

>sp|P31947|1433S\_HUMAN 14-3-3 protein sigma OS=Homo sapiens GN=SFN PE=1 SV=1

MERASLIQKAKLAEQAERYEDMAAFMKGAVEKGEELSCEERNLLSVAYKNVVGQRAAWR  
VLSSIEQKSNEEGSEEKGPEVREYREKVETELQGVCDTVLGLLDShLIKEAGDAESRVFY  
LKMKGDIYRYLAEVATGDDKKRIIDSARSAYQEAMDISKKEMPPTNPIRLGLALNFSVFH  
YEIANSPEEAISLAKTTFDEAMADLHTLSEDSYKDSTLIMQLLRDNLTLWTADNAGEEGG  
EAPQEPQS

>sp|P63104|1433Z\_HUMAN 14-3-3 protein zeta/delta OS=Homo sapiens GN=YWHAZ PE=1 SV=1

MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNVVGARRSSWR  
VVSSIEQKTEGAEEKQQMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKVFLK  
MKGDIYRYLAEVAAGDDKKGIVDQSQQAYQEAFFEISKKEMQPTHPIRLGLALNFSVFYFE  
ILNSPEKACSLAKTAFDEAIAELDTLSEESYKDSTLIMQLLRDNLTLWTSDTQGDEAEAG  
EGGEN

>sp|P18462|1A25\_HUMAN HLA class I histocompatibility antigen, A-25 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWRNTRNVKAHSQTDRESLRIALRYYNQSEDGSHTIQ  
RMYGCDVGPDRFLRGYQQDAYDGKDYIALNEDLRSWTAADMAAQITQRKWETAHEAEQW  
RAYLEGRCVEWLRRLYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWASVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLFAGAVVAAVMWRRKSSDRKGGSYSQAASSDSAQGSMSL  
TACKV

>sp|P30512|1A29\_HUMAN HLA class I histocompatibility antigen, A-29 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLALLLLGALALTQTWAGSHSMRYFTTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDLQTRNVKAQSQTDRANLGLTRGYYNQSEAGSHTIQ  
MMYGCHVGS DGRFLRGYRQDAYDGKDYIALNEDLRSWTAADMAAQITQRKWEAARVAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWASVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLFAGAVVAAVRWRRKSSDRKGGSYSQAASSDSAQGSMSL  
TACKV

>sp|P16189|1A31\_HUMAN HLA class I histocompatibility antigen, A-31 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLALLLLGALALTQTWAGSHSMRYFTTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQERPEYWDQETRNKAHSQIDRVDLGLTRGYYNQSEAGSHTIQ  
MMYGCDVGS DGRFLRGYQQDAYDGKDYIALNEDLRSWTAADMAAQITQRKWEAARVAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRTDPPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWASVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLFAGAVVAAVRWRRKSSDRKGGSYSQAASSDSAQGSMSL  
TACKV

>sp|P16190|1A33\_HUMAN HLA class I histocompatibility antigen, A-33 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=3

MAVMAPRTLALLLLGALALTQTWAGSHSMRYFTTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWRNTRNVKAHSQIDRVDLGLTRGYYNQSEAGSHTIQ  
MMYGCDVGS DGRFLRGYQQDAYDGKDYIALNEDLRSWTAADMAAQITQRKWEAARVAEQL

RAYLEGTCEWELRRHLENGKETLQRTDPPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWASVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLFAGAVVAAVRWRRKSSDRKGGSYSQAASSDSAQGSMSL  
TACKV

>sp|P30453|1A34\_HUMAN HLA class I histocompatibility antigen, A-34 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAIMAPRTLVLSSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDNRNTRKVKASQTDRVDLGLRGYYNQSESGHTIQ  
RMYGCDVGPDRFLRGYQQDAYDGKDYIALNEDLRSWTAADMAAQITQRKWETAHEAEQW  
RAYLEGTCEWELRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWASVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLFAGAVVAAVMWRRKSSDRKGGSYSQAASSDSAQGSMSL  
TACKV

>sp|P01891|1A68\_HUMAN HLA class I histocompatibility antigen, A-68 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=4

MAVMAPRTLVLSSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDNRNTRNVKASQTDRVDLGLRGYYNQSEAGSHTIQ  
MMYGCDVGSDFRFLRGYRQDAYDGKDYIALKEDLRSWTAADMAAQTTKHKWEAAHVAEQW  
RAYLEGTCEWELRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWAVVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLFAGAVITGAVVAAVMWRRKSSDRKGGSYSQAASSDSAQGSVSL  
TACKV

>sp|Q09160|1A80\_HUMAN HLA class I histocompatibility antigen, A-80 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAVMPRTLVLSSGALALTQTWAGSHSMRYFFTSVSRPGRGEPRFIAVGYVDDSQFVQF  
DSDAASQRMEPRAPWIEQEEPEYWDEETRNKKAHSQTNRANLGLRGYYNQSESGHTIQ  
IMYGCDVGSDFRFLRGYRQDAYDGKDYIALNEDLRSWTAADMAAQITKRKWEAARRAEQL  
RAYLEGECVDGLRRYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKQWAAVVVPSGKEKRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIIAGLVLLGAVIAGAVVAAVMWRRKSSVRKGGSYSQAASSDSAQGSVSL  
TACKV

>sp|P30461|1B13\_HUMAN HLA class I histocompatibility antigen, B-13 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MVRTAPRTLVLSSGALALTQTWAGSHSMRYFYTAMSRPGRGEPRFITVGYVDDTQFVRF  
DSDATSPRMAPRAPWIEQEGPEYWDRETQISKTNQTYRENLTALRYYNQSEAGSHTWQ  
TMYGCDLGPDRLLRGHNQLAYDGKDYIALNEDLSSWTAADTAAQITQLKWEAARVAEQL  
RAYLEGECVEWELRRYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKQWAAVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAAVMCRRKSSGGKGGSYSQAACSDSAQGSVSL  
TA

>sp|P03989|1B27\_HUMAN HLA class I histocompatibility antigen, B-27 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2

MVRTAPRTLVLSSGALALTQTWAGSHSMRYFHTSVSRPGRGEPRFITVGYVDDTLFVRF  
DSDAASPREPRAPWIEQEGPEYWDRETQICKAKAQTDREDLRTLRYYNQSEAGSHTLQ

MYGCDVGPGRLLRGYHQDAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGECVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRFTQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAAMCRRKSSGGKGGSYSQAACSDSAQGS DVSL  
TA

>sp|P30479|1B41\_HUMAN HLA class I histocompatibility antigen, B-41 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLSAALALTETWAGSHSMRYFHTAMSRPGRGEPRFITVGYVDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWDRETQISKTNQT YRESLRNLRGYYNQSEAGSHTWQ  
RMYGCDVGPGRLLRGHNQYAYDGKDYIALNEDLSWTAADTAAQITQRKWEAARVAEQD  
RAYLEGTCVEWLRRLYLENGKDTLERADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRFTQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAAMCRRKSSGGKGGSYSQAACSDSAQGS DVSL  
TA

>sp|P30481|1B44\_HUMAN HLA class I histocompatibility antigen, B-44 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFITVGYVDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWDRETQISKTNQT YRENLTALRYYNQSEAGSHIIQ  
RMYGCDVGPGRLLRGYDQDAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAARVAEQD  
RAYLEGLCVESLRRLYLENGKETLQRADPPKTHVTHHPISDHEVTLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRFTQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAAMCRRKSSGGKGGSYSQAACSDSAQGS DVSL  
TA

>sp|P78314|3BP2\_HUMAN SH3 domain-binding protein 2 OS=Homo sapiens GN=SH3BP2 PE=1 SV=2

MAAEEMHWPVPMKAIGAQNLLTMPGGVAKAGYLHKKGGTQLQLLKWPLRFVIIHKRCVYY  
FKSSTSASPQGAFSLSGYNRMRAAEETTSNNVFPFKIIHISKHRTWFFSASSEERKS  
WMALLRREIGHFHEKKDLPLDTS DSSSDTSFYGAVERPVDISLSPYPTDNEDYEHDD  
DSYLEPDSPEPGRLEDALMHPPAYPPPVPVTPRKPAFSDMPRAHSFTSKGPGPLPPPPP  
KHGLPDVGLAAEDSKRDPLCPRAAEP CPRVPATPRRMSDPLSTMTAPGLRKPPCFRES  
ASPSPEPWTPGHGACSTSSAAIMATATSRNCDKLKSFHLSPRGPPTSEPPPPVPANKPKFL  
KIAEEDPPREAAMPGLFVPPVAPRPPALKLPVPEAMARPAVLPREKPKQLPHLQRSPPDG  
QSFRSFSFEKPRQPSQADTGGDDSD EYKVPLPNSVFVNTESCEVERLFKATSPRGEP  
QDGLYCIRNSSTKSGKVLVWDETSNKVRNYRIFEKDSKFYLEGEVLFVSVGSMVEHYHT  
HVLPSHQSLLLRHPYGYTGPR

>sp|P11171|41\_HUMAN Protein 4.1 OS=Homo sapiens GN=EPB41 PE=1 SV=4

MTTEKSLVTEAENSHQKKEEGEEAINSGQEPQQEESCQTAAEGDNWCEQKLKASNGDT  
PTHEDLTKNKERTSESRLSRLFSFLKRPKSQVSEEEGKEVESDKEKGEGGQKEIEFGT  
SLDEEIIILKAPIAAPEPELKTDP SLDLHSLSSAETQPAQEELREDPDFEIKEGEGLECS  
KIEVKEESPQSKAETELKASQKPIRKHRNMHCKVSLDDTVYECVVEKHAKGDLLKRVC  
EHLNLEEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPWNFTFNVKFYPPDPAQLTE  
TRYYLCLQLRQDIVAGRLPCS FATLALLGSYTIQSELGDYDPELHGVDYVSDFKLAPNQT  
KELEEKVMELHKSYSRMTPAQADLEFLEN AKKLSMYGVDLHAKDLEGVDIILGVCSSGL  
LVYKDKLRINRFPWPVKLISYKRSSFFIKIRPGEQEYESTIGFKLPSYRAAKLWKVC  
VEHHTFFRLTSTD TIPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRAS

RSLDGAADVSDADRSRPTSAPAITQGQVAEGGVLDASAKKTVVPAQKETVKAEVKKED  
EPPEQAEPEPTEAWKVEKTHIEVTVPTSNGDQTQKLAEKTEDLIRMRKKKRERLDGENIY  
IRHSNLMLLEDLKSQEEIKKHHASISELKKNFMESVPEPRPSEWDKRLSTHSPFRTLIN  
GQIPTGEGPPLVKTQTVTISDNANAVKSEIPTKDVPIVHTETKTITYEAAQTDDNSGDLD  
PGVLLTAQTITSETPSSTTTTQITKTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKE  
AKEQHPDMSVTKVVVHQETEIAD

>sp|P41595|5HT2B\_HUMAN 5-hydroxytryptamine receptor 2B OS=Homo sapiens GN=HTR2B PE=1 SV=1  
MALSYRVSELQSTIPEHILQSTFVHVISSNWSGLQTESIPEEMKQIVEEQGNKLHWAALL  
ILMVIIPTIGGNTLVILAVSLEKKLQYATNYFLMSLAVADLLVGLFVMPIALLTIMFEAM  
WPLPLVLCPAWLFLDVLSTASIMHLCAISVDRYIAIKKPIQANQYNSRATAFIKITVVW  
LISIGIAIPVPIKGIETDVDPNNITCVLTKERFGDFMLFGSLAAFFTPLAIMIVTYFLT  
IHALQKKAYLVKNKPPQRLTWLTVSTVFQRDETPCSSPEKVAMLDGSRKDKALPNSGDET  
LMRRTSTIGKKSQTISNEQRASKVLGIVFFLFLMWCPFFITNITLVLCDSCNQTTLM  
LLEIFVWIGYVSSGVNPLVYTLFNKTRDAFGRYITCNYRATKSVKTLRKRSSKIYFRNP  
MAENSKFFKKHGIRNGINPAMYQSPMRLRSSTIQSSSIILLDTLLLTENEGDKTEEQVSY  
V

>sp|P28335|5HT2C\_HUMAN 5-hydroxytryptamine receptor 2C OS=Homo sapiens GN=HTR2C PE=1 SV=1  
MVNLRNAVHSFLVHLIGLLVWQCDISVSPVAAIVTDIFNTSDGGRFKFPDGVQNPALSI  
VIIIMTIGGNILVIMAVSMEKKLHNATNYFLMSLAIADMLVGLLVMPLSLLAILDYVW  
PLPRYLCPVWISLDVLSTASIMHLCAISLDRYVAIRNPIEHSRFSNRKAIMKIAIWA  
ISIGVSVPIPVIGLRDEEKVFVNNTTCVLNDPNFVLIGSFVAFFIPLTIMVITYCLTIYV  
LRRQALMLLHGHTTEPPGLSLDFLKCKRNTAEEENSANPNQDNARRRKKKERRPRGTM  
QAINNERKASKVLGIVFFVFLIMWCPFFITNLSVLCEKSCNQKLMEKLLNVFVWIGYVC  
SGINPLVYTLFNKIYRRAFSNYLRCNYKVEKKPPVRQIPRVAATALSGRELVNIYRHTN  
EPVIEKASDNEPGIEMQVENLELPVNPSSVVSERISSV

>sp|P46098|5HT3A\_HUMAN 5-hydroxytryptamine receptor 3A OS=Homo sapiens GN=HTR3A PE=1 SV=1  
MLLWVQQALLALLPTLLAQGEARRSRNTTRPALLRLSDYLLTNYRKGVRPVRDWRKPTT  
VSIDVIVYAILNVEKNQVLTYYIWYRQYWTDEFLQWNPEDFDNITKLSIPTDSIWVPDI  
LINEFVDVGKSPNIPYVYIRHQGEVQNYKPLQVVTACSLDIYNFPFDVQNCSLTFTSWLH  
TIQDINISLWRLPEKVKSDRSVFMNQGEWELLGVLPYFREFSMESSNYAEMKFYVIRR  
RPLFYVVSLLPSIFLMVMDIVGFYLPNSGERVSFKITLLLGYSVFLIIVSDTLPATAI  
GTPLIGVYFVVMALLVISLAETIFIVRLVHKQDLQQPVPAPLRLVLERIAWLLCLREQ  
STSQRPPATSQATKTDDCSAMGNHCSHMGPGQDFEKSPRDRCSPPPPPREASLAVCGLLQ  
ELSSIRQFLEKRDEIREVARDWLRVGSVLDKLLFHIYLLAVLAYSITLVMLWSIWQYA

>sp|Q70Z44|5HT3D\_HUMAN 5-hydroxytryptamine receptor 3D OS=Homo sapiens GN=HTR3D PE=1 SV=3  
MQKHSPGPPALALLSQSLTTGNGDTLIINCPGFGQHRVDPAAFQAVFDRKAIGPVTNYS  
VATHVNISFTLSAIWNCYSRIHTFNCHHARPWHNQFVQWNPDECGGIKKSGMTENLWLS  
DVFIEESVDQTPAGLMASMSIVKATSNTISQCGWSASANWTPSISPSMDRARAWRRMSRS  
FQIHHRFSFRTRREWLLGIQKRTIKVTVATNQYEQAIFHVAIRRRCRPSPYVNVFLVPS  
GILIAIDALSFYLPLESGNCAPFKMTVLLGYSVFLMMNDLLPATSTSSHASLVAPLALM  
QTPLPAGVYFALCLSLMVGSLLETIFITHLLHVATTQPLPLRWLHSLLLHCTGQGRCCP  
TAPQKGNKGPLTPHLPGVKEPEVSAGQMPGPGEAELTGGSEWTRAQREHEAQKQHSVE  
LWVQFSHAMDALLFRLYLLFMASSIITVICLWNT



>sp|Q969T7|5NT3B\_HUMAN 7-methylguanosine phosphate-specific 5'-nucleotidase OS=Homo sapiens GN=NT5C3B PE=1 SV=4

MAEEVSTLMKATVLMRQGRVQEIVGALRKGGGDLQVISDFDMLSRFAYNGKRCPSY  
NILDNSKIISEECKERLTALLHHYPIEIDPHRTVKEKLPHMVEWWTKAHNLLCQQKIQK  
FQIAQVVRESNAMLREGYKTFNTLYHNNIPLFIFSAGIGDILEEIIIRQMKVFHPNIHIV  
SNYMDFNEDGFLQGFKGQLIHTYNKNSSACENSGYFQQLEGKTNVILLGDSIGDLTMADG  
VPGVQNILKIGFLNDKVEERRERYMDSYDIVLEKDETLDVVNGLLQHILCQGVQLEMQGP

>sp|P49902|5NTC\_HUMAN Cytosolic purine 5'-nucleotidase OS=Homo sapiens GN=NT5C2 PE=1 SV=1

MSTSWSDRLQNAADMPANMDKHALKKYRREAYHRVFNRLAMEKIKCFGDMDYTLAVY  
KSPEYESLGFELTVERLVSIGYPQELLSFAYDSTFPTRGLVFDTLYGNLLKVDAYGNLLV  
CAHGFNFIRGPETREQYPNKFIRDDTERFYILNTLFNLPETYLLACLVDFFTNCPRYTS  
CETGFKDGDLFMSYRSMFQDVRDAVDWVHYKGLKEKTVENLEKYVVKDGKLPLLSRMK  
EVGKVFLATNSDYKYTDKIMTYLDFPHGPKPGSSHRPWQSYFDLILVDARKPLFFGEGT  
VLRQVDTKTGKLIKITYTGPLQHGIYVSGGSSDTICDLLGAKGKDILYIGDHIFGDILKS  
KKRQGWRTFLVIPELAQLHVWTDKSSLFEELQSLDIFLAELYKHLDSNNERPDISSIQ  
RRIKKVTHDMDCMCYGMMGSLFRSGSRQTLFASQVMRYADLYAASFINLLYYPFSYLFRAA  
HVLMPHESTVEHTHVDINEMESPLATRNRTSVDFKDTDYKRHQLTRSISEIKPPNLFPLA  
PQEITHCHDEDDDEEEEEEEEE

>sp|P21589|5NTD\_HUMAN 5'-nucleotidase OS=Homo sapiens GN=NT5E PE=1 SV=1

MCPRAARAPATLLLALGAVLWPAAGAWELTILHTNDVHSRLEQTSSESSKCVNASRCMGG  
VARLFTKVQQIRRAEPNVLLEDAGDQYQGTIWFVTVYKGAEVAHFMMNALRYDAMALGNHEF  
DNGVEGLIEPLLKEAKFPILSANIKAKGPLASQISGLYLPYKVLPGDEVVGVGYTSKE  
TPFLSNPGTNLVFEDEITALQPEVDKCLKTLNVNKIIALGHSGFEMDKLIAQKVRGVDVVV  
GGHSNTFLYTGNPPSKEVPAGKYPFIVTSDDGRKVPVVQAYAFGKYLGYLKIEFDERGNV  
ISSHGNPILLNSSIPEDPSIKADINKWKIKLDNYSTQELGKTIVYLDGSSQSCRFRECNM  
GNLICDAMINNNLRHTDEMFWNHVSMCILNGGGIRSPIDERNNGTITWENLA AVL PFGGT  
FDLVQLKGSTLKKAFEHSVHRYGQSTGEFLQVGGIHVVYDL SRKPGDRVVKLDVLCTKCR  
VPSYDPLKMDDEVYKVLNPNFLANGGDFQMIKDELLRHDSGDQDINVVSTYISKMKVIYP  
AVEGRIKFSTGSHCHGSFSLIFLSLWAVIFVLYQ

>sp|Q9NQ94|A1CF\_HUMAN APOBEC1 complementation factor OS=Homo sapiens GN=A1CF PE=1 SV=1

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDAAPPERGCEIFI  
GKLPRDLFEDELIPLCEKIGKIYEMRMMDFNGNNGYAFVTFSNKVEAKNAIKQLNNE  
IRNGRLLGVCASVDNCRFLVGGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRG  
FAFVEYESHRAAAMARRKLLPGRIQLWGHGIAVDWAEPEVEVDEDTMSSVKILYVRNML  
STSEEMIEKEFNKIPGAVERVKKIRDYAFVHFSNREDAVEAMKALNGKVLGDGSPIEVTL  
AKPVDKDSYVRYTRGTGGRGTMQLQGEYTYSLGQVYDPTTTYLGAPVFYAPQTYAAIPSLH  
FPATKGHLNRAIIRAPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYQVKGDKRED  
KLYDILPGMELTPMNPVTLKPQGIKLAPQILEEICQKNNWGQPVYQLHSAIGDQQRQLFL  
YKITIPALASQNPPIHPFTPPKLSAFVDEAKTYAAEYTLQTLGIPTDGGDGMATAAAAA  
TAFPGYAVPNATAPVSAAQLKQAVTLGQDLAAYTTYEVYPTFAVTARGDGYGTF

>sp|Q8WTS1|ABHD5\_HUMAN 1-acylglycerol-3-phosphate O-acyltransferase ABHD5 OS=Homo sapiens GN=ABHD5 PE=1 SV=1

MAEEEEVDSADTGERSGWL TWLPTWCPTSISHLKEAEEKMLKCVPTKYKKEPVRI SNG  
NKIWT LKFSHNISNKTPLVLLHGFGGGLGLWALNFGDLCTNRPVYAFDLLGFRSSRPRF

DSDAEEVENQFVESIEEWRCALGLDKMILLGHNLGGFLAAAYSLKYPSRVNHLILVEPWG  
FPERPDLDQDRPIPWWIRALGAALTPFNPLAGLRIAGPFGLSLVQRLRPDFKRKYSSMF  
EDDTVTEYIYHCNVQTPSGETA FNMTIPYGWAKRPMLQRIGKMHPDIPVSVIFGARSCI  
DGNSGTSIQSLRPHSYVKTIAILGAGHYVYADQPEEFNQVKEICD TVD

>sp|Q9UKU7|ACAD8\_HUMAN Isobutyryl-CoA dehydrogenase, mitochondrial OS=Homo sapiens  
GN=ACAD8 PE=1 SV=1

MLWSGCRRFGARLGLCPGGLRVLVQTGHRSLTSCIDPSMGLNEEQKEFQKVAFDFAAREM  
APNMAEWDQKELFPVDVMRKAQQLGFGGVYIQT DVGGSGLSRLDTSVIFEALATGCTSTT  
AYISIHNMCAWMIDSGFNEEQRHKFCPP LCTMEKFASYCLTEPGSGSDAASLLTSAKKQG  
DHYILNGSKAFISGAGESDIYVVMCRTGGPGPKGISCI VVEKGT PGLSFGKKEKKVWNS  
QPTRAVIFEDCAVPVANRIGSEGQGLIAVRGLNGGRINIASCSLGA AHASVILTRDHLN  
VRKQFGEPLASNQYLQFTLADMATRLVAARLMVRNA AVALQEERKDAVALCSMAKLFATD  
ECFAICNQALQMHGGYGYLKD YAVQQYVRDSRVHQILEGSNEVMRILISRSLLQE

>sp|Q9H845|ACAD9\_HUMAN Acyl-CoA dehydrogenase family member 9, mitochondrial OS=Homo sapiens  
GN=ACAD9 PE=1 SV=1

MSGCGLFLRTTAAARACRGLVVSTANRRLLRTSPPVRAFAKELFLGKIKKKEVFPFPEVS  
QDELNEINQFLGPVEKFFTEEVDSRKIDQEGKIPDETLEKLKSLGLFGLQVP E EYGG LGF  
SNTMYSRLGEIISMDGSITVTLAAHQAIGLKG IILAGTEEQKAKYLPKLASGEHIAAFCL  
TEPASGSDAASIRSRTLSEDKKHYILNGSKVWITNGGLANIFTVFAKTEVVDS DGSVKD  
KITAFIVERDFGGVTNGKPEDKLGIRGSNTCEVHFENTKIPVENILGEVGDGFKVAMN IL  
NSGRFSMSGSVVAGLLKRLIEMTA EYACTRKQFNKRLSEFGLIQEKFALMAQKAYVMESMT  
YLTAGMLDQPGFPDCSIEAAMVKVFSSEA AWCVSEALQILGGLGYTRDYPYERILRDTR  
ILLIFEGTNEILRM YIALTGLQHAGRILTTRIHELKQAKVSTVMDTVGRRLRDSLGR TVD  
LGLTGNHGVVHPSLADSANKFEENTYCFGR TVETLLLRFGKTIMEEQLVLKRVANILINL  
YGMTAVLSRASRSIRIGLRNHDHEVLLANTFCVEAYLQNLFSLSQLDKYAPENLDEQIKK  
VSQQILEKRAYICAHPLDRTC

>sp|Q8NC06|ACBD4\_HUMAN Acyl-CoA-binding domain-containing protein 4 OS=Homo sapiens  
GN=ACBD4 PE=1 SV=2

MGTEKESPEPDCQKQFQAAVSVIQNL PKNGSYRPSYEMLRFYSYKQATMGPCLVPRPG  
FWDPIGRYKWD A WNSLGKMSREEAMSAYITEMKLVAQKV IDTVPLGEVAEDMFGYFEPLY  
QVIPDMRPPETFLRRVTGWKEQV VNGDV GAVSEPPCLPKEPAPPSPESHSPRDL DSEVF  
CDSLEQLLEP LSSGQHLEESVIPGTAPCPPQKRGC GAARRGPRSWTCGCWGQFEHYRRA  
CRRCRRG CRAWRACGPLSSLT LSVRLE

>sp|Q5T8D3|ACBD5\_HUMAN Acyl-CoA-binding domain-containing protein 5 OS=Homo sapiens  
GN=ACBD5 PE=1 SV=1

MFQFHAGSWESWCCCLIPADRPWDRGQHWQLEMADTRSVHETRFEAAVKVIQSLPKNGS  
FQPTNEMMLKFYSFYKQATEGPCKLSRPGFWDPIGRYKWD A WSSLGDMTKEEAMIAYVEE  
MKKIIETMPMTEKVEELLRVIGPFYEIVEDKKSGRSSDITSVRLEKISKCLEDLGNVLTS  
TPNAKTVNGKAESSDSGA ESEEEEEAEVKGAEQSDNDKMMKKSADHKNLEVI VTNGYD  
KDG FVQDIQN DIHASSSLNGRSTEEVKPIDENLGQTGKSAVCIHQDINDDHVEDVTGIQH  
LTSDSDSEVYCD S MEQFGQEESLDSFTSNNGPFQYYLGGHSSQPMENSGFREDIQVPPGN  
GNIGNMQVVAVEGKGEVKHGGEDGRNNSGAPHREKRGGETDEFSNVRGRGRHMQHLSEG  
TKGRQVGSGGDGERWGS DRGSRGSLNEQIALVLMRLQEDMQNVLQRLQKLETLTALQAKS  
STSTLQTAPQPTSQRPSWPPFEMSPGVLTFAIIWPFIAQWL VYLYYQRRRRKLN

>sp|Q9BR61|ACBD6\_HUMAN Acyl-CoA-binding domain-containing protein 6 OS=Homo sapiens  
GN=ACBD6 PE=1 SV=1

MASSFLPAGAITGDSGGELSSGDDSGEVEFPHSPEIEETSCLAELFEKAAHLQGLIQVA  
SREQLLYLYARYKQVKVGNCTPKPSFFDFEGKQKWEAWKALGDSSPSQAMQEYIAVVKK  
LDPGWNPQIPEKKKEANTGFGGPVISSLYHEETIREEDKNIFDYCRENNIDHITKAIS  
KNVDVNVKDEEGRALLHWACDRGHKELVTVLLQHRADINCQDNEGQTALHYASACEFLDI  
VELLLQSGADPTLRDQDGLPEEVTGCKTVSLVLQRHTTGKA

>sp|Q5FVE4|ACBG2\_HUMAN Long-chain-fatty-acid--CoA ligase ACSBG2 OS=Homo sapiens GN=ACSBG2  
PE=1 SV=2

MTGTPKTQEGAKDLEVDMNKTEVTPRLWTTCDRGEVLLRLSKHGPGHETPMTIPEFFRES  
VNRFGTYPALASKNGKKWEILNFNQYYEACRKAASLIKGLERFHGVGILGFNSAEWFI  
TAVGAILAGGLCVGIYATNSAEVCQYVITHAKVNILLVENDQQQLQKILSIPQSSLEPLKA  
IIQYRLPMKKNNNLYSWDDFMELGRSIPDTQLEQVIESQKANQCAVLIYTSGTTGIPKGV  
MLSHDNITWIAGAVTKDFKLTDKHETVVSYLPLSHIAAQMMDIWVPIKIGALTYFAQADA  
LKGTLVSTLKEVKPTVFIGVPQIWEKIHVMVKNSAKSMGLKKKAFVWARNIGFKVNSKK  
MLGKYNTPVSYRMAKTLVFSKVKTSGLDHCHSFISGTAPLNQETAEFFLSLDIPIGELY  
GLSESSGPHTISNQNNYRLSCGKILTGCKNMLFQQNKDGIGEICLWGRHIFMGYLESET  
ETTEAIDDEGLHSGDLGQLDGLGFLYVTGHIKEILITAGGENVPPIPVETLVKKKIPII  
SNAMLVGDKLKFLSMLLTLKCEMNQMSGEPLDKLNFEAINFCRGLGSQASTVTEIVKQQD  
PLVYKAIQGGINAVNQEAMNNAQRIEKWVILEKDFSIIYGGEELGPMMLKLRHFVAQKYKKQ  
IDHMYH

>sp|P07108|ACBP\_HUMAN Acyl-CoA-binding protein OS=Homo sapiens GN=DBI PE=1 SV=2  
MSQAEFEKAAEEVRHLKTKPSDEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDWN  
ELKGTSKEDAMKAYINKVEELKKKYGI

>sp|P02708|ACHA\_HUMAN Acetylcholine receptor subunit alpha OS=Homo sapiens GN=CHRNA1 PE=1  
SV=2

MEPWPLLLLSLCSAGLVLGSEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQL  
INVDEVNQIVTTNVRLLKQGMVDLPRPSCVTLGVPFLFSLQNEQWVDYNLKNPDDYGGV  
KKIHIPSEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEIIIVTHF  
PFDEQNCSMKLGTWYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSVTYSCCPD  
TPYLDITYHFVMQRLPLYFIVNVIIPCLLFSFLTGLVFYLPDTSGEKMTLSISVLLSLTV  
FLLVIVELIPSTSSAVPLIGKMYLFTMVFVIASIIITVIVINTHHRSPSTHMPNWRKV  
FIDTIPNIMFFSTMKRPSREKQDKKIFTEDIDISDISGKPGPPPMGFHSPLIKHPEVKSA  
IEGIKYIAETMKSDQESNNAAEWKYVAMVMDHILLGVFMLVCIIGTLAVFAGRLIELNQ  
QG

>sp|Q9UKV3|ACINU\_HUMAN Apoptotic chromatin condensation inducer in the nucleus OS=Homo  
sapiens GN=ACIN1 PE=1 SV=2

MWRRKHPRTSGGTRGVLSGNRGVEYSGRGHLGTFEGRWRKLPKMPEAVGTDPSRSRKMA  
ELEEVTLDGKPLQALRVTDLKAALQRLAKSGQKSALVKRLKGALMLENLQKHSTPHAA  
FQPN SQIGEEMSQNSFIKQYLEKQQELLRQRLEREAREAAELEEASA ESEDEMIHPEGVA  
SLLPPDFQSSLERPELELSRHSPRKSSSISEEKGSDDEKPRKGERRSSRVRQARA AKLS  
EGSQPAEEEEEDQETPSRNLVRADRNLKTEEEEEEEEEEEEEDEEEEGDDEGQKSREAPI  
LKEFKEEGEEI PRVKPEEMMDERPKTRSQE QEVLERGGRFTRSQEEARKSHLARQQQEKE  
MKTTSPLEEEEREIKSSQGLKEKSKSPSPPRLTEDRKASLVALPEQTASEEETPPPLLT

KEASSPPHPQLHSEEEIEPMEGPAPAVLIQLSPNTDADTRELLVSQHTVQLVGGLSPL  
SSPSDTKAESPAEKVPEESVLPLVQKSTLADYSAQKDLEPESDRSAQPLPLKIEELALAK  
GITEECLKQPSLEQKEGRRASHTLLPSHRLKQSADSSSSSSSSSSSSSSSSSSSSSSSRSPDSSG  
SRSHSPLRSKQRDVAQARTHANPRGRPKMGSRSSTSESRSRSRSRSASSNSRKSLSPGV  
SRDSSTSYTETKDPSSGQEVATPPVPQLQVCEPKERTSTSSSSVQARRLSQPESAekhvt  
QRLQPERGSPKKCEAAEAEPAAATQPQTSETQTSHLPESERIHHTVEEKEEVTMDTSENr  
PENDVPEPPMPIADQVSNDDRPEGSVEDEEKKESLPKSFKRKISVVSATKGVPAGNSDT  
EGGQPGRRRWGASTATTQKKPSISITTESLKSLLIPDIKPLAGQEAVIDLHADDRISED  
ETERNGDDGTHDKGLKICRTVTQVPAEGQENGQREEEEEKEPEAEPVPPQVSVEVAL  
PPPAEHEVKVTLGDTLTRRSISQKSGVSITIDDPVRTAQVPSPPRGKISNIVHISNLV  
RPFTLGQLKELLGRTGLVEEAFWIDKIKSHCFVTYSTVEEAVATRTALHGKWPQSNPK  
FLCADAQEDELHYHRLGLVDRPSETKTEEQGIPLPLPPPPPPVQPPQHPRAEQREQER  
AVREQWAEREREMERRERTRSEREWDRDKVREGPRSRSRSDRRRKERAKSKEKKSEKKE  
KAQEPPAKLLDDLFRKTKAAPCIYWLPLTDSQIVQKEAERAERAKEREKRRKEEEEEQ  
KEREKAERERNRQLEREKRREHSRERDRERERERERDRGDRDRDRERDRERDRDRD  
TKRHSRSRSRSTPVRDRGRR

>sp|096019|ACL6A\_HUMAN Actin-like protein 6A OS=Homo sapiens GN=ACTL6A PE=1 SV=1

MSGGVYGGDEVGALVFDIGSYTVRAGYAGEDCPKVDFTAIQGMVVERDDGSTLMEIDGDK  
GKQGGPTYIIDTNALRVPRENMEAISPLKNGMVEDWDSFQAILDHTYKMHVKSEASLHPV  
LMSEAPWNTRAKREKLTLMFEHYNIPAFFLCKTAVLTAFANGRSTGLILDSGATHTAI  
PVHDGYVLQQGIVKSPLAGDFITMQCRELFQEMNIELVPPYMIASKEAVREGSPANWKRK  
EKLPQVTRSWHNYMCNCVIQDFQASVLQVSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAE  
RLKIPEGLFDPSNVKGLSGNTMLGVSHVVTSSVGMCDIDIRPGLYGSVIVAGGNTLIQSF  
TDRLNRELSQKTPPSMRLKLIANNTTVERRFSSWIGGSILASLGTQQMWISKQEYEEGG  
KQCVERKCP

>sp|Q8WYK0|AC012\_HUMAN Acyl-coenzyme A thioesterase 12 OS=Homo sapiens GN=ACOT12 PE=1 SV=1

MERPAPGEVMSQAIQPAHATARGELSAGQLLKWIDTTACLAAEKHAGVSCVTASVDDIQ  
FEETARVGQVITIKAVTRAFSTSMESISIKVMQDMLTGIEKLVSFAFSTFVAKPVGKEK  
IHLKPVTLLTEQDHVEHNLAERRKVRLQHEDTFNNLMKESKFDLLIFDEEEGAVSTRG  
TSVQSIELVLPphanHHGNTFGGQIMAWMETVATISASRLCWAHPFLKSVD MFKFRGPST  
VGDRLVFTAIVNNTFTQCEVGVVVEAFDCQEWAEGRGRHINSAFLIYNAADDKENLITF  
PRIQPISKDDFRRYRGAIARKRIRLGRKYVISHKEEVPLCIHWDISKQASLSDSNVEALK  
KLAARKGWEVTSTVEKIKIYTL EEHDVLSVWVEKHVGSPAHLAYRLSDFTKRPLWDPHF  
VSCEVIDWVSEDDQLYHITCPI LNDDKPKDLVVLVSRRKPLKDNTYTVAVKSVILPSVP  
PSPQYIRSEIICAGFLIHAIDNSNCIVSYFNHMSASILPYFAGNLGGWSKSIEETAASCI  
QFLENPPDDGFVSTF

>sp|Q99424|ACOX2\_HUMAN Peroxisomal acyl-coenzyme A oxidase 2 OS=Homo sapiens GN=ACOX2 PE=1 SV=1

MGSPVHRVSLGDTWSRQMHPDIESERYMQSFDVERLTNILDGGAQNTALRRKVESIIHSY  
PEFSCKDNYFMTQNERYKAAMRRAFHIRLIARRLGWLEDGRELGYAYRALSGDVALNIHR  
VFVRALRSLGSEEQIAKWDPLCKNIQIIATYAQTELGHGTYLQGLETEATYDAATQEFVI  
HSPTLTATKWWPGDLGRSATHALVQAQLICSGARRGMHAFIVPIRSLQDHTPLPGIIIGD  
IGPKMDFDQTDNGFLQLNHVRVPRENMLSRFAQVLPDGTYYVKGTAQSNYLPVVVRVEL

LSGEILPILQKACVIAMRYSVIRRQSRLRPSDPEAKVLDYQTQQKLFQQLAISYAFHFL  
AVSLLEFFQHSYTAILNQDFSFLPELHALSTGMKAMMSEFCTQGAEMCRRACGGHGYSKL  
SGLPSLVTKLSASCTYEGENTVLYLQVARFLVKSYLQTMSPGSTPQRSLSPSVAYLTAP  
DLARCPAQRAADFLCPELYTTAWAHVAVRLIKDSVQHLQTLTQSGADQHEAWNQTTVIHL  
QAAKVHCYYVTVKGFTEALEKLENEPAIQQVLKRLCDLHAIHGILTNSGDFLHDAFLSGA  
QVDMARTAYLDLLRLIRKDAILLTDAFDFTDQCLNSALGCYDGNVYERLFQWAQKSPTNT  
QENPAYEEYIRPLLQSWRSKL

>sp|O15254|ACOX3\_HUMAN Peroxisomal acyl-coenzyme A oxidase 3 OS=Homo sapiens GN=ACOX3  
PE=1 SV=2

MASTVEGGDTALLPEFPRGPLDAYRARASFSWKELALFTEGEGMLRFKKTIFSALENDPL  
FARSPGADLSLEKYRELNFLRCKRIFEYDFLSVEDMFKSPLKVPALIQCLGMYDSSLA  
AKYLLHSLVFGSAVYSSGSRHLTYIQKIFRMEIFGCFALTELSHGSNTKAIRTTAHYDPAT  
EEFI IHSPDFEAAKFVWGNMGKTATHAVVFAKLCVPGDQCHLHPFIVQIRDPKTLLPMP  
GVMVGDIGKKLGQNLNDFGAMFHKVRVPRQSLLNRMGDVTPEGTYSVPFKDVRQRF  
GASLGSLSSGRVSIIVSLAILNLKLAVAIALRFSATRRQFGPTEEEEIPVLEYPMQWRLLPYL  
AAVYALDHFSKSLFLDLVELQRGLASGDRSARQAEIGREIHALASASKPLASWTTQGGIQ  
ECEACGGHGYLAMNRLGVLRRDNDPNCTYEGDNNILLQQTSNYLLGLLAHQVHDGACFR  
SPLKSVDFLDAYPGILDQKFEVSSVADCLDSAVALAAYKWLVCYLLRETYQKLNQEKRS  
GSSDFEARNKCQVSHGRPLALAFVELTVVQRFHEHVHQPSVPPSLRAVLGRLSALYALWSL  
SRHAALLYRGGYFSGEQAGEVLES AVLALCSQLKDDAVALVDVIAPPDFVLDSPIGRADG  
ELYKNLWGAVLQESKVLERASWWPEFSVNKPVI GSKLSKL

>sp|P45381|ACY2\_HUMAN Aspartoacylase OS=Homo sapiens GN=ASPA PE=1 SV=1

MTSCHIAEEHIQKVAIFGGTHGNELTGVFLVKHWLENGAEIQRGTGLEVKPFITNPRAVKK  
CTRYIDCDLNRIFDLENLGKKMSEDLPEVRRRAQEIHLFGPKDSEDSYDIIFDLHNTTS  
NMGCTLILED SRNFLIQMFHYIKTSLAPLPCYVYLIEHPSLKYATTRSIAKYPVGIEVG  
PQPQGVLRADILDQMRMKIKHALDFIHHFNEGKEFPFCAIEVYKII EKVDYPRDENG  
EIAAIIHPNLQDQDWKPLHPGDPMFLTLDGKTIPLGGDCTVYPVFNAAAYYEKKEAFATTK  
LTLNAKSIRCLH

>sp|Q96HD9|ACY3\_HUMAN N-acyl-aromatic-L-amino acid amidohydrolase (carboxylate-forming)  
OS=Homo sapiens GN=ACY3 PE=1 SV=1

MCSLPVPREPLRRVAVTGGTHGNEMSGVYLARHWLHAPAE LQRASFSAPVLANPAATSG  
CRRYVDHDLNRTFTSSFLNSRPTDDPYEVTRARELNQLLGPKASGQAFDFVLDLHNTTA  
NMGTCIAKSSHEVFAMHLCRHLQLQYPELSCQVFLYQRSGEESYNLDSVAKNGLGLELG  
PQPQGVLRADIFSRMRTL VATVLD FIELFNQGTAFPAFEMEAYRPVGVVDFPRTEAGHLA  
GTVHPQLQDRDFQPLQPGAPIFQMFSGEDLLYEGESTVYPVFINEAAYYEKGVAFVQTEK  
FTFTVPAMPALTPAPSPAS

>sp|O14672|ADA10\_HUMAN Disintegrin and metalloproteinase domain-containing protein 10  
OS=Homo sapiens GN=ADAM10 PE=1 SV=1

MVLLRVLILLLSWAAGMGQYGNPLNKYIRHYEGLSYNVDSLHQKHQRAKRAVSHEDQFL  
RLDFHAHGRHFNLRMKRDTSLFSEDFKVETSNKVLDDYDTSHIYTGHIYGEESFSHG  
SVIDGRFEGFIQTRGGTFYVEPAERYIKDRTLPHFSVIYHEDDINYPHKYGPQGGCADHSVFE  
RMRKYQMTGVEEVTQIPQEEHAANGPELLRKKRTTSAEKNTCQLYIQTDHLFFKYGTRE  
AVIAQISSHVKAIDTIYQTTDFSGIRNISFMVKRIRINTTADEKDPTNPFRFPNIGVEKF  
LELNSEQNHDYCLAYVFTDRDFDDGVLGLAWVGAPSGSSGGICEKSKLYSDGKKKSLNT

GIITVQNYGSHVPPKVSHITFAHEVGHNFSGPHDSGTECTPGESKNLGQKENGNYIMYAR  
ATSGDKLNNNFSLCSIRNISQVLEKKRNCFVESGQPICNGMVEQGEECDGYSQCK  
DECCFDANQPEGRKCKLKPGKQCSQGPCCTAQCAFKSKSEKCRDDSDCAREGICNGFT  
ALCPASDPKPNFTDCNRHTQVCINGQCAGSICEKYGLEECTASSDGKDDKELCHVCCMK  
KMDPSTCASTGQSVQSRHFSGRITITLQPGSPCNDFRGYCDVFMRCRLVDADGPLARLKKA  
IFSPELYENIAEWIVAHWWAVLLMGIALIMLMAGFIKICSVHTPSSNPKLPPPKPLPGTL  
KRRRPPQPIQQPQRQRPRESYQMGHMR

>sp|043506|ADA20\_HUMAN Disintegrin and metalloproteinase domain-containing protein 20  
OS=Homo sapiens GN=ADAM20 PE=2 SV=2

MAVGEPLVHIRVTLLLLWFGMFLSISGHSQARPSQYFTSPEVVIPLKVISRGRGAKAPGW  
LSYSLRFGGQRYIVHMRVNKLLFAAHLPVFTYTEQHALLQDQPFIQDDCYHHGYVEGVPE  
SLVALSTCSGGFLGMLQINDLVEIKPISVSATFEHLVYKIDSDDTQFPPMRCGLTEEKI  
AHQMELQLSYNFTLKQSSFGVWWTHQRFVELVVVDNIRYLFSSNATTVQHEVFNVNVI  
VDSFYHPLEVDVILTGDITWASNPLPTSGDLNVLDFSIWKNNYNNLNLQHDVAHLFI  
KDTQGMKLGVAAYVKGICQNPFTGVDVFEDNRLVVFAITLGHELGHNLGMQHDTQWCVCE  
LQWCIMHAYRKVTTKFSNCSYAQYWDSTISSGLCIQPPYPGNIIFRLKYCGNLVVEEGEE  
CDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKFLPSGTLCRQQVGECDLPEWCNG  
TSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEIFGQDARSASQSCYQEIINTQGNR  
FGHCGIVGTTYVKCWTPDIMCGRVQCENGVIPNLIHSTVQQFHLNDTTCWGTDYHLGM  
AIPDIGEVKDGTVCGPEKICIRKKCASMVHLSQACQPKTCNMRGICNNKQHCHCNHEWAP  
PYCKDKGYGGSADSGPPPKNMEGLNVMGKLRYSLLCLLPLVAFLLFCLHVLFFKKRTKS  
KEDEEG

>sp|075077|ADA23\_HUMAN Disintegrin and metalloproteinase domain-containing protein 23  
OS=Homo sapiens GN=ADAM23 PE=1 SV=1

MKPPGSSSRQPPLAGCSLAGASCPQRGPAASAPARTPPCRLLLVLPLLAASS  
RPRAWGAAAPSAPHWNETAEKNLGVLADEDNTLQQNSSNISYSNAMQKEITLPSRLIYY  
INQDSESPYHVLDTKARHQKHNKAVHLAQASFQIEAFGSKFILDILNGLLSSDYVEI  
HYENGKPKQYSGGEGHCYHGSIRGVKDSKVALSTCNGLHGMFEDDTFVYMIPELELVHDE  
KSTGRPHIIQKTLAQYQSKQMKNLTMERGDQWPFLSELQWLKRRKRAVNPSRGIFEEMKY  
LELMIVNDHKTYKKHRSSHAHTNNFAKSVVNLVDSIYKEQLNTRVVLVAVETWTEKDQID  
ITTPNPVQMLHEFSKYRQRIKQHADAHLISRVTFHVKRSSLYFGGVCSTRGVGVNEYG  
LPMAVAQVLSQSLAQLGIQWEPSSRKPKCDCTESWGGCIMEETGVSHSRKFSKCSILEY  
RDFLQRGGGACLFNRPTKLFEPTECGNGYVEAGEECDGCFHVECYGLCCKKCSLSNGAHC  
SDGPCCNNTSCLFQPRGYECRAVNECDITEYCTGDSGQCPPNLHKQDGYACNQNGRCY  
NGECKTRDNQCQYIWGTAAGSDKFCYEKLNTEGTEKGNCCKGDRWIQCSKHDVFCGFL  
LCTNLTRAPRIGQLQGEIIPTSFYHQGRVIDCSGAHVVLDDDTDVGYVEDGTCPGSPMMC  
LDRKCLQIQALNMSSCPLDSKGKVCSGHGVCSNEATCICDFTWAGTDCSIRDPVRNLHPP  
KDEGPKGPSATNLIIGSIAGAILVAAIVLGGTGWGFKNVKKRRFDPTQQGPI

>sp|Q9UKF5|ADA29\_HUMAN Disintegrin and metalloproteinase domain-containing protein 29  
OS=Homo sapiens GN=ADAM29 PE=1 SV=3

MKMLLLHCLGVFLSCSGHIQDEHPQYHSPPDVVIPVRITGTTRGMTTPGWLSYILPFGG  
QKHI IHIKVKLLFSKHLPVFTYTDQGAILEDQPFVQNNCYHHGYVEGDPESLVSLSTCF  
GGFQGILQINDFAYEIKPLAFSTTFEHLVYKMDSEEKQFSTMRSGFMQNEITCRMEFEEI  
DNSTQKQSSYVGWWIHFRIVEIVVIDNYLYIRYERNSKILLEDLYIVNIVDSILDVIG

VKVLFLGLEIWTNKNLIVDDVRKSVHLYCKWSENITPRMQHDTSHLFTTLGLRGLSGI  
GAFRGMCTPHRSCAIVTFMKNKLTGTFSAIAVAHHLGHNLMNHDDETCRCSQPRCIMHEGN  
PPITKFSNCSYGDWFYETVERTKCLLETVHTKIDFNVKRCNGNVVEEGEECDGPKHCA  
KDPCCLSNCTLDTGSTCAFLCKCKFLPSGKVCRCVNECDLPEWCNGTSHKCPDDFY  
VEDGIPCKERGYCYEKSCHDRNEQCRRIFGAGANTASETCYKELNTLGDRVGHCGIKNAT  
YIKCNISDVQCGRIQCENVTEIPNMSDHTTVHWFNDIMCWSTDYHLGMKGPDIGEVKD  
GTECGIDHICHRHCVHITILSNCSPAFCNKRKICNNKHHCHCNLWDPPNCLIKGYGG  
SVDSGPPPKRKKKKFCYLCILLIIVLFILLCLYRLCKKSKPIKKQQDVQTPSAKEEEK  
IQRRPHELPPQSQPWVMPSSQSPPVTPSQSHQVMPSSQSPPVTPSQSQPRVMPSSQSPP  
VMPSSQSHPLTPSQSQPPVTPSQRQPQLMPSSQSPPVTPS

>sp|P08913|ADA2A\_HUMAN Alpha-2A adrenergic receptor OS=Homo sapiens GN=ADRA2A PE=1 SV=3  
MGSLLQPDAGNASWNGTEAPGGGARATPYSLQVTLTLVCLAGLLMLLTVFGNVLVIIAVFT  
SRALKAPQNLFLVSLASADILVATLVIPFSLANEVMGYWYFGKAWCEIYLALDVLFTSS  
IVHLCAISLDYWSITQAIENLKRTPRRIKAIITVWVISAVISFPPLISIEKKGGGGG  
PQPAEPRCEINDQWYVISSCIGSFFAPCLIMILVYVRIYQIAKRRTVPSSRRGPDAVA  
APPGGTERRPNGLGPERSAGPGGAEEPLPTQLNGAPGEPAPAGPRDTDALDLEESSSSD  
HAERPPGPRRPERGPRGKGKARASQVKPGDSLPRRGPGATGIGTPAAGPGEERVGAAKAS  
RWRGRQNREKRTFVLAVVIGVFVVCWFPPFFTYTLTAVGCSVPRTLKFFFWFGYCNS  
LNPVIYTFNHFRRFAFKKILCRGDRKRIV

>sp|P18089|ADA2B\_HUMAN Alpha-2B adrenergic receptor OS=Homo sapiens GN=ADRA2B PE=1 SV=3  
MDHQDPYSVQATAIAAAITFLILFTIFGNALVILAVLTSRSLRAPQNLFLVSLAAADIL  
VATLIIPFSLANELLYWYFRRTWCEVYLALDVLFTSSIVHLCAISLDYWAVSRALEY  
NSKRTPRRIKCIILTVLIAAIVSLPPLIYKGDQGPQPRGRPQCKLNQEAAYILASSIGS  
FFAPCLIMILVYLRIYLIAKRSNRRGPRAKGGPGQGEGSKQPRPDHGGALASAKLPALASV  
ASAREVNGHKSSTGEKEEGETPEDTGTRALPPSWAALPNSGQGQKEGVCASPEDAEAAA  
EEEEEECEPQAVPVPASACSPPLQQPQGSRLATLRGQVLLGRGVGAIGGQWRRRAQL  
TREKRFTFVLAVVIGVFVLCWFPPFFSYSLGAICPKHCKVPHGLFQFFFWIGYCNSLNP  
VIYTFNHFRRFAFRILCRPWTQTAW

>sp|Q9UKF2|ADA30\_HUMAN Disintegrin and metalloproteinase domain-containing protein 30  
OS=Homo sapiens GN=ADAM30 PE=1 SV=2  
MRSVQIFLSQCRLLLLLVPTMLKSLGEDVIFHPEGEFDSYEVTIPEKLSFRGEVQGVVS  
PVSYLLQLKGKHLHLWPKRLLPRHLRVFSFTEHGELLEHPYIPKDCNYMGSVKESL  
DSKATISTCMGGLRGVFNIDAKHYQIEPLKASPSFEHVYLLKKEQFGNQVCGLSDDDEIE  
WQMAPYENKARLRDFPGSYKHPKYLELILLFDQSRVRFVNNLSQVIHDAILLTGIMDTY  
FQDVRMRIHLKALEVWTFNKRIRVGYPELAEVLGRFVIYKKSVLNARLSSDWAHLYLQRK  
YNDALAWSFGKVCSEYAGSVSTLLDTNILAPATWSAHELGHAVGMSHDEQYCQCRGLN  
CIMSGRTGFSNCSYISFFKHISGATCLNNIPGLGYVLKRCGNKIVEDNEECDGSGTEE  
CQKDRCCQSNCKLQPGANCSIGLCCHDCRFRPSGYVCRQEGNECDLAEYCDGNSSSCPND  
VYKQDGTPTCKYEGRCFRKGCRRYMQQSIFGPDAMEAPSECYDAVNLIQDQFGNCEITG  
IRNFKKCESANSICGRLQCINVTIPDLPEHTTIIISTHLQAENLMCWGTGYHLSMKPMGI  
PDLGMINDGTSCGEGRVCFKKNVNSVQLQFDCLPEKCNTRGVCNNRKNCHCMYGWAPPF  
CEEVGYGGSIDSGPPGLLRGAIPSSIWVSIIMFRLILLILSVVFVFRQVIGNHLKPKQ  
EKMPLSKAKTEQESKTKTVQESKTKTGQEESEAKTGQESKAKTGQESKANIESKRP  
KAKSVKKQKK

>sp|Q9BZ11|ADA33\_HUMAN Disintegrin and metalloproteinase domain-containing protein 33  
OS=Homo sapiens GN=ADAM33 PE=1 SV=2

MGWRPRRARGTPLLLLLLLLLLWPVPGAGVLQGHIPGQPVTPHWVLDGQPWRTVSLEEPV  
SKPDMGLVALEAEGQELLLLEKHNHLLAPGYIETHYGPDGQPVVLAPNHTDHCHYQGRV  
RGFPDSWVVLCTCSGMSGLITLSRNASYLLRPWPPRGSKDFSTHEIFRMEQLLTWKGTCG  
HRDPGNKAGMTSLPGGPQSRGRREARRTRKYLELYIVADHTLFLTRHRNLNHTKQRLLEV  
ANYVDQLLRTLDIQVALTGLEWTERDRSRVTQDANATLWAFQWRRGLWAQRPHDSAQL  
LTGRAFGATVGLAPVEGMCRAESSGGVSTDHSELPIGAAATMAHEIGHSLGLSHDPDGC  
CVEAAAESGGCVMAAATGHPFPRVFSACSRRLRAFFRKGGGACLSNAPDGPLVPPALC  
GNGFVEAGEECDGPGQECDLCCFAHNCSLRPGAQCAHGDCCVRCLKPAGALCRQAMG  
DCDLPEFCTGTSSHCPPDVYLLDGSPCARGSGYCWGACPTLEQQCQQLWGP GSHPAPEA  
CFQVNSAGDAHGNCQGQDSEGHFLPCAGRDALCGKLQCQGGKPSLLAPHMVPVDSTVHLD  
GQEVTCRGALALPSAQLDLLGLGLVEPGTQCGPRMVCQSRRCRKNAFQELQRCLTACHSH  
GVCNSNHNCHCAPGWAPPFCDKPGFGGSMDSGPVQAENHDTFLLAMLLSVLLPLLPAGL  
AWCCYRLPGAHLQRCSWGCRRDPACSGPKDGPHRDHPLGGVHPMELGPTATGQPWPLDPE  
NSHEPSSHPEKPLPAVSPDPQADQVQMPSCLW

>sp|Q6DHV7|ADAL\_HUMAN Adenosine deaminase-like protein OS=Homo sapiens GN=ADAL PE=2 SV=2

MIEAEEQQPCKTDFYSELPKVELHAHLNGS ISSHTMKKLIAQKPDKIHDQMTVIDKGKK  
RTLEECFQMFQTIHQLTSSPEDILMVT KDVIKEFADDGVKYLELRSTPRRENATGMTKKT  
YVESILEGIKQSKQENLDIDVRYLIAVDRRGGLVAKETVKLAEEFFLSTEGTVLGLDLS  
GDPTVGQAKDFLEPLLEAKKAGLKLALHLSEIPNKKKETQILLDLLPDRIGHGTFLNSGE  
GGSLDLVDFVRQHRIPLELCLTSNVKSQTVPSYDQHHFGFWYSIAHPSVICTDDKGVFAT  
HLSQEYQLAAETFNLTQSQVWDLSEYINIFASDSTRSELRKKWNHLKPRVLHI

>sp|Q13443|ADAM9\_HUMAN Disintegrin and metalloproteinase domain-containing protein 9  
OS=Homo sapiens GN=ADAM9 PE=1 SV=1

MSGARFPGTGLRVRWLLLLGLVGPVLGAARPGFQQTSHLSSYEIITPWRLTRERREAPR  
PYSKQVSYVIAEGKEHIIHLERNKDLLPEDFVVYTYNKEGTLITDHPNIQNHCHYRGYV  
EGVHNSSIALSDCFGLRGLLHLENASYGIEPLQNSSHFEHIIYRMDDVYKEPLKCGVSNK  
DIEKETAKDEEEPPSMTQLRRRRRAVLPPQTRYVELFIVVDKERYDMMGRNQTA VREEMI  
LLANYLDSMYIMLNIRIVLVGLEIWTNGNLINIVGGAGDVLGNFVQWREKFLITRRRHDS  
AQLVLKKFGGTTAGMAFVGTVC SRSHAGGINVFGQITVETFASIVAHELGHNLGMNHDDG  
RDCSCGAKSCIMNSGASGRNFSSCAEDFEKLT LNKGGNCLLNIPKPDEAYSAPSCGNK  
LVDAGEECDGTPKECELDPCCEGSTCKLKSFAECAYGDCCKDCRFLPGGTLCRGKTSEC  
DVPEYCNGSSQFCQPDVFIQNGYPCQNNKAYCYNGMCQYYDAQCQVIFGSKAKAAPKDCF  
IEVNSKGDRFGNCGFSGNEYKKCATGNALCGKLQ CENVQEIPVFGIVPAIIQTPSRGTKC  
WGVDFQLGSDVPDPMVNEGKCGAGKICRNFQCV DASVLNYDCDVQKKCHGHGVCNSNK  
NHCENGWAPPNCETKGYGGSVDSGPTYNEMNTALRDGLLVFFFLIVPLIVCAIFIFIKR  
DQLWRSYFRKKRSQTYESDGKNQANPSRQPGSVPRHVSPVTPPREVPIYANRFAVPTYAA  
KQPQQFPSRPPPPQPKVSSQGNLIPARPAPAPPLYSSLT

>sp|O75689|ADAP1\_HUMAN Arf-GAP with dual PH domain-containing protein 1 OS=Homo sapiens  
GN=ADAP1 PE=1 SV=2

MAKERRRAVLELLQRPGNARCADCGAPDPDWASYTLGVFICLSCSGIHRNIPQVSKVKS  
RLDAWEEAQVEFMASHGNDAAARARFESKVP SFYYRPTPSDCQLLREQWIRAKYERQEFY  
PEKQEPYSAGYREGFLWKRGRDNGQFLSRKFVLTEREGALKYFNRNDAKEPKAVMKIEHL



NATFQPAKIGHPHGLQVITYLKDNSTRNIFIYHEDGKEIVDFNALRAARFHYLQVAFPGA  
GDADLVPKLSRNYLKEGYMEKTGPKQTEGFRKRWFTMDRRRLMYFKDPLDAFARGEVFIG  
SKESGYTVLHGFPPSTQGHWHPHGITIVTPDRKFLFACETESDQREWVAAFQKAVDRPML  
PQEYAVEAHFKHKP

>sp|Q96EY9|ADAT3\_HUMAN Probable inactive tRNA-specific adenosine deaminase-like protein  
3 OS=Homo sapiens GN=ADAT3 PE=1 SV=1

MEPAPGLVEQPKCLEAGSPEPEPAPWQALPVLSEKQSGDVELVLAYAAPVLDKRQTSRLL  
KEVSALHPLPAQPHLKRVPRSDAGSPHALEMLLCLAGPASGPRSLAELLPRPAVDPRGL  
GQPFLVPVPARPPLTRGQFEEARAHWPTSFHEDKQVTSALAGRLFSTQERAAMQSHMERA  
VWAARRAAARGLRAVGAVVVDPASDRVLATGHDCSCADNPLLHAVMVCVDLVARGQGRGT  
YDFRPFACSFAPAAAPQAVRAGAVRKLDAEDGLPYLCTGYDLYVTREPCAMCAMLVH  
ARILRVFYGAPSPDGALGTRFRIHARPDNLNHRFQVFRGVLEEQRWLD PDT

>sp|P00813|ADA\_HUMAN Adenosine deaminase OS=Homo sapiens GN=ADA PE=1 SV=3

MAQTPAFDKPKVELHVHLDGSIKPETILYGRRRGIALPANTAEGLLNVIGMDKPLTLPD  
FLAKFDYYMPAIAAGCREAIKRIAYEFVEMKAKEGVVYEVRYSPHLLANSKVEIPWNQA  
EGDLTPDEVVALVGQLQEGERDFGVKARSILCCMRHQPNWSPKVVELCKKYQQQT VVAI  
DLAGDETIPGSSLLPGHVQAYQEA VKSGIHRTVHAGEVGSAE VVKEAVDILKTERLGHGY  
HTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNQANYSLNTDDPLIF  
KSTLTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDLLYKAYGMPPSASAG  
QNL

>sp|Q13542|4EBP2\_HUMAN Eukaryotic translation initiation factor 4E-binding protein 2  
OS=Homo sapiens GN=EIF4EBP2 PE=1 SV=1

MSSSAGSGHQPSQSRAIPTRTVAISDAAQLPHDYCTTPGGTLFSTTPGGTRIIYDRKFL  
DRRNSPMAQTPPCHLPNIPGVTSPGTLIEDSKVEVNNLNNLNHDKHAVGDDAQFEMDI

>sp|P04217|A1BG\_HUMAN Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=4

MSMLVVFLLLWGWTVGPVTEAAIFYETQPSLWAESESLKPLANVT LTCQA HLETPDFQL  
FKNGVAQEPVHLDSPA IKHQFLTGTDTQGRYRCRSGLSTGWTQLSKLLELTGPKSLPAPW  
LSMAPVSWITPGLKTAVCRGVLRGVTFLLRREGDHEFLEVPEAQEDVEATFPVHQPGNY  
SCSYRTDGEALSEPSATVTIEELAAPPPVLMHHGESSQVLHPGNKVT LTCVAPLSGVD  
FQLRRGEKELLVPRSSTSPDRIFHLNAVALGDGGHYTCRYRLHDNQNQWSGDSAPVELI  
LSDETLPAPEFSPEPESGRALRLCLAPLEGARFALVREDRGRRVHRFQSPAGTEALFE  
LHNISVADSANYSCVYVDLKPPFGGSAPSERLELHVDGPPPRPQLRATWSGAVLAGRDAV  
LRCEGPIPDVTFELLREGETKAVKTVRTPGAAANLELIFVGPQHAGNYRCRYRSWVPHTF  
EELSDPVELLVAES

>sp|A7E2S9|A30BL\_HUMAN Putative ankyrin repeat domain-containing protein 30B-like OS=Homo  
sapiens GN=ANKRD30BL PE=2 SV=3

MERLSAAPVKGTGPERSPFSQLVYTNNDSYV IHHGDLRKIHKAASRGQAWKLERRMMKK  
TTMDLNIRDAKKRTALYWACANGHAEVVTLLVDRKCQLDVL DGENRTILMKALQCQREAC  
ANILIDSGADPNIVDVGNTAVHYAVNSENLSVAKLLSCGADIEVKNKAGHTPLLLAIR  
KRSEIEVEFLT KKNANANAVDKFKCVHQQLLEYKQKISKNSQNSNPEGTSEGT PDEAAPL  
AERTPDTAESLVERTPDE

>sp|U3KPV4|A3LT2\_HUMAN Alpha-1,3-galactosyltransferase 2 OS=Homo sapiens GN=A3GALT2 PE=2  
SV=1

MALKEGLRAWKRIFWRQILLTLGLLGLFLYGLPKFRHLEALIPMGVCPSATMSQLRDNFT

GALRPWARPEVLTCTPWGAPIIWDGSFDPDAKQEARQQNLTIGLTIFAVGRYLEKYLER  
FLETAEQHFMAQGSVMYYVFTELPGAVPRVALGPGRRLPVERVARERRWQDVSMARMRTL  
HAALGGLPGREAHFMFCMDVDQHFSGTFGPEALAESVAQLHSHWHYHWPSWLLPFERDAHS  
AAAMAWGQGDFYNHAAVFGGSVAALRGLTAHCAGGLDWDARGLEARWHDESHLNKFFWL  
HKPAKVLSPFEWCSPDIGPRAEIRRPRLLWAPKGYRLLRN

>sp|PODMS8|AA3R\_HUMAN Adenosine receptor A3 OS=Homo sapiens GN=ADORA3 PE=2 SV=1

MPNNSTALSLANVTYITMEIFIGLCAIVGNVLVICVVKLNPSLQTTTFYFIVSLALADIA  
VGVLVMPALAIIVSLGITIHFYSCLFMTCLLLIFTHASIMSLAIIVDRYLVRKLTTRYKR  
VTTHRIWLALGLCWLVSFLVGLTPMFGWNMKTSEYHRNVTFLSCQFVSVMRMDYMYVF  
SFLTWIFIPLVVMCAIYLDIFYIIRNKLSLNSNSKETGAFYGREFKTAKSLFLVFLFA  
LSWLPLSIINCIYFNGEVPQLVLYMGILLSHANSMMNPVYAYKIKKFKETYLLILKAC  
VVCHPSDSLDTSEIKNSE

>sp|Q9NS82|AAA1\_HUMAN Asc-type amino acid transporter 1 OS=Homo sapiens GN=SLC7A10 PE=2 SV=1

MAGHTQQPSGRGNRPAPSPSPVPGTVPGASERVALKKEIGLLSACTIIIGNIIGSGIFI  
SPKGVLEHSGSVGLALFVWVLGGGVTALGSLCYAELGVAIPKSGGDYAYVTEIFGGLAGF  
LLLWSAVLIMYPTSLAVISMTFSNYVLQPVFPNCIPPTASRVLSMACLMLLTWVNSSSV  
RWATRIQDMFTGGKLLALSIIIGVLLQIFQGHFEELRPSNAFAFWMTPSVGHLLALFLQ  
GSFAFSGWNFLNYVTEEMVDARKNLPRAIFISIPLVTFVYFTNIAYFTAMSPQELLSSN  
AVAVTFGEKLLGYFSWMPVSVVALSTFGGINGYLFTYSRLCFSGAREGHLPSLLAMIHVR  
HCTPIPALLVCCGATAVIMLVGDTYTLINYVSFINYLCYGVITLGLLLLRWRPALHRPI  
KVNLLIPVAYLVFWAFLLVFSFISEPMVCGVGVIILTGVPFFLGVFWRSKPKCVHRLT  
ESMTHWGQELCFVVYPQDAPEEEENGPCPPSLLPATDKPSKPQ

>sp|Q7RTV5|AAED1\_HUMAN Thioredoxin-like protein AAED1 OS=Homo sapiens GN=AAED1 PE=2 SV=1

MAAPAPVTRQVSGAAALVPAPSGPDGQPLAAVAELPVLDAARGQRPFGALFRERRAVV  
VFVRHFLCYICKEYVEDLAKIPRSFLQEANVTLIVIGQSSYHHIEPFCKLTGYSHEIYVD  
PEREIKRLGMKRGEIASSGQSPHIKSNLLSGSLQSLWRAVTGPLDFDQGDPAQQGGTL  
ILGPGNNIHFTHRDRNRLDHKPINSVLQLVGQVHVNFNTRPSVIHV

>sp|Q9UDR5|AASS\_HUMAN Alpha-amino adipic semialdehyde synthase, mitochondrial OS=Homo sapiens GN=AASS PE=1 SV=1

MLQVHRTGLGRLGVSLSKGLHHKAVLAVRREDVNAWERRAPLAPKHIKGITNLGYKVLIQ  
PSNRRAIHDKDYKAGGILQEDISEACLILGVKRPPEEKLSMRKTYAFFSHTIKAQEANM  
GLLDEILKQEIRLIDYEKMDHRGVRVAFGQWAGVAGMINILHGMGLRLLALGHHTPFM  
HIGMAHNYRNSSQAVQAVRDAGYEISLGLMPKSIPLTFVFTGTGNVSKGAQAFNELPC  
EYVEPHELKEVSQTGDLRKVYGTVLSRHHHLVRKTDVYDPAEYDKHPERYISRFNTDIA  
PYTTCLINGIYWEQNTPRLLTRQDAQSLLAPGKFSPAGVEGCPALPHKLVAICDISADTG  
GSIEFMTECTTIEHPFCMYDADQHIHDSVEGSGILMCSIDNLPALPIEATECFGDMLY  
PYVEEMILSDATQPLESQNFSPVVRDAVITSNGTLPDKYKIYQTLRESRERAQSLSMGTR  
RKVLVLGSGYISEPVLEYLSRDGNIEITVGSDMKNIQELGKKYNINPVSMICKQEEKL  
GFLVAKQDLVISLLPYVLHPLVAKACITNKVNMVTASYITPALKELEKSVEDAGITIIGE  
LGLDPGLDHMLAMETIDKAKEVGATIESYISYCGGLPAPEHSNNPLRYKFSWSPVGVLN  
VMQSATYLLDGKVVNAVAGISFLDAVTSMDFFPGLNLEGYPNRDSTKYAEIYGISSAHTL  
LRGTLRYKGYMKALNGFVKLGLINREALPAFRPEANPLTWKQLLCDLVGISPSSEHDVLK  
EAVLKKLGGDNTQLEAAEWLGLLGDEQVPAESILDALSKHLMKLSYGPEEKDMIVMRD

SFGIRHPSGHLEHKTIDLVAYG DINGFSAMAKTVGLPTAMAAKMLLDGEIGAKGLMGPFSS  
KEIYGPILERIKAEGIIYTTQSTIKP

>sp|Q8NHS2|AATC2\_HUMAN Putative aspartate aminotransferase, cytoplasmic 2 OS=Homo sapiens  
GN=GOT1L1 PE=2 SV=2

MPTLSVFM DVPLAHKLEGSLLKTYKQDDYPNKIFLAYRVCMTNEGHPWVSLVVQKTRLQI  
SQDPSLNYEYLPTMGLKSFIQASLALLFGKHSQAIVENRVGGVHTVGD SGAFQLGVQFLR  
AWHKDARIVYI ISSQKELHGLVFQDMGFTVYEYSVWDPKKLCMDPDILLNVVEQIPHGCV  
LVMGNIIDCKLTPSGWAKLMSMIKSKQIFPFFDIPCQGLYTSLEEDTRILQYFVSQGF  
FFCSQSLSKNFGIYDEGVGMLVVAVNNQQLLCVLSQLEGLAQALWLNPPNTGARVITSI  
LCNPALLGEWKQSLKEVVENIMLTKEKVKEKLQLLGTGPSWGHITQSGTHGYLGLNSQQ  
VEYLVRKKHIYIPKNGQINFSCINANNINYITEGINEAVLLTESSEMCLPKEKKT LIGIK  
L

>sp|Q7Z5R6|AB1IP\_HUMAN Amyloid beta A4 precursor protein-binding family B member 1-  
interacting protein OS=Homo sapiens GN=APBB1IP PE=1 SV=1

MGESSEDIDQMFSTLLGEMDLLTQSLGVDTLPPDPNPPRAEFNYSVGFKDLNESLNALE  
DQDLDALMADLVADISEAEQRTIQAQKESLQNQHHSASLQASIFSGAASLGYGTNVAATG  
ISQYEDDLPPPPADPVLDLPLPPPPPEPLSQEEEEAAKADKIKLALKEKLKEAKVKKLVV  
KVHMNDNSTKSLMVDERQLARDVLDNLFKETHCDCNVDWCLYEIYPELQIERFFEDHENV  
VEVLSDWTRDTENKILFLEKEEKYAVFKNPQNFYLDNRGKKESKETNEKMNAKNKESLLE  
ESFCGTSIIVPELEGALYLKEDGKKS WKRRYFLLRASGIYVPGKTKTSRDLACFIQFE  
NVNIYYGTQHMKYKAPTDYCFVLKHPQIQKESQYIKYLCDDTRTLNQWVMGIRIAKYG  
KTLYDNYQRAVAKAGLASRWTNLGTVNAAAPAPSTGPKTGTTPNGQIPQATHSVSAVL  
QEAQRHAETSKDKKPALGNHHDPAVPRAPHAPKSSLPPPPPVRRSSDTSGSPATPLKAKG  
TGGGGLPAPPDDFLPPPPPPPLDDPELPPPPPDFMEPPPDFVPPPPPSYAGIAGSELPP  
PPPPPPAPAPVPDSARPPPAVAKRPPVPPKRQENPGHPGGAGGGEQDFMSDLMKALQK  
KRG NVS

>sp|Q9NP78|ABCB9\_HUMAN ATP-binding cassette sub-family B member 9 OS=Homo sapiens GN=ABCB9  
PE=1 SV=1

MRLWKAVVVTLAFMSVDICVTTAIYVF SHLDRSLEDIRHFNIFDSVLDLWAACLYRSCL  
LLGATIGVAKNSALGPRRLRASWLVITLVCLFVGIYAMVKLLLFSEVRRPIRDPFWWALF  
VWTYISLGASFLWLLSTVRPGTQALEPGAATEAEGFPGSGRPPPEQASGATLQKLLSY  
TKPDVAFLVAASFLLIVAALGETFLPYTGRAIDGIVIQKSMDQFSTAVVIVCLLAIGSS  
FAAGIRGGIFTLIFARLNIRLNCLFRSLVSQETSFFDENRTGDLISRLTSDTTMVSDLV  
SQNINVFLRNTVKVTGVVVFMSLSWQLSLVTFMGFPIIMMVSNIYGKYYKRLSKEVQNA  
LARASNTAEETISAMKTVRSFANEEEEAEVYLRKLQQVYKLNREAAAAYMYVWGSGLTL  
LVVQVSILYYGGHLVISGQMTSGNLI AFIIIEFVLGDCMESVGSVYSGLMQGVGA AEKVF  
EFIDRQPTMVHDGSLAPDHLEGRVDFENVTF TYRTRPHTQVLQNVSFSLSPGKV TALVGP  
SGSGKSSCVNILENFYPLEGGRVLLDGKPI SAYDHKYLHRVISLVSQEPVLFARSITDNI  
SYGLPTVPFEMVVEAAQKANA HGFIMELQDGYSTETGEKGAQLSGGQKQRVAMARALVRN  
PPVLILDEATSALDAESEYLIQQA IHGNLQKHTVLI IAHRLSTVEHAHLIVVLDKGRVVQ  
QGTHQQLLAQGGLYAKLVQRQMLGLQPAADFTAGHNEPVANGSHKA

>sp|Q9NRK6|ABCB10\_HUMAN ATP-binding cassette sub-family B member 10, mitochondrial OS=Homo  
sapiens GN=ABCB10 PE=1 SV=2

MRGPPAWPLRLLEPPSPAEPGRLLPVACVWAAASRVPGSLSPFTGLRPARLWGAGPALLW

GVGAARRWRSGCRGGPGASRGVLGLARLLGLWARGPGSCRCGAFAGPGAPRLPRARFPG  
GPAAAAWAGDEAWRRGPAAPPDGKRLRPAAAGLPEARKLLGLAYPERRRLAAVGFMTM  
SSVISMSAPFFLGKI IDVIYTNPTVDYSDNLRCLGLSAVFLCGAAANAIRVYLMQTS  
QRIVNRLRTSLFSSILRQEVAFDQKTRTGELINRLSSDTALLGRSVTENLSDGLRAGAQA  
SVGISMFFVSPNLATFVLSVVPVSIIAVIYGRYLRKLTQVTDLSAQATQLAEERIGN  
VRTVRAFGKEMTEIEKYASKVDHVMQLARKEAFARAGFFGATGLSGNLIVLSVLYKGGLL  
MGSAHMTVGELSSFLMYAFWVGISIGGLSSFYSELMKGLGAGGRLWELLEREPKLPFNEG  
VILNEKSFQGALEFKNVHFAYPARPEVPIFQDFSLSIPSGSVTALVGPSGSGKSTVLSLL  
LRLYDPASGTISLDGHDIRQLNPVWLRKIGTVSQEPILFSCSIAENIAYGADDPSSVTA  
EEIQRVAEVANAVAFIRNFPQGFTVVGEKGVLLSGGQKQRIATARALLKNPKILLDEA  
TSALDAENEYLVQEALDRLMDGRTVLVIAHRLSTIKNANMVAVLDDQGKITEYGKHEELLS  
KPNGIYRKL MNKQSFISA

>sp|060706|ABCC9\_HUMAN ATP-binding cassette sub-family C member 9 OS=Homo sapiens GN=ABCC9  
PE=1 SV=2

MSLSFCGNNISSYNINDGVLQNSCFVDALNLVPHVFLLFITFPILFIGWGSQSSKVQIHH  
NTWLHFPGHNLRWILTFALLFVHVCEIAEGIVSDSRRESRHLHLFMPAVMGFVATTTSIV  
YYHNIETSNFPKLLALFLYWMAFITKTIKLVKYCQSGLDISNLRFCITGMMVILNGLL  
MAVEINVIRVRRYVFFMNPQKVKPPEDLQDLGVRFLQPFVNLLSKATYWWMTLII SAHK  
KPIDLKAI GKLP IAMRAVTNYVCLKDAYEEQKKKVADHPNRTPSIW LAMYRAFGRPILLS  
STFRYLADLLGFAGPLCISGIVQRVNETQNGTNNTTG ISETLSSKEFLENAYVLAVLLFL  
ALILQRTFLQASYYYT IETGINLRGALLAMIY NKILRLSTSNLSMGEMTLGQINN LVAIE  
TNQLMWFLFLCPNLWAMPVQIIMGVILLYNLLGSSALVGA AVIVLLAPIQYFIATKLAEA  
QKSTLDYSTERLKKTNEILKG IKLLKYAWEHIFCKSVEETRMKELSSLKTFALYTSLSI  
FMNAAIPIAAVLATFVTHAYASGNNLKPAEAFASLSLFHILVTPFLSTVVRFAVKAI I  
SVQKLN EFLLSDEIGD DSWRTGESSLPFESCKKHTGVQPKTINRKQPGRYHLDSYEQSTR  
RLRPAETEDIAIKVTNGYFSWGSGLATLSNIDIRIPTGQLTMIVGQVCGKSSLLAILG  
EMQTLEGKVHWSNVNESEPSFEATRSRNRYSVAYAAQKPWLLNATVEENITFGSPFNKQR  
YKAVTDACSLQPDIDLLPFGDQTEIGERGINLSGGQQRICVARALYQNTNIVFLDDPFS  
ALDIHLSDHLMQEGILKFLQDDKRTLVLVTHKLQYLTHADWIIAMKDGSVLREGTLKDIQ  
TKDVELYEHWKTLMNRQDQELEKDMEADQTTLERKTLRRAMYSREAKAQMEDEDEEEEE  
EDEDNMTVMRLRTKMPWKTCWRYLTSGGFFLLILMIFSKLLKHSVIVAI DYWLATWTS  
EYSINNTGKADQTYVAGFSILCGAGIFLCLVTSLTVEWMGLTAAKNLHHNLLNKIILGP  
IRFFDTTPLGLILNRF SADTNIIDQHIPP TLESLTRSTLLCLSAIGMISYATPVFLVALL  
PLGVAFYFIQKYFRVASKDLQELDDSTQLPLLCHFSETAEGLTTIRAFRHETRFKQRMLE  
LTDTNNIAYLFLSAANRWLEVRTDYLGACIVLTASIASISGSSNSGLVGLGLLYALTITN  
YLNWVVRNLADLEVQMGAVKKVNSFLTMESENYEGTMDPSQVPEHWPQEGEIKI HDLCVR  
YENNLKPV LKHVKAYIKPGQKVGICGRTGSGKSSLSLAFFRMVDIFDGKIVIDGIDISKL  
PLHTLRSRLSII LQDPILFSGSIRFNLDP ECKCTDDRLWEALEIAQLKNMVKSLPGGLDA  
VVTEGGENFSVGQRQLFCLARAFVRKSSILIMDEATASIDMATENILQKVVM TAFADRTV  
VTIAHRVSSIMDAGLVLVFSEGILVECDTVPNLLAHKNGLFSTLVM TNK

>sp|Q96J66|ABCCB\_HUMAN ATP-binding cassette sub-family C member 11 OS=Homo sapiens  
GN=ABCC11 PE=1 SV=1

MTRKRTYWVPNSSGGLVNRGIDIGDDMVSGLIYKTYTLQDGPWSQQERNPEAPGRAAVPP  
WGKYDAALRTMIPFRPKPRFPAPQLDNAGLFSYLT VSWLTPLMIQSLRSRLDENTIPPL

SVHDASDKNVQRLHRLWEEEVSRRGIEKASVLLVMLRFQRTRLIFDALLGICFCIASVLG  
PILIPKILEYSEEQLGNVVHGVGLCFALFLSECVKSLSFSSSWIINQRTAIRFRAAVSS  
FAFEKLIQFKSVIHITSGEAISFFTGDVNYLFEGVCYGPLVLITCASLVICSISSYFIIG  
YTAFIAILCYLLVFPLAVFMTRMAVKAQHHTSEVSDQRIRVTSEVLTICIKLIKMYTWEKP  
FAKIIEDLRRKERKLEKCGLVQSLTSITLFIIPTVATAVWVLIHTSLKCLKLTASMAFSM  
LASLNLRLSVFFVPIAVKGLTNSKSAVMRFKKFFLQESPVFYVQTLQDPSKALVFEEAT  
LSWQQTCPGIVNGALELERNGHASEGMTRPRDALGPEEEGNSLGPHELKINLVVSKGMML  
GVCGNTGSGKSSLLSAILEEMHLEGSVGVQGSLAYVPQAWIVSGNIRENIMGGAYDK  
ARYLQVLHCCSLNRDLELLPFGDMTEIGERGLNLSGGQKQRISLARAVYSDRQIYLLDDP  
LSAVDAHVGKHIFEECTIKKTLRGKTVVLVTHQLQYLEFCGQIILLENGKICENGTHSELM  
QKKGKYAQLIQKMHKEATSDMLQDTAKIAEKP KVESQALATSLEESLNGNAVPEHQLTQE  
EEMEESLSWRVYHHYIQAAGGYMVSCIIFFFVVLIVFLTIFSFWWLSYWLEQSGTNSS  
RESNGTMADLGNIADNPQLSFYQLVYGLNALLLICVGVCSGIFTKPTRKASTALHNKLF  
NKVFRCPMSFFDTIPIGRLLNCFAGDLEQLDQLLPIFSEQLVLVSLMVIIVLLIVSVLSP  
YILLMGAIIMVICFIYMMFKKAIQVFKRLENYSRSPFLSHILNSLQGLSSIHVYGKTED  
FISQFKRLTDAQNNYLLFLSSTRWMALRLEIMTNLVTLAVALFVAFGISSTPYSFKVMA  
VNIVLQLASSFQATARIGLETEAQFTAVERILQYMKMCVSEAPLHMEGTSCPQGWPHGE  
IIFQDYHMKYRDNTPTVLHGINTLIRGHEVVGIVGRTGSGKSSLGMAFRLVEPMAGRIL  
IDGVDICSIGLEDLRKLSVIPQDPVLLSGTIRFNLDPFDRHTDQQIWDALERTFLTKAI  
SKFKPKLHTDVVENGNGNFSVGERQLLCIARAVLRNSKIILIDEATASIDMETDTLIQRTI  
REAFQGCTVLVIAHRVTTVLNCDHILVMGNGKVVEFDRPEVLRKKPGSLFAALMATATSS  
LR

>sp|Q8NE71|ABCF1\_HUMAN ATP-binding cassette sub-family F member 1 OS=Homo sapiens GN=ABCF1  
PE=1 SV=2

MPKAPKQQPEPEWIGDGESTSPSDKVVKKGKKDKKIKKTTFEELAVEDKQAGEEEKVLK  
EKEQQQQQQQQQKKRDRTRKGRRKKDVEDDGEELMERLKKLSVPTSDEEDVPAPKP  
RGGKKTGGNVFAALIQDQSEEEEEEEKHPPKPAKPEKNRINKAVSEEQQPALKGKKGKE  
EKSKGKAKPQNKFAALDNEEDKEEEIIEKEPPKQGKEKAKAEQSGEEGEGEEEEEE  
GGESKADDPYAHLSKKEKKKKQMEYERQVASLKAANAAENDFSVQAEMSSRQAMLEN  
ASDIKLEKFSISAHGKELFVNADLYIVAGRRYGLVGPNGKGKTTLLKHIANRALSIPPNI  
DVLLCEQEVVADETPAVQAVLRADTKRLKLEEEERLQGQLEQGDDTAAERLEKVEEELR  
ATGAAAAEAKARRILAGLGFPEMQNRPTQKFSGGWRMRVSLARALFMEPTLLMLDEPTN  
HLDLNAVIWLNLYQGWRKTLLIVSHDQGFLDDVCTDIHLDAQRLHYRGNMTFKKMY  
QQKQKELLKQYEKQEKKLKELKAGGKSTKQAEKQTKREALTRKQKCRRNQDEESQEAPE  
LLKRPKEYTVRFTFPDPPPLSPPVLGLHGVTFGYQGQKPLFKNLDFGIDMSRICIVGPN  
GVGKSTLLLLTGKLTPTHGEMRKNHRLKIGFFNQYAEQLRMEETPTEYLQRGFNLPYQ  
DARKCLGRFGLESHAHTIQICKLSGGQKARVVFAELACREPDVLIIDEPTNNLDIESIDA  
LGEAINEYKGAVIVVSHDARLITETNCQLWVVEEQSVSQIDGDFEDYKREVLEALGEVMV  
SRPRE

>sp|Q9UNQ0|ABCG2\_HUMAN ATP-binding cassette sub-family G member 2 OS=Homo sapiens GN=ABCG2  
PE=1 SV=3

MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE  
KEILSNINGIMKPLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRANFKCN  
SGYVVQDDVVMGTLTVRENLFSAALRLATMTNHEKNERINRVIQELGLDKVADSKVGT

QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF  
SIHQPRYSIFKLFDSTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING  
DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAETVNSSFYKETKAELHQLSGGEKKKK  
ITVFKETSYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVLGLVIGAIYFGLKND  
TGIQNRAGVLFLLTTNQCFSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP  
MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL  
MTICFVMMIFSGLLVNLTTIASWSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN  
NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS

>sp|Q9H221|ABCG8\_HUMAN ATP-binding cassette sub-family G member 8 OS=Homo sapiens GN=ABCG8  
PE=1 SV=1

MAGKAAEERGLPKGATPQDTSGLQDRLFSSSESDNSLYFTYSGQPNTLEVRDLNYQVDLAS  
QVPWFEQLAQFKMPWTSPSCQNSCELGIQNLSFKVRSGQMLAIIGSSGCGRASLLDVITG  
RGHGGKIKSGQIWIWGPSSPQLVRKCVAHVRQHNQLLPNLTVRETLAFIAQMRLPRTFS  
QAQRDKRVEDVIAELRLRCADTRVGNMYVRGLSGGERRRVSIGVQLLWNPGLILDEPT  
SGLDSFTAHLVKLSRLAKGNRLVLISLHQPRSDIFRLFDLVLLMTSGTPIYLGAQHM  
VQYFTAIGYPCPRYSNPADFYVDLTSIDRRSREQELATREKAQSLAALFLEKVRDLDDFL  
WKAETKDLDEDTCESSVTPLDNTCLPSPTKMPGAVQQFTTLIRRQISNDFRDLPTLLIH  
GAEACLSMTIGFLYFGHSGIQLSFMDTAALLFMIGALIPFNVILDVISKYSERAMLYY  
ELEDGLYTTGPYFFAKILGELPEHCAYIIIIYGMPTYWLANLRPGLQPFLHFLLVLVVF  
CCRIMALAAAALLPTFHMAFFSNALYNSFYLAGGFMINLSSLWTPAWISKVSFLRWCF  
EGLMKIQFSRRTYKMPLGNLTIAVSGDKILSVMELDSYPLYAIYLIVIGLSGGFMVLYYV  
SLRFIKQKPSQDW

>sp|Q8TB40|ABHD4\_HUMAN Protein ABHD4 OS=Homo sapiens GN=ABHD4 PE=2 SV=1

MADDLEQSQGWLSSWLPTWRPTSMSQLKNVEARILQCLQNKFLARYVSLPNQNKIWTVT  
VSPEQNDRTPLMVHGFGGGVLWILNMDLSARRTLHTFDLLGFGRSSRPAFPRDPEGA  
EDEFVTSIETWRETGMIPSMILLGHSLGGFLATSYSIKYPDRVKHLILVDPWGFPLRPTN  
PSEIRAPPAWVKAVASVLRGNSPLAVLRVAGPWGGLVQRFPRDFKRKFADFFEDDTISE  
YIYHCNAQNPSGETAFKAMMESFGWARRPMLERIHLIRKDVPIITMIYGSDTWIDTSTGKK  
VKMQRPDSYVRDMEIKGASHHVYADQPHIFNAVVEEICDSVD

>sp|Q9NUJ1|ABHD10\_HUMAN Mycophenolic acid acyl-glucuronide esterase, mitochondrial OS=Homo  
sapiens GN=ABHD10 PE=1 SV=1

MAVARLAAVAAWVPCRSGWAAVFPQPHRGLSVLLARIPQRAPRWLPACRQKTSLSFLNR  
PDLPNLAYKKLKGKSPGIIIFIPGYLSYMGTKALAIIEFCKSLGHACIRFDYSGVGSSDG  
NSEESTLGKWRKDVLSIIDDLADGPQILVGSSLGGLMLHAAIARPEKVVALIGVATAAD  
TLVTKFNQLPVELKKEVEMKGVWMPKSYSEEGVYNVQYSFIKEAEHHCLLHSPIPVNCP  
IRLLHGMKDDIVPWHTSMQVADRVLSTDVDVILRKHSDHRMREKADIQLLVYTIDDLIDK  
LSTIVN

>sp|Q9H3Z7|ABHGB\_HUMAN Protein ABHD16B OS=Homo sapiens GN=ABHD16B PE=3 SV=1

MCVICFVKALVRVFKIYLTASYTYPFRGWPAFRWDDVRAVGRSSSHRALTCAAAAAGVW  
LLRDETLGGDALGRPPRGARSQAQCLLQQLRELPGQLASYALAHSLGRWLVPYGSVSLMT  
RALLPLLQGGQERLVERYHGRRAKLVACDGNEIDTMFMDRRQHPSHVHGPRLVICCEGN  
AGFYEMGCLSAPEAGYSVLGNHPGFGSSTGVFPQHDANAMDVVEYALHRLHFPPAH  
LVVYGWSVGGFTATWATMTYPELGALVLDATFDDLVLPLALKVMPHSWKGLVVRTVREHFN  
LNVAEQLCCYPGPVLLLRRQTQDDVVSTSGRLRPLSPGDVEGNRGNELLLRLEHRYPVVM

AREGRAVVTRWLRAQSLAQEAIFYARYRVDEDEDWCLALLRSYRARCEEELEGEALGPHGP  
AFPWLVGQGLSSRRRRRLALFLARKHLKNVEATHFSPLEPEEFQLPWRL

>sp|Q68CK6|ACSM2B\_HUMAN Acyl-coenzyme A synthetase ACSM2B, mitochondrial OS=Homo sapiens  
GN=ACSM2B PE=1 SV=2

MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLHDWADMEKA  
GKRLPSPALWWVNGKGKELMWNFRELSSENSQQAANILSGACGLQRGDRVAVMLPRVPEWW  
LVILGCIRAGLIFMPGTIQMKSTDILYRLQMSKAKAIVAGDEVIQEVDTVASECPSLRIK  
LLVSEKSCDGWLNFKKLLNEASTTHHCVETGSQEASAIYFTSGTSGLPKMAEHSYSSLGL  
KAKMDAGWTGLQASDIMWTISDTGWILNILGSLLSWTLGACTFVHLLPKFDPLVILKTL  
SSYPIKSMMGAPIVYRMLLQQDLSSYKFPHLQNCLAGGESLLPETLENWRAQTGLDIREF  
YGQTETGLTCMVSKTMKIKPGYMGTAASCYDVQVIDDKGNVLPPEGTEGDIGIRVKPIRPI  
GIFSGYVENPDKTAANIRGDFWLLGDRGIKDEDDGYFQFMGRADDIINSSGYRIGPSEVEN  
ALMKHPAVVETAVISSPDPVRGEVVKAFVILASQFLSHDPEQLTKELQQHVKSVTAPYKY  
PRKIEFVLNLPKTVTGKIQRTKLDRKEWKMSGKARAQ

>sp|P33121|ACSL1\_HUMAN Long-chain-fatty-acid--CoA ligase 1 OS=Homo sapiens GN=ACSL1 PE=1  
SV=1

MQAHELFRYFRMPELVDFRQYVRTLPTNTLMGFGAFAALTTFWYATRPKPLKPPCDLSMQ  
SVEVAGSGGARRSALLDSDEPLVYFYDDVTLYEGFQRGIQVSNNGPCLGSRKPDQPYEW  
LSYKQVAELSECIGSALIQKGFKTAPDQFIGIFAQNRPEWVIEQGCFAYSMVIVPLYDT  
LGNEAITIYIVNKAELSLVFVDKPEKAKLLEGVENKLIPGLKIIVMDAYGSELVERGQR  
CGVEVTSMKAMEDLGRANRRKPPAPEDLAVICFTSGTTGNPKGAMVTHRNI VSDCSAF  
VKATENTVNPCDDTLISFLPLAHMFERVVECVMLCHGAKIGFFQGDIRLLMDDLKVLQP  
TVFPVVPRLNRMFDRIFGQANTTLKRWLLDFASKRKEAELRSGIIRNNSLWDRLIFHKV  
QSSLGGRVRLMVTGAAPVSATVLTFLRAALGCQFYEGYGQTECTAGCCLTMPGDWTAGHV  
GAPMPCNLIKLVDEEMNYMAAEGEGEVCVKGNVFGYGLKDKPAKTAELDKDGLHTGD  
IGKWL PNGTLKIIDRKKHIFKLAQGEYIAPEKIENIYMRSEPVAQVFVHGESLQAFLIAI  
VVPDVETLCSWAQKRGFEFSFEELCRNKDVKKAILEDMVRLGKDSGLKPFQVKGITLHP  
ELFSIDNGLLTPTMKAKRPELRNYFRSQIDDLYSTIKV

>sp|O60488|ACSL4\_HUMAN Long-chain-fatty-acid--CoA ligase 4 OS=Homo sapiens GN=ACSL4 PE=1  
SV=2

MKLKLNVLTIILLPVHLLITIYSALIFIPWYFLTNAKKKNAMAKRIKAKPTSDKPGSPYR  
SVTHFDSLAVIDIPGADTLDKLFDHAVSKFGKKDSLGTREILSEENEMQPNGKVFKKLIL  
GNYKWMNYLEVNRNVNFGSGLTALGLKPKNTIAIFCETRAEWMIAAQTCFKYNFPLVTL  
YATLGKEAVVHGLNESEASYLITSVELLESKLTALLDISCVKHIIYVDNKAINKAEYPE  
GFEIHSMQSVEELGSNPENLGIPSRPTPSDMAIVMYTSGSTGRPKGVMHHSNLIAGMT  
GQCERIPGLGPKDTYIGYLPLAHVLELTAEISCFTYGCRIGYSSPLTSDQSSKIKKGSK  
GDCTVLKPTLMAAVPEIMDRIYKNVMSKVQEMNYIQKTLFKIGYDYKLEQIKKGYDAPLC  
NLLLFKKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCPIGQGYGLTESCGAGTVTEV  
TDYTTGRVGAPLICCEIKLKDWEQEGYTINDKPNRGEIVIGGNISMGYFKNEEKTAED  
YSVDENGQRWFCTGDIGEFHPDGCLQIIDRKKDLVKLQAGEYVSLGKVEAALKNCPLIDN  
ICAFKSDQSYVISFVVPNQKRLTLAQQKGVEGTWVDICNNPAMEAEILKEIREAANAM  
KLERFEIPIKVRLSPEPWTPETGLVTD AFKLKRKELRNHYLKDIERMYGK

>sp|Q9H6R3|ACSS3\_HUMAN Acyl-CoA synthetase short-chain family member 3, mitochondrial  
OS=Homo sapiens GN=ACSS3 PE=1 SV=1

MKPSWLQCRKVTSAAGLGGPLPGSSPARGAGAAALRALVVPGRGGLGGRGCALSSGSGS  
EYKTHFAASVTDPERFWGKAAEQISWYKPWTKLTENKHSPSTRWFVEGMLNICYNAVDRH  
IENGKGDKIAIIYDSPVTNTKATFTYKEVLEQVSKLAGVLVKHGKKGDTVVIYMPMIPQ  
AMYTMLACARIGAIHSLIFGGFASKELSSRIDHVKPKVVVTASFGIEPGRRVEYVPLVEE  
ALKIGQHHPDKILIYNRPNMEAVPLAPGRDLWDDEEMAKAQSHDCVPVLSEHPLYILYTS  
GTTGLPKGVIRPTGGYAVMLHWSMSSIIYGLQPGEVWAAASDLGWVVGHSYICYGPLLHGN  
TTVLYEGPKVGTDPAGAYFRVLAEHGVAALFTAPTAIRAIRQQDPAALGKQYSLTRFKT  
LFVAGERCDVETLEWSKNVFRVPVLDHWWQTETGSPITASCVGLGNSKTPPPGQAGKSVP  
GYNVMILDDNMQKLKARCLGNIVVKLPLPPGAFSGLWKNQEAFKHLYFEKFPGYDMDA  
GYMDEEGYLYVMSRVDDVINVAGHRISAGAIIEESILSHGTVADCAVVGKEDPLKGHVPLA  
LCVLRKDINATEEQVLEEIVKHVRQNIGPVAAFRNAVFKQLPKTRSGKIPRSALSAIVN  
GKPYKITSTIEDPSIFGHVEEMLKQA

>sp|Q562R1|ACTBL\_HUMAN Beta-actin-like protein 2 OS=Homo sapiens GN=ACTBL2 PE=1 SV=2

MTDNELSALVVDNGSGMCKAGFGGDDAPRAVFPSMIGRPRHQGVVMGMGQKDCYVGDEAQ  
SKRGVLTLYPIEHGVVTNWDDMEKIWYHTFYNELRVAPDEHPILLTEAPLNPKINREKM  
TQIMFEAFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHIVPIYEGYALPHAIRLD  
LAGRDLTDYLMKILTERGYNFTTAEREIVRDVKEKLCYVALDFEQEMVRAAASSSPERS  
YELPDGQVITIGNERFRCPEAIFQPSFLGIESSGIHETTFNSIMKCDVDIRKDLANTVL  
SGGSTMYPGIADRMQKEIITLAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISK  
QEYDEAGPPIVHRKCF

>sp|P68032|ACTC\_HUMAN Actin, alpha cardiac muscle 1 OS=Homo sapiens GN=ACTC1 PE=1 SV=1

MCDDEETALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQGVVMGMGQKDSYVGDEA  
QSKRGILTLYPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREK  
MTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRL  
DLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEK  
SYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLANNV  
LSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWIS  
KQEYDEAGPSIVHRKCF

>sp|P12814|ACTN1\_HUMAN Alpha-actinin-1 OS=Homo sapiens GN=ACTN1 PE=1 SV=2

MDHYDSQQTNDYMQPEEDWDRDLLLPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFR  
DGLKMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGNV  
KMTLGMITWIIILRFATQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGFC  
ALIHRRPELIDYGLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIMT  
YVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLENR  
VPENTMHAMQQKLEDFRDYRRLHKPPKVQEKQLEINFNTLQTKLRLSNRPAFMPSEGRM  
VSDINNAWGCLEQVEKGYEEWLLNEIRRLERLDHLAEKFRQKASIEAWTDGKEAMLRQK  
DYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKIC  
DQWDNLGALTQKRREALERTEKLETTIDQLYLEYAKRAAPFNWMEGAMEDLQDTFIVHT  
IEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIYQTYHVNMAGTNPYTTITPQEI  
NGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIEM  
HGTLEDQLSHLRQYEKSIYNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQL  
LTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDHSGTLGPPEEFKACLISLGY  
DIGNDPQGEAEFARIMSIIVDPNRLGVVTFQAFIDFMSRETADTDTADQVMASFKILAGDK  
NYITMDELRRLEPPDQAEYCIARMAPYTGPDSPVPGALDYMSFSTALYGESDL



>sp|P35609|ACTN2\_HUMAN Alpha-actinin-2 OS=Homo sapiens GN=ACTN2 PE=1 SV=1

MNQIEPGVQYNYVYDEDEYMIQEEEWDRDLLLLPAWEKQQRKTFTAWCNSHLRKAGTQIE  
NIEEDFRNGLKMLLLEVISGERLPKPDRGKMRFHKIANVNKALDYIASKGVKLVSIGAE  
EIVDGNVKMTLGMWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYRNVNIQNFHTSW  
KDGLGLCALIHRHRPDLIDYSKLNKDDPIGNINLAMEIAEKHLDIPKMLDAEDIVNTPKP  
DERAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENERLMEEYERLASELLEWIRRT  
IPWLENRTPEKTMQAMQKKLEDFRDYRRKHKPPKVQEKQCLEINFNTLQTKLRISNRPAF  
MPSEGKMVSDIAGAWQRLEQAEKGYEELLNEIRRLERLEHLAEKFRQKASTHETWAYGK  
EQILLQKDYESASLTEVRALLRKHEAFESDLAAHQDRVEQIAAIAQELNELDYHDAVNVN  
DRCQKICDQWDRLTGTQKRREALERMEKLETTIDQLHLEFAKRAAPFNNWMEGAMEDLQ  
DMFIVHSIEEIQSLITAHEQFKATLPEADGERQSIMAIQNEVEKVIQSYNIRISSNPYS  
TVTMDLRTKWKVKQLVPIRDQSLQEELARQHANERLRRQFAAQANAIGPWIQNKMEEI  
ARSSIQITGALEDQMNQLKQYEHNIINYKNNIDKLEGDHQLIQEALVFDNKHTNYTMEHI  
RVGWELLTTIARTINEVETQILTRDAKGITQEQMNEFRASFNFDRRKNGLMDHEDFRA  
CLISMGYDLGEAEFARIMTLVDPNGQGTVTTFQSFIDFMTRETADTDTAEQVIASFRILAS  
DKPYILAEELRRELPPDQAQYCIKRMPAYSGPGSVPGALDYAAFSSALYGESDL

>sp|O43707|ACTN4\_HUMAN Alpha-actinin-4 OS=Homo sapiens GN=ACTN4 PE=1 SV=2

MVDYHAANQSYQYGPSSAGNGAGGGGSMGDYMAQEDDWRDLLLLPAWEKQQRKTFTAWC  
NSHLRKAGTQIENIDEDFRDGLKMLLLEVISGERLPKPERGKMRVHKINNPNKALDFIA  
SKGVKLVSIGAEIIVDGNAMKMTLGMWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPY  
KNVNVQNFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIPKM  
LDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDYEK  
LASDLLEWIRRTIPWLEDVRPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKQCLEINFNTL  
QTKLRISNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEELLNEIRRLERLDHLAEKFRQ  
KASIHAWTDGKEAMLKHRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQEL  
NELDYYDSHNVNTRCQKICDQWDALGSLTHSRREALEKTEKQLEAIDQLHLEYAKRAAPF  
NNWMESAMEDLQDMFIVHTIEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIAES  
NHIKLSGSPNYTTVPQIINSKWEKVQLVPKRDHALLEEQSKQSQSNEHLRRQFASQANV  
VGPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYKPNLDLLEQQHQLIQEALIF  
DNKHTNYTMEHIRVGWEQLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNFHFDKD  
HGGALGPPEEFKACLISLGYDVENDRQGEAEFNRIMSLVDPNHSGLVTFQAFIDFMSRETT  
DSTDADQVIASFKVLAGDNFITAELRRELPPDQAECIARMAPYQGPDAVPGALDYKS  
FSTALYGESDL

>sp|P37023|ACVRL1\_HUMAN Serine/threonine-protein kinase receptor R3 OS=Homo sapiens  
GN=ACVRL1 PE=1 SV=2

MTLGSPRKGLMLLMALVTQGDVPKPSRGPLVTCTCESPHCKGPTCRGAWCTVVLVREEG  
RHPQEHRCGGLNLHRELRCRGRPTEFVNHYCCDHLNHNVSLEATQPPSEQPGTDGQLA  
LILGPVLALLALVALGVGLWHVRRRQEKQRLHSELGESSLILKASEQGDSMLGDLLDS  
DCTTSGSGSLPFLVQRTVARQVALVECVGKGRYGEVWRGLWHGESVAVKIFSSRDEQSWF  
RETEIYNTVLLRHDNILGFIASDMTSRNSSTQLWLITHYHEHGSLYDFLQRQTLEPHLAL  
RLAVSAACGLAHLHVEIFGTQGGKPAIAHRDFKSRNVLVKSNLQCCIADLGLAVMHSQGSD  
YLDIGNNPRVGTKRYMAPEVLDEQIRTDCFESYKWTDIWAFGLVLWEIARRTIVNGIVED  
YRPPFYDVVPNDPSFEDMKVKVCVDQQTPTIPNRLAADPVLSGLAQMMRECWPYPNSARL  
TALRIKKTQKISNSPEKPKVIQ

>sp|Q9H013|ADA19\_HUMAN Disintegrin and metalloproteinase domain-containing protein 19

OS=Homo sapiens GN=ADAM19 PE=1 SV=3

MPGGAGAARLCLLAFALQPLRPRAAREPGWTRGSEEGSPKLQHELIIPQWKTSESPVREK  
HPLKAELRVMAEGRELILDLEKNEQLFAPSYTETHYTSSGNPQTTTRKLEDHCFYHGTVR  
ETELSSVTLSTCRGIRGLITVSSNLSYVIEPLPDSKGQHLYRSEHLKPPPGNCGFEHSK  
PTTRDWALQFTQQTKRPRRMKREDLNSMKYVELYLVADYLEFQKNRRDQDATKHKLIEI  
ANYVDKIFYRSLNIRIALVGLEVWTHGNMCEVSENPYSTLWSFLSWRRKLLAQKYHDNAQL  
ITGMSFHGTTIGLAPLMAMCSVYQSGGVNMDHSENAIGVAATMAHEMGNHFGMTHDSADC  
CSASAADGGCIMAATGHPFPKFVNGCNRRRELDRYLQSGGGMCLSNMPDTRMLYGGRRCG  
NGYLEDGEECDCGEEEECNPPCCNASNCTLRPGAECAGSCCHQCKLLAPGTLCREQARQ  
CDLPEFCTGKSPHCPTNFYQMDGTPCEGGQAYCYNGMCLTYQEQCQLWGPGARPAAPDLC  
FEKVNAGDTFGNCGKDMNGEHRKCNMRDAKCGKIQCSSEARPLESNAVPIIDTTIIMNG  
RQIQCRGTHVYRGPEEEGDMLDPLVMTGTCGYNHICFEGQCRNTSFFETEGCGKKCNG  
HGVCNNNQNHCLPGWAPFCNTPGHGGSIDSGMPPEVGPVAVGLVAILVLAVLMLM  
YYCCRQNNKLGQLKPSALPSKLRQQFSCPFVRSQNSGTGHANPTFKLQTPQGKRKVINTP  
EILRKPSQPPPRPPDYLRGGSPAPLPAHLSRAARNSPGPGSQIERTESSRRPPPSRPI  
PPAPNCIVSQDFSRRPPQKALPANVPVGRRLPRPGGASPLRPPGAGPQQSRPLAALAP  
KVSREALKVKAGTRGLQGGRCEVEKTKQFMLLVVWTELPEQKPRAKHSCFLVPA

>sp|Q13541|4EBP1\_HUMAN Eukaryotic translation initiation factor 4E-binding protein 1

OS=Homo sapiens GN=EIF4EBP1 PE=1 SV=3

MSGSSCSQTPSRAIPATRRVLGDGVQLPPGDYSTTPGGTLFSTTPGGTRIIYDRKFLM  
ECRNSPVTKTPPRDLPTIPGVTSPSSDEPPMEASQSHLRNSPEDKRAGGEESQFEMDI

>sp|P28566|5HT1E\_HUMAN 5-hydroxytryptamine receptor 1E OS=Homo sapiens GN=HTR1E PE=1 SV=1

MNITNCTEASMAIRPKTITEKMLICMTLVVITTLTLLNLAVIMAIGTTKKLHQPANYL  
ICSLAVTDLLVAVLVMPLSIIYIVMDRWKLGFLCEVWLSVDMTCCTCSILHLCVIALDR  
YWAITNAIEYARKRTAKRAALMILTVWTISIFISMPPLFWRSHRRLSPPPSQCTIQHDHV  
IYTIYSTLGAFYIPLTLILILYYRIYHAAKSLYQKRGSSRHLSNRSTDSQNSFASCKLTQ  
TFCVSDFSTSDPTTEFEKFKHASIRIPFDNDLDHPGERQQISSTRERKAARILGLILGAF  
ILSWLPFFIKELIVGLSIYTVSSEVADFLTWLGYVNSLINPLLYTSFNEDFKLAFKKLIR  
CREHT

>sp|Q8WXA8|5HT3C\_HUMAN 5-hydroxytryptamine receptor 3C OS=Homo sapiens GN=HTR3C PE=1 SV=2

MEGGWPARQSALLCLTVSLLLQGRGDAFTINCSGFDQHGVDPAVFQAVFDRKAFRPFTNY  
SIPTRVNISFTLSAILGVDAQLQLTSFLWMDLVWDNPFINWNPKECVGINKLTVLAENL  
WLPDIFIVESMDVDQTPSGLTAYISSEGRKYDKPMRVTSICNLDIFYFPFDQQNCTFTF  
SSFLYTVDSMLLGMDEKVEITDTSRKVIQTTQGEWELLGINKATPKMSMGNNLYDQIMFY  
VAIRRRPSLYIINLLVPSSFLVAIDALSFYLPASENRAFPKITLLLYNVFLLMMNDLL  
PASGTPLISVYFALCLSLMVVSLETVFITYLLHVATTQPPMPRWLHSLLLHCTSPGRC  
CPTAPQKGNKGLGLTLTHLPGPKPEGELAGKKLGPRETEPDGGSGWTKTQLMELWVQFSH  
AMDTLFRLYLLFMASILTIVLWNT

>sp|A5X5Y0|5HT3E\_HUMAN 5-hydroxytryptamine receptor 3E OS=Homo sapiens GN=HTR3E PE=1 SV=1

MEGSWFHRKRFSFYLLLGFLQGRGVFTINCSGFGHGADPTALNSVFNRKPFPRVPTNI  
SVPTQVNISFAMSAILDVNEQLHLLSSFLWLEMVWDNPFISWNPEECEGITKMSMAAKNL  
WLPDIFIIELMVDVKTPKGLTAYVSNAGRIRYKKPMKVDSICNLDIFYFPFDQQNCTLTF  
SSFLYTVDSMLLDMEKVEVEITDASRNILQTHGEWELLGLSKATAKLSRGGNLYDQIVFY

VAIRRRPSLYVINLLVPSGFLVAIDALSFYLPVKSGNRVPFKITLLLGYNVFLMMSDLL  
PTSGTPLIGVYFALCLSLMVGSLLETIFITHLLHVATTQPPPLPRWLHSLLLHCNSPGRC  
CPTAPQKENKGPGLTPTHLPGVKEPEVSAGQMPGPAAEELTGGSEWTRAQREHEAQKQHS  
VELWLQFSHAMDAMLFRLYLLFMASSIITVICLWNT

>sp|PODKL9|A14EL\_HUMAN ARL14 effector protein-like OS=Homo sapiens GN=ARL14EPL PE=4 SV=1  
MNEQSEKNNSIQERHTDHSFPEKNCQIGQKQLQQIERQLKCLAFRNPGPQVADFPETRQ  
QKKKARMSKMNEYFSTKYKIMRKYDKSGRLICNDADLDCLEKNCLGCFYPCPKCNSNKC  
GPECRCNRRWVYDAIVTESGEVISTLPFNVPD

>sp|P01009|A1AT\_HUMAN Alpha-1-antitrypsin OS=Homo sapiens GN=SERPINA1 PE=1 SV=3  
MPSSVSWGILLLAGLCLVPVSLAEDPQGDAQAQKTDTSHHDDHPTFNKITPNLAEFASF  
LYRQLAHQSNSTNIFFSPVSIATAFAMLSLGTKADTHDEILEGLNFNLTEIPEAQIHEGF  
QELLRTLNPDSQLQLTTGNGFLFSEGLKLVDFLEDVKKLYHSEAFVNFQDTEEAQKQ  
INDYVEKGTQGKIVDLVKELDRDTVFALVNYIFFKGKWERPFVVDTEEDFHVDQVTTV  
KVPMMKRLGMFNIQHCKKLSSVLLMKYLGNTAIFFLPDEGKLQHLENELTHDIIITKFL  
ENEDRRSASLHLPKLSITGTDLKSVLGGITKVFSNGADLSGVTEEAFLKLSKAVHKA  
VLTIDEKGTEAAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLFMGKVVNPTQK

>sp|Q8NF67|A2012\_HUMAN Putative ankyrin repeat domain-containing protein 20A12 pseudogene  
OS=Homo sapiens GN=ANKRD20A12P PE=5 SV=3  
MKEMYENAEDKVNNSGKWSCVEERICHLQHENPCIEQQDDVHQKEDHKEIVTNIQRGF  
IESGKKDLMLEEKNNKLMNECDHLKESLFQYEREKAERVVVVRQLQQAADSLKLTMLE  
SPLEGISHYHINDETQVPKKKLFQVESQFDDLMVEKEAVSSKCVNLAKENQVFQQKLLS  
MKKVQEQECKLEEDKKMLEEEILNLKTHMENSMLVELSKLQEKSELERAMQAVEKLEEI  
HLQEQAYKKQLEQLNKDIIQLH

>sp|Q9NPC4|A4GAT\_HUMAN Lactosylceramide 4-alpha-galactosyltransferase OS=Homo sapiens  
GN=A4GALT PE=2 SV=1  
MSKPPDLLLRLLRGAPRQRVCTLFIIIGFKFTFFVSIIMYWHVVGEPEKKGQLYNLPAEIP  
CPTLTPTPPSHGPTPGNIFLETSDRTNPNFLFMCVESAARTHPESHVLVLMKGLPGG  
NASLPRHLGISLLSCFPNVQMLPLDLRELFRDTPLADWYAAVQGRWEPYLLPVLSASRI  
ALMWKFGGIYLDTDIFVLKLNRLTNVLGTQSRVYVNGAFLAFERRHEFMALCMRDFVDH  
YNGWIWGHGQPQLLTRVFKKWCIRSLSAESRACRGVTTLPPEAFYPIPWQDWKKYFEDIN  
PEELPRLLSATYAVHVWNKKSQGRFEATSALLAQLHARYCPTTHEAMKMYL

>sp|Q96AP0|ACD\_HUMAN Adrenocortical dysplasia protein homolog OS=Homo sapiens GN=ACD PE=1  
SV=3  
MPGRCQSDAAMRVNGPASRAPAGWTSGSLHTGPRAGRPRQAQGVGRGLLLRPRPAKEL  
PLPRKGAWAPAGNPGLHPLGVAVGMAGSGRLVLRPWIRELILGSETPSSPRAGQLLEV  
LQDAEAAVAGPSHAPDTSVGTALLVSDGTHSVRCLVTREALDTSWEEKEFGFRGTEGR  
LLLLQDCGVHVQVAEGGAPAEFYLVDRFSLPTEQPRLRVPGCNQDLVDVQKKLYDCLEE  
HLSESTSSNAGLSLSQLLDEMREDQEHQALVCLAESCLTEGPCTAPPVTHWAASRCKA  
TGEAVYTPSSMLCISENDQLILSSLGPCQRTQGPELPPDPALQDLSLTLIASPPSSPS  
SSGTPALPGHMSSEESGTSISLLPALSLAAPDPGQRSSSQPSAICSA PATLT PRSPHAS  
RTPSSPLQSCTPSLSPRSHVPSPHQALVTRPQKPSLEFKEFVGLPCKNRPPFPRTGATRG  
AQEPCSVWEPPKRHRDGSFQYEEYPPCTSLCARVQAVRLPPQLMAWALHFLMDAQPGE  
PTPM

>sp|Q9BYF1|ACE2\_HUMAN Angiotensin-converting enzyme 2 OS=Homo sapiens GN=ACE2 PE=1 SV=2

MSSSSWLLLSLVAVTAQSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQ  
NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSSEDKSKRLNTIL  
NTMSTIYSTGKVCNPDNPQECLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY  
EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGLIEDVEHTFEEIKPLYEHL  
HAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPGQKPNIDVTDAMVDQ  
AWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILM  
CTKVTMDDFLTAHEMGIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS  
IGLLSPDFQEDNETEINFLKQALTIVGTLPTMYMLEKWRWMVFKGEIPKDQWMKKWEM  
KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFEALCQAAKHEGPLH  
KCDISNSTEAGQKLFNMLRLGKSEPWTALENNVGAKNMNVRPLLNYFEPLFTWLKDQNK  
NSFVGWSTDWSPYADQSIKVRISLKSALGDKAYEWNDEMYYLFRSSVAYAMRQYFLKVKN  
QMILFGEDVRVANLKPRI SFNFVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDN  
SLEFLGIQPTLGPPNQPPVSIWLIVFGVVMGVIVVGIVILIFTGIRDKKKKNKARSGENP  
YASIDISKGENNPGFQNTDDVQTSF

>sp|Q9NUN7|ACER3\_HUMAN Alkaline ceramidase 3 OS=Homo sapiens GN=ACER3 PE=1 SV=3

MAPAADREGYWGPTTSTLDWCEENYSVTWYIAEFWNTVSNLIMIIPPMFGAVQSVRDGLE  
KRYIASYLALTVVGMGSWCFHMTLKYEMQLLDELPMIYSCCIFVYCMFECFKIKNSVNYH  
LLFTLVLFSLIVTTVYLKVKEPIFHQVMYGMLVFTLVLRISIYIVTWVYPWLRGLGYTSLG  
IFLLGFLFWNIDNIFCESLRNFRKKVPPIIGITTQFHAWWHILTGLGSYLHILFSLYTRT  
LYLRYPKVKFLFGIWPVILFEPLRKH

>sp|Q05901|ACHB3\_HUMAN Neuronal acetylcholine receptor subunit beta-3 OS=Homo sapiens  
GN=CHRN3 PE=2 SV=2

MLPDFMLVLIVLGIPSSATTGFNSIAENEDALLRHLFQGYQKWVRPVLHSNDTIKVYFGL  
KISQLVDVDEKNQLMTTNVWLKQEWTDHKLWNPDDYGGIHSIKVPSESLWLPDIVLFEN  
ADGRFEGSLMTKVIKSNGTVVWTPPASYKSSCTMDVTFPPFDRQNCMSKFGSWTYDGT  
VDLILINENVDRKDFDNGEWEILNAKGMKGNRRDGVYSYPFITYSFVLRRLPLFYTLFL  
IIPCLGLSFLTIVLIFYLPSDEGEKLSLSTSVLVSFTVFLLVIEEIPSSSKVIPLIGEYL  
LFIMIFVTLISIIVTVFVINVHRRSSSTYHPMAPWVKRFLQKLPKLLCMKDHVDYSSPE  
KEESQPVVKGKVEKKKQKQSDGEKVLVAFLEKAADSIRYISRHVKKEHFISQVVDWK  
FVAQVLDRIFLWFLIVSVTGSVLIFTPALKMWLHSYH

>sp|Q07001|ACHD\_HUMAN Acetylcholine receptor subunit delta OS=Homo sapiens GN=CHRNA1 PE=1  
SV=1

MEGPVLTGLLAALAVCGSWGNEEERLIRHLFQEKGYNKELRPVAHKEESVDVALATL  
SNLISLKEVEETLTNNVWIEHGWTDNRLKWNAAEFGNISVLRLLPDMVWLPEIVLENNND  
GSFQISYSCNVLVYHYGFVYWLPPAIFRSSCPISVTYFPFDWQNCSLKFSSLYTAKEIT  
LSLKQDAKENRTYPVEWIIIDPEGFTENGWEIVHRPARVNVDPRAPLDSRQDITFY  
IIRKPLFYIINILVPCVLISFMVNLVLYLPADSGEKTSAISVLLAQSVFLLISKRLP  
ATSMAPLIGKFLFGMVLVTMVVICVIVLNIHFRTPTSTHVLSEGKFLFLETPELLH  
MSRPAEDGSPGALVRRSSSLGYISKAEEYFLLKSRSDLMFEKQSERHGLARRLTARRP  
PASSEQAQQLFNLKPAVDGANFIVNHMRDQNNYNEEKDSWNRVARTVDRCLFVVTPV  
MVVGTAWIFLQGVYNQPPQPPFGDPYSYNVQDKRFI

>sp|P07510|ACHG\_HUMAN Acetylcholine receptor subunit gamma OS=Homo sapiens GN=CHRNA1 PE=1  
SV=2

MHGGQGPLLLLLLLAVCLGAQGRNQEERLLADLMQNYDPNLRPAERDSVVNVSLKLTLT

NLISLNEREEALTTNVWIEQWCDYRLRWDPRDYEGWVLRVPSTMVWRPDIVLENNVDG  
VFEVALYCNVLVSPDGCYIWLPPAIFRSACISVITYFPFDWQNCSLIFQSQTYSTNEIDL  
QLSQEDGGQTIIEWIFIDPEAFTENGWEWAIQHRPAKMLLDPAAPAEAGHQKVVFYLLIQRK  
PLFYVINI IAPCVLISSVAILIHFLPAKAGGQKCTVAINVLLAQTVFLFLVAKKVPETSQ  
AVPLISKYLTFLLVVTILIVVNAVVLNVSLRSPHTHSMARGVRKVFLRLLPQLLRMHVR  
PLAPAAVQDTSRLQNGSSGSITTGEEVALCLPRSELLFQQWQRQGLVAAALEKLEKGP  
ELGLSQFCGSLKQAAPAIQACVEACNLIACARHQSSHFDNGNEEWFLVGRVLDRCFLAM  
LSLFCGTAGIFLMAHYNRVPALFPFGDPRPYLPSPD

>sp|Q07912|ACK1\_HUMAN Activated CDC42 kinase 1 OS=Homo sapiens GN=TNK2 PE=1 SV=3

MQPEEGTGWLELLSEVQLQQYFLRLRDDLVNTRLSHFEYVKNEDEKIGMGRPGQRRLW  
EAVKRRKALCKRKSWSKVFSGKRLEAEFPPHHSQSTFRKTSPAPGGPAGEGPLQSLTCL  
IGEKLRLLEKLDGDSFGVVRGEWDAPSGKTVSAVKCLKPDVLSQPEAMDDFIREVNA  
MHSLDHRNLI RLYGVVLTTPMKMVTTELAPLGSLLDRLRKHQGHFLLGTL SRYAVQVAEGM  
GYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDHYVMQEHKVPFAWCAPE  
SLKTRTFSHASDTWMFGVTLWEMFTYQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDI  
YNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFEEDPKLHIQMNVDVITVIEGRA  
ENYWWRGQNTRTL CVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGSDPRHCWGFPD  
RIDELYLGNPMDPPDLLSVELSTRPPQHLGGVKKPTYDPVSEDQDPLSSDFKRLGLRKP  
GLPRGLWLAKPSARVPGTKASRGSGAEVTLIDFGEEPVPALRPCAPSLAQLAMDACSL  
DETTPQSPTRALPRPLHPTPVVDWDARPLPPPAYDDVAQDEDDFEICSINSTLVGAGVP  
AGPSQGQNTYAFVPEQARPPPLEDNFLPPQGGGKPPSSAQTAEIFQALQQECMRQLQA  
PAGSPAPSPSPGGDDKPQVPPRPVIPP RPTRPHVQLSPAPPGEETSQWPGPASPPRVPP  
REPLSPQGSRTSPPLVPPGSSPLPRLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRA  
GPCILPIVRDGKKVSSTHYLLPERPSYLERYQRFLREASPEEPTPLPVPLLLPPPSTP  
AAPAPTATVRPMPQAALDPKANFSTNNSNPGARPPPPRATARLPQRGCPGDGPEAGRPAD  
KIQMAMVHGVTTEECQAALQCHGWSVQRAAQYLKVEQLFGLGLRPRGECHKVLEMFDFWNL  
EQAGCHLLGSWGAHHKR

>sp|Q16570|ACKR1\_HUMAN Atypical chemokine receptor 1 OS=Homo sapiens GN=ACKR1 PE=1 SV=3

MGNCLHRAELSPSTENSSQLDFEDVWNSSYGVNDSFPDGDYGANLEAAAPCHSCNLLDDS  
ALPFFILTSVLGILASSTVLFMLFRPLFRWQLCPGWPVLAQLAVGSALFSIVVPVLAPGL  
GSTRSSALCSLGYCVWYGSAFAQAALLGCHASLGHRLGAGQVPGLTLGLTVGIWGAALL  
TLPVTLASGASGGLCTLIYSTELKALQATHVACLAIFVLLPLGLFGAKGLKKALGMGPG  
PWMNILWAWFIFWWPHGVVGLDFLVRSKLLLLSTCLAQQALDLLNLAEALAILHCVAT  
PLLLALFCHQATRLLPSLPLPEGWSSHDLTLGSKS

>sp|P25106|ACKR3\_HUMAN Atypical chemokine receptor 3 OS=Homo sapiens GN=ACKR3 PE=1 SV=3

MDLHLFDYSEPGNFSDISWPCNSSDCIVVDVTCMNPMPNKSVELLYTSLFIYIFIVIGMI  
ANSVVVWVNIQAKTTGYDTHCYILNLAIDLWVVLTI PVVVVSLVQHNQWPMGELTCKVT  
HLIFSINLFGSIFFLTCMSVDRLSITYFTNTPSSRKKMVRVVCILVWLLAFCVSLPDT  
YYLKTVTSASNNETYCRSFYPEHSIKEWLIGMELVSVVLGFAVPFSIIAVFYFLLARATS  
ASSDQEKHSSRKIIFSYVVVFLVCWLPYHVAVLLDIFSILHYIPFTCRLEHALFTALHVT  
QCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYSAKTGLTKLIDASRVSETEYSALEQS  
TK

>sp|Q3I5F7|ACOT6\_HUMAN Putative acyl-coenzyme A thioesterase 6 OS=Homo sapiens GN=ACOT6  
PE=1 SV=1

MLQHPKVKGPSIALLGFSKGGDLCLSMASFLKGITATVLINACVANTVAPLHYKDMIIPK  
LVDDLGVKITKSGFLTMDTWSNPLEEHNHQS LVPLEKAQVPFLFIVGMDQSWKSEFY  
AQIASERLQAHGKERPQIICYPETGHCIDPPYFPPSRASVHAVLGEAIFYGGEPKAHKA  
QVDAWQQIQTFHKLNGKKS VKHSKI

>sp|Q15067|ACOX1\_HUMAN Peroxisomal acyl-coenzyme A oxidase 1 OS=Homo sapiens GN=ACOX1  
PE=1 SV=3

MNPDLRRERDSASFNPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRSQR  
YEVAVRKS AIMVKKMREFGIADPDEIMWFKKLHLVNFVEPVGLNYSMFIPTLLNQGT  
TAAQKEKWLSSKGLQIIGTYAQTEMGHGTHLRGLETTATYDPETQEFILNSPTVTSIK  
WWPGGLGKTSNHAIVLAQLITKGKCYGLHAFIVPIREIGTHKPLPGITVGDIGPKFGY  
DEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVKPLSNKLTYGTMVFRSFLVGEAAR  
ALSKACTIAIRYSAVRHQSEIKPGEPEPQILDFQTQQYKLFPLLATAYAFQFVGAYMK  
ETYHRINEGIGQGDLSPELHALTAGLKAFSTWANTGIEACRMACGGHGYSHCSGLPN  
IYVNFTPSCTFEGENTVMMLQTARFLMKSYDQVHSGKLVCGMVSYLNDLPSQRIQP  
QVAVWPTMVDINSPESL TEAYKLRAARLVEIAAKNLQKEVIHRKSKEVAWNLTSV  
DLVRASEAHCHYVVVKLFS EKLLKIQDKAIQAVLRSLCLLYSLYGISQAGDFLQGS  
IMTEPQITQVNQRVKELLTLIRSDAVALVDAFDFQDVTGLSVLGRYDGNVYENLFEW  
AKNSPLNKAEVHESYKHLKSLQSKL

>sp|Q9NUZ1|ACOXL\_HUMAN Acyl-coenzyme A oxidase-like protein OS=Homo sapiens GN=ACOXL  
PE=2 SV=3

MRALTVQRVKFAMDPLLLKRAGQDLAEKTKNFVSRSLVIGEVLSMADMATGVKCGI  
IYWLFGGAIRNLGSPEHVTKWFQPLQEYKTYGMFAMTERGHGSNARGIQTEATFDLSA  
QEFVIDTPCENAEKMYIGNAMYGNAAVFAQLIIDGRSQGPHCFIVPVRDENGSLYP  
GVT AIDMMYKEGLHGVNDGILIFDKVRIPRENLLDKFGSVAPDGQYHSPIRNKSAR  
FNAMLAALTPSRLAVAFQAMGAMKLGTLIAIRYSHSRRQFGPKTKEEVKIIEHQTQ  
TLRLMPHLATALALTFVSRYAGALLDEDFVQKELVNSRSLQALVAGLKAYSTWENIR  
CLQDCRECTGGMGYMMENRISGLKCDTDVFATFEGDDVVMQLQVVGRELLAQYTKQY  
EEKPLFGLLQNWAE SVGDKLRTSFLAFNMDTVDDLAFLLKAVKFRERVLQRGLVAR  
IYYKVKTKKEDFFHAWNSCLHHVASLSLAHTRVTLEQFSLAVKSCPDQEDQTLLM  
KFCLLYGTKLVFQERAWYLEHKYLT PMASTRIRNQERC

>sp|Q08AH3|ACSM2A\_HUMAN Acyl-coenzyme A synthetase ACSM2A, mitochondrial OS=Homo sapiens  
GN=ACSM2A PE=1 SV=2

MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLDHWAD  
MEKAGKRLPSPALWWVNGKGKELMWNFRELSSENSQQAANVLSGACGLQRGDRVAV  
VLPRVPEWWLVILGCIRAGLIFMPGTIQMKSTDILYRLQMSKAKAIVAGDEVIQEV  
DTVASECPSLRIKLLVSEKSCDGWLNFKKLLNEASTTHHCVETGSQEASAIYFTSGT  
SGLPKMAEHSYSSLGLKAKMDAGWTGLQASDIMWTISDTGWILNILCSLMEPWALG  
ACTFVHLLPKFDPLVILKTLSSYPIKSMMGAPIVYRMLLQQLSSYKFPHLQNCVTV  
GESLLPETLENWRAQTGLDIRESYGQTETGLTCMVSKTMKIKPGYMGTAASCYDVQI  
IDDKGNVLPPEGTEGDIGIRVKPIRPIGIFSGYVDNPDKTAANIRGDFWLLGDRG  
IKDEDDGYFQFMGRANDIINSSGYRIGPSEVENALMEHPAVVETAVISSPDVPRGE  
VVKAFVVLASQFLSHDPEQLTKELQQHVKSVTAPYKYPRKIEFVLNLPKTVTGKI  
QRAKL RDKEWKMSGKARAQ

>sp|Q4G176|ACSF3\_HUMAN Acyl-CoA synthetase family member 3, mitochondrial OS=Homo sapiens  
GN=ACSF3 PE=1 SV=3

MLPHVVLTFRRLGCALASCRLAPARHRGSGLLHTAPVARSDRSAPVFTRALAFGDRI  
ALV

DQHGRHTYRELYSRSLRLS QEICRLCGCVGGDLREERVSFLCANDASYVVAQWASWMSGG  
VAVPLYRKHPAAQLEYVICDSQSSVVLASQEYLELLSPVVRKLGVP LLPLTPAIYTGA VE  
EPAEVPVPEQGWRNKGAMI IYTS GTTGRPKGVLSTHQNIRAVVTGLVHKWAWTKDDVILH  
VLPLHHVHGVVNALLCPLWVGATCVMMPESFPQQVWEKFLSSETPRINVFMAVPTIYTKL  
MEYYDRHFTQPHAQDFLRVCEEKIRLMVSGSAALPLPVLEKWK NITGHTLLERYGMTEI  
GMALSGPLTTAVRLPGSVGTPLPGVQVRIVSENPREACSYTIHAEGDERG TKVTPGFEE  
KEGELLVRGPSVFREYWNKPEETKSAFTLDGWFKTGDTVVKDQGYWIRGRTSVDI IKTG  
GYKVSAL EVEWHLLAHP SITDVA VIGVPM TWGQ RVTAVVTLREGHSLSHRELKEWARNV  
LAPYAVPSELVLVEEIPRNQMGKIDKKALIRHFHPS

>sp|095573|ACSL3\_HUMAN Long-chain-fatty-acid--CoA ligase 3 OS=Homo sapiens GN=ACSL3 PE=1 SV=3

MNNHVSSKPSTMKLKHTINPILLYFIHFLISLYTILTYIPFYFFSES RQEKS NR IKA KPV  
NSKPDSAYRSVNSLDGLASVLYPGCDTLDKVFTYAKNKFKNKRL LGTREV LNEEDEVQPN  
GKIFKKVILGQYNWLSYEDVFVRAFNFNGNLQMLGQKPKTNIAIFCETRAEWMIAAQACF  
MYNFQLVTLTYATLGGAIVHALNETEVTNIITSKELLQTKLKDIVSLVPRLRHIITVDGK  
PPTWSEFPKGIIVHTMAAVEALGAKASMENQPHSKPLPSDIAVIMYTS GSTGLPKGVMIS  
HSNIIAGITGMAERIPELGEEDVYIGYLPLAHVLELSAELVCLSHGCRIGYSSPQTADQ  
SSKIKKSGSGDTSMLKPTLMAAVPEIMDRIYKNVMNKVSEMSSFQRNLFILAYNYKMEQI  
SKGRNTPLCDSFVFRKVRSLGGINRLLCGGAPLSATTQRFMNICCCPVGGYGLTES  
AGAGTISEVWDYNTGRVGAPLVCC EIKLNWEEGGYFNTDKPHPRGEILIGGSVTMGYY  
KNEAKTKADFFEDENGQRWLCTGDIGEFEPDGCLKIIDRKKDLVKLQAGEYVSLGKVEAA  
LKNLPLVDNICAYANSYHSYVIGFVVPNQKELTELARKKGLKGTWEELCNSCEMENEVLK  
VLSEAAISASLEKFEIPVKIRLSPEPWTPETGLVTD AFKLKRKELKTHYQADIERMYGRK

>sp|Q6P461|ACSM6\_HUMAN Acyl-coenzyme A synthetase ACSM6, mitochondrial OS=Homo sapiens GN=ACSM6 PE=2 SV=3

MLGRFQPFSLVRSFRLGFEACCPNQKCATQTIRPPDSRCLVQAVSQNFNAKDVLDQWS  
QLEKDGLRGYPALWKVS AKGEEDKWSFERMTQLSKKAASILSDTCALSHGDR LMIILPP  
TPEAYWICLACVRLGITFVPGSPQLTAKKIRYQLRMSKAQCIVANEAMAPVVNSAVSDCP  
TLTKLLVSDKSYDGWLD FKKL IQVAPPKQTYMRTKSQDPMAIFFTKGTTGAPKMVEYSQ  
YGLGMGFSQASRRWMDLQPTDVLWSLGDAFGGSLSLSAVLGTWFGACVFLCHMPTFCPE  
TVLNVLSRFPITTL SANPEMYQELLQHKCFTSYRFKSLKQCAAGGPISPGVIEDWK RIT  
KLDIYEGYGQTETGLLCATSKTIKLPSSLGKPLPPYIVQIVDENS NLLPPGEEGNIAIR  
IKLNQPASLYCPHMVSWEEYASARGHMLYLTGDRGIMDE DG YFWWSGRVDDVANALGQRL

>sp|P04439|1A03\_HUMAN HLA class I histocompatibility antigen, A-3 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTL LLLLLSGALALTQTWAGSHSMRYFFTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDQETRN VKAQSQTDRVDLGTLRGYNNQSEAGSHTIQ  
IMYGCDVGSDGRFLRGYRQDAYDGKDYIALNEDLRSWTAADMAAQITKRKWEAAHEAEQL  
RAYLDGTCVEWLRRLYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTEL VETRPAGDGT FQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEL  
SSQPTIPIVGIIAGLVLLGAVITGAVVAAVMWRRKSSDRKGGSYTAASSDSAQGS DVSL  
TACKV

>sp|Q96QU6|1A1L1\_HUMAN 1-aminocyclopropane-1-carboxylate synthase-like protein 1 OS=Homo sapiens GN=ACCS PE=1 SV=1

MFTLPQKDFRAPTTCLGPTCMQDLGSSHGEDLEGECSRKLDQKLPELRGVGDPAISSDT  
SYLSSRGRMIKWFWDSAEEGYRTYHMEYDEDEKNPSGIINLGTSENKLCFDLLSWRLSQR  
DMQRVEPSLLQYADWRGHLFLREEVAKFLSFYCKSPVPLRPENVVVLNGGASLFSALATV  
LCEAGEAFLIPTPYGAITQHVCYGNIRLAYVYLDSEVTGLDTRPFQLTVEKLEMALRE  
AHSEGKVKGLILISPQNPLGDVYSPEELQEYLVFAKRHLHVIVDEVYMLSVFEKSVGY  
RSVLSLERLPDPQRTHVMWATSKDFGMSGLRFGTLYTENQDVATAVASLCRYHGLSGLVQ  
YQMAQLLRDRDWINQVYLPENHARLKAHTYVSEELRALGIPFLSRGAGFFIWVDLRKYL  
PKGTFEEEMLLWRRFLDNKVLLSFGKAFECKEPGWFRFVFSQVHRLCLGMQRVQQVLAG  
KSQVAEDPRPSQSQEPSDQRR

>sp|P05534|1A24\_HUMAN HLA class I histocompatibility antigen, A-24 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFSTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDEETGKVKAHSQTDRENLRALRYYNQSEAGSHTLQ  
MMFGCDVGS DGRFLRGYHQYAYDGKDYLKEDLRSWTAADMAAQITKRKWEAAHVAEQQ  
RAYLEGTCVDGLRRYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWE  
SSQPTVPIVGIIAGLVLLGAVITGAVVA VMWRRNSSDRKGGSYSQAASSDSAQGS DVSL  
TACKV

>sp|P30450|1A26\_HUMAN HLA class I histocompatibility antigen, A-26 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDNRNTRNVKAHSQTDRLNLGTLRGYYNQSEDGSHITQ  
RMYGCDVGP DGRFLRGYQQDAYDGKDYLALNEDLRSWTAADMAAQITQRKWETAHEAEQW  
RAYLEGRCVEWLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA SVVVP SGQE QRYTCHVQHEGLPKPLTLRWE  
SSQPTIPIVGIIAGLVLF GAVIAGAVVA VMWRRKSSDRKGGSYSQAASSDSAQGS DMSL  
TACKV

>sp|P30457|1A66\_HUMAN HLA class I histocompatibility antigen, A-66 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDNRNTRNVKAHSQTDRLNLGTLRGYYNQSEDGSHITQ  
RMYGCDVGP DGRFLRGYQQDAYDGKDYLALNEDLRSWTAADMAAQITQRKWETAHEAEQW  
RAYLEGRCVEWLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA SVVVP SGQE QRYTCHVQHEGLPKPLTLRWE  
SSQPTIPIVGIIAGLVLF GAVIAGAVVA VMWRRKSSDRKGGSYSQAASSDSAQGS DMSL  
TACKV

>sp|P10316|1A69\_HUMAN HLA class I histocompatibility antigen, A-69 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDNRNTRNVKAHSQTDRLNLGTLRGYYNQSEAGSHTVQ  
RMYGCDVGS DWRFLRGYHQYAYDGKDYLKEDLRSWTAADMAAQTTKHKWEAAHVAEQL  
RAYLEGTCVEWLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVP SGQE QRYTCHVQHEGLPKPLTLRWE  
SSQPTIPIVGIIAGLVLF GAVITGAVVA VMWRRKSSDRKGGSYSQAASSDSAQGS DVSL



TACKV

>sp|Q95365|1B38\_HUMAN HLA class I histocompatibility antigen, B-38 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGYYDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWRNTQICKTNTQTYRENLRIALRYYNQSEAGSHTLQ  
RMYGCDVGPGRLLRGHNQFAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RTYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAASSDSAQGSVDVSL  
TA

>sp|P30480|1B42\_HUMAN HLA class I histocompatibility antigen, B-42 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGYYDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTLQ  
SMYGCDVGPGRLLRGHNQYAYDGKDYIALNEDLRSWTAADTAAQITQRKWEAARVAEQD  
RAYLEGTCVEWLRRLYLENGKDTLERADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGSVDVSL  
TA

>sp|P30484|1B46\_HUMAN HLA class I histocompatibility antigen, B-46 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLSGALALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASPRMAPRAPWIEQEGPEYWRDRETQKYKQAQTDRLSLNLRGYYNQSEAGSHTLQ  
RMYGCDVGPGRLLRGHDQSAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAAREAEQW  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGSVDVSL  
TA

>sp|Q04826|1B40\_HUMAN HLA class I histocompatibility antigen, B-40 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTLLLLWGAVALTETWAGSHSMRYFHTSVSRPGRGEPRFITVGYYDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWRDRETQISKNTNTQTYRESLRNLRGYYNQSEAGSHTLQ  
SMYGCDVGPGRLLRGHNQYAYDGKDYIALNEDLRSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGECVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGSVDVSL  
TA

>sp|P30492|1B54\_HUMAN HLA class I histocompatibility antigen, B-54 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTLLLLWGALALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTWQ  
TMYGCDLGPGRLLRGHNQLAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEEQRYTCHVQHEGLPKPLTLRWEP

SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGSVDVSL  
TA

>sp|P30495|1B56\_HUMAN HLA class I histocompatibility antigen, B-56 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTL L L L L L W G A L A L T E T W A G S H S M R Y F Y T A M S R P G R G E P R F I A V G Y V D D T Q F V R F  
D S D A A S P R E E P R A P W I E Q E G P E Y W D R N T Q I Y K A Q A Q T D R E S L R N L R G Y Y N Q S E A G S H T W Q  
T M Y G C D L G P D G R L L R G H N Q L A Y D G K D Y I A L N E D L S S W T A A D T A A Q I T Q R K W E A A R V A E Q L  
R A Y L E G L C V E W L R R Y L E N G K E T L Q R A D P P K T H V T H P I S D H E A T L R C W A L G F Y P A E I T L T  
W Q R D G E D Q T Q D T E L V E T R P A G D R T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P K P L T L R W E P  
S S Q S T I P I V G I V A G L A V L A V V V I G A V V A T V M C R R K S S G G K G G S Y S Q A A S S D S A Q G S D V S L  
T A

>sp|Q29718|1B82\_HUMAN HLA class I histocompatibility antigen, B-82 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTL L L L L L W G A L A L T E T W A G S H S M R Y F Y T A M S R P G R G E P R F I S V G Y V D D T Q F V R F  
D S D A A S P R E E P R A P W I E Q E G P E Y W D R N T Q I Y K A Q A Q T D R E S L R N L R G Y Y N Q S E A G S H T L Q  
R M F G C D L G P D G R L L R G H N Q L A Y D G K D Y I A L N E D L S S W T A A D T A A Q I T Q R K W E A A R V A E Q D  
R A Y L E D L C V E S L R R Y L E N G K E T L Q R A D P P K T H V T H P I S D H E A T L R C W A L G F Y P A E I T L T  
W Q R D G E D Q T Q D T E L V E T R P A G D R T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P K P L T L R W E P  
S S Q S T I P I V G I V A G L A V L A V V V I G A V V A T V M C R R K S S G G K G G S Y S Q A A S S D S A Q G S D V S L  
T A

>sp|Q29865|1C18\_HUMAN HLA class I histocompatibility antigen, Cw-18 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

M R V M A P R A L L L L L S G G L A L T E T W A C S H S M R Y F D T A V S R P G R G E P R F I S V G Y V D D T Q F V R F  
D S D A A S P R G E P R A P W V E Q E G P E Y W D R E T Q K Y K R Q A Q A D R V N L R K L R G Y Y N Q S E D G S H T L Q  
R M F G C D L G P D G R L L R G Y N Q F A Y D G K D Y I A L N E D L R S W T A A D T A A Q I T Q R K W E A A R E A E Q R  
R A Y L E G T C V E W L R R Y L E N G K E T L Q R A E H P K T H V T H P V S D H E A T L R C W A L G F Y P A E I T L T  
W Q W D G E D Q T Q D T E L V E T R P A G D G T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P L T L R W K P  
S S Q P T I P I V G I V A G L A V L V L A V L G A V V A V M C R R K S S G G K G G S C S Q A A S S N S A Q G S D E S  
L I A C K A

>sp|Q15172|2A5A\_HUMAN Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit alpha isoform OS=Homo sapiens GN=PPP2R5A PE=1 SV=1

M S S S P P A G A A S A I S A S E K V D G F T R K S V R K A Q R Q K R S Q G S S Q F R S Q G S Q A E L H P L P Q L K  
D A T S N E Q Q E L F C Q K L Q C C I L F D F M D S V S D L K S K E I K R A T L N E L V E Y V S T N R G V I V E S A Y  
S D I V K M I S A N I F R T L P P S D N P D F D P E E D E P T L E A S W P H I Q L V Y E F F L R F L E S P D F Q P S I A  
K R Y I D Q K F V Q Q L L E L F D S E D P R E R D F L K T V L H R I Y G K F L G L R A F I R K Q I N N I F L R F I Y E T  
E H F N G V A E L L E I L G S I I N G F A L P L K A E H K Q F L M K V L I P M H T A K G L A L F H A Q L A Y C V V Q F L  
E K D T T L T E P V I R G L L K F W P K T C S Q K E V M F L G E I E E I L D V I E P T Q F K K I E E P L F K Q I S K C V  
S S S H F Q V A E R A L Y F W N N E Y I L S L I E N I D K I L P I M F A S L Y K I S K E H W N P T I V A L V Y N V L K  
T L M E M N G K L F D D L T S S Y K A E R Q R E K K K E L E R E E L W K K L E E L K L K K A L E K Q N S A Y N M H S I L  
S N T S A E

>sp|P30153|2AAA\_HUMAN Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform OS=Homo sapiens GN=PPP2R1A PE=1 SV=4

M A A A G D D S L Y P I A V L I D E L R N E D V Q L R L N S I K K L S T I A L A L G V E R T R S E L L P F L T D T I Y  
D E D E V L L A L A E Q L G T F T T L V G G P E Y V H C L L P P L E S L A T V E E T V V R D K A V E S L R A I S H E H S

PSDLEAHFVPLVKRLAGGDWFTSRTSACGLFSVCYPRVSSAVKAELRQYFRNLCSDDTPM  
VRRAAASKLGEFAKVLVDNVKSEIIPMFSNLASDEQDSVRLAVEACVNIAQLLPQEDL  
EALVMPTRLQAAEDKSWRVRYMVDKFTTELQKAVGPEITKTDLVPAFQNLMKDCEAEVRA  
AASHKVKEFCENLSADCRENVIMSQILPCIKELVSDANQHVKSALASVIMGLSPILGKDN  
TIEHLLPLFLAQLKDECPEVRLNIISNLDCVNEVIGIRQLSQSLLPAIVELAEDAKWRVR  
LAIIEYMPLLAGQLGVEFFDEKLNSLCMAWLVDHVYAIREAATSNLKKLVEKFGKEWAHA  
TIIPKVLAMSGDPNYLHRMTTLFCINVLESEVCGQDITTKHMLPTVLRMAGDPVANVRFNV  
AKSLQKIGPILDNSTLQSEVKPILEKLTQDQDQDVKYFAQEALTVLSLA

>sp|P63151|2ABA\_HUMAN Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit  
B alpha isoform OS=Homo sapiens GN=PPP2R2A PE=1 SV=1

MAGAGGNDIQWCFQVKGAVDDDAEADIISTVEFNHSGELLATGDKGGRVVIFQQEQE  
NKIQSHSRGEYNVYSTFQSHEPEFDYLSLEIEEKINKIRWLPQKNAAQFLLSTNDKTIK  
LWKISERDKRPEGYNLKEEDGRYRDPPTVTTLRVPVFRPMDLMVEASPRRIFANAHTYHI  
NSISINSYETYLSADDLRINLWHLEITDRSFNIVDIKPANMEELTEVITAAEFHPNSCN  
TFVYSSSGGTIRLCDMRASALCDRHSKLFEEPEDPSNRSFFSEIISISDVKFSHSGRYM  
MTRDYLSVKIWDLMENRPVETYQVHEYLRSKLCSLYENDCIFDKFECCWNGSDSVMTG  
SYNNFFRMFDRNTRKRDITLEASRENNKPRTVLKPRKVCASGKRKKDEISVDSLDFNKKIL  
HTAWHPKENIIAVATTNNLYIFQDKVN

>sp|Q00005|2ABB\_HUMAN Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit  
B beta isoform OS=Homo sapiens GN=PPP2R2B PE=1 SV=1

MEEDIDTRKINNSFLRDHSYATEADIISTVEFNHTGELLATGDKGGRVVIFQREQESKNQ  
VHRRGEYNVYSTFQSHEPEFDYLSLEIEEKINKIRWLPQQNAAYFLLSTNDKTVKLWKV  
SERDKRPEGYNLKDEEGRLRDPATITTLRVPVLRPMDLMVEATPRRVFANAHTYHINSIS  
VNSDYETYMSADDLRINLWNFEITNQSFNIVDIKPANMEELTEVITAAEFHPHHCNTFVY  
SSSKGTIRLCDMRASALCDRHTKFFEEPEDPSNRSFFSEIISISDVKFSHSGRYIMTRD  
YLTVKVWDLNMENRIETYQVHDYLRSLKLCSLYENDCIFDKFECVWNGSDSVIMTGSYNN  
FFRMFDRNTRKRDVTLEASRENSKPRAILKPRKVCVGGKRRKDEISVDSLDFSKKILHTAW  
HPSENIIAVAATTNNLYIFQDKVN

>sp|P04229|2B11\_HUMAN HLA class II histocompatibility antigen, DRB1-1 beta chain OS=Homo  
sapiens GN=HLA-DRB1 PE=1 SV=2

MVCLKLPGGSCMTALTVTLMVLSSPLALAGDTRPRFLWQLKFECHFFNGTERVRLLERCI  
YNQEESVRFDSDVGEYRAVTELGRPDAEYWNSQKDLLEQRRAAVDTYCRHNYGVGESFTV  
QRRVEPKVTVYPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|P20039|2B1B\_HUMAN HLA class II histocompatibility antigen, DRB1-11 beta chain OS=Homo  
sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLRLPGGSCMAVLTVTLMVLSSPLALAGDTRPRFLEYSTSECHFFNGTERVRFDRYF  
YNQEEYVRFDSDVGEFRAVTELGRPDEEYWNSQKDFLEDRRAAVDTYCRHNYGVGESFTV  
QRRVHPKVTVYPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKTGTVSTGLIHNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFRNQKGHSGLQPRGFLS

>sp|Q9GIY3|2B1E\_HUMAN HLA class II histocompatibility antigen, DRB1-14 beta chain OS=Homo  
sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLRLPGGSCMAVLTVTLMVLSSPLALAGDTRPRFLEYSTSECHFFNGTERVRFLDRYF  
HNQEEFVRFDSDVGEYRAVTELGRPAAEHWSQKDLLERRRAEVDTYCRHNYGVVESFTV  
QRRVHPKVTVYPSKTQPLQHYNLLVCSVSGFYPGSIEVRWFRNGQEEKTGVVSTGLIHNG  
DWTFTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPRGFLS

>sp|Q5TYW2|A20A1\_HUMAN Ankyrin repeat domain-containing protein 20A1 OS=Homo sapiens  
GN=ANKRD20A1 PE=2 SV=1

MKLFGFGSRRGQTAQGSIDHVYTGSGYRIRDSELQKIHRAAVKGDAAEVERCLARRSGDL  
DALDKQHRTALHLACTSGHVQVVTLLVNRKCQIDVCDKENRTPLIQAVHCQEEACAVILL  
EHGANPNLKDIYGN TALHYAVYSESTSLAEKLLSHGAHIEALDKNNTPLLFAIICKKEK  
MVEFLLKKKASSHAVDRLRRSALMLAVYYDSPGIVNILLKQNI DVFAQDMCGRDAEDYAI  
SHHLTKIQQQILEHKKKILKKEKSDVGSSDES AVSIFHEL RVDSLPASDDKDLNVATKQC  
VPEKVSEPLPGSSHEKGNRIVNGQGEGPPAKHPSLKPSTEVEDPAVKGAVQRKNVQTLRA  
EQALPVASEEEQERHERSEKKQPQVKEGNNTNKSEKIQLSENICDSTSSAAAGRLTQQRK  
IGKTPQQFPKKLKEEHDRCTLKQENEEKTNVNMLYKKNREELERKEKQYKKEVEAKQLE  
PTVQSLEMKSKTARNTPNWDFHNHEEMKGLMDENCILKADIAILRQEICTMKNDNLEKEN  
KYLKDIKIVKETNAALEKYIKLNEEMITETA FRYQQELNDLKAENTRLNAELLKEKESKK  
RLEADIESYQSRLAAAI SKHSESVKTERNLKLALERTDVS VQVEMSSAISKVKAENEFL  
TEQLSETQIKFNALKDKFRKTRDSL RKKSLALETVQNDLSQTQQQTQEMKEMYQNAEAKV  
NNSTGKWNCVEERICH LQRENAWL VQQLDDVHQKEDHKEIVTNIQRGFIESGKKDLVLEE  
KSKKLMNECDHLKESLFQYEREKTEGVVSIKEDKYFQTSRKT I

>sp|A0PJZ0|A20A5\_HUMAN Putative ankyrin repeat domain-containing protein 20A5 OS=Homo  
sapiens GN=ANKRD20A5P PE=5 SV=1

MKLFGFRSRRGQTVLGSIDHLYTGSGYRIRYSELQKIHKAAVKGDAAEEMERCLARRSGDL  
DALDKQHRTALHLACASGHVQVVTLLVNRKCQIDIYDKENRTPLIQAVHCQEEACAVILL  
EHGANPNLKDIYGN TALHYAVYSESTSLAEKLLFHGENIEALDKV

>sp|Q6PD74|AAGAB\_HUMAN Alpha- and gamma-adaptin-binding protein p34 OS=Homo sapiens  
GN=AAGAB PE=1 SV=1

MAAGVPCALVTSCSSVFSGDQLVQHILGTEDLIVEVTSNDAVRFYPTIDNKYYSADINL  
CVVPNKFLVTAIEIAESVQAFVVYFDSTQKSGLDSVSSWLPLAKAWLPEVMILVCDRVSED  
GINRQKAQEWC IKHGFELVELSPEELPEEDDDFPESTGVKRIVQALNANVWSNVVMKNDR  
NQGFSLLSLTGTNHSIGSADPCHPEQPHLPAADSTESLSDHGGASNTTDAQVDSIVDP  
MLDLDIQELASLT TGGGDVENFERLFSKLKEMKDKAATLPHEQRKVHAEKVAKAFWMAIG  
GDRDEIEGLSSDEEH

>sp|Q9Y312|AAR2\_HUMAN Protein AAR2 homolog OS=Homo sapiens GN=AAR2 PE=1 SV=2

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPKFRGVKMIPPGIHFLHY  
SSVDKANPKEVGPRMGFFLSLHQGLTVLRWSTLREEVDLSPAPESEVEAMRANLQELDQ  
FLGPYPYATLKKWISLTNFISEATVEKLQPENRQICAFSDVLPVLSMKHTKDRVGQNLPR  
CGIECKSYQEGLARLP EMKPRAGTEIRFSELPTQMFPEGATPAEITKHSMDLSYALETVL  
NKQFPSSPQDVLGELQFAFVCFL LGNVYEAFEHWKRLNLLCRSEAA MMKHHTLYINLIS  
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSI AVDATLRKKA EK FQAHLTKKFR  
WDFAAEPEDCAPVVVELPEGIEMG

>sp|P31941|ABC3A\_HUMAN DNA dC->dU-editing enzyme APOBEC-3A OS=Homo sapiens GN=APOBEC3A  
PE=1 SV=3

MEASPASGPRHLMDFHIFTSNFNNGIGRHKTYLCYEVERLDNGTSVKMDQHRGFLHNQAK  
NLLCGFYGRHAELRFLDLVPSLQLDPAQIYRVTWFIISWSPCFSWGCAEVRAFLQENTHV  
RLRIFAARIYDYDPLYKEALQMLRDAGAQVSIMTYDEFKHCWDTFVDHQGCPFQPWDGLD  
EHSQALSGRLRAILQNQGN

>sp|Q9HC16|ABC3G\_HUMAN DNA dC->dU-editing enzyme APOBEC-3G OS=Homo sapiens GN=APOBEC3G  
PE=1 SV=1

MKPHFRNTVERMYRDTFSYNFYNRPILSRRNTVWLCYEVKTKGPSRPPLDAKIFRGQVYS  
ELKYHPEMRFFHWFWSKWRKLHRDQEYEVTWYISWSPCTKCTRDMATFLAEDPKVTLTIFV  
ARLYYFWDPDYQEALRSLCQKRQDPRATMKIMNYDEFQHCWSKFVYSQRELFEPPWNNLPK  
YYILLHIMLGEILRHSMDPPTFTFNFNNEPWVRGRHETLYLCYEVERMHNDTWVLLNQRRG  
FLCNQAPHKHGFLGRHAELCFLDVIPFWKLDLDQDYRVTCFTSWSPCFSCAQEMAKFIS  
KNKHVSLCIFTARIYDDQGRCEGLRTLAEAGAKISIMTYSEFKHCWDTFVDHQGCPFQ  
WDGLDEHSQDLSGRLRAILQNQEN

>sp|Q6NTF7|ABC3H\_HUMAN DNA dC->dU-editing enzyme APOBEC-3H OS=Homo sapiens GN=APOBEC3H  
PE=1 SV=3

MALLTAETFRLQFNNKRRLRRPYPRKALLCYQLTPQNGSTPTRGYFENKKKCHAEICFI  
NEIKSMGLDETQCYQVTCYLTWSPCSSCAWELVDFIKAHDHLNLGIFASRLYYHWCKPQQ  
KGLRLLCGSQVPVEVMGFPAFCWENFVDHEKPLSFNPYKMLEELDKNRAIKRRLERI  
KIPGVRAQGGRYMDILCDAEV

>sp|O75027|ABC7\_HUMAN ATP-binding cassette sub-family B member 7, mitochondrial OS=Homo  
sapiens GN=ABC7 PE=1 SV=2

MALLAMHSWRWAAAAAAFEKRRHSAILIRPLVSVSGSPQWRPHQLGALGTARAYQIPES  
LKSITWQRLGKGNQGLDAAKALQVWPLIEKRTCWHGHAGGGLHTDPKEGLKDVDTRKI  
IKAMLSYVWPKDRPDLRARVAISLGLGGAAMNIVVPFMFKYAVDSLQMSGNMLNLS  
APNTVATMATAVLIGYGVSRAGAAFFNEVRNAVFGKVAQNSIRRIAKNVFLHLHNLDLGF  
HLRQTGALSKAIDRGRGISFVLSALVFNLPIIMFEVMLVSGVLYYKCGAQFALVTLGT  
LGTYTAFTVAVTRWRTRFRIEMNKADNDAGNAAIDSLLNYETVKYFNNEREYEAQRYDGFL  
KTYETASLKSTSTLAMLNFGQSAIFSVGLTAIMVLASQGIVAGTLTVGDLVMVNGLLFQL  
SLPLNFLGTVYRETRQALIDMNTLFTLLKVDTQIKDKVMASPLQITPQTATVAFDNVHFE  
YIEGQKVLSGISFEVPAGKKVAIVGGSGSGKSTIVRLLFRFYEPQKGSYLAGQNIQDVS  
LESRRRAVGVPQDAVLFHNTIYYNLLYGNISASPEEVYAVAKLAGLHDAILRMPHGYDT  
QVGERGLKLSGGEKQRAIARAILKDPVILYDEATSSLDSTEETILGAMKDVVKHRTS  
IFIAHRLSTVVDADIIVLDQGKVAERGTHHGLLANPHSIYSEMWHQSSRVQNHDPKW  
EAKKENISKEERKKLQEEIVNSVKGCGNCSC

>sp|P33897|ABCD1\_HUMAN ATP-binding cassette sub-family D member 1 OS=Homo sapiens GN=ABCD1  
PE=1 SV=2

MPVLSRPRPWRGNTLKRTAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGV  
AAAKAGMNRVFLQRLWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVARLDGRLAR  
CIVRKDPRAFGWQLLQWLLIALPATFVNSAIRYLEGQLALSFRSRLVAHAYRLYFSQQTY  
YRVSNMDGRLRNPQSLTEDVVAFAASVAHLYSNLTKPLLDVAVTSYTLRAARSRGAGT  
AWPSAIAGLVVFLTANVLAFAFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE  
VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVPIITATGYSES  
DAEAVKKAALKEKEELVSETEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVH  
EMFQVFEDVQRCHFKRPRELEDAQAGSGTIGRSGVRVEGPLKIRGQVVDVEQGIICENIP

IVTPSGEVVVASLNIRVEEGMHLLITGPNCGCKSSLFRILGGLWPTYGGVLYKPPQRMF  
YIPQRPYMSVGSRLDQVIYPDSDVMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCD  
WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHR  
PSLWKYHHTLLQFDGEGGWKFELDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQIL  
GEAVAPAHVPAPSPQGPGLQGAST

>sp|Q9UBJ2|ABCD2\_HUMAN ATP-binding cassette sub-family D member 2 OS=Homo sapiens GN=ABCD2  
PE=1 SV=1

MTHMLNAAADRVKWRSSAAKRAACLVAAYALKTLPIIGKRLKQSGHGKKKAAAYPAA  
ENTEILHCTETICEKPSPGVNADFFKQLELRKILFPKLVTTETGWLCLHSVALISRTFL  
SIYVAGLDGKIVKSIVEKKPRTFIKLIKWLMIAPATFVNSAIRYLECKLALAFRTRLV  
DHAYETYFTNQTYKVINMDGRLANPDQSLTEDIMMFSQVAHLYSNLTKPILDVMLTSY  
TLIQTATSRGASPIGPTLLAGLVVYATAKVLKACSPKFGKLVAEEAHRKGYLRYVHSRII  
ANVEEIAFYRGHKVEMKQLQKSYKALADQMNLILSKRLWYIMIEQFLMKYVWSSSGLIMV  
APIIITATGFADGEDGQKQVMVSETEAFTTARNLLASGADAIERIMSSYKEVTELAGYT  
ARVYNMFVWFDEVRGIYKRTAVIQESESHKNGAKVELPLSDTLAIKGKVIDVDHGIIC  
ENVPIITPAGEVVASRLNFKVEEGMHLLITGPNCGCKSSLFRILSGLWPVYEGVLYKPPP  
QHMFYIPQRPYMSLGSRLDQVIYPDSDVMDHDKGYTDQDLERILHNHLYHIVQREGGWD  
AVMDWKDVLSGGEKQRMGMARMFYHKPKYALLDECTSAVSIDVEGKIFQAAKGAGISLLS  
ITHRPSLWKYHHTLLQFDGEGGWRFELDTAIRLTLSEEKQKLESQLAGIPKMQRRLNEL  
CKILGEDSVLKTIKNEDETS

>sp|Q6UXT9|ABH15\_HUMAN Protein ABHD15 OS=Homo sapiens GN=ABHD15 PE=1 SV=2

MPPWGAALALILAVLALLGLLGPRLRGPWGRAVGERTLPGAQDRDDGEEADGGGPADQFS  
DGREPLPGGCSLVCKPSALAQCLLRALRRSEALEAGPRSWFSGPHLQTLCHFVLPVAPGP  
ELAREYLQADDGLVALDWVVGPCVRGRRITSAGGLPAVLLVIPNAWGRLTRNVLGLCLL  
ALERGYYPVIFHRRGHGCPVSPRLQPFQDPSDLKEAVTYIRFRHPAAPLFAVSEGS  
ALLSYLGECCSSSYVTGAACISPVLRCREWFEAGLPWPYERGFLHQAIALSRYATALE  
DTVDTSRFRSRSLREFEEALFCHTKSFPISWDTYWDRNDPLRDVDEAAVPVLCICSADD  
PVCPPDHTLTTELFSNPFYFLLSRHGGHCGFLRQEPLPAWSHEVILESFRALTEFFR  
TEERIKLSRHRASFLGRRRRGGALQRREVSSSSNLEEIFNWKRSYTR

>sp|Q9GSE0|ABHD1\_HUMAN Protein ABHD1 OS=Homo sapiens GN=ABHD1 PE=1 SV=2

MLSSFLSPQNGTWADTFSLLLALAVALYLGYYWACVLQRPRLVAGPQFLAFLEPHCSITT  
ETFYPTLWCFEGRQSIFQVLLQSQPLVLYQSDILQTPDGGQLLLDWAKQPDSSQDPDPT  
TQPIVLLLPGITGSSQDITYVLHLVNQALRDGYQAVVFNNRGCERGEELRTHRAFCASNTED  
LETVNVHIKHRYPQAPLLAVGISFGGILVLNHLAQARQAAGLVAALTLSACWDSFETTRS  
LETPLNSLLFNQPLTAGLCQLVERNKRKIEKVVDIDFVLQARTIRQFDERYTSVAFGYQD  
CVTTYKAAASPRTKIDAIRIPVLYLSAADDPFSPVCALPIQAAQHSPYVALLITARGGHIG  
FLEGLLPWQHWMYRLLHQYAKAIFQDPEGLPDLRALLPSEDNRN

>sp|P08910|ABHD2\_HUMAN Monoacylglycerol lipase ABHD2 OS=Homo sapiens GN=ABHD2 PE=1 SV=1

MNAMLETPELPAVFDGVKLAAVAALVYIVRCLNLKSPTAPPDLYFQDSGLSRFLKSCP  
LLTKEYIPPLIWGKSGHIQTALYGKMGRVRSHPYGHKRFITMSDGTSTFDLFEPLAEH  
CVGDDITMVICPGIANHSEKQYIRTFVDYAQKNGYRCAVLNHLGALPNIELTSPRMFTYG  
CTWEFGAMVNYIKKTYPLTQLVVVGSFSLGGNIVCKYLGETQANQEKVLCVSVCCQYSAL  
RAQETFMQWDQCRRFYNFLMADNMKKIILSHRQALFGDHVKPKQSLEDTDL SRLYTATSL  
MQIDDNVMRKFHGYNSLKEYEEEECMRYLHRIYVPLMLVNAADDPLVHESLLTIPKSLS

EKRENVMFVLPLHGGHLGFFEGSVLFPEPLTWMDKLVVEYANAICQWERNKLQCSDEQV  
EADLE

>sp|P00519|ABL1\_HUMAN Tyrosine-protein kinase ABL1 OS=Homo sapiens GN=ABL1 PE=1 SV=4

MLEICLKLVGCKSKKGLSSSSCYLEEALQRPVASFEPQGLSEAARWNSKENLLAGPSE  
NDPNLFVALYDFVASGDNTLSITKGEKLRVLGYNHNGEWCEAQTKNGQGWVPSNYITPVN  
SLEKHSWYHGPVSRNAAEYLLSSGINGSFLVRESESSPGQRSISLRYEGRVYHYRINTAS  
DGKLYVSSESRFNTLAELVHHHSTVADGLITTLHPAPKRNKPTVYGVSPNYDKWEMERT  
DITMKHKLGGGQYGEVYEGVWKYSLTVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQ  
LLGVCTREPPFYIITEFMTYGNLLDYLRECNRQEVNAVVLlyMATQISSAMEYLEKKNFI  
HRDLAARNCLVGENHLVKVADFGLSRLMTGDTYTAHAGAKFPIKWTAPESLAYNKFSIKS  
DVWAFGVLLWEIATYGMSPYPGIDLSQVYELLEKDYRMERPEGCPEKVYELMRACWQWNP  
SDRPSFAEIHQAFETMFQESSISDEVEKELGKQGVRGAVSTLLQAPELPTKTRTSRRAAE  
HRDTTDVPMPHSGKGQGESDPLDHEPAVSPLLPRKERGPPEGGLNEDERLLPKDKKTNLF  
SALIKKKKKTAPTPPKRSSSFREMDGQPERRGAGEEEGRDISNGALFTPLDTADPAKSP  
KPSNGAGVPNGALRESGGSGFRSPHLWKKSSTLTSSRLATGEEEGGSSSKRFLRSCSAS  
CVPHGAKDTEWRSVTLPRDLQSTGRQFDSSTFGGHKSEKPALPRKRAGENRSDQVTRGTV  
TPPPRLVKKNEEAADEVFKDIMESSPGSSPPNLTPKPLRRQVTVAPASGLPHKEEAGKGS  
ALGTPAAAEPVTPTS KAGSGAPGGTSKGPAEESRVRHKKHSSSPGRDKGKLSRLKPAPP  
PPPAASAGKAGGKPSQSPSQEAAGEAVLGAKTKATSLVDVNDAKPSQPGEGLKKPV  
PATPKPQSAKPSGTPISPAPVPSTLPSASSALAGDQPSSTAFIPLISTRVSLRKTRQPPE  
RIASGAITKGVLVDSTEALCLAISRNEQMASHSAVLEAGKNLYTFCVSYVDSIQQMRNK  
FAFREAINKLENNLRELQICPATAGSGPAATQDFSKLLSSVKEISDIVQR

>sp|Q9P1F3|ABRACL\_HUMAN Costars family protein ABRACL OS=Homo sapiens GN=ABRACL PE=1 SV=1

MNVDHEVNLLVEEIHRLGSKNADGKLSVKFGVLFRRDDKCANLFEALVGTLKAARRKIVT  
YPGELLQGVHDDVDIILLQD

>sp|Q12979|ABR\_HUMAN Active breakpoint cluster region-related protein OS=Homo sapiens  
GN=ABR PE=2 SV=2

MEPLSHRGLPRLSWIDTLYSNFSYGTDEYDGEENEEQKGPPEGSETMPYIDESPTMSPQL  
SARSQGGGDGVSPTPPEGLAPGVEAGKGLEMRKLVLSGFLASEEIIYNQLEALLPMKPL  
KATATTSQPVLTIIQIETIFYKIQDIYEIHKEFYDNLCPKVQQWDSQVTMGHLFQKLASQ  
LGVYKAFVDNYKVALETAEKCSQSNQFQKISEELKVKGPKDSKDSHTSVTMEALLYKPI  
DRVTRSTLVLDLHKHTPVDHPDYPLLQDALRISQNFSSINEDIDPRRTAVTTPKGETR  
QLVKDGFLVEVSESSRKL RHVFLFTDVLLCAKLKKTSAKGHQYDCKWYIPLADLVFPSP  
EESEASPQVHPFPDHELEDMMKMSALKSEIQKEKANKGQSRAIERLKKKMFENEFLLLL  
NSPTIPFRIHNRNGKSYLFLSSDYERSEWREAIQKLQKKDLQAFVLSSVELQVLTGSCF  
KLRTVHNIPVTSNKDDDESPGLYGFLHVIHSAKGFKQSANLYCTLEVDSFGYFVSKAKT  
RVFRDTAEPKWDEEFIEIEGQSRLILCYEKCYDKTKVNKNNEIVDKIMGKGQIQLDP  
QTVETKNWHTDVIEMNGIKVEFSMKFTSRDMSLKRTPSKKQTVFGVKISVVTKRERSKV  
PYIVRQCVEEVEKRGIEEVGIYRISGVATDIIQALKAVFDANNKDILLMLSDMDINAIAGT  
LKLYFRELPELLTDRLYPAFMEGIALSDPAAKENCMHLLRSLPDPNLITFLFLEHLK  
RVAEKEPINKMSLHNLATVFGPTLLRPSEVESKAHLTSAADIWSDVMAQVQVLLYYLQH  
PPISFAELKRNTLYFSTDV

>sp|Q96P50|ACAP3\_HUMAN Arf-GAP with coiled-coil, ANK repeat and PH domain-containing  
protein 3 OS=Homo sapiens GN=ACAP3 PE=1 SV=2

MTVEFEECVKDSPRFRATIDEVETDVVEIEAKLDKLVKLCSGMVEAGKAYVSTSRLFVSG  
VRDLSQQCQGDTVISECLQRFADSLQEVVNYHMILFDQAQRSVRQQLQSFVKEDVRKFKE  
TKKQFDKVRLEDLELSLVRNAQAPRHRPHEVEEATGALTLTRKCFRHLALDYVLQINVLQA  
KKKFEILDSMLSFMHAQSSFFQGYSLHLQDPYMKKLAELDQLVIDSAVEKREMERKH  
AAIQQRTLLQDFSYPDESKVEFDVDAPSGVMEGYLFKRASNAFKTNRRWFSIQNSQLVY  
QKKLKDALTVVDDLRLCSVKPCEDIERRFCFEVLSPTKSCMLQADSEKLRQAWVQAVQA  
SIASAYRESPDSCYSERLDRTASPSTSSIDSATDTRERGVKGESVLQRVQSVAGNSQCGD  
CGQPDPRWASINLGVLLCTECSGIHRSLGVHCSKVRSLTLDSEPELLKLMCELGNSAVN  
QIYEAQCEGAGSRKPTASSSRQDKEAWIKDKYVEKKFLRKAPMAPALEAPRRWRVQKCLR  
PHSSPRAPTARRKVRLEPVLPCVAALSSVGTDRKFRDLSLFCPELDSLSYFDAGAAG  
AGPRSLSSDGLGGSSDSDVLAFGSGSVVDSVTEEEGAEESESSGEADGDTEAEAWGL  
ADVRELHPGLLAHRAARARDLPALAAALAHGAENVWADAEDGKTPLVQAVLGGSLIVCE  
FLLQNGADVNRDSRGRAPLHHATLLGRTGQVCLFLKRGADQHALDQEQRDPLAIAVQAA  
NADIVTLLRLARMAEEMREAEAAPGPPGALAGSPTTELQFRRCIQEFISLHLEES

>sp|Q8TDN7|ACER1\_HUMAN Alkaline ceramidase 1 OS=Homo sapiens GN=ACER1 PE=2 SV=1

MPSIFAYQSSEVDWCESNFQYSELVAEFYNTFSNIPFFIFGPLMMLMHPYAQKRSRYIY  
VVWVLFMIIGLFSMYFHMTLSFLGQLLDEIAILWLLGSGYSIWMPRCYFPSFLGGRSQF  
IRLVFITTVVSTLLSFLRPTVNAYALNSIALHILYIVCQEYRKTSNKELRHLIEVSVVLW  
AVALTSWISDRLLCSFWQRIHFFYLHSIWHVLISITFPYGMVTMALVDANYEMPGETLKV  
RYWPRDSWPVGLPYVEIRGDDKDC

>sp|Q5QJU3|ACER2\_HUMAN Alkaline ceramidase 2 OS=Homo sapiens GN=ACER2 PE=1 SV=2

MGAPHWWDLQAGSSEVDWCEDNYTIVPAIAEFYNTISNVLFFILPPICMCLFRQYATCF  
NSGIYLIWTLLVVGIGSVYFHATLSFLGQMLDELAVLWVLMCALAMWFPRRYLPKIFRN  
DRGRFKVVVSVLSAVTTCALFVKPAINNISLMTLGVPCTALLIAELKRCNMRVFKLGLF  
SGLWWTALFCWISDRAFCELLSSFNFPYLHCMWHILICLAAYLGCVCFAFYFDAASEIPE  
QGPVIKFWPNEKWAFIGVPYVSLLCANKKSSVKIT

>sp|P22303|ACES\_HUMAN Acetylcholinesterase OS=Homo sapiens GN=ACHE PE=1 SV=1

MRPPQCLLHTPSLASPLLLLLLWLLGGGVGAEGREDAELLVTVRGGRLRGIRLKTGPGPV  
SAFLGIPFAEPPMGPRRFLPPEPKQPWSGVVDATTFQSVCYQYVDTLYPGFEGTEMWNP  
RELSEDCLYLNWTPYRPTSPTPVLVWIYGGGFYSGASSLDVYDGRFLVQAERTVLVSM  
NYRVGAFGFLALPGSREAPGNVGLLDQRLALQWVQENVAAFGGDPTSVTLFGESAGAASV  
GMHLLSPSRGLFHRAVLQSGAPNGPWATVGMGEARRRATQLAHLVGCPPGGTGGNDEL  
VACLRTPAQVLNHEWHVLPQESVFRFSFVPVVDGDFLSDTPEALINAGDFHGLQVLVG  
VVKDEGSYFLVYGAPGFSKDNESLISRAEFLAGVRVGVPQVSDLAEEAVVLHYTDWLHPE  
DPARLREALSDVVGDNVVCVPAQLAGRLAAQGARVYAYVFEHRASTLSWPLWMGVPHGY  
EIEFIFGIPLDPSRNYTAEKIFAQRLMRYWANFARTGDPNEPRDPKAPQWPPYTAGAQQ  
YVSLDLRPLEVRRGLRAQACAFWNRLPKLLSATDTLDEAERQWKAEFHRWSSYMVHWKN  
QFDHYSKQDRCSDL

>sp|P12821|ACE\_HUMAN Angiotensin-converting enzyme OS=Homo sapiens GN=ACE PE=1 SV=1

MGAASGRRGPGLLLPLPLLLLPQPALALDPGLQPGNFSADEAGQLFAQSYNSSAEQV  
LFQSVAAASWAHDTNITAENARRQEAAALLSQEFAEAWGQKAKELYEPIWQNFTDPQLRRI  
IGAVRTLGSANLPLAKRQQYNALLSNMSRIYSTAKVCLPNKTATCWSLDPDLTNILASSR  
SYAMLLFAWEGWHNAAGIPLPLYEDFTALSNEAYKQDGFDTGAYWRSWYNSPTFEDDL  
EHLYQQLEPLYLNLHAFVRRALHRRYGDYINLRGPIPAHLLGDMWAQSWENIYDMVVPF



PDKPNLDVTSTMLQQGWNATHMFRVAEEFFTSLELSPMPPEFWEGSMLEKPADGREVVCH  
ASAWDFYNRKDFRIKQCTRVTMDQLSTVHHMGHIQYYLQYKDLPVSLRRGANPGFHEAI  
GDVLALSVSTPEHLHKIGLLDRVTNDTESDINYLLKMALEKIAFLPFGYLVQWRWGVFS  
GRTPPSRYNFDWWYLRTKYQGICPPVTRNETHFDAGAKFHVPNVTPYIRYFVSFVLQFQF  
HEALCKEAGYEGPLHQCDIYRSTKAGAKLRKVLQAGSSRPWQEVLDKMDVGLDALDAQPLL  
KYFQPVTQWLQEQNQNGEVLGWPEYQWHPPLPDNYPEGIDLVTDEAEASKFVEEYDRTS  
QVVWNEYAEANWNYNTNITTETSKILLQKNMQIANHTLKYGTQARKFDVNQLQNTTIKRI  
IKKVQDLERAALPAQELEEYNKILLDMETTSVATVCHPNGSCLQLEPDLTNVMATSRKY  
EDLLWAWEGWRDKAGRAILQFYPKYVELINQAARLNGYVDAGDSWRSMYETPSLEQDLER  
LFQELQPLYLNLHAYVRRALHRHYGAQHINLEGP IPAHLGNNMAQTWSNIYDLVVPFPS  
APSMDTTEAMLKQWTPRRMFKEADFFTSLGLLPVPPEFWNKSMLKPTDGREVVCHAS  
AWDFYNGKDFRIKQCTTVNLEDLVVAHHEMGHIQYFMQYKDLPVALREGANPGFHEAIGD  
VLALSVSTPKHLHSLNLLSSEGGSDHDIINFLMKMALDKIAFIPFSYLVQWRWRVFDGS  
ITKENYNQEWWSRLKYQGLCPPVPRTQGDGDPGAKFHIPSSVPYIRYFVSFI IQFQFHE  
ALCQAAGHTGPLHKCDIYQSKEAGQRLATAMKLGFSPWPPEAMQLITGQPNMSASAMLSY  
FKPLLDWLRTENELHGEKLGWPQYNWTPNSARSEGPLPDSGRVSFLGLDLDAQQARVGQW  
LLLFLGIALLVATLGLSQRLFSIRHRSLSHRHSHGPGFGSEVELRHS

>sp|P43681|ACHA4\_HUMAN Neuronal acetylcholine receptor subunit alpha-4 OS=Homo sapiens  
GN=CHRNA4 PE=1 SV=2

MELGGPGAPRLLPPLLLLLGTGLLRASSHVETRAHAERLLKKLFSGYNKWSRPVANISD  
VVLVRFGLSIAQLIDVDEKNQMMTTNVWVKQEWHDYKLRWDPADYENVTSIRIPSELIWR  
PDIVLYNNADGDFAVTHLTKAHLFHDGRVQWTPPAIYKSSCSIDVTFFPFDDQNCTMKFG  
SWTYDKAKIDLVMHRSVDQLDFWESGEWVIDAVGTYNTRYECCEAIYPDITYAFVIR  
RLPLFYTINLIIPCLLISCLTVLVFYLPSCEGKITLCSVLLSLTVFLLLITEIIPSTS  
LVIPLIGEYLLFTMIFVTLISIVITVFLNVHHRSPRTHMTPTWVRRVFLDIVPRLLMKR  
PSVVKDNCRRLLIESMHKMASAPRFWPEPEGEPPATSGTQSLHPPSPSFCVPLDVPAEPGP  
SCKSPSDQLPPQPLEAEKASPHSPGPCRPPHGTQAPGLAKARSLSVQHMSSPGEAVEG  
GVRCRSRSIQYCVPRDDAAPEADGQAAGALASRNTHSAELPPPDQSPCKCTCKKEPSSV  
SPSATVKTRSTKAPPHLPLSPALTRAVEGVQYIADHLKAEDTDFSVKEDWKYVAMVIDR  
IFLWMFIIVCLLGTVGLFLPPWLAGMI

>sp|P17787|ACHB2\_HUMAN Neuronal acetylcholine receptor subunit beta-2 OS=Homo sapiens  
GN=CHRNA2 PE=1 SV=1

MARRCGPVALLGFGLLRLCSGVWGTDEERLVEHLLDPSRYNKLIRPATNGSELVTVQL  
MVSLAQLISVHEREQIMTTNVWLTQEWEDYRLTWKPEEFDNMKKVRLPSKHIWLPDVVLY  
NNADGMYEVSFYSAVVSVDGSIWLPPIYKSACKIEVKHFPFDQNCTMKFRSWTYDR  
TEIDLVLKSEVASLDDFTPSGEWDIVALPGRRENPDSTYVDITYDFIIRRKPLFYTIN  
LIIPCVLITSLAILVFYLPSCDCEKMTLCSVLLALTIVFLLLISKIVPPTSLDVPLVGKY  
LMFTMVLVTFISIVTSVCVLNVHHRSPTHMAPWVKVVFLEKLPALLFMQQPRHHCARQR  
LRLRRRQREREGAGALFFREAPGADSCTCFVNRAVQGLAGAFGAEPAPVAGPGRSGEPC  
GCGLREAVDGVRFIADHMRSEDDQSVSEDWKYVAMVIDRLFLWIFVFCVFGTIGMFLQ  
PLFQNYTTTTFLHSDHSAPSSK

>sp|P11230|ACHB\_HUMAN Acetylcholine receptor subunit beta OS=Homo sapiens GN=CHRNA1 PE=1  
SV=3

MTPGALLMLLGAAPLAPGVRGSEAEGRLEKLFSGYDSSVRPAREVGDRVRVSVGLIL

AQLISLNEKDEEMSTKVYLDLEWTDYRLSWDPAEHDGIDSLRITAESVWLPDVVLLNNND  
GNFDVALDISVVVSSDGSVRWQPPGIYRSSCSIQVTYFPFDWQNCTMVFSYSYDSSEVS  
LQTGLGPDGQGHQEIHIHEGTFIENGQWEI IHKPSRLIQPPGDPRGGREGQRQEVIFYLI  
IRRKPLFYLVNVIAPCILITLLAIFVFYLPDAGEKMGLSIFALLTLTVFLLLLADKVPE  
TSLVPIIIKYLMTMLVLTFSVILSVVVLNLHHRSPHTHQMPLWVRQIFIHKLPLYLRL  
KRPKPERDLMPEPPHCSSPGSGWGRGTDEYFIRKPPSDFLFPKPNRFQPELSAPDLRRFI  
DGPNRAVALLPELREVVSSISYIARQLQEEDHDALKEDWQFVAMVVDRLFLWTFIIITS  
VGTLVIFLDATYHLPPDPFP

>sp|P08172|ACM2\_HUMAN Muscarinic acetylcholine receptor M2 OS=Homo sapiens GN=CHRM2 PE=1 SV=1

MNNSTNSSNSLALTSPYKTFEVVFIVLVAGSLSLVTIIIGNILVMVSIKVNRLQTVNNY  
FLFSLACADLIIGVFSMNLTYLTVIGYWPLGPVVCDLWLALDYVVSNASVMNLLIISFD  
RYFCVTKPLTYPVKRTTKMAGMMIAAAWVLSFILWAPAILFWQFIVGVRTVEDGECYIQF  
FSNAAVTFGTAIAAFYLPVIMTVLYWHISRASKSRIKKDKKEPVANQDPVSPSLVQGRI  
VKPNNNMPSDDGLEHNKIQNGKAPRDPVTENCVQGEKESSNDSTSVSAVASNMRDDE  
ITQDENTVSTSLGHSKDENSEKQTCIRIGTKPKSDSCTPTNTTVEVVGSSGQNGDEKQNI  
VARKIVKMTKQPAKKKPPPSREKKVTRTILAILLAFIITWAPYNVMVLINTFCAPCIPNT  
VWTIGYWLICYINSTINPACYALCNATFKKTFKHLLMCHYKNIGATR

>sp|Q8TDX5|ACMSD\_HUMAN 2-amino-3-carboxymuconate-6-semialdehyde decarboxylase OS=Homo sapiens GN=ACMSD PE=1 SV=1

MKIDIHSHILPKEWPDLLKRFYGGWVQLQHHSKGEAKLLKDGKVFVRVRENCWDPEVRI  
REMDQKGVTVQALSTVPVMFSYWAKPEDTLNLCQLLNNDLASTTVSYPRRFVGLGLTPMQ  
APELAVKEMERCVKELGFGPGVIGITHVNEWDLNAQELFPVYAAAERLKCSELVHPWDMQM  
DGRMAKYWLPWLVGMPAETTIAICSMIMGGVFEKFPKLKVCFAHGGGAFPTVGRISHGF  
SMRPDLCAQDNPMNPKKYLGSFYTDALVHDPLSLKLLTDVIGKDKVILGTDYPFPLGELE  
PGKLIESMEEFDEETKNKLKAGNALAFLGLERKQFE

>sp|Q9Y305|ACOT9\_HUMAN Acyl-coenzyme A thioesterase 9, mitochondrial OS=Homo sapiens GN=ACOT9 PE=1 SV=2

MRRAALRLCALGKGQLTPGRGLTQGPQNPKKGIFHIHEVRDKLREIVGASTNWRDHVKA  
MEERKLLHSFLAKSQDGLPPRRMKDSYIEVLLPLGSEPELREKYLTQNTVRFGRILEDL  
DSLGVLICYMHNKIHSAKMSPLSIVTALVDKIDMCKKSLSPEQDIKFSGHVSWVGKTSME  
VKMQMFQLHGDEFCPLDATFVMVARDSENKGPAFVNPLIPESPEEEELFRQGELNKGRR  
IAFSSTSLKMAPSAEERTTIHEMFLSTLDPKTISFRSRVLPNAVWMENSKLSLEICH  
PQERNIFNRIFGGFLMRKAYELAWATACSFGGSRPFVAVDDIMFQKPVEVGSLFLSSQ  
VCFTQNNYIQVRVHSEVASLQEKQHTTTNVFHFTFMSEKEVPLVFPKTYGESMLYLDGQR  
HFNSMSGPATLRKDYLVEP

>sp|P62258|1433E\_HUMAN 14-3-3 protein epsilon OS=Homo sapiens GN=YWHAE PE=1 SV=1

MDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNLLSVAYKNVIGARRASW  
RIISSIEQKEENGGEDKLMIREYRQMVETELKLICCDILDVLDKHLIPAANTGESKVF  
YYKMGDGYHRYLAEFATGNDRKEAAENSLVAYKAASDIAMTELPPTHPIRLGLALNFSVF  
YYEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDSTLIMQLLRDNLTLWTSMDMQGDGE  
EQNKEALQDVEDENQ

>sp|Q9BTE6|AASD1\_HUMAN Alanyl-tRNA editing protein Aarsd1 OS=Homo sapiens GN=AARSD1 PE=1 SV=2

MAFWCQRDSYAREFTTTTVVSCCPAELQTEGSNGKKEVLSGFQVVLEDTVLFPEGGGQPDD  
RGTINDISVLRVTRRGEQADHFTQTPLDPGSQVLVRVDWERRFDHMQQHSGQHLITAVAD  
HLFKLKTTSWELGRFRSAIELDTPSMTAEQVAAIEQSVNEKIRDRLPVNVRELSLDDPEV  
EQVSGRGLPDDHAGPIRVVNIEGVDSNMCCGTHVSNLSDLQVIKILGTEKGKKNRTNLIF  
LSGNRVLKWMERSHGTEKALTALLKCGAEDHVEAVKKLQNSTKILQKNNLNLLRDLAVHI  
AHSLRNSPDWGGVVILHRKEGDSEFMNIIANEIGSEETLLFLTVDGDEKGGGLFLLAGPPA  
SVETLGPRAEVLEGKGAGKKGRFQGGKATKMSRRMEAQALLQDYISTQSAKE

>sp|P00505|AATM\_HUMAN Aspartate aminotransferase, mitochondrial OS=Homo sapiens GN=GOT2  
PE=1 SV=3

MALLHSGRVLPGIAAAFHPGLAAAASARASSWWTHVEMGPPDPILGVTEAFKRDTNSKKM  
NLGVGAYRDDNGKPYVLPVSRKAEQIAAKNLDKEYLPIGGLAEFCKASAELALGENSEV  
LKSGRFVTVQTISGTALRIGASFQRFFKFSRDVFLPKPTWGNHTPIFRDAGMQLQGYR  
YYDPKTCGFDFTGAVEDISKIPEQSVLLHACAHNPTGVDPPEQWKEIATVVKKRNLF  
FFDMAYQGFASGDGDKDAVVRHFIEQGINVCLCQSYAKNMGLYGERVGAFTMVCKDADE  
AKRVESQLKILIRPMYSNPPLNGARIAAAIILNTPDLRKQWLQEVKVMADRIIGMRTQLVS  
NLKKEGSTHNWQHITDQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGY  
LAHAIHQVTK

>sp|Q9NRW3|ABC3C\_HUMAN DNA dC->dU-editing enzyme APOBEC-3C OS=Homo sapiens GN=APOBEC3C  
PE=1 SV=2

MNPQIRNPMKAMYPGTFYFQFKNLWEANDRNETWLCFTVEGIKRRSVVSWKTGVFRNQVD  
SETHCHAERCFLSWFCDDILSPNTKYQVTWYTSWSPCPDCAGEVAEFLARHSNVNLTIFT  
ARLYYFQYPCYQEGRLSLSQEGVAVEIMDYEDFKYCWFNFVYNDNEPFKPKWGLKTNFRL  
LKRRLRESLQ

>sp|095477|ABCA1\_HUMAN ATP-binding cassette sub-family A member 1 OS=Homo sapiens GN=ABCA1  
PE=1 SV=3

MACWPQLRLLWKNLTFRRRQTCQLLLEVAWPLFIFLILISVRLSYPPYEQHECHFPNKA  
MPSAGTLPVWQGIICNANNPCFRYPTPGEAPGVVGNFNKSIVARLFSDARRLLLYSQKDT  
SMKDMRKVLRTLQKIKSSSNLKLQDFLVDNETFSGFLYHNLSLPSKSTVDKMLRADVILH  
KVFLQGYQLHLTSLCNGSKSEMIQLGDQEVSELGLPREKLA AERVLRNMDILKPIL  
RTLNSTSPFPSELAEATKTLHSLGTLAQELFSMRSWSDMRQEV MFLTNVNSSSSSTQI  
YQAVSRIVCGHPEGGLKIKSLNWYEDNNYKALFGNGTEEDAETFYDNSTTPYCNDLMK  
NLESSPLSRIIWKALKPLLVGKILYTPDTPATRQVMAEVNKTQELAVFHDLEGMWEELS  
PKIWTFMENSQEMDLVRMLLDSRDNDHFWEQQLDGLDWT AQDIVAFLAKHPEDVQSSNGS  
VYTWREAFNETNQAIRTISRFMECVNLNKLEPIATEVWLINKSMELDERKFWAGIVFTG  
ITPGSIELPHHVKYKIRMDIDNVERTNKIKDGYWDPGPRADPFEDMRYVWGGFAYLQDVV  
EQAIIRVLTGTEKKTGVYMQMPYPCYVDDIFLRVMSRSMPLFMTLAWIYSVAVIKGI  
YEKEARLKETMRIMGLDNSILWFSWFISLIPLLVSAGLLVVLKLG NLLPYSDPSVVFV  
FLSVFAVVTILQCFLISTLFSRANLAAACGGIIYFTLYLPYVLCVAVQDYVGFTLKIFAS  
LLSPVAFGFGCEYFALFEEQIGVQWDNLFESPVEEDGFNLTTSVSMMFLDFTLYGVMTW  
YIEAVFPGQYGIPRPWYFPCTKSYWFGEESEKSHPGSNQKRRISEICMEEEPHTLKLGV  
IQNLVKVYRDGMKVAVDGLALNFYEGQITSFLGHNGAGKTTMSILTGLFPPTSGTAYIL  
GKDIRSEMSTIRQNLGVC PQHNVLFDMLTVEEHIW FYARKGLSEKHVKAEME QMALDVG  
LPSSKLKSKTSQLSGGMQRKLSVALAFVGGSKVVILDEPTAGVDPYSRRGIWELLK YRQ  
GRTIILSTHHMDEADVLDRIAIISHGKLCCVGSSFLKNQLGTGYLTLVKKDVESLS

SCRNSSSTVSYLKKEDSVSQSSDAGLGSDHESDTLTIDVSAISNLIRKHVSEARLVEDI  
GHELT YVLPYEAAKEGAFVELFHEIDDRLSDLGISSYGISETTLEEIFLKVAEESGVDAE  
TSDGTLPARRRRAFGDKQSCLRPFTEDDAADPNDSIDPESRETDLLSGMDGKGSYQVK  
GWKLTQQQFVALLWKRLLIARRSRKGFFAQIVLPAVFVCIALVFSLIVPPFGKYPSLELQ  
PWWYNEQYTFVSNDAPEDTGTLELLNALTKDPGFGTRCMEGNPIPDTPCQAGEEWTAP  
VPQTIMDLFQNGNWTMQNPSPACQCSSDKIKKMLPVCPPGAGGLPPPQRKQNTADILQDL  
TGRNISDYL VKTYVQIIAKSLKNKIWVNEFRYGGFSLGVSNTQALPPSQEVNDAIKQMKK  
HLKLAKDSSADRFLNSLGRFMTGLDTKNNVKVWFNNKGWHAISSFLNVINNAILRANLQK  
GENPSHYGITAFNHPLNLTKQQLSEVALMTTSVDVLVSICVIFAMSFVPASFVFLIQR  
VSKAKHLQFISGVKPVIIYWSNFVWDMCNYVVPATLVIIIFICFQQKSYVSSTNLPVLAL  
LLLLYGSITPLMPASFVFKIPSTAYVVLTSVNLFIGINGSVATFVLELFTDNKLNNIN  
DILKSVFLIFPHFCLGRGLIDMVKNQAMADALERFGENRFVSPLSWDLVGRNLFAMAVEG  
VVFFLITVLIQYRFFIRPRPVNAKLSPLNDEDEDVRRERQRILDGGGQNDILEIKELTKI  
YRRKRKPAVDRICVGIPPGECFGLLVNGAGKSSTFKMLTGDTTVTRGDAFLNKNLSILSN  
IHEVHQNMGYCPQFDAITELLTGREHVEFFALLRGVPEKEVGKVGEWAIRKLGLVKYGEK  
YAGNYSGGNKRKLSTAMALIGPPVVFLEPTTGMDPKARRFLWNCALSVVKEGRSVVLT  
SHSMEECEALCTRMAMVNGRFRCLGSVQHLKNRFGDGYTIVVRIAGSNPDLKPVQDFFG  
LAFPGSVLKEKHRNMLQYQLPSSLSLARIFSILSQSKKRLHIEDYSVSQTTLDQVFNF  
AKDQSDDDHLKDL SLHKNQTVVDVAVLTSFLQDEKVKESYV

>sp|Q8WWZ7|ABCA5\_HUMAN ATP-binding cassette sub-family A member 5 OS=Homo sapiens GN=ABCA5  
PE=2 SV=2

MSTAIREVGVWRQTRTLLLKNYLIKCR TKKSSVQEILFPLFFLFWLILISMHPNKKYEE  
VPNIELNPMDKFTLSNLILGYTPVTNITSSIMQKVSTDHLPDVIITEEYTNEKEMLTSSL  
SKPSNFGVGVFKDSMSYELRFFPDMIPVSSIYMDSRAGCSKSCEAAQYWSSGFTVLQASI  
DAAIIQLKTNVSLWKELESTKAVIMGETAVVEIDTFPRGVILIIYLVIASFPGYFLAIHI  
VAEKEKKIKEFLKIMGLHDTAFWLSWVLLYTSLIFLMSLLMAVIATASLLFPQSSSIVIF  
LLFFLYGLSSVFFALMLTPLFKKSKHVGIVEFFVTVAFGFIGLMIILIESFPKSLVWLFS  
PFCHCTFVIGIAQVMHLEDFNEGASFNSLTAGPYPLIITIIMLTNSIFYVLLAVYLDQV  
IPGEFGLRRSSLYFLKPSYWSKSRNVEELSEGNVNGNISFSEIIEPVSSFEVVGKEAIRI  
SGIQKTYRKKGENVEALRNLSFDIYEGQITALLGHSGTGKSTLMNLCGLCPPSDGFASI  
YGHRVSEIDEMFEARKMIGICPQLDIHFDVLTVEENLSILASIKGIPANNIIQEVQKVLL  
DLDMQTIKDNQAKKLSGGQKRKLSLGI AVLGNPKILLLDEPTAGMDPCSRHIVWNLLKYR  
KANRVTVFSTHFMDEADILADRKAVISQGMLKCVGSSMFLKSKWIGYRLSMYIDKYCAT  
ESLSSLVKQHIPGATLLQQNDQQLVYSLPFDKMDKFSGLFSALDSHSLNGLVISYGVSMTT  
LEDVFLKLEVEAEIDQADYSVFTQQPLEEEMDSKSFDEMEQSLLILSETKAALVSTMSLW  
KQQMYTIAKFHFFTLKRESKSVRSVLLLLLIFFTVQIFMFLVHHSFKNVAVPIKLPDLY  
FLKPGDKPHKYKTSLLLQNSADSDISDLISFFTSQNIMVTMINDSDYVSVAPHSAALNVM  
HSEKDYVFAAVFNSTMVYSLPILVNIISNYLYHLNVTETIQIWSTPFFQEITDIVFKIE  
LYFQAALLGIIVTAMPPYFAMENAENHKIKAYTQLKLSGLLP SAYWIGQAVVDIPLFFII  
LILMLGSLLAHYGLYFYTVKFLAVVFCLIGVPSVILFTYIASFTFKILNTKEFWSFI  
YSVAALACIAITEITFFMGYTIATILHYAFCIIPIYPLLGCLISFIKISWKNVRKNVDT  
YNPWDRLSVAVISPYLQCVLWIFLLQYYEKKYGGRSIRKDPFFRNLSKSKNRKLPEPPD  
NEDEDEDVKAERLKVKELMGCQCCEEKPSIMVSNLHKEYDDKKDFLLSRKVKKVATKYIS  
FCVKKGEILGLLGPNAGAKSTIINILVGDIPTSGQVFLGDYSSSETSEDDDSLKCMGYCP

QINPLWPD TTLQE HFEIYGAVKGMSASDMKEVISRITHALDLKEHLQKTVKKLPAGIKRK  
LCFALSMLGNPQITLLDEPSTGMDPKAKQHMWRAIRTA FKNRKRAAILTTHYMEEAEAVC  
DRVAIMVSGQLRCIGTVQHLKSKFGKGYFLEIKLKDWIENLEVDR LQREIQYIFPNASRQ  
ESFSSILAYKIPKEDVQSLSQSFFKLEEKHAFATIEEYSFSQATLEQVFVELTKEQEEED  
NSCGTLNSTLWWERTQEDRVVF

>sp|Q8N139|ABCA6\_HUMAN ATP-binding cassette sub-family A member 6 OS=Homo sapiens GN=ABCA6  
PE=1 SV=2

MNMKQKSVYQQTKALLCKNFLKKWRMKRESLLEWGLSILLGLCIALFSSSMRNVQFPGMA  
PQNLGRVDKFNSSSLMVVYTPISNLTQQIMNKTALAPLLKGT SVIGAPNKTHMDEILLEN  
LPYAMGII FNETFSYKL IFFQGYNSPLWKEDFSAHCWDGYGEFSCTLT KYWNRGFVALQT  
AINTAIEITTNHPVMEELMSVTAITMKTLPFITKNLLHNEMFILFLLHFSPLVYFISL  
NVTKERKSKSNLMKMMGLQDSAFWLSWGLIYAGFIFIISIFVTIIITFTQIIVMTGFMVI  
FILFFLYGLSLVALVFLMSVLLKAVLTNLVVFLLTLFWGCLGFTVFYEQLPSSLEWILN  
ICSPFAFTTGMIIQIKLDYNLNGVIFPDPSGDSYTMIA TFSMLLLDGLIYLLALYFDKI  
LPYGDERHYSPLFFLNSSSCFQHQR TNAKVIEKEIDA EHP SDDYFEPVAPEFQGEAIRI  
RNVKKEYKGKSGKVEALKGLLFDIYEGQITAILGHSGAGKSSLLNINGLSVPTEGSVTI  
YNKNLSEMQDLEEIRKITGVCPQFNVQFDILT VKENLSLFAKIKGIHLKEVEQEVQRILL  
ELDMQNIQDNLAKH LSEGQKRKLTFGITILGDPQILLLDEPTTGLDPFSRDQVWSLLRER  
RADHVILFSTQSMDEADILADRKVIMSNGRLKCAGSSMFLKRRWGLGYHLSLHRNEICNP  
EQITSFITHHIPDAKLKTENKEKLVYTLPLERTNTFPDLFSDLDKCS DQGV TGYDISMST  
LNEVFMKLEGQSTIEQDFEQVEMIRDS ESLNEMELAHSSFS EMQTAVSDMGLWRMQVFAM  
ARLRFKLKRQTKVLLTLLLVFGIAIFPLIVENIMYAMLNEKIDWEFKNELYFLSPGQLP  
QEPRTSLLI INNTESNIEDFIKSLKHQNILLEVD DFENRNGTDGLSYNGAII VSGKQKDY  
RFSVVCNTKRLHCFILMNIISNGLLQMFNHTQHIRIESSPFPLSHIGLWTGLPDGSFFL  
FLVLCSISPYITMGSI SDYKNAKSQLWISGLYTSAYWCGQALVDVSFFILILLMYLIF  
YIENMQYLLITSQIVFALVIVTPGYAASLVFFIYMISFIFRKR RNKNSGLWSFYFFFASTI  
MFSITLINHFDSLILITTMVLVPSYTL LGFKTFLEVRDQEHYREFPEANFELSATDFLVC  
FIPYFQTLLFVFLRCMELKCGKKRMKDPVFRISPQSRDAKNPEEPIDEDEDIQTERI  
RTATALTTSILDEKPVIIASCLHKEYAGQKKSCFSKRKKKIAARNISFCVQEGEILGLLG  
PNGAGKSSSIRMISGITKPTAGEVELKGCSSVLGHLGYCPQENVLPMLTLREHLEVYAA  
VKGLRKADARLAIARLVSAFKLHEQLNVPVQKLTAGITRKL CFVLSLLGNSPVLLLDEPS  
TGIDPTGQQQMWQAIQAVVKNTERGVL LTTHNLAEAEALCDRVAIMVSGRLRCIGSIQHL  
KNKL GKDYILELKV KETSQVTLVHTEILKLPQAAGQERYSSLLTYKLPVADVYPLSQTF  
HKLEAVKHNFNLEEYSLSQCTLEKV FLELSKEQEVGNFDEEIDTTMRWKLLPHSDEP

>sp|Q8IZY2|ABCA7\_HUMAN ATP-binding cassette sub-family A member 7 OS=Homo sapiens GN=ABCA7  
PE=1 SV=3

MAFWTQLMLLLWKNFMYRRRQPVQLLVELLWPLFLFFILVAVRHSHPPLEHHECHFPNKP  
LPSAGTVPWLQGLICNVNNTCFPQLTPGEEPGRLSNFND SLVSRL LADARTVLGGASAHR  
TLAGLGKLIATLRAARSTAQPQPTKQSPLEPPMLDVAELLTSLLRTESLGLALGQAQEPL  
HSLLEAAEDLAQELLALRSLVELRALLQRPRGTS GPLELLSEALCSVRGPSSTVGPSLW  
YEASDLMELVGQEPESALPDSSSPACSELIGALDSHPLSRLLWRR LKPLILGKLLFAPD  
TPFTRKLMAQVNRTEELTLRDVREVWEMLGPRIFTFMNDSSNVAMLQRLLQM QDEGRR  
QPRPGGRDHMEALRSFLDPGSGGYSWQDAHADVGHLVGT LGRVTECLSLDKLEAAPSEAA  
LVSRALQLLAEHRFWAGVVFLGPEDSSDPTEHPTPDLGPGHVRIKIRMDIDVVTRTNKIR

DRFWDPGPAADPLTDLRYVWGGFVYLQDLVERAAVRVLSGANPRAGLYLQQMPYPCYVDD  
VFLRVLSRSLPLFLTAWIYSVTLTVKAVVREKETRLRDTMRAMGLSRAVLWLGWFLSCL  
GPFLLSAALLVLVLKGLDILPYSHPGVVFLFLAAFAVATVTQSFLLSAFFSRANLAAACG  
GLAYFSLYLPYVLCVAWRDLRPLAGGRVAASLLSPVAFGFGCESLALLEEQGEGAQWHNVG  
TRPTADVFSLAQVSGLLLLDAALYGLATWYLEAVCPGQYGIPEPWNFPFRRSYWCGRPP  
KSPAPCPTPLDPKVLVEEAPPGLSPGVSVRSLEKRFPQSPALRGLSLDFYQGHITAF  
GHNGAGKTTTSLISGLFPSPGGSFILGHGVRSSMAAIRPHLGVCQYNVLFDMTLVDE  
HVWFYGRKGLSAAVVGPEQDRLLQDVLVSKQSVQTRHLSGGMQRKLSVAIAFVGGSQV  
VILDEPTAGVDPASRRGIWELLKYREGRTLILSTHHLDEAELLGDRVAVVAGGRLCCCG  
SPLFLRRHLGSGYYLTLVKARLPLTTNEKADTDMEGSVDTRQEKNQSGSRVGTPLLA  
LVQHWVPGARLVEELPHELVLVLPYTGAHDGSFATLRFRELDTRLAELRLTGYGISDTSLE  
EIFLKVVEECAADTDMEDGSCGQHLCTGIAGLDVTLRKMPPEQTALENGEPAGSAPETD  
QGSQPDVAVGRVQGWALTRQQLQALLKRFLLARRSRRGLFAQIVLPALFVGLALVFS  
LIVPPFGHPALRLSPTMYGAQVSFFSEDAPGDPGRARLLEALLQEAGLEPPVQHS  
SHRFSAPVPAEVAKVLASGNWTPESPSPACQCSRPGARRLLPDCPAAAGPPPPQAVTGS  
GEVVQNL TGRNLSDFLVKTYPRLVQGLKTKKWVNEVRYGGFSLGGRDPGLPSGQELGRS  
VEELWALLSPLPGGALDRVLKNLTAWAHSLSDAQDSLKIWFNNKGWHSMAFVN  
RASNAILRAHLP GP PARHAHSITTLNHPLNLTKQLSEGALMASSVDVLVSICVVFAM  
SFVPASFTLVLEE RVTRAKHLQLMGGLSPTLYWLGNFLWDMCNYLPACIVVLIFLA  
FQQRAYVAPANLPALL LLLLYGWSITPLMPASFFFSVPSTAYVVLTCINLFIGING  
SMATFVLELFSQQKLQEV SRILKQVFLIFPHFCLGRGLDMVRNQAMADAFERLGD  
RQFQSPLRWEVVGKNLLAMVIQ GPLFLLFTLLQHRSQLLPQPRVRSPLP  
LGEEDVARERERVVQGATQGDVLVLRNLTK VYRQGRMPAVDRLCLGIPPGEC  
FLLGVNGAGKTSTFRMVTGDTLASRGEAVLAGHSVAR EPSAAHLSMGYCPQSDA  
IFELLTGREHLELLARLRGVPEAQVQTAGSGLARLGLSWYAD RPAGTYSGGNKR  
KLATALALVGDPVAVFLDEPTTGMGPSARRFLWNSLLAVVREGRSVML TSHS  
MEECEALCSRLAIMVNGRFRCLGSPQHLKGRFAAGHTLTLRVPAARSQPAAAFVAA  
EFPGAELREAHGGRLRFQLPPGGRCALARVFGELAVHGAEHGVEDFSVSQTM  
LEEVFLYF SKDQKGKDEDEEKEAGVGVDPAAPGLQHPKRVSQFLDDPSTAETVL

>sp|094911|ABCA8\_HUMAN ATP-binding cassette sub-family A member 8 OS=Homo sapiens GN=ABCA8  
PE=1 SV=3

MRKRKISVCQQTWALLCKNFLKKWRMKRESLMEWLNLLLLCLYIYPHSHQVNDFFSLL  
TMDLGRVDTFNESRFSVVYTPVTNTTQQIMNKVASTPFLAGKEVLGLPDEESIKEFTANY  
PEEIVRVTFNTYSHLKFLLGHGMPAKKEHKDHTAHCYETNEDVYCEVSVFWKEGFVAL  
QAAINAAIIETTNHVSMEELMSVTGKNMKMHSFIGQSGVITDLYLFSCIIISFSSFIYYA  
SVNVTREKRKMKALMTMMGLRDSAFWLSWGLLYAGFIFIMALFLALVIRSTQFIILSGFM  
VVFSFLLYGLSLVALAFLMSILVKKSFLTGLVVFLTVFWGCLGFTSLYRHLPASLEWI  
LSLLSPFAFMLGMAQLLHLDYDLNSNAFPHPSDGSNLIVATNFMLAFDTCLYLALAIYFE  
KILPNEYGHRRPPLFFLKSSFSQTKTDHVALEDEMDADPSFHDSFEQAPPEFQGEAI  
RIRNVTKEYKGPKDIEALKDLVFDIYEGQITAILGHSGAGKSTLLNILSGLSVPTKGSV  
TIYNNKLESMADLENLSKLTGVCQPSNVQFDFLTVRENLRFAKIKGILPQEV  
DKEIFLL DEPTAGLDPF SRHQVWNLKERKTDRVILFSTQFMDEADILADRKVFLS  
QGKLCAGSSL FLKKKWGIGYHLSLQNEICVEENITSLVKQHIPDAKLSAKSEGKLIYTL  
PLERTNKFPE LYKDLSYDPDLGIENYGVSMTTLNEVFLKLEGSTINESDAILGEVQAEK  
ADDTERLVE MEQVLSSLNKMRTIGGVALWRQQICAIARVRLLKLKHERKALLALLILMAGFC  
PLLVE

YTMVKIYQNSYTWELSPHLYFLAPGQQPHDPLTQLLI INKTGASIDDFIQSVEHQNTALE  
VDAFGTRNGTDDPSYNGAITVCCNEKNYSFSLACNAKRLNCFVLMDIVSNGLLMVKPS  
VHIRTERSTFLENGQDNPIGFLAYIMFWLVLTSSCPPIAMSSIDDYKNRARSQLRISGL  
SPSAYWFGQALVDVSLYFLVVFYIYLMYSISNFEDMLLTI IHI IQIPCAVGYSFSLIFMT  
YVISFIFRKGRKNSGIWSFCFYVVTVFSVAGFAFSIFESDIPFIFTFLIPPATMIGCLFL  
SSHLLFSSLFSEERMDVQPFLVFLIPFLHFI IFLFTLRCLEWKFGKSMRKDPFFRISPR  
SSDVCQNPEEPEGEDEDVQMERVRTANALNSTNFDEKPVIIASCLRKEYAGKRKGCFSKR  
KNKIATRNVSFVCRKGEVLGLLGHNGAGKSTS IKVITGDTKPTAGQVLLKGSGGGDALEF  
LGYPQENALWPNLTVRQHLEVYAAVKGLRKGAEVAITRLVDALKLQDQLKSPVKTLSE  
GIKRKLCFVLSILGNPSVLLDEPSTGMDPEGQQMWQAIRATFRNTERGALLTTHYMAE  
AEAVCDRVAIMVSGRLRCIGSIQHLKSKFGKDYLLEMKVKNLAQVEPLHAEILRLFPQAA  
RQERYSSLMVYKLPVEDVQPLAQAFFKLEKVKQSFDEEYSLSQSTLEQVFLELSKEQEL  
GDFEEDFDPSVKWLLPQEEP

>sp|Q4W5N1|ABCAB\_HUMAN Putative ATP-binding cassette sub-family A member 11 OS=Homo sapiens GN=ABCA11P PE=2 SV=1

MKYGNEIMNKDPVFRISPRSRGTHTNPEEPEEDVQAERVQAANALTPNLEEEPVITASC  
LHKEYYETKKVAFQQRKQPSMFRLVKSEVLGLLGHNGAGKSTS IKMITGCTVPTAG  
VVVLQGNRASVRQQRDNLKFLGTALRRTHCVPNLQ

>sp|Q86UK0|ABCAC\_HUMAN ATP-binding cassette sub-family A member 12 OS=Homo sapiens GN=ABCA12 PE=1 SV=3

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NLPSTGFFPFLQTLLCDTDSKCKDTPYGPQDLLRRKGIDDALFKDSEILRKSSNLDKDSS  
LSFQSTQVPERRHASLATVFPSPSSDLEIPGTYTFNGSQVLARILGLEKLLKQNSTSEDI  
RRELCDSSYGYIVDDAFSWTFLGRNVFNKFCLSNMTLLESSLQELNKQFSQLSSDPNNQK  
IVFQEIVRMLSFSSQVQEQKAVWQLSSFPNVFQNDTSLSNLFDVLRKANSVLLVVQKVY  
PRFATNEGFRTLQKSVKHLTYLTDSPAQGSDNITHVWNEDDGQTLSPSSLAAQLLILEN  
FEDALLNISANSPIPYLACVRNVTDSLARGSPENLRLLQSTIRFKKSFLRNGSYEDYFP  
PVPEVLKSKLSQLRNLTELLCESETFSLIEKSCQLSDMSFGSLCEESEFDLQLLEAAELG  
TEIAASLLYHDNVISKKVRDLLTGDPKINLNMDFLEQALQMNYLENITQLIPIIEAML  
HVNNSADASEKPGQLLEMFKNVEELKEDLRRTTGMSNRTIDKLLAIPIDNRAEIIISQVF  
WLHSCDTNITTPKLEDAMKEFCNLSERSRQSYLIGLTLLHYLNIYNFTYKVFFPRKDQ  
KPVEKMMELFIRLKEILNQMASGTHPLLDKMRSKQMHLPKRVPLTQAMYRSNRMNTPQG  
SFSTISQALCSQGITTEYL TAMPSSQRPKNHTKDFLTYKLTKEQIASKYGIPINSTPF  
CFSLYKDIINMPAGPVIWAFKPMMLGRILYAPYNPVTKAIMEKSNVTLRQLAELREKSQ  
EWMDSPLFMNSFHLLNQAI PMLQNTLRNPFVQVFKFSVGLDAVELLKQIDELDILRLK  
LENNIDIIDQLNTLSSLTVNISSCVLYDRIQAAKTIDEMEREAKRLYKSNELFGSVIFKL  
PSNRSWHRGYDSGNVFLPPVIKYTIRMSLKAQTTRSLRTKIWAPGPHNSPSHNQIYGRA  
FIYQLQDSIERAIIELQTGRNSQEIAVQVQAIPYPCFMKDNFLT SVSYSLPIVLMVAWVVF  
IAAFVKKLVYEKDLRLHEYMKMMGVNSCSHFFAWLIESVGFLLVITIVILIIILKFGNILP  
KTNGFILFLYFSDYSFSVIAMSYLISVFFNNTNIAALIGSLIYIIAFFFPIVLVTVENEL  
SYVLKVFMSLLSPTAFSYASQYIARYEEQGIGLQWENMYTSPVQDDTTSFGWLCCLILAD  
SFIYFLIAWYVRNVFPGTYGMAAPWYFPIILPSYWKERFGCAEVKPEKSNGLMFTNIMMQN  
TNPSASPEYMFSSNIEPEPKDLTVGVALHGVTKIYGSKVAVDNLLNFYEGHITSLLGPN  
GAGKTTTISMLTGLFGASAGTIFVYGKDIKTDLHTVRKNMGVCMQHDVLF SYLT TKEHLL

LYGSIKVPHTKKQLHEEVKRTLKDTGLYSHRHKRVGTLSGGMKRKLSISIALIGGSRVV  
ILDEPSTGVDPSCRRIWDVISKNTARTIILSTHHLDEAEVLSDRIFLEQGGLRCCGS  
PFYLKEAFGDGYHLTLTKKSPNLNANAVCDTMAVTAMIQSHLPEAYLKEDIGGELVYVL  
PPFSTKVSAYLSLLRALDNGMGDLNIGCYGISDTTVEEVFLNLTKESQKNSAMSLEHLT  
QKKIGNSNANGISTPDDLVSSSNFTDRDDKILTRGERLDGFGLLLKKIMAILIKRFHHT  
RRNWKGLIAQVILPIVFVTTAMGLGTLRNSSNSYPEIQISPSLYGTSEQTAFYANYHPST  
EALVSAMWDFPGIDNMCNLTSDLQCLNKDSLEKWNTSGEPITNFGVCSCSENVQECPKFN  
YSPPHRRTYSSQVIYNLTGQRVENYLISTANEFVQKRYGGWSFGLPLTKDLRFDITGVPA  
NRTLAKVWYDPEGYHSLPAYLNSLNNFLLRVNMSKYDAARHGIIMYSHYPYGVQDQEAT  
ISSLIDILVALSILMGYSVTTASFVTVVREHQTKAKQLQHISGIGVTCYWVTNFIYDMV  
FYLVPVAFSIGIIAIFKLPAFYSENNLGAVSLLLLFGYATFSWMYLLAGLFHETGMAFI  
TYVCVNLFFGINSIVLSVVYFLSKEKPNDPTLELISETLKRIFLIFPQFCFGYGLIELS  
QQQSVLDFLKAYGVEYPNETFEMNKLAMFVALVSQGTMMFFSLRLINESLIKKLRLFFR  
KFNSSHVRETIDEDDVRAERLTVESGAAEFDLVQLYCLTKTYQLIHKKIIAVNNISIGI  
PAGECFGLLGUNGAGKTTIFKMLTGDIIIPSSGNILIRNKTGSLGHVDSHSSLVGYPQED  
ALDDLVTVEEHLYFYARVHGIPEKDIKETVHKLLRRLHLMFPKDRATSMCSYGTKRKLST  
ALALIGKPSILLDEPSSGMDPKSKRHLWKIISEEVQNKCSVILTSMSMEECEALCTRLA  
IMVNGKFQCIQSLQHIKSRFGRGFTVKVHLKNNKVTMETLTKFMQLHFPKTYLKDQHL  
SMLEYHVPVTAGGVANIFDLETNKTALNITNFLVSQTTLEEVFINFAKDQKSYETADTSSQ  
GSTISVDSQDDQMES

>sp|Q9BV23|ABHD6\_HUMAN Monoacylglycerol lipase ABHD6 OS=Homo sapiens GN=ABHD6 PE=1 SV=1  
MDLDVVMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYVHHEDYQF  
CYSFRGRPGHKPSILMLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTTRSSLDLDS  
IDGQVKRIHQFVECLKLNKKPFHLVGTSMGGQVAGVYAAAYPSDVSSLCLVCPAGLQYST  
DNQFVQRLKELQGSAAVEKIPLIPSTPEEMSEMLQLCSYVRFKVPQQILQGLVDVRIPH  
NFYRKLFLEIVSEKSRYSLHQNMDKIKVPTQIIWGKQDQVLDSGADMLAKSIANCQVEL  
LENCGHSVVMERPRKTAKLIIDFLASVHNTDNNKKLD

>sp|Q9BUJ0|ABHEA\_HUMAN Protein ABHD14A OS=Homo sapiens GN=ABHD14A PE=2 SV=2  
MVGALCGCWFRLLGGARPLIPLGPTVVQTSMSRSQVALLGLSLLLMLLLYVGLPGPPEQTS  
CLWGDPNVTVLAGLTPGNSPIFYREVLPNQAHREVVLLHGKAFNSHTWEQLGTLQLLS  
QRGYRAVALDLPFGNSAPSKEASTEAGRAALLERALRDLEVQNAVLVSPSLSGHYALPF  
LMRGHHQLHGFPPIAPTSTQNYTQEQFWAVKTPTLILYGELDHILARESRLRHLPNHS  
VVKLRNAGHACYLHKPQDFHLVLLAFLDHL

>sp|Q9P2A4|ABI3\_HUMAN ABI gene family member 3 OS=Homo sapiens GN=ABI3 PE=1 SV=2  
MAELQQLQEFEIPTGREALRGNSALLRVADYCEDNYVQATDKRKALEETMAFTTQALAS  
VAYQVGNLAGHTLRMLDLQGAALRQVEARVSTLGMVMNMHMEKVARREIGTLATVQRLPP  
GQKVIAPENLPPLTPYCRRPLNFGCLDDIGHGIDKLDSTQLSRTGTLSRKSIAKATPASA  
TLGRPPRIPEPVHLPVVPDGRLSAASSAFSLASAGSAEGVGGAAPTPKGQAAPPAPPLPSS  
LDPPPPAAVEVFQRPTLEELSPPPPDEELPLPLDLPPPPPLDGDELGLPPPPPGFGPD  
EPSWVPASYLEKVVTLYPYTSQKDNELSFSEGTVICVTRRYSWGCEGSSEGTGFFPGN  
YVEPSC

>sp|O94929|ABLM3\_HUMAN Actin-binding LIM protein 3 OS=Homo sapiens GN=ABLM3 PE=1 SV=3  
MNTSIPYQQNPYNPRGSSNVIQCYRCGDTCKGEVVRVHNNHFHIRCFTCQVCGCLAQSG  
FFFKNQEYICTQDYQQLYGTRCDSCRDFITGEVISALGRTYHPKCFVCSLCRKPFPIDGK



VTFSGKECVCQTCSQSMASCKPIKIRGPHCAGCKEEIKHGQSLALDKQWHVSCFKCQT  
CSVILTGEYISKDGPYCESDYHAQFGIKCETCDRYISGRVLEAGGKHYPHCARCVRCH  
QMFTEGEEMYLTSGEVWHPICKQAARAEKKLKHRTSETSISSPPGSSIGSPNRVICAQVD  
NEILNYKDLAALPKVKSIEVQRPDLISYEPHSRYMSDEMLERCYGESLGTLSPPYSQDI  
YENLDRQRRASSPGYIDSPYSRQGMSPFSSRSPHHYYRSGPESGRSSPYHSQLDVRSS  
TPTSYQAPKHFHIPAGDSNIYRKPIYKRHGDLSATKSKTSEDISQTSKYSPIYSPDPY  
YASESEYWTYHGSPKVPARRFSSGGEEDDFDRSMHKLQSGIGRLILKEEMKARSSSYAD  
PWTPPRSSTSSREALHTAGYEMSLNGSPRSHYLAUSDPLISKSASLPAYRRNGLHRTPSA  
DLFHYDSMNAVNWGMREYKIYPYELLVTTTRGRNRLPKDVDRTLRHLRSQEEFYQVFGM  
TISEFDRLLALWKRNELKKQARLF

>sp|Q9NPB9|ACKR4\_HUMAN Atypical chemokine receptor 4 OS=Homo sapiens GN=ACKR4 PE=1 SV=1  
MALEQNQSTDYEEENEMNGTYDYSQYELICIKEDVREFAKVFLPVFLTIVFVIGLAGNS  
MVVAIYAYYKKQRTKTDVYILNLAVADLLLLFTLPFWAVNAVHGWVLGKIMCKITSALYT  
LNFVSGMQFLACISIDRYVAVTKVPSQSGVGKPCWIIICFCVWMAAILLSIPQLVFYTVND  
NARCIPIFPRYLGTSMKALIQMLEICIGFVVPFLIMGVCYFITARTLMKMPNIKISRPLK  
VLLTVVIVFIVTQLPYNIVKFCRAIDIIYSLITSCNMSKRMDIAIQVTESIALFHSCCLNP  
ILYVFMGASFKNYMKVAKKYGSWRRQRQSVVEFPFDESEGPTPTSTFSI

>sp|Q9Y615|ACTL7A\_HUMAN Actin-like protein 7A OS=Homo sapiens GN=ACTL7A PE=1 SV=1  
MWAPPAAIMDGP TKKVGNAQLQTALQTASLRDGP AKRAVVRHTSSEPQEPTESKAA  
KERPKQEVTKAVVVDLGTGYCKCGFAGLPRPTHKISTTVGKPYMETAKTGDNRKETFVGQ  
ELNNTNVHLKLVNPLRHGIIVDWDTVQDIWEYLFQEMKIAPEEHAVLVSDPPLSPHTNR  
EKYAEMLF EAFNTPAMHIAYSRLSMYSYGRTSGLVVEVGHGVSYVVPYIEGYPLPSITG  
RLDYAGSDLTAYLLGLLSAGNEFTQDQMGIVEDIKKKCCFVALDPIEEKKVPLSEHTIR  
YVLPDGKEIQLCQERFLCSEMF KPSLIKSMQLGLHTQTVSCLNKCDIALKRDLMGNILL  
CGGSTMLSGFPNRLQKELSSMCPNDTPQVNVLPERDSAVWTGG SILASLQGFQPLWVHRF  
EYEEHGPFPLYRRCF

>sp|P08173|ACM4\_HUMAN Muscarinic acetylcholine receptor M4 OS=Homo sapiens GN=CHRM4 PE=1  
SV=2

MANFTPVNGSSGNQSVRLVTSSSHNRYETVEMVFIATVTGSLSLVTVGNILVMLSIVKN  
RQLQTVNNYFLFSLACADLIIGAFSMNLYTVYIIKGYWPLGAVVCDLWLALDYVVSNASV  
MNLLIISFDRYFCVTKPLTYPARRTTKMAGLMIAAAWVLSFVLWAPAILFWQFVVGKRTV  
PDNQCFIQFLSNPAVTFGTAAAFYLPVVMITVLYIHISLASRSRVHKKRPEGPKEKKAK  
TLAFLKSPMLKQSVKKPPPGEAAREELRNGKLEEAPPPALPPPPRPVADKDTSNESSSGS  
ATQNTKERPATELSTTEATTPAMPAPPLQPRALNPASRWSKIQIVTKQTGNECVTAIEIV  
PATPAGMRPAANVARKFASIARNQVRKKRQMAARERKVTRTIFAILLAFILTWTPYNVMV  
LVNTFCQSCIPDTVWSIGYWLVCYNSTINPACYALCNATFKKTRHLLLCQYRNIGTAR

>sp|Q96M93|ADAD1\_HUMAN Adenosine deaminase domain-containing protein 1 OS=Homo sapiens  
GN=ADAD1 PE=2 SV=1

MASNNHWFQSSQVPSFAQMLKKNLVPQPATKTITTTPTGWSSES YGLSKMASKVTQVTGNF  
PEPLLSKNLSSISNPVLPKKIPKEFIMKYKRGEINPVSAHQFAQMQRVQLDLKETVTT  
GNVMGPYFAFCAVVDGIQYKTGLGQNKESRSNAAKLALDELLQLDEPEPRILETSGPPP  
FPAEPVVLSELAYVSKVHYEGRHIQYAKISQIVKERFNQLISNRSEYLYSSSLAAFIIE  
RAGQHEVVAIGTGEYNYSQDIKPDGRVLHDTHAVVTARRSLLRYFYRQLLLFYSKNPAMM  
EKSI FCTEPTSNLLTLKQINICLYMNQLPKGSAQIKSQLRLNPHSISAFEANEELCLHV

AVEGKIYLTVYCPKDGVNRISSMSSSDKLTRWEVLGVQGALLSHFIQPVYISSILIGDGN  
CSDTRGLEIAIKQRVDDALTSKLPMFYLVNRPHISLVPSAYPLQMNLEYKFLSLNWAQGD  
VSLEIVDGLSGKITESSPFKSGMSMASRLCKAAMLSRFNLLAKEAKKELLEAGTYHAAKC  
MSASYQEAKCKLSYLQQHGYGSWIVKSPCIEQFNM

>sp|Q6NVV9|ADAM5\_HUMAN Putative disintegrin and metalloproteinase domain-containing  
protein 5 OS=Homo sapiens GN=ADAM5 PE=5 SV=2

MQTSILIKSSCRPQFQRRFHHRMQKIQNIISILSSASVINSYDENDIRHSPKLLVQMDC  
NYNGYVAGIPNSLVTLSVCSGLRGTMLKNISYGIEPMEAVSGFIHKIYEEKYADTNILL  
EENDTYTFWNSEYQVRKSSEKTDIFIKLFPRYIEMHIVVDKNLFKPANMICRKSVMGKEDF  
TEYCNGLDPYCLPDTYVRDGEYCDSSGAFCFQKCRFTFDKQCDDLIGRSGRGAPVFCYDE  
INTRGDNFGNCGTAHCLFQHILCGKLVCTWEHRDLISRPNLSVIYAHVRDQTCVSTYLPR  
RTPPPVNSPISITSYSAEDRDETFFVQDGSMDGPDMYCFEMHCKHVRFLMNLKLCNASNH  
CDRHGVCNNFNHCHCEKGYNPPYCQPKQGAFGSIDDGHLVPPTERSYMEEGR

>sp|Q7Z6V5|ADAT2\_HUMAN tRNA-specific adenosine deaminase 2 OS=Homo sapiens GN=ADAT2 PE=1  
SV=1

MEAKAAPKPAASGACSVSAEETEKWMEEAMHMAKEALENTEVPVGCLMVYNNEVVGKGRN  
EVNQTKNATRAEMVAIDQVLDWCRQSGKSPSEVFHTVLYVTVEPCIMCAALRLMKIP  
LVVYGCCNERFGGCSVLNIASADLPNTGRPFQCI PGYRAEEAVEMLKTFYKQENPNAPK  
SKVRKKECQKS

>sp|P31946|1433B\_HUMAN 14-3-3 protein beta/alpha OS=Homo sapiens GN=YWHAB PE=1 SV=3

MTMDKSELVQKAKLAEQAERYDDMAAMKAVTEQGHELSNEERNLLSVAYKNVVGARRSS  
WRVISSIEQKTERNEKKQMGKEYREKIEAELQDICNDVLELLDKYLIPNATQPESKVFY  
LKMKGDFRYLSEVASGDNKQTTVSNSQQAYQEAFAISKKEMQPTHPIRLGLALNFSVFY  
YEILNSPEKACSLAKTAFDEAIAELDTLNEESYKDSTLIMQLLRDNLTLWTSENQGDEGD  
AGEGEN

>sp|P18463|1B37\_HUMAN HLA class I histocompatibility antigen, B-37 alpha chain OS=Homo  
sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTLLLLWGAVALTETWAGSHSMRYFHTSVSRPGRGEPRFISVGYYDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWDRETQISKNTNTQTYREDLRTLLRYYNQSEAGSHTIQ  
RMSGCDVGPDRLLRGYNQFAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAARVAEQD  
RAYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P10319|1B58\_HUMAN HLA class I histocompatibility antigen, B-58 alpha chain OS=Homo  
sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWDGETRNMKASQTYRENLRALRYYNQSEAGSHIIQ  
RMYGCDLGPDRLLRGHDQSAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P30498|1B78\_HUMAN HLA class I histocompatibility antigen, B-78 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MVRTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWDRTQIFKTNTQTDRESLRNLRGYNQSEAGSHTWQ  
TMYGCDVGPDRLLRGHNQYAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGLCWEVLRRHLENGKETLQRADPPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGSVDVSL  
TA

>sp|Q9TNN7|1C05\_HUMAN HLA class I histocompatibility antigen, Cw-5 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMAPRTLILLLSGALALTETWACSHSMRYFYTAVSRPGRGEPRFIAVGYVDDTQFVQF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYKRQAQTDVNLRLKLRGYNQSEAGSHTLQ  
RMYGCDLGPDRLLRGYNQFAYDGKDYLALNEDLRSWTAADKAAQITQRKWEAAREAEQR  
RAYLEGTCWEVLRRYLENGKKTQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWGP  
SSQPTIPIVGIVAGLAVLAVLAVLAVLAVMAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIACKA

>sp|Q07000|1C15\_HUMAN HLA class I histocompatibility antigen, Cw-15 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMAPRTLILLLSGALALTETWACSHSMRYFYTAVSRPGRGEPHFIAVGYVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQNYKRQAQTDVNLRLKLRGYNQSEAGSHIIQ  
RMYGCDLGPDRLLRGHDQLAYDGKDYLALNEDLRSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGTCWEVLRRYLENGKETLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLAVLAVMAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIACKA

>sp|Q14738|2A5D\_HUMAN Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform OS=Homo sapiens GN=PPP2R5D PE=1 SV=1

MPYKLKKEKEPPKVAKCTAKPSSSGKDGGGENTEEAQPQPQPQPQAQSPSSNKRPS  
NSTPPPTQLSKIYSGGPQIVKKERRQSSSRFNLSKNRELQKLPALKDSPTQEREELFIQ  
KLRQCCVLFDFVSDPLSKFKEVKRAGLNEMVEYITHSRDVVTEAIYPEAVTMFSVNL  
RTLPPSSNPTGAEFDPDEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIKKYIDQKFV  
LALLDLFDSEDPREDLFTILHRIYGKFLGLRAYIRRNHIFYRFIYETEHNGIAEL  
LEILGSIINGFALPLKEEHKMFLIRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESLTP  
VIVGLLKFWPKTHSPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAE  
RALYYWNNEYIMSLISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKL  
FDDCTQQYKAEKQKGRFRMKEREEMWQKIEELARLNPQYPMFRAPPPLPPVYSMETETPT  
AEDIQLLKRTVETEAVQMLKDIKKEKVLLRRKSELQDVYTIKALEAHKRAEEFLTASQE  
AL

>sp|Q66LE6|2ABD\_HUMAN Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform OS=Homo sapiens GN=PPP2R2D PE=2 SV=1

MAGAGGGGCPAGGNDFQWCFQVKGAIDEDVAEADIISTVEFNYSGLLATGDKGGRVVI  
FQREQENKSRPHSRGEYNVYSTFQSHEPEFDYLSLEIEEKINKIRWLPQQNAHFLLST

NDKTIKWKISERDKRAEGYNLKDEDGRLRDPFRITALRVPIPKMDLMVEASPRRIFAN  
AHTYHINSISVNSDHETYLSADDLRINLWHLEITDRSFNIVDIKPANMEELTEVITAAEF  
HPHQCNVVFYSSSKGTIRLCDMRSSALCDRHSKFFEEPDPSSRSFFSEIISISDVKFS  
HSGRYMMTRDYL SVKVDLNMESRPVETHQVHEYLRSKLSLYENDCIFDKFECCWNGSD  
SAIMTGSYNNFFRMFDRDTRRDVTL EASRESSKPRASLKPRKVCTGGKRRKDEISVDSL  
DNKKILHTAWHPVDNVI AAVATNNLYIFQDKIN

>sp|Q95IE3|2B1C\_HUMAN HLA class II histocompatibility antigen, DRB1-12 beta chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLRLPGGSCMAVLTVTLMLVSSPLALAGDTRPRFLEYSTGECYFFNGTERVRLLEH  
HNQEELLRFDSVGEFRAVTELGPRVAESWNSQKDILEDRAAVDTYCRHNYGAVESFTV  
QRRVHPKVTVPYPSKTQPLQHNNLLVCSVSGFYPGSIEVRWFRNGQEEKTGTVSTGLIHNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPRGFLS

>sp|P01911|2B1F\_HUMAN HLA class II histocompatibility antigen, DRB1-15 beta chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=2

MVCLKLPGGSCMTALTVTLMLVSSPLALSGDTRPRFLWQPKRECHFFNGTERVRFDRYF  
YNQEESVRFDSVGEFRAVTELGPRDAEYWNSQKDILEQARAADTYCRHNYGVVESFTV  
QRRVQPKVTVPYPSKTQPLQHNNLLVCSVSGFYPGSIEVRWFLNGQEEKAGMVSTGLIQNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|Q29974|2B1G\_HUMAN HLA class II histocompatibility antigen, DRB1-16 beta chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLKLPGGSCMTALTVTLMLVSSPLALAGDTRPRFLWQPKRECHFFNGTERVRFDRYF  
YNQEESVRFDSVGEYRAVTELGPRDAEYWNSQKDFLEDRAAVDTYCRHNYGVGESFTV  
QRRVQPKVTVPYPSKTQPLQHNNLLVCSVSGFYPGSIEVRWFLNGQEEKAGMVSTGLIQNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|P29372|3MG\_HUMAN DNA-3-methyladenine glycosylase OS=Homo sapiens GN=MPG PE=1 SV=3

MVTPALQMKKPKQFCRRMGKKQRPARAGQPHSSSDAAQAPAEQPHSSSDAAQAPCPRER  
CLGPPTTPGPYRSIYFSSPKGHLTRLGLEFFDQPAVPLARAFLGQVLVRRLPNGTELGR  
IVETEAYLGPEDAAHSRGGRQTPRNRGMFMKPGTLYVYIIYGMYFCMNISSQGDGACVL  
LRALEPLEGLETMQRSLTRKGTASRVLDRELCSGPSKLCQALAINKSFQDRDLAQDE  
AVWLERGPLEPSEPAVVAARVGVGHAGEWARKPLRFYVRGSPWVSVDRAEQDTQA

>sp|Q5VUR7|A20A3\_HUMAN Ankyrin repeat domain-containing protein 20A3 OS=Homo sapiens GN=ANKRD20A3 PE=3 SV=1

MKLFGFGSRRGQTAQGSIDHVTGSGYRIRDSELQKIHRAAVKGDAAEVERCLARRSGDL  
DALDKQHR TALHLACASGHVQVVTLLVNRKCQIDVCDKENRTPLIQAVHCQEEACAVILL  
EHGANPNLKDIYGN TALHYAVYSESTSLAEKLLSHGAHIEALDKDNTPLLFAIICKKEK  
MVEFLKRRKASSHAVDRLRRSALMAVYYDSPGIVNILLKQNI DVFAQDMCGRDAEDYAI  
SHHLTKIQQQILEHKKKILKKEKSDVGSSDES AVSIFHEL RVDSLPASDDKDLNVATKQC  
VPEKVSEPLPGSSHEKGNRI VNGQGE GPPAKHPSLKPSTEVEDPAVKGAVQRKNVQTLRA  
EQALPVASEEEQERHERSEKKQPQVKEGNNTNKSEKIQLSENICDSTSSAAAGRLTQQRK  
IGKTYPQQFPKKLKEEHDRCTLKQENEEKTNVNMLYKKNREELERKEKQYKKEVEAKQLE  
PTVQSLEMKSKTARNTPNRDFHNHEEMKGLMDENCILKADIAILRQEICTMKNDNLEKEN

KYLDIKIVKETNAALEKYIKLNEEMITETAFRYQQELNYLKAENTRLNAELLKEKESKK  
RLEADIESYQSRLAAAISKHSESVKTERNLKLALERTDVSQVEMSSAISKVKDENEFL  
TEQLSETQIKFNALDKDKFRKTRDSLKSLALETVQNDLSQTQQQTQEMKEMYQNAEAKV  
NNSTGKWNCVEERICHLQRENAWLVQQLDDVHQKEDHKEIVTNIQRGFIESGKKDLVLEE  
KSKKLMNECDHLKESLFQYEREKTEGVVSIKEDKYFQTSRKTI

>sp|Q9UNA3|A4GCT\_HUMAN Alpha-1, 4-N-acetylglucosaminyltransferase OS=Homo sapiens  
GN=A4GNT PE=2 SV=1

MRKELQLSLSVTLLLVCGFLYQFTLKSSCLFCLPSFKSHQGLEALLSHRRGIVFLETSE  
MEPHLVSCSVESAAKIYPEWPVVFMMKGLTDSTPMPSNSTYPAFSFLSAIDNVFLPLD  
MKRLLEDTPLFSWYNQINASAERNWLHISSDASRLAIWKYGGIYMDTDVISIRPIPEEN  
FLAAQASRYSSNGIFGLPHHPFLWECMENFVEHYNSAIWGNQGPMLTRMLRVWCKLED  
FQEVSDLRCLNISFLHPQRFYPISYREWRRYEVWDTEPSFNVSYALHLWNHMQEGRV  
IRGNTLVENLYRKHCPRTYRDLIKPEGSVTGELGPGNK

>sp|P30542|AA1R\_HUMAN Adenosine receptor A1 OS=Homo sapiens GN=ADORA1 PE=1 SV=1

MPPSISAFQAAYIGIEVLIALVSPGNVLVIWAVKVNQALRDATFCFIVSLAVADVAVGA  
LVIPLAILINIGPQTYFHTCLMVACPVLILTQSSILALLAIAVDRYLRVKIPLRYKMVVT  
PRRAVAIAGCWILSFVVGLTPMFGWNNLSAVERAWAANGSMGEPVIKCEFEKVISMEYM  
VYFNFFVWVLPPLLMVLIYLEVFYLIRKQLNKKVSASSGDPQKYKGKELKIAKSLALIL  
FLFALSWLPLHILNCITLFCPSCHKPSILTYIAIFLTHGNSAMNPIVYAFRIQKFRVTFL  
KIWNDFRCQPAPPIDEDLPEERPDD

>sp|P29274|AA2AR\_HUMAN Adenosine receptor A2a OS=Homo sapiens GN=ADORA2A PE=1 SV=2

MPIMGSSVYITVELAIAVLAILGNVLCWAVWLNLSNLQNVNTNYFVVSLLAAADIAVGVLAI  
PFAITISTGFCACHGCLFIACFVLVLTQSSIFSLAIAIDRYIAIRIPLRYNGLVTGTR  
AKGIIAICWVLSFAIGLTPMLGWNCCGPKGKNHSQGCGEQVACLFEDEVPMNYMVYF  
NFFACVLVPLLLMLGVYLRIFLAARRQLKQMESQPLPGERARSTLQKEVHAAKSLAIIVG  
LFALCWLPPLHIINCFTFPCDCHAPLWMLYLAIVLSHTNSVVNPFYIAYRIREFRQTFR  
KIIRSHVLRQQEPFKAAGTSARVLAAHGSDGEQVSLRLNGHPPGVWANGSAPHPERRPNG  
YALGLVSGSAQESQNGTGLPDVELLSHELKGVCEPPGLDDPLAQDGAGVS

>sp|P22760|AAAD\_HUMAN Arylacetamide deacetylase OS=Homo sapiens GN=AADAC PE=1 SV=5

MGRKSLYLLIVGILIAYYIYTPLPDNVEEPWRMMWINAHLKTIQNLATFVELLGLHHFMD  
SFKVVGSGFDEVPPTSDENVTVTETKFNNILVRVYVPKRKSEALRRGLFYIHGGWCVGSA  
ALSGYDLLSRWTADRLDAVVVSTNYRLAPKYHFP IQFEDVYNALRWFLRKKVLAKYGNP  
ERIGISGDSAGGNLAAAVTQQLDDPDVKIKLKIQSLIYPALQPLDVLPSYQENSNFLF  
LSKSLMVRFWSEYFTTDRSLEKAMLSRQHVPVESSHLFKFVNWSSLLPERFIKGHVYNNP  
NYGSSELAKKYPGFLDVRAAPLLADDNKLRLPLTYVITCQYDLLRDDGLMYVTRLRNTG  
VQVTHNHVEDGFHGAFSFLGLKISHRLINQYIEWLKENL

>sp|Q15758|AAAT\_HUMAN Neutral amino acid transporter B(0) OS=Homo sapiens GN=SLC1A5 PE=1  
SV=2

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVV  
AVVAGVALGLGVSGAGGALALGPERLSAFVFPGELLRLRLMIILPLVVCSLIGGAASLD  
PGALGRLGAWALLFFLVTTLLASALGVGLALALQPGAASAAINASVGAAGSAENAPSKEV  
LDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVQGQVEGMNIGLVVFAIV  
FGVALRKLGPGEGLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA  
RLGKYILCCLLGHAIHGLLVPLIYFLFTRKNPYRFLWGITPLATAFGTSSSSATLPLM

MKCVEENNGVAKHISRFILPIGATVNMDGAALFQCVAAVFIAQLSQQSLDFVKIITILVT  
ATASSVGAAGIPAGGVLTLAIILEAVNLPVDHISLILAVDWLVDRSCTVLNVEGDALGAG  
LLQNYVDRTESRSTPELIQVKSELPLDPLVPVTEEGNPLLKHYRGPAGDATVASEKESV  
M

>sp|Q4LEZ3|AARD\_HUMAN Alanine and arginine-rich domain-containing protein OS=Homo sapiens  
GN=AARD PE=2 SV=1

MGPGDFRRCRERISQGLQGLPGRAELWFPPRPACDFFGDGRSTDIQEEALAASPLEDLR  
RRLTRAFQWAVQRAISRVRQEAASAAAAAREEQSWTGVEATLARLARLRAELVEMHFQNHQLAR  
TLDDLNMKVQQLKKEYELEITSDSQSPKDDAANPE

>sp|P86434|AAS1\_HUMAN Putative uncharacterized protein ADORA2A-AS1 OS=Homo sapiens  
GN=ADORA2A-AS1 PE=5 SV=1

MEQDWQPGEEVTPGPEPCSKGQAPLYPIVHVTELKHTDPNFPSNSNAVGTSSGWNRI GTG  
CSHTWDWRFSC TQQALLPLLGAWESIDTEAGGGRREQSQKPCSNGGPAAAGEGRVLPSP  
CFPWSTCQAAIHKVCRWQGCTRPALLAPSLATLKEHSYP

>sp|Q9BZC7|ABCA2\_HUMAN ATP-binding cassette sub-family A member 2 OS=Homo sapiens GN=ABCA2  
PE=1 SV=3

MGFLHQLQLLLWKNVTLKRRSPWVLA FEIF IPLVLFFILLGLRQKKPTISVKEAFYTAAP  
LTSAGILPVMQSLCPDGQRDEFGLQYANSTVTQLLERLDRVVEEGNLFDPARPSLGSEL  
EALRQHLEALSAGPGTSGSHLDRSTVSSFSLDSVARNPQELWRFLTQNLSLPNSTAQALL  
AARVDPPEVYHLLFGPSSALDSQSLHKGQEPWSRLGGNPLFRMEELLAPALLEQLTCT  
PGSGELGRILTPESQKGALQGYRDAVCSGQAAARARRFSGLSAELRNQLDVAKVSQQLG  
LDAPNGSDSSPQAPPPRRLQALLGDLLDAQKVLQDQDVL SALALLLPQGACTGRTPGPPA  
SGAGGAANGTGAGAVMGPNATAEEGAPSAALATPDTLQGQCSAFVQLWAGLQPILCGNN  
RTIEPEALRRGNMSSLGFTSKEQRNLGLLVHMTSNPKILYAPAGSEVDRVILKANETFA  
FVGNVTHYAQVWLNISAEIRSFLEQGRLLQHLRWLQQYVAELRLHPEALNLSDELPPAL  
RQDNFSLPSGMALLQQLDTIDNAACGWIQFMSKVSVDIFKGFHDEESIVNYTLNQAYQDN  
VTVFASVIFQTRKDGS LPPHVHYKIRQNSSFTEKTNEIRRAYWRPGPNTGGRFYFLYGFV  
WIQDMMERAIIDTFVGHDVVEPGSYVQMFPPYPCYTRDDFLFVIEHMMPLCMVISWVYSVA  
MTIQHIVA EKEHRLKEVMKTMGLNNAVHWVAFITGFVQLSISVTALTAILKYQVLMHS  
HVVI IWLFLAVYAVATIMFCFLVSVLYSKAKLASACGGIIYFLSYVPYMYVAIREEVAHD  
KITAFEKCIASLMSTTAFGLGSKYFALYEVAGVGIQWHTFSQSPVEGDDFNLLAVTMLM  
VDAVVYGILTWYIEAVHPGMYGLPRPWYFPLQKSYWLGSGRTEAWESWPWARTPRLSVM  
EEDQACAMESRRFEETRGMEEPTHPLVVCVDKLT KVYKDDKKLALNKLNLNLYENQVV  
SFLGHNGAGKTTTMSILTGLFPPTSGSATIYGHDIRTEMDEIRKNLGMCPQHNVLFDRLT  
VEEHLWFYSRLKSMAQEEIRREMDKMIEDLELSNKRHSLVQTLSGGMKRKLSVAIAFVGG  
SRAI ILDEPTAGVDPYARRAIWDLILKYKPGR TILLSTHHMDEADLLGDRIAIISHGKLK  
CCGSPLFLKGTYG DYRLTLVKRPAEPGGPQEPGLASSPPGRAPLSSCSELQVSQFIRKH  
VASCLLVSDTSTELSYILPSEAAKKGA FERLFQH LERSLDALHLSSFGLMDTTLEE VFLK  
VSEEDQSLENSEADV KESRKDVLPGAEGPASGE GHAGNLARCSELTQSQASLQSASSVGS  
ARGDEGAGYTDVYGYRPLFDNPQDPDNVSLQEVEAEALSRVQGGSRKLDGGWLKVRQFH  
GLLVKRFHCARRNSKALFSQILLPAFFVCVAMTVALSVPEIGDLPPLVLSPSQYHNYTQP  
RGNFIPYANEERREYRLRLSPDASPQQLVSTFRLPSGVGATCVLKSPANGSLGPTLNLSS  
GESRLLAARFFDSMCLESFTQGLPLSNFVPPPPSPAPSDSPASPEDLQAWNVS LPPTAG  
PEMWTSA PSLPRLVREPVRCTCSAQTGFSCPSSVGGHPPQMRVVTGDILT DITGHNVSE

YLLFTSDRFLHRYGAIITFGNVLSIPASFGTRAPPMVRKIAVRRAAQVFYNNKGYHSMP  
TYLNSLNAILRANLPKSKGNPAAYGITVTNHPMNKTSASLSLDYLLQGTDVVIAIFIIV  
AMSFVPASFVVFLVAEKSTKAKHLQFVSGCNPIIYWLANYVWDMNLNYPATCCVILFV  
FDLPAYTSPTNFAVLSLFLLYGWSITPIMYPASFWFVPSAYVFLIVINLFIGITATV  
ATFLLQLFEHDKDLKVNSYLKSCFLIFPNYNLGHGLMEMAYNEYINEYYAKIGQFDKMK  
SPFEWDIVTRGLVAMAVEGVVGFLLTIMCQYNFLRRPQRMVSTKPVEDDQDVASERQRV  
LRGDADNDMVKIENLTKVYKSRKIGRILAVDRLCLGVRPGECFLLGVNGAGKTSTFKML  
TGDESTTGGEAFVNGHSVLKELLQVQQSLGYCPQCDALFDELTAREHLQLYTRLRGISWK  
DEARVVKWALEKLELTKYADKPAGTYSGGNKRKLSTAIALIGYPAFIFLDEPTTGMDPKA  
RRFLWNLILDLIKTGRSVVLTSHSMEECEALCTRLAIMVNGRLRCLGSIQHLKNRFGDGY  
MITVRTKSSQSVKDVVRFFNRNFPAMLKERHHTKVQYQLKSEHISLAQVFSKMEQVSGV  
LGIEDYSVSQTTLDNVFVNAKKQSDNLEQQETEPPSALQSPLGCLLSLLRPRSAPTEL  
ALVADEPEDLDTEDEGLISFEEERAQLSFNTDTLC

>sp|Q99758|ABCA3\_HUMAN ATP-binding cassette sub-family A member 3 OS=Homo sapiens GN=ABCA3  
PE=1 SV=2

MAVLRQLALLWKNYTLQKRKVLVTVLELFLPLLFSGILIWRLKIQSENVPNATIYPGQ  
SIQELPLFFTFPPGDTWELAYIPSHSDAAKVTETVRRALVINMRVGRFPSEKDFEDI  
RYDNCSSSVLAAVFEHPFNHSKEPLPLAVKYHLRFSYTRRNYMWTQTGSFFLKETEGWH  
TTSFLPLFPNPGPREPTSPDGGEPGYIREGFLAVQHAVDRAIMEYHADAATRQLFQRLTV  
TIKRFPPYPIADPFLVAIQYQLPLLLLSFTYTALTIAARVVQEKERRLKEYMRMGLS  
SWLHWSAWFLFLFLLIAASFMTLLFCVKVKPNVAVLSRSDPSLVLAFLLCFAISTISF  
SFMVSTFFSKANMAAAFGGFLYFFTYIPYFFVAPRYNWMTLSQKLCCLLSNVAMAMGAQ  
LIGKFEAKGMIQWRDLLSPVNVDDDFCFGQVLGMLLLDSVLYGLVTWYMEAVFPGQFGV  
PQPWYFFIMPSYWCCKPRAVAGKEEEDSDPEKALRNEYFEAEPEDLVAGIKIKHLSKVFR  
VGNKDRAAVRDLNNLNLYEGQITVLLGHNGAGKTTLSMLTGLFPPTSGRAYISGYEISQD  
MVQIRKSLGLCPQHDILFDNLVAEHLFYFAQLKGLSRQKCPVEVKQMLHIIGLEDKWN  
RSRFLSGGMRRKLSIGIALIAGSKVLILDEPTSGMDAISRRAIWDLLQRQKSDRTIVLTT  
HFMDEADLLGDRIAIMAKGELCCGSSFLKQKYGAGYHMTLVKEPHCNPEDISQLVHHH  
VPNATLESSAGAELSFILPRESTRFEGLFAKLEKKQKELGASFGASITMEEVFLRVG  
KLVDSSMDIQAIQLPALQYQHERRASDWAVDSNLCGAMPDSDGIGALIEEERTAVKLNTG  
LALHCQQFWAMFLKKAAYSREWKMVAQVLVPLTCVTLALLAINYSSELFDDPMLRLTL  
GEYGRTVVPFSVPGTSQLGQQLSEHLKDALQAEQEPREVLGDLEEFIFRASVEGGGFN  
ERCLVAASFRDVGERTVVNALFNNQAYHSPATALAVVDNLLFKLLCGPHASIVVSNFPQP  
RSALQAAKDQFNEGRKGFIDIALNLLFAMAFLASTFSILAVSERAVQAKHVQFVSGVHVAS  
FWLSALLWDLISFLIPSLLLLTVFKAQFVRAFTRDGHMADTLLLLLLYGWAIPLMYLMN  
FFFLGAATAYTRLTIFNILSGIATFLMVTIMRIPAVKLEELSKTLDHVFLVLPNHCLGMA  
VSSFYENYETRRYCTSSSEVAAHYCKKYNIQYQENFYAWSAPGVGRFVASMAASGCAYLIL  
LFLIETNLLQRLRGILCALRRRRTLTLEYTRMPVLPEDQDVADERTRILAPSPDSLHHTP  
LI IKELSKVYEQRPVLLAVDRLSLAVQKGEFCFLLGFNGAGKTTTFKMLTGEESLTSGDA  
FVGGHRISSDVGKVRQIRIGYCPQFDALLDHMTGREMLVYARLRGIPERHIGACVENTLR  
GLLLEPHANKLVRTYSGGNKRKLSTGIALIGEPAVIFLDEPSTGMDPVARRLLWDTVARA  
RESGKAIITSHSMEECEALCTRLAIMVQGGQFKLGSPQHLKSKFGSGYSLRAKVQSEGQ  
QEALIEEFKAFVDLTFPGSVLEDEHQGMVHYHLPGRDLSWAKVFGILEKAKEKYGVDDYSV  
SQISLEQVFLSFAHLQPPTAEGR

>sp|P61221|ABCE1\_HUMAN ATP-binding cassette sub-family E member 1 OS=Homo sapiens GN=ABCE1  
PE=1 SV=1

MADKLTRIAIVNHDCKPKKCRQECKKSCPVVRMGKLCIEVTPQSKIAWISETLCIGCGI  
CIKKCPFGALSIVNLPSNLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSTAL  
KILAGKQKPNLGKYDDPPDWQEILTYFRGSELQNYFTKILEDDLKAI IKPQYVDQIPKAA  
KGTVGSILDRKDETKTQAIVCQQLDLTHLKERNVEDLSGGELQRFACAVVCIQKADIFMF  
DEPSSYLDVKQRLKAAITIRSLINPDRIIIVVEHDLVLDYLSDFICCLYGVP SAYGVVT  
MPFSVREGINIFLDGYVPTENLRF RDASLVFKVAETANEEVKKMCMYKYPGMKKKMGFE  
ELAIVAGEFTDSEIMVMLGENTGKTTFIRMLAGRLKPDEGGEVPLNVSYKPKISPKS  
TGSVRQLLHEKIRDAYTHPQFVTDVMKPLQIENIIDQEVQTLSSGGELQRVALALCLGKPA  
DVYLIDEPSAYLDSEQRMAARVVKR FILHAKKTA FVVEHDFIMATYLADRVIVFDGVPS  
KNTVANSPQTLLAGMNKFLSQLEITFRDPNNYRPRINKLNSIKDVEQKSGNYFFLDD

>sp|Q9H172|ABCG4\_HUMAN ATP-binding cassette sub-family G member 4 OS=Homo sapiens GN=ABCG4  
PE=1 SV=2

MAEKALEAVGCGLPGAVAMAVTLEDGAEPVLTTHLKKVENHITEAQRFSHLPKRSAVD  
IEFVELSYSVREGPCWRKRGYKTLLKCLSGKFCRRELIGIMPSGAGKSTFMNILAGYRE  
SGMGKGQILVNGRPRELRTFRKMSCYIMQDDMLLPHLTVLEAMMV SANLKLSEKQEVKKEL  
VTEILTALGLMSCSHTRTALLSGGQRKRLAIALELVNPPVMFFDEPTSGLDSASCFQVV  
SLMKSLAQGGRTIICTIHQPSAKLFEMFDKLYILSQGQCIFKGVVTNLIPYLKGLGLHCP  
TYHNPADFII EVASGEYGLNPMFLFRAVQNGLCAMAEKKSSPEKNEVPAPCPPCPPEVDP  
IESHTFATSTLTQFCILFKRTFLSILRDTVLTHLRFMSHVVGVLIGLLYLHIGDDASKV  
FNNTGCLFFSMLFLMFAALMPTVLTFPLEMAVFMREHLNYWYSLKAYYLAKT MADVPFQV  
VCPVVYCSIVYWMTGQAETSRLFLSALATATALVAQSLGLLIGAASNQLQVATFVGPV  
TAIPVLLFSGFFVSFKTIPTYLQWSSYLSYVRYGFEVILTIYGMERGDLTCLERCPR  
EPQSILRALDVEDAKLYMDFLVLGIFFLALRLLAYLVLRVVKSER

>sp|QOP651|ABD18\_HUMAN Protein ABHD18 OS=Homo sapiens GN=ABHD18 PE=2 SV=1

MGVSKLDILYRRLTLTKLFI RGWGRPEDLKRLF EFRKMIGNRERCQNLVSSDYPVHDKI  
EEQSDCKILDGHFVSPMAHYVPDIMP IESVIARFQFIVPK EWN SKYRPVCIHLAGTGDHH  
YWRRRTL MARPMI KEARMA SLLLENPYYGCRKPKDQVRSSLKNVSDLFVMGGALVLESAA  
LLHWL EREGYGPLGMTGISMGHMASLAVSNWPKMPLIPCLSWSTASGVFTTTDSFKMG  
QEFVKHFTSSADKLTNLNLVSRTLNDISNQVVSQKPADCHNSSKTSVSATSEGLLLQDT  
SKMKRFNQTLSNKGYSRNPQSYHLLSKEQSRNSLRKESLIFMKGVMDECTHVANFSV  
PVDPSLIIVVQAKEDAYIPRTGVRSLQEIWPGCEIRYLEGGHISAYLFKQGLFR

>sp|Q96I13|ABHD8\_HUMAN Protein ABHD8 OS=Homo sapiens GN=ABHD8 PE=2 SV=1

MLTGVTDGIFCCLLGTPNAVGPLESVESSDGYTFVEVKPGRVLRVKHAGPAPAAAPPP  
SSASSDAAQGDLSGLVRCQRRITVYRNGRLLENLGRAPRADLLHGQNGSGEPAALEVE  
LADPAGSDGRLAPGSAGSGSGSGSGRRRRARRPKRTIHIDCEKRITSCKGAQADV LFF  
IHVGGS LAIWKEQLDFFVRLGYEVVAPDLAGHGASSAPQVAAAYTFYALAEDMRAIFKR  
YAKKRNVLIGHSYGSFCTFLAHEY PDLVHKVIMINGGGPTALEPSFCSIFNMPTCVLHC  
LSPCLAWSFLKAGFARQGAKEKQLLKEGNAFNVSSFVLRAMMSGQYWPEGDEVYHAELTV  
PVLLVHGMHDKFVPVEEDQRMAEILLLAFLKLIDEGSHVMLECPETVNTLLHEFLLWEP  
EPSPKALPEPLPAPPEDKK

>sp|Q7L211|ABHDD\_HUMAN Protein ABHD13 OS=Homo sapiens GN=ABHD13 PE=2 SV=1

MEKSWMLWNFVERWLI ALASWSWALCRISLLPLIVTFHLYGGIILLLLIFISIAGILYKF



QDVLLYFPEQPSSSRLYVPMPTGIPHENIFIRTKDGIRLNLLIRYTGDNSPYSPTIIYF  
HGNAGNIGHRLPNALLMLVNLKVNLLLDYRGGYKSEGEASEEGLYLDSEAVLDYVMTRP  
DLDTKIKIFLGRSLGGAVAIHLASENSHRISAIMVENTFLSIPHMASTLFSFFPMRYLPL  
WCYKNKFLSYRKISQCRMPSLFISGLSDQLIPPVMMKQLYELSPSRTKRLAIFPDGTHND  
TWQCQGYFTALEQFIKEVVKSHSPEEMAKTSSNVTII

>sp|Q8IZP0|ABI1\_HUMAN Abl interactor 1 OS=Homo sapiens GN=ABI1 PE=1 SV=4

MAELQMLLEEEIPSGKRALIESYQNLTRVADYCENNYIQATDKRKALEETKAYTTQSLAS  
VAYQINALANNVLQLLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTNNKNTSR  
THKIIAPANMERPVRYIRKPIDYTVLDDVGHGVKWLKAKHGNNQPARTGTLSTNPPTQK  
PPSPPMSSGRGTLGRNTPYKLTLEPVKPPTVPNDYMTSPARLGSQHSPGRTASLNQRPRTHS  
GSSGSGSRENSGSSSIGIPIAVPTSPPTIGPENISVPPPSGAPPAPPLAPLLPVSTVI  
AAPGSAPGSQYGTMRQISRHNSTSTSSGGYRRTPSVTAQFSAQPHVNGGPLYSQNSI  
SIAPPPPPMPQLTPQIPLTGFVARVQENIADSTPPPPPPDDIPMFDDSPPPPPPPVD  
YEDEEAADVQYNDPYADGPAWAPKNYIEKVVAIYDYTKDKDDELSFMEGAIIVYIKKND  
DGWYEGVCNRVTGLFPGNYVESIMHYTD

>sp|Q9GZZ6|ACH10\_HUMAN Neuronal acetylcholine receptor subunit alpha-10 OS=Homo sapiens  
GN=CHRNA10 PE=1 SV=1

MGLRSHHLSLGLLLFLLPAECLGAEGRLALKLFRDLFANYTSALRPVADTDQTLNVTLE  
VTLSQIIDMDERNQVLTLYLWIRQEWTDAYLRWDPNAYGGDLAIRIPSSLVWRPDIVLYN  
KADAQPPGSASTNVVLRHDGAVRWDAIPAITSRSCRVDAAFPFDAQHCGLTFGSWTHGGH  
QLDVRPRGAAASLADFVENVEWRVLGMPARRRVLTYGCCSEYPDVFTLLRRRAAYV  
CNLLPCVLISLLAPLAFHLPADSGEKVSLGVTLLALTVFQLLLAESMPAESVPLIGK  
YYMATMTMVFSTALTILIMNLHYCGPSVRPVPAAWARALLGHLARGLCVRERGEPCGQS  
RPPELSPSPQSPEGGAGPPAGPCHEPRCLCRQEALLHHVATIANFRSHRAAQRCHEDWK  
RLARVMDRFFLAIFFSMALVMSLLVLVQAL

>sp|P30532|ACHA5\_HUMAN Neuronal acetylcholine receptor subunit alpha-5 OS=Homo sapiens  
GN=CHRNA5 PE=1 SV=2

MAARGSGPRALRLLLLVQLVAGRCGLAGAAGGAQRGLSEPSSIAKHEDSLLKDLFQDYER  
WVRPVEHLNDKIKIKIFGLAISQLVDVDEKNQLMTTNVWLKQEWIDVKLRWNPDDYGGIKV  
IRVPSDSVWTPDIVLFDNADGRFEGTSTKTIVIRYNGTVTWTPANYKSSCTIDVTFPPFD  
LQNCMSMKFGSWTYDGSQVDIILEDQDVDKRDFDNGEWEIVSATGSKGNRTDSCCWYPV  
TYSFVIKRLPLFYTLFLIIPCIGLSFLTIVFYLPNEGEKICLCTSVLVSLTVFLLVIE  
EIIIPSSSKVIPLIGEYLVFTMIFVTLSIMVTVFAINIHRSSSTHNAMAPLVRKIFLHTL  
PKLLCMRSHVDYRFTQKEETESGSGPKSSRNTLEAALDSIRYITRHKENDVREVVEDW  
KFIAQVLDRMFLWTFLFVSIVGSLGLFVPVIYKWANILIPVHIGNANK

>sp|Q9UGM1|ACHA9\_HUMAN Neuronal acetylcholine receptor subunit alpha-9 OS=Homo sapiens  
GN=CHRNA9 PE=1 SV=2

MNWSHSCISFCWIYFAASRLRAAETADGKYAQKLFNDLFEDYSNALRPVEDTDKVLNVTL  
QITLSQIKMDERNQILTAYLWIRQIWHDAYLTWDRDQYDGLDSIRIPSDLVWRPDIVLY  
NKADDESSEPVNTNVVLRDGLITWDAPAITKSSCVVDVTFPPDNQQCNLTFGSWTYNG  
NQVDIFNALDSGDLSDFIEDVEWEVHGMPAVKNVISYGCCSEYPDVFTLLKRRSSFY  
IVNLLIPCVLISFLAPLSFYLPAAASGEKVS LGVTILLAMTVFQLMVAEIMPASENVPLIG  
KYYIATMALITASTALTIMVMNIHFCGAEARPVPHWARVILKYMSRVLFVYDVGESCLS  
PHHSRERDHLTKVYSKLPESNLKAARNKDLRKKDMNKRLKNDLGCQGNPQEAESYCAQ

YKVLTRNIEYIAKCLKDCHKATNSKGSEWKVAKVIDRFFMWIFFIMVFMVMTILIIARAD

>sp|P30926|ACHB4\_HUMAN Neuronal acetylcholine receptor subunit beta-4 OS=Homo sapiens  
GN=CHRN4 PE=1 SV=2

MRRAPSLVFLVALCGRGNCRVANAEKLMDDLNNKTRYNNLRPATSSSQLISIKLQL  
SLAQLISVNEREQIMTTNVWLKQEWTDYRLTNSSRYEGVNLRIPAKRIWLPDIVLYNN  
ADGTYEVSVYTNLIVRSNGSVLWLPPAIYKSACKIEVKYFPFDQQNCTLKFRSWTYDHTE  
IDMVLMTPTASMDDFTPSGEWDIVALPGRRTVNPQDPSYVDVTDYDFIIKRKPLFYTNLI  
IPCVLTTLLAILVFYLPSCDCEKMTLCISVLLALTFFLLLISKIVPPTSLDVPLIGKYL  
FTMVLVTFISVTSVCVLNVHHRSPSTHTMAPVWKRCFLHKLPTFLMKRPGPDSSPARAF  
PPSKSCVTKEPATATSTSPSNFYGNSMYFVNPAASAASKSPAGSTPVAIPRDFWLRSSGRF  
RQDVQEALGVSFIAQHMKNDDEDQSVVEDWKYVAMVVDRLFLWVFMFVCVLGTVGLFLP  
PLFQTHAASEGPYAAQRD

>sp|P30443|1A01\_HUMAN HLA class I histocompatibility antigen, A-1 alpha chain OS=Homo sapiens  
GN=HLA-A PE=1 SV=1

MAVMAPRTLLLLSGALALTQTWAGSHSMRYFFTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQKMEPRAPWIEQEGPEYWDQETRNMAHSQTDRANLGTLRGYNNQSEDGSHTIQ  
IMYGCDVGPDRFLRGYRQDAYDGKDYIALNEDLRSWTAADMAAQITKRKWEAVHAAEQR  
RVYLEGRCDGLRRYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWEL  
SSQPTIPIVGIIAGLVLLGAVITGAVVAVMWRRKSSDRKGGSYTQAASSDSAQGSVDVSL  
TACKV

>sp|P01892|1A02\_HUMAN HLA class I histocompatibility antigen, A-2 alpha chain OS=Homo sapiens  
GN=HLA-A PE=1 SV=1

MAVMAPRTLVLVLLSGALALTQTWAGSHSMRYFFTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMPEPRAPWIEQEGPEYWDGETRKVKAHSQTHRVDLGTLRGYNNQSEAGSHTVQ  
RMYGCDVGS DWRFLRGYHQYAYDGKDYIALKEDLRSWTAADMAAQTTKHKWEAAHVAEQL  
RAYLEGTCVEWLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDTFQKWAAVVVP SGQEQRYSCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLF GAVITGAVVAVMWRRKSSDRKGGSYQAASSDSAQGSVDVSL  
TACKV

>sp|P30483|1B45\_HUMAN HLA class I histocompatibility antigen, B-45 alpha chain OS=Homo sapiens  
GN=HLA-B PE=1 SV=1

MVRTAPRTVLLLLSAALALTETWAGSHSMRYFHTAMSRPGRGEPRFITVGYVDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWDRETQISKTNQTYRESLRNLRGYNNQSEAGSHTWQ  
RMYGCDLGP DGRLLRGYNQLAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAAARVAEQD  
RAYLEGLCVESLRRYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKSSGGKGGSYQAASSDSAQGSVDVSL  
TA

>sp|P30487|1B49\_HUMAN HLA class I histocompatibility antigen, B-49 alpha chain OS=Homo sapiens  
GN=HLA-B PE=1 SV=2

MVRTAPRTVLLLLSAALALTETWAGSHSMRYFHTAMSRPGRGEPRFITVGYVDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWDRETQISKTNQTYRENLR LRYNNQSEAGSHTWQ  
RMYGCDLGP DGRLLRGYNQLAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAAAREAEQL

RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P18464|1B51\_HUMAN HLA class I histocompatibility antigen, B-51 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWRNTQIFKTNTQTYRENLRALRYYNQSEAGSHTWQ  
TMYGCDVGP DGRLLRGHNQYAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P18465|1B57\_HUMAN HLA class I histocompatibility antigen, B-57 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRMAPRAPWIEQEGPEYWDGETRNMKASQTYRENLRALRYYNQSEAGSHIIQ  
VMYGCDVGP DGRLLRGHDQSAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGS DVSL  
TA

>sp|Q29836|1B67\_HUMAN HLA class I histocompatibility antigen, B-67 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAAALATETWAGSHSMRYFYTSVSRPGRGEPRFISVGYVDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWRNTQIYKAAQTDRESLRNLRGYYNQSEAGSHTLQ  
RMYGCDVGP DGRLLRGHNQFAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RTYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|Q29940|1B59\_HUMAN HLA class I histocompatibility antigen, B-59 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTL LLLLLWGALATETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWRNTQIFKTNTQTYRENLRALRYYNQSEAGSHTWQ  
TMYGCDLGP DGRLLRGHNQLAYDGKDYLALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P04222|1C03\_HUMAN HLA class I histocompatibility antigen, Cw-3 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2

MRVMAPRTL ILLLSGALATETWAGSHSMRYFYTAVSRPGRGEPHFIAVGYVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYKRAQTDRVSLRNLRGYYNQSEAGSHIIQ

RMYGCDVGPDGRLLRGYDQYAYDGKDYIALNEDLRSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGLCVEWLRRLYLKNGKETLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQWDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVVAVVMCRRKSSGGKGGSCSQAASSNSAAGSDES  
LIACKA

>sp|P10321|1C07\_HUMAN HLA class I histocompatibility antigen, Cw-7 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=3

MRVMAPRALLLLLSGGLALTETWACSHSMRYFDTAVSRPGRGEPRFISVGYVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYKRQAQADRVSLRNLRGYYNQSEDGSHTLQ  
RMSGCDLGPDGRLLRGYDQSAYDGKDYIALNEDLRSWTAADTAAQITQRKLEAARAAEQL  
RAYLEGTCEWLRRLYLENGKETLQRAEPPKTHVTHHPLSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHMQHEGLQEPLTLSEWEP  
SSQPTIPIVGIVAGLAVLVVLAVLGAVVTAMMCRRKSSGGKGGSCSQAACSNSAAGSDES  
LITCKA

>sp|P30508|1C12\_HUMAN HLA class I histocompatibility antigen, Cw-12 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2

MRVMAPRTLILLLSGALALTETWACSHSMRYFYTAVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYKRQAQADRVSLRNLRGYYNQSEAGSHTLQ  
RMYGCDLGPDGRLLRGYDQSAYDGKDYIALNEDLRSWTAADTAAQITQRKWEAAREAEQW  
RAYLEGTCEWLRRLYLENGKETLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVMAVVMCRRKSSGGKGGSCSQAASSNSAAGSDES  
LIACKA

>sp|Q29960|1C16\_HUMAN HLA class I histocompatibility antigen, Cw-16 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMAPRTLILLLSGALALTETWACSHSMRYFYTAVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYKRQAQTDVSLRNLRGYYNQSEAGSHTLQ  
WMYGCDLGPDGRLLRGYDQSAYDGKDYIALNEHLRSCTAADTAAQITQRKWEAARAAEQQ  
RAYLEGTCEWLRRLYLENGKETLQRAEHPKTHVTHHLVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVVAVVMCRRKSSGGKGGSCSQAASSNSAAGSDES  
LIACKA

>sp|O60516|4EBP3\_HUMAN Eukaryotic translation initiation factor 4E-binding protein 3 OS=Homo sapiens GN=EIF4EBP3 PE=1 SV=1

MSTSTSCPYPGGRDQLPDCYSTTPGGTLYATTPGGTRIYDRKFLLECKNSPIARTPPCC  
LPQIPGVTTPTAPLSKLEELKEQETEEEIPDDAQFEMDI

>sp|P28221|5HT1D\_HUMAN 5-hydroxytryptamine receptor 1D OS=Homo sapiens GN=HTR1D PE=1 SV=1

MSPLNQSAEGLPQEASNRSLNATETSEAWDPRTLQALKISLAVVLSVITLATVLSNAFVL  
TTILLTRKLHTPANYLIGSLATDLLVSILVMPISIAYTITHTWNFGQILCDIWLSSDIT  
CCTASILHLCVIALDRYWAITDALEYSKRRTAGHAATMIAIVWAISICISIPPLFWRQAK  
AQEEMSDCLVNTSQISYTIYSTCGAFYIPSVLLIILYGRIYRAARNRILNPPSLYGRFT  
TAHLITGSAGSSCLNSSLHEGSHSAGSPLFFNHVKIKLADSALERKRISAARERKAT  
KILGIILGAFIICWLPFFVVSLLVLPICRDSCWIHPALFDFFTWLGYNLSLINPIIYTVFN  
EEFRQAFQKIVPFRKAS

>sp|095264|5HT3B\_HUMAN 5-hydroxytryptamine receptor 3B OS=Homo sapiens GN=HTR3B PE=1 SV=1  
MLSSVMAPLWACILVAAGILATDTHHPQDSALYHLSKQLLQKYHKEVRPVYNWTKATTVY  
LDLFVHAILDVAENQILKTSVWYQEVWNDEFLSWNSSMFDEIREISLPLSAIWAPDIII  
NEFVDIERYPDLPVYVYVNSSGTIENYKPIQVVSACSLETYAFPFQVQNCSTFKSILHTV  
EDVDLAFLRSPEDIQHDKKAFLNDSEWELLSVSSTYSILQSSAGGFAQIQFNVMRRHPL  
VYVVSLLIPSIFLMLVDLGSFYLPNCRARIVFKTSVLVGTVFRVNMSNQVPRSVGSTP  
LIGHFFTICMAFLVLSLAKSIVLVKFLHDEQRGGQEQPFLCLRGDTDADRPRVEPRAQRA  
VVTESLYGEHLAQPGTLKEVWSQLQSI SNYLQTQDQDQQAEWLVLLSRFDRLLFQSY  
LFMLGIYTITLCSLWALWGGV

>sp|P47898|5HT5A\_HUMAN 5-hydroxytryptamine receptor 5A OS=Homo sapiens GN=HTR5A PE=2 SV=1  
MDLPVNLTFSLSLTPSPLETNHS LGKDDLRPSSPLLSVFGVLILTLLGFLVAATFAWNLL  
VLATILRVRTFHRVPHNLVASMVSDVLVAALVMPLSLVHELSGRRWQLGRRLCQLWIAC  
DVLCCASIWNVTAIALDRYWSITRHMEYTLRTRKCVSNVMIALTWALSAVISLAPLLFG  
WGETYSEGSEECQVSREPSYAVFSTVGAFYLPCLCVLFFVYWKIYKAAKFRVGSRKTNVS  
PISEAVEVKDSAKQPQMFTVRHATVTFQPEGDTWREKQEQRAALMVGILIGVFVLCWIP  
FFLTELISPLCSDIPAIWKSIFLWLGYSNSFFNPLIYAFNKNYNSAFKNFFSRQH

>sp|P50406|5HT6R\_HUMAN 5-hydroxytryptamine receptor 6 OS=Homo sapiens GN=HTR6 PE=1 SV=1  
MVPEPGPTANSTPAWGAGPPSAPGGSGWAAALCVVIALTAAANSLLI ALICTQPALRNT  
SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCI  
SLDRYLLILSPLRYKL RMTPLRALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC  
RLLASLPFVLVASGLTFPLPSGAICFTYCRILLAARKQAVQVASLTG MASQASETLQVP  
RTPRPGVESADSRRLATKHSRKALKASLTGILLGMFFVTWLPFFVANIVQAVCDCISPG  
LFDVLTWLG YCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP  
RPGLSLQQVLPLPLPPDSDSDSDAGSGSSGLRLTAQLLLPG EATQDPPLPTRAAA VNF  
FNIDPAEPELRPHPLGIPTN

>sp|P52209|6PGD\_HUMAN 6-phosphogluconate dehydrogenase, decarboxylating OS=Homo sapiens  
GN=PGD PE=1 SV=3

MAQADIALIGLAVMGQNLILNMNDHGFVVC AFNRTVSKVDDFLANEAKGTKVVGAQSLKE  
MVSKLKKPRRIILLVKAGQAVDDFIEKLVPLLDTGDIIDGGNSEYRDTTRRCRDLKAKG  
ILFVGSGVSGGEEGARYGPSLMPGGNKEAWPHIKTIFQGI AAKVGTGEPCCDWVGDEGAG  
HFVKMVHNGIEYGDMLICEAYHLMKDVLGMAQDEMAQAFEDWNKTELD SFLIEITANIL  
KFQD TDGKHLLPKIRDSAGQKGTKWTAISALEYGV PVTLIGEAVFARCLSSLKDERIQA  
SKKLKGPQKFQFDGDKSFLEDIRKALYASKIISYAQGFMLLRQAATEFGWTLNYGGIAL  
MWRGGCIIRS VFLGKIKDAFDRNP ELQNL LDDFFKSAVENCQDSWRRAVSTGVQAGIPM  
PCFTTALS FYDGYRHEMLPASLIQAQRDYFGAHTYELLAKPGQFIHTNWTGHGGTVSSSS  
YNA

>sp|Q5SQ80|A20A2\_HUMAN Ankyrin repeat domain-containing protein 20A2 OS=Homo sapiens  
GN=ANKRD20A2 PE=3 SV=1

MKLFGFGSRRGQTAQGSIDHVYTGSGYRIRDSELQKI HRAAVKGDAAEVERCLARRSGDL  
DALDKQHRTALHLACASGHVQVVTLLVNRKCQIDVCDKENRTPLIQAVHCQEEACAVILL  
EHGANPNLKDIYGN TALHYAVYSESTSLAEKLLSHGAHIEALDKDNNTPLLFAIICKKEK  
MVEFLLKRKASSHAVDRLRRSALMAVYYDSPGIVNILLKQNI DVFAQDMCGRDAEDYAI  
SHHLTKIQQQILEHKKKILKKEKSDVGSSDES AVSIFHEL RVDSLPASDDKDLNVATKQC  
VPEKVSEPLPGSSHEKGNRIVNGQGEGPPAKHPSLKPSTEVEDPAVKGAVQRKNVQTLRA

EQALPVASEEEQERHERSEKKQPQVKEGNNTNKSEKIQLSENICDSTSSAAAGRLTQQRK  
IGKTPQQFPKKLKEEHDRCTLKQENEEKTNVNMLYKKNREELERKEKQYKKEVEAKQLE  
PTVQSLEMKSKTARNTPNRDFHNHEEMKGLMDENCILKADIAILRQEICTMKNNDLEKEN  
KYLKDIKIVKETNAALEKYIKLNEEMITETAFRYQQELNDLKAENTRLNAELLKEKESKK  
RLEADIESYQSRLAAAI SKHSESVKTERNLKLALERTDVSQVEMSSAISVKDENEFL  
TEQLSETQIKFNALKDKFRKTRDSLRRKSLALETVQNDLSQTQQQTQEMKEMYQNAEAKV  
NNSTGKWNCVEERICHLQRENAWL VQQLDDVHQKEDHKEIVTNIQRGFIESGKKDLVLEE  
KSKKLMNECDHLKESLFQYEREKTEGVVSIKEDKYFQTSRKKI

>sp|P02750|A2GL\_HUMAN Leucine-rich alpha-2-glycoprotein OS=Homo sapiens GN=LRG1 PE=1 SV=2

MSSWSRQRPKSPGGI QPHVSRTLFLLLLLAASAWGVTLSPKDCQVFRSDHGSSISCQPPA  
EIPGYLPADTVHLAVEFFNLTHLPANLLQGASKLQELHLSNGLESLSPEFLRPVPQLRV  
LDLTRNALTGLPPGLFQASATLDTLVLENQLEVLEVS WLHGLKALGHLDLSGNRLRKLP  
PGLLANFTLLRTL DLGENQLETLPD LRLGRLQLERLHLEGNKLQVLGKDLLLPQPD LRY  
LFLNGNKLARVAAGAFQGLRQLDMLDLSNNSLASVPEGLWASLGQPNWMDRGFDISGNP  
WICDQNLSDLYRWLQAQKDKMFSQNDTRCAGPEAVKGQTLAVAKSQ

>sp|Q5T5F5|A4AS1\_HUMAN Uncharacterized protein ADAMTSL4-AS1 OS=Homo sapiens GN=ADAMTSL4-  
AS1 PE=2 SV=1

MWLWQDIQCCPAPPSAPPRALEPGRAPPPPGEGLGAGIPSLSPQKKPQSVGICVRQKGR  
QKAGLEKGNRKKELRQANCPSLRPQRKGADTRRLPRETRPTKKRTAAAPFLQLWNPAPH  
TSNGRTGDL

>sp|P05067|A4\_HUMAN Amyloid beta A4 protein OS=Homo sapiens GN=APP PE=1 SV=3

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGR LNMHMNVQNGKWDSDPSGTK  
TCIDTKEGILQYCQEVYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVG  
EFVSDALLVPDKCKFLHQERMDVCETHLHWHTVAKETCSEKSTNLHDYGM L LPCGIDKFR  
GVEFVCCPLAEESDNVDSADAEEDSDVWWGGADTDYADGSEDKVVEVAEEEEVAEVEEE  
EADDDDEDEDGDEVEEEAEPEYEATERTTSIATTTTTTTESVEEVVREVCSEQAETGPC  
RAMISRWFYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMVCGSAMSQSLLKTTQEPLARD  
PVKLPTTAASTPDAVDKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEAERQA  
KNLPKADKKAVIQHFQEKVESLEQEAANERQQLVETHMARVEAMLNDRRRRLALENYITAL  
QAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQIRSQVMTHLRVIYER  
MNQSLSLLYNPVAEIEQDEVDELLQKEQNYSDDLANMISEPRISYGN DALMPSLTET  
KTTVELLPVNGEFLD LQPWHSFGADSV PANTENEVEPVDARPAADRGLTTRPGSGLTN  
IKTEEISEVKMDAEFRHDSGYEVHHQKL VFFAEDVGSNKGAIIGLMVGGVVIATVIVITL  
VMLKKKQYTSIHG VVEVDAAVTPEERHLSKMQQNGYENPTYKFFEQQMN

>sp|Q9UGJ0|AAKG2\_HUMAN 5'-AMP-activated protein kinase subunit gamma-2 OS=Homo sapiens  
GN=PRKAG2 PE=1 SV=1

MGSVMDTKKKKDVSSPGSGGKKNASQKRRSLRVHIPDLSSFAMPLLDGDLEGSGKHSS  
RKVDSPFPGSPSKGFFSRGPQRPSSPMSAPVRPKTSPGSPKTVFPFSYQESPPRSPRR  
MSFSGIFRSSSKESPNSNPATSPGGIRFFSRSRKTSGLSSSPSTPTQVTKQHTFPLESY  
KHEPERLENRIYASSPPDTGQRFCPSSSQSPTRPPLASPTHYAPSKAAALAAALGPAEA  
GMLEKLEFEDEAVEDSESGVYMRFMRSCHKYDIVPTSSKL VVFD TTLQVKKAFFALVANG  
VRAAPLWESKKQSFVGMLTITDFINILHRYKSPMVQIYELEEHKIETWRELYLQETFKP  
LVNISPDASLFDVAVSLIKNIHRLPVIDPISGNALYILTHKRILKFLQLFMSDMPKPAF  
MKQNLDELGIGTYHNIAFIHPDTPIIKALNIFVERRISALPVVDES GKVVDIYSKFDVIN

LAAEKTNNLDITVTQALQHRSQYFEGVVCKNKLEILETIVDRIVRAEVHRLVVVNEADS  
IVGIISLSDILQALILTPAGAKQKETETE

>sp|Q9NY61|AATF\_HUMAN Protein AATF OS=Homo sapiens GN=AATF PE=1 SV=1

MAGPQPLALQLEQLLNPRPSEADPEADPEEATAARVIDRFDEGEDGEGDFLVVGSIRKLA  
SASLLDTDKRYCGKTTSRKAWNEDHWEQTLPGSSDEEISDEEGSGDEDESEGLGLEEYDED  
DLGAAEEQECGDHRESKKSRSHSAKTPGFSVQSI SDFEKFTKGMDLGSSEEEDEESGM  
EEGDDAEDSQGESEEDRAGDRNSEDDGVVMTFSSVKVSEEVEKGRAVKNQIALWDQLLEG  
RIKLQKALLTTNQLPQPDVFPFLFKDKGGPEFSSALKNSHKALKALLRSLVGLQEELLFQY  
PDTRYLVDTGTPNAGSEEISSEDELVEEKKQRRRVPKRKLEMEDYPSFMAKRFAFT  
VYRNRTLQKWHDKTKLASGKLKGFGAFERSILTQIDHILMDKERLLRRTQTKRSVYRVL  
GKPEPAAQVPPESLPGEPEILPQAPANAHKDLDEEIFDDDDFYHQLLRELIERKTSSLD  
PNDQVAMGRQWLAIQKLRSKIHKKVDRKASKGRKLRFHVLSKLLSFMAPIDHTTMNDAR  
TELYRSLFGQLHPPDEGHGD

>sp|Q96AK3|ABC3D\_HUMAN DNA dC->dU-editing enzyme APOBEC-3D OS=Homo sapiens GN=APOBEC3D  
PE=1 SV=1

MNPQIRNPMERMYRDTFYDNFENEPILYGRSYTWLCYEVKIKGRSNLLWDTGVFRGPVL  
PKRQSNHRQEVYFRFENHAEMCFLSWFCGNRLPANRRFQITWVFSWNPCLPCVVKVTKFL  
AEHPNVTLTISAARLYYYRDRDRWVLLRLHKAGARVKIMDYEDFAYCWENFVCNEGQPF  
MPWYKFDDNYASLHRTLKEILRNPMEAMYPHIFYFHFKNLLKACGRNESWLCFTMEVTKH  
HSAVFRKRGVFRNQVDPETHCHAERCFLSWFCDDILSPNTNYEVTWYTSWSPCECAGEV  
AEFLARHSNVNLTIFTARLCYFWDTDYQEGLCSLSQEGASVKIMGYKDFVSCWKNFVYSD  
DEPFKPWKGLQTNFRLLKRRLREILQ

>sp|Q8IUX4|ABC3F\_HUMAN DNA dC->dU-editing enzyme APOBEC-3F OS=Homo sapiens GN=APOBEC3F  
PE=1 SV=3

MKPHFRNTVERMYRDTFSYNFYNRPILSRRNTVWLCYEVKTKGPSRPRLDAKIFRGQVYS  
QPEHHAEMCFLSWFCGNQLPAYKCFQITWVFSWTPCPCVAKLAEFLAEHPNVTLTISAA  
RLYYYWERDYRRALCRLSQAGARVKIMDDEEFAYCWENFVYSEGQPFMPWYKFDDNYAFL  
HRTLKEILRNPMEAMYPHIFYFHFKNLRKAYGRNESWLCFTMEVVKHSPVSWKRGVFRN  
QVDPETHCHAERCFLSWFCDDILSPNTNYEVTWYTSWSPCECAGEVAEFLARHSNVNLT  
IFTARLYYFWDTDYQEGRLSLSQEGASVEIMGYKDFKYCWENFVYNDDEPFKPWKGLKYN  
FLFLDSKLQEILE

>sp|Q9NUT2|ABC8\_HUMAN ATP-binding cassette sub-family B member 8, mitochondrial OS=Homo  
sapiens GN=ABC8 PE=1 SV=3

MLVHLFRVGRGPGPFGRLLPPLRFQTFSAVRNTWRNGKTGQLHKAEGEYSDGYRSSLL  
RAVAHLRSQLWAHLPRAPLAPRWSPSAWCWVGALLGPMVLSKPHLCLVALCEAEEAPP  
ASSTPHVVGSRFNWKLFWQFLPHLLVLGVAVVLALGAALVNVQIPLLLGQLVEVVAKYT  
RDHVGSMFTESQNLSTHLLILYGVQGLLTFGYLVLLSHVGERMAVDMRRALFSSLLRQDI  
TFFDANKTGQLVSRLTTDVQEFKSSFKLVISQGLRSTQVAGCLVLSMLSTRLTLLLMV  
ATPALMGVGTLMGSLRKLRSQCQEIQIARAMGVADALGNVRTVRAFAMEQREEERYGAE  
LEACRCRAEELGRGIALFQGLSNIAFNCMVLGTLFIGGSLVAGQQLTGGLMSFLVASQT  
VQRSMANLSVLFGQVVRGLSAGARVFEYMALNPCIPLSGGCCVPKEQLRGSVTFQNVCF  
YPCRPGEVLKDFTLTLPFGKIVALVGQSGGKTTVASLLERFYDPTAGVVMLDGRDLRT  
LDPSWLRGQVVGFIQEPVLFGTTIMENIRFGKLEASDEEVYTAAREANAHEFITSFPEG  
YNTVVGERGTTLSGGQKQRLAIARALIKQPTVLILDEATSALDAESERVVQEALDRASAG

RTVLVIAHRLSTVRGAHCIVVMADGRVWEAGTHEELLKKGGLYAELIRRQALDAPRTAAP  
PPKKPEGPRSHQHKS

>sp|Q9NUQ8|ABCF3\_HUMAN ATP-binding cassette sub-family F member 3 OS=Homo sapiens GN=ABCF3  
PE=1 SV=2

MATCAEILRSEFPEIDGQVFDYVTGVLHSGSADFESVDDLVEAVGELLQEVSGDSKDDAG  
IRAVCQRMYNTRLRLAEPQSQGNSQVLLDAPIQLSKITENYDCGTKLPGLLKREQSSTVNA  
KKLEKAEARLKAKQEKREKDTLKTSNPLVLEEASASQAGSRKESRLESSGKNKSYDVRI  
ENFDVSFGDRVLLAGADVNLAWGRRYGLVGRNGLGKTTLLKMLATRSRVPAHISLLHVE  
QEVAGDDTPALQSVLESDSVREDLLRRERELTAQIAAGRAEGSEAAELAEIYAKLEEIEA  
DKAPARASVILAGLGFTPKMQQPTREFSGGWRMLALARALFARPDLLLLDEPTNMLDV  
RAILWLENYLQTPSTILVVSHDRNFLNAIATDIIHLHSQRLDGYRGDFETFIKSKQERL  
LNQQREYEAQQQYRQHIQVFIDRFYNNANRASQVQSKLKMLEKLPVKPDKESEVVMKF  
PDGFEKFSPPILQLDEVDFYDPKHVIFSRLSVSADLESRICVVGENGAGKSTMLKLLG  
DLAPVRGIRHAHRNLKIGYFSQHHVEQLDLNVSARELLARKFPGRPEEEYRHLGRYGIS  
GELAMRPLASLGGQKSRVAFAMTMCNPFYILDEPTNHLDMETIEALGRALNNFRGGV  
ILVSHDERFIRLVCRELWVCEGGGVTRVEGGFDQYRALLQEQRREGFL

>sp|P45844|ABCG1\_HUMAN ATP-binding cassette sub-family G member 1 OS=Homo sapiens GN=ABCG1  
PE=1 SV=3

MACLMAAFSVGTAMNASSYSAEMTEPKSVCVSVDEVVSSNMEATETDLLNGHLKKVDNNL  
TEAQRFSLLPRRAVNIEFRDLSYSVPEGPWWRRKKGYKTLLKGISGKFNSELVAIMGPS  
GAGKSTLMNLAGYRETGMKGAVLINGLPRDLRCFRKVSICYIMQDDMLLPHLTVQEAMMV  
SAHLKLQEKDEGRREVMKEILTALGLLSCANTRTGSLGGQKRKLAIALELVNPPVMFF  
DEPTSGLDSASCFQVVSMLKGLAQGGRSIICTIHQPSAKLFELFDQLYVLSQGCQVYRGK  
VCNLVPYLRDLGLNCPTYHNPADFVMEVASGEYGDQNSRLVRVREGMCDSDHKRDLGGD  
AEVNPFLWHRPSEEVKQTKRLKGLRKDSSSMGCHSFSASCLTQFCILFKRTFLSIMRDS  
VLTHLRITSHIGILLIGLLYLIGNEAKKVLNSNGFLFFSMLFLMFAALMPTVLTFFLE  
MGVFLREHLNYWYSLKAYYLAKTMADVPFQIMFPVAYCSIVYWMTSQPSDAVRFVLFAL  
GTMTSLVAQSLGLLIGAASLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYIS  
YVRYGFEGVILSIYGLDREDLHCDIDETCHFQKSEAILRELDVENAKLYLDFIVLGIFFI  
SLRLIAYFVRLRYKIRAER

>sp|Q9H222|ABCG5\_HUMAN ATP-binding cassette sub-family G member 5 OS=Homo sapiens GN=ABCG5  
PE=1 SV=1

MGDLSSLTPGSGMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWWITSC  
RQQWTRQILKDVSLYVESGQIMCILGSSSGSKTTLLDAMSGRLGRAGTFLGEVYVNGRAL  
RREQFQDCFSYVLQSDTLLSSLTVRETLHYTALLAIRRGNPGSFQKKVEAVMAELSLSHV  
ADRLIGNYSLGGISTGERRRVSIAAQLQDPKVMLFDEPTTGLDCMTANQIVVLLVELAR  
RNRIVVLTIHQPRSELFQLFDKIAILSFGELIFCGTPAEMLDFNDCGYPCPEHSNPFDF  
YMDLTSVDTQSKEREIETSKRVQMIESAYKKSACHKTLKNIERMKHLKTLPMVPFKTKD  
SPGVFSKLGVLRRVTRNLVRNKLAVITRLLQNLIMGLFLLFFVLVRVSNVLKGAIQDRV  
GLLYQFVGATPYTGMNAVNLFPVLRVSDQESQDGLYQKQWMLAYALHVLFPFSVATM  
IFSSVCYWTGLHPEVARFGYFSAALLAPHLIGEFLLVLLGIVQNPINVSVALLSIA  
GVLVSGFLRNIQEMPIPKFIIISYFTFQKYCSEILVNEFYGLNFTCGSSNSVSTTNPMC  
AFTQGIQFIEKTCPGATSRFTMNFLILYSFIPALVILGIVVFKIRDHLISR

>sp|Q8N2K0|ABD12\_HUMAN Monoacylglycerol lipase ABHD12 OS=Homo sapiens GN=ABHD12 PE=1 SV=2



MRKRTEPVALEHERCAAAGSSSSGSAAAALDADCRLKQNLRLTGPAAAEPRCAADAGMKR  
ALGRRKGVLRLRKILFCVLGLYIAIPFLIKLCPGIQAKLIFLNFRVPYFIDLKKPQDQ  
GLNHTCNYYLQPEEDVTIGVWHTVPAVWWKNAQKQDMWYEDALASSHPILYLHGNAGT  
RGGDHRVELYKVLSSLYGHVVTFDYRGWGDVSGTPSERGMTYDALHVFWDIKARSGDNPV  
YIWGHS�GTGVATNLVRRLCERETPPDALILESPFTNIREEAKSHPFVYRYFPGFDWF  
FLDPITSSGIKFANDENVKHISCPILLHAEDDPVVPFQLGRKLYSIAAPARSFRDFKVQ  
FVPFHSDLGYRHKYIYKSPELPRILREFLGKSEPEHQH

>sp|Q969K4|ABTB1\_HUMAN Ankyrin repeat and BTB/POZ domain-containing protein 1 OS=Homo sapiens GN=ABTB1 PE=1 SV=1

MDTSDLFASCRKGDVGRVRYLLEQRDVEVNVRDKWDSTPLYACLCGHEELVLYLLANGA  
RCEANTFDGERCLYGALSDPIRRALRDYKQVTASCRRDYDDFLQRLLEQGIHSDVVFV  
VHGKPFVRVHRCVLGARSAYFANMLDTKWGKSVVVLRHPLINPVAFGALLQYLYTGRLDI  
GVEHVSDCERLAKQCQLWDLSDLEAKCEKVSEFVASKPGTCVKVLTIEPPPADPRLRED  
MALLADCALPPELRGDLWELPFPCPDGFNSCPDICFRVAGCSFLCHKAFFCGRSDYFRAL  
LDDHFRESEEPATSGGPPAVTLHGISPVDVTHVLYMYSDHTELSPEAAYDVLVADMYL  
LPGLKRLCGRSLAQMLEDVTVGVWRVAKLFRLARLEDQCTEYMAKVEKLVEREDFVEA  
VKEEAAAARQETDSIPLVDDIRFHVASTVQTYSAIEEAQQRLRALEDLLVSIGLDC

>sp|Q15027|ACAP1\_HUMAN Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1 OS=Homo sapiens GN=ACAP1 PE=1 SV=1

MTVKLDFEELCKDSPRFRASIELVEAEVSELETRLEKLLKLTGGLLESGRHYLAASRAV  
VGICDLARLGPPEPMAECLEKFTVSLNHKLDSHAELLDATQHTLQQQIQTLVKEGLRGF  
REARRDFWRGAESLEAALTHNAEVPRRRAQEAEAGAALRTARAGYRGRALDYALQINVI  
EDKRKFDIMEFVLRLEAQATHFQQGHEELSRLSQYRKELGAQLHQLVNSAREKRDMEQ  
RHHVLLKQKELGGEEPEPSLREGPGGLVMEGHLFKRASNAFKTWSRRWFTIQSNQLVYQKK  
YKDPVTVVVDDLRLCTVKLCPDSERRFCFEVVSTSKSCLLQADSERLLQLWVSAVQSSIA  
SAFSQARLDDSPRPGQGSGHLAIGSAATLGSAGMARGREPGGVGHVVAQVQSVGDNAQC  
CDCREPAPEWASINLGVTLCIQCSGIHRS�GVHFSKVRSLTDSWEPELVKLMCELGNI  
INQIYEAREVAMAVKKPGPSCSRQEKEAWIHAKYVEKKFLTKLPEIRGRRGGRPRGQP  
PVPPKPSIRPRGSLRSKPEPPSEDLGSLHPGALLFRASGHPPSLPTMADALAHGADVNW  
VNGGQDNATPLIQATAANSLACEFLLQNGANVNQADSAGRGPLHHATILGHTGLACFL  
KRGADLGARDEGRDPLTIAMETANADIVTLLRLAKMREAEAAQGGAGDETYLDIFRDFS  
LMASDDPEKLSRRSHDLHTL

>sp|O00400|ACATN\_HUMAN Acetyl-coenzyme A transporter 1 OS=Homo sapiens GN=SLC33A1 PE=1 SV=1

MSPTISHKDSSRQRRPGNFHSLDMKSGPLPPGGWDDSHLDSAGREGDREALLGDGTGD  
FLKAPQSFRAELSSILLFLYVLQGIPLGLAGSIPLILQSKNVSYTDQAFFSFVFWPFS  
LKLLWAPLVDAVYVKNFGRRKSWLVPTQYIILGLFMIYLSQVDRLLGNTDDRTPDVIALT  
VAFFLFEFLAATQDIAVDGWALTMSRENVGYASTCNSVGQTAGYFLGNVFLALESADF  
CNKYLRFPQPRGIVTSLDFLFFWGTVFLITTTLVALLKKENEVSVVKEETQGITDITYKL  
LFAIIKMPAVLTFCLLILTAKIGFSAADAVTGLKLVEEGVPKEHLALLAVPMVPLQIILP  
LIISKYTAGPQLNTFYKAMPYRLLLGLEYALLVWWTPKVEHQGGFPIYYYIVVLLSYAL  
HQVTVYSMYVSIMAFNAKVSPLIGGTYMTLLNTVSNLGGNWPSTVALWLDPLTVKECV  
GASNQNCRTPDARELCKKLGSCVTALDGYVYESIICVFIFGWWFFLGPKFKKLQDEGS  
SSWKCKRNN

>sp|P30486|1B48\_HUMAN HLA class I histocompatibility antigen, B-48 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGYVDDTQFVRF  
DSDAASPREEPAPWIEQEGPEYWDRETQISKNTNTQTYRESLRNLRGYNQSEAGSHTLQ  
SMYGCDVGPDRLLRGHNQYAYDGKDIALNEDLRSWTAADTAAQISQRKLEAARVAEQL  
RAYLEGECVEWLRRLYLENGKDKLERADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWTAVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGSVDVSL  
TA

>sp|P30488|1B50\_HUMAN HLA class I histocompatibility antigen, B-50 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLSAALALTETWAGSHSMRYFHTAMSRPGRGEPRFITVGYVDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWDRETQISKNTNTQTYRESLRNLRGYNQSEAGSHTWQ  
RMYGCDLGPDRLLRGYNQLAYDGKDIALNEDLSSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGSVDVSL  
TA

>sp|P30490|1B52\_HUMAN HLA class I histocompatibility antigen, B-52 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWDRETQISKNTNTQTYRENLRALRYNQSEAGSHTWQ  
TMYGCDVGPDRLLRGHNQYAYDGKDIALNEDLSSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGLCVEWLRRLHLENGKETLQRADPPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGSVDVSL  
TA

>sp|Q13362|2A5G\_HUMAN Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform OS=Homo sapiens GN=PPP2R5C PE=1 SV=3

MLTCNKAGSRMVDAANSNGPFQPVVLLHIRDVPPADQEKLFIQKLRQCCVLFDFVSDPL  
SDLKWKEVKRAALSEMVEYITHNRNVITEPIYPEVVMHFAVNMFRTPPSSNPTGAEFDP  
EEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQLELFDSEDPRERD  
FLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFALPLK  
EEHKIFLLKVLLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTEPVMALLKYWPKTHSPK  
EVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYWNEYIMSLIS  
DNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKA EKLEK  
LKMKEEEAWVKIENLAKANPQYTVYSQASTMSIPVAMETDGPLFEDVQMLRKT VKDEAH  
QAQKDPKKDRPLARRKSELPQDPHTKKALEAH CRADELASQDGR

>sp|P30154|2AAB\_HUMAN Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform OS=Homo sapiens GN=PPP2R1B PE=1 SV=3

MAGASELGTGPGAAGGDGDSLYPIAVLIDELRNEDVQLRLNSIKKLSIALALGVERTR  
SELLPFLTDTIYDEDEVLLALAEQLGNFTGLVGGPDFAHCLLPLENLATVEETVVRDKA  
VESLRQISQEHTPVALEYFVPLVKRLASGDWFTSRTSACGLFSVCYPRASNAVKAEIRQ  
QFRSLCSDDTPMVRRAAASKLGEFAKVELEDSVKSEIVPLFTSLASDEQDSVRLLAVEAC

VSIAQLLSQDDLETLMPTLRQAAEDKSWRVRYMVADRFSELQKAMGPKITLNDLIPAFQ  
NLLKDCEAEVRAAAAHVKELGENLP IEDRETIIMNQILPYIKELVSDTNQHVKSALASV  
IMGLSTILGKENTIEHLLPLFLAQLKDECPDVRNIIISNLDCVNEVIGIRQLSQSLLPAI  
VELAEDAKWRVRLAIEYMPLLAGQLGVEFFDEKLNSLCMAWLVDHVYAIREAATNNLMK  
LVQKFGTEWAQNTIVPKVLVMANDPNYLHRMTTLFCINALSEACGQEITTKQMLPIVLKM  
AGDQVANVRFNVAKSLQKIGPILDTNALQGEVKPVLQKLGQDEDMDVKYFAQEASVLA  
A

>sp|Q9Y2T4|2ABG\_HUMAN Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit  
B gamma isoform OS=Homo sapiens GN=PPP2R2C PE=1 SV=4

MGEDTDTRKINHSFLRDHSYVTEADIISTVEFNHTGELLATGDKGGRVIFQREPEKNA  
PHSQGEYDVYSTFQSHEPEFDYLSLEIEEKINKIKWLPQQNAHSLSTNDKTIKLWKI  
TERDKRPEGYNLKDEEGKLDLSTVTSLQVPVLKPMDLMEVSPRRIFANGHTYHINSIS  
VNSDCETYMSADDLRINLWHLAITDRSFNIVDIKPANMEDLTEVITASEFHPHCNLFVY  
SSSKGSLRLCDMRAAALCDKHSKLFEEPEDPSNRSFFSEIISVSDVKFSHSGRYMLTRD  
YLTVKVWDLNMEARPIETYQVHDYLRSKLSLYENDCIFDKFECAWNGSDSVIMTGAYNN  
FFRMFDRNTRKRDVTLEASRESSKPRAVLKPRRVCVGGKRRRDDISVDSLDFTKILHTAW  
HPAENIIAIAATNNLYIFQDKVNSDMH

>sp|P13760|2B14\_HUMAN HLA class II histocompatibility antigen, DRB1-4 beta chain OS=Homo  
sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLKFPGGSCMAALTVTLMLVSSPLALAGDTRPRFLEQVKHECHFFNGTERVRFLDRYF  
YHQEEYVRFDSDVGEYRAVTELGRPDAEYWNSQKDLLEQKRAAVDTYCRHNYGVGESFTV  
QRRVYPEVTVYPAKTQPLQHHNLLVCSVNGFYPGSIEVRWFRNGQEEKTGVVSTGLIQNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSLTSPLTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|Q30134|2B18\_HUMAN HLA class II histocompatibility antigen, DRB1-8 beta chain OS=Homo  
sapiens GN=HLA-DRB1 PE=1 SV=2

MVCLRLPGGSCMAVLTVTMLVSSPLALAGDTRPRFLEYSTGECYFFNGTERVRFLDRYF  
YNQEEYVRFDSDVGEYRAVTELGRPSAEYWNSQKDFLEDRRALVDYCRHNYGVGESFTV  
QRRVHPKVTVYPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKTGVVSTGLIHNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWSARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|Q5Y7A7|2B1D\_HUMAN HLA class II histocompatibility antigen, DRB1-13 beta chain OS=Homo  
sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLRLPGGSCMAVLTVTMLVSSPLALAGDTRPRFLEYSTSECHFFNGTERVRFLDRYF  
HNQEEYVRFDSDVGEFRAVTELGRPDAEYWNSQKDILEDERAADVTCRHNHYGVVESFTV  
QRRVHPKVTVYPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKTGVVSTGLIHNG  
DWTFTQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPRGFLS

>sp|Q8IZ83|A16A1\_HUMAN Aldehyde dehydrogenase family 16 member A1 OS=Homo sapiens  
GN=ALDH16A1 PE=1 SV=2

MAATRAGPRAREIFTSLEYGPVPESHACALAWLDTQDRCLGHVNGKWLKPEHRNSVPCQ  
DPITGENLASCLQAQAEVAAAVEAARMAFKGWSAHPGVVRAQHLTRLAEVIQKHQRLLW  
TLESLVTGRAVREVRDGDVLAQQLLHYHAIQASTQEEALAGWEPMGVIGLILPPTFSFL  
EMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ

PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWS  
DRGPGGLRLLIQESVWDEAMRRLQERMGRRLRSGRLDGAVDMGARGAAACDLVQRFVREA  
QSQGAQVFQAGDVPSEPFYPPTLVSNLPPASPCAQVEVPWPVVVASPFRTAKEALLVAN  
GTPRGGSASVWSERLGQALELGYGLQVGTWVINAHGLRDPVPTGGCKESGCSWHGGPDG  
LYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG  
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALE  
RRKSTLASRLERQGAELKAAEALEVELSARRLRAWGARVQAQGH TLQVAGLRGPVLRRLREP  
LGVLA VVCPDEWPLLA FVSLLAPALAYGNTVVMVPSAACPLLALEVCQDMATVFPAGLAN  
VVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPVWASRGCPRAWDQEAE  
GAGPELGLRVARTKALWLPMD

>sp|Q8NAA4|A16L2\_HUMAN Autophagy-related protein 16-2 OS=Homo sapiens GN=ATG16L2 PE=1 SV=2

MAGPGVPGAPAARWKRHIVRQLRLRDRTQKALFLELVPAYNHLLEKAELLDKFSKKLQPE  
PNSVTPPTHQGPWESELDSDQVPSLVALRVKWQEEEEGLRLVCGEMAYQVVEKGAALGT  
LESELQQRQSRLAAL EARVAQLREARAQQAQVEEWRAQNAVQRAAYEALRAHVGLREAA  
LRLQEEARDLLERLVQRKARAAAERNLRNERRERAKQARVSQELKKA AKRTVSISEGPD  
TLGDGMRERRETALAPEPEPELEKEACEKWKRPFPSASATSLTSHCVDVVKGLLDFKKR  
RGHSIGGAPEQRYQIIPVCVAARLPTRAQDVLD AHLSEVNAVRFGPNSSLLATGGADRLI  
HLWNVVGSRL EANTLEGAGGSITSVDFDPSGYQVLAATYNQAAQLWKVG EAQSKETLSG  
HKDKVTA AKFKLTRHQAVTGSRDRTVKEWDLGRAYCSRTINVL SYCNDVVCGDHI IISGH  
NDQKIRFWDSRGPHCTQVIPVQGRVTSLSLSDQLHLLSCSRDNTLKVIDL RVSNIRQVF  
RADGFKCGSDWT KAVFSPDRSYALAGSCDGALYIWDVDTGKLESRLQGPHCAAVNAVAWC  
YSGSHMVSVDQGRKVVLWQ

>sp|Q96IX9|A26L1\_HUMAN Putative ankyrin repeat domain-containing protein 26-like 1  
OS=Homo sapiens GN=ANKRD36BP1 PE=5 SV=1

MGTRTLQFEISDSHEKEEDLLHKNHLMQDEIARLRLEIHTIKNQILEKKYLDIEI IKRK  
HEDLQKALKQNGEKSTKTIAHYSGQLTALTDENTMLRSKLEKEKQSRQRLTKWNHTIVD

>sp|P08697|A2AP\_HUMAN Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

MALLWGLLVLSWSCLQGPCSVFSPVSAMEPLGRQLTSGPNQEVSPLTLLKLG NQEPGGQ  
TALKSPPGVCSRDPTEQTHRLARAMMAFTADLFSLVAQTSTCPNLILSPLSVALALSHL  
ALGAQNHTLQRLQQLHAGSGPCPLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLE  
QSEQLFGAKPVS LTGKQEDDLANINQWVKEATEGKIQEFLSGLPEDTVLLLLNAIHFQGF  
WRNKFDPSLTQRDSFHLDEQFTVPVEMMQARTYPLRWFLLEQPEIQVAHF PFKNMSFVV  
LVPTHFEWNVSQVLANLSWDTLHPPLVWERPTKVR LPKLYLKHQMDLVATLSQLGLQELF  
QAPDLRGISEQSLV VSGVQHGSTLELSEVGVEAAAATSIAMSRMSLSSFSVNRPF LFFIF  
EDTTGLPLFVGSVRNP NPSAPRELKEQQDSPGNKDFLQSLKGFPRGDKLFGPDLKL VPPM  
EEDYPQFGSPK

>sp|P01023|A2MG\_HUMAN Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

MGKNKLLHPSLVLLLLVLLPTDASVSGKPQYMLVPSLLHTETTEKGC VLLSYLNETVTV  
SASLESVRGNRSLFTDL EAVDVLHCVAFV PKSSSNEEVMFLTVQVKGPTQEFKKRTTV  
MVKNEDSLVFVQTDKSIYKPGQTVKFRVVSMDENFHPLNELIPLVYIQDPKGNRI AQWQS  
FQLEGG LKQFSFPLSSEPFQGSYKVVVQKSGGRTEHPFTVEEFVLPKFEVQVTVPKIIT  
ILEEEMNVSVCGLYTYGKPVPGHVTVSI CRKYS DASDCHGEDSQA FCEKFSGQLNSH GCF  
YQQVKTKVFQLKRKEYEMKLHTEAQIQEEGTVVELTGRQSSEITRTITKLSFVKVD SHFR

QGIPFFGQVRLVDGKGVPIPNKVIFIRGNEANYYSNATTDEHGLVQFSINTTNVMGTSLT  
VRVNYKDRSPCYGYQWVSEEHEEAHHTAYLVFSPSKSFVHLEPMSHELPCGHTQTVQAHY  
ILNGGTLLGLKKLSFYLLIMAKGGIVRTGTHGLLVKQEDMKGHFSISIPVKSDIAPVARL  
LIYAVLPTGDVIGDSAKYDVENCLANKVDLSFSPSQSLPASHAHLRVTAAPQSVCALRAV  
DQSVLLMKPDAELSASSVYNLLPEKDLTGFPGLNDQDNEDCINRHNVIYINGITYTPVSS  
TNEKDMYSFLEDMLKAFTNSKIRKPKMCPQLQQYEMHGPEGLRVGFYESDVMGRGHARL  
VHVEEPHTETVRKYFPETWIWDLVVVNSAGVAEVGVTVPDTITEWKAGAFCLSEDAGLGI  
SSTASLRAFQPPFVELTMPYSVIRGEAFTLKATVLNLYPKCIRVSVQLEASPAFLAVPVE  
KEQAPHCI CANGRQTVSWAVTPKSLGNVNFVSAEALSEQELCGTEVPSVPEHGRKDTVI  
KPLLVEPEGLEKETTFNSLLCPSGGEVSEELSLKLPPNVVEESARASVSVLGDILGSAMQ  
NTQNLLQMPYGCGEQNMVLFAPNIYVLDYLNQTLTPEIKSKAIGYLNLTGYQRQLNYKH  
YDGSYSTFGERYGRNQNTWLTAFVLKTFQAQARAYIFIDEAHITQALIWL SQRQKDNCGF  
RSSGSLNNAIKGGVEDEVTL SAYITIALLEIPLTVTHPVVRNALFCLESAWKTAQEGDH  
GSHVYTKALLAYAFALAGNQDKRKEVLKSLNEEAVKKDNSVHWERPQKPKAPVGHFYEPQ  
APSAEEMTSYVLLAYLTAQPAPTSDELTSATNIVKWITKQNAQGGFSSTQDTVVALHA  
LSKYGAATFTRTGKAAQVTIQSSGTFSSKFQVDNNRLLLQQVSLPELPGEYSMKVTGEG  
CVYLQTSCLKYNILPEKEEFPFALGVQTLPTCDEPKAHTSFQISLSVSYTGSRASNMAI  
VDVKMVS GFIPLKPTVKMLERSNHVSRTVSSNHVLIYLDKVSNTLSLFFTVLQDVPVR  
DLKPAIVKVYDYYETDEFAIAEYNAPCSKDLGNA

>sp|A8K2U0|A2ML1\_HUMAN Alpha-2-macroglobulin-like protein 1 OS=Homo sapiens GN=A2ML1 PE=1  
SV=3

MWAQLLLGMLALSPAIAEELPNYLVTLPARLNFPSVQKVCLDLSPGYSDVKFTVTLETKD  
KTQKLEYSGLKKRHLHCISFLVPPPAGGTEEVATIRVSGVGNNISFEEKKKVLIQRQGN  
GTFVQTDKPLYTPGQQVYFRIVTMDSNFVPVNDKYSMVVELQDPNSNRI AQWLEVVPQGI  
VDLSFQLAPEAMLGTYTVAVAEGKTFGTFSVEEYVLPKFKVEVVEPKELSTVQESFLVKI  
CCRYTYGKPM LGAVQVSVCQKANTYWYREVEREQLPDKCRNL SGQTDKTGCFSAPVDMAT  
FDLIGYAYSHQINIVATVVEEGTGVEANATQNIYISPQMGSMTFEDTSNFYHPNFPFSGK  
IRVRGHDDSF LKNHLVFLVIYGTNGTFNQTLVTDNGLAPFTLETSGWNGTDVSLGKFKQ  
MEDLVYNPEQVPRYQ NAYLHLRPFYSTTRSFLGIHRLNGPLKCGQPQEVLDVYIDPAD  
ASPDQEISFSYYLIGKGS LVMGQKHLNSKKKGLKASFSLSLTFTSRLAPDPSLVIYAIF  
PSGGVVADKIQFSVEMCFDNQVSLGFSQQLPGALEVELQLQAAPGSLCALRAVDESVLL  
LRPDRELSNRSVYGMFPFWYGHYPYQVAEYDQCPVSGPWDFPQPLIDPMPQGHSSQRSII  
WRPSFSEGTDLFSFFRDVGLKILSNAKIKKPVDCHRSPEYSTAMGAGGGHPEAFESSTP  
LHQAEDSQVRQYFPETWLWDLFP IGN SGKEAVHVTVPDAITEWKAMSFCTSSRGFGLSP  
TVGLTAFKPPFVDLTL PYSVVRGESFRLTATIFNYLKDCIRVQTDLAKSHEYQLESWADS  
QTSSCLCADDAKTHHWNITAVKLGHINFTISTKILDSNEPCGGQKGFVPQKGRSDTLIKP  
VLVKPEGVLVEKTHSLLCPKGKVASVSLLELPVDIVPDSTKAYVTVLGDIMGTALQNL  
DGLVQMPSGCGEQNMVLFAPIIYVLQYLEKAGLLTEEIRSAVGFLEIGYQKELMYKHSN  
GSYSAFGERDGNGNTWLTAFVTKCFGQAQKFIFIDPKNIQDALKWMAGNQLPSGCYANVG  
NLLHTAMKGGVDDEVSLTAYVTAALLEMGKD VDDPMVSQGLRCLKNSATSTTNLYTQALL  
AYIFSLAGEMDIRNILLKQLDQQAII SGESIYWSQKPTPSSNASPWSEPAAVDVELTAYA  
LLAQLTKPSLTQKEIAKATSIVAWLAKQHNA YGGFSSTQDTVVALQALAKYATTAYMPSE  
EINLVKSTENFQRTFNISVNRLVFQQDTLPNVPGMYTLEASGQGCYVYQTVLRYNILP  
PTNMKTFSLSVEIGKARCEQTPSRSLTLTIHTSYVGSRSSSNMAIVEVKMLSGFSPMEG

TNQLLLQQPLVKKVEFGTDTLNIYLDELIKNTQTYTFTISQSVLVTNLKPATIKVYDYLL  
PDEQATIQYSDPCE

>sp|Q2M2I8|AAK1\_HUMAN AP2-associated protein kinase 1 OS=Homo sapiens GN=AAK1 PE=1 SV=3

MKKFFDSRREQGSGSLGSGSSGGGSGTSLGSGYIGRVFGIGRQQVTDEVLAEGGFAIV  
FLVRTSNGMKCALKRMFVNNEHDLQVCKREIQIMRDLSGHKNIVGYIDSSINNVS SGD VW  
EVLILMDFCRGGQVVNLMNQRLQTGFTENEVLQIFCDTCEAVARLHQCKTPIIHRDLKVE  
NILLHDRGHYVLCDFGSATNKFQNPQTGEGVNAVEDEIKKYTTLSYRAPEMVNLYSGKIIT  
TKADIWALGCLLYKLCYFTLPFGESQVAICDGNFTIPDNSRYSQDMHCLIRYMLEPD PDK  
RPDIYQVSYSFSLKKKECPIPNVQNSPIPAKLPEPVKASEAAAKKTQPKARLTDPITPT  
ETSIAPRQRPKAGQTQPNPGILPIQPALTPRKRATVQPPPQAAGSSNQPGLLASVPQPKP  
QAPPSQPLPQTQAKQPAPPTPQQTPSTQAQGLPAQAQATPQHQQQLFLKQQQQQQQPPP  
AQQQPAGTFYQQQQAQTQQFQAVHPATQKPAIAQFPVVSQGSQQQLMQNFYQQQQQQQQ  
QQQQQQLATALHQQQLMTQQAALQQKPTMAAGQQPQPQAAAPQPAPAQEPAIQAPVRQQ  
PKVQTTPPPAVQGGKVGSLTPPSSPKTQRAGHRRILSDVTHSAVFGVPASKSTQLLQAAA  
AEASLNKSKSATTTPSGSPRTSQNVYNPSEGSTWNPFDNFSKLTAEELLNKDFAKLG  
EGKHPEKLGGSAESLIPGFQSTQGD AFATTSFSAGTAEKRKGGQTVDSGLPLLSVSDPFI  
PLQVPDAPEKLI EGLKSPDTSLLLPDLLPMTDPFGSTSDAVIEKADVAVESLIPGLEPPV  
PQRLPSQTESVTSNRDLSLTGEDSLLDCSLLSNPTTDLLEEFAPTAISAPVHKAEDSNL  
ISGFDVPEGSDKVAEDEFDPIPVLITKNPQGGHSRNSSGSESSLPNLARSLLLVDQLID  
L

>sp|043741|AAKB2\_HUMAN 5'-AMP-activated protein kinase subunit beta-2 OS=Homo sapiens  
GN=PRKAB2 PE=1 SV=1

MGNTTSDRVSGERHGAKAARSEGAGGHAPGKEHKIMVGSTDDPSVFSLPD SKLPGDKEFV  
SWQQDLED SVKPTQQARPTVIRWSEGGKEVFISGSFNNWSTKIPLIKSHNDFVAILDLPE  
GEHQYKFFVDGQVWHD PSEPVTSQLGTINNLIHVKKSDFEVFDALKLDSMESSETSCRD  
LSSSPGPYPGQEMYAFRSEERFKSPPI LPPHLLQVILNKDTNISCDPALLPEPNHVMLNH  
LYALSIKDSVMVLSATHRYKKKYVTTLTYKPI

>sp|P54619|AAKG1\_HUMAN 5'-AMP-activated protein kinase subunit gamma-1 OS=Homo sapiens  
GN=PRKAG1 PE=1 SV=1

METVISSDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKL VVFDTS LQVKKA  
FFALVTNGVRAAPLWDSKKQSFVGM LTITDFINILHRYYSALVQIYELEEHKIETWREV  
YLQDSFKPLVCISPNASLFD AVSSLIRNKIHRLPVIDPESGNTLYILTHKRILKFLKFI  
TEFPKPEFMKSLEELQIGTYANIAMVRTTTPVYVALGIFVQHRVSALPVVDEKGRVVDI  
YSKFDVINLAAEKTNNLDVSVTKALQHRSHYFEGVLKCYLHETLETIINRLVEAEVHRL  
VVVDENDVVKGIVSLSDILQALVLTGGEKKP

>sp|Q96GS6|AB17A\_HUMAN Protein ABHD17A OS=Homo sapiens GN=ABHD17A PE=1 SV=1

MNGLSLSELCCLPCCPPCGRIAAKLAFLPPEATYSLVPEPEPGPGGAGAAPLGTLRASS  
GAPGRWKLHLTERADFQYSQRELDTIEVFPTKSARGNRVSCMYVRCVPGARYTVLFSHG  
AVDLGQMSSFYIGLSRLHCNIFSYDYSGYGASSGRPSESNLYADIDAAWQALRTRYGIS  
PDSIIILYGQSIGTVPTVDLASRYECAA VVLSPLTSGMRVAFPDTKKTYCFDAFPNIEKV  
SKITSPVLI IHGTEDEVIDFSHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRF  
ISQELPSQRA

>sp|Q5VST6|AB17B\_HUMAN Protein ABHD17B OS=Homo sapiens GN=ABHD17B PE=1 SV=1

MNNLSFSELCCLPCCPPCGKIASKLAFLLPDPTTYTLMCDESGSRWTLHL SERADWQYSS

REKDAIECFMTRTSKGNRIACMFVRCSPNAKYTLFSGHNAVDLGQMSSFYIGLGSRINC  
NIFSVDYSGYGASSGKPTEKNLYADIEAAWLALRTRYGIRPENVI IYGQSIGTVPSVDLA  
ARYESAIVILHSPLTSGMRVAFPDTKKTYCFDAFPNIDKISKITSPVLIHGTEDVIDF  
SHGLALFERCQRPVEPLWVEGAGHNDVELYGQYLERLKQFVSQELVNL

>sp|Q9NSE7|ABCCD\_HUMAN Putative ATP-binding cassette sub-family C member 13 OS=Homo sapiens GN=ABCC13 PE=2 SV=2

MLSSTQNAGGSYQVRGALDTQKCSPEKSASFFSKVTYSWFSRVITLGYSRPLEREDLFE  
LKESDSFCTACPIFEKQWRKEVLNRQERQKVKVSCYKEAHIKKPSLLYALWNTFKSILIQ  
VALFKVFADILSFTSPLIMKQIIIFCEHSSDFGWNGYGYAVALLVVVFLQTLILQQYQRF  
NMLTSAKVKTAVNGLIYKKALLSNVSRQKFSTGEIINLMSATHGLDSKPQSPLVCPFSN  
PNGRISPLARAGSSSVSRGGSPVCYTNKCFSCN

>sp|Q8NFV4|ABHDB\_HUMAN Protein ABHD11 OS=Homo sapiens GN=ABHD11 PE=1 SV=1

MRAGQQLASMLRWTRAWRLPREGLGPHGPSFARVPVAPSSSSGGRGGAEPRLPLSYRLL  
DGEAALPAVVFLHGLFGSKTNFNSIAKILAQQTGRRLTVDARNHGDSPHSPDMSYEIMS  
QDLQDLLPQLGLVPCVVVGHSMGGKTAMLLALQRPELVERLIAVDISPVESTGVSHFATY  
VAAMRAINIADELPRSRARKLADEQLSSVIQDMAVRQHLLTNLVEVDGRFVWRVNDALT  
QHLDKILAFPQRQESYLGP TLFLGGNSQFVHPSHHPEIMRLFPRMQMTPVNAGHWIHA  
DRPQDFIAAIRGFLV

>sp|Q96IU4|ABHEB\_HUMAN Protein ABHD14B OS=Homo sapiens GN=ABHD14B PE=1 SV=1

MAASVEQREGTIQVQGQALFFREALPGSGQARFSVLLHGI RFSSETWQNLGTLHRLAQA  
GYRAVAIDLPLGLHSKEAAAPAPIGELAPGSFLAAVDALELGPVVISPSLSGMYSLPF  
LTAPGSQLPGFVPVAPICTDKINAANYASVKTPALIVYGDQDPMGQTSFEHLKQLPNHRV  
LIMKGAGHPCYLDKPEEWH TGLLDFLQGLQ

>sp|O95870|ABHGA\_HUMAN Protein ABHD16A OS=Homo sapiens GN=ABHD16A PE=1 SV=3

MAKLLSCVLGPRLYKIYRERDSE RAPASVPETPTAVTAPHSSWDITYYQPRALEKHADSI  
LALASVFWISISYSSPFAFFYLRYKGYLSLSKVVPFSHYAGTLLLLLAGVACLRGIGRWT  
NPQYRQFITILEATHRNQSSSENKRQLANYNDFRSWPVDFHWEPPSSRKESRGGPSRRGV  
ALLRPEPLHRGTADTLNVRVKLPCQITSYLVAHTLGRRMLYPGSVYLLQKALMPVLLQG  
QARLVEECNGRRAKLLACDGNEIDTMFVDRRGTAEPQGQKLVICCEGNAGFYEVGCVSTP  
LEAGYSVLGWNHPGFAGSTGVPPFQNEANAMDVVVQFAIHRLGFQPDII IYAWSIGGFT  
ATWAAMSYPDVSAMILDASFDDLVPALAKVMPDSWRGLVTRTVRQHLNLNNAEQLCRYQG  
PVLLIRRTKDEIITTTVPEDIMSNRGNDLLKLLQHRYPRVMAEEGLRVVRQWLEASSQL  
EEASIYSRWEVEEDWCLSVLSYQAEHGPDFPWSVGEDMSADGRRQLALFLARKHLHNFE  
ATHCTPLPAQNFQMPWHL

>sp|Q9NYB9|ABI2\_HUMAN Ab1 interactor 2 OS=Homo sapiens GN=ABI2 PE=1 SV=1

MAELQMLLEEEIPGGRRALFDSYTNLERVADYCENNYIQSADKQRALEETKAYTTQSLAS  
VAYLINTLANNVLQMLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILT TNKNTSR  
THKIIAPANLERPVRYIRKPIDYITLDDIGHGVKWLRLFKVSTQNMKMGGLPRTTPPTQK  
PPSPPMMSGKGTGRHSPYRTLEPVRPPVVPNDYVPSPTRNMAPSQQSPVRTASVNQRNRT  
YSSSGSSGSHPSRSSSRENSGSGSVGVP IAVPTSPSPSVFPAPAGSAGTPPLPATAS  
APAPLVPATVPSSTAPNAAAGGAPNLADGFTSPTPPVVSSTPPTGHPVQFYSMNRPASRH  
TPPTIGGSLPYRRPPSITSQTS LQNQMNGGPFYSQNPVSDTPPPPPVEEPVFDESPPPP  
PPPEDYEEEEAAVVEYSDPYAEEDPPWAPRSYLEKVVAIYDYTKDELSFQEGAI IYV  
IKKNDDGWYEGVMNGVTGLFPGNYVESIMHYSE

>sp|Q6H8Q1|ABLM2\_HUMAN Actin-binding LIM protein 2 OS=Homo sapiens GN=ABLM2 PE=1 SV=2

MSAVSQPQAAPSPLEKSPSTAILCNTCGNVCKGEVLRVQDKYFHIKCFVCKACGCDLAEG  
GFFVRQGEYICTLDYQRLYGTRCFSCDQFIEGEVVSALGKTYHPDCFVCAVCRLPFPFGD  
RVTNFGKECMCQKCSLPVSVGSSAHLSQLRSCGGCGTEIKNGQALVALDKHWHLGCFKC  
KSCGKLLNAEYISKDGLPYCEADYHAKFGIRCDSCKEYITGRVLEAGEKHYHPSCALCVR  
CGQMFAEGEEMYLQGSSIWHPACRQAARTEDRNKETRTSSESIISVPASSTSGSPSRVIY  
AKLGGEILDYRDLAALPKSKAIYDIDRPMISYSPYISHSAGDRQSYGEGDQDDRSYKQC  
RTSSPSTGSVSLGRYTPTSRSPQHYSRPGSESGRSTPSLSVLSDSKPPPSTYQQAPRHF  
HVPDTGVKDNIYRKPPIYRQHAARRSDGEDGSLDQDNRKSSWMLKGDADTRTNSPDL  
TQSLSHSSGTDRLDPLQRMAGDSFHSRFPYSKSDPLPGHGKNGLDQRNANLAPCGADPDAS  
WGMREYKIYPYDSLIVTNRIRVKLPKDVDRTRLERHLSPEEFQEVFGMSIEEFDRLALWK  
RNDLKKKALLF

>sp|Q8N0Z2|ABRA\_HUMAN Actin-binding Rho-activating protein OS=Homo sapiens GN=ABRA PE=2  
SV=1

MAPGEKESGEGPAKSALRKIRTATLVISLARGWQQWANENSIRQAQEP TGWLPGGTQDSP  
QAPKPITPPTSHQKAQSAPKSPRLPEGHGDGQSSEKAPEVSHIKKKEVSKTVVSKTYER  
GGDVSHLSHRYERDAGVLEPGQPENDIDRILHSHGSPTRRRKCANLVSELTGWRVMEQE  
EPTWRSDSVDTEDSGYGGEAEERPEQDGVQVAVVRIKRPLPSQVNRFTKLNCKAQQKYS  
PVGNLKGRWQQWADEHIQSQKLNPFSEFDYELAMSTRLHKGDEGYGRPKEGKTAKTAE  
RAEEHIYREMMDMCFICTMARHRRDGKIQVTFGDLFDYVRISDKVVGILMRARKHGLV  
DFEGEMLWQGRDDHVITLLK

>sp|P28330|ACADL\_HUMAN Long-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Homo  
sapiens GN=ACADL PE=1 SV=2

MAARLLRGLRVLGGHRAPRQLPAARCSHSGGEERLETSAKKLTDIGIRIRFISPEHDIF  
RKSVRKFFQEEVIPHHSEWEKAGEVSREVWEKAGKQGLLGVNIAEHLGGIGGDLYSAAIV  
WEEQAYSNCSGPGFSIHSGIVMSYITNHGSEEQIKHFIPQMTAGKCIGAIAMTEPGAGSD  
LQGIKTNAKKDGSWILNGSKVFISNGSLSDVIVVAVTNHEAPSPAHGISLFLVENG  
GMKGFIKGRKLHKMGLKAQDTAELFFEDIRLPASALLGEENKGFYYIMKELPQERLLIADVAI  
SASEFMFEETRNYVKQRKAFGKTVAHLQTVQHKLAELKTHICVTRAFVDNCLQLHEAKRL  
DSATACMAKYWASELQNSVAYDCVQLHGGWGYMWEYPIAKAYVDARVQPIYGGTNEIMKE  
LIAREIVFDK

>sp|P11310|ACADM\_HUMAN Medium-chain specific acyl-CoA dehydrogenase, mitochondrial  
OS=Homo sapiens GN=ACADM PE=1 SV=1

MAAGFGRCCRVLRSISRFWRSQHTKANRQREPGLGFSFEFTEQQKEFQATARKFAREEI  
IPVAAEYDKTGEYPVPLIRRAWELGLMNTHIPENCGGLGLGTFDACLISEELAYGCTGVQ  
TAIEGNSLGQMPIIIAGNDQKKKKYLGRMTEEPLMCAYCVTEPGAGSDVAGIKTKAEKKG  
DEYIINGQKMWITNGGKANWYFLLARSDPDPAKANKAFTG FIVEADTPGIQIGRKELNM  
GQRCSDTRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKTRPVVAAGAVGLAQRALDEAT  
KYALERKTFGKLLVEHQATISFMAEMAMKVELARMSYQRAAWEVDSGRRNTYYASIAKAF  
AGDIANQLATDAVQILGGNGFNTEYPVEKLMRDAKIYQIYEGTSQIQRLIVAREHIDKYK  
N

>sp|P16219|ACADS\_HUMAN Short-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Homo  
sapiens GN=ACADS PE=1 SV=1

MAAALLARASGPARRALCPRAWRLHTIYQSVELPETHQMLLQTCRDFAEKELFPIAAQV



DKEHLFPAAQVKKMGGGLLLAMDVPEELGGAGLDYLAIAIMEEISRGCASTGVIMSVNN  
SLYLGPILKFGSKEQKQAWVTPFTSGDKIGCFALSEPGNGSDAGAASTTARAEGDSWVLN  
GTKAWITNAWEASAAVVFASDRALQNKGISAFVPMPTPGLTLGKKEDKLGIRGSSTAN  
LIFEDCRIPKDSILGEPGMGFKIAMQTLDMGRIGIASQALGIAQTALDCAVNYAENRMAF  
GAPLTKLQVIQFKLADMALALESARLLTWRAAMLKDNKKPFIKEAAMAKLAASEAATAIS  
HQAIQILGGMGYVTEMPAERHYRDARITEIYEGTSEIQRLVIAGHLLRSYRS

>sp|P49748|ACADV\_HUMAN Very long-chain specific acyl-CoA dehydrogenase, mitochondrial  
OS=Homo sapiens GN=ACADVL PE=1 SV=1

MQAARMAASLGRQLRLGGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDAL  
TRKKPAKAESKSAFVGMFKGQLTTDQVFPYPSVLNEEQTFQLKELVEPVSRRFFEEVNDPA  
KNDALMVEETTQGLKELGAFGLQVPSELGGVGLCNTQYARLVEIVGMHDLGVGITLGA  
HQSIGFKGILLFGTKAQKEKYLPLASGETVAAFCLTEPSSGSDAASIRTSAPVSPCGKY  
YTLNGSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGGGITHGPPEKKM  
GIKASNTAEVFFDGVVRVPSENVLGEVSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAV  
DHATNRTQFGEKIHNFGLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIEAAISKI  
FGSEAAWKVTDECIQIMGGMGFMKEPGVERVLRDLRIFRIFEGTNDILRLFVALQGCMDB  
GKELSGLSALKNPFGNAGLLLGEAGKQLRRRAGLGSGLSGLVHPELSRSGELAVRAL  
EQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLAMVVLSRASRSLSEGHPTAQHEK  
MLCDTWCIEAAARIREGMAALQSDPWQELYRNFKSISKALVERGGVVTNPLGF

>sp|Q96GR2|ACBG1\_HUMAN Long-chain-fatty-acid--CoA ligase ACSBG1 OS=Homo sapiens GN=ACSBG1  
PE=2 SV=2

MPRNSGAGYGCPHGDPSMLDSRETPQESRQDMIVRTTQEKLKTSSLTDRQPLSKESLNHA  
LELSVPEKVNNAQWDAPEEALWTTRADGRVRLRIDPSCPQLPYTVHRMFYEALDKYGDLI  
ALGFKRQDKWEHISYSQYYLLARRAAKGFLKLGLKQAHSVAILGFNSPEWFFSAVGTVFA  
GGIVTGIYTTSSPEACQYIAYDCCANVIMVDTQKQLEKILKIWKQLPHLKAVVIYEPPP  
NKMANVYTMEEFMELGNEVPPEALDAIIDTQQPNQCCVLVYTS GTTGNPKGVMLSQDNIT  
WTARYGSQAGDIRPAEVQQEVVVSYLPLSHIAAQIYDLWTGIQWGAQVCFAEPDALKGSL  
VNTLREVEPTSHMGVPRVWEKIMERIQEVAAQSGFIRRKMLLWAMSVTLEQNLTCPGSDL  
KPFTRRLADYLVAKVRQALGFAKQKNFYGAAPMAETQHFFLGLNIRLYAGYGLSETS  
GPHFMSSPYNYRLYSSGKLVPGCRVKLVNQDAEGIGEICLWGRTIFMGYLNMEDKTCEAI  
DEEGWLHTGDAGRLDADGLYITGRKLKELIITAGGENVPPVPIEEAVKMELPIISNAML  
GDQRKFLSMLLTLKCTLDPDTSQTDNLTEQAMEFCQRVGSRATTVSEIIIEKKDEAVYQA  
IEEGIRRVNMNAARPYHIQKWAILERDFSISGGELGPTMKLKRLLTVLEKYKGIIDSFYQ  
EQKM

>sp|P13746|1A11\_HUMAN HLA class I histocompatibility antigen, A-11 alpha chain OS=Homo  
sapiens GN=HLA-A PE=1 SV=1

MAVMAPRTLLLLSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDQETRNKAQSQTDRVDLGTLRGYNQSEDGSHTIQ  
IMYGCDVGPDGRFLRGYRQDAYDGKDYIALNEDLRSWTAADMAAQITKRKWEAAHAAEQQ  
RAYLEGRCVEWLRRLYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDELVETRPAGDGTQKWAAVVVPSEEGRYTCHVQHEGLPKPLTLRWEL  
SSQPTIPIVGIAGLVLLGAVITGAVVAVMWRRKSSDRKGSYTAASSDSAQGSQSDVSL  
TACKV

>sp|P30460|1B08\_HUMAN HLA class I histocompatibility antigen, B-8 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVG YVDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWDRTQIFKTNTQTDRESLRNLRGYNQSEAGSHTLQ  
SMYGCDVGP DGRLLRGHNQYAYDGKD YIALNEDLRSWTAADTAAQITQRKWEAARVAEQD  
RAYLEGTCVEWLRRLYLENGKDTLERADPPKTHVTHHPISDHEATLRCWALGFYP AEITLT  
WQRDGEDQTQDTEL VETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVA VMCR RKSSGGKGGSYQAACSDSAQGS DVSL  
TA

>sp|P30464|1B15\_HUMAN HLA class I histocompatibility antigen, B-15 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2

MRVTAPRTVLLLLSGALALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVG YVDDTQFVRF  
DSDAASPRMAPRAPWIEQEGPEYWDRETQISKNTQTYRESLRNLRGYNQSEAGSHTLQ  
RMYGCDVGP DGRLLRGHDQSAYDGKD YIALNEDLSSWTAADTAAQITQRKWEAAREAEQW  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYP AEITLT  
WQRDGEDQTQDTEL VETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCR RKSSGGKGGSYQAASSDSAQGS DVSL  
TA

>sp|Q31612|1B73\_HUMAN HLA class I histocompatibility antigen, B-73 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFHTSVSRPGRGEPRFITVG YVDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWDRTQICKAKAQTD RVGLRNLRGYNQSE DG SHTWQ  
TMYGCDMGP DGRLLRGYNQFAYDGKD YIALNEDLRSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGECVEWLRRLHLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYP AEITLT  
WQRDGEDQTQDTEL VETRPAGDGT FQKWA AVVVP SGQE QRYTCHVQHEGLQEPCTLRWKP  
SSQSTIPIVGIVAGLAVLVVTAVVAVVA VMCR RKSSGGKGGSYQAASSDSAQGS DVSL  
LTA

>sp|Q31610|1B81\_HUMAN HLA class I histocompatibility antigen, B-81 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLWGAVALTETWAGSHSMRYFYTSVSRPGRGEPRFISVG YVDDTQFVRF  
DSDAASPREEPRAPWIEQEGPEYWDRTQIYKAAQTDRESLRNLRGYNQSEAGSHTLQ  
SMYGCDVGP DGRLLRGHNQYAYDGKD YIALNEDLRSWTAADTAAQISQRKLEAARVAEQL  
RAYLEGECVEWLRRLYLENGKDKLERADPPKTHVTHHPISDHEATLRCWALGFYP AEITLT  
WQRDGEDQTQDTEL VETRPAGDRTFQKWT AVVVP SGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVA VMCR RKSSGGKGGSYQAACSDSAQGS DVSL  
TA

>sp|P30499|1C01\_HUMAN HLA class I histocompatibility antigen, Cw-1 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMEPRTLILLLSGALALTETWACSHSMKYFFTSVSRPGRGEPRFISVG YVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYNRQAQTD RVSLRNLRGYNQSEAGSHTLQ  
WMCGCDLGP DGRLLRGYDQYAYDGKD YIALNEDLRSWTAADTAAQITQRKWEAAREAEER  
RAYLEGTCVEWLRRLYLENGKESLQRAEHPKTHVTHHPVSDHEATLRCWALGFYP AEITLT  
WQWDGEDQTQDTEL VETRPAGDGT FQKWA AVVMVP SGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVVAVVMCR RKSSGGKGGSCSQAASSNSAQGSDES

LIASKA

>sp|P30501|1C02\_HUMAN HLA class I histocompatibility antigen, Cw-2 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMEPRTLILLSSGALALTETWACSHSMRYFYTAVSRPSRGEPHFIAVGYYDDTQFVRF  
DSDAASPRGEPGRWVEQEGPEYWDRETQKYNRQAQTDRVNLRLRGYYNQSEAGSHTLQ  
RMYGCDLGPDRLLRGYDQSAYDGKDYLALNEDLRSWTAADTAAQITQRKWEAAREAEW  
RAYLEGECVEWLRRLYLENGKEKLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPTTEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVVAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIASKA

>sp|P30504|1C04\_HUMAN HLA class I histocompatibility antigen, Cw-4 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMAPRTLILLSSGALALTETWAGSHSMRYFSTSVSWPGRGEPHFIAVGYYDDTQFVRF  
DSDAASPRGEPREPWVEQEGPEYWDRETQKYKRQAQADRVNLRLRGYYNQSEDGSHTLQ  
RMFGCDLGPDRLLRGYNQFAYDGKDYLALNEDLRSWTAADTAAQITQRKWEAAREAEQR  
RAYLEGTCVEWLRRLYLENGKETLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQWDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWKP  
SSQPTIPIVGIVAGLAVLAVLAVLGAMVAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIACKA

>sp|Q29963|1C06\_HUMAN HLA class I histocompatibility antigen, Cw-6 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2

MRVMAPRTLILLSSGALALTETWACSHSMRYFDTAVSRPGRGEPFISVGYYDDTQFVRF  
DSDAASPRGEPAPWVEQEGPEYWDRETQKYKRQAQADRVNLRLRGYYNQSEDGSHTLQ  
WMYGCDLGPDRLLRGYDQSAYDGKDYLALNEDLRSWTAADTAAQITQRKWEAAREAEQW  
RAYLEGTCVEWLRRLYLENGKETLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVMAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIACKA

>sp|P30505|1C08\_HUMAN HLA class I histocompatibility antigen, Cw-8 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMAPRTLILLSSGALALTETWACSHSMRYFYTAVSRPGRGEPHFIAVGYYDDTQFVQF  
DSDAASPRGEPAPWVEQEGPEYWDRETQKYKRQAQTDRVSLRNLRGYYNQSEAGSHTLQ  
RMYGCDLGPDRLLRGYNQFAYDGKDYLALNEDLRSWTAADTAAQITQRKWEAARTAEQL  
RAYLEGTCVEWLRRLYLENGKKTQLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWGP  
SSQPTIPIVGIVAGLAVLAVLAVLGAVMAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIACKA

>sp|P30510|1C14\_HUMAN HLA class I histocompatibility antigen, Cw-14 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2

MRVMAPRTLILLSSGALALTETWACSHSMRYFSTSVSRPGRGEPHFIAVGYYDDTQFVRF  
DSDAASPRGEPAPWVEQEGPEYWDRETQKYKRQAQTDRVSLRNLRGYYNQSEAGSHTLQ  
WMFGCDLGPDRLLRGYDQSAYDGKDYLALNEDLRSWTAADTAAQITQRKWEAAREAEQR  
RAYLEGTCVEWLRRLYLENGKETLQRAEHPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQWDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWEP

SSQPTIPIVGIVAGLAVLAVLAVLGAVVAVVMCRRKSSGGKGGSCSQAASSNSAQGSDES  
LIACKA

>sp|Q95604|1C17\_HUMAN HLA class I histocompatibility antigen, Cw-17 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1

MRVMAPQALLLLSGALAL IETWAGSHSMRYFYTAVSRPGRGEPRFIAVGYVDDTQFVRF  
DSDAASPRGEPRAPWVEQEGPEYWDRETQKYKRQAQADRVNLRKLRGYNQSEAGSHTIQ  
RMYGCDLPGDGRLLRGYNQFAYDGKDYIALNEDLRSWTAADTAAQISQRKLEAAREAEQL  
RAYLEGECVWEWLRGYLENGKETLQRAERP KTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTEL VETRPAGDGT FQKWA AVVPSGQEQR YTVCHVQHEGLQEPCTLRWKP  
SSQPTIPNLGIVSGPAVLAVLAVLAVLAVLGAVVA AVIHRRKSSGGKGGSCSQAASSNSA  
QGSDES LIACKA

>sp|Q15173|2A5B\_HUMAN Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta isoform OS=Homo sapiens GN=PPP2R5B PE=1 SV=1

METKLPPASTPTSPSPGLSPVPPPKVDGFSRRSLRRARPRRSHSSSQFRYQSNQQELT  
PLPLLKDVPASELHELLSRKLAQCVMFDFLDCVADLKGKEVKRAALNELVECVGSTRGV  
LIEPVYPDIIRMISVNIFRTLPPSENPEFDPEEDEPNLEPSWPHLQLVYEFFLRFLLESPD  
FQPSVAKRYVDQKFVLMLELFDSEDPREERYLKTILHRVYGKFLGLRAYIRKQCNHIFL  
RFIYEFHFNGVAELLEILGSIINGFALPLKTEHKQFLVRVLIPLHSVKLSVFHAQLAY  
CVVQFLEKDATLTEHVIRGLLKYWPKTCTQKEVMFLGEMEEILDVIEPSQFVKIQEPLFK  
QVARCVSSPHFQVAERALYFWNNEYILSLIEDNCHTVLPAVFGTLYQVSKEHWNQTIVSL  
IYNVLKTFMEMNGKLFDEL TASYKLEKQEQKQAKERQELWQGLEELRLRRLQGTQGAKE  
APLQRLTPQVAASGGQS

>sp|Q16537|2A5E\_HUMAN Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit epsilon isoform OS=Homo sapiens GN=PPP2R5E PE=1 SV=1

MSSAPTPPSVDKVDGFSRKSVRKARQKRSQSSSQFRSQGKPIELTPLPLLKDVPSSEQP  
ELFLKKLQCCVIFDFMDTSLDKMKEYKRSTLNELVDYITISRGCLTEQTYPEVVRMVS  
CNIFRTLPPSDSNEFDPEEDEPTLEASWPHLQLVYEFFIRFLESQEFQPSIAKKYIDQKF  
VLQLELFDSEDPRERDYLVHRIYGKFLGLRAFIKQINNIFLRFVYETEHFNGVAE  
LLEILGSIINGFALPLKAEHKQFLVKVLIPLHTVRSLSLFHAQLAYCIVQFLEKDPSTE  
PVIRGLMKFWPKTCSQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVA  
ERALYYWNEYIMSLIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNST  
MFDEL TATYKSDRQREKKKEKEREELWKKLEDELKRLRRDGI IPT

>sp|Q9TQE0|2B19\_HUMAN HLA class II histocompatibility antigen, DRB1-9 beta chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLKLPGGSCMAALTVTLMLVSSPLALAGDTQPRFLKQDKFECHFFNGTERVRYLHRGI  
YNQEENVRFDSVDGEYRAVTELGRPVAESWNSQKDFLERRRAEVDTVCRHNYGVGESFTV  
QRRVHPEVTVYPAKTQPLQHNNLLVCSVSGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNG  
DWTFTLVMLETVPRSGEYVTCQVEHPSVMSPLTVEWRARSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|Q9Y3L3|3BP1\_HUMAN SH3 domain-binding protein 1 OS=Homo sapiens GN=SH3BP1 PE=1 SV=3

MMKRQLHRMRQLAQTGSLGRTPETA EFLGEDLLQVEQRLEPAKRAAHNIHKRLQACLQGQ  
SGADM DKRVKKLPLMALSTTMAESFKELDPDSSMGKALEMSCAIQNQLARILAEFEMTLE  
RDVLQPLSRLSEEELPAILKHKKSLQKLVSDWNTLKSRLSQATKNSGSSQGLGGSPGSHS  
HTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRLLEIQADYHRR

SLSSLDTALAELRENHGQADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMML  
LSEGMKEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCDPHAVAGALKSYLRELPEPLM  
TFDLYDDWMRAASLKEPGARLQALQEVCSRLPPENLSNLRYLMKFLARLAEQEVNKMTP  
SNIAIVLGNLLWPPEKEGDQAQLDAASVSSIQVVGVEALIQSADTLFPGDINFNVSGL  
FSAVTLQDTVSDRLASEELPSTAVPTPATTPAPAPAPAPAPALASAATKERTESEVPP  
RPASPKVTRSPPETAAPVEDMARRTKRPAPARPTMPPPVVSGSRSSPPAPPLPPGSGSPG  
TPQALPRRLVGSRLRAPTVPPPLPPTPPQPARRQSRRSPASPSASPGPASPSVLSNP  
AQVDLGAATAEGGAPEAISGVPTPPAIPPQPRPRSLASETN

>sp|O60239|3BP5\_HUMAN SH3 domain-binding protein 5 OS=Homo sapiens GN=SH3BP5 PE=1 SV=2

MDAALKRSRSEEPAEILPPARDEEEEEEGMEQGLEEEEEVDPRIQGELEKLNQSTDDIN  
RRETELEDARQKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEARRVARQAQLEAQKATQ  
DFQRATEVLRAAKETISLAEQRLLLEDDKRQFDSAWQEMLNHATQRMVMAEQTKTRSELVH  
KETAARYNAAMGRMRQLEKKLKRAINKSKPYFELKAKYYVQLEQLKKTVDLQAKLTLAK  
GEYKMLKNLEMISDEIHERRRSSAMGPRGCGVGAEGSSTSVEDLPGSKPEPD AISVASE  
AFEDDSCSNFVSEDDSETQSVSSFSGPTSPSEMPDQFPAVVRPGSLDLPSVLSSEFGM  
MFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNRGLSSSSGSGGSSKSQSST  
SPEGQALENRMKQLSLQCSKGRDGIADIKMVQIG

>sp|Q9NRA8|4ET\_HUMAN Eukaryotic translation initiation factor 4E transporter OS=Homo sapiens GN=EIF4ENIF1 PE=1 SV=2

MDRRSMGETESGDAFLDLKKPPASKCPHRYTKEELLDIKELPHSKQRPSCLSEKYDSGDV  
WDPEKWHASLYPASGRSSPVESLKKELDTDRPSLVRRIVDPREVRKEDDLDVVLS PQRRS  
FGGGCHVTA AVSSRRSGSPLEKDSGLRLLGGRRIGSGRIISARTFEKDHRLSDKDLRDL  
RDRDRERDFDKRFRREFGDSKR VFGERRRND SYTEEEPEWFSAGPTSQSETIELTGFD  
KILEEDHKGRKRTRRRRTASVKEGIVECNGGVAEEDEVEVILAQEPAADQEVPRDAVLPEQ  
SPGDFDFNEFFNLDKVPCLASMIEDVLGEGSVSASRFSRWFSNPSRSGSRSSSLGSTPHE  
ELERLAGLEQA ILSPGQNSGNYFAPIPLEDHAE NKVDILEMLQKAKVDL KPLLSSLSANK  
EKLKESHS SGVVL SVEEVEAGLGLKVDQVKNSTPFMAEHLEETLSAVTNNRQLKKDGD  
MTAFNKL VSTMKASGTLPSPKVS RNLESHLMSPA EIPGQPVPKNILQELLGQPVQRPAS  
SNLLSGLMGSLEPTTSLGQRAPSPPLSQVFQTRAASADYLRPRIPSPIGFTPGPQQLLG  
DPFQGMRKPMSPIT AQMSQLELQQA ALEGLALPHDLAVQAANFYQPGFGKPQVDRTRDGF  
RNRQQRVTKSPAPVHRGNSSSPAPAASITSM LSPSFTPTSVIRKMYESKEKSKEEPASGK  
AALGDSKEDTQKASEENLLSSSVPSADRDSSPTTNSKLSALQRSSCSTPLSQANRYTKE  
QDYRPKATGRKTPTLASPVPTTFLRPVHQVPLVPHVPMVRPAHQLHPGLVQRMLAQGVH  
PQHLP SLLQTGVLP PGMDLSHLQGISGPILGQPFYPLPAASHPLL NRP RGTPLHLAMVQQ  
QLQRSVLHPPGSGSHAAAVSVQTPQNVPSRSGLPHMHSQLEHRPSQRSSSPVGLAKWFG  
SDVLQQPLPSMPAKVISVDELEYRQ

>sp|P08195|4F2\_HUMAN 4F2 cell-surface antigen heavy chain OS=Homo sapiens GN=SLC3A2 PE=1 SV=3

MELQPPEASIAVVSIPRQLPGSHSEAGVQGLSAGDDSELGSHCVAQTGLELLASGDPLPS  
ASQNAEMIETGSDCVTQAGLQLLASSDPPALASKNAEVTGTMSQDTEVDMKEVELNELEP  
EKQPMNAASGAAMSLAGAEKNGLVKIKVAEDEAEAAAAAKFTGLSKEELLKVAGSPGWVR  
TRWALLLLFWLGLGMLAGAVV IIVRAPRCRELPAQKWWHTGALYRIGDLQAFQGHGAGN  
LAGLKGRLDYLSLKVKGVLVGP IHNKQKDDVAQTDLLQIDPNFGSKEDFDSLLQSACKK  
SIRVILD LTPNYRGENSWFSTQVDTVATKVKDALEFWLQAGVDGFGVQRDIENLKDASSFL

AEWQNITKGFSEDRLLIAGTNSSDLQQILSLLESNKDLLLTSSYLSDSGSTGEHTKSLVT  
QYLNATGNRWCSWSLSQARLLTSFLPAQLLRLYQLMLFTLPGTPVFSYGDEIGLDAALP  
GQPMEAPVMLWDESSFPDIPGAVSANMTVKGQSEDPGSLLSLFRRLSDQRSKERSLLHGD  
FHAFSAGPGLFSYIRHWDQNERFLVVLNFGDVGLSAGLQASDLPASASLPKADLLSTQ  
PGREEGSPLELERLKLPEHEGLLLRFPYAA

>sp|P08908|5HT1A\_HUMAN 5-hydroxytryptamine receptor 1A OS=Homo sapiens GN=HTR1A PE=1 SV=3  
MDVLSPGQGNTTSPPAFETGGNTTGISDVTVSYQVITSLLLGTILFCAVLGNACVVAA  
IALERSLQNVANYLIGSLAVTDLMVSVLVLPMALYQVLNKWTLGQVTCDLFIALDVLCC  
TSSILHLCAIALDRYWAITDPIDYVNKRTPRRAAALISLTWLIGFLISIPPMLGWRTPED  
RSDPDACTISKDHGYTIYSTFGAFYIPLLLMLVLYGRIFRAARFRIRKTVKKVEKTGADT  
RHGASPAPQPKKSVNGESGSRNWRLGVESKAGGALCANGAVRQGDDGALEVIEVHRVGN  
SKEHLPLPSEAGTPCAPASFERKNERNNAEAKRKMALARERKTVKTLGIIMGTFILCWLP  
FFIVALVLPFCESSCHMPTLLGAIINWLGYSNLLNPVIYAYFNKDFQNAFKKIICKKFC  
RQ

>sp|Q13639|5HT4R\_HUMAN 5-hydroxytryptamine receptor 4 OS=Homo sapiens GN=HTR4 PE=1 SV=2  
MDKLDANVSSEEGFGSVEKVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIV  
SLAFADLLVSVLVMFPGAIELVQDIWIYGEVFCVLRVTSLDVLLTTASIFHLCCISLDRIY  
AICCPVLYRNKMTPLRIALMLGGCWVPTFISFLPIMQGWNIGIIDLIEKRKFNQSN  
STYCVFMVNKPYAITCSVVAFYIPFLLMVLAYYRIYVTAKEHAHQIQLQRAGASSES  
RQ  
QSADQHSTHRMTETKAATLCIIMGCFCLCWAPFFVTNIVDPFIDYTVPGQVWTAFLWL  
GYINSGLPFLYAFLNKSFRRAFLIILCCDDERYRPSILGQTVPCSTTTINGSTHVLRD  
AVECGGQWESQCHPPATSPLVAAQPSDT

>sp|P34969|5HT7R\_HUMAN 5-hydroxytryptamine receptor 7 OS=Homo sapiens GN=HTR7 PE=1 SV=2  
MMDVNSSGRPDLYGHLRSFLLPEVGRGLPDLSPDGGADPVAGSWAPHLLSEVTASAPPTW  
DAPPDNASGCGEQINYGRVEKVVISILTLITLLTIAGNCLVVISVCFVKLRQPSNYLI  
VSLALADLSVAVAVMPFVSVTDLIGGKWIFGHFFCNVFIAMDVMCCTASIMTLCVISIDR  
YLGITRPLTYPVRQNGKCMAMILSVWLLSASITLPLFGWAQNVNDDKVCLISQDFGYT  
IYSTAVAFYIPMSVLMFYQIYKAARKSAAKHKFPGFPRVEPDSVIALNGIVKLQKEVE  
ECANLSRLLKHERKNISIFKREQKAATTLGIIVGAFTVCWLPFFLLSTARPFICGTSCSC  
IPLWVERTFLWLGYANSLINPFIYAFFNRDLRTTYRSLQCQYRNINRKL SAAGMHEALK  
LAERPERPEFVLRACTRRVLLRPEKRPPVSVWVLQSPDHHNWLADKMLTTVEKKVMIHD

>sp|Q96P26|5NT1B\_HUMAN Cytosolic 5'-nucleotidase 1B OS=Homo sapiens GN=NT5C1B PE=2 SV=2  
MSQTSLKQKKNEPGMRSSKESLEAEKRKESDKTGVRLSNQMRRVNPVNHSLRCCPFQGH  
SCRRCLCAAEGTALGPCHTIRIYIHMCLLWEQGGQITMMRGSQESSLRKTDSRGYLVRSQ  
WSRISRSPSTKAPSIDEPSRNTSAKLPSSTSSRTPSTSPSLHDSSPPPLSGQPSLQPP  
ASPQLPRSLDSRPPTPEPDGSRRTKMENPEAWAQGIVREIRQTRDSQPLEYSRTSP  
TEWKSSSQRRGIYPASTQLDRNSLSEQQQQQREDEDDYEAAYWASMSFYEKNPSCSRPW  
PPKPKNATIALSSCALFNMVDGRKIYEQEGLEKMEYQLTNENVILTPGPAFRFVKALQ  
YVNARLRLDYPDEQDLFDIVLMTNNHAQVGVRLINSVNHYGLLIDRFCLTGGKDPIGYLK  
AYLTNLYIAADSEKVQEAIQEGIASATMFDGAKDMAYCDTQLRVAFDGDVLFSDSEHF  
TKEHGLDKFFQYDTLCESKPLAQGPLKGFLDLGRLQKKFYAKNERLLCPIRTYLVARS  
AASSGARVLKTLRRWGLEIDEALFLAGAPKSPILVKIRPHIFFDDHMFHIEGAQRLGSIA  
AYGFNKKFSS

>sp|Q9H0P0|5NT3A\_HUMAN Cytosolic 5'-nucleotidase 3A OS=Homo sapiens GN=NT5C3A PE=1 SV=3

MRAPSMdraaVARVGAVASASVcalVAGVLAQYIFTLKRKTGRKTKIEMMPEFQKSSV  
RIKNPTrVEEIIcGLIKGGAakLQIITDFDmTLsRFSYKGKRCPTCHNIIDNCKLVTDEC  
RKKLLQLKEKYyAIEVDPVLTVEEKYPYmVEWYTKSHGLLVQQALPKAKLKEIVAESDVM  
LKEGYENFFDKLQQHSIPVFIFSAGIGDVLEEVIRQAGVYHPNVKVSNFMDfDETGVLK  
GfKGELIHVFNKHDGALRNTEYfNQLKDNSNIILLGDSQGDLRMADGVANVEHILKIGYL  
NDRVDELLEKYmDSYDIVLVQDESLEVANSILQKIL

>sp|P05408|7B2\_HUMAN Neuroendocrine protein 7B2 OS=Homo sapiens GN=SCG5 PE=1 SV=2  
MVSrMVSTmLSGLFWLASGWTpAFAYSPrTPdrVSEADiQRLLHGvMEQLGIARPrVEY  
PAHQAMNLVGpQSIEGGAHEGLQHLGPFGNIPNIVAELTGDNIpKDFSEDQGYDPpNPC  
PVGKTADDGCLenTPDTAEFSREFQLHQHLFDPEHDYPGLGKWNKLLYEKMKGGERrKR  
RSVNPYLQGGRLDNVvAKKSVPHfSDEDKDPE

>sp|P29275|AA2BR\_HUMAN Adenosine receptor A2b OS=Homo sapiens GN=ADORA2B PE=2 SV=1  
MLLETQDALYVALELVIAALSVAGNVLVCAAVGTANTLQTPTNYFLVSLAAADVAVGLFA  
IPFAITISLGfCTDFYgCLFLACfVLVLTQSSIFSLlavAVDRYLAICVPLRYKSLVTGT  
RARGVIAVLWVLAfGIGLTPfLgWNSKDSATNNCTEPWDGTTNEScCLVKCLFENVVPMS  
YmVYfNFFGCVLPpLLIMLVIIYIKIFLVACRQLQRTELMDHSRTTLQREIHAakSLAMIV  
GIFALCWLPVHAVNCVTLfQPAQgKNKPKWAMNMAILLSHANSVvNPiVYAYRNrDRfRYT  
FHKIIISRYLLCQADVKSGNGQAGVQPALGVGL

>sp|Q9Y478|AAKB1\_HUMAN 5'-AMP-activated protein kinase subunit beta-1 OS=Homo sapiens  
GN=PRKAB1 PE=1 SV=4  
MGNTSSERAALERHGGHKTPrRDSSGGTKDGRPKILMDSPEDADLFHSEEIKAPEKEEF  
LAWQHDLEVNdkAPaQARPTVFRWTGGGKEVYLSGSfNNWSKLPLTRSHNNFvAILDLPE  
GEHQYKFFVDGQWTHDPSEPIVTSQLGTvNNIIQVKKTDFEVFDALMVDSQKCSdVSELS  
SSPPGPYHQEPYvCKPEERFRAPPILPPhLLQVILNKDTGISCdPALLPEPNHvMLNHLY  
ALSIKDGVMVLSATHRYKKKYVTLLYKPI

>sp|Q9UGI9|AAKG3\_HUMAN 5'-AMP-activated protein kinase subunit gamma-3 OS=Homo sapiens  
GN=PRKAG3 PE=1 SV=3  
MEPGLEHALRRTpSWSSLGSEHQEMSFLEqENSSSWPSpAVTSSSERIRGKRRAKALRW  
TRQKSVEEGEPpQGEGPRSRpAAESTGLEATfPKTTPLAQADpAGVGTpPTGWDCLPSD  
CTASAAGSSTDDVELATEFPATEAWECELEGLLEERPALCLSPQAPfPKLGWDDELrKPG  
AQIYMRfMQEHTCYDAMATSSKLVIFDTMLEIKKAFFALVANGVRAAPLWDSKKQSFVGM  
LTITDFILVLHRYRSPLVQIYEIEQHkiETWREIYLQGCfKPLVSIspNDSLFEAVYTL  
IKNRIHRLPVLDpVSGNVLHILTHKRLKfLHIFGSLLPrPSfLYRTIQDLGIGTFRDLA  
VVLETAPILTALDIFVDRRVsALPVVNECGQVVGLYSRFDVIHLAAQQTYNHLDMSVGEA  
LRQRTLCLegVLSQCpHESLGEVIDRIAREQVHRLVLVDETQHLLGVVSLSDILQALVLS  
PAGIDALGA

>sp|Q9H7C9|AAMDC\_HUMAN Mth938 domain-containing protein OS=Homo sapiens GN=AAMDC PE=1  
SV=1  
MTSPeIASLSWGQMKVKGsNTTYKdCKVWPgGSRTWDWRETGTEHSPGVQPADVKEVVEK  
GVQTLVIGRGMSEALKVPSSTVEYLKKHGIDVRVLQTEQAVKEYNALVAQGVRVGgVFHS  
TC

>sp|Q9Y235|ABEC2\_HUMAN C->U-editing enzyme APOBEC-2 OS=Homo sapiens GN=APOBEC2 PE=1 SV=1  
MAQKEEAaVATEASQNGEDLENLDdPEKLKELIElPPFEIVTGERLPANFFKFQFRNVE  
YSSGRNKtFLCYVVEAQGKGgVQASRGYLEDEHAAAHAEeAFFNTILPAFDpALRYNVT

WYVSSSPCAACADRIIKTLSTKTNLRLILVGRLFMWEEPEIQAALKKLKEAGCKLRIMK  
PQDFEYVWQNFVEQEEGESKAFQPWEDIQENFLYYEEKLADILK

>sp|P42684|ABL2\_HUMAN Abelson tyrosine-protein kinase 2 OS=Homo sapiens GN=ABL2 PE=1 SV=1

MGQQVGRVGEAPGLQPPQPRGIRGSSAARPSGRRRDPAGRRTTETGFNIFTQHDHFASCVE  
DGFEGDKTGGSSPEALHRPYGCDVEPQALNEAIRWSSKENLLGATESDPNLFVALYDFVA  
SGDNLTLSITKGEKLRVLGYNQNGEWSEVRSKNGQGWPVSNYITPVNSLEKHSWYHGPVSR  
SAAEYLLSSLINGSFLVRESESSPGQLSISLRYEGRVYHYRINTTADGKVYVTAESRFST  
LAELVHHHSTVADGLVTTLHYPAKCNKPTVYGVSPIHDKWEMERTDITMKHKLGGGQYG  
EYVYGVWKKYSLTVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQLLGVCTLEPPFYIV  
TEYMPYGNLLDYLRECNREEVTAVVLLYMATQISSAMEYLEKKNFIHRDLAARNCLVGEN  
HVVKVADFGLSRLMTGDTYTAHAGAKFPIKWTAPESLAYNTFSIKSDVWAFGVLLWEIAT  
YGMSPYPGIDLSQVYDLLEKGYRMEQPEGCPPKVYELMRACWKWSPADRPSSFAETHQAFE  
TMFHDSSISEEVAEELGRAASSSSVVPYLPRLPILPSKTRTLKKQVENKENIEGAQDATE  
NSASSLAPGFIIRGAQASSGSPALPRKQRDKSPSSLLEDAKETCFTRDRKGGFFSSFMKKR  
NAPTPPKRSSSFREMENQPHKKYELTGNFSSVASLQHADGFSFTPAQQEANLVPPKCYGG  
SFAQRNLCNDGGGGGGSGTAGGGWSGITGFFTPRLIKKTLGLRAGKPTASDDTSKPFPR  
SNSTSSMSSGLPEQDRMAMTLPRNCQRSKLQLERTVSTSSQPEENVDRANDMLPKKSEES  
AAPSRERPKAKLLPRGATALPLRTPSGDLAITEKDPPGVGVAGVAAAPKGKEKNGGARLG  
MAGVPEDGEQPGWSPAKAAPVLPTTHNHKVPVLISPTLKHTPADVQLIGTDSQGNKFKL  
LSEHQVTSSGDKDRPRRVKPKCAPPPPPVMRLQLHPSICSPTTEPTALTAGQSTSETQE  
GGKKAALGAVPISGKAGRPVMPPPQVPLPTSSISPAKMANGTAGTKVALRKTKAAEKIS  
ADKISKEALLECADLLSSALTEPVNSQLVDTGHQLLDYCSGYVDCIPQTRNKFAFREAV  
SKLELSLQELQVSSAAAGVPGTNPVLNNLLSCVQEISDVVQR

>sp|O14639|ABLIM1\_HUMAN Actin-binding LIM protein 1 OS=Homo sapiens GN=ABLIM1 PE=1 SV=3

MPAFLGLKCLGKLCSSSEKSKVTSSERTSARGSNRKRLIVEDRRVSGTSFTAHRATITHL  
LYLCPKDYCPRGRVCNSVDPFVAHPQDPHHPSEKPIHCHKCGEPCKGEVLRVQTKHFHI  
KCFTCKVCGCDLAQGGFFIKNGEYLCTLDYQRMYGTRCHGCGEFVEGEVVTALGKTYHPN  
CFACTICKRPFPPGDRVTFNGRDCLCQLCAQPMSSSPKETTFSSNCAGCGRDIKNGQALL  
ALDKQWHLGCFKCKSCGKVLTEGYISKDGAPYCEKDYQGLFGVKCEACHQFITGKVLEAG  
DKHYHPSCARCSRCNQMFTEGEEMYLQGSTVWHPDCKQSTKTEEKLRPTRTSSESISRP  
GSSIPGSPGHTIYAKVDNEILDYKDAAIPKVKAIYDIERPDLITYEPFYTSYDDKQER  
QSLGESPRTLSPTPSAEGYQDVRDMIHRSQSINSVPVYSRHSYPTTSRSPQHFRP  
GNEPSSGRNSPLPYRPDSRPLTPTYAQAPKHFHVPDQGINIYRKPIYKQHAALAAQSKS  
SEDI IKFSKFPAQAQAPDSETPKTIETHWPGPPSAFVVGPDMMKRSSGREEDDEELLRRR  
QLQEEQLMKLNSGLGQLILKEEMEKESRERSLLASRYDSPINSASHIPSSKTASLPGYG  
RNLHLPVSTDAFYNSYGDVSGGVRDYQTLPDGHMPAMRMDRGVSMNPMLPKIFPYEM  
LMVTNRGRNKKILREVDRTRLERHLAEPVFREIFGMSIQEFDRLPLWRRNDMKKKAKLF

>sp|Q9ULW3|ABT1\_HUMAN Activator of basal transcription 1 OS=Homo sapiens GN=ABT1 PE=1  
SV=1

MEAESEKAATEQEPELGTEQTLDAEEEQEESEEAACGSKKRVPVPGIVYLGHIPPRFRPL  
HVRNLLSAYGEVGRVFFQAEDRFVRRKKAAAAAGGKKRSYTKDYTEGWVEFRDKRIAKR  
VAASLHNTPMGARRRSPFRYDLWNLKYLHRFTWSHLSEHLAFERQVRRQRLRAEVAQAKR  
ETDFYLSVERGQRFALAADGDPARPDGSWTFAQRPTQEQLRARKAARPGGRERARLATAQ  
DKARSNKGLLARIFGAPPPSESMEGPSLVRDS



>sp|Q15057|ACAP2\_HUMAN Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2 OS=Homo sapiens GN=ACAP2 PE=1 SV=3

MKMTVDFFEELCKDSPRFRAALEEVEGDVAEELKLDKLVKLCIAMIDTGKAFVCVANKQFM  
NGIRDLAQYSSNDVAVETSLTKFSDSLQEMINFHTILFDQTQRSIKAQLQNFVKEDLRKF  
KDAKKQFEKVSEEKENALVKNAQVQRNKQHEVEEATNILTATRKCFRHIALDYVLQINVL  
QSKRRSEILKSMLSFMYAHLAFFHQGYDLFSELGPYMKDLGAQLDRLVVDAAKEKREMEQ  
KHSTIQKQDFSSDDSKLEYNVDAANGIVMEGYLFKRASNAFKTWNRRWFSIQNNQLVYQK  
KFKDNPTVVVEDLRLCTVKHCEDIERRFCFEVVSPTKSCMLQADSEKLRQAWIKAVQTSI  
ATAYREKGDSEKLDKSSPSTGSLDSGNESKEKLLKGESALQRVQCIPGNASCCDCGLA  
DPRWASINLGITLCIECSGIHRS LGVHFSKVRSLTLDTWEPELLKLMCELGNDVINRVYE  
ANVEKMGIKKPQPGQRQEKEAYIRAKYVERKFVDKYSISLSPPEQQKFVSKSSEEKRLS  
ISKFGPGDQVRASQSSVRSNDSGIQQSSDDGRESLPSTVSANSLEYEPGERQDSSMFLD  
SKHLNPGLQLYRASYEKNLPKMAEALAHGADVNWANSEENKATPLIQAVLGGS�VTCEFL  
LQNGANVNQRDVQGRPLHATVLGHTGQVCLFLKRGANQHATDEEGKDPLSIAVEAANA  
DIVTLLRLARMNEEMRESEGLYGQPGDETYQDIFRDFSQMASNNPEKLNRFQQDSQKF

>sp|Q8N6N7|ACBD7\_HUMAN Acyl-CoA-binding domain-containing protein 7 OS=Homo sapiens GN=ACBD7 PE=1 SV=1

MALQADFDRAEDVRKLKARPDDGELKELYGLYKQAIIVGDINIACPGMLDLKGKAKWEAW  
NLKKGLSTEDATSAYISKAKELIEKYGI

>sp|Q04917|1433F\_HUMAN 14-3-3 protein eta OS=Homo sapiens GN=YWHAH PE=1 SV=4

MGDREQLLQRRARLAEQAERYDDMASAMKAVTELNEPLSNEDRNLLSVAYKNVVGARRSSW  
RVISSIEQKTMADGNEKKLEKVKAYREKIEKELETVCNDVLSLLDKFLIKNCNDFQYESK  
VFYLMKMGDYRYLAEVASGEKKNSVVEASEAAYKEAFEISKEQMPTHPIRLGLALNFS  
VFYYEIQNAPEQACLLAKQAFDDAIAELDTLNEDSYKDSTLIMQLLRDNLTLWTSQQDE  
EAGEGN

>sp|P61981|1433G\_HUMAN 14-3-3 protein gamma OS=Homo sapiens GN=YWHAG PE=1 SV=2

MVDREQLVQKARLAEQAERYDDMAAAMKNVTELNEPLSNEERNLLSVAYKNVVGARRSSW  
RVISSIEQKTSADGNEKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESK  
VFYLMKMGDYRYLAEVATGEKRATVVESEKAYSEAHEISKEHMQPTHPIRLGLALNYS  
VFYYEIQNAPEQACHLAKTAFDDAIAELDTLNEDSYKDSTLIMQLLRDNLTLWTSQQDD  
DGEGGN

>sp|P27348|1433T\_HUMAN 14-3-3 protein theta OS=Homo sapiens GN=YWHAQ PE=1 SV=1

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGRRSAWR  
VISSIEQKTDTSKKLQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKV FYLK  
MKGDYFRYLAEVACGDDRKTIDNSQGAYQEAFDISKKEMQPTHPIRLGLALNFSVFYYE  
ILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNLTLWTSDSAGEECDAA  
EGAEN

>sp|Q4AC99|1A1L2\_HUMAN Probable inactive 1-aminocyclopropane-1-carboxylate synthase-like protein 2 OS=Homo sapiens GN=ACCSL PE=2 SV=3

MSHRSDTLVPVSGQRRGRVPRDHSIYTQLLEITLHLQQAMTEHFVQLTSRQGLSLEERRH  
TEAICEHEALLSRLICRMINLLQSGAASGLELQVPLPSEDSRGDVRYGQRAQLSGQPDPV  
PQLSDCEAAAFVNRDLSIRGIDISVFYQSSFQDYNAYQDKYHKDKNTLGFINLGTSENKL  
CMDLMTERLQESDMNCIEDTLLQYPDWRGQPFLREEVARFLTYCRAPTRLDPENVVVLN  
GCCSVFCALAMVLCDPGEAFLVPAPFYGGFAFSSRLYAKVELIPVHLESEVTVTNTHPFQ

LTVDKLEEEALLEARLEGKKVRGLVLINPQNPLGDIYSPDSLMKYLEFAKRYNLHVIIDEI  
YMLSVFDESITFHSILSMKSLPDSNRTHVIWGTSKDFGISGFRFGALYTHNKEVASAVSA  
FGYLHSISGITQHKLCQLLQNTIEWIDKVYLPNTCYRLREAHKYITAELEKALEIPFHNRSS  
GLYVWINLKKYLDPCTFEERLLYCRFLDNKLLLSRGKTYMCKEPGWFCCLIFADELPRLK  
LAMRRFCVDVLQEQKEALIVKQLEDAMRE

>sp|P30447|1A23\_HUMAN HLA class I histocompatibility antigen, A-23 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFSTSVSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYDDEETGKVKASHQTDRENLRALRYYNQSEAGSHTLQ  
MMFGCDVGS DGRFLRGYHQYAYDGKDYLKEDLRSWTAADMAAQITQRKWEAARVAEQL  
RAYLEGTCVDGLRRYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTVHIVGIIAGLVLLGAVITGAVVAAVMWRRNSSDRKGGSYSQAASSDSAQGS DVSL  
TACKV

>sp|P16188|1A30\_HUMAN HLA class I histocompatibility antigen, A-30 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLALLLLSGALALTHTWAGSHSMRYFSTSVSRPGSGEPRFIAVGYYDDTQFVRF  
DSDAASQRMEPRAPWIEQERPEYWDQETRNKVAQSQTDRVDLGLRGYYNQSEAGSHTIQ  
IMYGCDVGS DGRFLRGYEQHAYDGKDYLALNEDLRSWTAADMAAQITQRKWEAARWAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEL  
SSQPTIPIVGIIAGLVLLGAVITGAVVAAVMWRRKSSDRKGGSYTQAASSDSAQGS DVSL  
TACKV

>sp|P10314|1A32\_HUMAN HLA class I histocompatibility antigen, A-32 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2

MAVMAPRTLALLLLSGALALTQTWAGSHSMRYFFTSVSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASQRMEPRAPWIEQEGPEYWDQETRNKVAHSQTDRESLRALRYYNQSEAGSHTIQ  
MMYGCDVGP DGRLLRGYQQDAYDGKDYLALNEDLRSWTAADMAAQITQRKWEAARVAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA SVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQPTIPIVGIIAGLVLF GAFAGAVVAAVWRRKSSDRKGGSYSQAASSDSAQGS DMSL  
TACKV

>sp|P30455|1A36\_HUMAN HLA class I histocompatibility antigen, A-36 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAVMAPRTLALLLLSGALALTQTWAGSHSMRYFFTSVSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASQKMEPRAPWIEQEGPEYWDQETRNKVAHSQTDRLNLGTLRGYYNQSE DG SHTIQ  
IMYGCDVGP DGRFLRGYRQDAYDGKDYLALNEDLRSWTAADMAAQITKRKWEAVHAAEQR  
RVYLEGTCVEWLRRLYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEL  
SSQPTIPIVGIIAGLVLLGAVITGAVVAAVMWRRKSSDRKGGSYTQAASSDSAQGS DVSL  
TACKV

>sp|P30456|1A43\_HUMAN HLA class I histocompatibility antigen, A-43 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1

MAVMAPRTLVLALLSGALALTQTWAGSHSMRYFYTSVSRPGRGEPRFIAVGYYDDTQFVRF

MRVTAPRTLLLLWGAVALTETWAGSHSMRYFHTSVSRPGRGEPRFISVGYVDGTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWRNTQISKNTNTQTYRESLRNLRGYYNQSEAGSHTLQ  
RMYGCDVGPDRLLRGHDQSAYDGKDYIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGTCVEWLRRLHENGKETLQRADPPKTHVTHHPISDHEATLRCAWLGFPYAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVPSSGEEQRYTCHVQHEGLPKPLTLRWE  
SSQSTIPIVIGIVAGLAVLAVVIGAVVATVMCRKSSGGKGSYSQAASSDSAQGSVDVSL  
TA

MRVTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWRNTQIFKTNTQTYRESLRNLRGYYNQSEAGSHIIQ  
RMYGCDLGPDRLLRGHDQSAYDGKDIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P30475|1B39\_HUMAN HLA class I histocompatibility antigen, B-39 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGYYDDTQFVRF  
DSDAASPREPRAPWIEQEGPEYWRNTQICKTNTQTDRESLRNLRGYYNQSEAGSHTLQ  
RMYGCDVGPDRLLRGHNQFAYDGKDIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RTYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P30485|1B47\_HUMAN HLA class I histocompatibility antigen, B-47 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTL LLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFITVGYVDDTLFVRF  
DSDATSPRKEPRAPWIEQEGPEYWRDRETQISKNTNTQTYREDLRTLRLYYNQSEAGSHTLQ  
RMFGCDVGPDRLLRGYHQDAYDGKDIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGECVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGS DVSL  
TA

>sp|P30491|1B53\_HUMAN HLA class I histocompatibility antigen, B-53 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTVLLLLWGAVALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASPRTEPRAPWIEQEGPEYWRNTQIFKTNTQTYRENLR LIALRYYNQSEAGSHIIQ  
RMYGCDLGPDRLLRGHDQSAYDGKDIALNEDLSSWTAADTAAQITQRKWEAARVAEQL  
RAYLEGLCVEWLRRLYLENGKETLQRADPPKTHVTHHPVSDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P30493|1B55\_HUMAN HLA class I histocompatibility antigen, B-55 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1

MRVTAPRTL LLLLLW GALALTETWAGSHSMRYFYTAMSRPGRGEPRFIAVGYYDDTQFVRF  
DSDAASPREPRAPWIEQEGPEYWRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTWQ  
TMYGCDLGPDRLLRGHNQLAYDGKDIALNEDLSSWTAADTAAQITQRKWEAAREAEQL  
RAYLEGTCVEWLRRLYLENGKETLQRADPPKTHVTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPLTLRWEP  
SSQSTIPIVGIVAGLAVLAVVVIGAVVATVMCRRKSSGGKGGSYSQAASSDSAQGS DVSL  
TA

>sp|P01912|2B13\_HUMAN HLA class II histocompatibility antigen, DRB1-3 chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=2

MVCLRLPGGSCMAVLTVTLMLVSSPLALAGDTRPRFLEYSTSECHFFNGTERVRYLDRYF  
HNQEEENVRFSDSDVGEYRAVTELGRPDAEYWNSQKDLLEQKRGRVDNYCRHNYGVVESFTV  
QRRVHPKVTVYPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKTGVVSTGLIHNG  
DWTFTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFRNQKGHSGLQPRGFSL

>sp|P13761|2B17\_HUMAN HLA class II histocompatibility antigen, DRB1-7 beta chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=1

MVCLKLPGGSCMAALTVTLMLVSSPLALAGDTQPRFLWQGYKCHFFNGTERVQFLERLF  
YNQEEFVRFSDSDVGEYRAVTELGRPVAESWNSQKDILEDRRGQVDTVCRHNYGVGESFTV  
QRRVHPEVTVPYPAKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNG  
DWTFTLVMLETVPRSGEVYTCQVEHPSVMSPLTVEWRARSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFRNQKGHSGLQPTGFSL

>sp|Q30167|2B1A\_HUMAN HLA class II histocompatibility antigen, DRB1-10 beta chain OS=Homo sapiens GN=HLA-DRB1 PE=1 SV=2

MVCLRLPGGSCMAVLTVTLMLVSSPLALAGDTRPRFLEEVKFECHFFNGTERVRLLEERV  
HNQEEYARYDSVDVGEYRAVTELGRPDAEYWNSQKDLLERRRAAVDTCRHNHYGVGESFTV  
QRRVQPKVTVYPSKTQPLQHHNLLVCSVNGFYPGSIEVRWFRNGQEEKTGVVSTGLIQNG  
DWTFTLVMLETVPQSGEVYTCQVEHPSVMSPLTVEWRARSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFRNQKGHSGLPPTGFSL

>sp|Q7L8J4|3BP5L\_HUMAN SH3 domain-binding protein 5-like OS=Homo sapiens GN=SH3BP5L PE=1 SV=1

MAELRQVPGGRETPQGELRPEVVEDEVPRSPVAEPPGGGGSSSEAKLSPREEEELDPRI  
QEELEHLNQASEEINQVELQLDEARTTYRRILQESARKLNTQGSHLGSCIEKARPYEAR  
RLAKEAQQETQKAALRYERAVSMHNAAREMVFAEQGVMADKNRLDPTWQEMLNHATCKV  
NEAEEEELRGEREHQVRTRLCQQAERVQALQKTLRRAIGKSRPYFELKAQFSQILEEHK  
AKVTELEQQVAQAKTRYVALRNLEQISEQIHARRRGGLPPHPLGPRRSSPVGAEGPED  
MEDGDSGIEGAEGAGLEEGSSLGPGPAPDPTDLSLLSLRTVASDLQKCDSEHLRGLSDH  
VSLDGQELGTRSGGRRGSDGGARGGRHQRSVSL

>sp|P46952|3HAO\_HUMAN 3-hydroxyanthranilate 3,4-dioxygenase OS=Homo sapiens GN=HAAO PE=1 SV=2

MERRLGVRRAWVKENRGSFQPPVCNKLHQEQLKVMFIGGPNTKDYHIEEGEEVFYQLEG  
DMVLRVLEQGKHRDVFIRQGEIFLLPARVPHSPQRFANTVGLVVERRRLETELDGLRYV  
GDTMDVLFQKWFYCKDLGTQLAPIIQEFFSSEQYRTGKPIPDQLKEPPFPLSTRIMEP  
MSLDAWLDSHHRELQAGTPLSLFGDTYETQVIAYGQGSSEGLRQNVVWLWQLEGSSVVT  
MGRRRLSLAPDSSLLVLAGTSYAWERTQGSVALSVTQDPACKKPLG

>sp|O95336|6PGL\_HUMAN 6-phosphogluconolactonase OS=Homo sapiens GN=PGLS PE=1 SV=2

MAAPAPGLISVFSSSQELGAALQALVAQRAACCLAGARARFALGLSGGSLVSMRLARELPA  
AVAPAGPASLARWTLGFCDERLVPFDHAESTYGLYRTHLLSRLPIPESQVITINPELPVE  
EAAEDYAKKLQAFQGDSIPVFDLLILGVGPDGHTCSLFPDHPLLQEREKIVAPISDSPK  
PPPQRVTLTLPVLNAARTVIFVATGEGKAAVLKRILEDQEENPLPAALVQPHTGKLCWFL  
DEAAARLLTVPFEKHSTL

>sp|Q676U5|A16L1\_HUMAN Autophagy-related protein 16-1 OS=Homo sapiens GN=ATG16L1 PE=1 SV=2

MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLEKSDLHSVLAQKLQAEK  
HDVPNRHEISPGHDGTWNDNLQEMAQLRIKHQEELTELHKKRGELAQLVIDLNNQMQRK  
DREMQMNEAKIAECLQTISDLETECLDLRTKLCDLERANQTLKDEYDALQITFTALEGKL  
RKTTEENQELVTRWMAEKAQEANRLNAENEKDSRRRQARLQKELAEAAKEPLPVEQDDDI  
EVIVDETSDHTEETSPVRAISRATKRLSQPAGGLDSITNIFGRRSVSSFPVPQDNVDT  
HPGSGKEVRVPATALCVFDAHDGEVNAVQFSPGSRLLATGGMDRRVKLWEVFGEKCEFKG  
SLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTVDDYRLRHTLTGHSGKVLSAKFLLDN  
ARIVSGSHDRTLKLWDLRSKVCIKTVFAGSSCNDIVCTEQCVMSGHFDKKIRFWDIRSES  
IVREMELLGKITALDNLPERTELLSCSRDCLKVIDLRTNAIKQTFSA PGFKCGSDWTRV  
VFSPDGSYVAAGSAEGSLYIWSVLTKGVEKVL SKQHSSINAVAWSPSGSHVVSVDKGCK  
AVLWAQY

>sp|P20848|A1ATR\_HUMAN Putative alpha-1-antitrypsin-related protein OS=Homo sapiens  
GN=SERPINA2 PE=1 SV=1

MPFSVSWGVL LAGLCLVPSSLVEDPQGDA AAKTDTSHHDQGDWEDLACQKISYNVTDL  
AFDLYKSWLIYHNQHVLVTPTSVAMAFRMLSLGTKADTRTEILEGLNVNLTETPEAKIHE  
CFQQVLQALSRPDTRLQLTTGSSLFVNKSMKLVDTFLEDTKKLYHSEASSINFRDTEEAK  
EQINNYVEKRTGRKVVDLVKHLKKDTSALVDYISFHGKWKDKFKAERIMVEGFHVDDKT  
IIRVPMINHLGRFDIHRDRELSSWVLAQHYVGNATAFFILPDPKKMWQLEEKLTYSHLEN  
IQRAFDIRSINLHFPKLSISGTYKLRVPRNLGITKIFSNEADLSGVSQEAPLKLSKAVH  
VAVLTIDEKGTEATGAPHLEEKAWSKYQTMFNRPFVLVIKEYITNFPLFIGKVVNPTQK

>sp|Q4UJ75|A20A4\_HUMAN Ankyrin repeat domain-containing protein 20A4 OS=Homo sapiens  
GN=ANKRD20A4 PE=3 SV=1

MKLFGFGSRRGQTAQGSIDHVTGSGYRIRDSELQKIHRAAVKGDAAEVERCLARRSGEL  
DALDKQHR TALHLACASGHVQVVTLLVNRKCQIDVCDKENRTPLIQAVHCQEEACAVILL  
EHGANPNLKDIYGN TALHYAVYSESTSLAEKLLSHGAHIEALDKDNNTPLLFAIICKKEK  
MVEFLLKKKASSHAVDRLRRSALMLAVYYDSPGIVNILLKQNI DVFAQDMCGRDAEDYAI  
SHHLTKIQQQILEHKKKILKKEKSDVGSSDES AVSIFHEL RVDSLPASDDKDLNVATKQC  
VPEKVSEPLPGSSHEKGNRIVNGQGEGPPAKHPSLKPSTEVEDPAVKGAVQRKNVQTLRA  
EQALPVASEEEQQRHERSEKKQPQVKEGNNTNKSEKIQLSENICDSTSSAAAGRLTQQRK  
IGKTYPQQFPKKLKEEHDRCTLKQENEEKTNVNMLYKKNREELERKEKQYKKEVEAKQLE  
PTVQSLEMKSKTARNTPNWDFHNHEEMKGLMDENCILKADIAILRQEICTMKNDNLEKEN  
KYLKDIKIVKETNAALEKYIKLNEEMITETA FRYQQELNDLKAENTRLNAELLKEKESKK  
RLEADIESYQSRLAAATSKHSESVKTERNLKLALERTQDVS VQVEMSSAISVKDENEFL  
TEQLSETQIKFNALKDKFRKTRDSL RKKSLALETVQNNLSQTQQQTQEMKEMYQNAEAKV  
NNSTGKWNCVEERICH LQRENAWL VQQLDDVHQKEDHKEIVTNIQRGFIESGKKDFVLEE  
KSKKLMNECDHLKESLFQYEREKTEVVVSIKEDKYFQTSRKKI

>sp|Q9NRG9|AAAS\_HUMAN Aladin OS=Homo sapiens GN=AAAS PE=1 SV=1

MCSLGLFPPPPPRGQVTLYEHNNELVTGSSYESPPPDFRGQWINLPVLQLTKDPLKTPGR  
LDHGTRTAFIHHREQVWKRCINIWRDVGLFGLNEIANSEEEVF EWVKTASGWALALCRW  
ASSLHGSLFPHLSLRSEDLIAEFAQVTNWSSCCLRVFAWHPHTNKFALLDDSVRVYNA  
SSTIVPSLKHRLQRNVASLAWKPLSASVLAVACQSCILIWTLDP TSLSTRPSSGCAQVLS  
HPGHTPVTSLAWAPSGGRLLSASPVDAAIRVWDVSTETCVPLPWFRGGGVTNLLWSPDGS

KILATTPSAVFRVWEAQMWTCERWPTLSGRCQTGCWSPDGSRLLFITVLGEPLIYSLSFPE  
RCGEGKGCVGGAKSATIVADLSETTIQTPDGEERLGGEAHSMVWDPSGERLAVLMKGKPR  
VQDGKPVILLFRTRNSPVFELLPCGIIQGEPGAQQLITFHPSFNKGALLSVGWSTGRIA  
HIPLYFVNAQFPRFSPVLGRAQEPPAGGGGSIHDLPLFTETSPTSAPWDPLPGPPPVLP  
SPHSHL

>sp|Q86V21|AACS\_HUMAN Acetoacetyl-CoA synthetase OS=Homo sapiens GN=AACS PE=1 SV=1

MSKEERPGREEILECQVMWEPDSKNTQMDRFRAAVGAACGLALESYDDLYHWSVESYSD  
FWAEFWKFSGIVFSRVYDEVVDTSGKIADVPEWFKGSRLNYAENLLRHKENDRVALYIAR  
EGKEEIVKVTFEELRQEVALFAAAMRKMGVKKGDRVVGYPNSEHAVEAMLAASIGAIW  
SSTSPDFGVNGVLDLRFSQLPKLIFSVEAVVYNGKEHNHMEKLQVVKGLPDLKVVVIP  
YVSSRENIDLSKIPNSVFLDDFLATGTSEQAPQLEFEQLPFSHPLFIMFSSGTTGAPKCM  
VHSAGGTLIQHLKEHLLHGNMTSSDILLCYTTVGWMMWNWMSLLATGAAMVLYDGSPLV  
PTPNVLWDLVDRIGITVLVTGAKWLSVLEEKAMKPVETHSLQMLHTILSTGSPLKAQSYE  
YVYRCIKSSILLGSISSGTDIISCFMGHNFSLPVYKGEIQARNLGMAVEAWNEEGKAVWG  
ESGELVCTKPIPCQPTHFWNDENGKRYKAYFSKFGIWAHGDYCRINPKTGGIVMLGRS  
DGTLPNGVRFSGSEIYNIVESFEEVEDSLCVPQYNKYREERVILFLKMASGHAFQPDV  
KRIRDAIRMGLSARHVP SLILETKGIPYTLNGKKVEVAVKQIIAGKAVEQGGAFSNPETL  
DLYRDIPELQGF

>sp|Q13685|AAMP\_HUMAN Angio-associated migratory cell protein OS=Homo sapiens GN=AAMP  
PE=1 SV=2

MESESESGAAADTPPLETSLFHGDEEIIIEVVELDPGPPDPDDLAQEMEDVDFEEEEEEEG  
NEEGWVLEPQEGVGSMEGPDDSEVTFALHSASVFCVSLDPKTNTLAVTGGEDDKAFVWR  
LSDGELLFECAGHKDSVTCAGFSHDSTLVATGDMGSLKVVQVDTKEEVWSFEAGDLEWM  
EWHPRAPVLLAGTADGNTWMWKVPNGDCKTFQGPNCPATCGRVLPDGKRAVVGIEDGTIR  
IWDLKQGSPIHVLKGTEGHQGPLTCVAANQDGSILITGSVDCQAKLSATTGKVVGVFRP  
ETVASQPSLGEGESESNVESLGFCVMPLAAVGYLDGTLAIYDLATQTLRHQCQHQS  
IVQLLWEAGTAVVYTCSLDGIVRLWDARTGRLLTDYRGHTAEILDFALSKDASLVVTTSG  
DHKAKVFCVQRPDR

>sp|Q13131|AAPK1\_HUMAN 5'-AMP-activated protein kinase catalytic subunit alpha-1 OS=Homo  
sapiens GN=PRKAA1 PE=1 SV=4

MRRLSSWRKMATAEKQKHDGRVKIGHYILGDTLGVGTFGKVKVGKHELTGHKVAVKILNR  
QKIRSLDVVGKIRREIQNLKLFRRPHIIKLYQVISTPSDIFMVMEYVSGGELFDYICKNG  
RLDEKESRRLFQQILSGVDYCHRMVVRDLKPENVLLDAHMNAKIADFGLSNMMSDGEF  
LRTSCGSPNYAAPEVISGRLYAGPEVDIWSSGVILYALLCGTLPFDDDHVPTLFKKICDG  
IFYTPQYLNPSVISLLKHLQVDPMKRATIKDIREHEWFKQDLPKYLPEDPSYSSTMID  
DEALKEVCEKFECSEEEVLSCLYNRNHQDPLAVAYHLIIDNRRIMNEAKDFYLATSPADS  
FLDDHHLTRPHPERVPFLVAETPRARHTLDELNPQKSKHQGVRKAKWHLGIRSQSRPNDI  
MAEVCRAIKQLDYEWKVVNPYYLRVRKNPVTSTYSKMSLQLYQVDSRTYLLDFRSIDDE  
ITEAKSGTATPQRSGSVSNYRSCQRSDSDAEAQGSSEVSLTSSVTSLDSSPVDLTPRPG  
SHTIEFFEMCANLIKILAQ

>sp|P54646|AAPK2\_HUMAN 5'-AMP-activated protein kinase catalytic subunit alpha-2 OS=Homo  
sapiens GN=PRKAA2 PE=1 SV=2

MAEKQKHDGRVKIGHYVLGDTLGVGTFGKVKIGEHQLTGHKVAVKILNRQKIRSLDVVGK  
IKREIQNLKLFRRPHIIKLYQVISTPTDFFMVMEYVSGGELFDYICKHGRVEEMEARRLF

QQILSAVDYCHRMVVRDLKPENVLLDAHMNAKIADFGLSNMMSDGEFLRTSCGSPNYA  
APEVISGRLYAGPEVDIWSCGVILYALLCGTLPFDDEHVPTLFKKIRGGVFYIPEYLNRS  
VATLLMHMLQVDPLKRATIKDIREHEWFKQDLPSYLPEDPSYDANVIDDEAVKEVCEKF  
ECTESEVMNSLYSGDPQDQLAVAYHLIIDNRRIMNQASEFYLAASSPPSGSFMDDSAMHIP  
PGLKPHPERMPPLIADSPKARCPLDALNTTKPKSLAVKKAKWHLGIRSQSKPYDIMAENV  
RAMKQLDFEWKVVNAYHLRVRRKNPVTGNYVKMSLQLYLVDNRSYLLDFKSIDDEVVEQR  
SGSSTPQRSCSAAGLHRPRSSFDTTAESHSLSGSLTGSTLSSVSPRLGSHTMDFF  
EMCASLITTLAR

>sp|P17174|AATC\_HUMAN Aspartate aminotransferase, cytoplasmic OS=Homo sapiens GN=GOT1  
PE=1 SV=3

MAPPSVFAEVPQAQPVLFKLTADEFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQK  
IANDNSLNHEYLPILGLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFL  
ARWYNGTNNKNTPVYVSSPTWENHNAVFSAAAGFKDIRSYRYWDAEKRGDLQGFLEN  
APEFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSAYQGFASGNLERDAWA  
IRYFVSEGFEEFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP  
AQGARIVASTLSNPELFEEWTGNVKTMDRILTMRELRLARLEALKTPGTWNHITDQIGM  
FSFTGLNPKQVEYLVNEKHIIYLLPSGRINVSGLTTKNLDYVATSIHEAVTKIQ

>sp|Q7Z5M8|AB12B\_HUMAN Protein ABHD12B OS=Homo sapiens GN=ABHD12B PE=2 SV=1

MDAQDCQAAASPEPPGPPARSCVAAWDMVDRNLRYFPHSCSMLGRKIAALYDSFTSKSL  
KEHVFLPLIDMLIYFNFFKAPFLVDLKKPELKIPHTVNFYLRVEPGVMLGIWHTVPSCRG  
EDAKGKDCCWYEAALRDGNPIIVYLHGSAEHRAASHRLKLVKVLSDGGFHVLSVDYRGFG  
DSTGKPTEEGLTTDAICVYEWTKARSGITPVCLWGHSLGTGVATNAAKVLEEKGCPVDAI  
VLEAPFTNMWVASINYPLKIIYRNIPGFLRTLMDALRKDKIIFPNDENVKFLSSPLLILH  
GEDDRTVPLEYGKKLYEIARNAYRNKERVKMVIFPPGFQHNLLCKSPTLLITVRDFLSKQ  
WS

>sp|Q6PCB6|AB17C\_HUMAN Protein ABHD17C OS=Homo sapiens GN=ABHD17C PE=2 SV=2

MPEPGPRMNGFSLGELCWLFCPPCPSRIAALFLPPEPTYTVLAPEQRGAGASAPAPA  
QATAAAAAAQAPQQPEEGAGAGPGACSLHLSERADWQYSQREDAVEVFFSRTARDNRL  
GCMFVRCAPSSRYTLFSGHNAVDLGMCSFYI GLSRINCNI FSYDYSYGVSSGKPSE  
KNLYADIDAAWQALTRYGVSPENIIYGGSIGTVPTVDLASRYECAAAILHSPLMSGLR  
VAFPDTRKTYCFDAFPSIDKISKVTSPVLVIHGTEDEVIDFSHGLAMYERCPRAVEPLWV  
EGAGHNDIELYAQYLERLKQFISHelpNS

>sp|Q09428|ABCC8\_HUMAN ATP-binding cassette sub-family C member 8 OS=Homo sapiens GN=ABCC8  
PE=1 SV=6

MPLAFCGSENHSAAYRVDQGV LNNGCFVDALNVVPHVFLLFITFPILFIGWGSQSSKVHI  
HHSTWLHFPGHNLRWILTFMLLFVLVCEIAEGILSDGVTESHHHLHYMPAGMAFAVTS  
VYYHNIETSNFPKLLIALLVYWTAFITKTIKFVKFLDHAIGFSQLRFCLTGLLVILYG  
MLLLVEVNVIRVRRYIFFKTPREVKPPEDLQDLGVRFLQPFVNLLSKGTYWWMNAFIKTA  
HKKPIDLRAIGKLP IAMRALTNYQRLCEAFDAQVRKDIQGTQGARA IWQALSHAFGRRLV  
LSSTFRILADLLGFAGPLCIFGIVDHLGKENDVFQPKTQFLGVYFVSSQEFLANAYVLAV  
LLFLALLLQRTFLQASYVVAIETGINLRGAIQTKIYNKIMHLSTSNLSMGEMTAGQICNL  
VAIDTNQLMWFFFLCPNLWAMPVQIIIVGVILLYILGVSALIGA AVIILLAPVQYFVATK  
LSQAQRSTLEYSNERLKQTNEMLRGIKLLKLYAWENIFRTRVETTRRKEMTSLRAFAIYT  
SISIFMNTAIPIAAVLITFVGHSFFKEADFSPSVAFASLSLFHILVTPLFLSSVVRST



VKALVSVQKLSEFLSSAEIREEQCAPHEPTPQGPASKYQAVPLRVVNRKRPAREDCRGLT  
GPLQSLVPSADGDADNCCVQIMGGYFTWTPDGIPTLSNITIRIPRGQLTMIVGQVCGGKS  
SLLLAALGEMQKVSGAVFWSSLPDSEIGEDPSPERETATDLDIRKGPVAYASQKPWLLN  
ATVEENIIFESP FNKQRYKMVIEACSLQPDIDILPHGDQTQIGERGINLSGGQRQRISVA  
RALYQHANNVFLDDPFSSALDIHLSDHLMQAGILELLRDDKRTVVLVTHKLQYLPHADWII  
AMKDGTIQREGTLKDFQRSECLFEHWKTLMNQDQELEKETVTERKATEPPQGLSRAMS  
SRDGLLQDEEEEEEEAAESEEDDNLSSMLHQRAEIPWRACAKYLSSAGILLSSLLVFSQL  
LKHMLVAIDYWLAKWTDSTLTPAARNCSLSQECTLDQTVYAMVFTVLC SLGIVLCLV  
TSVTVEWTGLKVAKRLHRSLLNRIILAPMRFFETTP LGSILNRFSSDCNTIDQHIPSTLE  
CLSRSTLLCVSALAVISYVTPVFLVALLPLAIVCYFIQKYFRVASRDLQQLDDTTQLPLL  
SHFAETVEGLTTIRAFRYEARFQK LLEYTDSNNIASLFLTAANRWLEVRMEYIGACVVL  
IAAVTSISNSLHRELSAGLVGLGLTYALMVS NYLNMVVRNLADMELQLGAVKRIHGLLKT  
EAESYEGLLAPSLIPKNWPDQGKIQIQNLSVRYDSSLKPVLKHVNAL IAPGQKIGICGRT  
GSGKSSFSLAFFRMVDTFEGHIIIDGIDIAKLPLHTLSRLSII LQDPVLFSGTIRFNLD  
PERKCSDSLWEALEIAQLKL VVKALPGGLDAIITEGGENFSQGQRQLFCLARAFVRKTS  
IFIMDEATASIDMATENILQKVVM TAFADRTVVTIAHRVHTILSADLVIVLKRGAILFED  
KPEKLLSRKDSVFASFVRADK

>sp|P28288|ABCD3\_HUMAN ATP-binding cassette sub-family D member 3 OS=Homo sapiens GN=ABCD3  
PE=1 SV=1

MAAFSKYL TARNSSLAGAAFLLLCLLHKRRRALGLHGKSKGPPLQ NNEKEGKKERAVVD  
KVFFSRLIQILKIMVPRTFCKETGYLVLI AVMLVSRTYCDVWMIQNGTLIESGIIGRSRK  
DFKRYLLNFIAAMPLISLVNNFLKYGLNELKLCFRVRLTKYLYEEYLQAFTYYKMGNLDN  
RIANPDQLLTQDVEKFCNSVVDLYSNLSKPFLDIVLYIFKL TSAIGAQQPASMMAYLVVS  
GLFLTRLRRPIGKMTITEQKYEGEYRYVNSRLITNSEEIAFYNGNKREKQTVHSVFRKLV  
EHLNFI LFRFSMGFIDSIIAKYLATVVGYLVVSRPFLDLSHPRHLKSTHSELLEDYYQS  
GRMLLRMSQALGRIVLAGREMTLAGFTARITELMQVLKDLNHGKYERTMVSQQEKGIEG  
VQVIPLIPGAGEII IADNI IKFDHVPLATPNGDVLIRDLNFEVRSGANVLICGPNGCGKS  
SLFRVLGELWPLFGGRLTKPERGKLFYVPQRPYMTLGTLRDQVIYPDGREDQKRKGISDL  
VLKEYLDNVQLGHILEREQGWSDVQDWM DVLSGGEKQRMAMARLFYHKPQFAILDECTSA  
VSVDVEGYIYSHCRKVGITLFTVSHRKS LWKHHEY LHM DGRGNYEFKQITEDTVEFGS

>sp|P41238|ABEC1\_HUMAN C->U-editing enzyme APOBEC-1 OS=Homo sapiens GN=APOBEC1 PE=1 SV=3

MTSEKGPSTGDPTLRRRIEPWEFDVFYDPREL RKEACLLYEIKWGMSRKIWRSSGKNTTN  
HVEVNF IKKFTSERDFHPSMSCSITWFLSWSPCWECSQAIREFLSRHPGVT LVIYVARLF  
WHMDQQNRQGLRDLVNSGVTIQIMRASEYHCWRNFVNYPPGDEAHWPQYPPLWMMLYAL  
ELHCII LSLPPCLKISRRWQNH LTFRLHLQNCHYQTIPPHILLATGLIHPSVAWR

>sp|Q8WW27|ABEC4\_HUMAN Putative C->U-editing enzyme APOBEC-4 OS=Homo sapiens GN=APOBEC4  
PE=2 SV=1

MEPIYEEYLANHGTIVKPYWLSFSLDCSNCPYHIRTGEEARVSLTEFCQIFGFPYGTTF  
PQTKHLTFYELKTSSGSLVQKGHASSCTGNYIHPESMLFEMNGYLDSAIYN NDSIRHIIL  
YSNNSPCNEANHCCISKMYNFLTITYPGITLSIYFSQLYHTEMDFPASAWNREALRSLASL  
WPRVVLSPISGGI WHSVLHSFISGVSGSHVFQPI LTGRALADRH NAYEINAITGVKPYFT  
DVLLQTKRNPNTKAQEAL ESYPLNNAFPQGFFQMPSGQLQPNLPPDLRAPVV FVLVPLRD  
LPPMHMGQNPKNPRNIVRHLNMPQMSFQETKDLGRLPTGRSVEIVEITEQFASSKEADEK  
KKKKGKK

>sp|Q8WU67|ABHD3\_HUMAN Phospholipase ABHD3 OS=Homo sapiens GN=ABHD3 PE=1 SV=2

MQRLAMDRLMSRELSTLYEHQVRVGFSGVGLSLILGFSVAYAFYYLSSIAKKPQLVT  
GGESFSRFLQDHCPVVTETYYPTVWCWEGRGQTLLRPFITSKPPVQYRNELIKTADGGQI  
SLDWFDNDNSTCYMDASTRPTILLPLGTGTSKESYILHMIHLSEELGYRCVVFNNRGVA  
GENLLTPRTYCCANTEDLETVIHHVHSLYPSAPFLAAGVSMGGMLLLNYLGKIGSKTPLM  
AAATFSVGWNTFACESSELEKPLNWLLFNYYLTCLQSSVNKHRHMFVKQVDMDHVMKAKS  
IREFDKRFTSVMFGYQTIDDYYTDASPSRLKSVGIPVLCNSVDDVFSPSHAIPITAK  
QNPVALVLTSYGGHIGFLEGIWPRQSTYMDRVFKQFVQAMVEHGHELS

>sp|Q6JQN1|ACD10\_HUMAN Acyl-CoA dehydrogenase family member 10 OS=Homo sapiens GN=ACAD10  
PE=1 SV=1

MCVRSCFQSPRLQVWVRTAFLKHTQRRHQGSHRWTHLGGSTYRAVIFDMGGVLIPSPGRV  
AAEWEVQNRIPSGTILKALMEGGENGPMRFRMAEITAEGFLREFGRLCSEMLKTSVPVD  
SFFSLLTSERVAKQFPVMTEAITQIRAKGLQTAVLSNNFYLPNQKSFLPLDRKQFDVIVE  
SCMEGICKPDPRIYKLCLEQLGLQPSSEIFLDDLGTNLKEAARLGIHTIKVNDPETAVKE  
LEALLGFTLRVGPNTRPVKKTMEIPKDSLQKYLKDLLGIQTTGPLELLQFDHGQSNPTY  
YIRLANRDLVLRKKPPGTLLPSAHAIEREFRIMKALANAGVPVPNVLDLCESSVIGTPF  
YVMEYCPGLIYKDPSPGLEPSHRRAIYTAMNTVLCKIHSVDLQAVGLEDYGKQGDYIPR  
QVRTWVKQYRASETSTIPAMERLIEWLPLHLPRQQRTTVHGD FRLDNLVFHPPEEVL  
VLDWELSTLGDPLADVAYSCLAHYLPSSFPVLRGINDCDLTQLGIPAAEEYFRMYCLQMG  
LPPTENWNFYMAFSFRVAAILQGVYKRSLTGQASSTYAEQTGKLTEFVSNLAWDFAVKE  
GFRVFKEMPFTNPLTRSHTWARPQSQWCPTGSRYSYSSVPEASPAHTSRGGLVISPELS  
PPVRELYHRLKHFMQVRVYPAEPELQSHQASAARWSPSPLIEDLKEKAKAEGLWNLFLPL  
EADPEKKYGAGLTNVEYAHLCELMGTSLYAPEVCNCSAPDTGNMELLVRYGTEAQKARWL  
IPLLEGKARSCFAMTEPQVASSDATNIEASIREEDSFYVINGHKWWITGILDPRCQLCVF  
MGKTDPHAPRHRQQSVLLVPMDDTPGIKIIRPLTVYGLEDAPGGHGEVRFEHVRVPKENMV  
LGPRGFIEIAQGRLGPGRIHHCMLRIGFSERALALMKARVKSRLAFGKPLVEQGTVLADI  
AQRVEIEQARLLVLRAAHLMDLAGNKAALDIAMIKMVAPSMASRVIDRAIQAFGAAGL  
SSDYPLAQFFTWARALRFADGPDEVHRATVAKLELKHRI

>sp|Q709F0|ACD11\_HUMAN Acyl-CoA dehydrogenase family member 11 OS=Homo sapiens GN=ACAD11  
PE=1 SV=2

MKPGATGESDLAEVLPQHKFDSKSLEAYLNQHLSGFGAEREATLTIAQYRAGKSNPTFYL  
QKGFQTYVLRKKPPGSLLPKAHQIDREFKVQKALFSIGFPVPKPILYCSDTSVIGTEFYV  
MEHVQGRIFRDLTIPGLSPAERSAIYVATVETLAQLRSLNIQSLQLEGYIGAGYCKRQV  
STWTKQYQAAHQDIPAMQQLSEWLMKNLPDNDNEENLIHGD FRLDNLVFHPKECRVIAV  
LDWELSTIGHPLSDLAHFSLFYFWPRTVPMINQGSYSENSGIPSMEELISYCRCRGINS  
ILPNWNFFLALSIFKMGIAQGVYSRYLLGNNSSEDSFLFANIVQPLAETGLQLSKRTFS  
TVLPQIDTTGQLFVQTRKGQEVLIKVKHFMKQHILPAEKEVTEFYVQNNNSVDKWGKPLV  
IDKLKEMAKVEGLWNLFLPAVSGLSHVDYALIAEETGKCFAPDVFNCQAPDTGNMEVLH  
LYGSEEQKKQWLEPLLQGNITSCFCMTEPDVASSDATNIECSIQRDEDSYVINGKKWWSS  
GAGNPKCKIAIVLGRQTNTSLSRHKQHSMILVPMNTPGVKIIRPLSVFGYTDNFHGGHFE  
IHFNQVRVPATNLILGEGRGFEISQGRLGPGRIHHCMTVGLAERALQIMCERATQRIAF  
KKKLYAHEVVVAHWIAESRIAIEKIRLLTLKAAHSMDTLGSAGAKKEIAMIKVAAPRAVSK  
IVDWAIQVCGGAGVSQDYPLANMYAITRVLRLADGPDEVHLSAIATMELRDQAKRLTAKI

>sp|P45954|ACDSB\_HUMAN Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial OS=Homo sapiens GN=ACDSB PE=1 SV=1

MEGLAVRLLRGSRLLRRNFLTCLSSWKIPPHVSKSSQSEALLNITNNGIHFAPLQTFTDE  
EMMIKSSVKKFAQEIQIAPLVSTMDENSKMEKSVIQGLFQQGLMGIEVDPEYGGTGASFLS  
TVLVIEELAKVDASVAVFCEIQNTLINTLIRKHGTEEQKATYLPQLTTEKVGSFCLSEAG  
AGSDSFALKTRADKEGDYYVLNGSKMWISSAEHAGLFLVMANVDPTIGYKGITSFLVDRD  
TPGLHIGKPENKGLRASSTCPLTFENVKVPEANILGQIGHGYKYAIGSLNEGRIGIAAQ  
MLGLAQGCFDYTIPIYIKERIQFGKRLFDQGLQHVAHVATQLEAARLLTYNAARLLEAG  
KPFIKEASMAKYAYASEIAGQTTSKCIEWMGGVGTYTKDYPVEKYFRDAKIGTIYEGASNIQ  
LNTIAKHIDAAY

>sp|Q04844|ACHE\_HUMAN Acetylcholine receptor subunit epsilon OS=Homo sapiens GN=CHRNE PE=1 SV=2

MARAPLGVLLLLGLLGRGVGKNEELRLYHHLFNNYDPSRPPVREPEDVTISLKVTLTNL  
ISLNEKEETLTTSVWIGIDWQDYRLNYSKDDFGGIETLRVPSELVWLPEIVLENNIDGQF  
GVAYDANVLVYEGSVTWLPPAIYRSVCAVEVTFPFQWQNSLIQRSQTYNAEEVEFTF  
AVDNDGKTINKIDIDTEAYTENGEWAIDFCPGVIRRHHGGATDGPGETDVIYSLIIRKRP  
LFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVLLAQTVFLFLIAQKIPETSLS  
VPLLGRFLIFVMVATLIVMNCVIVLNVSRPTTHAMSPRLRHVLELLPRLLGSPPPP  
EAPRAASPPRRASSVGLLLRAEELILKKPRSELVFEGQRHRQGTWTA AFCQSLGAAPEV  
RCCVDVNFVAESTRDQEATGEEVSDWVRMGNALDNICFWAALVLFVSGSSLIFLGAYFN  
RVPDLPYAPCIQP

>sp|Q5JWF8|ACL10\_HUMAN Actin-like protein 10 OS=Homo sapiens GN=ACTL10 PE=2 SV=1

MASTALLALCSTGAFSGLAVEAGAGVCHATPIYAGHSWHQATFRLNVAGSTLSRYLRDLL  
VAANPDLLQQALPRKAITHLKKRSCYVSLDFEGDLRDPARHHPASFSVGNCCVCLSSER  
FRCPEPIFQPGLLGQAEQGLPALAFRALQKMPKTLRTRLADTVVLGGSTLFPGF AERLD  
KELEAQCRRHGYAALRPHLVAKHGRGMAVWTGGSMVASLSHFQRRWITRAMYQECGSRL  
YDVFN

>sp|094805|ACL6B\_HUMAN Actin-like protein 6B OS=Homo sapiens GN=ACTL6B PE=1 SV=1

MSGGVYGGDEVGALVFDIGSFSVRAGYAGEDCPKADFPTTVGLLAAEEGGGLEEGDKEK  
KGKIFHIDTNALHVPDGAEVMSPLKNGMIEDWECFRAILDHTYSKHKSEPNLHPVLMS  
EAPWNTRAKREKLTELMFEQYNIPAFFLCKTAVLTAFANGRSTGLVLD SGATHTTAIPVH  
DGYVLQQGIVKSPLAGDFISMQCRELFQEMAIIDIPPYMIAAKEPVREGAPPNWKKEKL  
PQVSKSWHNYMCNEVIQDFQASVLQVSDSPYDEQVAAQMPTVHYEMPNGYNTDYGAERLR  
IPEGLFDPSNVKGLSGNTMLGVGHVVTTSIGMCDIDIRGLYGSVIVTGGNTLLQGFTDR  
LNRELSQKTPPSMRLKLIASNSTMERKFSPWIGGSILASLGTQQMWISKQEYEEGGKQC  
VERKCP

>sp|P08912|ACM5\_HUMAN Muscarinic acetylcholine receptor M5 OS=Homo sapiens GN=CHRM5 PE=2 SV=2

MEGDSYHNATTVNGTPVNHQPLERHRLWEVITIAAVTAVVSLITIVGNVLMISFKVNSQ  
LKTVNYYLLSLACADLIIGIFSMNLYTTYILMGRWALGSLACDLWLALDYVASNASVMN  
LLVISFDYFYSITRPLTYRAKRTPKRAGIMIGLAWLISFILWAPAILCWQYLVGKRTVPL  
DECQIQFLSEPTITFGTAIAAFYIPVSVMTILYCRIYRETEKRTKDLADLQGSDSVTKAE  
KRKPAHRALFRSCLRCRPTLAQRERNQASWSSRRSTSTTGKPSQATGPSANWAKAEQL  
TTCSSYPSEDEDKPATDPVLQVYKSYQGKESPGEEFSAEETEETFVKAETEKSDYDTPN

YLLSPAAHRPKSQKCVAYKFRLVVKADGNQETNNGCHKVKIMPCFPVAKEPSTKGLNP  
NPSHQMTKRKRVLVKERKAAQTL SAILLAFIITWTPYNIMVLVSTFCDKCVPTLWHLG  
YWLCYVNSTVNPICYALCNRTFRKTFKMLLLCRWKKKKVEEKLYWQGN SKLP

>sp|Q8WXI4|AC011\_HUMAN Acyl-coenzyme A thioesterase 11 OS=Homo sapiens GN=ACOT11 PE=1  
SV=1

MIQNVGNHLRRLASVFSNRTSRKSALRAGNDSAMADGEGYRNPTEVQMSQLVLPCHTNQ  
RGELSVGQLLKWIDTTACL SAERHAGCPCVTASMDIYFEHTISVGQV VNIKAKVNRAFN  
SSMEVG IQVASEDL CSEKQWNVCKALATFVARREITKVKLKQITPRTEEEKMEHSVAAER  
RRMRLVYADTIKDLLANCAIQGDLESRDCSRMVPAEKTRVESVELVLP PHANHQGNTFGG  
QIMAWMEN VATIAASRLCRAHPTLKA IEMFHRGPSQVGDRLVLKAI VNNAFKHSMEVGV  
CVEAYRQEAETHRRHINS AFMTFVVL DADDQPQLLPWIRPQPGDGERRYREASARKKIRL  
DRKYIVSCKQTEVPLSVPWDPSNQVYLSYNNVSSLKMLVAKDNWVLSSEISQVRLYTLED  
DKFLSFHMEMV VHVDAQAFLLLSDLRQRPEWDKHYRSVELVQQVDEDDAIYHVTSPALG  
GHTKPQDFVILASRRKPCDNGDPYVIALRSVTLPTHRETPEYRRGETLCSGFCLWREGDQ  
LTKCCWVRVSLTELVSASFYSWGLESRSKGRRSDGWNGKLAGGHLSTLKAIPVAKINSR  
FGYLQDT

>sp|Q8N1Q8|AC015\_HUMAN Acyl-coenzyme A thioesterase THEM5 OS=Homo sapiens GN=THEM5 PE=1  
SV=2

MIRRCFQVAARLGHHRLLEAPRILPRLNPASAFGSSTDSMFSRFLPEKTDLDKYALPNA  
SWCSDMLSLYQEFLEKTKSSGWIKLPSFKSNRDHIRGLKLPSGLAVSSDKGDCRIFTRCI  
QVEGQGFEYVIFFPQTQKKSVC LFPQGSYLEGPPGFAHGGS LAAMMDETFSKTAFLAGEG  
LFTLSLNI RFKNLIPVDSLVM DVELDKIEDQKLYMSCIAHSRDQQT VYAKSSGVFLQLQ  
LEESPQ

>sp|Q99798|ACON\_HUMAN Aconitate hydratase, mitochondrial OS=Homo sapiens GN=AC02 PE=1  
SV=2

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLN  
RPLTLSEKIVYGHLD DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAV  
PSTIHCDHLIEAQVGGEKDLRRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILEN  
YAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDMAGIPWELKCPKIVGVKLTGSLSG  
WSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYN  
HRMKKYL SKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHP  
VAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLCKSQFTITPGS  
EQIRATIERDGYA QILRDLGGIVLANACGPCIGQWDRKDIKKGEKNTIVTSYNNFTGRN  
DANPETHAFVTSPEIVTALAIAGTLKFNPETDYLGTGDGKKFRLEAPDADEL PKGEFDPG  
QDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA  
GPWLKFRGHLDNISNLLIGAINIENGKANSVRNAVTFEFGVPD TARYYKKHGIRWVVI  
GDENYEGESSREHAAL EPHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHP  
VDKLTIQGLKDFTPGKPLKCI IKHPNGTQETILLNHTFNETQIEWFRAGSALNRMKELQQ

>sp|P49753|ACOT2\_HUMAN Acyl-coenzyme A thioesterase 2, mitochondrial OS=Homo sapiens  
GN=ACOT2 PE=1 SV=6

MSNKLLSPHPHSVLRSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLRQVGQIIRVP  
ARMAATLILEPAGRCWDEPVRIAVRGLAPEQPVTLRASLRDEKGALFQA HARYRADTLG  
ELDLERAPALGGSFAGLEPMGLLWALEPEKPLVRLVKRDVRTPLAVELEVLDGHDPDPGR  
LLCQTRHERYFLPPGVRREPVRVGRVRGTLFLPPEPGPFPGIVDMFGTGGGLLEYRASLL

AGKGFVAMALAYNYEDLPKTMETLHLEYFEEAMNYLLSHPEVKGPGVGLLGISKGGELC  
LSMASFLKGITAAVINGSVANVGGLTHYKGETLPPVGVNRNRIKVTKDGADIVDLNS  
PLEGPDQKSFIPVERAESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPQIICYPET  
GHYIEPPYFPLCRASLHALVGSPIIWGGEPRAHAMAQVDAWKQLQTFHKLGGHEGTIP  
SKV

>sp|Q96QF7|ACRC\_HUMAN Acidic repeat-containing protein OS=Homo sapiens GN=ACRC PE=2 SV=1  
MDGCKKELPRLQEPEEDEDYILNVQSSDDTSGSSVARRAPKRQASCILNVQSRSGDTS  
GSSVARRAPKRQASSVVVIDSDSEECHTHEEKAKLLEINSDDDESPECCHVKPAIQEPP  
IVISDDDDNDDNGNDLEVPDDNSDDSEAPDDNSDDSEAPDDNSDDSEAPDDNSDDSEAPD  
DNSDDSDVPDDNSDDSSDDNSDDSSDDNSDDSDVPDDKSDSDVPDDSSDDSDVPDDSSD  
DSEAPDDSSDDSEAPDDSSDDSEAPDDSSDDSEAPDDSSDDSEASDDSSDDSEASDDSSD  
DSEAPDDKSDSDVPEDKSDSDVPDDNSDDLEVPVPAEDLCNEGQIASDEEELVEAAAA  
VSQHDSDDAGEQDLGENLSKPPSDPEANPEVSEKLPTEEEPAPVVEQSGKRKSKTKTI  
VEPPRKRQTKTKNIVEPPRKRQTKTKNIVEPLRKRKAKTKNVSVTPGHKKRGPSSKKKPGA  
AKVEKRKTRTPKCKVPGCFLQDLEKSKKYSKGNLKRKDELVQRIYDLFNRSVCDKKLPE  
KLRIGWNNKMVKTAGLCSTGEMWYPKWRRFAKIQIGLKVCDASDRIRDTLIHEMCHAASW  
LIDGIHDSHGDAWKYYARKSNRIHPELPRVTRCHNYKINYKVHYECTGCKTRIGCYTKSL  
DTSRFICAKCKGSLVMVPLTQKDGTRIVPHV

>sp|P10323|ACRO\_HUMAN Acrosin OS=Homo sapiens GN=ACR PE=2 SV=4  
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QIFTYNSHRYHTCGGSLLNSRWLTAAHCFVGKNNVHDWRLVFGAKEITYGNNKPKAPL  
QERYVEKIIIEKYNSATEGNDIALVEITPPIISCGRFIGPGCLPHFKAGLPRGSQSCWVA  
GWGYIEEKAPRPSSILMEARVDLIDLDCNSTQWYNGRVQPTNVCAGYPVGKIDTCQGDS  
GGPLMCKDSKESAYVVVGITSWGVCARAKRPGIYTATWPYLNWIASKIGSNALRMIQSA  
TPPPPTTRPPPIRPPFSHPISAHLPWYFQPPPRPLPPRPAAQPRPPSPPPPPPPASP  
LPPPPPPPPPTPSSTTKLPQGLSFAKRLQQLIEVLKGTKYSDGKNHYDMETTELPELTST  
S

>sp|Q9NR19|ACSA\_HUMAN Acetyl-coenzyme A synthetase, cytoplasmic OS=Homo sapiens GN=ACSS2  
PE=1 SV=1

MGLPEERVRSRSGSRGQEEAGAGGRARSWSPPEVSRSAHVPSLQRYRELHRRSVVEPRE  
FWGDIAKEFYWKTPCPGPFRLRYNFDVTKGKIFIEWMKGATTNICYNVLDNRNVHEKKLGDK  
VAFYWEGNEPGETTQITYHQLLVQVCQFSNVLKQGIQKGDRAIYMPMIPELVVAMLAC  
ARIGALHSIVFAGFSSESLCERILDSSCSLLITDAFYRGEKLVNLKELADEALQKCQEK  
GFPVRCIVVKHLGRAELGMGDSTSQSPPIKRSCPVDQISWNQIDLWWHELMQEAGDEC  
EPEWCDAEDPLFILYTSGSTGKPKGVVHTVGGYMLYVATTFKYVDFHAEDVFWCTADIG  
WITGHSYVTYGPLANGATSVLFEGIPTYPDVNRLWSIVDKYKVTKFYTAPTAIRLLMKFG  
DEPVTKHSRASLQVLGTVGEPINPEAWLWYHRVVGARCPIVDTFWQTETGGHMLTPLPG  
ATPMKPGSATFPFFGVAPAILNESGEELEGEAEGYLVFKQPWPGIMRTVYGNHERFETTY  
FKKFPGYVVTGDCQRDQDGYWITGRIDMLNVSGHLLSTAEEVESALVEHEAVAEAAVV  
GHPHPVKGECLYCFVTLCDGHTFSPKLTEELKKQIREKIGPIATPDYIQNAPGLPKTRSG  
KIMRRVLRKIAQNDHDLGDMSTVADPSVISHLFSHRCLTIQ

>sp|Q53FZ2|ACSM3\_HUMAN Acyl-coenzyme A synthetase ACSM3, mitochondrial OS=Homo sapiens  
GN=ACSM3 PE=1 SV=2

MLARVTRKMLRHAKCFQRLAIFGSVRALHKDNRTATPQNFSNYESMKQDFKLGIPYFNF

AKDVLQWTDKEKAGKKPSNPAFWWINRNGEEMRWSFEELGSLSRKFANILSEACSLQRG  
DRVILILPRVPEWWLANVACLRTGTVLIPGTTQLTQKDILYRLQSSKANCIIITNDVLAPA  
VDAVASKCENLHSLKLVSENSREGWNLKELMKHASDHTCVKTKHNEIMAIFFTSGTSG  
YPKMTAHTHSSFGLGLSVNGRFLDLTPSDVMWNTSDTGWAKSAWSSVFSPWIQGACVFT  
HHLPRFEPTSILQTLISKYPITVFCAPTIVYRMLVQNDITSYKFKSLKHCVSAGEPITPDV  
TEKWRNKTGLDIYEGYQTETVLICGNFKGMKIKPGSMGKPSAFDVKIVDVNGNVLPPG  
QEGDIGIQVLPNRPFGFLFTHYVDNPSKTASTLRGNFYITGDRGYMDKGYFWFVARADDV  
ILSSGYRIGPFEVENALNEHPSVAESAASVSSPDPIRGEVVKAFFVLNPDYKSHDQEQLIK  
EIQEHVKKTTAPYKYPRKVEFIQELPKTISGKTKRNLRKKEWKTII

>sp|Q6NUN0|ACSM5\_HUMAN Acyl-coenzyme A synthetase ACSM5, mitochondrial OS=Homo sapiens  
GN=ACSM5 PE=1 SV=2

MRPWLRLVLQALRNSRAFCGSHGKPAPLPVPQKIVATWEAISLGRQLVPEYFNFAHDVL  
DVWSRLEEAGHRPPNPAFWVNGTGAEIKWSFEELGKQSRKAANVLGGACGLQPGDRMML  
VLRLPEWWLVSVACMRTGTVMIPGVTQLTEKDLKYRLQASRAKSIIITSDSLAPRVDAS  
AECPSLQTKLLVSDSRPGWLNFRELLREASTEHNCMRTKSRDPLAIYFTSGTTGAPKMV  
EHSQSSYGLGFVASGRRWVALTESDIFWNTTDTGWVKAATLFSAPNGSCIFVHELPRV  
DAKVIILNTLSKFPITTLCCVPTIFRLLVQEDLTRYQFQSLRHCLTGGEALNPDVREKWKH  
QTGVELYEGYQSETVVICANPKGMKIKSGSMGKASPPYDVQIVDDEGNVLPPGEEGNVA  
VRIRPTRPFCFFNCYLDNPEKTAASEQGDFYITGDRARMKDKGYFWFMGRNDDVINSSSY  
RIGPVEVESALAEHPAVLESASVSSPDPIRGEVVKAFFVLTPAYSSHDPALRELQEHV  
KRVTAPYKYPRKVAFFVSELPKTVSGKIQRSKLRSQEWGK

>sp|P62736|ACTA\_HUMAN Actin, aortic smooth muscle OS=Homo sapiens GN=ACTA2 PE=1 SV=1

MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGMVMGMGQKDSYVGDEA  
QSKRGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREK  
MTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRL  
DLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEK  
SYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNV  
LSGGTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWIS  
KQEYDEAGPSIVHRKCF

>sp|Q9BYX7|ACTBM\_HUMAN Putative beta-actin-like protein 3 OS=Homo sapiens GN=POTEKP PE=5  
SV=1

MDDDTAVLVIDNGSGMCKAGFAGDDAPQAVFPSIVGRPRHQGMMEGMHQKESYVGKEAQS  
KRGMLTLKYPMEHGIITNWDDMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANREKMT  
QIMFETFNTPAMYVAIQAVLSLYTSGRTTGIVMDSGDGFTHVPIYEGNALPHATLRDL  
AGRELTDYLMKILTERGYRFTTTAEQEIIVRDIKEKLCYVALDSEQEMAMAASSSSVEKSY  
ELPDGQVITIGNERFRCPEALFQPCFLGMESCGIHKTTFNSIVKSDVIDRKDLYTNTVLS  
GGTMYPGIAHRMQKEITALAPSIMKIKIIAPPKRKYSVWVGGSILASLSTFQQMWISKQ  
EYDESGPSIVHRKCF

>sp|Q08043|ACTN3\_HUMAN Alpha-actinin-3 OS=Homo sapiens GN=ACTN3 PE=1 SV=2

MMMVMQPEGLGAGEGRFAGGGGGGEYMEQEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLR  
KAGTQIENIEEDFRNGLKLMLLLEVISGERLPRPDKGKMRFHKIANVNKALDFIASKGVK  
LVSIGAEIIVDGNLKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYRNVN  
QNFHTSWKDGALCALIHRHRPDLIDYAKLRKDDPIGNLNTAFEVAEKYLDIPKMLDAED  
IVNTPKPDEKAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENKLMEEYEKLASEL

LEWIRRTVPWLENRVGEPSMSAMQRKLEDFRDYRRLHKPPRIQEKQCLEINFNTLQTKLR  
LSHRPAFMPSEGKLVSDIANAWRGLEQVEKGYEDWLLSEIRRLQRLQHLAEKFRQKASLH  
EAWTRGKEEMLSQRDYDSALLQEVRALLRRHEAFESDLAAHQDRVEHIAALAEQELNELDY  
HEAASVNSRCQAICDQWDNLGTLTQKRRDALERMEKLETTIDRLQLEFARRAAPFNNWLD  
GAVEDLQDVWLVSVEETQSLLTAHDQFKATLPEADRERGAIMGIQGEIQKICQTYGLRP  
CSTNPYITLSPQDINTKWDMMVRKLVPSCDQTLQEELARQQVNERLRRQFAAQANAIGPWI  
QAKVEEVGRLAAGLAGSLEEQMAGLRQQEQNIINYKTNIDRLEGDHQLLQESLVFDNKHT  
VYSMEHIRVGWEQLLTSIARTINEVENQVLTRDAKGLSQEQLNEFRASFNFDRKQNGMM  
EPDDFRACLISMGYDLGEVEFARIMTMVDPNAAAGVVTFFQAFIDFMTRETAETDTTEQVVA  
SFKILAGDKNYITPEELRRELPAKQAEYCIRRMVPYKSGGAPAGALDYVAFSSALYGESD  
L

>sp|Q8TDG2|ACTT1\_HUMAN Actin-related protein T1 OS=Homo sapiens GN=ACTRT1 PE=2 SV=2  
MFNPHALDVPVAVIFDNGSGLCKAGLSGEIGPRHVISSVLGHCKFNVPLARLNQKYFVGQE  
ALYKYEALHLHYPYIERGLVTGWDDMEKLWKHLFERELGVKPSQQPVLMTESLNPRIEIRE  
KLAEMMFETFSVPGFYLSNHAAALYASACVTGLVVDSDGVTCTVPIFEGYSLPHAVTK  
LCMAGRDITEHLTRLLFASGFNFPCILNKAVVNNIKEKLCYIALEPEKELRKSRGEVLGA  
YRLPDGHVIFHGDYEQVPEVLFAPDQLGIHSPGLSKMVSSSIMKCDTDIQNKLYADIVL  
SGGTTLLPGLEERLMKEVEQLASKGTPIKITASPDRCFSAWIGASIMTSMSSFKQMWVTS  
ADFKEYGTSVVQRRCF

>sp|P61163|ACTZ\_HUMAN Alpha-centractin OS=Homo sapiens GN=ACTR1A PE=1 SV=1  
MESYDVIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGP  
KAEHRGLLSIRYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEEHPVLLTEAPLNPRKN  
RERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVVLDSDGVTTHAVPIYEGFAMPHSI  
MRIDIAGRDSRFLRLYLKKEGYDFHSSSEFEIVKAIKERACYLSINPQKDETLETEKAQ  
YYLPDGSTIEIGPSRFRAPELLFRPDLIGEESEGIHEVLVFAIQSDMDLRRTLFSNIVL  
SGGSTLFKGFGRDLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILASLDTFKKMVWSK  
KEYEEDGARSIRKTF

>sp|P07311|ACYP1\_HUMAN Acylphosphatase-1 OS=Homo sapiens GN=ACYP1 PE=1 SV=2  
MAEGNTLISVDYEIFGKVQGVFFRKHTQAEKKLGLVGWVQNTDRGTVQGGQLQGPISKVR  
HMQEWLETRGSPKSHIDKANFNNEKVILKLDYSDFQIVK

>sp|P14621|ACYP2\_HUMAN Acylphosphatase-2 OS=Homo sapiens GN=ACYP2 PE=1 SV=2  
MSTAQSLKSVDYEVFGRVQGVCFRMYTEDEARKIGVVGWVKNTSKGTVTGQVQGPEDKVN  
SMKSWLSKVGSPSSRIDRTNFSNEKTISKLEYSNFSIRY

>sp|Q7Z695|ADCK2\_HUMAN Uncharacterized aarF domain-containing protein kinase 2 OS=Homo sapiens GN=ADCK2 PE=2 SV=1  
MVAPWRVSVRVCLSHLRCFELRQGLSLLRPSECPRDARLCWLLGLTPKVVS LCGDVGEG  
APDVLRRRRVRCGAAGAGPAESLPRAGPLGGVFLHLRLWLRAGALLVKFFPLLLLYPLT  
YLAPSVSTLWLHLLKATETSGPTYIKLGQWASTRRDLFSEAFCAQFSKLHVRVTPHPWT  
HTERFLRQAFGDDWGSILSFENREPVGSGCVAQVYKAYANTAFLETDSVQRLGRASCLPP  
FSHTGAVGGRELFGYLGNGRKPPENLADQSFLERLLL PKADLVGSNAGVSRAQVPGHQ  
EATNLISVAVKVLHPGLLAQVHMDLLMKIGSRVLGVLPGIKWSLPEIVEEFELMVQQ  
IDLRYEAQNLHFQVNFNRNVKAVKFTPLRPVTVREVLVETYEESVPVSSYQQAGIPVDL  
KRKIARLGINMLLMIFVDNFBHADLHPGNILVQGANGLSSSQEAQLQQADICDTLVVAV  
PSSLCPLRLVLLDAGIVAELQAPDLRNFRAVFMVVMGQGRVAELILHHARASECRDVE

GFKTEMAMLVLTQARKNTITLEKLVHVSLLSSVFKLLMTHKVKLESNFASIVFAIMVLEGL  
GRSLDPKLDILEAARPFLLTGPVCP

>sp|P35612|ADDB\_HUMAN Beta-adducin OS=Homo sapiens GN=ADD2 PE=1 SV=3

MSEETVPEAASPPPPQGQPYFDRFSEDDPEYMRLRNRAADLRQDFNLMEQKKRVTMILQS  
PSFREELEGLIQEQMKKGNNSSNIWALRQIADFMASTSHAVFPTSSMNVSMMPINDLHT  
ADSLNLAKGERLMRCKISSVYRLDLYGWAQLSDTYVTLRVSKEDHFLISPKGVSCSEV  
TASSLIKVNILGEVVEKGSSCFVDDTTGFCFLHSAIYAARPDVRCIIHLHTPATAAVSAMK  
WGLLPVSHNALLVGDMAYYDFNGEMEQEADRINLQKCLGPTCKILVLRNHGVVALGDTVE  
EAFYKIFHLQAACEIQVSALSSAGGVENILLEQEKEHRPHEVGSVQWAGSTFGPMQKSRL  
GEHEFEALMRMLDNLGYRTGYTYRHPFVQEKTCHKSEVEIPATVTAFFVEEDGAPVPALR  
QHAQKQKQEKTRWLNTPNTYLVRNVADEVQRSMGSPRPKTTWMKADEVKSSSGMPIRIE  
NPNQVFPLYTDPQEVLEMRNKIREQNRQDVKSAGPQSLLASVIAEKSRSPSTESQLMSK  
GDEDTKDDSEETVPNPFSQLTDQELEEYKKEVERKKLELDGEKETAPEEPGSPAKSAPAS  
PVQSPAKEAETKSPVSPSKSLEEGTKKTETSKAATTEPETTQPEGVVVNGREEEQTAEE  
ILSKGLSQMTTSADTDVDTSKDKTESVTSGPMSPEGSPSKSPSKKKKKFRTPSFLKKSKK  
KEKVES

>sp|Q9HOC2|ADT4\_HUMAN ADP/ATP translocase 4 OS=Homo sapiens GN=SLC25A31 PE=2 SV=1

MHREPAKKKAERLFDASSFGKDLLAGGVAAVSKTAVAPIERVKLLQVQASSKQISPE  
ARYKGMVDCLVRIPREQGFFSFWRGNLANVIRYFPTQALNFAFKDKYKQLFMSGVNKEKQ  
FWRWFLANLASGGAAGATSLCVVYPLDFARTRLGVDIGKGPEERQFKGLGDCIMKIAKSD  
GIAGLYQGFGVSVQGIIVYRASYFGAYDTVKGLLPKPKKTPFLVSFFIAQVVTTCGILS  
YPFDTVRRRMMMQSGEAKRQYKGTLD CFVKIYQHEGISSFFRGAFSNVLRGTTGGALVVLV  
YDKIKEFFHIDIGGR

>sp|Q8IUX7|AEBP1\_HUMAN Adipocyte enhancer-binding protein 1 OS=Homo sapiens GN=AEBP1 PE=1  
SV=1

MAAVRGAPLLSCLLALLALCPGGRPQTVLTDDEIEEFLEGFLSELEPEPREDDVEAPPPP  
EPTPRVRKAQAGGKPGKRPGTAAEVPPEKTKDKGKKGKKDKGPKVPKESLEGSPRPKKG  
KEKPPKATKKPKKEPPKATKKPKKEPPKATKKPKKEPPKATKKPPSGKRPPILAPSETLE  
WLP PPPSPGPEELPQEGGAPLSNNWQNPGEETHVEAREHQPEPEEETE QPTLDYNDQIE  
REDYEDFEYIRRQKQPRPPPSRRRRPERVWPEPPEEKAPAPAEERIEPPVKPLLPPLPP  
DYGDGYVIPNYDDMDYFPGPPPKPDAERQTDEEKEELKKPKKEDSSPKEETDKWAVEK  
GKDHKPRKGEEL EEWTPTEKVKCPPIGMESHRIEDNQIRASSMLRHGLGAQRGRNLNMQ  
TGATEDDYYDGAWCAEDDARTQWIEVDTRRTTRFTGVITQGRDSSIHDDFVTTFFVGFSN  
DSQTWVMYTNGYEEMTFHGNVDKDTPVLSLPEPVVARFIRIYPLTWNGSLCMRLEVLGC  
SVAPVYSYYAQNEVVATDDLDFRHHSYKDMRQLMKVVNEECPTITRTYSLGKSSRGLKIY  
AMEISDNPGHEHELGEPEFRYTAGIHGNEVLGRELLLLLMQYLCREYRDGNPRVRSVLVQDT  
RIHLVPSLNPDGYEVA AQMGSEFGNWALGLWTEEGFDIFEDFPLNSVLWGAEERKWPY  
RVPNNNLPIPERYSPDATVSTEVR AIIAWMEKNPFVLGANLNGGERLVSYPDMARTPT  
QEQLLAAAMAAARGEDEDEVSEAQETPDHAI FRWLAI SFASAHLTLTEPYRGGCQAQDYT  
GGMGIVNGAKWNPTGTINDFSYLHTNCLLSFYLGCDKFPHESELPREWENNK EALLTF  
MEQVHRGIGKGVVTDEQGIPIANATISVSGINHGVK TASGGDYWRILNPGEYRVTAHAEGY  
TPSAKTCNVDDYDIGATQCNFILARSNWKRIREIMAMNGNRPIPHIDSRPMT PQRRRLQQ  
RRLQHRRLRLRAQMRLRLRNATTLGPHTVPPTLPPAPATTLSTTIEPWGLIPPTTAGWEE  
SETETYTEVVTEFGTEVEPEFGTKVEPEFETQLEPEFETQLEPEFE EEEEEEEEEEEIATG



QAFPFTTVETYTVNFGDF

>sp|Q8TED9|AF1L1\_HUMAN Actin filament-associated protein 1-like 1 OS=Homo sapiens  
GN=AFAP1L1 PE=1 SV=2

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DLHSGPSFVESLFEEFDCDLSDLRMPEDDGEPSKGASPELAKSPRLRNAADLPPLPNK  
PPPEDYEEALPLGPGKSPEYISSHNGCSPSHSIVDGYEDADSSYPATRVNGELKSSYN  
DSDAMSSSYESYDEEEEGKSPQPRHQWPSEEASMLHVRECRICAFLLRKKRFGQWAKQL  
TVIREDQLLCYKSSKDRQPHLRALDTCISIYVPKDSRHKRHELFTQGATEVLVLALQS  
REQAEEWLKVIREVSKPVGGAEGVEVPRSPVLLCKLDLDKRLSKEKQTSDDSVGVGDNC  
STLGRRETCDHGKGGKSSLAELKGSMSRAAGRKITRIIGFSKKKTLADDLQTSSTEEV  
CCGYLNVLVNQGWKERWCRLKCNLTLYFHKDHMDLRTHVNAIALQGCEVAPGFGPRHPFAF  
RILNRQEVAILASCEMGRWLGLLLVEMGSRVTPEALHYDYVDVETLTSIVSAGRNS  
FLYARSCQNQWPEPRVYDDVPYEKMQDEEPERPTGAQVKRHASSCSEKSHRVPQVKVKR  
HASSANQYKYGKNRAEEDARRYVEKEKEKEKETIRTELIALRQEKRELKEAIRSSPGA  
KLKALEEAVATLEAQCRAKEERRIDLELKLAVKERLQQSLAGGPALGLSVSSKPKSGET  
ANKPQNSVPEQPLPVNCVSELRRKSPSIVASNQGRVLQKAKEWEMKKT

>sp|P42568|AF9\_HUMAN Protein AF-9 OS=Homo sapiens GN=MLLT3 PE=1 SV=2

MASSCAVQVKLELGHRAQVRKKPTVEGFTHDWMVFVRGPEHSNIQHFVEKVVFHLHESFP  
RPKRVCDDPPYKVEESGYAGFILPIEVYFKNKEEPRKVRFDYDLFLHLEGHPVNHLCRCE  
KLTFNNPTEDFRRKLLKAGDPNRSIHTSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS  
SSSSSSSSSSTFSKPHKLMKEHEKPSKDSREHKSFAKEPSRDHNKSSKESKKPKENK  
PLKEEKIVPKMAFKEPKMSKEPKPDSNLLTITSGQDKKAPSKRPPISDSEELSAKKRKK  
SSSEALFKSFSSAPPLILTCSADKKQIKDKSHVKMGKVKIESETSEKKKSTLPPFDDIVD  
PNDSDEVENISSKSDSEQSPASSSSSSSSSFTPSQTRQQGPLRSIMKDLHSDDNEEESD  
EVEDNDNDSEMERPVNRGSRRRVSLSDGSDSESSASSPLHHEPPPLKTNNNQILE  
VKSPIKQSKSDKQIKNGECDKAYLDELVELHRRMLTLRERHILQQIVNLIETGHFHITN  
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>sp|P51816|AFF2\_HUMAN AF4/FMR2 family member 2 OS=Homo sapiens GN=AFF2 PE=1 SV=4

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RIIPPHQDNTHPSAPMPPSVVILNSTLIHSNRKSKPEWSRDSHNPSTVLASQASGQPNK  
MQTLTQDQSQAKLEDFVYPAEQPIGEVEESNPSAKEDSNPNSSGEDAFKEIFQNSPE  
ESEFAVQAPGSPLVASSLLAPSSGLSVQNFPPGLYCKTSMGQQKPTAYVRPMDGQDQAPD  
ISPTLKPSIEFENSFGNLSFGTLDDGKPSAASSKTKLPKFTILQTSEVSLSPDPSCVEEI  
LREMTHSWPTPLTSMHTAGHSEQSTFSIPGQESQHLTPGFTLQKWNPTTRASTKSVSFK  
SMLEDDLKLSDEDDLEPVKTLTTQCTATELYQAVEKAKPRNNPVNPPLATPQPPPAVQA  
SGGSGSSSESESSSESDDTESSTTDESNEAPRVATPEPEPPSTNKWQLDKWLNKVTSQ  
NKSFIGGQNETPMETISLPPPIIQPMEVQMKVKTNASQVPAEPKERPLLSLIREKARPRP  
TQKIPETKALKHKLSTTSETVSQRTIGKKQPKKVEKNTSTDEFTWPKPNITSSTPKEKES  
VELHDPGRGRNKATAHKPAPRKEPRNIPLAPEKKKYRGPGKIVPKSREFIETDSSTSDS  
NTDQEETLQIKVLPPCIISGGNTAKSKEICGASLTSLTLMSSSGSNNNLSISNEEPTFSP  
IPVMQTEILSPLRDHENLKNLVKIDLLSRVPGHSSLHAAPAKPDHKETATKPKRQTA  
VTAVEKPAPKGKRKHKPIEVAEKIPEKKQRLEEATTICLLPPCISPAPPHKPPNTRENNS  
SRRANRRKEEKLFPPLSPLPEDPPRRRNVSGNNGPFGQDKNIAMTGQITSTKPKRTEGK

FCATFKGISVNEGDTPKKASSATITVTNTAIATATVTATAIVTTTATATATATTTTTT  
TTISTITSTITTGLMDSSHLEMTSWAALPLSSSSSTNVRPKLTFDDSVHNADYYMQEAK  
KLKHKADALFEKFGKAVNYADAALSFTECGNAMERDPLEAKSPYTMSETVELLRyamRL  
KNFASPLASDGDKKLAVLCYRCLSLLYLRMFKLKDHAMKYSRSLMEYFKQNASKVAQIP  
SPWVSNGKNTSPVSLNNVSPINAMGNCNNGPVTIPQRIHHMAASHVNITSNVLRGYEHW  
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>sp|Q9Y4W6|AFG32\_HUMAN AFG3-like protein 2 OS=Homo sapiens GN=AFG3L2 PE=1 SV=2

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AYQRFCSRPPKGFKEYFPNGKNGKASEPKVEVMGEKKESKPAATTRSSGGGGGGGKRG  
KKDDSHWWSRFQKGDIPWDDKDFRMFFLWTALFWGGVMFYLLKRSGREITWKDFVNNYL  
SKGVVDRLEVVNKRFRVTFTPGKTPVDGQYVWFNIGSVDTFERNLETQQELGIEGENR  
VPVYIAESDGSFLLSMLPTVLI IAFLLYTIIRGPAGIGRTGRMGGLFSVGETTAKVLK  
DEIDVKFKDVAGCEEAKLEIMEFVNFLKNPKQYQDLGAKIPKGAILTGPPGTGKTLLAKA  
TAGEANVPFITVSGSEFLEMFGVGPARGVDFALARKNAPCILFIDEIDAVGRKRGRGN  
FGGQSEQUENTLNQLLVEMDGFNTTNNVILAGTNRPDILDPALLRPGRFDRQIFIGPPDI  
KGRASIFKVHLRPLKLDSTLEKDKLARKLASLTPGFSGADVANCNEALIAARHLSDSI  
NQKHFEQAIERVIGGLEKKTQVLQPEEKKTVAYHEAGHAVAGWYLEHADPLLKVSIIIPRG  
KGLGYAQYLPKEQYLYTKEQLLDRMCMTLGGRVSEEIFFGRITTTGAQDDLKRVTSAYAQ  
IVQFGMNEKVGQISFDLPRQDMVLEKPYSEATARLIDDEVRIILINDAYKRTVALLTEKK  
ADVEKVALLLLEKEVLDKNDMVELLGPRPFAEKSTYEFEVEGTGSLDEDTSLPEGLKDOWN  
KEREKEKEEPPGEKVAN

>sp|Q53H12|AGK\_HUMAN Acylglycerol kinase, mitochondrial OS=Homo sapiens GN=AGK PE=1 SV=2

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KKATVFLNPAACKGKARTLFEKNAAPILHLSGMDVTIVKTDYEGQAKKLELEMENTDVII  
VAGGDGTLQEVVTGVLRRTDEATFSKIPIGFIPLGETSSLSHTLFAESGNKVQHITD  
AIVKGETVPLDLVLIQKEKEQPVFAMTGLRWGSFRDAGVKVSKYWYLGPLKIKAAHFFST  
LKEWPQTHQASISYTGPTERRPPNEPEETPVQRPSLYRRILRRLASywaQPQDALSQEVSP  
EVWKDVQLSTIELSITTRNNQLDPTSKEDFLNICIEPDTISKGDFITIGSRKVRNPKLHV  
EGTECLQASQCTLLIPEGAGGSFSDSEEYEAMPVEVKLLPRKLQFFCDPRKREQMLTSP  
TQ

>sp|Q9H9G7|AGO3\_HUMAN Protein argonaute-3 OS=Homo sapiens GN=AGO3 PE=1 SV=2

MEIGSAGPAGAQPLLMPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLVEVDIKPDKCPR  
RVNREVVDSDMVQHFVTFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRP  
FKVSIKFVSRVSWHLLHEVLTGRTLPEPLELDKPISTNPVHAVDVVLRHLPSMKYTPVGR  
SFFSAPEGYDHLPGGGRVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPVIFMCEVLD  
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DAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIIIVILPGKTPVYAEVKRVGDTL  
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KPTRIIFYRDGVSEGFRQVLYELLAIREACISLEKDYQPGITYIVVQKRHHTRLFCAD  
RTERVGRSGNIPAGTTVDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADEL

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>sp|060241|AGRB2\_HUMAN Adhesion G protein-coupled receptor B2 OS=Homo sapiens GN=ADGRB2  
PE=1 SV=2

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SYLAVIGMRTRLVRKRFLCLGWLPALVAVSVGFTRTKGYGTSSYCWLSLEGGLLYAF  
VGPAAVIVLVNMLIGIIVFNKLMARDGISDKSKKQRAGSERCPWASLLLPCSACGAVPSP  
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VHCFLRREVQDVVKCQMVCRADESESDPSCKNGQLQILSDFEKDVLACQTVLFKEVN  
TCNPSTITGTLSRLSLDEDEEPPKSCLVGPEGSLSFSPLPGNILVPMAASPLGEPPPPQE  
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TPRRAAKTVAHTEGYPSFLSVDHSGGLGPAYGSLQNPYGMTFQPPPPTPSARQVPEPGE  
RSRTMPRTVPGSTMKMSLERKKLRYSDLDFEKMHTKRHSELYHELNQKFHTFDYRYS  
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>sp|060242|AGRB3\_HUMAN Adhesion G protein-coupled receptor B3 OS=Homo sapiens GN=ADGRB3  
PE=1 SV=2

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NLTREAKRPPKEEFMMGDHTIKSQRPRSVHEKRVPEQADA AKFMAQTGESGVEEWSQW  
STCSVTCGQGSQVRTRTCVSPYGTHTCSGPLRESVCNN TALCPVHGVEEWSPWSLCSFT  
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TCQGAVITGQCEGTGEEVRRCNEQRC PAPYEICPEDYLSMVMWKRT PAGDLAFNQ CPLN  
ATGTTSRRCSLSLHGVAFWEQPSFARCISNEYRHLQHSIKEHLAKGQRMLAGDGMSQVTK  
TLDDLQQRKNFYAGDLLMSVEILRNVTDTFKRASYPASDGVQNFQIVSNLLDEENKEK

WEDAQQIYPGSIELMQVIEDFIHIVGMGMMDFQNSYLMTGNVVASIQKLPAASVLT DINF  
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ALWRYIRSERSIILINFCLSIISSNILILVGQTQTHNKSICTTTTAFLHFFFLASF CWVL  
TEAWQSYMAVTGKIRTRLIRKRFLCLGWGLPALVVATSVGFTRTKGYGTDHYCWLSLEGG  
LLYAFVGPAAAVVLNMVIGILVFNKLVSRDGI LDKKLKHRAQMSEPHSGLTLKCAKCG  
VVSTTALSATTASNAMASLWSSCVVLP LLALTWMSAVLAMTDKRSILFQILFAVFD SLQG  
FVIVMVHCILRREVQDAFRCLRNCQDPINADSSSSFPNGHAQIMTDFEKDV DIACRSVL  
HKDIGPCRAATITGTL SRISLNDDEEEKGTNPEGLSYSTLPGNVISKV I IQQPTGLHMPM  
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RTAVKNFMASELDDNAGLSRSETGSTISMSSLERRKSRYSDLDFEKM HTRKRHMELFQE  
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>sp|Q6QNK2|AGRD1\_HUMAN Adhesion G-protein coupled receptor D1 OS=Homo sapiens GN=ADGRD1  
PE=1 SV=1

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IPSAYGGQVISNGFKVCSSGGRGSVELYTRDNSMTWEASFPPGPYWTHVLF TWKSKEGL  
KVYVNGTLSTSDPSGKVS RDYGESNVNLVIGSEQDQAKCYENGAFDEFI I WERALTPDEI  
AMYFTAAIGKHALLSSTLPSLFMTSTASPVMP T DAYHP I ITNLTEERKTFQSPGVILSYL  
QNVSLSLPSKSLSEQTALNLTKTFLKAVGE ILLLPGWIALSEDSAVVLSLIDTIDTVMGH  
VSSNLHGSTPQVTVEGSSAMAEFSVAKILPKTVNSSHYRFP AHGQSFIQIPHEAFHRHAW  
STVVGLLYHSMHYLNNI WPAHTKIAEAMHHQDCLLFATSHLISLEVSP PPTLSQNLSGS  
PLITVHLKHRLTRKQHSEATNSSNRV FVYCAFLDFSSGEGVWSNHGCALTRGNLTYSVCR  
CTHLTNFAILMQVVPLELARGHQVALSSISYVGCSLSVLCLVATLVTF AVLSSVSTIRNQ  
RYHIHANLSFAVLVAQVLLISFRLEPGTTPCQVM AVLLHYFFLSAFAWMLVEGLHLYSM  
VIKVFGESESKHRYYYGMGWGFPL LICIIISLSFAMDSYGTSNNCWLSLASGAIWAFVAPA  
LFVIVVNIGILIAVTRVISQISADNYKIHGDPSAFKLTAKAVAVLLPILGTSWVFGVLAV  
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>sp|Q14246|AGRE1\_HUMAN Adhesion G protein-coupled receptor E1 OS=Homo sapiens GN=ADGRE1  
PE=2 SV=3

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VPGKPGNFSCDINECLTSSVCPEHSDCVNSMGSYSCSQVGFISRNSTCEDV DECADPR  
ACPEHATCNNTVGNYSFCFCNPGFESSGHL SFQGLKASCEDIDECTEMCPINSTCTNTPG  
SYFCTCHPGFAPSNGQLNFTDQGVECRD IDECRQDPSTCGPNSICTNALGSYSCGCIAGF  
HPNPEGSQKDG NFSCQRVLFKCKEDVIPDNKQIQQCQEGTAVKPAYVSFCAQINNIFSVL  
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SANITPAVRTEYLDIESKVINKECSEENVTL DLVAKGDKMKIGCSTIEESESTETTGVAF  
VSFVGMESVLNERFFKDHQAPLTTSEIKLKMNSRVVGGIMTGEKKDGFSDPIIYTLENIQ  
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SLYIISHVGIIISLVCLVLAIAITFLCRSIRNHNTYLHLHLCVCLLLAKTLFLAGIHKTD  
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PMLVVVISASVQPQGYGMHNRCLNTETGFIWSFLGPVCTVIVINSLLLTWTLWILRQRL  
SSVNAEVSTLKDTRLLTFKAFQFLFILGCSWVLGIFQIGPVAGVMAYLFTIINSLQGAFI  
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>sp|Q9UHX3|AGRE2\_HUMAN Adhesion G protein-coupled receptor E2 OS=Homo sapiens GN=ADGRE2  
PE=1 SV=2

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LNNVGSYQCRCRPGWQPIPGSPNGPNNTVCEDVDECSSGQHQCDSSTVCFNTVGSYSCRC  
RPGWKPRHGIPNNQKDTVCEDMFTSTWTPPPGVHSQTLRFFDKVQDLGRDYKPGLANNT  
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TELSLEVQKQVDRSVTLRQNAVMQLDWNQAQKSGDPGPSVVGLVSIIPGMGKLLAEAPLV  
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LCVFEHGQNGCGHWATTGCSTIGTRDTSTICRCTLSSFAVLMAHYDVQEEDPVLTVIT  
YMGLSVSLCLLLAALTFLLCIAIQTSTSLHLQLSLCLFLAHLFLVAIDQTGHKVLCS  
IIAGTLHYLYLATLWMLLEALYLFLTARNLTVVNYSSINRFMKKLMFPVGYGVPVAVTVA  
ISAASRPHLYGTPSRCWLQPEKGIWGLGPVCAIFSVNLVFLVTLWILKNRLSSLNSE  
VSTLRNTRMLAFKATAQLFILGCTWCLGILQVGPAARVMAYLFTIINSLQGVFIFLVYCL  
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>sp|Q86SQ3|AGRE4\_HUMAN Putative adhesion G protein-coupled receptor E4P OS=Homo sapiens  
GN=ADGRE4P PE=5 SV=1

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SGVKPGFGKQLPGDKRTKHICVWEGSEGGWSTEGCSHVHNGSYTKCKCFHLSSFAVLV  
ALAPKEDPVLTVITQVGLTISLLCLFLAILTFLCRPIQNTSTSLHLELSLCLFLAHLFL  
LTGINRTEPEVLCSIIAGLLHFLYLACFTWMLLEGLHLFLTVRNKLVANYTSTGRFKKRF  
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>sp|Q5T601|AGRF1\_HUMAN Adhesion G-protein coupled receptor F1 OS=Homo sapiens GN=ADGRF1  
PE=1 SV=2

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NCYLHTAGALPSCCHLNNLSQSVNFCERTKIWGTFKINERFTNDLLNSSSAIYSKYANG  
IEIQLKKAYERIQGFESVQVTQFRNGSIVAGYEVVVGSSASELLSAIEHVAEKAKTALHK  
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ASHFRVSNSTMEDVISIADNINLSASVTNWTVLLREEKYASSRLELTLENISTLVPPTAL  
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VFFTHFFYLSLFFWMLMLGILLAYRIILVFHHMAQHLMMAVGFC LGYGCPLIISVITIAV  
TQPSNTYKRKDVCLNWSNGSKPLLA FVVPALAI VAVNFVVLLVLTKLWRPTVGERLSR  
DDKATIIRVGKSLILTPLLGLTWGFGIGTIVDSQNLAWH VIFALLNAFQGFFILCFGIL  
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>sp|Q8IZF5|AGRF3\_HUMAN Adhesion G-protein coupled receptor F3 OS=Homo sapiens GN=ADGRF3  
PE=2 SV=1

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SALVS VYVHLD FPDKTWPPELSRTLTLP AASASSSPRPLLTGLRLTTECNVNHKGNFYCA  
CLSGYQWNTSICLHYPPCQSLHNHQPCGCLVFSHPEPGYCQLLPPGSPVTCLPAVPGILN  
LNSQLQMPGDTLSLT LHLSEATNLSWFLRHPGSPSPILLQPGTQVSVTSSHGQAALSVS  
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STNLAYTAAWSPGEGSKASSFNESGSCFVLAVQRCPMADTTYACDLQSLGLAPLRVPIS  
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FAFSLPNVLLQSQLFGPTFPADYSISFPTRPPLQAQIPRHSLAPLVRNGTEISITSLVLR  
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SILALLVCLGVYWLVRVVVRNKISYFRHAALLNMVFCLLAADTCFLGAPFLSPGPRSP  
CLAAAF LCHFLYLATFFWMLAQALVLAHQLLFVFHQLAKHRVPLMVLLGYLCPLGLAGV  
TLGLYLPQGQYLREGE CWLDGKGGALYTFVGPVLA IIGVNGLVLAMAMKLLRPSLSEGP  
PAEKRQALLGVIKALLITPIFGLTWGLGLATLLEEVS TVPHYIFTILNTLQG VFILLFG  
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>sp|Q86Y34|AGRG3\_HUMAN Adhesion G protein-coupled receptor G3 OS=Homo sapiens GN=ADGRG3  
PE=1 SV=1

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SCNVENLQRYWLN YEAHLMKEGLTQKVNT PFLKALVQNLSTNTAEDFYFSLEPSQVPRQV  
MKDEDKPPDRVRLPKSLFRSLPGNRSVVR LAVTILDIGPGTLFKGPRLGLGDGSGVLNRR  
LVGLSVGQMHVTKLAEPLEIVFSHQRPPPNMTLTCVFDVTKGTTGDWSSEGCSTEVRPE  
GTVCCCDHLTFFALLRPTLDQSTVHILTRISQAGCGVSMIFLAFTII ILYAFLRLSRERF  
KSEDAPKIHVALGGSFLNLNLAFLVNVGSGSKGSDAACWARGAVFHYFLLCAFTWMGLEA  
FHLYLLAVRVFNTYFGHYFLKLSLVGWGLPALMVIGTGSANSYGLYTIRDRENRTSLELC  
WFREGTMYALYITVHG YFLITFLFGMVVLALVWKIFTLSRATAVKERGKNRKKVLTLL  
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>sp|Q8IZF6|AGRG4\_HUMAN Adhesion G-protein coupled receptor G4 OS=Homo sapiens GN=ADGRG4  
PE=2 SV=2

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SLYYFQLWDHILENEEFMKCLDGNIVSWEEDVWL NKI IPTVDRTLRCFVPENMTIQEKS  
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DSVFPRNQTAFLATDMKIAFTVHSLTLPTRLIETTPAPRTAETELTSTNFQDVS LPRV  
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TATTEVRESWLLTKLVKTTPRSSYNEMTFNFNHTYVAHWTSETSEGISAGSPTSGSTH  
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HTLVCSKPPPDNIPPASSTHVISTTSTPEATQPI SQVEETSTYALSFPTYTFSGGGVASL  
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AVVTYIAFHKL RKDYPAKILINLCTALLMLNLVFLINSWLSSFQKVGVCITA AVALHYFL  
LVSFTWMGLEAVHMYLALVKVFNIYIPNYILKFCLVGWGIPAIMVAITVSVKKDLYGTLS  
PTTPFCWIKDDSI FYISVVAYFCLIFLMNLSMFCTVLVQLNSVKSQIQKTRRKMI LHDLK

GTMSLTFLGLTWGFAFFAWGPMRNFLLYLFAIFNTLQGFFIFVFCVMKESVREQWQIH  
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>sp|Q86SQ4|AGRG6\_HUMAN Adhesion G-protein coupled receptor G6 OS=Homo sapiens GN=ADGRG6  
PE=1 SV=3

MMFRSDRMWSCHWKWKPSPLLFLFALYIMCVPHSVWGCANCRVLSNPSGTFTSPCYPND  
YPNSQACMWTLRAPTYIIQITFNDFDIEEAPNCIYDSLSDNGESQTKFCGATAKGLSF  
NSSANEMHVSFSSDFSIQKKGFNASYIRVAVSLRNQKVILPQTS DAYQVSVAKSISIPEL  
SAFTLCFEATKVGHESDWTAFSYSNASFTQLLSFGKAKSGYFLSISDSKCLLNNALPVK  
EKEDIFAESFEQLCLVWNSLGSIGVNFKRNYETVPCDSTISKVIPGNGKLLLGSNQNEI  
VSLKGDIIYNFRLWNFTMNAKILSNLSCNVKGNVVDWQDNDFWNI PNALKAESNLSCGSYL  
IPLPAAELASCADLTLCQATVNSPSTTPPTVTNMPVTNRIDKQRNDGIIYRISVVIQN  
ILRHPEVKVQSKVAEWLNSTFQNWNTVYVVNISFHL SAGEDKIKVKRSLEDEPRLVLWA  
LLVYNATNNTNLEGKIIQQKLLKNNESLDEGLRLHTVNVRLGHCLAMEEPKGYWPSIQ  
PSEYVLPCKPKGFSASRICFY NATNPLVTYWGPDVSNCLKEANEVANQILNL TADGQN  
LTSANITNIVEQVKRIVNKEENIDITLGSTLMNIFSNILSSSDS DLESSEALKTIDEL  
AFKIDLNSTSHVNITTRNLALSVSLLPGTNAISNFSIGLPSNNESYFQMDFESGQVDPL  
ASVILPPNLENLSPEDSVLVRRAQFTFFNK TGLFQDVGPRKTLVSYYMACSIGNITI Q  
NLKDPVQIKIKHTRTQEVHHPICAFWDLNKNKSFGGWNTSGCVAHRSDASETVC LCNHF  
THFGVLM DLP RSASQLDARNTKVLTFISYIGCGISAIFSAATLLTYVAF EKLRRDYP SKI  
LMNLSTALLFLNLLFLLDGWITSFNVDGLCIAVAVLLHFFLLATFTWGLEA IHMYIALV  
KVFN TYIRRYILKFCIIGWGLPALVVS VVLASRNNNEVYGKESYGKEKGEFCW IQDPVI  
FYVTCAGYFGVMFFLNIAMFIVMVQICGRNGKRSNRTLREEVLRNLR SVVSLTFL LGMT  
WGFAFFAWGPLNIPMYLFSIFNSLQGLFIFIFHCAMKENVQKQWRQHLCCGRFRLADNS  
DWSKTATNIIKKSSDNLGKLSSSSIGSNSTYLTSKSKSSSTTYFKRNSHTDNVSYEHSF  
NKSGSLRQCFHGQVLVKTGPC

>sp|O00468|AGRIN\_HUMAN Agrin OS=Homo sapiens GN=AGRN PE=1 SV=5

MAGRSHPGPLRPLLPLLVAAACVLPGAGGTCPERALERREEEANVLTGTVEEILNVDPV  
QHTYSCKVRVWRYLKGD LVARESLLDGGNKVVISGFGDPLICDNQVSTGDTRIFFVNPA  
PPYLWPAHKNELMLNSSLMRITLRLNEEVEFCVEDKPGTHFTVPVPTPPDACRGMLCGFG  
AVCEPNAEGPGRASCYCKKSPCPSV VAPVCGSDASTYSNECELQRAQCSQQRRI RL LSRG  
PCGSRDPCSNVTCFSGSTCARSADGLTASCLCPATCRGAPEGTVCGSDGADYPGECQLLR  
RACARQENVFKFDGPDPCQ GALPDPSRSCRVPNPRTRPEMLLRPESCPARQAPVCGDD  
GVTYENDCVMGRSGAARGLLQKVRSGQCQGRDQCPEPCRFAVCLSRGRPRCSCDRVT  
CDGAYRPVCAQDGR TYDSDCWRRQAE CRQRAIPSKHQGPCDQAPSPCLGVQCAFGATCA  
VKNGQAACECLQACSSLYDPVCGSDGVTYGSACELEATACTLGREIQVARKGPCDRCGQC  
RFGALCEAETGRCVCPSECV ALAQPVCGSDGHTYTPSECMLHVHACTHQISLHVASAGPCE  
TCGDAVCAFGAVCSAGQCVCPRCEHPPPGPVCGSDGVTYGSACELREAACLQQTQIEEAR  
AGPCEQAECGSGSGSGEDGDCEQELCRQRGGI WDEDEDGPCVCD FSCQSVPGSPVCGS  
DGVTYSTECELKKARCESQRGLYVAAQACRGPTFAPLPPVAPLHCAQTPYGCCQDNITA  
ARGVGLAGCPSACQCNPHGSYGGTCDPATGQCSCRPGVGGLRCDRCEPGFWNFRGIVTDG  
RSGCTPCSCDPQGA VRDDCEQMTGLCCKPGVAGPKCGQCPDGRALGPAGCEADASAPAT  
CAEMRCEFGARCVEESGSAHVC PMLTCPEANATKVCSDGVTYGNECQLKTIACRQGLQ  
ISIQSLGPCQEAVAPSTHPTSASVTVTTPGLLLSQALPAPPGALPLAPSSTAHSQTTPPP



SSRPRTTASVPRTTVWPVLTVPPTAPSPAPSLVASAFGESGSTDGSSDEELSGDQEASGG  
GSGGLEPLEGSSVATPGPPVERASCYNSALGCCSDGKTPSLDAEGSNCPATKVFQGVLEL  
EGVEGQELFYTPEMADPKSELFGETARSIESTLDDLFRNSDVKKDFRSVRLRDLGPGKSV  
RAIVDVHFDPTTAFRAPDVARALLRQIQVSRRRSLGVRRLQEHVRFMDFDWFPFITGA  
TSGAIAAGATARATTASRLPSSAVTPRAPHPSHTSQPVAKTTAAPTTRRPPTTAPSRVPG  
RRPPAPQQPPKPCDSQPCFHGGTCQDWALGGGFTCSCPAGRGGAVCEKVLGAPVPAFEGR  
SFLAFPTLRAYHTLRALALEFRALEPQGGLLYNGNARGKDFLALALLDGRVQLRFDTGSGP  
AVLTSAPVPEPGQWHRELSRHWRRTLSVDGETPVLGESPSGTDGLNLDLDFVGGVPE  
DQAAVALERTFVGAGLRGCIIRLLDVNNQRLELGIGGAATRGSGVGECGDHPCLPNPCHG  
GAPCQNL EAGRFHCQCPPGRVGPTCADEKSPCQPNPCHGAAPCRVLPEGGAQCECPLGRE  
GTFCQTASGQDGSGPFLADFNGFSHLELRGLHTFARDLGEKMALEVFLARGPSGLLLYN  
GQKTDGKGDFVSLALDRRLEFRYDLGKGA AVIRSREPVTLGAWTRVSLERNRKGALRV  
GDGPRVLGESPKSRKVPHTVLNLKEPLYVGGAPDFSKLARAAVSSGFDGAIQLVSLGGR  
QLLTPEHVLQRVDVTSFAGHPCTRASGHPCLNGASCVPREAAYVCLCPGGFSGPHCEKGL  
VEKSAGDVTDLAFDGRTFVEYLVNAVTESELANEIPVPETLD SGALHEKALQSNHFELSLR  
TEATQGLVLWSGKATERADYVALAIVDGHQLSYNLGSQPVVLRSTVPVNTNRWLRVVAH  
REQREGSLQVGN EAPVTGSSPLGATQLD TDGALWLGGLPELPVGPALPKAYGTGFVGC LR  
DVVVG RHPLHLL EDAVTKPELRPCPTP

>sp|P14060|3BHS1\_HUMAN 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1  
OS=Homo sapiens GN=HSD3B1 PE=1 SV=2

MTGWSCLVTGAGGFLGQRIIRLLVKEKELKEIRVLDKAFGP ELREEFSKLQNKTKLTVLE  
GDILDEPFLKRACQDVSVI IHTACIIDVFGVTHRESIMNVNVKGTQLLLEACVQASVPVF  
IYTSSIEVAGPNSYKEIIQNGHEEEPLENTWPAPYPHSHKLA EKAVLAANGWNLKNGGTL  
YTCALRPMYIYEGSRFLSASINEALNNNGILSSVGKFSTVNPVYVGNVAWAHILALRAL  
QDPKKAPSIRGQFYIISDDTPHQSYDNLNYTLSKEFGLRLDSRWSFPLSLMYWIGFLEI  
VSFLLRPIYTYRPPFN RHIVTLSNSVFTFSYKKAQRDLAYKPLYSWEEAKQKTVEWVGS L  
VDRHKETLKSKTQ

>sp|P26439|3BHS2\_HUMAN 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2  
OS=Homo sapiens GN=HSD3B2 PE=1 SV=2

MGWSCLVTGAGGLGQRIVRLLVEEKELKEIRALDKAFRPELREEFSKLQNR TKLTVLEG  
DILDEPFLKRACQDVSVVIHTACIIDVFGVTHRESIMNVNVKGTQLLLEACVQASVPVFI  
YTSSIEVAGPNSYKEIIQNGHEEEPLENTWPTPYPSKKLA EKAVLAANGWNLKNGDTLY  
TCALRPTYIYEGGPFLSASINEALNNNGILSSVGKFSTVNPVYVGNVAWAHILALRALR  
DPKKAPSVRGQFYIISDDTPHQSYDNLNYILSKEFGLRLDSRWSLPLTLMYWIGFLEVV  
SFLLSPIYSYQPPFN RHVTLSNSVFTFSYKKAQRDLAYKPLYSWEEAKQKTVEWVGS LV  
DRHKETLKSKTQ

>sp|Q9H2F3|3BHS7\_HUMAN 3 beta-hydroxysteroid dehydrogenase type 7 OS=Homo sapiens  
GN=HSD3B7 PE=1 SV=2

MADSAQAQKLVLVTGGCGFLGEHVVRMLLQREPR LGELRVFDQHLGPWLEELKTGPVRV  
TAIQGDVTQAHEVA AAVAGAHVVIHTAGLVDVFGRASPKTIHEVNVQGTRNVIEACVQTG  
TRFLVYTSSMEVVGPN TKGHPFYRGNE DTPYEAVHRHPYPCSKALAEWLVL EANGRKVRG  
GLPLVTCALRPTGIYGEHQIMRDFYRQGLRLGGWLFRAIPASVEHGRVYVGNVAWMHVL  
AARELEQRATLMGGQVYFCYDGSPYRSYEDFNMEFLGPCGLRLVGARPLL PYWLLVFLAA  
LNALLQWLLRPLVLYAPLLNPYTLAVANTTFTVSTDKAQRHFGYEPLFSWEDSRTRTILW

VQAATGSAQ

>sp|P31937|3HIDH\_HUMAN 3-hydroxyisobutyrate dehydrogenase, mitochondrial OS=Homo sapiens  
GN=HIBADH PE=1 SV=2

MAASLRLLGAASGLRYWSRRLRPAAGSFAAVCSRSVASKTPVGFIGLGNMGNPMAKNLMK  
HGYPLIIYDVFPDACEFQDAGEQVVSSPADVAEKADRIITMLPTSINAIEAYSGANGIL  
KKVKKGSLLIDSSTIDPAVSKELAKEVEKMGAVFMDAPVSGGVGAARSGNLTFMVGGVED  
EFAAAQELLGCMGSNVVYCGAVGTGQAAKICNNMLLAISMIGTAEAMNLGIRLGDPKLL  
AKILNMSSGRCWSSDTYNPVPVGMVGVPSSANNYQGGFGTTLMAKDLGLAQDSATSTKSPI  
LLGSLAHQIYRMMCAKGYSKKDFSSVFQFLREEETF

>sp|P28222|5HT1B\_HUMAN 5-hydroxytryptamine receptor 1B OS=Homo sapiens GN=HTR1B PE=1 SV=1  
MEEPGAQCAPPAPAGSETWVPQANLSSAPSQNCQSAKDYYQDSISLPWKVLLVMLLALIT  
LATTLSNAFVIATVYRTRKLHTPANYLIASLAVTDLLVSILVMPISTMYTVTGRWTLGQV  
VCDFWLSSDITCCTASILHLCVIALDRYWAITDAVEYSAKRTPKRAAVMIALVWVFSISI  
SLPPFFWRQAKAEVEVSECVVNTDHILYTVYSTVGAFYFPTLLLIYGRIVVEARSRL  
KQTPNRTGKRLTRAQLITDSPGSTSSVTSINSRVPDVPSESGSPVYVNVQKVRVSDALLE  
KKKLMAARERKATKTLGIILGAFIVCWLPFFIISLVMPICKDACWFHLAIFDFFTWLGYL  
NSLINPIIYTMNEDFKQAFHKLIRFKCTS

>sp|P30939|5HT1F\_HUMAN 5-hydroxytryptamine receptor 1F OS=Homo sapiens GN=HTR1F PE=2 SV=1  
MDFLNSSDQNLTSSELLNRMPKILVSLTSLGLALMTTINSLVIAAIIVTRKLHHPANY  
LICSLAVTDFLVAVLVMPFSIVYIVRESWIMGQVVCIDIWLSVDITCCTCSILHLSAIALD  
RYRAITDAVEYARKRTPKHAGIMITIVWIIISVFISMPLFWRHQGTSRDDECIKHDHIV  
STIYSTFGAFYIPLALILILYYKIYRAAKTLYHKRQASRIAKEEVNGQVLLESGEKSTKS  
VSTSYVLEKSLSDPSTDFDKIHSTVRSRSEFKHEKSWRRQKISGTRERKAATTLGLILG  
AFVICWLPFFVKELVVNVCDKCKISEEMSNFLAWLGYLNSLINPLIYTFNEDFKKAFQK  
LVRRCR

>sp|P28223|5HT2A\_HUMAN 5-hydroxytryptamine receptor 2A OS=Homo sapiens GN=HTR2A PE=1 SV=2  
MDILCEENTSLSTNSLMQLNDDTRLYSNDFNSGEANTSDAFNWTVDSERNTLSCEGC  
LSPSCLSLHLQEKNSALLTAVVILTIAGNILVIMAVSLEKKLQATNYFLMSLAID  
MLLGLVMPVSMILTILYGYRWPLPSKLCVWIYLDVLFSTASIMHLCAISLDRYVAIQNP  
IHHSRFSNRTKAFLKIIAVWTISVGISMPIPVFGLQDDSKVFKEGSCLLADDNFVLIGSF  
VSFFIPLTIMVITYFLTIKSLQEATLCVSDLGTRAKLASFSFLPQSSLSEKLFQRSIH  
REPGSYTGRRTMQSISNEQKACKVLGIVFFLFVVMWCPFFITNIMAVICKESCNEVDIGA  
LLNVFVWIGYLSSAVNPLVYTLFNKTYRSAFSRYIQCQYKENKKPLQLILVNTIPALAYK  
SSQLQMGQKKNKQDAKTDDNDCSMVALGKQHSEEASKDSDGVNEKVSCV

>sp|Q9BXI3|5NT1A\_HUMAN Cytosolic 5'-nucleotidase 1A OS=Homo sapiens GN=NT5C1A PE=1 SV=1  
MEPGQPREPQEPREPGGAETAAAPVWEEAKIFYDNLAPKKKPKSPKPQNAVTVIASSRA  
LFRMDEEQQIYTEQGVVEEYVRYQLEHENEPFSPGPAFPFVKALEAVNRRLRELYPDSEDV  
FDIVLMTNNAHQGVRLINSINHYDLFIERFCMTGGNSPICYLKAYHTNLYLSADAQKVR  
EAIDEGIAAATIFSPSRDVVSQSQLRVAFDGDVLFSDSERIVKAHGLDRFFEHEKAH  
ENKPLAQGPLKGFLEALGRLQKKFYSKGLRLECPRTYLVARSAAASSGARALKTLRSWG  
LETDEALFLAGAPKGPLLEKIRPHIFFDDQMFHVAGAQEMGTVAHVYPYGAQTPRRTAP  
AKQAPSAQ

>sp|P56378|68MP\_HUMAN 6.8 kDa mitochondrial proteolipid OS=Homo sapiens GN=MP68 PE=1 SV=1  
MLQSIKNIWIPMKPYTKVYQEIWIGMGLMGFIVYKIRAADKRSKALKASAPAGHH

>sp|P36639|8ODP\_HUMAN 7,8-dihydro-8-oxoguanine triphosphatase OS=Homo sapiens GN=NUDT1  
PE=1 SV=3

MYWSNQITRRLLGERVQGFMSGISPPQMGPEGSWSGKNPGTMGASRLYTLVLVLQPQRVL  
LGMKKRGFGAGRWNFGGKQVEGETIEDGARRELQEESGLTVDALHKVGQIVFEFVGEPE  
LMDVHVFCDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDSYWFPLLLQKKKFHGYFKF  
QGQDTILDYTLREVDTV

>sp|P02763|A1AG1\_HUMAN Alpha-1-acid glycoprotein 1 OS=Homo sapiens GN=ORM1 PE=1 SV=1

MALSWVLTVLSLLPLLEAQIPLCANLVPVPITNATLDQITGKWFYIASAFRNEEYNKSVQ  
EIQATFFYFTPNKTEDTIFLREYQTRQDQCIYNTTYLNVQRENGTISRIVGGQEHFAHLL  
ILRDTKTYMLAFDVNDEKNWGLSVYADKPETTKEQLGEFYEALDCLRIPKSDVVYTDWKK  
DKCEPLEKQHEKERKQEEGES

>sp|P19652|A1AG2\_HUMAN Alpha-1-acid glycoprotein 2 OS=Homo sapiens GN=ORM2 PE=1 SV=2

MALSWVLTVLSLLPLLEAQIPLCANLVPVPITNATLDKITGKWFYIASAFRNEEYNKSVQ  
EIQATFFYFTPNKTEDTIFLREYQTRQNCFYNSYLVNVRQRENGTVSRVEGGREHVAHLL  
FLRDTKTLMFSGSYLDDEKNWGLSFYADKPETTKEQLGEFYEALDCLCIPRSDVMYTDWKK  
DKCEPLEKQHEKERKQEEGES

>sp|Q96GX2|A7L3B\_HUMAN Putative ataxin-7-like protein 3B OS=Homo sapiens GN=ATXN7L3B PE=3  
SV=2

MEEISLANLDTNKLEAIAQEIYVDLIEDSCLGFCFEVHRAVKCGYFYLEFAETGSVKDFG  
IQPVEDKGACRLPLCSLPGEPGNPDQQLQRSPPPEFQ

>sp|P01011|AACT\_HUMAN Alpha-1-antichymotrypsin OS=Homo sapiens GN=SERPINA3 PE=1 SV=2

MERMLPLLALGLLAAGFCPAVLCHPNPLDEENLTQENQDRGTHVDLGLASANVDFAFSL  
YKQLVLKAPDKNVIFSPLSISTALAFSLGAHNTTLTEILKGLKFNLTETSEAEIHQSFQ  
HLLRTLNQSSDELQLSMGNAMFVKEQLSLLDRFTEDAKRLYGSEAFATDFQDSAAAKLI  
NDYVKNTRGKITDLIKDLSQTMMLVNYIFFKAKWEMPFDPQDTHQSRFYLSKKKWVM  
VPMMSLHHLTIPYFRDEELSCTVVELKYTGNASALFILPDQDKMEEVEAMLLPETLKRWR  
DSLEFREIGELYLPKFSISRDNLDILLQLGIEEAFTSKADLSGITGARNLAVSQVVHK  
AVLDVFEEGTEASAATAVKITLLSALVETRTIVRFNRPFMIIVPTDTQNIFFMSKVTNP  
KQA

>sp|Q8N5Z0|AADAT\_HUMAN Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial  
OS=Homo sapiens GN=AADAT PE=1 SV=2

MNYARFITAASAARNPSPIRTMTDILSRGPKSMISLAGGLPNPNMFPFKTAVITVENGKT  
IQFGEEMMKRALQYSPSAGIPELLSWLKQLIKLHNPPTIHYPPSQGQMDLCVTSGSQQG  
LCKVFEMIINPGDNVLLDEPAYSGTLQSLHPLGCNIINVASDESGIVPDSLRLDILSRWKP  
EDAKNPQKNTPKFLYTPNGNPTGNSLTSEKKEIYELARKYDFLIIEDDPYYFLQFNK  
FRVPTFLSMDVDGRVIRADSFSKIISGLRIGFLTGPKPLIERVILHIQVSTLHPSTFNQ  
LMISQLLHEWGEEGFMHVDRVIDFYSNQKDAILAAADKWLTLAEWHVPAAGMFLWIKV  
KGINDVKELIEEKAVKMGVLMPLGNAFYVDSSAPSPYLASFSSASPEQMDVAFQVLAQL  
IKESL

>sp|Q9UH17|ABC3B\_HUMAN DNA dC->dU-editing enzyme APOBEC-3B OS=Homo sapiens GN=APOBEC3B  
PE=1 SV=1

MNPQIRNPMERMYRDTFYDNFENEPILYGRSYTWLCYEVKIKRGRSNLLWDTGVFRGQVY  
FKPQYHAEMCFLSWFCGNQLPAYKCFQITWFSWTPCPDCVAKLAEFLSEHPNVTLTISA  
ARLYYYWERDYRRALCRLSQAGARVTIMDYEEFAYCWENFVYNQGGQFMPWYKFDENYAF

LHRTLKEILRYLMDPDTFTFNFNDPLVLRRTQTYLCYEVERLDNGTWVLMQHMGLCN  
EAKNLLCGFYGRHAELRFLDLVPSLQLDPAQIYRVTFISWSPCFSWGCAEVRAFLQEN  
THVRLRIFAARIYDYPYKEALQMLRDAGAQVSIMTYDEFEYCWDTFVYRQGCPFPWD  
GLEEHSQALSGRLRAILQNQGN

>sp|P78363|ABCA4\_HUMAN Retinal-specific ATP-binding cassette transporter OS=Homo sapiens  
GN=ABCA4 PE=1 SV=3

MGFVRQIQLLLWKNWTLRKRQKIRFVVELVWPLSLFLVLIWLRNANPLYSHHECHFPNKA  
MPSAGMLPWLGIFCNVNNPCFQSPTPGESPGIVSNYNNSILARVYRDFQELLMNAPESQ  
HLGRIWTELHILSQFMDTLRTHPERIAGRGIRIRDILKDEETLTLFLIKNIGLSDSVVYL  
LINSQVRPEQFAHGVPDLALKDIACSEALLERFIIFSQRRAKTVRYALCSLSQGTQWI  
EDTLYANVDFFKLFRVLPDLLDSRSQGINLRSWGGILSDMSPRIQEFIHRPSMQDLLWVT  
RPLMQNGGPETFTKLMGILSDLLCGYPEGGGSRVLSFNWYEDNNYKAFLGIDSTRKDPIY  
SYDRRTTSFCNALIQSLESNPLTKIAWRAAKPLLMGKILYTPDSPAARRILKNANSTFEE  
LEHVRKLVKAWEEVGPQIWFYFFDNSTQNMNIRDITLGNPTVKDFLNRQLGEEGITAEAILN  
FLYKGPRESQADDMANFDRDIFNITDRTLRLVNQYLECLVLDKFESYNDETQLTQRALS  
LLEENMFWAGVVPDMPWTSSLPPHVKYKIRMDIDVVEKTNKIKDRYWDSGPRADPVED  
FRYIWGGFAYLQDMVEQGITRSQVQAEAPVGIYLLQMPYPYCFVDDSFMIILNRCFPIFMV  
LAWIYSVSMTVKSIVLEKELRLKETLKNQGVSNVWCTWFLDSFSIMSMSIFLLTIFIM  
HGRILHYSDFILFLFLLAFSTATIMLCFLLSTFFSKASLAAACSGVIYFTLYLPHILCF  
AWQDRMTAELKKAVSLLSPVAFGFGTEYLVRFEQQGLGLQWSNIGNSPTGDEFSFLLSM  
QMMLLDAAVYGLLAWYLDQVFPDGYGTPLPWYFLLQESYWLGGEGCSTREERALEKTEPL  
TEETEDPEHPEGIHDSFFEREHPGWVPGVCVKNLVKIFPCGRPAVDRLNITFYENQITA  
FLGHNGAGKTTTSLTGLLPPTSGTVLVGGDIETSLDAVRQSLGMCPQHNLFHHLTV  
AEHMLFYAQLKGKSQEEAQLEMEAMLEDGLHHRNEEAQDLSGGMQRKLSVAIAFVGDA  
KVVILDEPTSGVDPPYSRRSIWDLKKYRSGRTIIMSTHHMDEADLLGDRIATIAQGRLYC  
SGTPLFLKNCFGTGLYTLVRKMKNIQSQRKGSEGTCSKSGFSTTCPAHVDDLTPQV  
LDGDVNELMDVVLHHVPEAKLVEICGQELIFLLPNKNFKHRAYASLFRELEETLADGLS  
SFGISDTPLEEIFLKVTEDSDSGPLFAGGAQQKRENVNPRHPCLGPREKAGQTPQDSNVC  
SPGAPAAHPEGQPPPEPCPGPQLNTGTQLVLQHVQALLVKRFQHTIRSHKDFLAQIVLP  
ATFVFLALMLSIVIPFGEYPALTLHPWIYGGQYTFFSMDEPGSEQFTVLADVLLNKPGF  
GNRCLKEGWLPEYPCGNSTPWKTPSVSPNITQLFQKQKWTQVNPSPSCRCSTREKLTMLP  
ECPEGAGGLPPPQRTQRSTEILQDLTDNRISDFLVKTYPALIRSSLKSKFWVNEQRYGGI  
SIGGKLPVVPITGEALVGFLSDLGRIMNVSGGPITREASKEIPDFLKHLETEDNIKVWFN  
NKGWHALVSFLNVAHNAILRASLPKDRSPEEYGITVISQPLNLKEQLSEITVLTTSVDA  
VVAICVIFSMSFVPASFVLYLIQERVNKS KHLQFISGVSPPTYWVTNFWLWIMNYSVSAG  
LVVGIFIGFQKKAYTSPENLPALVALLLYGWAVIPMMYPASFLFDVPSTAYVALSCANL  
FIGINSSAITFIELEFENNRTLRLRFAVLRLKLLIVFPHFCLGRGLIDLALSQAVTDVYAR  
FGEEHSANPFHWDLIGKNLFAMVVEGVVYFLLTLLVQRHFFLSQWIAEPTKEPIVDEDDD  
VAERQRIITGGNKTDILRLHELTKIYPGTSSPAVDRLCVGVRPGECFLLGVNGAGKTT  
TFKMLTGDTTVTSGDATVAGKSILTNISEVHQNMGYCPQFDAIDELLTGREHLYLYARLR  
GVPAEEIEKVANWSIKSLGLTVYADCLAGTYSGGNKRKLSTAIALIGCPPLVLLDEPTTG  
MDPQARRMLWNVIVSIIREGRAVLTSHSMEECEALCTRLAIMVKGAFRCMGTIQHLKSK  
FGDGYIVTMKIKSPKDDLPLDLPVVEQFFQGNFPGSVQRERHYNMLQFQVSSSSLARIFQ  
LLLSHKDSLIIIEYSVTQTTLQVFNFAKQQTESHDLPLHPRAAGASRQAQD

>sp|Q8IUA7|ABCA9\_HUMAN ATP-binding cassette sub-family A member 9 OS=Homo sapiens GN=ABCA9  
PE=1 SV=1

MSKRRMSVGQQTWALLCKNCLKKWRMKRQTLLLEWLFSLVLFLYLFFSNLHQVHDPQM  
SSMDLGRVDSFNDNTNYVIAFAPESKTTQEIMNKVASAPFLKGRTIMGWPDEKSMDLDELN  
YSIDAVRVIFTDTFSYHLKFSWGHRIIPMMKEHRDHSQAVNEKMKCEGSEFWKGFVA  
FQAAINAAIEIATNHSVMEQLMSVTGVHMKILPFVAQGGVATDFFIFFCIIISFSTFIYY  
VSVNVTQERQYITSLMTMMGLRESAFWLSWGLMYAGFILIMATLMALIVKSAQIVVLTGF  
VMVFTLFLLYGLSLITLAFMSVLIKKPFLTGLVVFLIVFWGILGFPALYTRLPAFLEW  
TLCLLSPFAFTVGMAQLIHLDDVNSNAHLDSQNPYLIATLFLMLVFDTLTYLVLTYF  
DKILPAEYGHRCSPFLFLKSCFWFHGRANHVLENETDSDPTPNDCEFPVSPEFCGKEA  
IRIKNLKKEYAGKCERVEALKGVVFDIYEGQITALLGHSGAGKTLLNLSGLSVPTSGS  
VTVYNHTLSRMADIENISKFTGFCPQSNVQFGFLTIVENLRFLFAKIKGILPHEVEKEVQR  
VVQELEMENIQDILAQNLGGQNRKLTFGIAILGDPQVLLDEPTAGLDPLSRHRIWNLL  
KEGKSDRVILFSTQFIDEADILADRVFISNGKLKAGSSLFLKKKWGIGYHLSLHLNER  
CDPESITSLVKQHISDAKLTAQSEEKLVIYILPLERTNKFPELYRDLDRCSNQGIEDYGV  
ITTLNEVFLKLEGKSTIDESDIGIWGQLQTDGAKDIGSLVELEQVLSSFHETRKTISGVA  
LWRQQVCAIAKVRFLKLKKERKSLWTILLFGISFIPQLLEHLFYESYQKSYPWELSPNT  
YFLSPGQQPQDPLTHLLVINKTGSTIDNFLHSLRRQNIIEVDAFGTRNGTDDPSYNGAI  
IVSGDEKDHFRFSIACNTKRLNCFVLLDVISNGLLGIFNSSEHIQTDRSTFFEEHMDY  
GYRNTFFWIPMAASFTPYIAMSSIGDYKKKAHSQRLISGLYPSAYWFGQALVDVSLYFL  
ILLLMQIMDYIFSPEEIIFFIIQNLLIQILCSIGYVSSLVFLTYVISFIFRNGRKN  
SGIWSFFFLIVVIFSIVATDLNEYGFLGLFFGTMLIPPFTLIGSLFIFSEISPDSMDYLGASE  
SEIVYLALLIPYLHFLIFLFIILRCLEMNCRKKLMRKDPVFRISPRSNAIIFNPPEEGE  
EEDIQMERMRVTNAMAVRDFDETPVIIASCLRKEYAGKKKNCFSKRKKKIATRNVSF  
CVKKGEVIGLLGHNGAGKSTTIKMITGDTKPTAGQVILKSGGGGEPLGFLGYCPQENAL  
WPNLTVRQHLEVYAAVKGLRKGDAMIAITRLVDALKLQDQLKAPVKTLSEGIKRKLCFV  
LSILGNPSVVLLDEPSTGMDPEGQQQMWQVIRATFRNTERGALLTHYMAEAEAVCDRVA  
IMVSGRLRCIGSIQHLKSKFGDYLLMKLNLAQMEPLHAEILRLFPQAAQQRFFSSLMVY  
KLPVEDVRPLSQAFFKLEIVKQSFDDLEEYSLSQSTLEQVFLELSKEQELGDLEEDFDPS  
VKWKLLLQEEP

>sp|Q8WWZ4|ABCA10\_HUMAN ATP-binding cassette sub-family A member 10 OS=Homo sapiens  
GN=ABCA10 PE=2 SV=3

MNKMALASFMKGRTVIGTPDEETMDIELPKKYHEMVGVIQSDTFSYRLKFNWGYRIPVIK  
EHSEYTEHCWAMHGEIFCYLAKYWLKGFVAFQAAINAAIEVTTNHSVMEELTSVIGINM  
KIPPFISKGEIMNEWFHFTCLVSFSSFIYFASLNVARERGGKFKLMTVMGLRESAFWLSW  
GLTYICFIFIMSIFMALVITSIPIVFHTGFMVIFTLYSLYGLSLIALAFMSVLIRKPML  
AGLAGFLFTVFWGCLGFTVLYRQLPLSLGWVLSLLSPFAFTAGMAQITHLDNYLSGVIFP  
DPGDSYKMIATFFILAFDTLYLIFTLYFERVLPDKDGHGDSPLFLKSSFWSKHQNT  
HHEIFENEINPEHSSDDSFEPVSPEFHGKEAIRNVIKEYNGKTGKVEALQGIFFDIYEG  
QITAILGHNGAGKSTLLNLSGLSVSTEGSATIYNTQLSEITDMEEIRKNIGFCPQFN  
FQFDFTVRENLRVFAKIKGIQPKVEQEVRKRIIMELDMQSIQDIIAKKLSGGQKRKLT  
LGIATLGDQPQVLLDEPTAGLDPPFSRHRVWSLLKEHKVDRLILFSTQFMDEADILAD  
RKVFLSNGKLKAGSSLFLKRKWGIGYHLSLHRNEMCDTEKITSLIKQHIPDAKLTT  
ESEELVYSLPLEKTNKFPDLYSDLKCDQGIRNYAVSVTSLNEVFLNLEGKSAIDEPDFD  
IGKQEKI

HVTRNTGDESEMEQVLCSLPETRAVSSAALWRRQIYAVATLRFKLRRERRALLCLLLV  
LGIAFIPIILEKIMYKVTRETHCWEFSPSMYFLSLEQIPKTPLTSLLIVNNTGSNIEDLV  
HSLKCQDIVLEIDDFRNRNGSDDPSYNGAIIVSGDQKDYRFSVACNTKKLNCFPVLMGIV  
SNALMGIFNFTELIQMESTSFSRDDIVLDLGFIDGSIFLLITNCVSPFIGMSSISDYKK  
NVQSQLWISGLWPSAYWCGQALVDIPLYFLILFSIHLIYYFIFLGFQLSWELMFVLVVC  
IGCAVSLIFLTYVLSFIFRKWRKNNGFWSFGFFIILICVSTIMVSTQYEKLNILCMIFI  
PSFTLLGYVMLLIQLDFMRNLDSDNRINEVNKTILLTTLIPYLSVIFLVIRCLEMKY  
GNEIMNKDPVFRISPRSRETHPNPEEPEEDEDVQAERVQAANALTAPNLEEEPVITASC  
LHKEYYETKKSCFSTRKKKIAIRNVSFCKKGEVLGLLGHNGAGKSTS IKMITGCTKPTA  
GVVVLQGSRASVRQQHDNSLKFLGYCPQENSLWPKLTMKEHELYAAVKGLGKEDAALSI  
SRLVEALKLQEQLKAPVKTLSEGIKRKLCFVLSILGNPSVVLLDEPFTGMDPEGQQMWQ  
ILQATVKNKERGTLLTTHYMSEAEAVCDRMAMMVSGTLRCIGSIQHLKNKFRDYLLLEIK  
MKEPTQVEALHTEILKLFPQAAWQERYSSLMAYKLPVEDVHPLSRAFFKLEAMKQTFNLE  
EYSLSQATLEQVFLCELCKEQLGNVDDKIDTTVEWKLLPQEDP

>sp|Q86UQ4|ABCAD\_HUMAN ATP-binding cassette sub-family A member 13 OS=Homo sapiens  
GN=ABCA13 PE=2 SV=3

MGHAGCQFKALLWKNWLCRLRNPVFLAEFFWPCILFVILTVLRFQEPYRDICYLQPR  
DLPSCGVIPFVQSLLCNTGSRNFSYEGSMEHHFRLSRFQTAADPKKVNLAFLKEIQD  
LAEEIHGMMDKAKNLKRLWVERSNTPDSSYGSSFFTMDLNKTEEVILKLESLHQQPHIWD  
FLLLPLRLHTSHDHVEDGMDVAVNLLQTILNSLISLEDLDWLPNQTFQSQVSELVNLVTI  
STLTFLQQHGVAVTEPVYHLSMQNIVWDPQKVQYDLKSQFGFDDLHTEQILNSSAELKEI  
PTDTSLEKMVCSVLSSTSEDEAEKWGHVGGCHPKWSEAKNYLVHAVSWLRVYQQVFVQWQ  
QGSLLQKTLTGMGHSLEALRNQFEESKPWKVVEALHTALLLNDSLSADGPKDNHTFPK  
ILQHLWKLQSLLQNLPQWPALKRFLQLDGALRNAIAQNLHFVQEVLICLETSSANDFKWFE  
LNQLKLEKDVFFWELKQMLAKNAVCPNGRFSEKEVFLPPGNSSIWGGGLQGLLCYCNSSET  
SVLNKLLGSVEDADRILQEVITWHKNMSVLIPPEYLDWQELEMQLSEASLSCTRLFLLLG  
ADPSPENDVFSSDCKHQLVSTVIFHTLEKTQFFLEQAYYWKAFKKFIRKTCEVAQYVNMQ  
ESFQNRLLAFPEESPCFEENMDWKMISDNYFQFLNNLLKSPTASISRALNFTKHLMMEK  
KLHTLEDEQMNFLLSFVEFFEKLKLLPNLFDSSIVPSFHSLSLTTEDILNISSLWTNHLKS  
LKRDP SATDAQKLEFGNEVIWKMTLGSHWIRKEPKNLLRFIELILFEINPKLLELWAY  
GISKGKRAKLENFFTLLNFSVPENEILSTSFNFSQLFHSWPKSPAMNIDFVRLSEAIT  
SLHEFGLEQEQISEALNTVYAIRNASDLFSALSEPQKQEVDKILTHIHLNVFQDKDSAL  
LLQIYSSFYRYIYELLNIQSRGSSLTFLTQISKHILDIKQFNFNISKAFALFKTAEV  
LGGISNVSYCQQLSIFNFLELQAQSF MSTEGQELEV IHTTLTGLKQLLIIDEDFRISLF  
QYMSQFFNSSVEDLLDNKCLISDNKHISSVNYSTSEESSFVPLAQIFS NLSANVS VFNK  
FMSIHCTVSWLQMWTEIWETISQLFKFDMNVFTSLHHGFTQLLDELEDDVKVSKSCQGIL  
PTHNVARLILNLFKNVTQANDFHNWEDFLDLRDFLVALGNALVSVKLNLEQVEKSLFTM  
EAALHQLKTFPFNESTSREFLNSLLEVFI EFSSSTSEYIVRNLDSINDFLSNNLTNYGEKF  
ENIITELREAIVFLRNVSHDRDLFSCADIFQNVTECILEDGFLYVNTSQRMLRILDTLNS  
TFSSSENTISSLGKCIWLDVINHLYLLSNSSFSQGHQNLIGNFRDIENKMNSILKIVTW  
VLNIKKPLCSSNGSHINCVNIYLDVTDLNLIVLTTVFEKEKKPKFEILLALLNDSTKQV  
RMSINNLTDFDFASQSNWRYFTELILRPIEMSDEIPNQFQNIWLHLITLGKEFQKLKVG  
IYFNILENNSSSKTENLLNIFATSPKEKDVNSVGNSIYHLASYLAFSLSHDLQNSPKIII  
SPEIMKATGLGIQLIRDVFNSLMPVVHHTSPQNAGYMQALKKVTSMRTLKKADIDLLVD

QLEQSVNLMDFFKNISSVGTGNLVVNLLVGLMEKFADSSHSWNVNHLLQLSRLFPKDVV  
DAVIDVYVVLPHAVRLLQGVP GK NITEGLKDVYSFTLLHGITISNITKEDFAIVIKILLD  
TIELVSDKPDIISEALACFPVWVCWNHTNSGFRQNSKIDPCNVHGLMSSSFYGVASILD  
HFHLS PQGEDSPCSNESSRMEITRKVVCIIHELVDWNSILLELSEVFHVNISLVKTVQKF  
WHKILPFVPPSINQTRDSISELCPSGSIKQVALQIIIEKLKNVNFTKVTSGENILDKLSSL  
NKILNINEDTETSVQNIISSNLERTVQLISEDWSLEKSTHNLLSLFMMLQANAVTGSSLE  
ALSSFIEKSETPYNFEELWPKFQQIMKDLTQDFRIRHLLSEMNGIKSINSMALQKITLQ  
FAHFLEILDSPSLKTLEIIEDFLLVTKNWLQEYANEDYSRMETLFIPTNESSTEDIAL  
LAKAIATFWGSLKNISRAGNFDVAFLTHLLNQEQLTNFSVVQLLFENILINLNNLAGNS  
QEAAWNLDNDLQIMNFILILNHMQSETSRKTVLSLRSIVDFTEQFLKTFFSLFLKEDS  
ENKISLLLKYFHKDVIAEMSFVPKDKILEILKLDQFLTMIQDRLMNIFSSLKETIYHLM  
KSSFILDNGEFYFDTHQGLKFMQDLFNALLRETSMKNKTENNIDFFT VVSQ LFFHVNKSE  
DLFKLNQDLGSALHLVRECSTEMARLLDTILHSPNKDFYALYPTLQEVILANLTDLLFFI  
NNSFPLRN RATLEITKRLVGAISRASEESHVLKPLLEMSGTLVMLLND SADLRDLATSMD  
SIVKLLKL VKKVS GKMSTVFKTHFISNTKDSVKFFDTLYSIMQQSVQNLVKEIATLKKID  
HFTFEKINDLLVPFLDLAFEMIGVEPYISSNSDIFSMSPSILSYMNQSKDFSDILEEIAE  
FLTSVKMNLEDMRSLAVAFNNETQTFMSDSVNLREEILGCLVPINNITNQMDFLYPNPIS  
THSGPQDIKWEIIHEVIPFLDKILSQNSTEIGSFLKMVICLTLEALWKNLKKDNWNVSNV  
LMTFTQHPNNLLKTIETVLEASSGIKSDYEGDLNKS LYFDTPLSQNITHHQL EKA IHNVL  
SRIALWRKGLLFNNSEWITSTRTLFQPLFEIFIKATTGKNVTSEKEERTKKEMIDFPYSF  
KPF FCKEYLGGLFVLTKYWQQIPLTDQSVVEICEVFQQTVKPSEAMEMLQKVKMMVVRV  
LTIVAENPSWTKDILCATLSCKQNGIRHLILSAIQGVTLAQDHFQEIEKIWSSPNQLNCE  
SLSKNLSSTLESFKSSLENATGQDCTSQPRLETVQQHLYMLAKSLEETWSSGNPIMTFLS  
NFTVTEDVKIKDLMKNITKLTEELRSSIQISNETIHSILEANISHSKVLFSALTVALSGK  
CDQEILHLLLTFPKGEKSWIAAEELCSLPGSKVYSLIVLLSRNLDVRAFIYKTLMPSEAN  
GLLNSLLDIVSSLSALLAKAHVF EYLPEFLHTFKITALLETLDFQQVSQNVQARSSAFG  
SFQFVMKMVCKDQASFLSDSNMFINLPRVKELLEDDKEKFNIPEDSTPFCLKLYQEILQL  
PNGALVWTF LKPI LHGKILYTPNTPEINKVIQKANYTFYIVDKLKT LSETLLEMSSLFQR  
SGSGQM FNQLQEALRNKFVRNFVENQLHIDVDKLTEKLQTYGGLLDEM FNHAGAGRFRFL  
GSILVNLSSCV ALNRFQALQSV DILETKAHELLQQNSFLASIIFSNSLFDKNFRSESVKL  
PPHVS YTI RTNVLYSVRTDVVKNP SWKFHPQNL PADGFKYNYVFAPLQDMIERAIILVQT  
GQEALEPAAQTQAAPYPCHTSDLFLNNVGFFFPLIMMLTWMVSVASMRKLVYEQEIQIE  
EYMRMMGVHPV IHFLAWFLENMAVLT ISSATLAIVLKTSGIFAHSNTFIVFLFLDFGMS  
VVMLSYLLSAFFSQANTAALCTSLVYMISFLPYIVLLVLHNQLSFVNQTFLC LLSTAFG  
QGVFFITFLEGQETGIQWNNMYQALEQGGMTFGWVCWMILFDSSLYFLCGWYLSNLIPGT  
FGLRKPWYFPFTASYWKS VGFLVEKRQYFLSSSLFFFNENFDNKGSSLQNREGELEGSAP  
GVTLSVSTKEYEGHKAVVQDLSLTFYRDQITALLGTNGAGKTTIIISMLTGLHPPTSGTII  
INGKNLQTDLSRVRMELGVCPQQDILLDNLT VREHLLLFASIKAPQWTKKELHQQVNQTL  
QDVDLTQH QHKQTRALS GGLKRKLSLGI AFMGMSRTVV LDEPTSGVDPCSRLSLWDILLK  
YREGRTIIFTTHHLDEAEALSDRVAVLQHGR LRCCGPPFCLKEAYGQGLRLTLTRQPSVL  
EAHDLKDMACVTS LIKIYIPQAF LKDS SSGSELTYTIPKDTDKACLKGLFQALDENLHQLH  
LTGYGISD TTLEEVFLMLLQDSNKKSHIALGTESELQNRPTGHLSGYCGSLARPATVQG  
VQLLRAQVAAILARRLRRTL RAGKSTLADLLLPVLFVALAMGLFMVRPLATEYPPRLRTP  
GHYQRAETYFFSSGGDNLDLTRVLLRKFRDQDLPCADLNPRQKNSSCWRTDPFSHPEFQD

SCGCLKCPNRSASAPYLTNHLGHTLLNLSGFNMEEYLLAPSEKPRLGGWSFGLKIPSEAG  
GANGNISKPPTLAKVWYNQKGFHSLPSYLNHLNLLILWQHLPPTVDWRQYGITLYSHPYG  
GALLNKDKILESIRQCGVALCIVLGFSSILSASIGSSVVRDRVIGAKRLQHISGLGYRMYW  
FTNFLYDMLFYLVSVCLCAVIVAFQLTAFTFRKNLAATALLSLFGYATLPWMYLMSRI  
FSSSDVAFISYVSLNFIIGLCTMLITIMPRLLAIISKAKNLQNIYDVLKVVFTIFPQFCL  
GQGLVELCYNQIKYDLTHNFGIDSYVSPFEMNFWIFVQLASQGTVLLLLRVLLHWDLL  
RWPRGHSTLQGTVKSSKDDTVEKEEKRVFEGRTNGDILVLYNLSKHYYRFFQNI IAVQDI  
SLGIPKGEFCGLLVNGAGKSTTFKMLNGEVSLTSGHAIIRTPMGDAVDLSSAGTAGVLI  
GYCPQQDALDELLTGWEHLYYYCSLRGIPRQCIPEVAGDLIRRLHLEAHADKPVATYSGG  
TKRKLSTALALVGKPDILLDEPSSGMDPCSKRYLWQTIMKEVREGCAAVLTSHSMEECE  
ALCTRLAIMVNGSFKCLGSPQHINKRFGDGYTVKWLCKEANQHCTVSDHLKLYFPGIQF  
KGQHLNLEHYHVPKRWGCLADLFKVIENNKTFLNKHYINQTTLEQVFINFASEQQQTL  
QSTLDPSTDSHHTHLPI

>sp|Q2M3G0|ABCB5\_HUMAN ATP-binding cassette sub-family B member 5 OS=Homo sapiens GN=ABCB5  
PE=1 SV=4

MENSERAEEEMQENYQRNGTAAEQPKLRKEAVGSIEIFRFADGLDITLMILGILASLVNGA  
CLPLMPLVLGEMSDNLISGCLVQTNTTNYQCTQSQEKLNEDMTLLTLYYVGIGVAALIF  
GYIQISLWIITAARQTKRIRKQFFHSLAQDIGWFDSCDIGELNTRMTDDIDKISDGIGD  
KIALLFQNMSTFSIGLAVGLVKGWKLTLVTLSTSPILMASAAACSRMVISLTSKELSAYS  
KAGAVAEVLSSIRTVIAFRAQEKELQRYTQNLKDAKDFGIKRTIASKVSGLGAVYFFMNG  
TYGLAFWYGTSLILNGEPGYTIGTVLAVFFSVIHSSYCIGAAVPHFETFAIARGAAFHIF  
QVIDKKPSIDNFSTAGYKPESIEGTVEFKNVSFNPSRPSIKILKGLNLRKISGETVALV  
GLNGSGKSTVVQLLQRLYDPPDGFIMVDENDIRALNVRHYRDHIGVVSQEPVLFGTTSN  
NIKYGRDDVTDEEMERAAREANAYDFIMEFPNKFNTLVGEKGAQMSGGQKQRIAIARALV  
RNPKILILDEATSALDESSESVAQAALKASKGRTTIVVAHRLSTIRSADLIVTLKDGML  
AEKGAHAELMAKGLYSLVMSQDIKKADEQMESMTYSTERKTNSLPLHSVKSISKDFID  
KAEESTQSKEISLPEVSLKILKLNKPEWPFVVLGTLASVLNGTVHPVFSIIIFAKIITMF  
GNNDKTTLKHDAEIIYSMIFVILGVICFVSYFMQGLFYGRAGEILTMRLRHLAFKAMLYQD  
IAWFDEKENSTGGLTTLAIDIAIQGATGSRIGVLTQNAATNMGLSVIISFIYGWEMTFL  
ILSIAPVLAVTGMietaAMTGFANKDKQELKHAGKiateALENIRTIVSLTREKAFEQMY  
EEMLTQHRNTSKKAQIIIGSCYAFSHAFIYFAYAAGFRFGAYLIQAGRMTPEGMFIVFTA  
IAYGAMAIGETLVLAPEYSKAKSGAAHLFALLEKKPNIDSRSEQGKKPDTCEGNLEFREV  
SFFYPCRDPVFI LRGLSLSIERGKTAVFVGSSGCGKSTSVQLLQRLYDPVQGQVLFQDGD  
AKELNVQWLRSQLAIVPQEPVLFNCSIAENIAYGDNRRVPLDEIKEAANAANIHSFIEG  
LPEKYNTQVGLKGAQLSGGQKQLAIARALLQKPKILLDEATSALDNDSEKVVQHALDK  
ARTGRTCLVVTHRLSAIQNADLIVVLHNGKIKEQGTHQELLNRNDIYFKLVNAQSVQ

>sp|Q9NP58|ABCB6\_HUMAN ATP-binding cassette sub-family B member 6, mitochondrial OS=Homo  
sapiens GN=ABCB6 PE=1 SV=1

MVTVGNYCEAGPVGPAWMQDGLSPCFFFTLVPSTRMALGTALVLALPCRRRRERAPAGD  
SLSWGAGPRISPYVLQLLLATLQAALPLAGLAGRVGTARGAPLPSYLLLASVLESAGAC  
GLWLLVVERSQRQRLAMGIWIKFRHSPGLLLLWTVAFAAENLALVSWNSPQWWWARADL  
GQQVQFSLWVLRVYVSGGLFVLGLWAPGLRPQSYTLQVHEEDQDVERSQVRSAAQSTWR  
DFGRKLRLLSGYLWPRGSPALQVLVLI CLGLMGLERALNVLVPIFYRNIVNLLTEKAPWN  
SLAWTVTSYVFLKFLQGGGTGSTGFVSNLRTFLWIRVQQFTSRRVELLIFSHLHELRLRW



HLGRRTGEVLRIADRGTSSTVGLLSYLVFNVIPTLADIIIGIIYFSMFFNAWFLIVFLC  
MSLYLTLTIVVTEWRKFRAMNTQENATRARAVIDSLLNFETVKYNAESYEVERYREAI  
IKYQGLEWKSSASLVLLNQTQNLVIGLGLLAGSLLCAYFVTEQKLQVGDYVLFGTYYIIQL  
YMLNWFGTYYRMIQTNFIDMENMFDLLKEETEVDKLPAGAPLRFQKGRIEFENVHFSYA  
DGRETLDQVSFTVMPGQTLALVGPSGAGKSTILRLLFRFYDISSGCIRIDGQDISQVTQA  
SLRSHIGVVPQDTVLFNDTIADNIRYGRVTAGNDEVEAAAQAAGIHDAIMAFPEGYRTQV  
GERGLKLSGGEKQRVAIARTILKAPGIILLDEATSALDTSNERAIQASLAKVCANRTTIV  
VAHRLSTVVNADQILVIKDGCIIVERGRHEALLSRGGVYADMWQLQQGQEETSEDTKPQTM  
ER

>sp|095342|ABCB\_HUMAN Bile salt export pump OS=Homo sapiens GN=ABCB11 PE=1 SV=2

MSDSVILRSIKKFGFEENDGFESDKSYNNDKKSRLQDEKKGDGVRVGFQQLFRFSSSTDIW  
LMFVGSLSLCAFLHGIAQPGVLLIFGTMTDVFIDYDVELQELQIPGKACVNNTIVWTNSSLN  
QNMNTNGTRCGLLNIESEMIKFASYAGIAVAVLITGYIQICFWVIAAARQIQKMRKFYFR  
RIMRMEIGWFDNSVGELENTRFSDDINKINDAIADQMALFIQRMTSTICGFLGFFRGWK  
LTLVVISVSPLIGIGAATIGLSVSKFTDYELKAYAKAGVVADEVISSMRTVAAFGGEKRE  
VERYEKNLVFAQRWGIRKGIVMGFFTGFVWCLIFLCYALAFWYGSTLVLDEGEYTPGTLV  
QIFLSVIVGALNLGNASPCLEAFATGRAAATSIFETIDRKPIIDCMSEDGYKLDRIKGEI  
EFHNVTFHYPSPREVKILNDLNMVIKPGEMTALVGPSGAGKSTALQLIQRFYDPCEGMVT  
VDGHDIRSLNIQWLRDQIGIVEQEPVLFSTTIAENIRYGREDAIMEDIVQAAKEANAYNF  
IMDLPQQFDTLVGEQGGGQMSGGQKQRVAIARALIRNPKILLDMATSALDNESEAMVQEV  
LSKIQHGHTIISVAHRLSTVRAADTIIGFEHGTAVERGTHEELLERKGVYFTLVTLQSQG  
NQALNEEDIKDATEDDMLARTFSRGSYQDSLRAIRQRSKSQLSYLVHEPPLAVVDHKST  
YEEDRKDKDIPVQEEVEPAPVRRILKFSAPPEWYMLVGSVGAANGTVTPLYAFLFSQIL  
GTFSIPDKEEQRSQINGVCLLFVAMGCVSLFTQFLQGYAFAKSGELLTKRLRKFGFRAML  
GQDIAWFDDLNRNPGALTTRLATDASQVQGAAGSQIGMIVNSFTNVTVMIIAFSFSWKL  
SLVILCFPPFLALSGATQTRMLTGFAASRDQALEMVGQITNEALSNIRTVAGIGKERRFI  
EALETELEKPFKTAIQKANIYGFCFAFAQCIMFIANSASYRYGGYLISNEGLHFSYVFRV  
ISAVVLSATALGRAFSYTPSYAKAKISAARFFQLLDRQPPISVYNTAGEKWDNFQKGIDF  
VDCKFTYSPRPSQVLNGLSVSISPGQTLAFVGSSGCGKSTSIQLLERFYDPDQGVKIDF  
GHDSKKVNVQFLRSNIGIVSQEPVLFACSIMDNIKYGDNTKEIPMERVIAAAKQQLHDF  
VMSLPEKYETNVGSQGSQSLRGEKQRIAIARAIVRDPKILLDEATSALDTESEKTVQVA  
LDKAREGRTCIVIAHRLSTIQNADIIAVMAQGCVVIEKGTHEELMAQKGAYYKLVTGSPIS

>sp|014678|ABCD4\_HUMAN ATP-binding cassette sub-family D member 4 OS=Homo sapiens GN=ABCD4  
PE=1 SV=1

MAVAGPAPGAGARPRDLQFLQRFLQILKVLFPSSQNALMFLTLLCLTLLEQFVIYQV  
GLIPSQYYVGLGNKDLEGFKTLTFLAVMLIVLNSTLKSFDQFTCNLLYVSWRKDLTEHLH  
RLYFRGRAYTTLNVRDDIDNPDQRISQDVERFCRQLSSMASKLIISPFTLVYYTYQCFQ  
STGWLGPVSIFGYFILGTVVNKTLMGPIMKLVHQEKLEGDFRFXHMQIRVNAEPAAFYR  
AGHVEHMRTRRLQRLLTQRELMSELWLYIGINTFDYLGSIYSYVIAIPIFSGVYGD  
LSPAELSTLVSKNAFVCIYLISCFTQLIDLSTLSDVAGYTHRIGQLRETLLDMSLKSQD  
CEILGESEWGLDTPPGWPAAPADTAFLLERVSISAPSSDKPLIKDLSLKISEGQSLIT  
GNTGTGKTSLLRVLGGLWTSTRGSVQMLTDFGPHGVFLPQKPFPTDGTREQVIYPLKE  
VYPDSGSADDERILRFELEAGLSNLVARTEGLDQQVDWNWYDVLSPGEMQRLSFARLFYL

QPKYAVLDEATSALTEEVESELYRIGQQLGTMFISVGHRQSLEKFHSLVLKLCGGGRWEL  
MRIKVE

>sp|Q9UG63|ABCF2\_HUMAN ATP-binding cassette sub-family F member 2 OS=Homo sapiens GN=ABCF2  
PE=1 SV=2

MPSDLAKKKAAKKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKEL  
EDFEMKAAARAVTGV LASHPNSTDVHI INLSLTFHGQELLSDTKLELNSGRRYGLIGLN  
GIGKSMLLSAIGKREVP IPEHIDIYHLTREMPPSDKTPLHCVMEVDTERAMLEKEAERLA  
HEDAECEKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKKLKDFSGGWRMRVALA  
RALFIRPFMLLLDEPTNHLDLDACVWLEELKTFKRILVLVSHSQDFLNGVCTNI IHMHN  
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKE  
KTLQKMMASGLTERVVS DKTLSFYFP PCKIPPPVIMVQNV SFKYTKDGPCIYNNLEFGI  
DLDRVALVGPNGAGKSTLLKLLTGELLPTDGMIRKHSVKIGRYHQHLQEQLDLDSPL  
EYMMKCYPEIKEKEEMRKIIGRYGLTGKQQVSPIRNLSDGQKCRVCLAWLAWQNP HMLFL  
DEPTNHLDIETIDALADAINEFEGGMMLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA  
YKEHLKSKLVDEEPQLTKRTHNV

>sp|Q8N961|ABTB2\_HUMAN Ankyrin repeat and BTB/POZ domain-containing protein 2 OS=Homo  
sapiens GN=ABTB2 PE=2 SV=2

MAGTYSSTLKTLEDLTLD SGYGAGDSCRSLSSSSKSNSQALNSSAQHRAAWWCYSGS  
MNSRHNSWDTVNTVLPEDPEVADLFSRCPRLPELEEF PWTEGDVARVLRKGAGGRRLPQF  
SAEAVRRLAGLLRRALIRVAREAQRLSVLHAKCTRFEVQSAVRLVHSWALAESCALAAVK  
ALSLYSMSAGDGLRRGKSARCGLTFSVGRFFRWMVDTRISVRIHEYAAISLTACMENLVE  
EIRARVMASHSPDGGGAGGGEVSAEALEMVINNDAELWGVLPYEHLICGKNANGVLSLP  
AYFSPYNGGSLGHERADAYAQLELRTL EQSLLATCVGSI SELSDLVSRAMHHMQGRHPL  
CPGASPARQARQPPQPI TWSPDALHTLYYFLRCPQMESMENPNLDPPRMTLNNERPFMLL  
PPLMEWMRVAITYAEHRRSLTVDSGDIRQAARLLL PGLDCEPRQLKPEHCFSSFRRLDAR  
AATEKFNQDLGFRMLNCGRTDLINQAIEALGPDGVNTMDDQGMTPLMYACAAGDEAMVQM  
LIDAGANLDIQVPSNSPRHPSIHPDSRHWTSLTFAVLHGHISVVQLLLDAGAHVEGSAVN  
GGEDSYAETPLQLASAAGNYELVSLLLSRGADPLL SMLEAHGMGSSLHEDMNCFSHSAAH  
GHRNVLRLKLLTQPQAKADVLSLEEILAE GVEESDASSQSGSGEPVRLSRTRTKALQEA  
MYSSAEHGYVDITMELRALGVPWKLHIWIESLR TSFSQSRYSVVQSLLRDFSSIREEEYN  
EELVTEGLQLMFDILKTSKND SVIQQLATIFTHCYGSSPIPSIPEIRKTLPARLDPHFLN  
NKEMSDVTF LVEGKLFYAHKVLVTASNRFKTLMTNKSEQDGS SKTIEISDMKYHIFQM  
MMQYLYYGGTESMEIPTTDILELLSAASLFQLDALQRHCEILCSQTL SMESAVNTYKYAK  
IHNAPELALFCEGFFLHKMKALLEQDAFRQLIYGRSSKVQGLDPLQDLQNTLAERVHSVY  
ITSRV

>sp|Q13085|ACACA\_HUMAN Acetyl-CoA carboxylase 1 OS=Homo sapiens GN=ACACA PE=1 SV=2

MDEPSPLAQPLELNQHSRFIIGSVSEDNSEDEISNLVKLDLLEEKEGSLSPASVGS DTLS  
DLGISSLQDGLALHIRSSMSGLHLVKQGRDRKKIDSQRDFTVASPAEFVTRFGGNK VIEK  
VLIANNGIAAVKCMRSIRRWSYEMFRNERAIRFVVMVTPEDLKANA EYIKMADHYVPVPG  
GPNNNNYANVELILDIAKRIPVQAVWAGWGHASENPKLPELLLNKNGIAFMGPPSQAMWAL  
GDKIASSIVAQTAGIPTLPWSGSGLRVDWQENDFSKRILNVPQELYEKGYVKD VDDGLQA  
AEEVGYPVMIKASEGGGGKIRKVN NADDFPNLFRQVQAEVPGSPIFVMRLAKQSRHLEV  
QILADQYGN AISLFRGDCSVQRRHQKIIIEAPATIATPAVFEHMEQCAVKLAKMVG YVSA  
GTVEYLYSQDGSFYFLELNPR LQVEHPCTEMVADVNL PAAQLQIAMGIPLYRIKDIRMMY

GVSPWGDSPIDFEDSAHVPCPRGHVIAARITSENPDGFKPSSGTVQELNFRSNKNVWGY  
FSVAAAGGLHEFADSQFGHCFSWGENREEAISNMVVALKELSIRGDFRTTVEYLIKLEET  
ESFQMNRIDTGWLDRLIAEKVQAEPRDTMLGVVCGALHVADVSLRNSVSNFLHSLERGQV  
LPAHTLLNTVDVELIYEGVKYVLKVTRQSPNSYVVMNGSCVEVDVHRLSDGGLLSYDG  
SSYTTYMKEEVDYRITIGNKTCVFEKENDPSVMRSPSAGKLIQYIVEDGGHVFAGQCYA  
EIEVMKMVMTLTAVESGCIHYVKRPGAALDPGCVLAKMQLDNPSKVQQAEHTGSLPRIQ  
STALRGEKLHRVFHYVLDNLVNMNGYCLPDPFFSSKVKDWVERLMKTLRDPSPLELELQ  
DIMITSVSGRIPPNEKSIKKEMAAQYASNITSVLCQFPSQQIANILDSHAATLNRKSEREV  
FFMNTQSIIVQLVQRYRSGIRGHMKAIVMDLLRQYLRVETQFQNGHYDKCVFALREENKSD  
MNTVLNYIFSHAQVTKKNLLVTMLIDQLCGRDPTLTDELLNILTELTQLSKTTNAKVALR  
ARQVLIASHLPSYELRHNQVESIFLSAIDMYGHQFCIENLQKLILSETSIFDVLNFFYH  
SNQVVRMAALEVYVRRAYIAYELNSVQHRQLKDNTCVVEFQFMLPTSHPNRGNIPTLNRM  
SFSSNLNHYGMTHVASVSDVLLDNSFTPPCQRMGMVSFRTFEDFVRIFDEVMGCFSDSP  
PQSPTFPEAGHTSLYDEDKVPRDEPIHILNVAIKTDCDIEDDRLAAMFREFTQQNKATLV  
DHGIRRLTFLVAQKDFRKQVNYEVDRRFHREFPKFFTFRARDKFEEDRIYRHLEPALAFQ  
LELNRMRNFDLTAIPCANHKMHLYLGAAKVEVGTEVTDYRFFVRAIIRHSDLVTKEASFE  
YLQNEGERLLLEAMDELEVAFNNTNVRTDCNHIFLNFVPTVIMDPSKIEESVRSVMVMRYG  
SRLWKLRLVLAELKINIRLTPTGKAIPIRLFLTNESGYLDISLYKEVTDSTRTAQIMFQA  
YGDQKQPLHGMLINTPYVTKDLLQSKRFQAQSLGTTYIYDIPEMFRQSLIKLWESMSTQA  
FLPSPPLPSDMLTYTELVLDDQGQLVHMNRLPGGNEIGMVAWKMTFKSPEYPEGRDIIVI  
GNDITYRIGSFGPQEDLLFLRASELARAEGIPRIYVSANSGARIGLAEIRHMFHVAWVD  
PEDPYKGYRYLYLTPQDYKRVSALNSVHCEHVEDEGESRYKITDIIGKEEGIGPENLRGS  
GMIAGESSLAYNEIITISLVT CRAIGIGAYLVRLGQRTIQVENSHLILTGAGALNKVLGR  
EYVTSNNQLGGIQIMHNGVTHCTVCDDFEGVFTVLHWLSYMPKSVHSSVPLLNSKDPID  
RIIEFVPTKTPYDPRWMLAGRPHPTQKGQWLSGFFDYGSFSEIMQPWAQTVVVGRARLGG  
IPVGVVAVETRTVELSIPADPANLDSEAKIIQQAGQVWFPDSAFKTYQAIKDFNREGLPL  
MVFANWRGFSGGMKDMDYQVLKFGAYIVDGLRECCQPVLVYIPPQAE LRGGSWVIDSSI  
NPRHMEMYADRESRGSVLEPEGTVEIKFRRKDLVKTMRRVDPVYIHLAERLGTPELSTAE  
RKELENKLKEREFLPIYHQVAVQFADLHDTPGRMQEKGVISDILDWKSRTFFYWRLR  
RLLEDLVKKKIHNANPELTDGQIQAMLRRWFVEVEGTVKAYVWDNNKDLAEWLEKQLTE  
EDGVHSVIEENIKCISRDYVLKQIRSLVQANPEVAMDSIIHMTQHISPTQRAEVIRILST  
MDSPST

>sp|000763|ACACB\_HUMAN Acetyl-CoA carboxylase 2 OS=Homo sapiens GN=ACACB PE=1 SV=3  
MVLLCLCLSLIFSLTFSWLKIWKMTDSKPI TKSKSEANLIPSEQEPFASDNSGETPQR  
NGEGHTLPKTPSQAEPA SHKGPKDAGRNRNSLPPSHQKPPRNPLSSDAAPSPELQANGT  
GTQGLEATDTNGLSSARPQGGQAGSPSKEDKKQANIKRQLMTNFILGSFDDYSSDEDSV  
AGSSRESTRKGSRASLGALSLEAYLTGAEATRVPTMRPSMSGHLHLVKRGREHKKLDLHR  
DFTVASPAEFVTRFGGDRVIEKVLIANNGIAAVKCMRSIRRWAYEMFRNERAIRFVVMVT  
PEDLKANA EYIKMADHYVPVPGGPNNNNYANVELIVDIAKRIPVQAVWAGWGHASENPKL  
PELLCKNGVAF LGPPSEAMWALGDKIASTVVAQTLQVPTLPWSGSGLTVEWTEDDLQQGK  
RISVPEDVYDKGCVKDVDEGLEAAERIGFPLMIKASEGGGGKGIRKAESAEDFPILFRQV  
QSEIPGSPIFLMKLAQHARHLEVQILADQYGNVSLFGRDCSIQRRHQKIVEEAPATIAP  
LAIFE FMEQCAIRLAKTVGYVSAGTVEYLYSQDGSFHFLELNPRLQVEHPCTEMIADVNL  
PAAQLQIAMGVPLHRLKDIRLLYGESPWGVTPI SFETPSNPPLARGHVIAARITSENPD

GFKPSSGTVQELNFRSSKNVWGYFSVAATGGLHEFADSQFGHCFSWGENREEAISNMVVA  
LKELSIRGDFRTTVEYLINLLETESFQNNIDITGWLDYLIAEKVQAEKPDIMLGVVCGAL  
NVADAMFRTCMDTFLHSLERGQVLPADSLNLVDVELIYGGVKYILKVARQSLTMFVLIM  
NGCHIEIDAHRLNDGGLLSYNGNSYTTYMKEEVDSYRITIGNKTCVFEKENDPTVLRSP  
SAGKLTQYTVEDGGHVEAGSSYAEMVMMIMTLNVQERGRVKYIKRPGAVLEAGCVVAR  
LELDDPSKVHPAEPFTGELPAQQTLPILGEKLHQVFHSVLENLTNVMSGFCLPEPVFSIK  
LKEWVQKLMMLTRHPSLPLELQEIMTSVAGRIPAPVEKSVRRVMAQYASNITSVLCQFP  
SQQIATILDCHAATLQRKADREVEFFINTQSIVQLVQRYRSGIRGYMKTVVLDLLRRYLRV  
EHFHQQAHYDKCVINLREQFKPDMSSQVLDICFSHAQVAKKNQLVIMLIDELCGPDPSLSD  
ELISILNELTQLSKSEHCKVALRARQILIASHLPSYELRHNQVESIFLSAIDMYGHQFCP  
ENLKKLILSETTIFDVLPTFFYHANKVVCMALEVVYVRRGYIAYELNSLQHRQLPDGTCV  
VEFQFMLPSSHPNRMTPVISITNPDLLRHSTELFMDSGFSPLCQRMGAMVAFRRFEDFTR  
NFDEVISCFANVPKDTPLFSEARTSLYSEDDCKSLREEPIHILNVSIIQCADHLEDEALVP  
ILRTFVQSKKNILVDYGLRRITFLIAQEKEFPKFFTFRARDEFAEDRIYRHLEPALAFQL  
ELNMRNFDLTAVPCANHKMHLVYGAQVKEGVEVTDHRRFFIRAIIRHSDLITKEASFY  
LQNEGERLLEAMDELEVAFNNTSVRTDCNHIFLNFVPTVIMDPFKIEESVRYMVMRYGS  
RLWKLRLVLAQEVKINIRQTTTGSAPVIRLFTNESGYLDISLYKEVTDSSRSGNIMFHSF  
GNKQGPQHGMINTPYVTKDLLQAKRFQAQTLGTTYIYDFPEMFRQALFKLWGSPDKYPK  
DILTYTELVLDSQGGQLVEMNRLPGGNEVGMVAFKMRFKTQEYPEGRDIVIGNDITFRIG  
SFGPGEDLLYLASEMARAEGIPKIYVAANS GARIGMAEEIKHMFHVAWVPEDPHKGFK  
YLYLTPQDYTRISSLSNVHCKHIEEGGESRYMITDIIGKDDGLGVENLRGSGMIAGESSL  
AYEEIVTISLVTCTRAIGIGAYLVRLGQRVIQVENSHIILTGASALNKVLGREVYTSNNQL  
GGVQIMHYNGVSHITVPDDFEGVYTILEWLSYMPKDNHSPVPIITPTDPIDREIEFLPSR  
APYDPRWMLAGRPHTLKGTSQGFDFHGSFKEIMAPWAQTVVTGRARLGGIPVGVIAVE  
TRTVEVAVPADPANLDSEAKIIQQAGQVWFPDSAYKTAQAVKDFNREKLPLMIFANWRGF  
SGGMKMDYDQVLKFGAYIVDGLRQYKQPILYIIPPYAELRGGSWVVIDATINPLCIEMYA  
DKESRGGVLEPEGTVEIKFRKKDLIKSMRRIDPAYKKLMEQLGEPDLSKDRKDLEGRK  
AREDLLPIYHQVAVQFADFHDTPGRMLEKGVISDILEWKTARTFLYWRLRRLLEDQVK  
QEILQASGELSHVHIQSMLRRWFVETEGAVKAYLWDNNQVVVQWLEQHWQAGDGPRSTIR  
ENITYLKHDSVLKTIIRGLVEENPEVAVDCVIYLSQHISPAERAQVVHLLSTMDSPAST

>sp|Q8NCV1|ADAD2\_HUMAN Adenosine deaminase domain-containing protein 2 OS=Homo sapiens  
GN=ADAD2 PE=2 SV=1

MASASQGADDDGSRKPRLAASLQISQPRPWRPLPAQAQSAWGPAPAPATYRAEGGWQ  
VSVLRDSGPGAGAGVGEAARAWENLGEQMGKAPRVPPAGLSLPLKDPASQAVSLL  
TEYAASLGIFLLFREDQPPGPCFPFSVSAELDGVVCAGTANSKTEAKQQAALSALCYIR  
SQLENPESPQTSSRPPLAPLSVENILTHEQRCAALVSAGFDLLDERSPYWACKGTVAGV  
ILEREIPRARGHVKEIYKLVALGTGSSCCAGWLEFSGQQLHDCGLVIARRALLRFLFRQ  
LLLATQGGPKGKEQSVLAPQPGPGPPFTLKPRVFLHLYISNTPKGAARDIYLPPTSEGG  
PHSPPMRLQAHVLGQLKPVICYVAPSLCDTHVGCLSASDKLARWAVLGLGALLAHLVSPL  
YSTSLILADSCHDPPTLSRAIHTRPCLDSVLGPCLPPPYVRTALHLFAGPPVAPSEPTPD  
TCRGLSLNWSLGDPGIEVVDVATGRVKANAALGPPSRLCKASFLRAFHQAAARAVGKPYLL  
ALKTYEAAKAGPYQEARRQLSLLLDQQLGAWPSKPLVGKFRN

>sp|Q9H2U9|ADAM7\_HUMAN Disintegrin and metalloproteinase domain-containing protein 7  
OS=Homo sapiens GN=ADAM7 PE=1 SV=3

MLPGCIFLMILLIPQVKEKFILGVEGQQLVRPKKLPLIQKRDGTGHTHDDILKTYEEELL  
YEIKLNRKTLVLHLLRSREFLGSNYSETFYSMKGEAFTRHPQIMDHCFYQGSIVHEYDSA  
ASISTCNGLRGFFRINDQRYLIEPVKYSDEGEHLVFKYNLRVPYGANYSCTELNFTRKTV  
PGDNESEEDSKIKGIHDEKYVELFIVADDTVYRRNGHPHNKLRNRIWGMVNFVNMIYKTL  
NIHVTLVGIEIWTHEDEKIELYSNIETTLRFSFWQEKILKTRKDFDHVVLLSGKWLYSHV  
QGISYPGGMCLPYYSTSIKDLLPDTNIIANRMAHQLGHNLMQHDFFCTCPSGKCVMD  
SDGSIPALKFSKCSQNYHQYLKDYKPTCMLNIPFPYNFHDFFQCGNKKLDEGEEDCGP  
AQECTNPCCDAHTCVLPKGFCAEGECCESCQIKKAGSICRPKDECDFFEMCTGHSPAC  
PKDQFRVNGFPCKNSEGYCFMGKCPTRDQCSELFDDAIESHDICYKMNKGNKFGYCK  
NKENRFLPCEEKDVRCKIYCTGGELSSLLGEDKTYHLKDPQKNATVKCKTIFLYHDSTD  
IGLVASGKTCGEGMVCNNGECLNMEKVYISTNCPSCNENPVDGHLQCHCEEGQAPVAC  
EETLHVTNITILVVVLVIVIGVILLVRYRKCIKLKQVQSPPTETLGVENKGYFGDE  
QQIRTEPILPEIHFLNKPASKDSRGIADPNQSAK

>sp|P78325|ADAM8\_HUMAN Disintegrin and metalloproteinase domain-containing protein 8  
OS=Homo sapiens GN=ADAM8 PE=1 SV=2

MRGLGLWLLGAMMLPAIAPSRPWALMEQYEVVLPWRLPGPRVRRALPSHLGLHPERVSYV  
LGATGHNFTLHLRKNRDLLGSGYTETYTAANGSEVTEQPRGQDHCYQGHVEGYPDSAAS  
LSTCAGLRGFFQVGSDDLHLIEPLDEGGEGGRHAVYQAEHLLQTAGTCGVSDSLGSLG  
RTAAVFRPRPGDSLPSRETRYVELYVVVDNAEFQMLGSEAAVRHRVLEVNVHVDKLYQKL  
NFRVVLVGLIEIWNQDRFHVSPDPSVTLENLLTWQARQRTRRHLDNVQLITGVDFGT  
VGFARVSAMCSHSSGAVNQDHSKNPVGVACTMAHEMGNLGMHDENVQGCRCQERFEAG  
RCIMAGSIGSSFPRMFSDCSQAYLESFLERPQSVCLANAPDLSHLVGGPVCGNLFVERGE  
QCDCGPPEDCRNRCCNSTTCQLAEGAQCAHGTCCQECKVKPAGELCRPKKDMCDLEEFCD  
GRHPECPEDAFQENGTPCSGGYCYNGACPTLAQQCAFWGPGGQAAEESCFSDILPGCK  
ASRYRADMCGVLQCKGGQPLGRAICIVDVCHALTTEGTAYEPVPEGTRCGPEKVCWKG  
RCQDLHVYRSSNCSAQCHNHGVCNHKQECHCHAGWAPPHCAKLLTEVHAASGSLPVFVVV  
VLVLLAVVLVTLAGIIVYRKARSRILSRNVAPKTTMGRSNPLFHQAASRVPAKGGAPAPS  
RGPQELVPTTHPGQPARHPASSVALKRPPAPPVTVSSPPFPVPVYTRQAPKQVIKPTFA  
PPVPPVKPGAGAAPGPAEGAVGPKVALKPPIQRKQGAGAPTAP

>sp|Q9NPF8|ADAP2\_HUMAN Arf-GAP with dual PH domain-containing protein 2 OS=Homo sapiens  
GN=ADAP2 PE=1 SV=1

MGRERENKRLLELLRAPDTGNAHCADCGAADPDWASYKLGIFICLNCCGVHRNFPDISR  
VKSVRLDFWDDSI VEFMIHNGNLRVKAKFEARVPAFYIIPQANDCLVLKEQWIRAKYERR  
EFMADGETISLPGNREGFLWKRGRDNSQFLRRKFVLLAREGLLKYFTKEQGKSPKAVISI  
KDLNATFQTEKIGHPHGLQITYRRDGHTRNLFVYHESGKEIVDWFNALRAARLQYLKMAF  
PELPESELVPFLTRNYLKQGFMEKTGPKQKEPFKKRWFALDCHERRLLYKNPLDAFEQG  
QVFLGNKEQGYEAYEDLPKGI RGNRWKAGLTIVTPERRFVLTCPSKEQEQEWLESLRGVL  
SSPLTPLNRLTASTESGRSSR

>sp|A8MUL3|ADAS1\_HUMAN Putative uncharacterized protein ADARB2-AS1 OS=Homo sapiens  
GN=ADARB2-AS1 PE=5 SV=2

MKQLFPPPPGTSALTHALGAWRGRERAQAATSLASSASQFPTAVEDALMSVLTSHCAPST  
PAATRAQQTGTRGHIHPACPCQSCV GASRPPGRPQIFLPLTTALSLEAYAADTCSAADF  
LHNPSSWGKVWYLN EASFDLYSYHYFW

>sp|Q5VUY0|ADCL3\_HUMAN Arylacetamide deacetylase-like 3 OS=Homo sapiens GN=AADACL3 PE=2 SV=4

MIFEKLRICSMPPQFFCFMQDLPLKYDPDVVVTDQFRFGTIPVKLYQSKASTCTLKPGIVY  
YHGGGGVMGSLKTHHGICSRCKESDSVVLAVGYRKLPHKHPVPVRDCLVATIHFLKSL  
DAYGVDPARVVVCGDSFGGAIAAVVCQQLVDRPDLPRIRAQILYAILQALDLQTPSFQQ  
RKNIPLLTWSFICYCFFQNLDFSSSWQEVIMKGAHLPAEVWEKYRKWLGPENIPERFKER  
GYQLKPHEPMNEAAYLEVSVDVDMCSPLIAEDDIVSQLPETCIVSCEYDALRDNSSLKY  
KRLEDLGVPVTWHHMGDFHGVLRITDMSFLHFPCSMRILSALVQFVKGL

>sp|P40145|ADCY8\_HUMAN Adenylate cyclase type 8 OS=Homo sapiens GN=ADCY8 PE=1 SV=1

MELSDVRCLTGSEELYTIHPTTPAGDGRSASRPQRLLWQTAVRHTEQRFIHGHRGSGS  
SGSGSGKASDPAGGGPNHHAPQLSGDSALPLYSLGPGERAHSTCGTKVFPERSGSGSASG  
SGGGGDLGFLHLDCAPSNSDFLNGGYSYRGVIFPTLRNSFKSRDLERLYQRYFLGQRRK  
SEVVMNVLDVLTCLLVLHLSLASAPMDPLKGILLGFFTGIEVVICALVVVRKDTTSHT  
YLQYSGVVTWVAMTTQILAAGLGYLLGDGIGYVLFTLFATYSMLPLPLTWAILAGLGTS  
LLQVILQVVIPRLAVISINQVVAQAVLFMCMNTAGIFISYLSRAQRQAFLERRCVEAR  
LRLETENQRQERLVLVLPFRVLEMINDMTNVEDEHLHQHFHRIYIHRYENVSIKFADV  
KGFTNLSTTLAQELVRMLNELFARFDRLAHEHHCLRIKILGDCYYCVSGLPEPRQDHAH  
CCVEMGLSMIKTIRYVRSRTKHVDVMRIGIHSGLVCGVLGLRKWQFDVSWDVIDIANKL  
ESGGIPGRIHISKATLDCLNGDYNVEEGHGKERNEFLRKHNIEYLIKQPEDSLLSLPED  
IVKESVSSSDRRNSGATFTEGSWSPELPFDNIVGKQNTLAALTRNSINLLPNHLAQALHV  
QSGPEEINKRIEHTIDLRSGDKLRREHIKPFSLMFKDSSLEHKYSQMRDEVFKSNLVCAF  
IVLLFITAIQSLLPSSRVPMPTIQFSILIMLSALVLITTAEDYKCLPLILRKTCCWINE  
TYLARNVIIFASILNFGAILNILWCDFDKSIPLKNLTFNSSAVFTDICSYPEYFVFTG  
VLAMVTCAVFLRLNSVLKLAVLLIMIAIYALLTETVYAGLFLRYDNLNHSGEDFLGTKEV  
SLLLMMAMFLLAVFYHQQLLEYTARLDFLRVQAKKEINEMKELREHNENMLRNILPSHVA  
RHFLEKDRDNEELYSQSYDAVGVMFASIPGFADFYSTEMNQGVECLRLNEIIADFDE  
LLGEDRFQDIEIKITIGSTYMAVSGLSPEKQCCEDKWGHLCALADFSALTESIQEINKH  
SFNNFELRIGISHGSVAVGIGAKKPQYDIWGKTVNLASRMDSTGVSGRIQVPEETYLIL  
KDQGFADFYRGEIYVKGISEQEGKIKTYFLLGRVQPNPFIIPRRLPQGYSAAVVLGLV  
QSLNRQRQKQLLNENNTGIIKGHYNRRITLSPSGTEPGAQAEQTDKSDLP

>sp|P35611|ADDA\_HUMAN Alpha-adducin OS=Homo sapiens GN=ADD1 PE=1 SV=2

MNGDSRAAVVTSPPPTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSM  
ILQSPAFCEELESMIQEQFKKGKNPTGLLALQQIADFMTTNVNPVYAAPQGGMAALNMS  
LGMVTPVNDLRGSDSIAYDKGEKLLRCKLAIFYRLADLFGWSQLIYNHITTRVNSEQEHF  
LIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHSAIYAARPDVKCVVHI  
HTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR  
NHGLSVSGESVEEAFYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPV  
GEGTGSPPKWQIGEQFEALMRMLDNLGYRTGYPYRYPALREKSKKYSDEVPASVTGYS  
FASDGDSTGCSPLRHSFQKQKREKTRWLNSGRGDEASEEGQNGSSPKSKTKWTKEDGHRT  
STSAVPNLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVMDRSLVQGELVT  
ASKAIIKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGSEENLDEAREQKEKS  
PPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDLSPDEPSEALGFPMLEK  
EEEHRPPSPTEAPTEASPEPAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKKK  
KFRTPSFLKSKKKKSDS

>sp|Q9BQI0|AIF1L\_HUMAN Allograft inflammatory factor 1-like OS=Homo sapiens GN=AIF1L PE=1 SV=1

MSGELSNRFQGGKAFGLLKARQERRLAENREFLCDQKYSDEENLPEKLTAFKEKYMEFD  
LNNEGEIDLMSLKRMEKLGVPKTHLEMKKMISEVTGGVSDTISYRDFVNMMLGKRSAVL  
KLVMFEGKANESSPKPVGPPPERDIASLP

>sp|P55008|AIF1\_HUMAN Allograft inflammatory factor 1 OS=Homo sapiens GN=AIF1 PE=1 SV=1  
MSQTRDLQGGKAFGLLKAQQEERLDEINKQFLDDPKYSSDEDLPSKLEGFKKYMEFDLN  
GNGDIDIMSLKRMLEKLGVPKTHLELKKLIGEVSSGSETFSYPDFLRMMLGKRSAILKM  
ILMYEEKAREKEKPTGPPAKKAISELP

>sp|095831|AIFM1\_HUMAN Apoptosis-inducing factor 1, mitochondrial OS=Homo sapiens  
GN=AIFM1 PE=1 SV=1

MFRCGGLAAGALKQKLVPLVRTVCVRSPRQRNRLPGNLFQRWHVPLELQMTRQMASSGAS  
GGKIDNSVLVLIVGLSTVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEG  
EEVPQDKAPSHVPFLLIGGGTAAFAAARSIRARDPGARVLIVSEDPELPYMRPPLSKELW  
FSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGAVALTGKKVVQLDVRD  
NMVKLNDGSQITYEKCLIAATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV  
KSITIIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREG  
VKVMPNAIVQSVGVSSGKLLIKLDGRKVVTDHIVAAGLEPNVELAKTGGLIDSDFGG  
FRVNAELQARSNIWAGDAACFYDIKLGRRRVEHHDHAVVSGRLAGENMTGAAPYWHQS  
MFWSDLGPDVGYEAIGLVDSSLPTVGVFATAQDNPKSATEQSGTGIRSESETESEASE  
ITIPPSTPAVPQAPVQGEDYGGVIFYLVDKVVVGIVLWNIFNRMPIARKIIKDGEQHED  
LNEVAKLFNIHED

>sp|C9JRZ8|AK1BF\_HUMAN Aldo-keto reductase family 1 member B15 OS=Homo sapiens GN=AKR1B15  
PE=1 SV=2

MATFVELSTKAKMPIVGLGTWRSLLGKVKEAVKVAIDAERYRHIDCAYFYENQHEVGEATQ  
EKIQEKAVMREDLFIIVSKVWPTFFERPLVRKAFKTLKDLKLSYLDVYLHWPQGFKTGD  
DFFPKDDKGNMISGKGTFLDAWEAMEELVDEGLVKALGVSNFNHFQIERLLNKPGLKYKP  
VTNQVECHPYLTQEKLIIQYCHSKGITVTAYSPLGSPDRPWAKPEDPSLLEDPKIKEIAAK  
HKKTAAQVLIRFHIQRNVTVIPKSMTPAHIVENIQVFDFKLSDEEMATILSFNRNWRAFD  
FKEFSHLEDFPFDAEY

>sp|P42330|AK1C3\_HUMAN Aldo-keto reductase family 1 member C3 OS=Homo sapiens GN=AKR1C3  
PE=1 SV=4

MDSKHQCVKLNDFHMPVLGFGTYAPPEVPRSKALEVTKLATEAGFRHIDSAHLYNNEEQ  
VGLAIRSKIADGSVKREDIFYTSKLWSTFHRPELVRLPALENSLKAQLDYVDLYLIHSPM  
SLKPGEELSPTDENGKVIIFDIVDLCTTWEAMEKCKDAGLAKSIGVSNFNRRQLEMILNKP  
GLKYKPVNCNQECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDKRWDPNSPVLLEDPV  
LCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD  
RNLHYFNDSDFSHPNYPYSDEY

>sp|Q9UKA4|AKA11\_HUMAN A-kinase anchor protein 11 OS=Homo sapiens GN=AKAP11 PE=1 SV=1

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GFNEETDAAHIQDLAAVSLELPDILNSLHFCSLNENEIICMKNINKPLDISSDPLNQSHP  
SGMLCVMRVSPSPRLRIDFIFSLLSKYATGIRYTLDTFLHQKHQLETTDEDDDDTNQSV  
SSIEDDFVTAFEHLEEEETSKPYNDGMNITVLRSCDAASQTVTGHHLETHDLKILISSG  
QQKSLAKPSTSSVNLGHKELPSVKTSVTTSISEPWTQRSFYRSSNASDKDSLQKTFFS

SSPAYSSESECSSPSVIFLDEEGYQKSLKAKLELPKIPVMKDDIEDSDSEVSEFFDSFD  
QFDELEQTLETCLFNKDPVIGKSSQRKGHKHGKSCMNPQKFKFDRPALPANVRKPTPRKP  
ESPYGNLCDAPDSPRPVKASREDSGLFSPIRSSAFSPLGGCTPAECFCQTDIGGDRIHEN  
HDSVYYTYEDYAKSISCEVLGSVLRTHHTNTLSNINSIKHGENKTVTFKHGNLDQKNKSK  
NKSLMIKDSIQKFAADLVEKSFSGSAFKDLQKGVSSCTNALYHLAIKLTSSVLQMAFDEL  
RQRAFSLKERAISGLANFLVSEALSNALKDLQYVKKQIFTNTVARFAADLAEELVFEGIM  
EVCQFSYPQTPASPQCSFDFEDKVVKLYAKDLSSEVIQEAFIELSQVDVTFTTKAAVSV  
STDNIKYVSAESVVPSTQAVTFSPSFHNQAIMVTKPVQEYKKEYTVQQALFCTSGIVTSI  
PVPLAGSALLPYHISSTACQAKAHLSSDDSNSNGDSAQVHIATKNREEKAACLRNICLPS  
EHNPGNQNDFKPTNDDIEMQSSSKLPNDPAIISNFSAAVVHTIVNETLESMTSLEVTKMV  
DERTDYLTKSLKEKTPPFSHCDQAVLQCSEASSNKDMFADRLSKSIKHSIDKSKSVIPN  
IDKNAVYKESLPVSGEESQLTPEKSPKFPDSQNQLTHCSLSAAKDCVPECKVSMVHGSSL  
ETLPSCPAVTGQKSDLKESAKDQPLKKHNLNSTSLEALSFGQENPFPHSHTFSSTALTCV  
DGLHVEDKQKVRDRNVPDTPPSTPLVPSRASSEWDIKKLTCKLKGELAKEFAPATPPST  
PHNSSVGLSENEQNTIEKEEFMLKLMRSLSEEVESSESSELPEVDVKSEHSGKKVQFAE  
ALATHILSLATEMAASHLDNKIIQEPKVKNPCLNVQSQRSVSPTFLNPSDENLKTLCNFA  
GDLAAEVITEAEKIAKVRNCMLFKQKKNSCYADGDEDYKVEEKLDIEAVVHPREVDPFIL  
SLPPSSCMGLMYKYPSCESVTDEYAGHLIQILKQEGGNSLIMDQYANRLAYRSVKSGL  
QEAAKTTKVQCNSRMFPVPSSQVKTNKELLMFSNKEHHQEADKKRQSKRNEGYFCKNQTC  
ERTLDPYRNEVSQLYSFSTSLVHSITKDAKEELTASLVGLPKSLTDSCLFEKSGYEEDNE  
CHVTPELPKSLQPSQNHRYHSTGSLNGYCGDNVQAVEQYAKKVDDTLELTGSTV  
FRVSETTKSADRVTYAEKLSPLTGQACRYCDLKELHNCTGNSSQHFFRQGLASSKPASN  
PKFSSRYQKSRIHFLSVPQIHVNLDDKAVLAEKIVAEAIEKAERELSSTSLAADSGIGQE  
GASFAESLATETMTAAVTNVGHAVSSKEIEDFQSTESVSSQMNLSIGDDSTGWSNLS  
FEDEHQDESSSFHLSSENGNSSSWSSLGLEDLYEDNLSFPTSDSDGPDDKDEEHEDEV  
EGLGQDGKTLITNIDMEPCTVDPQLRIILQWLIASEAEVAELYFHDSANKEFMLLSKQL  
QEKGWKVGDLLQAVLQYYEVMKASSEERCKSLFDWLLNA

>sp|Q02952|AKA12\_HUMAN A-kinase anchor protein 12 OS=Homo sapiens GN=AKAP12 PE=1 SV=4

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QLSTINGVAEQDELSLQEGDLNGQKALNGQALNSQEEEEVIVTEVGQRDSEDVSKRDS  
DKEMATKSAVVHIDTDDGQEETPEIIEQIPSSSENLELTQPTESQANDIGFKVFKFVG  
FKFTVKKDKTEKPDTVQLLTVKKDEGEAGAAGADHKDPSLGAGEAASKESEPKQSTEKPE  
ETLKREQSHAEISPPAESGQAVEECKEEGEEKQEKEPSKSAESPTSPVTSETGSTFKKFF  
TQGWAGWRKKTFRKPKEDVEASEKKKEQEPEKVDTEEDGKAEVASEKLTASEQAHPQE  
PAESAHEPRLSAEYKVELPSEEQVSGSQGPSEEKPAPLATEVFDEKIEVHQEEVVAEVH  
VSTVEERTEEQKTEVEETAGSVPAEELVEMDAEPQEAEPAKELVKLKETCVSGEDPTQGA  
DLSPDEKVL SKPPEGVVSEVEMLSSQERMKVQGSPLKKLFTSTGLKKLSGKKQKGRGGG  
DEESGEHTQVPADSPDSQEEQKGESSASSPEEPPEITCLEKGLAEVQQDGEAEEGATSDG  
EKKREGVTPWASFKKMVTPKKRVRPSESDEKEDLDKVKSATLSSTESTASEMQEEMKGS  
VEEPKPEEPKRKVDTSVSWEALICVGSSKKRARRGSSSDEEGPKAMGGDHQKADEAGKD  
KETGTDGILAGSQEHDPGQSSSPEQAGSPTEGEGVSTWESFKRLVTPRKSKSKLEEK  
EDSIAGSGVEHSTPDTEPGKEESWVS IKKFIPGRRKKRPDGKQEAPVEDAGPTGANEDD  
SDVPAVVPLSEYDAVEREKMEAQQAQKSAEQPEQKAATEVSKELSESQVHMAAAVADGT  
RAATIIERSPSWISASVTEPLEQVEAEAALLTEEVLEREVIAEEEPPTVTEPLPENREA



RGDTVVSEAELTPEAVTAAETAGPLGAEEGTEASAAEETTEMVSAVSQLTDSPTTTEEAT  
PVQEVEGGVPDIEEQERRTQEVQLQAVAEKVKEESQLPGTGGPEDVLQPVQRAEAERPEEQ  
AEASGLKKETDVVLKVDAAQEAKTEPFTQGKVVGGTTPESEFEKAPQVTESIESSELVTTCQ  
AETLAGVKSQEMVMEQAIPPDSVETPTDSETDGSTPVADFDAPGTTQKDEIVEIHEENEV  
ASGTQSGGTEAEAVPAQKERPPAPSSFVFQEETKEQSKMEDTLEHTDKEVSVETVSILSK  
TEGTQEADQYADEKTKDVPFFEGLEGSIDTGITVSREKVTEVALKGEGTEEAECKKDDAL  
ELQSHAKSPSPVEREMVVQVEREKTEAEPHTVNEEKLEHETAVTVSEEVSKQLLQTVNV  
PIIDGAKEVSSLEGSPPPCLGQEEAVCTKIQQVSSSEASFTLTAAAEKVLGETANILET  
GETLEPAGAHVLLEKSSEKNEDFAAHPGEDAVPTGPDCQAKSTPVIVSATTKKGLSSDL  
EGEKTSLKWSDEVDEQVACQEVKVSVAIEDLEPENGILELETKSSKLQNIQTAVDQ  
FVRTEETATEMLTSELQTQAHVIKADSQDAGQETEKEGEEPQASAQDETPTSKEESES  
TAVGQAHSDISKDMSEASEKTMTEVEGSTVNDQQLLEEVLPSEEEGGAGTKSPEDDG  
HALLAERIEKSLVEPKEDKGDVDDPENQNSALADTDASGGLTKESPDTPNGPKQKEKED  
AQEVELQEGKVHSESDKAITPQAQEELQKQERESAKSELTES

>sp|O43687|AKA7A\_HUMAN A-kinase anchor protein 7 isoforms alpha and beta OS=Homo sapiens  
GN=AKAP7 PE=1 SV=4

MGQLCCFPFSRDEGKISELESSSAVLQRYSKDIPSWSSGEKNGGEPDDAELVRLSKRLV  
ENAVLKAVQQYLEETQNKPKGEGSSVKTEAADQNGNDNENNRK

>sp|Q9Y2D5|AKAP2\_HUMAN A-kinase anchor protein 2 OS=Homo sapiens GN=AKAP2 PE=1 SV=3

MEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVL  
EANCDSAVDGTNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNS  
SPDPMAEAERTNGHSPSQPRDALGDSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFE  
LRAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELEKERRELIRSQAVKKNPGIAAK  
WWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQEQQLLQKQLQQQQQPPSQLCTAPA  
SSHERASMDKAKEDIVTEQIDFSAARKQFQLMENSRAVAKGQSTPRLFSIKPFYRPLG  
SVNSDKPLTNRPSPVGGPPEDSGASAAKGQKSPGALETSAAGSQGNTASQGKEGPYSE  
PSKRGPLSKLWAEDGFTSARAVLTVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSV  
RSQDTTVLETLSNDFSMNIDSGASNETTNALQENSLADFSLPQTPQTDNPSEGRGEGV  
SKSFSDHGFYSPSSTLGDSPVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTSRDGAEQ  
QGPEATVEEAEEAAFGSEKPQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPL  
PAVQPSGPINMEETRPEGSYFSKYSEAAELRSTASLLATQESDMVGPFKLRSRKQRTLS  
MIEEIRAAQEREELKRQRQLQSTQSPRTKNAPSLPSRTCYKTAPGKIEKVKPPPSPT  
TEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHKSKRRERMDSSVLEATRVNRRKSA  
LALRWEAGIYANQEEEDNE

>sp|Q495B1|AKD1A\_HUMAN Ankyrin repeat and death domain-containing protein 1A OS=Homo  
sapiens GN=ANKDD1A PE=2 SV=2

MQEELAWETDGLPLERQLHEAARQNNVGRMQELIGRRVNTRARNHVGRVALHWAAGAGH  
EQAVRLLLEHEAAVDEEDAVGALTEARLCFGMNALLLSAWFGHLRILQILVNSGAKIHCE  
SKDGLTLLHCAAQKGHPVLAFIMEDLEDVALDHVDKLGRATFHRAAEHGQLDALDFLVG  
SGCDHNVKDEGNTALHLAAGRGHMAVLQRLVDIGLDLEEQNAEGLTALHSAAGGSHPDC  
VQLLLRAGSTVNALTQKNLSCLHYAALSGSEDVSRVLIHAGGCANVVDHQGASPLHLAVR  
HNFALVRLINSDSDVNAVDRQQTPHLAAEHAWQDIADMLLIAGVDLNLDRKQGKTA  
LAVAVRSNHVSLVDMIIKADRFYRWEKDHPSPSGKSLSFKQDHRQETQQLRSVLWRLAS  
RYLQPREWKKLAYSWEFTEAHVDAIEQQWTGTRSYQEHGHRMLLIWLHGVATAGENPSKA

LFEGLVAIGRRDLAGWSTMARSQTLTATSASRVQMILVPQPPE

>sp|Q9NWT8|AKIP\_HUMAN Aurora kinase A-interacting protein OS=Homo sapiens GN=AURKAIP1  
PE=1 SV=1

MLLGRLTSQLLRAVPWAGGRPPWPVSGVLGSRVCGPLYSTSPAGPGRAASLPRKGAQLEL  
EEMLVPRKMSVSPLESWLTARCFPLRLDTGTAGTVAPPQSYQCPSQIGEGAEQGDEGVA  
DAPQIQCKNVLKIRRRKMNNHHKYRKLVKKTRFLRRKVQEGRLRRKQIKFEKDLRRIWLKA  
GLKEAPEGWQTPKIYLRGK

>sp|P31751|AKT2\_HUMAN RAC-beta serine/threonine-protein kinase OS=Homo sapiens GN=AKT2  
PE=1 SV=2

MNEVSVIKEGWLHKRGEYIKTWRPRYFLLKSDGSFIGYKERPEAPDQTLPLNNSVAEC  
QLMKTERPRPNTFVIRCLQWTTVIERTFHVDSNDEREEWMRAIQMVANSLKQRAPGEDPM  
DYKCGSPSDSSTTEEMEVAVSKARAKVTMNDFDYLKLLGKGTFGKVILVREKATGRYYAM  
KILRKEV IIAKDEVAHTVTESRVLQNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFH  
LSRERVFTTEERARFYGAIEVSALEYLHSRDVVYRDIKLENMLDKDGHKIDTFGLCKEG  
ISDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVYEMMCGRLPFYNQDHERLFE  
LILMEEIRFPRTLSPKASLLAGLLKKDPKQRLGGGPSDAKEVMEHRFFLSINWQDVVQK  
KLLPPFKPQVTSEVDTRYFDDEFTAQSITITPPDRYDSLGLLELDQRTHFPQFSYSASIR  
E

>sp|Q9Y614|ACL7B\_HUMAN Actin-like protein 7B OS=Homo sapiens GN=ACTL7B PE=2 SV=1

MATRNPMPLGTAQGDPEAGTRPGPDASLRDTGAATQLKMKPRKVHKIKAVIIDLGSQY  
CKCGYAGEPRPTYFISSTVGKRCPEAADAGDTRKWTLVGHELLNTEAPLKLVNPLKHGIV  
VDWDCVQDIWEYIFRTAMKILPEEHAVLVSDPPLSPSSNREKYAELMFETFGIPAMHVT  
QSLLSIYSYGKTSGLVVESGHGVSHVVPISSEGDVLPGLTSRADYAGGDLTNYLMQLLNEA  
GHAFTDDHLHIIHIIKKCCYAAFLPEEELGLVPEELRVYELPDGKLITIGQERFRCSE  
MLFQPSLAGSTQGPLPELTAACLGRCQDTGFKEEMAANVLLCGGCTMLDGFPERFQRELS  
LLCPGDSPAVAAAAPERKTSVWTGGSILASLQAFQQLWWSKEEFEERGSVAIYSKC

>sp|Q9NPJ3|ACO13\_HUMAN Acyl-coenzyme A thioesterase 13 OS=Homo sapiens GN=ACOT13 PE=1  
SV=1

MTSMTQSLREVIKAMTKARNFERVLGKITLVSAAPGKVICEMKVEEHTNAIGTLHGGLT  
ATLVDNISTMALLCTERGAPGVSVMNITYMSPAKLGEDIVITAHVLKQGKTLAFTSVDL  
TNKATGKLIAQGRHTKHLGN

>sp|P21399|ACOC\_HUMAN Cytoplasmic aconitate hydratase OS=Homo sapiens GN=AC01 PE=1 SV=3

MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLEAAIRNCDEFLVKKQDI  
ENILHWNVTQHKNIEVPFKPARVILQDFTGVPVAVDFAAMRDAVKKLGGDPEKINPVC  
DLVIDHSIQVDFNRADSLQKNQDLEFERNRERFEFLKWSQAFHNMRIIPPGSGIIHQV  
NLEYLARVVFDQDGYYPDSLVTGDSHTTMDGLGILGWVGGEAEAVMLGQPISMVLP  
QVIGYRLMGKPHPLVTSTDIVLTITKHLRQGVVGKFEFFGPGVAQLSIADRATIANMC  
PEYGATAAFFPVDEVSITYLVQTRDEEKLKIKKYLQAVGMFRDFNDPSQDPDFTQVVE  
LDLKTVPCCSGPKRPQDKVAVSDMKKDFESCLGAKQGFGFQVAPEHHNDHKTFIYDNT  
EFTLAHGSVVIAAITSTNTSNPSVMLGAGLLAKKAVDAGLVNMPYIKTSLSPGSGVVTY  
YLQESGVMPYLSQLGFDVVGYGCMTCIGNSGPLPEPVVEAITQGDLVAVGVLSGNRFEG  
RVHPNTRANYLASPLVIAIYAIAGTIRIDFEKEPLGVNAKGQVFLKDIWPTRDEIQAVE  
RQYVIPGMFKEVYQKIETVNESWNALATPSDKLFFWNSKSTYIKSPFFENLTDLQPPK  
SIVDAYVLLNLGDSVTTDHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRGNDAVMA

RGTFANIRLLNRFNLKQAPQTIHLPSGEILDVFDAAERYQQAGLPLIVLAGKEYGAGSSR  
DWAAGPFLLGIKAVLAESYERIHRSNLVGMGVIPLEYLPGENADALGLTGQERYTIIIP  
ENLKPQMKVQVKLDTGKTFQAVMRFDTDVELTYFLNGGILNYMIRKMAK

>sp|000767|ACOD\_HUMAN Acyl-CoA desaturase OS=Homo sapiens GN=SCD PE=1 SV=2

MPAHLQDDISSSYTTTTITAPPSRVLQNGGDKLETMPLYLEDDIRPDIKDDIYDPTYK  
DKEGPSKVEYVWRNIILMSLLHLGALYGITLIPTCKFYTWLWGVFYFVSALGITAGAH  
RLWSHRSYKARLPLRLFLIIANTMAFQNDVYEWARDHRAHHKFSETHADPHNSRRGFFFS  
HVGWLLVRKHPAVKEGSTLDLSDLEAEKLVMFQRRYYKPGLMMCFILPTLVPWYFWGE  
TFQNSVFVATFLRYAVVLNATWLNSAAHLFGYRPYDKNISPRENIVSLGAVGEGFHNY  
HHSFPYDYSASEYRWHINFTTFFIDCMAALGLAYDRKKVSKAAILARIKRTGDGNYKSG

>sp|Q86TX2|ACOT1\_HUMAN Acyl-coenzyme A thioesterase 1 OS=Homo sapiens GN=ACOT1 PE=1 SV=1

MAATLILEPAGRCWCDEPVRIVRGLAPEQPVTLRASLRDEKGFQAHARYRADTLGEL  
DLERAPALGGSFAGLEPMGLLWALEPEKPLVRLVKRDVRTPLAVELEVLDGHDPDPGRLL  
CRVRHERYFLPPGVRREPVRAGRVRGTLFLPPEPGPFPGIVDMFGTGGGLLEYRASLLAG  
KGFVAMALAYNYEDLPKTMETLHLEYFEEAVNYLLSHPEVKGPVGGLLGISKGGELCLS  
MASFLKGITAAVINGSVANVGGLTRYKGETLPPVGVNRNRIKVTGDGYADIVDLNSPL  
EGPDQKSFIPVERAESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPQIICYPETGH  
YIEPPYFPLCRASLHALVGSPIIWGGEPRAHAMAQVDAWKQLQTFHKLGGHEGTIPSK  
V

>sp|O14561|ACPM\_HUMAN Acyl carrier protein, mitochondrial OS=Homo sapiens GN=NDUFAB1 PE=1  
SV=3

MASRVLSAYVSRLPAAFAPLPRVRMLAVARPLSTALCSAGTQTRLGTLQPALVLAQVPGR  
VTQLCRQYSMPPLTLEGIQDRVLYVLKLYDKIDPEKLSVNSHFMKDLGLDQLDQVEIIM  
AMEDEFGFEIPDIDAELMCPQEIVDYIADKKDVYE

>sp|Q9NUB1|ACS2L\_HUMAN Acetyl-coenzyme A synthetase 2-like, mitochondrial OS=Homo sapiens  
GN=ACSS1 PE=1 SV=2

MAARTLGRGVGRLLGSLRGLSGQPARPPCGVSAPRRAASGPSGAPAVAAAAAQPGSYPA  
LSAQAAAREPAAFWGPLARDTLVWDTPYHTVWDCDFSTGKIGWFLGGQLNVSNCLDQHVR  
KSPESVALIWERDEPGTEVRITYRELLETTCLRLANTLKRHGVHRGDRVAIYMPVSPLAVA  
AMLACARIGAVHTVIFAGFSAESLAGRINDAKCKVVITFNQGLRGGRVVELKKIVDEAVK  
HCPTVQHVLVAHRTDNKVHMGDLDPLEQEMAKEDPVCAPESMGSEDMLFMYLTSGSTGM  
PKGIVHTQAGYLLYAALTHKLVDHQPGDIFGCVADIGWITGHSYVVYGPLCNGATSVLF  
ESTPVYPNAGRYWETVERLKINQFYGAPTAVRLLLKYGDWVKKYDRSSLRTLGSVGEP  
NCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIAPRPSEEGAEILPAMAMRPFFGIVPVL  
MDEKGSVVEGNSVGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEG  
GYYQITGRMDDVINISGHRGTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKD  
SAGSDSVVQELKSMVATKIAKYAVPDEILVVKRLPKTRSGKVMRRLLRKIITSEAQELG  
DTTTLDEPSIIAEILSVYQKCKDKQAAAK

>sp|P68133|ACTS\_HUMAN Actin, alpha skeletal muscle OS=Homo sapiens GN=ACTA1 PE=1 SV=1

MCDEDETTALVCDNGSLVKAGFAGDDAPRAVFPISIVGRPRHQGMVGMGQKDSYVGDEA  
QSKRGILTLKYPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREK  
MTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRL  
DLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEK  
SYELPDGQVITIGNERFRCPETLQPSFIGMESAGIHETTYNSIMKCDIDIRKDLANNV

MSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWIT  
KQEYDEAGPSIVHRKCF

>sp|Q9BYD9|ACTT3\_HUMAN Actin-related protein T3 OS=Homo sapiens GN=ACTRT3 PE=2 SV=1  
MNHQCQLPVVIDNGSGMIKAGVAGCREPQFIYPNIIGRAKGQSRAAQGGLELCVGDQAQDW  
RSSLFISYPVERGLITSWEDMEIMWKHIYDYNLKLKPCDGPVLITEPALNPLANRQQITE  
MFFEHLGVPFYMISIQAVLALFAAGFTTGLVLNSGAGVTQSVPIFEGYCLPHGVQQDLDA  
GLDLTNYLMVLMKNHGIMLLSASDRKIVEDIKESFCYVAMNYEEEMAKKPCCLEKVYQLP  
DGKVIQLHDQLFSCPEALFSPCHMNLEAPGIDKICFSSIMKCDTGLRNSFFSNIILAGGS  
TSFPGLDKRLVKDIAKVAPANTAVQVIAPPERKISVWMGGSILASLSAFQDMWITAAEFK  
EVGPNIHVHQRCF

>sp|P42025|ACTY\_HUMAN Beta-centractin OS=Homo sapiens GN=ACTR1B PE=1 SV=1  
MESYDIIANQPVVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHMRVMAGALEGDLFIGP  
KAEHRGLLTIRYPMEHGVVRDWNMERIWQYVYSKDQLQTFSEHPVLLTEAPLNPSKN  
REKAAEVFFETFNPALFISMQAVLSLYATGRITGVVLDSDGDVTHAVPIYEGFAMPHSI  
MRVDIAGRDSRYLRLLRKEGVDFHTSAEFEVVRTIKERACYLSINPQKDEALETEKVQ  
YTLPDGSTLDVGPARFRAPELLFQPDLVGDESEGLHEVVAFAIHKSDMDLRRTLFANIVL  
SGGSTLFKGFGRLLSEVKKLAPDKIKISAPQERLYSTWIGGSILASLDTFKKMVWSK  
KEYEEDGSRAIHRKTF

>sp|O75078|ADA11\_HUMAN Disintegrin and metalloproteinase domain-containing protein 11  
OS=Homo sapiens GN=ADAM11 PE=2 SV=3  
MRLRRWFAALLSLLPTPGLGTQGPAGALRWGGLPQLGGPGAPEVTEPSRLVRESSGG  
EVRKQQLDTRVRQEPGPPVHLAQVSFVIPAFNSNFTLDLELNHLLSSQYVERHFSRE  
GTTQHSTGAGDHCYQGLRGNPHSFAALSTCQGLHGVFSDGNLTYIVEPQEVAGPWGAP  
QGGLPHLIYRTPLLPDLGCREPGCLFAVPAQSAPPNRPRLRRKRQVRRGHPTVHSETKY  
VELIVINDHQLFEQMRQSVVLTNSFAKSVVNLADVYKEQLNTRIVLVAMETWADGDKIQ  
VQDDLLETARLMVYRREGLPEPSDATHLFSGRTFQSTSSGAAYVGGICSLSHGGGVNEY  
GNMGAMAVTLAQTGLQNLGMMWNKHRSSAGDCKCPDIWLGCMEDTGFYLPKFSRCSID  
EYNQFLQEGGGSCLFNKPLKLLDPPECGNGFVEAGEECDGSGVQECSTRAGGNCKKCTLT  
HDAMCSDGLCCRRCKYEPRGVSCREAVNECDIAETCTGDSSQCPPNLHKLDGYCDHEQG  
RCYGGRCCKTRDRQCQVLWGHAADRFCYEKLNVEGTERGSCGRKGSWVQCSKQDVLCGF  
LLCVNISGAPRLGDLVGDISSVTFYHQGKELDCRGGHVQLADGSDLSYVEDGTACGPNML  
CLDHRCLPASAFNFSTCPGSGERRICSHHGVCSENEGKCICQPDWTGKDCSIHNPLTSP  
TGETERYKGPSGTNIIGSIAGAVLVAAIVLGGTGWGFKNIRGRSGGA

>sp|Q13444|ADA15\_HUMAN Disintegrin and metalloproteinase domain-containing protein 15  
OS=Homo sapiens GN=ADAM15 PE=1 SV=4  
MRLALLWALGLLGAGSPLPSWPLPNIGGTEEQAESEKAPREPLEPQVLQDDLPISLKKV  
LQTSLEPLRIKLELDGDSHILELLQNRELVPRPTLVWYQPDGTRVSEGHTELECCYQ  
GRVRGYAGSWVSICTCSGLRGLVLTPEPSYTLQGGPDLQGPPIISRIQDLHLPHTCA  
LSWRESVHTQKPPEHPLGQRHIRRDRVVTETKTVELVIVADHSEAQKYRDFQHLLNRTL  
EVALLLDTFFRPLNVRVALVGLEAWTQRDLVEISPNPAVTLENFLHWRRRAHLLPRLPHDS  
AQLVTGTSFSGPTVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAHELGHSLGLDHD  
PGNSPCPGPAPAKTCIMEASTDFLPGLNFSNCSRRALEKALLDGMGSCLFERLPSLPPM  
AAF CGNMVFVEPGEQCDGFLDDCDVPCCDSLTCQLRPGAQCASDGPCQCNCQLRPSGWQC  
RPTRGDCDLPEFCPGDSSQCPPDVSLGDGEP CAGGQAVCMHGR CASYAQQCQSLWGPGAQ

PAAPLCLQTANTRGNAFGSCGRNPSGSYVSCTPRDAICGQLQCQTGRTQPLLGSIRDLLW  
ETIDVNGTELNCSSWVHLDLGSQVAQPLLTLPGTACGGLVCIDHRCQRVDLLGAQECSK  
CHGHGVCDSNRHCYCEEGWAPPDCTTQLKATSSLTTGLLSLLVLLVLMGASYWYRAR  
LHQRLCQLKGPTCQYRAAQSGPSEPPQRRALLARGTKQASALSFPAPPSRPLPPDPVS  
KRLQAELADRPNPPTRLPADPVVRSPKSGPAKPPPPRKPLPADPQGRCPSGDLPGPGA  
GIPPLVPSRPAPPPPTVSSLYL

>sp|Q5VUY2|ADCL4\_HUMAN Arylacetamide deacetylase-like 4 OS=Homo sapiens GN=AADACL4 PE=3  
SV=1

MAVPWLVLALLALPIFFLGVFVWAVFEHFLTDDIPATLQHPAKLRFLHCIFLYLVTLGNIF  
EKLIGICSMPIKIRFLHDSVRIKKDPELVVTDLRFGTIPVRLFQPKAASSRPRRGIIFYHG  
GATVFGSLDCYHGLCNYLARETESVLLMIGYRKLDPHHSPLFQDCMNASIHFLKALETY  
GVDPSRVVVCESVGGAATAITQALVGRSDLPRIQAVLIYPVVQAFCLQLPSFQQNQ  
VPLLSRKFMVTSLCNYLAIDLSDRDAILNGTCVPPDVWRKYEWLSPDNIPKKFKNRGYQ  
PWSPGPFNEAAYLEAKHMLDVENSPLIADDEVIAQLPEAFVSCENDILRDDSLLYKKRL  
EDQGVVVTWYHLYDGFHGSIIFFDKKALSFPCKSLKIVNAVVSIIKGI

>sp|Q15847|ADIRF\_HUMAN Adipogenesis regulatory factor OS=Homo sapiens GN=ADIRF PE=1 SV=1  
MASKGLQDLKQQVEGTAQEAQVSAAGAAQVVDQATEAGQKAMDQLAKTTQETIDKTANQ  
ASDTFSGIGKKFGLLK

>sp|P35318|ADML\_HUMAN ADM OS=Homo sapiens GN=ADM PE=1 SV=1  
MKLVSVAMLYGLSLAFLGADTARLDVASEFRKKWNKWALSRGKRELRMSSSYPTGLADVK  
AGPAQTLIRPQDMKGASRPEDSSPDAAIRVKRYRQSMNNFQGLRSFGCRFGTCTVQKL  
AHQIYQFTDKDKDNVAPRSKISPQGYGRRRRRSLPEAGPGRTLVSQKPAHGAPAPPSGS  
APHFL

>sp|Q6IQ32|ADNP2\_HUMAN ADNP homeobox protein 2 OS=Homo sapiens GN=ADNP2 PE=1 SV=1  
MFQIPVENLDNIRKVRKKVKGILVDIGLDSCKELLKDLKGFDPGEKYFHNTSWGDSVSLWE  
PSGKKVRYRTKPYCCGLCKYSTKVLTSFKNHLHRYHEDEIDQELVIPCNCVFASQPKVV  
GRHFRMFHAPVRKVQNYTVNIGETKSSRSDVISFTCLKCNFSNTLYYSMKKHVLVAHFH  
YLINSYFGLRTEEMGEQPKTNDTVSIEKIPPPDKYYCKKCNANASSQDALMYHILTSDIH  
RDLENKLRSVISEHIKRTGLLKQTHIAPKPAHAAAPANGSAPSAPAQPPCFHLALPQNS  
PSPAAGQPVTVAQAGPSLTHSPPAAGQSHMTLVSSPLPVGQNSLTLPAPQPVFLSHG  
VPLHQSVNPPVPLPSQPVGPVNKSVGTSLVINQTVRPGVPLTPQVGPINRPVGPVLP  
VSPSVTPGVLQAVSPGVLVSRAVPSGVLPAGQMTAGQMTAGVIPGQTATSGVLPTGQ  
MVQSGVLPVGQTAPSRVLPQGTAPLRVISAGQVPSGLSPNQTVSSSAVVPVNGVNS  
GVLQLSQPVVSGVLPVGPVVRPGVLQNLQTVGTNLPVNQVVRPGASQNTTFTLTSGLR  
QLIPTGKQVNGIPTYTLAPVSVTLVPVPPGLATVAPPQMPIQLLPSGAAAPMAGSMGMP  
SPPVLVNAQSVFVQASSAADTNQVLKQAKQWKTCPVCNELFPSNVYQVHMEVAHKHSE  
SKSGEKLPEKLAACAPFLKWMREKTVRCLSCCLVSEELIHLLMHGLGCLFCPCTFH  
DIKGLSEHSRNRHLGKKKLPMDYSNRGFQLDVDANGNLLFPHLDFITILPKEKLGEREVY  
LAILAGIHSKSLVPVYKVRPAEGTPGSTGKRVSTCPFCGPFVTTEAYELHLKERHHI  
MPTVHTVLKSPAFKCIHCCGVYTGNTLAAIAVHLVRCRSAPKDSDDLQAQPGFIHNSE  
LLVSGEVMHDSSFSVKKLPDGLGAEDQRHGEEQPIINADAAPGPEKVTSVVPFKRQ  
RNESRTEGPIVKDEALQILALDPKKYEGRSYEEKKQFLKDYFHKKPYPSKKEIELLSSLF  
WWWKIDVASFFGKRRYICMKAIAKNHKPSVLLGFDMSSELKNVHRLNFEYEP

>sp|Q9Y6U3|ADSV\_HUMAN Adseverin OS=Homo sapiens GN=SCIN PE=1 SV=4

MARELYHEEFARAGKQAGLQVWRIEKLELVPVPQSAHGDFYVGDAYLVLHTAKTSRGFTY  
HLHFWLGKECSQDESTAAAIFTVQMDLYGGKPVQNRELQGYESNDFVSYFKGGLKYKAG  
GVASGLNHVLTNDLTAKRLLHVKGRRVVRATEVPLSWDSFNKGDCFIIDLGTETIYWCGS  
SCNKYERLKANQVATGIRYNERKGRSELIVVEEGSEPESELIKVLGEKPELPDGGDDDDII  
ADISNRKMAKLYMVSDASGSMRVTVVAEENPFMSMALLSEECFILDHGAAKQIFVWKGKD  
ANPQERKAAMKTAEEFLQQMNYSKNTQIQVLEGGETPIFKQFFKDWRDKDQSDGFGKVY  
VTEKVAQIKQIPFDASKLHSSPQMAAQHNMVDDGSGKVEIWRVENNGRIQVDQNSYGEFY  
GGDCYIILYTYPRGQIIYTWQGANATRDELTTSAFLTVQLDRSLGGQAVQIRVSQGKEPV  
HLLSLFKDKPLIIYKNGTSKKGGQAPAPPTRLFQVRRNLASITRIVEVDVDANSLNSNDV  
FVLKLPQNSGYIWWGKGASQEEKGAEYVASVLCKTLRIQEGEEPEEFWNSLGGKKDYQ  
TSPLLETQAEDHPRLYGCSNKTGRFVIEEIPGEFTQDDLAEDDVMLLDAWEQIFIWIGK  
DANEVEKKESLSAKMYLETDPGRDKRTPIVIIKQGHEPPTFTGWFLGWDSSKW

>sp|P12235|ADT1\_HUMAN ADP/ATP translocase 1 OS=Homo sapiens GN=SLC25A4 PE=1 SV=4

MGDHAWSFLKDFLAGGVAAVSKTAVAPIERVKLLLVQHASKQISAEKQYKGIIDCVVR  
IPKEQGFLSFWRGNLANVIRYFPTQALNFAFKDKYKQLFLGGVDRHKQFWRYFAGNLASG  
GAAGATSLCFVYPLDFARTLAADVKGAAQREFHGLGDCIIKIFKSDGLRGLYQGFNV  
VQGIIYRAAYFGVYDTAKGMLPDPKNVHIFVSWMIAQSVTAVAGLVSYPFDTVRRRMMM  
QSGRKGADIMYTGTVDCWRKIAKDEGAKAFFKGAWSNVLRGMGGAFLVLVLYDEIKKYV

>sp|Q8TF27|AGA11\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
11 OS=Homo sapiens GN=AGAP11 PE=2 SV=2

MTIISVTLEIHHTITERDADRSLTILDEQLYSFAFSTVHITKKRNGGSLNNYSSSIPLT  
PSTSQEDLYFSVPPTANTPTPICKQSMGWSNLTSEKGSDDPKGRKALESHADTIGSGRA  
IPIKQGMLLRSGKWLKTWKKKYVTLCNGVLTYYSGLDYMKNIHKKEIDLRTSTIKVP  
GKWPSLATSACAPISSSKSNGLSKDMEALHMSANSDIGLSDICFSPSISSTTSPKLNLP  
PSPHANKKKHLKKSTNNLKDDGLSSTAEEEEEFMIVSVTGQCHFKATTYEERDAWVQ  
AIQSQILASLQCESSKSKSQTLSQSEAMALQSIQNMGRNSHCVCETQNPKWASLNLGV  
LMCIECSGIHRSGLTRLSRVRSLELDDWPVELRKVMSSIGNDLANSIWEGSSQGQTKPSI  
ESTREEKERWIRSKYEHKLFLAPLPCTELSLGQHLLRATADEDLRTAILLLAHGSREEVN  
ETCEGEGDGTALHLACRKGNVLAQLLIWYGVDMARDAHGNTALTYARQASSQECINVL  
LQYGCPEDEV

>sp|Q96P47|AGAP3\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
3 OS=Homo sapiens GN=AGAP3 PE=1 SV=2

MNFQAGGGQSPQQQQLAGGPPQQFALSNSAAIRAEIQRFEVHPNIYAIYDLIERIEDL  
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SPEGGRFKKEIVVDGQSYLLLIRDEGGPELQFAAWVDVVFVFSLEDEISFQTVYNYFL  
RLCSFRNASEVPMVLVGTQDAISAANPRVIDDSRARKLSTDLKRCTYYETCATYGLNVER  
VFQDVAQKVVALRKQQLAIGPCKSLPNSPSHSAVSAASIPAVHINQATNGGSAFSDYS  
SSVPSTPSISQRELRIETIAASSTPTPIRKQSKRRSNIFTSRKGADLDREKKAEECKVDS  
IGSGRAIPIKQIGLLKRSKSLNKEWKKKYVTLCNGLLTYHPSLHDYMQNIHGKEIDLL  
RTTVKVPKRLPRATPATAPGTSPRANGLSVERSNTQLGGGTGAPHSASSASLHSEPLS  
SSAWAGPRPEGLHQSCSVSSADQWSEATSLPPGMQHPASGPAEVLSSSPKLDPPPSPH  
SNRKKHRRKKSTGTPRPDGPSSATEEAESFEFVVVSLTGQTHWFEASTAEERELWVQSV  
QAQILASLQGCRSAKDKTRLGNQNAALAVQAVRTVRGNSFCIDCDAPNPDWASNLGALM  
CIECSGIHRHLGAHLSRVRSLELDDWPPELLAVMTAMGNALANSVWEGALGGYSKPGPDA

CREEKERWIRAKYEQKLFLAPLPSSDVPLGQQLLRAVVEDDLRLVMLLAHGSKEEVNET  
YGDGDGR TALHLSSAMANVFTQLLIWYGVDRSRDARGLTPLAYARRAGSQECADILIQ  
HGCPGEGCGLAPTPNREPANGTNPSAELHRSPSLL

>sp|Q9UKV8|AGO2\_HUMAN Protein argonaute-2 OS=Homo sapiens GN=AGO2 PE=1 SV=3

MYSGAGPALAPPAPPPPIQGYAFKPPRPDFGTSGRTIKLQANFFEMDIPKIDIYHYELD  
IKPEKCPRRVNREIVEHMQHFQKQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTL  
GEGKDRIFKVS IKWVSCVSLQALHDALSGRLPSVPFETIQALDVVMRHLPSMRYTPVGRS  
FFTASEGCSNPLGGGREVWFGFHQSVRPSLWKMLNIDVSATAFYKAQPVIEFVCEVLD  
KSIEEQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQQES  
GQTVECTVAQYFKDRHKLVLRYPHLPCLQVGGEQKHTYLPLEVCNIVAGQRCIKKLT  
DNQTSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPP  
SILYGGRNKAIATPVQGVDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFT  
EQLRKISR DAGMPIQGGPCFCKYAQGADSV EPMFRHLKNTYAGLQLVVVILPGKTPV  
YAEVKRVGDTVLGMATQCVQMKNVQRTTPQTLNLCLKINVKLGGVNNILLPQGRPPV  
FQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVRVQQHRQEIIQDLAAM  
VRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDYQPGIT  
FIVVQKRHHTRLFCTDKNERVGKSGNIPAGTTVDTKITHPTDFYLCSHAGIQGTSRPS  
SHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSIPAPAYYHLVAFRARYHLVDKEH  
DSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA

>sp|O95994|AGR2\_HUMAN Anterior gradient protein 2 homolog OS=Homo sapiens GN=AGR2 PE=1 SV=1

MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE  
ALYKSKTSNKPLMI IHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP  
DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALLDNMCKALKLLKTEL

>sp|Q7Z7M1|AGRD2\_HUMAN Adhesion G-protein coupled receptor D2 OS=Homo sapiens GN=ADGRD2 PE=2 SV=1

MDAPWGAGERWLHGA AVDRSGVSLGPPPTPVNQGT LGPQVAPVAAGEVVKTAGGVCKFS  
GQRLSWWQAQESCEQQFGHLALQPPDGVLASRLRDPVWVGQREAPLRPPQRRARTTAVL  
VFDERTADRAARLSRPLPELAALTACTHVQWDCASPDPAALFSVAAPALPNALQLRAFAE  
PGGVVRAALVVRGQHAPFLAAFRADGRWHHVCATWEQRGGRWALFSDGRRRAGARGLGAG  
HPVPSGGILVLGQDQDSLGGGFSVRHALSGNLTD FHLWARALSPAQLHRARACAPPSEGL  
LFRWDPGALDVTPSLLPTVWVRLLCPVPSEECPTWNPGPRSEGSELCLEPQPFLCCYRTE  
PYRRLQDAQSWPGQDVISR VNALANDIVLLPDPLSEVHGALSPA EASSFLGLEHVLAME  
MAPLGPAALLAVVRFLKRVALGAGDPELLLTGPWEQLSQGVVSVASLVLEEQVADTWLS  
LREVI GGPMALVASVQRLAPLLSTSMTSERPRMRIQHRHAGLSGVTVIHSWFTSRVFQHT  
LEGPDLEPQAPASSEANRVQRFLSTQVGS AIISSSEVWDVTGEVNVAMTFHLQHRAQSPL  
FPPHPPSPYTGGAWATTGCSVAALYLDSTACFCNHSTSFAILLQIYEVQRGPEEESLLRT  
LSFVGGCVSFCALTTFLLFLVAGVPK SERTTVHKNLTFSLASAEGFLMTSEWAKANEVA  
CVAVTVAMHFLFLVAFSWM LVEGLLLWRKVAVSMHPGPGMRLYHATGWGVPVGIVAVTL  
AMLPHDYVAPGH CWLNVHTNAI WAFVGPVLFVLTANTCILARVVMITVSSARRRRARMLSP  
QPCLQQQIWTQIWATVKPVLVLLPV LGLTWLAGILVHLSPA WAYAAGVGLNSIQGLYIFLV  
YAACNEEVRSALQ RMAEKKVAEVLRALGVWGGA AKEHSLPFSVLPLFLPPKPSTPRHPLK  
APA

>sp|Q9BY15|AGRE3\_HUMAN Adhesion G protein-coupled receptor E3 OS=Homo sapiens GN=ADGRE3  
PE=2 SV=2

MQGPLLLPGLCLLSLFGAVTQKTKTSCAKCPPNASCVNTHCTCNHGYTSGSGQKLFTF  
PLETCNDINECTPPYSVYCGFNAVCYNVEGSFYCQCVPGYRLHSGNEQFSNSNENTCQDT  
TSSKTTEGRKELQKIVDKFESLLTNQTLWRTEGRQEISSTATTILRDVESKVLETALKDP  
EQKVLKIQNDSVAIETQAITDNCSEERKTFNLNVQMNSMDIRCSDDIIQGDTQGPSAIAFI  
SYSSLGNIINATFFEEMDKKDQVYLSQVVSAAIGPKRNVSLSKSVTLTFQHVKMTPSTK  
KVFCVYWKSTGQGSQWSRDGCFILHVNKSHTMCNCSHLSSFAVLMALTSQEEDPVLTVIT  
YVGLSVSLLCLLLAALTFLLCFAIRNTSTSLHLQLSLCLFLAHLFLVIGDRTEPKVLCS  
IIAGALHYLYLAAFTWMLLEGVHLFLTARNLTVVNYSSINRLMKWIMFPVGYGVPVAVTVA  
ISAASWPHLYGTADRCWLHLDQGFMSFLGPVCAIFSANLVLFILVFWILKRKLSSLNSE  
VSTIQNTRMLAFKATAQLFILGCTWCLGLLQVGPAQVMAYLFTIINSLQGFFIFLVYCL  
LSQQVQKQYQKWFREIVKSKSESETYTLSSKMGPDSKPSGDFVPGQVKRKY

>sp|Q8IZP9|AGRG2\_HUMAN Adhesion G-protein coupled receptor G2 OS=Homo sapiens GN=ADGRG2  
PE=1 SV=2

MVFSVRQCGHVGRTTEEVLLTFKIFLVIICLHVVLVTSLEEDTDNSSLSPPPAKLSVVSFA  
PSSNGTPEVETSLNDVTLSELLPSNETEKTITIVKTFNASGVKPKQRNICNLSSICNDSA  
FFRGEIMFYQDKESTVPQNHITNGTLTGVLSELKRSELNKTQLTSETYFIMCATAE  
AQSTLNCTFTIKLNTMNACAVIAALERVKIRPMEHCCCSVRIPCPSSPEELEKLQCDLQ  
DPVIVCLADHPRGPPFSSSSQIPVVPRAVLSQVPKATSFAPPDYSPVTHNVPSPIGEIQ  
PLSPQPSAPIASSPAIDMPQSETISSPMPQTHVSGTPPPVKASFSSPTVSAPANVNTTS  
APPVQTDIVNTSSISDLENQVLQMEKALSLGLEPNLAGEMINQVSRLHSPDMLAPLA  
QRLLKVDDIGLQLNFSNTTISLTSPSLALAVIRVNASSFNTTTFVAQDPANLQVSLETQ  
APENSIGTITLPSLLMNNLPAHDMELASRVQFNFFETPALFQDPSLENLSLISYVISSSV  
ANLTVRNLTRNVTVTLKHINPSQDELTVRCVFWDLGRNGGRGGWSDNGCSVKDRRLNETI  
CTCSHLTSFGVLLDLSRTSVLPAQMMALTFITYIGCLSSIFLSVTLVTYIAFEKIRRDI  
PSKILIQCAALLLNLFLLDSWIALYKMQGLCISVAVFLHYFLLVSFTWMGLEAFHMY  
LALVKVFNTYIRKYILKFCIVGWGVPVAVVTIILTISPDPNYGLGSYGKFPNGSPDDFCWI  
NNNAVFIYITVVGFCVIFLLNVSMFIVVLVQLCRIKKKKQLGAQRKTSIQDLRSIAGLTF  
LLGITWGAFFAWGPVNVTFMYLFAIFNTLQGFFIFIFYCVAKENVRKQWRRYLCCGKLR  
LAENSDWSKTATNGLKKQTVNQGVSSSSNSLQSSSNSTNSTLLVNDCSVHASGNGNAS  
TERNGVSFSVQNGDVLHDFGTGKQHMFKEDSCNGKGRMALRRTSKRGLHFIQEM

>sp|Q9HAR2|AGRL3\_HUMAN Adhesion G protein-coupled receptor L3 OS=Homo sapiens GN=ADGRL3  
PE=1 SV=2

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TDDKICSDPAQMENIRCYLPDAYKIMSQRCCNRTQCAVVAGPDVFPDPCPGTYKYLEVQ  
YECVPYKVEQKVFLCPGLLKGVYQSEHLFESDHQSGAWCKDPLQASDKIYMPWTPYRTD  
TLTEYSSKDDFIAGRPTTTYKLPHRVDGTGFVVYDGFALFFNKERTRNIVKFDLRTRIKSG  
EAIIANANYHDTSPYRWGGKSDIDLAVDENGLWVIYATEQNNGKIVISQLNPYTLRIEGL  
WDTAYDKRSASNAFMICGILYVVKSVYEDDDNEATGNKIDYIYNTDQSKDSLVDVFPFNS  
YQYIAAVDYNPRDNLVWNNYHVVKYSLDFGLDSRSGGAHHGQVSYISPPIHLDSELE  
RPSVKDISTTGPLMGSTTTSTTLRTTTLSPGRSTTPSVSGRRNRSTSTPSPAVEVLDDM  
TTHLPSASSQIPALEESCEAVEAREIMWFKTRQGQIAKQPCPAGTIGVSTYLCLAPDGIW  
DPQGPDLNCSPPWNHITQKLKSGETAANIARELAEQTRNHLNAGDITYSVRAMDQLVG



LLDVQLRNLTPGGKDSAARSLNKAMVETVNNLLQPQALNAWRDLTSDQLRAATMLLHTV  
EESAFVLADNLLKTDIVRENTDNIKLEVARLSTEGNLEDLKFPENMGHGSTIQLSANTLK  
QNGRNGEIRVAFVLYNNLGPYLSTENASMKLGTEALSTNHSVIVNSPVITAAINKEFSNK  
VYLADPVVFTVKHIKQSEENFNPNCSFWSYSKRTMTGYWSTQGCRLLTNTKHTTTCSCNH  
LTNFAVLMHVEVKHSDAVHDLDDVITWVGILLSLVCLLICIFTFCFFRGLQSDRNTIH  
KNLCISLFFVAELLFLIGINRTDQPIACAVFAALLHFFFLAAFTWMFLEGVQLYIMLVEVF  
ESEHSRRKYFYLVGYGMPALIVAVSAVDYRSYGTDKVCWLRLDTYFIWSFIGPATLIIM  
LNVIFLGIALYKMFHHTAILKPESGCLDNISWVIGAIALLCLLGLTWAFGLMYINESTV  
IMAYLFTIFNSLQGMFIFIFHCVLQKKVRKEYGKCLRTHCCSGKSTESSIGSGKTSGSRT  
PGRYSTGSQSRIRRMWNDTVRKQSESSFITGDINSSASLNREGLLNARDTSVMDTLPLN  
GNHGNSYSIASGEYLSNCVQIIDRGYNHNETALEKKILKELTSNYIPSYLNNHERSSEQN  
RNL MNKLVNNL GSGREDDAIVLDDATSFNHEESLGLLEIHEESDAPLLPPRVYSTENHQP  
HHYTRRRIPQDHSEFFPLLTNEHTEDLQSPHRDSLYTSMPTLAGVAATESVTTSTQTPEP  
PPAKCGDAEDVYYKSMPNLGSRNHVHQLHTYYQLGRGSSDGFIVPPNKDGTPEGSSSKGP  
AHLVTSL

>sp|000253|AGRP\_HUMAN Agouti-related protein OS=Homo sapiens GN=AGRP PE=1 SV=1  
MLTAAVLSCALLLALPATRGAQMGLAPMEGIRRPDQALLPELPGLGLRAPLKTTAEQAE  
EDLLQEAQALAEVLDLQDREPRSSRRCVRLHESCLGQQVPCDPCATCYCRFFNAFCYCR  
KLG TAMNPCSRT

>sp|P35869|AHR\_HUMAN Aryl hydrocarbon receptor OS=Homo sapiens GN=AHR PE=1 SV=2  
MNSSSANITYASRKRKRPVKTKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDV  
INKLDKLSVLRLSVSYLRAKSFDDVALKSSPTERNGGQDNCRAANFREGLNLQEGEFLLQ  
ALNGFVLVTTDALVFYASSTIQDYLGQQSDVIHQSVYELIHTEDRAEFQRQLHWALNP  
SQCTESGQGIEEATGLPQTVCYNPDQIPPENSPLMERCFCRLRCLLDNSSGFLAMNFQ  
GKLKYLHGQKKKGKDGSIPLPQLALFAIATPLQPPSILEIRTKNFIKRTKHKLDFTPIGC  
DAKGRIVLGYTEAELCTRGSGYQFIHAADMLYCAESHIRMIKTGESGMIVFRLLTKNNRW  
TWVQSNARLLYKNGRPDIIVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLYEATNPF  
PAIMDPLPLRTKNGTSGKDSATTSTLSKDSLNPSSLLAAMMQQDESIYLPASSTSTAP  
FENFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAGGHPGLFQDSKNSDLY  
SIMKNLGIDFEDIRHMQNEKFFRNDFSGEVDFRDLTDEILTYVQDSLKSPFIPSDYQ  
QQQSLALNSSCMVQEHLEQQQHHQKQVVVEPQQQLCQKMKHMVNGMFENWNSNQFV  
PFNCPPQDPQQYNVFTDLHGISQEFQYKSEMDSPYTQNFISCNQPVLPQHSKCTELDYP  
MGSFEPSPYPTTSSLEDVFTCLQLPENQKHGLNPQSAIITPQTCYAGAVSMYQCQPEPQH  
THVGQMYPNPVLPQQQAFLNKFQNGVLNETYPAELNNINNTQTTHLQPLHHPSEARFPF  
DLTSSGFL

>sp|Q9GZX7|AICDA\_HUMAN Single-stranded DNA cytosine deaminase OS=Homo sapiens GN=AICDA  
PE=1 SV=1  
MDSLLMNRKFLYQFKNVRWAKGRRETYLCYVVKRRDSATSFSLDFGYLRNKGCHVELL  
FLRYISDWLDLPGRCYRVTWFTSWSPCYDCARHVADFLRGPNLSLRIFTARLYFCEDRK  
AEPEGLRRLHRAGVQIAIMTFKDYFYCWNTFVENHERTFKAWEGHENSVRLSRQLRRIL  
LPLYEVDDL RDAFRTLGL

>sp|O14862|AIM2\_HUMAN Interferon-inducible protein AIM2 OS=Homo sapiens GN=AIM2 PE=1 SV=1  
MESKYKEILLTGLDNITDEELDRFKFLLSDEFNIATGKLHTANRIQVATLMIQNAGAVS  
AVMKTIRIFQKLNMYLLAKRLQEEKEKVDKQYKSVTKPKPLSQAEMSPAASAAIRNDVAK

QRAAPKVSPhVKPEQKQMVAAQESIREGFQKRCLPVMVLKAKKPFTFETQEGKQEMFHAT  
VATEKEFFVVKVFNLTLLKDKFIPKRIII IARYYRHSGFLEVNSASRVLDAESDQKVNPL  
NIIRKAGETPKINTLQTQPLGTIVNGLFVVQKVTEKKKNILFDLSDNTGKMEVLGVRNED  
TMKCKEGDKVRLTFFTL SKNGEKLQLTSGVHSTIKVIKAKKKT

>sp|Q16352|AINX\_HUMAN Alpha-internexin OS=Homo sapiens GN=INA PE=1 SV=2

MSFGSEHYLCSSSSYRKVFGDGSRLSARLSGAGGAGGFRSQSLSRSNVASSAACSSASSL  
GLGLAYRRPPASDGLDLSQAAARTNEYKII RTNEKEQLQLNDRFAVFIEKVHQLTQNR  
ALEAELAALRQRHAEPSRVGELFQRELRLRAQLEEASSARSQALLERDGLAEVQRLRA  
RCEESRGREGAERALKAAQQRDVGATLARLDLEKKVESLLDELAFVRQVHDEEVAELLA  
TLQASSQAAA EVDVTVAKPDLTSALREIRAQYESLAAKNLQSAEEWYKSKFANLNEQAAR  
STEAIRASREEIHEYRRLQARTIEIEGLRGANESLERQILELEERHSAEVAGYQDSIGQ  
LENDLRNTKSEMARHLREYQDLLNVKMALDIEIAAYRKLEGEETRFSTSGLSISGLNPL  
PNPSYLLPPRILSATTSKVSS TGLSLKKEEEEEEEASKVASKKTSQIGESFEEIleetvis  
TKKTEKSNIETTISQKI

>sp|Q9NZN9|AIPL1\_HUMAN Aryl-hydrocarbon-interacting protein-like 1 OS=Homo sapiens  
GN=AIPL1 PE=1 SV=2

MDAALLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMH  
IIIGNMFKLEVWEILLTSMRVHEVAEFWCDTIHTGVYPILSRSLRQMAQKDPTEWHVHT  
CGLANMFAYHTLGYEDLDELQKEPQLVFVIELLQVDAPSDYQRETWNLSNHEKMAVPV  
LHGEGRNLFKLGRYEEASSKYQEAII CLRNLQTKKPWEVQWLKLEKMINTLILNYCQCL  
LKKEEYVELEHTSDILRHHPGIVKAYYVRARAHA EVWNEAEAKADLQKVLELEPSMQKA  
VRRELRLLENRMAEKQEERLRCRNMLSQGATQPPAEPPTEPQAQSSTEPPAEPPTAPSA  
ELSAGPPAEPATEPPPPSPGHSLQH

>sp|Q9UKB5|AJAP1\_HUMAN Adherens junction-associated protein 1 OS=Homo sapiens GN=AJAP1  
PE=1 SV=1

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PRLWSFRSGQPARVPAPVWSPRPPRVERIHGQMMPRARRAHRPRDQAAALVPKAGLAKP  
PAAAKSSPSLASSSSSSSAVAGGAPEQQALLRRGKRHLQGDGLSSFDSRGSRP TTETEF  
IAWGPTGDEEALESNTFPGVYGPTTVSILQTRKTTVAATTTTTTTATPMTLQTKGFTESL  
DPRRRIPGGVSTTEPSTSPSNNGEVTQPPRILGEASGLAVHQIITITVSLIMVIAALITT  
LVLKNCCAQSGNTRNRNSHQRTNQQEESCQNLTDFPSARVPSSLDIFTAYNETLQCSHEC  
VRASVPVYTDETHSTTGEYKSTFNNGRNPSSDRHLIPVAFVSEKWF EISC

>sp|Q15822|ACHA2\_HUMAN Neuronal acetylcholine receptor subunit alpha-2 OS=Homo sapiens  
GN=CHRNA2 PE=1 SV=2

MGPSCPVFLSFTKLSLWLLLLTPAGGEEAKRPPPRAPGDPLSSPSPTALPQGGSH TETED  
RLFKHLFRGYNRWARVPNTSDVVI VRFGLSIAQLIDVDEKNQMMTTNVWLKQEWSDYKL  
RWNPTDFGNITSLRPSEMIWIPDIVLYNNADGEFAVTHMTKAHLFSTGTVHWVPPAIYK  
SSCSIDVTFFPFDQNCMKMFGSWTYDKAKIDLEQMEQTVDLKDYWESGEWAIVNATGTY  
NSKKYDCCAEIYPDVTYAFVIRRLPLFY TINLIIPCLLISCLTVLVFYLP SDCGEKITLC  
ISVLLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTL SIVITVFVLNVHHRSPSTH  
TMPHWVRGALLGCVPRWLLMNRPPPPVELCHPLRLKLSPSYHWLESNVDAEEREVVVEEE  
DRWACAGHVAPSVGTLCSHGHLHSGASGPKAEALLQEGELLSPHMQKALEGVHYIADHL  
RSEDADSSVKEDWKYVAMVIDRIFLWLFII VCFLGTIGLFLPPFLAGMI

>sp|P32297|ACHA3\_HUMAN Neuronal acetylcholine receptor subunit alpha-3 OS=Homo sapiens  
GN=CHRNA3 PE=1 SV=4

MSGGPLSLPLALSPRLLLLLLLLSLLPVARASEAEHRLFERLFEDYNEIIRPVANVSDPV  
IIHFEVMSQLVKVDEVNQIMETNLWLKQIWNDYKLKWNPSDYGGAEFMRVPAQKIWKPD  
IVLYNNAVGDVFQVDDKTKALLKYTGEVTWIPPAIFKSSCKIDVTYFPFDYQNCTMKFGSW  
SYDKAKIDLVLIGSSMNLKDYWESGEWAIKAPGYKHDIKYNCCIEIYPDITYSLYIRRL  
PLFYTNLIIPCLLISFLTIVLVFYLPSCDGEKVTLCISVLLSLTVFLLVITETIPSTSLV  
IPLIGEYLLFTMIFVTLISIVITVFVLNVHYRTPTTHTMPSWVKTVFLNLLPRVMFMTRPT  
SNEGNAQKPRPLYGAELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRIKISNFSANLT  
RSSSESVDVAVLSLSALSPEIKEAIQSVKYIAENMKAQNEAKEIQDDWKYVAMVIDRIFL  
WVFTLVCILGTAGLFLQPLMAREDA

>sp|Q15825|ACHA6\_HUMAN Neuronal acetylcholine receptor subunit alpha-6 OS=Homo sapiens  
GN=CHRNA6 PE=2 SV=1

MLTSKGQGFHLGGLCLWLCVFTPFKGCVCATEERLFHKLFSHYNQFIRPVENVSDPVT  
VHFEVAITQLANDEVNQIMETNLWLRHIWNDYKLWDPMEYDGIETLRVPADKIWKPDI  
VLYNNAVGDVFQVEGKTKALLKYNGMITWTPPAIFKSSCPMDITFFPFHQNC SLKFGSWT  
YDKAEIDLLIIGSKVDMNDFWENSEWEIIDASGYKHDIKYNCCIEIYTDITYSFYIRRLP  
MFYTINLIIPCLFISFLTIVLVFYLPSCDGEKVTLCISVLLSLTVFLLVITETIPSTSLVV  
PLVGEYLLFTMIFVTLISIVVTVFVLNIHYRTPTTHTMPRWVKTVFLKLLPQVLLMRWPLD  
KTRGTGSDAVPRGLARRPAKGLASHGEPRHLKECFHCHKSNE LATSKRRLSHQPLQWVV  
ENSEHSPEVEDVINSVFIAENMKSHNETKEVEDDWKYVAMVVD RVFLWVFIIVCVFGTA  
GLFLQPLLGN TGKS

>sp|P36544|ACHA7\_HUMAN Neuronal acetylcholine receptor subunit alpha-7 OS=Homo sapiens  
GN=CHRNA7 PE=1 SV=5

MRCSPGGVWLALASLLHVS LQGEFQRKLYKELVKNYNPLERP VANDSQPLTVYFSLSLL  
QIMDVDEKNQVLT TNIW LQMSWTDHYLQWNVSEYPGVKTVRF PDGQIWKPDILLYNSADE  
RFDATFHTNVLVNSSGHCQYLP PGIFKSSCYIDVRWFPFDVQHCKLKFGSWSYGGWSLDL  
QMQEADISGYIPNGEWDLVGIPGRSERFYECCKEPYDPVTFTVTMRRRTLYYGLNLLIP  
CVLISALALLVFLLPADSGEKISLGITVLLSLTVFMLLVAEIMPATSDSVPLIAQYFAST  
MIIVGLSVVVTVIVLQYHHHPDGGKMPKWTRVILLNWCAWFLRMKRPGEDKVRPACQHK  
QRRCSLASVEMSAVAPPASNGNLLYIGFRGLDGVHCVTPD SGVVCGRMACSPTHDEHL  
LHGGQPPEGDPDLAKILEEVRYIANRFRQCDESEAVCSEWKFAACVVDRLCLMAFSVFTI  
ICTIGILMSAPNFVEAVSKDFA

>sp|O00590|ACKR2\_HUMAN Atypical chemokine receptor 2 OS=Homo sapiens GN=ACKR2 PE=1 SV=2

MAATASPQPLATEDADSENSSFYYDYLD EFAFMLCRKDAVVSFGKVFLPVFYSLIFVLG  
LSGNLLLLMVLLRYVPRRRMVEIYLLNLAISNLLFLVTL PFWGISVAWHWVFGSFLCKMV  
STLYTINFYSGIFFISCMSLDKYLEIVHAQPYHRLRTRAKSLLLATIVAVSLAVSIPDM  
VFVQTHENPKG VWNCHADFGGHGTIWKLFLRFQQLLGFLPLLAMIFFYSRIGCVLVR  
LPAGQGRALKIAALVVAFFVLWFPYNLTFLH TLLDLQVFGNCEVSQHLDYALQVTESI  
AFLHCCFSPILYAFSSHRFRQYLKAFLAAVLGWHLAPGTAQASLSSCESSILTAQEEMT  
GMNDLGERQSENYPNKEDVGNKSA

>sp|P53396|ACLY\_HUMAN ATP-citrate synthase OS=Homo sapiens GN=ACLY PE=1 SV=3

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPD  
QLIKRRGKGLGVGNLTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAE EFY

VCIIATREGDYVLFHHEGGVDVGVDADAQKLLVGVDEKLNPEDIKKHLLVHAPEDKKEI  
LASFISGLFNFYEDLYFTYLEINPLVVTKDGYYVLDLAAKVDATADYICKVKWGDIEFPP  
PFGREAYPEEAYIADLDAKSGASLKL TLLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE  
LANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKIL IIGGSIANFTNVAATFKGIVRA  
IRDYQGGLKEHEVTIFVRRGGPNYQEGLRVMGEVGKTTGIP IHVFGTETHMTAIVGMALG  
HRPIPNQPPTAAHTANFLLNASGSTSTPAPSRTASFSESRADEVAPAKKAKPAMPQDSVP  
SPRSLQGKSTTLFSRHTKAIVWGMQTRAVQGMLDFDYVCSRDEPSVAAMVYPFTGDHKQK  
FYWGHKEILIPVFKNMADAMRKHPVDVLINFASLRSAYDSTMETMNYAQIRTI AIIAEG  
IPEALTRKLIKADQKGVTTIIGPATVGGIKPGCFKIGNTGGMLDNILASKLYRPGSVAYV  
SRSGGMSNELNNIISRTTDGVYEGVAIGGDYRPGSTFMDHVLRYQDTPGVKMIVVLGEIG  
GTEEYKICRGIKEGRLT KPIVCWICIGTCATMFSSEVQFGHAGACANQASETAVAKNQALK  
EAGVFVPRSFDELGEIIQSVEYEDLVANGVIVPAQEVPPPTVPM DYSWARELGLIRKPASF  
MTSICDERGQELIYAGMPI TEVFKEEMGIGGVLGLLWFQKRLPKYSCQFIEMCLMVTADH  
GPAVSGAHNTIICARAGKDLVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFV  
NKMKEGKLIMGIGHRVKSINPNMRVQILKDYVRQHFPATPLLDYALEVEKITT SKKPN  
LILNVDGLIGVAFVDMLRNCGSFTREEADEYIDIGALNGIFVLGRSMGFIGHYLDQKRLK  
QGLYRHPWDDISYVLPEHMSM

>sp|P11229|ACM1\_HUMAN Muscarinic acetylcholine receptor M1 OS=Homo sapiens GN=CHRM1 PE=1  
SV=2

MNTSAPPAVSPNITVLAPGKGPWQVAFIGITTGLLSLATVTGNLLVLISFKVNTELKTVN  
NYFLLSLACADLIIGTFSMNLYTTYLLMGHWALGTACDLWLALDYASNASVMNLLLS  
FDRYFSVTRPLSYRAKRTPRRAALMIGLAWLSFVLWAPAILFWQYLVGERTVLAGQCYI  
QFLSQPIITFGTAMAAFYLPVTVMCTLYWRIYRETENRARELAALQGSETPGKGGGSSSS  
SERSQPGAEGSPETPPGRCCCRAPRLLQAYSWKEEEEEDEGSMESLTSSEGEPEGSEV  
VIKMPMVDPEAQPTKQPPRSSPNTVKRPTKKGRDRAGKGQKPRGKEQLAKRKTFSLVKE  
KKAARTLSAILLAFILTWTPYNIMVLVSTFCKDCVPETLWELGYWLCYVNSTINPMCYAL  
CNKAFRDTRFLLLLCRWDKRRWRKIPKRPGSVHRTPSRQC

>sp|P20309|ACM3\_HUMAN Muscarinic acetylcholine receptor M3 OS=Homo sapiens GN=CHRM3 PE=1  
SV=1

MTLHNNSTTSPLFPNIISSSWIHSPSDAGLP PGTVTHFGSYNV SRAAGNFSSPDGTTDDPL  
GGHTVWQVVFIAFLTGLILALVTIIGNILVIVSFKV NKQLKTVNNYFLLSLACADLIIGVI  
SMNLFTTYIIMNRWALGNLACDLWLALDYASNASVMNLLVISFDRYFSITRPLTYRAKR  
TTKRAGVMIGLAWVISFVLWAPAILFWQYFVGKRTVPPGECFIQFLSEPTITFGTAIAAF  
YMPVTIMTILYWRIYKETEKRTKELAGLQASGTEAETENFVHPTGSSRSCSSYELQQQSM  
KRSNRRKYGRCHF WFTTKSWKPSSEQMDQDHSSDSWNNNDAAASLENSASSDEEDIGSE  
TRAIYSIVLKLPGHSTILNSTKL PSSDNLQVPEEELGMVDLERKADKLQAQKSVDDGGSF  
PKFSFKLPIQLES AVDTAKTSDVNSSVGKSTATLPLSFKEATLAKRFALKTRSQITKRKR  
MSLVKEKKAQTLSAILLAFIITWTPYNIMVLVNTFCDS CIPKTFWNLGYWLCYINSTVN  
PVCYALCNKTFRTTFKMLLLCQCDKKKRRKQQYQQRQSVIFHKRAPEQAL

>sp|Q8N9L9|ACOT4\_HUMAN Acyl-coenzyme A thioesterase 4 OS=Homo sapiens GN=ACOT4 PE=1 SV=2

MSATLILEPPGRCCWNEPVRIAVRGLAPEQRVTLRASLRDEKGALFRAHARYCADARGEL  
DLERAPALGGSFAGLEPMGLLWALEPEKPFWRFLKRDVQIPFVVELEVLDGHDPEPGRLL  
CQAQHERHFLPPGVRRQSVRAGRVRATLFLPPGPGPFGI IDIFGIGGGLLEYRASLLAG  
HGFATLALAYNFEDLPNNMDNISLEYFEEAVCYMLQHPQVKGPGIGLLGISLGADICLS

MASFLKNVSATVSINGSGISGNTAINYKHSSIPPLGYDLRRIKVAFSGLVDIVDIRNALV  
GGYKNPSMIEKAQGPILLIVGQDDHNWRSELYAQTVSERLQAHGKEKPQIICYPGTGH  
YIEPPYFPLCPASLHRLLNKHVIWGGEPRAHSAQEDAWKQILAFFCKHLGGTQKTAVPK  
L

>sp|O14734|ACOT8\_HUMAN Acyl-coenzyme A thioesterase 8 OS=Homo sapiens GN=ACOT8 PE=1 SV=1  
MSSPQAPEDGQGCGRDPPGDLRSVLVTTVLNLEPLDEDLFRGRHYWVPAKRLFGGQIV  
GQALVAAAKSVSEDEVHVSLSHCYFVRAGDPKLPVLYQVERTRTGSSFSVRSVKAVQHGGP  
IFICQASFQQAQSPMQHQFSMPTVPPPEELDCETLIDQYLRDPNLQKRYPLALNRIAA  
QEVPIEIKPVNPSPLSQLRMEPKQMFVWRARGYIGEGDMKMHCVAAYISDYAFLGTAL  
LPHQWQHVKVHFMVSLDHSMWFHAPFRADHWMLYECESPWAGGSRGLVHGRLWRQDGVLA  
TCAQEGVIRVKPQVSESKL

>sp|Q6ZNF0|ACP7\_HUMAN Acid phosphatase type 7 OS=Homo sapiens GN=ACP7 PE=2 SV=2  
MHPLPGYWSCYCLLLFSLGVQGS LGAPSAAPEQVHLSYPGEPGSMVTWTWVPTRESEV  
QFGLQPSGPLPLRAQGTFFVFDGGILRRKLYIHRVTLRKLLPGVQYVYRCGSAQGSRR  
FRFRALKNGAHSPLRAVFGDLGADNPKAVPRLRRDTQQGMYDAVLHVGDFAYNLDQDNA  
RVGDRFMRLIEPVAASLPYMTCPGNHEERYNFSNYKARFSMPGDNEGLWYSWDLGPAHII  
SFSTEYVFFLHYGRHLVQRQFRWLES DLQKANKNRAARPWII TMGHRPMYCSNADLDDCT  
RHESKVRKGLQGKLYGLEDLFYKYGVDLQLWAHEHSYERLWPIYNYQVFNGSREMPYTNP  
RGPVHIITGSAGCEERLTPFAVFPRPWSAVRVKEYGYTRLHILNGTHIHIQQVSDQDGK  
IVDDVWVVRPLFGRMYL

>sp|P13798|ACPH\_HUMAN Acylamino-acid-releasing enzyme OS=Homo sapiens GN=APEH PE=1 SV=4  
MERQVLLSEPEEAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRDLERMEN  
IRFCRQYLVFHDGDSVVFAGPAGNSVETRGELLSRESPSGTMKAVLRKAGGTGPGEKQF  
LEVWEKNRKLKSFNLSALEKHGPVYEDDCFGCLSWSHSETHLLYVAEKKRPAESFFQTK  
ALDVSASDDEIARLKKPDQAIKGDQFVFYEDWGENMVSKSIPVLCVLDVESGNISVLEGV  
PENVSPGQAFWAPGDAGVVFVGGWWHEPFRLGIRFCTNRRSALYYVDLIGGKCELLSDDSL  
AVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYDWYTKVTSVVVDVVPRLGENFSGIY  
CSLLPLGCWSADSQRVVFDSAQRSRQDLFAVDTQVGTVTSLTAGGSGGSWKLLTIDQDLM  
VAQFSTPSLPPTLKVGLFPLSAGKEQSVLWVSLEEAEPIDIIHWGIRVLQPPPEQENVQYA  
GLDFEAILLQPGSPDKTQVPMVVMHPGPHSSFVTAWMLFPAMLCKMGFAVLLVNYRGS  
TGFGQDSILSLPGNVGHQVDKDVQFAVEQVLQEEHFDASHVALMGSGHGGFISCHLIGQY  
PETYRACVARNPVINIASMLGSTDIPDWCVEAGFPFSSDCLPDLVWAEMLDKSPIRYI  
PQVKTPLLLMLGQEDRRVPFKQGM EYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFM  
NAVLWLRTHLGS

>sp|Q9ULC5|ACSL5\_HUMAN Long-chain-fatty-acid--CoA ligase 5 OS=Homo sapiens GN=ACSL5 PE=1  
SV=1

MLFIFNFLFSPLTPALICILTFGAAIFLWLITRPQPVLPDLLNNSVGIEGGARKGVS  
QKNNDLTSCCFSDAKTMYEVFQRGLAVSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLS  
CLLHKGYKSSPDQFVGIFAQNRPEWIISELACYTYSMAVPLYDTLGPEAIVHIVNKADI  
AMVICDTPQKALVLIGNVEKGFPSLKVIIIMDPFDDDLKQGEKSGIEILSLYDAENLG  
KEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIIVSNA AFLKCEHAYEPTPDDV  
AISYPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADD MKTLKPTLFAVPRLNRIYD  
KVQNEAKTPLKKFLLKLAVSSKFELQKGIIRHDSFWDKLIFAKIQDSLGGRRVIVTGA  
APMSTSVMTFFRAAMGCQVYEAYGQTECTGGCTFTLPGDWTSGHVGVPACNYVKLEDVA

DMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDSGWLHTGDIGRWLPNGTLKI IDR  
KKNIFKLAQGEYIAPEKIENIYNRSQPVQLIFVHGESLRSSLVGVVVPD TDVLP SFAAKL  
GVKGSFEELCQNQVVREAILEDLKIGKESGLKTFEQVKAIFLHPEPF SIENGLLTPTLK  
AKRGELSKYFRTQIDSLYEHIQD

>sp|POC7M7|ACSM4\_HUMAN Acyl-coenzyme A synthetase ACSM4, mitochondrial OS=Homo sapiens  
GN=ACSM4 PE=2 SV=1

MKIFFRYQTFRFIWLTKPPGRRHLKDHQLWTP LTLADFEAINRCNRPLPKNFNFAADVLD  
QWSQKEKTGERPANPALWWVNGKGEVKWSFRELGSLSRKAANVLTKPCGLQRGDLAVI  
LPRIP EWLVNVACIRTGI IFMPGTIQLTAKDILYRLRASKAKCIVASEEVAPAVESIVL  
ECPDLKTKLLVSPQSWNGWLSFQELFQFASEEHSCVETGSQEPMTIYFTSGTTGFPKMAQ  
HSQSSLGIGFTLCGRYWLDLKSSDIWNMSDTGWVKAAGSVFSSWLCGACVFVHRMAQF  
D TDTFLD LTTYPITLCSPTVYRMLVQKDLKRYKFKSLRHCLTGGEPLNPEVLEQWRV  
QTGLELYEGYGQTEVGMICANQKGQEIKPGSMGKGMLPYDVQIIDENGNVLP PGKEGEIA  
LRLKPTRPFCFFSKYVDNPQKTAATIRGDFYVTGDRGVMDS DGYFWFVGRADDV IISGY  
RIGPFEVESALIEHPAVVESAVVSSPDQIRGEVVKA FVLAAPFKSYNPEKL TLELQDHV  
KKSTAPYKYPRKVEFVQELPKTITGKIKRNVLRDQEWGR

>sp|P60709|ACTB\_HUMAN Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1

MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGMVMGMGQKDSYVGDEAQS  
KRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMT  
QIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHA IRLDL  
AGRDLTDYLMKILTERGYSFTTAREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSY  
ELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDL YANTVLS  
GGTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQ  
EYDESGPSIVHRKCF

>sp|P36896|ACV1B\_HUMAN Activin receptor type-1B OS=Homo sapiens GN=ACVR1B PE=1 SV=1

MAESAGASSFFPLVLLLAGSGSGPRGVQALLCACTSC LQANYTCETDGACMVSIFNLD  
GMEHHVRTCIPKVELVPAGKPFYCLSSDLRNTHCCYTDYCNRIDLRVPSGHLKEPEHPS  
MWGPVELVGIIAGPVFLFLIIIVFLVINYHQRVYHNRQLDMEDPSC EMCLSKDKTLQ  
DLVYDLSTSGSGSLPLFVQRTVARTIVLQEIIIGKGRFGEVWRGRWRGGDVAVKIFSSRE  
ERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVS DYHEHGS LFDYLNRYTVT  
IEGMIKLALSAASGLAHLHMEIVGTQGKPGIAHRDLKSKNILVKNGMCAIADLGLAVRH  
DAVTD TIDIAPNQRVGTKRYMAPEVLDETINMKHDFSFKADIYALGLVYWEIARRCNSG  
GVHEEYQLPYYDLVPSDPSIEEMRKVVCDQKL RPNIPNWWQSYEALRMGKMMREC WYAN  
GAARLTALRIKKTLSQLSVQEDVKI

>sp|043184|ADA12\_HUMAN Disintegrin and metalloproteinase domain-containing protein 12  
OS=Homo sapiens GN=ADAM12 PE=1 SV=3

MAARPLPVSPARALLLAGALLAPCEARGVSLWNQGRADEVV SASVSGDLWIPVKSFD  
SKNHPEVLNIRLQRESKELIINLERNEGLIASSFTETHYLQDGT DVSLARNYTVILGH CY  
YHGHVRGYSDSAVSLSTCSGLRGLIVFENESYVLEPMKSATNRYKLP AKKLKSVRGSCG  
SHHNTPNLAANKNVPPPSQTWARRHKRETLKATKYVELVIVADNREFQRQGDLEKVKQR  
LIEIANHVDKFYRPLNIRIVLVGEVWMDKCSVSQDPFTSLHEFLDWRKM KLLPRKSH  
DNAQLVSGVYFQGTITIGMAPIISMCTADQSGGIVMDHSDNPLGA AVTLAHELGHNF GMNH  
DTLDRGCSCQMAVEKGGCIMNASTGYPPFPMVFSSCSRKDLETSLEKGMGVCLFNLPEVRE  
SFGGQKCGNRFVEEGEECDGEP EECMNRCNATTCTLKPDAVCAHGLCCEDCQLKPAGT

ACRDSSNSCDLPEFCTGASPHCPANVYLHDGHSCQDVDGYCYNGICQTHEQQCVTLWGPG  
AKPAPGICFERVNSAGDPYGNCGKVSXSFAKCEMRDAKCGKIQCQGGASRPVIGTNAVS  
IETNIPLQGGRIILCRGTHVYLGDMPDPGLVLAGTKCADGKICLNRQCQNISVFGVHEC  
AMQCHGRGVCNNRNCHCEAHWAPPFCDFGFGGSTDSGPIRQADNQGLTIGILVTILCL  
LAAGFVVYLKRKTLIRLLFTNKKTTIEKLRCVRPSRPPRGFQPCQAHLGHLGKGLMRKPP  
DSYPPKDNPRLLQCQNVDISRPLNGLNVPQPQSTQRVLPPLHRAPRAPSVPARPLPAKP  
ALRQAQGTCKPNPPQKPLPADPLARTTRLTHALARTPGQWETGLRLAPLRPAPQYPHQVP  
RSTHTAYIK

>sp|Q9Y3Q7|ADA18\_HUMAN Disintegrin and metalloproteinase domain-containing protein 18  
OS=Homo sapiens GN=ADAM18 PE=2 SV=1

MFLLLALLTELGRQAHEGSEIFLHVTVPRIKSNDSEVSEKMIYIITIDGQPYTLHL  
GKQSFLPQNFLVYTYNETGSLHSVSPYFMMHCHYQGYAAEFNSFVTLISCSGLRGFLQF  
ENISYGIPEVSSARFEHIYQMKNNDPNVSILAVNYSHIWQKDQPYKVPLNSQIKNLSK  
LLPQYLEIYIIVEKALYDYMGESEMAVTQKIVQVIGLVNTMFTQFKLTVILSSLELWSNE  
NQISTSGDADDILQRFLAWKRDYLILRPHDIAYLLVYRKHPKYVGATFPGTVCNKSVDAG  
IAMYPDAIGLEGFSVIAQLLGLNVGLTYDDITQCFCLRATCINMHEAVSASGRKIFSNC  
SMHDYRYFVSKFETKCLKLSNLQPLHQNPVCGNGILESNEECDGKNKNECQFKKCCDY  
NTCKLKGSVKCGSGPCTSKCELSIAGTPCRKSIDPECDFTEYCNGTSSNCVPTDYLALNG  
RLCKLGTAYCYNGQCQTTDNQCAKIFGKGAQGAPFACFKEVNSLHERSENCGFKNSQPLP  
CERKDVLCGKLACVQPHKNANKSDAQSTVYSYIQDHVCVSIATGSSMRSDGTDNAYVADG  
TMCGPMEYCVNKTCKRVHLMGYNCNATTKCKGKGICNNFGNCQCFPGHRPPDCKFQFGSP  
GGSIDDGNFQKSGDFYTEKGYNTHWNNWFILSFCIFLPFFIVFTTVIFKRNEISKSCNRE  
NAEYNRNSSSVSESDDVGH

>sp|P25100|ADA1D\_HUMAN Alpha-1D adrenergic receptor OS=Homo sapiens GN=ADRA1D PE=1 SV=2

MTFRDLLSVSFEGRPDSSAGGSSAGGGGSAGGAAPSEPAVGVPVGAGGGGGVVGAG  
SGEDNRSSAGEPGSAGAGGDVNGTAAVGGLVVSQAQGVGVFLAAFILMAVAGNLLVILS  
VACNRHLQTVTNYFIVNLAVADLLSATVLPFSATMEVLGFWAFGRAFCDVWAAVDVLC  
TASILSLCTISVDYVGVVRHSLKYPAIMTERKAAAILALLWVVALVSVGPLLGWKEPVP  
PDERFCGITEEAGYAVFSSVCSFYLPMAVIVMYCRVYVVARSTTRSLEAGVKRERKAS  
EVVLRHICRGAAATGADGAHGMRSAGKHTFRSSLSVRLKFSREKKAAKTLAIVGVFVLC  
WFPFFFVLPLGSLFPQLKPSGQVFKVIFWLGYFNVCNPLIYPCSSREFKRAFLRLRCQ  
CRRRRRRRPLWRVYGHWRASGLRQDCAPSSGDAPPAPLALTALPDPDPEPPGTPEM  
QAPVASRRKPPSAFREWRLLGPFRPTTQLRAKVSSLSHKIRAGGAQRAEAACAQRSEVE  
AVSLGVPHEVAEGATCQAYELADYSNLRETDI

>sp|Q9UKJ8|ADA21\_HUMAN Disintegrin and metalloproteinase domain-containing protein 21  
OS=Homo sapiens GN=ADAM21 PE=2 SV=2

MAVDGTLVYIRVTLTLLWLGVFLSISGYCQAGPSQHFTSPEVVIPLKVISRGRSAKAPGW  
LSYSLRFGGQKHVVHMRVKLLVSRHLPVFTYTDDRALLDQLFIPDDCYHYGYVEAAPE  
SLVVSACFGGFRGVKISGLTYEIEPIRHSATFEHLVYKINSNETQFPAMRCGLTEKEV  
ARQQLEFEAAENSALEPKSAGDWWTHAWFLELVVVVNHDFFIYSQSNISKVQEDVFLVVN  
IVDSMYKQLGTYYIILIGIEIWNQGNVFPMTSIEQVLNDFSQWKQISLSQLQHDAAHMFIK  
NSLISILGLAYVAGICRPPIDCGVDNFQGDTWSLFANTVAHELGTLMQHDEEFCFCGE  
RGCIMNTFRVPAEKFTNCSYADFMTTLNQGSCLHNPPRLGEIFMLKRCNGVVEREEQC  
DCGSVQQCEQDACLLNCTLRPGAACAFGLCKDCKFMPSGELCRQEVNECDLPEWCNGT

SHQCPEDRYVQDGIPCSDSAYCYQKRCNNHDQHCREIFGKDAKSASQNCYKEINSQGNRF  
GHCGINGTTYLKCHISDVFCGRVQCENVRDIPLLQDHFTLQHTHINGVTCWGIDYHLRMN  
ISDIGEVKDGTVCGPGKICIHKKCVSLSVLSHVCLPETCNMGKICNNKHHCHCGYWSPP  
YQHRGYGGSIDSGPASAKRGVFLPLIVIPSLSVLTFLFTVGLLMYLRQCSGPKETKAHS  
SG

>sp|043306|ADCY6\_HUMAN Adenylate cyclase type 6 OS=Homo sapiens GN=ADCY6 PE=1 SV=2  
MSWFSGLLVPKVDERKTAWGERNGQKRSRRRGTRAGGFCTPRYMSCLRDAEPPSPTPAGP  
PRCPWQDDAFIRRGPGKGKELGLRAVALGFEDTEVTTTAGGTAEVAPDAVPRSGRSCWR  
RLVQVFQSKQFRSAKLERLYQRYFFQMNQSSLTLLMAVLVLLTAVLLAFHAAPARPQPAY  
VALLACAAALFVGLMVV CNRHSFRQDSMWVVSYYVLGILAAVQVGGALAADPRSPSAGLW  
CPVFFVYIAYTLLPIRMRAAVLSGLGLSTLHLILAWQLNRGDAFLWKQLGANVLLFLCTN  
VIGICTHYPAEVSQRQAFQETRGIYIARLHLQHNRQERLLLSVLPQHVAMEMKEDINT  
KKEDMMFHKIYIQKHDNVSILFADIEGFTSLASQCTAQELVMTLNELFARFDKLAENHC  
LRIKILGDCYYCVSGLPEARADHAHCCVEMGVDMIEAISLVREVTGVNVNMRVGIHSGRV  
HCGVLGLRKWQFDVWSNDVTLANHMEAGGRAGRIHITRATLQYLNGDYEVEPGRGGERNA  
YLKEQHIEITFLILGASQKRKEEKAMLAQLRTRANSMGLMPRWVPDRAFSRTKDSKAFR  
QMGIDDSKDNRGTDALNPEDEVDEFSLRAIDARSIDQLRKDHVRRFLLTFQREDLEKK  
YSRKVDPRFGAYVACALLVFCFICFIQLLIFPHSTLMLGIYASIFLLLLITVLICAVYSC  
GSLFPKALQRLSRSIVRSRAHSTAVGIFSVLLVFTSAIANMFTCNHTPIRSCAARMLNLT  
PADITACHLQQNLNSLGLDAPLCEGTMPTCSFPEYFIGNMLLSLLASSVFLHISSIGKLA  
MIFVLGLIYLVLLLLGPPATIFDNYDLLGVHGLASSNETFDGLDCPAAGRVALKYMPV  
ILLVFALALYLHAQQVESTARLDFLWKLQATGEKEEMEELQAYNRRLHNLPKDVAHF  
LARERRNDELYYQSCCEVAVMFASIANFSEFYVELEANNEGVECLRLNEIIADFDEIIS  
EERFRQLEKIKTIGSTYMAASGLNASTYDQVGRSHITALADYAMRLMEQMKHINEHSFNN  
FQMKIGLNMGPVAVGIGARKPQYDIWGNTVNVSSRMDSTGVPDRIQVTTDLYQVLAAG  
YQLECRGVVVKVGKGEMTTYFLNGGPSS

>sp|O15204|ADEC1\_HUMAN ADAM DEC1 OS=Homo sapiens GN=ADAMDEC1 PE=1 SV=2  
MLRGISQLPAVATMSWVLLPVLWLIVQTQAIAIKQTPELTLHEIVCPKKLHILHKREIKN  
NQTEKHGKEERYEPEVQYQMILNGEEIILSLQKTKHLLGPDYTETLYSPRGEEITTKPEN  
MEHCYKGNILNEKNSVASISTCDGLRGYFTHHHQRYQIKPLKSTDEKEHAVFTSNQEEQ  
DPANHTCGVKSTDGKQGPRIISRSLKSPEKEDFLRAQKYIDLVLVDNAFYKNYNENLTL  
IRSFVFDVMNLLNVIYNTIDVQVALVGMEIWSGDGKIKVVPASSTTFDNFLRWSSNLGK  
KIHDHAQLLSGISFNRRVGLAASNLCSPSSVAVIEAKKKNNVALVGMSHELGHVLMGM  
PDVPFNTKCPSGSCVMNQLSSKFPKDFSTSCRAHFERYLLSQPKCLLQAPIPTNIMTT  
PVCGNHLEVGEDCDGSPKECTNLCCEALTCKLKPGTDCGGDAPNHTTE

>sp|P00325|ADH1B\_HUMAN Alcohol dehydrogenase 1B OS=Homo sapiens GN=ADH1B PE=1 SV=2  
MSTAGKVIKCAAVLWEVKKPFSIEDVEVAPPKAYEVRIKMVAVGICRTDDHVVSIGNLVT  
PLPVILGHEAAGIVESVGEGVTVKPGDKV IPLFTPQCGKCRVCKNPESNYCLKNDLGNP  
RGTLDQGTTRFTCRGKPIHHFLGTSTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFSTG  
YGSANVAVKTPGSTCAVFLGGVGLSAVMGCKAAGAARI IAVDINKDKFAKAKELGATE  
CINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPPASQ  
NLSINPMLLLTGRTWKGA VYGGFKSKEGIPKL VADFMAKKFSLDALITHVLPFEKINEGF  
DLLHSGKSIRTVLTF

>sp|P11766|ADHX\_HUMAN Alcohol dehydrogenase class-3 OS=Homo sapiens GN=ADH5 PE=1 SV=4



MANEVIKCKAAVAWEAGKPLSIEEIEVAPPKAHEVRIKIIATAVCHTDAYTLSGADPEGC  
FPVILGHEGAGIVESVGEGVTKLKAGDTVIPLYIPQCGECKFCLNPKTNLCQKIRVTQ GK  
GLMPDGT SRFTCKGKTI LHYMGSTSTFSEYTVVADISVAKIDPLAPLDKVCLLGCGISTGY  
GAAVNTAKLEPGSVCAVFLGGVGLAVIMGCKVAGASRIIGVDINKDKFARAKEFGATEC  
INPQDFS KPIQEVL IEMTDGGVDYSFECIGNVKVMRAALEACHKGWGVSVVVGVAAASGEE  
IATRP FQLVTGRTWKGTAFGGWKS VESVPKLVSEYMSKKIKVDEFVTHNLSFDEINKAFE  
LMHSGKSIRT VVKI

>sp|QOVDE8|ADIG\_HUMAN Adipogenin OS=Homo sapiens GN=ADIG PE=3 SV=1  
MKYPLMPLVNDLTF SFLVFWFCLPVGLLLLLIIWLRFLLSQDSEENDSSVCLDWEPWSKG  
PAEFCWKGT LHGQEKERPCW

>sp|Q9H2P0|ADNP\_HUMAN Activity-dependent neuroprotector homeobox protein OS=Homo sapiens  
GN=ADNP PE=1 SV=1

MFQLPVN NLGSLRKARKTVKKILSDIGLEYCKEHIEDFKQFEPNDFYLNKTTWEDVGLWD  
PSLTKNQDYRTKPFCCSACPFSSKFFSAYKSHFRNVHSEDFENRILLNCPYCTFNADKKT  
LETHIKIFHAPNASAPSSSLSTFKDKNKNDGLKPKQADSVEQAVYYCKKCTYRDPLYEIV  
RKHIYREHFQHVAAPIYAKAGEKSLNGAVPLGSNAREESSIHCKRCLFMPKSYEALVQHV  
IEDHERIGYQVTAMIGHTNVVVP RSKPLMLIAPKPQDKKSMGLPPRIGSLASGNV RSLPS  
QQMVNRLSIPKPNLNSTGVNMMSSVHLQQNNYGVKSVGQGYSVGQSMRLGLGGNAPVSIP  
QQSQSVKQLLPSGNRSYGLGSEQRSQAPARYSLQSANASSLSSGQLKSPSLSQSQASRV  
LGQSSSKPAAAATGPPPGNTSSTQKWKICTICNELFPENVYSVHFEKEHKA EKVP AVANY  
IMKIHNFTSKCLYCNRYLPD TLLNHMLIHGLSCPYCRSTFNDVEKMAAHMRMVHIDEEM  
GPKTDSTLSFDLTLQQGSHTNIHLLVTTYNLRDAPAESVAYHAQNNPPVPPKPQPKVQEK  
ADIPVKSSPQAAVPYK KDVGKTLCP LCF SILKGPISDALAHHLRERHQVIQTVHPVEKKL  
TYKCIHCLGVYTSNMTASTITLHLVHCRGVGKTQNGQDKTNAPSRLNQSPSLAPVKRTYE  
QMEFPLLKKRKLDDSDSPSFEEKPEEPVVLALDPKGHEDDSYEARKSFLT KYFNKQPY  
PTRREIEKLAASLWLWKS DIASHFSNKRKKCVRDCEKYKPGVLLGFNMKELNKKVHEMDF  
DAEWLFENHDEKDSRVNASKTADKKLNLGKEDDSSSDSFENLEESNESGSPFDPVFEVE  
PKISNDNPEEHVLKVIPEDASEEEKLDQKEDGSKYETIHLTEEPTKLMHNASDSEVDQD  
DVVEWKDGASPS ESGPGSQQVSDFEDNTCEMKPGTWSDESSQSEDARSSKPAAKKATMQ  
GDREQLKWKNSSYGVKVEGFWSKDQSQWKNASENDERLSNPQIEWQNSTIDSEGEQFDNM  
TDGVAEPMHGSLAGVKLSSQQA

>sp|Q86V24|ADR2\_HUMAN Adiponectin receptor protein 2 OS=Homo sapiens GN=ADIPOR2 PE=1 SV=1  
MNEPTENRLGCSRTPEDIRLRKGHQLDGTRRGDND SHQGDLEPILEASVLSHHKKSSE  
EHEYSD EAPQEDEGFMGMSPLLQAHHAMEKMEEFVCKVWEGRWVIPHDVLPDWLKD NDF  
LLHGH RPPMPSFRACFSIFRIHTETGNIWTHLLGCVFFLCLGIFYMFRPNISFVAPLQE  
KVVFG LFFLGAILCLSFSWLFHTVYCHSEGVSRLFSKLDYSGIALLIMG SFVPWLYYSFY  
CNPQPCFIY LIVICVLGIAAIIVSQWDMFATPQYRGVRAGVFLGLGLSGI IPTLHYVISE  
GFLKAATIGQIGWLM MASLYITGAALYAARIPERFFPGKCDIWFHSHQLFHIFVVAGAF  
VHFHGVSNLQEFRFMIGGCSEEDAL

>sp|P07550|ADRB2\_HUMAN Beta-2 adrenergic receptor OS=Homo sapiens GN=ADRB2 PE=1 SV=3  
MGQPGNGSAFLLAPNGSHAPDHDVTQERDEVVWVGMI VMSLIVLAIVFGNVLVITAIK  
FERLQTVTNYFITSLACADLVMGLAVVPFGAAHILMKMWTFGNFWCEFWTSIDVLCVTAS  
IETLCVIAVD RYFAITSPFKYQSLLTKNKARV IILMVWIVSGLTSFLPIQMHWYRATHQE  
AINCYANETCCDFFT NQAYAIASSIVSFYVPLVIMVFVYSRVFQEAQRQLQKIDKSEGRF

HVQNLSQVEQDGRGTGHGLRRSSKFCLKEHKALKTLGIIMGTFTLCWLPFFIVNIVHVIQD  
NLIRKEVYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLRRSSLKAYGNGYSSNGNT  
GEQSGYHVEQEKENKLLCEDLPGTEDFVGHQGTVPSDNIDSQGRNCSTNDSLL

>sp|Q96IZ2|ADTRP\_HUMAN Androgen-dependent TFPI-regulating protein OS=Homo sapiens  
GN=ADTRP PE=2 SV=1

MTKTSTCIYHFLVLSWYTFNLNYYISQEGKDEVKPKILANGARWKYMTLLNLLLQTIIFYGV  
TCLDDVLKRTKGGKDIKFLTAFRDLLFTTLAFPVSTFVFLAFWILFLYNRDLIYPKVLDT  
VIPVWLNHAMHTFIFPITLAEVLRPHSYPSKKTGLTLAAASIAIYISRILWLYFETGTW  
VYPVFAKLSLLGLAAFFSLSYVFIASIIYLLGEKLNHWKWDGMRQPRKKRK

>sp|C9J202|AG1L2\_HUMAN Putative glycosyltransferase ALG1L2 OS=Homo sapiens GN=ALG1L2 PE=3  
SV=1

MGATAGWAVTVYDKPASFFKEAPLDLQHRLFMKLGSTHSPFRARSEPDPDTERSAFTER  
DSGSGLVTRLHERPALLVSSTSWTEFEQLTDGQNLPSLVCVITGKGPLREYYSRLIHQK  
HFQHIQVCIPWLEGRGLPPLLGSVDLDVCLDTSSGLDLPKVVDMFRCCLPACAVNFKC  
LHELVKHEENRLFEDSEELAAQLQYFADAFLKLS

>sp|P06280|AGAL\_HUMAN Alpha-galactosidase A OS=Homo sapiens GN=GLA PE=1 SV=1

MQLRNPHELHLCALALRFLALVSWDIPGARALDNGLARTPTMGWLHWERFMCNLDCQEEP  
DSCISEKLFMEMAELMVSEGWKDAGYEYLCIDDCWMAQQRDSEGRQLADPQRFPHGIRQL  
ANYVHSGKLKGLIYADVGNKTCAGFPGSFGYYDIDAQTFADWGVDLLKFDGCYCDLENL  
ADGYKHMSLALNRTGRSIVYSCWPLYMWPFQKPNYTEIRQYCNHWRNFADIDDSWKS  
SILDWTSFNQERIVDVAGPGGWDPDMLVIGNFGLSWNQVTQMALWAIMAAPLFMSNDL  
RHISPQAKALLQDKDVIAINQDPLGKQGYQLRQGDNFEVWERPLSGLAWAVAMINRQEIG  
GPRSYTIAVASLGKGVACNPACFITQLLPVKRKLGFYEWSRLRSHINPTGTVLLQLENT  
MQMSLKDLL

>sp|Q9UPQ3|AGAP1\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
1 OS=Homo sapiens GN=AGAP1 PE=1 SV=4

MNYQQQLANSAAIRAEIQRFESVHPNIYSIYELLERVEEPVLQNQIREHVIAIEDAFVNS  
QEWTLRSRVPKLVGIVGNLASGKSALVHRYLTGTYVQEESEPGRFKKEIVVDGQSYLL  
LIRDEGGPPEAQFAMWVDAIVFVSLEDEISFQTVYHYYSRMANYRNTSEIPLVLVTQD  
AISSANPRVIDDARARKLSNDLKRCTYYETCATYGLNVERVFQDVAQKIVATRKKQQLSI  
GPCKSLPNSPSHSSVCSAQVSAVHISQTSNNGGSLSDYSSSPSTPSTSQKELRIDVPPT  
ANTPTPVKQSKRRSNLFTSRKGSDDPKKKGLESRADSIGSGRAIPIKQGMLLKRSKGS  
LNKEWKKKYVTLCDNGVLTYPHSLHDYMQNVHGKEIDLLRTTVKVPGRPPRATSACAPI  
SSPKTNGLSKDMSSLHISPNSGNVTSASGSQMASGISLVSFNSRPGMHQRSYSVSSADQ  
WSEATVIANSAISSDTGLGDSVCSSPSISSTTSPKLDPPPSPHANRKKHRRKKSTSNFKA  
DGLSGTAEQEENFEFIIVSLTGQTWHFEATTYEERDAWVQAIESQILASLQSCCESSKNK  
SRLTSQSEAMALQSI RNMGRNSHCVDCEQNPWNWASNLGALMCIECSGIHRNLGTHLSR  
VRSLDLDDWPVELIKVMSSIGNELANSVWEESQGRTPKPSVDSTREEKERWIRAKYEQKL  
FLAPLPCTELSLGQHLLRATADEDLRTAILLLAHGSRDEVNETCGEGDGRALHLACRKG  
NVVLAQLLIWYGVDVTARDAHGNTALAYARQASSQECIDVLLQYGCPDERFVLMATPNLS  
RRNNNRNNSGRVPTII

>sp|Q5VW22|AGAP6\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
6 OS=Homo sapiens GN=AGAP6 PE=2 SV=1

MGNILTCRVHPSVSLEFDQQQGSVCPSESETYEAGARDRMAGAPMAAAVQPAEVTVEVGE

DLHMHVDRDREMPAELEFNPSANPEASTIFQRNSQTDVVEIRRSNCTNHVSAVRFSQQYS  
LCSTIFLDDSTAIQHLYLTMTIISVTLEIPHHITQRDADRTLSIPDEQLHSFAVSTVHIMK  
KRNGGGSLLNNYSSSIPSTPSTSQEDPQFSVPPTANTPTPVCKRSMRWSNLFTSEKGSDDP  
KERKAPENHADTIGSGRAIPIKQGMLLKRSKGWLKTWKKKYVTLCNMGMLTYYSSLGDYM  
KNIHKKEIDLQTSTIKVPGKWPSLATSACTPISSSKSNGLSKMDTGLGDSICFSPSISS  
TTSPKLNPPPSPHANKKKHLKKKSTNNFMIVSATGQTWHFEATTYEERDAWVQAIQSQIL  
ASLQSCCESSKSKSQLTSQSEAMALQSIQNMGRNAHCVDCTQNPKWASNLGLVLMCIECS  
GIHRSGLPHLSRVRSELEDDWPVELRKVMSSIVNDLANSIWEGSSQGQTKPSEKSTREEK  
ERWIRSKYEKFLFAPLPCTELSLGQQLLRATADEDLQTAILLLAHGSCEEVNETCGEGD  
GCTALHLACRKGNNVLAQLLIWYGVDVMARDAHGNTALTYARQASSQECINVLLQYGCPD  
ECV

>sp|Q8N302|AGGF1\_HUMAN Angiogenic factor with G patch and FHA domains 1 OS=Homo sapiens  
GN=AGGF1 PE=1 SV=2

MASEAPSPRSPPPPTSPEPELAQLRRKVEKLERELRSCRKQVREIEKLLHHTERLYQNA  
ESNNQELRTQVEELSKILQRGRNEDNKKSDVEVQTENHAPWSISDYFYQTYNDVSLPNK  
VTELSQQDQAIETSILNSKDHLQVENDAYPGTDRTEENVKYRQVDHFASNSQEPASALAT  
EDTSLEGSSLAESLRAAAEAASQTGFSYDENTGLYFDHSTGFYDSENQLYYDPSTGIY  
YYCDVESGRYQFHSRVDLQPYPTSSTKQSKDKKLKKRKDPDSSATNEEKDLNSEDQKAF  
SVEHTSCNEEENFANMKKKAKIGIHHKNSPPKVTVPVPTSGNTIESPLHENISNSTSFKDEK  
IMETDSEPEEGEITDSQTEDSYDEAITSEGNVTAEDSEDEDEDKIWPPCIRVIVIRSPVL  
QIGSLFIITAVNPATIGREKDMEHTLRIPEVGVSFKFAEIFYDHDQLSYVLVDQGSQNGT  
IVNGKQILQPKTKCDPYVLEHGDEVKIGETVLSFHIHPGSDTCDGCEPGQVRAHLRLDKK  
DESVFGPTLSKEEKELERRKELKKIRVKYGLQNTYEDEKTLKNPKYKDRAGKRREQVGS  
EGTFQRDDAPASVHSEITDSNKGKMKLEKMGWKKEGLGKDGGMKTPIQQLRRTHAGL  
GTGKPSSFEDVHLLQNKNNKNDKARERFTENFPETKPKQDDPGTMPVWKGTLE

>sp|Q9H0P7|AGIT1\_HUMAN Putative uncharacterized protein encoded by AGPAT4-IT1 OS=Homo  
sapiens GN=AGPAT4-IT1 PE=5 SV=1

MADTQCCPPPCFESSAGTDLALGMGWDATLCLLPFTGFGKCAGIWNHMDDEPDNGDDR  
SRRTTGQGRKWAHGTMAAPRVHTDYHPGGGSACSSVKVRSHVGTGVFFFVDQDPLAVS  
LTSQSLIPPLIKPGLLKAWGFLLLCAQPSANGHSLCCLLYTDLVSSHELSPFRALCLGPS  
DAPSACASCNCLASTYYL

>sp|Q8NEB7|ACRBP\_HUMAN Acrosin-binding protein OS=Homo sapiens GN=ACRBP PE=2 SV=1

MRKPAAGFLPSLLKVLPLAPAAAQDSTQASTPGSPLSPTEYERFFALLTPTWKAETTC  
RLRATHGCRNP TLVQLDQYENHGLVPDGA VCSNLPYASWFESFCQFTHYRCSNHVYAKR  
VLCSQPVSI LSPNTLKEIEASA EVSPTTMTSPISPHFTVTERQTFQPWPERLSNNVEELL  
QSSLSLGGQEQAPEHKQEQGV EHRQEPTQEHKQEEGQKQEEQEEQEEGKQEEGQGTKE  
GREAVSQLQTDSEPKFHS ESSLNPNSSFAPRVREVESTPMIMENIQELIRSAQ EIDEMNE  
IYDENSYWRNQNP GSLLQLPHT EALLVLCYSIVENTCIITPTAKAWKYMEEEILGFGKSV  
CDSLGRRHMTALCDFCSLKLEQCHSEASLQRQQCDTSHKTPFVSPLLASQSLSIGNQV  
GSPESGRFYGLDLYGGLHMDFWCARLATKGCE DVRVSGWLQTEFLSFQDGD FPTKICDTD  
YIQYPNYCSFKSQQLMRNRNRKVS RMRCLQNETYSALSPGKSEDVVL RWSQEFSTLT LG  
QFG

>sp|P63261|ACTG\_HUMAN Actin, cytoplasmic 2 OS=Homo sapiens GN=ACTG1 PE=1 SV=1  
MEE EIAALVIDNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGV MVMGMGQKDSYVGDEAQS

KRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMT  
QIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDL  
AGRDLDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSY  
ELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLS  
GGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQ  
EYDESGPSIVHRKCF

>sp|P63267|ACTH\_HUMAN Actin, gamma-enteric smooth muscle OS=Homo sapiens GN=ACTG2 PE=1 SV=1

MCEEETALVCDNGSGLCKAGFAGDDAPRAVFPISIVGRPRHQVMVGMGQKDSYVGDEAQ  
SKRGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKM  
TQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPYEGYALPHAIMRLD  
LAGRDLDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKS  
YELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVL  
SGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISK  
PEYDEAGPSIVHRKCF

>sp|Q9H568|ACTL8\_HUMAN Actin-like protein 8 OS=Homo sapiens GN=ACTL8 PE=1 SV=1

MAARTVIIDHGSGLKAGTAGWNEPQMVFPNIVNYPCKENPGPSYARRRVSLGIDICHP  
DTFSYPIERGRILNWEQVQYLWSFVLENHRREQEVPPVITETPLREPADRKKMLEILFE  
LLHVPSVLLADQLQMSLYASGLLTGVVVDSDGYGLTRVQPFHQGRPLPASGKTLFAGQDL  
SAYLLKSLFKEDCDRRLCFQLETVAVTQMNKCYVPQNLGEALDFRERQQSALDESNTYQL  
PDGSRVELTPMQRVAPEMFSPQVFEQPGPSIPRAIVESVESCEISLRPLLVSHVMACGG  
NTLYPGFTKRLFRELMGDHVSSTKATVWEGSNRNFVWLGASVVAHLSTYQSEWMSREEY  
GEHMRM

>sp|Q08462|ADCY2\_HUMAN Adenylate cyclase type 2 OS=Homo sapiens GN=ADCY2 PE=1 SV=5

MWQEAMRRRRYLDRSEEAAGGGDGLPRSRDWLYESYYCMSQQHPLIVFLLIIVMGSCLA  
LLAVFFALGLEVEDHVAFLITVPTALAIFFAIFILVCIESVFKKLLRLFSLVIWICLVAM  
GYLFMCFGGTVPWDQVSFFLFIIFVVYTMLPFNMRAIIASVLTSSHTIVLSVCLSAT  
PGGKEHLVWQILANVIFICGNLAGAYHKHLMELALQQTYQDTCNCIKSRIKLEFEKRQQ  
ERLLLSLLPAHIAMEMKAEIIQRLQGPKAGQMENTNNFHNLYVKRHTNVSILYADIVGFT  
RLASDCSPGELVHMLNELFGKFDQIAKENECMRIKILGDCYCVSGLPISLPNHAKNCVK  
MGLDMCEAIKKVRDATGVDINMRVGVHSGNVLCGVIGLQKWQYDVWSDVTLANHMEAGG  
VPGRVHISSVTLEHLNGAYKVEEGDGDIRDPYLKQHLVKTYFVINPKGERRSPQHLFRPR  
HTLDGAKMRASVRMTRYLESWGAAKPFAHLHHRDSMTTENGKISTTDVPMGQHNFNQRTL  
RTKSQKKRFEEELNERMIQAIDGINAQKQWLKSEDIQRISLLFYNKVLEKEYRATALPAF  
KYYVTCACLIFFCIFIVQILVLPKTSVLGISFGAAFLLLAFILFVCFAGQLQCCKKASP  
LLMWLLKSSGIIANRPWPRIISLTIIITAIILMAVFNMFFLSDSEETIPPTANTTNTSFS  
ASNNQVAILRAQNLFFLPYFIYSCILGLISCSVFLRVNYELKMLIMMVALVGYNTILLHT  
HAHVLGDYSQVLFERPGIWKDLKTMGSVSLSIFFITLLVLGRQNEYCYCRDLFWKNKFKK  
EREEIETMENLNRVLLENVLPAHVAEHFLARSLKNEELYHQS YDCVCMFASIPDFKEFY  
TESDVNKEGLECLRLNEIIADFDDLKSKPKFSGVEKIKTIGSTYMAATGLSAVPSQEHS  
QEPERQYMHIGTMVEFAFALVGKLDANKHSFNDFKLRVGINHGPIAGVIGAQPQYDI  
WGNTVNVASRMDSTGVLDKIQVTEETSLVLQTLGYTCTCRGIINVKGKGLKTYFVNTEM  
SRSLSQSNVAS

>sp|Q8NFM4|ADCY4\_HUMAN Adenylate cyclase type 4 OS=Homo sapiens GN=ADCY4 PE=1 SV=1

MARLFSPRPPPSSEDLFYETYYSLSQQYPLLLLLLGIIVLCALAALLAVAWASGRELTSDPS  
FLTTVLCALGGFSLLLGLASREQRLQRWTRPLSGLVWVALLALGHAFLFTGGVVSADQV  
SYFLFVIFTAYAMLPLGMRDAAVAGLASSLSHLLVLGLYLGPQPDSPALLPQLAANAVL  
FLCGNVAGVYHKALMERALRATFREALLSHSRRLDTEKKHQEHLLSILPAYLAREMK  
AEIMARLQAGQGSRPSTNNFHSLYVKRHQGVSVLYADIVGFTRLASECSPKELVLMNE  
LFGKFDQIAKEHECMRIKILGDCYYCVSGLPLSLPDHAINCVRMGLDMCRAIRKLRAATG  
VDINMRVGVHSGSVLCGVIGLQKWQYDVWSDVTLANHMEAGVPGRVHITGATLALLAG  
AYAVEDAGMEHRDPYLRELGEPTYLVIDPRAEEDEKGTAGGLSSLEGLKMRPSLLMTR  
YLESWGAAKPFAHLSHGDSPTSTPLPEKTASFSTQWSLDRSRTPRGLDDELDTGDAK  
FFQVIEQLNSQKQWKQSKDFNPLTLTYFREKEMEKEYRLSAIPAFKYEACTFLVFLSNFI  
IQMLVTNRPPALAITYSITFLLFLLILFVCFSEDLMRCVLKGPMLHWPALSGLVATRP  
GLRIALGTATILLVFAMAITSLFFFTSSDCPFQAPNVSSMISNLSWELPGSLPLISVPY  
SMHCCTLGFLSCSLFLHMSFELKLLLLLLWLAASCSLFLHSHAWLSECLIVRLYLGPLDS  
RPGVLKEPKLMGAISFFIFFFTLLVLARQNEYCYRLDFLWKKLRQEREETETMENLTRL  
LLENVLPAAHVAPQFIGQNRNEDLYHQSYECVCLFASVPDFKEFYSESINHEGLECLR  
LLNEIIADFDELLSKPKFSGVEKIKTIGSTYMAATGLNATSGQDAQQDAERSCSHLGTMV  
EFAVALGSKLDVINXHSFNNFRLRVGLNHGPPVAGVIGAQKPQYDIWGNTVNVASRMEST  
GVLGKIQTETEATAWALQSLGYTCYSGVIVKVGKGLCTYFLNTDLTRTGPPSATLG

>sp|P55263|ADK\_HUMAN Adenosine kinase OS=Homo sapiens GN=ADK PE=1 SV=2

MAAEEEEPKPKKLKEAPQALRENILFGMGNPLLDISAVVDKDFLDKYSKPNQILAED  
KHKELFDELVKKFVEYHAGGSTQNSIKVAQWMIQQPHKAATFFGCIGIDKFGELKRKA  
AEAHVDAHYYEQNEQPTGTCAACITGDNRSILANLAAANCYKKEKHLDEKNWMLVEKAR  
VCYIAGFFLTVSPESVLKVAHHAENNRIFTNLNLSAPFISQFYKESLMKVMPYVDILFGN  
ETEATFAREQGFETKDIKEIAKKTQALPKMNSKRQRIVFTQGRDDTIMATESEVTAF  
VLDQDQKEIIDTNGAGDAFVGGFLSQLVSDKPLTECIRAGHYAASIIIRRTGCTFPEKPD  
FH

>sp|Q9BRR6|ADPGK\_HUMAN ADP-dependent glucokinase OS=Homo sapiens GN=ADPGK PE=1 SV=1

MALWRGSAYAGFLALAVGCVLLEPELPGSALRSLWSSLCLGPAPAPPGPVSPGRLAAA  
WDALIVRPVRRRRVAVGVNACVDVLSGVKLLQALGLSPGNGKDHSILHSRNDLEEF  
HFMGKGAAAEFFSDKETFDIAQVASEFPGAQHYVGGNAALIGQKFAANSCLKVLLCGP  
VGPKLHELLDDNVFVPESLQEVDEFHLILEYQAGEEWGQLKAPHANRIFSHDLSNGAM  
NMLEVFVSSLEEFQPDLLVLSGLHMEGQSKELQRKRLLEVVTISDIPTGIPVHLELAS  
MTNRELMSSIVHQVFPVAVTSLGLNEQELLFLTQSASGPHSSLSWNGVPDVGMSDILF  
WILKEHGRSKSRASDLTRIFHTLVYHILATVDGHWANQLAAVAAGARVAGTQACATETI  
DTSRVSLRAPQEFMTSHSEAGSRIVLNPNKPVVEWHREGISFHFTPVLVCKDPIRTVGLG  
DAISAEGLFYSEVHPHY

>sp|Q9NRN7|ADPPT\_HUMAN L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl  
transferase OS=Homo sapiens GN=AASDHPPT PE=1 SV=2

MVFPKRFLVPSMEGVWAFSCGTWLPSRAEWLLAVRSIQPEEKERIGQFVFARDAKAA  
MAGRLMIRKLVAEKLNIPWNHIRLQRTAKGKPVLAKDSSNPYPNPNFNISHQGDYAVLAA  
EPELVGIDIMKTSFPGRGSIPEFFHIMKRKFTNKEWETIRSFKDEWTQLDMFYRNWALK  
ESFIKAIGVGLGFELQRLEFDLSPLNLDIGQVYKETRLFLDGEEKEWAFEEKIDEHHF  
VAVALRKPDGSRHQDVPSQDDSKPTQRQFTILNFNDLMSSAVPMTPEPDSFWDCFCFTEE  
IPIRNGTKS

>sp|Q3LIE5|ADPRM\_HUMAN Manganese-dependent ADP-ribose/CDP-alcohol diphosphatase OS=Homo sapiens GN=ADPRM PE=1 SV=1

MDDKPNPEALSDSSERLFSFGVIADVQFADLEDGFNFQGTRRRYYRHSLLHLQGAIEDWN  
NESSMPCCVLQLGDIIDGYNAQYNASKKSLELVMDMFKRLKVPVHHTWGNHEFYNFSREY  
LTHSKLNTKFLEDQIVHHPETMPSEDYYAYHFVPFPKFRFILLDAYDLSVLGVDQSSPKY  
EQCMKILREHNPNTELNSPQGLSEPQFVQFNGGFSQEQLNWLNEVLTFSDTNQEKVVIVS  
HLPIYPDASDNVCLAWNYRDALAVIWSHECVVCFAGHTHDGGYSEDPFQVYHVNLGVI  
ETAPDSQAFGTVHVYPDKMMLKGRGRVPDRIMNYKKERAFHC

>sp|Q08117|AES\_HUMAN Amino-terminal enhancer of split OS=Homo sapiens GN=AES PE=1 SV=4

MMFPQSRHSGSSHLPQQLKFTTSDSCDRIKDEFQLLQAQYHSLKLECDKLASEKSEMQRH  
YVMYYEMSGLNIEMHKQAEIVKRLNGICAQVLPYLSQEHQQVVGAIERAKQVTAPELN  
SIIRQQLQAHQLSQLALALPLTLPVGLQPPSLPAVSAGTGLLSLSALGSQAHLKEDK  
NGHDGDTHQEDDGEKSD

>sp|P55197|AF10\_HUMAN Protein AF-10 OS=Homo sapiens GN=MLLT10 PE=1 SV=2

MVSSDRPVSLDEVSHSMKEMIGGCCVCSDERGWAENPLVYCDGHGCSVAVHQACYGIVQ  
VPTGPWFRCRKESQERAARVRCELCPHKDGALKRTDNGGWAHVVCALYIPEVQFANVSTM  
EPIVLQSVPHDRYNKTCYICDEQGRESKAATGACMTCNKHGCRQAFHVTCAQFAGLLCEE  
EGNGADNVQYCGYCKYHFSKLLKSKRGSNRSYDQSLSDSSSHSQDKHHEKEKKYKEKDK  
HKQKHKKQPEPSPALVPSLTVTTEKTYTSTSNNSISGSLKRLEDTTARFTNANFQEVSAH  
TSSGKDVSETRGSEGKGGKSSAHSSGQRGRKPGGRNPGTTVSAASPFQGSFSGTPGSV  
KSSSGSSVQSPQDFLSFTSDLRNDSYSHSQSSATKDVHKGESGQEGGVNSFSTLIGL  
PSTSAVTSQPKSFENSPGDLGNSSLPTAGYKRAQTSGIEETVKEKKRKGKQSKHGPGR  
PKGNKNQENVSHLSVSSASPTSSVASAAGSITSSSLQKSPTLLRNGSLQSLSVGSSPVGS  
EISMQRHDGACPTTTFSELLNAIHNGIYNSNDVAVSFPNVVSGSGSSTPVSSHLPQQS  
SGHLQQVGALSPSAVSSAAPAVATTQANTLSGSSLSQAPSHMYGNRSNSSMAALIAQSEN  
NQTDQDLGDNRNRLVGRGSSPRGSLSPRSPVSSLQIRYDQPGNSSLENLPPVAASIEQLL  
ERQWSEGQQFLLEQGTSPDILGMLKSLHQLQVENRRLEEQIKNLAKKERLQLLNAQLSV  
PFPTITANPSPSHQIHTFSAQTAPTTDSLNSSKSPHIGNSFLPDNSLPVLNQDLTSSGQS  
TSSSSALSTPPPAGQSPAQQSGVSGVQVNGVTVGALASGMQVPTSTIPAVSAVGGIIG  
ALPGNQLAINGIVGALNGVMQTPVTMSQNPTPLTHTTVPPNATHPMPATLTNSASGLGLL  
SDQQRQILIHQQQFQQLNSQQLTPEQHQAFLYQLMQHHHQHHQPELQQLQIPGPTQIP  
INNLLAGTQAPPLHTATTNPFLTTHGDNASQKVARLSDKTGPVAQES

>sp|Q8N4X5|AF1L2\_HUMAN Actin filament-associated protein 1-like 2 OS=Homo sapiens GN=AFAP1L2 PE=1 SV=1

MERYKALEQLLTELDDFLKILDQENLSSTALVKKSCLAELLRLYTKSSSSDEEYIYMNV  
TINKQNAESQGKAPEEQGLLPNGEPSQHSSAPQKSLPDLPPPKMIPERKQLAIPKTESP  
EGYEEAEPYDTSLNEDGEAVSSSYESYDEEDGSKGKSAPYQWPSPEAGIELMRDARICA  
FLWRKKWLGGWAKQLCVIKDNRLLCYKSSKDHSPQLDVNLLGSSVIHKEKQVRKKEHKLK  
ITPMNADVIVLGLQSKDQAEQWLRVIEVSGLPSEGASEGNQYTPDAQRFNCQKPDIAEK  
YLSASEYGSSVDGHPEVPETKDVKKKCSAGLKLNLMLNLRKKSTSLPVERSLETSSYL  
NVLVNSQWKSRCWVRDNHLHFYQDRNRSKVAQQPLSLVGCEVVPDPSPDHLYSFRILHK  
GEELAKLEAKSSEEMGHWLGLLLSESGSKTDPEEFTYDYVDADRVSCIVSAAKNSLLLMQ  
RKFSEPNTYIDGLPSQDRQEELYDDVDLSELTAAVEPTEEATPVADDPNERESDRVYDL  
TPVKSFLHGPSSAAQASSPTLSCLDNATEALPADSGPGPTPDEPCIKPENLGEQQLES

LEPEDPSLRITTVKIQTQQRISFPPSCPDVVATPPGASPPVKDRLRVTSAEIKLGKNR  
TEAEVKRYTEEKERLEKKKEEIRGHLAQLRKEKRELKETLLKCTDKEVLASLEQKLKEID  
EECRGEESRRVDLELSIMEVKDNLKKAAGPVTLGTTVDTHLENVSPRPKAVTPASAPD  
CTPVNSATTLKNRPLSVVVTGKGTVLQKAKEWEKKGAS

>sp|P55196|AFAD\_HUMAN Afadin OS=Homo sapiens GN=AFDN PE=1 SV=3

MSAGGRDEERRKLADIHHWNANRLDLFEISQPTEDLEFHGVMRFYFQDKAAGNFATKCI  
RVSSATTQDVIETLAEKFRPDMRMLSSPKYSLYEVHVSGERRLDIDEKPLVVQLNWNKD  
DREGRFVLKNENDAIPPKKAQSNQPEKQKEGVINFKRTLKKEKKEKKKREKEALRQA  
SDKDDRPFGQEDVENSRLAAEVYKMPETSFTRTISNPEVVMKRRRQKLEKRMQEFRSS  
DGRPDSGGTLRIYADSLKPNIPYKTILLSTDPADFAVAEAEKYGLEKENPKDYCIARV  
MLPPGAQHSDEKGAKIEILDDDECPLQIFREWPSDKGILVFQLKRRPPDHIPKTKKHLE  
GKTPKGERADGSGYGSTLPPEKLPYLVELSPGRRNHFAYYNYHTYEDGSDSRDKPKLYR  
LQLSVTEVGTEKLDDNSIQLFPGGIQPHHCDLTNMDGVVTVTPRSMDAETYVEGQRISSET  
TMLQSGMKVQFGASHVFKFVDPQSDHALAKRSVDGGLMVKGPRHKPGIVQETTFDLGGDI  
HSGTALPTSKSTTRLDSDRVSSASSTAERGVMKPMIRVEQQPDYRRQESRTQDASGPELI  
LPASIEFRESSEDSFLSAIINYTNSSTVHFKLSPTYVLYMACRYVLSNQYRPDISPTERT  
HKVIAVVKMVMMEGVYQKQKNIAGALAFWMANASELLNFIKQDRDLSRITLDAQDVLA  
HLVQMAFKYLVHCLQSELNNYMPAFLDDPEENSLQRPKIDDLHTLTGAMSLLRRCRVNA  
ALTIQLFSQLFHFINMWLFNRLVTDPSGLCSHYWGAIIRQQLGHIEAWAEKQGLELAAD  
CHLSRIVQATTLTMDKYAPDDIPNINSTCFKLNSLQLQALLQNYHCAPDEPFIPTDLIE  
NVVTVTAENTADELARSQDREVQLEEDPDLQLPFLLPEDGYSCDVVRNIPNGLQEFDLPLC  
QRGFCRLIPHTRSPGTWTIYFEGADYESHLLRENTLAQPLRKEPEIITVTLKKQNGMGL  
SIVAAGAGQDKLGIYVKSVMKGAADVDGRLAAGDQLLSVDGRSLVGLSQERAAELMTR  
TSSVVTLEVAKQGAIIYHGLATLLNQPSMMQRISDRRGSGKPRPKSEGFELYNSTQNGS  
PESPQLPWAIEYSEPKKLPGDDRLMKNRADHRSSPNVANQPPSPGKSAYASGTTAKITSV  
STGNLCTEEQTPPPPEAYPIPTQTYTREYFTFPASKSQDRMAPPQNQWPNYEEKPHMHT  
DSNHSSIAIQRVTRSQEELREDKAYQLERHRIEAAMDRKSDSDMWINQSSSLDSSSTSSQE  
HLNHSSKSVTPASTLTKSGPGRWKTPAAIPATPVAVSQPIRTDLPPPPPPPPVHYAGDFD  
GMSMDLPLPPPSANQIGLPSAQVAAAERRKREEHQRWYEKEKARLEERERKRREQERK  
LGQMRTQSLNPAPFSPLTAQQMKPEKPSTLQRPQETVIRELQPPQQPRTIERRDLQYITV  
SKEELSSGDSLSPDPWKRAKEKLEKQQQMHI VDMLSKEIQELQSKPDRSAEESDRLRKL  
MLEWQFQKRLQESQKQDEDEDEEDDDVDTMLIMQRLAERRARLQDEERRRQQQLEEMR  
KREAEDRARQEEERRRQEEERTKRDAEEKRRQEEGYYSRLEAERRRQHDEAARRLLEPEA  
PGLCRPPLPRDYEPSPSPAPGAPPPPPQRNASYLKTQVLSPDSLFTAKFVAYNEEEEE  
DCSLAGPNSYPGSTGAAGAHDACRDAKEKRSKSDADSPGSSGAPENLTFKERQRLFSQ  
GQDVSNKVKASRKLTELENLNTK

>sp|O95081|AGFG2\_HUMAN Arf-GAP domain and FG repeat-containing protein 2 OS=Homo sapiens  
GN=AGFG2 PE=1 SV=2

VMMAAKKGPGPGGGVSGGKAEAAAEVWCRRVRELGGCSQAGNRHCFECAQRGVTVYVDI  
TVGSFVCTTCSGLLRGLNPPHRVKSISMTTFTEPEVVFLQSRGNEVCRKIWLGLFDARTS  
LVPDSRDPQKVKEFLQEKYEKKRWYVPPDQVKGPTYTKGSASTPVQGSIPGKPLRTLGL  
DPAPSLSVAASTSSQPVQS HARTSQARSTQPPHSSVKKASTDLLADIGGDPFAAPQMA  
PAFAAFPAFGGQTPSQGGFANFADFSSGPSSSVFGSLPPAGQASFAQPTAGSSQGTPF  
GATPLAPASQPNSLADVGSFLGPGVPAAGVPSSLFGMAGQVPPLQSVTMGGGGGSSTGLA

FGAFTNPFTAPAAQSPLSTNPFQPNGLAPGPGFGMSSAGPGFPQAVPPTGAFASSFPAP  
LFPPQTPLVQQQNGSSFGDLGSAKLGQRPLSQPAGISTNPFMTGPSSSPFASKPPTNPF  
L

>sp|Q8TD06|AGR3\_HUMAN Anterior gradient protein 3 OS=Homo sapiens GN=AGR3 PE=1 SV=1  
MMLHSALGLCLLLVTSSNLAIAIKKEKRPPQTLSRGWGDDITWVQTYEEGLFYAQKSKK  
PLMVIHHEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRIM  
FVDPSLTVRADIAGRYSNRLYTYEPRDLPLLIENMKKALRLIQSEL

>sp|Q86SQ6|AGRA1\_HUMAN Adhesion G protein-coupled receptor A1 OS=Homo sapiens GN=ADGRA1  
PE=2 SV=3

MDLKTVLSLPRYPGEFLHPVVYACTAVMLLCLLASFVYIVHQS AIRISRKGRHTLLNFC  
FHAALTFTVFAGGINRTKYPILCQAVGIVLHSTLSTMLWIGVTARNIYKQVTKAPLCL  
DTDQPPYPRQPLLRFYLVSGGVPIICGVTAA TNIRNYGTEDEDTAYCWWAWEPSLGAFY  
GPAAIITLVTCVYFLGTIVQLRRHPGRRYELRTQPEEQRRLATPEGGRGIRPGTPPAHDA  
PGASVLQNEHSFQAQLRAAAFTLFLFTATWAFGALAVSQGHFLDMVFSCLYGAFCVTLGL  
FVLIIHCAKREDVWCWWACPPRKDAHPALDANGAALGRAACLHSPGLGQPRGFAHPPG  
PCKMTNLQAAQGHASCLSPATPCCAKMHCEPLTADEAHVHLQEEGAFGHDPHLHGCLQGR  
TKPPYFSRHPAEEPEYAYHIPSSLDGSPRSSRTDSPSSLDGPAGHTLACCTQGDPFPM  
VTQPEGSDGSPALYSCPTQPGREAA LGPGHLEMLRRTQSLPFGGPSQNGLPKGKLEGLP  
FGTDGTGNIRTGPWKNETTV

>sp|Q96PE1|AGRA2\_HUMAN Adhesion G protein-coupled receptor A2 OS=Homo sapiens GN=ADGRA2  
PE=1 SV=2

MGAGGRRMRGAPARLLLPLLPWLLLLLAPEAR GAPGCPLSIRSCKCSGERPKGLSGGVPG  
PARRRVVCSGGDLPEPPEPGLLPNGTVTLLLSNNKITGLRNGSFLGLSLEKLDLRNNII  
STVQPGAFLGLGELKRLDLSNNRIGCLTSETFQGLPRLRLNISGNIFSSLQPGVFDELP  
ALKVVDLGTEFLTCDCHLRWLLPWAQNRSLQ LSEHTLCAYPSALHAQALGSLQEAQLCCE  
GALELHTHHLIPSLRQVVFGQDRLPFQCSASYLGNDTRIRWYHN RAPVEGDEQAGILLAE  
SLIHDCTFITSELTLSHIGVWASGEWECTVSMAQGNASKKVEIVVLETSASYCPAERVAN  
NRGDFRWPRTLAGITAYQSCLQYPFTSVPLGGGAPGTRASRRCDRAGRWE PGDYSHCLYT  
NDITRVLYTFVLM PINASNALTAHQLRVYTAEASFSDMMDVVYVAQMIQKFLGYVDQI  
KELVEVMVDMASNMLVDEHLLWLAQREDKACSRIVGALERIGGAALSPHAQHISVNARN  
VALEAYLIKPHSYVGLTCTAFQRREGGVPGTRPGSPGQNPPEPEPPADQQLRFRCTTGR  
PNVSLSSFHIKNSVALASIQLPSSLFSSLPALAPPVPPDCTLQLLVFRNGRLFHSHSNT  
SRPGAAGPGKRRGVATPVI FAGTSGCGVGNLT E P VAVSLRHWAEGAEPVAAWWSQEGPGE  
AGGWTSEGCQLRSSQPNVSALHCQHLGNVAVLMELSAFPREVGGAGLHPVVYPCTALL  
LLCLFATIITYILNHSSIRVSRKGWHMLLNLCFHIA MTS AVFAGGITLTNYQMVCQAVGI  
TLHYSSLSTLLWMGVKARVLHKELTWRAPPPQEGDPALPTPSPMLRFYLIAGGIPLIICG  
ITA AVNIHNRYDHSPYCWLVRPSLGAFYIPVALILLITWYIFLCAGLRLRGPLAQNPKA  
GNSRASLEAGEELRGSTRLRGSGPLLSDSGSLLATGSARVGTPGPPEDGDSLYSPGVQLG  
ALVTTHFLYLAMWACGALAVSQRWLPRVVC SCLYGVAASALGLFVFTTHCARRRDVRASW  
RACCPASPAA PHAPPRALPAA AEDGSPVFGEGPPSLKSSPSGSSGHPLALGPCKLTNLQ  
LAQSQVCEAGAAAGGEGEPEPAGTRGNLAHRHPNNVHHGRRAHKSRAGHRAGEACGKNR  
LKALRGGAAGALELLSSESGSLHNSPTDSYLGSSRNSPGAGLQLEGEPM LTPSEGSDTSA  
APLSEAGRAGQRRSASRDSLKGGGALEKESHRRSYPLNAASLNGAPKGGKYDDVTLMGAE  
VASGGCMKTGLWKSETTV



>sp|Q96Q42|ALS2\_HUMAN Alsin OS=Homo sapiens GN=ALS2 PE=1 SV=2  
MDSKKRSSTEAGSKERGLVHIWQAGSFPITPERLPGWGGKTVLQAALGVKHGVLLTEDG  
EVYSFGTLPWRSGPVEICPSSPILENALVGQYVITVATGSFHS GAVTDNGVAYMWGENSA  
GQCAVANQQYVPEPNPVS IADSEASPLLAVRILQLACGEEHTLALSISREIWA WGTGCQL  
GLITTAFPVTKPQKVEHLAGRVVLQVACGAFHSLALVQCLPSQDLKPVPERCNQCSQLLI  
TMTDKEDHVIISDSHCCPLGVTLTESQAENHASTALSPSTETLDRQEEVFENTLVANDQS  
VATELNAVSAQITSSDAMSSQQNVMGTTEISSARNIPSYPDTQAVNEYLRKLSDHVSRED  
SEHGEKPVPSQPLLEEAI PNLHSPPTTSTSALNSLVVSCASAVGVRVAATYEAGALSLKK  
VMNFYSTTPCETGAQAGSSAIGPEGLKDSREEQVKQESMQGKKSSSLVDIREETE GGSR  
RLSLPGLLSQVSPRLLRKAARVKTRTVVLTPTYSGEADALLPSLRTEVWTWKGKKEGQLG  
HGDVLPRLQPLCVKCLDGKEVIHLEAGGYHSLALTAKSQVYSWG SNTFGQLGHSDFPPTV  
PRLAKISSENGVWSIAAGRDYSLFLVDTEDFQPGLYSGRQDPTEGDNLPENHSGSKTPV  
LLSCSKLGYISRVTAGKDSYLALVDKNIMGYIASLHELAT TERRFYSKLSDIKSQILRPL  
LSLENLGT TTTTVQLQEVASRFSKLCYLIGQH GASLSSFLHGVKEARSLVILKHSSSLFD  
SYTEYCTSITNFLVMGGFQLLAKPAIDFLNKNQELLQDLSEVNDENTQLMEILNTLFFLP  
IRRLHNYAKVLLKLATCFEVASPEYQKLQDSSSCYECLALHLGRKRKEA EYTLGFWKTFP  
GKM TDSL RKPERRLLCESSNRALSQHAGRFSVNWFI LFN DALVHAQFSTHHVFLATLW  
AEPLSEEAGGVNGLKITTP EEQFTLISSTPQE KTKWLRAISQAVDQALRGMSDLPPYGSG  
SSVQRQEPPISRS AKYTFYKDPRLKDATYDGRWLSGKPHGRGV LKWPDGKMYSGMFRNGL  
EDGYGEYRIPNKAMNKEDHYVGHWKEGKMCGQGVYSYASGEVFEGCFQDNMRHGHGLLRS  
GKL TSSSPSMFIGQVWMDKKAGYGVFDDITRGEKYMGMWQDDVCQNGV VVTQFGLYEG  
NFHLNKM MGNGVLLSEDDTIYEGEFSDDWTLSGKGTLTMPNGDYIEGYFSGEWGS GIKIT  
GTYFKPSLYESDKDRPKVFRKLG NLA VPADEKWKAVFDECWRQLGCEGPGQGEVWKA WDN  
IAVALTTSRRQHRDSPEILSRSTQTLESLEFIPQHVGAFSVEKYDDIRKYLIKACDTPL  
HPLGRLVETLVAVYRMTYVGVGANRRLQEAVKEIKSYLKRIFQLVRFLFPELPEEGSTI  
PLSAPLP TERKSFCTGKSDSRSESPEPGYVVTSSG LLLPVLLPRLYPPLFMLYALDNDRE  
EDIYWECVLR LNKQPDIALLGFLGVQRKFWPATLSILGESKKVLPTTKDACFASAVECLQ  
QISTTFTPSDKLKV IQQTFEEISQSVLASLHEDFLWSMDDLFPVFLYVVL RARIRNLGSE  
VHLIEDLMDPYLQHGEQGIMFTTLKACYYQIQREKLN

>sp|P35858|ALS\_HUMAN Insulin-like growth factor-binding protein complex acid labile subunit OS=Homo sapiens GN=IGFALS PE=1 SV=1

MALRKGLALALLLSWVALGPRSLGADPGTPGEAEGPACPAACVCSYDDDADELSVFC  
SSRNLTRLPDGVPGGTQALWLDGNNLSSVPPAAFQNLSSLGFLNLQGGQLGSLEPQALLG  
LENLCHLHLERNQLRSLALGTFAHTPALASLGLSNNRLSRLEDGLFEGLSLWDLNLGWN  
SLAVLPDAAFRGLGSLRELVLAGNRLAYLQPALFSGLAELRELDLSRNALRAIKANVFVQ  
LPRLQKLYLDRNLIAAVAPGAFLGLKALRWLDLSHNRVAGLLEDTFPGLLGLRVLR LSHN  
AIASLRPRTFKDLHFLEELQLGHNRI RQLAERSFEGLGQLEVL TLDHNQLQEVKAGAF LG  
LTNAVVMNLSGNCLRNLP EQVFRGLGKLHSLHLEG SCLGRIRPHTFTGLSGLRRLFLKDN  
GLVGIEEQSLWGLAEELLEDLTSNQLTHLPHRLFQGLGKLEYLLLSRNRLAELPADALGP  
LQRAFWLDVSHNRLEALPNSLLAPLGR LRYLSLRNNSLR TFTPQPPGLERLWLEGNPWDC  
GCPLKALRDFALQNPSAVPRFVQAICEGDDCQPPAYTYNNITCASPEVVGLDLRDLSEA  
HFAPC

>sp|Q15699|ALX1\_HUMAN ALX homeobox protein 1 OS=Homo sapiens GN=ALX1 PE=1 SV=2  
MEFLSEKFALKSPPSKNSDFYMGAGGPLEHVMETLDNESFYSKASAGKCVQAFGPLPRAE

HHVRLERTSPCQDSSVNYGITKVEGQPLHTELNRAMDNCNSLRMSPVKGMQEKGEDELG  
DKCDSNVSSSKRRHRTTFTSLQLEELEKVFQKTHYPDVVYREQLALRTELTEARVQVWF  
QNRRAKWRKRERYGQIQQAKSHFAATYDISVLPRTDSYPQIQNNLWAGNASGGSVVTSCM  
LPRDTSSCMTPYSHSPRTDSSYTGFSNHQNFQSHVPLNNFFTDSLLTGATNGHAFETKPE  
FERRSSSI AVLRMKAKEHTANISWAM

>sp|Q99218|AMELY\_HUMAN Amelogenin, Y isoform OS=Homo sapiens GN=AMELY PE=2 SV=2  
MGTWILFACLVGA AFAMPLPHPGHPGYINFSYENSHSQAINVDRIALVLTPLKWYQSMI  
RPPYSSYGYEPMGGWLHHQIIPVVSQQHPLTHTLQSHHHIPVVPAAQQPRVRQQALMPVPG  
QQSMTPTQHHQPNLPLPAQQPFQPPVQPPHQPMPQPPVQPMQPLLQPPLPPMFPLR  
PLPPILPDLHLEAWPATDKTKQEEVD

>sp|Q5JTC6|AMER1\_HUMAN APC membrane recruitment protein 1 OS=Homo sapiens GN=AMER1 PE=1  
SV=2

METQKDEAAQAKGAAASGSTREQTAEKGAKNKAAEATEGPTSEPSSSGPGRLLKKTAMKLF  
GGKKGICTLPSFFGGGRSKGSGKSSKKGLSKSKTHDGLSEAAHGPEDEVVSEGTFSLPL  
PELPCQFPSSQSAHGALETGSRCTSVAGATEKAVAEKFPSPMPKPKKGLKGFFSSIRRH  
KSKVTGAEQSEPGAKGPVRVRARPHEHVSSAPQVPCFEETFQAPRKENANPQDAPGPKVS  
PTPEPSPPATEKMACKDPEKPMACASAHVQPKPAPEASSLEEPHSPETGEKV VAGEVNP  
PNGPVGDPLSLLFGDVTSLKSFDSLTCGDI IAEQDMSMTDSMASGGQRANRDGTRSS  
CLVTYQGGGEEMALPDDDDDEEEEEEEVELEEEEEVEKEEEEDDDLEYLWETAQMYPRPN  
MNLGYHPTTSPGHHGYMLLDPVRSYPGLAPGELLTPQSDQESAPNSDEGYDSTTPGFE  
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NFEPFLSSRPPGAMETEEERLVTIQKQLLYWELRREQLEAQEARAREAHAREAHAREAYT  
REAYGREAYAREAHWTAEHGREARTREAAQAREVRCRETQVRETQARQEKPVLEYQMRPLG  
PSVMGLAAGVSGTSQISHRGITSAPPTASSEPDWRDFRPLEKRYEGTCSKKDQSTCLMQ  
LFQSDAMFEPDMQEANFGGSPRRAYPTYSPPEDPEEEVEKEGNATVSFSQALVEFTSNG  
NLFSSMSCSSDSDSFTQNLPELPPMVTFDIADVERDGEKGCEENPEFHNDLAALEA  
FELGYHKKHAFNNYHSRFGQLPWGVSSLPRYLGLPGLHPRPPPAAMALNRRSRSLDTAE  
TLEMELSNLHVQGYLESDELQAQQEDSDEEDEEEEEGEWSRDSPLSLYTEPPGAYDWPA  
WAPCPLPVGPGPAWISPNQLDRPSSQSPYRQATCCIPPMTMSISLVPESRAPGESGPQL  
ARPSHLHLPMPGPCYNLQPQASQSMRARPDRVLLPVDEPSCSSSSGGFSPSPLPQAKPVG  
THGIPQLPRVRPEHPQPQPTHYGPSSLDLSKERAEEQGASLATSYSSTAMNGNLAK

>sp|Q6DCA0|AMERL\_HUMAN AMMECR1-like protein OS=Homo sapiens GN=AMMECR1L PE=1 SV=1  
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RENVSDLTLGPGNSPITRMNPASGALSPLPRPNGTANTTKNLVVTAEMCCYCFDVLCHL  
YGFPQPRLPFTNDPYPLFVTWKTGRDKRLRGICIGTFAMNLHSGLEAYTLTSALKDSRF  
PPLTREELPKLFCVSLLTNFEDASDYLDWEVGVHGIRIEFINEKGVKRTATYLP  
EVAKEQDWDQIQITIDSLLRKGGFKAPITSEFRKTIKLTRYRSEKVTISYAEYIASRQHC  
FQNGTLHAPPLYNHYS

>sp|Q9UKV5|AMFR\_HUMAN E3 ubiquitin-protein ligase AMFR OS=Homo sapiens GN=AMFR PE=1 SV=2  
MPLLFLEFRFPWPSLRTYTGSLGLALLGTIISAYRALSQPEAGPGEPDQLTASLQPEPPAP  
ARPSAGGPRARDVAQYLLSDSLFVWLVNTACCVLMLVAKLIQCIVFGPLRVSERQHLKD  
KFWNFIFYKFIFIFGVLVNQTVTEEVMWCLWFAGLVFLHLMVQLCKDRFEYLSFSPTTPM  
SSHGRVLSLLVAMLLSCCGLAAVCSITGYTHGMHTLAFMAAESLLVTVRTAHVILRYVIH  
LWDLNHEGTWEGKGTYYYYTDFVMELTLLSLDLMHHIHMLLFGNIWLSMASLVIFMQLRY

LFHEVQRRIRRHKNYL RVVGNMEARFAVATPEELAVNDDCAICWDSMQAARKLP CGHLF  
HNSCLRSWLEQDTS CPTCRMSLNIADNNRVREEHQGENLDENLVPVAAAEGRPRLNQHNH  
FFHFDGSRIASWLP SFSVEVMHTTNILGITQASNSQLNAMAHQIQEMFPQVPYHLVLQDL  
QLTRSVEITTDNILEGRIQVPFP TQRSDSIRPALNSPVERPSSDQEEGETSAQTERVPLD  
LSPRLEETLDFGEVEVEPSEVEDFEARGSRFSKSADERQ RMLVQRKDELLQQARKRFLNK  
SSEDDAASESFLPSEGASSDPVTLRRRMLAAAAERRLQKQQTS

>sp|Q86SJ2|AMG02\_HUMAN Amphoterin-induced protein 2 OS=Homo sapiens GN=AMIG02 PE=1 SV=1  
MSLRVHTLPTLLGAVVRPGCRELLCLLMITVTVGPGASGVCPTACICATDIVSCTNKNLS  
KVPGNLFRLIKRLDLSYNRIGLLDSEWIPVSFAKLNTLILRHNNITSISTGSFSTTPNLK  
CLDLSSNKLKTVKNAVFQELKVLEVLLLYNNHISYLDPSAFGGLSQLQKLYLSGNFLTQF  
PMDLYVGRFKLAELMFLDVSYNRIP SMPMHINLVPGKQLRGIYLHGNPFVCDCLYSL  
VFWYRRHFSSVMDFKNDYT CRLWSDSRHSRQVLLLQDSFMNCSDSI INGSFRALGFIHEA  
QVGERLMVHCDSKTGNANTDFI WVGPDNRLLLEPKEMENFYVFHNGSLVIESPRFEDAGV  
YSCIAMNKQRLNETVDVT INVSNTVSRSHAHEAFNTAFTTLAACVASIVLVLLYLYLT  
PCPCKCKTKRQKNMLHQSNHSSILSPGPASDASADERKAGAGKRVVFLEPLKDTAAGQN  
GKVRLFPSEAVIAEGILKSTRGKSDSDSVNSVFS DTPFVAST

>sp|Q8IY45|AMN1\_HUMAN Protein AMN1 homolog OS=Homo sapiens GN=AMN1 PE=2 SV=4  
MPRPRVSQLLDLCLWCFMKNISRYLTDIKPLPPNIKDRLIKIMSMQGQITDSNISEILH  
PEVQTLDLRSCDISDAALLHLSNCRKLKKNLNLASKGNRVSVTSEG IKA VASSCSYLHEA  
SLKRCCNLTD EGVALALNCQLLKIIDLGGCLSITDVSLHALGKNCPFLQCVD FSATQVS  
DSGVIALVSGP CAKKLEEIHMGHCVNLT DGAVEAVLT YCPQIRILLFHGCPLITDHSREV  
LEQLVGPNKLKQVTWTVY

>sp|Q9BXJ7|AMNLS\_HUMAN Protein amnionless OS=Homo sapiens GN=AMN PE=1 SV=2  
MGVLGRVLLWLQLCALTQAVSKLWVPNTDFDVAANWSQNRTPCAGGAVEFPADKMVSVLV  
QEGHAVSDMLPLDGELVLASGAGFGVSDVGSHLDCGAGEPAVFRDSRFSWHDPHLWRS  
GDEAPGLFFVDAERVPCRHDDVFPPSASF RVGLGPGASPVVRVRSISALGRTFTRDEDLA  
VFLASRAGRRLRFHGP GALSVGPEDCADPSGCVCGNAEAQPWICAALLQPLGGRCPQAACH  
SALRPQGGCCDLGAVVLLTHGPAFDLERYRARILD TFLGLPQYHGLQVAVSKVPRSSRL  
READTEIQVVLVENG PETGGAGRLARALLADVAENGEALGVLEATMRESGAHVWGSSAAG  
LAGGVAAA VLLALLVLLVAPPLLRAGRLRWR RHEAAAPAGAPLGRNPVFDVTASEELP  
LPRRLSLVPKAAADSTSHSYFVNPLFAGAEAEA

>sp|P00326|ADH1G\_HUMAN Alcohol dehydrogenase 1C OS=Homo sapiens GN=ADH1C PE=1 SV=2  
MSTAGKVIKCAAVLWELKKPFSIEEVEVAPPKAHEVRIKMVAAGICRSDEHVVS GNLVT  
PLPVILGHEAAGIVESVGEGVTTVKPGDKVIPLFTPQCGKCRICKNPESNYCLKNDLGNP  
RGTLQDGTTRFTCSGKPIHHFVG VSTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFSTG  
YGS AVKAVKVT PGSTCAVFGLGGVGLSVVMGCKAAGAARI IAVDINKDKFAKAKELGATE  
CINPQDYKKPIQEV LKEMTDGGVDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPDSQ  
NLSINPMLLLTGRTWKGAIFGGFKSKESVPKL VADFMAKKFSLDALITNILPF EKINEGF  
DLLRSGKSIRT VLT F

>sp|P54922|ADPRH\_HUMAN [Protein ADP-ribosylarginine] hydrolase OS=Homo sapiens GN=ADPRH  
PE=1 SV=1  
MEKYAAMVLSAAGDALGYNGKWEFLQDGEKIHRQLAQLGGLDALDVGRWRVSDDTVMH  
LATAELVEAGKAPKLTQLYYLLAKHYQDCMEDMDGRAPGGASVHNAMQLKPGKPNGWRI  
PFNSHEGGCGAAMRAMCIGLRFPHHSQLDTLIQVSIESGRMTHHHPTGYLGALASALFTA

YAVNSRPPLQWGKGLMELLPEAKKYIVQSGYFVEENLQHWSYFQTKWENYLKLRGILDGE  
SAPTFPESFGVKERDQFYTSLSYSGWGGSSGHDAPMIAYDAVLAAGDSWKELAHRAFFHG  
GDSDSTAAIAGCWWGVMYGFKGVSPSNYEKLEYRNRLEETARALYSLGSKEDTVISL

>sp|Q9UL18|AGO1\_HUMAN Protein argonaute-1 OS=Homo sapiens GN=AGO1 PE=1 SV=3

MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIK  
PDKCPRRVNREVVEYVMVQHFKPQIFGDRKPYVDGKKNIYTVTALPIGNERVDFEVTIPGE  
GKDRIFKVSIKWLAIVSWRMLHEALVSGQIPVPLESVQALDVAMRHLASMRYTPVGRSFF  
SPPEGYYHPLGGGREVWFGFHQSVPAMWKMLNIDVSATAFYKAQPVIEFMCEVLDIRN  
IDEQPKPLTDSQVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESQG  
TVECTVAQYFKQKYNLQLKYPHLPCLQVGQEKGHTYLPLEVCNIVAGQRCIKKLTDNQTS  
TMIKATARSAPDRQEEISRLMKNASYNLDPYIQEFGIKVKDDMTEVTGRVLPAPILQYGG  
RNRAIATPNQGVWDMRGKQFYNGIEIKVWAIACFAPQKQCREEVLNFTDQLRKISKDAG  
MPIQGQPCFCKYAQGADSVPEMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGM  
ATQCVQVKNVKTSPQTLNCLKINVKLGGINNILVPHQRSASFQPVIFLGADVTHPP  
AGDGKPSITAVVGSMDAHPSTRYCATVRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPT  
RIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDYQPGITYIVVQKRHHTRLFCADKNE  
RIGKSGNIPAGTTVDNITHPFEFDFYLCSHAGIQGTSRPSHYVVLWDDNRFTADELQIL  
TYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQAL  
AKAVQVHQDTLRTMYFA

>sp|Q8IWK6|AGRA3\_HUMAN Adhesion G protein-coupled receptor A3 OS=Homo sapiens GN=ADGRA3  
PE=1 SV=2

MEPPGRRRGRAQPPLLLPLSLLALLALLGGGGGGGAAALPAGCKHDGRPRGAGRAAGAAE  
GKVCCSSELAQVLPDPTLPNRTVTILSNNKISELKNGSFSGLSLLERLDLRNNLISSI  
DPGAFWGLSSLKRLDLTNNRIGCLNADIFRGLTNLVRNLNLSGNLFSSLSQGTFDYLASLR  
SLEFQTEYLLCDCNILLMHRWVKEKNITVRDTRCVYPKSLQAQPVTVGVKQELLTCDPPLE  
LPFYMTPSHRQVVFEGDSLFPQCMASYIDQDMQVLWYQDGRIVETDESQGFVEKNMIH  
NCSLIASALTISNIQAGSTGNWGCHVQTKRGNTRTVDIVVLESSAQYCPPERVVNNKGD  
FRWPRTLGITAYLQCTRNTHGSGIYPGNPQDERKAWRRCDRGGFWADDDYSRCQYANDV  
TRVLYMFNQMPLNLNAVATARQLLAYTVEANFSDKMDVIFVAEMIEKFRFTKEEKSK  
ELGDVMVDIASNIMLADERVLWLAQREAKACSRIVQCLQRIATYRLAGGAHVYSTYSPNI  
ALEAYVIKSTGFTGMTCTVFQKVAASDRTGLSDYGRDPEGNLDKQLSFKCNVSNTFSSL  
ALKNTIVEASIQPPSLFSPKQKRELRPDDSLYKLQLIAFRNGKLPATGNSTNLADDG  
KRRTVVTPIVILTKIDGVNVDTHHIPVNVTLRRIAHGADAVAAWDFDLLNGQGGWKS DGC  
HILYSDENITTIQCYSLSNYAVLMDLTGSELYTQAASLLHPVYTTAIILLCLLAVIVS  
YIYHHSIRISLKS WHMLVNLCFHIFLTCVVFVGGITQTRNASICQAVGIILHYSTLATV  
LWVGVTARNIYKQVTKAKRCQDPDEPPPPRPMLRFYLIGGGIPIIVCGITAAANIKNY  
GSRPNAPYCWMAWEP SLGAFYGPASFITFVNCMYFLSIFIQLKRHPERKYELKEPT EEQQ  
RLAANENGEINHQDSMSLSLISTSALENEHTFHSQLLGASLTLLLYVALWMFGALAVSLY  
YPLDLVFSFVFGATSLSFSAFFVVHHCVNREDVRLAWIMTCPGRSSYSVQVNVQPPNSN  
GTNGEAPKCPNSSAESSCTNKSASSFKNSSQGCKLTNLQAAAAQCHANSPLNSTPQLDN  
SLTEHSMNDNDIKMHVAPLEVQFRNTVHSSRHHKNSKGHRASRLTVLREYAYDVPTSVEG  
SVQNGLPKSRLGNNEGHSRSTRAYLAYRERQYNPPQQDSSDACSTLPKSSRNFEKPVSTT  
SKKDALRKPAVVELENQQKSYGLNLAIQNGPIKSNGQEGPLLGTGSTGNVRTGLWKHETT

V

>sp|Q8IZF7|AGRF2\_HUMAN Adhesion G-protein coupled receptor F2 OS=Homo sapiens GN=ADGRF2  
PE=2 SV=1

MGLTAYGNRRRVQPGELPFGANLTLIHTRAQPVICSKLLLTkRVSPISFFLSKFQNSWGED  
GWVQLDQLPSPNAVSSDQVHCSAGCTHRKCGWAASKSKEKVPARPHGVCdGVCTDYSQCT  
QPCPPDTQGNMGFSCRQKTWHKITDTCQTLNALNIFEEDSRLVQPFEDNIKISVYTGKSE  
TITDMLLQKCPTDLSCVIRNIQQSPWIPGNIaVIVQLLHNISTAIWTGVDEAKMQSYSTI  
ANHILNSKSISNWTfIPDRNSSYILLHSVNSFARRLFIDKHPVDISDVFihTMGTTISGD  
NIGKNFTFSMRINDTSNEVTGRVLISRDELKVPSPSQVISIAFPTIGAILEASLLENVT  
VNLGLVLSAILPKELKRISLIFEKISKSEERRTQCVGWHSVENRWDQQACKMIQENSQQAV  
CKCRPSKLFTSFSILMSPHILESILTYITYVGLGISICSLILCLSIEVLVWSQVTKTEI  
TYLRHVCIVNIAATLLMADVWFIVASFLSGPITHHKGCVAAATFFVHFFYLSVFFWMLAKA  
LLILYGIMIVFHTLPKSVLVASLFSVGYGCPAIAAITVAATEPGKGYLRPEICWLNWDM  
TKALLAFVIPALAIVVVNLITVTLVIVKTQRAAIGNSMFQEVRAIVRISKNIaILTPLLG  
LTWGFQVATVIDDRSLAFHII FSLNNAFQVSPDASDQVQSERIHEDVL

>sp|Q8IZF3|AGRF4\_HUMAN Adhesion G protein-coupled receptor F4 OS=Homo sapiens GN=ADGRF4  
PE=2 SV=3

MMKMSQATMICCLVFFLSTECshYRSKIHLKAGDKLQSPegKPKTGRIQEKCEGPCISSS  
NCSQPCAkdFhGEIGFTCNQKKWQKSAETCTSLSVEKLFKDSTGASRLSVAAPSIPLHIL  
DFRAPETIESVAQGIrKNCPFDYACITDMVKSETTSGNIAFIVELLKNISTDLSDNVTR  
EKMKSYSEVANHILDtaAISNwAFIPKNASSDLLQSVNLFARQLHIHNSENIVNELFI  
QTKGFHINHNTSEKSLNFSMSMNNTTEDILGMVQIPRQELRKLWPNASQAISIAFPTLGA  
ILREAhLQNVSLPRQVNLVSVVLPERLQEII LTFEKINKTRNARAQCVGWHSKRRWD  
EKACQMMLDIRNEVKRCrNYTSVVMSFSILMSSKSMTDKVLDYITCIGLSVSILSLVLCL  
IIEATVWSRVVVTEISYMRHVCIVNIAVSLLTANVWFIIGSHFNikaQDYNMCVAVTFFS  
HFFYLSLFFWMLFKALLIIYGILVIFRRMMKSRMMVIGFAIGYGCPliIAVTTVAITEPE  
KGYMRPEACWLNWDNTKALLAFAIPAFVIVAVNLIVLVAVNTQRPSIGSSKSQDVVii  
MRISKNVaILTPLLGLTWGFGIATLIEGTSLTFHII FALLNAFQGGFFILLFGTImDhKIR  
DALRMRMSSLKGKSRAaENASLGPTNGSKLMNRQG

>sp|Q8IZF2|AGRF5\_HUMAN Adhesion G protein-coupled receptor F5 OS=Homo sapiens GN=ADGRF5  
PE=1 SV=3

MKSPRRtTLCLMFIViYSSKAALNWNyESTIHPLSLHEHEPAGEEALRQKRAVATKSPTA  
EEYTVNIEISFENASFLDPIKAYLNSLSFPIHGNTDQITDILSINVTTVCRPAGNEIWC  
SCETGYGWPRERCLHNLICQERDVFLPGHHCsCLKELPPNGPFCLLQEDVTLNMRVRLNV  
GFQEDLMNTSSALYRSYKTDLetaFRKGyGILPGFGVTVTGfKSGSVVVTYEVKTTPPS  
LELIHKANEQVVQSLNqTYKMDYNSFQAVTINESNFFVTPEIIFEGDTVSLVCEKEVLSS  
NVSWRYEEQQLEIQNSSRFSiYtALFNMTSVSKLTIHNITPGDAGEYVCKLILDIFEYE  
CKKKIDVMPiQILANEEMKVMCDNNPVSLNCCSQGNVNWSKVEWKQEGKINIPGTPETDI  
DSSCSRYTLKADGTQCPSGSSGTTVIYtCEFISAYGARGSANIKVTFISVANLTITPDPI  
SVSEGQNFSIKCISDVSNYDEVWNTSAGIKIYQRfYtTRRYLDGAESVLTvKTSTREWN  
GTYHCIFRYKNSYSIATKDVIVHPLPLKLNIMVDPLEATVSCSGSHHIKCCIEEDGDYKV  
TFHTGSSSLPAAKEVNKKQVCYKHNFNASSVSWCSKTVDVcCHFTNAANNSVWSPSMKLN  
LVPGENITCQDPVIGVGEPgKVIQKLCRFSNPSSPESPIGGTITYKCVGSQWEEKRNDc  
ISAPINSLlQMAKALIKSPSQDEMLPTYLKDLsISIDKAEHEISSSPGSLGAiINILDLL  
STVPTQVNSEMMTHVLSTVNVILGKPVlNTWKVLQQQWTNqSSQLLHSVERFSQALQSGD

SPPLSFSQTNVQMSSMIKSSHPETYQQRVFVPYFDLWGNVVIDKSYLENLQSDSSIVTM  
AFPTLQAILAQDIQENNAESLVMTTTVSHNTTMPFRISMFTKNNSPSGGETKCVFWNFR  
LANNTGGWDSSGCYVEEGDGDNVTCICDHLTSFSILMSPDSDPSSLLGILLDIISYVGV  
GFSILSLAACLVVEAVVWKSVTKNRTSYMRHTCIVNIAASLLVANTWFIVVAAIQDNRYI  
LCKTACVAATFFIHFFYLSVFFWMLTLGLMLFYRLVFIHETSRSTQKAIACFLGYGCPL  
AISVITLGATQPREVYTRKNVCWLNWEDTKALLAFAIPALIIVVNITITIVVITKILRP  
SIGDKPCKQEKSSLFQISKSIGVLTPLLGLTWGFLTTVPFGTNLVFHIIFAILNVFQGL  
FILLFGCLWDLKVQEALLNKFSLSRWSSQHSKSTSLGSSTPVFSMSSPISRFRNNLFGKT  
GTYNVSTPEATSSSLENNSSSASSLLN

>sp|Q8IZF4|AGRG5\_HUMAN Adhesion G-protein coupled receptor G5 OS=Homo sapiens GN=ADGRG5  
PE=2 SV=3

MDHCGALFLCLCLTLQNATTETWEELLSYEMNMQVSRGRSSVFSSRQLHQLEQMLLNTS  
FPGYNLTQTPTIQSLAFKLSCDFSGLSLTSATLKRVPQAGGQHARGQHMQFPAELTRD  
ACKTRPRELRILICIYFSNTHFFKDENNSSLNLYVLGAQLSHGHVNNLRDPVNISFVHNQ  
SLEGYTLTCVFWKEGARKQPWGGWSPEGCRTEQPSHSQVLCRCNHLTYFAVLMQLSPALV  
PAELLAPLTYISLVGCSISIVASLITVLLHFHFRKQSDSLTRIHNNLHASVLLNIAFLL  
SPAFAMSPVPGSACTALAAALHYALLSCLTWMAIEGFNLYLLGRVYNIYIRRYVFKLGV  
LGWGAPALLVLLSLSVKSSVYGPTIPVFDSEWNGTGFQNMSCWVRSPVHSLVMGYG  
GLTSLFNLVVLAWLWTLRRLRERADAPSVRACHDTVTVLGLTVLLGTTWALAFFSFGVF  
LLPQLFLFTILNSLYGFFLFLWFCSQRCRSEAEAKAQIEAFSSSQTTQ

>sp|Q96K78|AGRG7\_HUMAN Adhesion G-protein coupled receptor G7 OS=Homo sapiens GN=ADGRG7  
PE=1 SV=2

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GRCICTEEWKGLRCTIANFCENSTYMGFTFARIPVGRYGPSLQTCGKDTNAGNPMVRL  
CSLSLYGEIELQKVTIGNCENLETLEKQVKDVTAPLNNISSEVQILTSANKLTAENIT  
SATRVVGQIFNTSRNASPEAKKVAIVTVSQLLDASEDAFQVAATANDDALTTLIEQMET  
YSLSLGNQSVVEPNIAIQSANFSSENAVGPSNVRFSVQKGASSSLVSSSTFIHTNVDGLN  
PDAQTELQVLLNMTKNYTKTCGFVVYQNDKLFQSKTFTAKSDFSQKIISKTDENEQDQS  
ASVDMVFSPKYNQKEFQLYSYACVYWNLSAKDWDTYGCQKDKGTDGFLRCRCNHTTNFAV  
LMTFKKDYQYPKSLDILSNVGCALSVTGLALTVIFQIVTRKVRKTSVTWVLVNLCSMLI  
FNLLFVFGIENSNNKLTSDGIDNNIDFDNNDIPRTDTINIPNPMCTAIAALLHYFLLVT  
FTWNALSAAQLYLLIRTMKPLPRHFILFISLIGWGPVPAIVVAITVGVYISQNGNNPQWE  
LDYRQEKICWLAIPENGVIKSPLLWSFIVPTIILISNVVMFITISIKVLWKNQNLTS  
TKKVSSMKKIVSTLSVAVVFGITWILAYLMLVNDDIRIVFSYIFCLFNTTQGLQIFILY  
TVRTKVFQSEASKVLMLLSSIGRRKSLPSVTRPRLRVKMYNFLRSLPTLHERFRLLTSP  
STEEITLSESDNAKESI

>sp|Q9HBW9|AGRL4\_HUMAN Adhesion G protein-coupled receptor L4 OS=Homo sapiens GN=ADGRL4  
PE=1 SV=3

MKRLPLLVVSTLLNCSYTNCTKTPCLPNAKCEIRNGIEACYCNMGFSNGVTICEDDN  
ECGNLTQSCGENANTNTEGSYYCMVPGFRSSSNQDRFITNDGTVCIEVNNANCHLDNV  
CIAANINKTLTKIRSIKEPVALLQEVYRNSVTDLSPTDIIITYIEILAESSSLLGYKNNTI  
SAKDTLSNSTLTEFVKTVNNFVQRDTFVVWDKLSVNHRRLTKLMTVEQATLRISQSF  
QKTTEFDTNSTDIALKVVFFDSYNMKHIHPHMNDGDYINIFPKRKAAYDSNGNVAFAV  
YYKSIGPLSSSDNFLKPNQYDNSEEEERVISSVISVSMSSNPPTLYELEKITFTLSHR

KVTDYRSLCAFWNYPDTMNGSWSSEGCELTYSNETHTSCRCNHLTHFAILMSSGPSIG  
IKDYNILTRITQLGIIISLICLAICIFTFWFFSEIQSTRTTIHKNLCCSLFLAELVFLVG  
INTNTNKLFCSSIIAGLLHYFFLAFAWMCIEGHIHLYLIVGVVIYNKGFLHKNFYIFGYLS  
PAVVVGFSAAALGYRYGTTKVCWLSTENNFIWSFIGPACLIILVNLLAFGVIIYKVRHT  
AGLKPEVSCFENIRSCARGALALLFLLGTTWIFGVLHVHASVVTAYLFTVSNAFQGMFI  
FLFLCVLSRKIQEEYYRLFKNVPCCFGCLR

>sp|P30556|AGTR1\_HUMAN Type-1 angiotensin II receptor OS=Homo sapiens GN=AGTR1 PE=1 SV=1  
MILNSSTEDGIKRIQDDCPKAGRHNIFVMIPTLYSIIFVVGIFGNSLVVIVIFYMKLK  
TVASVFLNLALADLCFLTLPLWAVYTAMEYRWPFGNLYCKIASASVSFNLYASVFLT  
CLSIDRYLAIVHPMKSRLRRTMLVAKVTCIIIWLLAGLASLPATIIHRNVFFIENTNITVC  
AFHYESQNSTLPIGLGLTKNILGFLFPFLIILTSYTLIWKALKKAYEIQKNKPRNDDIFK  
IIMAIVLFFFWSWIPHQIFTFLDVLILQLGIIRDCRIADIVDTAMPITICIAFYNNCLNPL  
FYGFLGKKFKRYFLQLLKYIPPKAKSHSNLSTKMSTLSYRPSDNVSSSTKKPAPCFEVE

>sp|P50052|AGTR2\_HUMAN Type-2 angiotensin II receptor OS=Homo sapiens GN=AGTR2 PE=1 SV=1  
MKGNSTLATTSKNITSGLHFLVNISGNNSTLNCQKPSDKHLDAIPILYYIIFVIGFL  
VNIVVVTLFCCQKGPKKVSSIYIFNLAVADLLLLATLPLWATYYSYRYDWLFGPVMCKVF  
GSFLTLMNFASIFFITCMSVDRYQSVIYPFLSQRRNPWQASYIVPLVWCMACLSSLPTFY  
FRDVRTIEYLGVNACIMAFPEKYAQWSAGIALMKNILGFIIPLIFIATCYFGIRKHLK  
TNSYGKNRITRDQVLKMAAAVLAFLIICWLPFHVLTFLDALAWMGVINSCEVIAVIDLAL  
PFAILLGFTNSCVNPFLYCFVGNRFQQLRSVFRVPITWLQGKRESMSCKSSSLREMET  
FVS

>sp|043823|AKAP8\_HUMAN A-kinase anchor protein 8 OS=Homo sapiens GN=AKAP8 PE=1 SV=1  
MDQGYGGYGAWAGANTQAGYGTGVASWQGYENYNYYGAQNTSVTTGATYSYGPASWEA  
AKANDGGLAAGAPAMHMASYGPEPCTDNDSLIAKINQRLDMMSKEGGRGGSGGGEGTIQ  
DRESSFRFPFESYDSRCLPEHNPYRPSYSYDYEDLGS DRNGSFGGQYSECRDPARER  
GSLDGMGRGRGGRFQDRSNPFTFMRSDPFVPPAASSEPLSTPWNELNYVGGRLGGPSP  
SRPPPSLFSQSMAPDYGVMMQAGGYDSTMPYGCGRSQPRMRDRPKRRGFDRFGPDG  
TGRKRKQFQLYEEDPTKLARVDSEGDSENDAAAGDFRSGDEEFKGEDELCDSGRQRGEK  
EDEDEDVKKRREKQRRDRTRDRAADRIQFACSVCKFRSFDDEEIQKHLQSKFHKETLRF  
ISTKLDPKTVEFLQEYIVNRNKKIEKRRQELMEKETAKPKPDPFKGIGQEHFFKKIEAAH  
CLACDMLIPAQPQLQRHLHSDVHNHNRRLAAEQFKKTSLVHAKSVLNNRHIVKMLEKYL  
KGEDPFTSETVPEMEGDDNLGGEDKKETPEEVAADVLAEVITA AVRAVDGEGAPAPESS  
GEPAEDEGPTDTAEAGSDPQAEQLLEEQVPCGTAHEKGVPKARSEAAEAGNGAETMAAEA  
ESQTRVAPAPAAADAEVEQTDAESKDAVPT

>sp|A6NH2|AKD1B\_HUMAN Ankyrin repeat and death domain-containing protein 1B OS=Homo sapiens GN=ANKDD1B PE=3 SV=3  
MDPAGRARGGATAGLLLRAAAAAGLREDLWGAAALPWRSLSRIPKREGLGEEDTAVA  
GHELLLPNERSFQNAAKSNLDLMEKLFKKNVNVVNNMNRALHFAVGRNHL SAVDFL  
LKHKARVDVADKHGLTVIHAAWSGSLEVMLMLVKAGADQRAKNQDGMSALHFATQSNHV  
RIVEYLIQDLHLKDLNQPDEKGRKPFLAAERGHVEMIEKLTFLNLHTSEKDKGGNTALH  
LAAKHGHS PAVQVLLAQWQDINEMNELNISSLQIATRNGHASLVNFLSENVDLHQKVEP  
KESPLHLVVINNHTVNVNLSLQHDIDILNQKQQTPLHVAADRGNVELVETLLKAGCDL  
KAVDKQGKTALAVASRNSHSLVVGMLIKAERYAWREEHHESIRDPSTGFTLTFKQDHSL  
ETRHIRTLLWDLAYQLKANWQRLARSWNFTDDQIRAIIEEQWSGNESFREHGHRAILLI

LHGTLMTQGDPKQLYEELVHAGFPKLAEKTRHFKSKTDSNSKKCVVS

>sp|P31749|AKT1\_HUMAN RAC-alpha serine/threonine-protein kinase OS=Homo sapiens GN=AKT1  
PE=1 SV=2

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QLMKTERPRPNTFIIIRCLQWTTVIERTFHVETPEEREETTAIQTVADGLKKQEEEEEMDF  
RSGSPSDNSGAEMEVS LAKPKHRVTMNEFEYLKLLGKGTFGKVILVKEKATGRYYAMKI  
LKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCFVMEYANGGELFFHLS  
RERVFSEDRARFYGAIEVSALDYLHSEKNVYRDLKLENMLDKDGHIKITDFGLCKEGI  
KDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVYEMMCGRLPFYNQDHEKLFEL  
ILMEEIRFPRTLGPPEAKSLLSGLLKDPKQRLGGGSEDAKEIMQHRFFAGIVWQHVEKK  
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>sp|P43353|AL3B1\_HUMAN Aldehyde dehydrogenase family 3 member B1 OS=Homo sapiens  
GN=ALDH3B1 PE=1 SV=1

MDPLGDTLRLREAFHAGRTRPAEFRAAQLQGLGRFLQENKQLLHDALAQDLHKSFAFESE  
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TLVPLVGALAAGNCVVLKPSEISKNEKILAEVLPQYVDQSCFAVVLGGPQETGQLEHR  
FDYIFFTGSPRVGKIVMTAAAKHLTPVTLELGGKNPCYVDDNCDPQTVANRVAWFRYFNA  
GQTCVAPDYVLCSPEMQERLLPALQSTITRFYGDQPSSPNLGRINQKQFQRLRALLGC  
GRVAIGGQSDSDRYIAPTIVLDVQEMEPVMQEEIFGPILPIVNVQSLDEAIEFINRREK  
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>sp|Q96QP1|ALPK1\_HUMAN Alpha-protein kinase 1 OS=Homo sapiens GN=ALPK1 PE=2 SV=3

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LDVSGKLLQVAKGLHLQPATPIAPQVVIQARISVNSGKLLKAEYILSSILSNGATGT  
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ILADIFVSMKNDYEKFKNNPQINLSLLKEFDHLLSAAEACKLAAAFSAYTPLFVLTAV  
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LTTVHRRHLHGETGTVHAASQLCKEAMGKLYNFSTSSRSQDREALSQEVMSVIAQVKEHLQ  
VQSFSNVDDRSYVPESFECRLDKLILHGQGFQKILDTYSQHHTSVCEVFESDCGNNKNE  
QKDAKTGVCITALKTEIKNIDTVSTTQEKPHCQRDTGISSSLMGKNVQRELRRGGRNWT  
HSDAFRVSLDQDVETETEPSDYSNGEAVFNKSLSGSQTSSAWSNLGFSSSASWEEVNY  
HVDDRSARKEPGKEHLVDTQCSTALSEELENDREGRAMHSLHSLHDLSLQEPNNDNLEP  
SQNQPPQQMPLTPFSPHNTPGIFLAPGAGLLEGAPEGIQEVRNMGPRNTSAHSRPSYRSA  
SWSSDSGRPKNMGTHPSVQKEEAFEIIVEFPETNCDVKDRQGKEQGEEISERGAGPTFKA  
SPSWVDPEGETAESTEDAPLDFHRVLHNSLGNISMLPCSSFTPNWPVQNPDSRKSGGPVA  
EQGIDPDASTVDEEGQLLSDMDVPCTNGHGSRLCILRQPPGQRAETPNSSVSGNILFPV  
LSEDCITTEEGNQPGNMLNCSQNSSSSVWLKSPAFSSGSSEGDSPWSYLNSSGSSWVS  
LPGKMRKEILEARTLQPDDEFKLLAGVRHDWLFQRLNTGVFKPSQLHRAHSALLKYSK  
KSELWTAQETIVYLGDYLTVKKKGRQRNAFWVHHLHQEEILGRYVGKDYKEQKGLWHHFT  
DVERQMTAQHYVTEFNKRLYEQNIPTQIFYIPSTILLILEDKTIKGCISVEPYILGEFVK  
LSNNTKVVKTEYKATEYGLAYGHFSYEFNSHRDVVVDLQGWVTGNGKGLIYLTDPQIHSV  
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>sp|Q96L96|ALPK3\_HUMAN Alpha-protein kinase 3 OS=Homo sapiens GN=ALPK3 PE=2 SV=2



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IVTGYPEPEVTWYKDDTELDRYCGLPKYEITHQGNRHTLQLYRCREEDAAIYQASQNSK  
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FCLSPPEVLSGFISREEGEVGEIEMTPMVFAKGLADSGCWGDKLFGRLVSEELRGGGYGC  
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>sp|P55789|ALR\_HUMAN FAD-linked sulfhydryl oxidase ALR OS=Homo sapiens GN=GFER PE=1 SV=2  
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VAEDASRRRPCRACVDFKTWMRTQQKRDTKFREDCPPDREELGRHSWAVLHTLAAYYDDL  
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>sp|Q96PN6|ADCYA\_HUMAN Adenylate cyclase type 10 OS=Homo sapiens GN=ADCY10 PE=1 SV=3  
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AMYMDRGAEQLVEILNYHISAIVEKVLIFGGDILKFAGDALLALWRVERKQLKNIITVVI  
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HALECAMDIFDFCSQVHKIQTVSIGVASGIVFCGIVGHTVRHEYTVIGQKVNLAARMMY  
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KEDYPLLGRNKEINYFMYTMKKFLISNSSQVLMYEGLPGYGKSQILMKIEYLAQGKNHRI  
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TTELLFEILPCWNMKMMIKTLATLVESNIFYCFRNGKELQKALKQNDPSFEVHYRSLSLK  
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CFNMGQIVLAKKMLRKALKLLNRIFPYNLISLFLHIHVEKNRHFHYVNRQAQESPPPGKK  
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VCLDILLYSGFVYRTFEECLEFIHQYENNRILKFHSGLLLGLYSSVAIWYARLQEWDFY  
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>sp|Q8N7X0|ADGB\_HUMAN Androglobin OS=Homo sapiens GN=ADGB PE=2 SV=3

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SKAIIKLANIDIHVADRRELGEFTVIHALTGWLPEVISLHPGYMDKVWELLKEILPEFKL  
SDEASSESKIAVLDSKLKEPGKEGKEKEIKDGKEVKDVKEFKPESSLTTLKAPEKSDKV  
PKEKADARDIGKKRSKDGEKEKFKFSLHGSRPSSEVQYSVQSLSDCSSAIQTSHMVVYAT  
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SLKPGSLVLKIHTYATKATVVRPLVGRHMLLFNAYSPVGHSIHICSMVSFVIGDEHVLP  
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LLRLMFKSKCKSLESYPCYQDEETKIAFADYTVTYQEPPNSWFIVFRETFLVHQDMILV  
PKVYTTLPICILHIVNNDTMEQVPKVQKVPYLYTKNKKGYTFVAEFTGDTYAASRW  
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VYVKKKAAQGIQKSPKGRAVSAIQDIGLPLVEEETTSTPTREDSSSTPLQNYKIIQCSV  
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TAARGVKPENSKNSAGSESKEMTQTGSGSAVWKKWQLTKGLRDVAKSTSSESGGVSSPGK  
EEREQSTRKENIQTPRTRSPITILETSPRLIRKALEFMDLSQYVRKTDTPLLQTDELNQ  
QQAMQKAEI HQFRQHRTRVLSIRNIDQEERLKLKDEVLD MYKEMQDSLDEARQKIFDIR  
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>sp|P07327|ADH1A\_HUMAN Alcohol dehydrogenase 1A OS=Homo sapiens GN=ADH1A PE=1 SV=2  
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PLPVILGHEAAGIVESVGEVTVTKPGDKVIPLAIPQCGKCRICKNPESNYCLKNDVSNP  
QGT LQDGTSRFTCRRKPIH HFLGISTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFSTG  
YGS AVNVAKVTPGSTCAVFLGGVGLSAIMGCKAAGAARI IAVDINKDKFAKAKELGATE  
CINPQDYKKPIQEV LKEMTDGGVDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPPDSQ  
NLSMNPMLLLTGR TWKGAILGGFKSKECVPKLVADFMAKKFSLDALITHVLPFEKINEGF  
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>sp|P28332|ADH6\_HUMAN Alcohol dehydrogenase 6 OS=Homo sapiens GN=ADH6 PE=1 SV=2  
MCTTGQVIRCKAAILWKPGAPFSIEEVEVAPPKAKEVRIKVVATGLCGTEMKVLGSKHLD  
LLYPTILGHEGAGIVESIGEGVSTVKPGDKVITLFLPQCCECTSCLNSEGNFCIQFKQSK  
TQLMSDGT SRFTCKGKSIYHFGNTSTFCEYTVIKEISVAKIDAVAPLEKVCLISCGFSTG  
FGAAINTAKVTPGSTCAVFLGGVGLSVVMGCKAAGAARIIGVDVNKEKFKAQELGATE  
CLNPQDLKKPIQEV LFDMTDAGIDFCFEAIGNLDVLAALASCNESYGCVVVGVLPA SV  
QLKISGQLFFSGRSLKGSVFGGWKSRQHIPKLVADYMAEKLNDPLITHLTNLDKINEAV  
ELMKTGKW

>sp|P40394|ADH7\_HUMAN Alcohol dehydrogenase class 4 mu/sigma chain OS=Homo sapiens GN=ADH7  
PE=1 SV=2  
MFAEIQIQDKDRMG TAGKVIKCKAAVLWEQKQPF SIEEIEVAPPKTKEVRIKILATGICR  
TDDHVIKGTMVSKFPVIVGHEATGIVESIGEGVTVTKPGDKVIPLFLPQCRECNACRNP  
GNLCIRSDITGRGLADGTTTRFTCKGKPVHHFMNTSTFTEYTVVDESSVAKIDDAAPPEK  
VCLIGCGFSTGYGA AVTKGVKPGSTCVVFLGGVGLSVIMGCKSAGASRIIGIDLNKDK  
FEKAMAVGATECISPKDSTKPISEVLSEMTGNNVGYTFEYIGHLET MIDALASCHMNYGT  
SVVVGVP PPSAKMLTYDPMLLFTGR TWKGCVFGLKSRDDVPKLVTEFLAKKFDLDQLITH  
VLPFKKISEGFELLNSGQSIRT VLT F

>sp|Q5T7M4|ADIPL\_HUMAN Adipolin OS=Homo sapiens GN=FAM132A PE=1 SV=2  
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SQASGPEFSDAHMTWLN FVRRPDDGALRKRCGRD KKP RDLFGPPGPPGAEVTAETLLHE  
FQELLKEATERRFSGLLDPLLPQGAGRLVGEAFHCRLQGPRRVDKRTLVELHGFQAPAA  
QGAFLRGSGLSLASGRFTAPVSGIFQFSASLHVDHSELQ GKARLRARDVVCVLICIESLC  
QRHTCLEAVSGLESNSRVFTLQVQGLLQLQAGQYASVFDNGSGAVLTIQAGSSFSGLLL  
GT

>sp|Q15848|ADIPO\_HUMAN Adiponectin OS=Homo sapiens GN=ADIPOQ PE=1 SV=1  
MLLLGAVLLLLALPGHDQETTTQGPVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG  
TPGEKGEKGDPLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE  
TYVTIPNMPIRFTKIFYNQNNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVS LFKKDK  
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HDTN

>sp|Q7Z4H4|ADM2\_HUMAN ADM2 OS=Homo sapiens GN=ADM2 PE=2 SV=1  
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>sp|Q96A54|ADRI\_HUMAN Adiponectin receptor protein 1 OS=Homo sapiens GN=ADIPOR1 PE=1 SV=1  
MSSHKGSVVAQNGAPASNREADTVELAELGPLLEEKGRVIANPPKAEEEQTCVPQEE  
EEEVRLTLPLQAHAMEKMEEFVYKVVWEGRWVIPYDVLDPWLKDNDYLLHGRPPMPS  
FRACFKSIFRIHTETGNIWTHLLGFVLFLLGILTMLRPNMYFMAPLQEKVVFGMFFLGA  
VLCLSFSLFHTVYCHSEKVSRTFSKLDYSGIALLIMGSFVPWLYSFYCSPQPRLIYLS  
IVCVLGISATIVAQWDRFATPKHRQTRAGVFLGLGLSGVVPTMHFTIAEGFVKATTVGQM  
GWFFLMAVMYITGAGLYAARIPERFFPGKFDIWFQSHQIFHVLVAAAFAVHFYGVSNLQE  
FRYGLEGGCTDDTLL

>sp|P22570|ADRO\_HUMAN NADPH:adrenodoxin oxidoreductase, mitochondrial OS=Homo sapiens  
GN=FDXR PE=1 SV=3

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ILGQGNVALDVARILLTPPEHLERTDITKAALGVLQRVKTIVWLVGRRGPLQVAFTIKE  
LREMIQLPGARPILDVPDFLGLQDKIKEVPRPRKRLTELLLRATEKPGPAEAAQASAS  
RAWGLRFFRSPQQVLPSPDGRRAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLSSI  
GYKSRVPDPSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVKGPTGVIATTMTDSFLTGM  
LLQDLKAGLLPSGPRPGYAAIQALLSSRGVRPVFSFSDWEKLDAAEVARGQGTGKPREKLV  
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>sp|P10109|ADX\_HUMAN Adrenodoxin, mitochondrial OS=Homo sapiens GN=FDX1 PE=1 SV=1  
MAAAGGARLLRAASAVLGGPAGRWLHHAGSRAGSSGLLRNRGPGGSAEASRSLSVSARAR  
SSSEDKITVHFINRDGETLTTKGKVGDSLDDVVENNLDIDGFGACEGTLACSTCHLIFE  
DHIYEKLDAITDEENDMLDLAYGLTDRSRLGCQICLTSMNMTVRVPETVADARQSIDV  
GKTS

>sp|Q96SZ5|AEDO\_HUMAN 2-aminoethanethiol dioxygenase OS=Homo sapiens GN=ADO PE=1 SV=2  
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LRAEDLNIAPRKATLQPLPPNLPVITYMHYETDGFSLGVFLKSGTSIPLHDHPGMHGM  
LKVLYGTVRISCMKLDAGGGQRPRALPPEQQFEPPLQPREREAVRPGVLRSAEYTEAS  
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LPREVWLETPQADDFWCEGEPYPGPKVFP

>sp|Q6UXC1|AEGP\_HUMAN Apical endosomal glycoprotein OS=Homo sapiens GN=MAMDC4 PE=2 SV=2  
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GAPFACDFEQPCGWRDISTSGYSWLDRAGAALEGPGPHSDHTLGTDLGWYMAVGTHRG  
KEASTAALRSPTLREAASSCKRLRWYHAASGDVAELRVELTHGAETLTWQSTGPGWPGW  
QELAVTTGRIRGDFRVTFSATRNATHRGAVALLDDLEFWDCGLPTPQANCPPGHHHCQNKV  
CVEPQQLCDGEDNCGDLSDENPLTCGRHIATDFETGLGPWNRSEGWSRNRHAGGPERPSW  
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QTLPGAPRAPVLLRRRREGELGTAWVRDVIDISAYPFQILLAGQTGPGGVVGLDDLILS  
DHCRPVSEVSTLQPLPPGPRAPAPQPLPPSSRLQDSCKQGHACGDLCPPEQLCDFEEQ  
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LLQDGPCPQPGSCDFESGLCGWSHLAWPGLGGYSWDWGGGATPSRYPQPPVDHTLGTGAG  
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AVWGAGGHRHQWLEAQVEVASAKEFQIVFEATLGGQPALGPALDDVEYLAGQHCQQA  
PSPGNTAAGSVPAVVGSAALLMLLVLLGLGGRRWLQKKGSCPFQSNTEATAPGFDNIL  
FNADGVTLPASVTSDF

>sp|Q8WTP8|AEN\_HUMAN Apoptosis-enhancing nuclease OS=Homo sapiens GN=AEN PE=1 SV=2

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GPRGRVSELARCSIVSYHGNVLYDKYIRPEMPIADYRTRWSGITRQHMRKAVPFQVAQKE  
ILKLLKGKVVVGHALHNDQALKYVHPRSQTRDTTYVPNFLSEPLHTRARVSLKDLALQ  
LLHKKIQVGQGHGSSVEDATTAMELYRLVEVQWEQEQEARSLWTCPEDREPDSSDMEQYM  
EDQYWPDDLHAGSRGGAREAQDRRN

>sp|P55198|AF17\_HUMAN Protein AF-17 OS=Homo sapiens GN=MLLT6 PE=1 SV=2

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YICEEQGRESKAASGACMTCNRHGCRAQAFHVTCAMAGLLCEEEVLEVDNVKYCGYCKYH  
FSKMKTSRHS SGGGGGAGGGGSGMGGGSGFISGRRSRASPSTQKEKHPHHERGQKK  
SRKDKERLKQKHKRPESPPSILTPPVPTADKVSSSSSSSSSHHEASTQETSESSRESKG  
KKSSSHSLSHKGGKLSGKGVSSFTSASSSSSSSSSSSGPFQPAVSSLQSSPDFSAFPK  
LEQPEEDKYSKPTAPAPSAPPSAPEPPKADLFEQKVVSFGFGPIMRFSTTTSSSGRAR  
APSPGDYKSPHVTGSGASAGTHKRPALSATPVPADETPETGLKEKKHKASKRSRHGPGR  
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LSLESPLLGAIGYTSNKDPIHSGGMLRAVCSTPLSSSLLGPPGTSALPRLSRSPFTSTL  
PSSSASISTTQVFSLAGSTFSLPSTHIFGTPMGAVNPLLSQAESSHTEPDLEDCSFRCRG  
TSPQESLSSMSPISSLPALFDQTASAPCGGQLDPAAPGTTNMEQLLEKQGDGEAGVNIV  
EMLKALHALQKENQRLQEQILSLTAKKERLQILNVQLSVPFPALPAALPAANGVPVGPYG  
LPPQAGSSDSLSTSKSPGKSSLGLDNSLSTSSDPHSGCPSRSSSSLSFHSPTPPLPLL  
QQSPATLPLALPGAPAPLPPQPQNGLGRAPGAAGLGAMPMAEGLLGGLAGSGGLPLNGLL  
GGLNGAAAPNPASLSQAGGAPTQLPGCLNSLTEQQRHLLQQQEQLQLQLQQLASPQLT  
PEHQTVVYQMIQIQKRELQRLQAGGSQPLMASLLAGSSTPLLSAGTPGLLPTASAPP  
LLPAGALVAPSLGNNTSLMAAAAAA AVAAAGPPVLTATNPFLSLSGAEGSGGPKGG  
TADKGASANQEK

>sp|Q13015|AF1Q\_HUMAN Protein AF1q OS=Homo sapiens GN=MLLT11 PE=1 SV=1

MRDPVSSQYSSFLFWRMPIPELDLSELEGLGLSDTATYKVKDSSVGKMIGQATAADQEK  
NPEGDGLLEYSTFNFWRAPIASIHSELDLL

>sp|Q8N556|AFAP1\_HUMAN Actin filament-associated protein 1 OS=Homo sapiens GN=AFAP1 PE=1 SV=2

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APPQMPLPEIPQWLPPDSGPPPLPTSSLPEGYYEEAVPLSPGKAPEYITSNYDSAMSS  
SYESYDEEEEDGKGGKTRHQWPSEEASMDLVKDAKICAFLLRKKRFGQWTKLLCVIKDTK  
LLCYKSSKDQQPMELPLQGCNITYIPKDSKKKKHELKITQQGTDPLVLAVQSKEQAEQW  
LKVIKEAYSGCSGPVDSECPPPPSSPVHKAEEKKLSSERPSSDGEGVVENGITTGNGKE  
QVKRKKSSKSEAKGTVSKVTGKKITKIISLGKKKPPSTDEQTSSAEEDVPTCGYLNVLNS  
RWRERWCRVKDNKLI FHKDRDLKTHIVSIPLRGCEVIPGLDSKHPLTFRLLRNGQEVAV  
LEASSSEDMGRWIGILLAETGSSTDEALHYDYIDVEMSASVIQTAKQTF CFMNR RVISA  
NPYLGGSNGYAHPSGTALHYDDVPCINGSLGKKPPVASNGVTGKGKTLSSQPKKADPA  
AVVKRTGSNAAQYKYGKNRVEADAKRLQTKEEELLKRKEALRNRLAQLRKERKDLRAAIE  
VNAGRKPQAILEEKLQLEECCRQKEAERVSELELETEVKESLKKALAGGVTLGLAIEPK  
SGTSSPQSPVFRHRTLENSPISSCDTSDTEGPVPVNSAAVLKKSQAAPGSSPCRGHVLRK  
AKEWELKNGT

>sp|P51826|AFF3\_HUMAN AF4/FMR2 family member 3 OS=Homo sapiens GN=AFF3 PE=1 SV=2

MDSFDLALLQEWDLSELCVYEPDRNALRRKERERRNQETQQDDGTFNSSYSLFSEPYKTN  
KGDELSNRIQNTLGNYDEMDFLTDRSNQSHLVGVKPGVPQTPVNKIDEHFVADSRAQN  
QPSSICSTTTSTPAAPVQVQSKRGTMGWQKAGHPPSDGQQRATQQGSLRLLGDGVGRQQ  
PRAKQVCNVEVLQTQERPPAMAAKHSSSGHCVQNFPPSLASKPSLVQQKPTAYVRPMDG  
QDQAPDESPKLKSSSETSVHCTSYRGVPASKPEPARAKAKLSKFSIPKQGEESRSGETNS  
CVEEIIREMTWLPPLSAIQAPGKVEPTKFPFPNKDSQLVSSGHNNPKKGAEPESPDST  
SNTSMLEDDLKLSDEEENEQAAQRTALRALSDSAVVQQPNCRTSVPSKGSSSSSSSG  
SSSSSSDSESSSGDSETESSSSSESGSKPPHFSSPEAEPASSNKWQLDKWLNKVNPHKP  
PILIQNESHGSESNQYNNPVKEDVQDCGKVPDVCQPSLREKEIKSTCKEEQRPTANKAP  
GSKGVKQKSPPAAVAVAVSAAAPPAVPCAPENAPAPARRSAGKKPTRRTERTSAGDGA  
NCHRPEEPAAADALGTSVVVPEPTKTRPCGNNRASHRKELRSSVTCEKRRTRGLSRIVP  
KSKEFIETESSSSSSSSSDLESEQEEYPLSKAQTVAAASSGNDQRLKEAAANGSGPR  
APVGSINARTTSDIAKELEEQFYTLVPFGRNELLSPLKDSDEIRSLWVKIDLTLLSRIPE  
HLPQEPGVLSAPATKDESAPPSHTSDTPAEKALPKSKRKRKCDNEDDYREIKKSQGEKD  
SSSRLATSTNTLSANHCNMNINSVAIPINKNEKMLRSPISPLSDASKHKYTSEDLTSSS  
RPNGNSLFTSASSSKPKADSQ LQPHGGDLTKAAHNNSENIPLHKS RPQTKPWSPGSNGH  
RDCKRQKL VFDDMPRSADYFMQEA KRMKHKADAMVEKFGKALNYAEALSFIECGNAMEQ  
GPMESKSPYTMSETVELIRYAMRLKTHSGPNATPEDKQLAALCYRCLALLYWRMFR LKR  
DHAVKYSKALIDYFNSSKAAQAPSPWGASGKSTGTPSPMSPNPSPASSVGSQGSLSNAS  
ALSPSTIVSIPQRIHQMAANHVSITNSILHSYDYWEMADNLAKENREFFNDL D LLMGPVT  
LHSSMEHLVQYSQQGLHWRNSAHL S

>sp|Q96P64|AGAP4\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
4 OS=Homo sapiens GN=AGAP4 PE=2 SV=2

MGNILTCRVHPSVSLEFDQQQGSVCPSESEIYEAGAGDRMAGAPMAAAVQPAEVTVEVGE  
DLHMHVDRDREPEALEFNPSANPEASTIFQRNSQTDVVEIRRSNCTNHVSTVRFSQQYS  
LCSTIFLDDSTAIQH YLTMTIISVTLEIPHHITQRDADRSL SIPDEQLHSFAVSTVHIMK  
KRNGGGS LN NYSSSIPSTPSTSQEDPQFSVPPTANTPTPVCKRSMRWSNLFTSEKGS D PD  
KERKAPENHADTIGSGRAIPIKQGM L LKRS GKW LKTWKKKYVTLCSNGVLTYYSSLGDYM  
KNIHKKEIDLQTSTIKVPGKWPSLATSACTPISTSKSNGLSKMDTGLGDSICFSPSISS  
TTSPKLNPPPSPHANKKKHLKKKSTNNFMIVSATGQ TWHFEATTYEERDAWVQAIQSQIL

ASLQSCCESSKSKSQLTSQSKAMALQSIQNMGRNAHCVCETQNPKWASLNLGVLMCIECS  
GIHRSGLGTRLSRVRSLLEDDWPVELRKVMSSIGNDLANSIWEGSSQGQTKPSEKSTREEK  
ERWIRSKYEELFLAPLPCTELSLGQQLLRATADEDLQTAILLLAHGSREEVNETCGEGD  
GCTALHLACRKGNNVLAQLLIWYGVDVMARDAHGNTALTYARQASSQECINVLLQYGCPD  
KCV

>sp|Q5VUJ5|AGAP7\_HUMAN Putative Arf-GAP with GTPase, ANK repeat and PH domain-containing  
protein 7 OS=Homo sapiens GN=AGAP7P PE=5 SV=1

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DLHMHVDRDREMPLEAFNPSANPEASTIFQRNSQTDVVEIRRSNCTNHVSTVHFSQQYS  
LCSTIFLDDSTAIQHLYTMTIISVTLEIPHHITQRDADRSL SIPDEQLHSFAVSTVHITK  
NRNGGSLNNYSSSIPSTPSTSQEDPQFSVPPTANTPTPVCKRSMRWSNLFTSEKGSDDP  
KERKAPENHADTIGSGRAIPIKQGMLLKRSKGWLKTWKKKYVTLCNGLVLTYYSSSLGDYM  
KYIHKKEIDLQTSTIKVPKGWPSLATLACTPISSSKSDGLSKMDTGLGDSICFSPSISS  
TTIPKLNPPPSPHANKKKHLKKSTNNFMIVSATGQTWHF EATTYEERDAWVQAIQSQIL  
ASLQSCCESSKSKSQLTSQSEAMALQSIQNMGRNAHCVCETQNPKWASLNLGVLMCIECS  
GIHRSGLGTRLSRVRSLLEDDWPVELRKVMSSIGNDLANSIWEGSSQGRTKPTEKSTREEK  
ERWIRSKYEELFLAPLPCTELSLGQQLLRATADEDLQTAILLLAHGSREEVNETCGEGD  
GCTALHLACRKGNNVLAQLLIWYGVDVMARDAHGNTALTYARQASSQECINVLLQYGCPD  
ECV

>sp|Q9HCK5|AGO4\_HUMAN Protein argonaute-4 OS=Homo sapiens GN=AGO4 PE=1 SV=2

MEALGPGPPASLFQPPRRPGLGTVGKPIRLLANHFQVQIPKIDVYHYDVIKPEKRPRRV  
NREVVDTMVRHFQMQIFGDRQPGYDGKRNMVTAHPLPIGRDRVDMVTLPGEGKDQTFKV  
SVQWVSVVSLLLEALAGHLNEVPDDSVQALDVI TRHLP SMRYTPVGRSFFSPPEGYYH  
PLGGGREVWFGFHQSVRPAMWNMMLNIDVSATAFYRAQPIIEFMCEVLDIQNEQTKPL  
TDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ  
YFKQKYSLLQKYPHLPCLQVGQEQQHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATAR  
SAPDRQEEISRLVKSNSMVGGPDYPYLKEFGIVVHNEMTEL TGRVLPAPMLQYGRNKTV  
TPNQGVWDMRGKQFYAGIEIKVWAVACFAPQKQCREDLKSFTDQLRKISKDAGMPIQGGQ  
PCFCKYAQGADSVEPMFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGD TLLGMATQCVQ  
VKNVKTSPQTLNLCLKINAKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKK  
PSIAAVVGSMDGHPSTRYCATVRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTR  
FKPTRIIYYRGGVSEGQMKQVAWPELIAIRKACISLEEDYRPGITYIVVQKRHHTRLFCA  
DKTERVGKSGNVPAGTTVDSTITHPSEFD FYLCSHAGIQGTSRPSHYQVLWDDNCFTADE  
LQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKDHSAEGSHVSGQSNGRD  
PQALAKAVQIHHD TQHTMYFA

>sp|Q9Y653|AGRG1\_HUMAN Adhesion G-protein coupled receptor G1 OS=Homo sapiens GN=ADGRG1  
PE=1 SV=2

MTPQSLLQTTLFLLSLLFLVQGAHGRGHREDFRFSQRNQTHRSSLHYKTPDLRISIEN  
SEEALTVHAPFPAAHPASRSFPDPRGLYHFCLYWNRHAGRLHLLYGKRD FLLSDKASSLL  
CFQHQEESLAQGPPLLATSVTSWWSPQNISLPSAASF TFSFHSPHTAAHNASVDMCELK  
RDLQLLSQFLKHPQKASRRPSAAPASQQLQSLESKLT SVRFMGDMVSFEEDRINATVWKL  
QPTAGLQDLHIHSRQEEEQSEIMEYSVLLPRTL FQRTKGRSGEAEKRLLLVDFSSQALFQ  
DKNSSQVLGEKVLGIVVQNTKVANLTPVVLT FQHQQLQPKNVTLCVFWVEDPTLSSPGH  
WSSAGCETVRRETQTSCFCNHLTYFAVLMVSSVEVD AVHKHYLSLLSYVGCVVSALACLV

TIAAYLCSRVP LPCRKRPRDYTIKVHNNLLAVFLDTSFLLSEPVALTGSEAGCRASAI  
FLHFSLLTCLSWMGLEGYNLYRLVVEVFGTYVPGYLLKLSAMGWGFIFLVT LVALVDVD  
NYGPIILAVHRTPEGVIYPSMCWIRDSLVS YITNLGLFSLVFLFNMAMLATMVVQILRLR  
PHTQKWSHVLTLGLSLVLGLPWALIFFSFASGT FQLVVLYLFSIITSFQGFLIFIWYWS  
MRLQARGGPSPLKSNSDSARLPISSGSTSSSRI

>sp|094910|AGRL1\_HUMAN Adhesion G protein-coupled receptor L1 OS=Homo sapiens GN=ADGRL1  
PE=1 SV=1

MARLA AVLWNL CVTAVLVTSATQGLSRAGLPFGLMRRELACEGYPIELRCPGSDVIMVEN  
ANYGR TDDKICDADPFQ MENVCYLPDAFKIMSQR CNRTQCVV VAGSDAFDPDPCPGTYK  
YLEVQYDCVPYKVEQKVFCVPGTLQKVLEPTSTHESEHQSGAWCKDPLQAGDRIYVMPWI  
PYRTDTL TEYASWEDYVAARHTT YRLPNRVDGTGFVVYDGAVFYNKERTRNIVKYDLRT  
RIKSGETVINTANYHDTSPYRWGKTDIDLAVDENGLWVIYATEGNNGRLVVSQ LNPYTL  
RFEGTWETGYDKRSASNAFMVCGVLYVLRSVYVDD DSEAAGNRVDYAFNTNANREEPVSL  
TFPNPYQFIS SVDYNPRDNQLYVWNNYFVVRYSLEFGPPDPSAGPATSPPLSTTTARPT  
PLTSTASPAATPLRRAPLTTHPVGAINQLGPDLP PATAPVPSTRPPAPNLHVSPELFC  
EPREVR RVQWPATQQGMLVERPCPKGTRG IASFQCLPALGLWNPRGPDLSNCTSPWVNQV  
AQKIKSGENAANIASELARHTRGSIYAGDVSSSVKLMEQLLDILDAQLQALRPIERESAG  
KNYNKMHKRERTCKDYIKAVVETVDNLLRPEALESWKDMNATEQVHTATMLLDVLEEGAF  
LLADNVREPARFLAAKENVVLEVTVLNTEGQVQELVFPQEEYPRKNSIQLSAKTIKQNSR  
NGVVKVVFILYNNLGLFLSTENATVKLAGEAGPGGPGGASLVVNSQVIAASINKESSRVF  
LMDPVIFTVAHLEDKNHFNANCSFWNYSERSMLGYWSTQG CRLVESNKTHTTCACSHLTN  
FAVLM AHREIYQGRINELLSVITWVGIVISLVCLAICISTFCFLRGLQTD RNTIHKNL  
INLFLAELLFLVGIDKTQYEIACPIFAGLLHYFFLA AFSWLCLEGVHLYLLLVEVFESEY  
SRTKYYYLGGYCFPALVVGIAAAIDYRSYGTEKACWLRVDNYFIWSFIGPVSFVIVNLV  
FLMVT LHKMIRSSSVLKPDSRLDNIKSWALGAIALLFLLGLTWAFGLLFINKESVVMAY  
LFTTFNAFQGVFIFVFHCA LQKKVHKEYSKLRHSYCCIRSPPGGTHGSLKTSAMRSNTR  
YYTGTQSRIRRMWNDTVRKQTESSFMAGDINSTPTLNRGTMGNHLLTNPVLQPRGGTSPY  
NTLIAESVGFNPSPPVFNSPGSYREPKHPLGGREACGMDTLPLNGFNNSYSLSRSGDFP  
PGDGGPEPPRGRNLADAAAF EKMIISELVHNNLRGSSSAAGPPPPEPPVPPVPGGGGEE  
EAGPGGADRAEIELLYKALEEPLLLPRAQSVLYQSDLDESESC TAEDGATSRPLSSPPG  
RDSLYASGANLRDSPSPDSSPEGPSEALPPPPAPPGPPEIYYTSRPPALVARNPLQGY  
YQVRRPSHEGYLAAPGLEGPDPGDGQMLVTSL

>sp|095490|AGRL2\_HUMAN Adhesion G protein-coupled receptor L2 OS=Homo sapiens GN=ADGRL2  
PE=1 SV=2

MVSSGCRMRLWFIIVISFLPNTEGFSRAALPFGLVRRELSCEGYSIDLRCPGSDVIMIE  
SANYGR TDDKICDADPFQMENTDCYLPDAFKIMTQR CNRTQCIVVTGSDVFPDPCPGTY  
KYLEVQYECVPYIFVFCVPGTLKAIVDSPCIYEAEQKAGAWCKDPLQAADKIYFMPWTPYRT  
DTLIEYASLEDFQNSRQTTTYKLPNRVDGTGFVVYDGAVFFNKERTRNIVKF DLRTRIKS  
GEAIINYANYHDTSPYRWGKTDIDLAVDENGLWVIYATEQNNGMIVISQLNPYTLRFEA  
TWETVYDKRAASNAFMICGVLYVVRSVYQDNESETGKNSIDYIYNTRLNRGEYVDVPFPN  
QYQYIAAVDYNPRDNQLYVWNNNFILRYSLEFGPPDPAQVPTTAVTITSSAELFKTIIST  
TSTTSQKQPMSTTVAGSQEGSKGTPPAVSTTKIPPI TNIFPLPERFCEALDSKGIKWP  
QTQRGM MVERPCPKGTRGTASYLCMISTGTWNP KGPDLNCTSHWVNQLAQKIRSGENAA  
SLANELAKHTKGPVFAGDVSSSVRLMEQLVDILDAQLQELKPSEKDSAGRSYNKLQKREK



TCRAYLKAIVDTVNDLLRPEALESWKHMNSSEQAHTATMLLDTEEGAFVLADNLEPTR  
VSMPTENIVLEVAVLSTEGQIQDFKFPLGIKAGSSIQLSANTVKQNSRNLAKLVFIY  
RSLGQFLSTENATIKLGADFIGRNSTIAVNSHVISVSINKESSRVYLTDPVLFTHLPHIDP  
DNYFNANCSFWNYSSERTMMGYSTQGCKLVDNKTTRTTCACSHLTNFAILMAHREIAYKD  
GVHELLLTVITWVGIVISLVCLAICIFTFCFRGLQSDRNTIHKNLCLNLFIAEFIFLIG  
IDTKYAIACPIFAGLLHFFFLAAFAWMCLEGVQLYMLLEVFESEYSRKKYYYVAGYLF  
PATVVGVSAAIDYKSYGTEKACWLHVDNYFIWSFIGPVTFIILLNIIFLVITLCKMVKHS  
NTLKPDSRLNIKSWVLGAFALLCLLGLTWSFGLLFINEETIVMAYLFTIFNAFQGVFI  
FIFHCALQKKVRKEYGKCFRHSYCCGGLPTESPHSSVKASTTRTSARYSSGTQSRIRRMW  
NDTVRKQSESSFISGDINSTSTLNQGMTGNYLLTNPLLRPHGTNNPYNTLLAETVVCNAP  
SAPVFNSPGHSLNNARDTSAMDTPLNGNFNNSYSLHKGDYNSVQVDCGLSLNDTAFE  
KMIISELVHNNLRGSSKTHNELTLPVKPVIIGSSSEDDAIVADASSLMHSDNPGLELHH  
KELEAPLIPQRTHSLLYQPQKKVKSEGTDSYVSQLTAEADHLQSPNRDSLYTSMPNLRD  
SPYPESSPDMEEDLSPSRSENEIYYKSMPLGAGHQLQMCYQISRGNSDGYIIPINKE  
GCIPEGDVREGQMQLVTSL

>sp|Q9BYV1|AGT2\_HUMAN Alanine--glyoxylate aminotransferase 2, mitochondrial OS=Homo sapiens GN=AGT2 PE=1 SV=1

MTLIWRHLLRPLCLVTSAPRILEMHPFLSLGTSRTSVTKLSLHTKPRMPPCDFMPERYQS  
LGYNRVLEIHKEHLSPVVTAYFQKPLLLHQGHMEWLFDAEGSRYLDFFSGIVTVSVGHCH  
PKVNAVAQKQLGRLWHTSTVFFHPPMHEYAEKLAALLPEPLKVI FLVNSGSEANELAMLM  
ARAHSNNDIISFRGAYHGCSPYTLGLTNVGTYKMEPLGGTGCPMCPDVFRGPWGGSH  
CRDSPVQTIRKSCAPDCCQAKDQYIEQFKDTLSTSVAKSIAGFFAEPIQGVNGVVQYPK  
GFLKEAFELVRAGGVCIADDEVQTGFGRLGSHFWGFQTHDVLDPDIVTMAKGIGNGFPMMA  
VITTPETIAKSLAKCLQHFNFTGGNPMACAIGSAVLEVIKEENLQENSQEVGTYMLLKFAK  
LRDEFEIVGDVRGKGLMIGIEMVQDKISCRPLPREEVNQIHEDCKHMGLLVGRGSIFSQT  
FRIAPSMCITKPEVDFAVEVFRSALTQHMERRAK

>sp|Q9BRQ8|AIFM2\_HUMAN Apoptosis-inducing factor 2 OS=Homo sapiens GN=AIFM2 PE=1 SV=1

MGSQSVESGALHVIVGGGFGGIAAASQLQALNVPFMLVDMKDSFHHNVAALRASVETG  
FAKKTIFISYSVTFKDNFRQGLVVGIDLNQMVLLQGGEALPFSHLILATGSTGPFPGKFN  
EVSSQQAIIQAYEDMVRQVQRSRFIVVVGGSAGVEMAAEIKTEYPEKEVTLIHSQVALA  
DKELLPSVRQEVKEILLRKGVLQLLSERVSNEELPLNEYREYIKVQTDKGTEVATNLVI  
LCTGIKINSSAYRKAFESRLASSGALRVNEHLQVEGHSNVYAIGDCADVTPK MAYLAGL  
HANIAVANIVNSVKQRPLQAYKPGALTFLLSMGRNDGVGQISGFYVGRMLMVRLTKSRDLF  
VSTSWKTMRQSP

>sp|Q9NQ31|AKIP1\_HUMAN A-kinase-interacting protein 1 OS=Homo sapiens GN=AKIP1 PE=1 SV=2

MDNCLAAAALNGVDRRLQRSARLALVLERAKRRAVDWHALERPKGCMGVLAREAPHLE  
KQPAAGPQRVLPGEREERPPTLSASFRTMAEFMDYTSSQCGKYYSSVPEEGGATHVYRYH  
RGESKLHMCLDIGNGQRKDRKKTSLGPGGSYQISEHAPEASQPAENISKDLYIEVYPGT  
SVTVGSNDLTKKTHVVAVDSGQSVDLVFPV

>sp|P30837|AL1B1\_HUMAN Aldehyde dehydrogenase X, mitochondrial OS=Homo sapiens GN=ALDH1B1 PE=1 SV=3

MLRFLAPRLSLQGRTRYSSAAALPSPILNPDIYNQLFINNEWQDAVSKKTFPTVNPT  
TGEVIGHVAEGDRADVDRVKAAREAFRLGSPWRRMDASERGLLNLLADLVERDRVYLA  
SLETLDNGKPFQESYALDLDEVIKVYRYFAGWADKWHGKTIPMDGQHFCFTRHEPVGVCG

QIIPWNFPLVMQGWLAPALATGNTVVMKVAEQTPLSALYLASLIKEAGFPPGVVNIITG  
YGPTAGAAIAQHVDVDKVAFTGSTEVGHLLIQAAGDSNLKRVLTLELGGKSPSIVLADADM  
EHAVEQCHEALFFNMGGCCAGSRTFVEESIYNEFLERTVEKAKQRKVGPNPFELDTQQGP  
QVDKEQFERVLGYIQLGQKEGAKLLCGGERFGERGFFIKPTVFGGVQDDMRIAKEEIFGP  
VQPLFKFKKIEEVRANNTYGLAAVFTRDLDKAMYFTQALQAGTVVWNTYNIVTCHT  
PFGGFKESGNGRELGEDGLKAYTEVKTVTIKVPQKNS

>sp|Q60I27|AL2CL\_HUMAN ALS2 C-terminal-like protein OS=Homo sapiens GN=ALS2CL PE=1 SV=1

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WEVTEESLHSLQERLRYPDSTGLESLLLLRGADRVLAHIEYIESYSCMVVQAFQKAAK  
RRSEYWRGQRKALRQLSGVSSEGSVGASLGQALHQLAHHVQYVLLLLSLGDTIGEHH  
PTRELVVNAVTLFGNLQSFMKQELDQAVATQALWHTLRGRLRDVLCTPAHRLQLDSQDVP  
VTVAPLRAERVLLFDDALVLLQGHNVHTFDLKLWVDPGQDGCTFHLLTPEEEFSFCAKD  
SQGQAVWQWKVTWAVHQALHGKKDFPVLGAGLEPSQPPDCRCAEYTFQAEGRLCQATYEG  
EWCGRPHGKGTLPDGRNVGNFCQGLEHGFIRLLPQASEDKFDCYKCHWREGSMCG  
YGICEYSTDEVYKGYFQEGLRHGFVLESGPQAPQPFYTGHWERGQRSGYGIEEDGDRG  
ERYIGMWQAGQRHGPVGMVTQAGVCYQGTQADKTVGPGILLSEDDSLYEGTFTRDLTLM  
GKGKVTFPNGFTLEGSFGSAGRGLHTQGVLDTAALPPDPSSTCKRQLGVGAFPVESRWQ  
GVYSPFRDFVCAGCPRLQEAALLGFDVQSSRELRRSQDYLSCERTHPEDSVGSMEDILEE  
LLQHREPKALQLYLRKALSNSLHPLGKLLRTLMLTFQATYAGVGANKHLQELAQEEVKQH  
AQELWAAAYRGLLRVALERKGGALEEDEDTETRDLQVHGLVPLMLPSFYSELFYLLH  
EREDSFYSQGIANLSLPDQTLLQFLDVQKHLWPLKDLTTSNQRYSLVRDKCFLSATEC  
LQKIMTTVDPREKLEVLERTYGEIEGTVSRVLGREYKLPMDLLPLLIYVVSARARIQHLG  
AEIHLIRDMMDPNHTGGLYDFLLTALESCYEHIQKEDMRLHRLPGHWHRSRELW

>sp|P15121|ALDR\_HUMAN Aldose reductase OS=Homo sapiens GN=AKR1B1 PE=1 SV=3

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EKLREQVVKREELFIVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLHWPTGFKPGK  
EFFPLDESGNVVPSDTNILDWAAMEELVDEGLVKAIGISNFNHLQVEMILNKPGLKYKP  
AVNQIECHPYLTQEKLQYQCSKGIVVTAYSPLGSPDRPWAKPEDPSLLEDPRIKAI  
HNKTTAQVLIRFPMQRNLVVIKSVTPERIAENFKVDFELSSQDMTLLSYNRNWRVCA  
LLSCTSHKDYPFHEEF

>sp|Q9NP73|ALG13\_HUMAN Putative bifunctional UDP-N-acetylglucosamine transferase and  
deubiquitinase ALG13 OS=Homo sapiens GN=ALG13 PE=1 SV=2

MKCVFVTVGTTSFDDLIACVSAPDSLQKIESLGYNRLILQIGRGTVVPEPFSTESFTLDV  
YRYKDSLKEDIQKADLVISHAGAGSLETLEKGPLVVVINEKLMNNHQLELAKQLHKEG  
HLFYCTCRVLTCPGQAKSIASAPGKCQDSAALTSTAFSGLDFGLSGYLHKQALVTATHP  
TCTLLFPSCHAFFPLPLTPTLYKMHKGWKNYCSQKSLNEASMDEYLGSLGLFRKLTAKDA  
SCLFRAISEQLFCSQVHHLEIRKACVSYMRENQQTFESYVEGSFEKYLERLGDPKESAGQ  
LEIRALSILIYNRDFILYRFPKPPTYVTDNGYEDKILLCYSSSGHYDSVYSKQFQSSAAV  
CQAVLYEILYKDFVVDDEELKTAIKLFRSGSKKNRNNAVTGSEDAHTDYKSSNQNMEE  
WGACYNAEINIEPGYNKGTEETKSPENPSKMPFPYKVLKALDPEIYRNVEFDVWLDNRKEL  
QKSDYMEYAGRQYYLGDKCQVCLESEGRYYNAHIQEVGNENNSVTVFIEELAETHVPLA  
NLKPVTVQMSVPAWNAMPSRKGRGYQKMPGGYVPEIVISEMDIKQKKMFKKIRGKEVYM  
TMAYGKGDPPLPRRLQHSMHYGHDPMPHYSQTAGNVMSNEHFHPQHPSPRQGRGYGMPRN  
SSRFINRHNMPGPKVDFYPPGPKRCCQSYDNFSYRSRSFRRSHRQMSCVNKESQYGFTPG

NGQMPRGLEETITFYEEVEEGDETAYPTLPNHGGPSTMVPATSGYCVGRRGHSSGKQTLNL  
EEGNGQSENGRYHEEYLRAEPDYETSGVYSTASTANLSLQDRKSCSMSPQDTVTSYNY  
PQKMMGNIAAVAASCANNVPAPVLSNGAAANQAISTTSVSSQNAIQPLFVSPPTHGRPVI  
ASPSYPCHSAIPHAGASLPPPPPPPPPPPPPPPPPPPPPPPPPPPPALDVGETSNLQPPPP  
LPPPPYSCDPSGSDLPQDTKVLQYYFNLGLQCYHSHYHSMVYVPQMQQQLHVENYPVYT  
EPPLVDQTVPCYSEVRREDGIQAEASANDTFPNADSSSVPHGAVYYPVMSDPYGQPPLP  
GFDSCLPVVPDYSCVPPWHPVGTAYGGSSQIHGAINPGPIGCIAPSPASHYVPQGM

>sp|Q9H553|ALG2\_HUMAN Alpha-1, 3/1, 6-mannosyltransferase ALG2 OS=Homo sapiens GN=ALG2 PE=1  
SV=1

MAEEQGRERDSVPKPSVFLHPDLGVGGAERLVLDAALALQARGCSVKIWTAHYDPGHCF  
AESRELPVRCAGDWLPRGLGWGGRGAAVCAYVRMVFLALYVFLADEEFDVVVCDQVSAC  
IPVFRLARRRKKILFYCHFDDLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFT  
AAVFKETFKSLSHIDPDVLYPSLNVTSFDSVPEKLDLVPKGKKFLLLSINRYERKKNL  
TLALEALVQLRGLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTF  
RSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMCPVIAVNSGGPLESIDHSVTGF  
LCEPDVPHFSEAIEKFIREPSLKATMGLAGRARVKEKFSPEAFTEQLYRYVTKLLV

>sp|Q4L235|ACSF4\_HUMAN Acyl-CoA synthetase family member 4 OS=Homo sapiens GN=AASDH PE=1  
SV=3

MTLQELVHKAASCYMDRVAVCFDECNQLPVYYTYKTVVNAASELSNFKLLHCDQFGIRE  
IGLYCQPGIDLPISWILGILQVPAAYVPIEPDSPPSLSTHFMKKCNLKYILVEKKQINKFK  
SFHETLLNYDTFTVEHNDLVFRLHWKNTENVLMNDGKEKYKEKIKSISSEHVNEEKA  
EEHMDLRLKHCLAYVLHTSGTTGIPKIVRVPHKCIVPNIQHFRVLFDTQEDVLFLASPL  
TFDPSVVEIFLALSSGASLLIVPTSVKLLPSKLASVLFSHHRVTVLQATPTLLRRFGSQL  
IKSTVLSATTSLRVLALGGEAFPSLTVLRSWRGEKNKTQIFNVYGITEVSSWATIYRIPE  
KTLNSTLKCELPVQLGFPLLGTVVEVRDNGFTIQEGSGQVFLGGRNRVCFLDDEVTVPL  
GTMRATGDFVTVKDGEIFFLGRKDSQIKRHGKRLNIELVQVVAEELQQVESC AVTWYNQE  
KLILFMVSKDASVKEYIFKELQKYLPSHAVPDELVLIDSLPFTSHGKIDVSELNKIYLN  
INLKSENKLSGKEDLWEKLQYLWKSTLNLPEDLRVPDESFLNSSGDSLKSIRLLSEIE  
KLVGTSVPGLEIILSSSILEIYNHILQTVVPDEDVTFRKSCATKRKLS DINQEEASGTS  
LHQKAIMTFTCHNEINAFVVL SRGSQILSLNSTRFLTKLGHCSACPSDSVSQTNIQNLK  
GLNSPVLIGKSKDPSCVAKVSEEGKPAIGTQKMELHVRWRSDTGKCV DASPLVVIPTFDK  
SSTTVYIGSHSRMKAVDFYSGVKWEQILGDRIESSACVSKCGNFIVVGCYNGLVYVLK  
SNSGEKYWMFTTEDAVKSSATMDPTTGLIYIGSHDQHAYALDIYRKKCVWKSCKGGTVFS  
SPCLNLIPHHLIFATLGGLLAVNPATGNVIWKHSCGKPLFSSPQCCSQYICIGCVDGNL  
LCFTHFGEQVWFSTSGPIFSSPCTSPSEQIFFGSHDCFYCCNMKGHLQWKFETTSRV  
YATPFAFHNYNGSNEMLLAAASTDGKVVILESGGQLQSVYELPGEVFSSPVLLEMLII  
GCRDNYVYCLDLLGGNQK

>sp|Q01718|ACTHR\_HUMAN Adrenocorticotrophic hormone receptor OS=Homo sapiens GN=MC2R PE=1  
SV=1

MKHIINSYENINNTARNNSDCPRVLP EEIFFTISIVGVLENLIVLLAVFKNKNLQAPMY  
FFICSLAISDMLGSYKILENIIILRNMGYLKPRGSFETTADDIIDLFLVLSLLGSIFS  
LSVIAADRYITIFHALRYHSIVTMRRTVVVLTVIWTCTGTGTMVIFSHHVPTVITFTS  
LFPLMLVFILCLYVHMFLLARSHTRKISTLPRANMKGAITLTILLGVIFCWPAPFVLHVL  
LMTFCPSNPYCACYMSLQVNGMLIMCNAVDPFIYAFRSPELRDAFKKMIFCSRYW

>sp|Q8TC94|ACTL9\_HUMAN Actin-like protein 9 OS=Homo sapiens GN=ACTL9 PE=1 SV=3

MDASRPKSSESQSSLEAPRPGPNPSPNVVNKPLQRDFPGMVADRLPPKTGVVVIDMGTT  
CKVGFAGQASPTYTVATILGCQPKPATSGQSGLQTFIGEAAVLPELTLVQPLRSGIVV  
DWDAAEIWRHLLHDLRVATHDPLLFSDPPFSPATNREKLVEVAFESLRSPAMYVASQ  
SVLSVYAHGRVSGLVVDTHGVTYTVPVFQGYNLLHATERLDLAGNHLTAFLAEMLLQAG  
LPLGQQDLDLVENIKHHYCYVASDFQKEQARPEQEYKRTLKLPDGRVTTLGKELFQCPEL  
LFNPPEVPGLSPVGLSTMAKQSLRKLSEMRADLAQNVLLCGGSSLFTGFEGRFRAELLR  
ALPAETHVVVAAQPTRNFSVWIGGSILASLRAFQSCWVLRQYEEQGPYIVYRKCY

>sp|Q8TDY3|ACTT2\_HUMAN Actin-related protein T2 OS=Homo sapiens GN=ACTRT2 PE=2 SV=2

MFNPHALDSPAVIFDNGSGFCKAGLSGEFGPRHVMSSIVGHLKFQAPSAEANQKKYFVGE  
EALYKQEALQLHSPFERGLITGWDDVERLWKHLFEWELGVKPSDQPLLATEPSLNPRENR  
EKMAEVMFENFGVPAFYLSDAQVLALYASACVTGLVVDSDGAVTCTVPIFEGYSLPHAVT  
KLHVAGRDITELMQLLLASGHTFPCQLDKGLVDDIKKLCYVALEPEKELSRPPEEVL  
EYKLPDGNIIISLGDPLHQAPEALFVPQQLGSQSPGLSNMVSSITKCDTDIQLFGEIV  
LSGGTTLFHGLDDRLLKELEQLASKDTPIKITAPPDRWFSTWIGASIVTSLSSFQMWVT  
AADFKEFGTSVVQRRCF

>sp|Q8NER5|ACV1C\_HUMAN Activin receptor type-1C OS=Homo sapiens GN=ACVR1C PE=1 SV=1

MTRALCSALRQALLLLAAAAELSPGLKCVLLCDSSNFTCQTEGACWASVMLTNGKEQVI  
KSCVSLPELNAQVFCSSNNVTKECCFTDFCNITLHLPTASPNAPKLGPMEIAIIITV  
PVCLLSIAAMLTWVACQGRQCSYRKKKRPNVEEPLSECNLVNAGTKLDLIYDVTASGSG  
SGLPLLVRTIARTIVLQEIVGKGRFGEVWHGRWGEDVAVKIFSSRDERSWFREAEIYQ  
TVMLRHENILGFIAADNKDNGTWTQLWLVSHEYHEQGSLYDYLNRNIVTVAGMIKLALSIA  
SGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCETCAIADLGLAVKHDSILNTIDIPQN  
PKVGTKRYMAPEMLDDTMNVNIFESFKRADIYSVGLVYWEIARRCSVGGIVEEYQLPYD  
MVPSDPSIEEMRKVVCQKFRPSIPNQWQSCEALRVMGRIMRECWYANGAARLTALRIKK  
TISQLCVKEDCKA

>sp|Q04771|ACVR1\_HUMAN Activin receptor type-1 OS=Homo sapiens GN=ACVR1 PE=1 SV=1

MVDGVMILPVLIMIALPSPSMEDEKPKVNPCLYMCVCEGLSCGNEDHCEGQCFSSLSIN  
DGFHVYQKGCQVYEQGKMTCTPPSPGQAVECCQGDWCNRNITAQLPTKGKSFPGTQNF  
HLEVGLIILSVVFAVCLLACLLGVALRKFKRRNQERLNPRDVEYGTIEGLITTNVGDSTL  
ADLLDHSCTSAGSGSLPFLVQRTVARQITLLEC VGKGRYGEVWRGSWQGENVAVKIFSSR  
DEKSWFRETELNTVMLRHENILGFIASDMTSRHSSTQLWLITHYHEMGSLYDYLQLTTL  
DTVSLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNILVKKNGQCCIADLGLAVM  
HSQSTNQLDVGNPNRVGTRKYMAPEVLDETIQVDCFDSYKRVDIWAFLVLWEVARRMVS  
NGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQRPNIPNRWFSPTLTSLAKLMKECWYQ  
NPSARLTALRIKKTTLTKIDNSLDKLTDC

>sp|P35348|ADA1A\_HUMAN Alpha-1A adrenergic receptor OS=Homo sapiens GN=ADRA1A PE=1 SV=2

MVFLSGNASDSSNCTQPPAPVNIKAILLGVLGGLILFGVLGNILVILSVACHRHLSV  
THYYIVNLAVADLLLSTVLPFSAIFEVLGYWAFGRVFCNIWAAVDVLCCTASIMGLCII  
SIDRYIGVSYPLRYPTIVTQRRGLMALLCVWALSIVISIGPLFGWRQPAPEDETCQINE  
EPGYVLFSAFGSYLPLAIIILVMYCRVYVAKRESRGLKSGLKTDKSDSEQVTLRIRKRN  
APAGGSGMASAKTKHFSVRLKFSREKKAATLGIVVGCFVLCWLPFFLVMPIGSFFPD  
FKPSETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAQNVLRITQCLCRKQSSKHALGYTL  
HPPSQAVEGQHKDMVRIPVGSRETFYRISKTDGVCEWKFSSMPRGSARITVSKDQSSCT

TARVRSKSFLQVCCCVGPSTPSLDKNHQVPTIKVHTISLSENGEEV

>sp|P35368|ADA1B\_HUMAN Alpha-1B adrenergic receptor OS=Homo sapiens GN=ADRA1B PE=1 SV=3

MNPDLDTGHNTSAPAHWGELKNANFTGPNQTSSNSTLPQLDITRAISVGLVLGAFILFAI  
VGNILVILSVACNRHLRPTNYFIVNLAMADLLSFTVLPFSAALEVLGYWVLGRIFCDI  
WAAVDVLCCTASILSLCAISIDRYIGVRYSLQYPTLVTRRKAILALLSVWVLSTVISIGP  
LLGWKEPAPNDCKEKGVTTEPFYALFSSLSFYIPLAVILVMYCRVYIVAKRTTKNLEAG  
VMKEMSNSKELTLRIHSKNFHEDTLSSTKAKGHNPRSSIIVKLFKFSREKKAATLGIVV  
GMFILCWLPPFFIALPLGSLFSTLKPPDAVFKVFWLGYFNSCLNPIIYPCSSKEFKRAV  
RILGCQCRGRGRRRRRRRRRLGGCAYTYRPWTRGGSLEERSQSRKDSLDDSGSCLSGSQRT  
LPSASPSPGYLGRGAPPPVELCAFEWKAPGALLSLPAPEPPGRRGRHDSGPLFTFKLLT  
EPESPGTDGGASNGGCEAAADVANGQPGFKSNMPLAPGQF

>sp|Q9POK1|ADA22\_HUMAN Disintegrin and metalloproteinase domain-containing protein 22  
OS=Homo sapiens GN=ADAM22 PE=1 SV=1

MQAAVAVSVFLLLCVLGTCPPARCGQAGDASLMELEKRKENRFVERQSIVPLRLIYRSG  
GEDESRHDALDTRVRGDLGGPQLTHVDQASFQVDAFGTSFILDVVLNHDLSSEYIERHI  
EHGGKTVEVKGGEHCYYQGHIRGNPDSFVALSTCHGLHGMFYDGNHTYLIPEENDTTQE  
DFHFHSVYKSRLFEFSLDDLPEFQQVNITPSKFIKPRPKRSKRQLRRYPRNVEEETKY  
IELMIVNDHLMFKKHRLSVVHTNTYAKSVVNMAADLIYKDQLKTRIVLVAMETWATDNKFA  
ISENPLITLREFMKYRRDFIKEKSDAVHLFSGSQFESSRSGAAYIGGICSLKGGGVNEF  
GKTDLMAVTLAQLAHNIGIISDKRKLASGECKCEDTWSGCIMGDTGYLPPKFTQCNI  
EYHDFLNSGGGACLFNKPSKLLDPPECGNGFIETGEECDGTPAECVLEGAECCKKCTLT  
QDSQCSDDLCKCKCFQPMGTVCREAVNDCDIRETCSGNSSQCAPNIHKMDGYSCDGVQG  
ICFGRCKTRDRQCKYIWGQKVTAASDKYCYEKLNIETGKNGCGKDKDTWIIQCNKRDVLC  
GYLLCTNIGNIPRLGELDGEITSTLVVQQGRTLNCSSGGHVKLEEDVDLGYVEDGTPCGPQ  
MMCLEHRLCPVASFNFSTCLSSKEGTICSGNGVCSNELKVCNHRHWIGSDCNTYFPHND  
AKTGITLSGNGVAGTNIIIGIIAGTILVLALILGITAWGYKNYRQRQLPQGDYVKKPGD  
GDSFYSDIPPGVSTNSASSSKRSNGLSHWSERIPDTKHISDICENGRPRSNSWQGNLG  
GNKKKIRGKRFRPRSNTETLSPAKSPSSSTGSIASSRKYPYPMPLPDEDKKNRQ SAR  
LWETSI

>sp|Q9UKQ2|ADA28\_HUMAN Disintegrin and metalloproteinase domain-containing protein 28  
OS=Homo sapiens GN=ADAM28 PE=2 SV=3

MLQGLLPVSLLLSVAVSAIKELPGVKKYEVVYPIRLHPLHKREAKEPEQQEQFETELKYK  
MTINGKIAVLYLKKNKNLLAPGYTETYNSTGKEITTSPQIMDDCYQGHILNEKVS  
DASISTCRGLRGYFSQGDQRYFIEPLSPIHRDQGEHALFKYNPDEKNYDSTCGMDGVLWAHDL  
QQNIALPATKLVLKDKRVQEHEKYIEYYLVLDNGEFKRYNENQDEIRKRVFEMANYVNM  
LYKKLNTHVALVGMEIWTDDKIKITPNASFLENFSKWRSVLSRRKRHDIAQLITATE  
LAGTTVGLAFMSTMCSPYSVGVDHSDNLLRVAGTMAHEMGHNFGMFHDDYSCKCPSTI  
CVMDKALSFYIPTDFSSCSRLSYDKFFEDKLSNCLFNAPLPTDIIISTPICGNQLVEMGED  
CDCGTSEECTNICDAKTCKIKATFQCALGECCEKCQFKKAGMVCRAKDECDLPEMCNG  
KSGNCPDDRQVNGFPCHHGKGHCLMGTCTLQEQTTELWGPGEVADKSCYNRNEGGSK  
YGYCRRVDDTLIPCKANDTMCGLFCQGGSDNLPWKGRIVTFLTCKTFDPEDTSQEIGMV  
ANGTKCGDNKVCINAECVDIEKAYKSTNCSKCKGHAVCDHELQCQCEGWIPDCDDSS  
VVFHFSIVVGVLFPMAVIFVVVAMVIRHQSSREKQKKDQRPLSTTGTRPHKQKRKPQMVK  
AVQPQEMSQMKPHVYDLPVEGNEPPASFHKDTNALPPTVFKDNPVSTPKDSNPKA

>sp|Q8TC27|ADA32\_HUMAN Disintegrin and metalloproteinase domain-containing protein 32 OS=Homo sapiens GN=ADAM32 PE=1 SV=2

MFRLWLLLAGLCGLASRPGFQNSLLQIVIEPKIQNTNTDSSEIEYEQISYIIPIDEKLY  
TVHLKQRYFLADNFMILYNQGSMTYSSDIQTQCYQGNIEGYPDSMVTLCSTCSGLRGI  
LQFENVSYGIEPLESAVEFQHVLYKLNEDNDIAIFIDRSLKEQPMDDNIFISEKSEPAV  
PDLFPLYLEMHIVDKTLYDYWGSDSMIVTNKVIEIVGLANSMTQFKVTIVLSSLELWS  
DENKISTVGEADELLQKFLQKSYLNLRPDIAIYLLIYMDYPRYLGAFFPGTMCITRYS  
AGVALYPKEITLEAFVIVTQMLALSLGISYDDPKKCQCSESTCIMNPEVVQSNQVKTFS  
SCSLRSFQNFISNVGVKCLQNKPMQKKSPPKPCVGNRLEGNEICDCGTEAQCGPASCCD  
FRTCVLKDGAICYKGLCKDCQILQSGVECRPKAHPECDIAENCNGTSPECQPDITLING  
LSCKNNKFCYDGDCHDLARCESVFGKGSRNAPFACYEEIQSQSDRFGNCGDRNNKYV  
FCGWRNLICGRLVCTYPTKPFHQENGDIYAFVRDSVCITVDYKLPRTVPDPLAVKNGS  
QCDIGRVCVNRECVESRIIKASAHVCSQQCSGHGVCDNRNKHCHCSPGYKPPNCQIRSKGF  
SIFPEEDMGSIMERASGKTENTWLLGFLIALPILIVTTAIVLARKQLKKWFAKEEEFPSS  
ESKSEGSTQTYASQSSSEGSTQTYASQTRSESSQADTSKSKSEDSAEAYTSRKSQDST  
QTQSSSN

>sp|O00116|ADAS\_HUMAN Alkyldihydroxyacetonephosphate synthase, peroxisomal OS=Homo sapiens GN=AGPS PE=1 SV=1

MAEAAAAAGGTGLGAGASYGSAADRRDPDPDRAGRRLRVLSGHLLGRPREALSTNECKA  
RRAASAATAAPTATPAAQESGTIPKKRQEVMMKNGWGYNDSKFIENKKQIELTGKRYPL  
SGMGLPTFKEWIQTNLGVNVEHKTTSKASLNPSDTPPSVNVNEDFLHDLKETNISYSQEAD  
DRVFRAHGHCLHEIFLLREGMFERIPDIVLWPTCHDDVVKIVNLACKYNLCIPIGGGTS  
VSYGLMCPADETRTIIISLDTSQMNRILWVDENNLTAHVEAGITGQELERQLKESGYCTGH  
EPDSLEFSTVGGWVSTRASGMKKNIYGNIEDLVVHIKMTVPRGIIKSCQGPRMSTGPD  
HHFIMGSEGLGVITEATIKIRPVPEYQKYGSVAFPNFEQGVACLREIAKQRCAPASIRL  
MDNKQFQFGHALKPQVSSIFTSFLDGLKKFYITKFKGFDPNQLSVATLLFEGDREKVLQH  
EKQVYDIAAKFGGLAAGEDNGQRGYLLTYVIAIYIRDLALEYYVLGESFETSAPWDRVVDL  
CRNVKERITRECKEKGVPFAPFSTCRVTQTYDAGACIYFYFAFNRYGISDPLTVFEQTEA  
AAREEILANGSLSHHHGVGLRKQWLKESISDVGFGLKSVKEYVDPNNIFGNRNL

>sp|Q9BUB4|ADAT1\_HUMAN tRNA-specific adenosine deaminase 1 OS=Homo sapiens GN=ADAT1 PE=1 SV=1

MWTADEIAQLCYEHYGIKPKKGKPEPNHEWTLLAAVVKIQSPADKACDTPDKPVQVTK  
VVSMTGTGTCIGQSKMRKNGDILNDSHAEVIARRSFQRYLLHQLQLAATLKEDSIFVPGT  
QKGVWKLRRDLIFVFFSSHTPCGDASIIIPMLEFEDQCCPVFRNWAHNSVEASSNLEAP  
GNERKCEDPDSPVTKMRLEPGTAAREVTNGAAHHQSFQKQSGPISPGIHSCDLTVEGL  
ATVTRIAPGSAKVIDVYRTGAKCVPGEAGDSGKPGAAFHQVGLLRVKPGRGDRTRSMSCS  
DKMARWNVLCGQALLMHLLEPIYLSAVVIGKCPYSQEQAMQALIGRCQNVSALEPKGFG  
VQELKILQSDLLFEQSRSAVQAKRADSPGRLVPCGAISWSAVPEQPLDVTANGFPQGT  
KKTIGSLQARSQISKVELFRSFQKLSRIARDKWPHSLRVQKLDITYEYKEAASSYQEA  
WSTLRKQVFGSWIRNPPDYHQFK

>sp|Q3MIX3|ADCK5\_HUMAN Uncharacterized aarF domain-containing protein kinase 5 OS=Homo sapiens GN=ADCK5 PE=1 SV=2

MWRPVQLCHFHSALLHRRQKPWPSPAVFFRRNVRGLPPRFSSPTPLWRKVLSTAVVGAPL  
LLGARYVMAEAREKRRMRLVVDGMGRFGRSLKVGLQISLDYWWCTNVVLRGVEENSPGYL

EVMSACHQRAADALVAGAI SNGGLYVKLGQGLCSFNHLLPPEYTRTLRVLEDRALKRGFQ  
EVDELFLFEDFQALPHELFQEFDYQPIAAASLAQVHRAKLHDGTSVAVKVQYIDLRDRFDG  
DIHTLELLRLVEVMHPSFGFSWVLQDLKGTLAQELDFENEGRNAERCARELAHFPYVVV  
PRVHWDKSSKRVLTADFCAGCKVNDVEAIRSQGLAVHDIAEKLKAFAEQIFYTGFIHSD  
PHPGNVLVRKGPDGKAELVLLDHGLYQFLEEKDRAALCQLWRAIILRDDAAMRAHAAALG  
VQDYLLFAEMLMQRPVRLGQLWGSLLSREEAAYMVMARERFEAVMAVLRELPRPMLLV  
LRNINTVRAINVALGAPVDYRFLMAKRAVRGWSRLAGATYRGVYGTSLLRHAKVVWEMLK  
FEVALRLETAMRLTALLARALVHLSLVPPAEELYQYLET

>sp|Q6P093|ADCL2\_HUMAN Arylacetamide deacetylase-like 2 OS=Homo sapiens GN=AADACL2 PE=2  
SV=3

MGLKALCLGLLCVLFVSHFYTPMPDNIEESWKIMALDAIAKTCTFTAMCFENMRIMRYEE  
FISMIFRLDYTQPLSDEYITVTDTTFVDIPVRLYLPKRKSETRRRRAVIYFHGGGFCFGSS  
KQRAFDFLNRWTANTLDAVVVGVDYRLAPQHHPAQFEDGLAAVKFFLLEKILTKYGVDP  
TRICIAGDSSGGNLATAVTQQVQNDAEIKHKIKMQVLLYPGLQITDSYLP SHRENEHGIV  
LTRDVAIKLVSLYFTKDEALPWAMRRNQHMPLESRHLFKFVNWSILLPEKYRKDYVYTEP  
ILGGLSYSLPGLTDSRALPLLANDSQLQNLPLTYILTCQHDLRRDDGLMYVTRLRNVGVQ  
VVHEHIEDGIHGALSFMTPSPFYLRGLRIRDMYVSWLDKNL

>sp|Q08828|ADCY1\_HUMAN Adenylate cyclase type 1 OS=Homo sapiens GN=ADCY1 PE=1 SV=2

MAGAPRGGGGGGGGAGEPGGAERAAGTSRRRGLRACDEEFACPELEALFRGYTLRLEQAA  
TLKALAVLSLLAGALALAE LLGAPGPAPGLAKGSHPVHCVLFLALLVVTNVRSLQVPQLQ  
QVGQLALLFSLTFALLCCPFALGGPARGSAGAAGGPATAEQGVWQLLLVTFVSYALLPVR  
SLLAIGFGLVVAASHLLVTATLVPKRPRWLRTLGANALLFVGVMYGVFVRILTERTSQR  
KAFLQARSCIEDRLLEDENEKQERLLMSLLPRNVAMEMKEDFLKPPERIFHKIYIQRHD  
NVSILFADIVGFTGLASQCTAQELVKLLNELFGKFDELATENHCRIKILGDCYICVSGL  
TQPKTDHAHCCVEMGLDMIDTITSVAEATEVDLNMVGLHTGRVLCGVLGLRKWQYDVWS  
NDVTLANVMEAAGLPKGVHITKTTLACLNGDYEVEPGYGHENSFLKTHNIETFFIVPSH  
RRKIFPGLILSDIKPAKRMKFKTVCYLLVQLMHCCKMFKAEPFSNVMTCEDDDKRRALR  
TASEKLRNRSSFSTNVVYTPGTRVNRYSRLLEARQTELEADLNFFTLKYKHVEREQK  
YHQLQDEYFTSAVVLTLILAALFGLVYLLIFPQSVVVLVLLVFCICFLVACVLYLHITRV  
QCFPGCLTIQIRTVLCIFIVVLIYSVAQGCVVGCLPWAWSKPNSSLVVLSSGGQRTALP  
TLPCESTHHALLCCLVGTLP LAIFFRVSSLPKMILLSGLTTSYILVLELSGYTRTGGGAV  
SGRSYEP IVAILLFSCALALHARQVDIRLRDYLWAAQAEEREDMEKVKLDNRRILFNL  
LPAHVAQHFLMSNPRNMDLYYQSYSQVGMFASIPNFNDFYIELDGNMGECLRLNEI  
IADFDELMEKDFYKDIKIKTIGSTYMAAVGLAPTSGTKAKKSISSHLSTLADFAIEMFD  
VLDEINYQSYNDFVLRVGINVGPVVAGVIGARRPQYDIWGNTVNVASRMDSTGVQGRIQV  
TEEVHRLRLRCPYHFVCRGKVSVKGKGEMLT YFLEGRTDNGSQIRSLGLDRKMCPFGRA  
GLQGRPPVPCMPGVSVRAGLPPHSPGQYLPSAAAGKEA

>sp|O60266|ADCY3\_HUMAN Adenylate cyclase type 3 OS=Homo sapiens GN=ADCY3 PE=1 SV=3

MPRNQGFSEPEYSAEYSAEYSVSLPSDPDRGVGRTHEISVRNSGSCLC LPRFMRLTFVPE  
SLENLYQTYFKRQRHETLLVLVFAALFDCYVVVMCAVVFSSDKLASLAVAGIGLVLDII  
LFVLCKKGLLPDRVTRRVLPYVLWLLITAQIFS YLGLNFARAHAASDTVGWQVFFVFSFF  
ITLPLSLSPIVIISSVSCVHTLVLGVTVAQQQEEELKGMQLLREILANVFLYLCAI AVG  
IMSYYMADRKHRAFL EARQSLEVKMNLEEQSQQENMLSLPKHVADEMLKDMKKDES  
QKDQQQNTMYMYRHENVSILFADIVGFTQLSSACSAQELVKLLNELFARFDKLA AKYHQ

LRIKILGDCYYCICGLPDYREDHAVCSILMGLAMVEAISYVREKTKTGVDMRVGVHTGTV  
LGGVLGQKRWQYDVWSTDVTVANKMEAGGIPGRVHISQSTMDCLKGEFDVEPGDGGSRCD  
YLEEKGIETYLI IASKPEVKKTATQNGLNGSALPNGAPASSKSSSPAL IETKEPNGSAHS  
SGSTSEKPEEQDAQADNPSPFPNRRRLRLQDLADRVVDASEDEHELNQLLNEALLERESA  
QVVKKRNTFLLSMRFMDPEMETRYSVEKEKQSGAAFSCSCVLLCTALVEILIDPWLMTN  
YVTFMVGEILLILITICSLAAIFPRAFPKKLVAFSTWIDRTRWARNTWAMLAIFILVMAN  
VVDMLSCLQYYTGPSNATAGMETEGSCLENPKYYNYVAVLSLIATIMLVQVSHMVKLTLM  
LLVAGAVATINLYAWRPVFDEYDHKRFREHDLPMVALEQMGGFNPLNGTDRLPLVPSKY  
SMTVMVFLMMLSFYYFSRHVEKLARTLFLWKIEVHDQKERVYEMRRWNEALVTNMLPEHV  
ARHFLGSKKRDEELYSQTYDEIGVMFASLPNFADFYTEESINNGGIECLRFLNEIISDFD  
SLLDNPKFRVITIKITIGSTYMAASGVTPDVNTNGFASSNKEDKSERERWQHLADLADFA  
LAMKDTLTNNQSFNNFMLRIGMNKGGVLGAVIGARKPHYDIWGNTVNVASRMESTGVM  
GNIQVVEETQVILREYGFRFVRRGPIFVKGKGELLTFFLKGRDKLATFPNGPSVTLP HQV  
VDNS

>sp|095622|ADCY5\_HUMAN Adenylate cyclase type 5 OS=Homo sapiens GN=ADCY5 PE=1 SV=3

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VTPQQQRLASRWSDDDDDPPLSGDDPLAGGFGFSFRSKSAWQERGGDDCGRGSRQR  
GAASGGSTRAPPAGGGGSAASAGGTEVRPRSVEVGLEERRGKGRAADELEAGAVEG  
GEGSGDGGSSADSGSGAGPGAVLSLGACCLALLQIFRSKKFSPDKLERLYQRYFFRLNQS  
SLTMLMAVLVLVCLVMLAFHAARPLQLPYLAVLAAVGVILIMAVLCNRAAFHQDHMGL  
ACYALIAVVLAVQVVGLLLPQPRASEGIWWTVFFIYTIYTLTPVRMRAAVLSGVLLSAL  
HLAIALRTNAQDQFLKQLVSNVIFSCTNIVGVCTHYPAEVSQRQAFQETRECIQARLH  
SQRENQQERLLSVLPRHVAMEMKADINAKQEDMMFHKIYIQKHDNVSILFADIEGFTS  
LASQCTAQELVMTLNELFARFDKLA AENHCLRIKILGDCYYCVSGLPEARADHAHCCVEM  
GMDMIEAISLVREVTGVNVNMRVGIHSGRVHCGVLGLRKWQFDVWSNDVTLANHMEAGGK  
AGRIHITKATLNYLNGDYEVEPGCGGERNAYLKEHSIETFLILRCTQKRKEEKAMIAKMN  
RQRTNSIGHNPPHWGAERP FYNHLGGNQVSKEMKRMGFEDPKDKNAQESANPEDEVDEFL  
GRAIDARSIDRLRSEHVRKFLTFREPDLKKYSKQVDDRFGAYVACASLVFLFICFVQI  
TIVPHSIFMLS FYLTCSLLTLVVFVSVIYSCVKLFPSPLQTL SRKIVRSKMNSTLVGVF  
TITLVFLAA FVMFTCN SRDLLGCLAQEHNISASQVNACHVAESAVNYSLGDEQGF CGSP  
WPNCNFPEYFTYSVLLSLLACSVFLQISCIGKLVMLAIELIYVLIVEVPGVT LFDNADL  
LVTANAIDFFNNGTSQCPEHATKVALKVTPIIISVFLALYLHAQQVESTARLDFLWKL  
QATEEKEEMEELQAYNRRLHNILPKDVA AHFLARERRNDELYYQSCECVAVMFASIANF  
SEFYVELEANNEGVECLRLNEIIADFDEI ISEDRFRQLEKIKTIGSTYMAASGLNDSTY  
DKVGKTHIKALADFAMKLMDQMKYINEHSFNNFQMKIGLNIGPVVAGVIGARKPQYDIWG  
NTVNVASRMDSTGVPDRIQVTTDMYQVLAANTYQLECRGVVKVKGKGEMMTYFLNGGPPL  
S

>sp|C9JUS6|ADM5\_HUMAN Putative adrenomedullin-5-like protein OS=Homo sapiens GN=ADM5 PE=2  
SV=1

MTIHILILLLLLA FSAQGDLDTAARRGQHQPQHRGHVCYLGVCRTHRLAEIIYWIRCLH  
QGALGEGQPRAPGPLQLWAPPVARGGSPARFPGRPAARGLAQCPARWVTS GTARPLLGF  
SLPICMLELLHHISSPLTPAPETVFPSPSPGCD

>sp|P05141|ADT2\_HUMAN ADP/ATP translocase 2 OS=Homo sapiens GN=SLC25A5 PE=1 SV=7

MTDAAVSFAKDFLAGGVAAAISKTA VAPIERVKLLQVQHASKQITADKQYKGIIDCVVR



IPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFLGGVDKRTQFWLYFAGNLASG  
GAAGATSLCFVYPLDFARTRLAADVGKAGAEREFRGLGDCLVKIYKSDGIKGLYQGFNV  
VQGI I IYRAAYFGIYDTAKGMLDPKNT H I V S W M I A Q T V T A V A G L T S Y P F D T V R R R M M M  
QSGRKGT D I M Y T G T L D C W R K I A R D E G G K A F F K G A W S N V L R G M G G A F V L V L Y D E I K K Y T

>sp|P12236|ADT3\_HUMAN ADP/ATP translocase 3 OS=Homo sapiens GN=SLC25A6 PE=1 SV=4

MTEQAISFAKDFLAGGIAAAISKTA VAPIERVKLLLVQVQHASKQIAADKQYKGIVDCIVR  
IPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGNLASG  
GAAGATSLCFVYPLDFARTRLAADVGKSGTEREFRGLGDCLVKITKSDGIRGLYQGFVS  
VQGI I IYRAAYFGVYDTAKGMLDPKNT H I V S W M I A Q T V T A V A G V S Y P F D T V R R R M M M  
QSGRKGA D I M Y T G T V D C W R K I F R D E G G K A F F K G A W S N V L R G M G G A F V L V L Y D E L K K V I

>sp|Q6ZN18|AEBP2\_HUMAN Zinc finger protein AEBP2 OS=Homo sapiens GN=AEBP2 PE=1 SV=2

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GGSGGGGGGGGGVGGGEAETMSEPSPEASQAGEDEDEEEDDEEEDDESSSGGGEES  
SAESLVGSSGSSSDETRSLSPGAASSSSGDGDGKEGLEEPKGPRGSQGGGGGSSSSSV  
VSSGDEGYGTGGGSSATSGRRGSLEMSSDGEPLSRMDSEDSISSTIMDVDSTISSGR  
STPAMMNGQGSTSSSKNIAYNCCWDQCQACFNSSPDADHIRSIHVDGQRGGVFVCLWK  
GCKVYNT PSTSQSWLQRHMLTHSGDKPFKCVVGGCNASFASQGGGLARHVP THFSQQNSSK  
VSSQPKAKEESPSKAGMNKRRRLKNKRRRSLPRPHDFDAQTLD AIRHRAICFNLSAHIE  
SLGKGHSVVFHSTVIAKRKEDSGIKLLHWPEDILPDVWVNESERHQLKTKVVHLSKL  
PKDTALLLDPNIYRTMPQKRLKRTLIRKVFNL YLSKQ

>sp|P43652|AFAM\_HUMAN Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

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EEMKLVKDMVEYKDRCMADKTLPECSKLPNNVLQEKICAMEGLPQKHNF SHCCSKVDAQ  
RRLCFFYNKSDVGFLPPFPTLDPEEKQAYESNRESLLNHFLYEVARRNPFV FAPTLLT  
VAVHFEEVAKSCCEEQNKVNCLQTRAIPVTQYLKAFSSYQKHVCGALLKFGTKVVHFIYI  
AILSQKFPKIEFKELISLVEDVSSNYDGCCEGDVVQCIRDTSKVMNHICSKQDSISSKIK  
ECCEKKIPERGQCIINSNKDDRPKDLSLREGKFTDSENVQERDADPD TFFAKFTFEYSR  
RHPDLSIPELLRIVQIYKDLLRNCCNTENPPGCYRYAEDKFNETTEKSLKMVQ QECKHFQ  
NLGKDLGLKYHYLIRLTKIAPQLSTEELVSLGEKMTAFTTCCTLSEEFACVDNLADLVFG  
ELCGVNENRTINPAVDHCKTNFAFRRPCFESLKADKTYVPPPFSQLDFTFHADMCQSQN  
EELQRKTDRFLVNLVKLKHETDEELQSLFTNFANVVDKCKAESPEVCFNEESPKIGN

>sp|Q9Y6Z5|AFAS1\_HUMAN Putative uncharacterized protein AFDN-AS1 OS=Homo sapiens GN=AFDN-  
AS1 PE=5 SV=1

MGAAGSDGRCCVRSGRAGTGGAGSKWVMDLWTGGAGSRRAVLGPDGRWVRWAVLGSVRM  
GGARSKWAAPDPMGGAGFGPDWRVRVWTGGAGSKWGCSAGSGRAVLGPNGRWVPWAVLGS  
VRTGGAGSKWAALGPMGGTGSRAVLGLDGRCSIQMGAGSGRAVLGSVRTGGAGSKWAV  
LGSAGDRWAWRHRYGAQGRWSALSEGPCAPRARCSSCPRIAPGLLRVSSRVIPFRWVTSK  
PTFSSCFLPRRTRC

>sp|P51825|AFF1\_HUMAN AF4/FMR2 family member 1 OS=Homo sapiens GN=AFF1 PE=1 SV=1

MAAQSSLYNDRNLLRIREKERRNQEAHQEKEAFPEKIPLFGEPYKTAKGDELSSRIQNM  
LGNYEEVKEFLSTKSHTHRLDASENRLGPKYPLIPDKGSSIPSSSFHTSVHHQSIHTPA  
SGPLSVGNISHNPMAQPRTEPMPSLHAKSCGPPDSQHLTQDRLGQEGFGSSHHKKGDRR  
ADGDHCASVTDSAPERELSPLISLPSPVPPLSPIHSNQQLPRTQGSSKVHGSSNNSKGY  
CPAKSPKDLAVKVHDKETPQDSLVAQAQPPSQTFPPPSLPSKSVAMQQKPTAYVRPMDGQ

DQAPSESPCLKPLPEDYRQQTFEKTDLKVPKAKLTKLKMPSQSVEQTYSEVHCVEEIL  
KEMTHSWPPPLTAIHTPSTAEPKFPFPTKDSQHVSSVTQNKQYDTSSKTHSNSQQGTS  
SMLEDDLQLSDSEDSEQTPEKPPSSSAPPSAPQSLPEPVASAHSSSAESESTSDSDSS  
SDSESESSSSDSEENELETPEPEPEPTTNKWQLDNWLTQVSPAAPPEGPRSTEPPRR  
HPESKGSSDSATSQEHSSEKDPKPKSSSKAPRAPPEAPHPGKRSCQKSPAQQEPPQRQTV  
GTKQPKKPVKASARAGSRTSLQGEREPGLLPYGSRDQTSKDKPKVKTKGRPRAAASNEPK  
PAVPPSSEKKKKHSSLPAPSKALSGPEPAKDNVEDRTPHFALVPLTESQGPPHSGSGSR  
TSGCRQAVVVQEDSRKDRLLPLRDTKLLSPLRDTPPPQSLMVKITLDLLSRIPQPPGKG  
SRQRKAEDKQPPAGKKHSSEKRSSDSSSKLAKKRKGEAERDCDNKKIRLEKEIKSQSSSS  
SSSHKESSTKPSRPSSQSSKEMLPPPVSSSSQKPAKPAKRSRREADTCGQDPPKSA  
SSTKSNHKDSSIPKQRRVEGKGRSSSEHKGSSGDTANPFVPSLPNGNSKPGKPVKFD  
KQQADLHMREAKMKQKAELMTDRVKGAFKYLEAVLSFIECGIATESQSSKSAYSVYS  
ETVDLIKFIIMSLKSFSDATPTQEKIFAVLCMRCQSILNMAMFRCKKDIAIKYSRTLKXH  
FESSKVAQAPSPCIASGTGPSPLSPMPSPASSVGSQSSAGSVGSSGVAATISTPVTIQN  
MTSSYVTTITSHVLTAFDLWEQAEALTRKNKEFFARLSTNVCTLALNSSLVDLVHYTRQGF  
QQLQELTKTP

>sp|Q9UHB7|AFF4\_HUMAN AF4/FMR2 family member 4 OS=Homo sapiens GN=AFF4 PE=1 SV=1

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EMKDFIGDRSIPKLVAIPKPTVPPSADEKSNPNFFEQRHGGSHQSSKWTPVGPAPSTSQS  
QKRSSGLQSGHSSQRTSAGSSSGTNSSGQRHDRESYNNSGSSSRKKGGHGSEHSKRSSS  
PGKPQAVSSSLNSSHSRSHGNDHHSKEHQRSKSPRPDANWDSPSRVPFSSGQHSTQSFPP  
SLMSKSNMQLKPTAYVRPMDGQESMEPKLSSEHYSSQSHGNSMTELKPSSKAHLTKLKI  
PSQPLDASASGDVSCVDEILKEMTHSWPPPLTAIHTPCKTEPSKFPFPTKESQQSNFGTG  
EQKRYNPSKTSNGHQSKSMLKDDLKLSSESDGEQDCDKTMPRSTPGSNSEPSHHNSEG  
ADNSRDDSSSHSGSESSSGSDSESESSSSDSEANEPSQSASPEPEPPPTTNKWQLDNWLNK  
VNPBKVPASSVDNISIPSSQGYKKEGREQGTGNSYTDTSQPKETSSATPGRDSKTIQKGS  
ESGRGRQKSPAQSDSTTQRRTVGKKQPKKAEKAAAEPRGGLKIESETPVDLASSMPSSR  
HKAATKGRKPNIKKESKSSPRPTAEKKKYKSTSKSSQKSREI IETDTSSSDSESESLP  
PSSQTPKYPESNRTPVKPSVEEEDSFRRQRMFSPMEEKELLSPLSEPDDRYPLIVKIDL  
NLLTRIPGKPYKETEPKGEKKNVPEKHTREAQKQASEKVSNGKRKHKNEDDNRASESK  
KPKTEDKNSAGHKPSSNRESSKQSAAKEKDLLPSPAGVPSPKDPKTEHGSRKRTISQSSS  
LKSSSNSNKETSGSSKNSSSTSKQKTEGKTSSSSKEVKEKAPSSSSNCPPSAPTLDSSK  
PRRTKLVFDDRNYSADHYLQEAKKLKHNDALSDRFKAVYYLDVVSVFIECGNALEKNA  
QESKSPFPMYSETVDLIKTYMKLKNYLAPDATAADKRLTVLCLRCESLLYLRLFKLKEN  
ALKYSKTLTEHLKNSYNNSQAPSPGLGSKAVGMPSPVSPKLSPGNSGNYSSGASSASASG  
SSVTIPQKIHQMAASYVQVTSNFLYATEIWDQAEQLSKEQKEFFAELDKVMGPLIFNASI  
MTDLVRYTRQGLHWLRQDAKLIS

>sp|Q5BKT4|AG10A\_HUMAN Do1-P-Glc:Glc (2) Man (9) GlcNAc (2)-PP-Do1 alpha-1, 2-  
glucosyltransferase OS=Homo sapiens GN=ALG10 PE=2 SV=1

MAQLEGYYFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGHFSLSQWDP  
MITTLPLGLYLVSIGVIKPAIWIWSEHVVCISGMLRFVNLLFSVGNFYLLYLLFCKVQP  
RNKAASSIQRVLSTLTAVFPTLYFFNFLYYTEAGSMFFTLFAYLMCLYGNHKTS AFLGF  
CGFMFRQTNIWAVFCAGNVIAQKLTEAWKTELQKKEDRLPPIKGPFAEFRKILQFLLAY  
SMSFKNLSMLLLLTWPYILLGFLFCFVVGNGGIVIGDRSSHEACLHFPQLFYFFSFTLF

FSFPHLLSPSKIKTFLSLVWKRRLFFVVTLVSVFLVWKFTYAHKYLLADNRHYTFYVWK  
RVFQRYETVKYLLVPAYIFAGWSIADSLKSKSIFWNLMFFICLFTVIVPQKLEFRYFIL  
PYVIYRLNIPLPPTSRLICELSCYAVVNFITFFIFLNKTFQWPNSQDIQRFMW

>sp|095394|AGM1\_HUMAN Phosphoacetylglucosamine mutase OS=Homo sapiens GN=PGM3 PE=1 SV=1

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VTASHNPEEDNGVKLVDPLEGMLAPSWEEHATCLANAEEQDMQRVLIDISEKEAVNLQQD  
AFVVGIRDTRPSSEKLSQSVIDGVTVLGGQFHDYGLLTTPQLHYMVYCRNTGGRYGKATI  
EGYYQKLSKAFVELTKQASCSGDEYRSLKVDCAANGIGALKLREMEHYFSQGLSVQLFNDG  
SKGKLNHLCGADFKVSHQKPPQGMEEKSNERCCSFDGDADRIVYYYHDADGHFHLIDGDK  
IATLISSFLKELLVEIGESLNIGVVQTAYANGSSTRYLEEVMKVPVYCTKTGVKHLHHKA  
QEFDIGVYFEANGHTALFSTAVEMKIKQSAEQLEDKKRKAAMLENIIDLFNQAAGDAI  
SDMLVIEAILALKGLTVQQWDALYTDLPNRQLKVQVADRRVISTTDAERQAVTPPGLQEA  
INDLVKKYKLSRAFVRPSGTEDVVRVYAEADSQESADHLAHEVSLAVFQLAGGIGERPQP  
GF

>sp|Q5TGY3|AHDC1\_HUMAN AT-hook DNA-binding motif-containing protein 1 OS=Homo sapiens  
GN=AHDC1 PE=1 SV=1

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PRPPRRDPSTRPPVLAKGDDPLPPRAARPVSAQCPTPVGDGSSSRRCWDNGRVNLRP  
VVQLIDIMKDLTRLSQDLQHSGVHLDCGGLRLSRPPAPPPGDLQYSFFSSPSLANSIRSP  
EERATPHAKSERPSHPLYEPEPEPRDSPQPGQHSPGATAAATGLPPEPEPDSTDYSELA  
DADILSELASLTCPEAQLLEAQALEPPSPEPEPQLLDPQPRFLDPQALEPLGEALELPPL  
QPLADPLGLPGLALQALDTLPDSLESQLLDPQALDPLKLLDVPGRRLPEQQPLGHCPLA  
EPLRLDLCSPHPPGPEGHPKYALRRTDRPKILCRRRKAGRGRKADAGPEGRLPLPMPT  
GLVAALAEPPPPPPPPALPGPGPVSVPELKPESSQTPVVSTRKGKCRGVRRMVVKMAK  
IPVSLGRRNKTTYKVSSLSSSLVEGKELGLRVSAEPTPLLKMKNNGRNVVVVFPPGEMP  
IILKRKRGRPPKNLLGPGKPKPAVVAAEAATVAAATMAMPEVKKRRRRKQKLASPQPS  
YAADANDSKAEYSVDVLAKLAFLNRQSCAGRCSPRCWTPSEPESVHQAPDTQSI SHFLH  
RVQGFRRRGKAGGFGGRGGGHAAKSARCSFSDFEFIGKKKKVAVAAAAGVGGPGLTEL  
GHPRKRGRGEVDAVTGPKRKRKRSRKNLTFPEQVPSGPGFGEAGA EWAGDKGGGWAPHH  
GHPGGQAGRNCGFQGT EARAFASTGLESGASGRGSYYSTGAPSGQTELSQERQNLFTGYF  
RSLDSDDDSSDLLDFALSARPESRKASGTYAGPPTSALPAQRGLATFPSRGAKASPVAV  
GSSGAGADPSFQPVLSARQTFPPGRAASYGLTPAASDCRAAETFPKLVPPPSAMARSPTT  
HPPANTYLPQYGGYGAGQSVFAPTKPFTGQDCANSKDCSFAYGSGNSLPASPSSAHSAGY  
APPPTGGPCLPPSKASFFSSSEGAPFSGSAPTPLRCDSRASTVSPGGYMPKGTASATS  
AASAASSSSSSFPSPENCRCQFAGASQWPFRQGYGGLDWASEAFSQLYNPSFDCHVSEPN  
VILDISNYTPQVKVQQTAVSETFSESSSDSTQFNQPVGGGGFRRANSEASSSEGQSSLSS  
LEKLMDWNEASSAPGYNWNQSVLFQSSSKPGRGRRKKVDLFEASHLGFPTSASAAAAGY  
PSKRSTGPRQPRGGRGGGACSAKKERGGAAAKAFIPKPQPVNPLFQDSPDLGLDYYSGD  
SSMSPLPSQSRAGVGERDPCDFIGPYSMNPSTPSDGTGQGFHCDSPSLGAPELDGKHF  
PPLAHPPTVFDAGLQKAYSPTCSPTLGFKEELRPPPTKLAACEPLKHGLQGASLGHAAAA  
QAHLSCRDLPLGQPHYDPSCKGTAYWYPPGSAARSPPYEGKVG TGLLADFLGRTEAACL  
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DTAYRYPGFMPQAHPGLGGGPKSGFLGPMAEPHPEDTFTVTSL

>sp|Q8N157|AHI1\_HUMAN Jouberin OS=Homo sapiens GN=AHI1 PE=1 SV=1

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KQGKPNKKVIKTPQLTTQDLKPETPENKVDSTHQKTHTKPQPGVDHQSEKANEGREET  
DLEEDEELMQAYQCHVTEEMAKEIKRKIRKKLKEQLTYFPSDTLFDHDKLSSEKRRKKKE  
VPVFSKAETSTLTISGDTVEGEQKKESSVRVSSDSHQDDEISSMEQSTEDSMQDDTKPK  
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ISHPMVKIHVVDEHTGQYVKKDDSGRPVSSYYEKENVDYILPIMTQPYDFKQLKSRLPEW  
EEQIVFNENFPYLLRGSDDESPKVLFFEILDFLSVDEIKNNSEVQNQECGFRKIAWAFLK  
LLGANGNANINSKRLRLQLYPPTKPRSPLSVVEAFEWWSKCPRNHYPSTLYVTVRGLKVP  
DCIKPSYRSMMALQEEKGKPVHCHERHHESSVDTEPGLEESKEVIKWKRLPGQACRIPNK  
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MIRIWKVEMREDSAILVRQFDVHKSFINSLCFDTEGHHMYSGDCTGVIWVWNTYVKINDL  
EHSVHHWTINKEIKETEFKGIPISYLEIHPNGKRLLIHTKDSTLRIMDLRILVARKFVGA  
ANYREKIHSTLPCGTFLFGSEDGIVYVWNPETGEQVAMYSDLFPKSPIRDISYHPFEN  
MVAFCAFGQNEPILLYIYDFHVAQQEAEMFKRYNGTFPLPGIHQSQDALCTCPKLPHQGS  
FQIDEFVHTESSTKMLVKRLETVTEVIRSCAAKVNKNLSFTSPPAVSSQQSKLKQSN  
MLTAQELHGFQFTGTGIISIERKPCNHQVDTAPTVALYDYTANRDELTIHRGDIIRV  
FFKDNEWWYGSIGKGQEGYFPANHVASETLYQELPPEIKERSPPLSPEEKTKEKSPAP  
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>sp|Q9BV10|ALG12\_HUMAN Do1-P-Man:Man(7)GlcNAc(2)-PP-Do1 alpha-1,6-mannosyltransferase  
OS=Homo sapiens GN=ALG12 PE=1 SV=1

MAGKSSGRRPLLLGLLVAVATVHLVICPYTKVEESFNLQATHDLLYHWQDLEQYDHLEF  
PGVVPRTFLGPVVIADFSSPAVYVLSLLEMSKFYSQLIVRGVGLGVIFGLWTLQKEVRR  
HFGAMVATMFCWVTAMQFHLMFYCTRTPNLVLPVLLALAAWLHEWARFIWLSAFAI  
IVFRVELCLFLGLLLLLLALGNRKVSVVRALRHAVPAGILCLGLTAVDSYFWRQLTWPEG  
KVLWYNTVLNKSNGWTSPLLWYFYSALPRGLGCSLLFIPLGLVDRRTHAPTVLALGFMA  
LYSLLPHKELRFIIYAFMLNITAARGCSYLLNNYKSWLYKAGSLLVIGHLVVNAAYSA  
TALYVSHFNYPGGVAMQRLHQLVPPQTDVLLHIDVAAAQTGVSRLQVNSAWRYDKREDV  
QPGTGMLAYTHILMEAPGLLALYRDTHRVLASVVGTTGVSLNLTQLPPFNVHLQTKLVL  
LERLPRPS

>sp|Q96F25|ALG14\_HUMAN UDP-N-acetylglucosamine transferase subunit ALG14 homolog OS=Homo  
sapiens GN=ALG14 PE=1 SV=1

MVCVLVAAAAGAVAVFILRIWVLRSMVTPRESLSILVVAGSGGHTTEILRLGSL  
NAYSPRHYVIADTDEMSANKINSFELDRADRDPSNMYTKYYIHRIPRSREVQQSWPSTVF  
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>sp|O95433|AHSA1\_HUMAN Activator of 90 kDa heat shock protein ATPase homolog 1 OS=Homo  
sapiens GN=AHSA1 PE=1 SV=1

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VSKLDGEASINNRKGLIFFYEWVSKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEIS  
VSLAKDEPDTNLVALMKEEGVKLLREAMGIYISTLKTEFTQGMILPTMNGESVDPVGQPA  
LKTEERKAKAPPSKTQARPVGKIPCTCKITLKETFLTSPPELYRVFTTQELVQAFTHAPA  
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CMEGRGIPAPEEERTRQGWQRYFEGIKQTFGYGARLF

>sp|Q719I0|AHS2\_HUMAN Activator of 90 kDa heat shock protein ATPase homolog 2 OS=Homo sapiens GN=AHS2 PE=1 SV=2

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SLSKKKGDGVILKDLMTAGTAKVREALGDYLGKALTEFTTGMILPTKAMATQELTVKRRK  
LSGNTLQVQASSPVALGVRIPTVALHMMELFDTTVEQLYSIFTVKELTNKKIIMKWRCGN  
WPEEHYAMVALNFVPTLGQTELQLKEFLSICKEENMKFCWQKQHFEEIKGSLQLTPLNG

>sp|Q96NN9|AIFM3\_HUMAN Apoptosis-inducing factor 3 OS=Homo sapiens GN=AIFM3 PE=1 SV=1

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LSRGRVRCPWGACFNISTGDLEDFPGLDSLHKFQVKIEKEKVYVRASKQALQLQRRTKV  
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SLDTQPEQLALRPKEFFRAYGIEVLTEAQVVTVDVVRTKKVVFQDGFLEYSKLLAPGSS  
PKTSLCKGKEVENVFTIRTPEDANRVVRLARGRNVVVVGAGFLGMEVAAYLTEKAHSVSV  
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DVCVVGIGAVPATGFLRQSGIGLDSRGFIPVNMKMTNPGVFAAGDAVTFPLAWRNNRK  
VNIPHWQMAHAQGRVAAQNMLAQEAEMSTVPYLWTAMFGKSLRYAGYGEFDDVLIQGD  
EELKFVAFYTKGDEVIIVASMNYDPIVSKVAEVLASGRAIRKREVELFVLHSGTGMMSWL  
TGKGS

>sp|Q9NVV5|AIG1\_HUMAN Androgen-induced gene 1 protein OS=Homo sapiens GN=AIG1 PE=1 SV=2

MALVPCQVLRMAILLSYCSILCNKAIEMPSHQTYGGSWKFLTFIDLVIQAVFFGICVLT  
DLSSLLTRGSGNQEQERQLKKLISLRDWMLAVLAFVGVFVAVFWIIYAYDREMIYPKL  
LDNFIPGWLNHGMHTTVLPFILIEMRSSHQYPSRSSGLTAICTFSVGILWVCWVHHVT  
GMWVYPFLEHIGPGARIIFFGSTTILMNFLYLLGEVLNNYIWDQKKPPSWQDMKIKFMY  
LGPSS

>sp|Q9Y4K1|AIM1\_HUMAN Absent in melanoma 1 protein OS=Homo sapiens GN=AIM1 PE=1 SV=3

MEKRSSGRRSGRRRSQKSTDSPGADAELPESAARDDAVFDDEVAPNAASDNASAEKKVK  
SPRAALDGGVASAASPESKPSPGTKGQLRGESDRSKQPPASSPTKRKGRSRALEAVPAP  
PASGPRAPAKESPPKRVDPSPVTGTAAESGEEAARAIPRELPAKSSLLPEIKPEHKKR  
GPLPNHFNGRAEGGRSRELGRAAGAPGASDADGLKPRNHFGVGRSTVTTKVTLPAKPKHV  
ELNLKTPKNLDSLNEHNPFSPVHKNTATKISLFENKRTNSSPRHTDIRGQRNTPASS  
KTFVGRAKLNLAkakEMEPEKKVMPNSPQNGVLVKEATAIETKVTVSEEEILPATRGMN  
GDSSNQALGPQPNQDDKADVQTDAGCLSEPVASALIPVKDHKLEKEDSEAADSKSLVL  
ENVTDTAQDIPTTVDTKDLPTAMPKPQHTFSDSQSPAESSPGPSLSLAPAPGDVPKDT  
CVQSPISFPCTDLKVSSENHKGCVLPVSRQNNKMPLELGGETTPPLSTERSPEAVGSE  
CPSRVLVQVRSFVLPVESTQDVSSQVIPESSEVREVQLPTCHSNEPEVSVASCAPPQEE  
VLGNEHSHCTAELAASKGPQVIPPASEKTLPIQAQSQGSRTPLMAESSPTNSPSSGNHLA  
TPQRPDQTVTNGQDPSALLNISAGSDDSVFDSDDMEKFTEIIKQMDSAVCMMPMKRKA  
RMPNSPAPHFAMPPIHEDHLEKVFDPKVFTFGLGKKKESQPEMSPALHLMQNLDTKSKLR  
PKRASAEQSVLFKSLHTNTNGNSEPLVMPEINDKENRDVTNGGIKRSRLEKSALFSSLLS  
SLPQDKIFSPSVTSVNTMTAFSTSQNGSLSQSSVSQPTTEGAPPCGLNKEQSNLLPDNS  
LKVFNFNSSTSHSLKSPSHMEKYPQKEKTKEDLSRSNLHLPETKFSLSKLNDDME  
KANHIESVIKSNLPCANSDDTDFMGLFKSSRYDPSISFSGMSLSDTMTLRGSVQNKLNPR

PGKVVIYSEPDVSEKCIIEVFSDIQDCSSWSLSPVILIKVVRGCWILYEQPNFEGHSIPLE  
EGELELSGLWGIEDILERHEEAESDKPVVIGSIRHVVDYRVSHIDLFTPEGLGILSSY  
FDDTEEMQGGFVGMQKTCMKVHWGTWLIYEPPGFQGVPIFILEPGEYPDLSFWDTEEAYIG  
SMRPLKMGGRKVEFPTDPKVVVYEKPPFEGKCVELETGMCSEVMEGGETEEATGDDHLPF  
TSVGSMAKVLRGIWVAYEKPFGTGHQYLLEEGEYRDWKAAGGYNGELQSLRPILGDFSNAH  
MIMYSEKNFGSKGSSIDVLGIVANLKETGYGVKTSINVLSGVWVAYENPDFTGEQYILD  
KGFYTSFEDWGGKNCKISSVPICLDSFTGPRRRNQIHLFSEPQFQGHSSQSFEETTSQID  
DSFSTKSCRVSOGSWVVDGENFTGNQYVLEEGHYPCLSAMGCPPGATFKSLRFIDVEFS  
EPTIILFEREDFKGKKIELNAETVNLRLSLGFNTQIRSVQVIGGIWVTYEYGSYGRQFLL  
SPAEPNWNWYEFSGCRQIGSLRPFVQKRIYFRLRNKATGLFMSTNGNLEDLKLRLRIQVMED  
VGADDQIWIYQEGCIKRIAEDCLTIVGSLVTSGSKLGLALDQNAQSQFWSLKSDBGRIY  
SKLKPNVLVDIKGGTQYDQNHIIILNTVSKEKFTQVWEAMVLYT

>sp|Q13155|AIMP2\_HUMAN Aminoacyl tRNA synthase complex-interacting multifunctional  
protein 2 OS=Homo sapiens GN=AIMP2 PE=1 SV=2

MPMYQVKPYHGGAPLRVELPTCMYRLPNVHGRSYGPAPGAGHVQEEENLSLQALESRQD  
DILKRLYELKAAVDGLSKMIQTPDADLDVTNIIQADEPTTLTTNALDLNSVLGKDYGALK  
DIVINANPASPLSLLVLHRLCEHFRVLSTVHTHSSVKSPENLLKCFGEQNKQPRQD  
YQLGFTLIWKNVPKTKMKSFIQTMCPIEGEGNIARFLFSLFGQKHNAVNATLIDSWVDIA  
IFQLKEGSSKEKAAVFRSMNSALGKSPWLAGNELTVADVVLWSVLQQIGGCSVTVPANVQ  
RWMRSCENLAPFNTALKLLK

>sp|O43918|AIRE\_HUMAN Autoimmune regulator OS=Homo sapiens GN=AIRE PE=1 SV=1

MATDAALRRLRLHRTETIAVAVDSAFPLLHALADHDVVPEDKFQETLHLKEKEGCPQAFH  
ALLSWLLTQDSTAILDFWRVLFKDYNLERYGRLQPIILDSFPKDVLSQPRKGRKPPAVPK  
ALVPPPRLPTRKASEEAAAAPALTPRGTASPGSQLKAKPPKPESSAEQQRLPLGNG  
IQTMSASVQRAVAMSSGDVPGARGAVEGILIQQVFESGGSKKCIQVGGEFYTPSKFEDSG  
SGKNKARSSSGPKPLVRAKGAQGAAPGGGEARLGQQGSVPAPLALPSDQLHQKNEDECA  
VCRDGGELICCDGCPRAFHLACLSPPLREIPSGTWRCSSCLQATVQEVQPRAEPRPQEP  
PVETPLPPGLRSAGEEVRGPPGEPLAGMDTTLVYKHLPAAPSAAPLPLGLDSSALHPLLVCV  
GPEGQQNLAPGARCGVCGDGTDLRCTHCAAAFHWRFHPAGTSRPGTGLRCRSCSGDVT  
PAPVEGVLAPSPARLAPGPAKDDTASHEPALHRDDLESLLSEHTFDGILQWAIQSMARPA  
APFPS

>sp|P14550|AK1A1\_HUMAN Alcohol dehydrogenase [NADP(+)] OS=Homo sapiens GN=AKR1A1 PE=1  
SV=3

MAASCVLLHTGQKMPLIGLGTWKSEPGQVKAAYKALSVGYRHIDCAAIYGNPEIGEAL  
KEDVGPGLKAVPREELFVTSKLWNTKHHPEDVEPALRKTLDLQLEYLDLYLMHWPYAFER  
GDNPFPPKNADGTICYDSTHYKETWKALEALVAKGLVQALGLSNFNSRQIDDILSVASVRP  
AVLQVECHPYLAQNELIAHCQARGLEVTAYSPLGSSDRAWRPDEPVLLEEPVVLALAEK  
YGRSPAQILLRWVQVRKVICIPKSITPSRILQNIKVFDFTFSPPEMKQLNALNKNWRYIV  
PMLTVDGKRVPRDAGHPLYPFNDPY

>sp|O43572|AKA10\_HUMAN A-kinase anchor protein 10, mitochondrial OS=Homo sapiens  
GN=AKAP10 PE=1 SV=2

MRGAGPSPRQSPRTLRPDPGPAMSFRRKVKGEQEKTSDVKSISVHSPQKSTKNH  
ALLEAAGPSHVAINAISANMDSFSSRTATLKKQPSHMEAAHFGDLGRSCLDYQTQETKS  
SLSKTLEQVLHDTIVLPYFIQFMELRRMEHLVKFWLEAESFHSTTWSRIRAHSLNTVKQS

SLAEPVSPSKKHETTASFLTDSLDRLEDSGSAQLFMTHSEGIDLNNRTNSTQNHLLSQ  
ECDSAHSRLMARAGTHQVSMETQESSSTLTVASRNSPASPLKELSGKLMKSIEQDAVN  
TFTKYISPDAAKPIPITEAMRNDIARICGEDGQVDPNCFVLAQSIVFSAMEQEHFSEFL  
RSHHFCKYQIEVLTS GTVYLADILFCESALFYFSEYMEKEDAVNILQFWLAADNFQSQA  
AKKGQYDQGEAQNDAMILYDKYFSLQATHPLGFDDVVRLEIESNICREGGPLPNCFTTPL  
RQAWTTMEKVFLPGFLSSNLYKYLNLDLHISVRGDEFLGGNVSLTAPGSVGPDESHPGS  
SDSSASQSSVKKASIKILKNFDEAIIVDAASLDPESLYQRTYAGKMTFGRVSDLGQFIRE  
SEPEPDVRKSKGSMFSQAMKKVWGNTDEAQEELAWKIAKMIVSDIMQQAQYDQPLEKST  
KL

>sp|Q9POM2|AKA7G\_HUMAN A-kinase anchor protein 7 isoform gamma OS=Homo sapiens GN=AKAP7  
PE=1 SV=2

MERPEAGGINSNECENVSRKKKMSEEF EANTMDSLVDMPFATVDIQDDCGITDEPQINLK  
RSQENEVWKSDQVKRKKKKRKYQPNYFLSIPITNKEIIKGIKILQNAIIQQDERLAKAM  
VSDGSFHITLLVMQLNEDEVNIGIDALLELKPFIEELLQGKHLTLPFQIGTFGNQVGF  
VKLAEGDHVNSLLEIAETANRTFQEKGILVGESRSFKPHLTFMKLSKSPWLRKNGVKKID  
PDLYEKFISHRFGEELIYRIDLCMSMLKKKQSNGYHCESSIVIGEKNGGEPDDAELVRLS  
KRLVENAVLKAVQQYLEETQKNKPGEGSSVKTEAADQNGNDNENNRK

>sp|Q9H9L7|AKIR1\_HUMAN Akirin-1 OS=Homo sapiens GN=AKIRIN1 PE=1 SV=1

MACGATLKRPMFEFAALLSPGSPKRRRCAPLPGPTPGLRPPDAEPPPPFQTQTPPQSLQQ  
PAPPGSERRLPTEQIFQNIKQEYSRYQRWRHLEVVLNQSEACASESQPHSSALTAPSSP  
GSSWMKKDQPTFTLRQVGIICERLLKDYEDKIREEYEQILNTKLAEQYESFVKFTHDQIM  
RRYGTRPTS YVS

>sp|Q7Z591|AKNA\_HUMAN AT-hook-containing transcription factor OS=Homo sapiens GN=AKNA  
PE=1 SV=2

MASSETEIRWAEPGLGKGPQRRRWAWAEDKRDVDRSSSQSWEEERLFPNATSPELLEDFR  
LAQQHLPPLEWDHPHPQPDGHQDSEGETSGEEAEAEDVDSPASSHEPLAWLPQQGRQLDM  
TEEEP DGTLGSLEVEEAGESSRLGYEAGLSLEGHGNTSPMALGHGQARGWVASGEQASG  
DKLSEHSEVNPSVELSPARSSSGTVSLDHPSDSLSTWEGETDGPQPTALAETLPEGPS  
HHLLSPDGRTGGSVARATPMEFQDSSAPPAQSPQHATDRWRRETTFRFCQPKEHIWKQT  
KTSPKPLPSRFIGSISPLNPQRPTRQGRPLPRQGATLAGRSSSNAPKYGRGQLNYPLPD  
FSKVGPRVRFPKDESYRPPKSRSHNRKPQAPARPLIFKSPAETVQEVLLSSGEAALAKDT  
PPAHPITRVPQEFQTPEQATELVHQLQEDYHRLLT KYAEAENTIDQLRLGAKVNLFS DPP  
QPNHSIHTGMVPQGTKVLSFTIPQPRSAEWWPQPAEDPQASAASGWPSARGDLSPSSLTS  
MPTLGWLPENRDISEDQSSAEQTALASQASQFLAKVESFERLIQAGRLMPQDQVKGFQR  
LKAHAHALEEEYLKACREQHPAQPLAGSKGTPGRFDPRRELEAEIYRLGSCLEELKEHID  
QTQQEPEPPGSDSALDSTPALPCLHQPTHLPAPSGQAPMPAIKTSCPEPATTTAAASTGP  
CPLHVNVEVSSGNEVEDRQDPLARLRHKELQMEQVYHGLMERYLSVKS LPEAMRMEEE  
EEEEEEEEEGGDSLEVDGVAATPGKAEATRVLPQCPVQAEKSHGAPLEEATEKMVSM  
KPPGFQASLARDGHMSGLGKAEAAPPGVPVPPHPPGTKSAASHQSSMTSLEGSGISERLP  
QKPLHRGGGPHLEETWMA SPETDSGFVGSETSRVSPLTQTPEHRLSHISTAGTLAQPF AA  
SVPRDGASYPKARGSLIPRRATEPSTPRSQAQRYLSSPSGPLRQRAPNFSLERTLAAEMA  
VPGSEFEGHKRISEQPLPNKTI SPPPAPAPAAAPLPCGPTETIPSFLLTRAGRDQAICEL  
QEEVSRLRLRLEDSLHQPLQGSPTRPASAFDRPARTRGRPADSPATWGSHYGSKSTERLP  
GEPRGEEQIVPPGRQRRSSSVPREVLRLSLSSESELPSLPLFSEKSKTTKDSPQAARDG

KRGVGSAGWPDRVTFRGQYTGHEYHVLSPKAVPKNGTVSCPHCRPIRTQDAGGAVTGDP  
LGPPPADTLQCPLCGQVGSPEADGPGSATSGAEKATTRRKASSTPSPKQRSKQAGSSPR  
PPPGWLATAPPAPAPPAYISSVPIMPYPAAVYAPAGPTSAQPAKWPTASPPP  
ARRHRHSIQDLGLDEELNKALSRAVQAESVRSTTRQMRSSLADLRQAHSRLRGSCLF

>sp|Q12802|AKP13\_HUMAN A-kinase anchor protein 13 OS=Homo sapiens GN=AKAP13 PE=1 SV=2

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GHCCCETVKVQLCASKEGLPVFVVAEEDFHFVQDEAYDAAQFLATSAGNQQALNFTFLD  
QSGPPSGDVNSLDKKLVLAFRHLKLPTENVLGTDQSLHDAGPRETLMHFAVRLGLLRIT  
WFLQKPGGRGALS IHNQEGATPVSLALERGYHKLHQLL TEENAGEPDSWSSLSYEIPYG  
DCSVRHHRELDIYTLTSESDSHHEHPFGDGGCTGPIFKLMNIQQQLMKTNLKQMSLMPL  
MMAQDPSSAPETDQGFLPCAPEPTDPQRLSSSEETESTQCCPGSPVAQTESPCDLSSIV  
EEENTDRSCRKKNKGVERKGEEVEPAPIVDSGTVSDQDSCLQSLPDCGVKGTEGLSSCGN  
RNEETGTKSSGMPDQESLSSGDAVLQRDLVMEPGTAQYSSGGELGGISTTNVSTPD TAG  
EMEHGLMNP DATVWKNVLQGGESTKERFENS NIGTAGASDVHVT SKPVDKISVPNCAPAA  
SSLDGNKPAESSLAFSNEETSTEKTAETETSR SREESADAPVDQNSVVIPAAAKDKISDG  
LEPYTLAAGIGEAMSPSDLALLGLEEDVMPHQNSE TNSSHAQSQKGKSSPICSTTGDDK  
LCADSACQNTVTSSGDLVAKLCDNIVSESESTTARQPSSQDPPDASHCEDPQAHTVTSD  
PVRDTQERADFCPFKVVDNKGQRKDKVLDKPLTNMLEVVSHPHPVVPKMEKELVPDQAVI  
SDSTFSLANSPGSESVTKDDALSFVPSQKEKGTATPELHTATDYRDGPDGNSNEPDTRPL  
EDRAVGLSTSS TAAELQHGMGNTSLTGLGGEHEGPAPPAIPEALNIKGNTDSSLQSVGKA  
TLALDSVLTEEGKLLVVS ESSAAQE QDKDKAVTCS SIKENALSSGTLQEEQRTPPPGQDT  
QQFHEKSI SADCAKD KALQLSNSPGASSAFLKAET EHNKEVAPQVSLLTQGGAAQSLVPP  
GASLATESRQEALGA EHNS SALLPCLLPDGS DGS DALNCSQPSPLDVGVKNTQSQKTS A  
CEVSGDVTVDVTGNALQGMAEPRRENISHNTQDILIPNVLLSQEKNAV LGLPVALQDKA  
VTDPQGVGTPEMIPLDWEKGKLEGADHSCTMGDAEEAQIDDEAHPVLLQPVAKELPTDME  
LSA HDDGAPAGVREVMRAPP SGRERSTPSLPCMVS AQDAPLPKGADLIEEAASRIVDAVI  
EQVKAAGALLTEGEACHMSLSPELGPLTKGLES AFTEKVSTFPPGESLPMGSTPEEATG  
SLAGCFAGREEPEKIILPVQGPEPAAEMP DVKAEDVD FRASSISEEVAVGSIAATLKMK  
QGPMTQA INRENWCTIEPCD AASLLASKQSPECENFLDVGLGRECTSKQGVLKRESGSD  
SDLFHSPSDDMDSIIFPKPEEEHLACDITGSSSSTDDTASLDRHSSHGSDVLSLQILKPN  
RSRDRQSLDGFYSHGMGAEGRESESEPADPGDVEEEEMDSITEVPANCSVLRSSMRSLSP  
FRRH SWGPGKNAASDAEMNHRSSMRVLGDVVRPP IHRRSFSLEGLTGAGVGNKPSSSL  
EVSSANA EELRHPFSGEERVDSLVS LSEEDLES DQREHRMFDQQICHRSKQQGFNYCTSA  
ISSPLTKSISLMTISHPGLDNSRPFHSTFHNTS ANLTESI TEENYNFLPHSPSKDSEWK  
SGTKVSRTFSYIKNMSSSKKSKEKEKEKDKIKEKEKDSKDKEKDKKTVNGHTFSSIPVV  
GPISCSQCMKPF TNKDAYTCANCSAFVHKGCRESL ASCAKVKMKQPKGSLQAHD TSSLPT  
VIMRNKPSQPKERPRSAVLLVDETATTP IFANRRSQSVSLSKSVSIQNITGVGN DENMS  
NTWKFLSHSTD SLNKISKVNESTESLTDEGVG TDMNEGQLLGDFEIESKQLEAESWSRII  
DSKFLKQQKKDVVKRQEV IYELMQTEFH HVRTLKIMSGVYSQGMADLLFEQQMV EKLFP  
CLDELIS IHSQFFQRI LERKKESLVDKSEKNFLIKRIGDVLVNQFSGENAERLKKTYGKF  
CGQHNQSVNYFKDLYAKDKRFQAFVKKKMSSSVVRR LGIPECILLVTQRITKYPVLFQRI  
LQCTKDNEVEQEDLAQSLSLVKDVI GAVDSKVASYEKKVRLNEIYTKTDSKSI MRMKSGQ  
MFAKEDLKRKKLVRDGSVFLKNAAGRLKEVQAVLLTDILVFLQEKDQKYIFASLDQKSTV  
ISLKKLIVREVAHEEKGLFLISMGMTPEMVEVHASSKEERNSWIIQDIQDTINTLNRDED



EGIPSENEEEKMLDTRARELKEQLHQDKILLLEEKEMIFRDMaecstPLPEDCSPT  
HSPRVLFrsntEEALKGGLMKSAINEVEILQGLVSGNLGGTLGPTVSSPIEQDVVGPVS  
LPrraETFGGFDShQMnASKGGEKEEGDDGQDLRRTESDsgLKKGGNANLVFmLKRNSEQ  
VVQSVVHLYELLSALQGVLQQDSYIEDQKLVLSErALTRSLSRPSSLIEQEKQRSLEKQ  
RQDLANLQKQQAQYLEEKRRREREWearERELREREALLAQREEEVQQGQQDLEKEREEL  
QQKKGTYQYDLERLRAAQQLEREQELRREAERLSQRQTERDLCQVSHpHTKLMRIPSF  
FPSPEEPPSPSAPSIaKSGSLDSELsvSPKRNSISrTHKDKGPfHILSSTSQTnKGPEGQ  
SQAPASTSASTrLFGlTKPKKKEKKKKNKTSRSQPGDGPASEVSAEGEEIFC

>sp|Q9ULX6|AKP8L\_HUMAN A-kinase anchor protein 8-like OS=Homo sapiens GN=AKAP8L PE=1 SV=3

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YGMATSHSWEMPSSDTNANTSASGSASADSVLSrINQRLDMVPhLETdMMQGGVYSGGE  
RYDSYESCDSRAVLSErDLyRSGYDYSELDPEMEMAYEGQYDAYRDQFRMRGNDTFGPRA  
QGWArDARSGRPMASgyGRMWEDPMGARGQCMsGASRLPSLFSQNIIPeYGMfQGMRGGG  
AFPGGSRFGFGFGNGMKQMRRTWKTWTTADFrTKKKKrkQGGSPDEPDsKATrTDCSDNS  
DSDNDEGTEGEATEGLEgTEAVEKGSrVDGEDEEGKEDGreeGKEDPEKGalTTQDENGQ  
TKRKLQAGKKSQDKQKKRQRDRMVERIQFVCSLCKYrTFYeDEMASHLDSKFHKEHFkYV  
GTLKPKQTADFLQeYVTNKKTEELRKtVEDLDGLIHQIYrDQDLTQEIAMEHFVKKVE  
AAHCAACDLfIPMQFGIIQKHLKTMDHNRNRRLMMEQSKKSSLMVARSILNNKLISKKLE  
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SPPPPPPEEEEEGAVPLLGALQRQIRGIPLDVEDDEEGGGGAP

>sp|Q9H8T0|AKTIP\_HUMAN AKT-interacting protein OS=Homo sapiens GN=AKTIP PE=1 SV=1

MNPfWSMSTSSVRKRSEGEeKTLTGdVKTSPPRTAPKKQLPSIPKNALPITKPTSPAPAA  
QSTNGTHASyGPFYLEYSLLAEFTLVVKQLPGVYVQPSYRSALMWFGVIFIRHGLYQDG  
VFKFTVYIPDNYPDGDcPRLVFDIPVFHPLVDPTSGELDVKRAFAKWRrNHNIWQVLMY  
ARRVfYKIDTASPLNPEAAVLyEKDIQLFKSKVVDsvKVCTARLFDQPKIEDPYAISfSP  
WNPSVHDEAREKMLTQKKPEEQHNKSVHVAGLSWVKPGSVQPFsKEEKTVAT

>sp|Q96B36|AKT1S1\_HUMAN Proline-rich AKT1 substrate 1 OS=Homo sapiens GN=AKT1S1 PE=1 SV=1

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CLHDIALAHRAATAARPPAPPPAPQPPSPTSPPrPTLAREdNEEDEPTETETSgEQL  
GISDNGLFVMDedATLQDLPPFCESDPESTDDGSLSEETPAGPPTCSVPPASALPTQQY  
AKSLPVSVPVWGfKEKRTearSSDEngPPSPDLRIAASMRALVlREAEDTQVFGDLP  
RPRLNTSDFQKLKRKY

>sp|O75891|AL1L1\_HUMAN Cytosolic 10-formyltetrahydrofolate dehydrogenase OS=Homo sapiens  
GN=ALDH1L1 PE=1 SV=2

MKIAVIGQSLFGQEVYCHLRKEGHEVVGVFTVPDKDGKADPLGLEAEKdGVPVFKYSRWR  
AKGQALPDVVAKYQALGAELNVLpFCSQFIPMEIISAPRHGSIIYHPSLLPRHRGASAIN  
WTLIHGDKKGGSIFWADDGLDTGDLllQKECEVLpDDTVSTLYNRFLfPEGIKGMVQAV  
RLIAEGKAPRLPQPEEGATYEGIQKKETAKINWDQPAEAIHNWIRGNDKVPgAWTEACEQ  
KLtFFNSTLNTSGLVPEGDALPIPGAHRPGVVTKAGLILFGNDdKMllVKNIQLEDGKMI  
LASNFFKGAASSVLELTeAELVTAeAVRSVWQRILPKVLEVEDSTDFfKSGAASVDVVRl  
VEEVKELCDGLELENEdVYMASTFGDFIQLLVRKLRGDDEEGECsIDYVEMAVNKRTVRM  
PHQLFIGGEfVDAEGAkTSETINPTDGSVICQVSLAQVTDVDKAVAAAKDAfENGRWGKI  
SARDRGRLMYRLADLMEQHQEELATIEALDAGAVYTLALKTHVGMSIQTFRYfAGWCDKI  
QGSTIPINQARPNRNLTLTRKEPVGVCgIIIPWNYPLMMLSWKTAACLAAGNTVVIKPAQ

VTPLTALKFAELTLKAGIPKGVNVNLPGSGSLVGQRLSDHPDVRKIGFTGSTEVGKHIMK  
SCAISNVKKVSLELGGKSPLIIFADCDLNKAVQMGMSVFFNKGENCIAAGRLFVEDSIH  
DEFVRRVVEVRKMKVGNPLDRDTHGPNHHAHLVKLMEYQCQHGKKEGATLVCGGNQVP  
RPGFFFEPTVFTDVEDHMFIAKEESFGPVMIIISRFADGDLDAVLSRANATEFGLASGVFT  
RDINKALYVSDKLQAGTVFVNTYNKTDVAAPFGGFKQSGFGKDLGEAALNEYLRVKTVTTF  
EY

>sp|Q3SY69|AL1L2\_HUMAN Mitochondrial 10-formyltetrahydrofolate dehydrogenase OS=Homo sapiens GN=ALDH1L2 PE=1 SV=2

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ADPLALAAEKDGTVPFKLPKWRVKGTIKEVAEAYRSVGAELNVLPFCTQFIPMDIIDSP  
KHGSIYHPSILPRHRGASAINWTLIMGDKKAGFSVFWADDGLDTGPILLQRSCDVEPND  
TVDALYNRFLFPEGIKAMVEAVQLIADGKAPRIPQPEEGATYEGIQKENAEISWDQSAE  
VLHNWIRGHDKVPGAWTEINGQMVTFYGSTLLNSSVPPGEPLEIKGAKKPGLVTKNGLVL  
FGNDGKALTVRNLQFEDGKMIPASQYFSTGETSVVELTAEVKAETIKVIWAGILSNVP  
IIEDSTDFFKSGASSMDVARLVEEIRQKCGGLQLQNEDEVYMATKFEGFIQKVVRKLRGED  
QEVELVVDYISKEVNEIMVKMPYQCFINGQFTDADDGKTYDTINPTDGSTICKVSYASLA  
DVKAVAAAKDAFENGEGWRMNARERGRMLMYRLADLLEENQEELATIEALDSGAVYTLAL  
KTHIGMSVQTFRYFAGWCDKIQGSTIPINQARPNRNLFTKKEPLGVCATIIIPWNYPLMM  
LAWKSAACLAAGNTLVLPKAQVTPLTALKFAELSVKAGFPKGVINIIPGSGGIAGQRLSE  
HPDIRKLGFTGSTPIGKQIMKSCAVSNLKKVSLELGGKSPLIIFNDCELDKAVRMGMGAV  
FFNKGENCIAAGRLFVEESIHDEFVTRVVEEIKMKIGDPLDRSTDHGPQNHKAHLEKLL  
QYCETGVKEGATLVYGGRRVQRPFGFFMEPTVFTDVEDYMYLAKEESFGPIMVISKFQNGD  
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>sp|Q53TS8|AL2SA\_HUMAN Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 11 protein OS=Homo sapiens GN=ALS2CR11 PE=1 SV=1

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MPKISLQHYANLFIKISINKAVKCTKMCSLLSKNDEKNTVIKFEVKYFSVQVPRRYDDK  
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YGNFGYGFSHQLKPLQKITEPSMFMNLAPPPERTDPVTKVITPQTVEYPAFLSPDLNVTV  
GTPAVQSSNQPSVVRLEKLQQQPRERLEKMKKEYRNLTWIDKANYLESILMPKLEHKDS  
EETNIDEASENTKSNHPPEELENIVGVDIPLVNEEAETTANELLDNDSEKGLTIPTLNQS  
DQDNSTADASKNDESTPSPTEVHSLCTISNQETIKAGRIPLGERQSESMPDRKMKNVFF  
PLEVKLKDNYPSILKADSSLSEVAFSPKEYNSPSFRPEYIEFKPKFQDCSDKFEDLHDMT  
SFTHLKKVKSRRLGKSSDDIHNHARHSARPYTAPEVNKQRESYSGKFTSRMVSSGLV  
HINDKTSDYEMHKMRPKKIKRGY

>sp|P30838|AL3A1\_HUMAN Aldehyde dehydrogenase, dimeric NADP-preferred OS=Homo sapiens GN=ALDH3A1 PE=1 SV=3

MSKISEAVKRARAASFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAY  
YEEVVYVLEEIEYMIQKLPEWAADEPVEKTPQTQQDELYIHSEPLGVVLVIGTWNYPFNL  
TIQPMVGAIAGNSVVLKPSSELSNMAILLATIIIPQYLDKDLYPVINGGVPETTELLKER  
FDHILYTGSTGVGKIIMTAAAKHLTPVTLELGGKSPCYVDKNCDLVACRRIAWGKFMNS  
GQTCVAPDYILCDPSIQNQIVEKLKSLKEFYGEDAKKSRDYGRISARHFQRMGLIEG

QKVAYGGTGDAATRYIAPTILTDVDPQSPVMQEEIFGPVLPIVCVRSLEEAIQFINQREK  
PLALYMFSSNDKVIKKMIAETSSGGVAANDVIVHITLHSLPFGGVGNSGMGSYHGKKSFE  
TFSHRRSCLVRPLMNDEGLKVRYPPSPAKMTQH

>sp|P49189|AL9A1\_HUMAN 4-trimethylaminobutyraldehyde dehydrogenase OS=Homo sapiens  
GN=ALDH9A1 PE=1 SV=3

MSTGTFFVVSQPLNRYGGARVEPADASGTEKAFEPATGRVIATFTCSGEKEVNLAQNAKA  
AFKIWSQKSGMERCILLEAARIIREREDEIATMECINNGKSIFEARLDIDISWQCLEY  
AGLAASMAHEHIQLPGGSFGYTRREPLGVCVGIGAWNYPFQIASWKSAPALACGNAMVFK  
PSPFTPVSAALLAEIYSEAGVPPGLFNVVQGAATGQFLCQHPDVAKVSFTGVSPTGMKI  
MEMSAKGIKPVTLELGGKSPLIIFSDCDMNNVKGALMANFLTQGGVCCNGTRVQKEI  
LDFKTEEVVKQTQRIKIGDPLEDTRMGPLINRPHLERVLGFVKVAKEQGAKVLCGGDIY  
VPEDPKLKDGYMRPCVLTNCRDDMTCVKEEIFGPVMSILSFDTEAEVLERANDTTFLA  
AGVFTRDIQRAHRVVAELQAGTCFINNYNVSVELPFGGYKKSFGRENGRVTIEYYSQ  
KTVCVEMGDVESAF

>sp|Q13686|ALKB1\_HUMAN DNA demethylase ALKBH1 OS=Homo sapiens GN=ALKBH1 PE=1 SV=2

MGKMAAAVGSVATLATEPGEDAFRKLFRFYRQSRPGTADLEGVIDFSAHAARGKGPGAQ  
KVIKSQQLNVSSVSEQNAYRAGLPVSKWQAYGLKGYPGFIFIPNPFPGYQWHWVKQCLK  
LYSQKPNVCNLDKHSKEETQDLWEQSKEFLRYKEATKRRPRSLEKLRWTVGYHYNWD  
SKKYSADHYTPFPSDLGFLSEQVAAACGFEDFRAEAGILNYYRLDSTLGIHVDRSELDHS  
KPLLSFSFGQSAIFLLGGLQRDEAPTAMFMHSGDIMIMSGFSRLNHAVPRVLPNPEGEG  
LPHCLEAPLPAVLPRDSMVEPCSMEWQVCASYLKTARVNMTVRQVLATDQNFPLEPIED  
EKRDISTEGFCHLDDQNSEVKRARINPDS

>sp|Q9UM73|ALK\_HUMAN ALK tyrosine kinase receptor OS=Homo sapiens GN=ALK PE=1 SV=3

MGAIGLLWLLPLLLSTAAGSGMGQTGRAGSPAAGPPLQPRELSYSRLQRKSLAVDFV  
PSLFRVYARDLLPPSSSELKAGRPEARGLALDCAPLLRLLGPAGVSWTAGSPAPAEA  
RTLRLVLRKGSVRKLRRKQLVLELGEEAILEGCVGPPGEAAVGLLQFNLSELFSSWIRQ  
GEGRLRIRLMPEKKASEVGREGRLSAAIRASQPRLLFQIFGTGHSSLESPTNMPSPSPDY  
FTWNLTWIMKDSFPFLSHRSRYGLECSFDFPCELEYSPLHDLRNQSWSWRRIPSEEASQ  
MDLLDGPGAERSKEMPRGSFLLNLSADSKHTILSPWMRSSSEHCTLAVSVHRHLQPSGR  
YIAQLLPHNEAAREILLMPTPGKHGWTVLQGRIGRPDNPFRVALEYISSGNRSLSAVDFF  
ALKNCSEGTSPGSKMALQSSFTCWNGTVLQLGQACDFHQDCAQGEDESQMCRKLPVGFYC  
NFEDGFCGWTQGTLSPHTPQWQVRTLKDARFQDHDHALLSTTDVPASESATVTSATFP  
APIKSSPCELRMSWLIRGVLRGNVSLVLVENKTGKEQGRMVHVAAYEGLSLWQWMVLPL  
LDVSDRFLQMVAVWGQGSRAIVAFDNISISLDCYLTIAGEDKILQNTAPKSRNLFERNP  
NKELKPGENSPTQPIFDPTVHWLFTTCGASGPHGPTQAQCNAYQNSNLSVEVGSEGPL  
KGIQIWKVPATDTYSISGYGAAGGKGKNTMMRSHGVSVLGIENLEKDDMLYILVGQQGE  
DACPSTNQLIQKVCIGENNVIEEIRVNRSVHEWAGGGGGGGGATYVFKMKDGVVPPLII  
AAGGGGRAYAKTDTFHPERLENNSSVLGLNGNSGAAGGGGGWNTSLLWAGKSLQEGA  
TGGHSCPQAMKKGWETRGFGGGGGGSSGGGGGGYIGGNAASNNDPEMDGEDGVSFIS  
PLGILYTPALKVMEGHGEVNIKHLYLNCSEVDECHMDPESHKVICFDHGTVLAEDGVS  
CIVSPTPEPHLPLSLILSVVTSALVAALVLAFCGIMIVYRRKHQELQAMQMELQSPEYKL  
SKLRTSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIRGLGHGAFGEVYEGQVSGMPN  
DPSPLQVAVKTLPEVCSEQDELDFLMEALIISKFNHNIVRCIGVSLQSLPRFILLELMA  
GGDLKSFLRETRPRPSQPSSLAMLDLLHVARDIACGCQYLEENHFHRDIAARNCLLTCP

GPGRVAKIGDFGMARDIYRASYRKGGCAMLVWKWPPEAFMEGIFTSKTDTSFGVLLW  
EIFSLGYMPYPSKSNQEVLEFVTSGGRMDPPKNCPPVYRIMTQCWQHQPEDRPNFAIIL  
ERIEYCTQDPDVINTALPIEYGPLVEEEEKVPVRPKDPEGVPPLLVSSQAKREEERSPAA  
PPPLPTSSGKAACKPTAAEISVRVPRGPAVEGGHVNMASFQSNPPSELHKVHGSRNKPT  
SLWNPTYGSWFTEKPTKKNPIAKKEPHDRGNLGLGSCTVPPNVATGRLPGASLLEPS  
SLTANMKEVPLFRLRHFP CGNVNNGYQQGLPLEAATAPGAGHYEDTILKSKNSMNQPGP

>sp|Q8N6M5|ALLC\_HUMAN Probable allantoicase OS=Homo sapiens GN=ALLC PE=2 SV=3

MADAPKEGRLTRFLDFTQLMDASESVGGKILFATDDFFAPAENLIKSDSPCFKEHEYTE  
FGKWMGDGWETRRKRIPGHDWCVLRLGIQGVIRGFDVDVSYFTGDYAPRVSIQAANLEEDK  
LPEIPERGRTRTGAATPEEFEAIAELKSDDWSYLVPMTELKPGNPASGHNYFLVNSQQRW  
THIRLNIFPDGGIARLRVFGTGQKDWATADPKEPADLVAIAFGGVCVGFSSNAKFGHPNNI  
IGVGGAKSMADGWETARRLDRPPILENDENGILLVPGCEWAVFRLAHPGVITRIEIDTKY  
FEGNAPDSCKVDGCILTTQEEEAIVIRQKWILPAHKWKPLLPVTKLSPNQSHLFDSLLEL  
QDVITHARLTIIVPDGGVSRLRLRGFPSSICLLRPREKPMLKFSVSFKANP

>sp|O95076|ALX3\_HUMAN Homeobox protein aristaless-like 3 OS=Homo sapiens GN=ALX3 PE=1  
SV=2

MDPEHCAPFRVGPAPGPYVASGDEPPGPQGTAAAPHLHPAPPRGPRLTRFPACGPLEPY  
LPEPAKPPAKYLQDLGPGPALNGGHFYEGPAEAEKTSKAASFPQLPLDCRGGPRDGPSN  
LQSGPGCLASLHPLSPGLPDSMELAKNKSCKRRNRRTTFSTFQLEELEKVFQKTHYPDV  
YAREQLALRTDLTEARVQVWFQNNRAKWRKRERYGKIQEGRNPFTAAYDISVLPRDTSHP  
QLQNSLWASPGSGSPGGPCLVSPEGIPSPCMSPYSHPHGVSAGFMGVPAPSAHPGIYSI  
HGFPTTLGGHSFEPSSDGDYKSPSLVSLRVKPEPPGLLNWTT

>sp|Q9UHK6|AMACR\_HUMAN Alpha-methylacyl-CoA racemase OS=Homo sapiens GN=AMACR PE=1 SV=2

MALQGISVVELSGLAPGPF CAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSVLDLKQP  
RGAAVLRRLLCKRSDVLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLA  
GHDINYALALSGVLSKIGRSGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTGKGQVI  
DANMVEGTAYLSSFLWKTQKLSLWEAPRGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQF  
YELLIKGLGLKSDLPNQMSMDWPEMKKFADVFAEKTKAEWCQIFDGTDACVTPVLT  
EEVVHHDHNKERGSFITSEEQDVSPRPAPLLNTPAIPSFKRDPFIGEHTEEILEEFGFS  
REEIYQLNSDKIIIESNKVKASL

>sp|Q9Y2J4|AMOL2\_HUMAN Angiomotin-like protein 2 OS=Homo sapiens GN=AMOTL2 PE=1 SV=3

MRTLEDSSGTVLHRLIQEQLRYGNLTETRTLLAIQQQALRGAGTGGTSPQASLEILAP  
EDSQVLQQATRQEPQGEHQGGENHLAENTLYRLCPQPSKGEELPTYEEAKAHSQYYAAQ  
QAGTRPHAGDRDPRGAPGGSRRQDEALREL RHGHVRSLSERLLQLSLERNGARAPSHMSS  
SHSFPQLARNQQGPPLRGPPAEGPESRGPPPQYPHVLAHETTTAVTDPRYRARGSPHFQ  
HAEVRILQAQVPPVFLQQQQQYQYLQQSQEHPPPPHPAALGHGPLSSLSPPAVEGPVSAQ  
ASSATSGSAHLAQMEAVLRENARLQRDNERLQRELESSAEKAGRIEKESEIQRLSEAHE  
SLTRASSKREALEKTMRNKMDSEMRRLQDFNRDLRERLESANRRLASKTQEAQAGSQDMV  
AKLLAQSYEQQQEQEKLEREMALLRGAIEDQRRRAELLEQALGNAQGRAARAEELRKKQ  
AYVEKVERLQQALGQLQAACEKREQLRLRLRTRLEQELKALRAQQRQAGAPGSSGSGGS  
PELSALRLSEQLREKEEQILALEADMTKWEQKYLEERAMRQFAMDAATAAAQRDTTLIR  
HSPQSPSSSFNEGLLTGGHRHQEMESRLKVLHAQILEKDAVIKVLQQRSRDPGKAIQG  
SLRPAKSVPSVFAAAAAGTQGWQLSSSERQTADAPARLTDRAPTEEPVVTAPPAHAK  
HGSRDGSTQTEGPPDSTSTCLPPEPDSLLGCSSSQRAASLDSVATSRVQDLSDMVEILI

>sp|P01160|ANF\_HUMAN Natriuretic peptides A OS=Homo sapiens GN=NPPA PE=1 SV=1

MSSFSTTTVSFLLLLAFQLLGQTRANPMYNAVSNADLMDFKNLLDHLEEKMPLEDEVVPP  
QVLSEPNEEAGAALSPLPEVPPWTGEVSPAQRDGGALGRGPWDSSDRSALLKSKLRALLT  
APRSLRRSSCFGGRMDRIGAQSGLGCNSFRYRR

>sp|O95841|ANG1\_HUMAN Angiopoietin-related protein 1 OS=Homo sapiens GN=ANGPT1 PE=2  
SV=1

MKTFTWTGLVLFLLVDTGHCRGGQFKIKKINQRRYPRATDGKEEAKKCAYTFLVPEQRI  
TGPICVNTKGQDASTIKDMITRMDLENLKDVLRSQKREIDVLQLVVDVDGNIVNEVKLLR  
KESRNMNSRVTLQYMLLHEIIRKRDNSLELSQLENKILNVTTEMLKMATRYRELEVKYA  
SLTDLVNNQSVMITLLEEQLRIFSRQDTHVSPPLVQVVPQHIPNSQQYTPGLLGNEIQ  
RDPGYPRDLMPPDLATSPTKSPFKIPPVTFINEGPFKDCQQAQAEAGHSVSGIYMIKPEN  
SNGPMQLWCENSLDPGGWTVIQKRTDGSVNNFRNWNENYKKGFGNIDGEYWLGLENIYMLS  
NQDNYKLLIELEDWSDKKVYAEYSSFRLEPESEFYRLRLGTYQGNAGDSMMWHNGKQFTT  
LDRDKMYAGNCAHFHKGGWYNACAHSNLNGVWYRGGHYRSKHQDIFWAEYRGGSYSL  
RAVQMMIKPID

>sp|Q6UXH0|ANGL8\_HUMAN Angiopoietin-like protein 8 OS=Homo sapiens GN=ANGPTL8 PE=1 SV=1

MPVPALCLLWALAMVTRPASAAPMGPELAQHEELTLLFHGTLQLGQALNGVYRTTEGRL  
TKARNSLGLYGRITIELLGQEVSRGRDAAQELRASLLETQMEEDILQLQAEATAEVLGEVA  
QAQKVLKRSVQRLEVQLRSAWLGPAYREFEVLKAHADKQSHILWALTGHVQRQRREMQAQ  
QHRLRQIQERLHTAALPA

>sp|Q15389|ANGP1\_HUMAN Angiopoietin-1 OS=Homo sapiens GN=ANGPT1 PE=1 SV=2

MTVFLSFAFLAAILTHIGCSNQRRSPENSGRRYNRIQHGGCAYTFILPEHDGNCRESTD  
QYNTNALQRDAPHVEPDFSSQKLQHLEHVMENYTQWLQKLENYIVENMKSEMAQIQNAV  
QNHTATMLEIGTSLSSQTAEQTRKLTDTVETQVLNQTSRLEIQLENSLSTYKLEKQLLQQ  
TNEILKIHEKNSLLEHKILEMEGKHKEELDTLKEEKENLQGLVTRQTYIIQELEKQLNRA  
TTNNSVLQKQLELMDTVHNLVNLCTKEGVLLKGGKREEKPFRCADVYQAGFNKSGIY  
TIYINNMEPEPKVFCNMVDVNGGWTVIQHREDGSLDFQRGWKEYKMGFGNPSGEYWLGN  
FIFAITSQRQYMLRIELMDWEGNRAYSQYDRFHIGNEKQNYRLYLKGHTGTAGKQSSIL  
HGADFSTKDADNDNCMKCALMLTGGWWFDACGPSNLNGMFYTAGQNHGKLNKIKWHYFK  
GPSYSLRSTTMMIRPLDF

>sp|Q8IWZ3|ANKH1\_HUMAN Ankyrin repeat and KH domain-containing protein 1 OS=Homo sapiens  
GN=ANKHD1 PE=1 SV=1

MLTDSGGGGSFEEDLDSVAPRSAPAGASEPPPPGGVGLGIRTVRLFGEAGPASGVGSSG  
GGGSGSGTGGDAALDFKLA AAVLRTGGGGASGSEDEVSEVESFILDQEDLDNPVLKT  
TSEIFLSSTAEGADLRTVDPETQARLEALLEAAIGKLSTADGKAFADPEVLRRLTSSVS  
CALDEAAAAALTRMKAENSHNAGQVDTRSLAEACSDGDVNAVRLKLLDEGRSVNEHTEGES  
LLCLACSAGGYELAQVLLAMHANVEDRGNGDITPLMAASSGGYLDIVKLLLLHDADVNS  
QSATGNTALTACAGGFVDIVKVLNNEGANIEDHNENGHTPLMEAASAGHVEVARVLLDH  
GAGINTHSNEFKESALTACYKGHLDMVRFLLEAGADQEHKTDHMTALMEACMDGHVEV  
ARLLDLSGAQVNMPADSFSPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAAR  
EGHEEMVALLLAQGANINAQTEETQETALTACCGGFSEVADFLIKAGADIELGCSTPLM  
EASQEGHLELVKYLASGANVHATTATGDTALTACENGHTDVADVLLQAGADLEHESEG  
GRTPLMKAARAGHLCTVQFLISKGANVNRATANNDHTTVVSLACAGGHLAVVELLLAHGAD  
PTHRLKDGSTMLIEAAKGGHTNVVSYLLDYPNNVLSVPTTDVSQLPPPSQDQSQVPRVPT

HTLAMVVPPEPDRTSQENSPALLGVQKGTSKQSSSLQVADQDLLPSFHPYQPLECIVE  
ETEGKLNELGQRISAIEKAQLKSLELIQGEPLNKDKIEELKKNREEQVQKKKKILKELQK  
VERQLQMKTTQQQFTKEYLETGQKQDTVSLHQQCSHRGVFPEGEQDGLPEDHFSLELPQVD  
TILFKDNDVDDEQQSPPSAEQIDFVPVQPLSSPQCNSDDLGSNGTNSLELQKVSGNQI  
VGQPQIAITGHDQGLLVQEPDGLMVATPAQTLTDTLDDLIAAVSTRVPTGSNSSSQTTEC  
LTPESCSQTTSNVASQSMPPVYPSVDIDAHTESNHDOTALACAGGHEELVSVLIARDAK  
IEHRDKKGFTPLILAATAGHVGVVEILLDKGGDIEAQSERTKDTPLSLACSGGRQEVVDL  
LLARGANKEHRNVSDYTPLSLAASGGYVNI IKILLNAGAEINSRTGSKLGISPLMLAAMN  
GHVPAVKLLLLDMGSDINAQIETNRNTALTLACFQGRAEVVSLLLDRKANVEHRAKTGLTP  
LMEAASGGYAEVGRVLLDKGADVNAAPPVPSSRDALTIAADKGHYKFCELLIHRGAHIDV  
RNKKGNTPLWLASNGGHFDVVQLLVQAGADVDAADNRKITPLMSAFRKGHVKVQYLVKE  
VNQFPSDIECMRYIATITDKELLKKCHQCVETIVKAKDQAAEANKNASILLKELDLEKS  
REESRKQALAAKREKRKEKRKKKKKEEQKRKQEEDEENKPKENSELPEDEDEEENDEDEVEQ  
EVPIEPPSATTTTTIGISATSATFTNVFGKKRANVVTTPSTNRKNKNKTKETPPTAHLI  
LPEQHMSLAQQKADKNKINGEPRGGGAGGNSDSNDLSTDCNSESSSGGKSQELNFMVDV  
NSSKYPSSLLHSQEEKTSTATSKTQTRLEGEVTPNSLSTSYKTVSLPLSSPNIKNLTSP  
KRGQKREEGWKEVRRSKKLSVPASVVSRIIMGRGCGNITAIQDVTGAHIDVDKQDKNGE  
RMITIRGGTESTRYAVQLINALIQDPAKELEDLIPKNHIRTASTKSIHANFSSGVGTTA  
ASSKNAFPLGAPTLVTSQATTLSTFQPAKLNKNVPTNVRSSFVSLPLAYPHPHFALLA  
AQTMQQIRHPRLPMAQFGGTFSPSPNTWGPFPVRPVNPGNTNSSPKHNNTSRLPNQNGTV  
LPSESAGLATASCPITVSSVVAASQQLCVTNTRTPSSVRKQLFACVPKTSPPATVISSVT  
STCSSLPSVSSAPITSGQAPTTLFPASTSQAQLSSQKMESFSAVPPTKEKVSTQDQPMAN  
LCTPSSTANSCSSSASNTPGAPETHPSSSPTPTSSNTQEEAQSSVSDLSMPMPFASNS  
EPAPLTLTSPRMVAADNQDTSNLPQLAVPAPRVSHRMQPRGSFYSMVNPATIHQDPQSIF  
VTNPVTLTPPQGPAAVQLSSAVNIMNGSQMHINPANKSLPPTFGPATLFNFHSSSLFDSS  
QVPANQGWGDGLSSRVATDASFTVQSAFLGNSVLGHLENMHPDNSKAPGRPPSQRVST  
SPVGLPSIDPSGSSPSSSSAPLASFSGIPGTRVFLQGPAPVGTPSFNRQHFSPHPWTSAS  
NSSTSAPPTLGQPKGVSASQDRKIPPIGTERLARIRQGGVAQAPAGTSFVAPVGHSGI  
WSFGVNAVSEGLSGWSQSMGNHMPMHQQLSDPSTFSQHQPIMERDDSGMVAPSNIFHQPMA  
SGFVDFSKGLPISMYGGTIIPSHPQLADVPGGPLFNGLHNPDAWNPMIKVIQNSTECTD  
AQQIWPGTWAPHIGNMHLKYVN

>sp|Q9Y2G4|ANKR6\_HUMAN Ankyrin repeat domain-containing protein 6 OS=Homo sapiens  
GN=ANKRD6 PE=2 SV=3

MSQQDAVAALSERLLVAAYKGQTEENVVQLINKGARVAVTKHGRTPLHLAANKGHLPVVQI  
LLKAGCDLDVQDDGDQALHRATVVGNTEIIAALIHEGCALDRQDKDGNTALHEASWHGF  
SQSAKLLIKAGANVLAKNKAGNTALHLACQNSHSQSTRVLLLAGSRADLKNNAGDTCLHV  
AARYNHLSIIRLLLLAFCSVHEKNQAGDTALHVAALNHKKVAKILLEAGADTTIVNNAG  
QTPLETARYHNNPEVALLLTAKAPQVLRFSRGRSLRKKRERLKEERRAQSVPRDEVAQSKG  
SVSAGDTPSSEQAVARKEEAREEFLSASPEPRAKDDRRRKSRLPKVSASFSDPTPPADQQPG  
HQKNLHAHNHPKKNRHRCSPPPPHEFRAYQLYTLYRGKDGMVQAPINGCRCEPLINK  
LENQLEATVEEIKAEELGSGVQDKMNTKLGQMENKTQHQMVRVLDKLMVERLSAERTECLNRL  
QQHSDTEKHEGEKRQISLVDELKTWCMLKIQNLEQKLSGDSRACRAKSTPSTCESSTGVD  
QLVVTAGPAAASDSSPPVVRPEKALNSTATQRLQQELSSSDCTGSRLRNVKVQTALLPM  
NEAARSDQQAGPCVNRGTQTKKSGKSGPTRHRAQQPAASSTCGQPPPATGSEQTGPHIRD

TSQALELTQYFFEAVSTQMEKWYERKIEEARSQANQKAQQDKATLKEHIKSLEEELAKLR  
TRVQKEN

>sp|Q92527|ANKR7\_HUMAN Ankyrin repeat domain-containing protein 7 OS=Homo sapiens  
GN=ANKRD7 PE=2 SV=3

MNKLFSFWKRKNETRSGGYNLREKDLKKLHRAASVGDLLKLKEYLQIKKYDVNMQDKKYR  
TPLHLACANGHTDVVLFLEQQCKINVRDSENKSPLIKAVQCQNEDCATILLNFGADPDL  
RDIRYNTVLHYAVCGQSLSLVEKLLLEYEADLEAKNKDGYTPLLVAVINNNPKMVKFLEK  
GADVNASDNYQRTALILAVSGEPPCLVKLLLQQGVELCYEGIVDSQLRNMFISMVLLHRY  
PQFTASHGKKKHAK

>sp|A9YTQ3|AHRR\_HUMAN Aryl hydrocarbon receptor repressor OS=Homo sapiens GN=AHRR PE=1  
SV=3

MPRTMIPPGECTYAGRKRRRPLQKQRPVGAEKSNPSKRHRDRLNAELDHLASLLPFPPD  
IISKLDKLSVLRLSVSYLRVKSFFQVVQEQQSSRQPAAGAPSPGDSCLAGSAVLEGRLLL  
ESLNGFALVVSAGTIFYASATIVDYLGFHQTDVMHQNIYDYIHVDDRQDFCRQLHWAMD  
PPQVVFQPPPLETGDDAILGRLLRAQEWGTGTPTEYSAFLTRCFICRVRCLLDSTSGFL  
TMQFQGLKFLFGQKKKAPSGAMLPRLSLFCIAAPVLLPSAAEMKMRSALLRAKPRADT  
AATADAKVKATTSCESELHGKPNYSAGRSSRESGVLVLRQTDAGRWAQVPARAPCLCL  
RGGPDLVLDPKGGSGDREEEQHRMLSASGVTGRRETPGPTKPLPWTAGKHSEDGARPR  
QPSKNDPPSLRPMRGSCPCPCVQGTFRNSPISHPPSPSPSAYSSRTSRPMDVGEDQV  
HPPLCHFPQRSLLQHLQPQGAQRFATRGYPMEDMKLQGVPMPPGDLGPTLLLDVSIKME  
KDSGCEGAADGCVPSQVWLGASDRSHPATFPTRMHLKTEPDSRQQVYISHLGHGVRGAQP  
HGRATAGRSRELTPFHAPHCACLEPTDGLPQSEPPHQLCARGREQSCTCRAAEAAPVVK  
REPLDSPQWATHSQGMVPGMLPKSALATLVPPQASGCTFLP

>sp|Q9NZD4|AHSP\_HUMAN Alpha-hemoglobin-stabilizing protein OS=Homo sapiens GN=AHSP PE=1  
SV=1

MALLKANKDLISAGLKEFSVLLNQVFNDPLVSEEDMVTVVEDWMNFYINYRQQTGEP  
QERDKALQELRQELNTLANPFLAKYRDFLKSHELPSHPPSS

>sp|Q96BJ3|AIDA\_HUMAN Axin interactor, dorsalization-associated protein OS=Homo sapiens  
GN=AIDA PE=1 SV=1

MSEVTRSLLRWGAFFRRGADFDSWGQLVEAIDEYQILARHLQKEAQAQHNNSEFTEEQK  
KTIGKIATCLELRSALQSTQSQEEFKLEDLKKLEPILKNILTYNKEFPFDVQVPLRRI  
LAPGEEENLEFEDEEEGGAGAGSPDSFPARVPGTLLPRLPSEPGMTLLTIRIEKIGLKD  
AGQCIDPYITVSVKDLNGIDLTPVQDTPVASRKEDTYVHFNVDELQKHVEKLTGAAIF  
FEFKHYKPKRFTSTKCAFMEMDEIKGPIVIELYKPTDFKRKKLQLLTKKPLYLHLH  
QTLHKE

>sp|P51857|AK1D1\_HUMAN 3-oxo-5-beta-steroid 4-dehydrogenase OS=Homo sapiens GN=AKR1D1  
PE=1 SV=1

MDLSAASHRIPLSDGNSIPIIGLGTSEPKSTPKGACATSVKVAIDTGYRHIDGAYIYQN  
EHVEGEAIREKIAEGKVRREDIFYCGKLWATNHVPEMVRPTLERTLRVLQLDYVDLYIE  
VPMFAFKPGDEIYPRDENGKWLHYKSNLCATWEAMEACKDAGLVKSLGVSNNRNRQLELIL  
NKPGLKHKPVSNQVECHPYFTQPKLLKFCQQHDIVITAYSPLGTSRNPIWVNVSSPPLK  
DALLNSLGKRYNKAAQIVLRFNIQRGVVVPKSFNLERIKENFQIFDFSLTEEEMKDIE  
ALNKNVRFVELLMWRDHPEYPFHDEY

>sp|Q86UN6|AKA28\_HUMAN A-kinase anchor protein 14 OS=Homo sapiens GN=AKAP14 PE=1 SV=1

MSETQNSTSQKAMEDNKAASQTMPNTQDKNYEDELQVALALVEDVINYAVKIVEEERN  
PLKNIKWMTHGEFTVEKGLKQIDEYFSKCVSKCWAHGVFVERKDLIHSFLYIYVHWS  
ISTADLPVARISAGTYFTMKVSKTKPPDAPIVVSYVGDHQALVHRPGMVRFRENWQKNLT  
DAKYSFMESFPFLFNRV

>sp|Q9Y243|AKT3\_HUMAN RAC-gamma serine/threonine-protein kinase OS=Homo sapiens GN=AKT3  
PE=1 SV=1

MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVLDPYPLNNSVAKCQ  
LMKTERPKPNTFIIRCLQWTTVIERTFHVDTPEREETEAQAVADRLQRQEEERMNCS  
PTSQIDNIGEEEMDASTTHHKRKTMNDFDYLKLLGKGTGKIVILREKASGKYAMKILK  
KEVIAKDEVAHTLTESRVLKNTRHPFLTSLKYSFQTKDRLCFVMEYVNGGELFFHLSRE  
RVFSEDRTRFYGAIEVSALDYLHSGKIVYRDLKLENMLDKDGHIKITDFGLCKEGITDA  
ATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVYEMMCGRLPFYNQDHEKLFELILM  
EDIKFPRTLSSDAKSLLSGLLIKDPNKRLLGGPDDAKEIMRHSFFSGVNWQDVYDKKLVP  
PFKPQVTSETDTRYFDEEFTAQTITITPPEKYDEDGMDCMNERRPHFPQFSYSASGRE

>sp|Q8N8R7|AL14E\_HUMAN ARL14 effector protein OS=Homo sapiens GN=ARL14EP PE=1 SV=1

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VKIYIDRFEDLQKSCCDPFNIHKKLAKKNLHVIDLDDATFLSAKFGRLVPGWKLCPKCT  
QIINGSVDVDTEDRQKRKPESDGRKAKALRSLQFTNPGRQTEFAPETGKREKRRLTKNAT  
AGSDRQVIPAKSKVYDSQGLLIFSGMDLDCDLEDCLGCFYACPACGSTKCGAECRCDRK  
WLYEQIEIEGGEIHNKHAG

>sp|094788|AL1A2\_HUMAN Retinal dehydrogenase 2 OS=Homo sapiens GN=ALDH1A2 PE=1 SV=3

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ATGEQVCEVQEADKADIDKAVQAARLAFSLGSVWRRMDASERGRLLDKLADLVERDRAVL  
ATMESLNGGKPFLLQAFYVDLQGVIKTFRYAGWADKIHGMTIPVDGDYFTFTRHEPIGVC  
GQIIPWNFPLLMFAWKIAPALCCGNTVVIKPAEQTPLSALYMGALIKEAGFPPGVINILP  
GYGPTAGAAIASHIGIDKIAFTGSTEVGKLIQEAAGRSNLKRVTELGKSPNIIFADAD  
LDYAVEQAHQGVFFNQGCCTAGSRIFVEESIYEEFVRRSVERAKRRVVGSPFDPTEQG  
PQIDKKQYNKILELIQSGVAEGAKLECGGKGLGRKGFFIEPTVFSNVTDMMRIAKEEIFG  
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SPFGGFKMSGNGREMGEFGLREYSEVKTVTVKIPQKNS

>sp|P47895|AL1A3\_HUMAN Aldehyde dehydrogenase family 1 member A3 OS=Homo sapiens  
GN=ALDH1A3 PE=1 SV=2

MATANGAVENGQPDKPPALPRPIRNLEVKFTKIFINNEWHESKSGKKFATCNPSTREQI  
CEVEEGDKPDVKAVEAAQVAFQRGSPWRRLDALSRGRLHQLADLVERDRATLAAETM  
DTGKPFLLHAFFIDLEGCIRTLRYFAGWADKIQGKTIPTDDNVVCFTRHEPIGVCGAITPW  
NFPLMLVWKLAPALCCGNTMVLKPAEQTPLTALYLGSLIKEAGFPPGVNIVPGFGPTV  
GAAISSHPQINKIAFTGSTEVGKLVEAASRSNLKRVTELGKNPCIVCADADLDLAVE  
CAHQGVFFNQGCCTAASRVFVEEQVYSEFVRRSVEYAKKRPVGDPDFVKTEQGPQIDQK  
QFDKILELIESGKKEGAKLECGGSAMEDKGLFIKPTVFSEVTDNMRIAKEEIFGPVQPIL  
KFKSIEEVIKRANSTDYGLTAAVFTKNLDKALKLASALES GTVWINCYNALYAQAPFGGF  
KMSGNGRELGEYALAEYTEVKTVTIKLGDKNP

>sp|Q96Q35|AL2SB\_HUMAN Amyotrophic lateral sclerosis 2 chromosomal region candidate gene  
12 protein OS=Homo sapiens GN=ALS2CR12 PE=1 SV=2

MYPNPLIYCTCWDPNLGPRLIKTPQLPRKNSTGSSKLTPLVPAPKNHNYLQPTKPVVS



PKMKIHSARQEETNKSFYEVINVSPGYQLVRNREQISVTLGDEMFDKRRWESEIPDKGR  
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HEAELENNYKAALAEKLAQEKLEEMGKEYKYLKNMFRTYQDSIYDEMEEKWSKQK  
AKWKDEKFERENILLQKKKMTKKFEMESGEEDKKINESCSAVFENFIQEKEELLKQH  
SDTLQLEELRKTKEVPWRRDQINRHWDVLQQLLLMQVMQEELHAQALILESNTNLYYT  
QLELQKEKAIVGNLEKMLQTKFAETEEKYKHTIQILTEENIHLKQKIISKNEEICEGCSG  
RLASITVSKDDSDTVQDGSKKGQES

>sp|P30038|AL4A1\_HUMAN Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial  
OS=Homo sapiens GN=ALDH4A1 PE=1 SV=3

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MEAI PCVVGD EEWTS D VQYQV S P F N H G H K V A K F C Y A D K S L L N K A I E A A L A A R K E W D L K P  
IADRAQIFLKAADMLSGPRRAEILAKTMVGQKGTVIQAEIDAAAELIDFFRFNAKYAVEL  
EGQQPISVPPSTNSTVYRGLEGFVA AISPFNFTAIGGNLAGAPALMGNVVLWKPSDTAML  
ASYAVYRILREAGLPPNIIQFVPADGPLFGDTVTSSEHLCGINFTGSVPTFKHLWKQVAQ  
NLDRFHTFPRLAGECGGNFHFVHRSADVSVSGTLRSAFEYGGQKCSACSRLYVPHSL  
WPQIKGRLL EEHSRIKVGDP AEDFGTFFSAVIDAKSFARIKKWLEHARSSPSLTILAGGK  
CDDSVGYFVEPCIVESKDPQEPIMKEEIFGPVLSVYVYPDDKYKETLQLVDSTTSYGLTG  
AVFSQDKDVVQEATKVL RNAAGNFYINDKSTGSIVGQQPFGGARASGTNDKPGGPHYILR  
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>sp|Q9H2A2|AL8A1\_HUMAN Aldehyde dehydrogenase family 8 member A1 OS=Homo sapiens  
GN=ALDH8A1 PE=1 SV=1

MAGTNALLMLENFIDGKFLPCSSYIDSYPSTGEVYCRVPNSGKDEIEAAVKAAREAFPS  
WSSRSPQERSVLNQVADLLEQSL EEFQAESKDQGKTLALARTMDIPRSVQNFRFFASS  
SLHHTSECTQMDHLGCMHYTVRAPVG VAGLISPWNLPYLLTWKIAPAMAAGNTVIAKPS  
ELTSVTAWMLCKLLDKAGVPPGVVNI VFGTGPRVGEALVSHPEVPLISFTGSQPTAERIT  
QLSAPHCKKLSLELGKNPAIIFEDANLDECIPATVRSSFANQGEICLCTSRIFVQKSIY  
SEFLKRFEATRKKWVGIPSDPLVSIGALISKAHLEKVRSYVKRALAEGAQIWCGEVVDK  
LSLPARNQAGYFMLPTVITDIKDESCMTEEIFGPVTCVVPFDSEEEVIERANNVKYGLA  
ATVWSSNVGRVHRVAKKLQSGLVWTCWLIRELNLPFGGMKSSGIGREGAKDSYDFFTEI  
KTITVKH

>sp|P04075|ALDOA\_HUMAN Fructose-bisphosphate aldolase A OS=Homo sapiens GN=ALDOA PE=1  
SV=2

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QLLLTADDRVNPCIGGVILFHETLYQKADDGRFPFQVIKSKGGVVGIKVDKGVVPLAGTN  
GETTTQGLDGLSERCAQYKKDGADFAKWRCVLKIGEHTPSALAIMENANVLARYASICQQ  
NGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHIYLEGTLLKPNMVT PGHAC  
TQKFSHEEIAMATVTALRRTPPAVTGITFLSGGQSEEEASINLNAINKCPLLKPWALTF  
SYGRALQASALKAWGGKKENLAAQEEYVKRALANSLACQGKYTPSGQAGAAASESLFVS  
NHAY

>sp|P09972|ALDOC\_HUMAN Fructose-bisphosphate aldolase C OS=Homo sapiens GN=ALDOC PE=1  
SV=2

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QVLFSADDRVKKCIGGVIFFHETLYQKDDNGVPFVRTIQDKGIVVGIKVDKGVVPLAGTD  
GETTTQGLDGLSERCAQYKKDGADFAKWRCVLKISERTPSALAI LENANVLARYASICQQ

NGIVPIVEPEILPDGDHDLKRCQVYTEKVLAAVYKALSDHHVYLEGTLLKPNMVT PGHAC  
PIKYTP EEIAMATVTALRRTVPPAVPGVTFLSGGQSEEEASFNLNAINRCPLRPWALTF  
SYGRALQASALNAWRGQRDNAGAATEEFIKRAEVNGLAAQKYEGSGEDGGAAAQSLYIA  
NHAY

>sp|P84996|ALEX\_HUMAN Protein ALEX OS=Homo sapiens GN=GNAS PE=1 SV=1

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TLLQEAQVLQGSPELLPRSPKPSGLQRLAPEEATALPLRRLCHLSLMEKDLGTTAHPRGF  
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GHSQPIPTPGQPLPPQPIPTPGRPLTPQPIPTPGRPLTPQPIQMPGRPLRLPPPLRLLRP  
GQMSPQLRQTQGLPLPQPLLPGQPKSAGRPLQPLPPGPDARSISDPPAPRSRLPIRLL  
RGLLARLPGGASPRAAAAAACTTMKGWPAATMTPAETSPTMGPPDASAGFSIGEIAAAES  
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RNAVSSSTNNSRTKRWATCVRTACCF

>sp|Q9H161|ALX4\_HUMAN Homeobox protein aristaless-like 4 OS=Homo sapiens GN=ALX4 PE=1  
SV=2

MNAETCVSYCESPAAAMDAYYSPVVSQREGSSPFRAFPGGDKFGTTFLSAAAKAQFGDA  
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HLYLQRGACKTPPDGSLKLQEGSSGHSALQVPCYAKESSLGEPELPPDSDTVGMDSSYL  
SVKEAGVKGPQDRASSDLPSPLEKADSESNKGKKRRNRFTTSYQLEEEKVFQKTHYPD  
VYAREQLAMRTDLTEARVQVWFQNRRAKWRKRERFGQMQQVTRTHFSTAYELPLLTRAENY  
AQIQNPSWLGNNGAASPVPACVPCDPVPACMSPHAHPPGSGASSVTDFLSVSGAGSHVG  
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>sp|P19021|AMD\_HUMAN Peptidyl-glycine alpha-amidating monooxygenase OS=Homo sapiens  
GN=PAM PE=1 SV=2

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CDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGETGSKYFVLQVHYGDISAFRDNNKD  
CSGVSLLHLTRLQPQLIAGMYLMSVDTVIPAGEKVNSDISCHYKNYPMHVFAIRVHTHH  
LGKVVSGYRVRNGQWTLIGRQSPQLPQAFYPVGHVPDVSFGDLLAARCVFTGEGRTEATH  
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>sp|P01019|ANGT\_HUMAN Angiotensinogen OS=Homo sapiens GN=AGT PE=1 SV=1  
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LSALQAVQGLLVAQGRADSQAQLLLSTVVGVTAPGLHLKQPFVQGLALYTPVVLPRSLD  
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PLSTA

>sp|P16157|ANK1\_HUMAN Ankyrin-1 OS=Homo sapiens GN=ANK1 PE=1 SV=3  
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VVLLHKEIILETTTKKGNTALHIAALAGQDEVVRELVNYGANVNAQSQKGFTPLYMAAQ  
ENHLEVVKFLLENGANQNVATEDGFTPLAVALQQGHENNVVAHLINYGTGKGVRLPALHIA  
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>sp|Q01484|ANK2\_HUMAN Ankyrin-2 OS=Homo sapiens GN=ANK2 PE=1 SV=4

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AHYGNVNVATLLLNRGAAVDFTARNGITPLHVASKRGNTNMVKLLDRGGQIDAKTRDGL  
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>sp|Q96LA8|ANM6\_HUMAN Protein arginine N-methyltransferase 6 OS=Homo sapiens GN=PRMT6  
PE=1 SV=1

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IADRVRTDAYRLGILRNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEASAIWQQA  
REVVRFNGL EDRVHVLPGPVETVELPEQVDAIVSEWMGYGLLHESMLSSVLHARTKWLKE  
GGLLLPASAELFIAPISDQMLEWRLGFW SQVKQHYGVDMSCLEGFATRCLMGHSEIVVQG  
LSGEDVLARPQRFAQLELSRAGLEQELEAGVGGRFCSCYGSAPMHGFAIWFQVTFPGGE  
SEKPLVLSTSPFHPATHWKQALLYLN EPVQVEQD TDVSGEITLLPSRDNPRRLRVLLRYK  
VGDQEEKTKDFAMED

>sp|Q9NVM4|ANM7\_HUMAN Protein arginine N-methyltransferase 7 OS=Homo sapiens GN=PRMT7  
PE=1 SV=1

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KHSTEVTVGPEGDMPCRANILVTELFDELIGEGALPSYEHHRHLVEENCEAVPHRATV  
YAQLVESGRMWSWNKLFPIHVQTSLGEQVIVPPVDVESC PGAPSVCDIQLNQVSPADFTV  
LSDVLPMSIDFSKQVSSSAACHSRRFEPLTSGRAQVVLSSWWDIEMDPEGKIKCTMAPFW  
AHSDPEEMQWRDHWMQCVYFLPQE EPVVQGSALYLV AHDDYCVWYSLQRTSPEKNERVR  
QMRPVCDCAHLLWNRPRFGEINDQDRTDRYVQALRTVLKPD SVCLCVSDGSLLSVLAHH  
LGVEQVFTV ESSAASHKLLRKIFKANHLEDKINIIEKRPELLTNEDLQGRKVSLLLGEPP  
FTTSLLPWHNLYFWYVRTAVDQHLGPGAMVMPQAASLHAVVVEFRDLWRIRSPCGDCEGF  
DVHIMDDMIKRALDFRESREAEPHPLWEYPCRSLSEPWQILTDFDQQPVPLQLPLCAEGTV  
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>sp|Q6VUC0|AP2E\_HUMAN Transcription factor AP-2-epsilon OS=Homo sapiens GN=TFAP2E PE=2 SV=1

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ARALGLDPRRDYATAVPRLLHGLADGAHGLADAPLGLPLGLAAAPGLEDLQAMDEPGMSLL  
DQSVIKKVPIPSKASSLSALS LAKDSL VGGITNPGEVFCVPGRLSLLSSTSKYKVTVGE  
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QDRSPLGNSRPALILEPGVQSCLTHFSLITHGFGGPAICAALTAFQNYLLES LKGLDKMF  
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>sp|O14617|AP3D1\_HUMAN AP-3 complex subunit delta-1 OS=Homo sapiens GN=AP3D1 PE=1 SV=1

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LKGMELSVLDSL NARMARPGSSVHDGVPVPFQLPPGVSNEAQYVFTIQSIVMAQKLKGT  
LSFIAKNDEGATHEKLD FRLHFSCSSYLITPCYSDAFAKLLESGDLSMSSIKVDGIRMS  
FQNLLAKICFH HHFSVVERVDS CASMYSRSIQGHHVCLLVKGENSVSDGKCSDSTLLS  
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>sp|Q9Y587|AP4S1\_HUMAN AP-4 complex subunit sigma-1 OS=Homo sapiens GN=AP4S1 PE=2 SV=1

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GCIVETNRARILAPLLILDKMSES

>sp|Q9UJX5|APC4\_HUMAN Anaphase-promoting complex subunit 4 OS=Homo sapiens GN=ANAPC4 PE=1 SV=2

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ESSVLTSFYNAEDES NLLL PKLPTLPKNYSNTSKIFSEENSDEI IKLLGDVRLN IILVLGG  
SSGFIELYAYGMFKIARVTGIAGTCLALCLSSDLKSLSVVTEVSTNGASEVS YFQLETNL  
LYSFLPEVTRMARKFTHISALLQYINLSLTCMCEAWEEILMQMDSRLTKFVQEKN TTSV  
QDEFMHLLLWGKASAE LQTLLMNQLTVKGLKKLGQSI ESSYSSIQKLVISHLQSGSESLL

YHLSSELKGMASWKQKYEPLGLDAAGIEEAITAVGSFILKANELLQVIDSSMKNFKAFFRW  
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DEDDDLVSPNTEGNQWYDFLQNSSHLKESPLLFPYYPRKSLHFVKRRMENIIDQCLQKP  
ADVIGKSMNQAICIPLYRDRSEDSTRRLFKFPFLWNNKTSNLHYLLFTILEDSELYKMC  
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>sp|P25054|APC\_HUMAN Adenomatous polyposis coli protein OS=Homo sapiens GN=APC PE=1 SV=2

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QTMTRRQLEYEARQIRVAMEEQLGTCQDMEKRAQRRIARIQQIEKDILRIRQLLQSQAT  
EAERSSQNKHETGSHDAERQNEGQGVGEINMATSGNGQGSTTRMDHETASVLSSSSTHSA  
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QEDRSSGSTTELHCVTDERNALRRSSAAHTSNTYNFTKSENSNR TC SMPYAKLEYKRSS  
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STDDKHLKFQPHFGQECVSPYRSRGANGSETNRVGSNHGINQVNSQLCQEDDYEDDKP  
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SSGQSSKTEHMSSSENTSTPSSNAKRQNQLHPSSAQSRSGQPQKAATCKVSSINQETIQ  
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PPPQTAQTKREV PKNKAPTA EKRESGPKQAAVNAAVQRVQVLPDADTLLHFATESTPDGF  
SCSSSLSALS LDEPFIQKDVELRIMPPVQENDNGNETESEQPKESNENQEKEAEKTIDSE  
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NKENEP IKETEPDQSQGEPSK PQASGYAPKSFHVEDTPVCF SRNSSLSLSDIDEDLLQ  
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QAKQNVNGSVPMRVTGLENRLNSFIQVDAPDQKGTEIKPGQNNPVPVSETNESSIVERT  
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>sp|Q9BZZ5|API5\_HUMAN Apoptosis inhibitor 5 OS=Homo sapiens GN=API5 PE=1 SV=3

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LLSIFKMDAKGTLGGLFSQILQGEDIVRERAIKFLSTKLKTLPEVLTKVEEELILTESK  
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CTRQAVPLFSKNVHSTRFVTFCEQVLPNLGTLTTPVEGLDIQLEVLKLLAEMSSFCGDM  
EKLETNLRKLFDKLLEYMPLPPEEAENGENAGNEEPKLQFSYVECLLYSFHQLGRKLPDF  
LTAKLNAEKLKDFKIRLQYFARGLQVYIRQLRLALQGKTGEALKTEENKIKVVALKITNN  
INVLIKDLFHIPPSYKSTVTLWSKPVQKVEIGQKRASEDTTSGSPPKKSSAGPKRDARQI  
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>sp|P51693|APLP1\_HUMAN Amyloid-like protein 1 OS=Homo sapiens GN=APLP1 PE=1 SV=3

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GGSRSRGSCAHPHHQVVPFRCLPGEFVSEALLVPEGCRFLHQERMDQCESSTRRHQEAQEA  
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PGEISEHEGFLRAKMDLEERRMRQINEVMREWAMADNQSKNLPKADRQALNEHFQSILQT  
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QKEQRHTLRHYQHVAVDPEKAQQMRQVHHTLQVIEERVNQSLGLLDQNPFLAQLRPQ  
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>sp|Q9HDC9|APMAP\_HUMAN Adipocyte plasma membrane-associated protein OS=Homo sapiens  
GN=APMAP PE=1 SV=2

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VVKLENGEIIETIARFGSGPCKTRDDEPVCGRPLGIRAGPNTLFLVADAYKGLFEVNPWKR  
EVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRDYLLLVMEGTDDGRL  
EYDVTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVVVSGLMKGGADLFVEN  
MPGFPDNIIRPSSGGYVGMSTIRPNPGFSLDFLSERPWIKRMIFKLSQETVMKFVPR  
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>sp|P02647|APOA1\_HUMAN Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1

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VQPYLDDFQKKWQEEMELYRQKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHV  
DALRTHLAPYSDELQRQLAARLEALKENGGARLAEYHAKATEHLSTLSEKAKPALEDLRQ  
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>sp|P06727|APOA4\_HUMAN Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

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SQKIGDNLRELQQRLEPYADQLRTQVNTQAEQLRRQLTPYAQRMERVLRENADSLQASLR  
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>sp|P08519|APOA\_HUMAN Apolipoprotein(a) OS=Homo sapiens GN=LPA PE=1 SV=1

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VPSLEAPSEQAPTEQRPGVQECYHGNGQSYRGTYSTTVTGRTCQAWSSMTPHSHSRTPEY  
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>sp|Q0VD83|APOBR\_HUMAN Apolipoprotein B receptor OS=Homo sapiens GN=APOBR PE=1 SV=2

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>sp|P04114|APOB\_HUMAN Apolipoprotein B-100 OS=Homo sapiens GN=APOB PE=1 SV=2

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IIL

>sp|P02654|APOC1\_HUMAN Apolipoprotein C-I OS=Homo sapiens GN=APOC1 PE=1 SV=1  
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>sp|Q9BWW9|APOL5\_HUMAN Apolipoprotein L5 OS=Homo sapiens GN=APOL5 PE=2 SV=1  
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>sp|Q96ILO|APOPT1\_HUMAN Apoptogenic protein 1, mitochondrial OS=Homo sapiens GN=APOPT1  
PE=2 SV=3  
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>sp|Q7Z2E3|APTX\_HUMAN Aprataxin OS=Homo sapiens GN=APTX PE=1 SV=2  
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>sp|Q86TW2|ADCK1\_HUMAN Uncharacterized aarF domain-containing protein kinase 1 OS=Homo  
sapiens GN=ADCK1 PE=2 SV=2  
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TLKVLHSQAPQSSMQEIRQVIREDLGKEI HDLFQSFD DTP LGTASLAQVHKAVLHDGRTV  
AVKVQHPKVRAQSSKDILLMEVLVLAVKQLFPEFEFMWLVDEAKKNLPLELDFLNEGRNA

EKVSQMLRHFDLKVPRIHWDLSTERVLLMEFVDGGQVNDRDYMERKIDVNEISRHLGK  
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>sp|P51828|ADCY7\_HUMAN Adenylate cyclase type 7 OS=Homo sapiens GN=ADCY7 PE=2 SV=1

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IGVMVEFSIALMSKLDGINRHSFNSFRLRVGINHGPIAGVIGARKPQYDIWGNTVNVAS  
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>sp|O60503|ADCY9\_HUMAN Adenylate cyclase type 9 OS=Homo sapiens GN=ADCY9 PE=1 SV=4

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CYRVLNELIGDFDELLSKPDYSSIEKIKTIGATYMAASGLNTAQAQDGSHPQEHLQILFE

FAKEMMRVDDFNNMLWFNFKLRVGFNHGPLTAGVIGTTKLLYDIWGDTVNIASRMDTT  
GVECRIQVSEESYRVLSKMGYDFDYRGTNVNKGKGQMKTYLYPKCTDHRVIPQHQLSISP  
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>sp|P08319|ADH4\_HUMAN Alcohol dehydrogenase 4 OS=Homo sapiens GN=ADH4 PE=1 SV=5

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SPASDQQLMEDKTSRFTCKGKPVYHFFGTSTFSQYTVVSDINLAKIDDDANLERVCLLGC  
GFSTGYGAAINNAKVTGPGSTCAVFGGLGGVGLSAVMGCKAAGASRIIGIDINSEKFKAKA  
LGATDCLNPRDLHKPIQEVIIELTKGGVDFALDCAGGSETMKAALDCTTAGWGSCFTIGV  
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ISEAFDLMNQGKSVRTILIF

>sp|Q9Y2D8|ADIP\_HUMAN Afadin- and alpha-actinin-binding protein OS=Homo sapiens GN=SSX2IP  
PE=1 SV=3

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NIEQSI SYLDQELTTFGFPSLYEESKGGKETKRELNIVAVLNCMNELLVLQRKNLLAQENV  
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NMTTFDHNQSENKLFSAFSGSSDWDNLIVHSRQPQKKPHSVSNGSPVCMSKLTSLPAS  
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>sp|Q6ULP2|AFTIN\_HUMAN Aftiphilin OS=Homo sapiens GN=AFTPH PE=1 SV=2

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protein 14 OS=Homo sapiens GN=AGAP14P PE=5 SV=2

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>sp|P52594|AGFG1\_HUMAN Arf-GAP domain and FG repeat-containing protein 1 OS=Homo sapiens  
GN=AGFG1 PE=1 SV=2

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GGDGVKVP GIDATTKLNVGAPDVTLRGPSLQGD LAVSGDIKCPKVS VGAPDLSLEASEGS  
IKLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGPVGDVNLKGPRISAPNVDFNLEGPK  
VKGSLGATGEIKGPTVGGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISG  
PEIKGGLKGSEVGFHGAAPDISVKGPAFNMA SPESDFGINLKGPVKIKGGADVSGGVSAPD  
ISLGEHLSVKGSGGEWKGPQVSSALNLDTSKFAGGLHFGSPKVEGGVKGGQIGLQAPGL  
SVSGPQGHLESGSGKVTFPKMKIPKFTFSGRELVGREMGVDVHFPKAEASIQAGAGDGEW  
EESEVKLKKSKIKMPKFNFSKPKGKGVTGSPEASISGSKGDLKSSKASLSLEGEAEAE

ASSPKGKFSLFKSKKPRHRSNSFSDEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKL  
KFGTFGGLGSKSKGHYEVTGSDDDETGKLQSGSVSLASKKSRLSSSSNSDGNKVG IQLPE  
VELSVSTKKE

>sp|Q96Q83|ALKB3\_HUMAN Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3 OS=Homo sapiens GN=ALKBH3 PE=1 SV=1

MEEKRRRARVQGAWAAPVKSQAIAQPATTAKSHLHQKPGQTWKNKEHHLSDREFVFKEPQ  
QVVRRAPEPRVIDREGVYEISLSPTGVSRLVCLYPGFVDVKEADWILEQLCQDVPWKQRTG  
IREDITYQQPRLTAWYGELPYTYSRITMEPNPHWHPVLRITLKNRIEENTGHTFNSLLCNL  
YRNEKDSVDWHSDDPEPSLGRCPPIIASLSFGATRTFEMRKKPPPEENGDTYVERVKIPLD  
HGTLIMEGATQADWQHRVPKEYHSREPRVNLTFRTVYPDPRGAPW

>sp|Q6P6C2|ALKB5\_HUMAN RNA demethylase ALKBH5 OS=Homo sapiens GN=ALKBH5 PE=1 SV=2

MAAASGYTDLREKLKSMTSRDNYKAGSREAAAAA AVAAAAA AEPYPVSGAKRKY  
QEDSDPERSDYEEQQLQKEEEARKVKSGIRQMRLFSQDECAKIEARIDEVVSRAEKGLYN  
EHTVDRAPLRNKYFFGEGYTYGAQLQKRGPGQERLYPPGDVDEIPEWVHQLVIQKLVEHR  
VIPEGFVNSAVINDYQPGGCIVSHVDPIHIFERPIVSVSFFSDSALCFGCKFQFKPIRVS  
EPVLSLPVRRGSVTVLSGYAADEITHCIRPQDIKERRAVIILRKTRLDAPRLETSLSSS  
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>sp|Q3KRA9|ALKB6\_HUMAN Alpha-ketoglutarate-dependent dioxygenase alkB homolog 6 OS=Homo sapiens GN=ALKBH6 PE=1 SV=2

MEEQDARVPALEPFRVEQAPPVIYYVPDFISKEEEYLLRQVFNAPKPKWTQLSGRKLQN  
WGGLPHPRGMVPERLPPWLQRYVDKVSNSLSLFGGLPANHVLVNQYLPGEGIMPHEDGPLY  
YPTVSTISLSGHTVLDYFEPRRPEDDDPTEQPRPPRPRTSLLLEPRSLVLVRGPAYTRL  
LHGIAAARVDALDAASSPPNAAACPSARPGACLVRGTRVSLTIRRVPRVLRAGLLLK

>sp|Q9BT30|ALKB7\_HUMAN Alpha-ketoglutarate-dependent dioxygenase alkB homolog 7, mitochondrial OS=Homo sapiens GN=ALKBH7 PE=1 SV=1

MAGTGLLALRTLPGPSWVRGSGPSVLSRLQDAAVVRPGFLSTAEETLSRELEPELRRRR  
YEYDHWDAAIHGFRTEKSRWSEASRAILQRVQAAAFGPGQTLLSSVHVLDEARGYIKP  
HVDSIKFCGATIAGLSLLSPVMRLVHTQEPGEWLELLLEPGSLYILRGSARYDFSHEIL  
RDEESFFGERRIPRGRRISVICRSLPEGMPGESGQPPAC

>sp|Q8TCU4|ALMS1\_HUMAN Alstrom syndrome protein 1 OS=Homo sapiens GN=ALMS1 PE=1 SV=3

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VYQGNSTQISDTNVVCLETTAQRGSGDDQKTESWHCLPQEMDSSQTLDTSQTRFNVRTE  
DTEVTDFPSLEEGILTQSENQVKEPNRDLFCSPLLVIQDSFASPDPLLTCLTQDQEFAP  
DSLHQSELSFAPLRGIPDKSEDTEWSSRPSEVSEALFQATAEVASDLASSRFSVSHPL  
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LADTHLTEETLKVTAIPEPADQKTATPTVLSSSHSRGKPSIFYQQGLPDSHLTEEALKV  
SAAPGLADQTTGMSTLTSTSYSHREKPGTFYQQELPESNLTEEPLEVSAAAPGPVEQKTGI  
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SAPSSFYSHREKPIIFSQQTLPDFLFPEEALKVSAVSVLAAQKTGTPTVSSNSHSHSEKS  
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YQQTLPGSHIPEEAQKVSPVLGPADQKTGTPTPTSASYSHTEKPGIFYQQVLPDNHPT EE  
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VVPQGQDRKTEIPTVPLSYSRREKPSVISQQELPD SHL TEEALKVSPVSI PAEQKTGIP  
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TEDALKISSALGQADQITGLQTVPSGTYSHGENHKL VSEHVQRLIDNLNSSDSSVSSNNV  
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PLARFRDISDISFIQSKKVVC FKEPSSTGVSN GDLHRQPFT EESPSSRCIQKDIGTQTN  
LKCRRGIENWEFISSTTVRSPLQEAE SKVSMAL EETLRQYQA AKSVMRSEPEGCSGTIGN  
KIIIPMMTVIKSDSSSDASDGN GSCSWDSNL PESLESVSDVLLNFFPYVSPKTSITDSRE  
EEGVSESEDGGGSSVDSLAAHVKNLLQCESSLNHAKEILRNAEEEE SRVRAHAWNMKFNL  
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RDLKQKTSSPSSFKMHSNSQDKEVTILAEGRRQSQKLPVDFERSFQEEKPLERSDFTGSH  
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KPKSHISNINVEAKFNTVVSQSAPNHCTLAASASTPPSNRKALSCVHITLCPKTSSKLDS  
GTLDERFHS LDAASKARMNSEFNFDLHTVSSRSLEPTSKLLTSKPVAQDQESLGFLGPKS  
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VKFASSSSVQVTF SRGTGQPLLLPYKPSGSKMYYPQLRQIPSPDSKSDTTVESSH  
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FVPVENVESRSKKENVPNTCGPGISWFEPITKTRPWREPLREQNCQGQHLDGRGYLAGPG  
REAGRDLLRPFVRATLQESLQFHRPDFISRSGERIKRLKLIVQERKLQSMQLQTERDALFN  
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YKSYRLRAQLYKKRVTNQLLGRKVPWD

>sp|Q86TB3|ALPK2\_HUMAN Alpha-protein kinase 2 OS=Homo sapiens GN=ALPK2 PE=2 SV=3

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RDRGWKHETGTHEERANQIDEKEHPYKEEESISPGTPRSADSSPSKSNHSLSLQSLGNL  
DISVSSSENPLGVKGTHTGEAYDPSNTEEIANGLLFLNSSHIYEKQDRCCHKTVHSMAS  
KFTDGDNLNDGPHDEGLRSSQQNPKVQKYISFSLPLSEATAHIYPGDSAVANKQPSPLS  
SESDSDSYELCPEITLTYTEEFSDDDLEYLECSDMVTDYSNAVWQRNLLGTEHVFLLESD  
DEEMEFGEHCLGGCEHFLSGMGCSRVSVDAGPMVATAGFCGHSQPQEVGVRSSRVSKH  
GPSSPQTGMTLILGPHQDGTSSVTEQGGRYKLPTAPEAAENDYPGIQGETRDSHQAREEFA  
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GMKGNPKKPNANLRESTTEGTLHLCSAKESAEPPLTQSDKRETSHTTAAATGRSSHADAR  
ECAISTQAEQEAQTLQSTSDVSKEGNTNCKGEGMQVNTLFETSQVPDWSPPQVQVQET  
VRETISCSQMPAFSEPAGEESPFTGTTTTISFNLGGVHKENASLAQHSEVKPCTCGPQHE  
EKQDRDGNIPDNFREDLKYEQSISEANDETMSPGVFSRHLPKDARADFREPVAVSVASPE  
PTDTALTLENCDEPRDREAVCAMECFEAGDQGTCTFDTIDSLVGRPVDKYSPQEQICSVDT  
ELAEGQNKVSDLCSSNDKTLEVFFQTQVSETSVSTCKSSKDGNSVMSPLFTSTFTLNISH  
TASEGATGENLAKVENSTYPLASTVHAGQEQPSPSNSGGLDDETQLLSENPLVQFKEGG  
DKSPSPSAADTTATPASYSSIVSFPWEKPTLTANNECFQATRETEDTSTVTIATEVHPA  
KYLAVSIPEDKHAGGTEERFPRASHEKVSQFPSQVQLDHILSGATIKSTKELLCRAPSV  
GVPHHVLQLPEGEGFCSNSPLQVDNLSGDKSQTVDRAFRSYEENFQERGSETKQGVQQQ  
SLSQQGSLAPDFQQLPTTAAQEERNLVPTAHSPASSREGAGQRSGWGTRVSVVAETA  
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ISVHWRSLSSRGFSQPRLESSVDPVDEKELSVTDSLAASETGGKENVNVNSQDQEEKQ  
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FLISHKMEEPKIEVLQIGETKPPSSSSSSAKTLAFISGERELEKAPKLLQDPCQKGTLC  
AKKSREREKSLEARAGKSPGTLTAVTGSEEVKRKPEAPGSGHLAEGVKKKILSRVAALRL  
KLEEKENIRKNSAFLKMPKLETSLSHTEEKQDPKKPSCKREGRAPVLLKKIQAEMFPEH

SGNVKLSQFAEIHEDSTICWTKDSKSIQVQRSAGDNSTVSFAIVQASPKDQGLYCCI  
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EELHFGEVHRKAFRSTVMHGLMPVFKPGHACVLKVHNAIAYGTRNNDL IQRNYKLAAQ  
ECYVQNTARYYAKIYAAEAQPLEGFGEVPEI IPIFLIHRPENNIPIYATVEEELIGEFVKY  
SIRDGKEINFLRRESEAGQKCCTFQHWVYQKTS GCLLV TDMQGVGMKLT DVG IATLAKGY  
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>sp|Q99217|AMELX\_HUMAN Amelogenin, X isoform OS=Homo sapiens GN=AMELX PE=1 SV=1  
MGTWILFACLLGA AFAMPLPPHPGHPGYINFSYEVLTPLK WYQSIRPPYPSYGYEPMGGW  
LHHQIIPVLSQQHPPTHTLQPHHHIPV VPAQQPVIPQQPMPVPGQHSMTPIQHHQPNLP  
PPAQQPYQPVPVQPHQPMQPPVHPMQPLPPQPLPMFPMQPLPMLPDLTLEAWP  
STDKTKREEVD

>sp|Q9H4A4|AMPB\_HUMAN Aminopeptidase B OS=Homo sapiens GN=RNPEP PE=1 SV=2  
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GTAVLDLRCLEPEGAAELRLD SHPCLEVTA AALRRERPGSEPPAEPVSFYTQPF SHYGQ  
ALCVSFPQPCRAAERLQVLLTYRVGEGPGVCWLAPEQTAGKKKPFVYTQ GQAVLNRAFFP  
CFDTPAVKYKYSALIEVPDGTAVMSASTWEKRGPNKFFFQMCQPIPSYLI ALAIGDLVS  
AEVGPRSRVWAEPCLIDAAKEEYNGVIEEFLATGEKLF GPYVWGRYDLLFMPPSF PFGGM  
ENPCLTFVTPCLLAGDRSLADVI IHEISHSWFGNLVTNANWGEFWLNEGFTMYAQRRI ST  
ILFGAAYTCL EATGRALLRQHMDITGEENPLNKL RVKIEPGVDPDDTYNETPYEKGFCF  
VSYLAHLVGDQDQDFS LKAYVHEFKFRSILADDFLD FYLEYFELKKKRVDIIPGFEFD  
RWLNTPGWPPYLPDLSPGDSLMPAEELAQ LWAAEELDMKAIEAVAISPWKTYQLVYFLD  
KILQKSPLPPGNVKKLGD TYPSISNARNAELRLRWGQIVLKN DHQEDFWKVKEFLHNQ GK  
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>sp|P28838|AMPL\_HUMAN Cytosol aminopeptidase OS=Homo sapiens GN=LAP3 PE=1 SV=3  
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IRA AVAAGCRQIQDLELSSVEVDPCGDAQAAAE GAVLGLYEYDDLKQKKKMAVS AKLYGS  
GDQEA WQKGVLFASGQNLARQLMETPANEMTPTRFAE IIEKNLKSASSKTEVHIRPKSWI  
EEQAMGSFLS VAKGSDEPPVFLEIHYKGS PNANEPPLVFVGKGITFDSGGISIKASANMD  
LMRADMGGAATICS AIVSAAKLNL PINIIGLAPLCENMPSGKANKPGDVVR AKNGKTIQV  
DNTDAEGR LILADALCYAHTFNPKVILNAATLTGAMDVALGSGATGVFTNSSWLWNLFE  
AS IETGDRVWRMPLFEHYTRQV VDCQLADVNNIGKYRSAGACTAA AFLKEFVTHPKWAHL  
DIAGVMTNKDEV PYLRKGMTGRPTRTLIEFLLRFSQDNA

>sp|P15144|AMPN\_HUMAN Aminopeptidase N OS=Homo sapiens GN=ANPEP PE=1 SV=4  
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SATTL DQSKAWNRYRLPNTLKPDSYRVTLR PYLTPNDRGLYVFKGSSTVRFTCKEATDVI  
I IHSKKLNYTLSQGHRVVLRGVGGSQPPDIDKTELVEPTEYLVVHLK GSLVKDSQYEMDS  
EFEGELADDLAGFYRSEYMEGNVRKV VATTQMQAADARKSFPCFDEPAMKA EFNITLIHP  
KDLTALS NMLPKGPSTPLPEDPNVNT EFTHTPKMSTYLLAFIVSEFDYVEKQASNGVLI  
RIWARPSAIAAGHG DYALNVTGPILNFFAGHYDTPYPLPKSDQIGLPDFNAGAMENWGLV  
TYRENSLLFDPLSSSSSNKERVTVIAHELAHQWFGNLVTIEWWNDLWLN EGFASYVEYL  
GADYAEPTWN LKDLMLVNDVYRVMAVDALASSHPLSTPASEINTPAQISELFD AISYSGK  
ASVLRMLSSFLSEDVFKQLASYLHTFAYQNTIYLNLDH LQEA VNNRSIQLPTTVRDIM



NRWTLQMGFPVITVDSTGTLSQEHFLDPDSNVTRPSEFNYYVWIVPITSIRDGRQQQDY  
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IINDAFNLASAHKVPVTLALNNTLFLIEERQYMPWEAALSSLSYFKLMFDRSEVYGPMKN  
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LNRYLSYTLNPD LIRKQDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFSFSN  
LIQAVTRRFSTEYELQQLQEQFKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQ  
WFTENSK

>sp|Q9UJ72|ANX10\_HUMAN Annexin A10 OS=Homo sapiens GN=ANXA10 PE=1 SV=3

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NGEIFQMREAYCLQYSNNLQEDIYSETSGHFRDTLMNLVQGTREEGYTDPAMAAQDAMVL  
WEACQKQTGEHKTMLQMILCNKSYQQLRLVFQEFQNISSGQDMVD AINECYDGYFQELLVA  
IVLCVRDKPAYFAYRLYSAIHDFGFHNKTVIRIL IARSEIDLLTIRKRYKERYGKSLFHD  
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>sp|P50995|ANX11\_HUMAN Annexin A11 OS=Homo sapiens GN=ANXA11 PE=1 SV=1

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PPYPGAPVPGQMPPPGQPPGAYPGQPPVTYPGQPPVPLPGQQQPVPSYPGYPGSGTVT  
PAVPPTQFGSRGTITDAPGFDPLRDAEVLRKAMKFGTDEQAIIDCLGSRSNKQRQQILL  
SFKTAYGKDLIKDLKSELSGNFEKTILALMKTPVLFDIYEIKEAIKGVGTDEACLIEILA  
SRSNEHIRELNRAYKAIEFKKTL EEAIRSDTSGHFQRL LISLSQGNRDESTNVDMSLAQRD  
AQELYAAAGENRLGTDESKFNAVLCSSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEE  
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>sp|Q10567|AP1B1\_HUMAN AP-1 complex subunit beta-1 OS=Homo sapiens GN=AP1B1 PE=1 SV=2

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QLQLLTAIVKLFLKKPTETQELVQVLSLATQDSNDPDLRDRGYIYWRLLSTDPVAAKEV  
VLAEKPLISEETDLIEPTLLDELICYIGTLASVYHKPPSAFVEGGRGVVHKS LPPRTASS  
ESAESPETAPTGAPPGEQPDVIPAQGDLLGDLLNLDLGPVSGPPLATSSVQMGAVDLLG  
GGDLSLMGDEPEGIGGTN FVAPPTAAVPANLGAPIGSGLSDFDLTSGVGTLSGSYVAPK  
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MDRQMFLATWKDIPNENEAQFQIRDCPLNAEAAASSKLQSSNIFTVAKR NVEGQDMLYQSL  
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>sp|075843|AP1G2\_HUMAN AP-1 complex subunit gamma-like 2 OS=Homo sapiens GN=AP1G2 PE=1 SV=1

MVVP SLKLQDLIEEIRGA KTQAQEREVIQKECAHIRASFRDGPVHRHRQLAKLLYVHML  
GYPAHFGQMECKLIASSRFTDKRVGYLGAMLLDERHDAHLLITNSIKNDLSQGIQPVQ  
GLALCTLSTMGSAEMCRDLAPEVEKLLLQSPYVRKKAILTAVHMIRKVP ELSVFLPPC  
AQLLHERHHGILLGTITLITELCERSPAALRHFRKVV PQLVHILRTLVTMGYTEHSISG  
VSDPFLQVQILRLRLILGRNHEESSETMNDLLAQVATNTDTSRNAGNAVL FETVLTIMDI  
RSAAGLRVLAVN ILGRFLLNSDRNIRYVALTSLRLVQSDHSAVQRHRPTVVECLRETD A  
SLSRRALELSLALVNSSNVRAMMQLQAFLESCPPDLRADCASGILLAAERFAPTKRWHI  
DTILHVLTTAGTHVRDDAVANLTQLIGGAQELHAYSVRRLYNALAEDISQQPLVQVAWC  
IGEYGDLLLAGNCEEIEPLQVDEEEVLALLEKVLQSHMSLPATRGYALTALMKLSTRLCG  
DNNRIRQVVS IYGSCLDVELQQRAVEYDTLFRKYDHMRAAILEKMPLVERDGPQADEEAK  
ESKEAAQLSEAAPVTEPQASQLLDLLDGASGDVQHPPHLDPSGGALVHLLDPCV  
PPPPAPIPDLKVFEREQVQLNLSFIRPPENPALLLITITATNFSEGDVTHFICQAAVPSK  
LQLQLQAPSGNTVPARGGLPITQLFRILNPNKAPLRLKLRLTYDHFHQSVQEIFEVNNLP  
VESWQ

>sp|Q13367|AP3B2\_HUMAN AP-3 complex subunit beta-2 OS=Homo sapiens GN=AP3B2 PE=1 SV=2

MSAAPAYSEDKGSAGPGEPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKR  
IVAMIARGKNASDLFPVAVKNVACKNIEVKKLVYVYLVRVYAEQQLALLSISTFQRGLK  
DPNQLIRASALRVLSIRVPIIIVPIMMLAIKEAASDMSPYVRKTAHAIPKLYSLSDSQK  
DQLIEVIEKLLADKTTLVAGSVVMAFEEVCPERIDL IHNKYNRKLCNLLIDVEEWGQVVI  
SMLTRYARTQFLSPTQNESLLEENAEKAFYGSEDEAKGAGSEETAAAAAPSRKPYVMDP  
DHRLRLRNTPKLLQSRSAAVMVAQLYFHLAPKAEVGVIAKALVRLLRSHSEVQYVVLQ  
NVATMSIKRRGMFEPYLSFYIRSTDPTQIKILKLEVLTNLANETNIPTV LREFQTYIRS  
MDKDFVAATIQAIGRCATNIGVRDTCNLGLVQLLSNRDELVAESVVV IKKLLQMPPAQ  
HGEI IKHLAKLTDNIQVPMARASILWLIGEYCEHPRIAPDVL RKMAKSFTAEDIVKLQ  
VINLAAKLYLTNSKQTKLLTQYVLSLAKYDQNYDIRDRARFTRQLIVPSEQGALS RHAK  
KLFLAPKPAPVLESSFKDRDHQGLSLSHLLNAKATGYQELPDWP EEAPDPSVRNVEVPE  
WTKCSNREKRKEKEKPFYSDEGESGPTESADSDPESESESDSKSSSESGSGESSSESDN  
EDQDEDEEKGRGSESEQSEEDGKRKTKKKVPERKGEASSSDEGSDSSSSSESEMTSESE  
EEQLEPASWSRKTPSSKSAPATKEISLLDLEDFTPPSVQPVSPPAIVSTSLAADLEGLT  
LTDSTLVPSLLSPVSGVGRQELLHRVAGEGLAVDYTF SRQPFSGDPHMSVHIHFSNSSD  
TPIKGLHVGP KLPAGISIQEFPEIESLAPGESATAVMGINFCDSTQAANFQLCTQTRQF  
YVSIQPPVGELMAPVFMSENEFKKEQGKLMGMNEITEKMLPDTCRSDHIVVQKVTATAN  
LGRVPCGTSDEYRFAGRTL TGGSLVLLTLDARPAGAAQLTVNSEKMVIGTMLVKDVIQAL  
TQ

>sp|Q96LR9|APLD1\_HUMAN Apolipoprotein L domain-containing protein 1 OS=Homo sapiens  
GN=APOLD1 PE=2 SV=2

MFRAPCHRLRARGTRKARAGAWRGCTFPCLGKGMERPAAREPHGPDALRRFQGLLLDRRG  
RLHGQVLRRLREVARRLRLRRRSLVANVAGSSLSATGALAAIVGLSLSPVTLGTSLVSA  
VGLGVATAGGAVTITSDLSLIFCNSRELRRVQEIAATCQDQMREILSCL EFFCRWQGGD  
RQLLQCGRNASIALYNSVYFIVFFGSRGFLIPRRAEGDTKVSQAVLKAKIQKLAESLESC  
TGALDELSEQLSERVQLCTKSSRGHDLKISADQRAGLFF

>sp|P02652|APOA2\_HUMAN Apolipoprotein A-II OS=Homo sapiens GN=APOA2 PE=1 SV=1

MKLLAATVLLLTICSLEGALVRRQAKEPCVESLVSQYFQTVTDYGKDLMEKVKSP ELQAE  
AKSYFEKSKEQLTPLIKKAGTELVNFLSYFVELGTQPATQ

>sp|Q6Q788|APOA5\_HUMAN Apolipoprotein A-V OS=Homo sapiens GN=APOA5 PE=1 SV=1

MASMAAVLTWALALLSAFSATQARKGFWDFYSQTSGDKGRVEQIHQQKMAREPATLKDSL  
EQDLNNMNKFLEKLRLPSGSEAPRLPQDPVGMRRQLQEELEEVKARLQPYMAEAHELVGW  
NLEGLRQQLKPYTMDLMEQVALRVQELQEQLRVVGEDTKAQLLGGVDEAWALLQGLQSRV  
VHHTGRFKELFHPYAESLVSGIGRHVQELHRSVAPHAPASPARLSRCVQVLSRKLTLKAK  
ALHARIQQNLQDREELSRAFAGTGTEEGAGPDPQMLSEEVQRQLQAFRQDTYLQIAAFT  
RAIDQETEEVQQQLAPPPPGHSAFAPEFQQTDSGKVL SKLQARLDDLWEDITHSLHDQGH  
SHLGDP

>sp|P55056|APOC4\_HUMAN Apolipoprotein C-IV OS=Homo sapiens GN=APOC4 PE=1 SV=1

MSLLRNRLQALPALCLCVLVLACIGACQPEAQEGTSPPPKLMRSWLSVRGRMKELLET  
VVNRTRDGWQWFWSPSTFRGFMQTYDDHLRDLGPLTKAWFLESKDSLLKKTHSLCPRLV  
CGDKDQG

>sp|O00170|AIP\_HUMAN AH receptor-interacting protein OS=Homo sapiens GN=AIP PE=1 SV=2

MADI IARLREDGIQKRVIQEGRGELPDFQDGTKATFHRYTLHSDDEGTVLDDSRARGKPM  
ELIIGKKFKLPVWETIVCTMREGEIAQFLCDIKHVLYPLVAKSLRNIAVGKDPLEGQRH  
CCGVAQMREHSSLGHADLDALQQNPQPLIFHMEMLKVESPGTYQQDPWAMTDEEKAKAVP  
LIHQEGNRLYREGHVKEAAKYDAIACLKNLQMKEQPGSPEWQLDQQITPLLLNYCQC  
KLVEEYEEVLDHCSSILNKYDDNVKAYFKRGKAHA AVWNAQEAQADF AKVLELDPALAP  
VVSRELQALEARIRQKDEEDKARFRGIFSH

>sp|Q96IF1|AJUBA\_HUMAN LIM domain-containing protein ajuba OS=Homo sapiens GN=AJUBA PE=1  
SV=1

MERLGEKASRLLEKFGRRKGESSRSGSDGTPGPGKGRLSGLGGPRKSGPRGATGGPGDEP  
LEPAREQGS LDAERNQRGSFEAPRYEGSFPAGPPPTRALPLPQSLPPDFRLEPTAPALSP  
RSSFASSASDASKPSSPRGSLLLDGAGAGGAGGSRPCS NR TSGISMGYDQRHGSPLPAG  
PCLFGPPLAGAPAGYSPGGVPSAYPELHAALDRLYAQRPAFGCQESRHSYPPALGSPGA  
LAGAGVGAAGPLERRGAQPRHSVTGYGDCAVGARYQDEL TALLRLTVGTGGREAGARGE  
PSGIEPSGLEPPGPFVPEAARARMREPEAREDYFGTCIKCNKGIYQQSNACQALDSLYH  
TQCFVCCSCGRTL RCKAFYSVNGSVYCEEDYLFSGFQEA AEKCCVCGHLILEKILQAMGK  
SYHPGCFRCIVCNKCLDGIPFTVDFSNQVYCVTDYHKNYAPKCAACGQPILPSEGCE DIV  
RVISM DRDYHFECYHCEDCRMQLSDEEGCCCFPLDGHLLCHGCHMQRLNARQPPANYI

>sp|Q5JQC9|AKAP4\_HUMAN A-kinase anchor protein 4 OS=Homo sapiens GN=AKAP4 PE=1 SV=1

MMAYSDDTMMSDIDWLRSHRGVCKVDLYNPEGQQDQDRKVICFVDVSTLNVEDKDYKDA  
ASSSSEGNLNLGSLEEKEIIVIKDTEKKDQSKTEGSVCLFKQAPSDPVSVLNLWLLSDLQK  
YALGFQHALSPSTSTCKHKVGDTGEYHRASSENCYSVYADQVNIDYLMNRPQNLRL EMT  
AAKNTNNNQSPSAPPAKPPSTQRAVISPDGECSIDDL SFYVNRLSSLVIQMAHKEIKEKL  
EGKSKCLHHSICPSPGNKERISPRTPASKIASEMAYEAVELTAAEMRG TGEE SREGGQKS  
FLYSELSNKS KSGDKQMSQRESKEFADSI SKGLMVYANQV ASDMMVSLMKTLKVHSSGKP  
IPASVVLKRVLLRHTKEIVSDLIDSCMKNLHNITGVLMTDSDFVSAVKRNLFNQWKQ NAT  
DIMEAMLKRLVSALIGEEKETKSQSLSYASLKAGSHDPKCRNQSL EFSTMKAEMKERDKG  
KMKSDPCKSLTSAEKVG EHLKEGLTIWNQKQGNSCKVATKACSNKDEKGEKINASTDSL  
AKDLIVSALKLIQYHLTQQTKGKDTCEEDCPGSTMGYMAQSTQYEKCGGGQSAKALSVKQ  
LESHRAPGPSTCQENQHLD SQKMDMSNIVLMLIQKLLNENPFKCEDPCEGENKCSE PRA  
SKAASMSNRSDKAEQ CQEHELDCTSGMKQANGQFIDKLVESVMKLCLIMAKYSNDGAA  
LAELEEQAASANKPNFRGTRCIHSGAMPQNYQDSL GHEVIVNNQCSTNSLQKQLQAVLQW

IAASQFNVPMLYFMGDKDGQLEKLPQVSAKAAEKGYSVGGLLQEVMKFAKERQPDEAVGK  
VARKQLLDWLLANL

>sp|P24588|AKAP5\_HUMAN A-kinase anchor protein 5 OS=Homo sapiens GN=AKAP5 PE=1 SV=3

METTISEIHVENKDEKRSAEGSPGAERQKEKASMLCFKRRKKAALKPKAGSEAADV  
KCPQEAGASDQPEPTRGAWASLKRLVTRRKSESSKQKPLEGEMQPAINAEDADLSKKK  
AKSRLKIPCIKFPRGPKRSNHSKIIEDSDCSIKVQEEAEILDIQTQTPLNDQATKAKSTQ  
DLSEGISRKDGDEVCESNVSNSTTSGEKVISVELGLDNHSAIQTGTLLILEEIETIKEKQ  
DVQPQASPLETSETDHQQPVLSDVPPLPAIPDQQIVEEASNSTLESAPNGKDYESTEIV  
AEETKPKDTELSQESDFKENGITEEKSSEESKRMEPIAIIITDTEISEFDVTKSKNVPK  
QFLISAENEQGVGFANDNGFEDRTSEQYETLLIETASSLVKNAIQLSIEQLVNEMASDDN  
KINNLLQ

>sp|Q13023|AKAP6\_HUMAN A-kinase anchor protein 6 OS=Homo sapiens GN=AKAP6 PE=1 SV=3

MLTMSVTLSPLRSQDLDPMATDASPMAMTPTVEQGEGEAMKDMDSQQYEKPPPLHT  
GADWKIVLHLPEIETWLRMTSERVRDLTYSVQQDSKSHVDVHLVQLKDICEDISDHVEQ  
IHALLETEFSLKLLSYSVNVIVDIHAVQLLWHQLRVSVLVLRERILQGLQDANGNYTRQT  
DILQAFSEETKEGRDLSLTEVDDSGQLTIKCSQNYLSLDCGITAFELSDYSPSEDLLSGL  
GDMTSSQVKTKPFDWSYSEMEKEFPELIRSVGLLTVAADSISTNGSEAVTEEVSVQSLS  
VDDKGGCEEDNASAVEEQPGLTLGVSSSSGEALTNAAPSSSETVQQESSSSSHHDAKNQ  
PVPENATPKRTIRDCFNYNEDSPTQPTLPKRGLFLKEETFKNDLKGNGGKRQMVDLKPE  
MSRSTPSLVDPDRSKLCLVLQSSYPNPSAASQSYECLHKVGNLNTVVFHIKEISS  
SLGRLNDQYKEKSRLKKPHKTSEEVPKCRTPKRGTGSGKQAKNTKSSAVPNGELSYTSKA  
IEGPQTNASTSSLEPCNQRSWNAKLQLQSETSSSPAFTQSSESSVGSNIMSPVPLLSK  
HKSKKGQASSPSHVTRNGEVVEAWYGSDEYLALPSHLKQTEVLALKLENLTKLLPQKPRG  
ETIQNIDDWELSEMNSDSEIYPTYHVKKKHTRLGRVSPSSSDIASSLGESIESGPLSDI  
LSDEESSMPLAGMKKYADEKSERASSSEKNESHSAKTSALIQKLMQDIQHQNIEAIWEK  
IEGFVNKLDEFIQWLNEAMETTENTWTPPKAEMDDLKLYLETHLSFKLNVDSHCALKEAVE  
EEGHQLLELIASHKAGLDMLRMIAQWQELQRQIKRQHSWILRALDTIKAEILATDVSV  
EDEEGTGSPKAEVQLCYLEAQRDAVEQMSLKYSEQYTSSSKRKEEFADMSKVHVSNG  
LLDFDSEYQELWDWLDMESLVMDSHDLMMSEEQQQHLKYKRYSVEMSIHLLKKTLLSKV  
EALKKGGVLLPNDLLEKVDSINEKWELLGKTLGEKIQDTMAGHSGSSPRDLLSPESGSLV  
RQLEVRIKELKGWLRDTELFIFNSCLRQEKEGTMTNEKQLQYFKSLCREIKQRRRGVASI  
LRLCQHLLDDRETCLNADHQPMLIIVNLERRWEAIVMQAVQWQTRLQKKMGKESLTLN  
VIDPGLMDLNGMSEDALEWDEMDISNKLISLNEESNDLDQELQPVIPSLKLGETSNEDPG  
YDEEADNHGGSQYASNITAPSSPHIYQVYSLHVELYEDNHMPFLKNNPKVTGMTQPNVL  
TKSLSKDSSFSSTKSLPDLGGSNLVKPCACHGGDMSQNSGSESGIVSEGDTETTNSEM  
CLLNAVVGSPSNLETEHLDPQMGDAVNVLKQKFTDEGESIKLPNSSQSSISPVGCVNGKV  
GDLNSITKHTPDCLGEELQGHVDVFTFYDYSYLQSGSKLKLPMIMKQSQSEKAHVEDPLLR  
GFYFDKKCKSKHQTTTELQPDVPPHERILASASHEMDRISYKSGNIEKTFTGMQNAKQLS  
LLSHSSSIESLSPGGDLFGLGIFKNGSDSLQRSTSLESWLTSYKSNEDLFSCHSSGDISV  
SSGSVGELSKRTLDDLNRLENIQSPSEQIKRSVSDITLQSSSQKMSFTGQMSLDIASSI  
NEDSAASLTELSSDELCLCEDIVLHKNKIPESNASFRKRLTRSVADESDVNVSMIVNV  
SCTSACTDDEDDSDLLSSSTLTLTEEELCIKDEDDSSSIATDDEIYEDCTLMGLDYIKN  
ELQTWIRPKLSLTRDKKRCNVSDEMKGSKDISSSEMTNPSDTLNIETLLNGSVKRVSENN  
GNGKNSSSTHELGTRENKKTIFKVNKDPYVADMENGNIEGIPERQKGKPNVTSKVSLENL

GSHGKEISESEHCKCKALMDSLDDSN TAGKEFVSQDVRHLPKKCPNHHHFENQSTASTPT  
EKSFSLELALETRFNNRQDS DALKSSDDAPSMAGKSAGCCLALEQNGTEENASISNISCCN  
CEPDVHFHQDAEDCSVHNFVKEIIDMASTALKSKSQPENEVAAPTSLTQIKEKVLHSHR  
PIQLRKGDIFYLSLSSHSDSGEVTNYIEEKSSTPLPLD TTDSGLDDKEDIECFEACV  
EGSDSGEEPFSSAPPNESAVPSEAAMPLQATACSEFS DSSL SADDADTVALSSPSSQE  
RAEVGKEVNGLPQTSSGCAENLEFTPSKLDSEKESGKPGESGMPEEHNAASAKSVQDL  
SLKANQPTDKAALHPSPKTLTCEENLLNLHEKRHRNMHR

>sp|Q96JD6|AKCL2\_HUMAN 1,5-anhydro-D-fructose reductase OS=Homo sapiens GN=AKR1E2 PE=1 SV=2

MGDIPAVGLSSWKASPGKVTEAVKEAIDAGYRHFDCAYFYHNEREVGAGIRCKIKEGAVR  
REDLFIATKLWCTCHKKSLVETACRKS LKALKLNYLDLYL IHWPMGFKPPHPEWIMSCSE  
LSFCLSHPRVQDLPLDESNMVIPSDTDFLDTWEAMEDLVITGLVKNIGVSNFNHEQLERL  
LNKPGLRFKPLTNQIECHPYLTQKNLISFCQSRDVSVTAYRPLGGSCEGVDLIDNPVIKR  
IAKEHGKSPAQILIRFQIQRNVIVIPGSITPSHIKENIQVDFELTQHDMDNILSLNRNL  
RLAMFPITKNHKDYPFHIEY

>sp|P00352|AL1A1\_HUMAN Retinal dehydrogenase 1 OS=Homo sapiens GN=ALDH1A1 PE=1 SV=2

MSSSGTPDLPVLLTDLKIYTKIFINNEWHDSVSGKKFPVFNPA TEEELCQVEEGDKEDV  
DKAVKAARQAFQIGSPWRTMDASERGRLLYKLADLIERDRLLLATMESMNGGKLYSNAYL  
NDLAGCIKTLRYCAGWADKIQGRTIPIDGNFFTYTRHEPIGVCGQIIPWNFPLVMLIWKI  
GPALSCGNTVVVKPAEQTPLTALHVASLIKEAGFP PGVVNI VPGYGPTAGAAISSHMDID  
KVAFTGSTEVGKLIEAAGKSNLKRVTLELGGKSPCIVLADADLDNAVEFAHHGVFYHQG  
QCCIAASRIFVEESIYDEFVRRSVERAKKYILGNLTPGVTQGPQIDKEQYDKILD LIES  
GKKEGAKLECGGGPWGNKG YFVQPTVFSNVTDEMRIA KEEIFGPVQQIMKFKSLDDVIKR  
ANNTFYGLSAGVFTKDDIKAITISSALQAGTVWVNCYGVVSAQCPFGGFKMSGNGRELGE  
YGFHEYTEVKT VTKISQKNS

>sp|P51648|AL3A2\_HUMAN Fatty aldehyde dehydrogenase OS=Homo sapiens GN=ALDH3A2 PE=1 SV=1

MELEVRRVRQAFLSGRSRPLRFRLQQLEALRRMVQEREKDILTAIAADLCKSEFNVSQE  
VITVLGEIDFMLENLPEWVTAKPVKKNVLTMLDEAYIQPQPLGVVLIIGAWNYPFVLTIQ  
PLIGAIAAGNAVI IKPSELSENTAKILAKLLPQYLDQDLYIVINGVEETTELLKQRFDH  
IFYTGNTAVGKIVMEAAAKHLTPVTLELGGKSPCYIDKDCDLDIVCRRITWGKYMNCGQT  
CIAPDYILCEASLQNQIVWKIKETVKEFYGENIKESPDYERIINLRHFKRILSLLEGQKI  
AFGGTDEATRYIAPTVLTDVDPKTKVMQEEIFGPILPIVPVKNVDEA INFINEREKPLA  
LYVFSHNHKL IKRMI DETSSGGVTGNDVIMHFTLNSFPFGVGSSGMGAYHGKHSFDTFS  
HQRPCLLKSLKREGANKLRYPPNSQSKVDWGKFLLKRFNKEKLGLLLL TFLGIVAAVLV  
KAEYY

>sp|Q9BT22|ALG1\_HUMAN Chitobiosyldiphosphodolichol beta-mannosyltransferase OS=Homo sapiens GN=ALG1 PE=1 SV=2

MAASCLVLLALCLLLPLLLLGGWKRWRRGRAARHVAVVLGDVGRSPRMQYHALSLAMHG  
FSVTLLGFCNSKPHDELLQNNRIQIVGLTELQSLAVGPRVFQYGVKVV LQAMYLLWKLMW  
REPGAYIFLQNPGLPSIACVWFVGCLCGSKLVIDWHNYGYSIMGLVHGPNHPLVLLAKW  
YEKFFGRLSHLNL CVTNAMREDLADNWHIRAVTVYDKPASFFKETPLDLQHRLFMKLGSM  
HSPFRARSEPDPVTERS AFTERDAGSLVTRLRERPALLVSSTSWTEDEDFSILLAALE  
KFEQLTLDGHNLSPLVCVITGKGPLREYYSRLIHQKH FQHIQVCTPWLEAEDYPLLLGSA  
DLGVCLHTSSSGLDLP MKVVD MFGCCLPVCAVNFKCLHEL VKHEENGLVFEDSEELAAQL

QMLFSNFPDPAGKLNQFRKNLRESQQLRWDESWVQTVLPLVMDT

>sp|Q9H6U8|ALG9\_HUMAN Alpha-1,2-mannosyltransferase ALG9 OS=Homo sapiens GN=ALG9 PE=1 SV=2

MASRGARQRLKSGSGSDTAPAADKLRELLGSREAGGAEHRTLSGNKAGQVWAPEGST  
AFKCLLSARLCAALLSNISDCDETFNYWEPHYLIYGEQFQTWEYSPAYAIRSYAYLLLH  
AWPAAFHARILQTNKILVFYFLRCLLAFVSCICELYFYKAVCKKFGHLVSRMMLAFLVLS  
TGMFCSSSAFLPSSFCMYTTLIAMTGWYMDKTSIAVLGVAAGAILGWPFSAALGLPIAFD  
LLVMKHRWKSFFHWSLMALILFLVPVVVIDSYYYGKLVIAPLNIVLVNVFTPHGPDLYGT  
EPWYFYLINGFLNFVAFALALLVPLTSLMEYLLQRFHVQNLGHPYWLTLAPMYIWFII  
FFIQPHKEERFLFPVYPLICLGAVALSALQKCYHFVFQRYRLEHYTVTSNWLALGTVFL  
FGLLSFSRSVALFRGYHGPLDLYPEFYRIATDPTIHTVPEGRPVNVCVGKEWYRFPSSFL  
LPDNWQLQFIPSEFRGQLPKPFAEGPLATRIVPTDMNDQNLEEPSRYIDISKCHYLVLDL  
TMRETPREPKYSSNKEEWISLAYRPFLDASRSSKLLRAFYVPFLSDQYTVVYNYTILKPR  
KAKQIRKKSGG

>sp|Q9NP70|AMBN\_HUMAN Ameloblastin OS=Homo sapiens GN=AMBN PE=1 SV=1

MSASKIPLFKMKDLILILCLESFAVPFPFQQSGTSGMASLSLETMRQLGSLQRLNTLS  
QYSRYGFGKSFNSLWMHGLLPHSSLPWMPREHETQQYEYSLPVHPPPLPSQPSLKPQQ  
PGLKPFLQSAATTNQATALKEALQPPIHLGHLPLQEGELPLVQQVAPSDKPPKPELPG  
VDFADPQGPSLPGMDFDPQGPSLPGLDADPQGSTIFQIARLISHGMPQNKQSPLYPG  
MLYVPFGANQLNAPARLGIMSSEEVAGGREDDPMAYGAMFPGFGGMRPGFEGMPHNPAMGG  
DFTLEFDSVAATKGPENEEGGAQGSPMPEANPDNLENPAFLTELEPAPHAGLLALPKDD  
IPGLPRSPSGKMKGLPSVTAAADPLMTPELADVYRTYDADMTTSVDFQEEATMDTTMAP  
NSLQTSMPGNKAQEPEMMHDAWHFQEP

>sp|P02760|AMBP\_HUMAN Protein AMBP OS=Homo sapiens GN=AMBP PE=1 SV=1

MRLSGALLLLLSACLAVSAGPVPTPPDNIQVQENFNISRIYQKWNLAIGSTCPWLKKIM  
DRMTVSTLVLGEGATEAEISMTSTRWRKGVCEETSGAYEKTDTDGKFLYHKSKNITMES  
YVVHTNYDEYAIFLTCKFSRHHGPTITAKLYGRAPQLRETLQDFRVVAQGVGIPEDSIF  
TMADRGECPGEQEPEPILIPRVRAVLPEEEEGSGGGQLVTEVTKKEDSCQLGYSAGPC  
MGMTSRYFYNGTSMACETFQYGGCMGNGNNFVTEKECLQTCRTVAACNLPIVRGPCRAFI  
QLWAFDAVKGKCVLPFYGGCQNGNKFYSEKECREYCGVPGDGEELLRFSN

>sp|Q8N7J2|AMER2\_HUMAN APC membrane recruitment protein 2 OS=Homo sapiens GN=AMER2 PE=1 SV=3

METSRSRGGGGAVSERGGAGASVGVCRRAEAGAGTGTAAADMDLHCDCAAETPAAEPPS  
GKINKAAFKLFKKRSGGTMPISFGVKNKGDGKSSGPTGLVRSRTHDGLAEVLVLESGRK  
EEPRGGGDSGGGGGGRPNPGPPRAAGPGGSLASSSVAKSHSFFSLLKKNRSENGKGEP  
VDASKAGGKQKRGLRGLFSGMRWHRKDKRAKAEAAEGRAPGGGLILPGSLTASLECVKEE  
TPRAAREPEEPSQDAPRDPAGEPAGGEEVPAPADRAPARSCREAEGLAHPGDTGARGEDA  
AGHRAEPGPGEVRTAEDASRTGAVPVKTVPLVDSEGGSGRAPAAPDPASVDPPSDPSAD  
RICLMFSDVTSLSFDSLTCGGDIADQEEEAGPSCDKHVPGPGLSKKNPGVVAYQG  
GGEEMASPDEVDITYLQEFWMLSQTEEQGPEPQGAAGVAAALETKVVPETPKDTRCVE  
AAKDASSVKRRRLNRIPHPKEEPKHPEKEQEGVPNSDEGYWDSTTPGPEEDSSSSG  
KKAGIPRDSYSGDALYDLYADPDGSPATLPGGKDNEETSSLSRLKPVSPGTITCPLRTPG  
SLLKDSKIPISIKHLTNLPSSHPVVHQPSRSEMPRTKIPVSKVLVRRVSNRGLAGTTIR  
ATACHDSAKKL

>sp|Q16671|AMHR2\_HUMAN Anti-Muellerian hormone type-2 receptor OS=Homo sapiens GN=AMHR2 PE=1 SV=1

MLGSLGLWALLPTAVEAPPNRRTCFFEAPGVRGSKTLGELLDTGTELPRAIRCLYSRC  
CFGIWNLTDRAQVEMQGCSDSEPGCESLHCDPSRAHPSPGSTLFTCSCGTDFCNANY  
SHLPPPGSPGTPGSQGPQAAPGESIWMALVLLGLFLLLLLLLSIIALLQRKNYVRGE  
PVPEPRPDSGRDWSVELQELPELCFSQVIREGGHAVVWAGQLQGKLVAIKAFPPRSVAQF  
QAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLLVLELHPKGSLSCHYLTYTSDWGS  
SLRMALSLAQLAFLHEERWQNGQYKPGIAHRDLSSQNVLIREDGSCAIGDLGLALVLP  
LTQPPAWTPTQPGPAAIMEAGTQRYMAPELLDKTLDLQDWGMALRRADIYSLALLWEI  
LSRCPDLRPDSSPPPFQLAYEAEELGNTPTSDELWALAVQERRRPYIPSTWRCFATDPDGL  
RELLEDWCWDADPEARLTAECVQQLAALAHQPESHFPESCPRGCPPLCPEDCTSIPAPT  
ILPCRPPQRSACHFSVQQGPCSRNPQPACTLSPV

>sp|Q01433|AMPD2\_HUMAN AMP deaminase 2 OS=Homo sapiens GN=AMPD2 PE=1 SV=2

MRNRGQGLFRLRSRCLHQLSLPLGAGRRKGLDVAEPGPSRCRSDSPAAVVPAMASYPS  
GSGKPKAKYPFKKRSLQASTAAPEARGLGAPPLQSARSLPGPAPCLKHFPLDLRTSMD  
GKCKEIAEELFTRSLAESELRSAPYEFPEESPIEQLEERRQLERQISQDVKLEPDILLR  
AKQDFLKTDSDDLQLYKEQEGGQDRSLRERDVLEREFQRVTTISGEEKCGVPFTDLLDA  
AKSVVRALFIREKYMALSLQSFCTTTRYLQQLAEKPLETRTYEQGPDTPVSADAPVHPP  
ALEQHPYEHCEPSTMPGDLGLGLRMVRGVVHVYTRREPDEHCSEVELPYPDLQEFVADVN  
VLMALIINGPIKSFYRRLQYLSKQFMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHIH  
ASSCMNQKHLRFIKRAMKRHLEEIVHVEQGREQTLREVFESMNLTAYDLSVDTLDVHAD  
RNTFHRFDKFNAYNPIGESVLREIFIKTDNRVSGKYFAHIIKEVMSDLEESKYQNAELR  
LSIYGRSRDEWDKLARWAVMHRVHSPNVRWLQVPRLFDVYRTKGQLANFQEMLENIFLP  
LFEATVHPASHPELHLFLEHVDGFDSVDDSKPENHVFNLESPLPEAWVEEDNPPYAYYL  
YYTFANMAMNLHRRQRGFHTFVLPHCGEAGPIHHLVSFAMLAENISHGLLLRKAPVLQ  
YLYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQHFHTKEPLMEEY  
SIATQVWKLSSCDMCELARNSVLMGFSHKVKSHWLGPNTYKEGPEGNDIRRTNVPDIRV  
GYRYETLCQELALITQAVQSEMLETIPEEAGITMSPGPQ

>sp|P49418|AMPH\_HUMAN Amphiphysin OS=Homo sapiens GN=AMPH PE=1 SV=1

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RGYLAAIKGMQEASMKLTESLHEVYEPDWYGREVDKMGVEKCDVLWEDFHQKLVDGSLLT  
LDTYLGQFPDIKNRIAKRSRKLVDYDSARHHLEALQSSKRKDESRISKAEEEFQKAQKVF  
EEFNVDLQEELPSLSRRVGFYVNTFKNVSSLEAKFHKEIAVLCHKLYEVMTKLGDQHAD  
KAFTIQGAPSDSGPLRIAKTPSPPEEPSPLPSPTASPNHTLAPASPAPARPRSPSQTRKG  
PPVPPLPKVTPTKELQQENIISFFEDNFVPEISVTTSPSQNEVPEVKKEETLLDLDFDPFK  
PEVTPAGSAGVTHSPMSQTLPWDLWTTSTDLVQPASGGSFNGFTQPQDTSLFTMQTDQSM  
ICNLAESEQAPPTPEKAEPLAAVTPAVGLDLGMDTRAEEPVEEAVIIPGADADAAGVTL  
VSAAEGAPGEEAEAEKATVPAGEGVSLEEAKIGTETTEGAESAQPEAELEATVPQEKVI  
PSVVI EPASNHEEENEITIGAEPKETTEDAAPPGPTSETPELATEQKPIQDPQPTPSA  
PAMGAADQLASAREASQELPPGFYKVELTHDFEAANSDELTLQRGDVVLVVPDSEADQ  
DAGWLGVKESDWLQYRDLATYKGLFPENFTRRLD

>sp|Q9C0C7|AMRA1\_HUMAN Activating molecule in BECN1-regulated autophagy protein 1 OS=Homo sapiens GN=AMBRA1 PE=1 SV=2

MKVVPKNAVRILWGRERGARAMGAQRLLQELVEDKTRWMKWEGRVELPDSRSTFLLA

FSPDRTLLASTHVNHNIYITEVKTGKCVHSLIGHRRTPWCVTFHPTISGLIASGCLDGEV  
RIWDLHGGSESWFTDSNNAIASLAFHPTAQLLLIATANEIHFWDWSRREPFVAVKTASEM  
ERVRLVRFDPLGHYLLTAIVNPSNQGDDEPEIPIDGTELSHYRQRALLQSQPVRRTPLL  
HNFLHMLSSRSSGIQVGEQSTVQDSATSPPPPPPPQSTERPRTSAYIRLRQVSYPTAE  
CCQHLGILCLCSRCSGTRVPSLLPHQDSVPPASARATTPSFVQTEPFHPPEQASSTQQ  
DQGLLRNPSAFSTVQSSTAGNTRLNLSLGPTRRSLGGPLSSHPSRYHREIAPGLTGSEWT  
RTVLSLNSRSEAESMPPTASASSVLLSVLRQQEGGSQASVYTSATEGRGFPASGLATE  
SDGGNGSSQNNSGIRHELQCDLRRFFLEYDRLQELDQSLSGEAPQTQQAQEMLNNNIES  
ERPGPSHQPTPHSSENNLSRGLNRCRACHNLLTFNNDTLRWERTTPNYSSGEASSSW  
QVPSSFESVPSSGSQLPPLERTEGQTPSSSRLELSSSASPQEERTVGVAFNQETGHWERI  
YTQSSRSGTVSQEALHQDMPEESSEEDSLRRRLLESSLISLSRYDGAGSREHPIYPDPAR  
LSPAAYYAQRMIQYLSRRDSIRQRSMRYQQNRLRSSTSSSSSDNQGPSVEGTDLEFEDFE  
DNGDRSRHRAPRNARMSAPSLGRFVPRRFLPEYLPYAGIFHERGQPLATHSSVNRVLA  
GAVIGDGQSAVASNIANTTYRLQWWDFTKFDLPEISNASVNVLVQNCKIYNDASCDISAD  
GQLLAAFIPSSQRGFPEDEILAVYSLAPHNLGEMLYTKRFGPNAISVSLSPMGRYVMVGL  
ASRRILLHPSTEHMVAQVFRLQQAHHGETSMRRVFNVLYPMPADQRRHVSINSARWLPEP  
GLGLAYGTNKGDLVICRPEALNSGVEYYWDQLNETVFTVHSNSRSGRPGTSRATWRTRDR  
DMGLMNAIGLQPRNPATSVTSQGTQTLALQLQNAETQTEREVPEPGTAASGPGESEY  
GASGEDALSRIQRLMAEGGMTAVVQREQSTTMASMGFGNNIIVSHRIHRSSQTGTEPGA  
AHTSSPQPSTSRGLLPEAGQLAERGLSPRTASWDQPGTPGREPTQPTLPSSSPVIPVSL  
PSAEGPTLHCELNNHLLDGGSSRGDAAGPRGEPRNR

>sp|P04746|AMYP\_HUMAN Pancreatic alpha-amylase OS=Homo sapiens GN=AMY2A PE=1 SV=2

MKFFLLLTFTIGCWAQYSPNTQQGRTSIVHLFEWRWVDIALECERYLAPKGFQVQVSP  
NENVAIYNPFRPWWERYQPVSYLCTRSGNEDEFNMVTRCNVGVRIYVDAVINHMCGN  
AVSAGTSSTCGSYFNPGRDFPAVPYSGWDFNDGKCKTGSGDIENYNDATQVRDCRLTGL  
LDLALAEKDYVRSKIAEYMNHLIDIGVAGFRLDASKHMWPGDIKAILDKLHNLNSNWFAG  
SKPFIYQEVIDLGGEPIKSSDYFGNGRVTEFKYGAKLGTVIRKWNKEKMSYLNWGEQWG  
FVPSDRALVFVDNHDNRQGHGAGGASILTFWDARLYKMAVGFMALHPYGFTRVMSSYRWP  
RQFQNGNDVNDWVGPNNNGVIKEVTINPDTCGNDWVCEHRWRQIRNMVIFRNVVDGQP  
FTNWDNGSNQVAFGRGNRGFIVFNDDWSFSLTLQTGLPAGTYCDVISGDKINGNCTGI  
KIYVSDDGKAHFSISNSAEDPFIATHAESKL

>sp|Q6ZTN6|AN13D\_HUMAN Ankyrin repeat domain-containing protein 13D OS=Homo sapiens  
GN=ANKRD13D PE=1 SV=2

MVQLVLQYRDYQRATQRLAGIPELLNKLQAPDFYVEMKWEFTSWVPLVSKMCPSDVYRV  
WKRGESLRVDTSLGFEHMTWQRGRSFIFKGQEAGALVMEVDHDRQVHVETLGLTLQE  
PETLLAAMPSEEHVASRLTSPIVSTHLDTRNVAERNKCGIWGRSEKMETVSGYEAKV  
YSATNVELVTRTRTEHLSQDKSRKAGKTPFQSFLGMAQQHSSHTGAPVQQAASPTNPT  
AISPEEYFDPNFSLESRNIGRPIEMSSKVQRFKATLWLSEEHPLSLGDQVTPIIDLMAIS  
NAHFAKLKRDITLRLPPGFVKIEIPLFHVNLARITFSNLGCGDEPLSSVWVPAPSSAVA  
ASGNPFPCEVDPTVFVPPNGYSVLGMRNEPLRDEDDLLQFAIQQSLEAGTEAEQVTV  
WEALTNTRPGARPPPQATVYEEQLQLERALQESLQLSTEPRGPGSPPTPPAGPPSFEE  
QLRLALELSSREQEERERRGQEEEDLQRIQLSLTEH

>sp|Q9BXX2|AN30B\_HUMAN Ankyrin repeat domain-containing protein 30B OS=Homo sapiens  
GN=ANKRD30B PE=2 SV=3



MKRLLAAAGKGVRGPEPPNPFSEYVTEKDYGTYIFGDLGKIHTAASRGVQKLEKMTVG  
KKPVNLNKRDMKKRTALHWACVNGHAEVVTFLVDRKCQLNVL DGEGRTPLMKALQCEREA  
CANILIDAGADLNVDVYGNTALHYAVYSENLLMVATLLSYGAVIEVQNKASLTPLLLAI  
QKRSKQTVEFLLTKNANANAFNESKCTALMLAICEGSSEIVGMLLQQNVDVFAEDIHGIT  
AERYAAACGVNYIHQQLEHIRKLPKNPQNTNPEGTSTGTPDEAAPLAERTPDTAESLLE  
KTPDEAARLVEGTSAKIQCLGKATSGKFEQSTEETPRKILRPTKETSEKFSWPAKERSRK  
ITWEEKETSVKTECVAGVTPNKTEVLEKGTSNMIACPTKETSTKASTNVDVSSVEPIFSL  
FGTRTIENSQCTKVEEDFNLATKIISKSAQNYTCLPDATYQKDIKTINH KIEDQMFPS  
SKREDEEYSWDSGSLFESSAKTQVCIPESMYQKVMEINREVEELPEKPSAFKPAVEMQK  
TVPNKAFELKNEQTLRAAQMFPSKQKDDEENSWDSESPCETVSQKDVYLPKATHQKEF  
DTLSGKLEESPVKDGLLKPTCGRKVSLPNKALELKDRETFKAESPDKDGLLKPTCGRKVS  
LPNKALELKDRETLKAESPDNDGLLKPTCGRKVSLPNKALELKDRETFKAAQMFPSKQ  
KDDEENSWDFESFLETLLQNDVCLPKATHQKEFDTLSGKLEESPDKDGLLKPTCGMKISL  
PNKALELKDRETFKAEDVSSVESTFSLFGKPTTENSQSTKVEEDFNLTKEGATKTVTGQ  
QERDIGI IERAPQDQTNKMPTSELGRKEDTKSTDSEIISVSDTQNYECLPEATYQKEIK  
TTNGKIEESPEKPSHFEPATEMQNSVPNKGLEWKNKQTLRADSTTL SKILDALPSCERGR  
ELKKNCEQITAKMEQTKNKFV LQKELSEAKEIKSQLENQKAKWEQELCSVRLTLNQEE  
EKRRNVDILKEKIRPEEQLRKKLEV KQLEQTLRIQDIELKSVTSNLNQVSHTHESENDL  
FHENCMLKKEIAMLKLEVATLKHQH QVKENKYFEDIKILQEKNAE LQMTLKLKQKTVTKR  
ASQYREQLKVLTAE NTMLTSKLKEKQDKEILETEIESHHPRLASALQDHDQSVTSRKNQE  
LAFHSAGDAPLQGI MNVDVSN TIYNNEVLHQPLYEAQRKSKSPKINLNYAGDDLRENALV  
SEHAQRDR CETQCQMKAEHMYQNEQDNVDKHTEQQESLEQKLFQLESKNRWLRQQLVYA  
HKKVNKSKVTINIQFP EMKMQRHLNEKNEEVFNYGNHLKERIDQYEKEKAEREVS IKKYK  
YFSNFLKESGLG

>sp|095626|AN32D\_HUMAN Acidic leucine-rich nuclear phosphoprotein 32 family member D  
OS=Homo sapiens GN=ANP32D PE=2 SV=2

MEMGKWIHLELRNRTPSDVKELFLDNSQSN EGKLEGLTDEFEELELLNTINIGLTSIANL  
PKLNKLLKLELSSNRASVGLVLA EKCPNL IHLNLSGNKIKDLSTIEPLKKLENLESIDL  
FTCEVTNLNNY

>sp|Q8N2N9|AN36B\_HUMAN Ankyrin repeat domain-containing protein 36B OS=Homo sapiens  
GN=ANKRD36B PE=1 SV=4

MERLCSDGFAPPHYI KPYHLKRIHRAVLRGNLEKLKYL LLLTYDANKRDRKERTALHLA  
CATGQPEMVHLLVSRRC ELNLC DREDRTPLIKAVQLRQEACATLL LQNGADPNITDVFGR  
TALHYAVYNEDTSMIEKLLSHG TNIEESKNEYQPLLLAVSRRKVKMVEFLLKKKANVNA  
IDYLGRSALILAVTLGEKD I VILLQHNI DVFSRDVYGKLAEDYASEAENR VIFDLIY EY  
KRKRYEDLPINSNPVSPQKQRAEKATSDDKDSVSNIATEIKEGPISGTVSSQKQPAEKAT  
SDEKDSVSNIATEIKEGQQSGTVSPQKQSAQK VIFKKKVSLLNIATRIMG GKGSGTVSSQ  
KQPASKTASDKTDSALNTATEIKDGLQCGTVSSQKQ QALKATTDEEGSVSNIATEIKDGE  
KSGTVSSQKPKALKATSDEKDSFSNITREKKDGEISRTVSSQKPPALKATSVKEDSVLNI  
AREKKDGEKSRTVSFEQPPGLKATREKDSLLNIARGKKDGEKTRRVSSHQPSLKATSD  
KEDSVPNMATETKDEQISGTVSCQKQPAL KATSDKKDSVSNIPT EIKDGQQSGTVSSQKQ  
PAWKATSVKKDSVSNIATEIKDGQIRGTVSSQRRPAL KTTGDEKDSVSNIAREIKDGEKS  
GTVSPQKQSAQK VIFKKKVSLLNIATRITGGKSGTEYPENLR TLKAT IENKDSVLNTAT  
KMKEVQTSTPAEQDLEMASEGEQKRLEEYENNPQVKNQIHSRDDLD DDI IQSSQTVSE DG

DSLCCNCKNVILLIDQHEMKCKDCVHLLKIKNTFCLWKRLIKLKNHCEQLRVKIRKLKN  
KASVLQKRRISEKEEIKSQLKHEILELEKELCSLRFAIQEKKKRRNVEELHQKVREKLRI  
TEEQYRIEADVTKPIKPAKLSAEVELKTGGNNSNQVSETDEKEDLLHENRLMQDEIARLR  
LEKDTIKNQNLKKYLDKDFEIVKRKHEDLQKALKRNGETLAKTIACYSGQLAALTDENTT  
LRSKLEKQRESRQRLETEMQSYRCRLNAARCDHDQSHSSKRDQELAFQGTVDKCRHLQEN  
LNSHVILSLQLSKAESKSRVLKTELHYTGEALKEKALVFEHVQSELKQKQSQMKDIEKM  
YKSGYNTMEKCKIEKQERFCQLKKQNMLLQQQLDDARNKADNQEKAAILNIQARCDARVQNL  
QAECKRHRLLEEDNKMLVNELNHSKEKECQYEKEKAEREVAVRQLQKQRDDVLNKGSA  
KALLDASSRHCTYLENGMQDSRKLDQMRSQFQEIQDQLTATIRCTKEMEGDTQKLEVEH  
VMMRKIIKKQDDQIERLEKILQHSSLMLQVFES

>sp|Q9NU02|ANKE1\_HUMAN Ankyrin repeat and EF-hand domain-containing protein 1 OS=Homo sapiens GN=ANKEF1 PE=2 SV=2

MALADKRLENLQIYKVLQCVRNKDKKQIEKLTCLGYPELINYTEPINGLSALHLASVSND  
IDMVSFLLDLGAHPDVQDRMGCTPTMRAAELGHELSMEILAKAKADMTIVDNEGKGVLFY  
CILPTKRHYRCALIALEHGADVNNSTYEGKPIFLRACEDAHVDKDVCLTFLEKGANPNAI  
NSSTGRTALMEASREGVVEIVRGILERGGEVNAFDNDRHHAHFAAKGGFFDILKLLFAY  
NGDVGLISINGNTPLHYAAMGGFADCKYIAQRGCDLKWKNLDHKTPRAVAKEGGFKAAS  
KEIRRAERIANKLARPGAKNPPLWALRLHDWSVEREAFLEAFVLDRGDGSISKNDV  
MVLEERQDYASSEQLAAIAHLHEKTRGGGVNINEFFKGTRYLNKSFVLGSYGPKKKEKGM  
GKKGKKGKGFVLPLPICVIEYAFPRRQDGGPPYYMIETYKNVTDSSRFNRDHPPEHPIQD  
DSVWYIDDSEKVFNSINIIITKAGDLASLKAFESGIPVDMKDNYYKTPLMTACASGNIDV  
VKFLLEKGANVNATDNFLWTPHFACHAGQQDIVELLVESGALIDAASINNSTPLNRAIE  
SCRLDTVKYLLDIGAKFQLENRKGHSAMDVAKAYADYRIIDLIEKLDNLPKPAENQKLK  
GKTPPILKTEGPEIKKEEELLSSIIYGVPTTSEGKKVQKGNVVHLNSLITSGYTKKVDITF  
IPRRIWSPEATTAEILRKRELRERFTHVEVDFDDFMMPFQKNITEKARALEAALKT

>sp|Q9NW15|ANO10\_HUMAN Anoctamin-10 OS=Homo sapiens GN=ANO10 PE=1 SV=2

MKVTLALDTSSESTPLVVIELAQDVKEETKEWLKNRIIAKKKGGAQLFRPLLNKYE  
QETLENQNLVLVGASKIRMLLGAEAVGLVKECNDNTMRAFTYRTRQNFKGFDDNDDFLT  
MAECQFIKHELENLRAKDEKMIPGYPQAKLYPGKSLLRRLTSGIVIQVFPLHSEALK  
KLEDTWYTRFALKYQPIDSIIRGYFGETIALYFGFLEYFTFALIPMAVIGLPYYLFWEDY  
DKYVIFASFNLIWSTVILELWKRGCANMTYRWGTLLMKRKFEEPRPGFHGVLGINSITGK  
EEPLPSYKRLRIYLVSLPFVCLCLYFSLYVMMIYFDMEVWALGLHENSSEWTSVLLY  
VPSIIYAIVIEIMNRLYRYAAEFTSWENHRLESAYQNHILKVLVFNFLNCFASLFYIA  
FVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGVRVVRKVQALKADIDATLYE  
QVILEKEMGTYLGTDFDYELFLQFGYVSLFSCVYPLAAAFVNLNFTEVNSDALMKCRV  
FKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQVNAVFPESKADLILIVAVEH  
ALLALKFILAFAIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEEPMESGKEKAT

>sp|Q32M45|ANO4\_HUMAN Anoctamin-4 OS=Homo sapiens GN=ANO4 PE=2 SV=1

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LFDELEAVSSPCKDDSLHLPGLNTSTSDASRLEAGGETVPERNKSNGLYFRDGKCRID  
YILVYRKSNPQTEKREVFERNIRAEGQMEKESSLINSDIIFVKLHAPWEVLGRYAEQMN  
VRMPFRRKIYYLPRRYKFMSRIDKQISRFRRWLPKKPMRLDKETLPDLEENDCYTAPFSQ  
QRIHHFIIHNKETFFNNATRSRIVHHILQRIKYEKGKNGKIGLNRLLTNGSYEAAFPLHEG  
SYRSKNSIRTHGAENHRHLLYECWASGWVYKYQPLDLVRRYFGEKIGLYFAWLGWYTGM

LFPAAFIGLVFVLYGVTTLDHSQVSKEVCQATDIIMCPVCDKYCPFMRLSDSCVYAKVTH  
LFDNGATVFFAVFMAVWATVFLEFWKRRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKKE  
RMNPISGKPEPYQAFDTDKCSRLIVSASGIFFMICVVIAAVFGIVIRVTVSTFAAFKWA  
LIRNNSQVATTGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQ  
FVNLNSSTFYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQMGIIMVLKQW  
NNFMELGYPLIQNWWTRRKVRQEHPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQF  
GFTTIFVAAPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIYGILEGIGIL  
SVITNAFVIAITSDFIPRLVYAYKGPCAGQGEAGQKCMVGYNASLSVFRISDFENRSE  
PESDGSEFSGTPLYCRYRDYRDPHSLVPYGYTLQFWHVLAAARLAFIIVFEHLVFCIKH  
LISYLIPDLPKDLRDRMRREKYLIQEMMYEALERLQKERKERKKNNGKAHHNEWP

>sp|Q4KMQ2|ANO6\_HUMAN Anoctamin-6 OS=Homo sapiens GN=ANO6 PE=1 SV=2

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FFNDGQRRIDFVLVYEDESRETNNKGTNEKQRRKRQAYESNLICHGLQLEATRSVLDDK  
LVFVKVHAPWEVLCTYAEIMHIKLPKPNLKNRSSAFGLNWF TKVLSVDESI IKPEQE  
FFTAPFEKNRMNDFYIVDRDAFFNPATRSRIVYFILSRVKYQVINNVSKFGINRLVNSGI  
YKAAFPLHDCKFRRQSEDPSCPNERYLLYREWAHPRSIYKKQPLDLIRKYYGEKIGIYFA  
WLGYYTQMLLLAAVVGACFLYGYLNQDNCTWSKEVCHPDIGGKIIMCPQCRLCPFWKL  
NITCESSKKLCIFDSFGTLVFAVFMGVWVTLFLEFWKRRQAELEYEWDTVELQQEEQARP  
EYEARCHVINEITQEEERIPFTAWGKCIRITLCASAVFFWILLIIASVIGIIVYRLSV  
FIVFSAKLPKNINGTDPIQKYLTPQTATSITASIISFIIIMILNTIYEKVAIMITNFELP  
RTQTDYENSLTMKMFLFQFVNYYSSCFYIAFFKGKFGVGPDPVYWLGYRNEECDPGGC  
LLELTTLTIIMGGKAIWNNIQEVLLPWIMNLIGRFHRVSGSEKITPRWEQDYHLQPMGK  
LGLFYEYLEMI IQFGFVTLFVASFPLAPLLALVNNILEIRVDAWKLTQFRRLVPEKAQD  
IGAWQPIMQGIAILAVVTNAMIIFTSDMIPRLVYYWSFSVPPYGDHTSYTMEGYINNTL  
SIFKVADFKNKSGNPYSDLGHTTCRYRDFRYPPGHPQEYKHNIYYWHVIAAKLAFIIV  
MEHVIYSVKFFISYAIPDVSKRTKSKIQREKYLTKLLHENHLKDMTKNMGVIAERMIEA  
VDNNLRPKSE

>sp|Q5VYY1|ANR22\_HUMAN Ankyrin repeat domain-containing protein 22 OS=Homo sapiens  
GN=ANKRD22 PE=2 SV=1

MGILYSEPICQAAYQNDFGQVWRWVKEDSSYANVQDGFNGDTPLICARRGHVRIVSFLL  
RRNANVNLKNQKERTCLHYAVKKKFTFIDYLLIILLMPVLLIGYFLMVSKTKQNEALVRM  
LLDAGVEVNATDCYGTALHYACEMKNQSLIPLLEARADPTIKNKHGESSLDIARRLKF  
SQIELMLRKAL

>sp|Q8N8V4|ANS4B\_HUMAN Ankyrin repeat and SAM domain-containing protein 4B OS=Homo sapiens  
GN=ANKS4B PE=1 SV=2

MSTRYHQAASDSYLELLKEATKRDLNLSDEDGMTPTLLAAYHGNLEALEIICSRGGDPDR  
CDIWGNTPLHFAASNGHAHCVSFLVNFGANIFALDNDLQTPLDAAASREQNECVALLDKA  
ATAQNIMNPKKVTRLKEQAQKNARRQIKECERLQEKHQNKMAHTYSKEESGTLSSSKGTF  
SRSSPSNASAPGTFGSLSGIKDTFKIKFKKNKDTAEQVGKEGRSGQRNVMEVFREEED  
SFSGDFKEKLQLSAEEDGSVHHESILNRPLGSIIVRRNRISSPEDISDSKREFGFKLPS  
ELLQRQGASEADEGADEEGEENGLKDDL PWDDDEVEWEEDVVDATPLEVFLLSQHLEEF  
LPIFKREQIDLEALLCSDEDLQSIQMLGPRKKVLNAINRRKQVLQPGQLVDTSL

>sp|Q9BXS5|AP1M1\_HUMAN AP-1 complex subunit mu-1 OS=Homo sapiens GN=AP1M1 PE=1 SV=3

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KHNNLYLVATSKKNACVSLVFSFLYKVVQVFSEYFKELEEEESIRDNFV I IYELLDELMDF  
GYPQTTSKILQEYITQEGHKLETGAPRPPATVTNAVSWRSEGIKYRKNEVFLDVIESVN  
LLVSANGNVLRSEIVGSIKMRVFLSGMPELRLGLNDKVLFDNTGRGKSKEVELEDVKFHQ  
CVRLSRFENDRTISFIPPDGEFELMSYRLNTHVKPLIWIIESVIEKSHSRIEYMIKAKSQ  
FKRRSTANNVEIHIPVPNDADSPKFKTTVGSVKWVPENSEIVWSIKSFPGGKEYLMRAHF  
GLPSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQALPWVRYITQNGDYQL  
RTQ

>sp|Q92754|AP2C\_HUMAN Transcription factor AP-2 gamma OS=Homo sapiens GN=TFAP2C PE=1 SV=1  
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PPPYQQLAYSQSADPYSHLGEAYAAAINPLHQAPPTGSQQQAWPGRQSQEGAGLPSHHGR  
PAGLLPHLSGLEAGAVSARRDAYRRSDLLLPHAAHALDAAGLAENLGLHDMPHQMDEVQNV  
DDQHLLLDHQTIVIRKGPISMTKNPLNLPCQKELVGAVMNPTEVFCVPGRLSLLSSTSKY  
KVTVAEVQRRISPPECLNASLLGGVLRRAKSKNGGRSLREKLDKIGLNLPAARRKAAHVT  
LLTSLVEGEAVHLARDFAYVCEAEFSPKPVAEYLTRPHLGGRNEMAARKNMLLAAQQLCK  
EFTELLSQDRTPHGTSLAPVLETNIQNCLSHFSLITHGFGSQAICAAVSALQNYIKEAL  
IVIDKSYMNPQDQSPADSNKTLEKMEKHRK

>sp|Q96CW1|AP2M1\_HUMAN AP-2 complex subunit mu OS=Homo sapiens GN=AP2M1 PE=1 SV=2  
MIGGLFIYNHKGVLISRVYRDDIGRNAVDAFRVNIHARQQVRSPVTNIARTSFFHVKR  
SNIWLAAVTKQNVNAAMVFELYKMCDMAAYFGKISEENIKNNFVLIYELLDEILDFGY  
PQNSETGALKTFITQQGIKSQHQTKKEEQSQITSQVTGQIGWRREGIKYRRNELFLDVLES  
VNLLMSPQGQVLSAHVSGRVVMKSYLSGMPECKFGMNDKIVIEKQKGKTADETSKSGKQS  
IAIDDCFHQCVRLSKFDSERSISFIPPDGEFELMRYRTTKDIILPFRVIPLVREVGRTK  
LEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKASENAIVWKIKRMAG  
MKESQISAEIELLPTNDKKKWARPPISMNFEVFPAPSGLVRYLKVFEPLNYSDDHVIK  
WVRYIGRSGIYETRC

>sp|P53680|AP2S1\_HUMAN AP-2 complex subunit sigma OS=Homo sapiens GN=AP2S1 PE=1 SV=2  
MIRFILIQNRAGKTRLAKWYMQFDDDEKQKLIEEVHAVVTVRDAKHTNFVEFRNFKI IYR  
RYAGLYFCICVDVNDNNLAYLEAIHNFVEVLNEYFHNVCELDVLVFNFYKVYTVVDEMFLA  
GEIRETSQTKVLKQLLMLQSLE

>sp|O43299|AP5Z1\_HUMAN AP-5 complex subunit zeta-1 OS=Homo sapiens GN=AP5Z1 PE=1 SV=2  
MFSAGAESLLHQAREIQDEELKKFCSRICKLLQAEDLGPDTLDSLQRLFLIISATKYSRR  
LEKTCVDLLQATLGLPACPEQLQVLCAAILREMSPSDSLAWDHTQNSRQLSLVASVLL  
AQGDRNEEVRAVGQGVLRALERSQPEGPSLRHLLPVMKVVVLSPGTLQEDQATLLSKRL  
VDWLRYASLQQGLPHSGGFSTPRARQPGPVTEVDGAVATDFFTVLSSGHRFTDDQWLVN  
QAFSMLRAWLLHSGPEGPTLDTDDRSEQEGSTLSVISATSSAGRLPPRERLREVAFEY  
CQRLIEQSNRRALRKGDSDLQACLVEAVLVLDVLCRQDPSFLYRSLCLKALHGRVRGD  
PASVRVLLPLAHFFLSHGEEAAVDSEAVYQHLFTRIPVEQFHSPMLAFEFIQFCRDNLHL  
FSGHLSTLRLSFPNLFKFLAWNSPPLTSEFVALLPALVDAGTALEMLHALLDLPCLTAVL  
DLQLRSAPAASERPLWDTSLRAPSCLEAFRDPQFQGLFQYLLRPKASGATERLAPLHQLL  
QPMAGCARVAQCAQAVPTLLQAFFSAVTQVADGSLINQLALLLLGRSDSLYPAGYAAGV  
HSVLSQFLALCTLKPSLVVELARDLLEFLGSVNLCSRASLVTSVVAIGEYLSVTYDR  
RCTVEQINKFFEALAEALLFEVTQCRPSAALPRCPPQVTVLMTTLTKLASRSQDLIPRAS  
LLLSKMRTLHASPATSSTHSEGEAEAIRTRATELLTLLKMPSVAQFVLTPSTEVCSPRYH  
RDANTALPLALRTVSRLVEREAGLMPG

>sp|Q9BS18|APC13\_HUMAN Anaphase-promoting complex subunit 13 OS=Homo sapiens GN=ANAPC13  
PE=1 SV=1

MDSEVQRDGRILDLIDDAWREDKLPYEDVAIPLNELPEPEQDNGGTESVKEQEMKWTDL  
ALQYLHENVPPIGN

>sp|Q9UJX4|APC5\_HUMAN Anaphase-promoting complex subunit 5 OS=Homo sapiens GN=ANAPC5 PE=1  
SV=2

MASVHESLYFNPMMTNGVVHANVFGIKDWVTPYKIAVLVLLNEMSRTGEGAVSLMERRRL  
NQLLLPLLQGPDITLSKLYKLIIEESCPQLANSVQIRIKLMAEGELKDMEQFFDDLSDSFS  
GTEPEVHKTSVVGLFLRHMILAYSKLSFSQVFKLYTALQQYFQNGEKKTVEDADMELTSR  
DEGERKMEKEELDVSVREEVSCSGPLSQKQAEFFLSQQASLLKNDETALTPASLQKEL  
NNLLKFNPDFAEAHYLSYLNLRVQDVFSSTHSLHYFDRLILTGAESKSNGEEGYGRSL  
RYAALNLAALHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRSDSYVL  
LEHSVKKAVHFGLPYLASLGIQSLVQQRAFAGKTANKLMDALKDSDLHWHKHSLELIDI  
SIAQKTAIWRLYGRSTMALQQAQMLLSMNSLEAVNAGVQQNNTESFAVALCHLAELHAEQ  
GCFAAASEVLKHLKERFPPNSQHAQLWMLCDQKIQFDRAMNDGKYHLADSLVTGITALNS  
IEGVYRKAVVLQAQNMSEAHKLLQKLLVHCQKLKNTMVISVLLSVAELYWRSSSPTIA  
LPMLLQALALSKEYRLQYLASETVNLAFACLILGIPEQALSLLHMAIEPILADGAILDK  
GRAMFLVAKCQVASAASYDQPKKAEALEAAIENLNEAKNYFAKVDCKERIRDVVYFQARL  
YHTLGKTQERNRCAMLFRQLHQELPSHGVP LINHL

>sp|Q9ULZ1|APEL\_HUMAN Apelin OS=Homo sapiens GN=APLN PE=2 SV=1

MNRLRCVQALLLWLSLTAVCGGSLMPLPDGNGLEDGNVRHLVQPRGSRNGPGPWQGGRR  
KFRRQRPRLSHGKPMF

>sp|P27695|APEX1\_HUMAN DNA-(apurinic or apyrimidinic site) lyase OS=Homo sapiens GN=APEX1  
PE=1 SV=2

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKNDKEAAGEGPALYEDPPDQKTSPSGKPA  
TLKICSWNVDDLRAWIKKKGLDWVKEEAPDILCLQETKCSNKLPALQELPGLSHQYWS  
APSDKEGYSGVGLLSRQCPLKVSYGIGDEEHDQEGRVIVAEFDSFVLVTAYVPNAGRGLV  
RLEYRQRWDEAFRFLKGLASRKPLVLCGDLNVAHEEIDLRNPKGNKKNAGFTPQERQGF  
GELLQAVPLADSFRHLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI  
RSKALGSDHCPITLYLAL

>sp|P35414|APJ\_HUMAN Apelin receptor OS=Homo sapiens GN=APLNR PE=1 SV=1

MEEGGDFDNYYGADNQSECEYTDWKSSGALIPAITYMLVFLGTTGNGLVLWTVFRSSREK  
RRSADIFIASLAVADLTFVVTLPWATYTYRDYDWPFGTFCKLSSYLIFVNMYASVFCL  
TGLSFDRYLAIVRPVANARLRLRVSGAVATAVLWVLAALLAMPVMVLRTTGDLENTTKVQ  
CYMDYSMVATVSSEWAVEVGLGVSTTVGFVVPFTIMLTICYFFIAQTIAGHFRKERIEGL  
RKRRRLLSIIIVLVVTFALCWMPYHLVKTLYMLGSLLHWPCDFDLFMNIFPYCTCISYV  
NSCLNPFLYAFFDPRFRQACTSMLCCGQSRCAGTSHSSSGEKSASYSSGHSQGPGPNMGK  
GGEQMHEKSIPYSQETLVVD

>sp|P04745|AMY1\_HUMAN Alpha-amylase 1 OS=Homo sapiens GN=AMY1A PE=1 SV=2

MKFLWLLFTIGFCWAQYSSNTQQGRTSIVHLFEWRWVDIALECERYLAPKGFGGVQVSPP  
NENVAIHNPFRPWWERYQPVSYLCTRSGNEDEFNMVTRCNVGVRIYVDAVINHMCN  
AVSAGTSSTCGSYFNPGRDFPAVPYSGWDFNDGKCKTGSGDIENYNDATQVRDCRLSGL  
LDLALGKDYVRSKIAEYMNHLIDIGVAGFRIDASKHMWPGDIKAILDKLHNLNSNWFPEG  
SKPFIYQEVIDLGGEPIKSSDYFGNGRVTEFKYGAKLGTVIRKWNGEKMSYLNWGEGWG

FMPSDRALVFVDNHDNQRGHGAGGASILTFWDARLYKMAVGFMALHPYGFTRVMSSYRWP  
RYFENGKDVNDWVGPPNDNGVTKEVTINPD TTCGNDWVCEHRWRQIRNMVNFRNVVDGQP  
FTNWDNGSNQVAFGRGNRGFIVFNDDWTFSLTLQTGLPAGTYCDVISGDKINGNCTGI  
KIYVSDDGKAHFSISNSAEDPFIAIHAESKL

>sp|P19961|AMY2B\_HUMAN Alpha-amylase 2B OS=Homo sapiens GN=AMY2B PE=1 SV=1

MKFFLLLTIGFCWAQYSPNTQQGRTSIVHLFEWRWVDIALECERYLAPKGFGGVQVSPP  
NENVAIHNPFRPWWERYQPVSYLCTRSGNEDEFRNMVTRCNVGVRIYVDAVINHMSGN  
AVSAGTSSTCGSYFNPGRDPAVPYSGWDFNDGKCKTGSGDIENYNDATQVRDCRLVGL  
LDLALAEKDYVRSKIAEYMNHLIDIGVAGFRLDASKHMWPGDIKAILDKLHNLNSNWFPA  
SKPFIYQEVIDLGGEPIKSSDYFGNGRVTEFKYGAKLGTVIRKWNGEKMSYLNWGEGWG  
FMPSDRALVFVDNHDNQRGHGAGGASILTFWDARLYKMAVGFMALHPYGFTRVMSSYRWP  
RQFQNGNDVNDWVGPPNNNGVIKEVTINPD TTCGNDWVCEHRWRQIRNMVNFRNVVDGQP  
FTNWDNGSNQVAFGRGNRGFIVFNDDWTFSLTLQTGLPAGTYCDVISGDKINGNCTGI  
KIYVSDDGKAHFSISNSAEDPFIAIHAESKL

>sp|Q86YJ7|AN13B\_HUMAN Ankyrin repeat domain-containing protein 13B OS=Homo sapiens  
GN=ANKRD13B PE=1 SV=4

MIPANASARKGPEGKYPLHYLVWHNRHRELEKEVRAGQVDIEQLDPRGRTPHLATTLGH  
LECARVLLAHGADVGRNRSWTVLQEAVSTRDLELVQLVLRDYRQVRVVKRLAGIPVLL  
EKLRKAQDFYVEMKWEFTSWVPLVSKICPSDTYKVWKSQNLRVDTTLLGFDHMTWQRGN  
RSFVFRGQDTSAVVMEIDHRRVVYTETLALAGQDRELLAAQPTEEQVLSRLTAPVVT  
TQLDTKNISFERNKTGILGWRSEKTEMVNGYEAKVYGASNELITRTRTEHLSEQHKGKV  
KGCKTPLQSFLGIAEQHGPPQNGTLITQTLSQANPTAITAEYFNPNFELGNRDMGRPME  
LTTKTQKFKAKLWLCEEHPLSLCEQVAPIIDLMAVSNALFAKLRFITLRLPPGFPVKIE  
IPIFHILNARITFGNLGCDEPVPSVRGSPSSETPSPGSDSSSVSSSSSTTSCRGCEISP  
ALFEAPRGYSMMGGQREAAATRDDDDLLQFAIQQLLEAGSEYDQVTIWEALNSKPGTH  
PMSYEGRRQDRSAPPTPQRQPAPPASVSPRPSSGPGSGGHVFRSYDEQLRLAMELSAQE  
QEERRRRARQEEEELERILRLSLTEQ

>sp|Q8IVF6|AN18A\_HUMAN Ankyrin repeat domain-containing protein 18A OS=Homo sapiens  
GN=ANKRD18A PE=2 SV=3

MRKLFSFGRRLGQALLSSMDQEYAGPGYDIRDWELRKIHRAAIKGDAAEVERCLTRRFRD  
LDARDRKDRTVLHLACAHRGVVTVLLHRRQCIDICRLNRTPLMKAVHSQEEACAIVL  
LECGANPNIEDIYGNTALHYAVYNGTSLAERLLSHHANIEALNKEGNTPLLFAINSRRQ  
HMVEFLLNQANIHAVDNFKRTALILAVQHNLSSIVTLLLQQNIRISSQDMFGQTAEDYA  
LCSDLRSIRQQILEHKNMKLNHLRNDNQETAAMKPANLKKRERAKAEHNLKVASEEKQ  
ERLQRSENKQPQDSQSYGKKKDAMYGNFMLKKDIAMLKEELYAIKNDLSRKEKKYIQEIK  
SITEINANFEKSVRLNEKMITKTVARYSQQLNDLKAENARLNSELEKEKHNERLEAEVE  
SLHSSLATAINEYNEIVERKDLELVWRADDVSRHEKMGSNISQLTDKNELLTEQVHKAR  
VKFNTLKGKLRETRDALREKTLALGSVQLDLRQAQHRKEMKQHPNGEAKESQSIGKQN  
SLEERIRQQELENLLERQLEDARKEGDNKEIVINIHRDCLENGKEDLLEERNKELMKEY  
NYLKEKLLQCEKEKAEREVIVREFQEELVDHLKTFSISESPLEGTSHCHINLNETWTSKK  
KLFQVEIQPEEKHEEFRKLFELISLLNYTADQIRKKNRELEEEATGYKKCLEMTINMLNA  
FANEDFSCHGDLNTDQLKMDILFKKLKQFNDLVAEKEAVSECVNLAKDNEVLHQELLS  
MRNVQEKCEKLEKDKMLEEVLNLKTHMEKDMVELGKLQEYKSELDERAVQEIEKLEEI  
HLQKQAEYEKQLEQLNKDNTASLKKKELTLKDVECKFSKMKTAYEEVTELEEFKEAFAG

AVKANNMSKKLMKSDKKIAVISTKLFTEKQRMKYFLSTLPTRPEPELPCVENLNSIELN  
RKYIPKTAIRIPTSNNPQTSNNCKNFLTEVLLC

>sp|P39687|AN32A\_HUMAN Acidic leucine-rich nuclear phosphoprotein 32 family member A  
OS=Homo sapiens GN=ANP32A PE=1 SV=1

MEMGRIHLELRNRTPSDVKELVLDNSRSNEGKLEGLTDEFEELEFLSTINVGLTSIANL  
PKLNKLLKLELSDNRVSGGLEVLAEKCPNLTHLNLSGNKIKDLSTIEPLKKLENLKSDDL  
FNCEVTNLNDYRENVFLLPQLTYLDGYDRDDKEAPSDAEGYVEGLDDEEEDEDEEYD  
EDAQVVEDEEDEDDEEEEGEEDVSGEEDEEGYNDGEVDDEEDELGEEERGQKRKRE  
PEDEGEDDD

>sp|O43423|AN32C\_HUMAN Acidic leucine-rich nuclear phosphoprotein 32 family member C  
OS=Homo sapiens GN=ANP32C PE=2 SV=1

MEMGRIHSELNRNAPSVDKELALDNSRSNEGKLEALTDEFEELEFLSKINGGLTSISDL  
PKLKLRLKLELRVSGGLEVLAEKCPNLTHLYLSGNKIKDLSTIEPLKQLENLKSDDLNFCE  
VTNLNDYGENVFLLQLTYLSDCYWDHKEAPYSDIEDHVEGLDDEEEGEHEEYDEDAQ  
VVEDEEGEEEEEGEEDVSGGDEEDEEGYNDGEVDGEDEEELGEEERGQKRK

>sp|Q5VTE6|ANGE2\_HUMAN Protein angel homolog 2 OS=Homo sapiens GN=ANGEL2 PE=2 SV=1

MEAWRCVRKGYGHCVVGRGRYPMPHHSRSLGRDWTTPWENLQRCCWNRHISSCMRWPGH  
YSRAPYPYFSSRHFSLNWRPPCLFESRTQFQYCNWRPDNLSQTSLIHLSSYVMNAEGDEP  
SSKRRKHQGVIKRNWEYICSHDKEKTKILGDKNVDPKCEDSENKFDVSVMSYNILSQDLL  
EDNSHLYRHCRPVLHWSFRFPNLIKIKHFDADVLCQEVQEDHYGAEIRPSLESGLYH  
CEYKMTGRKPDGCAICFKHSKFSLLSVNPVEFFRPDISLLDRDNVGLVLLQPKIPYAA  
CPAICVANHTLLYNPRRGDIKLTQLAMLLAEISSVAHQKDGSCPIVMCGDFNSVPGSPL  
YSFIKEGKLNYEGLPIGKVSQGQSSRGQRILSIPIWPPNLGISQNCVYEVQVQPKVEKT  
DSDLTQTQLKQTEVLVTAEKLSNLQHHSLSVSYSHYFPDTGIPEVTTCHSRSAITVDY  
IFYSAEKEDVAGHPGAVALVGGKLLARLSLLTEQDLWTVNGLPNENNSSDHLPLAKF  
RLEL

>sp|Q86XS5|ANGL5\_HUMAN Angiopoietin-related protein 5 OS=Homo sapiens GN=ANGPTL5 PE=2  
SV=3

MMSPSQASLLFLNVCIFICGEAVQGNVHHSTDSSVVNIVEDGSNAKDESKSNDTVCKED  
CEESCDVTKITREEKHFMCRNLQNSIVSYTRSTKKLLRNMMDEQQASLDYLSNQVNEML  
NRVLLLTTEVFRKQLDPFHRPVQSHGLDCTDIKDTIGSVTKTPSGLYIIHPEGSSYPFE  
VMCDMDYRGGGRTVIQKRIDGIIIDFQRLWCDYLDGFGDLLGEFWLGLKKIFYIVNQNTS  
FMLYVALESEDDTLAYASYDNFWLEDETRFFKMHLGRYSGNAGDAFRGLKKEDNQNAMPF  
STSDVDNDGCRPACLVNGQSVKSCSHLHNTGWFFNECGLANLNGIHHFSGKLLATGIQW  
GTWTKNNSPVKIKSVSMKIRRMYPYFK

>sp|O43827|ANGL7\_HUMAN Angiopoietin-related protein 7 OS=Homo sapiens GN=ANGPTL7 PE=1  
SV=1

MLKKPLSAVTWLCIFIVAFVSHPAWLQKLSKHKTPAQQLKAANCCEEVKELKAQVANLS  
SLLSELNKKQERDWSVVMQVMELESNSKRMESRLTDAESKYSEMNNQIDIMQLQAAQTV  
TQTSADAIYDCSSLYQKNYRISGVYKLPPDDFLGSPELEVFCDMETSGGGWTIIQRRKSG  
LVSFYRDWKYKQGFSGIRGDFWLGNHIIHRLSRQPTRLRVEMEDWEGNLRYAESHFVL  
GNELNSYRLFNGYTGNGVNDALQYHNNTAFSTKDKDNDNCLDKCAQLRKGGYWYNCCTD  
SNLNGVYYRLGEHNKHLDGITWYGVHGSTYSLKRVEMKIRPEDFKP

>sp|O15123|ANGP2\_HUMAN Angiopoietin-2 OS=Homo sapiens GN=ANGPT2 PE=1 SV=1

MWQIVFFTLSCDLVLAAYNNFRKSMDSIGKKQYQVQHGSCSYTFLLPEMDNCRSSSSPY  
VSNVQRDAPLEYDDSVQRLQVLENIMENNTQWLMKLENYIQDNMKKEMVEIQQNAVQNQ  
TAVMIEIGTNLLNQTAEQTRKLT DVEAQLNQTTRELEQLLEHSLSTNKLEKQILDQTSE  
INKLQDKNSFLEKKVLAMEDKHIIQLQSIKEEKDQLQVLVSKQNSIIEELEKKIVTATVN  
NSVLQKQQHDLMETVNNLLTMMSTSNSAKDPTVAKEEQISFRDCAEVFKSGHTTNGIYTL  
TFPNSTEEIKAYCDMEAGGGGWTIIQRREDGSVDFQRTWKEYKVGFGNPSGEYWLGNFV  
SQLTNQQRVYLKIHLDKWEAGNEAYSLYEHFYLSEELNYRIHLKGLTGTAGKISSISQPG  
NDFSTKDGDNDKCICKCSQMLTGGWWFDACGPSNLNGMYYPQRQNTNKFNGIKWYYWKGS  
GYSLKATTMMIRPADF

>sp|E9PGG2|ANHX\_HUMAN Anomalous homeobox protein OS=Homo sapiens GN=ANHX PE=2 SV=1

MQSFLTLLKEHEDTCAPPAELVTLAQRCLCRDFQDDLAQLQPLVTAILDSQLRLHLLDNAD  
VALACARVLDQQEQQAACRLLEGCVPGGSQELVQLWNDIHYRLVMRRLGVAALTPVQK  
FRCRKRNPPLSLCPEGLKSRNFPREVREKLHNFAGVNTNPSKAERENLALETSLTPEQ  
VYNWFANYRRRQALPQHMKPAQQATAEDPGARERGPDLLQPSGNPRVDSGFVDRPQWSE  
EREKGPQPSPQTTQGPWEPLALAPDFPADETVSKPLDVSHPQSVQLEEGLGTSSGRTE  
LRVGSFLVTQPPLQAPEFILTQSPPELAPAPSAFPGPVSAMELSQALPSSQVQCSDSQAS  
GDAFWGARMLLFEFGSSSLG

>sp|Q7Z5J8|ANKAR\_HUMAN Ankyrin and armadillo repeat-containing protein OS=Homo sapiens  
GN=ANKAR PE=2 SV=3

MLRLPKKGLPRFEQVQDEDTYLENLAIQRNASAFFEKYDRSEIQELLTALVSWLSAKED  
VRSQVDLPCGIMSQMNVGFSTAILLTPVDPTALLDYREVHQMIRELAIGIYCLNQIPSI  
SLEANYDQSSSCQLPPAYYDTRIGQILINIDYMLKALWHGIYMPKEKRARFSELWRAIMD  
IDPDGKPQTNKDIFSEFSSAGLTDITKDPDFNEIYDEDVNEDPTYDPNSPEETAVFMKYA  
ENIMLKLTFSTTIQQYENVFIFETGYWLTNAIKYNQDYLDICTYQRLQQRLYLQKKIIQ  
KHFEKKKDIRRGIGYKLICFLIPFLSLKMKVPYLSLLQPFSDDKVKTERELPPFI  
YGRDFKCNFHYKENQYFHVHGGIEFDISTPSIENALEDFQKNLEKIRDCAANTFIEDSG  
YKEYYSIPVMEFHGKSYVVIYFELETIFYQQLYKTQWWGAINIIVNNLRKRLPLTDAQLH  
EQFKKKLGFKRAMCKSIPFGMKSVERGLSAVFHTFSRKTSSSTINVSDEAGYTIFFHA  
ALHNRVSIICQLCNANFKVNQRRFVTFSGQPTPLHLAAQCSLETTVCLLCSKADYTLSE  
KRGWMPHFAAFYDNCIIIALCRKDPSSLAEATAENQCTPLLAATSGALDTIQYLF  
IGANWRKTDIKGNNIHLVLTFTHEVLKYIIKLNIPELPVWKTLEVMLQCESYKRRMMA  
VMSLEVICLANDQYWRCLDAGTIPALINLLKSSKIKLQCKTVGLLSNISTHKSVAHALV  
EAGGIPSLINLLVCDEPEVHSRCAVILYDIAQCENKDVIAKYNGIPSLINLLNLNIENVL  
VNMNCIRVLCIGNENNQRAVREHKGLPYLIRFLSSDSVLKAVSSAAIAEVGRDNKEIQ  
DAIAMEGAIPPLVALFKGKQISVQMKGAMAVESLASHNALIQKAFLEKSLTKYLLKLLKA  
FQIDVKEQGAVALWALAGQTLKQKQYMAEQIGYSFIINMLLSPSAKMQYVGGEAVIALSK  
DSRMHQNQICEGNGIAPLVRLLRISTIAEGTLLSVIRAVGSICIGVAHTSNPVSQQLVVD  
ENAFPLIQLLRNHPSPNIKVEVAFSLACIVLGNDVLQKDLHENEGFEYADVLYLLHSTE  
KDICLRAGYALTLFAFNRFQYLLILESGIMTISIFERFLESTVETEKAMAAFQIVVLAK  
VIRDMDHITLSARGVTILVDSLSYVQTSTIVLTGNLIASLAHSRAGIPEAFTTLGTIQR  
CYHLYSGIEEVRAACSSALGYLTYNANAFRILLKECRNKPQFIRIKNNISRDASINPAF  
LKEFQMQLTVGLPSLSLEKNGGPSIIPIFKRGKEHRRKLKPKIQPKDSLTLPPVTNFM  
GLFKATKTKDSDHNIFSSTITSITDITNVSRRPRIVCLNQLGKHVQKANPEPAEG



>sp|Q8N957|ANKF1\_HUMAN Ankyrin repeat and fibronectin type-III domain-containing protein 1 OS=Homo sapiens GN=ANKFN1 PE=2 SV=2

MEASLTRRLLFKDRHFTCSKIIIGRRFACFAQRLSHRRKQSQCDLLNESTGQLPTTCSSAA  
SNSINWNCRVKMTQQMQNLHLCQSKKHSAPSSPNAAKRLYRNLSEKLKGSHTSFDEAYFR  
TRTDRLSLRKTSVNFQGNEAMFEAVEQQDMDAVQILLYQYTPEELDLNTPNSEGLTPLDI  
AIMTNNVPIARILLRTGARESPHFVSLESRAMHLNTLVQEAQERVSELSAQVENEGFTLD  
NTEKEKQLKAWEWRYRLYRRMKTGFEHARAPEMPTNVCLMVTSSSTLTVSFQEPLSVNAA  
VVTRYKVEWSMEDFSPLAGEIIMDNLTQLRCTITGLTMGQQYFVQVSAYNMKGWGAQT  
TTPACASPSNWKDYDDREPRHKGQSEVLEGLLQQVRALHQHYSCESTKLQTTGRKQSVS  
RSLKHLFHSSNKFVKTLKRGYIAVIFYKDNILVTNEDQVPIVEIDDSHTSSITQDFLW  
FTKLSCMWEDIRWLRQSIPISSSSSTVLQTRQKMLAATAQLNLLGTHNLGRVYYEPIKD  
RHGNILIVTIREVELYSFFNGKWMQISKLSQRKSLSTPEPTALDILLITIQDILSYH  
KRSHQRLFPGLYLGYLKLCSVDQIKVLVTQKLPNILCHVKIRENNNISREEWIQLS  
GSEMESVDHTSDCPMQLFFYELQMAVKALLQQINIPLHQARNFRLYTQEVLEMGHNVSF  
LLLLPASDDVCTAPGQNNPYTPHSGFLNLPLQMFELGIVACFT

>sp|P55345|ANM2\_HUMAN Protein arginine N-methyltransferase 2 OS=Homo sapiens GN=PRMT2 PE=1 SV=1

MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILIL  
RQTTADWWWGERAGCCGYIPANHVKGKHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQP  
RTTKYHSVILQNKESLTDKVIDLVGCGTGIISLFAHYARPRAVYAVEASEMAQHTGQLV  
LQNGFADIITVYQQKVEDVVLPEKVDVLVSEWGTCLLFEFMIESILYARDAWLKEDGVI  
WPTMAALHLVPCSAKDYSKVLFWDNAYEFNLSALKSLAVKEFFSKPKYNHILKPEDCL  
SEPCTILQLDMRTVQISDLETLRGELRFDIRKAGTLHGFTAWFSVHFQSLQEGQPPQVLS  
TGPFHPTTHWKQTLFMMDDPVPVHTGDVVTGSVVLQRNPVWRRHMSVALSWAVTSRQDPT  
SQKVGEKVFIWR

>sp|O60678|ANM3\_HUMAN Protein arginine N-methyltransferase 3 OS=Homo sapiens GN=PRMT3 PE=1 SV=3

MCSLASGATGGRGAVENEEDLPELSDSGDEAAWEDEDDADLPHGKQQTCLFCNRLFTSA  
EETFSHCKSEHQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPVPWEKEEY  
LKPVLEDDLLLQFDVEDLYEPVSPFSYPNGLSENTSVVEKLKHMEARALSAEAALARAR  
EDLQKMKQFAQDFVMHTDVRTCSSTSVIADLQEDEDGVYFSSYGHYIHEEMLKDKIRT  
ESYRDFIYQNPHIFKDKVLDVGCGTGILSMFAAKAGAKVLGVDQSEILYQAMDIIRLN  
KLEDITILIKGKIEEVHLPVEKVDVISEWMGYFLLFESMLDSVLYAKNKYLAKGGSVYP  
DICTISLVAVSDVNKHADRIAFWDDVYGFKMSCMKAVIPEAVVEVLDPKTLISEPCGIK  
HIDCHTTSISDLEFSSDFTLKITRTSMCTAIAGYFDIYFEKNCHNRVVFSTGPQSTKTHW  
KQTVFLLKPFVSKAGEALKGKVTVHKSKKDPRSLTVTLTLNNSTQTYGLQ

>sp|Q6IWH7|ANO7\_HUMAN Anoctamin-7 OS=Homo sapiens GN=ANO7 PE=1 SV=2

MRMAATAWAGLQGPPLTLCPAVRTGLYCRDQAHAERWAMTSETSSGSHCARSRMLRRRA  
QEEDSTVLIDVSPPEAEKRGSYGSTAHASEPGGQQAACRAGSPAKPRIADFVLVWEEDL  
KLDRQQDSAARDRTDMHRTWRETFDLNLAAGLCVDQDQDQDNTTVHYALLSASWAVLC  
YYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCRFRVKNLPRF  
LGSDNQDTFTSTKRHQILFEILAKTPYGHEKNLLGIHQLLAEGVLSAAFPLHDGPFKT  
PPEGPQAPRLNQRQVLFQHWARWGKNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPA  
AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH

GGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNP I  
TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSNTLLAAW  
ASRIASLTGSVNVLFILILSKIYVSLAHVLTREWEMHRTQTKFEDAFTLKVFIFQFVNFY  
SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV  
LIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTI  
FVAACPLAPLFAALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN  
AFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTCryRAFRDDGHYS  
QTYWNLLAIRLAFVIVFEHVFSVGRLLDLLVPDIPESVEIKVKREYLAQKALAENEVL  
FGTNGTKDEQPEGSELSSHWPFTVPKASQLQQ

>sp|075179|ANR17\_HUMAN Ankyrin repeat domain-containing protein 17 OS=Homo sapiens  
GN=ANKRD17 PE=1 SV=3

MEKATVPVAAATAAEEGEGSPPAAVAVAGPPAAAEEVGGGVGGSSRARSASSPRGMVRVCDL  
LLKKKPPQQQHHKAKRNRTCRRPSSSESSSDNSGGGGGGGGGGGGGTSSNNSEEEE  
DDDDDEEEVSEVESFILDQDDLENPMLETASKLLLSGTADGADLRTVDPETQARLEALLE  
AAGIGKLSTADGKAFADPEVLRRLTSSVSCALDEAAAALTRMRAESTANAGQSDNRS LAE  
ACSEGDVNAVRKLLIEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDRGIKG  
DITPLMAAANGGHVIVKLLLAHKADVNAQSSTGTALTACAGGYVDVVKVLES GASI  
EDHNENGHTPLMEAGSAGHVEVARLLLENGAGINTHSNEFKESALTACYKGHLEMVRFL  
LEAGADQEHKTD EMTALMEACMDGHVEVARLLLD SGAQVNMPADSFESPLTLAACGGHV  
ELAALLIERGASLEEVDGYTPLMEAAREGHEEMVALLLGQGANINAQTEETQETATL  
ACCGGFLEVADFLIKAGADIELGCSTPLMEAAQEGHLELVKYLLAAGANVHATTATGDTA  
LTYACENGHTD VADVLLQAGADLEHESEGGRTPLMKAARAGHVCTVQFLISKGANVNRTT  
ANNDHTVLSLACAGHLAVVELLLAHGADPTHRLKDGSTMLIEAAKGHTSVVCYLLDYP  
NNLLSAPPPDVTQLTPPSHD LNRAPRVPVQALPMVPPQEPDKPPANVATTLPIRNKAAS  
KKKSSSHLPANSQDVQGYITNQSPESIVEEAQKQKLELEQKVERELQKLTQQQLKKQYLEVKAQRIQLQQ  
DQLTKEKIEELNKTREEQIQKKQKILEELQKVERELQKLTQQQLKKQYLEVKAQRIQLQQ  
QQQQSCQHLGLLTPVGVGEQLSEG DYARLQQVDPVLLKDEPQQTA AQMGFAPIQPLAMPQ  
ALPLAAGPLPPGSIANLTELQGVIVGQPV LGQAQLAGLGQGILTETQQGLMVASPAQTLN  
DTLDDIMAAVSGRASAMNTPTHSIAASISQPQTPTPSPIISPSAMLP IYPAIDIDAQTE  
SNHDTALTACAGGHEELVQTLLERGASIEHRDKKGFTPLILAATAGHVG VVEILLDNGA  
DIEAQSERTKDTPLSLACSGGRQEVVELLLARGANKEHRNVSDYTPLSLAASGGYVNI IK  
ILLNAGAEINSRTGSKLGISPLMLAAMNGHTAAVKLLLDMGSDINAQIETNRNTALTAC  
FQGRTEVVSLLLDRKANVEHRAKTGLTPLMEASGGYAEVGRVLLDKGADV NAPPVPSSR  
DTALTIAADKGHYKFCELLIGRGAHIDVRNKKGNTPLWLAANGHLDV VQLLVQAGADVD  
AADNRKITPLMAAFRKGHVKVVRVYL VKEVNQFSDSECMRYIATITDK EMLKKCHLCMES  
IVQAKDRQAAEANKNASILLEELDLEKLREESRRLALAAKREKRKEKRRKKKEEQRRKLE  
EIEAKNKENFELQAAQEKEKLKVEDEPEVLTEPPSATTTTTIGISATWTTLAGSHGKRNN  
TTTTSSKRKNRKNKITPENVIIFDDPLISYSQPEKVN GESKSSSTESGSDSNMRIS  
SCSDESSNSNSSRSDNHSPAVTTTVSSKKQPSVLVTFPKEERKSVSGKASIKLSETIS  
EGTSNSLSTCTKSGPSPLSSPNGKLTVASPKRGQKREEGWKEVVRRSKKVSV PSTVISRV  
IGRGGCNINAIREFTHAHIDIDKQDKTGDRIITIRGGTESTRQATQLINALIKDPDKEI  
DELI PKNRLKSSANSKIGSSAPTTTAANTS LMGIKMTTVALSSTSQTATALTVP AISSA  
STHKTIKNPVNNVRPGFPVSLPLAYPPPQFAHALLAAQTFQQIRPPRLPMTHFGGTFPPA  
QSTWGPFPPVRPLSPARATNSPKPHMVPRHSNQNSSGSQVNSAGSLTSSPTTTTSSSASTV

PGTSTNGSPSSPSVRRQLFVTVVKTSNATTTTVTTTASNNTAPT NATYPMPTAKEHYPV  
SSPSSPSPPAQPGGVS RNSPLDCGSASP NKVASSSEQEAGSPPVVETNTRPPNSSSSSG  
SSSAHSNQQQPPGVSQS EPRPPLQQSQVPPPEVRMTVPPLATSSAPVAVPSTAPVTYPMP  
QTPMGCQPPTPKMETPAIRPPPHGTTAPHKNSASVQNSSVAVLSVNH IKRPHSVPSVQL  
PSTLSTQSACQNSVHPANKPIAPNFSAPLPFGPFSTLFENSPTS AHAFWGGSVVSSQSTP  
ESMLSGKSSYL PNSDPLHQSDTSKAPGFRPPLQRPAPSPSGIVNMDSPYGSVTPSSSTHLG  
NFASNISGGQMYGPGAPLGGAPAAANFN RQHFSPLSLLTPCSSASNDSSAQSVSSGVRAP  
SPAPSSVPLGSEKPSNVSQDRKVPVPIGTERSARIRQTGTSAPSVIGSNLSTSVGHSGIW  
SFEGIGGNQDKVDWCNPGMGNPMIHRPMSDPGVFSQHQA MERDSTGIVTPSGTFHQHVPA  
GYMDFPKVGGMPFSVYGNAMIPPVAPIPDGAGGPIFNGPHAADPSWNSLIKMVSSSTENN  
GPQTVWTGPWAPHMNSVHMNQLG

>sp|Q9H560|ANR19\_HUMAN Putative ankyrin repeat domain-containing protein 19 OS=Homo sapiens GN=ANKRD19P PE=5 SV=1

MRKLFSFGRRLLGQALLDSMDQEYAGRGYHIRDWELRKIHRAAIKGDAAEVEHCLTRRFRD  
LDARDRKDRITVLHLTCAHGRVEVVTLLLSRR CQINIYDRLNRTPLMKAVHCQEEACAIIL  
LEHGANPNIKDIYSNTALHYAVYNKGTSLAEKLLSHHANIEALNEEGNTPLLFAINSRRQ  
QIVEFLLKNQANLHAIDNFRRTALMLAVQHNSSSIVSLLLQQNINIFSQDLFGQTAEDYA  
VCYNFRSIQQQILEHKNKILKSHL

>sp|Q96NW4|ANR27\_HUMAN Ankyrin repeat domain-containing protein 27 OS=Homo sapiens GN=ANKRD27 PE=1 SV=2

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VEEHFQTLNGKDVFIQGNRIKL GAGFACLLSVPILFEETFYNEKEESFSILCIAHPLEKR  
ESSEEP LAPSDFSLKTIEDVREFLGRHSERFDRNIASFHRTFRE CERKSLRHHIDSANA  
LYTKCLQQLLRD SHLKMLAKQEAQMNLMKQAVEIYVHHEIYNLIFKYVGTMEASEDAAFN  
KITRSLQDLQKDIGVKPEFSFNIPRAKRELAQLNKCTSPQQKL VCLRKVVQLITQSPSQ  
RVNLETMCADDLLSVLLYL LVKTEIPNWMANLSYIKNFRFSS LAKDELGYCLTSFEAAIE  
YIRQGSLSAKPPESEFGDRLFLKQRMSLLSQMTSSPTDCLFKHIASGNQKEVERLLSQE  
DHDKDTVQKMCHPLCF CDDCEKLVSGRLNDPSVVT PFSRDDRGHTPLHVAACGQASLID  
LLVSKGAMVNATDYHGATPLHLACQKGYQSVTLLLLHYKASAEVQDNNGNTPLHLACTYG  
HEDCVKALVYYDVESCRLDIGNEKGD TPLHIAARWGYQGVIETLLQNGASTEIQNRLKET  
PLKCALNSKILSVMEAYHLSFERRQKSSEAPVQSPQRSVDSISQESSTSSFSSMSASSRQ  
EETKKDYREVEKLLRAVADGDLEMVRYLLEWTEEDLEDAEDTVSAADPEFCHPLCQCPKC  
APAQKRLAKVPASGLGVNVT SQDGSSPLHVAALHGRADLIPLLLKHGANAGARNADQAVP  
LHLACQQGHFQVVKCLLDSNAKPNKKDLSGNTPLIYACSGGHHELVALLLQH GASINASN  
NKGNTALHEAVIEKHVFVVELLLLHGASVQVLNKRQRTAVDCAEQNSKIMELLQVVPSCV  
ASLDDVAETDRKEYVTVKIRKKWNSKLYDLPDEPFTRQFYFVHSAGQFKGKTSREIMARD  
RSVPNLTEGSLHEPGRQSVTLRQNNLPAQSGSHAAEKGNSDWPERPGLTQTGP GHRMLR  
RHTVEDAVVSQGPEAAGPLSTPQEVSASRS

>sp|Q7Z6G8|ANS1B\_HUMAN Ankyrin repeat and sterile alpha motif domain-containing protein 1B OS=Homo sapiens GN=ANKS1B PE=1 SV=2

MGKDQELLEAARTGNVALVEKLLSGRKGILGGSGPLPLSNLLSIWRGPNVNCTDSSGY  
TALHHAALNGHKDIVLKLQYEASTNVADNKGYP IHLAAWKGDVEIVKILIHG PSHSR  
VNEQNNENETALHCAAQYGHSEVVAVLLEELTDPTIRNSKLETPLDLAALYGR LRVVKMI  
ISAHPNLMSCNTRKHTPLHLAARNGHKAVVQVLEAGMDVSCQTEKGSALHEAALFGKVD

VVRVLETGIDANIKDSLGRVLDILKEHPSQKSLQIATLLQEYLEGVGRSTVLEEPVQE  
DATQETHISSPVESPSQKTKSETVTGELSKLLDEIKLCQEKDYSFEDLCHTISDHYLDNL  
SKISEEELGKNQSQSVRTSSTINLSPGEVEEEDDDENTCGPSGLWEALTPCNGCRNLGFP  
MLAQESYPKKRNYTMEIVPSASLDTFPSENENFLCDLMDTAVTKKPCSLEIARAPSPRTD  
NASEVAVTTPGTSNHRNSSTGTPDCSPSPDTALKNIVKVI RPPKQRTSIVSSLDFHR  
MNHNQEYFEINTSGCTSFTASPPASPPTSSVGTTEVKNEGTNHTDLSRQDDNDPPKEY  
DPGQFAGLLHGSSPACESPENPFHLYGKREKQCEKGQDEVSLANSPLPFKQSPIENNSEPL  
VKKIKPKVVSRTIFHKKSQLENHTIVGTRSTRSGSRNGDQWVMNAGGFVERACTLGRIR  
SLPKALIDMHLKSKSVKSDSDLIAYPSNEKTSRVNWSSESSTAESSKGNERTPSFTSEW  
EEIDKIMSSIDVGINNELKEMNGETTRPCPVQTVGQWLESIGLPQYENHLMANGFDNVQ  
FMGSNMEDQDLLEIGILNSGHRQRI LQAIQLLPKMRPIGHDGYHPTSVAEWLDSIELGD  
YTKAFLINGYTSMDLLKKIWEVELINVLKINLIGHRKRILASLGDRLHDDPPQKPPRSIT  
LREPSGNHTPPQLSPSLSQSTYTTGGSLDVPHIIMQGDARRRRRNENYFDDIPRSKLERQM  
AQTDGWGEPSITLRPPNEATASTPVQYWQHHPEKLIFQSCDYKAFYLGSMILKELRGTES  
TQDACAKMRANCQKSTEQMKKVPTIILSVSYKGVKFIDATNKNIIEAHEIRNISCAAQDP  
EDLSTFAYITKDLKSNHHYCHVFTAFDVNLAYEIIILTLGQAFEVAYQLALQARKGGHSST  
LPESFENKPSKPIPKPRVSIKRSVDLLHASHTGQEPSEHTEALRK

>sp|Q9H6X2|ANTR1\_HUMAN Anthrax toxin receptor 1 OS=Homo sapiens GN=ANTXR1 PE=1 SV=2

MATAERRALGIGFQWLSLATLVLICAGQGGREDGGPACYGGFDLYFILDKSGSVLHHWN  
EIYYFVEQLAHKFISPLRMSFIVFSTRGTTLMKLTEDREQIRQGLEELQKVLPGGDTYM  
HEGFERASEQIYYENRQGYRTASVIALTDGELHEDLFFYSEREANRSRDLGAIVYCVGV  
KDFNETQLARIADSKDHVFPVNDGFQALQGIHLSILKKSCIEILAAEPSTICAGESFQVV  
VRGNGFRHARNVDRVLCSEFKINDSVTLNEKPFSEVEDTYLLCPAPILKEVGMKAALQVSMN  
DGLSFISSSVITTTTHCSDGSILATALLILFLLALALLWWFWPLCCTVIIKEVPPPPAE  
ESEEEDDDGLPKKKWPTVDASYGGRGVGGIKRMEVRWGEKGSTEEGAKLEKAKNARVKM  
PEQEYEFPEPRNLNNMRRPSSPRKWYSPIKGLDALWVLLRKGYDRVSVMRPQPGDTGR  
CINFTRVKNNQPAKYPLNNAYHTSSPPAPIYTPPPAPHCPPPPPSAPTPIPSPPSTL  
PPPPQAPPPNRAPPPSRPPRPSV

>sp|A6NF34|ANTRL\_HUMAN Anthrax toxin receptor-like OS=Homo sapiens GN=ANTXRL PE=3 SV=3

MGSHESLGPYFLVFLLLLLPPPLFRAGSLRYHGPDWIRIFHRLALGSRRHHHHPGWQRQ  
HWRQGQAGHRCQGSFDLYFILDKSGSVNNWIDLYMWVEETVARFQSPNIRMCFITYSTD  
GQTVLPLTSDKNRIKGLDQLKIVPDGHTFMQAGFRKAIQQIESFNSGNKVPSMIIAMT  
DGELVAHAFQDTLREAAKARKLGANVYTLGVADYNLDQITAIADSPGHVFAVENGFKALR  
STIDALTSKVCLDVTSEPSSECEVGEPIYHVVIHGNGFQNLKKRDEVICRFIFNESTIIDE  
KPTSIDNNSMNCPGPKLEKPGEEYSIEVSLNKGKTFKSNVSTSTTCGIFRNWLYFVPL  
LLLVPLLLCCVWRLCRKQTVKEPPPVQKPEKEPEQEKPPPPPPPPPPPLPPPPAPV  
NTCPTVIIICCCGCGVGGMRRIEGLDFTCDLSHASCHQVPMCCQSRDQGRYLSLALAQ  
SQYAAQAPCCPRICFPHSQECLSLPQAPCSPRMCLRHSRECLALKQARCSNICALRHSQHS  
RECLARKQAPCSPRICLHSPEYFSQAQTLCPNPKSCLQPSRECLPLTCSSRCRLPPARCL  
RPPSRMLPLLSPLL RHTAEPPLSLPPSEPNF

>sp|P20073|ANXA7\_HUMAN Annexin A7 OS=Homo sapiens GN=ANXA7 PE=1 SV=3

MSYPGYPPTGYPPFGYPPAGQESSFPSPGQYPYPSGFPMPGGGAYPQVPSSGYPGAGGY  
PAPGGYPAPGGYPGAPQPGGAPSYPGVPPGQGFVPPGGAGFSGYPQPPSQSYGGGPAQV  
PLPGGFPGGQMPQYPGGQPTYPQINTDSFSSYPVFSVSLDYSSEPATVTQVTQGTIR

PAANFDAIRDAEILRKAMKGFGTDEQAIVDVVANRSNDQRQKIKAAFKTSYGKDLIKDLK  
SELSGNMEELILALFMPPTYDDAWSLRKAMQGAGTQERVLIEILCTRNTQEIREEIVRCYQ  
SEFGRDLEKDIRSDTSGHFERLLVSMCQGNRDENQSINHQMAQEDAQRLYQAGEGRLGTD  
ESCFNMILATRSFPQLRATMEAYSRMANRDLLSSVSREFSGYVESGLKTLQCALNRPAF  
FAERLYYAMKGAGTDDSTLVRIVVTRSEIDLVIKQMFQMYQKTLGTMIAGDTSGDYRR  
LLLAIVGQ

>sp|P28039|AOAH\_HUMAN Acyloxyacyl hydrolase OS=Homo sapiens GN=AOAH PE=1 SV=1

MQSPWKILTVAPLFLLLSLQSSASPANDDQSRPSLSNGHTCVGCVLVVSVIEQLAQVHNS  
TVQASMERLCSYLPEKFLKTTCYLVIDKFGSDIIKLLSADMNADVCHTLEFCKQNTGQ  
PLCHLYPLPKETWKFTLQKARQIVKKSPILKYRSRSGSDICSLPVLAKICQKIKLAMEQSV  
PFKDVDSKYSVFPTLRGYHWRGRDCNDSDESVYPGRRPNNWDVHQDSNCNGIWGVDPKD  
GVPEYKKFCEGSQPRGIILLGDSAGAHFHISPEWITASQMSLNSFINLPTALTNELDWPQ  
LSGATGFLDSTVGIKEKSIYLRWLKRNHCNHRDYQNISRNGASSRNLKKFIESLSRNKVL  
DYPAlVIYAMIGNDVCSGKSDPVPAMTTPEKLYSNVMQTLKHLNSHLPNGSHVILYGLPD  
GTFLWDLNHNRYHPLGQLNKDMTYAQLYSFLNCLQVSPCHGWMSSNKTLRTLTSERAEQL  
SNTLKKIAASEKFTNFNLFYMDFAFHEIIQEWQKRGQPWQLIEPVDGFHPNEVALLLLA  
DHFWKVQLQWPQILGKENPFNPQIKQVFGDQGGH

>sp|O60641|AP180\_HUMAN Clathrin coat assembly protein AP180 OS=Homo sapiens GN=SNAP91  
PE=1 SV=2

MSGQTLTDRIAAQYSVTGSAVARAVCKATTHEVMGPKKKHLDYLIQATNETNVNIPQMA  
DTLFERATNSSWVVFALVTTHLMVHGNERFIQYLASRNTLFNLSNFLDKSGSHGYDM  
STFIRRYRYLNEKAFSYRQMAFDFARVKKGADGVMRTMAPEKLLKSMPILQGQIDALLE  
FDVHPNELTNGVINAAFMLLFKDLIKLFACYNDGVINLLEKFFEMKKGQCKDALEIYKRF  
LTRMTRVSEFLKVAEQVGIDKGDIPLDTQAPSSLMETLEQHLNTLEGKKPGNNEGSGAPS  
PLSKSSPATTVTSPNSTPAKTIDTSPVDFATASAAVPVSTSKPSSDLLDLQPDFSSGG  
AAAAAAPAPPPAGGATAWGDLGDSLAALSSVPSEAQISDPFAPEPTPPTTTAEIATA  
SASASTTTTAVTAEVDFLGDAFAASPGEAPAASEGAAAPATPTPVAAALDACSGNDPF  
APSEGSAEAAPELDLFAMKPPETSPVVTPTASTAPPVPATAPSPAPAVAAAAAATTAAT  
AAATTTTTTSAATATTAPPALDIFGDLFESTPEVAAAPKPDAAPSIDLFSTDAFSSPPQG  
ASVPPESSLTADLLSVDFAAASPATTASPAKVDSSGVIDLFGDAFGSSASEPQPASQAA  
SSSSASADLLAGFGGSFMAPSPSPVTPAQNNLLQPNFEAAFGTTPSTSSSSSFDPSPVFDG  
LGDLLMPTMAPAGQPAPVMVPPSPAMAASKALGSDLSSLASLVGNLGISGTTTTKKGDL  
QWNAGEKKLTGGANWQPKVAPATWSAGVPPSAPLQGAVPPTSSVPPVAGAPSVGQPGAGF  
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LNIKDFL

>sp|Q63HQ0|AP1AR\_HUMAN AP-1 complex-associated regulatory protein OS=Homo sapiens  
GN=AP1AR PE=1 SV=1

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HRPLTEEEIVDLRERHYDSIAEKQKDLDKKIQKELALQEEKLRLEEEALYAAQREAAARAA  
KQRKLEQERQRIVQYHPSNNGEYQSSGPEDDFESCLRNMSQYEVFRSSRLSSDATVL  
TPNTESSCDLMTKTKSTSGNDDSTSLDLEWEDEEGMNRMLPMRERSKTEEDILRAALKYS  
NKKTGSNPTSASDDSNGLEWENDFVSAEMDDNGNSEYSGFVNPVLELSDSGIRHSDTDQQ  
TR

>sp|O43747|AP1G1\_HUMAN AP-1 complex subunit gamma-1 OS=Homo sapiens GN=AP1G1 PE=1 SV=5

MPAPIRLRELIRTIRTARTQAEEREMIQKECAAIRSSFREEDNTYRCRNVAKLLYMHMLG  
YPAHFGQLECLKLIASQKFTDKRIGYLGAMLLLDERQDVHLLMTNCIKNDLNHSTQFVQG  
LALCTLGCMGSSEMCRLDAGEVEKLLKTSNSYLRKKAALCAVHVIRKVPPELMMFLPATK  
NLLNEKNHGVLTSSVLLTEMCERSPDMLAHFRKLVLPQLVRILKNLIMSGYSPEHDVSGI  
SDPFLQVRILRLLRILGRNDDSSSEAMNDILAQVATNTETSKNVGNAILYETVLTIMDIK  
SESGRLVLAINILGRFLLNNDKNIRYVALTSLLKTVQTDHNAVQRHRSTIVDCLKDLVDVS  
IKRRAMELSFALVNGNIRGMMKELLYFLDSCEPEFKADCASGIFLAAEKYAPSKRWHID  
TIMRVLT TAGSYVRDDAVPNLIQLITNSVEMHAYTVQRLYKAILGDYSQQPLVQVAAWCI  
GEYGDLLVSGQCEEEEP IQVTEDEVLDILESVLISNMSTSVTRGYALTAIMKLSTRFTCT  
VNRIKKVVSIGSSIDVELQQRAVEYNALFKKYDHMSALLERMPVMEKVTTNGPTEIVQ  
TNGETEPAPLETKPPSPGPQPTSQANDLLDLLGGNDITPVIPTAPTSKPSSAGGELLDLL  
GDINLTGAPAAAPASVPQISQPPFLDGLSSQPLFNDAAGIPSITAYSKNGLKIEFT  
FERSNTNPSVTVITI QASNSTELDMTDFVFQAAVPKTFQLQLLSPSSSIVPAFNTGTITQ  
VIKVLNPQKQLRMRIKLTYNHKGSAQDLAEVNNFPPQSWQ

>sp|Q7Z6R9|AP2D\_HUMAN Transcription factor AP-2-delta OS=Homo sapiens GN=TFAP2D PE=2 SV=1

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STNHQYTPLHHQSFHYEFQHSHPAVTPDAYSLNSLHHSQQYYQIHHGEPTDFINLHNAR  
ALKSSCLDEQRRELGCDDAYRRHDL SLSHGSQYGMHPDQRLPGPSLGLAAAGADDLQG  
SVEAQCGLVNLNGGGVIRRGTCVVNPTDLFCSVPGRLSLLSSTSKYKVTIAEVKRRSP  
PECLNASLLGGILRRASKNGRCLREKLDRLGLNLPAGRRKAANVTLLTSLVEGEALHL  
ARDFGYTCETEPKAVGEHLARQHMEQKEQTARKKMILATKQICKEFQDLSQDRSPLG  
SSRPTPILDLDIQRHLTHFSLITHGFGTPAICAALSTFQTVLSEMLNLEKHTTHKNGGA  
ADSGQGHANSEKAPLRKTSEAAVKEGKTEKTD

>sp|Q9Y6B7|AP4B1\_HUMAN AP-4 complex subunit beta-1 OS=Homo sapiens GN=AP4B1 PE=1 SV=2

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DIVQKKLVLYMCTYAPLPDALLAINTLCKDCSDPNPMVRGLALRSMCSLRMPGVQEY  
IQQPILNGLRDKASYVRRVAVLGCAKMHNLHGDSEVDGALVNELYSLLRDQDP IVVVNCL  
RSLEEILKQEGGVINKPIAHLLNRMSKLDQWGQAEVLNFLRLRYQPRSEEELFDILNLL  
DSFLKSSSPGVVMGATKFLILAKMFPHVQTDVLVRVKGPLLAACSSSRELCFVALCHV  
RQILHSLPGHFSSHYKKFFCSYSEPHYIKLQKVEVLCELVDENVQQVLEELRGYCTDVS  
ADFAQAAIFAIGGIARTYTDQCVQILTELLGLRQEHIITVVVQTFRDLVWLCPCQTEAVC  
QALPGCEENIQDSEKQALIWLLGVHGERIPNAPYVLEDFVENVKSETFPAVKMELLTAL  
LRLFLSRPAECQDMLGRLLYYCIEEEKDMAVRDRGLFYRLLLVGIDEVKRILCSPKSDP  
TLGLEDPAERPVSWSDFNTLVPVYGKAHWATISKCCQAERCPELPKTSFSAASGPL  
IPEENKERVQELPDSGALMLVPNRQLTADYFEKTWLSLKVAHQVLPWRGEFHPDTLQMA  
LQVVNIQTIAMSRAGSRPWKAYLSAQDDTGCLFTELLLEPGNSEMQISVKQNEARTETL  
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>sp|Q8N6S5|AR6P6\_HUMAN ADP-ribosylation factor-like protein 6-interacting protein 6  
OS=Homo sapiens GN=ARL6IP6 PE=1 SV=1

MSFAESGWSALRRRGPGTPGPVARSYSSFTQGDWGEGEVDEEGCDQVARDLRAEFS  
AGAWSEPRKRSVLPPDGNGSPVLPDKRNGIFPAAAGSRAQPRRWPVQVLSILCSLLFAIL  
LAFLLAIAYLIVKELHAENLKNEDDVTGLLGFWTLLIISLTAGFSCCSFSWTVTYFDSF  
EPGMFPPTPLSPARFKKLTGHSFHMGYSMAILNGIVAALTVAWCLM

>sp|P84077|ARF1\_HUMAN ADP-ribosylation factor 1 OS=Homo sapiens GN=ARF1 PE=1 SV=2

MGNIFANLFKGLFGKKEMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKN  
ISFTVWDVGGQDKIRPLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDEL RDAV  
LLVFANKQDLPNAMAAEITDKLGLHSLRHRNWIYIQTATCATSGDGLYEGLDWLSNQLRNQ  
K

>sp|Q8N6T3|ARFG1\_HUMAN ADP-ribosylation factor GTPase-activating protein 1 OS=Homo sapiens GN=ARFGAP1 PE=1 SV=2

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVR  
SVTMDKWKDIELEKMKAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAE  
GREWSLESSPAQNWTTPQPRTLPSMVHRVSGQPQSVTASSDKAFEDWLNDLGSYQGAQG  
NRYVGFGNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAAKEGATKFGSQASQKA  
SELGHSNLNENVLKPAQEKVKEGKIFDDVSSGVSQ LASKVQGVGSKGWRDVTTFSGKAEG  
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRS  
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>sp|P53365|ARFP2\_HUMAN Arfaptin-2 OS=Homo sapiens GN=ARFIP2 PE=1 SV=1

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GLIPTGSGRHP SHSTTPSGPGDEVARGIAGEKFDIVKKWGINTYKCTKQLLSERFGRGSR  
TVDLELELQIELLRETRKRYESVLQLGRALTAHLYSLLQTQHALGDAFADLSQKSPELQE  
EFGYNAETQKLLCKNGETLLGAVNFFVSSINTLVTKTMEDTLMTVKQYEAARLEYDAYRT  
DLEELSLGPRDAGTRGRLESAQATFQAHRDKYEKLRGDVAIKLK FLEENKIKVMHKQLLL  
FHNAVSAYFAGNQKQLEQTLQQFNIKLRPPGAEKPSWLEEQ

>sp|Q8NDY3|ARHL1\_HUMAN [Protein ADP-ribosylarginine] hydrolase-like protein 1 OS=Homo sapiens GN=ADPRHL1 PE=2 SV=1

MEKFKAAMLLGSGVDALGYRNVCKENSTVGMKIQEELQRSGGLDHLVLSPGEWPVSDNTI  
MHIATAEALTTDYWCLDDLYREMVR CYVEIVEKLPERRPD PATIEGCAQLKPNNYLLAWH  
TPFNEKSGSGFAATKAMCIGLRYWKPERLETIEVSVECGRMTHNHPTGFLGSLCTALFV  
SFAAQGKPLVQWGRDMLRAVPLAE EYCRKTIRHTAEYQEHWFYFEAKWQFYLEERKISKD  
SENKAIFPDNYDAEEREKTYRKSSEGRGRRGHDAPMIA YDALLAAGNSWTELCHRAMF  
HGGESAATGTIAGCLFGLLYGLDLVPKGLYQDLEDKEKLEDLGAALYRLSTEEK

>sp|O14497|ARI1A\_HUMAN AT-rich interactive domain-containing protein 1A OS=Homo sapiens GN=ARID1A PE=1 SV=3

MAAQVAPAAASSLGNPPPPPPSELKKAEEQQQREEAGGEAAAAAAAAAERGEMKAAAGQESEG  
PAVGPPQPLGKELQDGAESNGGGGGGAGSGGGGPAEPDLKNSNGNAGPRPALNNNLTEP  
PGGGGGSSDGVGAPPHSAAAAALPPPAYFGQPYGRSPSAVAAAAA AVFHQQHGGQQSPG  
LAALQSGGGGGLEPYAGPQQNSHDHGFNP HQYNSYYPNRSAYPPAPAYALSSPRGGTPG  
SGAAAAAGSKPPSSSASASSSSSSFAQQRFGAMGGG GPSAAGGTPQPTATPTLNQLLT  
SPSSARGYQGYPGGDYSGGPQDGGAGKGPADMASQCWAAAAAAAAAASGGAQQRSHHA  
PMSGSSGGGGQPLARTPQPSSPMDQMGMRPQPYGGTNPYSQQQGPSPGQQGHGYPGQ  
PYGSQTPQRYPM TMQGRAQSAMGGLSYTQQIPPYGQQGPSGYGQQGQTPYYNQSPHPQQ  
QQPPYSQQPPSQTPHAQPSYQQQPQSQPPQLQSSQPPYSQQPSQPPHQQSPAPYPSQQST  
TQQHPQSQPPYSQPQAQSPYQQQPQQPAPSTLSQQAAYPQPQSQQSQTAYSQQRFPFP  
QELSQDSFGSQASSAPSM TSSKGGQEDMNL SLQSRPSSLPDLSGSIDDLPMGTEGALSPG  
VSTSGISSSQGEQNSPAQSPFSPHTSPHLPGIRGSPSPVGPSPASVAQSRSGPLSPAAMP  
GNQMPPRPPSGQSDS IMHPSMNQSSIAQDRGYMQRNPQMPQYSSPQPGSALSPRQPSGGQ  
IHTGMGSYQQNSMGSYGPQGGQYGPQGGYPRQPNYNALPNANYPSAGMAGGINPMGAGGQ

MHGQPGIPPYGTLPPGRMSHSMGNRPYGPNNMANMPPQVSGMCPPPGGMNRKTQETAVA  
MHVAANSIQNRPPGYPNMNQGGMMGTGPPYGGGINSMAGMINPQGGPYSMGGTMANNASAG  
MAASPEMMGLGDVCLTPATKMNNKADGTPKTESKSKSSSSTTTNEKITKLYELGGEPPER  
KMWVDRYLAFTEEKAMGMTNLPAVGRKPLDLYRLYVSVKEIGGLTQVKNKKNWRELATNL  
NVGTSSSAASSLKKQYIQCLYAFECKIERGEDPPPDIFAAADSKKSQPKIQPPSPAGSGS  
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KRNSMTPNPGYQPSMNTSDMMGRMSYEPNKDPYGSMRKAPGSDPFMSSGQGPNGGMGDY  
SRAAGPGLGNVAMGPRQHYPPYGGPYDRVRTEPGIGPEGNMSTGAPQPNLMPSNPDSGMYS  
PSRYPPQQQQQQQRHDSYGNQFSTQGTSPGSPFPSSQQTMYQQQQQNYKRPMDGTYGPP  
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VPPMTRPPPSNYQPPPSMQNHIPQVSSPAPLPRPMENRTSPSKSPFLHSGMKMQKAGPPV  
PASHIAPAPVQPPMIRRDITFPPGSVEATQPVLKQRRRLTMKDITPEAWRVMSLSKSL  
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QRTLDPGRFSKVSSPAPMEGEEEEELLGPKLEEEEEEEVVENDEEIAFSGKDKPASEN  
SEEKLISKFDKLPVKIVQKNDPFVVDSDKLGRVQEFDSGLLHWIRIGGDTTEHIQTHFE  
SKTELLPSRPHAPCPPAPRKHVTTAEGTPGTTDQEGPPPDGPPEKRITATMDMLSTRSS  
TLTEDGAKSSEAIKESSKFPFGISPAQSHRNKILEDEPHSKDETPLCTLLDWQDSLAKR  
CVCVSNTRISLSFVPGNDFEMSKHPGLLLILGKLILLHHKHPERKQAPLTYEKEEQDQG  
VSCNKVEWWDCLEMLRENTLVTLANISGQLDLSPYPESICLPVLDGLLHWAVCPSEAAQ  
DPFSTLGPNAVLSQRLVLETLSKLSIQDNNVDLILATPPFSRLEKLYSTMVRFLSDRKN  
PVCREMAVLLANLAQGDSLAARAIAVQKGSIGNLLGFLEDSLAATQFQQSQASLLHMQN  
PPFEPTSVDMMRRAARALLALAKVDENHSEFTLYESRLDISVSPLMNSLVSQVICDVL  
LIGQS

>sp|Q9Y4X5|ARI1\_HUMAN E3 ubiquitin-protein ligase ARIH1 OS=Homo sapiens GN=ARIH1 PE=1  
SV=2

MDSDEGYNYEFDDEECSEEDSGAEEDDEDDDEPDDDTLDLGEVELVEPGLGVGGERDG  
LLCGETGGGGGSALPGGGGGGGGGGGGGPGHEQEEDYRYEVLTAEQILQHMEVCIREV  
NEVIQNPATITRILLSHFNWDKEKLMERYFDGNLEKLFAECHVINPSKKSRTQMNRSS  
AQDMPQCICYLNYPNSYFTGLECGHKFCMQCWSEYLTTKIMEEGMQTISCPAHGCDILV  
DDNTVMRLITDSKVKLKYQHLITNSFVECNRLKWCAPDCHHVVKVQYPDAKPVRCCKG  
RQFCFNCGENWHDPVKCKWLKKWIKKDDDDSETSNWIAANTKECPKCHVTIEKDGGCNHM  
VCRNQCKAEFCWVCLGPWEPHGSAWYNCNRYNEDDAKAARDAQERSRAALQRYLYFCNR  
YMNHMQSLRFEHKLKYAQVKQKMEEMQQHNMSWIEVQFLKKAQDVLCQCRATLMYTYVFAF  
YLKKNQSIIFENNQADLENATEVLSGYLERDISQDSLQDIKQKVQDKYRYCESRRRVLL  
QHVHEGYEKDLWEYIED

>sp|Q14865|ARI5B\_HUMAN AT-rich interactive domain-containing protein 5B OS=Homo sapiens  
GN=ARID5B PE=1 SV=3

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RCGFHAGPVKTEALGRNGQKEALLKYRQSTLNSGLNFKDVLKEKADLGEDEEETNIVLS  
YPQYCRYRSMLEKRIQDKPSSILTDQFALALGGIAVVSARNPQILYCRDTFDHPTLIENESI  
CDEFAPNLKGRPRKKKPCPQRDSFSGVKDSNNNSDGKAVAKVKCEARSALTKPKNNHNC



KKVSNEEKPKVAIGEEGRADEQAFVLVALYKMKERKTPIERIPYLGFKQINLWTFQAAQ  
KLGGYETITARRQWKHIYDELGGNPGSTSAATCTRRHYERLILPYERFIKGEEDKPLPPI  
KPRKQENSSQENENKTKVSGTKRIKHEIPKSKKEKENAPKPDAAEVSSEQEKEQETLIS  
QKSIPEPLPAADMKKKIEGYQEFSAKPLASRVDPEKDNETDQGSNSEKVAEEAGEKGPTP  
PLPSAPLAPEKDSALVPGASKQPLTSPSALVDSKQESKLCCFTESPESEPEQASFPSFPT  
TQPPLANQNETEDDKLPAMADYIANCTVKVDQLGSDDIHNAKQTPKVLVVQSFD MFKD  
DLTGPMNENHGLNYTPLLYSRGNPGIMSPLAKKKLLSQVSGASLSSSYPGSPPLISKK  
KLIARDDLCSLSQTHHGQSTDHMAVSRPSVIQHVQSFRSKPSEERKTINDIFKHEKLSR  
SDPHRCFSKHHNLPLADSIVLKQEIQEGKDKLLEKRALPHSHMPSFLADFYSSPHLHSL  
YRTEHHLHNEQTSKYPSRDMYRESENSSFP SHRHQEKLVNYLTSLHLQDKKSAAAEAP  
TDDQPTDLSLPKNPHKPTGKVLGLAHSTTGPKESKGISQFQVLGSQSRDCHPKACRVSPM  
TMSGPKKYPESLSRSGKPHHVRLNFRKMEGMVHPI LHRKMSPQNIGAARPIKRSLEDLD  
LVIAGKKARAVSPLDPSKEVSGKEKASEQESEGSKAAHGGHSGGGSEGHKLPLSSPIFG  
LYSGSLCNSGLNSRLPAGYSHSLQYLKNQTVLSPLMQPLAFHSLVMQRGIFTSP TNSQQL  
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>sp|Q9Y4B4|ARIP4\_HUMAN Helicase ARIP4 OS=Homo sapiens GN=RAD54L2 PE=1 SV=4

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QLEPVTKAAQQEELERRKRLEQQRKDYAAP IPTVPLEFLPEEIALRASDGPQLPPRVLAQ  
EVICLDSSSGSEDEKSSRDEVIELSSGEEDTLHIVDSSESVEDEDEEEKGGTHVNDVLN  
QRDALGRVLVNLNHPPEEENVFLAPQLARAVKPHQIGGIRFLYDNLVESLERFKTSSGFG  
CILAHSMLGKTLQVISFIDVLF RHTPAKTVLAIVPVNTLQNWLAEFNMWLPPEALPAD  
NKPEEVQPRFFKVHILNDEHKTMASRAKVMADWVSEGGVLLMGYEMYRLLTLKKS FATGR  
PKKTKKRSHPVIIDLDEEDRQQEFRRFEKALCRPGPDVVICDEGHR IKNCQASTSQALK  
NIRSRRRVLTGYPLQNNLIEYWCMDVDFVRPDLGTRQEF SNMFERPILNGQCIDSTPQD  
VRLMRYRSHVLHSLLEGFVQRRGHTVLKIHLPAKEENVILVRLSKIQRDLYTQFMDRFRD  
CGSSGWLGLNPLKAFCVCKIWNHPDVL YEALQKESLANEQDL DVEELGSAGTSARCPPQ  
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SYFRLDGSTPAFERERLINQFNDSNLTTWLFLLSTRAGCLGVNLIGANRVVVF DASWNP  
CHDAQAVCRVYRYGQKPCYIYRLVADYTLEKKIYDRQISKQGMSDRVDDLPMLNFTR  
KEVENLLHFVEKEPAPQVSLNVKGIKESVLQLACLKYPHLITKEPFEHESLLLNRKDHKL  
TKAEKKA AKKSYEEDKRTSVPYTRPSYAQYYPASDQSLTSIPAFSQRNWQPTLKGDEKPV  
ASVRPVQSTPIPMMPRHVPLGGSVSSASSTNPSMNF PINYLQRAGVLVQKVVT TTDIVIP  
GLNSSTDVQARINAGESIHIIRGTKGTYIRTS DGRIFAVRATGKPKVPEDGRMAASGSQG  
PSESTSNGRHSASSPKAPDPEGLARPVSPDSPEI ISELQQYADVAAARESRQSSPSTNA  
ALPGPPAQLMDSSAVPGTALGTEPRLGGHCLNSSLVTGQPCGDRHPVLDLRGHKRKLAT  
PPAAQESSRRRSRKGHLPAPVQPYEHGYPVSGGFAMPPVSLNHNLTTPFTSQAGENS LFM  
GSTPSYYQLSNLLADARLVFPVTTDPLVPAGPVSSSTATSVTASNPSFMLNPSVPGILP  
SYSLPFSQPLLSEPRMFAPFSPVLP SNLSRGM SIYPGYMSPHAGYPAGLLRSQVPPFD  
SHEVAEVGFSSNDDKDDDIVIEVTGK

>sp|043488|ARK72\_HUMAN Aflatoxin B1 aldehyde reductase member 2 OS=Homo sapiens GN=AKR7A2  
PE=1 SV=3

MLSAASRVVSRAAVHCALRSPPEARALAMSRPPPPRVASVLGTMEMGRMDAPASAAAV

RAFLERGHTELDTAFMYSDGQSETILGGLGLGLGGDCRVKIATKANPWDGKSLKPDsvr  
SQLETSKRLQCPQVDLFYLHAPDHGTPVEETLHACQRLHQEGKFVELGLSNYASWEVAE  
ICTLCKSNGWILPTVYQGMYNATTRQVETELFPCLRHFGRLFYAYNPLAGGLTGKYYE  
DKDGKQPVGRFFGNSWAETYRNRFWKEHHFEATIALVEKALQAAYGASAPSVTSAALRWY  
HHSQLQGAHGDAVILGMSLEQLEQNLAATEEGPLEPAVVDAFNQAWHLVAHECPNYFR

>sp|Q96BM9|ARL8A\_HUMAN ADP-ribosylation factor-like protein 8A OS=Homo sapiens GN=ARL8A  
PE=1 SV=1

MIALFNKLLDWFKALFWKEEMELTLVGLQYSGKTTFVNVIASGQFNEDMIPTVGFMNRKI  
TKGNVTIKLWDIGGQPRFRSMWERYCRGVSIVYMVDAADQEKIEASKNELHNLLDKPQL  
QGIPVLVLGNKRDLPALDEKELIEKMNLSAIQDREICCYSISCHEKDNIDITLQWLIQH  
SKSRRS

>sp|Q8N1P7|AIM1L\_HUMAN Absent in melanoma 1-like protein OS=Homo sapiens GN=AIM1L PE=2  
SV=1

MELRTPGKTKWSPQGIGSLRRVWDYSTPEISLFSSEGLKGEQVKLTEALKNSQGLEKPLQ  
VASATVSAGLWLLYPKPLFEDTPYILEPGEYPTSEAWGTSDPSVGLKPMRLGCPSVEKP  
GEPRAVVYEAPGFQGRSWEVSRDIYNLQQPEDSQSPHLASVGLSLRVLGGCWVGYEKEGFR  
GHQYLLEEGEYPDWSHWGGYDELLTSLRVIRTDGDPVAVLFEAMDFEGHGVESKALPD  
VELVQHGPSTQAIHVLSGVWVAYQEVGFSGEQYVLEKGVYRNCEDWGAGNSTLASLQPVL  
QVGEHDLHFVSKIQLFSRPDLGDHFSFEDDQAALPASFRPQSCRVHGGSWILFDETNE  
GDQHILSEGEFPTLTAMGCLASTVLGSLQKVSLEHSEPSIFLYGLECFEGKEIELSREVR  
SLQAEFGNNHVLVSRVKGKIWLCEHSDFRGRQWLVGSCETNWLTYSGTQRVGSLYPIK  
QRRVYFRLWNAALGGFLAVPDHVEDMKAGRVVADPQAGGSCIWYYEDGLLKNQMAPTMS  
LQVIGPPSPGSKVVLWAESRLPRQTWSISESGHICSMFEGQILDVKGGRGYDRDHVVLW  
EPDEDASQIWTIHVL

>sp|Q12904|AIMP1\_HUMAN Aminoacyl tRNA synthase complex-interacting multifunctional  
protein 1 OS=Homo sapiens GN=AIMP1 PE=1 SV=2

MANNDVLRLEKQGAADQIIIEYLKQVSLLEKAILQATLREEKKLRVENAKLKEIE  
ELKQELIQAEIQNGVKQIPFPGTPLHANSMVSENVIQSTAVTTVSSGTKEQIKGGTGDE  
KKAKEKIEKKGEKKEKKQSIAGSADSKPIDVSRLDLRIGCIITARKHPDADSLYVEEVD  
VGEIAPRTVVSGLVNHPLEQMQRNVILLCNLKPAMRGVLSQAMVMCASSPEKIEILA  
PPNGSVPGDRITFDAPGEPDKELNPKKKIWEQIQPDLHTNDECVATYKGVPFVKGKGV  
CRAQTMSNSGIK

>sp|Q04828|AK1C1\_HUMAN Aldo-keto reductase family 1 member C1 OS=Homo sapiens GN=AKR1C1  
PE=1 SV=1

MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPSKSKALEATKLAIEAGFRHIDSAHLYNNEEQ  
VGLAIRSKIADGSVKREDIFYTSKLWCNSHRPELVRPALERSLKNLQLDYVDLYLIHFPV  
SVKPGEEVIPKDENGKILFDTVDLCATWEAVEKCKDAGLAKSIGVSNFNRRLQEMILNKP  
GLKYKPCVNQVECHPYFNQRKLLDFCKSKDIVLVAYSALGSHREEPWVDPNSPVLLEDPV  
LCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN  
RNVRYLTLDIFAGPPNYPFSDEY

>sp|P52895|AK1C2\_HUMAN Aldo-keto reductase family 1 member C2 OS=Homo sapiens GN=AKR1C2  
PE=1 SV=3

MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPSKSKALEAVKLAIEAGFHHIDSAHVYNNEEQ  
VGLAIRSKIADGSVKREDIFYTSKLWNSHRPELVRPALERSLKNLQLDYVDLYLIHFPV

SVKPGEEVIPKDENGKILFDTVDLCATWEAMEKCKDAGLAKSIGVSNFNHRLLEMILNKP  
GLKYKPCVNQVECHPYFNQRKLLDFCKSKDIVLVAYSALGSHREEPWVDPNSPVLLEDPV  
LCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN  
RNVRYLTLDIFAGPPNYPFSDEY

>sp|POCW23|AKAI1\_HUMAN A-kinase anchor protein inhibitor 1 OS=Homo sapiens GN=AKAIN1 PE=1  
SV=1

MVFAPGEKPGNEPEEVKLQNASKQIVQNAILQAVQQVSQESQRREERISDNRDHIQLGVG  
ELTKKHEKK

>sp|Q99996|AKAP9\_HUMAN A-kinase anchor protein 9 OS=Homo sapiens GN=AKAP9 PE=1 SV=3

MEDEERQKKLEAGKAKIEELSLAFLVRQLAQFRQRKAQSDGQSPSKQKKKRKTSSSKHD  
VSAHDLNIDQSQCNEMYINSSQRVSTVIPESTIMRTLHSGEITSHEQGSVELESEIS  
TTADDCSSEVNGCSFVMRTGKPTNLLREEFGVDDSYSEQAQSPTHLEMMESLAGKQ  
HEIEELNRELEEMRVTYGTEGLQQLQEFEAIAIKQRDGIITQLTANLQARREKDETMREF  
LELTEQSQKLQIQFQQLQASETLRNSTHSSTAADLLQAKQQLTHQQQLLEEQLHLLDYQ  
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HKDSQFETDIVRMEQETQRKLEQLRAELDEMYGQIVQMKQELIRQHMAQMEEMKTRHK  
GEMENALRSYSNITVNEDQIKLMNVAINELNIKLQDTNSQKEKLKEELGLILEEKCALQR  
QLEDLVEELSFSREQIQRARQTIAEQESKLNEAHKSLSTVEDLKAEIVSASESRKELELK  
HEAEVTNYKIKLEMLEKEKNAVLDRMAESQEAELERLRTQLLFSHEEELSKLKEDLEIEH  
RINIEKLKDNLGIHYKQIDGLQNEMSQKIETMQFEKDNLITKQNLILEISKLDLQQS  
LVNSKSEEMTLQINELQKEIEILRQEEKEKGTLEQEVQELQLKTELLEKQMKEKENDLQE  
KFAQLEAENSILKDEKKTLEDMLKIHTPVSQEERLIFLDSIKSKSDSVWEKEIEILIEE  
NEDLKQCCIQLNEEIEKQRNTFSFAEKNFEVNYQELQEEYACLLKVDDLEDSEKQKQELE  
YKSKLKALNEELHLQRINPTTVKMKSSVFDEDKTFVAETLEMGEVVEKDTTELMKLEVT  
KREKLELSQRLSDLSEQLKQKHGEISFLNEEVKSLKQEKEQVSLRCRELEIIINHNRAN  
VQSCDTQVSSLLDGVTMTSRGAEGSVSKVNKSFGEEKIMVEDKVSFENMTVGEESKQE  
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SQMTNLEDIDVNHKSKLSSLQDLEKTKLEEQVQELESLSLQQLKETEQNYEAEIHCL  
QKRLQAVSESTVPPSLPVDSV VITESDAQRTMYPGSCVKKNIDGTIEFSGEFGVKEETNI  
VKLLEKQYQEQLNEEVAKVIVSMSIAFAQQTELSRISGGKENTASSKQAHAVCQQEQHYF  
NEMKLSQDQIGFQTFETVDVKFKEEFKPLSKELGEHGKEILLSNSDPHDIPESKDCVLT  
SEEMFSKDKTFIVRQSIHDEISVSSMDASRQLMLNEEQLEDMRQELVRQYQEHQQATELL  
RQAHMRQMERQREDQEQLQEEIKRLNRQLAQRSSIDNENLVSERERVLEELEALKQLSL  
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NRLLKILLEVVKTTAAVEETIGRHVLGILDRSSKSQSSASLIWRSEAEASVKSCVHEEHT  
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IQEERELLSRQKEAMKAEAGPVEQQLQETEKLMKEKLEVQCQAEKVRDDLQKQVKALEI  
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KLEQQLKVVPRFQPISEHQTREVEQLANHLKEKTDKCSELLLSKEQLQRDIQERNEEIEK  
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EEQLEQFREELKNKEEVQQLHMQLEIQKKESTTRLQELENKLFKDDMEKLGAIKES  
DAMSTQDQHVLFQKFAQIIQEKEVEIDQLNEQVTKLQQQLKITTDNKVIEEKNELIRDLE  
TQIECLMSDQECVKRNREEEIEQLNEVIEKLQQELANIGQKTSMNAHSLSEEADSLKHQL  
DVVIAEKLALQVETANEEMTFMKNVLKETNFKMNQLTQELFSLKRERESVEKIQSIPE  
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KFCQDNQTISSEPERTNIQNLNQLREDELGSDISALTLRISELESQVVMHTSLILEKEQ  
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ILEKEDETEVQESKKACMFELPIKLSKSIASQTDGTLKISSNQTPQILVKNAGIQINL  
QSECSSEEVTEIISQFTEKIEKMQLHAAEILDMSRHISETETLKREHYVAVQLLKEEC  
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DSFPKKIKGLLRAVHNEGQVLSLTESPYSDGEDHSIQQVSEPWLEERKAYINTISSLD  
LITKMLQREAEVYDSSQSHESFSDWRGELLALQQVFLEERSVLLAAFRTELTAIGTTD  
AVGLLNCLEQRIQEQGVYQAAMECLQKADRRSLLSEIQALHAQMNGRKITLKREQSEK  
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RDKEELEDLKFSLQKQNLQNLLEQQKQLLNESQQKIESQRMLYDAQLSEEQGRNL  
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SRIVELLNETEKYKLDLQTRQQMEKDRQVHRKTLQTEQEANTEGQKKMHQLSKVEDLQ  
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TRNVVLQKQIEGETKESNYAKLIEMNGGTGCNHELEMIRQKLQCVASKLQVLPQKASER  
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REKLTQKSLKRAEAEVYKLAELRNDLQLTSPDSEHVTLKRIYGYLRAESFRKALI  
YQKKYLLLLGGFQECEDATLALLARMGGQPAFTDLEVITNRPKGFTFRSAVRVSIATS  
RMKFLVRRWHRVTGSVININRDGFLNQGAEKTDSEFYHSSGGLELYGEPRHTTYRSRSD  
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STTQFHAGMRR

>sp|Q9P2G1|AKIB1\_HUMAN Ankyrin repeat and IBR domain-containing protein 1 OS=Homo sapiens  
GN=ANKIB1 PE=1 SV=3

MGNSTTKFRKALINGDENLACQIYENNPQLKESLDPNTSYGEPYQHNTPLHYAARHGMNK  
ILGTFGLRGDGNPNKRVHNETHMLLCMGPQIMISEGALHPRLARPTEDDFRRADCLQMI  
LKWKGAKLQGEYERAAIDAVDNKNTPLHYAAASGMKACVELLVKHGGDLFAENENKDT  
PCDCAEKQHHKDLALNLESQMVFSRDPAAEEIEAEYAALDKREPYEGLRPQDLRRLKDML  
IVETADMLQAPLFTAELRAHDWDREKLLEAWMSNPENCCQRSGVQMPTPPPSGYNAWD  
TLPSRTPRTTRSSVTSPDEISLSPGDLDTSLCDICMCSISVFEDPVDMPCGHDFCRGCW  
ESFLNLKIQEGEAHNIFCPAYDCFQLVPVDIIESVVSKEMDKRYLQFDIKAFVENNPAIK  
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KYDFCWICLEEWKHSSTGGYYRCTRYEVIQHVVEQSKEMTVEAEKKHFRQELDRFMH  
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KCSYPYGFLEPKSTKKEIFELMQTDLEMVTEDLAQKVNRPYLRTPRHKIIKAACLVQQK  
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DSLQALSSLDEDDPNILLAIQLSLQESGLALDEETRDFLSNEASLGAIGTSLPSRLDSVP  
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QDPNINDNLLGNIMAWFHDMPQSIALLIPPATTEISADSQLPCIKDGSEGVKDVELVLP  
DSMFEDASVSEGRGTQIEENPLEENILAGEAASQAGDSGNEAANRGDGSVDVSSQTPQTSS  
DWLEQVHLV

>sp|Q53H80|AKIR2\_HUMAN Akirin-2 OS=Homo sapiens GN=AKIRIN2 PE=1 SV=2

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YLRMEPSPFGDVSSRLTTEQILYNIKQEYKRMQKRRHLETSFQQTDPCTSDAQPHAFLL  
SGPASPGTSSAASSPLKKEQPLFTLRQVGMICERLLKEREKRVREYEEILNTKLAEQYD  
AFVKFTHDQIMRRYGEQPASYVS

>sp|Q6GMV1|ALG1L\_HUMAN Putative glycosyltransferase ALG1-like OS=Homo sapiens GN=ALG1L  
PE=2 SV=2

MERSAFMELDAGSRLVMHLREWPALLVSSTGWTEFEQLTDGHNLP SLVCVITGSVDLGV  
CLHMSSSGLDLPKVVDMFGCCLPVCVAVNFKCLHELVKHEENGLVFEDSEELAALQMLFS  
NFPDPAGKLNQFWKNLRESQQLRWDESWVQTVLPLVMDIQLLGQRLKPRDPCCPSRSFFS  
ESQGKPF

>sp|Q9BVK2|ALG8\_HUMAN Probable dolichyl pyrophosphate Glc1Man9GlcNAc2 alpha-1,3-  
glucosyltransferase OS=Homo sapiens GN=ALG8 PE=1 SV=2

MAALTATGTGNWFSALALGVTLLKCLLIPTYHSTD FEVHRNWLAIHSLPISQWYYEAT  
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VRECKCIDGKKVGKELTEKPKFILSVLLLWNFGLLIVDHIHFQYNGFLFGLMLLSIARL  
FQKRHMEGAFLFAVLLHFHKHIYLVAPAYGVYLLRSYCTANKPDGSIRWKSFSFVRVIS  
LGLVFLVSALSGLPFLALNQLPQVFSRLFPFKRGLCHAYWAPNFWALYNALDKVLSVIG  
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GFLRCLTLCALSSFMFGWHVHEKAILLAILPMSLLSVGKAGDASIFLILTTTGHYSLFPL  
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>sp|Q6ZNB7|ALKMO\_HUMAN Alkylglycerol monooxygenase OS=Homo sapiens GN=AGMO PE=1 SV=1

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FLGVDFGYWFHRMAHEVNIMWAGHQTHHSEEDYNLSTALRQSVLQIYTSWIFYSPLALF  
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IIWDKIFGTFEAENEKVYGLTHPINTFEPIKVQFHHLFSIWTTFWATPGFFNKFSVIFK  
GPGWGP GKPRGLSEEIPEVTGKEVPFSSSSS QLLKIYTVVQFALMLAFYEETFADTAAL  
SQVTLLLRVCFIILTLSIGFLLDQRPKAAIMETLRCLMFLMLYRFGHLKPLVPSLSSAF  
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>sp|Q8N944|AMER3\_HUMAN APC membrane recruitment protein 3 OS=Homo sapiens GN=AMER3 PE=1  
SV=2

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EYDRCPNKGALDPKGGPAALCGATFKPVRKCKTHDSMSGAGRATAATGQLVGSASFPGS  
PGSRRMIDYRHFVPQMPFVPAVAKSIPRKRISLKRPKKCFRNLFHIRRNKTEDLASLAAE

GKSLPSPGDPSPDGGRRSKAFLPPGEGPGLDGLCQDLLDSELLADASFGLCRALCEDVAS  
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NEASDFTRFWDSVNRSVRQQRRALLGPWLSGPQGTDRDQSRLDTAGLAELPLCPCRDPRS  
GSKASSIDTGTKSEQPESVSTSEGGYDSFSPGLEEDKKEAESPGTPAATFPRDSYSGD  
ALYELFHDPSSEGPLGPSPDDDLVSESLSGPALGTPLSICSFRVGAEEENLAPAGPDLLS  
QGFLQSSWKGKECLLKLCDTELAITMGIVSWLRRGPTPRAPPTPGQPAAPPGSQGAPRAP  
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QSSSSPSMTTIHGLPYASTQDQRCRDRVQDLWLVEPTGLGVQAWASVEDQPLQLSTE  
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GLLCGQPEVGASGPAMAEPL

>sp|Q86WK6|AMG01\_HUMAN Amphoterin-induced protein 1 OS=Homo sapiens GN=AMIG01 PE=1 SV=1  
MHPHRDPRGLWLLPSLSLLLFEVARAGRAVVS CPAACLCASNILSCSKQQLPNVPHSLP  
SYTALLDLSHNNLSRLAEWTPTRLTQLHSLLLSHNHLNFISSEAFSPVNLRYLDLSSN  
QLRTLDEF LFSDLQVLEVLLLNNHIMAVDRCAFDDMAQLQKLYLSQNQISRFPLELVKE  
GAKLPKLTLLDLSSNKLKNLPLPDLQKLP AWIKNGLYLHNNPLNCDCELYQLFSHWQYRQ  
LSSVMDFQEDLYCMNSKKLHNVFNL SFLNCGEYKERAWEAHLGDTLI IKCDTKQQGMTKV  
WVTPSNERNVLDEVTNGTVSVSKDGSLLFQQVQVEDGGVYTCYAMGETFNETLSVELKVHN  
FTLHGHDTLNTAYTTLVGCILSVVLVLIYLYLTPCRCWCRGVEKPSSHQGDLSLSSMLS  
TTPNHDPMAGGDKDDGDFRRVAFLEPAGPGQGNGKLPKPGNTLPVPEATGKGQRRMSDPE  
SVSSVFSDTPIV

>sp|Q86WK7|AMG03\_HUMAN Amphoterin-induced protein 3 OS=Homo sapiens GN=AMIG03 PE=2 SV=1  
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LRALGRHDL DGLGALEKLLLFNNRLVHLDEHAFHGLRALSHLYLGCNELASFSDHLHGL  
SATHLLTLDLSSNRLGHISVPELAALPAFLKNGLYLHNNPLPCDCLYHLLQRWHQRGLS  
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NTSVPAMRIAWVSPQQELLRAPGSRDGSIAVLADGSLAIGNVQEQHAGLFVCLATGPR LH  
HNQTHEYNVSVHFPRPEPEAFNTGFTTLLGCAVGLVLVLLYLFAPPCRCRRACRCRRWP  
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>sp|Q9Y4X0|AMMR1\_HUMAN AMME syndrome candidate gene 1 protein OS=Homo sapiens GN=AMMECR1  
PE=1 SV=1  
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GGGSGSGCTLSPPGCGGGGGGIALSPPPSCGVGTLLSTPAAATSSSPSSSSAASSSSPG  
SRKMVVS AEMCCFCFDVLYCHLYGYQQPRTPRFTNEPYPLFVTWKIGRDKRLRGICIGTFS  
AMNLHSGLREYTLTSALKDSRFPMTRDELPRLFCSVSLTNFEDVCDYLDWEVG VHGIR  
IEFINEKSGSKRTATYLP EVAKEQWDHIQTIDSLLRKGGYKAPITNEFRKTIKLTRYRSE  
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>sp|Q8IY63|AMOL1\_HUMAN Angiotensin-like protein 1 OS=Homo sapiens GN=AMOTL1 PE=1 SV=1  
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SIREKVVEDPLCNFHSNPLRISEVEMRGSEDAAGTVLQRLIQEQLRYGTPTENMNLLA  
IQHQATGSAGPAHPTNNFSSTENLTQEDPQMVYQSARQEPQGEHQVDNTVMEKQVRSTQ

PQQNNEELPTYEEAKAQSQFFRGGQQQQQQQGAUGHGYMAGGTSQKSRTGRPTVNRAN  
SGQAHKDEALKELKQGHVRSLSERIMQLSLERNQAKQHLPGSGNGKGFVGGGPPSPAQPA  
GKVLDPGRPPPEYPFKTKQMMSPVSKTQEHGLFYGDQHPGMLHEMVKPYAPQPVRTDVA  
VLRYQPPPEYGVTSRPCQLPFPSTMQQHSPMSSQTSSASGPLHSVSLPLPLPMALGAPQP  
PPAASPSQQLGPDFAFAIVERAQQMVEILTEENRVLHQELQGYDNADKLHKFEKELQRIS  
EAYESLVKSTTKRESLDKAMRNKLEGEIRRLHDFNRDLRDRLETANRQLSSREYEGHEDK  
AAEGHYASQNKFLKEKEKLEMELAAVRTASEDHRRHIEILDQALSNAQARVIKLEELR  
EKQAYVEKVEKLQALTLQLSACEKREQMERRLRTWLERELDALRTQQKHGNGQPANMPE  
YNAPALLELVREKEERILALEADMTKWEQKYLEESTIRHFAMNAAATAAERDTTIINHS  
RNGSYGESSLEAHIWQEEEEVVQANRRCDMEYTIKNLHAKIIEKDAMIKVLQQRSRKDA  
GKTDSSSLRPARSVPSIAAATGTHSRQTSLTSSQLAEKKEEKTWKGSI GLLLGKEHHEH  
ASAPLLPPPTSALSSIASTTAASSAHAKTGSKDSSTQTDKSAELFWPSMASLPSRGRLS  
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>sp|Q4VCS5|AMOT\_HUMAN Angiotensin II OS=Homo sapiens GN=AMOT PE=1 SV=1

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GQQHASVGAIFYVTGVTNQMRTEGRPSVQRLNPGKMHQDEGLRDLKQGHVRSLSERLMQ  
MSLATSGVKAHPVTSAPLSPPQPNLYKNPTSSEFYKAQGGLPNQHSKLGMEHRGPPP  
EYPFKGMPPQSVVCKPQEPGHFYSEHRLNQGRTEGQLMRYQHPPEYGAARPAQDISLPL  
SARNSQPHSPTSSLTSGGSLPLLQSPSTRLSAPRHLVLPNQGDHSAHLPRPQQHFLPNQ  
AHQGDHYRLSQPLSQQQQQQQQHSHHHHHQQQQQQQPQQQPGEAYSAMPRAQPSSASY  
QPVPADPFAIVSRAQQMVEILSDENRNLRQELGECYKVARLQKVETEIQRVSEAYENLV  
KSSSKREALEKAMRNKLEGEIRRMHDFNRDLRERLETANKQLAEKEYEGSEDTRKTIISQL  
FAKNKESQREKEKLEAELATARSTNEDQRRHIEIRDQALSNAQAKVVKLEELKKKQVYV  
DKVEKMQQALVQLQAACEKREQLHRLRLRLERELESLRIQQRQGNCPQTNVSEYNAAAL  
MELLREKEERILALEADMTKWEQKYLEENVMRHFALDAAATVAAQRDTTVISHSPNTSYD  
TALEARIQKEEEEILMANKRCLDMEGRIKTLHAQIIEKDAMIKVLQQRSRKEPSKTEQLS  
CMRPAKSLMSISNAGSGLLSHSSLTGSPIMEEKRDDKSWKSLGILLGGDYRAEYVPST  
PSPVPPSTPLLSAHSKTGSRDCSTQTERGTESNKTAAPISVPAPVAAAATAAAITATA  
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PSAAAAAVQVAPAAPVPAPALVPVPAPAAAQASAPAQTAQAPSAPAVAPTAPTPTP  
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EYLI

>sp|P23109|AMPD1\_HUMAN AMP deaminase 1 OS=Homo sapiens GN=AMPD1 PE=1 SV=2

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EVKDEGGRQEISPFVDVEICPISHHEMQAHIFHLETLSSTEARRKKRFQGRKTVNLSIP  
LSETSTKLSHIDEYISSPTYQTVPDFQRVQITGDYASGVTVEDFEIVCKGLYRALCIR  
EKYMQKSFQRFKTPSKYLRNIDGEAWVANESFYVPVTPPVKKGEDPFRTDNLNENLGYH  
LKMKGVVVYYPNEAAVSKDEPKPLPYPNLDTFLLDMNFFLLALIAQGPVKTYTHRRLLKFL  
SSKFQVHQMLNEMDELKELKNNPHRDFYNCRKVDTHIAAACMNQKHLRLFIKSYQIDA  
DRVVYSTKEKNLTLKELFAKLKMHYPDLTVDSLDVHAGRQTFQRFDFNDKYNPVGASEL  
RDLYLKTNDYINGEYFATIIKEVGADLVEAKYQHAEPRLSIYGRSPDEWSKLSSWFCNR  
IHCPNMTWMIQVPRIYDVFRSKNFLPHFGKMLENIFMPVFEATINPQADPELSVFLKHIT  
GFDSVDDESKHSGHMFSSKSPKPEWTLEKNPSYTYYYMYANIMVLNSLRKERGMNTF

LFRPHCGEAGALTHLMTAFMIADDISHGLNLKKSPVLQYLFFLAQIPIAMSPLSNNSLFL  
EYAKNPFLDFLQGLMISLSTDDPMQFHFTKEPLMEEYAIAAQVFKLSTCDMCEVARNSV  
LQCGISHEEKVKFLGDNYLEEGPAGNDIRRTNVAQIRMAYRYETWCYELNLIAEGLKSTE  
>sp|Q07075|AMPE\_HUMAN Glutamyl aminopeptidase OS=Homo sapiens GN=ENPEP PE=1 SV=3

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PSSTASPSGPPAQDQDIPASEDESGQWKNFRLPDFVNPVHYDLHVKPLLEEDTYTGTVS  
ISINLSAPTRYLWLHLRETRITRLPELKRPSGDQVQVRRCFEYKKQEYVVVEAEEELTPS  
SGDGLYLLTMEFAGWLNGSLVGFYRTTYTENGQVKSIVATDHEPTDARKSFPCFDEPNKK  
ATYTIISITHPKEYGALSNNPVAKEESVDDKWTRTTFEKSVPMSLYLVCFAVHQFDSVKRI  
SNSGKPLTIYVQPEQKHTAEYAANITKSVFDYFEEYFAMNYSPLKLDKIAIPDFGTGAME  
NWGLITYRETNLLYDPKESASSNQQRVATVVAHEL VHQWFGNIVTMDWWEDLWLNFGFAS  
FFEFLGVNHAETDWQMRDQMLLEDVLPVQEDDSLSSHPIIVTVTTPDEITSVFDGISYS  
KGSSILRMLLEDWIKPENFQKGCQMYLEKYQFKNAKTSDFWAAL EASRLPVKEVMDTWTR  
QMGYPVLNVNGVKNITQKRFLDPRANPSQPPSDLGYTNIPVKWTEDNITSSVLFNRSE  
KEGITLSSNPSSGNAFLKINPDHIGFYRVNYEVATWDSIATLSLNHKTFSADRSLID  
DAFALARAQLLDYKVALNLTKYLKREENFLPWQRVISAVTYIISMFEDDKELYPMIEEYF  
QGQVKPIADSLGWNDAHDVTKLLRSSVLGFACKMGDREALNASSLFEQWLNGTVSLPV  
NLRLLVYRYGMQNSGNEISWNYTLEQYQKTSLAQEKEKLLYGLASVKNVTLLSRYLDLLK  
DTNLIKTQDVFTVIRYISYNSYGNMAWNWIQLNWDYLVNRYTLNNRNLGRIVTIAEPFN  
TELQLWQMESFFAKYPQAGAGEKPREQVLETVKNNIEWLKQHRNTIREWFFNLLESG

>sp|Q8N6M6|AMPO\_HUMAN Aminopeptidase O OS=Homo sapiens GN=AOPEP PE=1 SV=2

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EEACQSESNAKCKFGMPEPCHIPVTNARTFSSEMEYNDFAI CSKGEKDTSDKDGNDHNDQE  
HASGISSSKYCCDTGNHGSDFLLVLDCDLSVLKVEEVDVAAPVPLEKFTRSPELTVVS  
EEFRNQIVRELVTLPANRWREQLDYARCSQAPGCGELLFDTDTWSLQIRKTGAQTATDF  
PHAIRIWKTKPEGRSVTWTSDQSGRPCVYTVGSPINNRLFPCQEPVAMSTWQATVRA  
AASFVVLMSGENSAKPTQLWEECSSWYYYVTMPMPASTFTIAGCWTEMKMETWSSNDLA  
TERPFPSPSEANFRHVGVCSHMEYPCRFQNASATTQEII PHRVFAPVCLTGACQETLLRLI  
PPCLSAAHSVLGAHPFSRLDVLIVPANFPSLGMASPHIMFLSQSILTGGNHLCGTRLCHE  
IAHAWFLAIGARDWTEEWLSEGFATHLEDVFWATAQQLAPYEAREQQELRACLRWRRLQ  
DEMQCSPEEMQVLRPSKDKTGHTSDSGASVIKHGLNPEKIFMQVHYLKGYFLLRFLAKRL  
GDETYFSFLRKVFHTFHGQLILSQDFLQMLLENIP EEKRELSVENIYQDWLESSGIPKP  
LQRERRAGAECGLARQVRAEVTKWIGVNRPRKRKRREKEEVFEKLLPDQLVLLLEHLL  
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>sp|Q400G9|AMZ1\_HUMAN Archaeometzincin-1 OS=Homo sapiens GN=AMZ1 PE=1 SV=1

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EAFFLGLRVKCLPSVAAASIRCSSRPSRDSRLQLHTDGILSFLKNNKPGDALCVLGLTL  
SDLYPHEAWSFTFSKFLPGHEVGVC SFARFSGEFPKSGPSAPDLALVEAAADGPEAPLQD  
RGWALCFSALGMVQCCKVTCHELCHLLGLGNCRWLRCLMQGALSLEALRRPLDLCPICL  
RKLQHVLGFRLIERYQRLYTWTQAVVGTWPSQEAGEPSVWEDTPPASADSGMCCESDSEP  
GTSVSEPLTPDAGSHTFASGPEEGLSYLAASEAPLPPGGPAEAIKEHERWLAMCIQALQR  
EVAEEDLVQVDRAVDALDRWEMFTGQLPATRQDPPSSRDSVGLRKVLGDKFSSLRRKLSA



RKLARAESAPRPWDGEES

>sp|A2A2Z9|AN18B\_HUMAN Ankyrin repeat domain-containing protein 18B OS=Homo sapiens  
GN=ANKRD18B PE=1 SV=1

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LDVRDRKDRTVLHLACAHGRVQVVTLTLLDRKCQINICDRLNRTPLMKAVHCQEEACAIL  
LKRGANPNIKDIYGNTALHYAVYNEGTSLAERLLSHHANIEALNKEGNTPLLFAINSRQ  
HMVEFLLNQANIHAVDNFKRTALILAVQHNLSSIVTLLQQNIHISSQDMFGQTAEDYA  
FCCDLRSIQQQILEHKNMMLKNHLRNDNQETAAMKPENLKKRKKRKKLKKRKEGAKAEHN  
LKVASEEKQERLERSENKQPQDSQSYGKKKDEMFGNFMKRDIAMLKEELYAIKNDSLRK  
EKKYIQEIKSITEINANFEKSVRLNEEMITKKVAQYSQQLNDLKAENARLNSKLEKEKHN  
KERLEAEVESLHSNLATAINEYNEILERKDLELVLWRADDVSRHETMGSNISQLTDKNEL  
LTEQVHKARVKFNTLKGKLRETRDALREKTLALESVQLDLKQAQHRKEMKQMHPNGEAK  
ESQSIGKQNSSEERIRQRELENLLERQLEDARKEGDNKEIVINIHRDCLENGKEDLLEE  
RNKELMNEYNYLKEKLLQYEKEKAEREVIVREFQEELVDHLKKFSMSESPLEGTSHCHIN  
LDETWSKKKLFQVEIQPEEKHEEFRKVFELISLLNYTADQIRKKNRELEEEATGYKKCL  
EMTINMLNAFANEDFSCHGDLNTDQLKMDILFKKLKQFDDLMAEKEAVSSKCVNLAKDN  
EVLHQELLSMGKVQEKCEKLEKDKMEEKVLNLKTHMEKDMVELGKVQEYKSELERAM  
QAIEKLEEIHLKQAEYEKQLEQLNKDNTASLKKKELTLKDVECKFSKMKTAYEDVTTEL  
EEYKEAFAVALKANSSMSEKITKSDKKIAVISTKLFMEKERMEYFLSTLPMRPDPELPCV  
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>sp|Q9BXX3|AN30A\_HUMAN Ankyrin repeat domain-containing protein 30A OS=Homo sapiens  
GN=ANKRD30A PE=2 SV=3

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CANILIDSGADINLVDVYGNTALHYAVYSEILSVVAKLLSHGAVIEVHNKASLTPLLSI  
TKRSEQIVEFLLIKNANANAVNKYKCTALMLAVCHGSSEIVGMLLQQNVDFVAADICGVT  
AEHYAVTCGFHHIHEQIMEYIRKLSKNHQNTNPEGTSAGTPDEAAPLAERTPDTAESLVE  
KTPDEAAPLVERTPDTAESLVEKTPDEAASLVEGTSKIQCLEKATSGKFEQSAEETPRE  
ITSPAKETSEKFTWPAKGRPRKIAWEKKEDTPREIMSPAKETSEKFTWAAKGRPRKIAWE  
KKETPVKTGCVARVTSNKTKVLEKGRSKMIACPTKESSTKASANDQRFPSKQEEDEEY  
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KNEQTLRADPMFPPEKQKDYEENSWDSESLCETVSQKDVCLPKATHQKEIDKINGKLEE  
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DNDGFLKAPCRMVSIPTKALELMDMQTFKAEPPEKPSAFEPATEMQKSVPNKALELKNE  
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KSVESNLNQVSHTHENENYLLHENCMLKKEIAMLKLEIATLKHQYQEKENKYFEDIKILK  
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RLASAVQDHDQIVTSRKSQEPAFHIAGDACLRKMNVDVSSTIYNNEVLHQPLSEAQRKS  
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QKLFQLQSKNMWLQQQLVHAHKKADNKSKITIDIHFLERKMQHLLKEKNEEIFNYYNNHL  
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>sp|Q92688|AN32B\_HUMAN Acidic leucine-rich nuclear phosphoprotein 32 family member B  
OS=Homo sapiens GN=ANP32B PE=1 SV=1

MDMKRRIHLELRNRTPAAVRELVLDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNL  
PKLPKCLKLELSENRIFGGLDMAEKLPNLTHLNLSGNKIKDLSTVEALQNLKNLKSDDL  
FNCEVTNLNDYRESVFKLLPQLTYLDGYDREDQEAPSDAEVDGVDEEEDEEGEDEEDE  
DDEDEGEEEFDEEDEDEDVEGDEDDDEVSEEEEFGLDEEDEDEDEDEEEEGKGGEKR  
KRETDDEGEDD

>sp|Q9BT0|AN32E\_HUMAN Acidic leucine-rich nuclear phosphoprotein 32 family member E  
OS=Homo sapiens GN=ANP32E PE=1 SV=1

MEMKKKINLELRNRSPEEVELVDNCLCVNGEIEGLNDFKELEFLSMANVELSSLARL  
PSLNKLRKLELSDNIISGGLEVLAIEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKSDDL  
FNCEITNLEDYRESIFELLQITYLDGFDQEDNEAPDSEEEDEDEDGDEDEDEEEENEAGP  
PEGYEEEEEEEEDEDEDEDEDEAGSELGEGEEVGLSYLMKEEIQDEEDDDDYVEEGE  
EEEEEEGGGRGEKRKRDAEDDGEEEDD

>sp|A6NCL7|AN33B\_HUMAN Ankyrin repeat domain-containing protein 33B OS=Homo sapiens  
GN=ANKRD33B PE=3 SV=1

MVLLAGTGPEGGGARCMTPPPPSPPRGAQVEEDPADYEEFEDFSSLPDTRSIASDDSFYP  
FEDEEEHGVSASVPEGPVESPETATLLRAACANNVGLLRTLVRGVSVEEAQETDRN  
GRTGLIVACYHGFVDTVVALAECPHVDVNWQDSEGNTALITAAQAGHAIITNYLLNYFPG  
LDLERRNAFGFTALMKAAMQGRDTCIRALMLAGADVHARDPRRGMSPQEWATYTGRVDAV  
RLMQRLRLRCPCEQFWEKYRPELPPPEAARKPAGSKNCLQRLTDCVLSVLTPRSVRGPE  
DGGVLDHVMRMTTSLYSPAVAIVCQTVCPESPSPVGRRLAVQEILAARAARGPQAQED  
EVGGAGQGRGTGQEDADSREGSPRAGLPPALGSRGPAAPAPRKASLLPLQRLRRRSVRPG  
VVVPRVRVSKAPPTFQPERPARKGSTKDSGHLQIPKWRYKEAKEEKRKAEEAEKKRQAE  
AQKERRTAPWKKRT

>sp|POC6C1|AN34C\_HUMAN Ankyrin repeat domain-containing protein 34C OS=Homo sapiens  
GN=ANKRD34C PE=3 SV=2

MMDDDELRTDGNLLKAVWLGRRLRLRLLEGGAYINESNDKGETALMVACITKHVDQQ  
SISKSMVKYLLDNRADPNIQDKSGKTALIHACIRRAGGEVVSLLLENGADPSLEDRTGA  
SALVYAINADKDALKHLLDACKAKGKEVIIITTDKSSSGTKTKQYLNVPSPKVEDRH  
SPPLCASPSDIELKALGLDSPLTEKEDDFSLQAGHPSSCNTSKAVNEPGSPTRKVSNLK  
RARLPQLKRLQSEPWGLIAPSVLAASRQDETHGASTDNEVIKSISDISFPKRGPLSRTN  
SIDSKDPTLFHTVTEQVLKIPVSSAPASWKAAYEKGQAPHRLARRGTLPVDQEKCGMGP  
SGPSALKEPASLKWLENDLYLDIQPGDPPNISLESKGKPLDRKKLNSSHLSLFHGSR  
ESLDTVPSTSPSSARRRPPHLLERRSGTLLLDRISTRPGFLPLNVNLNPPIPDIRSS  
SKPSCSLASGLKSMVPVAPSSPKRVDLRSKKKLLRRHSMQIEQMKQLSDFEEIMT

>sp|Q9UNK9|ANGEL1\_HUMAN Protein angel homolog 1 OS=Homo sapiens GN=ANGEL1 PE=1 SV=1

MIASCLCYLLPATRLFRALSDAFFTCRKNVLLANSSSPQVEGDFAMAPRGPEQEECEGL  
LQQWREEGLSQVLSTASEGPLIDKGLAQSSLALLMDNPGEENAASEDRWSSRQLSDLRAA  
ENLDEPFPEMLGEEPLLEVEGVEGSMWAAIPMQSEPQYADCAALPVGALATEQWEEDPAV  
LAWSIAPEVPVQEEASIWPFEGGLQPPAVEIPYHEILWREWEDFSTQPDAGGLKAGDG  
PQFQFTLMSYNILAQDLMQSSSELYLHCHPDILNWNRYFVNLMEFQHWDPDILCLQEVQ

EDHYWEQLEPSLRMMGFTCFYKRRTGCKTDGCAVCYKPTRFRLLCASPVEYFRPGLELLN  
RDNVGLVLLLQPLVPEGLGQVSVAPLCVANTHILYNPRRGDVKLAQMAILLAEDVKVARL  
SDGSHCPILCGDLNSVPDSPLYNFIRDGELQYHGMPAWKVSGQEDFSHQLYQRKLQAPL  
WPSSLGITDCCQYVTSCHPKRSERRKYGRDFLLRFRFCSIACQRPVGLVLMEGVTDTKPE  
RPAGWAESVLEEDASELEPAFSRTVGTIQHCLHLTSVYTHFLPQGRPEVTTMPLGLGMT  
VDYIFFSAESCENGNRDTHRLYRDGTLKLLGRLSLLSEEILWAANGLPNPFCSSDHLCLL  
ASFGMEVTAP

>sp|Q9UKU9|ANGL2\_HUMAN Angiopoietin-related protein 2 OS=Homo sapiens GN=ANGPTL2 PE=2  
SV=1

MRPLCVTCWWLGLLAAMGAVAGQEDGFEGTEEGSPREFIYLNRYKRAGESQDKCTYTFIV  
PQQRVTGAICVNSKEPEVLLERNVHKQELELLNELLKQKRQIETLQQLVEVDGGIVSEV  
KLLRKESRNMNSRVTQLYMQLLHEIIRKRDNALELSQLENRILNQTADMLQLASKYKDLE  
HKYQHLATLAHNQSEIIAQLEEHQQRVPSARVPVQPPPAAPPRVYQPPTYNRIINQISTN  
EIQSDQNLKVLPPPLPTMPTLTSLPSSTDKPSGPWRDCLQALEDGHDTSIYLVKPENTN  
RLMQVWCDQRHDPGGWTVIQRRLDGSVNFFRNWETYKQGFNIDGEYWLGLENIYWLTNQ  
GNYKLLVTMEDWSGRKVFAEYASFRLEPESEYKLRRLGRYHGNAGDSFTWHNGKQFTLD  
RDHDVYTGNAHYQKGGWWYNACAHSNLNGVWYRGGHYRSRYQDGVYWAEFRGGSYSLKK  
VMMIRPNPNTFH

>sp|Q9Y5C1|ANGL3\_HUMAN Angiopoietin-related protein 3 OS=Homo sapiens GN=ANGPTL3 PE=1  
SV=1

MFTIKLLLFIPLVISSRIDQDNSSFDSLSEPKSRFAMLDVVKILANGLLQLGHGLKDF  
VHKTKGQINDIFQKLNIFDQSFYDLSLQTSEIKEEELRRTTYKLQVKNEEVKNMSLEL  
NSKLESLLEEKILLQKVKYLEEQLTNLIQNPETPEHPEVTSKTFVEKQDNSIKDLLQ  
TVEDQYKQLNQHSQIKEIENQLRRTSIQEPTAISLSSKPRAPRTTPFLQLNEIRNVKHD  
GIPAECTTIYNRGEHTSGMYAIRPSNSQVFHVYCDVISGSPWTLIQHRIDGSQNFNETWE  
NYKYGFGRLDGEFWLGLEKIYSIVKQSNYVLRIELEDWKNKHYYIESFYLGHNHETNYTL  
HLVAITGNVPNAIPENKDLVFSTWDHKAKGHFNCPEGYSGGWWHDECGENNLNGKYNKP  
RAKSKPERRRGLSWKSQNGRLYSIKSTKMLIHPTDSESFE

>sp|Q12955|ANK3\_HUMAN Ankyrin-3 OS=Homo sapiens GN=ANK3 PE=1 SV=3

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EVVKVLVTNGANVNAQSQNGFTPLYMAAQENHLEVVKFLLDNGASQSLATEDGFTPLAVA  
LQQGHDQVVSLLLENDTKGKVRPALHIAARKDDTKAAALLQNDNNADVESKSGFTPLH  
IAAHYGNINVATLLLNRAAAVDFTARNITPLHVASKRGANMVKLLDRGAKIDAKTRD  
GLTPLHCGARGSGHEQVVEMLLDRAAPILSKTKNGLSPLHMAQGDHLNCVQLLLQHNPV  
DDVTNDYLTALHVAACHGHYKVAKVLLDKKANPNAKALNGFTPLHIACKKNRIKVMELL  
KHGASIQAVTESGLTPIHVAAFMGHVNIQSMLMHGASPNTTNVRGETALHMAARSGQAE  
VVRYLVQDGAQVEAKAKDDQTPLHISARLGKADIVQQLLQGGASPNAATTSGYTPLHLSA  
REGHEDVAAFLLDHGASLSITTKKGFTPLHVAAYGKLEVANLLQKSASPDAAGKSGLT  
PLHVAHYDNQKVALLLLDQGASPHAAKNGYTPLHIAAKKNQMDIATTLLEYGADANAV  
TRQGIASVHLAAQEGHDMVSLLLGRNANVNLSNKSGLTPLHLAAQEDRVNVAEVLVNQG  
AHVDAQTKMGYTPLHVGCHYGNIKIVNFLLQHSKVNKTKNGYTPLHQAQQGHTHIIN  
VLLQNNASPNELTVNGNTALGIARRLGYISVVDTLKIVTEETMTTTTTEKHKMNVPETM  
NEVLMSDDEVRKANAPEMLSDGEYISDVEEGEDAMTGDTDKYLGPQDLKELGDDSLPAE

GYMGFSLGARSASLSRFSSDRSYTLNRSSYARDSMMIEELLVPSKEQHLTFTREFDSDSL  
RHYSWAADTLDNVNLVSSPIHSGFLVSFMDARGGSMRGRHHGMRIIPPRKCTAPTRI  
TCRLVKRHKLANPPPMVEGEGLASRLVEMGPAGAQLGPVIVEIPHFGSMRGKERELIVL  
RSENGETWKEHQFDSKNEDLTELLNGMDEELDSPEELGKKRICRIITKDFPQYFAVVSRI  
KQESNQIGPEGGILSSTTVPLVQASFPEGALTKRIRVGLQAQVPVDEIVKKILGNKATFS  
PIVTVEPRRRKFHKPITMTIPVPPPSGEGVSNKYKGDTPNLRLCSITGGTSPAQWEDI  
TGTTPLTFIKDCVSFTTNVSARFWLADCHQVLETVGLATQLYRELICVPYMAKFVVFAKM  
NDPVESSLRCFCMTDDKVDKLEQQENFEEVARSKDIEVLEGKPIYVDCYGNLAPLTKGG  
QQLVNFYFSKENRPFPSIKIRDTSQEPCGRLSFLKEPKTTKGLPQTAVCNLNLTPAHK  
KETESDQDDEIEKTDRRQSFASLALRKRYSYLTEPGMIERSTGATRSPLTTYSYKPPFFST  
RPYQSWTTAPITVPGPAKSGFTSLSSSSNTPSASPLKSIWSVSTPSPIKSTLGASTTSS  
VKSISDVASPIRSFRMTSSPIKTVVVSQSPYNIQVSSGTLARAPAVTEATPLKGLASNSTF  
SSRTSPVTTAGSLLERSSITMTPPASPKSNINMYSSSLPFSIITSAAPLISSPLKSVVS  
PVKSAVDVISSAKITMASSLSSPVKQMPGHAVALVNGSISPLKYPSSSTLINGCKATAT  
LQEKISSATNSVSSVSAATDVEKVFSTTTAMPFSPLRSYVSAAPSAFQSLRTPSASAL  
YTSLGSSISATTSSVTSSIITVPVYSVVNVLPEPALKKLPDSNSFTKSAAALLSPIKTLT  
TETHPQPHFSRTSSPVKSSLFLAPSALKLSTPSSLSSQEILKDVAEMKEDLMRMTAILQ  
TDVPPEEKPFQPELPKEGRIDDEEPFKIVEKVKEDLVKVSEILKKDVCVDNKGSPKSPKSD  
KGHSPEDDWIEFSSEEIREARQQAASQSPSLPERVQVKAKAASEKDYNLTKVIDYLTND  
IGSSSLTNLKYKFEDAKKDGEERQKRVLKPAIALQEHKLMPASPMTSTSEKELCKMAD  
SFFGTDITLESPDDFSQHDQDKSPLSDSGFETRSEKTPSAPQSAESTGPKPLFHEVPIPP  
VITETRTEVVHVIRSYPDPSAGDVPQTQPEEPVSPKPSPTFMELEPKPTSSIKEKVKAQ  
MKASSEEDDHNRVLSKGMVRKEETHITTTTRMVYHSPPGGEGASERIEETMSVHDIMKAF  
QSGRDPSELKLAGLFEHKSASVDPVHKSAAETSAQHAEDNQMKPKLERIEVHIEKGNQA  
EPTEVIRETKKHPEKEMYVYQKDLSRGDI NLKDFLPEKHDAFPCSEEQQQEEEELTAE  
ESLPSYLESSRVNTPVSQEEDSRPSSAQLISDDSYKTLKLLSQHSIEYHDELSELRGES  
YRFAEKMLLSEKLDVSHSDTEESVTDHAGPPSSELQGS DKRSREKIATAPKKEILSKIYK  
DVSENGVGKVSKEHFDKVTVLHYSGNVSSPKHAMWMRFTEDRDLDRGREKLIYEDRVDRT  
VKEAEEKLTEVSQFFRDKTEKLNDELQSPEKKARPKNKEYSSQSPTSSSPEKVLLTELL  
ASNDEWVKARQHGPDQGFPKAEKAPSLPSSPEKMLVLSQQTEDSKSTVEAKGSISQSKA  
PDGPQSGFQLKQSKLSSIRLKFEGQTHAKSKDMSQEDRKSDGQSRIPVKKIQUESKLPHYQ  
VFAREKQKKAIDLDESVSQKDFMVLKTKDEHAQSNEIVVNDSGSDNVKKQRTMSSKA  
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NHGHPESKSVQKNEFMSTVERERKLLTNGSLSEIKEMTVKSPSKVLYREYVVKEGDH  
PGGLLDQPSRRSESSAVSHIPVRVADERRMLSSNIPDGFCEQSAFPKHLSQKLSQSSMS  
KETVETQHFNSIEDEKVTYSEISKVSKHQSYVGLCPPLEETETSPTKSPDSLEFSPGKES  
PSSDVFDHSPIDGLEKLAPLAQTEGGKEIKTLPVYVSFVQVGKQYEKEIQQGGVKKISQ  
ECKTVQETRGTFYTTTRQKQPPSPQGSPEDDTLEQVSFLDSSGKSPLTPETPSSEEVSYE  
FTSKTPDSLAIYIPGKPSPIPEVSESEEEEEQAKSTSLKQTTVEETAVEREMPNDVSKDS  
NQRPKNNRVAYIEFPPPPPLDADQIESDKKHHYLPKEVDMIEVNLQDEHDKYQLAEPVI  
RVQPPSPVPPGADVSDSSDDESIYQVPVVKKYTFKLKEVDDEQKEKPKASAEKASNQKEL  
ESNGSGKDNEFGLGLDSPQNEIAQNGNNDQSITECSIATTAEFSHDTDATEIDSLDGYDL  
QDEDDGLTESDKLPIQAMEIKKDIWNTEGILKPADRSFSQSKLEVIEEKGKVPDEDKP  
PSKSSSSEKTPDKTDQKSGAQFFTLEGRHPDRSVFPDTYFSYKVDEEFATPFKTVATKGL

DFDPWSNNRGDDEVFDSKSREDETKPFGLAVEDRSPATTPDTPPARTPTDESTPTSEPNP  
FPFHGKMFEMTRSGAIDMSKRDFVEERLQFFQIGEHTSEGKSGDQGEQDKSMVTATPQP  
QSGDTTVETNLERNVETPTVEPNPSIPTSGECQEGTSSSGSLEKSAAATNTSKVDPKLRT  
PIKMGISASTMTMKKEGPEITDKIEAVMTSCQGLENETITMISNTANSQMGPVPHEKHD  
FQKDNFNNNNNLDSSTIQTDNIMSNIVLTEHSAPTCTTEKDNPVKVSSGKKTGVLQGHCV  
RDKQKVLGEQQKTKELEGIRQKSKLPIKATSPKDTFPPNHSNTKASKMKQVSQSEKTKA  
LTTSSCVDVKSRIPIVKNTHRDNI IAVRKACATQKQGQPEKGKAKQLPSKLPVKVRSTCVT  
TTTTTATTTTTTTTTTTTTSCTVKVRKSQLKEVCKHSIEYFKGISGETLKLVDRLSEEEKK  
MQSELSDEEESTSRNTSLSETSRGGQPSVTTKSARDKKTEAAPLKSSEKAGSEKRSSRR  
TGPQSPCERTDIRMAIVADHLGLSWTELARELNFSVDEINQIRVENPNLSISQSFMLLKK  
WVTRDGKNATTDALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENNVFHDVPDVGW  
QNETSSGNLESCAQARRVTGGLLDRLDDSPDQCRDSITSYLKGEAGKFEANGSHTETPE  
AKTKSYFPESQNDVGKQSTKETLKPkihGSGHVEEPASPLAAYQKSLEETSKLIIETKP  
CVPVSMKKMSRTSPADGKPRLSLHEEEGSSGSEQKQGEQGVKTKKEIRHVEKKS

>sp|Q9NQW6|ANLN\_HUMAN Anillin OS=Homo sapiens GN=ANLN PE=1 SV=2

MDPFTEKLLERTRARENLRKMAERPTAAPRSMTHAKRARQPLSEASNQQPLSGGEEKS  
CTKPSPSKKRCSNTEVEVSNLENKQVESTSAKSCSPSPVSPVQVQQAADTISDSVAVP  
ASLLGMRRGLNSRLEATAASSVKTRMQKLAEQRRRWDDMTDDIPESLFSMPSEEKA  
ASPPRPLLSNASATPVGRRGRLANLAATICSWEDDVNHSFAKQNSVQECPGTACLSKFSS  
ASGASARINSSSVKQEATFCSQRDGDASLNKALSSADDASLVNASISSSVKATSPVKST  
TSITDAKSCGQNPPELLPKTPI SPLKTGVSKPIVKSTLSQTVPSKGELSREICLSQSKD  
KSTTPGGTGIKPFLERFGERCQEHSKESPARSTPHRTPIITPNTKAIQERLFKQDTSST  
THLAQQLKQERQKELACLGRFDKGNIWSAEKGGNSKSKQLETKQETHCQSTPLKKHQGV  
SKTQSLPVTEKVTENQIPAKNSSTEPKGFTECEMTKSSPLKITLFLEEDKSLKVTSDPKV  
EQKIEVIREIEMSVDDDDINSSKVINDLFSVDVLEEGELMEKSQEEMDQALAESSEEQED  
ALNISSMSLLAPLAQTVGVVSPESLVSTPRLELKDTSRSESPKPGKFQRTVRPRAESGD  
SLGSEDRDLLYSIDAYRSQRFKETERPSIKQVIVRKEDVTSKLDEKNAFPCQVNIQKM  
QELNNEINMQQTVIYQASQALNCCVDEEHGKGSLEEAEERLLL IATGKRTLLIDELNKL  
KNEGPQRKNKASPQSEFMPSKGSVTLSEIRLPLKADFVCSTVQKPDAAYYYYLIILKAGA  
ENMVATPLASTSNSLNGDALFTTTFTLQDVSNDFEINIEVYSLVQKKDPSGLDKKKKTS  
KSKAITPKRLITSITTSNIHSSVMASPGGLSAVRTSNFALVGSYTLSSVGN TKFVLD  
KVPFLSSLEGHIYLIKQCVNSSVEERGFLTIFEDVSGFGAWHRRWCVLSGNCISYWTYP  
DDEKRKNPIGRINLANCTSRQIEPANREFCARRNTFELITVRPQREDDRETLSQCRDTL  
CVTKNWSADTKERDLWMQKLNQVLVDIRLWQPDACYKPIGKP

>sp|Q99873|ANM1\_HUMAN Protein arginine N-methyltransferase 1 OS=Homo sapiens GN=PRMT1  
PE=1 SV=2

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYFDSYAHFGIHEEMLKDE  
VRTLTyrNSMFHNRHLFKDKVVLVDVSGTGILCMFAAKAGARKVIGIECSSISDYAVKIV  
KANKLDHVVTIIKGVVEEVELPVEKVDIIISEWMGYCLFYESMLNTVL YARDKWLAPDGL  
IFPDRATLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPLVDVDPKQLVTNAC  
LIKEVDIYTVKVEDLTFTSPFCLQVQRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYT  
HWKQTVFYMEDYLVKTGEEIFGTIGMRPNAKNNRDLDFIDLDFKGQLCELSCSTDYRM

R

>sp|Q9NR22|ANM8\_HUMAN Protein arginine N-methyltransferase 8 OS=Homo sapiens GN=PRMT8  
PE=1 SV=2

MGMKHSRCLLLRRKMAENAAESTEVNSPPSQPPQPVVPAKPVQCVHHVSTQPSCPRGK  
MSKLLNPEEMTSRDYFDSYAHFGIHEEMLKDEVRTLTYRNSMYHNKHVFKDKVLDVGS  
GTGILSMFAAKAGAKKVFGIECSSISDYSEKIIKANHLNIIITIFKGKVEEVELPVEKVD  
IIISEWMGYCLFYESMLNTVIFARDKWLKPGGLMFPDRAALYVVAIEDRQYKDFKIHWE  
NVYGFDMTCIRDVAMKEPLVDIVDPKQVVTNACLIKEVDIYTVKTEELSFTSAFCLQIQR  
NDYVHALVTYFNIEFTKCHKKMGFSTAPDAPYTHWKQTVFYLEDYLTVRRGEEIYGTISM  
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>sp|Q75V66|ANO5\_HUMAN Anoctamin-5 OS=Homo sapiens GN=ANO5 PE=1 SV=1

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FQKNQSKDSIFFRDGIQIDFVLSYVDDVKKDAELKAERRKEFETNLRKTGLELEIEDK  
RDSEDGRTYFVKIHAPWEVLVTYAEVLGIKMPIKESDIPRPKHTPISYVLGPVRLPLSVK  
YPHPEYFTAQFSRHRQELFLIEDQATFFPSSSRNRIVYYILSRCPFGIEDGKKRFGIERL  
LNSNTYSSAYPLHDGQYWKPEPPNPTNERYTLHQNWARFSYFYKEQPLDLIKNYYGEKI  
GIYFVFLGFYTEMLFFAAVVGACFIYGLLSMEHNTSSTEICDPEIGGQMIMCPLCDQVC  
DYWRLNSTCLASKFSLFDNESTVFFAIFMGIWVTLFLEFWKQRQARLEYEWDLVDFEEE  
QQQLQLRPEFEAMCKHRKLNAVTKEMEPYMPLYTRIPWYFLSGATVTLWMSLVVTSMAV  
IVYRLSVFATFASFMESDASLKQVKSFLTPQITTSLTGSCNFIIVILILNFFYEKISAWI  
TKMEIPRTYQEYESSLTLMKFLFQFVNFYSSCFYVAFFKKGKFGYPGKYTYLFNEWSEE  
CDPGGCLIELTTLTIIMTGKQIFGNKEAIYPLALNWWRRRKARTNSEKLYSRWEQDHD  
LESFGPLGLFYEYLETVTQFGFVTLFVASFPLAPLLALINNIVEIRVDAWKLTTQYRRTV  
ASKAHSIGVWQDILYGMVLSVATNAFIVAFTSDIIPRLVYYYAYSTNATQPMGTGVNNS  
LSVFLIADFPNHTAPSEKRDFITCRYRDYRPPDENKYFHNMQFWHVLAAKMTFIIIVME  
HVVFLVKFLLAWMIPDPKDVVERIKREKLMTIKILHDFELNKLKENLGINSNEFAKHVM  
IEENKAQLAKSTL

>sp|P17342|ANPRC\_HUMAN Atrial natriuretic peptide receptor 3 OS=Homo sapiens GN=NPR3 PE=1  
SV=2

MPSLLVLTFSPCVLLGWALLAGGTGGGGVGGGGGAGIGGRQEREALPPQKIEVLVLLP  
QDDSYLFSLTRVPAIEYALRSVEGNGTGRRLPPGTRFQVAYEDSDCGNRALFSLVDRV  
AAARGAKPDLILGPVCEYAAAPVARLASHWDLPMLSAGALAAGFQHKDSEYSHLTRVAPA  
YAKMGEMMLALFRHHHSRAALVYSDDKLERNCYFTLEGVHEVFQEEGLHTSIYSFDETK  
DLDEDIVRNIQASERVVIMCASSDTIRSIMLVHRHGMTSGDYAFFNIELFNSSSYGDG  
SWKRGDKHDFEAKQAYSSLQTVTLRTVKPEFEKFSMEVKSSVEKQGLNMEDYVNMFVEG  
FHDAILLYVLALHEVLRAGYSKKDGGKIIQQTWNRTFEGIAGQVSIDANGDRYGDFSVIA  
MTDVEAGTQEVIGDYFGKEGRFEMRPNVKYPWGPKLRIDENRIVEHTNSSPCKSSGGLE  
ESAVTGIVVGALLGAGLLMAFYFFRKKYRITIERRTQQEESNLGKHRELREDSIRSHFSV  
A

>sp|Q8N6D5|ANR29\_HUMAN Ankyrin repeat domain-containing protein 29 OS=Homo sapiens  
GN=ANKRD29 PE=2 SV=2

MCRMSFKKETPLANAAFWAARRGNLALLKLLNSGRVDVDCRDSHGTTLLMVAAYAGHID  
CVRELVLQGADINLQRESGTTALFFAAQQGHNDVVRFLFGFGASTEFRTKDGGTALLAAS  
QYGHMQVVETLLKHGANIHDQLYDGATALFLAAQGGYLDVIRLLLASGAKVNQPRQDGT  
PLWIASQMGHSEVVRVMLLRGADRDAARNDGTTALLKAANKGYNDVIKELLKFSPTLGIL

KNGTSALHA AVL SGN IKT VALL LEAGADPSLRNKANELPAELTKNERILRLRSKEGPRK

S

>sp|Q3KP44|ANR55\_HUMAN Ankyrin repeat domain-containing protein 55 OS=Homo sapiens  
GN=ANKRD55 PE=1 SV=3

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GCTPLMHAVSGRQADTVKLLKMGANINMQDAYGRTSLCLATYLGWLEGCVSLLRNGAKH  
NIPDKNGRLPLHAATAEPMRLLTVLLQQSNISEINHQDNEGMTPLHWA AFHNQPQHTQM  
LLKKGADPTLVKDFKTALHWAVQSGNRILCSIILSHHQGPSIINYDDESGKTCVHIAAA  
AGFSDI IHELARVPECNLQALD VDDRTPLHWA AAGKAECVQSLELGMDSNLRDINEST  
PLAYALYCGHTACVKLLSQESRTEPTRPPPSQSSRPQKKERRFNVLNQIFCKNKKEEQRA  
HQKDPSRDRYREEDTSEVNDI IITFDSIVGTNCQE QPGDQVAMVEFKKTS DNSKYLLPE  
KKPLARKGLPPIRTQSLPPIITLGNFLTASHRATSHAGLSSAPHHMAQRSQKSRSEQDLL  
NNRTGCQMLLDNPWKSDSNQVFSYKVWTVSSDKLLDRLLSVRPGHQEVSVPPHLRHLHN  
PSSGQNFQHLSPNRHKIRDLPFTRNNLAPLPDQKFLSGEPLRTNRVLP AIPSQRRHSTAA  
EESEHSANPTSDEN

>sp|P58335|ANTR2\_HUMAN Anthrax toxin receptor 2 OS=Homo sapiens GN=ANTXR2 PE=1 SV=5

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EIYNFVQQLAERFVSPEMRLSFIVFSSQATIIILPLTGDRGKISKGLEDLKRVSPVGETYI  
HEGLKLANEQIQAGGLKTSSIIIALTDGKLDGLVPSYAEKEAKISRSLGASVYCVGVLD  
FEQAQLERIADSKEQVPVKGGFQALKGIINSILAQSCTEILELQPSSVCVGEEFQIVLS  
GRGFM LGS RNSVLC TYTVNETYTTSVKPVSVQLNSMLCPAPILNKAGETLDVSVSFNGG  
KSVISGSLIVTATECSNGIAAIIIVILVLLLLGIGLMWWFWPLCCKVVIKDP PPPPAPAP  
KEEEEEPLPTKKWPTVDASYYGGRGVGGIKRMEVRWGDKGSTE EGARLEKAKNAVVKIPE  
ETE EPIRPPRPKPTHQPPQTKWYTPIKGRLDALWALLRRQYDRVSLMRPQEGDEVCIW  
ECIEKELTA

>sp|P61966|AP1S1\_HUMAN AP-1 complex subunit sigma-1A OS=Homo sapiens GN=AP1S1 PE=1 SV=1

MMRFMLLSRQGKLR LQKWLATSDKERKKMVRELQVVLARKPKMCSFLEWRDLKVYK  
RYASLYFCCAIEGQDNELITL ELI HRYVELLDKYFGSVCELDIIFNFEKAYFILDEF LMG  
GDVQDTSKKSVLKAIEQADLLQEEDESPRSVLEEMGLA

>sp|O00203|AP3B1\_HUMAN AP-3 complex subunit beta-1 OS=Homo sapiens GN=AP3B1 PE=1 SV=3

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DAMKRIVGMIAKGKNASELFP AVVKNVASKNIEIKKL VVYLVRYAEEQQDLALLSISTF  
QRALKDPNQLIRASALRVLSSIRVPIIVPIMMLAIKEASADLSPYVRKNAAHAIQKLYSL  
DPEQKEMLIEVIEKLLKDKSTLVAGSVVMAFEEVCPDRIDL I HKNYRKLCNLLVDVEEWG  
QVVI I HMLTRYARTQFVSPWKEGDELEDNGKNFYESDDDQKEKTDK KKKPYTMDPDHRL  
LRNTKPLLQSRNAAVVMAVQLYWHISP KSEAGIISKSLVRLLSNREVQYIVLQNIATM  
SIQRKGMFEPYLSFYVRSTDP TMIKTLKLEILTNLANEANISTLLREFQTYVKSQDKQF  
AAATIQTIGRCATNILEVTDTCNLGLVCLLSNRDEIVVAESVVV IKKLLQMQPAQHGEII  
KHMAKLLDSITVPVARASILWLIGENCERVPKIAPDVL RKMKSFTSEDDL VKLQILNLG  
AKLYLTNSKQTKLLTQYILNLGKYDQNYDIRDRTRFIRQLIVPNVKS GALSKYAKKIFLA  
QKPAPLLESPFKDRDHFQLGTL SHTLNIKATGYLELSNWPEVAPDPSVRNVEVIELAKEW  
TPAGKAKQENS AKKFYSESEEEEDSSDSSDSESESGSESGEGESGEEGDSNEDSSEDS  
SSEQDSESGRESGLENKRTAKRNSKAKGKSDSE DGEKENEKSKTSDSSNDESSSIEDSSS  
DSESESEPESESESRRVTKEKEKKTKQDRTP LTKDVSLDLDDFNPVSTPVALPTPALSP

SLMADLEGLHLSTSSSVISVSTPAFVPTKTHVLLHRMSGKGLAAHYFFPRQPCIFGDKMV  
SIQITLNNTTDRKIENIHIGEKKLPiGMKMHVFNPIDSLPEGSITVSMGIDFCDSTQTA  
SFQLCTKDDCFNVNIQPPVGELLPLVAMSEKDFKKEQGVLTGMNETSAVIAAPQNFTPS  
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>sp|Q9Y2T2|AP3M1\_HUMAN AP-3 complex subunit mu-1 OS=Homo sapiens GN=AP3M1 PE=1 SV=1  
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RDKLFFVSVIQTEVPPLFVIEFLHRVADTFQDYFGECSEAAIKDNVVIYELLEEMLDNG  
FPLATESNILKELIKPPTILRSVNSITGSSNVGDTLPTGQLSNIPWRRAGVKYTNNEAY  
FDVVEEIDAIIDKSGSTVFAEIQGVIDACIKLSGMPDLSLSFMNPRLLDDVSFHPICIRFK  
RWESERVLSFIPPDGNFRLISYRVSSQNLVAIPVYVKHSISFKENSSCGRFDITIGPKQN  
MGKTI EGITVTVMHPKVVLNMNLTPQG SYTFDPVTKVLTWDVGKITPQKLP SLKGLVNL  
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>sp|Q92572|AP3S1\_HUMAN AP-3 complex subunit sigma-1 OS=Homo sapiens GN=AP3S1 PE=1 SV=1  
MIKAILIFNNHGKPRLSKFYQPYSED TQQQI IRET FHLVSKRDENV CNFLEGG LLIGSD  
NKL IYRHYATLYFVFCVDSSESELGILD LIQVFVETLDKCFENVCELDLIFHVDKVHNIL  
AEMVMGGMVLETNMNEIVTQIDAQNKLEKSEAGLAGAPARAVSAVKNMNLPEIPRNINIG  
DISIKVPNLPSFK

>sp|P59780|AP3S2\_HUMAN AP-3 complex subunit sigma-2 OS=Homo sapiens GN=AP3S2 PE=2 SV=1  
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YKL IYRHYATLYFVFCVDSSESELGILD LIQVFVETLDKCFENVCELDLIFHMDKVHYIL  
QEVVMGGMVLETNMNEIVAQIEAQRLEKSEGLSAAPARAVSAVKNINLPEIPRNINIG  
DLNIKVPNLSQFV

>sp|Q2VPB7|AP5B1\_HUMAN AP-5 complex subunit beta-1 OS=Homo sapiens GN=AP5B1 PE=1 SV=4  
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PAQLWPDASAAEVAATSLDLTLVLLPPRPSALRRPLLLAATTALAAGGALGPTSGASCRL  
LPLLLGLAAGSDLGRGFVPASEQRPLQATACECLRELESCKPGLLGGSLGLLRGLLGQEG  
PVQPLSLLALALRNTLVLQSRVGAGLGGLLTDKVSPTGGGPWDWTLVEEGDGRLPQPAP  
SWPAAEEGEGERSLTAREHSPEEARELRAAVIQLLDTSYLLTPVAQAQLLWLLGWALRGL  
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TVLTPLIHGLAQLYQARPM LAPHFVDLLDQVDSSELREPLKVVL RQVVVSRPGRDEALCWH  
LQMLAKVADGDAQSATLNF LQAAAAHCTNWDLQQGLLRVC RALLRAGVRGGLVDLLQVLA  
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ARPLLLPLQPRCPAPARLDVHALYTTSTGLTCHAHLPPLFVNFADLFLFPQPPEGAGLG  
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>sp|Q9P2R3|ANFY1\_HUMAN Rabankyrin-5 OS=Homo sapiens GN=ANKFY1 PE=1 SV=2  
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IYTDELEFREDDVFLTELMKANRFQLQLLRERCEKGVMSLVNVRNCIRFYQTAEELNAS  
TLMNYCAEIIASHWDDL RKEDFSSMSAQLLYKMIKSKTEYPLHKA I KVEREDVVFVLYLIE



MDSQLPGKLEADHNGDLALDLALSRRLES IATTLVSHKADVDMVDKSGWSLLHKG IQRG  
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NMQDSKGRTPLVHSIMAGNEYVFSQLLQCKQLDLELKDHEGSTALWLAVQHITVSSDQSV  
NPFEDVPVNGTSFDENSFAARLIQRGSHTDAPDTATGNCLLQRAAGAGNEAAALFLATN  
GAHVNHNRNKWGETPLHTACRHGLANLTAELLQQGANPNLQTEEALPLPKEAASLTSLADS  
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LAIRNQLPLVVDICTRGADMSVPDEKGNPPLWLALANNLEDIASTLVRHGCDATCWGPG  
PGGCLQTLHRAIDENNEPTACFLIRSGCDVNSPRQPGANGEGEEDGQTPLHLAASW  
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FACAMTFKNNKSAEAILKRESGAAEQVDNKGRLHVAVQNSDIESVLF LISVHANVNSR  
VQDASKLTPLHLAVQAGSEIIVRNLLLAGAKVNELTKHRQTALHLAAQQDLPTICSVLLE  
NGVDFAAVDENGNNALHLAVMHGRLNNIRVLLTECTVDAEAFNLRGQSPLHILGGYGKEN  
AAAFDLFLECMGPYPLDKPDADGSTVLLLAYMKGNANLCRAIVRSGARLGVNNNQGVNI  
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EIP I IKFDLNKPVRVCNICFDVLTGGVS

>sp|P03950|ANGI\_HUMAN Angiogenin OS=Homo sapiens GN=ANG PE=1 SV=1  
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SPCKDINTFIHGNKRSIKAICENKGNPHRENLRISKSSFQVTTCKLHGGSPWPPCQYRA  
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>sp|Q8NI99|ANGL6\_HUMAN Angiopoietin-related protein 6 OS=Homo sapiens GN=ANGPTL6 PE=1  
SV=1

MKG PWLRALQLLLLLGASWARAGAPRCTYTFVLPPQKFTGAVCWSGPASTRATPEAANAS  
ELAALRMVRGRHEELRELQRLAAADGAVAGEVRALRKESRGLSARLGQLRAQLQHEAGP  
GAGPGADLGAEPAAALALLGERVLNASAEARAAARFHLQDVKFRELAQLVTQQSSLIAR  
LERLCPPGAGGQQQLVPPPPLVPVVPVRLVGSTSDTSRMLDPAPEPQRDQTRQQEPMAS  
PMPAGHPAVPTKVPVGPWQDCAEARQAGHEQSGVYELRVGRHVSVWCEQQLEGGGWTVIQ  
RRQDGSVNFFTQWQHYKAGFGRPDGEYWLGLEPVYQLTSRGDHELLVLEDWGGRGARAH  
YDGFSLPESDHYRLRLGQYHGDAGDSLWHNDKPFSTVDRDRDSYSGNCALYQRGGWWY  
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>sp|Q9NQ90|ANO2\_HUMAN Anoctamin-2 OS=Homo sapiens GN=ANO2 PE=1 SV=2

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HSLAIVSNGETGKEPHAGGPGDIELGPLDALEEERKEQREEFEHNLMEAGLELEKDLENK  
SQGSIFVRIHAPWQVLAREAEFLKIKVPTKKEMYEIKAGGSI AKKFSAALQKLSSHLQPR  
VPEHSNNKMKNLSYPFSREKMYLYNIQEKDTFFDNATRSRIVHEILKRTACSRANNTMGI  
NSLIANNIYEAAYPLHDGEYD SPEDDMNDRKLLYQEWARYGVFYKFPIDLIRKYFGEKI  
GLYFAWLGLYTSFLIPSSVIGVIVFLYGCATIEEDIPSREMCDQQNAFTMCPLCDKSCDY  
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RAQEHSRPEYETKVREKMLKESNQSAVQKLENTTECGDEDEDKLTWKDRFPGYLMNFA  
SILFMIALTFSIVFGVIVYRITTAALSLNKATRSNVRVTATAVIINLVVILILDEIY  
GAVAKWLTKIEVPKTEQTFEERLILKAFLKFNAYSPIFYVAFFKGRFVGRPGSYVYVF  
DGYRMEECAPGGCLMELCIQLSIIMLGKQLIQNNIFEIGVPKLKKLFRKLKDETEAGETD  
SAHSKHPEQWDLDSLEPYTGLTPEYMEMIIQFGFVTLFVASFPLAPVFALLNNVIEVRL

DAKKFVTELRRPDAVRTKDIGIWFIDILSGIGKFSVISNAFVIAITSDFIPRLVYQYSYSH  
NGTLHGFVNHTLSFFNVSQLEGTQPENSQFDQEVQFCRFKDYREPPWAPNPYEFSKQYW  
FILSARLAFVII FQNLVMSLVLDWMIPDIPTDISDQIKKEKSLVDFFLKEEHEKLKL  
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>sp|Q9BYT9|ANO3\_HUMAN Anoctamin-3 OS=Homo sapiens GN=ANO3 PE=1 SV=2

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YDRSRLINDFVIKDKSEFKTKLSKNDMNYIASSGPLFKDGKKRIDYILVYRKTNIQYDKR  
NTFEKNLRAEGLMLEKEPAIASPDIMFIKIHIPWDTLCKYAERLNIRMPFRKKCYTDGR  
SKSMGRMQTYFRRIKNWMAQNPMLDKSAFPDLEESDCYTGPFSSRARIHHFIINNKTFF  
SNATRSRIVYHMLERTKYENGISKVGIRKLINNGSYIAAFPHEGAYKSSQPIKTHGPQN  
NRHLLYERWARWGMWYKHQPLDLIRLYFGEKIGLYFAWLGWYTGMIPAAIVGLCVFFYG  
LFTMNSQVSQEICKATEVFMCPCLCDKNCSLQRLNDSCIYAKVTYLFNDGGTVFFAIFMA  
IWATVFLEFWKRRRSILTYTWDLIEWEEEEETLRPFQFEAKYYKMEIVNPITGKPEPHQPS  
SDKVTRLLVSVSGIFFMISLVITAVFGVVVYRLVVMQFASFKNFIKQYWQFATSAAAV  
CINFIIIMLLNLAYEKIAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFL  
GRFVGHPGKYNKLFRWRLEECHPSGCLIDLCLQMGVIMFLKQIWNFMELGYPLIQNWW  
SRHKIKRGIHDASIPQWENDWNLQPMNLHGLMDEYLEMVLQFGFTTIFVAAFPLAPLLAL  
LNNIEIRLDAYKFVTQWRRPLPARATDIGIWLGILEGIGILAVITNAFVIAITSYIPR  
FVYEYKYGPCANHVEPSENCLKGYVNNLSFFDLSELGMGKSGYCRYRDYRGPPWSSKPY  
EFTLQYWHILAAFLAFIIVFEHLVFGIKSFIAYLIPDVPKGLHDIRREKYLQEMMYEA  
ELEHLQQRRKSGQPVHHEWP

>sp|A1A5B4|ANO9\_HUMAN Anoctamin-9 OS=Homo sapiens GN=ANO9 PE=2 SV=3

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RRKGFHIKVIDRQKQVFFGIRADNSVFLYRTLLLEPEGPAPHAELAAPTTIPVTTSLRI  
RIVNFVMMNNKTSAGETFEDLMKDGVFEARFPLHKGEGRLLKKTWARWRHMFREQPVDEIR  
NYFGEKVALYFVWLGWYTYMLVPAALTGLLVFLSGFSLFEASQISKEICEAHDILMCPLG  
DHSRRYQRLSETCTFAKLTHLFDNDGTVVFAIFMALWATVFLEIWKRRQARVVLHWDLYV  
WDEEQEEMALQLINCPDYKLRPYQHSYLRSTVILVLTLLMICLMIGMAHVLVYRVLASA  
LFSSSAVPFLEEQTAVVVTGALVHYVTIIIMTKINRCVALKLCDFEMPRTFSERESRF  
TIRFFTQFFTHFSSLIYIAFILGRINGHPGKSTRLAGLWKLEECHASGCMMDLFVQMAI  
IMGLKQTLNSCVEYLVVWTHKCRSLRASESGHLPRDPELRDWRNRYLLNPVNTFSLFDE  
FMEMMIQYGFTTIFVAAFPLAPLLALFSNLVEIRLDAIKMVWLQRRLVPRKAKDIGTWLQ  
VLETIGVLAVIANGMVIAFTSEFIPRVVYKYRYSPCLKEGNSTVDCLKGYVNHSLSVFHT  
KDFQDPDGIEGSENVTLCRYRDYRNPPDYNFSEQFWLLAIRLAFVILFEHVALCIKLIA  
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DV

>sp|Q6UB99|ANR11\_HUMAN Ankyrin repeat domain-containing protein 11 OS=Homo sapiens  
GN=ANKRD11 PE=1 SV=3

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PFTAGANGEQKDSDETEKQGPERRIKKEPVTRKAGLLFGMGLSGIRAGYPLSERQQVALL  
MQMTAEESANSPVDTPKHPSQSTVCQKGTNPASASKTKDKVNRNERGETRLHRAAIRGD  
ARRIKELISEGADVNVKDFAGWTALHEACNRGYDVAQQLLAAGAEVNTKGLDDDTPLHD  
AANNHYKVVKLLRLRYGGNPQQSNRKGETPLKVANSPTMVNLLLKGTYTSSEESSTESS

EEEDAPSFAPSSSDGNNTDSEFEKGLKHKAKNPEPQKATAPVKDEYEFDEDEQDRVPP  
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GTGEKLRLSAHTILPGSKTREPSNAKQQKEKNKVKKRKKETKGREVRFGKRSDKFCSSSE  
SESESESSEDDRDSLGSGLKGSPLVLKDP SLFSSLSASSTSSHGSSAAQKQNPSTHD  
QHTKHWRTDNWKTISSPAWSEVSSLSDSTRTRLTSESDYSSEGSSVESLKPVRKRQEHRK  
RASLSEKKSPFLSSAEGAVPKLDKEGKVVKHKHTKHKHKNKEKGQCSISQELKLKSFTYE  
YEDSKQKSDKAILLENDLSTENKLKVLKHDRDHFKEEKL SKMKLEEKWLFKDEKSLKR  
IKDTNKDISRSFREEKDRSNKAEEKERSLKEKSPKEEKLRLYKEERKKKSKDRPSKLEKKN  
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RRDGRAKPEEAHREELKECGCESGFKDKSDGDFGKLEPWERHHPAREKEKKDGPDKERK  
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DKEHSKERKSSRSADA EKS LLEKLEEEALHEYREDSNDKISEVSSDSFTDRGQEPGLTAF  
LEVSFTEPPGDDKPRESA CLPEKLKEKERHRHSSSSSKKSHDRERAKKEKA EKKEGEDY  
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KVDALHCPPAAVVTVTPSPEGVFSS LQAKPSPSPRAELLVPSLEGALPPDLTSEDQQAT  
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SFLDGSRGLSHLQGVPEVPWADAFAGPEDDL D LGPFSLP ELP LQTKDAADGEAEPVEESL  
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NTSTQQTREVIQQT LA AIVDAIKLDAIEPYHSDRANPYFEYLQIRKKIEEKRKILCCITP  
QAPQCYAEYV TYTGSYLLDGKPLSKLHIPV IAPPPSLAEPLKELFRQQEAVRGKLR LQHS  
IEREKLIVSCEQEILRVHCRAARTIANQAVPFSACTMLLDSEVYNMPLESQGDENKSVRD  
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>sp|Q6UB98|ANR12\_HUMAN Ankyrin repeat domain-containing protein 12 OS=Homo sapiens  
GN=ANKRD12 PE=1 SV=3

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KREVP LSDDDES YTDSEE AQSVNPSSVDENIDSETEKDSLICESKQILPSKTPLPSALDE  
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VLYSSTESSDEEALQNNKISTSCSVIPETSNSDMQTKKEYVVS GEHKQKGKVKRKLKNQN  
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EKSREKMDRKHDKEKPEKERHLAESKEKHLMEKKNQSDNSEYSKSEKGKNEKDRELDK  
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RELDLADLPERIKPPYANRLSTSHLRSSSVEDVKLI ISEGRPTIEVRRCSMP SVICEHT  
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DAESISKHMSLSYVANQEPGILQKNAVQIISSALD TDNESTKDTENTFVLGDVQKTD AF  
VPVYSDSTIQEASPNFEKAYTLPVLPSEKDFNGSDASTQLNTHYAFSKLTYKSSSGHEVE  
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>sp|Q5TZF3|ANR45\_HUMAN Ankyrin repeat domain-containing protein 45 OS=Homo sapiens  
GN=ANKRD45 PE=1 SV=1

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TGDVEGLQKIFEDPENPHHEQAMQLLLEEDIVGRNLLYAACMAGQSDVIRALAKYGVNLN  
EKTTRGYTLLHCAAAGRLET LKALVELDVIDEALNFR EERARDVAARYSQTECV EFLDW  
ADARLTLKKYIAKVS LAVTDT EKGSGKLLKEDKNTILSACRAKNEWLETHTEASINELFE  
QRQQLEDIVTPIFTKMTTPCQVKS AKSVTSHDQKRSQDDTSN

>sp|Q8WVL7|ANR49\_HUMAN Ankyrin repeat domain-containing protein 49 OS=Homo sapiens  
GN=ANKRD49 PE=1 SV=1

MEKEKGNDGIPDQENSLDFSEHFNQLELLETHGHLIPTGTQSLWVGNSDEDEEQDDKNE  
EWYRLQEKKMEKDPSRLLLWAAEKNRLTTVRRLLEKATHVNTRDEDEYTPLHRAAYSGH

LDIVQELIAQGADVHAVTVDGWTPHLSACKWNNTRVASFLLQHDADINAQTKGLLTPLHL  
AAGNRDSKDTLELLLMNRYVKPGLKNNLEETAFDIARRTSIYHYLFEIVEGCTNSSPQS

>sp|Q9BZ19|ANKR60\_HUMAN Ankyrin repeat domain-containing protein 60 OS=Homo sapiens  
GN=ANKRD60 PE=3 SV=3

MTRGRAWGMRAAAGAGGARAAGPTGGASRLHPNAGRRSGARAGAQCAGGPRVGSADSRA  
LPAQPLACARGRSQRLVCDPKAASALPDLPDVFLRVLRLEETGEMFRVANCRGDMTVRE  
LKEELDLMVGIPFNLQRLQYLDEGVLMDDTTLKFHDVVPGGIISLCIWHHDGWTELVLAA  
VEGDPSKLSCLGLTEDSFYRTANSEHFEGEKWKHWTSQRAFVALYVASHRGHFDVQYLL  
EHGASCLSRSPGLRTPHVAAMGRSDCIILLQHGASIHDRDAKGETPISIAHRLNHTL  
SERQMVLHRIAKSGIRDLNDLVMKNALQRVKSGFRSEKMTMTPH

>sp|Q9H9E1|ANRA2\_HUMAN Ankyrin repeat family A protein 2 OS=Homo sapiens GN=ANKRA2 PE=1  
SV=1

MDTSTNLDIGAQLIVEECPSTYSLTGMPDIKIEHPLDPNSEECSAQGVAMGMKFILPNRF  
DMNVCSRFBVKSLEEDSKNIQDQVNSDLEVASVLFKAECNIHTSPSPGIQVRHVYTPSTT  
KHFSPKQSTTLTNKHRGNEVSTPLANSLSVHQLAAQGEMLYLATRIEQENVINHTDE  
EGFTPLMWAAAHGQIAVVEFLLQNGADPQLLGKGRESALSLACSKGYTDIVKMLDCGVD  
VNEYDWNNGTPLLAVHGNHVKCVKMLESADPTIETDSGYNSMDLAVALGYRSVQQVI  
ESHLLKLLQNIKE

>sp|P07355|ANXA2\_HUMAN Annexin A2 OS=Homo sapiens GN=ANXA2 PE=1 SV=2

MSTVHEILCKLSLEGDHSTPPSAYGSVKAYTNFDAERDALNIETAIKTKGVDEVTIVNIL  
TNRSNAQRQDIAFAYQRRTKKELASALKSALSGHLETVILGLLKTPAQYDASELKASKMG  
LGTDEDSLIEIICSRTNQELQEIINRVYKEMYKTDLEKDIISDTSGDFRKLMLVALAKGRR  
EDGSVIDYELIDQDARDLYDAGVKKRGTDPKWKISIMTERSVPHLQKVFDYKSYSPYDM  
LESIRKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKGKGTDRKVLIRIMVSRSEVDM  
LKIRSEFKRKYGKSLYYYIQDQTKGDYQKALLYLCGGDD

>sp|P09525|ANXA4\_HUMAN Annexin A4 OS=Homo sapiens GN=ANXA4 PE=1 SV=4

MATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLAYRNTAQRQEIRTAYKSTI  
GRDLIDDLKSELSGNFEQVIVGMMTPTVLYDVQELRRAMKGAGTDEGCLIEILASRTPEE  
IRRISQTYQQQYGRSLEDDIRSDFSFMFQRVLVSLSAGGRDEGNYLDDALVRQDAQDLYE  
AGEKKWGTDEVKFLTVLCSRNRNHLHVFDEYKRISQKDIEQSIKSETSGSFEDALLAIV  
KCMRNKSAYFAEKLYKSMKGLGTDNTLIRVMVSRAEIDMLDIRAHFKRLYGKSLYSFIK  
GDTSGDYRKVLLVLCGGDD

>sp|P13928|ANXA8\_HUMAN Annexin A8 OS=Homo sapiens GN=ANXA8 PE=1 SV=3

MAWWKSWIEQEGVTVKSSSHFNPDPAETLYKAMKGIGTNEQAIIDVLTKRSNTQRQQIA  
KSFKAQFGKDLTETLKSELSGKFERLIVALMYPPYRYEAKELHDAMKGLGTKEGVIIIEIL  
ASRTKNQLREIMKAYEEDYGSSLEEDIQADTSGYLERILVCLLQGSRDDVSSFVDPGLAL  
QDAQDLYAAGEKIRGTDEMKFITILCTRSATHLLRVFEEYEKIANKSIEDSIKSETHGSL  
EEAMLTVVKCTQNLHSYFAERLYAMKGAGTRDGTILRNIVSRSEIDLNLKCHFKKMYG  
KTLSSMIMEDTSGDYKNALLSLVGSDP

>sp|P21397|AOFA\_HUMAN Amine oxidase [flavin-containing] A OS=Homo sapiens GN=MAOA PE=1  
SV=1

MENQEKASIAGHMFVVVIGGGISGLSAAKLLTEYGVSVLVLEARDRVGGRTYTIRNEHV  
DYVDVGAYVGPTQNRILRLSKELGIETYKVNVSERLVQYVKGKTYPRGAFPPVWNPIA  
YLDYNNLWRTIDNMKEIPTDAPWEAQHADKWDKMTMKELIDKICWTKTARRFAYLFVNI

NVTSEPHEVSALWFLWYVKQCGGTTRIFSVTNGGQERKFVGGSGQVSERIMDLLGDQVKL  
NHPVTHVDQSSDNII IETLNHEHYECKYVINAIPPTLTAKIHFPELPAERNQLIQRLPM  
GAVIKMMYYKEAFWKKKDYCGCMII EDEDAPISITLDDTKPDGSLPAIMGFILARKADR  
LAKLHKEIRKKKICELYAKVLGSQEALHPVHYEKNWCCEEQYSGGCYTAYFPPGIMTQYG  
RVIRQPVGRIFAGTETATKWSGYMEGAVEAGERAAREVLNGLGKVTEKDIWVQEPESKD  
VPAVEITHTFWERNLPSVSGLLKIIGFSTSVTALGFVLYKYKLLPRS

>sp|P27338|AOFB\_HUMAN Amine oxidase [flavin-containing] B OS=Homo sapiens GN=MAOB PE=1 SV=3

MSNKCDVVVVGGISGMAAAKLLHDSGLNVVLEARDRVGGRTYTLRNQKVKYVDLGGSY  
VGPTQNRILRLAKELGLETYKVNVERLIHHVKGKSYFPRGPFPPVWNPITYLDHNNFWR  
TMDDMGREIPSDAPWKAPLAEEDNMTMKELLDKLCWTESAKQLATLFVNL CVTAETHEV  
SALWFLWYVKQCGGTTRII STTNGGQERKFVGGSGQVSERIMDLLGDRVKLERPVIYIDQ  
TRENVLVETLNHEMYEAKYVISAIPPTLGMKIHFNPLPMRNQMITRVPLGSVIKCIVY  
YKEPFWRKKDYCGTMIIDGEEAPVAYTLDDTKPEGNYAAIMGFILAHKARKLARLTKEER  
LKKLCELYAKVLGSLEALEPVHYEKNWCCEEQYSGGCYTTFPPGILTQYGRVLRQPVD  
IYFAGTETATHWSGYMEGAVEAGERAAREILHAMGKIPEDIWQSEPEVDVPAQPI TTT  
FLERHLPSVPGLRLIGLTTIFSATALGFLAHKRGLLVRV

>sp|Q9Y6Q5|AP1M2\_HUMAN AP-1 complex subunit mu-2 OS=Homo sapiens GN=AP1M2 PE=1 SV=4

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWI  
KHSNLYLVATTSKNANASLVSYFLYKTIEVFCEYFKELEESIRDNFVIVYELLDLMDF  
GFPQTDSKILQEYITQQSNKLETGKSRVPPTVTNAVSWRSEGIKYKKNEVFIDVIESVN  
LLVNANGSVLLSEIVGTIKLVFLSGMPELRLGLNDRVLFELTGRSKNKSVELEDVKFHQ  
CVRLSRFDNDRTISFIPPDGFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAQGQ  
FKKQSVANGVEISVPVPSDADSPRFKTSVGSAKYVPERNVVIWSIKSFPGGKEYLMRAHF  
GLPSVEKEEVEGRPPIGVKFEIPYFTVSGIQVRYMKII EKSGYQALPWRYITQSGDYQL  
RTS

>sp|P05549|AP2A\_HUMAN Transcription factor AP-2-alpha OS=Homo sapiens GN=TFAP2A PE=1 SV=1

MLWKLTDNIKYEDCEDRHDGTSNGTARLPQLGTVGQSPYTSAPPLSHTPNADFQPPYFPP  
PYQPIYPQSQDPYSHVNDPYSNLPLHAQPQPQHPGWPGQRQSQESGLLHTRGLPHQLSG  
LDPRRDYRRHEDLLHGPHALSSGLGDL SIHSLPHAIEEVPHVEDPGINIPDQTVIKKGPV  
SLSKSNSNAVSAIPINKDNLFGGVVNPNEVFCVPGRLSLLSSTSKYKVTVAEVQRRLSP  
PECLNASLLGGVLRRAKSKNGGRSLREKLDKIGLNL PAGRRKAANVTLLTSLVEGEAVHL  
ARDFGYVCETEFPKAVAEFLNRQHSDPNEQVTRKNMLLATKQICKFTDLLAQDRSPLG  
NSRPNPILEPGIQSCLTHFNLI SHGFGSPAVCAAVTALQNYL TEALKAMDKMYLSNNPNS  
HTDNNAKSSDKEEKHRK

>sp|Q92481|AP2B\_HUMAN Transcription factor AP-2-beta OS=Homo sapiens GN=TFAP2B PE=1 SV=2

MHSPPRDQAAIMLWKLVENVKYEDIYEDRHDGVPSSHRSLSQLGSVSQGPYSSAPPLSHT  
PSSDFQPPYFPPPYQPLPYHQSDPYSHVNDPYSNLPLHQPPQHPGWQRQRQEVGSEAGS  
LLPQPRAALPQLSGLDPRRDYHSVRRPDVLLHSAHGLDAGMGDSLHGLGHPGMEDVQ  
SVEDANNSGMNLDDQSVIKKVPVPPKSVTSLMMNKDGFLGMSVNTGEVFCVPGRLSLL  
SSTSKYKVTVEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLRERLEKIGLNL PAGRR  
KAANVTLLTSLVEGEAVHLARDFGYICETEFPKAVSEYLNQRHTDPSDLHSRKNMLLAT  
KQLCKEFTDLLAQDRTPIGNSRSPPILEPGIQSCLTHFSLITHGFGAPAICAALTALQNY  
LTEALKGMDKMFLNNTTTNRHTSGEGPGSKTGDKEEKHRK

>sp|Q9UJX3|APC7\_HUMAN Anaphase-promoting complex subunit 7 OS=Homo sapiens GN=ANAPC7 PE=1 SV=4

MDPGDAAITLESSLRILYRLFESVLPPLPAALQSRMNVIDHVRDMAAAGLHSNVRLSSLL  
LTMSNNPELFSPPQKYQLLVYHADSLFHDKEYRNAVSKYTMALQKKALKSTSKVRPST  
GNSASTPQSQCLPSEIEVKYKMAECYTMLKQDKDAIAILDGIPSRQRTPKINMMLANLYK  
KAGQERPSVTSYKEVLRQCPLALDAILGLLSLVKGAEVASMTMNVIQTVPNLDWLSVWI  
KAYAFVHTGDNRAISTICSLEKKSLLRDNDVLLGSLADLYFRAGDNKNSVLKFEQAQML  
DPYLKGMDDVYGYLLAREGRLEDVENLGCRLFNISDQHAEPWVVSCHSFYSKRYSRALY  
LGAKAIQLNSNSVQALLLKGAALRNMGVRQEAIHFREAIRLAPCRLCDYEGLECYLAS  
NSIREAMVMANNVYKTLGANAQTLTLLATVCLEDPVTQEKAKTLLDKALTQRPDYIKAVV  
KKAELLSREQKYEDGIALLRNALANQSDCVLHRILGDFLVAVNEYQEAMDQYSIALSLDP  
NDQKSLEGMQKMEKEESPTDATQEEDVDDMEGSGEEDLEGSDSEAAQWADQEQWFGMQ

>sp|Q9UBZ4|APEX2\_HUMAN DNA-(apurinic or apyrimidinic site) lyase 2 OS=Homo sapiens GN=APEX2 PE=1 SV=1

MLRVVSWNINGIRRLQGVANQEPSNCAAVAVGRILDELADIVCLQETKVTRDALTEPL  
AIVEGYNSYFSFSRNRSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCGNMDEFT  
QEELRALDSEGRALLTQHKIRTWEGKEKTLTLINVYCPHADPGRPERLVFKMRFYRLQI  
RAEALLAAGSHVILGLDNTAHRPIDHWDVNLECFEEDPGRKWMDSLLSNLGCQSASHV  
GPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLPEVM  
GSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHN  
NQTRVQTCQNKQVRSTRPQPSQVGSRRGQNLKSYFQPSPCQASPDIELPSLPLMSA  
LMPKTPPEEKAVAKVVKGAQKTSEAKDEKELRTSFWKSVLAGPLRTPLCGGHREPCVMRT  
VKKPGPNLGRRFYMCARPRGPPTDPSSRCNFFLWSRPS

>sp|A6NM10|AQ12B\_HUMAN Aquaporin-12B OS=Homo sapiens GN=AQP12B PE=2 SV=1

MAGLNVSLSFFFATFTLCEAARRASKALLPVGAYEVFAREAMRTLVELGPWAGDFGPDLL  
LTLLFLLFLAHGVTLDGASANPTVSLQEFLMAEESLPGTLLKLAQGLGMQAACTLTRLC  
WAWELSDLHLLQSLMAQSCSSALRTSVPHGALVEAACAFCFHLTLLHLRHSPPAYSGPAV  
ALLVTVTAYTAGPFTSAFFNPALAAASVTFACSGHTLLEYVQVYWLGPLTGMVLAVLLHQG  
RLPHLFQRNLFYQGKNKYRAPRGKPAPASGDTQTPAKGSSVREPRSGVEGPHSS

>sp|Q8NBQ7|AQP11\_HUMAN Aquaporin-11 OS=Homo sapiens GN=AQP11 PE=2 SV=1

MSPLLGLRSELQDTCSTLGLMLSVLLMGLARVVARQQLHRPVAHAFLVLEFLATFQLCCC  
THELQLLSEQHPAHTWTTLTVYFFSLVHGLTLVGTSSNPCGVMQMMLGGMSPETGAVR  
LLAQLVSALCSRYCTSAWLSGLTQYHVSERSFACKNP IRVDLLKAVITEAVCSFLFHS  
LLHFQEVRTKLRIHLLAALITFLVYAGGSLTGAVFNPALALSLHFMCFDEAFPQFFIVYW  
LAPSLGILLMILMFSFFLPWLHNNHTINKKE

>sp|P29972|AQP1\_HUMAN Aquaporin-1 OS=Homo sapiens GN=AQP1 PE=1 SV=3

MASEFKKKLFWRAVVAEFLATTLFVFISIGSALGFKYPVGNNQTAVQDNVKSALFGLSI  
ATLAQSVGHISGAHLNPAVTLGLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLT  
GNSLGRNDLADGVNSGQGLGIEIIGTLQLVLCVLATTDRLRRRDLGGSAPLAIGLSVALGH  
LLAIDYTGCGINPARSFGSAVITHNFSNHWIFWVGPFIGGALAVLIYDFILAPRSSDLTD  
RVKVTSGQVEEYDLADDDINSRVEMKPK

>sp|O14520|AQP7\_HUMAN Aquaporin-7 OS=Homo sapiens GN=AQP7 PE=1 SV=1

MVQASGHRRSTRGSKMVSWSVIAKIQEILQRKMVREFLAEFMSTYVMMVFLGSGVAHML  
NKKYGSYLGVLGFGFGVTMGVHVAGRISGAHMNAAVTFANCALGRVPWRKFPVYVLGQF

LGSFLAAATIYSLFYTAILHFSGGQLMVTGPVATAGIFATYLPDHMTLWRGFLNEAWLTG  
MLQLCLFAITDQENNPALPGTEALVIGILVVIIGVSLGMNTGYAINPSRDLPPRIFTFIA  
GWGKQVFSNGENWWWVPVAVPLLGAYLGGIIYLVFIGSTIPREPLKLEDSVAYEDHGITV  
LPKMGSHEPTISPLTPVSVSPANRSSVHPAPPLHESMALEHF

>sp|094778|AQP8\_HUMAN Aquaporin-8 OS=Homo sapiens GN=AQP8 PE=2 SV=2  
MSGEIAMCEPEFGNDKAREPSVGGRRVSWYERFVQPCLVELLGSALFIFIGCLSVIENG  
TDTGLLQPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLLPYWVSQLLG  
GMLGAALAKAVSPEERFWNASGAFFVTVQEQQVAGALVAEIIILTTLLALAVCMGAIN EK  
TKGPLAPFSIGFAVTV DILAGGPVSGGCMNPARAFGPAVVANHWNFWHIYWLGPLLAGLL  
VGLLIRCFIGDGKTRLILKAR

>sp|043315|AQP9\_HUMAN Aquaporin-9 OS=Homo sapiens GN=AQP9 PE=2 SV=2  
MQPEGAEEKGSFKQRLVLKSSLAKE TLSEFLGT FILIVLGC GCVAQA ILSRGRFGGVITI  
NVGFSMAVAMAIYVAGGVSGGHINPAVSLAMCLFGRMKWFKLPFYVGAQFLGAFVGAATV  
FGIYYDGLMSFAGGKLLIVGENATAHIFATYPAPYLSLANAFADQVVATMILLIIVFAIF  
DSRNLGAPRGLEPIAIGLLIIV IASSLGLNSGCAMNPARDLSPRLF TALAGWGFEVFRAG  
NNFWWIPVVGPLVGAVIGGLIYVLVIEIHHPEPDSVFKTEQSEDKPEKYELSVIM

>sp|Q5H913|AR13A\_HUMAN ADP-ribosylation factor-like protein 13A OS=Homo sapiens GN=ARL13A  
PE=2 SV=2

MFRLSSCCSCLRTTEETRRNVTIPIIGLNNSGKTVLVEAFQKLLPSKTDHCMKSELTTL  
LLDEYELSIYDLNGDLKGREAWPNYYAQAHGLVFVLDSSDIRRMQEVKIIILTHLLSDKRV  
AGKPILILANKQDKKALMPCDIIDYLLKKLVKENKCP RVEPCSAIRNLERNHQPIV  
EGLRWLLAVIDTCQLPPTSSISISKNTGSGERCSSHSFSTRTGMSKEKRQHLEQCSIEA  
KPLKSILQKEGTRLWSKKNM SVTFALDEPMKEGECSRRMRAQNTTKLCYN

>sp|P61204|ARF3\_HUMAN ADP-ribosylation factor 3 OS=Homo sapiens GN=ARF3 PE=1 SV=2  
MGNIFGNLLKSLIGKKEMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKN  
ISFTVWDVGGQDKIRPLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDEL RDAV  
LLVFANKQDLPNAMNAAEITDKLGLHSLRHRNWYIQATCATSGDGLYEGLDWLANQLKNK  
K

>sp|Q13795|ARFRP\_HUMAN ADP-ribosylation factor-related protein 1 OS=Homo sapiens  
GN=ARFRP1 PE=1 SV=1

MYTLLSGLYKYMFKDEYCILILGLDNAGKTTFLEQSKTRFNKNYKGMSLSKITTTVGLN  
IGTVDVGKARLMFWDLGGEELQSLWDKYAECHGVIYVIDSTDEERLAESKQAF EKVV T  
SEALCGVPVLVLANKQDVETCLSIPDIKTA FSDCTSKIGRRDCLTQACSALTGKGVREGI  
EWMVKCVVRNVHRPPRQRDIT

>sp|Q8N1W1|ARG28\_HUMAN Rho guanine nucleotide exchange factor 28 OS=Homo sapiens  
GN=ARHGEF28 PE=1 SV=3

MELSCSEAPLYGQMMIYAKFDKNVYLPEDAEFYFTYDGS HQRHVMIAERIEDNVLQSSVP  
GHGLQETVTVSVCLCSEGYSPVTMGSGSVTYVDNMACRLARLLVTQANRLTACSHQTLT  
PFALTAGALPALDEELVLALTHLELPLEWTVLGSSSLEVSSHRESLLHLAMRWGLAKLSQ  
FFLCLPGGVQALALPNEEGATPLDLALREGH SKLVEDVTNFQGRWSPSFSRVQLSEEASL  
HYIHSSETLTLNLHTAEHLLEADIKLFRKYFWDRAFLVKA FEPEARPEERTAMPSSGAE  
TEEEIKNSVSSRSAAEKEDIKRVKSLVVQHNEHEDQHSLDLDRSFDILKSKPPSTLLAA  
GRLSDMLNGGDEVYANCMVIDQVGDLDISYINIEGITATTSPE SRGCTLWPQSSKHTLPT  
ETSPSVYPLSENVEGTAHTEAQQSFMS PSSSCASNLSFGWHGFEKEQSHLKKRSSSLD



ALDADSEGEHSEPSHICYTPGSQSSSRTGIPSGDELDSFETNTEPDFNISRAESLPLSS  
NLQSKESLLSGVRSRSYSCSSPKISLGKTRLVRELTVCSSEEQRAYSLSEPPRENRIQE  
EEWDKYIIPAKSESEKYKVSRTFSFLMNRMTSPRNKSKTKSKDAKDEKLNHRHQFAPGTF  
SGVLQCLVCDKTLKGESLQCSNCNANVHKGCKDAAPACTKKFQEKYNKNKPQTILGNSS  
FRDIPQPGLSLHPSSSVVGLPTGRRETVGQVHPLSRVPGTTLESFRRSATSLESESDH  
NSCRSRSHSDELLQSMGSSPSTESFIMEDVVDSSLWSDLSSDAQEFAESWSLVDPSPFC  
NRQEKDVIKRQDVFELMQTEMHHIQTFLIMSEIFRKGMEELQLDHOSTVDKIFPCDEL  
LEIHRHFFYSMKERRQESCAGSDRNFIIDRIGDILVQQFSEENASKMKKIYGEFCCHHKE  
AVNLFKELQQNKKFQNFIKLRNSNLLARRRGIPPECILLVTQRITKYPVLVERILQYTKER  
TEEHKDLRKALCLIKDMIATVDLKVNEYEKNQKWLEILNKIENKTYTKLKNGHVFRKQAL  
MSEERTLLYDGLVYWKATATGRFKDILALLTDVLLFLQEKDQKYIFAAMDQKPSVISLQK  
LIAREVANEERGMLISASSAGPEMYEIHNTSKEERNNMRRRIQQAVESCPEEKGGRTSE  
SDEDKRKAEARVAKIQQCQEILTNDQDQICAYLEEKLHIYAELEGELSGFEDVHLEPHLLI  
KPDGPEPPQAASLLAAALKEAESLQVAVKASQMGAVSQSCEDSCGDSVLADTLSSHDPVG  
SPTASLVTGGREGRCSDVDPGIQGVVTDLAVSDAGEKVECRNFPQSSQSEIIQAIQNL  
RLLYSLQAALTIQDSHIEIHRVLVQQQEGSLGHSILRGGPLQDQKSRDADRQHEELANV  
HQLQHQLQQEQRRWLRRCEQQQRAQATRESWLQERERECQSQEELLLSRGELDLQLQEY  
QHSLERLREGQLVEREQARMRAQQSLLGHWKHGRQSLPAVLLPGGPEVMELNRSESLC  
HENSFFINEALVQMSFNTFNKLNPVSIHQDATYPTTQSHSDLVRTSEHQVDLKVDPSQPS  
NVSHKLWTAAGSGHQILPFHESKDKSCKNDLDSHTESPTPHDSNSHRPQLQAFITEAKL  
NLPTRTMTRQDGETGDGAKENIVYL

>sp|Q96CM8|ACSF2\_HUMAN Acyl-CoA synthetase family member 2, mitochondrial OS=Homo sapiens  
GN=ACSF2 PE=1 SV=2

MAVYVGMLRLGRLCAGSSGVLGARAALSRSWQEARLQGVRFSSREVDVMVSTPIGGLSY  
VQGCTKKHLNSKTVGQCLETTAQRVPEREALVVLHEDVRLTFAQLKEEVDKAASGLLSIG  
LCKGDRLGMWGPNSYAWVLMQLATAQAGIILVSVNPAYQAMELEYVLKKVGCKALVFPKQ  
FKTQQYYNVLKQICPEVENAQPGALKSQRLPDLTTVISVDAPLPGTLLLDEVVAAGSTRQ  
HLDQLQYNQQFLSCHDPINIQFTSGTTGSPKGATLSHYNIVNNSNILGERLKLHEKTPEQ  
LRMILPNPLYHCLGSVAGTMMCLMYGATLILASPIFNGKKALEAISRERGTFLYGTPTMF  
VDILNQPDFSSYDISTMCGGVIAGSPAPPELIRAIINKINMKDLVVAYGTTENSPVTFAH  
FPEDTVEQKAESVGRIMPHTEARIMNEAGTLAKLNTPGELCIRGYCVMLGYWGEPQKTE  
EAVDQDKWYWTGDVATMNEQGFCIKVGRSKDMIIRGGENIYPAELEDFFHHPKVQEVQV  
VGVKDDRMGEEICACIRLKDGEETTVEEIKAFCKGKISHFKIPKYIVFTNYPLTISGKI  
QKFKLREQMERHLNL

>sp|Q9UKU0|ACSL6\_HUMAN Long-chain-fatty-acid--CoA ligase 6 OS=Homo sapiens GN=ACSL6 PE=2  
SV=4

MQTQEILRILRLELGLDQGFRSLSATTLVSMGALAAILAYWFTHRPKALQPPCNLLMQ  
SEEVEDSGGARRSVIGSGPQLLTHYYDDARTMYQVFRRLSISGNGPCLGFRKPKQPYQW  
LSYQEVADRAEFLGSLQLQHNCACDQFIGVFAQNRPEWIIVELACYTYSMVVPLYDT  
LGPGAIRYIINTADISTVIVDKPQKAVLLLEHVERKETPGLKLIILMDPFEEALKERGQK  
CGVVIKSMQAVEDCGQENHQAQVPPQPDLSIVCFTSGTTGNPKGAMLTGNNVADFSGF  
LKVTEKVIIPRQDDVLISFLPLAHMFERVIQSVVYCHGGRVGFQGDIRLLSDDMKALCP  
TIFPVVPRLLNRMYSKIFSQANTPLKRWLLEFAAKRKQAEVRSGIIRNDSIWDELFFNKI  
QASLGGCVRMIVTGAAPASPTVLGFLRAALGCQVYEGYGGTTECTAGCTFTTPGDWTSGHV

GAPLPCNHIKLV DVEELNYWACKGEGEICVRGPNVFKGYLKDPDRTKEALDSDGWLHTGD  
IGKWLPA GTLKI ID RKKHIFKLAQGEYVAPEKIENIYIRSQPVAQIYVHGDSLKAFLVGI  
VVPDPEVMPSWAQKRGIEGTADLCTNKDLKKAILED MVR LKGESGLHSFEQVKAIHIHS  
DMFSVQNGLLTPTLKAKRPELREYFKKQIEELYSISM

>sp|Q08AH1|ACSM1\_HUMAN Acyl-coenzyme A synthetase ACSM1, mitochondrial OS=Homo sapiens  
GN=ACSM1 PE=1 SV=1

MQWLMRFRTLWGIHKSFNHNPAPSQ LRCRSLSEFGAPRWNDYEVPEEFNFASYVLDYWA  
QKEKEGKRGPNPAFWVWNGQDEVKWSFREMGDLTRRVANVFTQT CGLQQGDHLALMLPR  
VPEWWLVAVGCMRTGIIFIPATILLKAKDILYRLQLSKAKGIVTIDALASEVDSIASQCP  
SLKTKLLVSDHSREGWLD FRSLVKSASPEHTCVKSKTLDPMVIFFTSGTTGFPKMAKHS  
GLALQPSFPGSRKLRSLKTS DSVSWCLSDSGWIVATIWTLV EPWTAGCTVFIHHL PQFDTK  
VIIQTLLKYPINHFVGVSSIYR MILQQDFTSIRFPAL EHCYTGGEVVL PKDQEEWKRRTG  
LLLYENYGQSETGLICATYWGMIKPGFMGKATPPYDVQVIDDKGSILPPNTEGNIGIRI  
KPVRPVSLFMCYEGDPEKTAKVECGDFYNTGDRGKMDEEGYICFLGRSDDIINASGYRIG  
PAEVESALVEHPAVAESA VVGSPDPIRGEVVKAFIVLTPQFLSHDKDQLTKELQQHV KSV  
TAPYKYPRKVEFVSEL PKTITGKIERKELRKKETGQM

>sp|Q03154|ACY1\_HUMAN Aminoacylase-1 OS=Homo sapiens GN=ACY1 PE=1 SV=1

MTSKGP EEEHPSVTLFRQYLRI RTVQPKPDYGA AVAFFEETARQLGLGCQKVEVAPGYVV  
TVLTWPGTNPTLSSILLNSHTDVVPVFKEHWSHDPFEAFKDSEGYIYARGAQDMKCVSIQ  
YLEAVRRLKVEGHRFPRTIHMTFVPDEEVGGHQGMELFVQRPEFHALRAGFALDEGIANP  
TDAFTVFYSERSPPWVRVTSTGRPGHASRFMEDTAAEKLHKVNSILAFREKEWQRLQSN  
PHLKEGSVTSVNLTKLEGGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEG  
VTLEFAQKWMHPQVTP TDDSNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPAL  
GFSPMNRTPVLLHDHDERLHEAVFLRGVDIYTRLLPALASVPALPSDS

>sp|P78536|ADA17\_HUMAN Disintegrin and metalloproteinase domain-containing protein 17  
OS=Homo sapiens GN=ADAM17 PE=1 SV=1

MRQSLLFLT SVVPFVLAPRPDDPGFGPHQRLEKLSLSDYDILSLSNIQQHSVRKRDL  
QTSTHVETLLTFSALKRHF KLYLTSSTERFSQNFKV VVVDGKNESEYTVKWQDFFTGHV  
GEPDSRVLAHIRDDDVII RINTDGA EYNIEPLWRFVNDTKDKRMLVYKSEDIKNVSRLQS  
PKVCGYLKVDNEELLPKGLVDREPPEELVHRVKRRADPDPMKNTCKLLVVADHRFYRYMG  
RGEESTTTNYLIELIDRVDDIYRNTSWDNAGFKGYGIQIEQIRILKSPQEVKPGEKHYNM  
AKSYNNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTGLAYVGS PRANS  
HGGVCPKAYYSPVGKKNIYLN SGLTSTKNYKGTILTKEADLVTTHELGHNF GAEHDPDGL  
AECAPNEDQGGKYVMYPIAVSGDHENNKMF SNCSKQSIYKTIESKAQECFQERSNKVCGN  
SRVDEGEECDPGIMYLNNDTCCNSDCTLKEGVQCSDRNSPCCKNCQFETAQKKCQEAINA  
TCKGVS YCTGNSSECP PP GNAEDDTVCLDLGKCKDGKCI PFCEREQQLESCACNETD NSC  
KVCCRDLSGRGCVPYVDAEQNLFLRKGPCTVGFCDMNGKCEKRVQDVIERFWDFIDQLS  
INTFGKFLADNIVGSVLV FSLIFWIPFSILVHCVDK KLDKQYESLSLFHPSNV EMLSSMD  
SASVRI IKPFPAPQTPGRLQ PAPVIP SAPAAPKLDHQ RMDTIQEDPSTD SHMEDGFEKD  
PFPNSSTA AKSFEDLTDHPVTRSEKAASF KLRQNRVDSKETEC

>sp|P18825|ADA2C\_HUMAN Alpha-2C adrenergic receptor OS=Homo sapiens GN=ADRA2C PE=2 SV=2

MASPALAAALAVAAAAGPNASGAGERGSGGVANASGASWGPPRGYSAGAVAGLA AVVGF  
LIVFTVGVNLVVI AVLTSRALRAPQNLFLVSLASADILVATLVMPFSLANELMAYWYFG  
QVWCGVYLALDVL FCTSSIVHLCAISLD RYWSVTQAVEYNLKRTPRRVKATIVAVWLISA

VISFPPLVSLYRQPDGAAYPQCGLNDETWYILSSCIGSFFAPCLIMGLVYARIYRVAKLR  
TRTLSEKRAPVGPDGASPTTENGLGAAAGAGENGHCAPPPADVEPDESSAAAERRRRRGA  
LRRGRRRRAGAEGGAGGADGGAGPGAESGALTASRSPGPGRLSRASSRSVEFFLSRR  
RRARSSVCRRKVAQAREKRFTFVLAVVMGVFVLCWFPPFFFSYSLYIGICREACQVGPPLFK  
FFFWIGYCNSSLNPVIYTVFNQDFRRSFKHILFRRRRRGFRQ

>sp|Q99965|ADAM2\_HUMAN Disintegrin and metalloproteinase domain-containing protein 2  
OS=Homo sapiens GN=ADAM2 PE=2 SV=2

MWRVLFLLSGLGGLRMSNFDLSPVQITVPEKIRSIIEGIESQASYKIVIEGKPYTVNL  
MQKNFLPHNFRVYSYSGTGIMKPLDQDFQNFCHYQGYIEGYPKSVVMVSTCTGLRGLVQF  
ENVSYGIEPLESSVGFEHVIYQVKHKKADVSLYNEKDIESRDLDFKLQSVPEQQDFAKYI  
EMHVIVEKQLYNHMGSDTTVVAQKVFQLIGLTNAIFVSNITIISSLELWIDENKIATT  
GEANELHTFLRWKTSYLVLRPHDVAFLLVYREKSNYVGATFQGMCDANYAGGVVLHPR  
TISLES LAVILAQLLSLSMGITYDDINKCQCSGAVCIMNPEAIHFSGVKIFSNCSEDFFA  
HFISKQKSQCLHNQRLDPFFKQAVCGNAKLEAGEECDGTEQDCALIGETCCDIATCR  
FKAGSNCAEGPCCENCLFMSKERMCRPSFEEDLPEYCNCGSSASCENHYVQTGHPGCLN  
QWICIDGVCMSGDKQCTDTFGKEVEFGPSECYSHLNSKTDVSGNCGISDSGYTQCEADNL  
QCGKLICKYVGKFLQLIPRATIIYANISGHLCTAVEFASDHADSQKMWIKDGTSCGSNKV  
CRNQRCVSSSYLGYDCTTDKCNDRGVCNNKKHCHCSASYLPPDCSVQSDLWPGGSIDSGN  
FPPVAIPARLPERRYIENIYHSPMRWPFLLFIPFFIIFCVLIAIMVKVNFQRKKWRTE  
YSSDEQPESESEPKG

>sp|Q9UEY8|ADD3\_HUMAN Gamma-adducin OS=Homo sapiens GN=ADD3 PE=1 SV=1

MSSDASQGVITPPPPSPMPHKERYFDRINENDPEYIRERNMSPDLRQDFNMMEQRKRV  
TQILQSPAFREDLECLIQEQMKKGHNPTGLLALQQIADYIMANSFSGFSSPPLSLGMVTPIN  
DLPGADTSSYVKGKELTRCKLASLYRLVDLFGWAHLANTYISVRISKEQDHIIPRGLS  
FSEATASNLVKVNIIGEVVDQGSTNLKIDHTGFSPHAAIYSTRPDVKCVIHIHTLATAAV  
SSMKCGILPISQESLLLGDVAYDYQGSLEEQEERIQLQKVLGPCKVLVLRNHGVVALG  
ETLEEFHYIFNVQLACEIQVQALAGAGVDNLHVLDFQKYKAFTYVAASGGGVNMGS  
HQKWVGEIEFEGLMRTLNDLGYRTGYAYRHPLIREKPRHKSDEIPATVTAFSFEDDTV  
PLSPLKYMAQRQREKTRWLNPNNTYMKVNVPEESRNETSPRTKITWKAEDSSKVS  
GGTPIKIEDPNQFVPLNTPNEVLEKRNKIREQNRYDLKTAGPQSLLAGIVVDKPPSTM  
QFEDDDHGPPAPPNPFSHLTEGELEEYKRTIERKQQGLEDAEQELLSDDASSVSQIQS  
QTQSPQNVPKELENHELFSKSFISMEVPVMVNGKDDMHDEDELAKRVSRLSTSTT  
IENIEITIKSPEKIEEVLSPEGSPSKSPSKKKKKFRTPSFLKKNKKKEKVEA

>sp|P08588|ADRB1\_HUMAN Beta-1 adrenergic receptor OS=Homo sapiens GN=ADRB1 PE=1 SV=2

MGAGVLVLGASEPGLSSAAPLPDGAATAARLLVPASPPASLLPPASESPEPLSQW  
TAGMGLLMALIVLLIVAGNVLVIVAIKTPRLQTLTNLFIMSLASADLMGLLVV  
PFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIELTLCVIALDRYLATSPFRYQ  
SLLTRARARGLVCTVWAI  
SALVSFLPILMHWWRAESDEARRCYNDPKCCDFVTNRAYAIASSVVSFYVPLCIM  
AFVYLRVVFREAQKQVKIDSCERRFLGGPARPPSPSPVPAPAPPPGPPRPA  
AAAAATAPLANGRAGKRRPSRLVALREQALKTLGIIMGVFTLCWLPPFLANV  
VKAHRELVPDRLFVFFNWLG  
YANSFNPFIYCRSPDFRKAQRLCCARRAARRRHATHGDRPRASGCLARPGP  
PPSPGAASDDDDDDVVGATPPARLLEPWAGCNGGAAADSDSSLDEPCRPGFA  
SESKV

>sp|P13945|ADRB3\_HUMAN Beta-3 adrenergic receptor OS=Homo sapiens GN=ADRB3 PE=1 SV=3

MAPWPHENSSLAPWPDLPNTANTSGLPGPWEAALAGALLALAVLATVGGNLLVIV

AIAWTPRLQTMNTNVTSLAAADLVMGLLVPPAATLALTGHWPLGATGCELWTSVDVLC  
VTASIELCALAVDRYLAVTNPLRYGALVTKRCARTAVVLVWVVSAAVSFAPIMSQWWRV  
GADAEARCHSNPRCCAFASNMPYVLLSSSVSFYLPLLVMLFVYARVFVVATRQLRLLRG  
ELGRFPPEESPPAPSRSLAPVGTCAPEGVPACGRRPARLLPLREHRALCTLGLIMGT  
FTLCWLPPFFLANVLRALGGPSLVPGPAFLALNLGYANSFNPFIYCRSPDFRSAFRRLL  
CRCGRRLPPEPCAAARPALFPSGVPAARSSPAQPRLCQRLDGASWGV

>sp|Q16186|ADRM1\_HUMAN Proteasomal ubiquitin receptor ADRM1 OS=Homo sapiens GN=ADRM1 PE=1 SV=2

MTTSGALFPSLVPGSRGASNKYLVVEFRAGKMSLKGTTPDKRKGLVYIQQTDDSLIHFC  
WKDRSGNVEDDLIIFPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEH  
CRKVNEYLNPPMPGALGASGSSGHELSALGGEGGLQSLGNMSHSQMLQIGPAGLGGL  
GGLGALTGPGLASLLGSSGPPGSSSSSSRSQSAAVTPSSTTSSTRATPAPSAPAAASAT  
SPSPAPSSGNGASTAASPTQPIQLSDLQSIATMNPAGPAGGQQVDLASVLTPEIMAPI  
LANADVQERLLPYLPSPGESLPQTADIEIQTNTLTSPQFQQALGMFSAALASGQLGPLMCQFG  
LPAAVEAANKGDVEAFKAMQNAKPEQKEGDTDKKDEEEDMSLD

>sp|Q5I7T1|AG10B\_HUMAN Putative Dol-P-Glc:Glc (2) Man (9) GlcNAc (2)-PP-Dol alpha-1,2-  
glucosyltransferase OS=Homo sapiens GN=ALG10B PE=1 SV=2

MAQLEGYCFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGHFSLSQWDP  
MITTLPLGLYLVSVGVVPAIWIWIFAWSEHVCSIGMLRFVNLLFSVGNFYLLYLLFHKVQP  
RNKAASSIQRVLSTLTAVFPTLYFFNFLYTEAGSMFFTLFAYLMCLYGNHKTS AFLGF  
CGFMFRQNTIIWAVFCAGNVIAQKLTEAWKTELQKKEDRLPPKGPFAEFRKILQFLLAY  
SMSFKNLSMLFCLTWPYILLGFLFCFVNVNGGIVIGDRSSHEACLHFPQLFYFFSFTLF  
FSFPHLLSPSKIKTFLSLVWKGILFLVVTLSVFLVWKFTYAHKYLLADNRHYTFYVWK  
RVFQRYAILKYLLVPAYIFAGWSIADSLKSKPIFWNLMFFICLFIVIVPQKLEFRYFIL  
PYVIYRLNITLPPTSRLVCELSCYAIVNFITFYIFLNKTFQWPNSQDIQRFMW

>sp|Q99490|AGAP2\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
2 OS=Homo sapiens GN=AGAP2 PE=1 SV=2

MSRGAGALQRRTTYLISLTLVKLESVPPPPSPSAAVGAAGARGSEPRDPGSPRGAE  
PGKKRHERLFHRQDALWISTSSAGAGGAEPALSPAPASPARPVSPAPGRRLSLWAAPPG  
PPLSGGLSPDSKPGGAPSSRRPLSSPSWGGPEPEGRGTTGGGVPGSSSPHPTGSRRLKV  
APPPAPKPKCTVTTSAGAKAGGKGAGSRLSWPESEGKPRVKGSKSSAGTGASVSAATA  
AAAGGGSTASTSGVGAGAGARGKLSRKGKSKTLDNSDLHPGPPAGSPPLTLPTPS  
PATAVTAASAQPPGPAPPITLEPPAPGLKRGREGGRASTRDRKMLKFISGIFTKSTGGPP  
GSGPLPGPPSLSSGSGSRELLGAELRASPKAVINSQEWTLRSIPELRLGVLGDARSGKS  
SLIHRFLTGSYQVLEKTESEQYKKEMLVDGQTHLVLIREEAGAPDAKFSGWADAVIFVFS  
LEDENSFQAVSRLHGQLSSLRGEGRGGLALALVGTQDRISASSPRVVG DARARALCADMK  
RCSYYETCATYGLNDRVFEVAQKVVTLRKQQQLLAACKSLPSSPSHSAASTPVAGQAS  
NGHTSDYSSSLPSPNVGHRELRAEAAVAGLSTPGSLHRAAKRRTSLFANRRGSDSEK  
RSLDSRGETTGSGRAIPKQSFLLKRSGLNKEWKKKYVTLSSNGFLLYHPSINDYIHS  
THGEMDLLRTTVKVPGRPPRAISAFGPSASINGLVKDMSTVQMGEGLAATTPMPSPSP  
SPSSLQPPPDQTSKHLKPDRLARALSTDCTPSGDLSPLSREPPSPMVKKQRRKLT  
PSKTEGSAGQAEAKRMWKLKSFGLRNIIYKAEENFEFLIVSSTGQTHFEAASFEERDA  
WVQAIESQILASLQCESSKVKLRDTSQSEAVAIQAIRNAKGNSICVDCGAPNPTWASLN  
LGALICIECSGIHRNLGTHLSRVRSLDLDWPRELTLVLTAIGNDTANRVWESDTRGRAK

PSRDSSREERESWIRAKYEQLLFLAPLSTSEEPLGRQLWAAVQAQDVATVLLLLAHARHG  
PLDTSVEDPQLRSPLHLAAELAHVVITQLLLWYGADVAARDAQGRTALFYARQAGSQLCA  
DILLQHGCPEGGSAATTPSAATTPSITATPSPRRRSSAASVGRADAPVALV

>sp|A6NIR3|AGAP5\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
5 OS=Homo sapiens GN=AGAP5 PE=2 SV=2

MGNILTCVHPSVSLEFDQQQGSVCPSESEIYEAGAGDRMAGAPMAAAVQPAEVTVEVGE  
DLHMHHIRDQEMPEALEFSLSANPEASTIFQRNSQTDALFNPSANPEASTIFQRNSQTD  
VVEIRRSNCTNHVSTERFSQQYSSCSTIFLDDSTASQHYLTMTIISVTLEIPHHITQRDA  
DRSLSPDEQLHSFAVSTVHITKNRNGGSLNNYSSSIPSTPSTSQEDPQFSVPPTANTP  
TPVCKRSMRWSNLFTSEKGSHPDKERKAPENHADTIGSGRAIPIKQGMLLKRSKGWLKTW  
KKKYVTLCNSGVLTYSSLDGYMKNHKKKEIDLRTSTIKVPGKWPSLATSACAPISSSKS  
NGLSKMDMTGLGDSICFSPSISSTTSPKLNPPPSPHANKKKHLKKKSTNNFMIVSATGQT  
WHFEATTYEERDAWVQAIQSQILASLQSCSSKSKSQTLSQSEAMALQSIQNMGRNAHCV  
DYETQNPKWASNLNLGVMCIECSGIHRSGLTRLSRVRSLELDDWPVELRKVMSSIGNDLA  
NSIWEGSSQGQTKPSVKSTREEKERWIRSKYEEKLFLAPLPCTELSLGQHLLRATADEDL  
QTAILLLAHGSREEVNETCGEGDGCTALHLACRKGNVLAQLLIWYGVDMARDAHGNTA  
LTYARQASSQECINVLLQYGCPDECV

>sp|Q5VTM2|AGAP9\_HUMAN Arf-GAP with GTPase, ANK repeat and PH domain-containing protein  
9 OS=Homo sapiens GN=AGAP9 PE=3 SV=2

MFEDVFSDSGNTGNFDRGKKRRLTIIECGCDINMMIDLAKVADLVLMILIDASFGFEMEMF  
EFLNICQAHGFPKILGLVTHLDSFKHNKQLKKTKKRLKHRFWTEVYQDKVGLTHELVQSL  
ISTYSTIDAKMASSRVTLTSSNSKPLGSEAIDNQGVSLFDQQQGSVCPSESEIYEAGAED  
RMAGAPMAAAVQPAEVTVEVGEDLHMHQVRDREMPEVVEIRRSNCTNHCDLGTSSYHTK  
VSTVHIMKKRNGGSLNNYSSSIPPTPSTSQEDPQFSVPPTANTPTPVCKRSMRWSNLFT  
SEKGSDDPKERKAPENHADTIGSGRAIPIKQGMLLKRSKGWLKTWKKKYVTLCNSGVLTY  
YSSLDGYMKNHKKKEIDLRTSTIKVPGKWPSLATSACAPISSSKSNGLSKMDMTGLGDSI  
CFSPGISSTTSPKLNPPPSPHANKKKHLKKKSTNNFMIVSATGQTWHEATTYEERDAWV  
QAIQSQILASLQSCSSKSKSQTLSQSEAMALQSIQNMGRNAHCVDCETQNPKWASNLG  
VLMCIECSGIHRSFGTRLSRVRSLELDDWPVELRKVMSSIGNELANSIWEGSSQGQTKPS  
IKSTREEKEWWIRSKYEEKLFLAPLPCTELSLGQQLLRATDDEDLQTAILLLAHGSREEV  
NETCGEGDGCTALHLACRKGNVLEQLLTGWTSPWEMPTGTQR

>sp|075969|AKAP3\_HUMAN A-kinase anchor protein 3 OS=Homo sapiens GN=AKAP3 PE=1 SV=2

MSEKVDWLQSQNGVCKVDVYSPGDNAQDWKMDTSTDVVRVLSWLRRDEKSTAEFQDVR  
FKPGESFGGETSNSGDPHKGFSDYYNTTTKGTPERLHFEMTHKEIPCQGPRAQLGNGSS  
VDEVSFYANRLTNLVIAMARKEINEKIDGSENKCVYQSLYMGNEPTPTKSLSKIASELVN  
ETVSACSRNAAPDKAPGSGDRVSGSSQSPPNLKYKSTLKIKESTKERQGPDDKPPSKKSF  
FYKEVFESRNGDYAREGGRRFRPRERKRFRGQERPDDFTASVSEGIMTYANSVSDMMVSI  
MKTLLKIQVKDTTIATILLKKVLLKHAKEVSDLIDSFLRNLHSGVTGLMTDTQFVSAVKR  
TVFSGSQKATDMDAMLRKLYNVMFAKKVPEHVRKAQDKAESYSLISMKGMDPKNRNV  
NFAMKSETKLREKMYSEPKSEEETCAKTLGEHIKEGLTLWHKTQQKECKSLGFQHAAFE  
APNTQRKPASDISFEYPEDIGNLSPPYPPEKPENFMYDSDSWAEDLIVSALLLIQYHLA  
QGGRRDARSFVEAAGTTNFPANEPVAPDESCLKSAPIVGDQEAEEKDLRSVFFNFIRN  
LLSETIFKRDQSPEPKVPEQPVKEDRKLCERPLASSPPRLYEDDETPGALSGLTKMAVSQ  
IDGHMSGQMVEHLMNSVMKLCVIAKSCDASLAELGDDKSGDASRLTSAFPDSLYECLPA

KGTGSAEAVLQNAVQAIHNEMRGTSQPPEGCAAPTIVIVSNHNLTDTVQNKQLQAVLQWV  
AASELNVPILYFAGDDEGIQEKLQLSAAAVDKGCSVGEVLQSVLRYEKERQLNEAVGNV  
TPLQLLDWLMVNL

>sp|Q92667|AKAP1\_HUMAN A-kinase anchor protein 1, mitochondrial OS=Homo sapiens GN=AKAP1  
PE=1 SV=1

MAIQFRSLFPLALPGMLALLGWWFFSRKKGHVSSHDEQQVEAGAVQLRADPAIKEPLPV  
EDVCPKVVSTPPSVTEPPEKELSTVSKLPAEPPALLQTHPPCRRSESSGILPNTTDMRLR  
PGTRRDDSTKLELALTGGEAKSIPLECLSSPKGVLFSSKSAEVCKQDSPFSRVPRKVQP  
GYPVVPAEKRSSGERARETGAAGTGDAVLGEKVLEEALLSREHVLELENSKGPSLASLE  
GEEDKGKSSSSQVVGVPVQEEYYAEKLPSRFIESAHTELAKDDAAPAPPVADAKAQDRGV  
EGELGNEESLDRNEEGLDRNEEGLDRNEESLDRNEEGLDRNEEIKRAAFQIISQVISEAT  
EQVLATTVGKVAGRVCQASQLQGQKEESCVPVHQKTVLGPDTAEPATAEAAVAPPDAGLP  
LPGLPAEGSPPPKTYVSCLKSLSSPTKDSKPNISAHHISLASCLALTTPSEELPDRAGI  
LVEDATCVTCMSDSSQSVPLVASPGHCSDSFSTSGLEDSCETETSSSPRDKAITPPLPEST  
VPFSNGVLKGELSDLGAEDGWTMDAEADHSGGSDRNSMDSVDSCCSLKKTESFQNAQAGS  
NPKKVDLI IWEIEVPKHLVGRILGKQGRYVSFLKQTSGAKIYISTLPYTQSVQICHIEGS  
QHHVDKALNLIGKKFKELNLTNIYAPPLPSLALPSLPMTSWLMLPDGITVEVIVVNQVNA  
GHLFVQQHTHTPTFHALRSLDQQMYLCYSQPGIPTLPTPVEITVICAAPGADGAWWRAQVV  
ASYEETNEVEIRYVDYGGYKRVKVDVLRQIRSDFVTLPFQGAEVLLDSVMPLSDDDQFSP  
EADAAMSEMTGNTALLAQVTSYSPTGLPLIQLWSVVGDEVVLINRSLVERGLAQWVDSYY  
TSL

>sp|Q5T2L2|AKCL1\_HUMAN Putative aldo-keto reductase family 1 member C8 OS=Homo sapiens  
GN=AKR1C8P PE=5 SV=2

MMTDLKQSHSVRLNDGPFMPVLGFGTYAPDHTPKSQAAEATKVAIDVGFRHIDSAYLYQN  
EEEVGQAIWEKIADGTVKREEIFYTIKLWATFFRAELVHPALERSLKKLGPDYVDLFIH  
VPFAMKGSS

>sp|P24298|ALAT1\_HUMAN Alanine aminotransferase 1 OS=Homo sapiens GN=GPT PE=1 SV=3

MASSTGDRSQAVRHGLRAKVLTLTGMNPRVRRVEYAVRGPVQRALELEQELRQGVKKPF  
TEVIRANIGDAQMGQRPITFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQACGGHSL  
GAYSVSSGIQLIREDVARYIERRDGGIPADPNNVFLSTGASDAIVTVLKLIVAGEGHTRT  
GVLIPIPQYPLYSATLAELGAVQVDYLLDEERAWALDVAELHRALGQARDHCRPRALCVI  
NPGNPTGQVQTRECIEAVIRFAFEERLFLLADEVYQDNVYAAGSQFHSFKVLMEMGPPY  
AGQQELASFHSTSKGYMGECEGFRGGYVEVVNMDAAVQQQMLKMSVRLCPPVPGQALLDL  
VVSPAPTDPFSAQFQAEKQAVLAELAAKAKLTEQVFNEAPGISCNPVQGAMYSFPRVQL  
PPRAVERAQELGLAPDMFFCLRLLEETGICVVPGSGFGQREGTYHFRMTILPPEKLRL  
LEKLSRFHAKFTLEYS

>sp|Q8TD30|ALAT2\_HUMAN Alanine aminotransferase 2 OS=Homo sapiens GN=GPT2 PE=1 SV=1

MQRAAALVRRGCGRTPSSWGRSQSSAAAEASAVLKVRPERSRRERILTLESMNPQVKAV  
EYAVRGPVILKAGEIELELQRGIKKPFTEVIRANIGDAQMGQRPITFLRQVMALCTYPN  
LLDSPSPFEDAKKRARRILQACGGNSLGSYSASQGVNCIREDVAAYITRRDGGVPADPDN  
IYLTGASDGISTILKILVSGGKSRTGVMIPQYPLYSAVISELDAIQVNYLDEENC  
WALNVNELRRVQEAKDHCDPKVLCIINPGNPTGQVQSRKCIEDVIHFAWEEKLFLLADE  
VYQDNVYSPDCRFHSFKKVL YEMGPEYSSNVELASFHSTSKGYMGECEGFRGGYMEVINLH  
PEIKGQLVKLLSVRLCPPVSGQAAMDIVVNPPVAGEESFEQFSREKESVLGNLAKKAKLT

EDLFNQVPGIHCNPLQGAMYAFPRIFIPAKAVEAAQAHQMAPDMFYCMKLEETGICVVP  
GSGFGQREGTYHFRMTILPPVEKLKTVLQKVDFHINFLEKYA

>sp|Q9Y673|ALG5\_HUMAN Dolichyl-phosphate beta-glucosyltransferase OS=Homo sapiens GN=ALG5  
PE=1 SV=1

MAPLLLQLAVLGAALAAAALVLISIVAFTTATKMPALHRHEEEKFFLNAKGQKETLPSIW  
DSPTKQLSVVVPVSYNEEKRLPVMMDEALSYLEKRQKRDPFTYEIVVDDGSKDQTSKVA  
FKYCQKYGSDKVRVITLVKNRGKGGAIRMGIFSSRGEKILMADADGATKFPDVEKLEKGL  
NDLQPWPNQMAIACGSRAHLEKESIAQRSYFRTLLMYGFHFLVWFLCVKGIRDTQCGFKL  
FTREAASRTFSSLHVERWAFDVELLYIAQFFKIPIAEIAVNWTEIEGSKLVPFWSWLQMG  
KDLLFIRLRYLTGAWRLEQTRKMN

>sp|O14744|ANM5\_HUMAN Protein arginine N-methyltransferase 5 OS=Homo sapiens GN=PRMT5  
PE=1 SV=4

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGDFLCMPVFHPRFKREFIQEPAK  
NRPGPQTRSDLLSGRDWNTLIVGKLSPIRPSKVEKIRRNSEAAMLQELNFGAYLGLP  
AFLPLNQEDNTNLARVLTNHIHTGHHSSMFWMRVPLVAPEDLRDDI IENAPTHTHEEYS  
GEEKTWMWWHNFRITCDYSKRIAVALAIGADLPNSHVIDRWLGEPKAAILPTSIFLTNK  
KGFPVLSKMHQRLIFRLLKLEVQFIITGTNNHSEKEFCSYLQYLEYLSQNRPPPNAYELF  
AKGYEDYLSPLQPLMDNLESQTYEVFEKDIKYSQYQQAIYKCLLDVPEEEKDTNVQV  
LMVLGAGRGPLVNASLRAAQADRRIKLYAVEKNPNAVVTLENWQFEWGSQVTVVSSDM  
REWVAPEKADII VSELLGSFADNELSPECLDGAQHFLKDDGVSIPGEYTSFLAPISSSKL  
YNEVRACREKDRDPEAQFEMPYVVRHLNHFHQLSAPQPCFTFSHPNRDPMIDNNRYCTLEF  
PVEVNTVLHGFAFYFETVLYQDITLSIRPETHSPGMFSWFPILFPIKQPITVREGQTICV  
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

>sp|Q5XXA6|ANO1\_HUMAN Anoctamin-1 OS=Homo sapiens GN=ANO1 PE=1 SV=1

MRVNEKYSTLPAEDRSVHI INICAIEDIGYLPSEGTLNLSLSDPDAECKYGLYFRDGRR  
KVVDYILVYHHKPSGNRTLVRVQHSPTSGARSVKQDHPLPGKGASLDAGSGEPPMDYH  
EDDKRFRREEYEGNLEAGLELERDEDTKIHGVGVFKIHAPWNVLCREAEFLKLKMPTKK  
MYHINETRGLKKINSVLQKITDPIQPKVAEHRPQTMKRLSYPFSREKQHLFDLSDKDSF  
FDSKTRSTIVYEILKRTTCTKAKYSMGITSLLANGVYAAAYPLHDGDYNGENVEFNDRKL  
LYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIVFLYGCATM  
DENIPSMEMCDQRHINITMCPLCDKTSYWKMSACATARASHLFDNPATVFFSVFMALWA  
ATFMEHWKQKQRLNRYRDLTGFEETEEAVKDHPRAEYEARVLEKSLKKESRNKEKRRHI  
PEESTNKWKQRVKTAMAGVKLTDKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIY  
RISMAAALAMNSSPSVRNIRVTATAVI INLVVILLDEVYGCIARWLTKIEVPKTEK  
SFEERLIFKAFLKFNVSYPITYFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMEL  
CIQLSIIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLKQSPDHEECVKKRQRYEVDYNLE  
PFAGLTPEYMEMIIQFGFVTFLVASFPLAPLALLNNII EIRLDAKKFVTELRRPVAVRA  
KDIGIWINILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTLSSFNV  
SDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNL  
VMFMSDFVDWVIPDIPKDISSQIHKEKVLMLVELFMREEQDKQQLLETWMEKERQKDEPPC  
NHNHTKACPDSLGSPPASHAYHGGVL

>sp|Q9HCE9|ANO8\_HUMAN Anoctamin-8 OS=Homo sapiens GN=ANO8 PE=1 SV=3

MAEAASGAGGTSLEGERGKRPPPEGEPAAPASGVLDKLFGRLLQAGRYLVSHKAWMKTV  
PTENCVDLMTFPDPTDDHTLLWLLNHIRVGIPELIVQVRHHRHTRAYAFFVTATYESLLR

GADELGLRKAVKAEFGGTRGFSCEEDFIYENVESELRFFTSQERQSIIRFWLQNLRAKQ  
GEALHNVRFLEDQPIIPELAARGIIQQVFPVHEQRILNRLMKSQVAVCENQPLDDICDY  
FGVKIAMYFAWLGFYTSAMVYPAVFGSVLYTFTEADQTSRDVSCVVFALFNVIWSTLFLE  
EWKRRGAELAYKWGTLDSPGEAVEEPRPQFRGVRRISPITRAEEFYPPWKRLLFQLLVS  
LPLCLACLVCFLLMLGCFQLQELVLSVKGLPRLARFLPKVMLALLVSVSAEGYKKLAIW  
LNDMENYRLESAYEKHLIIKVVLQFVNSYLSLFYIGFYLKDMERLKEMLATLLITRQFL  
QNVREVLQPHLYRRLGRGELGLRAVWELARALLGLLSLRRPAPRRLEPQADEGGGGSGG  
GGRRCLSGGCGAPEEEEEAAALVERRRAGEGGEEDGPPGGKEEDEDDEEEDEEEDEE  
EGEEGLLDCGLRLKKVSFAERGAGRRRPGSPSEALLEEGSPTMVEKGLEPGVFTLAEED  
DEAEGAPGSPEREPPAILFRRAGGEGRDQGPDPGPDPEPGSNSDSTRRQRRQNRSSWIDP  
PEEEHSPQLTQAELESCMKYEDTFQDYQEMFVQFGYVVLFSASFPLAALCALVNNLIEI  
RSDAFKLCTGLQRPFGQRVESIGQWQKVMAMGVLAIVNCYLIGQCGQLQRLFPWLSPE  
AAIVSVVLEHFALLKYLIVHAIPDIPGWVAEEMAKLEYQRREAFKRHERQAQHRYQQQ  
QRRRREEEERQRHAEHHARREHDSGGREEARAEGSGLDPATSEKASAKAGSTAGGHGP  
ERPKRPGSLLAPNNVMKLKQIIPQLGKFLSSGATSSLAAAGAGATTRPPPAQSPTGSDTR  
LPAFLSFKFLKSPETRRDSERSHSPKAFHAGKLPFPGGTRAEPGSNGAGGQARPDGTPS  
SGSSRVQRSGPVDEALAELEAPRPEEEGSGTALAPVGAPALRTRRSRPAPPPMPLPR  
PPTPPAGCWQWDGPWCGGEGAAPRQALAAECPPCAMAGPPPAPQPLPGDASFYSLPPP  
PLPPTSDPLETPAPSPSPSPQAVCWPSGWH

>sp|P16066|ANPRA\_HUMAN Atrial natriuretic peptide receptor 1 OS=Homo sapiens GN=NPRI PE=1  
SV=1

MPGPRRPAGSRLRLLLLLLPLLLLLRGSHAGNLTVAVVLPLANTSYPWSWARVGP  
LALAQVKARPDLPGWTVRTVLGSSSENALGVCSDTAAPLAADVLDKWEHNPVAVFLGPGCVY  
AAPVGRFTAHRVPLLTAGAPALGFGVKDEYALTTRAGPSYAKLGDFVAALHRLGWER  
QALMLYAYRPGDEEHCFFLVEGLFMRVRDRLNITVDHLEFAEDDLSHYTRLLRTMPRKGR  
VIYICSSPDAFRTMLLALAEAGLCGEDYVFFHLDIFGQSLQGGQGPAPRRPWERGDDQDV  
SARQAFQAAKIIITYKDPDNPEYLEFLKQLKHLAYEQFNFTMEDGLVNTIPASFHDGLLLY  
IQAVTETLAHGGTVTDGENITQRMWNRSFQGVTYGLKIDSSGDRETDFSLWMDPENGAF  
RVVLNYNGTSQELVAVSGRKLNWPLGYPPDIPKCGFDNEDPACNQDHLSTLEVLALVGS  
LSLLGILIVSFFIYRKMQLEKELASELWVRWEDVEPSSLERHLRSAGSRLTSGRGSNY  
GSLLTTEGQFQVFAKTAYYKGNLVAVKRVNRKRIELTRKVLFEKHMARDVQNEHLTRFVG  
ACTDPPNICILTEYCPRGSLQDILENESITLDWMFRYSLTNDIVKGMLFLHNGAICSHGN  
LKSSNCVVDGRFVLKITDYGLESFRDLDPQGHQTVYAKKLWTAPELLRMASPPVRGSQAG  
DVYSFGIILQEIALRSGVFHVEGLDLSPKEIIERVTRGEQPPFRPSLALQSHLEELGLLM  
QRCWAEDPQERPPFQIIRLTLRKFNRNSSNILDNLLSRMEQYANNLEELVEERTQAYLE  
EKRAEALLYQILPHSVAEQLKRGETVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVT  
LNDLYTCFDAVIDNFVYKQVETIGDAYMVVSGLPVRNGRLHACEVARMALALLDAVRSFR  
IRHRPQEQLRLRIGIHTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGEALKIHLSET  
KAVLEEFGGFELELRGDVEMKGKGVRTYWLLGERGSSTRG

>sp|A6NGH8|ANKR61\_HUMAN Ankyrin repeat domain-containing protein 61 OS=Homo sapiens  
GN=ANKRD61 PE=3 SV=2

MGNITRKGSRLVVDSAKSLEDGPSAALHSKLYEAIMREDCTTIEVLLRNHPVNQPITIL  
PNSASNRLLTQPTESIPIHLAAKYHKAQSLLCLLRHGADPEVRDITGLTTNLMLLHW  
PVTSTTWAKPGNRTHRILTDIQNSSITCLRILCAHGAQVNTQGEISNKRSPHLAIAYGC



YPVLSILTQNGADVNAINEASMTPLHMAANMLNKEMMETLIAYGANVNCAVSSTGNTPLK  
LAVCTASSKAGRLLGAGVSCIRLLLTHGAKVNAQDYKGQTAIHEACFGGREAIINLLEF  
EANVNILTRNGESPIYMYLQRSCNVRDTALLARLLYHTYPLRMTNNQGILPAGIMLPEFR  
LLRDTLIKQSQKPLSLQGICKRNIRNIYGEKYKQHLKQFLPVTIWNVSVCYDLAYTS

>sp|E5RJM6|ANR65\_HUMAN Ankyrin repeat domain-containing protein 65 OS=Homo sapiens  
GN=ANKRD65 PE=2 SV=2

MDSQRPEPREEEEEQELRWMELDSEELGTRTEGPSVVQGWGHLLQAVWRGPAGLVTQL  
LRQGASVEERDHAGRTPLHLAVLRGHAPLVRLLLRGAPVGAVDRAGRTALHEAAWHGHS  
RVAELLQRGASAAARSGLTPLHWAALGHTLLAARLLEAPGPGPAAAAEAEDARGWTA  
AHWAAAGGRLAVLELLAAGGAGLDGALLVAAAARGAALRFLARGARVDARDGAGATAL  
GLAAALGRSQDIEVLLGHGADPGIRDRHGRSALHRAAARGHLLAVQLLVQGAEDARDT  
LGLTPLHHASREGHVEVAGCLDRGAQVDATGWLKRTPLHLAAERGHGPTVGLLLSRGAS  
PTLRTQWAEVAQMPEGDLPQALPELGGGEKECEGIESTG

>sp|Q92625|ANS1A\_HUMAN Ankyrin repeat and SAM domain-containing protein 1A OS=Homo sapiens  
GN=ANKS1A PE=1 SV=4

MGKEQELLEAARTGHLPAVEKLLSGKRLSSGFGGGGGGSGGGGGSGGGGGGLGSSSHP  
LSSLLSMWRGPNVNCVDSTGYTPLHHAALNGHKDVVEVLLRNDALTNVADSKGCYPLHLA  
AWKGDAQIVRLLIHQGPSHTRVNEQNNDNETALHCAAQYGHTEVVKVLEELTDPTMRNN  
KFETPLDLAALYGRLEVVKMLNAHPNLLSCNTKKHTPLHLAARNGHKAVVQVLLDAGMD  
SNYQTEMGSALEAALFGKTDVVQILLAAGTDVNIKDNHGLTALDTVRELPSQKSQQIAA  
LIEDHMTGKRSTKEVDKTPPPQPLISSMDSISQKSQGDVEKAVTELIIDFDANAEIEGP  
YEALYNAISCHSLDSMASGRSSDQDSTNKEAEAAGVKPAGVRPRERPPPAKPPPDEEEE  
DHIDKKYFPLTASEVLSMRPRIHGSAAAREDEHPYELLLTAETKKVVLVDGKTKDHRSS  
SSRSQDSAEGQDQVPEQFSGLLHGSSPVCEVGQDPFQLLCTAGQSHPDGSPQQGACHKA  
SMQLEETGVHAPGASQPSALDQSKRVGYLTGLPTTNSRSHPETLTHTASPHPGGAEEGDR  
SGARSAPPTSKPKAELKLSRSLSKSDSLLTCSPTEDATMGSRSELSNCSIGKKRLEK  
SPSFASEWDEIEKIMSSIGEGIDFSQERQKISGLRTLEQSVGEWLESIGLQQYESKLLN  
GFDDVHFLGSNMEEQDLRDIGISDPQHRRKLLQAARSLPKVKALGYDGNPPSPVPSWLD  
SLGLQDYVHSFLSSGYSSIDTVKNLWELELVNVLKVQLLGHKRKRIIASLADRPYEEPPQK  
PPRFSQLRCQDLLSQTSPLSQNDSTGRSADLLLPPGDTGRRRHDSLHDPAAPSRAERF  
RIQEEHREAKLTRPPSLAAPYAPVQSWQHQPPEKLIFESCGYEANYLGSMLIKDLRGTES  
TQDACAKMRKSTEHMKKIPTIILSITYKGVKFIDASNKNVIAEHEIRNISCAAQDPEDLC  
TFAYITKDLQTSHHYCHFSTVDVNLTYEIIITLGQAFEVAYQLALQAQKSRATGASAAE  
MIETKSSKVPKPRVGVRKSALEPPDMDQDAQSHASVSWVDPKPSKRSLSSTN

>sp|Q6Q4G3|AMPQ\_HUMAN Aminopeptidase Q OS=Homo sapiens GN=LVRN PE=1 SV=4

MGPPSSSGFYVSRAVALLAGLVAALLLALAVLAALYGHCEVPPSELPGLRDLEAESSP  
PLRQKPTPTPKPSSARELAVTTTPSNWRPPGPWDQLRLPPWLVLHYDLELWPQLRPDEL  
PAGSLPFTGRVNIIVRCTVATSRLLLHSLFQDCERAEVGRPLSPGTGNATVGRVPDDVW  
FALDTEYMVLELSEPLKPGSSYELQLSFGSLVKEDLREGLFLNVYTDQGERRALLASQLE  
PTFARYVFPFCDEPALKATFNITMIHHPYSYVALSNMPKLGQSEKEDVNGSKWTVTTFSTT  
PHMPTYLVAFVICDYDHVNRTERGKEIRIWARKDAIANGSADFALNITGPIFSFLEDLFN  
ISYSLPKTDIIALPSFDNHAMENWGLMIFDESGLLLEPKDQLTEKKTLSYVVSHEIGHQ  
WFGNLVTMNNWNNIWLNEGFASYFEFEVINYFNPKLPRNEIFFSNILHNILREDHALVTR  
AVAMKVENFKTSEIQELFDIFTYSGGASMARMLSCFLNEHLFVSALKSYLKTFYSYNAEQ

DDLWRHFQMAIDDDQSTVILPATIKNIMDSWTHQSGFPVITLNVSTGVMKQEPFYLENIKN  
RTLLTSNDTWIVPILWIKNGTTQPLVWLDQSSKVPFEMQVSDSDHDWVILNLTGYYRV  
NYDKLGWKKLNQLEKDPKAIPIVHRLQLIDDAFSLSKNNYIEIETALELTKYLAEDEI  
IVWHTVLVNLVTRDLVSEVNIYDIYSLKRYLLKRLNLIWNIYSTIIRENVLALQDDYLA  
LISLEKLFVTACWLGLEDCQLSKELFAKWVDHPENEIPYPIKDVVLCYGIALGSDKEWD  
ILLNTYTNTTNKEEKIQLAYAMSCSKDPWILNRYMEYAISTSPFTSNETNIIIEVVASSEV  
GRYVAKDFLVNNWQAVSKRYGTQSLINLIYITIGRTVTTLQIVELQQFFSNMLEEHQRIR  
VHANLQTIKNENLKNKLSARIAAWLRRNT

>sp|Q8IZ07|AN13A\_HUMAN Ankyrin repeat domain-containing protein 13A OS=Homo sapiens  
GN=ANKRD13A PE=1 SV=3

MSSACDAGDHYPLHLLVWKNDRQLEKELQGGQNVAVDPRGRTLLHLAVSLGHLESARVL  
LRHKADVTKENRQGWTVLHEAVSTGDPPEMVYTVLQHRDYHNTSMALEGVPELLQKILEAP  
DFYVQMKWEFTSWVPLVSRICPNVDCRIWKSAGAKLRVDITLLGFENMSWIRGRSIFIKG  
EDNWAELEMEVNHDDKVVTTERFDLSQEMERLTLDLMPKSREVERRLTSPVINTSLDTKN  
IAFERTKSGFGWRTDKAEVNGYEAKVYTVNNVNVITKIRTEHLTEEEKKRYKADRNP  
ESLLGTVEHQFGAQGDLTTECATANNPTAITPDEYFNEEFDLKDRDIGRPKELTIRTQKF  
KAMLWMCEEFPPLSLVEQVIPIIDLMARTSAHFARLRDFIKLEFPFGFPVKIEIPLFHVNL  
ARITFGNVNGCSTAEESVSQNVETQADSASHITNFEVDQSVFEIPESYYVQDNGRNVHL  
QDEDEYIMQFAIQSLLESSRSQELSGPASNGGISQTNTYDAQYERAIQESLLTSTEGLC  
PSALSETSRFDNDLQLAMELSAKELEEWELRLQEEEAELQQVLQLSLTDK

>sp|Q8N6S4|AN13C\_HUMAN Ankyrin repeat domain-containing protein 13C OS=Homo sapiens  
GN=ANKRD13C PE=2 SV=2

MTGEKIRSLRRDHKPSKEEGDLLEPGDEEAAAALGGTFTRSIRIGKGGKACHKIFSNHHHR  
LQLKAAPASSNPPGAPALPHNSSVTANSQSPALLAGTNPVAVVADGGSCPAHYPVHECV  
FKGDVRRSSLIRTHNIGQKDNHGNTPLHLAVMLGNKECAHLLLAHNAPVKVNAQGWSP  
LAEAISYGDRQMITALLRKLKQSQRESVEEKRPRLLKALKELGDFYLELHWDFQSWVPLL  
SRILPSDACKIYKQGINIRLDTTLIDFTDMKCQRGDLSFIFNGDAAPSESFVVDNEQKV  
YQRIHHEESEMETEEVDILMSSDIYSATLSTKSISFTRAQTGWLFRDCKTERVGNFLAD  
FYLNVGLVLESRRRREHLSEEDILRNKAIMESLSKGGNIMEQNFEPIRRQSLTPPPQNTI  
TWEEYISAENGKAPHLGRELVCESKKTFKATIAMSQEFPLGIELLLNVLEVVPFKHFN  
KLREFVQMKLPPGFPVKLDIPVFPTITATVTFQEFRYDEFDGSIFTIPDDYKEDPSRFPD  
L

>sp|Q5CZ79|AN20B\_HUMAN Ankyrin repeat domain-containing protein 20B OS=Homo sapiens  
GN=ANKRD20A8P PE=2 SV=2

MKLFGFGSRRGQTAEGSIDHVYTGSGYRIRDSELQKIHRAAVKGDAAEVERCLARRSGDL  
DARDKQHRTALHLACASGHVQVVTLLVNRKCQIDICDKENRTPLIQAVHCQEEACAVILL  
KHGANPNLKDIYGNALHYAVYSESTSLAEKLLSHGAHIEALDKDSNTPLLFAICKKEK  
MVEFLKKKASTHAVDRLRRSALMLAVYYDSPGIVSILLKQNIQVFAQDMCGRDAEDYAI  
SHHLTKIQQQILEHKQKILKKEKSDVGSSDESIVSIFHELVRVDSLPAQDDKDLVATKQC  
VPEKVSEPLPGPSHEKGNRIVNGQGEPPAKHPSLKPTTGVEDPAVKGAVQRKNVQTLRA  
EQALPVASEEEQERHERSEKKQPQVKKGNNTNKSEKIQLSENICDSTSSAAAGRLTQQRK  
IGKTPQQFPKKLKEEHDCKTLQENEEKTNVNMLYKKNREELERKEKQYKKEVEAKQLE  
PTVQSLEMKSKTARNTPNRDFHNHEETKGLMDENCILKADIAILRQEICTMKNDNLEKEN  
KYLKDIKIVKETNAALEKYIKLNEEMITETAFFRYQQELNDLKAENTRLNAELLKEKESKK

RLEADIESYQSRLAAAIGKHSESVKTERNVKLALERTQDVSQVEMSSAISVKDENEFL  
TEQLSETQIKFNALKDKFRKTRDSLRRKSLALETVQNDLRKTQQQTQEMKEMYQNAEAKV  
NNSTGKWNCVEERICHQLQRENALVQQLDDVHQKEDHKEIVTNIQRGFIESGKKDLVLEE  
KSKKLMNECDHLKESLFQYEREKAEGVVS IKEDKYFQTSRKKI

>sp|Q5JPF3|AN36C\_HUMAN Ankyrin repeat domain-containing protein 36C OS=Homo sapiens  
GN=ANKRD36C PE=1 SV=3

MDDKEPKRWPTLRDLRCLSDGLFPQYPIKPYHLKGIHRAVFYRDLEELKFVLLTRYDINK  
RDRKERTALHLACATGQPEMVHLLVSRCELNLCDREDRTPLIKAVQLRQEACATLLLQN  
GADPNITDVFGR TALHYAVYNEDTSMIEKLLSYGANIEECSEDEYPPFLAVSQRKVKMV  
EFLKKKANINAVDYLGRSALIHAVTLGEKDIVILLQHNI DVFSRDVYGKLAEDYASEA  
KNRVIFELIYEYERKKHEELS INSNPVSSQKQPALKATSGKEDSISNIATEIKDGQKSGT  
VSSQKQPALKGTSDKND SVSNTATEIKDEQKSGTVSSQKQPALKDTSKND SVSNTATEI  
KDEQKSGTVLP AVEQCLNRSLYRPDAVAQPVTEDFALESEIISKLYIPKRKII SPRSIE  
DVLPPVEEAVDRCLYLLDRFAQAVTKDKFALESENISEPYFTNRRTISQQSAEKLDACG  
IDKTENGLTFEDQNV DKEGKALPATGQKANVSPEQPPLFTHTVKDSDHISTRFLGSMDSL  
TSSEESSERPPLSTLT LKEADPSSKAAMRRKDSPPPGKVSSQKQPAEKATSDDKDSVSN I  
ATEIKEGPISGTVSSQKQPAEKATSD EKDSVSN IATEIKEGQSGTVSPQKQSAWKVIFK  
KKVSLLN IATRITGGGKSGTVSSQKQPPSKATSDKTDSALNIATEIKDGLQCGTVSSQKQ  
PALKATDEEDSVSN IATEIKDGEKSGTVSSQKQPALKATDEEDSVSI IATEIKDGEKS  
GTVSSRKKPALKATSD EKDSFSNITREKKDGEISRTVTSEKPAGLKATSD EEDSVLN IAR  
GKEDGEKTRRVSSRKKPALKATSD EKDSFSNITREKKDGETSRTVSSQKPPALKATSD EE  
DSVLNIAREKKDGEKSRTVSSEKPSGLKATSD EKDSVLNIARGKKHGEKTRRVSSHQPA  
LKATSDKENSVPNMATETKDEQISGTVSSQKQPALKATSDKKDSVSNIPTEIKDGQKSGT  
VSSQKQLAWKATSVKKDSVSN IATEIKDGQIRGTVSSQRQPALKATGDEKDSVSN IAREI  
KDGEKSGTVSPQKQSAQKVIFKKKVSLLN IATRITGGWKSGTEYPENLPTLKAT IENKNS  
VLNTATKMKDVQTSTPEQDLEMASEGEQKRLEEYENNQPQVKNIHSRDDLDDIIQSSQT  
VSEDGDSLCCNCKNVILLIDQHEMKCKDCVHLLKIKKTFCLCKRLTELKDNHCEQLRVKI  
RKLKNKASVLQKRLSEKEEIKSQLKHETLELEKELCSLRFATQQEKKRRNVEELHQKVR  
EKLRIITEEQYRIEADVTKPIKPAKLSAEVELKTGGNNSNQVSETDEKEDLLHENRLMQDE  
IARLRLEKDTIKNQNL EKKYLKDFEIVKRKHEDLQKALKRNEETLAETIACYSGQLAALT  
DENTTLRSKLEKQRESGQRLETEMQSYRCRLNAALCDHDQSHSSKRDQELAFQGTVDKCC  
HLQENLN SHVLILSLQLSKAESKFRVLETELHYTGEALKEKALVFEHVQSELKQKQSQMK  
DIEKMYKSGYNTMEKCIEKQERFCQLKKQNMLLQQQLDDARNKADNQEKA IILNIQARCD A  
RVENLQAECRKHRL LLEEDNKMLVNELNHSKEKKCQYEKEKAEREVAVRQLQQKQDDVLN  
KRSATKALLDASSRHCIYLENGMQDSRKKLDQMRSQFQEIQDQLTATIRCTKEMEGDAQK  
LEVENVMRKIIKKQDEQIERFEKILQHSSMLMLQVFES

>sp|Q9BY76|ANGL4\_HUMAN Angiopoietin-related protein 4 OS=Homo sapiens GN=ANGPTL4 PE=1  
SV=2

MSGAPTAGAALMLCAATAVLLSAQGGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAE  
RTRSQLSALERRLSACGSACQGTEGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLF  
HKVAQQQRHLEKQHLRIQHLQSQFGLLDHKHLDHEVAKPARRKRLPEMAQPVPDPAHNVSR  
LHRLPRDCQELFQVGERQSGLFEIQPQGSPFLVNCKMTSDGGWTVIQR RHGSDVDFNRP  
WEAYKAGFGDPHGEFWLGLEKVHSITGDRNSRLAVQLRDWDGNAELLQFSVHLGGEDTAY  
SLQLTAPVAGQLGATTVP PSLVPPFSTWDQDHLRRDKNCAKSLSGGWWFGTCSHSNLN

GQYFRSIPQQRQKLKKGIFWKTWRGRYYPLQATTMLIQPMAAEAAAS

>sp|Q9HCJ1|ANKH\_HUMAN Progressive ankylosis protein homolog OS=Homo sapiens GN=ANKH PE=1 SV=2

MVKFPALTHYWPLIRFLVPLGITNIAIDFGEQALNRGIAAVKEDAVEMLASYGLAYSLMK  
FFTGPMSDFKNVGLVFVNSKRDRTKAVLCMVVAGAIAAVFHTLIAYSDLGYIINKLHHV  
DESVGSKTRRAFLYLAAPFMDAMAWTHAGILLKHKYSFLVGCASISDVIAQVVFVAILL  
HSHLECREPLLIPLSLYMGALVRCTTLCGLYYKNIHDIIPDRSGPELGGDATIRKMLSF  
WWPLALILATQRISRPIVNLVFSRDLGGSSAATEAVAILTATYPVGHMPYGWLTEIRAVY  
PAFDKNNPSNKLVSNTVTAAHIKKFTFVCMALSLTLCFVMFWTPNVSEKILIDIIGVD  
FAFAELCVVPLRIFSFFPVPVTVRAHLTGWMLTKKTFVLAPSSVLRIIVLIASLVVLPY  
LGVHGATLGVGSLLAGFVGESTMVAIAACYVYRKQKKMENESATEGEDSAMTDMPTTEE  
VTDIVEMREENE

>sp|Q8NFD2|ANKK1\_HUMAN Ankyrin repeat and protein kinase domain-containing protein 1 OS=Homo sapiens GN=ANKK1 PE=2 SV=1

MAADPTELRLGSLPVFTRDDFEGDWRLVASGGFSQVFQARHRRWRTEYAIKCAPCLPPDA  
ASSDVNYLIEEAAKMKIKFQHIVSIYGVCKQLGIVMEFMANGSLEKVLSTHSLCWKL  
FRIIHETSLAMNFLHSIKPPLLHDLKPGNILLDSNMHVKISDFGLSKWMEQSTRMQYIE  
RSALRGMLSYIPPEMFLESNKAPGPKYDVYSFAIVIWELLTQKKPYSGFNMMIIIRVAA  
GMRPSLQPVSDQWPSEAQQMVDLMKRCWDQDPKKRPCFLDITIETDILLSLLQSRVAVPE  
SKALARKVSCKLSLRQPEVNEDISQELMDSDSGNYLKRALQLSDRKNLVRDEELCIYE  
NKVTPHLFLVAQGSVEQVRLLLAHEVDVDCQTASGYTPLLIAAQDQQLCALLLAHGAD  
ANRVEDDGWAPLHFAAQNGDDGTARLLLDHGACVDAQEREGWTPHLAAQNNFENVARLL  
VSRQADPNLHEAEGKTPLHVAAYFGHVSLVKLLTSQGAELDAQQRNLRTPLHLAVERGKV  
RAIQHLLKSGAVPDALDQSGYGPLHTAAARGKYLICKMLLRYGASLELPTHQGWTPHLA  
AYKGHLEI IHLAESHANMGALGAVNWTPLHLAARHGEEAVVSALLQCGADPNAAEQSGW  
TPLHLAVQRSTFLSVINLLEHHANVHARNKVGWTPAHLAALKGNTAILKVLVEAGAQLDV  
QDGVSCPTPLQALRSRKQGIMSFLGKEPSVATLGGSKPGAEME I

>sp|Q8NAG6|ANKL1\_HUMAN Ankyrin repeat and LEM domain-containing protein 1 OS=Homo sapiens GN=ANKL1 PE=1 SV=2

MCSEARLARLRDALREEEPWAVEELLRCGADPNLVLEDGAAAVHLAAGARHPRGLRCLG  
ALLRQGGDPNARSVEALTPLHVAAGWCRRGLELLLSQGADPALRDQDGLRPLDLALQQG  
HLECARVLQDLDTTRTRTRTRIGAETQEPEPAPGTPGLSGPTDETLDISIALQKQPCRGDNR  
DIGLEADPGPPSLPVPLETVDKHGSSASPPGHWDYSSDASFTAVEVSGAEDPASDTPPW  
AGSLPPTRQGLLHVHANQRVPRSQGTAEELNARLQALTLTPNAAGFQSSPSSMPLDR  
SPAHSPPRTPTPGASDCHLWEHQTSIDSDMATLWLTEDEASSTGGREPVGPCRHLPVST  
VSDLELLKGLRALGENPHPIPTFTRQLYHQLEEAQIAPGPEFSGHSLELAAALRTGCIP  
DVQADEDALAQFEQPDARRWREGVVKSSFTYLLLDPRETQDLPARAFSLTPAERLQTF  
IRAIIFYVGKTRARPYVHLWEALGHHGRSRKQPHQACPKVRQILDIAWASGCGVVS LHCFQ  
HVVAVEAYTREACTIVEALGIQTLTNQKQGH CYGVVAGWPPARRRRRLGVHLLHRALLVFLA  
EGERQLHPQDIQARG

>sp|Q15327|ANKR1\_HUMAN Ankyrin repeat domain-containing protein 1 OS=Homo sapiens GN=ANKRD1 PE=1 SV=2

MMVLKVEELVTGKKNGEAGEFLPEDFRDGEYEA AVTLEKQEDLKTLLAHPVTLGEQQW  
KSEKQREAELKKKKLEQRSKLENLEDLEII IQLKKRKKYRKTKVPVVKPEPEPIITEPVD

VPTFLKAALENKLPVVEKF LSDKNNPDVCDEYKRTALHRACLEGLH LAIVEKLMEAGAQIE  
FRDMLESTAIHWASRGGNLDVLKLLLNKGAKISARDKLLSTALHVAVRTGHYEC AEHLIA  
CEADLNAKDREGDTPLHDAVRLNRYKMIRLLIMYGADLNIKN CAGKTPMDLVLHWQNGTK  
AIFDSLRENSYKTSRIATF

>sp|Q6ZW76|ANKS3\_HUMAN Ankyrin repeat and SAM domain-containing protein 3 OS=Homo sapiens  
GN=ANKS3 PE=1 SV=1

MSELSEASEPELLNRSLSMWHGLGTQVSGEELDVPLDLHTAASIGQYEVVKECVQRREL  
DLNKKNGGGWTPLMYASYIGHDTIVHLLLEAGVSVNVPTPEGQTPLMLASSCGNESIAYF  
LLQQGAELMKDIQGTALFHCT SAGHQHMRVFLLD SGANANVREPICGFTPLMEAAAAG  
HEIIVQYFLNHGVKVDARDHSGATARMLAKQYGHMKIVALMDTYSPLPKSLYRSPEKYE  
DLSSDESCPAPQRQPCRKKGVSIHEGPRALARITGIGLGGRAPRPRYEQAPPRGYVTF  
NSSGENPLEEEGLCCRDVTSPINERDVESSSSSSSREEHAFCANLGPVQSSSSSEGLARA  
QGLSSEASVESNEDSDHACKSSARKQAKSYMKTKNPDSQWPPRAATDREGFLAESSPQTQ  
RAPYSGPQDLAALLEIQGLKYLQVFEEQDVDLRIFLTLTESDLKEIGITLFGPKRKMTS  
AIARWHSSARPPGDALELAYADRL EAMQELAIQLHRC EEEVATRGQVCQEQLRAVVE  
SCLLEQDRARED LQARLRETWALARDAALVLDQLRACQAE LSSRV RQDQPPGAATLGLAV  
PPADSKGWQASLQAMSLPELSGALED RVREMGQALCLVTQSLEKLQVLNGKKWRET

>sp|A6NFN9|ANKUB\_HUMAN Protein ANKUB1 OS=Homo sapiens GN=ANKUB1 PE=2 SV=2

MRIFIAFEGSFEPFDVSADETVEVVKLMIKDYFHIPLSEDKQGRRYLELMYAGAALKDSW  
SLADVGISFCSTLKCFVKEEDKPTLYVFNAV TQDTMPVMESISLLDKTVSDLRTLVT LRC  
GLPVSVYCLRTPRGLEMYDCNTLKDYQTDIGTTLRLDVWDGWKEFLMGCLLGQKLKVQRY  
LSKEGPVLKYQKRVALYIAAFCGYIELTEWALKQGARPHEAVGVHPYRAWCHEALHADVS  
KCPHIAAAEAGQLLILKAFVNYSVLCLECKNAAGQTPLTIVFKHKHKDCVLYLLSKMWST  
VSFPKISVPMRIYIKIKQWILRAQSHSLHKSQFCGARVFGAKVGDTVMVDGFTKPKMTSK  
SWHKAGNSDSQSIVLKLPSLSKQTASSKPVNPLAISQPDTRKQALKFHPLKGESPKADKS  
SGIM

>sp|Q9P2S6|ANKY1\_HUMAN Ankyrin repeat and MYND domain-containing protein 1 OS=Homo sapiens  
GN=ANKMY1 PE=2 SV=2

MYQGEFGLNMKLG YKFSWPTGESYHGQFYRDHCHGLGTYMWPDGSSFTGT FYLSHREGY  
GTMYMKTRLFQGLYKADQRFGPGVETYPDGSQDVGLWFREQLIKLCTQIPSGFSLLRYPE  
FSSFITHSPARISLSEEEKTEWGLQEGQDPFFYDYKRFLNDNLTPPEMYVYSTNSDHL  
PMTSSFRKELDARIFLNEIPPFVEDGEPWFIINETPLL VKIQKQTYKFRNKPAHTSWNMG  
AILEGKRSGFAPCGPKEQLSMEMILKAE EGNHEWICRI LKDNFASADVADAKGYTVLAAA  
ATHCHNDIVNLLLD CGADV NKCSD EGLTALSMCFL LHYP AQSFKNVAERTIPEPQEPPK  
FPVVPILSSSFMDTNLES LYEVNVPSQGSYELRPPPA PLLLPRVSGSHEGGHFQDTGQC  
GGSIDHRSSSLKGDSP LVKGS LGHVESGLE DVLGNTDRGSLCSAETKFESNVCVCDFSIE  
LSQAMLESAQSHSLKMASPSPCTSSFDKGTMR RMALSMIERRKRWRTIKLLRRGADP  
NLCCVPMQVLF LAVKAGDVGVRLLLEHGARTD ICFPPQLSTLTPLHIAAALPGE EGVQI  
VELLLHAITDVDAKASDEDDTYKPGKLDLLPSS LKLSNEPGPPQAYYSTDTALPEEGGRT  
ALHMACEREDDNKCARDIVRLLLSHG ANPNLLWSGHSPLSLSIASGNELVVKELLTQ GAD  
PNLPLTKGLGSALCVACDLTYEHQRNMDSKLALIDRLISHGADILKPVMLRQGEKEAVGT  
AVDYG YFRFFQDRRIARCPFH TLM PAERETFLARKRLLEYMGLQLRQAVFAKESQWDPTW  
LYLCKRAELIPSHRMKKKGPSLPRGLDVKEQQQIPFFKFCYQCGRSIGVRLLPCPRCYGI  
LTCSKYCKTKAWTEFHKKDCGDLVAIVTQLEQVSRRREEFQ

>sp|Q9H8Y5|ANKZ1\_HUMAN Ankyrin repeat and zinc finger domain-containing protein 1 OS=Homo sapiens GN=ANKZF1 PE=1 SV=1

MSPAPDAAPASISLFDLSADAPVFQGLSLVSHAPGEALARAPRTSCSGSGERESPERK  
LLQGPMIDISEKLFCTCDQTFQNHQEQREHYKLDWHRFNLKQRLKDKPLLSALDFEKQSS  
TGDLSISGSESDSASEEDLQTLDRERATFEKLSRPPGFYPHRVLFQNAQGQFLYAYRC  
VLGPHQDPPEEAELLQNLQSRGPRDCVVLMAAAGHFAGAIQFGREVVTHKTFHRYTVRA  
KRGTAQGLRDARGGPPSHSAGANLRRYNEATLYKDVRDLLAGPSWAKALEEAGTILLRAPR  
SGRSLFFGGKGAPLQRGDPRLWDIPLATRRPTFQELQRVLHKLTTLHVYEDPREAVRLH  
SPQTHWKTVREERKKPTEEEIRKICRDEKEALGQNEESPKQSGSGEGEDGFQVELELVEL  
TVGTLDLCESEVLPKRRRRKRKKEKSRDQEAGAHRTLLQQTQEEEPSTQSSQAVAAPLG  
PLLDEAKAPGQPELWNALLAACRAGDVGVLLKLQAPSPADPRVLSLLSAPLGSGGFLLH  
AAAAAGRGSVVRLLEAGADPTVQDSRARPPYVAADKSTRNEFRFMEKNPDAYDYNKA  
QVPGPLTPEMEARQATRKREQKAARRQREEQQQRQQEQEEREREEQRRFAALSDREKRAL  
AAERRLAAQLGAPTSPIPDSAIVNTRRCWSCGASLQGLTPFHYLDFSFCSTRCLQDHRRQ  
AGRPSS

>sp|P20594|ANPRB\_HUMAN Atrial natriuretic peptide receptor 2 OS=Homo sapiens GN=NPR2 PE=1 SV=1

MALPSLLLLVAALAGGVRPPGARNLTLAVVLPEHNLSYAWAWPRVGPVALAVEALGRAL  
PVDLRFVSSELEGACSEYLAPLSAVDLKLYHDPDLLLPGPCVYPAASVARFASHWRLPLL  
TAGAVASGFSAKNDHYRTLVRTGPSAPKLGEFVVTLHGHNWTARAALLYLDARTDDRP  
YFTIEGVFEALQGSNLSVQHQQVYAREPGGPEQATHFIRANGRIVYICGPLEMLHEILLQA  
QRENLTNGDYVFFYLDVFGESLRAGPTRATGRPQDNRTREQAALREAFQTVLVITYRE  
PPNPEYQEFQNRLLIRAREDFGVELGPSLMNLIAGCFYDGILLYAEVLNETIQEGGTRED  
GLRIVEKMQGRRYHGVGTGLVMDKNNRETDFVLWAMGDLDSGDFQPAAHYSGAEKQIWW  
TGRPIPWVKGAPSDNPPCAFDDDPSCDKTPLSTLAIVALGTGITFIMFGVSSFLIFRK  
LMLEKELASMLWRIRWEELQFNGSERYHKGAGSRLTLSLRGSSYGSMTAHGKYQIFANT  
GHFKGNVVAIKHVNKKRIELTRQVLFELKHMVDVQFNHLTRFIGACIDPPNICIVTEYCP  
RGSLQDILENDSINLDMFRYSINLVLKGMFLHNSIISSHGSLKSSNCVVDSRFVLKI  
TDYGLASFIRSTAEPDDSHALYAKKLWTAPELLSGNPLPTTGMQKADVVSFGIILQEIALR  
SGPFYLEGLDLSPKEIVQKVRNGQRPYFRPSIDRTQLNEELVLLMERCWAQDPAERPDPFG  
QIKGFIRRFNKEGGTSILDNLLRMEQYANNLEKLVEERTQAYLEEKRAEALLYQILPH  
SVAEQLKRGETVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVTLLNDLYTCFDAIIDNF  
DVYKVETIGDAYMVVSGLPGRNGQRHAPEIARMALALLDAVSSFRIRHRPHDQLRLRIGV  
HTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGQALKIHVSSTTKDALDELGCFQLELR  
GDVEMKGKGKMRTYWLLGERKGPPGLL

>sp|Q6P6B7|ANR16\_HUMAN Ankyrin repeat domain-containing protein 16 OS=Homo sapiens GN=ANKRD16 PE=1 SV=1

MAQPGDPRRLCRLVQEGRLRALKEELQAAGGCPGPAGDTLLHCAARHGHRDVLAYLAEAW  
GMDIEATNRDYKRPLHEAASMGHRDCVRYLLGRGAAVDCLKKADWTPLMMACTRKNLGV  
QELVEHGANPLLKNKDGWNSFHIASREGDPLILQYLLTVCPGAWKTESKIRRTPLHTAAM  
HGHLEAVKVLLKRCQYEPDYRDNCGVTALMDAIQCGHIDVARLLLDEHGACLSAEDSLGA  
QALHRAAVTGQDEAIRFLVSELGVDVDVRATSTHLTALHYAAKEGHTSTIQTLTSLGADI  
NSKDEKNRSALHLACAGQHLACAKFLLQSGLKDSEITGTLAQQLPRRADVLQSGGHSAM

T

>sp|Q8TF21|ANR24\_HUMAN Ankyrin repeat domain-containing protein 24 OS=Homo sapiens  
GN=ANKRD24 PE=2 SV=2

MKTLRARFKKTELRLSPTDLGSCPPCGPCPIPKPAARGRRQSQDWGKSDERLLQAVENND  
APRVAALIARKGLVPTKLDPEGKSAFHAAAMRGAASCLEVMIAHGNSVMSADGAGYNALH  
LAAKYGHPQCLKQLLQASCVVVDVSSGWTALHHAAAGGCLSCSEVLCSFKAHLNPQDRS  
GATPLIIAAQMCHTDLCRLLLQQGAAANDQDLQGRTALMLACEGASPETVEVLLQGGAQP  
GITDALGQDAAHYGALAGDKLILHLLQEAAQRSPSPSALTEDDSGEASSQNSMSSHGKQG  
APKKRKAPPPASIPMPDDRDAYEEIVRLRQERGRLLQKIRGLEQHKERRQQESPEASSL  
HILERQVQELQQLLVERQEEKESLGREVESLQSRLSLENERENTSVDVTTLQDEEGELP  
DLPGAEEVLLSRQLSPSAQEHLASLQEQVAVLTRQNQELMEKVQILENFEKDETQMEVEAL  
AEVIPLALYDSLRAEFDQLRRQHAEALQALRQQETREVPREEGAACGESEVAGATATKNG  
PTHMELNGSVAPETKVNGAETIDEEAAGDETMEARTMEAEATGAEATGAEATGAKVTETK  
PTGAEVREMETTEEEANMETKPTGAQATDTETTGVAMGVEATKTKAEAEAMQAYGVGAG  
QAEPPVTGTTNMEATGSRATGMESTGVSATGVENPGVEATVPGISAGPILHPGAAEASEK  
LQVELETRIRGLEEALRQREREAALGKCEAAEAEAGRLRERVREAEGSGASGGG  
GGDTTQLRAALEQAREDLRDRSRLRELEAASACLDEARASRLAEEEEARGLRAELAQRE  
EARLEQSRELEVLREQLATARATGEQQRTAAAEALGRARDAAEARVAELPAACEEARQGLA  
ELREASEALRQSVVPASEHRRLEAELELRGRAASLEQEVVATGKEAARLRAELERERC  
SVALSEHERIVGTLQANVAQLEGLEELGRRHEKTSAEVFQVQREALFMKSERHAAEAQL  
ATAEQQLRGLRTEAERARQAQSRQAQALDKAKEKDKKITELSKEVFNLEALKEQPAALA  
TPEVEALRDQVKDLQQQLQEAARDHSSVVALYRSHLLYAIQGQMEDVDVQRILSQILQMQR  
LQAQGR

>sp|O15084|ANR28\_HUMAN Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat  
subunit A OS=Homo sapiens GN=ANKRD28 PE=1 SV=5

MAFLKLRDQPSLVQAI FNGDPDEVRLIFKKEDVNFQDNEKRTPLHAAAYLGDAEIIELL  
ILSGARVNAKDSKWLTPHRAVASCSEEAQVLLKHSADVNARDKNWQTPLHIAAANKAV  
KCAEALVPLLSNVNVS DRAGRTALHHAASFSGHGMVKLLLSRGANINAFDKKDRRAIHW  
AYMGHIEVVKLLVSHGA EVTCKDKSYTPLHAAASSGMI SVVKYLLDLGVDMPNAYGN  
TPLHVACYNGQDVVNELIDCGAIVNQKNEKGFTPLHFAAAS THGALCLELLVGNGADVN  
MKSKDGKTPLHMTALHGRFSRSQTIIQSGAVIDCEDKNGNTPLHIAARYGHELLINTLIT  
SGADTAKRGIHGMFPLHLAALSGFSDCCRKLSSGFDIDTPDDFGRTCLHAAAAGGNLEC  
LNLLNTGADFNKKDKFGRSPLHYAAANCNYQCLFALVGSGASVNDLDERGCTPLHYAAT  
SDTDGKCLEYLLRNDANPGIRDKQGYNAVHYSAA YGHRCLQLIASETPLDVLMTSGTD  
MLSDSDNRATISPLHLAAYHGHQALEVLVQSLLDLVRNSSGRTPLDLAAFKGHVECVD  
VLINQGASILVKDYILKRTPIHAAATNGHSECLRLLIGNAEPQNAVDIQDGNGQTPLMLS  
VLNGHTDCVYSLLNKGANVDAKDKWGR TALHRGAVTGHEECVDALLQHGA KCLLRDSRGR  
TPIHLSAACGHIGVLGALLQSAASMDANPATADNHGYTALHWACYNGHETCVELLLEQEV  
FQKTEGNAFSP LHC AVINDNEGAAEMLIDTLGASIVNATDSKGRTPHAAAFTDHVECLQ  
LLLSHNAQVNSVDSTGKTPLMMAAENGQTNTVEMLVSSASAELTLQDNSKNTALHLACSK  
GHETSALLILEKITDRNLINATNAALQTPLHVAARNGLTMVVQELLGKGASVLAVDENG  
TPALACAPNKDVADCLALILATMMPVSSSSPLSSLTFNAINRYTNTSKTVSFEALPIMRN  
EPSSYCSFNNIGGEQEYLYTDVDELNDS DSETY

>sp|Q9ULJ7|ANR50\_HUMAN Ankyrin repeat domain-containing protein 50 OS=Homo sapiens  
GN=ANKRD50 PE=1 SV=4

MTNPWEEKVCKMAQTSLLQGKQFYCREWVFHKLQHCLQEKSNCNSAVNAPSLVMNSGNN  
ASGVSGKGAAGVLLVGGPGSGKTALCTELLWPSSPASLQRGLHRQALAFHFCKAQSDT  
LCVGGFIRGLVAQICRSGLLQGYEDKLRDPAVQSLLQPGECERNPAEAFKRCVLLPLLGM  
KPPQQSLYLLVDSVDEGCNITEGEQTSTSLSGTVAALLAGHHEFFPPWLLLLCSARKQSK  
AVTKMFTGFRKISLDDLKAYIVKDVQQYILHRLDQEEALRQHLLTKETAEMLNQLHIKSS  
GCFLYLERVLDGVVENFIMLREIRDIPGTNLGLYLWLCQRLFVRKQFAKVQPIILNVILAA  
CRPLTITELYHAVWTKNMSLTLEDFQRKLDILSKLLVDGLGNTKILFHYSFAEWLLDVKH  
CTQKYLCNAAEGHRMLAMSYTCQAKNLTPEAQEFALHLINSLQLETAELALWMIWNGT  
PVRDSLSTLIPKEQEVLLQLVKAGAHVNSEDDRTSCIVRQALEREDSIRTLLDNGASVNQ  
CDSNGRTLLANAAYSGSLDVVNLVSRGADLEIEDAHGHTPLTLAARQGTKVVNCLIGC  
GANINHTDQDGWTALRSAAWGGHTEVVSAALLYAGVKVDCADADSRTALRAAAWGGHEDIV  
LNLQHGAEVNKADNEGRTALIAAAYMGHREIVEHLLDHGAEVNHEDVDGRTALSVAALC  
VPASKGHASVVSLLIDRGAEVDHCDKDGMTPLLVAAYEGHVDVVDLLEGGADV DHTDNN  
GRTPLLAAASMGHASVNTLLFWGAAVDSIDSEGRTVLSIASAQGNVEVVRTLLDRGLDE  
NHRDDAGWTPLMHAAFEHRLICEALIEQGARTNEIDNDGRIPFILASQEGHYDCVQILL  
ENKSNIDQRGYDGRNALRVAALEGHRDIVELLFSHGADVNCCKDADGRPTLYILALENQLT  
MAEYFLENGANVEASDAEGRTALHVSQWQGHMEMVQVLIAYHADVNAADNEKRSALQSAA  
WQGHVKVQVLLIEHGAVVDHTCNQGATALCIAAQEGHIDVVQVLEHGADPNHADQFGRT  
AMRVAANKGHSQIIKLEKYGASSLNGCSPSPVHTMEQKPLQSLSSKVQSLTIKSNSSGS  
TGGGDMQPSLRGLPNGPTHAFSSPSESPDSTVDRQSSLSNNSLSSKNSSLRRTSSSTAT  
AQTPIDSFHNLSFTEQIQHSLPRSRQSIIVSPSSTTQSLGQSHNSPSSEFEWSQVKP  
SLKSTKASKGGKSENSAKSGSAGKKAKQSNSSQPKVLEYEMTQFDRRGPIAKSGTAAPPK  
QMPAESQCKIMIPSAQQEIGRSQQQLIHQQSGEQKKRNGIMTNPNYHLQSNQVFLGRVS  
VPRTMQDRGHQEVLEGPSSSETELSLKQALKLQIEGSDPSFNKKETPL

>sp|B4E2M5|ANKR66\_HUMAN Ankyrin repeat domain-containing protein 66 OS=Homo sapiens  
GN=ANKRD66 PE=2 SV=2

MDTTLRMVRTACQHRAPQISHKTGCSHISMHSPGGLTTTKMAGPLPRVSDSLFSAMELAK  
MSDMTKLHQAAGDYSLVKKILKGLCDPNYKDVDWDRTPLHWAAIKGQMEVIRLLIE  
YGARPCLVTSVGWTPAHFAAEAGHLNILKTLHALHAAIDAPDFGDTPKRIAQIYGQKAC  
VAFLEKAEPECQDHRCAAQQKGLPLDERDEDWDAKKRELELSLPSLNQNMKNKKSRRGP  
TRPSNTKGRRV

>sp|076027|ANXA9\_HUMAN Annexin A9 OS=Homo sapiens GN=ANXA9 PE=1 SV=3

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RSAIVDVLTNRSREQRLISRNFQERTQQDLMKSLQAALSGNLERIVMALLQPTAQFDAQ  
ELRTALKASDSADVVAIEILATRTPPQLQECLAVYKHNQVEAVDDITSETSGILQDLLL  
ALAKGGRDSYSGIIDYNLAEQDVQALQRAEGPSREETWVPVFTQRNPEHLIRVFDQYQRS  
TGQEELEAVQNRHFHGAQVALLGLASVIKNTPLYFADKLHQALQETEPNYQVLIRILISR  
CETDLLSIRAEFRKKFGKSLYSSLQDAVKGDCQSALLALCRAEDM

>sp|P19801|AOC1\_HUMAN Amiloride-sensitive amine oxidase [copper-containing] OS=Homo  
sapiens GN=AOC1 PE=1 SV=4

MPALGWAVAAILMLQTAMAEPSPGTLPRKAGVFSDLNQELKAVHSFLWSKKELRLQPSS  
TTTMAKNTVFLIEMLLPKKYHVLRFLLDKGERHPVREARAVIFFGDQEHPNVTEFAVGPLP  
GPCYMRALSPRPGYQSSWASRPISTA EYALLYHTLQEATKPLHQFFLNTTGFSFQDCHDR  
CLAFTDVAPRGVASGQRRSWLIIQRYVEGYFLHPTGLELLVDHGSTDAGHWAVEQVWYNG



KFYGSPEELARKYADGEVDVVVLEDPLPGGKGHDSTEEPPLFSSHKPRGDFPSPIHVS  
GPLRLVQPHGPRFRLEGNALYGGWSFAFRLRSSSGLQVLNVHFGGERIAYEVSQEAVALY  
GHTPAGMQTKYLDVWGVLGSVTHELAPGIDCPETATFLDTFHYYDADDPVHYPRALCLFE  
MPTGVPLRRHFNSNFKGGNFYAGLKGQVLVLRRTSTVYNYDYIWDFIFYPNGVMEAKMH  
ATGYVHATFYTP EGLRHGTRLHTHLIGNIHTLVHYRVDLDVAGTKNSFQTLQMKLENIT  
NPWSPRHRVVQPTLEQTQYSWERQAAFRFKRKLPKYLLFTSPQENPWGHKRTYRLQIHSM  
ADQVLPPGWQEEQAITWARYPLAVTKYRESELCSSEIYHQNDPWHPPVVFQFLHNNENI  
ENEDLVAWVTVGFLHIPHSEDIPNTATPGNSVGFLLRPFNFPEPDSLASRDTVIVWPRD  
NGPNYVQRWIPEDRDCSMPPPFYNGTYRPV

>sp|075106|AOC2\_HUMAN Retina-specific copper amine oxidase OS=Homo sapiens GN=AOC2 PE=1 SV=2

MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGSQSLFADLS  
REELTAVMRFLTQRLGPGLVDAQAQPSDNCIFSVELQLPPKAAALAHDRGSPPPAREA  
LAIVLFGGQPQPNVSELVVGPLPHPSYMRDVTVERHGGPLPYHRRPVLRAEFTQMWRHLK  
EVELPKAPIFLSSTFNNGSTLAHVHATPRGLRSGDRATWMALYHNISGVGLFLHPVGLE  
LLLDHRALDPAHWTVQQVFYLGHYYADLGQLEREFKSGRLEVVRVPLPPNGASSLRSRN  
SPGPLPPLQFSPQGSQYSVQGNLVSSLSWSTFGHGVFSGLRIFDVRVQGERIAYEVSQ  
ECVSIYGADSPKTMTRYLDSSFGLRNSRGLVRGVDCPYQATMVDIHILVGKAVQLLP  
GAVCVFEEAQLPLRRHHNYLQNHFYGGLASSALVVRSSVSGNYDYIWDFVLYPNGALE  
GRVHATGYINTAFLKGGEGLLFGNRVGERVLGTVHTAHFHKLDLDVAGLKNWVVAEDV  
VFKPVAAPWNPEHWLQRPQLTRQVLGKEDLTAFSLGSPLPRYLILASNQTNAGHQRGYR  
IQIHSPLGIHIPLESDMERALSWGRYQLVVTQRKEEESQSSSIYHQNDIWTPTVTFADFI  
NNETLLGEDLVAWVTASFLHIPHAEDIPNTVTLGNRVGFLLRPYNFFDEDPISFSPGSVY  
FEKGQDAGLCSINPVACLPDLAACVPDLPPFSYHGF

>sp|Q16853|AOC3\_HUMAN Membrane primary amine oxidase OS=Homo sapiens GN=AOC3 PE=1 SV=3

MNQKTILVLLILAVITIFALVCVLLVGRGGDGGEPSQLPHCPSVSPSAQPWTHPGSQSLF  
ADLSREELTAVMRFLTQRLGPGLVDAQAQPSDNCVFSVELQLPPKAAALAHDRGSPPP  
AREALAIVFFGRQPQPNVSELVVGPLPHPSYMRDVTVERHGGPLPYHRRPVLFQEYLDID  
QMIFNRELPAQAGLLHHCCFYKHRGRNLVTMTAPRGLQSGDRATWFLYNNISGAGFFL  
HHVGLELLVNHKALDPAWWTIQKVIFYQGRYDLSLAQLEAQFEAGLVNVVLIPDNGTGGSW  
SLKSPVPPGPAPPLQFYFQGPFRFSVQGSRVASSLWTFSGLGAFGSPRIFDVRVQGERLV  
YEISLQEALAIYGGNSPAAMTTRYVDGGFGMGKYTTPLTRGVDCPYLATYVDWHFLLESQ  
APKTIRDAFCVFEQNQGLPLRRHSDLYSHYFGGLAETVLVVRSMSTLLNYDYVWDTVFH  
PSGAIEIRFYATGYISSAFLFGATGKYGNQVSEHTLGTVHTSAHFKVDLDVAGLENWVW  
AEDMVFPMAVPWSPEHQLQRLQVTRKLEEMEEQAAFLVGSATPRYLILASNHSNKWGHP  
RGYRIQMLSFAGEPLPQNSSMARGFSWERYQLAVTQRKEEEPSSSVFNQNDPWAPTVD  
SDFINNETIAGKDLVAWVTAGFLHIPHAEDIPNTVTVGNVGFFLRPNFFDEDPISFYSA  
DSIYFRGDQDAGACEVNPLACLPQAAACAPDLPAFSGGFSHN

>sp|Q06278|AOXA\_HUMAN Aldehyde oxidase OS=Homo sapiens GN=AOX1 PE=1 SV=2

MDRASELLFYVNGRKVIEKNVDPETMLLPYLKKLRLTGTYKCGGGGCGACTVMISRYN  
PITKRIRHHPANACLIPICSLYGAAVTTVEGIGSTHTRIHPVQERIAKCHGTQCGFCTPG  
MVMSIYTLLRNHPEPTLDQLTDALGGNLCRCTGYRPIIDACKTFCKTSGCCQSKENGVC  
LDQGINGLPEFEEGSKTSPKLFEEEEFLPDPTQELIFPELMIMAEKQSQRTRVFGSER  
MMWFSPVTLKELLEFKFKYPQAPVIMGNTSVGPEVKFKGVFHPVISPDRIEELSVDNHA

YNGLTGAGLSLAQVKDILADVQKLPEEKTQMYHALLKHLGTLAGSQIRNMASLGGHI  
SRHPDSDLNPILAVGNCTLNLLSKEGKRQIPLNEQFLSKCPNADLKPQEILVSVNIPYSR  
KWEFVSAFRQAQRQENALAIVNSGMRVFFGEGDGIIRELCISYGGVGPATICAKNSCQKL  
IGRHWNEQMLDIACRLILNEVSLLGSAPGGKVEFKRTLIIISFLKFYLEVSQILKKMDPV  
HYPSLADKYESALEDLHSHHCSTLKYQNIGPKQHPEDPIGHPIMHLSGVKHATGEAIYC  
DDMPLVDQELFLTFTVTSRAHAKIVSIDLSEALSMPGVVDIMTAEHLSDVNSFCFFTEAE  
KFLATDKVFCVQQLVCAVLADSEVQAKRAAKRVKIVYQDLEPLILTIEESIQHNSSEFKPE  
RKLEYGNVDEAFKVVDQILEGEIHMGGQEHFYMETQSMLVVPKGEDQEMDVYVSTQFPKY  
IQDIVASTLKLPAKVMCHVRRVGGAFGGKVLKTGIIAAVTAFANKHGRAVRCVLERGE  
DMLITGGRHPYLKGYKAGFMNDGRILALDMEHYSNAGASLDESFLVIEMGLLKMDNAYKF  
PNLRCRGWACRTNLPNTAFRGFGFPQAALITESCITEVAAKCGLSPEKVRINMYKEID  
QTPYKQEINAKNLIQCWRECMAMSSYSLRKVAVEKFNAENYWKKGGLAMVPLKFPVGLGS  
RAAGQAAALVHIYLDGSLVLTHTGGIEMGGVHTKMIQVVSRELMPMSNVHLRGTSTETV  
PNANISGGSVVADNLGLAVKDACQTLLKRLEPIISKNPKGTWKDWAQTADESINLSAVG  
YFRGYESDMNWEKGEGQPFYFYGAACSEVEIDCLTGDHKNIRTDIVMDVGCSINPAID  
IGQIEGAFIQGMGLYTIELNYSPPQILHTRGPDQYKIPAICDMPTELHIALPPSQNSN  
TLYSSKGLGESGVFLGCSVFFAIHDAVSAARQERGLHGPLTLNSPLTPEKIRMACEKFT  
KMIPRDEPGSYVPWNVPI

>sp|Q96PC3|AP1S3\_HUMAN AP-1 complex subunit sigma-3 OS=Homo sapiens GN=AP1S3 PE=1 SV=1  
MIHFILLFSRQGLRLQKWYITLPDKERKKITREIVQIILSRGHRTSSFVDWKELKLVYK  
RYASLYFCCAIEQNELLTLEIVHRYVELLDKYFGNVCELDIIFNFEKAYFILDEFIIG  
GEIQETSKKIAVKAIEDSDMLQEVSTVSQTMGER

>sp|P02649|APOE\_HUMAN Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1  
MKVLWAALLVTFLAGCQAKVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQT  
LSEQVQEELLSSQVTQELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQA  
RLGADMEDVCGRLVQYRGEVQAMLGQSTEELRVRLASHLRKLKRLLRDADDLQKRLAVY  
QAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSAGQPLQERAQAWGERLRARMEEMG  
SRTRDRLDEVKEQVAEVRAKLEEQAQIRLQAEAFQARLKSWEPLVEDMQRQWAGLVEK  
VQAAVGTSAAPVPSDNH

>sp|Q9BQE5|APOL2\_HUMAN Apolipoprotein L2 OS=Homo sapiens GN=APOL2 PE=1 SV=1  
MNPESSIFIEDYLKYFQDQVSRENLLQLLTDDEAWNGFVAAAELPRDEADELRKALNKLA  
SHVMKDKNRHDKDQQRHWFLEKFPRLKRELEDHIRKLALAEVEQVHRGTTIANVVS  
NSVGTTSGLTLLGLGLAPFTEGISFVLLDTGMGLGAAAAGITCSVVELVNKLARAQ  
ARNLDQSGTNAVAKMKEFVGGNTPNVLTLDNWDYQVTQGIGRNIRAIRRANPQLGAYA  
PPPHIIGRISAEGGEQVERVVEGPAQAMSRGTMIVGAATGGILLLLDVVSLAYESKHILLE  
GAKSESAEELKKRAQELEGKLNFLTKIHEMLQPGQDQ

>sp|O95445|APOM\_HUMAN Apolipoprotein M OS=Homo sapiens GN=APOM PE=1 SV=2  
MFHQIWAALLYFYGIILNSIYQCPEHSQTLTLGVDGKEFPEVHLGQWYFIAGAAPTKEEL  
ATFDPVDNIVFNMAAGSAPMQLHLRATIRMKDGLCVPRKIYHLTEGSTDLRTEGRPDMK  
TELFSSSCPGGIMLNETGQGYQRFLYNRSPHPPEKCVVEFKSLTSCLDKAFLLTPRNQ  
EACELSNN

>sp|F7VJQ1|APRIO\_HUMAN Alternative prion protein OS=Homo sapiens GN=PRNP PE=1 SV=1  
MEHWGQPIPGAGQPWRQPLPTSGRWLGAASWWLGAASWWLGAAPWWLGTASWWLWG  
SRRWHPQSVEQAE

>sp|Q53RT3|APRV1\_HUMAN Retroviral-like aspartic protease 1 OS=Homo sapiens GN=ASPRV1 PE=1 SV=1

MGSPGASLGIKKALQSEQATALPASAPAVSQPTAPAPSCLPKAGQVIPTLLREAPFSSVI  
APTLLCGFLFLAWAAEVEPESSRMAGSGARSEEGRRQHAFVPEPFDGANVVPNLWLHSF  
EVINDLNHWDHITKLRFLKESLRGEALGVYNRLSPQDQGDYGTVKEALLKAFGVPGAAPS  
HLPKEIVFANSMGKGYLLKGIGKVPVRFLVDSGAQVSVVHPNLWEEVTDGDLDTLQPF  
NVVKVANGAEMKILGVWDTAVSLGKLKKAQFLVANASAEAIIGTDVLQDHNAILD  
FEHRTCTLKGGKFRLLPVGGSLEDEFDLELIEEDPSSEEGRQELSH

>sp|O60306|AQR\_HUMAN Intron-binding protein aquarius OS=Homo sapiens GN=AQR PE=1 SV=4

MAAPAQPKKIVAPTVSQINAEFVTQLACKYWAPHIKKSPFDIKVIEDIYEKEIVKSRFA  
IRKIMLLEFSQYLENYLWMNYSPEVSSKAYLMSICCMVNEKFRENVPAWEIFKKKPDHFP  
FFFKHILKAALAEDEGFSLEHTVLLLFLDHCFSNLEVDLIRSQQQLISLPMWMLQL  
ARLELELKKTPLRKFWNLIKKNDKMDPEAREQAYQERRFSLQLIKFISVLKSVPLSE  
PVTMDKVHYCERFIELMIDDLEALLPTRRWFNTILDDSHLLVHCYLSNLVRREEDGHLFSQ  
LLDMLKFYTGFEINDQTGNALTENEMTTIHYDRITSLQRAAFAHFPELYDFALSNAEVD  
TRESLVKFFGPLSSNTLHQVASYLCLLPTLPKNEDTTFDKEFLLELLVSRHERRISQIQQ  
LNQMPLYPTEKIIWDENIVPTEYSGEGCLALPKNLQFLTLHDYLLRNFNLRLESTYE  
IRQDIEDSVSRMKPWQSEYGGVFGGWARMAQPIVAFTVVEVAKPNIGENWPTRVRADVT  
INLNVRDHIKDEWGLRKHDVCFLITVRPTKPYGTFDRRRPFIEQVGLVYVRGCEIQGM  
LDDKGRVIEDGPEPRPNLRGESRTFRVFLDPNQYQQDMTNTIQNGAEDVYETFNIIMRRK  
PKENNFKAVLETIRNLMNTDCVVPDWLHDIILGYGDPSSAHYSKMPNQIATLDFNDTFLS  
IEHLKASFPGHNVKVTVEDPALQIPFRITFPVRSGKGKKRKDADVEDEDTEEAKTLIVE  
PHVIPNRGPYPYNQPKRNTIQFTHTQIEAIRAGMQPLTMVVGPPGTGKTDVAVQIISNI  
YHNFPEQRTLIVTHSNQALNQLFEKIMALDIDERHLLRLGHGEELETEKDFSRYGRVNY  
VLARRIELLEEVKRLQKSLGVPGDASYTCETAGYFFLYQVMSRWEYISKVKNGSTLPD  
VTEVSTFFPFHEYFANAPQPIFKGRSYEEDMEIAEGCFRHIKKIFTQLEEFRASELLRSG  
LDRSKYLLVKEAKIIAMTCTHAALKRHDLVKLGFKYDNILMEEAAQILEIETFIPLLLQN  
PQDGFSLRKLKRWIMIGDHHQLPPVIKNMAFQKYSNMEQSLFTRFVRVGVPTVDLDAQGRAR  
ASLCNLYNWRYKNLGNLPHVQLLPEFSTANAGLLYDFQLINVEDFQVGGESEPNPYFYQN  
LGEAEYVVALFMYMCLLGYPADKISILTTYNGQKHLIRDIINRRCGNNPLIGRPNKVTTV  
DRFQGGQNDYIILLSLVRTRAVGHRLDVRRLVVAMSRARLGLYIFARVSLFQNCFELTPAF  
SQLTARPLHLHIIPTEFPPTTRKNGERPSHEVQIIKNMPQMANFVYNMYMHLIQTTHHYH  
QTLLQLPPAMVEEGEEVQNQETELETEEEAMTVQADIIPSPTDTSRQETPAFQTDTPS  
ETGATSTPEAIPALSETTPTTVGAVSAPAEANTPQDATSAPEETK

>sp|A6NJG6|ARGFX\_HUMAN Arginine-fifty homeobox OS=Homo sapiens GN=ARGFX PE=2 SV=1

MRNRMAPENPQDPFINRNYSNMKVIPPQDPASPSFTLLSKLECSGTVSAYCSLNLPGST  
DPPTSASRVAATTAIRRRHKERTSFTHQQYEELEALFSQTMFPDRNLQEKLALRLDLPES  
TVKVWFRNRRFKLKKQQQQSAKQRNQLPSKKNVPTSPRTSPSPYAFSPVISDFYSSLP  
SQPLDSPNWAWNSTFTESSTSDFMQDTQWERLVASVPALYSDAYDIFQIIELYNLPDEN  
EISSSFHCLYQYLSPTKYQVGGQGSSLSIFAGPAVGLSPAQTWPNMTSQAFEAYSLTDS  
LEFQKTSNMVDLGFL

>sp|P05089|ARGI1\_HUMAN Arginase-1 OS=Homo sapiens GN=ARG1 PE=1 SV=2

MSAKSRTIGIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECVDKDYGDLPFADIPN  
DSPFQIVKNPRSVGKASEQLAGKVAEVKKNGRISLVLGGDHSIAIGSISGHARVHPDLGV

IWVDAHTDINTPLTTTSGNLHGQPVSFLLKELKGKIPDVPGFSWVTPCISAKDIVYIGLR  
DVPDGEHYILKTLGIKYFSMTEVDRLGIGKVMEETLSYLLGRKKRPIHLSFDVDGLDPSF  
TPATGTPVVGGLTYREGLYITEEIIYKTGLLSGLDIMEVNPSLGKTPEEVTRTVNTAVAIT  
LACFGLAREGNHKPIDYLNPPK

>sp|Q02040|AK17A\_HUMAN A-kinase anchor protein 17A OS=Homo sapiens GN=AKAP17A PE=1 SV=2

MAAATIVHDTSEAVELCPAYGLYLKPITKMTISVALPQLKQPGKSISNWEVMERLKG MVQ  
NHQFSTLRISKSTMDFIRFEGEVENKSLVKSFLACLDGKTIKLSGFS DILKVRAAEFKID  
FPTRHDWDSFFRDAKDMNETLPGERPDTIHLEGLPCKWFALKESGSEKPS EDVLVKVFEK  
FGEIRNVDIPMLDPYREEMTGRNFHTFSFGGHLNFEAYVQYREYMGFIQAMSALRGMKLM  
YKGEDGKAVACNIKVSFSTKHLSDASIKKRQLERQKLQELEQQREEQKRREKEAEERQR  
AEERKQKELEELERERKREEKLKREKQKRDRELRRNQKLEKLQAEQKQLQEKIKLEE  
RKLLLAQRNLQSIRLIAELLSRAKAVKLREQEKEEKLRLQQQEERRRLQEAELRRVEEE  
KERALGLQRKERELRERLLSILLSKKPDDSHTHDELGVAHADLLQPVLDILQTVSSGCVS  
ATTLHPLGGQPPAGAPKESPAHPEADGAPKSVNGSVAEEAPCKEVQSSCRVVPEDGSPEK  
RCPGGVLSICIPDNNQPKGIPACEQNVSRKDRSEQDKCNREPSKGRGRATGDGLADRHK  
RERSRARRASSREDGRPRKERRPHKKHAYKDDSPRRRSTSPDHTRSRRSHSKDRHRRERS  
RERRGSASRKHSRHHRRSERSRSRSPSRHRSTWNR

>sp|O60218|AK1BA\_HUMAN Aldo-keto reductase family 1 member B10 OS=Homo sapiens GN=AKR1B10  
PE=1 SV=2

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQ  
EKIQEKAVKREDLFIVSKLWPTFFERPLVRKA FEKTLKDLKLSYLDVYLHWPQGFKSGD  
DLFPKDDKGNAIGGKATFLDAWEAMEELVDEGLVKALGVSNF SHFQIEKLLNKPGLKYKP  
VTNQVECHPYLTQEKL IQYCHSKGITVTAYSPLGSPDRPWAKPEDPSLLEDPKIKEIAAK  
HKKTAAQVLIRFHIQRNVIVIPKSVTPARIVENIQVDFKLSDEEMATILSFNRNWRACN  
VLQSSHLEDYPFNAEY

>sp|P17516|AK1C4\_HUMAN Aldo-keto reductase family 1 member C4 OS=Homo sapiens GN=AKR1C4  
PE=1 SV=3

MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYNNEEQ  
VGLAIRSKIADGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFP  
ALKPGETPLPKDENGKVI FDTVDLSATWEVMEKCKDAGLAKSIGVSNFNCRQLEMILNKP  
GLKYKPV CNQVECHPYLNQSKLLDFCKSKDIVLVAHSALGTQRHKLWDPNSPVLLEDPV  
LCALAKKHQTPALIALRYQLQRGVVVLAKSYNEQRIRENIQVFEFQLTSEDMKVLDGLN  
RNYRYVVMDFLMDHPDYPFSDEY

>sp|Q5T1N1|AKND1\_HUMAN Protein AKNAD1 OS=Homo sapiens GN=AKNAD1 PE=2 SV=3

MDEADFSEHTTYKQEDLPYDGLSQIKIGNDYSFTSKKDGLEVLNQIIFIADDPQEKAMH  
SETCGNTAVTIPLGKITENAANKDEKEKQCTAALHIPANEGDASKSSISDILLHHSKE  
PFLRGQGIDCETLPEISNADSFEEEA IKSII SCYNKNSWPKEQTPELTDQLNPKRDGEN  
SNKPGSATTTEENTS DLEGPVAAGDSSHQENVNVLTKTKGPGDKQKSYQGQSPQKQKTEK  
ANSGNTFKYGGQGVHYQLPDFSKIAPVKIPKNKIINKPLAIKQASFSSKSRDKPTLVQ  
DSLETTPESENCEVQHQEKGKITEPSQQIQMEPIVHIHQELLTGIESEASLSKLSPTSQ  
KGTSSSSSYIFQKISQKQMCQKLKEQTDQLKTKVQEF SKRIKQDSPYHLQDKKL VLEKL  
QGHLELLEQNFLATKDKHLTLQQQVHKHESTIVGDFDPERKVEGEIFKLEMLLEDVKEKM  
DESKYTSAPSLPVSSPVTLDDLASTFSSLSNEIPKEHPGHPSPGRSGGSEVTGTPQGGP  
QEAPNEELCELAPQTYLNGHYGDAQAQNKPDQVAMRLSSNSGEDPNGTPRRQDCAEMTAP

SPSCAFCRRLLEWKQNEKKGHGRINCGRFSIVLHEKAPHSDSTPNSDTGHSFCSDSGTE  
MQSNKCQDCGTKIPTSRACRKEPTKEFHRYNTPGQYNSHNSKRGAFVQPHSLDESKNS  
SPSFLKPKRICSQRVNSKSFKEHEPTPGKKKLQAFMTYSSDPATPSPHFYSCRISGSKS  
LCDFDSTEEIKSEILNSALDHALRTATILKETTDQMIKTIAEDLAKAQRWRNRLKY

>sp|Q01432|AMPD3\_HUMAN AMP deaminase 3 OS=Homo sapiens GN=AMPD3 PE=1 SV=1

MPRQFPKLNISEVDEQVRLLAEKVFAKVLREEDSKDALSLFTVPEDCPIGQKEAKERELQ  
KELAEQKSVETAKRKSFKMIRSQSLSLQMPQQDWKGPPAASPAMSPPTPVVTGATSLP  
TPAPYAMPEFQRVITISGDYACAGITLEDYEQAASLAKALMIREKYARLAYHRFPRTSQY  
LGHPRADTAPPEEGLPDFHPPPLPQEDPYCLDDAPPNLDYLVMQGGILFVYDNKKMLEH  
QEPHSLPYPDLETYTVDMSHILALITDGPTKTYCHRLNFLESKFSLHEMLNEMSEFKEL  
KSNPHRDFYNVRKVDTHIAAACMNQKHLRFIKHTYQTEPDRTVAEKRGRKITLRQVFD  
GLHMDPYDLTVDSLVDHAGRQTFHRFDKFNKYNPVGASELRDLYLKTENYLGGEYFARM  
VKEVARELEESKYQYSEPRLSIYGRSPEEWPNLAYWFIQHKVYSPNMRWIIQVPRIYDIF  
RSKLLPNFGKMLENIFLPLFKATINPDHRELHLFLKYVTGFDSVDDSKHSDHMFSDK  
SPNPDVWTSEQNPPYSYLYMYANIMVLNNLRERGLSTFLFRPHCGEAGSITHLVSAF  
LTADNISHGLLLKKSPVLQYLYLAQIPIAMSPLSNNSLFLEYSKNPLREFLHKGLHVSL  
STDDPMQFHYTKEALMEEYAIAAQVWKLSTCDLCEIARNSVLQSGLSHQEKQKFLGQNY  
KEGPEGNDIRKTNVAQIRMAFRYETLCNELSFLSDAMKSEEITALTN

>sp|Q6UX39|AMTN\_HUMAN Amelotin OS=Homo sapiens GN=AMTN PE=1 SV=1

MRSTILLFCLLGSTRSLPQLKPALGLPPTKLAPDQGTLPNQQSNQVFPSSLIPLTQML  
TLGPDHLHLLNPAAGMTPGTQTHPLTLGGLNVQQQLHPHVLPFVFTQLGAQGTILSSEELP  
QIFTSIIHSLFPGGILPTSQAGANPDVQDGSLPAGGAGVNPATQGTPAGRLPTPSGTDD  
DFAVTPAGIQRSTHAIEEATTESANGIQ

>sp|Q86W34|AMZ2\_HUMAN Archaeometzincin-2 OS=Homo sapiens GN=AMZ2 PE=1 SV=2

MQIIRHSEQTLKTALISKNPVLVSQYEKLNAGEQRLMNEAFQPASDLFGPITLHSPSDWI  
TSHPEAPQDFEQFSDPYRKTPSPNKRSIYIQSIGSLGNTRIISEEYIKWLTGYCKAYFY  
GLRVKLLPEVPVSVTRCSFRVNENTHNLQIHAGDILKFLKKKPEDAFVVGITMIDLYP  
RDSWNFVFGQASLTDGVGIFSFARYGSDFYSMHYKGKVKKLKKTSSSDYSIFDNYIPEI  
TSVLLLRCKTLTHEIGHIFGLRHCQWLACLMQGSNHLEADRRLNLCPICLHKLQCAV  
GFSIVERYKALVRWIDDESDTPGATPEHSHEDNGNLPKPVEAFKEWKEWIIKCLAVLQK

>sp|A5PLL1|AN34B\_HUMAN Ankyrin repeat domain-containing protein 34B OS=Homo sapiens  
GN=ANKRD34B PE=2 SV=3

MDEGMEISSEGNSLIKAVHQSRLRLTRLLEGGAYINESNDRGETPLMIACKTKHVDHQS  
VSKAKMVKYLLENNADPNIQDKSGKTALMHACLEKAGPEVVSLLKSGADLSLDHSSYS  
ALVYAINSEDTETLVLLSACKAKGKEVIIITAKLPCGKHTTKQYLNMPVVDIDGCHSP  
ATCTTPSEIDIKTASSPLSHSSETELTLFGFKDLELAGSNDTWDPGSPVRKPALAPKGP  
KLPHAPPWVKSPPLMHQNRVASLQEELQDITPEEELS YKTNGLALSKRFITRHQSIDVK  
DTAHLRLAFDQASSRKMSYDEINCQSYLSEGNQQCIEVPVDQDPDSNQTIFASTLRSIVQ  
KRNLGANHYSSDSQLSAGLTPPTSEDGKALIGKKKILSPSPSQLSESKELLENIPPGPLS  
RRNHAVLERRSGAFPLDHSVTQTRQGFLPPLNVNSHPPISDINVNNKICSLSCGQKVL  
MPTVPIFPKEFKSKKMLLRRQSLQTEQIKQLVNF

>sp|P10275|ANDR\_HUMAN Androgen receptor OS=Homo sapiens GN=AR PE=1 SV=3

MEVQLGLGRVYPRPPSKTYRGAQNLFQSVREVIQNPGRHPEAASAAPP GASLLLLQQQ  
QQQQQQQQQQQQQQQQQQQETS PRQQQQQQGEDGSPQAHRRGPTGYLVLDDEEQPSQPQ

SALECHPERGCVPEPGAAVAASKGLPQQLPAPDDEDDSAAPSTLSLLGPTFPGLSSCSAD  
LKDILSEASTMQLLQQQQQEAIVSEGSSSGRAREASGAPTSSKDNYLGGTSTISDNAKELC  
KAVSVSMGLGVEALEHLSPEGQLRGDCMYAPLLGVPPAVRPTPCAPLAECKGSLLDDSAG  
KSTEDTAEYSPFKGGYTKGLEGESLGCSSAAAGSSGTLELPSTLSLYKSGALDEAAAYQ  
SRDYNNFPLALAGPPPPPPPHPHARIKENPLDYGSAAAAAAQCRYGDLASLHGAGAA  
GPGSGSPSAAASSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGEAGAVAP  
YGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMRL  
ETARDHVLPIIDYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYL CASRN  
DCTIDKFRRKNPCSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTTEETTQKL  
TVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDFAALLSSLNELGERQLVHVVKWA  
KALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLYFAPDLVFNEYRMHKS  
MYSQCVMRHLSEQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDEL RMNYIKELD  
RIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEII  
SVQVPKILSGKVKPIYFHTQ

>sp|Q9NUS5|AP5S1\_HUMAN AP-5 complex subunit sigma-1 OS=Homo sapiens GN=AP5S1 PE=1 SV=1  
MVHAFLIHTLRAPNTEDTGLCRVLYSCVFGAEKSPDDPRPHGAERDRLLRKEQILAVARQ  
VESMCRLQQQASGRPPMDLQPQSDEQVPLHEAPRGAFRLAAENPFQEPRTVVWLGVL SL  
GFALVLDAHENLLAEGTLRLRLTRLLLDHLRL LAPSTSLLLRADRIEGLTRFLPHGQLL  
FLNDQFVQGLEKEFSAAWPR

>sp|O96018|APBA3\_HUMAN Amyloid beta A4 precursor protein-binding family A member 3 OS=Homo  
sapiens GN=APBA3 PE=1 SV=1  
MDFPTISRSPSGPPAMDLEGPRDILVPSEDLTPDSQWDPMPGGPGSLSRMELDESSLQEL  
VQQFEALPGDLVGPSPGGAPCPHLIATGHGLASQEIADAHGLLSAEAGRDDLGLLHCEE  
CPPSQTGPEEPLEPAPRLLQPPEDPDESDSPEWVEGASAEQEGSRSSSSSPEPWLETVP  
LVTPEEP PAGAQSPE TLASYPAPQEVPGPCDHEDLLDGVIFGARYLGSTQLV SERNPPTS  
TRMAQAREAMDRVKAPDGETQPMTEVDL FVSTKRIKVL TADSQEAMMDHALHTISYTADI  
GCVLVL MARRRLARRPAPQDHGRRLYKMLCHVFYAEDAQLIAQAIGQAF AAAYSQFLRES  
GIDPSQVGVHPSPGACHLHNGDL DHFSNSDNCREVHLEKRRGEGLGVALVESGWGSLPT  
AVIANLLHGGPAERSGALSIGDRLTAINGTSLVGLPLAACQAAVRETKSQT SVTLSIVHC  
PPVTTAI IHRPHAREQLGFCVEDGIICSLLRGGIAERGGIRVGHRIIEINGQSVVATPHA  
RIIELL TEAYGEVHIKTMPAATYRLLTGQEQPVYL

>sp|O00213|APBB1\_HUMAN Amyloid beta A4 precursor protein-binding family B member 1 OS=Homo  
sapiens GN=APBB1 PE=1 SV=2  
MSVPSSLSQSAINANSHGGPALSLPLPLHAAHNQLLNAKLQATAVGPKDLRSAMGEGGGP  
EPGPANAKWLKEGQNQLRRAATAHRDQNRNVTLTAAEASQEPEMAPLGP KGLIHL YSEL  
ELSAHNAANRGLRGPGLIISTQE QGPDEGEEKAAGEAEEEEEDDDDEEEEDLSSPPGLP  
EPLESVEAPRPQALTDGPREHKSASLLFGMRNSAASDEDSWATLSQGSPSYGSPEDT  
DSFWNPNAFETSDLPAGWMRVQDTSGTYYYHIPTGTTQWEPPGRASPSQGSSPQEE SQL  
TWTGFAHGE GFEDGEFWKDEPSDEAPMELGLKEPEEGTLTFPAQSLSPEPLPQEE EKLP  
RNTNPGIKCFAVRSLGWVEMTEELAPGRSSVAVNNCIRQLSYHKNNLHDPMSGGWGEGK  
DLLLQLEDET LKLVEPQSQALLHAQPIISIRVWGVGRDSGRERDFAYVARDKLTQMLKCH  
VFRCEAPAKNIATSLHEICSKIMAERRNARCLVNGLSLDH SKLVDPVFQVEFPAPKNELV  
QKFQVYYLGNVPVAKPVGVDVINGALESVLSSSSREQWTPSHVSVAPATLTILHQQTEAV  
LGECRVRFLSFLAVGRDVHTFAFIMAAGPASFCCHMFWCEPNAASLSEAVQAACMLRYQK

CLDARSQASTSCLPAPPAESVARRVGWTVRRGVQSLWGSLKPKRLGAHTP

>sp|Q92870|APBB2\_HUMAN Amyloid beta A4 precursor protein-binding family B member 2 OS=Homo sapiens GN=APBB2 PE=1 SV=3

MSEVLPA DSGVDTLAVFMASGGTTDV TNRN SPATPPNTLNRSSH NELLNAEIKHTETKN  
STPPKCRKKYALTN IQAAMGLSDPAAQPLLNGS ANIKLVKNGENQLRKAAEQGQDPNK  
NLSPTAVINITSEKLEGKEPH PQDSSSCEILPSQPRRTKSFLNYYADLETSARELEQNRG  
NHHGTAE EKSQPVQGQASTIIIGNGDLLLQKPNRPQSSPEDGQVATVSSSPETKKDHPKTG  
AKTDCALHRIQNLAPSDEESSWTTLSQDSASPSSPDETDIWDHSFQTDPLPPGWKRVS  
DIAGTYWHIPTGTTQWERPV SIPADLQGSRKGSLSVTPSPTPEN EKQPWSDFAVLNGG  
KINS DIWKDLHAATVNPDP SLKEFEGATLRYASLKL RNAPHPDDDDSCS INSDPEAKCFA  
VRSLGWVEMAEDLAPGKSSAVNN CIRQLSYCKNDIRDTVGIWGE GKDMYLILENDMLS  
LVDPMDR SVLHSQPIVSIRVWGVGRDN GRDFAYVARDKDTRILKCHVFRCDTPAKAIATS  
LHEICSKIMAERKNAKALACSSLQERANVNLDVPLQVDFPTPKTELVQKFHVQYLGMLPV  
DKPVGMDILNSAIENLMTSSNKEDWLSVNMNVADATVTVISEKNEEEVLVECRVRFLSFM  
GVGKDVHTFAFIMDTGNQRFEC HVFWECPNAGNVSEAVQAACMLRYQKCLVARPPSQKVR  
PPPPPADSVTRRVTTNVKRGVLSLIDTLKQKRPVTEMP

>sp|095236|APOL3\_HUMAN Apolipoprotein L3 OS=Homo sapiens GN=APOL3 PE=1 SV=3

MGLGGWGWEASCFACLIRSCQVVTFTFPFGFQGISQLE NVSGYYADARLEV GSTQLR  
TAGSCSHSFKRSFLEKKRFTEEATKYFRERVSFVHLQILLTNNEAWKRFVTAAELPRDEA  
DALYEALKKLRTYAAIEDEYVQKDEQFREWFLKEFPQVKRKIQESIEKLRALANGIEEV  
HRGCTISNVVSSSTGAASGIMSLAGLV LAPFTAGTSLALTAAGVGLGAASAVTGITTSIV  
EHSYTSSAEAEASRLTATSIDRLKVFKEVMRDITPNLLSLLNNY EATQTIGSEIRAIRQ  
ARARARLPVTTWRISAGSGGAERTIAGTTRAVSRGARILSATTSGIFLALDVVNLVYES  
KHLHEGAKSASAEELRRQAQELEENLMELTQIYQRLNPCHTH

>sp|Q96P48|ARAP1\_HUMAN Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 1 OS=Homo sapiens GN=ARAP1 PE=1 SV=3

MAEAGDAALSVAEWLRALHLEQYTGLFEQHGLVWATECQGLSDTRLMDMGMLLP GHRRI  
LAGLLRAHTSPAPAPRPTPRPVMKRHIFRSPVPATPPEPLPTTTEDEGLPAAPP IPPR  
RSCLPPTCFTTTPSTAAPDPVLPLPAKRHLAELSVPPVPPRTGPPRLLVSLPTKEEESLL  
PSLSSPPQPQSEELSTLPQGPQPSPSPPCPEIPPKPVRLFPEFDDSDYDEVPEEGPG  
APARVMTKKEEPPSRVPRAVRVASLLSEGEELSGDDQGDEEEDHAYEGVPNGGWH TSS  
LSLSLPSTIAAPHPMDGPPGGSTPVPVIKAGWLDKNPPQGSYIYQKRWVR LDTDHLRYF  
DSNKDAYSKRFISVACISHVAAIGDQKFEVITNNRTFAFRAESDVERKEWMQALQQAMAE  
QRARARLSSAYLLGVPGSEQPDRAGSLELRGFKNKLYVAVVGDKVQLYKNLEEYHLGIGI  
TFIDMSVGNVKEVDRRSFDLTPYRIFSF SADSELEKEQWLEAMQGAIAEALSTSEVAER  
IWAAAPNRF CADCGAPQPDWASINLCVVICKRCAGEHRGLGAGVSKVRS LKMDRKVWTET  
LIELFLQLGNGAGNRFWAANVPPSEALQPSSSPSTRCHLEAKYREGKYRRYHPLFGNQE  
ELDKALCAAVTTTDLAETQALLGCGAGINCFSGDPEAPTPLALAEQAGQTLQMEFLRNNR  
TTEVPRLD SMKPLEKHYSVVLPTVSHSGFLYKTASAGKLLQDRRAREEFSRRWCVLGDGV  
LSYFENERAVTPNGEIRASEIVCLAVPPP DTHGFEHTFEVYTEGERLYLFGLES AEQAHE  
WVKCIAKAFVPLAEDLLARDFERLGR LPYKAGLSLQRAQEGWFSLSGSELRAVFPEGPC  
EEPLQLRKLQELS IQGDS ENQVLVVERRRTLYIQGERRLDFMGWLGAIQKAAASMGDTL  
SEQQLGSDIPVIVYRCVDYITQCGLTSEGIYRKCGQTSKTQRLLESRLRQDARSVHLKEG  
EQHVDDVSSALKRFLRDLPDGLFTRAQRLTWLEASEIEDEEEKVSR YRELLVRLPPVNRA

TVKALISHLYCVQCFSDTNQMNVHNLAIIVFGPTLFQTDGQDYKAGRVVEDLINHYVVVFS  
VDEEELRKQREEITAIVKMRVAGTASGTQHAGDFICTVYLEEKKAETEQHIKVPASMTAE  
ELTLEILDRRVNGIREKDYWTCFEVNEREEAERPLHFAEKVLPILHGLGTDShLVVKKHQ  
AMEAMLLYLASRVGDTKHGMMKFREDRSLGLGLPSGGFHDRYFILNSSCLRLYKEVRSQ  
RPWSGAPETSHRPEKEWPIKSLKVYLVGKKLRPPTCWGFTVVHETEKHEKQQWYLCCDT  
QMELREWFATFLFVQHDGLVWPSEPSRVSRAPPEVRLGSVSLIPLRGSENMRRSVAAFT  
ADPLSLLRNV

>sp|Q8WZ64|ARAP2\_HUMAN Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 2 OS=Homo sapiens GN=ARAP2 PE=1 SV=3

MSSVSEVNVDIKDFLMSINLEQYLLHFHESGFTTVKDCAAINDSLLQKIGISPTGHRRI  
LKQLQIILSKMQDIPIYANVHKTKNDDPSKDYHVPSSDQNICIELSNSGSVQTSSPQL  
ETVRKNLESDSASVERSQYPQSDDKLSPPKRDFPTAEPHLNLGSLNDSLFGSDNIKIES  
LITKKTVDHTVEEQTEKVKLITENLSKLPNADSECLSFVGCSTSGTNSGNGTNGLLEGS  
PPSPFFKFQGEMIVNDLYVPSSPILAPVRSRSLVSRPSRSLRHRPVPEIPGSTKGVS  
GSYFRERRNVATSTEKSVAWQNSNEENSSIFPYGETFLFQRLNSKKRSIKNEFLTQGE  
ALKGEAATATNSFIIKSSIIDNRKEKISEDKVEDIWIIPREDKNNFLIDTASESEYSTVEE  
CFQSLRRKNSKASKSRTQKALILDSVNRHSYPLSSTSGNADSSAVSSQAISPYACFYGAS  
AKKVKSGWLDKLSQPKRMFQKRWVKFDGLSISYNNNEKEMYSKGIIPLSAISTVRVQGD  
NKFVVTQTQRTFVFRVEKEEERNDWISILLNALKSQSLTSQSQAVVTPEKCGYLELRGYK  
AKIFTVLSGNSVWLCKNEQDFKSLGITIIPMNVANVKQVDRTVKQSFEIITPYRSFSFT  
AETEKEKQDWIEAVQQSIAETLSDYEAKEIWFNESNRSCADCKAPDPDASINLCVVIC  
KKCAGQHRS LGPKDSKVRSLKMDASIWSNELIELFIVIGNKRANDFWAGNLQKDEELHMD  
SPVEKRKNFITQKYKEGKFRKTLASLTKEELNKALCAAVKPDVLETMALLFSGADVMC  
ATGDPVHSTPYLLAKKAGQSLQMEFLYHNKFSDFPQHDHSEGVLSQESSQSTFLCDFLY  
QAPSAASKLSSEKLLLEETNKKWCVLEGGFLSYENDKSTTPNGTININEVICIAHKED  
FYLNTGPIFIFEIYLPSEVFLFGAETSQAQRKWTEAIAKHFVPLFAENLTEADYDLIGQ  
LFYKDCHALDQWRKGWFAMDKSSLHFCLQMGEVQGDRMHLRRLQELTISTMVQNGEKLDV  
LLLVEKGRTLYIHGHTKLDFTVWHTAIEKAAGTDGNALQDQQLSKNDVPIIVNSCIAFVT  
QYGLGCKYIYQKNGDPLHISELLESFKKDARSFKLRAGKHQLEDVTAVLKSFLSDIDDAL  
LTKELYPYWISALDTQDDKERIKKYGAFIRSLPGVNRATLAAIEHLYRVQKCSEINHMN  
AHNLALVFSSCLFQTKGQTSEENVIEDLINNYVEIFEVKEDQVKQMDIENSFITKWKDT  
QVSQAGDLLIEVYVERKEPDCSIIIRISPMEAELTNDILAIKNIIPTKGDIWATFEVI  
ENEELERPLHYKENVLEQVLRWSSLAEPGSAYLVVKRFLTADTIKHCSRSTLGSIKEGI  
LKIKEEPSKILSGNKQFQDRYFVLRDGFLLYKDVKSSKHDKMFSLSMKFYRGVKKMKP  
PTSWGLTAYSEKHHWHLCCDSSRTQTEWMTSIFIAQHEYDIWPPAGKERKRSITKNPKIG  
GLPLIPIQHEGNATLARKNIESARAELERLRLSEKCDKESVDSSLKERASMAHCHLEHKD  
DKLRNRPRKHRSFNCLEDETEPEAPLGQPKGHKGLKTLRKTEDRNSKATLDSHKLPSRVI  
EELNVVLQRSRTLPELQDEQILK

>sp|Q96IT6|ARAS1\_HUMAN Putative uncharacterized protein ARHGAP5-AS1 OS=Homo sapiens GN=ARHGAP5-AS1 PE=5 SV=1

MQAPDSVRSVKVEREAKTWIEKPRGAGLRVAQKTPVHATTSLTLGTVVHLAFIILP

>sp|P35626|ARBK2\_HUMAN Beta-adrenergic receptor kinase 2 OS=Homo sapiens GN=GRK3 PE=1 SV=2

MADLEAVLADVSYLMAMEKSKATPAARASKRIVLPEPSIRSVMQKYLAERNEITFDKIFN



QKIGFLLFKDFCLNEINEAVPQVKFYEEIKEYEKLDNEEDRLCRSRQIYDAYIMKELLSC  
SHPFSKQAVEHVQSHLSKKQVSTLTFQPYIEEICESLRGDIQKFMESDKFTRFCQWKNV  
ELNIHSLTMNEFSVHRIIGRGGFGEVYGCRKADTGKMYAMKCLDKKRIKMKQGETLALNER  
IMLSLVSTGDCPFIVCMTYAFHTPDKLCFILDLMNGGDLHYHLSQHGVFSEKEMRFYATE  
IILGLEHMHNRFFVYRDLKPANILLDEHGHARISDLGLACDFSKKKPHASVGTGYMAPE  
VLQKGTAYDSSADWFSLGCMLFKLLRGHSPFRQHKTCDKHEIDRMTLTVNVELPDTFSPE  
LKSLEGLLQRDVSRLGCHGGGSQEVKEHSFFKGVDWQHVVYLQKYPPPLIPPRGEVNAA  
DAFDIGSFDEEDTKGIKLLDCDQELYKNFPLVISERWQQEVTETVYEAVNADTDKIEARK  
RAKNKQLGHEEDYALGKDCIMHGMYLKLGNPFLTQWQRRYFYLFPNRLEWRGEGESRQNL  
LTMEQILSVEETQIKDKKCILFRIKGGKQFVLQCESDPEFVQWKKELNETFKEAQRLRR  
APKFLNKPRSGTVELPKPSLCHRNSNL

>sp|Q92747|ARC1A\_HUMAN Actin-related protein 2/3 complex subunit 1A OS=Homo sapiens  
GN=ARPC1A PE=1 SV=2

MSLHQFLLEPITCHAWNDRDQIALSPNNHEVHIYKKNQSQWVKAHELKEHNGHITGIDW  
APKSDRIVTCGADRDAYVWSQKDGWVKPTLVILRINRAATFVKWSPLENKFAVGSGARLI  
SVCYFESENDWWVSKHIKKPIRSTVLSLDWHPNNVLLAAGSCDFKCRVFSAYIKEVDEKP  
ASTPWGSKMPFGQLMSEFEGSGTGGWVHGVSFSASGRLAWVSHDSTVSADASKSVQVS  
TLKTEFLPLLSVSFVSSENSVVAAGHDCCPMLFNYYDRGCLTFVSKLDIPKQSIQRNMSAM  
ERFRNMDKRATTEDRNTALETLHQNSITQVSIYEVDKQDCRKFCCTTGIDGAMTIWDFKTL  
ESSIQGLRIM

>sp|Q7LC44|ARC\_HUMAN Activity-regulated cytoskeleton-associated protein OS=Homo sapiens  
GN=ARC PE=2 SV=1

MELDHRTSGGLHAYPGPRGGQVAKPNVILQIGKCRAEMLEHVRRTTHRLLAEVSKQVERE  
LKGLHRSVGLKESNLDGYVPTSDSQRWKKSIAKACLCRCQETIANLERWVKREMHVWREVF  
YRLERWADRLESTGGKYPVGSESARHTVSVGVGGPESYCHEADGYDYTVSPYAITPPPA  
GELPGQEPAAEQYQPWVPGEDGQSPGVDQIFEDPREFLSHLEEYLRQVGGSEYWLS  
QIQNHMNGPAKKWWEFKQGSVKNWVEFKKEFLQYSEGTLREAIQRELDLPQKQGEPLDQ  
FLWRKRDLYQTLVYDADEEEIIQYVVGTLQPKLKRFLRHLPLKTLQQLIQRGMEVQDDLE  
QAAEPAGPHLPVEDEAETLTPAPNSESVASDRTQPE

>sp|P84085|ARF5\_HUMAN ADP-ribosylation factor 5 OS=Homo sapiens GN=ARF5 PE=1 SV=2

MGLTVSALFSRIFGKKQMRILMVLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKN  
ICFTVWDVGGQDKIRPLWRHYFQNTQGLIFVVDSDNRERVQESADELQKMLQEDELDAV  
LLVFANKQDMPNAMPVSELTDKLGLQHLRSRTWYVQATCATQGTGLYDGLDWLSHELKSR

>sp|P62330|ARF6\_HUMAN ADP-ribosylation factor 6 OS=Homo sapiens GN=ARF6 PE=1 SV=2

MGKVLKIFGNKEMRILMLGLDAAGKTTILYKLKLGSVTTIPTVGFNVETVYKNVKFN  
VWDVGGQDKIRPLWRHYTGTQGLIFVVDCAADRDRIDEARQELHRIINDREMRDAIILIF  
ANKQDLPDAMPHEIQEKLGLTRIRDRNWYVQPSCATSGDGLYEGLTWLTSNYKS

>sp|Q69YU3|ANK34A\_HUMAN Ankyrin repeat domain-containing protein 34A OS=Homo sapiens  
GN=ANKRD34A PE=2 SV=2

MLHTEGHALLRAVGQGLRLRLRLLEGGAYVNEGDAQGETALMAACRARYDDPQNKARMV  
RYLLEQGADPNIAADRLGRTALMHACAGGGAASLLLAHGADPSVRDHAGASALVHALD  
RGDRETLATLLDACKAKGTEVITITDTSPSGTTKTRQYLNSPSPGVEDPAPASPSPGF  
CTSPSEIQLQTAGGGGRGMLSPRAQEEEEKRDVFEFPLPKPPDDPSPSEPLPKPPRHPPK  
PLKRLNSEPWGLVAPPQVPVPTTEGRPGIERLTAEFNGLTLTGRPRLSRRHSTEGPEDPPP

WAEKVTSGGPLSRRTAPEAQESGPPSGLRQKLSRMEPVELDTPGHLCPDSPRESSLSLE  
RRRYSASPLTLPPAGSAPSPRQSQESLPGAVSPLSGRRRSPGLLERRSGTLLLDHISQT  
RPGFLPPLNVSPHPIPDIRPQPGGRAPSLPAPPYAGAPGSPRTKRKLVRHSMQTEQIR  
LLGGFQSLGGPGEPGR

>sp|A6QL64|AN36A\_HUMAN Ankyrin repeat domain-containing protein 36A OS=Homo sapiens  
GN=ANKRD36 PE=2 SV=3

MEDGKRERWPTLMERLCSDGFAFPQYPIKPYHLKRIHRAVLHGNLEKLKYLITYDANK  
RDRKERTALHLACATGQPEMVHLLVSRRCELNLCDREDRTPLIKAVQLRQEACATLLLN  
GANPNITDFFGRALTALHYAVYNEDTSMIEKLLSHGTNIEESKCEYQPLLFAVSRRKVMV  
EFLKKKANVNAIDYLRGSAIHAVTLGEKDIVILLQHNIQVLSRDAFRKIAGDYAIEA  
KNRVIFDLIYEYERKRYEDLPINSNPVSSQKQPALKATSGKEDSISNIATEIKDGQKSGT  
VSSQKQPALKDTSKDDSVSNTEIKDEQKSGTVLPAVEQCLNRSLYRPDAVAQPVTE  
EFSLESEIISKLYIPKRKIISPRSIKDVLPVVEEAVDRCLYLLDRFAQPVTKDKFALESE  
NISEPYFTNRRTISQQAENLDAACGIDKTENGMFEDQVNDKEGKALPATGQKANVSPE  
QPPLFTHTVKDRDHISTRFLGGMDSLTSSEESSERPPLSTLTKEADPSSKAAMRRKDSP  
PPGKVSSQKQPAEKATSDDKDSVSNATEIKEGPISGTVSSQKQPAEKATSDKDSVSN  
ATEIKKGQKSGTVSPQKQSAWKVIFKKVSLNIAATRIMGGKSGTVSSQKQPASKATSD  
KTDSALNATEIKDGLQCGTVSSQKQPALKATDEEDSVSNATEIKDGEKSGTVSSQKQ  
PALKATDEEDSVSNATEIKDGEKSGTVSSQKQPALKATDEKDSVSNATEIKDGEKS  
GTVSSQKPPALTATDEEGSVLSIARENKDGEKSRTVSSRKKPALKATSDKDSFSNITR  
GKKDGEISRKVSSQKPPTLKGTSDDEEDSVLGIARENKDGEKSRTVSSEKPPGLKASSAEK  
DSVLNIARGKKDGEKTRVSSRKKPSLEATSDKDSFSNITREKKDGEISRKVSSQKPPA  
LKGTSDDEEDSVLGIARENKDGEKSRTVSSEKPPGLKATSDKDSVLNIARGKKDGEKTRT  
VSSQKPPPTLKATSDDEEDSVLSIARENKDGEKSRTVSSEKPSGLKATSAEKDSVLNIARGK  
KYGEKTRVSSRKKPALKATSDKDSVLYIAREKKDGEKSRTVSSPKQPALKAICDKEDS  
VPNMAEKKDEQISGTVSCQKQPALKATSDKKDSVSNIPTEIKDGQKSGTVSSQKQPAWK  
ATSVKKDSVSNATEIKDGQIRGTGILEYTFNVMFDQIEEKFTSLNKSAGVSPQKQSAQK  
VIFKKVSLNIAATRITGGWKSGETPENLPTLKATIENTKNSVLNTATKMKDVQTSTPAE  
QDLEMASEGEQKRLEEYENNPQVKNQIHSRDDLDIIQSSQTVSEDGDSLCCNKNVIL  
LIDQHEMKCKDCVHLLKIKNTFCLWKRLIKLKNHCEQLRVKIRKLKNKASVLQKRISEK  
EEIKSQLKHEILELEKELCSLRFATQEQKKRRNVEEVHVKVREKLRIITEEQYRIEADVT  
KPIKPALKSAEVELKTGGNNSNQVSETDEKEDLLHENRLMQDEIARLRLEKDTIKNQNL  
KKYLDKDFEIVKRKHEDLQKALKRNGETLAKTIACYSGQLAALTDENTTLRSKLEKQRESR  
QRLETEMQSYHCRLNAARCDHDQSHSSKRDQELAFQGTVDKCRHLQENLNHVLILSLQL  
SKAESKSRVLKTELHYTGEALKEKALVFEHVQSELKQKQSQMKDIEKMYKSGYNTMEKCI  
EKQERFCQLKKQNMLLQQQLDDARNKADNQEKAILNIQARCDARVQNLQAECKHRLLLE  
EDNKMLVNELNHSKEKECQYEKEKAEREVAVRQLQQRDDVLNKGSAKALLDASSRHCT  
YLENGMQDSRKLDQMRSQFQEIQDQLTATIRCTKEMEGDTQKLEVEHVMRKIIKKQDD  
QIERLEKILQHSSMLQVFES

>sp|P54802|ANAG\_HUMAN Alpha-N-acetylglucosaminidase OS=Homo sapiens GN=NAGLU PE=1 SV=2

MEAVAVAAVGVLLLAGAGGAAGDEAREAAAVRALVARLLGPGPAADFSVSVERALAAKP  
GLDTYSLGGGGAARVRVGSTGVAAAAGLHRYLRDFCGCHVAWSGSQRLRPLPAVPGE  
LTEATPNRYRYQNVCTQSYSFVWWDWARWEREIDWMALNGINLALAWSGQEAIWQRVYL  
ALGLTQAEINEFFTGPAFLAWGRMGNLHTWDGPLPPSWHIKQLYLQHRVLDQMRSFGMTP

VLPFAAGHVPEAVTRVFPQVNVTKMGSWGHNCSYSCSFLLAPEDPIFPIIGSLFLRELI  
KEFGTDHIYGADTFNEMQPPSSEPSYLA AATTAVYEAMTAVDTEAVWLLQGWLFGHQPFQF  
WGPAQIRAVLGAVPRGRLLVLDLFAESQPVYTRTASFQGGPFIWCMLHNFGGNHGLFGAL  
EAVNGGPEAARLFPNSTMVGTGMAPEGISQNEVVYSLMAELGWRKDPVPDLA AAVTSFAA  
RRYGVSHPDAGAAWRLLRSVYNCSGEACRGHNRSPLVRRPSLQMNTSIWYNRSDVFEAW  
RLLTSAPSLATSPA FRYDLLDLTRQAVQELVSLYEEARSAYLSKELASLLRAGGVLAY  
ELLPALDEVLASDSRFLGSLWLEQARAAVSEAEADFYEQNSRYQLTLWGPEGNILDYAN  
KQLAGLVANYITPRWRLFLEALVDSVAQGIPFQQHQFDKNVFQLEQAFVLSKQRYPSQPR  
GDTVDLAKKIFLKYYPRWVAGSW

>sp|Q96K21|ANCHR\_HUMAN Abscission/NoCut checkpoint regulator OS=Homo sapiens GN=ZFYVE19  
PE=1 SV=3

MNYDSQQPPLPLPYAGCRRASGFPALGRGGTVPVGVWGGAGQGREGRSWGEGPRGPGLG  
RRDLSSADPAVLGATMESRCYGC VAKFTLFKKEYGCKNCGRAFCSGCLSFSAAVPRTGNT  
QQKVCKQCHEVLTRGSSANASKWSPPQNYKKRVA ALEAKQKPSTSQSQGLTRQDQMIAER  
LARLRQENKPKLVPSQAEI EARLAALKDERQGSIPSTQEMEARLAALQGRVLPSQTPQPA  
HHTPDTRTQAQQTQDLLTQLAAEVAIDESWKGGGPAASLQNDLNQGGPGSTNSKRQANWS  
LEEEKSRLLAAAELERENTQRERILALAKRLAMLRGQDPERVTLQDYRLPDSDDDEDE  
ETAIQRVLQQLTEEASLDEASGFNIPAEQASRPWTQPRGAEPEAQDVPDPRPEAE EELPW  
CCICNEDATLRCAGCDGDLFCARCFREGHDAFELKEHQTSAYSPPRAGQEH

>sp|Q9Y264|ANGP4\_HUMAN Angiopoietin-4 OS=Homo sapiens GN=ANGPT4 PE=1 SV=1

MLSQ LAMLQGSLLL VVATMSVAQQTREADRGCETLVVQHGHC SYTFLLPKSEPCPPGPE  
VSRDSNTLQRESLANPLHLGKLPTQQVKQLEQALQNNTQWLKKLERA IKTILRSKLEQVQ  
QQMAQNQTAPMLELGTSLNQTTAQIRKLT DMEAQLNQTSRMDAQMPETFLSTNKLENQ  
LLLQRQKLQQLQGQNSALEKRLQALETQQEELASILSKKAKLLNTLSRQSAALTNIERG  
LRGVRHNSSLQDQQHSLRQLLVLLRHLVQERANASAPAFIMAGQVFQDCAEIQRSGAS  
ASGVYTIQVSNATKPRKVFCDLQSSGGRWTLIQRRENGTVNFQRNWKDYKQGFGDPAGEH  
WLGNEVVHQLTRRAAYSLRVELQDWEGHEAYA QYEHFHLGSENQLYRLSVVGYSGSAGRQ  
SSLVLQNTSFSTLSDNDHCLCKCAQVMMSGGWFDACGLSNLNGVYYHAPDNKYKMDGIR  
WHYFKGPSYSLRASRMMIRPLDI

>sp|Q96BM1|ANKR9\_HUMAN Ankyrin repeat domain-containing protein 9 OS=Homo sapiens  
GN=ANKRD9 PE=2 SV=1

MPWDARRPGGGADGGPEASGAARSRAQKQCRKSSFAFYQAVRDLLPVWLL EDMRASEAFH  
WDERGRAAA YSPSEALLYALVHDHQAYAHYLLATFPRRALAPPSAGFRCCAAPGPHVALA  
VRYNRVGILRRILRTL RDFPAEERARVLDRRGCSRVEGGGTS LHVACELARPECLFLLLG  
HGASPLGRDGGGLTPELLLRQLGRDAGATPSAAGAPASAPGEPRQRRLLLLDLLALYTP  
VGAAGSARQELLGDRPRWQRLLGEDKFQWLAGLAPPSLFARAMQVLVTAISPGRFPEALD  
ELPLPPFLQPLDLTGKG

>sp|Q68DC2|ANKS6\_HUMAN Ankyrin repeat and SAM domain-containing protein 6 OS=Homo sapiens  
GN=ANKS6 PE=1 SV=2

MGEGLPPAFQLLLACDQGD TETARRLLEPGAAEPAERGAEP EAGAEPAGA EVAGPGAA  
AAGAVGAPVPVDCSDEAGNTALQFAAAGGHEPLVRFLRRGASVNSRNHYGWSALMQAAR  
FGHVSVAHLLLDHGADVNAQNRLGASVLTVASRGGHLGVVKLLLEAGAFVDHHHPSGEQL  
GLGGSRDEPLDITALMAAIQHGH EAVRLLMEWGADPNHAARTVGWSPLMLAALTGR LGV  
AQQLVEKGANPDHLSVLEKTA FEVALDCKHRDLVDYLDPLTTVRPKTDEEKRRPDIFHAL

KMGNFQLVKEIADEDP SHVNLVNGDGATPLMLAAVTGQLALVQLLVERHADVDKQDSVHG  
WTALMQATYHG NKEIVKYLLNQGADVTLRAKNGYTAFDLVMLLNDPDTLVRL LASVCMQ  
VNKDKGRPSHQ PPLPHSKVRQPWSIPVLPDDKGGLKSWWNRMSNRFRKLKLMQTLPRGLS  
SNQPLPFSDEPEPALDSTMRAAPQDKTSRSALPDAAPVTKDNGPGSTRGEKEDTLLT TML  
RNGAPLTRLP SDKLKA VIPPFLPSSFELWSSDRSRTRHNGKADPMKTALPQRASRGHPV  
GGGGTDTPVRPVKFPSP LPRSPASSANSNGFNHSPHSSGGSSGVGVS RHGGELLNRSGGS  
IDNVLSQIAAQRKKAAGLLEQKPSHRSSPVGPAPGSSPELPASPAGGSAPVGKKLETSK  
RPPSGTSTTSKSTSPTLTPSPSPKGHTAESSVSSSSSHRQSKSSGGSSSGTITDEDELTG  
ILKKLSLEKYQPIFEEQEVDMEAFLLTDGDLKELGIKTDGSRQQILAAISELNAGKGRE  
RQILQETIHNHSSFESSASNTRAPGN SPCA

>sp|Q8IV38|ANKY2\_HUMAN Ankyrin repeat and MYND domain-containing protein 2 OS=Homo sapiens  
GN=ANKMY2 PE=1 SV=1

MVHIKKGELTQEEKELLEVI GKGTVQEAGTLLSSKNVRVNCLDENGMTPLMHAAYKGKLD  
MCKLLLRHGADV NCHQHEHGYTALMFAALSGNKDITWVMLEAGAETDVVNSVGRTAAQMA  
AFVGQHDCVTI INFFPRERLDYYTKPQGLDKEPKLPKLAGPLHKIITTTNLHPVKIVM  
LVNENPLLTEEAALNKCYRVM DLICEKCMKQ RDMNEVLAMKMHYISCFQKCINFLKDGE  
NKLDTLIKSLLKGRASDGFVYQEKI IRESIRKFPYCEATLLQQLVRSIAPVEIGSDPTA  
FSVLTQAITGQVGFDVEFCTTCGEKGASKRCSVCKMVIYCDQTCQKTHWFTHKKICKNL  
KDIYEKQQL EAAKEKRQEENHGKLDVNSNCVNEEQPEAEVGISQKDSNPEDSGEGKKESL  
ESEAELEGLQDAPAGPQVSEE

>sp|Q9NXR5|ANR10\_HUMAN Ankyrin repeat domain-containing protein 10 OS=Homo sapiens  
GN=ANKRD10 PE=1 SV=2

MSAAGAGAGVEAGFSSEELSLRFPLHRACRDGDLATLCSLLQQTPHAHLASEDSFYGWT  
PVHWAHF GKL ECLVQLVRAGATLNVSTTRYAQTPAHIAAFGGHPQCLVWLIQAGANINK  
PDCEGETPIHKAARSGSLECI SALVANGAHVDLRNASGLTAADIAQTQGFQECAQFLNL  
QNCHLNHFYNNGILNGGHQNVFPNHISVG TNRKRCLEDSDFGVKKARTEAQS LDSAVPL  
TNGDTEDDADKMHV DREFAVVDMKNSSSVSNTLTNGCVINGHLDFPSTTPLSGMESRNG  
QCLTG TNGISSGLAPGQPFSSQGLCISGTEEPEKTLRANPELCGSLHLNGSPSSCIAS  
RPSWVEDIGDNLYYGHYHGF GDTAESIPELNSVVEHSKSVKVQERYDSAVLGT MHLHHGS

>sp|Q86SG2|ANR23\_HUMAN Ankyrin repeat domain-containing protein 23 OS=Homo sapiens  
GN=ANKRD23 PE=1 SV=1

MDFISIQQLVSGERVEGKVLGFGHGVDPGAWPSDWRRGPQEAVAREKLKLEEEKKKKLE  
RFNSTRFNL DNLADLENLVQRRKKRLRHRVPPRKPEPLVKPQSQAQVEPVGLEMFLKAAA  
ENQEYLIDKYLT DGGDPNAHDKLHRTALHWACLKGHSQLVNKLLVAGATVDARDLLDRTP  
VFWACRGGHLVILKQLLNQ GARVNARDKIGSTPLHVAVRTRHPDCLEHLIECGAHLNAQD  
KEGDTALHEAVRHGSYKAMKLLLLYGAELGVRNAASVTPVQLARDWQRGIREALQAHVAH  
PRTRC

>sp|Q9UPS8|ANR26\_HUMAN Ankyrin repeat domain-containing protein 26 OS=Homo sapiens  
GN=ANKRD26 PE=1 SV=3

MKKIFS KKGESPLGSFARRQRSSAGGGEGEGAYSQPGYHVRDRDLGKIHKAA SAGNVA  
KVQQIILL LRKNGLNDRDKMNR TALHLACANGHPEVVTLLVDRKCQLNVC DNENRTALMKA  
VQCQEEKCATILLEHGADPNLADVHGNTALHYAVYNEDISVATKLLYDANIEAKNKDDL  
TPLLLAVSGKKQ QMVEFLIKKANVNAVDKLESSHQLISEYKEERIPKHSSQNSNSVDES  
SEDSLSRLSGKPGVDDSWPTS DDEDLNFDTKNVPKPSLAKLMTASQQSRKNLEATYGTVR

TGNRTLFE DRSDSQDEVVVESLPTTSIKVQCFSHPTYQSPDLLPKPSHKSLANPGLMKE  
EPTKPGIAKKENGIDIIIESAPLEQTNNNDLTYVDEVHKNNRSDMMSALGLGQEEDIESPW  
DSEISENFPQKYVDPLAGAADGKEKNIGNEQAEDVFYIPSCMSGSRNFKMAKLEDTRNV  
GMPVAHMESPERYLHLKPTIEMKDSVPNKAGGMKDVQTSKAAEHDLEVASEEEQEREGSE  
NNQPQVEEERKKHRNNEMEVSANIHDGATDDAEDDDDDGLIQKRKSGETDHQQFPRKEN  
KEYASGPALQMKEVKSTEKEKRTSKESVNSPVFGKASLLTGGLLQVDDSSSLSEIDEDEG  
RPTKKT SNEKNKVKNQIQSMDDVDDLTSSETASEDCELPHSSYKNFMLLIEQLGMECKD  
SVSLLKIQDAALSCERLLELKKNHCELLTVKIKKMEDKVNVLQRELSETKEIKSQLEHQK  
VEWERELCSLRFSLNQEEEKRRNADTLYEKIREQLRRKEEQYRKEVEVKQQLLESLQTLE  
MELRTVKSNLNQVVQERND AQRQLSREQNARMLQDGILTNHLSKQKEIEMAQKKMNSENS  
HSHEEEKDL SHKNSMLQEEIAMLRL EIDTIKNQNQEKEKKCFEDLKIVKEKNEDLQKTIK  
QNEETLTQTISQYNGRLSVLTAENAMLSKLENEKQSKERLEAEVESYHSRLAAA IHDRD  
QSETSKRELELAFQRRARDECSRLQDKMNFVSNLKDNN EILSQQLFKTESKLSLEIEFH  
HTRDALREKTLGLERVQKDL SQTQCQMKEME QYQNEQVKV NKYIGKQESVEERLSQLQS  
ENMLLRQQLDDAHNKADNKEKTVINIQQDFHAI VQKLQAESEKQSLLLEERNKELISECN  
HLKERQYQYENEAEREVVVRQLQQLADTLKKQSMSEASLEVTSRYRINLEDETQDLKK  
KLGQIRNQLQEAQDRHTEAVRCAEKMQDHKQKLEKDN AKLKVTVKKQMDKIEELQKNLLN  
ANLSEDEKEQLKKLMELKQSLECNLDQEMKKNVELEREITGFKNLLKMTRKKLNEYENGE  
FSFHGDLKTSQFEMDIQINKLKHKIDDLTAELETAGSKCLHLDTKNQILQEELLSMKT VQ  
KKCEKLQKNKKKLEQEVINLRSHIERNMVELGQVKYQKQEI EERARQEI AEKLKEVNLFL  
QAQAASQENLEQFREN NFASMSQME LR IKDLESEL SKIKTSQEDFNKTELEKYKQLYLE  
ELKVRKSLSSKLTKTNERLAEVNTKLLVEKQQSRS LFTTLTRPVM EPPCVGNLNNSLDL  
NRKLI PRENLVISTSNPRASN SMENYLSKMQQE LEKNITRELKEAAA ELES GS IASPLG  
STDES NLNQDLVWKASREYVQVLKKNYMI

>sp|Q7Z3H0|ANR33\_HUMAN Ankyrin repeat domain-containing protein 33 OS=Homo sapiens  
GN=ANKRD33 PE=2 SV=3

MVACYHGFQSVVALLSHCPFLDVNQD KGGDTALMLAAQAGHVPLVSLLLNYVGLDLER  
RDQRGLTALMKAAMNRCECVATLLMAGADLTAVDPVRGKTALEWAVLTDSFDTVWRIRQ  
LLRRPQVEQLSQHYKPEWPALSGLVAAQAQAQVAPSLLERLQATLSLPFAPSPQEGGVL  
DHLVTATTSLASPFVTTACHTLCPDHPPSLGTRSKSVPELLVPAEAQSFRTPKSGPSSLA  
IPGAQDREETGGGGQNGTEVGEDGIGQAGNR

>sp|Q53RE8|ANR39\_HUMAN Ankyrin repeat domain-containing protein 39 OS=Homo sapiens  
GN=ANKRD39 PE=1 SV=1

MATPRCADGPCCSHPSAVLGVQQTLEEMDFERGIWSAALNGDLGRVKHLIQKAEDPSQP  
DSAGYTALHYASRN GHYAVCQFLLES GAKCDAQTHGGATALHRASYCGHTEIARLLLSHG  
SNPRVDDDGMTSLHKAERGHGDI CSLLLQHSPALKAIRDRKARLACDLLPCNSDLRDL  
LSS

>sp|Q7Z713|ANR37\_HUMAN Ankyrin repeat domain-containing protein 37 OS=Homo sapiens  
GN=ANKRD37 PE=2 SV=1

MLLLDCNPEVDGLKHLL ETGASVNAPPDCKQSPVHLAAGSGLACFLWQLQTGADLNQQ  
DVLGEAPLHKA AKVGSLECLSLLVASDAQIDL CNKNGQTAEDLAWSCGFPCAKFLT TIK  
CMQTIKASEHPDRNDCVAVLRQKRSLGSVENTSGKRKC

>sp|Q86W74|ANR46\_HUMAN Ankyrin repeat domain-containing protein 46 OS=Homo sapiens  
GN=ANKRD46 PE=1 SV=1

MSYVFNVDSSQTNVPLLQACIDGDFNYSKRLLSESGFDPNIRDSRGRTGLHLAAARGNVDI  
CQLLHKFGADLLATDYQGNTALHLCGHVDTIQFLVSNGLKIDICNHQGATPLVLAKRRGV  
NKDVIRLLESLEEVEVKGFNRGTHSKLETMQTAESAMESHSLNPNLQQGEGVLSSFR  
TTWQEFVEDLGFWRVLLIFVIALLSLGIAYRRTLRLGSFARQDRSRIQAI

>sp|Q8NB46|ANR52\_HUMAN Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat  
subunit C OS=Homo sapiens GN=ANKRD52 PE=1 SV=3

MGILSITDQPPLVQAIFSRDVEEVRSLLSQKENINVLDQERRTPLHAAAYVGDPILQLL  
LMSGANVNAKDTLWLTPLHRAAASRNEKVLGLLLAHSADVNARDKLWQTPLHVAANRAT  
KCAEALAPLLSSLNADRSGRSALHHAVHSGHLETVNLLLNKGASLNVCDKKERQPLHWA  
AFLGHLEVLKLLVARGADLGCKDRKGYGLLHTAAASGQIEVVKYLLRMGAIEDEPNAFGN  
TALHIACYLGQDAVAIELVNAGANVNQPNKGFPTPLHVAAVSTNGALCLELLVNNGADVN  
YQSKEGKSPLHMAAIHGRFTRSQILIQNGSEIDCADKFGNTPLHVAARYGHELLISTLMT  
NGADTARRGIHDMFPLHLAVLFGFSDCCRKLSSGQLYSIVSSLSNEHVLSAGFDINTPD  
NLGRTCLHAAASGGNVECLNLLSSGADLRRRDKFGRTPLHYAAANGSYQCAVTLVTAGA  
GVNEADCKGCSPLHYAAASDITYRAEPHTPSSHDAEEDEPLKESRRKEAFFCLEFLDNG  
ADPSLRDRQGYTAVHYAAAYGNRQNLLELLEMSFNCLEDVESTIPVSPLHLAAYNGHCEA  
LKTLAETLVNLDVRDHKGRTALFLATERGSTECVEVLTAHGASALIKERKRKWTPLHAAA  
ASGHTDSLHLLIDSGERADITVMDAYGQTPLMLAIMNGHVDCVHLLLEKGSTADAADLR  
GRTALHRGAVTGCEDCLAALLDHDAFVLCRDFKGRTPIHLASACGHTAVLRTLQAALST  
DPLDAGVDYSGYSMPHWASYTGHEDCLELLEHSPFSYLEGNPFTPLHCAVINNQDSTTE  
MLLGALGAKIVNSRDAKGRTPHAAAFADNVSGLRMLLQHQAEVNATDHTGRTALMTAAE  
NGQTAAVEFLLYRGKADLTVLDENKNTALHLACSKGHEKCALMILAETQDLGLINATNSA  
LQMPLHIAARNGLASVVQALLSHGATVLAVDEEGHTPALACAPNKDVADCLALILSTMKP  
FPPKDAVSPFSFSLKNCISAAAKTVGGCGALPHGASCPYSQERPGAIGLDGCYSE

>sp|A6NC57|ANR62\_HUMAN Ankyrin repeat domain-containing protein 62 OS=Homo sapiens  
GN=ANKRD62 PE=2 SV=4

MEVRGSFLAACRRRMATWRKNRDKDGFSPNGYRVRQKDLGMIHKAAGDVNKMESILL  
RLNDLNRDKNRNTALLACAHGRPGVVADLVARKCQLNLTDSENRTALIKAVQCQEEVC  
ASILLEHGANPNVRDMYGNTALHYAIDNENISMARKLLAYGADIEARSQDGHTSLLAVN  
RKKEQMVAFLKKKPDLTIDNFGRTALILAARNGSTSVVYQLLQHNIDVFCQDISGWT  
EDYAVASKFQAIRGMISEYKANKRCKSLQNSNSEQDLEMTSEGEQERLEGCESSQPQVEE  
KMKKCRNKKMEVSRNVHADDSDNYNDVDEL IHKIKNRKPDNHQSPGKENGFDRLARKT  
SNEKSKVKSQIYFTDDLNDISGSSEKTSDEDEL PYSDDENFMLLIEQSGMECKDFVSLSK  
SKNATAACGRSIEDQKCYCERLKVFKQMKNNISVLQKVLSETDKTKSQSEHQNLQGKKK  
LCNLRFILQQQEEERIKAEELEYKDIEELKIMEEQYRTQTEVKKQSKLTLKSLEVELKTV  
RSNSNQNFHTHERERDLWQENHLMRDEIARLRLEIDTIKHQNQETENKYFKDIEIKENN  
EDLEKTLKRNEEALTKTITRYSKELNVLMDENTMLNSELQKEKQSMSRLETEMESYRCRL  
AAALCDHDQRQSSKRDQLAFQSTVNEWCHLQEDTNSHIQILSQQLSKAESTSSGLETEL  
HYEREALKEKTLHIEHMQGVLSTQRRLEDIEHMYQNDQPILEKYVRKQQSVEDGLFQLQ  
SQNLLYQQQCNDARKKADNQEKTINIIVKCEDTVEKLQAECKLEENNKGLMKECTLLK  
ERQCQYEKEKEEREVVRRLQREVDDALNKQLLLEAMLEISSERRINLEDEAQLKKKLG  
QMRSQVCMKLSMSTVTL

>sp|P01008|ANT3\_HUMAN Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1  
MYSNVIGTVTSGKRKVYLLSLLIGFWDCVTCGSPVDICTAKPRDIPMNPNCIYRSPEK

KATEDEGSEQKIPEATNRRVWELSKANSRFATTFYQHLADSKNDNDNIFLSPLSISTAFA  
MTKLGACNDTLQQLMFVKFDTISEKTSQIHFFFAKLNCRLYRKANKSSKLVSANRLFG  
DKSLTFNETYQDISELVYGAKLQPLDFKENAEQSRAAINKWVSNKTEGRITDVIPSEAIN  
ELTVLVVNTIYFKGLWKSFKSPENTRKELFYKADGESCSASMMYQEGKFRYRRVAEGTQ  
VLELPFKGDDITMVLILPKPEKSLAKVEKELTPEVLQEWLDELEEMMLVVHMPRFRIEDG  
FSLKEQLQDMGLVDLFSPEKSKLPGIVAEGRDDLYVSDAFHKAFLVNEEGSEAAASTAV  
VIAGRSLNPNRVTFKANRPFLVFIREVPLNTIIFMGRVANPCVK

>sp|P27216|ANX13\_HUMAN Annexin A13 OS=Homo sapiens GN=ANXA13 PE=1 SV=3

MGNRHAKASSPQGFVDVRDAKKLNKACKGMGTNEAAIIIEILSGRTSDERQQIKQKYKATY  
GKELEEVLKSELSGNFECTALALLDRPSEYAARQLQKAMKGLGTDESVLIEVLCTRNTKE  
IIAIKEAYQRLFDRSLESDVKGDTSGNLKKILVSLQANRNEGDDVDKDLAQDAKDLYD  
AGEGRWGTDELAFNEVLAKRSYKQLRATFQAYQILIGKDIEEAIEEETSGDLQKAYTLV  
RCAQDCEDYFAERLYKSMKGAGTDEETLIRIVVTRAEVDLQGIKAKFQEKYQKSLSDMVR  
SDTSGDFRKLVALH

>sp|P56377|AP1S2\_HUMAN AP-1 complex subunit sigma-2 OS=Homo sapiens GN=AP1S2 PE=1 SV=1

MQFMLLSRQGLRLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLEWRDLKIVYKR  
YASLYFCCAIEDQDNELITLEIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGG  
EVQETSKKNVLKAIEQADLLQEEAETPRSVLEEIGLT

>sp|O94973|AP2A2\_HUMAN AP-2 complex subunit alpha-2 OS=Homo sapiens GN=AP2A2 PE=1 SV=2

MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVC  
KLLFIFLLGHDIDFGHMEAVNLLSSNRYTEKQIGYLFISVLVNSNSELIRLINNAIKNDL  
ASRNPTFMGLALHCIA SVGSREMAEAFAGEIPKVLVAGDTMDSVKQSAALCLLRLYRTSP  
DLVPMGDWTSRVVHLLNDQHLGVVTAATSLITTLAQKNPEEFKTSVSLAVSRLSRIVTSA  
STDLQDYTYFVPAPWLSVKLLRLLQCYPPDPAVRGRLTECLETILNKAQEPPKSKKVQ  
HSNAKNAVLFEAISLIIHHDSEPNLLVRACNLGQFLQHRETNLRYLAESMCTLASSEF  
SHEAVKTHIETVINALKTERDVSVRQRAVDLLYAMCDRSNAPQIVAEMLSYLETADYSIR  
EEIVLKVAILAKEYAVDWTYVDTILNLIRIAGDYVSEEVWYRVIIQIVINRDDVQGYAAK  
TVFEALQAPACHENLVKGGYILGEFGNLIAGDPRSSPLIQFHLHLSKFHLCSVPTRALL  
LSTYIKFVNLFPEVKPTIQDVLRSDSQLRNADVELQQRAVEYLRLSTVASTDILATVLEE  
MPPFPERESSILAKLKKKKGPSTVTDLEDTKRDRSVDVNGGPEPAPASTSAVSTPSPSAD  
LLGLGAAPPAPAGPPSSGGSGLLVDVFSDSASVVA PLAPGSEDNFARFVCKNNGVLFEN  
QLLQIGLKSEFRQNLGRMFI FYGKNTSTQFLNFTPTLICSDDLQPNLNLQTKPVDPTVEG  
GAQVQVNVNIECVSDFT EAPVLNIQFRYGGTFQNVSVQLPITLNKFFQPTEMASQDFFQR  
WKQLSNPQQEVQNI FAKAHPMDTEVTAKIIGFGSALLEEVDPNPANFVGAGIIHTKTTQ  
IGCLLRLEPNLQAQMYRLTLRTSKEAVSQRLCELLSAQF

>sp|P63010|AP2B1\_HUMAN AP-2 complex subunit beta OS=Homo sapiens GN=AP2B1 PE=1 SV=1

MTDSKYFTTNKKGEIFELKAELNNEKKEKRKEAVKKVIAAMTVGKDVSSLPD VVNCMQT  
DNLELKKLVYL YLMNYAKSQPDMAIMAVNSFVKDCEDPNPLIRALAVRTMGCIRVDKITE  
YLCEPLRKCLKDEDPYVRKTA AVCVAKLHDINAQMVEDQGFLDSLRLIADSNPMVVANA  
VAALSEISESHPNLNLLDLPQNINKLLTALNECTEWGQIFILDCLSNYNPKDDREAQSI  
CERVTPRLSHANS AVVLSAVKVLMKFLELLPKDSDYNNMLLKKLAPPLVTLLS GEPEVQY  
VALRNINLIVQKRPEILKQEI KVFFVKYNDPIYVKLEKLDIMIRLASQANIAQVLAELKE  
YATEVDVDFVRKAVRAIGRCAIKVEQSAERCVSTLLDLIQTKVNYVVQEAI VVIRDIFRK  
YPNKYESIIATLCENLDSLDEPDARAAMIWIVGEYAERIDNADELLESFLEGFHDESTQV

QLTLLTAIVKLFLKKPSETQELVQQVLSLATQSDNDPLRDRGYIYWRLSTDPVTAKEV  
VLSEKPLISEETDLIEPTLLDELICHIGSLASVYHKPPNAFVEGSHGIHRKHLPIHHGST  
DAGDSPVGTATTATNLEQPQVIPSQGDLLGDLNLDLGPVNVQVSSMQMGAVDLLGGGL  
DSLVGQSFIPSSVPATFAPSPTPAVVSSGLNDFELSTGIGMAPGGYVAPKAVWLPVKA  
KGLEISGTFTHRQGHIYMEMNFTNKALQHMTDFAIQFNKNSFGVIPSTPLAIHTPLMPNQ  
SIDVSLPLNTLGPVMKMEPLNNLQVAVKNNIDVFYFSCLIPLNVLFVEDGKMERQVFLAT  
WKDIPNENELQFQIKECHLNADTVSSKLQNNNVYTIAKRNEVGQDMLYQSLKLTNGIWIL  
AELRIQPGNPNTLSLKCRAPEVSQYIYQVYDSILKN

>sp|Q96N21|AP4AT\_HUMAN AP-4 complex accessory subunit Tepsin OS=Homo sapiens GN=TEPSIN  
PE=1 SV=1

MAAAPPLRDRLSFLHRLPILLKGTSDDDVPCPYLFEEIAKISHESPGSSQCLLEYLLSR  
LHSSSGHGKLVKILLYLCSHGSSFFLLILKRNSAFIQEAAAFAGPPDPLHGNSLYQKV  
RAAAQDLGSTLFSDTVLPLAPSQPLGTPPATGMGSQARPHSTLQGGFGYSKEHGRTAVRHQ  
PGQAGGWDDELDSGPSSQNSSQNSDLRVSDSGSHSGSDSHSGASREPGDLAERVEVVAL  
SDCQQLSLVRTVTRGPRAFLSREEAQHFIAKACGLNCEAVLQLLTCHLRGTSECTQLRA  
LCAIASLGSSDLLPQEHILLRTRPWLQELSMGSPGPVTNKATKILRHFEASCGQLSPARG  
TSAEPGPTAALPGPSDLLTDAVPLPGSQVFLQPLSSTPVSSRSPAPSSGMPSSPVPTPPP  
DASPIAPAGDPSEAEARLAESRRWRPERIPGGTDSKRGPSSCAWSRDSLFAGMELVACP  
RLVGAGAAAGESCPDAPRAPQTSSQRTAAKEPPGSEPSAFAFLNA

>sp|P60006|APC15\_HUMAN Anaphase-promoting complex subunit 15 OS=Homo sapiens GN=ANAPC15  
PE=1 SV=1

MSTLFPSLFPRVTETLWFNLDRPCVEETELQQQEQQHQAWLQSI AEKDNVLPIGKPASE  
HYDDEEEDEDEDEDSEEDSEDEDMQDMDENDYNESPDGGEVNEVDMEGNEQDQDQWM  
I

>sp|Q9H1A4|APC1\_HUMAN Anaphase-promoting complex subunit 1 OS=Homo sapiens GN=ANAPC1 PE=1  
SV=1

MSNFYEERTTMIAARDLQEFVPPFGRDHCKHHPNALNLQLRQLQPASELWSSDGAAGLVGS  
LQEVTHIEKQKESWQLRKGVSEIGEDVDYDEELYVAGNMVIEWSKGSQSALAVYKAFTVD  
SPVQQALWCDFIISQDKSEKAYSSNEVEKCICILQSSCINMHSIEGKDYIASLPFQVANV  
WPTKYGLLFERSASSHEVPPGSPREPLTMFMSMLHPLDEITPLVCKSGSLFGSSRVQYVV  
DHAMKIVFLNTDPSIVMTYDAVQNVHSVWTLRRVKSEEENVVLKFSEQGGTPQNVATSSS  
LTAHLRSLSKGDSPTVSPFQNYSSIHSQSRSTSSPSLHSRSPSISNMAALSRAHSPALGV  
HSFSGVQRFNISSHNQSPKRHSISHSPNSNSNGSFLAPETEPVPELCIDHLWTETITNI  
REKNSQASKVFITSDLCGQKFLCFLVESQLQLRCVKFQESNDKTQLIFGSVTNIPAKDAA  
PVEKIDTMLVLEGSGNLVLYTGVRVGKVFIPGLPAPSLTMSNTMPRPSTPLDGVSTPKP  
LSKLLGSLDEVVLLSPVPELRDSSKLHDSLYNEDCTFQQLGTYIHSIRDPVHNRVTLELS  
NGSMVRITIPETATSELVQTCLQAIKFILPKEIAVQMLVKWYNVHSAPGGPSYHSEWNLF  
VTCLMNMGYNTDRLAWTRNFDFFEGSLSPVIAPKKARPSETGSDDDWEYLLNSDYHQNVE  
SHLLNRSCLCLSPSEASQMKDEDFSQNLSLDSSSTLLFTHIPAIFVVLHLVYEELKLNTLMG  
EGICSLVELLVQLARDLKLGPYVDHYRDYPTLVRTTGQVCTIDPGQTGMHHPSTFTSE  
PPSIYQWVSSCLKGEPMPPYPYLPGICERSRLVVLISIALYILGDESLVSESSQYLTRIT  
IAPQKLQVEQEENRFSFRHSTSVSSLAERLVVWMTNVGFTLRDLETLPFGIALPIRDAIY  
HCREQPASDWPEAVCLLIGRQDLSKQACEGNLPKGKSVLSSDVPSGTETEEEDDGMNDMN  
HEVMSLIWSEDLRVQDVRRLQLSAHPVRVNVVQYPELSDHEFIEEKENRLLQLCQRTMAL



PVGRGMFTLFSYHPVPTPLPIPKLNLTGRAPPRNTTVDLNSGNIDVPPNMTSWASFHNG  
VAAGLKIAPASQIDSAWIVYNKPKHAELANEYAGFLMALGLNGHLTKLATLNIHDYLTGK  
HEMTSIGLLLVSAAKLGTMDMSITRLLSIHIPALLPPTSTELDVPHNVQVAAVVGIGLV  
YQGTARHTAEVLLAEIGRPPGPEMEYCTDRESYSLAAGLALGMVCLGHGSNLIGMSDLN  
VPEQLYQYMGVGHRRFQTMHREKHKSPSYQIKEGDTINVDVTCPGATLALAMIYKTN  
RSIADWLRAPDTMYLLDFVKPEFLLRLTLARCLILWDDILPNSKWVDSNVPQIIRENSIS  
LSEIELPCSEDNLLETLSQAHVYIIAGACLSLGRFAGSENLSAFNCLHKFAKDFMTYLS  
APNASVTGPHNLETCLSVVLLSLAMVMAGSGNLKVLQLCRFLHMKTGGMNYGFHLAHHM  
ALGLLFLGGGRYSLSSTNSSIAALLCALYPHFAHSTDNRYHLQALRHLYVLAAPRLLV  
PVDVDTNTPCYALLEVTYKGTQWYEQTKEELMAPTLLPELHLLKQIKVKGPYRWELLIDL  
SKGTQHLKSLSKDGVLYVKLRAGQLSYKEDPMGWQSLLAQTVANRNSEARAFKPETISA  
FTSDPALLSFAEYFCKPTVNMGQKQEIILDLFSSVLYECVTQETPEMLPAYIAMDQAIRRL  
GRREMSETSELWQIKLVLEFFSSRSHQERLQNHPRGLFMNSEFLPVVKCTIDNTLDQWL  
QVGDMCMVHAYLSGQPLEESQLSMLACFLVYHVPAPQHLPPIGLEGSTSFAELLFKFKQ  
LKMPVRALLRLAPLLGNPQPMVM

>sp|095996|APC2\_HUMAN Adenomatous polyposis coli protein 2 OS=Homo sapiens GN=APC2 PE=1  
SV=1

MASSVAPYEQLVQRVEALKAENSHLRQELRDNSSHLKLETTETSGMKEVLKHLQGKLEQE  
ARVLVSSGQTEVLEQLKALQMDITSLYNLKFQPTLGPEPAARTPEGSPVHGSGPSKDSF  
GELSRATIRLLEELDRERCFLNEIEKEEKEKLWYYSQLQGLSKRLDELPHVETQFSMQM  
DLIRQQLEFEAQHIRSLMEERFGTSDMVQRAQIRASRLQIDKELLEAQDRVQQTEPQA  
LLAVKSVPVDEDPETEVPHTPEDGTPQPGNSKVEVFWLLSMLATRDQEDTARTLLAMSS  
SPESCVAMRRSGCLPLLLQILHGTEAAAGGRAGAPGAPGAKDARMRANAALHNIVFSQPD  
QGLARKEMRVLHVLEQIRAYCETCWDWLQARDGGPEGGGAGSAPIPIEPQICQATCAVMK  
LSFDEEYRRAMNELGGLQAVAEELLQVDYEMHKMTRDPLNLALRRYAGMTLTNLTFGDVAN  
KATLCARRGCMEAIVAQLASDSEELHQVVSSILRNLSWRADINSKKVLREAGSVTALVQC  
VLRATKESTLKSVALWNSLAHSTENKAAICQVDGALGLVSTLTYSKQSNLAIIESG  
GGILRNVSSLVATREDYRQVLRDHNCLQTLLQHLTSHSLTIVSNACGTLWNLSARSARDQ  
ELLWDLGAVGMLRNLVHSHKHKMIAMGSAAALRNLLAHRPAKHQAAATAVSPGSCVPSLYV  
RKQRALEAEELDARHLAQALEHLEKQGPPAAEAATKKPLPPLRHLDGLAQDYASDSCGFDD  
DDAPSSLAAAAATGEPASPAALSLFLGSPFLQGQALARTPPTRRGKEAEKDTSGEAAVA  
AKAKAKLALAVARIDQLVEDISALHTSSDDSFSLSSGDPGQEAPREGRAQSCSPCRGPEG  
GRREAGSRAHPLRLKAAHASLNSDSLNSGSASDGYCPREHMLPCPLAALASRREDPRCG  
QPRPSRLDLPLGCGAEPPAREATSADARVRTIKLSPTYQHVPPLLEGASRAGAEPLAGPG  
ISPGARKQAWLPADHLSKVPEKLAAAPLSVASKALQKLAQEGPLSLSRCSSSLSSAG  
RPGPSEGGDLDDSDSLEGLEEAGPSEAELDSTWRAPGATSLPVAIPAPRRNRGRGLGVE  
DATPSSSSSENYVQETPLVLSRCSSVSSLGSFESPSIASSIPSEPCSGQSGGTISPSELDP  
SPGQTMPPSRSKTPPLAPAPQGPEATQFSLQWESYVKRFLDIADCRERCRLPSELDAGS  
VRFTVEKPDENFSCASSLSALALHEHYVQQDVELRLLPSACPERGGGAGGAGLHFAGHRR  
REEGPAPTGSRPGAADQELELLRECLGAAPARLRKVASALVPGRRALPVPVYMLVPAP  
APAQEDDSCTDSAEGTPVNFSSAASLSDETLCQPPRDQPGGPAGRQRPTGRPTSARQAMG  
HRHKAGGAGRSAEQSRGAGKNRAGLELPLGRPPSAPADKDGSKPGRTRGDGALQSLCLTT  
PTEEAVYCFYGNDSDEEPPAAAPTPTHRRTSAIPRAFTRERPPQRKEAPAPSKAAPAAP  
PARTQPSLIADETPPCYSLSSSASSLSEPEPSEPPAVHPRGREPAVTKDPGPGGGRDSSP

SPRAAEELLQRCISSALPRRRPPVSGLRRRKPRATRLDERPAEGSRERGEAAAGSDRASD  
LDSVEWRAIQEGANSIVTWLHQAAAAATREASSESILSFVSGLSVGSTLQPPKHKRGRQ  
AEGEMGSARRPEKGAASVKTSGSPRSPAGPEKPRGTQKTPGVPVAVLRGRTVIYVPSPA  
PRAQPKGTPGPRATPRKVAPPCLAQPAAPAKVPSPGQQRSRSLHRPAKTSELATLSQPPR  
SATPPARLAKTPSSSSSQTSPASQPLPRKRPPVTQAAGALPGPGASPVPKTPARTLLAKQ  
HKTQRSFVRIPFMQRPARRGPPPLARAVPEPGPRGRAGTEAGPGARGGRLGLVRVASALS  
SGSESSDRSGFRRQLTFIKESPLRRRRSELSSAESAASAPQGASPRRRGRPAPAVFLCS  
SRCEELRAAPRQGPAPARQPPAARPSGGERPARRTTSESPSRLPVRAPAARPETVKRYA  
SLPHISVARRPDGAVPAAPASADAARRSSDGEPRPLPRVAAPGTTWRRIRDEDVPHILRS  
TLPATALPLRGSTPEDAPAGPPRKTSDAVVQTEEVAAPKTNSSSTSPSLETREPPGAPAG  
GQLSLLGSDVDGPSLAKAPISAPFVHEGLGVAVGGFPASRHGSPSRARVPPFNYVPSPM  
VVAATDSAAEKAPATASATLLE

>sp|Q8NCL9|APCDL\_HUMAN Protein APCDD1-like OS=Homo sapiens GN=APCDD1L PE=2 SV=1

MPAAMLPHYACVLVLLGAHTAPAAGEAGGSCLRWEPHCQQPLPDRVPSTAILPPRLNGPWI  
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GATEADYHLHKVGIVFHSRRALVDVTGRLNQTRAGRDCARRLPARAWLPGALYELRSAR  
AQGDCLEALGLTMHELSLVRVQRRLQPQPRASPRLVEELYLGDHITDPAERRHYRPTGYQ  
RPLQSALHHVQPCPACGLIARSDVHHPPVLPPLALPLHLGGWWVSSGCEVRPAVLFLTR  
LFTFHGHSRSWEGYYHHFSDPACRQPTFTVYAAGRYTRGTPSTRVRGGTELVEVTRAHV  
TPMDQVTTAMLNFSEPPSSCGGAGAWSMGTERDVTATNGCLPLGIRLPHVEYELFKMEQDP  
LGQSLFLIGRPTDGSSPDTPKEKRPTSYQAPLVLCHGEAPDFSRPPQHRPSLQKHPSTGG  
LHIAPFPLPLVLGLAFLHWL

>sp|Q06481|APLP2\_HUMAN Amyloid-like protein 2 OS=Homo sapiens GN=APLP2 PE=1 SV=2

MAATGTAAAAATGRLLLLLVGLTAPALALAGYIEALAANAGTGFAVAEPQIAMFCGKLN  
MHVNIQTGWEPDPTGKSCFETKEEVLQYQCQEMYPELQITNVMEANQRVSIDNWCRRDK  
KQCKSRFVTPFKCLVGEFVSDVLLVPEKCQFFHKERMEVCENHHQHWHTVVKEACLQGMT  
LYSYGMLLPCGVDQFHGTEYVCCPQTKIIGSVSKEEEEEEEEEEEEEDEEDYDVYKSEF  
PTEADLEDFTEAAVDEDEDEEEGEEVVEDRDYYYDTFKGDDYNEENPTEPGSDGTMSDK  
EITHDVKAVCSQEAMTGPCRAVMRWYFDLSKGKCVRFIYGGCGGNRNFESEDYCMAVC  
KAMIPPTPLPTNDVDVYFETSADDNEHARFQKAKEQLEIRHRNRMDRVKKEWEEAELQAK  
NLPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQ  
SDPPRPHRILQALRRYVRAENKDRLHTIRHYQHVLAVDPEKAAQMSQVMTHLHVIEERR  
NQSLSLLYKVPYVAQEIQEEIDELLQEQRADMDQFTASISETPVDVRVSSEESIEIPPFH  
PFHPPALPENEDTQPELYHPMKKSGVGEQDGGGLIGAEKVINSKNKVDENMVIDETLD  
VKEMIFNAERVGGLEERESVGPLREDFSLSSSALIGLLVIAVAIATVIVISLVMLRKRQ  
YGTISHGIVEVDPMLTPEERHLNKMQNHGYENPTYKYLEQMQUI

>sp|P02655|APOC2\_HUMAN Apolipoprotein C-II OS=Homo sapiens GN=APOC2 PE=1 SV=1

MGTRLLPALFLVLLVLGFVQGTQPPQDEMPSTFLTQVKESLSYWESAKTAAQNLYE  
KTYLPAVDEKLRLDYSKSTAAMSTYTGFITDQVLSVLKGEE

>sp|Q13790|APOF\_HUMAN Apolipoprotein F OS=Homo sapiens GN=APOF PE=1 SV=2

MTGLCGYSAPDMRGLRLIMIPVELLLCYLLHPVDATSYGKQTNVLMHFPLSLESQTPSS  
DPLSCQFLHPKSLPGFSHMAPLPKFLVSLALRNALEEAGCQADVWALQLQLYRQGGVNAT  
QVLIQHRLRGLQKGRSTERNVSVEALASALQLLAREQQSTGRVGRSLPTEDCENEKEQAVH  
NVVQLLPGVGTFFYNLTALYYATQNCLGKARERGRDGAIDLGYDLLMTMAGMSGGPMGLA

ISAALKPALRSGVQQLIQYYQDQKDANISQPETTKEGLRAISDVSDLEETTTLASFISEV  
VSSAPYWGWAIIKSYDLDPGAGSLEI

>sp|Q9BPW4|APOL4\_HUMAN Apolipoprotein L4 OS=Homo sapiens GN=APOL4 PE=2 SV=3

MEGAALLKIFVVCIWVQQNHGPTVAGQFQEKRFTEEIEYFQKKVSPVHLKILLTSDE  
AWKRFVRVAELPREEADALYEALKNLTPYVAIEDKDMQQKEQQFREWFLKEFPQIRWKIQ  
ESIERLRVIANEIEKVHRGCVIANVVSGSTGILSVIGVMLAPFTAGLSLSITAAGVGLGI  
ASATAGIASSIVENTYTRSAELTASRLTATSTDQLEALRDILRDITPNVLSFALDFDEAT  
KMIANDVHTLRRSKATVGRPLIAWRYVPIINVETLRTGAPTRIVRKVARNLGKATSGVL  
VVLDVVNLVQDSLHLHGAKSESAESLRQWAQEEENLNELTHIHQSLKAG

>sp|Q9BWU8|APOL6\_HUMAN Apolipoprotein L6 OS=Homo sapiens GN=APOL6 PE=2 SV=1

MDNQAERESEAGVGLQRDEDDAPLCEDELQDGLSPEEKIFLREFPRLKEDLKGNIDKL  
RALADDIDKTHKKFTKANMVATSTAVISGVMSLLGLALAPATGGGSLLLSTAGQLATAA  
GVTSIVSGTLERSKNKEAQAEDILPTYDQEDREDEEEKADYVTAAGKIIYNLRNTLKY  
AKKNVRAFVKLRANPRLANATKRLLTTGQVSSRSRVQVQKAFAGTTLAMTKNARVLGGVM  
SAFSLGYDLATLSKEWKHLKEGARTKFAEELRAKALELERKLTQLYKSLQQKVRSA  
RGVGKDLTGTCETEAYWKELREHVMWLWLCVCLCVCVYVQFT

>sp|Q9NXU5|ARL15\_HUMAN ADP-ribosylation factor-like protein 15 OS=Homo sapiens GN=ARL15  
PE=1 SV=1

MSDLRITEAFLYMDYLCFRALCCKGPPPARPEYDLVCIGLTGSGKTSLLSKLCSESPDNV  
VSTTGFSIKAVPFQNAILNVKELGGADNIRKYWSRYQQSGQVIFVLDASSEDDEAAR  
NELHSALQHPQLCTLPFLILANHQDKPAARSVQEIKKYFELEPLARGKRWILQPCSLDDM  
DALKDSFSQLINLLEEKDHEAVRM

>sp|P36404|ARL2\_HUMAN ADP-ribosylation factor-like protein 2 OS=Homo sapiens GN=ARL2 PE=1  
SV=4

MGLLTILKKMKQKERELRLMLGLDNAGKTTILKKFNGEDIDTISPTLGFNIKTLEHRGF  
KLNIWDVGGQKSLSRYWRNYFESTDGLIWVVDADRQRMQDCQRELQSLVEERLAGATL  
LIFANKQDLPGALSSNAIREVLELDSIRSHHWCIQGCSAVTGENLLPGIDWLLDDISSRI  
FTAD

>sp|Q9NVT9|ARMC1\_HUMAN Armadillo repeat-containing protein 1 OS=Homo sapiens GN=ARMC1  
PE=1 SV=1

MNSSTSTMSEEPDALSVVNQLRDLAADPLNRRRAIVQDQGCLPGLILFMDHPNPPVVHSAL  
LALRYLAECRANREKMKGELGMMLSLQNVIQKTTTPGETKLLASEIYDILQSSNMADGDS  
FNEMNSRRRKAQFFLTGTTNKRAKTVVLHIDGLDDTSRRNLCEEALLKIKGVISFTFQMAV  
QRCVVRIRSDLKAEALASAIAS TKVMKAQQVVKSES GEEMLVPFQDTPVEVEQNTLPDY  
LPEDESPTKEQDKAVSRVGSHPGASWLSTAANFLSRSFYW

>sp|Q5T9G4|ARM12\_HUMAN Armadillo repeat-containing protein 12 OS=Homo sapiens GN=ARMC12  
PE=2 SV=1

MGKSIPQYLGQLDIRKSVVSLATGAGAIYLLYKAIKAGIKCKPPLCSNSPICARLAVER  
ERHGRDSGELRRLNSLECKQDEYAKSMILHSITRCVYLLEAEASACTDDIVLLGYMLD  
DKDNSVKTQALNTLKA FSGIRKFR LKIQEHSIKVLELISTIWDTELHIAGLRLLNNLPLP  
DYVHPQLRRVMPALMEILQSDYILAQVQAVRLLSYLAQKNDLLYDILNCQVHSNFLNLFQ  
PTQSGSLLYEVLVFAERLSEGRNAPHYHVVKWHYNEQSLHESLFGEESRLADRLLALVIH  
PEEDVQIQACKVIVSLQYPQDLRARPSSCQPSRSYFKNTE

>sp|Q5T2S8|ARMC4\_HUMAN Armadillo repeat-containing protein 4 OS=Homo sapiens GN=ARMC4 PE=1 SV=1

MGVALRKLTQWTAAGHGTGILEITPLNEAILKEIIVFVESFIYKHPQEAKFVFVEPLEWN  
TSLAPSAFESGYVSETTVKSEEVDKNGQPLLFLSVPQIKIRSFQLSRLLLIAKTGKLG  
EAQACVEANRDPVILGSDYNTMKENSIALNILGKITRDDDPESEIKMKIAMLLKQLDL  
HLLNHSCLKHISLEISLSPMTVKKDIELLRFSGKGNQTVLESIEYTSDEYFSNGCRAPPW  
RQIRGEICYVLVKPHDGETLCITCSAGGVFLNGGKTDDGEDVNRYERKGSYKLVTLFLRE  
KSPKFSENMSKLGISFSEDQQKEKDQLGKAPKKEEAAALRKDISGSDKRSLEKNQINFWR  
NQMTKRWEPSLNWKTTVNYKGKSAKEIQEDKHTGKLEKPRPSVSHGRAQLLRKSAEKIE  
ETVSDSSSESEDEEPPDHRQEASADLPSEYWQIQKLVKYKGGNQTATVIALCSMRDFS  
LAQETCQLAIRDVGGLVLIINLETDEVKCKIGSLKILKEISHNPQIRQNIQVLDGGLPIM  
VNILDSPHKSCLKAAETIANVAKFKRARRVVRQHGGITKLVALLDCAHDSTKPAQSSLY  
EARDVEVARCGALALWSCSKSHTNKEAIRKAGGIPLLARLLKTSHENMLIPVVGTLQECA  
SEENYRAAIIKAERIIENLVKNLSENEQLQEHCAAIYQCAEDKETRDLVRLHGGLKPLA  
SLLNNTDNKERLAAVTGAIWKCSISKENVTKFREYKAIETLVGLLTDQPEEVLNVVGAL  
GECCQERENRIVRKCGGIQPLVNLLVGINQALLVNVTKAVGACAVEPESMMIIDRLDGV  
RLLWSLLKNPHDPVKASAAWALCPCIKNAKDAGEMVRSFVGGLIVNLLKSDNKEVLAS  
VCAAITNIAKDQENLAVITDHGVVPLLSKLANTNNKLRHHLAEAISRCCMWGRNRVAFG  
EHKAVAPLVRYLKSNDTNVHRATAQALYQLSEADNCITMHENGAVKLLLDVMGSPDQDL  
QEAAGCISNIRRLALATEKARYT

>sp|P48448|AL3B2\_HUMAN Aldehyde dehydrogenase family 3 member B2 OS=Homo sapiens GN=ALDH3B2 PE=2 SV=3

MKDEPRSTNLFMKLDSVFIWKEPFGVLIIAPWNYPLNLTLVLLVGALAAGSCVVLKPSE  
ISQGTEKVLAEVLPQYLDQSCFAVVLGGPQETGQLEHKLDIFFTGSPRVGKIVMTAAT  
KHLTPVTLELGGKNPCYVDDNCDPQTVANRVAWFCYFNAGQTCVAPDYVLCSPEMQERLL  
PALQSTITRFYGGDPQSSPNLGHIIINQKQFQRLRALLGCSRVAIGGQSNESDRYIAPT  
VDVQETEPVMQEEIFGPILPIVNVQSVDEAIKFINRQEKPLALYAFSNESSQVNVQMLERT  
SSGSFGGNEGFTYISLLSVPFGGVGHSGMGRYHGKFTFDTFSHHRTCLLAPSGLEKLKEI  
HYPPYTDWNQQLLRWGMGSQSCTLL

>sp|P20292|AL5AP\_HUMAN Arachidonate 5-lipoxygenase-activating protein OS=Homo sapiens GN=ALOX5AP PE=1 SV=2

MDQETGVNVVLLAIVTLISVVQNGFFAHKVEHESRTQNGRSFQRTGTLAFAERVYTANQNC  
VDAYPTFLAVLWSAGLLCSQVPAAAFAGLMYLFVRQKYFVGYLGERQSTPGYIFGKRIIL  
FLFLMSVAGIFNYLIFFFGSDFENYIKTISTTISPLLLIP

>sp|P49419|AL7A1\_HUMAN Alpha-aminoadipic semialdehyde dehydrogenase OS=Homo sapiens GN=ALDH7A1 PE=1 SV=5

MWRLPRALCVHAAKTSKLSGPWSRPAAFMSTLLINQPQYAWLKELGLREENEGVYNGSWG  
GRGEVITTYCPANNEPIARVRQASVADYEETVKKAREAWKIWADIPAPKRGEIVRQIGDA  
LREKIQVLGSLVSLEMKGILVEGVGEVQEYVDICDYAVGLSRMIGGPILPSERSGHALIE  
QWNPVGLVGIITAFNFPVAVYGWNNAIAMICGNVCLWKGAPTTSLISAVTKIIIAKVLED  
NKLPGAICSLTCGGADIGTAMAKDERVNLLSFTGSTQVGKQVGLMVQERFGRSLLELGGN  
NAIIAFEDADLSLVPSALFAAVGTAGQRCTTARRLFIHESIHDDEVNRLKKAYAQIRVG  
NPWDPNVLYGPLHTKQAVSMFLGAVEEAKKEGGTVVYGGKVMRPGNYVEPTIVTGLGHD  
ASIAHTETTFAPILYVFKFKNEEEVFAWNNEVKQGLSSSIFTKDLGRIFRWLGPKGSDCGI

VNVNIPTSGAEIGGAFGGKEHTGGGRESGSDAWKQYMRRSTCTINYSKDLPLAQGIKFQ

>sp|P02768|ALBU\_HUMAN Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

MKWVTFISLLFLFSSAYSRGVFRDDAHKSEVAHRFKDLGEENFKALVLI AFAQYLQQCPF  
EDHVKLVNEVTEFAKTCVADESAENCDSLHTLFGDKLCTVATLRETYGEMADCCAKQEP  
ERNECFLQHKDDNP NLPRLVRPEVDVMCTAFHDNEETFLKKYLYEIARRHPYFYAPELLF  
FAKRYKAAFTGCCAADKAACLLPKLDELDEGKASSAKQRLKCASLQKFGERAFKAWAV  
ARLSQRFPAEFAEVSKLVTDLT KVHTECCHGDLLECADDRADLAKYICENQDSISSKLK  
ECCEKPLLEKSHCIAEVENDEMPADLP SLAADFVESKDVCKNYAEAKDVFLGMFLYEYAR  
RHPDYSVVLRLRLAKTYETTLKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCSELF  
QLGEYKFQNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCKHPEAKRMPCAEDYLSVV  
LNQLCVLHEKTPVSDRVTKCCTESLVNRRPCFSALEVDETYVPKEFNAETFTFHADICTL  
SEKERQIKKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCKADDKETCFAEEGKKLV  
AASQAALGL

>sp|P05091|ALDH2\_HUMAN Aldehyde dehydrogenase, mitochondrial OS=Homo sapiens GN=ALDH2  
PE=1 SV=2

MLRAAARFGPRLGRRLLSAAATQAVPAPNQQPEVFCNQIFINNEWHDVSRKTFPTVNPS  
TGEVICQVAEGDKEDVDKAVKAARAAFQLGSPWRRMDASHRGRLNRLADLIERDRTYLA  
ALETLDNGKPYVISYLVLDMLVKCLRYYAGWADKYHGKTIPIDGDFFSYTRHEPVGVCG  
QIIPWNFPLLMQAWKLG PALATGNVVVMKVAEQTPLTALYVANLIKEAGFPPGVVNIVPG  
FGPTAGAAIASHEDVDKVAFTGSTEIGRVIQVAAGSSNLKRV TLELGGKSPNIIMSDADM  
DWAVEQAHFALFFNQGCCAGSRTFVQEDIYDEFVERSVARAKSRVGNPFDSKTEQGP  
QVDETQFKKILGYINTGKQEGAKLLCGGGIAADRGYFIQPTVFGDVQDGMTIAKEEIFGP  
VMQILKFKTIEEVGRANNSTYGLAAAVFTKDLKANYLSQALQAGTVWVNCYDVFGAQS  
PFGGYKMSGSGRELGEYGLQAYTEVKTVTVKVPQKNS

>sp|P05062|ALDOB\_HUMAN Fructose-bisphosphate aldolase B OS=Homo sapiens GN=ALDOB PE=1  
SV=2

MAHRFPALTQEKKELSEIAQSIVANGKILAADESVGTMGNRLQRIKVENTEENRRQFR  
EILFSVDSSINQSIGGVILFHETLYQKDSQGKLF RNILKEGIVVGIKLDQGGAPLAGTN  
KETTIQGLDGLSERCAQYKKGVDGFKWRAVLRIADQCPSSLAIQENANALARYASICQQ  
NGLVPIVEPEVIPDGDHDLHCQYVTEKVLAAVYKALNDHHVYLEGTLLKPNMVTAGHAC  
TKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDATLNLNAINLCPLPKPWKLSF  
SYGRALQASALAAWGGKAANKEATQEA FMKRAMANCQAAKGQYVHTGSSGAASTQSLFTA  
CYTY

>sp|Q2TAA5|ALG11\_HUMAN GDP-Man:Man(3)GlcNAc(2)-PP-Do1 alpha-1,2-mannosyltransferase  
OS=Homo sapiens GN=ALG11 PE=1 SV=2

MAAGERSWCLCKLLRFFYSLFFPGLIVCGTLCVCLVIVLWGIRLLLQRKKKLVSTSKNGK  
NQMVIAFFHPYCNAGGGGERVLWCALRALQKKYPEAVYVVYTGDNVNVNGQQILEGAFRRF  
NIRLIHPVQFVFLRKRYLVEDSLYPHFTLLGQSLGSIFLWEALMQCVPDVYIDSMGYAF  
TLPLFKYIGGCQVGSVYHYPTISTDMLS VVKNQNIGFNNAAFITRNPFLSKVKLIYYL F  
AFIYGLVGSCSDVMVNSSWTLNHILSLWKVGNCTNIVYPPCDVQTFLDIPLHEKKMTPG  
HLLVSVGQFRPEKNHPLQIRAFKLLNKKMVESPPSLKLV LIGGCRNKDDELRVNQLRRL  
SEDLGVQEYVEFKINIPFDELKNYLSEATIGLHTMWNEHFGIGVVECMAGTIILAHNSG  
GPKLDIVVPHEGDITGFLAESEEDYAETIAHILSMSAEKRLQIRKSARASVSRFSDQEFE  
VTFLLSVEKLFK

>sp|Q92685|ALG3\_HUMAN Dol-P-Man:Man(5)GlcNAc(2)-PP-Dol alpha-1,3-mannosyltransferase  
OS=Homo sapiens GN=ALG3 PE=1 SV=1

MAAGLRKRGRSGSAAQAEGLCKQWLQRAWQERRLLREPRYTLLVAACLCLAEVGITFWV  
IHRVAYTEIDWKAYMAEVEGVINGTYDYTLQGDTGPLVYPAGFVYIFMGLYYATSRGTD  
IRMAQNIFAVLYLATLLLVFLIYHQTCVPPFVFFMCCASYRVHSIFVLRFLNDPVAMV  
LLFLSINLLLAQRWGWGCCFFSLAVSVKMNVLFLFAPGLLFLLLTQFGFRGALPKLGICAG  
LQVVGLPFLLENPSGYLSRSFDLGRQFLFHWTVNWRFLPEALFLHRAFLALLTAHLTL  
LLLFAICRWHRTGESILSLRDPSKRKVPPQPLTPNQIVSTLFTSNFIGICFSRSLHYQF  
YVWYFHTLPYLLWAMPARWLTHLLRLLVLGLIELSWNTYPSTSCSSAALHICHAVILLQL  
WLGPPFPFKSTQHSKKAH

>sp|Q9Y672|ALG6\_HUMAN Dolichyl pyrophosphate Man9GlcNAc2 alpha-1,3-glucosyltransferase  
OS=Homo sapiens GN=ALG6 PE=1 SV=1

MEKWYLMTVVVLIGLTVRWTVSLNSYSGAGKPPMGDYEQRHWQEITFNLVPKQWYFNS  
SDNNLQYWGLDYPPLTAYHSLLCAYVAKFINPDWIALHTSRGYESQAHKLFMRRTTVLIAD  
LLIYIPAVVLYCCCLKEISTKKKIANALCILLYPGLILIDYGHFQYNSVSLGFALWGVLG  
ISDCDLLGSLAFCLAINYQMELYHALPFFCFLLGKCFKKGLKGKGFVLLVKLACIVVA  
SFVLCWLPFFTEREQTLQVLRRLFPVDRGLFEDKVANIWCFSNVFLKIKDILPRHIQLIM  
SFCFTFLSLLPACIKLILQPSSKGFKFTLVSCALSFFLFSFQVHEKSILLVSLPVCLVLS  
EIPFMSTWFLLVSTFSMLPLLLKDELLMPSVVTMAFFIACVTSFSIFEKTSEEELQLKS  
FSISVRKYLPCFTFLSRIIQYLFILISVITMVLLTMTVTLDPPQKLPDLFSVLVCFVSCL  
NFLFFLVYFNIIIMWDSKSGRNQKKIS

>sp|Q6NS38|ALKB2\_HUMAN DNA oxidative demethylase ALKBH2 OS=Homo sapiens GN=ALKBH2 PE=1  
SV=1

MDRFLVKGAQGGLLRKQEEQEPTGEEPVLGGDKESTRKRPRREAPGNGGHSAGPSWRHI  
RAEGLDCSYTVLFGKAEADEIFQELEKEVEYFTGALARVQVFGKWHSVPRKQATYGDAGL  
TYTFSGLTSPKPWIPVLERIRDHVSQVGTGTFNFVLINRYKDGCDHIGHRDDERELAP  
GSPIASVSFGACRDFVFRHKDSRGKSPSRRVAVVRLPLAHGSLMMNHPNTNHWYHSLPV  
RKKVLAPRVNLTFRKILLTKK

>sp|Q9NXW9|ALKB4\_HUMAN Alpha-ketoglutarate-dependent dioxygenase alkB homolog 4 OS=Homo  
sapiens GN=ALKBH4 PE=1 SV=1

MAAAAETPEVLRECGCKGIRTCLICERQGRSDPPWELPPAKTYRFIYCSDTGWAVGTEE  
SDFEGWAFPPGVMILEDFTREEEAELVRLMDRDPWKLSQSGRRKQDYGPKNFRKQKL  
KTEGFCGLPSFSREVVRMGLYPGLEGRPVEQCNLDYCPERGSIDPHLDDAWLWGERL  
VSLNLLSPTVLSMCREAPGSLLLCSAPSAAPEALVDSVIAPSRSVLCQEVEVAIPLPARS  
LLVLGTGAARHQWKHAIHRRHIEARRVCVTFRELSAEFGPGGRQQELGQELLRIALSFAQGR  
PV

>sp|Q96BT7|ALKB8\_HUMAN Alkylated DNA repair protein alkB homolog 8 OS=Homo sapiens  
GN=ALKBH8 PE=1 SV=2

MDSNHQSNYKLSKTEKKFLRKQIKAKHTLLRHEGIETVSYATQSLVVANGGLGNGVSRNQ  
LLPVLEKCGLDALLMPPNKPYSFARYRTTEESKRAYVTLNGKEVDDLQKITLYLNFV  
EKVQWKELRPQALPPGLMVVEEIIISSEEEKMLLESVDWTDNQNQSKSLKHRRVKHFG  
YEFHYENNVDKDKPLSGGLPDICESFLEKWLKGYIKHKPDQMTINQYEPGQGIPIAHID  
THSAFEDEIVSLSLGSEIVMDFKHPDGIAPVVMLPRRSLVMTGESRYLWTHGITCRKFD  
TVQASESLKSGIITSVDGDLTSLKRGRLTSFTFRKVRQTPCNC SYPLVCDSQRKETPPSF

PESDKEASRLEQEYVHQVYEEIAGHFSSTRHTPWPHIVEFLKALPSGSIVADIGCGNGKY  
LGINKELYMIGCDRSQNLVDICRERQFQAFVCDALAVPVRSGSDACISIAVIHHFATAE  
RRVAALQEIVRLLRPGGKALIYVWAMEQEYNKQKSKYL RGNRNSQGKKEEMNSDTSVQRS  
LVEQMRDMGSRDSASSVPRINDSQEGGNSRQVSN SKLPVHVNRTSFYSDVLVPWHLKG  
NPDKGKPVPEFGPIGSQDPSPVFHRYYHVFREGELEGACRTVSDVRILQSYDQGNWCVI  
LQKA

>sp|P30533|AMRP\_HUMAN Alpha-2-macroglobulin receptor-associated protein OS=Homo sapiens  
GN=LRPAP1 PE=1 SV=1

MAPRRVRSFLRGLPALLLLLLFLGPWPAASHGGKYSREKNQPKPSPKRESGEEFRMEKLN  
QLWEKAQRLHLPPVRLAELHADLKIQRDELAWKKLKDGLDEDGEKEARLIRNLNVILA  
KYGLDGKKDARQVTSNLSGTQEDGLDDPRLEKLWHKAKTSGKFSGEELDKLWREFLHHK  
EKVHEYENVLLETLSRTEEIHENVISPSDLSDIKGSVLHSRHTELKEKLR SINQGLDRLRR  
VSHQGYSTEAEEFEEPRVIDLWDLAQSANLTDKELEAFREELKHFEAKIEKHNHYQKQLEI  
AHEKLRHAESVGDGERVSRREKHALLLEGRTKELGYTVKKHLQDLSGRISRARNEL

>sp|Q9UJX6|ANC2\_HUMAN Anaphase-promoting complex subunit 2 OS=Homo sapiens GN=ANAPC2 PE=1  
SV=1

MAAAVVVAEGSDSRPGQELLVAWNTVSTGLVPPAALGLVSSRTSGAVPPKEEELRAAVE  
VLRGHLHLSVLEEFVEVLQNDLQANISPEFWNAISQCENSADEPQCLLLLLDAFGLLES  
RLDPYLRSLLELLEKWTRLGLLMGTAQGLREEVHTMLRGVLFFSTPRTFQEMIQRLYGCF  
LRVYMQSKRKGGEGTDPELEGELDSRYARRRYRLLQSPLCAGCSSDKQQCWCRQALEQF  
HQLSQVLHRLSLLERSAEAVTTTLHQVTRERMEDRCRGEYERSFLREFHKWIERVVGWL  
GKVFLQDGPARPASPEAGNTLRWRCHVQRFFYRIYASLRIEELFSIVRDFPDSRPAIED  
LKYCLERTDQRQQLLVSLKAALETRLHPGVNTCDIITLYISAIALRVLDPSMVILEVA  
CEPIRRYLRTREDTVRQIVAGLTGSDGTGDLAVELSKTDPASLETGQDSEDDSGEPEDW  
VPDPVDADPGKSSSKRRSSDIISLLVSIYGSKDLFINEYRSLADRLHQQFSFSPEREIR  
NVELLKLRFGEAPMHFCEVMLKDMADSRRINANIREEDEKRPAAEQPPFGVYAVILSSEF  
WPPFKDEKLEVPEDIRAALAYCKKYEQLKAMRTLSWKHTLGLVTMDVELADRTL SAVT  
PVQAVILLYFQDQASWLEELSKAVKMPVALLRRRMSVWLQQGVLREEPPGTFSVIEEER  
PQDRDNMVLIDSDESDSGMASQADQKEEELLLFWTYIQAMLTNLESLDRIYNMLRMF  
VVTGPALAEIDLQELQGYLQKKVRDQQLVYSAGVYRLPKNCS

>sp|P16860|ANFB\_HUMAN Natriuretic peptides B OS=Homo sapiens GN=NPPB PE=1 SV=1

MDPQTAPSRAALLLLFLHLAFLGGRSHPLGSPGSASDLETSGLQEQRNHLQGKLSLQVE  
QTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPRSPKMVQSGSGCFGRKMDRI  
SSSSGLGCKVLRRH

>sp|P53677|AP3M2\_HUMAN AP-3 complex subunit mu-2 OS=Homo sapiens GN=AP3M2 PE=2 SV=1

MIHSLFLINSSGDI FLEKHWSVVSRSVCDYFFEAQERATEAENVPPVIPTPHHYLLSVY  
RHKIFFVAVIQTEVPPLFVIEFLHRVDTFQDYFGVCSEPVIKDNVVVVYEVLEEMLDNG  
FPLATESNILKELIKPPTILRTVVNTITGSTNVGDQLPTGQLSVVPWRRGTGVKYNNEAY  
FDVIEEIDAIIDKSGSTITAEIQGVIDACVKLTGMPDLTSLFMNPRLLDDVSFHPCVRFK  
RWESERILSFIPDGNFRLLSYHVSANLVAIPVYVKHNISFRDSSSLGRFEITVGPQKT  
MGKTIEGVTVTSQMPKGVLNMSLTSPSQGTHTFDPVTKMLSWDVGKINPQKLPSLKGTM SL  
QAGASKPDENPTINLQFKIQQLAISGLKVNRLDMYGEKYKPFKGIKYMTKAGKFQVRT

>sp|P50583|AP4A\_HUMAN Bis(5'-nucleosyl)-tetrphosphatase [asymmetrical] OS=Homo sapiens  
GN=NUDT2 PE=1 SV=3

MALRACGLIIFRRCLIPKVDNNAIEFLLQASDGIHHWTPPKGHVEPGEDDLETALRETQ  
EEAGIEAGQLTIIIEGFKRELNIVARNKPKTVIYWLAEVKDYDVEIRLSHEHQAYRWLGLE  
EACQLAQFKEMKAALQEGHQFLCSIEA

>sp|Q9UPM8|AP4E1\_HUMAN AP-4 complex subunit epsilon-1 OS=Homo sapiens GN=AP4E1 PE=1 SV=2

MSDIVEKLTALPGLFLQNQPGGGPAAAKASFSSRLGSLVRGITALTSKHEEEKLIQQEL  
SSLKATVSAPTTTLKMMKECMVRLIYCEMLGYDASFGYIHAIKLAQQGNLLEKRVGYLAV  
SLFLHESHELLLLLNTVVKDLQSTNLVEVCMALTIVSQIFPCEMIPAVLPLIEDKLQHS  
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>sp|O00189|AP4M1\_HUMAN AP-4 complex subunit mu-1 OS=Homo sapiens GN=AP4M1 PE=1 SV=2

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>sp|Q9HOR1|AP5M1\_HUMAN AP-5 complex subunit mu-1 OS=Homo sapiens GN=AP5M1 PE=1 SV=2

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>sp|O14727|APAF\_HUMAN Apoptotic protease-activating factor 1 OS=Homo sapiens GN=APAF1  
PE=1 SV=2



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>sp|Q13794|APR\_HUMAN Phorbol-12-myristate-13-acetate-induced protein 1 OS=Homo sapiens  
GN=PMAIP1 PE=1 SV=1

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>sp|P07741|APT\_HUMAN Adenine phosphoribosyltransferase OS=Homo sapiens GN=APRT PE=1 SV=2

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>sp|Q8IXF9|AQ12A\_HUMAN Aquaporin-12A OS=Homo sapiens GN=AQP12A PE=2 SV=1

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>sp|P41181|AQP2\_HUMAN Aquaporin-2 OS=Homo sapiens GN=AQP2 PE=1 SV=1

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>sp|Q13520|AQP6\_HUMAN Aquaporin-6 OS=Homo sapiens GN=AQP6 PE=2 SV=2

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>sp|O15085|ARHGB\_HUMAN Rho guanine nucleotide exchange factor 11 OS=Homo sapiens  
GN=ARHGEF11 PE=1 SV=1

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>sp|Q96PE2|ARHGH\_HUMAN Rho guanine nucleotide exchange factor 17 OS=Homo sapiens  
GN=ARHGEF17 PE=1 SV=1

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>sp|Q8IW93|ARHGJ\_HUMAN Rho guanine nucleotide exchange factor 19 OS=Homo sapiens  
GN=ARHGEF19 PE=1 SV=1

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>sp|Q99856|ARI3A\_HUMAN AT-rich interactive domain-containing protein 3A OS=Homo sapiens  
GN=ARID3A PE=1 SV=2

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>sp|Q4LE39|ARI4B\_HUMAN AT-rich interactive domain-containing protein 4B OS=Homo sapiens  
GN=ARID4B PE=1 SV=2

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>sp|Q7L311|ARMX2\_HUMAN Armadillo repeat-containing X-linked protein 2 OS=Homo sapiens  
GN=ARMCX2 PE=2 SV=1

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RGRGRRPVAMQKRPFPYEIDEILGVRDLRKVLALLQKSDDPFIQQVALLTSLNNANYSCN  
QETIRKLGLPIIANMINKTDPHIKEKALMAMNNLSENYENQGRLQVYMNKVMDDIMASN  
LNSAVQVVGKFLTNMTITNDYQHLLVNSIANFFRLLSQGGGKIKVEILKILSNFAENPD  
MLKKLLSTQVPASFSSLYNSYVESEILINALTLFEIYDNLRAEVFNREFNKGSLFYLC  
TTSGVCVKKIRALANHHDLLVKVKVIKLVNKF

>sp|Q6P1M9|ARMX5\_HUMAN Armadillo repeat-containing X-linked protein 5 OS=Homo sapiens  
GN=ARMCX5 PE=1 SV=1

MVDSGTEARARGKAEAGLDGISGPATARVNGKTQAEAVAEELKTESVTQAKAGDGAMT  
RTHVTYREAMAVTREVIVKVEDTTKTRVMVETKTKPLAERSIVPQTKSKAMPMSRVSTVT  
KSEVKVVAVIEANIRSYAKSHDKANTGSRPDRREETSIGMKSSDEDEENICSWFWTGEEP  
SVGSWFPEEETSLQVYKPLPKIQEKPKPTHKPTLTIKQKVIASRARIYIVLPVEGGEQ  
SLPPEGNWTLVETLIETPLGIRPLTKIPPYHGPYYQTLAEIKKQIRQREKYGNPKACHC  
KSRGFSLEPKFEDKLVALLLKTKDPFIHEIATMIMGISPAYPFTQDIHHDVGITVMENL  
VNNPNVKEHPGALSMVDDSSSESSEEPKSGESYIHQVCKGIISCPLNSPVQLAGLKLGLH  
SIKFEDHYVITSYIPDFLTLLNKGSVKTKFYVLKVFSLSKNHANTRELISAKVLSLVA  
PFNKNESKANILNIIEIFENINFQFKTKAKLFTKEKFTKSELISIFQEAQFGQKLQDLA  
EHSDPEVRDKVIRLILKL

>sp|P55087|AQP4\_HUMAN Aquaporin-4 OS=Homo sapiens GN=AQP4 PE=1 SV=2

MSDRPTARRWGKCGPLCTRENIMVAFKGVWTQAFWKAVTAEFLAMLIFVLLSLGSTINWG  
GTEKPLPVDMLISLCFGLSIATMVQCFCGHISGGHINPAVTAMVCTRKISIAKSVFYIA  
AQCLGAIIGAGILYLVTPPSVVGGLGVTMVHGNTAGHGLLVELIITFQLVFTIFASCDS  
KRTDVTGSIALAIGFSVAIGHLFAINYTGASMNPARSFGPAVIMGNWENHWIYWVGPIIG  
AVLAGGLYEYVFCPDVEFKRRFKEAFSKAAQQTGKSYMEVEDNRSQVETDDLILKPGVVH  
VIDVDRGEEKKGDQSGEVLSSV

>sp|P55064|AQP5\_HUMAN Aquaporin-5 OS=Homo sapiens GN=AQP5 PE=1 SV=1

MKKEVCSVAFLKAVFAEFLATLIFVFFGLGSALKWPSALPTILQIALAFGLAIGTLAQAL  
GPVSGGHINPAITLALLVGNQISLLRAFFYVAAQLVGAIAAGILYGVAPLNARGNLAVN  
ALNNTTQGGAMVVELILTFQLALCIFASTDSRRTSPVGPALSIGLSVTLGHLVGIYFT  
GCSMNPARSFGPAVVMNRFSPAHWVFWGPIVGAVLAAILYFYLLFPNSLSLSERVAIIK  
GTYPDEDWEEQREERKKTMELTTR

>sp|Q6NSI1|AR26L\_HUMAN Putative ankyrin repeat domain-containing protein 26-like protein  
OS=Homo sapiens GN=ANKRD26P1 PE=5 SV=2

MRRSSGFGGQKGQGPSCSFTGCWCCRGDVAESDDSPFAQCGYNIQEKHLGKLHRAASRG  
EVSKVECILSSGSADLDERDKKRTALHLACANGHPEVVALLVDRGCQLDVFDKNRTAL  
LKAVQCQEEECATILLEHGADPLDPVYGNTTLHYAIYNEDIPMTKLLHHANIESANK  
DELTPLLAVHEQKQMEDFLRKQKENLTAVKLESIHQVMSEYKENETPRNPQNSNPEGT  
SNKMACLGEGAAGAKVDEIPGNPVKRLFNKPSIDDSRPMSANEDFDFDTEEKATEPANGK  
RQNGMGIIESAPQEHTNNENI

>sp|Q9Y2Y0|AR2BP\_HUMAN ADP-ribosylation factor-like protein 2-binding protein OS=Homo sapiens GN=ARL2BP PE=1 SV=1

MDALEGESFALSFSASDAEFDVVGYLEDIIMDDEFQLLQRNFMKYYLEFEDTEENKL  
IYTPIFNEYISLVEKYIEEQLLQRIPEFNMAAFTTTLQHHKDEVAGDIFDMLLTFTDFLA  
FKEMFLDYRAEKEGRGLDLSSGLVVTSLCKSSSLPASQNNLRH

>sp|P56211|ARP19\_HUMAN cAMP-regulated phosphoprotein 19 OS=Homo sapiens GN=ARPP19 PE=1 SV=2

MSAEVPEAASAEQKEMEDKVTSPKAEAEAKLKARYPHLGQKPGGSDFLRKRLQKGQKYF  
DSGDYNMAKAKMKNQLPTAAPDKTEVTGDHIPTPQDLPRKPSLVASKLAG

>sp|Q9H981|ARP8\_HUMAN Actin-related protein 8 OS=Homo sapiens GN=ACTR8 PE=1 SV=2

MTQAEKGDTEGKEKEGGEKEKEQGVKRPVLPALVPESLQEIQSNFIIVIHGPGSTTLRI  
GRATDTLPASIPHVIARRHKQQGQPLYKDSWLLREGLNKPESENRQNGLMVDQAIWSK  
KMSGTRRIPVSPEQARSYNQMRPAILDHCSGNKWTNTSHHPEYLVGEEALYVNPLDCY  
NIHWPIRRGQLNIHPPGGSLTAVLADIEVIWSHAIQKYLEIPLKDLKYRCILLIPDIY  
NKQHVKELVNMILMKMGFSGIVVHQESVCATYGSGLSSTCIVDVGDKTSVCCVEDGVSH  
RNTRLCLAYGSDVSRFCFYWLMQRAGFPYRECQLTNKMDCLLLQHLKETFCHLDQDISGL  
QDHEFQIRHPDSPALLYQFRLGDEKLQAPMALFYFATFGIVGQKMTTLQHRSGDPEDPH  
DEHYLLATQSKQEQAATADRKSASKPIGFEGDLRGQSSDLPERLHSQEVDLGSAGQDG  
LMAGNDSEEALTALMSRKTAISLFEGKALGLDKAILHSIDCCSSDDTKKKMYSSILVVG  
GLMFHKAQEFQLHRIILNKMPFSFRRIIENVDVITRPKMDPRLIAWKGGAVLACLDTTQE  
LWIYQREWQRFQVRMLRERAAFW

>sp|O15144|ARPC2\_HUMAN Actin-related protein 2/3 complex subunit 2 OS=Homo sapiens GN=ARPC2 PE=1 SV=1

MILLEVNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSIS  
LKFYKELQAHGADELLKRVYGSFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNC  
FASVFEKYFQFQEEGKEGENRAVIHYRDEETMYVESKKDRVTVVSTVFKDDDDVIGKV  
FMQEFKEGRRASHTAPQVLFSSHREPPLELKDTAAVGDNIGYITFVLFPRHTNASARDNT  
INLIHTFRDYLHYHIKSKAYIHTMRAKTSDFLKVLRNRPDAEKKEMKTITGKTFSSR

>sp|Q96B67|ARRD3\_HUMAN Arrestin domain-containing protein 3 OS=Homo sapiens GN=ARRDC3 PE=1 SV=1

MVLGKVKSLTISFDCLNDSNPVYSSGDTVSGRVNLEVTGEIRVKSLKIHARGHAKVRWT  
ESRNAGSNTAYTQNYTEEVEYFNHKDILIGHERDDNSEEGFHTIHSGRHEYAFSFLPQ  
TPLATSFEGRHGSVRYWVKAELHRPWLLPVKLKKEFTVFEHIDINTPSLLSPQAGTKEKT  
LCCWFCTSGPISLSAKIERKGYTPGESIQIFAEIENCSSRMVVPKAAIYQTQAFYAKGKM  
KEVKQLVANLRGESLSSGKTETWNGKLLKIPPVSPSILDCSIRVEYSLMVYVDIPGAMD  
LFLNLPLVIGTIPLHPFGSRTSSVSSQCSMNMNWLSLSLPERPEAPPSYAEVVTEEQRRN  
NLAPVSACDDFERALQGFLFAYIQEFRFLPPPLYSEIDPNPDQSADDRPSCPSR

>sp|P15289|ARSA\_HUMAN Arylsulfatase A OS=Homo sapiens GN=ARSA PE=1 SV=3

MGAPRLLLLALAAGLAVARPPNIVLIFADDLGYGDLGCYGHPSSTTPNLDQLAAGGLRFT  
DFYVPVSLCTPSRAALLTGRLPVRMGMPGVLPSSRGGLPLEEVTVAEVLAAARGYLTGM  
AGKWHLGVGPEGAFLPPHQGFHRLFLGIPYSHDQGPCQNLTCFPPATPCDGGCDQGLVIP  
LLANLSVEAQPWPPLGLEARYMAFAHDLMAQAQRQDRPFLLYASHHHTYPQFSGQSFAE  
RSGRGPFGDSLMELDAAVGTLMTAIGDLGLEETLVIFTADNGPETMRMSRGGCSGLLRC  
GKGTTYEGGVREPALAFWPGHIAPGVTHELASSLDLLPTLAALAGAPLPNVTLDGFDLSP

LLLGTKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFFTQGSAHSDTTADPACHASSSL  
TAHEPPLLYDLKDPGENYNLLGGVAGATPEVLQALKQLQLLKAQLDAAVTFGPSQVARG  
EDPALQICCHPGCTPRPACCHCPDPA

>sp|P18440|ARY1\_HUMAN Arylamine N-acetyltransferase 1 OS=Homo sapiens GN=NAT1 PE=1 SV=2  
MDIEAYLERIGYKKSRLDLETLDILQHQIRAVPFENLNHCGDAMDLEAIFDQVV  
RRNRGGWCLQVNHLLYWALTTIGFETTMLGGVYSTPAKKYSTGMIHLLLQVTIDGRNYI  
VDAGFGRSYQMWQPLELISGKDQPVPCVFRLTEENGFWYLDQIRREQYIPNEEFLHSDL  
LEDISKYRKIYSFTLKPRTIEDFESMNTYLQTSPPSVFTSKSFCSLQTPDGVHCLVGFTLT  
HRRFNYKDNTDLIEFKLTSEEEIEKVLKNIFNISLQRKLVPHGDRFFTI

>sp|P11245|ARY2\_HUMAN Arylamine N-acetyltransferase 2 OS=Homo sapiens GN=NAT2 PE=1 SV=1  
MDIEAYFERIGYKNSRLDLETLDILEHQIRAVPFENLNMHCGQAMELGLEAIFDHIV  
RRNRGGWCLQVNNLLYWALTTIGFQTTMLGGYFYIPPVKNYSTGMVHLLLQVTIDGRNYI  
VDAGSGSSSQMWQPLELISGKDQPVPCIFCLTEERGIWYLDQIRREQYITNKEFLNSHL  
LPKKKHQKIYLFTEPRTIEDFESMNTYLQTSPTSSFITTSFCSLQTPGQVYCLVGFI  
YRKFNKYDNTDLVEFKLTTEEEVEVLKNIFKISLGRNLVPGDGSLLTI

>sp|Q9NR71|ASAH2\_HUMAN Neutral ceramidase OS=Homo sapiens GN=ASAH2 PE=1 SV=2  
MAKRTFSNLETFLIFLLVMMSAITVALLSLLFITSGTIENHKDLGGHFFSTTQSPPATQG  
STAAQRSTATQHSTATQSSTATQTSPVPLTPESPLFQNFSGYHIGVGRADCTGQVADINL  
MGYKSGQNAQGILTRLYSRAFIAPDGSNRTVFVSIDIGMVSQRLRLEVLNRLQSKYG  
SLYRRDNVILSGTHTHSGPAGYFYQYTVFVIASEGFSNQTFQHMVTGILKSIDIAHTNMKP  
GKIFINKGNDGVQINRSPYSYLQNPQSERARYSSNTDKEMIVLKMVDLNGDDLGLISWF  
AIHPVSMNNSNHLVNSDNVGYASYLLEQEKNGYLPQGPFVAAFASSNLGDVSPNIGP  
RCINTGESCDNANSTCPIGGPSMCIAKPGQDMFDSTQIIGRAMYQRAKELYASASQEV  
GPLASAHQWVDMTDVTVWLNSTHASKTCKPALGYSFAAGTIDGVGGLNFTQGKTEGDPFW  
DTIRDQILGKPSEEIKECHKPKPILLHTGELSKPHPWHPDIVDVQIITLGLAITAIPGE  
FTTMSGRRLREAVQAEFASHGMQNMVTVISGLCNVYTHYITTYEYQAQRYEAASTIYGP  
HTLSAYIQLFRNLAKAIATDTVANLSRGPEPPFFKQLIVPLIPSIVDRAPKGRFTGDVLQ  
PAKPEYRVGEVAEIVFGANPKNSVQNQTHQTFLTVEKYEATSTSWQIVCNDASWETRFY  
WHKGLLGLSNATVEWHIPDTAQPGIYRIRYFGHNKQDILKPAVILSFEGTSPAFEVVTI  
>sp|Q495Z4|ASAS1\_HUMAN Putative uncharacterized protein ASB16-AS1 OS=Homo sapiens  
GN=ASB16-AS1 PE=5 SV=2

MSGPPSAPQGALAAPRSPAVRRKGLQAPSWGSPGRPAHSPWACGPPHWGPQRGPRNAAA  
ARPGPRSRWHKRCAAACGACARPPGHQLQPPGAGAPQPGVACSYLGRPQRTPCSAQSRP  
GWCAGPRRRHAPGTEPHVAPGRAPPPRAGASPGSRLLPGPSLPLPAATWRTWGQESKVL  
RKILKAWDPFSL

>sp|Q9Y294|ASF1A\_HUMAN Histone chaperone ASF1A OS=Homo sapiens GN=ASF1A PE=1 SV=1  
MAKVQVNNVVLDNPSPFYNPFQFEITFECIEDLSEDLWKIYYVGSAAESEEYDQVLDSV  
LVGPVPAGRHMVFQADAPNGLIPDADAVGVTVVLTCTYRGQEFIRVGYVNNYEYETET  
ELRENPPVKPDFSKLQRNILLASNPRVTRFHINWEDNTEKLEDAESSNPNLQSLLSTDALP  
SASKGWSTSENSLNVMLSHMDCM

>sp|P08243|ASNS\_HUMAN Asparagine synthetase [glutamine-hydrolyzing] OS=Homo sapiens  
GN=ASNS PE=1 SV=4  
MCGIWFGLFGSDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNCCFGFHLAVVDPLFGMQ  
PIRVKKYPYLWLCYNGEYIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTCMLDGV



FAFVLLDTANKKVFLGRDTYGVRLPKAMTEDGFLAVCSEAKGLVTLKHSATPFLKVEPF  
LPGHYEVLDLKPNGKVASVEMVKYHHCRDVLPHALYDNVEKLFPGFEIETVKNNLRILFN  
NAVKKRLMTDRRIGCLSSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR  
KVADHIGSEHYEVLNFSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVV  
IFSGECSDELQGYIYFHKAPSPEKAEESERLLRELYLFDVLRADRTAAHGLELRVPF  
LDHRFSSYYLSLPPEMRIPKNGIEKHLRETTFEDSNLIPKEILWRPKEAFSDGITSVKNS  
WFKILQEYVEHQVDDAMMANAAQKFPFNTPKTKEGYYYRQVFERHYPGRADWLSHYWMPK  
WINATDPSARTLTHYKSAVKA

>sp|Q5U4P2|ASPH1\_HUMAN Aspartate beta-hydroxylase domain-containing protein 1 OS=Homo  
sapiens GN=ASPHD1 PE=1 SV=3

MEGRGSFSVERGPRKERETAQSGMWKGNPAGSQGAAMEGTGGELGGQGNWGPEDAPGL  
LARASLIMLPWPLPLASSALTLLFGALTSLFLWYCYRLGSQDMQALGAGSRAGGVRGGPV  
GCSEAGGSPGGPGDPGEGPRTEGLVSRRLRAYARRYSWAGMGRVRAAQGGPGPGRGPG  
VLGIQRPGLLFLPDLPSAPFVPRDAQRHDELLESSFPAILRDFGAVSWDFSGTTPPPRG  
WSPPLAPGCYQLLLYQAGRCQPSNCRCPGAYRALRGLRSFMSANTFGNAGFSVLLPGAR  
LEGRCGPTNARVRCHLGLKIPPGCELVVGGEPCQWAEGHCLLVDDSLHTVAHNGSPEDG  
PRVVFIVDLWHPNVAGAERQALDFVFAPDP

>sp|Q8IZT6|ASPM\_HUMAN Abnormal spindle-like microcephaly-associated protein OS=Homo  
sapiens GN=ASPM PE=1 SV=2

MANRRVGRGCWEVSPTEPRPPAGLRGPAAEEEEASSPPVLSLSHFCSRSPFLCFGDVLLGAS  
RTLSLALDNPNEEVAEVKISHFPAADLGFSVSQRCFVLQPKKEIVISVNWTPKKEGRVRE  
IMTFLVNDVLKHQAILLGNAAEQKKKKRSLWDTIKKKKISASTSHNRRVSNIQNVNKTFS  
VSQKVDVRVSPLQACENLAMNEGPPPTENNSLILEENKIPISPISPAFNECHGATCLPLS  
VRRSTYSSLHASRELLNVHSANVSKVSFNEKAVTETSFSNVNNGQRGENSKLSLTP  
NCSSTLNTQSQIHFLSPDSFVNNSHGANNLELVTCSSDMFMKDNSQPVHLESTIAHE  
IYQKILSPDSFIKDNYNQDLESESVNPILSPNQFLKDNMAYMCTSQQTCKVPLSNENS  
QVPQSPEDWRKSEVSPRIPECQGSKSPKAI FEELVEMKSNYYSFIKQNNPKFSAVQDISS  
HSHNKQPKRRPILSATVTKRKATCTRENQTEINKPKAKRCLNSAVGEHEKVINNQKEKED  
FHSYLPIDPILSKSKSYKNEVTPSSTTASVARKRKS DGSMEDANVRVAITEHTEVREIK  
RIHFSPSEPKTSVKKTKNVTTPISKRISNREKLNKKKTDLISIFRTPISKTNKRTKPII  
AVAQSSLTFIKPLKTDIPRHPMPFAAKNMFYDERWKEKQEQGFTWWLNFILTPDDFTVKT  
NISEVNAATLLLGIENQHKISVPRAPTKEEMSLRAYTARCRLNRLRAACRLFTSEKMVK  
AIKKLEIEIEARRLIVRKDRHLWKDVGERQKVLNWL SYNPLWLRIGLETTYGELISLED  
NSDVTGLAMFILNRLWNPDIAAEYRHPTVPHLYRDGHEEALSKFTLKKLLLLVCFLDYA  
KISRLIDHDPCLFCKDAEFKASKEILLAFSRDFLSGEGDL SRHLGLLGLPVNHVQTPFDE  
FDFAVTNLAVDLQCGVRLVRTMELLTQNWDL SKKLRI PAISRLQKMHNVDIVLQVLKSRG  
IELSDEHGNTILSKDIVDRHREKTLRLWKIAFAFQVDISLNDQLKEEIAFLKHTKSIK  
KTISLLSCHSDDLINKKKGKRDSGSFEQYSENIKLLMDWVNAVCAFYNKKVENFTVSFSD  
GRVLCYLIIHHYHPCYVPFDAICQRTTQTVECTQTGSVVLNSSSESDDSSLDMSLKAFDHE  
NTSELYKELLENEKNFHLVRSVRDLGGIPAMINHSDMSNTIPDEKVVITYLSFLCARL  
LDLRKEIRAARLIQTTWRKYKLKTDLKRHQEREKAARI IQLAVINFLAKQRLRKRVNAAL  
VIQKYWRRVLAQRKLLMLKKEKLEKVQNKAAASLIQGYWRRYSTRQRFLKLKYYSIILQSR  
IRMI IAVTSYKRYLWATVTIQRHWRAYLRRKQDQQRYEMLKSSTLIIQSMFRKWKQRKMQ  
SQVKATVILQRAFREWHLRKQAKEENSAII IQSWYRMHKELRKYIYIRSCVVI IQKRFR

FQAQKLYKRRKESILTIQKYKAYLKGGKIERTNYLQKRAAAIQLQAAFRRLLKAHNLCRQI  
RAACV IQSYWRMRQDRVRLNLKKTIIKFQAHVRKHQQRQKYKKMKKAAV I IQTHFRAYI  
FAMKVLASYQKTRSAVIVLQSAYRGMQARKMYIHILTSVIKIQSYRAYVSKKEFLSLKN  
ATIKLQSTVKMKQTRKQYLHLRAAALFIQQCYRSKKIAAQKREYMQMRESCIKLQAFVR  
GYLVRKQMRQLQRKAVISLQSYFRMRKARQYYLKMYKAI I V IQNYYHAYKAQVNQRKNFLQ  
VKKAATCLQAAYRGYKVRQLIKQQSIAALKIQSAFRGYNKRKYQSVLQSI I KIQRWYRA  
YKTLHDTRTHFLKTKAAVISLQSAYRGWKVRKQIRREHQAAALKIQSAFRMAKAQKQFRLF  
KTAALVIQQNFRAWTAGRKQCMYEIELRHAVLVLSMWKGKTLRRQLQRQHKCAI I IQSY  
YRMHVQQKKWKIMKKAALLIQKYRAYSIGREQNHLYLKTKAAVVTLSAYRGMKVRKRI  
KDCNKAAVTIQSKYRAYKTKKKYATYRASAI I IQRWYRGIKITNHQHKEYLNLKKTAIKI  
QSVYRGIRVRRHIQMHRAATFIKAMFKMHQSRISYHTMRKAAI V IQVRCRAYYQGKMQR  
EKYLTILKAVKVLQASFRGVRVRRTRLRKMQTAAATLIQSNYRRYRQQTYNKLKKITKTQVQ  
QRYWAMKERNIQFQRYNKLHRSVIYIQAIFRGKKARRHLKMMHIAATLIQRRFRTLMMRR  
RFLSLKKTAILIQRKYRAHLCTKHHLQFLQVQNAVIKIQSSYRRWMIRKRMREMRAATF  
IQSTFRMHLHMRQYQALQASVVIQQQYQANRAAKLQRQHLYLRQHSVILQAAFGRMKT  
RRHLKSMHSSATLIQSRFRSLLVRRRFISLKKATIFVQRKYRATICAKHKLQFLHLRKA  
AITIQSSYRRMLVKKKLQEMQRAAVLIQATFRMYRTYITFQTWKHASILIQQHYRTYRAA  
KLQRENYIRQWHSVVIQAAYKGMKARQLLREKHKASIVIQSTYRMYRQYCFYQKLQWAT  
KIIQEKYRANKKKQKVFQHNELKKETCVQAGFQDMNIKKIQEQHQAII I QKHCKAFKI  
RKHYLHLRATVVSIIQRRYRKLTAVRTQAVICIQSYRGFKVRKDIQNMHRAATLIQSFYR  
MHRAKVDYETKKTAVI V IQNYYRLYVRVKTERKNFLAVQKSVRTIQA AFRGMKVRQKLKN  
VSEKMAAIVNQSALCCYRSKTQYEAVQSEGVMIQEWYKASGLACSQEA EYHSQSRAAVT  
IQKAFCRMVTRKLETQKCAALRIQFFLQMAVYRRRFVQQKRAAITLQHYFRTWQTRKQFL  
LYRKA AAVVLQNHYRAFLSAKHQRQVYLQIRSSV I I QARSKGFIQKRKFQEIKNSTIKIQ  
AMWRRYRAKKYLCKVKAACKIQA WYRCWRAHKEYLAILKAVKIIQGCFYTKLERTRFLNV  
RASAI I IQRKWRAILPAKIAHEHFLMIKRHRAACLIQAHYRGYKGRQVFLRQKSAALI I Q  
KYIRAREAGKHERIKYIEFKKSTVILQALVRGWLVRKRFLEQRAKIRLLHFTAAAYYHLN  
AVRIQRAYKLYLAVKNANKQVNSVICIQRWFRARLQEKRFIQKYHSIKKIEHEGQECLSQ  
RNRAASVIQKAVRHFLRKKQKEFTSGI I KIQALWRGYSWRKKNDCTKIKAIRLSLQVVN  
REIREENKLYKRTALALHYLLTYKHLSAILEALKHLEVTRLSPCCENMAQSGAISKIF  
VLIRSCNRSIPCMEVIRYAVQVLLNVSKYEKTTSAVYDVENCIDILLELLQIYREKPGNK  
VADKGSIFTKTCLLAILLKTNRASDVRSRSKVVDRIYSLYKLTAHKHKMNTERILYK  
QKNSSISIPFIPETPVTRIVSR LKPDWVLRRDNMEEITNPLQAIQMVMMDTLGIPY

>sp|Q9BXN1|ASP\_N\_HUMAN Asporin OS=Homo sapiens GN=ASP\_N PE=1 SV=2

MKEYVLLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDDDDDDDDDEDNSLFPTR  
EPRSHFFPFDLFPMCPFGCQCYSRVVHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKEN  
DFKGLTSLYGLILNNKLTKIHPKAFLT TTKLRRLYLSHNQLSEIPLNLPKSLAELRIHE  
NKVKKIQKDTFKGMNALHVLEMSANPLDNNGIEPGA FEGVTVFHIRIAEAKLTSVPKGLP  
PTLLELHLDYNKISTVELEDFKRYKELQRLGLGNNKITDIENGLANIPRVREIHLNNK  
LKKIPSGLP ELYKIIFLHSNSIARVGVNDFCPTVPKMKKSLYSAISLFNNPVKYWEMQ  
PATFRCLSRMSVQLGNFGM

>sp|Q13625|ASPP2\_HUMAN Apoptosis-stimulating of p53 protein 2 OS=Homo sapiens GN=TP53BP2  
PE=1 SV=2

MMPMFLTVYLSNNEQHFTVPVTPETICRDVVDLCKEPGESDCHLAEVWCGSERPVADNE

RMFDVLQRFQSGRNEVRFFLRHERPPGRDIVSGPRSQDPSLKRNGVKVPGEYRRKENGVN  
SPRMDLTLAELQEMASRQQQQIEAQQQLLATKEQRLKFLKQQDQRRQQQVAEQEKLKRLK  
EIAENQEAKLKKVRALKGHVEQKRLSNGKLVEEIEQMNNLFQQKQRELVLAVSKVEELTR  
QLEMLKNGRIDSHHDNQSAVAELDRLYKELQLRNKLNQEQNAKLQQQRECLNKRNSEVAV  
MDKRVNELRDRLWKKKAALQQKENLPVSSDGNLPQQAASAPSRVAAGPYIQSSTMPRMP  
SRPELLVKPALPDGSLVIQASEGPMKIQTLPNMRSQAASQTKGSKIHPVGPDWSPSNADL  
FPSQGSASVPQSTGNALDQVDDGEVPLREKEKKVRPFMSFDAVDQSNAPPSFGTLRKNQS  
SEDILRDAQVANKNVAKVPPPVTPKPKINLPYFGQTNQPPSDIKPDGSSQQLSTVVPSM  
GTKPKPAGQQPRVLLSPSIPSVGQDQTLSPGSKQESPPAAAVRFTPQPSKDTLLPPFRK  
PQTVAASSIYSMTQQQAPGKNFQQAVQSALTKTHTRGPHFSSVYGKPVIAAAQNNQQHP  
ENIYSNSQGGKPGSEPETEPVSSVQENHENERIPRPLSPTKLLPFLSNPYRNQSDADLEA  
LRKKLSNAPRPLKKRSSITEPEGPNPNQIKLLYQRTTIAAMETISVPSYPSKSASVTAS  
SESPVEIQNPYLHVEPEKEVSVLPESLSPEDVGNASTENSMDMPAPSPGLDYEPEGVPDN  
SPNLQNNPEEPNPEAPHVLDVYLEEYPPYPPPPYPSGEPEGPGEDSVSMRPPEITGQVSL  
PPGKRTNLRKTGSERIAHGMRVKFNPLALLDSSLEGEFDLVQRIIYEVDPSLPNDEGI  
TALHNAVCAGHTEIVKFLVQFGVNVNAADSDGWTPHCAASCNNVQVCKFLVESGAAVFA  
MTYSMDMQTAADKCEEMEEGYTQCSQFLYGVQEKMGIMNKGVIIYALWDYEPQNDDELPME  
GDCMTIIHREDEDEIEWWWARLNDKEGYVPRNLLGLYPRIKPRQRS

>sp|P00966|ASSY\_HUMAN Argininosuccinate synthase OS=Homo sapiens GN=ASS1 PE=1 SV=2

MSSKGSVVLAYSGLDTSILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVF  
IEDVSREFVEEFIWPAIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATG  
KGNDQVRFELSCYSLAPQIKVIAPWRMPEFYNRFKGRNDLMEYAKQHGIPVTPKNPWS  
MDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTPDILEIEFKKGVPVKVTNVKD  
GTTHQTSLELFMYLNEVAGKHGVRIDIVENRFIGMKSRIYETPAGTILYHAHLDEAF  
TMDREVRIKQGLGLKFAELVYTGFWHSPECEFVRHCAKSQERVEGKVQVSVLKGQVYI  
LGRESPLSLYNEELVSMNVQGDYEPTDATGFININSLRLKEYHRLQSKVTAK

>sp|O60312|AT10A\_HUMAN Probable phospholipid-transporting ATPase VA OS=Homo sapiens  
GN=ATP10A PE=2 SV=2

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DNRLKTTKYTLLSFLPKNLFQFHRPANVYFVFIALLNFPVAVNAFQPLALAPVLFILA  
ITAFRDLWEDYSRHRSDHKINHLGCLVFSREEKKYVNRWFKEIHVGDFVRLRCNEIFPAD  
ILLSSSDPDGLCHIETANLDGETNLKRRQVVRGFSELVSEFNPLTFTSVIECEKPNNDL  
SRFRGCIHDNGKKAGLYKENLLRGCTLRNTDAVVGIVYAGHETKALLNNSGPRYKRS  
KLERQMNCVDLWCVLLVCMSLFSAVGHGLWIWRYQEKSLFYVPKSDGSSSLSPVTAAYV  
SFLTMIIVLQVLIPISLYVSIEIVKACQVYFINQDMQLYDEETDSQLQCRALNITEDLGQ  
IQYIFSDKTGTLTENKMFRRCTVSGVEYSHDANAQRLARYQEADSEEEVVPRGGSVSQ  
RGSIGSHQSVRVVHRTQSTKSHRRTGSRAEAKRASMLSKHTAFSSPMEKDITPDPKLLEK  
VSECDKSLAVARHQEHLAHLSPESLSDVFDFFIALTICNTVVVTSPDQPRTKVRVRFELK  
SPVKTIEDFLRRFTPSCLTSGCSSIGSLAANKSSHKLGSFPSTPSSDGMLLRLEERLGQ  
PTSAIASNGYSSQADNWASELAQEQESERELRYEAESPDEAALVYAARAYNCVLVERLHD  
QVSVELPHLGRITFELLHTLGFDSVRKRMSVVIRHPLTDEINVYTKGADSVVMDLLQPCS  
SVDARGRHQKKIRSKTQNYLNVYAAEGLRTLCTAKRVLKEEYACWLQSHLEAESSLENS  
EELLFQSAIRLETNLHLLGATGIEDRLQDGVPETISKLRQAGLQIWWLTGDKQETAVNIA  
YACKLLDHDEEVITLNATSQEACAALLDQCLCYVQSRGLQRAPEKTKGKVMRFSSSLCPP

STSTASGRPSLVIDGRSLAYALEKNLEDKFLFLAKQCRSVLCCRSTPLQKSMVVKLVRS  
KLKAMTLAIGDGANDVSMIQVADVGVGISGQEGMQAVMASDFAVPKFRYLERLLILHGHW  
CYSRLANMVLVFFYKNTMFVGLLFWFQFFCGFSASTMIDQWYLIFNLLFSSLPLVTGV  
LDRDVPANVLLTNPQLYKSGQNMEEYRPTFWFNMADAAQSLVCFSIPYLAYYDSNVDL  
FTWGTPIVTIALLTFLHLGIETKTWTWLNWITCGFSVLLFFTVALIYNASCATCYPPSN  
PYWTMQALLGDPVFYLTCLMTPVAALLPRLFFRSLQGRVFPTQLQLARQLTRKSPRRCSA  
PKETFAQGRLPKDSGTEHSSGRVKTSTVPLSQPSWHTQQPVCSEASGEPSTVDMSMPVR  
EHTLLEGLSAPAMSSAPGEAVLRSPGGCPEESKVRAASTGRVTPSSLSLPTFSLLNW  
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>sp|Q9P241|AT10D\_HUMAN Probable phospholipid-transporting ATPase VD OS=Homo sapiens  
GN=ATP10D PE=2 SV=3

MTEALQWARYHWRRLIRGATRDDDGPYNYSSLLACGRKSSQTPKLSGRHRIVVPHIQPF  
KDEYEKFSGAYVNNRIRTTKYTLLNFVPRNLFEQFHRAANLYFLVLVNWVPLVEAFQK  
EITMLPLVVVLTIIAIDKGLEDYRKYKIDKQINNLI TKVYSRKEKKYIDRCWKDVTVGDF  
IRLSCNEVIPADMVLLFSTDPDGICHIE TSGLDGESNLKQRQVVRGYAEQDSEVDPEKFS  
SRIECESPNNDLSRFRGFLEHSNKERVGLSKENLLRGCTIRNTEAVVGIVVYAGHETKA  
MLNNSGPRYKRSKLERRANTDVLWCVMLLVIMCLTGAVGHGIWLSRYEKMHHFNVPEPDG  
HII SPLLAGFYMFWTMIILLQVLIPISLYVSI EIVKLGQIYFIQSDVDFYNEKMDSIVQC  
RALNIAEDLGQIQYLFSDKTGTLTENKMVFRRC SVAGFDYCHEENARRLESYQEAVSEDE  
DFIDTVSGSLSNMAKPRAPSCRTVHNGPLGNKPSNHLAGSSFTLGS GEGASEVPHSRQAA  
FSSPIETDVVPDTRLLDKFSQITPRLFMPLDETIQNP METLYIIDFFIALAICNTVVVS  
APNQPRQKIRHPSLGGPLIKSLEEIKSLFQRWSVRSSSPSLNSGKEPSSGVPNAFVSRL  
PLFSRMKPASPVEEEVSQVCESPCSSSSACCTETEKQHGDAGLLNGKAESLPGQPLACN  
LCYEAESPDEAALVYAARAYQCTLRSTPEQVMVDFAALGPLTFQLLHILPFDVSRKRMS  
VVVRHPLSNQVVVYTKGADSVIMELLSVASPDGASLEKQQMIVREKTQKHLDDYAKQGLR  
TLCIAKKVMSDTEYAEWLRNHFLAETSIDNREELLLESAMRENKL TLLGATGIEDRLQE  
GVPESIEALHKAGIKIWMLTGDKQETAVNIA YACKLLEPDDKLFILNTQSKDACGMLMST  
ILKELQKKTQALPEQVSLSEDLQPPVPRDSGLRAGLIITGKTLEFALQESLQKQFLELT  
SWCQAVVCCRATPLQKSEVVKLVRSHLQVMTLAIGDGANDVSMIQVADIGIGVSGQEGMQ  
AVMASDFAVSQFKHLSKLLL VHGHWCYTRLSNMILYFFYKNVAYVNLLFWYQFFCGFSGT  
SMTDYWVLIFNLLFTSAPPVIYGVLEKDVSAETLMQLPELYRSGQKSEAYLPHTFWITL  
LDAFYQSLVCFVPYFTYQGSDDTIFA FGNPLNTAALFIVLLHLVIESKSLTWIHLV I  
GSILSYFLFAIVFGAMCVTCNPPSNPYWIMQE HMLDPVFYLCILTTSIALLPRFVYRVL  
QGSLFPSPILRAKHFDRLTPEERTKALKKWRGAGKMNQVTSKYANQSAGKSGRRPMPGPS  
AVFAMKSASSCAIEQGNLSLCETALDQGYSETKAFEMAGPSKGKES

>sp|P14415|AT1B2\_HUMAN Sodium/potassium-transporting ATPase subunit beta-2 OS=Homo  
sapiens GN=ATP1B2 PE=1 SV=3

MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRGTGTSWAFILLFYLVFYGFLTAMFTLTMW  
VMLQTVSDHTPKYQDRLATPGLMIRPKTENLDVIVNVSDTESWDQHVQKLNKFLEPYNDS  
IQAQKNDVCRPGRYYEQPDNGVLNYPKRACQFNRTQLGNCSGIGDSTHYGYSTGQPCVFI  
KMNRVINFYAGANQSMNVT CAGKRDEDAENLGNFVMFPANGNIDLMYFPYYGKKFHVNYT  
QPLVAVKFLNVTNPVEVNVECRINAANIATDDERDKFAGRVAFKLRINKT

>sp|P54709|AT1B3\_HUMAN Sodium/potassium-transporting ATPase subunit beta-3 OS=Homo  
sapiens GN=ATP1B3 PE=1 SV=1

MTKNEKKSLSNQSLAEWKLFYINPTTGEFLGRITAKSWGLILLFYLVFYGFLAALFSFTMWV  
MLQTLNDEVPKYRDQIPSPGLMVFPKPVTALEYTFSRSDPTSYAGYIEDLKKFLKPYTLE  
EQKNLTVCPDGFQKGPVYVACQFPISLLQACSGMNDPDFGYSQGNPCILVKMNRIIG  
LKPEGVPRIDCVSKNEDIPNAVYPHNGMIDLKYFPYYGKKLHVGYLQPLVAVQVSFAPN  
NTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA

>sp|Q9NXL2|ARH38\_HUMAN Rho guanine nucleotide exchange factor 38 OS=Homo sapiens  
GN=ARHGEF38 PE=2 SV=2

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NQKLQEKMPQGECSVAETLTPEEEHHMKRMMAKREKIKELIQTEKDYLNDELCVREV  
VQPLRNKKTDRDLVDLSFSNIESVHQISAKLLSLEEATTDVEPAMQVIGEVFLQIKGPL  
EDIYKIYCYHHDEAHSILESYEKEEELKEHLSHCIQSLKKIYMQEGKPNLLDMGSLMIKP  
IQRVMKYPLLLCELNRSTPPSHPDYRALDDAFAAVKDINVNINELKRRKDLVLKYKNDE  
DESLDKLSKLNHISISKSKSRVTNHLKILTRGESQVKDNTFNREEKLFRALEKTVRLCV  
KNISLCLQHIQDAMPLALQSVMDLQEISYNKDDMDYSETLSNALNSCHDFASHLQRLIL  
TPLSALLSLFPGPHKLIQKRYDKLLDCNSYLQRSTGEESDLAKKEYEALNAQLVEELQAF  
NQAARKILLNCLCSFITLLRDLMLVAQQAYSTLVPMPLLVSSISEIQNQVLEEIQNLNCV  
KENSATFIERKLSFEKKKPVQILPEMPHQTDIHRSKLLSTYSAEELYQAKRKCNAEQEYD  
INLEGDLVAVIEQKDLPGSTSRWLVDGTGNVKGYYSSFLKPYNPAKMQKQVDAENRFCD  
DFENISLTVSSRPASDSVTGTSESSIGDSSSSLSGTGKFETNGTDVDSFQEVDEQIFYA  
VHAFQARSDHELSQLQYQVRVHILRFCDLSGNKEWWLAEAQGQKGYVPANYLGKMTYA

>sp|Q8TER5|ARH40\_HUMAN Rho guanine nucleotide exchange factor 40 OS=Homo sapiens  
GN=ARHGEF40 PE=1 SV=3

MEPEPVEDCVQSTLAALYPPFEATAPTLLGQVFQVVERTYREDALRYTLDLVPKHLA  
KVQQEACAQYSGFLFFHEGWPLCLHEQVVVQLAALPWQLLRPGDFYLQVVPAAQAPRLA  
LKCLAPGGGRVQEVVPNEACAYLFTPEWLQGINRPTGRLSTCLLSAPSGIQRLPWA  
LICPRFVHKEGLMVGHQPOSTLPPELPSGPPGLSPPLPEEALGTRSPGDGHNAPEGPEG  
EYVELLEVTLVVRGSPTDAEGSPGLSRVRTVPTRKGAGGKGRHRRHRAWMHQKGLGPRGQ  
DGARPPGEGSSTGASPEPPGAEAVPEAAVLEVSEPPAEAVGEASGSCPLRPGELRGGGG  
GGQGAEGPPGTPRRTGKGNRRKKRAAGRGALSRRGDSAPLSPGDKEDASHQEALGNLPSP  
SEHKLPECHLVKEEYEGSGKPESEPKELKTAGEKEPQLSEACGPTEEGAGERELEGPLL  
CMAGHTGPEGPLSDTPTPLETVQEGKDNIPPEALAVSVSDHPDVAWDLMASGFLILTG  
GVDQSGRALLTITPPCPPEPPPSRDLNTHLHLSLLRPDLQTLGLSVLLDLRQAPPL  
PPALIPALSQLQDSGDPPLVQRLILIHDDLPTELCGFQGAEVLENDLKRVAKPEELQW  
ELGGHRDPSPSHWVEIHQEVVRLCRLCQGVLSVRQAIEELEGAAPPEEEEEAVGMPKPLQ  
KVLADPRLTALQRDGAAILMRLRSTPSSKLEGQGPATLYQEVDEAIHQLVRLSNLHVQQQ  
EQRQCLRRLLQQVLQWLSGPGEELASFAMPGDLSALQETELRFRAFSAEVQERLAQARE  
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AVLAALALRRAPEPSAGTFQEMRALALDLGSPAALREWGRCQARCQELERRIQHVGEAA  
SPRGYRRRRADGASSGAQWGPRSPSPSLSSLLPSSPGPRPAPSHCSLAPCGEDYEEEG  
PELAPEAEGRPPRAVLIRGLEVTSTEVVDRTCSPREHVLLGRARGPDGPWVGTPRMERK  
RSISAQQRLVSELIACEQDYVATLSEPVPPPGPELTPELRGTWAAALSARERLRSFHRTH  
FLRELQGCATHPLRIGACFLRHGDQFSLYAQYVKHRHKLLENGLAALSPLSKGSMEAGPYL  
PRALQQPLEQLTRYGRLLLEELLREAGPELSSECRALGAAVQLLREQEARGRDLLAVEAVR  
GCEIDLKEQGQLHRDPFTVICGRKKCLRHVFLFEHLLLSKLGPEGGSEMFFVYKQAFK

TADMGLTENIGDSGLCFELWFRRRRAREAYTLQATSPEIKLKWTSIIAQLLWRQAAHNKE  
LRVQQMVMGIGNKPFLLDIKALGERTLSALLTGRAARTRASVAVSSFEHAGPSLPGLSPG  
ACSLPARVEEEEAWDLVDVKQISLAPETLDSSGDVSPGPRNSPSLQPPHPSSTPTLASRGI  
LGLSRQSHARALSDPTTPL

>sp|Q14155|ARHG7\_HUMAN Rho guanine nucleotide exchange factor 7 OS=Homo sapiens GN=ARHGEF7  
PE=1 SV=2

MNSAEQTVTWLITLGVLESPKKTISDPEGFLQASLKDGVVLCRLLERLLPGTIEKVYPEP  
RSESECLSNIREFLRGCASLRLELLFPPSQPPQHLVTTILLSASTFDANDLYQGQNFNK  
VLSSLVTLNKVTADIGLSDSVCARPSSSHRIKSFDSLGSQSLHTRTSKLFQGGYRSLDMT  
DNSNNQLVVRAKFNQQTNEDELSFSKGDV IHVTRVEEGGWEGTLNGRTGWFPSNYVRE  
VKASEKPVSPKSGTLKSPKGFDTAINKSYYNVVLQNILETENEYSKELQTVLSTYLRP  
LQTSEKLSSANISYLMGNLEEICSFQQMLVQSLEECTKLPEAQQRVGGCFLNLMQMKT  
YLTICANHPSAVNVLTEHSEELGEFMETKGASSPGILVLTGLSKPFMRDKYPTLLKEL  
ERHMEDYHTDRQDIQKSMAAFKNLSAQCEVVRKKELELQILTEAIRNWEQDDIKTLGNV  
TYMSQVLIQCAGSEEKNERYLLFPNVLLMLSASPRMSGFIYQGLPTTGMTITKLEDSE  
NHRNAFEISGSMIERILVSCNNQQDLQEWVEHLKQTKVTSVGNPTIKPHSVPSHTLPSH  
PVTSSKHADSKPAPLTPAYHTLPHPSHHGTPHTTINWGPLEPPKTPKPWSLSCLRPAPP  
LRPSAALCYKEDLSKSPKTMKLLPKRKPERKPSDEEFASRKSTAALQILKVEAY  
CTSAKTRQTLNSTWQGTDLMHNHVLADDDQPSLDSLGRSSLSRLEPSDLSSESDYDSIW  
TAHSYRMGSTSRKSCCSYISHQN

>sp|Q7Z628|ARHG8\_HUMAN Neuroepithelial cell-transforming gene 1 protein OS=Homo sapiens  
GN=NET1 PE=1 SV=1

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WDFTLKRKRREKDDDVVSLSSDLKEPSNKRVRPLARVTSANLISPVRNGAVRRFGQTI  
QSFTLRGDHRSPASAKQFSSRSTVPTAKRRSSALWSEMLDITMKESLTREIRRQEAIY  
EMSRGEQDLIEDLKLARKAYHDPMLKLSIMSEEELTHIFGDLDSYIPLHEDLLTRIGEAT  
KPDGTVEQIGHILVSWLPRLNAYRGYCSNQLAAKALLDQKKQDPRVQDFLQRCLESPFSR  
KLDLWSFLDIPRSRLVKYPLLLKEILKHTPKHPDVQLLEDAILIIQGVLSINLKKGES  
ECQYYIDKLEYLDEKQDRPRIEASKVLLCHGELRSKSGHKLYIFLFQDILVLRPVTRNE  
RHSYQVYRQPIPVQELVLEDLQDGDVRMGGSFRAFSNSEKAKNIFRIRFHDPSPAQSHT  
LQANDVFHKQWFNCIRAAIAPFQSAGSPPELQGLPELHEECEGNHPSARKLTAQRRAST  
VSSVTQVEVDENAYRCGSGMQMAEDSKSLKTHQTQPGIRRARDKALSGGKRKETLV

>sp|Q86VW2|ARHGP\_HUMAN Rho guanine nucleotide exchange factor 25 OS=Homo sapiens  
GN=ARHGEF25 PE=1 SV=2

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GLSSGPCSPGPPGPVSGLRRLDHSKHCLSVETeadSGQAGPYENWMLPALATGEELPE  
LTLLTTLLEPGDKTQPPEEETLSQAPESEEEQKKKALERSMYVLSELVETEKMYVDDL  
QIVEGYMATMAAQGVPESLRGRDRIVFGNIQQIYEWHRDYFLQELQRCLKDPDWLAQLFI  
KHERRLHMYVVYCQNKPKSEHVVSFEFGDSYFEELRQQLGHRLQLNDLLIKPVQRIMKYQL  
LLKDFLKYYNRMGMDTADLEQAVEVMCFVPKRCNDMMTLGRLRGFEGKLTAGKLLGQDT  
FWVTEPEAGLLSSRGRERRVFLFEQIIIFSEALGGGVRGGTQPGYVYKNSIKVSCLGLE  
GNLQGDPCRFAITSRGPEGGIQRYVLQAADPAISQAWIKHVAQILESQRDFLNALQSPIE  
YQRRESQTNSLGRPRGPGVSPGRIQLGDQAQGSTHTPINGSLPSLLSPKGEVARALLP  
LDKQALGDIPQAPHDSPPVSPTPKTPPCARLAKLDEDEL

>sp|Q8IVW6|ARI3B\_HUMAN AT-rich interactive domain-containing protein 3B OS=Homo sapiens  
GN=ARID3B PE=1 SV=2

MEPLQQQQQQQQQKQPHLAPLQMDAREKQGQQMREAQFLYAQKLVTPQTLLSATAGRP  
SGSTPLGPLARVPPTAAVAQVFERGNMNSEPEEEDGGLEDEDGDDEVAEVAEKETAASK  
YFHVQKVARQDPRVAPMSNLLPAPGLPPHGQQAQEDHTKDASKASPSVSTAGQPNWNLDE  
QLKQNGGLAWSDDADGGRGREISRDFAKLYELDGDPERKEFLDDLFFVMQKRGTPINRIP  
IMAKQILDLYMLYKLVTEKGGLVEIINKKIWREITKGLNLPTSITSAAFTLRTQYMKYLY  
AYECEKKALSSPAELQAAIDGNRREGRRPSYSSSLFGYSPAAATAAAAAAGAPALLSPPKI  
RFPILGLGSSSGTNTSSPRISPATTLRKGDGAPVTTVPVPNRLAVPVTLASQQAGTRTAA  
LEQLRERLESGEPAEKKASRLSEEEQRLVQQAQFQRNFFSMARQLPMKIRINGRAEDRAEA  
SAAALNLTSSIGSINMSVDIDGTTYAGVLFQAQKPVVHLITGSAPQSLGSSASSSSSSSHC  
SPSPTSSRGTPSAEPSTSWSL

>sp|A6NKF2|ARI3C\_HUMAN AT-rich interactive domain-containing protein 3C OS=Homo sapiens  
GN=ARID3C PE=3 SV=1

MEALQKQQAARLAQGVGPLAPACPLLPQPPLPDHRTLQAPEGALGNVGAEEEEEDAEDE  
EKREEAGAEAAAAEESRGAQGPSSPSSQPPGLHPHEWYEEQFKQLYELDADPKRKEFL  
DDLFSFMQKRGTPVNRVPIMAKQVLDLYALFRLVTAKGGLVEVINRKVWREVTGRLSLPT  
TITSAAFTLRTQYMKYLYPYECETRALSSPGELQAAIDSNRREGRRQAYTATPLFGLAGP  
PPRGAQDPALGPGPAPPATQSSPGPAQGSGSLPAHACAQLSPSPIKKEESGIPNCLAL  
PVGLALGPTREKLAPEEPPEKRAVLGMGMDPPRPMPPSFLPRGKVPLREERLDGPLNLA  
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>sp|Q68CP9|ARID2\_HUMAN AT-rich interactive domain-containing protein 2 OS=Homo sapiens  
GN=ARID2 PE=1 SV=2

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AKVSEKNQWGEIVVEFNFRSCSNAAFALKQYYLRYLEKEYKVHHFGEDDDEVPPGNPKP  
QLPIGAIPSSYNYQQHSVSDYLRSYGLSMDFNPNNDYNKLVLSLLSGLPNEVDFAINVC  
TLLSNESKHVMQLEKDPKIITLLANAGVFDDTLGSFSTVFGEWKEKTD RDFVKFWKDI  
VDDNEVRDLISDRNKSHEGTSGEWIWESLFHPPRKLGINDEGQRLQIAVILRNLSFEE  
GNVKLLAANRTCLRFLLSAHSHFISLRQLGLDTLGNIAAELLLDPVDFKTTHLMFHTVT  
KCLMSRDRFLKMRGMEILGNLCKAEDNGVLICEYVDQDSYREIICHLTLPDVLLVISTLE  
VLYMLTEMGDVACTIAKVEKSIDMLVCLVSMDIQMFGPDALAAVKLIEHPSSSHQMLSE  
IRPQAEIQVQTQTHVASAPASRAVVAQHVAPPPGIVEIDSEKFACQWLNAHFEVNPDCSV  
SRAEMYSEYLSTCSKLARGGILTSTGFYKCLRTVFPNHTVKRVEDSSSNGQAHIHVVGVK  
RRAIPLPIQMYQQQPVSTSVVRVDSVPDVSPAPSPAGIPHGSQTIGNHFQRTPVANQSS  
NLTATQMSFPVQGVHTVAQTVSRIPQNPSPHTHQQQNAPVTVIQSKAPIPCEVVKATVIQ  
NSIPQTGVPVSIAGGGPPQSSVVQNHSTGPPQPVTVVNSQTLLHHPSVIPQQSPLHTVVP  
GQIPSGTPVTVIQAVPQSHMFGRVQNIPTACTSTVSQGGQLITTSPQPVQTSSQTSAGS  
QSQDTVIIAPPQYVTTASNIVSATSVQNFQVATGQMTIAGVPSPQASRVGFQNIAPKP  
LPSQQVSVTVVQQPIQQPQQPTQQSVVIVSQPAQQGQTYAPAIHQIVLANPAALPAGQTV  
QLTGQPNITPSSSPVPATNNQVPTAMSSSSTPQSQGGPPPTVSQMLSVKRQQQQQHSPA  
PPPQQVQVQVQQPQQVQMVPQQSNAGVGQPASGESSLIKQLLLPKRGPSTPGGKLILP  
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QTVPIISNLQILPGPLISNSPATIFQGTSGNQVTITVVPNTSFAPATVSQGNATQLIAPAG  
ITMSGTQTGVGLPVQTLPATQASPAGQSSCTTATPPFKGDKIICQKEEEAKEATGLHVHE

RKIEVMENPSCRRGATNTSNGDTKENEMHVGSLNNGRKYSDDLPPSNGKIQSETNQCS  
LISNGPSLELGENGASGKQNSEQIDMQDIKSDLRKPLVNGICDFDKGDGSHLSKNIPNHK  
TSNHVNGGEISPMEPQGTLDITQQDTAKGDQLERISNGPVLTLGGSSVSSIQEASNAATQ  
QFSGTDLLNGPLASSLNSDVPQQRPSVVVSPHSTTSVIQGHQIIAVPDSGSKVSHSPALS  
SDVRSTNGTAECKTVKRP AEDTDRET VAGIPNKVGVRIVTISDPNNAGCSATMVAVPAGA  
DPSTVAKVAIESAVQQKQHPPTVYQNVVPQNTMPPPSPAVQVQGPNSSQPSFSGSSQ  
PGDPMRKPGQNFMC LWQSKKWFQTPSQVFYHAATEHGGKDVYPGQCLWEGCEPFQRQRF  
SFITHLQDKHCKSDALLAGLKQDEPGQAGSQKSSTKQPTVGGTSSTPRAQKAIVNHPSAA  
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>sp|Q969Q4|ARL11\_HUMAN ADP-ribosylation factor-like protein 11 OS=Homo sapiens GN=ARL11  
PE=1 SV=1

MGSVNSRGHKAEAQVMMGLDSAGKTTLLYKLKGHQLVETLPTVGFNVEPLKAPGHVSLT  
LWDVGGQAPLRASWKDYLEGTDILVYVLDSTDEARLPESAELTEVLNDPNMAGVPFLVL  
ANKQEAPDALPLLKIRNRLSLERFQDHCWELRGCSALTGEGLPEALQSLWSLLKSRSCMC  
LQARAHGAERGD SKRS

>sp|Q8IVW1|ARL17\_HUMAN ADP-ribosylation factor-like protein 17 OS=Homo sapiens GN=ARL17A  
PE=2 SV=2

MGNIFEKLFKSLLGKKMRILILSLDTAGKTTILYKLKLGETVPAVPTVGFVETVEYKN  
NTFAVDVVGSHFKIRPLWQHFFQNTKGARSPGSTHQGSLASGVLP IKCSHVEFGMWKGGR  
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>sp|P56559|ARL4C\_HUMAN ADP-ribosylation factor-like protein 4C OS=Homo sapiens GN=ARL4C  
PE=1 SV=1

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GISCHFWDVGGQEKLRLPWKSYSRCTDGIIVVDSVDVDRLEEAKTELHKVTKFAENQGT  
PLLVIANKQDLPKSLPVAEIEKQLALHELIPATYHVQPACAIIGEGLTEGMDKLYEMIL  
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>sp|P49703|ARL4D\_HUMAN ADP-ribosylation factor-like protein 4D OS=Homo sapiens GN=ARL4D  
PE=1 SV=2

MGNHLEMAPTASSFLPHFQALHVVVIGLDSAGKTSLLYRLKFKEFVQSVPTKGFNTEKI  
RVPLGGSRGITFQVWDVGGQEKLRLWRSYTRRTDGLVFVDDAAEAERLEEAKVELHRIS  
RASDNQGVPLVLANKQDQPGALSAAEVEKRLAVRELAAATLTHVQGCSAVDGLGLQQGL  
ERLYEMILKRKKAARGGKKRR

>sp|Q96KC2|ARL5B\_HUMAN ADP-ribosylation factor-like protein 5B OS=Homo sapiens GN=ARL5B  
PE=1 SV=1

MGLIFAKLWSLFCNQEHKVIIVGLDNAGKTTILYQFLMNEVVHTSPTIGSNVEEIVKNT  
HFLMWDIGGQESLRSSWNTYYSNTEFIILVDSIDRERLAIKEELYRMLAHEDLRKAAV  
LIFANKQDMKGCMTAAEISKYLTSSIKDHPWHIQSCCALTEGLCQGLEWMTSRIGVR

>sp|Q8NENO|ARMC2\_HUMAN Armadillo repeat-containing protein 2 OS=Homo sapiens GN=ARMC2  
PE=2 SV=4

MLSPNDKMLGKLDPFYQPSVSKQKTS AEI ISEARNALRTVRTQRPF TPQEAQRKLF GPAS  
SRTSENRPSSFS LHASSFESSDRPISGTRLSPLELKPVPASPTREEDSCFSFPKPPV  
DPAKIRRVSNARARLFRAASQRALLPDRSLPPSDSKKTVESKETVMMGDSMVKINGIYLT  
KSNAICHLKSHPLQLTDDGGFSEIKEQEMFKGTTSLPSHLKNGDQGKRHARASSCPSSS



DL SRLQTKAVPKADLQEEDAEIEVDEVFWNTRIVPILRELEKEENIETVCAACTQLHHAL  
EEGNMLGNKFKGRSILLKTLCKLVDVGSDSLKLAKIILALKVSRKNLLNVCKLIFKIS  
RNEKND SLIQNDSILESLEVLRS EDLQTNMEAFLYCMGSIKFISGNLGFLENMISKGAV  
EILINLIKQINENIKKCGTFLPNSGHL LVQTATLRNLVDSSLVRSKFLNISALPQLCTA  
MEQYKGD KDVCTNIARIFSKLTSYRDCCTALASYSRCYALFLNLINKYQKKQDLVVRVVF  
ILGNLTAKNNQAREQFSKEKGS IQTLLSLFQTFHQDLHSQKPVGQRGEQHRAQRPPSEA  
EDVLIKLTRVLANIAIHPGVGPVLAANPGIVGLLLTTLEYKSLDDCEELVINATATINNL  
SYYQVKNSIIQDKKLYIAELLLKLLVSNMMDGILEAVRVFGNLSQDHDVCD FIVQNNVHR  
FMMALLDAQHQDICFSACGVLLNLTVDKDKRVILKEGGGIKKLVDCLRD LGPTDWQLACL  
VCKTLWNFSENITNASSCFGNEDTNTLLLLSSFLDEELALDGSFDPDLKNYHKLHWETE  
FKPVAQQLLNRIQRHHTFLEPLIPSF

>sp|P27540|ARNT\_HUMAN Aryl hydrocarbon receptor nuclear translocator OS=Homo sapiens  
GN=ARNT PE=1 SV=1

MAATTANPEMTSDVPSLGP AIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFL  
RCDDDDQMSNDKERFARSDD EQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCS  
ALARKPDKLTILMAVSHMKS LRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFIVS  
CETGRVVYVSDSVTPVLNQ PQSEWFGSTLYDQVHPDDVDKLRQLSTSENALTGRILDLK  
TGTVKKEGQQSSMRMCMGSRRSFICRMRCGSSSDPVSVNRLSFVRNRCRNLG SVKDGE  
PHFVVVHCTGYIKAWPPAGVSLPDDDEAGQGSKFCLVAIGRLQVTSSPNC TMSNVCQP  
TEFISRHNIEGIFTVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKG  
QVLSVMFRFRSKNQEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRPTLSNTIQ  
RPQLGPTANLPLEMGSGQLAPRQQQQTELDMPGRDGLASYNHSQVVQPVTTTGPEHSK  
PLEKSDGLFAQDRDPRFSEIYHNINADQSKGISSSTVPATQQLFSGNTFPPTPRPAENF  
RNSGLAPPVTIVQPSASAGQMLAQISRHSNPTQGATPTWPTTRSGFSAQQVATQATAKT  
RTSQFGVGSFQTPSSFSSMSLPGAPTASPGAAAYPSLTNRGSNFAPETGQTAGQFQTRTA  
EGVGVPWQWQQPHHRSSSEQHVVQQPPAQPGQPEVFQEML SMLGDQSNSYNNEEFPD  
LTMFPFSE

>sp|Q8TBH0|ARRD2\_HUMAN Arrestin domain-containing protein 2 OS=Homo sapiens GN=ARRDC2  
PE=2 SV=2

MLFDKVKAFSVQLDGATAGVEPVFSGGQAVAGRVLLELSSAARVGALRLRARGRAHVHWT  
ESRSAGSSTAYTQSYSERVEVVS HRATLLAPDTGETTTLPPGRHEFLFSFQLPPTLVTSF  
EGKHGSVRYCIKATLHRPWVPARRARKVFTVIEPVDINTPALLAPQAGAREKVARSWYCN  
RGLVLSAKIDRKG YTPGEVIPVFAEIDNGSTRPVLPRAAVVQTQTFMARGARKQKRAVV  
ASLAGEPVGPGQRALWQGRALRIPPVGPSILHCRVLHV DYALKVCVDIPGTSKLLLELPL  
VIGTIPLHPFGSRSSSVGSHASFLLDWRLGALPERPEAPPEYSEVVADTEEAALGQSPFP  
LPQDPDMSLEGPF FAYIQEFYRPPPLYSEEDPNPLLGD MRPRCMT C

>sp|Q5FYB0|ARSJ\_HUMAN Arylsulfatase J OS=Homo sapiens GN=ARSJ PE=2 SV=1

MAPRG CAGHPPPPSPQACVCPGKMLAMGALAGFWILCLLT YGYLSWGQALEEEEEGALLA  
QAGEKLEPSTTSTSQPHLIFILADDQGFRDVGYHGSEIKTPTLDKLA AEGVKLENYYVQP  
ICTPSRSQFITGKYQIHTGLQHSIIRPTQPNCLPLDNATLPQKLKEVGYSTH MVGKWHLG  
FYRKECMPTRRGFD TFFGSLLGSGDY YTHYKCDSPGMCGYDLYENDNAAWDYDNGIYSTQ  
MYTQRVQQILASHNPTKPIFLYIAYQAVHSPLQAPGRYFEHYRSIININRRRYAAML SCL  
DEAINNVTLALKTYGFYNN SIIYSSDNGGQPTAGGSNWPLRGSKGTYWEGGIRAVGFVH  
SPLLKNKGTVC KELVHITDWYPTLISLAEGQIDEDIQLDGYDIWETISEGLRSPRV DILH

NIDPIYTKAKNGSWAAGYGIWNTAIQSAIRVQHWKLLTGNPGYSDWVPPQSFSNLGPNRW  
HNERITLSTGKSVWLFNITADPYERVDLNRYPGIVKKLLRRLSQFNKTAVPVRYPPKDP  
RSNPRLNGGVWGPWYKEETKKKKPSKNQAEKKQKSKKKKKKQKAVSGSTCHSGVTCG

>sp|Q96QS3|ARX\_HUMAN Homeobox protein ARX OS=Homo sapiens GN=ARX PE=1 SV=1

MSNQYQEEGCSEKSPKSTLLSSYCIDSLGRRSPCKMRLGAAQSLPAPLTSRADP  
EKAVQGSPPKSSAPFEALHLPKLRRLYGPGGGRLLQGAAAAAAAAAAAAAAAAATATAG  
PRGEAPPPPPPTARPERPDGAGAAAAAAAAAAWDTLKISQAPQVSISSKSYRENGA  
PFVPPPPALDELGGPGVTHPEERLGVAGGPGSAPAAGGGTGTEDEEELLEDEDEDEE  
EELLEDEEELLEDDARALLKEPRRCVAAATGAVAAAAAAVATEGGELSPKEELLHPE  
DAEGKDGEDSVCLSAGSDSEGLLKRKQRRYRTTFTSYQLEELERAFQKTHYPDVFTREE  
LAMRLDLTEARVQVWFQNRRAKWRKREKAGAQTHTPPGLPFPGLSATHPLSPYLDASFPF  
PHHPALDSAWTAAAAAAAAAFPSLPPPPGSASLPPSGAPLGLSTFLGAAVFRHPAFISPA  
FGRLFSTMAPLTSASTAAALLRQPTPAVEGAVASGALADPATAAADRRASSIAALRLKAK  
EHAAQLTQLNILPGTSTGKEVC

>sp|Q9HBK9|AS3MT\_HUMAN Arsenite methyltransferase OS=Homo sapiens GN=AS3MT PE=1 SV=3

MAALRDAEIQKDVQTYYGQVLKRSADLQTNQCVTTARPVPKHIREALQNVHEEVALRYYG  
CGLVIPLEHLENCWILDLSGSGRDCYVLSQLVGEKGHVTGIDMTKGQVEAEKYLDYHME  
KYGFQASNVTFIHGYLEKLGEAGIKNESHDIVVSNCVINLVPDKQQVLQEAYRVLKHGGE  
LYFSDVYTSLELPEEIRTHKVLWGECLGGALYWKELAVLAQKIGFCPPRLVTANLITIQN  
KELERVIGDCRFVSATFRLFKHSKTGPTKRCQVIYNGGITGHEKELMFANFTFKEGEIV  
EVDEETAAILKNSRFAQDFLIRPIGEKLPTSGGCSALELKDIITDPFKLAEESDSMKSRC  
VPDAAGGCCGTTKSC

>sp|Q8WXX4|ASB12\_HUMAN Ankyrin repeat and SOCS box protein 12 OS=Homo sapiens GN=ASB12  
PE=1 SV=2

MNLMIDITKIFSLQPDKEEEDTDTEEKQALNQAVYDNDSTLDQLLRQERYKRFINSRSG  
WGVPGTPLRLAASYGHLSCQLVLLAHGADVDSLVDKAQTPLFTAVSHGHLDQVRVLEAG  
ASPGGSIYNNCSPVLTAARDGAVAILQELLDHGAEANVKAKLPVWASNIASCSGPLYLAA  
VYGHLDCFRLLLHGADPDYNCTDQGLLARVPRPRTLLEICLHHNCEPEYIQLLIDFGAN  
IYLPSSLDLTSQDDKGIALLLQARATPRSLLSQVRLVRRALCQAGQPQAINQLDIPPM  
LISYLBHQL

>sp|Q02410|APBA1\_HUMAN Amyloid beta A4 precursor protein-binding family A member 1 OS=Homo  
sapiens GN=APBA1 PE=1 SV=3

MNHLEGSAAVEVTDEAAGGEVNESVEADLEHPEVEEEQQPPQQHYVGRHQRGRALEDL  
RAQLGQEEEEERGECLARSASTESGFHNHTDTAEGDVIAAARDGYDAERAQDPEDESAYAV  
QYRPEAEYEYEQAEAEHAEATHRRALPNHLHFHSLHEEAMNAAYSGYVYTHRLFHRGED  
EPYSEPYADYGLQEHVYEEIGDAPELDARDGLRLYEQERDEAAAYRQEALGARLHHYDE  
RSDGESDSPEKEAEFAPYPRMDSYEQEEIDQIVAEVKQSMSSQSLDKAAEDMPEAEQDL  
ERPPTAGGRPDSPGLQAPAGQRAVGPAGGGEAGQYSKEKRDAISLAIKDIKEAIEEV  
KTRTIRSPYTPDEPKEPIWVMRQDISPTRCDDQRPMGDSPSPGSSSPLGAESSSTSLH  
PSPDVEASTNKESRSLASFPTYVEVPGPCDPEDLIDGIIFAANYLGSTQLLSDKTPSKN  
VRMMQAQEAVSRIKMAQKLAKSRKKAPEGESQPMTEVDLFISTQRIKVLNADTQETMMDH  
PLRTISYIADIGNIVLMARRRMPRSNSQENVEASHPSQDGKRQYKMICHVFESEDAQLI  
AQSIGQAFSVAYQEFLRANGINPEDLSQKEYSDLLNTQDMYNDLIHFSKSENCKDVFIE  
KQKGEILGVVIVESGWSILPTVIIANMMHGGPAEKSGKLNIGDQIMSINGTSLVGLPLS

TCQSI IKGLKNQSRVKLNIVRCPPVTTVLIRRPDLRYQLGFSVQNGIICSLMRGGIAERG  
GVRVGHRIEINGQSVVATPHEKIVHILSNAVGEIHMKTMPAAMYRLLTAQEQPVYI

>sp|Q99767|APBA2\_HUMAN Amyloid beta A4 precursor protein-binding family A member 2 OS=Homo sapiens GN=APBA2 PE=1 SV=3

MAHRKLESVSGSMLDHRVRPGVPVPHSQEPESEDMELPLEGYVPEGLELAALRPESPAPEE  
QECHNHSPDGDSSSDYVNNTSEEDYDEGLPEEEEGITYYIRYCPEDDSYLEGMDCNGEE  
YLAHSAHPVDTDECQEAVEEWTDSAGPHPHGHEAEGSQDYPDQQLPIPEDEPSVLEAHDQ  
EEDGHYCASKEGYQDYYPEEANGNTGASPYRLRRGDGLEDQEEDIDQIVAEIKMSLSMT  
SITSASEASPEHGPEPGPEDSVEACPPIKASCSPSRHEARPKSLNLLPEAKHPGDPQGRF  
KPKTRTPEERLKWPHQVCNGLEQPRKQQRSDLNPGVDNNNIPETKKVASFPSFVAVPGP  
CEPEDLIDGIIFAANYLGSTQLLSERNPSKNIRMMQAQEA VSRVKRMQKAAIKKKANSE  
GDAQTLTEVDLFISTQRIKVLNADTQETMMDHALRTISYIADIGNIVLMARRRMPSAS  
QDCIETTPGAQEGKKQYKMICHVFESEDAQLIAQSIGQAFSVAYQEFLRANGINPEDLSQ  
KEYSDIINTQEMYNDLIHFSNSENCKELQLEKHKGEILGVVVVESGWGSILPTVILANM  
MNGGPAARSGKLSIGDQIMSINGTSLVGLPLATCQGI IKGLKNQTQVKLNIVSCPPVTTV  
LIKRPDLKYQLGFSVQNGIICSLMRGGIAERGGVRVGHRIEINGQSVVATAHEKIVQAL  
SNSVGEIHMKTMPAAMFRLLTGQETPLYI

>sp|095704|APBB3\_HUMAN Amyloid beta A4 precursor protein-binding family B member 3 OS=Homo sapiens GN=APBB3 PE=1 SV=2

MLGKDYMLAIILVNCDDDLWGDHSLEVEAGLPPGWRKIHDAAGTYYWHVPSGSTQWQRPT  
WELGDAEDPGTGTEGIWGLRPPKGRSFSLESSLDRSNSLSWYGGESYIQSMEPGAKCFA  
VRSLGWVEVPEEDLAPGKSSIAVNNCIQQLAQTRSRSPPDGAWGEGQNMILMKDAMS  
LVNPLDHSLIHCQPLVHIRVWGVGSSKGRDRDFAFVASDKDSCMLKCHVFCCDVPAKAIA  
SALHGLCAQILSERVEVSGDASCCSPDPISPEDLPRQVELLDVSAQAQKYEALYMGTLT  
VTKAMGMDVLNEAIGTLTARGDRNAWVPTMLSVDSLMTAHP IQAEASTEEELWQCPVR  
LVTFIGVGRDPHTFGLIADLRGSFQCAAFWCQPHAGGLEAVQAACMVQYQKCLVASAA  
RGKAWGAQARARLRLKRTSSMDSPGGPLPLPLLKGGVGGAGATPRKRGVFSFLDAFRLKP  
SLLHMP

>sp|Q92624|APBP2\_HUMAN Amyloid protein-binding protein 2 OS=Homo sapiens GN=APPBP2 PE=1 SV=2

MAAVELEWIPETLYNTAISAVVDNYIRSRDIRSLPENIQFDVYYKLYQQGRLCQLGSEF  
CELEVFAKVLRALDKRHLLHHCQALMDHGKVASVLAYSFSRRCSYIAESDAAVKEKAI  
QVGFLVGGFLSDAGWYSDAEKVFLSCLQLCTLHDEMLHWFRAVECCVRLHVRNGNCKYH  
LGEETFKLAQTYMDKLSKHGQKANKAALYGELCALLFAKSHYDEAYKWCIEAMKEITAGL  
PVKVVVDVLRQASKACVVKREFKAEQLIKHAVYLARDHFGSKHPKYSDTLLDYGFYLLN  
VDNICQSVAIYQAALDIRQSVFGGKNIHVATAHEDLAYSSVHGYSSGKFDNALFHAERA  
IGIITHILPEDHLLASSKRKALILEEIAIDCHNKETEQRLLQEAHDLHLSLQLAKKA  
FGEFNVQTAKHYGNLGRLYQSMRKFKEAEEMHIKAIQIKEQLLGQEDYEVALSVGHLASL  
YNYDMNQYENAEKLYLRSIAIGKKLFGEYSGLEYDYRGLIKLYNSIGNYEKVFYHNVL  
SNWNRLRDRQYSVTDALDVEDVSTSPQSTEEVVQSFLISQNVEGPSC

>sp|Q9UM13|APC10\_HUMAN Anaphase-promoting complex subunit 10 OS=Homo sapiens GN=ANAPC10 PE=1 SV=1

MTTPNKTPPGADPKQLERTGTVREIGSQAVWSLSSCKPGFGVDQLRDDNLETYWQSDGSQ  
PHLVNIQFRRKTTVKTLCIYADYKSDSYTPSKISVRVGNFHNLQEIRQLELVEPSGWI

HVPLTDNHKKPTRTFMIQIAVLANHQNGRDTHMRQIKIYTPVEESSIGKFPRCTTIDFMM  
YRSIR

>sp|Q9NYG5|APC11\_HUMAN Anaphase-promoting complex subunit 11 OS=Homo sapiens GN=ANAPC11  
PE=1 SV=1

MKVKIKCWNGVATWLWVANDENCGICRMAFNGCCPDCKVPGDDCPLVWGQCSHCFHMHCI  
LKWLHAQQVQQHCPMCRQEWFKE

>sp|Q8WW43|APH1B\_HUMAN Gamma-secretase subunit APH-1B OS=Homo sapiens GN=APH1B PE=1 SV=3

MTAAVFFGCAFIAGFPALALYVFTIATEPLRIIFLIAGAFFWLVSLLISSLVWFMARVII  
DNKDGPQTQKYLIFGAFVSVYIQEMFRFAYYKLLKKASEGLKSINPGETAPSMRLLAYVS  
GLGFGIMSGVFSFVNTLSDSLPGPTVGIHGDSPPQFFLYSAFMLVIIILLHVFWGIVFFDG  
CEKKKWGILLIVLLTHLLVSAQTFISSYYGINLASAFIILVLMGTWAFLAAGGSCRSLKL  
CLLCQDKNFLLYNQRSR

>sp|P05090|APOD\_HUMAN Apolipoprotein D OS=Homo sapiens GN=APOD PE=1 SV=1

MVMLLLLLSALAGLFGAAEGQAFHLGKCPNPPVQENFDVNKYLGRWYEIEKIPTTFENGR  
CIQANYSLMENGKIKVLNQELRADGTVNQIEGEATPVNLTEPAKLEVKFSWFMPSAPYWI  
LATDYENYALVYSCTCIQLFHVDFAWILARNPNLPPETVDSLKNILTSNNIDVKKMTVT  
DQVNCPKLS

>sp|P10398|ARAF\_HUMAN Serine/threonine-protein kinase A-Raf OS=Homo sapiens GN=ARAF PE=1  
SV=2

MEPPRGPPANGAEPsRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLKALKVRGLNQDCCV  
VYRLIKGRKTVTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTTFFSLAFCDCLKFLF  
HGFRCQTCGYKFHQHSSKVPTVCVDMSTNRQQFYHSVQDLGGSRQHEAPSNRPLNELL  
TPQGSPRTQHCDPEHFPPAPANAPLQIRISTSTPNVHMVSTTAPMDSNLIQLTGQSFS  
TDAAGSRGSDGTPRGSPSPASVSSGRKSPHSKSPAQRERKSLADDDKKVKNLGYRDSG  
YYWEVPPSEVQLLKRI GTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRK  
TRHVNILLFMGMFTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGMDYL  
HAKNI IHRDLKSNNIFLHEGLTVKIGDFGLATVKTRWSGAQPLEQPSGSVLWMAAEVIRM  
QDPNPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMVGRGYLSPDLSKISSNCPK  
AMRRLSDCLKFQREERPLFPQILATIELLQRSPLKIERASASEPSLHRTQADELPACLLS  
AARLVP

>sp|Q6UW56|ARAID\_HUMAN All-trans retinoic acid-induced differentiation factor OS=Homo  
sapiens GN=ARAID PE=1 SV=2

MAPHDPGSLTTLVPWAAALLLALGVERALALPEICTQCPGSVQNLSKVAFYCKTTRELML  
HARCCLNQKGTILGLDLQNCSEDPGPNFHQAHTTVIIDLQANPLKGD LANTFRGFTQLQ  
TLILPQHVNCPGGINAWNTITSYIDNQICQGQKNLCNNTGDPEMCPENGSCVPDGPGLLQ  
CVCADGFHGYKMRQGSFSLMFFGILGATTL SVSILLWATQRRKAKTS

>sp|Q8WWN8|ARAP3\_HUMAN Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing  
protein 3 OS=Homo sapiens GN=ARAP3 PE=1 SV=1

MAAPQDLDI AVWLATVHLEQYADTFRRHGLATAGAARGLGHEELKQLGISATGHRKRILR  
LLQTGTEEGSLDPKSDSAMEPSPSPAPQAQPPKVPKPRTVFGGLSGPATTQRPGLSPAL  
GGPGVSRSPESPRPPPLPTSSSEQSSALNTVEMMPNSIYFGLDSRGAQAAQDKAPDSS  
QISAPTALRPPTGT VHIMDPGCLYYGVQVGPVTPGAPDRRESRGVCQGRAEHRLSRQDLE  
AREDAGYASLELPGDSTLLSPTLETEETSDDLISPYASFSFTADRLTPLLSGWLDKLS PQ  
GNYV FQRRFVQFNGRSLMYFGSDKDPFPKGVIP LTAIEMTRSSKDNKFQVITGQRVFVFR

TESEAQRDMWCSTLQSCLEQRLLGHRPPQPPRPLRTGMLELRGHKAKVFAALSPGELA  
LYKSEQAFSLGIGICFIELQGCSVRETKSRSFDLLTPHRCFSFTAESGGARQSWAAALQE  
AVTETLSDYEVAEKIWSNRANRQCADCGSSRPDWAAVNLGVVICKQCAGQHRALGSGISK  
VQSLKLDTSVWSNEIVQLFIVLGNDRANRFWAGTLPPGEGLHPDATPGPRGEFISRKYRL  
GLFRKPHPQYPDHSQLLQALCAAVARNLLKNMTQLLCVEAFEGEEPWFPPAPDGSCPGL  
LPSPSPGVYNEVVVRATYSGFLYCSVSNKAGPSPRRGRDAPPRLWCVLGAALMFAS  
ENSPEPLSLIQPQDIVCLGVSPPTDPGDRFPFSFELILAGGRIQHFGTDGADSLEAWTS  
AVGKWFSPLSCHQLLGPGLRLGRLWLRSPSHTAPAPGLWLSGFGLLRGDHLFLCSAPGP  
GPPAPEDMVHLRRLQEISVVSAAATPDKKEHLVLVETGRTLQEGEGLDFTAWNAAIGG  
AAGGGGTGLQEQQMSRGDIPIIVDACISFVTQHGLRLEGVYRKGGARARSLRLAEFRRD  
ARSVKLRPGEHFVEDVDTLKRFFRELDDPVSARLLPRWREAAELPQKNQRLEKYKDV I  
GCLPRVNRRTLATLIGHLYRVQKCAALNQMCTRNLALLFAPSVFQTDGRGEHEVRVLQEL  
IDGYISVFDIDSDQVAQIDLEVSLITTWKDVQLSQAGDLIMEVYIEQQLPDNCVTLKVSP  
TLTAEELTNQVLEMRGTAAGMDLWVTFEIREHGELERPLHPKEKVLEQALQWCQLPEPCS  
ASLLLKKVPLAQAGCLFTGIRRESPRVGLLRCREEPPRLGSRFQERFFLLRGRCLLLK  
EKKSSKPEREWPLEGAKVYLGIRKKLPPTPWGFTLILEKMHLYLSTDEDEMWDWTSI  
LKAQHDDQQPVLRRHSSDLARQKFGTMPLLPARGDDSGATLLSANQTLRRLHNRRTLS  
MFFPMKSSQGSVEEQEELEEPVYEEVYEEVGAFPELIQDTSTSFSTTREWTVKPENPLT  
SQKSLDQPFSLKSSTLGQEERPPEPPPGPPSKSSPQARGSLLEEQLLQELSSLILRKGETT  
AGLGSPSPSSPQSPSPTGLPTQTPGFPTQPPCTSSPPSSQPLT

>sp|Q8N726|ARF\_HUMAN Tumor suppressor ARF OS=Homo sapiens GN=CDKN2A PE=1 SV=2

MVRRFLVTLRIRACGPPRVRFVHHIPRLTGEWAAPGAPAAVALVLMLLRSQRLGQQPL  
PRRPGHDDGQRPSGGAAAAPRRGAQLRRPRHSHPTRARRCPGGLPGHAGGAAPGRGAAGR  
ARCLGPSARGPG

>sp|P78540|ARGI2\_HUMAN Arginase-2, mitochondrial OS=Homo sapiens GN=ARG2 PE=1 SV=1

MSLRGSLRLLQTRVHSILKKSVMHSAVIGAPFSQGQKRKGVEHGPAAREAGLMKRLSS  
LGCHLKDFGDLSTFPVKDDLYNNLIVNPRSVGLANQELAEVVSRAVSDGYSCVTLGGDH  
SLAIGTISGHARHCPDLCVVWVDAHADINTPLTTSSGNLHGQPVSFLLRELQDKVPQLPG  
FSWIKPCISSASIVYIGLRDVPPEHFILKNYDIQYFSMRDIDRLGIQKMERTFDLLIG  
KRQRPIHLSFDIDAFDPTLAPATGTPVVGGLTYREGMYIAEEIHNTGLLSALDLVEVNPQ  
LATSEEEAKTTANLAVDVIASSFGQTREGGHIVYDQLPTPSSPDESENQARVRI

>sp|Q9NWB6|ARGL1\_HUMAN Arginine and glutamate-rich protein 1 OS=Homo sapiens GN=ARGLU1  
PE=1 SV=1

MGRSRSRSSSRSKHTKSSKHKKRSRSRSRDKERVKRKSKSRESKRNRRRESRSRSRS  
TNTAVSRREDRERASSPPDRIDIFGRTVSKRSSLDEKQKREEEKKAEFERQRKIRQQE  
IEEKLIEEETARRVEELVAKRVEEELEKRKDEIEREVLRRVEEAKRIMEKQLLEELERQR  
QAELAAQKAREEEERAKREELERILEENNRKIAEAQAKLAEEQLRIVEEQRKIHEERMKL  
EQERQRQQKEEQKIILGKGSRPKLSFSLKTQD

>sp|Q96PS8|AQP10\_HUMAN Aquaporin-10 OS=Homo sapiens GN=AQP10 PE=2 SV=2

MVFTQAPAEIMGHLRIRSLARQCLAEFLGVFVLMLLTQGAVAQAVTSGETKGNFFTMFL  
AGSLAVTIAIYVGGNVSGAHLNPAFSLAMCIVGRLPWVKLPYIILVQLLSAFCASGATYV  
LYHDALQNYTGGNLTVTGPKETASIFATYPAPYLSLNNGLDQVLGTGMLIVGLLAILDR  
RNKGVPAGLEPVVVGMLILALGLSMGANCGIPLNPARDLGPRLFTYVAGWGPEVFSAGNG  
WWWVPVAPLVGATVGTATYQLLVALHHPEGPEPAQDLVSAQHKASELETPASAQMLECK

L

>sp|A6NL99|AQP73\_HUMAN Putative aquaporin-7-like protein 3 OS=Homo sapiens GN=AQP7P3 PE=5 SV=2

MVQASGHRSTRGSKMVSWSVIAKIQEICERKMAREFLAEFMSTYVMMVFGLGSAHMLL  
NKTFGSYLGVNLGFGFGVTMGVHMAGRTSGAHMNAVSLTNCALGRVPWRKFPVYVLGQF  
LGSFLAAATIYSLFYTAILHFSGGELMVTGPVATVGIFATYLPDHMTLWRGFLNEEWLTG  
MLQLCLFAIVDQENNPALPGTHALVIGILVVIIRVYHGMNTGYAINPSRDLPPRIFTFIA  
GWGKLVFSDGENLWWVPVAPLLGASLGGIIYLVFIGSTIPREPLKLEDSVAYEDHGITV  
LPKMGSHEPMISPLTLISVSPANRSSVHPAPPLHESMALEHF

>sp|Q3SXY8|AR13B\_HUMAN ADP-ribosylation factor-like protein 13B OS=Homo sapiens GN=ARL13B PE=1 SV=1

MFSLMASCCGWFKRWREPVRKVTLTMVGLDNAGKTATAKGIQGEYPEDVAPTGVGFSKINL  
RQGKFEVTIFDLGGGIRIRGIWKNYAESYGVIFVVDSSDEERMEETKEAMSEMLRHPRI  
SGKPIVLANKQDKEGALGEADVIECLSLEKLVNEHKCLCQIEPCSAISGYGKKIDKSIK  
KGLYLLHVIARDFDALNERIQKETTEQRALEEQEKQERAERVRLREERKQNEQEQAEL  
DGTSGLAELDPEPTNPFQPIASVIEENEGKLEREKKNQKMEKDSGCHLKHKMEHEQIET  
QGGQVNHNGQKNEFGLVENYKEALTQQLKNEDETRPSLESANGKKKTKKLRMKRNHRVE  
PLNIDDCAPESPTPPPPPPVWGTPKVTRLPKLEPLGETHHNDFYRKPLPPLAVPQRPN  
SDAHDVIS

>sp|Q8IWT0|ARCH\_HUMAN Protein archease OS=Homo sapiens GN=ZBTB80S PE=1 SV=2

MAQEEEDVRDYNLTTEEKAIKAKYPPVNRKYEYLDHTADVQLHAWGDTLEEAFAQCAMAM  
FGYMTDTGTVEPLQTVEVETQGDDLQSLLFHFLDEWLYKFSADFFIPREVKVLSIDQRN  
FKLRSIGWGEEFSLSKHPQGTEVKAITYSAMQVYNEENPEVFVIIDI

>sp|O15033|AREL1\_HUMAN Apoptosis-resistant E3 ubiquitin protein ligase 1 OS=Homo sapiens GN=AREL1 PE=1 SV=3

MFYVIGGITVSVAFFFTIKFLFELAAARVVSFLQNEDRERRGDRTIYDYVRGNYLDPRSC  
KVSWDWKDPYEVGHSMARVHLYFKNGQPFPAHRPVGLRVHISHVELAVEIPVTQEVLQE  
PNSNVKVAFTVRKAGRYEITVKLGGNLVAYSPYYKIFQPGMVVPSKTKIVCHFSTLVLT  
CGQPHTLQIVPRDEYDNPTNNSMSLRDEHNYTLSEHELGPQEEESTGVSFEKSVTSNRQT  
FQVFLRLTLHSRGCFHACISYQNQPINNGEFDIIVLSEDEKNIVERNVSTSGVSIYFEAY  
LYNATNCSSTPWHLPMMHTSSQRRPSTAVDEEDEDSPSECHTPEKVKKPKKVYCYVSPK  
QFSVKEFYLKIIPWRLYTFRVCPGTFKFSYLGPDVHKLLTLVDDGIQPPVELSCKERNI  
LAATFIRSLHKNIGGSETFQDKVNFQRELQVHMKRPHSKVTLKVSRHALLESSLKATR  
NFSISDWSKNFEVVFQDEEALDWGGPRREWFELICKALFDTTNQLFTRFSDNNQALVHPN  
PNRPAHLRLKMYEFAGRLVGKCLYESSLGGAYKQLVRARFTRSFLAQIIGLRMHYKYFET  
DDPEFYKSKVCFILNNDMSEMELVFAEEKYNKSGQLDKVVELMTGGAQTPVTNANKIFYL  
NLLAQYRLASQVKEEVEHFLKGLNELVPENLLAIFDENELELLMCGTGDISVSDFKAHAV  
VVGGSWHFREKVMRWFWTVVSSLTQEELARLLQFTTGSSQLPPGGFAALCPSFQIIAAPT  
HSTLPTAHTCFNQLCLPTYDSYEEVHRMLQLAISEGCEGFGML

>sp|Q9NP61|ARFG3\_HUMAN ADP-ribosylation factor GTPase-activating protein 3 OS=Homo sapiens GN=ARFGAP3 PE=1 SV=1

MGDPSKQDILTIKRLRSVPTNKVCFDCGAKNPSWASITYGVFLCIDCSGSHRSLGVHLS  
FIRSTELDSNWSWFLRCMQVGGNASASSFFHQHCSTNDTNAKYNRAAQLYREKIKSL  
ASQATRKHGTDLWLDSCVVPPLSPPPKEEDFFASHVSPEVSDTAWASAIAPSSLTSPRV

ETTLENNEGGQEQGPSVEGLNVPTKATLEVSSIIKKPNQAKKGLGAKKGS LG AQLANT  
CFNEIEKQAQAADKMKEQEDLAKVVSKEESIVSSRLAYKDLEIQMKKDEKMNISGKKNV  
DSDRLMGFGNCRSVISHSVTSDMQTIEQESPIMAKPRKKYNDSDSDSYFTSSSSYFDEP  
VELRSSSFSSWDDSDSYWKKETSKDTETVLKTTGYSDRPTARRKPDYEPVENTDEAQQK  
FGNVKAISSDMYFGRQSQADYETRARLERLSASSSISSADLFEEPRKQPAGNYSLSSVLP  
NAPDMAQFKQGVRSVAGKLSVFANGVVTSIQDRYGS

>sp|Q9HCE6|ARGAL\_HUMAN Rho guanine nucleotide exchange factor 10-like protein OS=Homo sapiens GN=ARHGEF10L PE=1 SV=3

MASSNPPPPQAIGDQLVPGVPGPSSEAEDDPGEAFEFDDSDDEEDTSAALGVPSLAPERD  
TDPPLIHLDSIPVTDPDPAAPPGTGVPAPVWSNGDAADAAFGARHSSWKRKSSRRIDRF  
TFPALEEDVIYDDVPCESPDAHQPAGERNLLYEDAHAGAPRQAEDLGWSSSEFESYSED  
SGEEAKPEVEVEPAKHRVSFQPKLSPDLTRLKERYARTKRDILALRVGGRDMQELKHKYD  
CKMTQLMKAASGTDGLEKTRMAVMRKVSFLHRKDVLDGSEEDMGLLEVSVSDIKPPA  
PELGPMPEGLSPQVVRRIHILGSIVQSEGSYVESLKRILQDYRNPLMEMEPKALSARKCQ  
VVFFRVKEILHCHSMFQIALSSRVAEWDSTEKIGDLFVASFSKSMVLDVYSDYVNNFTSA  
MSIIKKACLTKPAFLEFLKRRQVCSPDRVTLYGLMVKPIQRFPQFILLQLDMLKNTPRGH  
PDRLSLQLALTELETLAEKLNEQKRLADQVAEIQQLTKSVSDRSSLNKLTSGQRQLLLC  
ETLTETVYGDRGQLIKSKERRVFLNDMLVCANINFKPANHRGQLEISSLVPLGPKYVVK  
WNTALPQVQVVEVGQDGGTYDKDNVLIQHSGAKKASASGQAQNKVYLGPPRLFQELQDLQ  
KDLAVVEQITLLISTLHGTYNLNMVTAQDWCLALQRLMRVKEEIIHSANKCRLRLLLP  
KPKDSGRPI SFMVVFI TPNPLSKI SWVNRLHLAKIGLREENQPGWLCPEDEKKSAPFWC  
PILACCIPAFSSRALSLQLGALVHSPVNCPLLGFSAVSTSLPQGYLWVGGGQEGAGGQVE  
IFSLNRPSRPTVKSFLAAPVLCMEYIPELEEEAESRDESPTVADPSATVHPTICLGLQD  
GSILLYSSVDTGTQCLVSCRSPGLQPVLCLRHSPFHLLAGLQDGTAAYPRTSGGVLDL  
ESPPVCLTVGPGPVRTLLSLEDAVWASCGPWVTVLEATTLPQQSFQEAHQDEAVSVTHMV  
KAGSGVWMAFSSGTSIRLFHTETLEHLQEINIATRTTFLPGQKHLCTVSLICQGLLV  
GTDQGIVILLPVPRLEGIPKITGKGMVSLNGHCGPVAFLAVATSILAPDILRSDQEEAEG  
PRAEEDKPDGQAHEPMPDSHVGRELTRKKGILLQYRLRSTAHLPGPLLSMREPAPADGAA  
LEHSEEDGSIYEMADDPDIWVRSRPCARDAHRKEICSVAIISGGQGYRNFGSALGSSGRQ  
APCGETDSTLLIWQVPLML

>sp|Q92888|ARHG1\_HUMAN Rho guanine nucleotide exchange factor 1 OS=Homo sapiens GN=ARHGEF1 PE=1 SV=2

MEDFARGAASPGPSRPLVPVSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLM  
ALLQHVALQFEPGPLLCCLHADMLGSLGPKEAKKAFLDFYHSFLEKTAVLRVPVPPNVA  
ELDRTRADLISEDVQRRFVQEVVQSQQVAVGRQLEDFRSKRLMGMTPEQELAQLEAVVG  
RDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLYMRHLGVRTKSGDKKS  
GRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPGATD  
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREPGADAPLELGDSSPQGPMLES  
APPESTDEGAETESPEPGDEGEPEGRSGLELEPEEPPGWRELVPDTLHSLPKSQVKRQEV  
ISELLVTEAAHVRLRVLHDLFFQPMACELFFPLEELQNI FPSLDELIEVHSLFLDRLMK  
RRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFCSRQSFQLEQLKAKQRKDP RFCAFV  
QEAESRPRCRLQLKDMIPTEMQRLTKYPLLLQSIGQNTTEPTEREKVELAAECCREILH  
HVNQAVRDMEDLLRLKDYQRRDL SHLRQSSDPMLSEFKNLDITKKKL VHEGPLTWRTK  
DKAVEVHVLLDDLLLLLRQDERLLKSHSRTLTPPDGKTMLRPVLR L TSAMTREVAT

DHKAFYVLF TWDQEAQIYELVAQTVSERKNWCALITETAGSLKVPAPASRPKPRPSPSST  
REPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQAATALRKVLSLKQLLFP  
AEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEEEFCLRLPLLSQ  
LGGNSVPQPGCT

>sp|Q6ZSZ5|ARHGI\_HUMAN Rho guanine nucleotide exchange factor 18 OS=Homo sapiens  
GN=ARHGEF18 PE=1 SV=3

MVTGTNILPSRPAASANTAREDAALFSRRIPPRHKNGAAQPGAAPGPGAPGANMGNAHS  
KSGDRHSALPGRPELSFYGSFPRKWSENVFLDNELLTSKILSVLRPQSERGFRAGDLRYP  
THFLSTNSVLASVTASLKEHPRGTLLSDGSPALSRNVGMTVSQKGGPQPTPSPAGPGTQL  
GPITGEMDEADSAFLKFKQTADDSLSLTSPNTESIFVEDPYTASLRSEIESDGHEFEAES  
WSLAVDAAYAKKQKREVVKRQDVLYELMQTEVHHVRTLKIMLKVYSRALQEELQFSSKAI  
GRLFPCADDLLETHSHFLARLKERRQESLEEGSDRNYVIQKIGDLLVQQFSGENGERMKE  
KYGVFCSGHNEAVSHYKLLLQNKKFQNLIKKIGNFSIVRRLGVQECILLVTQRITKYPV  
LVERIIQNTEAGTEDYEDLTQALNLIKDIIISQVDAKVSECEKGQRLREIAGKMDLKSSSK  
LKNGLTFRKEDMLQRQLHLEGLMCWKTTSGRLKDILAILLTDVLLLLQEKDQKYVFASVD  
SKPPVISLQKLIVREVANEKAMFLISASLQGPMEYIYTSSKEDRNAWMAHIQRAVESC  
PDEEGFPFSLPEERKVVPEARATRLRDFQERLSMKDQLIAQSLEKQKIYLEMAEMGGLE  
DLPQPRGLFRGGDPSETLQGELILKSAMSEIEGIQSLICRQLGSANGQAEDGGSSTGPPR  
RAETFAGYDCTNSPTKNGSFKKKVSSTDPRPRDWRGPPNSPDLKLSDSIPGSSEESPQV  
VEAPGTESDPRLPVTLESELVQRIQTLSQLLLLNLQAVIAHQDSYVETQRAAIQEREKQFR  
LQSTRGNLLEQERQRNFEKQREERAALKQLRHEQQRWERERQWQHQLERAGARL  
QEREGEARQLRERLEQERAELERQRAYQHDLERLREAQRAVERERERLELLRRLKKQNT  
APGALPPDTLAEAQPPSHPPSFNGEGLEGPRVSMPLPSGVGPEYAEPEVARRDSAPTENR  
LAKSDVPIQLLSATNQFQRQAAVQQQIPTKLAASKGGKDKGGKSRGSQRWESSASFDLK  
QQLLLNKLMDKDESTSRNRRSLSPILPGRHSPAPPPDPGFPAPSPPPADSPSEGFSLKAG  
GTALLPGPPAPSPLPATPLSAKEDASKEDVIF

>sp|Q8N7S6|ARI20\_HUMAN Uncharacterized protein ARIH2OS OS=Homo sapiens GN=ARIH2OS PE=2  
SV=1

MLGQRAGDGERPGLPGDGEVGPARPGRRAERPPQRPKVNKAVTCAHLPGAAASRPLS  
PNKPDRVRPGQRDRIGAKRQRRRRADAGQARAASSRRVPTAPEVLGAVASLPDRGRPTV  
ARVATGSRLEGLFSAASLKLSALTQSLTRVRQAPTASGATIRLPASPVMFLTSAFLTGF  
SFHCLYSYGIGHGEDILASVEQITIVSRPLSGQRGAGPGNSAYTPRRSQGPRAATTPGFR  
FPCRGLVRRRAVLRLTVTVQDCILTALLAVSFHSIGVVIMTSSYLLGPVVK

>sp|O95376|ARI2\_HUMAN E3 ubiquitin-protein ligase ARIH2 OS=Homo sapiens GN=ARIH2 PE=1  
SV=1

MSVDMNSQGSDSNEEDYDPNCEEEEEEDDPGDIEDYVGVASDVEQQGADAFDPEEYQ  
FTCLTYKESEGALNEHMTSLASVLKVSHSVAKLILVNFHWQVSEILDYKSNQAQLLVEA  
RVQPNPSKHVPTSHPPHCAVCMQFVRKENLLSLACQHQFCRSCWEQHCSVLVKDGVGVG  
VSCMAQDCPLRTPEDFVFPLLPNEELREKYRRYLFRDYVESHYQLQLCPGADCPMVIRVQ  
EPRARRVCNRCNEVFCFKCRQMYHAPTDCATIRKWLTKCADDSETANYISAHTKDCPKC  
NICIEKNGGCNHMQCSKCKHDFCWMCLGDWKTHGSEYYECSRYKENPDIVNQSQAQARE  
ALKKYLIFYFERWENHNKSLQLEAQTYQRIHEKIQERVMNNLGTWIDWQYLQNAAKLLAKC  
RYTLQYTPYAYYMESGPRKKLFEYQQAQLEAEIENLSWKVERADSYDRGDLENQMHIIE  
QRRRTLLKDFHDT



>sp|P29374|ARI4A\_HUMAN AT-rich interactive domain-containing protein 4A OS=Homo sapiens  
GN=ARID4A PE=1 SV=3

MKAADPEAYLTVGTDVSAKYRGAFCEAKIKTVKRLVKVKVLLKQDNTTQLVQDDQVKGPL  
RVGAIVETRTSDGSFQEAIISKLTDAWYTVVFDDGDERTLRRTSLCLKGERHFAESETL  
DQLPLTNPEHFGTPVIAKKTNRGRSSLPVTEDKEKEEESSEEDDKRRLNDELLGKVVS  
VVSATERTEWYPALVISPCNDDITVKKDQCLVRSFIDSKFYIARKDIKEVDILNLPES  
ELSTKPGLQKASIFLKTRVVPDNWKMDISEILESSSDDEDGPAEENDEEKEKEAKKTEE  
EVPEEELDPEERDNFLQQLYKFMEDRGTPINKPPVLGYKDLNLFKLFRLVYHQGGCDNID  
SGAVWKQIYMDLGIPILNSAASYNVKTAYRKLYGFEEYCRSANIQFRTVHHHEPKVKEE  
KKDLEESMEEALKLDQEMPLTEVKSEPEENIDSNSESEREEIELKSPRGRRRRIARDVNSI  
KKEIEEEKTEDKLDNDTENKDVDDDYETAEEKENELLGRKNTPKQKEKKIKKQEDSDK  
DSDEEEESQEREETESKCDSEGEDEEDMEPCLTGTKVVKYGRGKTQKIYEASIKSTE  
IDDGEVLYLVHYYGWNVRYDEWVKADRIIWPLDKGGPKKKQKKKAKNKEDSEKDEKRDEE  
RQKSKRGRPPKSTLSSNMPYGLSKTANSEGKSDSCSSDSETEDALEKNLINEELSLKDE  
LEKNENLNDDKLDEENPKISAHILKENDRTQMQLTLETKLEVGENEQIVQIFGNKMEKTE  
EVKKEAEKSPKGGRRSKTKDLSLEIIKISSFGQNEAGSEPHIEAHSLELSSLDNKNFSS  
ATEDEIDQCVKEKKLKRKILGQSSPEKKIRIENGMEMTNTVSQERTSDCIGSEGMKNLF  
EQHFERENEGMPSLIAESNQCIQQLTSERFDSPAEETVNIPLKEDEDAMPLIGPETLVCH  
EVDLDDLDEKDKTSIEDVAVESSESNSLVSIPPALPPVVQHNFSVASPLTLSQDESRSVK  
SESDITIEVDSIAEESQEGLCERESANGFETNVASGTCIIIVQERESREKGQKRPSDGNS  
GLMAKKQKRTPKRTSAAAKNEKNGTGQSSDSEDLPVLDNSSKCTPVKHLNVSKPQKLARS  
PARISPHIKDGEKDKHREKHPNSSPRTYKWSFQLNELDNMNSTERISFLQEKLQEIRKYY  
MSLKSEVATIDRRRRLKKKDREVSHAGASMSSASSDTGMSPSSSSPPQNVLAVECR

>sp|Q03989|ARI5A\_HUMAN AT-rich interactive domain-containing protein 5A OS=Homo sapiens  
GN=ARID5A PE=1 SV=2

MAAPVKGNRKQSTEGDALDPPASPKPAGKQNGIQNPISLEDSPEAGGEREEEQEREEQA  
FLVSLYKFMKERHTPIERVPHLGFKQINLWKIYKAVEKLGAYELVTGRRLWKNVYDELGG  
SPGSTSAATCTRRHYERLVLPYVRHLKGEDDKPLPTSKPRKQYKMAKENRGDDGATERPK  
KAKEERRMDQMMPGKTKADAADPAPLPSQEPPRNSTEQQGLASGSSVSFVGASGCPEAYK  
RLSSFYCKGTHGIMSPLAKKKLLAQVSKVEALQCQEEGCRHGAEPQASPAVHLPESPQS  
PKGLTENSRLTPQEGLQAPGGSRLREEAQAGPCPAAPIFKGCIFYHTPTVLKPVSQHPR  
DFFSRLKDGVLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGRKGILYPKPKACWVSP  
MAKVPAESPTLPPTFPSSPGLGSKRSLEEAGAAHSGKRLRAVSPFLKEADAKKCGAKPAG  
SGLVSCLLGPALGPVPPEAYRGTMHLHCLNFTGTGPLKGQAALPFSPLVIPAFPAHFLA  
TAGPSPMAAGLMHFPPTSFDLSALRHRLCPASSAWHAPPVTTYAAPHHFHLNTKL

>sp|P04424|ARLY\_HUMAN Argininosuccinate lyase OS=Homo sapiens GN=ASL PE=1 SV=4

MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRLGLEKAGLLTKAEM  
DQILHGLDKVAEEWAQGTFLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVT  
LRLWMRQTCSTLSGLLWELIRTMDRAEAERDVLFPGYTHLQRAQPIRWSHWILSHAV  
TRDSERLLEVRKRINVLPLGSGAIAGNPLGVDRELLRAELNFGAITLNSMDATSERDFVA  
EFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTGSSLMPQKKNPDSLELIRSKA  
GRVFGRCAGLLMTLKGLPSTYNKDLQEDKEAVFEVSDTMSAVLQVATGVISTLQIHQENM  
GQALSPDMLATDLAYYLVRKGMPFRQAHEASGKAVFMAETKGVALNQLSLQELQTISPLF  
SGDVICVWDYGHVSVEQYGALGGTARSSVDWQIRQVRALLQAQQA

>sp|Q7Z3E5|ARMC9\_HUMAN LisH domain-containing protein ARMC9 OS=Homo sapiens GN=ARMC9 PE=1 SV=2

MGDILAHESSELLGLVKEYLDFAEFEDTLKTFSECKIKGKPLCKTVGGSFRDSKSLTIQK  
DLVAAFNDGDQKVFFDLWEEHISSSIRDGDSFAQKLEFYLIHFIAIYLLKYSVGRPDKEE  
LDEKISYFKTYLETGAALSQTTEFLPFYALPFVPMVHPSFKELFQDSWTPELKLKLI  
KFLALISKASNTPKLLTIYKENGQSNKEILQQLHQQLVEAERRSVTYLKRYNKIQADYHN  
LIGVTAELVDSLEATVSGKMITPEYLQSVCVRLFSNQMRQSLAHSVDFTRPGTASTMLRA  
SLAPVKLKDVPLPSLDYEKLKKDLILGSDRLKAFLQLALRWRLTTSHPGEQRETVLQAY  
ISNDLLDCYSHNQSVLQLLHSTDVVRQYMARLINAFASLAEGRLYLAQNTKVLQMLEG  
RLKEEDKDIITRENVLGALQKFSLRRLPLQTAMIQDGLIFWLVDVLKDPDCLSDYITLEYSV  
ALLMNLCLRSTGKNMCAKVAGLVLVLSDLLGHENHEIQPYVNGALYSILSVPSIREEAR  
AMGMEDILRCFIKEGNAEMIRQIEFIKQLNSEELPDGVLESDDDEDEDEEDHDIMEAD  
LDKDELIQPQLGELSGEKLLTTEYLGIMTNTGKTRRKGLANVQWSGDEPLQRPVTPGGHR  
NGYPVEDQHTPPQTAQHARNHPQALPAAHEAVYREGKPSTPESCVSSSSAIIAKPGEW  
LPRGRQEEPRPAPTPRQPREAPQDPGNGVTRECAFTCKPRAPCTPEMLDWNPPKAK  
ASVLAPLFSSCGPQQASRPGSTASSTRGLPSSQSHRK

>sp|Q9H993|ARMT1\_HUMAN Protein-glutamate O-methyltransferase OS=Homo sapiens GN=ARMT1 PE=1 SV=1

MAVVPASLSGQDVGSFAYLTIKDRIPQILTKVIDTLHRHKSEFFEKHGEEGVAEKKAIS  
LLSKLRNELQTDKPFIPLVEKFVDTDIWNQYLEYQQSLLNESDGKSRWFYSPWLLVECYM  
YRRIHEAIIQSPPIDYFDVFKESKEQNFYGSQESI IALCTHLQQLIRTIEDLDENQLKDE  
FFKLLQISLWGNKCDLSLSGGESSQNTNVLNSLEDLKPFI LLNDMEHLWSLLSNCKKTR  
EKASATRVYIVLDSNGFELVTDLILADFLLSSELATEVHFYGKTIPWFVSDTTIHDFNWL  
IEQVKHSNHKWSKCGADWEYIKMGKWVYHNHIFWTLPHEYCAMPQVAPDLYAELQKAH  
LILFKGDLNRYKLTGDRKWEFSVPFHQALNGFHPAPLCTIRTLKAEIQVGLQPGQGEQLL  
ASEPSWWTTGKYGIFQYDGPL

>sp|P23582|ANFC\_HUMAN C-type natriuretic peptide OS=Homo sapiens GN=NPPC PE=1 SV=1

MHLSQLLACALLLTLLSLRPSEAKPGAPPKVPRTTPAEELAEPQAAGGGQKKGDKAPGGG  
GANLKGDRSRLRLDLRVDTKSRAAWARLLQEHPPNARKYKGANKKGLSKGCFGLKLDRIGS  
MSGLGC

>sp|Q86XL3|ANKL2\_HUMAN Ankyrin repeat and LEM domain-containing protein 2 OS=Homo sapiens GN=ANKLE2 PE=1 SV=4

MLWPRLAAAEWAALAWELLGASVLLIAVRWLVRRLGPRPGGLGRSGTPVPPPSAAAAPAS  
GEMTMDALLARLKLNPDDLREEIVKAGLKCGPITSTTRFIFEKLAQALLEQGGRLSSF  
YHHEAGVTALSQDPQRILKPAEGNPTDQAGFSEDRDFGYSVGLNPPEEEAVTSKTCVPP  
SDTDTYRAGATASKEPLYYGVCVPYEDVPARNERIYVYENKKEALQAVKMIKGSRFKAF  
STREDAEKFARGICDYFPSPSKTSLPLSPVKTAPLFSNDRLDKGLCLSESETVNKERANS  
YKNPRTQDLTAKLRKAVEKGEEDTFSDLIWSNPRYLIGSGDNPTIVQEGCRYNVMHVAAK  
ENQASICQLTLDVLENPDMRLMYPDDDEAMLQKRIRYVVDLYLNTPDKMGYDTPLHFAC  
KFGNADVNVNLSHHLIVKNSRNKYDKTPEDVICERSKNKSVELKERIREYLGHYVPL  
LRAEETSSPVIGELWSPDQTAEASHVSRYGGSPRPVLT LRAFAGPLSPAKAEDFRKLWK  
TPPREKAGFLHHVKSDPERGFERVGRELAHELGYPWVEYWEFLGCFVDLSSQEGLQRLE  
EYLTQQEIGKKAQQTGEREASCRDKATTSGSNSISVRAFLDEDDMSLEEIKNRQNAARN  
NSPPTVGAFGHTRCSAFPLEQEADLIEAAEPGGPHSSRNGLCHPLNHSRTLAKRPKAPR

GEEAHLPPVSDLTVEFDKLNQNGRSVSKTPDESTTKTDQILTSRINAVERDILLEPSPA  
DQLGNHRRTESEMSARIAKMSLSPSSPRHEDQLEVTREPARRLFLFGEEPSKLDQDVLA  
ALECADVDPHQFPAVHRWKSAVLCYSPSDRQSWSPSPAVKGRFKSQLPDLSGPHSYSPGRN  
SVAGSNPAKPGLGSPGRYSPVHGSQRLRRMARLAELAAL

>sp|Q9GZV1|ANKR2\_HUMAN Ankyrin repeat domain-containing protein 2 OS=Homo sapiens  
GN=ANKRD2 PE=1 SV=3

MAKAPSWAGVGALAYKAPEALWPAEAVMDGTMEDSEAVQRATALIEQRLAQEEENEKLRG  
DARQKLPMDLLVLEDEKHHGAQSAALQKVKGQERVVKTSLDLRREIIDVGGIQNLIELRK  
KRKQKKRDALAASHEPPPEPEEITGPVDEETFLKAAVEGKMKVIEKFLADGGSADTCDQF  
RRTALHRASLEGHMEILEKLLDNQATVDFQDRLDCTAMHWACRGGHLEVVKLLQSHGADT  
NVRDKLLSTPLHVAVRTGQVEIVEHFLSLGLEINARDREGDTALHDAVRLNRYKIIKLLL  
LHGADMMTKNLAGKTPDVLVQLWQADTRHALEHPEPGAENGLGPNDSGRETPQPVPAQ

>sp|Q6P2P2|ANM9\_HUMAN Putative protein arginine N-methyltransferase 9 OS=Homo sapiens  
GN=PRMT9 PE=2 SV=1

MSNSRPRSRRDAGGAGAAGRDELVSRLQSAEHCLGVQDFGTAYAHYLLVLSLAPELKH  
DVKETFYTLFRWAEELDALSRIQDLGCEYQALELFPDDEVICNSMGEHLFRMGFRDEA  
AGYFHKAVKLNPDFDAKENFYRVANWLVERWHFIMLNDTKRNTIYNAAIQKAVCLGSKS  
VLDIGAGTGILSMFAKKAGAHSVYACELSKTMYELACDVVAANKMEAGIKLLHTKSLDIE  
IPKHIPERVSLVVTETVDAGLFGEGIVESLIHAWEHLLLQPKTKGESANCEKYGKVIPAS  
AVIFGMAVECAEIRRHRVGIKDIAGIHLPTNVKFQSPAYSSVDTEETIEPYTTEKMSRV  
PGGYLALTECFEIMTVDFNNLQELKSLATKKPKDIGIPVIEGILDAIMVWFVLQLDDEH  
SLSTSPSEETCWEQAVYPVQDLADYWIKPGDHVMEVSCQDCYLRIQSIISVLGLECEMDV  
AKSFTQNKDLLSLGNEAELCSALANLQTSKPDAVEQTCILESTEIALNNIPYHEGFKMA  
MSKVLSSLTPEKLYQTMDTHCQNMSSGTGQSNVTQNILEPFYVLDVSEGFVLPVIAGT  
LGQVKPYSSVEKDQHRIALDLISEANHFPKETLEFWLRHVEDESAMLQRPKSDKLWSIII  
LDVIEPSGLIQEIMEKAAISRCLLQSGGKIFPQYVLMFGLLVESQTLLEENAVQGTER  
LGLNIAPFINQFQVPIRVFLDLSSLPCIPLSKPVELLRDLMTPLYNTSNREVKVYVCKS  
GRLTAIPFWYHMYLDEEIRLDTSSASHWKQAAVVDNPIQVEMGEELVLSIQHHKSNVS  
ITVKQ

>sp|Q8N7Z5|ANR31\_HUMAN Putative ankyrin repeat domain-containing protein 31 OS=Homo sapiens  
GN=ANKRD31 PE=5 SV=2

MEEGVQAPDWDSDETVIEGSVTESDLEEKELPWRRLFDQDASLKSEFSLHPDTRGMCKG  
MPSPEIQLGFKLREDLQEQMNKNMMPVLSEDITLQSQDETERNQALLQTRKNCSMFIGS  
FRQSGLSLNHQNIIEGPEAESPEVLPHIEKELSEGRDSPEVSLSGTAITVSDTVAVKETS  
LVEPEKILAAPNTFFEPKREVTMTMTSEETKDEESSLETFSVSAESLLTSPESTQEERLF  
ELVSDFDRKELMNPLSDSLSSISIPLNSWSACHRDLEDKDDALPAELLEALNTLSEAK  
VETICHRKEGGSSLIARNECLEVEFNSTQTNEDCTQIAETLQDPNPSGLQTLAHQNTSC  
EPLSNKRNSNSVTNSSDQETACVLRSSRLEKLVSRDAKYSDHMYKMEKILPKILGCE  
DLTNNSSAQNFRMQDPALMIDGKEKNMHSARFKNGKQIRKNEQFSGKKEKMKVNKISLH  
SINRRNIFGENLVYKAALHDDADLVHHCIKKGGNVNQPSYAGWTALHEASVGGFYRTASE  
LLKGGADVNIKGLYQITPLHDAVMNGHYKVAELLLLNGADPLFRNDDGKCALDEAKDCM  
KRLLERYIPKHQKCLTSAQRSSIDPLDIEDVYQHKPKFSSKSHIWHVYNENSNRQKLEH  
VKVNKGSKASLFINKEDVYEEYQKDPKNTKFGKSKHKQSTLDQIYSTGLRKGNLHNVKDP  
NTNVPKGI GRRKTQHKRTQVDDVDCNPRKILAVSPSRRINRLVTYQQHIPETHNDLPEEL

CEPSSLTSSLRNLDSSTEACSVSKEKHIQNLDLSDSQEVQCLELESVDQTEAVSFPGL  
LLHKEIKLPVVTDDKQPHLTQEQHHVLYKSHENSLVPKDERFNKWENSFLSFVKENDN  
DDDDDCSTSEKAITSKKVLCSTGGKKHYNFKENLTNKKEMGFQQFLLEDHLSQENELKA  
VSLTTLPEQEAVNFSYSDNAVISEHVANYEQCIFGPSFDHSNGNPEQNSLACMRTLTHE  
ASKLTNHVELFKKPQDYIPRAPTFMLNQTDTHIVEKMAKNCDTERNYIDRDQKIIYSNEP  
LSIVAHSQVIETTKVEKRRQNHLESETIHNIDSHSTDNMSKELANISKLSQREKKEISHK  
PGMKAGRINKRNARGESQLHLAVRRGNLPLVKALIESGADVNLNDNAGWTPLEASNEGS  
IDIIVELLKAGAKVNCENIDGILPLHDAVANNHLKAAEILLQNGANPNQKDQKQSALDE  
ADDEKMKELLRSYGAIETVNRDESDAIVNEKIPAVRSKRHKQCFCDGKTIDSSSLSHQE  
RSRESLSVHQTLSAILQDIEEKQEYLLEFEIRNPEDAEQYIEKMLKIKKIMDNVLAKQKA  
ERDDLAKKYRVSIESFKHGALREQLANLAARQKSLLVAKKQKKISLKIQNCRNVTSLPC  
LSLRKLPPRSEISSEKDSQELTLENLEHPQSGSLSPVSGSMQETQLSLETWNYSQNTNI  
CLNSEAVRRGEFSGNDMNSKQNGSDCTLDFPKSRHSDGTEKNKLPSQPVAFIGQTEYSQ  
KENDLTEATDKDHEFYVSSPVIGKLNISSETASVLAENAAHPSNICDQDLSNYDPKRGNR  
KTSSSQSPTGASESLAHQGI AVLGS DTVHQM KPYLKKSVSVVPCADDSQISSSSSGSGQQD  
TIKKALNYSTAPKKKCIQIKDLILLGRINPGNNILEFKTQETTHKASILLNGKLKVESGQ  
IYKNPVTWLKDLLGGSYVTWNYAWSKVTYLGKELRLRYVEDAPILPEPNSVPQQYQPC  
PEVACLDDPVQEPNKSMEFKTFKGQTSRESMQSSPRYLQINEILLISDQEFPLCHIMDQ  
HWKFCVECEELTP

>sp|Q8N283|ANR35\_HUMAN Ankyrin repeat domain-containing protein 35 OS=Homo sapiens  
GN=ANKRD35 PE=2 SV=2

MKRIFSCSSTQVAVERWNRHDQKLEAVHRGDVGRVAALASRK SARPTKLD SNGQSPFHL  
AASKGLTECLTILLANGADINSKNEDGSTALHLATISCQPQC VKVLLQHGANEDAVDAEN  
RSPLHWAASSGCASSVLLLCDHEAFLDVLNDGRTPLMIASLGGHAAICSQLLRGARVN  
VTDKNDKSALILACEKGS AEVAELLLSHGADAGAVDSTGHDALHYALHTQDKALWRHLQQ  
ALSRRRRGGQRLVQHPDLASQASPSEPQAGSPPKSSWRAEP EEEQEEKEDEDPCSEEW  
RW KYEEERRKVVRLEQELVQKTEECKTQAAAYLDLENQIREQAQELGVLLSWEPRASGKQGS  
SLRPGGDGMEQGCPKDLLAESTQELKKQQAATVNPVLAPKKAEDSAPGKIQYEVHGRS  
QP EEGPPQSPASETIRKATGQQLTTNGAQTFGPDHADQLPAGQKESQVLGVEPGGTVA  
EPVGPAAMNQLLLQLREELAAVWREKDAARGALSRPVMEGALGTPRAEAAAAAWEKMEAR  
LERVLARLEWAKAGLVKPEVPSQESREGALKAAPGSIKQDEEKEKRVPGARGEPLGALG  
GEKALGGLAKGQLEKEMSVLRLSNSNLEELGELGRERQRLQRELQSLSQRLQREFV PKP  
EAQVQLQQLRQSVGLLTNELAMEKEATEKLRKLLASQSSGLRGLWDCLPADLVGERSAQS  
KAAESLEELRACISTLVDRHREAQQV LARLQEENQQLRGSLSPCREPGTSLKAPASPQVA  
ALEQDLGKLEELRAVQATMSGKSQEIGKLKQLLYQATEEVAELRAREAASLRQHEKTRG  
SLVAQAQAWGQELKALLEKYNTACREVGRLREAVAEEERRRSGDLAAQAAEQERQASEMRG  
RSEQFEKTAELLKEKMEHLIGACRDKEAKIKELLKKLEQLSEEVLAIRGENARLALQLQD  
SQKNHEEIIISTYRNHLLNAARGYMEHEVYNILLQILSMEE

>sp|Q6AI12|ANR40\_HUMAN Ankyrin repeat domain-containing protein 40 OS=Homo sapiens  
GN=ANKRD40 PE=1 SV=2

MNALLEQKEQERLREAAALGDIREVQKLVESGVDVNSQNEVNGWTCLHWACKRNHGQVV  
SYLLKSGADKEILTTKGEMPVQLTSRREIRKIMGVEEEDDDDDDDNLPQLKKESELPFV  
PNYLANPAFPFIYTPTAEDSAQMNGGPSTPPASPPADGSPPLLPPGEPPLLGTFRDHT  
SLALVQNGDVSAPSAILRTPESTKPGPVCPPVVSQSRSLFSSVPSKPPMSLEPQNGTYAG

PAPAFQPFFFTGAFFPNMQELVLKVRIQNPSLRENDFIEIELDRQELTYQELLRVCCCEL  
GVNPDQVEKIRKLPLNTLLRKDKDVARLQDFQELELVLMISENNFLFRNAASTLTERPCYN  
RRASKLTY

>sp|Q8N9B4|ANR42\_HUMAN Ankyrin repeat domain-containing protein 42 OS=Homo sapiens  
GN=ANKRD42 PE=2 SV=2

MPGVANS GPSTSSRETANPCSRKKVHFGSIHDAVRAGDVKQLSEIVCLHWLLWHGADITH  
VTTRGWTASHIAAIRGQDACVQALIMNGANLTAQDDRGC TPLHLAATHGHSFTLQIMLRS  
GVDPSVTDKREWRPVHYAAFHGRLGCLQLLVKWGCSIEDVDYNGNLPVHLAAMEGHLHCF  
KFLVSRMSSATQVLKAFNDNGENVLDLAQRFFKQNILQFIQGAIEYEGKDLEDQETLAFPG  
HVAAFKGD LGMLKKLVEDGVININERADNGSTPMHKAAGQGHI ECLQWLKMGADSNITN  
KAGERPSDVAKRFAHLAAVKLLEELQKYDIDDENEIDENDVKYFIRHGV EGSTDAKDDLC  
LSDLDKTDARRPSKNCRASWSMNDYVEKN

>sp|Q8N8A2|ANR44\_HUMAN Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat  
subunit B OS=Homo sapiens GN=ANKRD44 PE=1 SV=3

MAVLKLTDPPLVQAI FSGDPEEIRMLIHKTEDVNTLDSEKRTPLHVA AFLGDAEII ELL  
ILSGARVNAKDNMWLTPLHRAVASRSEEAVQVL IKHSADV NARDKNWQTPLHVA AANKAV  
KCAEVI IPLLSSVNSDRGGRTALHHAALNGHVEMVNLLAKGANINAFDKKDRRALHWA  
AYMGHLDV VALLINHGA EVTCKDKGYTPLHAAASNGQINVVKHLLNLGVEIDEINVYGN  
TALHIACYNGQDAVVNELIDYGANVNQPNNGFTPLHFAAASTHGALCELLLVNNGADV N  
IQSKDGKSPLHMTAVHGRFTRSQTLIQNGGEIDCVDKDGNTPLHVAARYGHELLINTLIT  
SGADTAKCGIHSMFPLHLAALNAHSDCCRKLSSGFEIDTPDKFGRTCLHAAAAGGNVEC  
IKLLQSSGADFHKDKCGRTPLHYAAANCHFHCIETLVTTGANVNETDDWGR TALHYAAA  
SDMDRNKTILGNAHDNSEELERARELKEKEATLCLEFLLQNDANPSIRDKEGYSIH YAA  
AYGHRQCLELLLLERTNSGFEESSGATKSPLHLAAYNGHHQALEVLLQSLVDLDIRDEKG  
RTALDLAAFKGHTECVEALINQGASIFVKDNVTKRTPLHASVINGHTLCRL LLEIADNP  
EAVDVKDAKGQTPLMLAVAYGHIDAVSLLLEKEANVDTV DILGCTALHRGIMTGHEECVQ  
MLLEQEVSI LCKDSRGRTPLHYAAARGHATWLSELLQMALSEEDCCFKDNQGYTPLHWAC  
YNGNENCIEVLLEQKCFRKFIGNPFTPLHCAIINDHGNCASLLLGAIDSSIVSCRDDKGR  
TPLHAAAFADHVECLQLLLRHSAPVNAVDNSGKTALMMAAENGQAGAVDILVNSAQADLT  
VKDKDLNTPLHLACSKGHEKCALLILDKIQDESLINEKNNALQ TPLHVAARNGLKV VVEE  
LLAKGACVLAVDENASRSNGPRSTPGTAVQKEE

>sp|Q8N9V6|ANR53\_HUMAN Ankyrin repeat domain-containing protein 53 OS=Homo sapiens  
GN=ANKRD53 PE=1 SV=3

MASAGSTARRAGSGSWHSERGEGRGARPQPTPSGSMQQANKVSLKATWTDAESKQPSQPL  
PDLADHLSAQATALARPRRPASLT PPRADPPSPSKESDQTAIDQTAIGSY YQLFAAAVGNV  
EWLRFCLNQSLEIPTDDKGFTAIHFAAQWGLACLQVLVEEYKFPVDLLT NNSQTPLHL  
VIHRDNTTVALPCIYYLLEKGADLNAQTCNGSTPLHLAARDGLLDCVKVLVQSGANVHAQ  
DAMGYKPIDFCKIWNHRACARFLKDAMWKKDKKDFAREMTKMKMFKS QTLMEHNYLIEY  
QKEHKILREAAIRKWLHGKLHPGHSLVSNTKQARATASKTPEQRESQRSRSFHP SVDAR  
LQCIPQPTMPKPIYRKPTVKRPTMWNVSNNPARPPTTQISHSQGIRLG VHPDPTPEHDF  
SSFLEVRPDGHGGARLHTVDGHWVAPVPRLPFEVLLRMLYPRVWPYRMKVPQGFYPI SMR  
EVPKRHLGDNTFTWDTLAMNLRDTFDEAFLAAVRSHQGLPTLPSPQ TNP

>sp|Q6NXT1|ANR54\_HUMAN Ankyrin repeat domain-containing protein 54 OS=Homo sapiens  
GN=ANKRD54 PE=1 SV=2

MAAAAGDADDEPRSGHSSSEGECAVAPEPLTDAEGLFSFADFGSALGGGGAGLSGRASGG  
AQSPRLRYLHVLWQQDAEPRDELRCRIPAGRLRRAARPHRRLGPTGKEVHALKRLRDSANA  
NDVETVQQLLEDGADPCAADDKGRITALHFASCNGNDQIVQLLLDHGADPNQRDGLGNTPL  
HLAACTNHVPVITLLRGGARVDALDRAGRTPLHLAKSKLNILQEGHAQCLEAVRLEVKK  
IIHMLREYLERLGQHEQQRERLDDLCTRLQMTSTKEQVDEVTDLLASFTSLSLQMQSMEKR  
>sp|C9JTQ0|ANKR63\_HUMAN Ankyrin repeat domain-containing protein 63 OS=Homo sapiens  
GN=ANKRD63 PE=3 SV=1

MLKPKDLCPRAGTRTFLEAMQAGKVHLARFVLDALDRSIIDCRAEQGRTPMLVAVGLPDP  
ALRARFVRLLEQGAANLRLDERGRTALSLACERGHLDVQLLVQFSGDPEAADSAGNSP  
VMWAAACGHGAVLEFLVRSFRRLGLRLDRTNRAGLTALQLAAARGHGTVCVQALTGPWGRA  
AAAAAARGSNSDSPGRPAPAAASPEHRRPSPRRLPRLLARFARAAGGHGGEAGSAGKNS  
GRHRAQGSERPELGRSMLALGAVTEEEAARLRAGALMALPNPQSSGTGRWRSQEVLEG  
APPTLAQAPIGLSPHEGGPGSGRLGLRRRSTAPDIPSLVGEAPGPESGPELEANALSVS  
VPGPNPWQAGTEAVVLAQR

>sp|P04083|ANXA1\_HUMAN Annexin A1 OS=Homo sapiens GN=ANXA1 PE=1 SV=2  
MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGV  
DEATIIDILTKRNNAAQRQKIAAYLQETGKPLDETLKKALTGHLEEVLLALLKTPAQFDA  
DELRAAMKGLGTDEDTLIEILASRTNKEIRDINRVYREELKRDIAKDTSDTSGDFRNAL  
LSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGTDVNVFNTILTTRSYPQLRRVFQKY  
TKYSKDHMNKVLDELKGDIEKCLTAIVKCATSKPAFFAEKLHQAMKGVGTRHKALIRIM  
VSRSEIDMNDIKAFYQKMYGISLCQAILDETKGDYEKILVALCGGN

>sp|P12429|ANXA3\_HUMAN Annexin A3 OS=Homo sapiens GN=ANXA3 PE=1 SV=3  
MASIWWGHRGTVRDYPDFSPSDAEAIQKAIIRGIGTDEKMLISILTERSNAQRQLIVKEY  
QAAYGKELKDDLKGDLSGHFEHLMVALVTPPAVFDAKQLKSMKGAGTNEDALIEILTTR  
TSRQMKDISQAYYTVYKSLGDDISSETSGDFRKALLTLADGRRDESLKVDEHLAKQDAQ  
ILYKAGENRWGTDEDKFTEILCLRSFPQLKLTDEYRNISQKDIVDSIKGELSGHFEDLL  
LAIVNCVRNTPAFLAERLHRAKLGIGTDEFTLNRIMVSRSEIDLDIRTEFKKHGYSLY  
SAIKSDTSGDYEITLLKICGDD

>sp|P08758|ANXA5\_HUMAN Annexin A5 OS=Homo sapiens GN=ANXA5 PE=1 SV=2  
MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLTSRSNAQRQEISAFFKL  
FGRDLLDLKSELTGKFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPE  
ELRAIKQVYEEYEGSSLEDDVVGDTSGYYQRMVLVLLQANRPDAGIDEAQVEQDAQALF  
QAGELKWGTDEEKFITIFGTRSVSHLRKVFDKYMTISGFQIEETIDRETSGNLEQLLLAV  
VKSIRSIPAYLAETLYAMKGAGTDDHTLIRVMVSRSEIDLFNIRKEFRKNFATSLYSMI  
KGDTSGDYKALLLLCGEDD

>sp|P08133|ANXA6\_HUMAN Annexin A6 OS=Homo sapiens GN=ANXA6 PE=1 SV=3  
MAKPAQGAKYRGSIHDFPGFDPNQDAEALYTAMKFGSDKEAILEDIITSRSNRQRQEVCC  
SYKSLSYKGLDIADLYELTGKFERLIVGLMRPPAYCDAKEIKDAISGIGTDEKCLIEILA  
SRTNEQMHQLVAAYKDAYERDLEADIIIGDTSGHFQKMLVLLQGTTREDDVVSDELVQQD  
VQDLYEAGELKWGTDEAQFIYILGNRSKQHLRLVFDEYLKTTGKPIEASIRGELSGDFEK  
LMLAVVKCIRSTPEYFAERLFKAMKGLGTRDNTLIRIMVSRSELDMLDIREIFRTKYEKS  
LYSMIKNDTSGEYKKTLLKLSGGDDDAAGQFFPEAAQVAYQMWELSAVARVELKGTVRPA  
NDFNPDAKALRKAMKGLGTDEDTIIDIIITHRSNVQRQQIRQTFKSHFGRDLMTDLKSE  
ISGDLARLILGLMPPAHYDAKQLKKAMEGAGTDEKALIEILATRTNAEIRAINAEAYKED

YHKSLEDALSSDTSGHFRILISLATGHREEGGENLDQAREDAQVAEILEIADTPSGDK  
TSLETRFMTILCTRSYPHLRRVFQEFIKMTNYDVEHTIKKEMSGDVRDAFVAIVQSVKNK  
PLFFADKLYKSMKGAGTDEKTLTRIMVSRSEIDLLNIRREFIEKYDKSLHQAIEGDTSGD  
FLKALLALCGGED

>sp|O95782|AP2A1\_HUMAN AP-2 complex subunit alpha-1 OS=Homo sapiens GN=AP2A1 PE=1 SV=3

MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVC  
KLLFIFLLGHDIDFGHMEAVNLLSSNKYTEKQIGYLFISVLVNSNSELIRLINNAIKNDL  
ASRNPTFMCLALHCIANVGSREMGFAADIPRILVAGDSMDSVKQSAALCLRLRYKASP  
DLVPMGEWTARVVHLLNDQHMGVVTAASVSLITCLCKNPDDFKTCVSLAVSRLSRIVSSA  
STDLDQDYTYFVPAPWLSVKLLRLLQCYPPPEDAAVKGRLECELETVLNKAQEPKSKKV  
QHSNAKNAILFETISLIHYDSEPNLLVRACNLGQFLQHRETNLRYLAESMCTLASSE  
FSHEAVKTHIDTVINALKTERDVSVRQRAADLLYAMCDRSNAKQIVSEMLRYLETADYAI  
REEIVLKVAILAKEYAVDYSWYVDITLNLIRIAGDYVSEEVYRVLQIVTNRDDVQGYAA  
KTVFEALQAPACHENMVKGGYILGEFGNLIAGDPRSSPPVQFSLHSHFHLCSVATRAL  
LLSTYIKFINLPETKATIQQVLRAGSQLRNADVELQQRAVEYLTLSVASTDVLATVLE  
EMPPFPERESSILAKLKRKKGPGAGSALDDGRRDPSSNDINGGMEPTPSTVSTSPSADL  
LGLRAAPPPAAPPASAGAGNLLVDVFDGPAAQPSLGPTEEAFLSELEPPAPESPMALLA  
DPAPAADPGPEDIGPPIPEADELLNKFVCKNNGVLFFENQLLQIGVKSEFRQNLGRMYLFY  
GNKTSVQFQNFSPTVVHPGDLQTLAVQTKRVAAQVDGGAQVQVLNIECLRDFLTPPLL  
SVFRYGGAPQALTLKLPVTINKFFQPTEMAAQDFQRWKQLSLPQQEAQKIFKANHPMD  
AEVTKAKLLGFGSALLDNVDNPNPENFVGAGIIQTKALQVGCLLRLEPNAQAQMYRLTLRT  
SKEPVSRHLCELLAQQF

>sp|Q96DE5|APC16\_HUMAN Anaphase-promoting complex subunit 16 OS=Homo sapiens GN=ANAPC16  
PE=1 SV=1

MAASSSSSSAGGVSGSSVTGSGFSVSDLAPPRKALFTYPKGAGEMLEDGSEFLCESVFS  
YQVASTLKQVKHDQQVARMEKLAGLVEELEADEWRFKPIEQLLGFTPSSG

>sp|Q8J025|APCD1\_HUMAN Protein APCDD1 OS=Homo sapiens GN=APCDD1 PE=1 SV=1

MSWPRLLLLRYLPALLHGLGEGSALLHPDSRSHPRSLEKSAWRAFKESQCHHMLKHLH  
NGARITVQMPPTIEGHWSTGCEVRSQPEFITSYRFYHNNTFKAYQFYYSNRCTNPTY  
TLIIRGKIRLRQASWIIIRGGTEADYQLHNVQVICHTEAVAIEKLGQQVNRTCPLADGGP  
WVQDVAYDLWRENGCECTKAVNFAMHELQLIRVEKQYLHHNLDHLVEELFLGDIHTDAT  
QRMFYRPSSYQPLQNAKNHDAHACRIIYRSDEHHPPIPPKADLTIGLHGEWVSQRC  
EVRPEVLFLTRHFIFHDNNNTWEGHYHYSDPVCKHPTFSIYARGRYSRGVLSRVMGGT  
EFVFKVNHMKVTPMDAATASLLNVFNGNECGAEGSWQVGIIQQDVTHTNGCVALGIKLPHT  
EYEIFKMEQDARGRYLLFNGQRPSDGSSPDRPEKRATSYQMPLVQCASSSPRAEDLAEDS  
GSSLYGRAPGRHTWSLLLAACLVLPHWNIRR

>sp|Q96BI3|APH1A\_HUMAN Gamma-secretase subunit APH-1A OS=Homo sapiens GN=APH1A PE=1 SV=1

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIIIVAGAFFWLVSLLASVWVILVHVT  
DRSDARLQYGLLIFGAASVLLQEVFRFAYYKLLKKADEGLASLSEDRSPIISIRQMAYV  
SGLSFGIISGVFSVINILADALGPGVVGIHGDSPPYFLTSAFLTAAILLHTFWGVVFFD  
ACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLWAFITAGGSLRSIQ  
RSLLCRRQEDSRVMVYSALRIPPED

>sp|Q8IW19|APLF\_HUMAN Aprataxin and PNK-like factor OS=Homo sapiens GN=APLF PE=1 SV=1

MSGGFELQPRDGGPRVALAPGETVIGRPLLGITDKRVSRRHAILEVAGGQLRIKPIHTN

PCFYQSSEKSQLPLKPNLWCYLNPGDSFSLVDKYIFRILSIPSEVEMQCTLRNSQVLD  
EDNILNETPKSPVINLPHETTGASQLEGSTEIAKTQMTPTNSVSFLGENRDCNKQPILA  
ERKRILPTWMLAEHLSQNLSPVPAISGGNVIQSGSGKEEICKDKSQLNTTQQGRRQLISSG  
SSENTSAEQDTGEECKNTDQEESTISSKEMPQSFSAITLSNTEMNNIKTNAQRNKLPIEE  
LGKVSXHKIATKRTPHKEDEAMSCSENCSSAQGDSLQDESQGSSESSNPSNPETLHAK  
ATDSVLQGSEGNKVKRTSCMYGANCYRKNPVHFQHFHSHPGSDYGGVQIVGQDETDDRPE  
CPYGPSCYRKNPQHKIEYRHNTLPVRNVLDEDNDNVGQPNEYDLNDSFLDDEEEDYEPTD  
EDSDWEPEGKEDEEKEDVEELLKEAKRFMKRK

>sp|P02656|APOC3\_HUMAN Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1  
MQPRVLLVALLALLASARASEADASLLSFMQGYMKHATKTAKDALSSVQESQVAQQAR  
GWVTDGFSSSLKDYWSTVKDKFSEFWDLDPVRPTSAVAA

>sp|P02749|APOH\_HUMAN Beta-2-glycoprotein 1 OS=Homo sapiens GN=APOH PE=1 SV=3  
MISPVLLLFSSFLCHVAIAGRTCPKPDDLFPSTVVPLKTFYEPGEEITYSCKPGYVSRGG  
MRKFICPLTGLWPINTLKCTPRVCPFAGILENGAVRYTTFEYPNTISFSCNTGFYLNAD  
SAKCTEEGKWSPELPCAPIICPPPSIPTFATLRVYKPSAGNNSLYRDTAVFECLPQHAM  
FGNDTITCTTHGNWTKLPECREVKCFPSRPDNGFVNYPKPTLYYKDKATFGCHDGYSL  
DGPEEIECTKLGNWSAMPSCASKCPVVKATVVYQGERVKIQEKFKNGMLHGDVSVFFC  
KNKEKKCSYTEDAQCIDGTIEVPKCFKEHSSLAFWKTDASDVKPC

>sp|O14791|APOL1\_HUMAN Apolipoprotein L1 OS=Homo sapiens GN=APOL1 PE=1 SV=5  
MEGAALLRVSVLCIWMSALFLGVGRAEEAGARVQQNVPSGTDGDPQSKPLGDWAAGTM  
DPESIFIEDAIKYFKEKVSTQNLLLLLTDNEAWNGFVAAAELPRNEADELRKALDNLAR  
QMIMKDKNWHDKGQQYRNWFLKEFPRLKSELEDNIRRLRALADGVQKVHKGTTIANVVSG  
SLSISSGILTLVGMGLAPFTEGGSVLLEPGMELGITAALTGITSSTMDYGKKWWTQAQA  
HDLVIKSLDKLKEVREFLGENISNFLSLAGNTYQLTRGIGKDIRALRRARANLQSVPHAS  
ASRPVTEPIESAESGEQVERVNEPSILEMSRGVKLTDVAPVSFFLVLDVVYLVYESKHLH  
EGAKSETAEELKKVAQELEEKLNLNNNYKILQADQEL

>sp|Q8IVJ8|APRG1\_HUMAN AP20 region protein 1 OS=Homo sapiens GN=APRG1 PE=2 SV=2  
MKTMATRKRCCLSRGTPEFENVIKRLLCARTFHTRIGDLTHGIINRGRRANAEQMGLQG  
SAQHFNIFPLDLWTQGKKTEVQKREGTDSIPAAGRSGTANQPSIAPHRCFLFSRGITALDG  
LKRGRGCNGAAHLVRGDAWTKLGEPPVWSIALALAGPGAILILELSWFLG

>sp|Q8N6H7|ARFG2\_HUMAN ADP-ribosylation factor GTPase-activating protein 2 OS=Homo sapiens GN=ARFGAP2 PE=1 SV=1  
MAAEPNKTEIQTFLKRLRAVPTNKACFDGAKNPASWASITYGVFLCIDCSGVHRSGLGVHL  
SFIRSTELDSNWNWFQLRCMQVGGNANATAFFRQHGCTANDANTKYNSRAAQMYREKIRQ  
LGSAAARHGTDLWIDNMSSAVPNHSPEKKDSDFTEHTQPPAWDAPATEPSGTQQPAPS  
TESSGLAQPEHGPNTDLLGTSPKASLELKSSIIGKKKPAAAKKGLGAKKGLGAQKVSSQS  
FSEIERQAQVAEKLREQQAADAKKQAEESMVASMRLAYQELQIDRKKEEKKLQNLGKKR  
EQAERLGMGLVSRSSVSHSVLSEMQVIEQETPVSAKSSRSQDLDFDDVGTAFSGPPKYKD  
NPFSLGESFGSRWDTDAAWGMDRVEEKEPEVTISSIRPISERATNRREVESRSSGLESSE  
ARQKFAGAKAISSDMFFGREVDAEYEARSRLQQLSGSSAISSSDLFGDMDGAHGAGSVSL  
GNVLPATADIAQFKQGVKSVAGKMAVLANGVMNSLQDRYGSY

>sp|A8MVX0|ARG33\_HUMAN Rho guanine nucleotide exchange factor 33 OS=Homo sapiens GN=ARHGEF33 PE=2 SV=2  
MEKTKTKQGENEHMPVNNPSTQIYQLQALASELKTGFTEAMQELSRIQHGEYALEEKVKS



CRCSMEEKVTEMKNSLNYFKEELSNAMSMIQAITSKQEEMQQKIEQLQQEKRRRESRKVKA  
KKTQKEEHSSQAGPAQAQGSFPRSINIEPVLPSDFTNLLPSQAYEKAQESRSVHVGD  
NVKGMMPGVNPTTPEAEENLKSCLSAIQSKGHLPSGMWRQPKDGKEWGEEYVTKDHPD  
KLKEAGQGRHSSLENVLCETSLAAKRQTVALELLESERKYVINISLILKIKATFQGS  
RNSKERSLFPGLRYLVQQHLLHALQERVLKWPQGVLDLFLKLTNDENNFLDYVVA  
YLRDLPECISLVHVVLKEGDEEIKSDIYTLFFHIVQRIPEYL IHLQNVLKFTQEHPDY  
YLLLCVQRLRVFISHYTLLFCQNEDLLIQKRKKLKKSSMAKLYKGLASQCANAGQDASP  
TAGPEAVRDTGIHSEELLQPYPSAPSSGPAITHLMPPVKKSQQQSLMESMQPGKPSDWE  
LEGRKHERPESLLAPTQFCAAEQDVKALAGPLQAIPEMDFESSPAEPLGNVERSLRAPAE  
LLPDARGFVPAAYEEFEYGGEIFALPAPYDEEPPQAPALFENCSPASSESSLDICFLRPV  
SFAMEAERPEHPLQLPKSATSPAGSSSAYKLEAAAQAHGKAKPLSRSLKEFPRAPADG  
VAPRLYSTRSSSGRAPIKAERAAQAHGPAAAAVAARGASRTFFPQQRSQSEKQTYLEVR  
REMHLEDTRFCPKEERESEQTSFSDQNPRQDQKGGFRSSFRKLFKKKNGNATGEDFCGP  
WGWW

>sp|Q8N4T4|ARG39\_HUMAN Rho guanine nucleotide exchange factor 39 OS=Homo sapiens  
GN=ARHGEF39 PE=1 SV=1

MELSCPGSRCPVQEQRARWERKTRACTARELLETERRYQEQLGLVATYFLGILKAKGTLRP  
PERQALFGSWELIYGASQELLPYLEGGCWGGLEGFCRHLELYNQFAANSERSQTTLQEQ  
LKKNGGFRFVRLQEGRPEFGGLQLQDLLPLPLQRLQYENLVVALAENTGPNSPDHQQL  
TRAARLISETAQRVHTIGQKQKNDQHLRRVQALLSGRQAKGLTSGRWFLRQGWLLVPPH  
GEPRPRMFFLFTDVLMAKPRPPLHLLRSGTFACKALYPMAQCHLSRVFGHSGGPCGGLL  
SLSFPHEKLLLMSTDQEELSRWYHSLTWAISSQKN

>sp|A1IGU5|ARH37\_HUMAN Rho guanine nucleotide exchange factor 37 OS=Homo sapiens  
GN=ARHGEF37 PE=2 SV=2

MAKHGADEPSSRSGSPDREGRASEDRSLLHQLAVRELIDTEVSYLHMLQLCASDIRSRL  
QQLPQGDLDFLFSNIDDIKVNRSRFLHDLQETASKEEEQVQLVGNIFLEFQEELEQVYKV  
YCASYDQALLVDTYRKEPELQRHIQGIVEAVVPQAGSSGLSFLVIPLQRITRYPLLLQ  
KILENTVPDASAYPVLQRAVSALQDVNTNINEYKMRKEVASKYTKVEQLTLRERLARINT  
HTLSKKTTRLSQLLKQEAGLIPRTEDKEFDDLEERFQVWSLCVTELKNNVAAYLDNLQAF  
LYFRPHEYNLDIPEGPAVQYCNLARDLHLEAFLKFKQRLEGLVWQPLCSLAKALLGPQNL  
IKKRLDKLLDFERVEEKLELVGSVTYQEEAARHTYQALNSLLVAELPQFNQLVMQWLGGI  
MCTFVTLQRDLAKQVLQRAEGSMAQLPHHHVPEPAFRKLVEDALGRTSNQLRSFQETF  
VQPPPTTQPLPGSERQVQALLSRYGPGKLYQVTSNISGTGTLDTLPRGQIVAILQNKD  
TKGNSGRWLVDTGGRGYVPAGKLQLYHVPVSAEELRRQAGLNKDPRLTPEPSPALVPS  
IPTMNQVIAAYPFVARSSHEVSLQAGQPVTILEAQDKKGNPEWSLVEVNGQRGYVPSGFL  
ARARSPVLWGWSLPS

>sp|Q92974|ARHG2\_HUMAN Rho guanine nucleotide exchange factor 2 OS=Homo sapiens GN=ARHGEF2  
PE=1 SV=4

MSRIESLTRARIDRSRELASKTREKEKMKAKDARYTNGHLFTTISVSGMTMCYACNKS  
TAKEALICPTCNVTIHNCKDTLANCTKVKKQKQKAALLKNNTALQSVSLRSKTTIRERP  
SSAIYPSDSFRQSLGSRGRSSLSLAKSVSTNIAGHFNDSPGLRRILSQSTDLSNM  
RNRTLVSLESLIDEAEVIYSELMSDFEMDEKFAADSWSLAVDSSFLQKHKEVMKQDVI  
YELIQTELHHVRTLKIMTRLFRTGMLEELHLEPGVVQGLFPCVDELSDIHRFLSLLER  
RRQALCPGSTRNFVIHRLGDLNISQFSGPSAEQMCKTYSEFCSRHSKALKLYKELYARDK

RFQQFIRKVTRPAVLKRHGVQECILLVTQRITKYPLLISRILQSHGIEEERQDLTTALG  
LVKELLSNVDEGIYQLEKGARLQEIYNRMDPRAQTPVPGKGPFGREELLRRKL IHDGCLL  
WKTATGRFKDVLVLLMTDVLVFLQEKDQKYIFPTLDKPSVVSLLQNLIVRDIANQEKGMFL  
ISAAPPEMYEVHTASRDDRSTWIRVIQQSVRTCPSREDFLIETEDEAYLRRIKMELQQK  
DRALVELLREKVGLFAEMTHFQAEEDGGSGMALPTLPRGLFRSELES PRGERLLQDAIR  
EVEGLKDLLVGPVVELLLTPREPALPLEPDSGGNTSPGVTANGEARTFNCSIELCRADSD  
SSQRDRNGNQLRSPQEEALQRLVNLYGLLHGLQAABAQDTLMEARFPEGPERREKLCRA  
NSRDGEAGRAGAAPVAPEKQATELALLQRQHALLQEELRRCRRLGEERATEAGSLEARLR  
ESEQARALLEREAEARRQLAALGQTEPLPAEAPWARRPVDPRRRSLPAGDALYLSFNPP  
QPSRGTDRLDLPVTTTRSVHRNFEDRERQELGSPEERLQDSSDPDTGSEEEGSSRLSPPHS  
PRDFTRMQDIPEETESRDGEAVASES

>sp|Q8NFD5|ARI1B\_HUMAN AT-rich interactive domain-containing protein 1B OS=Homo sapiens  
GN=ARID1B PE=1 SV=2

MAHNAGAAAAAGTHSAKSGGSEALKEGGSAAALSSSSSSAAAAAASSSSSSGPGSAME  
TGLLPNHKLKTVGEAAPPHQHHHHHHHAHHHHHHHAHLHHHHALQQQLNQFQQQQQQQ  
QQQQQQQQQQHPISNNNSLGGAGGGAPQPGPDMEQPQHGGAKDSAAGGQADPPGPPLLS  
KPGDEDDAPPKMGEPAAGGRYEHPLGALGTQQPPVAVPGGGGPAAVPEFNYYGSAAPA  
SGGPGGRAGPCFDQHGGQQSPGMGMMHSASAAAAGAPGSMDPLQNSHEGYPNQC�HYPG  
YSRPGAGGGGGGGGGGGGGGGGGGGGGAGAGGAGAGAVAAAAAAGGGGGGGYGG  
SSAGYGLVSSPRQQGGGMMMPGGGGAASLSKAAAGSAAGGFQRFAGQNHQPSGATPTLN  
QLLTSPSPMMRSYGGSYPEYSSPSAPPPPSQPQSAAAAAGAAAGGQAAAAGMGLGKDMG  
AQYAAASPAAAAQQRSHPAMSPGTPGPTMGRSQGSPMDPMVMKRPQLYGMGSNPHSQPQ  
QSSPYPGGSYGPPGPRYPIGIQGRTPGAMAGMQYPQQMPQYQQGVSGYCQQGQPY  
YSQQPQPPHLPQAQYLPSQSQRYPQQQDMSQEGYGRSQPPLAPGKPNHEDLNLIQQE  
RPSSLPDLSGSIDDLPTGTEATLSSAVSASGSTSSQGDQSNPAQSPFSPHASPHLSSIPG  
GPSPSPVGSVPVGSNRSRGPISPASIPGSQMPPQPPGSQSESSHPALSQSPMPQERGFM  
AGTQRNPQMAQYGPQQTGPSMSPHSPGGQMHAGISSFQQSNSSGTYPQMSQYGPQGY  
SRPPAYSGVPSASYSGPVGMGISANNQMHGQGPSQPCGAVPLGRMPSAGMQNRPFPGNM  
SSMTPSSPGMSQQGGPGMGPPMPTVNRKAQEAAMVMAAANSAQSRQGSFPGMNQSGLM  
ASSSPYSQPMNSSLMNTQAPPYSMAPAMVNSSAASVGLADMMSPGESKLPLPLKADGK  
EEGTPQPESKSKSSSTTTGEKITYELGNEPERKLWVDRYLTFMEERGSPVSSLPV  
GKKPLDLFRLYVCVKEIGGLAQVNKNKKWRELATNLNVTSSSAASSLKKQYIQYLF  
CKIERGEEPPPEVFSTGDTKKQPKLQPPSPANSGLQGPQTPQSTGSNSMAEVPGLKPP  
TPASTPHGQMTMQGGRSSTISVHDPFSDVSDSSFPRKNSMTPNAPYQQGMSMPDVMGRM  
PYEPNKDPFGMRKVPGSSEPFTQGQMPNSSMQDMYNQSPSGAMSNLGMGQRQFPYGA  
SYDRRHEPYGQYPGQPPSGQPPYGGHQPLYPQQPNYKRHMDGMYGPPAKRHEGDMYN  
MQYSSQQQEMYNQYGGSYSGPDRRPIQGQYPYPYSRERMQGPQIQTHGIPPQMMGGPLQ  
SSSSEGPQQNMWAARNDMPYPYQNRQGGGPTQAPPYPGMNRTDDMMVPDQRINHESQWP  
SHVSQRQPYMSSASMQPITRPPQPSYQTPPSLPNHISRAPSPASFQRSLENRMSPSKSP  
FLPSMKMQKVMPVTPTSQVTGPPPPPPPIRREITFPPGSVEASQPVLKQRRKITSKD  
IVTPEAWRVMSLSKGLLAESTWALDTINILLYDDSTVATFNLSQLSGFLELLVEYFRKCLID  
IFGILMEYEVGDPQSKALDHNAARKDDSQLADDSGKEEEDAECIDDDDEEEDDEEEDSE  
KTESDEKSSIALTAPDAAADPKEKPKQASKFDKLPKIVKKNLFFVDRSDKLRVQEFN  
SGLLHWQLGGGDTTEHIQTHFESKMEIPRRRRPPPLSSAGRKKEQEGKGDSEEQKEKSI

IATIDDLVSARPGALPEDANPGPQTESSKFPFGIQQAKSHRNIKLEDEPRSRDETPLCT  
IAHWQDSLAKRCICVSNIVRSLSFVPGNDAEMSKHPGLVLILGKLILLHHEHPERKRAPQ  
TYEKEEDEDKGVACSKDEWWDCLEVLDRDNTLVTLANISGQLDLSAYTESICLPILDGLL  
HWMVCPSAEAQDPFPTVGPNSVLSPQRLVLETLCKLSIQDNNVDLILATPPFSRQEKFYA  
TLVRYVGDRKNPVCREMSMALLSNLAQGDALAAIAVQKGSIGNLISFLEDGVTMAQYQ  
QSQHNLMMHMQPPPLEPPSVDDMMCAAALLAMARVDENRSEFLLHEGRLLDISISAVLNS  
LVASVICDVLFQIGQL

>sp|Q8N4G2|ARL14\_HUMAN ADP-ribosylation factor-like protein 14 OS=Homo sapiens GN=ARL14  
PE=1 SV=2

MGSLGSKNPQTKQAQVLLLGLDSAGKSTLLYKLKLAKDITTIPTIGFNEMIELERNLSL  
TVWDVGGQEKMRVTWGCYCENTDGLVYVVDSTDQKRLSEESQRQFEHILKNEHIKNVPVVL  
LANKQDMPGALTAEDITRMFKVKKLCSDRNWYVQPCCALTGEGLAQGFRKLTGFVKSHMK  
SRGDTLAFFKQN

>sp|P40617|ARL4A\_HUMAN ADP-ribosylation factor-like protein 4A OS=Homo sapiens GN=ARL4A  
PE=1 SV=2

MGNGLSDQTSILSNLPSFSQSFHIVILGLDCAGKTTVLYRLQFNEFVNTVPTKGFNTEKIK  
VTLGNSKTVTFHFWDVGGQEKLRPLWKSYYTRCTDGIVFVVDSDVERMEEAKTELHKITR  
ISENQGVPLIVANKQDLRNSLSLSEIEKLLAMGELSSSTPWHLQPTCAIIGDGLKEGLE  
KLHDMIKRRKMLRQKKKKR

>sp|Q9H0F7|ARL6\_HUMAN ADP-ribosylation factor-like protein 6 OS=Homo sapiens GN=ARL6 PE=1  
SV=1

MGLLDRLSVLLGLKKKEVHVLCLGLDNSGKTTIINKLKPSNAQSQNILPTIGFSIEKFKS  
SSLSFTVFDMSGQGRYRNLWEHYKQGAIFVIDSDDLRLRMVVAKEELDTLLNHPDIKH  
RRIPILFFANKMDLRDAVTSVKVSQLLCLENIKDKPWHICASDAIKGEGLQEGVDWLQDQ  
IQT VKT

>sp|Q6NXE6|ARMC6\_HUMAN Armadillo repeat-containing protein 6 OS=Homo sapiens GN=ARMC6  
PE=1 SV=2

MSECCSRYSSGASIGCTPTSTQAKMVSRIAQETFDAAVRENIEEFAMGPPEAVKEAVE  
QFESQGVDSLNIKVTAPKVSADGSQEPHTDILQMLSDLQESVASSRPQEVSAYLTRFCDQ  
CKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSLNALSVLTDGQPDLLDAQGLQL  
LVATLTQNADEADLTCSGIRCVRHACKHEQNRQDLVKAGVLP LLTGAI THGHHTDVVR  
EACWALRVMTFDDDIRVPFGHAHNHAKMIVQENKGLKVLIEATKAFLDNPGILSELCGTL  
SRLAIRNEFCQEVVDLGGLSILVSLADCNDHQMRDQSGVQELVKQVLSLRAIAGNDDV  
KDAIVRAGGTESIVAAMTQHLTSPQVCEQSCAALCFLALRKPDNSRIIVEGGGAVAALQA  
MKAHPQKAGVQKQACMLIRNLVAHGQAFSKPILDLGAEALIMQARSAHRDCEDVAKAALR  
DLGCHVELRELWTGQRGNLAP

>sp|Q5H9R4|ARMX4\_HUMAN Armadillo repeat-containing X-linked protein 4 OS=Homo sapiens  
GN=ARMX4 PE=2 SV=2

MSAAGLKITGSKETKRRLLLISIDWSRDLNLCIYFRVYCQEKQEERRELPRIITGPPPE  
AAVVAFEWLKSTLTGLHPQLPLSLPQPECALPYLVRAFSRGDYMGRIVEGWVTAGLVI  
WAGTCYYIYKFTKGRAQSVRTLARNGSTVKMETVVGVQSQT LAINEAEIKTKPQVEIGAE  
TGARSGPRAEVETKATAIAIHRANSQAKAMVGAEPETQSESKVVAGTLVMTEAVTLTEVK  
AKAREVAMKEAVTQTDAEAGKIVKKEAVTQTKAKAWALVAKTEAKREAMTQTKAETHILA  
EKETEINRVMVTQSETLAVPREVAKMGATNKTGIVDETKTRALEETVLIPRAFPSKNASC

>sp|Q9NZ32|ARP10\_HUMAN Actin-related protein 10 OS=Homo sapiens GN=ACTR10 PE=1 SV=1

MPLYEGLSGGEKTAVVIDLGEAFTKCGFAGETGPRCIIPSVIKRAGMPKPVRRVQYNIN  
TEELYSYLKEFIHILYFRHLLVNPDRRVIIIESVLCPSHFRETLTRVLFKYFEVPSVLL  
APSHLMALLTLGINSAMVLDCGYRESLVLPYIEGIPVLNCWGALPLGGKALHKELETQLL  
EQCTVDTSVAKEQSLPSVMGSPVEGVLEDIKARTCFVSDLKRGLKIQAQFNIDGNNERP  
SPPPNVDYPLDGEKILHILGSIRDSVVEILFEQDNEEQSVATLILDSLIQCPIDTRKQLA  
ENLVVIGGTSMLPGFLHRLLAIEIRYLVEKPKYKALGKTFRHTPPAKANCVAWLGGA  
FGALQDILGSRVSKEYYNQTGRIPDWCSLNNPPEMMFDVGKTQPPLMKRAFSTEK

>sp|Q9Y575|ASB3\_HUMAN Ankyrin repeat and SOCS box protein 3 OS=Homo sapiens GN=ASB3 PE=1 SV=1

MDFTEAYADTCSTVGLAAREGNVKVLRKLLKKGRSVDVADNRGWMPIHEAAYHNSVECLQ  
MLINADSSSENYIKMTFEGFCALHLAASQGHWKIVQILLEAGADPNATTEETPLFLAV  
ENGQIDVLRLLLQHGAVNGSHSMCGWNSLHQASFQENAEIKLLLRKGANKECQDDFGI  
TPLFVAAQYGKLESLSILISSGANVNCQALDKATPLFIAAQEGHTKCVELLSSGADPDL  
YCNEDSWQLPIHAAQMGHTKILDLLIPLTNRACDTGLNKVSPVYSAVFGGHEDCLEILL  
RNGYSPDAQACLVFGFSSPVCMAFQKDCEFFGIVNILLKYGAQINELHLAYCLKYEKFSI  
FRYFLRKGCSLGPWNHIYEFVNHAIAKAQAKYKEWPHLLVAGFDPLILCNSWIDSVSID  
TLIFTLEFTNWKT LAPAVERMLSARASNAWILQQHIATVPSLTHLCRLEIRSSLKSERLR  
SDSYISQLPLPRSLHNYLLYEDVLRMYEVP ELAAIQDG

>sp|P15514|AREG\_HUMAN Amphiregulin OS=Homo sapiens GN=AREG PE=1 SV=2

MRAPLLPPAPVVL SLLILGSGHYAAGLDLNDTYSKGREPFGSDHSADGFVTSRSEMSSG  
SEISPVSEMPSSSEPSSGADYDYSEEYDNEPQIPGYIVDDSVRVEQVVKPPQNKTESENT  
SDKPKRKKKKGGKNGKNRRNRKKKNPCNAEFQNF CIHGECYIEHLEAVTCKCQQEYFGER  
CGEKSMKTHSMIDSSLSKIALAAIAAFMSAVILTAVAVITVQLRRQYVRKYEGEAEEERKK  
LRQENGNVHAIA

>sp|P18085|ARF4\_HUMAN ADP-ribosylation factor 4 OS=Homo sapiens GN=ARF4 PE=1 SV=3

MGLTISSLFSRLFGKKQMRILMVGLDAAGKTTILYKCLKGEIVTTIPTIGFNVETVEYKN  
ICFTVWDVGGQDRIRPLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDEL RDAV  
LLL FANKQDLPNAMAISEMTDKLGLQSLRNRTWYVQATCATQGTGLYEGLDWLSNELSKR

>sp|A5YM69|ARG35\_HUMAN Rho guanine nucleotide exchange factor 35 OS=Homo sapiens GN=ARHGEF35 PE=1 SV=1

MEAEAAQH GASPPISAIEEFSIIPEAPMRSSQVSALGLEAQEDEDPSYKWREEHRLSATQ  
QSELRDVC DYAIETMPSFPKEGSADVEPNQESLVAEACDTPEHWEAVPQSLAGRQARTLA  
PPELWACPIQSEHLDMA PFSSDLGSEEEVEFWPGLTSLTLGSGQAEEEEETSSDMSGQT  
RYYSPCEEHPAETNQNEGAESGTIRQGEELPSEELQESQGLLHPQEVQVLEEQQQEAGF  
RGEGLREDVCADGLLGEEQMIEQVNDEKGEQKQKQEQVDVMLGRQGERMGLTGEPEGL  
NDGEWEQEDMERKAQGGGPEQGEERKRELQVPEENRADSQDEKSQTF LGKSEEVTKQE  
DHGIKEKGVPSVSGQEAKEPESWDGGR LGAVGRARSREEENEHHGSPMPAL IAPEDSPHCD  
LFPGASYLVTQIPGTQTESRAEELSPAALSPLLEPIRCSHQPI SLLGSFLT EESPDKEKL  
LSVL

>sp|Q15052|ARHG6\_HUMAN Rho guanine nucleotide exchange factor 6 OS=Homo sapiens GN=ARHGEF6 PE=1 SV=2

MNPEEQI VTWLISLGVLESPKKTICDPEEF LKSSLKNGVVLCKLINRLMPGSVEKFCLDP  
QTEADCINNINDFLKGCATLQVEIFDPDDL YSGVNF SKVLSTLLAVNKATEDQLSERPCG

RSSSLAANTSQTNPQGAVSSTVSGLQRQSKTVENTENGSHQLIVKARFNFKQTNEDELS  
VCKGDIIVVTRVEEGWWEGTLNGRTGWFPSNYVREIKSSERPLSPKAVKGFETAPLTKN  
YYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTLTLC  
QALEECSKFPENQHKVGGCLLSLMPHFKSMYLAYCANHPSAVNVLTQHSDELEQFMENQG  
ASSPGILILTTNLSKPFMRLEKYVTLLQELERHMEDTHPDHQDILKAIVAFKTLMGQCQD  
LRKRKQLELQILSEPIQAWEGEDIKNLGNVIFMSQVMVQYGACEEKEERYLMLFSNVLIM  
LSASPRMSGFIYQGKIPIAGTVVTRLDEIEGNDCTFEITGNTVERIVVHCNNNQDFQEWL  
EQLNRLIRGPASCSLSKTSSSSCSAHSSFSSTGQPRGPLEPPQIIKPWSLSCLRPAPPL  
RPSAALGYKERMSYILKESSKSPKTMKKFLHKRKTERKPEEEYVIRKSTAALDEDAQIL  
KVIEAYCTSANFQQGHGSSTRKDSIPQVLLPEEEKLIIETRSNGQTIMEEKS�VDTVYA  
LKDEVRELKQENKRMKQCLEEELKSRDLEKLVRRLLKQTDECIRGESSSKTSILP

>sp|Q5VV41|ARHGG\_HUMAN Rho guanine nucleotide exchange factor 16 OS=Homo sapiens  
GN=ARHGEF16 PE=1 SV=1

MAQRHSDSSLEEKLLGHRFHSELRLDAGGNPASGLPMVRGSPRVRDDAAFQPQVPAPPQP  
RPPGHEEPWPIVLSTESPAALKLTQQLIPKSLAVASKAKTPARHQSFGAAVLSREAARR  
DPKLLPAPSFSLDDMDVDKDPGMLRRNLNQSYRAAMKGLGKPGGQGDALQLSPKLQAL  
AEEPSQPHTRSPAKNKKTLGRKRGHKGSFKDDPQLYQEIQERGLNTSQESDDDILDESSS  
PEGTQKVDATIVVKSYPQAVTWSQLPEVVELGILDQLSTEERKRQEAMFEILTSEFSYQ  
HSLILVEEFLQSKELRATVTQMEHHHLFSNILDVLGASQRFFEDLEQRHKAQVLVEDIS  
DILEEHAEKHFHPYIAYCSNEVYQRTLQKLISSNAAFREALREIERRPACGGLPMLSFL  
ILPMQVRTRLPLMDTLCLKTQGHSEYKAASRALKAISKLVRCNEGAHRMERMEQMYT  
LHTQLDFSQVKSPLISASRWLLKRGELFLVEETGLFRKIASRPTCYLFLFNDVLVVTCK  
KSEESYMVQDYAQMNIHQVEKIEPSELPLPGGGRSSSVPHFPQVTLLRNSEGRQEQLLL  
SSDSASDRARWIVALTHSERQWQGLSSKGDLPQVEITKAFFAKQADEVTLQQADVVLVLQ  
QEDGWLYGERLRDGETGWFPEDFARFITSRVAVEGNVRRMERLRVETDV

>sp|Q96DR7|ARHGQ\_HUMAN Rho guanine nucleotide exchange factor 26 OS=Homo sapiens  
GN=ARHGEF26 PE=1 SV=4

MDGESEVDFSSNSITPLWRRRSIPQPHQVLGRSKPRPQSYQSPNGLLITDFPVEDGGTLL  
AAQIPAQVPTASDRTVHRSPLLLGAQRRRAVANGGTASPEYRAASPRLRRPKSPKLPKAV  
PGGSPKSPANGAVTLPAAPPPPVLRPPRTPNAPAPCTPEEDLTGLTASPVPSPTANGLAA  
NNDSPGSGSQSGRKAKDPERGLFPGPQKSSSEQKLPLQRLPSQENELLENPSVVLSTNSP  
AALKVGKQQIIIPKSLASEIKISKSNQNVEPHKRLKVRSMVEGLGGPLGHAGEESEVDN  
DVDSPGSLRRGLRSTSYRRRAVSGFDSDPTSSKKKNRMSQPVLKVMEDKEKFSSLGRI  
KKKMLKGQGTDFDGEENAVLYQNYKEKALDIDSDEESEPKEQKSDEKIVIHKPLRSTWSQ  
LSAVKRKGLSQTVSQEERKRQEAI FEVISSEHSYLLSLEILRMFKNSKELSDTMTKTER  
HHLFSNITDVCEASKKFFIELEARHQNNIFIDDISDIVEKHTASTFDPYVKYCTNEVYQQ  
RTLQKLLATNPSFKEVLSRIESHEDCRNLPMSFLLPMQVRTRLPLMDTICQKTPKDS  
PKYEVCKRALKEVSKLVRLCNEGARKMERTEMMYTINSQLEFKIKPFPLVSSSRWLKRG  
ELTAYVEDTVLFSRRTSKQVYFFLFNDVLIITKKKSEESYNVNDYSLRDQLLVESCDNE  
ELNSSPGKNSSTMLYSRQSSASHLFTLTVLSNHANEKVEMLLGAETQSERARWITALGHS  
SGKPPADRTSLTQVEIVRSFTAKQPDELSLQVADVVLIIYQVSDGWYEGERLRDGERGWF  
PMECAKEITCQATIDKNVERMGRLLGLETNV

>sp|Q9NX46|ARHL2\_HUMAN Poly(ADP-ribose) glycohydrolase ARH3 OS=Homo sapiens GN=ADPRHL2  
PE=1 SV=1

MAAAAMAAAGGGAGAARSLSRFRGCLAGALLGDCVGSFYEAHDTVDLTSVLRHVQSLEP  
DPGTPGSETEALYYTDDTAMARALVQSLLAKEAFDEVDMAHRFAQEYKKDPDRGYGAGV  
VTVFKLLNPKCRDVFEPARAQFNGKGSYNGGAMRVAGISLAYSSVQDVQKFARLSAQL  
THASSLGYNGAILQALAVHLALQGESSEHFLKQLLGHMEDLEGDAQSVLDARELGMEER  
PYSSRLKKIGELLDQASVTREEVVSELGNGIAAFESVPTAIYCFLRCMEPDPEIPSAFNS  
LQRTLIIYSISLGGDTDTIATMAGAIAGAYYGMDQVPESWQQSCEGYEETDILAQSLHRVF  
QKS

>sp|Q5SW96|ARH\_HUMAN Low density lipoprotein receptor adapter protein 1 OS=Homo sapiens  
GN=LDLRAP1 PE=1 SV=3

MDALKSAGRALIRSPSLAKQSWGGRHRKLPENWTDRETLLLEGMLFSLKYLGMTLVEQ  
PKGEELSAAAIKRIVATAKASGKKLQKVTLKVSPRGIILTDNLTNQLIENVSIYRISYCT  
ADKMHDKVFAYIAQSQHNSLECHAFLCTKRKMAQAVTLTVAQAFKVAFEFWQVSKEEKE  
KRDKASQEGGDVLGARQDCTPSLSLVATGNLLDLEETAKAPLSTVSANTTNMDEVPRPQ  
ALSGSSVVWELDDGLDEAFSRLAQSRTNPQVLDTGLTAQDMHYAQLSPVDWDKPDSSGT  
EQDDLFSF

>sp|Q8NHP1|ARK74\_HUMAN Aflatoxin B1 aldehyde reductase member 4 OS=Homo sapiens GN=AKR7L  
PE=2 SV=6

MSRQLSRARPATVLGAMEMGRRMDAPTSAAVTRAFLERGHTEIDTAFLYSDGQSETILGG  
LGLRMGSSDCRVKIATKANPWIGNSLKPDSVRSQLETSKRLQCPUVDLFYLHAPDHSAP  
VEETLRACHQLHQEGKFVELGLSNYAWEVAEICTLCKSNGWILPTVYQGMYSATTRQVE  
TELPCLRHFGRLFYAYNPLAGLLTGKYKYEDKDQKQPVGRFFGTQWAEIYRNHFWKEH  
HFEGIALVEKALQAAYGASAPSM TSAALRWMYHHSQLQGAHGDAVILGMSSLEQLEQNLA  
AAEEGPLEPAVVDAFNQAWHLFAHECPNYFI

>sp|QOP5N6|ARL16\_HUMAN ADP-ribosylation factor-like protein 16 OS=Homo sapiens GN=ARL16  
PE=1 SV=1

MRVAGGRALSRGAELRVPGGAKHGMCLLLGATGVGKTLLVKRLQEVSSRDGKGDLEPPPP  
TRPTVGTNLTDIVAQRKITIRELGGCMGPIWSSYYGNCRSLLFVMDASDPTQLSASCVQL  
LGLLSAEQLAESVLILFNKIDLPCYMSTEEMKSLIRLPDIIACAKQNITTAEISAREGT  
GLAGVLAWLQATHRAND

>sp|P40616|ARL1\_HUMAN ADP-ribosylation factor-like protein 1 OS=Homo sapiens GN=ARL1 PE=1  
SV=1

MGGFFSSIFSSLFGTREMRILILGLDGAGKTTILYRLQVGEVVTTIPTIGFNVETVYKN  
LKFQVWDLGGQTSIRPYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAI  
LVVFANKQDMEQAMTSSEMANSGLPALKDRKWQIFKTSATKGTGLDEAMEWLVELKSR  
Q

>sp|P36405|ARL3\_HUMAN ADP-ribosylation factor-like protein 3 OS=Homo sapiens GN=ARL3 PE=1  
SV=2

MGLLSILRKLKSAPDQEVRIILLGLDNAGKTTLLKQLASEDISHITPTQGFNIKSVQSQG  
FKLNVDIGGQRKIRPYWKNYFENTDILIIYVIDSADRKRFEETGQELAELEEEELSCVP  
VLIFANKQDLLTAAPASEIAEGLNLHTIRDRVWQIQSCSALTGEGVQDGMNVWCKNVNAK  
KK

>sp|Q9Y689|ARL5A\_HUMAN ADP-ribosylation factor-like protein 5A OS=Homo sapiens GN=ARL5A  
PE=1 SV=1

MGILFTRIWRLFNHQEHKVIIVGLDNAGKTTILYQFSMNEVVHTSPTIGSNVEEIVINNT

RFLMWDIGGQESLRSSWNTYYTNTFEVIVVDSTDRERISVTREELYKMLAHEDLRKAGL  
LIFANKQDVKECMTVAEISQFLKLTSIKDHQWHIQACCALTGEGLCQGLEWMSRLKIR

>sp|A6NH57|ARL5C\_HUMAN Putative ADP-ribosylation factor-like protein 5C OS=Homo sapiens  
GN=ARL5C PE=3 SV=4

MGQLIAKLMSIFGNQEHTVIVGLDNEGKTTILYRFLTNEVVHMCPTIGSNVEEIIILPKT  
HFFMWDIRPEALSFIWNTYYSNTEFIIILVIDSTDRDRLLTTREELYKMLAHEALQDASV  
LIFANKQDVKDMSMRMVEISHFTLSTIKDHSWHIQGCCALTREGLPARLQWMESQAAAN

>sp|Q9NVJ2|ARL8B\_HUMAN ADP-ribosylation factor-like protein 8B OS=Homo sapiens GN=ARL8B  
PE=1 SV=1

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKV  
TKGNVTIKIWDIGGQPRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLDDKPQL  
QGIPVLVLGNKRDLPNALDEKQLIEKMNLSAIQDREICCYISCKEKNIDITLQWLIQH  
SKSRRS

>sp|Q9UBL0|ARP21\_HUMAN cAMP-regulated phosphoprotein 21 OS=Homo sapiens GN=ARPP21 PE=1  
SV=2

MSEQGDLNQAI AEEGGTEQETATPENGIVKSESLDEEEKLELQRRLEAQNQERRKSKSGA  
GKGKLTRSLAVCEESSARPGGESLQDQESIHLQLSSFSSSLQEEDKSRKDDSEREKEKDKN  
KDKTSEKPKIRMLSKDCSQEYTDSTGIDLHEFLINTLKNNSRDRMILLKMEQEIIDFIAD  
NNNHYYKFPQMSSYQRMLVHRVAAYFGLDHNVDQTGKSVIINKTSSTRIPEQRFCEHLKD  
EKGEESQKRFILKRDNSSIDKEDNQQRNMHPFRDDRRSKSIEEREEYQVRERIFAHDS  
VCSQESLFVENSRLLEDNICNETYKKRQLFRGNRDGSGRTSGSRQSSSENELKWSDHQR  
AWSSTDSDSSNRNLKPAMTKTASFGGITVLTRGDSTSSTRSTGKLSKAGSESSSSAGSSG  
SLSRTHPPLQSTPLVSGVAAGSPGCVYPENGIGGQVAPSSTSYILLPLEAATGIPPGSI  
LLNPHTGQPFVNPDPGTPAIYNPPTSQQPLRSAMVGQSQQQPPQQPSPQPQQQVQPPQPQ  
MAGPLVTQRDDVATQFGQMTLSRQSSGETPEPPSGPVYPSSLMPQPAQQPSYVIASTGQQ  
LPTGGFSGSGPPI SQVQLQPPSPQGFVQQPPPAQMPVYYPSGQYPTSTTQQYRMAPV  
QYNAQRSQQMPQAAQQAGYQPVLSGQQGFQGLIGVQQPPSQSNVINNQGTVPQSVMSY  
PTMSSYQVPMTQGSQGLPQQSYQQPIMLPNQAGQGSLPATGMPVYCNVTPPTPQNNLRLI  
GPHCPSSTVPVMSASCRTNCASMSNAGWQVKF

>sp|P61160|ARP2\_HUMAN Actin-related protein 2 OS=Homo sapiens GN=ACTR2 PE=1 SV=1

MDSQGRKVVVCDNGTGFVKCGYAGSNFPEHIFPALVGRPIIRSTTKVGNIEIKDLMVGDE  
ASELRSMLEVNYPMENGIVRNWDDMKHLWDYTFGPEKLNIDTRNCKILLTEPPMNPTKNR  
EKIVEVMFETYQFSGVYVAIQAVLTLYAQGLLTGVVVDSGDGVTHICPVYEGFSLPHLTR  
RLDIAGRDITRYLIKLLLLRGYAFNHSADFETVRMIKEKLCYVGYNIEQEQKLALETTVL  
VESYTLDPGRIIKVGGGERFEAPEALFQPHLINVEGVGVAELLFNTIQAADIDTRSEFYKH  
IVLSGGSTMYPGPLPSRLERELKQLYLERVLKGDVEKLSKFKIRIEDPPRRKHMVFLGGAV  
LADIMKDKDNFWMTRQEYQEKGVRVLEKLGVTVR

>sp|Q9COK3|ARP3C\_HUMAN Actin-related protein 3C OS=Homo sapiens GN=ACTR3C PE=2 SV=1

MFESFNVPGLYIAVQAVLALAASWTSRQVGERTLTGIVIDSGDGVTHVIPVAEGYVIGSC  
IKHIPIAGRDITYFIQQLLREREVGIPPEQSLETAKAIKEKYCYICPDIVKEFAKYDVP  
QKWIKQYTGINAINQKKFVIDVGYERFLGPEIFFHPEFANPDSMESISDVVDEVIQNCPI  
DVRRLPYKMEQIPLSYQGHGFHPLSPPFH

>sp|Q9BPX5|ARP5L\_HUMAN Actin-related protein 2/3 complex subunit 5-like protein OS=Homo  
sapiens GN=ARPC5L PE=1 SV=1

MARNTLSSRFRRVDIDFEDENKFVDEQEEAAAAAEPGDPDPSEVDGLLRQGDMMLRAFHAA  
LRNSPVNTKNQAVKERAQGVLKVLTNFKSSEIEQAVQSLDRNGVDLLMKYIYKGFKEKPT  
ENSSAVLLQWHEKALAVGGLGSIIRVLTARKTV

>sp|Q9NVP2|ASF1B\_HUMAN Histone chaperone ASF1B OS=Homo sapiens GN=ASF1B PE=1 SV=1  
MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSV  
LVGPVPAGRHMVFVQADAPNPSLIPETDAVGVTVVLTITCTYHGQEFIRVGYVNNNEYLNP  
ELRENPPMKPDFSQLQRNILLASNPRVTRFHINWDNNMDRLEAIETQDPSLGCGLPLNCTP  
IKGLGLPGCIPGLLPENSMDCI

>sp|Q9NR48|ASH1L\_HUMAN Histone-lysine N-methyltransferase ASH1L OS=Homo sapiens GN=ASH1L  
PE=1 SV=2

MDPRNTAMLGLGSDSEGFSRKSPSAISTGTLVSKREVELEKNTKEEEDLRKRNRRERNIEA  
GKDDGLTDAQQQFSVKETNFSEGNLKLKIGLQAKRTKKPPKNLENYVCRPAIKTTIKHPR  
KALKSGKMTDEKNEHCPSKRDPKLYKKADDVAAIECQSEEVIRLHSQGENNPLSKKLSP  
VHSEMADYINATPSTLLGSRDPLKDRALLNGGTSVTEKLAQLIATCPPSKSSKTKPKKL  
GTGTTAGLVSKDLIRKAGVGSVAGIIHKDLIKKPTISTAVGLVTKDPGKKPVFNAAVGLV  
NKDSVKKLGTGTTAVFINKNLGKKPGTITTVGLLSKDSGKKLGIGIVPGLVHKESGKKLG  
LGTVVGVLNVDLGGKLGSTVGLVAKDCAKKIVASSAMGLVNKDIGKKLMSCLAGLISKD  
AINLKAEALLPTQEPLKASCSTNINNQESQELSESLKDSATSKTFEKNVVRQNKESILEK  
FSVRKEIINLEKEMFNEGTCIQQDSFSSSEKGSYETSKHEKQPPVYCTSPDFKMGGASDV  
STAKSPFSAVGESNLPSPSPTVSVNPLTRSPPETSSQLAPNPLLSSTTELIEEISESVG  
KNQFTSESTHLNVGHRSVGHSISIECKGIDKEVNDSTTHIDIPRISSSLGKKPSLTSES  
SIHTITPSVVNFTSLFSNKPFLKLGAVSASDKHCQVAESLSTSLQSKPLKKRKGKPRWT  
KVVARSTCRSPKGLELERSELFKNVSCSSLSNSNPAKFMKNIGPPSFVDHDFLKRRLP  
KLSKSTAPSLALLADSEKPSHKSFATHKLSSSMCVSSDLSDIYKPKRGRPKSKEMPQLE  
GPPKRTLKIPASKVFSLSQKEEQEPPILQPEIEIPSFQGLSVSPFPKKRGRPKRQMRSP  
VKMKPPVLSVAPFVATESPSKLESESDNHRSSSDFESEDQLQDPPDLDSDHRPSVCSMS  
DLEMEPDKKITKRNNQLMKTIIRKINKMKTLLKRLNQLSSSVESNKGKVQSKLHN  
TVSSLAATFGSKLGQINVSCKGTIYIGKRRGRPKTVLNGILSGSPTSLAVLEQTAQQA  
AGSALGQILPPLPSSASSEILPSPICSSSGTSGGQSPVSSDAGFVEPSSVPYLHLHS  
RQGSMIQTLAMKKASKGRRRLSPPTLLPNPSHLSELTSLEATPSPISESHSDETIPSD  
SGIGTDNNSTSDRAEKFCGQKKRRHSFEHVSLIPPETSTVLSSLKEKHKKCKRRNHDYL  
SYDKMKRQKRKKKKYPQLRNRQDPDFIAELEELISRLSEIRITHRSHHFIPRDLLPTIF  
RINFNSFYTHPSFPLDPLHYIRKPDLLKKRGRPPKMRMAEMPFMHLSFPLSSTGFYP  
SYGMPYSPSPLTAAPIGLGYGYRYPPTLYPPPPSPSFTTLPPLPSYMHAGHLLNPAKYH  
KKKHKLRLQEAFLTSRTPLLSMSTYPSVPPPEMAYGWMVEHKHRRHKKHREHSSEQPQV  
SMDTGSSRSVLESKRYRFKDAVGERYKHKEKHRCHMSCPHLSPSKSLINREEQWVHRE  
PSESSPLALGLQTPQLIDCESSPSLSLGGFTPNSEPASSDEHTNLFSAIGSCRVSNNP  
SSGRKKLTDSPGLFSAQDTSLNRLHRKESLPSNERAVQTLAQSDKPSQRPSESTNC  
SPTRKRSSSESTSVNGVPSRSPRLVASGDDSVDSLLQRMVQNEQEPMEKSIDAVIAT  
ASAPSSSPGRSHSKDRTLGKPDLLVPAVTSDCNNSISLLSEKLTSSCSPHHIKRSVV  
EAMQRQARKMCNYDKILATKKNLDHVNKILKAKKLQRQARTGNNFVKRRPGRPRKCPLQA  
VVSMQAFQAAQFVNPELNREDEGAALHLSPTDVTVDVIEAVVQSVNLNPEHKKGLKRKGWL  
LEEQTRKKQKPLPEEEEEQENNSFNEAPVEIPSPSETPAKPSEPESTLQPVLSLIPREKK  
PPRPPKKKYQKAGLYSDVYKTTDPKSRLIQLKKEKLEYTPGEHEYGLFPAPIHVVFVSG



KYLRQKRIDFQLPYDILWQWKHNQLYKKPDVPLYKKIRSNVYVDVKPLSGYEATTCNCKK  
PDDDRKGCVDCLNRMIFAECSPNTCPCGEQCCNQRIQRHEWVQCLERFRAEEKGWGIR  
TKEPLKAGQFIIEYLGEVVSEQEFNRNMIQYHNHSDHYCLNLDSGMVIDSYRMGNEARF  
INHSCDPNCEMQKWSVNGVYRIGLYALKDMPAGTELTYDYNFHSFNVEKQQLCKCGFEKC  
RGIIGGKSQRVNGLTSSKNSQPMATHKKSGRSKEKRKSKHKLKRRGHLSEEPSININTP  
TRLTPQLQMKPMSNRERNFVLKHHVFLVRNWEKIRQKQEEVKHTSDNIHSASLYTRWNGI  
CRDDGNIKSDVMTQFSALQTARSVRTRRLAAAEENIEVARAARLAQIFKEICDGIISYK  
DSSRQALAAPLLNLPKKKNADYYEKISDPLDLITIEKQILTGYKTVFAFDADMLKVFR  
NAEKYYGRKSPVGRDVCRLRKAYYNARHEASAQIDEIVGETASEADSSETSVSEKENGHE  
KDDDVIRCICGLYKDEGLMIQCDKCMVWQHCDMGMVNSDVEHYLCEQCDPRPVDREVPMI  
PRPHYAQPGCVYFICLLRDDLLRQGDCVYLMRDSRRTPDGHPVRQSYRLLSHINRDKLD  
IFRIEKLWKNEKEERFAFGHHYFRPHETHHSPSRRFYHNELFRVPLYEIIIPLEAVGTCC  
VLDLYTYCKGRPKGVEQDVYICDYRLDKSAHLFYKIHRNRYPVCTKPYAFDHFPPKLT  
KKDFSPHYVPDNYKRNGRSSWKSERSKPPLKDLGQEDDALPLIEEVLASQEQAAANEIPS  
LEEPEREGATANVSEGEKKTEESSQEPQSTCTPEERRHNQERLNLQILLNLEKIPGKNA  
IDVTYLLEEGSGRKLRRRTLFIPENSFRK

>sp|P17405|ASM\_HUMAN Sphingomyelin phosphodiesterase OS=Homo sapiens GN=SMPD1 PE=1 SV=4

MPRYGASLRQSCPRSGREQQDGTAGAPGLLWMGLVLALALALALALSDSRVLWAPAEAH  
PLSPQGHPARLHRIVPRLRDVFGWGNLTCPICKGLFTAINLGLKKEPNVARVGSVAIKLC  
NLLKIAPPAVCQSIHVLFEEDMVEVWRRSVLSPSEACGLLLGSTCGHWDIFSSWNISLPT  
VPKPPPKPPSPAPGAPVSRIFLTDLHWDHDYLEGTDPCADPLCCRRGSGLPASRPG  
AGYWGEYSKCDLPLRTLESLLSGLGPAGPFDMVYWTGDIPAHDVWHQTRQDQLRALTTVT  
ALVRKFLGPVPVYPAVGNHSTPVNSFPPPIEGNHSSRWLYEAMAKAWEPWLPALRT  
LRIGGFYALSPYPGLRLISLNMNFCSRENFWLLINSTDPAGQLQWLVGELQAAEDRGDKV  
HIIIGHIPPGHCLKSWSWNYRIVARYENTLAAQFFGHTHVDEFEVFYDEETLSRPLAVAF  
LAPSATTYIGLNPGRVYQIDGNYSGSSHVLDHETYILNLTQANIPGAIPHWQLLYRAR  
ETYGLPNTLPTAWHNLVYRMRGDMQLFQTFWFLYHKGHPPEPCGTPCRLATLCAQLSAR  
ADSPALCRHLMPDGSLPEAQSLWPRPLFC

>sp|P20933|ASPG\_HUMAN N(4)-(beta-N-acetylglucosaminyl)-L-asparaginase OS=Homo sapiens  
GN=AGA PE=1 SV=2

MARKSNLPVLLVPFLLCQALVRCSSPLPLVVNTWPFKNATEAAWRALASGGSALDAVESG  
CAMCEREQCDGSGVGGSPDELGETTLDAMIMDGTMDVGAVGDLRRIKNAIGVARKVLE  
HTHTLLVGESATTFAQSMGFINEDLSTTASQALHSDWLARNCPNYWRNVIPDPSKYCG  
PYKPPGILKQDIPIHKETEDDRGHDTIGMVVIHKTGHIAAGTSTNGIKFKIHGRVGDSP  
PGAGAYADDTAGAAAATGNGDILMRFLPSYQAVEYMRRGEDPTIACQKVISRIQKHFPEF  
FGAVICANVTGSYGAACNKLSTFTQFSFMVYNSEKNQPTEEKVDCI

>sp|O75110|ATP9A\_HUMAN Probable phospholipid-transporting ATPase IIA OS=Homo sapiens  
GN=ATP9A PE=1 SV=3

MTDNIPLQPVRQKKRMSRPRAGCCEWLRCGGGEARPTVWLGHPEKRDQRYPRNVINN  
QKYNFFTFLPGVLNFQFKYFFNLYFLLLACSQFVPEMRLGALYTYWVPLGFVLAVTVIRE  
AVEEIRCYYRDKVNSQVYSRLTARGTVKVKSSNIQVGDLIIVEKNQRPADMIFLRTSE  
KNGSCFLRTDQLDGETDWKLRPLVACTQRLPTAADLLQIRSYVYAEENIDIHNFVGTFT  
RESDPPISESLSIENTLWAGTVVASGTVVGVVLYTGRELRSVMNTSNPRSKIGLFDLEV  
NCLTKILFGALVVVSLVMVALQHFAGRWYLQIRFLLLSNIIPISLRVNLDMGKIVYSW

VIRDSKIPGTVVRSSTIPEQLGRISYLLTDKTGTLTQNEMIFKRLHLGTVAYGLDSMDE  
VQSHIFSITYTQSQDPPAQKGPTLTTKVVRTMSSRVHEAVKAIALCHNVTPVYESNGVTD  
QAEAEKQYEDSCRVIYQASSPDEVALVQWTESVGLTLVGRDQSSMQLRTPGDQILNFTILQ  
IFPFTYESKRMGIIVRDESTGEITFYMKGADVVMAGIVQYNDWLEEECGNMAREGLRVLV  
VAKKSLAEEQYQDFEARYVQAKLSVHDSRLKVATVIESLEMEMELLCLTGVEDQLQADV  
PTLETLRNAGIKVWMLTGDKLETATCTAKNAHLVTRNQDIHVFRVTNRGEAHLELNAFR  
RKHDICALVISGDSLEVCLKYYEYEFMELACQCPAVVCCRCAPTQKAQIVRLLQERTGKLT  
CAVGDDGNDVSMIQESDCGVGVEGKEGKQASLAADFSITQFKHLGRLLMVHGRNSYKRSA  
ALSQFVIHRSLCISTMQAVFSSVFYFASVPLYQGFLIIGYSTIYTMFPVFSVLVDKDVKS  
EVAMLYPELYKDLLKGRPLSYKTFLIWVLISYQGSTIMYGALLFESEFVHIVAISFTS  
LILTELLMVALTIQTHWMLTVAELLSLACYIASLVFLHEFIDVYFIATLSFLWKVSVIT  
LVSCPLPLYVLKYLRRRFSPPSYSKLT

>sp|P25705|ATPA\_HUMAN ATP synthase subunit alpha, mitochondrial OS=Homo sapiens GN=ATP5A1  
PE=1 SV=1

MLSVRVAAAVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEERIL  
GADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVF  
NDKLIKEGDIVKRTGAIVDPVPGEELLGRVVDALGNAIDGKGPISKTRRRVGLKAPGII  
PRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTGKTSIAIDTIIINQKRFNDGSDEKK  
KLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYF  
RDNGKHALIIYDDLKQAVAYRQMSLLRRPPGREAYPGDVFYLSRLLERAAKMNDAFG  
GGSLTALPVIETQAGDVSAIYPTNVISITDGGIFLETIFYKGIKIRPAINVGLSVSRVGS  
AQTRAMKQVAGTMKLELAQYREVAFAAQFGSDLAATQQLSRGVRLTELLKQGQYSPMA  
IEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHQALLGTIRADGKISEQSDAKL  
KEIVTNFLAGFEA

>sp|Q8N5M1|ATPF2\_HUMAN ATP synthase mitochondrial F1 complex assembly factor 2 OS=Homo  
sapiens GN=ATPAF2 PE=1 SV=1

MWRSLRLRDGGRLLNRPAGGPSASMSPGPTIPSPARAYAPPTERKRFYQNVSITQEGE  
GFEINLDHRKLKTPQAKLFTVPSEALAIATAEWDSQQDTIKYYTMHLTTLCNTSLDNPT  
QRNKDQLIRAAVKFLDTDITCYRVEEPETLVELQRNEWDPIIEWAEKRYGVEISSSTSIM  
GPSIPAKTREVLSHLASYNTWALQGIEFVAAQLKSMVLTGLIDLRLTVEQAVLLSRLE  
EEYQIQKWGNIEWAHYDELQELRARTAAGTLFIHLCESTTVKHKLLKE

>sp|Q7Z4Y8|AT5L2\_HUMAN ATP synthase subunit g 2, mitochondrial OS=Homo sapiens GN=ATP5L2  
PE=5 SV=1

MAPFVRNLVEKTPALVNAAVTYLPRLAAFYWTVELVPPTPAEIPRAIQSLKKIVSSA  
QTGSFKQLTVKEALLNGLVATEVSTWFYVREITGKRGII

>sp|Q9Y2Q0|AT8A1\_HUMAN Phospholipid-transporting ATPase IA OS=Homo sapiens GN=ATP8A1 PE=1  
SV=1

MPTMRRTVSEIRSRAEGYEKTDVSEKTSADQEEVRTIFINQPQLTKFCNNHVSTAKYN  
IITFLPRFLYSQFRRAANSFFLFIALLQQIPDVSPGTGRYTTLVPLLFILAVAAIKEIIE  
IKRHKADNAVNNKQTQVLRNGAWEIVHWEKVAVGEIVKVTNGEHLADLISLSSEPQAM  
CYIETSNLDGETNLKIRQGLPATSDIKDVDSLMRISGRIECESPNRHLYDFVGNIRLDGH  
GTVPLGADQILLRGAQLRNTQVWHGIVVYTGHDTKLMQNSTSPPLKLSNVERITNVQILI  
LFCILIAMSLVCSVGSATWNRHSGKDWYLNLYGGASNFGNLTFTIILFNNLIPISLL  
VTLEVVKFTQAYFINWDLDMHYEPTDTAAMARTSNLNEELGQVKYIFSDKTGTLTCNVMQ

FKKCTIAGVAYGHVPEPEDYGCSPDEWQNSQFGDEKTFSDSSLENLQNNHPTAPIICEF  
LTMMAVCHTAVPEREGDKIIYQAASPDEGALVRAAKQLNFVFTGRTPDSVIIDSLGQEER  
YELNLVLEFTSARKRMSVIVRTPSGKLRLYCKGADTVIYDRLAETSKYKEITLKHLEQFA  
TEGLRTLCAFAVAEISESDFQEWRAVYQRASTSVQNRLKLEESYELIEKNLQLLGATAIE  
DKLQDQVPETIETLMKADIKIWILTGDKQETAINIGHSCKLLKKNMGMIVINEGSLDGTR  
ETLSRHCTTLGDALRKENDFALIIDGKTLKYALTFGVRQYFLDLALSCKAVICCRVSPLQ  
KSEVVMVKKQVKVVTLAIGDGANDVSMIQTAVGVGISGNEGLQAANSSDYSIAQFKYL  
KNLLMIHGAWNNRVSKCILYCFYKNIVLYIIETWFAFVNGFSGQILFERWCIGLYNVMF  
TAMPPLTLGIFERSCKENMLKYPELYKTSQNALDFNTKVFVWHCLNGLFHSVILFWFPL  
KALQYGTAFNGKTSDYLLGNFVYTFVVITVCLKAGLETSYWTWFSHIAIWGSIALWV  
FFGIYSSLWPAIPMAPDMSGEAAMLFSSGVFWMGLLFIPVASLLLDVVYKVIKRTAFKTL  
VDEVQELEAKSQDPGAVVLGKSLTERAQLLKNVFKKNHVNLYRSESLQQNLLHGYAFSQD  
ENGIVSQSEVIRAYDTTKRPDEW

>sp|Q8NBU5|ATAD1\_HUMAN ATPase family AAA domain-containing protein 1 OS=Homo sapiens  
GN=ATAD1 PE=1 SV=1

MVHAEAFSRPLSRNEVVGLIFRLTIFGAVTYFTIKWMVDAIDPTRKQKVEAQKQAEKLMK  
QIGVKNVKLSEYEMSIAAHLVDPLNMHVTSWDIAGLDDVITDLKDTVILPIKKKHLFENS  
RLLQPPKGVLLYGPPGCGKTLIAKATAKEAGCRFINLQPSTLTDKWYGESQKLAAAVFSL  
AIKLQPSIIFIDEIDSFLNRNRSSDHEATAMMKAQFMSLWDGLDTHSCQVIVMGATNRP  
QDLDSAIMRRMPTRFHINQPAKQREAILKLILKNENVDRHVDLLEVAQETDGFSGSDLK  
EMCRDAALLCVREYVNSTSEESHDEDEIRPVQQDLHRAIEKMKKSKDAAFQNVLTHVCL  
D

>sp|P18847|ATF3\_HUMAN Cyclic AMP-dependent transcription factor ATF-3 OS=Homo sapiens  
GN=ATF3 PE=1 SV=2

MMLQHPGQVSASEVSASAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSS  
ALESVTVSDRPLGVSIKAEVAPEEDERKKRRRERNKIAAAKCRNKKKEKTECLQKESEK  
LESVNAELKAQIEELKNEKQHLYMLNLHRPTCIVRAQNGRTPEDERNLFIQQIKEGTLQ  
S

>sp|Q9Y2D1|ATF5\_HUMAN Cyclic AMP-dependent transcription factor ATF-5 OS=Homo sapiens  
GN=ATF5 PE=1 SV=4

MSLLATLGLELDRAALLPASGLGWLVDYGKLPPAPAPLAPYEVLGGALEGGLPVGGEPLAG  
DGFSDWMTERVDFTALLPLEPLPPGTLPQPSPTPPDLEAMASLLKKELEQMEDFFLDAP  
PLPPSPPPPLPPPLPPAPSLPLSLPSFDLPQPPVLDLTLAIYCRNEAGQEEVGMPPPL  
PPPQQPPPPSPPPSRLAPYPHPATTRGDRKQKKRDQNKSAALRYRQRKRAEGEAGEGEC  
QGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQRTRSC

>sp|P18850|ATF6A\_HUMAN Cyclic AMP-dependent transcription factor ATF-6 alpha OS=Homo sapiens  
GN=ATF6 PE=1 SV=3

MGEPAVAGTMESPFSPGLFHRLEDEDWSALFAELGYFTDTDELQLEAANETYENNFDNL  
DFDLDLMPWESDIWDINNQICTVKDIKAEPQPLSPASSYSVSSPRSVDSYSSTQHVP  
LDLSSSSQMSPLSLYGENSNSLSAEPLKEDKPVTPGRNKTENGLTPKKKIQVNSKPSIQ  
PKPLLLPAAPKTQTNSSVPAKTIIITQVPTLMPLAKQPIIISLQAPATKGQTVLLSQPTV  
VQLQAPGVLP  
SAQPVAVAGGVTQLPNHVVNVVPAPSANS  
PVNGKLSVTKPVLQSTMRNV  
GSDIAVLRQRQRM  
IKNRESACQSRKKKKEYMLGLEARLKAALSENEQLKKENGTLKRQLD  
EVVSENQRLKVPSPKRRVVCVMI  
VLAFIILNYGPM  
SMLEQDSRRMNPSVSPANQRRHLLG

FSAKEAQDTS DGI IQKNSYRYDHSVSN DKALMVL TEEPLLYIPPPPCQPLINTTESLR LN  
HELRGVVRHEVERTKSRMTNNQKTRILQGALEQGSNSQLMAVQYTETTSSISRNSGS  
ELQVYYASPRSYQDFFFAIRRRGDTFYVVSFRRDHLLLPATTHNKTRPKMSIVLPAINI  
NENVINGQDYEVMMQIDCQVMDTRILHIKSSSVPPYLRDQQRNQTNTFFGSPPAATEATH  
VVSTIPESLQ

>sp|Q96DT6|ATG4C\_HUMAN Cysteine protease ATG4C OS=Homo sapiens GN=ATG4C PE=1 SV=1

MEATGTDEVDKLT KFI SAWNNMKYSWVLKTKTYFSRNSPVLLL GKCYHFKYEDEDKTLP  
AESGCTIEDHVIAGNVEEFRKDFISRIWLTYREEFPQIEGSALTTDCGWGCTLR TGQMLL  
AQGLILHFLGRAWTWPDALNIENS DSESWTSHTVKFTASFEASLSGEREFKTPTISLKE  
TIGKYSDDHEMRNEVYHRKII SWFGDSPLALFGLHQLIEYGKKS GKKAGDWYGPVVAHI  
LRKAVEEARHPDLQGITIYVAQDCTVYNSDVIDKQSASMTSDNADDAV IILVPVRLGGE  
RTNTDYLEFVKGILSLEYCVGIIGGKPKQSYFAGFQDDSLIYMDPHYCQSFVDVSIKDF  
PLETFHCPSPKKMSFRKMDPSC TIGFYCRNVQDFKRASEEITKMLKFSSKEKYPLFTFVN  
GHSRDYDFTSTTTNEEDL FSEDEKKQLKRFSTEEFVLL

>sp|O95352|ATG7\_HUMAN Ubiquitin-like modifier-activating enzyme ATG7 OS=Homo sapiens  
GN=ATG7 PE=1 SV=1

MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLP  
ARLTLEFSAFDMSAPTPARCCPAIGTLYNTNTLESFKTADKKLLEQAANEIWESIKSGT  
ALENPVLLNKFLLLT FADLKKYHFYYWFCYPALCLPESLPLIQGPVGLDQRFSLKQIEAL  
ECAYDNL CQTEGVTALPYFLIKYDENMVLVSL LKHYSDFFGQRTKITIGVYDPCNLAQY  
PGWPLRNFLVLAHRWSSSFQSV EVVCFRDRTMQGARDVAHSIIFEVKLP EMAFSPDCPK  
AVGWEKNQKGGMGRMVNLSECM DPKRLAESSVDLNLKMCWRLVPTLDLDKVVSVKCLL  
LGAGTLGCNVARTLMGWVRHITFVDNAKISYSNPVRQPLYEFEDCLGGGKPKALAAADR  
LQKIFPGVNARGFNMSIPMPGHPVNFSSVTLEQARRDVEQLEQLIESHDVVFLMDTRES  
RWLPAVIAASKRKLVINAA LGFDTFVVMRHGLKKPKQQGAGDLCPNHPVASADLLGSSLF  
ANIPGYKLG CYFCNDVVAPGDSTRDRTL DQCTVSRPGLAVIAGALAVELMVSVLQHPEG  
GYAIASSSDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSSKVLDQYERE  
GFNFLAKVFNSSHSFLEDLTGLTLLHQETQAAEIWDMSDDETI

>sp|Q674R7|ATG9B\_HUMAN Autophagy-related protein 9B OS=Homo sapiens GN=ATG9B PE=2 SV=1

MVSRMGWGRRRRRLGRWGLPGSVPLLPMLPPPPPPSCRGPGGGRISIFSLSPAPHTR  
SSPSSFSPTAGPPCSVLQGTGASQSCHSALPIPATPPTQAQPAMTPASASPSWGSHSTP  
PLAPATPTPSQQCPQDSPGLRVGPLIPEQDYERLEDCDPEGSQDSPIHGEEQQPLLHVPE  
GLRGSWHHIQNLDSFFTKIYSYHQ RNGFACILLEDFVQLGQFIFIVTFTTFLRCVDYNV  
LFANQPSNHTRPGPFH SKVTLS DAILPSAQCAERIRSSPLLVL LVLAAAGFWLVQLLSV  
CNLFSYWDIQVFYREALHIPPEELSSVPWAEVQSRL LALQRSGGLCVQPRPLTELDIHHR  
ILRYTNYQVALANKGLLPARCPLPWGSA AFLSRGLALNVDLLLFRGPFSLFRGGWELPH  
AYKRSDQRGALAA RWGRTVLLAALNLALSPLVLAWQVLHV FYSHVELLRREP GALGARG  
WSRLARLQLRHFNELPHELRLARAYRPAA AFLRTAAPPAPLRTLLARQLVFFAGALFA  
ALLVLTVYDEDVLAVEHVL TALTALGVTATVARSFIP EEQCQGRAPQLLLQTALAHMHYL  
PEEPGPGRDRAYRQMAQLLQYRAVS LLELLSPLLTPLFLLFWFRPRALEIIDFFHHFT  
VDVAGVDICSFALMDVKRHGHPQWLSAGQTEASLSQRAEDGKTELSLMRFS LAHPLWRP  
PGHSSKFLGHLWGRVQQDAAAWGATSARGPSTPGVLSNCTSPLEAFLANLFVHPLLPPR  
DLSPTAPCPAAATASLLASIRIAQDPSSVSPGGTGGQKLAQLPELASAEMSLHVIY LHQ  
LHQQQQQQEPWGEAAASILSRPCSSPSQPPSPDEEKPSWSSDGSSPASSPRQQWGTQKAR

NLFPGGFQVTTDTQKEPDRASCTD

>sp|Q8N100|ATOH7\_HUMAN Protein atonal homolog 7 OS=Homo sapiens GN=ATOH7 PE=1 SV=1

MKSCCKPSGPPAGARVAPPCAGGTECAGTCAGAGRLESAARRRLAANARERRRMQGLNTAF  
DRLRRVVPQWQDKKLSKYETLQMALSYIMALTRILAEAEERFGSERDWWGLHCEHFGRDH  
YLPFGAKLPGESELYSQRLFGFQPEPFQMAT

>sp|P51164|ATP4B\_HUMAN Potassium-transporting ATPase subunit beta OS=Homo sapiens  
GN=ATP4B PE=1 SV=1

MAALQEKKTCGQRMEEFQRYCWNPDGQMLGRTLRSRWWISLYYVAFYVVMTGFLALCLY  
VLMQTVDPYTPDYQDQLRSPGVTLRPDVYGEKGLEIVYNVSDNRTWADLTQTLHAFLAGY  
SPAQAQEDSINCTSEQYFFQESFRAPNHTKFSCKFTADMLQNCGLADPNFGFEEGKPCFI  
IKMNRIVKFLPSNGSAPRVDCAFLDQPRELGQPLQVKYPPNGTFSLHYFPYYGKKAQPH  
YSNPLVAAKLLNIPRNAEVAIVCKVMAEHVTFNNPHDPYEGKVEFKLKIEK

>sp|Q86WX3|AROS\_HUMAN Active regulator of SIRT1 OS=Homo sapiens GN=RPS19BP1 PE=1 SV=1

MSAALLRRGLELLAASEAPRDPGQAKPRGAPVKRPRKTKAIQAQKLNSAKGKVPKSAL  
DEYRKRECRDHLRVNLKFLTRTRSTVAESVSQQILRQNRGRKACDRPVAKTKKKKAEGTV  
FTEEDFQKFQQEYFGS

>sp|Q9P1U1|ARP3B\_HUMAN Actin-related protein 3B OS=Homo sapiens GN=ACTR3B PE=2 SV=1

MAGSLPPCVVDCGTGYTKLGYAGNTEPQFIIPSCIAIRESAKVVDQAQRRVLRGVDDLDF  
FIGDEAIDKPTYATKWPIRHGIIEDWDLMERFMEQVVFYKYLRAEPEDHYFLMTEPPLNTP  
ENREYLAEIMFESFNVPGLYIAVQAVLALAASWTSRQVGERTLTGIVIDSGDGVTHVIPV  
AEGYVIGSCIKHIPIAGRDITYFIQQLLREREVGIPPEQSLETAKAIKEKYCYICPDIVK  
EFAKYDVPDKWIKQYTGINAINQKKFVIDVGYERFLGPEIFFHPEFANPDFMESISDVV  
DEVIQNCPIDVRRPLYKNVLSGGSTMFRDFGRRLQRDLKRVVDARLRLSEELSGGRIKP  
KPVEVQVVTHMQRYAVWFGGSMLASTPEFFQVCHTKKDYEEYGPSICRHNPFVFGVMS

>sp|P61158|ARP3\_HUMAN Actin-related protein 3 OS=Homo sapiens GN=ACTR3 PE=1 SV=3

MAGRLPACVVDCGTGYTKLGYAGNTEPQFIIPSCIAIKESAKVGDQAQRRVMKGVDDLDF  
FIGDEAIEKPTYATKWPIRHGIVEDWDLMERFMEQVIFKYLRAEPEDHYFLLTEPPLNTP  
ENREYTAEIMFESFNVPGLYIAVQAVLALAASWTSRQVGERTLTGTVIDSGDGVTHVIPV  
AEGYVIGSCIKHIPIAGRDITYFIQQLLRDREVGPPEQSLETAKAVKERYSYVCPDLVK  
EFNKYDTDGSKWIKQYTGINAIKKKEFSIDVGYERFLGPEIFFHPEFANPDFMQPISEVV  
DEVIQNCPIDVRRPLYKNIVLSGGSTMFRDFGRRLQRDLKRTVDARLKLSEELSGGRLKP  
KPIDVQVITHMQRYAVWFGGSMLASTPEFYQVCHTKKDYEEIGPSICRHNPFVFGVMS

>sp|P59998|ARPC4\_HUMAN Actin-related protein 2/3 complex subunit 4 OS=Homo sapiens  
GN=ARPC4 PE=1 SV=3

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPVTISRNEKEK  
VLIEGSINSVRVSIQVKADEIEKILCHKFMRFMMAENFFILRRKPVEGYDISFLITN  
FHTEQMYKHKLVDFVIFMEEIDKEISEMKLSVNARARIVAEFLKNF

>sp|O15511|ARPC5\_HUMAN Actin-related protein 2/3 complex subunit 5 OS=Homo sapiens  
GN=ARPC5 PE=1 SV=3

MSKNTVSSARFRKVDVDEYDENKFVDEEDGGDGQAGPDEGEVDSCLRQGNMTAALQAALK  
NPPINTKSQAVKDRAGSIVLKVLSFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDN  
SSAMLLQWHEKALAAGGVGSIVRVLTARKTV

>sp|P10523|ARRS\_HUMAN S-arrestin OS=Homo sapiens GN=SAG PE=1 SV=3

MAASGKTSKSEPNHIFKKISRDKSVTIYLGNRDYIDHVSQVQPVDPDGLVKGKK

VYVTLTCAFRYGQEDIDVIGLTFRRDLYFSRVQVYPPVGAASTPTKLQESLLKKLGSNTY  
PFLLTFPDYLPCSVMLQPAPQDSGKSCGVDFEVKAFATDSTDAEEDKIPKKSSVRLLRK  
VQHAPLEMGPQPRAEAAWQFFMSDKPLHLAVSLNKEIYFHGEPIPVTVTVTNTEKTVKK  
IKAFVEQVANVLYSSDYVVKPVAMEEAQEKVPPNSTLTKTLTLLPLLANNRERRGIALD  
GKIKHEDTNLASSTIIKEGIDRTVLGILVSYQIKVKLTVSGFLGELTSSEVATEVPFRLM  
HPQPEDPAKESYQDANLVFEFARHNLKDAGEAEEGKRDKNDVDE

>sp|P54793|ARSF\_HUMAN Arylsulfatase F OS=Homo sapiens GN=ARSF PE=1 SV=4

MRPRRPLVFMISLVCALLNTCAHRVHDDKPNIVLIMVDDLGI GDLGCYGNMTMRTPHIDR  
LAREGVRLTQHISAASLCSPSRSAFLTGRYPISRGMVSSGNRRVIQNLAVPAGLPLNETT  
LAALLKKQGYSTGLIGKWHQGLNCDRSRSDQCHHPYNYGFDYGYGMPFTLVDSWPDPSRN  
TEAFESQLWLVCQLVAIAILTLTFGKLSGWVSPWLLIFSMILFIFLLGYAWFSSHTSP  
LYWDCLLMRGHEITEQPMKAERAGSIMVKEAISFLERHSHKETFLFFSFLHVHTPLPTD  
DFTGTSKHGLYGDNVEEMDSMVGKILDAIDDFGLRNNTLVYFTSDHGGHLEARRGHAQLG  
GWNGIYKGGKGMGGWEGGIRVPGIVRWPGKVPAGRLIKEPTSLMDILPTVASVSGGSLPQ  
DRVIDGRDLMPLLQGNVRHSEHEFLFHYCGSYLHAVRWIPKDDSGSVWKAHYVTPVFQPP  
ASGGCYVTSLCRCFGEQVTYHNPPLLFDLSDRDPSESTPLTPATEPLHDFVIKKVANALKE  
HQETIVPVTYQLSELNQGRTWLKPCCGVFPFCLCDKEEEVSQPRGPNEKR

>sp|Q9H2C2|ARV1\_HUMAN Protein ARV1 OS=Homo sapiens GN=ARV1 PE=2 SV=1

MNGGGRSGLQQGKGNVDGVAATPTAASASCQYRCIECNQEAKELYRDYNHGVLKITICKS  
CQKVPDKYIEYDPVILINAILCKAQAYRHILFNTQINIHGKLCIFCLLCEAYLRWWQLQ  
DSNQNTAPDDLIRYAKEWDFYRMFAIAALEQTAYFIGIFTLWVERPMTAKKKPNFILL  
KALLSSYGKLLLIPAVIWEHDYTSVCLKLKVFVLTSNFQAIRVTNLNKRKLSFLAVLS  
GLLLESIMVYFFQSMEDVGSDYAIFKSQDF

>sp|POC7U1|ASA2B\_HUMAN Putative inactive neutral ceramidase B OS=Homo sapiens GN=ASA2B  
PE=2 SV=1

MRQHRQFMDRTHYLLTFSSSETLLRLLLRIVDRAKGRFTFGDVLQPAKPEYRVGEVAEVI  
FVGANPKNSVQNQTHQTFLTVEKYEATSTSWQIVCNDASWETRFYWHKGLLGLSNATVEW  
HIPDTAQPGIYRIRYFGHNKQDILKPAVILSFEGTSPAFAEVVTI

>sp|Q13510|ASA1\_HUMAN Acid ceramidase OS=Homo sapiens GN=ASA1 PE=1 SV=5

MPGRSCVALVLLAAAVSCAVAQHAPPWTEDCRKSTYPPSGPTYRGAVPWYTINLDLPPYK  
RWHEMLDKAPVLKIVNSLKNMINTFVPSGKIMQVVDEKLPGLLGNFPGPFEEMKGIA  
AVTDIPLGEIISFNIFYELFTICTSIVAEDKKGHLIHGRNMDFGVFLGWNINNDTWVITE  
QLKPLTVNLDFQRNNKTVFKASSFAGYVGMLTGFKPGLFSLTLNERFSINGGYLGILEWI  
LGKKDVMWIGFLTRTVLENSTSYEEAKNLLTKTKILAPAYFILGGNQSGEGCVITDRKE  
SLDVYELDAKQGRWYVVQTNYDRWKHPFLLDDRTPAKMCLNRTSQENISFETMYDVLST  
KPVNLKLTVYTTLIDVTKGQFETYLRDCPDPCIGW

>sp|O43150|ASAP2\_HUMAN Arf-GAP with SH3 domain, ANK repeat and PH domain-containing  
protein 2 OS=Homo sapiens GN=ASAP2 PE=1 SV=3

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVRMVLYKMKKSVKA  
INSSGLAHVENEEQYTALEKFGGNCVCRDDPDLSAFLKFSVFTKELTALFKNLIQNMN  
NIISFPLDSLKGDLKGVKGDLLKPPDKAWKDYETKITKIEKEKKEHAKLHGMIRTEISG  
AEIAEEMEKERRFFQLQMCYLLKVNEIKIKKGVDLLQNLIKYFHAQC�FFQDGLKAVES  
LKPSIETLSTDLHTIKQAQDEERRQLIQLRDILKSALQVEQKEDSQIRQSTAYSLHQPPQ  
NKEHGTERNGSLYKKS DGIRKVVQKRKCSVKN GFLTISHGTANRPPAKLNLLTCQVKTNP

EEKKCFDLISHDRTYHFQAEDEQECQIWMSVLQNSKEEALNNAFKGDDNTGENNIVQELT  
KEIISEVQRMTGNDVCCDCGAPDPTWLSTNLGILTCIECSGIHRELGVHYSRMSLTLDV  
LGTSELLAKNIGNAGFNEIMECCLPEDSVKPNPGSDMNARKDYITAKYIERRYARKKH  
ADNAAKLHSLCEAVKTRDIFGLLQAYADGVDLTEKIPLANGHEPDETALHLAVRSVDRTS  
LHIVDFLVQNSGNLDKQTKGKSTALHYCCLTDNAECLKLLLRGKASIEIANESGETPLDI  
AKRLKHEHCEELLTQALSGRFNSHVHVEYEWRLLEDLDESDDDMDEKLQPSPNRREDRP  
ISFYQLGSNLQSNVSLARDAANLAKEKQRAFMPISILQNETYGALLSGSPPPAQPAAPS  
TTSAPPLPPRNVGKVQTASSANTLWKTNSVSDGGSRQRSSDPPAVHPPLPPLRVSTSN  
PLTPTPPPPVAKTPSVMEALSQPSKPAPPGISQIRPPPLPPQPPSRLPQKKPAPGADKST  
PLTNKGQPRGPVDSLATEALGPLSNAMVLQPPAPMPRKSQATKLKPKRVKALYNCAVADNP  
DELTFSEGDVIVDGEEDQEWIWIGHIDGDPGRKGAFVPSFVHFIAD

>sp|Q8TDY4|ASAP3\_HUMAN Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 3 OS=Homo sapiens GN=ASAP3 PE=1 SV=1

MPEQFSVAEFLAVTAEDLSSPAGAAAAFAAKMPRYRGAALAREEILEGDQAILQRIKKAVR  
AIHSSGLGHVNEEQYREAVESLGNSHLSQNSHELSTGFLNLAVFTREVAALFKNLIQNL  
NNIVSFPLDSLKGQLRDGRQDSKKQLEKAWKDYEAKMAKLEKERDRARVTGGIPGEVAQ  
DMQRERRIFQLHMCEYLLKAGESQMKQGPDLQSLIKFFHAQHNFQDGWKAQSLFPFI  
EKLAASVHALHQAQEDQLKLTQLRDSLRLGTLQLESREEHLNRKNSGCGYSIHQHQGNKQ  
FGTEKVGFLYKKSQDGIIRRVWQKRKCGVKYGCLTISHSTINRPPVKLTLLTCQVRPNPEEK  
KCFDLVTHNRTYHFQAEDEHECEAWVSVLQNSKDEALSSAFLGEPGSGWGSAGHDGE  
PHDLTKLLIAEVKSRPGNSQCCDCGAADPTWLSTNLGVLTCIQCSGVHRELGVRFSRMS  
LTDLGLPSELLALNMGNTSFNEVMEAQLPSHGGPKPSAESDMGTRRDYIMAKYVEHRF  
ARRCTPEPQRLWTAICNRDLSVLEAFANGQDFGQPLPGPDAQAPEELVLHLAVKVANQA  
SLPLVDFIIQNGGHLDAKAADGNTALHYAALYNQPDCLKLLKGRALVGTVNEAGETALD  
IARKKHHKECEELLEQAQAGTFAFPLHVDYSWVISTEPGSDSEDEEEKRCLLKLPAAQH  
WASGRLDISNKTYETVASLGAATPQGESEDCPPPLPVKNSSRTLQGCARHASGDRSEVS  
SLSSEAPETPESLGSPASSSSLMSPLEPGDPSQAPPNSEEGLREPPGTSRPSLTSGTTPS  
EMYLPVRFSSSESTRSYRRGARSPEGDGPSARQPLPRNVPGITEGDGSRGTGSLPASSVQL  
LQD

>sp|P42127|ASIP\_HUMAN Agouti-signaling protein OS=Homo sapiens GN=ASIP PE=1 SV=1

MDVTRLLLATLLVFLCFFTANSHLPPEEKLDDRLSRNSNVNLLDVPSVSIVALNKKSK  
QIGRKAEEKKRSSKKEASMKKVVRPTPLSAPCVATRNSCKPPAPACCDPCASCQCRFFR  
SACSCRVLNLN

>sp|A6ND91|ASPD\_HUMAN Putative L-aspartate dehydrogenase OS=Homo sapiens GN=ASPDH PE=1 SV=2

MADRGPWVRVGVVGYGRLGQSLVSRLLAQGPELGLELVFVWNRDPGRMAGSVPPSLQLQNL  
AALGERRPDLVVEVAHPKI IHESGAQILRHANLLVGSPSALSQTTERQLEASQHWDA  
VFVARGALWGAEDIRRLDAAGGLRSLRVTMATHPDGRLEGLAAAHSPGPCTVLYEGPV  
RGLCPFAPRNSNTMAAALAAPSLGFDGVIGVLVADTSLTDMHVVDVELSGPRGPTGRSF  
AVHTRRENPAEPGAVTGSATVTAFWQSLACQPLSRPGIHL

>sp|Q9Y284|ASTER\_HUMAN Protein Asterix OS=Homo sapiens GN=WDR830S PE=1 SV=1

MSTNMSDPRRPKNVLRYPKPPSECNPALDDPTPDYMNLLGMIFSMCGLMLKLKCAWVA  
VYCSFISFANSRSSEDTKQMMSSFMLSISAVVMSYLQNPQPMTPPW

>sp|P98196|AT11A\_HUMAN Probable phospholipid-transporting ATPase IH OS=Homo sapiens  
GN=ATP11A PE=1 SV=3

MDCSLVRTLVHRYCAGEENWVDSRTIYVGHREPPPGAEAYIPQRYPDNRIVSSKYTFWNF  
IPKNLFEQFRRVANFYFLIIFLVQLIIDTPTSPVTSGLPLFFVITVTAIKQGYEDWLRHK  
ADNAMNQCPVHFIIQHGKLVKQSRKLRVGDIVMVKEDETFPCDLIFLSSNRGDGTCHVTT  
ASLDGESSHKTHYAVQDTKGFHTEEDIGGLHATIECEQPQPDLYKFVGRINVYSDLNDPV  
VRPLGSENLLRGATLKNTEKIFGVAIYTGMEKTMALNYQSKSQKRSVEKSMNAFLIVY  
LCILISKALINTVLKYMWQSEPFREPWYNQKTESERQRNLFKAFTDFLAFMVLFNYYII  
PVSMYVTVMQKFLGSFYITWDEDMFDEETGEGPLVNTSDLNEELGQVEYIFTDKTGTLT  
ENNMEFKECCIEGHVYVPHVICNGQVLPESGIDMIDSSPSVNGREREELFFRALCLCHT  
VQVKDDSDVDGPRKSPDGGKSCVYISSSPDEVALVEGVQRLGFTYLRCLKDNYMEILNREN  
HIERFELLEILSFDVRRRMSVIVKSATGEIYLFCKGADSSIFPRVIEGKVDQIRARVER  
NAVEGLRTLCAVYKRLIQEEYEGICKLLQAAKVALQDREKKLAEAYEQIEKDLTLLGATA  
VEDRLQEKAADTIEALQKAGIKVWVLTGDKMETAAATCYACKLFRNTQLLELTTKRIEE  
QSLHDVLFELSKTVLRHSGSLTRDNLGSLADMQDYLIIIDGAALSLIMKPREDGSSGNY  
RELFLICRSCSAVLCCRMAPLQKAQIVKLKFSKEHPITLAIGDGANDVSMILEAHVGI  
GVIGKEGRQAARNSDYAIPKFKHLKKMLLVHGHFYIIRISELVQYFFYKNVCFIFPQFLY  
QFFCGFSQQTLYDTAYLTLYNISFTSLPILLYSLMEQHVGLDVLKRDPTLYRDVAKNALL  
RWRVFIYWTLGLFDALVFFFGAYFVFENTTVTSNGQIFGNWTFGTLVFTVMVFTVTLKL  
ALDTHYWTWINHFVIWGSLLFYVVSLLWGGVIWPFLNYQRMYYVFIQMLSSGPAWLAIV  
LLVTISLLPDVLKKVLCRQLWPTATERVQTKSQCLSVEQSTIFMLSQTSSSLSF

>sp|Q8NB49|AT11C\_HUMAN Phospholipid-transporting ATPase IG OS=Homo sapiens GN=ATP11C PE=1  
SV=3

MQMVPSLPPASECAGEEKRVGTRTVFVGNHVPVSETEAYIAQRFCNRIVSSKYTLWNFLP  
KNLFEQFRRRIANFYFLIIFLVQVTVDTPVTSGLPLFFVITVTAIKQGYEDCLRHRAD  
NEVNKSTVYIIENAKRVRKESEKIKVGDVVEVQADEFPCDLILLSSCTDGTCTCYTTAS  
LDGESNCKTHYAVRDTIALCTAESIDTLRAAIECEQPQPDLYKFVGRINIYNSLEAVAR  
SLGPENLLLKGATLKNTEKIYGVAVYTGMEKTMALNYQGSQKRSVEKSINAFLIVYLF  
ILLTKAAVCTTLKYVWQSTPYNDEPWYNQKTQKERETLKVLMFTDFLSFMVLFNFIIIPV  
SMYVTVMQKFLGSFFISWDKDFYDEEINEGALVNTSDLNEELGQVDYVFTDKTGTLTEN  
SMEFIECCIDGHKYKGTQEVDGLSQTGTLTYFDKVDKNREELFLRALCLCHTVEIKTN  
DAVDGATESAELTYISSSPDEIALVKGAKRYGFTFLGNRNGYMRVENQRKEIEEYELLHT  
LNFDAVRRRMSVIVKTQEGDILLFCKGADSAVFPRVQNHEIELTKVHVERNAMDGYRTL  
VAFKEIAPDDYERINRQLIEAKMALQDREKMEKVFDIETNMNLIGATAVEDKLQDQAA  
ETIEALHAAGLKVVVLTGDKMETAKSTCYACRLFQTNTLELTTKTIEESERKEDRLHE  
LLIEYRKLLHEFPKSTRSFKKAWTEHQEYGLIIDGSTLSLILNSSQDSSSNYKSIFLQ  
ICMKCTAVLCCRMAPLQKAQIVRMVKNLKGSPITLSIGDGANDVSMILESHVGIGKKE  
GRQAARNSDYSVPKFKHLKKLLLAHGLYYVRIAHLVQYFFYKNLCFILPQFLYQFFCGF  
SQQPLYDAAYLTMYNICFTSLPILAYSLLEQHINIDTLTSDPRLYMKISGNAMLQLGPFL  
YWTFLAAFEQTVFFFGTYFLFQTASLEENGKVGYNWTFGTIVFTVLVFTVTLKLALDTRF  
WTWINHFVIWGSALFYVVSFFWGGIWPFLKQRMVYFVFAQMLSSVSTWLAIILLIFIS  
LFPEILLIVLKNVRRRSARRNLSRRASDLSARPSVRPLLLRTFSDESNVL

>sp|Q9NQ11|AT132\_HUMAN Probable cation-transporting ATPase 13A2 OS=Homo sapiens  
GN=ATP13A2 PE=1 SV=2



MSADSSPLVGSTPTGYGTLTIGTSIDPLSSSVSSVRLSGYCGSPWRVIGYHVVVMMAGI  
PLLLFRWKPLWGVRLRLRPCNLAHAETLVIEIRDKEDSSWQLFTVQVQTEAIGEGSLEPS  
PQSQAEGRSQAAGVAVPEGAWKDTAQLHKSEEAVSVGQKRVLRYYLFQGGQRYIWIETQQ  
AFYQVSLLDHGRSCDDVHRSRHGLSLQDMVRKAIYGNVISIPVKSYPQLLVDEALNPY  
YGFQAFSIALWLADHYWYALCIFLISSISICLSLYKTRKQSQTLRDMVKLSMRVCVCRP  
GGEEEWVDSELVPGDCLVLPQEGGLMPCDAALVAGECMVNESSLTGESIPVLKTALPEG  
LGPYCAETHRRHTLFCGTLILQARAYVGPHVLAVVTRTGCTAKGGLVSSILHPRPINFK  
FYKHSMKFVAALSVLALLGTIYSIFILYRNRVPLNEIVIRALDLVTVVPPALPAAMTVC  
TLYAQSRLRRQGIFCIHPLRINLGGKLQLVCFDKTGTLTEDGLDVMGVVPLKGQAFPLV  
PEPRRLPVGPLLRLATCHALSRLQDTPVGDPMDLKMVESTGWVLEEEPAADSAFGTQVL  
AVMRPPLWEPQLQAMEEPPVPVSVLHRFPFSSALQRMSVVVAWPQATQPEAYVKGSPELV  
AGLCNPETVPTDFAQMLQSYTAAGYRVVALASKPLPTVPSLEAAQQLTRDVEGDLSSLG  
LLVMRNLKPKQTPPIQALRRTRIRAVMTGDNLTAVTVARGCGMVAPQEHLIIIVHATH  
PERGQPASLEFLPMESPTAVNGVKDPDQAASYTVEPDPRSRLHALSGPTFGIIVKHFPKL  
LPKVLVQGTVFARMAPEQKTELVCELQKLQYCVGMC GDGANDCGALKAADVGISLSQAEA  
SVVSPFTSSMASIECVPMVIREGRCSLDTSFSVFYKYMALYSLTQFISVLILYTINTNLGD  
LQFLAIDLVIITTVAVLMSRTGPALVLRVPPGALLSVPVLSLLLQMVLTGVQLGGY  
FLTLAQPFVPLNRTVAAPDNLPNYENTVVFSLSSFQYLILAAAVSKGAPFRRPLYTNVP  
FLVALALLSSVLVGLVLPGLLQGPLALRNITDTGFKLLLLGLVTLNFGAFMLESVLDQ  
CLPACLRRLRPKRASKKRFKQLERELAEQPWPPLPAGPLR

>sp|Q93084|AT2A3\_HUMAN Sarcoplasmic/endoplasmic reticulum calcium ATPase 3 OS=Homo sapiens GN=ATP2A3 PE=1 SV=2

MEAAHLLPAADVLRHFSVTAEGGLSPAQVTGARERYGNELPSEEGKSLWELVLEQFEDL  
LVRILLAAALVSFVLAWFEEGEETTTAFVEPLVIMLILVANAIVGVWQERNAESAIEALK  
EYEPENGKVIIRSDRGVQIRARDIVPGDIVEVAVGDKVPADLRLIEIKSTTLRVDQSIL  
TGESVSVTKHTEAIPDPRAVNQDKKNMLFSGTNITSGKAVGVAVATGLHTELGKIRSQMA  
AVEPERTPLQRKLDEFGRQLSHAISVICVAVWVINIGHFADPAHGGSWLRGAVYYFKIAV  
ALAVAAIPEGLPAVITTCALGTRRMARKNAIVRSLPSVETLGCTSVICSDKTGTLTTNQ  
MSVCRMFFVAEADAGSCLLHEFTISGTTYTPEGEVRQGDQPVRGCGFDGLVELATICALC  
NDSALDYNEAKGVYEKVGEATETALTCLVEKMNVFDTDLQALSRVERAGACNTVIKQLMR  
KEFTLEFSRDRKSMSVYCTPTRPHPTGQGSKMFVKGAPESVIERCSSVRVGSRTAPLTPT  
SREQILAKIRDWGSGLTLRCLALATRDAPPRKEDMELDDCSKFVQYETDLTFVGCVGML  
DPPRPEVAACITRCYQAGIRVVMITGDNKGTAVAICRRLGIFGDTEVAGKAYTGREFDD  
LSPEQQRQACRTARCFARVEPAHKSRIVENLQSFNEITAMTGDGVNDAPALKKAEIGIAM  
GSGTAVAKSAAEMVLSDDNFASIVAAVEEGRAIYSNMKQFIRYLISNVGEVVCIFLTAI  
LGLPEALIPVQLLWVNLVTDGLPATALGFNPPDLIMEKLPRSPREALISGWLFFRYLAI  
GVYVGLATVAAATWWFVYDAEGPHINFYQLRNFLKCEDNPLFAGIDCEVFESRFPTMA  
LSVLVTIEMCNALNSVSENQSLLRMPWMNPWLLVAVAMSMALHFLILLVPPLPLIFQVT  
PLSGRQWVVVLQISLPVILLDEALKYLSRNHMHACLYPGLLRTVSQAWSRQPLTTSWTPD  
HTGRNEPEVSAGNRVESPVCTSD

>sp|Q16720|AT2B3\_HUMAN Plasma membrane calcium-transporting ATPase 3 OS=Homo sapiens GN=ATP2B3 PE=1 SV=3

MGDMANSSIEFHPKPPQQRDVPQAGGFGCTLAELRTLMELRGAELQKIEEAYGDVSGLC  
RRLKTSPTTEGLADNTNDLEKRRQIYGQNFIPPKQPKTFLQLVWEALQDVTLLILEVAAIV

SLGLSFYAPPGESEACGNVSGGAEDEGEAEAGWIEGAAILLSVICVVLVTAFNDWSKEK  
QFRGLQSRIEQEKFVIRNGQLLQVPVAALVVGDIQVKYGDLLPADGVLIQANDLKID  
ESSLTGESDHVRKSADKDPMLLSGTHMEGSGRMVVTAVGVNSQTGIIFTLLGAGGEEEE  
KKDKKGKQQDGAMESSQTKAKKQDGAVAMEMQPLKSAEGGEMEEREKKKANAPKKEKSVL  
QGKLTCLAVQIGKAGLVMSAITVILVLYFVIETFVVEGRTWLAECTPVVYQYFVKFFII  
GVTVLVVAVPEGLPLAVTISLAYSVKKMMKDNLLVRHLDACETMGNATAICSDKTGTLTT  
NRMTVVQSYLGDTHYKEIPAPSALTPKILDLLVHAISINSAYTTKILPPEKEGALPRQVG  
NKTECALLGFVLDLKRDFQPVREQIPEDKLYKVYTFNSVRKSMSTVIRMPDGGFRLFSKG  
ASEILLKKCTNILNSNGELRGFRPRDRDDMVRKIIIEPMACDGLRTICIAYRDFSAGQEPD  
WDNENEVVGDLTCIAVVGIEDPVRPEVPEAIRKQCRAGITVRMTGDNINTARAIAAKCG  
IIQPGEDFLCLEGKEFNRRIRNEKGEIEQERLDKVWPKLRVLARSSPTDKHTLVKGIIDS  
TTGEQRQVVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFTSIVKAVM  
WGRNVYDSISKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTFASLALA  
TEPPTESLLLRLKPYGRDKPLISRTMMKNILGHAVYQLAIIFTLLFVGELFFDIDSGRNAP  
LHSPPEHYTIIIFNTFVMMQLFNEINARKIHGERNVFDGIFSNPIFCTIVLGTFGIQIVI  
VQFGGKPFSCSPLSTEQWLWCLFVGVGELVWGQVIATIPSTQLKCLKEAGHGPGKDEMTD  
EELAEGEEEDHAERELRRGQILWFRGLNRIQTQIRVVKAFRSSLYEGLEKPESKTSIHN  
FMATPEFLINDYTHNIPLIDDDVDENEERLRAPPPSPNQNNNAIDSGIYLTTHVTKSA  
TSSVFSSSPGSPLHSVETSL

>sp|Q9NW81|AT5SL\_HUMAN ATP synthase subunit s-like protein OS=Homo sapiens GN=ATP5SL PE=1 SV=3

MAAPWASLRLVAPMWNGRIRGIIHRLGAAVAPEGNQKKKRTILQFLTNYFYDVEALRDYLL  
QREMYKVHEKNRSYTWELEKQHGPYGAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWN  
FCEVPVEAVDAGDCDINYEGLDNLRLKELQSLSLQRCCHVDDWCLSRLYPLADSLQELS  
LAGCPRISEGLACLHHLQNLRRLDISDLPVSNPGLTQILVEEMPLNCEVVGVDWAEGL  
KSGPEEQPRDTASPVPA

>sp|Q9Y6H3|ATP23\_HUMAN Mitochondrial inner membrane protease ATP23 homolog OS=Homo sapiens GN=ATP23 PE=1 SV=3

MAGAPDERRRRGPAAGEQLQQQHVSQVFPERLAQGNPQQGFFSSFFTSNQKCQLRLKTL  
ETNPYVKLLLDAMKHSGCAVNKDRHFSCEDCNGNVSGGFDASTSQIVLCQNNIHNQAHMN  
RVVTHELIHAFDHCRAHVDWFTNIRHLACSEVRAANLSGDCSLVNEIFRLHFGLKQHHQT  
CVRDRATLSILAVRNISKEVAKKAVDEVFESCFNDHEPFGRIPHNKTYARYAHRDFENRD  
RYYJNI

>sp|Q99766|ATP5S\_HUMAN ATP synthase subunit s, mitochondrial OS=Homo sapiens GN=ATP5S PE=1 SV=3

MCCAVSEQRLTCADQMMPFGKISQQLCGVKKLPWSCDSRYFWGWLNAVFNKVDYDRIRDV  
GPDRAASEWLLRCGAMVRYHGQERWQKDYNHLPTGPLDKYKIQAI DATDSCIMSIGFDHM  
EGLEHVEKIRLCKCHYIEDDCLRLSLENLQKTILEMEIISCGNITDKGIIALRHLRNL  
KYLLSDDLPGVREKENLVQAFKTALPSLELKLK

>sp|P06576|ATPB\_HUMAN ATP synthase subunit beta, mitochondrial OS=Homo sapiens GN=ATP5B PE=1 SV=3

MLGFVGRVAAAPASGALRRLTPSASLPPAQLLLRAAPTAVHPVRDYAAQTSPSPKAGAAT  
GRIVAVIGAVVDVQFDEGLPPIILNALEVQGRETRLVLEVAQHLGESTVRTIAMDGTEGLV  
RGQKVLDSGAPIKIPVGPETLGRIMNVIGEPIDERGPIKTKQFAPIHAEAEPEMEMSVEQ

EILVTGIKVVDLLAPYAKGGKIGLFGGAGVGKTVLIMELINNVAKAHGGYSVFAGVGERT  
REGNDLYHEMIESGVINLKDATSKVALVYGQMNPPGARARVALTGLTVAEYFRDQEGQD  
VLLFIDNIFRFTQAGSEVSALLGRIPSAVGYPQLATDMGTMQERITTTKKGSITSVQAI  
YVPADDLTDPAPATTFAHLDATTVLSRAIAELGIYPAVDPLDSTSRIMDPNIVGSEHYDV  
ARGVQKILQDYKSLQDI IAILGMDELSEEDKLTVSRARKIQRFLSQPFQVAEVFTGHMGK  
LVPLKETIKGFQQILAGEYDHLPEQAFYMGPIEEAVAKADKLAEEHSS

>sp|Q9UBL3|ASH2L\_HUMAN Set1/Ash2 histone methyltransferase complex subunit ASH2 OS=Homo sapiens GN=ASH2L PE=1 SV=1

MAAAGAGPGQAGAGPGPGAVANATGAEEGEMKPVAAGAAAPPGEGISAAPTVEPSSGEA  
EGGEANLVDSVSGGLETESSNGKDTLEGAGDTSEVMDTQAGSVDEENGRQLGEVELQCGIC  
TKWFTADTFGIDTSSCLPFMTNYSFHCNVCHHSGNTYFLRKQANLKEMCLSALANLTWQS  
RTQDEHPKTMFSKDKDIIPFIDKYWECMTTRQRPKGMTWPNIVKTMSEKRDVFLVKEHP  
DPGSKDPEEDYPKFGLLDQDLNIGPAYDNQKQSSAVSTSGNLNGGIAAGSSGKGRGAKR  
KQQDGGTTGTTKKARSDPLFSAQRLPPHGYPLEHPFNKDGYRYILAEPDPHAPDPEKLEL  
DCWAGKPIPGDLYRACLYERVLLALHDRAMQKISDDRLTVVGEKGYSMVRASHGVRKGA  
WYFEITVDEMPDPTAARLGWSQPLGNLQAPLGYDKFSYSWRSKKGTKFHQSIGKHYSSGY  
GGQDVLGFYINLPEDTETAKSLPDTYKDKALIKFSYLYFEEDFVDKAEKSLKQTPHSE  
IIFYKNGVNQGVAYKIDIFEGVYFPAISLYKSCTVSINFGPCFKYPPKDLTYRPMDSMGWG  
AVVEHTLADVLYHVETEVDGRRSPWP

>sp|Q92485|ASM3B\_HUMAN Acid sphingomyelinase-like phosphodiesterase 3b OS=Homo sapiens GN=SMPDL3B PE=1 SV=2

MRLLAWLIFLANWGGARAEPGKFWHIADLHLDPDYKVS KDPFQVCPSAGSQVPDAGPWG  
DYLCDSPWALINSSIAMKEIEPEPDFILWTGDDTPHPVDEKLGEAAVLEIVERLTKLIR  
EVFPDTKVYAALGNHDFHPKNQFPAGSNNIYNQIAELWKPWLSNESIALFKKGAFYCEKL  
PGPSGAGRIVVLNTNLYYTSNALTADMADPGQFQWLEDVLTASKAGDMVYIVGHVPPG  
FFEKTQNAWFREGFNEKYLVVRKHHRVIAGQFFGHHHTDSFRMLYDDAGVPISAMFIT  
PGVTPWKTTLPGVVNGANNPAIRVFEYDRATLSLKDMVTYFMNLSQANAQGTPRWELEYQ  
LTEAYGVPDASAHSMHTVLDRIAGDQSTLQRYVVYNSVSYAGVCDEACSMQHVCMARQV  
DIDAYTTCLYASGTPVPQLPLLLMALLGLCTLVL

>sp|O95671|ASML\_HUMAN N-acetylserotonin O-methyltransferase-like protein OS=Homo sapiens GN=ASMTL PE=1 SV=3

MVLCPIVIGKLLHKRVVLASASPRRQEILSNAGLRFEVVPSKFKEKLDKASFATPYGYAME  
TAKQKALEVANRLYQKDLRAPDVVIGADTIVTVGGLILEKPVDKQDAYRMLSRLSGREHS  
VFTGVAIVHCSSKDHQLDTRVSEFYEETKVKFSELSEELLWEYVHSGEPMDKAGGYGIQA  
LGGMLVESVHGDFLNVVGFPLNHFCKQLVKLYPPRPEDLRRSVKHDSIPAADTFEDLS  
VEGGGSEPTQRDAGSRDEKAEAGEAGQATAEAECHRTRETLPFPTRLLELIEGFMLSKG  
LLTACKLKVFDLLKDEAPQKAADIASKVDASACGMERLLDICAAMGLEKTEQGYSTET  
ANVYLASDGEYSLHGFIMHNNDLTWNLFYLEFAIREGTNQHHRALGKKAEDLFQDAYYQ  
SPETRLRFMRAMHGMTKLTAQCVATAFNLSRFSSACDVGGCTGALARELAREYPRMQVTV  
FDLPDIIELAAHFQPPGPQAVQIHFAAGDFFRDPLPSAELYVLCRILHDWPDDKVHKLLS  
RVAESCKPGAGLLLVTLLDEEKRVAQRALMQSLNMLVQTEGKERSLGEYQCLLELHGFH  
QVQVVHLGGVLDAILATKVAP

>sp|P46597|ASMT\_HUMAN Acetylserotonin O-methyltransferase OS=Homo sapiens GN=ASMT PE=1 SV=1

MGSSSEDQAYRLLNDYANGFMVSQVLFAACELGVFDLLAEAPGLDVAAVAAGVRASAHGT  
ELLLDICVSLKLLKVETRGGKAFYRNTELSSDYLT TVSPTSQCSMLKYMGRTSYRCWGHL  
ADAVREGRNQYLETFGVPAEELFTAIYRSEGERLQFMQALQEVWSVNGRSVLTAFDLSVF  
PLMCDLGGGAGALAKECMSLYPGCKITVFDIPEVVWTAKQHFSFQEEEQIDFQEGDFFKD  
PLPEADLYILARVLHDWADGKCSHLLERIYHTCKPGGGILVIESLLDEDRRGPLLTQLYS  
LNMLVQTEGQERTPTHYHMLLSSAGFRDFQFKKTGAIYDAILARK

>sp|Q2TB18|ASTE1\_HUMAN Protein asteroid homolog 1 OS=Homo sapiens GN=ASTE1 PE=1 SV=1

MGIRGLMSFVEDHSNEFFTDLKLRDTKIVIDGYALFHRLCFSSNLDLRYGGDYDSFADV  
QKFFESLFACNICPYVVLDDGGCDISDKKLTTLKDRAREKIQMAHSLSVGGSGYVCPLLIR  
EVFIQVLIKLRVCFVQCFSEADRDIMTLANHWNCPVLSSDSDFCIFDLKTGFCPLNSFQW  
RNMNTIKGTQNYIPAKCFSLDAFCHHFSNMNKALLPLFAVLGNDHVNLPIMETFLSKAR  
LPLGATSSKGRRHRIILGLLNWLSHFANPTEALDNVLKYLPKKDRENVKELLCCSMEEYQ  
QSQVKLQDFFQCGTYVCPDALNLGLPEWVLVALAKGQLSPFISDALVLRRTILPTQVENM  
QQPNAHRISQPIRQIIYGLLLNASPHLDKTSWNALPPQPLAFSEVERINKNIRTSIIDAV  
ELAKDHSLSRLTELSLRRRQMLLLETCLKVKQTILEPIPTSLKLPIAVSCYWLQHTETKA  
KLHHLQSLLLTMLVGPLIAIINSPGKEELQEDGAKMLYAEFQRVKAQTRLGTRLDLDTAH  
IFCQWQSQLQMGMYLNQLLSTPLPEPDLTRLYSGLVHGLCQQLLASTSVESLLSICPEA  
KQLEYELFNATRSYAPAEIFLPKGRSNSKKKRQKKQNTSCSKNRGRTTAHTKCWYEGNNR  
FGLLMVENLEEHSEASNIE

>sp|Q9C0F0|ASXL3\_HUMAN Putative Polycomb group protein ASXL3 OS=Homo sapiens GN=ASXL3  
PE=2 SV=3

MKDKRKKKDRTWAEAAARLAEKHPNSPMTAKQILEVIQKEGLKETSGTSPLACLNAMLHT  
NTRIGDGTFFKIPGKSGLYALKKEESSCPADGTLDLVCESELDGTDMAEANAHEENGVC  
SKQVTDEASSTRDSSLTNTAVQSKLVSSFQHQHTKKALKQALRQQKRRNGVSMMVNKTVP  
RVVLTPLKVSDEQSDSPSGSESKNGEADSSDKEMKHGQKSPTGKQTSQHLKRLKKSGLGH  
LKWTKAEDIDIETPGSILVNTNLRALINKHTFASLPQHFFQYLLLLLPEVDRQMGSDGIL  
RLSTSALNNEFFAYAAQGWKQRLAEGEFTPEMQLRIRQEIEKEKKTEPWKEKFFERFYGE  
KLGMSREESVKLTTPGNNAQAQSSSSCGTSGLPVSAQTALAEQQPKSMKSPASPEPGFCA  
TLCPMVEIPPKDIMAELESEDILPEESVIEEIAEEVETSICECQDENHKTIPFSEEA  
ESLNSHEEPQIAPPEDNLESCVMMNDVLETLPHEVVKIEGKSESPQEEMTVVIDQLEVC  
DSLIPSTSSMTHVSDTEHKESETAVETSTPKIKTGSSSLEGQFPNEGIAIDMELQSDPEE  
QLSENACISETSFSESPEGACTSLPSPGGETQSTSEESCTPASLETTFCSEVSSTENTD  
KYNQRNSTDENFHASLMSEISPISTSPSEISEASLMSNLPLTSEASPVSNLPLTSETSPMS  
DLPLTSETSSVSSMLLTSETTFVSSLPLPSETSPISNSSINERMAHQQRKSPSVSEEPLS  
PQKDESSATAKPLGENLTSQQKNLSNTPEPIIMSSSSIAPEAFPSDLHNKTLSSQQTCKS  
HVDTEKPYPASIPELASTEMIKVKNHSLVLRTEKKVLPSPLELSVFSEGTDNKGNELPSA  
KLQDKQYISSVDKAPFSEGSRNKTHKQGSTQSRLETSHTSKSSEPSKSPDGIRNESRDSE  
ISKRKTAEQHSFGICKEKRARIEDDQSTRNISSSSPPEKEQPPREPRVPPLKIQLSKIG  
PPFIKSKPVSKPESRASTSTSVSGGRNTGARTLADIKARAQQARAQREAAAAA AVAAAA  
SIVSGAMGSPGEGGKTRTLAHIKEQTKAKLFAKHQARAHLFQTSKETRLPPPLSSKEGPP  
NLEVSSTPETKMEGSTGVIIVNPNCRSPSNKSAHLRETTTVLQQSLNPSKLPETATDSV  
HSSDENIPVSHLSEKIVSSTSSSENSVPMLFNKNSVPVSVCSAISGAIKEHPFVSSVDK  
SSVLSVDSANTTISACNISMLKTIQGTDTPCIAIIPKCIESTPISATTEGSSISSMDD  
KQLLISSSSASNLVSTQYTSVPTPSIGNNLPNLSTSSVLIPPMGINNRFPEKIAIPGSE

EQATVSMGTTVRAALSCSDSVAVTDSLVAHPTVAMFTGNMLTINSYDSPPKLSAESLDKN  
SGPRNRADNSGKPQQPPGGFAPAAINRSIPCKVIVDHSTLTSSLSLTVSVESSEASLDL  
QGRPVRTEASVQPVACPVSVISRPEPVANEGIDHSSTFIAASAQKQDSTLPATCTSLR  
ELPLVPDKLNEPTAPSHNFAEQARGPAPFKSEADTTCSNQYNPSNRICWNDDGMRSTGQP  
LVTHSGSSKQKEYLEQSCPKAIKTEHANYLNVSELHPRNLVTNVALPVKSELHEADKGFR  
MDTEDFPGPPELPPPAAGASSVQQTQNMKASTSSPMEEAISLATDALKRVPAGSSGCRL  
SSVEANNPLVTQLLQGNLPLEKVLQPRLGAKLEINRLPLPLQTTSVGKTAPERNEIPP  
SSPNPDGKGYLAGTLAPLQMRKRENHPKKRVARTVGEHTQVKCEPGKLLVEPDVKGVPCV  
ISSGISQLGHSQPFQEWLNKHSMQNRIVHSPEVKQQRLLPSCSFQQNLFHVDKNGGFH  
TDAGTSHRQQFYQMPVAARGPIPTAALLQASSKTPVGCNAFAFNRHLEQKGLGEVSLSSA  
PHQLRLANMLSPNMPMEKGEVGGTAHTMPNKALVHPPPPPPPPPPPLALPPPPPPPP  
LPPPLPNAEVPSDQKQPPVTMETTKRLSWPQSTGICSNIKSEPLSFEEGLSSSCELGMKQ  
VSYDQNEKQELKAFALKSADFSSYLLSEPQKPFTQLAAQKMVQVQQQQQLCGNYPTIHF  
STSFKRAASAIEKSIGILGSGSNPATGLSGQNAQMPVQNFADSSNADELELKCSCRLKAM  
IVCKGCGAFCHDDCIGPSKLCVACLVR

>sp|Q5T6C5|AT7L2\_HUMAN Ataxin-7-like protein 2 OS=Homo sapiens GN=ATXN7L2 PE=1 SV=1

MAVRERAAAAAALERRVPSLDDFAGQSWSSWVERADLPADGAELEESSKNTKKLDAMT  
LIKEDMSIFGHCPAHDDFYLVVCNHCSQVVKPQAFQKHCERRHGPLSKLYGRAPPPPPAP  
ASSQKCHVVNGQGPACRAPGSTKTSSREKQGSRSRGHQPPEKTQKDNLCQPGGLTKDSP  
GKPPMAPPSPKEPPGRENIEIIPSEGGSSHWAEGSPPEKEPSGTRLPPKTHRKMARKECDLN  
RQCGVINPETKKICTRLTCKIHSVHQRREVQGRAKDFDLVAELKANSRKGESPEKES  
GRKEQVLERPSQELPSSVQVVAAPSTFSVRAKQTYPYCALPRSRASSESELDDEGP  
CGGDGDPGLFPFPMPRGGTQASSESEEEGTSDDLHPPPDCHYATPRPQAFCTFGSRL  
VSPGCYVFSRRLDRFCSALSSMLERHLSTHMWKIIPAAEPPAHLVNSPLSAPLSPSSTG  
TCPRLPGPTLRPACPASMPPTKDNLVPSYPAGSPSVAAACSQAECMGGSQAITSPPLANT  
PSPSFSKLPPSKASKSSKGDGVEVEAPSRKRKLSPGPTTLKRTCILEPTGKGKPSGCRG  
LSAKTKTALSMGLNGTMGRVKRAGPLDCRGSPLQLPTPVKASQLENRGAAGHPAKALPT  
NCLSEEEVAKKRKNLATYCRPVKAKHCQAGAPADVACSVRRKKPGPALAFEKCSLTKSK  
AH

>sp|Q06055|AT5G2\_HUMAN ATP synthase F(0) complex subunit C2, mitochondrial OS=Homo sapiens  
GN=ATP5G2 PE=2 SV=1

MFACSKFVSTPSLVKSTSQLLSRPLSAVVLKRPEILTDESLSSLAVSCPLTSLVSSRSFQ  
TSAISRDIIDTAAKFIGAGAATVGAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGF  
ALSEAMGLFCLMVAFLILFAM

>sp|Q8TF62|AT8B4\_HUMAN Probable phospholipid-transporting ATPase IM OS=Homo sapiens  
GN=ATP8B4 PE=1 SV=3

MFCSEKKLREVERIVKANDREYNEKFQYADNRIHTSKYNILTFLPINLFEQFQRVANAYF  
LCLLILQLIPEISSLTWFTTIVPLVLVITMTAVKDATDDYFRHKSNDQVNNRQSEVLINS  
KLQNEKWMNVKVGDIKLENNQFVAADLLLLSSSEPHGLCYVETAELDGETNLKVRHALS  
VTSELGADISRLAGFDGIVVCEVPNNKLDKFMGILSWKDSKHSLNNEKIILRGCILRNTS  
WCFGMVIFAGPDTKLMQNSGKTKFKRTSIDRLMNTLVLWIFGFLICLGIILAIGNSIWES  
QTGDQFRTFLFWNEGEKSSVFSGLTFWSYIIILNTVVPISLYVSVEVIRLGHSYFINWD  
RKMYYSRKAIPAVARTTTLNEELGQIEYIFSDKTGTLTQNMFTKRCISINGRIYGEVHDD  
LDQKTEITQEKEPVDFSVKSQADREFQFFDHLMESIKMGDPKVHEFLRLALCHTMSE

ENSAGELIYQVQSPDEGALVTAARNFGFIFKSRTPETITIEELGTLVTYQLLAFLDFNNT  
RKRMSVIVRNPEGQIKLYSGADTILFEKLHPSNEVLLSLTSDHLSEFAGEGLRTLAIAY  
RDLDKDYFKWEHKMLEDANAATEERDERIAGLYEEIERDLMLLGATAVEDKLQEGVIETV  
TSLSLANIKIWWLTGDKQETAINIGYACNMLTDDMNDVFVIAGNNAVEVREELRKAKQNL  
FGQNRNFSNGHVCEKKQQLLEDSIVEETITGDYALIINGHSLAHALES DVKNDLLELAC  
MCKTVICCRVTPLQKAQVVELVKKYRNAVTLAIGDGANDVSMIKSAHIGVGISGQEGQLQA  
VLASDYSFAQFRLYQRLLLVHGRWSYFRMCKFLCYFFYKNFAFTLVHFWGFFCGFSAQT  
VYDQWFITLNFIVYTSLPVLAMGIFDQDVSDQNSVDCPQLYKPGQLNLLFNKRKFFICVL  
HGIYTSLVLFPIPYGAFYNVAGEDGQHIADYQSFAVTMATSLVIVSVQIALDTSYWTFI  
NHVFIWGSIAIYFSILFTMHSNGIFGIFPNQFPFVGNARHSLTQKCIWLVI LLTTVASVM  
PVVAFRFLKVDLYPTLSDQIRRWQAQKKARPPSSRRPRTRSSRRSGYAFAHQEGYGE  
LITSGKNMRAKNPPPTSGLKTHYNSTSWIENLCKKTTDVTSSFSQDKTVKL

>sp|Q5T9A4|ATD3B\_HUMAN ATPase family AAA domain-containing protein 3B OS=Homo sapiens  
GN=ATAD3B PE=1 SV=1

MSWLFVGNKGPKEGAGPPPPLPPAQPAGEGGDRGLGDRPAPKDKWSNFDPTGLERA  
AAARELEHSRYAKEALNLAQMGEQTLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRK  
EETRQHARAQYQDKLARQRYEDQLKQQLLNEENLRKQEEVQKQAMRRATVEREMEL  
RHKNEMLRVETEARAKAERENADIIREQIRLKASEHRQTVLESIRTAGTLFGEGFRAF  
VTDRDKVTATVAGLTLLAVGVYSAKNATAVTGRFIEARLGKPSLVRETSRITVLEALRHP  
IQVSRRLSRPQDVLEGVVLSPSLEARVRDIAIATRNTKKNRGLYRHILLYGPPGTGKTL  
FAKKLALHSGMDYAIMTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFMDEADAF  
LKRKATEEISKDLRATLNAFLYHMGQHSNKFMLVLASNLPEQFDCAINSRIDVMVHFDLP  
QQEERERLVRHLFDNCVLKPATEGKRRLKLAQFDYGRKCSEVARLTEGMSGREIAQLAV  
SWQATAYASKDGVLTEAMMDACVQDAVQQYRQKMRWLKAEGPGRGVEHPLSGVQGETLT  
SWSLATDPSYPCLAGPCTFRICSWMGTLCPGPLSPRMSCGGGRPFPPGHPLL

>sp|P18846|ATF1\_HUMAN Cyclic AMP-dependent transcription factor ATF-1 OS=Homo sapiens  
GN=ATF1 PE=1 SV=2

MEDSHKSTSETAPQGSQVGAHISHIAQQVSSLSESEESQDSSDSIGSSQKAHGILAR  
RPSYRKILKDLSSSEDTRGRKGDGENSGVSAAVTSMVPTPIYQTSSGQYIAIAPNGALQL  
ASPGTDGVQGLQTLTMTNSGSTQQGTTILQYAQTSQGQILVPSNQVVVQTASGDMQTYQ  
IRTPSATSLPQTVVMTSPVTLTSQTTKTDQPLKREIRLMKNREAAARECRRKKKEYVKC  
LENRVAVLENQNKTLIEELKTLKDLYSNKSV

>sp|Q8N5I2|ARRD1\_HUMAN Arrestin domain-containing protein 1 OS=Homo sapiens GN=ARRDC1  
PE=1 SV=1

MGRVQLFEISLSHGRVVYSPGEPLAGTVRVRLGAPLPFRAIRVTCIGSCGVSNKANDTAW  
VVEEGYFNSSLADKGSPLAGEHSFPFQFLLPATAPTSFEGPFGKIVHQVRAAIHTPRF  
SKDHKCSLVFYILSPLNLNSIPDIEQPNVASATKKFSYKLVKTGSSVLTASTDLRGYVVG  
QALQLHADVENQSGKDTSPVVASLLQKVSYKAKRWIHDVRTIAEVEGAGVKAWRRAQWHE  
QILVPALPQSALPGCSLIHIDYYLQVSLKAPEATVTLPVFIGNIAVNHAPVSPRPGLGLP  
PGAPPLVVPSPAPPQEEAEAEAAAGGPHFLDPVFLSTKSHSQRQPLLATLSSVPGAPEPCP  
QDGSPASHPLHPPLCISTGATVPYFAEGSGGPVPTTSTLILPPEYSSWGYPEAPPSEYEQ  
SCGGVEPSLTPES

>sp|Q8WXJ9|ASB17\_HUMAN Ankyrin repeat and SOCS box protein 17 OS=Homo sapiens GN=ASB17  
PE=2 SV=2

MSKSTKLCKGTSCPRSNIFCNLLDKIVKRPSLQFLGQWGYHCYEPRIYRSLAKILRYVDL  
DGFDAALLTDYIAFVEKSGYRFEVSFNLDFTFTEICVNTILYWVFARKGNPDFVELLLKTKD  
YVQDRSCNLALIWRFTFPVYCPSPLSGITPLFYVAQTRQSNIFKILLQYGILEREKNPIN  
IVLTIVLYPSRVRVMVDRELADIHEDAKTCLVLCRVLSVISVKEIKTQLSLGRHPIISN  
WFDYIPSTRYKDPCELLHLCRLTIRNQLLTNNMLPDGIFSLLIPARLQNYLNLEI

>sp|Q9NWX5|ASB6\_HUMAN Ankyrin repeat and SOCS box protein 6 OS=Homo sapiens GN=ASB6 PE=1 SV=1

MPFLHGFRRIIIFEYQPLVDAILGSLGIQDPERQESLDRPSYVASEESRILVLTELLERKA  
HSPFYQEGVSNALLKMAELGLTRAADVLLRHGANLNFEDPVITYYTALHIAVLNRNPDMVE  
LLVHHGADVNRDRRIHESPLDLASEEPELPCQLRLDLGADVNAADKHGKTALLHALA  
SSDGVIHNTENIRLLLEGGADVKAATKDGDTVFTCIIFLLGETVGGDKKEEAQMINRFCF  
QVTRLLLAHGADPSECPAHESLTHICLSFKLHFPLLRFLLESGAAYNCSLHGASCWSGF  
HIIIFERLCSHPGCTEDESADLLRKAETVLDLMTNSQKLQLPENFDIHPVGS�AEKIQA  
LHFSRLRQLESYPPPLKHLCRVAIRLYLQWPVPDVVKVKALEPLDRLKWYLLSEHSGSVEDD  
I

>sp|Q8N9N2|ASCC1\_HUMAN Activating signal cointegrator 1 complex subunit 1 OS=Homo sapiens  
GN=ASCC1 PE=1 SV=1

MEVLRPQLIRIDGRNYRKNPVQEQTQHEEDEEDFYQGSMECADEPCDAYEVEQTPQGFR  
STLRAPSLLYNL IHLNTSNDCGFQKITLDCQNIYTWKSRHIVGKRGDTRKKIEMETKTSI  
SIPKPGQDGEIVITGQHRNGVISARTRIDVLLDTFRKQPFTHFLAFFLNEVEVQEGFLR  
FQEEVLAKCSMDHGVDSIFQNPKKLHLTIGMLVLLSEEEIQQTCEMPLQCKKEEFINDIS  
GGKPLEVEMAGIEYMNDPGMVDVLYAKVHMKDGSNRLQELVDRVLERFQASGLIVKEWN  
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>sp|Q9H1I8|ASCC2\_HUMAN Activating signal cointegrator 1 complex subunit 2 OS=Homo sapiens  
GN=ASCC2 PE=1 SV=3

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FVANDLDWLLALPHDKFWCQVIFDETQKCLDSYLRYVPRKFDEGVASAPEVDMQKRLH  
RSVFLTFLRMSTHKESKDHFI SPFAFGEILYNNFLFDIPKILDLCVLFKGKNSPLLQKMI  
GNIFTQQPSYYSDDLDETLPITILQVFSNQLQHCGLQGDGANTTPQKLEERGRLTPSDMPLL  
ELKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEAIPEMESAIAKKRRL  
DSKLLGDLWQLSHSRKKLMEIFHIIILNQICLLPILESSCDNIQGFIEEFLQIFSSLLQE  
KRFLRDYDALFPVAEDISLLQQASSVLDETRTAYILQAVESAWEGVDRRKATDAKDPSVI  
EEPNGEPNGVTVAEAVSQASSHPENSEEEECMGAAGVGPAMCGVELDSLISQVKDLLP  
DLGEGFILACLEYYHYDPEQVINNILEERLAPTLSQLDRNLDREMKPDPTLLTSRHNVF  
QNDEFDVFSRDSVDLSRVHKGKSTRKEENTRSLNDKRAVAAQRQRYEQYSVVVEEVPLQ  
PGESLPYHSVYYEYDDTYDGNQVGANDADSDDELISRRPFTIPQVLRITKVPREGQEED  
DDDEEDDADEEAPKPDHFVQDPAVLREKAEARRMAFLAKKGYRHDSSTAVAGSPRGHGQS  
RETTQERRKKEANKATRANHNRRTMADRKRSGMIPS

>sp|Q9NQ33|ASCL3\_HUMAN Achaete-scute homolog 3 OS=Homo sapiens GN=ASCL3 PE=2 SV=2

MDNRGNSSLPDKLPIFPDSARLPLTRSFYLEPMVTFHVHPEAPVSSPYSEELPRLPFPSD  
SLILGNYSFPCPFSFMPYPNRYGCEYSYGPAFTRKNERERQVRKCVNEGQAQLRHHL  
EEYLEKRLSKVETLRAAIKYINYLQSLLYPDKAETKNNPGKVSSMIATTSHHADPMFRIV

>sp|P78348|ASIC1\_HUMAN Acid-sensing ion channel 1 OS=Homo sapiens GN=ASIC1 PE=1 SV=3

MELKAEEEVGGVQPVSIQAFASSTLHGLAHIFS YERLSLKRALWALCFLGSLAVLLCV  
CTERVQYFYHHVTKLDEVAASQLTFPAVTL CNLNEFRFSQVSKNDLYHAGELLALLNN  
RYEIPDTQMADEKQLEILQDKANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGEVCS  
AEDFKVVFTRYGKCYTFNSGRDGRPRLKTMKGGTGNGLEIMLDIQQDEYLPVWGETDETS  
FEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVACQEQRLIYLPWPWGTC KAVTMDSDLD  
FFDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDQEY  
CVCMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI  
EQKKAYETIAGLLDIGGMGLFIGASILTVLELFDYAYEVIKHKLCRRGKCQKEAKRSSA  
DKGVALSLDDVKRHNPCESLRGHPAGMTYAANILPHHPARGTFEDFTC

>sp|Q96FT7|ASIC4\_HUMAN Acid-sensing ion channel 4 OS=Homo sapiens GN=ASIC4 PE=1 SV=2

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QHQCAGAAGSGSDSPSTSGPHPVPVLFPLALSLEEQLPPLPLGRAPGLLAREGQGREALA  
SPSSRGQMPIEIVCKIKFAEEDAKPKEKEAGDEQSLLGAVAPGAAPRD LATFASTSTLHG  
LGRACGPGPHGLRRTLWALALLTSLAAFLYQAAGLARGYLTRPHLVAMDPAAPVAGFP  
AVTLCNINRFRHSALSDADIFHLANLTGLPPKDRDGHRAAGLRYPEPDMVDILNRTGHQL  
ADMLKSCNFSGHHCSASNFVSVYTRYGKCYTFNADPRSSLPSRAGGMGSGLEIMLDIQQE  
EYLP IWRETNETSF EAGIRVQIHSQEEPPYIHQLGFGVSPGFQTFVSCQEQRLTYLPQPW  
GNCRAESELREPELQGYSAYSVSACRLRCEKEAVLQRCHCRMVHMPDSLGGGPEGPCFCP  
TPCNLTRYGKEISMVRIPNRGSARYLARKYNRNETYI RENFLVLDVFFEALTSEAMEQRA  
AYGLSALLGDLGGMGLFIGASILTLEILDYIYEVSWDRLKRVWRRPKTPLRTSTGGIS  
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>sp|Q43681|ASNA\_HUMAN ATPase ASNA1 OS=Homo sapiens GN=ASNA1 PE=1 SV=2

MAAGVAGWGVEAEFEADPDVEPLEPTLSNII EQRSWKWIFVGGKGGVGKTTSCSLAVQ  
LSKGRESVLIISTDPAHNISDAFDQKFSKVPTKVKG YDNLFAMEIDPSLGVAELPDEFFE  
EDNMLSMGKKMMQEAMSAFPGIDEAMSYAEVMRLVKGMNFSVVVFD TAPTGHTLRLNFP  
TIVERGLGRLMQIKNQISPFISQMCNMLGLGDMNADQLASKLEETLPVIRSVSEQFKDPE  
QTTFICVCIAEFLSLYETERLIQELAKCKIDTHNII VNQLVFPDPEKPKCMCEARHKIQA  
KYLDQMEDLYEDFHIVKLPLLPHVEVRGADKVNTFSALLLEPYKPPSAQ

>sp|Q6ICH7|ASPH2\_HUMAN Aspartate beta-hydroxylase domain-containing protein 2 OS=Homo sapiens GN=ASPHD2 PE=2 SV=1

MVWAPLGPPRTDCLTLLHTPSKDSPKMSLEWLVAWSWSDGLRDCIATGIQSVRDCDTTA  
VITVACLLVLFVWYCYHVGREQPRPYVSVNSLMQAADANGLQNGYVYCQSPECVRCTHNE  
GLNQKLYHNLQEYAKRYSWSGMGRIHKGIREQGRYLNSRPSIQKPEVFFLPDLPTTPYFS  
RDAQKHDVEVLERNFQTLCEFETLYKAFSNCSLPQGWMNSTPSGEWFTFYLVNQGVCV  
PRNCRKCPRTYRLGLSLRTCIGNNVFGNACISVLSPGTVITEHYGPTNIRIRCHLGLKTP  
NGCELVVGGEPCQWAEGRCLLFDDSF LHAAFHEGSAEDGPRVVFMDLWHPNVA AERQAL  
LDFIFAPGR

>sp|Q96KQ4|ASPP1\_HUMAN Apoptosis-stimulating of p53 protein 1 OS=Homo sapiens GN=PPP1R13B PE=1 SV=3

MMPMILTVFLSNNEQILTEVPITPETTCRDVVEFCKEPGE GSCHLAEVWRGNERPIPFDH  
MMYEHLQKWGPRREEVKFFLRHEDSPTENSEQGGRQTQE QRTQRNVINVPGEKRTENGVG  
NPRVELTSELQDMAARQQQIENQQMLVAKEQRLHFLKQQERRQQQSISENEKLQKLK  
ERVEAQENKLLKIRAMRGQVDYSKIMNGNLSAEIERFSAMFQEKKQEVQTAILRVDQLSQ  
QLEDLKKGKLNQFQSYNGKLTGPAAVELKRLYQELQIRNQLNQEQNSKLQQQKELLNKRN



MEVAMMDKRISLRERLYGKKIQLNRVNGTSSPQSPLSTSGRVAAGPYIQVPSAGSFPV  
LGDPKPKQSLSIASNAAHGRSKSANDGNWPTLKQNSSSSVKPVQVAGADWKDPSVEGSVK  
QGTVSSQPVPFSALGPTEKPGIEIGKVPPP IPGVGKQLPPSYGTYPSTPLGPGSTSSLE  
RRKEGSLPRPSAGLPSRQRPTLLPATGSTPQPGSSQIQQRISVPPSPTYPPAGPPAFPA  
GDSKPELPLTVAIRPFLADKGSRPQSPRKGPTVNSSSIYSMYLQQATPPKNYQPAHSA  
LNKSVKAVYGKPVLPSPGSTSPSPLPFLHGSLSTGTPQPQPPSESTEKEPEQDGAAPADG  
STVESLPRPLSPTKLTPIVHSPLRYQSDADLEALRRKLANAPRPLKKRSSITEPEGPGGP  
NIQKLLYQRFNTLAGGMEGTPFYQPSPSQDFMGTADVDNGNTNANGNLEELPPAQPTAP  
LPAEPAPSSDANDNELPSPEPEELICPQTHQTAEPADNNNNVATVPTTEQIPSPVAEA  
PSPGEEQVPPAPLPPASHPPATSTNKRTNLKKPNSERTGHGLRVRFNPLALLLDASLEGE  
FDLVQRIIYEVEDPSKPNDEGITPLHNAVCAGHHHIVKFLDFGVNVNAADSDGWTPLHC  
AASCNSVHLCKQLVESGAAIFASTISDIETAADKCEEMEEGYIQCSQFLYGVQEKLGVMN  
KGVAYALWDYEAQNSDELSFHEGDALTILRRKDESETEWWWARLGDREGYVPKNLLGLYP  
RIKPRQRTLA

>sp|O14525|ASTN1\_HUMAN Astrotactin-1 OS=Homo sapiens GN=ASTN1 PE=2 SV=3

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GYEYDITDLRHHLQRECMNGGEDFASQVTRTLDLQGCNEKSGMDLTPGSDNAKLSLMNK  
YKDNIATSPVDSNHQQATLLSHTSSQKRINNKARAGSAFLNPEGDSGTEAENDPQLT  
FYTDPSRSRRRSRVGSPRSPVNKTTLTISITSCVIGLVCSSHVNCPVVKITLHVPEHL  
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VLLDSFGPVRDCSKDNGGCSKNFRCISDRKLDSTGCVCPGLSPMKDSSGCYDRHIGVDC  
SDGFNGGCEQLCLQQMAPFPDDPTLYNLMFCGCIEDYKLGVDGRSCQLITETCEGSDC  
GESRELPMNQTLFGEMFFGYNNHSKEVAAGQVLKGTFRQNNFARGLDQQLPDGLVVATVP  
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DTPAEPVLLLEVTKAAPIYELVTNNQTRLLQEATMSSLWCSGTGDVIEDWCRCDDSTAFGA  
DGLPTCAPLPQPVLRLSTVHEPSSTLVVLEWEHSEPPIGVQIVDYLLRQEKVTDRMDHSK  
VETETVLSFVDDIISGAKSPCAMPSPQVPDKQLTTISLIIRCLEPDTIYMFTLWGVNDTGR  
RSRPSDVIVKTPCPVDDVKAQEIADKIYNLFNGYTSKGEQQTAYNTLLDLGSPTLHRVL  
YHYNQHYESFGEFTWRCEDELGPRKAGLILSQLGDLSSWCNGLLQEPKISLRRSSLKYL  
CRYSEIKPYGLDWAELSRDLRKTCEEQTLIPYNDYGDSKEI

>sp|Q9NVM9|ASUN\_HUMAN Protein asunder homolog OS=Homo sapiens GN=ASUN PE=1 SV=2

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SILHGLVAAVETLCKITEYQHEARTLLMENAERVGNRGRIICITNAKSDSHVRMLEDCVQ  
ETIHEHNKLAANSDHLMQIQKCELVLHTYTPVGEDSLVSDRSKKELSPVLTSEVHVRAG  
RHLATKLNILVQQHFDLASTTITNIPMKEEQHANTSANYDVELLHHKDAHVDFLKSGDSH  
LGGGSREGSFKETITLKWCTPRTNNIELHYCTGAYRISPVDVNSRPSSCLTNFLLNGRSV

LLEQPRKSGSKVISHMLSSHGGEIFLHVLSSSRSILEDPPSISEGCGGRVTDYRITDFGE  
FMRENRLTPFLDPYKIDGSLEVPLERAKDQLEKHTRYWPMIISQTTIFNMQAVVPLASV  
IVKESLTEEDVLNCQKTIYNLVDMERKNDPLPISTVGTRGKGPKRDEQYRIMWNELETLV  
RAHINNSEKHQRVLECLMACRSKPPEEEERKKRGRKREDKEDKSEKAVKDYEQEKSWQDS  
ERLKGILERGKEELAEAEI IKDSPDSPEPPNKKPLVEMDETPQVEKSKGPVSLLSLWSNR  
INTANSRKHQEFAGRLNSVNNRAELYQHLKEENGMEETTENGKASRQ

>sp|Q8IXJ9|ASXL1\_HUMAN Putative Polycomb group protein ASXL1 OS=Homo sapiens GN=ASXL1  
PE=1 SV=3

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GENDVSLDETSSNASCSTESQSRPLSNPRDSYRASSQANKQKKKTGVMLPRVLTPLKVN  
GAHVESASGFGCHADGESGSPSSSSSGSLALGSAAIRGQAEVTQDPAPLLRGFRKPATG  
QMKRNRGEEIDFETPGSILVNTNLRALINSRTFHALPSHFQQQLLFLLEVDQRQVGTGDL  
LRLSSSALNNEFFTHAAQSWRERLADGEFTHEMQVRIRQEMEKEKKVEQWKEKFFEDYYG  
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RRNL YKKQESQAGVAKDAKSVASDVPLYKDGEAKTDPAGLSSPHLPGTSSAAPDLEGPE  
FPVESVASRIQAEPDNLARASAPDRIPSLPQETVDQEPKDQKRKSFEQAASASFPEKKP  
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TESSCRGWTGARTLADIKARALQVRGARGHHCHREAATTAIGGGGGPGGGGGGATDEGGG  
RGSSSGDGGEACGHPEPRGGPSTPGKCTSDLQRTQLLPPYPLNGEHTQAGTAMSRARRED  
LPSLRKEESCLLQRTAVGLTDGLGDASQLPVAPTGDQPCQALPLLSSQTSVAERLVEQPQ  
LHPDVRTECESGTTSWESDDEEQGPTVPADNGPILSLVGDDTLEKGTGQALDSHPTMKDP  
VNVTPSSTPESSPTDCLQNRAFDELGLGGSCPPMRESDRQENLKTALVSNSSLHWIP  
IPSNDEVVKQPKPESREHIPSVEPQVGEWEKAAPTPPALPGDLTAEEGLDPLDSLTSW  
TVPSRGGSDSNGSYCQVDIEKLKINGDSEALSPHGESTDTASDFEGHLTEDSSEADTRE  
AAVTKGSSVDKDEKPNWNQSAPLSKVNGDMRLVTRTDGMVAPQSWVSRVCAVRQKIPDSL  
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DQSHGSLRMGSLHGLGKNSGMVDGSSPSSLRALKEPLLPDSCETGTGLARIEATQAPGAP  
QKNCKAVPSFDSLHPVTNPITSSRKLEEMDSKEQFSSFSCEDQKEVRAMSQDSNSNAAPG  
KSPGDLTTSRTPRFSSPNVISFGPEQTGRALGDQSNVTGQGKKLFGSGNVAATLQRPRPA  
DPMPLPAEIPPVFSPGKLGSTNSMSGGVQTPREDWAPKPHAFVGSVKNEKTFVGGPLKA  
NAENRKATGHSPELVGHLEGPVFVMDLPFWKLPREPGLSEPLEPSSLSQLSIKQAF  
YGKLSKLQLSSTSFNYSSTPTFPKGLAGSVVQLSHKANFGASHSASLSLQMFTDSSTVE  
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>sp|P54707|AT12A\_HUMAN Potassium-transporting ATPase alpha chain 2 OS=Homo sapiens  
GN=ATP12A PE=1 SV=3

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VGAFLCWIAYGIIQYSSDKSASLNNVYLGCVLGLVVILTGIFAYYQEAKESTNIMSSFNMI  
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PRSSEFTHENPLETKNICFYSTTCLEGTVTGMVINTGDRITIIIGHIASLASGVGNEKTPIA  
IEIEHFVHIVAGVAVSIGILFFIIAVSLKYQVLDIIIFLIGIIVANVPEGLLATVTVTSL  
LTAKRMAKKNCLVKNEAVETLGSTSIICSDKTGTLTQNRMTVAHLWFDNQIFVADTSED  
HSNQVFDQSSRTWASLSKIITLCNRAEFKPGQENVPIMKKAVIDGASETALLKFSEVILG

DVMEIRKRNKVAEIPFNSTNKFQLSIHEMDDPHGKRFLMVMKGAPERILEKCSTIMING  
EEHPLDKSTAKTFHTAYMELGGLGERVLGFCCHLYLPADEFPEYTSFDIDAMNFPSNLCF  
VGLLSMIDPPRSTVPAVTKCRSAGIKVIMVTDGHPITAKAIAKSVGIIISANSETVEDIA  
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QRQDAVVAVTGDGVNDSPALKKADIGIAMGIAGSDAAKNAADMVLLDDNFASIVTGVEEG  
RLIFDNLKKTIAYSLTKNIAELCPFLIYIIIVGLPLPIGTITILFIDLGTDIIPSIALAYE  
KAESDIMNRKPRHKNKDRLVNQLAVYSYLHIGLMQALGAFLVYFTVYAQEGFLPRTLIN  
LRVEWEKDYVNDLKDSYGQEWTRYQREYLEWTGYTAFFVGLVQQIADLIIRKTRRNSIF  
QQGLFRNKVIWVGITSQIIIGLILSYGLGSVTALSFTMLRAQYWFVAVPHAILIWVYDEV  
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>sp|Q13733|AT1A4\_HUMAN Sodium/potassium-transporting ATPase subunit alpha-4 OS=Homo sapiens GN=ATP1A4 PE=1 SV=3

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VAYSIIYFNEEPTKDNLYLSIVLSVVVIVTGCFSYQEAKSSKIMESFKNMVPQQALVI  
RGGEKMQINVQEVVLGDLVEIKGGDRVPADLRLISAQGCKVDNSSLTGESEPPSRSPDFT  
HENPLETRNICFFSTNCVEGTARGIVIAATGDSTVMGRIASLTSGLAVGGQTPIAAEIEHFI  
HLITVVAVFLGVTFFALSLLLGYGWLEAIIFLIGIIVANVPEGLLATVTVCLTLTAKRMA  
RKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMFDMTVYEADTTEEQTGKTFT  
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KNPKVAEIPFNSTNKYQMSIHLREDSSQTHVLMMKGAPERILEFCSTFLLNGQEYSMNDE  
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PRAAVPDVSKCRSAGIKVIMVTDGHPITAKAIAKGVGIISEGTETAEVAARLKIPISK  
VDASAAKAIVVHGAELKDIQSKQLDQILQNHPEIVFARTSPQQKLIIVEGCQRLGAVVAV  
TGDGVNDSPALKKADIGIAMGISGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNLKK  
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LPRNPKTDLNVNHLIGMAYGQIGMIQALAGFFTYFVILAENGFRPVDLLGIRLHWEDKY  
LNDLED SYGQWTYEQRKVVEFTCQTAFFVTIVVVQWADLIISKTRRNSLFQQGMRNKVL  
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GWVERETYY

>sp|P20020|AT2B1\_HUMAN Plasma membrane calcium-transporting ATPase 1 OS=Homo sapiens GN=ATP2B1 PE=1 SV=3

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FRGLQSRIEQEQKFTVIRGGQVIQIPVADITVG DIAQVKYGDLLPADGILIQGNDLKIDE  
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KDEKKKEKKNKKQDGA IENRNKAKAQDGAAMEMQPLKSEEGDGDEKDKKANLPKKEKS  
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TMNRMTVVQAYINEKHKKVPEPEAIPPNILSYLVTGISVNCAYTSKILPPEKEGGLPRH  
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KGASEIILKKCFKILSANGEAKVFRPRDRDDIVKTVIEPMASEGLRTICLAFRDFPAGEP  
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KCGILHPGEDFLCLEGKDFNRRIRNEKGEIEQERIDKIWPKLRVLARSSPTDKHTLVKGI  
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AVMWGRNVYDSISKFLQFLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTLASL  
ALATEPPTESLLLRKPYGRNKPLISRTMMKNILGHAFYQLVVVFTLLFAGEKFFDIDSGR  
NAPLHAPPSEHYTIVFNTFVLMQLFNEINARKIHGERNVFEGIFNNAIFCTIVLGTFFVQ  
IIIVQFGGKPFSCSELSIEQWLSIFLGMGTLLWGQLISTIPTSRKFLKEAGHGTQKEE  
IPEEELAEDVEEIDHAERELRRGQILWFRGLNRIQTQMDVVNAFQSGSSIQGALRRQPSI  
ASQHHVDVTNISTPTHIRVVNAFRSSLYEGLEKPESRSSIHNFMTHPEFRIEDSEPHIPLI  
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>sp|075185|AT2C2\_HUMAN Calcium-transporting ATPase type 2C member 2 OS=Homo sapiens  
GN=ATP2C2 PE=1 SV=2

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LLARELVPGDVVSLSIGDRIPADIRLTEVTDLLVDESSFTGEAEPCSKTDSPLTGGGDLT  
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VKKLPIVETLGCCSVLCSDKTGTLTANEMTVTQLVTSGLRAEVSGVGYDGGQTVCLLPS  
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ALQESGAIVAMTGDGVNDAVALKSADIGIAMGQTGTDVSKEAANMILVDDDFSAIMNAVE  
EGKGIFYNIKNFVRFLSTSISALSLITLSTVFNLPSPNAMQILWINIIMDGPPAQSLG  
VEPVDKDAFRQPPRSVRDTILSRALILKILMSAAIIISGTLFIFWKEMPEDRASTPRTTT  
MTFTCFVFFDLFNALTCRSQTKLIFEIGFLRNHMFVSVLGSILGQLAVIYIPPLQRVFQ  
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>sp|Q5TC04|ATAS1\_HUMAN Putative uncharacterized protein ATP1A1-AS1 OS=Homo sapiens  
GN=ATP1A1-AS1 PE=5 SV=1

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>sp|Q9ULI0|ATD2B\_HUMAN ATPase family AAA domain-containing protein 2B OS=Homo sapiens  
GN=ATAD2B PE=1 SV=3

MVNTRKSSRLRLGSKSPGPGPGAGAEPGATGGSSHFISSRTRSSKTRAASCPAAKAGG  
SGGAGVTLDEARKVEVDGSLSDSHVSPPAKRTLKQPDVCKDKSKSRSTGQREEWNLSTG  
QARLTSQPGATLPNGHSGLSLRSHPLRGEKKGDGLSCINGDMEVRKSCRSRKNRFESVN  
QSLLFDQLVNSTAEAVLQEMDNINIRQNRSGEVERLRMWTDTFENMDMYSRVKRRRKS  
LRRNSYGIQNHHEVSTEGEEESQEEDGDIEVEEAEGEENDRPYNLRQRKTVDRYQAPPI  
VPAHQKKRENTLFDIHRSPARRSHIRKKHAIHSSDTTSSDEERFERRKSKSMARARNRC  
LPMNFRADLASGILRERVKGASLADVDPMNIDKSVRFDSIGGLSHHIIHALKEMVVFP  
LYPEIFEKFKIQPPRGCLFYGPPGTGKTLVARALANECQGDKKVAFFMRKGADCLSKWV  
GESERQLRLLFDQAYLMRPSIIFFDEIDGLAPVRSSRQDQIHSSIVSTLLALMDGLDNRG  
EIVVIGATNRLDSIDPALRRPGRFDREFLNLDPQKARKHILQIHTRDWNPKLSDAFLGE  
LAEKCVGYCGADIKALCTEAALIALRRRYPQIYASSHKLQLDVSSIVLSAQDFYHAMQNI

VPASQRAVMSSGHALSPIIRPLLEERSFNNILAVLQKVFPHAEISQSDKKEDIETLILEDSE  
EDENALSIFETNCHSGSPKKQSSSAAIHKPYLHFTMSPYHQPTSYRPRLLLSGERGSGQT  
SHLAPALLHTLERFSVHRLDLPALYSVSAKTPEESCAQIFREARRTPPSIVYMPHIGDWW  
EAVSETVRATFLTLLQDIPSFSPIFLLSTSETMYSELPEEVKCIFRIQYEEVLYIQRPIE  
EDRRKFFQELILNQASMAPPRRKHAALCAMEVLPLALPSPPRQLSESEKSRMEDQEENTL  
RELRLFLRDVTKRLATDKRFNIFSKPVDIEEVSDYLEVKEPMDLSTVITKIDKHNYLTA  
KDFLKIDILICSNALEYNPKDPGDKIIRHRACKLKDTHAIIAAELDPEFNKLCEEIKE  
ARIKRGLSVTSEQINPHSTGARKTETRVEEAFRHKQRNPMDVWHNSANKCAFRVRRKSRR  
RSQWGKGIKKRKVNNLKKDEEDTKFADYENHTEDRKLENGEFEVSTDCHEENGEETGD  
LSMTNDESSCDIMDLQGGRLNNGAGTKENFASTEESSNESLLVNSSSSLNPEQTSRKE  
TFLKGNCLEASTDSFEGIPVLECNQNGKLEVVSFCDSGDKCSSEQKILLEDQSKEKPET  
STENHGDDLEKLEALECSNNEKLEPGSDVEVKDAELDEGASKVKKYRKLILEQAKTTSL  
ELVPEEPSEPVPPLIVDRERLKKLLDLLVDKSNLAVDQLERLYSLLSQCIYRHRKDYDK  
SQLVEEMERTVHMFETFL

>sp|P15336|ATF2\_HUMAN Cyclic AMP-dependent transcription factor ATF-2 OS=Homo sapiens  
GN=ATF2 PE=1 SV=4

MKFKLHVNSARQYKDLWNMSDDKPFLLCTAPGCGQRFTNEDHLAVHKHKHEMTLKFGPARN  
DSVIVADQTPTPTRFLKNCEEVGLFNELASPFENEFFKASEDDIKMPLDLSPLATPIIR  
SKIEEPSVVETTHQDSPLPHPESTTSDEKEVPLAQTAQPTSAIVRPASLQVPNVLLTSSD  
SSVIIQQAVPSPTSSTVITQAPSSNRPIVPVPGPFLLLHLPNGQTMPVAIPASITSSNV  
HVPAAVPLVRPVTMVPSVPGIPGPSSQPVQSEAKMRLKAALTQQHPPVTNGDTVKGHGS  
GLVRTQSEESRPQSLQQPATSTTETPASPAHTTPQTQSTSGRRRRAANEDPDEKRRKFLE  
RNRAAASRCRQKRKVWVQSLEKKAEDLSSLNGQLQSEVTLLRNEVAQLKQLLLAHKDCPV  
TAMQKKSGYHTADKDDSEDISVPSSPHTEAIQHSSVSTSNVGSSTSKAEAVATSVLTQM  
ADQSTEPALSQIVMAPSSQSQPSGS

>sp|Q86TH1|ATL2\_HUMAN ADAMTS-like protein 2 OS=Homo sapiens GN=ADAMTSL2 PE=1 SV=1

MDGRWQCSCWAWFLLVAVVAGDVTSTGSTDNSPTSNSLEGGTDATAFWWGEWTKWTACS  
RSCGGGVTSQERHCLQQRRKSVPGPNRTCTGTSKRYQLCRVQECPPDGRSFFREEQCVSF  
NSHVYNGRTHQWKPLYPDDYVHISSKPCDLHCTVDGQRQLMVPARDGTSCKLTDLRGVC  
VSGKCEPIGCDGVLFSTHTLDKCGICQGDGSSCTHVTGNYRKGNHGLYSLVTHIPAGAR  
DIQIVERKKSADVLALADEAGYFFNGNYKVDSPKNFNIAGTVVKYRRPMDVYETGIEYI  
VAQGPTNQGLNMVWNQNGKSPSITFEYTLQPPHESRPQPIYYGFSESAESQGLDGAGL  
MGFVPHNGSLYGQASSERLGLDNRLFQHPGLDMELGPSQGGQETNEVCEQAGGGACEGPPR  
GKGFRDRNVTGTPLTGDKDDEEVDTHFASQEFFSANAIQDQLLGAGSDLKDFTLNETVNS  
IFAQGAPRSSLAESFFVDYEENEGAGPYLLNGSYLELSSDRVANSSSEAPFPNVSTSLT  
SAGNRTHKARTRPKARKQGVSPADMYRWKLSSEPCSATCTTGVM SAYAMCVRYDGEVD  
DSYCDALTRPEPVHEFCAGRECQPRWETSSWSECSRTCGEQYQFRVVRWCWMLSPGFDSS  
VYSDLCEAAEA VRPEERKTCRNPACGPQWEMSEWSECTAKCGERSVVTDIRCSEDEKLC  
DPNTRPVGEKNTGPPCDRQWTVSDWGPCSGSCGQGRIRHVYCKTSDGRVVPESQCQME  
TKPLAIHPCGDKNCPAHWLAQDWERCNTTCGRGVKKRLVLCMELANGKPQTRSGPECGLA  
KKPPEESTCFERPCFKWYTPWSECTKTCGVGVRMRDVKCYQGTDIVRGCDPLVKPVGRQ  
ACDLQPCPTEPPDDSCDQDQPGTNCALAIKVNLCGHWYYSKACCRSCRPPHS

>sp|P51689|ARSD\_HUMAN Arylsulfatase D OS=Homo sapiens GN=ARSD PE=1 SV=2

MRSAARRGRAAPAARDSLPVLLFLCLLLKTCEPKTANAFKPNILLIMADDLGTGDLGCYG

NNTLRTPNIDQLAEEGVRLTQHLLAAAPLCTPSRAAFLTGRHSFRSGMDASNGYRALQWNA  
GSGGLPENETTFARILQQHGYATGLIGKWHQGVNCASRGDCHHPLNHGFDYFYGMPFTL  
TNDCDPGRPEVDAALRAQLWGYTQFLALGILTLAAGQTCGFFSVSARAVTGMAGVGCLF  
FISWYSSFGFVRRWNCILMRNHDVTEQPMVLEKTASMLKEAVSYIERHKHGPFLFLSL  
LHVHIPLVTTS AFLGKSQHGLYGDNVEEMDWLIGKVLNAIEDNGLKNSTFTYFTSDHGGH  
LEARDGHSQ LGGWNGIYKGGKMGWEGGIRVPGIFHWPGVLPAGRVIGEPTSLMDVFPT  
VVQLVGGEVPPQDRVIDGHSVPLQLGAEARS AHEFLFHYCGQHLHAARWHQKDSGSVWKV  
HYTTPQFHPEGAGACYGRGVCPSCGEGVTHHRPPLFDLSRDPSEARPLTPDSEPLYHAV  
IARVGA AVSEHRQTLSPVPQQFMSNILWKPWLQPCCGHFPFCSCHEGDGTP

>sp|Q5FYA8|ARSH\_HUMAN Arylsulfatase H OS=Homo sapiens GN=ARSH PE=2 SV=1

MTRNARNPIVLLMADDLGVGDLCCYGNN SVSTPNIDRLASEGVRLTQHLLAAASMCTPSRA  
AFLTGRYP IIRSGMV SAYNLNRAFTWLGGSGGLPTNETTFAKLLQHRGYRTGLIGKWHGL  
SCASRNDCYHPLNHGFHYFYGVFPGLSDCQASKTPELHRWLRIKLWISTVALALVPFL  
LLIPKFARWFSVPWKVIFV FALLAFLFTSWYSSYGFTRRWNCILMRNHEIIQQPMKEEK  
VASMLKEALAFIERYKREPFLFFSFLHVHTPLISKKKFVGRSKYGRYGDNVEEMDMV  
GKILDALDQERLANHTLVYFTSDNGGHLEPLDGAVQLGGWNGIYKGGKMGWEGGIRVP  
GIFRWPSVLEAGRVINEPTSLMDIYPTLSYIGGGILSQDRVIDGQNLMPLEGRASHSDH  
EFLFHYCGVYLHTVRWHQKDCATVWKAHYVTPKFYPEGTGACYGSGICSCSGDVTYHDP  
LLFDISRDPSEALPLNP DNEPLFDSV IKKMEAAIREHRRTLTPVPQQFSVFNTIWKPWLQ  
PCCGTFPFCGCDKEDDILMAP

>sp|Q5FYB1|ARSI\_HUMAN Arylsulfatase I OS=Homo sapiens GN=ARSI PE=1 SV=1

MHTLTGFSLVSLLSFGYLSWDWAKPSFVADGPGEAGEQPSAAPPQPHIIFILTDDQGYH  
DVGYHGSDIETPTLDR LAAGVKLENYYIQICTPSRSQLLTGRYQIHTGLQHSIIRPQQ  
PNCLPLDQVTL PQLQEAGYSTH MVGKWHLGFYRKECLPTRRGFDFTLGS LTGNVDYYTY  
DNCDGPGVCGFDLHEGENVAWGLSGQYSTMLYAQRASHILASHSPQRPLFLYVAFQAVHT  
PLQSPRELYRYRTMG NVARRKYAAMVTCMDEAVRNITWALKRYGFYNNSVIIFSSDNGG  
QTFSGGSNWPLRGRKGT YWEGGVRGLGFVHSPLLKRKQRTSRALMHITDWYPTLVGLAGG  
TTSAADGLDGYDVWPAISEGRASPRTEILHNIDPLYNHAQHGSLEGGFGIWNTAVQA AIR  
VGEWKLLTGDPGYGDWIPPQT LATFPGSWWNLERMASVRQAVWLFNISADPYEREDLAGQ  
RPDVVRTLLARLA EYNRTAIPVRYPAENPRAHPDFNGGAWGPWASDEEEEEEEGRARSFS  
RGRKKKKCKICKLRSFFRKLNTRLMSQRI

>sp|Q9ULH1|ASAP1\_HUMAN Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1 OS=Homo sapiens GN=ASAP1 PE=1 SV=4

MRSSASRLSSFSSRDSLWNRMPDQISVSEFIAETTEDYNSPTTSSFTTRLHNCRNVTLL  
EEALDQDR TALQVKKS VKAIYNSGQDHVQNEENYAQVLDKFGSNFLSRDNPDLGTAFVK  
FSTLTKE LSTLLKNLLQGLSHNVIFTLSLLKGD LKGVKGD LKKPFDKAWKDYETKFTKI  
EKEKREHAKQHGMIRTEITGAEIAEEME KERRLFQLQMCEYL IKVNEIKTKKGVDLLQNL  
IKYYHAQC NFFQDGLKTADKLQYIEKLAADLYNIKQTQDEEKKQLTALRDLIKSSLQLD  
QKEDSQRGGYSMHQLQGNKEYGSEKKGYLLKKS DGIRKVVWQRRKCSVKNGILTISHAT  
SNRQPAKLNL TCQVKPNAEDKKSFDLISHNRTYHFQAED EQDYVAWISVLTNSKEEALT  
MAFRGEQSAGENSLEDLTKAIIEDVQRLPGNDICDCGSSEPTWLSTNLGILTCIECSGI  
HREMGVHISRIQSLELDKLG TSELLAKNVGNNSFNDIMEANLPSPSPKPTPSSDMTVRK  
EYITAKYVDHRFSRKT CSTSSAKNELLEAIKSRDLLALIQVYAEGVELMEPLLEPGQEL  
GETALHLAVRTADQTS LHLVDFLVQNCGNLDKQTALGNTVLHYCSMYSKPECLKLLLRSK

PTVDIVNQAGETALDIAKRLKATQCEDLLSQAKSGKFNPHVHVEYEWNLQEEIDESDDD  
LDDKPSPIKKERSPRPQSFCSSSISPQDKLALPGFSTPRDKQRLSYGAFTNQIFVSTST  
DSPTSPTTEAPPLPRNAGKGTPGPPSTLPLSTQTSSGSSTLSKKRPPPPPGHKRTLSD  
PPSPLPHGPPNKGAVPWGNDGGPSSSSKTTNKFEGLSQQSSTSSAKTALGPRVLPKLPQK  
VALRKTDHLSLDKATIPPEIFQKSSQLAELPQKPPPGDLPPKPTELAPKQIGDLPPKPG  
ELPPKPQLGDLPPKPQLSDLPPKPMKDLPPKPQLGDLLAKSQTGDVSPKAQQPSEVTLK  
SHPLDLSPNVQSRDAIQKQASEDSNDLTPTLPETPVPLPRKINTGKNKVRVKTIYDCQA  
DNDDELTFIGEVIIVTGEEDQEWIWIGHIEGQPERKGVFPVSFVHILSD

>sp|Q8WXI3|ASB10\_HUMAN Ankyrin repeat and SOCS box protein 10 OS=Homo sapiens GN=ASB10  
PE=1 SV=2

MLMSWSPEECKGQGEPLDDRHPLCARLVEKPSRGSEEHLKSGPGPIVTRTASGPALAFWQ  
AVLAGDVGCVSRILADSSTGLAPDSVFDTSDFPERWRDFRNFIRALRLWSLTYYYEELTTPL  
HVAASRGHTEVLRLLLRRRARPDSAPGGRTALHEACAAGHTACVHVLLVAGADPNIAQDQ  
GKRPLHLCRPGTLECAELLLRFGARVDGRSEEEETPLHVAARLGHVELADLLRRGAC  
PDARNAEGWTPLLAACDVRCQSITDAEATTARCLQLCSLLSAGADADAADQDKRPLHL  
ACRRGHAAVVELLSCGVSANTMDYGGHTPLHCALQGPAALAQSPEHVVRALLNHGAVR  
VWPGALPKVLERWSTCPRTIEVLMTYSVVQLPEEAVGLVTPETLQKHQRFYSSLFALVR  
QPRSLQHLSRCALRSHLEGLPQALPRLPLPRLRLRYLQLDFEGVLY

>sp|Q96NS5|ASB16\_HUMAN Ankyrin repeat and SOCS box protein 16 OS=Homo sapiens GN=ASB16  
PE=1 SV=2

MARETFPFTSSMLRSLRLQQEWLEWEDRRRAAAQCRSRRCPPSPRARLTRPHRSCRDP  
VHQUALFSGNLQQVQALFQDEEAANMIVETVSNQLAWSAEQGFVWLTPTKTQTAPLAIATA  
RGYTDCARHLIRQGAELDARVGGRAALHEACARAQFDCVRLLLTFGAKANVLTTEGTTPL  
HLCTIPESLQCAKLLLEAGATVNLAAGESQETPLHVAARGLQHVALLYEHGADVGLRT  
SQGETALNTACAGAEQPGSCRRHQAAARRLLEAGADARAAGRKRHTPLHNACANGCGGLA  
ELLLRYGARAEPNGAGHTPMDCALQAVQDSPNWEPEVLFAALLDYGAQVVRPEMLKHCA  
NFPRALEVLLNAYPCVPSCETWVEAVLPWLKEHEAFYSSALCMVNQPRQLQHRLARLAVR  
ARLGSRRCRQGATRLPLPPLLRDYLLLRVEGCIQ

>sp|Q6ZVZ8|ASB18\_HUMAN Ankyrin repeat and SOCS box protein 18 OS=Homo sapiens GN=ASB18  
PE=2 SV=2

MSNSDYLPDYPLNSDLVKRLKSALDAKDEERVDRDLICTEITPVDVAVIELANDDWMKDPSA  
QLPTGMLLGDLHLKPLMDQFFQDANVVFEINKDEMEWQVKSPATFGLSGLWTLEYKREL  
TTPLCIAAAHGHTACVRHLLGRGADPDASPGGRGALHEACLGHTACVRLLQHRADPDL  
LSAEGLAPLHLCRTAASLGCAQALLEHGASVQRVGGTGRDTPHVAARGLDEHARLYLG  
RGAHVDARNGRGETALSAACGAARRPDEHGRCLRLCALLRRGAEDARDEDERSPLHKA  
CGHASHSLARLLLRHGADAGALDYGGASPLGRVLQTASCALQASPQRTVQALLNHGSPTV  
WPDAFPKVLKTCASVPAVIEVLNFSYPQLCLSESWKEVPEEVFQMHKPFYQSLFALALT  
PRCLQHLCRCALRRLFGKRCFDLIPLPLPKPLQNYLLLEPQGV LH

>sp|Q96Q27|ASB2\_HUMAN Ankyrin repeat and SOCS box protein 2 OS=Homo sapiens GN=ASB2 PE=1  
SV=1

MTRFSYAEYFSLFHSCSAPSRSTAPPESSPARAPMGLFQGVMMKYSSSLFKTSQLAPADP  
LIKAIKDGDEEALKMTMIKEGKNLAEPNKEGWLPHEAAYYGQVGLKVLQRAYPGTIDQR  
TLQEETAVYLATCRGHLDCLLSLLQAGAEPDISNKSRETPLYKACERKNAEAVKILVQHN  
ADTNHRCNRGWTALHESVSRNDLEVMQILVSGGAKVESKNAYGITPLFVAAQSGGLEALR

FLAKYGADINTQASDNASALYEACKNEHEEVVEFLLSQGADANKTNKDGLPLHIASKKG  
NYRIVQMLLPVTSRTRIRRGVSPLHLAAERNHDEVLEALLSARFDVNTPLAPERARLYE  
DRRSSALYFAVNNNNVYATELLQHGADPNRDVISPLLVAIRHGCLRTMQLLLDHGAND  
AYIATHPTAFPATIMFAMKCLSLKFLMDLGCDGEPFSCLYGNPHPPAPQPSSRFNDA  
PAADKEPSVVQFCEFVSAPEVSRWAGPIIDVLLDYVGNVQLCSRLKEHIDSFEDWAVIKE  
KAEPPLAHLCLRLVRKAIGKYRIKLLDTLPLPGRLIRYLKYENTQ

>sp|P50553|ASCL1\_HUMAN Achaete-scute homolog 1 OS=Homo sapiens GN=ASCL1 PE=1 SV=2  
MESSAKMESGGAGQPPQPPQPPFLPPAACFFATAAAAAAAAAAAAAQSAQQQQQQQQQQ  
QQAPQLRPAADGQPSGGGHKSAPKQVKRQRSSPELMRCKRRLNFSGFGYSLPQQQPAAV  
ARRNERERNRVKLVNLGFATLREHVPNGAANKKMSKVETLRSAYEYIRALQQLLDEHDAV  
SAAFQAGVLSPTISPNSNDLNSMAGSPVSSYSSDEGSYDPLSPEEQELLDFTNWF

>sp|Q7RTU5|ASCL5\_HUMAN Achaete-scute homolog 5 OS=Homo sapiens GN=ASCL5 PE=3 SV=2  
MPMGAAERGAGPQSSAAPWAGSEKAAKRGPSKSWYPRAAASDVTCTGGDGADPKPGPFG  
GGLALGPAPRGTMMNNFCRALVDRRPLGPPSCMQLGVMPPPRQAPLPPAEPLGNVPFLLY  
PGPAEPPYYDAYAGVPYVFPFGAFGVYEPFEPAFIQKRNERERQVKCVNEGVARLRG  
HLPGALAEKRLSKVETLRAAIRYIKYLQELLSSAPDGSTPPASRGLPGTGPCPAPPATPR  
PDRPGDGEARPSSSLVPESSESSCFSPSPFLESEESWH

>sp|Q9ULZ3|ASC\_HUMAN Apoptosis-associated speck-like protein containing a CARD OS=Homo sapiens GN=PYCARD PE=1 SV=2  
MGRARDAILDALENLTAEELKKFKLKLSSVPLREGYGRIPRGALLSMDALDLTDKLVSYF  
LETYGAELETANVLRDMGLQEMAGQLQAATHQGSAAAPAGIQAPPQSAKPLHFIHQHRA  
ALIARVTNVEWLLDALYGKVLTDQYQAVRAEPTNPSKMRKLFSTPAWNWTCKDLLLLQA  
LRESQSYLVEDLERS

>sp|Q9NWL6|ASND1\_HUMAN Asparagine synthetase domain-containing protein 1 OS=Homo sapiens GN=ASNSD1 PE=2 SV=2  
MCGICCSVNFSAEHFSQDLKEDLLYNLKQRGPNSSKQLLKSDVNYQCLFSAHVLHLRGVL  
TTQPVEDERGNVFLWNGEIFSGIKVEAEENDTQILFNYLSSCKNESEILSLFSEVQGPWS  
FIYYQASSHYLWFGDRDFGRRSLLWHFSNLGKSFCLSSVGTQTSGLANQWQEVPAAGLFR  
IDLKSTVISGCIILQLYPWKYISRENIIEENVNSLSQISADLPAFVSVVANEAKLYLEKP  
VVPLNMMLPQAALETHCSNISNPPTREILQVFLTDVHMKEVIQQFIDVLSVAVKKRVLC  
LPRDENLTANEVLKTCRKANVAILFSGGIDSMVIATLADRHIPLDEPIDLLNVAFIAEE  
KTMTPTTFNREGNKQKNKCEIPSEEFKDVAAAADSPNKHVSVPDRITGRAGLQELQAVS  
PSRIWNFVEINVSMEELQKLRRTTRICHLIRPLDVLDDSIGCAVWFASRGIGWLVAQEGV  
KSYQSNKVVLTGIGADEQLAGYSRHRVRFQSHGLEGLNKEIMMELGRISRNLRDGRV  
IGDHGKEARFPFLDENNVVSFLNSLPIWEKANLTLPRGIGEKLLLRLAAVELGLTASALLP  
KRAMQFGSRIAKMEKINEKASDKCGRQLIMSLENLSIEKETKL

>sp|Q9BZE9|ASPC1\_HUMAN Tether containing UBX domain for GLUT4 OS=Homo sapiens GN=ASPC1 PE=1 SV=1  
MAAPAGGGGSAVSVLAPNGRRHTVKVTPSTVLLQVLEDTCRRQDFNPCEYDLKFQRSVLD  
LSLQWRFANLPNNAKLEMPASRSREGPENMVRIALQLDDGSRLQDSFCSGQTLWELLSH  
FPQIRECLQHPGGATPVCVYTRDEVTEGAALRGTTLSLGLTGGSATIRFVMKCYDPVGK  
TPGSLGSSASAGQAAASAPLPLESGELSRGDLSPEDADTSGPCCEHTQEKQSTRAPAAA  
PFVPFSGGGQRLGGPPGPTRPLTSSSAKLPKSLSSPGGPSKPKSKSGQDPQQEQEQERE  
RDPQQEQERERPVDREPVDPVCHPDLEERLQAWPAELPDEFFELTVDDVRRRLAQLK



SERKRLEEAPLVTKAFREAQIKEKLERYPKVALRVLPDRYVLQGFFRPSETVGDRLDFV  
RSHLGNPELSFYLFITPPKTVLDDHTQTLFQANLFPAALVHLGAEEPAGVYLEPGLLEHA  
ISPSAADVLVARYMSRAAGSPSPLPAPDPAPKSEPAEEGALVPPEPIPGTAPVKRSLG  
KVPKWLKLPASKR

>sp|P26436|ASPX\_HUMAN Acrosomal protein SP-10 OS=Homo sapiens GN=ACRV1 PE=1 SV=2

MNRFLLMSLYLLGSARGTSSQPNELSGSIDHQTSVQQLPGEFFSLENPSDAEALYETSS  
GLNTLSEHGSSEHGSSKHTVAEHTSGEHAESEHASGEPAATEHAEGEHTVGEQPSGEQPS  
GEHLSGEQPLSELESGEQPSDEQPSGEHGSGEQPSGEQASGEQPSGEHASGEQASGAPIS  
STSTGTILNCYTCAYMNDQGKCLRGEGTCITQNSQQCMLKKIFEGGKLQFMVQGCENMCP  
SMNLFSGTRMQIIICCRNQSFCKNI

>sp|P05496|AT5G1\_HUMAN ATP synthase F(0) complex subunit C1, mitochondrial OS=Homo sapiens  
GN=ATP5G1 PE=1 SV=2

MQTAGALFISPALIRCCTRGLIRPVASFLNSPVNSSKQPSYSNFPLQVARREFQTSVVS  
RDIDTAAKFIGAGAAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEA  
MGLFCLMVAFLILFAM

>sp|Q5SQI0|ATAT\_HUMAN Alpha-tubulin N-acetyltransferase 1 OS=Homo sapiens GN=ATAT1 PE=1  
SV=1

MEFPFDVDALFPERITVLDQHLRPPARRPGTTTPARVDLQQQIMTIIDELGKASAKAQN  
SAPITSASRMQSNRHVVYILKDSSARPAGKGAIIGFIKVGKFLVDDREAHNEVEPLC  
ILDFYIHESVQRHGHGRELQYMLQKERVEPHQLAIDRPSQKLLKFLNKHYNLETTVPQV  
NNFVIFEGFFAHQHRPPAPSLRATRSRAAAVDPTAAPARKLPKRAEGDIKPYSSDR  
EFLKVAVEPPWPLNRAPRRATPPAHPPPRSSSLGNSPERGPLRPFVPEQELLRSLRLCPP  
HPTARLLLAADPGGSPAQRRRTRGTPPGLVAQSCCYSRHGGVNSSSPNTGNQDSKQGEQE  
TKNRSASEEQALSQDGSGEKPMHTAPPQAPAPPAQSWTVGGDILNARFIRNLQERRSTRP  
W

>sp|P18848|ATF4\_HUMAN Cyclic AMP-dependent transcription factor ATF-4 OS=Homo sapiens  
GN=ATF4 PE=1 SV=3

MTEMSFLSSEVLVGDLMSPFDQSGLGAEESLGLDDYLEVAKHFKPHGFSSDKAKAGSSE  
WLAVDGLVSPSNNSKEDAFSGTDWMLEKMDLKEFDLDALLGIDDLETMPDPLLTLDDTC  
DLFAPLVQETNKQPPQTVNPIGHLPESLTKPDQVAPFTFLQPLPLSPGVLSSTPDHSFSL  
ELGSEVDITEGDRKPDYATYVAMIPQCIKEEDTPSDNDSGICMSPESYLGSPQHSPSTRG  
SPNRSPLSPGVLCGSARPKPYDPPGEKMVAACKVGEKLDKKLKKMEQNKTAATRYRQKKR  
AEQEALTGECKELEKKNEALKERADSLAKEIQYLKDLIEEVRKARGKKRVP

>sp|Q9NT62|ATG3\_HUMAN Ubiquitin-like-conjugating enzyme ATG3 OS=Homo sapiens GN=ATG3 PE=1  
SV=1

MQNVINTVKGKALEVAEYLTPVLKESKFKETGVITPEEFVAAGDHLVHHCPWQWATGEE  
LKVKAYLPTGKQFLVTKNVPCKRCKQMEYSDELEAIIEDDDGGGWVDYHNTGITGIT  
EAVKEITLENKDNIRLQDCSALCEEEDEDEGEAADMEEYEEESGLLETDEATLDTRKIVE  
ACKAKTDAGGEDAILQTRTYDLYITYDKYYQTPRLWLFQYDEQRQPLTVEHMYEDISQDH  
VKKTVTIENHPLPPPPMCSVHPCRHAEMKKIIETVAEGGGELGVHMYLLIFLKQVAV  
IPTIEYDYTRHFTM

>sp|Q9HIY0|ATG5\_HUMAN Autophagy protein 5 OS=Homo sapiens GN=ATG5 PE=1 SV=2

MTDDKDVLRDVFGRIPTCFTLYQDEITEREAEPYLLLPVSYLTLVTDKVKKHFQKVM  
RQEDISEIWFYEGTPLKWHYPIGLLFDLLASSSALPWNITVHFKSFPEKDLLHCPSKDA

IEAHFMSCKEADALKHKSQVINEMQKKDHKQLWMGLQNDRFDQFWAINRKLMEYPAEEN  
GFRYIPFRIYQTTTERPFIQKLFPRVAADGQLHTLGDLLKEVCPSAIDPEDGEKKNQVMI  
HGIEPMLETPLQWLSEHLSYDPNLFHISIIPQPTD

>sp|Q6DD88|ATLA3\_HUMAN Atlastin-3 OS=Homo sapiens GN=ATL3 PE=1 SV=1

MLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLV  
VVVSVAGAFRKGKSFILDFMLRVLYSQKESGHSNWLGDPEEPLTGFSWRGGSDPETGTIQ  
IWSEVFTVEKPGGKKVAVVLMDTQGAFFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQE  
DDLQQLQLFTEYGRLAMDEIFQKPFQTLMLVRDWSFPYEYSYGLQGGMFLDKRLQVKE  
HQHEEIQNVRNHIHSCFSDVTCFLLPHPGLQVATSPDFDGKLDIAGEFKEQLQALIPYV  
LNPSKLMKEKINGSKVTCTRGLEEFKAYIKIYQGEDLPHPKSMLQATAEANNLAAAASAK  
DIYYNMEEVCGGEKPYLSPDILEEKHCEFKQLALDHFKKTKMGGKDFSFYQQELEEE  
IKELYENFCKHNGSKNVFSTFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLL  
LIALLTWGYIRYSGQYRELGGAIIDFGAAYVLEQASSHIGNSTQATVRDAVVGRPSMDKKA  
Q

>sp|Q43313|ATMIN\_HUMAN ATM interactor OS=Homo sapiens GN=ATMIN PE=1 SV=2

MAASEAAAAAGSAALAAGARAVPAATTGAAAAASGPWVPPGPRLRGSRPRPAGATQQPAV  
PAPPAGELIQPSVSELSRAVRTNILCTVRGCGKILPNSPALNMHLVKSHRLQDGIVNPTI  
RKDLKTGPKFYCCPIEGCPRGPERPFSQFSLVKQHFMMHAEKKHKCSKCSNSYGTEDWL  
KRHAEDCGKTFRCTCGCPYASRTALQSHIYRTGHEIPAHRDPPSKKRKMENCAQNQKLS  
NKTIESLNNQPIPRPDTQEELEASEIKLEPSFEDSCGSNTDKQTLTTPPRYPQKLLLPKPK  
VALVKLPVMQFVSMPVFVPTADSSAQPVVLGVDQGSATGAVHLMPLSVGTLILGLDSEAC  
SLKESLPLFKIANPIAGEPISTGVQVNF GKSPSNPLQELGNTCQKNSISSINVQTDLSYA  
SQNFIPSAQWATADSSVSSCSQTDLSFDSQVSLPISVHTQTFLPSSKVTSSIAAQTDAFM  
DTCFQSGGVSRETQTSIESPTDDHVQMDQAGMCGDIFESVHSSYNVATGNIISNSLVAE  
TVTHSLLPQNEPKTLNQDIEKSAPIINFSAQNSMLPSQNMTDNTQTIDLLSDLENILSS  
NLPAQTLDHRSLLSDTNPGPDTQLPSGPAQNPGIDFDIEEFFSASNIQTQTEESELSTMT  
TEPVLESLDIETQTDFFLADTSAQSYGCRGNSNFLGLEMFDTQTQTDLNFFLDSSPHLPL  
GSILKHSSFSVSTDSSDTETQTEGVSTAKNIPALESKVQLNSTETQTMSSGFETLGSLLFF  
TSNETQTAMDDFLLADLAWNTMESQFSSVETQTSAPHTVSNF

>sp|Q13315|ATM\_HUMAN Serine-protein kinase ATM OS=Homo sapiens GN=ATM PE=1 SV=4

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FRFLQKYIQKETECLRIAKPNVASTQASRQKKMQEISSLVKYFIKCANRRAPRLKCQEL  
LNYIMDTVKDSSNGAIYGADCSNILLKDILSVRKYWCEISQQQWLELFSVYFRLYLKPSQ  
DVHRVLVARIIHAVTKGCCQTDGLNSKFLDFFSKAIQCARQEKSSSGLNHILAALTIFL  
KTLAVNFRIRVCELGDIEILPTLLYIWTQHRLNDSLKEVIELFQLQIYIHHPKGAKTQEK  
GAYESTKWSILYNLYDLLVNEISHIGSRGYSSGFRNIAVKENIELMADICHQVFNE  
TRSLEISQSYTTTQRESSDYSVPCKRKKIELGWEVIKDHLQKSQNDFDLVPWLQIATQLI  
SKYPASLPNCELSPLLMILSLLPQQRHGERTPYVLRCLTEVALCQDKRSNLESSQKSDL  
LKLWNKIWCITFRGISSEQIQAEENFGLGAIIQGSLVEVDREFWKLFTGSACRPSPCAVC  
CLTLALTTSIVPGTVKMGIEQNMCEVNRSFSLKESIMKWLLFYQLEGDLENSTEVPPILH  
SNFPHLVLEKILVSLTMKNCKAAMNFFQSVPECEHHQKDKKEELSFSEVEELFLQTTFDKM  
DFLTIVRECGIEKHQSSIGFSVHQNLIKESLDRCLLGLSEQLLNYSSEITNSETLVRCR  
LLVGVLGCCYCMGVIAEEEAAYKSELFQKAKSLMQCAGESITLFKNKTNEEFRIQSLRNMM  
QLCTRCLSNCTKKSPNKIASGFFLRLLTSKLMNDIADICKSLASFIKKPFDRGEVESMED

DTNGNLMEVEDQSSMNLNDYDPDSSVSDANEPGESQSTIGAINPLAEEVLSKQDLLFLDM  
LKFLCLCVTTAQTNTVSFRAADIRKLLMLIDSSTLEPTKSLHLHMYLMLLKELPGEEYP  
LPMEDVLELLKPLSNVCSLYRRDQDVCKTILNHVLHVVKNLGQSNMDSENTRDAQGQFLT  
VIGAFWHLTKERKYIFSVMALVNCLKTLLLEADPYSKWAILNVMGKDFPVNEVFTQFLAD  
NHHQVRMLAAESINRLFQDTKGDSSRLKALPLKLQQTAFENAYLKAQEGMREMSHAEN  
PETLDEIYNRKSVLLTLIAVVLSCSPICEKQALFALCKSVKENGLEPHLVKKVLEKVSET  
FGYRREDFMASHLDYLVLEWNLQDTEYNLSSFPFILLNYTNIEDFYRSCYKVLIPHLV  
IRSHFDEVKSIANQIQEDWKSLLTDCFPKILVNILPYFAYEGTRDSGMAQQRETATKVYD  
MLKSENLLGKQIDHFLFISNLPEIVVELLMTLHEPANSSASQSTDLCDFSGDLPAPNPPH  
FPSHVIKATFAYISNCHKTKLKSILEILSKSPDSYQKILLAICEQAAETNNVYKKHRILK  
IYHLFVSLLLKDIKSGLGAWAFVLRDVIYTLIHYINQRPSCIMDVSLRSFSLCCDLLSQ  
VCQTAVTYCKDALENHLHVIVGTLIPLVYEQVEVQKQVLDLLKYLVIDNKDNENLYITIK  
LLDPFPDHVVFKDLRITQQKIKYSRGPFSLEEINHFLSVSVYDALPLTRLEGLKDLRRQ  
LELHKDQMVDIMRASQDNPQDGMVKLVNLLQLSKMAINHTGEKEVLEAVGSCLEGEVGP  
IDFSTIAIQHSDASYTKALKLFEDKELQWTFIMLTYNLNTLVEDCVKVRSAAVTCLKNI  
LATKTGHSFWEIYKMTTDPMLAYLPFRTSRKKFLEVPRFDKENPFEGLDLINLWIPLSE  
NNDIWIKTLTCAFLDSGGTKCEILQLLKPMCEVKTDFCQTVLPYL IHDILLQDTNESWRN  
LLSTHVQGFFTSCLRHSQTSRSTTPANLDESEHFFRCCLDKKSQRTMLAVVDYMRRQK  
RPSSGTIFNDAFWLDLNYLEVAKVAQSCAAHFTALLYAEIYADKKSMDDQEKRSALFEEG  
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MWGKALVTYDLETAIPSSSTRQAGIIQALQNLGLCHILSVYKGLDYENKDWCPLEELHY  
QAAWRNMQWDHCTSVSKEVEGTSYHESLYNALQSLRDEFSTFYESLKYARVKEVEEMCK  
RSLESVVSlyPTLSRLQAIGELESIGELFSRSVTHRQLESEVYIKWQKHSQLLKDSDFSQ  
EPIMALRTVILEILMEKEMDNSQRECIKDILTKHLVELSILARTFKNTQLPERAIFQIKQ  
YNSVSCGVSEWQLEEAQVFVAKKEQSLALSILKQMIKKLDASCAANNPSLKLTYTECLRV  
CGNWLAEETCLENPAVIMQTYLEKAVEVAGNYDGESSDELNRNGKMAFLSLARFSDTYQR  
IENYMKSSSEFENKQALLKRAKEEVGLLREHKIQTNRYTVKVQRELELDELALRALKEDRK  
RFLCKAVENYINCLSGEEHDMWVFRLC SLWLENSGVSEVNGMMKRDGMKIPTYKFLPLM  
YQLAARMGTMKGGLGFHEVLNLI SRISMDHPHHTLFII LALANANRDEFLTKEVARR  
SRITKNVPKQSSQLDEDRTAANRI ICTIRSRPQMVRSEALCDAYI ILANLDATQWKT  
QRKGINIPADQPI TKLNLEDVVVPTMEIKVDHTGEYGNLVTIQSFKAEFRLAGGVNLPK  
I IDCVGSDGKERRQLVKGRDDL RQDAVMQVFQMCNTLLQRNTETRKRKLTICTYKVVPL  
SQRSGVLEWCTGTVP IGEFLVNNEG AHKRYRPNDFAFQCQKKMMEVQKKSFEELYEVF  
MDVCQNFQPVFRYFCMEKFLDPAIWFEKRLAYTRSVATSSIVGYILGLGDRHVQNILINE  
QSAELVHIDLGVAFEQGKILPTPETVPFRLTRDIVDGMGITGVEGVFRRCEKTMEVMRN  
SQETLLTIVEVLLYDPLFDWTMNP LKALYLQQRPEDETELHPTLNADDQECKRNLSDIDQ  
SFNKVAERVLMLRQEKLKGVEEGTVLSVGGQVNLLIQQAIDPKNLSRLFPGWKAWV

>sp|Q92858|ATO1\_HUMAN Protein atonal homolog 1 OS=Homo sapiens GN=ATO1 PE=2 SV=1

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PRAWLAPTLQGICTARAAQYLLHSPELGASEAAAPRDEVDGRGELVRRSSGGASSSKSPG  
PVKVREQLCKLKGGVVDELGCSRQRAPSSKQVNGVQKQRRLAANARERRRMHGLNHAFD  
QLRNVIPSFNNDKKLSKYETLQMAQIYINALSELLQTPSGGEQPPPPASCKSDHHHLRT  
AASYEGGAGNATAAGAAQASGGSQRTPPGSCRTRFSAPASAGGYSVQLDALHFSTFEDS  
ALTAMMAQKNLSPSLPGSILQPVQEENSKTSPRSHRSDGEFSPHSHYSDSDEAS

>sp|043861|ATP9B\_HUMAN Probable phospholipid-transporting ATPase IIB OS=Homo sapiens  
GN=ATP9B PE=2 SV=4

MADQIPLYPVRSAAAAAANKRAAYSAAGPRPGADRHSRYQLEDESAHLDEMPLMSEE  
GFENEESDYHTLPRARIMQRKRGLEWFCVGWFLCTSCCGWLINICRRKKELKARTVWL  
GCPEKCEEKHPRNSIKNQKYNVFTFIPGVLVEQFKFFLNLYFLVISCSQFVPALKIGYLY  
TYWAPLGFVLAVTMTREAIDEFRRFQRDKEVNSQLYSKLTVRGKVQVKSSDIQVGDLIIV  
EKNQRIPSDMVFLRTSEKAGSCFIRTDQLDGETDWKLKVAVSCTQQLPALGDLFSISAYV  
YAQKPQMDIHSFEGFTFTRESDPPIHESLSIENTLWASTIVASGTVIGVVIYTGKETRSV  
MNTSNPKNKVGLLDLELNRLTKALFLALVALSIVMVTLQGFVGPWYRNLFRLLLFSYII  
PISLRVNLDMGKAVYGWMMMKDENIPGTVVRTSTIPEELGRLVYLLTDKTGTLTQNMIF  
KRLHLGTVSYGADTMDEIQSHVRDSYSQMQSQAGGNNTGSTPLRKAQSSAPKVRKSVSSR  
IHEAVKAIVLCHNVTPVYESRAGVTEETEFADQDFSDENRTYQASSPDEVALVQWTES  
VGLTLVSRDLTSMQLKTPSGQVLSFCILQLFPFTSESKRMGVIVRDESTAEITFYMGAD  
VAMSPIVQYNDWLEECCGNMAREGLRTLVAKKALTEEQYQDFESRYTQAKLSMHDRSLK  
VAAVESLEREMELLCTGVEDQLQADVRPTLEMLRNAGIKIWMLTGDKLETATCIAKSS  
HLVSRTQDIHIFRQVTSRGEAHLELNAFRRKHDCALVISGDSLEVCLKYYEHEFVELACQ  
CPAVVCCRCSPQKARIVTLLQQHTGRRTCAIGDGGNDVSMIQAADCGIGIEGKEGKQAS  
LAADFSTQFRHIGRLLMVHGRNSYKRSALGQFVMHRGLIISTMQAVFSSVFYFASVPL  
YQGFLMVGYATIYTMFPVFSVLVDQDVKPEMAMLYPELYKDLTKGRSLSFKTFLIWVLIS  
IYQGGILMYGALVLFESFVHVVAISFTALILTELLMVALTVRTWHWLMVVAEFLSLGCY  
VSSLAFLENEYFGIGRVSFGAFLDVAFITTVTFLWKVSAITVVSCPLVYLKYLRRKLSPP  
SYCKLAS

>sp|Q92482|AQP3\_HUMAN Aquaporin-3 OS=Homo sapiens GN=AQP3 PE=2 SV=2

MGRQKELVSRCEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVLSRGTHGGFLTIN  
LAFGFAVTLGILIAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLGAFLGAGIVF  
GLYDAIWHFADNQLFVSGPNGTAGIFATYPSGHLDMINGFFDQFIGTASLIVCVLAIVD  
PYNPNVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLFTALAGWGSVFTTGQ  
HWWWPIVSPLLGSAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

>sp|Q15041|AR6P1\_HUMAN ADP-ribosylation factor-like protein 6-interacting protein 1  
OS=Homo sapiens GN=ARL6IP1 PE=1 SV=2

MAEGDNRSTNLLAAETASLEEQLQGWGEVMLMADKVLRWERAWFPFPAIMGVVSFLVIY  
YLDPSVLSGVSCFVMFLCLADYLVPI LAPRIFGSNKWTTEQQRFHEICSNLVKTRRRAV  
GWWKRLFTLKEEKPKMYFMTMIVSLAAVAWVGQVHNLLTYLIVTSLLLLPGLNQHGI  
LKYIGMAKREINKLLKQKEKKNE

>sp|P25098|ARBK1\_HUMAN Beta-adrenergic receptor kinase 1 OS=Homo sapiens GN=GRK2 PE=1  
SV=2

MADLEAVLADVSYLMAMEKSKATPAARASKILLPEPSIRSVMQKYLEDRGEVTFEKIFS  
QKLGYLLFRDFCLNHLLEEARPLVEFYEEIKKYEKLETEEERVARREIFDSYIMKELLAC  
SHPFSKSATEHVQGHGKKQVPPDLFQPYIEEICQNLRGDVFQKFIESDKFTRFCQWKNV  
ELNIHLMNDFSVHRIIGRGGFGEVYGCRKADTGKMYAMKCLDKKRIKMKQGETLALNER  
IMLSLVSTGDCPFIVCMSYAFHTPDKLSFILDLMNGGDLHYHLSQHGVFSEADMRFYAAE  
IILGLEHMHNRFVYRDLKPANILLDEHGHVRISDLGLACDFSKKKPHASVGTGYMAPE  
VLQKGVAVDSSADWFSLGCMLFKLLRGHSPFRQHKTCDKHEIDRMTLTMAVELPDSFSPE  
LRSLLLEGLLQRDVNRRLGCLGRGAQEVKESPFRRSLDWQMVFLQKYPPLIPPRGEVNAA

DAFDIGSFDEEDTKGIKLLDSDQELYRNFPLTISERWQQVAETVFDTINAETDRLEARK  
KAKNKQLGHEEDYALGKDCIMHGYSKMGNPFLTQWQRRYFYLFNRLLEWRGEGEAPQSL  
LTMEEIQSVEETQIKERKCLLLKIRGGKQFILQCSDPELVQWKKELRDYREAQQLVQR  
VPKMKNKPRSPVVELSKVPLVQRGSANGL

>sp|P53367|ARFP1\_HUMAN Arfaptin-1 OS=Homo sapiens GN=ARFIP1 PE=1 SV=2

MAQESPKNSAAEIPVTSNGEVDDSDREHSFNRLKHSLPSGLGLSETQITSHGFDNTKEGV  
IEAGAFQGSPAPPLSPVMSPSRVAASRLAQGSDLVIPAGGQRTQTKSGPVILADEIKNP  
AMEKLELVRKWSLNTYKCTRQIISEKLGRGSRTVDLEEAQIDILRDNKKKYENILKLAQ  
TLSTQLFQMVTQRQLGDAFADLSLKSELEHEEFGYNADTQKLLAKNGETLLGAINFFIA  
SVNTLVNKTIEDTLMTVKQYESARIEYDAYRTDLEELNLGPRDANTLPKIEQSQHLEFQAH  
KEKYDKMRNDVSVKLKLEENKVKVLHNQLVLFHNAIAAYFAGNQKQLEQTLKQFHIKLLK  
TPGVDAPSWLEEQ

>sp|Q9GZN1|ARP6\_HUMAN Actin-related protein 6 OS=Homo sapiens GN=ACTR6 PE=1 SV=1

MTTLVLDNGAYNAKIGYSHENVSVIPNCQFRSKTARLKTFTANQIDEIKDPSGLFYILPF  
QKGYLVNWDVQRQVWDYLFGKEMYQVDFLDTNIIITEPYFNFTSIQESMNEILFEEYQFQ  
AVLRVNAGALSAHRYFRDNPSELCCIIIVDSGYSFTHIVPYCRSKKKKEAIIIRINVGGKLL  
TNHLKEIISYRQLHVMDETHVINQVKEDVCYVSQDFYRMDIAKLKGEENTVMIDYVLPD  
FSTIKKGFCCKPREEMVLSGKYKSQEQILRLANERFAVPEILFNPSDIGIQEMGIPEAIVY  
SIQNLPEEMQPHFFKNIVLTGGNSLFPGRDRVYSEVRCLTPTDYDVSVVLPENPITYAW  
EGGKLISENDDFEDMVVTREDEYENGHSVCEEKFDI

>sp|Q96EG1|ARSG\_HUMAN Arylsulfatase G OS=Homo sapiens GN=ARSG PE=1 SV=1

MGWFLKVLLAGVSFSGFLYPLVDFCISGKTRGQKPNFVILADDMGWGDLGANWAETKD  
TANLDKMASEGMRVDFHAAASTCSPSRASLLTGRLGLRNGVTRNFAVTSVGGGLPLNETT  
LAEVLQQAGYVTGIIIGKWHLGHHGSYHPNFRGFDYYFGIPYSHDMGCTDTPGYNHPPCPA  
CPQGDGPSRNLQRDCYTDVALPLYENLNIVEQPVNLSLAQKYAEKATQFIQRASTSGRP  
FLLYVALAHMHVPLPVTQLPAAPRGRSLYGAGLWEMDSL VGQIKDKVDHTVKENTFLWFT  
GDNGPWAQKCELAGSVGPFTGFWQTRQGSPAKQTTWEGGHRVPALAYWGRVPVNVST  
ALLSVLDIFPTVVALAQASLPQRRFDGVDVSEVLFGRSQPGHRVLFHPNSGAAGEFGAL  
QTVRLERYKAFYITGGARACDGTGPQLQHKFPLIFNLEDDTAEAVPLERGGAEYQAVLP  
EVRKVLADVLQDIANDNISSADYTQDPSVTPCCNPYQIACRCQAA

>sp|Q8WXH4|ASB11\_HUMAN Ankyrin repeat and SOCS box protein 11 OS=Homo sapiens GN=ASB11  
PE=1 SV=1

MEDGPVFYGFKNIFITMFATFFFFKLLIKVFLALLTHFYIVKGNRKEAARIAEEIYGGIS  
DCWADRSPLEHAAAQGRLLALKTLIAQGVNVNLVTINRVSSLHEACLGGHVACAKALLEN  
GAHVNGVTVHGATPLFNACCSGSAACVNVLLFEGAKAQLEVHLASPIHEAVKRGHRECME  
ILLANNVNIDHEVPQLGTPLYVACTYQRVDCVKKLELGASVDHGQWLDTPLHAAARQSN  
VEVIHLLTDYGANLKRNRNAQGKSALDLAAPKSSVEQALLLREGPPALSQLCRLCVRKCLG  
RACHQAIHKLHLPEPLERFLLYQ

>sp|Q8WXX3|ASB13\_HUMAN Ankyrin repeat and SOCS box protein 13 OS=Homo sapiens GN=ASB13  
PE=1 SV=2

MEPRAADGCFLGDVGFVVTPVHEAAQRGESLQLQQLIESGACVNQVTVDSITPLHAAS  
LQGQARCVQLLLAAGAQVDARNIDGSTPLCDACASGSIECVKLLLSYGAKVNPPLYTASP  
LHEACMSGSSSECVRLIDVGANLEAHDCHFGLPHVACAREHLDCVKVLLNAGANVNAAK  
LHETALHHAARKVKNVDLIEMLIEFGGNIYARDNRGKKPSDWTWSSAPAKCFEYYEKTPL

TLSQLCRVNLRKATGVRGLEKIAKLNIPPRLIDYLSYN

>sp|Q9Y576|ASB1\_HUMAN Ankyrin repeat and SOCS box protein 1 OS=Homo sapiens GN=ASB1 PE=1 SV=1

MAEGGSPDGRAGPGSAGRNLKEWLREQFCDHPLEHCEDTRLHDAAYVGDLQTLRSLLQEE  
SYRSRINEKSVWCCGWLPTPLRIAATAGHGSCVDFLIRKGAEVDLVDVKGQTALYVAVV  
NGHLESTQILLEAGADPNGSRHHRSTPVYHASRVGRADILKALIRYGADVVDNHHLTPDV  
QPRFSRRLTSLVVCPLYISAAYHNLQCFRLLLLAGANPDFNCNGPVNTQGFYRGSPGCVM  
DAVLRHGCEAAAFVSLLEVEFGANLNLVKWESLGPESRGRRKVDPEALQVFKEARSVPRTL  
CLCRVAVRRALGKHRLHLIPSLPLPDPIKKFLLHE

>sp|Q9Y574|ASB4\_HUMAN Ankyrin repeat and SOCS box protein 4 OS=Homo sapiens GN=ASB4 PE=2 SV=1

MDGTTAPVTKSGAAKLVKRNFLEALKSNDFGKLKAILIQRQIDVDTVFEVEDENMVLASY  
KQGYWLPSYKLKSSWATGLHLSVLFGHVECLLVLLDHNATINCRPNGKTPLHVACEMANV  
DCVKILCDRGAKLNCYSLSGHTALHFCTTPSSILCAKQLVWRGANVNMKTNNQDEETPLH  
TAAHFGLSELVAFYVEHGAIVDSVNAHMETPLAIAAYWALRFKEQEYSTEHHLVCRMLLD  
YKAEVNARDDDFKSPLHKAAWNCDHVLHMMLEAGAEANLMDINGCAAIQYVLKVTSVRP  
AAQPEICYQLLLNHGAARIYPPQFHKVIQACHSCPKAIEVVVNAYEHIRWNTKWRRRAIPD  
DDLEKYWDFYHSLFTVCCNSPRTLMHLSRCAIRRTLHNRCHRAIPLLSLPLSLKKYLLLE  
PEGIIY

>sp|Q8WWX0|ASB5\_HUMAN Ankyrin repeat and SOCS box protein 5 OS=Homo sapiens GN=ASB5 PE=2 SV=1

MSVLEENRPFAQQLSNVYFTILSLFCFKLFVKISLAILSHFYIVKGNRKEAARIAAEFYG  
VTQGGGSWADRSPLEHAASQGRLLALRTLTSQGYNVNAVTLDHVTPLHEACLDHVACAR  
TLLEAGANVNAITIDGVTPLFNACSQGSPSCAELLLEYGAKAQLESCLPSPTHEAASKGH  
HECLDILISWGIDVDQEIPLHGLTPLYVACMSQQFHCIWKLLYAGADVQKGKYWDTPLHAA  
AQQSSTEIVNLLLEFGADINAKNTELLRPIDVATSSSMVERILLQHEATPSSLYQLCRLC  
IRSYIGKPRLHLIPQLQLPTLLKNFLQYR

>sp|Q9H765|ASB8\_HUMAN Ankyrin repeat and SOCS box protein 8 OS=Homo sapiens GN=ASB8 PE=2 SV=1

MSSSMWYIMQSIQSKYSLSERLIRTIAAIRSFPDNDVEDLIRGGADVNCNTHGTLKPLHCA  
CMVSDADCVELLLEKGAEVNLDGYNRTALHYAAEKDEACVEVLLEYGANPNALDGNRDT  
PLHWAFAFNNAECVRALLESASVNALDYNNDTPLSWAAMKGNLESVSILLDYGAEVRI  
NLIGQTPISRLVALLVRGLGTEKEDSCFELLHRAVGHFELRKNGTMPREVARDPQLCEKL  
TVLCSAPGTLKTLARYAVRRSLGLQYLPDAVKGLPLPASLKEYLLLLLE

>sp|Q8N3C0|ASCC3\_HUMAN Activating signal cointegrator 1 complex subunit 3 OS=Homo sapiens GN=ASCC3 PE=1 SV=3

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SKMQSINEDLKDILHAAKQIVGTDNGREAIESGAAFLMTFHLKDSVGHKETKAIKQMFG  
PFPSSSATAACNATNRIISHFSQDDL TALVQMTEKEHGDVFFGKNLAFSFDMDHLDHFD  
ELPINGETQKTISLDYKKFLNEHLQEACTPELKPVEKTNGSFLWCEVEKYLNSTLKEMTE  
VPRVEDLCCTLYDMLASIKSGDELQDELFELLGPEGLELIEKLLQNRITIVDRFLNSSND  
HRFQALQDNCKKILGENAKPNYGCQVTIQSEQEKQLMKQYRREEKRIARREKKAGEDLEV  
SEGLMCFDPKELRIREQALLNARSVPILSRQRDADVEKIHYPHYDSQAEAMKTSAFIA  
GAKMILPEGIQRENNKLYEEVRIPYSEPMPLSFEEKPVYIQDLDEIGQLAFKGMKRLNRI

QSI VFETAYNTNENMLICAPTGAGKTNIAMLTVLHEIRQHQQGVIKKNEFKIVYVAPMK  
ALAAEMTDYFSRRLEPLGIIVKELTGDMQLSKSEILRTQMLVTTPEKWDVVTRKSVGDA  
LSQIVRLLILDEVHLLHEDRGPVLESIVARTLRQVESTQSMIRILGLSATLPNYLDVATF  
LHVNPIYIGLFFFDGRFRPVPLGQTFLGIKCANKMQQLNNMDEV CYENVLKQVKAGHQVMV  
FVHARNATVRTAMSLIERAKNCGHIPFFFTQGH DYVLA EKQVQSRNKQVRELFPDGFS  
IHHAGMLRQDRNLVENLFSNGHIKVLVCTATLAWGVNLP AHAVIIKGTQIYAAKRGSFVD  
LGILDVMQIFGRAGRPQFDKFGEGIIITTHDKLSHYLTLLTQRNPIESQFLESLADNLNA  
EIALGTVTNVEEAVKWISYTYLVYRMANPLAYGISHKAYQIDPTLRKHREQLVIEVGRK  
LDKAQMIRFEERTGYFSSTDLGRTASHYYIKYNTIETFNELFDAHKTEGDIFAIVSKAEE  
FDQIKVREEEIEELDTLLSNFCELSTPGGVENSYGKINILLQTYISRGEMDSFSLISDSA  
YVAQNAARIVRALFEIALRKRWPTMTYRLLNLSKVIDKRLWGWASPLRQFSILPPHILTR  
LEEKKLTVDKLDMRKDEIGHILHHVNI GLKVKQCVHQIPSVMMEASIQPITRTVLRVTL  
SIYADFTWNDQVHGTVGEPWWI WVEDPTNDHIYHSEYFLALKKQVISKEAQLLVFTIPIF  
EPLPSQYYIRAVSDRWLGAEAVCIINFQHLILPERHPPHTELLDLQPLPITALGCKAYEA  
LYNFSHFNPVQTQIFHTLYHTDCNVLLGAPTGSGKTVAELAI FRVFNKYPTSKAVYIAP  
LKALVRERMDDWKVRIEEKLGKKVIELTGDVTPDMKSI AKADLIVTTPEKWDGVSRSWQN  
RNYVQQVTILII DEIHLLGEERGPVLEVIVSRTNFISSHTEKPVRI VGLSTALANARDLA  
DWLNIKQMGLFNFRPSVRPVPLEVHIQGFPQQHYCPRMASMNKPAFQAIRSHSPAKPVL I  
FVSSRRQTRLTALELIAFLATEEDPKQWLNMDEREMENI IATVRDSNLKLTAFGIGMHH  
AGLHERDRKTVEELFVNCKVQVLIATSTLAWGVNFAHLV IIKGTEYYDGKTRRYVDFPI  
TDVLQMMGRAGRPQFDDQGKAVILVHDIKKDFYKKFLYEPFPVLESSLLGVLS DHLNAEIA  
GGTITSKQDALDYITWTYFFRRLIMNPSYYNLGDVSHDSVNKFLSHLIEKSLIELELSYC  
IEIGEDNRSIEPLTYGRIASYYLKHQTVKMFKDRLKPECSTEELLSILSDAE EYTDLPV  
RHNE DHMNS ELAKCLPIESNPHSFDSPHTKAHLLLQAHL SRAMLPCPDYD TDKTVLDQA  
LRVCQAML DVAANQGWLVTVL NITNLIQMVIQGRWLKDSSLLTLPNIENHHLHLFKKWK P  
IMKGPHARGRTSIESLPELIHACGGKDHVFSSMVESELHAAKTKQAWNFLSHLPVINVG I  
SVKGSWDDLVEGHNELSVSTLTADKRDDNKWIKLHADQEYVLQVSLQRVHFGFHKGPES  
CAVTPRFPKSKDEGWFLILGEVDKRELIALKRVGYIRNHHVASLSFYTP EIPGRYIYTLY  
FMSDCYLGLDQQYDIYLNVTQASLSAQVNTKVSDSLTDLALK

>sp|Q6XD76|ASCL4\_HUMAN Achaete-scute homolog 4 OS=Homo sapiens GN=ASCL4 PE=1 SV=1

METRKP AERLALPYSLRTAPLGVPGLTLPGLPRRDPLRVALRLDAACWEWARGCARGWQY  
LPVPLDSAFEPALRKRNERERQVRVCVNEGVARLRDHLPRELADKRLSKVETLRAAIDY  
IKHLQELLERQAWGLEGAAGAVPQRRACNSDGESKASSAPSPSSEPEEGGS

>sp|P24539|AT5F1\_HUMAN ATP synthase F(0) complex subunit B1, mitochondrial OS=Homo sapiens  
GN=ATP5F1 PE=1 SV=2

MLSRVLSAAATAAPSLKNA AFLGPGVLQATRTFHTGQPHLVVPPLPEYGGKVRYGLIP  
EEFFQFLYPKTGVTGPYVLGTGLILYALSKEIYVISAETFTALSVLGMVYGIKKYGPFV  
ADFADKLNEQKLAQLEEAKQASIQHIQNAIDTEKSQQALVQKRHYLFDVQRNNIAMALEV  
TYRERLYRVYKEVKNRLDYHISVQNMRRKEQEHMINWVEKHVVQSISTQQEKETIAKCI  
ADLKLAKKAQAQPM

>sp|Q9ULK2|AT7L1\_HUMAN Ataxin-7-like protein 1 OS=Homo sapiens GN=ATXN7L1 PE=1 SV=3

MTSERSRIPCLSA AAEAGTGKKQQEGRAMATLDRKVPSEAF LGKPWSSWIDAAKLHCSD  
NVDLEEAGKEGKSREVMRLNKEDMHLFGHYPAHDDFYLVVCSACNQVVKPQVFQSHCER  
RHGSMCRPSPSPVSPASNRTSLVQVKTKACLSGHHSASSTSKPFKTPKDNLLTSSSKQH

TVFPAKGSRDKPCVPVPVVSLEKIPNLVKADGANVKMNSTTTTAVSASSTSSSAVSTPPL  
IKPVLMSKSVPPSPEKILNGKILPTTIDKKHQNGTKNSNKPYYRLSEREFDPNKHCGVL  
DPETKKPCTSLTCKTHSLSHRAVPGRKKQFDLLAEHKAKSREKEVKDEHLLTSTRE  
ILPSQSGPAQDSSLGSSGSGPEPKVASPAKSRPPNSVLPSPSSANSISSSTSSNHSHT  
PEPPLPPVGGDLASRLSSDEGEMDGADESEKLDQCFSTHHPRLAFCSFGSRLMGRGYV  
FDRRWDRFRFALNSMVEKHLNSQMWKKIPPAADSPLPSAAHITTPVPASVLQPFNSPSA  
VYLPSAPISSRLTSSYIMTSAMLNAAAFVTSPPSALMSHTTAFPHVAATLSIMDSTFKA  
PSAVSPIPAVIPSPSHKPSKTKTSKSSKVKDLSTRDESPSNKKRKPQSSTSSSSSSSS  
SLQTSLSPLSGPHKKNCVLNASSALNSYQAAPPYNLSVHNSNNGVSPLSAKLEPSGRT  
SLPGGPADIVRQVGAVGGSSDSCPLSVPSLALHAGDLSLASHNAVSSLPLSFDKSEGKKR  
KNSSSSSKACKITKMPGMNSVHKKNPPSLLAPVPDPVNSTSSRQVGKNSSLALSQSSPSS  
ISSPGHSRQNTNRTGRITLP

>sp|Q14CW9|AT7L3\_HUMAN Ataxin-7-like protein 3 OS=Homo sapiens GN=ATXN7L3 PE=1 SV=1

MKMEEMSLSGLDNSKLEAIAQEIYADLVEDSCLGFCFEVHRAVKCGYFFLDDTDPDSMKD  
FEIVDQPGLDIFGQVFNQWKSKEVCPCNCSRSIAASRFAPHLEKCLGMGRNSSRIANRRI  
ANSNNMNKSESDQEDNDINDNDWSYGSEKKAKKRKSDKNPNSPRRSKSLKHKNGELSNS  
DPFKYNNSTGISYETLGPEELRSLTTQCGVISEHTKKMCTRSLRCPQHTDEQRRTVRIY  
FLGPSAVLPEVESSLDNDSFDMTDSQALISRLQWDGSSDLSPSDSGSSKTSENQGWGLGT  
NSSESRTKTKKKSHLSLVGTASGLGSNKKKKPKPPAPPTPSIYDDIN

>sp|Q96QE3|ATAD5\_HUMAN ATPase family AAA domain-containing protein 5 OS=Homo sapiens  
GN=ATAD5 PE=1 SV=4

MVGLAMAAAAAPPVKDCEIEPCKKRKKDDDTSTCKTITKYLSPLGKTRDRVFAAPPKPS  
NILDYFRKTSPTNEKTQLGKECKIKSPESVPVDSNKDCTTPEMFNSVEFKKKRKRVLNLS  
HQLNNIKTENEAPIEISSDDSKEDYSLNDFVESSTSVLRYKKQVEVLAENIQDTKSQPN  
TMTSLQNSKKVNPKGTTKNDFFKLKRKCRDVLSESLPLAEELNLLKKDGKDTKQME  
NTTSHANSRDNVTEAAQLNDSIITVSYEEFLKSHKENKVEEIPDSTMSICVPSETVDEIV  
KSGYISESENSEISQQVRFKTVTVLAQVHIPPKKTGKIPRIFLKQKQFEMENSLSDPEN  
EQTVQKRKSNVVIQEEELELAVLEAGSSEAVKPKCTLEERQQFMKAFRQPASDALKNVVK  
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KNKKTLDTGAI PGKNREGNTQKKETTFFLKEKQYQNRMSLRQRKTEFFKSSTLFNNEVLV  
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SSTPTTETIRGIDSDVDQNSQLKASTQKAANLSEKHSLYTAELITVPFDESPIRMKFT  
RISTPKKSKKKSNKRSEKSEATDGGFTSQIRKASNTSKNISKAKQLIEKAKALHISRSKV  
TEEIAIPLRRSSRHQTLPERKKLSETEDSVIIIDSSPTALKHPEKNQKKLQCLNDVLGKK  
LNTSTKNVPGMKVAPLFLVRKAQKAADPVPSFDESSQDTSEKSQDCDVQCKAKRDFLMS  
GLPDLLKRQIAKAAAALDVYNAVSTSFQRVVHVQQKDDGCCLWHLKPPSCPLLTKFKELN  
TKVIDLSKCGIALGEFSTLNSKLKSGNSAAVFMRTKEFTTEVRNLLLEEIRWSNPEFSL  
KKYFPLLLKKQIEHQVLSSECHSKQELEADVSHKETKRKLVEAENSKSRKKPNEYSKNL  
EKTNRKSEELSKRNSSGIKLDSSKDSGTEDMLWTEKYQPQTASELIGNELAIKKLHSLW  
KDWKRAELEERQNLKGRDEKHEDFSGGIDFKGSSDDEESRLCNTVLITGPTGVGKTA  
AVYACAQELGFKIFEVNASSQSRGRQILSQLKEATQSHQVDKQGVNSQKPCFFNSYYIGK  
SPKKISSPKKVTSRPRVPPSPKSSGPKRALPPKTLANYFKVSPKPKNNEEIGMLLENN  
KGIKNSFEQKQITQTKSTNATNSNVKDVGAEEPSRKNATSLILFEEVDVIFDEDAAGFLNA  
IKTFMATTKRPVILTSDPTFSLMFDGCFEEIKFSTPSLLNVASYLQMICLTENFRDVK



DFVTLTANTCDIRKSILYLQFWIRSGGVLEERPLTLYRGNSRNVQLVCSEHGLDNKIY  
PKNTKKKRVDLPKCDSGCAETLFLGLKNIFSPSEDLFSFLKHKITMKEEWHKFIQLLTFEQ  
MRNVDFLYSNLEFILPLPVDITIPETKNFCGSPSVTVDASAATKSMNCLARKHSEREQPLKK  
SQKKKQKKTIVLDDSDLFDLDFPDQSISSSVSSSSNAEESKTGDEESKARDKGNP  
ETKKSIPCPPKTTAGKKCSALVSHCLNSLSEFMDNMSFLDALLTDVREQNKYGRNDFSWT  
NGKVTSGLCDEFSLESNDGWTSQSSGELKAAAEALSFTKCSAISKALETLSCKKLGRD  
PTNDLTFYVSQKRNNVYFSQSAANLDNAWKRISVIKSVFSSRSLLYVGNRQASII EYLP  
LRNICKTEKLKEQGKSKRRFLHYFEGIHLDIPKETVNTLAADFP

>sp|Q9NVI7|ATD3A\_HUMAN ATPase family AAA domain-containing protein 3A OS=Homo sapiens  
GN=ATAD3A PE=1 SV=2

MSWLFGINKGPKGEGAGPPPPLPPAQPAGEGGDRGLGDRPAPKDKWSNFDPTGLERA  
AAARELEHSRYAKDALNLAQMGEQTLQLEQQSKLKMRLAELSLLHTLVWAWSLCRA  
GAVQTQERLSGSASPEQVPAGECCALQEYEA AVEQLKSEQIRAQAEERRKTLSEETR  
QHQAQYQDKLARQRYEDQLKQQQLLNEENLRKQEE SVQKQAMRRATVEREMELRH  
KNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLESIRTAGTLFGEG  
FRAFTDWDKVTATVAGLTLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITV  
LEALRHPIQVSRRLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNIL  
MYGPPGTGKTLFAKKLALHSGMDYAIMTGGDVAPMGREGVTAMHKLFDWANTS  
RRGLLLFVDEADAFLRKRATEKISEDLRALNAFLYRTGQHSNKFMLVLASNQPE  
QFDWAINDRINEMVHFDLPGQEERERLVRMYFDKYVLKPATEGKQRLKLAQFDY  
GRKCSEVARLTEGMSGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQH  
QKMCWLKAEGPGRGDEPSPS

>sp|O95260|ATE1\_HUMAN Arginyl-tRNA--protein transferase 1 OS=Homo sapiens  
GN=ATE1 PE=1 SV=2

MAFWAGGSPSVVDYFPSEDFYRCGYCKNESGSRNGMWAHSMTVQDYQDLIDRGWRRSGK  
YVYKPMNQTCPPQYITRCRPLQFQPSKSHKKVLKKMLKFLAKGEVPGKSCDEPMDSTM  
DDAVAGDFALINKLDIQCDLKTLSDDIKESLESEGKNSKKEEPQELLQSQDFVGEKLGSG  
EPHSVKVHTVPKPGKADLSKPPCRKAKEIRKERKRLKLMQQNPAGELEGFQAQGHPPS  
LFPPKAASNQPKSLEDLIFESLPENASHKLEVRVVRSSPPSSQFKATLLESYQVYKRYQM  
VIHKNPDPPTESQFTRFLCSSPLEAETPPNGPDCGYGSFHQQYWLDGKIIAVGVIDILP  
NCVSSVLYYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYYMGFYIHSCPKMKYKG  
QYRPSDLLCPETYVWVPIEQCLPSLENSKYCRFNQDPEAVDEDRSTEPDRLQVFKRAIM  
PYGVYKKQKQDPSEEA AVLQYASLVGQKCSERMLLFRN

>sp|Q9H0Y0|ATG10\_HUMAN Ubiquitin-like-conjugating enzyme ATG10 OS=Homo sapiens  
GN=ATG10 PE=1 SV=1

MEEDEFIGKTFQRYCAEFIKHSQQIGDSWEWRPSKDCSDGYMCKIHFQIKNGSVM  
SHLGA  
STHGQTCLPMEEAFELPLDDCEVIETAAASEVIKYEYHVLYSCSYQVPVLYFRASFLDG  
RPLTLKDIWEGVHECYKMRLQLQGPWDITITQQEHPILGQPFFVLHPCKTNEFMT  
PVLKNSQKINKNVNYITSWLSIVGPVVG  
LNLPLSYAKATSQDERNVP

>sp|Q9NR80|ARHG4\_HUMAN Rho guanine nucleotide exchange factor 4 OS=Homo sapiens  
GN=ARHGEF4 PE=1 SV=3

MPWEEPAGEKPSCHSQKAFHMEPAQKPCFTTDMVTWALLCISAETVRGEAPSQPRGIPH  
RSPVSVDDLWLEKTQRKKLQKQAHVERRLHIGAVHKDGVKCWRKTIITSPESLNLPRRSH  
PLSQSAPTGLNHMGWPEHTPGTAMPD  
GALDTAVCADEVGSEEDLYDDLHSSSHHYSHPGG  
GGEQLAINELISDGSVVCAEALWDHVTMDDQELGFKAGDVI  
EVM DATNREWWWGRVADGE

GWFPASFVRLRVNQDEPADDDAPLAGNSGAEDGGAEAQSSKDMRTNVINEILSTERDYI  
KHLRDICEGYVRQCRKRADMFSEEQLRTIFGNIEDIYRCQKAFVKALEQRFNRERPHLSE  
LGACFLEHQADFQIYSEYCNNHPNACVELSRLTKLSKYVYFFEACRLQKQKIDISLDGFL  
LTPVQKICKYPLQLAELLKYTHPQHRDFKDEAALHAMKNVAQLINERKRRLENIDKIAQ  
WQSSIEDWEGEDLLVRSEL IYSGELTRVTQPQAKSQQRMFFLFDHQLIYCKDLLRRDV  
LYYKGRDMDGLEVDLEDGKDRDLHVS IKNAFRLHRGATGDSHLLCTRKPEQKQRLKA  
FAREREQVQLDQETGFSITELQRKQAMLNASKQVVTGKPKAVGRPCYLTRQKHPALPSNR  
PQQQVLVLAEP RRPSTFWHSISRLAPFRK

>sp|Q12774|ARHG5\_HUMAN Rho guanine nucleotide exchange factor 5 OS=Homo sapiens GN=ARHGEF5  
PE=1 SV=3

MEAEAAQRGASPPISAIEEFSI IPEAPMRSSQVSALGLEAQEDEDPSYKWREEHRLSATQ  
QSELRDVCDYAIETMPSFPKEGSADVEPNQESLVAEACDTPHEWEAVPQSLAGRQARTLA  
PPELWACPIQSEHLDMAFSSDLGSEEEVEFWPGLTSLTLGSGQAEEEEETSSDNSGQT  
RYYSPCEEHPAETNNEGSESGTIRQGEELPPEELQESQGLLHPQEVQVLEEQQQEAGF  
RGEGLTREDVCADGLLGEEQMIQVNDKGEQKQKQEQVDVMLGRQGERMGLTGEPEGL  
NDGEWEQEDMERKAQGGGPEQGEERKRELQVPEENRADSQDEKSQTFLGKSEEVTKQE  
DHGIKEKGVPSVSGQEAKEPESWDGGRLGAVGRARSREEENEHHGSPMPALIAPEDSPHCD  
LFPGASYLMTQIPGTQTESRAEELSPAALSPSLEPIRCSHQPI SLLGSFLTEESPDKEID  
QNSQQEESRLRKGTVSSQGTEVVFASASVTPPRTPDSPAPPSPAEAYPI TPASVSARPPVA  
FPRRETSCAARAPETASAPLSMDPSPCGTSEMCPAALYGFSTGTSPPRPPANSTGTVQ  
HLRSDSFGSHRTEQTPDLVGMLLSYSHSELPQRPPKPAIYSSVTPRRDRRSGRDYSTVS  
ASPTALSTLKQDSQESISNLERPSSPPSIQPVWSPHNPAFATESPAYGSSPSFVSMEDVR  
IHEPLPPPPPPRRDTHPSVVDGTHARVVVPTLKQHSHPPLALGSLHAPHKGPLPQAS  
DPAVARQHRPLPSTPDSSHAQATPRWRYNKLPPTDLPQPHLPPISAPGSSRIYRPLP  
PLPIIDPPTPEPPPLPPKSRGRSRSTRGGHMNSGGHAKTRPACQDWTVPPLPASAGRTSWPP  
ATARSTESFTSTSRKSEVSPGMAFSNMTNFLCPSSPTTPWTPELQGPTSKDEAGVSEHP  
EAPAREPLRRTTPQQGASGPGRSFVGQARQPEKPSHLHLEKASSWPHRRDSGRPPGDSSG  
QAVAPSEGANKHKWSRQGLRRPSILPEGSSDSRGAPEKHGPGSDTVVFREKKPKVMG  
GFSRRCSKLINSSQLLYQEYSDVVLNKEIQSQQRLESLETPGPSSPRQPRKALVSSESY  
LQRLSMASGSLWQEIPVVRNSTVLLSMTHEDQKLQEVKFELIVSEASYLRSLNIAVDHF  
QLSTSLRATLSNQEHWLFSRLQDVRDVSATFLSDLEENFENNIFSFQVCDVVLNHAPDF  
RRVYLPVYTNQTYQERTFQSLMNSNSNFREVLEKLES DPVCQRLSLKSFLILPFQRITRL  
KLLLQNILKRTQPGSSEAEATKAHHALEQLIRDCNNNVQSMRTEELIYLSQKIEFECK  
IFPLISQSRWLKSGELTALEFSASPGLRRKLNTRPVHLHLFNDCLLSRPREGSRFLVF  
DHAPFSSIRGEKCEMKLHGPHKNLFRFLRQNTQGAQAEFLRTETQSEKLRWISALAMP  
REEDLLECYNSPQVQCLRAYKPRENDELALEKADVVMVTQQSSDGWLEGVRLSDGERGW  
FPVQQVEFISNPEVRAQNLKEAHRVKTAKLQLVEQQA

>sp|043307|ARHG9\_HUMAN Rho guanine nucleotide exchange factor 9 OS=Homo sapiens GN=ARHGEF9  
PE=1 SV=3

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FVRLWVNQEDEV EEGPSDVQNGHLDPNSDCLCLGRPLQNRDQMRANVINEIMSTERHYIK  
HLKDICEGYLKQCRKRRDMFSDQKLVIFGNIEDIYRFQMGFVRDLEKQYNNDPHLSEI  
GPCFLEHQDGFWIYSEYCNNHLDACMELSKLMKDSRYQHFFEACRLQKQKIDIAIDGFL  
TPVQKICKYPLQLAELLKYTAQDHSYRYVAAALAVMRNVTQQINERKRRLENIDKIAQW

QASVLWEGEDILDRSSEL IYTGEMAWIYQPYGRNQQRVFFLFDHQMVLCKKDLIRRDIL  
YYKGRIDMDKYEVVDIEDGRDDDFNVSMKNAFKLHNKETEEIHLFFAKKLEEKIRWLRAF  
REERKMVQEDEKIGFEISENQKRQAAMTVRKVPKQKGVNSARSVPPSYPPPQDPLNHGGY  
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>sp|Q9NZN5|ARHGC\_HUMAN Rho guanine nucleotide exchange factor 12 OS=Homo sapiens  
GN=ARHGEF12 PE=1 SV=1

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SRSEIYGLVQRCVIIQKDDNGFGLTVSGDNPVFVQSVKEDGAAMRAGVQTGDRIIKVNGT  
LVTHSNHLEVVKLIKSGSYVALTVQGRPPGSPQIPLADSEVEPSVIGHMSPIMTSPHSPG  
ASGNMERITSPVLMGEENNVDHNQKVEILRKMLQKEQERLQLQEDYNRTPAQRLIKEIQ  
EAKKHIPQLQEQLSKATGSAQDGAVVTPSRPLGDTLTVSEAETDPGDVLGRTDCSSGDAS  
RPSSDNADSPKSGPKERIYLEENPEKSETIQDQSLVSGSPSTRIAPHII GAEDDDFGT  
EHEQINGQCSCFQSIELLSRPAHLAVFLHHVVSQFDPATLLCYLYSDLYKHTNSKETRR  
IFLEFHQFFLDRSAHLKVSVPDEMSADLEKRPELIPEDLHRHYIQTMQERVHPEVQRHL  
EDFRQKRSMGLTLAESELTKLDAERDKDRLTLEKERTCAEQIVAKIEEVLMTAQAVEEDK  
SSTMQYVILMYMKHLGVKVKEPNLEHKRGRIGFLPKIKQSMKKDKEGEEKGKRRGFPSI  
LGPPRRPSRHDNSAIGRAMELQKARHPKHLSTPSSVSPEPQDSAKLRQSGLANEGTDAGY  
LPANSMSSVASGASFQEGGKENDTGSKQVGETSAPGDTLDGTPRTLNTVDFDPPPPLDQ  
VQEECEVERVTEHGT PKPFRKFDVAFGESQSEDEQFENDLETDPPNWQQLVSREVLLG  
LKPCIEIKRQEVINELFYTERAHVRTLVLDQVQYQVRSREGILSPSELRKIFSNLEDILQ  
LHIGLNEQMKAVRKRNETSVIDQIGEDLLTWFSGPGEELKHAAATFCSNQPFALMIKS  
RQKKDSRFQTFVQDAESNPLCRRLLQKDIIPTQMQLTKYPLLLDNI AKYTEWPTEREKV  
KKAADHCRQILNYVNQAVKEAENQRLQEDYQRRLDTSSKLSEYPNVEELRNLDLTRKRM  
IHEGPLVWKVNRDKTIDLYTLLEDILVLLQKQDDRLVLRCHSKILASTADSKHTFSPVI  
KLSTVLVRQVATDNKALFVISMNDGAQIYELVAQTVSEKTVWQDLICRMAASVKEQSTK  
PIPLPQSTPGEGDNDEEDPSKLKEEQHGISVTGLQSPDRDLGLESTLISSKPQSHSLSTS  
GKSEVRDLFVAERQFAKEQHTDGTLEKVGEDYQIAIPDSHLPVSEERWALDALRNGLLK  
QLLVQQLGLTEKSVQEDWQHFPYRTASQGPQTDSVIQNSENIKAYHSGEGHMPFRTGTG  
DIATCYSPTSTESFAPRDSVGLAPQDSQASNILVMDHMIMTPEMPTMEPEGGLDDSGEH  
FFDAREAHSDENPSEGDGAVNKEEKDVNLRISGNYLILDGYDPVQESSTDEEVASSLTLQ  
PMTGIPAVESTHQHQSPQNTSDGAISPFTPEFLVQQRWGAMEYSCFEIQSPSSCADSQ  
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>sp|O94989|ARHGF\_HUMAN Rho guanine nucleotide exchange factor 15 OS=Homo sapiens  
GN=ARHGEF15 PE=1 SV=4

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PKPSGSPCTPLPMAGVLAQNGSASAPGTVRRLAGRFEGGAEGRAQDADAPEPGLQARAD  
VNGEREAPLTGSGSQENGAPDAGLACPPCCPCVCHTTRPGLELRWVPVGGYEEVPRVPRR  
ASPLRTSRSRPHPPSIGHPAVVLTSYRSTAERKLLPLLKPPKPTRVRQDATIFGDPPQPD  
LDLLSEDGITQTDSPDEAPQNTPPATVEGREGLEVLKEQNWELPLQDEPLYQTYRAAV  
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SLFEVVTSEASYLRLRLTDTFVLSQALRDTLTPRDHHTLFSNVQVQGVSERFLATLL  
SRVRSSPHISDLCDVVHAHAVGPFVYVDYVRNQYQEETYSRLMDTNVRFS AELRRLQS  
LPKCERLPLPSFLLLPFQRITRLRMLLQNILRQTEEGSSRQENAQKALGAVSKI IERCSA

EVGRMKQTEELIRLTQRLRFHKVKALPLVSWSRLEFQGELTELGCRRGGVLFASRPFT  
PLCLLLFSDLLLITQPKSGQRLQVLDYAHRSLVQAQQVPDPSPGPPTFRLSLLSNHQGRPT  
HRLQASSLSDMQRWLGAFTPGPLPCSPDTIYEDCDCSQELCSESSAPAKTEGRSLESR  
AAPKHLHKTPEGWLKGLPGAFAQLVCEVTGEHERRHLRQNRLLAEVSSSGTPNAPP  
P

>sp|O95154|ARK73\_HUMAN Aflatoxin B1 aldehyde reductase member 3 OS=Homo sapiens GN=AKR7A3  
PE=1 SV=2

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LGLRLGGSDCRVKIDTKAIPFGNSLKPDSLRFQLETSKRLQCPRVDLFYLMHPDHSTP  
VEETLRACHQLHQEGKFVELGLSNYAWEVAEICTLCKSNGWILPTVYQGMYNITRQVE  
TELPCLRHFGLRFYAFNPLAGLLTGKYYEDKNGKQPVGRFFGNTWAEMYRNRWKEH  
HFEGIALVEKALQAAYGASAPSMTSATLRWYHHSQQLGAHGDAVILGMSSLEQLEQNLA  
AAEEGPLEPAVDAFNQAWHLVTHECPNYFR

>sp|Q8N8L6|ARL10\_HUMAN ADP-ribosylation factor-like protein 10 OS=Homo sapiens GN=ARL10  
PE=2 SV=1

MAPRPLGPLVLALGGAAVLGSLFILWKTYFGRGRERRWDRGEAWWGAEAAARLPEWDEW  
DPEDDEEPALEELQREVLVLGLDGAGKSTFLRVLSGKPPLEGHIPTWGFNSVRLPTK  
DFEVDLLEIGGSQNLRFYWKFEVSEVDVLVFFVDSADRLRLPWARQELHKLLDKDPDLPV  
VVVANKQDLSEAMSMGELQRELGLQAIDNQREVFLAASIAPAGPTFEETVHIWKLLL  
ELLS

>sp|Q6T311|ARL9\_HUMAN ADP-ribosylation factor-like protein 9 OS=Homo sapiens GN=ARL9 PE=2  
SV=1

MRPTWKALSHPAWPEEKNKQILVLGLDGAGKTSVLHSLASNRVQHSVAPTQGFHAVCINT  
EDSQMEFLEIGGSKPFRSYWEMYLSKGLLLIFVVDSDHSLPEAKKYLHQLIAANPVL  
LVVFANKQDLEAAHYITDIHEALALSEVGNDRKMFLFGTYLTNGSEIPSTMQDAKDLIA  
QLAADVQ

>sp|Q8N2F6|ARM10\_HUMAN Armadillo repeat-containing protein 10 OS=Homo sapiens GN=ARMC10  
PE=1 SV=1

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RSARPQTGGTWESQWSKTSQPEDLTDGSYDDVLNAEQLQKLLYLLESTEDPVIIERALIT  
LGNNAAFSVNQAIIRELGGIPIVANKINHSNQSIKEKALNALNLSNVNENQIKIKIYIS  
QVCEDVFGPLNSAVQLAGLTLLTNMTVTNDHQHMLHSYITDLFQVLLTGNGNTKVQVLK  
LLLNLSENPAITEGLLRAQVDSSFLSLYDSHVAKEILLRVLTFLQNIKNCLKIEGHLAVQ  
PTFTEGSLFFLLHGEECAQKIRALVDHDAEVKEKVVTIIPKI

>sp|Q5W041|ARMC3\_HUMAN Armadillo repeat-containing protein 3 OS=Homo sapiens GN=ARMC3  
PE=2 SV=2

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TTLLELGAVEPLTKLLTHEDKIVRRNATMIFGILASNNDVKLLRELDVMNSVIAQLAPE  
EEVVIHEFASLCLANMSAEYTSKVQIFEHGGLEPLIRLLSPDPDVKKNSMECIYNLVQD  
FQCRAKLQELNAIPPILDLLKSEYPVQLLALKTLGVIANDKESRTMLRDNQGLDHLIKI  
LETKELNDLHIEALAVIANCLEDMDTMVQIQQTGGLKKLSFAENSTIPDIQNAAKAIT  
KAAYDPENRKLFEHQVEKCLVALLGSENDGTKIAASQAISAMCENSGSKDFFNNQGIPQ  
LIQLKSDNEEVREAAALANLTCNPANANAAAEADGIDPLINLLSSKRDGAIANAAT  
VLTNMAQEPRLNIQNHDIMHAIISPLRSANTVVQSKAALAVTATACDVEARTELNSG

GLEPLVELLSKNDSEVRKHASWAVMVCAGDELTA  
NELCRLGALDILEEVNVS  
GTRKNKFS  
EAAYNKLLNNNSLKY  
SQTGYLSSSNI  
INDGFYDYGRINPGTKLLPLKELCLQEPSDLRA  
VLLINSKSYVSPSSMEDKSDVGYGRS  
ISSSSSLRRSSKEKNKNSYHFSAGFGSP  
IEDK  
SEPASGRNTVLSK  
SATKEKGWRKSKGKKEEEKVKEEEEV  
MVVPKFVGE  
GSSDKEWCPPSD  
PDFSMYVYEVTKSILPITNIKEQIEDLAKYVAEK  
MGGKIPKEKLPDFSWELHISELK  
FQL  
KSNVPIGHVKKGIFYHRALLFKALADRIGIGCSLVR  
GEYGRAWNEVMLQNDSRKGVIGG  
LPAPEMYVIDLMFHPGGLMKLRSREADLYRFI

>sp|Q96C12|ARMC5\_HUMAN Armadillo repeat-containing protein 5 OS=Homo sapiens GN=ARMC5  
PE=1 SV=2

MAAAKPTLTDSL  
SFCLAQLAAAAGEALGGEKDPATNETPLSRALLALR  
TRHIKAAGGIER  
FRARGGLRPLLALLRRAAAAGSAPSQAGPGSAPSSA  
ASGASSPAPASGPASAVSSSSPT  
PPVRLRKTLDLALSILADCTEGACRTEVRRLLGGIL  
PLVTILQCMKTDSIQNRTARALGN  
LAMEPESCGDIHCAGAVPLLVESLTACQDSQCLQSV  
VRALRNADSPQHRLALAQQGAVR  
PLAELLATAPDAALTALVRALLELSRGCSRACAEQL  
SLGGGLGPLVSLASHPKRAVREG  
TILILANLCAQGLIRPALGNAGGVEVLVDELRRQ  
RDPNGASPTSQQPLVRVAVCLLCREAI  
NRARLRDAGGLDLLMGLLRDPRA  
SAWHPRIVAALVGFLYDTGALGRLQALGLVPLLAGQL  
CGEAGEEEEEEGREAA  
SWDFPEERTPERAQGGSFRSLR  
SWLISEGYATGPDDISPDWSPEQ  
CPPEPMEPASPAPTPTSLRAPRTQRT  
PGRSPAAAIEEPWGREGPALLLSRFSQAPDPSG  
ALVTGPALYGLLTYVTGAPGPPSPRALRILSRLTC  
NPACLEAFVRSYGAAALLRAWLVLGV  
APDDWPAPRARPTLSHRHRELGERLLQNLTVQAE  
SPFGV  
GALTHLLSGSPEDRVACALT  
LPFICRKPSLWRRLLLEQGGLRLLAALTRPAPHPL  
FLFFAADSLSCLQDLVSPTVSPAV  
PQAVPMDLDSPSPCLYEPLLPAPVPAPDLHFLD  
SGLQLPAQRAASATASPFFRALLSG  
SFAEAQMDLVPLRGLSPGA  
AWPVLHHLHGCRGCGAALGPVPPPGPLL  
GSEAEAELEAAG  
RFLLPGLEEEEEEAVGRIHLGPQGGPESVGEV  
FRLGRPRLAAHCARWTLGSEQCPRKRGL  
ALVGLVEAAGEEAGPLTEALLAVVMGIELGARVPA

>sp|Q9H6L4|ARMC7\_HUMAN Armadillo repeat-containing protein 7 OS=Homo sapiens GN=ARMC7  
PE=1 SV=1

MAQKPKVDPHVGR  
LYLQALVTEFQETQSQDAKEQVLANLANFAYDPS  
NYEYLRQLQVLD  
LFLDSLSEENETLVEFAIGGLCNLCPDRANKEHIL  
HAGGVPLIINCLSSPNEETVLSAIT  
TLMHLSPPGRSFLPELTATPVVQCMLRFSLSASAR  
LRNLAQIFLEDFCSPRQVAEARSQ  
AHSALGIPLPRSVAPRQR

>sp|Q8IUR7|ARMC8\_HUMAN Armadillo repeat-containing protein 8 OS=Homo sapiens GN=ARMC8  
PE=1 SV=2

MACLLETPIRMSVLSEVTASSRHYVDRLFD  
PDPQKVLQGVIDMKNVIGNNKQKANLIVL  
GAVPRLLYLLQQETSSTELKTECAVVLGSLAMGT  
ENNVSLLDCHIIPALLQGLLSPDLK  
FIEACLRCLRTIFTSPVTPEELLYTDATVIPHLM  
ALLSRSYTQEYICQIFSHCCKGPDH  
QTILFNHGAVQNI  
AHLTSLSYKVRMQALKCFSVLAFENPQVSMTLVN  
VLVDGELLPQIF  
VKMLQRDKPIEMQLTSAKCLTYMCRAGAIRTD  
DNCIVLKTLPCLVRMCSKERLLEERVEG  
AETLAYLIEPDVELQRIASITDHLIAMLADYFKY  
PSSVSAITDIKRLDHD  
LKHAHEL  
RQA  
AFKLYASLGANDEDIRKKI  
IETENMMDRIVTGLSESSVKVRLAAVRCLHSL  
SRSVQQLRT  
SFQDHAVWKPLMKVLQ  
NAPDEILVVASSMLCNLLEFSPSKEPI  
LESGAVELLCGLTQSE  
NPALRVNGIWALMNAFQAEQIKADILRSLSTE  
QLFRLLSDSDLN  
VLMKTLGLLRNLLS  
TRPHIDKIMSTHGKIMQAVTLILEGEH  
NIEVKEQTLCILANIADGTTAKDLIMTND  
DIL  
QKIKYYMGHSHVKLQLAAMFCISNLIWNEE  
EGSQRQDKLRDMGIVDILHKLSQSPDSNL

CDKAKMALQQYLA

>sp|POC7Q2|ARMS2\_HUMAN Age-related maculopathy susceptibility protein 2 OS=Homo sapiens  
GN=ARMS2 PE=2 SV=1

MLRLYPGPMVTEAEGKGGPEMASLSSSVVPVSFISTLRESVLDPGVGGEGASDKQRSKLS  
LSHSMIPAAKIHTELCLPAFFSPAGTQRRFQQPQHHLTLSIIHTAAR

>sp|Q9P291|ARMX1\_HUMAN Armadillo repeat-containing X-linked protein 1 OS=Homo sapiens  
GN=ARMCX1 PE=1 SV=1

MGRTREAGCVAAGVIGAGACYCVYRLAWGRDENEKIWDEDEESTDTSEIGVETVKGAKT  
NAGAGSGAKLQGDSEVKPEVSLGLEDCPGVKEKAHSGSHSGGLEAKAKALFNTLKEQAS  
AKAGKGARVGTISGNRTLAPSLPCPGGRGGGCHPTRSGSRAGGRASGKSKGKARSKSTRA  
PATTWPVRGKFNFPYKIDDLISAPDLQKVLNILERTNDPFIQEVALVTLGNNAAYSFNQ  
NAIRELGGVPIIAKLKTKDPIIREKTYNALNNLSVNAENQGKIKTYISQVCDTMCRL  
DSAVQMAGLRLLTNMTVTNHYQHLLSYSPDFALLFLGNHFTKIQIMKLIINFTEPNAM  
TRELVSCKVPSELISLFNKEWDREILLNLTLENINDNIKNEGLASSRKEFSRSSLFFL  
FKESGVCVKKIKALANHNDLVVKVKVLKVLTKL

>sp|Q9UH62|ARMX3\_HUMAN Armadillo repeat-containing X-linked protein 3 OS=Homo sapiens  
GN=ARMCX3 PE=1 SV=1

MGYARKVGWVTAGLVIGAGACYCIYRLTRGRKQNEKMAEGGSGDVEDDAGDCSGARYNDW  
SDDDDDSNESKSIWYPPWARIGTEAGTRARARARARATARRAVQKRASPNSDDTVLSP  
QELQKVLCLVEMSEKPYILEAALIALGNNAAYAFNRDIIRDLGGLPIVAKILNTRDPIVK  
EKALIVLNNLSVNAENQRRLKVYMNQVCDTITSLNSSVQLAGLRLLTNMTVTNEYQHM  
LANSISDFFRLFSAGNEETKLQVLKLLNLAENPAMTRELLRAQVPSSLGSLFNKKENKE  
VILKLLVIFENINDNFKWEENEPTQNQFGEGLFFFLKEFQVCADKVLGIESHHDFLVKV  
KVGKFMAKLAEHMFPSQE

>sp|Q7L4S7|ARMX6\_HUMAN Protein ARMCX6 OS=Homo sapiens GN=ARMCX6 PE=2 SV=1

MGRAREVGWMAAGLMIGAGACYCVYKLTIGRDDSEKLEEEGEEWDDQELDEEEDPIWF  
DFETMARPWTEGDWTEPGAPGGTEDRPSGGGKANRAHPIKQRPFPYEHKNTWSAQCKN  
GSCVLDLSKCLFIQKGLFAEPKDAGFPFSQDINSHLASLSMARNTSPTPDPTVREALCA  
PDNLNASIESQGQIKMYINEVCRETVSRCCNSFLQQAGLNLISMTVINNMLAKSASDLK  
FPLISEGSGCAKVQVLKPLMGLSEKPVLAGELVGAQMLFSFMSLFIIRNGNREILLETPAP

>sp|Q9HBZ2|ARNT2\_HUMAN Aryl hydrocarbon receptor nuclear translocator 2 OS=Homo sapiens  
GN=ARNT2 PE=1 SV=2

MATPAAVNPPEMASDIPGSVTLVPAPMAATGQVRMAGAMPARGGKRRSGMDFDDEGE  
SKFSRENHSEIERRRRNKMTQYITELSDMVPTCSALARKPKDLTILMAVSHMKSMRGTG  
NKSTDGAYKPSFLTEQELKHLILEAADGFLFVAAETGRVIYVSDSVTPVLNQPQSEWFG  
STLYEQVHPDDVEKLREQLCTSENSMTGRILDLKTGTVKKEGQQSSMRMCMGSRRSFICR  
MRCGNAPLDHLPLNRITTRKRFRNGLGPVKEGEAQYAVVHCTGYIKAWPPAGMTIPEED  
ADVGGGSKYCLVAIGRLQVTSSPVCMDMNGMSVPTEFLSRHNSDGIITFVDPRCISVIGY  
QPQDLLGKDILEFCHPEDQSHLRESFQQVVKLKGQVLSVMYRFRTKNREWMLIRTSSFTF  
QNPYSDEIEYICTNTNVKQLQQQQAELVHQRDGLSSYDLSQVPVNPAPGVHEAGKSV  
EKADAIIFSQERDPRFAEMFAGISASEKKMMSSASAAGTQQIYSQGSPFSPGHSGKAFSSS  
VVHVPGVNDIQSSSTGQNMSQISRQLNQSQVAWTGSRPPFPQQIPSQSSKTQSSPFGI  
GTSHTYPADPSSYSPLSSPATSSPSGNAYSSLANRTPGFAESGQSSGQFQGRPSEVWSQW  
QSQHHGQQSGEQHSHQQPGQTEVFQDMLPMPGDPTQGTGNYNIEDFADLGMFPFSE

>sp|Q8IUZ5|AT2L2\_HUMAN 5-phosphohydroxy-L-lysine phospho-lyase OS=Homo sapiens GN=PHYKPL  
PE=1 SV=1

MAADQRPKADTLALRQRLISSSCRLFFPEDPVKIVRAQQQYMYDEQGAEYIDCISNVAHV  
GHCHPLVVQAAHEQNQVLNTNSRYLHDNIVDYAQRLETLPQLCVFYFLNSGSEANDLA  
LRLARHYTGHQDVVLDHAYHGHLSLIDISPYKFRNLGGKEVHVAPLPDITYRGPYRE  
DHPNPAMAYANEVSRVSSAQEKGRKIAAFFAESLPSVGGQIIPPAGYFSQVAEHIRKAG  
GVFVADEIQVGFGRVGKHFQWAFQLQGGKDFVPDIVTMGKSIGNHPVACVAATQPVARAFE  
ATGVEYFNTFGGSPVSCAVGLAVLNLEKEQLQDHATSVGSFLMQLLGQQKIKHPIVGDV  
RGVGLFIGVDLIKDEATRTPATTEEAAYLVSRLENYVLLSTDGPGRNILKFKPPMCFSLD  
NARQVVAKLDAILTDMEEKVRSCETLRLQP

>sp|Q5VTU8|AT5EL\_HUMAN ATP synthase subunit epsilon-like protein, mitochondrial OS=Homo  
sapiens GN=ATP5EP2 PE=3 SV=1

MVAYWRQAGLSYIRYSQICAKVVRDALKTEFKANAKTSGNSVKIVKVKE

>sp|O43520|AT8B1\_HUMAN Phospholipid-transporting ATPase IC OS=Homo sapiens GN=ATP8B1 PE=1  
SV=3

MSTERDSETTFDEDSQPNDDEVVPYSDDTEDELDQGSVEPEQNRVNREAEENREPFRK  
ECTWQVKANDRKYHEQPHFMNTKFLCIKESKYANNAIKTYKNAFTFIPMNLFEQFKRAA  
NLYFLALLILQAVPQISTLAWYTTLVPLLVVLGVTAIKDLVDDVARHKMDKEINNRTCEV  
IKDGRFKVAKWKEIQVGDVIRLKKNDVFPADILLSSSEPNSLCYVETAELDGETNLKFK  
MSLEITDQYLQREDTLATFDGFIIECEEPNNRLDKFTGTFLWRNTSFPLDADKILLRGCVI  
RNTDFCHGLVIFAGADTKIMKNSGKTRFKRTKIDYLMNYMVYTFVVLILLSAGLAIGHA  
YWEAQVGNSSWYLYDGEDDTPSYRGFLIFWGYIIVLNTMVPISLYVSVEVIRLGQSHFIN  
WDLQMYAAEKDTPAKARTTTLEQLGQIHIFSDKTGTLTQNMFTKKCCINGQIYGDHR  
DASQHNHNKIEQVDFSWNTYADGKLAFYDHYLIEQIQSGKEPEVRQFFFLAVCHTMVD  
RTDGLQNYQAASPDGALVNAARNFGFAFLARTQNTITISELGTERTYNVLAILDNFNSDR  
KRMSIIVRTPEGNIKLYCKGADTVIERLHRMNPTKQETQDALDIFANETLRTLCLCYKE  
IEEKEFTWNNKKFMAASVASTNRDEALDKVYEEIEKDLILLGATAIEDKLQDGPETISK  
LAKADIKIWWLTGDKKETAENIGFACELLTEDTTICYGEDINSLHARMENQRNRGGVYA  
KFAPPVQESFFPPGGRNALIITGSLWNEILLEKKTNRNKKILKLFPRTEEERRMRTQSKR  
RLEAKKEQRQKNFVDLACECSAVICCRVTPKQKAMVVDLVKRYKAITLAIGDGANDVNM  
IKTAHIGVGISGQEGMQAVMSSDYSFAQFRYLQRLLLVHGRWSYIRMCKFLRYFFYKNFA  
FTLVHFWSFFNGYSAQTAYEDWFITLYNVLYTSLPVLLMGLLDQDVSDKLSLRFPGLYI  
VGQRDLLFNYKRFFVSLHGVLTSMILFFIPLGAYLQTVGQDGEAPSDYQSFAVTIASAL  
VITVNFQIGLDTSYWTFFVNAFSIFGSIALYFGIMFDFHSAGIHVLFPSAFQFTGTASNAL  
RQPYIWLTIILAVAVCLLPVVAIRFLSMTIWPSESDKIQKHKRRLKAEQWQRRQQVFRR  
GVSTRRSAYAFSHQRGYADLISSGRSIRKKRSPLDAIVADGTAEYRRTGDS

>sp|P17544|ATF7\_HUMAN Cyclic AMP-dependent transcription factor ATF-7 OS=Homo sapiens  
GN=ATF7 PE=1 SV=2

MGDDRPFCNAPCGGQRFTNEDHLAVHKKHEMTLKFGPARTDSVIIADQTPTPTRFLKN  
CEEVGLFNELESSFEHEFKKADEDEKKARSRTVAKKLVAAGPLDMSLPSTPDIKIKEE  
EPVEVDSSPPDSPASSPCSPPLKEKEVTPKPVLISTPTPTIVRPGSLPLHLGYDPLHPTL  
PSPTSVITQAPPSNRQMGSPGSLPLVMHLANGQTMPVLPGPVQMPVISLARPVSMVP  
NIPGIPGPVNSSGSISSGHPIPSEAKMRLKATLTHQVSSINGCGMVVGTA STMVTAR  
PEQSQILIQHPDAPSPAQPQVSPAQPTPSTGGRRRRRTVDEDPDERRQRFLEARNRAAASRC

RQKRKLWVSSLEKKAELTSQNIQLSNEVTLLRNEVAQLKQLLLAHKDCPVTALQKKTQG  
YLESPKESSEPTGSPAPVIQHSSATAPSNGLSVRSAAEAVATSVLTQMASQRTELSMPIQ  
SHVIMTPQSQSAGR

>sp|Q2TAZ0|ATG2A\_HUMAN Autophagy-related protein 2 homolog A OS=Homo sapiens GN=ATG2A  
PE=1 SV=3

MSRWLWPWSNCVKERVCRYLLHHYLGHHFQEHLSDQLSLDLYKGSVALRDIHLEIWSVN  
EVLESMESEPLELVEGFVGSIEVAVPWAALLTDHCTVRVSGQLTLQPRRGPAAGAADSQS  
WASCMTSLQLAQECLRDGLPEPEPPQPLEGLEMFAQTIETVLRRIKVTFLDTVVRVEH  
SPGDGERGVAVEVRVQRLEYCDEAVRDPSPQAPPVDVHQPFAFLHKLLQLAGVRLHYEELP  
AQEEPPEPPLQIGSCSGYMELMVKLKQNEAFPGPKLEVAGQLGSLHLLLTTPRQLQLQEL  
LSAVSLTDHEGLADKLNKSRLGAEDLWLEQDLNQLQAGAVAEPLSPDPLTNPLNLD  
NTDLFFSMAGLTSSVASALSELSLSDVDLASSVRSDMASRRLSAQHPAGKMAPNPLD  
MRPDSLLKMTLGGVTLTLLQTSAPSSGPPDLATHFFTEFDATKDGPFGSRDFHHLRPRFQ  
RACPCSHVRLTGTAVQLSWELRTGSRGRRTSMEVHFGQLEVLECLWPRGTSEPEYTEIL  
TFPGTLGSQASARPCAHLRHTQILRRVPKSRPRRSVACHCHSELALDLANFQADVELGAL  
DRLAALLRLATVPAEPPAGLLTEPLPAMEQQTVFRLSAPRATLRLRFP IADLRPEPD  
GQAVRAEQLRLESEPQFRSELSSGPPVPVTHLELTCSDLHGIYEDGGKPPVPCLRVSK  
ALDPKSTGRKYFLPQVVVTNPNQSSSTQWEVAPEKGEELSVESPCELREPEPSPFSSK  
RTMYETEEMVIPGDPEEMRTFQSRTLALSRCSLEVILPSVHIFLPSKEVYESIYNRINND  
LLMWEPADLLTPDPAAQPSGFGPSPGFWDHDFKMKCSAFKLANCFDLTPDSDSDDEDAH  
FFSVGASGGPQAAPEAPSLHLQSTFSTLVTVLKGRITALCETKDEGGKRLEAVHGELVL  
DMEHGTLSFSVSQYCGQPGLGYFCLEAEKATLYHRAAVDDYPLPSHLDLPSFAPPAQLAPT  
IYPSEEGVTERGASGRKGQGRGPHMLSTAVRIHLDPHKNVKEFLVTLRLHKATLRHYMAL  
PEQSWHSQLEFLDVLDDPVLGYLPPTVITILHTHLFSCSVDIRPLYLPVRVLITAEFT  
LSSNIIMDTSTFLLRFILDDSAFYLSDKCEVETLDRRDYVCVLDVDLLELVIKTWKGST  
EGKLSQPLFELRCNNVVHVHSCADSCALLVNLLQYVMSTGDLHPPRPPSPTEIAGQKL  
SESPASLPSCPPVETALINQRDLADALDTERSRLRELAPSGGHLPQASPI SVYLF  
PGERSGAPPSPPVGGPAGSLGSCSEEKEDEREEEGDGTLDSEFCILDAPGLGIPPRD  
GEPVVTQLHPGP I VVRDGYFSRPIGSTDLLRAPAHFVPSTRVVLREVSLVWHLYGGRD  
FGPHPGHRARTGLSGPRSSPSRCSGPNRPQNSWRTQGGSGRQHHLVMEIQLSKVSFQ  
HEVYPAEPATGPAAPSQELEERPLSRQVFIVQELEVDRDLASSQINKFLYLHTSERMP  
RRAHSNMLTIKALHVAPTNNLGGPECCLRVSLMPLRLNVDQDALFFLKDFFTSLVAGIN  
PVVPGETSAEARPETRAQPSSPLEGQAEGVETTSQEAPGGGHSPSPDQQPIYFREFRFT  
SEVPIWLDYHGKHTMDQVGTFAGLLIGLAQLNCSELKLRCCRHGLLGVDKVLGYALNE  
WLQDIRKNQLPGLLGGVGPMHSVVQLFQGFRDLLWLP IEQYRKDGRLMRGLQRGAAS  
FGSSTASAALELSNRLVQAIQATAETVYDILSPAAPVSRSLQDKRSARRLRRGQQP  
ADLREGVAKAYDTVREGILDTAQ TICDVASRGHEQKGLTGAVGGVIRQLPPTVVKPL  
ILATEATSSLLGGMNRNQIVPDAHKDHALKWRSDSAQD

>sp|Q9Y4P1|ATG4B\_HUMAN Cysteine protease ATG4B OS=Homo sapiens GN=ATG4B PE=1 SV=2

MDAATLT YDTLRFAEFEDFPETSEPVWILGRKYSIFTEKDEILSDVASRLWFTYRKNFPA  
IGGTGPTSDTGWGCMLRCGQMIFAQALVCRHLGRDWRWTQKRQPD SYFSVLNAFIDRKD  
SYYSIHQIAQMGVGEKSGIQWYGPN T V A Q V L K K L A V F D T W S S L A V H I A M D N T V V M E E I R  
RLCRTSVPCAGATAFPADSDRHCGNFPAGAEVTNRPSWRPLVLLIPLRLGLTDINEAYV  
ETLKHCFMMPQSLGVIGGKPNSAHYFIGYVGEELIYLDPHTTQPAVEPTDGCFIGPDESFH



CQHPPCRMSIAELDPSIAVGFFCKTEDDFNDWCQQVKKLSLLGGALPMFELVELQPSHLA  
CPDVLNLSLDSSDVERLERFFDSEDEDFEILSL

>sp|Q8NHH9|ATLA2\_HUMAN Atlatin-2 OS=Homo sapiens GN=ATL2 PE=1 SV=2

MAEGDEAARGQQPHQGLWRRRRTSDPSAAVNHVSSTTSLGENYEDDDLVSDEVMMKKPCP  
VQIVLAHEDDHNFELEDEALEQILLQEHIRDLNIVVSVAGAFRKGKSFLLDFMLRYMYN  
KDSQSWIGGNEPLTGFTWRGGCERETGTGIQVWNEVFVIDRPNGTKVAVLLMDTQGAFDS  
QSTIKDCATVFALSTMTSSVQVYNLSQNIQEDDLQHLQLFTEYGRAMEEIIYQKPFQTLN  
FLIRDWSYPYEHSYGLEGGKQFLEKRLQVKQNQHEELQNVKHIHNCFSNLGCFLPHPG  
LKVATNPSPFDGRLKDIDEDFKRELRLNVLPLLLAPENLVEKEISGSKVTCRDLVEYFKAYI  
KIYQGEELPHPKSMLQATAEANNLAAGVAGARDTYCKSMEQVCGGDKPYIAPSDLERKHLN  
LKEVAIKQFRSVKMGGDEFCCRYYQDQLEAEIEETYANFIKHNDGKNIFYAARTPATLFA  
VMFAMYIISGLTGFIGLNSIAVLCNLVMGLALIFLCTWAYVKYSGEFREIGTVIDQIAET  
LWEQVLKPLGDNLMEEINIRQSVTNSIKAGLTDQVSHHARLKT

>sp|Q9H9F9|ARP5\_HUMAN Actin-related protein 5 OS=Homo sapiens GN=ACTR5 PE=1 SV=2

MAANVFPFRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQ  
FRAVCARGRGARGASGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHL  
GVSSQGCVDPHPIVLTEAVCNPLYSRQMMSELLFECYGIKPVAYGIDSLFSFYHNKPKNSM  
CSGLIISGGYQCTHVLPILEGRLDAKNCKRINLGGQAAGYLQRLQLKYPGHAAITLS  
RMEEILHEHSYIAEDYVEELHKWRCPDYYENNVHKMQLPFSSKLLGSTLTSEEKQERRQQ  
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLEDDGQMDQFHKALIELNMDSPEELQSY  
IQKLSIAVEQAKQKILQAEVNLEVDVDSKPEPTDLEQLEPSLEDVESMNDFDPLFSEET  
PGVEKPVTTVPVFNLAAHYQLFVGTERIRAPEIIFQPSLIGEEQAGIAETLQYILDRYP  
KDIQEMLVQNVFLTGGNTMYPGMKARMEKELLEMRPFRSSFQVQLASNPVLDAWYGARDW  
ALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG  
GGAGEQA

>sp|P49407|ARRB1\_HUMAN Beta-arrestin-1 OS=Homo sapiens GN=ARRB1 PE=1 SV=2

MGDKGTRVFKKASPNGLTVYLGRDFVDHIDLVPDVGVLVDPEYLKERRVYVTLTCA  
FRYGREDLDVLGLTFRKDLFVANVQSFPAPEDKKPLTRLQERLIKKLGEHAYPFTFEIP  
PNLPCSVTLQPGPEDTGKACGVDEYKAFCAENLEEKIHKRNSVRLVIRKVQYAPERPGP  
QPTAETTRQFLMSDKPLHLEASLDKEIYYHGEPISVNVHVTNNTNKTVKKIKISVRQYAD  
ICLFNTAQYKCPVAMEEADDTVAPSSTFCKVYTLTPFLANNREKRLALDGKLKHEDTNL  
ASSTLLREGANREILGIIVSYKVVKLVVSRGGLGDLASSDVAVELPFTLMHPKPKEEP  
PHREVPENETPVDTNLIELDTNDDIVFEDFARQLKGMKDDKEEEDGTGSPQLNNR

>sp|P32121|ARRB2\_HUMAN Beta-arrestin-2 OS=Homo sapiens GN=ARRB2 PE=1 SV=2

MGEKPGTRVFKKSSPNCKLTVYLGRDFVDHLDKVDVPDVGVLVDPDYLDKRVFVTLTC  
AFRYGREDLDVLGLSFRKDLFIATYQAFPPVPNPPRPPTRLQDRLLRKLQHAHPFFFTI  
PQNLPSCSVTLQPGPEDTGKACGVDFEIRAFCAKSLEEKSHKRNSVRLVIRKVQFAPEKPG  
PQPSAETTRHFLMSDRSLHLEASLDKELYHGEPLNVNVHVTNNTKTVKKIKVSVRQYA  
DICLFSTAQYKCPVAQLEQDDQVSPSSTFCKVYTITPLSDNREKRLALDGKLKHEDTN  
LASSTIVKEGANKEVLGILVSYRVKVKLVVSRGGDVSVLPFVLMHPKPHDHIPLPRPQS  
AAPETDVPVDTNLIEFDNTYATDDDIVFEDFARLRLKGMKDDDYDDQLC

>sp|Q8NCT1|ARRD4\_HUMAN Arrestin domain-containing protein 4 OS=Homo sapiens GN=ARRDC4  
PE=1 SV=3

MGGEAGCAAAGAEGRVKSGLVFEDERKGCYSSGETVAGHVLEASEPVALRALRLEAQ

GRATAAWGPSTCPRASASTAALAVFSEVEYLNVRSLREPPAGEGIILLQPGKHEFPFRF  
QLPSEPLVTSFTGKYGSIQYCVRAVLERPKVPDQSVKRELQVVSHVDVNTPALTPVLKT  
QEKMGVCWFFTSGPVSLSAKIERKGVCNGEAIPIYAEIENCSSRLIVPKAAIFQTQTYLA  
SGKTKTIRHMVANVRGNHIASGSTDTWNGKTLKIPVTPSILDCCIIRVDYSLAVYIHIP  
GAKKLMLELPLVIGTIPYNGFGSRNSSIASQFSMDMSWLTTLPEQPEAPPNYADVSEE  
EFSRHIPPYPQPPNCEGEVCCPVFACIQEFRFQPPPLYSEVDPHPSDVEESQPVSFIL

>sp|A6NEK1|ARRD5\_HUMAN Arrestin domain-containing protein 5 OS=Homo sapiens GN=ARRDC5  
PE=3 SV=2

MGDREECLSTPQPPMSVVKSIELVLPEDRIYLAGSSIKGQVILTLNSTLVDPIVKVELVG  
RGYVEWSEEAGASCDYSRNVICNNKADYVHKTKTFPVEDNWL SAGSHTFDFHFNLPRLP  
STFTSKFGHVIFYVQASCMGREHILAKKMYLLVQGTSTFHKETPFQNP LFVEAEEKVSY  
NCCRQGTVC LQIQMERNTFTPGKEVVFTTEINNQTSKCIKTVVFALYAHIQYEGFTPSAE  
RRSRLDSSSELLRQEANTPVTRFNTTKVVSTFNLPLLSVSSSTQDGEIMHTRYELVTTVH  
LPWSLTSLKAKVPIIITSASVDSAICQLSEDGVLPVNPDPHQN

>sp|P15848|ARSB\_HUMAN Arylsulfatase B OS=Homo sapiens GN=ARSB PE=1 SV=1

MGPRGAASLPRGPGPRRL LLPVVLPLLLLLLAPP GSGAGASRPHLVFLLADDLGWNDV  
GFHGSRI RTPHL DALAAGGVLLDNYTTQPLCTPSRSQLLTG RYQIRTGLQH QIIWPCQPS  
CVPLDEKLLPQLLKEAGYTTHMVGKWHLGMYRKECLPTRRGFD TYFGYLLGSEDYYSHER  
CTLIDALNVTRCALDFRDGEEVATGYKNMYSTNIFTKRAIALITNHPPEKPLFLYLALQS  
VHEPLQVPEEYLKPYDFIQDKNRHHYAGMVSLMDEAVGNVTAALKSSGLWNNTVFIFSTD  
NGGQTLAGGNWPLRGRKWSLWEGGVRGVGFVASPLLKQKGVKNRELIHISDWLPTLVKL  
ARGHTNGTKPLDGFVDWKTISEGSPSPRIELHNIDPNFVDSSPCPRNSMAPAKDDSSLP  
EYSAFN TVSHAAIRHGNWKL LTGYPGCGYWFP PPSQYNVSEIPSSDPPTKTLWLF DIDRD  
PEERHDL SREYPHI VTKLLSRLQFYHKHSVPVYFPAQDPRCDPKATGVWGPWM

>sp|Q8WXX1|ASB15\_HUMAN Ankyrin repeat and SOCS box protein 15 OS=Homo sapiens GN=ASB15  
PE=2 SV=3

MDTND DPDEDHLTSYDIQLSIQESIEASKTALC PERFVPLSAQNRKLVEAIKQGHIP ELQ  
EYVKYKYAMDEADEKGWFLHEAVVQPIQQILEIVLDASYKTLWEFKTC DGETPLT LAVK  
AGLVENVRTLLEKGVWPNTKN DKGETPLLI AVKKGSYDMVSTLIKHNTSLDQPCVKRWSA  
MHAAKQGRKDIVALLLKHGGNVHLRDGFGVTPLGVAAEYGHCDVLEHLIHKGGDVLALA  
DDGASVLF EAAGGNPNDCISLLLEYGGSGNVPNRAGHLP IHRAAYEGHYLALKYLIPVTS  
KNAIRKSGLTPIHSAADGQNAQCLELLIENGFDVNTLLADHISQSYDDERKTALYFGVSN  
NDVHCTEVLLAAGADPNLDPLNCLLVAVRANNYEIVRLLLSHGANVNCYFMHVNDTRFPS  
VIQYALNDEVMLRLLLNNGYQVEMCFDCMHGDIFGNSFWSEIQEEVLP GWTSCVIKDNP  
FCEFITVPWMKHLVGRVTRVLIDYMDYVPLCAKLKSALEVQREWPEIRQILENPCSLKHL  
CRLKIRRLMGLQKLCQPASVEKLP LPPAIQRYILFKEYDLYGQELKLT

>sp|Q9H672|ASB7\_HUMAN Ankyrin repeat and SOCS box protein 7 OS=Homo sapiens GN=ASB7 PE=1  
SV=2

MLHHHCRRNP ELQEELQIQAAVAAGDVHTVRKMLEQGYSPNGRDANGW TLLHFS AARGKE  
RCRVFLEHGADPTVKDLIGGFTALHYAAMHGRARIARLMLESEYRSDI INAKSNDGWTP  
LHVAAHYGRDSFVRLLLEFKA EVDPLSDKGTTPQLAIIRERSSCVKILLDHNANIDIQN  
GFLLRYAVIKSNHSYCRMFLQRGADTNLGRLEDGQTPLHLSALRDDVLCARMLYNYGADT  
NTRNYEGQTPLA VSISISGSSRPCLDLFLQEVTRQPRNLQDLCRIKIRQCIGLQNLKLLDE  
LPIAKVMKDYLKHKFDDI

>sp|Q96DX5|ASB9\_HUMAN Ankyrin repeat and SOCS box protein 9 OS=Homo sapiens GN=ASB9 PE=1 SV=1

MDGKQGGMDGSKPAGPRDFPGIRLLSNPLMGDAVSDWSPMHEAAIHGHQLSLRNLSIQGW  
AVNIITADHVSPLHEACLGGHLSVCVKILLKHGAQVNGVTADWHTPLFNACVSGSWDCVNL  
LLQHGSASVQPESDLASPIHEAARRGHVECVNSLIAYGGNIDHKISHLGTPLYLACENQQR  
ACVKKLLESGADVNQKGQDSPLHAVARTASEELACLLMDFGADTQAKNAEGKRPVELVP  
PESPLAQLFLEREGPPSLMQLCRLRIRKCFGIQHHKITKLVLPEDLKQFLLHL

>sp|Q99929|ASCL2\_HUMAN Achaete-scute homolog 2 OS=Homo sapiens GN=ASCL2 PE=1 SV=2

MDGGTLPRSAPPAPPVPVPGCAARRRPASPELLRCSRRRRPPATAETGGGAAAVARRNERER  
NRVKLVNLGFQALRQHVPHGGASKKLSKVETLRSAYEYIRALQRLLAEHDAVRNALAGGL  
RPQAVRPSAPRGPPTTPVAASPSRASSSPGRGGSSEPGSPRSAYSSDDSGCEGALSPAE  
RELLDFSSWLGGY

>sp|P07306|ASGR1\_HUMAN Asialoglycoprotein receptor 1 OS=Homo sapiens GN=ASGR1 PE=1 SV=2

MTKEYQDLQHLNDEESDHHQLRKGP PPPQPLLQRLCSGPRLLLLSLGLSLLLLVVVCVIG  
SQNSQLQEELRGLRETFNFTASTEAVKGLSTQGGNVGRKMKSLESQLEKQQKDLSHD  
SSLLLHV KQFVSDLRSLSCQMAALQGNISERTCCPVNWVEHERSCYWF SRSGKAWADADN  
YCRLEDAHLVVVTSWEEQKFVQHHIGPVNTWMGLHDQNGPWKWDGTDYETGFKNWRPEQ  
PDDWYGHGLGGGEDCAHFTDDGRWNDDVCQRPYRWVCETELDKASQEPPLL

>sp|Q9NY37|ASIC5\_HUMAN Acid-sensing ion channel 5 OS=Homo sapiens GN=ASIC5 PE=1 SV=1

MEQTEKSKVYAENGLLEKIKLCLSKKPLPSPTERKKFDHDFAI STSFHGIHNIVQNRSKI  
RRVLWL VVV LGSVSLVTWQIYIRLLNYFTWPTTTSIEVQYVEKMEFPAVTF CNLNR FQTD  
AVAKFGVIFFLWHIVSKVLHLQEITANSTGSREATDFAASHQNF SIVEFIRNKGFYLNNS  
TLLDCEFFGKPCSPKDFAHVFTEYGNCFTFNHGETLQAKRKVSVSGRGLSLLFNVNQEAF  
TDNPALGFVDAGIIFVIHSPKKVPQFDGLGLSPVGMHARVTIRQVKT VHQEYPWGECNP  
NIKLQNFSSYSTSGCLKECKAHIKKQCGCV PFLPGYGIECDLQKYFSCVSPVLDHIEF  
KDLCTVGTHNSSCPVSCEEIEYPATISYSSFPSQKALKYLSKKLNQSRKYIRENLVKIEI  
NYSDLNYKITQQQKAVSVSELLADLGGQLGLFCGASLITIEIEI EYLF TNFYWICIFLL  
KISEMTQWTPPPQNLGNKNRIEEC

>sp|Q92484|ASM3A\_HUMAN Acid sphingomyelinase-like phosphodiesterase 3a OS=Homo sapiens  
GN=SMPDL3A PE=1 SV=2

MALVRLAVCCLLTAWHCRSGLGLPVAPAGGRNPPPAIGQFWHVTDLHLDPTYHITDDHTK  
VCASSKGANASNPGFPGDVLCDSPLYQLILSAFDFIKNSGQEASFMIWTGDSPPHPVPPEL  
STDTVINVTNMTTITQSLFPNLQVFPALGNHDYWPQDQLPVVTSKVYNAVANLWKPWLD  
EEAISTLRKGGFYSQKVTTNPNLRIISLNTNLYYGNIMTLNKTDPANQFEWLESTLNNS  
QQNKEKVYIIAHVPVGYLPSSQNITAMREYYNEKLIDIFQKYSQV IAGQFYGHTRDSIM  
VLSDKKGSPVNSL FVAPAVTPVKS VLEKQTNNPGIRLFQYDPRDYKLLDMLQYYLNLTEA  
NLKGESIWKLEYILTQTYDIEDLQPESLYGLAKQFTILDSKQFIKYYNYFFVSYDSSVTC  
DKTCKAFQICAIMNLDNISYADCLKQLYIKHNY

>sp|Q12797|ASPH\_HUMAN Aspartyl/asparaginyl beta-hydroxylase OS=Homo sapiens GN=ASPH PE=1  
SV=3

MAQRKNAKSSGNSSSSSGSGSGSTSAGSSSPGARRETKHGGHKNGRKGGLSGTSFFTWFMV  
IALLGVWTSVAVVWFDLVDEEVLGKLGIYDADGDGDFVDDAKVLLGLKERSTSEPAVP  
PEEAEPHTEPEEQVPVEAEPQNIIDEAKEQIQSLLHEMVHAEHVEGEDLQQEDGPTGEPQ  
QEDDEFLMATDVDDRFTLEPEVSHEETEHSYHVEETVSQDCNQDMEEMMSEQENPDSSE

PVVEDERLHHD TDDVTYQVYEEQAVYEPLENEGIEITEVTAPPEDNPVEDSQVIVEEVS I  
FPVEEQQEVPPETNRKTDDPEQKAKVKKKPKLLNKFDKTIKAELDAAEKLKRKGKIEEA  
VNAFKELVRKYPQSPRARYGKAQCEDDLAEKRRSNEVLRGAIETYQEVASLPDVPADLLK  
LSLKRRSDRQQFLGHMRGSLTLQRLVQLFPNDTSLKNDLGVGYLLIGDNDNAKKVYEEV  
LSVTPNDGFAKVHYGFILKAQNKIAESIPYLKEGIESGDPGTDGGRFYFHLGDAMQRVGN  
KEAYKWYELGHRGHFASVWQSRSLYNVNLKAQPWWTPKETGYTELVKSLERNWKLIRDE  
GLAVMDKAKGLFLPEDENLREKGDWSQFTLWQQGRRNENACKGAPKTCTLLEKFPETTGC  
RRGQIKYSIMHPGTHVWPHTGPTNCRMLHMLGLVIPKEGCKIRCANETKTWEEGKVLIFD  
DSFEHEVWQDASSFRLIFIVDVHPELTPQQRSLPAI

>sp|Q76L83|ASXL2\_HUMAN Putative Polycomb group protein ASXL2 OS=Homo sapiens GN=ASXL2  
PE=1 SV=1

MREKGRKKGRTWAEAAKTVLEKYPNTPMHKEILQVIQREGLKEIRSGTSPLACLNAML  
HTNSRGEEGIFYKVPGRMGVYTLKKDVPDGVKELSEGSESSDGQSDSQSSSENSSSSSDG  
GSNKEGKKSRRWKRVSSSSPQSGCPSPTIPAGKVISPSQKHSKKALKQALKQQQKKQQQ  
QCRPSISISSNQHLSLKTVKAASDVPAPKATWEGKQSDGQTGSPQNSNSSFSSSVKVEN  
TLLGLGKKSFRSERLHTRQMKRTKCADIDVETPDSILVNTNLRALINKHTFSVLPGDCQ  
QRLLLLLPEVDQRVGPDGLMKLNGSALNNEFFTSAAGWKERLSEGEFTPEMQVRIRQEI  
EKEKKVEPWKEQFFESYQGSSGLSEDSKKLTASPSDPKVKKTPAEQPKSMPVSEASLI  
RIVPVVSQSECKEEALQMSSPGRKEECESQGEVQPNFSTSSEPLLSSALNTHELSSILPI  
KCPKDEDLLEQKPVTSAEQESKHNLTASNYNKSESQESLVTSPSKPKSPGVEKPIVKP  
TAGAGPQETNMKEPLATLVDQSPESLKRKSSLTQEEAPVSWEKRPRVTENRHHQPPFQVS  
PQPFLNRGDRIQVRKVPPLKIPVSRI SPMPFHPSQVSPRARFPVSITSPNRTGARTLADI  
KAKAQLVKAQRAAAAAAAAAAAAAASVGGTIPGPGPGGGQGPGEQGGQTARGGSPGSDRV  
SETGKGPTLELAGTSRGGTRELLPCGPETQPQSETKTTPSQAQPHSVSGAQLQQTTPVP  
PTPAVSGACTSVPSAHIEKLDNEKLNPTTRATATVASVSHPPQGPSSCRQEKA PSPTGPAL  
ISGASPVHCAADGTVELKAGPSKNIPNPSASSKTDASVPVAVTPSPLTSLTTATLEKLP  
VPQVSATTAPAGSAPPSSTLPAASSLKTPGTS LNMNGPTLRPTSSIPANNPLVTQLLQGK  
DVPMEQILPKPLTKVEMKTVP LTAKEERGMGAL IATNTTENSTREEVNERQSHPATQQQL  
GKTLQSKQLPQVPRPLQLFSAKELRDSSIDTHQYHEGLSKATQDQILQTLIQRVRRQNLL  
SVVPPSQFNFAHSGFQLEDISTSRFMLGFAGRRTSKPAMAGHYLLNISTYGRGSESFRR  
THSVNPEDRFCLSSPTEALKMGYTDCKNATGESSSSKEDDTDEESTGDEQESVTVKEEPQ  
VSQSAGKGTSSGPHSRETLS DCLASKNVKAEIPLNEQTLSKENYLFTRGQTFDEKT  
LARDLIQAAQKQMAHAVRGKAI RSSPELFSSTVLPLPADSPTHQPLLLPPLQTPKLYGSP  
TQIGPSYRGMINVSTSSMDHNSAVPGSQVSSNVGDVMSFSVTVTTPASQAMNPSSHGQ  
TIPVQAFSEENSI EGTPSKCYCRLKAMIMCKGCGAFCHDDCIGPSKLCVSCLVVR

>sp|O94823|AT10B\_HUMAN Probable phospholipid-transporting ATPase VB OS=Homo sapiens  
GN=ATP10B PE=2 SV=2

MALSVDSSWHRWQWRVDRDGFPHCPSETTPLLSPKGRQSYNLTQQRVFPNNSIFHQDWE  
EVSRYPGNRTCTTKYTLFTFLPRNLFEQFHRWANLYFLFLVILNWMPSMEVFHREITML  
PLAIVLFVIMIKGMEDFKRHRFDKAINCSNIRIYERKEQTYVQKCWKDV RVGDFIQMKC  
NEIVPADILLFSSDPNGICHLETASLDGETNLKQRCVVGKFSQQEVQFEPELFHNTIVC  
EKPNHNLNFKGYMEHPDQTRTGFCESLLLRGCTIRNTEMAVGIV IYAGHETKAMLNNS  
GPRYKRSKIERRMNIDIFFCIGILILMCLIGAVGHSIWNGTFEEHPPFDVPDANGSFLPS  
ALGGFYMFLTMIILLQVLIPISLYVSIELVKLGQVFFLSNDLDLYDEETDLSIQCRALNI

AEDLGQIQYIFSDKTGTLTENKMFRRCTIMGSEYSHQENAKRLETPKELDSGDGEWTQY  
QCLSFSARWAQDPATMRSQKGAQPLRRSQSARVPIQGHYRQRSMGHRESSQPPVAFSSSI  
EKDVTDPKNNLTKVRDAALWLETLSDSRPAKASLSTSSIADFFLALTICNSVMVSTTE  
PRQVRTIKPSSKALGTSLEKIQQLFQKLKLLSLSQSFSSTAPSDTDLGESLGANVATDS  
DERDDASVCSGGDSTDDGGYRSSMWDQGDILES GSGTSLEEAL EAPATDLARPEFCYAE  
SPDEAALVHAHAHAYSFTLVSRTP EQVTVRLPQGTCLTFSLCTLGFDSVRKRMSVVVRHP  
LTGEIVVYTKGADSVIMDLLED PACVPDINMEKKLRKIRARTQKHL DLYARDGLRTL CIA  
KKVVSEEDFRRWASFRREAEASLDNRDELLMETAQHLENQLTLLGATGIEDRLQEGVPDT  
IATLREAGIQLWVLTDGKQETAVNIAHSCRLNQTDTVYTINTENQETCESILNCALEEL  
KQFRELQKPKDRKLFGRFLPSKTPSITSEAVVPEAGLVIDGKTLNAIFQGKLEKKFLELTQ  
YCRSVLCCRSTPLQKSMIVKLVRDKLRVMTLSIGDGANDVSMIQAADIGIGISGQEGMQA  
VMSSDFAITRFKHLKLLLLVHGHWCYSRLARMVYYLYKNVCYVNNLFWYQFFCGFSST  
MIDYWQMIFFNLFSTLPLPVFGVLDKDISAETLLALPELYKSGQNSECYNLSTFWISMV  
DAFYQSLICFFIPYLAYKGSIDVFTFGTPINTISLTTILLHQAMEMKTWTIFHGVLLG  
SFLMYFLVSLLYNATCVICNSPTNPYWMEGQLSNPTFYLVCF LTPV VALLPRYFFLSLQ  
GTCGKSLISKAQKIDKLPPDKRNLEIQSWRSRQRPAPVPEVARPTHHPVSSITGQDFSAS  
TPKSSNPPKRKHVEESVLHEQRCGTECMRDDSCSGDSSAQLSSGEHLLGPNRIMAYSRGQ  
TDMCRCSKRSSHRSQSSLT I

>sp|Q9HD20|AT131\_HUMAN Manganese-transporting ATPase 13A1 OS=Homo sapiens GN=ATP13A1 PE=1  
SV=2

MAAAAVGNAVPCGARPCGVRPDGQPKPGPQPRALLAAGPALIANGDELVAAVWPYRRLA  
LLRRLTVLPFAGLLYPAWLGAAAAGCWGWGSSWVQIPEAALLVLATICLAHALTVLSGHW  
SVHAHCALCTPEYDPSKATFVKVPTPNNGSTELVALHRNEGEDGLEVLSEFEQKIKYS  
YDALEKKQFLPVAFVPGNAFSYYQSNRGFQEDSEIRAAEKKFGSNAEMVVPDFSELFKE  
RATAPFFVFQVFCVLWCLDEYWYYSVFTLSMLVAFEASLVQQQMRNMSEIRKMGNKPHM  
IQVYRSRKWRPIASDEIVPGDIVSIGRSPQENLVPCDVLLLRGRCIVDEAMLTGESVPQM  
KEPIEDLSPDRVLDLQADSRLHVFGGTKVVQHIPPQKATTGLKPVDSGCVAYVLRGTGN  
TSQGKLLRTILFGVKRVTANNLETFIFILFLLVFAIAAAAYVWIEGTKDPSRNRYKLFLE  
CTLILTSVVPPELPIELSLAVNTSLIALAKLYMYCTEPFRIPFAGKVEVCCFDKTGTLTS  
DSLVRGVAGLRDGKEVTPVSSIPVETHRALASCHSLMQLDDGTLVGDPLEKAMLTAVDW  
TLTKDEKVFPRSIKTQGLKIHQRHFHFSALKRMSVLASYEKLGSTDL CYIAAVKGAPETL  
HSMFSQCPPDYHHIHT EISREGARVLALGYKELGHLTHQQAREVKREALECSLKFGVFIV  
VSCPLKADSKAVIREIQNASHRVVMITGDNPLTACHVAQELHFIEKAHTLILQPPSEKGR  
QCEWRSIDGSIVLPLARGSPKALALEYALCLTGDGLAHLQATDPQQLRLIPHVQVFARV  
APKQKEFVITSLKELGYVTLMCGDGTNDVGALKHADVG VALLANAPERVVERRRRPRDSP  
TLNSGIRATSRTAKQRSGLPPSEEQPTSQRDRLSQVLRDLEDESTPIVKLGDA SIAAPF  
TSKLSSIQCICHVIKQGRCTLVTTLMQFKILALNALILAYSQSVLYLEGVKFSDFQATLQ  
GLLLAGCFLFISRSKPLKTL SRERPLPNIFNLYTILTVMLQFFVHFLSLVYLYREAQARS  
PEKQE QFVDLYKEFEPSLVNSTVYIMAMQMATFAINYKGPPFMESLPENKPLVWSLAV  
SLLAIIIGLLLGS SPDFNSQFGLVDIPVEFKLVIAQVLLLD FCLALLADRVLQFFLGTPKL  
KVPS

>sp|Q4VNC0|AT135\_HUMAN Probable cation-transporting ATPase 13A5 OS=Homo sapiens  
GN=ATP13A5 PE=2 SV=1

MEENSKKDHRALLNQGEEDLEVFGYRDHNVRKAFCLVASVLT CGGLLLVFYWRPQWRVW

ANCIPCPLEADTVLLRTTDEFQRYMRKKVFCLYLSTLKFPVSKKWEESLVADRHVINQ  
ALIKPELKLRCMEVQKIRYVWNDEKRFQKVGLLEDNSNSCSDIHQTFGLGLTSEEQEVRR  
LVCGPNAIEVEIQPIWKLLVKQVLNPFYVFAFTLTLWLSQGYIEYSVAIIILTVISIVL  
SVYDLRQQSVKLNHVEDHNKVQVTIIVKDKGLEELESRLLVPGDILILPGKFSLPCDAV  
LIDGSCVVNEGMLTGESIPVTKTLPQMENTMPWKCHSLEDYRKHVLFCEGTEVIQVKPSG  
QGPVRAVVLQTGYNTAKGDLVRSILYPRPLNFKLYSDAFKFIVFLACLGMGFFYALGVY  
MYHGVPPKDTVMTALILLTVTVPPVLPALITIGNVYAQKRLKKKIFCISPQRINMCGQI  
NLVCFDKTGTLTEDGLDLWGTVPADNCFQEAHSFASGQAVPWSPLCAAMASCHSLILLN  
GTIQGDPLDLKFEGTAWKMEDCIVDSCKFGTSVSNI IKPGPKASKSPVEAIITLCQFPF  
SSSLQRMSVIAQLAGENHFVYMKGAPEMVARFCRSETVPKNFPQELRSYTVQGFRVIAL  
AHKTLKMGNLSEVEHLAREKVESELTFGLLIMENRLKKEKLVKLSEARIRTVMITG  
DNLQTAITVAKNSEMIPPGSQV IIVEADEPEEFVPASVTWQLVENQETGPGKKEIYMHTG  
NSSTPRGEGGSCYHFAMSGKSYQVIFQHFNSSLPKILVNGTVFARMSPGQKSSLIEEFQK  
LNYYVGMCGDGANDCGALKAHAGISLSEQEASVASPFTSKTTNIQCVPHLIREGRAALV  
SSFGVKYLTMYGIIQFISALLLYWQLQLFGNYQYLMQDVAITLMVCLTMSSTHAYPKLA  
PYRPAGQLLSPPLLLSIFLNSCFSCIVQISAFLYVKQQPWYCEVYQYSECFLANQSNFST  
NVSLERNWTGNATLIPGSILSFETTTLPITTINYITVAFIFSKGKPFKPIYTNIFYSF  
LLLAALGLTIFILFSDQVIYRGMELIPTITSWRVLILVVALTQFCVAFFVEDSILQNH  
LWLLIKREFGFYSKSYRTWQKLAEDSTWPPINRTDYSGDGKNGFYINGGYESHEQIPK  
RKLLGGQPTEQHFWARL

>sp|P98194|AT2C1\_HUMAN Calcium-transporting ATPase type 2C member 1 OS=Homo sapiens  
GN=ATP2C1 PE=1 SV=3

MKVARFQKIPNGENETMIPVLTSKKASELPVSEVASILQADLQNLKCEVSHRRAFHW  
NEFDISEDEPLWKKYISQFKNPLIMLLASAVISVLMHQFDDAVSITVAILIVVTAVFVQ  
EYRSEKSLEELSKLVPPECHVREGKLEHTLARDLVPGDTVCLSVGDRVPADLRLFEAVD  
LSIDESSLTGETTPCSKVTAQPAATNGDLASRSNIAFMGTLVRCGAKAGVVIGTGENSE  
FGEVFKMMQAEAPKTPAQKMDLLGKQLSFYSFGIIGIIMLVGWLKGDILEMFTISVS  
LAVAAIPEGLPIVVTALAGVMRMVKKRAIVKKLPIVETLGCNVCSDKTGTLTKNEM  
TVTHIFTSGLHAEVTGVGYNQFGEVIVDGDVHGFYNPAVSRIVEAGCVCNDAVIRNNT  
LMGKPTGALIALAMKMGDLGQQDYIRKAEYFSSSEQWMAVKCVHRTQQDRPEICFMK  
GAYEQVIKYCTTYQSKGQTLTLTQQQRDVYQQEKARMGSAGLRVLALASGPGLQLTFLG  
LVGIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEID  
AMDVQQLSQIVPKVAVFYRASPRHKMKI IKSLLQKNGSVVAMTGDGVNDAVALKAADIGVA  
MGQTGTDVCKEADMILVDDDFQTIMSAIEEGKGIYNNIKNFVRFQLSTSIAALTLISLA  
TLMNFPNPLNAMQILWINIIMDGPPAQSLGVEPVKDVIKPPRNWKDSILTKNLILKIL  
VSSIIIVCGTLFVFWREL RDNVITPRDTMTFTCFVFFDMFNALSSRSQTKSVFEIGLCS  
NRMFCYAVLGSIMGQLLVIYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEI IKKVER  
SREKIQKHVSSTSSSFLEV

>sp|O15145|ARPC3\_HUMAN Actin-related protein 2/3 complex subunit 3 OS=Homo sapiens  
GN=ARPC3 PE=1 SV=3

MPAYHSSLMDPDTKLIGNMALLPIRSQFKGPAPRET KD TDIVDEAIYYFKANVFFKNYEI  
KNEADRTLIIYITLYISECLKKQKCNKSKQGEKEMYTLGITNFPIPGEPGFPLNAIYAKP  
ANKQEDEVMRAYLQQLRQETGLRLCEKVFDQNDKPSKWWTCFVKRQFMNKSLSGPGQ

>sp|Q7Z6K5|ARPIN\_HUMAN Arpin OS=Homo sapiens GN=ARPIN PE=1 SV=1

MSRIYHDGALRNKAVQSVRLPGAWDPAAHQGGNGVLLEGELIDVSRHSILDTHGRKERY  
VLYIRPSHIIHRRKFDAGKNEIEPNFSATRKVNTGFLMSSYKVEAKGDTDRLTPEALKGLV  
NKPELLALTESLTPDHTVAFWMPPESEMEVMELELGAGVRLKTRGDGPFLDSLAKLEAGTV  
TKCNFTGDGKTGASWTDNIMAQKCSKGAAAEIREQGDGAEEDEWDD

>sp|P36575|ARRC\_HUMAN Arrestin-C OS=Homo sapiens GN=ARR3 PE=1 SV=2

MSKVFKKTSSNGKLSIYLGKRDFVDHVDTVPEIDGVVLVDPEYLKCRKLFVMLTCAFRYG  
RDDLEVIGLTFRKDLYVQTLQVPAESSPQGPLTVLQERLLHLKLDNAYPFTLQMVNTL  
PCSVTLQPGPEDAGKPCGIDFEVKSFCAENPEETVSKRDYVRLVVRKVQFAPPEAGPGPS  
AQTIRRFLLSAQPLQLQAWMDREVHYHGEPISVNV SINNTNKVIKKIKISVDQITDVVL  
YSLDKYTKTVFIQEFTETVAANSSFSQSFAVTPILAASCQKRLALDGKLKHEDTNLASS  
TIIRPGMDKELLGILVSYKVRVNLMVSCGILGDLTASDVGVELPLVLIHPKPSHEAASS  
EDIVIEEFTRKGEESQKAVEAEGDEGS

>sp|P51690|ARSE\_HUMAN Arylsulfatase E OS=Homo sapiens GN=ARSE PE=1 SV=2

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GLPTNETTFAKILKEKGYATGLIGKWHLGLNCESASDHCHHPLHHGFDHFYGMPSLMGD  
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SYFVGALIVHADCFLMRNHTITEQPMCFQRTTPLILQEVASFLLKRNKHGPFLLFVSFLHV  
HIPLITMENFLGKSLHGLYGDNVEEMDWMVGRILDTLDVEGLSNSTLIYFTSDHGGLEN  
QLGNTQYGGWNGIYKGGKMGWEGGIRVPGIFRWPGVLPAGRVIGEPTSLMDVFPTVVR  
LAGGEVPQDRVIDGQDLLPLLLGTAQHSDFEFLMHYCFERFLHAARWHQRDRGTMWKVHFV  
TPVFQPEGAGACYGRKVCPCFGEKVHHDPPLLFDLSRDPSETHILTPASEPVFYQVMER  
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>sp|Q6UWY0|ARSK\_HUMAN Arylsulfatase K OS=Homo sapiens GN=ARSK PE=1 SV=1

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NFMKTRGTSFLNAYTNSPICCPSRAAMWSGLFTHLTESWNNFKGLDPNYTTWMDVMERHG  
YRTQKFGKLDYTSGHHSISNRVEAWTRDVAFLLRQEGRPMVNLIRNRTKVRVMERDQNT  
DKAVNWLKAEINYTEPFVIYLGNLNPHPYSPSSGENFGSSTFHTSLYWEKVSHTAIK  
IPKWSPLSEMHPVDYSSYTKNCTGRFTKKEIKNIRAFYYAMCAETDAMLGEIILALHQL  
DLLQKTIVYSSDHGELAMEHRQFYKMSMYEASAHVPLMMGPGIKAGLQVSNVSLVDI  
YPTMLDIAGIPLPQNLSGYSLPLSSETFKNEHKVKNLHPPWILSEFHGCNVNASTYMLR  
TNHWKYIAYS DGASILPQLFDLSSDPDEL TNVAVKFPEITYSLDQKLHSIINYPKVSASV  
HQYNKEQFIKWKQSIGQYNSNVIANLRWHQDWQKEPRKYENAIDQWLKTHMNPRAV

>sp|Q5T4W7|ARTN\_HUMAN Artemin OS=Homo sapiens GN=ARTN PE=1 SV=1

MELGLGGLSTLSHCPWRQQPALWPTLAALALLSSVAEASLGAPRSPAPREGPPPVLAS  
PAGHLPGGRTARWCGRARRPPPPQPSRPAPPPAPPSPALPRGGRAARAGGPGSRARAAGA  
RGCLRSQQLVPVRALGLGHRSEDLVRFRCGSGCRRARSPHDLASLLGAGALRPPPGS  
RPVSQPCCRPTRYEAVSFMDVNSTWRTVDRLSATACGCLG

>sp|000192|ARVC\_HUMAN Armadillo repeat protein deleted in velo-cardio-facial syndrome  
OS=Homo sapiens GN=ARVCF PE=1 SV=1

MEDCNVHSAASILASVKEQEARFERLTRALEQERRHVALQLERAQQPGMVSGMGSGGQPL  
PMAWQQLVLQEQSPGSQASLATMPEAPDVLEETVTVEEDPGTPTSHVSI VTSEDGTTTRT  
ETKVTKTVTVTTRTVRQVPVPGPDGLPLLDGGPPLGPFADGALDRHFLLRGGGPVATLSR  
AYLSSGGGFPEGPEPRDPSYGSLSRGLGMRPPRAGPLGPGPGDGCFTLPGHREAFPVGP

EPGPPGGRSLPERFQAEPYGLEDDTRSLAADDEGGPELEPDYGTATRRRPECGRGLHTRA  
YEDTADDGGELADERPAFPMVTAPLAQPERGSMGSLDRLVRRSPVDSARKEPRWRDPEL  
PEVLAMLRHPVDPVKANAAAYLQHLCFENEGVKRRVRQLRGLPLLVALLDHPRAEVRRA  
CGALRNLSYGRDTDNKAARDCGGVPALVRLLRAARDNEVRELVTGTLWNLSSYEPLKMV  
IIDHGLQTLTHEVIVPHSGWEREPNEDSKPRDAEWTTVFKNKTSGLRNVSSDGAEARRRL  
RECEGLVDALLHALQSAVGRKDTDNKSVENCVCIMRNLSYHVHKEVPGADRYQEAEPGPL  
GSAVGSQRRRRDDASCFGGKAKEEWFHQGKKDGEMDRNFDLTLDPKRTEAAKGFELLYQ  
PEVVRLLYSLLESERNFNTLEAAAGALQNL SAGNMMWATYIRATVRKERGLPVLVELLQS  
ETDKVVRVAIAIALRNLSLDRRNKDLIGSYAMAEVRNVRNAQAPPRPGACLEEDTVVAVL  
NTIHEIVSDSLDNARSLLQARGVPALVALVASSQSVREAKAASHVLQTVWSYKELRGTLQ  
KDGWTKARFQSAAATAKGPKGALSPGGFDDSTLPLVDKSLEGEKTGSRDVIPMDALGPDG  
YSTVDRRERRPRGASSAGEASEKEPLKLDPSRKAPPPGPSRPAVRLVDAVGDAKPQPVDS  
WV

>sp|A6NK59|ASB14\_HUMAN Ankyrin repeat and SOCS box protein 14 OS=Homo sapiens GN=ASB14  
PE=2 SV=2

MDNYTSDDEDIDEDFDTLIIQQSLQDIYKPGTAQHAPKDESLHSFLSADYKKIVETIEKV  
GKEDALSHLTKYHSAFGEADEIGWIPLHKAQVQLNRKILEITLSASDPSLWEQTTHNGET  
PLFLAVSSCLENATFLLLNGCNPNAKNFEGNSPLLAVALRDCYDMAALLINYGADVNL  
CANERTALHEAAKLGREDMVKMLLVSGAHPDPQSTYGFTPLALAAQSGHTEIMEMLLRKG  
KIFCLASDSSSILLEAASGGNPDAVALLLEYGADANIPKNSGHLPIHVAADRGHLLALKI  
LIPVTDLAAIKQSGISPVHCAAAGAHPQCLELLIQAGFDVNFMLDQRINKHYDDHRKSAL  
YFAVSNSDLSSVKLLLSAGALPNQDPVNCLQIALRMGNYELISLLLRHGANVNYFCRVNP  
LHFPSALQYTLKDEVMLRMLLNLYGYDTERCFDCPHGDKVHPSYTVEGWTSTVIKDTKFCE  
VITLSWLQHLSGKVVRVMDLYVDQVRICSKLKAVLQKQGIWSEIHFILTNPRSLKHLCL  
KIRKCMGRLLRCPVFMSFLPLPNRLKAYVLYKEYDLYGGGIFTGTW

>sp|Q7L266|ASGL1\_HUMAN Isoaspartyl peptidase/L-asparaginase OS=Homo sapiens GN=ASRGL1  
PE=1 SV=2

MNPIVVVHGGGAGPISKDRKERVHQGMVRAATVGYGILREGGSAVDAVEGAVVALEDDPE  
FNAGCGSVLNTNGEVEMDASIMDGKDL SAGAVSAVQCIANPIKLARLVMEKTPHCFLTDQ  
GAAQFAAAMGVPEIPGEKLVTERNKKRLEKEKHEKGAQKTDQCQKNLGTVGAVALDCKGNV  
AYATSTGGIVNKMVGRVGDSPCLGAGGYADNDIGAVSTTGHGESILKVNLARLTLFHIEQ  
GKTVEEAADLSLGYMKSrvKGLGGLIVVSKTGDWVAKWTSTSMWAAAKDGKLHFGIDPD  
DTTITDLP

>sp|P07307|ASGR2\_HUMAN Asialoglycoprotein receptor 2 OS=Homo sapiens GN=ASGR2 PE=1 SV=2

MAKDFQDIQQLSSEENDHPFHQGEQPGTRRLNPRRGNPFLKGPPPAQPLAQRLCSMVCFS  
LLLSFNILLLVICVTGSQSEGHGAQLQAE LRSLKEAFSNFSSSTL TEVQAISTHGGS  
VGDKITSLGAKLEKQQDLKADHDALLFHLKHFPVDLRFVACQMELLHSNGSQRTCCPVN  
WVEHQGSCYWFSSHGKAWAEAEKYCQLENAHLVVINSWEEQKFIVQHTNPFNTWIGLTDS  
DGSWKWVDGTDYRHNYKNWAVTQPDNWHGHELGGSEDCVEVQPDGRWNDDFCLQVYRWVC  
EKRRNATGEVA

>sp|Q9BVC5|ASHWN\_HUMAN Ashwin OS=Homo sapiens GN=C2orf49 PE=1 SV=1

MAGDVGGRSCTDSELLLHPELLSQEFLLLTLEQKNIAVETDVRVNKDSLTDLYVQHAIPL  
PQRDLPKNRWGKMMKEKKREQHEIKNETKRSSTVDGLRKRPLIVFDGSSTSTSIKVKKTEN  
GDNDRLKPPPQASFTSNAFRKLSNSSSSVSPLILSSNLPVNNKTEHNNNDKQNHDLTHR



KSPSPGVKSPPLSPVGTTPVKLKRAAPKEEAEAMNNLKPPQAKRKIQHVTWP

>sp|Q16515|ASIC2\_HUMAN Acid-sensing ion channel 2 OS=Homo sapiens GN=ASIC2 PE=1 SV=1

MDLKESPSEGLQPSIIFANTSTLHGIRHIFVYGPLTIRRVLWAVAFVGSGLLLVES  
SERVSYFYSYQHVTKVDEVVAQSLVFPVAVTLCNLNGFRFSRLTTNDLYHAGELLALLDVN  
LQIPDPHLADPSVLEALRQKANFKHYKPKQFSMLEFLHRVGHDLKDMMLYCKFKGQECGH  
QDFTTVFTKYGKCYMFNSGEDGKPLLTTVKGGTGNGLEIMLDIQQDEYLPWGETEETTF  
EAGVKVQIHSQSEPPFIQELGFGVAPGFQTFVATQEQRLTYLPPPWGECRSSEMGLDFFP  
VYSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLLAEKDSNYCLC  
RTPCNLTRYNKELSMVKIPSKTSAKYLEKKFNKSEKYISENILVLDIFFEALNYETIEQK  
KAYEVAALLDIGGQMGLFIGASILTILELFDYIYELIKEKLLDLLGKEEDEGSHDENVS  
TCDTMPNHSETISHTVNVPLQTTLGTLEEIAC

>sp|Q9UHC3|ASIC3\_HUMAN Acid-sensing ion channel 3 OS=Homo sapiens GN=ASIC3 PE=1 SV=2

MKPTSGPEEARPPASDIRVFASNCMHLGHVFGPGSLSLRRGMWAAAVVLSVATFLYQV  
AERVRYREFHHQTALDERESHRLIFPAVTLNINPLRRSRLTPNDLHWAGSALLGLDPA  
EHAFLRALGRPPAPPFGMPSPTFDMAQLYARAGHSLDDMLLDCRFRGQPCGPENFTTIF  
TRMGKCYTFNSGADGAELLTTTRGGMGNGLDIMLDVQQEEYLPVWRDNEETPFVGVIRVQ  
IHSQEEPPIIDQLGLGVSPGYQTFVSCQQQQLSFLPPPWGDCSSASLNPYEPEPSDPLG  
SPSPSPSPPYTLMGCRACETRYVARKCGCRMVYMPGDVPVCSPQQYKNAHPAIDAMLR  
KDSCACPNPCASTRYAKELSMVRIPSRAAARFLARKLNRSEAYIAENVLALDIFFEALNY  
ETVEQKKAYEMSELLDIGGQMGLFIGASLLTILEILDYLCEVFRDKVLGYFWNRQHSQR  
HSSTNLLQEGLGSHRTQVPHLSLGRPPPTPPCAVTKTLSASHRTCYLVTQL

>sp|P05023|AT1A1\_HUMAN Sodium/potassium-transporting ATPase subunit alpha-1 OS=Homo sapiens GN=ATP1A1 PE=1 SV=1

MGKGVGRDKYEPAAVSEQGDKKGKKGKKDRDMDELKKEVSMDDHKLSLDELHRKYGTDLS  
RGLTSARAAEILARDGNALTPPTTPEWIKFCRQLFGGFSMLLWIGAILCFLAYSIAAA  
TEEEPQNDNLYLGVVLSAVVIITGCFSYQEAQSSKIMESFKNMVPQQALVIRNGEKMSI  
NAEEVVVDLVEVKGGDRIPADLRISANGCKVDNSSLTGESEPQTRSPDFTNENPLETR  
NIAFFSTNCVEGTARGIVVYTGDRTVMGRIATLASGLEGGQTPIAAEIEHFIHIITGVAV  
FLGVSFFILSLILEYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKN  
LEAVETLGSTSTICSDKTGTLTQNRMTVAHMFWDNQIHEADTTENQSGVSFDKTSATWLA  
LSRIAGLCNRAVFQANQENLPILKRAVAGDASESALLKCIELCCGSVKEMRERYAKIVEI  
PFNSTNKYQLSIHKNPNTSEPQHLLVMKGAPERILDRCSSILLHGKEQPLDEELKDAFQN  
AYLELGGGLGERVLGFCHLFLPDEQFPEGFQFDTDDVNFPIDNLCFVGLISMIDPPRAAVP  
DAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPDA  
KACVVHGSDLKDMTSEQLDDILKYHTEIVFARTSPQQKLIIVEGCQRQGAIIVAVTGDGVN  
DSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVTGVEEGRIFDNLKKSIAAYTL  
TSNIPEITPFLIFIIANIPLPLGTVTILCIDLGTMVPAISLAYEQAESDIMKRQPRNPK  
TDKLVNERLISMAYGQIGMIQALGGFFTYFVILAENGFLPIHLLGLRVDWDDRWINDED  
SYGQQWTYEQRKIVEFTCHTAFFVSIVVVQWADLVICKTRRNSVFQQGMKNKILIFGLFE  
ETALAAFLSYCPGMGVALRMYPLKPTWWFCAPYSLLIFVYDEVKLIIRRRPGGWVEKE  
TTY

>sp|P50993|AT1A2\_HUMAN Sodium/potassium-transporting ATPase subunit alpha-2 OS=Homo sapiens GN=ATP1A2 PE=1 SV=1

MGRGAGREYSPAATTAENGGGKKKQKEKELDELKKEVAMDDHKLSLDELGRKYQVDLSKG

LTNQRAQDVLARDGPNALTPPPTPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAAME  
DEPSNDNLYLGVVLAADVIVTGCFSYQEAQSSKIMDSFKNMVPQQALVIREGEKMQINA  
EEVVVGDLVEVKGDRVPADLRIISSHGCKVDNSSLTGESEPQTRSPEFTHENPLETRNI  
CFFSTNCVEGTARGIVATGDRTVMGRIATLASGLEVGRTPIAMEIEHFIQLITGVAVFL  
GVSFFVLSLILGYSWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLE  
AVETLGSTSTICSDKTGTLTQNRMTVAHMFNQNIEADTTEDQSGATFDKRSPTWTALS  
RIAGLCNRAVFKAGQENISVSKRDAGDASESALLKCIELSCGSRKMRDRNPKVAEIPF  
NSTNKYQLSIHEREDSPQSHVLVMKGAPERILDRCSITLVQGEIPLDKEMQDAFQNAYM  
ELGGLGERVLGFCQLNLPSGKFPGRGKFDDELNFPTEKLCFVGLMSMIDPPRAAVPDAV  
GKCRSAGIKVIMVTGDHPITAKAIAGVGIISEGNETVEDIAARLNIPMSQVNPREAKAC  
VVHGSCLKDMTSEQLDEILKNHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSP  
ALKKADIGIAMGISGSDVSKQAADMILLDDNFASIVTGVEEGRILFDNLKKSIAITLTSN  
IPEITPFLFIIANIPLPLGTITILCIDLGTDMVPAISLAYEAAESDIMKRQPRNSQTDK  
LVNERLISMAYGQIGMIQALGGFFTYFVILAENGFLPSRLGIRLDWDDRTMNDLEDSYG  
QEWTYEQRKVVEFTCHTAFFASIVVQWADLIICKTRNSVFQQGMKNKILIFGLLEETA  
LAAFLSYCPGMGVALRMYPLKVTWWFCAFPYSLLIFIYDEVKRLILRRYPGGWVEKETYY

>sp|P13637|AT1A3\_HUMAN Sodium/potassium-transporting ATPase subunit alpha-3 OS=Homo sapiens GN=ATP1A3 PE=1 SV=3

MGDKKDDKDSPPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQE  
ILARDGPNALTPPPTPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNL  
YLGIVLAADVIIITGCFSYQEAQSSKIMESFKNMVPQQALVIREGEKMQVNAEEVVVGDL  
VEIKGGDRVPADLRIISAHGCKVDNSSLTGESEPQTRSPDCTHDNPLETRNITFFSTNCV  
EGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFFILS  
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGST  
STICSDKTGTLTQNRMTVAHMFNQNIEADTTEDQSGTSFQKSSHTWVALSHIAGLCNR  
AVFKGGQDNIPVLKRDVAGDASESALLKCIELSSGSVKLMRERNKKVAEIPFNSTNKYQL  
SIHETEDPNDNRYLLVMKGAPERILDRCSITLVQGEQPLDEEMKEAFQNAYLELGGGLGE  
RVLGFCCHYYLPEEQFPKGAFDCDDVNFTTDNLCFVGLMSMIDPPRAAVPDAVGKCRSAG  
IKVIMVTGDHPITAKAIAGVGIISEGNETVEDIAARLNIPVSQVNPRAKACV IHGTDL  
KDFTSEQIDEILQNHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADI  
GVAMGIAGSDVSKQAADMILLDDNFASIVTGVEEGRILFDNLKKSIAITLTSNIPEITPF  
LLFIMANIPLPLGTITILCIDLGTDMVPAISLAYEAAESDIMKRQPRNPRTDKLVNERLI  
SMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSYGQWTYEQ  
RKVVEFTCHTAFFVSIVVQWADLIICKTRNSVFQQGMKNKILIFGLFEETALAAFLSY  
CPGMDVALRMYPLKPSWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETYY

>sp|O14983|AT2A1\_HUMAN Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 OS=Homo sapiens GN=ATP2A1 PE=1 SV=1

MEAAHAKTTEECLAYFGVSETTGLTPDQVKRNLEKYGLNELPAEEGKTLWELVIEQFEDL  
LVRIILLAAACISFVLAWFEEGEETITAFVEPFVILLILIANAIVGVWQERNAENAIEALK  
EYEPENMGKVYRADRSVQRIKARDIVPGDIVEVAVGDKVPADIRILAIKSTTLRVDQSIL  
TGESVSVIKHTEPVPDPRAVNQDKKNMLFSGTNIAAGKALGIVATTGVGTEIGKIRDQMA  
ATEQDKTPLQKQKLEFGEQLSKVISLICVAVWLINIGHFNDPVHGGSWFRGAIYYFKIAV  
ALAVAAIPEGLPAVITTCALGTRMAKKNAIVRSLPSVETLGCTSVICSDDKTGTLTTNQ  
MSVCKMFIIDKVDGDIKLLNEFSITGSTYAPEGEVLKNDKPVPRPGQYDGLVELATICALC

NDSSLDNFNEAKGVYEKVGATETALTTLVEKMNVFNTDVRSLSKVERANACNSVIRQLMK  
KEFTLEFSRDRKSMSVYCSPAKSSRAAVGNKMFVKGAPEGVIDRCNYVRVGTTTRVPLTGP  
VKEKIMAVIKEWGTGRDTRLCLALATRDTPPKREEMVLDDARSFLEYETDLTFVGVVGM  
DPPRKEVTGSIQLCRDAGIRVIMITGDNKGTAIAICRRIGIFGENEEVADRAYTGREFDD  
LPLAEQREACRRACCFARVEPSHKS KIVEYLQSYDEITAMTGDGVNDAPALKKAEIGIAM  
GSGTAVAKTASEMVLADDNFSTIVA AVEEGRAIYNNMKQFIRYLISNVGEVVCIFLTAA  
LGLPEALIPVQLLWVNLVTDGLPATALGFNPPDLDIMDRPPRSPKEPLISGWLFFRYMAI  
GGYVGAATVGAAAWFLYAEDGPHVNYSQLTHFMQCTEDNTHFEGIDCEVFEAPEPMTMA  
LSVLVTIEMCNALNSLSENQSLLRMPWVNIWLLGSICLSMSLHFLILYVDPLPMIFKLR  
ALDLTQWLMVLKISLPVIGLDEILKFVARNYLEDPEDERRK

>sp|P16615|AT2A2\_HUMAN Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 OS=Homo sapiens GN=ATP2A2 PE=1 SV=1

MENAHKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLELVIEQFEDL  
LVRILLAAACISFVLAWFEEGEETITAFVEPFVILLILVANAIVGVWQERNAENAIEALK  
EYEPENMGKVVYRQDRKSVQRIKAKDIVPGDIVEIAVGDKVPADIRLTSIKSTTLRVDQSIL  
TGESVSVIKHTDPVPDPRAVNQDKKNMLFSGTNIAAGKAMGVVATGVNTEIGKIRDEM  
ATEQERTPLQKQLDEFGELSKVISLICI AVWIINIGHFNDPVHGGSWIRGAIIYFKIAV  
ALAVAAIPEGLPAVITTCALGTRMAKKNAIVRSLPSVETLGTCSVICSDKTGTLTNNQ  
MSVCRMFI LDRVEGDTCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALC  
NDSALDYNEAKGVYEKVGATETALTCLVEKMNVFDTCLKGLSKIERANACNSVIKQLMK  
KEFTLEFSRDRKSMSVYCTPNKPSRTSMKMFVKGAPEGVIDRCTHIRVGSTKVPMTSGV  
KQKIMSVIREWGS SDTLRCLALATHDNPLRREEMHLED SANFIKYETNLTFVGCVGMLD  
PPRIEVASSVKLCRQAGIRVIMITGDNKGTAIAICRRIGIFGQDEDVTSKFTGREFDEL  
NPSAQRDA CLNARCFARVEPSHKS KIVEFLQSFDEITAMTGDGVNDAPALKKAEIGIAMG  
SGTAVAKTASEMVLADDNFSTIVA AVEEGRAIYNNMKQFIRYLISNVGEVVCIFLTAAL  
GFPEALIPVQLLWVNLVTDGLPATALGFNPPDLIMNKPPRNPKEPLISGWLFFRYLAIG  
CYVGAATVGAAAWFIAADGGPRVSFYQLSHFLQCKEDNPDFEGVDCAIFESPYPMTMAL  
SVLVTIEMCNALNSLSENQSLLRMPWENIWLVGSI CLSMSLHFLILYVEPLPLIFQITP  
LNVTQWLMVLKISLPVILMDETLKFVARNYLEPGKECVQPATKSCSFSACTDGISWPFVL  
LIMPLVIWVYSTDTNFS DMFWS

>sp|Q01814|AT2B2\_HUMAN Plasma membrane calcium-transporting ATPase 2 OS=Homo sapiens GN=ATP2B2 PE=1 SV=2

MGDMTNSDFYSKNQRNESSHGGEFGCTMEELRSLMELRGTEAVVKIKETYGDTEAICRRL  
KTSPVEGLPGTAPDLEKRRKQIFGQNFIPPKPKTFLQLVWEALQDVTLIILEIAAIIISLG  
LSFYHPPGEGNEGCATAQGGAEDEGEAEAGWIEGAAILLSVICCVLVTA FNDSKEKQFR  
GLQSRIEQEQKFTVVRAGQVVQIPVAEIVVG DIAQVKYGDLLPADGLFIQGNL KIDESS  
LTGESDQVRKSVDKDPMLLSGTHVMEGSRMLVTAVGVNSQTGIIFTLLGAGGEEEEKKD  
KKGVKKGDGLQLPAADGAAASNAADSANASLVNGKMQDGNVDASQSKAKQQDGAAAMEMQ  
PLKSAEGGDADDRKASMHKKEKSVLQGLTKLAVQIGKAGLVMSAITV IILVLYFTVDT  
FVVNKKPWLPECTPVYVQYFVKFFIIGVTVLVAVPEGLPLAVTISLAYS VKKMMKDN  
VRHLDACETMGNATAICSDKTGTLTNRMTVVQAYVGDVHYKEIPDPSSINTKTMELLIN  
AIAINSAYTTKILPPEKEGALPRQVGNKTECGLLGFVLDLKQDYEPVRSQMPEEKLYKVY  
TFNSVRKSMSTVIKLPDESFRMYSGASEIVLKKCKILNGAGEPRVFRPRDRDEMVKKV  
IEPMACDGLRTICVAYRDFPSSPEPDWDNENDILNELTCICVVGIEDPVRPEVPEAIRKC

QRAGITVRMVTGDNINTARAIKCGIIHPGEDFLCLEGKEFNRRIRNEKGEIEQERIDK  
IWPKLRLVARSSPTDKHTLVKGIIDSTHTEQRQVVAVTGDGTNDGPALKKADVGFAMGIA  
GTDVAKEASDIILTDDNFSSIVKAVMWGRNVYDSISKFLQFQLTVNVVAVIVAFTGACIT  
QDSPLKAVQMLWVNLIMDTFASLALATEPPTETLLLRKPYGRNKPLISRTMMKNILGHAV  
YQLALIFTLLFVGEKMFQIDSGRNAPLHSPPEHYTIIFNFTVMMQLFNEINARKIHGER  
NVFDGIFRNPIFCTIVLGTFAIQIVIVQFGGKPFSCSPLQLDQWMWCIFIGLGELVWGQV  
IATIPTSRLKFLKEAGRLTQKEEIPPEELNEDVEEIDHAERELRRGQILWFRGLNRIQTQ  
IRVVKAFRSSLYEGLEKPESTRSIHNFMAHPEFRIEDSQPHIPLIDDTDEEDAALKQNS  
SPPSSLNKNNSAIDSGINLTDTTSKTSATSSSPGSPHISLETSL

>sp|P23634|AT2B4\_HUMAN Plasma membrane calcium-transporting ATPase 4 OS=Homo sapiens  
GN=ATP2B4 PE=1 SV=2

MTNPSDRVLPANSMAESREGDFGCTVMELRKLMELRSDALTQINVHYGGVQNLCSRLKT  
SPVEGLSGNPADLEKRRQVFGHNVIPPKPKTFLELVWEALQDVTLLIILEIAAIIISLVLS  
FYRPAGEENELCGQVATTPEDENEAQAGWIEGAAILFSVIVVLVTAFNDSKEKQFRGL  
QCRIEQEQKFSIIRNGQLIQLPVAEIVVGDIAQVKYGDLLPADGILIQNDLKIDESSLT  
GESDHVKKSLDKDPMLLSGTHVMEGSGRMVVTAVGVNSQTGIILTLLGVNEDDEGEKKKK  
GKKQGVPENRNKAKTQDGALEIQPLNSQEGIDNEEKDKKAVKVPKKEKSVLQGKLTRLA  
VQIGKAGLLMSALTVFILILYFVIDNFVINRRPWLPECTPIYIQYFVKFFIIGITVLVVA  
VPEGLPLAVTISLAYSVKMMKDNVLVRHLDACETMGNATAICSDKTGTLTMNRMTVVQA  
YIGGIHYRQIPSPDVFLLPKVLDLIVNGISINSAYTSKILPPEKEGGLPRQVGNKTECALL  
GFVTDLKQDYQAVRNEVPPEEKLYKVYTFNSVRKSMSTVIRNPNNGGFRMYSGASEIILRK  
CNRILDRKGEAVPFKNKDRDDMVRTVIEPMACDGLRTICIAYRDFDDTEPSWDNENEILT  
ELTCIAVVGIEDPVRPEVPDAIAKCKQAGITVRMVTGDNINTARAIATKCGILTPGDDFL  
CLEGKEFNRLIRNEKGEVEQEKLKIWPKLRLVARSSPTDKHTLVKGIIDSTVGEHRQVV  
AVTGDGTNDGPALKKADVGFAMGIA GTDVAKEASDIILTDDNFSSIVKAVMWGRNVYDSI  
SKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTFASLALATEPPTESLL  
KRRPYGRNKPLISRTMMKNILGHAFYQLIVIFILVFAGEKFFDIDSGRKAPLHSPPSQHY  
TIVFNFTVLMQLFNEINSRKIHGEKNVFSGIYRNIIFCSVVLGTFICQIFIVEFGGKPF  
CTSLSLSQWLWCLFIGIGELLWGQFISAIPTSLKFLKEAGHGTTEEITKDAEGLDEID  
HAEMELRRGQILWFRGLNRIQTQIDVINTFTGASFKGVLRRQNMGGHLDVKLVPSSSYI  
KVVKAFHSSLHESI QKPYNQKSIHSFMTHPEFAIEELPRTPLLDEEEENPDKASKFGT  
RVLLLDGEVTPYANTNNNAVDCNQVQLPQSDSSLQSLETSV

>sp|P18859|ATP5J\_HUMAN ATP synthase-coupling factor 6, mitochondrial OS=Homo sapiens  
GN=ATP5J PE=1 SV=1

MILQRLFRFSSVIRSAVSVHLRRNIGVTAVAFNKELDPIQKLFVDKIREYKSKRQTSGGP  
VDASSEYQQELERELFKLKQMFGNADMNTFPTFKFEDPKFEVIEKPQA

>sp|Q9NQS1|AVEN\_HUMAN Cell death regulator Aven OS=Homo sapiens GN=AVEN PE=1 SV=1

MQAERGARGGRRRPGRGRPGGDRHSERPGAAAAVARGGGGGGGGGGGRRGRGRGRGFR  
GARGGRGGGAPRGSRRPGWGAGASAPVEDDSDAETYGEENDEQGNYSKRKIVSNWDR  
YQDIEKEVNNESGESQRTDFSVLLSSAGDSFSQFRFAEEKEWDSEASCPKQNSAFYVDS  
ELLVRALQELPLCLRLNVAELVQGTVPLEVPQVKPKRTDDGKGLGMQLKGPLPGGGRGP  
IFELKSVAAGCPVLLGKDNPSGPSRDSQKPTSPLQSAGDHLEELDLLLLNLDAPIKEGD  
NILPDQTSQDLKSKEDGEVVQEEVCAKPSVTEENMEPEQPSTSKNVTEEELEDWLDISM  
IS

>sp|Q8NBF6|AVL9\_HUMAN Late secretory pathway protein AVL9 homolog OS=Homo sapiens GN=AVL9  
PE=1 SV=1

MEKARRGGDGVPRGPVLHIVVVGFFHKKGCQVEFSYPPLIPGDGHSHTLPEEWKYL PFL  
ALPDGAHNYQEDTVFFHLPPRNGNGATVFGISCYRQIEAKALKVRQADITRETQKSV CV  
LSKLPLYGLLQAKLQLITHAYFEEKDFSQISILKELYEHMNSSLGASLEGSQVYLG LSP  
RDLVLHFRHKVLILFKLILLEKKVLFYISPVNKLVGALMTVLSLFPGMIEHGLSDCSQYR  
PRKSMSEDGGLQESNPCADDFVSASTADVSHNTLGTIRKVMAGNHGEDAAMKTEEPLFQV  
EDSSKGQEPNDTNQYLKPPSRSPDSSSEDWETLDPSVLEDPNLKEREQLGSDQTNLFPK  
DSVPSESLPITVQPQANTGQVVLIPGLISGLEEDQYGMPLAIFTKGYLCLPYMALQQHHL  
LSDVTVRGFVAGATNILFRQKHLSDAIVEVEEALIQIHDPELRKLLNPTTADLRFADYL  
VRHVTENRDDVFLDGTGWEGGDEWIRAQFAVYIHALLAATLQLDNEKILSDYGTTFVTAW  
KNTHNYRVWNSNKH PALAEINPNHPFQGGQYSVSDMKLRFSHSVQNSERGGKIGNVMVTTS  
RNVVQTGKAVGQSVGGAFSSAKTAMSSWLSTFTTSTSQSLTEPPDEKP

>sp|Q9Y2C3|B3GT5\_HUMAN Beta-1,3-galactosyltransferase 5 OS=Homo sapiens GN=B3GALT5 PE=2  
SV=1

MAFPKMRLMYICLLVLGALCLYFSMYSLNPFKEQSFVYKKDGNFLKLPDTCRQTPPFLV  
LLVTSSHKQLAERMAIRQTWGERMVKGKQLKTFLLGTSSAAETKEVDQESQRHGDII  
QKDFLDVYYNLTKTMMGIEWVHRFCPQA AFVMKTDSDMFINVDYLTELLLKKNRTTRFF  
TGFLKLNEFPIRQPFKWFVSKSEYPWDRYPPFCSGTGYVFSGDVASQVYNVSKSVPIK  
LEDVFVGLCLERLNIRLEELHSQPTFFPGGLRFSVCLFRRIVACHFIKPRTLDDYWQALE  
NSRGEDCPPV

>sp|Q96L58|B3GT6\_HUMAN Beta-1,3-galactosyltransferase 6 OS=Homo sapiens GN=B3GALT6 PE=1  
SV=2

MKLLRRAWRRRAALGLGTLALCGAALLYLARCAAEPGDPRAMSGRSPPPPAPARAAFLA  
VLVASAPRAAERRSVIRSTWLARRGAPGDVWARFAVG TAGLGAEEERRALEREQARHGDLL  
LLPALRDAYENLTAKVLAMLAWLDEHVAFEFVLKADDDSFARLDALLAELRAREPARRRR  
LYWGFFSGRGRVKPGGRWREAAWQLCDYYLPYALGGGYVLSADLVHYLR LSRDYLRAWHS  
EDVSLGAWLAPVDVQREHDPFRDTEYRSRGCSNQYLVTHKQSLEDMLEKHATLAREGR LC  
KREVQLRLSYVYDWSAPPSQCCQRREGIP

>sp|Q00973|B4GN1\_HUMAN Beta-1,4 N-acetylgalactosaminyltransferase 1 OS=Homo sapiens  
GN=B4GALNT1 PE=1 SV=2

MWLGRRALCALVLLACASLG LLYASTRDAPGLRLPLAPWAPPQSPRRPELPDLAPEPRY  
AHIPVRIKEQVVGLLAWNNCSCSSGGGLPLPFQKQVRAIDLTKAFDPAELRAASATREQ  
EFQAFLSRSQSPADQLLIAPANSPLQYPLQGVEVQPLRSILVPGLSLQAASGQEVYQVNL  
TASLGTDWVAGEVTGVTLTGEGQADLT LVSPGLDQLNRQLQLVTYSSRSYQTN TADTVRF  
STEGHEAAFTIRIRHPPNRLYPPGSLPQGAQYNISALVTIATKTFLRYDRLRALITSIR  
RFYPTVTVVIADSDKPERVSGPYVEHYLMPFGKGFAGRNLA VSQVTKYVLWVDDDFV  
FTARTRLERLVDLERTPLDLVGAVREISGFATTYRQLLSVEPGAPGLGNCLRQRRGFH  
HELVGFPFCVVTGDVVNFFLARTDKVREVGFD PRLSRVAHLEFFLDGLGSLRVGSCSDVV  
VDHASKLKL PWTSRDAGAETYARYRYPGSLDESQMAKHRLFFKHRLQCMTSQ

>sp|O95429|BAG4\_HUMAN BAG family molecular chaperone regulator 4 OS=Homo sapiens GN=BAG4  
PE=1 SV=1

MSALRRSGYGPSDGYGRYYGPGGDDVPVHPPPLYPLRPEPPQPPISWRVRGGGPAET  
TWLGE GGGG DYYP SGGA WPEPGRAGGSHQE QPPYPSYNSNYWNSTARSRAPYPSTYPVR

PELQGQSLNSYTNAYGPTYPPGPGANTASYSGAYYAPGYTQTSYSTVEPSTYRSSGNSP  
TPVSRWIYPQQDCQTEAPPLRGQVPGYPPSQNPGMTLPHYPYGDGNRSVPQSGPTVRPQE  
DAWASPGAYGMGGRYWPSSAPSAPPGNLYMTESTSPWPSSGSPQSPSPPPVQPKDSSY  
PYSQSDQSMNRHNFPCSVHQYESSGTVNDDSDLLDSQVQYSAEPQLYGNATSDHPNNQD  
QSSSLPEECVPSDESTPPSIKKIIHVLEKVQYLEQEVEEFVGKKTDKAYWLLLEMLTKEL  
LELDSVETGGQDSVRQARKEAVCKIQAILEKLEKKGL

>sp|Q13072|BAGE1\_HUMAN B melanoma antigen 1 OS=Homo sapiens GN=BAGE PE=2 SV=1  
MAARAVFLALSAQLLQARLMKEESPVVSWRLEPEDGTALCFIF

>sp|Q8N9N5|BANP\_HUMAN Protein BANP OS=Homo sapiens GN=BANP PE=1 SV=3  
MMSEHDLADVQIAVEDLSPDHPVLENHVVTDEDEPALKRQRLEINCQDPSIKTICLRL  
DSIEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVVPQTTV  
ILNNDQRNAIVAKMEDPLSNRAPDSLENVISNAVPGRRQNTIVVKVPGQEDSHHEDGESG  
SEASDSVSSCGAGSQSIGSNVTLITLNSEEDYPNGTWLGDENNPEMRVRCIIPSDMLH  
ISTNCRTAEKMALTLDDLFLHREVQAVSNLSGQKGKHKQLDPLTIYGIRCHLFYKFGIT  
ESDWYRIKQSIDSKRTAWRRKQRGQSLAVKSFSRRTPNSSSYCPSEPMSTPPPASELP  
QPQPQPQALHYALANAQQVQIHQIGEDGQVQVGHLLHIAQVPQGEQVQITQDSEGNLQIHH  
VGQDGQLLEATRIPCLLAPSVFKASSGQVLQGAQLIAVASSDPAAAGVDGSPLQGSQDIQV  
QYVQLAPVSDHTAGAQTAELQPTLQPEMQLEHGAIQIQ

>sp|Q92560|BAP1\_HUMAN Ubiquitin carboxyl-terminal hydrolase BAP1 OS=Homo sapiens GN=BAP1  
PE=1 SV=2

MNKGWLELESDPGLFTLLVEDFGVKGVQVEEIIDLQSKCQGPVYGFIFLFWIEERRSR  
KVSTLVDDTSVIDDDIVNNMFFAHQLIPNSCATHALLSVLLNCSSVDLGPTLSRMKDFTK  
GFSPESKGYAIGNAPELAKAHNSHARPEPRHLPEKQNGLSAVRTMEAFHFVSYVPIITGRL  
FELDGLKVYPIDHGPWGEDEEWDKARRVIMERIGLATAGEPYHDIRFNLMAVVPDRRIK  
YEARLHVLKVNQRTVLEALQQLIRVTQPELIQTHKSQESQLPEESKSASNKSPVLEANR  
APAASEGNHTDGAEEAAGSCAQAPSHSPNPKPLVVKPPGSSLNGVHPNPTPIVQRLPAF  
LDNHNYAKSPMQEEEDLAAGVGRSRVPVRPPQQYSDDDDYEDDEEDDVQNTNSALRYKG  
KGTGKPGALSGSADGQLSVLQPNTINVLAELKESQKDLSIPLSIKTSSGAGSPAVAVPT  
HSQPSPTPSNESTDTASEIGSAFNSPLRSPIRSANPTRPSSPVTSHISKVLFGEDDSLRL  
VDCIRYNRAVRDLGPVISTGLLHLAEDGVLSPALTEGGKGSSPSIRPIQGSQSSSPVE  
KEVVEATDSREKTGMVRPGEPLSGEKYSPKELLALLKCVEAEIANYEACLKEEVEKRKKF  
KIDDQRRTHNYDEFICTFISMLAQEGMLANLVEQNISVRRRQGVSIGRLHKQRKPDRRKR  
SRPYKAKRQ

>sp|P51572|BAP31\_HUMAN B-cell receptor-associated protein 31 OS=Homo sapiens GN=BCAP31  
PE=1 SV=3

MSLQWTAVATFLYAEVFFVLLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILV  
LLVIDAVREIRKYDDVTEKVNQNNPGAMEHFHMKLFRAQRNLYIAGFSLLLSFLLRRLV  
TLISQQATLLASNEAFKKQAESASEAAKKYMEENDQLKKGAADVGGKLDVGNAEVKLEEE  
NRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDRLLLEEHAQLAAVDGP  
MDKKEE

>sp|Q16520|BATF\_HUMAN Basic leucine zipper transcriptional factor ATF-like OS=Homo  
sapiens GN=BATF PE=1 SV=1

MPHSSDSSDSSFSRPPPGQDSSDDVRRVQRREKNRIAAQKSQRQTQKADTLHLESED  
LEKQNAALRKEIKQLTEELKYFTSVLNSHEPLCSVLAASTPSPPEVVYSAHAFHQPHVSS

PRFQP

>sp|Q9UIG0|BAZ1B\_HUMAN Tyrosine-protein kinase BAZ1B OS=Homo sapiens GN=BAZ1B PE=1 SV=2

MAPLLGRKPFPLVKPLPGEEPLFTIPHTQEAFRTREEYEARLERYSERIWTCKSTGSSQL  
THKEAWEEEQEVAEELLKEEFPAYEKLVLVMVHNTASLEKLVDTAWLEIMTKYAVGEEC  
DFEVGKEKMLKVKIVKIHPLEKVDEEATEKKSDGACDSPSSDKENSSQIAQDHQKKETVV  
KEDEGRRESINDRARRSPRKLPTSLKKGERKWAPPKFLPHKYDVKLQNEDKIISNVPADS  
LIRTERPPNKEIVRYFIRHNALRAGTGENAPWVVEDELVKKYSLSKFSDFLLDPYKMT  
LNPSTKRKNTGSPDRKPSKSKTDNSSLSSPLNPKLWCHVHLKKSLSGSPLKVNSKNSK  
SPEEHLEEMMMSPNKLHTNFHIPKKGPPAKKPGKHSKPLKAKGRSKGILNGQKSTGN  
SKSPKKGLKTPKTKMKQMTLLDMAKGTQKMTRAPRNSGGTPRTSSKPHKHLPPAALHLIA  
YYKENKDREDKRSALSCVISKTARLLSSEDRARLPEELRSLVKRYELLEHKKRWASMSE  
EQRKEYLKKKREELKKLKEKAKERREKEMLERLEKQKRYEDQELTGKNLPAFRLVDTP  
GLPNTLFGDVAMVVEFLSCYSGLLLPDAQYPITAVSLMEALSADKGGFLYLNRLVILLQ  
TLLQDEIAEDYGLGMKLSEIPLTLHSVSELVRLCLRRSDVQEESEGSTDDNKDSAAFE  
DNEVQDEFLEKLETSEFFELTSEEKLQILTALCHRILMTYSVQDHMETRQQMSAELWKE  
LAVLKEENDKKRAEKQKRKEMEAKNKENGKVENGLGKTRKKEIVKFEPQVDTEADMIS  
AVKSRRLAIQAKKEREIQEREMKVKLERQAEERIRKHKAAAFAKQEGIAKAKLVMRR  
TPIGTRNHNRYWLFSDVPGLFIEKGWVHDSIDYRFNHHCKDHTVSGDEDYCPRSKAN  
LGKNASMTQHGTEVAVETTPKQGQNLWFLCDSQKELDELLNCLHPQGIRESQLKER  
LEKRYQDIHSHLARKPNLGLKSCDGNQELNFLRSDLIEVATRLQKGGGLGYVEETSEF  
EARVISLEKLKDFGECVIALQASVIKKFLQGFMAPKQKRRKLQSEDSAKTEEVDEEKKMV  
EEAKVASALEKWKTAIREAQTFSRMHVLLGMLDACIKWMSAENARCKVCRKKGEDDKLI  
LCDECNKAFHLFCLRPALYEPDGEWQCPACQPATARRNSRGRNYTEESASEDSEDDSD  
EEEEEEEEEEEEEDYEVAGRLRPRKTIRGKHSVIPPAARSGRRPGKKPHSTRSQPKAP  
PVDDAEVDELVLQTKRSSRRQSLLELQKCEEILHKIVKYRFSWPFREPVRDEADYDV  
I THPMDFQTVQNKSCGSYRSVQEFLTDMKQVFTNAEVYNCRGSHVLSMVKTEQCLVALL  
HKHLPGHYPVRRKRKKFPDRLAEDEGDSEPEAVGQSRGRRQKK

>sp|Q9BXH1|BBC3\_HUMAN Bcl-2-binding component 3 OS=Homo sapiens GN=BBC3 PE=1 SV=1

MARARQEGSSPEPVEGLARDGPRPFPLGRLVPSAVSCGLCEPLAAAPAPTLLPAAYLC  
APTAPPAVTAALGGSRWPGGPRSRPRGPRPDGPQPSLSLAEQHLESPVPSAPGALAGGPT  
QAAPGVRGEEQWAREIGAQLRRMADDLNAQYERRRQEEQQRHRPSPWRVLYNLIMGLLP  
LPRGHRAPEMEPN

>sp|Q6ZW61|BBS12\_HUMAN Bardet-Biedl syndrome 12 protein OS=Homo sapiens GN=BBS12 PE=1 SV=2

MVMACRVVNKRHRMGLQQLSSFAETGRFTLGPLKSSKFIIDEECHESVLISSTVRLLES  
DLTSAVGQLLNEAVQAQNNYRTGISTLLFLVGAWSSAVEECLHLGVPISIIIVSMSEGL  
NFCSEEVVSLHVPVHNIFDCMDSTKTFSQLETFSVSLCPFLQVPSDTDLIEELHGLKDVA  
SQTLTISNLSGRPLKSYELFKPQTKVEADNNTSRTLKNSLLADTCCRQSILIHSHFNRT  
DNTEGVSKPDGFGQEHVTATHKTYRCNDLVELAVGLSHGDHSSMKLVEEAVQLQYQNACVQ  
QGNCTKPFMFDISRIFTCLPLPETSSCPCGYITVVSVSNNPVIKELQNQPVRIVLIE  
GDLTENYRHLGFNKSANIKTVLDSMRLQEDSSEELWANHVLLQVLIQFKVNLVLVQGNVSE  
RLIEKCINSKRLVIGSVNGSVMQAFAEAAGAVQVAYITQVNEDCVGDGVCVTFWRSSPLD  
VVDRNNRIAILLKTEGINLVAVLTNPVTAQMQUIKEDRFWTCAYRLYYALKEEKVFLGGG  
AVEFLCLSCLHILAEQSLKKENHACSGWLHNTSSWLASSLAIYRPTVLKFLANGWQKYL

TLlyNTANYsSEFEASTYIQHHLQnATDSGSPSSyILNEYSKLNSRIFNSDISNKLEQIP  
RVYDVVTPKIEAWRRALDLVLLVLQTDSEIITGHGHTQINSQELTGFLFL

>sp|Q96RK4|BBS4\_HUMAN Bardet-Biedl syndrome 4 protein OS=Homo sapiens GN=BBS4 PE=1 SV=2

MAEERVATRTQFPVSTESQKPRQKKAPEFPILeKQNWLIHLHYIRKDYEACKAVIKEQLQ  
ETQGLCEYAIYVQALIFRLEGNIQESLELFQTCAVLSPQSADNLKQVARSLFLLGKHKAA  
IEVYNEAAKLNQKDEWESHNLGVCYIYLKQFNKAQDQLHNALNLRHDLTYIMLGKIHL  
EGDLKAIEVYKKAVERFSPENTELLTTLGLLYLQLGIYQKAFELGNALTYDPTNYKAIL  
AAGSMQTHGDFDVALTKYRVVACAVPESPPLWNNIGMCFFGKKKYVAAISCLKRANYLA  
PFDWKILYNLGLVHLMQYASAFHLSAAINFQPKMGELYMLLAVALTNLEDIENAKRA  
YAEAVHLDKCNPLVNLNYAVLLYNQGEKKNALAQYQEMEKKVSLLKDNSSLEFDSEMVEM  
AQKLGAAALQVGEALVWTKPVKDPKSKHQTTSTSKPASFQQPLGSNQALGQAMSSAAAYRT  
LPAGAGGTSQFTKPPSLPLEPEPAVESSPTETSEQIREK

>sp|Q9H165|BC11A\_HUMAN B-cell lymphoma/leukemia 11A OS=Homo sapiens GN=BCL11A PE=1 SV=2

MSRRKQKGPQHLSKREFSPEPLEAILTDDEPDHGLGAPEGDHLLTCGQCQMNFPGLDI  
LIFIEHKRKQCNGSLCLEKAVDKPPSPSPIEMKKASNPVEVGIQVTPEDDDCLSTSSRGI  
CPKQEHIAKLLHWRGLSSPRSAHGALIPTPGMSAEYAPQGICKDEPSSYTCTTCKQPFT  
SAWFLQHAQNTHGLRIYLESEHGSPLTPRVGIPSGLGAECPSQPPLHGIHIADNNPFNL  
LRIPGSVSREASGLAEGRFPPTPLFSPPPRHHLDPHRIERLGAEMALATHHPSAFDRV  
LRLNPMAMEPPAMDFSRRRLRELAGNTSSPPLSPGRPSPMQRLLQPFQPGSKPPFLATPPL  
PPLQSAPPPSPQPVKSKSCEFCGKTFKFQSNLVVHRRSHTGEKPYKCNLCDHACTQASKL  
KRHMKTHMHKSSPMTVKSDGLSTASSPEPGTSDLVGSASSALKSVVAKFKSENDPNLIP  
ENGDEEEEEDEEEEEEEEEEEEEELTESERVDYGFGLSLEAARHHENSSRGAVVGVGDES  
RALPDVMQGMVLSSMQHFSEAFHQVLGEKHKRGHLAEAGHRDTCDEDSVAGESDRIDDG  
TVNGRGCSPGESASGGLSKLLLGSPSSLSPFSKRIKLEKEFDLPPAAMPNTENVYSQWL  
AGYAASRQLKDPFLSFGDSRQSPFASSSEHSSENGSLRFSTPPGELDGGISGRSGTGSGG  
STPHISGPGPRSSKEGRRSDTCEYCGKVFKNCSNLTVHRRSHTGERPYKCELCNYACA  
QSSKLTRHMKTHGQVGKDVYKCEICKMPFSVYSTLEKHMKKWHSRVLNNDIKTE

>sp|Q9BYV7|BCD02\_HUMAN Beta, beta-carotene 9',10'-oxygenase OS=Homo sapiens GN=BCO2 PE=1  
SV=5

MFFRVFLHFIRSHSATAVDLPLVMVHRLPVFKRYMGNTPQKKAVFGQCRGLPCVAPLLTT  
VEEAPRGISARVWGHPKWLNGSLLRIGPGKFEFGDKYNHWFDMALLHQFRMAKGTVT  
YRSKFLQSDTYKANSKNRIVISEFGTLALPDCKNVFERFMSRFELPGKAAAMTDNTNV  
NYVRYKGDYYLTETNFMNKVDIETLEKTEKVDWSKFIANGATAHPHYDLGTAYNMGN  
SFGPYGFSYKIVRPPEKVDLGETIHGVQVICSIASTEKGKPSYYHSFGMTRNYIIFIEQ  
PLKMNWLKIATSKIRGAFSDGISWEPQCNTRFHVVEKRTGQLLPGRYYSKPFVTFHQIN  
AFEDQGCVIIDLCCQDNGRTLEVYQLQNLRKAGEGLDQVHNSAAKSFPRRFVLPLNVSLN  
APEGDNLSPLSYTSASAVKQADGTIWCShENLHQEDLEKEGGIEFPQIYYDRFSGKKYHF  
FYGCGFRHLVGDSLIVKDVVNKTLKVVWREDGFYPSEPVFVPAPGTNEEDGGVILSVVITP  
NQNESNFILVLDAKNFEELGRAEVPVQMPYGFHGTFIPI

>sp|Q8N888|BCOR2\_HUMAN Putative BCoR-like protein 2 OS=Homo sapiens GN=BCORP1 PE=5 SV=1

MKEKLSKKRAEVKGNRSWLEEFKPSDNEEGPPPKNKVLSNNASSQKPTHSSCIPLRLP  
DKQQKVNESIKTMDLCTDKEEECPAASLLQKYTNNSEKPSGKRQCKTKHLISQDLRQGFL  
LTGKCYVENADGKIPLGTCFLLGLI

>sp|Q6W2J9|BCOR\_HUMAN BCL-6 corepressor OS=Homo sapiens GN=BCOR PE=1 SV=1



MLSATPLYGNVHSMNSERVRMCGASEDRKILVNDGDASKARLELREENPLNHNVDAST  
AHRIDGLAALSMDRTGLIREGLRVPGNIVYSSLCGLGSEKGREAAATSTLGGLGFSERNP  
EMQFKPNTPETVEASAVSGKPPNGFSAIYKTPPGIQKSAVATAEALGLDRPASDKQSPLN  
INGASYLRPLPWNPYMEGATPAIYPFLDSPNKYSLNMYKALLPQQSYSLAQPLYSPVCTN  
GERFLYLPPPHYVGPHIPSSLASPMRLSTPSASPAIPPLVHCADKSLPWKMVSPGNPVD  
SHAYPHIQNSKQPRVPSAKAVTSGLPGDTALLPPSPRPSPRVHLPTQPAADTYSEFHKH  
YARISTSPSVALSKPYMTVSSEFFAARLSNGKYPKAPEGGEGAQVPVGHARKTAVQDRKD  
GSSPPLLEKQTVTKDVTDKPLDLSSKVVDVDASKADHMKMAPTVLVHSRAGSGLVLSGS  
EIPKETLSPPGNGCAIYRSEIISTAPSSWVPGPSPNEENNGKSMSLKNKALDWAIPQQR  
SSSCPRMGGTDAVITNVSGSVSSAGRPASASPAPNANADGTKTSRSSVETTPSVIQHVGG  
PPATPAKHSSSTSSKGAKASNPEPSFKANENGLPPSSIFLSPNEAFRSPPIPYPRSYLPY  
PAPEGIAVSPLSLHGKGPVYHPVLLPNGSLFPGHLAPKGPLPYGLPTGRPEFVITYQDAL  
GLGMVHPMLIPHTPIEITKEEKPERRSRSHERARYEDPTLRNRFSEILETSSTKLHPDVP  
TDKNLKPNNWNQKQTVVKSDKLVYVDLLREEPDAKTDNTNVSFPSFAAESVGGSAEPPKP  
SVEPALQQHRDFIALREELGRISDFHETYTFKQPVFTVSKDSVLAGTNKENLGLPVSTPF  
LEPPLGSDGPAVTFGKTQEDPKPFCVGSAPPSVDVTPTYTKDGADEAESNDGKVLKPKPS  
KLAKRIANSAGYVGRDFKCVTTLEYADSSQLSREQRALQMEGLQEDSILCLPAAYCERAM  
MRFSELEMKEREGGHPATKDSEMCKFSPADWERLKGNQDKPKSVTLEEIAEQNESERC  
EYSVGNKHRDPFEAPEDKDLPEKYFVERQPVSEPPADQVSDMPHSPTLRVDRKRKVS  
DSSHTETTAAEVPEDPLLAKRRRVSKDDWPEREMTNSSSNHLEDPHYSELTNLKVCIEL  
TGLHPKKQRHLLHLRERWEQQVSAADGKPGRQSRKEVTQATQPEAIPQGTNITEEKPRK  
RAEAKGNRSWSEESLKPSDNEQGLPVFSGSPMKSLSSTSAGGKKQAQPCAPASRPPAK  
QQKIKENQKTDVLCADDEEDCQAASLLQKYTDNSEKPSGKRLCKTKHLIPQESRRGLPLT  
GEYYVENADGKVTVRRFRKRPEPSSDYDLSPAKQEPKPFDRLLQQLLPASQSTQLPCSSSP  
QETTQSRPMPPEARRLIVNKNAGETLLQRAARLGYEEVVLYCLENKICDVNHRDNAGYCA  
LHEACARGWLNIVRHLLLEYGADVNCQAQDGRPLHDAVENDHLEIVRLLLSYGADPTLAT  
YSGRTIMKMTHELMKFLTDYLDNLQGRNDDASGTWDFYGSVCEPDDESGYDVLNAP  
PGPEDQDDDDAYSDFEFEFSETPLPCYNIQVSVAQGPRNWLLSDVLKKLKMSSRIF  
RCNFPNVEIVTIAEAEFYRQVSASLLFSCSKDLEAFNPESKELLDLVEFTNEIQTLGSS  
VEWLHPSDLASDNYW

>sp|Q02338|BDH\_HUMAN D-beta-hydroxybutyrate dehydrogenase, mitochondrial OS=Homo sapiens  
GN=BDH1 PE=1 SV=3

MLATRLSRPLSRPLPGKTLACDRENGARRPLLLGSTSFIPIGRRTYASAAEPVGSKAVLV  
TGCDSGFGFSLAKHLHSGKFLVFAGCLMKDKGHDGVKELDSLNSDRLRTVQLNVCSSSEV  
EKVVEIVRSSLKDPEKGMWGLVNNAGISTFGEVEFTSLETYKQVAEVLNWTVMRMTKSFL  
PLIRRAKGRVVNISSMLGRMANPARSPYCITKFGVEAFSDCLRYEMYPLGVKVSVEPGN  
FIAATSLYSPESIQAIKKMWEELPEVVRKDYGKKYFDEKIAKMETYCSSGSTDTSPVID  
AVTHALTATTPYTRYHPMDYYWLRMQIMTHLPGAISDMIYIR

>sp|Q7Z3C6|ATG9A\_HUMAN Autophagy-related protein 9A OS=Homo sapiens GN=ATG9A PE=1 SV=3

MAQFDTEYQRLEASYSDDPPGEEDLLVHVAEGSKSPWHHIENLDLFFSRVYNLHQKNGFT  
CMLIGEIFELMQFLFVVAFTTFLVSCVDYDILFANKMVNHS LHPTPEVKVTLPD AFLPAQ  
VCSARIQENGLITILVIAGVFIHRLIKFIYNICCYWEIHSFYLHALRIPMSALPYCTW  
QEVQARIVQTQKEHQICIHKRELTELDIYHRILRFQNYMVALVNKSLPLRFRPLPGLGEA  
VFFTRGLKYNFELILFWGPGSLFLNEWSLKA EYKRGGRLELAQRLSNRILWIGIANFLL

CPLILIWQILYAFFSYAEVLKREPGALGARCWSLYGRCYLRFNELEHELQSRLNRGYKP  
ASKYMNCFLSPLLTLAKNGAFFAGSILAVLIALTIIYDEDLAVEHVLTTVTLLGVTVTV  
CRSFIPDQHMVFCPEQLLRVILAHIHYPDHWQGNNAHRSQTRDEFAQLFQYKAVFILEEL  
LSPIVTPLILIFCLRPRALEIIDFFRNFTVEVVGVGDTCSFAQMDVRQHGHPQWLSAGQT  
EASVYQQAEDGKTELSLMHFAITNPGWQPPRESTAFLGFLKEQVQRDAAAASLAQGGLLP  
ENALFTSIQSLQSESEPLSLIANVVAGSSCRGPPLPRDLQGSRHRAEVASALRSFSPLQP  
GQAPTGRAHSTMTGSGVDARTASSGSSVWEGQLQSLVLSEYASTEMSLHALYMHQLHKQQ  
AQAEPERHVWHRRESDESGESAPDEGGEGARAPQSI PRSASYPCAAPRPGAPETTALHGG  
FQRRYGGITDPGTVPRVPSHFSRLPLGGWAEDGQSASRHPEPVPEEGSEDELPPQVHKV

>sp|Q8N6G6|ATL1\_HUMAN ADAMTS-like protein 1 OS=Homo sapiens GN=ADAMTSL1 PE=1 SV=4

MECCRRATPGTLLFLAFLLLSSRTARSEEDRDGLWDAGPWSECSRTC GGGASYSLRRC  
LSSKSCEGRNIRYRTCSNVDCPPEAGDFRAQQCSAHNDVKHHGQFYEWLPVSNPDNP  
LKCQAKGTTLVVELAPKVLDTGTRCYTESLDMCISGLCQIVGCDHQLGSTVKEDNCGVCNG  
DGSTCLRVRGQYKSQLSATKSDDTVVAIPYGSRHRLVLKGPDHLYLETKTLQGTKGENS  
LSSTGTFLVDNSSVDFQKFPDKEILRMAGPLTADFIVKIRNSGSADSTVQFIFYQPIIHR  
WRETDFFPSCATCGGGYQLTSAECYDLRSNRVVADQYCHYYPENIKPKPKLQECNLDPCP  
ASDGYKQIMPYDLYHPLPRWEATPWTACSSSCGGGIQSRVSCVEEDIQGHVTSVEEWKC  
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>sp|Q6ZMM2|ATL5\_HUMAN ADAMTS-like protein 5 OS=Homo sapiens GN=ADAMTSL5 PE=1 SV=3

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G

>sp|Q96SQ7|ATO8\_HUMAN Protein atonal homolog 8 OS=Homo sapiens GN=ATO8 PE=2 SV=2

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PAPPTRPGESSYSSISHVIYNNHQDSSASPRKRPGEATAASSEIKALQQTRLLANARER  
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>sp|P20648|ATP4A\_HUMAN Potassium-transporting ATPase alpha chain 1 OS=Homo sapiens  
GN=ATP4A PE=2 SV=5

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>sp|P56381|ATP5E\_HUMAN ATP synthase subunit epsilon, mitochondrial OS=Homo sapiens  
GN=ATP5E PE=1 SV=2

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>sp|Q6E213|AWAT2\_HUMAN Acyl-CoA wax alcohol acyltransferase 2 OS=Homo sapiens GN=AWAT2  
PE=1 SV=1

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>sp|Q9Y2T1|AXIN2\_HUMAN Axin-2 OS=Homo sapiens GN=AXIN2 PE=1 SV=1

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RID

>sp|Q96BY7|ATG2B\_HUMAN Autophagy-related protein 2 homolog B OS=Homo sapiens GN=ATG2B  
PE=1 SV=5

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>sp|Q8WYN0|ATG4A\_HUMAN Cysteine protease ATG4A OS=Homo sapiens GN=ATG4A PE=1 SV=1  
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DIKKMCRVPLSADTAGDRPPDSLASNQSKGTSAYCSAWKPLLLIVPLRLGINQINPVY  
VDAFKECFKMPQSLGALGGKPNNAFFYFIFGLGDELIFLDPHTTQTFVDTEENGTVDNQTF  
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>sp|Q86TL0|ATG4D\_HUMAN Cysteine protease ATG4D OS=Homo sapiens GN=ATG4D PE=1 SV=1  
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KKAGDWYGPSLVAHILRKAVESCDVTRLVVVYSQDCTVYKADVARLVARPDPTAEWKS  
VILVPVRLGGETLNPVYVPCVKEILLRCELCLGIMGGKPRHSLYFIFYQDDFLLYLDPHYC  
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>sp|Q8WXF7|ATL1\_HUMAN Atlantin-1 OS=Homo sapiens GN=ATL1 PE=1 SV=1  
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NVQEDDLQHLQLFTEYGR LAMEETFLKPFQSLIFLVRDWSFPYEF SYGADGGAKFLEKRL  
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IPWLLSPESLDIKEINGNKITCRGLVEYFKAYIKIYQGEELPHPKSMLQATAEANNLA  
ATAKDTYNKKMEEICGGDKPFLAPNDLQTKHLQLKEESVKLFRGVKKMGGEFSRRYLQQ  
LESEIDELIYIYIKHNSKNIFHAARTPATLFFVIFITYVIAGVTGFIGLDIIASLCNMI  
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>sp|P54259|ATN1\_HUMAN Atrophin-1 OS=Homo sapiens GN=ATN1 PE=1 SV=3  
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ASSVGGPNGGKQHPPPTTPI SVSSSGASGAPPTKPPTTPVGGGNLPSAPPPANFPHVTPN  
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HHHQQQQQQQQQQQQQQHHGNSGPPPPGAFPHPLEGGSSHAHPYAMSPSLGSLR  
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FPPVPTVTTSSATLSTVIATVASSPAGYKTASPPGPPPYGKRAPSPGAYKTATPPGYKPG  
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LAAERQHAERVAALGNDPLARLQMLNVTPHHHQHSHIHSHLHLHQDAIHAASASVHPLI  
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>sp|Q6RW13|ATRAP\_HUMAN Type-1 angiotensin II receptor-associated protein OS=Homo sapiens  
GN=AGTRAP PE=1 SV=1

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>sp|Q9H324|ATS10\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 10  
OS=Homo sapiens GN=ADAMTS10 PE=1 SV=2

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GPGLRHRVVLCKSADHRATLPPAHCSPAKPPATMRCNLRRCPPARWVAGEWGECSAQCG  
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>sp|Q6HA08|ASTL\_HUMAN Astacin-like metalloendopeptidase OS=Homo sapiens GN=ASTL PE=1 SV=4

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LHELMHVLGFWEHTRADRDYIRVNWNEILPGFEINFIKSQSSNMLTPYDYSSVMHYGR  
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SPAPASLSLQRLLEALSAESRSPDPSGSSAGGQVPVAGPGESPHGWESPALKKLSAEASA  
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>sp|075129|ASTN2\_HUMAN Astrotactin-2 OS=Homo sapiens GN=ASTN2 PE=1 SV=2

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>sp|Q8WWH4|ASZ1\_HUMAN Ankyrin repeat, SAM and basic leucine zipper domain-containing  
protein 1 OS=Homo sapiens GN=ASZ1 PE=2 SV=1

MAASALRGLPVAGGGESSEDDGWEIGYLDRTSQKLRLPIEEKKEKFKKAMTIGDVS  
LVQELDSGISVDSNFQYGWTPLMYAASVANAELVRVLLDRGANASFEKDKQSILITACS  
AHGSEEQILKCVELLRSRNADPNVACRRLMTPIMYAARDGHTQVVALLVAHGAEVNTQDE  
NGYTALTWAARQGHKNIVLKLLELGANKMLQTKDGKMPSEIAKRKHHEIFNLLSFTLNP  
LEGKLQQLTKEDTICKILTDSREKDHIFSSYAFGDLEVFLHGLGLEHMTDLLKERDI  
TLRHLLTMREDEFTKNGITSKDQKILAAKELQVEEIQFGELSEETKLEISGDEFNLFL  
LKLNKQCGHLITAVQNVITELPVNSQKITLEWASPQNFTSVCEELVNNVEDLSEKVCCLK  
DLIQKLQNERENDPHTIQLREEVSTWNSRILKRTAITICGFGFLFICKLTFQRK

>sp|Q9Y2G3|AT11B\_HUMAN Probable phospholipid-transporting ATPase IF OS=Homo sapiens  
GN=ATP11B PE=1 SV=2

MWRWIRQQLGFDPPHQSDTRTIYVANRFPQNGLYTPQKFIDNRIISSKYTVWNFVPKNLF  
EQFRRVANFYFLIIFLVQLMIDTPTSPVTSGLPLFFVITVTAIKQGYEDWLRHNSDNEVN  
GAPVYVVRSGGLVKTRSKNIRVGDIVRIAKDEIFPADLVLLSSDRLDGSCHVTASLDGE

TNLKTHVAVPETALLQTVANLDTLVAVIECQQPEADLYRFMGRMIITQQMEEIVRPLGPE  
SLLLRGARLKNTKEIFGVAVYTGEMTKMALNYKSKSQKRSAVEKSMNTFLIIYLVILISE  
AVISTILKYTWQAEKWDPEWYNQKTEHQNRSSKILRFISDFLAFLVLYNFIIPISLYVT  
VEMQKFLGSFFIGWDLDLHEESDQKAQVNTSDLNEELGQVEYVFTDKTGTLTENEMQFR  
ECSINGMKYQINGRLVPEGPTPDSSEGNLSYLSLSHLNNLSHLTSSSFRTSPENETE  
LIKEHDLFFKAVSLCHTVQISNVQTDCTGDGPWQSNLAPSQLLEYASSPDEKALVEAAAR  
IGIVFIGNSEETMEVKTLGKLERYKLLHILEFSDRRRMSVIVQAPSGEKLLFAKGAESS  
ILPKCIGGEIEKTRIHVDEFALKGLRTLCAIYRKFTSKEYEEDKRIFEARTALQQREEK  
LAAVFQFIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKVWVLTGDKHETAVSVSLSC  
GHFHRTMNILELINQKSDSECAEQLRQLARRITEDHVIQHGLVVDGTSLSLALREHEKLF  
MEVCRNCSAVLCCRMAPLQKAKVIRLIKISPEKPITLAVGDGANDVSMIQEAHVGIGIMG  
KEGRQAARNSDYAIAARFKFLSKLLFVHGHHFYIRIATLVQYFFYKNVCFITPQFLYQFYC  
LFSQQTLYDSVYLTLYNICFTSLPILYSLLEQHVDPHVLQNKPTLYRDISKNRLLSIKT  
FLYWTILGFSHAFIFFFGSYLLIGKDTSLGNGQMFGNWTFGTLVFTVMVITVTVKMALE  
THFWTWINHLVTWGSIIIFYFVFSLFYGGILWPFLGSQNMVFVFIQLLSGSAWFAIILMV  
VTCLFLDIKKVFDRHLHPTSTEKAQLTETNAGIKCLDSMCCFPEGEAACASVGRMLERV  
IGRCSPTHISRSWSASDPFYTNDRSILTSTMDSSTC

>sp|Q9H7F0|AT133\_HUMAN Probable cation-transporting ATPase 13A3 OS=Homo sapiens  
GN=ATP13A3 PE=1 SV=4

MDREERKTINQGQDEMEIYGYNLSRWKLAIVSLGVICSGGFLLLLLYWMPEWRVKATCV  
RAAIKDCEVLLRRTTDEFKMWFCAKIRVLSLETYPVSSPKSMSNKLNGHAVCLIENTPE  
ENRHRISKYSQTESQQIRYFTHHSVKYFWNDTIHNFDFLKGLEDGVSCTSIYEKHSAGLT  
KGMHAYRKLLYGVNEIAVKVPSVFKLLIKEVLNPFYIFQLFSVILWSTDEYYYYALAIIV  
MSIVSIVSSLYSIRKQYVMLHDMVATHSTVRVSVCRVNEEIEEIFSTDLPDGMVMIPLN  
GTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDELYNPETHKRHTLF  
CGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLLCLVAV  
AGIGFIYTIINSILNEVQGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFC  
ISPQRINICGQLNLVCFDKTGTLTEDGLDLWGIQRVENARFLSPEENVCNEMLVKSQFVA  
CMATCHSLTKIEGVLSGDPLDLKMFEAIGWILEEATEEETALHNRIMPTVVRPPKQLLPE  
STPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSVVARVLGDRKMDAYMKGAPAEIAG  
LCKPETVPVDFQNVLEDFTKQGFVIALAHRKLESKLTWHKVQNISRDATENNMDFMGLI  
IMQNKLKQETPAVLEDLHKANIRTVMTGDSMLTAVSVARDCGMILPQDKVIAEALPPK  
DGKVAKINWHYADSLTQCSHPSAIDPEAIPVKLVHDSLEDLQMTRYHFAMNGKSFVILE  
HFQDLVPKMLHGTVFARMAPDQKTQLIEALQNVDFYVGMCGDGANDCGALKRAHGGISL  
SELEASVASPFTSKTPSISCPNLIREGRAALITSFCVFKFMALYSIIQYFSVTLLYSIL  
SNLGDFFQFLFIDLAIILVVVFTMSLNPWAKELVAQRPPSGLISGALLFSVLSQIIICIGF  
QSLGFFVWKQPPWYEVVHPKSDACNTTGS GFWNSSHVDNETELDEHNIQNYENTTVFFIS  
SFQYLIVAIAFSGKGKPFQPCYKNYFFVFSVIFLYIFILFIMLYPVASVDQVLQIVCPY  
QWRVTMLIIIVLNAFVSITVEESVDRWGKCLPWALGCRKKTPKAKYMYLAQELLVDPEW  
PPKPQTTEAKALVKENGSCQIITIT

>sp|Q4VNC1|AT134\_HUMAN Probable cation-transporting ATPase 13A4 OS=Homo sapiens  
GN=ATP13A4 PE=2 SV=3

MGHFEKGQHALLNEGEENEMEIFGYRTQGC RKSLCLAGSIFSFGILPLVFYWRPAHWVA  
HCVPCSLQEADTVLLRRTTDEFQIYSWKKVIWIYLSALNSAFGLTPDHPLMTDEEYIINRA



IRKPD LKVR CIK VQK IRYV VWN YLE GQF QK IGS LEDW LSS AKIH QKFG SGLT REEQE IRR L  
ICG NTID VEV TP IWK LL I KEV LNP FYIF QLFS VCLW FSEDY KEYAFA I IIMS I I S I S L T  
VYDL REQ SVKL HHL VESH NSITV SVCG RKAGV QELES RVL VP GDLL ILTGN KVL MP CDAV  
LIEG SCVV DEGM LTGES IPVTK TPLPK MDSSVP WKTQ SEADY KRH VLF CGTEVIQAKAAC  
SGTVRA VVLQTGFNTAKGDLVRSILYPKPVNFQLYRDAIRFLLCLVGTATIGMIYTL CVY  
VLSGEPPEEVVRKALDVITIAVPPALPAALTGIIYAQRRLKKGIFCISPQRIN VCGQL  
NLVCFDKTGTLTRDGLDLWGVVSCDRNGFQEVHSFASGQALPWGPLCAAMASCHSLILLD  
GTIQGDPLDLKMFEATTWEMAFSGDDFHIKGVPAHAMVVKPCRTASQVPVEGIAILHQFP  
FSSALQRM TVIVQEMGGDRLAFMKGAPERVASFCQPETVPTS FVSELQIYTTQGFRVIAL  
AYKKLENDHHATTLTRETVESDLIFLGLLILENRLKEETKPVLEELISARIRTVMITGDN  
LQTAITVARKSGMVSESQKVILIEANETGSSSASISWTLVEEKKHIMYGNQDNYINIRD  
EVSDKGREGSYHFALTGKSFHVISQHFSSLLPKILINGTIFARMSPGQKSSLV EEFQKLD  
YFVGMCGDGANDCGALKMAHVGISLSEQEASVSPFTSKTPNIECVPHLIKEGRAALVTS  
FCMFKYMALYSMIQYVGVLLLYWETNSLSNYQFLFQDLAITTLIGVTMNLNGAYPKLVPF  
RPAGRLISPPLLSVIFNILLSLAMHIAGFILVQRQPWYSVEIHSACTVQNESISELTMS  
PTAPEKMESNSTFTSFENTTVWFLGTINCITVALVFSKGKPFQRPTYTNYIFVLVLI IQL  
GVCLFILFADIPELYRRLDLLCTPVLWRASIVIMLSLNFIVSLVAEEAVIENRALWMMIK  
RCFGYQSKSQYRIWQRDLANDPSWPPLNQTSHSDMPECGRGVSYSNPVFESNEEQ L

>sp|P05026|AT1B1\_HUMAN Sodium/potassium-transporting ATPase subunit beta-1 OS=Homo sapiens GN=ATP1B1 PE=1 SV=1

MARGKAKEEGSWKKFIWNSEKKEFLGRTGGSWFKILLFYVIFYGCLAGIFIGTIQVMLLT  
ISEFKPTYQDRVAPPGLTQIPQIQKTEISFRPNPKSYEAYVLNIVRFLEKYKDSAQRDD  
MIFEDCGDVPSEPKERGDFNHERGERKVCRFKLEWLGNCGLNDETYGYKEGKPCII IKL  
NRVLGFKPKPPKNESLETYPVMKYNPNVLPVQCTGKRDEDDKDKVGNVEYFGLGNSPGFPL  
QYYPYYGKLLQPKYLQPLLAVQFTNL TMDTEIRIECKAYGENIGYSEKDRFQGRFDVKIE  
VKS

>sp|Q9UN42|AT1B4\_HUMAN Protein ATP1B4 OS=Homo sapiens GN=ATP1B4 PE=2 SV=1

MRRQLRSRRAPSPFYSYRYRLDDPDEANQNYLADEEEEAEEEARVTVVPKSEEEEEEEK  
EEEEEEEEEQGGQPTGNAWWQKLQIMSEYLWDPERRMFLARTGQSWSLILLIYFFFY  
ASLAAVITLCMYTLFLTISPYIPTFTERVKPPGVMIRPFAHSLNFNFNVSEPDTWQHVI  
SLNGFLQGYNDSLQEEMNVDCPPGQYFIQDGNEDEDKKACQFKRSFLKNCSGLEDPTFGY  
STGQPCILLKMNRI VGRPELGDVPVKV SCKVQRGDENDIRSISYYPESASF DLRYYPYYG  
KLTHVNYTSPLVAMHFTDVVKNAVPVQCQLKGKGVINDVINDRFVGRVIFTLNIET

>sp|Q8TBG4|AT2L1\_HUMAN Ethanolamine-phosphate phospho-lyase OS=Homo sapiens GN=ETNPPL PE=1 SV=1

MCELYSKRDTLGLRKKHIGPSCKVFFASDP IKIVRAQRQYMF DENG EQYLDCINNVAVHG  
HCHPGVVKAALKQMELLNTNSRFLHDNIVEYAKRLSATLPEKLSVCYFTNSGSEANDLAL  
RLARQFRGHQDVITLDHAYHGLSSLIETSPYKFQKGKDVKEFVHVAPTPTYRGKYRE  
DHADSASAYADEVKKIIEDAHNSGRKIAAFIAESMQSCGGQIIPPAGYFQKVAEYVHGAG  
GVFIADEVQVGFRVGKHFWSFQMYGEDFVPDIVTMGKPMGNHPVACVVTTEIAEAFS  
SSGMEYFNTYGGNPVSCAVGLAVLDI IENEDLQGNARVGNYLTELLKKQKAKHTLIGDI  
RGIGLFIGIDLVDHLKRTPATAEAQHIIYKMEKRVLLSADGPHRNVLIKPPMCFTEE  
DAKFMVDQLDRILTVLEEAMGKTESVTSENTPCKTKMLKEAHIELLRDSTTDSKENPSR  
KRNGMCTDTHSLLSKRLKT

>sp|075964|ATP5L\_HUMAN ATP synthase subunit g, mitochondrial OS=Homo sapiens GN=ATP5L  
PE=1 SV=3

MAQFVRNLVEKTPALVNAAVTYSKPRLATFWYYAKVELVPPTPAEIPRAIQSLKKIVNSA  
QTGSFKQLTVKEAVLNGLVATEVLMWFYVGEIIGKRGIIGYDV

>sp|P30049|ATPD\_HUMAN ATP synthase subunit delta, mitochondrial OS=Homo sapiens GN=ATP5D  
PE=1 SV=2

MLPAALLRRPGLGR\_LVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDV  
PTLTGAFGILAAHVPTLQVLRPGLVVVHAEDGTTSKYFVSSGSIIVNADSSVQLLAEEAV  
TLDMLDLGAAKANLEKAQAELVGTADATRAEIQIRIEANEALVKALE

>sp|P58397|ATS12\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 12  
OS=Homo sapiens GN=ADAMTS12 PE=1 SV=2

MPCAQRSWANLSVVAQLLNFGALCYGRQPQPGPVRFPDRRQEHFIKGLPEYHVVG\_PVRV  
DASGHFLSYGLHYPI\_TSSRRKRDL\_DGSEDWVYYRISHEEKDLFFNLTVNQGLSNSYIME  
KRYGNLSHV\_KMMASAPLCHLSGTVLQQGTRVGTAAALSACHGLTGFFQLPHGDFFI\_EPVK  
KHPLVEGGYHPHIVYRRQKV\_PETKEPTCGLKDSVNISQKQELWREKWERHNLPSRSL\_SRR  
SISKERWVETLVVADTKMIEYHGSENVESYILTIMNMVTGLFHNPSIGNAIHIVVRLIL  
LEEEEQGLKIVHHA\_EKTLSSFCWKQKSINPKSDLNPVHHDVAVLLTRKDICAGFN\_RPCET  
LGLSHLSGMCQPHRSCNINEDSGLPLAFTIAHELGH\_SFGIQHDGKENDCEPVGRHPYIMS  
RQLQYDPTPLTWSKCSE\_YITRFLDRGWGFC\_LDDIPKKKGLKSKVIAPGVIYDVHHQ\_CQL  
QYGNATFCQ\_EVENVCQTLWC\_SVKGFCRSKLDAAADGTQC\_GEKKWCMAGKCITVGKK\_PES  
IPGGWGRWSPWSHCSRTCGAGVQSAERLCNNPEPKFGGKYCTGERKRYRLCNVHPCRSEA  
PTFRQM\_CSEFDTPYKNEL\_YHWFPIFNPAHPCELYCRPIDGQFSEKMLDAVIDGTPCFE  
GGNSRNV\_CINGICKMV\_GCDYEIDSNATEDRCGVCLGDGSSCQTVRKMFKQKEGSGYVDIG  
LIPKGARDIRVMEIEGAGNFLAIRSEDPEKY\_YLNGGFIIQWNGNYKLAGTVFQYDRK\_GDL  
EKLMATGPTNESVWIQLLFQVTNP\_GIKYEYTIQKDGLDNDVEQQMYFWQYGHWTECSVTC  
GTGIRRQTAHCIKKGRGMV\_KATFCDPETQPNGRQKKCHEKACPPRWAGEWEACSATCGP  
HGEKKRTVLCIQTMVSDEQALPPTDCQHLLKPKTLLSCNRDILCPSDWT\_VGNWSECSVSC  
GGGVRIRSVTC\_AKNHDEPCDVTRKPNSRALCGLQQCPSSRRVLKPNKGTISNGKNPPTLK  
PVPPPTSRPRMLTTPGPESMSTSTPAISSPSPTTASKEGDLGGKQWQDSSTQPELSSRY  
LISTGSTSQPILTSQSLSIQPSEENVSSSDTGPTSEGLVATTTSGSGLSSSRNPITWPV  
TPFYNTLT\_KGPEMEIHSGSGEEREQPEDKDESNPVIWTKIRVPGNDAPVESTEMPLAPPL  
TPDLSRESWWPPFSTVMEGLLP\_SQRPTTSETGTPRVEGMVTEKPANTLLPLGGDHQPEPS  
GKTANRNHLKLPNNMNQKSSEPVLTEEDATSLITEGFL\_NASNYKQLTNGHGS\_AHWIVG  
NWSECSTTCGLGAYWRRVECSTQ\_MSDCAAIQRPDPAKRCHLRPCAGWKVGNWSKCSRNC  
SGGFKIREIQ\_CVDSRDHRNLRPFHCQFLAGIP\_PPLSMSCNPEPCEAWQVEPWSQCSRSCG  
GGVQERG\_VFCPGLCDWTKRPTSTMSCNEHLCCHWATGNWDL\_CSTSCGGGFQKRTVQCVP  
SEG\_NKTEDQDQCLDHKPRPPEFKKCNQQACKKSADLLCTKD\_KLSASF\_CQTLKAMKKCSV  
PTVRAECCFSCPQTHITHTQR\_QRRQRLLQKSKE\_L

>sp|Q8TE58|ATS15\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 15  
OS=Homo sapiens GN=ADAMTS15 PE=2 SV=1

MLLLGILTLAFAGRTAGGSEPEREVVPIRLDPDINGRRYYWRGPEDSGDQGLIFQITAF  
QEDFY\_LH\_LTPDAQFLAPAFSTEHLGVPLQGLTGSSDLRRCFYSGDVNAEPDSFAAVSLC  
GGLRGAFGYRGA\_EYVISPLPNASAPAAQRNSQGAHLLQRRGVPGGPSGDPTSRCGVASGW  
NPAILRALDPYKPRRAGFGESRSRRRSGR\_AKRFVSI\_PRYVETLVVADESMVKFHGADLEH

YLLTLLATAARLYRHPSILNPINIVVVKVLLLRDRDSGPKVTGNAALTLRNFCAWQKKLN  
KVSDKHPEYWDTAILFTRQDLGATTCDTLGMADVGTMCDPKRSCSVIEDDGLPSAFTTA  
HELGHVFNMPHDNVKCEEVFGKLRANHMMSPTLIQIDRANPWSACSAAIITDFLDSGHG  
DCLLDQPSKPISLPEDLPGASYTLSQQCELAFGVGSKPCPYMQYCTKLWCTGKAKGQMV  
QTRHFPWADGTSCGEGKLCCLKGACVERHNLNKHVRDGSWAKWDPYGPCSRTC GGGVQLAR  
RQCTNPTPANGGKYCEGVRVKYRSCNLEPCPSSASGKSFREEQCEAFNGYNHSTNRLTLA  
VAWVPKYSGVSPRDKCLICRANGTGIFYVLAPKVVDGTL CSPDSTSVCVQGKCIKAGCD  
GNLGSKKRFDKCGVCGDNKSCKKVTGLFTKPMHGYNFVVAIPAGASSIDIRQGYKGLI  
GDDNYLALKNSQGYLLNGHFVSAVERDLVVKGSLLRYS GTGTAVESLQASRP ILEPLT  
VEVLSVGKMTPPRVYSFYLPKEPREDKSSHPKDPGPSVLHNSVLSLSNQVEQPDDRPP  
ARWVAGSWGPCSASCGSLQKRAVDGRGSAGQRTVPACDAAHRPVETQACGEPCPTWELS  
AWSPCSKSCGRGFQRRSLKCVGHGGRL LARDQC NLHRKPQELDFCVLRPC

>sp|Q8TE60|ATS18\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 18

OS=Homo sapiens GN=ADAMTS18 PE=1 SV=3

MECALLLACAFPAAGSGPPRGLAGLRVAKALQLCCLCCASVAAALASDSSSGASGLNDD  
YVFTVPVEVDSAGSYISHDILHNGRKKRSAQNARSSLHYRFSAFGQELHLELKPSAILSS  
HFIVQVLGKDGASETQKPEVQCFYQGFIRNDSSSSVAVSTCAGLSGLIRTRKNEFLISP  
LPQLLAQEHNYS SPAGHHPVL YKRTAEKIQR YRGYPGSGRNP GYSPSHIPHASQSRE  
TEYHHRRLQKQHF CGRRKKYAPKPPTEDTYLRFDEYGS SGRPRRSAGKSQKGLNVELLV  
ADKMKVEKHGKGNVTYILTVMNMVSGLFKDG TIGSDINVVVSLILLEQEPEGGLINHH  
ADQSLNSFCQWQSALIGKNGKRHDHAILLTGFDICSWKNEPCDTLGFAPISGMCSKYRSC  
TINEDTGLGLAFTIAHESGHNF GMIHDGEGNPCRKAEGNIMSPTLTGNNGVFSWSSCSRQ  
YLKKFLSTPQAGCLVDEPKQAGQYKYPDKLP GQIYDADTQCKWQFGAKAKLCSLGFVKDI  
CKSLWCHRVGHRCE TKFMPAAEGTV CGLSMWCRQGQCVKFGE LGPRPIHGQWSAWSKWSE  
CSRTC GGGVKFQERHCNNPKPYGGLFCPGSSRIYQLCNINPCNENSLDFRAQQCAEYNS  
KPFGRWFYQWKPYTKVEEEDRCKLYCKAENFEFF FAMS GKVKDGTPCSPNKNDVCIDGVC  
ELVGCDHELGSKAVSDACGVCKGDNSTCKFYKGLYLNQHKANEYYPVVLIPAGARSIEIQ  
ELQVSSSYLAVRSLSQYYLTGGWSIDWPGEFFPAGTTFEYQRSFNRPERLYAPGPTNET  
LVFEILMQGKNPGIAWKYALPKVMNGTPPATKR PAYTWSIVQSECSVSCGGGYINVKAIC  
LRDQNTQVNSSFCSAKTKPVTEPKICNAFSCPAYWMPGEWSTCSKACAGGQQSRKIQCVQ  
KKPFQKEEAVLHSLCPVSTPTQVQACNSHACPPQWSLGPWSQCSKTCGRGVRKRELLCKG  
SAAETLPESQCTSLPRPELQEGCVLGRCPKNSRLQWVASSWSECSATCGLGVRKREMKCS  
EKGFQGKLITFPERRCRNIKKPNLDLEETCNRRACPAHPVYNMVAGWYSLPWQQCTVTCG  
GGVQTRSVHCVQGRPSSSCLLHQKPPVLRACNTNFCPAPEKREDPSCVDFFNWCHLVPQ  
HGVCNHFYQKQCKSCTRKI

>sp|O15072|ATS3\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 3

OS=Homo sapiens GN=ADAMTS3 PE=2 SV=4

MVLLSLWLIAAALVEVRTSADGQAGNEEMVQIDLPIKRYREYELVTPVSTNLEGRYLSHT  
LSASHKKRSARDVSSNPEQLFFNITAFGKDFHLRLKPNTQLVAPGAVVEWHETSLVPGNI  
TDPINNHPGSATYRIRRT EPLQTNCAYVGDIVDIPGTSVAISNCDGLAGMIKSDNEEYF  
IEPLER GKQMEEEKGRIHVYKRS AVEQAPIDMSKDFHYRES DLEGLDDLGT VYGNIHQQ  
LNETMRRRRRHAGENDYNI EVLLGVDDSVVRFHGKEHVQNYLLTLMNIVNEIYHDESLGVH  
INVVLVRMIMLG YAKSISLIERGNPSRSL ENVCRWASQQQRSDLNHSEHHDHAI FLTRQD  
FGPAGMQGYAPVTGMCHPVR SCTLNHEDGFSSAFVVAHETGHV LGMEHDGQGNRCGDETA

MGSVMAPLVQAAFHRYHWSRCSGQELKRYIHSYDCLDDPFDHDPKLPPELPGINYSMDE  
QCRDFGFGYKMCATFRTFDPCKQLWCSHPDNPYFCKTKKGPPLDGTCAAGKWYKGGHC  
MWKNANQKQKQDGNWGSWTKFGSCSRTCGTGVFRFRTRQCNNPMPINGGQDCPGVNFYQLC  
NTEECQKHFEDFRAQQCQQRNSHFYQNTKHHWLPYEHDPKKRCHLYCQSKETGDVAYM  
KQLVHDGTHCSYKDPYSICVRGECVKVGCDEIGSNKVEDKCGVCGGDNHCRITVKGFTFT  
RTPRKLGYLKMFDIPPGARHVLIQEDEASPHILAIKNQATGHYILNGKGEEAKSRTFIDL  
GVEWDYNIEDDIESLHTDGPLHDPVIVLIIPQENDTRSSLTYKYIIHEDSVPTINSNNVI  
QEELDTFEWALKSWSQCSKPCGGGFQYTKYGCRRKSDNKMVHRSFCEANKKPKPIRRMCN  
IQECTHPLWVAEEWEHCTKTCGSSGYQLRTVRCLQPLLDGTNRSVHSKYCMGDRPESRRP  
CNRVPCPAQWKTGPWSECSVTCEGTEVRQVLCRAGDHCDGEKPESVRACQLPPCNDEPC  
LGDKSIFCQMEVLARYCSIPGYNLCCESCSKRSSTLPPPYLLEAAETHDDVISNPSDLP  
RSLVMPTSLVPYHSETPAKKMSLSSISSVGGPNAYAARPNKPDGANLRQSAQAGSK  
TVRLVTVPSPPTKRVHLSSASQMAAASFFAASDSIGASSQARTSKKDGIIDNRRPTRS  
STLER

>sp|075173|ATS4\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 4  
OS=Homo sapiens GN=ADAMTS4 PE=1 SV=3

MSQTGSHPGRLAGRWLWGAQPCLLLPIVPLSWLVWLLLLLLASLLPSARLASPLPREEE  
IVFPEKLNGLVPGSGAPARLLCRLQAFGETLLLELEQDSGVQVEGLTVQYLGQAPELLG  
GAEPGTYLGTINGDPESVASLHWDGGALLGVLQYRGAEHLHQLPEGGTPNSAGGPGAHI  
LRRKSPASGGPMCNVKAPLGSPSPRRRAKRFASLSRFVETLVVADKMAAFHGAGLKR  
YLLTVMAAAAKAFKHPsirNPVSLVTVRLVILGSGEEGPQVGPSAAQTLRSFCAWQRLN  
TPEDSDPDHFDTAILFTRQDLGCVSTCDTLGMADVGTVCDFPARSCAIVEDDGLQSAFTAA  
HELGHVFNMLHDNSKPCISLNGPLSTSRHVMAFVMAHVDPEEPWSPCSARFITDFLDNGY  
GHCLLDKPEAPLHLPVTFPGKDYDADRQCQLTFGPDSRHCPQLPPCAALWCSGHLNGHA  
MCQTKHSPWADGTPCGPAQACMGGRCLHMDQLQDFNIPQAGGWGPWGPWGDCSRTCAGGV  
QFSSRDCTRVPVRNGGKYCEGRTRFRSCNTEDCPTGSALTFREEQCAAYNHRTDLFKSF  
PGPMDWVPRYTGVAPQDQCKLTCQAQALGYYYVLEPRVVDGTPCSPDSSSVCVQGRCIHA  
GCDRIIGSKKKFKDMVCGDGSCKSKSGSFRKFRYGYNVVTIPAGATHILVRQQGNP  
GHRSIYLALKLPDGSYALNGEYTLMPSPSTDVVLPGAVSLRYSGATAASETLSGHGPLAQP  
LTLQVLVAGNPQDTRLRYSFVPRPTPSTPRPTQDWLHRRRAQILEILRRRPWAGRK

>sp|Q9UKP5|ATS6\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 6  
OS=Homo sapiens GN=ADAMTS6 PE=2 SV=2

MEILWKTLTWILSLIMASSEFHSRHLSYSSQEEFLTYLEHYQLTIPIRVDQNGAFLSFT  
VKNDKHSRRRRSMDPIDPQQAVSKLFFKLSAYGKHFHLNLTNTDFVSKHFTVEYWGKDG  
PQWKHDFLDNCHYTGYLQDQRSTTKVALSNCVGLHGVIAEDEEYFIEPLKNTTEDSKHF  
SYENGHPHVIYKKSALQQRHLYDHSCHGVSDFTRSGKPWWLNDTSTVSYSLPINNTHIHH  
RQKRSVSIERFVETLVVADKMMVGYHGRKDIEHYILSMNIVAKLYRDSSLGNVNIIVA  
RLIVLTEDQPNLEINHADKSLDSFCKWQKSILSHQSDGNTIPENGIAHHDNAVLITRYD  
ICTYKNKPCGTLGLASVAGMCEPERSCSINEDIGLGSFTIAHEIGHNFGMNHDGIGNSC  
GTKGHEAAKLMAAHITANTNPFSWSACS RDYITSFLDSGRGTCLDNEPPKRDFLYPAVAP  
GQVYDADEQCRFYGATSRQCKYGEVCRELWCLSKSNRCVTNSIPAAEGTLCQTGNIEKG  
WCYQGDVCPFGTWPQSIDGGWGPWSLWGECSRTCAGGVSSSLRHCDSPAPSGGKYCLGE  
RKRYRSCNTDPCPLGRDREKQCADFDNMPFRGKYNNWKPYTGGGVKPCALNCLAEGYN  
FYTERAPAVIDGTQCNADSLDICINGECKHVGCNINLGS DAREDRCRVCGGDGSTCDAIE

GFFNDSLPRGGYMEVVQIPRGSVHIEVREVAMSKNYIALKSEGDDYYINGAWTIDWPRKF  
DVAGTAFHYKRPTDEPESLEALGPTSENLI VMVLLQEQNLGIRYKFNVPITRTGSGDNEV  
GFTWNHQPWSECSATCAGGVQRQEVVCKRLDDNSIVQNNYCDPDSKPPENQRACNTEPCP  
PEWFIGDWLECSKTCDBGMRTRAVLCIRKIGPSEEETLDYSGCLTHRPVEKEPCNNQSCP  
PQWVALDWSECTPKCGPGFKHRIVLCKSSDLSKTFPAAQCPEESKPPVRIRCSLGRCPPP  
RWVTGDWGGCSAQCGLGQQMRTVQCLSYTGQASSDCLETVRPPSMQQCESKCDSTPISNT  
EECKDVNKVAYCPLVLKFKFCSRAYFRQMCCKTCQGH

>sp|POC7T5|ATX1L\_HUMAN Ataxin-1-like OS=Homo sapiens GN=ATXN1L PE=1 SV=1

MKPVHERSQECLPPKKRDLPTVSEDMGRTTSCSTNHTPSSDASEWSRGVVVAGQSQAGAR  
VSLGGDGAEAITGLTVDQYGMLYKAVPPATFSPTGLPSVNMSPLPPTFNVASSLIQHP  
GIHYPLHYAQLPSTSLQFIGSPYSLPYAVPPNFLPSPLSPSANLATSHLPHFVPYASL  
LAEGATPPPQAPSPAHSFNKAPSATSPSGQLPHHSSTQPLDLAPGRMPIYYQMSRLPAGY  
TLHETPPAGASPVLTQESQSALEAAAANGGQRPRERNLVRRESEALDSPNSKGEQGLV  
PVVECVVDGQLFSGSQTPRVEVAAPAHRGTPDTDLEVQRVVGALASQDYRVVAAQRKEEP  
SPLNLSHHTPDHQEGRGARSARPAELAEKSQARGFYPSHQEPVKHRPLPKAMVVANGNL  
VPTGTDSGLLPVGSEILVASSLDVQARATFPDKEPTPPPITSSHLPSHFMKGAI IQLATG  
ELKRVEDLQTQDFVRSAEVSGGLKIDSSTVVDIQESQWPGFVMLHFVVGEQQSKVSIIEVP  
PEHPFFVYGGWSSCSPGRTTQLFSLPCHRLQVGDVCISISLQSLNSNSVSQASCAPPSQ  
LGPPRERPRTVLGSRELCDSEKSGPAGEGSRVVEPSQPESGAQACWPAPSFQRYSMQG  
EEARAALLRPSFIPQEVKLSIEGRSNAGK

>sp|Q8WWM7|ATX2L\_HUMAN Ataxin-2-like protein OS=Homo sapiens GN=ATXN2L PE=1 SV=2

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SRMLHFLTAVVGSTCDVKVKNGTTYEGIFKTLSSKFELAVDAVHRKASEPAGGPRREDIV  
DTMVFKPSDVMLVHFRNVDFNYATKDKFTDSAIAMNSKVNGEHKEKVLQRWEGGDSNSDD  
YDLESMSNGWDPNEMFKFNEENYGKTTYDSSLSSYTVPLEKDNSEEFQRELRAAQLA  
REIESSPQYRLRIAMENDDGRTEEEKHSAVQRQSGRESPLASREGKYIPLPQRVREGP  
RGGVRCSSSRGGRPLSSLPPRGP HLDNSSPGPGSEARGINGGSPRMSPKAQRPLRGAK  
TLSSPSNRPSGETSVPPPPAVGRMYPPRSPKSAAPAPISASCEPPIGSAVPTSSASIPV  
TSSVSDPGVGSISPASPKISLAPTDVKELSTKEPGRTLEPQELARIAGKVPGLQNEQKRF  
QLEELRKFGAQFKLQPSSSPENSLDPFPRIILKEEPKGKEKEVDGLLTSEPMGSPVSSKT  
ESVSDKEDKPLAPSGGTEGPEQPPPPCPSQTGSPPVGLIKGEDKDEGPVAEQVKKSTLN  
PNAKEFNPTKPLLSVNKSTSTPTSPGPRTHSTPSIPVLTAGQSGLYSPQYISYIPQIHMG  
PAVQAPQMYPYPSNSVPGQQGKYRGAKGSLPPQRSDQHQPASAPPMQAAAAAGPPLVA  
ATPYSSYIPYNPQQFPGQAMMQPMAHYPSPVFAPMLQSNPRMLTSGSHPQAIVSSSTP  
QYPSAEQPTPQALYATVHQSYPHHATQLHAHQPPATTPTGSQPQSQAAPSPVQHQAQQ  
APHLGSGQPQQNLYHPGALTGTPPSLPPGPSAQSPQSSFPQPAAVYAIHHQQLPHGFTNM  
AHVTQAHVQTGITAAPPHPGAPHPPQVMLLHPPQSHGGPPQGAVPQSGVPALSASTPSP  
YPYIGHPPQGEQPGQAPGFPGGADDRIREFSLAGGIWHGRAEGLQVGQDARVLGGE

>sp|Q9H1Z8|AUGN\_HUMAN Augurin OS=Homo sapiens GN=C2orf40 PE=2 SV=1

MAASPARPAVLALTGLALLLLLCWGGPGGISGNKLKMLQKREAPVPTKTKVAVDENKAKE  
FLGSLKRQKRQLWDRTRPEVQQWYQQFLYMGFDEAKFEDDITYWLNDRNGHEYYGDYYQ  
RHYDEDSAIGPRSPYGRFHGASVNYDDY

>sp|Q96GD4|AURKB\_HUMAN Aurora kinase B OS=Homo sapiens GN=AURKB PE=1 SV=3

MAQKENSYPWPYGRQTAPSGSLSTLPQRVLRKEPVTPSALVMSRSNVQPTAAPGQKVMEN  
SSGTPDILTRHFTIDDFEIGRPLGKGKFGNVYLAREKKSHFIVALKVLFKSQIEKEGVEH  
QLRREIETIAHLHHPNILLRYNYFYDRRRIYLILEYAPRGELYKELQKSCTFDEQRTATI  
MEELADALMYCHGKKVIHRDIKPENLLLGLKGELKIADFGWSVHAPSLRRKTMCGTLDYL  
PPEMIEGRMHNEKVDLWCIGVLCYELLVGNPPFESASHNETYRRIVKVDLKFPASVPMGA  
QDLISKLLRHNPSERLPLAQVSAHPWVRANSRRVLPPSALQSV

>sp|Q9BYG0|B3GN5\_HUMAN Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase  
OS=Homo sapiens GN=B3GNT5 PE=1 SV=1

MRMLVSGRRVKKWQLIIQLFATCFLASLMFFWEPIDNHIVSHMKSYSYRYLINSYDFVND  
TSLKHTSAGPRYQYLINHKECKQAQDVLLLFVKTAPENYDRRSGIRRTWGNENYVRSQ  
LNANIKTLFALGTPNPLEGEELQRKLAWEDQRYNDIIQQDFVDSFYNLTLKLLMQFSWAN  
TYCPHAKFLMTADDDIFIHMPNLEIYLSLEQIGVQDFWIGRVHRGAPPIRDKSSKYYVS  
YEMYQWPAYPDYTAGAAYVISGDVAAKVYEASQTLNSSLYIDDVFMGLCANKIGIVPQDH  
VFFSGEGKTPYHPCIEYKMMTSHGHLEDLQDLWKNATDPKVKTISKGFFGQIYCRMKII  
LLCKISYVDITYPCRAAFI

>sp|Q67FW5|B3GNL\_HUMAN UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like  
protein 1 OS=Homo sapiens GN=B3GNTL1 PE=2 SV=2

MSGAGVGASEESQAMQAHVSIILPVHNAEPWLDECLRSVLQQDFEGTMELSVFNDASKD  
KSGAIIIEKWRVKLEDSGVHVIIGGHDSPSPRGVGYAKNQAVAQSSGSYLCFLDSDDVMMMP  
QVRVLQHEAAVQHPSSIIGCRVRDPPNSTERYTRWINQLTPEQLLTQVFTSNGPTVIMP  
TWFCSSRAWFSHVGPFGNEGQGVPEDLLFFYEHLRKGGGVIRVDQSLLLYRHHPQAATHCV  
LETTIWTHRVRFLFEEQALPRWAAFTIWNAGKQGRRLYRSLTAGSQRKVVAFCVDENKIR  
KGFYCHEDSQERPKPRIPILHFRAARPPFVICVKDLTGAFEDNLRSLHLQEGQDFLHF  
S

>sp|Q9BSB4|ATGA1\_HUMAN Autophagy-related protein 101 OS=Homo sapiens GN=ATG101 PE=1 SV=1

MNCRSEVLEVSVEGRQVEEAMLAHLTVLLHRSTGKFHYKKEGTYSIGTVGTQDVDCDFI  
DFTYVRSSEELDRLRKVVGEFKDALRNSGGDGLGQMSLEFYQKKKSRRWPFSDCIPWE  
VWTVKVHVVALATEQERQICREKVGEKLCEKIIINIVEVMNRHEYLPMPTQSEVDNVFDT  
GLRDVQPPLYKISFQITDALGTSVTTTMRRLIKDTLAL

>sp|Q32M88|ATHL1\_HUMAN Acid trehalase-like protein 1 OS=Homo sapiens GN=ATHL1 PE=1 SV=2

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PLNVRLEAPAGMGEQLTETFALDNTGSLHTLEGPRFRASQCIYAHRTLPHVLAFRVSI  
ARLAPGSGPITLLLSAFSPESPDLDLHQGPDFQGARYLYGHTLTPEQPGGPQQEVHMLW  
TPAPDPLTLGEGEEARTWDFLTAVGGSQAQAQCLTEALQLQARGALYTAHAQAWAQLWV  
ECGLDVVGPLQLRQALRGSLYLLSALPQPKAPGYICHGLSPGGLSNGSREECYWGHVFW  
DQDLWMFPSILMFHPEAARAILEYRIRTLGALENAQNLGYQGAKFAWESADSGLEVCPE  
DIYGVQEVHVNGAVVLAFELYHTTQDLQLFREAGGWDVVRVAEWFCSRVEWSPREEKY  
HLRGVMSPEYHSGVNNSVYTNVLVQNSLRFAAALAQDLGLPIPSQWLAVADKIKVPFDV  
EQNFHPEFDGYEPGEVVKQADVLLGYPPVPSLSPDVRRKNLEIYEAVTSPQGPAMTWSM  
FAVGWMEKDAVRARGLLDRSFANMAEPFKVWTENADGSGAVNFLTGMGGFLQAVVFGCT  
GFRVTRAGVTFDPVCLSGISRVSVSGIFYQGNKLNFSFSEDSVTVEVTARAGPWAPHLEA  
ELWPSQSRLSLLPGHKVSFPRISAGRIQMSPPKLPGSSSSEFPGRTFSDVRDPLQSPWVT  
LGSSSPTESLTVDPASE

>sp|Q9UII2|ATIF1\_HUMAN ATPase inhibitor, mitochondrial OS=Homo sapiens GN=ATPIF1 PE=1 SV=1

MAVTALAARTWLGVWGVRTMQARGFGSDQSENVDRGAGSIREAGGAFGKREQAEEERYFR  
AQSREQLAALKKHHEEEIVHHKKEIERLQKEIERHKQKIKMLKHDD

>sp|P82987|ATL3\_HUMAN ADAMTS-like protein 3 OS=Homo sapiens GN=ADAMTSL3 PE=1 SV=4

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HDCPPDAEDFRAQQCSAYNDVQYQGHYYEWLPRYNDPAAPCALKCHAQGGNLVVELAPKV  
LDGTRCNTDSLDMCISGICQAVGCDRQLGSNAKEDNCGVCAGDGSTCRLVRGQSKSHVSP  
EKREENVIAVPLGSRSVRITVKGPAHLFIESKTLQGSKGEHSFNSPGVFLVENTTVEFQR  
GSERQTFKIPGPLMADFIFKTRYTAAKDSVVQFFFYQPI SHQWRQTDFFPCTVTTCGGGYQ  
LNSAECVDIRLKRVPDHYCHYYPENVKPKPKLKECSMDPCPSSDGFEIMPYDHFQPLP  
RWEHNPWTACSVSCGGGIQRRSFVCVEESMHGEILQVEEWKCMYAPKPKVMQTCNLFDCP  
KWIAMEWSQCTVTTCGRGLRYRVVLCINHRGEHVGGCNPQLKLHIKEECVPIPCYKPKKEK  
SPVEAKLPWLKQAQEEETRIATEEPTFIPEPWSACSTTCGPGVQVREVKCRVLLTFTQT  
ETELPEEECEGPKLP TERPCLLEACDESPASRELDIPLPEDSETTYDWEYAGFTPCTATC  
VGGHQEAIAVCLHIQTQQTVNDSLCDMVHRPPAMSQACNTEPCPPRWHVGSWGPCSATCG  
VGIQTRDVYCLHPGETPAPPEECRDEKPHALQACNQFDCPPGWHIEEWQCSRTC GG GTQ  
NRRVTCRQLLTDGSFLNLSDEL CQGP KASSHKSCARTDCPPHLAVGDWSKCSVSCGVGIQ  
RRKQVCQRLAAKGRRIPLEMMCRDLPGLPLVRSCQMEPCSKIKSEMKT KLGEQGPQILS  
VQRVYIQTREEKRINLTIGSRAYLLPNTSVI IKCPVRRFQKSLIQWEKDGRCLQNSKRLG  
ITKSGSLKIHGLAAPDIGVYRCIAGSAQETVV LKLIGTDNRLIARPALREPMREYPGMDH  
SEANSLGVTWHKMRQMWNNKNDLYLDDHISNQPFRLALLGHCSNSAGSTNSWELKNKQF  
EAAVKQGAYSMDTAQFDELIRNMSQLMETGEVSDDLASQLIYQLVAELAKAQPTHMQWRG  
IQEETPPAAQLRGETGSVSQSSHAKNSGKLTFKPKGPVLMRQSQPPSISFNKTINSRIGN  
TVYITKRTEVINILCDLITPSEATYTWTKDGTLLQPSVKIILDGTGKIQIQNPTRKEQGI  
YECSVANHLGSDVESSSVLYAEAPVILSVERNITKPEHNHLSVVVG GIVEAALGANVTIR  
CPVKGPVQPNITWLKRGGSLSGNV SLLFNGSLLLQNV SLENEGTYVCIATNALGKAVATS  
VLHLLERRWPESRIVFLQGHKKYILQATNTRTNSNDPTGEPPPQEPFWEPGNWSHCSATC  
GHLGARIQRPQCV MANGQEVSEALCDHLQKPLAGFEP CNIRDCPARWFTSVWSQCSVSCG  
EGYHSRQVTCKRTKANGTVQVVS PRACAPKDRPLGRKPCFGHPCVQWEPGNRCPGRCMGR  
AVRMQQRHTACQHNSDSNCDRKRPTLRNCTSGACDVCWHTGPWKPTAACGRGFQSR  
KVDCIHTRSCKPVAKRHC VQKKKPI SWRHCLGPSCDRDCTDTTHYCMFVKHLNLCSLD RY  
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>sp|Q6UY14|ATL4\_HUMAN ADAMTS-like protein 4 OS=Homo sapiens GN=ADAMTSL4 PE=1 SV=2

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RGGPLRG PASHLGREETQEIRAARRSRLRDP IKPGMFGYGRVPFALPLHRNRRHRSPPR  
SELSL ISSRGEEAIPSPTPRAEPFSANGSPQTELPPTELSVHTPSPQAEPLSPETAQTEV  
APRTRPAPLRHHPRAQASGTEPPSPTHSLGEGGFFRASPPRRPSSQGWASPVAGRRPD  
PFPSVPRGRGQQGQGPWGTGGTPHGRLEPDQHPGAWLP LLSNGPHASSLWSLFAPSSP  
IPRCSGESEQLRACSQAPCPPEQDPRALQCAAFNSQEFMGQLYQWEPFTEVQGSQRCEL  
NCRPRGFRFYVRHTEKVQDGTLCQPGAPDICVAGRCLSPGCDGILGSGRRPDGCGVC GGD  
DSTCRLVSGNLTDRGGPLGYQKILWIPAGALRLQIAQLRPSSNYLALRGP GGRS IINGNW

AVDPPGSYRAGGTVFRYNRPREEKGESLSAEGPTTQPDVYMIFQEENPGVFYQYVIS  
SPPPILENPTPEPPVPQLQPEILRVEPPLAPAPRPARTPGTLQRQVRIPQMPAPHPRTP  
LGSPAAYWKRVGHSACSASCGKGVWRPIFLCISRESGEELDERSCAAGARPPASPEPCHG  
TPCPPYWEAGEWTSRSCGPGTQHRQLQCRQEFGGGGSSVPPERCGHLPRPNITQSCQL  
RLCGHWEVGSPWSQCSVRCGRGQRSRQVRCVGNNGDEVSEQECASGPPQPPSREACDMGP  
CTTAWFHSDWSSKCSAECGTGIQRRSVVCLGSGAALGPGQGEAGAGTGQSCPTGSRPPDM  
RACSLGPCERTWRWYTGWGECSSECGSGTQRRDIICVSKLGTEFNVTSPSNCSHLPRPP  
ALQPCQGACQDRWFSTPWSPCSRSCGGGTQTREVQCLSTNQTLSRCPPLRPSRKRPC  
NSQPCSQRPDQCKDSSPHCLVQARLCVYPYYTATCCRSCAHLERSPDPS

>sp|075947|ATP5H\_HUMAN ATP synthase subunit d, mitochondrial OS=Homo sapiens GN=ATP5H  
PE=1 SV=3

MAGRKLALKTIDWFAAEIIPQNQKAIASSLKSUNETLTSRLAALPENPPAIDWAYYKAN  
VAKAGLVDDFEKKFNALKVPVPEDKYTAQVDAEEKEDVKSCEWVSLSKARIVEYEKEME  
KMKNLIPFDQMTIEDLNEAFPETKLDKKKYYPWPHQPIENL

>sp|P56385|ATP5I\_HUMAN ATP synthase subunit e, mitochondrial OS=Homo sapiens GN=ATP5I  
PE=1 SV=2

MVPPVQVSPLIKLGRYSALFLGVAYGATRYNYLKPRAEEERRIAAEEKKKQDELKRIARE  
LAEDDSILK

>sp|P03928|ATP8\_HUMAN ATP synthase protein 8 OS=Homo sapiens GN=MT-ATP8 PE=1 SV=1  
MPQLNTTVWPTMITPMLLTFLITQLKMLNTNYHLPPSPKPMKMNYNKPWEKWKTKICS  
LHSLPPQS

>sp|075882|ATRN\_HUMAN Attractin OS=Homo sapiens GN=ATRN PE=1 SV=2

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PAGWVGEQCQHCGGRFLTGSSGFVTDGPGNYKYKTKCTWLEGGPNRIMRLRFNHFATE  
CSWDHLYVYDGDISIYAPLVAAFSLIVPERDGNETVPEVVATSGYALLHFFSDAAYNLTG  
FNITYSFDMPNNSGRGECKISNSSDTVECECSENWKGEACDIPHCTDNCGFPHRGICN  
SSDVRGCSCFSDWQPGGCSVPVPANQSFWTREEYSNLKLPRASHKAVVNGNIMWVVGGM  
FNHSDYNMVLAYDLASREWLPNRSVNNVVRYGHSALALYKDKIYMYGKIDSTGNVTNE  
LRVFHIIHNESWVLLTPKAKEQYAVVGHSAHIVTLKNGRVVMLVIFGHCPLYGYISNVQEY  
DLDKNTWSILHTQGALVQGGYGHSSVYDHRTRALYVHGGYKAFSANKYRLADDLRYDVD  
TQMWTILKDSRFFRYLHTAVIVSGTMLVFGGNTHNDTSMHGAKECFSSDFMAYDIACDRW  
SVLPRPDLHHDVNRFGHSAVLHNSTMYVFGGFNSLLSDILVFTSEQDAHRSEAACLA  
GPGIRCWNTGSSQCISWALATDEQEEKLKSECFSKRTLDHRCQHTDCYSCTANTNDC  
HWCNDHCVPRNHSCSEGQISIFRYENCPKDNPMYYCNKKTSCRSCALDQNCQWEPRNQE  
IALPENICGIGWHLVGNISCLKITTAKENYDNAKLFCRNHNALLASLTQKKVEFVLKQLR  
IMQSSQSMSTLTPVWGLRKINVSYWCWEDMSPFTNSLLQWMPSEPSDAGFCGILSEPS  
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SNAYVASFPFGQCMWYTMSTCPPENCSTGSHCLEQPGCGWCTDPSNTGKGKCI  
YKGPVKMPSQAPTGNFYPLNLSMCLDSRYNWSFIHCPACQCNHSGKINQSICEK  
ENLTTGKHCETCISGFYGDPTNGGKCQPCCKNGHASLCNTNTGKCFCTTKGVKGDECQLC  
EVENRYQGNPLRGTCYYTLLIDYQFTFSLSQEDDRYYTAINFVATPDEQNRDLDMFINAS  
KNFNLNITWAASFSAGTQAGEEMPVVSKTNIKEYKDSFSNEKFDNRNHPNITFFVVS  
NFWPIKIQIAFSQHSNFMDLVQFFVTFFSCFLSLLLVAAVVWIKQSCWASRRREQLLREM



QQMASRPFASVNVALETDEEPPDLIGGSIKTVPKPIALEPCFGNKA AVL SVFVRLPRGLG  
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>sp|Q13535|ATR\_HUMAN Serine/threonine-protein kinase ATR OS=Homo sapiens GN=ATR PE=1 SV=3

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KKICEVICSLFLFKSKSPAIFGVLTKELLQLFEDLVYLHRRNVMGHAVEWPVMSRFLS  
QLDEHMGYLQSAPLQLMSMQNLEFIEVTLLMVLTRIIAIVFFRRQELLWQIGCVLLEYG  
SPKIKSLAISFLTELFQLGGLPAQPASTFFSSFLELLKHLVEMDTDQLKLYEPLSKLIK  
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YESALQVRKVYVRNICKALLDVLGIEVDAEYLLGPLYAALKMESMEIEEIQCQTQQENL  
SSNSDGISPKRRRLSSSLNPSKRAPKQTEEIKHVDMNQKSILWSALKQKAESLQISLEYS  
GLKNPVIEMLEGI AVLQLTALCTVHC SHQNMNCR TFKDCQHKS KKKPSV VITWMSLDFY  
TKVLKSCRSLLESVQKLDLEATIDKVVKIYDALIYMQVNSSFEDHILEDLCGMLS LPWIY  
SHSDDGCLKLTTFANLLTLSCRISDSYSPQAQSRCVFLTLFPRRIFLEWRTAVYNWAL  
QSSHEVIRASCVSGFFILLQQQNSCNRPKILIDKVKDDSDIVKKEFASILGQLVCTLHG  
MFYLTSSLTEPFSEHGHVDLFCRNKATSQHECSSQLKASVCKPFLFLLKKKIPSPVKL  
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FIKELFVLRMKEAYTHAQISRNNELKDTLILTGTDIGRAAKGDLVPFALLHLLHCLLSKS  
ASVSGAAYTEIRALVAAKSVKLQSFFSQYKKPICQFLVESLHSSQMTALPNTPCQNADVR  
KQDVAHQREMANLTSEIANVFDFPD LNRFLTRTLQVLLPD LAAKASPAASALIRTLGKQ  
LNVNRREILINNFKYIFSHLVCSCKDELERALHYLKNETEIELGSLLRQDFQGLHNELL  
LRIGEHYQQVFNGLSILASFASDDPYQGPRDIISPELMADYLQPKLLGILAFFNMQLLS  
SSVGIEDKKMALNSLMMLKMGPKHVSSVRVKMMTTLRTGLRFKDDFPELCCRAWD CFV  
RCLDHACLGSLLSHVIVALLPLIHIQPKETA AIFHYLI IENRDAVQDFLHEIYFLPDHPE  
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KVRHDLASKIFTCCSIMMKHDFKVTIYLLPHILVYVLLGCNQEDQQEVYAEIMAVLKHDD  
QHTINTQDIASDLCLSTQT VFSMLDHLTQWARHKFQALKA EKCPH SKSNRNKVDSMVST  
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AAMHEPDGVAGVSAIRKAEP SLKEQILEHESLGLLRDATA CYDRAIQLEPDQIIHYHG VV  
KSMLGLGQLSTVITQVNGVHANRSEWTDEN TYRVEAAWKL SQWDLVENYLAADGKSTTW  
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EHSIKPLFQHSPGDSSQEDSLNWVARLEMTQNSYRAKEPILALRRALLSLNKRPDYNEMV  
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ELCFPENETPPEGKNMLIHGRAMLLVGRFMEETANFESNAIMKKYKDV TACLPEWEDGHF  
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MEIIAKVFLAYPQQAMWMMTAVSKSSYPMRVNRCKEILNKA IHMKKSLEKFVGDATRLTD  
KLELCNKPV DGSSSTLSMSTHF KMLKKLVEEATFSEIL IPLQSVMIPTLPSILGTHANH  
ASHEPFP GHWAYIAGFDDMVEILASLQKPKKISLKGSDGKFYIMMCKPKDDL RKDCRLME  
FNSL INKCLRKDAESRRRELHIRTYAVIPLNDECGIIEWVNNTAGLRPILTKLYKEKGVY  
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TAVMSMGYILGLGRHGENILFDSL TGECVHDFNCLFNKGETFEVPEIVPFR LTHNMV  
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TPYM

>sp|Q76LX8|ATS13\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 13  
OS=Homo sapiens GN=ADAMTS13 PE=1 SV=1

MHQRHPRARCPLCVAGILACGFLGCGWGPSHFQQSCLQALEPQAVSSYLSPGAPLKGRP  
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GAQFRVHLVKMVILTEPEGAPNITANLTSSLLSVCGWSQTINPEDDTPGHADLVLYITR  
FDLELPDGNRQVRGV TQLGGACSP TWSCLITEDTGFDLGVTIAHEIGHSFGLEHDGAPGS  
GCGPSGHVMASDGAAPRAGLAWSPCSRRLSLLSAGRARCVDPPRPQPGSAGHPDAQ  
PGLYYSANEQCRVAFGPKAVACTFAREHLMCQALSCHTDPLDQSSCSRLLVPLLDGTEC  
GVEKWCSKGRCRSLVELTPIAAVHGRWSSWGPRSPCSRSCGGGVVTRRRQCNNPRPAFGG  
RACVGADLQAEMCNTQACEKTQLEFMSQQCARTDGGPLRSSPGGASFYHWGAAPHSQGD  
ALCRHMCRAIGESFIMKRGDSFLDGT RCMPSGPREDGTLSLCVSGSCRTFGCDGRMDSQQ  
VWDRCQVCGGDNSTCSPRKG SFTAGRAREYV TFLTVTPNLTSVYIANHRPLFTHLAVRIG  
GRYVVAGKMSISPN TTPSLL EDGRVEYRV ALTEDRLPRLEEIRIWGPLQEDADIQVYRR  
YGEEYNLTRPDITFTYFQPKPRQAWVWA AVRGPCSVSCGAGLRWVNYSCLDQARKELVE  
TVQCQGSQQPPAWPEACVLEPCPPYAVGDFGPCSASCGGLRERPVR CVEAQGSLLKTL  
PPARCRAQAQPAVALET CNPQPCPARWEVSEPSSCTSAGGAGLALENETCVPGADGLEA  
PVTEGPGSVDEKLPAPEPCVMGSCPPGWGHL DATSAGEKAPSPWGSIRTGAQAAHVWTPA  
AGSCSVSCGRGLMELRFLCMLSALRVPVQEELCGLASKPGSRREVCQAVPCPARWQYKLA  
ACSVSCGRGVVRRILYCARAHGEDDGEEIILDTQCQGLPRPEPQEACSL EPCPPRWKVM  
LGPCSASCGLTARRSVACVQLDQGQDVEVDEAAACALVRPEASVPCL IADCTYRWHVGT  
WMECSVSCGDGIQRRRD TCLGPAQAPVPADFCQHLPKPVTVRGCWAGPCVGGTPSLVP  
HEEAAAPGRTTATPAGASLEWSQARGLLFSPAPQPRRLLPGPQENSVQSSACGRQHLEPT  
GTIDMRGPGQADCAVAIGRPLGEVVTLRVLESSLNCSAGDMLLLWGRLTWRKMCRKLLDM  
TFSSKTNTLVVRQRCGRPGGVLLRYGSQ LAPETFYRECDMQLFGPWGEIVSPSLSPATS  
NAGGCRLFINVAPHARIAIHALATNMGAGTEGANASYILIRDTHSLRTTAFHGQQVLYWE  
SESSQAEMEFSEGF LKAQASLRGQYWTLSWVPEMQDPQSWKGKEGT

>sp|Q8TE56|ATS17\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 17  
OS=Homo sapiens GN=ADAMTS17 PE=2 SV=2

MCDGALLPPLVLPVLLLLVWGLDPGTAVGDAAADVEVVLPWRVRPDDVHL PPLPAAPGPR  
RRRRPRTPPAAPRARPGERALLHLPAFGRDLYLQLRRDLRFLSRGFEVEEAGAARRRGR  
PAELCFYSGRVLGHPGSLVLSACGAAGGLVGLIQLGQEQLIQPLNNSQGPFSGREHLI  
RRKWSLTPSPSAEAQRPEQLCKVLTEKKKPTWGRPSRDWRERRNAIRLTSEHTVETLVVA  
DADMVQYHGAEAAQRFILTMNMVYNMFQHQSLGIKINIQT KLVL LRQRP AKLSIGHHG  
ERSLESFCHWQNEEYGGARYLGNNQVPGGKDDPPLVDAAVFVTRTDFCVHKDEPCDTVGI  
AYLGGVCSAKRKCVLAEDNGLNLAFTIAHELGHNLGMNHDDDHSSCAGRSHIMSGEWWKG  
RNPSDLSWSSCSRDDL ENFLKSKVSTCLLVTDPRSQHTVRLPHKLPGMHYSANEQCQILF  
GMNATFCRNMEHLMCAGLWCLVEGDT SCKTKLDPPLDGTECGADKWCRAGECVSKTPIPE  
HVDGDWSPWGAWSMCRTCGTGARFRQRKCDNPPPGPGGTHCPGASVEHAVCENLPCPKG  
LPSFRDQQCAHDRLSPKKKGLLTAVVVDDKPCELYCSPLGKESPLL VADRVL DGTPCGP  
YETDLCVHGKCQKIGCDGIIGSAAKEDRCGVCSGDGKTCHLVKGDFSHARGTALKDSGKG

SINSDWKIELPGEFQIAGTTVRVRRGLWEKISAKGPTKLPLHLMVLLFHDQDYGIIHYEY  
TVPVNRTAENQSEPEKPQDSLFIWTHSGWEGCSVQCGGGERRTIVSCTRIVNKTTTLVND  
SDCPQASRPEPQVRRCNLHPCQSRWVAGPWSPCSATCEKGFQHREVTVCYQLQNGTHVAT  
RPLYCPGPRPAAVQSCGEQDCLSIWEASEWSQCSASCGKGVWKRTVACTNSQGKCDASTR  
PRAEEACEDYSGCYEWKTGDWSTCSSTCGKGLQSRVVQCMHKVTGRHGSECPALSKPAPY  
RQCYQEVNCNDRINANTITSPRLAALTYKCTRDQWTVYCRVIREKNLCQDMRWYQRCCQTC  
RDFYANKMRQPPPN

>sp|Q8TE59|ATS19\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 19  
OS=Homo sapiens GN=ADAMTS19 PE=2 SV=2

MRLTHICCCCLLYQLGFLSNGIVSELQFAPDREWEVVPALWRREPVPAGGSGGSADP  
GWVRGVGGGSARAQAAGSSREVRVAPVPLEEPVEGRSESRLRPPPPSEGEDEELESQ  
ELPRGSSGAAALSPGAPASWQPPPPPPPPPPQAHAEPDGEVLLRIPAFSRDLYLLL  
RRDGRFLAPRFAVEQRPNPGPGPTGAASAPQPPAPPDAGCFYTGAVLRHPGSLASFSTCG  
GGLMGFIQLNEDFIFIEPLNDTMAITGHPHRVYRQKRSMEEEKVTEKSALHSHYCGIISDK  
GRPRSRKIAESGRGKRYSYKLQEQYNIETVVADPAMVSYHGADAARRFILTLNMFNL  
FQHKSLSVQVNLRVIKLILLHETPELYIGHHGKMLESFCKWQHEEFGKKNDIHLEMST  
NWGEDMTSVDAAILITRKDFCVHKDEPCDTVGIAYLSGMCSEKRCIIAEDNGLNLAFTI  
AHMGHNMGINHNDHPSCADGLHIMSGEWIKGQNLGDVSWSRCSKEDLERFLRSKASNC  
LLQTNPQSVNSVMVPSKLPGMTYTADEQCQILFGPLASFCQEMQHVICTGLWCKVEGEKE  
CRTKLDPPMDGTDCLGKWCKAGECTSRSAPEHLAGEWSLWSPCSRTCSAGISSRERKC  
PGLDSEARDCNGPRKQYRICENPPCPAGLPGRDWQCQAYSVRTSSPKHILQWQAVLDEE  
KPCALFCSPVGKEQPILLSEKVMGTSCGYQGLDICANGRCQKVGCDGLLGSLAREDHCG  
VCNGNGKSKCIKIGDFNHTRGAGYVEVLVIPAGARRIKVVEEKPAHSYLALRDAGKQSI  
SDWKIEHSGAFNLAGTTVHYVRRGLWEKISAKGPTTAPLHLLVLLFQDQNYGLHYEYTIP  
SDPLPENQSSKAPEPLFMWHTHSWEDCDATCGGGERKTTVSCTKIMSKNISVDNECKY  
LTKPEPQIRKNEQPCQTRWMTETWPCSRTCGKGMQSRQVACTQQLSNGTLIRARERDC  
IGPKPASAQRCEGQDCMTVWEAGVWSECSVKCGKGIHRHTRVCTNPRKKCVLSTRPREAE  
DCEDYSKCYVWRMGDWSKCSITCGKGMQSRVIQCMHKITGRHGNECFSSSEKPAAYRPCHL  
QPCNEKINVTITSPRLAALTFKCLGDQWPVYCRVIREKNLCQDMRWYQRCCETCRDFYA  
QKLQQKS

>sp|095450|ATS2\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 2  
OS=Homo sapiens GN=ADAMTS2 PE=2 SV=2

MDPPAGAARRLLCPALLLLLLLLPPPLPPPPPPANARLAAAADPPGGPLGHGAERILAV  
PVRTDAQRLVSHVSAATSRAGVRARRAAPVRTSPFPGGNEEPPGSHLFYNVTVFGRDL  
HLRLRPNARLVAPGATMEWQGEKGTTRVEPLLGSCLYVGDVAGLAEASSVALSNCDGLAG  
LIRMEEEFFIEPLEKGLAAQEAQGRVHVYRRPPTSPPLGGPQALDTGASLDSLDSL  
RALGVLEEHNSSRRRRARRHAADDYNIENVLLGVDDSVVQFHGKEHVQKYLTLMNIVNE  
IYHDESLGAHINVVLVRIILLSYGKMSMLIEIGNPSQSLENVCRWAYLQQKPDTHDEYH  
DHAIFLTRQDFGPGSMQGYAPVTGMCHPVRSCITLNHEDGFSSAFVVAHETGHVLMMEHDG  
QGNRCGDEVRLGSIMAPLVQAARFHRFHWSRCSQQELSRYLHSYDCLDDPFAHDWPALPQ  
LPGLHYSMNEQCRFDFGLGYMMCTAFRTFDPCQQLWCSHPDNYPYFCKTKKGPPLDGTMC  
PGKHCFKGHCIWLTDPILKRDGWSGAWSPFGSCSRTCGTVKFRTRQCDNPHPANGGRTC  
SGLAYDFQLCSRQDCPDSLADFREEQCRQWDLYFEHGDAQHHWLPHEHRDAKERCHLYCE  
SRETGEVVSMMKRMVHDGTRCSYKDAFSLCVRGDCRKGCDGVISSKQEDKCGVCGGDNS

HCKVVKGTFTRSPKKHGYIKMFEIPAGARHLLIQEVDATSHHLAVKNLETGKFILNEEND  
VDASSKTFIAMGVEWEYRDEDGRETLQTMGPLHGTITVLVIPVDTRVSLTYKMIHEDS  
LNVDDNNVLEEDSVVYEWALKKWSKPCGCGGSQFTKYGCRRRLDHKMMVHRGFCAALSK  
PKAIRRACNPQEQSQPVVWTGEWEPCSTCGRTGMQVRSVRCIQPLHDNTRSVMHAKHCN  
DARPESRRACRELCPGRWRAGPWSQCSVTCGNGTQERPVLCRTADDSFGICQEERPETA  
RTCRLGPCPRNISDPSKKSIVVQWLSRPDPDSPIRKISSKGHCQGDKSIFCRMEVLSRYC  
SIPGYNKLCKSCNLYNNLTNVEGRIEPPPGKHNDIDVFMPTLPVPTVAMEVRPSPSTPL  
EVPLNASSTNATEDHPETNAVDEPKIHGLEDEVQPPNLIPRRPSPYEKTRNQRIQELID  
EMRKKEMLGKF

>sp|Q9H3M9|ATX3L\_HUMAN Ataxin-3-like protein OS=Homo sapiens GN=ATXN3L PE=1 SV=2

MDFIFHEKQEGFLCAQHCLNNLLQGEYFSPVELASIAHQLDEEEMRMAEGGVTSSEYLA  
FLQQPSNMDDTGFFSIQVISNALKFWGLEIIHFNNPEYQKLGIDPINERSFICNYKQHW  
FTIRKFGKHWFNLNSLLAGPELISDTCLANFLARLQQQAYSVFVVKGDLPDCEADQLLQI  
ISVEEMDTPKLNKKLVKQKEHRVYKTVLEKVSEESDESGTSDQDEEDFQRALELSRQET  
NREDEHLRSTIELSMQGSSGNTSQDLPKTSCVTPASEQPKKIKEDYFEKHQQEQKQQQQQ  
SDLPGHSSYLHERPTTSSRAIESDLSDDISEGTVQAAVDITLEIMRKNLKIKEK

>sp|P54252|ATX3\_HUMAN Ataxin-3 OS=Homo sapiens GN=ATXN3 PE=1 SV=4

MESIFHEKQEGSLCAQHCLNNLLQGEYFSPVELSSIAHQLDEEEMRMAEGGVTSSEYRT  
FLQQPSGNMDDSGFFSIQVISNALKVWGLELILFNSPEYQRLRIDPINERSFICNYKEHW  
FTVRKLKGQWFNLNSLLTGPELISDTYLALFLAQLQEGYSIFVVKGDLPDCEADQLLQM  
IRVQQMHRPKLIGEELAQLKEQVRVHKTDLERVLEANDGSGMLDEDEEDLQRALALSRQEI  
DMEDEEADLRRAIQLSMQGSSRNISQDMTQTSNTLTSEELRKRREAYFEKQQKQQQQQ  
QQQQQGGDLGGSSHPERPATSSGALGSDLGKACSPFIMFATFTLYLTYELHVIFALHYS  
SFPL

>sp|Q13825|AUHM\_HUMAN Methylglutaconyl-CoA hydratase, mitochondrial OS=Homo sapiens  
GN=AUH PE=1 SV=1

MAAAVAAAPGALGSLHAGGARLVAACSAWLCPLRLPGSLAGRRAGPAIWAQGWVPAAGG  
PAPKRGYSSEMKTEDELVRVHLEENRGIVVLGINRAYGKNSLKNLIKMLSKAVDALKS  
DKKVRTIIIRSEVPGIFCAGADLKERAKMSSEVGPFVSKIRAVINDIANLPVPTIAAID  
GLALGGGLELALACDIRVAASSAKMGLVETKLAIIPGGGGTQRLPRAIGMSLAKELIFSA  
RVLDGKEAKAVGLISHVLEQNQEGDAAYRKALDLAREFLPQGPVAMRVAKLAINQGMEVD  
LVTGLAIEEACYAQTIPTKDRLEGLLAFKEKRPPRYKGE

>sp|Q6ZP68|ATPUN\_HUMAN Putative protein ATP11AUN OS=Homo sapiens GN=ATP11AUN PE=2 SV=1

MNSPEARLCVAQCRDSYPGCQLKDTRAWASSLKMDPAGLEGGPRDESREPPIRAQAAS  
WDQPQGCLTYKGRRSASGTQKQLQLPDTLSSLLCWRGAIMVYIKVTQTDSDNKLLSLLY  
R

>sp|Q8TE57|ATS16\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 16  
OS=Homo sapiens GN=ADAMTS16 PE=2 SV=3

MKPRARGWRGLAALWMLLAQVAEQAPACAMGPAAAAPGSPSVPRPPPPAERP GWMEKGEY  
DLVSAYEVDHRGDYVSHEIMHHQRRRRRAVPVSEVESLHLRLKGSRHDFHMDLRTSSSLVA  
PGFIVQTLGKTGKTSVQTLPPEDFCFYQGSLSHRNSSVALSTCQGLSGMIRTEEADYFL  
RPLPSHLSWKLGRAAQGSSPSHVLYKRSTEPHAPGASEVLVTSRTWELAHQPLHSSDLRL  
GLPQKQHF CGRRKKYMPQPPKEDLFI LPDEYKSCLRHKRSLLRSHRNEELNVETLVVVDK  
KMMQNHGHENITTYVLTILNMVSALFKDGTIGGNINIAIVGLILLEDEQPGLVISHHADH

TLSSFCQWQSGLMGKDGTRHDHAILLTGLDICSWKNEPCDTLGFAPISGMCSKYRSCTIN  
EDTGLGLAFTIAHESGHNFMIHDGEGNMCKKSEGNIMSPTLAGRNGVFSWSPCSRQYLH  
KFLSTAQAICLADQPKPVKEYKYPEKLPGELYDANTQCKWQFGEKAKLCMLDFKKDICKA  
LWCHRIGRKCETKFPAAEGTICGHDMWCRGGQCVKYGDEGPKPTHGHWSWSSWSPCSR  
TCGGGVSHRSLCTNPKPSHGGKFCEGSTRTLKLCNSQKCPRDSVDFRAAQCAEHNSRRF  
RGRHYKWKPYTQVEDQDLCKLYCIAEGFDFFFSLSNKVKGDTPCSEDSRNVCIDGICERV  
GCDNVLGSDAVEDVCGVCNGNNSACTIHRGLYTKHHHTNQYYHMTIPSGARSIRIYEMN  
VSTSYISVRNALRRYYLNGHWTVDWPGRYKFSGTTFDYRRSYNEPENLIATGPTNETLIV  
ELLFQGRNPGVAWEYSMPRLGTEKQPPAQPSYTWAIVRSECSVSCGGGQMTVREGCYRDL  
KFQVNMSFCNPKTRPVTGLVPCKVSACPPSWSVGNWSACSRTCAGGAQSRPVQCTRRVHY  
DSEVPASLCPQPAPSSRQACNSQSCPPAWSAGPWAECSTCGKGWRKRAVACKSTNPSA  
RAQLLPDAVCTSEPKPRMHEACLLQRCHKPKKLQWLVSQSVTCERGTQKRFLKCAE  
KYVSGKYRELASKKCSHLPKPSLELERACAPLPCRHPFAAAGPSRGSWFASPWSQCTA  
SCGGGVQTRSVQCLAGGRPASGCLLHQPSASLACNTHFCPIAEKKDAFCKDYFHWCYLV  
PQHGMCSHKFYGKQCKTCSKSNL

>sp|Q9UHI8|ATS1\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 1  
OS=Homo sapiens GN=ADAMTS1 PE=1 SV=4

MQRAVPEGFGRRLGSDMGNAERAPGSRSGPVPPTLLLLAAALLAVSDALGRPSEDEEL  
VVPELERAPGHGTTRLRLHAFDQQLDLELRPDSSFLAPGFTLQNVGRKSGSETPLPETDL  
AHCYSGTVNGDPSSAAALSLCEGVGAFYLLGEAYFIQPLPAASERLATAAPGEKPPAP  
LQFHLLRRNRQDVGTCGVVDDEPRPTGKAETEDEGTEGEDEGAQWSPQDPALQGVG  
QPTGTGSIRKKRFVSSHRYVETMLVADQSMAEFHSGSLKHYLLTLFSVAARLYKHPSIRN  
SVSLVVVKILVIHDEQKGPEVTSNAALTLRNFNCWQKQHNPPSDRDAEHYDTAILFTRQD  
LCGSQTCDTLGMADVGTVCDSRSCSVIEDDGLQAFTTAHELGHVFNMPHDDAKQCASL  
NGVNQDSHMMASMLSNLDHSQPWSPCSAYMITSFLDNHGCECLMDKPQNPIQLPGDLPGT  
SYDANRQCQFTFGEDSKHCPDAASTCSTLWCTGTSGGVLVCQTKHFPWADGTSCGEGKWC  
INGKCVNKTDRKHFDTPFHGSWGMWGPWGDCSRTCAGGVQYTMRECDNPVPKNGGKYCEG  
KRVYRSCNLEDCPDNNGKTFREEQCEAHNEFSKASFGSGPAVEWIPKYAGVSPKDRCKL  
ICQAKGIGYFFVLQPKVVDGTPCSPDSTSVCVQGCQVAGCDRIIDSKKKFDKCGVCVCGN  
GSTCKKISGSVTSAPKPYHDIITPTGATNIEVKQRNQRGSRNNGSFLAIIKAADGTIILN  
GDYTLSTLEQDIMYKGVVLRYSGSSAALERIRSFSPLEPLTIQVLTGNALRPKIKYTY  
FVKKKKESFNAIPTFSAWVIEEWGECSKSCELGWQRRLVECRDINGQPASECAKEVKPAS  
TRPCADHPCPQWQLGEWSSCSKTCGKGYKKRSLKCLSHDGGVLSHESCDPLKKPKHFIDF  
CTMAECS

>sp|Q9UNA0|ATS5\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 5  
OS=Homo sapiens GN=ADAMTS5 PE=1 SV=2

MLLGWASLLLLCAFRLPLAAVGAATPAQDKAGQPPTAAAAAQPRRRQGEEVQERAEPFGH  
PHPLAQRRRSKGLVQNIDQLYSGGGKVGYLVIYAGGRRFLDLERDGSVGIAGFVPAGGGT  
SAPWRHRSHCFYRGTVDGSPRLAVFDLCGGLDGFFAVKHARYTLKPLLRGPAWEEKGR  
VYGDGSARILHVYTREGFSFEALPPRASCETPASTPEAHEHAPAHSNPSGRAALASQLLD  
QSALSPAGGSGPQTWRRRRRSISRARQVELLLVADASMARLYGRGLQHLYLLTLASIANR  
LYSHASIIENHIRLAVVKVVLGDKDKSLEVSNAATTLKNFCKWQHQNQLGDDHEEHYD  
AAILFTREDLCGHHSCDTLGMADVGTICSPERSCAVIEDDGLHAAFTVAHEIGHLLGLSH  
DDSKFCEETFGSTEDKRLMSSILTSIDASKPWSKCTSATITEFLDDGHGNCLLDLPRKQI

LGPEELPGQTYDATQQCNLTFGPEYSVCPGMDVCARLWCAVVRQGMVCLTKKLPAVEGT  
PCGKGRICLQGKCVDTKKKKYYSTSSHGNGSWGSGWQCSRSCGGGVQFAYRHCNNPAPR  
NNGRYCTGKRAIYRSCSLMPCPPNGKSFRRHEQCEAKNGYQSDAKGVKTFVEWVPKYAGVL  
PADVCKLTCRAKGTGYVVVFSKVTGTECRLYSNSVCVRGKCVRTGCDGIIGSKLQYDK  
CGVCGDNSSCTKIVGTFNKSKGYTDVVRIPGATHIKVRQFKAKDQTRFTAYLALKKK  
NGEYLINGKYMISTSETIIDINGTVMNYSWWSHRDDFLHGMGYSATKEILIVQILATDPT  
KPLDVRYSFVPPKSTPKVNSVTSHGSKNVGSHTSQPQWVTGPWLACSRCTDTGWHTRTV  
QCQDGNRKLAKGCPLSQRPSAFKQCLLKKC

>sp|Q9UP79|ATS8\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 8  
OS=Homo sapiens GN=ADAMTS8 PE=2 SV=2

MLPAPAAPRWPLLLLLLLLLPLARGAPARPAAGGQASELVVPTRLPGSAGELALHLSAF  
GKGFVLR LAPDDSLAPEFKIERLGGSGRATGGERGLRGCFSGTVNGEPESLAAVSLCR  
GLSGSFLLDGEEFTIQPQGAGGSLAQPHRLQRWGPAGARPLPRGPEWEVETGEGQRQERG  
DHQEDSEEESEEEAEGASEPPPLGATSRTKRFVSEARFVETLLVADASMAAFYGADLQ  
NHILTLMSVAARIYKHSPIKNSINLMVVKVLIVEDEKWGPEVSDNGGLTLRNFCNWQRRF  
NQPSDRHPEHYDTAILLTRQNFCCQEGLCDTLGVADIGTICDPNKSCSVIEDEGLQAAHT  
LAHELGHVLSMPHDDSKPCTRLFGPMGKHVHMAPLFVHLNQTLWPSPCSAMYLTELDGG  
HGDCLLDAPAAALPLPTGLPGRMALYQLDQQRQIFGPDFRHCNNTSAQDVCAQLWCHTD  
GAEP LCHTKNGSLPWADGTPCGPGHLCSEGSCLPEEEVERPKPVADGGWAPWGPWGECSR  
TCGGGVQFSHRECKDPEPQNGGRYCLGRRAKYQSCHTTECPDGKSFREQQCEKYNAYNY  
TMDGNLLQWVPKYAGVSPDRCKLFCRARGRSEFKVF EAKVIDGTLCGPETLAICVRGQ  
CVKAGCDHVVDSPRKLDKCGVCGGKGNSCRKVSGLTPTNYGYNDIVTIPAGATNIDVKQ  
RSHPGVQNDGNYLALKTADGQYLLNGNLAI SAIEQDILVKGTILKYSGIATLERLQSF  
PLPEPLTVQLLTPGGEVFPKVKYTFVVPNDVDFSMQSSKERATTNIIQPLLHAQWVLGD  
WSECSSTCGAGWQRTVECRDPGQASATCNKALKPEDAKPCESQLCPL

>sp|Q9P2N4|ATS9\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 9  
OS=Homo sapiens GN=ADAMTS9 PE=1 SV=4

MQFVSWATLLTLLVRDLAEMGSPDAAA VRKDR LHPRQVKLLET LSEYEIVSPIRVNALG  
EPFPTNVHFKRTRRSINSATDPWPAFASSSSSTSSQAHYRLSAFGQQFLFNLTANAGFI  
APLFTVTLLGTPGVNQTKFYSEEEAE LKHC FYKGYVNTNSEHTAVISLCSGMLGTFRSHD  
GDYFIEPLQSMDEQEDEEEQNKPHIIYRSAPQREPSTGRHACDTSEHKNRHSKDKKKTR  
ARKWGERINLAGDVAALNSGLATEAFSAYGNKTDNTREKRTHRTRKFLSYPRFVEVLVV  
ADNRMVSYHGENLQHYILTLMSIVASIKDPSIGNLINIVIVNLIVIHNEQDGPSISFNA  
QTTLKNFCQWQHSKNSPGGIHHD TAVLLTRQDICRAHDKCDTLGLAELGTICDPYRSCSI  
SEDSGLSTAFTIAHELGHVFNMPHDDNNKCKEEGVKSPQHVMAPTLNFYTNPMMWSKCSR  
KYITEFLDTGYGECLLNEPESRPYPLPVQLPGILYNVNKQCELI FGPGSQVCPYMMQCRR  
LWCNNVNGVHKGCR TQHTPWADGTECEPGKHCKYGFVCKEMDVPVTDGWSGWSWSPFGTC  
SRTCGGGIKTAIRECNRPEPKNGGKYCVGRRMKFKSCNTEPCLKQKRDFRDEQCAHFDGK  
HFNINGLLPNVRWVPKYS GILMKDRCKLFCRVAGNTAYYQLRDRVIDGTPCGQDTNDICV  
QGLCRQAGCDHVLNSKARRDKCGVCGDNSSCTVAGTFNTVHYGYNTVVRIPAGATNID  
VRQHSFSGETDDDNYLALSSSKGEFLLNGNFVVTMAKREIRIGNAVVEYSGSETAVERIN  
STDRIEQELLQLVSVGKLYNPVRYSFNIP IEDKPQQFYWNSHGPWQACSKPCQGERKR  
KLVCTRES DQLTVSDQRCDRLPQPGHIT EPCGTD CDLRWHVASRSECSAQCGLYRTLDI  
YCAKYSRLDGKTEKVDDGFCSSHPKPSNREKCSGECNTGGWRYS AWTECSKSCDGGTQRR

RAICVNRNDVLDDSKCTHQEKVTIQRCEFPQWKSQDWSECLVTCGKGHKHRQVWCQ  
FGEDRLNDRMCDPETKPTSMQTCQQPECASWQAGPWGQCSVTGQGYQLRAVKCIIGTYM  
SVVDDNDCNAATRPDTQDCELPSCHPPPAAPETRRSTYSAPRTQWRFGSWTPCSATCGK  
GTRMRYVSCRDENGSVADESACATLPRPVAKEECSVTPCGQWKALDWSSCSVTGQGRAT  
RQVMCVNYS DHVIDRSECDQDI PETDQDCSMSPCQRTPD SGLAQHPFQ NEDYRPRSAS  
PSRTHVLGGNQWRTGPGWACSSTCAGGSQRRVVVCQDENGYTANDCVERIKPDEQRACES  
GPCPQWAYGNWGECKL CGGGIRTRLVVCQRSNGERFPDLSC EILDKPPDREQCNTHACP  
HDAAWSTGPWSSCSVSCGRGHKQRNVYCMADGSHLES DYCKHLAKPHGHRKCRGGRCPK  
WKAGAWSQCSVSCGRGVQQRHVGCQIGTHK IARETECNPYTRPESERDCQGPCPLYTWR  
AEEWQECTKTCGEGSRYRKVVCVDNKNVHGARCDVSKRPVDRESCSLQPCEYVWITGE  
WSECSVTGKGYKQLVSCSEIYTGKENYEYSYQTTINCPGTQPPSVHPCYL RDCPVSAT  
WRVGNWGS CSVSCGVGMQRSVQCLTNE DQPSHLCHTDLKPEERKTCRN VYNCELPQNCK  
EVKRLKGASEDGEYFLMIRGKLLKIFCAGMHS DHPKEYVTLVHG DSENFSEVYGHRLHNP  
TECPYNGSRRDDCQCRKDYTAAGFSSFQKIRIDLTSMQIIITDLQFARTSEGHVPVFATA  
GDCYSAACPQGRFSINLYGTGLSLTESARWISQGN YAVSDIKKSPDGTRVVGKCGGYCG  
KCTPSSGTGLEVRVL

>sp|Q9UQB9|AURKC\_HUMAN Aurora kinase C OS=Homo sapiens GN=AURKC PE=1 SV=1

MSSPRAVVQLGKAQPAGEELATANQTAQQPSSPAMRLTVDDFEIGRPLGKGKFGNVYLA  
RLKESHFIVALKVLFSQIEKEGLEHQLRREIEIQAHLQHPNLRLYNYFHDARRVYLIL  
EYAPRGELYKELQKSEKLDEQRTATII EELADALTYCHDKKVIHRDIKPENLLGFRGEV  
KIADFGWSVHTPSLRRKTMCGTLDYLPPEMIEGRTYDEKVDLWCIGVLCYELLVGYPFFE  
SASHSETYRRILKVDVRFPLSMPLGARDLISRLLRYQPLERLPLAQILKHPVWQAHSRRV  
LPPCAQMAS

>sp|075061|AUXI\_HUMAN Putative tyrosine-protein phosphatase auxilin OS=Homo sapiens  
GN=DNAJC6 PE=1 SV=3

MKDSENKGASSPDMEPSYGGGLFDMVKGGAGRLFSNLKDNLKDTLKDTSSRVIQSVTSYT  
KGDLDFTYVTSRIIVMSFPLDNVDIGFRNQVDDIRSFLDSRHL DHYTVYNLSPKSYRTAK  
FHSRVSECSWP IRQAPSLHNLFAVCRNMYNWLLQNPKNVCVHCLDGRAASSILVGAMFI  
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GWQQGGAYNWQQPKPQPSMPHSSPQNRPNYNVSFSAMPGGQNERGKGSSNLEGKQKAA  
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HTVLWAGETKWKVPGMADLVTPEQVKKVYRKAVLVVHPDKATGQPYEQYAKMIFMELNDA  
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>sp|Q13705|AVR2B\_HUMAN Activin receptor type-2B OS=Homo sapiens GN=ACVR2B PE=1 SV=3

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ASWRNSSGTIELVKKGCWLDDFN CYDRQECVATEENPQVYFCCCEGNFCNERFTHLPEAG

GPEVTYEPPTAPTLLTVLAYSLLPIGGLSLIVLLAFWMYRHRKPPYGHVDIHEDPGPPP  
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TRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELVSRCKAADGPVDEYMLPFEEEIGQ  
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>sp|O15169|AXIN1\_HUMAN Axin-1 OS=Homo sapiens GN=AXIN1 PE=1 SV=2

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CTGFRKLEPCDSNEEKRLKLARAIYRKYILDNNGIVSRQTKPATKSFIKGCIMQLIDPA  
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PHENSRLSLEHPWAGPQLRTSVQPSHLFIQDPTMPHPAPNPLTQLEEARRRLEEEKEK  
ASRAPSKQRYVQEVMRGRACVRPACAPVLHVPAVSDMELSETETRSQRKVGGSQAQPC  
DSIVVAYYFCGEPIPYRTLVRGRAVTLGQFKELLTKKGSYRYYFKKVSDEFDCGVVFEEV  
REDEAVLPVFEEKIIGKVEKVD

>sp|Q96A70|AZIN2\_HUMAN Antizyme inhibitor 2 OS=Homo sapiens GN=AZIN2 PE=1 SV=1

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PRVRPFYAVKCNSSPGVLKVLQAQLGLGFSCANKAEMELVQHIGIPASKIICANPCKQIAQ  
IKYAAKHGIQLLSFDNEMELAKVVKSHPSAKMVLCIATDDSHSLSCLSLKFGVSLKSCRH  
LLENAKKHHEVVGVSFHIGSGCPDPQAYAQSIADARLVFEMGTELGHKMHVLDLGGGFP  
GTEGAKVRFEETIASVINSALDLYFPEGCGVDIFAELEGYYVTSFTVAVSIIAKKEVLLD  
QPGREEENGSTSKTIVYHLDEGVYGFNSVLFDNICPTPILQKKPSTEQPLYSSSLWGPA  
VDGDCDVAEGLWPLQHLVGDWLVDNMGAYTVGMGSPFWGTQACHITYAMSRVAWEALRR  
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>sp|Q92843|B2CL2\_HUMAN Bcl-2-like protein 2 OS=Homo sapiens GN=BCL2L2 PE=1 SV=2

MATPASAPDTRALVADFVGYKLRQKGYVCGAGPGEPAADPLHQAMRAAGDEFETRFRRT  
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QVQEWVAYLETQLADWIHSSGGWAEFTALYGDGALEEARRLREGNWASVRTVLTGAVAL  
GALVTVGAFFASK

>sp|Q9HD36|B2L10\_HUMAN Bcl-2-like protein 10 OS=Homo sapiens GN=BCL2L10 PE=1 SV=2

MADPLRRETELLADYLGYCAREPGTPEPAPSTPEAAVLRSAARLRQIHRSFSAYLGY  
PGNRFELVALMADSVLSDSPGPTWGRVVTLVTFAGTLLERGPLVTARWKKWGFQPRLKEQ  
EGDVARDCQRLVALLSSRLMGQHRAWLQAQGGWDGFCFFRTPFPLAFWRKQLVQAFLSC  
LLTTAFIYLWTRLL

>sp|O43521|B2L11\_HUMAN Bcl-2-like protein 11 OS=Homo sapiens GN=BCL2L11 PE=1 SV=1

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QGGLAPPASPGPFATRSPFLIFMRRSSLLSRSSSGYFSFDTRSPAPMSCDKSTQTPSP  
CQAFNHYSAMASMRQAEPADMPEIWIQAELRRIGDEFNAYYARRVFLNNYQAAEDHPR  
MVILRLLRYIVRLVWRMH

>sp|094766|B3GA3\_HUMAN Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase  
3 OS=Homo sapiens GN=B3GAT3 PE=1 SV=2

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VSGLLAASGLLFTHLVVLTPKAQRLREGEPGVVHPRGVEQRNKALDWLRGRGGAVGG  
EKD PPPPGTQGVVYFADDNTYSRELFEEMRWTRGVSVPVGLVGGLRFEGPQVQDGRV  
VGFH TAWEPSRPFVDMAGFAVALPLLLDKPNAQFDSTAPRGHLESSLLSHLVDPKDLE  
PRAAN CTRVLVWHTRTEKPKMKQEEQLRQGRGSDPAIEV

>sp|Q8NFL0|B3GN7\_HUMAN UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7  
OS=Homo sapiens GN=B3GNT7 PE=2 SV=1

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NN FWKNPKDVAAPTMAQQGPQAWDVTTTNCNANINLTHQPWFQVLEPQFRQFLFYR  
HCRYF PMLLNHPKCRGDVYLLVVVKSIVITQHDRREAIRQTWGRERQSAGGGRGAV  
RTLFLLGTA SKQEERTHYQQLLAYEDRLYGDILQWGFLDITFFNLTLKEIHFLKWLDI  
YCPHVPFIFKGD DDVFNPTNLLEFLADRQPQENLFGVDVLQHARPIRRKDNKYIIPG  
ALYGKASYPPYAGG GGFLMAGSLARRLHHACDTLELYPIDDVFLGMCLEVLGVQPTA  
HEGFKTFGISRNRNSRM NKEPCFFRAMLVVHKLLPELLAMWGLVHSNLTCSRKLQVL

>sp|Q9H503|BAFL\_HUMAN Barrier-to-autointegration factor-like protein OS=Homo sapiens  
GN=BANF2 PE=1 SV=1

MDNMSPRLRAFLSEPIGEKDVWCWDGISHELAINLVTKGINKAYILLGQFLMHKNEA  
EF QRWLICCFGATECEAAQTSHCLKEWCACFL

>sp|Q9UL15|BAG5\_HUMAN BAG family molecular chaperone regulator 5 OS=Homo sapiens GN=BAG5  
PE=1 SV=1

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G KGDIQQARKKRAAQETERLLKELEQNANHPHRIETQNI FEEAQS  
LVREKIVPFYNGGNCVT DEFEEGIQDIILRLTHVKTGGKISLRKARYHTLTKICAVQ  
EIIEDCMKKQPSLPLSEDAH PSVAKINFVMCEVNKARGVLIALLMGVNNNETCRHL  
SCVLSGLIADLDALDVCGRTEIRN YRREVVEDINKLLKYLDLEEEADTTKAFDLRQ  
NHSILKIEKVLKRMREIKNELLQAQNPSELYLSSKTELQGLIGQLDEVSLKNPCIRE  
ARRRAVIEVQTLITYIDLKEALEKRKL  
FAC EEHPSHKAVWNVLGNLSEIQGEVLSFDGNRTDKNYIRLEELLTKQLLALDAVDP  
QGEEKC KAARKQAVRLAQNILSYLDLKSDEWEY

>sp|P46379|BAG6\_HUMAN Large proline-rich protein BAG6 OS=Homo sapiens GN=BAG6 PE=1 SV=2

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PGTRGP GASVHDRNANSYVMVGTFNLPSDGS  
AVDVHINMEQAPIQSEPRVRLVMAQH  
MIRDIQTLL SRMETLPYLQCRGGPQPQHSQPPPPAVTPEPVALSSQTSEPV  
ESEAPPREPMEAEVE ERAPAQNP  
ELTPGPAPAGTPAPETNAPNHPSPAEYVEVLQELQRLESRLQPFLQRY  
YEV LGAAATTDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCNLACTPP  
RHLHVVRP MSHYTTPMVLQQA  
APIQINVGTTVTMTGNGTRPPPTPN  
AEAPPPGPGQASSVAPSSTNV  
ESSAEGAPPPGPAPPATSHPRVIRISHQSV  
EPVMMHMNIQDSGTQPGGVPSAPTGLG  
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VSLVGQLMQPVLVAQGTGMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTQP  
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PPPPPPPAPEQQTMPPPGSPSGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARA  
GSSEIAAFIQLRSGSSNIFEPGADGALGFFGALLSLLCQNFMSVDVMLLHGHFQPLQR  
LQPQLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSLVQVQPGVDIIRTNLE  
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RMSRGVNPVSLVSWLTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGA  
ERASPEPQRENAPAGTTAAEAMSRGPPPAPEGGSRDEQDGASAETEPWAAAVPEWVP  
IIQQDIQSQRKVKPQPLSDAYLSGMPAKRRKTMQEGEPQLLSEAVSRAAKAAGARPLT  
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>sp|Q9P281|BAHC1\_HUMAN BAH and coiled-coil domain-containing protein 1 OS=Homo sapiens  
GN=BAHCC1 PE=1 SV=3

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PGYPRFSGSLASTFLPVSHLDHHGNSNVLYGQHRFYGTQKDNFYLRNLPPQPTLLPANHN  
FPSVARAAPAHMGCSCSRDRDRGEAGSLQKGPCKDFDRFLVGKELGREKAGKAAEGKERPA  
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SCAGGMLGRPGTGVVTSGRCAKEAAGPEPGPAFSECLERRQMLHHTASYAGPPPPLSTA  
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KDRHLEGTMAPDHAAPYGVSYAHLKAEGKGERRPGFEAALNPRLKGLDYLSSAGPEASF  
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DALVAATINLGDLPSPDPQPPAASGPPSTVPLPHSSGIHGIALLSLADLAIQRQRS  
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LSSFQQKEATPGGRIREKLSRAKSAKVSATRHPQPKGHGSRETTPRCPAQPSVAASQEAG  
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GACRLSSPESEVVIKRRSVKAKVGTTLERAPGQRPPGALGKKKAKGKAGSLRAEPGATP  
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GKGRKLSKVKKHAKGQKGRAVSRLLESFAVEEDFEFDDNSSFEEEEEEEEEEEDSGPL  
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RIYSLEQLLQEAVLDVRPQSSRYLPPGTRVCAYWSQKSRCLYPGNVVRGASGDEDEDLDS  
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PSLSPKAQDGPEALKTPGKKSISKDKAGKAELLTSGAKSPTGASDHFLGRRGSPLLSWSA  
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LASSYAPFVGGTGPGLPRGAHKLLRAKKAERVEAEKGRRRRAGGEFLVKLDHEGVTSPKN  
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PLPYDSDCSSSFDEDEDGPGLAAGVPSRFLARLSVSSSSSGSSTSSSSSGSVSTSSLCSS  
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GAGSGPSSSSSKSLKRKEALSFSKAKELSRQRPPSVENRPKISAFLPARQLWKWSGNPT  
QRRGMKGKARKLFYKAIVRGEETLRVGDCAVFLSAGRPNLPYIGRIESMWESWGSNMVVK  
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RQDLYYLAGTYDPTTGRLVTADGVPILC

>sp|Q9UQB8|BAIP2\_HUMAN Brain-specific angiogenesis inhibitor 1-associated protein 2  
OS=Homo sapiens GN=BAIP2 PE=1 SV=1

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DGYKTALTEERRRFCFLVEKQCAVAKNSAAYHSGKELLAQKLPLWQQACADPSKIPERA  
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GVTGPDGEDYSPWADRKAAPKSLSPQSQSKLSDSYSNTLPVRKSVTPKNSYATTENKT  
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TKMRGWFFFSYTRVLDSGSDRLHMSLQQGKSSTGNLLDKDDLAIPPPDYGAASRAFP  
QTASGFKQRPYSVAVPAFSQGLDDYGARMSRNPFQVQLKPTVTNDRCDLSAQGPEGRE  
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>sp|P35613|BASI\_HUMAN Basigin OS=Homo sapiens GN=BSG PE=1 SV=2

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RAPRVKVVRAQAVVLVEPGTVFTTVEDLGSKILLTCSLNDSTATEVTGHRWLKGGVVLKE  
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VCKSESVPVTDWAWYKITSDEKALMNGSESRRFFVSSSQGRSELHIENLNMEADPGQYR  
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>sp|Q8N1L9|BATF2\_HUMAN Basic leucine zipper transcriptional factor ATF-like 2 OS=Homo  
sapiens GN=BATF2 PE=1 SV=1

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LELFQTPGSCYPAQLSPGPQPHDPSLLQCPLPSLSLGPVVAEPPVQLSPSPLLFLASH  
TGSSLQGSSSKLSALQPSLTAQTAPPQPLEHPTRGKLGSSPDNPSSALGLARLQSREH  
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>sp|Q9UIF9|BAZ2A\_HUMAN Bromodomain adjacent to zinc finger domain protein 2A OS=Homo  
sapiens GN=BAZ2A PE=1 SV=4

MEMEANDHFNFTGLPPAPAAAGLKPSPSSGEGLYTNGSPMNFQQGKSLNGDVNVNGLST  
VSHTTTSGILNSAPHSSSTSHLHHPVAYDCLWNYSQYPSANPGSNLKDPPLLSQFSGGQ  
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>sp|Q8TAM1|BBS10\_HUMAN Bardet-Biedl syndrome 10 protein OS=Homo sapiens GN=BBS10 PE=1  
SV=2

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PVGGNFEILLHYLLNYAKKCHQSEETMVSMIIANALLGIPKVLKSKTGKYSFPHTYIR  
AVHALQTNQPLVSSQTGLESMGKYQLLTSVLQCLTKILTIDMVITVKRHPQKVHNQDSE  
DEL

>sp|Q8NFJ9|BBS1\_HUMAN Bardet-Biedl syndrome 1 protein OS=Homo sapiens GN=BBS1 PE=1 SV=1

MAAASSSDSDACGAESNEANSKWLDAHYDPMANIHTFSACLALADLHGDGEYKLVGDLG  
PGGQQPRLKVLKGPLVMTESPLPALPAAATFLMEQHEPRTPALALASGPCVYVYKNLRP  
YFKFSLPQLPPNPLEQDLWNQAKEDRIDPLTLKEMLESIRETAEPLSIQSLRFLQLELS  
EMEAFVNQHKSNSIKRQTVITMTTLKKNLADEDAVSCLVLGTENKELLVLDPEAFTILA  
KMSLPSVPVFLEVSGQFDVEFRLAAACRNGNIYILRRDSKHPKYCIELSAQPVGLIRVHK  
VLVVGSTQDSLHGFTHKGKKLWTVQMPAAILTMNLLEQHSRGLQAVMAGLANGEVRIYRD  
KALLNVIHTPDAVTSLCFGRYGREDNTLIMTTRGGGLIKILKRTAVFVEGGSEVGPPPA  
QAMKLNVPKRTRLVYDQTLREREAGTAMHRAFQTDLYLLRLRAARAYLQALESSLPLST  
TAREPLKLHAVVQGLGPTFKLTLHLQNTSTTRPVLGLLVCFLYNEALYSLPRAFFKVPLL  
VPGLNYPLETFVESLSNKGISDIKVLVLRREGQSAPLLSAHVNMPSGEGLAAA

>sp|Q9BXC9|BBS2\_HUMAN Bardet-Biedl syndrome 2 protein OS=Homo sapiens GN=BBS2 PE=1 SV=1

MLLPVFTLKL RHKISPRMVAIGRYDGT HPCLA AATQTGKVF IHNPHTRNQHV SASRVFQS  
PLESDVSLLNINQAVSCLTAGVLNPELG YDALLVGTQTNNLAYDVYNNSDLFYREVADGA  
NAIVLGTLDGISSPLAII GGNCALQG FNHEGSDLFWTVTGDNVNSLALCDFDGDGKKELL  
VGSEDFDIRVFKED EIVAEMTETEIVTSLCPMYGSRFGYALSNGTVGVYDKTSRYWRIKS  
KNHAMSIIHAFDLNSDGVNELITGWSNGKVDARS DRTGEVIFKDNFSSAIIAGVVEGDYRMD  
GHIQLICCSVDGEIRGYLPGTAE MRGNLMDTSAEQDLIRELSQKKQNLLLELRNYEENAK  
AELASPLNEADGHRGII PANTRLHTT LSVSLGNETQTAHTEL RISTSNDTIIRAVLIFAE  
GIFTGESHVVHPSIHNLS SSIPIVPPKDPVPDLHLKAFVGYRSTQFHVFESTRQLPR  
FSMYALTSLDPASEPISYVNFTIAERAQRVVWLGQNFLLPEDTHIQNAPFQVCFTSLRN  
GGHLHIKIKLSGEITINTDDIDLAGDIIQSMASFFAIEDLQVEADFPVYFEELRKVLVKV  
DEYHSVHQKLSADMADHSNLIR SLLVGAEDARLMRDMKTMKSRYMELYDLNRDLLNGYKI  
RCNNHTELLGNLKAVNQAIQRAGRLRVGKPKNQVITACRDAIRSNNINTLFKIMRVGTAS  
S

>sp|P50895|BCAM\_HUMAN Basal cell adhesion molecule OS=Homo sapiens GN=BCAM PE=1 SV=2

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSV PPLVEVMRGKSVILDCTPTGTHD  
HYMLEWFLTDRSGARPLASAEMQGS ELQVTMHDTRGRSPPYQLDSQGRLVLA EAQVGDE  
RDYVCVVRAGAAGTAEATARLNVFAKPEATEVSPNKG TLSVMEDSAQEIATCNSRNGNPA  
PKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLRLRKDDRDASFHCAAH  
YSLPEGRHGRD SPTFHLTLHYPT EHVQFWVGSPSTPAGWVREGDTVQLLCRGDGSPSPE  
YTLFRLQDEQE EVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAY  
LDPLELSEGVLSLPLNSSAVVNC SVHGLPTPALRWTKDSTPLGDGPMLSLS SITFDSNG  
TYVCEASLP TVPVL SRTQNFTLLVQGSPELKTAEIEPKADG SWREGDEVTLICSARGHPD  
PKLSWSQLGGSPA EPIPGRQG WSSSLTLKVTSALSRDGISCEASNPHGNKRHV FHFQTV  
SPQTSQAGVAVMAVAVSVGLLLL VVAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS  
EQPEQTGLLMGGASGGARGSGGFGDEC

>sp|Q9NTI2|AT8A2\_HUMAN Phospholipid-transporting ATPase IB OS=Homo sapiens GN=ATP8A2 PE=1 SV=2

MSRATSVGDQLEAPARTIYLNQPHLNKFRDNQISTAKYSVL TFLPRFLYEQIRRAANAFF  
LFIALQLQIPDVSP TGRYTTLVPLII ILTIAGIKEIVEDFKRHKADNAV NKKKTIVLRNG  
MWHTIMWKEVAVGDIVKV VNGYLPADVLLSSSEPQAMCYVETANLDGETNLKIRQGLS  
HTADMQTREVL MKLSGTIECEGPNRHL YDFTGNLNL DGKSLVALGPDQILLRGTQLRNTQ  
WVFGIVVYTGHD TKLMQNSTKAPLKRSNVEKVTNVQILVLF GILLVMALVSSAGALYWR

SHGEKNWYIKKMDTSDNFGYNLLTFIILYNNLIPISLLVTLEVVKYTQALFINWDTDMY  
YIGNDTPAMARTSNLNEELGQVKYLFSDKTGTLTCNIMNFKKCSIAGVTYGHFPELAREP  
SSDDFCRMPPPCSDSCDFDDPRLKNIEDRHPTAPCIQEFLTLLAVCHTVVPEKGDGDNII  
YQASSPDEAALVKGAKKLGFVFTARTPFSVIEAMGQEQTFGILNVLEFSSDRKMSVIV  
RTPSGRLRLYCKGADNVIFERLSKDSKYMEETLCHLEYFATEGLRTLCAVAYADLSENEYE  
EWLVYQEAESTILKDRAQRLEECYEIEKNLLLLGATAIEDRLQAGVPETIATLLKAEIK  
IWVLTGDKQETAINIGYSCRLVSQNMALILLKEDSLDTRAAITQHCTDLGNLLGKENDV  
ALIIDGHTLKYALSFEVRRSFLDLALSCKAVICCRVSPLQKSEIVDVVKRVKAITLAIG  
DGANDVGMIIQTAHVGVGISGNEGMQATNNSDYAIAQFSYLEKLLLVHGAWSYNRVTKCIL  
YCFYKNVVLYIIELWFAFVNGFSGQILFERWCIGLYNVIFTALPPFTLGIFERSCTQESM  
LRFPQLYKITQNGEGFNTKVFVGHCHINALVHSLILFWFPMKALEHDTVLTSGHATDYLTV  
GNIVYTYVVVTVCLKAGLETTAWTKFSLAVWGSMLTWLVFFGIYSTIWPTIPIAPDMRG  
QATMVLSSAHFWLGLFLVPTACLIEDVAWRAAKHTCKKTLLEEVQELETCSRVLGKAVLR  
DSNGKRLNERDLIKRLGRKTPPTLFRGSSLQQGVPHGYAFSQEEHGAVSQEEVIRAYDT  
TKKKSRRK

>sp|PODMR3|AT8OS\_HUMAN Putative protein ATXN8OS OS=Homo sapiens GN=ATXN8OS PE=5 SV=1  
MPCPGAPCCSLVATGSRVPFSGLKEEEEEEDGEDDEEEEEEGFFQKVLTPLLSWLLSRRLW  
LGPQCSKLPLPSCCRQPPPAGPPVEGDGWLKSFQSRRCFTSKSFRPEPDMLYAQKAKG  
WQLTQDSGGWEVQDQCTRIWSKENLLALNTHSRRQKGKRENKVCVSTWQKSRGDRITYSSM  
ATPSMTKILEGCMYRKLKC

>sp|O60423|AT8B3\_HUMAN Phospholipid-transporting ATPase IK OS=Homo sapiens GN=ATP8B3 PE=2  
SV=4

MGTGPAQTPRSTRAGPEPSPAPPGPGDTGDSVDVTQEGSGPAGIRGETVIRAGMGDSPGR  
GAPERRHKAQGRARKYEWREPGPTSMGSLGQREDLQDEDNRSAFTWKVQANNRAYNGQF  
KEKVILCWQRKKYKTNVIRTAKYNFYSFLPLNLYEQFHRVSNLFFLIILQSIPIDISTL  
PWFSLSTPMVCLLFIRATRDLVDDMRHKS DRAINNRPCQILMGKSFKQKKWQDLVGDV  
VCLRKDNIVPADMLLLASTEPSSLCYVETVDIDGETNLKFRQALMVTHKELATIKKMASF  
QGTVTCEAPNSRMHHFVGCLEWNDKKYSLDIGNLLRGCRIRNTDTCYGLVIYAGFDTKI  
MKNCGKIHLKRTKLDLLMNKL VVVFISVVLVCLVLAFGFGFSVKEFKDHHYYLSGVHGS  
SVAAESFFVFWFLILLSVTIPMSMFI LSEFIYLGNSVFI DWDVQMYYPQDVPAKARST  
SLNDHLGQVEYIFSDKTGTLTQNILTFNKCCISGRVYGPDEATTRPENPYLWNKFADG  
KLLFHNAALLHLVRTNGDEAVREFWRLLAICHTVMVRESPRERPDQLLYQAASPDGALV  
TAARNFGYVFLSRTQDVTIMELGEERVYQVLAIMDFNSTRKMSVLVRKPEGAICLYTK  
GADTVIFERLHRRGAMEFATEEALAAFAQETLRTLCLAYREVAEDIYEDWQQRHQEASLL  
LQNRALQQLLGATAIEDRLQDGVPETIKCLKKSNIKIWVLTGDKQETAVNIGFACELL  
SENMLILEEKEISRILETYWENSNNLLTRESLSQVKLALVINGDFLDKLLVSLRKEPRAL  
AQNVNMDAWEQELGQSRDFLYARRLSLLCRRFGLPLAAPPQDSRARRSSEVLQERAFV  
DLASKCQAVICCRVTPKQKALIVALVKYHQVVTLAIGDGANDINMIKTADVGVGLAGQE  
GMQAVQNSDFVLGQFCFLQRLLLVHGRWSYVRICKFLRYFFYKSMASMMVQVWFACYNGF  
TGQPLYEGWFLALFNLLYSTLPVLYIGLFEQDVSAEQSLEKPELYVVGQKDEL FNYWVVF  
QAIAHGVTTSLVNFFMTLWISRDTAGPASFS DHQSFVAVVALSCLLSITMEVILIIKYWT  
ALCVATILLSLGFYAIMTTTTQSFWLFVRVSPPTFPFLYADLSVMSSPSILLVLLSVSIN  
TFPVLALRVIFPALKELRAKEEVEEGPSEEIFTMEPLPHVHRESRARRSSYAFSHREGY  
ANLITQGTILRRGPGVSSDIASESLDPSDEEAASSPKESQ

>sp|Q6PL18|ATAD2\_HUMAN ATPase family AAA domain-containing protein 2 OS=Homo sapiens  
GN=ATAD2 PE=1 SV=1

MVVLRSSELHNSAASATGSLDLSDFLSLEHIGRRRLRSAGAAQKKPAATTAKAGDGS  
SVKEVETYHRTRALRSRLRKDAQNSSDSSFENVEITEQLANGRHFTQLARQQADKKKEE  
HREDKVIPVTRSLRARNIVQSTEHLHEDNGDVEVRRSCRIRSRYSQVNSMLFDKLITNT  
AEAVLQKMDDMKMRQRMRELEDLGVFNTEESNLNMYTRGKQKDIQRTDEETDNQEG  
SVESSEEGEDQEHEDDGEDEDEDDDDDDDDDDDEDEDEDEDEGEENQKRYYLQRK  
ATVYYQAPLEKPRHQKPNIFYSGPASPAPRYRLSSAGPRSPYCKRMNRRRHAIHSSDS  
TSSSSSEDEQHFERRRKRNRNRAINRCLPLNFRKDELKGIYKDRMKIGASLADVDPMLD  
SSVRFDSVGGLSNHIAALKEMVVFPLLYPEVFEEKFKIQPPRGCLFYGPPGTGKTLVARAL  
ANESQGDKRVAFFMRKGADCLSKWVGESERQLRLLFDQAYQMRPSIIFFDEIDGLAPVR  
SSRQDQIHSSIVSTLLALMDGLDSRGEIVVIGATNRLDSIDPALRRPGRFDREFLSLPD  
KEARKEILKIHTRDWNPKLDTFLEELAENCVGYCGADIKSICAEALCALRRRYPQIYT  
TSEKLQLDLSSINISAKDFEVAMQKMIPASQRAVTSPGQALSTVVKPLLQNTVDKILEAL  
QRVFPHAEFRTNKTLDSDISCPLESIDLAYSDDDVPSVYENGLSQKSSHAKDNFNFLHL  
NRNACYQPMSFRPRILIVGEPGFGQGSHLAPAVIHALEKFTVYTLDIPVLFVSTTSPEE  
TCAQVIREAKRTAPSIYVYPHIHVWWEIVGPTLKATFTTLLQNIPSFAPVLLLATSDKPH  
SALPEEVQELFIRDYGEIFNVQLPDKEERTKFFEDLILKQAAKPPISKKKAVLQALEVLP  
VAPPEPRSLTAEVVKRLEEQEEDTFRELRIFLRNVTHRLAIDKRFRVFTKVPDPDEVDP  
YVTVIKQPMDLSSVISKIDLHKYLTVKDYLRDIDLICNALEYNPDRDPGDLIRHRACA  
LRDTAYAIKEELEDDEFELCEEIQESRKKRGCSKYAPSYHVMKQNSTLVGDKRSD  
PEQNEKLKTPSTPVACSTPAQLKRKIRKKSNNWYLGTIKKRRKISQAKDSSQNAIDHKIES  
DTEETQDTSVDHNETGNTGESSVEENEKQNASSEKLELRNNSNTCNIENELEDSRKTTA  
CTELRDKIACNGDASSQIIHISDENEGKEMCVLRMTRARRSQVEQQQLITVEKALAILS  
QPTPSLVVDHERLKNLLKTVVKKSQNYNIFQLENLYAVISQCIYRHRKDHDKTSLIQKME  
QEVENFSCSR

>sp|Q86WG3|ATCAY\_HUMAN Caytaxin OS=Homo sapiens GN=ATCAY PE=1 SV=2

MGTTTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPPNTLNFNGAHRKR  
KTLVAPEINISLDQSEGSLLSDDFLDTPDDLDINVDDIETPDETDSLEFLGNGNELEWED  
DTPVATAKNMPGDSADLFGDGTEDGSAANGRLWRTVIGEQEHRIDLHMIRPYMKVVTH  
GGYGEGLNAIIVFAACFLPDSSLPDYHYIMENFLYVISSLELLVAEDYMIVYLNATP  
RRRMPGIGWLKKCYQMIDRRLRKNLKSIIIVHPSWFIRTVLAISRPFISVKFINKIQYVH  
SLEDLEQLIPMEHVQIPDCVLQYEEERLKARRESARPQPEFVLPSEEKPEVAPVENRSA  
LVSEDQETSMS

>sp|Q5T2N8|ATD3C\_HUMAN ATPase family AAA domain-containing protein 3C OS=Homo sapiens  
GN=ATAD3C PE=2 SV=2

MSKDALNLAQMGEQTLQLEQQSKLKQLVNEDLRKQEEVQKHHQTFLESIRAAGTLFGEG  
FRAVFTDRDKVTATVAGLTLLAVGVYSAKNATAVTGRYIEARLGKPSLVRETSRITVLEA  
LRHPIQQVSRLLSRPQDVLEGVVLSPSLEARVRDIAIMTRNIKKNRGLYRHILLYGPPG  
TGKTLFAKKLALHSGMDYAIMTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADA  
FLRKRATEKISEDRLATLNAFLYRTGQHSNKFMLILASCHPEQFDWAINACIDVMVHFDL  
PGQEERARLVMYLNEYVLKPATEGKRRLKLAQFDYGRKCLEIARLTEGMSCKIAQLAV  
SWQATAYASKDGLTEAMMDACVQDFVQQHQQMMRWLKGPERPGPEDEQPSS

>sp|P00846|ATP6\_HUMAN ATP synthase subunit a OS=Homo sapiens GN=MT-ATP6 PE=1 SV=1

MNENLFASFIAPTILGLPAAVLIILFPPLL IPTSKYLINNRLITTQQWLIKLT SKQMMTM  
HNTKGRTWSMLVSLIIFIATTNLLGLLPHSFTPTTQLSMNLAMAIPLWAGTVIMGFRSK  
IKNALAHFLPQGTPTPLIPMLVIIETISLLIQPMALAVRLTANITAGHLLMHLIGSATLA  
MSTINLPSTLIIFTILILLTILEIAVALIQAYVFTLLVSLYLHDNT

>sp|Q5VV63|ATRNL1\_HUMAN Attractin-like protein 1 OS=Homo sapiens GN=ATRNL1 PE=2 SV=2

METGGRARTGTPQPAAPGVWRARPAGGGGGGASSWLLDGNWLLCYGFLYLALYAQVSQS  
KPCERTGSCFSGRCVNSTCLCDPGWVGDCQCQHCGRFKLTEPSGYLTDGPINYYKTKCT  
WLIIEGYPNAVLRRLRFNHFATECSWDHMYVVDGDSIYAPLIAVLSGLIVPEIRGNETVPEV  
VTTSGYALLHFFSDAAYNL TGFNIFYSINSCPNNCSGHGKCTTSVSVPSQVYCECDKYWK  
GEACDIPYCKANCGSPDHGYCDLTGEKLCVCNDSWQGPDCSLNVPSTESYWILPNVKPFS  
PSVGRASHKAVLHGKFMWVIGGYTFNYSSFQMVLYNLESIWNVGTSPSRGPLQRYGHSL  
ALYQENIFMYGGRIETNDGNVTDELWVFNIHSQSWSTKTPTVLGHGQQYAVEGHS AHIME  
LDSRDVMMIIIFGYSAIYGYTSSIQEYHISSNTWLPETKGAIVQGGYGHTSVYDEITKS  
IYVHGGYKALPGNKYGLVDDLYKYEVTNKTWTILKESGFARYLHSAVLINGAMLI FGGNT  
HNDTSLSNGAKCFSADFLAYDIACDEWKILPKPNLHRDVNRFGHSAVVINGSMYIFGGFS  
SVLLNDILVYKPPNCKAFRDEELCKNAGPGIKCVWNKNHCESWESGNTNNILRAKCPPKT  
AASDDRCYRYADCASCTANTNGCQWCDDKKCISANSNCMSVKNYTKCHVRNEQICNKLT  
SCKSCSLNLCQWDQRQCEQALPAHLCEGWSHIGDACLRNVSSRENYDNAKLYCYNLS  
GNLASLTTSKEVEFVLDEIQKYTQQKVSPWVGLRKINISYGWEDMSPFTNTTLQWLPGE  
PNDSGFCAYLERAAGVLANPCTSMANGLVCEKPVVSPNQARPCKKPCSLRTSCSNCT  
SNGMECMWCSSTKRCVDSNAYIISFPYGGCLEWQTATCSPQNCGLRTCGQCLEQPGCGW  
CNDPSNTGRGHCI EGSSRGPMKLIGMHSEMVLDTNLCPEKKNYEWFSFIQCPACQCNGHS  
TCINNNVCEQCKNLTGKQCQDCMPGYGDP TNGGQCTACTCSGHANICHLHTGKCFCTT  
KGIGKGDQCQLCDSENRYVGNPLRGTCYYSLLIDYQFTFSLQEDDRHHTAINFIANPEQS  
NKNLDISINASNFNITWSVGSTAGTISGEETSIVSKNNIKEYRDSFSYEKFNFRSNP  
NITFYVYVSNFSWPIKIQIAFSQHNTIMDLVQFFVTFSCFLSLLLVAADVWKIKQTCWA  
SRRREQLLRERQQMASRPFASVDVALEVGAEQTEFLRGPLEGAPKPIAIEPCAGNRAAVL  
TVFLCLPRGSSGAPPPGQSLAIA SALIDISQQKASDSKDKTSGVRNRKHLSTRQGTCV

>sp|Q9H7T9|AUNIP\_HUMAN Aurora kinase A and ninein-interacting protein OS=Homo sapiens  
GN=AUNIP PE=1 SV=1

MRRTGPEEEACGVWLDAAALKRRKVQTHLIKPGTKMLTLLPGERKANIYFTQRRAPSTGI  
HQRSIASFFTLQPGKTNGSDQKSVSSHTESQINKESKKNATQLDHLIPGLAHDCMASPLA  
TSTTADIQEAGLSPQSLQTSGHHRMKT PPFSTELSLQPDTPDCAGDSHTPLAFSFTEDLE  
SSCLDRKEEKGSARKWEWLHESKKNYQSM EKHTKLPGDKCCQPLGKTKLERKVS AKEN  
RQAPVLLQTYRESWNGENIESVKQSRSPSVFSDNEKNDKDSWSQLFTEDSQGQRVIAH  
NTRAPFQDVTNNWNWDLGFPNSPWAQCQEDGPTQNLKPDLLFTQDSEGNQVIRHQF

>sp|Q5T686|AVPI1\_HUMAN Arginine vasopressin-induced protein 1 OS=Homo sapiens GN=AVPI1  
PE=1 SV=3

MGTPASVVSEPPPWQAPIEARGRKQASANIFQDAELLQIQALFQRSGDQLAEERAQIIWE  
CAGDHRVAEALKRLRRKRPPRQKPLGHSLLHCSRLRILEPHSALANPQSATETASSEQYL  
HSRKK SARIRNRKSGPTSYLHQIRH

>sp|Q07817|B2CL1\_HUMAN Bcl-2-like protein 1 OS=Homo sapiens GN=BCL2L1 PE=1 SV=1

MSQSNRELVDVFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLA  
DSPAVNGATGHSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAY



QSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAMATYLNHLEP  
WIQENGWDTFVELYGNNAAESRKGQERFNWFLTGMTVAGVVLLGSLFSRK

>sp|Q16548|B2LA1\_HUMAN Bcl-2-related protein A1 OS=Homo sapiens GN=BCL2A1 PE=1 SV=1  
MTDCEFGYIYRLAQDYLCVLQIPQPGSGSKTSRVLQNVAFSVQKEVEKNLKSCLDNVN  
VVSVDTARTLFNQVMEKEFEDGIINWGRIVTIFAFEGILIKLLRQQIAPDVDTYKEISY  
FVAEFIMNNTGEWIRQNGGWENGFWKKFEPKSGWMTFLEVTGKICEMLSLLKQYC

>sp|P61769|B2MG\_HUMAN Beta-2-microglobulin OS=Homo sapiens GN=B2M PE=1 SV=1  
MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLL  
KNGERIEKVEHSDLSFSKDSFYLLYYTEFTPTTEKDEYACRVNHVTLSPKIVKWDRDM

>sp|P04920|B3A2\_HUMAN Anion exchange protein 2 OS=Homo sapiens GN=SLC4A2 PE=1 SV=4  
MSSAPRRPAKGADSFCTPEPESLPGTGPFPQEDELHRTLGVVERFEEILQEAGSRGGE  
EPGRSYGEEDFEYHRQSSHHIHHPLSTHLPDARRRKTQGPGRKPRRRPGASPTGETPT  
IEEGEEDEDEASEAEGARALTQPSPVSTPSSVQFFLQEDDSADRKAERTSPSSPAPLPHQ  
EATPRASKGAQAGTVEEAEEAVAVASGTAGGDDGGASGRPLPKAQPGRSYNLQERRR  
IGSMTGAEQALLPRVPTDEIEAQTATADLDLMKSHRFEDVPGVRRHLVRKNAKGSTQSG  
REGREPPTPRARPRAPHKPHFVVELNELLLDKNQEPQWRETARWIKFEEDVEEETERW  
GKPHVASLSFRSLELRRTLAHGAVLLDLQQTLPGAHQVVEQMVISDQIKAEDRANVL  
RALLKHSHPSDEKDFSFRNISAGSLGSLGHGHHGGAESDPHVTEPLMGGVPETRLEV  
ERERELPPPAPPAGITRSKSKHELKLEKIPENAEATVVLVGCVEFLSRPTMAFVRLREA  
VELDAVLEVPPVPRFLFLLGPSSANMDYHEIGRSISTLMSDKQFHEAAYLADEREDLLT  
AINAFDCSVVLPPEVQGEELLRSVAHFQRQMLKKREEQGRLLPTGAGLEPKSAQDKAL  
LQMVEAAGAAEDDPLRRTGRPFGLIRDVRRRYPHYLSDFRDALDPQCLAAVIFIYFAAL  
SPAITFGGLLGEKTQDLIGVSELIMSTALQGVVFCLLGAQPLLIVIGFSGPLLVFEEAFFS  
FCSSNHLEYLVGRVWIGFWLVFLALLMVALEGSFLVRFVSRFTQEIFAFLISLIFIYETF  
YKLVKIFQEHPLHGCSASNSSEVDGGENMTWAGARPTLPGNRSLAGQSGQGKPRGQPNT  
ALLSLVLMAGTFFIAFFLRKFKNRFFPGRIRRVIGDFGVPIAILIMVLVDYSIEDTYTQ  
KLSVPSGFSVTAPEKRGWVINPLGEKSPFPVMMVASLLPAILVFILIFMETQITTLIIS  
KKERMLQKGS GFHLDLLIVAMGGICALFGLPWLAATVRSVTHANALTVMSKAVAPGDK  
PKIQEVKEQRTGLLVALLVGLSIVIGDLLRQIPLAVLFGIFLYMGVTSLNGIQFYERLH  
LLLMPKHHPDVTYVKKVRTLRMHLFTALQLLCLALLWAVMSTAASLAFPFILITVPLR  
MVVLTRIFTDREMKCLDANAEPPVDEREGVDEYNEMPMPV

>sp|Q9C0J1|B3GN4\_HUMAN N-acetylactosaminide beta-1,3-N-acetylglucosaminyltransferase 4  
OS=Homo sapiens GN=B3GNT4 PE=1 SV=1  
MLPPQPSAAHQGRGGRSGLLPKGPAMLCRLCWLVSYS LAVLLGCLLFLRKAAPAGDPT  
AHQPFWAPPTPRHSRCPNHTVSSASLSLPSRHRLFLTYRHCRNFSILLEPSGCSKDTFL  
LLAIKSPGHVERRAAIRSTWGRVGGWARGRLKLVFLLGVAGSAPPAQLLAYESREFDD  
ILQWDFTEDFNLTLEHLQRWVVAACPQAHFMLKGDDDVVHVPNVLEFLDGWDPAQD  
LLVGDVIRQALPNRNTKVKYFIPPSMYRATHYPPYAGGGGYMSRATVRRLQAIMEDAEL  
FPIDDFVGMCLRRLGLSPMHAGFKTFGIRRPLDPLDCLYRGLLVHRLSPLEMWTMW  
ALVTDEGLKCAAGPIQR

>sp|Q7Z7M8|B3GN8\_HUMAN UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8  
OS=Homo sapiens GN=B3GNT8 PE=1 SV=1  
MRCPKCLLCLSALLTLLGLKVYIEWTSESRLSKAYPSRGTTPPSPTPANPEPTLPANLST  
RLGQTIPLPFAYWNQQQWRLGSLPSGDSTETGGCQAWGAAAATEIPDFASYPKDLRRFLL

SAACRSFPQWLPGGGGSQVSSCSDTDVPYLLLAVKSEPGRFAERQAVRETWGSPAPGIRL  
LFLLGSPVGEAGPDLDSLVAWESRRYSDDLWDFLDVPFNQTLKDLLLAWLGRHCPTVS  
FVLRAQDDAFVHTPALLAHLRALPPASARSLYLGEVFTQAMPLRKPGGPFYVPESFFEGG  
YPAYASGGGYVIAGRLAPWLLRAAARVAPFPFEDVYTGLCIRALGLVPQAHPGFLTAWPA  
DRTADHCAFRNLLLVRPLGPQASIRLWKQLQDPRLQC

>sp|Q8NHY0|B4GN2\_HUMAN Beta-1,4 N-acetylgalactosaminyltransferase 2 OS=Homo sapiens  
GN=B4GALNT2 PE=1 SV=2

MGSAGFSVGKFHVEVASRGRECVSGTPECGNRLGSAGFGALCLELRGADPAWGPFAAHGR  
SRRQGSRFLWLLKILVILVLGIVGFMFGSMFLQAVFSSPKPELSPAPGVQKLKLLPEE  
RLRNLSYDGIWLPKNQCKCEANKEQGGYNFQDAYGQSDLPVKARRQAEFEHFQRREG  
LPRPLPLLVPNLPGYPVHGVEVMPLHTVPIPLGLQFEGPDAPVYEVTLTASLGTNLTLA  
DVPDSVVQGRGQQLIISTDRKLLKFILQHVTYTSTGYQHKKVDIVSLESRSSVAKFPV  
TIRHPVIPKLYDPGPERKLRNLVTIATKTLRPHKLMIMLRSIREYYPDLTVIVADDSQK  
PLEIKDNHVEYYTMPFGKGFAGRNLAISQVTTYVLWDDDFLNEETKIEVLVDVLEK  
TELDVVGGSVLGNVFQFKLLLEQSENGACLHKRMGFFQPLDGFPSCVTSGVVNFFLAHT  
ERLQRVGFDPRQLQRAHSEFFIDGLGTLLVGCPEVIIGHQSRSPVVDSELAALEKTYNT  
YRSNTLTRVQFKLALHYFKNHLQCAA

>sp|Q76KP1|B4GN4\_HUMAN N-acetyl-beta-glucosaminyl-glycoprotein 4-beta-N-  
acetylgalactosaminyltransferase 1 OS=Homo sapiens GN=B4GALNT4 PE=1 SV=1

MPRLPVKKIRKQMKLLLLLLLLSCAAWLTYYHLGLVRQGRALRQLGYGRDGEKLTSETD  
GRGVHAAPSTQRAEDSSSESREEEQAEGRDLMLFPGGAGRLPLNFHTQTPPWREEYKGG  
VNLHVFEDWCGGAVGHLRRNLHFPLFPHTRTTVKKLAVSPKWKNYGLRIFGFIHPARDGD  
VQFSVASDDNSEFWLSLDESPAAAQLVAFVGKTGSEWTAPGEFTKFSSQVSKPRRLMASR  
RYYFELLHKQDDRGSDHVEVGWRAFLPGLKFEVISSAHISLYTDESALKMDHVAHVQPSP  
ASHVGRPPQEETSADMLRPDPDRTFFLTPRMESSLENVLEPCAYPTYVVKDFPIARY  
QGLQFVYLSFVYPNDYTRLTHMETDNKCFYRESPLYLERFGFYKYMMDKEEGDEDEEDE  
VQRRAFLLNPDFFLDEDEGELLDSLEPTEAAPRSGPQSPAPAAPQPGATLAPPTPP  
RPRDGGTPRHSRALSWAARAARPLPLFLGRAPPPRPAVEQPPPKVYVTRVRPGQRASRA  
PAPRAPWPPFGVFLHPRPLPRVQLRAPPPRPHGRRTGGPQATQPRPPARAQATQGGR  
EGQARTLGPAAPTVDNLSSEARPVTSFSLSQVSGPQLPGEGEDEDEGDDGAPGDEAA  
SEDEEAAAGPALGRWREDAIDWQRTFSVGAVDFELLRSWDLRCNVSGNLQLPEAEAVD  
VTAQYMERLNRHGGRFALLRIVNVEKRRDSARGSRFLLELELQERGGGRLRLSEYVFLR  
LPGARVGADGESPEPAPAASVRPDGRPELCPRLRLAWRQDVMVHFIVPVKNQARWVAQF  
LADMAALHARTGDSRFSVVLVDFESEDMDVERALRAARLPRYQYLRTGNFERSAGLQAG  
VDAVEDASSIVFLCDLHIHFPPNILDGIRKHCVEGRLAFAPVVMRLSCGSSPRDPHGYWE  
VNGFGLFGIYKSDFRVGGMNTEEFRDQWGGEDWELLDRLVQAGLEVERLRLRNFYHHYH  
SKRGMWSVRSRKGSRGTAS

>sp|P15291|B4GT1\_HUMAN Beta-1,4-galactosyltransferase 1 OS=Homo sapiens GN=B4GALT1 PE=1  
SV=5

MRLREPLLSGSAAMPASLQACRLLVAVCALHLGVTLVYYLAGRDLRLPQLVGVSTPL  
QGGNSNAAAIGSSGELRTGGARPPPPLGASSQPRPGDSSPVVDSGPGPASNLTSVPVP  
HTTALSIPACPEESPLLVGPMLEFNMPVDLELVAKQNPVNMGGRYAPRDCVSPHKVAI  
IIPFRNRQEHLKYWLYLHPVLQRQQLDYGIYVINQAGDTIFNRAKLLNVGFQEALKDYD  
YTCFVFSVDLIPMNDHNAYRCFSQPRHISVAMDKFGFSLPYVQYFGGVSALSQQFLTI

NGFPNNYWGWGEDDDIFNRLVFRGMSISRPNAVVGRCRMIRHSRDKKNEPNPQRFDRIA  
HTKETMLSDGLNSLTYQVLVDVQRYPLYTQITVDIGTPS

>sp|060512|B4GT3\_HUMAN Beta-1,4-galactosyltransferase 3 OS=Homo sapiens GN=B4GALT3 PE=1  
SV=2

MLRRLLEPCTLALLVGSQALVMMYLSLGGFRSLSALFGRDQGPTFDYSHPRDVYSNLSH  
LPGAPGGPPAPQGLPYCPERSPLLVGPSVSFSFVPSLAEIVERNPRVEPGGRYPAGCE  
PRSRTAIIVPHRAREHHLRLLLYLHPFLQRQQLAYGIYVIHQAGNGTFNRAKLLNVGVR  
EALRDEEWDCLFLHDVDLLPENDHNLYVCDPRGPRHVAVAMNKGYSLPYPQYFGGSAL  
TPDQYLKMNGFPNEYWGWGEDDDIATRVLAGMKISRPPTSVGHYKMKVHRGDKGNEEN  
PHRFDLLVRTQNSWTQDGMNSLTYQLLARELGPLYTNITADIGTDPRGPRAPSGPRYPPG  
SSQAFRQEMLQRRPPARPGPLSTANHTALRGSH

>sp|060513|B4GT4\_HUMAN Beta-1,4-galactosyltransferase 4 OS=Homo sapiens GN=B4GALT4 PE=1  
SV=1

MGFNLTFLHSYKFRLLLLLTLCLTVVGWATSNYFVGAIQEIPKAKEFMANFHKTLLLGKG  
KTLTNEASTKKVELDNCPSPYLRGQSKLIFKPDLTLEEVQAENPKVSRGRYPQECKA  
LQRVAILVPHRNREKHLMYLLEHLHPFLQRQQLDYGIYVIHQAEKGKFNRAKLLNVGYLE  
ALKEENWDCFIHFDVDLPENDFNLYKCEEHPKHLVVGGRNSTGYRLRYSGYFGVTALSR  
EQFFKVNFGSNNYWGWGEDDDLRLRVELQRMKISRPLPEVGKYTMVFHTRDKGNEVNAE  
RMKLLHQVSRVWRTDGLSSCSYKLVSEHNPLYINITVDFWFGA

>sp|Q9UBX8|B4GT6\_HUMAN Beta-1,4-galactosyltransferase 6 OS=Homo sapiens GN=B4GALT6 PE=1  
SV=1

MSVLRRMMRVSNRSLAFIFFFSLSSSCLYFIYVAPGIANITYLFMVQARGIMLRENVKTI  
GHMIRLYTNKNSTLNGTDYPEGNSSDYLVQTTTYLPENFTYSPYLPCEKLPYMRGFLN  
VNVSEVSFDEIHQLFSKDLIEPGGHWPKDCKPRWKVAVLIPFRNRHEHLPIFFLHLIP  
MLQKQRLEFAFYVIEQTGTQPFRNAMLFNVGFKAMKDSVWDCVIFHDVDHLPENDRNYY  
GCGEMPRHFAAKLDKMYIILPYKEFFGGVSGLTVEQFRKINGFPNAFWGWGEDDDLWNR  
VHYAGYNVTRPEGDLGKYKSIPIHHHRGEVQFLGRYKLLRYSKERQYIDGLNNLIYRPKIL  
VDRLYTNISVNLMPELAPIEDY

>sp|Q9UPM9|B9D1\_HUMAN B9 domain-containing protein 1 OS=Homo sapiens GN=B9D1 PE=2 SV=1

MATASPSVFLLMVNGQVESAQFPEYDDLCKYCFVYGQDWAPTAGLEEGISQITSKSQDV  
RQALVWNFPIDVTFKSTNPYGWPQIVLSVYGPDVFGNDVVRGYGAVHVPFSPGRHKRTIP  
MFVPESTSKLQKFTSWFMGRRPEYTDPKVVAQGEQREVTRVRSQGFVTLLENVVTKDMRK  
LGYDTGPSDTQGVLGPSPQSFQ

>sp|Q8WXS3|BAALC\_HUMAN Brain and acute leukemia cytoplasmic protein OS=Homo sapiens  
GN=BAALC PE=2 SV=3

MCGGSRADAIEPRYYESWTRETESTWLTYTDSAPPSAAAPDSGPEAGGLHSVLEAEKS  
KIKAPTDSVSDEGLFSASKMAPLAVFSHGLEDGLPSNGVPRSTAPGGIPNPEKKTNCET  
QCPNPQSLSSGPLTQKQNGLTTEAKRDAKMPAKEVTINVTDSIQQMDRSRRITKNCVN

>sp|Q8WZ19|BACD1\_HUMAN BTB/POZ domain-containing adapter for CUL3-mediated RhoA  
degradation protein 1 OS=Homo sapiens GN=KCTD13 PE=1 SV=1

MSAEASGPAAAAAPSLEAPKPSGLEPGPAAYGLKPLTPNSKYVKLVGGSLHYTTLRLTLT  
GQDTMLKAMFSGRVEVLTDAGGWVLIIDRSGRHFGTILNYLRDGSVPLPESTRELGELLGE  
ARYYLQGLIEDCQLALQKRETLSPCLIPMVTSPREEQQLLASTSKPVVKLLHNRSNN  
KYSYTSTSDNLLKNIELFDKLALRFHGRLLFLKDVLDGEICCSFYGGQRKIAEVCCTS

IVYATEKKQTKVEFPEARIFEETLNILIIYETPRGPDALLEATGGAAGAGGAGRGEDEEN  
REHRVRRRIHVRRHITHDERPHGQQIVFKD

>sp|Q9H3F6|BACD3\_HUMAN BTB/POZ domain-containing adapter for CUL3-mediated RhoA  
degradation protein 3 OS=Homo sapiens GN=KCTD10 PE=1 SV=1

MEEMSGESVSVSSAVPAAATRTTSFKGTSPSSKYVKLVGGALYYTTMQTLTKQDTMLKAM  
FSGRMEVLTDSEGWILIDRCGKHFGTILNYLRDGAVPLPESRREIEELLAEAKYYLVQGL  
VEECQAALQNKDTYEPFCKVPVITSSKEEQKLIATSNKPAVKLLYNRSNNKYSYTSNSDD  
NMLKNIELFDKLSLRFNGRVLFIKDVIIGDEICCSFYGGGRKIAEVCCTSIVYATEKKQT  
KVEFPEARIIYEETLNILLYEAQDGRGPDNALLEATGGAAGRSHHLEDEERERIERVRRRI  
HIKRPDDRAHLHQ

>sp|Q9BYV9|BACH2\_HUMAN Transcription regulator protein BACH2 OS=Homo sapiens GN=BACH2  
PE=1 SV=1

MSVDEKPDSPMYVVESTVHCTNILLGLNDQRKKDILCDVTLIVERKEFRAHRAVLAACSE  
YFWQALVGQTKNDLVVSLPEEVTARGFGPLLQFAYTAKLLSRENIREVIRCAEFLRMHN  
LEDSCFSFLQTQLLNSDGLFVCRKDAACQRPHEDCENSAGEEEDDEEETMDSETAKMAC  
PRDQMLPEPISFEAAAIPVAEKEEALLPEPDVPTDTKESSEKDALTQYPRYKKYQLACTK  
NVYNASSHSTSGFASTFREDNSSSLKPGLARGQIKSEPPSENEEESITLCLSGDEPDA  
KDRAGDVEMDRKQPSAPTPTAPAGAACLERSRSVASPCLRSLSITKSVELSGLPSTS  
QQHFARSPACPFDKGITQDGLKTDYTPFTGNYGQPHVGQKEVSNFTMGSPLRGPGLEALC  
KQEGELDRRSVIFSSSACDQVSTSVHSYSGVSSLDKDLSEPVPKGLWVGAGQSLPSSQAY  
SHGGLMADHLPGRMRPNTSCVPVVKPRSPPLETRTRTSSSCSSSYAEDGSGGSPCSL  
PLCEFSSSPCSQGARFLATEHQEPGLMGDMYNQVRPQIKCEQSYGTNSSDESGSFSEAD  
SESCPVQDRGQEVKLPFPVDQITDLPRNDFQMMIKMHKLTSEQLEFIHDVRRRSKNRIAA  
QRCRKRKLDICIQNLECEIRKLVCEKEKLLSERNLKACMGELLDNFSCLSQEVCARDIQSP  
EQIQALHRYCPVLRPMDLPTASSINPAPLGAEQNIAASQCAVGENVPCCLEPGAAPP  
WAPSNTSENCTSGRRLEGTDPGTFSERGPPLEPRSQTVTVDFCQEMTDKCTTDEQPRKDY  
T

>sp|Q13145|BAMBI\_HUMAN BMP and activin membrane-bound inhibitor homolog OS=Homo sapiens  
GN=BAMBI PE=1 SV=1

MDRHSSYIFIWLQLELCAMAVLLTKGEIRCYCDAAHCVATGYMCKSELSACFSRLLDPQN  
SNSPLTHGCLDSLASTTDICQAKQARNHSGTTIPTLECCHEDMCNYRGLHVDLSPPRGEA  
SGQGGRYQHDGSRNLITKVQELTSSKELWFRAAVIAVPIAGGLILVLLIMLALRMLRSEN  
KRLQDQRQMLSRHYSFHGHHSKKGQVAKLDLECMVPVSGHENCCLTCDKMRQADLSND  
KILSLVHWGMYSGHGKLEFV

>sp|Q8IXM2|BAP18\_HUMAN Chromatin complexes subunit BAP18 OS=Homo sapiens GN=BAP18 PE=1  
SV=1

MTSASTKVGEIFSAAGAAFTKLGELTMQLHPVADSSPAGAKWTETEIEMLRAAVKRFGDD  
LNHISCVIKERTVAQIKATVVRKVYEDSGIPLPAESPKKGPKKVASGLSPPPAAPPSS  
SSVPEAGGPPIKKQKADVTLSALNDSANDSDVVDIEGLGETPPAKKLNFDQA

>sp|Q5TC12|ATP1F1\_HUMAN ATP synthase mitochondrial F1 complex assembly factor 1 OS=Homo  
sapiens GN=ATPAF1 PE=1 SV=1

MAAVVVAAGGAGPAVLQVAGLYRGLCAVRSRALGLGLVSPAQLRVFPVRPGSGRPEGGA  
DSSGVGAELQANPFYDRYDKIQLLRSDPAAFESRLEKRSEFRKQPVGHSRQGDFIK  
CVEQKTDALGKQSVNRGFTKDKTLSSIFNIEMVKEKTAEEIKQIWQQYFAAKDTVYAVIP

AEKFDLIWNRAQSCPTFLCALPRREGYEFFVGQWTGTELHFTALINIQTRGEAAASQLIL  
YHYPELKEEKGI VLM TAEMDSTFLNVAEAQCIANQVQLFYATDRKETYGLVETFNLRPNE  
FKYMSVIAELEQSGLGAELKCAQNQNT

>sp|Q9Y679|AUP1\_HUMAN Ancient ubiquitous protein 1 OS=Homo sapiens GN=AUP1 PE=1 SV=1

MELPSGPGPERLFD SHRLPGDCFLLLVLLLYAPVGFCLLVLRFLGLIHVFLVSCALPDSV  
LRRFVVRTMCAVLGLVARQEDSGLRDHSVRVLISNHVTPFDHNIVNLLTTCSTVSESEAE  
SATGRFPGAQLKAPLSPLAFRMEDEALPLTPILYPTCQFFFFIFLNIFLLAFSSPGSQP  
LLNSPPSFVCWSRGMEMNGRGELVESLKRFCASTRLPPTPLLLFPEEEATNGREGLLRF  
SSWPFSIQDVVQPLTLQVQRPLVSVTVSDASVWSELLWSLFVPFTVYQVRWLRPVHRQLG  
EANE EFALRVQQLVAKELGQTGTRLTPADKAEHMKRQRHPRLRPQSAQSSFPSPGSPD  
VQLATLAQRVKEVLPHVPLGV IQRD LAKTGCVDLTITNLEGA VAFMPEDITKGTQSLPT  
ASASKFPSSGPVTPQTALTFAKSSWARQESLQERKQALYAYARRRFTERRAQEAD

>sp|Q9HB09|B2L12\_HUMAN Bcl-2-like protein 12 OS=Homo sapiens GN=BCL2L12 PE=1 SV=1

MGRPAGLFPPCLPFLGFRPEACWERHMQIERAPSVPPFLRWAGYRPGPVRRRGKVELIKF  
VRVQWRRPQVEWRRRRWGPGGAS MAGSEELGLREDTLRVLA AFLRRGEAAGSPVPTPPR  
SPAQEEPTDFLSRLRRLPCSLGRGAAPSESPRPCSLPIRPCYGLEPGPATPDFYALVAQ  
RLEQLVQEQLKSPSPPELQGPSTEKEAILRRLVALLEEEAEVINQKLASDPALRSKLVR  
LSSDSFARLVELFCSRDDSSRPSRACPGPPPSPEPLARLALAMELSRRVAGLGGTLAGL  
SVEHVHSFTPWIIQAHGGWEGILAVSPVDNLPLD

>sp|Q9P2W7|B3GA1\_HUMAN Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase  
1 OS=Homo sapiens GN=B3GAT1 PE=1 SV=2

MPKRRDILAIVLIVLPWTLITVWHQSTLAPLLAVHKDEGSDPRRETTPPGADPREYCTSD  
RDIVEVVRTEYVYTRPPWSDTLPTIHVVTPYSRPVQKAELTRMANTLLHVPNLHWLVV  
EDAPRRTPLTARLLRDTGLNYTHLVETPRNYKLRGDARDPRI PRGTMQRNLALRWLRET  
FPRNSSQPGVVYFADDNTYSLELFEEMRSTRRVSVWPVAFVGGRLYEAPRVNGAGKVVG  
WKTVDPHRPF AIDMAGFAVNRLILQRSQAYFKLRGVKGGYQESSLLRELVT LNDLEPK  
AANCTKILVWHTRTEKPVLVNEGKKGFTDPSVEI

>sp|Q9NPZ5|B3GA2\_HUMAN Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase  
2 OS=Homo sapiens GN=B3GAT2 PE=1 SV=2

MKSALFTRFFILLPWILIVIIMLDVDTRRPVPLTPRPYFSPYAVGRGGARLPLRRGGPA  
HGTQKRNSRPQPQPEPQLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDAA  
ARSELVSRFLARAGLPSTHLHVTPRRYKRPGLP RATEQRNAGLAWLRQRHQHQAQPGV  
LFFADDNTYSLEL FQEMRTTRKVSVPVGLVGGRRYERPLVENGKVVGWYTGWRADRPF  
AIDMAGFAVSLQVILSNPKAVFKRRGSQPGMQESDFLKQITTVEELEPKANNCTKVLVWH  
TRTEKVNLANEPKYHLDTVKIEV

>sp|Q8NCR0|B3GL2\_HUMAN UDP-GalNAc:beta-1,3-N-acetylgalactosaminyltransferase 2 OS=Homo  
sapiens GN=B3GALNT2 PE=1 SV=1

MRNWLVLCCPCLVGAALHLWLRLRSPPPACASGAGPADQLALFPQWKSTHYDVVVGVLSA  
RNNHELNRNVIRSTWMRHL LQHPTLSQRVLVKFIIGA HGCEVPVEDREDPYSCKLLNITNP  
VLNQEIEAFSLSEDTSSGLPEDRVVSVSFRVLYPIVITSLGVFYDANDVGFQRNITVKLY  
QAEQEEALFIARFSPSCGVQVNKLWYKPVEQFILPESFEGTIVWESQDLHGLVSRNLHK  
VTVNDGGGVLRVITAGEGALPHEFLEGVEGVAGGFIYTIQEGDALLHNLHSRPQRLIDHI  
RNLHEEDALLKEESSIYDDIVFDVVD TYRNP AKLLNFYRWTVETTSFNLLKTD DDCY  
IDLEAVFNRI VQKNLDGPNFWGNFRLNWA VDR TGKWQELEYPSPAYPAFACGSGYVISK

DIVKWLASNSGRLKTYQGEDVSMGIWMAAIGPKRYQDSLWLCEKTCETGMLSSPQYSPWE  
LTELWKLKERCGDPCRCQAR

>sp|Q9Y5Z6|B3GT1\_HUMAN Beta-1,3-galactosyltransferase 1 OS=Homo sapiens GN=B3GALT1 PE=1  
SV=1

MASKVSCLYVLTVCWASALWYLSITRPTSSYTGSKPFSLTVARKNFTFGNIRTRPINP  
HSFEFLINEPNKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFLLGK  
NADPVLNQMQVESQIFHDIIVEDFIDSYHNLTCLKTLMGMRWVATFCSKAKYVMKTDSDI  
FVNMDNLIYKLLKPSTKPRRRYFTGYVINGGPIRDVRSKWYMPRDLYPDSNYPPFCSTG  
YIFSADVAELIYKTSLHTRLHLEDVYVGLCLRKLGIHPFQNSGFNHWMAYSLCRYRRV  
ITVHQISPEEMHRIWDMSSKKHLRC

>sp|043825|B3GT2\_HUMAN Beta-1,3-galactosyltransferase 2 OS=Homo sapiens GN=B3GALT2 PE=1  
SV=1

MLQWRRRHCCFAKMTWNAKRSIFRTHLIGVLSLVFLFAMFLFFNHHDWLPGRAGFKENPV  
TYTFRGFRSTKSETNHSSLRNIWKETVPQTLPQTATNSNNTDLSPQGVGTGLENTLSANG  
SIYNEKGTGHPNSYHFYIINEPEKCEKSPFLILLIAAEPGQIEARRAIRQTWGNESLA  
PGIITRIFLLGLSIKLNGLYQRAILEESRQYHDI IQQEYLDITYNLTIKTLGMNWWAT  
YCPHIPYVMKTDSDMFVNTEYLINKLLKPDLPFRHNYFTGYLMRGYAPNRNKDSKWYMP  
DLYPSERYPVFCSTGYVFGDLAEKIFKVSIGIRRLHLEDVYVGICLAKLRIDPVPPP  
EFVFNHWRVSYSSCKYSHLITSHQFQPSELIKYWNHLQQKNHACANAAKEKAGRYRHRK  
LH

>sp|Q6L9W6|B4GN3\_HUMAN Beta-1,4-N-acetylgalactosaminyltransferase 3 OS=Homo sapiens  
GN=B4GALT3 PE=1 SV=2

MGSPRAARPPLLRPVKLLRRRFRLLALAVSVGLWTLYLELVASAQVGGNPLNRRYGS  
WRELAKALASRNIPAVDPLQFYHPQRLSLEDHDIDQGVSSNSYLKWNKVPWLSEFRG  
RANLHVFEWCGSSIQLRRNLHFPLYPHIRTTLRKLAVSPKWTNYGLRIFGYLHPFTDG  
KIQFAIAADNAEFWLSDDQVSGQLLASVGKTGKEWTAPGEFGKFRSQISKPVLSAS  
HRYFFEVLHKQNEEGTDHVEVAWRNDPGAKFTIIDSLSLSLFTNETFLQMDEVGHIPQT  
AASHVDSSNALPRDEQPPADMLRPDRTL YRVPLIPKSHLRHVLPCPYKPSYLV DGLP  
LQRYQGLRFVHLSFVYPNDYTRL SHMETHNCFYQENAYYQDRFSFQEYIKIDQPEKQGL  
EQPGFEENLLEESQYGEVAEETPASNNQNARMLEGRQTPASTLEQDATDYRLRSLRKL  
QPREGLLAPFSKRNSTASFPGRTSHIPVQQPEKQKQPSPEPSQDSPHSDKWPPGHPVKN  
LPQMRGPRPRPAGDSPRKTQWLNVESYIAEQRRGDRMRPQAPGRGWHEEEVVAAGQE  
GQVEGEEEEEEEEEDMSEVFYVPVFDPVVNWDTFSARNLDFQALRTDWIDLSCNTS  
GNLLPEQEALVTRVFLKKNQRSRGYQLQRIVNVEKRQDQLRGGRYLLELELELQGG  
RVVRLSEYVSARGWQGIDPAGGEEVEARNLQGLVWDPHNRRRQVLNTRAQEPKLCWPQGF  
SWSHRAVVHFVVPVKNQARWVQFIKDMENLFQVTGDPHFNIVITDYSSDMDVEMALKR  
SKLSYQYVKLSGNFERSAGLQAGIDLKDPHSIIFLCDLHIHFAGVIDAIRKHCVEGK  
MAFAPVMRLHCGATPQWPEGYWEVNGFGLLGIIKSDLDRI GGMNTKEFRDRWGGEWEL  
LDRILQAGLDVERLSLRNFFHHFHSKRGMSRRQMKTL

>sp|060909|B4GT2\_HUMAN Beta-1,4-galactosyltransferase 2 OS=Homo sapiens GN=B4GALT2 PE=1  
SV=1

MSRLLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSARGPAHALHPAASS  
SSSSNCSRPNATASSSGLPEVPSALPGPTAPTLPPCPDSPGLVGRLLIEFTSPMPLER  
VQRENPGVLMGGRYTPDCTPAQTVAVIIPFRHREHHLRYWLHYLHPILRRQRLRYGVYV

INQHGEDTFNRAKLLNVGFLEALKEDAAYDCFIFSDVDLVPMDDRNLYRCGDQPRHFAIA  
MDKFGFRLPYAGYFGGVSGLSKAQFLRINGFPNEYWGWGGEDDDIFNRISLTGMKISRPD  
IRIGRYRMIKHDRDKHNEPNPQRFTKIQNTKLTMRDGGIGSVRYQVLEVSRQPLFTNITV  
DIGRPPSWPPRG

>sp|Q6ZUV0|BACHL\_HUMAN Putative cytosolic acyl coenzyme A thioester hydrolase-like  
OS=Homo sapiens GN=ACOT7L PE=5 SV=1

MIKEAGAIISTRHCNPQNGDRCVAALARVECTHFLWPMCIGEVAHVSAEITYTSKHSVEV  
QVNMMSENILTGAKKLTNKATLWYAPLSLTNVDKVLLEPPVYFRQEQUEEGQKRYKTQK  
LERMETNWRNGDIVQPVLNPEPNTVSYSQSSLIHLVGPSDCTLHSFVHEGVTMKVMDEVA  
GILAAHCKTNLVTASMEAINFDNKIRKGCIKTISGRMTFTSNKSVEIEVLVDADCVVDS  
SQKRYRAASVFT

>sp|Q86Y30|BAGE2\_HUMAN B melanoma antigen 2 OS=Homo sapiens GN=BAGE2 PE=2 SV=1

MAAGVVFLALSAQLLQARLMKEESPVVSWRLEPEDGTALDVHFVSTLEPLSNAVKNVPR  
CIIILVLQEPTAFRISVTSSCFVQNTLTLLKDRRKMQTVQCATARETS

>sp|Q99728|BARD1\_HUMAN BRCA1-associated RING domain protein 1 OS=Homo sapiens GN=BARD1  
PE=1 SV=2

MPDNRQPRNRQPRIRSGNEPRAPAMEPDGRGAWAHSRAALDRLEKLLRCSRCTNILREP  
VCLGGCEHIFCSNCVSDCIGTGPCVCTPAWIQDLKINRQLDSMIQLCSKLRNLLHDNEL  
SDLKEDKPRKSLFNDAGNKKNSIKMWFSPRSKKVRYVVSASVQTQPAIKKDASAQQDSY  
EFVSPSPPADVSERAKKASARSCKKQKKTLAEINQKNLEAEKEDGEFDSKEESKQKL  
SFCSQPSVISSPQINGEIDLLASGSLTESECFGSLTEVSLPLAEQIESPDKSRNEVVT  
EKVCKNYLTSSKSLPLENNGKRHHNRLSSPISKRCRTSILSTSGDFVKQTVPSENIPL  
ECSSPPSCKRKVGGTSGRKNNSMDEFISLSPGTPPSTLSSSYRRVMSSPSAMKLLPNM  
AVKRNHRGETLLHIASIKGDIPSVEYLLQNGSDPNVKDHAGWTPHEACNHGHLKVVELL  
LQHKALVNTTGYQNSDPLHDAAKNGHVDIVKLLLSYGASRNAVNIFGLRPVDYTDDESMK  
SLLLLPEKNESSSASHCSVMNTGQRRDGPLVLIGSGLSSEQQKMLSELAVILKAKKYTEF  
DSTVTHVVVPGDAVQSTLKCMLGILNGCWILKFEWVKAACLRKRVCEQEEKYEIPEGPRRS  
RLNREQLLPKLFDCYFYLGWTFKHHPKDNLIKLVTAGGGQILSRKPKPDSVDTQTINTV  
AYHARPDSQRFCTQYIIYEDLCNYHPEVRVQGVWKAPSSWFIDCVMSFELLPLDS

>sp|Q9BZE3|BARH1\_HUMAN BarH-like 1 homeobox protein OS=Homo sapiens GN=BARHL1 PE=2 SV=1

MEGSNGFGIDSILSHRAGSPALPKGDPLLGDCRSPLELSRSESSSDCSSPASPGRDCL  
TGTPRPGGASGPLDLSHLQPGQLSAPASRTVTSSFLIRDILADCKPLAACAPYSSSGQP  
AAPEPGGRLAAKAAEDFRDKLDKSGSNASSDSEYKVKEEGDREISSSRDPPVRLKKPRK  
ARTAFTHQLAQLERSFERQKYLVSQDRMELAASLNLTDQVKTWYQNRRTKWKRTAVG  
LELLAEAGNYSALQRMFSPYFYPQSLVSNLDPGAALYLYRGPSAPPPALQRPLVPRILI  
HGLQGASEPPPLPPLAGVLPRAAQPR

>sp|Q9NRL2|BAZ1A\_HUMAN Bromodomain adjacent to zinc finger domain protein 1A OS=Homo  
sapiens GN=BAZ1A PE=1 SV=2

MPLLHRKPFVRQKPPADLRPDEEVFYCKVTNEIFRHYDDFFERTILCNSLVWSCAVTGRP  
GLTYQEALSEKKARQNLQSFPEPLIIPVLYLTSLTHRSRLHEICDDIFAYVKDRYFVEE  
TVEVIRNNGARLQCRILEVLPPSHQNGFANGHVNSVDGETIIISDSDSETQSCSFQNGK  
KKDAIDPLLFKYKVQPTKKELHESAIVKATQISRRKHLFSRDKLKLFLKQHCEPQDGVK  
IKASSLSTYKIAEQDFSYPFDDPPTFIFSPANRRRGRPPKRIHISQEDNVANKQTLASY  
RSKATKERDKLLKQEEMKSLAFEKAKLKREKADALEAKKKEKEDKEKKREELKKIVEEER

LKKKEEKERLKVEREKEREKLREEKRKYVEYLKQWSKPREDMECDLDELPEPTPVKTRL  
PPEIFGDALMVLEFLNAFGELFDLQDEFDPDGVTLLEVLEEALVGNDSEGPLCELLFFFLTA  
IFQAI AEEEEEEVAKQLTDADTKDLTEALDEADPTKSALS AVASLAAAWPQLHQGCSLK  
SLDLD SCTLSEILRLHILASGADVTSANAKYRYQKRGGF DATDDACMELRLSNPSLVKKL  
SSTSVDLTPGEKMKILHALCGKLLTLVSTRDFIEDYVDILRQAKQEFRELKAEQHRKER  
EEAAARIRKRKEEKLKEQE QKMEKQEKLKEDEQRNSTADISIGEEEREDFDTSIESKDT  
EQKELDQDMVTEDEDDPGSHKRGRRGKRGQNGFKEFTRQE QINCVTREPLTADEEEALKQ  
EHQRKEKELLEKIQS AIACTNIFPLGRDRMYRRYWFPSIPGLFIEEDYSGLTEDMLLPR  
PSSFQNNVQSQDPQVSTKTGEPLMSESTSNIDQGPRDHSVQLPKPVHKPNRWCFYSSCEQ  
LDQLIEALNSRGHRESALKETLLQEKSRI CAQLARFSEEKFHFSDKPQPD SKPTYSRGRS  
SNAYDPSQMCAEQLELRLRDFLLDIEDRIYQGT LGAIKVTDRHIWRSAL ESGRYELLSE  
ENKENGIIKTVNEDVEEMEIDEQTKVIVKDRLLGIKTETPSTVSTNASTPQSVSSVVHYL  
AMALFQIEQGIERRFLKAPLDASDSGRSYKTVLDRWRESLLSSASLSQVFLHLSTLDRSV  
IWSKSI LNARCKICRKKGAENMVLC DGC DRGHHTYCVRPKLKTVPEGDWFCPEC RPKQR  
SRRLSSRQRP SLESD EDDVEDSMGGEDDEVDGDEEGQSEEEYEVEQDEDDSQEEEVSL  
PKRGRPVRLPVKTRGKLSSSFSSRGQQEPGRYPSRSQQSTPKTTVSSKTGRSLRKINS  
APPTETKSLRIASRSTRHSHGLQADVFVELLSPRRKRGRKSANNTPENSPNFPNFRVI  
ATKSSEQSRSVNIASKLSLQESKRRRCRKRQSPEPSPVTLGRRSSGRQGGVHELSAFEQ  
LVVELVRHDDSWPFLKLVSQI QVPDYDI IKKPIALNIIREKVNKCEYKLASEFIDDIEL  
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>sp|Q6ZUJ8|BCAP\_HUMAN Phosphoinositide 3-kinase adapter protein 1 OS=Homo sapiens  
GN=PIK3AP1 PE=1 SV=2

MAASGVPRGCDILIVYSPDAEEWCQYLQTLFLSSRQVRSQKILTHRLGPEASFS AEDLSL  
FLSTRCVVLLSAELVQH FHKPALLPLLQRAFHPPHRVVRLLCGVRDSEEF LDFFPDWAH  
WQELTCDEPETVYAAVKKAISED SGCDSVTDTEPEDEKVVSYSKQQLPTVTSPGNLMV  
VQPDRIIRCGAETTVYVIVRCKLDDRVATEAEFSPEDSPSVRMEAKVENEYTI SVKAPNLS  
SGNVSLKIYSGDLVVCETVISYYTDMEEIGNLLSNAANPVEFMCQAFKIVPYNTETLDKL  
LTESLKNNIPASGLHLFGINQLEEDMMTNQRDEELPTLLHFAAKYGLKNLTALLTCPG  
ALQAYSVANKHGHYPNTIAEKHGFRDLRQFIDEYVETV DMLKSHIKEELMHGEEADAVYE  
SMAHLSTDLLMKCSLNP GCD ELDYESMAAFVPAATEDLYVEMLQASTSNPIPGDGFSRAT  
KDSMIRKFLEGNSMGMTNLERDQCHLGQEEDVYHTVDDDEAFSVDLASRPPVPVPRPETT  
APGAHQLPDNEPYIFKVFAEKSQERPGNFYVSSESIRKGPPVRPWRDRPQSSIYDPFAGM  
KTPGQRQLITLQE QVKLGIVNDEAVLHFKEWQLNQKKRSESFRFQQENLKRLRDSITRR  
QREKQKSGKQTDLEITVPIRHSQHLPKAVEFGVYESGPRKSVIPRTELRRGDWKTDSTS  
STASSTSNRSSTRSLSVSSGMEGDNEDNEVPEVTRSRSPGPPQVDGTPTMSLERPPRVP  
PRAASQRPPPTRETFHPPPPVPPRGR

>sp|P56945|BCAR1\_HUMAN Breast cancer anti-estrogen resistance protein 1 OS=Homo sapiens  
GN=BCAR1 PE=1 SV=2

MNHLNLAKALYDNVAESPDELSFRKGDIMTVLEQDTQGLDGGWLC SLHGRQGIVPGNRL  
KILVGM YDKKPAGPGPGPATPAQPQGLHAPAPPASQYTPMLPNTYQPQPD SVYLVPTP  
SKAQQGLYQVPGPSPQFQSPPAKQTSTFSKQTPHHFPSPATDLYQVPPGPGGPAQDIYQ  
VPPSAGMGHDIYQVPPSMDTRSWEGTKPPAKVVVPTRVGQGYVYEAQPEQDEYDIPRHL  
LAPGPQDIYDVPPVRGLLPSQYGGQEVYDTPPMAVKGPNGRDPLLEVYDVPPSVEKGLPPS  
NHHAVYDVPPSVSKDVPDGPLLREETYDVPPAFAKAKPFDPARTPLVLAAPPPDSPPAED



VYDVPPPAPDL YDVPPGLRRPGPTLYDVPRERVL PPEVADGGVVD SGVYAVPPPAEREA  
PAEGKRLSASSTGSTRSSQSASSLEVAGPGREPLELEVAVEALARLQQGVSATVAHLLDL  
AGSAGATGSWRSPSEPQEPLVQDLQAAVAQSAVHELLEFARSAVGNAAHTSDRALHAK  
LSRQLQKMEDVHQT LVAHGQALDAGRGSGATLEDLDRLVACSRAPPEAKQLASFLHGN  
ASLLFRRTKATAPGPEGGTLHPNPTDKTSSIQSRPLSPPKFTSQDSPDGQYENSEGGW  
MEDYDYVHLQGKEEFKTKELLEKGSITRQKSQLELQQLKQFERLEQEVSRPIDHDLA  
NWTPAQPLAPGRTGGLPSDRQLLL FYLEQCEANLTTLTNAVD AFFTAVATNQPPKIFVA  
HSKFVILSAHKL VFIGDTLSRQAKAADVRSQVTHYSNLLCDLLRGIVATTKAAALQYPSP  
SAAQDMVERVKELGHSTQQFRRVLGQLAAA

>sp|Q8TDM0|BCAS4\_HUMAN Breast carcinoma-amplified sequence 4 OS=Homo sapiens GN=BCAS4  
PE=1 SV=1

MQRTGGGAPRGRNHGLPGSLRQDPVALLMLLV DADQPEPMRSGARELALFLTPEPGAE  
AKEVEETIEGMLLRLEEFCSLADLIRSDTSQILEENIPVLKAKLTEMRGYAKVDRLEAF  
VKMVGHHVAFLEADVLAERDHGAFPA LRRLWLSAGLPSFRNVECSGTIPARCNLR LPG  
SSDSPASASQVAGITEVTCTGARDVRAAHTV

>sp|Q9NWK9|BCD1\_HUMAN Box C/D snoRNA protein 1 OS=Homo sapiens GN=ZNHIT6 PE=1 SV=1

MEFAAENEGKSGGGLHSAEGVRLSPEPGREGVRDLAGAE EFGGEEGTGLTGIKEIGDG  
EEGSGQRPEEIPMDLTVVKQEI IDWPGTEGRLAGQWVEQEVEDRPEVKDENAGVLEVKQE  
TDSSLVVKAEKVGEPEVKKEEKVKEEVM DWSEVKEEKDNLEIKQEEKFVGQCIKEELMHGE  
CVKEEKDFLKKEI VDDTKVKEEPPINHPVGCKRKLAMSR CETCGTEEAKYRCPRCMRYSC  
SLPCVKKHAELTCNGVRDKTAYISIQQFTEMNLLSDYRFLEDVARTADHISRDAFLKRP  
ISNKYMYFMKNRARRQG INLKLLPNGFTKRKENSTFFDKKKQFCWHVKLQFPQSQA EYI  
EKRPVDDKTINEILKPYIDPEKSDPVIRQLKAYIRSQTGVQILMKIEYMQQNLVRYEL  
DPYKSLLDNLRNKVIEI EYPTLHVVLKGSNNDMKVLHQVKSESTKNVGNEN

>sp|O60756|BCE1\_HUMAN Putative protein BCE-1 OS=Homo sapiens GN=BCE1 PE=5 SV=1

MGRTP TAVQVKSFTKQGGQRRVCRDLPLKNTKNGLSPGMRTCFLYLRFFPCLSWMSLKWT  
QAVHCARNIVLSFMLLLLLLLNYNM

>sp|O14874|BCKD\_HUMAN [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase,  
mitochondrial OS=Homo sapiens GN=BCKDK PE=1 SV=2

MILASVLRSGPGGGLPLRPLLGPALALRARSTSATDTHHVEMARERSKTVTSFYNQSAID  
AAAEKPSVRLTPTMMLYAGRSQDGSLLKSARYLQQELPVRIAHRIKGFRC LPIIGCNP  
TILHVHELYIRAFQKLTDFPPIKDQADEAQYQ LVRQLDDHKDVVTLA EGLRESRKHI  
EDEKL VRYFLDKT LSR LGIRMLATHHLALHEDKPDFVGI ICTRLSPKKIIEKWDFARR  
LCEHKYGNAPVRVINGHVAARFPFIPMPLDYILPELLKNAMRATMESHLDTPYNVPDVVI  
TIANNDVDLIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRISPLFGHLDMHSGAQS  
GPMHGFGLPTS RAYAEYLGGSLQLQSLQGIGTDVYLR LRLRHIDGREESFRI

>sp|Q8N143|BCL6B\_HUMAN B-cell CLL/lymphoma 6 member B protein OS=Homo sapiens GN=BCL6B  
PE=2 SV=2

MGSPAAP EGALGYVREFTRHSSDVLGNLNLRLRGILTDV TLLVGGQPLRAHKAVLIACS  
GFFYSIFRGRAGVGVDVLSLPGGPEARGFAPLLDFMYTSRLRLSPATAPVLA AATYLMQ  
EHVVQACHRFIQASYEPLGISLRPLEAEPPTPTAPPPGSPRRSEGHPDPPTESRSCSQG  
PPSPASDPKACNWKYKYIVLNSQASQAGSLVGERSSGQPCPQARLP SGDEASSSSSS  
SSSSEEGPIPGPQSRLSPTAATVQFKCGAPASTPYLLTSQAQDTSGSPSERARPLPGSEF  
FSCQNCEAVAGCSSGLDSLPGDEDKPYKCQLCRSSFRYKGNLASHRTVHTGEKPYHCSI

CGARFNRPANLKTSHSRIHSGEKPYKCETCGSRFVQVAHLRAHVL IHTGEKPYPCPTCGTR  
FRHLQTLKSHVRIHTGEKPYHCDPCGLHFRHKSQRLRLHLRQKHGAATNTKVHYHILGGP

>sp|Q9BQE9|BCL7B\_HUMAN B-cell CLL/lymphoma 7 protein family member B OS=Homo sapiens  
GN=BCL7B PE=1 SV=1

MSGRSVRAETRSRAKDDIKKVMAAIEKVRKWEKKWVTVGDTSLRIFKWVPVTDSEKEEKS  
KSNSSAAREPNGFPDASANSLLLEFQDENSNQSSVSDVYQLKVDSSSTNSSPSPQQSES  
LSPAHTSDFRITDDSQPPTLGQEILEEPSLPSSEVADEPPTLTKEEPVPLETQVVEEEEDS  
GAPPLKRFCVDQPTVPQTASES

>sp|000512|BCL9\_HUMAN B-cell CLL/lymphoma 9 protein OS=Homo sapiens GN=BCL9 PE=1 SV=4

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PSPCDSKSGGHTPKALPGPGGSMGLKNGAGNGAKGKGRERSISADSFQDRDPGTPNDDS  
DIKECNSADHIKSQDSQHTPHSMTPSNATAPRSSTPSHGQTTATEPTPAQKTPAKVVYVF  
STEMANKAAEAVLKGQVETIVSFHIQNISNNKTERSTAPLNTQISALRNDPKPLPQQPPA  
PANQDQNSSQNTLQPTPIIPAPAPKPAAPPRPLDRESPGVENKLIPSVGPASSTPLPP  
DGTGPNSTPNNAVTPVSQGSNSSADPKAPPPPVSSGEPPTLGENPDGLSQEQLEHRE  
RSLQTLRDIQRMLFPDEKEFTGAQSGGPQQNPGVLDGPQKKPEGPIQAMMAQSQSLGKGP  
GPRTDVGAPFGPGQHRDVPFSPDEMVPSPMNSQSGTIGPDHLDHMTPEQIAWLKLQGEFY  
EEKRRKQEQQVVVQCSLQDMMVHQHGPRGVVRGPPPPYQMTPEGWAPGGTEPFSDGINM  
PHSLPPRGMAPHNMPGSGMRLPGFAGMINSEMEGPNVNPASRPGLSGVSWPDDVPKIP  
DGRNFPFGQGIFSGPGRGERFPNPQGLSEEMFQQQLAEKQLGLPPGMAMEGIRPSMEMNR  
MIPGSQRHMEPGNNPIFPRIPEVGLSPSRGDFPKGIPPQMGPGRELEFGMVPSGMKGDV  
NLNVNMGSNSQMIPQKMREAGAGPEEMLKL RPGGSDMLPAQQKMVPLPFGEHPQQEYGMG  
PRPFLPMSQGGPSNSGLRNLREPIGPDQRTNSRLSHMPPLPLNPSSNPTSLNTAPPVQRG  
LGRKPLDISVAGSQVHSPGINPLKSPTMHQVQSPMLGSPSGNLKSPQTPSQLAGMLAGPA  
AAASIKSPVLGSAASPVLKSPSLPAPSPGWTSSPKPPLQSPGIIPNHKAPLTMASPA  
MLGNVESGGPPPTASQPASVNIPGSLPSTPYTMPPEPTLSQNPLSIMMSRMSKFAMPS  
STPLYHDAIKTVASSDDDSPARSPLPSMNNMPGMGINTQNPRISGPNPVVPMPTLSPM  
GMTQPLSHSNQMPSPNAVGNIPPHGVPMGPGLMSHNPIMGHGSQEPPMVPQGRMGFPQG  
FPPVQSPPQQVPFPHNGPSGGQGSFPGMGFPGEGLGRPSNLPQSSADAALCKPGGPGG  
PDSFTVLGNSMPSVFTDPDLQEVIRPGATGIPFDLSRIIPSEKPSQTLQYFPRGEVPGR  
KQPQGPFGFSGHMQMMGEQAPRMGLALPGMGPGPVGTDPDIPLGTAPSMGHNPMRPPA  
FLQQGMMGPHHRMMSPAQSTMPGQPTLMSNPAAVGMIPGKDRGPAGLYTHPGVPGSPGM  
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>sp|Q9NYF8|BCLF1\_HUMAN Bcl-2-associated transcription factor 1 OS=Homo sapiens GN=BCLAF1  
PE=1 SV=2

MGRSNSRSHSSRSKRSQSSSRSRSRSHSRKKRYSSRSRSTYSRSRSRDRMYSRDYRRD  
YRNNRGMRRPYGYRGRGRGYQGGGGRYHRGGYRPVWNRHRSRSPRRGRSRSRSPKRRSV  
SSQSRSRSRRSYSSRSRSPSSSSRSSSPYSKSPVSKRRGSQEKQTKKAEQEPQEEESPLK  
SKSQEPEKDTFEHDPSESIDFNKSSATSGDIWPLSAYDNSRSPHSPSPSIATPPSQSS  
SCSDAPMLSTVHSAKNTPSQHSHSIQHSPERSGSGSVNGSSRYSQSPQNSPIHHIPSRRS  
PAKTIAPQNAPRDESRRSSFPDGGDQETAKTGKFLKRFTDEESRVFLLDRGNTRDKEA  
SKEKGSEKGRAEGEWEDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQG  
KSFATASHRNTEEEGLKYKSKVSLKGNRESDFREEKNYKLKETGYVVERPSTTKDKHKE  
EDKNSEIRITVKKETQSPEQVKSEKLKDLFDYSPPLHKNLDAREKSTFREESPLRIKMIAS

DSHRPEVKLKMAPVPLDDSNRPASLTKDRLLASTLVHVKKEQEFRSIFDHIKLPQASKS  
TSEFIQHIVSLVHHVKEQYFKAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPS  
TLRKHTRLAGEERVFKENQKGDKKLRCDSADLRHIDRRRKERSKERGDSKGSRESSGS  
RKQEKTPKDYKEYKSYKDDSKHKREQDHSRSSSSASPSPPSSREEKESKKEREEEFKTH  
HEMKEYSGFAGVSRPGTFFRIRGRGRARGVFAGTNTGPNNSTTFQKRPKEEWDPEYT  
PKSKKYFLHDDRDDGVDYWAKRGRGRGTFFQGRGRGFNFKKSGSSPKWTHDKYQGDGIVED  
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>sp|Q8NFC6|BD1L1\_HUMAN Biorientation of chromosomes in cell division protein 1-like 1  
OS=Homo sapiens GN=BOD1L1 PE=1 SV=2

MATNPQPQPPPPAPPPPPPPQPQPQPPPPPPPGGAGPGAGGAGGAGAGAGDPQLVAMIVNH  
LKSQGLFDQFRDCLADVDTKPAYQNLQRVDNFVANHLATHWSPHLNKNQLRNNIRQQ  
VLKSGMLESIDRIISQVVDPKINHTRFPQVEKAVHEFLATLNHKEEGSGNTAPDDEKPD  
TSLITQGVPTGPSANVANDAMSILETITSLNQEASAARASTETSNAKTSEERASKKLPSQ  
PTTDTSTDKERTSEDMADKEKSTADSGGEGLETAPKSEEFSDLPCPVEEKNYTKHEHNNL  
ILLNKDVQGESSEQKNKSTDKGEKKPDSNEKGERKKKKKKTEKKFDHKKSEDTQKVKD  
EKQAKEKEVESLKLPSSEKNSNAKTVEGTEKEDFSLIDSDVDGLTDITVSSVHTSDLSSFE  
EDTEEEVVTSDSMEEGEITSDEEKNKQNKTKTQSDSSEGGTKSVRHAYVHKPYLYSKY  
YSDSDELVEQRRQSIKEKEERLLRRQINREKLEEKRKQKAEKTKSSKTKGQGRSSVD  
LEESSTKSLEPKAARIKEVLKERKVLKKVALSKRRKKDSRNVENSKKKQYEEDESKET  
LKTSEHCEKEKISSKELKHVHAKSEPSKPARRLSESLHVVDENKNESKLEREHKKRRTST  
PVIMEGVQEETDTRDVQRQVERSEICTEEPQKQKSTLNEKHLKKDDSETPHLKSLKKE  
VKSSKEKPEREKTSEDKLSVKHKYKGDGMHKTGDETELHSEKGLKVEENIQKQSQQTK  
LSSDDKTERKSKHRNERKLSVLGDKGKPVSEYI IKTDENVRKENNKKERRLSAEKTKAEH  
KSRRSSDSKIQKDSLGSQKHGKITLQRRSESYSEDKCDMDSTNMDSNLKPEEVVHKEKRRT  
KSLLEEKLVLSKSKTQGGKQVQVETELQEGATKQATTPKPDKEKNTENDSEKQRKSKV  
EDKPFEEVGVEPVLETASSAHSTQKDSHRAKLPLAKEKYKSDKSDSTRLERKLSDGH  
KSRLKHSSKDIKKKDENKSDDKGKEVDSSHEKARGNSSLMKKLSRRLCENRRGSLSQ  
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RNNNSQQDIDSENMKQKTSATVQKDELRTCTADSKATAPAYKPGRTGVNSNSEKHADHR  
STLTKKMHISAVSKMNPGEKEPIHRGTTEVNIDSETVHRMLLSAPSENDRVQKNLKNTA  
AEEHVAQGDATLEHSTNLDSSPSLSSVTVPPLRESYDPDVIPLFDKRTVLEGSTASTSPA  
DHSALPNQSLTVRESEVLKTSDSKEGGEGFTVDTPAKASITSKRHIPEAHQATLLDGKQG  
KVIMPLGSKLTGVIVENENITKEGGLVDMAKKENDLNAEPNLKQTIKATVENGGKKGIAV  
DHVVGLENTKYAETVKLKHKRSQKVKDISIDVERRNENSEVDTSAGSGSAPSVLHQNRG  
QTEDVATGPRRAEKTSVATSTEGDKDVTLSPVKAGPATTSSETRQSEVALPCTSIEAD  
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AESEDRAADLLAVHAVKIEANVNSVVTEEKDDAVTSAGSEEKCDGSLSRDSEIVEGTITF  
ISEVESDGAVTSAGTEIRAGSISSEEVDSGSGNMMRMGPKKETEGTVTCTGAEGRSDFV  
ICSVTGAGPREERMVGTAGVVLGDNDAPPGTSASQEGDGSVNDGTEGESAVTSTGITEDG  
EGPASCTGSEDSSEGFASISESEENGESAMDSTVAKEGTNVPLVAAGPCDEGIVTSTGA  
KEEDEEGEDVVTSTGRGNEIGHASTCTGLGEESEGLICESAEGDSQIGTVVEHVEAEAG  
AAIMNANENNVDMSMGTEKGSKDTDICSSAKGIVESSVTSAVSGKDEVTPVPGGCEGPMT  
SAASDQSDSLEKVEDTTISTGLVGGSYDVLVSGEVPECEVAHTSPSEKEDEDIITSVEN  
EECDGLMATTASGDI TNQNSLAGGKNQGVLIISTSTNDYTPQVSAITDVEGGLSDALR

TEENMEGTRVTTTEEFEMPMPASVSGDDSQLTASRSEEKDECAMISTSIGEEFELPISSAT  
TIKCAESLQPVAABVEERATGPVLISTADFEQMPMPASPEAESPLASTSKEEKDECALIS  
TSIAEECEASVSGVVSENERAGTVMEEKDGSIGISTSSVEDCEGPVSSAVPQEEGDPS  
VTPAEEMGDTAMISTSTSEGCEAVMIGAVLQDEDRLTITRVEDLSDAIIISTSTAECMPI  
SASIDRHEENQLTADNPEGNGDLSATEVSKHKVPMPSLIAENNCRCPGPVRGGKEPGPVL  
AVSTEEGHNGPSVHKPSAGQGHPASVCAEKEEKHGKECPEIGPFAGRGQKESTLHLINAE  
EKNVLLNSLQKEDKSPETGTAGGSSTASYSAGRGLEGNANSPAHLRGPEQTSQGTAKDPS  
VSIRYLAAVNTGAIKADDMPVQGTVAEHSFLPAEQQSEDNLKTSTTKCITGQESKIAP  
SHTMIPPATYSVALLAPKCEQDLTIKNDYSGKWDQASAEKTGDDNSTRKSFPEEGDIMV  
TVSSEENVCDIGNEESPLNVLGGLKLANLMEAYVPSEEEKNGEILAPPESLCGGKPSG  
IAELQREPLLVNESLNVENSGFRTNEEIHSESYNKGEISSGRKDNAEISGHSVEADPKE  
VEEEERHMPKRKRKQHYLSSEDEPDNDVLDRIETAQRQCPETEPHDTKEENSRDLEE  
LPKTSSETNSTTSRVMEEKDEYSSSETTGEKPEQNDDDTIKSQEEDQPIIIKRKRGRPRK  
YPVETTLKMKDDSKTDTGIVTVEQSPSSSKLVMTDESNETANLQERSISNDDGEEKI  
VTSVRRRGRKPKRSLTVSDDAESSEPERKRQKSVSDPVEDKKEQESDEEEEEEEDEPSG  
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>sp|Q14457|BECN1\_HUMAN Beclin-1 OS=Homo sapiens GN=BECN1 PE=1 SV=2

MEGSKTSNNSTMVQSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAAKPGETQEE  
ETNSGEEPFIIETPRQDGVSRRIIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTG  
DLFDIMSGQTDVDHPLCEECTDILLDQLDQLNVTENECQNYKRCLEILEQMNEEDSEQL  
QMELKELALEERLIQELEDVEKNRKIVAENLEKVQAEAEERLDQEEAQYQREYSEFKRQQ  
LELDDELKSVENQMRYAQTQLDKLKKTNVFNATFHIWHSQGFGTINNFRLGRLPSVPVEW  
NEINAAWGQTVLLHALANKMGLKFQRYRLVPYGNHSLYLESLTDKSKELPLYCSGGLRFF  
WDNKFHDHAMVAFLDCVQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGSGSGSYSIKTQFN  
SEEQWTKALKFMLTNLKWGLAWSSQFYNK

>sp|Q9NYM9|BET1L\_HUMAN BET1-like protein OS=Homo sapiens GN=BET1L PE=1 SV=1

MADWARAQSPGAVEEILDRENKRMADSLASKVTRLKSLALDIDRDAEDQNRYLDGMDSDF  
TSMTSLLTGSVKRFSTMARSGQDNRKLLCGMAVGLIVAFFILSYFLSRAT

>sp|O15155|BET1\_HUMAN BET1 homolog OS=Homo sapiens GN=BET1 PE=1 SV=1

MRRAGLGEGVPPGNYGNYGYANSYGYSACEEENERLTESLSKVTAIKSLSIEIGHEVKTQ  
NKLLAEMDSQFDSTTGFLGKTMGKLIKLSRGSQTKLLCYMMLFSLFVFFIYWIILKLR

>sp|Q5H9J7|BEX5\_HUMAN Protein BEX5 OS=Homo sapiens GN=BEX5 PE=1 SV=1

MENVPKENKVVEKAPVQNEAPALGGGEYQEPGGNVKGVWAPPAPGFGEVDPNRLVDNIDM  
IDGDGDDMERFMEEMRELRRKIRELQLRYSRLILIGDPPHDDHDEFCLMP

>sp|P16278|BGAL\_HUMAN Beta-galactosidase OS=Homo sapiens GN=GLB1 PE=1 SV=2

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PRFYWKDRLLKMKMAGLNAIQTYVPWNFHEPWPGQYQFSEDHDVEYFLRLAHELGLLVIL  
RPGPYICAWEEMGGLPAWLEKESILLRSSDPDYLAAVDKWLGVLPLPKMKPLLYQNGGPV  
ITVQVENEYGSYFACDFDYLRFLQKRFRHHLGDDVVLFTTDGAHKTFCLKGALQGLYTTV  
DFGTGSNITDAFLSQRKCEPKGPLINSEFYTGWLDHWGQPHSTIKTEAVASSLYDILARG  
ASVNLVYFVGGTNFAYWNGANSPLYAAQPTSVDYDAPLSEAGDLTEKYFALRNIIQKFEKV  
PEGPIPPSTPKFAYGKVTLKLTVGAAALDILCPSPGIKSLYPLTFIQVKQHYGFVLYRT  
TLPQDCSNPAPLSSPLNGVHGRAYVAVDGIPQGVLERNNVITLNTGKAGATDLLVENM  
GRVNYGAYINDFKGLVSNLTLSSNILTDWTIFPLDTEAVRSHLGGWGHRSRSGHHDEAWA

HNSSNYTLPAFYMGNFSIPSGIPDLPQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQLT  
LFVPQHILMTSAPNTITVLELEWAPCSSDDPELCAVTFVDRPVI GSSVTYDHPSKPVEKR  
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>sp|Q04656|ATP7A\_HUMAN Copper-transporting ATPase 1 OS=Homo sapiens GN=ATP7A PE=1 SV=3

MDPSMGVNSVTISVEGMCNSCVWTIEQQIGKVN GVHHIKVSLEEKNATIIYDPKLQTPK  
TLQEAIDDMGFD AVIHNPDLPLVLTDTLFLTVTASLTLPWDHIQSTLLKTKGVTDIKIYP  
QKRTVAVTIIPSIVNANQIKELVPELSLDTGTLEKKSGACEDHSMAQAGEVVLKMKVEGM  
TCHSCTSTIEGKIGKLQGVQRIKVS LDNQEATIVYQPHLISVEEMKKQIEAMGFPAFVKK  
QPKYLKLG AIDVERLKNTPVKSSSEGSQQRSPSYTNDSTATFIIDGMHCKSCVSNIESTLS  
ALQYVSSIVVSLENRSAIVKYNASSVTPESLRKAIEAVSPGLYRV SITSEVESTSNPSS  
SSLQKIPLNVVSQPLTQETVINIDGMCNSCVQSI EGVISKKPGVKSIRVSLANSNGTVE  
YDPLL TSPETLRGAIEDMGFDATLSDTNEPLVVI AQPSSEMPLLTSTNEFYTKGMTPVQD  
KEEGKNSSKCYIQVTG MTCASCVANIERNLRREEGIYSILVALMAGKAEVRYNPAVIQPP  
MIAEFIRELGFGATVIENADEGDGVLELVVRG MTCASCVHKIESSLTKHRGILYCSVALA  
TNKAHIKYDPEIIGPRDIIHTIESLGFEASLVKKDRSASHLDHKREIRQWRRSFLVSLFF  
CIPVMGLMIYMMVMDH HFATLHHNQMSKEEMINLHSSMFLERQILPGLSVMNLLSFLLC  
VPVQFFGGWYFYIQA YKALKHKHTANMDVLIVLATTIAFAYSLIILLVAMYERAKVNPITF  
FDTPPMLFVFIALGRWLEHIAKGTSEALAKLISLQATEATIVTLDSNILLSEEQVDVE  
LVQRGDI IKVVPGGKFPVDGRVIEGHSMVDESLITGEAMPVAKKPGSTVIAGSINQNGSL  
LICATHVGADTTL SQIVKLVEEAQTSKAPIQQFADKLSGYFVPFIVFVS IATLLVWIVIG  
FLNFEIVETYFPGYNRSISRTETIIRFAFQASITVLCIACPCSLGLATPTAVMVGTVGA  
QNGILIKGGEPLEMAHKVKVVVFDKTGTITHGTPVVNQVKVLTESNRISHHKILAIVGTA  
ESNSEHPLGTAITKYCKQELDTETLTGTCIDFQVVP GCGISCKVTNIEGLLHKNNWNIEDN  
NIKNASLVQIDASNEQSSTSSSMIIDAQISNALNAQQYKVLIGNREWMIRNGLVINNDVN  
DFMTEHERKGR TAVLVAVDDELGLIAIADTVKPEAELAIHILKSMGLEVV LMTGDNSKT  
ARSIASQVGITKVFAEVLPSHKVAKVKQLQEEGKRVAMVGDGINDSPALAMANVGIAIGT  
GTDVAIEAADVVLIRNDLLDVVASIDLSRETVKRIRIN FVFALIYNLVGIP IAAGVFMP I  
GLVLQPWMGSAAMAASSVS VLVSSLFLKLYRKPTYESYELPARSQIGQKSPSEISVHVG I  
DDTSRNSPKLGLLDRI VNYSRASINLLSDKRSLSNVVTSEPDKHSLLVGDFREDDDTAL

>sp|P35670|ATP7B\_HUMAN Copper-transporting ATPase 2 OS=Homo sapiens GN=ATP7B PE=1 SV=4

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TVRILG MTCQSCVKSIEDRISNLKGIISMKVSLEQGSATVKYVPSV VCLQQVCHQIGDMG  
FEASIAEGKAASWPSRSLPAQEAVVKLRVEG MTCQSCVSSIEGKVRKLQGVVRVKVSLSN  
QEAVITYQPYLIQPEDLRDHVNDMGFEAAIKSKVAPLSLGPIDIERLQSTNPKRPLSSAN  
QNFNNSETLGHQGS HVVTLQLRIDGMHCKSCVLNIEENIGQLLG VQSIQVSLENKTAQVK  
YDP SCTSPVALQRAIEALPPGNFKVSLPDGAEGSGTDHRSSSSHSPGSPPRNQVQGT CST  
TLIAIAGMTCASCVHSIEGMISQLEGVQQISVSLAEGTATVLYNPSVISPEELRAAIEDM  
GFEASVVE SCSTNPLGNHSAGNSMVQTTDGTPTS VQEVAPHTGRLPANHAPDILAKSPQ  
STRAVAPQKCF LQIKG MTCASCVSNIE RN LQKEAGVLSVLVALMAGKAEIKYDPEVIQPL  
EIAQFIQDLGFEAAVMEDYAGSDGNIELTITG MTCASCVHNIESKLTRTNGITYASVALA  
TSKALVKFDPEIIGPRDIIKIIIEIGFHASLAQRNPNAHHL DHKMEIKQWKSFLCSLVF  
GIPVMALMIYMLIPSNEPHQSMVLDHNIIPGLSILNL IFFILCTFVQLLGGWYFYVQAYK  
SLRHR SANMDVLIVLATS IAYVYSLVILVVAEKAERSPVTFDTPPMLFVFIALGRWL  
EHLAKSKTSEALAKLSLQATEATVVTLGEDNLI IREEQVPMELVQRGDIVKVVPGGKFP

VDGKVLGNTMADESLITGEAMPVTKKPGSTVIAGSINAHGSVLKATHVGNDTTLAQIV  
KLVEEAQMSKAPIQQLADRFSGYFVPFIIIMSTLTLVWVIVIGFIDFGVVQRYFPNPNKH  
ISQTEVIIRFAFQTSITVLCIACPCSLGLATPTAVMVGTVAAQNGILIKGGKPLEMAHK  
IKTVMFDKTGTITHGVPRVMRLLLDGVATLPLRKVLAVVGTAEEHPLGVAVTKYCK  
EELGTETLGYCTDFQAVPGCGIGCKVSNVEGILAHSERPLSAPASHLNEAGSLPAEKDAV  
PQTFSVLIGNREWLRRNGLTISSDVSDAMTDHEMKGQTALVAIDGVLCGMIAIADAVKQ  
EAALAVHTLQSMGVDVVLITGDNRKRTARAIATQVGINKVFAEVLPSHKVAKVQELQNKGK  
KVAMVGDGVDNSPALAQADMGVAIGTGTDAIEAADVVLIRNDLLDVVASIHLSKRTVRR  
IRINLVLALIYNLVGIPIAAGVFMPIGIVLQPWMGSAAMAASSVSVLSSLQLKCYKKPD  
LERYEAQAHGHMKPLTASQVSVHIGMDDRWRDSPRATPWDQVSYVSQVSLSSLTSDKPSR  
HSAAADDDGDKWSLLNNGRDEEQYI

>sp|P48047|ATPO\_HUMAN ATP synthase subunit O, mitochondrial OS=Homo sapiens GN=ATP50 PE=1  
SV=1

MAAPAVSGLSRQVRCFSTSVMRPFALVRPPVQVYVIEGRYATALYSAASKQNKLEQVEK  
ELLRVAQILKEPKVAASVLNPNYVKRSIKVKSNDITAKERFSPLTTNLINLLAENGRLSN  
TQGVVSFAFSTMMSVHRGEVPCTVTSASPLEEATLSELKTVLKSFLSQGQVLKLEAKTDPS  
ILGGMIVRIGEKYVDMSVKTKIQKLGRAMREIV

>sp|Q8WXX7|AUTS2\_HUMAN Autism susceptibility gene 2 protein OS=Homo sapiens GN=AUTS2 PE=1  
SV=1

MDGPTRGHGLRKKRRSRSQRDRERRSRGGLGAGAAGGGGAGRTRALSLASSSGSDKEDNG  
KPPSSAPSRPRPRRKRRESTSAEEDIIDGFAMTSFVTFEALEKDVALKPQERVEKQTP  
LTKKKREALTNGLSFHKKSRLSHPHHYSSDRENDRLCQHLGKRKKMPKALRQLKPGQN  
SCRDSSESASGESKGFHRSSSRERLSDSSAPSSLGTGYFCDSDSDQEEKASDASSEKLF  
NTVIVNKDPELGVGTLPEDSDAGPIVPKISGLERSQEKSDCCKEPIFEPVVLKDCPCP  
QVAQPIQPQTEPQLRAPSPDPLVQRTEAPPQPPPLSTQPPQGPPEAQLQAPQPQVQR  
PPRPQSPTQLLHQNLPPVQAHPSAQSLSQPLSAYNSSSLSLNLSSSRSTPAKTQPAPP  
HISHHPSASPFPLSLPNHSPLHSFTPTLQPPAHSHHPNMFAPPTALPPPPPLTSGSLQVA  
GHPAGSTYSEQDILRQELNTRFLASQSADRGASLGPPPYLRTEFHQHQHQHQHTHQTHQ  
HTFTPFPHAIPTAIMPTAPPMPFDKYPTKVDPFYRHSFLHSYPPAVSGIPPMIPTGPF  
GSLQGAFQPKTSNPIDVAARPGTVPHLLQKDPRLTDPFRPMLRKPGKWCAMHVHIAWQI  
YHHQQKVKKQMSDPHKLDFGLKPEFLSRPPGPSLFGAIIHHPDLARPSTLFSAGAHP  
TGTPFGPPPHSNFLNPAAHLEPFNRPSTFTGLAAGGNAFGGLGNPSVTPNSMFGHKDG  
PSVQNFNPNHEPWNRLHRTPPSFPTPPPWLKPGELERSASAAHNRDRDVKRDSSVSKD  
DKERESVEKRHSSHPSPAPVLPVNALGHTRSSTEQIRAHNLNTEAREKDKPKERERDSES  
RKDLAADEHKAKEGHLPEKDGHGHEGRAAGEEAKQLARVPSPYVRTPVVESARPNTSSR  
EAEPRKGEPAYENPKKSSEVKVKEERKEDHDLPEAPQTHRASEPPPPNSSSVHPGPLA  
SMPMTVGVTGIHPMNSISSLDTRMMTPFMGISPLPGERFPYPSFHWDPIRDPLRDPYR  
ELDIHRRDPLGRDFLLRNDPLHRLSTPRLYEADRSFRDREPHDYSHHHHHHHHPLSVDPR  
REHERGGHLDERERLHMLREDYEHTRLHSVHPASLDGHLPHPSLITPGLPSMHYPRISPT  
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>sp|O75366|AVIL\_HUMAN Advillin OS=Homo sapiens GN=AVIL PE=1 SV=3

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FWIGKDSSQDEQSCAAIYTTQLDDYLGGSPVQHREYQYHESDTFRGYFKQGIYKQGGVA  
SGMKHVVETNTYDVKRLLHVKGKRNIRATEVEMSWDSFNRGDVFLDLGKVI IQWNGPESN

SGERLKAMLLAKDIRDRERGGRAKIGVIEGDKEAASPELMKVLQDTLGRRSIIKPTVPDE  
IIDQKQKSTIMLYHISDSAGQLAVTEVATRPLVQDLLNHDDCYILDQSGTKIYVWKGKGA  
TKAEKQAAMSKALGFIKMSYSPSTNVETVNDGAESAMFKQLFQKWSVKDQTMGLGKTFS  
IGKIAKVFQDKFDVTLHTKPEVAAQERMVDDGNGKVEVWRIENLELVPVEYQWYGGFFYG  
GDCYLVLTYTEVNGKPHHILYIWQGRHASQDELAASAYQAVEVDRQFDGAAVQVRVMGT  
EPRHFMAIFKGKLVIFEGGTSRKGNAPDPPVRLFQIHGNDKSNTKAVEVPAFASSLSN  
DVFLRLRTQAEHYLWYKGSSGDERAMAKELASLLCDGSENTVAEGQEPAEFWDLLGGKTP  
YANDKRLQQEILDVQSRLFEC SNKTGQFVTEITDFTQDDL NPTDVMLLDTWDQVFLWIG  
AEANATEKESALATAQQYLHTHPSGRDPDTPILIIKQGFEPPIFTGWFLAWDPNIWSAGK  
TYEQLKEELGDAAI MRITADMKNATLSLNSNDSEPKYYP IAVLLKNQNQELPEDVNP AK  
KENYLSEQDFVSVFGITRGQFAALPGWKQLQMKKEKGLF

>sp|POC853|BAAS2\_HUMAN Putative uncharacterized protein BAALC-AS2 OS=Homo sapiens  
GN=BAALC-AS2 PE=5 SV=1

MSLKS WHPQSKTRKVGASEGNPQWGS GSMEAPLLSSFLPPLASEAELTGNTWFLHRCSCI  
LNLEESMDSWDGAWWGVSLPRRAPFLIYGSDGPWCTQAGFPGWGH

>sp|Q14032|BAAT\_HUMAN Bile acid-CoA:amino acid N-acyltransferase OS=Homo sapiens GN=BAAT  
PE=1 SV=1

MIQLTATPVSALVDEPVHIRATGLIPFQMVSFQASLEDENGDMFYSAHYRANEFGEVDL  
NHASSLGGDYMVGHPMGLFWSLKPEKLLTRLLKRDVMNRPFQVQVKLYDLELIVNNKVAS  
APKASLT LERWYVAPGVTRIKVREGRLRGALFLPPGEGLPFPGVIDLFGGLGGLLEFRASL  
LASRGFASLALAYHNYEDLPRKPEVTDLEYFEEAANFLLRHPKVFGSGVGVSVCQGVQI  
GLSMAIYLKQVTATV LINGTNFPFGIPQVYHGQIHQPLPHSAQLISTNALG LLELYRTFE  
TTQVGASQYLFPIEEAQGQFLFIVGEGDKTINSKAHAEQAIGQLKRHGKNNWTLLSYPGA  
GHLIEPPYSPLCCASTTHDLRLHWGGEVIPHAAAQEHAWKEIQRFLRKHLIPDVTSQL

>sp|Q99933|BAG1\_HUMAN BAG family molecular chaperone regulator 1 OS=Homo sapiens GN=BAG1  
PE=1 SV=4

MAQRGGARRPRGDRERLGSRLRALRPGREPRQSEPPAQRGPPPSGRPPARSTASGHRPT  
RGAAAGARRPRMKKTRRRSTRSEELTRSEELT LSEEATWSEEATQSEEATQGEEMNRSQ  
EVTREESTRSEEV TREEMAAAGLTVTVTHSNEKHD LHVTSQQGSSEP VVQDLAQVVEEV  
IGVPQSFQKLIFKGKSLKEMETPLSALGIQDGCRVMLIGKKNSPQEEVELKKLKHLEKSV  
EKIADQLEELNKELTG IQQGFLPKDLQAEALCKLDRRVKATIEQFMKILEEIDTLILPEN  
FKDSRLKRKGLVKKVQAFLAECDTVEQNICQETERLQSTNFALAE

>sp|Q9UMQ3|BARX2\_HUMAN Homeobox protein BarH-like 2 OS=Homo sapiens GN=BARX2 PE=2 SV=3

MHCHAE LRLSSPGQLKAARRRYKTFMIDEILSKETCDYFEKLSLYSVCPSLVVRPKPLHS  
CTGSPSLRAYPLLSVITRQPTVISHLVPATPGIAQALSCHQVTEAVSAEAPGGEALASSE  
SETEQPTPRQKKPRRSRTIFTELQLMGLEKKFQKQKYLSTPDRLDLAQS LGLTQLQVKTW  
YQNRMKWKMMVLKGGQEAPTKPKGRPKNSIPTSEEIEAEKMN SQAQGGEQLEPSQGG  
EELCEAQEPKARDVPLEMAEPPDPPQELIPSEPPPLS

>sp|Q6ZU67|BEND4\_HUMAN BEN domain-containing protein 4 OS=Homo sapiens GN=BEND4 PE=2 SV=3

MEEEMQPAEEGSPVKIYKQSPYSVLKTFPSKRPALAKRYERPTLVELPHVRAPPPPPP  
PFAPHAAVSISSEPPPPQFQAQSSYP PGRAAAAASSSSP SCTPATSQGHLRTPAQPP  
PASPAASSSSSFAAVRYGPGAAAAAGTGGTGS DSASLELSAESRMILD AFAQQCSRVL S  
LLNCGGKLLDSNHSQSMISCVKQEGSSYNERQEHCHIGKVHSQTS DNVDIEMQYMQRKQ  
QTS AFLRVFTDSLQNYLLSGSFPTPNPSSASEYGH LADV DPLSTSPVHTLGGWTS PATSE

SHGHPSSSTLPEEEEEDEEGYCPRCQELEQEVISLQQENEELRRKLESIPVPCQTVLDY  
LKMVLQHHNQLLIPQPADQPTGSKQLLNYPVYITSKQWDEAVNSSKKDGRLLRYLIR  
FVFTTDELKYSCGLGKRKRSVQSGETGPERRPLDPVKVTCLEFIRMHCTSNPDWWMPSE  
EQINKVFSDAVGHARQGRAVGTFLLHNGGSFYEGIDHQASQDEVFNKSSQDGSGD

>sp|Q8N7W2|BEND7\_HUMAN BEN domain-containing protein 7 OS=Homo sapiens GN=BEND7 PE=1 SV=2

MEFSEKRSRKSQSFKLVSRDYHHEVYKIEFNSNDVNGEAKETQPIFLGDESMEIKKQIT  
GMRLLNDSTGRIYQVRGKEGKLEKEEPQDLVLVPPRLNSSAEAPQSLHPSSRGVWNE  
PPQSGQFSGQYGRSRTFQSQPHPTTSSNGELPVVNSSAGSNCTCNCQSTLQAILQELK  
TMRKLMQIQAVGTQNRQPPISLICSQRTAVSRKRNNKKKVPPKTVEPLTVKQKPSGSEM  
EKKSVAESELALQAAEHTSPEESRVLGFGIVLESPSSDPEVQLAEGFDVFMPSQLDSI  
LSNYTRSGSLLFRKLVCAFFDDKTLANSLPNGKRKRGLNDRKGLDQNIIVGAIKVFTEKY  
CTANHVDKLPGRDWWQILQDQIKLARRRLKRGSEIADSDERLDGIALPPTGACGGPCTV  
LPGGSAAVTLVLQSSPQTMSQEKQMAEPWEEQHLVLLNNLTRDRAETGALSQTSQDFKH  
HSFLITQVSATLHHQRGIRNFPPTGSAKSLTLHISCLSL

>sp|076090|BEST1\_HUMAN Bestrophin-1 OS=Homo sapiens GN=BEST1 PE=1 SV=1

MTITYTSQVANARLGSFSRLLLCWRGSIYKLLYGFLIFLLCYIIRFIYRLALTEEQQL  
MFEKLTLYCDSYIQLIPISFVLGFYVTLVTRWVNQYENLPWPDRMLSLVSGFVEGKDEQ  
GRLLRRTLIRYANLGNVLILRSVSTAVYKRFPSAQHLVQAGFMTPAEHKQLEKLSLPHNM  
FWVPWWFANLSMKAWLGGRIRDPILLQSLNEMNTLRTQCGHLYAYDWISIPLVYTQVV  
TVAVYSFFLTCLVGRQFLNPAKAYPGHELDLVVPVFTFLQFFFYVGLKVAEQLINPFGE  
DDDDFETNWIVDRLQVSLLADEMHDLPMEPDMYWNKPEPQPPYTAASAQFRRASF  
GSTFNISLNKEEMEFQPNQEDEEDAHAGIIGRFLGLQSHDHHPPRANSRTKLLWPKRESL  
LHEGLPKNHKAAKQNVRGQEDNKAWKLKAVDAFKSAPLYQRPGYYSAPQTPLSPTPMFFP  
LEPSAPSKLHSVTGIDTKDKSLKTVSSGAKKSFELLESSESGALMEHPEVSQVRRKTVEFN  
LTMPEIPENHLKEPLEQSPTNIHTTLKDMDPYWALENRDEAHS

>sp|Q00994|BEX3\_HUMAN Protein BEX3 OS=Homo sapiens GN=BEX3 PE=1 SV=1

MANIHQENEEMEPMQNGEEDRPLGGGEGHQAGNRRGQARRLAPNFRWAIPNRQINDGM  
GGDGDMEIFMEEMREIRRKRELQLRNCLRIIMGELSNHHDHDEFCLMP

>sp|Q9NZS9|BFAR\_HUMAN Bifunctional apoptosis regulator OS=Homo sapiens GN=BFAR PE=1 SV=1

MEEPQKSYVNTMDLERDEPLKSTGPQISVSEFSCHCCYDILVNPTTLNCGHSFCRHCLAL  
WWASSKTECPECREKWEFGPKVSILLRDAIEKLFPDAIRLRFEDIQQNNDIVQSLAAFQ  
KYGNDQIPLAPNTGRANQMGGGFFSGVLTALTGVAVVLLVYHWSRESEHDLLVHKAVA  
KWTAEVVVLWLEQLGPWASLYRERFLSERVNGRLLLTLEEFSTPYTIENSSHRRAIL  
MELERVKALGVKPPQNLWEYKAVNPGRSLFLLYALKSSPRLSLLYLYLFDYTDFTLPFIH  
TICPLQEDSSGEDIVTKLLDLKEPTWKQWREFLVKYSFLPYQLIAEFAWDWLEVHYWTSR  
FLIINAMLLSVLELFSFWRIWSRSELKTVQRMWSHFVKVSTQGLFVAMFWPLIPQFVCN  
CLFYWALYFNPIINIDLVKELRRLETQVL

>sp|Q12934|BFSP1\_HUMAN Filensin OS=Homo sapiens GN=BFSP1 PE=1 SV=3

MYRRSYVFQTRKEQYEHAEASRAAEPPERPADEGWAGATSLAALQGLGERVAHVQRARA  
LEQRHAGLRRQLDAFQRLGELAGPEDALARQVESNRQVRDLEAERARLERQGTEAQRAL  
DEFRSKYENECQQLLKEMLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKKNL  
LEVQTYISILQQIIHTTPASIVTSGMREEKLLTEREVAALRSQLEEGREVLVSHLQAQRV  
ELQAQTTTLEQAIKSAHECYDDEIQLYNEQIETLRKEIEETERVLEKSSYDCRQLAVAQQ  
TLKNELDRYHRIIEIEGNRLTSAFIETPIPLFTQSHGVSLSSTGSGGKDLTRALQDITAAK



PRQKALPKNVPRRKEIITKDKTNGALEDAPLKGLEDTKLVQVVLKEESESKEFESESKEVS  
PLTQEGAPEDVPDGGQISKGFGLYRKVKKEKVRSPKEPETPTELYTKERHVLVTGDANYV  
DPRFYVSSITAKGGVAVSVAEDSVLYDGGVEPSPEPKPLENGQVGLQEKEDGQPIDQQ  
PIDKEIEPDGAIEGPEEKREGEERDEESRRPCAMVTPGAEEPSIPEPPKPAADQDGAEV  
LGTRSRSLPEKGPPKALAYKTVEVVESIEKISTESIQTYEETAVIVETMIGKTKSDKKKS  
GEKSS

>sp|Q86UB2|BIVM\_HUMAN Basic immunoglobulin-like variable motif-containing protein OS=Homo sapiens GN=BIVM PE=2 SV=3

MPNVAETERSNSDNGEHKSERKSPEENLQGAVKSFCTSASGAPLGPKGDGHYPWSCPVT  
HTREKIYAICSDYAFLNQATSIYKTPNPSRSPCLPDSTLSAGNNSRYIGIPTSTSEII  
YNEENSLENLSNSLGLPLAWEIDKSEFDGVTNSKHKSGNAKKQVSKRKTSDDKKGRYQK  
ECPQHSPLEDIKQRKVLDLRRWYCISRPQYKTS CGISSLISCWNFLYSTMGAGNLPITQ  
EEALHILGFQPPFEDIRFGPFTGNTTLMRWFRQINDHFHVKGCSYVLYKPHGKNKTAGET  
ASGALSKLTRGLKDESLAYIYHCQNHYFCPIGFEATPVKANKAFSRGPLSPQEVEYWILI  
GESSRKHPAIIHCKKWADIVTDLNTQNPEYLDIRHLERGLQYRKTKKVGGNLHCIIAFQRL  
NWQRFGLWNFPFGTIRQESQPPTHAQGIKSESEDNISKQKHGRLGRSFSASFHQDSAWK  
KMSSIHERRNSGYQGYSDDYDND

>sp|P46663|BKRB1\_HUMAN B1 bradykinin receptor OS=Homo sapiens GN=BKRB1 PE=1 SV=3

MASSWPPELQSSNQSLFPQNATACDNAPEAWDLLHRVLPFTFIISICFFGLGNLFVLL  
VLLPRRQLNVAEIIYLANLAASDLVFLVGLPFWAENIWNQFNWPFGALLCRVINGVIKAN  
LFISIFLVVAISQDRYRVLVHPMASRRQQRRRQARVTCVLIWVVGLLSIPTFLLRSIQA  
VPDLNITACILLLPHEAWHFARIVELNILGFLLPLAAIVFFNYHILASLRTREEVSRTRC  
GGRKDSKTTALILTLVVAFLVCWAPYHFFAFLEFLFQVQAVRGCFWEDFIDLGLQLANFF  
AFTNSSLPNVIYVFGRLFRKTVWELYKQCTPKSLAPISSSHRKEIFQLFWRN

>sp|Q6QNY1|BLIS2\_HUMAN Biogenesis of lysosome-related organelles complex 1 subunit 2  
OS=Homo sapiens GN=BLOC1S2 PE=1 SV=1

MAAAAEGLATRSDEPARDDAAVETAEEAKEPAEADITELCRDMFSKMATYLTGELTATS  
EDYKLENMNKLTSLKYLEMKDIAINISRNLDLNQKYAGLQPYLDQINVIEEQVAALEQ  
AAYKLDAYSKKLEAKYKKLEKR

>sp|O00327|BMAL1\_HUMAN Aryl hydrocarbon receptor nuclear translocator-like protein 1  
OS=Homo sapiens GN=ARNTL PE=1 SV=2

MADQRMDISSTISDFMSPGPTDLLSSSLGTSGVDCNRKRKGSSTDYQESMDTDKDDPHGR  
LEYTEHQGRIKNAREAHSQIEKRRRDKMNSFIDELASLVPTCNAMSRKLDKLTVLRLMAVQ  
HMKTLRGATNPYTEANYKPTFLSDDELKHLILRAADGFLFVVGCDRGKILFVSESVFKIL  
NYSQNDLIGQSLFDYLHPKDIAKVKEQLSSSDTAPRERLIDAKTGLPVKTDITPGPSRLC  
SGARRSFFCRMKCNRPVSKVEDKDFPSTCSKKKADRKSFCTIHSTGYLKSWPPTKMGLDE  
DNEPDNEGCNLSCLVAIGRLHSHVVPQPVNGEIRVKSMEYVSRHAIDGKFVFDQRATAI  
LAYLPQELLGTSCYEYFHQDDIGHLAECHRQVLQTREKITTNCYKFKIKDGSFITLRSRW  
FSFMNPWTKEVEYIVSTNTVVLANVLEGGDPTFPQLTASPHSMDSMLPSGEGGPKRTHPT  
VPGIPGGTRAGAGKIGRMIAEEIMEIHRIRGSSPSSCGSSPLNITSTPPPDASSPGGKKI  
LNGGTPDIPSSGLSGQAQENPGYPYSDSSSILGENPHIGIDMIDNDQSSSPSNDEAAM  
AVIMSLLEADAGLGGPVDFSDLPWPL

>sp|Q8WYA1|BMAL2\_HUMAN Aryl hydrocarbon receptor nuclear translocator-like protein 2  
OS=Homo sapiens GN=ARNTL2 PE=1 SV=2

MAEEEEAAAGGKVLREENQCIAPVVSSRVSPGTRPTAMGSFSSHMTFPRKRKGSDDPS  
QSGIMTEKVVEKLSQNPLTYLLSTRIEISASSGSRVEDGEHQVKMAFREAHSQTEKRRR  
DKMNNLIEELSAMIPQCNPMARKLDKLTVLRMAVQHLRSLKGLTNSYVGSNYRPSFLQDN  
ELRHLILKTAEGFLFVVGECERGKILFVSKSVSKILNYDQASLTGQSLFDFLHPKDVAKVK  
EQLSSFDISPREKLIDAKTGLQVHSNLHAGRTRVYSGSRRSFFCRIKSCKISVKEEHGCL  
PNSKKKEHRKFYTIHCTGYLRSWPPNIVGMEEERNSSKKDNSNFTCLVAIGRLQPYIVPQN  
SGEINVKPTFEITRFAVNGKFVYVDQRATAILGYLPQELLGTSCYEYFHQDDHNNLTDKH  
KAVLQSKEKILTDSYKFRAKDGFSFVTLKSQWFSFTNPWTKELEYIVSVNTLVLGHSEPGE  
ASFLPCSSQSSEESSRQSCMSVPGMSTGTVLGAGSIGTDIANEILDQLRLQSSSYLDDSS  
PTGLMKDTHTVNCRSMSNKELFPPSPSEMGELEATRQNQSTVAVHSHEPLLSDGAQLDFD  
ALCDNDDTAMAAFMNYLEAEGGLGDPGDFSIDIQWTL

>sp|P18075|BMP7\_HUMAN Bone morphogenetic protein 7 OS=Homo sapiens GN=BMP7 PE=1 SV=1

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ILGLPHRPRPHLQKGKHSAPMFMLDLYNAMAVEEGGGGGQGSYPYKAVFSTQGPPLAS  
LQDSHFLTADAMVMSFVNLVEHDKEFFHPRYHHREFRDLSKIPEGEAVTAAEFRIYKDY  
IRERFDNETFRISVYQVLQEHLGRESDFLLDSRTLWASEEGWLVFDITATSNHWVNP  
HNLGLQLSVETLDGQSINPKLAGLIGRHGPQNKQPFMVAFKATEVHFRSIRSTGSKQRS  
QNRSKTPKNQEALRMANVAENSSDQRQACKKHELYVSFRDLGWQDWIIAPEGYAAAYCE  
GECAPPLNSYMNATNHAIVQTLVHFINPETVPKPCCAPTQLNAISVLYFDDSSNVILKKY  
RNMVVRACGCH

>sp|O60238|BNIP3L\_HUMAN BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like  
OS=Homo sapiens GN=BNIP3L PE=1 SV=1

MSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMSSNGNDNGNGKNGGLEHV  
PSSSIHNGDMEKILLDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSSQS  
EEEVVEGEKEVEALKKSADWSDWSSRPENIPPKFHFHRHPKRSVLSMRKSGAMKKGGI  
FSAEFLKVFIPSLFLSHVLALGLGIYIGKRLSTPSASTY

>sp|Q12982|BNIP2\_HUMAN BCL2/adenovirus E1B 19 kDa protein-interacting protein 2 OS=Homo  
sapiens GN=BNIP2 PE=1 SV=1

MEGVELKEEWQDEDFPIPLPEDDSIEADILAITGPEDQPGSLEVNGNKVRKKLMAPDISL  
TLDPSDGSVLSDDLDESGEIDLDGLDTPSENSNEFEWEDDLPKPKTTEVIRKGSITEYTA  
AEEKEDGRRWRMFRIGEQRHVRDMKATIEPYKKVISHGGYYGDGLNAIVFVAVCFMPRESSQ  
PNYRYLMDNLFKYVIGTLELLVAENYMIYVNLGATTRRKMPSLGWLRKCYQQIDRRRLRKN  
LKSLIIVHPSWFIRTLLAVTRPFISSKFSQKIRYVFNLAELAELVPMEYVGIECIKQVD  
QELNGKQDEPKNEQ

>sp|Q7Z465|BNIPL\_HUMAN Bcl-2/adenovirus E1B 19 kDa-interacting protein 2-like protein  
OS=Homo sapiens GN=BNIPL PE=1 SV=1

MGTIQEAGKKTVDGVREIAEAPELGAALRHGELELKEEWQDEEFPRLLPEEAGTSEDPED  
PKGDSQAAAAGTPSTLALCGQRPMPKRLSAPELRLSLTKGPGNDGASPTQSAPSSPDGSSD  
LEIDELETSPDSEQLDSGHEFEWEDELPRAEGLGTSETAERLGRGCMWDVTGEDGHHWRV  
FRMGPREQRVDMTVEPYKKVLSHGGYHGDGLNAVILFASCYLPRSSIPNYTYVMEHLFR  
YMGVTLELLVAENYLLVHLSGGTSRAQVPPLSWIRQCYRTLDRRLRKNLRLVHVHATWY  
VKAFLALLRPFISSKFTRKIRFLDSLGEAQLISLDQVHIPEAVRQLDRDLHGSGGT

>sp|P48201|AT5G3\_HUMAN ATP synthase F(0) complex subunit C3, mitochondrial OS=Homo sapiens  
GN=ATP5G3 PE=2 SV=1

MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQREF  
QTS AISRDIDTA AKFIGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILG  
FALSEAMGLFCLMVAFLILFAM

>sp|P98198|AT8B2\_HUMAN Phospholipid-transporting ATPase ID OS=Homo sapiens GN=ATP8B2 PE=1  
SV=2

MTVPKEMPEKWARAQAPPSWSRKKPSWGTEEEERRARANDREYNEKFQYASNCIKTSKYNI  
LTFLPVNLFEEQFEVANTYFLFLILQLIPQISSLSWFTTIVPLVLVLTITAVKDATDDY  
FRHKS DNQVNNRQSQVLINGILQQEQWMNVCVGDI IKLENNQFVAADLLLLSSSEPHGLC  
YIETAELDGETNMKVRQAIPVTSELGDISKLAKFDGEVICEPPNNKLDKFSGTLYWKENK  
FPLSNQNM LLRGCVLRNTEWCFGLVIFAGPDTKLMQNSGRTKFKRTSIDRLMNTLV LWIF  
GFLVCMGVILAI GNAIWEHEVGMRFQVYLPWDEAVDSAFFSGFLSFWSYIIILNTVVPIS  
LYVSVEVIRLGHSYFINWDKKMFCMKKRTPAEARTTTLNEELGQVEYIFSDKTGTLTQNI  
MVFNKCSINGHSYGDVFDVLGHKAELGERPEPVDFSFNPLADKKFLFWDPSLLEAVKIGD  
PHTHEFFRLLSLCHTVMSEEKNEGELYYKAQSPDEGALVTAARNFGFVFRSRTPKTITVH  
EMGTAITYQLLA ILDFNNIRKMSVIVRNPEGKIRLYCKGADTILLDRLHHSTQELLNTT  
MDHLNEYAGEGLRTLVLAYKDLDEEYEEWAERRLQASLAQDSREDRLASIYEEVENMM  
LLGATAIEDKLQQGPETIALLTLANIKIWVLTGDKQETAVNIGYSCKMLTDDMTVEFIV  
TGHTVLEVREELRKAREKMMDSRSVGNFTYQDKLSSSKLTSVLEAVAGEYALVINGHS  
LAHALEADMELEFLETACACKAVICCRVTP LQKAQVVELVKYKKAVTLAIGDGANDVSM  
IKTAHIGVGISGQEGIQAVLASDYSFSQFKFLQRLLLVHGRWSYLRMCKFLCYFFYKNFA  
FTMVHFVWFGFFCGFSAQTVYDQYFITLYNIVYTSLPVLAMGVFDQDVPEQRSMEYPKLYE  
PGQLNLLFNKREFFICIAQGIYTSVLMFFIPYGVFADATRDDGTQLADYQSFAVTVATSL  
VIVVSQIGLDTGYWTAINHFFIWGSLAVYFAILFAMHSNGLFDMFPNQFRFVGNAQNTL  
AQPTVWLTIVLTTVVCIMPVVAFRFLRLNLKPDLSDTVRYTQLVRKKQKAQHRCMRRVGR  
TGSRRSGYAFSHQEGFGELIMSGKNMRLSSLALSSFTTRSSSWIESLRKKKSDSASSPS  
GGADKPLKG

>sp|Q99941|ATF6B\_HUMAN Cyclic AMP-dependent transcription factor ATF-6 beta OS=Homo  
sapiens GN=ATF6B PE=1 SV=2

MAELMLLSEIADPTRFFTDNLLSPEDWGLQNSTLYSGLDEVAEEQTQLFRCPEQDVPFDG  
SSLDVGM DVSPSEPPWELLPIFPDLQVKSEPSSPCSSSSLSSESSLSTEPSSEALGVGE  
VLHVKTESLAPPLCLLGDDPTSSFETVQINVIPTSDDSSDVQTKIEVSPCSSVNSEASL  
LSADSSQAFIGEEVLEVKTESLSPSGCLLWDVPAPSLGAVQISMGPSLDGSSGKALPTR  
KPPLQPKPVVLTTPMPSPRAVPPSTTVLLQSLVQPPPVPVLIQGAIQVQPEGPAPSLP  
RPERKSIVPAPMPGNSCPPEVDAKLLKRQQRMIKNRESACQSRRKKKEYLQGLEARLQAV  
LADNQLRRENAALRRRLEALLAENSELKLGSGRKVVCMVFLLFI AFNFGPVSISEPP  
SAPISPRMNKGEPQPRRHLLGFSEQEPVQGV EPLQGSSQGPKEPQPSPTDQPSFSNLTA  
PGGAKELLRLDLQFLSSDCRHFNRTESLRLADELSGWVQRHQRGRRKIPQRAQERQKS  
QPRKKSPPVKAVPIQPPGPPERDSVGQLQLYRHPDRSQPAFLDAIDRREDTFYVVSFRRD  
HLLLPATSHNKTSRPMKSLVMPAMAPNETLSGRGAPGDYEMMQIECEVMDTRV IHIKTS  
TVPPSLRKQPSPTPGNATGGPLPVSAASQAHQASHQPLYLNHP

>sp|O94817|ATG12\_HUMAN Ubiquitin-like protein ATG12 OS=Homo sapiens GN=ATG12 PE=1 SV=1

MAEEPQSVLQLPTSIAGGEGLTDVSPETTTPEPPSSAAVSPGTEEPAGDTKKKIDILLK  
AVGDTPI MKTKKWAVERTRTIQGLIDFIKKFLKL VASEQLFIYVNQSFAPSPDQEVGTLY  
ECFGSDGKLVLHYCKSQAWG

>sp|075143|ATG13\_HUMAN Autophagy-related protein 13 OS=Homo sapiens GN=ATG13 PE=1 SV=1  
METDLNSQDRKDLDFIKFFALKTVQVIVQARLGEKICTRSSSSPTGSDWFNLAIKDIPE  
VTHEAKKALAGQLPAVGRSMCVEISLKTSEGDSELEIWCLEMNEKCDKEIKVSYTVYNR  
LSLLKSLLAITRTPAYRLSRKQGHEYVILYRIYFGEVQLSGLGEGFQTVRVGTGTPV  
GTITLSCAYRINLAFMSTRQFERTPPIMGIIIDHFVDRPYPPSSPMHPCNYRTAGEDTGV  
IYPSVEDSQEVCTTSFSTSPPSQLSSSRLSYQPAALGVGSADLAYPVVFAAGLNATHPHQ  
LMVPGKEGGVPLAPNQPVHGTQADQERLATCTPSDRTHCAATPSSSEDTETVSNSSEGRA  
SPHDVLETIFVRKVGAFVNKPINQVTLTSLDIPFAMFAPKNLELEDTPMVNPPDSPETE  
SPLQGSLSHSDGSSGSSGNTHDDFVMIDFKPAFSKDDILPMDLGTIFYREFQNPPQLSSLS  
IDIGAQSMAEDLDSLPEKLAVHEKNVREFDAFVETLQ

>sp|P54710|ATNG\_HUMAN Sodium/potassium-transporting ATPase subunit gamma OS=Homo sapiens  
GN=FXD2 PE=1 SV=3  
MTGLSMDGGGSPKGDVDPFYDYETVRNGGLIFAGLAFIVGLLILLSRRFRCCGNGKKRRQ  
INEDEP

>sp|000244|ATOX1\_HUMAN Copper transport protein ATOX1 OS=Homo sapiens GN=ATOX1 PE=1 SV=1  
MPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDLPNKKVCIESEHSMDTLLATLKKTGK  
TVSYLGLE

>sp|P56134|ATPK\_HUMAN ATP synthase subunit f, mitochondrial OS=Homo sapiens GN=ATP5J2  
PE=1 SV=3  
MASVGECPPAPVPVKDKLLEVKLGELPSWILMRDFSPSGIFGAFQRGYYRYNKYINVKK  
GSISGITMVLACYVLFSYSFSYKHLKHERLRKYH

>sp|Q6ZMB0|B3GN6\_HUMAN Acetylgalactosaminyl-0-glycosyl-glycoprotein beta-1,3-N-  
acetylglucosaminyltransferase OS=Homo sapiens GN=B3GNT6 PE=1 SV=2  
MAFPCCRSLTAKTLACLLVGVSFALQQWFLQAPRSPREERSQEETPEGPTDAPAADEP  
PSELVPGPPCVANASATADFEQLPARIQDFLRHCRHFLLWDAPAKCAGGRGVFLL  
LAVKSAPEHYERRELIRRTWGQERSYGGRPVRRLLFLLGTPGPEDEARAERLAELVALEAR  
EHGDVLQWAFADTFLNLTLLHLHLLDWAARCPHARFLLSGDDDFVHTANVVRFLQAQP  
PGRHLFSGQLMEGSVPVIRDSWSKYFVPPQLFPGSAYPVYCSGGFLLSGPTARALRAAAR  
HTPLFPIDDAYMGMCLERAGLAPSGHEGIRPFQVQLPGAQQSSFDPCMYRELLLVHRFAP  
YEMLLMWKALHSPALSCDRGHRVS

>sp|043505|B4GA1\_HUMAN Beta-1,4-glucuronyltransferase 1 OS=Homo sapiens GN=B4GAT1 PE=1  
SV=1  
MQMSYAIRCAFYQLLLAALMLVAMLQLLYLSLLSGLHGQEEQDQYFEFFPPSPRSVDQVK  
AQLRTALASGGVLDASGDYRVYRGLLKTMDPNDVILATHASVDNLLHLSGLLERWEGPL  
SVSVFAATKEEAQLATVLAYALSSHCPDMRARMVAMHLVCPSRYEAAVPDPREPGEFALLR  
SCQEVFDKLARVAQPGINYLGTNVSYPNNLLRNLAEGANYALVIDVDMVPSEGLWRGL  
REMLDQSNQWGTALVVPFAFERRARRMPMNKNELVQLYQVGEVRPFYGLCTPCQAPT  
YSRWVNLPEESLLRPAYVVPWQDPWEPFYVAGGKVPTFDERFRQYGFNRISQACELHVAG  
FDFEVLNEGFLVHKGFKEALKFHPQKEAENQHKNILYRQFKQELKAKYPNSPRRC

>sp|043286|B4GT5\_HUMAN Beta-1,4-galactosyltransferase 5 OS=Homo sapiens GN=B4GALT5 PE=2  
SV=1  
MRARRGLRLPRRSLAALFFSLSSSLYFVYVAPGIVNTYLFMMQAQGILIRDNVRTI  
GAQVYEQVLRSAKRNSSVNDSDYPLDLNHSETFLQTTTFLPEDFTYFANHTCERLPS  
MKGPIDINMSEIGMDYIHELFSKDPTIKLGGHWKPSDCMPRWKVAILIPFRNRHEHLPVL

FRHLLPMLQRQLQFAFYVVEQVGTQPFNRAMLFNVGFQEAMKDLWDCLIFHDVDHIPE  
SDRNYYGCGQMPRHFATKLDKMYLLPYTEFFGGVSGLTVEQFRKINGFPNAFWGGGED  
DDLWNRVQNAGYSVSRPEGDTGKYKSIPIHHHRGEVQFLGRYALLRKSKEQGLDGLNNLN  
YFANITYDALYKNITVNLTPELAQVNEY

>sp|000154|BACH\_HUMAN Cytosolic acyl coenzyme A thioester hydrolase OS=Homo sapiens  
GN=ACOT7 PE=1 SV=3

MKLLARALRLCEFRQASSRRLVAGQGCVGPRRGCCAPVQVVGPRADLPPCGACITGRIM  
RPDDANVAGNVHGGTILKMIEEAGAIISTRHCNSQNGERCVAALARVERTDFLSPMCIGE  
VAHVSAEITYTSKHSVEVQVNVMSENILTGAKKLTNKATLWYVPLSLKNVDKVLEVPV  
YSRQEQUEEEGRKRYEAQKLERMETKWRNGDIVQPVNLPEPNTVSYSQSSLIHLVGPSDCT  
LHGFVHGGVTMKLMDEVAGIVAARHCKTNIVTASVDAINFHDKIRKGCVITISGRMTFTS  
NKSMEIEVLVDADPVVDSSQKRYRAASAFFTYVSLSQEGRSLPVPQLVPETEDEKKRFEE  
GKGRYLQMKAKRQGHAEPPQ

>sp|Q6P575|BGP11\_HUMAN Putative inactive beta-glucuronidase protein GUSBP11 OS=Homo  
sapiens GN=GUSBP11 PE=5 SV=2

MTAAETGRGKPRLLGGGSLGGSPAAVVWLHVGGATGRDAVSPREPVAQAAGRPLKLPRR  
LLRQPTPGLRGAESGPTVDMVPSSFNIDIGQGWRLRHVSWLWYEREVTLLERWIQDLCT  
RVVLRIGSAHFYAIWVWNGVDVEHEGGYLPFEADISSLFQVEPLPSHLCTITIAINNTLT  
PQPCHQGSPVHDRHLQVGTILPPLHAPTFPPHPVVFLPGTGYPKGYFVQNTDFDFFSYAG  
LLWSLLLYTTPPTYIDDVTVTGVKRDSEGEFW

>sp|P30411|BKR2\_HUMAN B2 bradykinin receptor OS=Homo sapiens GN=BKR2 PE=1 SV=2

MFSPWKISMFLSVREDSVPTTASFADMLNVTLCGPTLNGTFAQSKCPQVEWLGLNTIQ  
PPFLWLVFLATLENIFVLSVFCLHKSSCTVAEIIYLGNLAAADLILACGLPFWAITISNN  
FDWLFGETLCRVNNAIISMNLYSSICFLMLVSIDRYLALVKTMSMGRMRGVRWAKLYSLV  
IWGCTLLLSSPMLVFRTMKEYSDEGHNVTTACVISYPSLIWEVFTNMLLNVGFLPLSVI  
TFCTMQIMQVLRNNEQKFKETERRATVLLVLLLFIIICWLPFQISTFLDTLHRLGI  
LSSCQDERIIDVITQIASFMAYSNSCLNPLVYVIVGKRFRKKSWEVYQVCQKGGCRSEP  
IQMENSMTLRTSISVERQIHKLQDWAGSRQ

>sp|Q8IZY5|BLID\_HUMAN BH3-like motif-containing cell death inducer OS=Homo sapiens  
GN=BLID PE=1 SV=2

MVTLLEPIEGQEIHFTEILESECVLYTGWIERASGSSIYPEAKARLPLEALLGSNKEPMLP  
KETVLSLKRYNLGSSAMKRNVPGHVLQRPSYLTRIQTLLCNSSAEAL

>sp|P51451|BLK\_HUMAN Tyrosine-protein kinase Blk OS=Homo sapiens GN=BLK PE=1 SV=3

MGLVSSKKPKDEKPIKEKDKGQWSPLKVSAQDKDAPPLPPLVVFNHLTPPPDEHLDDEK  
HFVVALYDYTAMNDRDLQMLKGEKLQVLKGTGDWWLARSVLTGREGYVPSNFVARVESLE  
MERWFFRSQGRKEAERQLLAPINKAGSFLIRESETNKGAFSLSVKDVTTQGELIKHYKIR  
CLDEGGYYISPRITFPSLQALVQHYSKKGDLGCLQRLTLPCVRPAPQNPWAQDEWEIPRQS  
LRLVRKLGSGQFGEVWMGYKNNMKVAIKTLKEGTMSPEAFLEANVMKALQHERLVRLY  
AVVTKEPIYIVTEYMARGCLLDFLKTDEGSRLSLPRLIDMSAQIAEGMAYIERMNSIHRD  
LRAANILVSEALCCKIADFGLARIIDSEYTAQEGAKFPIKWTAPAEIHFGVFTIKADVWS  
FGVLLMEVVITYGRVPYPGMSNPEVIRNLERGYRMPRPDTCPELYRGVIAECWRSRPEER  
PTFEFLQSVLEDFYTATERQYELQP

>sp|P30043|BLVRB\_HUMAN Flavin reductase (NADPH) OS=Homo sapiens GN=BLVRB PE=1 SV=3

MAVKKIAIFGATGQTGLTTLAQAVQAGYEVTVLVRDSSRLPSEGPRPAHVVGDLQAAD

VDKTVAGQDAVIVLLGTRNDLSPTTVMSEGARNIVAAMKAHGVDKVVACTSAFLLWDPTK  
VPPRLQAVTDDHIRMHKVLRESGLKYVAVMPPHIGDQPLTGAYTVTL DGRGPSRVISKHD  
LGHFMLRCLTTDEYDGHSTYP SHQYQ

>sp|P22003|BMP5\_HUMAN Bone morphogenetic protein 5 OS=Homo sapiens GN=BMP5 PE=2 SV=1

MHLTVFLLKGIVGFLWSCWVLVGAKGGLGDNHVHSSFIYRRLRNHERREIQREILSILG  
LPHRPRPFSPGKQASSAPLFMLDLNAMTNEENPEESEYSVRASLAEETR GARKGYPASP  
NGYPRRIQLSRTTPLTTQSPPLASLHDTNFLNDADMVMSFVNLVERDKDFSHQRRHYKEF  
RFDLTQIPHGEAVTAAEFRIYKDRSNNRFENETIKISIQI IKEYTNRDADLFLDTRKA  
QALDVGWL VFDITVTSNHWVINPQNNLGLQLCAETGDRSINVKSAGLVGRQGPQSKQPF  
MVAFFKASEVLLRSVRAANKRKNQNRNKSSSHQDSSRMSSVGDYNTSEQKQACKKHELYV  
SFRDLGWQDWIIAPEGYAAFYCDGECFPLNAHMNATNHAIVQTLVHLMFPDHPKPCA  
PTKLN AISVLYFDSSNVILKKYRNMVVRSCGCH

>sp|P36894|BMPRIA\_HUMAN Bone morphogenetic protein receptor type-1A OS=Homo sapiens  
GN=BMPRIA PE=1 SV=2

MPQLYIYIRLLGAYLFIISRVQGNLDSMLHGTGMKSDSDQKKSENGVT LAPEDTL PFLK  
CYCSGHC PDDA INNTCITNGHCF AII EDDQGETTLASGCMKYEGSDFQCKDSPKAQLRR  
TIECCRTNLCNQYLQPTLPPV VIGPFFDGSIRWLVLLISMAVCIAMIIFSSCFYKHYC  
KSISRRRYNRDLEQDEAFIPVGESLKDLDQSSSGSGSGLPLLVRTIAKQIQMVRQV  
GKGRYGEVWMGKWRGEKVAVKVFFTEEASWFRETEIYQTVLMRHENILGFIAADIKGTG  
SWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYS AACGLCHLHTEIYGTQGKPAIAH  
RDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTKRYMAPEVLDES LKN  
HFQPYIMADIYSFGLIIWEMARRCITGGIVEEYQLPYYNMVPSDPSYEDMREVVCVKRLR  
PIVSNRWNSDECLRAVLKLMSECAHN PASRLTALRIKKT LAKMVESQDVKI

>sp|Q9BZR8|B2L14\_HUMAN Apoptosis facilitator Bcl-2-like protein 14 OS=Homo sapiens  
GN=BCL2L14 PE=1 SV=1

MCSTSGCDLEEIPLDDDLNTIEFKILAYYTRHHVFKSTPALFSPKLLRTRSLSQRGLGN  
CSANESWTEVSWPCRNSQSSEKAINLGKKKSSWKAFFGVVEKEDSQSTPAKVS AQGQRTL  
EYQDSHSQW SRCLS NVEQCLEHEAVDPKVISIANRVAEIVYSWPPPQATQAGGFKSKEI  
FVTEGLSFQLQGHVPVASSSKDEEEQILAKIVELLKYSGDQLERKLKDKALMGHFQDG  
LSYSVFKTITDQVLMGVDPRGESEVKAQGFKAAALVIDVTAKLTAIDNHPMNRVLGFGTKY  
LKENFSPWIIQQHGGWEKILGISHEEVD

>sp|Q9UBV7|B4GT7\_HUMAN Beta-1,4-galactosyltransferase 7 OS=Homo sapiens GN=B4GALT7 PE=1  
SV=1

MFPSRRKAAQLPWEDGRSGLLSGGLPRKCSVFHLFVACL SLGFFSLLWLQLSCSGDVARA  
VRGQGQETSGPPRACPPEPPPEHWEEDASWGPHRLAVLVPFRERFEELLVFVPHMRRFLS  
RKKIRHHIYVLNQVDHFRFNRAALINVG FLESSNSTDYIAMHDVDLLPLNEELDYG FPEA  
GPFHVASPELHPLYHYKTYVGILL LSKQHYRLCNGMSNRFWGWGREDE FYRRIKGAGL  
QLFRPSGITTYGKTFRHLHDP AWRKRDQKRIAAKQEQFKVDREGGLNTVKYHVASRTAL  
SVGGAPCTVLNIMLDCDKTATPWCTFS

>sp|Q13829|BACD2\_HUMAN BTB/POZ domain-containing adapter for CUL3-mediated RhoA  
degradation protein 2 OS=Homo sapiens GN=TNFAIP1 PE=1 SV=1

MSGDTCLCPASGAKPKLSGFKGGGLGNKYVQLNVGGS LYTTVRALTRHDTMLKAMFSGR  
MEVLT DKEGWILIDRCGKHFGTILNYLRDDTITLPQNRQEIKELMAEAKYYLIQGLV NMC  
QSALQDKKDSYQPCNIP IITSLKEEERLIESSTKPVVKLLYNRSNNKYSYTSNSDDHLL

KNIELFDKLSLRFNGRVLFIKDVGDEICCSFYGGQRKLAEVCCTSIVYATEKKQTKVE  
FPEARIEETLNVLLYETPRVPDNLLEATSRSRSQASPEDEETFELRDRVRRIHVKRY  
STYDDRQLGHQSTHRD

>sp|P56817|BACE1\_HUMAN Beta-secretase 1 OS=Homo sapiens GN=BACE1 PE=1 SV=2

MAQALPWWLLWMGAGVLPAGHTQHGIPLRSLGGLRLPRETDEEPEEPGRGGSF  
VEMVDNLRGKSGQGYVEMTVGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSST  
YRDLRGVYVPYTQGWEGELGTDLVSIHPGNVTVRANIAAITESDKFFINGSNWEGL  
GLAYAEIARPDDSLPEFFDSLQKTHVFNLSLQCGAGFPLNQSEVLASVGGSMIIGGI  
DHSLYTGSLWYTPIRREWYVEIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRPKK  
VFEEAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRT  
ILPQQYLRPVEDVATSDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSAC  
HVVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQW  
CCLRCLRQQHDDFADDISLLK

>sp|014867|BACH1\_HUMAN Transcription regulator protein BACH1 OS=Homo sapiens GN=BACH1  
PE=1 SV=2

MSLSENSVFAYESSVHSTNVLLSLNDQRKKDVLCDVTIFVEGQRFRAHRSVLAACSSYFH  
SRIVGQADGELNITLPEEVTVKGFELIQFAYTAKLILSKENVDEVCKCVEFLSVHNIEE  
SCFQFLKFKFLDSTADQCEPRKKCFSSHCQKTDLKLSLDQRDLETDEVEEFLENKNVQ  
TPQCKLRRYQGNAKASPPLQDSASQTYESMCLEKDAALALPSLCPKYRFQKAFGTDRVR  
TGESSVKDIHASVQPNERSENECLGGVPECRDQLQVMLKCESKLAMEPEETKKDPASQCP  
TEKSEVTPFPHNSSIDPHGLYSLLHTYDQYGDNLNFMQNTTVLTEKPLSGTDVQEK  
FGESQDLPLKSDLGTREDSSVASSDRSSVEREVAEHLAKGFWSDICSTDTPCQMQLSPAV  
AKDGSEQISQKRSECPWLGIRISESPEPGQRTFTTLSSVNCFFISTLSTEGCSSNLEIGN  
DDYVSEPQQEPCPYACVISLGDDSETDTEGDESSECSAREQECEVKLPFNAQRIISLSRND  
FQSLLKMHKLTPQLDCHDIRRSKNRIAAQRCRKRKLDCTQNLESEIEKLQSEKESLL  
KERDHILSTLGETKQNLTLGLCQKVCKEAALSQEQIQLAKYSAADCPLSFLISEKDKSTP  
DGELALPSIFSLSDRPPAVLPPCARGNSEPGYARGQESQQMSTATSEQAGPAEQCRQSGG  
ISDFCQQMTDKCTTDE

>sp|095816|BAG2\_HUMAN BAG family molecular chaperone regulator 2 OS=Homo sapiens GN=BAG2  
PE=1 SV=1

MAQAKINAKANEGRCRSSSMADRSSRLLESLDQLELRVEALREAATAVEQEKEILLEMI  
HSIQNSQDMRQISDGEREELNLNANRLMGRTLTVEVSVETIRNPQQQESLKHATRIIDEV  
VNKFLDDLGNKSHLMSLYSACSSEVPHGPVDQKFQSIIVIGCALEDQKKIKRRLETLLRN  
IENSDKAIKLLEHSGAGSKTLQNAESRFN

>sp|095817|BAG3\_HUMAN BAG family molecular chaperone regulator 3 OS=Homo sapiens GN=BAG3  
PE=1 SV=3

MSAATHSPMMQVASGNDRDPLPPGWEIKIDPQTGWPFVVDHNSRTTWNDRVPSEGP  
ETPSSANGPSREGSRLPPAREGHPVYPQLRPGYIPIVLHEGAENRQVHPFHVYPQPMQ  
RFRTEAAAAAPQRSQSPLRGMPETTQPDKQCGQVAAAAAQPASHGPERSQSPAASDCS  
SSSSASLPSSGRSSLGSHQLPRGYISIPVIHEQNVTRPAAQPSFHQAQKTHYPAQQGEY  
QTHQPVYHKIQGDDWEPRPLRAASPFSSVQGASSREGSPARSSTPLHSPSPIRVHTVVD  
RPQQPMTHRETAPVSQENKPKSGPVGPPELPPGHIPIQVIRKEVDSKPVSQKPPPPSE  
KVEVKVPAPVPCPPSPGPSAVPSSPKSVATEERAAPSTAPAEATPPKPGAEAPPKHP  
GVLKVEAILEKVQGLEQAVDNFEGKKTDKKYLMIIEYLTKEALLDSVDPEGRADVRQAR

RDGVRKVQTILEKLEQKAIDVPGQVQVYELQPSNLEADQPLQAIMEMGAVAADKGKKNAG  
NAEDPHTETQQPEATAAATSNPSSMTDTPGNPAAP

>sp|Q86Y27|BAGE5\_HUMAN B melanoma antigen 5 OS=Homo sapiens GN=BAGE5 PE=2 SV=1

MAAGAVFLALSAQLLQARLMKEESPVVSWRLEPEDGTALCFIF

>sp|Q8TBE0|BAHD1\_HUMAN Bromo adjacent homology domain-containing 1 protein OS=Homo sapiens GN=BAHD1 PE=1 SV=2

MTHTRRKS L PMLSSGLTGRREPLQMEDSNMEQGVGVEPGMPESPGHLTGRRKNYPLRKR  
PLVPEKPKACKVLLTRLENVAGPRSADEADELPDLKPPSPAPSSDPGLAQPRKRRLA  
SLNAEALNNLLLEREDTSSLAGTRRSRAGDPHRSRDRDRATGGWSSSKRPRLGDLGGGS  
RDLSPPEAPDEGPRRDGDPAPKRLASLNAAAFKLKSQERELPLRLPRAHAEVDGRSTEPP  
APKAPRPKWPKVNGKNYPKAWQGASSGEAAGPPGWGCPDEPWPSATPCGSPSVQPSHQPL  
SKALESPLGLRPHLP LLMGGQAALKPEPGRPGEESPAPKQELHQPSFPTPQLSPLMPGN  
PADYNGLCVGPETALGSFYLYCGQEGLCGGYSPCPMLPEGKLSPVAAPHEEGLLLAPS  
SVPSGTPFQHPPWGSRRYCSSEDTGVNGYSICGVLPLSVTHAGTTCGGCPYKMPFAAEGC  
RSLGQLEFPLPEAGHPASAPHLGCPVPSVPPAAEPVPHLQTPTSEPQTVARACPQSAK  
PPSGSKSGLRTGSSCRHTARSKAARRPSHPKQPRVQRPRPRRRRRRTNGWVPVGAACEK  
AVYVLDEPEPAIRKSYQAVERHGETIRVRD TVLLKSGPRKTSTPYVAKISALWENPESGE  
LMMSLLWYYRPEHLQGGRSPSMHEPLQNEVFASRHQDQNSVACIEEKCYVLTFAEYCRFC  
AMAKRRGEGLPSRK TALVPPSADYSTPPHRTVPEDTDPELVFLCRHVYDFRHGRILKNPQ

>sp|O14514|BAI1\_HUMAN Brain-specific angiogenesis inhibitor 1 OS=Homo sapiens GN=BAI1 PE=1 SV=2

MRGQAAAPGPVWILAPLLLLLLLLGRRARAAAGADAGPGPEPCATLVQGKFFGYFSAAAV  
FPANASRCSWTLRNPDPRRYTYLMKVAKAPVPCSGPGRVPTYQFDSFLESTRTYLGVESF  
DEVLRLCDPSAPLAF LQASKQFLQMRRQPPQHDGLRPRAGPPGPTDDFSVEYLVVGNRN  
PSRAACQMLCRWLDA CLAGSRSSHPCGIMQTPCACL GGEAGGPAAGPLAPRGDVCLRDAV  
AGGPENCLTSLTQDRGGHGATGGWKLWSLWGECTRD CGGLQTRTRTCLPAPGVEGGGCE  
GVLEEGRQCNREACGPAGRTSSRSQSLRSTDARRREELGDELQQFGFPAPQTGDPAAEW  
SPWSVCSSTCGEGWQTRTRFCVSSSYSTQCSGPLREQRLCNNSAVCPVHGAWDEWSPWSL  
CSSTCGRGRDRTRTRCRPPQFGGNPCGPEKQTKFCNIALCPGRAVDGNWNEWSSWSACS  
ASCSQGRQRTRECNGPSYGAECQGHVETRD CFLQQCPVDGKWQAWASWGSCSVTCGA  
GSQRRERVCSGPF FGAACQGPQDEYRQCGTQRCPEPHEICDEDNFGAVIWKETPAGEVA  
AVRCPRNATGLILRRCELDEEGIAYWEPPTYIRCVS IDYRNIQMMTREHLAKAQRGLPGE  
GVSEVIQTLVEISQDGTSYSGDLLSTIDVLRNMTEIFRRAYYSPTPGDVQNFVQILSNLL  
AEENRDKWEEAQLAGPNAKELFRLVEDFVDVIGFRMKDLRDAYQVTDNLVLSIHKL PASG  
ATDISFPMKGWRATGDWAKVPEDRVTVSKSVFSTGLTEADEASVFVVGTVLYRNLGSFLA  
LQRNTTVLNSKVISVTVKPPPSRLRTPLEIEFAHMYNGTTNQT CILWDETDPSSSAPPQ  
LGPWSWRGCR TVPLDALRTRCLCDRLSTFAILAQLSADANMEKATLPSVTLIVGCGVSSL  
TLLMLVIIYVSVWRYIRSERSVILINFCLSI ISSNALILIGQTQTRNKVVCTLVAAFLHF  
FFLSSFCWVLTEAWQSYMAVTGHLRNRLIRKRFCLGWGLPALVVAISVGFTKAKGYSTM  
NYCWL SLEGLLYAFVGPAAAVLVNMVIGILVFNKL VSKDGITDKKLKERAGASLWSSC  
VVLPLLALTWMSAVLAVTDRRSALFQILFAVFD SLEGFVIMVHCILRREVQDAVKCRVV  
DRQEEGN DSGGSFQNGHAQLMTDFEKD VDLACRSVLNKDIAACRTATITGTLKRPSLPE  
EEKLKL AHAKGPPTNFNSLPANVSKLHLHGSPRYPGGPLPDFPNHSLTLKRDKAPKSSFV  
GDGDI FKKLDSELSRAQE KALDTSYVILPTATATLRPKPKEEPKYSIHIDQMPQTRLIHL



STAPEASLPARSPPSRQPPSGGPPEAPPAQPPPPPPPPPPPPQQLPPPPNLEPAPPSLG  
DPGEAAHPGPSTGPKSTKNENVATLSVSSLERRKSRYAELDFEKIMHTRKRHQDMFQDLN  
RKLQHAAEKDKEVLGPDSPKEKQTPNKRWPESLRKAHGTPTWVKELEPLQSPLELRS  
VEWERSGATIPLVGQDIIDLQTEV

>sp|094812|BAIP3\_HUMAN BAI1-associated protein 3 OS=Homo sapiens GN=BAIAP3 PE=1 SV=2

MRPRGAAFAAGPPGDLHLGTAIGFAGAIWRSRSPAMSTLLDIKSSVLRQVQVCPSPFRRT  
EQDPGSASADPQEPATGAWKPGDGVVEFFAHMRLMLKKGEGRQGLPCLEVPLRSGSPAPPE  
PVDPSLGLRALAPEEVEMLYEEALYTVLYRAGTMGPDQVDDEEALLSYLQQVFGTSLEE  
TEAIERVRKAKAPTYALKVSVMRANKLLAKDPNGFSDPYCMLGILPASDATREPRAKEQ  
RFGFRKGSKRGGPLPAKCIQVTEVKSSSTLNPVWKEHFLFEIEDVSTDQLHLDIWDHDDV  
SLVEACRKLNEVIGLKGMYFKQIVKSARANGTAGPTEDHTDDFLGCLNIPVREVPVAG  
VDRWFKLEPRSSASRVQGHCHLVKLITTRQDAMSQRGRSGFLSHLLLLSHLLRLEHSA  
EEPNSSSWRGELSTPAATILCLHGAQSNLSPLQLAVLHWQVSSRHHQTCTLDYSYLLGLL  
EDMQAHWEEAPSLPQEQUEESLADSLSAFSEFGLQLLRQLRDYFPATNSTAVHRELLKLC  
LGKLQLFQPSFEICPFESELNMDIAAALKRGNREWDRIILNDKSPREQPGPQRLPGLVVL  
ADAVYDDLQFCYSVYASLFHSILNVDVFTLTFRQLERLVAEEAWVLTEELSPKMTLEVAS  
GLFELYTLADLQRFWDSIPGRDSRSLALAGIHAPFLPAVKLWFQVLRDQAKWRLQGAVD  
MDTLEPVDASSRHSSAATAGLCLSHIQELWVRLAWPDPAQAQGLGTQLGQDVCEATLFY  
TELLRKKVDTQPGAAGEAVSEALCVLNNVELVRKAAGQALKGLAWPEGATGPEGVLPRP  
LLSCTQALDDDLQREAHVTVAHLTSKMVGDIRKYVQHISLSPDSIQNDEAVAPLMKYLDE  
KLALLNASLVKGNLSRVLEALWELLLQAILQALGANRDVSADFYSRFHFTLEALVSFFHA  
EGQGLPLESLRDGSYKRLKEELRLHKCSTRECIEQFYLDKLRQRTLEQNRFGRLSVRCHY  
EAAEQRLAVEVLHAADLLPLDANGLSDPFVIVELGPPHLFPLVRSQRTQVKTRTLHPVYD  
ELFYFSVPAEACRRRAACVLFVMDHDWLSTNDFAGEAALGLGGVTGVARPVGGGARAG  
QPVTLHLCRPRAQVRSALRRLEGRTSKEAQEFVKKLKELEKCEADP

>sp|Q16611|BAK\_HUMAN Bcl-2 homologous antagonist/killer OS=Homo sapiens GN=BAK1 PE=1 SV=1

MASGQGPGRPRQECGEPALPSASEEQVAQDTEEVFRSYVFYRHHQEQEAEGVAAPADPEM  
VTLPLQPSSTMGQVGRQLAIIIGDDINRRYDSEFQTMQLHLQPTAENAYEYFTKIATSLFE  
SGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVDFMLHHCIARWIAQRGGWVAA  
LNLGNPILNLVVLGVVLLGQFVRRFFKS

>sp|P82251|BAT1\_HUMAN b(0,+)-type amino acid transporter 1 OS=Homo sapiens GN=SLC7A9 PE=1 SV=1

MGDTGLRKRREDEKSIQSQEPKTTSLQKELGLISGISIIVGTIIGSGIFVSPKSVLSNTE  
AVGPCLIIWAACGLATLGALCFELGTMITKSGGEYPYLMEAYGPIPAYLFSWASLIVI  
KPTSFIIICLSFSEYVCAPFYVGCKPPQIVVKCLAAAAILFISTVNSLSVRLGSYVQNIF  
TAAKLIVIVAIISGLVLLAQGNTKNFDSFEGAQLSVGAISLAFYNGLWAYDGWNQNLNY  
ITEELRNPNRNLPLAIIIGIPLVTACYILMNVSFYFTVMTATELLQSQAQAVTFGDRVLYP  
ASWIVPLFVAFSTIGAANGTCFTAGRLIYVAGREGHMLKVLSYISVRRLTPAPAIIFYGI  
IATIIYIIPGDINSLVNYFSFAAWLFYGLTILGLIVMRFRKELERPIKVPVIVPVLMTLI  
SVFLVLAPIISKPTWEYLYCVLFILSGLLFYFLFVHYKFGWAQKISKPIITMHLQMLMEVV  
PPEEDPE

>sp|Q07812|BAX\_HUMAN Apoptosis regulator BAX OS=Homo sapiens GN=BAX PE=1 SV=1

MDGSGEQPRGGGPTSSEQIMKTGALLQGFIQDRAGRMGGEAPELALDPVPQDASTKKLS  
ECLKRIGDELDSNMELQRMIAAVDTSPREVFFRVAADMFSNGNFWGRVVALFYFASKL

VLKALCTKVP ELIRTIMGWTLD FLRERLLGW IQDQGGWDGLLSYFGTPTWQT VTI FVAGV  
LTASLTIWKKMG

>sp|A8MTZ0|BBIP1\_HUMAN BBSome-interacting protein 1 OS=Homo sapiens GN=BBIP1 PE=1 SV=2  
MLKAAAKRPELSGKNTISNNSDMAEVKSMFREVLPKQGPLFVEDIMTMVLCKPKLLPLKS  
LTLEKLEKMHQAAQNTIRQQEMAEKDQRQITH

>sp|Q8IWZ6|BBS7\_HUMAN Bardet-Biedl syndrome 7 protein OS=Homo sapiens GN=BBS7 PE=1 SV=2  
MDLILNRMDYLQGVGTSQKTMKLIPASRHRATQKVVIGDHDGVVMCFGMKKGEAAAVFKT  
LPGPKIARLELGGVINTPQEKIFIAAASEIRGFTKRGKQFLSFETNLTESIKAMHISGSD  
LFLSASYIYNHYCDCKDQHYYLSGDKINDVICLPVERLSRITPVLACQDRVLRVLQGS DV  
MYAVEVPGPPTVLALHNGNGDSGEDLLFGTSDGKLALIQITTSKPVRKWEIQNEKKRGG  
ILCIDSFDIVGDGVKDLLVGRDDGMVEVYSFDNANEPVLRFDQMLSESVTSIQGGCVGKD  
SYDEIVVSTYSGWVTGLTTEPIHKESGPGEELKINQEMQNKISSLRNEHLQYKVLQER  
ENYQQSSQSSKAKSAVPSFGINDKFTLNKDDASYSLILEVQTAIDNVLIQSDVPIDLLDV  
DKNSAVVSFSSCDSSENDNFLLATYRCQADTTRLELKIRSI EGQYGT LQAYVTPRIQPKT  
CQVRQYHIKPLSLHQRTHFIDHDPMTLTLTGQFSFAEVHSWVVFCLPEVPEKPPAGEC  
VTFYFQNTFLDTQLESTYRKGEVFKSDNISTISILKDVLSKEATKRKINLNISYEINEV  
SVKHTLKL IHPKLEYQLLLAKKVQLIDALKELQIHEGNTNFLIPEYHCILEEADHLQEEY  
KKQPAHLERLYGMITDLFIDKFKFKGTNVKTKVPLLEILDSYDQNALISFFDAA

>sp|Q9COK0|BC11B\_HUMAN B-cell lymphoma/leukemia 11B OS=Homo sapiens GN=BCL11B PE=1 SV=1  
MSRRKQGNPQHLSQRELITPEADHVEAAILEEDEGLEIEEPSGLGLMVGGPDPLLTCGQ  
CQMNFLPGDILVFI EHKRKQCGGSLGACYDKALDKDSPPPSSRSELRKVSEPVEIGIQVT  
PDEDDHLLSPTKGICPKQENIAGPCRPAQLPAVAPIAASSHPHSSVITSPLRALGALPPC  
LPLCCSARPVSGDGTQEGGQTEAPFGCQCQLSGKDEPSSYICTTCKQPFNSAWFLLQHA  
QNTHGFRITYLEPGPASSLTPRLTIPPLGPEAVAQSPLMNFLGDSNPFNLLRMTGPILR  
DHPGFGEGRLPPTPLFSPPPRHLDPHRLSAEEMGLVAQHPSAFDRVMRLNPMADSPA  
MDFSRRRLRELAGNSSTPPPVS PGRGNPMHRLNPFQSPKSPFLSTPPLPMPGGTPPP  
QPPAKSKSCEFCGKTFKFQSNLIVHRRSHTGEKPYKCQLCDHACSQASKLRHMKTHMHK  
AGSLAGRSDDGLSAASSPEPGTSELAGEGLKAADGDFRHESDPSLGHEPEEEDEEEEEEE  
EEELLENESRPESFSMDSELSRNRENGGGVPGVPGAGGGAALADEKALVLGK VME  
NVGLGALPQYGELLADKQKRGAF LKRAAGGDAGDDDAGGCGDAGAGGAVNGRGGGFAP  
GTEPFPGLFPRKPAPLPSPGLNSAAKRIKVEKDLELPPAALIPSENVYSQWLVGYAASRH  
FMKDPFLGFTDARQSPFATSSHESSENGLRFSTPPGDLLDGGLSGRSGTASGGSTPHLG  
GPGPGRPSSKEGRRSDTCEYCGKVFKNCSNLTVHRRSHTGERPYKCELCNYACAQSSKLT  
RHMKTHGQIGKEYVRCDICQMPFSVYSTLEKHMKKWHGEHLLTNDVKIEQAERS

>sp|P41182|BCL6\_HUMAN B-cell lymphoma 6 protein OS=Homo sapiens GN=BCL6 PE=1 SV=1  
MASPADSCIQFTRHASDVLLNLNRLRSRDILT DVVIVVSREQFRAHKT VLMACSGLFYSI  
FTDQLKCNLSVINLDPEINPEGFCILLDFMYTSRLNLREGNIMAVMATAMYLQMEHVVD T  
CRKFIKASEAEMVSAIKPPREEFLNSRMLMPQDIMAYRGREVVENNLPLRSAPGCESRAF  
APSLYGLSTPPASYS MYSHLPVSLLFSDEEFDVRMPVANPFPKERALPCDSARVPVG  
EYSRPTLEVSPNVCHSNIYSPKETIPEEARSDMHYSVAEGLKPAAPSARNAPYFPCDKAS  
KEEERPSEDEIALHFEPNAPLN RKGLVSPQSPQKSDCQPNSPTESSSKNACILQASG  
SPPAKSPTDPKACNWKYKFIVLNSLNQNAKPEGPEQAELGRLSPRAYTAPPACQPPMEP  
ENLDLQSPTKLSASGEDSTIPQASRLNNIVNRSMTGSPRSSSESHSPLYMHPPKCTSCGS  
QSPQHAEMCLHTAGPTFPEEMGETQSEYSDSSCENGAF CNECDCRFSEEASLKRHTLQT

HSDKPYKCDRCQASFRYKGNLASHKTVHTGEKPYRCNICGAQFNRPANLKTHTRIHSGEK  
PYKCETCGARFVQVAHLRAHVL IHTGEKPYPCEICGTRFRHLQTLKSHLRIHTGEKPYHC  
EKC�LHFRHKSQRLRLRLRQKHGAI TN TKVQYRVSATDLPPPELPKAC

>sp|Q9Y276|BCS1\_HUMAN Mitochondrial chaperone BCS1 OS=Homo sapiens GN=BCS1L PE=1 SV=1

MPLSDFILALKDNPFYFGAGFGLVGVTALALARKGVQLGLVAFRRHYMITLEVPARDRSY  
AWLLSWLTRHSTRTQHL SVETSYLQHESGRISTKFEFVPSPGNHFIWYRGKWIRVERSRE  
MQMIDLQTGTPWESVTFTALGTDRKVFFNILEEARELALQQEEGKTVMYTAVGSEWRPFG  
YPRRRRPLNSVVLQQLADRIVRDVQEFIDNPKWYTDGIPYRRGYLLYGPPGCGKSSF I  
TALAGELEHSICLLSLTSSSLSDRLNHLLSVAPQQSLVLEDVDA AFLSRDLAVENPVK  
YQGLGRLTFSGLLNALDGVASTEARI VFMTNHVDRLDPALIRPGRVDLKEYVGYCSHWQ  
LTQMFQRFYPGQAPSLAENFAEHVLRATNQISPAQVQGYFMLYKNDPVGAIHNAESLRR

>sp|Q8IYS8|BD1L2\_HUMAN Biorientation of chromosomes in cell division protein 1-like 2  
OS=Homo sapiens GN=BOD1L2 PE=2 SV=2

MADGGGGSGGAGPASTRASGGGGPINPASLPPGDPQLIAIIVGQLKSRGLFDSFRRDCK  
ADVDTKPAYQNL SQADNFVSTHLDKQEWNPANDNQLHDGLRQSVVQSGRSEAGVDRI S  
SQVVDPKLNHIFRPQIEQI IHEFLVAQKEAAVPALPPEPEGQDPPAPSQDTS

>sp|P23560|BDNF\_HUMAN Brain-derived neurotrophic factor OS=Homo sapiens GN=BDNF PE=1 SV=1

MTILFLTMVISYFGCMKAAPMKEANIRGQGLAYPGVRTHGTLESVNGPKAGSRGLTSLA  
DTFEHVIEELLEDQKVRPNEENNKDADLYTSRVM LSSQVPLEPPLLFLLEEYKNYLDAA  
NMSMRVRRHSDPARRGELSVCDSISEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQY  
FYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCT  
LTIKRGR

>sp|A8MW95|BECN2\_HUMAN Beclin-2 OS=Homo sapiens GN=BECN2 PE=1 SV=2

MSSIRFLCQRCHQALKLSGSSESRLPAAPAPTSGQAEPGDTREPGVTTREVTDAEEQQD  
GASSRSPPGDGSVSKGHANIFTLLGELGAMHMLSSIQAAGDIFDIVSGQAVVDHPLCEE  
CTDSLLEQLDIQ LALTEADSQNYQRCL ETGELATSEDEAAA LRAELRDLELEE ARLVQEL  
EDVDRNNARAAADLQAAQAEAAELDQQRQHYRDYSALKRQQLLELDQLGNVENQLQYAR  
VQRDLKEINCFTATFEIWVEGPLGVINNFR LGR LPTVRVGWNEINTAWGQAALLLT LA  
NTIGLQFQRYRLIPCGNHSYLKSLTDDRTELPLFCYGGQDVFLNNKYDRAMVAFLDCMQQ  
FKEEA EK GELGLSLPYGIQVETGLMEDVGGRGECYSIRTHLNTQELWTKALKFMLINFKW  
SLIWVASRYQK

>sp|Q8NFU1|BEST2\_HUMAN Bestrophin-2 OS=Homo sapiens GN=BEST2 PE=2 SV=1

MTVYTYTARVANARFGGFSQLLLLWRGSIYKLLWRELLCFLGFYMA LSAAYRFVLTEGQKR  
YFEKLV IYCDQYASLIPVSFVLGFYVTLV VNRWWSQYLCMPLPDALMCVVAGTVHGRDDR  
GRLYRR TLMRYAGLSAVLILRSVSTAVFKRFPTIDHVVEAGFMTREERKKFENLNSSYNK  
YWVPCVWFSNLAAQARREGRI RDNSALKLLLEELNVFRGKCGMLFHYDWISVPLVYTQVV  
TIALYSYFLACLIGRQFLDPAQGYKDHDLDLCVPIFTLLQFFFYAGWLKVAEQLINPFGE  
DDDDFETNFLIDRN FQVSM LAVDEMYDDLAVLEKDLYWDAAEARAPYTAATVFQLRQPSF  
QGSTFDITLAKEDMQFQRLDGLDGPMEAPGDFLQRLLPAGAGMVAGGPLGRRLSFLLRK  
NSCVSEASTGASCSCAVVPEGAAPECSGDP LLDPLGLPEPEAPPPAGPEPLTLIPGPVEP  
FSIVTMPGPRGPAPPWLPSPIGEEEEENLA

>sp|Q8N1M1|BEST3\_HUMAN Bestrophin-3 OS=Homo sapiens GN=BEST3 PE=2 SV=1

MTVYSSKVANATFFGFHRLLLKWRGSIYKLLYREFIVFAVLYTAISLVYRLLLTGVQKR  
YFEKLSIYCDRYAEQIPVTFVLGFYVTLV VNRWVNQFVNLPWPDRMLFLISSSVHGSDEH

GRLLRRTL MRYVNL TSL IFRSV STAVYKR FPTMDHVVEAGFMTTDERKLFNHLKSPHLK  
YWVPFIWFGNLATKARNEGRIRDSVDLQSLMTEMNRYRSWCSSLFGYDWVGIPLVYTQVV  
TLAVYTTFFFACLIGRQFLDPTKGYAGHDLDIYIIFTLLQFFFYAGWLKVAEQLINPFGE  
DDDDFETNWCIDRNLQVSL LAVDEM HMSLPKMKDIYWDDSAARPPYTLAAADYCIPSFL  
GSTVQMGLSGSDFPDEEWLWDYEKHGHRHSMIRRVKRFLSAHEHPSSPRRRSYRRQTS  
SMFLPRDDLSPARDLLDVSRNPPRASPTWKKSCFPEGSPTLHFSMGELSTIRETSQTST  
LQSLTPQSSVRTSPIKMPVLPEVLITAAEAPVPTSGGYHHDSATSILSSEFTGVQPSKTE  
QQQGPMGSILSPSEKETPPGGPSPQTVSASAEENIFNCEEDPGDTFLKRWSLPGFLGSSH  
TSLGNLSPDPMSSQPALLIDTETSSEISGINIVAGSRVSSDMLYLMENLDTKETDIIELN  
KETEESPK

>sp|Q8NFU0|BEST4\_HUMAN Bestrophin-4 OS=Homo sapiens GN=BEST4 PE=2 SV=1

MTVSYTLKVAEARFGGFSGLLLRWGRSIIKLLYKEFLFGALYAVLSITYRLLLTQEQR  
VYAQVARYCNRSADLIPLSFVLGFYVTLVNRWWSQYTSIPLPDQLMCVISASVHGV  
GRLLRRTLIRYANLASVLVLRSVSTRVLKRFPTEHVVDAGFMSQEERKKFESLKSDFNK  
YWVPCVWFTNLAAQARRDGRIRDDIALCLLLEELNKYRAKCSMLFHYDWISIPLVYTQVV  
TIAVYSFFALSLVGRQFVEPEAGAAKPQKLLKPGQEPAPALGDPDMYVPLTTLLQFFFYA  
GWLKVAEQIINPFGEDDDFETNQLIDRNLQVSLLSVDEMYQNLPPAEKDQYWDEDQPP  
PYTVATAAESLRPSFLGSTFNLRMSDDPEQSLQVEASPGSGRPAPAAQTPLLGRFLGVGA  
PSPAISLRNFRVRGTPRPPHLLRFRAEEGGDPEAAARIEEESAESGDEALEP

>sp|Q7RTU4|BHA09\_HUMAN Class A basic helix-loop-helix protein 9 OS=Homo sapiens GN=BHLHA9  
PE=1 SV=2

MLRGAPGLGLTARKGAEDSAEDLGPCPEPGGDSGVLGANGASCSRGEAEPEAGRRARP  
VRSKARRMAANVRERKRILDYNEAFNALRRALRHDLGKRLSKIATLRRAIHRIAALSLV  
LRASPAPRPGCGHLECHGPAARGDTGDTGASPPPPAGPSLARPDAAARPSVPSAPRCASCP  
PHAPLARPSAVAEGPLAQASGGSWRRCPGASSAGPPWPGRYLRSAPGMGHPRS

>sp|Q8NFJ8|BHE22\_HUMAN Class E basic helix-loop-helix protein 22 OS=Homo sapiens  
GN=BHLHE22 PE=2 SV=1

MERGMHLGAAAAGEDDLFLHKSLSASTSKRLEAAFRSTPPGMDLSLAPPPRERPASSSS  
PLGCFEPADPEGAGLLLP PPGGGGGG SAGSGGGGGGVGPGLLVGSAGVGGDPSLSL  
AGAALCLKYGESASRGSAESSGGEQSPDDSDGRCELVLRAGVADPRASPGAGGGGAKA  
AEGCSNAHLHGASVPPGGLGGGGGGSSSGSGGGGGSGSGSGSSSSSSSSSKSKEQ  
KALRLNINARERRRMHDLNDALDELRAVIPYAHSPSVRKLSKIATLLAKNYILMQAAL  
EEMRRLVAYLNQGQAISAASLPSSAAAAAALHPALGAYEQAAGYPFSAGLPPAASCP  
EKCALFNSVSSSLCKQCTEK

>sp|Q9H6S1|AZI2\_HUMAN 5-azacytidine-induced protein 2 OS=Homo sapiens GN=AZI2 PE=1 SV=1

MDALVEDDICILNHEKAHKRDTVTPVSIYSGDESVASHFALVTAYEDIKKRLKDSEKENS  
LLKKRIRFLEELIARFEEETSSVGREQVNKAYHAYREVCIDRNLKSKLDKMNKDNSES  
LKVLEQLQSKEVELLQLRTEVETQQVMRNLNPPSSNWEVEKLSCDLKIHGLEQELELMR  
KECSDLKIELQKAKQTDQPYQEDNLKSRDLQKLSISSDNMQHAYWELKREMSNLHLVTQVQ  
AELLRLKLTSTAIIKACAPVGCSEDLGRDSTKLHLMNFTATYTRHPPLLPNGKALCHTTS  
SPLPGDVKVLSEKAILQSWTDNERSIPNDGTCFQEHSSYGRNSLEDNSWVFPSPPKSSET  
AFGETKTKTLPLPNLPPLHYLDQHNQNCLYKN

>sp|Q9BXK5|B2L13\_HUMAN Bcl-2-like protein 13 OS=Homo sapiens GN=BCL2L13 PE=1 SV=1

MASSSTVPLGFHYETKYVVL SYLGLLSQEKLQEQLHSSPQGVQLDIASQSLDQEILLKVK

TEIEEELKSLDKIESEFTSTGFDRTSPVFSPANPESSMEDCLAHLGEKVSQELKEPLH  
KALQMLLSQPVTYQAFRECTLETTVHASGWNKILVPLVLLRQMLLELTRRGQEPLSALLQ  
FGVTYLEDYSAEYIIQQGGWGTVFSLESEEEYPGITAEDSNDIYILPSDMSGQVSPPE  
PTVTTSWQSESLPVLSASQSWHTESLPVSLGPESWQQIAMDPPEEVKSLDSNGAGEKSEN  
NSSNSDIVHVEKEEVPEGMEEAAVASVVLPAELQEALPEAPAPLLPHITATSLLGTREP  
DTEVITVEKSSPATSLFVELDEEEVKAATTEPTEVEEVVPALEPTETLLSEKEINAREES  
LVEELSPASEKKPVPPSEGKSRLSPAGEMKPMPLSEGKSILLFGGAAAVAILAVAIGVAL  
ALRKK

>sp|P48751|B3A3\_HUMAN Anion exchange protein 3 OS=Homo sapiens GN=SLC4A3 PE=2 SV=2

MANGVIPPFGASPLPQVRVPLEEPPLSPDVEEEDDLGKTLAVSRFGDLISKPPAWDPE  
KPSRSYSERDFEFHRHTSHHTHPLSARLPPPHKLRLPPTSARHTRRKRKKEKTSAPPS  
EGTPPIQEEGGAGVDEEEEEEEEEEGESEAEPVEPPHSGTPQKAKFSIGSDEDDSPGLPG  
RAAVTKPLPSVGPHTDKSPQHSSSSPSRARASRLAGEKSRPWSASYDLRERLCPGSA  
LGNGGPEQVPTDEAEAQMLGSADLDDMKSHRLEDNPGVRRHLVKKPSRTQGGRGSPSG  
LAPILRRKKKKKLDLRRPHEVFVELNELMLDRSQEPHWRETARWIKFEEDVEEETERWGK  
PHVASLSFRSLELRRTIAHGAALLDLEQTTLPGLAHLVETMIVSDQIRPEDRASVLRT  
LLKHSHPNDDKDSGFFPRNPSSSSMNSVLGNHHTPSHGPDPGAVPTMADDLGEPAPLWP  
HDPDAKEKPLHMPGGDGHGRGSLKLEKIPEDAEATVVLVGCVPFLEQPAAAFVRLNEAV  
LLESVLEVPVPVRFVLMGPSHTSTDYHELGRSIATLMSDKLFHEAAYQADDRQDLSA  
ISEFLDGSIVIPPSEVEGRDLLRSVAAFQRELLRKRREREQTKVEMTRGGYTAPGKELS  
LELGGSEATPEDDPLRTGVSFGLVRDVRRRYPHYPSDLRDALHSQCVAAVLFIFYAAL  
SPAITFGGLLGEKTEGLMGVSELIVSTAVLGVLFSLLGAQPLLVGFSGPPLLVFEEAFFK  
FCRAQDLEYLTGRVWVGLWL VVFVLALVAAEGSFLVRYISPFTQEIFAFLISLIFYETF  
YKLYKVFTEHPLLFPYPPEGALEGLDAGLEPNGSALPTEGPPSPRNQNTALLSLILM  
LGTFFIAFFLRKFRNSRFLGGKARRIGDFGIPISILVMVLVDYSITDITYTQKLTVP TGL  
SVTSPDKRSWFIPPLGSARFPFMMVAAVAPALLVLILIFMETQITALIVSQARRLLK  
GSGFHLDLLLIGSLGGLCGLFGLPWLTAATVRSVTHVNALTMRTAIAPGDKPQIQEVRE  
QRTVGVLIASLVGLSIVMGAVLRRIPLAVLFGIFLYMGVTSLSGIQLSQRLLLILMPAKH  
HPEQPYVTKVKTWRMHLFTCIQLGCIALLWVKSTAASLAFPLLLTVPLRHCLLPRLF  
QDRELQALDSEDAEPNFDGQDEYNELHMPV

>sp|075752|B3GL1\_HUMAN UDP-GalNAc:beta-1,3-N-acetylgalactosaminyltransferase 1 OS=Homo sapiens GN=B3GALNT1 PE=1 SV=1

MASALWTVLPSRMSLRSLKWSLLLLSLSFFVMWYLSLPHYNVIERVNWYFYEYEPYR  
QDFHFTLREHSNCSHQNPFLVILVTSHPSDVKARQAIRVTWGEKKSWWGYEVLTFLLGQ  
EAEKEDKMLALSLEDEHLLYGDIIHQDFLDYNNLT LKTIMAFRWVTEFCPNAKYVMKTD  
TDVFINTGNLVKYLNLNHSEKFFTGYPIDNYSYRGFYQKTHISYQEYPFKVFPYCSG  
LGYIMSRDLVPRIYEMMGHVKPIKFEDVYVGICLNLKVNIHIPEDTNLFFLYRIHL DVC  
QLRRVIAAHGFSSKEIITFWQVMLRNTTCHY

>sp|Q9Y2A9|B3GN3\_HUMAN N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 3 OS=Homo sapiens GN=B3GNT3 PE=1 SV=2

MKYLRHRRPNATLILAIGAFTLLLFSLLVSPPTCKVQEPPAIPALAWPTPPTRPAPAP  
CHANTSMVTHPDFATQPQHVNFLLYRHCRHFLLQDVPPSKCAQPVFLLLVIKSSPSNY  
VRRELLRRTWGRERKVRGLQLRLLFLVGTA NPHEARKVNRLLELEAQTHGDILQWDFHD  
SFFNLTLKQVFLQWQETRCANASFVLNGDDDVFAHTDNMVFYLDHDPGRHLFVGQLIQ

NVGPIRAFWSKYVPEVVTQNERYPYCGGGGFLLSRFTAAALRRAHVLDIFPIDDVFL  
GMCLELEGLKPASHSGIRTSGVRAPSQRLSSFDPFCFYRDLLLVRHFLPYEMLLMWDALNQ  
PNLTCGNQTIY

>sp|Q6UX72|B3GN9\_HUMAN UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 9  
OS=Homo sapiens GN=B3GNT9 PE=2 SV=1

MRRRLRLRRDALLTLLLGASLGLLLYAQRDGAAPTASAPRGRGRAAPRPTPGPRAFQLPD  
AGAAPPAYEGDTPAPPTPTGPFDFARYLRAKDQRRFLLINQPHKCRGDGAPGGRPDLLI  
AVKSAEDFERRQAVRQTWGAEGRVQGALVRRVFLLGVPRGAGSGGADEVGEGARTHWRA  
LLRAESLAYADILLWAFDDTFFNLTLKEIHFLAWASAFCPDVRVFVKGDADVFNVGNLL  
EFLAPRDPADLLAGDVIVHARPIRTRASKYYIPEAVYGLPAYPAYAGGGGFVLSGATLH  
RLAGACAQVELFPIDDVFLGMCQLRLRLTPEHPAFRTFGIPQPSAAPHLSTFDPCFYRE  
LVVVHGLSAADIWLMWRLLHGHGPACAHQPVAAGPFQWDS

>sp|Q9BPU9|B9D2\_HUMAN B9 domain-containing protein 2 OS=Homo sapiens GN=B9D2 PE=1 SV=2

MAEVHVGIIIGASGFSESSLFCKWGIHTGAAWKLLSGVREGQTQVDTPIQIDMAYWSHP  
IDLHFATKGLQGWPRLHFQVWSQDSFGRCQLAGYGFCVHPSSPGTHQLACPTWRPLGSRW  
EQLARAFVGGGPQLLHGDTIYSGADRYRLHTAAGGTVHLEIGLLLRNFDRYGVCE

>sp|Q9NWX8|BABA1\_HUMAN BRISC and BRCA1-A complex member 1 OS=Homo sapiens GN=BABAM1 PE=1  
SV=1

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEAASADD  
GSLNTSGAGPKSWQVPPPAPEVQIRTPRVNCPKVIICLDLSEEMSLPKLESFNGSKTNA  
LNVSQMIEMFVRTKHKIDKSEFALVVVNDTAWLSGLTSDPRELCSCLYDLETASCST  
FNLEGLFSLIQQKTELPTENVQTIPPPYVVRTILVYSRPPCQPQFSLTEPMKKMFQCPY  
FFFDVVIYHNGTEEEKEEEMSWKDMFAFMGSLDTKGTSYKYEVALAGPALELHNCMAKLLA  
HPLQRPCQSHASYSLEEEDAEIEVEATV

>sp|Q9Y5Z0|BACE2\_HUMAN Beta-secretase 2 OS=Homo sapiens GN=BACE2 PE=1 SV=1

MGALARALLPLLAQWLLRAAPELAPAFPTLPLRVAAATNRVVAPTGPPTPAERHADGL  
ALALEPALASPAGANFLAMVDNLQGDSGRGYLEMLIGTPPKLQILVDTGSSNFAVAG  
TPHSYIDTYFDTERSSTYRSKGFVDVTVKYTQGSWTGFVGEDLVTIPKGFNTSFLVNIATI  
FESENFFLPGIKWNGILGLAYATLAKPSSSLETFDFSLVTQANIPNVFSMQMCGAGLPVA  
GSGTNGGSLVLGGIEPSLYKGDWYTPIKEEWYYQIEILKLEIGGQSLNLDREYNADKA  
IVDSGTTLRLRPQKVFDAVVEAVARASLIPEFSDGFWTGSQACWTNSETPWSYFPKISI  
YLRDENSSRSFRITILPQLYIQPMAGLNYECYRFGISPSTNALVIGATVMEGFYVIFD  
RAQKRVGFAASPCAIEIAGAAVSEISGPFSTEDVASNCVPAQSLSEPILWIVSYALMSVCG  
AILLVLIVLLLLPFRQRRPRDPEVVNDESSLVRHRWK

>sp|Q92934|BAD\_HUMAN Bcl2-associated agonist of cell death OS=Homo sapiens GN=BAD PE=1  
SV=3

MFQIPEFEPSEQEDSSSAERGLGSPAGDGPSSGSKHHRQAPGLLWDASHQQEQPTSSSH  
HGGAGAVEIRSRHSSYPAGTEDEGMGEPSPFGRGRSAPPNLWAAQRYGRELRRMSDE  
FVDSFKKGLPRPKSAGTATQMRQSSSWTRVFQSWWDRNLGRGSSAPSQ

>sp|O75531|BAF\_HUMAN Barrier-to-autointegration factor OS=Homo sapiens GN=BAF1 PE=1 SV=1

MTTSQKHRDFVAEPMGEKPVGSLAGIGEVLGKKLEERGFDKAYVVLGQFLVLKKDEDLFR  
EWLKDTCGANAKQRDCFGCLREWCDAFL

>sp|Q86Y28|BAGE4\_HUMAN B melanoma antigen 4 OS=Homo sapiens GN=BAGE4 PE=2 SV=1

MAAGAVFLALSAQLLQARLMKEESPVVSWWLEPEDGTAL

>sp|Q6ZNE5|BAKOR\_HUMAN Beclin 1-associated autophagy-related key regulator OS=Homo sapiens GN=ATG14 PE=1 SV=1

MASPSGKGARALEAPGCGPRPLARDLVDSVDDAEGLYVAVERCPLCNTTRRRRLTCAKCVQ  
SGDFVYFDGRDRERFIDKKERLSRLKSKQEEFQKEVLKAMEGKWITDQLRWKIMSCKMRI  
EQLKQTICKGNEEMKNESEGLLTKTEKNQKLYSRAQRHQEKKEKIQRHNRKLGDLVEKKT  
IDLRSHYERLANLRSHILELTSVIFPIEEVKTGVRDPADVSSSESDSAMTSSTVSKLAEA  
RRTTYLSGRWVCDDHNGDTSISITGPWISLPNNGDYSAYYSWVEEKKTTQGPDMEQSNPA  
YTISAALCYATQLVNILSHILDVNLPKKLCNSEFCGENLSKQKFTRAVKKLNANILYLCF  
SQHVNLQQLPLHLTLRNLMYLVSPSSEHLGRSGPFVVRADLEESMEFVDPGVAGESDESG  
DERVSDEETDLGTDWENLPSPRFCDIPSQSVEVSQSQSTQASPPIASSSAGGMISAAAAS  
VTSWFKAYTGHR

>sp|Q8NDB2|BANK1\_HUMAN B-cell scaffold protein with ankyrin repeats OS=Homo sapiens GN=BANK1 PE=1 SV=3

MLPAAPGKGLGSPDPAPCGPAPPGNTKDIIMIYEEDAEWALYLTEVFLHVVKREAILLY  
RLENFSFRHLELLNLTSYCKLLILSNSLLRDLTPKKCFLEKILHSPKSVVTLLCGVKS  
SDQLYELLNISQSRWEISTEQEPEDYISVIQSIIFKDSEDYFEVNIPTDLRAKHSGEISE  
RKEIEELSEASRNTIPLAVVLPTIPCENPGEIFIILRDEVIGDTVEVEFTSSNKRI RTR  
PALWNKKVWCMKALEFPAGSVHVNVCYCDGIVKATTKIKYYPTAKAKECLFRMADSGESLC  
QNSIEELDGVLTSLFKHEIPYYEFQSLQTEICSNKYTHFKELPTLLHCAAKFGLKNLAI  
HLLQCSGATWASKMKNMEGSDPAHIAERHGHKELKKIFEDFSIQEIDINNEQENDYEEDI  
ASFSTYIPSTQNPAFHESRKYTGQSADGAEANEMELEGKQNGSGMETKHSPLVGSSESS  
EDQYDDLYVFIPGADPENNSQEPLMSSRPPLPPRPVANAFQLERPHFTLPGMTVEGQME  
RSQNWGHPGVRQETGDEPKGEKEKEKEKEKEKEEEDPYTFAEIDDSEYDMILANLSIKKK  
TGSRSFIINRPPAPTTPRPTSIPPKEETTPYIAQVFQKKTARRQSDDDKFCGLPKKQDRAR  
IESPAFSTLRGCLTDGQEELILLQEKVKNGKMSMDEALEKFKHWMGKSGLEMIQKEKLR  
QLRDCIIGKRPEEENVYNKLTIVHHPGGKETAHNENKFYNVHFSNKLPARPQVEKEFGFC  
CKKDH

>sp|Q9UHQ4|BAP29\_HUMAN B-cell receptor-associated protein 29 OS=Homo sapiens GN=BCAP29 PE=1 SV=2

MTLQWAAVATFLYAEIGLILIFCLPFIPPQRWQKIFSFNVWGKIATFWNKAFLTIIILLI  
VLFLDAVREVRKYSSVHTIEKSSTS RPDAYEHTQMKLFRSQRNLYISGFSLFFWLVLRRRL  
VTLITQLAKELSNKGVLTQAENTNKAAKKFMEENEKLKRILKSHGKDEECVLEAENKKL  
VEDQEKLKTELKTS DALSKAQNDVMEMKMQSERLSKEYDQLLKEHSELQDRLERGNKKR  
L

>sp|Q8N3I7|BBS5\_HUMAN Bardet-Biedl syndrome 5 protein OS=Homo sapiens GN=BBS5 PE=1 SV=1

MSVLDALWEDRDVRFDLQAQMKTRPGEVLIDCLDSIEDTKGNNGDRGRLLVTNLRILWH  
SLALSRVNVSVGYNCILNITTRTANSKLRGQTEALYILTKCNSTRFEFIFTNLVPGSPRL  
FTSVMVHRAVETSKMYRDFKLRSALIQNKQLRLLPQEHVYDKINGVWNLSSDQGNLGT  
FITNVRIVWHANMNSFNVSIPYLQIRSIKIRDSKFGLALVIESSQSGGYVLGFKIDPV  
EKLQESVKEINSLHKVYSASPIFGVDYEMEEKPQPLEALTVEQIQDDVEIDSDGHTDAFV  
AYFADGNKQQDREPVFSEELGLAIEKLDGFTLQGLWEVMS

>sp|075363|BCAS1\_HUMAN Breast carcinoma-amplified sequence 1 OS=Homo sapiens GN=BCAS1 PE=1 SV=2

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TSSPETTEISAVADANGKNLGKEAKPEAPAAKSRFFLMLSRPVPGRGTDQAADSSLGSVK  
LDVSSNKAPANKDPSESWTLPVAAGPGQDTDKTPGHAPAQDKVLSAARDPTLLPPETGGA  
GGEAPSKPKDSSFFDKFFKLDKGQEKVPGDSQQEAKRAEHQDKVDEVPGLSGQSDDPAG  
KDIDVGKEKEGQELGTADCSVPGDPEGLETAKDDSQAAAI AENNSIMSFFKTLVSPNKA  
ETKKDPEDTGAESPTTSADLKSDKANFTSQETQGAGKNSKGCNPSGHTQSVTTPEPAKE  
GTKEKSGPTSLPLGKLFWKKS VKEDSVPTGAEENVVCESPVEI IKSKEVESALQTVDLNE  
GDAAPEPTAKLKREESKPRTSLMAFLRQMSVKGDGGITHSEEINGKDSSCQTSDESTKT  
ITPPEPEPTGAPQKQKGGSSKDKKSAAEMNKQKSNKQEAKEPAQCTEQATVDTNSLQNGD  
KLQKRPEKRQQSLGGFFKGLGPKRMLDAQVQTDVPVSI GPVGKSK

>sp|Q9H6U6|BCAS3\_HUMAN Breast carcinoma-amplified sequence 3 OS=Homo sapiens GN=BCAS3  
PE=1 SV=3

MNEAMATDSPRRPSRCTGGVVVRPQAVTEQSYMESVVTFLQDVVPQAYSGTPLTEEKEKI  
VWVRFENADLNDTSRNLEFHEIHSTGNEPPLLIMIGYSDGMQVWSIPISGEAQELFSVRH  
GPIRAARILPAPQFGAQKCDNFAEKRPLLGVCKSIGSSGTSPPYCCVDLYSLRTGEMVKS  
IQFKTPIYDLHCNKIRILVVVLQEKIAAFDSCFTTKKFFVTSCYPCPGPNMNPIALGSRWL  
AYAENKLIRCHQSRGGACGDNIQSYTATVISAAKTLKSGLTMVGKVVTQLTGTLPSGVTE  
DDVAIHSNSRRSPLVPGIITVIDTETVGEGQVLVSESDSDGIVAHFPAHEKPVCCMAFN  
TSGMLLVTTDTLGHDFHFVQILTHPWSSSQCAVHHLTYLHRGETEAKVQDICFSHDCRWV  
VVSTLRGTSHVFPINPYGGQPCVRTHMSPRVVNRMSRFQKSAGLEEIEQELTSKQGGRC  
PVPGLSSSPSGSPLHGKLSQDSYNNFTNNNPGNPRLSPLSLMVVMPLAQIKQPMTLGT  
ITKRTGPYLFAGCFSIKAPCKVKPPPQISPSKSMGGEFCVAAIFGTSRSWFANNAGLKR  
EKDQSKQVVVESLYIISCYGTLVEHMEPRPLSTAPKISDDTPEMMTSPRASWTLVRTP  
QWNELQPPFNANHPLLLAADAVQYYQFLLAGLVPPGSPGPITRHGSYDSLADHSGQEDE  
EWLSQVEIVTHTGPHRRLWMGPQFQFKTIHPSGQTTVISSSSSVLQSHGPSDTPQPLLDF  
DTDDLNLNLRIPQVRSDPVSMPGSSRPVSDRRGVSTVIDAASGTFDRSVTLLEVCGSWP  
EGFGLRHMSSMEHTEEGLRERLADAMAESPVRDVGSGTELQREGSIETLSNSSGSTSGS  
IPRNF DGYSPLPTNESQPLSLFPTGFP

>sp|Q4VC05|BCL7A\_HUMAN B-cell CLL/lymphoma 7 protein family member A OS=Homo sapiens  
GN=BCL7A PE=1 SV=1

MSGRSVRAETRSRAKDDIKRVMAAIEKVRKWEKKWVTVGDTSLRIYKWVPVTEPKVDDKN  
KNKKKGKDEKCGSEVTPPENSSSPGMMDMHDNSNQSSIADASPIKQENSSNSSPAPEPN  
SAVPSDGTAKVDEAQADGKEHPGAEDASDEQNSQSSMEHSMNSSEKVD RQPSGDSGLAA  
ETSAISQDLEGVPPSKMKLEASQQNSEEM

>sp|Q86UU0|BCL9L\_HUMAN B-cell CLL/lymphoma 9-like protein OS=Homo sapiens GN=BCL9L PE=1  
SV=1

MRILANKTRLPHPRRREAPGSPPLSPRGHCPPAPAKPMHPENKLTNHGKTGNGGAQSQH  
NVNQGP TCNVGSKGVGAGNHGAKANQISPSNSSLKNPQAGVPPFSSLKGVKRD RSVSVD  
SGEQREAGTPSLDSEAKEVAPRSKRRCVLERKQPYSGDEWCSPDSEEDDKPIGATHCN  
VADPAMAAPQLGPGQTTQLP LSESSVPGAPHGPPPGLRPDAPGGGGGGGVPGKPPSQFV  
YVFTTHLANTA AEAVLQGRADSLAYHQNVPRAKLDQAPKVPPTPEPLPLSTPSAGTPQ  
SQPPPLPPPPPPAPGSAPPALPPEGPPEDSSQDLAPNSVGAASTGGGTGGTHPNTPTATT  
ANNPLPPGGDPSSAPGPALLGEAAAPGNGQ RSLVGSEGLSKEQLEHRERSLQTLRDIERL  
LLRSGETEPFLKGPPGGAGEGGPPAQAPPPQPPPTAPPSGLKKYEEPLQSMISQTQSLG  
GPPLHEVP GHPPGGDMGQQMNM MIQRLGQDSLTP EQVAWRKLQEEYEEKRRKEEQIGL



HGSRPLQDMMGMGMMVRGPPPPYHSKPGDQWPPGMGAQLRGPMQDQDPMQLRGPPFPFG  
PRFPGNQIQRVPGFGGMQSMPMEVPMNAMQRPVVRPGMGWTEDLPPMGGPSNFAQNTMPYP  
GGQGEAERFMTPRVREELLRHQLLEKRSMMQRPLGMAGSGMGQSMEMERMMQAHQMDP  
AMFPGQMAGGEGLAGTPMGMEFGGGRGLLSPPMGQSGLEVDPPMGPGNLNMNMNVNMNM  
NMNLNVQMTPTQQMLMSQKMRGPGDLMGPQGLSPEEMARVRAQNSSGVMGGPQKMLMPSQ  
FPNQGGQGFSGGGQGPYQAMSQDMGNTQDMFSPDQSSMPMSNVGTTRL SHMPLPPASNPPG  
TVHSAPNRGLGRRPSDLTISINQMGSPGMGHLKSPTLSQVHSPLVTSPSANLKSPQTPSQ  
MVPLPSANPPGPLKSPQVLGSSLSVRSPTGSPSRLKSPMAVPSPGWVASPKTAMPSPGV  
SQNKQPPLNMNSSTLSNMEQGTLPSSGPRSSSSAPPANPPSGLMNPSPFTSSPDPTPS  
QNPLSLMMTQMSKYAMPSSSTPLYHNAIKTIATSDDELLPDRPLPPPPPPQGSQGISNS  
QPSQMLNSAAAQSPMGMLPGQQPLSHEPPPAMLPSPTPLGSNIPLHPNAQGTGGPPQN  
SMMAPGGPDSLAPCGVPVSSSQMPPFPRLQQPHGAMAPTGGGGGGPGLQQHYPSGMA  
LPPEDLPNQPPGMPQQHLMGKAMAGRMGDAYPPGVLPGVASVLNDPELSEVIRPTPTG  
IPEFDSLRIIPSEKPSSTLQYFPKSENQPPKAQPPNLHLMNLQNMMAEQTPSRPPNLPQQ  
QGVQRGLNMSMCHPGQMSLLGRTGVPPQQGMVPHLHQGVMSPPQGLMTQQNFMLMKQRG  
VGGEVYSQPPHMLSPQGSMLGPPPPQNLMSHPLRQRSVSLDSQMGYLPAPGGMANLPF

>sp|Q5H9F3|BCORL\_HUMAN BCL-6 corepressor-like protein 1 OS=Homo sapiens GN=BCORL1 PE=1  
SV=1

MISTAPLYSGVHNWTSDDRIRMCGINEERRAPLSDEESTTGDCQHFGSQEFCVSSSFQSKV  
ELTAVGSGSNARGADPDGSATEKLGHKSEDKPDDPQPKMDYAGNVAEAEGLVPLSSPGD  
GLKLPAASDAEASNSRADCSWTPLNTQMSKQVDCSPAGVKALDSRQGVGEKNTFILATLG  
TGVPVEGTLPLVTTNFSPLPAPICPPAPGSASVPHSVPDFQVPLSVPAPVPHSGLVPVQ  
VATSVPAAPSPPLAPVPALAPAPPSVPTLISDSNPLSVSASVLVPVPASAPPSGPVPLSAP  
APAPLSVPVSAPPLALIQAAPVPSAPTLVLAPVPTPVLAPMPASTPPAAPAPPSVPMPTP  
TPSSGPPSTPTLIPAFAPTVPAPTAPAIPTAPTMPAATPAAIPTSAIPASFSLSRV  
CFPAAQAPAMQKVPLSFQPGTVLTPSQPLVYIPPPSCGQPLSVATLPTTLGVSSTLTLPV  
LPSYLQDRCLPGVLASPELRSYPYAFSVARPLTSDSKLVSEVNRLPCTSPSGSTTTQPA  
PDGVPGLADTSLVTASAKVLPTPQPLLPAPSGSSAPHPAKMPSGTEQQTEGTSVTFSP  
LKSPQLEREMASPECEEMPLDLSSKSNRQKLPLPNQRKTPMPVLPVHTSSKALLST  
VLSRSQRTTQAAGGNVTSCLGSTSSPFVIFPEIVRNGDPSTWVKNSTALISTIPGTYYGV  
ANVPASLLLKNKDPNLGLNRDPRHLPKQEPISIIDQGEKGTGATCGKKGSQAGAEGQPS  
TVKRYTPARIAPGLPGCQTKELSLWKPTGPANIYPRCSVNGKPTSTQVLPVGWSPYHQAS  
LLSIGISSAGQLTPSQGAPIRPTSVVSEFSGVPSLSSSEAVHGLPEGQPRPGGSFVPEQD  
PVTKNKTCRIAAKPYEEQVNPVLLTSPQTGTLLSVQPSGGDIRMNQGPPEESESHELLCSD  
STPKMEGPQGACGLKLADTKPNQVLATYMSHELVLATPQNLKMPPELPLPHDSHPKE  
LILDVVPSSRRGSSTERPQLGSQVDLGRVKMEKVDGDVVFNLATCFRADGLPVAPQRGQA  
EVRAKAGQARVKQESVGVFACKNKWQPDDVTESLPPKKMKCGKEKDSEEQLQPQAKAVV  
RSSHRPKCRKLPSDPQESTKKSPPRGASDSGKEHNGVRGKHHRKPTKPESQSPGKRADSH  
EEGSLEKKAKSSFRDFIPVVLSTRTRSQSGSICSSFAGMADSDMGSEQVFPTEEEEVTP  
TPAKRRKVRKTQRDTQYRSHHAQDKSLLSQGRRHLWRAREMPWRTEAARQMWDNTEEEEE  
EEEEGLLKRKKRRRQKSRKYQTGEYLTEQEQRRKGRADLKARKQKTSSSQSLEHRLRN  
RNLLLPNKVQGIDSPPNGFLPNNLEEPACLENSEKPSGKRKCKTKHMAVTVSEEAKDVVLY  
CLQKDESDVNRDNAGYTALHEACSRGWDILNILLEHGANVNCSAQDGTTPVHDAVVND  
NLETIWLLL SYGADPTLATYSGQTAMKLASSDTMKRFLSDHLSDLQGRAEGDPGVSWDFY

SSSVLEEKDGFACDLLHNPPGSSDQEGDDPMEEDDFMFELSDKPLLPCYNLQVSVSRGPC  
NWFVSDVLKRLKSSRIFQARFPHFEITTMPKAEFYRQVASSQLLTPAERPGLDDRSP  
PGSSETVELVRYEPDLLRLLGSEVEFQSCNS

>sp|Q9BUH8|BEGIN\_HUMAN Brain-enriched guanylate kinase-associated protein OS=Homo sapiens  
GN=BEGAIN PE=1 SV=1

MEKLSALQEQKGELRKRLSYTHKLEKLETEFDSTRHYLEIELRRAQEELEKVTEKLRRRI  
QSNYMALQRINQELEDKLYRMGQHYTEEEKRALSHEIVALNSHLLAKVTIDKLSEDNELY  
RKDCNLAAQLLQCSQTYGRVHKVSELP SDFQERVSLHMEKHGCSLPSPLCHPAYADSVPT  
CVIAKVLKPDPASSLSSRLSDASARDLAFCDGVEKPGPRPPYKGDIIYCSDTALYCPEERR  
RDRRPSVDAPVTDVGFLRAQNSTDAAEEEEEAFAFPAGFQHEAFPSYAGSLPTSSSY  
SSFSATSEEKEHAQASTLTASQQAITYLNSRDELFDKPPATTYEGSPRFAKATAAFAAPL  
EAEVAPGFGRTMSPYPAETFRFPASPGPQQALMPPNLWSLRAKPGTARLPGEDMRGQWRP  
LSVEDIGAYSYPVSAAGRASPCSFSEYRYGGAGGSPGKKADGRASPLYASYKADSFSEGD  
DLSQGHLEAEPFLRAGGDLSLSPGRSADPLPGYAPSEGGDGDRLGVQLCGTASSPEPEQG  
SRDSLEPSSMEASPEMHPAARLSPQQAFPRGTGGSLSRKDSLTKAQLYGTLLN

>sp|Q5SZJ8|BEND6\_HUMAN BEN domain-containing protein 6 OS=Homo sapiens GN=BEND6 PE=1 SV=2  
MQKIVQTDEITNTQAFRKGKRKTETMDSENANSMDKGGQRPYSGNAFLPGESSSEDEE  
PLAELSKEELCAIKSLKEKLTNTRKENSRLRQSLVMLQVLPQAVTQFEELVGMAEALLK  
GGGTMTSASTLWRATNNSPDSFASTCSNSNSNSSSPVSLKPEEEHQTDEKQFQIEKWQ  
IARCNKSKPQKFINDLMQVLYTNEYMATHSLTGAKSSTSRDKAVKPA MNQNEVQEIIIGVT  
KQLFPNTDDVSIRRMIGQKLNNCTKKPNLSKNLNSQDIK

>sp|Q9HBH7|BEX1\_HUMAN Protein BEX1 OS=Homo sapiens GN=BEX1 PE=1 SV=2  
MESKEKRAVNSLSMENANQENEEKEQVANKGEPLALPLDAGEYCVPRGNRRRRFRVRQPIL  
QYRWDMHRLGEPQARMREENMERIGEVRQLMEKLREKQLSHSLRAVSTDPPHDHHDE  
FCLMP

>sp|P16442|BGAT\_HUMAN Histo-blood group ABO system transferase OS=Homo sapiens GN=ABO  
PE=1 SV=2

MAEVLRTLAKGPKCHALRPMILFLIMLVLVLFYGVLSRSLMPGSLERGFCAVREPDH  
LQRVSLPRMVYPQPKVLTPCRKDVLVVTPWLAPIVWEGTFNIDILNEQFRLQNTTIGLTV  
FAIKKYVAFLKLFLETAEKHFMVGHVRVHYVFTDQPAAPVPRVTLGTGRQLSVLEVRAVKR  
WQDVSMRRMEMISDFCERRFLSEVDYLVCDVDMEFRDHVGEILTPLFGTLHPGFYGS  
REAFTYERRPQSQAYIPKDEGDFYLLGGFFGGSVQEVQRLTRACHQAMMVDQANGIEAVW  
HDESHLNKYLLRHKPTKVLSP EYLWDQQLGWPAVLRKLRFTAVPKNHQAVRNP

>sp|Q7RTS1|BHA15\_HUMAN Class A basic helix-loop-helix protein 15 OS=Homo sapiens  
GN=BHLHA15 PE=1 SV=1

MKTKNRPPRRRAPVQDTEATPGEPTDGSLPNPGPEPAKGLRSRPARAAARAPGEGRRRR  
PGPSGPGGRRDSSIQRRLSENERERQRMHKLNNAFQALREVIPHVRADKKLSKIETLTLA  
KNYIKSLTATILTMSSRLPGLEGPGPKLYQHYQQQQVAGGALGATEAQPQGHLLQRYST  
QIHSFREGT

>sp|Q9C0J9|BHE41\_HUMAN Class E basic helix-loop-helix protein 41 OS=Homo sapiens  
GN=BHLHE41 PE=1 SV=1

MDEGIHQLQERQLLEHRDFIGLDYSSLYMCKPKRSMKRDDTKDITYKLPHRLIEKKRRDRI  
NECIAQLKDLLPEHLKLTTLGHLEKAVVLELTLKHLKALTALTEQQHQKIIALQNGERSL  
KSPIQSDLDAFHSGFQTCAKEVLQYLSRFESWTPREPRCVQLINHLHAVATQFLPTPQLL

MEPGAGGRNTARAQRAGSPNTPPPPEQERKLEQEKLSGVVKS VHRRLRKKYREVGDFDKI  
WREHCEDEETLCEYAVAMKNLADNHWAKTCEGEGRIEWCCSVCREYFQNGGKRKALEKDE

KRAVLATKTTPALNMHESSQLEGHLTNLSFTNPEFITELLQASGKIRLLDVGSCFNPFLK  
FEEFLTVGIDIVPAVESVYKCDFNLQLQQPLQLAQDAIDAFLKQLKNPIDSLPGELFHV  
VVFSLLSYFSPSPYQRWICCKKAHELLVLNGLLLIITPDSSHQNRHAMMMKSWKIAIESL  
GFKRFKYSKFSHMLMAFRKISLKTTSDLVSRNYPGMLYIPQDFNSIEDEEYSNPSCYVR  
SDIEDEQLAYGFTELPDAPYDSDSGESQASSIPFYELEDPILLLS

>sp|P51813|BMX\_HUMAN Cytoplasmic tyrosine-protein kinase BMX OS=Homo sapiens GN=BMX PE=1  
SV=1

MDTKSILEELLKRSQQKKKMSPNNYKERLFLVTKTNLSYVEYDKMKRGSRKGSIEIKKI  
RCVEKVNLEEQTVERQYPFQIVYKDGLLYVYASNEESRSQWLKALQKEIRGNPHLLVKY  
HSGFFVDGKFLCCQQSCKAAPGCTLWEAYANLHTAVNEEKHRVPTFPDRVLIKIPRAVPVL  
KMDAPSSSTTLAQYDNESKKNYGSQPPSSSTSLAQYDSNSKKIYGSQPNFMQYIPREDF  
PDWWQVRKLKSSSSSEDVASSNQKERNVNHTTSKISWEFPSSSSSEEEENLDDYDWFAGN  
ISRSQSEQLLRQKGKEGAFMVRNSSQVGMVTVSLFSKAVNDKKGTVKHVHTNAENKLY  
LAENYCFDSIPKLHYHQHNSAGMITRLRHPVSTKANKVPDSVSLGNGIWELKREEITLL  
KELGSGQFGVVQLGKWKQYDVAVKMIKEGSMSEDEFFQEAQTMMKLSHPKLVKFYGVCS  
KEYPIYIVTEYISNGCLLNLYLRSHGKGLEPSQLLEMCYDVCEGMAFLESHQFIHRDLAAR  
NCLVDRDLCKVVSDFGMTRYVLDDQYVSSVGTGKFPVKWSAPEVFHYFKYSSKSDVWAFGI  
LMWEVFSLGKQPYDLYDNSQVVLKVSQGHRLYRPHLASDTIYQIMYSCWHELPEKRPTFQ  
QLLSSIEPLREKDKH

>sp|Q9BWV1|BOC\_HUMAN Brother of CDO OS=Homo sapiens GN=BOC PE=1 SV=1

MLRGMTAWRGMRPEVTLACLLATAGCFADLNEVPQVTVQPASTVQKPGGTIVILGCVVE  
PPRMNVTWRLNGKELNGSDDALGVLITHGTLVITALNNHTVGRYQCVARMPAGAVASVPA  
TVTLANLQDFKLDVQHVEVDEGNTAVIACHLPESHKPAQVRYSVKQEWLEASRGNYLIM  
PSGNLQIVNASQEDEGMYKCAAYNPVTQEVKTSGSSDRLRVRRSTAEAAARIITYPEAQTI  
IVTKGQSLILECVASGIPPPRVTWAKDGSSVTGYNKTRFLLSNLLIDTTSEEDSGTYRCM  
ADNGVGQPGAIVILYNVQVFEPPEVTMELSQLVIPWGQSAKLTCVRGNPPPSVLWLRNA  
VPLISSQRLRLSRRALRVLSMGPEDEGVYQCAENEVGSAAVAVQLRTSRPSITPRLWQD  
AELATGTTPVSPSKLGNPEQMLRGQPALPRPPTSVGPASPQCPGEGKGAPAEAPIILSS  
PRTSKTDSYELVWRPRHEGSGRAPILYYVVKHRKVTNSSDDWTISGIPANQHRLTLTRLD  
PGSLYEVEMAAYNCAGEGQTAMVTFRTGRRPKPEIMASKEQQIQRDDPGASQSSSQPDH  
GRLSPPEAPDRPTISTASETSVYVTWIPRGNGGFPIQSFRVEYKKLKKVGDWILATSAIP  
PSRLSVEITGLEKGTSYKFRVRALNMLGESEPSAPSRPVVSGYSGRVYERPVAGPYITF  
TDAVNETTIMLKWMIYPASNNNTPIHGFYIYRPTSDNDSYKMDMEGDKYWHSISHL  
QPETSYDIKMQCFNEGGESEFSNMVICETKARKSSGQPGRLPPPTLAPPQPPLPETIERP  
VGTGAMVARSSDLPYLIVGVVLGSIVLIIVTFIPFCLWRAWSKQKHTTDLGFPRALPPS  
CPYTMVPLGGLPGHQASGQPYLSGISGRACANGIHMNRGCPSAAVGYPGMKPQQHCPGEL  
QQQSDTSSLLRQTHLGNGYDPQSHQITRGPKSSPDEGSFLYTLRDDSTHQLLQPHHDCCQ  
RQEQAAPAVGQSGVRRAPDSPVLEAVWDPPFHSPPCCLGLVPVEEVDSPDSCQVSGGDWC  
PQHPVGAYVGQEPGMQLSPGPLVRVSFETPPLTI

>sp|Q96IK1|BOD1\_HUMAN Biorientation of chromosomes in cell division protein 1 OS=Homo  
sapiens GN=BOD1 PE=1 SV=2

MADGGGGGGTGAVGGGGTSQASAGAATGATGASGGGGPINPASLPPGDPQLIALIVEQLK  
SRGLFDSFRRDCLADVDTKPAYQNLQKVDNFVSTHLDKQEWNPMTMKNQLRNLGRQSVV  
QSGMLEAGVDRIISQVVDPKLNHIFRPQIERAIEFLAAQKKAAPAPPPPEPEGQDPPAP

SQDTS

>sp|Q9BQP9|BPIA3\_HUMAN BPI fold-containing family A member 3 OS=Homo sapiens GN=BPIFA3  
PE=2 SV=3

MMCPLWRLLIFLGLLALPLAPHKQWPWGLAQHRDNKSTLARIIAQGLIKHNAESRIQNI  
HFGDRLNASAQVAPGLVGWLISGRKHQQQESSINITNIQLDCGGIQISFHKWFSANIS  
LEFDLELRPSFDNNIVKMAHMSIVVEFWLEKDEFGRDLVIGKCDAPSSVHVAILTEA  
IPPMNQFLYNLKENLQKVLPHMVESQVCPLIGEILGQLDVKLLKSLEQEAHEPTHHE  
TSQPSACQAGESPS

>sp|P50747|BPL1\_HUMAN Biotin--protein ligase OS=Homo sapiens GN=HLCS PE=1 SV=1

MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMH  
VGRDDPKALGEEKRRGSASGSEPAGDSRGGGPVEHYHLHLSSCHECLEENSTIESV  
KFASAENIPDLPYDSSLESVADETSPEREGRRVNLTKAPNILLYVGSDSQEALGRFH  
EVRSVLADCVDIDSYILYHLLDSALRDPWTDNCLLLVIATRESIPEDLYQKFMAVLSQG  
GKVLGLSSSFTFGGFQVTSKGALHKTQNLVFSKADQSEVKLSVLSSGCRYQEGPVRLSP  
GRLQGHLENEKDRMIVHVPFGTRGGEAVLCQVHLELPSSNIVQTPEDFNLLKSNFR  
YEVLRILTTGLSCDMKQVPALTPLYLLSAAEEIRDPLMQWLGHVDSEGEIKSGQLSL  
RFVSSYVSEVEITPSCIPVVTNMEAFSSEHFNLEIYRQNLQTKQLGKVLFAEVTPTMR  
LLDGLMFQTPQEMGLIVIAARQTEGKGRGGNVWLSPVGCALSTLLISIPLSQLGQRIPF  
VQHLMVAVVEAVRSIPEYQDINLRVKWPNDIYSDLMKIGGVLVNSTLMGETFYILIGC  
GFNVTNSNPTICINDLITEYNKQHAELKPLRADYLIARVVTVEKLIKQFQDKGPNSVL  
PLYRYVWVHSGQVHLGSAEGPKVSIVGLDDSGFLQVHQEGGEVTVHPDGNSFDMRLNL  
ILPKRR

>sp|P46736|BRCC3\_HUMAN Lys-63-specific deubiquitinase BRCC36 OS=Homo sapiens GN=BRCC3  
PE=1 SV=2

MAVQVVQAVQAVHLESDAFLVCLNHALSTEKEEVMGLCIGELNDDTRSDSKFAYTGTEMR  
TVAEKVDVAVRIVIHISVILRRSDKRKDRVEISPEQLSAASTEAEERLAELTGRPMRVVGW  
YHSHPHITVWPSHVDVRTQAMYQMDQGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQK  
SSESLHGPRDFWSSQHISIEGQKEEERYERIEIPIHIVPHVTIGKVCLESAVELPKILC  
QEEQDAYRRIHSLTHLDSVTKIHNQSVFTKNLCSQMSAVSGPLLQWLEDRLEQNQQHLQE  
LQKEKEELMQELSSLE

>sp|P25440|BRD2\_HUMAN Bromodomain-containing protein 2 OS=Homo sapiens GN=BRD2 PE=1 SV=2

MLQNVTPHNKLPGEAGNAGLLGLGPEAAAPGKRIRKPSLLYEGFESPTMASVPALQLTPAN  
PPPPEVSNPKKGRVTNQLQYLHKVVMKALWKHQFAWPFRQPVDAVKLGLPDYHKIIKQP  
MDMGTIKRRENNYYWAASECMDQFNTMFTNCYIYNKPTDDIVLMAQTLEKIFLQKVASM  
PQEEQELVVTIPKNSHKKGAKLAALQGSVTSAHQVPAVSSVSHTALYTPPEIPTTVLNI  
PHPSVISSPLLKSLHSAGPPLAVTAAPPAQPLAKKGVKRKADTTTPTPTAILAPGSPA  
SPPGSLEPKAARLPMPRESGRPIKPPRKDLPSQQQHQSCKGKLEQLKHCNGILKEL  
LSKKHAAYAWPFYKVPDASALGLHDYHDIKHPMDLSTVKKRMENRDYRDAQEFAADVRL  
MFSNCKYNPPDHDVVAMARKLQDVFEFRYAKMPDEPLEPGPLPVSTAMPPGLAKSSSES  
SSESSSSSSSEEEEEDEDEEEEESESSDSEERAHRLAELQEQLRAVHEQLAALSQG  
PISKPKRKREKKEKKKKRKAEKHRGRAGADEDDKGPRAPRPPQPKSKKASGSGGSAAL  
GPSGFGPSGGSGTKLPKKATKTAPPALPTGYDSEEEESRPMYDEKRLSLDINKLPGE  
KLGRVVHIIQAREPSLRDSNPTEEIDFETLKPSTLRELERYVLSCLRKKPRKPYTIKKP  
VGKTKEELALEKKRELEKRLQDVSGQLNSTKKPPKANNEKTESSSAQQVAVSRLSASSSS

SDSSSSSSSSSDTSDSDSG

>sp|Q9H8M2|BRD9\_HUMAN Bromodomain-containing protein 9 OS=Homo sapiens GN=BRD9 PE=1 SV=2

MGKKHKHKAERSSYEDYADKPLEKPLKLVKVGSEVTELSGSGHDSSYYDDRSHER  
ERHKEKKKKKKSEKEKHLDDERRKRKEEKKRKREREHCDTEGEADDFDPGKKVEVEP  
PPDRPVRACTQPAENESTPIQQLLEHFLRQLQRKDPHGFFAFPVTDAIAPGYSMIIKHP  
MDFGTMKDKIVANEYKSVTEFKADFKLMCDNAMTYNRPDVTYYKLAKKILHAGFKMMSKQ  
AALLGNEDTAVEEPVPEVVPVQVETAKSKKPSREVISCMFEPEGNACSLTDSTAEHV  
ALVEHAADRDNRINRFLPGGKMGYLRNGDGSLLYSVVNTAEPDADEEETHPVDLSSLS  
SKLLPGFTTLGFKDERRNKVTFLLSATTALSMQNNVFGDLKSDMELLYSAYGDETVGQ  
CALSLQEFVKDAGSYSKKVVDLLDQITGGDHSRTLFQLKQRRNVPMPKPPDEAKVGD  
TLG DSSSVLEFMSMKSYPDVSDISMLSSLGKVKELDPDDSHLNLDDETTKLLQDL  
HEAQAE RGGSRPSSNLSSLSNASERDQHHLGSPSRLSVGEQPDVTHDPYEF  
LQSPEPAASAKT

>sp|Q58F21|BRDT\_HUMAN Bromodomain testis-specific protein OS=Homo sapiens GN=BRDT PE=1 SV=4

MSLPSRQTAIIVNPPPEYINTKKNRGLTNQLQYLQKVVLKDLWKHSFSWPFQRPVDAVK  
LQLPDYTTIIKNPMDLNTIKKRLNKKYAKASECIEDFNTMFSNLYNKPGLDIVLMAQ  
ALEKLFMQKLSQMPQEEQVVGKERIKKGTQQNIAVSSAKEKSSPSATEKVFKQEI  
PSV FPKTISISPLNVVQASVNSSSQTAQVTKGVKRAKADTTTPATSAVKASSEFSPTFTEKSV  
ALPPIKENMPKNVLPDSQQQYNVVKTVKVTQLRHCSEILKEMLAKKHFSYAWPFYNPVD  
VNALGLHNYDVVKNPMDLGTIKEKMDNQEKDAYKFAADVRLFMNCKYNPPDHEVVT  
MARMLQDVFETHFSKIPIEPVESMPLCYIKTDITETTGRENTNEASSEGNSSDDSEDERV  
KRLAKLQEQKAVHQQQLQVLSQVPFRKLNKKKEKSKKEKKKEKVNNSNENPRKMCEQ  
MRL KEKSKRNQPKKRKQFIFGLKSEDEDNAKPMNYDEKRLSLNINKLPGDKLGRV  
VHI IQSR EPSLSNSNPDEIEIDFETLKASTLRELEKYVSACLRKRPLKPPAKKIMMSKEELHSQKKQ  
ELEKRLLDVNNQLNSRKRQTKSDKTQPSKAVERNVSRLSESSSSSSSSSESSSSDLSSS  
DSSDSESEMFPKFTEVKNPNDSPSKENVKMKNECIPPEGRTGVTQIGYCVQDTTSANTTL  
VHQTTPSHVMPNHHQLAFNYQEHLQTVKNISPLQILPPSGDSEQLSNGITVMHPSGD  
SDTTMLESECAPVQKDIKKNADSWKSLGKPVKPSGVMKSSDELFNQFRKAAIEKEVKA  
RTQELIRKHLEQNTKELKASQENQRDLGNGLTVESFSNKIQNKCSGEEQKEHQSS  
SEAQD KSKLWLLKDRDLARQKEQERRRREAMVGTIDMTLQSDIMTFENNFD

>sp|Q96KV6|BT2A3\_HUMAN Putative butyrophilin subfamily 2 member A3 OS=Homo sapiens GN=BTN2A3P PE=5 SV=2

MEPAAALHFSRPASLLLLSLCALVSAQVTVVGPTDPILAMVGENTTLRCCLSPREENAED  
MEVRWFQSQFSPAVFVYKGGRETEREEQKEEYRGRTTFVSKDSRGSVALIIHNVT  
AEDNGI YQCYFQEGRSCNEAILHLVVAGLDSEPVIEMRDHEDGGIQCISGGWYPKPLTVWRDPY  
GEVVPALKEVSTPDADSLFMVTTAVIIRDKSVRNVSCSINDTLLGQKKESVIFIPESFMP  
SRSPCVVILPVIIMILMIPAIACIYWINNLQKEKKDSHLMTFNLCLSLAGWRRTFLHAAN  
VVLDQDTGHPYLFVSEDKRSVTLDPRESIPGNPERFDSQLCVLGQESFASGKHYLEVDV  
ENVIEWTVGICRDNVERKWEVPLLPQNGFWTLEMHKRYWALTSKWLISLEEPLCQVGI  
FLDYEAGDVSYFNMRDRSHIYTFPHSAFVSPVRPFFSLGSYDSQILICSFTGASGVTVP  
EEGWTLHRAGTHHSPQNQFPSLTAMETSPGHLSSHCTMPLVEDTPSSPLVTQENIFQLPL  
SHPLQTSAPVHLLIRCGFSSSFGCNYGMESRHRELVPVQLPARKKV

>sp|O00481|BT3A1\_HUMAN Butyrophilin subfamily 3 member A1 OS=Homo sapiens GN=BTN3A1 PE=1 SV=3

MKMASFLAFLLLNFRVCLLLLQLMPHSAQFSVLGSPGILAMVGEDADLPCHLFPTMSA  
ETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASD  
SGKYLCYFQDGFYEKALVELKVAALGSDLHVDVKGKGGIHLECRSTGWYPQPQIQWS  
NNKGENIPTVEAPVADGVGLYAVAASVIMRGSSGEGVSCITRSSLLGLEKTASISIAADP  
FFRSAQRWIAALAGTLPVLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMKQ  
EQSTRVKLLEELRWRISIQYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQR  
SVQRAKEPQDLPDNPFRFNWHYCVLGCESFISGRHYWEVEVGDRKEWHIGVCSKNVQRKG  
WVKMTPENGFWTMGLTDGNKYRTLTEPRTNLKLPKPPKVGFLDYETGDISFYNAVDGS  
HIHTFLDVSFSEALYPVFRILTLEPTALTICPA

>sp|000478|BT3A3\_HUMAN Butyrophilin subfamily 3 member A3 OS=Homo sapiens GN=BTN3A3 PE=1  
SV=1

MKMASSLAFLLLNFHVSFLVQLLTPCSAQFSVLGSPGILAMVGEDADLPCHLFPTMSA  
ETMELRWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASD  
SGKYLCYFQDGFYEKALVELKVAALGSDLHIEVKGYEDGGIHLECRSTGWYPQPQIKWS  
DTKGENIPAVEAPVADGVGLYAVAASVIMRGSSGGVSCIIRNSLLGLEKTASISIAADP  
FFRSAQPWIAALAGTLPISLLLLAGASYFLWRQQKEKIALSRETEREREMKEMGYAATEQ  
EISLREKLQEELKWRKIQYMARGEKSLAYHEWKMALFKPADVILDPDTANAILLVSEDQR  
SVQRAEEPRDLPDNPFRFEWRYCVLGCENFTSGRHYWEVEVGDRKEWHIGVCSKNVERKK  
GWVKMTPENGWYTMGLTDGNKYRALTEPRTNLKLPKPPKVGIFLDYETGEISFYNATDG  
SHIYTFPHASFSEPLYPVFRILTLEPTALTICPIKEVESSPDPLVPDHSLETPLTPGL  
ANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHKLQARTEALY

>sp|Q8WXE1|ATRIP\_HUMAN ATR-interacting protein OS=Homo sapiens GN=ATRIP PE=1 SV=1

MAGTSAPGSKRRSEPPAPRPGPPPGTGHPPSKRARGFSAAAAPDPDDPFGAHGDFDADDL  
EELDTLASQALSQCPAAARDVSSDHKVRLLDGMSSKNPSGKNRETVPIKDNFELEVLQAQ  
YKELKEKMKVMEEEVLKNGEIKILRDSLHQTESVLEEQRSSHFLLEQEKTQALSDKEKE  
FSKKLQSLQSELQFKDAEMNELRTKLQTSERANKLAAPSVSHVSPRKNPSVVIKPEACSP  
QFGKTSFPTKESFSANMSLPHPCQTESGYKPLVGREDSKPHSLRGDSIKQEEAQKSFVDS  
WRQRSNTQGSILINLLKQPLIPGSSLSLCHLLSSSSESPAGTPLQPPGFGSTLAGMSGL  
RTTGSYDGSFSLALREAQNLAFGLNLVARNECSRGDPAEGGRRAFPLCQLPGAVHFL  
PLVQFFIGLHCQALQDLAAAKRSGAPGDSPTHSSCVSSGVETNPEDSVCILEGFSVTALS  
ILQHLVCHSGAVVSLLSGVGADSAAGEGNRSLVHRLSDGDMTSALRGVADDQGGHPLLK  
MLLHLLAFSSAATGHLQASVLTQCLKVLKLAENTSCDFLPRFQCVFQVLPKCLSPETPL  
PSVLLAVELLSLLADHDQLAPQLCSHSEGCLLLLLYMYITSRPDRVALETQWLQLEQEVV  
WLLAKLGVQSPLPPVTGSNCQCNEVVRLTVMLHRQWLTVRAGGPRTDQQRRTVRCL  
RDTVLLHGLSQDKLFLMMHCVEVLHQFDQVMPGVSMILRGLPDVTDCEEALDDLCAAE  
TDVEDPEVECG

>sp|P46100|ATRX\_HUMAN Transcriptional regulator ATRX OS=Homo sapiens GN=ATRX PE=1 SV=5

MTAEPMSSEKLNLTQKLHDLAHSSESEETSSPPRLAMNQNTDKISGSGSNSDMMENS  
KEEGTSSSEKSSSGSSRSKRKPSIVTKYVESDDEKPLDDETVNEDASNENSENDITMQS  
LPKGTIVIVQPEPVLNEDKDDFKGPEFRSRSKMKTENLKKRGEDGLHGIVSCTACGQQVNH  
FQKDSIYRHPSLQVLICKNCFKYMSDDISRSDGMDQCRWCAEGGNLICCDFCHNAFC  
KKCILRNLGRKELSTIMDENNQWYCYICHPEPLDLVTACNSVFENLEQLLQNKKKIKV  
DSEKSNKVYEHTSRFSPKKTSSNCNGEEKLDDSCSGSVTYSYSALIVPKEMIKKAKKLI  
ETTANMNSSYVKFLKQATDNSEISSATKLRLKAFKSVLADIKKAHLALEEDLNSEFRAM

DAVNKEKNTKEHKVIDAKFETKARKGEKPCALEKKDISKSEAKLSRKQVDSEHMHQNVPT  
EEQRTNKSTGGEHKKSDRKEEPQYEPANTSDELMDIVSVPSSVPEDIFENLETAMEVQS  
SVDHQDGDSSGTEQEVESSSVKLNISSKDNRRGGIKSKTTAKVTKELYVKLTPVSLSNSPI  
KGADCQEVPPQDKDGYKSCGLNPKLEKCGLGQENSNEHLVENEVSLLEESDLRRSPRVK  
TTPLRRPTETNPVTSNSDEECNETVKEKQKLSVPVRKKDKRNSSDSAIDNPKPNKLPKSK  
QSETVDQNSDSDEMLAILKEVSRMSHSSSSDTDINEIHTNHKTLYDLKTQAGKDDKGKRRK  
RKSSTSGSDFDTKKGKSAKSSIISSKKRQTQSESSNYDSELEKEIKSMKIGAARTTKKR  
IPNTKDFDSEDEKHSKKGMDNQGHKNLKTSQEGSSDDAERKQERETFSSAEGTVDKDTT  
IMELRDLRPLPKKQASASTDGVDKLSGKEQSFTSLEVRKVAETKEKSKHLKTKTCKKVQDG  
LSDIAEKFLKKDQSDETSEDDKKQSKKGTEKKKPSDFKKKVIKMEQQYESSSDGTEKLP  
EREEICHFPKGIKQIKNGTTDGEKKSKKIRDKTSKKKDELSDYAEKSTGKGDCDSSSEDK  
KSKNGAYGREKKRCKLLGKSSRKRQDCSSSDTEKYSMKEDGCNSSDKRLKRIELRERRNL  
SSKRNTKEIQSGSSSSDAEESSEDNKKKKQRTSSKKKAVIVKEKKRNSLRTSTKRKQADI  
TSSSSSDIEDDDQNSIGEGSSDEQKIKPVTENLVLSSHTGFCQSSGDEALSKSVPTVDD  
DDDDNDPENRIAKKMLLEEIKANLSSDEDGSSDDEPEEGKRTGKQNEENPGDEEAKNQV  
NSESDDSEESKKPRYRHLRLRHKLTVSDGESGEEKTKPKEHKEVKGRNRRKVSSSEDSE  
DSDFQESGVSEEVSESEDEQRPRTRSAKKAELEENQRSYKQKKRRRIKVQEDSSSENKS  
NSEEEEEKEEEEEEEEEEEEEEDNDDSKSPGKGRKKIRKILKDDKLRTETQNALKEE  
EERRKRIAEREREREKLREVIEIEDASPTKCPITTKLVLEDEETKEPLVQVHRNMVIL  
KPHQVDGVQFMWDCCCESVKTKKSPGSGCILAHCMLGKTLQVVSFLHTVLLCDKLDFS  
TALVVCPLNTALNWMNEFEKWQEGLDDEKLEVSELATVKRPQRSYMLQRWQEDGGVMI  
IGYEMYRNLAQGRNVKSRKLKEIFNKALVDPGPDFVVCDEGHILKNEASAVSKAMNSIRS  
RRRIILTGTPLQNNLIEYHCMVNFIKENLLGSIKEFRNRFINPIQNGQCADSTMVDVRVM  
KKRAHILYEMLAGCVQRKDYALTFLPKHEYVLAVRMTSIQCKLYQYYLDHLTGVGNN  
SEGGRGKAGAKLFQDFQMLSRIWTHPWCLQLDYISKENKGYFDEDSMDEFIASDSEDTSM  
SLSSDDYTKKKKKGKKGKDDSSSSGSGSDNDVEVIKVWNSRSRGGGEGNVDETGNPNPSVS  
LKLEESKATSSSNPSSPAPDWYKDFVTDADAEVLEHSGKMVLLFEILMAEEIGDKVLVF  
SQSLISLDLIEDFLELASREKTEDKDKPLIYKGEKWLNRNIDYYRLDGSTTAQSRKKWAE  
EFNDETNRVGRFLFIISTKAGSLGINLVAANRVIIFDASWNPSYDIQSIKFRVYRFGQTKPV  
YVYRFLAQGTMEDKIYDRQVTKQSLSFRVVDQQQVERHFTMNELTELYTFEPDLLDDPNS  
EKKKKRDTPMLPKDTILAELLQIHKHEHIVGYHEHDSLLDHKEEEEELTEEERKAWAAYEA  
EKKGLTMRFNIPGTNLPPVSFNSQTPYIPFNLGALSAMSNQQLLEDLQNGREKVVEATN  
SVTAVRIQPLEDIIASAVKENMNLSEAQVQALALSRQASQELDVKRREAIYNDVLTKQQM  
LISCVQRILMNRRLQQQYNQQQQQMTYQQATLGHLMMPKPPNLIMNPSNYQQIDMRGMY  
QPVAGGMQPPPLQRAPPPMRSKNPGPSQGKSM

>sp|Q8WXS8|ATS14\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 14  
OS=Homo sapiens GN=ADAMTS14 PE=2 SV=2

MAPLRALLSYLLPLHLCALAAAGSRTPELHLSGKLSDYGVTVPCSTDFRGRFLSHVVS  
AAASAGSMVVDTPPTLPRHSSHLRVARSPHPGGTLWPGRVGRHSLYFNVTVFGKELHLR  
LRPNRRLVVPSSVEWQEDFRELFQPLRQECVYTGVTGMPGAVAISNCDGLAGLIRT  
DSTDFFIIEPLERGQKEASGRTHVVYRREAVQQEWAEPDGDLHNEAFGLGDLPNLLGLV  
GDQLGDTERRRHAKEPGSYSIEVLLVDDSVVRFHGKEHVQNYVLTLMNIVDEIYHDESL  
GVHINIALVRLIMVGYRQSLSLIERGNPSRSLEQVCRWAHSQQRQDP SHAHHDHVFLT  
RQDFGPGSGYAPVTGMCHPLRSCALNHEDGFSSAFVIAHETGHVLMGMEHDGQGNCADETS



LGSVMAPLVQAAFHRFHWSRCSKLELSRYLPSYDCLDDPFDPAWPQPPELPGINYSMDE  
QCRDFGSGYQTCLAFRTFEPCKQLWCSHPDNFYFCKTKKGPPLDGTAPGKWCFCGHC  
IWKSPEQTYGQDGGWSSWTKFGSCSRSCGGGVRSRSCNNPSPAYGGRLCLGPMFEYQV  
CNSEECPTYEDFRAQQCAKRNYYVHQNAKHSWVPYEPDDDAQKCELCQSADTGDVVF  
MNQVVHDGTRCSYRDPYSVCARGECVPVGCDEKVGSMKADDKCGVCGDNSHCRTVKGT  
LKASKQAGALKLVQIPAGARHIQIEALEKSPHRIVVKNQVTGSFILNPKGEATSRTFTA  
MGLEWEDAVEDAKESLKTSGPLPEAIAILALPPTTEGGPRSSLAYKYVIHEDLLPLIGSNN  
VLLEEMDTYEWALKSWAPCSKACGGGIQFTKYGCRRRRDHMVQRHLCDHKKRPKPIRRR  
CNQHPCSQPVVWTEEWGACSRSCGKLGVTQTRGIQCLLPLSNGTHKVMKAKAGDRPEAR  
RPCLRVPCPAQWRLGAWSQCSATCGEGIQQRQVVCRTNANSLGHCEGDRPDTVQVCSLPA  
CGGNHQNSTVRADVWELGTPEGQWVPQSEPLHPINKISSTEPCTGDRSVFCQMEVLDRYC  
SIPGYHRLCCVSCIKKASGPNPGDPGPTSLPPFSTPGSPLPGQPDADAAEPPGKPTGS  
EDHQHGRATQLPGALDTSSPGTQHPFAPETPIPGASWSISPTTPGGLPWGWTQTPTPVPE  
DKGQPGEDLRHPGTSLPAASPT

>sp|Q9UKP4|AT57\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 7  
OS=Homo sapiens GN=ADAMTS7 PE=1 SV=2

MPGGPSPRSPAPLLRPLLLLLCALAPGAPGAPGRATEGRAALDIVHPVRVDAGGSFLSY  
ELWPRALRKRDVSVRRDAPAFYELQYRGRELRFNLTAHQHLLAPGFVSETRRRGGLGRAH  
IRAHTPACHLLGEVQDPELEGLAAISACDGLKGVFQLSNEDYFIEPLDSAPARPGHAQP  
HVYKQRQAPERLAQRGDSSAPSTCGVQVYPELESRRERWEQRQQWRRPRLRRLHQRSVSK  
EKWVETLVVADAKMVEYHGQPVESYVLTIMNMVAGLFHDPSIGNPIHITIVRLVLEDE  
EEDLKITHHADNTLSFCKWQKSNMKGDAHPLHHDTAILLTRKDLCAAMNRPCTGLS  
HVAGMCQPHRSCSINEDTGLPLAFTVAHELGHSGFIQHDGSGNDCEPVGKRPFIMSPQLL  
YDAAPLTWSRCSRQYITRFLDRGWGLCLDDPPAKDIIDFPSVPPGVLYDVSHQCRLQYGA  
YSAFCEDMDNVCHTLWCSVGTTCCHSKLDAAVDGTTCGENKWCLSGECVPVGFPEAVDGG  
WSGWSAWSICSRSCGMGVQSAERQCTQPTPKYKGRYCVGERKRFRLCNLQACAPGRPSFR  
HVQCSHFDAMLYKQQLHTWVPVVDVNPCELHCRPANEYFAEKLDAVVDGTPCYQVRAS  
RDLCLNGICKNVGCDFEIDSGAMEDRCGVCHGNGSTCHTVSGTFEEAEGLYVDVGLIPA  
GAREIRIQEVAEAAFLALRSEDPEKYFLNGWTIQWNGDYQVAGTTFTYARRGNWENLT  
SPGPTKEPVWIQLLFQESNPGVHYEYTIHREAGGHDEVPPPVFSWHYGPWKCTVTTCGRG  
VQRQNVYCLERQAGPVDEEHCDPLGRPDDQQRKCEQPCPARWWAGEWQLCSSSCGPGGL  
SRRVLCIRSVGLDEQSALEPPACEHLPRPPTETPCNRHVPCPATWAVGNWSQCSVTCGE  
GTQRRNVLCNTDGTGVCDEAQQPASEVTCSLPLCRWPLGTGPEGSGSGSSHELFEAD  
FIPHLAPRSPASSPKPGTMGNAIEEEAPELDLPGPVFVDDFYDYNFINFHEDLSYGP  
SEEPDLDLAGTGDRTPPHSHPAAPSTGSPVPATEPPAAKEEGLGPWSPSPWPSQAGRS  
PPPPSEQTPGNPLINFLPEEDTPIGAPDLGLPSLSWPRVSTDGLQTPATPESQNDFPVGK  
DSQSQPLPPWRDRTNEVFKDDEEPKGRGAPHLPPRPSSTLPPLSPVGSTHSSPSPDVAEL  
WTGGTVAWEPALEGGLGPVDSLEWPTVGVASLLPPIIAPLPEMKVRDSSLEPGTSPFPTP  
GPGSWDLQTVAVWGTFLLPTTLTGLGHMPEPALNPGKGPESLSPEVPLSSRLLSTPAWD  
SPANSHRPETQPLAPSLAEAGPPADPLVVRNAGWQAGNWSECSTTCGLGAVWRPVRCS  
GRDEDCAPAGRPQAPARRCHLRPCATWHSNWSKCSRSCGGGSSVRDVQCVDTDRDLRPLRP  
FHCQPGPAKPPAHRPCGAQPCLSWYTSSWRECSEACGGGEQQRLVTCPEPGLCEEALRPN  
TTRPCNTHPCTQWVVGPGQCSGCGGVQRRLVKCVNTQTGLPEEDSDQCGHEAWPES  
RPCGTEDCEPVEPPRCERDRLSFGFCETLRLLGRCQLPTIRTQCCRSCSPPSHGAPSRGH

QRRARR

>sp|P17735|ATTY\_HUMAN Tyrosine aminotransferase OS=Homo sapiens GN=TAT PE=1 SV=1

MDPYMIQMSSKGNLPSILDVHVNVGGRSSVPGMKGRKARWSVRPSDMAKKTNPPIRAIV  
DNMKVKPNPNKTMISLSIGDPTVFGNLPDPEVTQAMKDALDSGKYNGYAPSIGFLSSRE  
EIASYYHCPEAPLEAKDVILTSGCSQAIDLCLAVLANPGQNILVPRPGFSLYKTLAESMG  
IEVKLYNLLPEKSWEIDLKQLEYLIDEKTAACLIVNNPSNPCGSVFSKRHLQKILAVAAARQ  
CVPILADEIYGDMVFSCKYEPLATLSTDVPILSCGGLAKRWLVPGWRLGWILIHDRRDI  
FGNEIRDGLVKLSQRILGPCTIVQGALKSILCRTPGEFYHNTLSFLKSNADLCYGALAAI  
PGLRPVRPSGAMVLMVGIEMEHFPEFENDVEFTERLVAEQSVHCLPATCFEYPNFIIRVVI  
TVPEVMMLEACSRIQEFCEQHYHCAEGSQEECDK

>sp|Q9UBB4|ATX10\_HUMAN Ataxin-10 OS=Homo sapiens GN=ATXN10 PE=1 SV=1

MAAPRPPPARLSGVMVPAPIQDLEALRALTALFKEQRNRETAPRTIFQRVLDILKKSSHA  
VELACRDPSQVENLASSLQLITECFRCLRNACIECSVNQNSIRNLDITIGVAVDLILLFRE  
LRVEQESLLTAFRCGLQFLGNIASRNEDSQSIVVWHAFPELFLSCLNHPDKKIVAYSSMI  
LFTSLNHERMKEEENLNIAIDVIDAYQKHPESEWPFLIITDLFLKSPELVQAMFPKLNN  
QERVTLDDLMIAKITSDEPLTKDDIPVFLRHAELIASTFVDQCKTVLKLASEEPPDDEEA  
LATIRLLDVLCEMTVNTTELLGYLVFPGLLERVIDLLRVIHVAGKETTNIFSNCGCVRAE  
GDISNVANGFKSHLIRLIGNLCYKNKDNQDKVNELDGIPLILDNCNISDSNPFLTQWVIY  
AIRNLTEDNSQNQDLIAKMEEQGLADASLLKKVGFVEVEKKGEKLIKSTRDTPKP

>sp|Q99700|ATX2\_HUMAN Ataxin-2 OS=Homo sapiens GN=ATXN2 PE=1 SV=2

MRSAAAAPRSPAVATESRRFAAARWPGWRSRQRPARRSGRGGGAAPGPYPSAAPPPPGP  
GPPPSRQSSPPSASDCFGSNGNGGGAFRPGSRRLGLGGPPRPVVLPLASPGAPPAA  
PTRASPLGARASPPRSGVSLARPAPGCRPACPEVYGPLTMSLKPQQQQQQQQQQQQQQQ  
QQQQQQQQPPPAANVRKPGGSGLLASPAAPSPSSSSVSSSSATAPSSVVAATSGGGRP  
GLGRGRNSNKGLPQSTISFDGIYANMRMVHILTSVVGSKCEVQVKNGGIYEGVFKTYSPK  
CDLVLDAAHEKSTESSSGPKREEIMESILFKCSDFVVVQFKDMDSSYAKRDAFTDSAISA  
KVNGEHKEKDLEPWDAGELTANEELEALENDVSNGWDPNDMFRYNEENYGVVSTYDSSL  
SYTVPLERDNSEEFKREARANQLAEIESSAQYKARVALENDRESEEEKYTAVQRNSSE  
REGHSINTRENKYIPPGQRNREVISWGSQRQNSPRMGQPGSGSMPSRSTSHTSDFNPNSG  
SDQRVVNGGVPWPSPCSPSSRPPSRYSQSGPNSLPPRAATPTRPPSRPPSRPSRPPSHPS  
AHGSPAPVSTMPKMSSEGPPRMSPKAQRHPRNHRVSAGRGSISSGLEFVSHNPPSEAAT  
PPVARTSPSGGTWSSVSGVPRLSPKTHRPSRQNSIGNTPSGPVLASPAQAGIIPTEAV  
AMPIPAASPTPASPNRAVTPSSEAKDSRLQDQRQNSPAGNKENIKPNETSPSFSKAEN  
KGISPVVSEHRKQIDDLKKFKNDFRLQPSSTSESMDQLLNKNREGEKSRDLIKDKIEPSA  
KDSFIENSSSNTSGSSKPNPSISPSILSNTEHKGPEVTSQGVQTSSPACKQEKDDKE  
EKKDAAEQVRKSTLNPNAKEFNPRSFSQPKPSTTPTSPRPQAQPSPMVGHQQPTPVYTQ  
PVCFAPNMMPVPVSPGVQPLYPIPMTPMPVNQAKTYRAVPNMPQQRQDQHHQSAMMHPA  
SAAGPPIAATPPAYSTQYVAYSQPFNPQLVQHVPYHYSQHPHYVSPVIQGNARMMAPP  
THAQPLVSSSATQYGAHEQTHAMYACPKLPYNKETSPSFYFAISTGSLAQYAHNPATL  
HPHTPHQPASATPTGQQSQHGGSHAPSPVQHHQHQAALHLASPQQQSAIYHAGLAP  
TPPSMTPASNTQSPQNSFPAAQQTFTIHPSHVQPAYTNPPHMAHVPQAHVQSGMVPSPH  
TAHAPMMLMTTQPPGGPQAALASALQPIPVSTTAHFPMTHPSVQAHHQQQL

>sp|Q58HT5|AWAT1\_HUMAN Acyl-CoA wax alcohol acyltransferase 1 OS=Homo sapiens GN=AWAT1  
PE=1 SV=1

MAHSKQPSHFQSLMLLQWPLSYLAIFWILQPLFVYLLFTSLWPLPVLYFAWLFLDWKTPE  
RGGRRSAWVRNWCWVTHIRDYFPITILKTKDLSPEHNYLMGVHPHGLLTFGAFCNFCTEA  
TGFSKTFPGITPHLATLSWFFKIPFVREYLMAGVCSVSQPAINYLLSHGTGNLVGIVVG  
GVGEALQSVPNNTTLLQKRKGVRTALQHGAHLVPTFTFGETEVYDQVLFHKDSRMKYF  
QSCFRRIFGFYCCVFYQQSFCQGSTGLLPYSRPIVTVVGEPLPLPQIEKPSQEMVDKYHA  
LYMDALHKLFDQHKTHYGCSETQKLFFL

>sp|Q3ZCQ2|AX2R\_HUMAN Annexin-2 receptor OS=Homo sapiens GN=ANXA2R PE=1 SV=2

MEQHFLGCVKRAWDSAEVAPEPQPPPIVSSDRGPWPLPLYVLGEYSLDSCDLGLLSSP  
CWRLPGVYWQNGLSPGVQSTLEPSTAKPTEFSWPGTQKQEQAPVEEVGQAEEDRLRLQQ  
LPWSSPLHPWDRQQDTEVCDSGCLLERRHPPALQPWRHLPGFSDCLEWILRVGFAAFSVL  
WACCSRICGAKQP

>sp|A6NMY6|AXA2L\_HUMAN Putative annexin A2-like protein OS=Homo sapiens GN=ANXA2P2 PE=5  
SV=2

MSTVHEILCKLSLEGDHSTPPSAYGSVKAYTNFDAERDALNIETAIKTKGVDEVTIVNIV  
TNRDNAQRQDIVFSYQRRTKKELASALKSALSGHLETVILGLLKTPAQYDASELKASMKG  
LGTDEDSLIEIICSRTNQELQEIINRVYKEMYKTDLEKDIISDTSGDFRKLMMVALAKGRRA  
EDGSVIDYELIDQADQLYDAGVKRKGTDVPKWISIMTERSVPHLQKVFDYKSYSPYDM  
LESIRKEVKGDLNLAFLNLVQRIQNKPLYFADQLYDSMKGKGTDRKVLIRIMVSRSEVDM  
LKIRSEFKRKYGKSLYYYIQDQTKGDYQKALLYLCGGDD

>sp|Q5VT79|AXA81\_HUMAN Annexin A8-like protein 1 OS=Homo sapiens GN=ANXA8L1 PE=2 SV=2

MAWWKAWIEQEGVTVKSSSHFNPDPAETLYKAMKGIGTNEQAIIDVLTKRSNTQRQQIA  
KSFKAQFGKDLTETLKSELGKFERLIVALMYPPYRYEAKELHDAMKGLGTKEGVIIIEIL  
ASRTKNQLREIMKAYEEDYGSSLEEDIQADTSGYLERILVCLLQGSRDDVSSFVDPALAL  
QDAQDLYAAGEKIRGTDEMKFITILCTRSATHLLRVFEEYEKIANKSIEDSIKSETHGSL  
EEAMLTVVKCTQNLHSYFAERLYAMKGAGTRDGTILRNIVSRSEIDLNLKCHFKKMYG  
KTLSSMIMEDTSGDYKNALLSLVSDP

>sp|Q5T1B0|AXDN1\_HUMAN Axonemal dynein light chain domain-containing protein 1 OS=Homo  
sapiens GN=AXDND1 PE=2 SV=1

MSLPKTPSTPLNSTSTSESKKLVSAKEGTRGLPELKEKKNMVDKSLPTSLQNEFIP  
KEVLLSLTYAANAGPCPENLLPPKKIKTPKGTLPRLVDHVWHHPVRRNKFYKYLIDHPVSL  
TGAGRDISFLYDVTYAKGQTREKAVCPPHLARSLQSHDGVIVPHKPKTLTDTLIPEEFHI  
VSSTGVSGLECYDDKYTTLLTDSENRLLLFPSMKPNKRVEVAQLNDVMDTLERAGVENQ  
EYTGPTKMHKLLHILKKEQTIYNMIFHELIRQVSVDCADRCELLSKVRERYVQMLDQIAR  
QMIDFYKDLVTQRVMDQRILEELYNFKHVEELTRELCLVRAHDVKLTKETEKAKHDLAQ  
ALLNAEKNKIVEEYHDLYTLQRERMENDMKKLVAERDIWSSATYELALKVIERNRILA  
RRLYLNEKGWNKYTKHFIIILLSNKDTEDLALLQKLTQKWRNLVNKLKQEQVEQMEESTSET  
LKIVKDGLIKWQEFFNEKDILSPNKGNI FNSVLLDFKQWQKILNEKKEEFTGDVLLSKYD  
TLKIIKHLQENWADIGLGIFNRHKSLEGEMPSEYQYMEEI IKNIQKLYKEYEIRINGDNG  
YSKILPSLISSLD FCSFKLENLEFPDTPLEEWQEIDEKINEMKSHLDILLNLTGIVPQHI  
DVDSVSVLQAYIFNMIQQWLLKIGNEINNGNIELQHMDLHISMIQWMVNLLILMIPNF  
TDQDCLLKLEESA EKHDIGVARLELDAIELTRKLYQYSSYLSSCKGMVTAMALSKSTN  
SHKNATEDLYEVDKLKKECYEWINTCCLLSNIKGRKITLLTYEEIERLLEEEAVKEFIE  
PEIDESFKEDDEESKEDRKLEENKERAEEQPSTSTEKEKLI RFIGEDENVHSKPLFETD  
VLSSWRESAKQGTLAQKYLEAMAVIEHMQEKLLEVENRARQAEKFE DAYEKLHHTLIKN

KDLEELVMTSRKESKEEKENQDEREVKEEEEQEEEEVRS AENSSKSPKKGH

>sp|O14977|AZIN1\_HUMAN Antizyme inhibitor 1 OS=Homo sapiens GN=AZIN1 PE=1 SV=2

MKGFI DDANYSVGLLDEGTNLGNVIDNYVYEHTLTGKNAFFVVDLGKIVKKHSQWQNVVA  
QIKPFYTVKNSAPAVLEILAALGTGFACSSKNEMALVQELGVPPENIIYISPCQKVSQI  
KYAAKVGVNILTCDNEIELKKIARNHPNAKVLLHIATEDNIGGEEGNMKFGTTLKNCRHL  
LECAKELDVQIIGVKFHVSSACKESQVYVHALSDARCVFDMAGEIGFTMNMLDIGGGFTG  
TEFQLEEVNHVISPLLDIYFPEGSGVKIISEPGSYVSSAFTLAVNIIAKKVVENDKFPS  
GVEKTGSDEPAFMYMNDGVYGSFASKLSEDLNTIPEVHKYKEDPLFTSSLWGPSCDE  
LDQIVESCLLPENLVGDWLI FDNMGADSFHEPSAFNDFQRPAIYYMMSFS DWYEMQDAGI  
TSDSMMKNFFVPSCIQLSQEDSFSAEA

>sp|Q9P287|BCCIP\_HUMAN BRCA2 and CDKN1A-interacting protein OS=Homo sapiens GN=BCCIP PE=1 SV=1

MASRSKRRAVESGVPQPPDPVQRDEEEKEVENEDDDSDKEKDEEDEVIDEENVIE  
FEAYSLSDNDYDG IKKLLQQLFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSEDSNDDMD  
EDEVFGFISLLNLTERKGTQCVEQIQELVLRFCENCKESMVEQLDKFLNDTTKPVGLLL  
SERFINVPPQIALPMYQQLQKELAGAHRTNKPCKCYFYLLISKTFVEAGKNNSKKKPSN  
KKKAALMFANAEEFFYEKAILKFNYSVQEESDTCLGGKWSFDDVPMTPLR TVMLIPGDK  
MNEIMDKLKEYLSV

>sp|POC6P0|BCL8\_HUMAN Putative protein BCL8 OS=Homo sapiens GN=NBEAP1 PE=5 SV=1

MSCCLSSRVHITRPVLEQFLSFAKYLDGLSHGVPLLKQLCDHILFINPAIWIHTPAKVQL  
SLYTYLSAEFIGTATIYTTICRIGTVIKDNAHLKILLGY

>sp|Q8NDZ0|BEND2\_HUMAN BEN domain-containing protein 2 OS=Homo sapiens GN=BEND2 PE=2 SV=2

MSERTQE QDFVII TVDDSDNDNDCSIEMVEVSETADNSTNDIADDSTYVTADNPTDDTAT  
QPNFPGGNDGHRPLQMSYSGSVTQAGVQWHDHSSLQPQPLGLKQFFHLSLPSSWDDRR  
TPPCPVAHGDQIVSQINHPVHLRRYSYNSEEVDFPKRGRFYTPEVQSSISPPAERQETHA  
WASPAVTSLESAACHELQEADLSYPRIVSSSSSLQYVAQGSFPCFGMPWNFISGG  
AESTNAVISFANATTAVPMAVLSRRESSLANNPGVVNYSALPENENVGPGRALSSFCFHP  
NLEMPERPANSSKNSTETANYPTLMGNYNGQNTASLSVFIPPYFAEKIILTEMPGTTETN  
VENNSQTVYYPALSGNTSAPYPASSYLPITSNFESGPQMSYGTMSYSTEMKNNCDQDDAS  
ASACLTPDFALLPLNILVKVDNTENSVNTMNRSTLLDSDSGQDSSSSSVCIPP KYGYLG  
DPKRNVRVLKIHLLAVQNMAKPKQAACYLVRI LFSKEILISSVDIHLKDSQSLDPNKMA  
ALREYLATTFPTCDLHEHGKDWQDCISGINSMIYCLCSEGKSTPKTVRKNNKRTNRVASA  
SADRNDQGRDGGEGCSWMFQPMNNSKMREKRNLPNSNAIPEGMREPSTDNPEEPGEAW  
SYFGRPWNRNRMPCSVLTLAKTKSCASLSARYLIQKLFTKDVLVQSNVYGNLKHGLCALD  
PNKISALREFLQENYPICDLSENGRDWKSCVTSINSGIRSLRHDVRRAEARSQSLPAVTP  
PELEQESKPGDPDATDPST

>sp|Q5T5X7|BEND3\_HUMAN BEN domain-containing protein 3 OS=Homo sapiens GN=BEND3 PE=1 SV=1

MNSTEFTEDVEEVLKSITVKVETEAEADAALDCSVNSRTSEKHSVDSVLTALQDSSKRKQL  
VSDGLLDSPGVKRRRLIPEALLAGMRNRENSSPCQNGEQAGRGRSLGNVWPGE EEP  
DATTPSYKKPLYGISHKIMEKKNPPSGDLLNVYELFEKANASNPSLSRLLNPEPQKRDCG  
STGAGTDNDPNIFYLIQKMFYMLNTLTSNMSQLHSKVDLLSLEVSRIKKQVSPTMVAKF  
QPPPEYQLTAAELKQIVDQSLSGGDLACRLLVQLFPELFDVDFSRGCSACGFAAKRKLE  
SLHLQLIRNYVEVYPSVKDTAVWQAECLPQLNDFSRFWAQREMEDSQPSGQVASFFEA  
EQVDPGHFLDNKDQEALSLDRSSTIASDHVVD TQDLTEFLDEASSPGEFAVFLHRLFP

ELFDHRKLGEQYSCYGDGGKQELDPQRLQIIRNYTEIYFPDMQEEEAWLQQCAQRINDEL  
EGLGLDAGSEGDPPRDDCYDSSSLPDDISVVKVEDSFEGERPGRSSKKIWLVPIDFDKLE  
IPQPDFEVPGADCLLSKEQLRSIYESSLSIGNFASRLLVHLPPELFTHEENLRKQYNCSGS  
LGKKQLDPSRIKLIIRHYVQLLYPRAKNDRVWTLFVVGKLDERCRRRDTEQRRSYQQQRKV  
HVPGPCECDLTSYAINPERFREEFEGPPLPPERSSKDFCKIPLDELVVPSPDFPVPSPYL  
LSDKEVREIVQQSLSVGNFAARLLVRLFPPELFTAENLRLQYNHSGACNKKQLDPTRLRLI  
RHYVEAVYPVEKMEEVWHYECIPSIDERCRRPNRKKCDILKAKKVEK

>sp|Q9NWD9|BEX4\_HUMAN Protein BEX4 OS=Homo sapiens GN=BEX4 PE=2 SV=1

MESKEELAANNLNGENAQQENEGGEQAPTQNEEESRHLGGGEGQKPGGNIRRGVRRLVP  
NFRWAIPNRHIEHNEARDDVERFVGQMMIEIKRKTREQQMRHYMRFQTPEPDNHYDFCLIP

>sp|Q13515|BFSP2\_HUMAN Phakinin OS=Homo sapiens GN=BFSP2 PE=1 SV=1

MSERRVVVDLPTSASSSMPLQRRRASFRGPRSSSSLESPPASRTNAMSGLVRA PGVYVGT  
APSGCIGGLGARVTRRALGISSVFLQGLRSSGLATVPAPGLERDHGAVEDLGGCLVEYMA  
KVHALEQVSQELETQLRMHLESKATRSGNWGALRASWASSCQQVGEAVLENARMLQTET  
IQAGADDFKERYENEQPFRAAEIEINSLYKVIDEANLTKMDLESQIESLKEELGSLSRN  
YEEDVKLLHKQLAGCELEQMDAPIGTGLDDILETIRIQWERDVEKNRVEAGALLQAKQQA  
EVAHMSQTQEEKLAAALRVELHNTSCQVQSLQAETESLRALKRGLENTLHDAKHWHDMEL  
QNLGAVVGRLEAELREIRAEAEQQQQAHLARKCQLQKDVASYHALLDREESG

>sp|C9JSJ3|BHMGI\_HUMAN Basic helix-loop-helix and HMG box domain-containing protein 1  
OS=Homo sapiens GN=BHMGI PE=3 SV=2

MFGSSRYLGSSEQPRANSLGPSRDLVLCSLVEGEDKVNPPSEPHGLRMEEKWLLKGKLRN  
QRNQNKLLSPNKKQRKNHTSKLQELALLPIALKTGTTKKLTKKEILVHVLQYIQYLQRNI  
DAAKALFKCHITTGEGGLAGLGQKPAWGPARRRRHSTPSSSPSSQKSCLOGACQKPRKKK  
LTQASESQTRTPKPRRSLALNKPEKLVAPSPDQKSGTGGTTTPPCPDSCGHPRPASS  
PPGDRKGGQSQLTLLDLAEDTIHCDISSWCQGSVQDDAPFPALLAQEDVARIHFLNKTQ  
PHPRQKLVFYDSSSEDVDKGSLDADPWLPAWTPENSPQGSPLFLGPPQIDVWSGTGHPSEI  
LGLSPSLFSSPGKLLPDEILEDMEYLTQAAFEEVCLDLESSPSAYTQEAPQEKDTASK  
APKDPPESHSLHRSSVSLDHCYLSLSGNSKAPSSSSSSSSSSSSSEDSDSEPLWKQREDM  
QANPVGTGSSSEDEEDTTWTPTRLASPLLAEEKKATKGQVARAPVKPKEKKKGPCPPQMK  
KKCVNGFIMFCRMNRKQYIRSCPGTASTAATKELAQLRVMTQQERRPYCTKARRFSRQH  
NRIVKQDGSSEAEADWETPKPFYQLLAEKALPLPPLHQ

>sp|P55061|BI1\_HUMAN Bax inhibitor 1 OS=Homo sapiens GN=TMIM6 PE=1 SV=2

MNIFDRKINFDA LLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHMVTHFIQAGLLS  
ALGSLILMIWLMATPHSHETEKKRLG LLAGFAFLTGVGLPALEFCIAVNPSILPTAFMG  
TAMIFTCTLSALYARRRSYFLGGILMSALSLLLLSSLGNVFFGSIWLFQANLYVGLVV  
MCGFVLFDTLIIIEKAEHGDQDIWHCIDLFLDFITVFRKLMMILAMNEKDKKKEKK

>sp|Q9UHR4|BI2L1\_HUMAN Brain-specific angiogenesis inhibitor 1-associated protein 2-like  
protein 1 OS=Homo sapiens GN=BAIAP2L1 PE=1 SV=2

MSRGPEEVNRLTESTYRNVMEQFNPLRLNLINLGKNYEKAVNAMILAGKAYYDGVAKIGE  
IATGSPVSTELGHVLIIEISSTHKKLNLSDLENFKKFHKEIIELEKKIELDVKYM NATLK  
RYQTEHKNKLESLEKSQAEKKIRRKSSQGSRNALKYEHKEIEYVETVTSRQSEIQKFIAD  
GCKEALLEEKRRFCFLVDKHCGFANHIHYHLQSAELLNSKLPRWQETCVDAIKVPEKIM  
NMIEEIKTPASTPVSGTPQASPMIERSNVVRKDYDTLSKCSPKMPPAPSGRAYTSPLIDM  
FNNPATAAPNSQRVNNSTGTSEDPSLQRSVSVATGLNMMKKQKVKTIFPHTAGSNKTLLS

FAQGDVITLLIPEEKDGWLYGEHDVSKARGWFPSSYTKLLEENETEAVTVPTSPPTPVRS  
ISTVNLSENSSVIPPDDYLECLSMGAAADRRADSARTTSTFKAPASKPETAAPNDANGT  
AKPPFLSGENPFATVKLRPTVTNDRSAPIIR

>sp|Q96G01|BICD1\_HUMAN Protein bicaudal D homolog 1 OS=Homo sapiens GN=BICD1 PE=1 SV=3

MAAEEVLQTVDHYTEIERLTKELTETTHEKIQAAEYGLVVLEEKLTLLKQQYDELEAEYD  
SLKQELEQLKEAFGQSFSSIHKVAEDGETREETLLQESASKEAYYLGKILEMQNELKQSR  
AVVTNVQAENERLTAVVQDLKENNEMVELQRIRMKDEIREYKFEARLLQDYTELEENI  
TLQKLVLTKQNVVEYGLKHEIKRFEETVLLNSQLEDAIRLKEIAEHQLEEALETNKN  
EREQKNNLRKELSQYISLNDNHISISVDGLKFAEDGSEPNDDKMNGHIHGPLVKLNGDY  
RTPTLRKGESLNPVSDLFSELNISEIQKLKQQLMQVEREKAILLANLQESQTQLEHTKGA  
LTEQHERVHRLTEHVNAMRGLQSSKELKAELDGEKGRDSGEEAHDYEVDINGLEILECKY  
RVAVTEVIDLKAIEKALKEKYNKSVENYTDKAKYESKIQMYDEQVTSLEKTTKESGEKM  
AHMEKELQKMTSIANENHSTLNTAQDELVTFSSELAQLYHHVCLCNETPNRVMLDYRQ  
SRVTRSGSLKGPDDPRGLSPRLARRGVSSPVETRTSSEPVAKESTEASKEPSPTKTPTI  
SPVITAPPSSPVLDTSIRKEPMNIYNLNAIIRDQIKHLQKAVDRSLQSRQRAAARELA  
PMIDKDKEALMEEILKLKSLSTKREQIATLRAVLKANKQTAEVALANLKNKYENKAMV  
TETMTKLRLNELKALKEDAATFSSLRAMFATRCDEYVTQLDEMQRQLAAAEDEKKTLLTLL  
RMAIQKQLALTQRLEDLEFDHEQSRRSKGLGKSKIGSPKVSGEASVTVPIDTYLLHSQ  
GPQTPNIRVSSGTQRKRQFSPSLCDQSRPRTSGASYLQNLRLVPPDPTSTESFLLKGPPS  
MSEFIQGHRLSKEKRLTVAPPDCQQAASVPPQCSQLAGRQDCPTVSPDTALPEEQPHSS  
SQCAPLHCLSKPPHP

>sp|Q9UBW5|BIN2\_HUMAN Bridging integrator 2 OS=Homo sapiens GN=BIN2 PE=1 SV=3

MAEGKAGGAAGLFAKQVQKKFSRAQEKVLQKLKGAVETKDERFEQSASNFYQQQAEGHKL  
YKDLKNFLSAVKVMHESSKRVSETLQEIYSSEWDGHEELKAIVWNNDDLWEDYEELADQ  
AVRTMEIYVAQFSEIKERIAKRGRKLVYDYSARHHLEAVQNAKKKDEAKTAKAEFEFNKA  
QTVFEDLNQELLEELPILYNSRIGCYVTIFQNISNLRDVFYREMSKLNHNLVEVMSKLEK  
QHSNKVFVVKGLSSSSRRSLVISPPVRTATVSSPLTSPTSPSTLSLKSESESVSATEDLA  
PDAAQGEDNSEIKELLEEEIEKEGSEASSSEDEPLACNGPAQAQPSPTTERAKSQEE  
VLPSSTTPSPGGALSPSGQPSSSATEVVLRTRTASEGSEQPKKRASIQRTSAPPSRPPPP  
RATASPRPSSGNIPSSPTASGGGSPTSPRASLGTGTASPTSLEVSPNPEPPEKPVRTPE  
AKENENIHNQNPEELCTSPTLMTSQVASEPGEAKKMEDKEKDNKLISANSSEGQDQLQVS  
MVPENNNLTAPEPQEEVSTSENPL

>sp|Q156A1|ATX8\_HUMAN Ataxin-8 OS=Homo sapiens GN=ATXN8 PE=1 SV=1

MQQQ  
QQQQQQQQQQQQQQQQQQQQQQ

>sp|O14965|AURKA\_HUMAN Aurora kinase A OS=Homo sapiens GN=AURKA PE=1 SV=2

MDRSKENCISGPVKATAPVGGPKRVLVTQQFPCQNPLPVNSGQAQRVLCPSNSSQVRPLQ  
AQKLVSSHKPVQNKQKQLQATSVPHVSRPLNNTQKSKQPLPSAPENNPEELASKQKN  
EESKKRQWALEDFEIGRPLGKGKFGNVYLAREKQSKFILALKVLFKAQLEKAGVEHQLRR  
EVEIQSHLRHPNILRLYGYFHDATRVYLILEYAPLGTVYRELQKLSKFDEQRTATYITEL  
ANALSYCHSKRVIHRDIKPENLLGSAGELKIADFGWSVHAPSSRRTLCGTLDYLPPEM  
IEGRMHDEKVDLWSLGVLCYEFLVGKPPFEANTYQETYKRISRVEFTFPDFVTEGARDLI  
SRLLKHNPQRPMLEHVLPWITANSSKPSNQCQNKESASKQS

>sp|Q5TBC7|B2L15\_HUMAN Bcl-2-like protein 15 OS=Homo sapiens GN=BCL2L15 PE=1 SV=1

MKSSQTFEEQTECIVNTLLMDFLSPTLQVASRNLCCVDEVDSGEPCSFDAIIAGRLRML  
GDQFNGELEASAKNVIAETIKGQTGAILQDTVESLSKTWCAQDSSLAYERAFLAVSVKLL  
EYMAHIAPEVVGQVAIPMTGMINGNQAIREFIQGGGQWENLES

>sp|P59052|B3AS1\_HUMAN Putative uncharacterized protein B3GALT5-AS1 OS=Homo sapiens  
GN=B3GALT5-AS1 PE=5 SV=2

MRRLRHREVRGPVLGHTATGGPQNGTSGCTTAPQQRPPPGTQGMLEQYLNRRGGQKSHGLC  
WLLCFVSQGGNQDVISAELWCRIVHQAHWGCWQNSAVWGCERNEVLVSL LAVGQGLPSASG  
GRLPSLVHGSPHSDSQHPREVPLAL

>sp|Q96Q91|B3A4\_HUMAN Anion exchange protein 4 OS=Homo sapiens GN=SLC4A9 PE=2 SV=2

MEMKLPQGEGFEASSAPRNIPSGELDSNPDPGTGSPDGPSTESKELGVPKDPLLFIQL  
NELLGWPQALEWRETGSSASLLLDMGEMPSITLSTHLHRRWVLFEEKLEVAAGRWSAPH  
VPTLALPSLQKLRSLLAEGVLDDCPAQSLLELVEQVTRVESLSPELRGQLQALLLRPQ  
HYNQTTGTRPCWGSTHPRKASDNEEAPLREQCQNPLRQKLPPGAEAGTVLAGELGFLAQP  
LGAFVRLRNPVVLGSLTEVSLPSRFFCLLLGPCMLGKGYHEMGRAAAVLLSDPQFQWSVR  
RASNLHDLAALDAFL EEVTVLPGRWDPTARIPPPKCLPSQHKRLPSQQREIRGPAVPR  
L TSAEDRRHRGPHAHSPELQRTGRLFGGLIQDVRRKVPWYPSDFLDALHLQCFSAVLYIY  
LATVTNAITFGGLLDGATDGAQGVLESFLGTAVAGAAFC LMAGQPLTILSSTGPVLVFER  
LLFSFSRDYSLDYLPFRLWVGIIWATFCLVLVATEASVLVRYFTRFTEEGFCALISLIFI  
YDAVGKMLNLTHTYPIQKPGSSAYGCLCQYPGPGGNESQWIRTRPKDRDDIVSMDGLIN  
ASLLPPPECTRQGGHPRGPGCHTVPDIAFFSLLFLTSTFFAMALKCVKTSRFFPSVVRK  
GLSDFSSVLAILLGCGLDAFLGLATPKLMVPREFKPTLPGRGWLVPFGANPWWWVAAAA  
LPALLLSILIFMDQQITAVILNRMEYRLQKGAGFHLDFCVAVLMLLTSALGLPWYVSAT  
VISLAHMDSLRRESRACAPGERPNFLGIREQRLTGLVVFILT GASIFLAPVLKFI MPVL  
YGIFLYMGVAALSSIQFTNRVKLLLMPAKHQPDLLLLRHVPLTRVHLFTAIQLACLGLLW  
IIKSTPAAIIFPLMLGLVGVRKALERVFS PQELLWLDELMP EEEERSIPEKGLEPEHSFS  
GSDSESEL MYQPKAPEINISVN

>sp|P02730|B3AT\_HUMAN Band 3 anion transport protein OS=Homo sapiens GN=SLC4A1 PE=1 SV=3

MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDEATATDYHTTSHPGTHKVYVE  
LQELVMDEKNQELRWMEARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVL  
LDLQETSLAGVANQLDRFIFEDQIRPQDREELLRALLLKHS HAGELEALGGVKPAVLTR  
SGDPSQPLL PQHSSLETQLFCEQGDGGEHSPSGILEKIPPDSEATLVLVGRADFLEQP  
VLGFVRLQEAAELEAVELPVP IRFLFVLLGPEAPHIDYTQLGRAAATLMSERVFRIDAYM  
AQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQRELLRRRYQSSPAKPDSSFYK  
GLDLNGGPDDPLQQTGQLFGGLVRDIRRRYPYLS DITDAFSPQVLA AVIFIYFAALSPA  
ITFGGLLG EKTRNQMGVSELLISTAVQGILFALLGAQPLL VVGFSGPLLVFEEAFFSFCE  
TNGLEYIVGRVWIGFWLILLVVLVVAFEGSFLVRFISRYTQEIFSFLISLIFIYETFSKL  
IKIFQDHLPLQKTYNNVLMV PKPGQLPNTALLSLVLMAGTFFFAMMLRKFKNSSYFPGK  
LRRVIGDFGVPI SILIMVLVDFFIQD TYTQKLSVPDGFKVSNS SARGWVIHPLGLRSEFP  
IWM MFASALPALLVFI LIFLESQITTLIVSKPERKMKVKGSGFHLDLLLVGMGVAALFG  
MPWLSATTVRSVTHANAL TVMGKASTPGAAAQIQEVKEQRISGLLVAVLVGLSILMEPIL  
SRIPLAVLFGIFLYMGVTSLSGIQLFDRILLFKPKYHPDPYVKRVKTWRMHLFTGIQ  
IICLAVLWVVKSTPASLALPFVILITVPLRRVLLPLIFRNVELQCLDADDAKATFDEEEG  
RDEYDEVAMPV

>sp|Q6Y288|B3GLT\_HUMAN Beta-1,3-glucosyltransferase OS=Homo sapiens GN=B3GLCT PE=1 SV=2

MRPPACWLLAPPALLALLTCSLAFGLASEDTKKEVKQSQDLEKSGISRKNDIDLKGIVF  
VIQSQSNSFHAKRAEQLKKSILKQAADLTQELPSVLLHQLAKQEGAWTILPLLPHFSVT  
YSRNSSWIFFCEEETRIQIPKLETLRRYDPSKEWFLGKALHDEEATIIHHYAFSENPTV  
FKYPDFAAGWALSIPLVNKLTKRLKSESLKSDFTIDLKHEIALYIWDKGGGPPLTPVPEF  
CTNDVDFYCATTFSFLPLCRKPVKKKIDIFAVKTCCKFHGDRIPIVKQTWESQASLIEY  
YSDYTENSIPTVDLGIPNTDRGHCGKTFAILERFLNRSQDKTAWLVIVDDDTLISISRLQ  
HLLSCYDSGEPVFLGERYGYGLGTGGYSYITGGGGMVFSREAVRRLASKCRCYSNDAPD  
DMVLGMCFSGLGIPVTHSPLFHQARPVDYPKDYLSHQVPISFHKHWNIDPVKVYFTWLAP  
SDEDKARQETQKGFREEL

>sp|Q9NY97|B3GN2\_HUMAN N-acetylactosaminide beta-1,3-N-acetylglucosaminyltransferase 2  
OS=Homo sapiens GN=B3GNT2 PE=1 SV=2

MSVGRRRIKLLGILMMANVFIYFIMEVSKSSSQEKNKGGEVIIPKEKFWKISTPPEAYWN  
REQEKLNRQYNPILSMLTNQTGEAGRLSNISHLNYCEPDLRVTSVVTGFNNLPDRFKDFL  
LYLRCRNYSLIDQPDKCAKKPFLLLAIKSLTPHFARRQAIRESWGQESNAGNQTVVRFV  
LLGQTPPEDNHPDLSMDLKFESEKHQDILMWNYRDTFFNLSLKEVLFLRWVSTSCPDEF  
VFKGDDDFVFNTHHILNYLNSLSKTKAKDLFIGDVIHNAGPHRDKKLYYIPEVVYSGLY  
PPYAGGGGFLYSGHLALRLYHITDQVHLYPIDDVYTGMCQLKQLGLVPEKHKGFRFTDIEE  
KNKNNICSYVDLMLVHSRKPQEMIDIWSQLQSAHLKC

>sp|O96024|B3GT4\_HUMAN Beta-1,3-galactosyltransferase 4 OS=Homo sapiens GN=B3GALT4 PE=1  
SV=1

MLRLFRRLLLAALLLVIVWTLFGPSGLGEELLSLSLASLLPAPASPGPPLALPRLLIPN  
QEACSGPGAPPFLILVCTAPENLNQRNAIRASWGGLREARGLRVQTLFLLGEPNAQHPV  
WGSQSDLASESAAQGDILQAAFQDSYRNLTLKTL SGLNWAEEKHCPMARYVLKTDVVYV  
NVPELVSELVLRGGRWGQWERSTEPQREAEQEGGQVLHSEEVPLLYLGRVHWRVNPSTP  
GGRHRVSEEQWPHTWGPFPYASGTGYVLSASAVQLILKVASRAPLLPLEDFVGVVSARR  
GGLAPTQCVKLAGATHYPLDRCCYGKFLLTSHRLDPWKMQEAWKLVGSGDGERTAPFCSW  
FQGVLGILRCRAIAWLQS

>sp|Q86Y29|BAGE3\_HUMAN B melanoma antigen 3 OS=Homo sapiens GN=BAGE3 PE=2 SV=1

MAAGVVFALSAQLLQARLMKEESPVVSWRLEPEDGTALDVHFVSTLEPLSNAVKNVPR  
CIIILVLQEPTPFRISVTSSCFVQNTLTCLKDRRKMQTVQCATAQETS

>sp|Q9NY43|BARH2\_HUMAN BarH-like 2 homeobox protein OS=Homo sapiens GN=BARHL2 PE=1 SV=2

MTMEGASGSSFGIDTILSSASSGSPGMMNGDFRPLGEARTADFRSQATPSPCSEIDTVGT  
APSSPISVTMEPPEPHLVADATQHHLHLSHQQPPPPAAAPTQSLQPLPQQQQPLPPQP  
PPPPQQLGSAASAPRTSTSSFLIKDILGDSKPLAACAPYSTSVSSPHHTPKQESNAVHE  
SFRPKLEQEDSKTKLDKREDSQSDIKCHGTKEEGDREITSSRESPPVRAKKPRKARTAFS  
DHQLNQLERSFERQKYL SVQDRMDLAAALNLTDQVKTWYQNRRTKWKRTAVGLELLAE  
AGNYSALQRMFSPSYFYHPSLLGSMDSTAAAAAAAMYSSMYRTPPAPHPQLQRPLVPRV  
LIHGLGPGGPALNPLSSPIPGTPHPR

>sp|Q9HBU1|BARX1\_HUMAN Homeobox protein BarH-like 1 OS=Homo sapiens GN=BARX1 PE=1 SV=2

MQRPGEPGAARFGPPEGCADHRPHRYRSFMIEEILTEPPGPKGAAPAAAAAAGELLKFG  
VQALLAARPFHSHLAVLKAEQAAVFKFPLAPLGCSGLSSALLAAGPGLPGAAGAPHLPLE  
LQLRGKLEAAGPGEPGTAKKGRRSRTVFTQLMGLKRFKQKYLSTPDRIDLAESLG  
LSQLQVKTWYQNRMKWKKIVLQGGGLESPKPKGRPKKNSIPTSEQLTEQERAKDAEKP  
AEVPGEPSDRSRED



>sp|Q8WY36|BBX\_HUMAN HMG box transcription factor BBX OS=Homo sapiens GN=BBX PE=1 SV=1  
MKGSNRNKDHS AEGEGVGKRPKRKCLQWHPLLAKKLDFSEEEEEEEEEEDIDKVQLLGA  
DGLEQDVGETEDDESPEQRARRPMNAFLLFCKRHRS LVRQEHPRLDNRGATKILADWWAV  
LDPKEKQKYTDMAKEYKDAFMKANPGYKWCPTTNKPVKSPTPTVNPRKKLWAFPSDSSRD  
LPSPKKA KTEEMPQLNFGMADPTQMGGLSMLLLAGEHALGTPEVSSGTCRPDVSESPELR  
QKSPLFQFAEISSSTSHSDASTKQCQTSALFQFAEISSNTSQLGGAEPVKRCGKSALFQL  
AEMCLASEGMKMEESKLKAKESDGGRIKELEKGKEEKEIKMEKTDETRLQKEAEFEKSA  
KENLRDSKELRNFEALQIDDIMAIKMEDPKEIRKEELEEDHKCSHFPDFSYSASSKIIIS  
DVPSRKDHMCHPHGIMI IEDPAALNKPELKKKKKKSKMDRHGNDKSTPKKTCKKRQSSE  
SDIESVIYTI EAVAKGDWIEKLGDTPRKKVRTSSSGKSILDAKPPKKVKSREKKMSK  
EKSSDTTKESRPDFISISASKNISGETPEGIKA EPLTPMEDALPPSLSGQAKPEDSDCH  
RKIETCGSRK SERSCKGALYKTLVSEGMTSLRANVDRGKRSSGKGNSDHEGCWNEESW  
TFSQSGTSGSKKFKKTKPKEDCLLGS AKLDEEFKKFNSLPQYSPVTFDRKCVVPRKKK  
KTGNVSSEPTKTSKGPFQSQKKNLFHKIVSKYKHKKEKPNVPEKSGDKWSNKQLFLDAI  
HPTEAIFSED RNTMEPVHKVNIPSI FNTPEPTTTQEPLVGSQKRKARKTKITHLVRTAD  
GRVSPAGGTLD DPKPEQLQRS LPKATETDCNDKCSHNT EVGETRSSTPEMPAVSAFFSLA  
ALAEVAAMENVHRGQRSTPLTHDGQPKEMPQAPVLISCADQ

>sp|095999|BCL10\_HUMAN B-cell lymphoma/leukemia 10 OS=Homo sapiens GN=BCL10 PE=1 SV=1  
MEPTAPSLTEEDL TEVKKDALENLRVYLCEKIIAERHFDHLRAKKILSREDTEEISCRTS  
SRKRAGKLLDYLQENPKGLDTLVESIRREKTQNFLIQKITDEV LKLRNIKLEHLKGLKCS  
SCEPFPDGATNNLSRSNSDES NFSEKLRASTVMYHPEGESSTTPFFSTNSSLNLPVLEVG  
RTENTIFSSTTLPRPGDPGAPPLPDLQLEEEGT CANSEMFLPLRSRTVSRQ

>sp|P10415|BCL2\_HUMAN Apoptosis regulator Bcl-2 OS=Homo sapiens GN=BCL2 PE=1 SV=2  
MAHAGRTGYDNREIVMKYIHYKLSQRGYEWDAGDVGAAPPGAAPAGIFSSQPGHTHPA  
ASRDVPARTSPLQTPAAPGAAAGPALSPVPPVVHLTLRQAGDDFSRRYRRDFAEMSSQLH  
LTPFTARGRFATVVEELFRDGVNWGRIVAFEFEGGVMCVESVNREMSPLVDNIALWMTEY  
LNRHLHTWIQDNGGWD AFVELYGPSMRPLDFSWLSLKTLLSLALVGACITLGAYLGHK

>sp|Q9BUT1|BDH2\_HUMAN 3-hydroxybutyrate dehydrogenase type 2 OS=Homo sapiens GN=BDH2 PE=1  
SV=2  
MGRLDGKVIILTAA AQIGQAAALAFAREGAKVIATDINESKLQELEKYPGIQTRVLDVT  
KKKQIDQFANEVERLDVLFNVAGFVHHGTVLDCEEKDWDFSMNLNVRSMYLMIKAF LPKM  
LAQKSGNIINMSSVASSVKGVNRCVYSTTKAAVIGLTKSVAADFIQQGIRCNCVCPGTV  
DTPSLQERI QARGNP EEARNDFLKRQKTGRFATAEEIAMLCVYLASDESAYVTGNPVIID  
GGWSL

>sp|A6H8Y1|BDP1\_HUMAN Transcription factor TFIIIB component B' ' homolog OS=Homo sapiens  
GN=BDP1 PE=1 SV=3  
MFRRARLSVKPNVRPGVGARGSTASNPQRGRESRPPDPATDSASKPAEPTDVPTVDFGG  
AEPQEKAPRSSTEK TGGDNDVEESSRSSSTVSQRRKRISSTSSLVKSSVSPSESHPLST  
INQEAPQPTATSTKEKQPCSDRYRYKAQKLREMLKEELRKEKKQWK NKYAINESQRPPD  
RSKMTMRDFIYYLPDNNPMTSSLEQEKKTEKSTPVQTREQEKGSTPNAEDNEMEEETDD  
GPLLVPRVKVAEDGSIILDEESLTVEVLRTKGPCVVEENDPIFERGSTT TYSSFRKNYYS  
KPWSNKETDMFFLAISMVGTDFSMIGQLFPHRARIEIKNFKKREKTNGWRIDKAFQEKR  
PFDFDFFAHLLQKVLAE EKKRKQKSVKNHSLKEKKSTKPRKNVKVKKVACEGVNNDPDES  
MSSRISDTERSQKDAQTVEEESLTL SREDAEQVALEVDLNQKKRRRKKQDGANELGVNNL

LENATVQAGPSKGEKHKNKCQAIPELKEGECSEQMLSCTQNIDGIVGFASTKVEKRT  
DPILSLSNQQDATSVATESSESSTSDLPSEVVGIRALCEVNNAEGSCIEERNVDLKNNSL  
EIDQTENVKPMRLGRFRQRPKNLSRAGKKSVLSSQKTESESKNSHSHKTSVEKNHVEKDKM  
NTLDILRMETTERENPEAETSVLGEKNCLQEGSQLKALRPVQVRGRLQKPKPNAGKAAE  
RKEILISQEEIGANVEKNENESCADRDTQHMEDQSRKDFEEDVILQPEKNDSFQNVQP  
DEPKVLNECLSVQENNKANKLNQVPILRTRFQKPKPNIGRGTGRREISSKEEVLEKILVS  
GEMAAALRETVRLDTSPKEMVPAEINTKEMQSDLKETGRRRAISPREKILDVIDDTIEMET  
GLKAMGREICLREKTPEVIDATEEIDKDLEEAGREISPKNGPEEVKPLGEVETDLKAT  
GNESPPEKTPEVTDATTEEIDKNLEETGRRKISPRENGPEEVKPVDEMETDLNATGRESS  
PREKTPEVIDATEEIDLEETEREVSPQENGLEEVKPLGEMETDLKATGRDSFPRGKTPEV  
IDAIEEIEIDLEETEREISPKENGLEEVKPLGEMQTDLKATGREISPREKTPEVIDATEE  
IDKDLEETGRREISPEENGPEEVKPVDEMETDLKTTGREGSSREKTREVIDAAEVIEDL  
EETEREISPKENGPEEVKPVGKMETDLKEIREEISQREKVLAEFSAIREKEIDLKETGKR  
DIPIMEKVSQKMAVVEEMADLKETGKENFRERGSEEICVTEEKVAELKQTGKTDISPRE  
NELEETTSRQTDTHLMQSGSNDFAVPSLDIQNISSEVLMMHTPVEEKRSEKEVSSH  
FSHFKISSQTHESDKTEVQGIQSPDVPEQFSDINLSKSLPQEQKPLEIKPAPFVRSRFRK  
PKPNLARAALKRETTESEKYIYEKKSETKKMETIVMQENNEQTDTLPSQHDEASLMISRE  
KDTLGHNEEAVILPCTQTERNLSPSNSCEPKESQSAPVQKNSVSVGTNNVNTFQQE  
MKESVIQTARQVRGRLQRPRPNIRKTGQRQIVDKGEAKGIIKEGRTILPKDETEKKVLT  
SNSQIETIEIEVPSSAVPEHRMYENQSQVVLVENLHVNKNETIRHENKPYVPSSAQMTTR  
KFQKAKPNLGRAHSHKKEEVPLEKVTTDQSKGKPEDHLLQKGASNTQLLLKEKAELLTSL  
EVSARKDCVSGSKESALAKIDAELEEVGPSRRVGEETVGDNSPSSVVEEQYLNKLTSCPQP  
LNETSYSKIALDGKTTISSTSEYERNRGERRSHKKFKPNVTRGRGSKRVRGKTSKKEPRA  
SKAMLVTLRASQEEDDADDDESUYEESYHLAPEEVNKAPVFPVGLRSPEPVSAQIEE  
TMEELEITVNVDPVGCIAVVEHELNTDVTTEEMKQENLSVPFEMTTSEHIQDEPGTND  
GSTAAITLLTMGDLVLQSEISSEQGDVGVCIIIPHVHSDKSHIPSSLDNVNHHKIVHECQ  
ELSSPVITTSPASFEENKIVLEEQSSREEISLMEKVKENATPTRNTISKVTSNLRIRSRL  
AKPKPNLEKTLGTNRLLDDYQEVSSLCVTGAEMETQRETEKNASKATELENKLGPVTTA  
ENKDQSKLACVHGIGKTSISSEVNLTERNENQEESQEVHMLSVAPVASSETGPCTGLD  
RGLGENSVVEEPQIKDSKGSVLTLVPPEYTPTSIPEVQQENIINPQDLTVNLVANVPQDG  
EDEQAFILTLVEIPANAVEEFTDATAQFMPNPLLPAPILVKSVENTEERGDMISICLPATSV  
GQDAMGLSISGRDNSKKPPDNLDLVSRRKQCRDKNDHIPPAAKRSLLTRDDCQEYTT  
VHSKELTNVFEETGESHKGDIFLTSGSTLTTPPEQRQQVEAAFQSRGSRSPDACMDKNV  
PQLPQDEMIVSDKEERTDAAPKSQQMDSRTSSSKASLSRPGRRPLGFLSLICKNSLES  
EPMQVHSHKRLKPLIPGLRKKLKRSNPFNSESQEKNNRESSDLLPSPSVITTTQSENISSAT  
QVSCDQPLLKEGYKSAQKRAPQGEATTVSEYFFNDIFIEVDETE

>sp|Q7L4P6|BEND5\_HUMAN BEN domain-containing protein 5 OS=Homo sapiens GN=BEND5 PE=1 SV=1  
MYAFVRFLEDNVCYALPVSCVRDFSPRSRLDFDNQKVYAVYRGPEELGAGPESPPRAPRD  
WGALLLHKAQILALAEDKSDLENSVMQKKIKIPKLSLNHVEEDGEVKDYGEEDLQLRHIK  
RPEGRKPSEVAHKSIEAVVARLEKQNGLSLGHSTCPEEVFVEASPGTEDMDSLEDAVVR  
ALYEELLRNYQQQQEEMRHLQQELERTRRQLVQQAKKLKEYGALVSEMKELRDLNRRLQD  
VLLLRLGSGPAIDLEKVKSECLEPEPELRSTFSEEANTSSYPAPAPVMDKYILDNGKVH  
LGSGIWWDEEKWHQLQVTQGDSTYTKNLAVMIWGTDLVKNRSVTGVATKKKKDAVPKPPL  
SPHKLSIVRECLYDRIAQETVDETEIAQRLSKVNKYICEKIMDINKSCKNEERREAKYNL

Q

>sp|Q9BXY8|BEX2\_HUMAN Protein BEX2 OS=Homo sapiens GN=BEX2 PE=1 SV=1  
MESKEERALNNLIVENVNQENDEKDEKEQVANKGEPLALPLNVSEYCVPRGNRRRFRVRQ  
PILQYRWDIMHRLGEPQARMREENMERIGEEVRQLMEKLEKQLSHSLRAVSTDPPHHDH  
HDEFCLMP

>sp|P08236|BGLR\_HUMAN Beta-glucuronidase OS=Homo sapiens GN=GUSB PE=1 SV=2  
MARGSAVAWAALGPLLWGCALGLQGMLYPQESPSRECKELDGLWSFRADFSDNRRRGFE  
EQWYRRPLWESGPTVDMVPVSSFNDISQDWRLRHFGVWVYEREVILPERWTQDLRTRVV  
LRIGSAHSYAIVWVNGVDLTLEHGGYLPFEADISNLVQVGPLPSRLRITIAINNTLTPTT  
LPPGTIQYLTDTSKYPKGYFVQNTYFDFNYAGLQRSVLLYTPTTYIDDTVTTSVEQD  
SGLVNYQISVKGSNLFKLEVRLLDAENKVVANGTGTQGQLKVPVSLWWPYLMHERPAYL  
YSLEVQLTAQTSGLPVSDFYTLPGVIRTAVATKSQFLINGKPFYFHGVNKHEDADIRGKG  
FDWPLLVKDFNLLRWLGANAFRTSHYPYAEVMMQCDRYGIVVIDECPGVGLALPQFFNN  
VSLHHHMQVMEEVRRDKNHPAVVMWSVANEPASHLESAGYYLKMVIAHTKSLDPSRPVT  
FVSNSNYAADKGAPYVDVICLSNYSYWHYDYGHELELIQLLATQFENWYKKYQKPIIQSE  
YGAETIAGFHQDPPLMFTEEYQKSLLQYHLGLDQKRRKYVVGELIWNFADFMTESPTR  
VLGNKKGIFTRQRQPKSAFLLRERYWKIANETRYPHSVAKSQCLNSLFT

>sp|Q8NDY6|BHE23\_HUMAN Class E basic helix-loop-helix protein 23 OS=Homo sapiens  
GN=BHLHE23 PE=2 SV=1  
MAELKSLSGDAYLALSHGYAAAAAGLAYGAAREPEAARGYGTPGGDLPAAPAPRAPAQ  
AAESSGEQSGDEDDAFEQRRRRRPGGSAADGRRRPREQRSLRLSINARERRRMHDLNDAL  
DGLRAVIPYAHSPSVRKLSKIATLLAKNYILMQAALDEMRLVAFLNQGQGLAAPVNA  
APLTPFGQATVCPFSAGAALGPCDKCAAFSGTPSALCKHCEKP

>sp|P53004|BIEA\_HUMAN Biliverdin reductase A OS=Homo sapiens GN=BLVRA PE=1 SV=2  
MNAEPERKFGVVVGVRAGSVRMRDLRNPHPSAFLNLIGFVSRRELGSIDGVQQISLE  
DALSSQEVEVAYICESSESSHEDIYRQFLNAGKHVLEYPMTLSLAAQELWELAEQKGKV  
LHEEHVELLMEEFAFLKKEVVGKDLLKGSLLFTAGPLEEERFGFPAFSGISRLTWLVSLF  
GELSLVSATLEERKEDQYMKMTVCLETEKKSPLSWIEEKGPGLKRNRYLSFHFKSGSLEN  
VPNVGVNKNIFLKDQNFVQKLLGQFSEKELAAEKKRILHCLGLAEIYKYCCSRK

>sp|O00499|BIN1\_HUMAN Myc box-dependent-interacting protein 1 OS=Homo sapiens GN=BIN1  
PE=1 SV=1  
MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGADETKDEQFEQCVQNFNKQLTEGTR  
LQKDLRTYLASVKAMHEASKKLNECLQEVYEPDWGRDEANKIAENNDLLWMDYHQLVD  
QALLTMDTYLGQFPDIKSRIAKRGRKLVYDYSARHHYESLQTAKKKDEAKIAKPVSLLEK  
AAPQWCQGKLQAHLVAQTNLLRNQAEELIKAQKVFEEMNVDLQEELPSLWNSRVGFYVN  
TFQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHSNTFTVKAQPSDNAPAKGNKSPSP  
DGSPAATPEIRVNHEPEPAGGATPGATLPKSPSQLRKGPVPPPPKHTPSKEVKQEQILS  
LFEDTFVPEISVTTSPSQFEAPGPFSEQASLLDLDFDPLPPVTSPVKAPTPSGQSIPWDLW  
EPTESPAGSLPSGEPSAAEGTFAVSWPSQTAEPGPAQPAEASEVAGGTQPAAGAQEPGET  
AASEAASSSLPAVVETFPATVNGTVEGGSGAGRLDLPFGFMFKVQAQHDYTATDTDELQ  
LKAGDVVLVIPFQNPQEEQDEGWLGVKESDWNQHKELEKCRGVFPENFTERVP

>sp|P36542|ATPG\_HUMAN ATP synthase subunit gamma, mitochondrial OS=Homo sapiens GN=ATP5C1  
PE=1 SV=1  
MFSRAGVAGLSAWTLQPQWQIVRNMATLKDITRRLKSIKNIQKITKSMKMVAACKYARAE

RELKPARIYGLGSLALYEKADIKGPEDKKKHL LIGVSSDRGLCGAIHSSIAKQMKSEVAT  
LTAAGKEVMLVGIGDKIRGILYRTHSDQFLVAFKEVGRKPPTFGDASVIALELLNSGYEF  
DEGSIIFNKFRSVISYKTEEKPIFSLNTVASADSMSIYDDIDADVLQNYQEYNLANIIYY  
SLKESTTSEQSARMTAMDNASKNASEMIDKLTFTNRTRQAVITKELIETISGAAALD

>sp|P59510|ATS20\_HUMAN A disintegrin and metalloproteinase with thrombospondin motifs 20  
OS=Homo sapiens GN=ADAMTS20 PE=2 SV=2

MWVAKWLTGLLYHLSLFI TRSWEVDFHPRQEALVRTLSYEVI PERVNEFGEVFPQSHH  
FSRQKRSEALEPMPFRTHYRFTAYGQLFQLNL TADASFLAAGYTEVHLGTPERGAWESD  
AGPSDLRHCFYRGQVNSQEDYKAVVSLCGGLTGTFKGQNGEYFLEPIMKADGNEYEDGHN  
KPHLIYRQDLNNSFLQTLKYCSVSESQIKETSLPFHTYSNMNEDLNMKERV LGHTSKNV  
PLKDERRHSRKKRLISYPRYIEIMVTADAKVVS AHGSLNQLNYILTLMSIVATIYKDPSIG  
NLIHIVVVKLVMIHREEGPVINFDGATTLKNFCSWQQTQNDLDDVHP SHHDTAVLITRE  
DICSSKEKCNMLGLSYLGTICDPLQSCFINEEKGLISAFTIAHELGHTLGVQHDDNPRCK  
EMKVTKYHVMAPALSFHMPWSWSNCSRKYVTEFLDTGYGECLLDKPDDEE IYNLPSELPG  
SRYDGNKQCELAFGPGSQMCPHINICMHLWCTSTEKLHKGCFTQHVPPADGTDCGPGMHC  
RHGLCVNKETETRPVNGEWGPWEFYSSCSRTCGGGIESATRR CNRPEPRNGGNYCVGRRM  
KFRSCNTDSCP KGTQDFREKQCSDFNGKHLDISGIPSNVRWLPRYSGIGTKDRCKLYCQV  
AGTNYFYLLKDMVEDGTPCGTETHD ICVQGGCMAAGCDHVLNSSAKIDKCGVCGDNSSC  
KTITGVFNSSHYGYNVVVKIPAGATNVDIRQYSYSGQPDDSYLALSDAEGNFLFNGN FLL  
STSKKEINVQGTRTVIEYSGSNAVERINSTNRQEKEILIEVLCVGNLYNPDVHYSFNIP  
LEERSDMFTWDPYGPWEGCTKMCQGLQRRNITCIHKS DHSVSDKECDHLPLPSFVTQSC  
NTDCELRWHVIGKSECSQCGGYRTLDIHCMKYSIHEGQTVQVDDHYCGDQLKPPTQEL  
CHGNCVFTRWHYSEWSQCSRSCGGGERSRESYCMNNFGHRLADNECQELSRVTRENCNEF  
SCPSWAASEWSECLVTCGKGTKQRQVWCQLNVDHLS DGF CNSSTKPESLSPCELHTCASW  
QVGPGWPCTTTTCGHGYQMRDVKCVNELASAVLEDTECHEASRP SDRQSCVLTPCSFISKL  
ETALLPTVLIKKMAQWRHGSWTPCSVSCGRGTQARYVSCRDALDRIADESYCAHLPRPAE  
IWDCTPCGEWQAGDWSPCSASC GHGKTTRQVLCMNYHQPIDENYCDPEVRPLMEQECSL  
AACPPAHSHPSPSPVQPSYLLSTNLPLTQKLEDNENQV VHPSVRGNQWRTGPGWGCSSSC  
SGGLQHRAVVCQDENGQSASYCDAASKPELQQCGPGPCPQWNYGNWGECSQTGGG IKS  
RLVICQFPNGQILEDHNCEIVNKPPSVIQCHMHACPADVSWH QEPWTSCSASC GKGRKYR  
EVFCIDQFQRKLEDNCSQVQKPPTHKACRSVRCP SWKANSWNECSVTCGSGVQQRDVYC  
RLKGVGQVVEEMCDQSTRPCSQRRCWSQDCVQHKGMERGR LNCSTSCERKDSHQRMECTD  
NQIRQVNEIVYNSSTISLTSKNCRNPPCNYIVVTADSSQ CANNCGFSYRQRITYCTEIPS  
TKKHKLHRLRP IVYQECPPVPSSQVYQCINSLHLATWKVGKWSKCSVT CGIGIMKRQVK  
CITKHGLSSDLCLNHLKPGAQKKCYANDCKSF TTCKEIQVKNHIRKDG DYLLNIKGRIIK  
IYCADMYLENPKEYLTLVQGEENFSEVYGFRLKNPYQCPFNGSRREDCECDNGHLAAGYT  
VFSKIRIDLTSMQIKTTDLLFSKTI FGNAVPFATAGDCYSAFRCPQGQFSINLSGTGMKI  
SSTAKWLTQGSYTSVSIRSEDGTRFFGKCGGYCGKCLPHMTTGLPIQVI

>sp|P54253|ATX1\_HUMAN Ataxin-1 OS=Homo sapiens GN=ATXN1 PE=1 SV=2

MKSNQERSNECLPPKKREIPATSRSSSEKAPTLP SDNHRVEGTAWLPGNPGGRGHGGGRH  
GPAGTSVELGLQQGIGLHKALSTGLDYSPPSAPRSVPVATTLPAAYATPQGP TPVSPVQY  
AHLPHTFQFIGSSQSYGTYASFIPSQ LIPPTANPVTSAVASAAGATTPSQRSQLEAYSTL  
LANMGSLSQTPGHKAEQQQQQQQQQQQHQHQQQQQQQQQQQQHL SRAPGLITPGSPP  
PAQQNQYVHISSSPQNTGRTASPPAIPVHLHPHQTMIPHTLTLGP PSQVVMQYADSGSHF

VPREATKKAESSRLQQAIIQAKEVLNGEMEKSRRYGAPSSADLGLGKAGGKSVPHPYESRH  
VVVHPSPSDYSSRDPGVRASVMVLPNSNTPAADLEVQQATHREASPSTLNDKSGLHLGK  
PGHRSYALSPHTVIQTTTHSASEPLPVGLPATAFYAGTQPPVIGYLSGQQQAITYAGSLPQ  
HLVIPGTQPLLIPVGSTMEASGAAPAIVTSSPQFAAVPHTFVTALPKSENFNPEALVT  
QAAYPAMVQAQIHLPPVQSVASPAAPPTLPPYFMKGSIIQLANGELKKVEDLKTEDFIQ  
SAEISNDLKIDSSTVERIEDSHSPGVAVIQFAVGEHRAQVSVEVLVEYPPFFVFGQWSSC  
CPERTSQLFDLPCKSLSVGDCISLTLKNLKNKSVKKGQVPDPASVLLKHSKADGLAGSR  
HRYAEQENGINQGSQMSENGELKFPEKMGLPAAPFLTKIEPSKPAATRKRWSAPESR  
KLEKSEDEPPLTLPKPSLIPQEVKICIEGRSNVGK

>sp|O15265|ATX7\_HUMAN Ataxin-7 OS=Homo sapiens GN=ATXN7 PE=1 SV=1

MSERAADDVRGEPRRAAAAAGGAAAAAARQQQQQQQQQPPPPQPPRQQHPPPPRRTRP  
EDGGPGAASTSAAAMATVGERRPLPSPEVMLGQSWNLWVEASKLPGKDGTELDESFKFEG  
KNREVMGLCREDMPIFGFCPAHDDFYLVVCNDCNQVVKPQAFQSHYERRHSSSSKPPLAV  
PPTSVFSFFPSLSKSKGGSASGNSRSSGGVLSASSSSSKLLKSPKEKLQLRGNTRPMHP  
IQQSRVPHGRIMTPSVKVEIHPKMDGTLLKSAVGPTCPATVSSLVKPGLNCPSIPKPTL  
PSPGQILNGKGLPAPPTLEKKPEDNSNNRKFLNKRLSEREFDPDIHCGVIDLDTKKPCTR  
SLTCKTHSLTQRRRAVQGRKRFRDVLAEHKNKTREKELIRHPDSQQPPQPLRDPHPAPPR  
TSQEPHQNPBGVIPSSEKPFVASKPKPHTPSLPRPPGCPAQGGGSAIDPPPVHESPHPP  
LPATEPASRLSSEEGEGDDKEESVEKLDCHYSGHHPQPASFCTFGSRQIGRGYYVFDSRW  
NRLRCALNLMVEKHLNAQLWKKIPVPSTTSPISTRIPHRTNSVPTSQCGVSYLAAATVS  
TSPVLLSSTCISPNSKSVPAHGTTLNAQPAASGAMPVCSMQSRQVSSSSSSPSTPSGLS  
SVPSSPMSRKPPQKLKSSKSLRPKESSGNSTNCQNASSSTSGGSGKKRKNSSPLLHSSSS  
SSSSSSSSSHMESFRKNCVAHSGPPYPSTVTSSHSIGLNCVTNKANAVNVRHDQSGRGPP  
TGSPAESIKRMSVMVNSSDSTLSLGPFIHQSNELPVNSHGSFHSHTPLDKLIGKKRKCS  
PSSSSINSSSKPTKVAKVPAVNNVHMKHTGTIPGAQGLMNSSLHQP KARP

>sp|P27037|AVR2A\_HUMAN Activin receptor type-2A OS=Homo sapiens GN=ACVR2A PE=1 SV=1

MGAAAKLAFVFLISCSGAILGRSETQECLFFNANWEKDRTNQTGVEPCYGDKDKRRHC  
FATWKNISGSIEIVKQGCWLDDINCYDRTDCVEKKDSPEVYFCCCEGNMCNEKFSYFP  
EVTQPTSNPVTPKPPYYNILLYSVLPLMLIAGIVICAFWVYRHHKMAYPPVLVPTQDPGP  
PPPSPLLGLKPLQLLEVKARGRFQCVWKAQLLNEYVAVKIFPIQDKQSWQNEYEVYSLPG  
MKHENILQFIGAEKRGTSVDVDLWLITAFHEKGSLSDFLKANVSWNELCHIAETMARGL  
AYLHEDIPGLKDGHKPAISHRDIKSKNVLLKNNLTACIADFGALALFEAGKSAGDTHGQV  
GTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELASRCTAADGPVDEYMLPFEEEIG  
QHPSLEDMQEVVHHKKRPVLRDYWQKHAGMAMLCETIEECWDHDAEARLSAGCVGERIT  
QMQRLTNIITTEDIVTVVTMTVNTVDFPPKESSL

>sp|Q8ND07|BBOF1\_HUMAN Basal body-orientation factor 1 OS=Homo sapiens GN=BBOF1 PE=2 SV=3

MPSGKGDKKKGKSGKGDTKKIKTDESVDRAKANASLWEARLEVTLSRIKYRDTSRIL  
AKSNEDLKKKQCKMEKDIMSVLSYLKKQDQEKDNMIEKLKQQLNETKEKAQEEKDKLEQK  
YTRQINELEGQFHQKAKEIGMIHTELKAVRQFQKRKIQVERELDDLKENLRNTERIHQET  
LRRLESRFEEKHRLREQAEKKIIMLAERAHHEAIVQLNDAGRNVFKENDYLQKALAYHL  
KETDALQKNSQKLQESHTLLLHQKEINDLLVKEKIMQLVQQRSQIQTLQKKVVNLETALS  
YMTKEFESEVLKLQQHAMIENQAGQVEIDKLQHLLQMKDREMNRVKKLAKNILDERTVEE  
RFFLDALHQVQKQILISRKHQKQIAQAANLKMRAACTGRTEYPKIRTFDGREHSTNSVN  
QDLLEAEKWTHTIEGNVDIGDLTWEQKEKVLRLFLAKMNGCPSRKYNQSSRPPVPDYVVSD

SGETKEFGDESKLQDKIFITQQIAISDSSGEVVLPTIPKEPQESDTGTF

>sp|075815|BCAR3\_HUMAN Breast cancer anti-estrogen resistance protein 3 OS=Homo sapiens  
GN=BCAR3 PE=1 SV=1

MAAGKFASLPRNMPVNHQFPLASSMDLLSSRSPLAEHRPDAYQDVSIHGTLPRKKKGPPP  
IRSCDDFSHMGTLPHSKSPRQNSPVTQDGIQESPWQDRHGETFTFRDPHLLDPTVEYVKF  
SKERHIMDRTPPEKLKKELEEEELLSSDLRSHAWYHGRIPRQVSENLVQRDGDFLVRDSL  
SSPGNFVLTCQWKNLAQHFKINRTVLRLEAYSRVQYQFEMESFDSIPGLVRCYVGNRRP  
ISQQSGAII FQPINRTVPLRCLLEHYGTSPGQAREGSLTKGRPDVAKRLSLTMGGVQARE  
QNLPRGNLLRNKEKSGSQPACLDHMQDRRALSLKAHQSESYLPIGCKLPPQSSGVDTS  
PCPNPVPFRTGSEPALSPAVVRRVSSDARAGEALRGSDSQLCPKPPPKCKVPFLKVPSSPS  
AWLNSEANYCELNPATGCGRGAKLPSCAQGSHTELLTAKQNEAPGPRNSGVNYLILDD  
DDRERPEWEPAAAMEKGQWDKGEFVTPLLETVSSFRPNEFESKFLPPENKPLETAMLKRA  
KELFTNNDPKVIAQHVLSDCRVARILGVSEEMRRNMGVSSGLELITLPHGHQLRLDIE  
RHNTMAIGIAVDILGCTGTLEDRAATLSKIIQVAVELKDSMGDLYSFSALMKALEMPQIT  
RLEKTWTALRHQYTQTALYEKQLKPFKLLHEGRESTCVPPNNVSVPLLMPLVTLMERQ  
AVTFEGTDMWEKNDQSCEIMNLHATARFMAEAADSYRMNAERILAGFQPDDEEMNEICKT  
EFQMRLWWSKGAQVNQTERYEKNQILTALSRKLEPPPVKQAE

>sp|P54687|BCAT1\_HUMAN Branched-chain-amino-acid aminotransferase, cytosolic OS=Homo sapiens  
GN=BCAT1 PE=1 SV=3

MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDNNLVFGTVFTDHMLTV  
EWSSEFGWEKPHIKPLQNLSLHPGSSALHYAVELFGLKAFRGVDNKIRLFQPNLMDRM  
YRSVRATLPPVFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGKKPTK  
ALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCMKGNYGSSLFAQCEAVDN  
GCQQLWLYGEDHQITEVGTMNLFYWINEDGEEELATPPLDGIILPGVTRRCILDLAHQ  
WGEFKVSERYLTMDLTTALEGNRVREMFSGTACVVCPSDILYKGETIHIPTMENGPK  
LASRILSKLTDIQYGREESDWTIVLS

>sp|O15382|BCAT2\_HUMAN Branched-chain-amino-acid aminotransferase, mitochondrial OS=Homo sapiens  
GN=BCAT2 PE=1 SV=2

MAAALGQIWARKLLSVPWLLCGPRRYASSFKAADLQLEMTQKPHKKPGPGEPLVFGKT  
FTDHMLMVEWNDKGWGQPRIQPFQNLTLHPASSSLHYSLLQFEGMKAFKGDQVRLFRP  
WLNMDRMLRSAMRLCLPSFDKLELLECIRRLIEVDKDWVDAAGTSLYVRPVLIGNEPSL  
GVSQPTRALLFVILCPVGAYFPGGSVTPVSLADPAFIRAWVGGVGNKLGNGYGPVTLV  
QQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTEDGVLELVTPPLNGVILPGVVRQS  
LLDMAQTWGEFRVVERTITMKQLLRALLEGVRREVFGSGTACQVCPVHRILYKDRNLHIP  
TMENGPELILRFQKELKEIQYGIRAHWMPV

>sp|Q9HAY6|BCD01\_HUMAN Beta, beta-carotene 15,15'-dioxygenase OS=Homo sapiens  
GN=BCD01 PE=1 SV=1

MDIIFGRNRKEQLEPVRAKVTGKIPAWLQGTLLRNGPGMHTVGESRYNHWFGLALLHSF  
TIRDGEVYYRSKYLRSDTYNTNIEANRIVSEFGTMAYDPCKNIFSKAFSYLSHTIPDF  
TDNCLINIMKCGEDFYATSETNYIRKINPQTLETLEKVDYRKYVAVNLATSHPHYDEAGN  
VLNMGTSIVEKGKTKYVIFKIPATVPEGKKQKSPWKHTEVFCSIPSRSLSPSYHSFG  
VTENYVIFLEQPFRLDILKMATAYIRMSWASCLAFHREEKTYIHIIDQRTRQPVQTKFY  
TDAMVVFHHVNAYEEDGCIVFDVIAYEDNSLYQLFYLANLNQDFKENSRLTSVPTLRRFA  
VPLHVDKNAEVTNLIKVASTTATALKEEDGQVYCQPEFLYEGLELPRVNYAHNGKQYRY

VFATGVQWSPIPTKIIKYDILTKSSLKWREDDCWPAEPLFVPAPGAKDEDDGVILSAIVS  
TDPQKLPFLLILDAKSFTELARASVDVDMHMDLHGLFITDMDWDTKKQAASEEQDRASD  
CHGAPLT

>sp|P20749|BCL3\_HUMAN B-cell lymphoma 3 protein OS=Homo sapiens GN=BCL3 PE=1 SV=2

MPRCPAGAMDEGPVDLRTRPKAAGLPGAALPLRKRPLRAPSPPEAAPGAAGLVVPLDPL  
RGGCDLPAVPGPPHGLARPEALYYPGALLPLYPTRAMGSPFPLVNLPTPLYPMCPMEHP  
LSADIAMATRADEGDTPHIAVVQGNLPAVHRLVNLFQQGGRELDIYNNLRQTPLHLAV  
ITTLPSVVRLVTAGASPMALDRHGQTAHLACEHRSPTCLRALLDSAAPGTLDEARNY  
DGLTALHVAVNTECQETVQLLLERGADIDAVDIKSGRSPLIHAVENNSLSMVQLLQHGA  
NVNAQMYSGSSALHSASGRGLPLVRTLVRSGADSSLKNCHNDTPLMVARSRRVIDILRG  
KATRPASTSQPDSPDRSANTSPSESSRLSSNGLLSASPSSSPSQSPPRDPPGPFMAPPN  
FFLPSPSPPAFLPFAGVLRGPRPVPPSPAPGGS

>sp|Q8WUZ0|BCL7C\_HUMAN B-cell CLL/lymphoma 7 protein family member C OS=Homo sapiens  
GN=BCL7C PE=1 SV=3

MAGRTVRAETRSRAKDDIKKVMATIEKVRWEKRWVTVGDTSLRIFKWPVVDPQEEERR  
RAGGAERSRGRERRGRGASPRGGGPLILLDLNDENSNQSFHSEGLQKGTESPGGTPQ  
PSRPVSPAGPPEGVPEEAQPPRLGQERDPGGITAGSTDEPPMLTKEEPVPELLEAEAPEA  
YPVFEPVPPVPEAAQGDTEDESEGAPPLKRICPNAPDP

>sp|P11274|BCR\_HUMAN Breakpoint cluster region protein OS=Homo sapiens GN=BCR PE=1 SV=2

MVDPVGFAEAWKAQFPDSEPPRMELRSVGDIEQELERCKASIRRLEQEVNQERFRMIYLQ  
TLLAKEKKSYPDQRWGRRAAQAPDGASEPRASASRPQAPADGADPPPAEEPEARPDGE  
GSPGKARPGTARRPGAAASGERDDRGPPASVAALRSNFERIRKGGHQPADAEEKPFYVNV  
EFHHERGLVKVNDKEVSDRISSLSQAMQMERKKSQHGAGSSVGDA SRPPYGRSSESSC  
GVDGDYEDAE LNPRFLKDNLIDANGGSRPPWPPLYQPYQSIYVGGMEGEGKGPLLR SQ  
STSEQEKRLTWPRRSYSPRSFEDCGGYPDPDCSSNENLTSSEEDFSSGQSSRVSPSPTTY  
RMFRDKSRSPSQNSQSFSSSPPTPQCHKRHRHCPVVVSEATIVGVRKTGQIWPNDGEG  
AFHGDADGSFGTPPGYGCAADRAEEQRRHQDGLPYIDDSPSSPHLSSKGRGSRDALVSG  
ALESTKASELDLEKGLEMRKWVLSGILASEETYLSHLEALLPMKPLKAAATTSQPV LTS  
QQIETIFFKVPELYEIHKEFYDGLFPRVQQWSHQQRVGDLFQKLASQLGVYRAFVDNYGV  
AMEMAEEKCCQANAQFAEISENLARSNKDAKDPTTKNSLETLLYKPVDRVTRSTLVLHDL  
LKHTPASHPDHPLLQDALRISQNFLSSINEEITPRRQSM TVKKGEHRQLLKDSFMVELVE  
GARKLRHVFLFTDLLCTKLKQSGGKTQQYDCKWYIPLTDL SFQMVDELEAVNIPLVP  
DEELDALKIKISQIKNDIQREKRANKGSKATERLKKKLEQESLLLLMSPSMAFRVHSRN  
GKSYTFLISSDYERA EWRENIREQQKKCFRSFSLTSVELQMLTNSCVKLQTVHSIPLTIN  
KEDDESPGLYGFLNIVHSATGFKQSSNLYCTLEVDSFGYFVNKAKTRVYRDTAEPN WNE  
EFEIELEGSQTLRILCYEKCYNKTIKPKEDGESTDRLMGKGQVQLDPQALQDRDWQRTVI  
AMNGIEVKLSVKFNSREFSLKRMP SRKQTGVFGVKIAVVTKRERSKVPYIVRQCVEEIER  
RGMEEVG IYRVSGVATDIQALKAADFVNKDVSVMMSEMDVNAIAGTLKLYFRELPEPLF  
TDEFYPNFAEGIALSDPVAKESCMLNLLLSLPEANLLTFLFLDHLKRVAEKEAVNKMSL  
HNLATVFGPTLLRPSEKESKLPANPSQPITMTDSWSLEVMSQVQVLLYFLQLEAIPAPDS  
KRQSILFSTE V

>sp|Q93088|BHMT1\_HUMAN Betaine--homocysteine S-methyltransferase 1 OS=Homo sapiens  
GN=BHMT PE=1 SV=2

MPPVGGKKAKKGILERLNAGEIVIGDGGFVFALEKRGYVKAGPWTPEAAVEHPEAVRQLH

REFLAGSNVMQTFTFYASEDKLENRGNVLEKISGQEVNEAACDIARQVADEGDALVAG  
GVSQTPSYLSCKSETEVKKVFLQQLLEVFMKKNVDFLIAEYFEHVVEEAVWAVETLIASGKP  
VAATMCIGPEGDLHGVPPEGCAVRLVKAGASIIIGVNCHFDPITSLKTVKLMKEGLEAARL  
KAHLMSQPLAYHTPCNKQGFIDLPEFPFGLERPVATRWDIQKYAREAYNLGVRYIGGCC  
GFEPYHIRAIAEELAPERGFPPASEKHGSGWGSGLDMHTKPWVRARARKEYWENLRIASG  
RPYNPSMSKPDGWSGVTGTAELMQQKEATTEQQLKELFEKQKFKSQ

>sp|P55957|BID\_HUMAN BH3-interacting domain death agonist OS=Homo sapiens GN=BID PE=1  
SV=1

MDCEVNNGSSLRDECITNLLVFGFLQSCSDNSFRRELDALGHLPVLAPQWEGYDELQTD  
GNRSSHSRLGRIEADSESQEDIIRNIARHLAQVGSMDRSIPPGLVNGLALQLRNTSRSE  
EDNRDLATALEQLLQAYPRDMEKEKTMLVLALLLAKKVASHTPSLLRDVFHTTVNFINQ  
NLRTYVRSLARNGMD

>sp|Q9Y6D6|BIG1\_HUMAN Brefeldin A-inhibited guanine nucleotide-exchange protein 1 OS=Homo  
sapiens GN=ARFGEF1 PE=1 SV=2

MYEGKTKTNMFLTRALEKILADKEVKKAHHSQLRKACEVALEEIKAETEKQSPPHGEAKA  
GSSTLPPVKSKTNFIEADKYFLPFELACQSKCPRIVSTSLDCLQKLIAYGHLTGNAPDST  
TPGKKLIDRIIETICGCFQGPQTDEGVQLQIIKALLTAVTSQHIEIHEGTVLQAVRTCYN  
IYLASKNLINQTTAKATLTQMLNVIFARMENQALQEAKQMEKERHRQHHLQLQSPVSHHE  
PESPQLRYLPPQTVDHISQEHEGDLHTNDVDKSLQDDTEPENGSDISSAENEQTEADQ  
ATAAETLSKNEVLYDGENHDCEEKPDIVQNIVEEMVNIVVGDMEGTTINASADGNIGT  
IEDGSDSENIQANGIPGTPISVAYTPSLPDDRLSVSSNDTQESGNSSGSPGAKFSHILQ  
KDAFLVFRSLCKLSMKPLSDGPPDPKSHELRSKILSLQLLSILQNAGPIFRTNEMFINA  
IKQYLCVALSKNGVSSVPEVFELSLSIFLTLLSNFKTHLMQIEVFFKEIFLYILETSTS  
SFDHKWMVIQTLTRICADAQSVVDIYVNYDCDLNAANIFERLVNDLSKIAQGGRGSQELGM  
SNVQELSLRKKGLECLVSILKCMVEWSKDQYVNPNSQTTLGQEKPEQEMSEIKHPETIN  
RYGSLNSLESTSSSGIGSYSTQMSGTDNPEQFEVLKQKKEIEEQIDLFNKKPKRGIQYL  
QEQGMLGTTPEDIAQFLHQEERLDSTQVGEFLGDNDFNKEVMYAYVDQHDFSGKDFVSA  
LRMFLEGFRLPGEAQKIDRLMEKFAARYLECNQGQTLFASADTAYVLAYSIIMLTTDLHS  
PQVKNKMTKEQYIKMNRGINDSKDLPEEYLSAIYNEIAGKKISMKETKELTIPTKSSKQN  
VASEKQRRLLYNLEMEQMAKTAKALMEAVSHVQAPFTSATHLEHVRPMPKLAWTPFLAAF  
SVGLQDCDDTEVASLCLGIRCAIRIACIFSILQERDAYVQALARFTLLTVSSGITMKQ  
KNIDTIKTLITVAHTDGNYLGNWHEILKCISQLELAQLIGTVKPRYISGTVRGREGSL  
TGTKDQAPDEFVGLGLVGGNVWKQIASIQESIGETSSQSVVAVDRIFTGSTRLDGNAI  
VDFVRWLCAVSMDELLSTTHPRMFSLQKIVEISYNNMGRIRLQWSRIWEVIGDHFNKVGC  
NPNEVAIFAVDLSRLQSMKFLEKGELANFRFQKDFLRPFEHIMKRNRSPTIRDMVVRCI  
AQMVNSQAANIRSGWKNIFSVFHLAASDQDESIVELAFQTTGHIVTLVFEKHFPATIDSF  
QDAVKCLSEFACNAAFPDTSMEDIAIRLIRHCAKYVSDRPQAFKEYTSDDMNVPEDRVWVR  
GWFPILFELSCIINRCKLDVRTRGLTVMFEIMKTYGHTYKHHWQDLFRIVFRIFDNMKL  
PEQQTEKAEWMTTCNHALYAI CDVFTQYLEVLSDVLLDDIFAQLYWCVQQDNEQLARSG  
TNCLENVVILNGEFTLEIWDKTCNCTLDIFKTTIPHALLTWRPNSETAPPPSPVSEK  
PLDTISQKSVDIHDSIQPRSVNRPQAPLVSASAVNEEVSKIKSTAKFPEQKLF AALLIK  
CVVQLELIQTIDNIVFFPATSKKEDAENLAAAQRDAVDFDVRVDTQDQGMFRFLTSQQLF  
KLLDCLLESHRFAKAFNSNNEQRTALWKAGFKGSKPNLLKQETSSLACGLRILFRMYMD  
ESRVSAAWEEVQQRLLNVCSEALSYFLTLSHREAWTNLLLLFLTKVLKISDNRFKAHA



SFYYPPLLCEIMQFDLIPELRAVLRRFFLRIGVVFQISQPPEQELGINKQ

>sp|Q9Y6D5|BIG2\_HUMAN Brefeldin A-inhibited guanine nucleotide-exchange protein 2 OS=Homo sapiens GN=ARFGEF2 PE=1 SV=3

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NFIEADKYFLPFELACQSKSPRVVSTSLDCLQKLIAYGHITGNAPDSGAPGKRLIDRIVE  
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>sp|Q5TH69|BIG3\_HUMAN Brefeldin A-inhibited guanine nucleotide-exchange protein 3 OS=Homo sapiens GN=ARFGEF3 PE=1 SV=3

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>sp|095393|BMP10\_HUMAN Bone morphogenetic protein 10 OS=Homo sapiens GN=BMP10 PE=1 SV=1

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>sp|095972|BMP15\_HUMAN Bone morphogenetic protein 15 OS=Homo sapiens GN=BMP15 PE=1 SV=2

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>sp|Q9NSY1|BMP2K\_HUMAN BMP-2-inducible protein kinase OS=Homo sapiens GN=BMP2K PE=1 SV=2

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>sp|P12645|BMP3\_HUMAN Bone morphogenetic protein 3 OS=Homo sapiens GN=BMP3 PE=1 SV=2

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>sp|Q7Z5Y6|BMP8A\_HUMAN Bone morphogenetic protein 8A OS=Homo sapiens GN=BMP8A PE=2 SV=2

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>sp|Q53S33|BOLA3\_HUMAN Bola-like protein 3 OS=Homo sapiens GN=BOLA3 PE=1 SV=1

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>sp|Q96FH0|BORCS8\_HUMAN BLOC-1-related complex subunit 8 OS=Homo sapiens GN=BORCS8 PE=1 SV=1

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 GN=BPESC1 PE=2 SV=1  
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QQQGLGLQPPQALQARLQQQSQPTTRGSAPAASQPAGKPQPGPSTATGPQAGPPRAE  
QTNGSKGTAKAPQQGRAPQAQAPGPGPAGVKAGARPGGTPGAPAGQPGADGESVFSKIL  
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>sp|Q13410|BT1A1\_HUMAN Butyrophilin subfamily 1 member A1 OS=Homo sapiens GN=BTN1A1 PE=1 SV=3

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LELRWFRKKVSPAVLVHRDGREQEAEQMPEYRGRATLVQDGI AKGRVALRIRGVRVSDDG  
EYTCCFREDGSYEEALVHLKVAALGSDPHISMVQVQENGEICLECTSVGWYEPQVQWRTS  
KGEKFPSTSES RNPDEEGLFTVAASV IIRDTSAKNVSCYIQNLLGQEKKVEISIPASSL  
PRLTPWIVAVAVILMVLGLLTIGSIFFTWRLYNERPRERRNEFSSKERLLEELKWKKATL  
HAVDVTLDPDTAHPLFLYEDSKSVRLEDSRQKLPEKTERFDSWPCVLGRETFTSGRHYW  
EVEVGDRTDWAIGVCRENVMKGFDPMTPENGFWAVELYNGYWALTPLRTPLPLAGPPR  
RVGIFLDYESGDISFYNMNDGSDIYTFSNVTFSGPLRPFCLWSSGKKPLTICPIADGPE  
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>sp|O14981|BTAF1\_HUMAN TATA-binding protein-associated factor 172 OS=Homo sapiens GN=BTAF1 PE=1 SV=2

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AAGQAVEAIVKNVPEWNPVPRTRQEPTSESSMEDSPTTERLNFRFDICRL LQH GASLLG  
SAGAEFEVQDEKSGEVDPKERIA RQRKLLQKKLGLNMGEAIGMSTEELFNDEDLDYTPTS  
ASFVNKQPTLQAAELIDSEFRAGMSNRQKNKAKRMAKLFAKQRSRDAVETNEKSNDSTDG  
EPEEKRRKIANVVINQSANDSKVLIDNIPDSSSLIETNEWPLESFCEELCNDLFNPSWE  
VRHGAGTGLREILKAHGKSGGKMGDSTLEEMIQQHQEWLEDLVIRLLCVFALDRFGDFVS  
DEVVAPVRETCAQTLGVVLKHMNETGVHKTVDVLLKLLTQE QWEVRHGGLLG I KYALAVR  
QDVINTLLPKVLTRIIEGLQDLD DDVRAVAAASLPVVESLVYLQTQKVPFIINTLWDAL  
LELDDL TASTNSIMTLLSLLTYPVQVQCSIQQSLTVLVPRVWPFLHHTISSVRRAALET  
LFTLLSTQDQNSSSWLIPILPDMLRHIFQFCVLESSQEILDLIHKVWMELLSKASVQYVV  
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KSALQRISVALVICEWAALQKECKAVTLAVQPRLLDILSEHLYYDEIAVPFTRMQNECKQ  
LISSLADVHIEVGNRVNNNVLTI DQASDLVTTVFNEATSSFDLNPQVLQQLD SKRQQVQM

TVTETNQEWQVLQLRVHTFAACAVVSLQQLPEKLNPIIKPLMETIKKEENTLVQNYAAQC  
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HHTVTKHRGIITLYRHQKAFAITSRRGPTPKAVKAQIADLPAGSSGNILVELDEAQKPY  
LVQRRGAEFALTTIVKHFGGEMAVKLPHLWDAMVGPLRNTIDINNFDGKSLLDKGDSPAQ  
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QLLLDCGLNGSTSESGTESVVAQHRILIFCQLKSMLDIVEHDLLKPHLPSVTYLRLDGS  
IPPGQRHSIVSRFNNDPSIDVLLLTTHVGGLGLNLTGADTVVFVEHDWNPMDLQAMDRA  
HRIGQKRVVNVYRLITRGTLEEKIMGLQKFKMNIANTVISQENSSLQSMGTDQLLDLFTL  
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>sp|Q9H0C5|BTBD1\_HUMAN BTB/POZ domain-containing protein 1 OS=Homo sapiens GN=BTBD1 PE=1 SV=1

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FLFNSELLSDVRFLVGKRGAAAGGPQRIPAHRFVLAAGSAVFDAMFNGGMATTSAEIE  
LPDVEPAAFLALLRFLYSDEVQIGPETVMTTLYTAKKYAVPALEAHCVEFLTKHLRADNA  
FMLLTQARLFDEPQLASLCLDTIDKSTMDAISAEGFTDIDIDTLCAVLERDTL SIRESL  
FGAVVRWAEAEQQRQLPVTFGNKQKVLGKALSIRFPLMTIEEFAAGPAQSGILSDREV  
VNLFLHFTVNPKRVEYIDRPRCCLRGKECCINRFQQVESRWGYSGTSDRIRFTVNRRI  
IVGFLYGSIHGPTDYQVNIQIIIEYEKKQTLGQNDTGFSCDGTANTFRVMFKEPIELPN  
VCYTACATLKGPD SHYGTKGLKKVVHETPAASKTVFFFSSPGNNNGTSIEDGQIPEIIF  
YT

>sp|Q53HL2|BOREA\_HUMAN Borealin OS=Homo sapiens GN=CDCA8 PE=1 SV=2

MAPRKGSSRVAKTNSLRRRKLASFLKDFDREVEIRIKQIESDRQNLLKEVDNLYNIEILR  
LPKALREMNWLDYFALGGNKQALEEAATADLDITEINKLTAEAIQTPLKSAKTRKVIQVD  
EMIVEEEEEENERKNLQATARVKRCPPSKKRTQSIQKGKGRSSRANTVTPAVGRLEVS  
MVKPTPGLTPRFDSRVFKTPGLRTPAAGERIYNISGNGSPLADSKEIFLTPVGGGESLR  
LLASDLQRHSIAQLDPEALGNIKKLSNRLAQICSSIRTHK

>sp|Q86WA6|BPHL\_HUMAN Valacyclovir hydrolase OS=Homo sapiens GN=BPHL PE=1 SV=1

MVAVLGGRGVLRLRLLSALKPGIHVPRAGPAAFGTSVTSKAVAVNGVQLHYQQTGED  
HAVLLLPGMLGSETDFGPQLKNLNKKLFTVVAWDPRGYGHSRPPDRDFPADFFERDAKD  
AVDLMKALKFKKVSLLGWSGGITALIAAAKYPSYIHKMVIWGANAYVTDEDSMIYEGIR  
DVSKWSERTRKPLEALYGYDYFARTCEKWVDGIRQFKHLPDGNICRHLLPRVQCPALIVH  
GEKDPLVPRFHADFTHKHVKSRLHLMPEGKHNLHLRFADEFNKLAEDFLQ

>sp|Q96DR5|BPIA2\_HUMAN BPI fold-containing family A member 2 OS=Homo sapiens GN=BPIFA2 PE=1 SV=2

MLQLWKLVLGCVLTGTSESLLDNLGNDLSNVVDKLEPVLHEGLETVDNTLKGILEKLKV  
DLGVLQKSSAWQLAKQKAQAEKLLNNVISKLLPTNTDIFGLKISNSLILDVKAEPIDDG

KGLNLSFPVTANVTVAGPIIGQIINLKASDLLTAVTIETDPQTHQPVAVLGECASDPTS  
ISLSLLDKHSQIINKFVNSVINTLKSTVSSLLQKEICPLIRIFIHSLDVNVIQQVVDNPQ  
HKTQLQTLI

>sp|095861|BPNT1\_HUMAN 3' (2'), 5'-bisphosphate nucleotidase 1 OS=Homo sapiens GN=BPNT1  
PE=1 SV=1

MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICS  
SLARKFPKLTIIIEEDLPSEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWVDPD  
GTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGF  
QLKEVPAGKHIITTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFAS  
PGCKKWDTCAPVILHAVGGKLTIDHGNVLQYHKDVKHMNSAGVLATLRNYDYASRVPE  
SIKNALVP

>sp|Q12830|BPTF\_HUMAN Nucleosome-remodeling factor subunit BPTF OS=Homo sapiens GN=BPTF  
PE=1 SV=3

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VNKVYDDHESEEEEEEDMVSEEEEEEDGAEETQDSEDEEDEMEEDDDSDYPEEME  
DDDDASYCTESSFRSHSTYSSTPGRRKPRVHRPRSPILEEKDIPPLEFPKSSDLMVPN  
EHIMNVIAIYEVLNFGTVLRLSPFRFEDFCAALVSQEQCTLMAEMHVLLKAVLREEDT  
SNTTFGPADLKDSVNSTLYFIDGMTWPEVLRVYCESDKEYHHVLPYQEAEDYPYGPVENK  
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LEEVPEDWQCEVCVAHKVPGVTDCAEIQKNKPYIRHEPIGYDRSRRKYWFLNRRLIE  
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ARGSNKSFLAAANEEILESIRAKKGDIDNVKSPEETEKDKNETENDSKDAEKNREEFEDQ  
SLEKDSDDKTPDDDPQKGKSEEPTEVGDKGNSVSANLGDNTTNATSEETSPSEGRSPVGC  
LSETPDSSNMAEKKVASELPQDVPEEPNKTCESSNTSATTTSIQPNLENSNSSSELNSSQ  
SESAKAADDPENGERESHPTVSIQEEIVGDFKSEKSNGELSES PGAGKGASGSTRIITRL  
RNPDSKLSQLKSQVAAAHEANKLFKEGKEVLVNSQGEISRLSTKKEVIMKGNINNYF  
KLGQEGKYRVYHNQYSTNSFALNKHQHREDHDKRRHLAHKFCLTPAGEFKWNGSVHGSKV  
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VMLPIWRESLGHTLHRMTSIEREEKEKVKKKEKKQEEETMQQATWVKYTFPVKHQVWK  
QKGEEYRVTYGGWSWISKTHYRVFVPKLPGNTNVNRYKSLEGTKNNMDENMDESDDRKC  
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SSTENCAKSTVTTTTTIVTKLSTPSTGGSVDIISVKEQSKTVTTTTVTDSTTTGGTLVT  
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GGIREVPYFNYNAKPALDIWPYSPRPTFGITWRYRLQTVKSLAGVSLMLRLLWASLRWD  
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>sp|Q6PJG6|BRAT1\_HUMAN BRCA1-associated ATM activator 1 OS=Homo sapiens GN=BRAT1 PE=1  
SV=2

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SGWIIQLRSLAQHPSALRFLADHGAVDTIFSLQGDSSLFVASAASQLLVHVLALSMRGA  
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SPRVACLLERDPIPAAHSFVDLLLCVARSPVFSSSDGSLWETVARALSCLGPTHMGPLAL  
GILKLEHCPQALRTQAFQVLLQLACVLKATVQAPGPPGLLDGTADDATTVDTLASKSS  
CAGLLCRTLAHLEELQPLPQRSPWPQASLLGATVTVLRLCDGSAAPASSVGGHLCGTLA  
GCVRVQRAALDFLGTLSQGTGPQELVTQALAVLLECLESPGSSPTVLKAFQATLRWLLS  
SPKTPGCSDLGPLIPQFLRELFPVLQKRLCHPCWEVRDSALEFLTQLSRHWGGQADFRCA  
LLASEVPQALQLLDQDESIVRASAVTAMGQLSSQGLHAPTSPEHAEARQSLFLELLHIL  
SVDSEGFPRRAVMQVFTEWLRDGHADAAQDTEQFVATVLQAASRDLDWEVRAQGLELALV  
FLGQTLGPPTHCPYAAVALPEVAPAQPLTEALRALCHVGLFDFAFCALFDCDRPVAQKSC  
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>sp|Q8WUW1|BRK1\_HUMAN Protein BRICK1 OS=Homo sapiens GN=BRK1 PE=1 SV=1  
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>sp|Q9HCU9|BRMS1\_HUMAN Breast cancer metastasis-suppressor 1 OS=Homo sapiens GN=BRMS1  
PE=1 SV=1

MPVQPPSKDTEEMAEAGDSAAEMNGEEEESEERSGSQTESEESSEMDDYERRRSEC  
VSEMLDLEKQFSELKEKLFRRERLSQLRLLEEVGAEARPEYTEPLGGLQRSLKIRIQVAG  
IYKGFCLDVIRNKYECQLGAKQHLESEKLLLYDTLQGELQERIQRLEEDRQSLDLSSEW

WDDKLHARGSSRSWDSLPPSKRKKAPLVSGPYIVYMLQEIDILEDWTAIKKARAAVSPQK  
RKSDGP

>sp|P32247|BRS3\_HUMAN Bombesin receptor subtype-3 OS=Homo sapiens GN=BRS3 PE=1 SV=1

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GILGNAILIKVFFKTKSMQTPVNIFITSLAFGDLLLLTCVPVDATHYLAEGWLFGRIGC  
KVL SFIRLTSVGVSVFTLTILSADRYKAVVKPLERQPSNAILKTCVKAGCVWIVSMIFAL  
PEAIFSNVYTFRDPNKNMTFESCTSYPVSKLLQEIHSLLCFLVFIIPLSIISVYYSLI  
ARTLYKSTLNIPTEEQSHARKQIESRKRIARTVLVLVALFALCWLPHLLYLYHSFTSQT  
YVDPSAMHFIFTIFSRVLAFSNSCVNPFALYWLSKSFQKHFKQLFCCAERPEPPVADT  
SLTTLAVMGTVPGTGSIQMSEISVTSFTGCSVKQAEDRF

>sp|Q9NSI6|BRWD1\_HUMAN Bromodomain and WD repeat-containing protein 1 OS=Homo sapiens  
GN=BRWD1 PE=1 SV=4

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RILGHLSAVYCVAFDRTGHRIFTGSDDCLVKIWSHNGRLLSTLRGHSAEISDMAVNYEN  
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WQWDLESCLKFSRPLKFTEKPRPGVQMLCSSFSVGGMFLATGSTDHVIRMYFLGFEAPEK  
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EERFMKPKVTMIAWNQNDISIVTAVNDHVLKVWNSYTGQLLHNLMGHADEVFVLETHPFD  
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MGDEVIYFRQGHEAYIEAVRRNNIYELNPNKEPWRKMDLRDQELVKIVGIRYEVGPPTLC  
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EQSLKSEIEEEELKDENQLLPVSSSHTAQSNVDESENDRSESESDLRVARKNWHANGYKS  
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RKYNTFHKNASFFKTKILSDSESESEEQDREDGKCHKMEMNPISGNLNCDP IAMSQCS  
SDHGCETDLSDDDKIEKPNNFMKDSASQDNGLSRKISRKRVCSSDSDSSLQVVKSSKA

RTGLLRITRCAATAANKIKLMSDVEDVSLENVHTRSKNGRKKPLHLACTTAKKKLSDCE  
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LRTYGKAPFSKTKVIHDSQETAKEVKRKRSHPELENVKISETTGNSKFRPDTSSKSSDL  
GSVTESDIDCTDNTKTKRRKTKGAKVVRKEFVPRDREPNTKVRTCMHNQKDAVQMPSET  
LKAKMVPEKVP RRCAATVAANKIKIMSNLKETISGPENVWIRKSSRKLPHRNASAAAKKKL  
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>sp|Q96G97|BSCL2\_HUMAN Seipin OS=Homo sapiens GN=BSCL2 PE=1 SV=3

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>sp|Q7KYR7|BTN2A1\_HUMAN Butyrophilin subfamily 2 member A1 OS=Homo sapiens GN=BTN2A1 PE=1  
SV=3

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RVQKEEELQVKEKLQEELRWRRFTLHAVDVVLDPDTAHPDLFLSEDRRSVRRCPFRLGE  
SVPDNPERFDSQPCVLGRESFASGKHYWEVEENVIEWTVGVCRDVERKGEVLLIPQNG  
FWTLEMHKGQYRAVSSPDRILPLKESLCRVGVFLDYEAGDVSYFNMRDRSHIYTCPRSAF  
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>sp|Q5XKL5|BTBD8\_HUMAN BTB/POZ domain-containing protein 8 OS=Homo sapiens GN=BTBD8 PE=2  
SV=2

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TFSVGCTLFKAHKAVLLARVPDFYFHTIGQTSNSLTNQEP IAVENVEALEFRTFLQIIYS  
SNRNIKNYEEIILRKKIMEIGISQKQLDISFPKCENSSDCSLQKHEIPEDISDRDDDFIS  
NDNYDLEPASELGEDLLKLYVKPCPDIDIFVDGKRFAHRAILSARSSYFAAMLSGCWA  
ESSQEYVTLQGISHVELNVMHFYGGTLDIPDKTNVGQILNMADMYGLEGLKEVAIYIL  
RRDYCNFFQKVPVPTLTLSILECLIIAHSVGVESLFADCMKWIVKHFARFWSEFSANIPP  
EIQKSCLNMLIQSLVSIT

>sp|Q96Q07|BTBD9\_HUMAN BTB/POZ domain-containing protein 9 OS=Homo sapiens GN=BTBD9 PE=1  
SV=2

MSNSHPLRPFTAVGEIDHVHILSEHIGALLIGEEYGDVTFVVEKKRFP AHRVILAARCQY  
FRALLYGGMRESQPEAEIPLQDTTAEFTMLLKYIYTGRATLTDEKEEVLLDFLSLAHKY  
GFPELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLS  
LSKTALLNIVLRDSFAAPEKDIFLALLNWCKHNSKENHAEIMQAVRLPLMSLTELNNVVR  
PSGLLSPDAILDAIKVRSESRMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGGT  
QNYDLDHGFSRHPIDDDCRSGIEIKLGQPSIINHIRILLWDRDSRSYSYFIEVSMDELDW  
VRVIDHSQYLCRSWQKLYFPARVCRYIRIVGTHNTV NKIFHIVAFECMFTNKFTLEKGL

IVPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSGYTCHQLGSGAIVVQLAQPYM  
IGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSWQSVTFERQPASFIRIVG  
THNTANEVFHCVHFCEPEQQSSQKEENSEESGTGDTSLAGQQLDHALRAPSGSSLPSSP  
GSNSRSPNRQHQ

>sp|Q32M84|BTBDG\_HUMAN BTB/POZ domain-containing protein 16 OS=Homo sapiens GN=BTBD16  
PE=2 SV=2

MIMSNTHKARLERRVTGSTNRWRLPKQPFSGDLLSLSQMCKALSIDFEEALRNPDRLCIS  
QIQKFFNFENFKNKDIQSGEADVILECLGFKWELHQPQLFQSETLAKLYLKALAAGTTHPL  
RELEELLRAQSPKKTKKESPAKRIIISLKINDPLVTKVAFATALKNLYMSEVEINLEDLL  
GVLASAHLQFSGLFQRCVDVMIARLKPSTIKKFYEAGCKYKEEQLTGCEKWLEMNLP  
LGGTQIHLHKIPQDLLHKVLKSPRLFTFSEFHLKTMLLWVFLQLNYKIQAIPTYETVMT  
FFKSPENCFLDRDIGRSLRPLFLCLRLHGITKGKDEVLRLNFFPESWLDQVTVNHY  
HALENGDMVHLKDLNTQAVRFGLLFNQENTTYSKTIALYGFFFKIKGLKHDTTYSFYM  
QRIKHTDLESPSAVYEHNVSLRAARLVKYEIRAEALVDGKWQEFRTNQIKQKFGLTSS  
CKSHTLKIQTVGPIPIYVSFAFIFPAS

>sp|C9JJ37|BTBDJ\_HUMAN BTB/POZ domain-containing protein 19 OS=Homo sapiens GN=BTBD19  
PE=2 SV=1

MEPLGLVVHGKAEPFSAALRSLVNNPRYSVCFVVGQERQEVFAHRCLLACRCNFFQRL  
GTEPGPGVPSPVVLSTVPTEAFLAVLEFLYTNVSVKLYRHSVLEVLTAAVEYGLEELRELC  
LQFVVKVLDVDLVCEALQVAVTFGLGQLQERCVAFIEAHSQEALRTRGFLELSAAALLPL  
LRSDKLCVDEAELVRAARSWARVGAVALERPVAEVAAPVVKELRLALLAPAELSALEEQN  
RQEPLIPVEQIVEAWKCHALRRGDEARGAPCRRRRGTLPREHHRFLDLSFK

>sp|Q7Z6A9|BTLA\_HUMAN B- and T-lymphocyte attenuator OS=Homo sapiens GN=BTLA PE=1 SV=3

MKTLPAMLGTGKLFVWFLLIPYLDIWNHKGESCDVQLYIKRQSEHSILAGDPFELECPV  
KYCANRPHVTWCKLNGTTCVKLEDRQTSWKEEKNISFFILHFEPVLPNDNGSYRCSANFQ  
SNLIESHSTTLYVTDVKSASERPSKDEMASRPWLLYRLLPLGGLPLLITTCFCLFCCLRR  
HQGKQNELSDTAGREINLVDHLKSEQTEASTRQNSQVLLSETGIYDNDPDLCFRMQEGS  
EVYSNPCLEENKPGIVYASLNHSHVIGPNSRLARNVKEAPTEYASICVRS

>sp|O60566|BUB1B\_HUMAN Mitotic checkpoint serine/threonine-protein kinase BUB1 beta  
OS=Homo sapiens GN=BUB1B PE=1 SV=3

MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKR  
AFEYEIRFYTGNDPLDVWDYISWTEQNYPQGGKESNMSTLLERAVALQGEKRYSDPR  
FLNLWLKLGRLCNEPLDMYSYLNQGIGVSLAQFYISWAEYEARENFRKADAIQEGIQ  
QKAEPLERLQSQHRQFQARVSRQTLLALEKEEEEEVFESSVPQRSTLAEKSKGKKTARA  
PIIRVGGALKAPSQNRGLQNPFPQMQNNSRITVFDENADEASTAELSKPTVQPWIAPPM  
PRAKENELQAGPWNTGRSLEHRPRGNTASLIAPPAVLPSFTPYVEETARQPVMTCKIEP  
SINHILSTRKPGKEEGDPLQRVQSHQQAASEEKKEKMMYCKEKIYAGVGEFSFEEIRAEVF  
RKKLKEQREAELLTSAEKRAEMQKQIEEMEKKLKEIQTTQQERTGDQQEETMPTKETTKL  
QIASESQKIPGMTLSSSVCQVNCCARETSLAENIWQEQPHSKGPSVPFSIFDEFLSEKK  
NKSPPADPPRVLAQRRLAVLKTSESITSNEDVSPDVCDEFTGIEPLSEDAIITGFRNVT  
ICPNPEDTCDFARAARFVSTPFHEIMSLKDLPSDPERLLPEEDLDVKTSEDQQTACGTIY  
SQTLSIKKLSPIIEDSREATHSSGFSGSSASVASTSSIKCLQIPEKLELTNETSENPTQS  
PWCSQYRRQLLKSPELSASAELCTEDRPMCKLEIEKEIELGNEDYCIKREYLICEDYKL  
FWVAPRNAELTVIKVSSQPVWDFYINLKLKERLNEDFDHFCSCYQYQDGCIVWHQYIN

CFTLQDLLQHSEYITHEITVLIYINLLTIVEMLHKAIEIVHGDLSRCLILRNRIHDPYDC  
NKNNQALKIVDFSYSVDLRVQLDVFTLSGFRTVQILEGQKILANCSSPYQVDLFGIADLA  
HLLLFKEHLQVFWGDSFWKLSQNISELKDGEWLNKFFVRILNANDEATVSVLGELAAEMN  
GVFDTTFQSHLNKALWKVGKLTSPGALLFQ

>sp|Q5T3Y7|BVAS1\_HUMAN Putative uncharacterized protein BVES-AS1 OS=Homo sapiens GN=BVES-  
AS1 PE=5 SV=1

MLRSTFTVHWTTLIGICRPIKPIYKSQACPLSEKRNADNHLVSEDNTFKEPERYISSSCV  
LTSILYLGEKTFSFRTLISPRGMKLVEILQQPSLTMVA

>sp|Q8N1D0|BWR1B\_HUMAN Beckwith-Wiedemann syndrome chromosomal region 1 candidate gene B  
protein OS=Homo sapiens GN=SLC22A18AS PE=2 SV=3

MGELPGSEGWMENCPLGWVKKKASGTLAPLDFLLQKRKLWLWASEPVRPQPQGIHRFREA  
RRQFCMRGRSRLTGGRKGFSSGLRFGRGGFSEEVMPQPVLKAMRCAEGAWWFSPPGAG  
SAASIWPAEGAELPGQLGRDRLEVVSYPDNVPGQNGSRRPLVCKITGKCLSVCSEENA  
KAGGCSAFPLLSQLGARMTGREHAHKGPELTTPDSGLPRPPNPALAGFRALAQHSPPPLG  
TSTPSAVLLSAAT

>sp|Q07021|C1QBP\_HUMAN Complement component 1 Q subcomponent-binding protein,  
mitochondrial OS=Homo sapiens GN=C1QBP PE=1 SV=1

MLPLLRCVPRVLGSSVAGLRAAAPSPFRQLLQPAPRLCTRPFGLLSVRAGSERRPGLLR  
PRGPCACGCGCSLHTDGDKAFVDLFLSDEIKEERKIQKHKTLPKMSGWELELNGTEAKL  
VRKVAGEKITVTFNINNSIPPTFDGEEEPSQGQKVEEQEPELTSTPNFVVEVIKNDDGKK  
ALVLDCHYPEDEVGQDEDAESDIFSIREVSFQSTGESEWKDNTNYTLNTDSLWDALYDHLM  
DFLADRGVNTFADELVELSTALEHQEYITFLEDLKSFKVKSQ

>sp|Q86Z23|C1QL4\_HUMAN Complement C1q-like protein 4 OS=Homo sapiens GN=C1QL4 PE=2 SV=1

MVLLLLVAIPLLHSSRGPAHYEMLGRCRMVCDPHGPRGPGPDGAPASVPPFPFGAKGEV  
GRRGKAGLRGPPGPPGPRGPPGEPGRPGPPGPPGPGGVAPAAGYVPRIAFYAGLRRPH  
EGYEVLRFDVVTVNGNAYEAAASKFTCPMPGVYFFAYHVLMRGGDGTSMWADLMKNGQV  
RASAIQAQDADQNYDYASNSVILHLDVGDEVFIKLDGGKVHGGNTNKYSTFSGFIIYPD

>sp|Q9BXJ1|C1QT1\_HUMAN Complement C1q tumor necrosis factor-related protein 1 OS=Homo  
sapiens GN=C1QTNF1 PE=1 SV=1

MGRGQGGLLLAYCLLLAFASGLVLSRVPHVQGEQQEWEGTEELSPPDHAERAEQHEKY  
RPSQDQGLPASRCLRCCDPTGSMYPATAVPQINITILKGEKGDGRGLQGKYGKTGSAG  
ARGHTGPKGQKSGMAGPERCKSHYAAFSVGRKKPMHSNHYYQTVIFDTEFVNLYDHFNM  
FTGKFYCYVPGLYFFSLNVHTWNQKETYLHIMKNEEEVILFAQVGDRSIMQSQSLMLEL  
REQDQVWVRLYKGERENAIFFSEELDTYITFSGYLVKHATEP

>sp|Q9BXJ3|C1QT4\_HUMAN Complement C1q tumor necrosis factor-related protein 4 OS=Homo  
sapiens GN=C1QTNF4 PE=1 SV=2

MLPLLLGLLGPAACWALGPTPGPGSSELRSASFSAARTTPLEGTSEMAVTFDKVYVNIGGD  
FDVATGQFRCRVPGAYFFSFTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQ  
SAMLQLDYGDTVWRLRHGAPQYALGAPGATFSGYLVYADADADAPARGPPAPPEPRSAFS  
AARTRSLVGS DAGPGRHQPLAFDTEFVNIGGDFDAAAGVFRCLPGAYFFSFTLGLKLP  
KTL SVKLMKNRDEVQAMIYDDGASRRREMQSQSVMLALRRGDAVWLLSHDHDGYGAYSNH  
GKYITFSGFLVYPDLAPAAPPGLGASELL

>sp|P09871|C1S\_HUMAN Complement C1s subcomponent OS=Homo sapiens GN=C1S PE=1 SV=1

MWCIVLFSLLAWVYAEPTMYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIE

LSENCAYDSVQIIISGDTEEGRLCGQRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERF  
TGFAAYVATDINECTDFVDVPCSHFCNNFIGGYFCSCPPEYFLHDDMKNCGVNCSGDVF  
TALIGEIASPNYPKYPENSRCYQIRLEKGFQVVVTLRREDFDVEAADSAGNCLDSL VF  
VAGDRQFGPYCGHGFPGPLNIETKSNALDIIFQTDLTGQKKGWKLRYHGDPMPCPKEDTP  
NSVWEPAAKAYVFRDVVQITCLDGFVVEGRVGATSFYSTCQSNKGWSNSKLKCPVDCG  
IPESIENGKVEDPESTLFGSVIRYTCEEPYYMENGSGGEYHCAGNGSWVNEVLGPELPK  
CVPVCGVPREPFEKQRIIGGSDADIKNFPWQVFFDNPWAGGALINEYVWLTAAHVVEGN  
REPTMYVGSTSVQTSRLAKSKMLTPEHVFIHPGWKLLVPEGRTNFDNDIALVRLKDPVK  
MGPTVSPICLPGTSSDYNLMDGDLGLISGWGRTEKRDRAVRLKAARLPVAPLRKCKEVKV  
EKPTADAEAYVFTP NMICAGGEKGMDSCKGDSSGGAFAVQDPNDKTKFYAAGLVSWGPQCG  
TYGLYTRVKNYVDWIMKTMQENSTPRED

>sp|Q96NR2|C2AS1\_HUMAN Putative uncharacterized protein C20orf166-AS1 OS=Homo sapiens  
GN=C20orf166-AS1 PE=2 SV=3

MQTLATGHLAHEGSSPHKLSGGRTQESSGFSEAKGGHGAPRHSASHGATPSGLRRGLHCR  
EGPSDSGFQPHPGPPLSVPSGPLAPRARRHPNPLGMSVLRMWHTRPGRATLLLLHPPQPW  
IRGLYRGQKFTQSR

>sp|Q86YS7|C2CD5\_HUMAN C2 domain-containing protein 5 OS=Homo sapiens GN=C2CD5 PE=1 SV=1

MPGKLKVKIVAGRHLPVMDRASDLTDAFVEVKFGNTTFKTDVYLKSLNPQWNSEWFKFEV  
DDEDLQDEPLQITVLDHDTYSANDAIGKVYIDIDPLLYSEAAVISGWFPYDTHGIRG  
EINVVKVDLFDNLRFRQSSCGVKFFCTTSIPKCYRAVIHGFVEELVVNEDPEYQWID  
RIRTPRASNEARQLISLMSGELQRKIGLVLEMGRNAVVGYLQCFDLEGESGLVVRAIG  
TACTLDKLSSPA AFLPACNSPSKEMKEIPFNEDPNPNTHSSGPSTPLKNQTYSFSPSKSY  
SRQSSSDTDLSLTPKTGMGSGSAGKEGGPFKALLRQQTQSALEQREFPFFTLTAFPPGF  
LVHVGGVVSARSVKLLDRIHNPDEPETRDAWWAEIRQEIKSHAKALGCHAVVGYSESTSI  
CEEVCILSASGTA AVLNP RFLQDGTVEGCLEQRLEENLPTRCGFCHIPYDELNMPFPAHL  
TYCYNCRKQKVPDVLFTTIDLPTDATVIGKGCLIQARLCRLKKKAQAEANATAISNLLPF  
MEYEVHTQLMNKLKLG MNALFGLRIQITVGENMLMGLASATGVYLAALPTPGGIQIAGK  
TPNDGSYEQHISHMQKINDTIAKNKELYEINPPEISEEIIIGSPIPEPRQRSRLLSQSE  
SSDEVTELDLSHGKKDAFVLEIDDDAMEDVHSLLDVPPPSGFYSCNTEIMPGINNWT  
EIQMFTSVRVIRLSSLNLTNQALNKNFNDLCENLLKSLYFKLRSMIPCCCHVNFTVSLP  
EDELIVTVTAVAITFDKNQALQTTKTPVEKSLQRASTDNEELLQFPLELCSDSLPSHPF  
PPAKAMTVEKASPGDGNFRNRSAPPCANSTVGVMKMTPLSFIPGAKITKYLGIINMFFI  
RETTSLREEGGVSGFLHAFIAEVFAMVRAHVAALGGNAVVSYIMKQCVFMENPNKNQAQC  
LINVSGDAVVFVRES DLEVSSQQPTTNCQSSCTEGEVT

>sp|Q9P2K1|C2D2A\_HUMAN Coiled-coil and C2 domain-containing protein 2A OS=Homo sapiens  
GN=CC2D2A PE=1 SV=3

MNPREEKVKIITEEFIENDEADMGQRQKNKSVRRQPRKKQPPTAVPKEMVSEKSHLGNP  
QEPVQEEP KTRLLSMTVRRGPRSLPPI PSTSRTGFAEF SMRGRMREKLQAARSKAESALL  
QEIPTPRPRLRSPSKKELETEFGTEPGKEVERTQQEVDSQSYSRVKFHDSARKIKPKPQ  
VPPGFP SAEAYNFFT FNFDPEPEGSEEKPKARHRAGTNQEEEEEEEEPPAQGGGKEMD  
EEELLNGDDAEDFLLGLDHVADDFVAVRPADYESIHDRLQMEREMLFIPSRQTVPTYKKL  
PENVQPRFLEDEGLTYGVRPEVARTNQ NIMENRLLMQDPERRWFGDDGRILALPNPIKPF  
PSRPPVL TQEQSIKAELETLYKAVKYVHSSQHVIIRSGDPPGNFQLDIDISGLIFTHHPC  
FSREHVLA AKLAQLYDQYLARHQ RNKAKFLTDKLQALRNAVQTGLDPEKPHQSLDTIQKT

INEYKSEIRQTRKFRDAEQEKDRTLLKTI IKVWKEMKSLREFQRFTNTPLKLVL RKEKAD  
QKADEEAYEAE IQAE ISELLEEHTEEYAQKMEEYRTSLQQWKA WRKVQRAKKKKRKQAAE  
EHPGDEIAEPYPEEDLVKPSPEPTDRAVIEQEV RERAAQSRRRPWEPTLVPELSLAGSV  
TPNDQCPRAEVSRRDEDVKRSVYLKVL FNNKEVSRTVSRPLGADFRVHFGQIFNLQIVNW  
PESLTLQVYETVGHSSPTLLAEVFLPIPETTVVTGRAPTEEVEFSSNQHVTL DHEGVGSG  
VPFSFEADGSNQLTLMTSGKVSHSVAWAIGENGIPLIPLSQQNIGFRSALKKADAISSI  
GTSGLTDMKKLAKWAAESKLDPNPNAPLMQLISVATSGESYVPDFFRLEQLQ QEFNFV  
SDQELNRSKRFRLLHLRSQEVPEFRNYKQVPVYDREIMEKVFQDYEKRLDRNVIETKEH  
IDTHRAIVAKYLQQVRESVINRFLIAKQYFLLADMIVEEVPNISILGLSLFKLAEQKRP  
LRPRRGRKKVTAQNLSDGDIKLLVNIVRAYDIPVRKPAVSKFQQPSRSSRMFSEKHAAS  
PSTYSPTHNADYPLGQVLVRPFVEVSFQRTVCHTTTAEGPNPSWNEEELPF RAPNGDYS  
TASLQSVKDVVFINIFDEVLHDVLEDDRERGS GIHTRIERHWLGCVKMPFSTIYFQARID  
GTFKIDIPPVLLGYSKERNMILERGFD SVRSLSEGSYITLFIITIEPQLVPGESIREKFES  
QEDEKLLQATEKFQAEALCFPNRQCLTTVIDISGKT VFITRYLKPLNPPQELLNVPNN  
LQATAELVARYVSLIPFLPDTVSFGGICDLWSTSDQFLDLLAGDEEEHAVLLCNYFLSLG  
KKAWLLMGNAIPEGPTAYVLTWEQG RYLIWNPCSGHFYGGQFDTFCPLKNVGCLIGPDNIW  
FNIQRYESPLRINFVTRPKLWKSFFSRSLPYPGLSSVQPEELIYQRSDKAAAAELQDRI  
EKILKEKIMDWRPRHLTRWNR YCTSTLRHFLPLEKSQGEDVEDDHRAELLKQLGDYRFS  
GFPLHMPYSEVKPLIDAVYSTGVHNIDVPNVEFALAVYIHPYPKNVLSVWIYVASLIRNR

>sp|P04003|C4BPA\_HUMAN C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

MHPPKTPSGALHRKRKMAAWPFSRLWKVSDPILFQMTLIAALLPAVLGNC GPPPTLSFAA  
PMDITLTETRFKTGTTLKYTCLPGYVRSHSTQTLTCNSDGEWVYNTFCIYKRCRHPGELR  
NGQVEIKTDL SFGSQIEFSCSEGFFLIGSTTSRCEVQDRGVGWSHPLPQCEIVKCKPPPD  
IRNGRHSGEENFYAYGFSVTYSCDPRFSLLGHASISCTVENETIGVWRPSPPTCEKITCR  
KPDVSHGEMVSGFGPIYNYKDTIVFKCQKGFVLRGSSVIHCDADSKWNPSPPACEPNSCI  
NLDPIPHASWETYPRPTKEDVYVVGTVLRYRCHPGYKPTTDEPTTVICQKNLRWTPYQGC  
EALCCPEPKLNNGEITQHRKSRPANHC VYFYGDEISFSCHETSRFSAICQGDGTWSPRTP  
SCGDICNFPPKIAHGHYKQSSSYFFKEEIIYECDKGYILVGQAKLSCSYSHWSAPAPQC  
KALCRKPELVNGRLSVDKDQYVEPENVTIQCDSGYGVVGPQSITCSGNRTWYPEVPKCEW  
ETPEGCEQVLTGKRMLMQCLPNPEDVKMALEVYKLSLEIEQLELQRDSARQSTLDKEL

>sp|P21730|C5AR1\_HUMAN C5a anaphylatoxin chemotactic receptor 1 OS=Homo sapiens GN=C5AR1  
PE=1 SV=2

MDSFNYTTPDYGHYDDKDTLDLNT PVDKTSNTLRVPDILALVIFAVVFLVGV LGNALVVW  
VTAFEAKRTINAIWFLNLAVADFLSCLALPILFTSIVQH HHPFGGAACSILPSLILLNM  
YASILLLATISADRFLLVFKPIWCQNFRGAGLAWIACAVAWGLALLLTIPSFLYRVVREE  
YFPPKVL CGVDYSHDKRRERAVAIVRLVLGFLWPLLTLTICYTFILLRTWSRRATRSTKT  
LKVVVAVVASFFIFWLPYQVTGIMMSFLEPSSPTFLLKKLDSL CVSFAYINCCINPIIY  
VVAGQGFQGRLRKSLPSLLRNVLTEESVVRESKS FTRSTVDTMAQKTQAV

>sp|Q9NSG2|CA112\_HUMAN Uncharacterized protein Clorf112 OS=Homo sapiens GN=Clorf112 PE=1  
SV=1

MFLPHMNLTL EQTFFSQVLPKTVKLFDDMMYELTSQARGLSSQNLEIQTTLRNILQTMV  
QLLGALTGCVQHICATQESIILENIQSLPSSVLHIKSTFVHCKNSESVYSGCLHLVSDL  
LQALFKEAYS LQKQLMELLDVMCDPLVDDNDDILNMVIVIHSLLDICSVISSMDHAFHA  
NTWKFI IKQSLKHQSIIKSQLKHKDIITSLCEDILFSFHSCLQLAEQMTQSDAQDNADYR

LFQKTLKLCRFFANSLHYAKEFLPFLSDSCCTLHQLYLQIHSKFPPSLYATRISKAHQE  
EIAGAFVLVTDPLISQLLTFQPFMQVVLDSKLDLPCELQFPQCLLL VVMDKLPSQPKEV  
QTLWCTDSQVSETTRISLLKAVFYSFEQCSGELSLPVHLQGLKSKGKAEVAVTLYQHVC  
VHLCTFITSFHPSLFAELDAALLNAVLSANMITSLAMDWCFLARYGTAECAHHVTIV  
AHLIKSCPGECYQLINLSILLKRLFFFMAPPHQLEFIQKFSPKEAENLPLWQHISFQALP  
PELREQTVHEVTTVGTAECKWLSRSRTLGELESLNTVLSALLAVCNSAGEALDTGKQTA  
IIEVVSQWLWAFNLKQVADQPYVQQTFSLLLPLLGFFIQTLDPKLILQAVTLQTSLLKLE  
LPDYVRLAMLDVSSLGKLFIP EATQDRILPNLSCMFALLADRSWLLEQHTLEAFTQFA  
EGTNHEEIVPQCLSSEETKNKVVSFLEKTGFVDETEAAKVERVKQEKGIWEPFANVTVE  
EAKRSSLPYAKRARQEFPWEEYRSALHTIAGALEATESLLQKGPAPAWLSMEMEALQE  
RMDKLKRYIHTLG

>sp|Q8N9H9|CA127\_HUMAN Uncharacterized protein Clorf127 OS=Homo sapiens GN=Clorf127 PE=2 SV=2

MKCPMLRSRLGQESVHCGPMFIQVSRPLPLWRDNRQTPWLLSLRGELVASLEDASLMGLY  
VDMNATTVTQSPRQGLLRWEVSGGQALPGVSFQPESEVLVHIPKQRLGLVKRGSYIE  
ETLSLRFRLRVHQSNI FMVTENKDFVVVSIPAAGVLQVQRCQEVGGTPGTQAFYRVDSLE  
FAEMAAPVLWTVESFFQCVGSGTESPASTAALRTTPSPSPGPETPPAGVPPAASSQVWA  
AGPAAQEWLSRDLLHRPSDALAKKGLGPFLQTAKPARRGQTSASILPRVVQAQRGPQPPP  
GEAGIPGHPTTPATLPSEPVEGVQASPWRRPVLPHTPALTLPVSSDASSPSPPAPRPER  
PESLLVSGPSVTLTEGLGTVRPEQDPAKSPGSPLLLRLGLSSGDVAPEPIMGEPGQASEE  
FQPLARPWATLAAEELVSHRSPGEPQETCSGTEVERPRQTGPGLPREGARGHMDLSSSE  
PSQDIEGPGLSILPARDATFSTPSVRQPDPSAWLSSGPELTGMPRVRLAAPLAVLPMEPL  
PPEPVRPAALLTPEASSVGGPDQARYLESAPGWPVGQEEWGVAHTSSPPSTQTLSLWAPT  
GVLLPSLVELEYPFQAGRGASLQQLTEPTLALSAESHRPPELQDSVEGLSERPSR

>sp|Q5TEV5|CA134\_HUMAN Putative uncharacterized protein Clorf134 OS=Homo sapiens GN=Clorf134 PE=3 SV=1

MLCCCPLADALLIFLETGSCFQPGQQSETLSQKQNKTNKKWAGGAGCRPFRLWWVGRSR  
GAGVQLYSTKKGWILRGKGGTEA

>sp|Q96MR7|CA145\_HUMAN Putative uncharacterized protein Clorf145 OS=Homo sapiens GN=Clorf145 PE=5 SV=1

MYTASSAETLRTVRRRSVPSSSMPYLALAHNRVSSLNHAASVDGWGTSHRNVADSFRT  
SRSCSRFLKGTAGSARREDWNGHLQPWIPRPDRRGWETADRGERTQVHGLRRSLGPRAP  
HPGAHRALRPAQSCRSGPRGWTPCRCRGRGPTACRRGS

>sp|Q8NAE3|CA180\_HUMAN Putative uncharacterized protein encoded by LINC01555 OS=Homo sapiens GN=LINC01555 PE=2 SV=1

MLGPNAQVTVVVAQPGPDHLDHLLLDTHCQHSSCGSAACTQLTWVPCLGGS HKASIKMS  
AQAVVSTEAPWERPCFQAHLGCLQNSVLCSCRMEGFSFLAMLWGGVGELPSDPRGHLQF  
LAT

>sp|Q5TG92|CA195\_HUMAN Putative uncharacterized protein Clorf195 OS=Homo sapiens GN=Clorf195 PE=2 SV=1

MPSSTLTCKPFDLKQRSSRRGPKSTASASPRSCLKPSCGKQVCLLSVRRSQSLAHPGRD  
STRVLSYQQTSSDAVSQYKHTGKVEELYGLRLSWLSQAQFLLAQDKTAYAVKSVVLPASN  
HKTKGQ



>sp|Q8IVY1|CA210\_HUMAN Type III endosome membrane protein TEMP OS=Homo sapiens GN=Clorf210  
PE=3 SV=1

MNETNKTLPVGPSELPTASAVAPGPGTGARAWPVLVGVFLGAVVLSLLIALAAKCHLCRRY  
HASRHRPLPETGRGGRPQVAEDEDGFIEDNYIQPGTGELGTEGSRDHFSL

>sp|Q6PIY5|CA228\_HUMAN Uncharacterized protein Clorf228 OS=Homo sapiens GN=Clorf228 PE=2  
SV=2

MTSIKEQAAISRLSFLQEWDNAGKVARSHILDKFIETNQKTAPELEQEFSQGASLFLV  
RLTTSRLRITYMTDSCLEKLLRSIGIFLSAVSSNRYLIEFLEVGGVLTLEILGLEKIKEE  
AKKESVKLLQVIANSGRTYKELICESYGVRSIAEFLAKSKSEETQEEVQVLLDSLHGNP  
KYQNQVYKGLIALLPCESPKAQQLSLQTLRTAQPIIGTTHPSIVDCVLKVLGTMHLEVQY  
EATIELIKDLVGYDVRQALLKGLVALLIPSVKEISKLQAKILSDPSVLQLTPSLPMFLQQA  
AAKAIGVLARNMSIAEELLYLRVVRGLMAAMGNTDHSNSQRLASLTLECFVQMFPLVA  
EHVRKCMGEELYQLFLSNAEDLYMKIDSIQADILAANTVNVTKALCLHGSSYSMTLYGS  
RDSAQMAYLTHFEEDVESKE

>sp|Q9NPB3|CABP2\_HUMAN Calcium-binding protein 2 OS=Homo sapiens GN=CABP2 PE=1 SV=4

MGNCAKRPWRRGPKDPLQWLGSPPRGSCSPSSSPKEQGDPAQGVQGYSVLNSLVGPACI  
FLRPSIAATQLDRELPEEIEELQVAFQEFDRDRDGYIGCRELGACMRTLGYMPTEMEI  
EISQQISGGKVFDEFVELMGPKLLAETADMIGVRELDAFREFDNGDGRISVGELRAA  
LKALLGERLSQREVDEILQDVDLNGDGLVDFEEFVRMSR

>sp|P57796|CABP4\_HUMAN Calcium-binding protein 4 OS=Homo sapiens GN=CABP4 PE=1 SV=2

MTTEQARGQQGNLAIGRQKPPAGVVTPKSDAEEPPLTRKRSKGERLGRSRKRTGSSGE  
QTGPEAPGSSNNPPSTGEGPAGAPPASPGPASSRQSHRHRPDSLHDAQRTYGPLLNRVF  
GKDRELGPEELDELQAAFEEDTDRDGYISHRELGDCMRTLGYMPTEMEELLEVSQHIKMR  
MGGRVDFEEFVELIGPKLREETAHMLGVRELRIAFREFDRDRDGRITVAELREAVPALLG  
EPLAGPELDEMLREVDLNGDGTVDDEFVMMLSRH

>sp|Q01668|CAC1D\_HUMAN Voltage-dependent L-type calcium channel subunit alpha-1D OS=Homo  
sapiens GN=CACNA1D PE=1 SV=2

MMMMMMKKMQHQRRQQADHANEANYARGTRLPLSGEGPTSQPNSSKQTVLSWQAIDAA  
RQAKAAQTMSTSAPPPVGSLSQRKRQQYAKSKKQGSSNSRPARALFCLSLNNPIRRACI  
SIVEWKPFDFILLAI FANCV ALAIYIPFPEDDSNSTNHNLEKVEYAFLLIFTVETFLKI  
IAYGLLLHPNAYVRNGWNLLDFVIVIVGLFSVILEQLTKETEGGNHSSGKSGGFDVKALR  
AFRVLRLRLVSGVPSLQVVLNSIIKAMVPLLHIALLVFVIIYAIIGLELFIGKMHKT  
CFFADSDIVAEEDPAPCAFSGNGRQCTANGTECRSGWVGPNGGITNFDNFAMLTVFQC  
ITMEGWTDLVYWMNDAMGFELPWVYFVSLVIFGSFFVLNLVLGVLSGEFSKEREKAKARG  
DFQKLREKQQLLEEDLKGYLDWITQAEDIDPENEEEGGEEGKRNTSMPTSETESVNTENVS  
GEGENRGCCGSLCQAISKSKLSRRWRRWNRFNRRRCRAAVKSVTFYWLIVLVFLNTLTI  
SSEHYNQPDWLTQIQDIANKVLLALFTCEMLVKMYSLGLQAYFVSLFNRFDVFCVCGGIT  
ETILVELEIMSPLGISVFRVRLRLRIFKVTRHWTSLSNLVASLLNSMKSIASLLLLFLF  
IIIFSLLGMQLFGGKFNFDETQTKRSTFDNFPQALLTVFQILTGEDWNAVMYDGMAYGG  
PSSSGMIVCIYFIILFICGNYILLNVFLAIAVDNLADAESLNTAQKEEAEEKERKKIARK  
ESLENKKNNKPEVNQIANS DNKVTIDDYREDEDKDPYPPCDVPVGEDEDEDEPEVP  
AGPRPRRISELNMKEKIAPIPEGSAFFILSKTNPIRVGCHKLINHHIFTNLILVFI MLSS  
AALAAEDPIRSHSFRNTILGYFDYAFTAIFTVEILLKMTTFGAFLHKGAFCRNYFNLLDM  
LVVGVSLVSFGIQSSAISVVKILRVLRLVRLPLRAINRAKGLKHVVQCVFVAIRTIGNIMI

VTLLQFMFACIGVQLFKGKFYRCTDEAKSNPEECRGLFILYKGDVDSPVVRERIWNQNS  
DFNFDNVL SAMMALFTVSTFEGWPALLYKAIDSNGENIGPIYNHRVEISIFFIIYIIIVA  
FFMMNIFVGVFIVTFQEQQEKEYKNCELDKNQRQCVEYALKARPLRRYIPKNPYQYKFWY  
VVNSSPFEYMMFVLI MLNTLCLAMQHYESKMFNDAMDILNMVFTGVFTVEMVLKVI AFK  
PKGYS DAWNTFDSLIVIGSIIDVALSEADPTESENVVPVPTATPGNSEESNRISITFFRL  
FRVMRLVKLLSRGEGIRTLTWTFIKSFQALPYVALLIAMLFFIYAVIGMQMFGKVAMRDN  
NQINRNNNFQTFPQAVLLLFRCATGEAWQEIMLACLPGKLCDPESDYNPGEEYTCGSNFA  
IVYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKRIWSEYDPEAKGRI  
KHLDVVTLLRRIQPPLGFGKLCPHRVACKRLVAMNPLNSDGTVMFNATLFALVRTALKI  
KTEGNLEQANEELRAVIKKIWKKTSMKLLDQVVPAGDDEVTVGKFYATFLIQDYFRKFK  
KRKEQLVGVKYPAKNTTIALQAGLRTLHDIGPEIRRAISCDLQDDEPEETKREEEDDVFK  
RNGALLGNHNVHNSDRRDSLQQTNTTHRPLHVQRPSIPPASDTEKPLFPFAGNSVCHNH  
HNHNSIGKQVPTSTNANLNNANMSKAAHGKRPSIGNLEHVSSENGHHSSHKHDREPQRRSS  
VKRTRYETYIRS DSGDEQLPTICREDPEIHGYFRDPHCLGEQEYFSSEECYEDDSPTW  
SRQNYGYYSRYPGRNIDSERPRGYHHPQGFLDDDSPVCYDSRRSPRRRLLPPTPASHRR  
SSNFECLERRQSSQEEVPSSPIFPHRTALPLHLMQQQIMAVAGLDSSKAQKYS PSHSTRS  
WATPPATPPYRDWTPCYTPLIQVEQSEALDQVNGSLPSLHRSSWYTDEPDISYRTFTPAS  
LTVPSSFRNKNSDKQRSADSLVEAVLISEGLGRYARDPKFVSATKHEIADACDLTIDEME  
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L

>sp|Q15878|CAC1E\_HUMAN Voltage-dependent R-type calcium channel subunit alpha-1E OS=Homo  
sapiens GN=CACNA1E PE=1 SV=3

MARFGEAVVARPGSGDGDSDQSRNRQGTPVPASGQAAAYKQTKAQRARTMALYNPIPVRRQ  
NCFTVNRSLFIFGEDNIVRKYAKKLIDWPPFEYMILATIIANCIVLALEQHLPEDDKTPM  
SRRLEKTEPYFIGIFCFEAGIKIVALGFIFHKGSYLRNGWNVMDFIVVLSGILATAGTHF  
NTHVDLRTLRAVRVLRPLKLVSGIPSLQIVLKSIMKAMVPLLQIGLLLFFAILMFAIIGL  
EFYSGKLHRACFMNNSGILEGFDPPHPCGVQGPCAGYECKDWIGPNDGITQFDNILFAVL  
TVFQCITMEGWTTVLYNTNDALGATWNWLYFIPLIIIGSFFVLNLVLGVLSGEFAKERER  
VENRRAFMKLRRQQQIERELNGYRAWIDKAEVMLAEENKNAGTSALEVLRRATIKRSRT  
EAMTRDSSDEHCVDISSVGTPLARASIKSAKVDGVSYFRHKERLLRISIRHMKVSKVIFYW  
IVLSLVALNTACVAIVHNPQWLTHLLYYAEFLGLGLFLEMSLKMVGMPRLYFHSSF  
NCFDFGVTVGSI FEVVWAI FRPGTSFGISVLRALRLLRIFKITKYWASLRNLVVS LMSM  
KSIISLLFLLFLFIVVFALLGMQLFGGRFNFNDGTPSANFDTFPAAIMTVFQILTGEDWN  
EVMYNGIRSQQGVSSGMWSAIYFIVLTLFGNYTLLNVFLAIAVDNLANAQELTKDEQEEE  
EAFNQKHALQKAKEVSPMSAPNMPSIERDRRRRHMSMWEPRSSHLRERRRRHHMSVWEQ  
RTSQLRKHMQMSSQEALNREEAPT MNPLNPLNPLSSLNPLNAHPSLYRRPRAIEGLALGL  
ALEKFEERISRGGSLKGDGGRSSALDNQRTPLSLGQREPPWLARPCHGNCPTQQEAG  
GGEAVVT FEDRARHRQSQRSRHRRVRTEGKESSASRSRSASQERSLDEAMPTEGEKDH  
ELRGNHGAKEPTIQEERAQDLRRTNSLMVSRGSLAGGLDEADTPLVLPHELEVGHV  
LTEQEPEGSSEQALLGNVQLDMGRVISQSEPDLS CITANTDKATTESTSVTVAIPDVDPL  
VDSTVVHISNKTDGEASPLKEAEIREDEEEVEKKKQKKEKRETGKAMVP HSSMFI FSTTN  
PIRRACHYIVNLYRFEMCILLVIAASSIALAAEDPVL TNSEKNVLRIFYDYVFTGVFTFE  
MVIKMIDQGLILQDGSYFRDLWNILDV VVVVGALVAFALANALGTNKG RDIKTIKSLRVL  
RVLRLPKTIKRLPKLKAVFDCVVTSLKNVFNILIVYKLFMFIFAVIAVQLFKGKFFYCTD

SSKDTEKECIGNYVDHEKNKMEVKGREWKREHFHYDNI IWALLTLFTVSTGEGWPQVLQH  
SVDVTEEDRGPSRSNMEMSIFYVVYFVVPFFVFNIFVALIIITFQEQGDKMMECSLE  
KNERACIDFAISAKPLTRYMPQNRHTFQYRVWHFVVSFYEYTIMAMIALNTVVLMMKYY  
SAPCTYELALKYLNIAFTMVFSLECVLKVIAFGFLNYFRDTWNIFDFITVIGSITEIILT  
DSKLVNTSGFNMSFLKLFRAARLIKLLRQGYTIRILLWTFVQSFKALPYVCLLIAMLFFI  
YAIIGMQVFGNIKLDEESHINRHNFRSFFGSLMLLFRSATGEAWQEIMLSCLGEKGCEP  
DTTAPSGQNERECGTDLAYVYFVSFIFFCFLMLNLFVAVIMDNFEYLTRDSSILGPHH  
LDEFVRVWAEYDRAACGRIHYTEMYEMLTMSPLGLGKRCPSKVAYKRLVLMNMPVAED  
MTVHFTSTLMALIRALTDIKIAKGADRQQLDSELQKETLAIWPHLSQKMLDLLVMPKA  
SDLTVGKIYAAMMIMDYKQSKVKQRQQLLEEKNAPMFQRMESPSSLPQEIIANAKALPY  
LQQDPVSGLSGRSGYPSMSPLSPQDIFQLACMDPADDGQFQERQSLEPEVSELKSVQPSN  
HGIYLPSDTQEHAGSGRASSMPRLTVDPQVVTDPSSMRRSFSTIRDKRSNSSWLEEFSE  
RSSEYTKSRRRSYHSSLRLSAHRLNSDSGHKSDTHRSGGRERGRSKERKHLSPDVSRC  
NSEERGTDQADWESPERRQSRSPSEGRSQTPNRQGTGSLSESSIPSVSDTSTPRRSRRQLP  
PVPPKPRLLSYSSLIRHAGSISPPADGSEEGSPLTSQALESNNACTESSNSPHPQQSQ  
HASPQRYISEPYLALHEDSHASDCGEEETLTFEAAVATSLGRSNTIGSAPPLRHSWQMPN  
GHYRRRRRGPGPGMMCGAVNNLLSDTEEDDKC

>sp|Q9P0X4|CAC1I\_HUMAN Voltage-dependent T-type calcium channel subunit alpha-1I OS=Homo  
sapiens GN=CACNA1I PE=1 SV=1

MAESASPPSSAAAPAAEPGVTEQPGPRSPSPSGLEEPLDGADPHVPHDLAPIAFF  
CLRQTTSRPNWCIKMVCNPFECVSMLVILLNCVTLGMYQPCDDMDCLSDRCKILQVFDD  
FIFIFFAMEMVLKMVALGIFGKKCYLGDTWNRLDFFIVMAGMVEYSLDLQINLSAIRT  
RVLRPLKAINRVPSMRILVNLLDTPMLGNVLLLCFFVFFIFGIIGVQLWAGLLRNRCF  
LEENFTIQGDVALPPYYQPEEDEMPFICSLSGDNGIMGCHEIPPLKEQGREGCLSDDV  
YDFGAGRQDLNASGLCVNWNRYNVCRTGSANPHKGAINFDNIGYAWIVIFQVITLEGWV  
EIMYYVMDAHSFYNFYIFILLIIVGSFFMINLCLVVIATQFSETKQREHRLMLEQRQRYL  
SSSTVASYAEPGDCYEEIFQYVCHILRKAKRRALGLYQALQSRRQALGPEAPAPAKPGPH  
AKEPRHYHGKTKGQDEGRHLGSRHCQTLHGPA SPGNDHSGRELCPQHSPLDATPHTLVQ  
PIPATLASDPASCPCQHEDGRRPSGLGSTDSGQEGSGSGSSAGGEADGDGARSEDG  
ASSELGKEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIE  
HHEQPEELTNILEICNVVFTSMFALEMILKLAAGFLFDYLRNPYNIFDSIIVIISIWEIV  
GQADGGLSVLRTRFRLLRVLKLVRFMPALRRQLVVLMTMDNVATFCMLLMLFIFIFSILG  
MHIFGCKFSLRTDTGDTVPRKNFDSLLWAIIVTVFQILTQEDWNVVLNGMASTSPWASL  
YFVALMTFGNYVLFNLLVAIIVLVEGFQAEGDANRSYSDQSSNIEEFDKLQEGLDSSGD  
PKLCPIPMPNGHLDPSLPLGGHLGPAGAAGPAPRLSLQPDPMVALGSRKSSVMSLGRM  
SYDQRSLSSSRSSYYGPWGRSAAWASRRSSWNSLKHKPPSAEHESLLSAERGGGARVCEV  
AADEGPPRAAPLHTPHAAHHIHHGPHLAHRHRHHRRTLSDNRDSVDLAEVPAVGAHPRA  
AWRAAGPAPGHEDCNGRMPSTIAKDVFTKMGDRGDRGEDEEIDYTLCFVRKMDIVYKPD  
WCEVREDWSVYLFSPENRFRVLCQTIIAHKLFDYVVLAFIFLNCITIALERPQIEAGSTE  
RIFLTVSNYIFTAIFVGEMTLKVVSLGLYFGEQAYLRSSWNVLDGFLVFSIIDIVVSLA  
SAGGAKILGVLRLRLRLTLRPLRVISRAPGLKLVVETLISSLPKIGNIVLICCAFFIIF  
GILGVQLFKGKFYHCLGVDTRNITNRSDCMAANYRWVHHKYNFDNLGQALMSLFLASKD  
GWNINIMYGLDAVAVDQQPVTNHNPMWMLLYFISFLLIVSFFVLNMFVGVVVENFHKCRQH  
QEAEEARREEKRLRLREKKRRKAQRLPYATYCHTRLLIHSMTSHYLDIFITFIICLN

VVTMSLEHYNQPTSLETALKYCNMF TTVFVLEAVLKLVAFGLRRFFKDRWNQLDLAIVL  
LSVMGITLEEIEINAALPINPTIIRIMRVLRIARVLKLLKMATGMRALLDTVVQALPQVG  
NLGLLFMLLFFIYAALGVELFGKLVCDENPCCEGMSRHATFENFGMAFLTLFQVSTGDNW  
NGIMKDTLRDCTHDERSCSLQFVSPLYFVSFVLTAQFVLINVVAVLMKHLDDSNKEA  
QEDAEMDAELELEMAHGLGPGPRLPTGSPGAPGRGPGGAGGGDTEGGLCRRCYSPAQEN  
LWLDSVSLIIKDSLEGELTIIIDNLSGSIFHHYSSPAGCKKCHDKQEVQLAETEAFSLNS  
DRSSSILLGDDLSEDPACPPGRKDSKGELDPPEPMRVGDLGECFFPLSSTAVSPDPEN  
FLCEMEEIPFNPVRSWLKHDSSQAPPSPFSPDASSPLLMPAEFFHPAVSASQKGPEKGT  
GTGTLPKIALQGSWASLRSRVNCTLLRQATGSDTSLDASPSSSAGSLQTTLEDSTLSD  
SPRRALGPPAPAGPRAGLSAARRRLSLRGRGLFSLRGLRAHQSHSSGGSTSPGCTHH  
DSMDPSDEEGRGGAGGGGAGSEHSETLSSLSTSLFCPPPPPPAPGLTPARKFSSTSSLA  
APGRPHAAALAHGLARSPSWAADRSKDPGRAPLPMGLGPLAPPPQPLPGELEPGDAASK  
RKR

>sp|000305|CACB4\_HUMAN Voltage-dependent L-type calcium channel subunit beta-4 OS=Homo sapiens GN=CACNB4 PE=1 SV=2

MSSSSYAKNGTADGPHSPTSQVARGTTTTRSRKRS DGSTTSTSFILRQGSADSYTSRPS  
DSDVSLEEDREAIRQEREQAAIQLERAKSKPVAFVKTNVSYCGALDEDVVPSTAISF  
DAKDFLHIKEKYNDWWIGRLVKEGCEIGFIPSPLRLENIRIQQEQKRGRFHGGKSSGNS  
SSSLGEMVSGTFRATPTSTAKQKQKVTEHIPPYDVVPSMRPVVLVGPSLKGYEVTMMQK  
ALFDFLKHFRDGRISITRVTADISLAKRSVLNPNPSKRAIIERSNTRSSLAEVQSEIERIF  
ELARSLQLVVLADDTINHPAQLIKTSLAPIIVHVKVSSPKVLQRLIKSRGKSQSKHLNVQ  
LVAADKLAQCPEMFVDILDENQLEDACEHLGEYLEAYWRATHTTSSPTMTPLLGRNLGS  
TALSPYPTAISGLSQRMHRSHNSTENSPIERRSLMTSDENYHNERARKSRNRLSSSSQH  
SRDHYPLVEEDYPDSYQDQTYKPHNRGSPGGYSHDSRHRL

>sp|Q9P1Z2|CACO1\_HUMAN Calcium-binding and coiled-coil domain-containing protein 1 OS=Homo sapiens GN=CALCOCO1 PE=1 SV=2

MEESPLSRAPSRGGVNFLNVARTYIPNTKVECHYTLPPGTMPASDWIGIFKVEAACVRD  
YHTFWSSVPESTTDGSPIHSTSVQFQASYLPKPGAQLYQFRYVNRQQQVCGQSPPFQFRE  
PRPMDLVTLLEADGGSDILLVVPKATVLQNQLDESQQRNDLMQLKLQLEGQVTELRSR  
VQELERALATARQEHTELMEQYKGISRSHGEITEERDILSRQQGDHVARILELEDDIQT  
SEKVLTKVELDRLRDTVKALTREQEKLGLKEVQADKEQSEALQVAQQENHHLNLDL  
KEAKSWQEEQSAQAQRLKDKVAQMKDTLGQAQQRVAELEPLKEQLRGAQELAASSQKAT  
LLGEELASAAAARDRTIAELHRSRLEVAEVNGRLAELGLHLKEEKQWSKERAGLLQSVE  
AEKDKILKLSAEILRLEKAVQEERTQNQVFKTELAREKDSSSLVQLSESKRELTELSALR  
VLQKEKEQLQEEKQELLEMYMRKLEARLEKVADEKWNEDATTEDEAAVGLSCPAALTDSE  
DESPEDMRLPPYGLCERGDPGSPAGPREASPLVVISQPAPISPHLSGPAEDSSSDSEAE  
DEKSVLMAAVQSGGEEANLLLPELGSAFYDMASGFTVGTLSSETSTGGPATPTWKECPICK  
ERFPAESDKDALEDHMDGHFFSTQDPFTFE

>sp|P55289|CAD12\_HUMAN Cadherin-12 OS=Homo sapiens GN=CDH12 PE=2 SV=2

MLTRNCLSLLLWVLDGGLLTPLQPQPQTLATEPRENVIHLPGQRSHFQRVKGWVWNQ  
FFVLEEYVGSEPQYVGKLHSDLDKGEGTVKYTLSGDGAGTVFTIDETTGDIHAIRSLDRE  
EKPFTYTLRAQAVDIETRKPLEPESEFIKQVDINDNEPKFLDGPYVATVPEMSPVGAYVL  
QVKATDADDPTYGNSARVVYSILQGQPYFSIDPKTGVIRTALPNMDREVKEQYQVLIQAK  
DMGGQLGGLAGTTIVNITLTDVNDNPPRFPKSIFHLKVPESPIGSAIGRIRAVDPDFGQ

NAEIEYNIVPGDGGNLFDIVTDEDTQEGVIKLLKKPLDFETTKAYTFKVEASNLHLDHRFH  
SAGPFKDTATVKISVLDVDEPPVFSKPLYTMEVYEDTPVGTIIIGAVTAQDLVDGSSAVRY  
FIDWKS DGDSYFTIDGNEG TIATNELL DRESTAQYNFSIIASKVSNPLLT SKVNILINVL  
DVNEFPPEISVPYETAVCENAKPGQIIQIVSAADRDLSPAGQQFSFRLSPEAAIKPNFTV  
RDFRNNTAGIETRRNGYSRRQQLYFLPVVIEDSSYPVQSSTNTMTIRVCRCDS DGTILS  
CNVEAIFLPVGLSTGALIAILLCIVILLAIVVLYVALRRQKKKDTLMTSKEDIRDNIHY  
DDEGGGEEDTQAFDIGALRNPKVIEENKIRRD IKPDSLCLPRQRPPMEDNTDIRDFIHR  
LQENDVDP TAPPYDSLATYAYEGSGSVAESLSSIDSLTTEADQDYDYLTDWGPRFKVLAD  
MFGEESYNPKVT

>sp|P55290|CAD13\_HUMAN Cadherin-13 OS=Homo sapiens GN=CDH13 PE=1 SV=1

MQPRTPLVLCVLLSQVLLLTSAEDLDCTPGFQQKVFHINQPAEFIEDQSILNLTFS DCKG  
NDKLRYEVSSPYFKVNSDGLVALRNITAVGKTLFVHARTPHAEDMAELVIVGGKDIQGS  
LQDIFKFARTSPVPRQKRSIVVSPILIPENQRQPFPRDVGKVVDSDRPERSKFRLTGKGV  
DQEPKGI FRINENTGSVSVTRTLDREVI AVYQLFVETTDVNGKTLEGPVPLEVIVIDQND  
NRPIFREGPYIGHVMEGSPTGTTVMRMTAFDADDPATDNALLRYNIRQQTPDKPSNMFY  
IDPEKGDIVTVVSPALLDRETLENPKYELIEAQDMAGLDVGLTGATATIMIDDKNDHS  
PKFTKKEFQATVEEGAVGVIVNLTVEDKDDPTTGAWRAAYTIINGNPGQSFEIHTNPQTN  
EGMLSVVKPLDYEISAFHTLLIKVENEDPLVPDVSYGPSSTATVHITVLDVNEGPFVFPD  
PMMVTRQEDLSVGSVLLTVNATDPDSLQHQTI RYSVYKDPAGWLNINPINGTVDTTAVLD  
RESPVDNSVYTALFLAIDSGNPPATGTGTLITLEDVNDNAPFIYPTVAEVCDDAKNLS  
VVILGASDKDLHPNTDPFKFEIHKQAVPDKVWKISKINNTHALVSLLQNLNKANYNLPIM  
VTDSGKPPMTNITDLRVQVCSCRNSKVDCAAGALRFS LPSVLLLSLFSLACL

>sp|P22223|CADH3\_HUMAN Cadherin-3 OS=Homo sapiens GN=CDH3 PE=1 SV=2

MGLPRGPLASLLLLQVCWLQCAASEPCRAVFREAEVTLEAGGAEQEPGQALGKVFMGCPG  
QEPALFSTDNDFFTVRNGETVQERRSLKERNPLKIFPSKRILRRHKRDWVVAPI SVPEG  
KGPFPQRLNQLKSNKDRDTKIFYSITGPGADSPPEGVFAVEKETGWLLLNKPLDREEIAK  
YELFGHAVSENGASVEDPMNISIIIVTDQNDHKPKFTQDTFRGSVLEGVLPGTSVMQVTAT  
DEDDAIYTYNGVVAYSIHSQEPKDPHDLMTIHRSTGTISVISSGLDREKVPEYTLTIQA  
TDMGDGSGSTTTAVAVVEILDANDNAPMFDPPQKYEAHPENAVGHEVQRLTVTDLDAPNSP  
AWRATYLIMGDDGDHFTITTHPESNQGILTTRKGLDFEAKNQHTLYVEVTNEAPFVLKL  
PTSTATIVVHVEDVNEAPVFVPPSKVVEVQEGIPTGEPVCVYTAEDPKENQKISYRILR  
DPAGWLAMD PDSGQVTAVGTLDREDEQFVRNNIYEVMLAMDNGSPPTGTGTLTLLTID  
VNDHGPVPEPRQITICNQSPVRQVLNITDKDLSPHTSPFQAQLTDDSDIYWTAEVNEEGD  
TVVLSLKKFLKQDTYDVHLSLSDHGNKEQLTVIRATVCDCHGVETCPGPWKGGFILPVL  
GAVLALLFLLLVLVLLLVRRKKRIKEPLLLPEDDTRDNVYFYGEEGGGEEDQDYDITQLHR  
GLEARPEVVL RNDVAPTIIPTPMYRPRPANPDEIGNFIIENLKAANTDPTAPPYDTLLVF  
DYEGSGSDAASLSSLTSSASDQDQDYDLNEWGSRFKKLADMYGGGEDD

>sp|P55283|CADH4\_HUMAN Cadherin-4 OS=Homo sapiens GN=CDH4 PE=2 SV=2

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SCVGTKGTQYETNSMDFKVGADGTVFATRELQVPSEQVAFTVTAWDSQTAEKWDAVVRLL  
VAQTSSPHSGHKPQKGGKVVALDPSPPP KDTLLPWPQHQNANGLRRRKRWDVIPPINVPE  
NSRGPFPPQQLVRI RSDKNDIPIRYSITGVGADQPPMEVFSIDMSGRMYVTRPMDREEH  
ASYHLRAHA VDMNGNKVENPIDLYIYVIDMNDNRPEFINQVYNGSVDEGSKPGTYVMTVT  
ANDADDSTTANGMVRYRIVTQTPQSPSQNMFTINSETGDIVTVAAGLDREKVQQYTVIVQ

ATDMEGNLNYGLSNTATAIITVTDVNDNPPEFTASTFAGEVPENRVETVVANLTVMDRDQ  
PHSPNWNNAVYRIISGDPSPGHFSVRTDPVTNEGMVTVVKAVDYELNRAFMLTMVMSNQAPL  
ASGIQMSFQSTAGVTISIMDINEAPYFPSNHKLIRLEEGVPPGTVLTTFSAVDPDRFMQQ  
AVRYSKLSDPASWLHINATNGQITTAAVLDRESLYTKNNVYEATFLAADNGIPPASGTGT  
LQIYLIDINDNAPELLPKEAQICEKPNLNAINITAADADVPNIGPYVFELPFVPAAVRK  
NWTITRLNGDYAQLSLRILYLEAGMYDVPIIVTDSGNPPLSNTSIIKVKVCPCDDNGDCT  
TIGAVAAAAGLTGAIVAILICILILLTMVLLFVMMKRREKERHTKQLLIDPEDDVDRNI  
LKYDEEGGGEEDQDYDLSQLQQPEAMGHVPSKAPGVRRVDERPVGAEPQYPIRPMVPHPG  
DIGDFINEGLRAADNDPTAPPYDSSLVFDYEGSGSTAGSVSSLNSSSSGDQDYDYLNDWG  
PRFKKLADMYGGGEED

>sp|P55285|CDH6\_HUMAN Cadherin-6 OS=Homo sapiens GN=CDH6 PE=1 SV=1

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FLLEEYTGSDYQYVGKLHSDQDRGDGSLKYILSGDGAGDLFIINENTGDIQATKRLDREE  
KPVYILRAQAINRRTGRPEPESEFIKIHDINDNEPIFTKEVYTATVPEMSDVGTFVVQ  
VTATDADDPTYGNSAKVVYSILQGQPYFSVESETGIIKTALLNMDRENREYQVVIQAKD  
MGGQMGGLSGTTTNITLTDVNDNPPRFPQSTYQFKTPESSPPGTPIGRIKASDADVGEN  
AEIEYSITDGEGLDMFDVITDQETQEGIIITVKLLDFEKKKVYTLKVEASNPYVEPRFLY  
LGPFKDSATVRIVEDVDEPPVFSKLAYILQIREDAQINTTIGSVTAQDPDAARNPVKYS  
VDRHTDMDRIFNIDSGNGSIFTSKLLDRETLLWHNITVIAATEINNPKQSSRVPLYIKVLD  
VNDNAPEFAEFYETFCVCEKAKADQLIQTLHAVDKDDPYSGHQFSFSLAPEAASGSNFTIQ  
DNKDNTAGILTRKNGYNRHEMSTYLLPVVISDNDYPVQSSTGTVTVRVCACDHGNNMQSC  
HAEALIHPTGLSTGALVAILLCIVILLVTVVLFAALRRQRKKEPLIISKEDIRDNIIVSYN  
DEGGGEEDTQAFDIGTLRNPEAIEDNKLRRDIVPEALFLPRRTPTARDNTDVRDFINQRL  
KENDTDPTAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDWGPRFKKLADM  
YGGVDSKD

>sp|Q9ULB4|CDH9\_HUMAN Cadherin-9 OS=Homo sapiens GN=CDH9 PE=2 SV=2

MRTYHYIPLFIWTFMHTVDTILLQEKPNLYSSKKIAGLTKDDGKMLRRTKRGWMWNQF  
FLLEEYTGTDYQYVGKLHTDQDKDGNLKYILTDGAGSLFVIDENTGDIHAACKLDREE  
KSLYILRAKAIDRKTGRQVEPESEFIKIHDINDNEPKFTKDLYTASVPESGVGTSVIQ  
VTATDADDANYGNSAKVVYSILQGQPYFSVDPESGIITKALPDMSRENREYQVVIQAKD  
MGGQMGGLSGTTTNITLTDVNNNPPRFPQSTYQFNPSVPLGTHLGRIKANDPDVGEN  
AEMEYSIAEGDGADMFDVITDKDTQEGIIITVKQNLDFENQMLYTLRVDASNTHPDPRFLH  
LGPFKDTAVVKISVEDIDEPPVFTKVSYLEVDEDVKEGSIIGQVTAYDPDARNNLKYS  
VDRHTDMDRIFGIHSENGSIFTLKALDRESSPWHNITVTATEINNPKQSSHIPVFIRILD  
INDHAPEFAMYYETFCENAKPGQLIQTVSVMKDDPPRGHKFFFEVPVEFTLNPNTIV  
DNKDNTAGIMTRKDGYSRNKMSTYLLPILIFDNDYPIQSSTGTLTIRVCACDNQGNMQSC  
TAEALILSAGLSTGALVAILLCVILLILVVLFAALKRQRKKEPLIISKDDVRDNIVTYN  
DEGGGEEDTQAFDIGTLRNPEAREDSKLRRDVMPETIFQIRRTVPLWENIDVQDFIHRRL  
KENDADPSAPPYDSLATYAYEGNDSIADSLSSLESLTADCNQDYDYLSDWGPRFKKLADM  
YGGDDSDRD

>sp|Q9BY67|CADM1\_HUMAN Cell adhesion molecule 1 OS=Homo sapiens GN=CADM1 PE=1 SV=2

MASVVLPSGSQCAAAAAAAPPGLRLRLLLLFSAALIPTGDGQNLFTKDVTVIEGEVA  
TISCQVNSDDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSELKVSLTNVSISDEG  
RYFCQLYTDPPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCTAMASKPATTIRWF

KGNTLKGKSEVEEWSMYTTSQMLKVKHKEDDGVVICQVEHPAVTGNLQTQRYLEVQ  
YKPQVHIQMTYPLQGLTREGDALELTCEAIGKPQPMVTWVRVDDEMPQHAVLSGPNLFI  
NNLKTNDNGTYRCEASNIVGKAHSDYMLVYDPPTTIPPTTTTTTTTTTTTTTILTIITD  
SRAGEEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA  
DTAIINAEGGQNNSEEKEYFI

>sp|P22748|CAH4\_HUMAN Carbonic anhydrase 4 OS=Homo sapiens GN=CA4 PE=1 SV=2

MRMLLALLALSAARPSASAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTK  
AKVDKKLGRFFFSGYDKKTWTQVQNNGHSMMLLENKASISGGGLPAPYQAKQLHLHWS  
LPYKGSEHSLDGEHFAMEMHIVHEKEKGTSRNVKEAQDPEDEIAVLAFLVEAGTQVNEGF  
QPLVEALSNIPKPEMSTTMAESSLLDLLPKEEKLRYFRYLGSLLTPTCDEKVVWTVFRE  
PIQLHREQILAFSQKLYYDKEQTVSMKDNVRPLQQLGQRTVIKSGAPGRPLPWALPALLG  
PMLACLLAGFLR

>sp|Q9Y2D0|CAH5B\_HUMAN Carbonic anhydrase 5B, mitochondrial OS=Homo sapiens GN=CA5B PE=1  
SV=1

MVVMNSLRVILQASPGKLLWRKFQIPRFMPARPCSLYTCTYKTRNRALHPLWESVDLVP  
GDRQSPINIRWRDSVYDPGLKPLTISYDPATCLHVWNGYSFLVEFEDSTDKSVIKGGPL  
EHNYRLKQFHFHGAIDAWGSEHTVDSKCFPAELHLVHWNARFENFEDAALEENGLAVI  
GVFLKLGKHHKELQKLVDTLPSIKHKDALVEFGSFDPSCLMPTCPDYWTYSGSLTTPPLS  
ESVTWIIKKQPVEVDHDQLEQFRTLFTSEGEKEKRMVDNFRPLQPLMNRTVRSSFRHDY  
VLNVQAKPKPATSQATP

>sp|P23280|CAH6\_HUMAN Carbonic anhydrase 6 OS=Homo sapiens GN=CA6 PE=1 SV=3

MRALVLLLSLFLGGQAQHVSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYN  
PSLKGLNMTGYETQAGEFPMVNNGHTVQISLPSTMRMTVADGTVYIAQQMHFWGGASSE  
ISGSEHTVDGIRHVIEIHIVHYNSKYKSYDIAQDAPDGLAVLAAFVEVKNPENTYYSNF  
ISHLANIKYPGQRTTLTGLDVQDMLPRNLQHYYTYHGSLLTPPCTENVHWFVLADFVKLS  
RTQVWKLNSLLDHRNKTIHNDYRRTQPLNHRVVESNFPNQEYTLGSEFQFYLHKIEEIL  
DYLRRALN

>sp|P43166|CAH7\_HUMAN Carbonic anhydrase 7 OS=Homo sapiens GN=CA7 PE=1 SV=1

MTGHHGWGYGQDDGSPSHWHKLYPIAQGDRQSPINIISQAVYSPSLQPLELSYEACMSLS  
ITNNGHSVQVDFNDSDDRTVVTGGPLEGPYRLKQFHFHWGKKHVDGSEHTVDGKSFPS  
HLVHWNAAKYSTFGAASAPDGLAVVGVFLETGDEHPSMNRLTDALYMRVFKGTAKQFSC  
FNPCKLLPASRHYWTYPGSLTTPPLESVTWIVLREPICISERQMGKFRSLLFTSEDDER  
IHMVNNFRPPQPLKGRVVKASFRA

>sp|Q86XJ0|CAHM3\_HUMAN Calcium homeostasis modulator protein 3 OS=Homo sapiens GN=CAHM3  
PE=2 SV=1

MDKFRMLFQHFQSSSESVMNGICLLAAVTVKLYSSFDNCPCLVHYNALYGLGLLLTPP  
LALFLCGLLANRQSVVMVEEWRPAGHRRKDPGIIRYMCSSVLQRALAAPLVWILLALLD  
GKCFVCAFSSVDPEKFLDFANMTPSQVQLFLAKVPCKEDELVRDSPARKAVSRYLRCLS  
QAIGWSVTLLLIIAAFLARCLRPCFDQTVFLQRRYWSNYVDLEQKLFDETCCEHARDFAH  
RCVLHFFASMRSELQARGLRRGNAGRRELPAPPEPPAVPEPPEGLDSGSGKAHLRAISS  
REQVDRLLSTWYSSKPPDLAASPGLCGGGLSHRAPTLALGTRLSQHTDV

>sp|P80723|BASP1\_HUMAN Brain acid soluble protein 1 OS=Homo sapiens GN=BASP1 PE=1 SV=2

MGGKLSKKKKGYNVNDEKAKEKDKKAEGAATEEEGTPKESEPQAAAEPAEAKEGKEKPDQ  
DAEGKAEKEGEKDAAAAKEEAPKAEPEKTEGAAEAKAEPKAPQEQAAPGPAAGGEAP

KAAEAAAAAESAAPAGEEPSKEEGEPKKTEAPAAPAAQETKSDGAPASDSKPGSSEAA  
PSSKETPAATEAPSSTPKAQGPAASAEPPKVEAPAAANSQTVTVKE

>sp|Q9NR55|BATF3\_HUMAN Basic leucine zipper transcriptional factor ATF-like 3 OS=Homo sapiens GN=BATF3 PE=1 SV=1

MSQGLPAAGSVLQRSVAAPGNQPQPQQQSPEDDDRKVRREKNRVAAQRSRKKQTQKA  
DKLHEEYESLEQENTMLRREIGKLTEELKHLTEALKEHEKMCPLLLCPMNFVPVPPRPDP  
VAGCLPR

>sp|Q9UIF8|BAZ2B\_HUMAN Bromodomain adjacent to zinc finger domain protein 2B OS=Homo sapiens GN=BAZ2B PE=1 SV=3

MESGERLPSSAASSTPTSSSTPSVASVSVSKGGLSTGVASLSSTINPCGHLFRTAGDQPF  
NLSTVSSAFPMVSHPVFGLHSASSGHSEFGGLTGLTPTALAAHPQLASFPGAEEWRTTD  
AHTRTGATFFPPLLGIPLFAPPAQNHDSSSFHSRTSGKSNRNGPEKGVNGSINGSENTSS  
VIGINTSVLSTTASSSMGQTKSTSSGGGNRKCNEQESKNQPLDARVDKIKDKKPRKKAME  
SSSNSDSDSGTSSDTSSEGISSSDSDLEDEEEEDQSIEESEDSDSESEAQHKSNQ  
VLLHGISDPKADGQKATEKAQEKRIHQPLPLASESQTHSFQSQKQPQLSQQLPFIFQS  
SQAKEESVNKHTSVIQSTGLVSNVKPLSLVNQAKKETYMKLIVSPDVLKAGNKNTSEES  
SLLTSELRSKREYKQAFPSQLKKQESSKSLKKVIAALSNPKATSSSPAHPKQTLNHP  
NPFLTALLGNHPNGVIQSVIQEAPLALTTKTKMQSKINENIAAASSTPFSSPVNLSTS  
GRRTPGNQTPVMPASPIILHSQGKEKAVSNNVNPVKTQHHSHPAKSLVEQFRGTDSDIPS  
SKDSEDSNEDEEEDDEEEDDEEDEDDESDDSQSESDSNSESDTEGSEEDDDDKQDESD  
SDTEGEKTSMLNKTSSSVKSPMSLTGHSTPRNLHIAKAPGSAPAALCSESQSPAFLGT  
SSSTLTSSPHSGTSKRRRVTDERELRIPLEYGWQRETRIRNFGGRLQGEVAYYAPCGKKL  
RQYPEVIKYLNRNGIMDISRDNFSFSAKIRVGDFYEARDGPQGMQWCLLKEEDVIPRIRA  
MEGRRGRPPNPDRQAREESRMRRRKGRPPNVGNAEFLDNADAKLLRKLQAQEIARQAAQ  
IKLLRKLQKQEQARVAKEAKKQQAIAAAEEKRKQKEQIKIMKQKEKIKRIQQIRMEKELR  
AQQILEAKKKKKEEAAAKLLEAEKRIKEKEMRRQAVLLKHQERERRRQHMLMKAMEA  
RKKAEEKERLKQEKREKRLNKERKLEQRRLELEMAKELKPNEDMCLADQKPLPELPRI  
PGLVLSGSTFSDCLMVVQFLRNFQKVLGFDVNIDVPNLSVLQEGLLNIGDSMGEVQDLLV  
RLLSAAVCDPGLITGYKAKTALGEHLLNVGVNRDNVSEILQIFMEAHCGQTELTSLKTK  
AFQAHTPAQKASVLAFLINELACSKSVVSEIDKNIDYMSNLRRDKWVVEGKLRKLRIIHA  
KKTGKRDTSGGIDLGEEQHPLGTPTPGRKRRRKGGSDYDDDDDDSDQGDEDEDEED  
KEDKKGKKTIDICEDEDEGDQAASVEELEKQIEKLSKQSQYRRKLFDAHSLSRVMFGQD  
RYRRRYWILPQCGGIFVEGMESGEGLEEIAKEREKLKKAESVQIKEEMFETSGDSLNCN  
TDHCEQKEDLKEKDNTNLFQKPGSFSKLSKLLEVAKMPPESEVMTPKPNAGANGCTLSY  
QNSGKHSLSGVQSTATQSNVEKADSNLNTGSSGPGKFYSPLPNDQLLKTLETEKNRQWF  
SLLPRTPCDDTSLTHADMSTASLVTPQSQPPSKSPSPTPAPLGSSAQNPVGLNPFALSPL  
QVKGVSMMGLQFCGWPTGVVTSNIPFTSSVPSLGSGLGLSEGNGNSFLTNSNVASSKSES  
PVPQNEKATSAQPAAVEVAKPVDFPSPKPIPEEMQFGWWRIIDPEDLKALLKVLHLRGIR  
EKALQKQIQKHLDYITQACLKNKDVAIIELNENEENQVTRDIVENWSVEEQAMEMDLSVL  
QQVEDLERRVASASLQVKGWMCPEPASEREDLVYFEHKSFTKLCKEHDGEFTGEDESSAH  
ALERKSDNPLDIAVTRLADLERNIERRIEEDIAPGLRVWRRALSEARSAAQVALCIQQLQ  
KSIaweKSIMKVYQCICRKGDNEELLLLCDGCDKGCHTYCHRPKITIPDGDWFCPACIA  
KASGQTLKIKKLHVKGKKTNESKKGKKVTLTGDTEDEDSASTSSSLKRGNDLKKRKMEE  
NTSINLSKQESFTSVKKPKRDDSKDLALCSMILTEMETHEDAWPFLLPVNLKLVPGYKKV



IKKPMDFSTIREKLSSGQYPNLETFALDVRLVFDNCETFNEDDSDIGRAGHNMRKYFEKK  
WTDTFKVS

>sp|Q96PG8|BBC3B\_HUMAN Bcl-2-binding component 3 OS=Homo sapiens GN=BBC3 PE=2 SV=2

MKFGMGSQAQPCQVPRAASTTWPCQICGPRERHGPRTPGGQLPGARRGPGRRPAPLP  
ARPPGALGSVLRPLRARPGCRPRRPHAARCLPLRPHRPTRRHRRPGGFPLAWGSPQPAP  
RPAPGRSSALALAGGAAPGVARAQRPGSGGRSHPGGPGSPRGGTVGPGDRGPAAADGG  
RPQRTVRAAETRGAAPPLTLEGVPVQSHHGTALQGPQSPRDGAQLGACTRPVDVRDS  
GGRPLPPDPTLASAGDFLCTM

>sp|Q3B7T3|BEAN1\_HUMAN Protein BEAN1 OS=Homo sapiens GN=BEAN1 PE=2 SV=2

MSFKRPCPLARYNRTSYFYPTFSESSEHSHLLVSPVLVASAVIGVVIILSCITIIVGSIR  
RDRQARLQRHRHRHHHHHHHHRRRRHREYEHGYVDEHTYSRSSRRMRACSSSEDW  
PPPLDISSDGDVDATVLRRELYPDSPPGYEECVGPGATQLYVPTDAPPYSLTDSCTLDG  
TSDSGSGHSPGRHQQEQRTPAQGGLHTVSMDTLPPYEAVCGAGPPSGLLPLPGDPGPRG  
SQGSPTPTRAPASGPERIV

>sp|Q15582|BGH3\_HUMAN Transforming growth factor-beta-induced protein ig-h3 OS=Homo sapiens GN=TGFB1 PE=1 SV=1

MALFVRLALALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNCVAVQKVIQTNRK  
YFTNCKQWYQRKICGKSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVVGSTTTQL  
YTDRTEKLRPMEGPGSFTIFAPSNEAWASLPAEVLDSLVSNNIELLNALRYHMGRRV  
LTDELKHGMLTSMYQNSNIQIHYPNGIVTVNCARLLKADHHATNGVVHLIDKVIISTIT  
NNIQIIEIEDTFETLRAAVAASGLNTMLEGNGQYTLLAPTNEAFEKIPSETLNRI LGDP  
EALRDLLNNHILKSAMCAEAI VAGLSVETLEGTLEVGCSGDMLTINGKAIISNKDILAT  
NGVIHYIDELLIPDSAKTLFELAAESDVSTAIDLFRQAGLGNHLSGSERLTLLAPLNSVF  
KDGTPPIDAHRNLLRNHI IKDQLASKYLYHGQTLETLGKKLRVVFYRNSLCIENSCIA  
AHDKRGYGTFLTMDRVLTTPMGTVMDVLKGDNRFSMLVAATQSAGLTETLNREGVYTVF  
APTNEAFRALPPRERSRLGDAKELANILKYHIGDEILVSGGIGALVRLKSLQGDKLEVS  
LKNNVSVNKEPVAEPDIMATNGVVHVITNVLQPPANRPQERGDELADSALEIFKQASAF  
SRASQRSVRLAPVYQKLLERMKH

>sp|Q6UXY1|BI2L2\_HUMAN Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 2 OS=Homo sapiens GN=BAIAP2L2 PE=1 SV=1

MAPEMDQFYRSTMAIYKSIMEQNPALENLVYLGNNYLRAFHALSEAAEVYFSAIQKIGE  
RALQSPTSQILGEILVQMSDQTRHLNSDLEV VVQTFHGGLLQHMEKNTKLDMQFIKDSRQ  
HYELEYRHRAANLEKCMSELWRMERKRDKNVREMKESVNRLHAQMQAFVSESQRAAELEE  
KRRYRFLAEKHLNLSNTFLQFFGRARGMLQNRVLLWKEQSEASRSPSRAHSPGLLGPALG  
PPYPSGRLTPTCLDMPRPLGEFSSPRSRHSGSYGTEPDARPASQLEPDRRSLPRTPSA  
SSLYSGSAQSSRSNSFGERPGGGGARRVRALVSHSEGANHTLLRFSAGDVVEVLVPEAQ  
NGWLYGKLEGSSASGWFEAYVKALEEGPVNPMTPVTPMTSMTSMSPMTPMNPGNELPSR  
SYPLRGSHSLDDLLDRPGNSIAPSEYWDGQSRSTPSRVPSRAPSPAPPPPLSSRRSSMG  
STAVATDVKKLMSSEQYPPQELFPRGTNPFATVKLRPTITNDRSAPLIR

>sp|Q9H694|BICC1\_HUMAN Protein bicaudal C homolog 1 OS=Homo sapiens GN=BICC1 PE=1 SV=2

MAAQGEPGYLAAQSDPGNSERSTDSPVPGSEDDL VAGATLHSPWSEERFRVDRKKLEA  
MLQAAAEKGKRGEDFFQKIMEETNTQIAWPSKLKIGAKSKKDPHIKVS GKKEVDKEAKE  
MIMSVLDTKSNRVTLMKDVSHTEHSHVIGKGGNNIKVMEETGCHIHFPSNRNNQAEKS  
NQVSIAGQPAGVESARVRIRELLPLVLMFELPIAGILQVPDPNPSPIQHISQTYNISVS

FKQRSRMYGATVIVRGSQNNTSAVKEGTAMLEHLAGSLASAIPVSTQLDIAAQHHLFMM  
GRNGSNIKHIMQRTGAQIHFPDPSNPQKKSTVYLQGTIESVCLARQYLMGCLPLVLMFDM  
KEEIEVDPQFIAQLMEQLDVFISIKPKPKPSKSVIVKSVERNALNMYEARKCLLGLESS  
GVTIATSPSPASCPAGLACPSLDILASAGLGLTGLGLLGPPTLSLNTSTTPNSLLNALNS  
SVSPLQSPSSGTPSPTLWAPPLANTSSATGFSaiphlMIPSTAQATLTNILLSGVPTYGH  
TAPSPPPGLTPVDVHINSMQTEGKKISAALNGHAQSPDIKYGAISTSSLGEKVLSANHGD  
PSIQTSGSEQTSPKSSPTEGCNDAFVEVGMPRSPSHSGNAGDLKQMMCPKSVSCAKRQTV  
ELLQGTKNSHLHSTDRLSDPELSATESPLADKKAPGSERAAERAAAAQQNSERAHLAPR  
SSYVNMQAFDYEQKKLLATKAMLKKPVVTEVRTPTNTWSGLGFSKSMAPAETIKELRRANH  
VSYKPTMTTTYEGSSMSLSRSNSREHLGGGSESDNWRDRNGIGPGSHSEFAASIGSPKRK  
QNKSTEHYLSSSNYMDCISSLTGSNGCNLNSFKGSDLPelfSKLGLGKYTDVFQQQEID  
LQTFLTLDQDLKELGITTFGARRKMLLAISELNKNRRKLFESPnARTSFLEGGASGRLP  
RQYHSDIASVSGRW

>sp|Q13075|BIRC1\_HUMAN Baculoviral IAP repeat-containing protein 1 OS=Homo sapiens  
GN=NAIP PE=1 SV=3

MATQQKASDERISQFDHNLPELSALLGLDAVQLAKELEEEEEKERAKMQKGYNSQMRSE  
AKRLKTFVITYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPIEDHKRF  
HPDCGFLLNKDVGNIAKYDIRVKNLKSRLRGGMRYQEEEARLASFRNWPFYVQGISPVCV  
LSEAGFVFTGKQDTVQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKKSSEEITQYI  
QSYKGFVDITGEHFVNSWVQRELPMASAYCNDISFAYEELRLDSFKDWPRESAVGVAALA  
KAGLFYTGIKDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPNCPFLQNMKSSAEVTPDLQS  
RGELCELLETTSESNLEDISIAVGPIVPEMAQGEAQWFQEAKNLNEQLRAAYTSASFRHMS  
LLDISSDLATDHLLGCDLSIASKHISKPVQEPLVLPEVFGNLNSVMCVEGEAGSGKTVLL  
KKIAFLWASGCCPLNRFQLVFYLSLSTRPDEGLASIIICDQLEKEGSVTEMCVRNIIQ  
QLKNQVFLDDDYKEICSI PQVIGKLIQKNHLSRTCLLIIVRTNRARDIRRYLETILEIK  
AFPFYNTVCILRKLFSHNMTRLRKFMVYFGKNQSLQKIQTPLFVAAICAHWFQYPFDPS  
FDDVAVFKSYMERLSLRNKATAEILKATVSSCGELALKGFFSCCFEFNDDDLAEAGVDED  
EDLTMCLMSKFtaqRLRPfYRFLSPAQEFLAGMRLIELLSDRQEHQDLGLYHLKQINS  
PMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLVDNKESENISENDDYLKHQPEISLQ  
MQLLRGLWQICPQAYFSMVSEHLLVLALKTAYQSNtVAACSPFVLQFLQGRTLTlGALNL  
QYFFDHPELSLLRSIHFPiRGNKTSprahfSVLETcFDKSQVPTIDQDYASAFEPmNEW  
ERNLAEKEDNVKSYMDMQRRASPDlSTGYWKLSPKQYIPCLEVDVNDIDVVGQDMLEIL  
MTVFSASQRIELHLNHSRGFIESIRPALELSKASVTKCSISKLELSAAEQELLLTLPSLE  
SLEVSGTIQSQDQIFPNLDKfLCLKELSVdLEGNINVFSVIPEEFPNFHHMEKLLIqISA  
EYDPSKLVKLIQNSPNLHVfHLKCNFFSDFGSLMTMLVSCKKLTEIKfSDSFFQAVPFVA  
SLPNFISLKILNLEGQQFPDEETSEKFAYILGSLSNLEELILPTGDGIYrVAKLIiQQCQ  
QLHCLRVLSFFKTLNDDSVVEIAKVAISGGFQKLENLKLsinHKITEEGYRNFFQALDNM  
PNLQELDISRHfTECIKAQATTvKSLSQCVLRLPRLIRLNMLSWLLDADDIALLNVmKER  
HPQSKYLTILQKWILPFSPiIQK

>sp|Q96P09|BIRC8\_HUMAN Baculoviral IAP repeat-containing protein 8 OS=Homo sapiens  
GN=BIRC8 PE=1 SV=2

MTGYEARLITFGTMYSVNKEQLARAGFYAIGQEDKVQCfHCGGLANWKPKEDPWEQHA  
KWYPGCKYLLEEKGHEYINNIHLTRSLEGALVQTTKKTPSLTKRISDTIFPNPMLQEAIr  
MGFDFKDVKKIMEERIQTSGSNYKTLEVLVADLVSAQKDTTENELNQTSLQREISPEEPL

RRLQEEKLCKICMDRHIAVVFIPCGHLVTCKQCAEAVDRCPMCSAVIDFKQRVFMS

>sp|Q3C1V8|BSH\_HUMAN Brain-specific homeobox protein homolog OS=Homo sapiens GN=BSX PE=2 SV=2

MNLNFTSPLHPASSQRPTSFFIEDILLHKPKPLREVAPDHFASSLASRVPLLDYGYPLMP  
TPTLLAPHAHHPLHKGDHHHPYFLTTSMPVPALFPHQHAELPGKHCRRRKARTVFSDS  
QLSGLEKRFEIQRYLSTPERVELATALSLSETQVKTFQNRMRMKHKQLRKSQDEPKAPD  
GPESPEGSPRGSEATAAEARLSLPAGPFVLTEPEDEVDIGDEGELGSGPHVL

>sp|Q075Z2|BSPH1\_HUMAN Binder of sperm protein homolog 1 OS=Homo sapiens GN=BSPH1 PE=2 SV=1

MGSLMLLFVETTRNSSACIFPVILNELSSTVETITHFPEVTDGECVFPFHYKNGTYDCI  
KSKARHKWCSLNKTYEGYWKFCSAEDFANCVFPFWYRRLIYWECTDDGEAFGKKWCSLTK  
NFNKDRIWKYCE

>sp|Q10588|BST1\_HUMAN ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2 OS=Homo sapiens GN=BST1 PE=1 SV=2

MAAQGCAASRLQLLLQLLLLLLLAAGGARARWRGEGTSAHLRDIPLGRCAEYRALLSP  
EQRNKNCTAIWEAFKVALDKDPCSVLPDYDLFINLSRHSIPRDKSLFWENSHLLVNSFA  
DNTRRFMPLSDVLYGRVADFLSWCRQKNDSGLDYQSCPTSEDCENNPVDSFWKRASIYQS  
KDSSGVIVMLNGSEPTGAYPIKGFADYEIPNLQKEKITRIEIWVMHEIGGPNVESCGE  
GSMKVLEKRLKDMGFQYSCINDYRPVKLLQCVDHSTHPDCALKSAAAATQRKAPSLYTEQ  
RAGLIIPFLVLASRTQL

>sp|Q10589|BST2\_HUMAN Bone marrow stromal antigen 2 OS=Homo sapiens GN=BST2 PE=1 SV=1

MASTSYDYCRVPMEDGDKRCKLLLGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAV  
MECRNVTHLLQQLTEAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGEL  
TTLNHKLQDASAEVERLRRENQVLSVRIADKKYYPSSQDSSSAAAPQLLIVLLGLSALLQ

>sp|P78410|BT3A2\_HUMAN Butyrophilin subfamily 3 member A2 OS=Homo sapiens GN=BTN3A2 PE=1 SV=2

MKMASSLAFLLLNFHVSLLLVQLLTPCSAQFSVLGSPGILAMVGEDADLPCHLFPTMSA  
ETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASD  
SGKYLCYFQDGFYEKALVELKVAALGSNLHVEVKGYEDGGIHLECRSTGWYPQPQIQWS  
NAKGENIPAVEAPVADGVGLYEVAASVIMRGGSGEGVSCIIRNSLLGLEKTASISIAADP  
FFRSAQPWIAALAGTLPILLLLLAGASYFLWRQKEITALSSEIESEQEMKEMGYAATER  
EISLRESLQEELKRKKIQYLTRGESSSDTNKSA

>sp|A8MVZ5|BTNL1\_HUMAN Butyrophilin-like protein 10 OS=Homo sapiens GN=BTNL10 PE=5 SV=2

MAVTCDEAFSLICFVTLVFLQLPLASIWKADFDTGPHAPILAMAGGHVELQCQLFPNI  
SAEDMELRWYRCQPSLAVHMERGMMDGEQKWYRGRITFMSDHVARGKAMVRSHRVT  
FDNRTYCCRFKDGKVFGEATVQVQVAGLREPRIQVTDQDGVRAECTSAGCFPKSWVER  
RDFRGQARPAVTNLSASATTRLWAVASLTLWDRAVEGLSCSISSPLLERRKVAESHL  
ATFSRSSQFTAWKAALPLILVAMGLVIAGGICIFWKRQREKNKASLEEERE

>sp|O43683|BUB1\_HUMAN Mitotic checkpoint serine/threonine-protein kinase BUB1 OS=Homo sapiens GN=BUB1 PE=1 SV=1

MDTPENVLQMLEAHMQSYKGNPLGEWERYIQWVEENFPENKEYLITLLEHLMKEFLDKK  
KYHNDPRFISYCLKFAEYNSDLHQFFFLYNHGIGTLSSPLYIAWAGHLEAQGELQHASA  
VLQRGIQNQAEPREFLQQYRLFQTRLTETHLPAQARTSEPLHNQVLNQMITSKSNPGN  
NMACISKNQSGELSGVISSACDKESNMERRVITISKSEYSVHSSLASKVDVEQVVMYCKE

KLIRGESEFSFEELRAQKYNQRRKHEQWVNEDRHYMKRKEANAFEEQLLKQKMDLHKKL  
HQVVETSHEDLPASQERSEVNPARGPSVGSQQELRAPCLPVTYQQTPVNMEKNPREAPP  
VVPPLANAISAALVSPATSQSIAPPVPLKAQTVTDSMFAVASKDAGCVNKSSTHEFKPQSG  
AEIKEGCETHKVANTSSFHTTNTSLGMVQATPSKVQSPSTVHTKEALGFIMNMFQAPTL  
PDISDDKDEWQSLDQNEFAEAQFQKNVRSSGAWGVNKI ISSLSAFHVFEDGNKENYGL  
PQPKNKPTGARTFGERSVSRPLSPKPEEVPHAEFLDDSTVWGIRCNTLAPSPKSPGDF  
TSAAQLASTPFHKL PVESVHILEDKENVVAQCTQATLDSCEENMVVPSRDGKFSPIQEK  
SPKQALSSHMYASALLRLSQPAAGGVLTC E AELGVEACRLTDTDA AIAEDPPDAIAGLQA  
EWMQMSSLGTV DAPNFIVGNP WDDKLI FKL LSGLSKPVSSYPNTFEWQCKLPAIKPKTEF  
QLGSKLVVYVHLLGEGAFQVYEATQGD LND AKNKQKFVLKVQKPANPWEFYIGTQLMER  
LKPSMQHMFMKFYS AHLFQNGSVLVGELYSYGTLLNAINLYKNTPEKVPQGLVISFAMR  
MLYMIEQVHDCEI IHGDIKPDNFI L GNGFLEQDDEDDL SAGLALIDL GQSIDMKLFPKGT  
IFTAKCETSGFQCVEMLSNKPWNYQIDYFGVAATVYCMLFGTYMKVKNEGGECKPEGLFR  
RLPHLDMWNEFFHVMLNIPDCHHLP SLDLLRQKLKQVFFQHYTNKIRALRNRLIVL LLEC  
KRSRK

>sp|Q2TBE0|C19L2\_HUMAN CWF19-like protein 2 OS=Homo sapiens GN=CWF19L2 PE=1 SV=4

MATSM A A A SGRFESA KSI EERKEQTRNARAEVL RQAKANFEKEERRKELKRLRGEDTWML  
PDVNERIEQFSQEHSVKKKKKDKH SKKAKKEKKKSKKQKY EKNNESSDSSSSSEDEWV  
EAVPSQTPDKEKAWVKDEKSGKDDTQI I KRDEWMTVDFMSVKT VSSSLKAEKETMRKI  
EQEKNQALEQSKLMERELNPYWKDGGTGLPPEDCSVSSITKVS VVEDGGLSWLRKSYLRM  
KEQAEKQSRNFEDIVAERYGSMEIFQSKLEDAEKA A STKEDYRRERWRKPTYSDKAQNCQ  
ESRESDLVKYGNSSRDYATDTAKNSNNEKF IGDEKDKRPGSLET CRRESNPRQNQEF S  
FGNLR AKFLRPSDDEELSFHSGRKFEP LSSSSALVAQGS L CSGFRKPTKNSEERLTSWS  
RSDGRGDKKHSNQK PSETSTDEHQHPEDPREKSQDEVL RDP PKEHLRDTKSTFAGSP  
ERESIHILSVDEKNKLGAKI IKAEMMGNMELAEQLKVQLEKANKFKETITQIPKSGVEN  
EDQQE VILVRTDQSGRVWPVNTPGKSLESQGGRRKRQMVSTHEERERVRYFHDDDNLSLN  
DLVKNEKMGT AENQNKLFMRMASKFMGKTGDY YTLDDMFVSKAAERERLGEEENQRKK  
AIAEHRSLAAQMEKCLYCFDSSQFPKHLIVAIGVKVYLCLPNVRSLTEGHCLIVPLQHHR  
AATLLDEDIWE EI QMFRKSLVKMFEDKGLDCIFLETNMSMKKQYHMYECIPLPKEVGDM  
APIYFKKAIMESDEEWSMNKKLIDLSSKDIRKSVPRGLPYFSVDFGLHGGFAHVIEDQHK  
FPHYFGKEIIGGMLDIEPRLWRKG IRESFEDQRKKALQFAQWWKPYDFTKSKNY

>sp|P02746|C1QB\_HUMAN Complement C1q subcomponent subunit B OS=Homo sapiens GN=C1QB PE=1 SV=3

MMMIPWGSIPVLM LLLLLGLIDISQAQLSCTGPPAIPGIPGIPGTPGPDGQPGTPGIKG  
EKGLPLAGDHGEFGEKGDPIPGNPGKVGPKGPMGPKGGPGAPGAPGPKGESGDYKATQ  
KIAFSATRTINVPLRRDQTIRFDHVI TNMNNYEPRSGKFTCKVPGLYF TYHASSRGNL  
CVNLMRGRERAQKV VTFCDYAYNTFQVTTGGMVLKLEQGENVFLQATDKNSLLGMEGANS  
IFSGFLLFPDMEA

>sp|Q6P1N0|C2D1A\_HUMAN Coiled-coil and C2 domain-containing protein 1A OS=Homo sapiens GN=CC2D1A PE=1 SV=1

MHKRKGPPGPPGRGAAAARQLGLLV DLS PDGLMIPEDGANDEE L AEF LALVGGQPPALE  
KLKGKGPLPMEAIEKMASLCMRDPDEDEE EGTDEDDLEADDLLAELNEVLGEEQKASET  
PPPVAQPKPEAPHPLETTLQERLALYQTAIESARQAGDSAKMRRYDRGLKTLENLLASI  
RKGNAIDEADIPPPVAIGKPASTPTYS PAPTQPAPRIAS APEPRVTLEGPSATAPASSP

GLAKPQMPPGPCSPGPLAQLQSRQRDYKLAALHAKQQGDTTAAARHFRVAKSFDAVLEAL  
SRGEPVDLSCLPPPPDQLPPDPPSPSPQPTPATAPSTTEVPPPPRTLLEALEQRMERYQ  
VAAQAQSKSGDQRKARMHERIVKQYQDAIRAHKAGRAVDVAELPVPPGFPPIQGLEATKP  
TQQSLVGVLETAMKLANQDEGPEDEEDEVKKQNSPVAPTAQPKAPPSRTPQSGSAPTAK  
APPKATSTRAQQQLAFLEGRKKQLLQAALRAKQKNDVEGAKMHLRQAKGLEPMLEASRNG  
LPVDITKVPPAPVKNDDFALVQRPGLSQEAARRYGELTKLIRQQHEMCLNHSNQFTQL  
GNITETTKFEKLAEDCKRSMIDLKQAFVRGLPTPTARFEQRTFSVIKIFPDLSSNDMLLF  
IVKGINLPTPPGLSPGDLDFVFRFDFPYPNVEEAQKDKTSVIKNTDSPEFKEQFKLCINR  
SHRGFRRAIQTKGIKFEVVHKGGLFKTDRVLGTAQLKDALEIACEVREILEVLDGRRPT  
GGRLEVVMVRIREPLTAQQLETTTERWLVIDPVAAPTQVAGPKGKAPVPAPARESGNR  
SARPLHSLSVLAFDQERLERKILALRQARRPVPPEVAQQYQDIMQRSQWQRAQLEQGGVG  
IRREYAAQLERQLQFYTEAARRLGNDGSRDAAKEALYRRNLVESELQRLRR

>sp|Q16581|C3AR\_HUMAN C3a anaphylatoxin chemotactic receptor OS=Homo sapiens GN=C3AR1  
PE=1 SV=2

MASFAETNSTDLLSQPWNEPPVILSMVILSLTFLGLPGNGLVLWVAGLKMQRVTNTIW  
FLHLTLADLLCCLSLPFSLAHLALQGQWPYGRFLCKLIPSIIVLNMFASVFLLTALISLDR  
CLVVFKEPIWCQNHNRNVGMACSIICGCIWVAVFMCIPVFVYREIFTDNHNRCGYKFLSS  
SLDYPDFYGDPLENRSLENIVPPGEMNDRDPSSFQTNHPWTVPVTFQPTFQRPSAD  
SLPRGSARLTSQNLVSNVFKPADVVSPKIPSGFPIEDHETSPLDNSDAFLSTHLKLFPSA  
SSNSFYSELPPQGFQDYNNLGQFTDDQVPTPLVAITITRLVVGFLLPVIMIACTSFIV  
FRMQRGRFAKSQSKTRFVAVVVAVFLVCWTPYHIFGVLSLLTDPETPLGKTLMSWDHVC  
IALASANSFCNPFYALLGKDFRKKARQSIQGLEAAAFSEELTRSTHCPNNVISERNST  
TV

>sp|Q9NRR8|C42S1\_HUMAN CDC42 small effector protein 1 OS=Homo sapiens GN=CDC42SE1 PE=1  
SV=1

MSEFWHLGCCVVEKPQPKKKRRRIDRTMIGEPNMFVHLTHIGSGEMGAGDGLAMTGAVQ  
EQMRSGNDRPWSNSRGL

>sp|Q99643|C560\_HUMAN Succinate dehydrogenase cytochrome b560 subunit, mitochondrial  
OS=Homo sapiens GN=SDHC PE=1 SV=1

MAALLLRHVGRHCLRAHFSPQLCIRNAVPLGTTAKEEMERFWNKNIGSNRPLSPHITIYS  
WSLPMAMSIHRGTGIALSAGVSLFGMSALLPGNFESYLELVKSLCLGPALHTAKFAL  
VFPLMYHTWNGIRHLMWDLGKGLKIPQLYQSGVVVLVLTVLSSMGLAAM

>sp|O14503|BHE40\_HUMAN Class E basic helix-loop-helix protein 40 OS=Homo sapiens  
GN=BHLHE40 PE=1 SV=1

MERIPSAQPPAPCLPKAPGLEHGDLPGMYPAHMYQVYKSRRGIKRSSESKETYKLPHRLI  
EKKRRDRINECIAQLKDLLPEHLKLTTLGHLEKAVVLELTLKHVKALTNLIDQQQKIIA  
LQSGLQAGELSGRNVETGQEMFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVVS  
ELLQGGTSRKPSDPAPKVMDFKEKPSSPAKGSEPGKNCVPVIQRTFAHSSGEQSGSDTD  
TDSGYGGESEKGLRSEQPCFKSDHGRRFTMGERIGAIIKQEESEPPTKKNRMLSDDEGH  
FTSSDLISSPFLGPHPHQPPFCLPFYLIPPSATAYLPMLEKCWYPTSPVLYPGLNASAA  
ALSSFMNPDKISAPLLMPQRLPSPLPAHPSVDSSVLLQALKPIPPLNLETKD

>sp|Q6PI77|BHLH9\_HUMAN Protein BHLHb9 OS=Homo sapiens GN=BHLHB9 PE=2 SV=1

MAGTKNKTRAQAKTEKKAIIQAKAGAEREATGVVRPVAKTRAKAKAKTGSKTDAVEMKA  
VSKNKVVAETKEGALSEPCTLGKAMGDFTPKAGNESTSSTCKNEAGTDAWFWAGEEATIN

SWFWNGEEAGNSFSTKNDKPEIGAQVCAEELEPAAGADCKPRSGAEEEEENVIGNWFWE  
GDDTSFDPNPKPVSRIKVPVYEINEKNRPKDWSEVTIWPNAVTPAVLGFRSQAPSE  
ASPPSYIVLASAEENACSLPVATACRPSRNRTRSCSQPIPECRFSDSDPCIQTIDEIRRQIR  
IREVNGIKPFACPKMECYMDEEFKLVSLKSTTDPLIHKARIAMGVHNVHPFAQEF  
INEVGVVTLIESLLSFSPPEMRKKTIVITLNPPSGDERQRKIELHVHMKETMSFPLNSP  
GQQSGLKILGQLTTDFVHHYIVANYFSELFHLLSSGNCKTRNLVLKLLNMSSENPTAARD  
MINMKALAALKLIFNQKEAKANLVSGVAIFINIKEHIRKGSIVVVDHLSYNTLMAIFREV  
KEIIETM

>sp|Q8TD16|BICD2\_HUMAN Protein bicaudal D homolog 2 OS=Homo sapiens GN=BICD2 PE=1 SV=1

MSAPSEEEYARLVMEAQPEWLRAEVKRLSHELAETTREKIQAAYGLAVLEEKHQLKLQ  
FEELEVDEYAIRSEMEQLKEAFGGAHTNHKKVAADGESREESLIQESASKEQYYVRKVL  
LQTELKQLRNVLTNTQSENERLASVAQELKEINQNEIQRGRLRDDIKEYKFREARLLQD  
YSELEENISLQKQVSVLRQNQVEFEGLKHEIKRLEETEYLNLSQLEDAIRLKEISERQL  
EEALETLKTEREQKNSLRKELSHYMSINDSFYTSHLHVS LDGLKFSDDAEPNNDAAELV  
NGFEHGLAKLPLDNTSTPKKEGLAPSPSLVSDLLSELNISEIQKLKQQLMQMEREKA  
GLLATLQDTQKQLEHTRGSLSEQQEKVTRLTENLSALRRLQASKERQTALDNEKDRDSHE  
DGDYYEVDINGPEILACKYHVAVAEAGELREQLKALRSTHEAREAQAHEEKGRYEAEGQA  
LTEKVSLEKASRQDRELLARLEKELKKVSDVAGETQGSLSVAQDELVTSEELANLYHH  
VCMCNNETPNRVMLDYYREGQGGAGRTSPGGRTSPEARRRSPILLPKGLLAPEAGRADG  
GTGDSSPSPGSSLPSPSDPRREPMMNIYNL IAIIRDQIKHLQAAVDRTELSRQRIASQE  
LGPVADKDKEALMEEILKLKSLSTKREQITTLRTVLKANKQTAEVALANLKSKEYENKA  
MVTETMMKLRLNELKALKEDAATFSSLRAMFATRCDEYITQLDEMQRQLAAAEDEKKTLS  
LLRMAIQKQLALTQRLELLELDHEQTRRGRAKAAPKTKPATPSL

>sp|Q6ZP65|BICL1\_HUMAN BICD family-like cargo adapter 1 OS=Homo sapiens GN=BICL1 PE=2  
SV=2

MSAFCLGLVGRASAPAEPSACCMELPAAAGDAVRSPAAAAALIFPGSGELELALAEEL  
ALLAAGERPSDPGEHPQAEPGSLAEGAGPQPPPSQDPELLSVIRQEKDLVLAARLGKAL  
LERNQDMSRQYEQMHKELTDKLEHLEQEKHELRRRFENREGEWEGRVSELESDVKQLQDE  
LERQQIHLREADREKSRAVQELSEQNQRLDQLSRASEVERQLSMQVHALREDFREKNSS  
TNQHIIRLESQAIEKMLSDRKRELEHRLSATLEENDLLQGTVEELQDRVLILERQGHDK  
DLQLHQSQLQLQEVRLSCRQLQVKVEELTEERSLQSSAATSTSLSEIEQSMEAELEQE  
REQLRLQLWEAYCQVRYLCSHLRGNSADSASTDSSMDESSETSSAKDVPAGSLRTALN  
ELKRLIQSIVDGMEPTVTLLSVEMTALKEERDRLRVTSDEKPEQLQKAIRDRDEAIK  
KNAVELELAKCRMDMMSLSQLLDAIQKLNLSQQLEAWQDDMRVIDRQLMDTHLKERS  
QPAAALCRGHSAGRGDEPSIAEGKRLFSFRKI

>sp|Q13323|BIK\_HUMAN Bcl-2-interacting killer OS=Homo sapiens GN=BIK PE=1 SV=2

MSEVRPLSRDILMETLLYEQLLEPPTMEVLGMTDSEEDLDPMEDFDSLECMEGSDALALR  
LACIGDEMDSLRAPRLAQLSEVAMHSLGLAFIYDQTEDIRDVLRFSMDGFTTLKENIMR  
FWRSPNPGSWVSCEQVLLALLLLALLPLLSGGLHLLK

>sp|Q9NQY0|BIN3\_HUMAN Bridging integrator 3 OS=Homo sapiens GN=BIN3 PE=1 SV=1

MSWIPFKIGQPKKQIVPKTVERDFEREYGKLQQLQEEQTRRLQKDMKKSTDADLAMSKSAV  
KISLDLLSNPLCEQDQDLLNMVTALDTAMKRMDAFNQEKVNQIQKTVIEPLKKFGSVFPS  
LNMAVKRREQALQDYRRLQAKVEKYEKEKTGPVLAKLHQAREELRPVREDFEAKNRQLL  
EEMPRFYGSRLDYFQPSFESLIRAQVVYSEMCHKIFGDLSHQLDQPGHSDEQRERENEAK

LSELRALSI VADD

>sp|Q13867|BLMH\_HUMAN Bleomycin hydrolase OS=Homo sapiens GN=BLMH PE=1 SV=1

MSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTHDLLDICLKRA TVQRAQHVFQHAVPQE  
GKPITNQKSSGR CWIF SCLNMRLPFMKKL NIEEFESQSYLFFWDKVERCYFFLSAFVD  
TAQRKEPEDGRLVQFLLMNPANDGGQWDM LVNIVEKYGVIPKKCFPESYTTEATRRMNDI  
LNHKMREFCIRLRLNVHSGATKGEISATQDVM MEEIFRVVCICLGNPPETFTWEYRDKDK  
NYQKIGPITPLEFYREHV KPLFNMEDKICLVNDPRPQHKYNKLYTVEYLSNMVGGRTLY  
NNQPIDFLKKMVAASIKDGEAVWFGCDVGKHFNSKLGLSDM NLYDHEL VFGVSLKNMKA  
ERLTFGESLMTHAMTFTAVSEKDDQDGAFTKWRVENS WGEDHGHKG YLCMTDEWFSEYVY  
EVVVD RKHVP EEVLAVLEQEP IILPAWDPMGALAE

>sp|Q8WV28|BLNK\_HUMAN B-cell linker protein OS=Homo sapiens GN=BLNK PE=1 SV=2

MDKLNKITVPASQKLRLQLQKMVHD IKNNEGGIMNKIKKLKVKAPPSVPRRDYASESPADE  
EEQWSDDFDSYENPDEHSDSEMYVMPAEENADDSY EPPPVEQETRPVHPALPFARGEYI  
DNRSSQRHSPPFSKLTLPSPSWPSEKARLTSTLPALTALQKPQVPPKPKG LLEDEADYV  
PVEDNDENYIHTPESSPPPEKAPMVNRSTKPN SSTPASPPGTASGRNSGAWETKSPPPA  
APSPLPRAGKKPTTLPKTTPVASQQNASSVCEEKPIPAERHRGSSHRQEAVQSPVFPPAQ  
KQIHQKPIPLPRFTEGGNPTVDGPLPSFSSNSTISEQEAGVLCKP WYAGACDRKSAAEAL  
HRSNKDGSFLIRKSSGHDSKQPYTLVVF FNKR VYNIPVR FIEATKQYALGRKKNGEEYFG  
SVAEII RNHQHSPLVLIDSQNNTKDSTR LKYAVKVS

>sp|Q8N8U9|BMPER\_HUMAN BMP-binding endothelial regulator protein OS=Homo sapiens GN=BMPER  
PE=1 SV=3

MLWFSGVGALAEYRCRRSPGITCCV LLLNCSGVPM SLASSFLTGSVAKCENE GEVLQIP  
FITDNPCIMCVCLNKEVTCKREKCPVLSRDCALAIKRGACCEQCKGCTYEGNTYNS SFK  
WQSPAEP CVLRQCQEGVVTESGVR CVVHCKNPLEHLGMCCPTCPGCVFEGVQYQEGEEFQ  
PEGSKCTKCSCTGGRTQCVREVCPILSCPQHLSHIPPGQCCPKCLGQRKVFDLPFGSCLF  
RSDVYDNGSSFLYDNCTACTCRDSTVVCKRKCSHPGGCDQGGEGCCEECLLRVP PEDIKV  
CKFGNKIFQDGEMWSSINCTICACVKGRTECRNKQCIP ISSCPQGKILNRKGCCPICTEK  
PGVCTVFGDPHYNTFDGRTFN FQTCQYVLTKDCSSPASPFQVLVKNDARRTRSF S WTKS  
VELVLGESRVSLQQH LTVRWNGSRIALPCRA PHFHIDLDGYLLKVTTKAGLEISWDGDSF  
VEVMAAPHLKGKLCGLCGNYNGHKRDDLIGGDGNFKFDVDDFAESWRVESNEFCNRPQRK  
PVPELCQGT VKVKLRAHRECQKLKSWEFQTCHSTVDYATFYRSCVTDMCECPVHKNCYCE  
SFLAYTRACQREGIKVHWPQQNCAATQCKHGAVYDTCGPGCIKTCDNWNEIGPCNKPCV  
AGCHCPANLV LHKGRCIKPVLCPQR

>sp|O00238|BMR1B\_HUMAN Bone morphogenetic protein receptor type-1B OS=Homo sapiens  
GN=BMPR1B PE=1 SV=1

MLLSAGKLN VGTKKEDGESTAPTRPKVL RCKCHHCPEDSVNNICSTDGYCFTMIEED  
DSGLPVVTSGLGLEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPLKNRDFVD  
GPIHHRALLISVTVCSLLLVLII LFCYFRYKRQETRPRYSIGLEQDETYIPPGESLRDLI  
EQSQSSGSGSGLPLLVRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFFTTEEAS  
WFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDLKSTTLDAKS  
MLKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVKFISD  
TNEVDIPPNTRVGT KRYMPPEVLDES LNRNHFQSYIMADMY SFG LILWEVARRCVSGGIV  
EEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFPNRWSSDECLRQMGKLMTECWAHPAS  
RLTALRVKKT LAKMSESQDIKL

>sp|Q01954|BNC1\_HUMAN Zinc finger protein basonuclein-1 OS=Homo sapiens GN=BNC1 PE=1 SV=2

MRRRPPSRGGRGAARARETRRQPRHRSGRRMAEAIISCTLNCSCQSFKPGKINHRQCDQCK  
HGWVAHALSKLRIPPMYPTSQVEIVQSNVFDISSMLYGTQAIPVRLKILLDRFSLVK  
QDEVLQILHALDWTLQDIYRGVYLDASGKVLHDHWSIMTSEEEVATLQQFLRFGETKSIV  
ELMAIQEKEEQSIIIPPSTANVDIRAFIESCSHRSSSLPTVPDKGNPSSIHPFENLISNM  
TFMLPFQFFNPLPALIGSLPEQYMLEQGHQSDQDPKQEVHGFDPDSSFLTSSSTPFQVE  
KDQCLNCPDAITKKEDSTHLSDDSSYNIVTKFERTQLSPEAKVKPERNSLGTKKGRVFCT  
ACEKTFYDKGTLKIHYNVHLKIKHKCTIEGCNMVFSSLSRNRHSANPNRLHMPMNRN  
NRDKDLRNSLNLASSENKCPGFTVTSPDCRPPPSYPGSGEDSKGQPAFPNIGQNGVLF  
NLKTVQPVLPFYRSPATPAEVANTPGILPSLPLSSSIPEQLISNEMPFDALPKKSRKS  
SMPIKIEKEAVEIANEKRHNLSDEDMPQLQVSEDEQEACSPQSHRVSEEQHVQSGGLGK  
PFPEGERPCHRESVIESSGAISQTPEQATHNSERETEQTALIMVPREVEDGGHEHYFTP  
GMPEQVPFSDYMELQQRLLAGGLFSALSNRGMAFPCLSDSKELEHVGGHALARQIEENRF  
QCDICKKTFKNACSVKIHKNMHVKEMHTCTVEGCNATFSPRRSRDRHSSNLNLHQKALS  
QEALSESSEDFRAAYLLKDVAKAYQDVAFTQQASQTSVIFKGTSRMGSLVYPITQVHSA  
SLESYNSGPLSEGTILDSTSSMKSESSSHSSWSDGVSEEGTVLMEDSDGNCEGSSLV  
PGEDEYPICVLMEKADQSLASLPSGLPITCHLCQKTYSNKGTFRAHYKTVHLRQLHKCKV  
PGCNTMFSSVRSRNRHSQNPNLHKSCLASSPSHLQ

>sp|O75936|BODG\_HUMAN Gamma-butyrobetaine dioxygenase OS=Homo sapiens GN=BBOX1 PE=1 SV=1

MACTIQKAEALDGAHLMQILWYDEEESLYPAVWLRDNCPCSDCYLDSAKARKLLVEALDV  
NIGIKGLIFDRKKVYITWPDEHYSEFQADWLKKRCFSKQARAKLQRELFPEQCQYWGSEL  
QLPTLDFEDVLRIDEHAYKWLSTLKKVGIVRLTGASDKPGEVSKLGKRMGFLYLTIFYGHT  
WQVQDKIDANNVAYTTGKLSFHTDYPALHHPGQVQLLHCIKQTVTGGDSEIVDGFNVQK  
LKKNNPQAFQILSSTFVDFTDIGVDYCDFSVQSKHKIIELDKGGQVVRINFNNATRDITF  
DVPVERVQPFYAALKEFVDMNSKESKFTFKMNP GDVITFDNWRLLHGRRSYEAGTEISR  
HLEGAYADWDVMSRLRILRQRVENG

>sp|Q9UMX3|BOK\_HUMAN Bcl-2-related ovarian killer protein OS=Homo sapiens GN=BOK PE=1 SV=1

MEVLRSSVFAAEIMDAFDRSPTDKELVAQAKALGREYVHARLLRAGLSWSAPERAAPVP  
GRLAEVCVALLRLGDELEMIRPSVYRNVARQLHISLQSEPVTDAFLAVAGHIFSAGITW  
GKVVSLEYAAGLAVDCVRQAQPMVHALVDCLGEFVRKTLATWLRRRGWTDVLCVVS  
TDPGLRSHWLVAALCSFGRFLKAAFFVLLPER

>sp|Q9H3K6|BOLA2\_HUMAN Bola-like protein 2 OS=Homo sapiens GN=BOLA2 PE=1 SV=1

MELSAEYLREKLQRDLAEHVEVEDTTLNRCSCSFRVLVVS AKFEGKPLLQRHRLVNACL  
AEELPHIHAFEQKTLTPDQWARERQK

>sp|Q8N9W6|BOLL\_HUMAN Protein boule-like OS=Homo sapiens GN=BOLL PE=1 SV=2

MQTDSLSPSPNPVSPVPLNNPTSAPRYGTVIPNRIFVGGIDFKTNESDLRKFFSQYGSVK  
EVKIVNDRAGVSKGYGVFTFETQEDAQKILQEAELKNYDKKLNIGPAIRKQVVGIPRSS  
IMPAAGTMYLTTSTGYPTYHNGVAYFHTPEVTSVPPPWPSSRVCSSPVMVAQPIYQQA  
YHYQATTQYLPQQWQSVQPSSAPFLYLQPSSEVIYQVPEIAQDGGCVPPPLSLMETS  
VPEPYS DHGVQATYHQVYAPSAITMPAPVMQPEPIKTVWSIH

>sp|Q14137|BOP1\_HUMAN Ribosome biogenesis protein BOP1 OS=Homo sapiens GN=BOP1 PE=1 SV=2

MAGSRGAGRTAAPSVRPEKRRSEPELEPEPEPEPPLLCTSPLSHSTGSDSGVSDSEESVF  
SGLEDSGSDSSEDDDEGDEEGEDGALDDEGHSGIKKTTEEQVQASTPCPRTEMASARIGD



EYAEDSSDEEDIRNTVGNVPLEWYDDFPHVGYDLDGRRITYKPLRTRDELDDQFLDKMDDPD  
YWRTVQDPMTGRDLRLTDEQVALVRRLLQSGQFGDVGFNPYEPVDFFSGDVMIHPVTNRP  
ADKRSFIPSLVEKEKVSVMVHAIKMGWIQPRRPRDPTPSFYDLWAQEDPNAVLGRHKMHV  
PAPKLALPGAESYNPPPEYLLSEEERLAWEQQEPGERKLSFLPRKFPSLRAVPAYGRFI  
QERFERCLDLYLCPRQRKMRVNVDPEDLIPKLPRPRDLQPFPTCQALVYRGHSDLVRCLS  
VSPGGQWLVS GSDDGSLRLWEVATARCVRTPVPVGGVVKSAWNPSPAVCLVAAAVEDSVL  
LLNPALGDRLVAGSTDQLLSAFVPPEEPPLQPARWLEAEEERQVGLRLRICHGKPVTVQV  
TWHGRGDYLA VVLATQGHQVLIHQLSRRRSQSPFRRSHGQVQRVAFHPARPFLVASQR  
SVRLYHLLRQELTKKLMPNCKWVSSSLAVHPAGDNVICGSYDSKLVWFDLSTKPYRMLR  
HHKKALRAVAFHPRYPLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGHVLTDLG  
VLDVIFHPTQPWFSSGADGTVRLFT

>sp|Q8NFQ6|BPIFC\_HUMAN BPI fold-containing family C protein OS=Homo sapiens GN=BPIFC PE=2  
SV=1

MCTKTIPVLWGCFLWNLYVSSSQTIYPGIKARITQRALDYGVQAGMKMIEQMLKEKKLP  
DLSGSESLFLKVDYVNYNFSNIKISAFSFPNTSLAFVPGVGIKALTNHGTANISTDWGF  
ESPLFQDTGGADLFLSGVYFTGIIILTRNDFGHPTLKLQDCYAQLSHAHVSFSGELSVLY  
NSFAEPMEKPILKNLNEMLCPIIASEVKALNANLSTLEVLTKIDNYTLLDYSLISSPEIT  
ENYLDLNLKGVFYPLENLTDPFSPVPFVLPERSNSMLYIGIAEYFFKSASFHFTAGVF  
NVTLSTEEISNHVQNSQGLGNVLSRIAEIYILSQPFMVRIMATEPPIINLQPGNFTLDI  
PASIMMLTQPKNSTVETIVSMDFASTSVGLVILGQRLVCSLSLNRFRLLALPESNRSNIE  
VLRFENILSSILHFGVLPLANAKLQQGFPLSNPHKFLFVNSDIEVLEGFLLISTDLKYET  
SSKQQPSFHVWEGLNLISRQWRGKSAP

>sp|O60477|BRNP1\_HUMAN BMP/retinoic acid-inducible neural-specific protein 1 OS=Homo  
sapiens GN=BRNP1 PE=1 SV=2

MNWRFVELLYFLFIWGRISVQPSHQEPAGTDQHSKEFDWLISDRGPFHHSRYSLSFVER  
HRQGFTRYKIYREFARWKVRNTAIERRDLVRHPVPLMPEFQRSIRLLGRRPTTQQFIDT  
IIKKYGTHLLISATLGGEALTMMDKSRLDRKSGNATQSVEALHQLASSYFVDRDGTMR  
RLHEIQISTGAIKVTETRTGPLGCNSYDNLDVSSVLLQSTESKLHLQGLQIIFPQYLQE  
KFVQSALSyimcgegeylCQNSQCRCQCAEEFPQCNCPIITDIIMEYTLANMAKSWAEA  
YKLENSEDEFKSMKRLPSNHFLTIGSIHQHWGNDWDLQNRKLLQSATEAQRQKIQRTA  
RKLFGLSVRCRHPNPHQLPRERTIQQLARVQSLLYCENGFWGTFLESQRSCVCHGSTT  
LCQRPICVIGGNNSCAMCSLANISLCGSCNKGKLYRGRCEPNVDSESEQFISFETD  
LDFQDELKYLKQKMSRLVHTTFISNEIRLDTFFDPRWRKMSLTLSKNKNRMDFIHM  
VIGMSMRICQMRNSSLDPMFFVYNPFGSGHSEGNMPFGEFGYPRWEKIRLQNSQCYNW  
TLLGNRWKTFETVHIYLSRTRLPTLLRNETGQGPVDLSDPSKRQFYIKISDVQVFGY  
SLRFNADLLRSVQVQVNSYTGQGGFYSSSSVMLLLDIRDRINRLAPPVAPGKPLDLF  
SCMLKHLKLTNSEIIRVNHLDLYNTEILKQSDQMTAKLC

>sp|P55201|BRPF1\_HUMAN Peregrin OS=Homo sapiens GN=BRPF1 PE=1 SV=2

MGVDFDVKTFCHNLRAKPPYECPVETCRKVYKSYSGIEYHLYHYDHDNPPPPQQTPLRK  
HKKKGRQSRPANKQSPSPSEVSQSPGREVMSYAQAQRMVEVDLHGRVHRISIFDNLDVVS  
EDEEAPEEAPENGSKENTETPAATPKSGKHKNKEKRKDSNHHHHHNVSASTTPKLPEVV  
YRELEQDTPDAPRPTSYYRYIEKSAEELDEEVEYDMDEEDYIWLDIMNERRKTEGVSP  
PQEIFEYLMRLEKESYFESHKNGDPNALVDEDAVCCICNDGECQNSNVILFCDMCNLAV  
HQECYGVPIYIEGQWLCCRCLQSPSRAVDCALCPNKGGAFFKQTDGGRWAHVVCALWIPEV

CFANTVFLEPIDSIEHIPPARWKLTCYICKQRGSGACIQCHKANCYTAHVTCACQAGLY  
MKMEPVRETGANGTSFSVRKTAYCDIHTPPGSARRLPALSHSEGEDEDEDEDEGKGWSS  
EKVKKAKAKSRIKMKKARKILA EKRAAAPVVSVP CIPPHRLSKITNRLTIQRKSQFMQRL  
HSYWT LKRQSRNGVPLLRLQLTHLQSQRNCDQVGRDSEDKNWALKEQLKSWQRLRHDLER  
ARLLVELIRKREKLKRETIKVQQIAMEMQLTPFLILLRKTLEQLQEKTGNIFSEPVPLS  
EVPDYLDHIKKPMDFFTMKQNL EAYRYLNFDDFEEDFNLI VSNCLKYNAKDTIFYRAAVR  
LREQGGAVLRQARRQAEKMGIDFETGMHIPHSLAGDEATHHTEDAAEEERLVLENQKHL  
PVEEQLKLLERLDEVNASKQSVGRSRAKMIKKEMTALRRKLAHQRETGRDGPERHGPS  
SRGSLTPHPAACDKDGQTD SAAEESSSQETSKGLGPNMSSTPAHEVGRRTSVLFSKKNPK  
TAGPPKRPGRPPKNRESQMTPSHGGSPVGPPQLPIMSSLRQKRGRSPRPSSSSDSDSDK  
STEDPPMDLPANGFSGGNQPVKKSFLVYRND CSLPRSSSDSESSSSSSSAASDRTSTP  
SKQGRGKPSFSRGTFPEDSSEDTSGTENEAYS VGTGRGVGHSMVRKSLGRGAGWLEDED  
SPLDALDLVWAKCRGYSPYALIIDPKMPREGMFHHGVPIPVPPLEVLKLGEMTQEARE  
HLYLVLFDDNKRWTQWLPRTKL VPLGVNQDL DKEKMLEGRKSNIRKSVQIAYHRALQHRS  
KVQGEQSSETSDSD

>sp|Q8TDN6|BRX1\_HUMAN Ribosome biogenesis protein BRX1 homolog OS=Homo sapiens GN=BRX1  
PE=1 SV=2

MAATKRKRGGFAVQAKPKRNEIDAEPKAKRHATAEEVEEEERDRIPGPVCKGKWKNE  
RILIFSSRGINFTRHLMQDLRLMPHSHKADTKMDRDKDLFVINEVCEMKNCKCIYFEA  
KKKQDLYMWLSNSPHGPSAKFLVQNIHTLAELKMTGNCLKGSRP LLSFDPAFDELPHYAL  
LKELLIQIFSTPRYPKSPQPFVDHVFTFTILDNRIWFRNFQII EEDAALVEIGPRFVLNL  
IKIFQGSFGGPTLYENPHYQSPNMHRRVIRSITA AKYREKQQVKDVQKLRKKEPKTLLPH  
DPTADVFTVPAEEKPIEIQVWKPEPKVDLKARKKRIYKRQRKMKQRMDSGKTK

>sp|P19099|C11B2\_HUMAN Cytochrome P450 11B2, mitochondrial OS=Homo sapiens GN=CYP11B2  
PE=1 SV=3

MALRAKAEVCVAAPWLSLQRARALGTRAARAPRTVLPFEAMPQHPGNRWLRLQLIWREQG  
YEHLHLEMHQTFQELGPIFRYNLGGPRMVCVMLPEDVEKLQQVDSLHPCRMILEPWVAYR  
QHRGHKCGVFLNGPEWRFNRLRLNPDVLSPKAVQRFLPMVDAVARDFSQALKKKVLQNA  
RGSLTLDVQPSIFHYTIEASNLALFGERLGLVGHPSSASLNFLHALEV MFKSTVQLMFM  
PRSLSRWISPKVWKEHFEAWDCIFQYGDNCIQKIYQELAFNR PQHYTGIVAELLKAE LS  
LEAIKANSMELTAGSVDTTAFPLMLT FELARNPDVQQILRQESLAAAASISEHPQKATT  
ELPLLRAALKETRLRYPVGLFLERVVSSDLVLQNYHIPAGTLVQVFLYSLGRNAALFPRP  
ERYNPQRWLDIRGSGRNFHHVPFGFGMRQCLGRRLAEAEMLLLLHHVLKHFLVETLTQED  
IKMVYSFILRPGTSPLLTFRAIN

>sp|Q6UB35|C1TM\_HUMAN Monofunctional C1-tetrahydrofolate synthase, mitochondrial OS=Homo  
sapiens GN=MTHFD1L PE=1 SV=1

MGTRLPLVLRQLRRPPQPPGPPRRLRVPCRASSGGGGGGGGREGLLGQRRPQDGQARSS  
CSPGGRTPAARDSIVREVIQNSKEVLSLLQEKNPAFKPVLATIIQAGDDNLMQEINQLAE  
EAGLNITHICLPDSSEAEIIDEILKINEDTRVHGLALQISENLF SNKVLNALKPEKDVD  
GVTDINLGKLVRGDAHECFVSPVAKAVIELLEKSGVNLDGKKILVVGAGHSLEAALQCLF  
QRKGSMTMSIQWKTRQLQSKLHEADIVVLGSPKPEEIPLTWIQPGTTVLNCSHDFLSGKV  
GCGSPRIHFGGLIEEDDVILLAAALRIQNMVSSGRRWLREQQHRRWRHLCKLQPLSPVP  
SDIEISRGQTPKAVDVLAKEIGLLADEIEIYGKSKAKVRLSVLERLKDQADGKYVLVAGI  
TPTPLGEGKSTVTIGLVQALTAHLNVNSFACLRQPSQGPTFGVKGAAGGGYAQVIPMEE

FNLHLTGDIHAITAANNLLAAIDTRILHENTQTDKALYNRLVPLVNGVREFSEIQLARL  
KKLGINKTDPSTLTEEEVSKFARLDDIDPSTITWQRVLDTNRFLRKITIGQGNTTEKGHYR  
QAQFDIAVASEIMAVLALTDSLADMKARLGRMVVASDKSGQPVTADDLGVGTALTVLMKD  
AIKPNLMQTLEGTPVFVHAGPFANIAHGNSVLADKIALKLVGEEGFVTEAGFGADIGM  
EKFFNIKCRASGLVPNVVVLVATVRALKMHGGGPSVTAGVPLKKEYTEENIQLVADGCCN  
LQKQIQITQLFGVPVVVALNVFKTDTRAIEDLVCELAKRAGAFDAVPCYHWSVGGKGSVD  
LARAVREAASKRSRFQFLYDVQVPIVDKIRITIAQAVYGAKDIELSPEAQAKIDRYTQQGF  
GNLPICMAKTHLSLSHQPKKGVPDRDFILPISDVIRASIGAGFIYPLVGTMTMPGLPTRP  
CFYDIDLDTETEQVKGLF

>sp|Q6ZSU1|C2G1P\_HUMAN Putative inactive cytochrome P450 2G1 OS=Homo sapiens GN=CYP2G1P  
PE=5 SV=1

MPYTDVVIHEIQRLVDIVPMGVPHNIIQDTQFRGYLLPKGTDVFPLLGSVLKDPKYFRYP  
DAFYPPQHFLDEQGRFKKNEAFVPFSSGKRICLGEAMARMELFLYFTSTLQNFSLCSLVPL  
VDIDITPKLSGFGNITPTYELCLVAR

>sp|Q6ZMU1|C3P1\_HUMAN Putative protein C3P1 OS=Homo sapiens GN=C3P1 PE=5 SV=3

MPVRTLFPESWLWRKFTLPKSKSGISHYPISVKVPDSITTWQFVVVSLKAGQGLCVSDPF  
ELTVMSFFVDLKLPSVIRNEQVQIQAMLYNFRDRQAKVRVEFPKHETLCSASKPGAPS  
HQAGVQIQQTSYSIVLEPQGQTQTKLVPRQEFLNMVPDTEAEVFISVQGYTQMLTHRSSD  
GTYHTSKGNPGSTWLTSYVFRVFALAYSMMTTQVLSLSSLCDMANWIIIDRQAEDGHFLE  
KGPVVMTSMQDGYQGSEEDVSLTALVLIALNEGKELCRQKNLMASIERARGFLERKLDPDI  
QTTFAVAIASYALALANSSQANDCLDSFASPSGCGMLLNQPSWSGEGVISNPAMCYSSL  
SVS

>sp|P20851|C4BPB\_HUMAN C4b-binding protein beta chain OS=Homo sapiens GN=C4BPB PE=1 SV=1

MFFWCACCLMVAWRVSASDAEHCPELPPVDNSIFVAKEVEGQILGTYVCIKGYHLVGKKT  
LFCNASKEWDNTTTECRLGHCPDVLVNGEFSSSGPVNVSDKITFMCNDHYILKGSNRSQ  
CLEDHTWAPPFPICKSRDCDPPGNPVHGYFEGNNFTLGSTISYYCEDRYLVGVQEQQCV  
DGEWSSALPVCKLIQEAPKPECEKALLAFQESKNLCEAMENFMQQLKESGMTMEELKYSL  
ELKKAELKAKLL

>sp|Q8TCZ2|C99L2\_HUMAN CD99 antigen-like protein 2 OS=Homo sapiens GN=CD99L2 PE=1 SV=1

MVAWRSALFLVCLAFSLATLVQRGSGDFDDFNLEDAVKETSSVKQPWDHTTTTTTNRPGTT  
RAPAKPPGSLDLADALDDQDDGRRKPGIGGRERWNHVTTTTTKRPVTTAPANTLGNDFD  
LADALDDRNRDDGRRKPIAGGGGFSKDLEDIVGGGEYKPKDGKGDGRYGSNDDPGSGM  
VAEPGTIAGVASALAMALIGAVSSYISYQQKKFCFSIQQLNADYVKGENLEAVVCEEPQ  
VKYSTLHTQSAEPPPPPEPARI

>sp|Q8N6N3|CA052\_HUMAN UPF0690 protein Clorf52 OS=Homo sapiens GN=Clorf52 PE=1 SV=1

MAAEKDPLSYFAAYGSSSSGSSDEEDNIEPEETSRRTPDPAKSAGGCRNKAERLPGPD  
ELFRSVTRPAFLYNPLNKQIDWERHVKAPEEPPKFEKIKWSNYVPPPETYTTEKKPPPP  
ELDMAIKWSNIYEDNGDDAPQNAKKARLLPEGEETLESDEKDEHTSKKRKVEPGEPACK  
KK

>sp|Q9NX04|CA109\_HUMAN Uncharacterized protein Clorf109 OS=Homo sapiens GN=Clorf109 PE=1  
SV=1

MTQDRPLLAVQEALKKCFPVVEEQQLWQSALRDCQPLLSSLSNLAEQLQAAQNLRFEDV  
PALRAFPDLKERLRKQLVAGDIVLDKLGRLAILLKVRDMVSSHVERVFQIYEQHADTV  
GIDAVLQPSAVSPSVADMLEWLQDIERHYRKSYLKRKYLLSSIQWGLANIQALPKAWDR

ISKDEHQDLVQDILLNVSFFLEE

>sp|Q5JT78|CA137\_HUMAN Putative uncharacterized protein Clorf137 OS=Homo sapiens  
GN=Clorf137 PE=4 SV=1

MALKTSLGSGVQFMEQFCWPHLRSFCETCVGSWSIQMRQHQQSSSFGSLPQETNLTLCVC  
KPQAPQKLDPTLSSCFFIESCGAQVPVEGSRRETSITV

>sp|Q9NUP1|BL1S4\_HUMAN Biogenesis of lysosome-related organelles complex 1 subunit 4  
OS=Homo sapiens GN=BLOC1S4 PE=1 SV=1

MEGSFSDGGALPEGLAEAEPAQGAWSGDSGTVSQSHSSASGPWEDEGAEDGAPGRDLPL  
LRRAAAGYAACLLPGAGARPEVEALDASLEDLLTRVDEFVGMMLDMLRGDSSHVVSEGVPR  
IHAKAAEMRRIYSRIDRLEAFVRMVGGRVARMEEQVTKAEAEELGTFPRAFKKLLHTMNVP  
SLFSKSAPSRPQQAGYEAPVLFRTEDYFPCCSERPQL

>sp|Q9Y3E2|BOLA1\_HUMAN Bola-like protein 1 OS=Homo sapiens GN=BOLA1 PE=1 SV=1

MLSGRLVLGLVSMAGRVCLCQGSAGSGAIGPVEAAIRTKLEEALSPEVLELRNESGGHAV  
PPGSETHFRVAVVSSRFEGLSPLQRHRLVHAALAEELGGPVHALAIQARTPAQWRENSQL  
DTSPPCLGGNKKTGTGP

>sp|Q9UKI2|BORG2\_HUMAN Cdc42 effector protein 3 OS=Homo sapiens GN=CDC42EP3 PE=1 SV=1

MPAKTPIYLKAANNKKGKFKLRDILSPDMISPPGLGDFRHTIHIGKEGQHDVFGDISFLQ  
GNYELLPGNQEKALHGQFPGHNEFFRANSTSDSVFTETPSPVLKNAISLPTIGGSQALML  
PLLSPVTFNSKQESFGPAKLPRLSCEPVMEKAQEKSSLENGTVHQGDTSWGSSGSASQ  
SSQGRDSHSSSLSEQYPDWPAEDMFDHPTPCELIKGKTKSEESLSDLTGSLLSLQLDLGP  
SLLDEVLVNMDKNK

>sp|P15056|BRAF\_HUMAN Serine/threonine-protein kinase B-raf OS=Homo sapiens GN=BRAF PE=1  
SV=4

MAALSGGGGGAEPGQALFNQDMEPEAGAGAGAAASSAADPAIPEEVWNIKQMIKLTQEH  
IEALLDKFGGEHNPPSIYLEAYEYTSKLDALQQREQLLES LGNGTDFSVSSSASMDTV  
TSSSSSLSVLPSSLSVFQNPDTVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDS  
LKKALMMRGLIPECCAVYRIQDGEKKPIGWDTDISWLTGEELHVEVLENVPLTTHNFVRK  
TFFTLAFCDFCRKLFLQGFRCQTCGYKFHQRCSTEVPLMCVNYDQLDLLFVSKFFEHP I  
PQEEASLAETALTS GSSPSAPASDSIGPQILTSPSPSKSIPIPPFRPADEDHRNQFGQR  
DRSSAPNVHINTIEPVNIDDLIRDQGFQGGSTTGLSATPPASLPGSLTNVKALQKSP  
GPQRERKSSSSSEDRNRMTLGRDRSSDDWEIPDGQITVGQRIGSGSFGTVYKKGWHGDV  
AVKMLNVTAPTPQQLQAFKNEVGVLKTRHVNILLFMGYSTKQLAIVTQWCEGSSLYHH  
LHI IETKFEMIKLID IARQTAQGM DYLHAKSI IHRDLKSNNIFLHEDLTVKIGDFGLATV  
KSRWSGSHQFEQLSGSILWMAPEVIRMQDKNPYSFQSDVYAFGIVLYELMTGQLPYSNIN  
NRDQII F MVGRGYLSPDL SKVRSNCPKAMKRLMAECLKKRDERPLFPQILASIELLARS  
LPKIHRSAEPSLNRAGFQTEDFSLYACASPKTPIQAGGYGAFPVH

>sp|P38398|BRCA1\_HUMAN Breast cancer type 1 susceptibility protein OS=Homo sapiens  
GN=BRCA1 PE=1 SV=2

MDLSALRVEEVQNVINAMQKILECPICLEL IKEPVSTKCDHIFCKFCMLKLLNQKKGPSQ  
CPLCKNDITKRS LQESTRFSQLVEELLKII ICAFQLDTGLE YANSYNFAKKENNSPEHLKD  
EVSIIQSMGYRNRKRLLQSEPENPSLQETSLSVQLSNLGTVRTLR TKQRIQPQKTSVYI  
ELGSDSSEDTVNKATYCSVG DQELLQITPQGT RDEISLDSAKKAACEFSETDVTNTEHHQ  
PSNNDLNTTEKRAAERHPEKYQGSSVSNLHVEPCGTNTHASSLQHENS SLLLT KDRMNVE  
KAFCNKSQKPG LARSQHNRWAGSKETCNDRRTPSTEKKVDLNADPLCERKEWNKQKLPC

SENPRDTEVPWITLNSSIQKVNEWFSRDELGSDSDHGESESNKAVADVLDVLNEVD  
EYSGSSEKIDLLASDPHEALICKSERVHKS SVESNIEDKIFGKTYRKKASLPNLSHTEN  
LIIGAFVTEPQIIQERPLTNKLKRKRRTSGLHPEDFIKKADLAVQKTPEMINQGTNQTE  
QNGQVMNITNSGHENKTGDSIQNEKNPNPIESLEKESAFKTKAEPISSSISNMELELNI  
HNSKAPKKNRLRRKSSTRHIALELVVSRNLSPPNCTELQIDSCSSSEEIKKKKYNQMPV  
RHSRNLQLMEGKEPATGAKKSNKPNEQTSKRHSDTFPELKL TNAPGSFTKCSNTSELKE  
FVNPSLPREEKEELETVKVSNAEDPKDMLSGERVLTERTSVESISSISLVPGTDYGTQ  
ESISLLEVSTLGAKTEPNKCVSQCAAFENPKGLIHGCSKDNRNDEGFKYPLGHEVNHS  
RETSIEMEESELDAQYLQNTFKVSKRQSFAPFSNPGNAEEECATFSAHSGSLKKQSPKVT  
FECEQKEENQGKNESNIKPVQTVNITAGFPVVGQKDKPVDNAKCSIKGGSRFCLSSQFRG  
NETGLITPNKHGLLQNPYRIPLPFIKSFVTKCKKNLLEENFEEHSMSPEREMGNENIP  
STVSTISRNNIRENVFKEASSNINEVGSSSTNEVGSSINEIGSSDENIAELGRNRGPKL  
NAMLRLGVLQPEVYKQSLPGSNCKHPEIKKQEYEEVVQTVNTDFSPYLISDNLEQPMGSS  
HASQVCSETPDDLDDGEIKEDTSFAENDIKESSAVFSKSVQKGELSRSPSPFTHTHLAQ  
GYRRGAKKLESSEENLSSEDEELPCFQHLLFGKVNIPSQSTRHSTVATECLSKNTEENL  
LSLKNSLNDCSNQVILAKASQEHHLSEETKCSASLFSSQCSELEDLTANTNTQDPFLIGS  
SKQMRHQSESQGVGLSDKELVSDDEERGTLGLEENNQEEQMSDNLGEAASGCESETSVSE  
DCSGLSSQSDILTTQQRDTMQHNLIKLQQEMAELEAVLEQHGSQPSNSYPSIISDSSALE  
DLRNPEQSTSEKAVLTSQKSSEYPI SQNPEGLSADKFEVSADSSTSKNKEPGVERSSPSK  
CPSLDDRWMHSCSGSLQNRNYP SQEELIKVVDVEEQLEESGPHDLTETSYLPRQDLEG  
TPYLESGLSLFSDDPESDPSEDRAPE SARVGNIPSSTSALKVPQLKVAESAQSPAAAHTT  
DTAGYNAMEESVSREKPELTASTERVNKRMSMVVSGLTPEEFMLVYKFARKHHITLTNLI  
TEETHVVMKTADEFVCERTLKYFLGIAGGKVVVS YFWVTQSIKERKMLNEHDFEVRGDV  
VNGRNHQGPKRARESQRKIFRGL EICCYGPFTNMPTDQLEWMVQLCGASVVKELSSFTL  
GTGVHPIVVVQPDATEDNGFHAIGQMCEAPVVTREWVLD SVALYQCQELDTYLIPQIPH  
SHY

>sp|Q9C0B6|BRNP2\_HUMAN BMP/retinoic acid-inducible neural-specific protein 2 OS=Homo  
sapiens GN=BRINP2 PE=2 SV=2

MRWQCGRFRGLRPAPVPTALLALGLPGWVLAVSATAAAVVPEQHASVAGQHPLDWLLT  
DRGPFHRAQEYADFMERYRQGFTRYRIYREFARWKVNNLALERKDFFS LPLPLAPEFIR  
NIRLLGRRPNLQQVTENLIKKYGTHFLSATLGGEESLTFVVDKQKLGRKTETTGGASII  
GGSGNSTAVSLETLHQLAASYFIDRESTLRLHHIQIATGAIKVTETRTGPLGCSNYDNL  
DSVSSVLVQSPENKVQLLGLQVLLPEYLRERFVAAALSYITCSSEGELVCKENDCWCKCS  
PTFPECNCPDADIQAMEDSLLQIQDSWATHNRQFEESEEFQALLKRLPDDRFLNSTAISQ  
FWAMDTSLQHRYQQLGAGLKVLFKKTHRILRRLFNLCRCHRQPRFRLPKERSLSYWWNR  
IQSLLYCGESTFPGTFLEQSHSCTCPYDQSSCQGPIPCALGEGPACAHCAPDNSTRCGSC  
NPGYVLAQGLCRPEVAESLENFLGLETDLQDLELKYLLKQKDSRIEVHSIFISNDMRLGS  
WFDPSWRKRMLLTLKSNKYKPLVHVMLALSQICLTKNSTLEPVMAIYVNPFGGSHSES  
WFMPVNEGSFPDWERTNVDAQAQCNWTITLGNRWKTFETVHVYLSRIKSLDDSSNET  
IYYEPLMTDPSKNLGYMKINTLQVFGYSLPFPDPAIRDILQLDYPYTQGSQDSALLQL  
IELRDRVNQLSPPGKVRLDLFSCLLRHRLKLANNEVGRIQSSLRAFNSKLPNPVEYETGK  
LCS

>sp|Q76B58|BRNP3\_HUMAN BMP/retinoic acid-inducible neural-specific protein 3 OS=Homo  
sapiens GN=BRINP3 PE=1 SV=1

MIWRSRGAELFSLMALWEWIALSLHCWVLAVAAVSDQHATSPFDWLLSDKGPFHRSQEY  
TDFVDRSRQGFSTRYKIYREFGRWKVNNLAVERRNFLGSPLPLAPEFFRNIRLLGRRPTL  
QQITENLIKKYGTHFLSATLGGEESLTIFVDKRKLSKRAEGSDSTNSSSVTLETLHQL  
AASYFIDRDSTLRRLLHHIQAIASTAIVTETRTGPLGCSNYDNLDSVSSVLVQSPENKIQL  
QGLQVLLPDYLQERFVQAALSYIACNSEGEFICKENDCWCHCGPKFPECNCPSMDIQAME  
ENLLRITETWKAYNSDFEESDEFKLFMKRLPMNYFLNTSTIMHLWTMDSNFQRRYELEN  
SMKQLFLKAQKIVHKLFSLSKRCHKQPLISLPRQRTSTYWLTRIQSFLYCNENGLLSFS  
EETHSCTCPNDQVVCTAFLPCTVGDAACLTCAPDNRTTCGTCNTGYMLSQGLCKPEVAE  
STDHYIGFETDLQDLEMKYLLQKTDRIEVHAIFISNDMRLNSWFDPSWRKRMLLTLSN  
KYKSSLVHMILGSLQLCLTKNSTLEPVLAVYVNPFGGSHSESWFMPVNENSFPDWERTK  
LDLPLQCYNWTLTLGNKWKTFETVHIYLSRIKSNGPNGNESIYYEPEFIDPSRNLGY  
MKINNIQVFGYSMHFDPEAIRDLILQLDYPYTQGSQDSALLQLEIRDRVNKLSPPGQRR  
LDLFSCLLRHRLKLSTSEVVRIQSALQAFNAKLNTMDYDTTKLCS

>sp|Q9ULD4|BRPF3\_HUMAN Bromodomain and PHD finger-containing protein 3 OS=Homo sapiens  
GN=BRPF3 PE=1 SV=2

MRKPRRKSQRNAEGRRSPSPYSLKCSPTRETLTYAQAQRIVEVDIDGRLHRISYDPLKI  
ITEDELTAQDITECNSNKENSEQPQFPGKSKKPSSKGGKKESCKHASGTSFHLPPQSFR  
MVDSGIQPEAPPLPAAYRYIEKPPEDLDAEVEYDMDEEDLAWLDMVNEKRRVDGHSLSV  
ADTFELLVDRLEKESYLESRSSGAQQSLIDEDAFCCVCLDDECHNSNVILFCDICNLAVH  
QECYGVPIPEGWLCRCCLQSPSRPVDCILCPNKGGAFTQSDGHWAVVCAIWIPEVC  
FANTVFLEPIEGIDNIPPARWKLTCYICKQKGLGAAIQCHKVNCYTAFHVTCAQRAGLFM  
KIEPMRETSLNGTIFTVRKTAYCEAHSPPGAATARRKGDSPRSISSETGDEEGLKEGDGEE  
EEEEVEEEEEQEAQGGVSGSLKGVPKSKMSLQKQIKKEPEEAGQDTPSTLMLAVPQIP  
SYRLNKICSGLSFQRKNQFMQRLHNYWLLKRQARNGVPLIRRLHSHLQSQRNAEQREQDE  
KTSVKEELKYWQLRHDLERARLLIELIRKREKLKREQVKVQQAAMELELMPFNVLRT  
TDLLEQKDPAHIFAEPVNLSVPDYLEFISKPMDFSTMRRKLESHLYRTLEEFEEFDFNL  
IVTNCMKYNAKDTIFHRAAVRLRDLGGAILRHARRQAENIGYDPERGTHLPESPKLEDFY  
RFSWEDVDNIIIPENRAHLSPEVQLKELLEKLDLVSAMRSSGARTRRVRLRREINALRQ  
KLAQPPPPQPPSLNKTVSNGLPAGPQGDAAVLEQALQEEPEDDGRDDSKLPPPPTLEP  
TGPAPSLSEQESPPEPTLKPINDSKPPSRFLKPRKVEEDELLEKSPLQLGNEPLQRLLS  
DNGINRLSLMAPDTPAGTPLSGVGRRTSVLFFKAKNGVKLQRSPDRVLENGEDHGVAGSP  
ASPASIEEERHSRKRPRSRSCSESEGERSPQEEETGMTNGFGKHTESGSDSECSLGLSG  
GLAFEACSGLTPPKRSRGKPAISRVPFLEGVNGSDYNGSGRSLLPFEDRGDLEPLELV  
WAKCRGYPSYPALIIDPKMPREGLLHNGVIPVPPLDVLKLGKQAEAGEKFLVLFFD  
NKRTWQWLPRDKVPLPGVEDTVDKLKMLEGRKTSIRKSVQVAYDRAMIHLSRVRGPHSFV  
TSSYL

>sp|P43251|BTD\_HUMAN Biotinidase OS=Homo sapiens GN=BTD PE=1 SV=2  
MAHAHIQGGRRAKSRFVVCIMSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYYVA  
AVYEHP SILSLNPLALISRQEALELMNQNDIYEQQVMTAAQKDVQIIIVFPEDGIHGFNF  
TRTSIYPFLDFMPSQVVRWNPCLEPHRFNDTEVLQRLSCMAIRGDMFLVANLGTKEPCH  
SSDPRCPKDGRYQFNTNVVFSNNGTLVDRYRKHNLYFEAAFDVPLKVDLITFDTPFAGRF  
GIFTCFDILFFDPAIRVLRDYKVHVYPTAWMNQLPLLAATIEIQKAFVAVFGINVLAAN  
VHHPVLGMTGSGIHTPLESFYHDMENPKSHLIIAQVAKNPVGLIGAENATGETDPSHSK  
FLKILSGDPYCEKDAQEVHCDEATKWNVNAPPTFHSEMMYDNFTLVPVWGKEGYLHVCSN

GLCCYLLYERPTLSKELYALGVFDGLHTVHGTYIIVCALVRCGGLGFDTCGQEITEATG  
IFEFHLWGNFSTSYIFPLFLTSGMTLEVDPQLGWENDHYFLRKSRLSSGLVTAALYGRLY  
ERD

>sp|Q14201|BTG3\_HUMAN Protein BTG3 OS=Homo sapiens GN=BTG3 PE=1 SV=3

MKNEIAAVVFFTRLVRKHKDLKKEAVERFAEKLTLILQEYKNHWYPEKPSKGQAYRCI  
RVNKFQRVDPDLKACENSILYSDLGLPKELTLWVDPCEVCCRYGEKNNAFIVASFENK  
DENKDEISRKVTRALDKVTSYHSYSSSSDEETSKEMEVKPSVTAASPVIQISELIFP  
PLPMWHPLPRKKPGMYRGNGHQNHYPPVPFGYPNQGRKNKPYRPIPTWVPPPGMHCDR  
NHWINPHMLAPH

>sp|A2RUR9|C144A\_HUMAN Coiled-coil domain-containing protein 144A OS=Homo sapiens  
GN=CCDC144A PE=2 SV=1

MASWGGEKRGGAEGSPKPAVYATRKTPSVGSQGDQWYLGYPGDQSSGFYPSWWKNSVGS  
ESKHGEGALDQPQHDVRLLEDLGEHLHRAARSGDVPGEHILAPGDTGVDKDRKKSIIQQLV  
PEYKEKQTPESLPQNNPNDPWPTNLTLSDETCQRSKNLKVDDKCPSPSPMPENQSATKE  
LGQMNLTREKMDTGVLVSGNDTLHDLCSQLPENKESKEAEQDSELTSEEEQERLKG  
ENKQPQKTSQEPESMAKDCDREDIPIYPVLPHVQKSEEMWIEQGKLEWKNQLKLVINELKQ  
RFGEIYEKYKIPACPEEEPLDNRGTVDKIPFNLNIPGCEEDASEISVSVVFET  
FPEQKEPSLKNIIHPYHYPSGSQEHVCQSSSKFHLHENKLDNDNDNKPIGHIFSTDKN  
FHNDASTKKARNPEVVMEMKEDQEFDLQMTKNMNQNSDSGSTNNYKSLKPKLENLSSLP  
PDSRTSEVYLHEELQQDMQKFKNEVNTLEEEFLALKKEDVQLHKDVEEEMEKHRSNSTE  
LSGTLTDGTTVGNDDDLQIPRKENGEDRPADKTSNEKNEVKNQIYPEADFADSMEP  
SEIASDCELSHVSVENFMILLIEQLRMEYKDSASLPRIQDTFCLCEHLLKLKNNHCDQLT  
VKLKQMENMVSVLQNELSETKTKLQLELQKIEWEKELYDLRLALKQENEEKRNADMLYN  
KDSEQLRIKEEECGKVETKQQLKWNLRRLVKELRTVRNNLDLVVQERNDAAKQLSEEQD  
ARILQDQILTQKQKELMARKKMNSEISHRHQKEKDLFHEDCMLQEEIALLRLEIDTIKN  
QNKQKEKKYFEDIEAVKEKNDNLQKIIKLNEETLTETILQYSGQLNNLTAKNKLNSELE  
NGKQNERLEIEMESYRCRLAAVRDCDQSQRTARDLKLDFQRTRQEWVRLHDKMKVDMG  
LQAKNEILSEKLSNAESKINSILQLHNTRDALGRESLILERVQRDLSQTQCQKKETEQM  
YQIEQSKLKKYIAQESVEERLSQLQSENMLLRQQLDDAHKANSQEKTSSTIQDQFHSA  
AKNLQAESEKQILSLQEKNEKLMDEYNHLKERMDQCEKEKAGRKIDLTEAQETVPSRCLH  
LDAENEVLQLQQLTFSMKAIQKQCETLQKNKKQLKQEVNLSYMERNNMLERGKAEWHKL  
LIEERARKEIEEKLNEAILTLQKQAAVSHEQLVQLREDNTTSIKTQMELTIKDLESEISR  
IKTSQADFNTKELERYKELYEEVKVRESLSNELSRTNEMIAEVSTQLTVEKEQTRSRL  
FTAYATRPVLESPCVGNLNDSEGLNRKHIPRKKRSALKDMESYLLKMQQLQNDLTAEVA  
GSSQTGLHRIPQCSSFSSSLHLLCSICQPFLLILQLLLNMNLDPI

>sp|Q9BXJ0|C1QT5\_HUMAN Complement C1q tumor necrosis factor-related protein 5 OS=Homo  
sapiens GN=C1QTNF5 PE=1 SV=1

MRPLLVLGLLAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPGRDGRDGRDGAPG  
APGEKGEGRPGLPGRGDPGRGEAGPAGTPAGECSVPPRSAFSKRSESRVPPPSD  
APLPFDRVLVNEQGHYDAVTGKFTCQVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ  
FFGGWPKPASLSGGAMVRLEPEDQVWVQVGVDYIGIYASIKTDSTFSGFLVYSDWHSSP  
VFA

>sp|Q5T0F9|C2D1B\_HUMAN Coiled-coil and C2 domain-containing protein 1B OS=Homo sapiens  
GN=CC2D1B PE=1 SV=1

MMPGPRPRKGPQARGQGVAAMQGLFMEFGPEDMLLGMDEAEDDEDLEAELLALTGEAQ  
TTGKKPAPKGPAPLPMAHIEKLAADCMRDVEEEEEEGLEEDAELLTELQEVLGVDEETE  
PLDGDEVADPGGSEEENGLEDTEPPVQTAVLTASAPAAQAGASQGLHALLEERIHNYREA  
AASAKEAGEAAKARRCERGLKTLESQLASVRRGRKINDEIPPPVALGKRPLAPQEPANR  
SPETDPPAPPALESDNPSQPETSLPGISAQPVSDLDPDPRALLSSRQREYKVAALSAKRA  
GELDRARELMRIGKRFQAVLEALEKGPVDSLAMPAPEDLKPQQASQAPTAPSVIPPAV  
ERVQPVMAPDVPATPVAPTESQTVLDALQQRLNKYREAGIQARSGGDERKARMHERIAKQ  
YQDAIRAHGRKVNFAELPVPPGFPPIPGLESTMGVEEDAVAATLAAAEKLSAEDSAP  
ADKDEDEPPGHLQGEPPAQAQPVAKKPARPTVPSSQRLPEPRASSSKESPSPSVREQLALL  
EARKLQYQRAALQAKRSQDLEQAKAYLRVAKWLEAQIIQARSGRPVDSLKVPSPLTDEEG  
DFILIHEDLRLSQKAEVYAQLQKMLLEQKEKCLLFSKQFMHQGNVAETTRFEKLAQDR  
KKQLEILQLAAQGLDPPTHFELKTFQTVRIFSELNSTEMHLIIVRGMNLPAPPGVTPD  
DLDAFVRFEFHYPNSDQAQKSKTAVVKNTNSPEFDQLFKLNINRNHRGFKRVIQSKGIKF  
EIFHKGSFFRSDKLVGTAHLKLERLENECEIREIVEVLDRKPTGGKLEVKVRLREPLSG  
QDVQMTENWLVLEPRGL

>sp|Q9BWL3|CA043\_HUMAN Uncharacterized protein Clorf43 OS=Homo sapiens GN=Clorf43 PE=2  
SV=1

MASGSNWSGVNVVLVMAYGSLVFVLLFIFVKRQIMRFAMKSRRGPHVPVGHNAPKDLKE  
EIDIRLSRVQDIKYEPLLADDDARLLQLETQGNQSCYNYLYRMKALDAIRTSEIPFHSE  
GRHPRSLMGKNFRSYLLDLRNTSTPFKGVRKALIDTLLDGYETARYGTGVFGQNEYLRQ  
EALSELATAVKARIGSSQRHHQSAAKDLTQSPEVSPTTIQVTYLPSSQSKRAKHFLELK  
SFKDNYNTLESTL

>sp|Q8WWF1|CA054\_HUMAN Uncharacterized protein Clorf54 OS=Homo sapiens GN=Clorf54 PE=2  
SV=1

MDVLFVAIFAVPLILGQEYEDERLGEDEYYQVYYYYTVTPSYDDFSADFTIDYSIFESE  
DRLNRDLKDITEAIIETTISLETARADHPKPVTVKPVTTPEPDLNDAVSSLRSPIPLLS  
CAFVQVGMVFM

>sp|Q8TC20|CAGE1\_HUMAN Cancer-associated gene 1 protein OS=Homo sapiens GN=CAGE1 PE=1  
SV=2

MNKDYQKFWSPPDPVHFEVDTSEKVESMSSESDTMNVSNLSQGVMLSHSPICMETTGTT  
CDLPQNEIKNFERENEYESTLCEDAYGTLNLLNDNNIENYSTNALIQPVDTISISSLRQ  
FETVCKFHWEAFDDDEMTEKPEFQSQVYNYAKDNNIKQDSFKEENPMETSVSANTDQLGN  
EYFRQPPPRSPPLIHCSGEMLKFTESLAKSIAKESALNPSQPPSFLCKTAVPSKEIQNY  
GEIPEMSVSYEKEVTAEGVERPEIVSTWSSAGISWRSEACRENCMPDWEQSAESLQPVQ  
EDMALNEVLQKLKHTNRKQEVRIQELQCSNLYLEKRVKELQMKITKQQVFIDVINKLKEN  
VEELIEDKYKIILEKNDTKKTLQNLEEVLANQKHLQESRNDKEMQLQFKKIKANYVCL  
QERYMTEMQQKNKSVSQYLEMDKTLKKEEEVERLQQLKKELEKATASALDLLKREKEAQ  
EQEFLSLQEEFQKLEKENLEERQKLKSRLEKLLTQVRNLQFMSENERTKNIKLQQQINEV  
KNENAKLKQVARSEEQNYVPKFETAQLKDQLEEVLKSDITKDTKTTHSNLLPDCSPCEE  
RLNPADIKRASQLASKMHSLLALMVGLLTCQDIINSDAEHFKESEKVSIMLQKLKSLHL  
KKKTLDKVIDCDSDEAKSIRDVPTLLGAKLDKYHSLNEELDFLVTSYEEIECADQRLA  
ISHSQIAHLEERNKHLEDLIRKPREKARKPRSKSLENHPKSMTMMPALFKENRNDLD

>sp|Q9ULX7|CAH14\_HUMAN Carbonic anhydrase 14 OS=Homo sapiens GN=CA14 PE=1 SV=1  
MLFSALLLEVIWILAADGGQHWTYEGPHGQDHPASYPECGNNAQSPIDIQTDSVTFDPD



LPALQPHGYDQPGTEPLDLHNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHWGQKGSPPG  
SEHQINSEATFAELHIVHYDSYDSLSEAAERPQGLAVLGILIEVGETKNIAYEHILSH  
LHEVRHKDQKTSVPPFNLRELLPKQLGQYFRYNGSLTPPCYQSVLWTVFYRRSQISMEQ  
LEKLQGTLFSTEEEPSKLLVQNYRALQPLNQRMVFAFQIAGSSYTTGEMLSLGVGILVG  
CLCLLLAVYFIARKIRKKRLENRKSVVFTSAQATTEA

>sp|P00915|CAH1\_HUMAN Carbonic anhydrase 1 OS=Homo sapiens GN=CA1 PE=1 SV=2  
MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEI  
INVGHSHFVNFEEDNDRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYSAEHL  
VAHWNSAKYSSLAEAASKADGLAVIGVLMKVGEANPKLQKVLDAQAIAIKTKGRAPFTNF  
DPSTLLPSSLDFTWTPGSLTHPPLYESVTWIICKESISVSSEQLAQFRSLLSNVEGDNAV  
PMQHNNRPTQPLKGRTVRAS

>sp|P00918|CAH2\_HUMAN Carbonic anhydrase 2 OS=Homo sapiens GN=CA2 PE=1 SV=2  
MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDTHTAKYDPSLKPLSVSYDQATSLRIL  
NNGHAFNVEFDDSDQKAVLKGGPLDGTYRLIQFHFHWGSLDGQGEHTVDKKKYAAELHL  
VHWNTKYGDFGKAVQQPDGLAVLGIFLKVGSAPGLQKVVDVLDSIKTKGKSADFTNFD  
RGLLPESLDYWTYPGSLTTPPLLECVTWIVLKEPISVSSEQVLKFRKLNFNGEPEPEELM  
VDNWRPAQPLKNRQIKASF

>sp|P35219|CAH8\_HUMAN Carbonic anhydrase-related protein OS=Homo sapiens GN=CA8 PE=1 SV=3  
MADLSFIEDTVAFPEKEDEEEEEEGVEWGYEEGVEWGLVFPDANGEYQSPINLNSREAR  
YDPSLLDVRLSPNYVCRDCEVTNDGHTIQVILKSKSVLSGGPLPQGHEFELYEVRFHWG  
RENQRGSEHTVNFKAFFMELHLIHWNSTLFGSIDEAVGKPHGIAIIALFVQIGKEHVGLK  
AVTEILQDIQYKGKSKTIPCFNPNTLLPDPLLRDYWVYEGSLTIPPCSEGVTWILFRYPL  
TISQLQIEEFRRLRTHVKGAELEVGCDGILGDNFRPTQPLSDRVIRAAFQ

>sp|P22676|CALB2\_HUMAN Calretinin OS=Homo sapiens GN=CALB2 PE=2 SV=2  
MAGPQQPPYLHLAELTASQFLEIWKHFDADNGYIEGKELENFFQELEKARKGSGMMSK  
SDNFGEKMKEFMQKYDKNSDGKIEMAELAQILPTEENFLLCFRQHVGSAAEFMEAWRKYD  
TDRSGYIEANELKGFLSDLLKKANRPYDEPKLQEYTTQILRMFDLNGDGKLGLEMSRLL  
PVQENFLLKFQGMKLTSEEFNAIFTFYDKDRSGYIDEHELDALLKDLYEKNKEMNIQQL  
TNYRKSVMSLAEAGKLYRKDLEIVLCSEPPM

>sp|Q13939|CALI\_HUMAN Calicin OS=Homo sapiens GN=CCIN PE=2 SV=3  
MKLEFTEKNYNSFVLQNLNRQRKRKEYWDMALSVDNHVFFAHRNVLAASPLVRSLISSN  
DMKTADELFITIDTSYLSPTVDQLLDYFYSGKVVISQNV EELLRGAQYFNTPRLRVHC  
NDFLIKSI CRANCLRYLFLAELFELKEVSDVAYSGIRDNFHYWASPEGSMHFMRCPPVIF  
GRLLRDENLHVLNEDQALSALINWVYFRKEDREKYFKKFFNYINLNAVSNKTLVFASNKL  
VGMENTSSHTTLESVLMDRKQERPCSLLYQKRGALLDSVILGGQKAHQFNDGVFAY  
IIQENLWMKLSDMPYRAAALSATSAGRYIYISGGTTEQISGLKTAWRYDMDNSWTKLPD  
LPIGLVFHTMVTCTGGTVYSGGSIAPRRYVSNIYRYDERKEVWCLAGKMSIPMDGTAVIT  
KGDRHLYIVTGRCLVKGYISRVGVVDCFDSTGDVVQCITFPIEFNHRPLLSFQQDNILC  
VHSHRQSVEINLQKVKASKTTTSPVLPNSCPLDVSHAICSIGDSKVFVCGGVTTASDVQ  
TKDYTINPNAFLDQKTGKWKTLAPPPEALDCPACCLAKLPCKILQRI

>sp|Q96GE6|CALL4\_HUMAN Calmodulin-like protein 4 OS=Homo sapiens GN=CALL4 PE=2 SV=3  
MAAEHLLPGPPPSLADFRLEAGGKGTERGSGSKPTGSSRGPRMAKFLSQDQINEYKECF  
SLYDKQQRGKIKATDLVMAMRCLGASPTPGEVQRHLQTHGIDNGELDFSTFLTIMHMQI  
KQEDPKKEILLAMLMDKEKKGYVMASDLRSKLTSLGEKLTHKEVDDLFRADIEPNQKV

KYDEFIHKITLPGRDY

>sp|Q8TD86|CALL6\_HUMAN Calmodulin-like protein 6 OS=Homo sapiens GN=CALL6 PE=2 SV=2

MGLQQEISLQPWCHHPAESCQT TDMTERLSAEQIKEYKGVFEMFDEENGVEVKTGELEW  
LMSLLGINPTKSELASMAKDVDNRNKGFFNCDGFLALMGVYHEKAQNESELRAAFRVFD  
KEGKGYIDWNTLKYVLMNAGEPLNEVEAEQMMKEADKGDRTIDYEEFVAMMTGESFKLI  
Q

>sp|P27797|CALR\_HUMAN Calreticulin OS=Homo sapiens GN=CALR PE=1 SV=1

MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFLSSGKFGDE  
EKDKGLQTSQDARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQT  
DMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDN  
TYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKIDDPDTSKPEDWDKPE  
HIPDPDAKKPEDWDEEMDGEWEPPIQNPEYKGEWKPRQIDNPYKGTWHPIDNPEYS  
PDPSIYAYDNFGVLGLDLWQVKSQTIFDNFLITNDEAYAEFGNETWGVTKAAEKQMKDK  
QDEEQRLKEEEEDKKRKEEEEAEDKEDDEDKDEDEDEEDKEDEEEDVPGQAKDEL

>sp|Q9PIY5|CAMP3\_HUMAN Calmodulin-regulated spectrin-associated protein 3 OS=Homo sapiens  
GN=CAMSAP3 PE=1 SV=2

MVEAAPPGPGLRRTFLVPEIKSLDQYDFSRAKAAASLAWVLRAAFGGAEHVPPELWEPF  
YTDQYAEHVKKPPVTRLLLSAELYCRAWRQALPQLETPPNPSALLALLARRGTVPALPER  
PVREADLRHQPIILMGAHLAVIDALMAAFEFWTKTLPGPLALTSLEHKLLFWVDTTVRRL  
QEKTEQEAAQRASPAAPADGAAPAQPSIRYRKDRVARRAPCFPTVTSQDLASGAALAA  
TIHCYCPQLLRLEEVCLKDPMVSADSLYNLQLVQDFCASRLPRGCPLSLEDLLYVPPPLK  
VNLVMLAELFMCFEVLKPDFVQVKDLPDGHASPRGTEASPPQNNSGSSSPVFTFRHPL  
LSSGGPQSPLRGSTGSLKSSPSMSHMEALGKAWNRQLSRPLSQAVSFSTPFGLSDVDV  
MGDPVLLRSVSSDSLGP RPAPARTPTQPPPEPGDLPTIEEALQIIHSAEPRLLPDGAAD  
GSFYLHSPGSPKPSLASPYLPEGTSKPLSDRPTKAPVYMPHPETPSKPSCLVGEASKP  
PAPSEGSPKAVASSPAATNSEVKMTSFAERKKQLVKAEEAGAGSPTSTPAPPEALSSEM  
SELSARLEEKRRATIEAQKRRIEAIFAKHRQLGKSAFLQVQPREASGEAEAEAEADSGP  
VPGGERPAGEGQGEPTS RPKAVTFSPDLGPVPHEGLGEYNRAVSKLSAALSSLQ RDMQRL  
TDQQQRLLAPPEAPGSAPPPAAWVPGPTTGPKAASPSARRVPATRRSPGPGPSQSPRS  
PKHTRPAELRLAPLTRVLTTPHDVDSLPHLRKFSPSQVPVQTRSSILLAEETPPEPAAR  
PGLIEIPLGSLADPAAEDEGDGPAGAEDSLEEEASSEGEPRVGLGFFYKDEDKPEDEMA  
QKRASLLERQQRRAEARRRKQWQEVEKEQRREEAARLAQEEAPGPAPLVSAVPMATPAP  
AARAPAEEEVGPRKGFTRQEYERRAQLKLMDDLKVL RPRAAGSGGPGRGRRATRPRS  
GCCDDALARSARGLLGSRLSKIYSQSTLSLSTVANEAHNHLGVKRPTSRAPSPSGLMS  
PSRLPGSRERDWENGSNASSPASVPEYTGPRLYKEPSAKSNKFIHNLASHCLAGKVNE  
PQKNRILEEIEKSKANHFLILFRDSSCFRALYTLSGETEELSRLAGYGPRTVTPAMVEG  
IYKYNDRKRFTQIPAKTMSMSVDAFTIQGHLWQGKKPTTPKKGGGTPK

>sp|P17655|CAN2\_HUMAN Calpain-2 catalytic subunit OS=Homo sapiens GN=CAPN2 PE=1 SV=6

MAGIAAKLAKDREAAGLGSHDRAIKYLNQDYELRNECLEAGTLFQDPSFPAIPSALGF  
KELGPYSSKTRGIEWKRPTICADPQFIIGGATRTDICQGALGDCWLLAAIASLTLNEEI  
LARVVPLNQSFQENYAGIFHFQFWQYGEWVEVVDDRLPTKD GELLFVHSAEGSEFWSAL  
LEKAYAKINGCYEALSGGATTEGFEDFTGGIAEWYELKKPPNLFKIIQKALQKGSLLGC  
SIDITSAADSEAITFQKLVKGHAYSVTGAEVEESNGSLQKLIRIRNPWGEVETGRWNDN  
CPSWNTIDPEERERL TRRHEDGEFWMSFSDFLRHYSRLEICNLTPDTLTS DTYKKWKLTK

MDGNWRRGSTAGGCRNYPNTFWMNPQYLKLEEEDEDEEDGESGCTFLVGLIQKHRRRQR  
KMGEDMHTIGFGIYEVPEELSGQTNIHLSKNFFLTNRARERSDTFINLREVLNRFKLPPG  
EYILVPSTFEPNKDGF CIRVFSEKKADYQAVDDEIEANLEEFDISEDDIDDGFRRLFAQ  
LAGEDAETISAFELQTLRRVLAKRQDIKSDGFSIETCKIMVDMLSDSGSKLGLKEFYIL  
WTKIQKYQKIYREIDVDRSGTMNSYEMRKALEEAGFKMPCQLHQVIVARFADDQLIIDFD  
NFVRCLVRLETFLFKIFKQLDPENTGTIELDLISWLCFSVL

>sp|O15484|CAN5\_HUMAN Calpain-5 OS=Homo sapiens GN=CAPN5 PE=1 SV=2

MFSCVKPYEDQNYSSALRRDCRRRKVLFEDPLFPATDDSLYYKGTGPAVRWKRPKGICED  
PRLFVDGISSHDLHQGGVGNCFWAACSSSLASRESLWQKVIPDWKEQEWDPKPNAYAGI  
FHFHFWRFGWVDVVIDDRLPTVNNQLIYCHSNSRNEFWCALVEKAYAKLAGCYQALDGG  
NTADALVDFTTGGVSEPIDLTEGDFANDETKRNQLFERMLKVHSRGGLISASIKAVTAADM  
EARLACGLVKGHAYAVTDVRKVRLGHGLLAFFKSEKLDMIRLRNPWGEREWNGPWSDTSE  
EWQVSKSSEKMGVTVQDDGEFWMTFEDVCRYFTDI IKCRVINTSHLSIHKTWEEARLH  
GAWTLHEDPRQNRGGGCINHKDTFFQNPQYIFEVKKPEDEVLCIQQRPKRSTRREGKGE  
NLAIGFDIYKVEENRQYRMHSLQHAASSIYINSRSVFLRTDQPEGRYVIPTTFEPGHT  
GEFLLRVFTDVPSNCRELRLEPPHTCWSSLCGYPQLVTQVHVLGAAGLKDSPTGANSYV  
IIKCEGDKVRSVAVQKGTSTPEYNVKGIFYRKKLSQPITVQVWNRVLKDEFLGQVHLKAD  
PDNLQALHTLHLRDRNSRQPSNLPGTVAHVHLSSTSLMAV

>sp|Q6IMN6|CAPR2\_HUMAN Caprin-2 OS=Homo sapiens GN=CAPRIN2 PE=1 SV=1

MEVQVSQASLGFELTSVEKSLREWSRLSREVI AWLCPSSPNFILNFPPPPSASSVMVQL  
FSSPFGYQSPSGHSEEEREGNMKSAKPQVNHSQHGESQRALSPLQSTLSSAASPSQAYET  
YIENGLICLKHKIRNIEKKKKLEEDYKDRLKSGEHLNPDQLEAVEKYEEVLHNLEFAKEL  
QKTFSGLSLDLLKAQKAQRREHMLKLEAEKKKLRTILQVQYVLQNLQEHVQKDFKGG  
NGAVYLPKSKELDYLKFSKLTCPERNESLSVEDQMEQSSLYFWDLLEGSEKAVVGTTYKH  
LKDLLSKLLNSGYFESIPVPKNAKEKEVPLEEMLIQSEKKTQLSKTESVKESESLMEFA  
QPEIQPQEFLNRRYMTEVDYSNKQGEQWPEADYARKPNLPKRWDMLTEPDGQEKQESF  
KSWEASGKHQEVSKPAVSLEQRKQDTSKLRSTLPEEQKKQEISKSKSPSPQWKQDTPKSK  
AGYVQEEQKKQETPKLWPVQLQKEQDPKKQTPKSWTPSMQSEQNTTKSWTPMCEEQDSK  
QPETPKSWENNVSQKHSLTSQSQISPKSWG VATASLIPNDQLLPRKLNTEPKDVPKPVH  
QPVGSSSTLPKDPVLRKEKLQDLMTQIQGTCNFMQESVLDFDKPSSAIPTSQPPSATPGS  
PVASKEQNLSSQSDFLQEPLQATSSPVTCCSNACLVTTDQASSGSETEFMTSETPEAAIP  
PGKQPSSLASPNPPMAKGSEQGFQSPPASSSSVTINTAPFQAMQTVFNVNAPLPPRKEQE  
IKESPYSPGYNQSFTTASTQTPPQCQLPSIHVEQTVHSQETAANYHPDGTIQVSNGSLAF  
YPAQTNVFPRPTQPFVNSRGSVRGCTRGRLITNSYRSPGGYKGFDTYRGLPSISNGNYS  
QLQFQAREYS GAPYSQRDNFQQCYKRGGTSGGPRANSRAGWSDSSQVSSPERDNETFN  
DSGQGDSRSMTPVDVPVTNPAATILPVHVYPLPQQMRVAFSAARTSNLAPGTLDPQIVFD  
LLLNNLGETFDLQLGRFNCPVNGTYVFIHMLKLAVNVPLYVNLMKNEEVLSAYANDGA  
PDHETASNHAILQLFGDQIWLRLHRGAIYGSSWKYSTFSGYLLYQD

>sp|Q86UW7|CAPS2\_HUMAN Calcium-dependent secretion activator 2 OS=Homo sapiens GN=CADPS2  
PE=1 SV=2

MLDPSSEEESEGLEEEESRDVLVAAGSSQRAPPAPTREGRRDAPGRAGGGGAARSVSPS  
PSVLSEGRDEPQRQLDDEQERRIRLQLYVFFVRCIAYPFNAKQPTDMARRQQKLNKQQLQ  
LLKERFQAFLNGETQIVADEAFCAVRSYIEVFLKSDRVARMVQSGGCSANDFREVFKKN  
IEKRVRSLEIDGLSKETVLSSWIAKYDAIYRGEEDLCKQPNRMALSAVSELILSKEQLY

EMFQQILGIKKLEHQLLYNACQLDNADEQAAQIRRELDGRLQLADKMAKERKFPKFIKD  
MENMYIEELRSSVNLLMANLESLPVSKGGPEFKLQKLKRSQNSAFLDIGDENEIQLSKSD  
VVLSTLEIVIMEVQGLKSVAPNRIVYCTMEVEGEKLQTDQAEASRPQWGTQGDFTTTHP  
RPVVKVLFTESTGVLALEDKELGRVILYPTSNSSKSAELHRMVVPKNSQSDSLKIKLAV  
RMDKPAHMKHSGYLYALGQKVWKRWKRYFVLVQVSQYTFAMCSYREKKSEPQELMQLEG  
YTVDYTDPHPGQLGGGCMFFNAVKEGDTVIFASDDEQDRILWVQAMYRATGQSYKVPVPAIQ  
TQKLNPKGGTLHADAQLSGKADRFQKHGMEDEFISANPCKLDHAFLFRILQRQTLDHRLN  
DSYSLGWFSPPGVFLDEYCARYGVRGCHRHLCYLAELMEHSENGAVIDPTLLHYSFAF  
CASHVHGPNRDPGIGTVSVEEKERFEEIKERLSSLENQISHFRYCFPFGRPEGALKATLS  
LLERVLMKDIATPIPAEEVKVVRKCLEKAALINYTRLTEYAKIEETMNQASPAKLEEI  
LHLAELCIEVLQQNEEHHAEGREAFWWPDLLAEHAKEFWALFTVDMDTALEAQPQDSWD  
SFPLFQLLNNFLRNDTLLCNGKFHKLQEIVFPLVVRYVDLMESSIAQSIIHRGFEQETWQ  
PVKNIANSLPNVALPKVPSLPLNLPQIPNISTASWMPSLYESTNGSATSEDLFWKLDALQ  
MFVFDLHWPEQFAHHLEQRLKLMASDMLEACVKRTRTAFELKLQKASKTTDLRIPASVC  
TMFNVLDAAKQSTKLALDGGGEQQYHSKIDDLIDNSVKEIISLLVSKFVSVLEGVLSK  
LSRYDEGTFSSILSFTVKAAYVDPKPGMDLADTYIMFVRQNQDILREKVNEEMYIE  
KLFDQWYSSSMKVICVWLTDRDLQLHIYQLKTLIKIVKKTYRDFRLQGVLEGTLSKTY  
DTVHRRLTVEEATASVSEGGGLQGITMKDSDEEEEG

>sp|Q8WWF8|CAPSL\_HUMAN Calcyphosin-like protein OS=Homo sapiens GN=CAPSL PE=2 SV=4

MAGTARHDREMAIQAKKLTATDPIERLRLQCLARGSAGIKGLGRVFRIMDDNNRTLD  
FKEFMKGLNDYAVVMEKEEVEELFRRFDKDGNGTIDFNEFLTLPMPMSRARKEVIMQAF  
RKLDKTGDGVITIEDLREVYNAKHHPKYQNGEWSEEQVFRKFLDNFDSFYDKDGLVTPEE  
FMNYYAGVSASIDTDVYFIIMMRTAWKL

>sp|Q9BXL6|CAR14\_HUMAN Caspase recruitment domain-containing protein 14 OS=Homo sapiens  
GN=CARD14 PE=1 SV=2

MGELCRRDSALTALDEETLWEMMESHRHRIVRCICPSRLTPYLRQAKVLCQLDEEEVLHS  
PRLTNSAMRAGHLDDLKTRGKNGAIAFLESCLKFNPDVYTLVTGLQPDVDFSNFSGLME  
TSKLTECLAGAIQSLQEELNQEKGQKEVLLRRCQQLQEHGLAETRAEGLHQLEADHSRM  
KREVS AHFHEVLRKDEMLSLSLHYSNALQEKELAA SRCSLQEELYLLKQELQRANMVS  
SCELELQEQLRTASDQESGDEELNRLKEENEKLRSLTFSLAEKDILEQSLDEARGSRQE  
LVERIHS LRERAVAAERQREQYWEKEQTLLQFQKSKMACQLYREKVNALQAQVCELQKE  
RDQAYSARDSAQREISQSLVEKDSLRRQVFELTDQVCELRTQLRQLQAEP PGVLKQEART  
REPCPREKQRLVRMHAICPRDDSDCSLVSSTESQLSDLSATSSRELVD SFRSSSPAPPS  
QQSLYKRAEDFGEEPWFSFSCLEIPEGDPGALPGAKAGDPHLDYELLDTADLPQLESSL  
QPVSPGRLDVSESGVLMRRRPARRILSQVTMLAFQGDALLEQISVIGGNLTGIFIHRVTP  
GSAADQMALRPGTQIVMDYEASEPLFKAVLEDTTLEEAVGLLRVDGFCCLSVKVNTDG  
YKRLQLDLEAKVATSGDSFYIRVNLAMEGRAKGELQVHCNEVLHVTDTMFQGC GCWHAHR  
VNSYTMKDTAAHGTIPNYSRAQQQLIALIQDMTQQCTVTRKPSSGGPQKLVRIVSMDKAK  
ASPLRLSFDRLQDPSRMEGSSTCFWAESCLTLVPYTLVRPHRPARPRPVLLVPRAVGKI  
LSEKLCLLQGFKCLA EYLSQE EYEAWSQRGDI IQEGEVSGGRCWVTRHAVESLMEKNTH  
ALLDVQLDSVCTLHRMDFPIVIHVSVNEKMAKKLKKGLQRLGTSEEQLLEAARQEEGDL  
DRAPCLYSSLAPDGWSDLDGLLSCVRQAIAD EQKKVWVTEQSPR

>sp|Q9BX69|CARD6\_HUMAN Caspase recruitment domain-containing protein 6 OS=Homo sapiens  
GN=CARD6 PE=1 SV=2

MATESTPSEIIERERKKLLEILQHDPDSILDTLTSRRLISEEEYETLENTDLLKSRKL  
LILVQKKGEATCQHFLKCLFSTFPQSAICGLRHEVLKHENTVPPQSMGASSNSEDASFSP  
GIKQPEAPEITVFFSEKEHLDLETSEFFRDKTSYRETALSARKNEKEYDTPEVTLSYSV  
EKVGCEVPATITYIKDGQRYEELDDSLYLKKEEYLGSDTPEDAEATVEEEVYDDPEHVG  
YDGEEDFENSETTEFSGEEPSYEGSETSLSEEEQEKSEERKKVFKDVLLCLNMDRSRK  
VLPDFVKQFSLDRGCKWTPESPGDLAWNFLMKVQARDVTARDSILSHKVLEDESKEDLLA  
GVENLEIRDIQTINPLDVLCAATMLCSDSSLQRQVMSNMYQCQFALPLLLPDAENNKSIILM  
LGAMKDIVKKQSTQFSGGPTEDTEKFLTLMKMPVISFVRLGYCSFSKSRILNTLLSPAQL  
KLHKIFLHQDLPLLVLRQISDGLVEITWCFPDSDDRKENPFFQKPVALANLRGNLESFW  
TQFGFLMEVSSAVFFFTDCLGEKEWDLMLFLGAAIERCYFVLSSQARESEEAQIFQRIL  
NLKPAQLLFWERGDAGDRRKNMEGLQAALQEVMFSSCLRCVSVEDMAALARELGIQVDED  
FENTQRIQVSSGENMAGTAEQEGQQRHSQKSSSKSQALMPIQEPGTQCELSQNLQNLYG  
TPVFRPVLENSWLFPTTRIGGNFNHVSLSKASWVMGRPFGSEQRPKWFHPLPFQNAGAQRG  
KSFGIQSFHPQIFYSGERFMKFSRVARGCHSNGTFGRLPICQHVQACPERPQMMGTLE  
RSRAVASKIGHSYSLDSQPARAVGKPWPQQACTRVTELTEATGKLIRTSHIGKPHPQSFQ  
PAAATQKLRPASQQGVQMKTQGGASNPAALQIGSHPMCKSSQFKSDQSNPSTVKHSQPKPF  
HSVPSQPKSSQTKSCQSQSPQTKPSPCKSTQPKPSQPWPPQSKPSQPRPPQPKSSSTNPS  
QAKAHHSKAGQKRGGKH

>sp|Q9NXV6|CARF\_HUMAN CDKN2A-interacting protein OS=Homo sapiens GN=CDKN2AIP PE=1 SV=3

MAQEVSEYLSQNPRVAAWEALRCDETDKHWHRDRDFLLRNAGDLAPAGGAASASTDEA  
ADAESGTRNRQLQLISFSMAWANHVFLGCRYPQKVMKILSMAEGIKVTDAPTYTTRDE  
LVAKVKKRGISSNEGVEEPSKKRVEGKNSSAVEQDHAKTSAKTERASAQQENSSTCIG  
SAIKSESGNSARSSGISSQNSSTSDGDRSVSSQSSSVSSQVTTAGSGKASEAEAPDKHG  
SASFVSLKSSVNSHMTQSTDSRQSGSPKKSALLEGSSASASQSSSEIEVPLLGSSESSE  
VELPLLSSKPSSETASSGLTSKTSSEASVSSSAKNSSSSGTSLTPKSSSSTNTSLLTS  
KSTSQVAASLLASKSSSQTSGLSVSKSTSLASVSQLASKSSSQTSQSLPSKSTSQSSES  
SVKFSCKLTNEDVKQKQPFNRLYKTVAWKLAVGGFSPNVNHGELLNAAIEALKATLDV  
FFVPLKELADLPQNKSSQESIVCELRCXSVYLTGCGKSKENAKAVASREALKLFLKKKV  
VVKICKRKYRGSEIEDLVLLDEESRPVNLPPALKHPQELL

>sp|Q5VZK9|CARL1\_HUMAN F-actin-uncapping protein LRRC16A OS=Homo sapiens GN=CARMIL1 PE=1  
SV=1

MTESSDVPRELIESIKDVI GRKIKISVKKKVKLEVKGDKVENKVLVLTSCRAFLVTARI  
PTKLELTFSYLEIHGVVCSKSAQMIVETEKCSISMKMASPEDVSEVLAHIGTCLRKIFPG  
LSPVRIMKKVSMEPSERLASLQALWDSQTVAEQGPCGGFSQMYACVCDWLGFYSYREEVQW  
DVDTIYLTQDTRNLQDFSHLDHRDLIPIIAALEYNQWFTKLSSKDLKLDVCEQILR  
VVSRSNRLEELVLENAGLRDFAQKLASALAHNPNSGLHTINLAGNPLEDRGVSSLSIQF  
AKLPKGLKHLNLSKTSLSKPGVNSLSQSLSANPLTASTLVHLDLSGNVLRGDDLHMYNF  
LAQPNAIVHLDLSNTECSLDMVCGALLRGCLQYLAVLNLSRTVFSHRKGKEVPPSFKQFF  
SSSLALMHINLSGTLKSPEPLKALLGLACNHNKGVSLDLSNCELRSQGAQVLEGCTAE  
IHNITSLDISDNGLSDSLTIVWLSKNRSIQHLALGKNFNMKSKNLTPVLDNLVQMIQ  
DEESPLQSLSLADSKLKTEVTIIINALGSNTSLTKVDISGNGMGDMGAKMLAKALQINTK  
LRTVIWDKNNITAQGFQDI AVAMEKNYTLRFMPIPMYDASQALKTNPEKTEDALQKIENY  
LLRNHETRKYLQEQAYRLQGGIVTSTTQQMIDRICVKVQDHLNSLRNCGGDAIQEDLKSA  
ERLMRDAKNSTLLPNLYHVGASWAGASGLLSSPIQETLESMAGEVTRVVDEQLKALLE

SMVDAENLCPNVMKKAHIRQDLIHASTEKISIPRTFVKNVLEQSGIDILNKISEVKLT  
VASFLSDRIVDEILDALSHCHHLADHFSRRGKTLPPQESLEIELAEEKPVKRSIITVEE  
LTEIERLEDLDTMMTPKSKRSIHSRMLRPVSRAFEMEFDLKALEEVPPIHIEDPPFPS  
LRQEKRSSGFISELPPSEEGKLEHFTKLRPKRKKQQTQAAVCAANIVSQDGEQNGLMG  
RVDEGVDEFFTKKVTKMDSKKWSTRGSESHELNEGGDEKKRDSRKSSGFLNLIKSRKS  
ERPPTILMTEEPSSPKGAVRSPPVDCPRKDTKAAEHNGNSERIEEIKTPDSFEESQGEEI  
GKVERSDSKSSPQAGRRYGVQVMGSGLLAEMKAKQEKRAACAQKKLGNDVAVSQDSSSPAL  
SGVERSDGGGAVPKLHPGLPENRFLGTPEKNTKAEPKAEAGSRSSSSSTPTSPKPLLQ  
SPKPSLAARPVIPQKPRASRPDDIPDSPSSPKVALLPPVLKKVPSDKERDQSSPQPSP  
RTFSQEVSRSSWGQQAQEQKQRSSSKDGHQGSKNDSGEEAEKEFIFV

>sp|Q6F5E8|CARL2\_HUMAN Capping protein, Arp2/3 and myosin-I linker protein 2 OS=Homo sapiens GN=CARMIL2 PE=1 SV=2

MAQTPDGISCELARGEITRFLWPKEVELLLKTWLPGEQAVQNHVLALLRWAYLLHTTCLP  
LRVDCTFSYLEVQAMALQETPPQVTFELESLELVLEFPGVAALEQLAQHVAAAIAKKVFP  
RSTLGKLFRRPTASMLARLERSPPSESTPCSPCGGFLETYEALCDYNGFPFREEIQWD  
VDTIYHRQGCRHFSLGDFSHLGSRLDALSVAALSYNLWFRCLSCVDMKLSLEVSEQILHM  
MSQSSHLEELVLETCSLRGDFVRRLAQALAGHSSSGLRELSLAGNLLDRGMTALSRHLE  
RCPGALRRLSLAQTLTPRGMRALGRALATNAAFDSTLTHLDLGNPGALGASEDSGGLY  
SFLSRPNVLSFLNLAGTDTALDTRGCSVGGWMTGRADWRAGRGGLGPPAGVANSPPQL  
FAAVSRGCCTSLTHLDASRNVFSRTKSRAAPAAALQLFLSRARTLRHLGLAGCKLPPDALR  
ALLDGLALNTHLRDLHLDLSACELRSAGAQVIQDLVCDAGAVSSLDLADNGFGSDMVLV  
LAIGRSRSLRHVALGRNFNVRCKETLDDVLHRIVQLMQDDDCPLQSLVAESRLKLGASV  
LLRALATNPNTALDISGNAMGDAGAKLLAKALRVNSRLRSVVWDRNHTSALGLLDVAQA  
LEQNHSLKAMPLPLNDVAQAQRSPELTARAVHQIQACLLRNNRADPASSDHTTRLQPLG  
LVSDPSEQEVNELCQSVQEHVELLGCAGPQGEAAVRQAEDAIQANFSLSLPILYEAG  
SSPSHHWQLGQKLEGLLRQVGEVCRQDIQDFTQATLDTARSLCPQMLQGSSWREQLEGVL  
AGSRGLPELLPEQLLQDAFTRLRDMRLSITGTLAESIVAQALAGLSAARDQLVESLAQQA  
TVTMPPALPAPDGGEPSSLPEGELEGLFFPEEEEEKEKDDSPQKWPELSHGLHLVPFI  
HSAEEAEPEPELAAPGEDAEPQAGPSARGSPSPAAPGPPAGPLPRMDLPLAGQPLRHPT  
RARPRRRQHHRPPPGGPQVPPALPQEGNLSARVDEGVVEFFSKRLIQQDRLWAPEED  
PATEGGATVPVRTLKKLGTLFAFKKPRSTRGPRTDLETSPGAAPRTRKTTFGDLLRPPT  
RPSRGEELGGAEGDTSSPDAGRSRPRYTRDSKAYSMILLPAEEEATLGARPDKRRPLER  
GETELAPSFEQRVQVMLQRIGVSRGSGGAEGKRKQSKDGEIKKAGSDGDIMDSSTEAPPI  
SIKSRTHSVSADPSCRPGPGSQGPESATWKTGQQQLNAELRSRGWGQQDGPSPSPGQSP  
SPCRTSPSPDSLGLPEDPCLGPRNEDGQLRPRPLSAGRRRAVSVHEDQLQAPAERPLRLQR  
SPVLKRRPKLEAPPSPSLGSLGTEPLPPQPTESPSPERSPPSPATDQRGGGPNP

>sp|Q8ND23|CARL3\_HUMAN Capping protein, Arp2/3 and myosin-I linker protein 3 OS=Homo sapiens GN=CARMIL3 PE=2 SV=2

MAKPSVELTRELQDSIRRCLSQGAVLQQHHVKLETKPKKFEDRVLALTSWRLHLFLLKVP  
AKVESSFNVLIRAFNTLSQNQILVETERGMVSMRLPSAESVDQVTRHVSSALSKVCPGP  
GCLIRRGNADTPEGPRDTSPNSETSTSTHSCGGFSETYAALCDYNGLHCREEVQWDVD  
TIYHAEDNREFNLLDFSHLESRLALMVAALAYNQWFTKLYCKDLRLGSEVLEQVLHTLS  
KSGSLEELVLDNAGLKTDFVQKLAGVFGENGSCVLHALTSHNPIEDKGFLSLSQQLLCF  
PSGLTKLCLAKTAISPRGLQALGQTFGANPAFASSLRYLDSLKNPGLLATDEANALYSFL

AQPNALVHLDLSGTDVIDLLLGALLHGCCSHLTYLNLARNSCSHRKGREAPPFAFKQFFS  
SAYTLSHVNLSATKLPLEALRALLQGLSLNSHLSDLHDLSSCELSAGAQAALQEQLGAV  
TCVGSLLDSNGFSDLLTLVPALGKNKSLKHLFLGKNFNVKAKTLEEILHKLVLQIREE  
DCSLQSLSVADSRLKLRTSILINALGSNTCLAKVDLSGNGMEDIGAKMLSKALQINSSLR  
TILWDRNNTSALGFLDIARALESNHTLRFMSFPVSDISQAYRSAPERTEDVWQKIQWCLV  
RNNHSQTCPCQEQAFRLQQGLVTSSAEQMLQRLCGRVQEEVRALRLCPLFPVQDELLYARD  
LIKDAKNSRALFPSLYELGHVLANDGPVRQRLSEVASEVSKAVDKELQVILESMVSLTQE  
LCPVAMRVAEGHNKMLSNVAERVTVPRNFIRGALLEQAGQDIQNKLEVKLSVVTYLTSS  
IVDEILQELYHSHKSLARHLTQLRTLSDPPGCPGQGQDLSSRGRGRNHDHEETDDELGT  
NIDTMAIKKQKRCRKIRPVSAFISGSPQDMESQLGNLGIIPGWFSGLGGSQPTASGSWEG  
LSELPHTGYKL RHQTQGRPRPRTTPPGPRPSMPAPGTRQENG MATRLDEGLEDDFFSRR  
VLEESSYPRTLRTVRPGLSEAPLPPLQKKRRRGLFHFRPRPSFKGDRGPGSPTTGLLLP  
PPPPPPPTQESPPSPDPPSLGNNSSPCWSPEEESSLLPGFGGGRGPSFRRKMGTEGSEPG  
EGGPAPGTAQQPRVHGVALPGLERAKGWSFDGKREGPGPDQEGSTQAWQKRRSSDDAGPG  
SWKPPPPPPQSTKPSFSAMRRAEATWHIAEESAPNHSCQSPSPASQDGEEKEGTLPERT  
LPARNAKLQDPALAPWPPKPVAVPRGRQPPQEPGVREEAEAGDAAPGVNKPRLRLSSQQD  
QEEPEVQGPDPGRRTAPLKPKRTRRAQSCDKLEPDRRRPPDPTGTSEPSTD

>sp|Q13490|BIRC2\_HUMAN Baculoviral IAP repeat-containing protein 2 OS=Homo sapiens  
GN=BIRC2 PE=1 SV=2

MHKTASQRLFPGPSYQNIKSIMEDSTILSDWTNSNKQKMKYDFSCELYRMSTYSTFPAGV  
PVSESLARAGFYITGVNDKVKCFCCGLMLDNWKLGDSPIQKHKQLYPCSFQNLVSAS  
LGSTSKNTSPMRNSFAHSLSPTLEHSSLFSGSYSSLSNPLNSRAVEDISSRTNPYSYA  
MSTEEARFLTYHMWPLTFLSPSELARAGFYIIGPGRVACFACGGKLSNWEPKDDAMSEH  
RRHFPNCPFLENSLETLRFSISNLSMQTHAARMRTFMYPSSVPVQPEQLASAGFYIVGR  
NDDVKCFCCDGLRCWESGDDPWEHAKWFPRCEFLIRMKGQEFVDEIQGRYPHLLLEQLL  
STSDTTGEENADPPIIHFGPGESSEDAVMMNTPVVKSALEMGFNRDLVKQTVQSKILTT  
GENYKTVNDIVSALLNAEDEKREEEKEKQAEEMASDDLIRKNRMALFQQLTCVLPILD  
NLLKANVINKEHDIKQKTQIPLQARELIDTILVKGNAANIFKNCLKEIDSTLYKNLF  
VDKNMKYIPTEDVSGLSLEEQLRRLQEERTCKVCMDKEVSVVFIPCGHLVVCQECAPSLR  
KCPICRGIKGTVRTFLS

>sp|P78537|BL1S1\_HUMAN Biogenesis of lysosome-related organelles complex 1 subunit 1  
OS=Homo sapiens GN=BLOC1S1 PE=1 SV=2

MAPGSRGERSSFRSRGPGVPSPQPDVTMLSRLKEHQAKQNERKELQEKRRREAITAAT  
CLTEALVDHLNVGVAQAYMNQRKLDHEVKTLQVQAAQFAKQTGWIGMVENFNQALKEIG  
DVENWARSIELDMRTIATALEYVYKGQLQSAPS

>sp|Q6QNY0|BL1S3\_HUMAN Biogenesis of lysosome-related organelles complex 1 subunit 3  
OS=Homo sapiens GN=BLOC1S3 PE=1 SV=1

MASQGRRRRLRRPETTVVPGEATETDSERSASSSEEEELYLGPSPGTRGRPTGLRVAGEA  
AETDSEPEPEPEPTAAPRDLPLLVVQRESAEEAWGTEEAPAPAPARSLLQLRLAESQARL  
DHDVAAAVSGVYRRAGRDAALASRLAAQAAGLAAHSVRLARGDLCALAERLDIVAGC  
RLLPDIRGVPGTEPEKDPGPRA

>sp|O95696|BRD1\_HUMAN Bromodomain-containing protein 1 OS=Homo sapiens GN=BRD1 PE=1 SV=1  
MRRKGRCHRGSAARHPSSPCSVKHSPTRETLYAQARMVEIEIEGRLHRISIFDPLEII  
LEDDLTAQEMSECNSNKENSERPPVCLRTKRHKNNRVKKKNEALPSAHGTPASASALPEP

KVRIVEYSPPSAPRRPPVYYKFIEKSAEELDNEVEYDMDEEDYAWLEIVNEKRKGDCVPA  
VSQSMFEFLMDRFEKESHENQKQGEQQSLIDEDAVCCICMDGECQNSNVILFCDMCNLA  
VHQECYGVPIYIEGGWLCRHLQSRARPADCVLCPNKGGAFFKKTDDDRWGHVVCALWIPE  
VGFANTVFIPIIDGVRNIPPARWKLTCYLCKQKGVGACIQCHKANCYTAFHVTCAQKAGL  
YMKMEPVKELTGGGTTFVSRKTAYCDVHTPPGCTRRPLNIYGDVEMKNGVCRKESVKT  
RSTSKVRKKAKKAKKALAEPICAVLPTVCAPYIPQRLNRIANQVAIQKKQFVERAHSY  
LLKRLSRNGAPLLRRLQSSLSQSSQRENDDEEMKAAKEKLKYWQLRHLERARLLIE  
LLRKREKLKREQVKEVAMELRLTPLTVLLRSVLDQLQDKDPARIFAQPVSLKEVPDYL  
DHIKHPMDFATMRKRLEAQGYKNLHEFEEDFDLIIDNCMKYNARDTVFYRAAVRLRDQGG  
VVLQRARREVDSIGLEEASGMHLPERPAAAPRRPFSWEDVDRLLDPANRAHLGLEEQ  
LLDMLDLTCAMKSSGSRKRAKLLKKEIALLRNKLSSQHSQPLPTGPGLEGFEEDGAALG  
PEAGEEVLPRLETLLQPRKRSRSTCGDSEVEEESPGKRLDAGLTNGFGGARSEQEPGGGL  
GRKATPRRRCASESSISSNSPLCDSSFNAPKCGRGKPALVRRHTLEDRLSELISCIENG  
YAKAARIAAEVGGSSMWISTDAASVLEPLKVVWAKCSGYPSYPALIIDPKMPRVP  
GHTIPAPPLDVLKIGEHMTKSDKLFLVLFNDKRSWQWLPKSKMVPLGIDETIDKLKM  
MEGRNSSIRKAVRIAFDRAMNHLRVHGEPTSDLSID

>sp|075150|BRE1B\_HUMAN E3 ubiquitin-protein ligase BRE1B OS=Homo sapiens GN=RNF40 PE=1 SV=4

MSGPGNKRAAGDGGSGPPEKKLSREEKTTTTLIEPIRLGGISSTEEMDLKVLQFKNKLA  
ERLEQRQACEDELREIERIEKLEKRQATDDATLLIVNRYWAQLDETVEALLRCHESQ  
GELSSAPEAPGTQEGPTCDGTPLPEPGTSELRDPLLMQLRPPLSEPALAFVVALGAS  
SSEVELELQGRMEFSKAAVSRVVEASDRLQRRVEELCQRVYSRGDSEPLSEAAQAHT  
RELGRNRRLLQDLATQLQEKHHRISLEYSLEQDKVTSATKVLEMETTVEDLQWDIEK  
LRKREQKLNKHLAEALEQLNSGYVSGSSSGFQGGQITLSMQKFEMLNAELENQELAN  
SRMAELEKLQAEQLQGAVRTNERLKVLRSLPEEVVRETGEYRMLQAQFSLLYNESLQ  
VKTQLDEARGLLLATKNSHLRHIEHMEDELGLQKKLRTEVIQLEDTLAQVRKEYEML  
RIEFEQNLAAEQAGPINREMRHLISSLNHNHQLKGDAQRYKRKLREVQAEIGKLRAQ  
ASGSAHSTPNLGHPEDSGV SAPAPGKEEGPGVPSTPDNRKEMAPVPGTTTTTSVK  
KEELVPSEEDFQGITPGAQGPS SRGREPEARPKRELQEREGPSLGPVVASALSRAD  
REKAKVEETKRKESELLKGLRAELKKAQESQKEMKLLLDMYKSAPKEQRDKVQLMA  
AERKAKAEVDELRSRIRELEERDRRESKIIADEDALRRIRQAEEQIEHLQRKLGA  
TKQEEEALLSEMDVTGQAFEDMQEQNGRLLQQLREKDDANFKLMSERIKANQIHK  
LLREEKDELGEQVLGLKSQVDAQLLTVQKLEEKERALQGLGGVEKELTLRSQALEL  
NKRKAVEAAQLAEDLKVQLEHVQTRLREIQPCLAESRAAREKESFNLKRAQEDIS  
RLRRKLEKQRKVEVYADADEILQEEIKEYKARLTCPCNTRKKDAVLTKCFHVF  
CFECVRGRYEARQRKCPKCNAAFGAHDFHRIYIS

>sp|Q5PSV4|BRM1L\_HUMAN Breast cancer metastasis-suppressor 1-like protein OS=Homo sapiens GN=BRMS1L PE=1 SV=2

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CLDEMSNLEKQFTDLKDQLYKERLSQVDAKLQEVIAKGAPEYLEPLATLQENMQIRTKVA  
GIYRELCLSVKNKYECEIQASRQHCESEKLLLYDTVQSELEEKIRLEEDRHSIDITSE  
LWNDELQSRKKRKDPFSPDKKKPVVSGPYIVYMLQDLDILEDWTTIRKAMATLGPHRVK  
TEPPVKLEKHLHSARSEEGRLYYDGEWYIRGQTICIDKKDECPTSAVITTNHDEVWFKR  
PDGSKSKLYISQLQKGYSIKHS

>sp|Q96NH3|BROMI\_HUMAN Protein broad-minded OS=Homo sapiens GN=TBC1D32 PE=2 SV=4



MAHFSSEDQAMLQAMLRRLFQSVKEKITGAPSLECAEEILLHLEETDENFHNHYEFVKYLR  
QHIGNTLGSMIEEEMKCTSDRNQGEECGYDTVVQQVTKRTQESKEYKEMMHYLNIMIA  
VVESMINKFEEDETRNQRQKKIQKEKSHSYRTDNCSDSDSSLNQSFKCQGKLQLILDQ  
LDPGQPKEVRYEALQTLCSAPSDVLCENWTTLCEKLTVSLSDPDPVFSRILKFCAQT  
FLLSPLHMTKEIYTSIAKYLESYFLSRENHIPTLSAGVDITNPNMTRLLKKVRLLENYQK  
EAPSFWIRHPEKYMEEIVESTLSLLTVKHNSHVVSQKILDPIYFFALVDTKAVWFKKWM  
HAHYSRTTVLRLLLETKYKSLVTTAIQQCVQYFEMCKTRKADETLGHSKHCNRKQKTFYYL  
GQELQYIYFIHSLCLLGRLLIYKQGRKLFPIKLKNNKGLVSLIDLLVLFTQLIYYSPSCP  
KMTSAAHSENYSASPMVTEVLWILSDQKECAVECLYNNIVETLLQPIHNLKMGNEASPN  
CSETALIHIAGILARIASVEEGLILLLYGANMNSSEESPTGAHIIAQFSKKLLDEDISIF  
SGSEMPLPVVKAFISVCRHIYSTCEGLQVLITYNLHESIAKAWKTSLLSERIPTPVEGS  
DSVSSVSQESQNIMAWEDNLLDDLLHFAATPKGLLLLQRTGAINECVTFIFNRYAKKLQV  
SRHKKFGYGVLVTRVASTAAGGIALKKSGFINELITELWSNLEYGRDDVRVTHPRTPVD  
PIDRSCQKSFLALVNLLSYPAIYELVRNQDLPNKTEYSLREVPTCVIDIIDRLIILNSEA  
KIRSLFNYEQSHIFGLRDFIIDGLSVERNHLVLRINLVGGPLERILPPRLLEKSDNPYPW  
PMFSSYPLPNCYLSDITRNAGIKQDNLDKLLCLKISDKQTEWIENCQRQFCMMKAKP  
DIISGEALIELLEKFVLHLETSPSECYFSPVEYTATDANVKNESLSSVQQLGIKMTVRYG  
KFLSLLKDGAENDLTWVLKHCFERFLKQQQTSIKSSLLCLQGNAGHDWFVSSLFMIMLGD  
KEKTFQFLHQFSRLLTSAFLWLPRLHISSYLPNDTVESGIHPVYFCSTHYIEMLLKAELP  
LVFSAFHMSGFAPSQICLQWITQCFWNYLDWIEICHYIATCVFLGPDYQVYICIAVFKHL  
QQDILQHTQTQDLQVFLKEEALHGFRVSDYFEYMEILEQNYRTVLLRDMRNIRLQST

>sp|Q8TDC3|BRK1\_HUMAN Serine/threonine-protein kinase BRK1 OS=Homo sapiens GN=BRK1  
PE=1 SV=2

MSSGAKEGGGGSPAYHLPHPHPPQHAQYVGPYRLEKTLGKGQTGLVKLGVHCITGQKV  
AIKIVNREKLSSEVLMKVEREIAILKLIHPPHVLKLHDVYENKKYLYLVLEHVS GGELFD  
YLVKKGRLLTPKEARKFFRQIVSALDFCHSYSICHRDLKPENLLLDEKNNIRIADFGMASL  
QVGDSLLETSCGSPHYACPEVIKGEKYDGRRADMWSCGVILFALLVGALPFDDNLRQLL  
EKVKRGVFMHPHFIPDQCSSLRGMIEVEPEKRLSLEQIQKHPWYLGKHEPDPCLEPAP  
GRRVAMRSLPSNGELDPDVLESMAASLGCFRDRERLHREL RSEENQEKMIIYLLDRKER  
YPSCEDQDLPPRNDVPPRKRVDSPMLSRHGKRRPERKSMEVLSITDAGGGGSPVPTTRA  
LEMAQHSQRSRSVSGASTGLSSSPLSSPRSPVFSFSPEPGAGDEARGGGSPTSQTLP  
RGPRGGGAGEQPPPPSARSTPLPGPPGSPRSSGGTPLHSPLHTPRASPTGTPGTPPPSP  
GGGVGGAAWSRLNSIRNSFLGSPRFHRRKMVPTAEEMSSLTPESSPELAKRSWFGNFI  
SLDKEEQIFVLVKDKPLSSIKADIVHAFLIPSLSHSVLSQTSFRAEYKASGGSPVFQKP  
VRFQVDISSEGEPSPRRDGSGGGGIYSVTFTLISGPSRRFKRVVETIQAQLLSTHDQP  
SVQALADEKNGAQTRPAGAPPSRLQPPPGRPDPESLSSPRRGPPKDKKLLATNGTPLP

>sp|Q6UXE8|BTNL3\_HUMAN Butyrophilin-like protein 3 OS=Homo sapiens GN=BTNL3 PE=2 SV=2

MAFVLILVLSFYELVSGQWQVTGPGKFVQALVGEDAVFSCSLFPETSAEAMEVRFFRNQF  
HAVVHLYRDGEDWESKQMPQYRGRTEFVKDSIAGGRVSLRLKNITPSDIGYGCWFSSQI  
YDEEATWELRVAALGSLPLISIVGYVDGGIQLLCLSSGWFPQPTAKWKGPQGDLSSDSR  
ANADGYSLYDVEISIIVQENAGSILCSIHLAEQSHEVESKVLIGETFFQPSPWRLASILL  
GLLCGALCGVVMGMIIVFFKSKGKIQAELDWRKKGQAELRDARKHAVEVTLPETAHPK  
LCVSDLKTVTHRKAQEVPHSEKRFTRKSVVASQGFQAGKHWEVDVGQNVGWYVGVCRD  
DVDRGKNNVTLSPNNGYWVLRLLTTEHLYFTFNPHFISLPPSTPPTRGVFLDYEGGTISF

FNTNDQSLIYTLLTCQFEGLLRPYIQHAMYDEEKGTPIFICPVSWG

>sp|Q95971|BY55\_HUMAN CD160 antigen OS=Homo sapiens GN=CD160 PE=1 SV=1

MLLEPGRGCCALAILLAIVDIQSGGCINITSSASQEGTRLNLICTVWHKKEEAEGFVVFL  
CKDRSGDCSPETSLKQLRLKRDPGIDGVEISSQLMFTISQVTPHSGTYQCCARSQKSG  
IRLQGHFFSILFTETGNYTVTGLKQRQHLEFSHNEGLSSGFLQEKVWVMLVTSLVALQA  
L

>sp|Q13895|BYST\_HUMAN Bystin OS=Homo sapiens GN=BYSL PE=1 SV=3

MPKFKAARGVGGQEKHAPLADQILAGNAVRAGVREKRRGRGTGEAEEEEYVGPRLSRRILQ  
QARQQQEELEAEHGTGDKPAAPRETRTLGPRMPQDGSDEDEEWPTLEKAATMTAAGHH  
AEVVVDPEDERAIEFMNKNPPARRTLADI IMEKLTEKQTEVETVMSEVSGFPMPQLDPR  
VLEVYRGVREVLISKYRSGKLPAFKIIPALSNWEQILYVTEPAWTAAMYQATRIFASN  
LKERMAQRFYNLVLPRVRDDVAEYKRLNFHLYMALKKALFKPGAWFKGILIPLCESGTC  
TLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDAL  
VFHFLGFRTEKREL PVLWHQCLLTLVQRYKADLATDQKEALLELLRLQPHPQLSPEIRRE  
LQSAVPRDVEDVPITVE

>sp|Q96A19|C102A\_HUMAN Coiled-coil domain-containing protein 102A OS=Homo sapiens  
GN=CCDC102A PE=1 SV=2

MSHGSPRLAESPQLSKGSLLTILGSPSPERMGPADSLPPTPPSGTPSPGPPPALPLPPA  
PALLADGDWESREELRLRELEEARARAAQMEKTMRRWSDCTANWREKWSKVRAERNRARE  
EVRQLRQLDALTKELAGARRERQEAQGECEARGRELARLRGARGVADQTRDGPEPEAER  
EPVRDVGSRPPGSGELELVESLLKSMPEESEDCEARS LGAGGPRGSSGRQERSRLPWE  
DTAATEEEASKLTALRLRLDESQVLLKEREDKLALSRNIEKLEGELSQWKIKYEELSKT  
KQEMLKQLSILKEAHQDELGRMSDELDELGARSSMDRKMAELRGEMERLQAENAAEWGR  
RERLETEKLGLERENKKLRAQVGDLEEALARRRRQTASALDCDLRASQAALFEKNKELAD  
LKHVHGKLLKKQFQEKVAELAHANRRVEQHEAEVKKLRLRVEELKKELAQAEDDELDEAHNQ  
ARKLQRSLEQTEQSENQVQLEHLQSRRLRRQQNAPLFGKIRSARFGTEEAEDGTSDDL  
EDEDLQIQVA

>sp|Q99622|C10\_HUMAN Protein C10 OS=Homo sapiens GN=C12orf57 PE=1 SV=1

MASASTQPAALSAEQAKVVLAEVIQAFSAPENAVRMDEARDNACNDMGKMLQFVLPVATQ  
IQQEVIKAYGFSCDGEGLK FARLVKSYEAQDPEIASLSGKLKALFLPPMTLPPHGAAG  
GSVAAS

>sp|Q3MJ40|C144B\_HUMAN Coiled-coil domain-containing protein 144B OS=Homo sapiens  
GN=CCDC144B PE=2 SV=1

MASWGGEKRGGAEGSPKLAVYATRKRTRSVRSQEDQWYLGYPGDQWSSGFSYSWWKNSVGS  
ESKHGEGALDQPQHDVRLDELGELHRAARSGDVPGEHV LAPGDTGVDKRD RKKS IQQLV  
PEYKEKQTPESLPQNNPDWHPTNLTLSDETCQRSKNLKVGDKSPSVSPSPENQSATKE  
LGQMNLT EREKMDTG VVLLSGNDTLHDLCSQLPENKESKEAEQDLELTSEEEQERLKG  
ENKQPQKTSQEP EMAKDCDREDIPIYPVLP HVQKSEEMWIEQGKLEWKNQLKLVINELKQ  
RFGEIYEKYKIPACPEEEPLLDNSTRGTDVKDIPFNL TNNIPGCEEDASEISVS VVFET  
FPEQKEPSLKNIIHPYHYPSGSQEHVCSSSKLHLHENKLDNDNKL GIGHIFSTDNN  
FHNDASTKKARNPEVVTVMKEDQEFDLQMTKNMNQNSDSGSTNNYSLKPKLENLSSLP  
PDSDRTSEVYLHEELQQDMQKFKEVNTLEEEFLALKKENVQLHKEVEEEME KHRSNSTE  
LSGTLTDGTTVGNDDDL NQQIPRKENEEH DRPADKTANEKNKVKNQIYPEADFADSM EP  
SEIASDCELSHSVYENFMLLIEQLRMEYKDSASLPRIQDTFCLCEHLLKLKNNHCDQLT

VKLQKQMENMVSVLQNELSEKTKLQLELQKIEWEKELYDLRLALKQENGRKEMPICII  
KIVNS

>sp|Q6NUI1|C144L\_HUMAN Putative coiled-coil domain-containing protein 144 N-terminal-like  
OS=Homo sapiens GN=CCDC144NL PE=5 SV=1

MASWGGEKRGAGGSPKPAVYATRKTSPVGSQEDQWYLDYPGDQWSLGFSYSWWKNSVGS  
ESKHGEGALDQLQHDVRLLEDLGELHRAARSGDVPGEHVLPAGDTGVDKDRKKSIIQQLV  
PEYKEKQTPESLPQNNPAAPSQAEGGEGVACGTVEQMTWLCSLPHAVGGGDGDHSSTG  
AVGGHPRGPGEYCHLHEQRVHHHIFARGKRKGNHVSNNVVR

>sp|Q9Y4F5|C170B\_HUMAN Centrosomal protein of 170 kDa protein B OS=Homo sapiens GN=CEP170B  
PE=1 SV=4

MSATSWFLVSSSGARHRLPRELIFVGREECELMQLSRSVDKQHAVINYDQDRDEHWVKDL  
GSLNGTFVNDMRIPDQKYVTLKLNVDIRFGYDSNMYVLERVQHRVPPEALKHEKYTSQLQ  
VSVKGLAPKRSEALPEHTPYCEASNPRPEKGDRRPGTEAASYRTPLYGQPSWWGEDDGST  
LPDAQRQGEYPYPERKGPVQQDGELHGFRAPEPQGCSFRREPSYFEIPTKETPQPSQPP  
EVPAAHEMPTKDAEAGGGGAAPVVQSHASFTIEFDCCSPGKMKIKDHITKFSLRQRRPPGK  
EATPGEMVSAETKVADWLQNDPSLLHRVGPDDRHSKSDLPVHTRTLKGHKHEDGTQS  
DSEDPLAKAASAAGVPLEASGEQVRLQRQIKRDPQELLHNQQAQFVIEFFDEDTPRKKRSQ  
SFTHSPPSGDPKADKRRGPTPADRDPSVPAPVQAGGRSSGPQRAGSLKREKTEERLGSPS  
PASRTPARPFGSVGRRSRLAQDFMAQCLRESSPAARPSPEKVPPVLPAPLTPHGTSPVGP  
PTPPPAPTDPQLTKARKQEEDSLSDAGTYTIEAEAQDTEVEEARKMIDQVFGVLESPEL  
SRASSATFRPVIRGDRDESDDGGAQRMALLQEFASRPLGAAPQAEHQGLPVPGPSGGQK  
WVSRWASLADSYSDPGLTEDGLGRRGGEPEGSLPVRMRRRLPQLPSERADSPAGPESSRR  
SGGPPELDSEQPSRLFGQEELDPDSLSDASGSDGGRGPEPGVEPQDSRRRSPQEGPTWS  
RGRRSPRAPGEPTPASFFIGDQNGDAVLSRKPLAAPGDGEGLGQTAQPSPPARDGVYVSA  
NGRMVILRLPGRSPEPDGPAPAFRLRQESFTKEPASGPPAPGKPPHISHPDLLQDLAATRA  
ARMDFHSQDTHLILKETETALALEARLLSNSVDAECEGGSTPRPPEDALSGDSVDVTAS  
TVSLRSGKSGPSPTTPQPLRAQKEMSPSPAAQDPGGTALVSAREQSSERQHHPLGPTDM  
GRGEPVRRSAIRRGHRPRGSLDWPSEERGPVLAHLPSDVMASNHETPEATGAGRLGSRR  
KPAAPPPSPAAREEQSRSSASSQKGPQALTRNSLSTPRPTRASRLRRARLGASDTEAA  
DGERGSLGNPEPVGPRPAAEQAKKLSRLDILAMPKRAGSFTGTSDPEAAPARTSFSGRSV  
ELCCASRKPTMAEARAVSRKAANTATTTGPRQPFSSRARSARSARYTSNTRRRQQGSDYTST  
SEEEYGSRHGSPKHTRSHTSTATQTPRAGSSSRARSRAPGRDTHDDEEEDPDYGFIVQT  
AEIAEIALRSQTLVKDVAILAQEIHDVAGDGTLSSEPAAHSASLSNMPSTPASTISARE  
ELVQRIPEASLNQKVPVPGSLNSRDFDQNMNDSCEDALANKTRPRNREEVIFDNLMLNPV  
SQLSQAIARENTEHLAEKMKILFQNTGRAWEDLEARINAENEVPILKTSNKEISSILKELR  
RVQKQLEVINAIVDPSGSLDLLTGNRSLASSAQPLGKGRVAAQSPSPASAEALLPALP  
LRNFPQQRASCPPSLPDPTFLPDARFLI

>sp|Q96L14|C170L\_HUMAN Cep170-like protein OS=Homo sapiens GN=CEP170P1 PE=5 SV=2

MPTSSSFKHRIKEQEDYIRDWTAHREEIARISQDLALIAREINDVAGEIDSVTSSGTAPS  
TTLVDRVFDESLNFQKIPPLVHSKTPEGNNGRSGDPRPQAAEPPDHLTITRRRTWSRDEV  
MGDNLLSSVFQFSKKIRQSIDKTAGKIRILFKDKDRNWDDIESKLRAESEVPVKTSSM  
EISSILQELKRVEKQLQAINAMIDPDGTLEALNNMGFPSAMLPSPPKQKSSPVNNHHSPG  
QTPTLGQPEARALHPAAVSAAEFENAEEADFSIHFNRVNPDGEEEDVTVHK

>sp|Q8N1F1|C1AS1\_HUMAN Putative uncharacterized protein LRRC75A-AS1, mitochondrial OS=Homo sapiens GN=LRRC75A-AS1 PE=5 SV=1

MFPGSLSRGRRAAVEMAWLPGSCARVAFAAGAAARYWTAWQGSAGPNPAAVAEAHGSFLC  
GRATSARAWSLRPGPGSPAHSAGGVQTRENWIAYPLQSAEDGVATRLQIREESASCLAAE  
YWSQEPAMRF

>sp|Q96EU7|C1GLC\_HUMAN C1GALT1-specific chaperone 1 OS=Homo sapiens GN=C1GALT1C1 PE=1 SV=1

MLSESSSFLKGVMLGSIFCALITMLGHIRIGHGNRMHHHEHHHLQAPNKEDILKISEDER  
MELSKSFRVYCIILVKPKDVSLLAAVKETWTKHCDKAEFFSSENVKVFESINMDTNDMWL  
MMRKAYKYAFDKYRDQYNWFFLARPTTFAI IENLKYFLLKKDPSQPFYLGHITKSGDLEY  
VGMEGGIVLSVESMKRLNSLLNIPEKCEPQGGMIWKISEDKQLAVCLKYAGVFAENAEDA  
DGKDVFNKTSVGLSIKEAMTYHPNQVVEGCCSDMAVTFNGLTPNQMHVMMYGVYRLRAFG  
HIFNDALVFLPPNGSDND

>sp|P02747|C1QC\_HUMAN Complement C1q subcomponent subunit C OS=Homo sapiens GN=C1QC PE=1 SV=3

MDVGPSSPLPHLGLKLLLLLLLLPLRGQANTGCYGI PGMPGLPGAPGKGDYDGLPGPKGEP  
GIPAIPGIRGPKGQKGEPLPGHPGKNGPMGPPGMPGVPGMPGIPGEPGEEGRYKQKFQS  
VFTVTRQTHQPPAPNSLIRFNAVL TNPQGDYDTSTGKFTCKVPGLYFVYHASHTANLCV  
LLYRSGVKVVTFCGHTSKTNQVNSGGVLLRLQVGEEVWLAVNDYYDMVGIQGSDSVFSGF  
LLFPD

>sp|Q9NPY3|C1QR1\_HUMAN Complement component C1q receptor OS=Homo sapiens GN=CD93 PE=1 SV=3

MATSMGLLLLLLLLLTQPGAGTGADTEAVVCVGTACYTAHSGKLSAAEAQNHCNQNGGNL  
ATVKSKEEAQHVRVLAQLLRREAALTARMSKFWIGLQREK GKCLDPSLPLKGFSWVGGG  
EDTPYSNWHKELRNSCISKRCVSLLLDLSQPLLPSRLPKWSEGPCGSPGSPGSNIEGFVC  
KFSFKGMCRLALGGPGQVTTYTTFQTTSSSLEAVPFASAANVACGEGDKDETQSHYFLC  
KEKAPDVFDWGSSGPLCVSPKYGCNFNNGGCHQDCFEGGDGSFLCGCRPGFRLLDDLVT  
ASRNPCCSSSPCRGGATCVLGPHGKNYTCRCPQGYQLDSSQLDCVDVDECQDSPCAQECVN  
TPGGFRCECWVGYEPGGPGEGACQDVDECALGRSPCAQGCTNTDGSFHCSCEEGYVLAGE  
DGTQCQDVDECVPGGPLCDSL CFNTQGSFHCGCLPGWVLAPNGV SCTMGPVSLGPPSGP  
PDEEDKGEKEGSTVPRAATASPTRGPEGTPKATPTTSRPSLSSDAPITSAPLKMLAPSGS  
PGVWREPSIHHATAASGPQEPAGGDSSVATQNNDDGTGQKLLLFYILGTVVAILLLLALA  
LGLLVYRKRRAKREEKKEKKPQNAADSYSWVPERAESRAMENQYSPTPGTDC

>sp|075973|C1QRF\_HUMAN C1q-related factor OS=Homo sapiens GN=C1QL1 PE=1 SV=1

MLLVLVVLIPLVLSGGPEGHYEMLGTCRMVCDPYPARGPAGARTDGGDALSEQSGAPP  
PSTLVQGPQGPKPRTGKPGPPGPGDPGPPGVPVGPGEKGEKPGKPPGLPGAGGSGAIS  
TATYTTVPRVAFYAGLKNPHEGYEVLKFDDVVTNLGNNDYDASGKFTCNIPGTFFTYHV  
LMRGGDGTSMWADLCKNQVRASATAQDADQNYDYASNSVILHLDAGDEVFIKLDGGKAH  
GGNSNKYSTFSGFIIYSD

>sp|B2RNN3|C1T9B\_HUMAN Complement C1q and tumor necrosis factor-related protein 9B OS=Homo sapiens GN=C1QTNF9B PE=1 SV=1

MRIWWLLLAIEICTGNINSQDTCRQGHPGIPGNPGHNLPGRDGRDGA KGDKGDAGEPGC  
PGSPGKDGTSGEKGERGADGKVEAKGIKGDQGSRGSPGKHGPKGLAGPMGEKGLRGETGP  
QGQKGNKGDVGPTGPEGPRGNIGPLGPTGLPGMPGPIGKPGPKGEAGPTGPQGEVGRGI

RGWKGDRGEKGIGETLVLPKSAFTVGLTVLSKFPSSDVPIKFDKILYNEFNHYDTAVGK  
FTCHIAGVYYFTYHITVFSRNVQVSLVKNVKILHTRDAYVSSSEDQASGSIVLQLKLGDE  
MWLQVTGGERFNGLFADEDDDTFTGFLLFSSQ

>sp|Q4G0S4|C27C1\_HUMAN Cytochrome P450 27C1 OS=Homo sapiens GN=CYP27C1 PE=2 SV=2

MRSVLRQRILKPKDVAIYSGEVNQVIADLIKRIYLLRSQAEDGETVTNVNDLFFKYSMEG  
VATILYESRLGCLENSIPQLTVEYIEALELMFSMFKTSMYAGAIPRWLRPFIPKPWREFC  
RSWDGLFKFSQIHVDNKLRLDIQYQMGRRRVSGGLTYLFLSQALTLQEIYANVTEMLLA  
GVDTSFTLSWTVYLLARHPEVQQTIVYREIVKNLGERHVPTAADVPKVPLVRALLKETLR  
LFPVLPNGRVTQEDLVIGGYLIPKGTQLALCHYATSYQDENFPRAKEFRPERWLRKGDL  
DRVDNFGSIPFGHGVRSICGRRIAELEIHLVVIQLQHFEIKTSSQTNAVHAKTHGLLTP  
GGPIHVRFVNRK

>sp|A6NLJ0|C2C4B\_HUMAN C2 calcium-dependent domain-containing protein 4B OS=Homo sapiens  
GN=C2CD4B PE=2 SV=1

MRLLEKLCSSAAGSSAPKPAFAKVLTPNRIPEFCIPPRLPAPCTLESPIRAAAVPRRCAA  
ESDLWPRAADEDAGRTDWDPRSQAALSLPHLPRVRTTYGFCALLESPTHRRKESLLGGP  
PAPRPAHSCGGGGPDAPLGTLCGPRGPGPATPAAPGGPRLPDALAAGPRRCRLLRVP  
DGLLSRALRAGSRRLARVRSVSSGNEDEERRAGSESPARAPSSSPLSSRAPLPERLEAK  
GTVALGRAGDALRLAAEYCPGTRRLRLRLRAESLFGGAPGPRAVRCRLSLVLRPPGTAR  
WQCSAVVGRSRKASFDDFCFDGLSEDEVRLAVRVKARDEGRDRGRLLGQGELSLGA  
LLLL

>sp|Q9BRT7|CA097\_HUMAN Putative uncharacterized protein encoded by LINC00467 OS=Homo  
sapiens GN=LINC00467 PE=5 SV=1

MDKKSTHRNPEDARAGKYEGKHKKRKRKQNNQHRSRHRSVTSFSSDDPMFPSSSSSSS  
GSQTDSSIEDAAKGKIKKKRREKTNKWEKRKDKI

>sp|Q3KP66|CA106\_HUMAN Uncharacterized protein Clorf106 OS=Homo sapiens GN=Clorf106 PE=2  
SV=2

MLQMPKLNEIPPGRAGRREARGEGRWPGQTGPEARLEWRAQGQAGGARAPWDSWGSSRL  
PTQPGPGWSRCPPSLLCALSFQKSTMESKDEVSDDTSGIILQSGPDSVPSPMKELTHAVH  
KQQRALLEARLEACLEELRRLCLREAELTGTLPAEYPLKPGEKAPKVRRIIGAAYKLDDWA  
LHREDPLSSLERQLALQLQITEAARRLCLEENLSRQARRQRKHSMLQEEKKLQELQRCLV  
ERRRNSEPPPAALPLGRELSASDDSSLSDDLLEEEESQVPKPPESPAPPSRPLPPQT  
LEGLQPTGPEAGSPERAPVQNSPWKETSLDHPYEKPRKSSEPWSESSPATTPQDGPSAS  
SLWLLEPASYHVVPPIRGVPGWQGRTSAPATPEIQGRRGQSQSLRVDSFRAGPEGRGRSA  
FPRRRPTHYTVTPDSCFPATKPLPHAACHSCSEDSGSDVSSISHPTSPGSSSPDISFL  
QPLSPPKTHRHRGAWVPAGSRELVAHHPKLLPPGYFPAGRYVVVAESPLPPGEWELRRA  
APGPAYEEEGTPLRYQRLVPSRSRIVRTPSLKDSPAGRGLSKAAVSEELKWWHERARLRS  
TRPHSLDRQGAFRVRSPLPLGREGFGRALGPRAQVPTVCVLRRSPDGAPVQVFVPEKGEII  
SQV

>sp|Q5T0L3|CA111\_HUMAN Uncharacterized protein Clorf111 OS=Homo sapiens GN=Clorf111 PE=1  
SV=3

MENFSLLSISGPISSSALSAPFDIMFSRATSLPDIAKTAVPTEASSPAQALPPQYQSII  
VRQGIQNTALSPDCSLGDTQHGEKLRRNCTIYRPWFSPYSYFVCADKESQLEAYDFPEVQ  
QDEGKWDNCLSEDMAENICSSSSSPENTCPREATKKSRLGLDSITSQDILMASRWHPAQQ  
NGYKCVACCRMYPTLDFLKSHIKRGFREGFSCKVYYRKLKALWSKEQKARLGDRLLSSGSC

QAFNSPAEHLRQIGGEAYLCL

>sp|Q6ZSJ8|CA122\_HUMAN Uncharacterized protein Clorf122 OS=Homo sapiens GN=Clorf122 PE=4 SV=2

MEWGP GSDWSRGEAAGVDRGKAGLGLGGRPPPQPPREERAQQLLDAVEQRQRQLLDTIAA  
CEEMLRQLGRRRPEPAGGGNVSAKPGAPPQPAVSARGGFPKDAGDGA AEP

>sp|Q5JVX7|CA141\_HUMAN Uncharacterized protein Clorf141 OS=Homo sapiens GN=Clorf141 PE=2 SV=1

MAEKILEKLDVLDKQAEIILARRTKINRLQSEGRKTTMAIPLTFDFQLEFEEALATSASK  
AISKIKEDKSCSITKSKMHVSFKCEPEPRKSNFEKSNLRPFFIQTNVKNKESESTAQIEK  
KPRKPLDSVGLLEGDRNKRKKSQPMNDFNIKENKSVRNYQLSKYRSVRKKSLLPLCFEDE  
LKNPHAKIVNVSPTKTVTSHMEQKDTNP IIFHDTEYVRMLLTKNRFSHPLENENIYPH  
KRTNFILERNCEILKSIIGNQSISLFPKQKTMPTVQRKDIQIPMSFKAGHTTVDDKLKKK  
TNKQTLNRSWNTLYNFSQNFSSLTQKQFVG YLDKAVIHEMSAQTGKFERMFSAGKPTSIP  
TSSALPVKCYSKPFKYIYELNNVTPLDNLNLSNEILNAS

>sp|Q5VVC0|CA146\_HUMAN Uncharacterized protein Clorf146 OS=Homo sapiens GN=Clorf146 PE=2 SV=1

MAESGKEKIKWTTTTIISSSLKSYEVATALENRSHKVRYSDSVENGSIIFSLSGVAFLLM  
DTKECLLSTEEIFLAKIEKFINIHQNSFLVLSAALHGPEEWKLMFRIQQRFLGCNLRILP  
VHNTVNAINLMCTIAKTTSKPYIDSICYRMITAKAYII EQSPVWKT LQKIKLNSDSVNPN

>sp|Q5SNV9|CA167\_HUMAN Uncharacterized protein Clorf167 OS=Homo sapiens GN=Clorf167 PE=2 SV=2

MTRMSCPWGSYQWEPGACPAAPRGIGGDMAGGIPDVRGLQEALGAGRSQEEARLVEEA  
QTPVMLPQDSGQVVEEVPGLMAKRM SLILHVQKLPWDHVPCLRRTRQNLYQDVGGHAHG  
SGLGGAKRGAARSALRRPLPPATCRPAGIVSGPSPRLDSNPTGAHLIKQTRPLTVEWTKD  
TPVPEPEMELRSDASHKENVSPKPAALPKPGKRLKQRRFRRLSLGIGLSGRHDQWVPGCQVE  
RGGPAATPSPGAVLDQEP CRVQTNLASPGPRLGLALKD TTGQLVNSSFQQSNLQSLARR  
RQ GKAREFAIQSNLSINETSSPHLCPEPGGSSGPHKLPWG PLLSQEPLARPSSCLRQSG  
LPAPGTPSGDFRPT EAFAPLDGHTQPGLRSWGLGSWRSRLVGEPLTLEDLAVPSQNQTQ  
APSRAAVHQLLASVHCLAQEAA RLRCQAPQEPPAWGVSPKQKGEAGAPRERVHREEERTA  
FHLSDTVPASSASKNKAQNITAPESEAICWQLLSRCFRSWRHLVKRQREPAAAVALGRW  
QLLRKCLQALWLREAQLEAAWQYTKVLLVRSFREVSGLQVGPGRVKQCPGSLREEETA  
QRLLSHPRQRTDSRHERVQILQALQLAVFFLWCQKKRARQERETLRKATRATQRTGSFP  
QAWHSTAAGVAWVAPLSPQHRAWLCRCFGAWQQFVQRGSRYRDHLADRRTGTLRKCLEQ  
WVRMKQLRESDGAKVTQLSLCRQKAGREAVYTAGPGACGLGAVGQAQGGQE QGRGSLQDA  
CWT LALCWALLLWKMR LFQRQWANSFFQGLQQRMLQRSLRWWHLRALGPDATSSCTKTPS  
ALEPLSSSTLQDSLEKVPRAPTL PDTLQGSLLWAAGQRQQGQCLLLWQARAQQFQGTARW  
YQHTRQRRIFLSWSRWATAQWAWRELASHRAWDR TCRAVLGLWRQRLLSRLVEWWAQR  
GWLARDALCHWHSCWQGGQFLHEKCQTWVQVHLQGLQKVFRSWQAAAHRCTVTRPE  
QLLLQSYFQAWCEVVRDTGVLRAQHQA FQDGLRRRALGAVFATWREAQEV AAGAQEQRVA  
QASLARWRSCGQQGQEDGQQKKARAPQAFPAPVPAPGMHHEAQQQAGESAGAAQAQCWTW  
CWALWVHESCRGQVSRAHASWKPRAWVLEASVQSAVRGGVQRAILTQLRPAELRRFLRTV  
QLRVRLGLPGAGKTRSCWTQATELVPPAPSLQCSLGGRRKPRGTAWAQR CREHSLCPAFQ  
LWPQWPGQSSWVPLPLWTRDQGPRAHSSPEPRACKAQSKAHKRRLRILEKQAQAHGSAL  
LLALKGHDALGHQEEVPAAPVPRGTASRAAGFPAGQVPGSGMAALGGCPRGRAAGADPAQ

GVAPEMGLADVVAADPATASGSAVTAAGRWAFKKWHQRLAARSPRRGAASSPRPWSKPGP  
KGPESGQEAARAPRGWGLGAEHGAQLQL

>sp|Q9NZU7|CABP1\_HUMAN Calcium-binding protein 1 OS=Homo sapiens GN=CABP1 PE=1 SV=5

MGGGDGAAFKRPGDGARLQRLVGLGSRREPRSLPAGGPAPRRTAPPPPGHASAGPAAMSS  
HIAKSESKTSLLKAAAAASGGSRAPRHGPARDPGLPSRRLPGSCPATPQSSGDPSSRRP  
LCRPAPREEGARGSQRVLPQAHCPRREALPAAASRPSPSSPLPPARGRDGEERGLSPALG  
LRGSLRARGRGDSVPAASEADPFLHRLRPLMSSAFGQDRSLRPEEIEELREAFREFDKD  
KDGYNCRDLGNCMRMTGYMPTMELIELSQQINMNLGGHVDFDDFVELMGPKLLAETAD  
MIGVKELRDAFREFDTNGDGEISTSELREAMRKLLGHQVGHRIIEEIIIRDVDLNGDGRVD  
FEFVRMSR

>sp|Q9BXU9|CABP8\_HUMAN Calcium-binding protein 8 OS=Homo sapiens GN=CALN1 PE=2 SV=1

MPFHHVTAGLLYKGYLNRSLSAGSDSEQLANISVEELDEIREAFRLDRDGNFISKQE  
LGMAMRSLGYMPSEVELAIIMQRDMDGDGQVDFDEFMTILGPKLVSSEGRDGLGNTID  
SIFWQFDMQRITLLEELKHILYHAFRDHLTMKDIENTIIINEESLNETSGNCQTEFEGVHS  
QKQNRQTCVRKSLICAFAMAFIISVMLIAANQILRSGME

>sp|Q96KC9|CABS1\_HUMAN Calcium-binding and spermatid-specific protein 1 OS=Homo sapiens  
GN=CABS1 PE=2 SV=3

MAEDGLPKIYSHPTESSKTPTAATIFFGADNAIPKSETTITSEGDHVTSVNEYMLESDF  
STTTDNKLTAKKEKLKSEDDMGTDFIKSTTHLQKEITSLTGTNSITRDSITEHMPVKI  
GNISSPVTTVSLIDFSTDIKEDILLATIDTGDAEISITSEVSGTLKDSSAGVADAPAFP  
RKKDEADMSNYNSSIKSNVPADEAVQVTDSTIPEAEIPPAPEESFTTIPDITALEEEKIT  
EIDLSVLEDDTSAVATLTDSEKFITVFELTTSAEKDKDKREDTLLTDEETTEGASIWME  
RDTANAEETHSVLLTAVESRYDFVVPASIAIATNLVEESSTEEDLSETDNTETVPKITEPFS  
GTTSVLDTPDYKEDTSTTETDIFELLKEEPDEFMI

>sp|043497|CAC1G\_HUMAN Voltage-dependent T-type calcium channel subunit alpha-1G OS=Homo  
sapiens GN=CACNA1G PE=1 SV=3

MDEEDGAGAEESGQPRSFMRNLDSGAGGRPGPSAEKDPGSADSEAEGLPYPALAPVV  
FFYLSQDSRPRSWCLRTVCNPWFERISMLVILLNCVTLMFRPCEDIACDSQRCRILQAF  
DDFIFAFFAVEMVVKMVALGIFGKKCYLGDWNRLDFFIVIAGMLEYSLDLQNVSFSAVR  
TVRVLRLRAINRVPSMRILVTLLDLTLPMLGNVLLLCFFVFFIFGIVGVQLWAGLLRNR  
CFLPENFSLPLSDVLERYYYQTENEDESPFICSQPRENGMRSCRSVPTLRGDGGGGPPCGL  
DYEAYNSSNTTCVNWNYTNCASAGEHNPFGAINFDNIGYAWIAIFQVITLEGWVDIM  
YFVMDAHSFYNFYIFILLIIVGSFFMINLCLVVIATQFSETKQRESQLMREQVRVFLSNA  
STLASFSEPGSCYEELLKYLVIILKAARRLAQVSRAAGVRVGLLSSPAPLGGQETQPSS  
SCSRSHRRLSVHHLVHHHHHHHHYHLGNGTLRAPRASPEIQDRDANGSRRLMLPPPSTP  
ALSGAPPGAESVHSFYHADCHLEPVRCQAPPPRSPSEASGRTVGSGKVYPTVHTSPPPE  
TLKEKALVEVAASSGPPTLTSLNIPPGPYSSMHKLETTQSTGACQSSCKISSPCLKADSG  
ACGPDSCPYCARAGAGEVELADREMPDSDSEAVYEFTQDAQHSDLRDPHSRRQRS LGPDA  
EPSSVLAFWRLICDTRKIVDSKYFGRGIMIAILVNTLSMGIEYHEQPEELTNALEISNI  
VFTSLFALEMLLKLIVYGPFGYIKNPYNIFDGVIVVISVWEIVGQQGGGLSVLRFTFRLMR  
VLKLVRFPLALQRQLVVLTKMDNVATFCMLLMLFIFIFSILGMHLFGCKFASERDGDTL  
PDRKNFDSLLWAIIVTFQILTQEDWNKVLYNGMASTSSWAALYFIALMTFGNYVLFNLLV  
AILVEGFQAEISKREDASGLSCTQLPVDSQGGDANKSESEPDFFSPSLDGDGDRKKCL  
ALVSLGEHPELRKSLPLPLIHTAATPMSLPKSTSTGLGEALGPASRRTSSSGSAEPGAA

HEMKSPPSARSSPHSPWSAASSWTSRRSSRNSLGRAPSLKRRSPSGERRSLLSGEGQESQ  
DEEESSEEEERASPAGSDHRHRGSLEREAKSSFDPDTLQVPGLHRTASGRGSASEHQDCN  
GKSASGRLARALRPDDPPLDGDADDEGNLSKGERVRAWIRARLPACCLERDSWSAYIFP  
PQSRFRLLCHRIITHKMFHDHVLVLIIFLNCITIAMERPKIDPHSAERIFLTLSNYIFTAV  
FLAEMTVKVVALGWCFCGEQAYLRSSWNVLDGLLVLSVIDILVSMVSDSGTKILGMLRVL  
RLRLTLRPLRVISRAQGLKLVVETLMSSLKPIGNIVVICCAFFIIFGILGVQLFKGKFFV  
CQGEDTRNITNKSDCAEASYRVRHKYNFDNLGQALMSLFLVASKDGVIMYDGLDAVG  
VDQQPIMNHNPMWLLYFISFLLIVAFFVLNMFVGVVVENFHKCRQHQEEEEARRREEKRL  
RRLEKKRRNLMLDDVIASGSSASAASEAQCKPYSDYSRFRLLVHHLCTSHYLDLFTGV  
IGLNVVTMAMEHYQQPILDEALKICNYIFTVIFVLESVFKLVAFGFRFFQDRWNQLDL  
AIVLLSIMGITLEEIEVNASLPINPTIIRIMRVLRIARVLKLLKMAVGMRALLDTVMQAL  
PQVGNLGLLFMLFFIFAALGVELFGDLECDETHPCEGLGRHATFRNFGMAFLTFRVST  
GDNWNGIMKDTLRDCDQESTCYNTVISPIYFVSFVLTAQFVLNVVIAVLMKHLEESNKE  
AKEEAELEAELEMKTLSPQPHSPLGSPFLWPGVEGPDSPDPSKPGALHPAAHARSASH  
FSLEHPTDRQLFDTISLLIQGSLEWELKLMDLAGPGGQPSAFPSAPSLGGSDPQIPLAE  
MEALSLTSEIVSEPSCSLALTDDSLPDDMHTLLLSALESNMQPHPTELPGPDLLTVRKSG  
VSRTHSLPNDSYMCRHGSTAEGPLGHRGWGLPKAQSGSVLSVHSQPADTSYILQLPKDAP  
HLLQPHSAPTWTGIPKLPPPGRSPLAQRPLRRQAAIRTDSDVQGLGSREDLLAEVSGPS  
PPLARAYSFWGQSSTQAQQHSRSHSKISKHMTPPAPCPGPEPNWGKPPETRSSLELDTE  
LSWISGDLPPGGQEPPSPRDLKKCYSVEAQSCQRRPTSWLDEQRRHSIAVSCLDSGSQ  
PHLGTDPNLSGGQPLGGPGSRPKKLSPPSITIDPPESQGPRTPPSPGICLRRRAPSSDS  
KDPLASGPPDSMAASPSPKKDVLSSLSGLSSDPADLDP

>sp|Q08289|CACB2\_HUMAN Voltage-dependent L-type calcium channel subunit beta-2 OS=Homo sapiens GN=CACNB2 PE=1 SV=3

MVQRDMSPPTAAAAVAQEIQMELLENAVAGALGAAQSYGKGARRKNRFGKSDGSTS  
SDTTSNSFVRQGSADSYTSRPSDSVSLIEDREAVRREAERQAQAQLEKAKTKPVAFVR  
TNVSYSAAHEDDVPVPGMAISFEAKDFLHVKEKFNNDWWIGRLVKEGCEIGFIPSPVKLE  
NMRLQHEQRAKQKGKYSSKSGGNSSSLGDIVPSSRKSTPPSSAIDIDATGLDAEENDIP  
ANHRSPKPSANSVTSPhSKEKRMFFFKTEHTPPYDVVPSMRPVVLGPSLKGYEVTMM  
QKALFDLKHREGRISITRVTADISLAKRSVLNNPSKHAIERSNTRSSLAEVQSEIER  
IFELARTLQLVLDADTINHPAQLSKTSLAPIIVYVKISSPKVLQRLIKSRGKSQAKHLN  
VQMAADKLAQCPELFDVILDENQLEDACEHLADYLEAYWKATHPPSSSLPNPLSRTL  
ATSSLPLSPTLASNSQGSQGDQRTDRSAPIRSASQAEEEPSVEPVKKSQHRSSSSAPHHN  
HRSGTSRGLSRQETFDSETQESRDSAYVEPKEDYSHDHDHYASHRDHNHRDETHGSSDH  
RHRESRHRSDVDREQDHNECNKQRSRHKSKDRYCEKDGEVISKKRNEAGEWNRDVYIRQ

>sp|075493|CAH11\_HUMAN Carbonic anhydrase-related protein 11 OS=Homo sapiens GN=CA11 PE=1 SV=2

MGAAARLSAPRALVLWAALGAAAHIGPAPDPEDWWSYKDNLQGNFVPGPPFWGLVNAAWS  
LCAVGKRQSPVDVELKRVLYDPFLPPLRLSTGGKELRGTYNTGRHVSFLPAPRPVVNV  
GGPLLYSHRSELRLFGARDGAGSEHQINHQGFSAEVQLIHFNQELYGNFSAASRGPNG  
LAILSLFVNVASTSNPFLSRLNLRDTITRISYKNDAYFLQDLSLELLFPESFGFITYQGS  
LSTPPCSETVTWILIDRALNITSLQMHSRLLSQNPPSQIFQSLSGNSRPLQLAHRALR  
GNRDPHRHPERRCRGPNYRLHVDGVPHGR

>sp|043570|CAH12\_HUMAN Carbonic anhydrase 12 OS=Homo sapiens GN=CA12 PE=1 SV=1



MPRRSLHAAVLLLVILKEQPSSPAPVNGSKWTFGPDGENSWSKYPSCGGLLQSPIDL  
HSDILQYDASLTPLFQGYNLSANKQFLLTNGHSVKLNLPMDHIQGLQSRYSATQLHL  
HWGNPNDPHGSEHTVSGQHFAELHIVHNSDLYPDASTASNKSEGLAVLAVLIEMGSFN  
PSYDKIFSHLQHVKYKGQEAFFPGFNIEELLPERTAEYYRYRGSLTTPPCNPTVLWTVFR  
NPVQISQEQLLALETALYCTHMDDSPREMINNFRQVQKFDERLVYTSFSQVQVCTAAGL  
SLGIILSLALAGILGICIVVVVSIWLFRRKSIKKGDNKGVYKPKMETEAHA

>sp|P07451|CAH3\_HUMAN Carbonic anhydrase 3 OS=Homo sapiens GN=CA3 PE=1 SV=3

MAKEWGYASHNGPDHWHELFPNAKGENQSPVELHTKDIRHPSLQPWSVSYDGGSAKTIL  
NNGKTCRVVFDITYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVDGVKYAAELHL  
VHWNPKYNTFKEALKQRDGIIVIGIFLKGHENGFEQIFLDALDKIKTKGKEAPFTKFD  
SCLFPACRDYWTYQGSFTTPPCEEIVWLLKEPMTVSSDQMAKLRSLLSSAENEPVPL  
VSNWRPPQPINNRVVRASFK

>sp|Q16790|CAH9\_HUMAN Carbonic anhydrase 9 OS=Homo sapiens GN=CA9 PE=1 SV=2

MAPLCPSPWLPLLIPAPAGLTVQLLSLLLVVHPQRLPRMQEDSPLGGSSGEDDPL  
GEEDLPSEEDSPREEDPPGEEDLPGEEDLPGEEDLPEVKPKSEEEGSLKLEDLPTVEAPG  
DPQEPQNAHRDKEGDDQSHWRYGGDPPWPRVSPACAGRFQSPVDIRPQLAAFCPALRPL  
ELLGFQLPPLPELRLRNNGHSVQLTLPPGLEMALGPGREYRALQLHLHWGAAGRPGSEHT  
VEGHRFPAEIHVVHLSTAFARVDEALGRPGGLAVLAFLFEEGPEENSAYEQLLSRLEEIA  
EEGSETQVPGLDISALLPSDFSRYFYEGSLTPPCAQGVIVTVFNQTVMLSAQLHTLS  
DTLWGPDSRLQLNFRATQPLNGRVIEASFPAGVDSSPRAAEPVQLNSCLAAGDILALVF  
GLLFAVTSVAFLVQMRRQHRRGTKGGVSYPRAEVAETGA

>sp|Q8IU99|CAHM1\_HUMAN Calcium homeostasis modulator protein 1 OS=Homo sapiens GN=CAHM1  
PE=1 SV=2

MMDKFRMIFQFLQSNQESFMNGICGIMALASAMYSAFDFNCPCLPGYNAAYSAGILLAP  
PLVLFLGLVMNNVSMLEEWKRPLGRRAKDPAVLRYMFCMAQRALIAPVVWVAVTLL  
DGKCFLECACTAVPVVSLGNGSLAPGLPAPELARLLARVPCPEIYDGDWLLAREVAVRYL  
RCISQALGWSFVLLTLLAFVVRVSRPCFTQAAFLKSKYWSHYIDIERKLDFETCTEHA  
KAFKVCIQQFFAMNHDLELGHHTGLATAPASAAPTTPDGAEEEREKLRGITDQGTMN  
RLTTSWHKCKPPLRLGQEEPPLMGNGWAGGGPRPPRKEVATYFSKV

>sp|P05937|CALB1\_HUMAN Calbindin OS=Homo sapiens GN=CALB1 PE=1 SV=2

MAESHLQSSLITASQFFEIWLHFDADGSGYLEGKELQNLIQELQQARKKAGLELSPMK  
FVDQYQGRDDGKIGIVELAHVLPTEENFLLLFRCQQLKSCEEFMKTWRKYDTHSGFIET  
EELKNFLKDLLEKANKTVDDTKLAEYTDMLKLFDNNNDGKLELTEMARLLPVQENFLK  
FQGIKMCQKEFNKAFELYDQDNGYIDENELDALDKDLCEKNKQDLINNITTYKKNIMA  
LSDGGKLYRTDLALILCAGDN

>sp|P06881|CALCA\_HUMAN Calcitonin gene-related peptide 1 OS=Homo sapiens GN=CALCA PE=1  
SV=3

MGFQKFSPLALSILVLLQAGSLHAAPFRSALESSPADPATLSEDEARLLLAALVQNYVQ  
MKASELEQEEREGRSRIIAQKRACDTATCVTHRLAGLLSRSGGVKNNFVPTNVGSKAFG  
RRRRDLQA

>sp|P62158|CALM\_HUMAN Calmodulin OS=Homo sapiens GN=CALM1 PE=1 SV=2

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADG  
NGTIDFPEFLTMMARKMKDSTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLDE  
EVDEMIREADIDGDGQVNYEEFVQMMTAK

>sp|Q8NCB2|CAMKV\_HUMAN CaM kinase-like vesicle-associated protein OS=Homo sapiens  
GN=CAMKV PE=2 SV=2

MPFGCVTLGDKKNYNQSEVTDTRYDLGGVIKTEEFCEIFRAKDKTGKLHTCKKFQKRDG  
RKVRKAAKNEIGILKMVKHPNQLQVDVFTVTRKEYFIFLELATGREVFDWILDQGYYSER  
DTSNVVRQVLEAVAYLHSLKIVHRNLKLENLVYYNRLKNSKIVISDFHLAKLENGLIKEP  
CGTPEYLAPEVVGRQRYGRPVDCWAIGVIMYILLSGNPPFYEEVEEDDYENHDKNLFRKI  
LAGDYEFDSPYWDDISQAAKDLVTRLMEVEQDQRITAEAAISHewisGNAAADKNIKDGV  
CAQIEKNFARAKWKA VRVTTLMKRLRAPEQSSTAAASASATDTATPGAAGGATAAAAS  
GATSAPEGDAARAASDNVAPADRSATPATDGSATPATDGSVTPATDGSITPATDGSVTP  
ATDRSATPATDGRATPATEESTVPTTQSSAMLATKAAATPEPAMAQPDSTAPEGATGQAP  
PSSKGEEAAGYAQESQREEAS

>sp|A6NHC0|CAN8\_HUMAN Calpain-8 OS=Homo sapiens GN=CAPN8 PE=2 SV=3

MAAQAAGVSRQRAATQGLGSNQNALKYLGGDFKTLRQQCLDSGVLFKDPEFPACPSALGY  
KDLGPGSPQTGGIIWKRPTELCPSPQFIVGGATRTDICQGLGDCWLLAAIASLTLNEEL  
LYRVPRDQDFQENYAGIFHFQFWQYGEWVEVVIDRDLPTKNGQLFLHSEQGNFWSAL  
LEKAYAKLNGCYEALAGGSTVEGFEDFTGGISEFYDLKKPPANLYQIIKALCAGSLLGC  
SIDVSSAAEAIAITSQKLKSHAYSVTGVVEVNFQGHPEKLIRLRNPWGEVWSGAWSD  
APEWNHIDPRRKEELDKKVEDGEFWMSLSDFVRQFSRLEICNLSPDSLSEEVHKWNLVL  
FNGHWTRGSTAGGCQNPATYWTNPQFKIRLDEVDEDQEESIGEPCCTVLLGLMQKNRRW  
RKRIQGQMLSIGYAVYQVPKELESHTDAHLGRDFFLAYQPSARTSTYVNLREVSGRARLP  
PGEYLVPSTFEFPKDGECFLRVFSEKKAQALEIGDVAAGNPYEPHPSEVDQEDDQFRRL  
FEKLAGKDSEITANALKILLNEAFSKRTDIKFDGFNINTCREMISLLDSNGTGTGAVEF  
KTLWLKIQKYLEIYWETDYNHSGTIDAHEMRTALRKAGFTLNSQVQQTIALRYACSKLGI  
NFDSFVACMIRLETFLFKLSLLDEDKGMVQLSLAEWLCCVLV

>sp|Q9BXL7|CAR11\_HUMAN Caspase recruitment domain-containing protein 11 OS=Homo sapiens  
GN=CARD11 PE=1 SV=3

MPGGGPEMDDYMETLKDEEDALWENVECNRHMLSRYPINPAKLTPYLRQCKVIDEQDEDEV  
LNAFMLPSKINRAGRLDILHTKGQRGYVVFLESLEFYYPELYKLVGTGKEPTRRFSTIVV  
EEGHEGLTHFLMNEVIKLQQQMKAKDLQRCELLARLRQLEDEKKQMTLTRVELLTFQERY  
YKMKEERDSYNDELVKVKDDNYNLAMRYAQLSEEKNMAVMRSRDLQLEIDQLKHRLNKME  
EECKLERNQSLKLNNDIENRPKEQVLELERENEMLKTKNQELQSIIQAGKRSLPDSKA  
ILDILEHDRKEALEDRLQELVNRIYNLQEEARQAEELRDKYLEEKEDLELKCSTLGKDCM  
YKHRMNTVMLQLEEVERERDQAFHSRDEAQTQYSQCLIEKDQYRKQIRELEEKNDEMRIE  
MVRREACIVNLESKLRLRLSKDSNNLDQSLPRNLPVTIISQDFGDASPTNGQEADDSSTS  
EESPEDSKYFLPYHPPQRRMNLKGIQLQRAKSPISLKRTSDFQAKGHEEETDASPSSCG  
SLPITNSFTKMQPPRSRSSIMSITAEPGNDSIVRRYKEDAPHRSTVEEDNDSGGFDALD  
LDDDSHERYSFGPSSIHSSSSSHQSEGLDAYDLEQVNL MFRKFSLERPFRPSVTSVGHVR  
GPGPSVQHTTLNGDSLTSQLTLGGNARGSFVHSVKGSLAEKAGLREGHQLLLLEGCTIR  
GERQSVPLDTCTKEEAHWTIQRCSGPVTLHYKVNHEGYRKLVKDMEDGLITSGDSFYIRL  
NLNISSQLDACTMSLKCDDVVHVRDVTMYQDRHEWL CARVDPFTDHDLDMGITPSYSRAQQ  
LLLVLKQLRMHRGSREEVDGTHHTLRALRNTLQPEEALSTSDPRVSPRLSRASFLFGQLL  
QFVSRSENKYKRMNSNERVRIISGSPGLSLARSSLDATKLLTEKQEELDPESELGKNLSL  
IPYSLVRAFYCERRRPVLTFTVLAKTLVQRLLNSGGAMEFTICKSDIVTRDEFLRRQKT  
ETIIYSREKNPNFAFECIAPANIEA VAAKNKHCLLEAGIGCTRDLIKSNIYPIVLFIRVCE

KNIKRFRKLLPRPETEEEFRLVCRLKEKELEALPCLYATVEPDMWGSVEELLRVVKDKIG  
EEQRKTIWVDEDQL

>sp|P05814|CASB\_HUMAN Beta-casein OS=Homo sapiens GN=CSN2 PE=1 SV=4

MKVLILACLVALALARETIESLSSEESITEYKQKVEKVKHEDQQQGEDEHQDKIYPSFQ  
PQPLIYPFVEPIPYGFLPQNILPLAQPAVVLVPVQPEIMEVPAKDTVYTKGRVMPVLKS  
PTIPFFDPQIPKLTDLNLHLPLPLQLPLMQQVPQPIPQTLALPPQPLWSVPQPKVLP  
IPQVVYPYPQRAVPVQALLLNQELLLNPTHQIYPVTQPLAPVHNPISV

>sp|P31944|CASPE\_HUMAN Caspase-14 OS=Homo sapiens GN=CASP14 PE=1 SV=2

MSNPRSLEEEKYDMSGARLALILCVTKAREGSEEDLDALEHMFRQLRFESTMKRDPTAEQ  
FQEELEKFQQAIDSREDPVSCAFVVLMAHGREGFLKGEDGEMVKLENLFEALNNKNCQAL  
RAKPKVYIIQACRGEQRDPGETVGGDEIVMVIKDSPTIPTYTDALHVYSTVEGYIAYRH  
DQKGSCFIQTLVDVFTKRKGHILELLTEVTRRMAEAEVLQEGKARKTNPEIQSTLRKRLY  
LQ

>sp|Q13948|CASP\_HUMAN Protein CASP OS=Homo sapiens GN=CUX1 PE=1 SV=2

MAANVGSMFQYWKRFDLQQLQRELDATATVLANRQDESEQSRKRLIEQSREFKKNTPEDL  
RKQVAPLLKSFQGEIDALSKRSKEAEAAFLNVYKRLIDVPDPVPALDLGQQLQLKVQRLH  
DIETENQKLRETLEEYNKEFAEAVNQEVTIKALKEKIREYEQTLKNQAETIALEKEQKLQ  
NDFAEKERKLQETQMSTTSKLEEAHKVQSLQTALEKTRTELDLTKYDEETTAKADEI  
EMIMTDLERANQRAEVAQREAETLREQLSSANHSLLASQIQKAPDVEQAIEVLTRSSLE  
VELAAKEREIAQLVEDVQRLQASLTKLRENSASQISQLEQQLSAKNSTLKQLEEKLGQA  
DYEEVKKELNILKSMFAPSEGAGTQDAKPLEVLLLEKNRSLQSENAALRISNSDLSGR  
CAELQVRITEAVATATEQRELIALEQDLSIIQSIQRPDAEGAAHRLEKIPEPIKEATA  
LFYGAAPASGALPEGQVDSLSSISSQRERFRARNQELEAENRLAQHTLQALQSELDL  
RADNIKLFEEKIFLQSYPGRGSGDDTELRYSSQYEERLDPFSSFSKRERQRKYLSLSPW  
DKATLSMGRVLVLSNKMARTIGFFYTLFLHCLVFLVLYKLAWSESMERDCATFCAKKFADH  
LHKFHENDNGAAAGDLWQ

>sp|Q9Y6E2|BZW2\_HUMAN Basic leucine zipper and W2 domain-containing protein 2 OS=Homo sapiens GN=BZW2 PE=1 SV=1

MNKHQKPVLTGQRFKTRKRDEKEKFEPTVFRDTLVQGLNEAGDDLEAVAKFLDSTGSRLD  
YRRYADTLFDILVAGSMLAPGGTRIDDGDKTKMTNHCVFSAEDHETIRNYAQVFNKLIR  
RYKYLEKAFEDEMKKLLFLKAFSETEQTKLAMLGILLGNGTLPATILTSFTDSLVE  
GIAASFAVKLFKAWMAEKDANSVTSSLRKANLDKRLLEFPVNRQSVDFHAKYFTDAGLK  
ELSDFLRVQQLGTRKELQKELQERLSQECPIKEVVLYVKEEMKRNDLPETAVIGLLWTC  
IMNAVEWNKKEELVAEQALKHLKQYAPLLAVFSSQGQSELILLQKVQEYCYDNIHFMKAF  
QKIVVLFYKADVLSEEAHLKWKYEAHVAKGKSVFLDQMKKFVEWLQNAEESESEGEEN

>sp|Q8IYA2|C144C\_HUMAN Putative coiled-coil domain-containing protein 144C OS=Homo sapiens GN=CCDC144CP PE=5 SV=3

MVSWGGEKRGGAEGSPKPAVYATRKTGSVRSQEDQWYLGYPGDQWSSGFSYSWWKNSVGS  
ESKHGEGALDQPQHDVRLLEDLGEHLHRAARSGDVPQVEHVLVPGDTGVDKRDKKSIQQLV  
PEYKEKQTPESLPQNNPDWHPTNLTLSDETCQRSKNLKVDDKCPSPVSPMPENQSATKE  
LGQMNLTREKMDTGVKTSQEPEMAKDCDREDIPIYPVLPHVQKSEEMRIEQGKLEWKNQ  
LKLVINELKQRFGEIYEKYIPACPEEEPLDNSTRGTDVKDIPFNLNNIPGCEEEDAS  
EISVSVVFETFPQKEPSLKNIIHSYYHPYSGSQEHVCQSSSKLHLHENKLDNDNKNPG  
IGHIFSTDKNFHNDASTKKARNPEVTVEMKEDQEFDLQMTKNMNQNSDSGSTNNYKSLK

PKLENLSSLPPDSRTSEVYLHEELQQDMQKFKNEVNTLEEEFLALKKENVQLHKEVEEEE  
MEKHRSNSTELSGTLTDGTTVGNDGDLNQQIPRKENGHDRLALKQENEEKRNADMLYN  
KDSEQLRIKEEECGKVETKQQLKWNLRRLVKELRTVVQERNDAAQQLSEEQDARILQDQ  
ILTSKQKELEMAQKKRNPESISHRHQEKDLFHENCMLQEEIALLRLEIDTIKNQNKQKEK  
KYFEDIEVVKEKNDNLQKIIKRNEETLTETILQYSGQLNNLTAENKMLNSELENGKENQE  
RLEIEMESYRCRLAAAVHDCDQSQRTARDLKLDFQRTRQEWVRLHDKMKVDMSGLQAKNEI  
LSEKLSNAESKINSLQIQLHNTRDALGRESLILERVQRDLSTQCQKKETE QMYQSKLKK  
YIAKQESVEERLSQLQSENMLLRQQLDDVHKKANSQEKTIISTIQDQFHSAAKNLQAESEK  
QILSLQEKNEKELMDEYNHLKERMDQCEKEKAGRKIDLTEAQETVPSRCLHLDAENEVLQL  
QQTLFSMKAIQKQCETLQKNKKQLKQEVVNLKSYMERNMLERGEAEWHKLLIEERARKEI  
EEKLNEAILTLQKQAAVSHEQLAQLREDNTTSIKTQMELTVIDLESEISRIKTSQADFNK  
TKLERYKELYEEVKVRESLSNELSRTNEMIAEVSTQLTVEKEQTRSRLFTAYATRPVL  
ESPCVGNLNDSEGLNRKHI PRKKRSALKDMESYLLKMQQKLQNDLTAEVAGSSQTGLHRI  
PQCSSFSSSSLHLLCSICQPFLLQLLLNMNDPI

>sp|Q86VB7|C163A\_HUMAN Scavenger receptor cysteine-rich type 1 protein M130 OS=Homo  
sapiens GN=CD163 PE=1 SV=2

MSKLRMVLEDSGSADFRRHFVNLSPTTITVVLLLSACFVTSSLGGTDKELRLVDGENKC  
SGRVEVKVQEEWGTVCNNGWSMEAVSVICNQLGCPTAIKAPGWANSSAGSGRIWMDHVSC  
RGNESALWDCKHDGWGKHSNCTHQQDAGVTCSDGSNLEMRLTRGGNMCSGRIEIKFQGRW  
GTVCDNFNIDHASVICRQLECGSAVSFSGSSNFGEGSGPIWFDDLICNGNESALWNCKH  
QGWGKHNCDAEDAGVICSKGADLSRLVDGVTECSGRLEVRFQGEWGTICDDGWDSDA  
AVACKQLGCPTAVTAIGRVNASKGFGHIWLDVSCQGHEPAIWQCKHHEWGKHYCNHED  
AGVTCSDGSDLELRLRGGGSRCACTVEVEIQRLLGKVCDRGWGLKEADVCRQLGCGSAL  
KTSYQVYSKIQATNTWFLSSCNGNETSLWDCKNWQWGGLTCDHYEEAKITCSAHREPRL  
VGGDIPCSGRVEVKHGDWTGSCDSDFSLEAASVLCRELQCGTVVSI LGGAHFEGNGQI  
WAEFQCEGHESHLSCPVPAPRPEGTCSHSRDVGVCVSRYTEIRLVNGKTPCEGRVELKT  
LGAWGSLCNSHWDIEDAHVLCQQLKCGVALSTPGGARFGKNGQIWRHMFHCTGTQEHMG  
DCPVTALGASLCPSEQVASVICSGNQSQTLSNCSSSLGPTRPTIPEESAVACIESGQLR  
LVNGGGRCAGRVEIYHEGSGWTICDDSWDLSAHVVCRLGCGEAINATGSAHFEGGTGP  
IWLDEMKCNGKESRIWQCHSHGWGQQNCRHKEDAGVICSEFMSLRLTSEASREACAGRL  
VFYNGAWGTGKSSMETTVGVVCRQLGCADKGINPASLDKAMSIPMWVDNVQCPKGP  
TLWQCPSSPWEKRLASPSEETWITCDNKIRLQEGPTSCSGRVEIWHGGSGWTVCDSDWL  
DDAQVVCQQLGCGPALKAFKEAEFGGTGPIWLVNCKKGNESLWDCPARRWGHSECGH  
KEDAAVNCTDISVQKTPQKATTGRSSRQSSFI AVGILGVVLLAIFVALFFLTKRRQRQR  
LAVSSRGENLVHQIQYREMNSCLNADDLDMNSENSESHESADFSAAELISVSKFLPISGM  
EKEAILSHTEKENG

>sp|Q9NR16|C163B\_HUMAN Scavenger receptor cysteine-rich type 1 protein M160 OS=Homo  
sapiens GN=CD163L1 PE=1 SV=2

MMLPQNSWHIDFGRCCCHQNLFSAVVTCILLNSCFLISSFNGTDLELRLVNGDGPCSGT  
VEVKFQGGWGTVCDDGWNTTASTVVCKQLGCPFSFAMFRFGQAVTRHGKIWLDDVSCYGN  
ESALWECQHREWGSHNCYHGEDVGVNCYGEANLGLRLVDGNNSCSGRVEVKFQERWGTIC  
DDGWNLTAAVVCRLGCPSSFISSGVVNSPAVLRPIWLDDILCQGNEALALWNCRHRGWG  
NHDCSHNEDVTLTCYDSSDLELRLVGGTNRCMGRVELKIQGRWGTVCHHKWNNAADVVC  
KQLGCGTALHFAGLPHLQSGSDVVWLDGVSCSGNESFLWDCRHS GTVNFDC LHQNDVSVI

CSDGADLELRLADGSNNCSGRVEVRIHEQWWTICDQNWKNEQALVVCKQLGCPFSVFGSR  
RAKPSNEARDIWINISICTGNESALWDCTYDGKAKRTCFRRS DAGVICSDKADLDLRLVG  
AHSPCYGRLEVKYQGEWGTVCHDRWSTRNAAVVCKQLGCGKPLHVFGMTYFKEASGPIWL  
DDVSCIGNESNIWDCESGSGWKHNCVHREDVIVTCSGDATWGLRLVGGSNRCSGRLEVYF  
QGRWGTVCDDGWNSKAAAVVCSQLDCPSSIIGMGLGNASTGYGKIWLDDVSCDGDES DLW  
SCRNSGWNNDCSHSEDVGVICSDASDMELRLVGGSSRCAGKVEVNVQGAVGILCANGWG  
MNIAEVVCRQLECGSAIRVSREPHFTERTLHILMSNGCTGGEASLWDCIRWEWKQTACH  
LNMEASLICSAHRQPRLVGADMPCSGRVEVKHADTWRSVCDSDFSLHAANVLCRELNCGD  
AISLSVGDHFGKGNGLTWA EK FQCEGSETHLALCPIVQHPEDTCIHSREVG VVCSRYTDV  
RLVNGKSQCDGQVEINV LGHWGSLCDTHWDPEDARVLCRQLSCGTALSTTGK YIGERSV  
RVWGH RFHCLGNESLLDNCQMTVLGAPPCIHGNTVSVICTGSLTQPLFPCLANVSDPYLS  
AVPEGSALICLEDKRLRLVDGDSRCAGRVEIYH DGFWGTICDDGWDLSDAHVV CQKLGCG  
VAFNATVSAHFGEGSGPIWLDDL NCTGMESHLWQCPSRGWGQHDCRHKEDAGVICSEFTA  
LRLYSETETESCAGRLEV FYNGTWG SVGRRNITTAIAGIVCRQLGCGENG VVSLAPLSKT  
GSGFMWDDIQC PKTHISIWQCLSAPWERRISSPAEETWITCEDRIRVRGGDTECSGRVE  
IWHAGSWGTV CDDSWDLAEAEVVCQQLGCGSALAALRDASFGQGTGIWLDDMRCKGNES  
FLWDCHAKPWGQSDCGHKEDAGVRC SGQSLKSLNASSGHLALILSSIFGLLLLVLFILFL  
TWC RVQKQKHLPLRVSTRRRGSLEENLFHEMETCLKREDPHGTRTSDDTPNHGCEDASDT  
SLLGVLPASEATK

>sp|Q6UWJ8|C16L2\_HUMAN CD164 sialomucin-like 2 protein OS=Homo sapiens GN=CD164L2 PE=1 SV=2

MEAPGPRALRTALCGGCCLLLLCAQLAVAGKGARGFGRGALIRLNIWPAVQGACKQLEVC  
EHCVEGDRARNLSSCMWEQCRPEEPGHCVAQSEVVKEGCSIYNRSEACPAHHHPTYPEPK  
TVTTGSPVPPEAHS PGFDGASFIGGVVLVLSLQAVAFFVLHFLKAKDSTYQTLI

>sp|PODN25|C1C1L\_HUMAN C1GALT1-specific chaperone 1-like protein OS=Homo sapiens GN=C1GALT1C1L PE=3 SV=1

MVSASGTSFFKGMLLGSISWVLITMFGQIHIRHRGQTQDHEHHHLRPPN RNDFLNTSKVI  
LLELSKSIRVFCIIFGESEDESYWAVLKETWTKHCDKAELYDTKNDNLFNIESNDRWVQM  
RTAYKYVFEKYGDNYNWFFLALPTTFAVIENLKYL LFTRDASQPFYLGHTVIFGDLEYVT  
VEGGIVLSREL MKRLNRLLDNSETCADQSVIWKLS EDKQLAICLKYAGVHAENAEDYEGR  
DVFNTKPIAQLIEEALSNNPQQVVEGCCSDMAITFNGLTPQKMEVMMYGLYRLRAF GHYF  
NDTLVFLPPVGSEND

>sp|Q9BXI9|C1QT6\_HUMAN Complement C1q tumor necrosis factor-related protein 6 OS=Homo sapiens GN=C1QTNF6 PE=1 SV=3

MGTAALGPVWAALLFLLMCEIPMVELTFDRAVASGCQRCCDSEDPLDPAHVSSASSSGR  
PHALPEIRPYINITILKDGKDPGPMGLPGYMGREGPQGEPGPQGSKGDKGEMGSPGAPC  
QKRFFAFSVGRKTALHSGEDFQTLLFERVFNLDGCFDMATGQFAAPLRGIYFFSLNVHS  
WNYKETYVHIMHNQKEAVILYAQP SERSIMQSQSVMLDLAYGDRVWVRLFKRQRENAIYS  
NDFDTYITFSGHLIKAEDD

>sp|P60827|C1QT8\_HUMAN Complement C1q tumor necrosis factor-related protein 8 OS=Homo sapiens GN=C1QTNF8 PE=1 SV=2

MAAPALLLLALLLPVGA WPLPRRPCVHCCRPAPWPPG PYARVSDRDLWRGDLWRGLPRVR  
PTIDIEILKGEKGEAGVRGRAGRSKGEPPGARGLQGRRGQKQGVPPGAACRRAYAAFS  
VGRREGLHSSDHFQAVPFDTEL VNL DGAFDLAAGRFLCTVPGVYFLSLNVHTWNYKETYL

HIMLNRRPAAVLYAQPSERSVMAQSLMLLLAAGDAVWVRMFQRDRDNAIYGEHGDLYIT  
FSGHLVKPAAEL

>sp|P00736|C1R\_HUMAN Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

MWLLYLLVPALFCRAGGSIPIPKLFGEVTSPLFPKPYPNNFETTTVITVPTGYRVKLVF  
QQFDLEPSEGCIFYDYVKISADKKSLGRFCGQLGSPLGNPPGKKEFMSQGNKMLLTFHTDF  
SNEENGTIMFYKGFAYYQAVDLDECASRSKSGEEDPQPQCQHLCHNYVGGYFCSCRPGY  
ELQEDTHSCQAECSSELYTEASGYISSLEYPRSYPPDLRCNYSIRVERGLTLHLKFLEPF  
DIDDHQQVHCPYDQLQIYANGKNIGEFCKGRPPDLTSSNAVDLLFFTDESGDSRGWKL  
RYTTEIIKCPQPKTLDEFTIIQNLPQYQFRDYFIATCKQGYQLIEGNQVLHSFTAVCQD  
DGTWHRAMPCKIKDCGQPRNLPNGDFRYTTTMGVNTYKARIQYYCHEPYKMQTRAGSR  
ESEQGVYTCTAQGIWKNEQKGEKIPRCLPVCCKPVNPVEQRRIIGGQKAKMGNFPWQVF  
TNIHGRGGGALLGDRWILTAHTLYPKEHEAQSNASLDVFLGHTNVEELMKLGHNPIRRV  
SVHPDYRQDESYNFEGDIALLELENSVTLGPNLLPICLPDNDTFYDLGLMGYVSGFGVME  
EKIAHDLRFVRLPVANPQACENWLRGKNRMDVFSQNMFCAGHPSLKQDACQGDGSGGVFAV  
RDPNTDRWVATGIVSWGIGCSRGYGYTKVLNYVDWIKKEMEEED

>sp|POC862|C1T9A\_HUMAN Complement C1q and tumor necrosis factor-related protein 9A OS=Homo sapiens GN=C1QTNF9 PE=1 SV=1

MRIWLLLAIEICTGNINSQDTCRQGHPGIPGNPGHNGLPGRDGRDGAKGDKGDAGEPGR  
PGSPGKDGTSGEKGERGADGKVEAKGIKGDQGSRGSPGKHGPKGLAGPMGEKGLRGETGP  
QQQKGNKGDVGPTGPEGPRGNIGPLGPTGLPGMPGPIGKPGPKGEAGPTGPQGEQVVRGI  
RGWKGDRGEKGIETLVLPSAFTVGLTVLSKFPSSDMPKFDKILYNEFNHYDTAAGK  
FTCHIAGVYYFTYHITVFSRNVQVSLVKNVVKILHTKDAYMSSEDQASGGIVLQLKLGDE  
VWLQVTGGERFNGLFADEDDDTFTGFLLFSSP

>sp|P11586|C1TC\_HUMAN C-1-tetrahydrofolate synthase, cytoplasmic OS=Homo sapiens GN=MTHFD1 PE=1 SV=3

MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPRLAILQVGNRDDSPLYINVKLAA  
EEIGIKATHIKLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIAP  
EKDVDGLTSINAGRLARGDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGSRKIVGAP  
MHDLLLWNNATVTTCHSKTAHLDEEVNKGDIILVVATGQPEMVKGWIKPGAIVIDCGINY  
VPDDKKPNGRKVVGDVAYDEAKERASFITPVGGVGPMTVAMLQSTVESAKRFLEKFKP  
GKWWMIQYNNLNLKTPVPSDIDISRCKPKPIGKLAREIGLLSEEVELYGETKAKVLLSAL  
ERLKHPRPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAHLYQNVFACVRQPSQGPTFGI  
KGGAAGGGYSQVIPMEEFNLHLTGDIHAITAANLVAADARIFHELTQTDKALFNRLV  
PSVNGVRRFSDIQIRRLKRLGIEKTDPTTLDEEINRFARLDIDPETITWQRVLDTNDRF  
LRKITIGQAPTEKGHTRTAQFDISVASEIMAVLALTTSLDMRERLGKMMVASSKKGEPV  
SAEDLVSGALTVMKDAIKPNLMQTLEGTPVFVHAGPFANIAHGNSIIADRIALKLVG  
PEGFVVTEAGFGADIGMEKFFNIKCRYSGLCPHVVLVATVRALKMHGGGPTVTAGLPLP  
KAYIQENLELVEKGFSNLKKQIENARMFGIPVVAVNAFKTDTESELDLISRLSREHGAF  
DAVKCTHWAEGGKALALAAVQRAAQAPSSFQLLYDLKLPVEDKIRIIAQKIYGADDIE  
LLPEAQHKADEVYTKQGFNLPICMAKTHLSLSHNPEQKGVPTGFILPIRIDIRASVGAGFL  
YPLVGTMTMPGLPTRPCFYDIDLDPETEQVNGLF

>sp|Q96HQ2|C2AIL\_HUMAN CDKN2AIP N-terminal-like protein OS=Homo sapiens GN=CDKN2AIPNL PE=1 SV=1

MVGGEAAAAVEELVSGVRQAADFAEQFRSYSESEKQWKARMEFILRHLPDYRDPDGSGR

LDQLLSLSMVWANHLFLGCSYNKDLLDKVMEMADGIEVEDLPQFTTRSELMKKHQ

>sp|Q6DHV5|C2D2B\_HUMAN Protein CC2D2B OS=Homo sapiens GN=CC2D2B PE=2 SV=2

MMTEKHEDHCLKSCSGHSYIRKNWLGCIVPPFSALLQQSEFLDQTEVLQRAQIFKKNCKA  
MFPNRRIVTTVFNDEGIQFLVTRYIKALNPPQQLDIFLHNSNATFDLIARFVSLIPFVP  
NTPDENDGSDIWMTSEHCISLAIGNKEEHAILLCNFFLYFGKKALVLLGTSVLEGHVAYV  
VTQETNEYLLWNPSTGQCYKQFDFCPLKSVDCLFDDRNVWFNIQQNNTPMVFFDYSKE  
SFWKQLLPKNVQGTIKIQSIQVTGFPIQMPYIDVQSIIDAVYQTGIHSAEFPQTEFALAVY  
IHPYPNNILSVWVYLASLVQH

>sp|P33076|C2TA\_HUMAN MHC class II transactivator OS=Homo sapiens GN=CIITA PE=1 SV=3

MRCLAPRPAGSYLSEPPQSSQCATMELGPLEGGYLELLNSDADPLCLYHFYDQMDLAGEE  
EIELYSEPD TDTINCDQFSRLCDMEGDEETREAYANIAELDQYVFQDSQLEGLSKDIFK  
HIGPDEVIGESMEMPAEVGQKSQKRPPEELPADLKHWPAPPTVVTGSLLRPVSDCS  
TLPCPLPALFNQEPASGQMRLEKTDQIPMPFSSSSLSCLNLEPGPIQFVPTISTLPHGL  
WQISEAGTGVSIFIIYHGEVPPASQVPPPSGFTVHGLPTSPDRPGSTSPFAPSATDLPSM  
PEPALTSRANMTEHKSPTQCPAAGEVSNKLPKWPEPVEQFYRSLQDITYGAEPAGPDGIL  
VEVDLVQARLERSSSKSLERELATPDWAERQLAQGGLAEVLLAAKEHRRPRETRVIAVLG  
KAGQGKSYWAGAVSRAWACGRLPQYDFVFSVPCHCLNRPGLDAYGLQDLLFSLGPQPLVAA  
DEVFSHILKRPDRVLLILDGFEELEAQDGLHSTCGPAPAEPCLSRGLLAGLFQKKLLRG  
CTLLL TARPRGRLVQSLSKADALFELSGFSMEQAQAYVMRYFESSGMTEHQDRALTLLRD  
RPLLSHSHSPTLCRAVCQLSEALLELGEDAKLPSTLTGLYVGLGRAALDSPPGALAE  
AKLAWELGRRHQSTLQEDQFPSADVRTWAMAKGLVQHPPRAAESELAFFSFLQCFGLAL  
WLALSGEIKDKELPQYLALTPRKKRPYDNWLEGVPRFLAGLIFQPPARCLGALLGPSAAA  
SVDRKQKVLARYLKRQLPGTLRARQLLELLHCAHEAEEAGIWQHVVQELPGRLSFLGTRL  
TPPDAHVLGKALEAAGQDFSLDLRSTGICPSGLGSLVGLSCVTRFRAALSDTVALWESLQ  
QHGETKLLQAAEEKFTIEPFKAQSLKDVEDLGKLVQTQRTRSSSEDTAGELPAVRDLKKL  
EFALGPVSGPQAFPKLVRIITAFSSQLHLDLDALENKIGDEGVSQLSATFPQLKSLETL  
NLSQNNITDLGAYKLAEALPSLAASLLRLSLYNNCICDVGAESLARVLPDMVSLRVMDVQ  
YNKFTAAGAQLAASLRRCPHVETLAMWPTIPFSVQEHLLQQQDSRISLR

>sp|Q8NEQ6|CA064\_HUMAN Uncharacterized protein Clorf64 OS=Homo sapiens GN=Clorf64 PE=2  
SV=1

MAPSEDPDRWRANLKGITIRETGLETSSGGKLAGHQKTVPHTAHLTFVIDCTHGKQLSLAAT  
ASPPQAPSPNRGLVTPPMKTYIVFCGENWPHLTRVTPMGGCLAQARATLPLCRGSVASA  
SFPVSPLCPQEVPEAKGKPVKAAPVRSSTWGTVKDSLKALSSCVCGQAD

>sp|O95561|CA105\_HUMAN Uncharacterized protein Clorf105 OS=Homo sapiens GN=Clorf105 PE=1  
SV=1

MEKRELKASVPKFDKIPWLSEASLVNKPLVLSLPRRYPHTSATFLTSSKKNMNLPILFQV  
PDVLSKARRNQCDMSLLRNQQLCSTCQEMKMVQPRMTKIPDDPKASFENCMSYRMSLHQP  
KFQTTPEPFHDDIPTESIHRYLPILGPRTAVFHGLLTEAYKTLKERQRSSLPRKEPIGKT  
TRQ

>sp|Q5VVS0|CA140\_HUMAN Putative uncharacterized protein Clorf140 OS=Homo sapiens  
GN=Clorf140 PE=5 SV=1

MTQNSSSLGDRIITPYTPPRSQPMNKHFLVSLSTLFQTTELDFAKKSCFLCLPLRADGF  
PEMPHSPAQTERMQKLAKDPPHARSEDVPDHLFFVDTAGLREIVFCGVLRLTSEGLMR  
KETA

>sp|Q8N6G1|CA211\_HUMAN Putative uncharacterized protein encoded by LINC00337 OS=Homo sapiens GN=LINC00337 PE=5 SV=1

MGIEKRFNVLIKIVTQLQCHMGRRPGCECSWELRAPVTVASFLWSPTDSGHLPLLQDTSG  
PPEGTHRTFTPGRELVLGPKPTVPGKPFLASALLNV

>sp|Q8TAB5|CA216\_HUMAN UPF0500 protein Clorf216 OS=Homo sapiens GN=Clorf216 PE=1 SV=1

MFAIQPLAEGGQFLGDPPLGLCQPELQPDNSNFMASAKDANENWHGMPGRVEPILRRS  
SSESPSDNQAFQAPGSPEEGVRSPPGAEIPGAEPKMGAGTVCSPLDNGYASSSLSI  
DSRSSPEPACGTPRGPGPPDLLPSVAQAVQHLQVQERYKEQEKEHHVHLMYRRRLAL  
LQWIRQLQHQLIDQARLQESFDTILDNRKELIRCLQQRRAAPSRPDQA

>sp|H3BTG2|CA234\_HUMAN Uncharacterized protein Clorf234 OS=Homo sapiens GN=Clorf234 PE=2 SV=1

MSLHGILASAGTIGAVAAWLMSYKPALFGFLFLLLLLSNWLKYEHLTLPEPQQDEILQ  
RLLFSEMKMVLENQMFIIWNKMNHGRSSRHRNFPMKKHRMRRHESICPTLSDCTSSSP  
S

>sp|Q9NY47|CA2D2\_HUMAN Voltage-dependent calcium channel subunit alpha-2/delta-2 OS=Homo sapiens GN=CACNA2D2 PE=1 SV=2

MAVPARTCGASRGPARTARWPWPGCGPHGPGTRRPTSGPPRPLWLLLPLPLLAAPGAS  
AYSFPQQHTMQHWARRLEQEVGVMRIFGGVQQLREIYKDNRLFEVQENEPQKLVEKVA  
GDIESLLDRKVQALKRLADAAENFQKAHRWQDNIKEEDIVYYDAKADAELDDPESEDVER  
GSKASTLRDLFIEDPNFKNVNYSYAAVQIPTDIYKGSTVILNELNWTEALENVFMENRR  
QDPTLLWQVFGSATGVTRYYPATPWRAKKIDLYDVRRRPWYIQGASSPKDMV IIVDVSG  
SVSGLTLKLMKTSVCEMLDTLSDDDYVNVASFNEKAQPVSCFTHLVQANVRNKKVFKEAV  
QGMVAKGTTGYKAGFEYAFDQLQNSNITRANCNMIMMFTDGGEDRVQDVFKEYNWPNT  
VRVFTFSVGQHNYDVTPLQWMACANKGYFEIPSIGAIRINTQEYLDVLGRPMVLAGEA  
KQVQWTVNYEDALGLGLVVTGTLPVFNLTQDGPGEKKQLILGVMGIDVALNDIKRLTPN  
YTLGANGYVFAIDLNGYVLLHPNLKPQTTNFREPVTLDFLDAELEDENKEEIRSMIDGN  
KGHKQIRTLVKSLDERYIDEVTRNYTWVPIRSTNYSGLVLPYSTFYLANLSDQILQV  
KLPISKLKDFEFLPSSFESEGHVFIAPREYCKDLNASDNTEFLKNFIELMEKVTPDSK  
QCNNFLLHNLILDGITQQLVERVWRDQDLNTYSLAVFAATDGGITRVFPNKAEDWTE  
NPEPFNASFYRRSLDNHGYVFKPPHQDALLRPLELENDTVGILVSTAVELSLGRRTLPA  
VVGKLDLEAWAEKFKVLASNRTHQDQPKCGPNSHCMDCEVNEDLLCVLIDGGGLV  
LSNQNHQWDQVGRFFSEVDANLMLALYNNSFYTRKESYDYQAACAPPPGNLGAAPRGVF  
VPTVADFLNLAWWTSAAWSLFQQLLYGLIYHSWFQADPAEAGSPETRESSVMKQTQY  
YFGSVNASYNAIIDCGNCSRLFHAQRLTNTNLLFVVAEKPLCSQCEAGRLLQKETHSDGP  
EQCELVQRPRYRRGPHICFDYNATEDTSDCGRGASFPPSLGVLVSLQLLLLLGLPPRPQP  
QVLVHASRRL

>sp|Q8N1I8|CAAS1\_HUMAN Putative uncharacterized protein encoded by CACTIN-AS1 OS=Homo sapiens GN=CACTIN-AS1 PE=2 SV=1

MRPEVGREPAALQPRQRPSDHLHRSFPTVPPRTPACRSPGPSPIAVALVVKPQLEDA  
IGKLAAEAVAVRVFPLAVDDLESVDLVGRPRVEAQDGEILVVGAGLQEVLRGALVDEVG  
VEDVELVSLHDLGRWVVKVVRLVVLVPLEARVHAVEEARLAWPVLVGPQDGGCPGSART  
AAGKSFHHLWPQQGWASKPRMNEGTPQCACR

>sp|Q9Y6J0|CABIN\_HUMAN Calcineurin-binding protein cabin-1 OS=Homo sapiens GN=CABIN1 PE=1 SV=1



MIRIAALNASSTIEDDHEGSFKSHKTQTKEAQEAFAFYHKAJDLQKHDRFEESAKAYH  
ELLEASLLREAVSSGDEKEGLKHPGLILKYSTYKNLAQLAAQREDLETAMEFYLEAVMLD  
STDVNLWYKIGHVALRLIRIPLARHAFEGLRCNPDHWPCLDNLITVLYTLSDYTTCLYF  
ICKALEKDCRYSKGLVLKEIFEEQPCLRKDSLRLMFLKCDMSIHDVSVSAAETQAIVDEA  
LGLRKKRQALIVREKEPDLKLVPPIPFPTWKCLGESLLAMYNHLTTCEPPRPSLGKRIDL  
SDYQDPSQPLESSMVVTPVNVIQPSTVSTNPVAVAVAEPVVSYSVATTSFPLHSPGLLET  
GAPVGDISGGDKSKKGVKRRKISEESGETAKRRSARVRNTKCKKEEKVDFQELLMKFLPS  
RLRKLDPPEEEDDSFNNEVQSEAKLESFPSIGPQRLSFDSATFMESEKQDVHEFLENLT  
NGGILELMMRYLKAMGHKFLVRWPPGLAEVLSVYHSWRRHSTSLPNPLLRDCSNKHIKD  
MMLMSLSCEMLQLDQWLLTKGRSSAVSPRNCAGMVNGRFGPDFPGTHCLGDLQLSFAS  
SQRDLFEDGWLEFVVRVYWLKARFLALQGDMEQALENYDICTEMLQSSTAIQVEAGAERR  
DIVIRLPNLHNSVVSLEEIDKNLKSLERCQSLEEIQRLYEAGDYKAVVHLLRPTLCTSG  
FDRAKHLEFMTSIPERPAQLLLLQDSLLRLKDYRQCFECSVALNEAVQQMVNSGEAAAK  
EEWVATVTQLLMGIEQALSADSSGSILKVSSSTGLVRLTNNLIQVIDCSMAVQEEAKEP  
HVSSVLPWIIILHRIIWQEEDTFHSLCHQQQLQNPAEEGMSETPMLPSSMLLNTAHEYLG  
RRSWCCNSDGALLRFYVRVLQKELAASTSEDTHPYKEELETALQCFYCLYSFSPKKS  
KARYLEEHSAAQQVDLIWEDALFMFEYFKPKTLPEFDSYKTSTVSADLANLLKRIATIVPRTE  
RPALS LDKVSAYIEGTSTEVPCLEPAGADPSPPVNNELYYLLADYHFKNKEQSKAIKFYMH  
DICICPNRFDWAGMALARASRIQDKLNSNELKSDGPIWKHATPVLNCFRRALCIDSSNL  
SLWIEYGTMSYALHSFASRQLKQWRGELPPELVQQMEGRDRSMLTAKHCFTSAARCEGD  
GDEEELWIHYMLGKVAEKQQQPPTVYLLHYRQAGHYLHEEAARYPKIHYHNPELAMEA  
LEVYFRLHASILKLLGKPDGSGVGAEVLVNFMKEAAEGPFARGEKNTPKASEKEKACLVD  
EDSHSSAGTLPGPASLPSSSGPGLTSPPYTATPIDHDYVKCKKPHQATPDDRSQDSTA  
VALSDSSSTQDFFNEPTSLLEGSRKSYTEKRLPILSSQAGATGKDLQGATEERGKNEESL  
ESTEGFRAAEQGVQKPAETPASACIPGKPSASTPTLWDGKKRGDLPGEVPAFPQGLPAG  
AEEQRQFLTEQCIAFRCLSRFPQHYKSLYRLAFLYTSKTHRNQWARDVLLGSSIPW  
QQQLQHMPAQGLFCERNKTNFFNGIWRIPVDEIDRPGSFAWHMNRISVLLLKVLAQLRDHS  
TLLKVSSMLQRTPDQGGKYLRDADRQVLAQRAFLITVKVLEDTLSELAEGSERPGPKVCG  
LPGARMTTDVSHKASPEDGQEGLPQPKPPLADGSGGPEPGGKVGLLNHRPVAMDAGDS  
ADQSGERKDKESPRAGPTEPMDTSEATVCHSDLERTPPLLPGRPARDRGPESRPTLSLE  
ELISARQQPTPLTPAQAPAPAPATTTGTRAGGHPEEPLSRLSRKRKLEDTESGKTLL  
LDAYRVWQQGQKVAYDLGRVERIMSETYMLIKQVDEEAALQAVKFCQVHLGAAQQRQA  
SGDTPTTPKHPKDSRENFFPVTVPTAPDPVPADSVQRPSDAHTKPRPALAAATTIITCP  
PSASASTLDQSKDPGPPRPHRPEATPSMASLGEPEELARVAEGTSFPPQEPHSPQVKM  
APTSSPAEPHCWPAEALGTGAETCSQEGKLRPEPRRDGEAQEAASETQPLSSPPTAAS  
SKAPSSGSAQPPEGHPGKPEPSRAKSRPLPNMPKLVIPSAATKFPPEITVTPPTPTLLSP  
KGSISEETKQKLKSAILSAQSAANVRKESLCQPALEVLETSSQESSLESETDEDDDYMDI

>sp|Q9BT77|CABL2\_HUMAN CDK5 and ABL1 enzyme substrate 2 OS=Homo sapiens GN=CABLES2 PE=1  
SV=3

MAAAAAGGAPGAPGAPGAPPPPAAPTSAARAPPQALRRRGDSRRRQAALFFLNISLDGR  
PPSLGPGGEKPPPPPAEAREPPAPPPPEPPTGLPARTPAPQGLSPTQVPTGLGLDGQRQ  
RKRVTSQRCSLEFLEDAVGCAQRTKHTSGSPRHKGLKKTHTFIKNMRQYDTRNSRIVLI  
CAKRS LCAAFSVLPYGEGLRISDLRVDSQKQRHPSGGVSVSSEMVFEGVELGADGKVV  
SYAKFLYPTNALVTHKSDSHGLLPTPRPSVPRTLPGSRHKPAPTKSAPASTELGSDVGDT

LEYNPNLDDPQWPCGKHKRVLIFASYMTTVIEYVKPSDLKKDMNETFREKFPHVKLTLS  
KIRSLKREMRSLSEECSELPVTVMAYVYFEKLVLGKLSKQNRKLCAGACVLLAAKISS  
DLRKSQVTLIDKLEERFRFNRRDLIGFEFTVLVALELALYLPENQVLPHYRRLTQQF

>sp|075952|CABYR\_HUMAN Calcium-binding tyrosine phosphorylation-regulated protein OS=Homo  
sapiens GN=CABYR PE=1 SV=2

MISSKPRLVVPYGLKTLLEGISRAVLKTNPSNINQFAAAYFQELTMYRGNTTMDIKDLVK  
QFHQIKVEKWSEGTPQKKLECKEPGKTSVESKVPTQMEKSTDTDEDNVTRTEYSDKTT  
QFPSVYAVPGTEQTEAVGGLSSKPATPKTTTPSSPPPTAVSPEFAYVPADPAQLAAQML  
GKVSSIHSDDQSDVLMVDVATSMPVVIKEVPSSEAAEDVMVAAPLVCSGKVLEVQVQNQTS  
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ESVKLAQLEENAKYSSVYMEAEATALLSDTSLKGQPEVPAQLLDAEGAIIKIGSEKSLHLE  
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>sp|000555|CAC1A\_HUMAN Voltage-dependent P/Q-type calcium channel subunit alpha-1A  
OS=Homo sapiens GN=CACNA1A PE=1 SV=2

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LYNPVPRQNCITVNRSLFLFSEDNVVRKYAKKITEWPPFEYMILATIIANCIVLALEQH  
LPDDDKTPMSERLDDTEPYFIGIFCFEAGIKIIALGFAFHKGSYLRNGWNVMDFVVVLTG  
ILATVGTEFDLRTLRAVRVLRPLKLVSGIPSLQVVLKSIKAMIPLLQIGLLFFAILIF  
AIIGLEFYMGKFHTTCFEEGDDIQGESPAFCGTEEPARTCPNGTKCQPYWEGPNNGITQ  
FDNILFAVLTVFQCITMEGWTDLLYNSNDASGNTWNWLYFIPLIIIGSFFMLNLVLGVLS  
GEFAKERERVENRRAFLKLRRQQQIERELNGYMEWISKAEVILAEDETDGEQRHPFDGA  
LRRTTIKSKTDLLNPEEAEDQLADIASVGSFARASIKSAKLENSTFFHKKERRMRFYI  
RRMVKTQAFYWTVLSLVALNTLCVAIVHYNQPEWLSDFLYAEFIFLGLFMSEFIKMYG  
LGTRPYFHSSFCFCGVIIGSIFEVIWAVIKPGTSFGISVLRALRLRIFKVTKYWASL  
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VFQILTGEDWNEVMYDGIKSQGGVQGGMVFSIYFIVLTLFGNYTLLNVFLAIAVDNLANA  
QELTKDEQEEEEANQKLALQKAKEVAEVSPLSAANMSIAVKEQKQKQPAKSVWEQRTS  
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AAEPTVDQRLGQQAEDFLRKQARYHDRARDPSGSAGLDARRPWAGSQAELSREGPYGR  
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EDKERRHRRRKENQSGSVPSGNLSTTRPIQQDLGRQDPPLAEDIDNMKNNKLATAESA  
APHGSLGHAGLPQSPAKMGNSTDPGPMLAIPAMATNPQNAASRRTNPNPGNPSNPGPPKT  
PENSLIVTNPSGTQTNSAKTARKPDHTTVDIPPACPPPLNHTVVQVNKNANPDPLPKKEE  
EKKEEEEDDRGEDGPKMPYPYSSMFIILSTTNPLRRLCHYILNLYFEMCILMVIAMSSIA  
LAAEDPVQPNAPRNNVRLRYFDYVFTGVFTFEMVIKIDLGLVLHQGAYFRDLWNILDFIV  
VSGALVAFATGNSKGKDINTIKSLRVLRLPLKTIKRLPKLKAVFDCVVNSLKNVFN  
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QFVVSPPFEYTIMAMIALNTIVLMMKFYGASVAYENALRVFNIVFTSLFSLECVLKVMAF  
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LLWTFVQSFKALPYVCLLIAMLFFIYAIIGMQVFGNIGIDVEDEDSDEDEFQITEHNNFR  
TFFQALMLLFRSATGEAWHNIMLSCLSGKPCDKNSGILTRECGNEFAYFYFVSFIFLCSF  
LMLNLFVAVIMDNFEYLTRDSSILGPHHLDEYVRVWAEYDPAAWGRMPYLDYQMLRHMS  
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NQRRRGRPRGNNLSTISDTPMKRSASVLGPKARRLDDYSLERVPEENQRHHQRRRDRS  
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>sp|Q00975|CAC1B\_HUMAN Voltage-dependent N-type calcium channel subunit alpha-1B OS=Homo  
sapiens GN=CACNA1B PE=1 SV=1

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GLEFYMGKFHKACFPNSTDAEPVGDFPCGKEAPARLCEGDTECREYWPGPNFGITNFDNI  
LFAILTVFQCITMEGWDILYNTNDAAGNTWNWLYFIPLIIIGSFFMLNLVLGVLSGEFA  
KERERVENRRAFLKLRRQQIERELNGYLEWIFKAEVMLAEEDRNAEEKSPLDVLKRAA  
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SLLNSMKSIIISLLFLLFLFIVVFALLGMQLFGGQFNQDETPPTNFDTFPAAILTVFQIL  
TGEDWNAVMYHGIESQGGVSKGMFSSFYFIVLTLFGNYTLLNVFLAIAVDNLANAQELTK  
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GPRAGPREAESGEPPARRHRARHKAQPAHEAVEKETTEKEATEKEAEIVEADKEKELRNH  
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RFCHYIVTMRYFEVVLVIALSSIALAAEDPVRTDSPRNALKYLDYIFTGVFTFEMVI  
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DFAISAKPLTRYMPQNRQSFQYKTWTFVVSPPFEYFIMAMIALNTVVLMMKFYDAPYEYE  
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FINLSFLRLFRAARLIKLLRQGYTIRILLWTFVQSFKALPYVCLLIAMLFFIYAIIGMQV  
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SDFAYFYFVSFIFLCSFLMLNLFVAVIMDNFEYLTRDSSILGPHHLDEFIRVWAEYDPAA  
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TALEIKLAPAGTKQHQCDAELRKEISVVWANLPQKTLDLLVPPHKPDEM TVGKVYAALMI  
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HPQSGSVNGSPLLSTSGASTPGRGGRRQLPQTPLTPRPSITYKTANSSPIHFAGAQTSL  
PAFSPGRLSRGLSEHNALLQRDPLSQPLAPGSRIGSDPYLGQRLDSEASVHALPEDTLTF  
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>sp|Q13936|CAC1C\_HUMAN Voltage-dependent L-type calcium channel subunit alpha-1C OS=Homo  
sapiens GN=CACNA1C PE=1 SV=4

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VEWKPF EIIILLTIFANCVALAIYIPFPEDDSNATNSNLERVEYLFLLIFTVEAFLK VIA  
YGLLFHPNAYLRNGWNLLDFIIVVVLGFSAIL EQATKADGANALGGKGAGFDVKALRAFR  
VLRPLRLVSGVPSLQVVLNSIIKAMVPLLHIALLVLFVIIYAIIGLELFMGKMHKTCYN  
QEG IADVPAEDDPSPCALETGHRQCQNGTVCKPGWDGPKHGITNFDNFAFAMLT VFQCI  
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FQKLREKQQL EEDLKG YLDWITQAEDIDPENEDEGMDEEKPRNMSMPTSETESVNTENVA  
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LETILVETKIMSPLGISVLRVCVRLLRIFKITRYWNSLSNLVASLLNSVRSIASLLLLLFL  
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RVLRPLRAINRAKGLKHVVQCVFAIR TIGNIVIVTTLLQFMFACIGVQLFKGKLYTCSD  
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LYRSIDSHTEDKGPIYN YRVEISIFFIIYIIIIAFFMMNIFVGFVIVTFQE QGEYKNC  
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SETNH YFCDAWNTFDALIVVGSIVDIAITEVNPAEHTQCSPSMNAEENSRI SITFFRLFR  
VMRLVKLLSRGEGIR TLLWTFIKSFQALPYVALLIVMLFFIYAVIGMQVFGKIALNDTTE  
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VFYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKRIWAEYDPEAKGRI  
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KTEGNLEQANEELRAIIKKIWKRTSMKLLDQVVPAGDDEVTVGKFYATFLIQEYFRKFK  
KRKEQGLVGKPSQRNALS LQAGLRTLHDIGPEIRRAISGDLTAE EELDKAMKEAVSAASE  
DDIFRRAGGLFGNHVSYYQSDGRSAFPQTFTTQRPLHINKAGSSQGDTESPSHEKLV DST  
FTPSSYSSTGSNANINNNANTALGRLPRPAGYPSTVSTVEGHGPPLSPAIRVQEV AWKLS

SNRERHVPCEDELELRDSDSGSAGTQAHCLLLRKANPSRCHSRESQAAMAGQEETSQDETY  
EVKMNHDTEACSEPSLLSTEMLSYQDDENRQLTLPEEDKRDIRQSPKRGFLRSASLGRRRA  
SFHLECLKRQKDRGGDISQKTVLPLHLVHHQALAVAGLSPLLQRSHSPASFPRPFATPPA  
TPGSRGWPPQPVPVTLRLEGVESSEKLNSSFPSIHCGSWAETTPGGGGSSAARRVRPVSLM  
VPSQAGAPGRQFHGSASSLVEAVLISEGLGQFAQDPKFIEVTTQELADACDMTIEEMESA  
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>sp|060840|CAC1F\_HUMAN Voltage-dependent L-type calcium channel subunit alpha-1F OS=Homo  
sapiens GN=CACNA1F PE=1 SV=2

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NTANHNLEQVEYVFLVIFTVETVLKIVAYGLVLHPSAYIRNGWNLLDFIIVVVGLFSVLL  
EQGPGRPGDAPHTGGKPGGFDVKALRAFRVLRPLRLVSGVPSLHIVLNSIMKALVPLLHI  
ALLVLFVIIIIYAIIGLELFLGRMHKTCYFLGSDMEAEEDPSPCASSGSGRACTLNQTECR  
GRWPGPNGGITNFDNFFFAMLTVFQCVTMEGWTDVLYWMQDAMGYELPWVYFVSLVIFGS  
FFVLNLVLGVLSGEFSKEREKAKARGDFQKQREKQQMEEDLRGYLDWITQAEELDMEDPS  
ADDNLGSMAEGRAGHRPQLAELTNRRRGRLRWFSHSTRSTHSTSSHASLPASDTGSMTE  
TQGEDEEEEGALASCTRCLNKIMKTRVCRRLRRANRVLRARCRRAVKSACYNACWAVLLLVF  
LNTLTIASEHHGQPVLWTQIQEYANKVLLCLFTVEMLLKLYGLGPSAYVSSFFNRFD CFV  
VCGGILETTLVEVGAMQPLGISVLRVRLRIFKVTRHWASLSNLVASLLNSMKSIASLL  
LLLFLFIIIFSLLGMQLFGGKFNFDQHTKRSTFDTFPQALLTVFQILTGEDWNVVMYDG  
IMAYGGPFFPGMLVCIYFIILFICGNYILLNVFLAIAVDNLASGDAGTAKDKGGEKSNEK  
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KVVP IPEGSAFFCLSQTNP LRGCHTLIHHHVFTNLILVFIILSSVSLAAEDPIRAHSFR  
NHILGYFDYAFTSIFTVEILLKMTVFGAFLHRGSFCRSWFNMLDLLVSVSLISFGIHSS  
AISVVKILRVLRVLRPLRAINRAKGLKHVVQCVFVAIRTIGNIMIVTLLQFMFACIGVQ  
LFKGKFYTCTDEAKHTPQECKGSFLVYPDGDVSRPLVRERLWVNSDFNFDNVLSAMMALF  
TVSTFEGWPALLYKAIDAYAEDHGPIYNYRVEISVFFIVYIIIIAFFMMNIFVGFVITF  
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IVVGSIVDIAVTEVNNGGHLGESSEDSSRISITFFRLFRVMRLVKLLSKGEGIRTLLWTF  
IKSFQALPYVALLIAMIFFIYAVIGMQMFGKVALQDGTQINRNNNFQTFPQAVLLLFRCA  
TGEAWQEIMLASLPGNRCDPESDFGPGEFTCGSNFAIAYFISFFMLCAFLIINLFAVI  
MDNFDYLTRDWSILGPHHLDEFKRIWSEYDPGAKGRIKHLDVALLRRIQPPLGFGKLCF  
HRVACKRLVAMNPLNSDGTVTFNATL FALVRTSLKIKTEGNLEQANQELRIVIKKIWK  
MKQKLLDEVIPPPDEEEVTVGKFYATFLIQDYFRKFRRRKEKGLLGNDAA PSTSSALQAG  
LRSLQDLGP EMRQALTCDEEEEEEGQEGVEEEDKDLTNKATMVSQPSARRGSGISVS  
LPVGDRLPDSLSFGPSDDDRGTP TSSQPSVPQAGSNTHRRGSGALIFTIPEEGNSQPKGT  
KGQNKQDEDEEVPDRLSYLDEQAGTPPCSVLLPPHRAQRYMDGHLVPRRRLLPPTPAGRK  
PSFTIQCLQRQSGCEDLP IPGTYHRGRNSGPNRAQGSWATPPQRGRLLYAPLLLVEEGAA  
GEGYLGRSSGPLRTFTCLHVPGTHSDPSHGKRGADS LVEAVLISEGLGLFARDPRFVAL  
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>sp|095180|CAC1H\_HUMAN Voltage-dependent T-type calcium channel subunit alpha-1H OS=Homo  
sapiens GN=CACNA1H PE=1 SV=4

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RPCEDVECGSERCNILEAFDAFIFAFFAVEMVIKMVALGLFGQKCYLGDTWNRLDFFIVV  
AGMMEYSLDGHNVSLSAIRTVRVLRLRAINRVPSMRILVTLLDTPMLGNVLLLCFFV  
FFIFGIVGVQLWAGLLRNRCFLDSAFVRNNNLTLFRPYYQTEEGEENPFICSSRRDNGMQ  
KCSHIPGRRELMPCTLGWEAYTQPPAEGVGAARNACINWNQYNNVCRSGDSNPHNGAIN  
FDNIGYAWIAIFQVITLEGWVDIMYYVMDAHSFYNFYIFILLIIVGSFFMINLCLVVIAT  
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RWQSRWRKKVDPSAVQGQGPGRQRARRAGHTASVHHLVYHHHHHHHHHYHFSHGSPRRPG  
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SLRLATGLGTMNYPTILPSGVSGKGSTSPGPKGKWAGGPPGTGGHGPLSLNSPDPIEKI  
PHVVGHEHLGQAPGHL SGLSVPCLPSPAGTLTCELKSCPYCTRALEDPEGELSGSESG  
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TFSGKLRRIVDSKYFSRGIMMAILVNTLSMGVEYHEQPEELTNALEISNIVFTSMFALEM  
LLKLLACGPLGYIRNPYNIFDGIIVVISVWEIVGQADGGLSVLRTFRLLRVLKLVRFLPA  
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CRQHQAEEARRREEKRLRRLERRRRSTFPSPEAQRPPYADYSPTRRSIHSLECTSHYLD  
LFITFIICVNVITMSMEHYNPKSLDEALKYCNYVFTIVFVFEAALKLVAFGFRFFKDR  
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VSRMLSLPNDSYMRFPVPASAPHRPLQEVEMETYGAGTPLGSVASVHSPPAESCASLQ  
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GEKTPVRPVTQGGSLQSPRSPRPASVRTRKHTFGQRCVSSRPAAPGGEEAEASDPADEE  
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GSGEPGEAKAWGPEAPALGARRKKKMSPPCISVEPPAEDEGSARPSAAEGGSTTLRRRT  
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>sp|P55291|CAD15\_HUMAN Cadherin-15 OS=Homo sapiens GN=CDH15 PE=1 SV=1

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WLQVDAATGRIQTQHVLSPASPFLKGGWYRAIVLAQDDASQPRTATGTLSEILEVNDHA  
PVLAPPPPGSLCSEPHQGPGLLLGATDEDLPPHGAPFHFQLSPRLPELGRNWSLSQVNVS  
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GLSLGALVIVLASALLLVLLVALRARFWKQSRGKGLLHGPQDDL RDNV LNYDEQGGG  
EEDQDAYDISQLRHPTALSPLGPPPLRRDAPQGR LHPPRVLP TSPLDIADFINDGLE  
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>sp|Q12864|CAD17\_HUMAN Cadherin-17 OS=Homo sapiens GN=CDH17 PE=2 SV=3

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ELTGETDNIFVIEREGLLYYNRALDRETRSTHNLQVAALDANGIIVEGPVPITIKVKDIN  
DNRPTFLQSKYEGSVRQNSRPGKPF LYVNATDLDDPATPNGQLYYQIVIQ LPMINNVMYF  
QINNKTGAISLTREGSQELNPAKNPSYNLVISVKDMGGQSENSFSDTTSVDIIVTENIWK  
APKPVEMVENSTDPHPKITQVRWNDPGAQYSLVDKEKLPRFPFSIDQEGDIYVTQPLDR  
EEKDAYVVFYAVAKDEYGKPLSYPLEIHVKVKDINDNPPTCSPVTVFEVQENERLGNSIG  
TLTAHDRDEENTANSFLNYRIVEQTPKLPMDGLFLIQTYAGMLQLAKQSLKKQDTPQYNL  
TIEVSDKDFKTLCFVQINVIDINDQIPIFEKSDYGNLTLAEDTNIGSTILTIQATDADEP  
FTGSSKILYHIKGDSEGR LGVTD PHTNTGYV I IKKPLDFETA AVSNIVFKAENPEPLV  
FGVKYNASSFAKFTLIVTDVNEAPQFSQHVFQAKVSEDVAIGTKVGNVTAKDPEGLDISY  
SLRGDTRGWLKIDHTGEIFSVAPLDREAGSPYRVQVATEVGGSSLSVSEFHLILMDV  
NDNPPRLAKDYTG LFFCHPLSAPGSLIFEATDDQHLFRGPHFTFSLGSGSLQNDWEVSK  
INGTHARLSTRHTEFEEREYVVLIRINDGGRPPLEGIVSLPVTF CSCVEGSCFRPAGHQT  
GIPTVGMAVGILLTLLVIGIILAVVFIRIKKDKGKDNVESAQASEVKPLRS

>sp|Q8N3J6|CADM2\_HUMAN Cell adhesion molecule 2 OS=Homo sapiens GN=CADM2 PE=2 SV=1

MIWKRSVLRFYSVCGLLQLGSQGQFPLTQNVTVVEGGTAILTCRVDQNDNTSLQWSNPA  
QQTLYFDDKKALRDNRIELVRASWHELISVSDVSLSDEGQYTCSLFTMPVKTSKAYLTV  
LGVPEKPQISGFSSPVMEGDLMQLTCKTSGSKPAADIRWFKNDKEIKDVKYLKEEDANRK  
TFTVSSTLDFRVDSDDGVAVICRVDHESLNATPQVAMQVLEIHYPSPVKIIPSTPPFPQE  
GQPLILTCESKGKPLPEPVLTWDGGELPD PDRMVVSGRELNILFLNKTDNGTYRCEATN  
TIGQSSAEYVLIVHDPNTLLPTTIIPSLTTATVTTTVAITTSPTTSATTSSIRDPNALA  
GQNGPDHALIGGIVAVVVVFTLCSIFLLGRYLARHKGYLTNEAKGAEDAPDADTAIINA  
EGSQVNAEEKKEYFI

>sp|Q9NS85|CAH10\_HUMAN Carbonic anhydrase-related protein 10 OS=Homo sapiens GN=CA10 PE=2  
SV=1

MEIVWEVLFLLQANFIVCISAQQNSPKIHEGWWAYKEVVQGSFVPVPSFWGLVNSAWNLC  
SVGKRQSPVNIETSHMIFDPFLTPLRINTGGRKVS GMTMYNTGRHVSRLDKEHLVNISGG  
PMTYSHRLEEIRLHFGSEDSQGEHLNGQAFSGEVQLIHYNHELYTNVTEAAKSPNGLV  
VVSIFIKVSDSSNPFLNRMLNRDTITRITYKNDAYLLQGLNIEELYPETSSFITYDGSM T  
IPPCYETASWIIMNKPVIITRMQMHSRLLSQNQPSQIFLSMSDNFRPVQPLNNRCIRTN  
INFSLQGKDCPNNRAQKLQYRVNEWLLK

>sp|Q8N1Q1|CAH13\_HUMAN Carbonic anhydrase 13 OS=Homo sapiens GN=CA13 PE=1 SV=1

MSRLSWGYPREHNGPIHWKEFFPIADGDQQSPIEIKTKEVKYDSSLRPLSIKYDPSSAKII  
SNSGHSFNVDFFDTENKSVLRGGPLTGSYRLRQVHLHWGSADDHGSEHIVDGVSYAAELH  
VVHWNSDKYPSFVEAAHEPDGLAVLGVLQIGEPNSQLQKITDLDLSIKEKGKQTRFTNF  
DLLSLLPPSWDYWTYPGSLTVPPLLESVTWIVLKQPINISSQQLAKFRSLLCTAEGEAAA  
FLVSNHRPPQPLKGRKVRASFH

>sp|P10092|CALCB\_HUMAN Calcitonin gene-related peptide 2 OS=Homo sapiens GN=CALCB PE=1 SV=1

MGFRKFSPFLALSILVLYQAGSLQAAPFRSALESSPDPATLSKEDARLLAALVQDYVQM  
KASELKQEETQGSSSAAQKRACNTATCVTHRLAGLLSRSGGMVKS NFVPTNVGSKAFGR  
RRRDLQA

>sp|Q96L12|CALR3\_HUMAN Calreticulin-3 OS=Homo sapiens GN=CALR3 PE=1 SV=2

MARALVQLWAICMLRVALATVYFQEEFLDGEHWRNRWLQSTNDSRFGHFRSSGKFYGHK  
EKDKGLQTTQNGRFYAISARFKPFSNKGKTLVIQYTVKHEQKMDCGGGYIKVFPADIDQK  
NLNGKSQYYIMFGPDICGFDIKKVHVILHFKNKYHENKKLIRCKVDGFTHLYTLILRPDL  
SYDVKIDGQSIESGSIEYDWNLTSLKKETSPAESKDWEQTKDNKAQDWEKHFLDASTSKQ  
SDWNGDLGDGWPAPMLQKPPYQDGLKPEGIHKDVWLHRKMKNTDYLTYDLSEFENIGAI  
GLELWQVRSGTIFDNFLTDDDEEYADNFGKATWGETKGPEREMDAIQAKEEMKKAREEEEE  
EELLSGKINRHEHYFNQFHRNEL

>sp|Q16602|CALRL\_HUMAN Calcitonin gene-related peptide type 1 receptor OS=Homo sapiens  
GN=CALCRL PE=1 SV=2

MEKKCTLNFLVLLPFFMILVTAELEESPEDSIQLGVTRNKIMTAQYECYQKIMQDPQQQA  
EGVYCNRTWDGWLWNDAAGTESMQLCPDYFQDFDPSEKVTIKCDQDGNWFRHPASNRT  
WTNYTQCQNVNTHEKVKTALNLFYLTIIHGGLSIALLLISLGIFFYFKSLSCQRITLHKNL  
FFSFVCNSVVTIIHLTAVANNQALVATNPVSCKVSQFIHLYLMGCNYFWMLCEGIYHLTL  
IVVAVFAEKQHLMWYYFLGWGFLIPACIHAIARSLYYNDNCWISSDTHLLYIIHGPICA  
ALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIQFVLPWRPEGKI  
AEEVYDYIMHILMHFQGLLVSTIFCFFNGEVQAILRRNWNQYKIQFGNSFSNSEALRSAS  
YTVSTISDGPYSHDCPSEHLNGKSIHDIENVLLKPENLYN

>sp|P49069|CAMLG\_HUMAN Calcium signal-modulating cyclophilin ligand OS=Homo sapiens  
GN=CAMLG PE=1 SV=1

MESMAVATDGGERPVPAGSGLSASQRRRAELRRRKLLMNSEQRINRIMGFHRPGSGAE  
SQTQSKQDSDKLNLSVPSVSKRVVLGDSVSTGTTDQGGVAEVKGTQLGDKLDSFIKP  
PECSSDVNLELRQRNRGDLTADSVQRGSRHGLEQYLSRFEEAMKLKQLISEKPSQEDGN  
TTEEFDSFRIFRLVGCALLALGVRAFVCKYLSIFAPFLTLQLAYMGLYKYPKSEKKIKT  
TVLTAALLSGIPAEVINRSMDTYSKMGEVFTDLCVYFFTFIFCHELLDYWGSEVP

>sp|Q08AD1|CAMP2\_HUMAN Calmodulin-regulated spectrin-associated protein 2 OS=Homo sapiens  
GN=CAMSAP2 PE=1 SV=3

MGDAADPREMRKTFIVPAIKPFDHYDFSRAKIACNLAWLVAKAFGTENVPEELQEPFYTD  
QYDQEHKPPVNVNLLSAELYCRAGSLILKSDAKPLLGHDAVIQALAQKGLYVTDQEK  
VTERDLHKKPIQMSAHLAMIDTLMAYTVEMVSIEKVIACAQQYSAFFQATDLPYDIEDA  
VMYWINKVNEHLKDIMEQEQLKEHHTVEAPGGQKSPSKWFWKLVPARYRKEQTLLKQLP  
CIPLVENLLKDGTDGCALAALIHFYCPDVVRLEDICLKETMSLADSLYNQLIQEFCQEY  
LNQCCHFTLEDMLYAASSIKSNYLVFMAELFWWFEVVKPSFVQPRVVRPQGAEPVKDMPS  
IPVLNAAKRNVLDSSEDFPSSGEGATFTQSHHHLPSRYSRPQAHSSASGGIRRSSMSYV



DGFIGTWPKEKRSSVHGVSFDISFDKEDSVQRSTPNRGITRSISNEGLTLNNSHVSKHIR  
KNLSFKPINGEEEAESIEEELNIDSHSDLKSCVPLNTNELNSNENIHYKLPNGALQNRIL  
LDEFGNQIETPSIEEALQIIHDTEKSPHTPQPDQIANGFFLHSQEMSILNSNIKLNQSSP  
DNVTDTKGALSPITDNTEDVTGIHVPSEDI PETMDEDSSLRDYTVSLDSDMDDASKFLQD  
YDIRTGNTREALSPCPSTVSTKSQPGSSASSSSGVKMTSFAEQKFRKLNHTDGKSSGSSS  
QKTTPEGSELNIPHVVAWAQIPEETGLPQGRDTTQLLASEMVHLRMKLEEKRRRAIEAQKK  
KMEAAFTKQRQKMGRTAFLTVVKKKGDISPLREEAAGAEDEKVYTDRAKEKESQKTDGQ  
RSKSLADIKESMENPQAKWLKSPTTPIDPEKQWNLASPSEETLNEGEILEYTKSIEKLNS  
SLHFLQQEMQRLSLQQEMLMQMREQQSWVISPPQSPQKQIRDFKPSKQAGLSSAIAPFS  
SDSPRPHSPSQSSNRKSASFVKSQRTPRPNELKITPLNRTLTPRSVDSLPRLRRFSP  
SQVPIQTRSFVCFGDDGEPQLKESKPKKEEVKKEELESKGTLEQRGHNPEEKEIKPFESTV  
SEVLSLPVTETVCLTPNEDQLNQPTPPPKPVFPPTAPKNVNLIEVSLSDLKPPEKADVP  
VEKYDGESDKEQFDDQKVCCGFFFKDDQKAENDMAMKRAALLEKRLRREKETQLRKQQL  
EAEMEHKKEETRRKTEERQKKEDERARREFIRQEYMRKQLKLMEDMDTVIKPRPVVK  
QKKQRPKSIHRDHIESPKTPIKGPPVSSLSLASLNTGDNESVHSGKRTPRSESVEGFLSP  
SRCGSRNGEKDWENASTTSSVASGTEYTGPKLYKEPSAKSNKHIIQNALAHCCLAGKVNE  
GQKKKILEEMEKSDANNFLILFRDSGCQFRSLYTYCPETEEINKLTGIGPKSITKKMIEG  
LYKYNSDRKQFSHIPAKTLSASVDAITIHSWLQTKRPVTPKLLPTKA

>sp|P49913|CAMP\_HUMAN Cathelicidin antimicrobial peptide OS=Homo sapiens GN=CAMP PE=1  
SV=1

MKTQRDGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLLD  
LDPRPTMDGDPDTPKPVSTVKTVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGS  
FDISCDKDNKRFALLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES

>sp|Q9UMQ6|CAN11\_HUMAN Calpain-11 OS=Homo sapiens GN=CAPN11 PE=2 SV=2

MLYSPGPSLPESAESLDGSQEDKPRGSCAETFTDTGMVAHINNSRLKAKGVGQHDNAQN  
FGNQSFEELEAACLKRGELFEDPLFPAEPSSLGFKDLGPNSKNVQNISWQRPKDIINNPL  
FIMDGISPTDICQGILGDCWLLAAIGSLTTCPKLLYRVVPRGQSFKKNYAGIFHFQIWQF  
GQWVNVVDDRLPTKNDKLVFVHSTERSEFWSALLEKAYAKLSGSYEALSGGSTMEGLED  
FTGGAQSFQLQRPPQNLRLRLKAVERSSLMGCSIEVTSDELESMTDKMLVRGHAYSV  
TGLQDVHYRGKMETLIRVRNPWGRIEWNGAWSDSAREWEEVASDIQMQLLHKTEDGEFWM  
SYQDFLNNFTLLEICNLTPDTLSGDYKSYWHTTFYEGSWRRGSSAGGCRNHPGTFTWNPQ  
FKISLPEGDDPEDDAEGNVVCTCLVALMQKNWRHARQGAQLQTIGFVLYAVPKEFQNI  
QDVHLKKEFFTKYQDHGFSEIFTNSREVSSQLRLPPGEYIIIPSTFEPHRDADFLRVFT  
EKHSESWEDEVNYAEQLQEEKVSEDDMDQDFLHLFKIVAGEGKEIGVYELQRLNRMAL  
KFKSFKTKGFLDACRCMINLMDKDGSGKLGLLEFKILWKKLKKWMDIFRECDQDHSCTL  
NSYEMRLVIEKAGIKLNNKVMQVLVARYADDDLIIDFDSFISCFRLKTMFTFFLTMDPK  
NTGHICLSLEQWLQMTMWG

>sp|075808|CAN15\_HUMAN Calpain-15 OS=Homo sapiens GN=CAPN15 PE=1 SV=1

MATVGEWSCVRCTFLNPAGQRQCSICEAPRHKPDNLHILRLSVEEQKWPCARCTFRNFLG  
KEACEVCGFTPEPAPGAFLPVLNGVLPKPPAILGEPKGSCQEEAGPVRTAGLVATEPAR  
GQCEDKDEEEKEEQEEEEGAEPGGWACPRCTLHNTPVASSCSVCGGPRRLSLPRIPPE  
ALVVPVVAPAGFHVPAAPPPGLPGEAEANPPATSQGPAAEPEPPRVPPFSPFSSTLQ  
NNPVPRSRREVPPQLQPPVPEAAQPSPSAGCRGAPQGSWAGASRLAELLSGKRLSVLEE  
EATEGGTSRVEAGSSTSGSDIIDLAGDTVRYTPASPSSPDFTTWSCAKCTLRNPTVAPRC

SACGCSKLHGFQEHGEPPTHCPDCGADKPSPCGRSCGRVSSAQKAARVLPERPGQWACPA  
CTLLNALRAKHCAACHTPQLLVAQRRGAAPLRRRESMHVEQRRQTDEGEAKALWENIVAF  
CRENNVSFVDDSFPPGPESVGFAPGDSVQQVRQWLRPQEINCSVFRDHRATWSVFHTLR  
PSDILQGLLGNCWFLSALAVLAERPDLVERVMVTRSLCAEGAYQVRLCKDGTWTTVLVDD  
MLPCDEAGCLLFSQAQRKQLWVALIEKALAKLHGSYFALQAGRAIEGLATLTGAPCESLA  
LQLSSTNPREEPVDTLIWAQMLSSKEAGFLMGASCGGGMKVDDSDAYESLGLRPRHAYS  
ILDVRDVQGTRLLRLRNPWGRFSWNGSWSEWPHWPGHLRGELMPHGSSEGVFWMEYGDF  
VRYFDSVDICKVHSDWQEARVQGCFPSASAPVGTALTVLERASLEFALFQEGSRRSDA  
VDSHLLDLCILVFRATFGSGGHLGLRLLAHSKRAVKKFVSCDVMLEPGEYAVVCCAFNH  
WGPPLPGTPAPQASSPSAGVPRASPEPPGHVLAVYSSRLVMEPVEAQPTTLADAIILLT  
ESRGERHEGREGMTCYYLTHGWAGLIVVENRHPKAYLHVQCDCTDSFNVVSTRGSLRTQ  
DSVPPLHRQVLVILSQLEGNAGFSITHRLAHRKAAQAFSLDWTASKGTHSPPLTPEVAGL  
HGPRPL

>sp|Q9Y6Q1|CAN6\_HUMAN Calpain-6 OS=Homo sapiens GN=CAPN6 PE=1 SV=2

MGPPLKLFKNQKYQELKQECIKDSRLFCDPFLPENDSLFYNRLPGKVWKRQDICDD  
PHLIVGNISNHQLTQGRLGHKPMVSAFSLAVQESHWTKTIPNHKEQEWDPQKTEKYAGI  
FHFrfWHFGEWTEVVIDDLPTINGDLVFSFSTSMNEFWNALLEKAYAKLLGCYEALDGL  
TITDIIVDFTGTLAETVDMQKGRYTELVEEKYKLFGELYKFTKGGLICCSIESPNQEEQ  
EVETDWGLLKGHYTMDIRKIRLGERLVEVFSAEKVYMVRLRNPLGRQEWSGPWSEISE  
EWQQLTASDRKNLGLVMSDDGEFWSLEDFCRNFHKLNVCRNVNNPIFGRKELESVLGCW  
TVDDDDPLMNRSGGCYNRDTFLQNPQYIFTVPEDGHKVISLQKDLRTYRRMGRPDNYI  
IGFELFKVEMNRKFRLLHLYIQERAGTSTYIDTRTVFLSKYLKKNYVLVPTMFQHGRTS  
EFLLRIFSEVPVQLRELTLMPKMSCWNLARGYPKVVTQITVHSAEDLEKKYANETVNPY  
LVIKCGKEEVRSPVQKNTVHAIFDTQAIFYRRTTDIPIIIVQVWNSRKFCDQFLGQVTLDA  
DPSDCRDLKSLYLKKGGPTAKVKQGHISFKVISSDDLTEL

>sp|O14815|CAN9\_HUMAN Calpain-9 OS=Homo sapiens GN=CAPN9 PE=1 SV=1

MPYLIRAPGPAHPVPKDARITHSSGQSFEQMRQECLQRGTLFEDADFPASNSSLFYSER  
PQIPFVWKRPGEIVKNPEFILGGATRTDICQGELGDCWLLAAIASLTNLNQAARVIPQD  
QSFPGPYAGIFHFQFWQHSEWLDVVIDDRLPTFRDRLVFLHSADHNEFWSALEKAYAKL  
NGSYEALKGGSIAEMEDFTGGVAETFQTKAEPENFYEILEKALKRGSLLGCFIDTRSAA  
ESEARTPFGLIKGHAYSVTGIDQVSFRGQRIELIRIRNPWGQVEWNGSWSDSSPEWRSVG  
PAEQKRLCHTALDDGEFWMAFKDFKAHFDKVEICNLTPDALEEDAIIHKWEVTVHQGSWVR  
GSTAGGCRNFLDTFTWNPQIKLSLTEKDEGQEECSFLVALMQDKRRKLKRFGANVTIGY  
AIYECDPKDEHLNKDFFRYHASRARSKTFINLREVSDRFLPPGEYILIPSTFEPHQEAD  
FCLRIFSEKKAITRMDGNVDIDLPEPPKPTPPDQETEEEQRFRALFEQVAGEDMEVTAE  
ELEYVLNAVLQKKKDIKFKKLSLISCKNIIISLMDTSGNGKLEFDEFKVFWDKQKWINLF  
LRFADKSGTMSTYELRTALKAAGFQLSSHLLQLIVLRYADEELQLDFDDFLNCLVRLN  
ASRVFQALSTKNKEFIHLNINEFIHLTMNI

>sp|Q5XLA6|CAR17\_HUMAN Caspase recruitment domain-containing protein 17 OS=Homo sapiens  
GN=CARD17 PE=1 SV=1

MADKVLKEKRKQFIRSVGEGTINGLLGELLETRVLSQEEIEIVKCENATVMDKARALLDS  
VIRKGAPACQICITYICEEDSHLAGTLGLSAGPTSGNHLTTQDSQIVLPS

>sp|Q96LW7|CAR19\_HUMAN Caspase recruitment domain-containing protein 19 OS=Homo sapiens  
GN=CARD19 PE=1 SV=1

MTDQTYCDRLVQDTPFLTGHGRLSEQQVDRIILQLNRYYPQILTNKEAEKFRNPKASLRV  
RLCDLLSHLQRSGERDCQEFYRALYIHAQPLHSRLPSRHALRKFHITNHACLVLARGGHP  
SLPLMAWMSSMTTQVCCSPGLASPLASAPPQRPSPGPEGRVWQAQAVQMLVSVSHFLPLP  
PSLSHGSFHTAWGILYVHSCPSFSNLIPRGSLSHVCVDSNLVPTAAWRS

>sp|Q9Y2G2|CARD8\_HUMAN Caspase recruitment domain-containing protein 8 OS=Homo sapiens  
GN=CARD8 PE=1 SV=1

MMRQRQSHYCSVLFLSVNYLGGTFPGDICSEENQIVSSYASKVCFEIEEDYKNRQFLGPE  
GNVDVELIDKSTNRYSVWFPTAGWYLSATGLGLVLRDEVTVTIAFGSWSQHLALDLQHH  
EQWLVGGLPLFDVTAEPPEEAVAEIHLPHFISLQGEVDVSWFLVAHFKNMGVLEHPARVEP  
FYAVLESPSFSLMGILLRIASGTRLSIPITSNTLIYYHPHPEDIKFHLYLVPSDALLTKA  
IDDEEDRFHGVRLQTSPPMEPLNFGSSYIVSNSANLKVMPKELKLSYRSPGEIQHFSKFY  
AGQMKEPIQLEITEKRHGTLVWDETEVKPVDLQLVAASAPPPFSGAAFVKENHRQLQARMG  
DLKGVLDLQDNEVLTENEKELVEQEKTRQSKNEALLSMVEKKGDLALDVLFRSISERDP  
YLVSYLRQQNL

>sp|Q9H257|CARD9\_HUMAN Caspase recruitment domain-containing protein 9 OS=Homo sapiens  
GN=CARD9 PE=1 SV=2

MSDYENDECSVLEGFRTLTSTVIDPSRITPYLRQCKVLNPDDEEQVLSDPNLVIRKRV  
VGVLLDILQRTGHKGYVAFLESLELYYPQLYKKVTGKEPARVFSMIIDASGESGLTQLLM  
TEVMKLQKKVQDLTALLSSKDDFIKELRVKDSLLRKHQERVQRLKEECEAGSRELKRCKE  
ENYDLAMRLAHQSEEKGAALMRNRDLQLEIDQLKHSMLKAEDDCKVERKHTLKL RHAMEQ  
RPSQELLWELQKEKALLQARVQELEASVQEGKLDRSSPYIQVLEEDWRQALRDHQQANT  
IFSLRKDLRQGEARRLRCEEMEFELQCLALRKDSKMYKDRIEAILQMEEVAIERDQA  
IATREELHAQHARGLQEKDALRKQVRELGEKADELQLQVFQCEAQLLAVEGRLRRQQLET  
LVLSSDLEDGSPRRSQELSLPQDLEDTLSDKGCLAGGGSPKQPFAALHQEVLRNPHDA  
GLSSGEPPEKERRRLKESFENYRRKRALRMQKQWRQGEEDRENTTGS DNTDTEGS

>sp|Q13938|CAYP1\_HUMAN Calcyphosin OS=Homo sapiens GN=CAPS PE=1 SV=1

MDAVDATMEKLRAQCLSRGASGIQGLARFFRQLDRDGSRLDADEFQGLAKLGLVLDQA  
EAEGVCRKWDRNGSGTLDLEEFRLALRPPMSQAREAVIAAFAKLDRSGDGVTVDDLRG  
VYSGRAHPKVRSGEWTEDEVLRRLDNFDSSEKDGQVTLAEFQDYYSVGSASMTTDEEFV  
AMMTSAWQL

>sp|P52907|CAZA1\_HUMAN F-actin-capping protein subunit alpha-1 OS=Homo sapiens GN=CAPZA1  
PE=1 SV=3

MADFDDRVSDEEKVRIAAKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNMD  
QFTPVKIEGYEDQVLITEHGDLGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSW  
RESCDSALRAYVKDHYSNGFCTVYAKTIDGQQTIIACIESHQFQPKNFWNWRSEWKFT  
ITPPTAQVVGVLKIQVHYEDGNVQLVSHKDVQDSLTVSNEAQTAKEFIKIIENAENEYQ  
TAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

>sp|PODN79|CBSL\_HUMAN Cystathionine beta-synthase-like protein OS=Homo sapiens GN=CBSL  
PE=1 SV=1

MPSETPQAEVGPTGCPHRSGPHSAKGSLEKSPEDKEAKEPLWIRPDAPSRCTWQLGRPA  
SESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNAGGSVKD  
RISLRMIEDAERDGTLPKGDITIEPTSGNTGIGLALAAVRGYRCIIVMPEKMSSEKVDV  
LRALGAEIVRTPTNARFDSPESHVGVAWRLKNEIPNSHILDQYRNASNPLAHYDTTADDEI  
LQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIIGVDPEGSILAEPEELNQTEQTT

YEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLCGGSAGSTVAVAVKA  
AQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKEEDLTEKKPWWWHLRVQELGLS  
APLTVLPTITCGHTIEILREKGFDAQPVVDEAGVILGMVTLGNMLSSLLAGKVQPSDQVG  
KVIYKQFKQIRLTDTLGRLSHILEMDHFALVVHEQIQYHSTGKSSQRQMVFGVVT AIDLL  
NFVAAQERDQK

>sp|Q8IUF1|CBWD2\_HUMAN COBW domain-containing protein 2 OS=Homo sapiens GN=CBWD2 PE=2  
SV=1

MLPAVGSADEEEDPAEEDCPELVPMETTQSEEEKSGLGAKIPVTIITGYLGAGKTLLN  
YILTEQHSKRVAVILNEFGGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNLRAI  
ENLMQKKGKFYIILETTGLADPGAVASMFVDAELGSDIYLDGIITIVDSKYGLKHLAE  
EKP DGLINEATRQVALADAILINKTDLVPEEDVKKLRATIRSINGLGQILETQRSRVDLS  
NVLDLHAFDSLGSISLQKKLQHPVGTQPHLDQSIVTITFEVPGNAKEEHLNMFIQNLLWE  
KNVRNKDNHCMEVIRLKGLVSIKDKSQQVIVQGVHELYDLEETPVSWKDDTERTNRLVLL  
GRNLDDKILKQLFIATVTETEKQWTHFKEDQVCT

>sp|P13497|BMP1\_HUMAN Bone morphogenetic protein 1 OS=Homo sapiens GN=BMP1 PE=1 SV=2

MPGVARLPLLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDE  
EDLRAFQVQQAVDLRRHTARKSSIKAAPVGNSTPSCQSTNGQPQRGACGRWRGRSRSRR  
AATSRPERVWPDGVIPFVIGGNFTGSQRAVFRQAMRHWEKHTCVTFLERTDEDSYIVFTY  
RPCGCCSYVGRGGGPQAISIGKNCDFGIVVHELGHVVGFWHEHTRPDRDRHVSIVREN  
IQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG  
QRTRL SKGDIAQARKLYKPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKI  
ILNFTSLDLYRSRLCWYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSS  
NWVGKGFFAVYEAICGGDVKKDYGHIQSPNYPDDYRPSKVCIWRIQVSEGFHVGLTFQSF  
EIERHDS CAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRLWKFVSDGSINKAGF  
AVNFFKEVDECSRPNRGGCEQRCLNTLGSYKCSCDPGYELAPDKRCEAACGGFLTKLNG  
SITSPGWPKEYPPNKNCIWQLVAPTQYRISLQFDFETEGNDVCKYDFVEVRSGLTADSK  
LHGKFCGSEKPEVITSQYNNMRVEFKSDNTVSKKGFKAHFFSDKDECSKDNGGCQQDCVN  
TFGSYECQCRSGFVLHDNKHDCKEAGCDHKVTSTSGTITSPNWPDKYPSKKECTWAISS  
PGHRVKLTFMEMDIESQPECAYDHLEVF DGRDAKAPVLGRFCGSKKPEPVLATGSRMFLR  
FYSDNSVQRKGFQASHATECGQVRADVKT KDLYSHAQFGDNYPGGVDCEWVIVAEEGY  
GVELVFQTFEVEEETDCGYDYME LFDGYDSTAPRLGRYCGSGPPEEVYSAGDSVLVKFHS  
DDTITKKGFHLRYTSTKFQDTLHSRK

>sp|P22004|BMP6\_HUMAN Bone morphogenetic protein 6 OS=Homo sapiens GN=BMP6 PE=1 SV=1

MPGLGRRAQWLCWWGLLSCCGPPPLRPPLPAAAAAAGGQLLG DGGSPGRTEQPPPPSP  
QSSSGFLYRRLKTQEKREMKEILSVLGLPHRPRPLHGLQQPQPPALRQQEEQQQQQLP  
RGEPPPGR LKSAPLFMLDLYNALSADNDEGASEGERQQSWPHEAASSQRRQPPPGAAH  
PLNRKSL LAPSGSGGASPLTSAQDSAFLNDADMVMSFVN LVEYDKEFSRQRHHKEFKF  
NLSQIPEGEVVTAAEFRIYKDCVMGSFKNQTF LISIYQVLQEHQHRSDLFLLDTRVVA  
SEEGWLEFDITATSNLWVVT PQHNMLQLSVVTRDGVHVHPRAAGLVGRDGPYDKQPFMV  
AFFKVSEVHVRTTRSASSRRRQQRNRSTQSQDVARVSSASDYNSELKTACRKHELYVS  
FQDLGWQDWIIAPKGYAANYCDGEC SFPLNAHMNATNHAIVQTLVHLMNPEYVPKPCCAP  
TKLNAISVLYFDDNSNVILKKYRNMVVRACGCH

>sp|Q13873|BMPR2\_HUMAN Bone morphogenetic protein receptor type-2 OS=Homo sapiens  
GN=BMPR2 PE=1 SV=2

>sp|Q6ZN30|BNC2\_HUMAN Zinc finger protein basoon-2 OS=Homo sapiens GN=BNC2 PE=1 SV=1  
MAHLGPTPPPHSLNYSKEDRLSEQDWPAYFKVPCCGVDTSQIESEAEVDVRRERETQRDR

EPKRARDLTLRDSCTDNSMQFGTRTTTAEPGFMGTWQNADTNLLFRMSQQAIRCTLVNCT  
CECFQPGKINLRTCDQCKHGWVAHALDKLSTQHLYHPTQVEIVQSNVVDISSLMLYGTQ  
AVPVRLKILLDRFLSVLKQEEVLHILHGLGWTLRDYVRGYILQDAAGKVLDRWAIMSREE  
EIIITLQQFLRFGETKSIVELMAIQEKGQAVAVPSSKTDSDIRTFIESNNRTRSPSLLAH  
LENSNPSSIHHFENIPNSLAFLLPFYINPVSAPLLGLPPNGLLLEQPGLRLREPSLSTQ  
NEYNESSESEVSPTPYKNDQTPNRNALTSITNVEPKTEPACVSPIQNSAPVSDLTKTEHP  
KSSFRIHRMRMGASARKGRVFCNACGKTFYDKGTLKIHYNVHLKIKHRCTIEGCNMVF  
SSLRSRNRHSANPNRLHMPMLRNNRDKDLIRATSGAATPVIASTKSNLALTSPGRPPMG  
FTTPPLDPVLQNPLPSQLVFSGLKTVQVPPFYRSLTPGEMVSPPTSLPTSPIIPTSGT  
IEQHPPPPSEPVPVAVMMATHEPSADLAPKKKPRKSSMPVKIEKEIIDTADEFDDEDDDP  
NDGGAVVNDMSHDNHCHSQEEMSPGMSVKDFSKHNTRCISRTEIRRADSMTSEDQEPER  
DYENESSESEPKLGEESMEGDEHIHSEVSEKVLNNSERPDENHSEPSHQDVIVKKEEFTD  
PTYDMFYMSQYGLYNGGGASMAALHESFTSSLNYGSPQKFSPEGDLCCSPDPKICYVCKK  
SFKSSYSVKLHYRNVHLKEMHVCTVAGCNAAFPSRRSRDRHSANINLHRKLLTKELDDMG  
LDSSQPSLSKDLRDEFLVKIYGAQHPMGLDVREDASSPAGTEDSHLNGYGRGMAEDYML  
DLSTTSSLQSSSIHSSRES DAGSDEGILLDDIDGASDSGESAHKAEAPALPGSLGAEVS  
GSLMFSSLSGSNGGIMCNICHKMYSNKGTLRVHYKTVHLREMHKCKVPGCNMMFSSVRSR  
NRHSQNPNLHKNIPFTSVD

>sp|Q6PGQ7|BORA\_HUMAN Protein aurora borealis OS=Homo sapiens GN=BORA PE=1 SV=2

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DQLAVINPVEIDPEDIHRQALYLSHRIDKDVEDKRQKAIEEFFTKDVIVPSPWTDHEGK  
QLSQCHSSKCTNINSDSPVGKKLTIHSEKSDAACQTLLSLPVDNFLENILGDYFRADEFA  
DQSPGNLSSSLRRKLFLDNGSGISDSLPSASPGSPHSGVQTSLEMFYSIDLSPVKCRSP  
LQTPSSGQFSSSPIQASAKKYSLSGITSPPISSTPSPIEFQIGETPLSEQRKFTVHSP  
DASSGTNSNGITNPCIRSPYIDGCSPIKNWSPMLQMYSGGTQYRTSVIPIPTLETQGE  
DEEDKENIPSTDVSSPAMDAAGIHLRQFSNEASTHGTHLVVTAMSVTQNSASEKELAL  
LQDVEREKDNNTVDMVDPIEIADETTWIKEPVDNGSLPMTDFVSGIAFSIENSHMCMSP  
AESSVIPCESSNIQMDSGYNTQNCGSNIMDTVGAESYCKESDAQTCVESEKSAFNMKQD  
HTTQRCWMKTASPFQCSSP

>sp|Q96GS4|BORC6\_HUMAN BLOC-1-related complex subunit 6 OS=Homo sapiens GN=BORCS6 PE=1 SV=2

MESSRGRPGPETDLLAVAHEQALVFGGGPGRTSSEPPAGLRVSGEETENVGGANRHPRT  
SPKTSSCGVVHRPEREALENEPGPQGTLSGAGSRRGAPGAEHEPSLSSRHKNPAPPEGKP  
SSGRDCRRGGPGGMDVEQQEEDNDEEAAAGSRAGRSFSSRLQDSRSLDGLSEACGGAG  
SSGSAESGAGGRRATISSPLELEGTVSRHGDLTGFVANNLQLKIRLSGAPPPPSAPAR  
PCPAPAPTPTPAIPPIDPEVLRDLERLSRELGGVRDRLRLGLGGAVQELTALSVGCIQTY  
RDAVDSLGEAVDMSIKGMYTLLARCEELERALQPVQGLARQVRDIRRTLEVLEALCK

>sp|O14613|BORG1\_HUMAN Cdc42 effector protein 2 OS=Homo sapiens GN=CDC42EP2 PE=1 SV=1

MSTKVPIYLKRGSRKGKKEKLRDLLSSDMISPPLGDFRHTIHIGSGGSDMFGDISFLQG  
KFHLLPGTMVEGPEEDGTFDLPFQFTRTATVCGRELDPGPSLLKNAISLPVIGGPQALT  
LPTAQAPPKPPRLHLETPQSPQEGGSVDIWRIPETGSPNSGLTPESGAEEPFLSNASSL  
LSLHVDLGPSILDDVLQIMDQDLDSMQIPT

>sp|P17213|BPI\_HUMAN Bactericidal permeability-increasing protein OS=Homo sapiens GN=BPI PE=1 SV=4

MRENMARGPCNAPRWASLMVLVAIGTAVTAAVNPVVVRISQKGLDYASQQGTAALQKEL  
KRIKIPDYSDSFKIKHLGKGHYSFYSDIREFQLPSSQISMVNVGLKFSISNANIKISG  
KWKAAQKRFLKMSGNFDLSIEGMSISADLKLGSNPTSGKPTITCSSCSSHINSVHVHISKS  
KVGWLIQLFHKKIESALRNKMNSQVCEKVTNSVSSELQPYFQTLPMVKIDSVAGINYGL  
VAPPATTAETLDVQMKGEFYSENHHNPPPFAPPVMEFPAAHDRMVYLGSDYFFNTAGLV  
YQEAGVLKMTLRDDMIPKESKFRLTTKFFGTFLPEVAKKFPNMKIQIHVSASTPPHLSVQ  
PTGLTFYPAVDVQAFVLPNSSLASLFLIGMHTGSMEVSAESNRLVGELKLDRLLELK  
HSNIGPPFVELLQDIMNYIVPILVLPVNEKLQKGFPLTPARVQLYNVVLQPHQNFLLF  
GADVYK

>sp|O15178|BRAC\_HUMAN Brachyury protein OS=Homo sapiens GN=T PE=1 SV=1

MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTN  
EMIVTKNGRRMFVLKVNVSGLDPNAMYSFLLDFVAADNHRWKYVNGEWWPGGKPEPQAP  
SCVYIHPDSPNFGAHWMKAPVSFSKVKLTKNLNGGGQIMLNSLHKYEPRIHIVRVGGPQR  
MITSHCFPETQFIAVTAYQNEEITALKIKYNPFAKAFLDAKERSDHKEMMEEPGDSQQPG  
YSQGWLLPGTSTLCPANPHPQFGGALSLPSTHSCDRYPTLRSHRSSPYPSPYAHNRNS  
PTYSDNSPACLSMLQSHDNWSSLGMPAHPSMLPVSHNASPTSSSQYPSLWSVSNGAVTP  
GSQAAAVSNGLGAQFFRGSPAHTYPTLTHPVSAPSSSGSPLYEGAAAATDIVDSQYDAAAQ  
GRLIASWTPVSPPSM

>sp|Q9HAW0|BRF2\_HUMAN Transcription factor IIIB 50 kDa subunit OS=Homo sapiens GN=BRF2  
PE=1 SV=1

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ENEQVSRSQQRGLRRVRDLCRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGC  
CVLITCRQHNWPLTMGAICTLLYADLDVFSSTYMQIVKLLGLDVPSLCLAEVLKTYCSSF  
KLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLVTRHPLPVITAATFLAWQSLQPA  
DRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLRDLKRSVVKHIGDL  
LQHRQSLVRSFRDGTAEVETREKEPPGWGQGQGEVGNNSLGLPQGKRPAASPALLPP  
CMLKSPKRICPVPPVSTVTGDENISDSEIEQYLRTPEVRDFQRAQAARQAATSVPNPP

>sp|Q8WY22|BRI3B\_HUMAN BRI3-binding protein OS=Homo sapiens GN=BRI3BP PE=1 SV=1

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FGEDNVRAAQKFLARLTERFVLGVDMFVETLWKVWTELLDVLGLDVSNLSQYFSPASVSS  
SPARALLLVGVVLLAYWFLSLTLGFTFSVLHVVFGRFFWIVRVVLFMSVCVYILHKYEGE  
PENAVLPLCFVAVYFMTGPMGFYWRSSPSGSPSNPSNPSVEEKLEHLEKQVRLLNIRLN  
VLESLDRSKDK

>sp|Q8IWQ3|BRSK2\_HUMAN Serine/threonine-protein kinase BRSK2 OS=Homo sapiens GN=BRSK2  
PE=1 SV=3

MTSTGKDGAQAQYVGPYRLEKTLGKGQTGLVKLGVCVTCQKVAIKIVNREKLSVSL  
MKVEREIAILKLEIHPVHLKLDVYENKKYLYLVLEHVSGGELFDYLVKKGRLTPKEARK  
FFRQIIISALDFCHSHSICHRDLKPENLLLDEKNNIRIADFGMASLQVGDSLLETSCGSPH  
YACPEVIRGEKYDGRKADVWSCGVILFALLVGALPFDDDLNRQLLEKVKRGVFHMPHFIP  
PDCQSLLRGMIEVDAARRLTLEHIQKHIWYIGGKNEPEPEQPIPRKVQIRSLPSLEDIDP  
DVLDSMHSLGCFDRNKLQLDLLSEENQEKMIYFLLDRKERYPSQEDEDLPPRNEIDP  
PRKRVDSPLNRHGKRRPERKSMEVLSVTDGGSPVPARRAIEAQAQHGQRSRSISGASSGL  
STSPLSSPRVTPHPSPRGSPLTPKGTVPVHTPKESPAGTPNPTPPSSPSVGGVPWRARLN  
SIKNSFLGSPRFHRRKLQVPTPEEMSNLTPESSPELAKKSWFGNFISLEKEEQIFVVIKD

KPLSSIKADIVHAFLSIPSLSHSVISQTSFRAEYKATGGPAVFQKPKVKFQVDITYTEGGE  
AQKENGIIYSVTFTLLSGPSRRFRKRVVETIQALLSTHDPPAAQHLSDTTNCMEMMTGRLS  
KCGSPLSNFFDVIKQLFSDEKNGQAAQAPSTPAKRSAHGPLGDSAAAGPGPGGDAEYPTG  
KDTAKMGPPPTARREQP

>sp|Q6RI45|BRWD3\_HUMAN Bromodomain and WD repeat-containing protein 3 OS=Homo sapiens  
GN=BRWD3 PE=1 SV=2

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VAANAHIIPPDYLLKICERIGPLLDKEIPQSVPGVQTLLGVGRQSLLRDAKDCKSTLWNGS  
AFAALHRGRPELVPVNYVKPPNVVNITSARQLTGCSRFGHIFPSSAYQHIKMHKRILGHL  
SSVYCVAFDRSGRRIFTGSDCLVKIATDDGRLLATLRGHSAEISDMAVNYENTLIAAG  
SCDKVVRVWCLRTCAPVAVLQGHASITSIQFCPSTKGTNRYLTSTGADGTICFWQWHVK  
TMKFRDRPVKFTERSRPGVQISCSFSGGMFITGSTDHVIIRIYYLGSEVPEKIAELES  
HTDKVVAVQFCNNGDSLRFVSGSRDGTARIWQYQQQEWKSIVLDMATKMTGNNLPSGEDK  
ITKLKVTMVAWDRTTIVITAVNNFLKVNNSITGQLLHTLSGHDDDEVFVLEAHPFDQRI  
ILSAGHDGNIFIWDLDRGKIRNYFNMIEGQGHGAVFDCKFSPDGNHFACTDSHGHLFFF  
GFGCSKYYEKIPDQMFHTDYRPLIRDANNYVLDEQTQQAPHLMPPPFLVDVDGNPHPTK  
FQRLVPGRECKDEQLIPQLGYVANGDGEVVEQVIGQQTNDQDESILDGIIRELQREQDL  
RLINEGDVPHLPVNRAYSVNGALRSPNMDISSPNIRLRHSSQIEGVRQMHNAPRSQM  
ATERDLMASRRVVNELNNGVSRVQEECRTAKGDIEISLYTVEKKKKPSYTTQRNDYEP  
SCGRSLRRTQRKRQHTYQTRSNIHNSQASCQNSGVQEDSDSSSEEDETVGTSDASVEDP  
VVEWQSESSSSDSSEYSDWTADAGINLQPPKRQTRQTTRKICSSSDEENLKSLEERQKK  
PKQTRKKKGGLVSIAGEPNEEFAPQWILDTIPRRSPFVPQMGDELIYFRQGHEAYVRAV  
RKSKIYSVNLQKQPNKMDLREQEFVKIVGIKYEVGPPTLCLKLAFLDPISGKMTGESF  
SIKYHDMPDVIDFLVLHQFYNEAKERNWQIGDRFRSIIIDAWWFGTVESQQPFQPEYPDS  
SFQCYSVHWDNNEKMSPWDMEPIPEGTAFPDEVGAGVPVSQEELTALLYKPQEGEWGA  
HSRDEECERVIQGINHLLSLDFASPFAPVDLSAYPLYCTVVAYPTDLNTIRRRLENRFY  
RRISALMWEVRYIEHNARTFNEPDSPIVKAAKIVTDVLLRFIGDQSTDILTINKIKAE  
ERNSTDAEEDTEIVDLSDSGPGTSSGRKVKCRGRRQSLKCNPDWKKQCKELLSLIYERE  
DSEFPRQPADLLSYPGHQEQEGESSESVVPERQQDSSLSYQDVIDTPVDFSTVKETLE  
AGNYGSPLEFYKDVRQIFNNSKAYTSNKKSRISMMMLRLSALFESHKNIISEYKSAIQS  
QKRRRPRYRKRLRSSSSSLSSGAPSPKGKQKQMKLQPKNDQNTSVSHARTSSPFSSPVS  
DAAEGLSLYLLDDEPDGPFSSSGGYSRSGNSHDPGAKSFRNRVLPVKQDHSLDGPLT  
NGDGREPRTGIKRKLLSASEEDENMGGEDKEKKETKEKSHLSTSESGELGSSLSSESTCG  
SDSDSESTSRTDQDYVDGDHDSYKFIQTRPKRKLKQHGNGKRNWKTRGTGGRGRWGRWG  
RWSRGGRGGRGRGRSRGGGGTRGRGRGRGGRGASRGATRAKRARIADDEFDTMFSGR  
FSRLPRIKTRNQGRRTVLYNDDSDNDFVSTEDPLNLGTSRSGRVRKMTEKARVSHLMGW  
NY

>sp|Q9BX70|BTBD2\_HUMAN BTB/POZ domain-containing protein 2 OS=Homo sapiens GN=BTBD2 PE=1  
SV=1

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APPGPGTDAQAGAERAEEAAGPGAAALQREAAYNWQASKPTVQERFAFLFNNEVLCDVH  
FLVGKGLSSQRIPAHRFVLAVGSAVFDAMFNGGMATTSTIELPDVEPAAFLALLKFLYS  
DEVQIGPETVMTTLTYAKKYAVPALEAHCVEFLKKNLRADNAFMLLTQARLFDEPQLASL  
CLENIDKNTADAITAEGFTDIDLDTLVAVLERDTLGIREVRLFNAVVRWSEACRQQLQ



VTPENRRKVLGKALGLIRFPLMTIEEFAAGPAQSGILVDREVVSLFLHFTVNPKEPRVEFI  
DRPRCCLRGKECSINRFQQVESRWGYSGTSDRIRFSVNKRIFVVGFLYGSIHGPTDYQV  
NIQIIHTDSNTVLGQNDTGFSDCGSASTFRVMFKEPVEVLPNVNYTACATLKGPDSHYGT  
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>sp|Q9BSF8|BTBD10\_HUMAN BTB/POZ domain-containing protein 10 OS=Homo sapiens GN=BTBD10  
PE=1 SV=2

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SRDRRRSSDRSRDSSHERTESQLTPCIRNVTSPTRQHHVEREKDHSSSRPSSPRPQKASP  
NGSISSAGNSSRNSSQSSSDGCKTAGEMVFFYENAKEGARNIRTSEVTILVDNTRFVV  
DPSIFTAQPNTMLGRMFGSGREHNFRPNEKGEYEVAEGIGSTVFRAILDYYKTGIIRCP  
DGIPIELREACDYLCISFEYSTIKCRDLSALMHELSNDGARRQFEFYLEEMILPLMAS  
AQSGERECHIVVLTDVVVDWDEEYPPQMGEYSQIIYSTKLYRFFKYIENRDVAKSVLK  
ERGLKKIRLGIEGYPTYKEKVKKRPGRPEVIYNYVQRPFIRMSWEKEEGKSRHVDQFCV  
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>sp|Q9BRD0|BUD13\_HUMAN BUD13 homolog OS=Homo sapiens GN=BUD13 PE=1 SV=1

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ISTTKLEKEEEEDDGLPVVAEFVDERPEEVKQMEAFRSSAKWKLGGHNEDLPSNRHFR  
HDTDPDSSPRRVRHGTPDPSPRKDRHDTDPDSPRRARHDTDPDPLRGARHSDTSPPRRI  
RHDSSDTSPRRRARHSDPDSPPRRPQHNSGASPRRVRHSDPDSPRRRARHGSSDISS  
PRRVHNSPDTSRRTLGSSTQQLRRARHSDPDLPNVTYSLPRTKSGKAPERASSKTSP  
HWKESGASHLSFPKNSKYEYDPDISPPRKKQAKSHFGDKKQLDSKGCQKATDSDLSSPR  
HKQSPGHQSDSDLSPPRNRPRHRSSDSDLSPPRRRQRTKSSDSDLSPPRRSQPPGKAA  
HMYSGAKTGLVLTDIQRREQELKEQDQETMAFEAEFYAETVFRDKSGRKRNLKLERLEQ  
RRKAEKDSERDELYAQWGKLAQSRQQQNVEDAMKEMQKPLARYIDDEDLDRMLREQER  
EGDPMANFIKKNKAKENKNKKVRPRYSGPAPPPNRFNIWPGYRWDGVDRSNGFEQKRFAR  
LASKKAVEELAYKWSVEDM

>sp|Q68D86|C102B\_HUMAN Coiled-coil domain-containing protein 102B OS=Homo sapiens  
GN=CCDC102B PE=1 SV=4

MNLDSIHRLEETQIFQMQQSSIKSRGDMVAPASPPRDTCTCFPLHGLQSHAAHNFCAH  
SYNTNKWDICEELRLRELEEVKARAAQMEKTMRWSDCTANWREKWSKVRAERNSAREEG  
RQLRIKLEMAMKELSTLKKKQLPPQKEALEAKVTQDLKLPGFVEESCEHTDQFQLSSQM  
HESIERYLVKRQFSTKEDTNNKEQGVVIDSLKLSEEMKPNLDGVDLFNNGSGNGETKTG  
LRLKAINLPLENEVTEISALQVHLDEFQKILWKEREMRTALEKEIERLESALSLWKWYE  
ELKESKPKNVKEFDILLGQHNDQMELSGNIKEESKSNKSDRVICELRAELERLQAENT  
SEWDKREILEREKQGLERENRRLKIQVKEMEELLDKKNRLSANSQSPDFKMSQIDLQEK  
QELLNLQHAYYKLNRYQANIAELTHANNRVDQNEAEVKKLRLRVEELKQGLNQKEDEL  
DSLNLQIRKLQRSLDEEKERNENLETELRLHQLNW

>sp|Q5VWW1|C1QL3\_HUMAN Complement C1q-like protein 3 OS=Homo sapiens GN=C1QL3 PE=2 SV=1

MVLLLILIPVLSSAGTSAHYEMLGTCRMVCDPYGGTKAPSTAATPDRGLMQSLPTFIQ  
GPKGEAGRPGKAGPRGPPGEPGPPGPMGPPGEGKEGEPGRQGLPGPPGAPGLNAAGISAAT  
YSTVPKIAFYAGLKRQHEGYEVLKFDVVNTLGNHYDPTTGKFTCSIPGIYFFTYHVMR  
GGDGTSMWADLCKNNQVRASAIQAQDADQNYDYASNSVVLHLEPGDEVYIKLDGGKAHGGN  
NNKYSTFSGFIIYAD

>sp|Q9BXJ2|C1QT7\_HUMAN Complement C1q tumor necrosis factor-related protein 7 OS=Homo sapiens GN=C1QTNF7 PE=2 SV=1

MFVLLYVTSFAICASGQPRGNQLKGENYSPRYICSIPGLPGPPPGANGSPGPHGRIGL  
PGRDGRDGRKGEKGEKGTAGLRGKTGPLGLAGEKGDQGETGKKGPIGPEGEKGEVGPPIGP  
PGPKGDRGEQGDPLPGVCRCGSIVLKSAFSVGITTSYPEERLPIIFNKVLFNEGEHYNP  
ATGKFICAFPGIYYFSYDITLANKHLAIGLVHNGQYRIKTFDANTGNHDTVASGSTVIYLQ  
PEDEVWLEIFFTDQNGLFSDPGWADSLFSGFLLYVDTDYLDSEDEL

>sp|Q9NZP8|C1RL\_HUMAN Complement C1r subcomponent-like protein OS=Homo sapiens GN=C1RL PE=1 SV=2

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RPPGQREFVSSGRSLRLTFRTQPSSSENKTAHLHKGFLALYQTVAVNYSQPISEASRGSEA  
INAPGDNPAKVQNHQCEPYYQAAAAGALTCATPGTWKDRQDGEEVLQCMFVCGRPVTPIA  
QNQTTLGSSRAKLGFPWQAFTSIHGRGGGALLGDRWILTAAHTIYPKDSVSLRKNQSVN  
VFLGHTAIDEMCLKGNHPVHRVVHPDYRQNEHNFSGDIALLELQHSIPLGPNVLPVCL  
PDNETLYRSGLLGYVSGFGMEMGWLTTTELKYSRLPVAPREACNAWLQKRQRPEVFSNMF  
CVGDETRHQSVCQDSDGSVYVVDNHAHHWVATGIVSWGIGCGEGYDFYTKVLSYVDWIK  
GVMNGKN

>sp|O14523|C2C2L\_HUMAN C2 domain-containing protein 2-like OS=Homo sapiens GN=C2CD2L PE=1 SV=3

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RELGVWRSLRLRATRAGAAEPPGVRGLLASLFAFKSFRENWQRAWVRALNEQACRNGSS  
IQIAFEEVPQLPPRASISHVTCVDQSEHTMVLRCQLSAEEVRFVSVTQQSPAASMETY  
HVTLTLPPTQLEVNLEEIPGEGLLISWAFTDRPDLSLTVLPKLQAREREGEEQVELSTIEE  
LIKDAIVSTQPAMMVNLACAPGGLVPSEKPPMPQAQPAIPRNRLFLRQLRASHLGN  
ELEGTEELCCVAELDNPMQKWKTPARAGSEVEWTEDLALDLGPQSRELTLKVLRSSCG  
DTELLGQATLPVGSRSRPLSRRQLCPLTPGPGKALGPAATMAVELHYEEGSPRNLGTPTS  
STPRPSITPTKKIELDRTIMPDTIVTTVTTVQSRPRIDGKLDSPSRSPSKVEVTEKTTT  
VLSESSGPSNTSHSSSRDHLNGLDPVAETAIRQLTEPSGRVAKKTPTKRSTLIISGVS  
KVPIAQDELALSLGYAASLEASVQDDAGTSGGPSSPPSDPPAMSPGPLDALSSPTSVQEA  
DETTRSDISERPSVDDIESETGSTGALETRSLKDHKVSFLRSGTKLIFRRRPRQKEAGLS  
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>sp|Q8NCU7|C2C4A\_HUMAN C2 calcium-dependent domain-containing protein 4A OS=Homo sapiens GN=C2CD4A PE=2 SV=2

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LLGGPPAPRPRAHTYGGGGPDALLGTLRVPRAPGPATPAAPGCPRPQDALARRPRGCR  
LLRVPDGLLSRALRAGRSRRLTRVRSVSSGNEKERRAGSQSPARAPSTSPSSRVPFPE  
RLEAEGTVALGRAGDALRLAAEYCPGTGRLRLRLRAESPAGGAPGPAVSCRLSLVLRP  
PGTALRQCSTVVGRSRKASFDQDFCFDGLSEDEVRRLLAVRVKARDEGRGRERGRLLGQGE  
LSLGALLLL

>sp|Q9NRR3|C42S2\_HUMAN CDC42 small effector protein 2 OS=Homo sapiens GN=CDC42SE2 PE=1 SV=1

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QSKGGYGGGMPANVQMLVDTKAG

>sp|Q9Y5P4|C43BP\_HUMAN Collagen type IV alpha-3-binding protein OS=Homo sapiens  
GN=COL4A3BP PE=1 SV=1

MSDNQSWNSSGSEEDPETESGPPVERCGVLSKWTNYIHGWQDRWVVLKNNALSYYKSEDE  
TEYGCRGSICLSKAVITPHDFDECRFDISVNDVWYLAQDPDHRQQWIDAIEQHKTESG  
YGSESSLRRHGSMVSLVSGASGYSATSTSSFKKGHSLREKLAEMETFRDILCRQVDTLQK  
YFDACADAVSKDELQRDKVVEDEDDFPPTTSDGDFLHSTNGNKEKLFPHVTPKGINID  
FKGEAITFKATTAGILATLSHCIELMVKREDSWQKRLDKETEKRRTEEAYKNAMTELKK  
KSHFGGPDYEEGPNSLINEEFFDAVEAALDRQDKIEEQSQSEKVRLHWPTSLPSGDAFS  
SVGTHRFBVQKPYSRSSSMSSIDLVSASDDVHRFSSQVEEMVQNHMTYSLQDVGGDANWQL  
VVEEGEMKVYRREVEENGIVLDPLKATHAVKGVGTGHEVCNYFNNVDVRNDWETTIENTH  
VETLADNAIIYQTHKRVWPASQRDVLYLSVIRKIPALTENDPETWIVCNFSVDHDSAPL  
NNRCVRAKINVAMICQTLVSPPEGNQEISRDNILCKITYVANVNPGGWAPASVLRVAKR  
EYPKFLKRFTSYVQEKTAGKPILF

>sp|O14569|C56D2\_HUMAN Cytochrome b561 domain-containing protein 2 OS=Homo sapiens  
GN=CYB561D2 PE=1 SV=1

MALSAETESHIYRALRTASGAAHLVALGFTIFVAVLARPGSSLSWHPVLMSLAFSFLM  
TEALLVFSPESLLHSLSRKGRARCHWVLQLLALLCALLGLVLHKEQLGKAHLVTRH  
GQAGLLAVLWAGLQCSGGVGLLYPKLLPRWPLAKLKYHATSGLVGYLLGSASLLGMCS  
LWFTASVTGAAWYLAVLCPVLTSLVIMNQVSNAIYLRKRIQP

>sp|Q6P1W5|CA094\_HUMAN Uncharacterized protein Clorf94 OS=Homo sapiens GN=Clorf94 PE=1  
SV=2

MRGGGGCVLALGGQRGFQKERRRMASGNLPSSSALVAKGPCALGPFPRYIWIHQDTPQD  
SLDKTCHEIWKRVLGLPEASQPWTSMEQLSVPVVGTLRGNELSFQEEALELSSGKDEISL  
LVEQEFSLSTKEHSILVESSGELEVPGSSPEGTRELAAPLAPLVAGSNERPRASIIIV  
GDKLLKQKVAMPVISSRQDCDSATSTVTDILCAAQVSSKGTEDRGRILGDSNLQVSKLL  
SQFPLKSTETSKVPDNKNVLDKTRVTKDFLQDNLFSGPGPKPTGLSPFLLPPRPPPAR  
PDKLPELPAQKRLPVFAKICSKPKADPAVERHHLMEWSPGTEPKKGQGSFLSQWPQS  
QKDACGEEGCCDAVGASLTLPKKPTCPAEKNLLYEFLGATKNPSGQPRLRNKVEVDGP  
ELKFNAFVTVADKNNPKYTGNVFTPHFPTAMTSATLNQPLWLNLYPPPPVFTNHSTFLQ  
YQGLYPQAARMPYQALHPQLGCYSQQVMPYNPQQMGQQIFRSSYTPLLSYIPFVQPNY  
PYPQRTPPKMSANPRDPPLMAGDGPQYLFPPQGYGFGSTSGGPLMHSPYFSSSGNGINF

>sp|Q9H7X2|CA115\_HUMAN Uncharacterized protein Clorf115 OS=Homo sapiens GN=Clorf115 PE=2  
SV=1

MTVGARLRSKAESSLLRRGPRGRGRTEGDEEAAAILEHLEYADEAEEAAESGTSAADERG  
PGTRGARRVHFALLPERYEPLEEPAPSEQPRKRYRRKLKKYGKNVGKVIKGCYVVIGL  
QGFAAAYSAPFAVATSVVSFVR

>sp|Q9NWV4|CA123\_HUMAN UPF0587 protein Clorf123 OS=Homo sapiens GN=Clorf123 PE=1 SV=1

MGKIALQLKATLENITNLRPVGEDFRWYLMKCGNCGEISDKWQYIRLMDSVALKGGGRGS  
ASMVQKCKLCARENSIEILSSTIKPYNAEDNENFKTIVEFECRGLEPVDFQPQAGFAAEG  
VESGTAFSIDINLQEKDWDYDEKAQESVGIYEVTHQFVKC

>sp|Q8NDD1|CA131\_HUMAN Uncharacterized protein Clorf131 OS=Homo sapiens GN=Clorf131 PE=1  
SV=3

MRVDSSADPTMSQEQPGSSTPPSSPTLLDALLQNLQYDFGGTEGETEQKKIIKKRENKKR

DVMASAAALAAEPSPLPGSLIRGQRKSASSFFKELREERHCAPSGTPTGPEILAAVPPSS  
LKNNREQVEVVEFHSNKKRKLTPDHNKNTKQANPSVLERDVDQTQEFNLEKARLEVHRFGI  
TGYGKGKERILEQERAIMLGAKPPKKSIVNYKVLQEQIKEKKAKEEEKRLAQETDIFKK  
KKRKGQEDRRKSKKKSAPSILSNGRIGQVGKFKNGTLILSPVDIKKINSSRVAK

>sp|Q5T7R7|CA185\_HUMAN Uncharacterized protein Clorf185 OS=Homo sapiens GN=Clorf185 PE=2  
SV=1

MASPKGFFNYLTYFLAAGAVTLGIGFFALASALWFLICKRREIFQNSKFKAIDERCQRQP  
SMAIKSHSQCVFISRNFHTGRFQLQEEQRKKEAAHIKAIKDHSKDEPQLATKNIICDPS  
ETSSTNRRSSVTLSLSTLPDSYSQSIEAADDFWSDSLVKRNSPMPSLGEPLMEKVFS  
YLSTISLEEGTESVLNDTL

>sp|Q9H425|CA198\_HUMAN Uncharacterized protein Clorf198 OS=Homo sapiens GN=Clorf198 PE=1  
SV=1

MASMAAAIAASRSVMSGNRPLDDRERKRFTYFSSLSPMARKIMQDKEKIREKYGPEWAR  
LPPAQQDEIIDRCLVGPAPAPRDPGDSEELTRFPGLRGPTGQKVVRFGDEDLTWQDEHS  
APFSWETKSQMEFSISALSIQEPSNGTAASEPRPLSKASQGSQALKSSQGSRSSSLDALG  
PTRKEEEASFWKINAERSRGEGPEAEFQSLTPSQIKSMEKGEKVLPPCYRQEPAPKDREA  
KVERPSTLRQEQRPLPNVSTERERPQPVQAFSSALHEAAPSQLEGKLPSPDVRQDDGEDT  
LFSEPKFAQVSSSNVVLKTGFDFLDNW

>sp|Q5SR53|CA200\_HUMAN Putative uncharacterized protein PIK3CD-AS1 OS=Homo sapiens  
GN=PIK3CD-AS1 PE=2 SV=1

MPSQSACPVLSTAPGTPCDLRKHLNMVSEEKRSPQLSAKTWRRGLRLQKRRNALFLPEG  
DICVVGSTSGARALIPETSKLERSGTVIAYCNLELLASSDPPVWASQSTGMTGMSYRSQP  
QLGFKSTPPAHSSVFHHSVKAPKEDQAQEAASRPLTSQDGWNPNIKK

>sp|075309|CAD16\_HUMAN Cadherin-16 OS=Homo sapiens GN=CDH16 PE=2 SV=1

MVPAWLWLLCVSPQALPKAQAELSVEVPENYGGNFPLYLTKLPLPREGAEGQIVLSGD  
SGKATEGPFAMDPDPSGFLLVTRALDREEQAQYQLQVTLEMQDGHVLWGPQPVLVHVKDEN  
DQVPHFSQAIYRRLSRGTRPGIPFLFLEASDRDEPGTANSDLRFHILSQAPAPSPDMF  
QLEPRLGALALSPKGSTSLDHALERTYQLLVQVKMDGDQASGHQATATVEVSIESTWVS  
LEPIHLAENLKVLYPHHMAQVHWSGGDVHYHLESHPPGPFVNAEGNLYVTRELDREAQA  
EYLLQVRAQNSHGEDIAAPLELHVLVMDENDNPICPPRDPTVSIPELSPPGTEVTRLSA  
EDADAPGSPNSHVYQLLSPEPEDGVEGRAFQVDPTSGSVTLGVLPLRAGQNILLVLAM  
DLAEGGFSSTCEVEVAVTDINDHAPEFITSQIGPISLPEDVEPGTLVAMLTADADLE  
PAFRLMDFAIERGDTEGTFGLDWEPSGHVRLRLCKNLSYEAAPSHEVVVVVQSVAKLVG  
PGPGGATATVTVLVERVMPKKLDQESYEASVPISAPAGSFLTLIQPSDPISTRLRFSL  
VNDSEGWLCIEKFSGEVHTAQSLQGAQPGDTYTVLVEAQDTDEPRLSASAPLVIHFLKAP  
PAPALTLAPVPSQYLCTPRQDHGLIVSGPSKDPDLASGHGPYSFTLGNPTVQRDWRLQT  
LNGSHAYLTLALHWVEPREHIIPVVVSHNAQMWQLLRVIVCRCNVEGQCMRKVGRMKGM  
PTKLSAVGILVGTIVAIGIFLILIFTHWTMSRKKDPDQPADSVPLKATV

>sp|Q9H159|CAD19\_HUMAN Cadherin-19 OS=Homo sapiens GN=CDH19 PE=2 SV=1

MNCYLLLRFMLGIPLWPCLGATENSQTKVKQPVRSHLRVKRGVWNQFFVPEEMNTTS  
HHIGQLRSDLDNGNSFQYKLLGAGAGSTFIIDERTGDIYAIQKLDREERSLYILRAQVI  
DIATGRAVEPESEFVIKVSINDNEPKFLDEPYEAIPEMSPEGTLVIQVTASDADDPSS  
GNNARLLYSLLQGQPYFSVEPTTGVIIRISSKMDRELQDEYVWIIQAKDMIGQPALSGTT  
SVLIKLSVDVNDNKPIFKESLYRLTVSESAPTGTSGITIMAYDNDIGENAEMDYSIEEDDS

QTFDIITNHETQEGIVILKKKVDFEHQNHYGIRAKVKNHHVPEQLMKYHTEASTTFIKIQ  
VEDVDEPPLFLLPYYVFEVFEETPQGSFVGVSATDPDNRKSPIRYSITRSKVFNINDNG  
TITTSNSLDREISAWYNLSITATEKYNIEQISSIPLYVQVLNINDHAPEFSQYYETYVCE  
NAGSGQVIQTISAVDRDESIEEHFYFNLSVEDTNSSFTIIDNQDNTAVILTNRTGFNL  
QEEPVFYISILIADNGIPSLTSTNTLTIHVCDGDSGSTQTCQYQELVLSMGFKTEVIA  
ILICIMIIFGFIFLTLGLKQRRKQILFPEKSEDFRENIFQYDDEGGGEEDTEAFDIAELR  
SSTIMRERKTRKTTSAEIRSLYRQSLQVGPDSAIFRKFILEKLEEANTDPCAPPFDSLQT  
YAFEGTGLAGSLSSLESASVSDQDESVDYLNELGPRFKRLACMFGSAVQSNN

>sp|Q9HBT6|CAD20\_HUMAN Cadherin-20 OS=Homo sapiens GN=CDH20 PE=2 SV=2

MWTSGRMSNAKNWLGLGMSLYFWGLMDLTTTVLSDTPTPQGELEALLSDKPQSHQRTKRS  
WVWNQFFVLEEYTGTDPLYVGKLHSDMDRGDSIKYILSGEGAGIVFTIDDTTGDIIHAIQ  
RLDREERAQYTLRAQALDRRTGRPEPESEFIKIQDINDNEPKFLDGPYVATVPEMSPV  
GTSVIQVTATDADDPTYGNSARVVYSILQGQPYFSVDSKTGVIRTALNMNDREAKEYEYEV  
IIQAKDMGGQLGGLAGTTTNNITLSDVNDNPPRFPQKHYQMSVLESAPISSTVGRVFAKD  
LDEGINAEMKYTIVDGDGADAFDISTDPNFQVGIIITVKKPLSFESKKS YTLKVEGANPHL  
EMRFLNLGPFQDTTTHISVEDVDEPPVFEPGFYFVEVPEDVAIGTTIQIISAKDPDVTN  
NSIRYSIDRSSDPGRFFYVDITTGALMTARPLDREEF SWHNITVLAMEMNPSQVGSVPV  
TIKVLVDVNDNAPEFRFYEAFCENAKAGQLIQTVSAVDQDDPRNGQHFYYS LAPEAANN  
PNFTIRDNDNTARILTRRSGFRQQEQSVFHLPI LIADSGQPVLSSTGTLT IQVCSCDDD  
GHVMSCSPEAYMLPVSLSRGALIAILACIFVLLVLVLLILSMRRHRKQPYIIDDEENIHE  
NIVRYDDEGGGEEDTEAFDIAAMWNPREAQAGAAPKTRQDMLPEIESLSRYVPQTCAVNS  
TVHSYVLAKLYEADM DLWAPPFDSLQTYMFEGDGSVAGSLSSLQSATSDSEQSFDFLTDW  
GPRFRKLAELYGASEGPAPLW

>sp|Q9UJ99|CAD22\_HUMAN Cadherin-22 OS=Homo sapiens GN=CDH22 PE=2 SV=2

MRPRPEGRGLRAGVALSPALLLLLLPPPTLLGRLWAAGTPSPSAPGARQD GALGAGRV  
KRGVWNQFFVVEEYTGTEPLYVGKIHSDSDEGDGAIKYTISGEGAGTIFLIDELTGDIIH  
AMERLDREKQTFYTLRAQARDRATNRLLEPESEFI IKVQDINDSEPRFLHGPYIGSVAEL  
SPTGTSVMQVMASDADDPTYGSSARLVYSVL DGEHHFTVDPKTGVIRTAVPDL DRESQER  
YEVVIQATDMAGQLGGLSGSTTVTIVVTDVNDNPPRFPQKMYQFSIQESAPIGTAVGRVK  
AEDSDVGENTDMTYHLKDESSSGDVFKVTTSDTQEAIIVVQKRLDFESQPVHTVILEA  
LNKFVDPRFADLGTFRDQAIVRVAVTDVDEPPEFRPPSGLLEVQEDAQVGS LVGVVTARD  
PDAANRPVRYAIDRESLDLQIFDIDADTGAIVTGKGLDRETAGWHNITVLAMEADNHAQL  
SRASLRIRILDVNDNPPELATPYEAAVCEDAKPGQLIQTISVVDREDPQGGHRFYFRLVP  
EAPSNPHFSLLDIQDNTAAVHTQHVGFNREQDVFFLPILVVDSGPPTLSSTGTLTIRIC  
GCDSSGTIQSCNTTAFVMAASLSPGALIALLVCVLILVVLVLLILTLRRHHKSHLSSDED  
EDMRDNVIKYNDEGGGEQDTEAYDMSALRSLYDFGELKGGDGGGSAGGAGGGSGGGAGS  
PPQAHLPSERHSLPQGPPSPEPDFSVFRDFISRKVALADGDLVPPPYDAFQTYAFEGADS  
PAASLSSLHSGSSGSEQDFAYLSSWGPRFRPLAALYAGHRGDDEA QAS

>sp|P19022|CADH2\_HUMAN Cadherin-2 OS=Homo sapiens GN=CDH2 PE=1 SV=4

MCRIAGALRTLPLLAALLQASVEASGEIALCKTGFPEDVYSAVLSKDVHEGQPLLNVKF  
SNCNGKRKVQYESSEPADFKVDEDDGMVYAVRSFPLSSEHAKFLIYAQDKETQEKWQVAVK  
LSLKPTLTEESVKESAEEVEIIVFPRQFSKHSGLQRQKRDWVIPPINLPENS RGPFPQEL  
VRIRSDRDKNLSLRYSVTGPQADQPPTGIFIIINPISGQLSVTKPLDREQIARFHLRAHAV  
DINGNQVENPIDIVINVIDMNDNRPEFLHQVWNGTVPEGSKPGTYVMTVTAIDADDPNAL

NGMLRYRIVSQAPSTPSNMFTINNETGDIITVAAGLDREKVQQYTLIIQATDMEGNPTY  
GLSNTATAVITVTDVNDNPPEFTAMTFYGEVPENRVDIIIVANLTVTDKQPHTPAWNNAVY  
RISGGDPTGRFAIQTDPNSENDGLVTVVKPIDFETNRMFVLTVAAENQVPLAKGIQHPPQS  
TATVSVTVIDVNNENPYFAPNPKIIRQEEGLHAGTMLTTFTAQDPDRYMQNIRYTKLSDP  
ANWLKIDPVNGQITTIIVLDRESPNVKNNIYNATFLASDNGIPPMSGTGTLQIYLLDIND  
NAPQVLPQEAETCETPDPNSSINITALDYDIDPNAGPFAFDLPLSPVTIKRNWTITRLNGD  
FAQNLKIKFLEAGIYEVPIIITDSGNPPKSNISILRVKVCQCSNGDCTDVDRIVGAGL  
GTGAIITAILLCIIILLILVLMFVVMKRRDKERQAKQLLIDPEDDVDRDNILKYDEEGGGE  
EDQDYDLSQLQPPDTPVEDAIKPVGIRRMDERPIHAEPQYPVRSAAHPHGDIGDFINEGL  
KAADNDPTAPPYDSSLVFDYEGSGSTAGSLSSLNSSSSGGEQDYDYLNDWGPRFKKLADM  
YGGGDD

>sp|Q8NFZ8|CADM4\_HUMAN Cell adhesion molecule 4 OS=Homo sapiens GN=CADM4 PE=1 SV=1

MGRARRFQWPLLLLWAAAAGPGAGQEVQTENVTVAEAGGVAEITCRLHQYDGSIVVIQNPA  
RQTLFFNGTRALKDERFQLEEFSPRRVRIRLSARLEDEGGYFCQLYTETHHQAITLTV  
LVAPENPVVEVREQAVEGGEVELSCLVPRSRPAATLRWYDRKELKGVSSSQENGKVSWSV  
ASTVRFRVDRKDDGGIIICEAQNALPSGHSKQTQYVLVQYSPTARIHASQAVVREGDT  
LVLTCAVTGNPRPNQIRWNRGNESLPERAEAVGETLTLPGLVSADNGTYTCEASNKHGHA  
RALYVLVVDYDPAVVEAQTSPYAIVGGILALLVFLIICVLVGMVWCSVRQKGSYLTHEA  
SGLDEQGEAREAFNGSDGHRKKEEFFI

>sp|Q13111|CAF1A\_HUMAN Chromatin assembly factor 1 subunit A OS=Homo sapiens GN=CHAF1A  
PE=1 SV=2

MLEEECGAPGARGAATAMDCKDRPAFPVKKLIQARLPFKRLNLVPKGKADDMSSDDQGTS  
VQSKSPDLEASDLTLENNCHVGSIDFRPKLVNGKGPLDNFLRNRIETSIGQSTVIDLT  
EDSNEQPDSDLVDHKNLSEASPSREAINGQREDTGDQQGLLKAIQNDKLAFPGETLSDIP  
CKTEEEGVGCGGAGRRGDSQECSRSCPELTSGPRMCPRKEQDSWSEAGGILFKGKVPV  
VLQDILAVRPPQIKSLPATPQGNMTPSEVLESFPEEDSVLSHSSLSPSSSTSSPEGPP  
APPKQHSSTSPFPTSTPLRRITTKFVKGSTKKNLRLQRDQERLGKQLKLAEREEKEKL  
KEEAKRAKEEAKKKKEEKELKEKERREKREKDEKEKAQQLKEERRKERQEALEAKLE  
EKRRKEEEKRLREEEKRIKAEAEITRFFQKPKTPQAPKTLAGSCGKFAPFEIKEHMLA  
PRRRTAFHPDLCSQLDQLLQQSGEFSFLKDLKGRQPLRSGPTHVSTRNADIFNSDVVIV  
ERKGKDGVPERRKFRMKLLQFCENHRPAYWGTWNKKTALIRARDPWAQDTKLDDYEVD  
DEEWEEEPGESLSHSEGGDDDDMGDEDEDDGFFVPHGYLSEDEGVTEECADPENHKVR  
QKLKAKEWDEFLAKGRFRVLQPVKIGCVWAADRDCAGDDLKVLQQFAACFLETLPQEE  
QTPKASKRERRDEQILAQLLPLLHGNVNGSKVIREFQEHCRRLSNHTGSPRSPSTTY  
LHTPTPSEDAAIPSKSRLKRLISENSVYEKRPDFRMCWYVHPQVLQSFQQEHLVPVCQWS  
YVTSVPSAPKEDSGSVPSTGPSQGTPISLKRKSAGSMCITQFMKKRRHDGQIGAEDMDGF  
QADTEEEEEEEGDCMIVDVPDAAEVQAPCGAASGAGGGVGVDTGKATLTSSPLGAS

>sp|Q13112|CAF1B\_HUMAN Chromatin assembly factor 1 subunit B OS=Homo sapiens GN=CHAF1B  
PE=1 SV=1

MKVITCEIAWHNKEPVYSLDFQHGTAGRIHRLASAGVDTNVRIWKVEKGPDKAIVEFLS  
NLARHTKAVNVVRFSPTEILASGGDDAVILLWKVNDNKEPEQIAFQDEDEAQLNKENWT  
VVKTLRGHLEDVYDICWATDGNLMASASVDNTAIWDVSKGQKISIFNEHKSIVVQGVTD  
PLGQYVATLSCDRLRVYSIQKKRVAFNVSKMLSGIGAEGEARSYRMFHDDSMKSFFRRL  
SFTPDGSLLLTPAGCVESGENVMNTTYVFSRKNLKRPIAHLPCPGKATLAVRCCPVYFEL

RPVETGVELMSLPYRLVFAVASEDSVLLYDTQQSFPGYVSNHYHTLSDISWSSDGAF  
LAISSTDGYCSFVTFEKDELGIPLKEKPVLMRTPDTAKKTKSQTHRGSSPGPRPVEGTP  
ASRTQDPSSPGTTPPQARQAPAPTVIDPPSITPAVKSPLPGPSEEKTLQPSSQNTKAHP  
SRRVTLNLTQAWSKTTPRRINTPLKTDTPSSVPTSIVISTPSTEEIQSETPGDAQGSPP  
ELKRPRLDENKGGTESLDP

>sp|Q5VU97|CAHD1\_HUMAN VVFA and cache domain-containing protein 1 OS=Homo sapiens  
GN=CACHD1 PE=2 SV=2

MARQPEEEETAVARRRPLWLLCLVACWLLGAGAEADFSILDEAQLASQMRRLAAEEL  
GVVTMQRIFNSFVYTEKISNGESEVQQLAKKIREKFNRYL DVVNRNKQVVEASYTAHLTS  
PLTAIQDCCTIPSPMMEFDGNFNTNVSRTISCDRLSTTVNSRAFNPGRDLNSVLADNLKS  
NPGIKWQYFSSEEGIFTVFPAAHKFRCKGSYEHRSRPIYVSTVRPQSKHIVVILDHGASVT  
DTQLQIAKDAAQVILSAIDEHDKISVLTVADTVRTCSDQCCKYKTFLSPATSETKRKMSTF  
VSSVKSSDSPTQHAVGFQKAFQLIRSTNNNTKFQANTDMV I IYLSAGITSKDSSEEDKKA  
TLQVINEENSFLNNSVMILTYALMNDGVTGLKELAFRLDLAEQNSGKYGVPDRMALPVIK  
GSMMVLNQLSNLETTVGRFYTNLPNRMIDEAVFSLPFSDEMGDGLIMTVSKPCYFGNLLL  
GIVGVDVNLAYILEDVITYYQDSLASYTFLIDDKGYTLMHPSLTRPYLLSEPPLHTDI IHY  
ENIPKFELVRQNILSLPLGSQIIAVPVNSSLSWHINKLRETGKEAYNVSYAWKMVQDTSF  
ILCIVVIQPEIPVKQLKNLNTVPSSKLLYHRLDLLGQPSACLHFKQLATLESPTIMLSAG  
SFSSPYEHLSPETKRMVEHYTAYLSDNTRLIANPGLKFSVRNEVMATSHVTDEWMTQME  
MSSLNTYIVRRYIATPNGVLRIYPGSLMDKAFDPTRRQWYLHAVANPGLISLTGPYLDVG  
GAGYVVTISHTIHSSSTQLSSGHTVAVMGIDFTLRYFYKVLMDLLPVCNQDGGNKIRCFI  
MEDRGYLVAHPTLIDPKGHAPVEQQHITHKEPLVANDILNHPNFVKKNLCNSFSVRTVQR  
FYKFNTSLAGDLTNLVHGSCHSKYRLARIPGTNAFVGIVNETCDSLAFCACSMVDRLCLN  
CHRMENECECPCECPLEVNECTGNLTNAENRNPSCEVHQEPVITYAIDPGLQDALHQCV  
NSRCSQRLESGDCFGVLDCEWCMVDSGKTHLDKPYCAPQKECFGGIVGAKSPYVDDMGA  
IGDEVITLNMISAPVGPVAGGIMCIVLVLAVYAYRHQIHRRSHQHMSPLAAQEMSVR  
MSNLENDRDERDDDSHEDRGIISNTRFIAAVIERHAHSPERRRRYWGSGTESDHGYSTM  
SPQEDSENPPCNNPLSAGVDVGNHDEDLDDTPPQTAALLSHKFHHYRSHHPTLHHSHH  
LQAAVTVHTVDAEC

>sp|P27482|CALL3\_HUMAN Calmodulin-like protein 3 OS=Homo sapiens GN=CALL3 PE=1 SV=2

MADQLTEEQVTEFKEAFSLFDKDGDCITTRELGTVMRSLGQNPTEAELRDMMSIEDRDG  
NGTVDFPEFLGMMARKMKD TDNEEEIREAFRVFDKDGNGFVSAELRHVMTRLGEKLSDE  
EVDEMIRAADTDGDGQVNYEEFVRVLVSK

>sp|Q9NZT1|CALL5\_HUMAN Calmodulin-like protein 5 OS=Homo sapiens GN=CALL5 PE=1 SV=2

MAGELTPEEEAQYKKAFAVDTDGNGTINAQELGAALKATGKNLSEAQLRKLISEVDS DG  
DGEISFQEFLTAAKKARAGLEDLQVAFRAFDQDGDGHITVDELRRAMAGLGQPLPQEELD  
AMIREADVDDQGRVNYEEFARMLAQE

>sp|P07384|CAN1\_HUMAN Calpain-1 catalytic subunit OS=Homo sapiens GN=CAPN1 PE=1 SV=1

MSEEIITPVYCTGVS AQVQKQ RARELGLGRHENA I KYLGQDYEQLRVRCLQSGTLFRDEA  
FPPVPQSLGYKDLGNSSKTYGIKWKRPTELLSNPQFIVDGATR TDICQGALGDCWLLAA  
IASLTLNDTLLHRVPHGQSFQNGYAGIFHFQLWQFGEWVDVVDDLLPIKDGKLVFVHS  
AEGNEFWSALLEKAYAKVNGSYEALS GGSTSEGFEDFTGGVTEWYELRKAPSDLYQIILK  
ALERGSLLGCSIDISSVLDMEAITFKKLKGHAYSVTGAKQVNYRGQVVSLIRMRNPWGE  
VEWTGAWSDSSEWNNDPYERDQLRVKMEDGEFWMFRDFMREFTRLEICNLTPDALKS

RTIRKWNNTLYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLDETDDPDDYGDRESGCSFV  
LALMQKHRRRERRFRGDMETIGFAVYEVPPPELVGQPAVHLKRDFFLANASRARSEQFINL  
REVSTRFRLPPGEYVVVPSTFEPNKEGDFVLRFFSEKSAGTVELDDQIQANLPDEQVLSE  
EEIDENFKALFRQLAGEDMEISVKELRTILNRIISKHKDLRTKGFSLESCSMVNLMDRD  
GNGKLGVEFNILWNRIRNYLSIFRKFDLDKSGSMSAYEMRMAIESAGFKLNKKLYELII  
TRYSEPDLAVDNFDNFVCCLVRLLETMFRFFKTLDTDLGVTTFDLFKWLQLTMFA

>sp|P20807|CAN3\_HUMAN Calpain-3 OS=Homo sapiens GN=CAPN3 PE=1 SV=2

MPTVISASVAPRTAAEPRSPGPVHPAQSKATEAGGNGPSGIYSAIISRNFPPIIGVKEKT  
FEQLHKKCLEKKVLYVDPEFPDETSLFYSQKFPIQFVWKRPEICENPRFIIDGANRTD  
ICQGELGDCWFLAAIACLTNLQHLLFRVIPHDQSFIENYAGIFHFQFWRYGEWVDVVIDD  
CLPTYNNQLVFTKSNHRNEFWSSALLEKAYAKLHGSYEALKGGNTTEAMEDFTGGVAEFFE  
IRDAPSDMYKIMKKAIERGSLMGCSIDDGTNMTYGTSPSGLNMGELIARMVRNMDNSLLQ  
DSDLDPRGSDERPTRTIIPVQYETRMACGLVRGHAYSVTGLDEVPFKGEKVKLVRLRNPW  
GQVEWNGSWSDRWKDWFSVDKDEKARLQHQTEDGEFWMSYEDFIYHFTKLEICNLTADA  
LQSDKLQTTWTVSVNEGRWVRGCSAGGCRNFPDFTWNPQYRLKLEEDDDPDDSEVICSF  
LVALMQKNRRKDRKLGASLFTIGFAIYEVPKEMHGKQHLQKDFFLYNASKARSKTYINM  
REVSQRFRLLPSEYIVPSTYEPHQEGEFILRVFSEKRNLSEEVENTISVDRPVKKKKTK  
PIIFVSDRANSNKELGVDQEESEEGKGKTSPOKQKQSPQPGSSDQEEQQQFRNIFKQ  
IAGDDMEICADELKKVLNTVVNKHKDLKTHGFTLESCSMIALMDTDGSGKLNQLQEFHHL  
WNKIKAWQKIFKHYDTDQSGTINSYEMRNAVNDAGFHLNNQLYDIITMRYADKHMNIDFD  
SFICCFVRLEGMFRAFHAFDKDGDGIKLNVLQWLQTMFA

>sp|Q96LZ3|CANB2\_HUMAN Calcineurin subunit B type 2 OS=Homo sapiens GN=PPP3R2 PE=1 SV=3

MGNEASYPACMSHFDNDEIKRLGRRFKKLDLDKSGSLSVVEFMSPPELRHNPVRRVID  
VFDTDGDGEVDFKEFILGTSQFSVKGDEEQKLRFASFYDMDKDGYSNGELFQVLKMMV  
GNNLTDWQLQQLVDKTIILDKDGDGKISFEEFSAVVRDLEIHKKLVIV

>sp|O75052|CAPON\_HUMAN Carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase  
protein OS=Homo sapiens GN=NOS1AP PE=1 SV=3

MPSKTKYNLVDDGHDRLRIPLHNEDAFQHGICFEAKYVGSVDVPRPNSRVEIVAAMRRIRY  
EFKAKNIKKKKVSIMVSDGVKVLKKKKKLLLLQKKKEWTWDESKMLVMQDPIYRIFYVS  
HDSQDLKIFSIIARDGASNIFRCNVFKSKKKSQAMRIVRTVGQAFEVCHKLSLQHTQQNA  
DGQEDGESERNSSSGDPGRQLTGAERASTATAEETDIDAVEVPLPGNDVLEFSRGVTDL  
DAVGKEGGSHTGSKVSHPQEPMLTASPRMLLPSSSSKPPGLGTETPLSTHHQMQLLQQLL  
QQQQQQTQVAVAQVHLLKDQLAAEAAARLEAQARVHQLLLQNKDMLQHISLLVKVQVQELE  
LKLSGQGNAMGSQDSLEITFRSGALPVLCDPTTPKPEDLHSPPLGAGLADFAHPAGSPLG  
RRDCLVKLECFRFLPPEDTPPPAQGEALLGGLLEIKFRESGIASEYESNTDESEERDSWS  
QEELPRLLNVLQRQELGDGLDDEIAV

>sp|Q9H246|CA021\_HUMAN Uncharacterized protein Clorf21 OS=Homo sapiens GN=Clorf21 PE=1  
SV=1

MGCASAKHVATVQNEEAQKGNKQNGDVFGEYRIKPVVEVKYMKNGAEQQKIAARNQ  
ENLEKSASSNVRKTNKEVPGLVHQPRANMHISESQEFFFRLDEKIEKGRDYCSEEDI  
T

>sp|Q5VUE5|CA053\_HUMAN Uncharacterized protein Clorf53 OS=Homo sapiens GN=Clorf53 PE=1  
SV=1

MAARQIWARTGAALCRQPSAAPPAPLWVRAGFRQQLSLTLCPANEGNCGGSAPSTPGRP



ERAARPSVSEELTAAERQIAELHAAACAAGQLNYVDPATGYVVLQIAHLQRGECCGSAC  
RHCPYGQVNVKDPSKKKQFNSYFYV

>sp|Q8N0U7|CA087\_HUMAN Uncharacterized protein Clorf87 OS=Homo sapiens GN=Clorf87 PE=2  
SV=1

MSSAWKTPRGSDAMPEIMVKIIGSKHFQYLVEKPKIKENDSLKTETQTMHQKPMTDNARQ  
MSRDTPVPINFTDQQTTDNPDDVKEKKHPENNQKSENNQKLLTGANSSRFLDGNIPSQAN  
VHCSSVPTGDQSLSYVHGIPRRKLRDWSLEQMVRGSSDQPEDIGQSPSGTTNEDAFLLAL  
VRRELKSRPLSSNLEKLQKELKILDPISSGFLLQSQLSRLFLKHEVPLQLPTVKILCQR  
FSKRGSPPEMVNYEKLWFLNSAASDYPQQNKAADLRKTESHGTHSQSTPPQHSSSQPEV  
NRSLEILKMALRTTNGRLNIDNLNLSFRKEDRSFSGCLPLPKVRAICGKHGLYLTLSLL  
ETLLNHQDLGYQNEIKWQNFVEMLTRASSDLLSDLPTGKNEKKAPAPMEPEVPEMSQSK  
TEHMKTPEEELQPESSPAETSACKDPLKPLKIRPVSQPFVNPVAVKNKAEECETWIDRFRK  
LENALYLCDSLNTGVLEKERARRLIHNYNLIYNLSLSPQKIDQALRRFRSGENMLLEPAL  
RYLKEL

>sp|Q96HA4|CA159\_HUMAN Uncharacterized protein Clorf159 OS=Homo sapiens GN=Clorf159 PE=2  
SV=2

MALRHLALLAGLLGVASKSMENVTRNSTAVINTQAEGTSLPPGLSSLPVVREWALHTHT  
AQLPECCVDVVGVNASCPGASLCGPGCYRRWNADGSASCVRGNGTLPAYNGSECRSFAG  
PGAPFPMNRSSGTPGRPHPGAPRVAASLFLGTFFISSGLILSVAGFFYLKRSSKLPRACY  
RRNKAPALQPGAAAAMIPPPQSSGNSSCRIPLWGFPSLGQSQGALWVCPQTGLPGSGSRP  
PLPGSPGDPPTRGQGRIWLVPALDLWSIWPAPPARPLIPVTSMLFPVPETWGLQERR  
THHADRADPQYLLLEVLQHPRTDAAGLRQALLSSHRFSGAGSGGPKSQPVKPRYVRRER  
PLDRATDPAAFPGEARISNV

>sp|Q5VWT5|CA168\_HUMAN Uncharacterized protein Clorf168 OS=Homo sapiens GN=Clorf168 PE=2  
SV=1

MEGEGVRNFKELRAKFQNLDAAPLP GPIKFPAGVSPKGDIGGTQSTQILANGKPLSSNHK  
QRTPYCSSSESQPLQPQKIKLAQKSEIPKCSNSPGPLGKSTVCSATSSQKASLLLEVTQS  
NVEIITKEKVMVANSFRNKLWNWEKVSSQKSEMSSALLANYGSKAIHLEGQKGMGLTPE  
EPRKKLETGAQTLPSQKHVVPKILHNVEDPSFVISQHIRKSWENPPPERSPASSPCQ  
PIYECELASQAPEKQPDVRHHHLPKTKPLPSIDSLGPPPKPSRPPIVNLQAFQRQPAV  
PKTQGEVTVEEGSLSPERLFNAEFEEPHNYEATISYLRHSGNSINLCTAKEIADPTYEVG  
IEELQKPGKNFPYPEPSAKHEDKKMEKQPCELKPKNTEKEPYSNHVFKVDACEGTPEKI  
QMTNVHTGRRNMLAGKQEAMIDI IQTNPCPEGPKLARHSQGHCGHLEVLESTKETPDLGV  
SKTSSISEEIIYDDVEYSRKEVPKLNYSSSLASSEENRELYEDVYKTKNNYPKIDLDGKE  
ALKRLQQFFKKEKDRFKIKKTKSKENLSAFSILLPDLELKSQEVIIYDDVDLSEKESKDE  
DKLKMWKPKFLTPKEKKEKNGAESESFSPRNFFKTKQNLEKNRMKREEKLFRRERFKYD  
KEIIVINTAVACSNSRNGIFDLPISPGEELEV IDTTEQNLVICRNSKGKYGVLIEHLD  
FKHQSWSP

>sp|B1AJZ1|CA196\_HUMAN Putative uncharacterized protein Clorf196 OS=Homo sapiens  
GN=Clorf196 PE=5 SV=2

MTNTKDPKRAMESTLATSNSATGPVTFSHVFGQCQLMQAAVQSLHTLNDQISHFIVTKS  
KALEEDKDPFLPTEKETLKSSMILMRHLLMDAQVQRSIQKFSMEKVESFFLFGISCPKMF  
NYHTY

>sp|Q8NC38|CA213\_HUMAN Putative uncharacterized protein ZNF436-AS1 OS=Homo sapiens  
GN=ZNF436-AS1 PE=2 SV=2

MLAVPVRLKVGSRKPEWGTNRLTSCPAKDPLDRRLQNLDRERVPEPQRSRLRPGVQEDSR  
EHGQVPEVSDPQVDLEFVDLQAKPRYRRLILKTQIPEASDSQAAQKPQAHRQIPETTEAG  
RETTSN

>sp|Q6ZS94|CA229\_HUMAN Putative uncharacterized protein Clorf229 OS=Homo sapiens  
GN=Clorf229 PE=2 SV=1

MGLCTLQPLGPPRKSSSTSCGTWTASGLPSLGHLPRLRLAFDFLEPRARGQRGGSGGCQS  
TRAAERTRPPHPNNAVLLQLPEPSLTWAQGRGCRGHFRSLPAAASRSGSRTLRCASSDRS  
LREQKQRRAGPDPTSPAPPPAGPRSPGSLGPSAPAAPRTARGAYELQGGASQDGPQGQA  
AVGATPTTGPGTGGEGALLGCGSGRTPPTSATWRRRLPAEVPPGAAAAFPERERL

>sp|Q9H8G2|CAAP1\_HUMAN Caspase activity and apoptosis inhibitor 1 OS=Homo sapiens GN=CAAP1  
PE=1 SV=2

MTGKKSSREKRRKRSSQAAAAAALAPDIVPALASGSSGSTSGCGSAGGCGSVSCCGNANF  
SGSVTGGGSGGSCWGGSSVERERRKRRSTDSSSVGSLQQETKYILPTLEKELFLAEHS  
DLEEGGLDLTVSLKPVSFYISDKKEMLQQCFCIIGKKLQKMLPDVLKNCSEIEIKKLCQ  
EQLELLSEKKILKILEGDNMGDSMEEEEADDGSKMGSDLVSQQDIDIDSASSVRENKQPE  
GLELKQKGEDSDVLSINADAYDSIEGPCNEEAAPAPENTVQSEAGQIDDLEKDIEK  
SVNEILGLAESSNPENKAATLAVPPPEDVQPSAQQLELLELEMRARAIKALMKAGDIKKP  
A

>sp|Q9Y376|CAB39\_HUMAN Calcium-binding protein 39 OS=Homo sapiens GN=CAB39 PE=1 SV=1

MPFPFGKSHKSPADIVKNLKESMAVLEKQDISDKKAEKATEEVSKNLVAMKEILYGTNEK  
EPQTEAVAQLAQELYNGLLSTLVADLQLIDFEGKKDVAQIFNNILRRQIGTRPTVEYI  
CTQQNILFMLLKGYESPEIALNCGIMLRECIRHEPLAKIILWSEQFYDFFRYVEMSTFDI  
ASDAFATFKDLLTRHKLLEAEFLEQHYDRFFSEYEKLLHSENYVTKRQSLKLLGELLLDR  
HNFTIMTKYISKPENLKLMMNLLRDKSRNIQFEAFHVFKVFVANPNKTQPILDILLKNQA  
KLIEFLSKFQNDRTEDQFNDEKTYLVKQIRDLKRPAQQEA

>sp|Q9BRK5|CAB45\_HUMAN 45 kDa calcium-binding protein OS=Homo sapiens GN=SDF4 PE=1 SV=1

MVWPWVAMASRWGLIGLAPCCLWLLGAVLLMDASARPANHSSTRERVANRENEILPPD  
HLNGVKLEMDGHLNRGFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISA  
KEMQRWIMEKTAEHFQEAMEESKTHFRAVDPDGDGHVSWDEYKVKFLASKGHSEKEVADA  
IRLNEELKVDEETQEVLENLDRWYQADSPPADLLLTEEEFLSFLHPEHSRGMLRFMVKE  
IVRDLQDGDGKQLSVPEFISLPVGTVENQQGQDIDNWKDRKKEFEELIDSNHDGIVTA  
EELESYMDPMNEYNALNEAKQMIAVADENQNHLEPEEVLKYSEFFTGSKLVDYARSVHE  
EF

>sp|Q8TDN4|CABL1\_HUMAN CDK5 and ABL1 enzyme substrate 1 OS=Homo sapiens GN=CABLES1 PE=1  
SV=2

MAAAAAATTAACSSGSAGTDAAGASGLQQPPPPQPQPAAAAAPQPPPEPPRKPRMDPR  
RRQAALSFLTNISLDGRLPPQDAEWGGGEGGAAPGAGGACGARTRFSLAAAERGGCI  
ALAAPGTAAAGLAGSGPLCPQSSLPPLIPGGHATVSGPGVARGFASPLGAGRASGEQW  
QPPRPAPLAACAQLQLLDGSGAAGQEELEDDAFISVQVPAAFLGSGTPGSGSGSRGRL  
NSFTQGILPIAFSRPTSQNYCSLEQPGQGGSTSAFEQLQRSRRRLISQRSSLETLEDIEE  
NAPLRRCRTLSGSPRPKNFKKIHFIKNMRQHDTNRNRIVLISGRRSFCSIFSVLPYRDST  
QVGDLKLDGGRQSTGAVSLKEIIGLEGVELGADGKTVSYTQFLLPTNAFGARRNTIDSTS

SFSQFRNLSHRSLSIGRASGTQGS�DTGSDLGDFMDYDPNLLDDPQWPCGKHKRVLI FPS  
YMTTVIDYVKPSDLKDMNETFKEKFPHIKLTL SKIRSLKREMRKLAQEDCGLEEPTVAM  
AFVYFEKLALKGKLNKQNRKLCAGACVLLAAKIGSDLKKEVKHLIDKLEEKFRNLRREL  
IAFEFPVLVALEFALHLPEHEVMPHYRRLVQSS

>sp|Q86V35|CABP7\_HUMAN Calcium-binding protein 7 OS=Homo sapiens GN=CABP7 PE=1 SV=1  
MPFHPVTAALMYRGIYTVPNLLSEQRVPDIPEDLEEIREAFKVFD RDGNGFISKQELGT  
AMRSLGYMPNEVELEVIIQRLDMDGQVDFEEFVTLLGPKLSTSGIPEKFHGTD FDTVF  
WKCDMQKLTVDLKRLLYDTFCEHLSMKDIENIIMTEESH LGTAEPCPDVETCSNQQI  
RQTCVRKSLICAFIAFIISVMLIAANQVLRSGMK

>sp|P43155|CACP\_HUMAN Carnitine O-acetyltransferase OS=Homo sapiens GN=CRAT PE=1 SV=5  
MLAFAARTVVKPLGFLKPFSLMKASSRFKAHQDALPRLPVPPLQQSLDHYLKALQPIVSE  
EEWAHTKQLVDEFQASGGVGERLQKGLERRARKTENWLSEWWLKTAYLQYRQPVVIYSSP  
GVMLPKQDFVDLQGQLRFAAKLIEGVLD FKV MIDNETLPVEYLG GKPLCMNQYYQILSSC  
RVPGPKQDTVSNFSKTKKPPHTITVVHNYQFFELDVYHSDGTP LTADQIFVQLEKIWNSS  
LQTNKEPVGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKSIFTVCLDATMPRVSEDVY  
RSHVAGQMLHGGGSRLNSGNRWFDKTLQFIVAEDGSCGLVYEHAAAEGPPIVTL LDYVIE  
YTKKPELVRSPVLPLPMPKKLRFNITPEIKSDIEKAKQNLSIMIQLDITVMVFHHFGKD  
FPKSEKLSPDAFIQMALQLAYYRIYGQACATYESASLRMFHLGR TDTIRSASMDSLTFVK  
AMDDSSVTEHQKVELLRKAVQAHRGYTDRAIRGEAFDRHLLGLKLQAIEDLV SMPDIFMD  
TSYAIAMHFHLSTSQVPAKTDCVMFFGPVVPDGYGVCYNPMEAHINFSLSAYNSCAETNA  
ARLAHYLEKALLDMRALLQSHPRAKL

>sp|Q9Y6N8|CAD10\_HUMAN Cadherin-10 OS=Homo sapiens GN=CDH10 PE=1 SV=2  
MTIHQFLLFLFWVCLPHFCSPEIMFRRTVPVQQRI LSSRVPRSDGKILHRQKRGWMWNQ  
FFLLEEYTGSDYQYVGKLHSDQDKDGSLKYILSGDGAGTLFI IDEKTGDIHATRRIDRE  
EKAFYTLRAQAINRRTL RPVEPESEFVIKIHDINDNEPTFP EEIYTASVP EMSVVGTSVV  
QVTATDADDPSYGN SARVIYSILQGQPYFSVEPETGI IRTALPNMNR ENREYQVVIQAK  
DMGGQMGGLSGTTVNITLTDVNDNPPRFPQNTIHLRVLESSPVGTAIGSVKATDADTGK  
NAEVEYRIDGDGDMFDIVTEKTDQEGIIIVKKPLDYESRRLYTLKVEAENTHVDPRFY  
YLGPFKDTTIVKISIEDVDEPPVFSRSSYLFEVHEDIEVG TIIGTMARDPDSISSPIRF  
SLDRHTDLDRIFNIHSGNSLYTSKPLDRELSQWHNLTVIAAEINNPKETTRVAVFVRIL  
DVNDNAPQFAVFYDTFVCENARPGQLIQTISAVDKDDPLGGQKFFFS LAAVNPNTVQDN  
EDNTARILTRKNGFNRIESTYLLPVVISDNDYPIQSSTGTLTIRVCACDSQGNMQSCSA  
EALLLPAGLSTGALIAILLCIIILLVIVLFAALKRQRKKEPLILSKEDIRDNIVSYNDE  
GGGEEDTQAFDIGTLRNPA AIEEKKLRDIIPETLFI PRRTPTAPDNTDVRDFINERLKE  
HLDPTAPPYDSLATYAYEGNDSIAESLSLES GTTEGDQNYDYLREWGPRFNKLAEMYG  
GGESDKDS

>sp|P12830|CADH1\_HUMAN Cadherin-1 OS=Homo sapiens GN=CDH1 PE=1 SV=3  
MGPWSRSLALLLLQVSSWLCQEPEPCHPGFDAESYTFVPRRHLE RGRVLGRVNFEDC  
TGRQRTAYFSLDTRFKVGT DGVITVKRPLRFHNPQIHFLVYAWDSTYRKFS TKVTLNTVG  
HHHRPPPHQASVSGIQAELLTFPNSSPGLRRQKR DWVIPPISCPENEKGPF PKNLVQIKS  
NKDKEGKVFY SITGQGADTPPVGVFIIERETGWLKVTEPLDRERIATYTLFSHAVSSNGN  
AVEDPMEILITVDQNDNKPEFTQEVFKGSVMEGALPGTSVMEVTATDADDDVNTYNAAI  
AYTILSQDPELPDKNMFTINRNTGVISVVT TGLDRESFPTYTLVVQAADLQGEGLSTTAT  
AVITVTDTDNDNPPIFNPTTYKGQVPENEANVVITTLKVT DADAPNTPAWEAVYTI LNDDG

GQFVVTNPVNNDGILKTAKGLDFEAKQYILHVAVTNVVPFEVSLTTSTATVTVDVLDV  
NEAPIFVPPEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRIWRDTANWLEINPDTG  
AISTRAELDREDFEHVKNSTYTALIIATDNGSPVATGTGTLLILSDVNDNAPIPEPTI  
FFCERNPKPQVINIIDADLPNTSPFTAELTHGASANWTIQYNDPTQESIILKPKMALEV  
GDYKINLKLMDNQNKDQVTTLEVSVCDEGAAGVCRKAQVPEAGLQIPAILGILGGILAL  
LILILLLLFLRRRAVVKEPLPPEDDTRDNVYYYDEEGGGEEDQDFDLSQLHRGLDARP  
EVTRNDVAPTLMSPRYLPRANPDEIGNFIDENLKAADTDPTAPPYDSSLVFDYEGSGS  
EAASLSSLNSESDDQDYDYLNEWGNRFKKLADMYGGGEDD

>sp|P33151|CADH5\_HUMAN Cadherin-5 OS=Homo sapiens GN=CDH5 PE=1 SV=5

MQRLMMLLATSGACLGLLAVAATAAGANPAQRDTHSLPHTHRRQKRDWIWNQMHIDEK  
NTSLPHHVGVKIKSSVRKNAYLLKGEYVGKVFVRDAETGDVFAIERLDRENISEYHLTA  
VIVDKDTGENLETSSFTIKVHVDVNDNWPVFTHRLFNASVPESAVGTSVISVTAVDADD  
PTVGDHASVMYQILKGKEYFAIDNSGRIITITKSLDREKQARYEIVVEARDAQGLRGDSG  
TATVLVTLQDINDNFPFFTQTKYTFVVPEDTRVGTSGSLFVEDPDEPQNRMTKYSILRG  
DYQDAFTIETNPAHNEGIIKPMKPLDYEYIQQYSFIVEATDPTIDLRYSPPAGNRAQVI  
INITDVDEPPIFQQPFYHFQLKENQKKPLIGTVLAMPDAARHSIGYSIRRTSDKGQFFR  
VTCKGDIYNEKELDREVYPWYNLTVEAKELDSTGTPTGKESIVQVHIEVLDENDNAPEFA  
KPYQPKVCENAVHGQLVLQISAIDKDITPRNVKFKFILNTENNFTLTDNHDNTANITVKY  
GQFDREHTKVHFLPVVISDNGMPSRTGTSTLTAVCKCNEQGFTFCEDMAAQVGVSIQA  
VVAILLCILITITVITLLIFLRRRLRKQARAHGKSVPEIHEQLVTYDEEGGGEMDTTSYDV  
SVLNSVRRGGAKPPRPALDARPSLYAQVQKPPRHAPGAHGGPGEMAAMIEVKKDEADHDG  
DGPPYDTLHIYGYEGSEIAESLSSLGTDSSSDVDYDFLNDWGPRFKMLAELYGSDPRE  
ELLY

>sp|Q9ULB5|CADH7\_HUMAN Cadherin-7 OS=Homo sapiens GN=CDH7 PE=2 SV=2

MKLKGVFCHFLQLIALFLCFSGMSQAELSRSRSPYFQSGRSRTKRSWVWNQFFVLEEY  
MGSDPLYVGKLSVDKGDGSIKYLSGEGASSIFIIDENTGDIHATKRLDREEQAYYTL  
RAQALDRLTNKPVEPESEFVIKIQDINDNEPKFLDGPYTAGVPEMSPVGTSVVQVTATDA  
DDPTYGNSARVVYSILQGQPYFSVEPKTGVIKTALPNMDREAKDQYLLVIQAKDMVGQNG  
GLSGTTSVTVTLTDVNDNPPRFPRRSYQYNVPESLPVASVVARIKAADADIGANAEMEYK  
IVDGDGLGIFKISVDKETQEGIIITIKELDFEAKTSYTLRIEAANKDADPRFLSLGPFSD  
TTTVKIIVEDVDEPPVFSSPLYPMEVSEATQVGNIIGTVAAHDPSSNSPVRYSIDRNTD  
LERYFNIDANGVITAKSLDRETNAIHNITVLAMESQNPSQVGRGYVAITILDINDNAP  
EFAMDYETTVCENAQPGQVIQKISAVDKDEPSNGHQFYFSLTTDATNNHNFSLKDNKDNT  
ASILTRRNGFRREQSVYYLPFIVDSGSPSLSTNTLTIRVCDCDADGVAQTCNAEAYV  
LPAGLSTGALIAILACVLTLLVILLIVTMRRRKKEPLIFDEERDIRENIVRYDDEGGGE  
EDTEAFDMAALRNLNVIIRDTKRRDVTPEIQFLSRPAFKSIPDNVIFREFIWERLKEADV  
DPGAPPYDSLQTYAFEGNGSVAESLSSLDSISSNSDQNYDYLSDWGPRFKRLADMYGTGQ  
ESLYS

>sp|Q5T440|CAF17\_HUMAN Putative transferase CAF17, mitochondrial OS=Homo sapiens GN=IBA57  
PE=1 SV=1

MATAALLRGATPGRGGPVWRWRLRAAPRCRLAHSSCSPGGDPTAGAAWACFRLDGRTLRL  
VRGPDAAPFLGLLTNELPLPSPAAGAPPAARAGYAHFLNVQGRTLYDVILYGLQEHSE  
VSGFLLCEDSSVQGAQLKHLALYIRRKVTVEPHPELRVWAVLPSSPEACGAASLQERAG  
AAAILIRDPRARMGWRLLTQDEGPALVPGGRLGDLWDYHQHRYLQGVPEGVRDLPPGVA

LPLESNLAFMNGVSFTKGCYIGQELTARTHHMGVIRKRLFVVRFLDPLPTSGITPGATVL  
TASGQTVGKFRAGQGNVGLALLWSEKIKGPLHIRASEGAQVALAASVPDWWPTVSK

>sp|P35218|CAH5A\_HUMAN Carbonic anhydrase 5A, mitochondrial OS=Homo sapiens GN=CA5A PE=1  
SV=1

MLGRNTWKTSAFSFLVEQMWAPLWSRSMRPGRWCSQRSCAWQTSNNTLHPLWTVPVSVPG  
GTRQSPINIQWRDSVYDPQLKPLRVSYEAASCLYIWNTRYLFQVEFDDATEASGISGGPL  
ENHYRLKQFHFHWGAVNEGSEHTVDGHAYPAELHLVHNSVKYQNYKEAVVGENGLAVI  
GVFLKLGAAHQTLQRLVDILPEIKHKDARAAMRPFDPSTLLPTCWDYWTYAGSLTTPPLT  
ESVTWIIQKEPVEVAPSQLSAFRTLLFSALGEEKMMVNRYRPLQLPLMNRKVVASFQATN  
EGTRS

>sp|Q9HA72|CAHM2\_HUMAN Calcium homeostasis modulator protein 2 OS=Homo sapiens GN=CALHM2  
PE=2 SV=1

MAALIAENFRFLSLFFKSKDVMIFNGLVALGTVGSQELFSVVAFHCPSPARNLYGLAA  
IGVPALVLFIIIGIILNNHTWNLVAEQHRRTKNCSAAPTFLLLSSILGRAAVAPVTWSVI  
SLLRGEAYVCALSEFVDPSSLTAREEHFPSAHATEILARFPCKENPDNLSDFREEVSRRL  
RYESQLFGWLLIGVVAILVFLTKCLKHYCSPLSYRQEAYWAQYRANEDQLFQRTAEVHSR  
VLAANNVRRFFGFVALNKDDEELIANFPVEGTQPRPQWNAITGVVLYRENQGLPLYSRLH  
KWAQGLAGNGAAPDNVEMALLPS

>sp|P30988|CALCR\_HUMAN Calcitonin receptor OS=Homo sapiens GN=CALCR PE=1 SV=2

MQFSGEKISGQRDLQKSKMRFTFTSRCLALFLLLNHPTPILPAFSNQTYPTIEPKPFLYV  
VGRKKMDAQKYCYDRMQQLPAYQGEGPYCNRTWDGWLCDWDTAGVLSYQFCPDYFPDF  
DPSEKVTKYCDEKGVWFKHPENNRTWSNYTMCNAFTPEKLKNAYVLYLAIVGHSLSIFT  
LVISLGIFFVRKLTITIFPLNWKYRKALSLGCQRVTLHKNMFLTYILNSMIIIIHLVEVV  
PNGELVRRDPVSKILHFFHQYMMACNYFWMLCEGIYLHTLIVVAVFTEKQRLRWYYLLG  
WGFPLVPTTIHAITRAVYFNDNCWLSVETHLLYIIHGPMVMAALVVNFFFLNIVRVLVTK  
MRETHEAESHYMLKAVKATMILVPLLGIFVFPWRPSNKMKGKIYDVMHSLIHFQGGF  
VATIIYCFCNNEVQTTVKRQWAFKIQWNQRWGRRPSNRSARAAAAAAEAGDIPIYICHQE  
PRNEPANNGEESAEIIPLNIIIEQESSA

>sp|P01258|CALC\_HUMAN Calcitonin OS=Homo sapiens GN=CALCA PE=1 SV=2

MGFQKFSFPFLALSILVLLQAGSLHAAPFRSALESSPADPATLSEDEARLLLAALVQNYVQ  
MKASELEQEEREGLSDSPRSKRCGNLSTCMLGTYTQDFNKFHTFPQTAIGVGAPGKKR  
DMSSDLERDHRPHVSMQNAN

>sp|Q05682|CALD1\_HUMAN Caldesmon OS=Homo sapiens GN=CALD1 PE=1 SV=3

MDDFERRRELRRQKREEMRLEAERIAQYRNDDDEEEAARERRRRARQERLRQKQEEESLG  
QVTDQVEVNAQNSVPDEEAKTTTTNTQVEGDDEAAFLERLARREERRQKRLQEALERQKE  
FDPTITDASLSLPSRRMQNDTAENETTEKEEKSESQRYEIEETETVTKSYQKNDWRDA  
EENKKEDKEKEEEEEKPKRGSIGENQVEVMVEEKTTESQEETVMSLKNQGIISSSEPKQ  
EEEREQGSDEISHHEKMEEDKERAERARLEAEERERIKAEQDKKIADERARIEAEEK  
AAAQERERREAEERERMREEEKRAAEERQRIKEEEKRAAEERQRIKEEEKRAAEERQRIK  
EEEKRAAEERQRARAEKEEKAKVEEQKRNKQLEEKHAMQETKIKGEKVEQKIEGKVVNE  
KKAQEDKLQTAVLKKQGEKGTQVQAKREKLQEDKPTFKKEEIKDEKIKKDKPEPKKEEVKS  
FMDRKKGFTEVKSQNGEFMTHLKHTEENTFSRPGGRASVDTKAEAGAPQVEAGKRLEELR  
RRRGETESEFEKQKQKQEALEELKKKREERRKVLVEEQRRKQEEADRKLREEEE  
KRRLEKEIERRRAEAAEKQKMPEDGLSDDKKPFKCTPKGSSLKIEERAFLNKSQVQS

SGVKSTHQA AIVSKIDSRLEQYTS AIEGTS AKPTKPAASDL PVPAEGVRNIKSMWEKGN  
VFSSPTAAGTPNKETAGLKVGVS SRINELTKTPDGNKSPAPKPSDLRPGDVSSKRNLWE  
KQSVDKVTSPTKV

>sp|Q5T5Y3|CAMP1\_HUMAN Calmodulin-regulated spectrin-associated protein 1 OS=Homo sapiens  
GN=CAMSAP1 PE=1 SV=2

MVDASGRAAAEGWRKMEAPDGAADLVPLDRYDAARAKIAANLQWICAKAYGRDNIPEDL  
RDPFYVDQYEQEHKPPVIKLLSSELYCRVCSLILKGDQVAALQGHQSVIQALS RKG IY  
VMESDDTPVTESDL SRAPIKMSAHMAMDALMMAYTVEMISIEKVVASVKRFSTFSASKE  
LPYDLEDAMVFWINKVNLKMREITEKEVKLKQQLLES PAHQKVRYRREHLSARQSPYFPL  
LEDLMRDGSDGAALLAVIHYYCPEQMKLDDICLKEVTS MADSLYNIRLLREFSNEYLNKC  
FYLTLEDMLYAPLVLPNMVFIAELFWWFENVKPDFVQPRDVQELKDAKTVLHQKSSRP  
PVPISNATKRSFLGSPAAGTLAELQPPVQLPAEGCHRHYLHP EEP EYLGKGTAAFSPSHP  
LLPLRQKQKQSIQGEDIPDQRHSNSLTRVDGQPRGAAIAWPEKKTRPASQPTPFALHHA  
ASCEVDPSSGDSISLARSISKDSLASNIVNLTPQNQPHPTATKSHGKSLLSNVSI EDEEE  
ELVAIVRADVVPQQADPEFP PRASPRALGLTANARSPQGQLDTSESKPDSFFLEPLMPAVL  
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KSPNSHDSEPWTLLRQSDSDVDVDEEAEHDFMGEAHPVVF SRYIGEEESAKLQEDMKVK  
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TPDASESCPAPLTTWRQKREQSPSQHGKDPASLLASELVQLHMQLEEKRRAT E AQKKKME  
ALSARQLKLKGA AFLHVVKKGKAEAAPPLRPEHFAKEYSQHNGEDCGDAVSKTEDFLVK  
EEQREELLHEPQDVKESLAF AQQHAKDPVALHELERNKVIS AALLEDTVGEVVDVNEC  
DLSIEKLNETISTLQQA ILKISQQQEQLLMKSPTVPVPGSKNNSQDHVKAPVHFVEPLS  
PTGVAGHRKAPRLGQGRNSRSGRAELKVPKDRPQGSSRSKTPTPSVETLPHLRPFPASS  
HPRTPTDPLD SALEPSGDPHGKCLFDSYRLHDESNQRTLTLSSSKDANILSEQMSLKEV  
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SEGDQKPGVGFFFKDEQKA EDELAKKRAAFLLKQQRKAEEARVRKQQL EAEVELKRDEAR  
RKAEDRVRKEEEKARREL IKQEYLRKQQQILEEQGLGPKSKPKKPRPKSVHREESCS  
DSGTCSSSTPDNLSRTQSGSSLASAAATTEPESVHSGGTPSQRVESMEALPILSRNPSR  
STDRDWETASAASSLASVAEYTGPKLFKEPSSKSNKPIIHNAISHCCLAGKVN EPHKNSI  
LEELEKCDANHYIILFRDAGCQFRALYCYYPDTEE IYKLTGTGPKNITKKMIDKLYKYSS  
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>sp|Q6MZZ7|CAN13\_HUMAN Calpain-13 OS=Homo sapiens GN=CAPN13 PE=1 SV=2

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IWKRPQDLPGGPPHFILDDISRFDIQQGAADCWFLAALGSLTQNPQYRQKILMVQSFSH  
QYAGIFRFRFWQCGQWVEVVIDDRLPVQGDKCLFVRPRHQNQEFWPCLLEKAYAKLLGSY  
SDLHYGFLEDALVDLTGGVITNIHLHSSPVDLVKAVKTATKAGSLITCATPSGPTDTAQA  
MENGLVSLHAYTVTGAEQIQYRRGWEEIISLWNPWGWGEAEWRGRWSDGSQEWEEETCDPR  
KSQLHKKREDGEFWMSCQDFQKFIAMFICSEIPITLDHGNTLHEGWSQIMFRKQVILGN  
TAGGPRNDAQFNFSVQPEMEGTNVVVCVTVAVTPSNLKAEDAKFPLDFQVILAGSQRFRE  
KFPPVFFSSFRNTVQSSNNKFRNFTMTYHLSPGNYVVVAQTRRKSAEFLLRIFLKM PDS  
DRHLSSHFNLRMGKSPSEHGSQQSIFNRYAQQRLDIDATQLQGLLNQELLTGPPGDMFSL  
DECRLVALMELKVNRLDQEEFARLWKRLVHYQHVFQKVQTS PGVLLSSDLWKAIENTD  
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EWMSLVMYN

>sp|A8MX76|CAN14\_HUMAN Calpain-14 OS=Homo sapiens GN=CAPN14 PE=2 SV=2

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VPLNQSFTEKYAGIFRFWFWHYGNWVPVVIDDRLPVNEAGQLVFSSTYKNLFWGALLEK  
AYAKLSGSYEDLQSGQVSEALVDFTGGVTMTINLAEAHGNLWDILIEATYNRTLIGCQTH  
SGEKILENGLVEGHAYTLTGIRKVTCKHRPEYLVKLRNPWGKVEWKGDWSDSSSKWELLS  
PKEKILLRLKDNDEGEFWMTLQDFKTHFVLLVICKLTPGLLSQEAAQKWYTMREGRWEKR  
STAGGQRQLLQDFTWKNPQFLLSVWRPEEGRRSLRPCSVLVSLQKPRHRCRKRKPLLA  
GFYLYRMNKYHDDQRRLPPEFFQRNTPLSQPDRFLKEKEVSQELCLEPGTYLIVPCILEA  
HQKSEFVLRVFSRKHFYEIGSNSGVVFSKEIEDQNERQDEFFTKFFEKHPEINAVQLQN  
LLNQMTWSSLGSRQPFSSLEACQGILALLDLNASGTMSIQEFRDLWKQLKLSQKVFBHKQD  
RSGSYLNWEQLHAAMREAGIMLSDDVCQLMLIRYGGPRLQMDFVSFIHMLLRVENMEDVF  
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>sp|Q8WVQ1|CANT1\_HUMAN Soluble calcium-activated nucleotidase 1 OS=Homo sapiens GN=CANT1  
PE=1 SV=1

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SHRPAPGRPPTHNAHNWRLGQAPANWYNDTYPLSPPQRTPAGIRYRIAVIADLDTESRAQ  
EENTWFSYLKKGYLTLSDSGDKVAVEWDKDHGVLESHLAEKGRGMELSDLIVFNGKLYSV  
DDRTGVVYQIEGSKAVPWVILSDGDGTVEKGFKAEWLAVKDERLYVGGLGKEWTTTGDV  
VNENPEWVKVVGKGSVDHENWVSNYNALRAAAGIQPPGYLIHESACWSDTLQRWFFLPR  
RASQERYSEKDDERKGANLLLSASPDFGDIASHVGAVVPTHGFSSFKFIPNTDDQIIVA  
LKSEEDSGRVASYIMAFTLDGRFLLPETKIGSVKYEGIEFI

>sp|Q01518|CAP1\_HUMAN Adenylyl cyclase-associated protein 1 OS=Homo sapiens GN=CAP1 PE=1  
SV=5

MADMQNLVERLERAVGRLEAVSHTSDMHRGYADSPSKAGAAPYVQAFDSLLAGPVAEYLK  
ISKEIGGDVQKHAEMVHTGLKLERALLVTASQCQQAENKLSDLLAPISEKIKEVITFRE  
KNRGSKLFNHLASVSESIQALGWVAMAPKPGPYVKEMNDAAMFYTNRVLKEYKDVKKHV  
DWVKAYLSIWTELQAYIKEFHTTGLAWSKTGPVAKELSGLPSPGSAAGSCPPPPPPCPPPP  
PVSTISCSYESASRSSLFAQINQGESITHALKHVSDDMKTHKNPALKAQSGPVRSRGPKEF  
SAPKPKQTSPPSKRATKKEPAVLELEGKKWRVENQENVSNLVIEDTELKQVAYIYKCVNTT  
LQIKGKINSITVDNCKKLGLVFDDVVGIVEIINSKDVKVQVMGKVPTISINKTDGCHAYL  
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>sp|P47710|CASA1\_HUMAN Alpha-S1-casein OS=Homo sapiens GN=CSN1S1 PE=1 SV=1

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EQIRRMNENSHVQVPFQQLNQLAAYPYAVWYYPQIMQYVPFPPFSDISNPTAHENYEKNN  
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>sp|Q8NG31|CASC5\_HUMAN Protein CASC5 OS=Homo sapiens GN=CASC5 PE=1 SV=3

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FADTIKVFQTESHMIVRKSEMEGCSAMVPSQLQLLPPGFKRFSCLSLPETETGENLLLI  
QNKKLEDNYCEITGMNTLLSAPIHTQMQQKEFSIIHTREKRHANDQTVIFSDENQMDLT  
SSHTVMITKGLLDNPISEKSTKIDTTSFLANLKLHTEDSRMKKEVNFSDQNTSSENKID  
FNDFIKRLKTGKCSAFPDPVDKENFEIPIYSKEPNSASSTHQMHVSLKEDENNSNITRLF

REKDDGMNFTQCHTANIQTLIPTSETNSRESKGN DITIYGNDFMDLTFNHTLQILPATG  
NFSEIENQTQNAMDVTTGYGTKASGNKTVFKSKQNTAFQDLSINSADKIHITRSHIMGAE  
THIVSQTCNQDARILAMTPESIYNSPSIQGCKTVFYSSCNDAMEMTKCLSNMREEKNLLK  
HDSNYAKMYCNP DAMSSLTEKTIYSGEENMDITKSHTVAIDNQIFKQDQSNVQIAAAPTP  
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TESHTSNLGSQVPLAAYNLAPESTSESHSQSKSSSDECEEITKSRNEPFQRSDIIAKNSL  
TDTWNKDKDWLKLIPYLDKDS PQSADCNQEIATSHNIVYCGVLDKQITNRNTVSWEQS  
LFSTTKPLFSSGQFSMKNHDTA ISSHTVKSVLGQNSKLAEPLRKSLSNPTPDYCHDKMI  
CSEEEQNMDLTKSHTVVIGFGPSELQELGKTNLEHTTGQLTMMNRQIAVKVEKCGKSPIE  
KSGVLKSNCIMDVLEDES VQKPKFPKEKQNVKIWGRKSVG GPKIDKTI VFSEDDKNDMDI  
TKSYTIEIENHRP LLEKR DCHLVPLAGTSETILYTCRQDDMEITRSHTTALECKTVSPDEI  
TTRPMDKTVVFDN HVELEMTESHTVFIDYQEKERTDRPNFELSQRKSLGTPTVICTPTE  
ESVFFPGNGESDRLVANDSQLT PLEEWSNNRGPVEVADNMELSKSATCKNIKDVQSPGFL  
NEPLSSKSQRRKSLKLNDKTI VFSENHKNDMDITQSCMVEIDNESALEDKEDFHLGAS  
KTILYSCGQDDMEITRSHTTALECKTLLPNEIAIRPMDKTVLFTDNYS DLEVTD SHTVFI  
DCQATEKILEENPKFGIGKGKNLGVSF PKDNSCVQEI AEKQALAVGNKIVLHTEQKQQLF  
AATNRTTNEIIKFHSAAMDEKVI GKVVDQACTLEKAQVESCQLNNRRDRNVDF TSSHATA  
VCGSSDNYSCLPNVISCTDNLEGSAMLLCDKDEEKANYCPVQNDLAYANDFASEYYLESE  
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LNI IENSSAPICENKPKILNSEEWFAAACKKELKENIQT TNYNTALDFHSNSDVT KQVIQ  
THVNAGEAPDPVITSNVPCFHSIKPNLNNLNGKTGEFLAQTVHLPPLPEQLLELG NKAH  
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KKIRKNEIKFSDTTQDREIFDHHT EEDIDKSANSVLIKNLSRTPSSCSSLDSIKADGTS  
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MDKILKKIDNCLTEMETETKNLEDEEKNNPVEEWDSEMRAAEKELEQLKTEEEELQRNLL  
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EESVVGFPFLDKRYRKIVDVNFQSLLEDQAPPSSLLVHKLIFQYVEEKESWKKTCCTQH  
QLPKMLEEFSLVHHCRLLGEEIEYLKRWGPNYLMNIDINNNELRLLFSSSAFAKFEI  
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YH

>sp|P07498|CASK\_HUMAN Kappa-casein OS=Homo sapiens GN=CSN3 PE=1 SV=3  
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NLYQRRPAIAINNPYVPTYANPAVVRPHAQIPQRQYLPNSHPPTVVRPNLHPSFIAI  
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TA

>sp|Q92851|CASP\_A\_HUMAN Caspase-10 OS=Homo sapiens GN=CASP10 PE=1 SV=3  
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VFEHLLAEDDLSEEDPFFLAELLYIIRQKKLLQHLNCTKEEVERLLPTRQRVSLFRNLLY  
ELSEGIDSENKDMIFLLKDSL PKTEMTSLSFLAFLEKQKIDEDNLTCLEDLCKTVVVK



LLRNIEKYKREKAIQIVTPVDKEAESYQGEEELVSQTDVKTFLEALPQESWQNKHAGSN  
GNRATNGAPSLVSRGMQASANTLNSETSTKRAAVYRMNRNHRGLCVIVNNHSFTSLKDR  
QGTHKDAEILSHVFQWLGFTVHIHNNVTKVEMEMVLQKQKCNPAHADGDCVFVCILTHGR  
FGAVYSSDEALIPIREIMSHFTALQCPRLAEKPKLFFIQACQGEEIQPSVSIADALNPE  
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>sp|Q8WUQ7|CATIN\_HUMAN Cactin OS=Homo sapiens GN=CACTIN PE=1 SV=3

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PGRSQSPRAAAAALSQQQSLQERLRLREERKQQEELMKAFETPEEKRRRLAKKEAKERK  
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RLELQKVKQLRLEREREKAMREQELEMLQREKEAEHFKTWEEQEDNFHLQQAQLRSKIRI  
RDGRAKPIDLLAKYISAEDDDLAVEMHEPYTFLNGLTVADMEDLLEDIQVYMELEQGKNA  
DFWRDMMTTITEDIKSLRKLEASGKGPGERREGVNASVSSDVQSVFKGKTYNQLQVIFQG  
IEGKIRAGGNLDMGYWESLLQQLRAHMARARLRERHQDVLQKLYKLKQEQGVESEPLF  
PILKQEPQSPSRSLPEDAAPTPPGPSSEGGAEEVDGATPTEGDGDGDGEGEGEAV  
LMEEDLIQQSLDDYDAGRYSPRLTAHELPLDAHVLEPDEDLQRLQLSRQQLQVTGDASE  
SAEDIFFRRAKEGMGQDEAQFSVEMPLTGKAYLWADKYRPRKPRFFNRVHTGFEWNKYNQ  
THYDFDNPPPKIVQGYKFNIFYPDLDKRSTPEYFLEACADNKDFAILRFHAGPPYEDIA  
FKIVNREWEYSHRHGFRCQFANGIFQLWFHFKRYRYRR

>sp|P07711|CATL1\_HUMAN Cathepsin L1 OS=Homo sapiens GN=CTSL PE=1 SV=2

MNPTLILAAFCGLIASATLTFDHSLEAQWTKWKAMHNRLYGMNEEGWRRRAVWEKNMKMIE  
LHNQEYREGKHSFTMAMNAFGDMTSEEFQVMNGFQNRKPRKGKVFQEPLFYEAPRSVDW  
REKGYVTPVKNQGGCGSCWAFSATGALEGQMFRTGRLISLSEQLNVDSCGPQGNEGCNG  
GLMDYAFQYVQDNGGLDSEESYPYEATEESCKYNPKYSVANDTGFDIPKQEKALMKAVA  
TVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDMDHGVLVVGYGFESTESDNNKYWLVKV  
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>sp|P43234|CATO\_HUMAN Cathepsin O OS=Homo sapiens GN=CTSO PE=2 SV=1

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ENSTAFYGINQFSYLFPEEFKAIYLRSKPSKFPYSAEVHMSIPNVSLPLRFDWRDKQVV  
TQVRNQMQCGGCWAFSVVGAVESAYAIKGPLEDLSVQQVIDCSYNNYGCNGGSTLNALN  
WLNKMVKLVKDSEYPFKAQNLCHYFSGSHSGFSIKGYSAYDFSDQEDEMAKALLTFGP  
LVVIVDAVSWQDYLGGIIQHHCSSGEANHAVLITGFDKTGSTPYWIVRNSWGSSWGVDGY  
AHVKMGSNVCGIADSVSSIFV

>sp|Q8WU43|CB015\_HUMAN Uncharacterized protein C2orf15 OS=Homo sapiens GN=C2orf15 PE=2  
SV=1

MSSTLGKLSNQVEETLPLLKKVPANYFHICSAILMGFSLSKSATQVSAIHMSKVDDHLI  
RGTEKSRLEPATQLFQNTKKIRLEDTNQENFTRIEGTGTGSLSGKALGSVVYVKESDGLE  
MTDVE

>sp|Q68DN1|CB016\_HUMAN Uncharacterized protein C2orf16 OS=Homo sapiens GN=C2orf16 PE=2  
SV=3

MELTPGAQQQGINYQELTSGWQDVKSMMLVPEPTRKFPSPGPLLTSVRFSNLSPEQQQDV  
KSLEFTVEPKLQSVKHVKLSSVSLQQTIKSVELAPGSLPQRVKYGEQTPRTNYQIMESSE  
LIPRPGHQFAKYAEMIPQPKYQIPKSANLISIPIYHATESSEMAQGLAYKGIDTVEKSVG

LTPKLTGRAKESLGMLLQPDQLQVPKFVDLTPMVRDQGSKFLGLTPEKSYQILETMELLSQ  
SRPRVKDVGELYMKPLQQTVEYEGITPELKHYFTEAMGLTAEARIQANEEFFGMTPKPTSQ  
ATGFAERSPRLCQNLCEVEVISEKRLQGEESVVLIPKSLHHVPDSASGMTPLGHRVPE  
SVELTSKSGVQVEKTLQLTPKPQHHVGSPIISGLGHQVPESVNLTKQWLQMEESLEVP  
LKQTSQVIGHEESVELTSEARQHREVSMLTKSKNQSMKSPGTTGPGPLGRIVEFMRISPE  
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ELTSPQTSPFEEHTILTHKQGLQAVKSTVIKTEPPKVMETEDNLGHVCQNRCQKLTSE  
ELQVGTDFSRFLQSSSTLISSSVRTASELGGWDSGIEVSRALDIKNPGTDILQPEET  
YIDPTMIQSLTFPLALHNQSSDKTANIVENPCPEILGVDVISKETTKRKQMEEENSLQR  
HLPQSWRSRSTFQAESGVQGLIKSFQGRQHNVWESHAWRQLPRKYLSTMLMLGNILG  
TTMERKLCQSLSAERATADTCQSIQNLFGIPAELMEPSQSLPEKGPVTISQPSVVKNYI  
QRHTFYHGHKKRMALRIWTRGSTSSIQQYSGTRVRIKKTNSTFNGISQEVIQHMPVSCA  
GGQLPVLKSESSLIFYDREDLVPMESEDSQSDSQTRISESQHSLKPNYLSQAKTDFS  
EQFQLLEDLQKIAAKLLRSQIPDPVPPPLASGLVLKYPICLQCGRCGLNCHHKLQTT  
GPYLLIYPQLHLVLRTPEGHGEVRLHLGFRLRIGKRSQISKYRERDRPVIRRSPISPSQRK  
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NLPESDSESTQNEKRAKVRTKKTSDSKYPMKRITKRLRKHRKFYTNSTTIESPSRELAA  
HLRRKRIGATQTSTASLKRQPKPSQPKFMQLLFQSLKRAFQTAHRVIAASVGRKPDGTR  
PDNLWASKNYYPKQNARDYCLPSSIKRDKRSADKLTPAGSTIKQEDILWGGTVQCRSAQQ  
PRRAYSFQPRPLRLPKPTDSQSGIAFQTASVGQPLRTVQKDSSSRSKNFYRNETSSQES  
KNLSTPGTRVQARGRILPGSPVKRTWHRHLKDKLTHKEHNHPSFYRERTPRGPSETRHN  
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SCHSLSERGLHSPSRSHRGPSQRRHHSPSERSHRSPSERSHRSSERRHRSQSRSHRG  
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SHHSPERRHHSPSERSHCSPSERSHCSPERRHRSPEKSHHSPERSHHS  
PSERRRHSPERSRHSLERSHRSPERRSHRSFERSHRRISERSHSPSEKSHLSPLERS  
RCSPSERRGHSSSGKTCHSPSERSHRSPSGMRQGTSESRSHRSSCERTRHSPSEMRPGRP  
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EATR

>sp|Q08AI8|CB054\_HUMAN Uncharacterized protein C2orf54 OS=Homo sapiens GN=C2orf54 PE=2  
SV=2

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YSRGLEAFQFALRSSEDPMDMEVPLWVDAEALLIEPEATQPEDGLELCHLGVPRGAGL  
ERWTTEDTFTASSEDAKCRGHIVPSKVLCLVDLLVAAIVHCKHHSIIAPGSLNAASLR  
EEQLHLSLLVSSGWRITISFHVVPVRRKLGAPALEGVQMPGFPEGSLRRILSQGVDLVP  
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LLWASVLFAPEDWAELQGAVERLLVLLCCLATRKLPFLHPQRNLLQGSGLDLGAIYQ  
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>sp|A6NCS6|CB072\_HUMAN Uncharacterized protein C2orf72 OS=Homo sapiens GN=C2orf72 PE=1  
SV=2

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PGAAPGGAAGAGPGAARGAQAARAAGAAGAAAAAARAI RSPLVFVLCRASSLAARE  
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AAAYCPGLPASCLAVQAAACRALQAAGAGQPVEGAWERPGLPGLLACFSWGPWSRRKNQD  
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>sp|Q6ZV80|CB091\_HUMAN Uncharacterized protein C2orf91 OS=Homo sapiens GN=C2orf91 PE=2 SV=1

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RHTLSQVPNKGHEKASAVQLPEKQGTQDQSRRGPTSAVTKARTSYPESETFIVYLC SYFWN  
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>sp|Q5RIA9|CBWD5\_HUMAN COBW domain-containing protein 5 OS=Homo sapiens GN=CBWD5 PE=2 SV=1

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YILTEQH SKRVAVILNESGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNLRAI  
ENLMQKKGKFD DILLETTGLADPGAVTSMFVDAELGSDIYLDGIITIVDSKYGLKHLTE  
EKPDGLINEATRQVALADIILINKTDLVPEEDVKKLRTTIRSINGLGQILETQRSRVDLS  
NVLDLHAFDSLGSISLQKKLQHVPGTQPHLDQSIVTITFEVPGNAKEEHLNMF IQNLLWE  
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>sp|Q14781|CBX2\_HUMAN Chromobox protein homolog 2 OS=Homo sapiens GN=CBX2 PE=1 SV=2

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KEHEKEVQNRKRGKRPRGRPRKL TAMSSCSRSLKEPDAPSKSKSSSSSSSTSSSSSS  
DEEDSDLD AKRGPRGRETHPVPQKKAQILVAKPELKDPIRKKRGRKPLPPEQKATRRPV  
SLAKVLKTARKDLGAPASKLPPLSAPVAGLAALKAHAKEACGGPSAMATPENLASLMKG  
MASSPGRGGISWQSSIVHYMNRM TQSAQAASRLALKAQATNKCGLGLDLKVRTQKGELG  
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VKNGMPGVGLLARHATATKGPATNPAPGKGTGSLIGASGATMPTDTSKSEKLASRAVA  
PPTPASKRDCVKGSATPSGQESRTAPGEARKAATLPEMSAGESSSSSDSDPSASPPSTG  
QNPSVSQTSQDWKPTRSLIEHVFVTDVTANLITVTVKESPTSVGFFNL RHY

>sp|Q13185|CBX3\_HUMAN Chromobox protein homolog 3 OS=Homo sapiens GN=CBX3 PE=1 SV=4

MASNKTTLQKMGKKQNGKSKKVEEAPEEFVVEKVLDRRVVNGKVEYFLWKGF TDADNT  
WEPEENLDCEPLIEAFLNSQKAGKEKDGT KRKSLSDSESDDSKSKKKRDAADKPRGFARG  
LDPERIIGATDSSGELMFLMKWKDSDEADLV LAKEANMKCPQIVIAFYEERLTWHSCPED  
EAQ

>sp|A6NI87|CBY3\_HUMAN Protein chibby homolog 3 OS=Homo sapiens GN=CBY3 PE=3 SV=3

MWASRDHLPEPDLGDAAPPSPSSFWTSGLP RQERSTSRQSRGSPSSTCVPYKVHALAT  
FECSATSHASRLWQTLQQFWADHISRPFSPRRPPLRRMPSLSTFYLLDHNTRQ AELGLAY  
GAPCMRLSNQAFVFRGRWTTESQLARTSP LLSRTAWGWAQVQRSKSKVLL EENNYLK  
LQQELLIDMLTETMARMH LLEKQRNPEVIPTAAARAGQRKMRKRAGASAGVLMIQPCALD  
SQ

>sp|Q9HBI5|CC014\_HUMAN Uncharacterized protein C3orf14 OS=Homo sapiens GN=C3orf14 PE=2 SV=1

MTSLFAQEIRLSKRHEEIVSQRLMLLQQMENKLG DQHTEKASQLQTVETA FKRNL SLLKD  
IEAAEKSLQTRIHP LPRPEVVSLETRYWASVEEYIPKWEQFLLGRAPYPFAVENQNEAEN  
TIQNEAQR

>sp|Q3SXR2|CC036\_HUMAN Uncharacterized protein C3orf36 OS=Homo sapiens GN=C3orf36 PE=2 SV=1

MQAETILEGLEAGLPQAVSSGLSLVPAPGLVLTCLSAPSGPGMALEPPPTTLRKAFLAQ  
STLLESTLEGAPWAAPHPEEQRRSPACSQHTPPLPSTPTGPPPCSPGGNHPLCALSGR  
GGGRCSIPSLSSSSTFSLFSSGCWNPRVKLRVRKSQSQGRAGQLI

>sp|Q9BWC9|CC106\_HUMAN Coiled-coil domain-containing protein 106 OS=Homo sapiens GN=CCDC106 PE=1 SV=1

MNDRSSRRRTMKDDETFEISIPFDEAPHLDPQIFYSLSPSRRNFEEPPEAASSALALMNS  
VKTQLHMALEARNWLQKRIEDLEEERDFLRCLDKFISSARMEAEDHCRMKPGPRRMEGD  
SRGGAGGEASDPESAASSLSGASEEGSASERRRQKQKGGASRRRFGKPKARERQRVKAD  
GVLCRYKKILGTQKLSMSRAFEHHRVDRNTVALTTPIAELLIVAPEKLAEVGEFDPSK  
ERLLEYSRRCFALDDETLKKVQALKKSKLLLPITYRFR

>sp|Q8TBZ0|CC110\_HUMAN Coiled-coil domain-containing protein 110 OS=Homo sapiens GN=CCDC110 PE=1 SV=1

MSPEKQHREDEVDVLLSASKILNSSEGVKESGCSDEYGCIAESENQIQPSALKVLQ  
QQLESFQALRMQTLQNVSMVQSEISEILNKSIIIEVENPQFSSEKNLVFGTRIEKDLPTEN  
QEENLSMEKSHHFEDSKTLHSVEEKLSGDSVNSLPQSVNVPSQIHSEDTLTSTDNLS  
SNIIIHPSSENSDILKNYNNFYRFLPTAPPNVMSQADTVILDKSKITVPFLKHGFCENLDD  
ICHSIKQMKELQKSHDGEVALTNELQTLQTDPDVHRNGKYDMSPIHQDKMNFIEENLD  
GNLNEDIKSKRISELEALVKLLPFRETIVSKFHVHFCRKCKKLSKSEMRHGKKNKNNKE  
IPITGKNITDLKFHSRVPRYTLSFLDQTKHEMKDKERQPFVLVKQGSIISENEKTSKVNVS  
TEQCVAKIQYLQNYLKESVQIQKKVMELESENNLKSKMKPLIFTTQSLIQKVETYEKQL  
KNLVEEKSTIQSKLSKTEEYSKECLKEFKKIIISKYNVLQGQNKTLKKNLQSLQLEKQMM  
EALDQLKSKEHKTQSDMAIVNNENNRMSIEMEAMKTNILLIQDEKEMLEKKTHQLLEKS  
SLGNELKESQLEIIQLKEKERLAKTEQETLLQIIETVKDEKLNLETTLQESTAARQIMER  
EIEINIQTYQSTAEENFLQEIKNAKSEASIKNSLSEIGKECEMLSKVMETKTDNQLKE  
ELKKHSQENIKFENSISRLTEDKILLENYVRSIENERDTLEFEMRHLQREYLSLSDKICN  
QHNDPSKTTYISRREKFHFDNYTHEDTSSPQSRPLASDLKGYFKVKDRTLKHH

>sp|Q494R4|CC153\_HUMAN Coiled-coil domain-containing protein 153 OS=Homo sapiens GN=CCDC153 PE=1 SV=2

MPPKNKEKGKKSQAQKKKNWGADVVAESRHRLVVLEKELLRDHLALRRDEARRAKASED  
QLRQLQGVEAELEGARSEGKAIYAEMSRQCHALQEDMQTRSKQLEEEVKGLRGQLEACQ  
REAAAAREEAQALGERDQALQALRAHMADMEAKYEEILHDSLDRLLAKLRAIKQQWDGA  
ALRLHARHKEQQRQFGLTPPGSLRPPAPSL

>sp|Q569K6|CC157\_HUMAN Coiled-coil domain-containing protein 157 OS=Homo sapiens GN=CCDC157 PE=2 SV=3

MAHLLGSQACMESLRDLDLQGAIVDVFSRAGPVRFPWKFDPDRMACDLDMVALLEHYD  
HVPGDPEFTQLSHAVLLELVIDRLLLLLQSCMSYLENLGSEQMMPPQAAGPCMSVGLTV  
RRFWDLLRLGTLHQQPLPQKGANQRETPTSPTTKGEPARSPEYLTTKLKPSPPVLGL  
PQTCQEPESIPVRASLQFPATTFKNTRSVHSQTIETALVPCDACASVQGSQKVGKVVIS  
LCQSQNLPSSLGQFQQLVQDSMGLRPLPAATVGRWAAEQRKDLRLSKHVEALRAQLEEA  
EGQKDLGRKQAGKLEQALKQEKGARRRQAEDEQCLSEWEHDKQQLTETSDLKTKMATL  
ERELKQRESTQAVEAKAQQLEEGERRAAERQVQQLQEEQVQQLAQVQQLLVGRLEGAG  
QQVCWASTELDKEKARVDSMVRHQESLQAKQRALLKQLDSLQEREELRGSLEAEQAQA

RVEEQLQSEREQGQCQLRAQQELLQSLQREKQGLEQATTDLRLTILELERELEELKERER  
LLVAFPDLHRPTETQIHGGRSSSVESQITCPTDSGNVTDHMERQVQSNDIRIRVLQEENG  
RLQSMLSKIREVAQGGGLKLIPQDRLWSPSSKGTQGATPPVQAKSTSPGPLGRQHLPSSR  
TGRTLLGQPCTSPPRQPCTSPPRQPCTSPPRQPCTSPSRQPCSQPSKSLLEGVTHLDTCT  
QNPIKVLVRLRKRLSPGRGQASSAHQPQERPM

>sp|Q8IYT3|CC170\_HUMAN Coiled-coil domain-containing protein 170 OS=Homo sapiens  
GN=CCDC170 PE=1 SV=3

MSLDCTSHIALGAASPAPEETYDHLSEVPVTRQLNHYRNVAQNARSELAATLVKFECAQ  
SELQDLRSKMLSKEVSCQELKAEMESYKENNARKSSLLTSLRDRVQEEESAALSTSKI  
RTEITAHAAIKENQELKKKVVELNEKLQKCSKENEENKKQVSKNCRKHEEFLTQLRDCLD  
PDERNDKASDEDLILKLRDLRKENEVFKGQIVILEETINVHEMEAKASRETIMRLASEVN  
REQKKAASCTEEKEKLNQDLLSAVEAKEALEREVKIFQERLLAGQQVWDASKQEVSLKK  
SSSELEKSLKASQDAVTTSQSQYFSFREKIAALLRGRLSMTGSTEDTILEKIREMDSREE  
SRDRMVSQLEAQISELVEQLGKESGFHQKALQRAQKAENMLETLQGQLTHLEAELVSGGV  
LRDNLNFEKQKYLKFLDQLSQMKLDQMAAELGFDMLRDVVLARTEQLVRLESNAV IENK  
TIAHNLQRKLKTQKERLESKELHMSLLRQKIAQLEEEKQARTALVVERDNAHLTIRNLQK  
KVERLQKELNTRDLHTELKAKLADTNELKIKTLEQTKAIEDLNKSRDQLEKMKAEKK  
LMSVKSELDTTEHEAKENKERARNMIEVVTSEMKTLLKSLEEAKEKREQLADFREVSQM  
LGLNVTSLALPDYEI IKCLERLVHSHQHVFVCACLDVTTGQERHPQGHLLH

>sp|Q6PII3|CC174\_HUMAN Coiled-coil domain-containing protein 174 OS=Homo sapiens  
GN=CCDC174 PE=1 SV=3

MDRRKKPLDVTASSLVDLKAELEFRKQEEFKQEKLLKDSGVFGPKTTNKKPSIWSKQNVG  
VSNRAEKDAEQKIEEQKTLDKAREKLEEKAKLYEKMKGDFIDEVEDMYLVDFTKIID  
KRKEMEASGAHRDSQKAGERDDDEENLPEGEIPPPQDPSEEWVDYVDSLGRSRRMRKDL  
PDLEMDKNLQGRLFISPANEKTLSEDMRKELQRQQWEEEEEREALKRPMGPVHYEDIRE  
NEARQLGVGYFAFARDKELRNKQMKTLEMLREQTTDQRTKRENIKEKRKAILEARLAKLR  
QKKMKKSKEGGTEENRDGDVIGPLPPEPEAVPTPRPAAQSSKVEVIVQERKDTKPGVPH  
IREWDRGKEFSFGYWSKRQSDLAERDPEFAPPSDYFVGQKRTGFSSSQAWSRPGPAQSD  
PGQCPDQSHGPSPEHTSPTPAPDNPPQAPTVTFTKLDDMISYYKQVT

>sp|POD097|CC192\_HUMAN Coiled-coil domain-containing protein 192 OS=Homo sapiens  
GN=CCDC192 PE=4 SV=1

MMPVDVCPDRGSQVWLEMGQCYSKKSVVPESDTSERSSMTSGSSEDIPQENKVSAS  
LDTGQMAFTLAQLESLEICKEAEEKAKALSEQLSVSEGTKSKLLEQVSRLEEKLEAVDH  
KEASGGPYEKMVLVKDQCIQKLQAEVKASQEQLIAQKLKHEKKVKKLQTDLATANAITVL  
ELNEKIKTLYEGKPAPREDSLLEGFCGGLPPVEEGDRKISLIMELSTQVSLQTERITQLK  
EVLEEKERKIQLEAERSPHPPQEVKDPPGCLPEAPVFSTHDIPPVSDENL

>sp|Q8IWP9|CC28A\_HUMAN Coiled-coil domain-containing protein 28A OS=Homo sapiens  
GN=CCDC28A PE=1 SV=1

MPRAEPRATLGEQEKAGLPLGAWRLYLLRHFRKQTELRRSGSRDVTGALLVAAVASEAV  
GSLRVAEGGPNTLLQVLRSWPWCNKELKTMEEKVKRRSPKSFSAHCTQVVNAKNAIP  
VSKSTGFSNPASQSTSQRPKLKRVMKEKTKPQGEGGKAQSTPIQHSFLTDVSDVQEMER  
GLLSLLNDFHSGKLQAFGNECSIEQMEHVRGMQEKLARLNLELYGELEELPEDKRKTASD  
SNLDRLLSDLEELNSSIQKLHLADAQDVPNTSAS

>sp|Q9BUN5|CC28B\_HUMAN Coiled-coil domain-containing protein 28B OS=Homo sapiens  
GN=CCDC28B PE=1 SV=2

MDDKKKKRSPKPCAQAQAQAPGTLRRVPVPTSHSGSLALGLPHLPSPKQRAKFKRVGKEK  
CRPVLAGGGSGSAGTPLQHSFLTEVTDVYEMEGLLNLLNDFHSGRLQAFGKECSFEQLE  
HVREMQEKLARLHFSLDVCGEEDDEEEEDGVTEGLPEEQKKTMAADRNLQLLSNLEDLS  
NSIQKLHLAENAEPEEQSAA

>sp|Q8N9Z2|CC71L\_HUMAN Coiled-coil domain-containing protein 71L OS=Homo sapiens  
GN=CCDC71L PE=1 SV=2

MRRSMKRRRRRRPVAPATAARGGDFRAEDGAGLEAREEKVVYSRSQLSLADSTKALGDAF  
KLFMPRSTEFMSSDAELWSFLCSLKHQFSPHILRSKDVYGYSSCRALVPDPPGPPTARGQ  
ARRPVPRAAAAARRRRGARAAAAARRKPRPPPPPPPEESCPAKPVAPGPCFGGRTLEEI  
WRAATPTLTTFPTIRVGSVDWGERSLAAARRRQVLRVNLEPMVRLRRFPVPRA

>sp|Q96A33|CCD47\_HUMAN Coiled-coil domain-containing protein 47 OS=Homo sapiens GN=CCDC47  
PE=1 SV=1

MKAFTHTFCVLLVFGSVSEAKFDDFEDEEDIVEYDDNDFAEFEDVMEDSVTESPQRVIIT  
EDDEDETTVELEGQDENQEGDFEDADTQEGDTESEPYDDEEFEGYEDKPDTSSSKNKDPI  
TIVDVPAPHLQNSWESYYLEILMVTGLLAYIMNYIIGKNKNSRLAQAWFNTHRELLESNFT  
LVGDDGTNKEATSTGKLNQENEHIYNLWCSGRVCCEGMLIQLRFLKRQDLLNVLARMMRP  
VSDQVQIKVTMNDEDMDTYVFAVGTRKALVRLQKEMQDLSEFCSDKPKSGAKYGLPDSLA  
ILSEMGEVTDGMMDTKMVHFLTHYADKIESVHFSDQFSGPKIMQEEGQPLKLPDTKRITLL  
FTFNVPGSGNTYPKDMEALLPLNMVYISIDKAKKFRNLNREGKQKADKNRARVEENFLKL  
THVQRQEAQSRREEKKRAEKERIMNEEDPEKQRRLEEAALRREQKKLEKKQMKMKQIKV  
KAM

>sp|Q9H2F9|CCD68\_HUMAN Coiled-coil domain-containing protein 68 OS=Homo sapiens GN=CCDC68  
PE=1 SV=1

MTTVTVTTEIPPRDKMEDNSALYESTSAHIIEETEVYVKKIRTTLQKIRTQMFKDEIRHDS  
TNHKLDAKHCGNLQQGSDSEMDPSCCSLDLLMKKIKGKDLQLEMNKENEVLKIKLQASR  
EAGAAALRNAVQRLFENYQTQSEEVRRKKQEDSKQLQVNKLEKEQKLKQHVENLNQVAEK  
LEEKHSQITELNLRMEKEKRTLLERKLSLENKLLQLKSSATYKSCQDLQREISILQ  
EQISHLQFVIHSQHQLRSVIQEMEGLKNNLKEQDKRIENLREKVNILEAQNKELKTQVA  
LSSETPRTKVSKAVSTSELKTEGVSPYMLIRLRK

>sp|Q6ZRK6|CCD73\_HUMAN Coiled-coil domain-containing protein 73 OS=Homo sapiens GN=CCDC73  
PE=2 SV=2

MESNFNTESSTFTLQSSSETLFSIQLLDFKTSLEALEELRMRREAEIHVEEQIGKIIV  
ETQELKWQKETLQNQKETLAEQHKEMAVFKKQLQMKMCALEEEKGYQLATEIKEKEIE  
GLKETLKALQVSKYSLQKKVSEMEQKVQLHLLAKEDYHKQLSEIEKYATITGQFGLVKE  
NHEKLEQNVREAIQSNKRLSALNKKQAEICSLKKELKKAASDLIKSVTCQYKMGEEI  
NLTIKEQKFQELQERLNMELELNEKINEEITHIQEEKQDIIISFQHMQLLRQQIQANTE  
MEAEKVLKENNQTLERDNLQREKVKENEEKFLNLQNEHEKALGTWKRHAEELNGEINK  
IKNELSSLKETHIKLQEHYNKLCNQKTFEEDKKFQNVPEVNNENSEMSTESSENTIIQKY  
NTEQEIREENMENFCSLTEYREKEEKKEGSFIEEIIIDDLQLFEKSFKNEIDTVVSQDEN  
QSEISLSKTLSLDKEVISQGQTSNVTNDRKSVTTEIKDKICLEKDNGCTEFKSPNNHFVV  
LDTAIETEKIHLETRGLDVHHTDVNLEVENNKTSFNSILNETAHNTYHNNNKDVSENEP  
FKQFRLLPGTREHALEKEITNSDQTKADLDSSLDIKKNPVPCQKYSLRNSSNVMLDDKQC

KIKQIQLLTKKSECSILLSKQTSDFLQVCNDTLEKSELTVPCDIVIDHHVSYAAFSANSK  
LLLKNSDKNVHSMMLVKPNSSPGGKTMCKNMSDMQNSQFNNCLGYLENTNVNISHLHLN  
NENSHASQAKDVKTAVHMKCTCTETEFSENKKNQIDENQVTEATKNDLFLFVSINERQHTLL  
NNTKTESLNDIVSGKMFSEGLEESHFSHIEPSGDLVNRSGRSTFDLSTSDKKTEKTPV  
YMNFSDPGPWSKVNHIESQTASSSTPCISLLLKERPLDPSENKKIISMALCKNIGVDDVG  
KDIGPDTSINRVADTLNNWSIHPDPKGEPSEEKNAMAKTFYDSSFPTHEVKTPLISTP  
LQSHLQAIKTTKNTSGDDDQSLITNQLNKSENLLSLENDNQPKKRKAETLEKNNRLK

>sp|Q9NR09|BIRC6\_HUMAN Baculoviral IAP repeat-containing protein 6 OS=Homo sapiens  
GN=BIRC6 PE=1 SV=2

MVTGGGAAPPGTVTEPLPSVIVLSAGRKMAAAAAAASGPGCSSAAGAGAAGVSEWLVRD  
GCMHCDADGLHLSYHPALNAILAVTSRGTIKVIDGTSGATLQASALSAKPGGQVKCQYI  
SAVDKIVFVDDYAVGCRKDLNGILLDLTALQTPVSKQDDVVQLELPVTEAQQLLSACLEK  
VDISSTEGYDLFITQLKDGLKNTSHETAANHKVAKWATVTFHLPHHVLKSIASAIYNELK  
KINQNVAAALPVASSVMDRLSYLLPSARPELVGPGRSVDRSLMYSEANRRETFTSWPHVG  
YRWAQPDPMAGFYHQPASSGDDRAMCFTCSVCLVCWEPTDEPWSEHERHSPNCPFVKG  
EHTQNVPLSVTLATSPAQFPCTDGTDRISCFSGSGCPHFLAAATKRGKICIWVSVKLMKV  
HLKFEINAYDPAIVQQLILSGDPSSGVDSRRPTLAWLEDSSSCSDIPKLEGDSDDLLEDS  
DSEHSRSDSVTGHTSQKEAMEVSLDITALSILQQPEKLQWEIVANVLEDTVKDLEELGA  
NPCLTNSKSEKTKEKHQEQHNIPFPCLLAGGLTYKSPATSPISSNSHRSLDGLSRTQGE  
SISEQGSTDNESCENSELNPLVRRTLPLVLLLYSIKESDEKAGKIFSQMNNIMSKSLHDD  
GFTVPQIIEMELDSQEQLLLQDPPVTYIQQFADAAANLTSPDSEKWNVSFVKPGTLVQCL  
RLPKFAEEENLCIDSITPCADGIHLLVGLRTPVESLSAINQVEALNNLNKLSALCNRR  
KGELESNLAVVNGANISVIQHESPADVQTPLIIQPEQRNVSGGYLVLYKMNYATRIVTLE  
EPIKIQHIKDPQDTITSLILLPPDILDNREDDCEEPIEDMQLTSKNGFEREKTSDISTL  
GHLVITTGGGYVKILDLSNFEILAKVEPPKKEGTEEQDTFVSVIYCSGTDRLCACTKGGE  
LHFLQIGGTCDDIDEADILVDGSLSKGIEPSSEGSKPLSNPSSPGISGVDLLVDQPFTLE  
ILTSLVELTRFETLTPRFSATVPPCWVEVQQEQQRHPQHLHQHHGDAAQHTRTWKLQ  
TDSNSWDEHVFEVLPAKCMVGHVDFKFLVLSNITNIPQIQVTLLKNKAPGLGKVNALNI  
EVEQNGKPSLVDLNEEMQHMDVEESQCLRLCPFLEDHKEDILCGPVWLASGLDLSGHAGM  
LTLTSPKLVKGMAGGKYRSFLIHVKAVNERGTEEICNGGMRPVVRLPSLKHQSNKGYSLA  
SLLAKVAAGKEKSSNVKNENTSGTRKSENLRGCDLLQEVSVTIRRFKTSISKERVQRCA  
MLQFSEFHEKLVNTLCRKTDGQITEHAQSLVDTLCWLAGVHSNGPGSSKEGNENLLSK  
TRKFLSDIVRVCFEAGRSIAHKCARFLALCISNGKCDPCQPAFGPVLLKALLDNMSFLP  
AATTGGSVYWFVLLNRYKDEDLAGCSTACASLLTAVSRQLQDRLTPMEALLQTRYGLYS  
SPFPDPLVFDLEMSGSSCKNVYNSSIGVQSDEIDLSDVLSGNGKVSSCTAAEGSFTSLTGL  
LEVEPLHFTCVSTSDGTIERDDAMSSFGVTPAVGGLSSGTVGEASTALSSAAQVALQSL  
SHAMASAEQQLQVLQEQQLKLQKQKAKLEAKLHQTAAAAAASAVGPVHNSVPSNP  
VAAPGFFIHPSDVIPPTPKTTPFMTPLTPPNEAVSVVINAELAQLFPGSVIDPPAVNL  
AAHNKNSNKRMPNPLGSGLALAIASHASHFLQPPPHQSI IERMHSGARRFVTLDFGRPIL  
LTDVLIPTCGDLASLSIDIWTLGEEVDGRRLLVATDISTHSLILHDLIPPPVCRFMKITV  
IGRYGSTNARAKIPLGFYYGHTYILPWESELKLMHDPLKGEGESANQPEIDQHLAMMVAL  
QEDIQCRYNLACHRETLTLLQSIDLPLNSANNAQYFLRKPDKAVEEDSRVFSAYQDCIQL  
QLQLNLAHNAVQRLKVALGASRKMLSETSNPEDLIQTSSTEQLRTIIRYLLDTLLSLLHA  
SNGHSVPAVLQSTFHAQACEELFKHLCISGTPKIRLHTGLLLVLQCGGERWWGQFLSNVL

QELYNSEQLLIFPQDRVFMLLSCIGQRSLSNSGVLESLLNLLDNLLSPLQPQLPMHRRTE  
GVLDIPMISWVVMLVSRLLDYVATVEDEAAAAKKPLNGNQWSFINNNLHTQSLNRSSKGS  
SSLDRLYSRKIRKQLVHHKQQLNLLKAKQKALVEQMEKEKIQSNKGSSYKLLVEQAKLKQ  
ATSKHFKDLIRLRRTAEWSRSNLDTEVTTAKESPEIEPLPFTLAHERCISVVQKLVLFLL  
SMDFTCHADLLL FVCKVLARIANATRPTIHLCEIVNEPQLERLLLLLVGTD FNRGDISWG  
GAWAQYSLTCMLQDILAGELLAPVAAEAMEEGTVGDDVGATAGSDDSLQQSSVQLLETI  
DEPLTHDITGAPPLSSLEKDKEIDLELLQDLMEVDIDPLDIDLEKDPLAAKVFKPISSTW  
YDYWGADYGTYNPNPYIGGLGIPVAKPPANTEKNGSQTVSVVSQALDARLEVGLEQQAE  
LMLKMMSTLEADSILQALTNTSPTLSQSPTGTDDSLGGLQAAANTSQLI IQLSSVPMLN  
VCFNKLFSMLQVHHVQLESLLQLWLTLNLSSSTGNKENGADIFLYNANRIPVISLNQAS  
ITSFLTVALWYPNTLLRTWCLVLHSLTLMTNMQLNSGSSSAIGTQESTAHLLVSDPNLIH  
VLVKFLSGTSPHGTNQHSPPQVGTATQAMQEFLTRLQVHLSSTCPQIFSEFLKL IHILS  
TERGAFQTGGPLDAQVKLLEFTLEQNFEVVSVSTISAVIESVTFLVHHYITCSDKVMSR  
SGSDSSVGARACFGGLFANLIRPGDAKAVCGEMTRDQLMFDLLKLVNILVQLPLSGNREY  
SARVSVTNTTDSVSDEEKVSGGKDGNGSSTSVQGSPAYVADLVLANQQIMSQILSALGL  
CNSSAMAMIIGASGLHLTKHENFHGGLDAISVGDLFTILTTL SKKASTVHMMLQPIITY  
MACGYMGRQGLATCQLSEPLLWFILRVLDTSALKAFHDMGGVQLICNNMVTSTRAIVN  
TARSMVSTIMKFLDSGPNKAVDSTLKTRILASEPDNAEGIHNFAPLGTITSSSPTAQPAE  
VLLQATPPHRRARSAAWSYIFLPEEAWCDLTIHLPAAVLLKEIHIQPHLASLATCPSSVS  
VEVSADGVNMLPLSTPVVTSGLTYIKIQLVKAEVASAVCLRLHRPRDASTLGLS QIKLLG  
LTAFGTTSSATVNNPFLPSEDQVSKTSIGWLRLLHHCLTHISDLEGMMASAAAPTANLLQ  
TCAALLMSPYCGMHSPNIEVVLVKIGLQSTRIGLKLIDILLRNCAASGSDPTDLNSPLL F  
GRLNGLSSDSTIDILYQLGTTQDPGTDRIQALLKWVSDSARVAAMKRSGRMNYMCPNSS  
TVEYGLLMPPSPSHLHCVAAILWHSYELLVEYDLPALLDQELFELLFNWSMSLPCNMVLKK  
AVDSLLCSMCHVHPNYFSLLMGWMI TPPP VQCHHRLSMTDDSKKQDLSSSLTDDSKNAQ  
APLALTESHLATLASSSQSPEAIKQLLD SGLPSLLVRS LASFCFSHISSESIAQSIDIS  
QDKLRRHHVPQQCNKMPITADLVAPILRFLTEVGNSHIMKDWLGGSEVNPLWTALLFLLC  
HSGSTSGSHNLGAQQTSARSASLSSAATTGLTTQQR TAIENATVAFFLQCISCHPNNQKL  
MAQVLC ELFQTS PQRGNLPTSGNISGFIRRLFLQLMEDEKVTMFLQSPCPLYKGRINAT  
SHVIQHMPY GAGHKFRTLHLPVSTT LSDVLD RVS DTPSITAKLISEQKDDKEKKNHEEKE  
KVKAENGFQDNYSVVVASGLKSQSKRAVSATPPRPPSRGR TIPDKIGSTSGAEAAANKII  
TVPVFHLFHKLLAGQPLPAEMTLAQLLTLLYDRKLPQGYRSIDLTVKLSRVITDPSLSK  
TDSYKRLHPEKDHDLLASCPED EALTPGDECMDGILDESLET CPIQSPLQVFAGMGGL  
ALIAERLPMLYPEVIQQVSAPVVTSTTQEKPKDS DQFEWVTIEQSGELVYEAPETVAAEP  
PPIKSAVQTMSPIPAHS LAAGFLRLPGYAEVLLKERKHAQC LLRLVLGVTD DGE GSHI  
LQSPSANVLPTLPFHVLRSLFSTTPLTTDDGVLLRRMALEIGALHLILVCLSALSHHSPR  
VPNSSVNQTEPQVSSSHNPTSTEEQQLYWAKGTGFGTGSTASGWDVEQALTKQRLEEEHV  
TCLLQVLASYINPVSSAVNGEAQSSHETRGQNSNALPSVLELLS QSCLIPAMSSYL RND  
SVLDMARHVPLYRALLELLRAIASCAAMVPLLLPLSTENG EEEEEQSECQTSVG TLLAKM  
KTCVDTYTNRLRSKRENVKTGVKPDASDQEPEGLTLLVPDIQKTAEIVYAATTSLRQANQ  
EKKLGEYSKKAAMKPKPLSVLKSLEEKYVAVMKKLQFDTFEMVSEDEDGKLGFKVNYHYM  
SQVKNANDANSAARARRLAQEA VTLTSLPLSSSSSVFVRCDEERLDIMKVLITGPADTP  
YANGCFEFDVYFPQDYPSSPPLVNLETTGGHSVRFPNPLYNDGKVCLSILNTWHGRPEEK  
WNPQTSSFLQVLVSVQSLILVAEYPFNEPGYERSRGTPSGTQSSREYDGNIRQATVKWAM



LEQIRNPSPCFKEVIHKHFYLKRVEIMAQCEEWIADIQQYSSDKRVGRMTSHHAAALKRH  
TAQLREELLKPCPEGLDPTDDAPEVCRAATTGAEETLMHDQVKPSSSKELPSDFQL

>sp|Q96CA5|BIRC7\_HUMAN Baculoviral IAP repeat-containing protein 7 OS=Homo sapiens  
GN=BIRC7 PE=1 SV=2

MGPKDSAKCLHRGPQPSHWAAGDGPTQERCGPSRLGSPVLGLDTCRAWDHVDGQILGQLR  
PLTEEEEEEGAGATLSRGPAPFGMGSEELRLASFYDWPLTAEVPELLAAAGFFHTGHQD  
KVRCCFCYGGQLSWKRGDDPWTEHAKWFPSCQFLLRSKGRDFVHSVQETHSQQLLGSWDPW  
EEPEDAAPVAPSPASGYPELTPRREVQSESAQEPGGVSPAEAQRWWVLEPPGARDVE  
AQLRRLQEERTCKVCLDRAVSIVFVPCGHLVCAECAPGLQLCPICRAPVRSRVRTFLS

>sp|A8MY62|BLML\_HUMAN Putative beta-lactamase-like 1 OS=Homo sapiens GN=LACTBL1 PE=2 SV=2

MCPRHPEPVPLAHLPLVKEALEKVDQILRQAMSAPGVAAMSAVVIHNDTVLWTGNFGKK  
NGSDPASGAPNEYMYRISSISKIFPVMLYRLWEEGIVASLDDPLERYASTFTINNPLG  
LASAEQQGLILRRMASQLSGLPRRLRSTSLWKGSTQEALNLLKDDVLVDPGTRCHYST  
LAFSLLAHVLAHAHTAQGDYQRWVSENVLEPLGMADTGFDLTPDVRARLAAGFYGSGRPAP  
LYDLGWYRPSGQMYSTAADLAKLAVALLGGGPRLLRPDAAKTLLAPLLACPGAYFANET  
GTPWEFHAQRGYRVVRKDGDLGYAATFSLVPPLRLGLVLLLAGPRPPGPDVARAYDEL  
LPALERALREAEPGAPPPTAHPFAGYFTFANLTFYEV RAGPAGELRLRQFGPRVEALVP  
PAFRTLALRHLHGRVFLHVAHEFPCALPLGDAWLSLEAQHGQLVNFYPLDHHGLSPGFD  
VPGLNTRYRLRLRGKPVFKT

>sp|P54132|BLM\_HUMAN Bloom syndrome protein OS=Homo sapiens GN=BLM PE=1 SV=1

MAAVPQNNLQEQLERHSARTLNNKLSLSKPKFSGFTFKKKTSSDNNVSVTNVSAKTPVL  
RNKDVNVTEDFSFSEPLPNTTNQQRVKDFFKNAPAGQETQRGGSKSLLPDFLQTPKEVVC  
TTQNTPTVKKSRDTALKKLEFSSPSDSLSTINDWDDMDDFDTSKTSFVTPPQSHFVRV  
STAQSKKKGKRNFFKAQLYTTNTVKTDLPPPSSESEQIDLTEEKDDSEWLSSDVICIDD  
GP IAEVHINEDAQESDSLKTHLEDERDNSEKKKNLEEAELHSTEKVPCIEFDDDDYDTDF  
VPPSPEEII SASSSSSKCLSTLKDLDTSRKEVDLSTSKDLLSKPEKMSMQELNPETSTD  
CDARQISLQQQLIHVMEHICKLIDTIPDDKLKLLDCGNELLQQRNIRRKLLTEVDFNKSD  
ASLLGSLWRYRPDSL DGPMEGDSCTGNSMKELNFSHLPNSVSPGDCLLTTTLGKTGFS  
ATRKNLFRPLFNTHLQKSFVSSNWAETPRLGKKNESSYFPGNVLTSTAVKDQNKHTASI  
NDLERETQPSYDIDNFDIDDFDDDDWEDIMHNLAASKSSTAAYQPIKEGRPIKSVSERL  
SSAKTDCLPVSSSTAQNINFSESIQNYTDKSAQNLASRNLKHERFQSLSFPHTKEMMKIFH  
KKFGLHNFRTNQLEA INAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTVVISPLRSLI  
VDQVQKLTSLDIPATYLTGDKTDSEATNIYLQLSKKDP I IKLLYVTPEKICASNRLISTL  
ENLYERKLLARFVIDEAHCVSQWGHDFRQDYKRMNMLRQKFPSVPVMALTATANPRVQKD  
ILTQLKILRPQVFSMSFNHNLKYYVL P K K P K K V A F D C L E W I R K H H P Y D S G I I Y C L S R R E  
CDTMADTLQRDGLAALAYHAGLSDSARDEVQQKWINQDGCQVICATIAFGMGIDKPDVRF  
VIHASLPKSVEGYQESGRAGR DGEI SHCLLFYTYHDVTRLKRLIMMEKDGNHHTRETHF  
NNLYSMVHYCENITECRRIQLLAYFGENGFPNDFCKKHPDVSCDNCKTKDYKTRDVTDD  
VKSIVRFVQEHSQQGMRN IKHVGPSGRFTMNMMLVDIFLGSKSAKIQSGIFGKGSAYSRIH  
NAERLFKKLILDKILDEDLYINANDQAIAYVMLGNKAQTVLNGNLKVD F M E T E N S S S V K K  
QKALVAKVSQREEMVKKCLGELTEVCKSLGKVFGVHYFNIFNTVTLKKAESLSSDPEVL  
LQIDGVTEDEKLEKYGAEIVSVLQKYSEWTSPAEDSSPGISLSSSRGPGRSAAEELDEEIP  
VSSHVFASKTRNERKRRKKMPASQSKRRKTASSGSKAKGGSATCRKISSKTKSSSIIGSS  
SASHTSQATSGANSKLGIMAPPKPINRPFLKPSYAFS

>sp|Q5H9B9|BM2KL\_HUMAN Putative BMP-2-inducible kinase-like protein OS=Homo sapiens  
GN=BMP2KL PE=5 SV=2

MIAPSPKSSEEEGQKDEEVLQGEQGFNDNDTEPENLGHRLPMDSEDEEEEEKRSSDSD  
YEQAkakYSDMSPVYRDKSGSGPTQDINTILLTSAQLSSDVGVETPKQEFDFGAVPFFA  
VCAQQPQQEKNEKSLPQHRFPATGLQQEEFDVFTKAPFSKKVNVQECHAVGPETHPKSID  
IFDFTPFQPF LTSTSKSESNE DLFG LVPFEEIMGSQQQKVQKRS LQKLSSRQRRTKQDMS  
KSNGKRHHGTPTS KKKTLKPT YRTPERARRHKV GRRVSQTSNEFVTISDSKENIGAAVT  
DGNDRGNVLQLEESLLDPFGAKPFHPPDL SWHPLHQGLN DIRADHNTVLPKQPRQNSLHG  
SFHSADVLTMDDFGAMPFTEL VVQSITLQQSQQSQPVELDPFGAAPFPSKQ

>sp|Q96LC9|BMF\_HUMAN Bcl-2-modifying factor OS=Homo sapiens GN=BMF PE=1 SV=1

MEPSQCVEELEDDVFQPEDGEPVTQPGSLLSADLFAQSLLDCPLSRLQLFPLTHCCGPGL  
RPTSQEDKATQTLSPASPSQGVMLPCGVTEEPQRLFYGNAGYRLPLPASFPVLPIGEQP  
PEGQWQHQA EVQIARKLQCIADQFHRLHVQQHQQNQNRVWWQILLFLHNLALNGEENRNG  
AGPR

>sp|P35226|BMI1\_HUMAN Polycomb complex protein BMI-1 OS=Homo sapiens GN=BMI1 PE=1 SV=2

MHRTTRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETSKYCPICDVQV  
HKTRPLLNI RSDKTLQDIVYKLV PGLFKNEMKRRRDFYAAHPSADAANGSNEDRGEVADE  
DKRIITDDEIISLSIEFFDQNR LDRKVNKDKEKSKEEVNDKRYLRCPAAMTMHLRKFLR  
SKMDIPNTFQIDVMYEEELPKDYITLMDIAYIYTWRNGPLPLKYRVRPTCKRMKISHQR  
DGLTNAGELES DSGSDKANSPAGGIPSTSSCLPSPSTPVQSPHPQFPHISS TMNGTSNSP  
SGNHQSSFANRPRKSSVNGSSATSSG

>sp|P12643|BMP2\_HUMAN Bone morphogenetic protein 2 OS=Homo sapiens GN=BMP2 PE=1 SV=1

MVAGTRCLLALLLPQVLLGGAAGLVPELGRRKFAAASSGRPSSQPSDEVLSEFELRLLSM  
FGLKQRPTPSRD AVPPYMLDLYRRHSGQPGSPAPDHRLEAASRANTVRSFHHEESLEE  
LPETSGKTTRRFFFNLS SIPT EEFITSAELQVFREQMQDALGNSSFHHRINIYEIIKPA  
TANSKFPVTRLLDTRLVNQNASRWESFDVTPAVMRWTAQGHANHG FVVEVAHLEEKQGV  
SRHVRISRSLHQDEHSWSQIRPLLVTFGHDGKGHPLHKREKRQAKHKQRKRLKSSCKRHP  
LYVDFSDVGWNDWIVAPPGYHAFYCHGECPPFLADHLNSTNHAIVQTLVNSVNSKIPKAC  
CVPTELSAISMLYLDENEKVVLKQYQDMVVEGCGCR

>sp|Q8WZ55|BSND\_HUMAN Barttin OS=Homo sapiens GN=BSND PE=1 SV=1

MADEKTFRIGFIVLGLFLLALGTFLMSHDPQVYGTIFYAMGSVMVIGGIWSMCQCYPKI  
TFVPADSDFQGILSPKAMGLENGLA AEMKSPSPQPPYVRLWEEAAYDQSLPDFSHIQMK  
VMSYSEDHRSLLAPEMGQPKLGTSDGEGGPGDVQAWMEAAVVIHKSDESEGERRLTQS  
WPGPLACPGPAPLASFQDDLMDSDSEGSSPNASPHDREEACSPQQEPQGCRCPDRFQD  
FALIDAPTLEDEPQEGQWEIALPNNWQRYPRTKVEEKEASDTGGEPEKEEEDLYYGLP  
DGAGDLLPDKELGFEPDTQG

>sp|Q5W0U4|BSPRY\_HUMAN B box and SPRY domain-containing protein OS=Homo sapiens GN=BSPRY  
PE=2 SV=1

MSAEGAEPGPGSGSGPGPLCPEHGQALSWFCGSERRPVCAACAGLGGRCRGHRIRRAE  
ERAELRNKIVDQ CERLQLQSAAITKYVADVLP GKNQRAVSMASAARELVIQRLSLVRSL  
CESEEQRLLQVHGEEERAHQSILTQRVHWAELQKLD TIR TGLV GMLTHLDDLQLIQKE  
QEIFERTEEAEGILDPQESEMLNFNEKCTRSPLLTQLWATAVLGSLSGTEDIRIDERTVS  
PFLQLSDDRKTLTFSTKSKACADGPERFDHWPNALAATSFQNGLHAWMVNVQNSCAYKV  
GVASGHLPRKGS GSDCRLGHNAFSWVFSRYDQEF RFSHNGQHEPLGLLRGPAQLGVVLDL

QVQELLFYEPASGTVLCAHHVSFPGPLFPVFAVADQTISIVR

>sp|Q96KE9|BTBD6\_HUMAN BTB/POZ domain-containing protein 6 OS=Homo sapiens GN=BTBD6 PE=1 SV=3

MAAELYAPASAAAADLANSNAGAAVGRKAGPRSPPSAPAPAPPPAPAPPTLGNNHQESP  
GWRCCRPTLRERNALMFNNELMADVHFVVGPPGATRTVPAHKYVLAVGSSVFYAMFYGDL  
AEVKSEIHIPDVEPAAFLILLKYMYSDEIDLEADTVLATLYAAKKYIVPALAKACVNFLE  
TSLEAKNACVLLSQSRLFEEPELTQRCWEVIDAQAEMLRSEGFCEIDRQTLEIIIVTREA  
LNTKEAVVFEAVLNWAEAECKRQGLPITPRNKRHLVGRALYLVRIPTMTLEEFANGAAQS  
DILTLEETHSIFLWYTATNKPRLDFPLTKRKGLAPQRCHRFQSSAYRSNQWRYRGRCDSI  
QFAVDRRVFIAGLGLYGSSSGKAEYSVKIELKRLGVVLAQNLTKFMSDGSNTFPVWFEH  
PVQVEQDTFYTASAVLDGSELSYFGQEGMTEVQCGKVAFFQFQCSSDSTNGTGVQGGQIPE  
LIFYA

>sp|A6NE02|BTBDH\_HUMAN BTB/POZ domain-containing protein 17 OS=Homo sapiens GN=BTBD17 PE=3 SV=1

MPRRGYSKPGSWGSFWAMLTVLGLVTHAAQRADVGGEAAGTSINHSQAVLQRLQELLRQG  
NASDVVLRVQAAGTDEVVRVFHAHRLLLGLHSELFELLSNQSEAVLQEPQDCAAVFDKFI  
RYLYCGELTVLLTQAIPHLRLATKYGVSSSLQRGVADYMRAGLAGGAGPAVGWYHYAVGTG  
DEALRESCLQFLAWNLSAVAASTEFGAVSPELLWQLLQRSDDLVLQDELELFHALEAWLGR  
ARPPPAVAERALRAIRYPMIPPAQLFQLQARSAALARHGPAVADLLLQAYQFHAASPLHY  
AKFFDVNGSAFLPRNYLAPAWGAPVWINNPARDRSTSFQTQLGPSGHDAGRRVTWNVLF  
SPRWLPVSLRPVYADAAGTALPAARPEDGRPRLVVTASSGGDAAGVSFQKTVLVGARQQ  
GRLLVRHAYSFHQSSEEAGDFLAHADLQRRNSEYLVENALHLHLIVKPVYHTLIRTPK

>sp|P20290|BTF3\_HUMAN Transcription factor BTF3 OS=Homo sapiens GN=BTF3 PE=1 SV=1

MRRTGAPAQADSRGRGRARGGCPGGEATLSQPPPRGGTRGQEPQMKETIMNQEKLAKLQA  
QVRIGGKGTARRKKKVVHRTATADDKKLQFSLKKLGVNNISGIEEVNMFNTNQTIVHFNN  
PKVQASLAANTFTITGHAETKQLTEMLPSILNQLGADSLTSLRRLAEALPKQSVDGKAPL  
ATGEDDDDEVDPDLVENFDEASKNEAN

>sp|Q06187|BTK\_HUMAN Tyrosine-protein kinase BTK OS=Homo sapiens GN=BTK PE=1 SV=3

MAAVILESIFLKRSQKKKTSPLNFKKRLFLTTHKLSYIEYDFERGRRGSKKGSIDVEK  
ITCVETVVPEKNPPPERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTTEL  
RKRWIHLKKNVIRYNSDLVQKYHPCFWIDGQYLCCSQTAKNAMGCQILENRNGSLKPGSS  
HRKTKKPLPPTPEEDQILKKPLPEPAAAPVSTSELKKVVALYDYPMNANDLQLRKGDE  
YFILEESNLPWWARDKNGQEGYIPSNYVTEAEDSIEMYEWYSKHMTRSQAELLKQEGK  
EGGFIVRDSSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKHLFSTIPELIN  
YHQHNSAGLISRLKYPVSQQNKNAPOSTAGLGYGSWEIDPKDLTFLKELGTGQFGVVKYGK  
WRGQYDVAIKMIEGSMSEDEFIEEAKVMMNLSHEKLVQLYGVCTKQRPIFIITEYMANG  
CLLNYLREMRHRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAARNCLVNDQGQVVKVSDF  
GLSRYLDDEYTSSVGSKFVVRWSPPEVLMYSKFSSKSDIWAFGVLMWEIYSLGKMPYER  
FTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDEES

>sp|Q6UXG8|BTNL9\_HUMAN Butyrophilin-like protein 9 OS=Homo sapiens GN=BTNL9 PE=2 SV=1

MVDLSVSPDSLKPVSILTSSLVFLMHLLLLQPGEPSSEVKVLGPEYPILALVGEEVEFPCH  
LWPQLDAQQMEIRWFRSQTFNVVHLYQEQQELPGRQMPAFRNRTKLVKDDIAYGSVVLQL  
HSIIPSDKGTYGCRFHSNDFSSEALWELEVAGLGSDPHLSLEGFKEGGIQLRLRSSGWYP  
KPKVQWRDHQGGCLPPEFEAIWDAQDLFSLETSVVVRAGALSNVSVSIQNLLSQKKEL

VVQIADVFPVASAWKSAFVATLPLLLVLAALALGVLRKQRRSREKLKQAEKRQEKLTA  
ELEKLQTELDWRAEGQAEWRAAQKYAVDVTLDPASAHPSLEVSEDGKSVSSRGAPPGA  
PGHPQRFSEQTCALSLERFSAGRHYWEVHVGRRSRWFLGACLAAPRAGPARLSPAAGYW  
VLGLWNGCEYFVLAPHRVALTLRVPPRLGVFLDYEAGELSFFNVSDGSHIFTHDTFSG  
ALCAYFRPRAHDGGEHPDPLTICPLPVRGTGVPEENDSDTWLQPYEPADPALDWW

>sp|P41223|BUD31\_HUMAN Protein BUD31 homolog OS=Homo sapiens GN=BUD31 PE=1 SV=2  
MPKVKRSRKAPPDGWELIEPTLDELQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYI  
FDLFYKRKAISRELYEYCIKEGYADKNLIAKWKQGYENLCCLRCIQTRDTNFGTNCICR  
VPKSKLEVGRIEEECHCGCRGCSG

>sp|Q9UBR1|BUP1\_HUMAN Beta-ureidopropionase OS=Homo sapiens GN=UPB1 PE=1 SV=1  
MAGAEWKSLEECLKHLPLPDLQEVKRVLYGKELRKLDLPREAFEAASREDFELQGYAFE  
AAEEQLRRPRIVHVLVQNRIPLPANAPVAEQVSALHRRIKAIVEVAAMCGVNIICFQEA  
WTMPFAFCTREKLPTWTEFAESAEDGPTTRFCQKLAKNHDMVVVSPILERDSEHGDVLWNT  
AVVISNSGAVLGKTRKNHPRVGFNESTYYMEGNLGHVPVFQTQFGRIAVNICYGRHHPL  
NWLMSINGAEIIFNPSATIGALSESLWPIEARNAAIANHCFTCAINRVGTEHFPNEFTS  
GDGKKAHQDFGYFYGSSYVAAPDSSRTPGLSRSRDGLLVAKLDLNLCCQVNDVWNFKMTG  
RYEMYARELAEAVKSNYSPTIVKE

>sp|P27824|CALX\_HUMAN Calnexin OS=Homo sapiens GN=CANX PE=1 SV=2  
MEGWLLCMLLVLGTAIVEAHDGHDDVDIEDDLDDVIEEVEDSKPDTTAPPSSPKVTY  
KAPVPTGEVYFADSFDRGTLGWLISKAKKDDTDDEIAKYDGKWEVEEMKESKLPGDKGL  
VLMSRAKHHAISAKLNKPFLLDTKPLIVQYEVNFQNGIECGGAYVKLLSKTPELNLDQFH  
DKTPYTIMGPDKCGEDYKLHFIHRHKNPKGTIYEEKHAKRPDADLKYFTDKKTHLYTL  
ILNPDNSFEILVDQSVVNSGNLLNDMTTPVNPNSREIEDPEDRKPEDWDERPKIPDPEAVK  
PDDWDEDAPAKIPDEEATKPEGWLDDEPEYVPDPDAEKPEDWDEDMDGEWEAPQIANPRC  
ESAPGCGVWQRPVIDNPYKGGKWKPPMIDNPSYQGIWKPRKIPNPDFFEDLEPFRMTPFS  
AIGLELWSMTSDIFFDNFIICADRRIVDDWANDGWGLKKAADGAAEPGVVGQMIEAAEER  
PWLWVVYILTVALPVFLVILFCCSGKKQTSGMEYKKTAPQPDVKEEEEEEEEEKDKGDE  
EEEGEEKLEEKQKSDAEEDGGTVSQEEEDRKPKAEDEILNRSPNRKPRRE

>sp|Q9NYX4|CALY\_HUMAN Neuron-specific vesicular protein calcyon OS=Homo sapiens GN=CALY  
PE=1 SV=1  
MVKLGCFSFGKPGKDPGDQDGAAMDSVPLISPLDISQLQPPLPDQVVIKTQTEYQLSSPD  
QQNFPDLEGQRLNCSHPPEEGRRPLPTARMIAFAMALLGCVLIMYKAIWYDQFTCPDGFLLR  
HKICTPLTLEMYYTEMDPERHRSILAAIGAYPLSRKHGTETPAAWGDGYRAAKEERKGPT  
QAGAAAAATEPPGKPSAKAEKEAARKAAGSAAPPPAQ

>sp|Q86VP6|CAND1\_HUMAN Cullin-associated NEDD8-dissociated protein 1 OS=Homo sapiens  
GN=CAND1 PE=1 SV=2  
MASASYHISNLEKMTSSDKDFRFRMATNDLMTLQKDSIKLDDDSERKVVKMILKLEDK  
NGEVQNLAVKCLGPLVSKVKEYQVETIVDTLCTNMLSDKEQLRDISSIGLKTIVIGELPPA  
SSGSALAANVCKKITGRLTSAIAKQEDVSVQLEALDIMADMLSRQGGLLVNFHPSILTCL  
LPQLTSPRLAVRKRTIIALGHLVMSCGNIVFVDLIEHLLSELSKNDSMSTTRTYIQCIAA  
ISRQAGHRIGEYLEKIIPLVVKFCNVDDDELREYCIQAFESFVRRCPKEVYPHVSTIINI  
CLKYLYDPNINYDDEDEDENAMDADGGDDDDQGSDDDEYSDDDMSWKVRRAAKCLDAV  
VSTRHEMLPEFYKTVSPALISRFKEREENVKADVFHAYLSLLKQTRPVQSWLCPDAMEQ  
GETPLTMLQSQVPNIVKALHKQMKESVKTRQCCFNMLTELNVNLPGALTQHIPVLVPGI

IFSLNDKSSSSNLKIDALSCLYVILCNHSPQVFHPHVQALVPPVVACVGDPFYKITSEAL  
LVTQQLVKVIRPLDQSSSFDPATPYIKDLFTCTIKRLKAADIDQEVKERAI SCMGQI ICNL  
GDNLGSDLPNTLQIFLERLKNEITRLTTVKALTLIAGSPLKIDLRPVLGEGVPILASFLR  
KNQRALKLGTLSALDILIKNYSDSLTAAMIDAVLDELPLISESDMHVSQMAISFLTTLA  
KVYPSSLISKISGILNELIGLVRSPLLQGGALSAMLDFFQALVVTGTNNLGMDLLRMLT  
GPVYSQSTALTHKQSYYSIAKCVAALTRACPKEGPAVVGQFIQDVKNRSTDSIRLLALL  
SLGEVGHHDLSGQLELKSIVLEAFSSPSEEVKSAASYALGSISVGNLPEYLPFVLQEIT  
SQPKRQYLLLHSLKEI ISSASVVLKPYVENIWALLLKHCEAAEGTRNVVAECLGKLT  
IDPETLLPRLKGYLISGSSYARSSVVTAVKFTISDHPQPIDPLLKNCIGDFLKTLED PDL  
NVRVALVTFNSAAHNKPSLIRDLLDTVLP HLYNETKVRKELIREVEMGPFKHTVDDGLD  
IRKAAFECMYTLLDSCLDRLDIFEFLNHVEDGLKDHYDIKMLTFLMLVRLSTLCPSAVLQ  
RLDRLVEPLRATCTTKVKANSVKQEFQDELKRSAMRAVAALLTIPEAEKSPLMSEFQS  
QISSNPELAAIFESI QKDSSTNLESMDTS

>sp|075155|CAND2\_HUMAN Cullin-associated NEDD8-dissociated protein 2 OS=Homo sapiens  
GN=CAND2 PE=1 SV=3

MSTAAFHISLLEKMTSSDKDFR FMATSDLMSELQKDSIQ LDEDSERKVVKMLLRLLLEDK  
NGEVQNLAVKCLGPLVVKVKEYQVETIVDTLCTNMRS DKEQLRDIAGIGLKT VLSLPPA  
ATGSGLATNVCRKITGQLTSAIAQ QEDVAVQLEALDILSDMLSRLGVPLGAFHASLLHCL  
LPQLSSPRLAVRKRAVGALGH LAAACSTDLFVELADHLLDRLPGPRVPTSPTAIRTLIQ  
LGSVGRQAGHRLGAHLDR LVP LVEDFCNLDDDELRESC LQAFEAFLRKCPKEMGPHV PNV  
TSLCLQYIKHDPNPNYDSDEDEEQMETEDSEFSEQSEDEYSDDDMSWKVRRAAAK CIA  
ALISSRPDLLPDFHCT LAPVL IRRFKEREENVKADVFTAYIVLLRQTQPPKGWLEAMEEP  
TQTGSNLHMLRGQVPLVVKALQRQLKDRSVRARQGCFSLLTELAGVLPGLAEHMPVLVS  
GIIFSLADRSSSSTIRMDALAFLQGLLGTEPAEAFHPLPILLPPVMACVADS FYKIAAE  
ALVVLQELVRALWPLHRPRMLDPEPYVGEMSAVTLARLRATDL DQEVKERAI SCMGHLVG  
HLGDRLGDDLEPTLLLLLLDRLNEITRLPAIKALTLVAVSPLQLDLQPI LAEALHILASF  
LRKNQRALRLATLAALDALAQSGLSLPPSAVQAVLAELPALVNESDMHVAQLAVDFLAT  
VTQAQPASLVEVSGPVLSELLRLRSPLLPAGVAAAEGFLQALVGTRPPCVDYAKLISL  
LTAPVYEQA VDGPGPLHKQVFHSLARCVAALSAACQEAASRLVCDARSPHSSTGVK  
VLAFLSLAEVGQVAGPGHQRELKAVLLEALGSPSEDVRAAASYALGRVGAGSLPDFLPFL  
LEQIEAEPRRQYLLLHSLREALGAAQPSLSLKPYAEDIWALLFQRCEGAEETR GVVAECI  
GKLVLVNP SFLLPRLRKQLAAGRPHTRSTVITAVKFLISDQPHPIDPLLKSF IGEFMESL  
QDPDLNVRRLATLAFNSAVHNKPSLVRD LDDILPLLYQETKIRRD LIREVEMGPFKHTV  
DDGLDVRKAAFECMYSLLESCLGQLDICEFLNHVEDGLKDHYDIRMLTFIMVARLATLCP  
APVLQRVDRLIEPLRATCTAKVKAGSVKQEFQDELKRSAMRAVAALLTIPEVGKSPIM  
ADFSSQIRSNPELAALFESI QKDSASAPSTD SMELS

>sp|P20160|CAP7\_HUMAN Azurocidin OS=Homo sapiens GN=AZU1 PE=1 SV=3

MTRLTVLALLAGLLASSRAGSSPLLDIVGGRKARPRQFPFLASIQNGRHF CGGALIHAR  
FVMTAASCFQSQNPGVSTVVLGAYDLRRRERQSRQTFSISSMSENGYDPQQNLNDLMLLQ  
LDREANLTSSVTILPLPLQNATVEAGTRCQVAGWGSQRSGGRLSRFPRFVNVTVPEDQC  
RPNNVCTGVLTRGGICNGDGGTPLVCEGLAHGVASFSLGPCGRGPDFFTRVALFRDWID  
GVLNNPGPGPA

>sp|Q86X55|CARM1\_HUMAN Histone-arginine methyltransferase CARM1 OS=Homo sapiens GN=CARM1  
PE=1 SV=3

MAAAAAVGPAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEV  
RAGPDSAGIALYSHEDVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSF  
YNILKTCRGHTLERSVFSERTEESSAVQYFQFYGYLSQQQNMMDYVRTGTYQRAILQNH  
TDFDKIVLDVGGSGILSFFAAQAGARKIYAVEASTMAQHAEVLVKSNNLTDRIVVIPG  
KVEEVSLEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDE  
QLYMEQFTKANFWYQPSFHGVDLSALRGAAVDEYFRQPVVDTFDIRILMAKSVKYTVNFL  
EAKEGDLHRIEIPFKFHLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRC  
LFQSPLFAKAGDTLSGTCLLIANKRQSYDISIVAQVDQTGSKSSNLLDLKNPFFRYTGTT  
PSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIASGSSVGHNNLIPLAN  
TGIVNHTHSRMGSIMSTGIVQGSSGAQGSGGGSTSAHYAVNSQFTMGGPAISMASPMSIP  
TNTMHYGS

>sp|P14091|CATE\_HUMAN Cathepsin E OS=Homo sapiens GN=CTSE PE=1 SV=2

MKTLLLLLLVLELGEAQGSLHRVPLRRHPSLKKKLARSQLEFWKSHNLDMIQFTESC  
SMDQSAKEPLINYLDMEYFGTISIGSPPQNFTVIFDTGSSNLWVPSVYCTSPACKTHSRF  
QPSQSSTYSQPGQSFISIYGTGSLSGIIGADQVSAFATQVEGLTVVGQQFGESVTEPGQT  
FVDAEFDGILGLGYPSLAVGGVTPVFDNMMAQNLVDLPMFSVYMSSNPEGGAGSELIFGG  
YDHSFSGSLNWPVPTKQAYWQIALDNIQVGGTVMFCSEGCQAIVDTGTSLITGPSDKIK  
QLQNAIGAAPVDGEYAVECANLNVMPDVTFTINGVPYTLSPATYLLDFVDGMQFCSSGF  
QGLDIHPPAGPLWILGDVFIQFYSVFDRGNNRVGLAPAVP

>sp|P43235|CATK\_HUMAN Cathepsin K OS=Homo sapiens GN=CTSK PE=1 SV=1

MWGLKVLLPVVSFALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLIWEKNLKYISIH  
NLEASLGVHTYELAMNHLGDMTSEEVVQKMTGLKVPLSHRSNDTLYIPEWEGRAPDSVD  
YRKKGYVTPVKNQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVDCVSENDGCGGG  
YMTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAAKCRGYREIPEGNEKALKRAVA  
RVGPVSVDAIDASLTSFQFYSGVYDESCNSDNLNHAFLAVGYGIQKGNKHIIKNSWGE  
NWGNKGYILMARNKNNACGIANLASFPKM

>sp|Q13166|CATR1\_HUMAN CATR tumorigenic conversion 1 protein OS=Homo sapiens GN=CATR1  
PE=2 SV=1

MVLNEEIPRHLTLQNNDIIPKHILILPAVDSYQKSVNDLRALTFSKFQELKHAHELRLN  
LCVSQSRFLAIMWFGTNTN

>sp|Q9UBR2|CATZ\_HUMAN Cathepsin Z OS=Homo sapiens GN=CTSZ PE=1 SV=1

MARRGPGWRPLLLLVLLAGAAQGLYFRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPA  
DLPKSWDWRNVDGVNYASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSV  
QNVIDCGNAGSCEGGNDLSVWDYAHQHGIPEDETCNNYQAKDQECDFNQCGTCNEFKECH  
AIRNYTLWRVGDYGSLSGREKMAEIYANGPISCGIMATERLANYTGGIYAEYQDTTYIN  
HVVSVAGWGISDGTIEWIVRNSWGEPPWGERGWLRIVTSTYKDGKGARYNLAIEEHCTFGD  
PIV

>sp|Q03135|CAV1\_HUMAN Caveolin-1 OS=Homo sapiens GN=CAV1 PE=1 SV=4

MSGGKYVDSEGLYTVPIREQGNIYKPNKAMADELSEKQVYDAHTKEIDLVNRPKHLN  
DDVVKIDFEDVIAIEPEGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFA  
ILSFLHIWAVVPCIKSFLIEIQCISRVYSIYVHTVCDPLFEAVGKIFSNVRINLQKEI

>sp|Q580R0|CB027\_HUMAN Uncharacterized protein C2orf27 OS=Homo sapiens GN=C2orf27A PE=2  
SV=1

MTVKWKQLSAPASGAIEIRFPVPAVEPVAPGADSPPGTALELEEPEPSCRCPGTAQDQ

PSEELPDFMAPPVEPPASALELKVWLELEVAERGGQHSSSQQLPHCSQSWAQWKLWRQRP  
GFAIWAPLPHWRGTSLIQQSSSPAAGEPAATAAGAVCLPAGGAGEQEKEPVSRGSSRSSC  
SQRPPPPGMEVCPQLGIWAICP

>sp|Q96LS8|CB048\_HUMAN Uncharacterized protein C2orf48 OS=Homo sapiens GN=C2orf48 PE=2  
SV=1

MESRPSGRQHASEGDGDSPTQCAGMRSSGRSDQPYVLKGNPLLLRVRCYSGCASGSGRQ  
LQLSVFQDLNQFSHCRVWRSPALIVKGEPPWCSQQDTQSPFQTGTPLERPCFRMKLSGWE  
LTKNAQRALGSKLQHILSLDSTQACGAGGPTILRPPRAP

>sp|Q2NKX9|CB068\_HUMAN UPF0561 protein C2orf68 OS=Homo sapiens GN=C2orf68 PE=2 SV=1

MEAGPHPRPGHCKPGGRLDNMHGFVHHIRRNQIARDDYDKVKQAAKEKVRRRHTPAPT  
RPRKPDLQVYLPRHRDVSAPRNPDYEESSSSGGSELEPSGHQLFCLEYEADSGEVT  
SVIVYQGDGPGKVEKVSHTPLDPPMREALKLRIQEEIAKRQSQH

>sp|A6NJV1|CB070\_HUMAN UPF0573 protein C2orf70 OS=Homo sapiens GN=C2orf70 PE=3 SV=1

MASRSAGTLLTEFNAAVPPGLMPGYQGHVPTVAFSFGAPYGTTLKYFQDHRNRAMEKS  
HTPFSGGHHFTIFSTNPNLLMERASTRDRWLHKPSYTRFNLDShRSTELTNFYQMVQQ  
HRKYYQDKTGTVPVPYFAMPVREPERYPLPTVLPPLCPKKKWHLLRLAPENLKYQTFP  
SGKRVSPQERKKRDCYFEFRA

>sp|Q8N5S3|CB073\_HUMAN Uncharacterized protein C2orf73 OS=Homo sapiens GN=C2orf73 PE=2  
SV=3

MEEKEDKHQHKIEDAAITYVSENEEIKHEEKPGKSIHHSKSHVGRGRIYYAKFINTNAR  
TYNEPPFYIDPKKGEIQGDWWSHGKALEPVFLPPYDSKSTQRSDFQKPSCLVLPVKHS  
KMQKPSGIVPLASPGTSAELQNNFIEYISFIHQYDARKTPNEPLQGKRHGAFVQREIKP  
GSRPTVPKGAEVLLNTPGSRSSSEQSKKTEKGNSAESRMISPLGCQNSQELLEPKTHLSE  
TDVRQAAKACPSTPESREKTSATQTTVGDALFTRHKPLNPPIKKSE

>sp|A6NCI8|CB078\_HUMAN Uncharacterized protein C2orf78 OS=Homo sapiens GN=C2orf78 PE=2  
SV=3

MHWLASATQTSASIVSSSLLSAVDVSSSLTMSEYFQNTSLPGTANSRQFSLPVVSNA AFL  
TGSISNFSRASAPAISSAWLQPSASGTSFQPLMGSAIYLYQHSSTMLSGVTGQSHICTSA  
ASYPGVFEWDSTASTVKSSSLRDFTVTVIDQNTAVSSMSMTAQYYKTSNTMTMPLYPS  
LSASLVQGTLTQIPNQGHNLSPCQIGSQVYYNQGTLPQLSCLQSYGSVSYTGYRAS  
AHQPEMVMVLKEVQPTNVLPPVSTSGMYYSVSSQPITETSVQVMETSLGMDTSLGLQSPS  
QTFCLPQTPEFSKSFSSRNTQTLESNPSPELGDISITPVQSPTNLLTSPAPSQEKNE  
NLDEIKTNLSKPLDVHQILIGNQDPPLLPVEIPDIHPLLACIDPLGQEEQPGENANLRN  
KSLSLEDQGIFENGIESSDLADITTWVEDTYLPPIFSSLQDLDPESPSAKKAKDTS  
KVNQVQEKSCVIKGHSDQVRKNKHKASEPIQGAPKAKIQPNPECLLEREVVGSATVSN  
SASVNAKAKHSSNPKHAASSRISKTKSHGQEKTKGNRKNSSKKSEESKQSGKKVKVEEKQ  
TIPNMKRKKNQPELSQKTLKPRSSSLGMHMLSVQVFHALGKKIDMKTGFSSSRTLGSSS  
NTQNRQPPFALKPWLDIQHEGKGPEKIQVKAQKLDGSAEKECTSPSHSELPPPGVKVLI  
LPFLTLDQPPARHVSRRPNPLASRRPAVAYPARPDSTNSAQSNVNPSPAPTNTSLTGP  
ATPAQPISAKATQPSSANPTQPTVPQSAASRPSAYKTSSCSSLQREPVTAVTSLRSLPK  
PQNQFLIQDFSLQPRPWRKPTVPEPVMSTPITEEQRPEREAMKRKAQQERENAAKYTSLG  
KVQFFIERERDMEIAEYYGYTI

>sp|P08185|CBG\_HUMAN Corticosteroid-binding globulin OS=Homo sapiens GN=SERPINA6 PE=1  
SV=1

MPLLLYTCLLWLPTSGLWTVQAMDPNAAAYVNMSNHHRGLASANVDFAFSLYKHLVALSPK  
KNIFISPVSI SMALAMLSLGTGCHTRAQLLQGLGFNLTERSETEIHQGFQHLHQLFAKSD  
TSLEMTMGNALFLDGSLELLESFSADIKHYESEVLAMNFQDWATASRQINSYVKNKTQG  
KIVDLFSGLDSPAILVLVNYIFFKGTWTQPFDLASTREENFYVDETTVVKVPMMLQSSTI  
SYLHDESELPCQLVQMNYVGNGTVFFILPDKGKMNTVIAALSRDTINRWSAGLTSSQVDLY  
IPKVTISGVYDLGDVLEEMGIADLFTNQANFSRITQDAQLKSSKVVKAVLQLNEEGVDT  
AGSTGVTNLNTSKPIILRFNPFIIMIFDHTWSSFLARVMNPV

>sp|Q13489|BIRC3\_HUMAN Baculoviral IAP repeat-containing protein 3 OS=Homo sapiens  
GN=BIRC3 PE=1 SV=2

MNIVENSIFLSNLMKSANTFELKYDLSCELYRMSTYSTFPAGVPVSERSLARAGFYITGV  
NDKVKCFCCGLMLDNWKRGDSPTEKHKLYPSCRFVQSLNSVNNLEATSQPTFPSSVTNS  
THSLLPGTENSIFYRGSYSNSPNVNSRANQDFSALMRSSYHCAMNNENARLLTFQTWP  
LTFLSPTDLAKAGFYIIGPDRVACFACGGKLSNWEPKDNAMSEHLRHFPCPFIEQLQ  
DTSRYTVSNLSMQTHAARFKTFNWPSSVLNPEQLASAGFYVGNSSDDVKCFCCDGLR  
CWESGDDPWVQHAKWFRCEYLIRIKGQEFIRQVQASYPHLLEQLLSTSDSPGDENAESS  
IIHFEPGEDHSEDAIMMNTPVINAAVEMGFSRSLVKQTVQRKILATGENYRLVNDLVLDL  
LNAEDEIREEEERATEREEKESNDLLLIRKNRMALFQHLTCVIPILDSLLTAGIINEQEHD  
VIKQKTQTSLQARELIDTILVKGNIAATVFRNSLQAEAVLYEHLFVQQDIKYIPTEDVS  
DLPVEEQRLRLQEERTCKVCMDEKVSIVFIPCGHLVVCKDCAPSLRKCPICRSTIKGTVR  
TFLS

>sp|O15392|BIRC5\_HUMAN Baculoviral IAP repeat-containing protein 5 OS=Homo sapiens  
GN=BIRC5 PE=1 SV=3

MGAPTLPPAWQPFLKDHRISTFKNWPFLGCACTPERMAEAGFIHCPTENEPDLAQCFFC  
FKELEGWEPDDDPIDEEHKKHSSGCAFLSVKKQFEELTLGEFLKDRERAKNKIAKETNNK  
KKEFEETAKKVRRAIEQLAAMD

>sp|A4D250|BLACE\_HUMAN B-cell acute lymphoblastic leukemia-expressed protein OS=Homo sapiens  
GN=BLACE PE=2 SV=2

MMKDIIPASSWASEESTDLQNGSFPLSVAPRSEFPRRRALEDWLLSVFLADQAESEGLV  
LERVRDTPPPVTSRPGDGCIVSRGKAPSSPGGSTHAWLYLTRHFPWSPFPHGGWTDTSEP  
CVLETLGGSSLAALRGNSLWVQSSGACAFVYESLIEQSLPNERFEELLLGPSPGEVMK

>sp|P34820|BMP8B\_HUMAN Bone morphogenetic protein 8B OS=Homo sapiens GN=BMP8B PE=2 SV=2

MTALPGPLWLLGLALCALGGGGPLRPPPGCPQRRLGARERRDVQREILAVLGLPGRPRP  
RAPPAASRLPASAPLFMLDLYHAMAGDDDEDGAPAERRLGRADLVMSFVNMVERDRALGH  
QEPHWKEFRFDLTQIPAGEAVTAAEFRIYKVPSTHLLNRTLHVSMFQVQEQSNRESDLF  
FLDLQTLRAGDEGLVLDVTAASDCWLLKRHKDLGLRLYVETEDGHSVDPGLAGLLGQRA  
PRSQQPFVVTFFRASPSPIRTPRAVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQV  
CRRHELYVSFQDLGWDWVIAPIQGYSAAYCEGECFPLDSCMNATNHAILQSLVHLMMPD  
AVPKACCAPTKLSATSVLYYDSSNNVILRKHNMVVKACGCH

>sp|Q7Z5W3|BN3D2\_HUMAN Pre-miRNA 5'-monophosphate methyltransferase OS=Homo sapiens  
GN=BCDIN3D PE=1 SV=1

MAVPTELDGGSVKETAAEEESRVLAPGAAPFGNFPHYSRPHPEQRLRLLPPELLRQLFP  
ESPENGPILGLDVGCSGDLVALYKHFLSLPDGETCSDASREFRLCCDIDPVLKRAE  
KECPFPDALTFITLDFMNQRTRKVLSSFLSQFGRSVFDIGFCMSITMWIHLNHGDHGLW  
EFLAHLSSLCHYLLVEPQPWKCYRAAARRLRKLGHDHDFHSLAIRGDMPNQIVQILTQ



DHGMELICCFGNTSWDRSLLLFRAKQTIETHPIESLIEKGKEKNRLSFQKQ

>sp|Q12983|BNIP3\_HUMAN BCL2/adenovirus E1B 19 kDa protein-interacting protein 3 OS=Homo sapiens GN=BNIP3 PE=1 SV=2

MSQNGAPGMQEESLQGSWVELHFSNNGGSPASVSIYNGDMEKILLDAQHESGRSSSK  
SSHCDSPPRSQTPQDTNRASETDTHSIGEKNSSQSEDDIERRKEVESILKKNSDWIWDW  
SSRPENIPPKEFLFKHPKRTATLSMRNTSVMKKGIFSAEFLKVFLPSLLLSHLLAIGLG  
IYIGRRLTTSTSTF

>sp|Q96B45|BORC7\_HUMAN BLOC-1-related complex subunit 7 OS=Homo sapiens GN=BORCS7 PE=3 SV=1

MATGTPESQARFGQSVKGLLTEKVTTCTDVIATKQVLKGRSSELLGQAARNMVLQED  
AILHSEDSLKMAIITTHLQYQQEAIQKNVEQSSDLQDQLNHLK

>sp|Q6NZY7|BORG3\_HUMAN Cdc42 effector protein 5 OS=Homo sapiens GN=CDC42EP5 PE=2 SV=1

MPVLKQLGPAQPKKRPDRGALSISAPLGDFRHTLHVGRGGDAFGDTSFLSRHGGGPPPEP  
RAPPAGAPRSPPPAVPQSAAPSPADPLLSFHLDLGPSMLDAVLGVMDAARPEAAAKPD  
AEPRPGTQPPQARCRPNADLELNDVIGL

>sp|Q7Z569|BRAP\_HUMAN BRCA1-associated protein OS=Homo sapiens GN=BRAP PE=1 SV=2

MSVSLVIRLELAEHSPVPAGFGFSAAAGEMSDEEIKKTTLASAVACLEGKSPGEKVAII  
HQHLGRREMTDVIETMKSNDDELKTTVEERKSSEASPTAQRSKDHSKECINAAPDSPSK  
QLPDQISFFSGNPSVEIVHGIMHLYKTNKMTSLKEDVRRSAMLCLITVPAAMTSHDLMKF  
VAPFNEVIEQMKIIRDSTPNQYMLIKFRAQADADSFYMTCNGRQFNSIEDDVCQLVYVE  
RAEVLKSEDGASLPVMDLTCLPKCTVCLERMDESVNGILTLCNHSFHSQCLQRWDDTTC  
PVCRYCQTPEPVEENKCFECGVQENLWICLCGHIGCRYVSRHAYKHFEETQHTYAMQL  
TNHRVWDYAGDNYVHRLVASKTDGKIVQYCEGDTQEEKIDALQLEYSYLLTSQLESQR  
IYWENKIVRIEKDTAEIINNMKTKFKETIEKCDNLEHKLNDLLKEKQSVKCTQLNTKV  
AKLTNELKEEQEMNKCLRANQVLLQNKLEEEERVLKETCDQKDLQITEIQEQLRDVMFYL  
ETQQKINHLPAETRQEIQEGQINIAMASASSPASSGGSGKLPSRKGRSKRGK

>sp|Q15059|BRD3\_HUMAN Bromodomain-containing protein 3 OS=Homo sapiens GN=BRD3 PE=1 SV=1

MSTATTVPAGIPATPGPVNPPPEVSNPSKPGRKTNQLQYMQNVVVKTLWKHQFAWPFY  
QPVDAIKLNLDPYHKI IKNPMDMGTIKKRENNYYWSASECMQDFNTMFTNCYIYNKPTD  
DIVLMAQALEKIFLQKVAQMPQEEVELLPAPKGGKGRKPAAGASAGTQQVAAVSSVSPA  
TPFQSVPTVSQTPVIAATPVPTITANVTSVPVPPAAAPPPPATPIVPVVPPTPPVVKKK  
GVKRKADTTTTPTTSITASRSSEPPPLSDPKQAKVVARRESGGRPIKPPKDLEDGEVPQ  
HAGKKGKLEHLRYCDSILREMLSKKHAAYAWPFYKPVDAEALHDYHDI IKHPMDLST  
VKRMDGREYPDAQGAADVRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRFAKMPDEPV  
EAPALPAPAAPMVSKGAESSRSSEESSDSGSSDSEERATRLAELQEQLKAVHEQLAAL  
SQAPVKNPKKKKEKEKEKKKKDKKEKEKEKHVKAEKEKAKVAPPAKQAQKKAPAKKA  
NSTTTAGRQLKKGKQASASYDSEEEEEGLPMSYDEKRQLSLDINRLPGEKLRVVHIIQ  
SREPSLRDSNPDEIEIDFETLKPTTLRELERYVKSLQKKQRKPFASGKKQAASKEEL  
AQEKKKELEKRLQDVSGQLSSSKKPARKEKPGSAPSGGPSRLSSSSSESSESSSSSGSS  
DSSDSE

>sp|O60885|BRD4\_HUMAN Bromodomain-containing protein 4 OS=Homo sapiens GN=BRD4 PE=1 SV=2

MSAESGPGTRLRNLPMGDGLETSQMSTTQAQAQPQANAASTNPPPPETSNNPKPKRQT  
NQLQYLLRVVLKTLWKHQFAWPFQPVDAVKLNLDPYKIIKTPMDMGTIKKRENNYYW  
NAQECIQDFNTMFTNCYIYNKPGDDIVLMAEALFKLQKINELPTEETEIMIVQAKGRG

RGRKETGTAKPGVSTVPNTTQASTPPQTQTPQNP PPPVQATPHFPFAVTPDLIVQTPVMT  
VVPQPLQT PPPVPPQPQPPAPAPQPVQSHPP I I AATPQPVKTKKGVKRKADTTTPTTI  
DPIHEPPSLPPEPKTTKLGRRESSRPVKPKKDVDSQQHPAPEKSSKVSEQLKCCSGI  
LKEMFAKKHAAYAWPFYKPV DVEALGLHDYCDI I KHPMDMSTIKSKLEAREYRDAQEFGA  
DVRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRFAKMPDEPEEPVAVSSPAVPPPTKV  
APSSSDSSSDSSSDSDSSTDDSEEERAQRLAELQEQLKAVHEQLAALSQPQQNKPKKKE  
KDKKEKKKEKHKRKEEVEENKSKAKEPPPKTKKNNSSNSNVSKKEPAPMKS KPPPTYE  
SEEDKCKPMSYEEKRQLSLDINKLPGEKLGRVVHI IQSREPSLKNSNPDEIEIDFETLK  
PSTLRELERVYTSCLRKKRKPQAEKVDV IAGSSKMKGFSSSESESSSESSSDSEDSETE  
MAPKSKKKGHPGREQKKHHHHHHQMQQAPAPVPQPPPPPPQPPPPPPPPQPPPPPPPP  
PPPSMPQQAAPAMKSSPPPF IATQVPVLEPQLPGSVFDP IGHFTQPI LHLPQPELPPHLP  
QPPEHSTPPHLNQHAVVSPPALHNALPQQPSRPSNR AALPPKPARPPAVSPALTQTPLL  
PQPPMAQPPQV LLEDEEPPAPPLTSMQMQLYLQQLQKVQPPTPLPSVKVQSQPPPLPP  
PPHPSVQQQLQQPPPPPPPPQPPPPQQHQPPPRPVHLQPMQFSTHIQPPPPQGGQPP  
HPPPGQQPPPPQPAKPQQV IQHHHSPRHHKSDPYSTGHLREAPSPLMIHSPQMSQFQSLT  
HQSPQQNVQPKQELRAASVVQPPQLVVVKEEKIHSP IIRSEPFSPSLRPEPPKHPESI  
KAPVHLPQRPEMKPVDVGRPVIRPEQNAPPPGAPDKDKQKQEPKTPVAPKKDLKIKNMG  
SWASLVQKHPTTSS TAKSSSDSFEQFRRAAREKEEREKALKAQA EHAKEKERLRQERM  
RSREDEDALEQARRAHEEARRRQEQQQQQRQEQQQQQQQAAA VAAAATPQAQSSQPQSM  
LDQQRELARKREQERRRREAMAATIDMNFQSDLLSIFEENLF

>sp|Q9H0E9|BRD8\_HUMAN Bromodomain-containing protein 8 OS=Homo sapiens GN=BRD8 PE=1 SV=2

MATGTGKHKLSTGTPWP SIREKLCLASSVMRSGDQNWVS SRAIKPFAEPGRPPDWFS  
QKHCASQYSELLETETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYR  
RLKRDAELIQAGHMDSRLDEL CNDIATKKKLEEEEA EVKRKATDAAYQARQAVKTPPRRL  
PTVMVRSPIDSASPGGDYPLGDLTPTTME EATSGVNESEMAVASGHLNSTGV LLEVGGVL  
PMIHGGEIQQTNPNTVAASPAASGAPTL SRLLEAGPTQFTTPLASFTTVASEPPVKLVPPP  
VESVSQATIVMMPALPAPSSAPAVSTTESVAPVSQPDNCVPM EAVGDPHTVTVSMDSSEI  
SMIINSIKEECFRSGVAEAPVGSKAPSIDGKEELD LAEKMDIAVSYTGEELDFETVGDII  
AI IEDKVDDHPEVLDAAVEAALS FCEENDDPQSLPGPWEHPIQ QERDKPVPLPAEMTV  
KQERLDFEETENKGIHELVDIREPSAEIKVEPAEPEPVISGAEIVAGVVPATSM EPPPELR  
SQDLDEELGSTAAGEIVEADVAIGKGETPLTNVKTEASPESMLSPSHG SNPIEDPLEAE  
TQHKFEMSDSLKEESGTIFGSQIKDAPGEDEEEDGVSEAASLEEPKEEDQGE GYLSEMDN  
EPPVSESDDGFSIHNATLQSHTLADSI PSSPASSQFSVCSEDQEA IQAQKIWKKAIMLVW  
RAAANHRYANVFLQPVTD DIAPGYHSIVQRPMDLSTIKKNIENGLIRSTAEFQRD IMLMF  
QNAVMYNSSDHDVYHMAVEMQRDVLEQIQQLATQLIMQTS ESGISAKSLRGRDSTRKQD  
ASEKDSVPMGSPAFLLSLFMGHEWVWLDSEQDHPNDSEL SNDCRSLFSSWSSLDLDVGN  
WRETEDPEAELEE SPPERPESELLVGDGGSEESQEAARKASHQNL LHFLSEVAYLMEPL  
CISSNESSEGCCPPSGTRQEGREIKASEGERELCRETEELSAKG DPLVAEKPLGENGKPE  
VASAPSVICTVQGLL TESEEGEAQQESKGEDQGEVYVSEMEDQPPSGECDDAFNIKETPL  
VDTLFSHATSSKLTDSLQDDPVQDHL LFKKTLLPVWKMIASHRFSSPFLKPVSERQAPGY  
KDVVKRPMDLTSLKRNL SKGRI RTMAQFLRDLMLMFQNAV MYNDSHHVYHMAVEMRQEV  
LEQIQVLNIWLDKRKGSSSLEGE PANPVDDGKPVF

>sp|Q9GZN4|BSSP4\_HUMAN Brain-specific serine protease 4 OS=Homo sapiens GN=PRSS22 PE=1  
SV=1

MVVS GAPPALGGGCLGTFTSLLLLASTAILNAARIPVPPACGKPQQLNRVVGGEDSTDSE  
WPWIVSIQKNGTHHCAGSLTSRWVITA AHCFKDNLNKPYLFSVLLGAWQLGNPGSRSQK  
VGVAVVEPHPVYSWKEGACADIALVRLERSIQFSERVLPICLPDASIHLPNTHCWISGW  
GSIQDGVPLPHPQTLQKLKVP IIDSEVCSHLYWRGAGQGPITEDMLCAGYLEGERDACLG  
DSGGPLMCQVDGAWLLAGIISWGEGCAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQG  
GGALRAPSQSGSAAAARS

>sp|Q8WVV5|BT2A2\_HUMAN Butyrophilin subfamily 2 member A2 OS=Homo sapiens GN=BTN2A2 PE=1  
SV=2

MEPAAALHFSLPASLLLLLLLLLSL CALVSAQFTTVGPNPILAMVGENTTLRCHLSPE  
KNAEDMEVRWFRSQFSPAVFVYKGGRETEEQMEEYRGRITFVSKDINRG SVALVIHNVT  
AQENGIYRCYFQEGRSYDEAILRLV VAGLGSKPLIEIKAQEDGSIWLECISGGWYPEPLT  
VWRDPYGEVVPALKEVSIADADGLFMVTTAVIIRDKYVRNVSCSVNNTLLGQEKETVIFI  
PESFMPSASPWMVALAVILTASPWMVSM TVILAVFIIFMAVSICCIKKLQREKKILSGEK  
KVEQEEKEIAQQLQEELRWRRTFLHAADVLDPDTAHPELFLSEDRRSVRRGPYRQRPD  
NPERFDSQPCVLGWESFASGKH YVEVEVENVMVWTVGVC RHSV ERKGEVLLIPQNGFWTL  
EMFGNQYRALSSPERILPLKESLCRVGVFLDYEAGDVSFYNM RDRSHIYTCPRSAFTVPV  
RPFFRLGSDDSPIFICPALTGASGVMVPEEGLKLHRVGTHQSL

>sp|Q96K17|BT3L4\_HUMAN Transcription factor BTF3 homolog 4 OS=Homo sapiens GN=BTF3L4 PE=1  
SV=1

MNQEKLAKLQAQVRIGGKTARRKKKV VHR TATADDKKLQSSLKKLAVNNIAGIEEVNMI  
KDDGTVIHFNNPKVQASLSANTFAITGHAEAKPITEMLPGILSQLGADSLTSLRKLAEQF  
PRQVLDSKAPKPEDIDEEDDDV PDLVENFDEASKNEAN

>sp|Q9P203|BTBD7\_HUMAN BTB/POZ domain-containing protein 7 OS=Homo sapiens GN=BTBD7 PE=1  
SV=3

MGANASNYPHSCSPRVGGNSQAQQTFIGTSSYSQQGYGCESKLYSLDHGHEKPQDKKKRT  
SGLATLKKKFIKRRKSNRSADHAKQMRELLSGWDVRDVNALVEEYEGTSALKELSLQASL  
ARPEAR TLQKDMADLYEYKYCTD VDLIFQETCFPVHRAILAARCPFFKTLSSSPEYGAE  
IIMDINTAGIDMPMF SALLHYLTGEFGMEDSRFQNV DILVQLSEEFGT PNSLDVDMRGL  
FDYMCYYDVVLSFSSDSELVEAFGGNQNC LDEELKAHKAVISARSPFFRNLLQRRIRTGE  
EITDRTL RTPTRIILDESIIPKKYATVILH CMYTDVVDLSVLHCSPSVGSLSEVQALVAG  
KPNMTRAEEMELYHIALFLEFNMLAQGCEDIIAESISLDTLIAILKWSHPYGSKWVHR  
QALHFLCEEFSQVMTSDVFYELSKDHLLTAIQSDYLQASEQDILKYLK WGEHQLMKRIA  
DREP NLLSGTAHSV NKRGVKRRDLMEELREILSSLLPFVRIEHILPINSEVLSDAMKRG  
LISTPPSDMLPTTEGGKSNAWLRQKNAGIYVRPRLFS PYVEEAKSVLDEMMVEQTDLVRL  
RMVRMSNPDTLYMVNNAV PQCHMISHQQISSNQSSPPSVVANEIPVPRLLIMKDMVRR  
LQELRHTEQVQRAYALNCGEGATVS YEIQIRVLREFGLADAAAELLQNP HKFFPDERFGD  
ESPLL TMRQPGRCRVNSTPPAETMFTD LDSFVAFHPPLPPPPPPYHP PATPIHNQLKAGW  
KQRPPSQHPSRSFSYPCNHS LFHSRTAPKAGPPPVYLP SVKAAPPDCTSTAGLGRQTVAA  
AAATTTSTATAAAAAASEKQVRTQPV LNDLMPDIAVGVSTLSLKDRRLPELAVDTELSQS  
VSEAGPQPQHLSCIPQRHTHTSRKKHTLEQKTD TREN PQEYPDFYDFSNAACRPSTPAL  
SRRTSPSPSQGGYFGPDLYSHNKASPSGLKSAYLP GQTSPKKQEEARREYPLSPDGHLHRQ  
KNEPIHLDVVEQPPQRSDFPLAAPENASTGPAHVRGRTAVETDLTFGLTPNRPSLSACSS  
EAPERSGRRLADSESLGHGAQRNTDLEREDSISRGRSPSKPDFLYKKSAL

>sp|B2RXH4|BTBD1\_HUMAN BTB/POZ domain-containing protein 18 OS=Homo sapiens GN=BTBD18  
PE=2 SV=1

MCSPASPKILYRNPRFLRLAFLQLHHQQQSDVFCVLLQAEGEAVPAHCCILSACSPFFT  
ERLERERPAQGGKVVLLELGLKISTLRKLVDFLYTSEMEVSQEEAQDVLSAARQLRVSEL  
ESLQLEGGKLVKAPQGRRLNRECLQPTSAAPISARVVTPSHHPHTPLPTNQTCPPLGAIR  
LKSLGKEEGPQENNRQNADNLSTLLLRKRARACPTPQEKNSSPSSHSEPRENKNDTAL  
DPTVLSPPSLYPSVDKHLPRKIRLSRSKPSPGICTSKPSSILSGSSSVPATPGRRLLWRQ  
RSVNKETPEDKPKPGRASPLQSTPNPSGLGKTGGSRKRSPEVRAPNSDSAEEGQVGRVKL  
RKIVNGTCWEVVQETPLKNTQDSPQIPDPGGDFQEPSGTQPFSSNEQEMSPTRTELCQDS  
PMCTKLQDILVSASHSPDHPVVKSEFESSPELVEKEPMLAIDCREPYAFDTALLEQPCEA  
EEYRITSAAATSELEEILDFMLCGSDIEPPIGSLESPGAEGCRTPTYHLTETGKNWIEGE  
EWCLPDMELWPRELTELEKEPAGENRGPTTELLSPLVMPSEVSEVLSVGGRWTPDLEITSS  
QPLDGQEDKLLHVSSLDTPQRSYGDLSPPCSNWWETGLEVSLTTDELLYSPKAGKEVSG  
HSELLGSLPASSEEEEEIDVVDWTAEGRLVPTTVPSVWDPSSSESETEVDILT

>sp|P35070|BTC\_HUMAN Probetacellulin OS=Homo sapiens GN=BTC PE=1 SV=1

MDRAARCSGASSLPLLLALGLVILHCVVADGNSTRSPETNGLLCGDPEENCAATTTQS  
KRKGHFSRCPKQKYHYCIKGRCFVVAEQTPSCVCDEGYIGARCERVDLFYLRGDRGQIL  
VICLIAVMVFIILVIGVCTCCHPLRKRKRKKKEEMETLGKDITPINEDIEETNIA

>sp|Q9NY30|BTG4\_HUMAN Protein BTG4 OS=Homo sapiens GN=BTG4 PE=2 SV=1

MRDEIATTVFVTRLVKKHDKLSKQQIEDFAEKLMTILFETYRSHWSDCPKQGAFCI  
RINNNQNKDPIERACVESNVDFSHLGLPKEMTIWVDPFEVCCRYGEKNHPFTVASFKGR  
WEEWELYQQISYAVSRASSDVSSGTSCDEESCSKEPRVIPKVSNPKSIYQVENLKQPFQS  
WLQIPRKKNVVDGRVGLLGNTYHGSQKHPKCYRPAMHRLDRIL

>sp|O43684|BUB3\_HUMAN Mitotic checkpoint protein BUB3 OS=Homo sapiens GN=BUB3 PE=1 SV=1

MTGSNEFLKNQPPEDGISSVKFSPNTSQFLLVSSWDTSVRLYDVPANSMRLKYQHTGAVL  
DCAFYDPTHAWSGGLDHQLKMHDNLTDQENLVGTHDAPIRCVEYCEPVNVMVTGSWDQTV  
KLWDPRTPCNAGTFSQPEKVYTLVSGDRLIVGTAGRRVLVWDLRNMGYVQQRRESSLKY  
QTRCIRAFPNKQGYVLSSIEGRVAVEYLDPSPEVQKKKYAFKCHRLKENNIEQIYPVNAI  
SFHNIHNTFATGSGDFVNIWDPFNKKRLCQFHRYPTSIASLAFSNDGTTLAIASSYME  
MDDTEHPEDGIFIRQVTD AETKPKSPCT

>sp|Q7L1Q6|BZW1\_HUMAN Basic leucine zipper and W2 domain-containing protein 1 OS=Homo sapiens GN=BZW1 PE=1 SV=1

MNNQKQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLEAVAKFLDASGAK  
LDYRRYAETLFDILVAGGMLAPGGTLADMMRTDVCVFAAQEDLETMQAFAQVFNKLIRR  
YKYLEKGFEDVKKLLLFLKGFSESERNKLA MLTGVL LANGTLNASILNSLYNENLVKEG  
VSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQSVEHFTKYFTEAGLKE  
LSEYVRNQQTIGARKELQKELQE QMSRGDPFKDII LYVKEEMKNNIPEPVVIGIVWSSV  
MSTVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLKIQEYCYDNIHFMKAFQ  
KIVVLFYKAEVLSEEPILKWKDAHVAKGKSVFLEQMKKFVEWLKNAEEESESEAEEGD

>sp|P15538|C11B1\_HUMAN Cytochrome P450 11B1, mitochondrial OS=Homo sapiens GN=CYP11B1  
PE=1 SV=5

MALRAKAEVCMAPWLSLQRAQALGTRAARVPRTVLPFEAMPRRPGNRWLRLQLIWREQG  
YEDLHLEVHQTFQELGPIFRYDLGGAGMVCMLPEDVEKLQQVDSLPHRMSLEPWVAYR  
QHRGHKCGVFLNGPEWRFNRLRLNPEVLS PNAVQRFLPMVDAVARDFSQALKKKVLQNA

RGSLTLDVQPSIFHYTIEASNLALFGERLGLVGHPSSASLNFLHALEVMFKSTVQLMFM  
PRLSRWTSKPVWKEHFEAWDCIFQYGDNCIQKIYQELAFSRPQQYTSIVAELLNAELS  
PDAIKANSMELTAGSVDTTVFPLMLTLFELARNPNVQQALRQESLAAAASISEHPQKATT  
ELPLLRAALKETRLRYPVGLFLERVASSDLVLQNYHIPAGTLVRVFLYSLGRNPALFPRP  
ERYNPQRWLDIRSGRNFYHVPFGFGMRQCLGRRLAEAEMLLLLHHVLKHLQVETLTQED  
IKMVYSFILRPSMFPLLTFRAIN

>sp|Q69YN2|C19L1\_HUMAN CWF19-like protein 1 OS=Homo sapiens GN=CWF19L1 PE=1 SV=2

MAQKPLRLLACGDVEGKFDILFNRVQAIQKKSGNFDLLLCVGNFFGSTQDAEWEEYKGTI  
KKAPIQTYVLGANNQETVKYFQDADGCELAENITYLGRKGIFTGSSGLQIVYLSGTESLN  
EPVPGYSFSPKDVSSLRMMLCTTSQFKGVDILLTSPWPKCVGNFGNSSGEVDTKKCGSAL  
VSSLATGLKPRYHFAALEKTYERLPYRNHIIHQENAHATRFIALANVGNPEKKKYLYA  
FSIVPMKLMDAAEVLKQPPDV TENPYRKSGQEASIGKQILAPVEESACQFFFDLNEKQGR  
KRSSTGRDSKSSPHPKQPRKPPQPPGPCWFCLASPEVEKHLVVNIGTHCYLALAKGGLSD  
DHVLILPIGHYQSVVELSAEVVEEVEKYKATLRRFFKSRGKWCVVFERNYKSHHLQLQVI  
PVPISCSTDDIKDAFITQAQEQQIELLEIPEHSDIKQIAQGAAYFYVELDTGEKLFHR  
IKKNFPLQFGREVLASEAILNVPDKSDWRQCQISKEDDETLARRFRKDFEPYDFTLDD

>sp|Q13901|C1D\_HUMAN Nuclear nucleic acid-binding protein C1D OS=Homo sapiens GN=C1D PE=1  
SV=1

MAGEEINEDYPVEIHEYLSAFENSIGAVDEMLKTMSVSRNELLQKLDPLEQAKVDLVSA  
YTLNSMFWVYLATQGVNPKHEHPVKQELERIRVYMNVRVKEITDKKKAGKLDGAASRFVKN  
ALWEPKSKNASKVANKGKSKS

>sp|Q9NS00|C1GLT\_HUMAN Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1  
OS=Homo sapiens GN=C1GALT1 PE=1 SV=1

MASKSWLNFLTFLCGSAIGFLLCSQLFSILLGEKVDTPQPNVLHNDPHARHSDDNGQNHLE  
GQMNFNADSSQHKDENTDIAENLYQKVRILCWVMTGPQNLEKKAKHVKATWAQRCNKVLF  
MSSEENKDFPAVGLKTKEGRDQLYWKTIKAFQYVHEHYLEDADWFLKADDDTYVILDNLR  
WLLSKYDPEEPIYFGRRFKPYVKQGYMSGGAGYVLSKEALKRFVDAFKTDKCTHSSSIED  
LALGRCMEIMNVEAGDSRDTIGKETFHPFVPEHHLIKGYLPRTFWYWNYYPPVEGPGC  
CSDLAVSFHYVDSTMYELEYLVYHLRPYGYLYRYQPTLPERILKEISQANKNEDTKVKL  
GNP

>sp|P02745|C1QA\_HUMAN Complement C1q subcomponent subunit A OS=Homo sapiens GN=C1QA PE=1  
SV=2

MEGPRGWLVLCLVAISLASMVTEDLCRAPDGKKGEAGRPGRGRPLKGEQGEPPGAPGIR  
TGIQGLKGDQGEPPSGNPGKVGYPGPGPLGARGIPGIKGTGSGPNIKDQPRPAFSAI  
RRNPPMGGNVIFDVTITNQEEPYNHSGRFVCTVPGYYYFTFQVLSQWEICLSIVSSSR  
GQVRRSLGFCDDTNKGLFQVVGGMVLQLQQGDQVWVEKDPKKGHIYQGSEADSVFSGFL  
IFPSA

>sp|Q9BXJ5|C1QT2\_HUMAN Complement C1q tumor necrosis factor-related protein 2 OS=Homo  
sapiens GN=C1QTNF2 PE=1 SV=1

MIPVWLLACALPCAADPLLGAARRDFRKGSPQLVCSLPGPQGPPGPPGAPGPGSGMMGRM  
GFPGKDGDGHDGRDGSGEEGPPGRTGNRGKPGPKGAGAI GRAGPRGPKGVNGTPGKH  
GTPGKKGPKGKGEPGLPGPCSCSGHTKSAFSVAVTKSYPRERLPIKFDKILMNEGGHY  
NASSGKFVCGVPGIYYFTYDITLANKHLAIGLVHNGQYRIRTFDANTGNHDTVASGSTILA  
LKQGDEVWLQIFYSEQNGLFYDPYWTDSLFTGFLIYADQDDPNEV

>sp|Q9BXJ4|C1QT3\_HUMAN Complement C1q tumor necrosis factor-related protein 3 OS=Homo sapiens GN=C1QTNF3 PE=1 SV=1

MLWRQLIYWQLLALFFLPFCLCQDEYMESPQTGGLPPDCSKCCHGDYSFRGYQGPPGPPG  
PPGIPGNHGNNGNNGATGHEGAKGEKGDKGDLGPRGERGQHGPKEGKGYPGIPPELQIAF  
MASLATHFSNQNSGIISSVETNIGNFFDVMTGRFGAPVSGVYFFTFMMKHEDVEEVYV  
YLMHNGNTVFSMYSYEMKGKSDTSSNHAVLKLAKGDEVWLRMGNGALHGDHQRSTFAGF  
LLFETK

>sp|Q9BV19|CA050\_HUMAN Uncharacterized protein Clorf50 OS=Homo sapiens GN=Clorf50 PE=1 SV=2

MEDAAAPGRTEGVLERQGAPPAAGQGALVELTPTPGGLALVSPYHTRAGDPLDLVALA  
EQVQKADEFIRANATNKLTVIAEQIQHLQEARKVLEDAHRDANLHHVACNIVKKPGNIY  
YLYKRESGQQYFSIISPKEWGTSCPHDFLGAYKLQHDLSWTPYEDIEKQDAKISMMDTLL  
SQSVALPPCTEPNFQGLTH

>sp|Q5SVJ3|CA100\_HUMAN Uncharacterized protein Clorf100 OS=Homo sapiens GN=Clorf100 PE=2 SV=1

MTAIRLREFIERRPVIPPSIFIAHQGRDVQGYYPGQLARLHFDHSAKRAPRPLIDLTIPT  
KTKYHYQPQLDQQLIRYICLRRHSKPAEPWYKETTYRRDYSLPFYEIDWNQKLATVSLN  
PRPLNSLPELYCCEERSSFERNAFKLK

>sp|Q8N1D5|CA158\_HUMAN Uncharacterized protein Clorf158 OS=Homo sapiens GN=Clorf158 PE=2 SV=2

MFLTAVNPQLSTPSWQIETKYSTKVLTGNWMEERRKFTRDTKTPQSIYRKEYIPFPDH  
RPDQISRWYGKRKVEGLPYKHLITHHQEPHRYLISTYDDHYNRHGYNPGLPLRTWNGQ  
KLLWLPEKSDFPLLAPPTNYGLYEQLKQRQLTPKAGLKQSTYTSSYPRPPLCAMSWREHA  
VPVPPHRLHPFPHF

>sp|Q8IYL3|CA174\_HUMAN UPF0688 protein Clorf174 OS=Homo sapiens GN=Clorf174 PE=1 SV=2

MRSRKLTGAVRSSARLKARSCSAARLASAQEVAGSTSAKTACLTSSSHKATDTRTSKKFK  
CDKGHLVKSELQKLVPKNDSASLPKVTPETPCENFAEGSALLPGSEAGVSVQGAASLP  
LGGCRVVSDSLAKTRDGLSVPKHSAGSGAEESNSSSTVQKQNEPGLQTEDVQKPPLQMD  
NSVFLDDDSNQMPVSRFFGNVELMQDLPPASSSCPSMSRREFRKMHFRAKDDDDDDDD  
AEM

>sp|Q6ZWK4|CA186\_HUMAN Uncharacterized protein Clorf186 OS=Homo sapiens GN=Clorf186 PE=2 SV=1

MLTEVMEVWHGLVIAVVSFLQACFLTAINYLSSRHMAHKSEQILKAASLQVPRPSPGHH  
HPPAVKEMKETQTERDIPMSDSLRYHSDTSPSDSLDSSCSPPACQATEDVDYTVVFS  
PGELKNDSPLDYENIKEITDYVNVNPERHKPSFWYFVNPALSEPAEYDQVAM

>sp|Q5T5A4|CA194\_HUMAN Uncharacterized protein Clorf194 OS=Homo sapiens GN=Clorf194 PE=2 SV=1

MPPTRPDPFQQPTLDNDSYLGELRASKKLKYKNPHTLAQQQEPWSRLNSTPTITSMRRDA  
YYFDPEIPKDDLDFRLAALYNHHTGTfKNKSEILLNQKTTQDITYRTKIQFPGEFLTPPTP  
PITFLANIRHWINPKKESIHSIQGSIVSPHTAATNGGYSRKKDGGFFST

>sp|A1L170|CA226\_HUMAN Uncharacterized protein Clorf226 OS=Homo sapiens GN=Clorf226 PE=1 SV=1

MFENLNTALTPKLQASRSFPHLSKPVAPGSAPLGSGEPGGPGLWVGSSQHLKNLGKAMGA  
KVNDFLRRKEPSSLSVGVTEINKTAGAQLASGTDAPEAWLEDERSVLQETFPRLDPPP

PITRKRTPRALKTTQDMLISSQPVLSSEYGTSPGQAQDSAPTAQPDVPADASQPEAT  
MEREERGKVLPNGEVSLSPVDLIHKDSQDESKLMTECRRASSPSLIERNGFKLSLSPIS  
LAESWEDGSPPPQARTSSLDNEGPHPDLLSFE

>sp|P54289|CA2D1\_HUMAN Voltage-dependent calcium channel subunit alpha-2/delta-1 OS=Homo  
sapiens GN=CACNA2D1 PE=1 SV=3

MAAGCLLALTLTLFQSLIGPSSEEPFSAVTIKSWVDKMQEDLVTAKTASGVNQLVDI  
YEKYQDLYTVEPNNAARQLVEIAARDIEKLLSNRSKALVRLALEAEKVQAAHQWREDFASN  
EVVYYNAKDDLDPKNDSEPGSQRIKPVFIEDANFGRQISYQHAHVHIPTDIYEGSTIVL  
NELNWTALDEVFKNREEDPSLLWQVFGSATGLARYYPASPWVDNSRTPNKIDLYDVR  
RPWYIQGAASPKDMLILVDVSGSVSGLTLKLIRTSVSEMLETLSDDDFVNVASFNSNAQD  
VSCFQHLVQANVRNKKVLKDAVNNTAKGITDYKKGFSFAFEQLNYNVSRANCNKIIML  
FTDGGEERAQEIFNKYNKDKKVRVFTFSVGQHNYDRGPIQWMACENKGYEYIPIGAI  
INTQEYLDVLGRPMVLADGKAKQVQWTVNYLDALELGLVITGTLPVFNITGQFENKTNL  
NQLILGVMGVDVSLIEDIKRLTPRFTLCPNGYYFAIDPNGYVLLHPNLQPKPIGVGIP  
TINLRKRRPNIQNPKSQEPVTLDFLDAELNDIKVEIRNKMIDGESGEKTFRTLKVSQDER  
YIDKGNRTYTWTVPNGTDYSLALVLPYTSFYIYKAKLEETITQARYSETLKPDNFEESG  
YTFIAPRDYCNDLKISDNTEFLNFEFIDRKTNNPSCNADLINRVLLDAGFTNELVQNYW  
SKQKNIKGVKARFVVDGGITRVYPKEAGENWQENPETYEDSFYKRSLDNDNYVFTAPY  
FNKSGPGAYESGIMVSKAVEIYIQGKLLKPAVVGIIKIDVNSWIENFTKTSIRDPCAGP  
VCDCKRNSDVMDCVILDDGGFLMANHDDYTNNQIGRFFGEIDPSLMRHLVNISVYAFN  
KSYDQSVCEPGAAPKQGAGHRSAYVPSVADILQIGWWATAAAWSILQQFLLSLTFPRLL  
EAVEMEDDDFTASLSKQSCITEQTQYFFDNDKSKFSGLDCGNCSTRIFHGEKLMNTNL  
IFIMVESKGTCPDTRLLIQAEQTSQGNPCDMVKQPRYRKGPVCFDNNVLEDYTDCCGVS  
GLNPSLWYIIGIQFLLLWLVS GSTHRL

>sp|Q8IZS8|CA2D3\_HUMAN Voltage-dependent calcium channel subunit alpha-2/delta-3 OS=Homo  
sapiens GN=CACNA2D3 PE=1 SV=1

MAGPGSPRRASRGASALLAAALLYAALGDVVRSEQQIPLSVVKLWASAFGGGEIKSIAA  
KYSQSGLLQKKYKEYEKDVAIEEIDGLQLVKKLAKNMEEMFHKSEAVRRLVEAAEEAHL  
KHEFDADLQYEFYNAVLINERDKGNFLELGKEFILAPNDHFNNLPVNISLSDVQVPTN  
MYN KDPAIVNGVYWSESLNKVFVDNFRDPSLIWQYFGSAKGFFRQYPGIKWEPDENG  
VIAFD CRNRKWIYQAATSPKDVVILVDVSGSMKGLRLTIKQTVSSILDTLGDDDFNII  
AYNEELHYVEPCLNGTLVQADRTNKEHFREHLDKLFAKGIGMLDIALNEAFNILSDFNHT  
GQGSICSQAIMLITDGAVDTYDTIFAKYNWPDRKVRIFTYLIGREAAFADNLKWMACAN  
KGFFTQISTLADVQENVMEYLHVLSRPKVIDQEHDVVWTEAYIDSTLPQAQKLTDQGPV  
LMTTVA MPVFSKQNETRSKGILLGVVGTDPVKELLKTI PKYKLG IHGYAFAITNNGYIL  
THPELRLLYEEGKKRRKPNYSSVDLSEVEWEDRDDVLRNAMVNRTGKFSMEVKKTVDKG  
KRVLM TNDYYYTDIKGTPFSLGVALSRGHGKYFFRGNVTIEEGLHDLHPDVSLADEWSY  
CNTDLHPEHRHLSQLEAIKLYLKGEPLLCQDKELIQEVLFDAVVSAPIEAYWTSALNKS  
ENS DKGEVAFLGTRTGLSRINLFVGAEQLTNQDFLKAGDKENIFNADHFPLWYRRAEQI  
PGSFVYSIPSTGPNKSNVVTASTSIQLLDERKSPVVAAVGIQMKLEFFQRKFWTASRQ  
CASLDGKCSISCDDTVNCYLIDNNGFILVSEDYTGTDFFGEIEGAVMNKLLTMGSFKRIT  
LYDYQAMCRANKESSDGAHLLDPYNAFLSAVKWIMTELVLFLVEFNLCSSWWHSDMTAKA  
QKLKQTLPCDTEYPAFVSERTIKETTGNIACEDCSKSFVIQQIPSSNLFMVVDSSCLCE  
SVAPITMAPIEIRYNESLK CERLKAQKIRRRPESCHGFHPEENARECGGAPSLQAQTVLL

LLPLLLMLFSR

>sp|P55286|CADH8\_HUMAN Cadherin-8 OS=Homo sapiens GN=CDH8 PE=2 SV=2

MPERLAEMLLDLWTLPIILWITLPPCIYMAPMNSQVLMMSGSPLENSLGEEQRILNRSK  
RGWVWNQMFVLEEFSGPEPILVGRLHTDLDPGSKKIKYILSGDGAGTIFQINDVTGDIHA  
IKRLDREEKAEYTLTAQAVDWETSKPLEPPSEFIKVDINDNAPEFLNGPYHATVPEMS  
ILGTSVTNVTATDADDPVYGNSAKLVYSILEGQPYFSIEPETAIKKTALPNMDREAKEY  
LVVIQAKDMGGHSGGLSGTTTLTVTLTDVNDNPPKFAQSLYHFSVPEDVVLGTAIGRVKA  
NDQDIGENAQSSYDIIDGDGTALFEITSDAQADGIIRLRKPLDFETKKSYYTLKVEAANV  
HIDPRFSGRGPFKDTATVKIVVEDADEPPVFSSPTYLLEVHENAALNSVIGQVTARDPDI  
TSSPIRFSIDRHTDLERQFNINADDGKITLATPLDRELSVWHNITIIATEIRNHSQISRV  
PVAIKVLDVNDNAPEFASEYEAFLCENGKPGQVIQTVSAMDKDDPKNGHYFLYSLLPEMV  
NNPNFTIKKNEDNSLSILAKHNGFNRRQKQEVYLLPIIISDSGNPPLSSTSTLTIRVCGCS  
NDGVVQSCNVEAYVLPIGLSMGALIAILACIILLLVIVVLFVTLRRHKNEPLIKDDEDV  
RENIIRYDDEGGGEEDTEAFDIATLQNPDGINGFLPRKDIKPDQLQFMPRQGLAPVNGVD  
VDEFINVRLHEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESTTSDSQNFYDLSDWG  
PRFKRLGELYSVGESDKET

>sp|O43852|CALU\_HUMAN Calumenin OS=Homo sapiens GN=CALU PE=1 SV=2

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHNDQSFYDHDHDAFLGAEAAKT  
FDQLTPEESKERLGKIVSKIDGDKGFVTVDLKDVIKFAQKRWIYEDVERQWKGHDLE  
DGLVSWEYKNGATYGYVLDPPDDPGFNYKQMMVRDERRFKMDKGDLIATKEEFTAF  
HPPEYDYMKDIVVQETMEDIDKNADGFIDLEEYIGDMYSHDGNTEPEWVKTEREQFVEF  
RDKNRDGMKDEETKDWILPSDYDHAEAEARHLVYESDQNKDGKLTKEEIVDKYDLFVGS  
QATDFGEALVRHDEF

>sp|Q9HC96|CAN10\_HUMAN Calpain-10 OS=Homo sapiens GN=CAPN10 PE=1 SV=2

MRARGATPARELFRDAAFPAADSSLFCDLSTPLAQFREDITWRRPQEICATPRLFPDDP  
REGQVQKQLLGDCWFLCACAALQKSRHLLDQVIPPGQPSWADQEYRGSFTCRIWQFGRWV  
EVTDDRLPCLAGRLCFSRCQREDVFWLPLLEKVYAKVHGSYHLWAGQVADALVDLTGG  
LAERNWLKGVAGSGGQQRPRGRWEHRTCRQLLHLKDQCLISCCVLSPRAGARELGEFHAF  
IVSDLRELQGGAGQCILLRIQNPWGRRCWQGLWREGGEGWSQVDAAVASELLSQLQEGE  
FWEEEEFLREFDELTVGYPVTEAGHLQSLYTERLLCHTRALPGAWVKQSAGGCRNNSG  
FPSNPKFWLRVSEPSEVYIAVLQRSRLHAADWAGRARALVGDSHTSWSPASIPGKHYQAV  
GLHLWKVEKRRVNLPRVLSMPVAGTACHAYDREVHLRCELSPGYYLAVPSTFLKDAPGE  
FLLRVFSTGRVSLAIRAVAKNTTPGAALPAGEWGTQVLRGSRVGTAGGSRNFASYPT  
NPCFPFSVPEGPGRVCRITLHQHCRPSDTEFHPIGFHIFQVPEGGRSQDAPLLLQEPL  
LSCVPHRYAQEVSRCLLPAGTYKVPSTYLPDTEGAFTVTIATRDRPSIHSQEMLGQF  
LQEVSIMAVMKT

>sp|Q6ZSI9|CAN12\_HUMAN Calpain-12 OS=Homo sapiens GN=CAPN12 PE=2 SV=1

MASSSGRVTIQLVDEEAGVGAGRLQLFRGQSYEAIRAACLDGILFRDPYFPAGPDALGY  
DQLGPDSEKAKGVKWMRPHEFCAEPKFCEDMSRTDVCQGS LGNCWFLAAAASLTLYPRL  
LRRVPPGQDFQHGAYGVFHFQLWQFGRWMDVVDDRLPVREGKLMFVRSEQRNEFWAPL  
LEKAYAKLHGSYEVMRGGHMNEAFVDFGTGGVGEVLYLRQNSMGLFSALRHALAKESLVGA  
TALSDRGEYRTEGLVKGHAYSITGTHKVFLGFTKVRLRLRNPWGCVETGAWSDSCPR  
WDTLPTECRDALLVKKEDGEFWMELRDFLLHFDTVQICLSPEVLGPSPEGGGWHVHTFQ  
GRWVRGFNSGGSQPNAETFWTNPQFRLTLLEPDEEDEDEEGPWGGWGAAGARGPARGGR



TPKCTVLLSLIQNRRLRAKGLTYLTVGFHFVQIPEELLGLWDSRSHALLPRLLRADR  
SPLSARRDVTRRCCLRPGHYLVVPSTAHAGDEADFTLRVFSERRHTAVEIDDVISADLQS  
LQGPYLPLELGLQLFQELAGEEEELNASQLQALLSIALEPARAHTSTPREIGLRTCEQL  
LQCFGHGQSLALHHFQQLWGYLLEWQAI FNKFDEDTSGTMNSYELRLALNAAGFHLNNQL  
TQTLTSRYRDSRLRVDFERFVSCVAHLTCIFCHCSQHLDGGEGVICLTHRQWMEVATFS  
>sp|Q9Y6W3|CAN7\_HUMAN Calpain-7 OS=Homo sapiens GN=CAPN7 PE=1 SV=1

MDATALERDAVQFARLAVQRDHEGRYSEAVFYKAAQALIYAEMAGSSLENIQEKITEY  
LERVQALHSAVQSKSADPLKSKHQLDLERAHFLVTQAFDEDEKENVEDAIELYTEAVDLC  
LKTSYETADKVLQNKLKQLARQALDRAEALSEPLTKPVGKISSTSVKPKPPVRAHFPLG  
ANPFLERPQSFISPQSCDAQGQRYTAEIEVLRTTSKINGIEYVPMNVDLRERFAYPMP  
FCDRWGKLPSPKQKTFQSKWVRPEDLTNNPTMIYTVSSFSIKQTI VSDCSFVASLAISA  
AYERRFNKKLITGIIYPQNKDGEPEYNPCGKYMVKLHLNGVPRKVIIDDQLPVDHKGELL  
CSYSNNKSELWVSLIEKAYMKVMGGYDFPGSNSNIDLHALTGWIPERIAMHSDSQTFSKD  
NSFRMLYQRFHKGDVLITASTGMMTEAEGEKWGLVPTHAYAVLDIREFKGLRFIQLKNPW  
SHLRWKGRYSENDVKNWTPELQKYLNFDPRTAQKIDNGIFWISWDDLCQYYDVIYLSWNP  
GLFKESTCIHSTWDAKQGPVKDAYSLANNPQYKLEVQCPQGGAAVWVLLSRHITDKDDFA  
NNREFITMVVYKTDGKKVYYPADPPYIDGIRINSPHYLTKIKLTPGTHFTLVVSQYE  
KQNTIHYTVRVYSACSFTFSKIPSPYTLKSRINGKWSGQSAGGCGNFQETHKNNPIYQFH  
IEKTGPLLIELRGPRQYSVGFEVTVSTLGDGPHGFLRKSSGDYRCGFCYLELENIPSG  
IFNIIPSTFLPKQEGPFFLDFNSIPIKITQLQ

>sp|P63098|CANB1\_HUMAN Calcineurin subunit B type 1 OS=Homo sapiens GN=PPP3R1 PE=1 SV=2  
MGNEASYPLEMCSHFDADEIKRLGKRFKKLDLDNSGSLSVEEFMSLPQLQNNPLVQRVID  
IFDTDGNGEVDKFEFIEGVSQFSVGDKKEQKLRFARIYDMDKDGYISNGELFQVLKMMV  
GNNLKDQTLQQIVDKTIINADKDGGRISFEFCAVVGGLDIHKMVMVDV

>sp|P40121|CAPG\_HUMAN Macrophage-capping protein OS=Homo sapiens GN=CAPG PE=1 SV=2  
MYTAIPQSGSPFGSVQDPGLHVWRVEKLKPVPAQENQGVFFSGDSYLVLHNGPEEVSH  
LHLWIGQQSSRDEQGACAVLAVHLNTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGG  
VESAFHKTSTGAPAAIKKLYQVKGKNIRATERALNWD SFNTGDCFILDGQNI FAWCGG  
KSNILERNKARDLALAI RDSERQGAQVEIVTDGEPAEMIQVLGPKPALKEGNPEEDLT  
ADKANAQAAALYKVSDATGQMNLTKVADSSPFALELLISDDCFVLDNGLCGKIYIWKGRK  
ANEKERQAALQVAEGFISRMQYAPNTQVEILPQGHESPIFKQFFKDWK

>sp|Q9UL45|BL1S6\_HUMAN Biogenesis of lysosome-related organelles complex 1 subunit 6  
OS=Homo sapiens GN=BLOC1S6 PE=1 SV=1  
MSVPGPSSPDGALTRPPYCLEAGEPTPLSDTSPDEGLIEDLTIEDKAVEQLAEGLLSHY  
LPDLQRSKQALQELTQNQVLLDTLEQEISKFKCHSMLDINALFAEAKHYHAKLVNIRK  
EMLMLHEKTSKLLKRALKLQKQKKEELEREQQREKEFEREKQLTARPAKRM

>sp|P62952|BLCAP\_HUMAN Bladder cancer-associated protein OS=Homo sapiens GN=BLCAP PE=1  
SV=1  
MYCLQWLLPVLLIPKPLNPALWFSHSMFMGFYLLSFLLERKPCTICALVFLAALFLICYS  
CWGNCFLYHCSDSPLPESAHDPGVVGT

>sp|Q7L3V2|BOP\_HUMAN Protein Bop OS=Homo sapiens GN=BOP PE=1 SV=1  
MPRGRCRQGGPRIPIWAAANYANAHPWQMDKASPGVAYTPLVDPWIERPCCGDTV CVRT  
TMEQKSTASGTCGGKPAERGPLAGHMPSSRPHRVDFCWVPGSDPGTFDGPWLLDRFLAQ  
LGDYMSFHFHYQDNISRVCEILRRLTGRAQAWAAPYLDGDLPLPDDYELFCQDLKEVVQ

DPNSFAEYHAVVTCPLPLASSQLPVAPQLPVVRQYLARFLEGLALDMGTAPRSLPAAMAT  
PAVSGSNSVSRSALFEQQLTKESTPGPKPPVLPSSSTCSSKPGPVEPASSQPEEAAPT  
PRLSEANPPAQRPDPAHPGGPKPKQTEEEVLETEGDQEVSLGTPQEVVEAPETPGEPPL  
SPGF

>sp|Q969J3|BORC5\_HUMAN BLOC-1-related complex subunit 5 OS=Homo sapiens GN=BORCS5 PE=1  
SV=1

MGSEQSSEAESRPNDLNSSVTPSPAKHRAKMDDIVVVAQGSQASRNVSNPDVVKLQEI  
TFQPLLKGLLSGQTSPTNAKLEKLDSSQVLQLCLRYQDHLHQCAEAVAFDQNALVKRIKE  
MDLSVETLFSFMQERQKRYAKYAEQIQKVNEMSAILRRIQMIGIDQTVPLLDRLNSMLPEG  
ERLEPFMSMKPDRELRL

>sp|Q9H3Q1|BORG4\_HUMAN Cdc42 effector protein 4 OS=Homo sapiens GN=CDC42EP4 PE=1 SV=1

MPILKQLVSSSVHSKRSRADLTAEIMISAPLGDFRHTMHVGRAGDAFGDTSFLNSKAGEP  
DGESLDEQPSSSSSKRSLLSRKFRGSKRSQSVTRGEREQRDMLGSLRDSALFVKNAMSLP  
QLNEKEAAEKGTSKLPKSLSSSPVKANDGEGGDEEAGTEEAVPRRNGAAGPHSPDPLD  
EQAFGDLTDLPVVPKATYGLKHAESIMSFHIDLGPSMLGDVLSIMDKEEWDPEEGEGGYH  
GDEGAAGTITQAPPYAVAAPPLARQEGKAGPDLPSLPSHALEDEGWAAAAPSPGSARSMG  
SHTTRDSSSLSSCTSGILEERSPAFRGPDRARAASVRQPDKEFSFMDEEEDEIRV

>sp|Q00587|BORG5\_HUMAN Cdc42 effector protein 1 OS=Homo sapiens GN=CDC42EP1 PE=1 SV=1

MPGPQGGGAATMSLGLSPVGWVSSSQGKRRLTADMISHPLGDFRHTMHVGRGGDVFGD  
TSFLSNHGGSSGSTHRSPRSFLAKKLQLVRRVGAPPRMASPPAPSPAPPAISPIIKNAI  
SLPQLNQAAAYDSL VVGKLSFDSSPTSSTDGHSSYGLDSGFCTISRLPRSEKPHDRDRDGS  
FPSEPLRRSDSLLSFRLLDLGPSLLSELLGVMSLPEAPAAETPAPAAANPPAPTANPTG  
PAANPPATTANPPAPAAANPSAPAAATPTGPAANPPAPAAASSTPHGHPNGVTAGLGPVAEV  
KSSPVGGGPRGPAGPALGRHWGAGWDGGHHYPEDARQERVEVLPQARASWESLDEEWRA  
PQAGSRTPVPSTVQANTFEFADAEEDDEVKV

>sp|Q8TDL5|BPIB1\_HUMAN BPI fold-containing family B member 1 OS=Homo sapiens GN=BPIFB1  
PE=1 SV=1

MAGPWTFTLLCGLLAATLIQATLSPTAVLILGPKVKEKLTQELKDHNATSILQQLPLLS  
AMREKPAGGIPVLGSLVNTVLKHIIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGF  
NTPLVKTIVEFHMTTEAQATIRMDTSASGPTRLVLSDCATSHGSLRIQLLHKLSFLVNAL  
AKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISLSIDRLEFDLLYPAIK  
GDTIQLYLGAKLLDSQGVTKWFNNSAASLTMTLDNIPFSLIVSQDVVKAABAVALSPE  
EFMVLLDSVLPESAHLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQL  
IVLEVFPSSSEALRPLFTLGIEASSEAQFYTKGDKLILNLNNISSDRIQLMNSGIGWFQPD  
VLKNIITEIIHSILLPNQNGKLRSQVPSLVKALGFEEAESSLTKDALVLTPASLWKPSS  
PVSQ

>sp|P59826|BPIB3\_HUMAN BPI fold-containing family B member 3 OS=Homo sapiens GN=BPIFB3  
PE=2 SV=2

MQPVMALWLLLLWGLATPCQELLETVGTLARIDKDELGKAIQNSLVGEPILQNVLGSV  
TAVNRGLLGSGGLGGGGLGHGGVFGVVEELSGLKIEELTLPKVLLKLLPGFGVQLSLH  
TKVGMHCSGPLGGLQLAAEVNVTSRVALAVSSRGTPILILKRCSTLLGHISLFSGLLPT  
PLFGVVEQMLFKVLPGLLCPVVDVSLGVVNELLGAVLGLVSLGALGSVEFSLATPLISN  
QYIELDINPIVKSAGDIIIDFKSRAPAKVPPKKDHTSQVMVPLYLFNTTFGLLQTNGAL  
DMDITPELVPSDVPLTTTDLAALLPEALGKPLHQQLLLFLRVREAPTVTLHNKKALVSL

PANIHVLFYVPKGTPESLFELNSVMTVRAQLAPSATKLHISLSLERLSVKVASSFTHAFD  
GSRLEEWLSHVVGAVYAPKLNVALDVGIPLPKVLNINFSNSVLEIVENAVVLTVAS

>sp|P59827|BPIB4\_HUMAN BPI fold-containing family B member 4 OS=Homo sapiens GN=BPIFB4  
PE=2 SV=2

MMMAWCVAALSVVAVCGTSHETNTVLRVTKDVLNAISGMLQQSDALHSALREVPLGVGD  
IPYNDHFHVRGPPPVYTNGKKLDGIYQYGHIEETNDNTAQLGGKYRYGEILESEGSIRDLRN  
SGYRSAENAYGGHRLGRLRYRAAPVGRHLRRELQPGEIPPGVATGAVGPGGLLTGGMLAA  
DGIAGQGGLGGGGLLDGGLGGGGVLGVLGEGGILSTVQGIGITGLRIVELTLPRVSVR  
LLPGVGYYLSLYTRVAINGKSLIGFLDIAVEVNITAKVRLTMDRTGYPRLVIERCDTLLG  
GIKVKLLRGLLPNLVDNLVNRVLADVLPDLLCPIVDVVLGLVNDQLGLVDSLIPGLILGS  
VQYTFSSPLVTGEFLELDLNTLVGEAGGLIDYPLGWPAVSPKPMPELPPMGDNTKSQL  
AMSANFLGSVLTLLQKQHALDLITNGMFEELPPLTTATLGALIPKVFQQYPESCLIIR  
IQVLNPPSVMLQKDKALVKVLATAEVMVSQPKDLETTICLIDVDTEFLASFSTEGDKLMI  
DAKLEKTSNLRTSNVGNFDIGLMEVLVEKIFDLAFMPAMNAVLGSGVPLPKILNIDFSN  
ADIDVLEDLLVLSA

>sp|P51587|BRCA2\_HUMAN Breast cancer type 2 susceptibility protein OS=Homo sapiens  
GN=BRCA2 PE=1 SV=3

MPIGSKERPTFFEIFKTRCNKADLGPISLNWFEELSSEAPPYNSEPAEESEHKNNNYEPN  
LFKTPQRKPSYNQLASTPIIFKEQGLTLPLYQSPVKELDKFKLDLGRNVPNSRHKSLRTV  
KTKMDQADDVSCPLLNSCLSESPVVLQCTHVTQQRDKSVVCGSLFHTPKFVKGRQTPKHI  
SESLGAEVDPDMSWSSSLATPPTLSSTVLIVRNEEASETVFPHDTTANVKSYSNHNDESL  
KKNDRFIASVTDSSENTNQREAASHGFGKTSNGSFKVNCKDHIGKSMPNVLEDEVYETVV  
DTSEEDSFSLCFSKCRTKNLQKVRTSKTRKKIFHEANADECEKSKNQVKEKYSFVSEVEP  
NDTDPLDSNVANQKPFESGSDKISKEVVPSSLACEWSQLTSLGLNGAQMEKIPLLHISSCD  
QNISEKDLLDTENKRKKDFTSENSLPRISLPKSEKPLNEETVVKRDEEQHLESHTDC  
ILAVKQAIISGTSPVASSFQGIKKSIFRIRESPKETFNASFSGHMTDPNFKKETEASESGL  
EIHTVCSQKEDSLCPNLIDNGSWPATTTQNSVALKNAGLISTLKKKTNKFIIAIIHDETSY  
KGKKIPKDQKSELINCSAQFEANAFEAPLTFANADSGLLHSSVKRSCSQNDSEPTLSLT  
SSFGTILRKCSRNETCSNNTVISQDLDYKEAKCNKEKLQLFITPEADSLSCLQEGQCEND  
PKSKKVSDIKEEVLAACHPVQHKSVEYSDTDFQSQKSLLYDHENASTLILTPTSKDVLS  
NLVMISRGKESYKMSDKLKGNNYESDVELTKNIPMEKNQDVCALNENYKNVELLPPEKYM  
RVASPSRKVQFNQNTNLRVIQKNQEETTSISKITVNPDSSELFSDNENNFVFQVANERNN  
LALGNTKELHETDLTCVNEPIFKNSTMVLYGDTGDKQATQVSIKKDLVYVLAENKNSVK  
QHIKMTLGQDLKSDISLNIDKIPEKNNDYMNKWAGLLGPISNHSFGGSFRTASNKEIKLS  
EHNIIKSKMFFKIDIEEQYPTSLACVEIVNTLALDNQKLSKPQSINTVSAHLQSSVVVSD  
CKNSHITPQMLFSKQDFNSNHNLTSPSQKAEITELSTILEESGSQFEFTQFRKPSYILQKS  
TFEVPENQMTILKTTSEECRADLHVIMNAPSIGQVDSKQFEGTVEIKRKFAGLLKNDK  
NKSASGYLTDENEVGFGRGFYSAHGTKLNVSTEALQKAVKLFSDIENISEETSAEVHPISL  
SSSKCHDSVVSFMFKIENHNDKTVSEKNNKCQLILQNNIEMTTGTTFVEEITENYKRNTENE  
DNKYTAASRNSHNLFEFGSDSSKNDTVCIHKDETDLLFTDQHNICLKLSGQFMKEGNTQI  
KEDLSDLTFLEVAKAQEACHGNTSNKEQLTATKTEQNIKDFETSDTFFQTASGKNISVAK  
ESFNKIVNFFDQKPEELHNFSLNSELHSDIRKNKMDILSYETDIVKHKILKESVPVGTG  
NQLVTFQGQPERDEKIKEPTLLGFHTASGKKVKIAKESLDKVKNLFDEKEQGTSEITSFS  
HQWAKTLKYREACKDLELACETIEITAAPKCKEMQNSLNNDKNLVSIIETVVPKLLSDNL

CRQTENLKTSKSI FLKVKVHENVEKETAKSPATCYTNQSPYVIENSALAFYTSCSRKTS  
VSQTSLL EAKKWLREGIFDGQPERINTADYVGNLYENNSNSTIAENDKNHLSEKQDTYL  
SNSSMSNSYSYHSDEVYND SGYLSKNKLD SGIEPVLKNVEDQKNTSFSKVISNVKDANAY  
PQTVNEDICVEELTSSSPCKNKNAAIKLSISNSNNFEVGPPAFRIASGKIVCVSHETIK  
KVKDIFTDSFSKVIKENNENKSKICQTKIMAGCYEALDDSEDILHNSLDNDECSTHSHKV  
FADIQSEEILQHNQNM SGLEKVS KISPCDV SLETS DICKCSIGKLHKS VSSANTCGIFST  
ASGKSVQVSDASLQNA RQVFSEIEDSTKQVFSKVL FKSNEHSDQLTREENTAIRTPEHLI  
SQKGFSYNVNVSSAFSGFSTASGKQVSILESSLHKVKGVL EEFDLIRTEHSLHYSPTS RQ  
NVSKILPRVDKRNPEHC VNSEMEKTC SKEFKLSNNLNVEGGSSENNHSIKVSPYLSQFQQ  
DKQQLVLGTKVSLVENIHVLGKEQASPKNVKMEIGKTETFS DVPVKTNIEVCSTYSKDSE  
NYFETEAVEIAKAFMEDDEL TDSKLPSHATHSLFTCPENEEMVLSNSRIGKRRGEPLILV  
GEPSIKRNL LNEFDRIIENQE KSLKASKSTPDGTIKDRRLFMHHSLEPITCVPFRTTKE  
RQEIQNPNTAPGQEFLSKSHLYEHLTLEKSSSNLAVSGHPFYQVSATRNEKMRHLITTG  
RPTKV FVPF KTKSHFHRVEQCVRNINLEENRQKQNI DGHGSDDSKNKINDNEIHQFNKN  
NSNQAAAVTFTKCEEEPLDLITSLQNARDIQDMRIKKKQRQRFVPPQGS LYLAKTSTLPR  
ISLKA AVGGQVPSACSHKQLYTYGVSKHC IKINSKNAESFQFHTEDYFGKESLWTGKGIQ  
LADGGWLIPSN DGKAGKEEFYRALCDTPGVDPKLISRIWVYNHYRWIIWKLAAMECAFPK  
EFANRCLSPERVLLQLKYRYDTEIDRSRRSAIKKIMERDDTA AKTLVLCVSDIISLSANI  
SETSSNKTSSADTQKVAIIELTDGWYAVKAQLDP LLAVLKNGR LTVGQKIILHGAE LVG  
SPDACTPLEAPES LMLKISANSTRPARWYTKLGFFPDPRPFPLPSSLFS DGGNVGCV DV  
IIQRAYPIQWMEKTSSGLYIFRNEREEKEAAKYVEAQQKRLEALFTKI QEEFEEHEENT  
TKPYLPSRALTRQQVRALQDGAELYEAVKNAADPAYLEGYFSEEQLRALNNHRQMLNDKK  
QAQIQLEIRKAMESAEQKEQGLSRDVTTVWKL RIVSYSKKEKDSVILSIWRPSSDLYSLL  
TEGKRYRIYHLATSKSKSKSERANIQLAATKKTQYQQLPV SDEILFQIYQPREPLHFSKF  
LDPDFQPSCSEVDLIGFVVS VVKKTGLAPFVYLSDECYNLLAIKFWIDLNEDI IKPHMLI  
AASNLQWRPESKSGLLTLFAGDFS VFSASPKEGHFQETFNKMKN TVENIDILCNEAENKL  
MHILHANDPKWSTPTK DCTSGPYTAQIIIPGTGNKLLMSSPNCEIYYQSPLSLCMAKRKSV  
STPVSAQMTSKSKCKEKEIDDQKNCKRRALDFLSRLPLPPVSP ICTFVSPA AQKAFQP  
PRSCGTYETPIKKKELNSPQMTPFKKFNEISLLESNSIADEELALINTQALLSGSTGEK  
QFISVSESTRTAPTSS EDYLR LKRRCTTSLIKEQESSQASTEECEKNKQDTITTKKYI

>sp|Q9NPI1|BRD7\_HUMAN Bromodomain-containing protein 7 OS=Homo sapiens GN=BRD7 PE=1 SV=1

MGKKHKKHKS DKLHLYEEYVEKPLKLVLVGGNEVTELSTGSSGHDS SLFEDKNDHDKHKD  
RKRKKRKKG EKQIPGEEKGRKRRRVKEDKKKRDRDRVENEAEKDLQCHAPVRLDLPPEKP  
LTSSLAKQEEVEQTPLQEALNQLMRQLQRKDPSAFFSFPVTDFIAPGYSMIIKHPMDFST  
MKEKIKNNDYQSIEELKDNFKLMCTNAMIYNKPETIYYKAAKLLHSGMKILSQERIQSL  
KQSIDFMADLQKTRKQKDGTDTSQSGEDGGCWQREREDSGDAEAHAFKSPSKENKKKDKD  
MLEDKFKSNNLEREQEQLDRIVKESGGKLTRRLVNSQCEFERRKPDGTTTLGLLHPVDPI  
VGEPGYCPVRLG MTTGRLQSGVNTLQGFKEDKRNVTPVLYLNYGPYSSYAPHYDSTFAN  
ISKDDSDLIYSTYGEDSDLPSDFS IHEFLATCQDYPYVMADSLLDVLTKGGHSRTLQEME  
MSLPEDEGHTRTLDTAKEMEITEVEPPGR LDSSTQDRLIALKAVTNFGVPVEVFDSEAE  
IFQKKLDETRLLRELQEAQNERLSTRPPPNMICLLGPSYREMH LAEQVTNNLKELAAQV  
TPGDIVSTYGV RKAMGISIPSPVMENN FVDLTEDTEEPKKT DVAECGPGGS

>sp|Q5VTR2|BRE1A\_HUMAN E3 ubiquitin-protein ligase BRE1A OS=Homo sapiens GN=RNF20 PE=1 SV=2

MSGIGNKRAAGEPGTSMPEKKAAVEDSGTTVETIKLGGVSSTEELDIRTLQTKNRKLAE  
MLDQRQAIEDELREHIEKLERRQATDDASLLIVNRYWSQFDENIRIILKRYDLEQGLGDL  
LTERKALLVPEPEPDSNQRKDDREREGEQEPAFSFLATLASSSSEEMESQLQERVES  
SRRVVSQIVTVYDKLQEKVELLSRKLNSGDNLIVEEAVQELNSFLAQENMRLQELTDLLQ  
EKHRTMSQEFQSKLQSKVETAESRVSVLESMDLQWDIDKIRKREQRLNRHLAEVLERN  
SKGYKVVYAGSSLYGGTITINARKFEEMNAELEENKELAQNRLCELEKLRQDFEETVTON  
EKLKVELRSQVQVETPEYRCMQSQFSVLYNESLQLKAHLDEARTLLHGTRGTHQHVV  
ELIERDEVSLHKKLRTEVIQLEDTLAQVRKEYEMLRIEFQTLAANEQAGPINREMRHLI  
SSLQNHNLKLGKQVLRKRLREASDLNKTRLRSGSALLQSQSSTEDPKDEPAELKPDS  
EDLSSQSSASKASQEDANEIKSKRDEEERERERREKEREREREREKEKEREREREKQKLKES  
EKERDSAKDKEKGKHDGGRKKEAEIKQLKIELKKAQESQKEMKLLDMYRSAPKEQRDK  
VQLMAAEKSKAELEDLRQLKDLEDKEKKENKMADEDALRKIRAVEEQIEYLQKKLAM  
AKQEEALLSEMDVTGQAFEDMQEQNIRLMQQLREKDDANFKLMSEIKSNQIHKLLKEE  
KEELADQVLTLTQVDAQLQVVRKLEEKHLLQSNIGTGEKELGLRTQALEMNRKAMEA  
AQLADDLKAQLELAQKKLHDFQDEIVENSVTKEKDMFNFKRAQEDISRLRRKLETTKKPD  
NVPKCEILMEEIKDYKARLTCPCCNMRKKDAVLTKCFHVFCFECVKTRYDTRQRKCPKC  
NAAFGANDFHRIYIG

>sp|Q9NXR7|BRE\_HUMAN BRCA1-A complex subunit BRE OS=Homo sapiens GN=BRE PE=1 SV=2

MSPEVALNRISPMLSPFISSVVRNGKVGLDATNCLRITDLKSGCTSLTPGPNCDFKLHI  
PYAGETLKWDIIFNAQYPELPPDFIFGEDAEFLPDPSALQNLASWNPSNPECLLLVVKEL  
VQQYHQFQCSRLRESSRLMFEYQTLLEEPQYGENMEIYAGKKNWTGEFSARFLLKLPVD  
FSNIPTYLLKDVNEDPGEDVALLSVSFEDTEATQVYPKLYLSPRIEHALGGSSALHIPAF  
PGGGCLIDYVPQVCHLLTNKVQYVIQGYHKRREYIAAFLSHFGTGVVEYDAEGFTKLTL  
LMWKDFCFLVHIDLPLFFPRDQPTLTFQSVYHFTNSGQLYSQAQKNYPYSPRWDGNEMAK  
RAKAYFKTFVPQFQEAFAFANGKL

>sp|O95415|BRI3\_HUMAN Brain protein I3 OS=Homo sapiens GN=BRI3 PE=2 SV=1

MDHKPLLQERPPAYNLEAGQGDYACGPHGYGAIPAAPPPPPYPYLVGTGIPTHHPRVYNIH  
SRTVTRYPANSIVVVGCPVCRVGVLEDCFTFLGIFLAIILFPFGFICCFALRKRRCPNC  
GATFA

>sp|Q6PL45|BRID5\_HUMAN BRICHOS domain-containing protein 5 OS=Homo sapiens GN=BRID5 PE=1  
SV=3

MEPASCAERPKPGPTGVKTKPSCGGWRAVSLLLLLLLLLVLAAGVVAGGLGSAQGPPK  
PRLQTLRMTLPSHPMPRNQITLVDVARNAATITVTPQSNHSAVLFDGQSGCICYRPE  
EHQVCFLRLMEDSDRETLLVDTSKVQEAQWVPSQDTHHTQELLAVQGSLEVDPAGAGAL  
VQRLCMRTPIYWARRAEGESGLWGWKARPSGWFEELGAEPLEIHGTLATGPRRQRLIYLC  
IDICFPSNICVSVCFYLLPD

>sp|Q5VW32|BROX\_HUMAN BRO1 domain-containing protein BROX OS=Homo sapiens GN=BROX PE=1  
SV=1

MTHWFHRNPLKATAPVSFNYYGVVTGPSASKICNDLRSSRARLLELFTDLSCNPEMMKNA  
ADSYFSLQGFINSDESTQESKLRYIQNFKWTDTLQGQVPSAQQDAVFELISMGFNVAL  
WYTKYASRLAGKENITEDEAKEVHRSKIAAGIFKHLKESHLPKLITPAEKGRDLESRLI  
EAYVIQCQAEAEVETIARAIELKHAPGLIAALAYETANFYQKADHTLSSLEPAYSARKWK  
YLHLKMCFYTAYAYCYHGETLLASDKCGEAIIRSLQEAELKLYAKAEALCKEYGETKGPPT  
VKPSGHLFFRKLGNLVKNTLEKQRENGFIYFQKIPTEAPQLELKANYGLVEPIPFEPFP

TSVQWTPETLAAFDLTKRPKDDSTKPKPEEEVKPVKEPDIKPQKDTGCIYS

>sp|Q9NW68|BSDC1\_HUMAN BSD domain-containing protein 1 OS=Homo sapiens GN=BSDC1 PE=1 SV=1  
MAEGEDVGWWSWLQSSYQAVKEKSSEALEFMKRDLTEFTQVVQHDTACTIAATASVVKE  
KLATEGSSGATEKMKGLSDFLGVISDTFAPSPDKTIDCDVITLMGTPSGTAEPYDGTKA  
RLYSLQSDPATYCNEDGPPPELFDWLSQFCLEEKKEISELLVGSPSIRALYTKMVPAA  
VSHSEFWHRYFYKVHQLQEQARRDALKQRAEQSISEEPGWEEEEELMGISPISPKEAK  
VPVAKISTFPEGEPGPQSPCEENLVTSVEPPAEVTPSESESISLVTQIANPATAPEARV  
LPKDLSQKLLEASLEEQGLAVDVGTPSPPIHSKPLTPAGHTGGPEPRPPARVETLREE  
APTDLRVFEINSDSGKSTPSNNGKKSSTDISEDWEKDFDLDMTEEEVQMALSKVDASGE  
LEDVEWEDWE

>sp|Q9Y2F9|BTBD3\_HUMAN BTB/POZ domain-containing protein 3 OS=Homo sapiens GN=BTBD3 PE=2  
SV=1

MVDDKEKNMKCLTFFLMLPETVKNRSKSSKKANTSSSSSNSSKLPPVCYEIITLTKKK  
KMAADIFPRKKPANSSSTSVQQYHQQLSNNLIPAPNWGLYPTIRERNAMMFNDLMA  
DVHFVVGPPGGTQRLPGHKYVLAVGSSVFHAMFYGELAEDKDEIRIPDVEPAAFLAMLKY  
IYCDEIDLAADTVLATLYAAKKYIVPHLARACVNFLETSLSAKNACVLLSQSCLFEEPDL  
TQRCWEVIDAQAEALALKSEGFCDIDFQTLESILRRETNAKEIVVFEALNWAEEVCQRQ  
DLALSINERKVLGKALYLIRIPTMALDDFANGAAQSGVLTNETNDIFLWYTAACKPEL  
QFVSKARKGLVPQRCHRFQSCAYRSNQWRYRGRCDSIQFAVDKRVFIAGFGLYGSSCGSA  
EYSAKIELKRQGVVLGQNLKSYFSDGSSNTFPVWFEPVQIEPDTFYTASVILDGNELSY  
FGQEGMTEVQCGKTVQFQCSSDSTNGTGVQGGQIPELIFYA

>sp|A6QL63|BTBD11\_HUMAN Ankyrin repeat and BTB/POZ domain-containing protein BTBD11  
OS=Homo sapiens GN=BTBD11 PE=2 SV=3

MARRGKKPVVRTLEDLTLD SGYGAADSVRSSNLSLCCSDSHPASPYGGSCWPPLADSMH  
SRHNSFDTVNTALVEDSEGLDCAGQHCSRLLPDLDEVPWTLQELEALLRSRDPRA  
PGGLPKDALAKLSTLVSRALVRIAKEAQLSLRFAKCTKYEIQSAMEIVLSWGLAAHCTA  
AALAALSLYNMSSAGDRLGRGKSARCGLTFSVGRVYRWMVDSRVALRIHEHAAIYLTAC  
MESLFRDIYSRVASGVPRSCSGPGSGSGPGPSSGPGAAPAADKEREAPGGGAASGGA  
CSAASSASGGSSCCAPAAAAA VPPAAAAHHHHHHHHALEAPKFTVETLEHTVNNDSE  
IWGLLPYQHLICGNASGVLCLPDSLNLHRDPQRSNKPGE LPMFSQSELRTIEQSLLAT  
RVGSIAELSDLVSRAMHHLQPLNAKHGNGTPLHHKQGALYWEPEALYTLCYFMHCPQME  
WENPNVEPSKVNQLVERPFLVPLMEWIRVAVAHAGHRRSFSMDSDDVRQAARLLLPV  
DCEPRQLRADD CFCASRKLDVAIEAKFKQDLGFRMLNCGRTDLVKQAVSLLGPDGINTM  
SEQGMTPLMYACVRGDEAMVQMLLDAGADLNVEVVSTPHKYPSVHPETRHWTALTFVLH  
GHIPVVQLLLDAGAKVEGSVEHGEENYSETPLQLAAVGNFELVSLLLERADPLIGTMY  
RNGISTTPQGMNSFSQAAAHGHRNVFRKLLAQPEKEKSDILSLEEILAEGTDLAETAPP  
PLCASRNSKAKLRALREAMYHSAEHGYVDVTIDIRSIGVPWTLHTWLESLRIAFQQHRRP  
LIQCLLKEFKTIQEEYTEELVTQGLPLMFEILKASKNEVISQQLCVIFTHCYGPYPIPK  
LTEIKRKQTSRLDPHFLNNKEMSDVTFLVEGRPFYAHKVLLFTASPRFKALLSSKPTNDG  
TCIEIGYVKYSIFQLVMQYLYGGPESLLIKNNEIMELLSAAKFFQLEALQRHCEIICAK  
SINTDNCVDIYNHAKFLGVTELSAYCEGYFLKNMMVLIENEAFKQLLYDKNGEGTGQDVL  
QDLQRTLAIRIQSIHLSSSKGSVV

>sp|P62324|BTG1\_HUMAN Protein BTG1 OS=Homo sapiens GN=BTG1 PE=1 SV=1  
MHPFYTRAATMIGEIAAAVSFISKFLRTKGLT SERQLQTFSSQLQELLA EHYKHHWFPEK

PCKSGYRCIRINHKMDPLIGQAAQRIGLSSQELFRLLPSELTLWVDPYEVSYRIGEDGS  
ICVLYEASPAGGSTQNSTNVQMVDSRISCKEELLGRTSPSKNYNMMTVSG

>sp|P78543|BTG2\_HUMAN Protein BTG2 OS=Homo sapiens GN=BTG2 PE=1 SV=1

MSHGKGTDMLEIAAAVGLSSLLRTRGCVSEQRLKVFSGALQEALTEHYKHHWFPEKPS  
KSGYRCIRINHKMDPIISRVASQIGLSQPQLHQLLPSELTLWVDPYEVSYRIGEDGSIC  
VLYEEAPLAASCGLLTCKNQVLLGRSSPSKNYVMAVSS

>sp|Q9UIR0|BTNL2\_HUMAN Butyrophilin-like protein 2 OS=Homo sapiens GN=BTNL2 PE=2 SV=1

MVDFPGYNLSGAVASFLFILLTMKQSEDFRVIGPAHPILAGVGEDALLTCQLLPKRRTMH  
VEVRWYRSEPSTPVFVHRDGVETEMQMEEYRGWVEWIEAGIAGNVALKIHNIQPSDNG  
QYWCHFQDGNYCGETSLLLKVAGLGSAPSIHMEGPGESGVQLVCTARGWFPEPQVYWEDI  
RGEKLLAVSEHRIQDKDGLFYAEATLVVRNASESVSCLVHNPLVTEEKGSVISLPEKLQ  
TELASLKVNGPSQPIILVRVGEDIQLTCYLSPKANAQSMVWRDRSHRYPAVHVYMDGDHV  
AGEQMAEYRGRTVLVSDAIDEGRLTLQILSARPSDDGQYRCLFEKDDVYQEASLDLKVVS  
LGSSPLITVEGQEDGEMQPMCSSDGWFPQPHVPWRDMEGKTIPSSSQALTQGSGLFHVQ  
TLRVTNISAVDVTCISIPFLGEEKIATFSLSGW

>sp|Q6UX41|BTNL8\_HUMAN Butyrophilin-like protein 8 OS=Homo sapiens GN=BTNL8 PE=1 SV=1

MALMLSLVLSLLKLGSQWQVFGPDKPVQALVGEDAAAFSCFLSPKTNAEAMEVRFFRGQF  
SSVHLYRDGKDQPFMQMPQYQGRTKLVKDSIAEGRISLRLENITVLDAGLYGCRISQS  
YYQKAIWELQVSALGSVPLISITGYVDRDIQLLCQSSGWFPRPTAKWKGPQGDLSTDSR  
TNRDMHGLFDVEISLTVQENAGSISCSMRHAHLSREVESRVQIGDTFFEPISWHLATKVL  
GILCCGLFFGIVGLKIFFSKFQWKIQAELDWRRKHGQAEALRDARKHAVEVTLDPETAHPK  
LCVSDLKTVTHRKAQEVPHSEKRFTRKSVVASQSFSQAGKHYWEVDGGHNKRWRVGVCRD  
DVDRRKEYVTLSPDHGYVWLRLNGEHLIFTLNPRFISVFPRTPTKIGVFLDYECGTISF  
FNINDQSLIYTLTCRFEGLLRPYIEYPSYNEQNGTPIVICPVTQESEKEASWQRASAIPE  
TSNSESSSQATTPFLPRGEM

>sp|Q7Z5L3|C1QL2\_HUMAN Complement C1q-like protein 2 OS=Homo sapiens GN=C1QL2 PE=2 SV=2

MALGLLIAVPLLLQAAPRGAAHYEMMGTCRMICDPYTAAPGGEPPGAKAQPFGPSTAALE  
VMQDLSANPPPIQGPKGDPGRPGKPGPRGPPGEPGPPGPRGPPGEGKDSGRPGLPGLQ  
LTAGTASGVGVGGGAGVGGDSEGEVTSALSATFSGPKIAFYVGLKSPHEGYEVLKFDDV  
VTNLGNHYDPTTGKFSQVRGIYFFTYHILMRGGDGTSMWADLCKNGQVRASAIQDADQ  
NYDYASNSVVLHLDSGDEVYVKLDGGKAHGGNNNKYSTFSGFLLYPD

>sp|Q96MC4|C295L\_HUMAN CEP295 N-terminal-like protein OS=Homo sapiens GN=CEP295NL PE=2  
SV=1

MCSGWSSSVIWRHTQFAVERCGFCGSSGPGAPLEPSTLGSKHLPWEAVSAGFADRNRNMD  
GAMWLSLCPDNEDLLWRKKHLLQARGKGDALQRRADAKLWKNYQLQLAEELRRGYQE  
AQHLHVGGDLRLQSARLLGWGGGRARENEPDSQGPIQRRSARPPRAKEKHRAALSEERSC  
REELGQQHPRHSRPRKTAASPEKPQTTKATGRMNHLAPPEKRRKGRPEPSTKSGGRCIAI  
HPRRSKGADLERSNPLVAAVGEIGLVEEKEKGTARAGRRQLGKGAFCVFPALTSTRSQGQS  
LEGKLRDLGQLWPADSSCREAVSPASQCTLREKNKWQKELELAFEELFNINRKLKKHLC  
LYLALKPRMDQRPGEHAFSEMQECCAGTPRGKKMADPEMLPAGEPRSPAEEEEQAASK  
TDLKTFMGKAQNQKYQGTVPKPTRNGSQTLSPEAGIFINKEDSLYSTESGQETPKLGT  
AEGSLQLHLQDQADRVGSTASRQRQAEMEQRQKQLESLEQMEHPDMSLEIHYKAELEK  
ERREQRRARLAHLKSSSTRAQERERGSSELSTSPSGTSLADDDRHSQMIRDQQQILQQN  
RLHKQFLEEARKCLREFQNIC

>sp|Q8TF44|C2C4C\_HUMAN C2 calcium-dependent domain-containing protein 4C OS=Homo sapiens  
GN=C2CD4C PE=1 SV=2

MRKTNMWFLERLRSGSENGAARGVGSEAGDKASKGPLYSNVLTDPKIPDFFIPPKLPSPG  
AEGEGQAALGPSTSEQNLAASAAPRQTPRSPRLPAKLAESKSLKAATRHVIQIESAEDW  
LSEEATDADPQAQGAMSLPSVPAQTSYGFAMLAESPHTRRKESLFHSEHGALAQVGSFG  
AGRRRAAAKANGDGGPREAGGALMSPGRYFSGGESDTGSSAESSPFGSPLLSRVSLLK  
GFAQDSQAKVSQLRHSVGRHGSLSADDSTPDASPGSRRRLTRRAPPEGPESGQARGEHT  
VHVGPGRGVRLLAEYEAGQARLRVHLLAAEGLYDRLCDARSINCCVGLCLVPGKLKQKRS  
TIVKNSRRPVFNEDFFFDGLGPASVRKLALRIKVVNKGSSSLKRDITLLGEKELPLTSLLPF  
L

>sp|Q4AC94|C2CD3\_HUMAN C2 domain-containing protein 3 OS=Homo sapiens GN=C2CD3 PE=1 SV=4

MKQRKGQSGSGSRGRKKRGLSDISPSTSLPPLVEGQLRCFLKLTVNRIWKIAKPPTCVL  
VRVRWWGETSDGTLFCPRDALQTEPKAVRTTTRYAIRCQPKQFTSYLTDMAVLVLEVITK  
LDGLPIGRVQINGLAQLSPTHQINGFFTIVSSTSKKLQVSLALEPLSETYDSYHPLP  
TTDMTENVLLSKQGFRENTPESTQFQVPSRPRDIHTIKIDGKELAAANSSRSTTPRGKD  
VCFAENPDTIKDSSFGQLHSLNSGQSLESVTLKGRAPRKQMSLLNSSEFQPIRTVAKSH  
SDSCILSSNNLPTKDLLSALLEQGNKLNRNAMVISAMKSSPETSMLLDQVHPPINEDSLRA  
STQIRAFSRNRFKDHIEDHLLPSTENTFWRHDTKADTRAIQLLLGSAELSQGNFWDGLGS  
PPDPSPPGSDVYCISELNDPQYDQSLLENLFYTAPKSDTISDFLSEEDDIVPSKKISQS  
TALARSSKVLESSDHKLKRSAGKRNRNLVEQQMLSETPEDAQTMTLSVDRLALLGRTHS  
VRII IETMGVPPDSPQMTPGKKSAGPPPKVTTAKKRTFFVEYHFPVGFSESLGKTALI  
TEVVRASSKITDGKVKFQQRFPVQFGGPMIEHWWNSNLTFQIYVKKTPQKKPEVIGS  
VLSLRAVIQSELLSFSDQLPVQQENGQSPFGPLKVTMELITDNKDFGTINTKLSGNTHY  
TPLCAPTSPNKALPELNQDMTCTKNPQNLNQHIEETAKKAQNLVLPNRKSPSPVAPHPST  
FVATPASHNLVNQTNGTTKESALLHVLMLVPDGKDFISGESEKQSPCNVYLNCKLFSTE  
EVTRSVIAWGTTQPVFNFSQVIPVSLSSKYLERLKNVMVETWKNVRSPPGQDKLLGLVK  
LPLHQFYMSFKDAKISRLLDAQYPVVAVDSYMPVIDVFSGHQNGSLRVFLAMGSSNQIM  
ALQRLKNEEGTLPFSPRPAHFLDQPTAASVAMAEDRGNGLMEHCFEIHIEVMKGLAPLQ  
ATVWGEADCYVQYFPVQHSQSSVLKGPEFLENGITLKPFRATTLCVPDPFIFNSEHHHS  
LLLPAEVPVQRLLLSAFSAQGLVPGGGVQFEIWCRIYYPNVRDQKQVAKGTLPLSRICAMV  
TTQHREVDVGIQTFNLPLTPRIENRKELRNQSSGLLDVGLRYRRSPRTAEGVLAARTVSIS  
VQIIRACGLQAAAKALAEREPALQFSATVGNASVTTHLSFLPQGEQRRTHPVACSFCE  
FSHHVEFTCNLVTQHCSGEACFLAELLEFAEVIFAVYHENTKSASDIISIESCKEYLLGV  
VKVPTKELLIKRSGITGWYPIILPEDGGLPHGLELMQKIVGGLELSISFTHRGDRERVLE  
AAEHLGWSFENSLKDFVRMDEGEPTVTISTPRLWLP IHCVLLAGHNH IHNKNTCYLRYK  
FYDHEAFWTPKKPKESVNKKQIMVTFKASKRAEVTTRGPSLLWYFREERLEIQVWRAYGN  
DSVERPHQTD SWIGSAYVDLARLGERSARTLTVSGVYPLFGRNASNLGAALRVHVLSS  
LSSHLEPTHELDSMDCSSHSESEQLPRRNDVQLSPPEVISCHQKSPASTQVPCSSTAE  
VRLTQEGPADLDGTFAVSILVERAMHLSLKGSP LTERKVSIPSCCVSFATADESSPVYTQ  
VVENTDSP IWNFQQQSRLSKELLLDPQQLVFKVWHKGDEERVIGFASVDLSPLLSGFQF  
VCGWYNITDFSGECQGQIKVAVSPLESLIHFKEERQARRGVETSKSLIPIYSPFSFPASD  
TYAAFSSHMARQTL DQLAHASSKELDFSSPGRSDTTRSQASRHEEHVQNIIRRFHESLHLQ  
GEAPLPCDDKLTTSPLSSQTSILTSRLKNLSELDQIQRYFRQKLT KPFLPLSPQTQTATIS  
QHQESCRDHLGPGASSLDPGSQCILEKSSNLVLQVSSLITDLQTI TRDSQAALSSHRARS



RSNKATTLPAQDTEALQERCTMPDEPLVRAPDKGTDSPSPPLEETSNGGRMLHESLRH  
AVPITRMQSSSEDTEAGPAYSDDEDYEEDIIEPRTLNEITTVTDKTSWSSVISDTSEVISP  
QPDEVQREGPSCSPGPFCEELMVKSSFLSSPERAVNPHLPRQGSPSQSLVACECEASK  
ARVGGESASANPQIPCPITLSGAQQSSTFVGWSSPQTDQNKPKSEAPAENEAATSELGD  
SADSFKKLPLNLASQSRRENHKGPPIDSSDIRQRQVTTGSETSTKQSLLLPGPVIVPNFF  
LPPQQLEASLRMLSATLPPAATTDQDKSEATRGALSQRPCRPRPNSLPLNLPEEETLR  
IARIFSSQYSQKD

>sp|B7Z1M9|C2D4D\_HUMAN C2 calcium-dependent domain-containing protein 4D OS=Homo sapiens  
GN=C2CD4D PE=2 SV=2

MWLLEKAGYKVGAAEPAARWAPSGLFSKRRAPGPPTSACPNVLTDPRIQFFIPRLPDP  
GGAVPAARRHVAGRGLPATCSLPHLAGREGWAFLPESPHTRRRESLFHGPPAPAGGLPA  
AQSRHLVSAFDLRLCRAPSDTASSPDSSPFGSPRGLGRRRVSRPHLSPEKASSADTS  
PHSPRRAGPPTPPLFHLDFLCCQLRPTRESVLRLGPRGGQLRLSTEYQAGPGRLRLVLS  
AEGLPRPRSRPGSGGGGCCVVLRLRPRVRPREQQSRVVKCSANPIFNEDFFFDGLGPPDL  
AARSLRAKVLDRGAGLRDVLGECETPLIALLPGLGGGLGPGSSLAPTHLSL

>sp|Q9H0H9|C4F30\_HUMAN Putative cytochrome P450 family member 4F30 OS=Homo sapiens  
GN=CYP4F30P PE=5 SV=1

MVTPAGCLGGRNQGPRIEIPGTAFFCSSRAGQTGQAVSGAQVSSWRERQPFGGSRGPLHIL  
GTDGNVDTTGKLGVLPTPPRIQKETKQALCGMKPPFLPEALLTVWWLPFVAVSLCLF

>sp|Q8N8Q1|C56D1\_HUMAN Cytochrome b561 domain-containing protein 1 OS=Homo sapiens  
GN=CYB561D1 PE=2 SV=1

MQPLEVGLVPAPAGEPRLTRWLRRGSGILAHVLALGFTIFLTALSRPGTSLFSWHPVFMA  
LAFCLCMAEAILFSPEHSLFFFCSRKARIRLHWAGQTLAILCAALGLGFIISSRTRSEL  
PHLVSWHSWVGALTLLATAVQALCGLCLLCPRAAVSRVARLKLYHLTCGLVVYLMATVT  
VLLGMYSVWFQAQIKGAAYLCLALPVYPALVIMHQISRSYLPKMKMEM

>sp|Q9P296|C5AR2\_HUMAN C5a anaphylatoxin chemotactic receptor 2 OS=Homo sapiens GN=C5AR2  
PE=1 SV=1

MGNDVSYSYEGDYSLSDRPVDCLDGACLAIDPLRVAPLPLYAAIFLVGVPGNAMVAWVA  
GKVARRRVGATWLLHLAVADLLCCLSLPILAVPIARGGHWPYGAVGCRALPSIILLTMYA  
SVLLLAALSADLCFLALGPAWWSTVQRACGVQVACGAATLALLTVPSAIYRRLHQEHF  
PARLQCVVDYGGSSSTENAVTAIRFLFGFLGPLVAVASCHSALLCWAARRCRPLGTAIVV  
GFFVCWAPYHLLGLVLTVAAPNSALLARALRAEPLIVGLALAHSCNLMFLYFGRAQLR  
RSLPAACHWALRESQGQDESVDKSKSTSHDLVSEMEV

>sp|Q13698|CAC1S\_HUMAN Voltage-dependent L-type calcium channel subunit alpha-1S OS=Homo sapiens  
GN=CACNA1S PE=1 SV=4

MEPSSPQDEGLRKKQPKKPVPEILPRPPRALFCLTLENPLRKACISIVEWKPFETIILLT  
IFANCVLAVYLPMPEDDNNLSNLGLEKLEYFFLIVFSIEAMKIIAYGFLFHQDAYLRS  
GWNVLDFTIVFLGVFTVILEQVNVIIQSHTAPMSSKGAGLDVKALRAFRVLRPLRLVSGVP  
SLQVVLNSIFKAMLPLFHIALLVLFMVIYAIIGLELFGKGMHKTCYFIGTDIVATVENE  
EPSPCARTGSGRRCTINGSECRGGWPGPNHGITHFDNFGFSMLTVYQCITMEGWTDVLYW  
VNDAIGNEWPIYFVTLILLGSFFILNLVLGLVSGEFTKEREKAKSRGTFQKLREKQQLD  
EDLRGYMSWITQGEVMDVEDFREGKLSLDEGGSDTESLYEIALGNKIIQFIRHWRQWNRI  
FRWKCHDIVKSKVFYWLVLIVALNTLSIASEHHNQPLWLTRLQDIANRVLLSLFTTEML  
MKMYGLGLRQYFMSIFNRFDCEVVCSGILEILLVESGAMTPLGISVLRICIRLLRIFKITK

YWTSLSNLVASLLNSIRSIASLLLLFLFIVIFALLGMQLFGGRYDFEDTEVRRSNFDNF  
PQALISVFQVLTGEDWTSMYNGIMAYGGPSYPGMLVCIYFIILFVCGNYILLNVFLAIA  
VDNLAEAESLTSQAQAKAEKKRRKMSKGLPDKSEEEKSTMAKKLEQKPKGEGIPTAKL  
KIDEFESNVNEVKDPYPSADFPGDDEDEPEIPLSPRPRPLAELQLKEKAVPIPEASSFF  
IFSPTNKIRVLCHRIVNATWFTNFILLFILLSSAALAAEDPIRADSMRNQILKHFDIGFT  
SVFTVEIVLKMTTYGAFLHKGSFRCRNYFNMLDLLVAVSLISMGLESSAISVVKILRVLR  
VLRPLRAINRAKGLKHVVQCMFVAISTIGNIVLVTTLQFMFACIGVQLFKGKFFRCTDL  
SKMTEEECRGYYYYYKDGDPMQIELRHREWVHSDHFHDNVL SAMMSLFTVSTFEGWPQLL  
YKAIDSNADVGPIYNNRVEMAIFFIIYIILIAFFMMNIFVGFVIVTFQEQQGETEYKNCE  
LDKNQRQCVQYALKARPLRCYIPKNPYQYQVWYIVTSSYFEYLMFALIMLNTICLGMQHY  
NQSEQMNHISDILNVAFTIIFTLEMILKLMAFKARGYFGDPWNVDFDLIVIGSIIDVILS  
EIDTFLASSGGLYCLGGGCGNVDPDESARISSAFFRLFRVMRLIKLLSRAEGVRTLLWTF  
IKSFQALPYVALLIVMLFFIYAVIGMQMFGKIALVDGTQINRNNNFQTFPQAVLLLFRCAT  
TGEAWQEILLACSYGKLCDPESDYAPGEEYTCGTNFAYYYYFISFYMLCAFLVINLFFAVI  
MDNFDYLTRDWSILGPHHLDEFKAIWAEYDPEAKGRIKHLDVVTLRRIQPPLGFGKFCP  
HRVACKRLVGMNPLNSDGTVTFNATL FALVRTALKIKTEGNFEQANEELRAI IKKIWKR  
TSMKLLDQVIPPIGDDEVTVGKFYATFLIQEHFRKFMKRQEEYYGYRPPKDIVQIQAGLR  
TIEEEAAPEICRTVSGDLAAEEELERAMVEAAMEEGIFRRTGGLFGQVDNFLERTNSLPP  
VMANQRPLQFAEIEEMESPVFLEDFPQDPRTNPLARANTNNANANVAYGNSNHSNSHV  
FSSVHYEREFPEETETPATRGRALGQPCRVLGPHSKPCVEMLKGLLTQRAMPRGQAPPAP  
CQCPRVSSMPEDRKSSTPGSLHEETPHSRSTRENTSRCSAPATALLIQKALVRGGLGTL  
AADANFIMATGQALADACQMEPEEVEIMATELLKGREAPEGMASSLGCLNLGSSLGSLDQ  
HQGSQETLIPRL

>sp|Q02641|CACB1\_HUMAN Voltage-dependent L-type calcium channel subunit beta-1 OS=Homo  
sapiens GN=CACNB1 PE=2 SV=3

MVQKTSMSRGYPYPSQEIPMEVFDPSQGYSKRKGFRKRS DGSTSSDTSNSFVRQGSA  
ESYTSRPSDSVSL EEDREALRKEAERQALAQLEKAKTKPVAFVRTNVGYNPSPGDEVP  
VQGVAITFEPKDFLHIKEKYNDWWIGRLVKEGCEVGFIPSPVKLDSLRLLEQEKLRQNR  
LGSSKSGDNSSSSLDGVVTGTRRPTPPASAKQKQKSTEHVPPYDVVPSMRPIILVGPSLK  
GYEVTDMMQKALFDFLKHFRDGRISITRVTADISLAKRSVLNNPSKHII IERSNTRSSLA  
EVQSEIERIFELARTLQLVALDADTINHPAQLSKTSLAPIIVYIKITSPKVLQRLIKSRG  
KSQSKHLNVQIAASEKLAQCPPEMFDIILDENQLEDACEHLAEYLEAYWKATHPPSSTPP  
NPLLNRMTATAALAASPAPVSNLQGPYLASGDQPLERATGEHASMHEYPGELGQPPGLYP  
SSHPPGRAGTLRALSRQDTFDADTPGSRNSAYTELGDSCVDMETDPSEGPGLGDPAGGGT  
PPARQGSWEDEEEDYEEELTDNRNRGRNKARYCAEGGPVLGRNKNELEGWGRGVYIR

>sp|P54284|CACB3\_HUMAN Voltage-dependent L-type calcium channel subunit beta-3 OS=Homo  
sapiens GN=CACNB3 PE=1 SV=1

MYDDSYVPGFEDSEAGSADSYTSRPSLSDSVSLEEDRESARREVESQAQQQLERAKHKPV  
AFVRTNVSYCGVLDEECVPQSGVNF EAKDFLHIKEKYSNDWWIGRLVKEGGDIAFIPS  
PQRLESIRLKQEQKARRSGNPSSLSDIGNRRSPPPSLAKQKQKQAEHVPPYDVVPSMRPV  
VLVGPSLKGYEVTDMMQKALFDFLKHFRDGRISITRVTADLSLAKRSVLNPNPKRTI IER  
SSARSSIAEVQSEIERIFELAKSLQLVVLADTINHPAQLAKTSLAPIIVFVKVSSPKVL  
QRLIRSRGKSQMKHLTVQMAYDKLVQCPPEFSDVILDENQLEDACEHLAEYLEVYWRAT  
HHPAPGPGLLGPSPAIPGLQNQQLLGERGEEHSPLERDSLMPSEASESSRQAWTGSSQR

SSRHLEEDYADAYQDLYQPHRQHTSGLPSANGHDPQDRLLAQDSEHNHSDRNWQRNRPWP  
KDSY

>sp|P55287|CAD11\_HUMAN Cadherin-11 OS=Homo sapiens GN=CDH11 PE=2 SV=2

MKENYCLQAALVCLGMLCHSHAFAPERRGHLRPSFHGHHEKGKEGQVLQRSKRGWVWNQF  
FVIEEYTGPDVVLVGR LHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTL DREE  
RAQYTLMAQAVDRD TNRPLEPPSEFIVKVQDINDNPPEFLHETYHANVPERSNVGTSVIQ  
VTASDADDPTYGNSAKLVYSILEGQPYFSVEAQTGI IRTALPNMDREAKEEYHVVIQAKD  
MGGHMGGLSGTTKVTITLTDVNDNPPKFPQSVYQMSVSEAAVPGEEVGRVKAKDPDIGEN  
GLVTYNIVDGDMESFEITTDYETQEGV IKLKKPVDFETKRAYSLKVEAANVHIDPKFIS  
NGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPDAANSPIRYS  
IDRHTDLDRFFTINPEDGFIKTTKPLDREETAWLNITVFAAEIHNHRHQEAKVPVAIRVLD  
VNDNAPKFAAPYEGFICESDQTKPLSNQPIVTISADDKDDTANGPRFIFSLPPEI IHNPN  
FTVRDNRDNTAGVYARRGGFSRQKQDLYLLPIVISDGGIPMSSTNTLTIKVCGCDVNGA  
LLSCNAEAYILNAGLSTGALIAILACIVILLVIVVLFVTLRRQKKEPLIVFEEDVRENI  
ITYDDEGGGEEDTEAFDIATLQNP DGINGFIPRKDIKPEYQYMPRPGLRPAPNSVDVDDF  
INTRIQEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESATTDSDLDYDYLQNWGPRFK  
KLADLYGSKDTFDDDS

>sp|Q13634|CAD18\_HUMAN Cadherin-18 OS=Homo sapiens GN=CDH18 PE=2 SV=1

MKITSTSCICPVLVCLCFVQRCYGAHHSSIKVMRNQTKHIEGETEVHHRPKRGWVWNQF  
FVLEE HMGPD PQYVGKLHSNSDKGDG SVKYILTGEAGTIFIIDDTGDIHSTKSLDREQ  
KTHYVLHAQAIDRRTNKPLEPESEFI IKVQDINDNAPKFTDGPYIVTPEMSDMGTSVLQ  
VTATDADDPTYGNSARVVYSILQGQPYFSVDPKTGVIRTALHNMDREAREHYSVVIQAKD  
MAGQVGGLSGSTTVNITLTDVNDNPPRFPQKH YQLYPESAQVGSAGVGIKANDADTGSN  
ADMTYSIINGDGMGIFSISTDKETREGILSLKKPLNYEKKKSYTLNIEGANTHLDFRFSH  
LGPFKDATMLKIIIVGDVDEPPLFSMPSYLM EYENAKIGTVVGTVLAQDPDSTNSLVRYF  
INYNVEDDRFFNIDANTGTIRTTKVL DREETPWYNITVTASEIDNPDLLSHVTVGIRVLD  
VNDNPPELAREYDIIVCENSKPGQVIHTISATDKDDFANGPRFNFFLDERLPVNPNTLK  
DNEDNTASILTRRRRFSRTVQDVYYLPIMISDGGIPSLSSSSTLTIRVCACERDGRVRTC  
HAEAF LSSAGLSTGALIAILLCVLILLAIVVLFITLRRSKKEPLIISEEDVRENVV TYDD  
EGGGEEDTEAFDITALRNPSAAEELKYRRDIRPEVKLT PRHQTSSTLESIDVQEFIKQRL  
AEADLDPSVPYDSLQTYAYEGQRSEAGSISSLDSATTQSDQDYHYLGDWGP EFKKLAEL  
YGEIESERTT

>sp|Q9H251|CAD23\_HUMAN Cadherin-23 OS=Homo sapiens GN=CDH23 PE=1 SV=2

MGRHVATSVHVAWLLVLISGCWGQVNRLPFFT NHFFDTYLLISEDTPVGSSVTQLLAQDM  
DNDPLVFGVSGEEASRFFAVEPDTGVVWLRQPLDRET KSEFTVEFSVSDHQGVITRKVNI  
QVGDVNDNAPT FHNQPYSVRIPENTPVGTPIFIVNATDPDLGAGGSVLYSFQPPSQFFAI  
DSARGIVTVIRELDYETTQAYQLTVNATDQDKTRPLSTLANLAIITDVQDMDPIFINLP  
YSTNIEYHSPPGTTVRIITAIDQDKGRPRGIGYTIVSGNTNSIFALDYISGVLTLNGLLD  
RENPLYSHGFILTVKGTELNDDRTPSDATVTTTFN ILVIDINDNAPEFNSSEYSVAITEL  
AQVG FALPLFIQVVDK DENLGLNSMFEVYLVGNNSHHFIIISPTSVQ GKADIRIRVAIPLD  
YETVDRYDFDLFANESVPDHVGYAKVKITLINENDNRPIFSQPLYNISLYENVTVGTSVL  
TVLATDNDAGTFGEVSYFFSDDPDRFSLDKDTGLIMLIARLDYELIQRFTLTIIARDGGG  
EETTGRV RINVL DVNDNVPTFQKDAYVGALRENEPSVTQLVRLRATDEDSPPNNQITYSI  
VSASAFGSYFDISLYEGYGVISVSRPLDYEQISNGLIYLTVMAMDAGNPPLNSTVPVTIE

VFDENDNPPTFSKPAYFVSVVENIMAGATVFLNATDLDRSREYQGESIIYSLEGSTQFR  
INARSGEITTTSLLDRETKSEYILIVRAVDGGVGHNQKTGIATVNITLLDINDNHPTWKD  
APYYINLVEMTPPDSVTTTVAVDPDLGENTLVYSIQPPNKFYSLNSTGKIRTTHAML  
DRENPDPEAEMLMRKIVSVTDCGRPPLKATSSATVFVNLLDLNDNDPTFQNLPFVAEVL  
EGIPAGVSIYQVVAIDLDEGLNGLVSYRMPVGMPRMDFLINSSSGVVVTTTELDREERIAE  
YQLRVVASDAGTPTKSSTSTLTIHVLDVNDPTFFPAVYNVSVSEDPREFRVVWLNCT  
DNDVGLNAELSYFITGGNDGKFSVGYRDAVVRTVVGLDRETTAAYMLILEAIDNGPVGK  
RHTGTATVFVTVLDVNDNRPIFLQSSYEASVPEDIPEGHSILQLKATDADEGEFGRVWYR  
ILHGNHGNFRIHVSNGLLMRGPRPLDRERNSSHVLIVEAYNHDLGPMRSSVRVIVYVED  
INDEAPVFTQQQYSRLGLRETAGIGTSVIVVQATDRDSGDGGLVNIRILSGAEGKFEIDE  
STGLIITVNYLDYETKTSYMMNVSATDQAPPFNQGFCSVYITLLNELDEAVQFSNASYEA  
AILENLALGTEIVRVQAYSIDNLNQITYRFNAYTSTQAKALFKIDAITGVITVQGLVDRE  
KGDFTLTIVVADDGGPKVDSTVKVYITVLDENDNSPRFDFTSDSAVSIPEDCPVGQRVAT  
VKAWDPDAGSNGQVVFSLASGNIAGAFEIVTTNDSIGEVFVARPLDREELDHYILQVVAS  
DRGTPPRKKDHILQVTILDINDNPPVIESPFGYNVSVNENVGGGTAVVQVRATDRDIGIN  
SVLSYYITEGNKDMAFRMDRISGEIATRPAPPDRERQSFYHLVATVEDEGTPTLSATHV  
YVTIVDENDNAPMFQQPHYEVLLDEGPDTLNTSLITIQUALDLDEGPNGTVTYAIVAGNIV  
NTFRIDRHMGVITAAKELDYEISHGRYTLIVTATDQCPILSHRLTSTTVLVNVNDINDN  
VPTFPRDYEGLPEFVTEGQPGPRVWTFLAHDRDSGPNQVEYSIMDGDPLGEFVISPVEGV  
LRVRKDVELDRETIAFYNLTICARDRGMPPLSSTMLVGIRVLDINDNDPVLLNLPMNITI  
SENSPVSSFVAHVLASDADSGCNARLTFNITAGNRERAFINATTGIVTVNRPLDRERIP  
EYKLTISVKDNPENPRIARRDYDLLLIFLSDENDNHPLFTKSTYQAEVMENSPAGTPLTV  
LNGPILALDADQDIYAVVTYQLLGAQSGLFDINSSTGVVTVRSGVIIDREAFSPPILELL  
LLAEDIGLLNSTAHLITILDDNDNRPTFSPATLTVHLLENCPPGFSVLQVTATDEDSGL  
NGELVYRIEAGAQRFLIHLVTGVIIRVGNATIDREEQESYRLTVVATDRGTVPLSGTAIV  
TILIDDINDSRPEFLNPIQTVSVLESAEPTVIANITAIDHDLNPKLEYHIVGIVAKDDT  
DRLVPNQEDAFVNINTGSVMVKSPMNREL VATYEVTLSVIDNASDLPERSVSVNPKLT  
VNVLDVNDNTPQFKPFGITYYMERILEGATPGTTLIAAAVDPDKGLNGLVITYTLLDLVP  
PGYVQLEDSSAGKVIANRTVDYEEVHWLNFTVRASDNGSPRAAEIPVYLEIVDINDNNP  
IFDQPSYQEAUFEDVPVGTIILTVTATDADSGNFALIEYSLGDGESKFAINPTTGDIYVL  
SSLDREKKDHYILTALAKDNPGDVASNRRENSVQVVIQVLDVNDCRPQFSKPQFSTSVYE  
NEPAGTSVITMMATDQDEGPNGELTYSLEGPGVEAFHVDMDSGLVTTQRPLQSYEKFSLT  
VVATDGGEPLWGTMLLVEVIDVNDNRPVFVRPPNGTILHIREEIPLRSNVYEVYATDK  
DEGLNGAVRYSFLKTAGNRDWEFFIIDPISGLIQTARLDRESQAVYSLILVASDLGQPV  
PYETMQPLQVALEDIDDNEPLFVRPPKGSPQYQLLTVPEHSPRGTLVGNVTGAVDADEGP  
NAIVYYFIAAGNEEKNFHLQPDGCLLVLRDLDREREAFSFIKASSNRSWTPPRGPSPT  
LDLVADLTQEVRVLEDINDQPPRFTKAEYTAGVATDAKVGSELQVLALDADIGNSL  
VFYSILAIHYFRALANDEDVGVFTMGSMGILRTFDLFMAYSPGYFVVDIVARDLAGH  
NDTAIIGIYILRDDQRVKIVINEIPDRVRGFEEFIHLLSNITGAIVNTDNVQFHVDDKKG  
RVNFAQTELLIHVVNRDNRILDVDRVIQIMIDENKEQLRNLFRNYNVLDVQPAISVRLPD  
DMSALQMAIIVLAILLFLAAMLFVLMNWYYRTVHKRKLKAIVAGSAGNRGFIIDIMPNT  
NKYSFDGANPVWLDPFRCRNLEAAQAEHEDDLPENLSEIADLWNSPTRTHGTGFGREPAAV  
KPDDDRYLRAAIQEYDNIAGLQGIIREGPIKGSLLKVLEDYLRLLKLFAQRMVQKASSC  
HSSI SELIQTELDEEPPGDHSPGQGSRLFRHKPPVELKGPDGIHVHVGSTGTLLATDLNSL

PEEDQKGLGRSLETLTAAEATAFERNARTESAKSTPLHKLRDVMETPLEITEL

>sp|Q86UP0|CAD24\_HUMAN Cadherin-24 OS=Homo sapiens GN=CDH24 PE=1 SV=1

MWGLVRLLLAWLGGWCMGRLAAPARAWAGSREHPGPALLRTRRSWWNQFFVIEEYAGP  
EPVLIGKLHSDVDRGEGRTKYLLTGEGAGTVFVIDEATGNIHVTKSLDREEKAQYVLLAQ  
AVDRASNRPLEPPSEFIKQVDINDNPPIFPLGPYHATVPEMSNVGTSVIQVTAHDADDP  
SYGNSAKLVYTVLDGLPFFSVDPQTGVVRTAIPNMDRETQEEFLVVIQAKDMGGHMGGLS  
GSTTVTVTLSDVNDNPPKFPQSLYQFSVVETAGPGTLVGRLRAQDPDLGDNALMAYSILD  
GEGSEAFSISTDLQGRDGLLTVRKPLDFESQRSYSFRVEATNTLIDPAYLRRGPFKDVAS  
VRVAVQDAPEPPAFTQAAYHLTVPENKAPGTLVGQISAADLDSPASPIRYSILPHSDPER  
CFSIQPEEGTIHTAAPLDREARAWNLTVLATELGWSWGPGRGWVPLLVAEWSAPAAPPQ  
RSPVGSAVGIPQDSSAQASRVQVAITQLDENDNAPQLAEPYDTFVCDSPAAPGQLIQVIRA  
LDRDEVGNSSHVSFQGGLPGDANFTVQDNRDGSASLLPSRPAPPRHAPYLVPIELWDWG  
QPALSSTATVTVSVCRCPDGSVASCWPEAHLAAGLSTGALLAIITCVGALLALVVLV  
ALRRQKQEALMVLEEEDVRENIITYDDEGGGEEDTEAFDITALQNPDAAPPAPGPPARR  
DVLPRARVSRQPRPPGADVAQLLALRLREADEDPGVPPYDSVQVGYEGRGSSCGSLSS  
LGSGSEAGGAPGPAEPLDDWGPLFRTLAELYGAKEPPAP

>sp|Q8IXH8|CAD26\_HUMAN Cadherin-like protein 26 OS=Homo sapiens GN=CDH26 PE=2 SV=3

MAMRSGRHPSLLLLLVLLLWLLQVSIIDSVQKETDDLTKQTEKIYQPLRRSKRRWITT  
LELEEDPGFPKLIIGELFNNMSYNMSLMYLISGPGVDEYPEIGLFSLEDHENGRIYVHR  
PVDREMTSFTVYFDVVERSTGKIVDTSLIFNIRISDVNDHAPQFPEKEFNITVQENQSA  
GQPIFQMLAVDLDEENTPNSQVLYFLISQTPLLKESGFRVDRLSGEIRLSGCLDYETAPQ  
FTLLIRARDCGEPSLSSTTTVHVDVQEGNNHRAFTQENYKVQIPEGRASQGVLRLLVQD  
RDSPTSAWRAKFNILHGNEEGHFDISTDPETNEGILNVIKPLDYETRAQSLIIVVENE  
ERLVFCERGKLPKPRKAAASATVSVQVTDANDPPAFHPQSFIVNKEEGARPGTLLGTFNA  
MDPDSQIRYELVHDPANWVSVDKNSGVVITVEPIDRESPHVNNSFYVIIHAVDGDFPPQ  
TATGTLMLFLSDINDNVPTLRPSRYMEVCESAVHEPLHIEADPDLEPFSDFTFELDN  
TWGNAEDTWKLGRNWGQSVELLTLRSLPRGNYLVPLFIGDKQGLSQKQTVHVRICPCASG  
LTCVELADAEVGLHVGFVCAAFVALAVALLFLLRCYFVLEPKRHGCSVSNDEGHQTL  
VMYNAESKGTSAQTWSDEVGQRPALLICTAAAGPTQGVKAYPDATMHRQLLAPVEGRMAE  
TLNQSKERNRFSLSRGCII PQGRATAGRGLPQDIYKEMMPRRLTQTGKRKHGALARTPSF  
KKVVYDHKEDEENKAGRKQRSHLFKVMQLRNEQGGVRVQSAHSPSPLNKKACFPDGYRGE  
SAGGHNCRAVSG

>sp|Q8N126|CADM3\_HUMAN Cell adhesion molecule 3 OS=Homo sapiens GN=CADM3 PE=1 SV=1

MGAPAAASLLLLLLFACCWAPGGANLSQDDSQPWTSDETVVAGGTVVLKQVKDHEDSSL  
QWSNPAQQTLYFGEKRALRDNRIQLVTSTPHELSISISNVALADEGEYTCSIFTMPVRTA  
KSLVTVLGIPQKPIITGYKSSLREKDTATLNCQSSGSKPAARLTWRKGDQELHGEPTRIQ  
EDPNGKTFTVSSSVTFQVTREDDGASIVCSVNHESLKGADRSTSQRIEVLYTPTAMIRPD  
PPHPREGQKLLLHCEGRGNPVPQQYLWEKEGSPPLKMTQESALIFPFLNKSDSGTYGCT  
ATSNMGSYKAYYTLNVNDPSPVSSSSTYHAIIGGIVAFIVFLLIMLIFLGHYLIRHKG  
TYLTHEAKGSDDAPDADTAIINAEGGQSGGDDKKEYFI

>sp|Q5NE16|CATL3\_HUMAN Putative inactive cathepsin L-like protein CTSL3P OS=Homo sapiens  
GN=CTSL3P PE=5 SV=1

MKMIEQHNQEYREGKHSFTMAMNAFGEMTSEEFRQVVNGFQNKQHRKGKVLQEPLLDHDIR  
KSVDWREKGYVTPVKDQCNWGSVRTDVRKTEKLVLSVQTTWTALGFKAMLAFLNHYF

ASSMLPTMEAWTLRKPFHMKSSGDWKVQGHARGASGESLLASGESQQSPEVAQYSGKHQV  
QCHLIEEALQMLSGGDEHDHEDKWPHDMRNHLAGEAQV

>sp|A6NM15|CBWD7\_HUMAN Putative COBW domain-containing protein 7 OS=Homo sapiens GN=CBWD7  
PE=5 SV=3

MFWVDAELGSDIYLDGIITIVDSKYGLKHLTEEKPDGLINEATRQVALADIILINKTDLV  
PEEDVKKLRTTIRSINGLGQILETQRSRVDSLNVLDLHAFDSLGSISLQKKLQHVPGTQP  
HLDQSIVTITFEVPGNAKEEHLNMFIQNLLWEKNVRNKDNHCMEVIRLKGLVSIKDKSQQ  
VIVQGVHELYDLEETPVSWKDDTERTNRLVLIGRNLDKDILKQLFIATVTETEKQWTHF  
KEDQVCT

>sp|P83916|CBX1\_HUMAN Chromobox protein homolog 1 OS=Homo sapiens GN=CBX1 PE=1 SV=1

MGKKQKKKKVEEVLEEEEEYVVEKVLDRRVVKGKVEYLLKWKGFSDENTWEPEENLDC  
PDLIAEFLQSQKTAHETDKSEGGKRKADSDSEDKGESKPKKKKEESEKPRGFARGLEPE  
RIIGATDSSGELMFLMKWKNSEADLVPKEANVKCPQVVISFYEERLTWHSYPSEDDDK  
KDDKN

>sp|P45973|CBX5\_HUMAN Chromobox protein homolog 5 OS=Homo sapiens GN=CBX5 PE=1 SV=1

MGKTKRTADSSSEDEEEYVVEKVLDRRVVKGQVEYLLKWKGFSEEHTWEPEKNLDCP  
ELISEFMKKYKMKEGENNKPREKSESNNRKSNSNSADDIKSKKKREQSNDIARGFERG  
LEPEKIIIGATDSCGDLMLMKWKDTEADLVLAKEANVKCPQIVIAFYEERLTWHAYPED  
AENKEKETAKS

>sp|Q6TFL3|CC171\_HUMAN Coiled-coil domain-containing protein 171 OS=Homo sapiens  
GN=CCDC171 PE=2 SV=1

MNLNTSSNTGDTQRLKIASLDVKQILKNETELDITDNLRKHLHWAKKEKLEITTKHNAEL  
ASYESQIAKLRSVEKEGEALRQSLEYDLAVARKEAGLRRAAEERLAEAHRIQEKLC AQN  
SELQAKTNETEKAFQTSQQKWKEECRRFEHDL EERDNMIQNCNREYDLLMKEKSRL ECTL  
QEAL EKHQREKNEMESHIRETAL EEFRLQEEQWEAERRELQFIVQE QDTAVQNMHKKVEK  
LETEHMD CSDLRRQTSELEFSTQREERLRKEFEATTLRVRKLEENIEAERA AHLESKFN  
SEIIQLRIRDLEGALQVEKASQAEAVADLEIIKNEFKEVESAYEREKHNAQESFAKL NLL  
EKEYFSKNKKNL NEDIEEQKKV IIDL SKRLQYNEKSCSELQEELVMAKKHQAFLVETCENN  
VKELESILDSFTVSGQWTS GIIHKDKDKPPSFSVVLERLRRTLTDYQNKLEDASNEEKACN  
ELDSTKQKIDSHTKNIKELQDKLADV NKELSHLHTKCADREALISTLKVELQNVLHCWEK  
EKAQAAQSESELQKLSQAFHKDAEEKLTFLHTLYQHLVAGCVLIKQPEGMLDKFSWSEL C  
AVLQENV DALIADLNRANEKIRHLEYICKNKSDTMRELQQTQEDTFTKVAEQIKAQESC W  
HRQKKELELQYSEL FLEVQKRAQKFQEI AEKNMEKLNHIEKSHEQLVLENSHFKKLLSQT  
QREQMSLLAACALMAGALYPLYSRSCALSTQRDFLQE QVNTFELFKLEIRTLA QALSTVE  
EKKQEEAKMKKTKFGLIRIFRKGVI AVLAANRLKILGQSCASLFTWMESFKEGIGMLVC  
TGEPQDKHKFPKHQKEQLRCLQALSWLTSSDLLAAIISSMAELQDVIGKADPN SRICGHL  
LIGA AKNSFAKLMDKISLVMECIPLHSSRSITYVEKDSL VQRLAHGLHKVNTLALKYGLR  
GHVPITKSTASLQKQILGFTQRLHAAEVERRSRLLEVTEFKRSVNEMKKELDKAQGLQMQ  
LNEFKQSKLITHEKFESACEELNNALLREEQAQMLLNEQAQQLQELNYKLELHSSEEADK  
NQTLGEAVKSLSEAKMELRRKDQSLRQLNRHLTQLEQDKRRLEENIHDAESALRMAAKDK  
ECVANH MRAVENTLHKVRDQISLSWSAASRNDFTLQLPKLHLETFAMEGLKGGPEVVACQ  
AMIKSFMDVYQLASTRIMTLEKEMTS HRSHIAALKSELHTACLRENASLQSIGSRDHSNL  
SIPSRAPLPADTTGIGDFLPLKAELDTTYTFLKETFIN TVPHALTSSHSPVTMSANANR  
PTQIGL

>sp|POC221|CC175\_HUMAN Coiled-coil domain-containing protein 175 OS=Homo sapiens  
GN=CCDC175 PE=4 SV=2

MALSPWTPGLGAGEKLVQAAAVSTGPSLELCTLPSTLGSSVAVEALEQLFVVEQSLQSDY  
FKCNEEAKIFLKDIAVAVKKLEEMRKATIDLEIESMELNKLYLLETLPNSIKRELEEC  
VRDARRLNLFEINTIKMTRITRTENEIELKKKITDLTKYNEALGEKQEELARKHARFVLS  
LNQTMEEKATTTVYINETYTKINLKREDIALQKKCIQEAEEELMEKERAEYLIRKQELTAQ  
INEFENTREVKRMETYQKKKELDKLQTKMSKIKETVTVSAAVLSHDNLEIARLHESIRYW  
EQEVSELKKDLAILEAKLCFFTDNKEKLDDISNDEKNEFLNKIKQLVETLHAARMEYKDL  
REKMKTLARQYKIVLSEEEKAFQKQKIHDENQKQLTFISQKEYFLSQKRVDIKNMEEGL  
ITLQELQQATKTVYQQQIKILSANLERESQRCVITQWKMACLRKKHARWTAKIKAEIQAI  
TEKIQNAEVRRIELNETSFRQQEISGFVAQIEKLTTTELKEEEKAFVNKEKMLMKELSKY  
EEIFVKETQINKEKEEELVEYLPQLQVAEQEYKEKRRKLEELSNIITAQRQEEDLLNNHI  
FLFTRDFSRYISNMEDVKQELQQLRDQESKKNKDHFETLKNLENGFYINDQKADLLLLLEN  
KKLKEYILYLKNNIEKYREGQEALMHTSSDLSRQLIAQEAQYKDLWAEFQTTVKILVDNG  
EETLQDINNLTDKLRERDEKMQHVSTWLRGSLEGLRLLVEQESPMDLLKKKKHIRTRVHF  
PVVKCTEKNTLTK

>sp|Q5BJE1|CC178\_HUMAN Coiled-coil domain-containing protein 178 OS=Homo sapiens  
GN=CCDC178 PE=2 SV=3

MTENKTVSSSSTRDDQTNIGLTCQEVKALREKAWSRTNEGNAMSQSLVLYGASKENSEGF  
HESKMTNTEGVNKGIFYSPYPCRRHSCAVVNIPAPCVNKMISHIQDVESKIQEHLKRFETS  
FEEWSRTSSTKDLKEDWSVTTVPKEVKPGEKRDEKCPCLKQEMETLLSEAIRLIKSLQETD  
RADAEEALKQQRSRKNMINMKIDSWSVWKLQELPLAVQKEHEAYLSDVIELQWHLEDKAN  
QLQHFEKQKTELEENAKIQADIDYMNEHGPLDLSKQNLQDLKNHYKKKMEVMDLHRK  
VNEELEEALEACENARLKAQQIKEEIDKDIYQDEKTIKREIYQLNSLFDHYSSSVIN  
VNTNIEEKEEEVTEAIRETKSSKNELHSLSKMLEDLRRVYDQLTWKQKSHENQYLEAVND  
FYAAKKTWDIELSDVAKDFSAISLACTKLTEDNKKLEIDINKITVKTNESIRKKSKEYESE  
IKYLTIMKLKNDKHLKNIYKEAYRIGTLFHLTKHKTDKEDKIAEVRRKFKGREEFLKKL  
TQGEVAAGMVLQKKLYSIYEVQALERKELIKNRAICAMSLAELQEPLQLLEDEAERIRSL  
DKEHSVMLNNIIDQKDLIRRKVGKVKKKLRKKGKKTLDALIESKRSKSAIFKDLEATKSK  
TMIFYAKINELNEELKAKEEEKSFDQTLILKNKFITMRFKREHAQTVFDHYMQEKKDC  
EERIFEEDQFRFVLLAVRQKTLQDTQKIIADSLEENLRLAQEYQQLQITFLKEKDNYFNI  
YDKQLSLDTSIRDKKQLCQLRRMHTLWQEHFKLVVLFQMLANFQTDQSQESIQLILAV  
QEESNLMQHILGFFQTLTDGTCENDG

>sp|Q5TID7|CC181\_HUMAN Coiled-coil domain-containing protein 181 OS=Homo sapiens  
GN=CCDC181 PE=2 SV=1

MNENKDTDSKKSEYEDDFEKDLEWLINENEKSDASIIEMACEKEENINQDLKENETVME  
HTRHSDPDKSLQDEVSPRRNDIISVPGIQPLDPISDSDSENSFQESKLESQKDLEEEED  
EEVRRYIMEKIVQANKLLQNQEPVNDKRERKLKFKDQLVDLEVPPLEDTTTFKNYFENER  
NMFGLSQLCISNDFGQEDVLLSLTNGSCEENKDRTILVERDGKFELNLQDIASQGFLP  
PINNANSTENDPQQLPRSSNSSVSGTKKEDSTAKIHAVTHSSTGEPLAYIAQPPLNRKT  
CPSSAVNSDRSKGNGKSNHRTQSAHISPVSTSTYCLSPRQKELQKQLEEKREKLKREEERR  
KIEEKEKKRENDIVFAWLQKKREQVLEMRRITQRAKEIEDMNSRQENRDPQQAFLWLK  
KKHEEQMKERQTEELRKQEECLFFLKGTEGRERAFKQWLRKRMEKMAEQQAVRERTRQL  
RLEAKRSKQLQHHLYMSEAKPFRFTDHYN

>sp|Q8N715|CC185\_HUMAN Coiled-coil domain-containing protein 185 OS=Homo sapiens  
GN=CCDC185 PE=1 SV=2

MAGFSHFSQPPYRDLEWPPRPGGERESTQRLGGQRSGADSTACSRAGTPGAESEAGACWL  
HPHCSFTPRRRRGCSDSLGRSRLSDVARRPLERSRKHRPRSRRLEDAWGETGTKPRPA  
WQPQTQLPPQRPQPCPHYPLAQGDSPPPCPGGAGTPLSGTFRVEKAQGGDQWAVPLGRHL  
GRWSPSSVPSERSSVPSQKFKRHSACVCAQKRDSSDQVESLASRDSQPLASSKEMRSPHT  
QVLKSKLEEVVVSSQDQQIVALVTRLKKAQRIRELQQQAAKAWHEELKRSDQKVQMTLER  
ERRLLLRQSSEQWQKEQKRTLQSPEQRGLRRDSQRKNVPPGESRWKEQPEDQESPRQEK  
LEKARAQAEHRKQCQVRRLEQEKMRLNLRQHSLLQRRRLVEACRKRHLHAVEGQKKVQ  
DTNLSSLINQARKVLMDCQAKAEELLRQLSLEQSFQRSQEIHQGLRKERQRELREKAQK  
EEEQLQARWRAGESEEQRKMRKRILVELADEKIRQARSHVHKTTTRDKVQHLRELNLHRE  
KNHHILKLKAEKEEKCHIEGIKEAIKKKEQRVQHISQKDPNFQEFQKLPPQASRREERAP  
PNSSLDQMVLEAQLRACQQNRGY

>sp|A1A4V9|CC189\_HUMAN Coiled-coil domain-containing protein 189 OS=Homo sapiens  
GN=CCDC189 PE=2 SV=1

MLNRKTSHFLGMRVQSELEHLSLREAGKDRSSVHGSAAARTRASVRTQWTTAAAAKADE  
DPGANLFPPPLPRPRICMWKYLDVHSMHQLKTTNAEMREVLAEELLEGCPEQSLRDAIT  
LDLFCHALIFCRQQGFSLEQTSAAACALLQDLHKACIATPLGNVEECYRYFTSVLFCBGVR  
RPPFSIDLKKEQLLALEDYVVNTYFRHFKLYKYVFTPQVRLDLSLYMGLQPPKLWPES  
ETEKEESKEMEEQAVTPQKEELETVAPPEPEPSHIHVLRAYIKTQVNKELEQLQGLVEER  
LKASEERLSSKLTALERPFQLPPGKGKSKTK

>sp|Q6ZRV3|CC074\_HUMAN Putative uncharacterized protein encoded by LINC00696 OS=Homo sapiens  
GN=LINC00696 PE=5 SV=1

MQSVDSMLGTVGCGGGGEAASTFSKDPSCCGVGNDCRDGGRGLERRHGRWSRGEAGESGL  
CSGGQMASEIEYWDGLAISVMEVEKAFGSTNVLWKTEPFSWACTAACPPSLSPTLLALG  
LPRDGKELAEQGSWTVLEPGGDWSHSQSQLGTPGRGKGALGF

>sp|Q8NCX0|CC150\_HUMAN Coiled-coil domain-containing protein 150 OS=Homo sapiens  
GN=CCDC150 PE=1 SV=2

MDCKVHMETTVSRPVLSPHINATASETFTVLQQRMRIVEEQTSSLRDDLIIMLDFGEKRG  
YLEAPDCLEDLDSQKVISPIQNEAICAGKTDILWKNCEFLVNRMCRLSLMQSLKMNIFR  
LQTEKDLNPQKTAFLKDRLNAIQEEHSDKLLHLEVMNLRQQLRAVKEEDKAQDEVQR  
LTATLKIASQTKKNAATIEELKTTRKMNLIKIQELRRQLAQEKYLRESLEKSASAMLLK  
IQEMGSTVEVERKQVHILQQNCIALRDSIQSAQELLAQEQKKKEELEIATSQKSDLTSR  
DDLISKLVENKNLQISFNKEHEENAYLRSEIMSLHEASEKAQVLNDQLTKKCELSCLML  
QTVTMEKARIADHQAILQVEQKMMTQTFQEQNLLDAAHASITNELQTVQNEKTQLQAH  
LDHLILEHNQCIQKAQDAEKRTAVQKELLESTIARLRGELEASMKEKSLLEEKERFQRE  
VNKTEKEIVQERCNLEKELAKNKVDINTLTHNLQTLEENKHLADQMASLELQQVTSYH  
GLAQQKVEKITESKNKLAYENGLQIKVKQLEEQVQSFTDTSQNDHLRKMNKYLQTKYA  
QANSELSAKRVHLQQAHAHLKEVKSILERSKEELSRTVKCRNAALKESQKLKEDLEAVED  
RENKKGNFQRQLAEAKEDNCKVTIMLENVLASHSKMQGALEKVQIELGRRDSEIAGLKK  
ERDLNQQRVQKLEAEVDQWQARMLVMEDQHNSIESLQKALGVAREDNRKLAMSLEQALQ  
TNNHLQTKLDHIQEQLESKELERQNLQTFKDRMTEESKVEAELHAERIEALRKQFQTERE  
TTKKVAQREVAELKKALDEANFRSVEVSRTNRELQKLAELEKILESNEKIKNQKTQIK  
LHLSAKANNAQNIERMKQIEKELKQMELIKDYQKKNYEQSLSIQRFVCEMTNLQKEMQM



LAKSQYDASVRNKQQELHLEAERKIRQELENRCQELEETVRHLKKCKEATENTLKEASVE  
SEQITANLEEHRWFKHRFDGLQLELTKNRLQRPSGEDRWQEKDQDVKHDVMSNQSVLHR  
WERKQNLRPMPKKYHSEVQRK

>sp|Q9NQR7|CC177\_HUMAN Coiled-coil domain-containing protein 177 OS=Homo sapiens  
GN=CCDC177 PE=2 SV=3

MVDPVPPEEEKAGAEPGDSGGDEAVASVPPDSQGAQEPAASSASASASAAVPRKAEVPCAA  
AEGGRREQSPLLHLDLNFDCPEAEGSRYVLTSPRSLEACARCAVKPVELLPRALADLVR  
EAPGRSMRVATGLYEAYEAERRAKLQQCRAERERIMREEKRRLFTPLSPAAAAAAAAAAAA  
SAPSAGSSSSSSASLPASPAPRAARKASPSPSARTQPPAPAGSRTGRKSHSLDSLSRRR  
EGALSSSESASSSSSYSGESLRELRWPPRASARNSCPAGSASSTTNAPGRPSALTLPITG  
RSFSLGDLSHSPQTAQHVERIVRQVRAERGLRGVPERDRKIAALMLARHQEELLLLEQRA  
AAHQWELQRVHAKQRREREEREKQRALEQGRRAWAAQVEERRGRRGREEREAAARRRQRQ  
YERSEERRRELAERQGLLRRAERAAREDRLRKLQQEQNLKQREEGLQEGRERAEQIRR  
ERAQRAARAKQRQEGQLQREKRELSRAERARHEALLQGRTRQQRQEREGLRSSLEASLGR  
AQENYEHLVEQRTRELREARREELQGRRAKEAAERKEREHQAHLAALARAGERRLQHAT  
QVAEEAVQQKARRVGQSRLKERAQRANKEKVERDEDCRRRELLQAIGRKLERSEQLTRE  
RRSALESARSTARASFHVREKVREETNTRSFDRMVREAQLHASLDRK

>sp|Q9P1Z9|CC180\_HUMAN Coiled-coil domain-containing protein 180 OS=Homo sapiens  
GN=CCDC180 PE=2 SV=2

MWHGNHVQPGATHRPNQGLEMLQGLGIGMKAFHNFNYFLFFYNVLLGLGACLSRLLISCL  
LGMWLIARIDRTIMQSGYEGADMGFSAWIGMLYMDHYHINPVLVSFCHILITNHREKKLQ  
QSTKYWCLNQSAESLRICAMRGGENRPPARVQSSEELRHQSLDAFPGRRLPGRGIQP  
AAKMSSVGKVTQVPNGKAYQQIFQAEVQLVHSLAATRKRAAERSVTLSKGRIPMMKKVET  
PEGEVMSPRQQKWMHSLPNDWIMENPVLHREKERAKREKARESENTIAAREVRGLMDTIV  
PEKISTSTFQRQAEHKRKSYESALASFQEEIAQVGKEMEPLIVDTGGLFLKKLTESDEEM  
NRLFLKVENDTNLEDYTIQALLELWDKVAGRLLLRKQEKELDEALHSLEFSRTDKLSV  
LKKYAEVIEKTSYLMRPEVYRLINEEAMVMNYALLGNRKALAQLFVNLMESTLQQELDSR  
HRWQGLVDTWKALKKEALLQSFSEFMASESIHTPPAVTKELEVMLKTQNVLQQRRLLKHL  
TICDLLPPSYSKTQLTEWHSSLSLNKELDTYHVDMMRIRLLYEKTWQECLMHVQNCKK  
QLLDWKAFTEEEAETLVNQFFQMVGALQGKVEEDLELLDKSFETLADQTEWQSSHLFKY  
FQEVVQLWEAHQSELLVQELELEKRMEQHRQKHSLESQVQEAHLDRLLDQLRQQSDKETL  
AFHLEKVKDYLNKMSRYECFHTLLTKEVMEYPAIMLKELNSYSSALSQYFFVREIFEQN  
LAGEVIFKFRQPEAHEKPSQKRVKKLKKQGSKEDMTRSEESISSGTSTARSVEEVEEEN  
DQEMESFITEEVLGQQKSPLHAKMDESKEGSIQGLEEMQVEREGSLNPSLNEENVKGQG  
EKKEESEEEDEKEEEEEEEKLEEEKEKEAQEEQESLSVGEEEDKEEGLEEIYYEDMESF  
TISSGNTYFVFPLEEEHCRKSHSTFSAMFINDTSSAKFIEQVTIPSRLLILEIKKQLFSE  
GGNFSPKEINSLCSRLEKEAARIELVESVIMLNMEKLENEYLDQANDVINKFESKFHNL  
VDLIFIEKIQRLLTNLQVKIKCQVAKSNSQTNGLNFSLQQLQNKIKTCQESRGEKTTVTT  
EELLSFVQTWKEKLSQRIQYLNCSLDRVSMTELVTNTILKDQEEDSDILTSSEALEEEA  
KLDVVTPESTQLSRVGKPLIEDPAVDVIRKLLQLPNTKWPTHHCDDPSQTGFKRHRCQ  
PENSGKKAVPSASATSAGSLQTHPPLSHSFTPHPKPNKMERKYRVLGDKPPPAEDFKG  
IILTLLWESSENLLTVAEEFYRKEKRPVTRPDCMCDTFDQCAENISKKILEYQSQANKYH  
NSCLIELRIQIRRFELLQVQCWLVMENFKEHHWKFFTSVKEIRGQFEEQQKRLEKRKD  
KNAQKLHLNLGHPVHFQEMESLHLSSEERQEELDSMIRMNKEKLEECTRRNGQVFITNLA

TFTEKFLQLDEVVTIDDVQVARMEPPKQKLSMLIRRKLAGLSLKEESEKPLIERGSRKW  
PGIKPTEVTIQNKILLQPTSSISTTKTTLGHAAVEARDAVYLKYLASFEEELKRIQDDC  
TSQIKEAQRWKDSWKSLHTIQGLYV

>sp|A6NF36|CC182\_HUMAN Coiled-coil domain-containing protein 182 OS=Homo sapiens  
GN=CCDC182 PE=2 SV=1

MEPLYQAGSILMTVNTLQGGKMIESGLQSGDFSLSQSWPSCLPSPADLEILQQKVAGVQR  
ELEDFFKKEALKSIHYLEDAFCMENMGALVQEEQAARVRQRLREEEDRGIVRNKVLTFLLP  
REKQLREHCKRLEDLLDRGRDALRATKKSQAD

>sp|Q7Z3E2|CC186\_HUMAN Coiled-coil domain-containing protein 186 OS=Homo sapiens  
GN=CCDC186 PE=1 SV=2

MSETDHIASSTSDKNVGTPELKEDSCNLFSGNESSKLENESKLLSLNTDKTLCQPNEHN  
NRIEAQENYIPDHGGGEDSCAKTDTGSENSEQIANFSPGNFAKHISKNETEQKVTQILV  
ELRSSTFPESANEKTYSESPYDCTCKKFISKIKSVSASEDLLEEIESELLSTEF AEHRV  
PNGMNKGEHALVLFQKCVQDKYLQQEHIIKKLIKENKKHQELFVDICSEKDNLREELKKR  
TETEKQHMNTIKQLESRIEELNKEVKASRDQLIAQDVTAKNAVQQLHKEMAQRMEQANKK  
CEEARQEKEAMVMKYVRGEKESDLRKEKETLEKKLRDANKELEKNTNLIKQLSQEKGR  
HQLYETKEGETTRLIREIDKLKEDINSHVIKVKWAQNKLKAEMDSHKETKDKLKETTTL  
TQAKEEADQIRKNCQDMIKTYQESEEIKSNELDAKLVRTKGELEKQMQEKSDQLEMHHAK  
IKELEDLKRTFKEGMDELRTLRTKVKCLERLRTEDELSKYKEIINRQKAEIQNLDDKV  
KTADQLQEQLQRGKQEIENLKEEVESLSLINDLQKDIEGSRKRESELLFTERLTSKNA  
QLQSESNSLSQFDKVSSESQSQCEQMKQTINLESRLLEEELRKEEVQTLQAELA  
CRQTEVKALSTQVEELKDELVTQRRKHASSIKDLTKQLQARRKLDQVESGSYDKEVSSM  
GSRSSSSGSLNARSSAEDRSPENTGSSVAVDNFPQVDKAMLIERIVRLQKAHARKNEKIE  
FMEDHIKQLVEEIRKKTIIQSYILREESGTLSSASDFNKVHLSRRGGIMASLYTSHPA  
DNGLTLELSLEINRKLQAVLEDTLKNITLKENLQTLGTEIERLIKHQHELEQRTKKT

>sp|Q9GZT6|CC90B\_HUMAN Coiled-coil domain-containing protein 90B, mitochondrial OS=Homo  
sapiens GN=CCDC90B PE=1 SV=2

MNSRQAWRLFLSQGRGDRWVSRPRGHFSPALRREFFTTTTKEGYDRRPVDITPLEQRKLT  
FDTHALVQDLETHGFDKTAETIVSALTALSNVSLDTIYKEMVTQAQQEITVQQLMAHLD  
AIRKDMVILEKSEFANLRAENKMKIELDQVKQQLMHETSRIRADNKLDINLERSRVTDM  
FTDQEKQLMETTTEFTTKDTQTKSIISSETSNKIDAEIASLKTLMESNKLETIRYLAASVF  
TCLAIALGFYRFWK

>sp|Q8IYE1|CCD13\_HUMAN Coiled-coil domain-containing protein 13 OS=Homo sapiens GN=CCDC13  
PE=1 SV=2

MAADESSQNTLRLQFKAMQEMQHKRLQKQMEKKREKELSLKSRADDQEEPLEVSDGLSLL  
HAGEPNSKNSFEKRVLEDEIEHLRNELRETVDENGRLYKLLKERDFEIKHLKKKIEEDRF  
AFTGTAGVAGDVVATKIVELSKKNRLLMAESEGAKTRVKQLTNRIQELERELQTALTRLS  
AKGATDAGAKPPRAQMGRDRLLETPEVKALQDRLVATNLKMSDLRNQIQSVKQELRMAQK  
VLAREVGEDINVQQLSSPGTWRGRAQQILVLQSKVQELEKQLGQARSQSAGTASDELSV  
YPDPRLKLSAQEKNLLRIRSLEREKQEGLEKLASERDVLQRELEELKKKFEGMRSRNKLLS  
SEMKTLSQMGTLVEKGRHDELIDALMDQLKQLQEILGSLSLQEEKTRVSQHHLDDQQLN  
SEAQRSNSLVAQLQAMVAEREAQVRQLEMEIGQLNVHYLRNKGVGEGSSGREVSPAYTQF  
LEDPGLTKSPASAGDHVGRLGSSRSVTSLGHTLVESALTRPSLSPHRTSPRFSDSPEQK  
GWQAQVSEIKALWQAAEVERDRLTEFVTVLQKRVEESNSKLLSERKQLQEERHRTVVLEQ

HLEKIRLEPGKASASQRAAPRTKTGLPTSNNRHNPTGSEKKDPSFAQLSDVPVESQMEEL  
TTRLAIQVEENEMLKAALGSALRGKEEDFRMYHEILGQVKS VFLQALRQKTKGQ

>sp|Q8N4L8|CCD24\_HUMAN Coiled-coil domain-containing protein 24 OS=Homo sapiens GN=CCDC24  
PE=1 SV=1

MLRHSPSLWELVEEHVPLRERREVKRILGEAAVDLSLELRAEVAMLRALLQEARSSQAPS  
SRPISDPSSLLAPPLLKDLLRQELRQLLQGLRHKAICEGRDQAQAWVQYSPRVLHFALE  
EPRCDLPEQEIFQMRGGGPSSGHRDLSIIKDQLNVSNIQVARHLRGLLEEECHTLEREI  
LILQRCLLEEEYLRPCHPSEAALEPTLAELKEQKKAMEQELQASVGPSCVSPNHRQRPLGS  
STQGLRPPLPLCGVAPLQCCLPAPPEPYLRPRGQSATHRWGRQLQCSPREGPASTPMSS  
AAPQAPA

>sp|Q8TAB7|CCD26\_HUMAN Putative coiled-coil domain-containing protein 26 OS=Homo sapiens  
GN=CCDC26 PE=5 SV=1

MERLCLQPGLLPTAVYLPHWERSSRDREEKEAPFFRLLSRRLMFCVHARQRTQNPINKY  
QRLVVKMKEEEALREKLNMQNITHKENQAGSLEMIDNMLKQEERRELK

>sp|Q8IYA8|CCD36\_HUMAN Coiled-coil domain-containing protein 36 OS=Homo sapiens GN=CCDC36  
PE=1 SV=2

MNFVWNKIMELSIIPSGSGNKKSSNWNQNDYSSLSDSQFLFGSQFCPENSETLSAPLD  
FGAHLRHKSQSQNNYLEGEPSIFTKYQTKPQLFGGDIKDGGFLFPPLSVGKSKGLLEQFE  
EKKKRAKDKCSETLYNFVSNVRESILRLQTSVEKSEDHLSSRSQSILDSLETVAKTLQE  
TIQAQNDLVFEAVQDKGNMEQAILEMKRFEARQGEFIEMKSNLKHLEVLVAQQSQEFQQ  
LCEQLGQLNVPSVLAELKRLISVPPVKDSASQTSPLAQSLNLTRQEKYTSEKPVWQAQ  
ALPAAWNPGMGS LQPGFEDVWEGAKNDDLQEEAALPAFGSHERNRHV KDKVVQTNCKNW  
AVTKTGAKNHGSSVPGHKIPSDRDLVSQGASQLTSLEINFSTS IKNACQKYQAQSMFLCD  
PREHLVIKQKDGTVEMRGDKKQKQPRKAHRAHRGRLIASKQKQIPIQTCKFNSKYQSPQP  
AISVPQSPFLGQQEPRAQLHLQCPRSPRKPVCPILGGTVMPNKT VRAVQGRLQLSRCS  
SQDNWLLSSSSQGDHQMWSFDLNLGCSETPLCKEAGKNLLYDLGFDSSDDGDF

>sp|Q96MW1|CCD43\_HUMAN Coiled-coil domain-containing protein 43 OS=Homo sapiens GN=CCDC43  
PE=1 SV=2

MAAPSEVAAIAPGEGDGGGGGFGSWLDGRLEALGVDRAVYGAYILGILQEEEEEEKLDAL  
QGILSAFLEEDSLNICKIEIVERWSETQNVVTKVKKEDVQAIATLIEKQAQIVVKPRMV  
SEEEKQRKAALLAQYADVTDEEDEADEKDDSGATTMNIGSDKLLFRNTNVEDVLNARKLE  
RDSLRDESQRKKEQDKLQREKDLAKQERKEKEKKRTQRGERKR

>sp|Q96ER9|CCD51\_HUMAN Coiled-coil domain-containing protein 51 OS=Homo sapiens GN=CCDC51  
PE=1 SV=2

MMGRSPGFAMQHIVGVPHVLVRRGLGRDLFMRTRLCSGPSQPGEKRPEEVALGLHHRL  
PALGRALGHSIQQRATSTAKTWWDREYEFVGLNEVREAQGVTEAEKVMVARGLVREAR  
EDLEVHQAKLKEVRDRLDRVSREDSQYLELATLEHRMLQEEKRLRTAYLRAEDSEREKFS  
LFSAAVRESHEKERTRAERTKNWSLIGSVLGALIGVAGSTYVNRVRLQELKALLLEAQKG  
PVSLQEATIREQASSYSRQQRDLHNLMDLRLGLVHAAGPGQDSGSQAGSPPTRDRDVLVS  
AALKEQLSHSRQVHSCLEGLREQLDGLEKCSQMAGVVQLVKSAAHPGLVEPADGAMPSPF  
LLEQGSMLILASDTEQRLEAQVNRNTIYSTLVTCVTFVATLPVLYMLFKAS

>sp|Q8NELO|CCD54\_HUMAN Coiled-coil domain-containing protein 54 OS=Homo sapiens GN=CCDC54  
PE=1 SV=2

MYTLHTRVKAAARQMWTSNLSKVRQSLKNVYHKCKIRHQDSTGYPTVTSDDCNQDDDSY

DGKMNLVVVLQDVKTAQVELFSQMTDIVHMIPKVQEKTDLYQKQMEVLETRMNVNEDKQC  
TTTKDILSMKEDIKALKKKVTELEIQNSCSTIHCLILEGERGKEITELLYKLIQPATLK  
NTLASTDMEISSAEPEKVPSYPKSTDHLEKKTISPQMKTLKRNHQNASRSFEKAKPNIY  
IYPDFSTWIKLTFVHGGKWTFFLSATKLEEFIQWLLSRPTILPEEPQVITQRYCPTGPI  
LSLTTICLSIFNNIYGFICSLKEEVTRL

>sp|A6NI79|CCD69\_HUMAN Coiled-coil domain-containing protein 69 OS=Homo sapiens GN=CCDC69  
PE=1 SV=1

MGRHSRLSSCKPPKKRQEPEPEQPPRPEPHELGPLNGDTAIVQLCASEEAERHQKDI  
TRILQQHEEEKKKWAQQVEKERELELRDRLDEQQRVLEGKNEEALQVLRASYEQEKEALT  
HSFREASSTQQETIDRLTSQLEAFQAKMKRVEESILSRNYKKHIQDYGSPSQFWEQELES  
LHFVIEMKNERIHELDRRLILMETVKEKNLILEEKITTQQENEDLHVRSRNQVLSRQL  
SEDLTTLTREALEKEVQLRRQLQQEKEELLYRVLGANASPAFPLAPVTPTEVSFLAT

>sp|Q86UT8|CCD84\_HUMAN Coiled-coil domain-containing protein 84 OS=Homo sapiens GN=CCDC84  
PE=1 SV=1

MAPAQRCLCRQTFFCGRGHVYSRKHQRLKEALERLLPQVEAARKAIRAAQVERYVPEH  
ERCCWCLCCGCEVREHLSHGNLTVLYGGLLEHLASPEHKKATNKFWWENKAEVQMKEKFL  
VTPQDYARFKSMVKGLDSYEEKEDKVIKEMAAQIREVEQSRQEVRSVLEPQAVDPPEE  
GSSAPRSWKGMNSQVASSLQQPSNLDLPPAPELDWMETGPSLTFIGHQDIPGVGNIHSGA  
TPPWWIQDEEYIAGNQEIGPSYEEFLKEKEKQKLKKLPPDRVGANFDHSSRTSAGWLPSF  
GRVWNNGRRWQSRHQFKTEAAAMKKQSHTEKS

>sp|Q9NVE4|CCD87\_HUMAN Coiled-coil domain-containing protein 87 OS=Homo sapiens GN=CCDC87  
PE=1 SV=2

MMPEPKPEPELQRFYHRLRLPLSLFPTRTTSPEPQKRPPQEGRILQSFPLAKLTVASLCS  
QVAKLLAGSGIAAGVPPEARLRLIKVILDELKCSWREPPAELSLSHKNNQKLKRLEAYV  
LLSSEQLFLRYLHLLVTMSTPRGVFTESATLTRLAASLARDCTLFLTSPNVYRGLLADFQ  
ALLRAEQASGDVDKLPVCPAGTFKLCPIPWPHSTGFAQVQCSNLLNYLIQLSRPPEFL  
NEPGRMDPVKELKSIPRLKRKKPFHWLPSIGKKREIDISSQMVSLSYPVAPTSRASPS  
PFCPELRRGQSMPSLREGWRLADELGLPPLPSRPLTPLVLATESKPELTGLIVAEDLKQL  
IKMKLEGTRYPLDGLPPLLVVTRHPAAGHRLEELEKMLRNLQEEEASQWDPQPPK  
SFPLHPQPVTTITLKLNEVVVQAAAVRVSDRNFLDSFHIEGAGALYNHLAGELDPKAIK  
MDIDNFVGSTTREYKELMSHVSSDHLHFDQGPLVEPAADKDWSTFLSSAFLRQEQPQI  
INPELVGLYSQRANTLQSNKKMPSLPSLQATKSWEKWSNKASLMNSWKTTLSVDDYFKY  
LTNHETDFLHVIFQMHEEEVPVEIVAPARESLEIQHPPPLLEDEEPDFVPGEDWNTVLE  
HRLGAGKTPHLGEPHKILSLQKHLEQLWSVLEVDPKDQVDMTIKYSSKARLRQLPSLVNA  
WERALKPIQLREALLARLEWFEGQASNPNRFFKKTNLSSHFLEENQVRSHLHRKLNLM  
SSLVSLLEEIELIFGEPVIFKGRPYLDKMKSDKVEMLYWLQQQRRVRHLVSALKDPHQST  
LFRSSAASL

>sp|Q53HC0|CCD92\_HUMAN Coiled-coil domain-containing protein 92 OS=Homo sapiens GN=CCDC92  
PE=1 SV=2

MTSPHFSSYDEGPLDVSMATNLENQLHSAQKNLLFLQREHASTLKGLHSEIRRLQQHCT  
DLTYELTVKSSEQTGDGTSKSELKKRCEELEAQLKVKENENAELLKELEQKNAMITVLE  
NTIKEREKKYLEELKAKSHKLTLSSSELEQRASTIAYLTSQLHAAKKLMSSSGTSDASP  
SGSPVLASYKPAPPKDKLPETPRRRMKKSLSAPLHPEFEEVYRFGAESRKLLLREPVDAM  
PDPTPFLLARESAEVHLIKERPLVIPPIASDRSGEQHSPAREKPHKAHVGVAHRIHHATP

MASGRGASSRWFFTREQLENTPSRRCGVEADKELSCRQQAANLIQEMGQRLNVSQLTINT  
AIVYMHRFYMHSFTKFNKNIISSTALFLAAKVEEQARKLEHVIVAHACLHPLEPLDT  
KCDAYLQQTQELVILETIMLQTLGFEITIEHPHTDVVKCTQLVRASKDLAQTSYFMATNS  
LHLTTFCLQYKPTVIACVCIHLACKWSNWEIPVSTDGKHWWVEYDPTVTLELDELTHEF  
LQILEKTPNRLKKIRNWRANQAARKPKVDGQVSETPLLGSLSVQNSILVDSVTGVPTNPS

FQKPSTSAFPAPVPLNSGNISVQDSHTSDNLSMLATGMPSTSYGLSSHQEWPHQDSART  
EQLYSQKQETSLSGSQYNINFQQGPSISLHSGLHHRPDKISDHSSVKQEYTHKAGSSKHH  
GPISTTPGIIPQKMSLDKYREKRKLETLDLDVRDHYIAAQVEQQHKQGGSQAASSSSVTS  
PIKMKIPIANTEKYMADKKEKSGSLKLRIPIPPTDKSASKEELKMKIKVSSSERHSSSDE  
GSGSKHSSPHISRDKHEKHKEHPSSRHHTSSHKHSHSHSGSSSGGSKHSADGIPPTVLR  
SPVGLSSDGISSSSSSSRKRLHVNDASHNHHKMSKSSKSSGSSSSSSSSSVKQYISSHNS  
VFNHPLPPPPPVTYQVGYGHLSTLVKLDKKPVETNGPDANHEYSTSSQHMDYKDTFDMLD  
SLLSAQGMNM

>sp|Q9ULG6|CCPG1\_HUMAN Cell cycle progression protein 1 OS=Homo sapiens GN=CCPG1 PE=1  
SV=3

MSSENSDSDSSCGWTVISHEGSDIEMLSVTPTDSCEPAPECSSLEQEELQALQIEQGES  
SQNGTVLMEETAYPALEETSSSTIEAEEQKIPEDSIYIGTASDDSDIVTLEPPKLEEIGNQ  
EVVIVEEAQSSSEDFNMGSSSSSQYTFQCPETVFSSQPSDDESSSDETSQPSPAFRRRRA  
RKKTVSASESEDRLVAEQETEPSKELSKRQFSSGLNKCIVILALVIAISMFGFHYGTIQI  
QKRQQLVRKIHEDELNDMKDYLSCQEQEQESFIDYKSLKENLARCWTLEAEKMSFETQK  
TNLATENQYLRVSLEKEEKALSSLQEELNKLREQIRILEDKGTSTELVKENQKLKQHLEE  
EKQKKHSFLSQRETLTTEAKMLKRELERERLVTALRGELQQLSGSQLHGKSDSPNVYTE  
KKEIAILRERLTELERKLTFEQQRSDLWERLYVEAKDQNGKQGTGKKKGGRGSHRAKNK  
SKETFLGSVKETFDAMKNSTKEFVRHHKEKIKQAKEAVKENLKKFSDSVKSTFRHFKDTT  
KNIFDEKGNKRFGATKEAAEKPRTVFSDYLHPQYKAPTENHHNRGPTMQNDGRKEKPVHF  
KEFRKNTNSKKCSPGHDCRENSHSFRKACSGVFDAQQESMSLFNTVVNPIRMDEFRII  
QRYMLKELDTFCHWNELDQFINKFFLNGVF IHDQKLFTDFVNDVKDYLRNMKEYEVDNDG  
VFEKLDEYIYRHHFGHTFSPPYGPRSVYIKPCHYSSL

>sp|P46092|CCR10\_HUMAN C-C chemokine receptor type 10 OS=Homo sapiens GN=CCR10 PE=1 SV=3

MGTEATEQVSWGHYSGDEEDAYSAEPLPELCYKADVQAFSRAFPQSVSLTVAALGLAGNG  
LVLATHLAARRAARSPTSAHLLQLALADLLLALTLPFAAAGALQGWSLGSATCRTISGLY  
SASFHAGFLFLACISADRYVAIARALPAGPRPSTPGRAHLVSVIVWLLSLLLALPALLFS  
QDGGQREGQRRCLIFPEGLTQTVKGASAVAQVALGFALPLGVMVACYALLGRTLLAARGP  
ERRRALRVVVALVAAFVVLQLPYSLALLDADLLAARERSCPASKRKDVALLVTSGLAL  
ARCGLNPVLYAFLGLRFRQDLRRLRGGSCPSGPQPRRGCPRRPRLSSCSAPTETHSLSW  
DN

>sp|P51677|CCR3\_HUMAN C-C chemokine receptor type 3 OS=Homo sapiens GN=CCR3 PE=1 SV=1

MTTSLDTVETFGTTSYDDVGLLCEKADTRALMAQFVPPYLSLVFTVGLLGNVVVMILI  
KYRRLRIMTNIYLLNLAISDLLFLVTLFPWIHYVRGHNVVFGHGMCKLLSGFYHTGLYSE  
IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE  
TLCALYPEDTVYSWRHFHTLRMTIFCLVPLLVMAICYTGIIKTLLRCPSKKKYKAIRL  
IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVI  
YAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPESIVF

>sp|P51679|CCR4\_HUMAN C-C chemokine receptor type 4 OS=Homo sapiens GN=CCR4 PE=1 SV=1

MNPTDIADTTLDESIYSNYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVV  
VLVLFKYKRLRSMTDVYLLNLAISDLLFVFSLPFWGYAADQWVFGGLCKMISWMYLVG  
FYSGIFFVMLMSIDRYLAIVHAVFSLRARTLYGVITSLATWSVAVFASLPGLFSTCYT  
ERNHTYCKTKYSLNSTTWKVLSSLEINILGLVIPLGIMLFCYSMIIRTLQHCKNEKKNKA  
VKMIFAVVVFLGFWTPYNIVLFLETLVELEVLQDCTFERYLDAIQATETLAFVHCCLN

PIIYFFLGEEKFRKYILQLFKTCRGLFVLCQYCGLLQIYSADTPSSSYTQSTMDHDLHDAL

>sp|P86791|CCZ1\_HUMAN Vacuolar fusion protein CCZ1 homolog OS=Homo sapiens GN=CCZ1 PE=1 SV=1

MAAAAAGAGSGPWAAQEQFPALLSFFIYNPRFGPREGQEENKILFYHPNEVEKNEKIR  
NVGLCEAIVQFTRTFSPSKPAKSLHTQKNRQFFNEPEENFWMVMVVRNP IIEKQSKDGKP  
VIEYQEEELLDKVYSSVLRQCYSMYKLFNGTFLKAMEDGGVKLLKERLEKFFHRYLQTLH  
LQSCDLLDIFGGISFFPLDKMTYLKIQSFINRMESLNIVKYTAFLYNDQLIWSGLEQDD  
MRILYKYLTTSLFPRHIEPELAGRDSPIRAEMPGNLQHYGRFLTGPLNLNDPAKCRFPK  
IFVNTDDTYEELHLIVYKAMSAAVCFMIDASVHPTLDFCRRLDSIVGPQLTVLASDICEQ  
FNINKRMSGSEKEPQFKFIYFNHNMNLAEKSTVHMRKTPSVSLTSVHPDLMKILGDINSDF  
TRVDEDEEIIVKAMSDYVWVGKSDRRELYVILNQKNANLIEVNEEVKKLCATQFNNIFF  
LD

>sp|Q53FE4|CD017\_HUMAN Uncharacterized protein C4orf17 OS=Homo sapiens GN=C4orf17 PE=2 SV=3

MNLNPPTSALQIEGKGSHIMARNVSCFLVRHTPHPRRVCHIKGLNNIPICTVNDDENAFG  
TLWVGQSNYLEKNRIPFANCSTAVQESPVRGMSPAPNGAKVPPRPHSEPSRKIKE  
CFKTSENPLVIKKEEIKAKRPPSPKACSTPGSCSSGMTSTKNDVKANTICIPNYLDQE  
IKILAKLCSILHTDSLAEVLQWLLHATSKEKEWVSALIHSELAEINLLTHHRRNTSMEPA  
AETGKPPTVKSPPTVKLPPNFTAKSKVLTRDTEGDQPTRVSSQGSEENKEVPKEAEHKPP  
LLIRNNMKIPVAEYFSKPNPPRPNTQESGSAKPVSARSIQEYNLCPQRACYPSTHRR

>sp|Q6ZRC1|CD050\_HUMAN Uncharacterized protein C4orf50 OS=Homo sapiens GN=C4orf50 PE=2 SV=1

MLRDSEAEVTEEDPRLRAQQLHHRVLTLCQLRDQGAHQASLDEATRLQEELQAKLEEL  
QKKQHEAKLAVTPLKAKIASLVRKCRERNRLITHLLQELHRHGLGNLLSELAQNMLNDV  
ALAEYTATFLAPGVPETSHHLDVKSEMTAALRAQTYLLNPEMDSVLQSSLSSESWSPIPEP  
EWPAQTAQLDSLKLPLSLVSTLDPGTCLAAVTVEPGLPAQRLQEKGGMPCPALQVDNVPA  
PSELLSPARILAFHQELRQSICSNSQVHKSPLELEM

>sp|P08571|CD14\_HUMAN Monocyte differentiation antigen CD14 OS=Homo sapiens GN=CD14 PE=1 SV=2

MERASCLLLLLLPLVHVSATTPEPCELDDEDFRCVCNFSEPQPDWSEAFQCVSAVEVEIH  
AGGLNLEPFLKRVDADADPRQYADTVKALRVRLTVGAAQVPAQLLVGALRVLAYSRLKE  
LTLEDLKITGTMPPLPLEATGLALSSLRLRNVSATGRSWLAELQQWLKPLKVLSTIAQA  
HSPAFSCEQVRAFPAITSLDLSNPGLGERGLMAALCPHKFPAIQNLALRNTGMETPTGV  
CAALAAAGVQPHSLDSLHNSLRATVNPSAPRCMWSSALNSLNSFAGLEQVPKGLPAKLR  
VLDLSCNRLNRAPQPDELPEVDNLTDGNPFLVPGTALPHEGSMNSGVVPACARSTLSVG  
VSGTLVLLQGARGFA

>sp|A8MXV6|CD15L\_HUMAN CMT1A duplicated region transcript 15 protein-like protein OS=Homo sapiens GN=CDRT15L2 PE=2 SV=1

MFSCCFPTSRGCCFRNGGSESLFRQCRRLIPHPRRLWPFVRRRTQVPQDSPGQALAGQA  
TPEIPSGPLPHIVLVQEEIREPMEAQTHAPGPYADIAALAAVEPKPAWEEPPPERALE  
VEGAPAKDQPSQELPEIMAPTATGLNAGAENVAGERSGREGVTSTAPASRSHAAPSPGH  
GGKHGGDQGIQTGLLYLAGERLLSFAGTTALLQGLFIVLILVGYISVKVMLKSIKTRL  
GRRVPAAPPALRRNLLLQAWKCVCNWSRLFAPNVLPRTGS

>sp|Q13740|CD166\_HUMAN CD166 antigen OS=Homo sapiens GN=ALCAM PE=1 SV=2

MESKGASSCRLLFCLLISATVFRPGLGWYTVNSAYGDTIIIPCRLDVPQNL MFGKWKEYK  
PDGSPVFI AFRSSTKKSQYDDVPEYKDRLNLS ENYTL S ISNARISDEKRFVCM LVTEDN  
VFEAPTIVKVFKQPSKPEIVSKALFLETEQLKKLGDCISED SYPDGNITWYRNGKVLHPL  
EGAVV IIFKKEMDPVTQLYTMSTLEYKTTKADIQMPFTCSVTYYGPGSQKTIHSEQAVF  
DIYYPTEQVTIQVLPPKN AIKEGDNITLKCLGNGNPPPEEFLFYLPGQPEGIRSSNTYTL  
TDVRRNATGDYKCSLIDKKS MIAS TAITVHYLDLSLNPSGEVTRQIGDALPVSCTISASR  
NATVWMKDNIRLRSSPSFSSLHYQDAGNYVCETALQEVEGLKKRESLTLIVEGKPQIKM  
TKKTDPSGLSKTII CHVEGFKPQAIQWTITGSGSVINQTEESPYINGRYYSKIIISPEEN  
VTLTCTAENQLERTVNSLNVSAISIPEHDEADEISDENREKVNDQAKLIVGIVVGLLLAA  
LVAGVVYWLYMKKSKTASKHVNKDLGNMEENKKLEENNHKTEA

>sp|P15391|CD19\_HUMAN B-lymphocyte antigen CD19 OS=Homo sapiens GN=CD19 PE=1 SV=6

MPPPRLLFFLLFLTPMEVRPEEPLVVKVEEGDNAVLQCLKGTS DGPTQQLTWSRESPLKP  
FLKLSLGLPGLGIHMRPLAIWLFIFNVSQQMGGFYLCQPGPPSEKAWQPGWTVNVEGSGE  
LFRWNVSDLGGLGCLKNRSSEGPSSPSGKLMSPKLYVWAKDRPEIWEGEPPCLPPRDSL  
NQSLSQDLTMAPGSTLWLSGVPDPSVSRGPLSWTHVHPKGPKSLLSLELKDDRPARDMW  
VMETGLLLPRATAQDAGKYCHRGNL TMSFHLEITARPVLWHWLLRTGGWKVSAVTLAYL  
IFCLCSLVGILHLQRALVLRKRKRMTDPTRRFFKVTPPPGSGPQNQYGNVLSLPTPTSG  
LGRAQRWAAGLGGTAPSYGNPSSDVQADGALGSRSPPGVGPEEEEGEGYEEDSEEDSEF  
YENDSNLGQDQLSQDGSYENPEDEPLGPEDEDSFSNAESYENEDEELTQPVARTMDFLS  
PHGSAWDPSREATSLGSQSYEDMRGILYAAPQLRSIRGQPGPNHEEDADSYENMDNPDGP  
DPAWGGGGRMGTWSTR

>sp|P06126|CD1A\_HUMAN T-cell surface glycoprotein CD1a OS=Homo sapiens GN=CD1A PE=1 SV=4

MLFLLLPLLA VLPDGNADGLKEPLSFHVTWIASFYNH SWKQNLVSGWLSDLQHTWDSN  
SSTIVFLCPWSRGNFSNEEWKELET LFRIRTIRSFEGIRRYAHELQFEYPFEIQVTGGCE  
LHSGKVSQSFLQLAYQGSDFVSFQNNSWLPYPVAGNMAKHFCVLNQNQHENDITHNLLS  
DTCPRFILGLLDAGKAHLQRQVKPEAWLSHGPPSPGPHLQLVCHVSGFYKPVVWMMRG  
EQEQQGTQRGDILPSADGTWYLRATLEVAAGEAADLSCRVKHSSLEGQDIVLYWEHHSSV  
GFIIILAVIVPLLLLIGLALWFRKRCFC

>sp|P15812|CD1E\_HUMAN T-cell surface glycoprotein CD1e, membrane-associated OS=Homo sapiens GN=CD1E PE=1 SV=2

MLLLFLLFEGLCCPGENTAAPQALQSYHLAAEEQLSFRMLQTSSFANH SWAHSEGSGLG  
DLQTHGWDTVLGTIRFLKPWSHG NFSKQELKNLQSLFQLYFHSFIQIVQASAGQFQLEYP  
FEIQILAGCRMNAPQIFLN MAYQGSDFLSFQGISWEPSPGAGIRAQ NICKVLNRYLDIKE  
ILQSLLGHTCPRFLAGLMEAGESELKRKVKPEAWLSGPPSPGPHLQLVCHVSGFYKPV  
WVWMMRGEQEQRGTQRGDVLPNADETWYLRATLDVAAGEAAGLSCRVKHSSLGHDLI IH  
WGGYSIFLILICLTVIVTLVILVVDSRLKKQSSNKNILSPHTPSPVFLMGANTQDTKNS  
RHQFCLAQVSWIKNRVLKKWKTRLNQLW

>sp|P20273|CD22\_HUMAN B-cell receptor CD22 OS=Homo sapiens GN=CD22 PE=1 SV=2

MHLLGPWLLLLVLEYLA FSDSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFH  
NPEYNKNTSKFDGTRLYESTKDGKVPSEQKRVQFLGDKNKNTLSIHPVHLNDSGQLGLR  
MESKTEKWMERIHLNVSERPFPPIQLPPEIQESQEVTLTCLLNFS CYGYPIQLQWLLEG  
VPMRQAAVTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKH  
TPKLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVT  
KDQSGKYCCQVSNVGPGRSEEVFLQVQY APEPSTVQILHSPA VEGSQVEFLCMSLANPL



PTNYTWYHNGKEMQGRTEEKVHIPKILPWHAGTYSCVAENILGTGQRGPGAELDVQYPPK  
KVTTVIQNPMPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAWEPSLGLKIQNVGWDNT  
TIACAACNSWCSWASPVALNVQYAPRDVVRKIKPLSEIHSGNSVSLQCDFSSSHPKVEQ  
FFWEKNGRLLGKESQLNFDISPEDAGSYSCWVNSIGQTASKAWTLEVLYAPRRLRVSM  
SPGDQVMEGKSATLTCESDANPPVSHYTWFDWNNQSLPYHSQKLRLPEVKVQHSGAYWCQ  
GTNSVGKGRSPLSTLTVYYSPETIGRRVAVGLGSCLAAILLAICGLKLQRRWKRTQSQQG  
LQENSSGQSFFVRNKKVRRAPLSEGPLSLGCYNPMMEDGISYTTLRFPENIPIRTGDAES  
SEMQRPPPCDDTVTYSALHKRQVGDYENVIPDFPEDEGIHYSELIQFGVGERPQAQENV  
DYVILKH

>sp|Q9BZW8|CD244\_HUMAN Natural killer cell receptor 2B4 OS=Homo sapiens GN=CD244 PE=1  
SV=2

MLGQVVTILLLLLKVYQGKGCQGSADHVVISGVPLQLQPNISITKVDSIAWKKLLPSQ  
NGFHHILKWENGLSPNTSNDRFSEIVKNLSLLIKAAQQQDSGLYCLEVTSISGKVQTAT  
FQVVFVESLLPDKVEKPRLQGQKILDRGRCQVALSCLVSRDGNVSYAWYRGSKLIQTAG  
NLTYLDEEVDINGHTYTCNVSNPVSWESHTLNLTDQCQNAHQEFRWPFVLIIIVILSAL  
FLGTLACFCVWRRKRKEKQSETSPKEFLTIIYEDVKDLKTRRNHEQEQTFFGGGSTIYSMI  
QSSSAPTSQEPAYTLYSLIQPSRKSGSRKRNHSPSFNSTIYEVIGKSQPKAQNPARLSR  
KELENFDVYS

>sp|P16070|CD44\_HUMAN CD44 antigen OS=Homo sapiens GN=CD44 PE=1 SV=3

MDKFWWHAAGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEADLCKAFNSTL  
PTMAQMEKALSIGFETCRYGFIEGHVVIPIHPNSICAAANTGVYILTSNTSQYDTYCFN  
ASAPPEEDCTSVTDLPNAFDGPITITIVNRDGRYVQKGEYRTNPEDIYPSNPTDDDVSS  
GSSSERSSTSGGYIFYTFTVHPIDEDSPWITDSTDRIPTATLMSTSATATETATKRQE  
TWDWFSWLFLPSESKNHLHTTTQMAGTSSNTISAGWEPNEENEDERDRHLSFSGSGIDDD  
EDFISSTISTTPRAFDTKQNDWTQWNPSHSNPEVLLQTTTRMTDVRNGTTAYEGNWN  
PEAHPPLIHHEHHEEETPHSTSTIQATPSSTTEETATQKEQWFGNRWHEGYRQTPKEDS  
HSTTGTAASAHTSHPMQGRTPSPEDSSWTDFFNPISHPMGRGHQAGRMDMDSSHSIT  
LQPTANPNTGLVEDLDRGTPLSMTTQQSNSQSFSTSHGLEEDKDHPPTSTLTSSNRNDV  
TGRRDPNHSEGSTTLLEGYTSHPHTKESRTFIPVTSAKTGSFGVTAVTVGDSNSNVNR  
SLSGDQDTFHPSGGSHTTHGSESDGSHSGSQEGGANTTSGPIRTPQIPEWLIILASLLAL  
ALILAVCIAVNSRRRCGQKKKLVINSGNGAVEDRKPSGLNGEASKSQEMVHLVNKESSET  
PDQFMTADETRNLQNVDMKIGV

>sp|P30203|CD6\_HUMAN T-cell differentiation antigen CD6 OS=Homo sapiens GN=CD6 PE=1 SV=3

MWLFFGITGLLTAALSGHPSAPPDQLNTSSAESELWEPGERLPVRLTNGSSSCSGTVEV  
RLEASWEPACGALWDSRAAEAVCRALGCGGAEAAASQLAPPTPELPPPPAAGNTSVAANAT  
LAGAPALLCSGAEWRLCEVVEHACRSDGRRARVTCAENRALRLVDGGGACAGRVEMLEHG  
EWGSVCDDTDLEDAHVVCRQLGCGWAVQALPGLHFTPGRGPIHRDQVNCSGAEAYLWDC  
PGLPGQHYCGHKEDAGAVCSEHQSWRLTGADRCEGQVEVHFRGVWNTVCDSEWYPSEAK  
VLCQSLGCGTAVERPKGLPHSLSGRMYYSNGEELTSLNCSWRFNNSNLCSQSLAARVLC  
SASRSLHNLSTPEVPASVQTVTIESSVTVKIENKESREMLLIPSIVLGILLGSLIFIA  
FILLRIKGYALPVMVNHQHLPTTIPAGSNSYQVPVITIPKEVFMLPIQVQAPPPEDSDS  
GSDSDYEHYDFSAPPVALTTFYNSQRHRVTDEEVQQSRFQMPPLEEGLEELHASHIPTA  
NPGHCITDPPSLGPQYHPRSNSSESSTSSGEDYCNSPKSKLPPWNPQVFSSERSSFLEQPP  
NLELAGTQPAFSAGPPADSSSTSSGEWYQNFQPPPQPPSEEQFGCPGSPSPQPDSTDND

DYDDISAA

>sp|P21854|CD72\_HUMAN B-cell differentiation antigen CD72 OS=Homo sapiens GN=CD72 PE=2 SV=1

MAEAITYADLRFVKAPLKKSISRLGQDPGADDDGEITYENVQVPAVLGVPSSSLASSVLG  
DKAAVKSEQPTASWRAVTSPAVGRILPCRTTCLRYLLLGLLLTCLLLGVTATCLGVRYLQ  
VSQQLQQTNRVLEVNTSSLRQQRLRLKITQLGQSAEDLQGSRRRLAQSQEALQVEQRAHQA  
AEGQLQACQADRQKTKETLQSEEQRRRALEQKLSNMENRLKPFFTCGSADTCCPSGWIMH  
QKSCFYISLTSKNWQESQKQCETLSSKLATFSEIYPQSHSYFLNSLLPNGGSGNSYWTG  
LSSNKDWKLTDDTQTRTRYAQSSCKNKVHKTWSWWTLESESCRSSLPYICEMTAFRFPD

>sp|P11912|CD79A\_HUMAN B-cell antigen receptor complex-associated protein alpha chain OS=Homo sapiens GN=CD79A PE=1 SV=2

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSN  
NANVTWWRVLHGNYTWPPEFLGPGEDPNGTLIIQNVNKS HGGIYVCRVQEGNESYQQSCG  
TYLRVRQPPRPFLDMGEGTKNRIITAEGIILLFCAVVP GTLLLFRKRWQNEKLGLDAGD  
EYEDENLYEGLNLDDCSMYEDISRGLQGTQDVGSLNIGDVQLEKP

>sp|P40259|CD79B\_HUMAN B-cell antigen receptor complex-associated protein beta chain OS=Homo sapiens GN=CD79B PE=1 SV=1

MARLALSPVPSHWMVALLLLLSAEPVPAARSED RYRNPKGSACSRIWQSPRFIARKRGFT  
VKMHCYMNSASGNVSWLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIY  
FCQKQCNTSEVYQCGGT ELRVMGFSTLAQLKQRNTLKDGIIMIQTLLIILFIIVPIFLL  
LDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEHPGQE

>sp|P09564|CD7\_HUMAN T-cell antigen CD7 OS=Homo sapiens GN=CD7 PE=1 SV=1

MAGPPRLLLLPLLLALARGLPALAAQEVQQSPHCTTVPVGASVNITCSTSGGLRGIYLR  
QLGPPQPDIIYYEDGVVPTTDRRFRGRIDFSGSQDNLITIMHRLQLSDTGTYTCAITEV  
NVYSGTLLVLVTEESQGWHRCS DAPPRASALPAPPTGSALPDPQTASALPDPPAASALP  
AALAVISFLLGLGLGVACVLARTQIKKLCSWRDKNSAACVVYEDMSHSRCNTLSSPNQYQ

>sp|Q01151|CD83\_HUMAN CD83 antigen OS=Homo sapiens GN=CD83 PE=1 SV=1

MSRGLQLLLLSCAYSLAPATPEVKVACSEDVDLPCTAPWDPQVPYTVSWVKLLEGGEERM  
ETPQEDHLRGQHYHQKGQNGSFDAPNERPYSLKIRNTTSCNSGTYRCTLQDPDQQRNL SG  
KVILRVTGCPAQRKEETFKKYRAEIVLLLALVIFYLTLIIFTCKFARLQSIFPDFSKAGM  
ERAFLPVTSPNHLGLVTPHKTEL V

>sp|A6NJW9|CD8BL\_HUMAN Putative T-cell surface glycoprotein CD8 beta-2 chain OS=Homo sapiens GN=CD8BP PE=5 SV=2

MRPRLWLLLAQLTVLHGNSVLQQTPAYIKVQTNKMVMLSCEAKISLSNMCIYWLRQRQA  
PSSDSHHEFLTLWDSAKGTIHGEEVEQEKIAVFRDASRFILNLTSVKPEDSGIYFCMIVG  
SPELTFGKGTQLSVVDFLPTTAQPTKKSTLKKRVCRLRPETQKGPLCSPVTLGLLVAG  
VLVLLVSLGVAMHLCCRRRRARLRFMKQLYK

>sp|Q9BWV3|CDAC1\_HUMAN Cytidine and dCMP deaminase domain-containing protein 1 OS=Homo sapiens GN=CDADC1 PE=2 SV=1

MKEAGQMQLNLESARAGRSVSTQTGSMTGQIPRLSKVNLFTLLSLWMELFPAEAQRQKSQK  
NEEGKHGPLGDNEERTRVSTDQRQVKRTGLVVKNMKIVGLHCSSDLHAGQIALIKHGS  
RLKNCDLYFSRKPCSACLKMIVNAGVNRISYWPADPEISLLTEASSSEDAKLDAKAVERL  
KSNSRAHVCVLLQPLVCYMQVFEETSYKCDFIQKITKTLPDANTDFYVECKQERIKEYE  
MLFLVSNEEMHKQILMTIGLENLCENPYFSNLRQNMKDLILLATVASSVPNFKHFGFYR

SNPEQINEIHNQSLPQEIARHCMVQARLLAYRTEDHKTGVGAVIWAEGKSRSCDGTGAMY  
FVGCYNAPFVGSEYADFPHMDDKQKDREIRKFRYIIHAEQNALTFRCQEIKPEERSMIF  
VTKPCDCECVPLIKGAGIKQIYAGDVDVGKKKADISYMRFGELGVSKFTWQLNPSGAYG  
LEQNEPERRENGVLRPVPQKEEQHQDKKLRLGIH

>sp|Q9UJX2|CDC23\_HUMAN Cell division cycle protein 23 homolog OS=Homo sapiens GN=CDC23  
PE=1 SV=3

MAASTMVPVAVTAAPVLSINSDFSDLREIKKQLLLIAGLTRERGLLHSSKWSAELAF  
SLPALPLAELQPPPPITEEDAQMDAYTLAKAYFDVKEYDRAAHFLHGCNSKKAYFLYMY  
SRYLSGEKKKKDDETVDSLGPLEKGQVKNEALRELRLVELSKKHQARELDGFGLYLYGVVLR  
KLDLVKEAIDVFVEATHVLPPLHWGAWLELCNLITDKEMLKFLSLPDTWMKEFFLAHIYTE  
LQLIEEALQKYQNLIDVGFSSSYIVSQIAYAYHNIRDIDKALSIFNELRKQDPYRIENM  
DTFSNLLYVSRMSKSELSYLAHNLCIEDKYRVETCCVIGNYSLRSQHEKAALYFQRALKL  
NPRYLGAWTLMGHEYMEMKNTSAAIQAYRHAIEVNKRDIYRAWYGLGQTYEILKMPFYCLY  
YYRRAHQLRPNDSRMLVALGECYEKLNQLVEAKKCYWRAYAVGDVEKMALVKLAKLHEQL  
TESEQAAQCYIKYIQDIYSCGIEVHLEESTAFLRYLAQYFCKKLWDEASTCAQKCCAFN  
DTREEGKALLRQILQLRNQGETPTTEVPAPFFLPASLSANNTPTRRVSPLNLSSVTP

>sp|Q9NYV4|CDK12\_HUMAN Cyclin-dependent kinase 12 OS=Homo sapiens GN=CDK12 PE=1 SV=2

MPNSERHGGKKDGSAGTLQSSGGSSNSRERHRLVSKHKRHKSKHSDMGLVTPEA  
ASLGTVIKPLVEYDDISSDSTFSDDMAFKLDRRENDERRGSDRSRLHKHRHHQHRRSR  
DLLKAKQTEKEKSQEVSSKSGSMKDRISGSSKRSNEETDDYGKAQVAKSSSKESRSSLKH  
KEKTRKERELKSGHKDRSKSHRKRETPKSYKTVDSPKRRSRSPHRKWSDSKQDDSPSGA  
SYGQDYDLSPSRSHTSNYDSYKSPGSTSRRQSVSPPYKEPSAYQSSTRSPSPYSRRQR  
SVSPYSRRRSSSYERSGYSGRSPSPYGRRRSSSPFLSKRSLRSPLPSRKSMKSRSRSP  
AYSRHSSSHSKKKRSSRSRHSSISPVRLPLNSSLGAELSRKKKRAAAAAAAKMDGKES  
KGSPVFLPRKENSSEVAKDSGLESKKLPRSVKLEKSAPDTELNVNTHLNTVKNSSDTGK  
VKLDENSEKHLVKDLKAQGTDRSKPIALKEEIVTPKETETSEKETPPPLPTIASPPPLP  
TTTTPPQTPLPLPLPIPALPQQPPLPPSQPAFSQVPASSTSTLPPSTHSKTSAVSSQAN  
SQPPVQVSVKTVSVTAAIPLHKTSTLPLPLPLPGDDMDSPKETLPSKPVKKEKEQ  
RTRHLLTDLPLPELPGDLSPDSEPKAITPPQQPYKKRPKICCPRYGERRQTESDWG  
KRCVDKFDIIGIIGEGTYGQVYKAKDKDTGELVALKKVRLDNEKEGFPITAIKILRQ  
LIHRSVVMKEIVTDKQDALDFKKDKGAFYLVFEYMDHDLMLLESGLVHFSEDHIKFSM  
KQLMEGLEYCHKNFLHRDIKCSNILLNNSGQIKLADFLARLYNSEESRPYTNKVITLW  
YRPELLLLGEERYTPAIDVWSCGILGELFTKKPIFQANLELAQLELISRLCGSPCPAVW  
PDVIKLPYFNTMKPKKQYRRRLREEFSFIPSAALDLLDHMLTLDPSKRCTAEQTLQSDFL  
KDVELSKMAPDPLPHWQDCHELWSKRRRRQRQSGVVVEPPPSKTSRKETTSGTSTEPVK  
NSSPAPPQPAPGKVESGAGDAIGLADITQQLNQSELAVLLNLLQSQTDLIPQMAQLLNI  
HSNPEMQQLEALNQSISALTEATSQQQDSETMAPEESLKEAPSAPVILPSAEQTTLEAS  
STPADMQNILAVLLSQLMKTQEPAGSLEENNSDKNSGPQGPRPTTMPQEEAACPPHIL  
PPEKRPPEPPGPPPPPPPLVEGDLSSAPQELNPAVTAALLQLLSQPEAEPPGHLPEH  
QALRPMEYSTRPRPNRTYGNTDGPETGFSIDTDERNNGPALTESLVQTLVKNRTFSGSL  
SHLGESSSYQGTGSVQFPGDQDLRFARVPLALHPVVGQPFLKAEGSSNSVVHAETKLQNY  
GELGPGTTGASSSGAGLHWGGPTQSSAYGKLYRGPTRVPPRGGRGVPY

>sp|Q9BWU1|CDK19\_HUMAN Cyclin-dependent kinase 19 OS=Homo sapiens GN=CDK19 PE=1 SV=1

MDYDFKAKLAAERERVELDFEYEGCKVGRGTYGHVYKARRKDGKDEKEYALKQIEGTGIS

MSACREIALLRELKHPNVIALQKVFLSHSDRKVWLLFDYAEHDLWHIIKFHRASKANKKP  
MQLPRSMVKSLLYQILDGIHYLHANWVLHRDLKPANILVMGEGPERGRVKIADMGFARLF  
NSPLKPLADLDPVVVTFWYRAPELLLGARHYTKAIDIWAIGCIFAELLTSEPIFHCRQED  
IKTSNPFHHDQLDRIFSVMGFPADKDWEDIRKMPEYPTLQKDFRRTTYANSSLIKMEKH  
KVKPDSKVFLLLQKLLTMDPTKRITSEQALQDPYFQEDPLPTLDVFAGCQIPYPKREFLN  
EDDPEEKGDKNQQQQNQHQQTAPPQQAAPPQAPPPQONSTQNTAGGAGAGVGGTG  
AGLQHSQDSSLNQVPPNKKPRLGPSGANS GGPMPSDYQHSSRLNYQSSVQGSSQSST  
LGYSSSSQSSQYHPSHQAHRV

>sp|P11802|CDK4\_HUMAN Cyclin-dependent kinase 4 OS=Homo sapiens GN=CDK4 PE=1 SV=2

MATSRYPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGLPISTVREVAL  
RRLEAFEHPNVVRLMDVCATSRDREIKVTLVFEHVDQDLRTYLDKAPPPGLPAETIKDL  
MRQFLRGLDFLHANCIVHRDLKPENILVTSSGTVKLADFLARIYSYQMALTPVVVTLWY  
RAPEVLLQSTYATPDMWSVGCIFAEMFRRKPLFCGNSEADQLGKIFDLIGLPEDDWPR  
DVSLPRGAFPPRGRPVQSVPEMEESGAQLLEMLTFNPHKRISAFRALQHSYLHKDEG  
NPE

>sp|Q00534|CDK6\_HUMAN Cyclin-dependent kinase 6 OS=Homo sapiens GN=CDK6 PE=1 SV=1

MEKDGLCRADQQYECVAEIGEGAYGKVKARDLKNGGRFVALKRVRVQTGEEGMPLSTIR  
EVAVLRHLETFEHPNVVRLFDVCTVSRTDRETKLTLVFEHVDQDLTTYLDKVPPEGPVTE  
TIKMMFQLLRGLDFLHSHRVVHRDLKPQNILVTSSGQIKLADFLARIYSFQMALTSVV  
VTLWYRAPEVLLQSSYATPVDLWSVGCIFAEMFRRKPLFRGSSDVDQLGKILDVIGLPGE  
EDWPRDVALPRQAFHKSQAQPIEFVTDIDELGKDLLKCLTFNPAKRISAYSALSHPYF  
QDLERCKENLDShLPPSQNTSELNTA

>sp|P50750|CDK9\_HUMAN Cyclin-dependent kinase 9 OS=Homo sapiens GN=CDK9 PE=1 SV=3

MAKQYDSVECPFCDEVSKYEKLAKIGQGTGGEVFKARHRKTGQKVALKKVLMENEKEGFP  
ITALREIKILQLLKHENVNLIIEICRTKASPYNRCKGSIYLVDFCEHDLAGLLSNVLVK  
FTLSEIKRVMQMLNGLYYIHRNKILHRDMKAANVLITRDGVLKLADFLARAFSLAKNS  
QPNRYTNRVVTLWYRPPELLLGERDYGPIDLWGAGCIMAEMWTRSPIMQGNTEQHQLAL  
ISQLCGSITPEVWPVNDNYELYEKLELVKGQKRKVKDRLKAYVRDPYALDLIDKLLVLDP  
AQRIDSDDALNHDFWSDPMPSDLKGMLSTHLTSMFEYLAPPRRKGSIITQQSTNQSRNP  
ATTNQTEFERVF

>sp|P55273|CDN2D\_HUMAN Cyclin-dependent kinase 4 inhibitor D OS=Homo sapiens GN=CDKN2D  
PE=1 SV=1

MLLEEVRA GDRLSGAAARGDVQEVRRLLHRELVHPDALNRFGKTALQVMMFGSTAIALEL  
LKQGASPNVQDTSGTSPVHDAARTGFLDTLKVLEHGADVNPDPGTGALPIHLAVQEGHT  
AVVSFLAAESDLHRRDARGLTPLELALQRGAQDLVDILQGHMVAPL

>sp|Q9Y6F8|CDY1\_HUMAN Testis-specific chromodomain protein Y 1 OS=Homo sapiens GN=CDY1  
PE=1 SV=1

MASQEFEEVAIVDKRQDKNGNTQYLVRWKGYDKQDDTWEPEQHLMNCEKCVHDFNRRQTE  
KQKKLTWTTTSRIFSNNARRRTSRSTKANYSKNSPKTPVTDKHHRSKNRKLFAASKNVR  
KAASILSDTKNMEIINSTIETLAPDSPFDHKT VSGFQKLEKLDPIAADQQD TVVFKVTEG  
KLLRDPLSRPGA EQTG IQNKTQIHPLMSQMSGSVTASMATGSATRKGI VVLIDPLAANGT  
TDMHTSVPRVKGQQRNITDDSRDQPF IKKMHTIRLTESASTYRDIVVKKEDGFTQIVLS  
TRSTEKNALNTEVIKEIVNALNSAAADDSKLVLFSAAGSVFCCGLDFGYFVKHLRNNRNT  
ASLEMVDTIKNFVNTFIQFKKPIVVS VNGPAIGLGASILPLCDLVWANEKAWFQTPYTTF

GQSPDGCSSITFPKMMGKASANEMLIAGRKLTAREACAKGLVSQVFLTGFTQEVMIIQIK  
ELASYNPIVLEECKALVRCNIKLELEQANERECEVLRKIWSSAQGIESMLKYVENKIDEF

>sp|Q49AR2|CE022\_HUMAN UPF0489 protein C5orf22 OS=Homo sapiens GN=C5orf22 PE=1 SV=2

MSDSAGGRAGLRRYPKLPVWVVEDHQEVLPFIYRAIGSKHLPASNVSLHFDSHPDLLIP  
VNMPADTVFDKETLFGELSIENWIMPAVYAGHFSHVIWFHPTWAQQIREGRHHFLVGKDT  
STTTIRVTSTDHYFLSDGLYVPEDQLENQKPLQLDVIMVKPYKLCNNQEENDAVSSAKKP  
KLALEDSENTASTNCDSSSEGLEKDTATQRSDQTCLEPSCSCSSENQECQTAASTGEILE  
ILKKGKAFVLDIDLDFSVKNPFKEMFTQEEYKILQELYQFKKPGTNLTEEDLVDIVDTR  
IHQLEDLEATFADLCDGDDEETVQRWASNPGMESLVPLVQSLKKRMEVPDYEMVHQAQGLT  
CDYSELPHHISTEQEIECLIQSVHYLLKNLPNPTLVTIARSSLDDYCPSDQVDTIQEKVL  
NMLRALYGNLQLQVYAAESPPS

>sp|Q8N8E3|CE112\_HUMAN Centrosomal protein of 112 kDa OS=Homo sapiens GN=CEP112 PE=1 SV=2

MEVGSEEEKWEKLDAEFDHFVDMKPFVLKLPHRTERQRCALWIRKLCEPSGTGAGIMGR  
KNRNLYAKLLHMLKRGALGPFTHRPEPGTLKILPSYMSIYFDEPNPARAKGSSPEGLP  
AWVLGELETSEHKLNESWKLSSGEDNTLVQSPTDVYSREQYTGKLRVRSHSLSPTHREDG  
QNITPKICEVYSKKSPVSLDDSDIEARLNSWNLGIENPRYLQKPIPVSLMTPKFSLRKS  
SSFHDDHFLSRIREKELDMKTKMMEAKFHEEKLKLQKQKHDADVQKILERKNNIEELKTL  
YRSKQHETEETIRKLEKKVQTLIRDCQVIRETKEDQIAELKKICEQSTESLNDWEKKLH  
NAVAEMEQEKFDLQKQHTENIQELLEDTNVRLNKMESEYMAQTQSTNHMIKELEARVQQL  
TGEAENSNLQRQKLIQEKAELERCYQITCSELQEVKARRNTLHKEKDHLVNDYEQNMKLL  
QTKYDADINLLKQEHALSASKASSMIEELEQNVQQLKQQLQESELQRKQQLRDQENKFQM  
EKSHLKHIYEKKAHDLQSELDKGKEDTQKKIHKFEEALKEKEEQLTRVTEVQRLQAQQAD  
AALEEFKRQVELNSEKVYAEMKEQMEKVEADLTRSKSLREKQSKEFLWQLEDIRQRYEQQ  
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QVIADMEAQVHKLREELINVNSQRKQQLVELGLLREEEKQRATREHEIVVNKLKAESEKM  
KIELKKTHAAETEMTLEKANSKLQIEKEYTQKLAKSSQIIAELQTTISSLKEENSQQQL  
AAERRLQDVRQKFEDEKKQLIRDNDQAIVLQDELENRSNQVRCAEKKLQHKELESQEQI  
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>sp|Q03701|CEBPZ\_HUMAN CCAAT/enhancer-binding protein zeta OS=Homo sapiens GN=CEBPZ PE=1  
SV=3

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GKWYDLEYSNEYS LKPQPDVVS KYKTLAQKLYQHEINLFKSKTNSQKGASSTWMKAIVS  
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SGEVERLLFRSNISSKAQYYAICFLNQMALSH EESELANKLITVYFCFFRTC VKKKDVES  
KMLSALLTGVNRAYPYSQTGDDKVREQIDTLFKVLHIVNFNTSVQALMLLFQVMNSQQT I  
SDRYYTALYRKMLDPGLMTC SKQAMFLNLVYKSLKADIVLRRVKAFVKRLLQVTCQQMPP  
FICGALYLVSEILKAKPGLRSQLDDHPESDDEENFIDANDEDMEKFTDADKETEIVKKL  
ETEETVPETDVETKKPEVASWVHFDNLKGGKQLNKYDPFSRNPLFCGAENTSLWELKKLS  
VHFHPSVALFAKTI LQGNIIQYSGDPLQDFTLMRFLDRFVYRNPKPHKGKENTDSVVMQP  
KRKHF IKDIRHLPVNSKEFLAKEESQIPVDEVFFHRYYKKVAVKEKQKRDADEESIEDVD

DEEFEELIDTFEDDNCFSGKDDMDFAGNVKKRTKGAKDNTLDEDESGSDELGNLDDDE  
VSLGSMDEEFAEVEDGDTFMDVLDDSESVPELEVHVKVSTKSKRKGTDGDFAGSF  
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>sp|Q9BXF3|CECR2\_HUMAN Cat eye syndrome critical region protein 2 OS=Homo sapiens GN=CECR2  
PE=1 SV=2

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CDYRLDADDVFDLLKGLDADSLRVEPLGEDNSGALYWFYGYTRMYKEDPVQGSNGELSL  
SRESEGQKNVSSIPGKTGKRRGRPPKRKKLQEEILLSEKQEENSLASEPQTRHGSQGPGQ  
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LHPRWMSDHLISIKPVQKEETPVLTRIEKQKRKEEEEERQILLAVQKKEQEQMLKEERKRE  
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NSPMREEKKTKDLFELDDFTAMYKVLVDVKAHKDSWPFLEPVDESYAPNYYQIIKAPMD  
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RRAPSSGDDQSSSSTQPPREVGTSNRGFSHPLHCGGTPSQAPFLNQMRPAVPGTFGPLR  
GSDPATLYGSSGVPPEHPGEPVQQRQPFMTQPPVGINSLRGPRLGTPEEKQMCGLTHLS  
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RSYKYLNRVHSAVWNGNHGATNQGPLGDEKPHLGPGPSHQPRTLGHVMDSRVMRPPVPP  
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GMRYSYHPPPPQSYHHYQRTPYACQSFSDWQRPLHPQGSPPGPPASQPPPPRSLFSDK  
NAMASLQGCETLNAALTSPTRMDAVAAKVPNDGQNPGEPEEKLDSEMERPEPKEFLDLD  
NHNAATKRQSSLSASEYLYGTPPPLSSGMFGSSAFPPHSVMLQTGPPYTPQRPASHFQP  
RAYSSPVAALPPHHPGATQPNGLSQEGPIYRCQEEGLGHFQAVMMEQIGTRSGIRGPFQE  
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>sp|Q96J87|CEL6\_HUMAN CUGBP Elav-like family member 6 OS=Homo sapiens GN=CEL6 PE=1 SV=1

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QVKPAASEGRGEDRKLFGVGLGKQGEEDVRRLFQPFQGHIECTVLRSPDGTSGKCAFVK  
FGSQGEAQAAIRGLHGSRTMAGASSSLVVKLADTDRELRALRRMQMAGHLGAFHPAPLPL  
GACGAYTTAILQHQAALLAAQGPGLGPVAAVAAQMQHVAASLVAAPLLPAAAANSPPG  
SGPGTLPLGPAPIGVNGFGPLTPQTNGQPGSDTLYNGLSPYPAQSPGVADPLQQAYAGM  
HHYAAAYPSAYAPVSTAFPPQPSALPQQQREGPEGCNLFYHLPQEFGDAELIQTFLPFG  
AVVSAKVFVDRATNQSKCFGVSFNPTSAQTAIQAMNGFQIGMKRLKVQLKRPKDANRP  
Y

>sp|Q9NYQ7|CELR3\_HUMAN Cadherin EGF LAG seven-pass G-type receptor 3 OS=Homo sapiens  
GN=CELSR3 PE=1 SV=2

MMARRPPWRGLGGRSTPILLLLLLSLFPLSQEELGGGGHQQWDPGLAATTGPRAHIGGGA

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GPKPVSSQRNAGTGSRKRVGTARCCGELWATGSKGQGERATTSGAERTAPRRNCLPGASG  
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VYSLAALMNSRSELEFSIDPQSGLIRTAALDRESMERHYLRVTAQDHGSPRLSATTMVA  
VTVADRNDHSPVFEQAQYRETLRENVEEGYPILQLRATDGDAPPNANLRYRFVGPAAARA  
AAAAAFEIDPRSGLISTSGRVDREHMESYELVVEASDQGQEPGPRSATVRVHITVLDEND  
NAPQFSEKRYVAQVREDVRPHTVVLRVTTATDRDKDANGLVHYNIISGNSRGHFAIDSLTG  
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HYFFGVEARDHGSPLSASASVTVTVDVNDNRPEFTMKEYHLRLNEDAAVGTSVSVSTA  
VDRDANSAISYQITGGNTRNRFAISTQGGVGLVTLALPLDYKQERYFKLVLTASDRALHD  
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TVRRLDREAVSVYELTAYAVDRGVPLRTPVSIQVMVQDVNDNAPVFPAEEFEVRVKENS  
IVGSVVAQITAVDPDEGNNAHIMYQIVEGNIPELFQMDIFSGELTALIDLDEARQEYVI  
VVQATSAPLVSRATVHVRLVDQNDNSPVLNNFQILFNMYVSNRSDTFPSGIIGRIPAYDP  
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GPSKDKVAVLSVDDCDVAVALQFGAIEGNYSCAAAGVQTSSKSLDLTGPLLGGVPLP  
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WGSFSCDCPVGFGGKDCQLTMAHPHHFRGNGTLSWNFGSDMAVSVPWYGLAFRTRATQ  
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GRRGHVLMVSLDFSLFQDTMAVGSELQGLVKQLHVGGGLPPGSAEEAPQGLVGC IQGV  
LGSTPSGSPALLPPSHRVNAEPGCVVTNACASGCPPHADCRDLWQTFSCCQPGYYGPG  
CVDACLLNPCQNQGSCRHLPGAPHGYTCDCVGGYFGHHCEHRMDQQCPRGWWGSPTCG  
PCNCDVHKGFDPNCKNTNGQCHCKEFHYRPRGSDSCLPCDCYPVGSTSRSCAPHSGQC  
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FGVLMDASPRERLEGDELLAVFTHVVAVSVAALVLTAAILLSLRSLSNVRGIHANVAA  
ALGVAELLFLLGIHRTNQLVCTAVAILLHYFFLSTFAWLFVQGLHLYRMQVEPRNVDRG  
AMRFYHALGWGVPVLLGLAVGLDPEGYGNDPFCWISVHEPLIWSFAGPVVLVIVMNGTM

FLLAARTSCSTGQREAKKTSALTLRSSFLLLLLVASWLFGLLAVNHSILAFHYLHAGLC  
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ITLGASTVSSVSARSGRQTQDQDSQRGRSYLRDNLVLRHGSAADHTDHSQAHAAGPTDLD  
VAMFHRDAGADSDSDSLSEERSLSIPSESEDNGRTRGRFQRPLCRAAQSERLLTHP  
KDVDGNDLLSYWPALGECEAAPCALQTWGSERRLGLDTSKDAANNQPDALTSGDETS  
GRAQRQRKGILKNRLQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYAGGGTGSLS  
QPASRYSSREQLDLLRRQLSRERLEEAPAPVLRPLSRPGSQECMDAAPGRLEPKDRGST  
LPRRQPPRDYPGAMAGRFGSRDALDLGAPREWSTLPPPRRTRDLPQPPPLPLSPQRQL  
SRDPLPSRPLDSLRSNSREQLDQVPSRHSREALGPLQLLRAREDSVSGPSHGPST  
EQLDILSSILASFNSALSSVQSSSTPLGPHTTATPSATASVLGPSTPRSATSHSISELS  
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>sp|Q9BS16|CENPK\_HUMAN Centromere protein K OS=Homo sapiens GN=CENPK PE=1 SV=1  
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IMQVKCLTAELSQQKKTPIETPLTEDVLITLGKEEFQKLQDLEMVLTKEKNEKLKE  
DLEREQRWLDEQQQIMESLNLHSELKNKVETFSERIFNELKTKMLNIKEYKEKLLSTL  
GEFLEDHFPLPDRSVKKKKNIQESSVNLITLHEMLEILNRLFDPHPYVKISDSFWP  
PYVELLLRNGIALRHPEDPTRIRLEAFHQ

>sp|Q9BU64|CENPO\_HUMAN Centromere protein 0 OS=Homo sapiens GN=CENPO PE=1 SV=1  
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ELRAVVRHRRASVKACIANVEPNQTVINEQEAEKLENVKAILQAYHFTGLSGKLT  
GVCVCISTAFEGNLLDSYFVDLVIQKPLRIHHHSVPVFIPLEEIAAKYLQTNIQHFLFSL  
CEYLNAYSGRKYQADRLQSDFAALLTGPLQRNPLCNLLSFTYKLDPGGQSFPFCARLLYK  
DLTATLPTDVTVTQCQGEVLSTSWEEQRASHETLFTCKPLHQVFASFTRKGEKLDMSLVS

>sp|Q8N2Z9|CENPS\_HUMAN Centromere protein S OS=Homo sapiens GN=APITD1 PE=1 SV=1  
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FAKDLEMFARHAKRTTINTEDVKLLARRSNSLLKYITDKSEEIAQINLERKAQKKKKSSED  
GSKNSRQPAEAGVVESEN

>sp|Q71F23|CENPU\_HUMAN Centromere protein U OS=Homo sapiens GN=CENPU PE=1 SV=1  
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NEKDEETYETFDPLHSTAIYADEEEFSKHCGLSLSSTPPGKEAKRSSDTSGNEASEIES  
VKISAKKPGRKLRPISDDSESIEESDTRRKVKSAEKISTQRHEVIRTASSESEKPAES  
VTSKKTGPLSAQSVEKENLAIESQSKTQKKGKISHDKRKKRSKAIGSDTSDIVHIWCP  
EGMKTSDIKELNIVLPEFEKTHLEHQQRIESKVCKAAIATFYVNVKEQFIKMLKESQMLT  
NLKRKNAMISDIEKKRQRMIEVQDELLRLEPQLKQLQTKYDELKERKSSLRNAAYFLSN  
LKQLYQDYSDVQAQEPNVKETYDSSSLPALLFKARTLLGAESHLRNINHLEKLLDQG

>sp|Q9H6K1|CF106\_HUMAN Uncharacterized protein C6orf106 OS=Homo sapiens GN=C6orf106 PE=1  
SV=2

MEGMDVDLDPELMQKFSCLTGTTDKDVLISEFQRLLGFLNPAGCAFFLDMTNWNLQAAIG  
AAYDFESPNI SVPSMSFVEDVTIGEGESIPPDTQFVKTWRIQNSGAEAWPPGVCLKYVGG  
DQFGHVNMMVRSLEPQEIADSVQMCSPSRAGMYQGQWRMCTATGLYYGDVIWVILSVE  
VGGLLGVTTQLSSFETEFNTQPHRKVEGNFNPFAFPQKNRQSDENNLKDPGGSEFDSISK  
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>sp|A8K010|CF176\_HUMAN Putative transcriptional regulator encoded by LINC00473 OS=Homo  
sapiens GN=LINC00473 PE=5 SV=2



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CSAWLLASSCPRLYAPLISFHCMCFNTVLLFPRLFGPTLSAKIQFNTDLSLRAIAWKCTK  
DTTTYC

>sp|Q96MR6|CFA57\_HUMAN Cilia- and flagella-associated protein 57 OS=Homo sapiens  
GN=CFAP57 PE=2 SV=3

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LALISPNRRYLAISETVQEKPATIIYELSSIPCRKRKVLNDFQVQKFISMAFSPDSK  
YLLAQTSPPESNLVYWLWEKQKVMAIVRIDTQNNPVYQVSFSPQDNTQVCVTGNGMFKLL  
RFAEGTLKQTSFQRGEPQNYLAHTWVADDKIVVGTDGTGKLFLESGDQRWETSIMVKEPT  
NGSKSLDV IQESESLEFPVSSPLPSYEQMVAASSHSQSMSPQVFAIAAYSKGFACSAG  
PGRVLLFEKMEEKDFYRESREIRIPVDPQSNDSQSDKQDVLCLCFSPSEETLVA STSKN  
QLYSITMSLTEISKGEPAHFEYLMYPLHSAPITGLATCIRKPLIATCSLDRSIRLWNYET  
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NGGHLFAAVNGNVIHVYTTTSLENISSLGHTGKIRSVWNADDSKLISGGTDGAVYEWN  
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CLFTWKVFDKDGRIKREREVGFAEEVLVTKTDMEEKAQVMLELKTVEELKMENEYQLR  
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IKEINELRRELKFTRSQVYDLEAALKLTKKVRPQEVSETEPSRDMLSTAPTARLNEQEET  
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>sp|Q8NHU2|CFA61\_HUMAN Cilia- and flagella-associated protein 61 OS=Homo sapiens  
GN=CFAP61 PE=2 SV=3

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HCFNDKDYALMSLCSWVNVVGRMTGIDRAAKHVVLSTDEIVPYDHLILCTGQQYQVPCP  
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AILAQWNDGLHPDPIYSASFTTPTKPFRLQCSMFFSFCEKNVDYETFKALNDACLVDYSR  
LVIDTNFHTNDIAIRAAGSLTKFSNRYYSNEWTHSNFSSKEIGFQLAAAMLHLFDPTLEP  
VTEPPANLDRILIPMYKGAQIQQGILPGSYHYLHIAKPAIPTPLEVQMAQPNYGLELVTGS  
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>sp|Q9C0B2|CFA74\_HUMAN Cilia- and flagella-associated protein 74 OS=Homo sapiens  
GN=CFAP74 PE=2 SV=3

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MHLDSLSTRGRGQQLPQLSSPSQRTEVVGTQNLNGQSVFSVAPVKGVMDPGKTQDFT  
VTFSPDHESLYFSDKLQVVLFEKKISHQILLKGAACQHMMFVEGGDPLDVPVESLTAIPV  
FDRHREEAEELRPILVTLDYIQFDTDTPAPPATRELQVGCIRTTPSPKPKPDHPLMVSA  
LLQLRGDVKETYKVFVAQVLTGP

>sp|Q9P2B7|CFA97\_HUMAN Cilia- and flagella-associated protein 97 OS=Homo sapiens  
GN=CFAP97 PE=1 SV=2

MDQFGDILEGEVDHSDFFDSDFEKGKCEETNSVFDKQNDPKERIDKDTKNVNSNTGMQTT  
ENYLTEKGNERNVFPPEHPVENDVTQTSSFSLPASSRSKKLCDVTTGLKIHVSIPNRI  
PKIVKEGEDDYITDGESSDDGKKYHVKSASAKPSTNVKKSIRKKYCKVSSSSSSSLSS  
SSSGTDCLDAGSDSHLSDSSPSSKSSKKHVSIGITLLSPKHKYKSGIKSTETQPSSTPK  
CGHYPEESEDVTVDVSPLSTPDISPLQSFELGIANDQVKIKKQENVSQEIYEDVEDLKN  
NSKYLKAAKKGKEKHEPDVSSKSSSVLDSSLDHRHKQKVLHDTMDLNHLLKAFQLDKKG  
PQKHFDQPSVAPGKNYSFTREEVRQIDRENQRLKELSRQAEKPGSKSTIPRSADHPPK

LYHSALNRQKEQQRIERENLALLKRLEAVKPTVGMKRSEQLMDYHRNMGYLNSSPLSRRA  
RSTLGQYSPLRASRTSSATSGLSRSERSAVDPSSGHPRRRPKPPNVRTAWL

>sp|Q8NEG2|CG057\_HUMAN Uncharacterized protein C7orf57 OS=Homo sapiens GN=C7orf57 PE=2  
SV=3

MRNTSKELQGATHRYAPCDWYYHVPVKRSEKAVDAPPASQIPGLSNLGDHSENLPGTRR  
YWKETDSEYVKLAKQGGRPDLLKHFAPGTRKGSPVAYSLPDWYIHHSKPPTASQQEVRA  
VSMPDYMVHEEFNPDQANGSYASRRGPFDFDMKTVWQREAELEKEKKLRLPAIDSKYL  
SKAGTPLGPKNPAGSRLSFPVPQGKNSSPTNFSKLISNGYKDEWLQQQQRADSDKRTPK  
TSRASVLSQSPRDLEGPQDAARLQDAEASEGPEDTPESSQSPEESVSASTPAELK

>sp|A4D263|CG072\_HUMAN Uncharacterized protein C7orf72 OS=Homo sapiens GN=C7orf72 PE=4  
SV=2

MDVEIQDTPGKISISKRSILSGTVENIDYPHYCDLLRKMMPFVKLENRHNYGRFEKKC  
NPAFLKFHPYPPSVLPDYHLHDPYPPPYGPHYPLFPLRDDVTLGDS CSGFMSPGGDADLN  
PGIGRTIPTLVDFSDVKPQHRVPRPDTGFQTTIKRQKILSEELQNNRRWNSREVPDISIR  
ARLGGWTSPLKVTPQLPHHEGRSLSHIFTFDEEATCTDEGEPLVQTNKKCNKDSFYKSS  
TQKAYEDVPWDKMLPPKLVPEETTLEKTADPISQCFTLKRYKGVPAITQMVGELWDRFQT  
RSFLAPVKPINFVSSSSRSKYIPLYTGHVQSTNADDVDNPLGDIASLAKQRYSKPLYTNT  
SRAANIPGYTGKVHFTATHPANSNIPSTTSPDSELHRVFQKEMAVDLFRHQAPLSRLVT  
TVRPYNPFNKKDKETIDY

>sp|A4D0Y5|CG077\_HUMAN Uncharacterized protein C7orf77 OS=Homo sapiens GN=C7orf77 PE=4  
SV=1

MGAERVCTKAPEITQDEAEIYSLTNMEGNIGIKGCEFKSWLFKFYQARSQVLLCGEVKNP  
YLLTSNKTTVKEQNACLTHPDRSAMAGLLL

>sp|Q8N884|CGAS\_HUMAN Cyclic GMP-AMP synthase OS=Homo sapiens GN=MB21D1 PE=1 SV=2

MQPWHGKAMQRAEAGATAPKASARNARGAPMDPTESPAAPEAALPKAGKFGPARKSGSR  
QKKSAPDTQERPPVRATGARAKKAPQRAQDTQPSDATSAPGAEGLEPPAAREPALSRAGS  
CRQRGARCSTKPRPPPGPWDVPSGPLVVSAPILVRRDAAPGASKLRVLEKLLSRDDIS  
TAAGMVKGVVDHLLRLKCDSAFRGVGLLNTGSYYEHVKISAPNEFDVMFKLEVPRIQLE  
EYSNTRAYYFVKFRNPKENPLSQFLEGEILSASKMLSFRKIIKEEINDIKDTDVIMKR  
KRGGSPAVTLLISEKISVDITLAEKSSWPASTQEGLRIQNWLSAKVRKQLRLKPFYLV  
PKHAKEGNQFQEEWRLSFSHIEKEILNNHGKSKTCCENKEECCRKDCLKLMKYLLLEQL  
KERFKDKKHLDFSSYHVKTAFHVCTQNPQDSQWDRKDLGLCFDNCVTYFLQCLRTEKL  
ENYFIPEFNLFSSNLIDKRSKEFLTKQIEYERNNEFPVFDEF

>sp|Q8TDX6|CGAT1\_HUMAN Chondroitin sulfate N-acetylgalactosaminyltransferase 1 OS=Homo  
sapiens GN=CSGALNACT1 PE=1 SV=2

MMVRRGLLAWISRVVLLVLLCAISVLYMLACTPKGDEEQLALPRANSPTGKEGYQAV  
LQEWEEQHRNYVSSLKRQIAQLKEELQERSEQLRNGQYQASDAAGLGDRSPPEKTQADL  
LAFHSQVDKAEVNAGVKLATEYAAVPFDSFTLQKVYQLETGLTRHPEEKPVKDKRDEL  
VEAIESALETLNSPAENSPNHRPYTASDFIEGIYRTERDKGTLYELTFKGDHKEFKRLI  
LFRPFGPIMKVKNEKLNMAANTLINVIVPLAKRVDKFRQFMQNFREMCIEQDGRVHLTVVY  
FGKEEINEVKGILENTSKAANFRNFTFIQLNGEFSRGKGLDVGARFWKGSNVLLFFCDVD  
IYFTSEFLNTCRLNTQPGKKVFYPVLFSSQYNPGIIYGHHDVPPLEQQLVIKKETGFWRD  
FGFGMTCQYRSDFINIGGFDLDIKGWGGEDVHLYRKYLSNLIVVRTPVRLFHLWHEKR  
CMDELTPQYKMCMSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSKKT

>sp|Q99674|CGRE1\_HUMAN Cell growth regulator with EF hand domain protein 1 OS=Homo sapiens  
GN=CGREF1 PE=2 SV=2

MLPLTMTVLILLLLPTGQAAPKDGVTRPDSEVQHQLLPNPFQPGQEQLGLLQSYLKGLGR  
TEVQLEHLSREQVLLYLFALHDYDQSGQLDGLELLSMLTAALAPGAANSPTTNPVILIVD  
KVLETQDLNGDGLMTPAELINFPGVALRHVEPGEPLAPSPQEPQAVGRQSLLAKSPLRQE  
TQEAPGPREEAKGQVEARRESLDPVQEPGGQAEADGDVPGPRGEAEGQAEAKGDAPGPRG  
EAGGQAEAEADGAPGPRGEAGGQAEARENGEEAKELPGETLESKNTQNDFEVHIVQVENDE  
I

>sp|Q99675|CGRF1\_HUMAN Cell growth regulator with RING finger domain protein 1 OS=Homo sapiens  
GN=CGRRF1 PE=1 SV=1

MAAVFLVTLYEYSPLFYIAVVFTCFIVTTGLVLGWFGWDVPVILRNSEETQFSTRVFKKQ  
MRQVKNPFGLEITNPSSASITGTITLTTDCLEDSLLTCYWGCSVQKLYEALQKHVYCFRI  
STPQALEDALYSEYLYQEYFIKKDSKEEICYQLPRDTKIEDFGTVPRSRYPVLVALLTLA  
DEDDREIYDIISMVSIHIPDRTYKLSRILYQYLLLAQGQFHDCLKLFMSANNFTPSN  
NSSSEEKNTDRSLEKVLSESEVEPSEENSKDCVVCQNGTVNWVLLPCRHTCLCDGCVK  
YFQQCPMCRQFVQESFALCSQKEQDKDKPKTL

>sp|Q9H7E9|CH033\_HUMAN UPF0488 protein C8orf33 OS=Homo sapiens GN=C8orf33 PE=1 SV=1

MAALGHLAGEAAAAPGPGTPCASRGARLPGPVSSARNPSTVCLCPEQPTCSNADSRHPL  
GDEGGTASKKQKNKKKTRNRASVANGGEKASEKLAPEEVPLSAEAQAQQLAQELAWCVEQ  
LELGLKRQKPTPKQEQAIGAIRTLSKRTPLPKRQMLHSLFGDYRAQMEAEWREALRA  
LRAAAYSQVQVPDQATRKKSQRVCRPSIWRKATLDMPDEEFRNFF

>sp|Q8TAG6|CH046\_HUMAN Uncharacterized protein C8orf46 OS=Homo sapiens GN=C8orf46 PE=2  
SV=2

MMHQIYSCSDENIEVFTTVIPSKVSSPARRRAKSSQHLLTKNVVIESDLYTHQPLELLPH  
RGDRRDPGDRRRFGRLQTARPTAHPAKASARPVGISEPKTSNLCGNRAYGKSLIPPVPR  
ISVKTSASASLEATAMGTEKGAVLMRGSRLKMKMTEEYPALPQGAEASLPLTGSASCGVP  
GILRKMWTRHKKKSEYVGATNSAFEAD

>sp|Q8NAV2|CH058\_HUMAN Uncharacterized protein C8orf58 OS=Homo sapiens GN=C8orf58 PE=2  
SV=2

MMGRRRAFAVDGRDGAGEGLARGCIVPGVTSTYRRIPDAAHGCSSWERGDKFRGVGREAL  
FLKLASRDSGVEMAVGDSPLAALPGLSQDSLDFESSGSSEPPAQVGRLLASQKLGEVLER  
SRRLPTAPTSLSGQHRSRLASKPEREVPLGAGQQESMEADTDLEAGLEEEAVGGLGPGA  
WACLPGQGLRYLEHLCLVLEQMARLQQLYLQLRIQRPPGDPGEEESTRAPLPSPLHTPGN  
RGQGPWELLSQTEHTGAKAASPPKVEVPSANPPRLPETPVEPTYHLPSSQGHKRDISHWD  
KVKVLLNRICRRSHHPEPPAPPDGSDPRIESRDLPERPQCRPHRKTFMPSLVVKKQRAK  
NLSVG

>sp|Q8NOT1|CH059\_HUMAN Uncharacterized protein C8orf59 OS=Homo sapiens GN=C8orf59 PE=1  
SV=4

MAKNKLRGPKSRNVFHIA SQNFKAKNKAKPVTTNLKKINIMNEEKVNRVNKAFVNVQKE  
LAHFAKSISLEPLQKELIPQQRHESKPVNVDEATRLMALL

>sp|PODMB2|CH088\_HUMAN Uncharacterized protein C8orf88 OS=Homo sapiens GN=C8orf88 PE=4  
SV=1

METKKLIGKPLQPARPVRLHTSPPGAVFPFNQNEYPCNTQCIQSGVSRCKTNGMQAFSQ  
GLNEQQQQQSPVKKERIKYSRDFLLKLSSVSICRKKPDFLPDHPIVLQKPENNQSFK

>sp|P61604|CH10\_HUMAN 10 kDa heat shock protein, mitochondrial OS=Homo sapiens GN=HSPE1  
PE=1 SV=2

MAGQAFRKFLPLFDRVLVERSAAEVTVTKGGIMLPEKSQGGKVLQATVVAVGSGSKGKGGEI  
QPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD

>sp|Q96KX2|CAZA3\_HUMAN F-actin-capping protein subunit alpha-3 OS=Homo sapiens GN=CAPZA3  
PE=1 SV=2

MTLSVLSRKDKERVIRRLQLAPPGEFVNAFDDLCLLIRDEKLMHHQGECAGHQHCQKYS  
VPLCIDGNPVLLSHHVMGDYRFFDHQSKLSFKYDLLQNQLKDIQSHGIIQNEAEYLRVV  
LLCALKLYVNDHYPKGNCNMLRKTVKSKEYLIACIEDHNYETGECWNLWKSXWIFQVNP  
FLTQVTGRIFVQAHHFRCVNLHIEISKDLKESLEIVNQAQLALSFAFLVEEQENKFQAAV  
LEELQELSNEALKRILRRDLPTVTRTLIDWHRILSDLNLMYPKLGVIYSRSLCNWII

>sp|Q6P9G0|CB5D1\_HUMAN Cytochrome b5 domain-containing protein 1 OS=Homo sapiens  
GN=CYB5D1 PE=2 SV=1

MPRRGLVAGPDLEYFQRRYFTPAEVAQHNRPEDLWVSYLGRVYDLTSLAQEYKGNLLKP  
IVEVAGQDISHWFDPKTRDIRKHIDPLTGCLRYCTPRGRFVHVPPQLPCSDWANDFGKPW  
WQGSYYEVGRLSAKTRSIRIINTLTSQEHTLEVGVLESIWEILHRYLPYNASHAASYTWKY  
EGKNLNMDFTEENGIRDEEEFDYLSMDGTLHTPAILLFYNDLTEL

>sp|Q9UI42|CBPA4\_HUMAN Carboxypeptidase A4 OS=Homo sapiens GN=CPA4 PE=1 SV=2

MRWILFIGALIGSSICGQEKFFGDQVLRINVRNGDEISKLSQLVNSNNLKNFWKSPSSF  
NRPVDVLVPSVSLQAFKSFLRSQGLEAYVTIEDLQALLDNEDDEMHNQEGQERSNNFN  
GAYHSLEAIYHEMDNIAADFPDLARRVKIGHSFENRPMYVLKFSSTGKGVRRPAVWLNAGI  
HSREWISQATAIWTARKIVSDYQRDPAITSILEKMDIFLLPVANPDGYVYTQTQNRLWRK  
TRSRNPGSSCIGADPNRNWNASFAGKGASDNPCEVYHGPANSEVEKSVVDFIQKHGN  
FKGFIDLHSYSQLLMYPYGYSVKKAPDAEELDKVARLAALKALASVSGTEYQVGPTCTTVY  
PASGSSIDWAYDNGIKFAFTFELRDTGTYGFLPANQIIPTAEETWGLKTIMEHVRDNL  
Y

>sp|P16152|CBR1\_HUMAN Carbonyl reductase [NADPH] 1 OS=Homo sapiens GN=CBR1 PE=1 SV=3

MSSGIHVALVTGGNGKIGLAIVRDLCLRLFSGDVLTARDVTRGQAAVQQLQAEGLSPRFH  
QLDIDDLQSIRALRDFLRKEYGGDLVNNAGIAFKVADPTPFHQAQVETMKTNFFGTRD  
VCTELLPLIKPQGRVVNVSSIMSVRALKSCSPELQKFRSETITEEELVGLMNKFVEDTK  
KGVHQKEGWSSAYGVTKIGVTLSRIHARKLSEQRKGDKILLNACCPGWVRTDMAGPKA  
TKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

>sp|Q5JTY5|CBWD3\_HUMAN COBW domain-containing protein 3 OS=Homo sapiens GN=CBWD3 PE=2  
SV=1

MLPAVGSVDEEDPAEEDCPVLPIETTQSEEEKSGLGAKIPVTIITGYLGAGKTLLN  
YILTEQHSKRVAVILNESGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNLRAI  
ENLMQKKGKFDDILLETTGLADPGAVASMFVDAELGSDIYLDGIITIVDSKYGLKHLTE  
EKPDLGLINEATRQVALADIILINKTDLVPEEDVKKLRTTIRSINGLGQILETQRSRVDLS  
NVLDLHAFDSLGSISLQKKLQHPVGTQPHLDQSIIVTITFEVPGNAKEEHLNMFIQNLLWE  
KNVRNKNHNCMEVIRLKLVSISKDSQQVIVQGVHELYDLEETPVSWKDDTERTNRLVLI  
GRNLDKDILKQLFIATVTETEKQWTHFKEDQVCT

>sp|O00257|CBX4\_HUMAN E3 SUMO-protein ligase CBX4 OS=Homo sapiens GN=CBX4 PE=1 SV=3

MELPAVGEHVFAVESIEKKRIRKGRVEYLVKWRGWSPKYNTWEPEENILDPRLLIQFQNR  
ERQEQLMGYRKRGPVKPLVVQVPTFARRSNVLTGLQDSSTDNRAKLDLGAQGGKGQGHQY

ELNSKKHHQYQPHSKERAGKPPPGKSGKYYYQLNSKKHHYPQDPKMYDLQYQGGHKEA  
PSPTCPDLGAKSHPPDKWAQGAGAGKYLGAVKPLAGAAGAPGKGSEKPPNGMMPAPKEA  
VTGNGIGGKMKIVKNKNKNGRIVIVMSKYMENGMQAVKIKSGEVAEGEARSPSHKKRAAD  
ERHPPADRTFKKAAGAEKKVEAPPKRREEEVSGVSDPQPQDAGSRKLSPTKEAFGEQPL  
QLTTKPDLLAWDPARNTHPPSHHPHPHHHHHHHHHHHHAVGLNLSHVRKRCLSETHGE  
REPCKKRLTARSISTPTCLGGSPAERPADLPAAALPQPEVILLDSLDLDEPIDLRCVKT  
RSEAGEPPSSLQVKPETPASA AVAAAAAPTTTAEKPPEAQDEPAESLSEFKPFFGNI  
IITDVTANCLTVTFKEYVTV

>sp|O95503|CBX6\_HUMAN Chromobox protein homolog 6 OS=Homo sapiens GN=CBX6 PE=1 SV=1

MELSAVGERVFAAESIIKRRIRKGRIEYLVKWKGAIKYSTWEPEENILDSRLIAAFEQK  
ERERELYGPKKRGPKPTFLKARAQAEALRISDVHFSVKPSASASSPKLHSSAAVHRLK  
KDIRRCHRMSRRPLRPDPQGSGPLRPPISPFSETVRIINRKVKPREPKRNRIILNLKV  
IDKGAGGGGAGQGAGALARPKVPSRNRVIGKSKKFSESVLRTQIRHMKFGAFALYKPPPA  
PLVAPSPGKAEASAPGPGLLLAAPYPYDARSSGSGCPSPTQSSDPDDTPPKLLPETV  
SPSAPSWREPEVLDLSLPESAATSKRAPPEVTAAAGPAPPTAPEPAGASSEPEAGDWRP  
EMSPCSNVVVTDVTSNLLTVTIKEFCNPEDFEKVAAGVAGAAGGGGSIGASK

>sp|A1A4F0|CC055\_HUMAN Putative uncharacterized protein PQLC2L OS=Homo sapiens GN=PQLC2L  
PE=2 SV=2

MKVVGNYRVNTANSSTDTSGEHLTCLRSQLFVAYRNGRVDEAVSLGFLDCWIGGDLTNFK  
GCYLTNQLPIQIFTAIFDMNTDVIILSQFMYRLKNQKKKMIFQPQLFKDSITREKVRLS  
LWGVLCPVYIPYSFR

>sp|F5H4A9|CC080\_HUMAN Uncharacterized membrane protein C3orf80 OS=Homo sapiens  
GN=C3orf80 PE=2 SV=1

MWGPVTAEGLSVAPAPPPLLPLLLLLALALVAPSRGGGGCAELACGERERCCDATNATA  
VRCKLPLHAFLDNVGFVRKLSGLLILLVLFAIGYFLQRIICPSPRRYPRGQARPGQRP  
GPPGGAGPLGGAGPPDDDDSPALLRDEAAAGSQDSLDSGGGGRGRGGGGRSDPSCASE  
HEMRVVSVPVFLQLPSYEEVKYLPITYEESMRLQQLSPGEVVLVSVLGRPRGGVAAEPDGG  
EGRYPLI

>sp|Q96HB5|CC120\_HUMAN Coiled-coil domain-containing protein 120 OS=Homo sapiens  
GN=CCDC120 PE=1 SV=1

MEVKGQLISSPTFNAPAALFGEAAPQVKSERLRGLLDRQRTLQEALSLKLQELRKVCLQE  
AELTGQLPPECPLEPERPQLVRRRPPTARAYPPHPNQAHHSCLPAEELALEALEREVS  
VQQQIAAAARRLALAPDLSTEQRRRRRQVQADALRRLHEEEQLRDVRARLGLPVLPLPQ  
PLPLSTGSVITTTQGVCLGMRLAQLSQEDVVLHSESSLSGASHDNEEPHGCFSLAERP  
SPPKAWDQLRAVSGGSPERRTPWKPPPSDLYGDLKSRNRSVASPTSPTRSLPRSASSFEG  
RSVPATPVLTRGAGPQLCKPEGLHSRQWSGSQDSQMGFPRADPASDRASLFVARTRRSNS  
SEALLVDRAAGGGAGSPAPLAPSASGPPVCKSSEVLYERPQPTPAFSSRTAGPPDPPRA  
ARPSSAAPASRGAPRLPPVCGDFLLDYSLDRLPRSGGGTGWGELPPAAEVPGLSRRDG  
LLTMLPGPPPVAADSNSPLLRTKDPHTRATRTKPCGLPPEAAEGPEVHPNPLLWMPPT  
RIPSAGERSGHKNLALEGLRDWYIRNSGLAAGPQRRPVLPVSGPPHPPFLHARCYEVGQA  
LYGAPSQAPLPHSRSTAPPVSGRYGGCFY

>sp|Q86Z20|CC125\_HUMAN Coiled-coil domain-containing protein 125 OS=Homo sapiens  
GN=CCDC125 PE=1 SV=2

MSKVARSSSESDVQLWETEEDDMTEGDLGYGLGRKPGGIYEIEFSHRSRKRSKGKNFSPP

PFPRKGEEERNEASFQYSKHKSQQDTFPQVSRI SNYRRQSSTVDSNSELSNEELRQCLNET  
LEEVEMLKTELEASQRQLRGKEEALKILQSMAILGKATSHTQAVLQKTMEQNRSLKEIN  
ALQWEIEFDHNRFKNI EESWIQKYDRLNCENAVLKENLKVKTEEIKMLKSDNAVLNQRYL  
EALAMLDIKQQKMAQENMCCDKSGFAEASGLELAVLGACLCHGPGGNPCSCARMAASTRK  
LLLQLKQELEILQKSKEEAYVMADAFRIAFEQQLMRKNDQALQLTQMDKMHHKATKWMNW  
KHLKEDGFSPSRSKTFTGQRLGLMPLSENSSKRMEDQDSPQEVLMKLIDLLNDKEEALAH  
QRKVSYMLARALEDKDTASNENKEKNPIKENFPFNNPWRTSEFSVLGDPIHSSVCILNS  
VGCICSIQHSQIDPNYRTLKRSHSLPSSIIF

>sp|Q96EE4|CC126\_HUMAN Coiled-coil domain-containing protein 126 OS=Homo sapiens  
GN=CCDC126 PE=2 SV=2

MFFTISRKNMSQKLSLLLLVFGLIWGLMLLHYTFQQPRHQSSVKLREQILDLSKRYVKAL  
AEENKNTVDVENGASMAGYADLKRTI AVLDDILQRLVKLENKVDYIVVNGSAANTTNGT  
SGNLVPVTTNKRTNVSGSIR

>sp|Q96MF4|CC140\_HUMAN Coiled-coil domain-containing protein 140 OS=Homo sapiens  
GN=CCDC140 PE=2 SV=1

MGDECSNPDLAEPGSSPPWDHGNQRQEAA NESNTRVPRVLKAHLGPETAQPTKRSKRNR  
WRRQSCQGSPARSGQLG SADLGLQRGVLSAARTCLSEISNSTRASPESAQSTDPGRA  
ARPRTRTLP TPHSFKIGEEAEEMKKKKERKRRKERKKERNFKK

>sp|A5D8V7|CC151\_HUMAN Coiled-coil domain-containing protein 151 OS=Homo sapiens  
GN=CCDC151 PE=1 SV=1

MTSPLCRAASANALPPQDQASTPSSRVKGREASGKPSHLRGKGTAAWTPGRSKGGSFHR  
GAGKPSVHSQVAELHKKIQ LLEGDRKAFFESSQWNIKKNQETISQLRKETKALELKLLDL  
LKGDEKVVQAVIREWKWEKPYLKNRTGQALEHLDHRLREKVQQNALRHQVVLRRRLEE  
LQLQHSLRLLEMAEAQNRHTEVAKTMRNLENRLEKAQMQAEAEHITSVYLQLKAYLMDE  
SLNLENRLDSMEA EVVRTKHEALHVVNQEALNARDIAKNQLQYLEETLVREKKRERY  
ISECKKRAEEKLENERMERKTHREHLLQSDDTIQDSLHAKKEELQRWSMYQMEVIFG  
KVKDATGTDETHSLVRRFLAQGDTFAQLETLKSENEQTLVRLKQEKQQLQRELEDLYSG  
EATLVSQQKLQAEAQERLKKKEERRHAEAKDQLERALRAMQVAKDSLEHLASKLIHITVED  
GRFAGKELDPQADNYVPNLLGLVEEKLLKLQAQLQGHVQEMLCHIANREFLASLEGRLP  
EYNTRIALPLATSKDKFFDEESEEDNEVVTRASLKIRSQKLIESHKKHRRSRRS

>sp|Q9POB6|CC167\_HUMAN Coiled-coil domain-containing protein 167 OS=Homo sapiens  
GN=CCDC167 PE=1 SV=2

MTKKKRENLGVALEIDGLEEKLSQCRRDLEAVNSRLHSRELSPEARRSLEKEKNSLMNKA  
SNYEKELKFLRQENRKNMLLSVAIFILLTLVYAYWTM

>sp|Q8WUD4|CCD12\_HUMAN Coiled-coil domain-containing protein 12 OS=Homo sapiens GN=CCDC12  
PE=1 SV=1

MEATTAGVGRLEEEALRRKERL KALREKTGRKDKEDGEPKTKHLREEEEEGEKHRELRLR  
NYVPEDEDLKRRVPQAKPVAVEEKVKEQLEAAKPEPVIEEVDLANLAPRKPDWDLKRDV  
AKKLEKLKRTQRAIAELIRERLKGQEDSLASAVDAATEQKTCDS

>sp|Q502W7|CCD38\_HUMAN Coiled-coil domain-containing protein 38 OS=Homo sapiens GN=CCDC38  
PE=2 SV=1

MSSNLLPTLNSGGKVKDGSTKEDRPYKIFFRDLFLVKENEMAAKETEFMNRNMKVYQKT  
TFSSRMKSHSYLSQLAFYPKRSGRSFEKFGPGPAPIPRLIEGSDTKRTVHEFINDQRDRF  
LLEYALSTKRNTIKKFEKDIAMRERQLKKAEEKLQDDALAFEEFLRENDQRSVDALKMAA

QETINKLQMTAELKKASMEVQAVKSEIAKTEFLLREYMKYGFLLQMSPKHWQIQQALKR  
AQASKSKANIILPKILAKLSLHSSNKEGILEESGRTAVLSEASQGRDSQGKPSRSLTRT  
PEKKKSNALESFGSEDSLEFLLDDEMDVDLEPALYFKEPEELLQVLRELEEQNLTQYS  
QDVNENLEEVNKRKVIQDKTNSNIEFLLEQEKMLKANCVREEEKAELQLKSKLFSFGE  
FNSDAQEILIDSLSKKITQVYKVCIGDAEDDGLNPIQKLVKVESRLVELCDLIESIPKEN  
VEAIERMKQKEWRQKFRDEKMKEQQRHQERLKAALKAQPKKKLGRRLVFHSPKPPSG  
NKQQLPLVNETKTKSQEEYFFT

>sp|Q92583|CCL17\_HUMAN C-C motif chemokine 17 OS=Homo sapiens GN=CCL17 PE=1 SV=1  
MAPLKMLALVTLGLASLQHIHAARGTNVGRECCLEYFKGAIPRLKLTWYQTSSEDCSRD  
AIVFVTVQGRAICSDPNKRVKNVAVKYLQSLERS

>sp|P22362|CCL1\_HUMAN C-C motif chemokine 1 OS=Homo sapiens GN=CCL1 PE=1 SV=1  
MQIITLALVCLLAGMWPEDVDSKSMQVPFSCCFSAEQEIPRLAILCYRNTSSICSNE  
GLIFKLKRGKEACALDTVGWVQRHRKMLRHCPKSRK

>sp|O00626|CCL22\_HUMAN C-C motif chemokine 22 OS=Homo sapiens GN=CCL22 PE=1 SV=2  
MDRLQTALLVVLVLLAVALQATEAGPYGANMEDSVCCRQVRYRLPLRVVKHFYWTSDSC  
PRPGVLLTFRDKEICADPRVPVVKMILNLSQ

>sp|P80075|CCL8\_HUMAN C-C motif chemokine 8 OS=Homo sapiens GN=CCL8 PE=1 SV=2  
MKVSAALLCLLLMAATFSPQGLAQDSVSIPITCCFNVINRKIPIQRLESYTRITNIQCP  
KEAVIFKTKRGKEVCADPKERWVRDSMKHLDQIFQNLKP

>sp|P14635|CCNB1\_HUMAN G2/mitotic-specific cyclin-B1 OS=Homo sapiens GN=CCNB1 PE=1 SV=1  
MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPRTALGDIGNKVSEQLQAKM  
PMKKEAKPSATGKVIDKKLPKPLEKVPMLVPVPVSEPVPEPEPEPEPEPVKEEKLSPET  
LVDTASPSMETSGCAPAEEDLCQAFSDVILAVNDVDAEDGADPNLCSEYVKDIYAYLRQ  
LEEEQAVRPKYLLGREVTGNMRAILIDWLQVQMKFRLLQETMYMTVSIIDRFMQNNCVP  
KKMLQLVGVTAMFIASKYEEMYPEIGDFAFVTDNTYTKHQIRQMEMKILRALNFGGLRP  
LPLHFLRRASKIGEVDVEQHTLAKYLMELTMDYDMVHFPPSQIAAGAFCLALKILDNGE  
WTPTLQHLYSYTEESLLPVMQHLAKNVVMVNQGLTKHMTVKNKYATSKHAKISTLPQLNS  
ALVQDLAKAVAKV

>sp|P24385|CCND1\_HUMAN G1/S-specific cyclin-D1 OS=Homo sapiens GN=CCND1 PE=1 SV=1  
MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPSMRKIV  
ATWMLEVCEEQKCEEEVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLT  
AEKLCIYTDNSIRPEELLQMEILLVNKLKWNLAAMTPHDFIEHFLSKMPEAEENKQIRK  
HAQTFVALCATDVKFISNPPSMAAGSVVAAVQGLNLRSPNNFLSYRLTRFLSRVIKCD  
PDCLRACQEQIEALLESSLRQAQQNMDPKAAEEEEEEEEVDLACTPTDVRDVI

>sp|P32246|CCR1\_HUMAN C-C chemokine receptor type 1 OS=Homo sapiens GN=CCR1 PE=1 SV=1  
METPNTTEDYDTTTEFDYGDATPCQKVNERAFGAQLLPPLYSLVFVIGLVGNILVVLVLV  
QYKRLKNMTSIYLLNLAISDLLFLFTLPFWIDYKLKDDWVFGDAMCKILSGFYTGLYSE  
IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIWALAILASMPGLYFSKTQWEFTH  
HTCSLHFPHESLREWKLQALKLNLFGVLPLLVMIICTGTGIKILLRRPNEKSKAVRL  
IFVIMIIFFLFWTPYNTLILISVFQDFLFTHECEQSRHLDLAVQVTEVIAYTHCCVNPVI  
YAFVGERFRKYLRQLFHRRVAVHLVKWLPFLSVDRLERVSSTSPSTGEHLSAGF

>sp|P41597|CCR2\_HUMAN C-C chemokine receptor type 2 OS=Homo sapiens GN=CCR2 PE=1 SV=1  
MLSTSRSRFIRNTNESGEEVTTFFDYDYGAPCHKFDVKQIGAQLLPPLYSLVFIFGFVGN  
MLVVLILINCKKLKCLTDIYLLNLAISDLLFLITLPLWAHSAANEVWFGNAMCKLFTGLY



HIGYFGGIFFIILLTIDRYLAIVHAVFALKARTVTFGVVTSVITWLVAVFASVPGIIFTK  
CQKEDSVYVCGPYFPRGWNNFHTIMRNILGLVPLLMVICYSGILKTLLRCRNEKKRHR  
AVRVIFTIMIVYFLFWTPYNIVILLNTFQEFFGLSNCESTSQLDQATQVTETLGMTHCCI  
NPITYAFVGEKFRSLFHIALGCRIAPLQKPVCGGPGVRPGKNVKVTTQGLLDGRGKGKSI  
GRAPEASLQDKEGA

>sp|Q6IQ19|CCSAP\_HUMAN Centriole, cilia and spindle-associated protein OS=Homo sapiens  
GN=CCSAP PE=1 SV=2

MSPGSGVKSEYMKRYQEPRWEEYGPCYRELLHYRLGRRLLEQAHAPWLWDDWGPAGSSED  
SASSESSGAGGPAPRCAPSPPPVPATQEEAERRARGAPEEQDAEAGDAEAEDAEDAA  
LPALPVKDVEDKPEQQTRETDTKSPSTSTEPQQSALFARGNRKAVKSPQRSSSKIKEN  
KHPFALYGWGEKQTDTSQKTHNVCASAPVHEIHESALRAKNRRQVEKRKLVAQRQRAHS  
VDVEKNRKMKASSENPMWTEYMRCSARA

>sp|Q96FF9|CDCA5\_HUMAN Sororin OS=Homo sapiens GN=CDCA5 PE=1 SV=1

MSGRRTSRGGAAQRSGPRAPSPTKPLRRSQRKSGSELPSILPEIWPKTPSAAAVRKPIVL  
KRIVAHAVEVPAVQSPRRSPRISFFLEKENEPGRELTKEDLFKTHSVPATPTSTPVPNP  
EAESSSKEGELDARDLEMSKKVRRSYSRLETLSASTSTPGRRSCFGFEGLLGAEDLSGV  
SPVVC SKLTEVPRVCAKPWAPDMTLPGISPPPEKQKRKKKKMPEILKTELDEWAAAMNAE  
FEAAEQFDLLVE

>sp|Q9H5V8|CDCP1\_HUMAN CUB domain-containing protein 1 OS=Homo sapiens GN=CDCP1 PE=1 SV=3

MAGLNCGVSIALLGVLLGAARLPRGAFAFEIALPRESNITVLIKLGTPTLLAKPCYIVI  
SKRHITMLSIKGERIVFTFSCQSPENHFVIEIQKNIDCMGCPFGEVQLQPSTSLPT  
LNRTFIWDVKAHKSIGLELQFSIPRLRQIGPGESCPDGVTHSISGRIDATVVRIGTFCSN  
GTVSRIKMQEGVKMALHLPWFHPRNVSGFSIANRSSIKRLCIIESVFEGEGSATLMSANY  
PEGFPEDELMTWQFVVPAPHLRASVSFLNFNLSNCERKEERVEYYIPGSTTNPEVFKLEDK  
QPGNMAGNFNLSLQGCDDAQSPGILRLQFQVLVQHPQNESNKIYVVDLSNERAMSLTIE  
PRPVKQSRKFVPGFCVLESRTCSSNLTLTSGSKHKISFLCDDLTRLWMNVEKTI SCDTH  
RYCQRKSYSLQVPSDILHLPVELHDFSWKLLVPKDRLSLVLPQKLQQHTHEKPCNTSF  
SYLVASAIPSQDLYFGSFCPGGSIKQIQVKQNISVTLRTFAPSFQQEASRQGLTVSFIPY  
FKEEGVFTVTPDTKSKVYLRTPNWDRGLPSLTSVSWNISVPRDQVACLTFKERSGVVCQ  
TGRAFMIIQEQRTRAEEIFSLDEDVLPKPSFHHSFWVNISNCSPTSGKQLDLLFSVTLT  
PRTVDLTVILIAAVGGGVLLLSALGLIICCVKKKKKTKNGPAVGIYNDNINTEMPRQPK  
KFQKGRKDNDSHVYAVIEDTMVYGHLQDSSGSFLQPEVDTYRPFQGTMGVCPPSPPTIC  
SRAPTAKLATEEPPPRSPPESESEPYTFSHPNNGDVSSKDTDIPLLNTQEPMEPAE

>sp|Q9BYE9|CDHR2\_HUMAN Cadherin-related family member 2 OS=Homo sapiens GN=CDHR2 PE=1  
SV=2

MAQLWLSCFLLPALVVSVAANVAPKFLANMTSVILPEDLPVGAQAFWLVAEDQDNDPLTY  
GMSGPNAYFFAVTPKTGEVKLASALDYETLYTFKVTISVSDPYIQVQREMLVIVEDRNDN  
APVFQNTAFSTSINETLPVGSVFSVLAVDKDMGSAGMVVYSIEKVIPSTGDSEHLFRIL  
ANGSIVLNGSLSYNNKSAFYQLELKACDLGGMVHNTFTIQCSLPVFLSISVVDQPDLDPQ  
FVREFYSASVAEDAAKGTSVLTV EAVDGDKGINDPVIYSISYSTRPGWFDIGADGVIRVN  
GSLDREQLLEADEEVQLQVTATETHLNIGQEAKVSIWVTVRVMVDNDHKPEFYNCSLPA  
CTFTPEEAQVNFTGYVDEHASPRIPIDDLTMVVYDPDKGSNGTFLLSLGGPDAAEAFSVSP  
ERAVGSASVQVLVRVSALVDYERQTAMAVQVVATDSVSQNFVSAMVTIHLRDINDHRPTF  
PQSLYVLTVPESATGSVVTDSIHATDPTGAWGQITYSLLPGNGADLFQVDPVSGTVTV

RNGELLDRESQAVYYLTQATDGGNLSSTTLQIHLLDINDNAPVVGSGSYNIFVQEEEGN  
VSVTIQAHDNDEPGTNNRLLFNLLPGPYSHNFSLDPDTGLLRNLGPLDREAIDPALEGR  
IVLTVLVSDCGEVLGTVKVNVTITVEDINDNLPFNQSSYNFTVKEEDPGVLVGTVKAWD  
ADQTEANNRISFSLSGSANYFMIRGLVLGAGWAEGYLRPPDVSLDYETQPVFNLTVSA  
ENPDPQGGETIVDVCVNVKDVNDNPPTLDVASLRGIRVAENGSHGQVAVVVASDVTSA  
QLEIQLVNILCTKAGVDVGLCWGWSVAANGSVYINQSKAIDYEACDLVTLVVRACDLA  
TDPGFQAYSNNGSLITIEDVNDNAPYFLPENKTFVIIPELVLPNREVASVRARDDDSGN  
NGVILFSILRVDFISKDGATIPFQGVFSIFTSEADVAGSIQPVTSLDSTLQGTQVTV  
QARDRPSLGPFLAATTLNLTVDQSYRSRLQFSTPKEEVGANRQAINAALTQATRITVY  
IVDIQDIDSAARARPHSYLDAYFVFPNGSALTDEL SVMIRNDQDSLQQLQLGLVVLGS  
QESQESDLSKQLISVIGLGVALLVLVIMTMAFVCVRKSYNRKLQAMKAAKEARKTAAG  
VMPSAPAIPGTNMYNTERANPMLNLPNKDLGLEYLSPSNDLDSVSVNSLDDNSVDVDKNS  
QEIKEHRPPHTPPEPDEPLSVVLLGRQAGASGQLEGPSYTNAGLDTTDL

>sp|Q6ZTQ4|CDHR3\_HUMAN Cadherin-related family member 3 OS=Homo sapiens GN=CDHR3 PE=1  
SV=1

MQEAIILLALLGAMSGGEALHLILLPATGNVAENSPPGTSVHKFSVKLSASLSPVIPGFP  
QIVNSNPLTEAFRVNWLSGTYFEVVTGMEQLDFETGPNIFDLQIYVKDEVGVTDLQVLT  
VQVTDVNEPPQFQGNLAEGHLHYIVERANPGFIYQVEAFDPEDTSRNIPLSYFLISPPKS  
FRMSANGTLFSTTELD FEAGHRSFHLIVEVRDSGGLKASTELQVNIVNLNDEVPRFTSPT  
RVYTVLEELSPGTIVANITAEDPDDEGFPSHLLYSITTVSKYFMINQLTGTIQVAQRIDR  
DAGELRQNPTISLEVLVKDRPYGGQENRIQITFIVEDVNDNPATCQKFTFSIMVPERTAK  
GTLLLDLNKFCFDDSEAPNNRNFNFTMPSGVSGSRFLQDPAGSGKIVLIGLDYENPSN  
LAAGNKYTVIIQVQDVAPPYKNNVYVYILTSPENEFPLIFDRPSYVFDVSERRPARTRV  
GQVRATDKDLPQSSLLYSISTGGASLQYPNVFWINPKTGELQLVTKVDCETTPIYILRIQ  
ATNNEDTSSVTVTNILEENDEKPICTPNSYFLALPVDLKVGTNIQNFKLCTDLDSSPR  
SFRYSIGPGNVNNHFTFSPNAGSNVTRLLLTSRFDYAGGFDKIWDYKLLVYVTDNLMSD  
RKKAEALVETGTVTLSEIKVIPHTTIIITTPRPRVTYQVLRKNVYSPSAWYVPFVITLGS  
ILLGLLVYLVVLLAKAIHRHCPCCKGKNKEPLTKKGETKTAERDVVETIQMNTIFDGE  
AIDPVTGETYEFNSKTGARKWKDPLTQMPKWKESSHQAAPRRVTAGEGMGSLRSANWEE  
DELSGKAWAEDAGLSRNEGGKLGPNKRNPAFMNRAYPKPHPGK

>sp|Q00537|CDK17\_HUMAN Cyclin-dependent kinase 17 OS=Homo sapiens GN=CDK17 PE=1 SV=2

MKKFKRRLSLTLRGSQTIDESLSELAEQMTIEENSSKDNEPIVKNGRPPTSHSMHSFLHQ  
YTGSFKKPPLRRPHSVIGGSLGSFMAMPNGSRLDIVHENLKMGSDESQASGTSSDEV  
QSPTGVCLRNRIHRRISMEDLNKRLSLPADIRIPDGYLEKLQINSPPFDQPMSSRRRAS  
LSEIGFGKMETYIKLEKLGEPTYATVYKGRSKLTENLVALKEIRLEHEEGAPCTAIREVS  
LLKDLKHANIVTLHDIVHTDKSLTLVFEYLDKDLKQYMDDCGNIMSMHNVKLFLYQILRG  
LAYCHRRKVLHRDLKPQNLLINEKGELKLADFLARAKSVPTKYSNEVVTLWYRPPDVL  
LGSSEYSTQIDMWGVCIFFEMASGRPLFPGSTVEDELHLIFRLGTSPQETWPGISSNE  
EFKNYNFPKYKPQLINHAPRLDSEGLITKFLQYESKKRVSAEAMKHVYFRSLGPRI  
HALPESVSIFSLKEIQLQKDPGFRNSSYPETGHGKNRRQSMFL

>sp|Q16667|CDKN3\_HUMAN Cyclin-dependent kinase inhibitor 3 OS=Homo sapiens GN=CDKN3 PE=1  
SV=1

MKPPSSIQTSEFDSSDEEPIEDEQTPIHISWLSLVRNCSQFLGLCALPGCKFKDVRRNV  
QKDTEELKSCGIQDIFVFCTRGELSKYRVPNLLDLYQQCGIITHHHPIADGGTPDIASCC

EIMEELTTCLKNYRKTLIHCYGGGRSCLVAACLLLYLSDTISPEQAIDSLRDLRGSGAI  
QTIKQYNYLHEFRDKLAHLSSRDSQSRSVSR

>sp|Q8N8D9|CE056\_HUMAN Uncharacterized protein C5orf56 OS=Homo sapiens GN=C5orf56 PE=2  
SV=2

MDSLAAGELNASHQPWVPEFVAYWRKTHQGNLQTLHLLHLLCSCLHHLYNASCHPAFPV  
EYSHAVCCLQPRFWKEMSPFSSSSTTHLFSKCFYTCWCWAWQQCSSEQNHQPCSHAAYN  
QVERQT

>sp|Q9BXQ6|CECR6\_HUMAN Cat eye syndrome critical region protein 6 OS=Homo sapiens GN=CECR6  
PE=2 SV=1

MRPALGHPRSVSSASGSFPPPPAAARLQPLFLRGGSFRRRSGDSSTSTSTSRGGGGGR  
RGGGGGSPSSSTGAEREDDDESLSVSKPLVPNAALLGPPAQVGAPAGPAPVAFSSSAATS  
SSTSTPTSSCSMTAADFGGGAAGAVGGPGSRSAGGAGGTGTGSGASCCPCCCCGCPDR  
PGRGRRRRCAPSPRCRWGYQALSVVLLAQGGLLDLYLIAVTDLYWCSWIATDLVVVVG  
WAIFFAKNSRGRGGAASGAHNHLLHHHHAAPPLHLPAPSAATAGAKARGARGGAGGAGG  
GLGAAAAAGEFAFAYLAWLIYSIAFTPKVVLILGTSILDIELRAPFGTTGFRLTMALSV  
PLLYSLVRAISEAGAPPGSAGPLLLQPQRHRAAGCFLGTCLDLDLSFTLVELMLEGRVPL  
PAHLRYLLIAVYFRTLASPVLWLYELNAAAAAASWQQASGPGSCSRLRLLGCLVDVP  
LLALRCLLVVSYQQPLSIFMLKNLFFLGCRGLEALEGCWDRGNRASPSRARGGYGAPPSA  
PPPPPPPPQGGSQLGHCISENEGGAHYVNTLAVASQN

>sp|Q92879|CELFI\_HUMAN CUGBP Elav-like family member 1 OS=Homo sapiens GN=CELFI PE=1 SV=2

MNGTLDHPDQPDLDIAIKMFVGQVPRTWSEKDLRELFEQYGAVYEINVLDRSQNPQSKG  
CCFVTFYTRKAALAEQNALHNMKVLPGMHHPIQMKPADSEKKNNAVEDRKLFIGMISKKCT  
ENDIRVMFSSFGQIEECRILRPGDGLSRGCAVFTFTTRAMAQTAIKAMHQAQTMEGCSSP  
MVVKFADTKQDKQKRMALQQLQQMQQISAASVWGNLAGLNTLGPQYLALYLQLLQQTAS  
SGNLNTLSSLHPMGGGLNAMQLQNLALAAAAAQAQNTPSGTNALTSSSPLSVLTSSGSS  
PSSSSNSVNPIASLGALQTLAGATAGLNVGSLAGMAALNGGLGSSGLSNGTGSTMEALT  
QAYSGIQYAAAAALPTLYNQNLTTQQSIGAAGSQKEGPEGANLFIYHLPQEFQDQDLQ  
FMPFGNVVSAKVIDKQTNLSKCFGVSYDNPVSAQAAIQSMNGFQIGMKRLKVQLKRSK  
NDSKPY

>sp|Q9BZC1|CELFI\_HUMAN CUGBP Elav-like family member 4 OS=Homo sapiens GN=CELFI PE=1 SV=1

MYIKMATLANGQADNASLSTNGLGSSPGSAGHMNGLSHSPGNPSTIPMKDHDAIKLFIGQ  
IPRNLDEKDLKPLFEEFGKIYELTVLKDRFTGMHKGCAFLTYCERESALKAQSALHEQKT  
LPGMNRPIQVKPADSESRRGSSCLRQPPSQDRKLFVGMLNKQSEDDVRRLFEAFGNIEE  
CTILRPGDGNKGCFAVKYSSHAEQAALINALHGSQTMPGASSSLVVKFADTDKERTMRR  
MQQMAGQMGMFNPMIIPFGAYGAYALMQQAALMASVAQGGYLNPMIAFAAAQMQMA  
ALNMNGLAAAPMTPTSGGSTPPGITAPAVPSIPSPIGVNGFTGLPPQANGQPAEAVFAN  
GIHPYPAQSPTAADPLQAYAGVQQYAGPAAYPAAYGQISQAFPPPMIPQQQREGPEG  
CNLFYHLPQEFQDAELMQMFLPFGFVSFDNPASAQTAIQAMNGFQIGMKRLKVQLKRPK  
DANRPY

>sp|Q9NYQ6|CELSR1\_HUMAN Cadherin EGF LAG seven-pass G-type receptor 1 OS=Homo sapiens  
GN=CELSR1 PE=1 SV=1

MAPPPPPVLPVLLLLAAAAALPAMGLRAAAWEPRVPGGTRAFALRPGCTYAVGAACTPRA  
PRELLDVGRDRLAGRRRVSGAGRPLPLQVRLVARSAPTALSRRRLRARTHLPGCGARARL  
CGTGARLCGALCFVPVGGCAAAQHSALAAPTTLACRCPPRPRPCGRPICLPGGGSRV

LRLLCALRRAAGAVRVGLALEAATAGTPSASPSPPLPPNLPEARAGPARRARRGTSGR  
GSLKFPMPNYQVALFENEPAGTLILQLHAHYTIEGEEERVSYMEGLFDERSRGYFRIDS  
ATGAVSTDSVLDRETKETHVLRVKAVDYSTPPRSATTYITVLVKDNDHSPVFEQSEYRE  
RVRENLEVGYEVLTRASDRDSPINANLRYRVLGGAWDVFQLNESSGVVSTRAVLDRREA  
AEYQLLVEANDQGRNPGPLSATATVYIEVEDENDNYPQFSEQNYVVQVPEDVGLNTAVLR  
VQATDRDQGNAAIHYSILSGNAVAGFYLHSLSGILDVINPLDFEDVQKYSLSIKAQDGG  
RPPLINSSGVVSVQVLDVNDNEPIFVSSPFQATVLENVPLGYPVVIQAVDADSGENARL  
HYRLVDTASTFLGGGSAGPKNPAPTPDFPFQIHNSSGWITVCAELDREEVEHYSFGVEAV  
DHGSPPMSSSTSVSITVLDVNDNDPVFTQPTYELRLNEDAAVGSSVLTQARDRDANSVI  
TYQLTGGNTRNRFALSSQRGGGLITLALPLDYKQEQYVLAVTASDGTRSHTAHVLINVT  
DANTHRPVFQSSHYTVSVSEDRPVGTSIATLSANEDTGENARITYVIQDPVPQFRIDPD  
SGTMYTMMELDYENQVAYTLTIMAQDNGIPQKSDTTTLEILILDANDNAPQFLWDFYQGS  
IFEDAPPSTSILQVSATDRDSGPNGRLLYTFQGGDDGDGDFYIEPTSGVIRTQRRLDREN  
VAVYNLWALAVDRGSPTPLSASVEIQVTILDINDNAPMFEKDELELFEENNPVGSVVAK  
IRANDPDEGPNQAIMYQIVEGDMRHFFQLDLLNGDLRAMVELDFEVRREYVLVVQATSAP  
LVSRATVHILLVDQNDNPPVLPDFQILFNHYVTNKSNSFPTGVIGCIPAHDPDVSDSLNY  
TFVQGNELRLLLLDPATGELQLSRDLNNRPLEALMEVSVSDGIHSVTAFCRLRVTIITD  
DMLTNSITVRLENMSQEKFLSPLLALFVEGVA AVLSTTKDDVFVFNQNDTVDVSSNILNV  
TFSALLPGGVRGQFFPSEDLQEQIYLNRTLTTISTQRVLPFDDNICLREPCENYMKCVS  
VLRFDSSAPFLSSTTVLFRPIHPINGLRCRCPPGFTGDYCETEIDLCYSDPCGANGRCRS  
REGGYTCECFEDFTGEHCEVDARSGRCANGVCKNGGTCVNLLIGGFHCVCPPGEYERPYC  
EVTTRSFPFQSFVTRGLRQRFHFTISLTFATQERNGLLLYNGRFNEKHDFIALEIVDEQ  
VQLTFSAGETTTTVAPKVPVSGVSDGRWHSVQVQYNNKPNIGHLGLPHGPSGEKMAVTV  
DCDTTMAVRFGKDIGNYSCAAQGTQTGSKKSLDLTGPLLLGGVPNLPEDFPVHNRQFVGC  
MRNLSVDGKNVDMAGFIANNGTREGCAARRNFCDGRRQNGGTCVNRWNMYLCECPLRFG  
GKNCEQAMPHPQLFSGESVVSWSDLNIIISVPWYLGMLFRTRKEDSVLMEATSGGPTSFR  
LQILNNYLQFEVSHGPSDVESVMSGLRVT DGEWHLLIELKNVKEDSEM KHLVTMTLDY  
GMDQNKADIGMPLGLTVRSVVVGASEDKVSVRRGFRGCMQGV RMGGTPTNVATLNMN  
ALKVRVKDGDVDDPCTSSPCPPNSRCHDAWEDYSCVCDKGYLG INCVDACHLNPENMG  
ACVRSPGSPQGYVCEGPHSHYGPYCENKLDLPCPRGWWGNPVCGPCHCAVSKGFDPDCNK  
TNGQCCKENYYKLLAQDTCLPCDCFPHGSHSRTCDMATGQCACKPGVIGRQCNRCNPF  
AEVTTLGCEVIYNGCPKAFAEAGIWWPQTKFGQPAAVPCPKGSVGNVRHCSGEKGWLPPE  
LFNCTTISFVDLRAMNEKLSRNETQVDGARALQLVRALRSATQHTGT LFGNDVRTAYQLL  
GHVLQHESWQGFDLAATQDADFHEVDIHS GSALLAPATRAAWEQIQRSEGGAQLLRRL  
EGYFSNVARNVRRTYLRPFVIVTANMILAVDIFDKFNFTGARVPRFDTIHEEFPRELESS  
VSFPADFFRPPEEKEGPLLRPAGRRTTPQTTRPGPGTEREAPISRRRRHPDDAGQFAVAL  
VIIYRTL GQLLPERYDPDRRLR LPHRPIINTPMVSTLVYSEGAPLPRPLERPVLVEFAL  
LEVEERTKPVCFWNHSLAVGGTGGWSARGCELLSRNRTHVACQCSHTASFAVLMDISRR  
ENGEVLPLKIVTYAAVSLSLAALLVAFVLLSLVRMLRSNLHSIHKHLAVALFLS QL VFVI  
GINQTENPFLCTVVAILLHYIYMSTFAWTLVESLHVYRMLTEVRNIDTGPMRFYVVGWG  
IPAIVTGLAVGLDPQGYGNPFCWLSLQDTLIWSFAGPIGAVIIINTVTSVLSAKVSCQR  
KHHYYGKKGIVSLRTAFLLLLLISATWLLGLLAVNRDALSFHYLFAIFSGLQGPVLLF  
HCVLNQEV RKHLKGVLGGRKLHLED SATTRATLLTRSLNCNTTFGDGPDMLRTDLGESTA  
SLDSIVRDEGIQKLGVS SGLVRGSHGEPDASLM PRSCKDPPGHSDSDSEL SLDEQSSSY

ASSHSSDSEDDGVGAEEKWDPARGAVHSTPKGDAVANHPAGWPDQSLAESDSEDPSGKP  
RLKVETKVSVELHREEQGSHRGEYPPDQESGGAARLASSQPPEQRKGILKNKVITYPPPLT  
LTEQTLKGRLREKLADCEQSPTSSRTSSLGSGGPDCAITVKSPPREPGRDHLNGVAMNVR  
TGSAQADGSDSEKP

>sp|P19835|CEL\_HUMAN Bile salt-activated lipase OS=Homo sapiens GN=CEL PE=1 SV=3

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ALENPQPHPGWQGTLLKAKNFKKRCLQATITQDSTYGDEDCLYLNIWVPQGRKQVSRDLPV  
MIWIYGAFLMGSGHGANFLNNLYDGEEIATRGNVIVTFNYRVGPLGFLSTGDANLPG  
NYGLRDQHMAIAWVKRNIAAFGGDPNNITLFGESAGGASVSLQTLSPYNKGLIRRAISQS  
GVALSPWVIQKNPLFWAKKVAEKVGCPVGDAARMAQCLKVTDPRALTLAYKVPLAGLEYP  
MLHYVGFVPVIDGDFIPADPINLYANAADIDYIAGTNNMDGHIFASIDMPAINKGNKKVT  
EEDFYKLVSEFTITKGLRGAKTTDFVYTESWAQDPSQENKKKTVVDFETDVLFLVPTEIA  
LAQHRANAKSAKTYAYLFSHPSRMPVYPKWVGADHADDIQYVFGKPFATPTGYRPQDRTV  
SKAMIAYTWNFAKTGDPNMGDSAPVTHWEPYTTENSGYLEITKKMGSSSMKRSLRTNFLR  
YWTLYLALPTVTDQEATPVPPTGDSEATPVPPTGDSETAPVPPTGDSGAPPVPPTGDSG  
APPVPPTGDSGAPPVPPTGDSGAPPVPPTGDSGAPPVPPTGDSGAPPVPPTGDSGAPPVP  
PTGDSGAPPVPPTGDAGPPVPPTGDSGAPPVPPTGDSGAPPVPTPTGDSETAPVPPTGDS  
GAPPVPPTGDSEAAPVPPTDDSKAQMPAVIRF

>sp|B2RD01|CENP1\_HUMAN CENPB DNA-binding domain-containing protein 1 OS=Homo sapiens  
GN=CENPBD1 PE=2 SV=1

MPGERPTDATVIPSAREKAITLDLKLEVLRRFEAGEKLSQIAKALDLAISTVATIRDS  
KEKIKASSQIATPLRASRLTRHRSVMESMEQLLSLWLEDQSQPNATLSAAIVQEKAED  
DLQREHGEQSQTERFHASQGWLVRFKECHCLPHFKMNSAAPSNNKDMYTEMLKSIIEEGEY  
TPQVSLT

>sp|Q96H22|CENPN\_HUMAN Centromere protein N OS=Homo sapiens GN=CENPN PE=1 SV=2

MDETVAEFIKRTILKIPMNETTILKAWDFLSENQLQTVNFRQRKESVVQHLIHLCEEKR  
ASISDAALLDIIYMQFHQHQKQVWEVFQMSKGPGEVDLFDKQFKNSFKKILQRALKNVT  
VSFRETEENAVWIRIAWGTQYTKPNQYKPTYVVYYSQTPYAFTSSSMLRRNTPLLGGALT  
IASKHHQIVKMDLSRYLDSLKAIVFKQYNQTFETHNSTPLQERSLGLDINMDSRIIHE  
NIVEKERVQRITQETFGDYPQPQLEFAQYKLETKFKSGLNGSILAEREEPLRCLIKFSSP  
HLEALKSLAPAGIADAPLSPLTCTIPNKRMYFKIRDK

>sp|Q7L2Z9|CENPQ\_HUMAN Centromere protein Q OS=Homo sapiens GN=CENPQ PE=1 SV=1

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KHGKTAASKRKTWQPLSKSTRDHLQTMESVIMTILSNSIKEKEEIQYHLNFKKRLQ  
CETLKVPKPKMEDLTNVSSLLNMERARDKANEEGLALLQEEIDKMVETTELMTGNIQSLK  
NKIQILASEVEVEEEERVQMHIQINSSGVLSLPELSQKTLKAPTLQKEILALIPNQNALLK  
DLIDLHNSSQMKSMSTFIEEAYKKLDAS

>sp|Q96BT3|CENPT\_HUMAN Centromere protein T OS=Homo sapiens GN=CENPT PE=1 SV=2

MADHNPDSDSTPRTLLRRVLDTADPRTPRRPRSARAGARRALLETASPRKLSGQTRTIAR  
GRSHGARSVGRSAHIQASGHLEEQTPTLLKNILLTAPESSILMPESVVKVPAPQAVQP  
SRQESSCGSLELQLPELEPPTTLAPGLLAPGRRKQRLRLSVFQQGVDQGLSLSQEPQNA  
DASSLTRSLNLTATPLQPQSVQRPLARRPPARRAVDVGAFRLDLRDTSLAPPNIVLED  
TQPFSPQPMVGSPPVYHSLPCTPHTGAEDAEQAAGRKTQSSGPGLQKNSPGKPAQFLAGEA  
EEVNAFALGFLSTSSGVSGEDEVEPLHDGVEEAEKKMEEEGVSVSEMEATGAQGSPSRVEE

AEGHTEVTEAEGSQGTAEADGPGASSGDEDASGRAASPESASSTPESLQARRHHQFLEPA  
PAPGA AVL S SEPAEPLLV RHPPRPTTGPRPRQDPHKAGLSHYVKLFSFYAKMPMERKAL  
EMVEKCLDKYFQHLCDDLEVF AAHAGRKTVKPEDLELLMRRQGLVTDQVSLHVLVERHLP  
LEYRQLLIPCAYSGNSVFPAQ

>sp|Q9BYV8|CEP41\_HUMAN Centrosomal protein of 41 kDa OS=Homo sapiens GN=CEP41 PE=1 SV=1  
MSLRRHIGNPEYLMKRIPQNPYQH IKSRLDTGNSMTKYTEKLEEIKKNYRYKKDELFR  
LKVTTF AQLIIQVASLS DQTLEVTAE EIQRL EDNDSAASDPDAETTARTNGKGNPGEQSP  
SPEQFINNAGAGDSSRSTLQSVISGVGELDL DKG PVKKAEPHTKDKPYDPCFLLLDVRD  
RDSYQQCHIVGAYSYP IATLSRTMNPYSNDILEYKNAHGKII ILYDDDERLASQAATMC  
ERGFENLFMLSGGLKVLAQKFPEGLITGSLPASCQQALPPGSARKRSSPKGPPLPAENKW  
RFTPEDLKKIEYYLEEEQGPADHPSRLNQANSSGRESKVPGARSAQNLPGGGPASHSNPR  
SLSSGHLQGKPWK

>sp|Q53EZ4|CEP55\_HUMAN Centrosomal protein of 55 kDa OS=Homo sapiens GN=CEP55 PE=1 SV=3  
MSSRSTKDLIKSKWGSKPSNSKSETTLEKLGEIAHLKTSVDEITSGKGKLTDKERHRL  
EKIRVLEAEKEKNAYQLTEKDKEIQRLRDQLKARYSTTTLEQLEETTREGERREQVLKA  
LSEKDV LKQQLSAATSRIAELSKTNTLRLSQTVAPNCFNSSINNIHEMEIQLKDALEK  
NQQLWLVYDQQREVYVKGLLAKIFELEKKTETA AHS LPQQTKKPESEGYLQEEKQKCYNDL  
LASAKKDLEVERQTITQLSFELSEFRKYEETQKEVHNLNQLLYSQRRADVQHLEDDRHK  
TEKIQKLREENDIARGKLEEEKRSEELLSQVQFLYTSLLKQQEEQTRVALLEQQMQACT  
LDFENEKLDQRHVQHQLHVILKELRKARNQITQLES LKQLHEFAITEPLVTFQGETENRE  
KVAASPKSPTAALNESLVECPKCNIQYPATEHRDLLVHVEYCSK

>sp|Q5JTW2|CEP78\_HUMAN Centrosomal protein of 78 kDa OS=Homo sapiens GN=CEP78 PE=1 SV=1  
MIDSVKLRRD SAADFFSHYEYLCALQNSVPLPAVRACLREGVLDFNADRLRGVDWAPLLS  
TLKINKDLPLVSIKSFQPWLGDTGSDMNKFCRSRVP AIRYKDVTFQLCKALKGCLSISS  
VLKNLELNLILRERDLTILAKGLNKSASLVHLSLANCPIGDGGLIICQGIKSSITLKT  
VNFTGCNLTWQGADHMAKILKYQTMRRHEETWAESLRYPRLDCMAGLRRTILNCNTLI  
GDLGACAFADSLSEDLWLRALDLQQGLTNEGAKALLEALETNTTLVVLDIRKNPLIDHS  
MMKAVIKKVLQNGRS AKSEYQWITSPSVKEPSKTAKQKRRTIILGSGHKGKATIRIGLAT  
KKPVSSGRKHSLGKEYYAPAPLP PGVSGFLPWRTAERAKRHRGFPLIKTRDICNQLQQPG  
FPVTVTVESPSSEVEEVDSSSVHEVPEKTSIEQEALQEKLEECKLQKKEERVIRLKV  
DKRVSELEHENAQLRNINFSLSEALHAQSLTNMILDDEGLVLSIENSFQKFHAFDL LLDK  
AGLGQLATMAGIDQSD FQLLGHPQMTSTVSNPPKEEKKALEDEKPEPKQNALGQMNIQF  
QKITGDARIPLPLDSFPVPVSTPEGLGTSSNNLGPATEQRQESFEGFIARMCSPSPDAT  
SGTGSQRKEEELSRNSRSSEKKTESH

>sp|O95813|CER1\_HUMAN Cerberus OS=Homo sapiens GN=CER1 PE=1 SV=1  
MHLLLFQLLVLLPLGKTTRHQDGRQNQSSLPVLLPRNQRELPTGNHEEAEEKPDLFVAV  
PHLVATSPAGEGQRQREKMLSRFGRFWKKPEREMHPSRDSSEPFPPGTQSLIQPIDGMK  
MEKSPLREEAKKFWHHFMFRKTPASQGVILPIKSHEVHWETCRTVPFSQTITHEGCEKV  
VQNNLCFGKCGSVHFPGAAQHSHTSCSHCLPAKFTTMHLPLNCTELSSVIKVVMLEECQ  
CKVKTEHEDGHILHAGSQDSFIPGVSA

>sp|Q12798|CETN1\_HUMAN Centrin-1 OS=Homo sapiens GN=CETN1 PE=1 SV=1  
MASGFKKPSAAS TGQKRKVAPKPELTEDQKQEVREAFDLFDVDGSGTIDAKELKVAMRAL  
GFEPKKEEMKKMISEVDREGTGKISFNDFLAVMTQKMSEKDTKEEILKAFRLFDDDETGK  
ISFKNLKR VANELGENLTDEELQEMIDEADRDGDGEVNEEEFLRIMKKTSLY

>sp|P41208|CETN2\_HUMAN Centrin-2 OS=Homo sapiens GN=CETN2 PE=1 SV=1

MASNFKKANMASSSQKRMSPKPELTEEQKQEIREAFDLFDADGTGTIDVKELKVAMRAL  
GFEPKKEEIKKMISEIDKEGTGKMNFDFLTVMTQKMSEKDTKEEILKAFKLFDDDETGK  
ISFKNLKRVAKEGENLTDEELQEMIDEADRDGDGEVSEQEFLRIMKKTSLY

>sp|Q5JQF7|CF100\_HUMAN Putative uncharacterized protein encoded by LINC01556 OS=Homo sapiens GN=LINC01556 PE=4 SV=2

MLQVVQEGNPAPFIINTVKRGRDRERQRTPWAPHPLGFGRRYIYESPNHRGKDSSFLA  
QK

>sp|Q9Y6Z2|CF123\_HUMAN Uncharacterized protein encoded by LINC01558 OS=Homo sapiens GN=LINC01558 PE=4 SV=1

MGTAVGPHHSPAPHDSALPARLLTSDFPYGRSCQIEQVKYSVPDTGLFQHWEGSIPT

>sp|Q5T0Z8|CF132\_HUMAN Uncharacterized protein C6orf132 OS=Homo sapiens GN=C6orf132 PE=1 SV=4

MKKKQTVQGTFSKLFGKKHTTTPSTSLYATNPPWIFTQEAPEEGTGGFDGIYYGDNRFNT  
VSESGTATLKARPRVRPLLTFPLNAQENHGLAVPTSPVDDFADKEVTGTSSLVNGNLR  
LYSSVGDLRPGQYGQDLLIPPPPGPAGPPQDISEPPGGSPLSPSTAPPPPLLEP  
PPPPSMAPPPPPVLEALSPHTLSSPSIPTPDFIPPAPPLAFLAPPPPPVPAPAPPAPA  
SPHTVGTRLFPFGVTKWKSVALNGRQAEATRASPSPAEPKGSALGPNPEPHLTFPR  
SFKVPPPTPVRTSSIPVQEAQEAAPRKEEGATKKAPSRLPLPPSFHIRPASQVYPDRAPEP  
DCPGELKATAPASPRLGQSQSQADERAGTPPPAPPLPPPAPPLPPPAPPLPPAAPPLPCA  
QKAAHPAGFTKTPKSSSPALKPKPNPPSPENTASSAPVDWRDPSQMEKLRNELAAYLCG  
SRREDRFLSHRPGTVAPQSKEGKKGPRLPEKETLLSLPAKDTPPGVPEKSLGGSSLTET  
EAAPSLTLPSVDYIPQDSPTPSVRQIRNELEARLSSAAEKEAKPSIGSLPPKPRLEGGRI  
CENGADDDKLSKPVAKNLPPQSTTLLPTTSLQPKAMLGPAIPPKATPEPAIPPKATLWPA  
TPPKATLGPATPLKATSGPTTLPKATSGPAIASTATTLPPTTSQLMAEKDSGPAGQPEKP  
ASQEVSTPSQARGEKSPSEATRLPTQGARSSAAPPKTSPPGGGEVPCLYKPHCHQSSLSR  
EVAVVMPTLARGGAAGPGEPVEVKEPPGLPAKPPASAQPTDELLRHPVTGEVVERGSPMA  
LLLAARQRAQKGRSVGAALGRSSLPGSLRDHSHQAEASSDSIFHSQGTPNSFTVVPKLPK  
EAEKDSPLTTEIPNKWGPRLGRDAEGTELSRRHNWTKPEPQAPVAWERVAPSNLPQGHLPL  
PKSFSSPPSPSNKREEEEEEFNFEVIPPPEFSNDPEPPAPALQYLGRQSSPPRNNYSDL  
RQLPNAGPGAPPALGFSRFPAGARYAGAGGLERFSGGGRSLIKKRLYVGEPHRGPLPHG  
GTGRSLSSPNCFGPQPGPEMRRVNSAGRAPPGLHAPRLSLEGAARGAAEAKHKAPGSA  
DYGFAPAAGRSPYTTTRYGSPINTFTVRPGTRHPISYVCSGAHRKATS

>sp|Q9H8W2|CF155\_HUMAN Putative uncharacterized protein encoded by LINC00472 OS=Homo sapiens GN=LINC00472 PE=5 SV=2

MRPGSSPRAPECGAPALPRQLDRLPARPAPSRGRGAPSLRWPKEVGP RPQIPATCEPG  
KVCGASAGRRDAARPSRPRSSRVTFSTRQPGPQRGRWGLRGGPESVRGLPHLGLRISGT  
PLGIFSSWSL

>sp|Q6P656|CF161\_HUMAN Cilia- and flagella-associated protein 161 OS=Homo sapiens GN=CFAP161 PE=2 SV=1

MAQNVYGPVGRIGNWEDVYLEEELMKDFLEKRDGKLLIQRSRRLQNLLRPMQLSVTE  
DGYIHYGDKVMLNPDPTADVFLRGDLSLCMTDPDEIQSHLKDELEVPCGLSAVQAKT  
PIGRNTFIILSVHRDATGQVLRYGQDFCLGITGGFDNKMLYLSSDHRTLLKSSKRSWLQE  
VYLTDEVSHVNCWQAAPDPQLRLEYEGFPVPANAKILINHCHTNRGLAAHRHLFLSTYF

GKEAEVVAHTYLDHRVEKPRNHWMLVTGNPRDASSMLDLPKPPTEDTRAMEQAMGLDT

Q

>sp|Q96MT7|CFA44\_HUMAN Cilia- and flagella-associated protein 44 OS=Homo sapiens  
GN=CFAP44 PE=1 SV=1

MKEPDDQD TDGEKSVTSKSDGKKSLRSSKSES RSPVQEDNTFLEDDTDEFTKGE GSYLE  
EDSDEERLEGLSSSFQYGD LQSTTVPQQTPAPAVEEAE EEEVKKKISESFFYDYMELASMP  
FVTLDSNIPLDLLTVHSFGYDCRKRANQLLDDSI AIYIAGNQLIFLNLKTKEQIYLR S  
SSGEGIGVIGVHPKTYFTVAEKGSPDII IYEYPSLRPYRVL RDGTEKGYAYVDFNYSG  
NLLASVGSNPDYTLTIWNWKEEQPILRTKAFSQEVFKVTFNPDKEEQLTTS GSGHIKFWE  
MAFTFTGLKLQGS LGRFGKTITTDIEGYMELPDGKVLSGSEWGNMLLWEGGLIKVELCRG  
TSKSCHNGPINQIMLYEGEVITVGS DGYVRIWDFETIDTADVIDETGLLEIEP INELQVD  
KNVNLFSMIKMNETGNNFWLAQDANGAIWKLDLSFSNITQDPECLFSFHSGAIEAVAVSP  
LTYLMATTALDCSVRIYDFASKTPLAQMKFKQGGTALVWVPRMVNFTGAQIIVGFEDGVV  
RILELYDPKGLTIFAGRKKILDADIQLKQVFKPHTACVTALAYERDGEILATGSKDQTVF  
FFEVERDYKPIGYINTPGPVCQLMWSPMSHPESTLLI ICENGYILEAPLPTIKQEEDDHD  
VVSYEIKDMCIKCFHFSSVKSKILRLIEIEKRERQRELKEKIREERRNKLA AEMGEDGEK  
EFQEEEEEEKEEEEEEEPLPEIFIPSTPSPILCGFYSEPGKFWVSLGGYDSGFLYHCEFP  
PCDESSDFKEQKDEPIDVRYLADTEDNPIQTITFNINKVMMFCGMKNGAIRVYVLNQNDP  
SLTSLVDYWHFNMHDNNYGC IKS IANSFDDRFLVTAGADGNIFVFNIFSEFMLRKDMKAK  
VPSPRFGIETEPIDIEDPKAYS IENARRKREHDKLMKEVGEIKARKREQUIKALRSEFC  
NLLEMNEKLPKHMQFKRTVSLI

>sp|Q8IYW2|CFA46\_HUMAN Cilia- and flagella-associated protein 46 OS=Homo sapiens  
GN=CFAP46 PE=2 SV=3

MDLVITQELARAESQQDAASLKKAYELIKSANLGKSEFDPSESFSPDLFVLC AEQALKMR  
QPEVSEDCIQMYFKVKAPITQFLGRAHL CRAQMCAPKSAENLEEFENCVTEYMKAINFAK  
GEPRYYFLVYNASVLYWQMRPFLKPGYRHHLIPSLSQI INVLSQTEEDKEWRAELMLE  
LLECYLQAGRKEEAARFCSTAAPFIKSHVPQKYRQIFSVMRHELMDELQLKEEKNSIS  
LSVTFYINMLKAKAEQNDLPGDISVILRKAYRHLGHYNHQRFPSISEEKMLLLFELARFS  
LTLKCM EISSACLSDLKKMESKDPGKL IEMECLECESEALRLESKMKVYNRAAVEAQLDI  
IQRLDVALQRAVRLGDPRV IHVVCATQWNTCLPLLQHNLRHHLRKPLAGVADVLEKLD SL  
MTLLRCQVHMEMAQIEEDEDRLPATEHLRKAARLDSLGLYRDRIQMASTRRLCTTLYQ  
APERAEDKAIMAVEQAKKATPKDSVRKKRALLVNAGLALAPDAFQIVL DSENEAKVSTGK  
NRGRFTYLCAKAHHHTVSVDKAAGHLRRLGNENDKERIQIWAELAKVARKQGVWDVCRTA  
SRFCLLYDNVKKLRLRRGKKKRGRDGSVQDTWSQPEVVLQRQVCPDLLRKFAEVGF IH  
AEATVHLLRSEGVELNDRAIPPEDLSQHPAGYVPEPPEVNAEWITYRTWIESL SRCAMNN  
WLRSAEIGQEIQEAWIVQNAV VVYLNHNHHLILAGRQKELVDALYHLLSIVKATGHSGDP  
VMLVTLCNTLARGLIISWIPVQA AEKSRKFM RPNAFHSPLDAGATSEIKTAVEVCEFALN  
LTNGSAPEETVPTGTRQQLIATWVKAKQLLQQQIGPRLGTEEQGTNEDVSSVTRVLVALE  
MYSCNGLGLMDFTVPSLAQLVKMASECNWS DPLVELQTLTRLTHFAHAARDHETTMACAH  
RALEMGIKYLKKFGPEESRLVAEMLCTATAIQGRS IMENLKGKQLRLVAAKAFTESARF  
GGIAGSSALVMLAARHYWNAWLPLLSSAVYRK KAKGALKRLIGIINKTEARKQEKGKTLL  
LHQWPTADFQGGGTTEGYFLPGAEDDLALRAALYGLLFHSHADQDDWEGGLKVLDEAVQV  
LPRTAHRLLIFKHMVIVKAKLGQNF S MEIQKFKAES EDYLARMWHLALNSPSVSGELAC  
YNNAIQALQKPEMEWQKVEYLMEFGQWLHHRHFPLEDVVFHLRWAVEILLAMKPPGDVPE



PQPTPDGEYVAVEMPPRSPVSEAEAEVLSLEQLRSVRQLEALARVHILLALVLSPGAEGYE  
DCCLAAYAFFRHIWQVSLMTAGKSVLENRPLAATSSHLLLPKKEKENERSKEKEKERSKE  
KENERSKEKDKEKGKEEKVKEPKQSQPAPIKQLEDLPMSEEWASYSCPEEVL SVLKQD  
RSDSTVNPSSIQKPTYSLYFLDHLVKALQKMCLHELTVPVLQLGVLISDSVVGSKGLSDL  
YHLRLAHACSELKLREAAARHEEAVGQVCVSELEQASCRKEIALKKEKNKEPLLEESLPA  
LNEQTLFPVQPGEIKPLDAKDKILKMNGETGRDL DGTSPHLWMLKAEVLLEMNLYQPARL  
LLSEAYLAFQELDEPCA EAQCLLLLAQLANKEKNYGQAQKMTAQAQHLGGSEEFWYNSTL  
TLAEALLSMEHSGREATVCHIFQKLINAFKILKKERP NRLPLEFMITDLEARCLSLRVR  
VAQHS AVTEPTESLLLKEMDDGLEIERKFIDCGCKENCVDVKLERAKIKRLRAQNEKD  
EEQKTAYYLEAYGLAQGAVAE EEGRLHSIQGLYGLAQGAMAE EEGRLHSVQGGLSLQDLQ  
NVNTPLMRKLARLKLGLVEMALDMLQFIWEEAHGQQSEQGSLEKLLADYLQNTSDYTSVG  
LQWFTLKRTL AHGALAQLGSLQPLSVGCVEIRARLLGLAGRALHLLAMQADPVHPTCYWE  
AGPSVGAKLSGLKSLELEVEEEGATKSSRDPPASRAAPEEHCRRGEDLKRRMVLAQQYLA  
QASEVLLQCLQVALGSGLLDVA AAAASLEMVCEVGTLDPATTCQFLALSQSCSASETMRDV  
LLAATANTSSSQLAALLQLQHQLRCQDRTTTSLGARVEQRLAAVSKAWQNL CVTEQHFNL  
LNEMPPTFWILFLHLSGDRSRLYGAAYEKPKFITAAKGKVQAVGGSCKVMRLAISPTAFS  
HLLACAQQFRKQTQAQVYSEDMALNIGSEPEGLQVEEKERP VQRLSSVLGPLEELLQPLF  
PLLSLSKARVQTPAVVADSGSKGKDKERKTSTGQHSTVQPEVADKIVLVADRHLLELPL  
EGLSVFDEGTISSVSREFSLQMLWNRLHKEETEGGVKKEGRSRDPKKRSLAKKGRKGSIP  
RTIPDCIIVDSDNFKFVVDPYEEAQGPEMLTPV SITQDILERFQDTFTSRWAGHLGSKH  
FPSQAQWEQALGSCSGFFFYGMESFLSHILVERLVAMNLQECQVAVLLDLARSYQSLKRH  
MESVEHRRSVGRWEANWRNSASPSDEWRRGGEPRRGFSDLEGQAAAAPKL RAPSHHAQL  
GPVWAAAPSHRVVQAWTCLPSAAGAPALASALGSAPLPHPLPAPIPSSQLALPFLGLS  
PALGAASARDPPPATSRKAAAWTSSSACL CAPWGLRRGWSCVSSRGQDKGGLPLAALVLS  
CLDQKTIQTVSLFLI

>sp|Q96N23|CFA54\_HUMAN Cilia- and flagella-associated protein 54 OS=Homo sapiens  
GN=CFAP54 PE=2 SV=3

MAAQGSPSSSPSDDSTTSGSLPELPPTSTATSRPPESKGSRSLLQWTCPEDSLPLAV  
FYGPLDAKNPLLASCEKEIQELLGFMRKKKALATTEEEKHEFRRCATSLFNIWTKYAPR  
LPADYYNEKLLKVGDSLQCMKEYKLALLQCYGRYLQQFNTNF DENKVDVTQFKATFFPKG  
FKDKTAGLTFHALSGKNMCNYQLVCDSDENLKNKESV VQCLHILSSLRLIMQVALPQEHL  
CWIIFNGTIYIYITICRKL MVIGQSSKALEYLLWASMCMESLVPLLSLRYLTWRATLYTAV  
CQCCYDCHAGIHGEAFARRALAKIDELRQLELMSSSKSQEESRRYFREATMKMAVMIFKR  
GVFESRRKNKAVFRPKIRINLREVQTLSPRTVTERLLDEMFDSTASQFLAVLEALSDSN  
RRILQTGP IVTDEVEIHDVVSELF MAGKELLIMSNIGADGMLDFPKTSLELMIGRKDVI  
SVDAAVKFIKLAFTYEEWSLFESSAVHLIYFLQRQDDPESKKA EKDLTLLIAMEPLINVK  
RNKGLIFPLENYKEGQSTQIYLKKIAVHDTCLKTCGYSEDI FHLAATLYVCVTAPQDVQ  
PDKEIVVDTIMFLWQCKLGIQRLNISRNDYAKFTQKISTNKWIYLLWQINEVIHCYKME  
DIDIVVVAEVTLRLESEILESLSGSPGRKFKQSLDVPLREGTNKFP GAPKGITEILPILQKN  
PVEQLLFAYKLLDRAIGGINLNCMLTSLPNGSSVIDHCYAKRTHHIDGDTYKPLASNSFM  
MDLHLELIQAQHRIAVVLLDKLQVLQTPTVSKDISTKGPEKLKQSGSTDCFTELNIMNKI  
KKNTLSKAIYLMQKALLIFEKDATSTSSWELLMEAYSLIQRIEAEQNALYSYQKYLESSK  
RKKS RVPPPILLSRTHCSVTLPAPFTSEVKVSWYCILGCKAEGSYGKVR LNNHLPNS  
GEAIPADGKSVFEVKGLETNEKYVFAVAAYSNNGLVGGAIGETTKPILVYPPLSTITAR

MFLTQVAYQVGNELAKKVFSVPWDYFVASPLQDEQSVICLSNIITITQRRLHSDILAET  
SSILLYLFLRNIFVTSDIKIKEENLFCDNIKGNEIFPSQQIARLIECERVLVALELSNFL  
NDSSYALQAVTQCYGLLAPIIYHNIVLVPVVQILIKCIVVLQGLPSIVCSKKHTASFESI  
QHMIACCIFYITKILRSWREYDLAVMIINYGKKMLDITPGCKSLFDGSNEQEEMPEEDSS  
KKSLKTKKPQQILLPEKINEQLALLETHLLKLTQYVTSELSSGGEDPIFLYPVVLNWSVK  
GAVKEVMKFKQKPRFLEFFTQVMLKCMNEEFHLMVEVTPVHDFLKRRNESLLGLIKVK  
YKDSALNKKANKSLKFAAVMEIGRSAEMQQRIRSKKKETLRDFIFKNPAISEMVAHERN  
RRTSVRKAQRYLMDYLNPLILSYVKKRFHRLSLEMPWRAQMNLYLGAHFNLVLQKL  
WECTMKMFGTSHMMVSFRSCDPNMFSLYNSGTVLPTKRLTVENYKAMLDLFTAKKRRKAN  
LPSDAEEFSTFINSIMSDENMSKTQTVYSDSQSGSSAKEKDRGANLCVMDHFMKIFLYC  
RRAMVLAHRGGYTLLQNCCLALWNFTQELQILLKQAVDLDKTFPISQDGLCTSVLPFY  
LGAELLIDMLIQLTSSIKPIEDKGEFVSPSCYGNIKNDNGSSLTFEHPLDDVNVDL  
KWIHDFVLKSLEVLYQVEKWETLVSLAIQFNTVSHERYTEQVTPLLVYAQRQLLRQKF  
KGPDITQQPCARYEAIEYGEKITCRNFIGKQLKINSSTIEATSNCTDLLKMLISSEYSRAK  
ALVCPVDVTDTLRCFRETLEKSKYHNRSIRHSRKLSSLFLAQTQDVLQASNQRSLKVQA  
LHSLGSLLIFAEKKRAAFKCWCQALDDIFRKPDVLHTWKEFGPSLTNVTNSHSPPGFKDY  
SEEFLSRVGIWGCLQGAVISAKIAQFIKSLNVEKKTDCCLISALLFQGLLRITLPHPKAE  
RCYAQYEITQLLPGIELFSDRYRADICSVIASLYYIIRELHFVRQNLIVLPLLALYQYFV  
SGICQDITRNLEARILKIEVLIDLRFFSEAFYEISQIFYGKNMPCPIPAGYKATGKMKIF  
QSFDSGKLLTSKENIQAIDELRNKGLPAVLVTIGQPHLLNKFNFKAYFFLSVAATINCV  
PENKFKTVITNKS KPNLPNLEEIYSKDDGSSFYNLTCLKDEITLSMLKSMLMEADRLN  
FLLSEVEQKTLQCSAGELEIVVEARLQLAAVALQRHRAAYSAAIVFSTLTLLQDSKLFE  
KKVVQDDTENPVSPGTSVTENKDDSEFLDPISLNAREYFNHLWLCRLALVTAFAQIH  
GIGIVKEDDMTDCLSLINEVCMEAKSAGDTELQAEFLTQAVILGLQEHLKADIMTNLQD  
IIHLLEGNEFIS PQSRLTLARSLVLLDDLTKAEKFKESSSKTGKLNLLTRAHSILTEQM  
LAFGETIEFRSSNTKYANPLQPLKNIYLPHVMLLAKIKMRIGHTVAKQVYYKNKRKDPK  
WLPALHLFDVALKLCRTTAVEEHEVEAEILFQKGKIERQILMEEKSPSFQLESLEYEAIQL  
SLKNDQNSGLIRDSYLEMALLYFHLKKPKIKISGSPLTLKPLRRSSSVKETSANKFEMY  
SSLAWIAIRAAAQVSEAVLA INLLIGKKNTRMHKVNQVALPNIPEFAALDLLSSYTDYLL  
DNYQVLFQTSCTFLYQNDVCDSDGRKKTQTKVDITWILLRYYIHLQRINNLSKLLAS  
ATPVSGISLPDDTLLTSLYNSELILRQKEVHFFLKFLQLYSSSCIDEFPKELLCQLENP  
PLSEKDLRESSAKLYRDSSVQSILSFKPVSGSSCVDITPIEMVTQASNKELCFQWYIPPL  
DRPPKETEPMVLLLYAYNLKPLKISDVRHSTYNSTCVGSLWIPLNRVIAIHEKLSNLAQI  
AELSLPAAPEITSNENIYEVEVEEESVDNEMEDMI IQCCSEIASLFLNDKEPTPLSEVPF  
DISLPSIFNLERLFDLANGCILSGGSLFNWIVSIIP

>sp|Q5TON1|CFA70\_HUMAN Cilia- and flagella-associated protein 70 OS=Homo sapiens  
GN=CFAP70 PE=2 SV=3

MEQVPSAGRLVQITVTEGYDLKGFGDTPVTFIRAEFNQVVLGDSAKITVSPEGS AKYNF  
TSSFEFNPEGGITSDDLAKHPVFLTVTEVLPKEKKQKEEKTILGQAVVDLLPLLEGQSS  
FQTTVPLHPVQGSPLTPRSSAKQCSLEVKVLVAEPLTTAQISGGNLLKVTLEAAYSVP  
ESFIPTGPGQNYMVGLQVPSLGEKDYPILFKNGTLKLGGEREPVPRPKWPIANILAPGA  
NNIPDAFIVGGPYEEEEEGELNHPEDSEFRNQAECIKKRIIWDLESRCYLDPSAVVSFQKR  
IADCRLWPVEITRVPLVTIPKKGAGKTEKTDEEAQLSFHGVAYVNMVPLLYPGVKRIRGA  
FHVYPYLD SVVHEKTKCLLSLFRDIGHHLIHNKIGGINSLLSKQAVSKNLKEDKPVKEK

DIDGRPRPGDVQAPS IKSQSSDTPLGEPPLSHNPEGQQYVEAGTYIVLEIQDKALVPK  
RMPEELARRVKEMIPPRPLTRRTGGAQKAMSDYHIQIKNISRAILDEYYRMFGKQVAKL  
ESDMDSETLEEQKQQLSYELNCSGKYFAFKEQLKHAVVKIVRDKYLKTSFESQEELQTF  
ISELYVFLVDQMHVVALNQTMPDDVQGTVATIYTSSEQLQLFAFEAEVNENFEMAAAYYKE  
RLVREPQNLDHWLDYGAFCLLTEDNIKAQECFQKALSLNQSHIHSLLLCGVLAVLLENYE  
QAEIFFEDATCLEPTNVVAWTLGLYYEIQNNDIRMEMAFHEASKQLQARMLQAQVTKQK  
STGVEDTEERGKRESSLGPWGITNGSATAIKVEAPAGPGAALSILDKFLEESSKLQSDSQ  
EPILTTQTWDPSISQKPSNTFIKEIPTKKEASKQDSSALLHPGLHYGVSQTTTIFMETI  
HFLMKVKAVQYVHRVLAHELLCPGGPSCEYYLVLAQTHILKKNFAKAEYLLQAAQMDY  
LNPVWGLKGHLYFLSGNHSEAKACYERTISFVVDASEMHFIFLRLGLIYLEEKEYEKAK  
KTYMQACKRSPSCLTWLGLGIACYRLEELTEAEDALSEANALNNYNAEVWAYLALVCLKV  
GRQLEAEQAYKYM IKLKLKDEALLAEIHTLQETVGFGNPSF

>sp|POCG37|CFC1\_HUMAN Cryptic protein OS=Homo sapiens GN=CFC1 PE=1 SV=1

MTWRHHVRLLFTVSLALQIINLNSYQREKHNGGREEVTKVATQKHRQSPLNWTSSHFGE  
VTGSAEGWGPEEPLPYSRAFGEGASARPRCCRNNGTCVLGSFCVCPAHFTGRYCEHDQRR  
SECGALEHGAWTLRACHLCRCIFGALHCLPLQTPDRCDPKDFLASHAHGPSAGGAPSLLL  
LLPCALLHRLRPDAPAHPRSLVPSVLQRERRPCGRPGLGHRL

>sp|P13569|CFTR\_HUMAN Cystic fibrosis transmembrane conductance regulator OS=Homo sapiens  
GN=CFTR PE=1 SV=3

MQRSPLEKASVSVSKLFFSWTRPILRKGQRLELSDIYQIPSVDSADNLSEKLEREWDR  
LASKKNPKLINALRRCFFWRFMFYGIFLYLGEVTKAVQPLLLGRIIASYDPDNKEERSIA  
IYLGIGLCLLFIVRTLHLHPAIFGLHHIGMQMRIAMFSLIYKTKLSSRVLDKISIGQL  
VSLLSNLNKFDDEGLALAHFVWIAPLQVALLMGLIWELLQASAFGLGFLIVLALFQAGL  
GRMMMKYRDRAGKISERLVITSEMIENIQSVKAYCWEEAMEKMIENLRQTELKLTRKAA  
YVRYFNSSAFFSGFFVFLSVLPYALIKGIILRKIFTTISFCIVLRMAVTRQFPWAVQT  
WYDSLGAINKIQDFLQKQKYKTLEYNLTTTEVVMENVTAFWEEGFGEKAKQNNNNRK  
TSNGDDSLFFSNFSLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMVIMGELEPSEG  
KIKHSGRISFCSQFSWIMPGTIKENIFGVSYDEYRYSVIKACQLEEDISKFAEKDNIV  
LGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTR  
ILVTSKMEHLKKADKILILHEGSSYFYGTFSSELQNLQPDFSSKLMGCDSDQFSAERRNS  
ILTETLHRFSLEGDAPVSWTETKKQSFQKTGEFGEKRKNSILNPINSIRKFSIVQKTPLQ  
MNGIEEDSDEPLERRLSLVPDSEQGEAILPRISVISTGPTLQARRRQSVLNLMTHSVNGQ  
QNIHRKTTASTRKVSLAPQANLTEDIYSRRLSQETGLEISEEINEEDLKECFDDMESI  
PAVTTWNTYLYRITVHKSLIFVLIWCLVIFLAEVAASLVVLWLLGNTPLQDKGNSTHSRN  
NSYAVIITSTSSYYVFYIYVGADTLLAMGFFRGLPLVHTLITVSKILHHKMLHSLVQAP  
MSTLNTLKAGGILNRFSKDIAILDLLPLTIFDFIQLLLIVIGAIIVVAVLQPYIFVATV  
PVIVAFIMLRAYFLQTSQQLKQLESEGRSPIFTHLVTSKGLWTLRAFGRPYFETLFHK  
ALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIATFISILTTGEGEGRVGIILTLAMNIM  
STLQWAVNSSIDVDSLMSRVSRVFKFIDMPTEGKPTKSTKPYKNGQLSKVMIENSHVKK  
DDIWPSGGQMTVKDLTAKYTEGGNAILENISFSISPGQRVGLLGRGSGKSTLLSAFLRL  
LNTEGEIQIDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYEQWSDQEIWKVAD  
EVGLRSVIEQFPGLDFVLVDGGCVLSHGKQLMCLARSVLSKAKILLDEPSAHLDPVT  
YQIIRRTLKQAFADCTVILCEHRIEAMLECCQFLVIEENKVRQYDSIQKLLNERSLFRQA  
ISPSDRVKLFPHRNSSKCKSKPQIAALKEETEEVQDTRL

>sp|Q8WU49|CG033\_HUMAN Uncharacterized protein C7orf33 OS=Homo sapiens GN=C7orf33 PE=2 SV=1

MQVEVQSLSLEECPWRLPGPQCECEALLPSGARRRIDLRLSGRAVAVVHVHVRGGPGQFNL  
SYATGRHKKNPNHQNMNRGMEFIAPVSAPTKSGAPWHFLSQGPTDAQRAVRIRPGTRMGL  
SSDPVVGTLSSSYLDLLTSLYKPGRTVTSSYLNVRGHEVRKLQNSVEATRISRTDSS

>sp|Q96HJ9|CG055\_HUMAN UPF0562 protein C7orf55 OS=Homo sapiens GN=C7orf55 PE=1 SV=2

MAALGSPSHTFRGLLRELRYLSAATGRPYRDTAAYRYLVKAFRAHRTSEKLCRAQHELH  
FQAATYLCLLRSIRKHVALHQEFHGKGRSVEESAGLVGLKLPHQPGGKGWEP

>sp|Q8TBZ9|CG062\_HUMAN Uncharacterized protein C7orf62 OS=Homo sapiens GN=C7orf62 PE=2 SV=1

MSFSVHNQKGSKRPLPLELLFLQVPRSNYLFHQEEKQRLHLKKFLLDRMFLVAKIQANV  
ERKDVADYYEQMFQSVLKHHLGEAVTGILLIYPTSILHILESSSDTLKVLDDYIGHVKD  
ETVFFIQMKIIVISHNIPMRFLMQWHVSVIKVPVMYLDVDTQSQLKEVITDFTLTQTHK  
LSLYLCQTMKVGTKPGDNLHQVAPDLLPEQIIKYLCKSEEFMDPATFINMYNRPPIHIT  
LDSEVVWPAPSRF

>sp|Q9H7B7|CG069\_HUMAN Uncharacterized protein C7orf69 OS=Homo sapiens GN=C7orf69 PE=2 SV=3

MGFHFCIWIIFFLLPPPCKKCLSPPTMNLRPKSCGNVFWVLVLSGLLYKFCQTIKRA  
NWRPARAPRGWNEATERHQERRTQMETEMGGISTTYWHRLCTCTDRRAEKLVMGNNCWF  
HK

>sp|A6NKQ9|CGB1\_HUMAN Choriogonadotropin subunit beta variant 1 OS=Homo sapiens GN=CGB1 PE=2 SV=3

MSTFPVLAEDIPLRERHVKGKRVDPHFRAPKMEMFQRLLLLLLLSMGGTASKEPLRPCR  
PINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLPALPQVVCNYRDVRFESIRLP  
GCPRGVNPVVSVAVALSCQCALCRRSTTDCGGPKDHPLTCDDPRFQDSSSSKAPPSLPS  
PSRLPGP

>sp|Q9NR00|CH004\_HUMAN Protein C8orf4 OS=Homo sapiens GN=C8orf4 PE=1 SV=2

MKAKRSHQAVIMSTSLRVSPSIHGYPHFTASRKKAVGNIFENTDQESLERLFRNSGDKKA  
EERAKIIFAIDQDVEEKTRALMALKKRTKDKLFQFLKLRKYSIKVH

>sp|Q49A92|CH034\_HUMAN Uncharacterized protein C8orf34 OS=Homo sapiens GN=C8orf34 PE=2 SV=2

MASHPQTRIQAYLEKNKIGPLFEELMTKLITETPDQPIPFIDHLQSKQGNRGQLQRTLS  
GSAALWAESEKSESGTRRDFRSYDKPWQLNAKKPKKSKSDLAVSNISPPSPDSKSLPRS  
VEHPKWNWRTKPKSRDFDELNHILQESKKLGKALENLSRSIAISDELKETVTFNSSLLR  
PRVIGEWIGREENDADPLAAEMLQPPIPRSKNDQWESEDSGSSPAGSLKMEPKNGLKQQ  
QQQHKLLAAMLSQDSFESIHSPTPSVTEEDIDNEDDAMELLEDLNDLRMEGVTTLVPSG  
SKFNQGRPTYPAEPQAKVTNLICSRCARLQGDNLEERTEESLPILHSPDEKIPDSFDSL  
GTEEALMEEGDEFKASKLTGPGEASSGVGHSKKNYMEEDSLKQLQVHVQPWILPSDTE  
SEGVEAEQEKRSADLLLCVPCSSCPTLVYSGL

>sp|Q6P047|CH074\_HUMAN Uncharacterized protein C8orf74 OS=Homo sapiens GN=C8orf74 PE=1 SV=3

MALLTPQGVKEVFQLQRPQGRERLRLLNWEEFDEQRDSRRSILLDTLYESIIFAVGKGF  
PWVEVAQVVKFTEELLRETGCSITEAVTILGNKLRDYRGHFNTTHLLALCDYFHHTFIR  
HYKLYQYVLGQDQVVDLTVAHLEVCMPPHPLPLAEGMDRDLWIHEQQVATLTEAEAQKRA

DVLLLKEALRLERENSLQKAFAAAAAQPGQVLERQELES LICQAVHTQMELLQELLQRQ  
IQNTFAILDLKLQKKTLLNLNAPTPIPPPIITSHAGQEEALKPQRASKGKKAKARK

>sp|E5RJ46|CH087\_HUMAN Uncharacterized protein C8orf87 OS=Homo sapiens GN=C8orf87 PE=4  
SV=1

MRTPKRTRSPKTKVSLRGETLTLQLTTVSLDTRHMKRCDERHGRPLPHSQESQHGHSATS  
KKAVRGTDATPLERISAARGWALPMEATVSVFRAHQWQWN

>sp|Q8N4J0|CARME\_HUMAN Carnosine N-methyltransferase OS=Homo sapiens GN=CARNMT1 PE=1 SV=1

MQRRRRPPPTSRLPEGCGGGGGSEEEVQFSAGRWGSAAAVSAAAAAATRSTEEEEER  
LEREHFWKIINAFRYYGTSMHERVNRTERQFRSLPANQQKLLPQFLHLDKIRKCIDHNQ  
EILLTIVNDCIHFENKEYGEDGNGKIMPASTFDMDKLKSTLKQFVRDWSETGKAERDAC  
YQPIIKEILKNFPERWDPSKVNILVPGAGLGRLAWEIAMLGYACQGNEWSFFMLFSSNF  
VLNRCSEINKYKLYPWIHQFSNNRRSADQIRPIFFPDVDPHSLPPGSNFSMTAGDFQEYI  
SECNTWDCIATCFFIDTAHNVIDYIDTIWKILKPGGIWINLGPLYHFENLANELSIELS  
YEDIKNVVLQYGFKEVEKESVLSTYTVNDLSMMKYYYECVLFVVRKPQ

>sp|Q6TDU7|CASC1\_HUMAN Protein CASC1 OS=Homo sapiens GN=CASC1 PE=2 SV=2

MSGSKKKKVTKAERLKLQEEEEERLKEEEEARLKYKEEMERLEIQRIEKEKWHRLEAK  
DLERRNEELEELYLLERCFPEAEKQKQETKLLSQWKHYIQCDGSPDPSVAQEMNTFISLW  
KEKTNETFEEVIEKSKVVLNLEKLFILLETPPCDLQDKNI IQYQESILQLQELLHLKF  
GVATEILLKQASTLADLDSGNMEKVIKDENVTLVYVWANLKKNPRHRSVRFSETQIGFEIP  
RILATSDIAVRLHHTHYDHVSALHPVSTPSKEYTSAVTELVKDDVKNVEKAISKEVEEES  
KQQERGSHLIQEEIEKVEEQGDIEVKMSSAEESEA IKCEREMKVLSETVSAAQLLVE  
NSSEKPDFFEDNVVDLCQFTTLGGVYHLDILELPPQCKPVKGMWIVEILKEGLQKYTYPP  
ETTEEFETENAFPIIEVTLVHENVIFFEDPVVVRWDAEGKHWRDGTISNVSYKPKERLV  
TFSLDTFGPVTLIQDAHINMPYQSWELRPLDVNKLVTVTTFTEIQIQIKENLCMLSSI  
KLKDKKHISILEGTWMTPIPFIIALKEAGLNIFPTRHSHFYVI INNKVPLVEVKAYRQMA  
LLSSAFAGWSKWNLLCNSTKVVFKVREHLTEACTENPNWALLMFGSDRAQRLKIKEESE  
AFSEALKEETEFHSTLYHMKDFASEEAMEKVRSSNCQFVNSVCHMLLSTRLLSYS

>sp|Q14511|CASL\_HUMAN Enhancer of filamentation 1 OS=Homo sapiens GN=NEDD9 PE=1 SV=1

MKYKNLMARALYDNVPECAELAFRKGDILTVIEQNTGGLEGWWLCSLHGRQGIVPGNRV  
KLLIGPMQETASSHEQPASGLMQQTFGQKLYQVPNPQAAPRDTIYQVPPSYQNQGIYQV  
PTGHGTQEQEYQVPPSVQRSIGGTSGPHVGKKVITPVRTGHGYVYEYPSRYQKDVYDIP  
PSHTTQGVYDIPSSAKGPVFSVPVGEIKPQGVYDIPPTKGVYAIPPSACRDEAGLREKD  
YDFPPPMRQAGRPDLRPEGVYDIPPTCTKPAGKDLHVKNCDIPGAAEPVARRHQSLSPN  
HPPQQLGQSVGSQNDAYDVPRGVQFLEPPAETSEKANPQERDGVYDVPLHNPPDAKGSRD  
LVDGINRLSFSSTGSTRSNMSTSSSKESLSASPAQDKRLFLDPDTAIERLQRLQQAL  
EMGVSSLMALVTTDWRCYGYMERHINEIRTAVDKVELFLKEYLHFVKGAVANAACLPOLI  
LHNKMKRELQRVEDSHQILSQTSHDLNECSWSLNLAINKPQNKCDLDRFVMAKTVPD  
DAKQLTTTINTNAEALFRPGPSLHLKNGPESIMNSTEYPHGGSQGQLLHPGDHKAQAHN  
KALPPGLSKEQAPDCSSSDGERSWMDYDYVHLQGKEEFERQQKELLEKENIMKQNMQ  
LEHHQLSQFQLLEQEI TKPVENDISKWKPSQSLPTTNSGVSAQDRQLLCFYDQCETHFI  
SLLNAIDALFSCVSSAQPPRIFVAHSKFVILSAHKL VFIGDTLTRQVTAQDIRNKVMNSS  
NQLCEQLKTIVMATKMAALHYPSTTALQEMVHVQVTDLSRNAQLFKRSLLEMATF

>sp|P51878|CASP5\_HUMAN Caspase-5 OS=Homo sapiens GN=CASP5 PE=1 SV=3

MAEDSGKKKRRKNFEAMFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKSTSVK

KDNHKKKTVKMLEYLGKDV LHGVFN YLAKHDV LTLKEEEKKKYYDTKIEDKALILVDSL R  
KNRVAHQMFTQTLLNMDQKITSVKPL LQIEAGPPESAESTN ILKLCPREEF LRLCKKNHD  
EIYPIKKREDRRRLAL IICNTKFDHLP ARNGAHYDIVGMKRL LQGLGYTVVDEKNLTARD  
MESVLRAFAARPEHKSSDSTFLV LMSHGILEGICGTAHKKKPDVLLYDTIFQIFNNRNC  
LSLKDKPKVIIVQACRGEKHGELWVRDSPASLALISSQSENLEADSVCKIHEEKDFIAF  
CSSTPHNVSWRDRTRGSIFITELITCFQKYSCCCHLMEIFRKVQKSFEVPQAKAQMP TIE  
RATLTRDFYLFPGN

>sp|P55211|CASP9\_HUMAN Caspase-9 OS=Homo sapiens GN=CASP9 PE=1 SV=3

MDEADRRLLRRCLRLVEELQVDQLWDALLSRELFRPHMIEDIQRAGSGSRRDQARQLII  
DLETRGSQALPLFISCLEDTGQDMLASFLRTNRQA AKLSKPTLENLTPVVL RPEIRKPEV  
LRPETPRPVDIGSGGFGDVGAESLRGNADLAYILSMEPCGHCL IINN VNCRESGLRTR  
TGSNIDCEKLRRRFFSLHFMVEVKGDLTAKKMVLALLELAQQDHGALDCCVVVILSHGCQ  
ASHLQFPGAVYGTGCPVSVEKIVNIFNGTSCPSLGGKPKLFFI QACGGEQKDHGFEVAS  
TSPEDESPGSNPEPDATPFQEGLRTFDQLDAISSLP TSDIFVSYSTFPGFVSWRDPKSG  
SWYVETLDDIFEQWAHSEDLQSLLLRVANAVSVKGIYKQMPGCFN FLRKKLFFKTS

>sp|Q6UXS9|CASPC\_HUMAN Inactive caspase-12 OS=Homo sapiens GN=CASP12 PE=2 SV=2

MADEKPSNGVLVHMKLLIKTFLDGI FDDL MENNV LNTDEIHLIGKCLKFVVSNAENLVD  
DITETAQTAGKIFREHLWNSKKQLSSDISSDGEREANMPGLNIRNKEFN YLHNRNGSELD  
LLGMRDLLENLGYSVVIKENLTAQEMETALRQFAAHPEHQSSDSTFLVFMSHSILNGICG  
TKHWDQEPDVLHDDTIFEIFNNRNCQSLKDKPKVIIMQACRGNGAGIVWFTTDSGKAGAD  
THGRLLQGNI CNDAVTKAHVEKDFIAFKSSTPHNVSWRHETNGSVFISQIIYYFREYSWS  
HHLEEIFQKVQHSFETPNILTQLPTIERLSMTRYFYLFPGN

>sp|Q9NWW7|CB042\_HUMAN Uncharacterized protein C2orf42 OS=Homo sapiens GN=C2orf42 PE=1 SV=1

MEPNSLRTKVPAFLSDLGKATLRGIRKCPRCGT YNGTRGLSCKNKTCGTIFRYGARKQPS  
VEAVKIIITGSDLQVYSVRQRDRGPDYRCFVELGVSETTIQTVDGTIIITQLSSGRCYVPSC  
LKAATQGVVENQCQH IKLAVNCQAEATPLTLKSSVLNAMQASPETKQTIWQLATEPTGPL  
VQRITKNILVVKCKASQKHS LGYLHTSFVQKVSGKSLPERRFFCSCQTLKSHKSNASKDE  
TAQRCIHFFACICAFASDETLAQEFSDFLNFDSSGLKEIIVPQLGCHSESTVSACESTAS  
KSKRRRKDEVSGAQMNSSLLPQDAVSSNLRKSGLKPKPVVASSLKRQACGQLLDEAQVTL S  
FQDWLASVTERIHQTMHYQFDGKPEPLVFHIPQSFFDALQQRISIGSAKKRLPNSTTAFV  
RKDALPLGTFSKYTWHITNILVKQILDTPEMPLEITRSFIQNRDGTIELFKCPKVEVES  
IAETYGRIEKQPVLRLPELKTFLKVGNTSPDQKEPTPFII EWIPDILPQSKIGELRIKFE  
YGHHRNGHVAEYQDQRPPLDQPLELAPLTITFP

>sp|Q96LR7|CB050\_HUMAN Uncharacterized protein C2orf50 OS=Homo sapiens GN=C2orf50 PE=1 SV=1

MGSHPTPGLQRTTSAGYRLPPTRPPASVSPAARGGPMASRGLAGGCQAPQALKAQRVAQG  
AACDGVQQDQLWRELLEAERRGQQRWIQNWSFLKDYPMGNKKEPEKLPHVPLFSDTVP  
SSTNQVVGSRDLTPLGQTLIRMDFFFT EGARKKKLEDQM QPI

>sp|Q6UXQ4|CB066\_HUMAN Uncharacterized protein C2orf66 OS=Homo sapiens GN=C2orf66 PE=3 SV=1

MIIDSSRIPSFTQLHSTMTRAPLLLLCVALVLLGHVNGATVRNEDKWKPLNNPRNRDLFF  
RRLQAYFKGRGLDLGTFPNPFPTNENPRPLSFQSELTASASADYEEQKNSFHNYLKG

>sp|Q3KRA6|CB076\_HUMAN UPF0538 protein C2orf76 OS=Homo sapiens GN=C2orf76 PE=1 SV=3

MAPGEVTITVRLIRSF EHRNFKPVVYHGVNLDQTVKEFIVFLKQDIPLRTNLPPPF RNYK  
YDALKIIHQAHKSKTNELVLSLEDDERLLLKEDSTLKAAGIASETEIAFFCEEDYKNYKA  
NPISSW

>sp|Q0P641|CB080\_HUMAN Uncharacterized protein C2orf80 OS=Homo sapiens GN=C2orf80 PE=2  
SV=2

MERRLIKEMKKLLGDYIGIRLRENEFDPKGRRQLTFLDDMAHYDLAISVALQWLDPSED  
LTWLEWEEKIPLHGRPIYPNRREREAMILSSYAGILMNSIPIEEVFKEYGADSSADSGT  
IKVPRVSSLCLSLHPFAMLTAPKAAAYARKQSVKSRKVTTNKNATSISAKEANATEWKSS  
QRFSDTQPKHKVT

>sp|A6NN90|CB081\_HUMAN Uncharacterized protein C2orf81 OS=Homo sapiens GN=C2orf81 PE=3  
SV=2

MAHEGSRQVRDRGVTRSKAEKVRPPTVPVPQVDIVPGRLSEAEMALTALEEGEDVVGDI  
ADLLARVMDSAFKVYLTQQCIPFTISQAREAMLQITEWRFLARDEGESAVAEDPTWGEDE  
EPSACTTDSWAQGSVPVLHASTSEGLNFQGEDPGGVDRIPGRSWMGRGSQEQMESWEP  
SPQLRVTSAPPPTSELFQEAGPGPV EADGQSRGLSSAGLSASFQLSVEEAPADDADP  
SLDPYLVAS PQASTGRGHPLGFHLSLEDLYCCMPQLDAAGDRLELRSEGVPCIASGVLVS  
YPSVGGATRPSASCQQQRAGHSDVRLSAHHHRMRKAAVKRLDPARLPCHWVRPLAEVLV  
PDSQTRPLEAYRGRQRGEKTKARAEPQALGPGRVSPAAFFPLRPGIPFRDLDSGPALLF  
PTLNLGLSSPSLESKLPLNSRIRFLTTHPVLDPVARSRSPKLWPSVRWPSGWEGKAELL  
GELWAGRTRVPPQGLELADREGQDPGRWPRTTPPVLEATSQVMWKPVLLPEALKLAPGVS  
MWNRSQTQVLLSSGVPEQEDKEGSTFPPVEQHPIQTGAPKPR

>sp|Q6UX34|CB082\_HUMAN Uncharacterized protein C2orf82 OS=Homo sapiens GN=C2orf82 PE=2  
SV=1

MASCLALRMALLLVSGVLAPAVLTDDVPQEPVPTLWNEPAELPSGEGPVESTSPGREPVD  
TGPPAPTVPAGPEDSTAQERLDQGGGSLGPGATAAIVIAALLATCVVLALVVVALRKFS  
A

>sp|Q53S99|CB083\_HUMAN Folate transporter-like protein C2orf83 OS=Homo sapiens GN=C2orf83  
PE=2 SV=1

MEDYALTFGINPFIALMIQPIVTMTVVDNQGLGPVDIQHKAKPSPKASQMLPPDLGPPS  
FQNLLSPSEKLEPWDPGMRKLTQTCGLTFIHPAGHGLCHPTAEASAETLSSTALNRPSV  
REGACNEKSTENKKPQDSVLWSHSRWFQGN

>sp|P23435|CBLN1\_HUMAN Cerebellin-1 OS=Homo sapiens GN=CBLN1 PE=1 SV=1

MLGVLELLLLGAAWLAGPARGQNETEPIVLEGKCLVVCDSNPTSDPTGTALGISVRSGSA  
KVAFSAIRSTNHEPSEMSNRTMIYFDQVLVNIGNNFDSESTFIAPRKG IYSFNHVVK  
VYNRQTIQVSLMLNGWPVISAFAGDQDVTREASNGVLIQMEKGDRA YLKLERNLMGGW  
KYSTFSGFLVFPL

>sp|Q6UW01|CBLN3\_HUMAN Cerebellin-3 OS=Homo sapiens GN=CBLN3 PE=1 SV=1

MLGAKPHWLPGPLHSPGLPLVLVLLALGAGWAQEGSEPVLEGECLVCEPGRAAAGGPG  
GAALGEAPPGRVAFAAVRSHHHEPAGETGNGTSGAIYFDQVLVNEGGGFDRASGSFVAPV  
RGVYSFRFHVVKVYNRQTVQVSLMLNTWPVISAFANDPDVTREATSSVLLPLDPGDRVS  
LRLRRGNLLGGWKYSSFSGFLIFPL

>sp|P15086|CBPB1\_HUMAN Carboxypeptidase B OS=Homo sapiens GN=CPB1 PE=1 SV=4

MLALLVLVTVALASAHHGGEHFEGEKVFRVNVEDENHINIIRELASTTQIDFWKPDSVTQ  
IKPHSTVDFRVKAEDTVTVENVLQNELQYKVLISNLRNVVEAQFDSRVRATGHSYEKYN

KWETIEAWTQQVATENPALISRSVIGTTFEGRAIYLLKVGKAGQNKPAIFMDCGFHAREW  
ISPAFCQWFVREAVRTYGREIQVTELLDKLDFYVLPVLNIDGYIYTWTKSFRWRKTRSTH  
TGSSCIGTDPNRNFDAGWCEIGASRNPCDETYCGPAAESEKETKALADFIRNKLSSIKAY  
LTIHSYSQMMIYPYSYAYKLGENNAELNALAKATVKELASLHGTYTYGPGATTIYPAAG  
GSDDWAYDQGIRYSFTFELRDTGRYGFLLPESQIRATCEETFLAIKYVASYVLEHLY

>sp|Q8NDL9|CBPC5\_HUMAN Cytosolic carboxypeptidase-like protein 5 OS=Homo sapiens GN=AGBL5  
PE=2 SV=1

MELRCGGLLFSSRFDGSLAHVEKVESLSSDGEGVGGGASALTSGIASSPDYEFNVWTRP  
DCAETEFENGNRSWFYFSVRGGMPGKLIKINIMNMNKQSKLYSQGMAPFVRTLPTRPRWE  
RIRDRPTFEMTETQFVLSFVHRFVEGRGATTFFAFCYPFSYSDCQELLNQLDQRFPENHP  
THSSPLDTIYYHRELLCYSLDGLRVDLLTITSCHGLREDREPRLEQLFPDTSTPRPFRFA  
GKRIFFLSSRVHPGETPSSFVFNGLDFILRPDDPRAQTLRRLFVFKLIPMLNPDGVVRG  
HYRTDSRGVNLNRQYLKPDVLAHPAIYGAKAVLLYHHVHSRLNSQSSSEHQPSCLPPDA  
PVSDLEKANNLQNEAQCCHSADRHNAAWKQTEPAEQKLSNVWIMPQQSAGLEESAPDTI  
PPKESGVAYYVDLHGHASKRGCFMYGNSFSDESTQVENMLYPKLISLNSAHFDFQGCNFS  
EKNMYARDRRDGQSKEGSGRVAIYKASGIIHSYTLNNTGRSVNSIPAACHDNGRASP  
PPPPAFPSRYTVLFEQVGRAMAIAALDMAECNPWPRIVLEHSSLTNLRAWMLKHVRNS  
RGLSSTLVNGVNNKRLRTPPKSHNGLPVSCSENTLSRARSFSTGTSAGGSSSSQQNSPQ  
MKNSPSPFFHGSRPAGLPGLGSSTQKVTHRVLPVREPRSQDRRRQQQLNHRPAGSLAP  
SPATSSGPASSHKLGSCLLPDSFNIPGSSCSLLSSGDKPEAVMVIKGLLGTGARMPCI  
KTRLQARPLGRGSPPTRRGMKGSSGPTSPTRTRESSELELGSCSATPGLPQARPPRPR  
SAPAFSPISCSLSDSPSWNCYSRGLGQPEVCFVPKSPPLTVSPRV

>sp|Q66K79|CBPZ\_HUMAN Carboxypeptidase Z OS=Homo sapiens GN=CPZ PE=1 SV=2

MPPPLPLLLLTVLVAAARPGCEFERNPAGECHRPAAADSATCVDLQLRTCSDAAYNHTT  
FPNLLQHRSWEVVEASSEYILLSVLHQLLEGQCNPDLRLLGCAVLAPRCEGGWVRRPCRH  
ICEGLREVCQPAFDAIDMAWPYFLDCHRYFTREDEGCYDPLEKLRGGLEADEALPSGLPP  
TFIRFSHHSYAQMVRVLRRTASRCAHVARTYSIGRSFDGRELLVIEFSSRPGQHELMEPE  
VKLIGNIHGNEVAGREMLIYLAQYLCSEYLLGNPRIQRLNNTTRIHLPSMNPDGYEVAA  
AEGAGYNGWTSGRQNAQNLDLNRNFPDLTSEYYRLAETRGARSDHIPQHYWWGKVAPE  
TKAIMKWMQTIPFVLSASLHGGDLVVSYPDFSKHPQEEKMFSPTPEKMFKLLSRAYAD  
VHPMMMDRSENRCGNFLKRGSIINGADWYSFTGGMSDFNYLHTNCFEITVELGCVKFPP  
EEALYILWQHKNESLLNFVETVHRGIKGVVTDKFGKPVKNARISVKGIRHDITAPDGDY  
WRLLPPGIHIVIAQAPGYAKVIKKV IIPARMKRAGRVDFILQPLGMGPKNFHGLRRTGP  
HDPLGGASSLGEATEPDPLRARRQPSADGSKPWWWYFTSLSTHRPRWLLKY

>sp|Q9UK00|CC018\_HUMAN Uncharacterized protein C3orf18 OS=Homo sapiens GN=C3orf18 PE=2  
SV=2

MNSRTASARGWFSSRPPTSESLEPATDGPASETTTSLPEATTFNDRIPDAAGGTAGVG  
TMLLSFGIITVIGLAVALVLYIRKKRLEKLRHQLMPMYNFDPTEEQDELEQELLEHGRD  
AASVQAATSVQAMQGKTTLPSQGPLQRPSRLVFTDVANAIHA

>sp|Q8WV48|CC107\_HUMAN Coiled-coil domain-containing protein 107 OS=Homo sapiens  
GN=CCDC107 PE=2 SV=2

MAGAVSLLGVVGLLLVSALSGVLGDRANPDLRAHPGNAAHPGSGATEPRRRPPLKDQRER  
TRAGSLPLGALYTAAVAFLVYKCLQGKDETAVLHEEASKQQPLQSEQQLAQLTQQLAQT  
EQHLNNLMAQLDPLFERVTTLAGAQQELLMKLWTIHELLQDSKPKDKMEASEPEGESGG



ESAGGGDKVSETGTFLISPHTASRPLPEDFCLKEDEEEIGDSQAWEEPTNWSTETWNLA  
TSWEVGRGLRRRCSQAVAKGPSHSLGWEGGTTAEGRLKQSLFS

>sp|Q5T0U0|CC122\_HUMAN Coiled-coil domain-containing protein 122 OS=Homo sapiens  
GN=CCDC122 PE=2 SV=1

MSDNKERKSQGFPKEDNQDTSSLADAVEKVAKQQSQASEIEKNKKVLFNLKNELHELEK  
EIAAISAETKETERQIYQQDSAIENTKLHCDSLETQIKSLHSENVKLKFDIETAQEDFEE  
HMIKYNAYYAKIKAHKNLGEVESKWSFMTELHEKRDFVKKLKTMKHEELMQDLQNPGGNR  
ITQVQEDITNLKDKIITVKESIEKTCFLEEEKKTHEKLRKEIEVQHKRYDAILKRLHCQ  
VNKLQSNRRQWQWNIQQLEKTAELRKICGMQE

>sp|Q9H6E4|CC134\_HUMAN Coiled-coil domain-containing protein 134 OS=Homo sapiens  
GN=CCDC134 PE=1 SV=1

MDLLQFLAFLFVLLLSGMGATGLRTSLDPSLEIYKKMFEVKRREQLLALKNLAQLNDIH  
QQYKILDVMLKGLFKVLEDSRTVLTAADVLPDGPFPQDEKLKDAFSHVVENTAFFGDVVL  
RFPRIVHYFYFDHNSNWNLLIRWGISFCNQTVFNQGPSPILSLMAQELGISEKDSNFQN  
PFKIDRTEFIPSTDPPFKALREEEKRRKKEEKKEIRKGPRISSRSQSEL

>sp|Q17RM4|CC142\_HUMAN Coiled-coil domain-containing protein 142 OS=Homo sapiens  
GN=CCDC142 PE=2 SV=1

MAQASRSGSLPPLVIVPPLRAQPGGTGEEQWERSRTGGLRWEVHCWPSGTSGGTPWWPTP  
ADVSEDEYADAAAWRRGPAGGGPIPPALQRLRAVLLRLHREREQLLQARDCAHYLQSAVR  
LMKTLSPGSPSGGPSPLPQWCRDLQLHPSQGAVLRIGPGETLEPLLLARPIGLAAQCLEA  
VIEMQLRALGREPASPGLSSQLAELLFALPAYHTLQRKALSHVPGAARPFPTSRVLRLLT  
GERGCQVASRLDEALQGSALRDQLRRRCQEEGDLPLGLLVGGVAGSASCGLGLGGAGA  
LWSQYWTLWAAACQSLDLNLGPWRDPRATAQQLSQALGQASLPQECEKELASLCHRLH  
QSLIWSWDQGFQALGSALGGQSSLPTSSGTAEELLQQLFPPLLDALREPRLRRIFCQPAD  
PAPVALGLCTLQTLLWFLGRAQQYLAAWDPASFLLL IQKDLPLLHEAEALYSLASEES  
LALVEQQLGLEIQKLTAQIQLPEESLSVFSQECHKQAMQGFKLYMPRGYWRRLRCPE  
PPSAPSEYAGLVVRTVLEPVLQGLQGLPPQAQAPALGQALTAIVGAWLDHILTHGIRFSL  
QGALQLKQDFGVVRELEEEQWSLSPDLRQTLLMLSIFQQLDGALLCLLQQPLPKSQVHR  
RPPCCACQEVQTTKLPSCLNSLESLEPPLQPGTSPAQTGQLQSTLGGRGPSPEGYLVG  
NQQAWLALRQHRPRWHLPPFSCLGTSPES

>sp|A4D256|CC14C\_HUMAN Dual specificity protein phosphatase CDC14C OS=Homo sapiens  
GN=CDC14C PE=2 SV=2

MNEVSSECGKKCEPLGCSSTNGDLQGEAGAVVSIFLRMPRIKSNEGYGYSNRNWRKENT  
MHSLDRNIVDGGQALGQWKRKSKGRSSWAAAPHCSPRCSLTSQGKKMRSSTLQDPRRRD  
PQDDVYVDITDRLRFAILYSRPKSASNVHYFSIDNELEYENFSEDFGPLNLAMVYRYCCK  
INKKLKSITMLRKKIVHFTGSDQRKQANAFLVGCYMYIYLGRTPAAAYRILIFGDTPIYI  
PFRDAAYGSCNFYITLLDCFHAVKKAMQYGFNFNSFNLDEYEHYKAENGLNWIIPDR  
FIAFCGPHSRARLESQYHQHSPETIYIYFKNHNVTTIIRLNKRMYDAKRFTDAGFDHDL  
FFADGSTPTDAIVKRFLDICENAEGAIAVHCKAGLGRTGTLIACYIMKHYRMTAAETIAW  
VRICRPLVIGPQQQLVMKQTSWLQEGDYFRQLKGQENGQHRAAFSKLLSGVDDISIN  
GVENQDQEPKPYSDDEINGVTQGDRSRALKRRRQSKTNDILLPSPLAVLTFTLCSVVI  
WWIVCDYILPILLF

>sp|Q4G0S7|CC152\_HUMAN Coiled-coil domain-containing protein 152 OS=Homo sapiens  
GN=CCDC152 PE=2 SV=3

MDQSSEGCMMKISSVNLDKLINDFSQIEKKMVETNGKNNILDIQLEKSNCLLKVMQAKEV  
SIEECATLHNI IKGLQQTIEYQQNLKGNEQLKISADLIEKELKSHEQEYKNNIAKLVS  
EMKIKEEGYKKEISKLYQDMQRKVELNEEKHKELIEKKEMEISELNAKLRSQEKEKQNEI  
IKLQLEFDAKLARVQTKSKSYQDSTVLPQSIYRRKLQHFQEEKNKEIAILRNTIRDLEQR  
LSVGKDSHLKRRRF

>sp|Q8NDH2|CC168\_HUMAN Coiled-coil domain-containing protein 168 OS=Homo sapiens  
GN=CCDC168 PE=2 SV=2

MAQIQKDKANISEKSVMHPEYIAVKAESPLSHILKTKELQVNISQQGEKAQEGEVEIVV  
LLSKTCPFVTSSAFLELDSIKEEEGEPRIITRSFMPHLEIQESLPSRQTAPTPTESLVKK  
EKQLLPQKEDRVQTVSMHGLMHPNGAVFKAKTSAPPQVFSITEHSPLSKRKEPQWGMKER  
AGQKQDRTGRPHVILTKTHPFMPSLSHHRFSPSQPKLPISSGAGKSRLANSNEGISSHKV  
ILKANQQMPYKEAKDRVKIEGREGRI LPKRIHLRAEALPLALLCNGKNYSLHIEEQEGEV  
QESKKEPGVVPRKSASFPPPPFYLNCDTRRNEKEGTLGKTQFSFPPLKIQDSSDSGKKAY  
TESLHGYTLSNSKGPVQPTAQGEEKGGLRIDMEDKMLPKCTDLKAKQLLLSDILNTKKLQ  
WKSKEQKRKI QEDKNQVKGLPSINTSLLTPPYLKFDTTGQENVIRIAKVSLPQRSKE  
SSDAGRIACPEATHGELSSDVKQLKAHLLQKEEKDREKVADMTSVLDPNMYLKAKKSPV  
LHTSHSFDLQWKTREQEEKVQVKSGPGVMLS KSPSRSSPLHLNVNTGFQEESIPILTR  
PSFPLVKLVSPDTEGGTCIRPIAGDIL IYLQKGKHVSQNKEEDDVQIVSILIFPKHQEE  
KVQECEGEPGVVLTKSTSLPSLSQLELDKETHLGNEMLRLKRPILRRISHIGETVHRESV  
VGDIPKDVKNEKQHIPPQKEERNQKKI IDMRGTDITLKS KSPRSCMLHRTLVHNIGGQG  
RKEHEGQDKPPGMIQRKMCILFSKPLPSNLKLERATHADEERLGGKTSFVLPLMPSALPD  
TEKTADAEARSGDVRKGKPHRSQKENRHEVKTIDMRFR IHCQEARISPM SHILNAKELVL  
NINKLEKKVHKDKDEACVVL SRTFLSIPSAPPLYLDSGNKTDKDTPGITGSSCPQRTLHV  
PSNTQKITNRDSVEGV DKNVVKQAEQYVPRPEAEQQLTSNFMISVQQRNQPSRVRSEEDL  
NQLVLNSRDEDIYFTGFGTIRSGKRPEWLTGKKAQPVKYKTETLTAFLSYPTMDATKMG  
GLEEDTEIMDNLNHKISP KASVSLIRKISKELYVTLGTPANSKGFSVSERYAHQETSSK  
VSPELAGSCKFDKPKEDGQSNDRISKMFSPKVLAPQTKGSLKKISIVTNWNAPQNIEEQD  
IVMKKQVIRRCHEGHKTRTNTILSKFPLQSGKQKTPSETDVKKTTAHL SLQMLPGIHMD  
MTEIDPAKGGRKQALLISEQEEGVLEFLPKSLFPWPWFQFQSGDLEEKHQTDANTNINLE  
QKKLEMDNDSTVNQKEGKLKIGTNRALHLQEEKTEMHKARTANLEKERGRMDTSSSAHPH  
LLSLKAEESQMKTVITHRENSRLIMQKQKKELEASNAKQSIQLQKLFQRNVLDSFYSYV  
PLSPKRKDKQGRLTIRDLKRELSTKYLTMKIQNHPI PQMLNITGRGTPSNRKKLEYDVKL  
KNIASWSKDVSGIFIRSLSISIMRSPHTDPKTNLEREKRICLPKFQEKSPNTSEMSKRDT  
LTIVKGEQNFNTNTPQDPQPFVAVDKQMQKLPNVKSEANLRSEM NKKYLKAQTKERIVPE  
HDVSRI IKKPDLR IIEQEEKILKRILTPTECPSMLEDPKLPKQRDQSEPVDMTTQKVQQ  
QKAFPGTVPIPPQVKSSEVKIVADSTNAEHLLPICEATKAISESQVKNMIQDKVSSDKLD  
NIQAYKPDDLKSPPFPEGPD TISTAIYPKTQHKSLLEQFTPKEKNKL TSHLESKALEIQL  
NLIPEMARKSLQMFNFYPKGTISKDNSWRFYSRHKTMNFM SLEGTD TIEPNSKHKHQKDS  
PLASNMTLIVDVSSDSEETITKLQSINKLENGTSAVTSASEMLLPHTLQNH SVKEKGKL  
LMHFSVKTL EIQMAFPRIVRESYAMTSAHERKKPLSNCIHPGFTGPKRQNRILLSEEK  
SLHQIDL DLQYKYLRFLGLPVGSTFPKPNVLPKHSKLNTI AVCKNVNAGGQSGSLSIDT  
ELLEQHISFKKQSPHENSSLIRKFPQPTLVCASDRDLHSPRK KDTQVLSESEFHVTPPEKN  
KQYHVWFQERNTCESVDLRTQRNATGSAVSCETQISED FVDIQTDIESPADLDECSCLEV  
SESEECVFLEANSYLSQESENILFELQTGIPLENVYKITTDLKS FYSEDSGSHCTRECRK

ETLIITPPSCKSHKSRKYRSSSKMKSPDWLCHSSSNTAEIQSRSSSVSFSEEKISWTTKS  
RTSYSSAPLTESNIKSHLAKNQGKSHRHPESQERKKARSDLFRKNSSHWDHDYSCTHSGK  
KRDRKKRVYDYESERLDCFQSKHKSASKPHDDINFYSERKQNRPFFACVPADSLEVIP  
KTIRWTIPPETLRKRNFRIPLVAKISSSWNIWSSSKLLGSLSGSLTTVFHS

>sp|A6NC98|CC88B\_HUMAN Coiled-coil domain-containing protein 88B OS=Homo sapiens  
GN=CCDC88B PE=1 SV=1

MEGGKGPRLRDLFSGSLATWALGLAGLVGEAEDSEGESEEEEEEPPLWLEKRFLRLSDGA  
LLLRLVGI IAPSSRGPRMLRGLDGPAAWRVWNLNHLWGRLRDFYQEELQLLILSPPDL  
QTLGFDPLSEEAVEQLEGLVRLLLGASVQCEHRELFIRHIQGLSLEVQSELAIAIIEVTQ  
PGAGVVLALSGPDPGELAPAELEMLSRSLMGTL SKLARERDLGAQRLAELLEREPLCLR  
PEAPSRAPAEGPSHHLALQLANAKAQLRRLRQELEEKAELLLDSQAEVQGLEAEIRRLRQ  
EAQALSGQAKRAELYREEAEALRERAGRLPRLQEELRRCRERLQAAEAYKSQLEEEVLS  
GVLEASKALLEEQLEAARERCARLHETQRENLLRTRLGEAHAELDSL RHQVDQLAEENV  
ELELELQRSLEPPPGSPGEAPLAGAAPSLQDEVREAEAGRLRTLERENREL RGLLQVLQG  
QPGGQHPLLEAPREDPVLVLEEAPQTPVAFDHSPQGLVQKARDGGPQALDLAPPALDSV  
LEASAECPQAPSDPQEAESPLQAAAMPQASDWSPQESGSPVETQESPEKAGRRSSLQS  
PASVAPPQGPQGTIKIAPQLLGGETEGREAPQGELVPEAWGLRQEGPEHKPGPSEPSVQL  
EEQEGPNQGLDLATGQAEAREHDQRLEGTVRDPAWQKPQKQSEGALEVQVWEGPIPGESL  
ASGVAEQEALREEVAQLRRKAEALGDELEAQARKLEAQNTEAARLSKELAQARRAEAEAH  
REAEAQAEQARLREAVEAAGQELESASQEREALVEALAAAGRERRQWEREGSRLRAQSE  
AAEERMVLESEGRQHLEEAERERREKEALQAELEKAVVRGKELGDRLEHLQRELEQAAL  
ERQEFLREKESQHRYQGLEQRLEAELQAAATSKEEALMELKTRALQLEELFQLRQGA  
GLGPKKRAEPQLVETQNVRLIEVERSNAMLVAEKAALQGQLQHLEGQLGSLQGRAQELLL  
QSQRAQEHSSRLQAEKSVLEIQGQELHRKLEVLEEEVRAARQSQEETRQGGQALLRDHKA  
LAQLRRQEAEEGLLVHRDLKANMRALELAHRELQGRHEQLQAQRASVEAEVALLAE  
RERLMQDGHRRQGLEEELRRLQSEHDRAQMLLAELSRERGELQGERGELRGRLARLELER  
AQLEMQSQQLRSENQQDL SACRLTTQCELLTQLRSAQEEENRQLLAEVQALSRENRELL  
ERSLESRDHLHREQREYLDQLNALRREKQKLVEKIMDQYRVLEPVLPRTKKGSWLADKV  
KRLMRPRREGGPPGGLRLGADGAGSTESLGGPPETELPEGREADGTGSPSPAPMRAQSS  
LCLRDETLAGGQRRKLSSRFVGRSSESFSPGDTPRQFRQRHPGLGAPVSHSKGPGVG  
WENSAETLQEHETDANREGPEVQEPEKRPLTPSLSQ

>sp|Q49A88|CCD14\_HUMAN Coiled-coil domain-containing protein 14 OS=Homo sapiens GN=CCDC14  
PE=1 SV=3

MKRGIRDPFRKRKLGGRAKKVREPTAVNSFYREASLPSVWASLRRREMVRSGARPGQVL  
SSGRHTGPAKL TNGKKATYLRKIPRFNADSGYSIHSDSESQAETVHGLDGCASLLRDILR  
NEDSGSETAYLENRSNSRPLESKRYGSKKKRHEKHTIPLVVQKETSSSDNKKQIPNEASA  
RSERDTSLEQNSWLQDHYRMYSPIIYQALCEHVQTQMSLMNDLTSKNIPNGIPAVPCHA  
PSHSESQATPHSSYGLCTSTPVWSLQRPPCPKVHSEVQTDGNSQFASQGKTVSATCTDV  
LRNSFNTSPGVPCSLPKTDISA IPTLQQLGLVNGILPQQGIHKETDLLKCTIQTYSLFRS  
HGKETHLDSQTHRSPTQSQPAFLATNEEK CAREQIREATSERKDLNIHVRDTKTVKDVQK  
AKNVNKTAEKVRIKYLLGELKALVAEQEDSEIQR LITEMEACISVLPTVSGNTDIQVEI  
ALAMQPLRSENAQLRRQLRILNQQLREQKTQKPSGAVDCNLELFSLQSLNMSLQNQLEE  
SLKSQELLQSKNEELLKVIENQKDENKKFSSIFKDKDQTI LENKQQYDIEITRIKIELEE  
ALVNVKSSQFKLETA EKENQILGITLRQRDAEVTRLRELTRTLQTSMAKLLSDLSVDSAR

CKPGNNLTKSLLNIHDKQLQHDPAPAHTSIMSYLNKLETNYSFTHSEPLSTIKNEETIEP  
DKTYENVLSSRGPQNSNTRGMEEASAPGIIISALSKQDSDEGSETMALIEDEHNLDNTIYI  
PFARSTPEKKSPLSKRLSPQPQIRAAATTQLVSNGLAVSGKENKLCTPVICSSSTKEAED  
APEKLSRASDMKDTQLLKKIKEAIGKIPAATKEPEEQTACHGPSGCLSNSLQVKGNTVCD  
GSVFTSDLMSDWSISSFSTFTSRDEQDFRNGLAALDANIARLQKSLRTGLLEK

>sp|Q0P6D6|CCD15\_HUMAN Coiled-coil domain-containing protein 15 OS=Homo sapiens GN=CCDC15  
PE=2 SV=2

MLGSMARKKPRNTSRLPLALNPLKSKDVLAVLAERNEAIVPGAWVEPASPGSSEIPAYT  
SAYLIEEELKEQLRKKQEALKHFQKQVKYRVNQQIRLRKKQQLQKSYERAQKEGSIAMQS  
SATHLTSKRTSVFPNNLVAIGSSRLPPSLMPGDGIEDEENQNELFQQQAQALSETMKQA  
RHRLASFKTVIKKGSVFPDDGRKSFLTREEVLSRKPPASTGINTGIRGELPIKVHQGLLA  
AVPYQNYMENQELDYEEPDIYEESLVTDEKGGEDLFGRGQQDQQAHSSEDKNKPFSRVQ  
KVKFKNPLFVLMEEEEQKQLHFEGLQDILPEAQDYFLEAQGDLLLETQGDLTGIQSVKPD  
QAVEMKVQVTEPEGQAIEPEGQPIKTETQGIMLKAQSIELEEGSIVLKTQDPLTNQALL  
TKNQDVLKDHCVLPKDQSILLKYQDQDFLPRDQHVHLHKDQDILPKYQDQNFPLPKDQNF  
SRDQHVLPKDQDILPKYQDQNFPLPKDQNFSLRDQHVLPKDQNILPKYQGQDFLPKDQDFL  
SRDQHVLPKDWNILPKCQDQDFLPRDQGVLPKDQNILPICQDQDFLPRDQGYLPKDQNIL  
PICQDRDFLPRDLHVLSDQNILPKCQDQDFLPKYQKVHFKEPYSDMTDEKGREDFSLAD  
YQCLPPKSQDQDDIKNQPPASFMREERVREELPLDYHQYVVPKIQDQDSPREQNKHIKLP  
SSFKEWEIARGNTPGVPLAYDRYQSGLSTEFQAPLAFQSDVDKEEDKKERQKQYLRHRL  
FMDIEREQVKEQQRKEQKKKIEKIKKKREQECYAAEQRIILRMNFHEDPYSGEKLSEILA  
QLQLQEIKGTREKQREKEYLRYVEALRAQIQEKMQLYNITLPLCCCGPDFWDAHPDTC  
ANNCIFYKNHRAITRALHSFINSCDVPGGNSTLRVAIHNFAAHRRTLKNL

>sp|Q96LX7|CCD17\_HUMAN Coiled-coil domain-containing protein 17 OS=Homo sapiens GN=CCDC17  
PE=1 SV=2

MDSHSGEPALLPCGTCMDVFRSSALLATHTQRFICIGHPTQEMTFGAQASVATEPQRAAVV  
PQEHQGVPPQEPQGLPDQASRSALKRLTEEVQWLRLSLQEMRPWITEVPRVFAGPWTRSE  
ARPPSPMSEAVGSPSERLRALFRTRARRVAEMEAQSRLQLRGEELSRLQVVACTRGGM  
SRLFGLEQEIRELQAEAGRTRGALEVLGARIQELQAEPGNPLSSRREAELYSPVQKANPG  
TLAAEIRALREAYIRDGGRDPGLGQIWQLQVEASALELQRSQTRRGRAGATSGELPVVE  
AENRRLEAEILALQMRGRAPLGPQDLRLLDGASLQPKGRDPPLPPPVAPPLPLPGF  
SEPQLPGTMRNLGLDSHFLLPTSDMLGPAPYDPGAGLVIFYDFLRGLEASWIWVQLRTG  
LARDGRDTGRTTALPPALCLPPPPAPGPMGNCAILASRQVPRLPPSSSVSLVCELQVWQ  
GLAWARAPQPKAWVSLGLFDQDQRVLSGRWRLPLRALPLDPSLSLQGLNGIPQAGQAELF  
LRLVNARDAAVQTLAEINPASVHEYQYPPPVSSSTSSLEASFLTPAVGFADPPPRTEEPLS  
GVKDRDEGLGPHHSSDLPPVSF

>sp|Q5T9S5|CCD18\_HUMAN Coiled-coil domain-containing protein 18 OS=Homo sapiens GN=CCDC18  
PE=1 SV=1

MESSSSDYINKDNEEESLLANVASLRHELKITEWSLQSLGEELSSVSPSENSDYAPNPSR  
SEKLILDVQPSHPGLLNYSPIYENVCKISGSSTDFQKKPRDKMFSSAPVDQEIKSLREKL  
NKLRRQNACLVTQNHSLMTKFESIHFEQTQSRKVSMLESAQQQAASVPILEEQIINLEA  
EVSAQDKVLREAENKLEQSQKQMVIEKEQSLQESKEECIKLVDLLEQTKQGKRAERQRNE  
ALYNAEELSKAFQYKQKVAEKLEKVQAEELILERNLTNCEKENKRLQERCGLYKSELEI  
LKEKLRQLKEENNGKEKLRIMAVKNSEVMAQLTESRQSILKLESELENKDEILRDKFSL

MNENRELKVRVAAQNERLDLCQQEIESSRVELRSLEKIIISQLPLKRELFGFKSYLSKYQM  
SSFSNKEDRCIGCCCEANKLVISELRIKLAIKEAEIQKLHANLTANQLSQSLITCNDSQES  
SKLSSLETEPVKLGGHQVESVKDQNQHTMNKQYEKERQRLVTGIEELRTKLIQIEAENS  
LKVNMAHRTSQFQLIQEELLEKASNSSKLESEMTKKCSQLLTLEKQLEEKIVAYSSIAAK  
NAELEQELMEKNEKIRSLETNINTEHEKICLAFEKAKKIHLEQHKEMEKQIERLEAQLEK  
KDQQFKEQEKTMSMLQQDIICKQHHLES�DRLLTESKGEMKKENMKKDEALKALQNQVSE  
ETIKVRQLDSALEICKEELVLHLNQLLEGNKEKFEKQLKKKSEEVYCLQKELKIKNHSLQE  
TSEQNVILQHTLQQQQQMLQQETIRNGELEDQTQKLEKQVSKLEQELQKQRESSAEKLRK  
MEEKCESAAHEADLRQKVIELTGARQVKIEMDQYKEELSKMEKEIMHLKRDGENKAMH  
LSQLDMILDQTKTELEKKTNAVKELEKLQHSTETELTEALQKREVLETELQNAHGELKST  
LRQLQELRDVLQKAQLSLEEKYTTIKDLTAELECKMEIEDKKQELLEMDQALKERNWEL  
KQRAAQVTHLDMTIREHRGEMEQQIKLEGTLEKSELEKCNKQIESLNDKLQNAKEQL  
REKEFIMLQNEQEISQLKKEIERTQQRMKEMESVMKEQEYIATQYKEAIDLQELRLTR  
EQVQNSHTELAEARHQVQAQREIERLSSELEDKQLSKEKDAHGNHLAEELGASKVREA  
HLEARMQAEIKKLSAEVESLKEAYHMEMISHQENHAKWKISADSQKSSVQQLNEQLEKAK  
LELEEAQDTVSNLHQVQDRNEVIEAANEALLTKESELTRLQAKISGHEKAEDIKFLPAP  
FTSPTEIMPDVQDPKFAKCFHTSFSKCTKLRRSISASDLTFKIHGDEDLSEELLQDLKKM  
QLEQPSTLEESHKNLYTQPDSEKPLTYNLEADSSNNDFNTLSGMLRYINKEVRLKKS  
SMQTGAGLNQGENV

>sp|Q9BXT2|CCG6\_HUMAN Voltage-dependent calcium channel gamma-6 subunit OS=Homo sapiens  
GN=CACNG6 PE=2 SV=1

MMWSNFFLQEENRRRGAAGRRRAHGQGRSGLTPEREGVKLALLLAAGATLAVLSVGTE  
FWVELNTYKANGSAVCEAAHLGLWKACTKRLWQADVPVDRDTCGPAELPGEANCYFKFF  
TTGENARIFQRTTKKEVNLA-AAVIAVLGLAVMALGCLCIIMVLSKGAEFLLRVGAVCFGL  
SGLLLLVSLEVFRHSVRALLQRVSPPEPPAPRLTYEYSWSLGCVGAGLILLGAGCFLL  
LTLPSWPWGSCLPKRGHRAT

>sp|Q8TD31|CCHCR\_HUMAN Coiled-coil alpha-helical rod protein 1 OS=Homo sapiens GN=CCHCR1  
PE=1 SV=2

MFPPSGSTGLIPPSHFQARPLSTLPRMAPTWLSDIPLVQPPGHQDVSERRLDTRPQVTM  
WERDVSSDRQEPGRGRSWGLEGSQALSQQA-EVIVRQLQELRRLEEEVRLRETSLQQKM  
RLEAQAMELEALARA-EKAGRAEAEGLRAALAGAEVVRKNLEEGSQRELEEVQRLHQEQLS  
SLTQAHEEALSSLTSAEGLEKSLSSLETRRAGEAKELAEAQREAELLRKQLSKTQEDLE  
AQVTLVENLRKYVGEQVPSEVHSQTWELERQKLEETMQHLQEDRDSLHATAELLQVRVQS  
LTHILALQEEELTRKVQPSDSLEPEFTRKCQSLNRWREKVFALMVQLKAQELEHSDSVK  
QLKGQVASLQEKVTSQSSEQAILQRSLQDKAAEVEVERMGAKGLQLELSRAQEARRRWQQ  
QTASAEELRLVNAVSSSQIWLETTMAKVEGAAALPSLNNRLSYAVRKVHTIRGLIAR  
KLALALQRLQESCLPPPVTDVSLQLQQLREERNRLDAELQLSARLIQQEVGRAREQGEAE  
RQQLSKVAQQLQELQQTQESLASLGLQLEVARQGQQUESTEEAASLRQELTQQQELYGQA  
LQEKVAEVETRLREQLSDTERRLNARREHAKAVVSLRQIQRRAAQEKERSQELRRLQEE  
ARKEEGQRLARRLQELERDKNLMLATLQQEGLLSRYKQQRLLTVLPSLLDKKKS-VVSSPR  
PPECSASAPVAAAVPTRESIKGSLSVLLDDLQDLSEAISKEEAVCQGDNLDRCSSNPQM  
SS

>sp|P51671|CCL11\_HUMAN Eotaxin OS=Homo sapiens GN=CCL11 PE=1 SV=1  
MKVSAALLWLLLIAAAFSPQGLAGPASVPTTCCFNLANRKIPLQRLESYRRITSGKCPQK

AVIFKTKLAKDICADPKKKWVQDSMKYLDQKSPTPKP

>sp|000585|CCL21\_HUMAN C-C motif chemokine 21 OS=Homo sapiens GN=CCL21 PE=1 SV=1  
MAQSLALSLLILVLAFGIPRTQSGDGAQDCCLKYSQRKIPAKVVRSYRKQEPSLGCSIP  
AILFLPRKRSQAELCADPKELWVQQLMQHLDKTPSPQKPAQGCRKDRGASKTGKKGKGSK  
GCKRTERSQTPKGP

>sp|015444|CCL25\_HUMAN C-C motif chemokine 25 OS=Homo sapiens GN=CCL25 PE=1 SV=2  
MNLWLLACLVLGFLGAWAPAVHTQGVFEDCCLAYHYPIGWAVLRRRAWTYRIQEVSGSCNL  
PAAIFYLPKRHRKVCGNPKSREVQRAMKLLDARNKVFACLHHNTQTFQAGPHAVKKLSSG  
NSKLSSSKFSNPISSSKRNVSLISANSGL

>sp|P24863|CCNC\_HUMAN Cyclin-C OS=Homo sapiens GN=CCNC PE=1 SV=2  
MAGNFWQSSHYLQWILDKQDLLKERQKDLKFLSEEEYWKQIFFTNIQALGEHLKLRQQ  
VIATATVYFKRFYARYSLKSIDPVLMAPTCVFLASKVEEFGVVSNTRLIAAATSVLKTRF  
SYAFPKEFPYRMNHILECEFYLLELMDCCCLIVYHPYRPLLQYVQDMGQEDMLLPLAWRIV  
NDTYRTDLCLLYPPFMIALACLVACVVQKQDARQWFAELSDMEKILEIIRVILKLYEQ  
WKNFDERKEMATILSKMPKPKPPPNSEGEQGPNGSQNSSYSQS

>sp|P51681|CCR5\_HUMAN C-C chemokine receptor type 5 OS=Homo sapiens GN=CCR5 PE=1 SV=1  
MDYQVSSPIYDINYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKR  
LKSMTDIYLLNLAISDLFFLLTVPFWAHYAAAQWDFGNTMCQLLTGLYFIGFFSGIFFII  
LLTIDRYLAVVHAVFALKARTVTFGVVTSVITWVVAVFASLPGIIFTRSQKEGLHYTCSS  
HFPYSQYQFWKNFQTLKIVILGLVPLLMVICYSGILKTLLRCRNEKKRHRAVRLIFTI  
MIVYFLFWAPYINIVLLLNTFQEFFGLNCCSSNRDQAMQVTETLGMTHCCINPIIYAFV  
GEKFRNYLLVFFQKHIAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISVGL

>sp|Q6W349|CD011\_HUMAN Putative uncharacterized protein encoded by LINC00575 OS=Homo sapiens GN=LINC00575 PE=5 SV=1  
MPTSETSWWPAGCLSCSAWTSDSRFFNLWTLGLAPAASQGFSGLKPQTDDCTVSFPGFE  
AFGLGLSHYWHLSFPACRQSIMGLCLVIVLANSS

>sp|P11836|CD20\_HUMAN B-lymphocyte antigen CD20 OS=Homo sapiens GN=MS4A1 PE=1 SV=1  
MTTPRNSVNGTFPAEPMKGPIAMQSGPKPLFRRMSSLVGPTQSFFMRESKTLGAVQIMNG  
LFHIALGGLLMIPAGIYAPICVTWYPLWGGIMYIISGSLAATEKNRKLKLVKGKMIMN  
SLSLFAAISGMILSIMDILNIKISHFLKMESLNFIRAHTPYINIYNCEPANPSEKNSPST  
QYCYSIQSLFLGILSVMLIFAFFQELVIAGIVENEWKRTCSRPKSNIVLLSAEEKKEQTI  
EIKEEVVGLTETSSQPKNEEDIEIPIQEEEEETETNFPEPPQDQESSPIENDSSP

>sp|Q9HCU0|CD248\_HUMAN Endosialin OS=Homo sapiens GN=CD248 PE=1 SV=1  
MLLRLLLAWAAAGPTLGQDPWAAEPRAACGPSSCYALFPRRRTFLEAWRACRELGGDLAT  
PRTPEEAQRVDSL VGAGPASRLWIGLQRQARQCQLRPLRGFTWTTGDQDTAFTNWAQP  
ASGGPCPAQRCVALEASGEHRWLEGSCTLAVDGYLCQGFEGACPALQDEAGQAGPAVYT  
TPFHLVSTEFEWLPFGSVAAVQCQAGRGASLLCVKQPEGGVGWSRAGPLCLGTGCSPDNG  
GCEHECVVEVDGHVSCRCTEGFRLAADGRSCEDPCAQAPCEQQCEPGGPQGYSCHCRLGF  
RPAEDDPHRCVDTDECQIAGVCQCMCVNYVGGFECYCEGHELEADGISCPAGAMGAQA  
SQDLGDELDDGEDEDEDEAWKAFNGGWTEMPGILWMEPTQPPDFALAYRPSFPEDREP  
QIPYPEPTWPPLSAPRVPHYSSVLSVTRPVVVSATHPTLPSAHQPPVIPATHPALSRDH  
QIPVIAANYPDLSAYQPGILSVSHAQPPAHQPPMISTKYPELFPAHQSPMPDTRVAG  
TQTTTHLPGIPPNHAPLVTTLGAQLPPQAPDALVLRTQATQLPIIPTAQPSLTTTSRSPV  
SPAHQISVPAATQPAALPTLLPSQSPTNQTSPISPTHPHSKAPQIPREDGSPSKLALWLP

SPAPTAAPTALGEAGLAHSQRDDRWLLVALLVPTCVFLVLLALGIVYCTRCGPHAPNK  
RITDCYRWVIHAGSKSPTEPMPPRGSALTGVQTCRTSV

>sp|Q5ZPR3|CD276\_HUMAN CD276 antigen OS=Homo sapiens GN=CD276 PE=1 SV=1

MLRRRGSPGMGVHVGAAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFSPPEPGFSL  
AQLNLIWQLTDTKQLVHSFAEQDQGSAYANRTALFPDLLAQGNASRLQRVRVADEGSF  
TCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQD  
GGGVPLTGNVTTSQMANEQGLFDVHLSILRVVLGANGTYSCLVRNPVLQQDAHSSVTITPQ  
RSPTGAVEVQVPEDPVVALVGTDATLRCSFSPEPGFSLAQLNLIWQLTDTKQLVHSFTEG  
RDQGSAYANRTALFPDLLAQGNASRLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPY  
SKPSMTLEPNKDLRPGDVTITCSSYRGYPEAEVFWQDGGGVPLTGNVTTSQMANEQGLF  
DVHSLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWTVGLSVCLIAL  
LVALAFVCWRKIKQSCEENAGAEDQDGEGEKSKTALQPLKHSKEDDGQEIA

>sp|P10747|CD28\_HUMAN T-cell-specific surface glycoprotein CD28 OS=Homo sapiens GN=CD28  
PE=1 SV=1

MLRLLALNLFPSIQVTGNKILVKQSPMLVAYDNAVNLSCKYSYNLFSREFRASLHKGLD  
SAVEVCVVYGNYSQQLQVYSKTGFNCDGKLGNESVTFYLNLYVNQTDIYFCKIEVMYPP  
PYLDNEKSNGTIIHVKGKHLCPSPLPFGPSKPFVWLVVVGGVLACYSLLVTVAFIIFWVR  
SKRSRLHSDYMNMTPRRPGPTRKHYPYAPPRDFAAYRS

>sp|Q7L3B6|CD37L\_HUMAN Hsp90 co-chaperone Cdc37-like 1 OS=Homo sapiens GN=CDC37L1 PE=1  
SV=1

MEQPWPPPGPWSLPRAEGEAEESDFDVPSSPRCPQLPGGGAQMYSHGIELACQKQKEF  
VKSSVACKWNLAEAQKLGSLALHNSESLDQEHAKAQTAVSELQRREEEWRQKEEALVQR  
EKMCLWSTDAISKDFNKSFINQDKRKDTEDEKSESFMQKYEQKIRHFGMLSRWDDSQR  
FLSDHPYLVCEETAKYLILWCFHLEAEKKGALMEQIAHQAVVMQFIMEMAKNCNVDPRGC  
FRLFFQKAKAEEGYFEAFKNELEAFKSRVRLYSQSFSFQPMTVQNHVPHSGVGSIGLLE  
SLPQNPDYLYQSISTALCSLNSVVHKEDDEPKMMDTV

>sp|P07766|CD3E\_HUMAN T-cell surface glycoprotein CD3 epsilon chain OS=Homo sapiens  
GN=CD3E PE=1 SV=2

MQSGTHWRVLGLCLLSVGVWGQDNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQ  
HNDKNIGGEDDKNIGSDEDHLSLKEFSELEQSGYYVCYPRGSKPEDANFYLYLRARVCE  
NCMEMDVMSVATIVIVDICITGGLLLVYYWSKNRKAKAKPVTRGAGAGGRQGRQNKERP  
PPVPNPDYEPPIRGQRDLYSGLNQRR

>sp|P31358|CD52\_HUMAN CAMPATH-1 antigen OS=Homo sapiens GN=CD52 PE=1 SV=1  
MKRFLFLLLTISLLVMVQIQGTGLSGQNDSQTSSPSASSNISGGIFLFFVANAIHLFCF  
S

>sp|P34810|CD68\_HUMAN Macrosialin OS=Homo sapiens GN=CD68 PE=1 SV=2

MRLAVLFSGALLGLLAAQGTGNDCPHKKSATLLPSFTVTPTVTESTGTTSHTTKSHKTT  
THRTTTTGTTSHGPTTATHNPTTSHGNVTVHPTSNSSTATSQGPSTATHSPATTSHGNAT  
VHPTSNSSTATSPGFTSSAHPEPPPPSPSPSPSKETIGDYTWNGSQPCVHLQAQIQIRV  
MYTTQGGGEAWGISVLNPNKTKVQGSCEGAHPHLLLSFPYGHLSFGFMQDLQKQVYLSY  
MAVEYNVSFPHAAQWTFSAQNASLRDLQAPLGQSFSCSNSSIILSPAVHLDLLSLRLQAA  
QLPHTGVFGQSFSCPSDRSILLPLIIGLILLGLLALVLI AFCIIRRRPSAYQAL

>sp|P42081|CD86\_HUMAN T-lymphocyte activation antigen CD86 OS=Homo sapiens GN=CD86 PE=1  
SV=2

MDPQCTMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFANSQNSLSSELVFWQDQ  
ENLVLNEVYLGKEKFDSVHSKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGM  
IRIHQMNSELSVLNFSQPEIVPISNITENVYINLTCSSIHGYPEPKKMSVLLRTKNSTI  
EYDGMQKSQDNVTELYDVSISLSVSFPDVTSNMTIFCILETDKTRLLSSPFSIELEDPQ  
PPPDHIPWITAVLPTVIICVMVFCLILWKWKKKKRPRNSYKCGTNTMERESEQTKKREK  
IHIPERSDEAQRVFKSSKTSSCDKSDTCF

>sp|Q8IWIY9|CDAN1\_HUMAN Codanin-1 OS=Homo sapiens GN=CDAN1 PE=1 SV=4

MAAVLESLLREEVSVAAVVRWIARSTQGSSEDNAGEAAALSSLRALRKEFVPFLLNFLREQ  
SSRVLPGQPPTPAKTPGASAAALPGRPGGPPRGSGARSQLFPPTEAQSTAAEAPLARRGG  
RRRGPGPARERGGRGLEEGVSGESLPGAGGRRLRGSGSPSRPSLTLSDPNLSNLEEFPP  
VGSVPPGPTGTPKSRRIINPTPVSEERSLSKPKTCFTSPPISCVPSSQPSALDTSPWGLGL  
PPGCRSLQEEREMLRKERSKQLQQSPTPTCPTPELGSPLPSRTGSLTDEPADPARVSSRQ  
RLELVALVYSSCIAENLVPNFLFLELFFVFQLLTARRMVTAKDSDPELSPAVLDSLESPLF  
QSIHDCVFFAVQVLECHFQVLSNLDKGTLKLLAENERLLCFSPALQGRRAAYEGSVAKV  
SLVMPSTQAVSFQPETDNANFSSDRAFHTFKKQRDVFYEVLREWEDHHEEPGWDFEKG  
LGSRIRAMMGQLSAACSHSHFVRLFQKQLLQMCQSPGGAGGTVLGEAPDVL SMLGADKLG  
RLWRLQERLMAQSSGGPCPPPTFPGCQGFRDFILSASSFQFNQHLMDSLSLKIQELNG  
LALPQHEPNDEGEDSDVDWQGERKQFAVVLLSLRLLAKFLGFVAFLPYRGPEPPPTGELQ  
DSILALRSQVPPVLDVRTLLQRGLQARRAVLTPWLVFELSFADHVVPLEYYRDIPTLL  
LRLHRSVLVSQESEGKMCFLNKLALLAVLGWLFQIPTVPEDLFFLEEGPSYAFEVDTVAP  
EHGLDNAPVVDQQLLYTCCPYIGELRKLLASWVSGSSGRSGGFMRKITPTTTTSLGAQPS  
QTSQGLQAQLAQAFFHNQPPSLRRTVEFVAERIGSNCKHIKATLVADLVRQAESLLQEQ  
LVTQGEEGGDPQALLEILCSQLCPHGAQALALGREFCQRKSPGAVRALLPEETPAAVLSS  
AENIAVGLATEKACAWLSANITALIRREVKAASVRTLRAQGPEPAARGERRGCSRACEHH  
APLPSHLISEIKDVLAVGPRDPDEGVSPHEQLLGGQLGQTLRCRQFLCPPAEQHLAK  
CSVELASLLVADQIPILGPPAQYRLERGQARRLLHMLLSLWKEDFQGPVPLQLLLSPRNV  
GLLADTRPREWDLFLFLRELVEKGLMGRMEIEACLSLHQAQWPGDFAEELATLSNLFL  
AEPHLPEPQLRACELVQPNRGTVLAQS

>sp|Q99459|CDC5L\_HUMAN Cell division cycle 5-like protein OS=Homo sapiens GN=CDC5L PE=1  
SV=2

MPRIMIKGGVWRNTEDEILKAAVMKYGKNQWSRIASLLHRKSAKQCKARWYEWLDPSIKK  
TEWSREEEELKLLHLAKLMPTQWRTIAPIIGRTAAQCLEHYEFLDKAAQRDNEETDDP  
RKLKPGEIDPNPETKPARPDPIDMDEDEMLSEARARLANTQGKKAKRKAREKQLEEAR  
RLAALQKRRELRAAGIEIQKKRKRKRGVDYNAEIPFEKKPALGFYDTSEENYQALDADFR  
KLRRQQLDGLRSEKEGRDRKKDKQHLKRKKESDLPSAILQTSGVSEFTKKRSKLVLPAP  
QISDAELQEVVKVGQASEIARQTAEESGITNSASSTLLSEYNVTNNSVALRTPRTPASQD  
RILQEAQNLMAITNVDTPKGLNTPHESDFSGVTPQRQVVQTPNTVLSTPFRTPSNGA  
EGLTPRSGTTPKPVINSTPGRTPLRDKLNINPEDGMADYSDPSYVKQMERESREHLRLGL  
LGLPAPKNDFEIVLPENAEKELEEREIDDTYIEDAADVDARKQAIRDAERVKEMKRMHKA  
VQKDLPRPSEVNETILRPLNVEPPLTDLQKSEELIKKEMITMLHYDLLHHPYPSGNKKG  
KTVGFGTNNSEHITYLEHNPYEKFSKEELKKAQDVLVQEMEVVKQGM SHGELSSEAYNQV  
WEECYSQVLYLPQGSRYTRANLASKKDRIESLEKRLEINRGHMTTEAKRAAKMEKKMKIL  
LGGYQSRAMGLMKQLNDLWDQIEQAHLRLTFEELKKHEDSAIPRRLECLKEDVQRQQR  
EKELQHRYADLLLEKETLKSFK



>sp|Q6P1J9|CDC73\_HUMAN Parafibromin OS=Homo sapiens GN=CDC73 PE=1 SV=1

MADVLSVLRLQYNIQKKEIVVKGDEVIFGEFSWPKNVKTNVYVWGTGKEGQPREYYTLDSI  
LFLNNVHLSHPVYVRRATENIPVVRPDRKDLLGYLNGEASTSASIDRSAPLEIGLQR  
STQVKRAADEVLAEAKPRIEDEECVRLDKERLAARLEGHKEGIVQTEQIRSLSEAMSVE  
KIAAIKAKIMAKKRSTIKTDLDDITALKQRSFVDAEVDVTRDIVSRERVWRTRTTILQS  
TGKNFSKNIFAILQSVKAREEGRAPEQRPAPNAAPVDPTLRTKQPIPAAYNRYDQERFKG  
KEETEGFKIDTMGTYHGMLTKSVTEGASARKTQTPAAQPVPRPVSQARPPPNQKKGSRT  
IIIIIPAATTSLITMLNAKDLLQDLKFVPSDEKKKQGCQRENETLIQRRKQDQMPGGTAIS  
VTVPYRVVDQPLKLPQDWRVAVFVQGPAPWQFKGWPWLLPDGSPVDIFAKIKAFHLKY  
DEVRLDPNVQKWDVTVLELSYHKRHLDRPVFLRFWETLDRYMKHSHLRF

>sp|Q96Q40|CDK15\_HUMAN Cyclin-dependent kinase 15 OS=Homo sapiens GN=CDK15 PE=1 SV=2

MGQELCAKTVQPGSCYHCSEGEAHSCRRSQPETTEAAFKLTDLKEASCMTSFHPRGL  
QAARAQKFKSKRPRSNSDCFQEEDLRQGFQWRKSLPFGAASSYLNLEKLGEYSYATVYKG  
ISRINGQLVALKVISMNAEEGVPTAIREASLLKGLKHANIVLLHDIHTKETLTFVFEY  
MHTDLAQYMSQHPGGLPHNVRLFMFQLLRGLAYIHHQHVLHRDLKPQNLLISHLGELKL  
ADFLARAKSIPSQTYSSSEVTLWYRPPDALLGATEYSSELDIWGAGCIFIEMFQGGPLF  
PGVSNILEQLEKIWEVLGVPTEDTWPGVSKLPNYPWFPLPTPSLHVWNRLGRVPEA  
EDLASQMLKGFPRDRVSAQEALVHDYFSALPSQLYQLPDEESLFTVSGVRLKPEMCDLLA  
SYQKGHHPAQFSKCW

>sp|P24941|CDK2\_HUMAN Cyclin-dependent kinase 2 OS=Homo sapiens GN=CDK2 PE=1 SV=2

MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIREISLLKELNH  
PNIVKLLDVIHTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHS  
HRVLHRDLKPQNLLINTEGAIKLADFLARAFGVVPTYTHEVVTWYRAPEILLGCKYY  
STAVDIWSLGCIFAEMVTRRALFPGDSEIDQLFRIFRTLGTPEVWPGVTSMPDYKPSF  
PKWARQDFSKVVPPLDEGRSLLSQMLHYDPNKRISAKAALAHPPFQDVTKPVPHLRL

>sp|Q9UKL3|C8AP2\_HUMAN CASP8-associated protein 2 OS=Homo sapiens GN=CASP8AP2 PE=1 SV=1

MAADDDNGDGTSLFDVFSASPLKNDEGSLDIYAGLDSAVSDSASKSCVPSRNCLDYEE  
ILTEEGTAKEATYNDLQVEYGCQLQMKELMKKFKEIQTQNFSLINENQSLKKNISALIK  
TARVEINRKDEEISNLHQRLSEFPFRNNHKTARTFDTVTKDLKSRSPHLDDCKTDHR  
AKSDVSKDVHHSTSLPNLEKEGKPHSDKRSTSHLPTSVEKHCTNGVWSRSHYQVGEKSSN  
EDSRGRKDIRHSQFNRGTERVRKDLSTGCGDGEPRILEASQRLQGHPEKYGKGEPKTES  
KSSFKSNSDSYKGERINSSWEKETPGERSHSRVDSQSDKKLERQSERSQNINRKEVKS  
QDKEERKVDQKPKSVVKDQDHWRRSERASLPHSKNEITFSHNSSKYHLEERRGWEDCKRD  
KSVNSHSFQDGRCPSSLSNSRTHKNIDSKEVDAMHQWENTPLKAERHRTEDKRKREQESK  
EENRHIRNEKRVPTHEHLQKTNKETKKTITDLKKQNEPKTDKGEVLDNGVSEGADNKELAM  
KAESGPNETKNKDLKLSFMKKLNLTLSPAKKQPVSQDNQHKITDIPKSSGVCDSESSMQV  
KTVAYVPSISEHILGEAAVSEHTMGETKSTLLEPKVALLAVTEPRIGISETNKEDENSL  
VRSVDNTMHCEEPICGTETSFSPMEIQQTESLFPSTGMKQTIINGRAAAPVMDVLQTD  
VSQNFGLELDTKRNDNSDYCGISEGEMKVALSTTVSETTESILQPSIEEADILPIMLSE  
DNNPKFEPSVIVTPLVESKSCHEPLPKETLDSSLQQTTELMDHRMATGETNSVYHDDN  
SVLSIDLNLRLPIPEAISPLNSPVRPVAKVLRNESPPQVPVYNNSHKDVFLPNSAHSTSK  
SQSDLNKENQKPIYKSDKCTEADTCKNSPLDELEEGERSDSETSKPQESFEKNSKRRVS  
ADVRSKTIIPRRGSTVCLDKSRKTHVRIHQTNKNWKNRPDKSSRSKTEKKDKVMSTS  
SLEKIVPIIAVPSSEQEIHMMLRMIRKHVRKNYMKFKAKFSLIQFHRIIESAILSFTSLI

KHLNLHKISKSVTTLQKNLCDIIIESKLKQVKKNGIVDRLFEEQLPDMKKKLWKFVDDQLD  
YLFALKKKILVCDKSFGRDSEDEGKLEKTSKQNAQYSNSQKRSVDNSNRELLKEKLSKSE  
DPVHYKSLVGCKKSEENYQDQNNSSINTVKHDIKKNFNICFDNIKNSQSEERSLEVHCPS  
TPKSEKNEGSSIEDAQTSQHATLKPERSFEILTEQQASSLTFNLVSDAQMGEIFKSLLQG  
SDLLDSSVNCTEKSEWELKTPEKQLETLKCESIPACTTEELVSGVASPCPKMISDDNWS  
LLSSEKGPSLSSGLSLPVHPDVLDESCMFEVSTNLPLSKDNVCSVEKSKPCVSSILLED  
AVSLTPSPKSDGHL SFLKPDMSSTPEEVI SAHFSEDALLEEDASEQDIHLALED  
NSSSKSSCSSSWTSRSVAPGFQYHPNLPMAVIMEKSNDFIVKIRRATPSTSSGLKQSM  
MPDELLTSLPRHGKEADEGPEKEYISCQNTVFKSVEELENKKNVDGSKSTHEEQSSMIQ  
TQVPDIYEFLKDASDKMGHSDEVADECFKLHQVWETKVPESIEELPSMEEISHSVGEHLP  
NTYVDLTKDPVTETKNLGEFIEVTVLHIDQLGCSGGLNQSAQILDNSLQADTVGAFIDL  
TQDASSEAKSEGHPALAVEDLGCGVIQVDEDNCKEEKAQVANRPLKCIVEETYIDLTTE  
SPSSCEVKKDELKSEPGSNCDNSELPGLHNSHKRRNISDLNHPHKKQRKETDLTNKEK  
TKKPTQDSCENTEAHQKASKKKAPPVTKDPSSLKATPGIKDSSAALATSTSLSAKNVIK  
KKGEIIILWTRNDREILLECQKRGPSFKTFAYLAAKLDKNPNQVSERFQQLMKLFEKSK  
CR

>sp|Q96LT6|CA074\_HUMAN UPF0739 protein Clorf74 OS=Homo sapiens GN=Clorf74 PE=2 SV=1

MLLLDLSSPSPQLLVAAAQQLTGMGKRRSPQAICLHLAGEVLAVARGLPVLYDCNC  
AGASELQSYLEELKGLGFLTFGLHILEIGENSLIVSPEHVCQHLEQVLLGTIAFVDVSSC  
QRHPSVCSLDQLQDLKALVAEIIITHLQGLQRDSLAVSYSRLHSSDWNLCVFGILLGYP  
VPYTFHLNQGDDNCLALTPLRVFTARISWLLGQPPILLYSFSVPESLFPGLRDILNTWEK  
DLRTRFRTQDNFADLSISSEIVTLPAVAL

>sp|Q5SY80|CA101\_HUMAN Uncharacterized protein Clorf101 OS=Homo sapiens GN=Clorf101 PE=2  
SV=1

MSAREVAVLLLWLSYGSALWRYSTNSPNYRIFSTRSTIKLEYEGTLFTEWSVPETCFVL  
NKSSPTTELRCSSPGVHAIKPIVTPGDEEERYLFVESHCTFLWYYVRVHFFNNFTQLIT  
VWAYDPESADPDELLGNAEEPSINSIVLSTQMATLGQKPVIHTVLKRKVYSSNEKMRRGT  
WRIVVPMTKDDALKEIRGNQVTFQDCFIADFLILLTFPLLTIPGYLPISPRGSQML  
ASWDACVVASAVLVTDMETFTTDSFKSWTRIRVPPDILSDERRSVAHVILSRDGIVFL  
INGVLYIKSFRGFIRLGGIVNLPDGGITGISSRKWCWVNYLLKAKGRRSTFAVWTENEIY  
LGSILLKFARLVTTTELKNILSVTATLTIDRVEYTGHPLEIAVFLNYCTVCNVTKKIF  
LVIYNEDTKQWVSQDFTLDAPIDSVTMPHFTFSALPGLLLWNKHSIYYCYHNFTFTGILQ  
TPAGHGNSMLSNDIIHEVFIDYYGDILVKMENNVIFYSKINTRDAVKLHLWTNYTTRA  
FIFLSTSGQTYFLYALDDGTIIQIQDYPLHLEAQSI AFTTKDKCPYMAFHNNVAHVYFLD  
KGEALTVWTQIVYPENTGLYVIVESYGPKILQESHEISFEAAFGYCTKTLTLTFYQNVYD  
ERISDYFETQDKHTGLVLVQFRPSEYSKACPIAQKVQIAVGCDDKKFIAIKGFSKKGCH  
HHDFSYYIEKSYLRHQPSKNLRVRYIWGEYGCPLRLDFTEKFQPVVQLFDDNGYVKDVEA  
NFIVWEIHGRDDYSFNNTMAQSGCLHEAQTWKSMIELNKHLPLEEVWGPENYKHCFSYAI  
GKPGDLNQPYEIIINSSNGNHIFWPMGHSGMYVFRVKILDPNYSFCNL TAMFAIETFGILP  
SPSVYLVASFLFVLMLLFFTILVLSYFRYMRIYRRYIYEPLHKPQRKRKKN

>sp|Q96MC9|CA147\_HUMAN Uncharacterized protein Clorf147 OS=Homo sapiens GN=Clorf147 PE=2  
SV=2

MQGNNLQPPSPRPLECWSLHREAPQRTEASRTHPSPFLLALPGSHRTANQAQVVPGLVHHP  
QENTQRLRIRAGLSPFPRARLAAIGSTHGHRWVPGICLPRCLCPASCALHACPPHCNNAE

AHSWLRLGGPLQSRSEVHQHACGWGVTHATYGERGTSQAAERQRIAHTRALSVGNCPR  
SHFQCEFSISKWSEGTGTFSPRPRAVKSGVGGQPSPHIRITWRSCTTLTSKPCSRITP  
ECVVGWSRRSRHWYSMDRTGECQGLSPITR

>sp|Q3SY05|CA157\_HUMAN Putative uncharacterized protein encoded by LINC00303 OS=Homo sapiens GN=LINC00303 PE=5 SV=2

MYKSWTLGDPKEKEGVGNILEETKRTQNNTEQASRAINSPLQSPYTDSMKALAISSHWFL  
PQIHITLPPITKATRHRWPPACCGRRGGQTTLPLTPIVRACESMERSCPGNYPMQHERKV  
MQRHPTLR

>sp|Q8NEQ5|CA162\_HUMAN Transmembrane protein Clorf162 OS=Homo sapiens GN=Clorf162 PE=2 SV=1

MGGNGSTCKPDTERQGTLLSTAAPTTSAPCLSNHHNKKHLILAFCAVLLTLLLIAFIFL  
IISKYRKYRRERLPISPGLLRWVPLLSGMTADHSKPQAPDPHSDPPAKLSSIPGESLTY  
ASTTFKLSEEKSNHLAENHSADFDPVYAQIKVTN

>sp|Q5VU69|CA189\_HUMAN Uncharacterized protein Clorf189 OS=Homo sapiens GN=Clorf189 PE=1 SV=1

MSVEKMTKVEESFQKAMGLKKTVDWRNSHCHLWQMALGQRRNPYATLRMQDTMVQELA  
LAKKQLLMVRQAALHQLFEKEHQYQQELNQMKGAFYVERF

>sp|Q5T0J3|CA220\_HUMAN Putative uncharacterized protein Clorf220 OS=Homo sapiens GN=Clorf220 PE=2 SV=1

MIPVRGLWYCYLQVKKVRLREAERLGPKSQCPAECGAASWISWVLQHQQLLASEWATKDG  
RGTWGSKPSCTVPALSATSQLLQLGRLNSDLQFVRQRAKKSVSPPSLQFWCCLSRLSFH  
ALNQKINSTNINIT

>sp|Q7Z3S7|CA2D4\_HUMAN Voltage-dependent calcium channel subunit alpha-2/delta-4 OS=Homo sapiens GN=CACNA2D4 PE=1 SV=2

MVCGCSALLPLPNRPTMPATPNFLANPSSSSRWIPLQMPVAWAFVQKTSALLWLLLLG  
TSLSPA WGQAKIPLETVKLWADTFGGDLNTVTKYSGLLLQKKYKDVESLKIIEVDGL  
ELVRKFSEDMENMLRRKVEAVQNLVEAAEEADLNHEFNESLVFDYNSVLINERDEKGNF  
VELGAEFLLSENAHFSNLPVNTSISVQLPTNVYNKDPDILNGVYMSEALNAVVFENFQR  
DPTLTWQYFGSATGFFRIYPGIKWTPDENGVI TFDCNRNGWYIQAATSPKDIVILVDVSG  
SMKGLRMTIAKHTITITLDTLGENDFINIIAYNDYVHYIEPCFKGILVQADRDNREHFKL  
LVEELMVKGVGVDQALREAFILKQFQEAQKQSLCNQAIMLISDGAVEDYEPVFEKYNW  
PDCKVRVFTYLIGREVSFADRMKIACNNKGYTQISTLADTQENVMEYLHVLSRPMVIN  
HDHDI IWTEAYMSKLLSSQAQSLTLLTTVAMPVFSKKNETRSHGILLGVVGS DVALREL  
MKLAPRYKLGVHGYAFLNTNNGYILSHPDLRPLYREGKKLKPKPNYSVDLSEVEWEDQA  
ESLRTAMINRETGTLSDVKVPMDKGKRVLFLTNDYFFTDISDTPFSLGVVLSRGHGEYI  
LLGNTSVEEGLHDLHPDLALAGDWIYCITDIDPDHRKLSQLEAMIRFLTRKDPDLECDE  
ELVREVLFDVAVTAPMEAYWTALALNMSESEHVVDMAFLGTRAGLLRSSLFVGSEKVS  
RKFLTPEDEASVFTLDRFPLWYRQASEHPAGSFVFNLRWAEGPESAGEPMVVTASTAVAV  
TVDKRTAIAAAAGVQMKLEFLQRKFWAATRQCSTVDGPCTQSCEDSDLD CFVIDNNGFIL  
ISKRSRETGRFLGEVDGAVLTQLLSMGVFSQVTMYDYQAMCKPSSHHHSAAQPLVSPISA  
FLTATRWLLQELVLFLEWSVWGSWYDRGAEAKSVFHHSHKHKKQDPLQPCDTEYPVFVY  
QPAIREANGIVECGPCQKVFFVQQIPNSNLLLLVTDPTCDCSIFPPVLQEATEVKYNASV  
KCDRMRSQKLRRRPSCHAFHPEENAQDCGGASDTSASPPLLLL PVCAWGLLPQLLR

>sp|Q8WTZ4|CA5BL\_HUMAN Putative inactive carbonic anhydrase 5B-like protein OS=Homo sapiens GN=CA5BP1 PE=5 SV=2

MTQPPASTSGIMGTLSSWNKILQINQLHLVHNAVKFENFEDAALEENGLAVIGVFLKI  
SETSGSPVSTGRPKPLARKLRPAQKHVWLQSRPFLSSQVQENCKVTYFHRKHWVRIRPLR  
TTPPSWDYTRICIQREMVPARIRVLREMPVEAWRCFPNRLPLLSNIRPDFSKAPLAYVVKR  
WLWTARHPHLSAAW

>sp|Q9NP86|CABP5\_HUMAN Calcium-binding protein 5 OS=Homo sapiens GN=CABP5 PE=1 SV=1

MQFPMGPACIFLRKGIAEKQRERPLGQDEIEELREAFLEFDKDRDGFISCKDLGNLMRTM  
GYMPTMELIELGQQIRMNLGGRVDFDDFVELMTPKLLAETAGMIGVQEMRDAFKEFDTN  
GDGEITLVELQQAMQRLGERLTPREISEVVREADVNGDGTVDFEFVKMMSR

>sp|Q86Y37|ACL1\_HUMAN CDK2-associated and cullin domain-containing protein 1 OS=Homo sapiens GN=CACUL1 PE=1 SV=1

MEESMEEEEGGSYEAMDDQNHNNWEAAVDGFRQLPPPPPPSSIPAPAREPPGGQLLAV  
PAVSVDKRGKPEGLPMGPQPPPEANGVIMMLKSCDAAA AVAKAAPAPTASSTININTSTS  
KFLMNVITIEDYKSTYWPKLGDGAIDQLLTQSPGDYIPISYEQIYSCVYKVCQQHSEQMY  
SDLIKKITNHLERVSKELQASPPDLYIERFNIALGQYMGALQSIVPLFIYMNKFYIETKL  
NRDLKDDLIKLFTEHVAEKHIYSLMPLLLLEAQSTPFQVTPSTMANIVKGLYTLRPEWVQM  
APTLFSKFIPNILPPAVESELSEYAAQDQKFQRELIQNGFTRGDQSRKRAGDELAYNSSS  
ACASSRGYR

>sp|Q13137|CACO2\_HUMAN Calcium-binding and coiled-coil domain-containing protein 2 OS=Homo sapiens GN=CALCOCO2 PE=1 SV=1

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKDWIGIFR  
VGWKT TREYTFMWVTLPIDLNNSAKQQEVQFKAYYLPKDDEYYQFCYVDEDGVVRGAS  
IPFQFRPENEEDILVVTQGEVEEIEQHNLCKENQELKDSCISLQKQNSDMQAEQKK  
QEELETLSINKKLELVKEQKDYWETELLQLKEQNQKMSSENEKMGIRVDQLQAQLSTQ  
EKEMEKLVGQDQKTEQLEQLKKENDHLFLSLTEQRKDQKKLEQTVEQMKQNETTAMKKQ  
QELMDENFDLSKRLESEIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQV  
PTSDEGGARQNPGLAYGNPYSGIQESSSPSPLSIKKCPICKADDICDHTLEQQQMQLCF  
NCPICDKIFPATEKQIFEDHVFCHSL

>sp|P40123|CAP2\_HUMAN Adenylyl cyclase-associated protein 2 OS=Homo sapiens GN=CAP2 PE=1 SV=1

MANMQGLVERLERAVSRLESLSAESHRPPGNCGEVNGVIAGVAPSVEAFDKLMSMVAEF  
LKNSRILAGDVETHAEMVHSAFQAQRAFLLMASQYQQPHENDVAALLKPISEKIQEIQTF  
RERNRGSNMFNHLSAVSEIPALGWIAVSPKPGPYVKEMNDAATFYTNRVLKDYKHSDLR  
HVDVWKS YLNIWSELQAYIKEHHTTGLTWSKTGPVASTVSFAFSVLSSGPGLPPPPPLPP  
PGPPPLFENEGKKEESSPSRSALFAQLNQGEAITKGLRHVTDDQKTYKNPSLRAQGGQTQ  
SPTKSHTPSPTSPKSYPQKHAPVLELEGKKWRVEYQEDRNDLVISETELKQVAYIFKCE  
KSTIQIKGKVNSIIIDNCKKLGLVFDNVVGIVEVINSQDIQIQVMGRVPTISINKTEGCH  
IYLS DALDCEIVSAKSSSEMNILIPQGDYREFPIPEQFKTAWDGSKLITEPAEIMA

>sp|P47756|CAPZB\_HUMAN F-actin-capping protein subunit beta OS=Homo sapiens GN=CAPZB PE=1 SV=4

MSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYL  
LCDYNRDGDSYRSPWSNKYDPPLEDGAMP SARLRKLEVEANNAFDQYRDLYFEGGVSSVY  
LWDLDHGFAGVILIKKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTN

KSGSGTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEDMENKIRSTLNEIYFGTKDIV  
NGLRSIDAIPDNQKFQQLQRELSQVLTQRQIYIQPDN

>sp|Q9BWT7|CARD10\_HUMAN Caspase recruitment domain-containing protein 10 OS=Homo sapiens  
GN=CARD10 PE=1 SV=2

MPGRAEAGEAEEEEAGAGSGSEAEEDALWERIEGVRHRLARALNPAKLTPYLRQCRVIDEQ  
DEEEVLSTYRFPCRNVNRTGRLMDILRCRGKRGYEAFLAALFYYPEHFTLLTGQEPAQRC  
SMILDEEGPEGLTQFLMTEVRRRLREARKSQLQREQQLQARGRVLEERAGLEQRLRDQQQ  
AQERCQRLREDWEAGSLELLRLKDENYMIAMRLAQLSEEKNSAVLRSRDLQLAVDQLKLK  
VSRLEECCALLRRARGPPPGAAEEKEKEKEKEPDNDVLVSELRAENQRLTASLRELQEG  
LQQEASRPGAPGSEIRILLDILEHDWREAQDSRQELCQKLHAVQGELQWAEELRDQYLQEM  
EDLRLKHRTLQKDCDLYKHRMATVLAQLEEIEKERDQAIQSRDRIQLQYSQSLIEKDQYR  
KQVRGLEAERDELLTTLTSLEGTALLEVQLQRAQGGTCLKACASSHSLCSNLSSTWSLS  
EFPSPLGGPEATGEAAVMGGPEPHNSEEATDSEKEINRLSILPFPSAGSILRRQREEDP  
APPKRSFSSMSDITGSVTLKPWSPGLSSSSSSDSVWPLGKPEGLLARGCGLDFLNRSLAI  
RVSGRSPPGGPEPQDKGPDGLSFYGDRWSGAVVRRVLSGPGSARMEPREQRVEAAGLEGA  
CLEAEAQQRTLLWNQGSTLPSLMSKACQSFHEALEAWAKGPGAEPFYIRANLTLPERAD  
PHALCVKAQEILRLVDSAYKRRQEWFCFTRVDPLTLRDLDRGTVPNYQRAQQLLEVQEKCL  
PSSRHRGPRSNLKKRALDQLRLVRPKPVGAPAGDSPDQLLEPCAEPERSLRPYSLVRL  
LVSAIRPVVLLPECLAPRLIRNLLDLSSRLDFQVCPAESLSGEELCPSSAPGAPKAQPA  
TPGLGSRIRAIQESVGKKHCLLELGARGVRELQNEIYPIVIHVEVTEKNVREVRGLLGR  
PGWRDSELLRQCRGSEQVLWGLPCSWVQVPAHEWGHAEELAKVVRGRILQEQRALVWVEC  
GSSRGCPSSSEA

>sp|P57730|CARD18\_HUMAN Caspase recruitment domain-containing protein 18 OS=Homo sapiens  
GN=CARD18 PE=1 SV=1

MADQLLRKKRRIFIHSGAGTINALDCLLEDEVISQEDMNKVRDENDTVMDKARVLIDL  
VTGKGPKSCKFKIKHLCEEDPQLASKMGLH

>sp|P29466|CASP1\_HUMAN Caspase-1 OS=Homo sapiens GN=CASP1 PE=1 SV=1

MADKVLKEKRKLFIRSMGEGTINGLLDELLQTRVLNKEEMKVKRENATVMDKTRALIDS  
VIPKGAQACQICITYICEEDSYLAGTLGLSADQTSNGYLNMQDSQGVLSFPAPQAVQDN  
PAMPTSSGSEGNVKLCSLEEAQRIWKQKSAEIYPIMDKSSRTRLALIIICNEEFDSIPRRT  
GAEVDITGMTMLLQNLGYSVDVKKNLTASDMTTELEAFADRPEHKTSDFLVFMSHGIR  
EGICGKKHSEQVPDILQLNAIFNMLNTKNCPSLKDKPKVIIIQACRGDSPGVVWFKDSVG  
VSGNLSLPTTEEFEDDAIKKAHIEKDFIAFCSSTPDNVSWRHPTMGSVFIGRLIEHMQEY  
ACSCDVEEIFRKVRFSFEQPDGRAQMPTTERTVTLTRCFYLFPGH

>sp|P42575|CASP2\_HUMAN Caspase-2 OS=Homo sapiens GN=CASP2 PE=1 SV=2

MAAPSAGSWSTFQHKELMAADRGRRLGVCGMHPHHQETLKKNRVVLAKQLLSELLEHL  
LEKDIITLEMRELIAKVGFSQNVELLNLLPKRGPQAFDAFCEALRETKQGHLEDMLLT  
TLGSLQHVLPLSCDYDLSLFPVCECPLYKKLRLSTDVTEHSLDNKDGVPCLQVKPCT  
PEFYQTHFQLAYRLQSRPRGLALVLSNVHFTGEKELEFRSGGDVDHSTLVTLFKLLGYDV  
HVLCDQTAQEMQEKLQNFALPAHRVTDSCIVALLSHGVEGAIYVDGKLLQLQEVFQLF  
DNANCPSLQNKPKMFFIIQACRGDETDGVDQDQGNHAGSPGCEESDAGKEKLPKMRLPT  
RSDMICGYACLKGTAAMRNTRKGSWYIEALAQVFSERACDMHVADMLVKVNALIKDREGY  
APGTEFHRCKEMSEYCSLTLRHLVLPFGHPPT

>sp|P55212|CASP6\_HUMAN Caspase-6 OS=Homo sapiens GN=CASP6 PE=1 SV=2

MSSASGLRRGHPAGGEENMTETDAFYKREMFDAEKYKMDHRRRGIALIFNHERFFWHLT  
LPERRGTCADRDNLTRRFSDLGFEVKCFNDLKAEEELLLKIEHVSTVSHADADCFVCVFLS  
HGEGNHIYAYDAKIEIQTLTGLFKGDKCHSLVGKPKIFIIQACRGNQHDVPVIPLDVVDN  
QTEKLDNITEVDAASVYTLPAGADFLMCYSVAEGYYSHRETVNGSWYIQDLCEMLGKYG  
SSLEFTELLTLVNRKVSQRRVDFCKDPSAIGKKQVPCFASMLTKKLHFFPKSN

>sp|Q86V15|CASZ1\_HUMAN Zinc finger protein castor homolog 1 OS=Homo sapiens GN=CASZ1 PE=1  
SV=4

MDLGTAEGRCTDPPAGKPAMAPKRKGGLKLNCAKLSRQVVVEKRADAGSHTEGSPSQ  
PRDQERSGPESGAARAPRSEEDKRRAVIEKWNGEYSEEPAPTPVLGRIAREGLELPPEG  
VYMQPQGCSDEEDHAEPSKDGGALEEKDSGAASKEDSGPSTRQASGEASSLRDYAAS  
TMTEFLGMFGYDDQNTREDELARKISFEKLHAGSTPEAATSSMLPTSEDTLSCRARFSKYE  
EYIRKLKAGEQLSWPAPSTKTEERVGKEVVGTLPLGLRPSSTAHLETKATILPLPSHSSV  
QMQLNVARASKYDFFIQKLKTGENLRPQNGSTYKKPSKYDLENVKYLHLFKPGEGSPDMG  
GAIAFKTGKVGPRSKYDVRGIQKPGPAKVPPTPSLAPAPLASVPSAPSAPGPGPEPPASL  
SFNTPEYLKSTFSKTDSTTTGTSTVTKNGLPTDKPAVTEDEVNIYQKYIARFSGSQHCGHI  
HCAYQYREHYHCLDPECNYQRFTSKQDVIRHYNMHKKRDNSLQHGFMRFSPLDDCSVYYH  
GCHLNGKSTHYHCMQVGCNKVYTSTSDVMTHENFHKNTQLINDGFQRFATEDCGTADC  
QFYGQKTTHFHCRPGCTFTFNKCDIEKHKSYYHIKDDAYAKDGFKKFYKYECKYEGCV  
YSKATNHFHCIRAGCGFTFTSTSQMTSHKRKHERRHIRSSGALGLPPSLLGAKDTEHEES  
SNDDLVDFSALSSKNSSLSASPTSQQSSASLAAATAATEAGPSATKPPNSKISGLLPQGL  
PGSIPLALALSNSGLPTPTPYFPILAGRGSTSLPVGTPSLLGAVSSGSAASATPDTPTLV  
ASGAGDSAPVAAASVPAPPASIMERISASKGLISPMARLAAAALKPSATFDPGSGQQT  
PARFPPAQVKPEPGESTGAPGPHEASQDRSLDLTVKEPSNESNGHAVPANSSLLSSLMNK  
MSQGNPGLGSLNIAEAGSPAEPSPFLGKAVKALVQEKLAEPWKVYLRRFGTKDFCD  
GQCDFLHKAHFHCVVEECGALFSTLDGAIKHANFHFRTGGAAGNTEAAFPASAAETKP  
PMAPSSPPVPVTTATVSSLEGAPSPASVPSTPTLLAWKQLASTIPQMPQIPASVPHLP  
ASPLATTSLENAKPVKPGFLQFQENDPCLATDCKYANKFHFHCLFGNCKYVCKTSGKAE  
SHCLDHINPNNLVNVRDQFAYYSLQCLCPNQHCEFRMRGHYHCLRTGCYFVTNITTKLP  
WHIKKHEKAERRAANGFYFTKREECGRLGCKYNQVNSHFHCIREGCQFSLLKHQMTSH  
ARKHMRMLGKNFDRVPPSQGPPGLMDAETDECMDYTGCSPGAMSSSESSTMDRSCSSTPV  
GNESTAAGNTISMPTASGAKKRFWIIEDMSPFGKRRKTASSRKMLDEGMMLEGFRFDLY  
EDCKDAACQFSLKVTHYHCTRENCGYKFCGRTHMYKHAQHHDVDNLVLDDFKRFKASLS  
CHFADCPFSGTSTHFHCLRCRFRCTDSTKVTahrKHHGKQDVISAAGFCQFSSSADCAVP  
DCKYKLKCSHFHCTFPGCRHTVVGMSQMDSHKRKHEKQERGEPAEAGPAPGPPISLDGSL  
SLGAEPGSLFLQSAAGLGLALGDAGDPPDAAAPGPREGAAAAAAGESSQEDEEE  
ELELPEEEAEDDEDEDDDDDEDDDDDEDLRTDSEESLPEAAAAEAGAGARTPAL  
AALAALGAPGPAPTAASSP

>sp|P04040|CATA\_HUMAN Catalase OS=Homo sapiens GN=CAT PE=1 SV=3

MADSRDPASDQMHWKEQRAAQKADVLTTGAGNPVGDKLNVITVGPRGPLLVQDVVFTDE  
MAHFDREIRIPERVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGES  
GSADTVRDPRGFAVKFYTEDGNWDLVGNNTPIFFIRDPILFSPFIHSQKRNPQTHLKDPD  
MVWDFWSLRPESLHQVSFLFSDRGIPDGRHMNGYGSHTFKLVNANGEAVYCKFHYKTDQ  
GIKNLSVEDAARLSQEDPDYGIKDLFNAIATGKYPSWTFYIQVMTFNQAETFPFNPFDLT  
KVWPHKDYPLIPVGKLVLRNPVNYFAEVEQIAFDPSNMPPGIEASPDKMLQGRLFAYPD

THRRLGPNYLHIPVNCYPYRARVANYQRDGPQMCDNQGGAPNYYPNISFGAPEQQPSALE  
HSIQYSGEVRRFNTANDDNVTQVRAFYVNVLNEEQRKRLCENIAGHLKDAQIFIQKKAVK  
NFTVEVHPDYGSHIQALLDKYNAEKPKNAIHTFVQSGSHLAAREKANL

>sp|Q7Z7H3|CATIP\_HUMAN Ciliogenesis-associated TTC17-interacting protein OS=Homo sapiens  
GN=CATIP PE=1 SV=1

MSSKVYSTGSRADKHQPSGPECLPLPEANAEIDFLSSLHKEELQMLFFSETLAMVSDTG  
EPQGELTIEVQRGKYQEKLGMLTYCLFVHASSRGFLDKMLCGNSLLGYLSEKLELMEQHS  
QDFIKFLILPMERKMSLLKQDDQLAVTRSIKEGEEVKTGVTSPWSSIKGFISEAANLVL  
LRVMAWRRMVPSNARFLTLDTEGKLCYLTYNLGFQTIQVDHQQAEVFIVEQTVHAEEGI  
PMSQYYLLSDGHLAKRIQVGSPGCCITKMPILREDEIEPRPVFEKKPLVWEEDMELY  
SKFLDRKEELRLGHASYLRQHPEAHALISDFLLFLLLRQPEDVVTFAAEFFGPFDPWRPS  
SPALGSSHRPNPFRSLEPEGDARSGAA

>sp|Q8IU8|CBLN2\_HUMAN Cerebellin-2 OS=Homo sapiens GN=CBLN2 PE=2 SV=1

MQAPGRGPLRLMMPGRRGALREPGGCGSLGVALALLLLLPACCPVRAQNDTEPIVL  
EGKCLVVCSSPSADGAVTSSLGISVRSGSAKVAFSATRSTNHEPSEMSNRTMTIYFDQV  
LVNIGNHFDLASSIFVAPRKGISFSFHVVKVYNRQTIQVSLMQNGYPVISAFAGDQDVT  
REAASNGVLLMEREDKVHLKLERGNLMGGWKYSTFSGFLVFPL

>sp|Q8N5N4|CC022\_HUMAN Uncharacterized protein C3orf22 OS=Homo sapiens GN=C3orf22 PE=2  
SV=1

MDSSACKKSHQSKKWRIQAQENFAKKFPYRLSWLTEPDPEPLQPWEVTNDSNTVQLPLQK  
RLVPTRSIPVRGLGAPDFTSPSGSCPAPLPAPSPPLCNLWELKLLSRRFPRQLAFLST  
RHTEAACPQTSKAAGLSRGLS

>sp|O96020|CCNE2\_HUMAN G1/S-specific cyclin-E2 OS=Homo sapiens GN=CCNE2 PE=1 SV=1

MSRRSSRLQAKQPPQPSQTESPQEAQIIQAKKRKTTQDVKKRREEVTKKHQYEIRNCWPP  
VLGGISPCIIETPHKEIGTSDFSRFTNYRFKNLFINPSPLPDLSWGCSKEVWLNMLKK  
ESRYVHDKHFEVLHSDLEPQMRSILLDWLLEVEVYTLHRETFYLAQDFDRFMLTQKDI  
NKNMLQLIGITSLFIASKLEEIYAPKLQEFAYVTDGACSEEDILRMELIILKALKWELCP  
VTIISWLNLFQVDALKDAPKLLPQYSQETFIQIAQLLDLCILADSLEFYRILTAAA  
LCHFTSIEVVKKASGLEWDSISECVDWMVPFVNVKSTSPVKLKTFFKIPMEDRHNIQTH  
TNYLAMLEEVNYINTFRKGGQLSPVCNGGIMTPPKSTEKPPGKH

>sp|Q96S94|CCNL2\_HUMAN Cyclin-L2 OS=Homo sapiens GN=CCNL2 PE=1 SV=1

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FTPSMSSGLDTEDETDLRVVGCELIQAAGILLRLPQVAMATGQVLFQRFFYTKSFVKHSM  
EHVSMACVHLASKIEEAPRRIRDVINVFHRLRQLRDKKKVPPLLDQDYVNLKNQIIKAE  
RRVLKELGFCVHVHHPHKIIVMYLQVLECERNQHLVQTSWNYMNSLRTDVFVRFQPESI  
ACACIYLAARTLEIPLPNRPHWFLFGATEEEIQEICKILQLYARKKVDLTHLEGEVEK  
RKHAIEEAKAQARGLLPGGTQVLDGTSGFSPAPKLVESPKGKGSKPSPLSVKNTKRRLE  
GAKKAKADSPVNGLPKGRESRSRSREQSYRSRSPRSASPKRKSDSGSTSGGSKSQSR  
SRSRSDSPPRQAPRSAPYKGEIRGSRKSKDCKYPQKPHKSRSSSSRSRSTRERADNP  
GKYKKKSHYYRDQRRERSRSYERTGRRYERDHPGHSRHR

>sp|O60563|CCNT1\_HUMAN Cyclin-T1 OS=Homo sapiens GN=CCNT1 PE=1 SV=1

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TAIVYMHRFYMIQSFTQFPGNSVAPAALFLAAKVEEQPKLEHVIVKVAHTCLHPQESLPD  
TRSEAYLQQVQDLVILESIILQTLGFELTIDHPHTHVVKCTQLVRASKDLAQTSYFMATN

SLHLTTFSLQYTPPVVACVCIHLACKWSNWEIPVSTDGKHWWVEYVDATVTLELLDELTHE  
FLQILEKTPNRLKRIWNWRACEAAKKTAKADDRGTDEKTSEQTILNMISQSSSDTTIAGLM  
SMSTSTTSAPVPSLPVSESSSNLTSVEMLPGKRWLSSQPSFKLEPTQGHRTSENALTGV  
DHSLPQDGSNAFISQKQNSKSVPSAKVSLKEYRAKHAEELAAQKRQLENMEANVKSQYAY  
AAQNLLSHHDSHSSVILKMPIEGSENPERPFLEKADKTALKMRIPVAGGDKAASSKPEEI  
KMRIKVHAAADKHNSVEDSVTKSREHKEKHKTHPSNHHHHHHNHHSHKSHS SQLPVG TGNK  
RPGDPKHSSQTSNLAHKTYLSSSFSSSSSTRKRPSEETGGAVFDHPAKIAKSTKSSSL  
NFSFPLPTMGQMPGHSSDTSGLSFSQPSCKTRVPHSKLDKGPTGANGHNTTQTIDYQDT  
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LPPLPK

>sp|Q8ND76|CCNY\_HUMAN Cyclin-Y OS=Homo sapiens GN=CCNY PE=1 SV=2

MGNTTSCCVSSSPKLRRNAHSRLESYRPD TDSREDTGCNLQHISDRENIDDLNMEFNPS  
DHPRASTIFLSKSQTDVREKRKSLFINHHPGQIARKYSSCSTIFLDDSTVSQPNLYTI  
KCVALAIYYHIKNRDPDGRMLLDIFDENLHPLSKSEVPPDYDKHNPEQKQIYRFVRTLFS  
AAQLTAECAIVTLVYLERLLTYAEIDICPANWKRIVLGAILLASKVWDDQAVWNVDYQCI  
LKDITVEDMNERLQFLELLQFNINVPSSVYAKYYFDLRS LAEANNLSFPLEPLSRERAH  
KLEAISRLCEDKYKDLRRSARKRSASADNLTLRWSPAIIIS

>sp|O14618|CCS\_HUMAN Copper chaperone for superoxide dismutase OS=Homo sapiens GN=CCS  
PE=1 SV=1

MASDSGNQGTLCLEFAVQMTCSQCVDAVRKSLQGVAGVQDVEVHLEDQMVLVHTTLPSQ  
EVQALLEG TGRQAVLKGMSGQLQNLGA AVAILGGPGTVQGVVRFLQLTPERCLIEGTID  
GLEPGLHGLHVHGYGDLTNNCNSCGNHFNPDGASHGGPQSDRHRGDLGNVRADADGRAI  
FRMEDEQLKVWDVIGRSLI IDEGEDDLGRGGHPLSKITGNSGERLACGI IARSAGLFQNP  
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>sp|Q8N7R7|CCYL1\_HUMAN Cyclin-Y-like protein 1 OS=Homo sapiens GN=CCYL1 PE=1 SV=2

MGNTLTCCVSPNASPKLGRRAGSAELYCASDIYEAVSGDAVAVAPAVVEPAELDFGEGEG  
HHLQHISDREMPEDLALESNPSDHPRASTIFLSKSQTDVREKRKSNHLNHVSPGQLTKKY  
SSCSTIFLDDSTVSQPNLRTTVKCVTLAIYYHIKNRDANRSLDIFDERSHPLTREKVPEE  
YFKHDPCHKFIYRFVRTLSAAQLTAECAIVTLVYLERLLTYAEIDICPTNWKRIVLGAI  
LLASKVWDDQAVWNVDYQCI LK DITVEDMNERHFLELLQFNINVPASVYAKYYFDLRS  
LADDNNLNLFLFAPLSKERAQNL EATSR LCEDKDL CRAAMRRSFSADNFIGIQRSKAILS

>sp|Q8IY42|CD019\_HUMAN Uncharacterized protein C4orf19 OS=Homo sapiens GN=C4orf19 PE=1  
SV=1

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SKKTESSSRTADPWPCWPHQGPLPQGDAGGEHHACGVNGIGPAATPQPTGNSSPTQDDR  
GSWASTANTVPPTQPFLEGGGTRKQDCVLLASEGTQVMRNGDSRAPSEAESFALEVQDHV  
FQIPAPDYLQHWGPAGDNVDHNEKDCVFNHTEDESLEGIQPPVGEHGLNTPFSVRRSWD  
SLNEDVETEVLSICFNEKGPVHAMPVVDSGNRQEDTHGSDGDGDGEIVDEDA AVAEALAA  
LEAATAGEDLDET D

>sp|P06127|CD5\_HUMAN T-cell surface glycoprotein CD5 OS=Homo sapiens GN=CD5 PE=1 SV=2

MPMGSLQPLATLYLLGMLVASCLGRLSWYDPDFQARLTRSNSKCQGLLEVYLKDGWHMVC  
SQSWGRRSSKQWEDPSQASKVCQRLNCGVPLSLGPFLVYTPQSSIICYGQLGSFSNCSHS  
RNDMCHSLGLTCLEPQKTTPTTPPTPTTPEPTAPPRLQLVAQSGGQHCAGVVEFYSGS  
LGGTISYEAQDKTQDLENFLCNNLQCGSFLKHLPETEAGRAQDPGEPREHQPLPIQWKIQ



NSSCTSLEHCFRKIKPKQKSGRVLALLCSGFQPKVQSRLVGGSSICEGTVEVRQGAQWAAL  
CDSSSARSSLRWEEVCREQQCGSVNSYRVLDAGDPTSRGLFCPHQKLSQCHELWERNSYC  
KKVFTVCQDPNPAGLAAGTVASIIILALVLLVLLVVCPLAYKKLVKKFRQKKQRQWIGP  
TGMNQNSFHRNHTATVRSHAENPTASHVDNEYSQPPRNSHLSAYPALEGALHRSSMQPD  
NSSDSYDLHGAQRL

>sp|Q99618|CDCA3\_HUMAN Cell division cycle-associated protein 3 OS=Homo sapiens GN=CDCA3  
PE=1 SV=1

MGSAKSVPTPARPPPHNKLARVADPRSPSAGILRTPIQVESSQPGLPAGEQLEGLKH  
AQSDPRSPTLGIARTPMKTSSGDPPSPLVKQLSEVFETEDSKSNLPPEPVLPEAPLSS  
ELDLPLGTQLSVEEQMPPWNQTEFPSKQVFSKEEARQPTETPVASQSSDKPSRDPETPRS  
SGSMNRNWKPNSSKVLGRSPLTILQDDNSPGTLTLRQGKRPSPLENVSELKEGAILGTG  
RLKLTGGRAWEQQDHDKENQHFLVES

>sp|Q9BWT1|CDCA7\_HUMAN Cell division cycle-associated protein 7 OS=Homo sapiens GN=CDCA7  
PE=1 SV=1

MDARRVPQKDLRVKKNLKKFRYVKLISMETSSSSDDSCDSFASDNFANTRLQSVREGCRT  
RSQCRHSGPLRVAMKFPARSTRGATNKAESRQPSSENSVTDNSDSEDESGMNFLEKRAL  
NIKQNKAMLAKLMSELESFPGSFRGRHPLPGSDSQSRRPRRRTFPGVASRRNPERRARPL  
TRRSRILGSLDALPMEEEEEEDKYMLVRKRKTVDGYMNEDDLPRRRSRSSVTLPHIIR  
PVEEITEEELNVCNSREKIYNRSLGSTCHQCRQKTIDTKNCRNPDCWVGQGFCGPC  
LRNRYGEEVRDALDPNWHCPPCRGICNCSFCRQRDGRCATGVLVYLAKYHGFNVHAYL  
KSLKQEFEMQA

>sp|Q15131|CDK10\_HUMAN Cyclin-dependent kinase 10 OS=Homo sapiens GN=CDK10 PE=1 SV=1

MAEPDLECEQIRLKCIRKEGFFTPPEHRLGRCRSVKEFEKLNRIEGTYGIVYRARDTQ  
TDEIVALKKVRMDKEKDGIPISSLREITLLLRLRHPNIVELKEVVVGNHLESIFLVMGYC  
EQDLASLLENMPTPFSEAQVKCIVLQVLRGLQYLHRNFIHRDLKVSNNLMTDKGCVKTA  
DFGLARAYGVPVKPMPKVVTLWYRAPELLLGTQTTSIDMWAVGCILAELLAHRPLLP  
GTSEIHQIDLIVQLLGTPSENIWPFGSKLPLVGQYSLRKQPYNNLKHKFPWLSEAGLRLL  
HFLFMYDPKKRATAGDCLESSYFKEKPLPCEPELMPTFPHRNKRAAPATSEGQSKRCKP

>sp|Q14004|CDK13\_HUMAN Cyclin-dependent kinase 13 OS=Homo sapiens GN=CDK13 PE=1 SV=2

MPSSSDTALGGGGGLSWAEKKLEERRKRRRFLSPQQPPLLLPLLQPQLLQPPPPPPPLLF  
LAAPGTAAAAAAAASSSCFSPGPPLEVKRLARGKRRAGGRQKRRRGPRAGQAEKRRV  
FSLPQPQDGGGGASSGGGVTPLVEYEDVSSQSEGLLLGGASAATAATAAGGTGGSGGS  
PASSSGTQRRGESEERRRRDRSSSGRSKERHREHRRRDGQRGGSEASKSRSRHSHSGE  
ERAEVAKSGSSSSSGRRKSASATSSSSSRKDRDSKAHRSRTKSSKEPPSAYKEPPKAY  
REDKTEPKAYRRRRSLSPGGRDDSPVSHRASQSLRSRKSPSPAGGGSPYSRRLPRSPS  
PYSRRRSPSYSRHSSYERGGDVSPSPYSSSWRRSRSPYSPVLRSGKSRSRSPYSSRHS  
RSRSHRLSRSRSHSSISPSTLTLSLAAELNKNKKARAAEAARAAEAKAAEATKAA  
EAAAKAAKASNTSTPTKNTETSASASQTNHVKDVKKIKIEHAPSPSSGGTLKNDKATK  
PPLQVTKVENNLIVDKATKAVIVGKESKSAATKEESVSLKEKTKPLTPSIGAKEKEQHV  
ALVTSTLPPLPLPMLPEDKEADSLRGNISVKAVKKEVEKKLRCLLADLPLPELPGDD  
LSKSPEEKKTATQLHSKRRPKICGPRYGETKEKDIDWGKRCVDKFDIIGIIGEGTYGQVY  
KARDKDTGEMVALKKVRLDNEKEGFPITAIREIKILRQLTHQSIINMKEIVTDKEDALDF  
KKDKGAFYLVFEYMDHDLMLGLESGLVHFNENHIKSFMRQLMEGLDYCHKKNFLHRDIKC  
SNILLNNRGQIKLADFGLARLYSSEESRPYTNKVITLWYRPELLLGEERYTPAIDVWSC

GCILGELFTKKPIFQANQELAQLELISRICGSPCAVWPDVIKLPYFNTMKPKKQYRRKL  
REEFVFIPAAALDLFDYMLALDPSKRCTAEQALQCEFLRDVEPSKMPPDLPLWQDCHL  
WSKKRRRQKQMGMTDDVSTIKAPRKDLSGLDDSRNTNPQGVLPSSQLKSQSSNAPVK  
TGPQGHLNHELAILLNLLQSKTSVNMAFVQVLNIKVNSETQQQLNKINLPAGILATGE  
KQTDPTPQQESSKPLGGIQPSSQTIQPKVETDAAQAAVQSAFAVLLTQLIKAQQSKQKD  
VLLEERENGSGHEASLQLRPPPEPSTPVSGQDDLIQHQMRIELTPEPDRPRILPPDQR  
PPEPPEPPPVTEEDLDYRTENQHVPPTSSSLTDPHAGVKAALLQLLAQHQPQDDPKREGG  
IDYQAGDTYVSTSDYKDNFGSSSFSSAPYVSNGLGSSSAPPLERRSFIGNSDIQSLDNY  
STASSHSGGPPQPSAFSESFPSSVAGYGDYLNAGPMLFSGDKDRFEYSHGPIAVLANS  
SDPSTGPSTHPLPAKMHNINYGGNLQENPSGSPSLMHGQTTWSPAQGPQGYSGYRGHIST  
STGRGRGRGLPY

>sp|Q07002|CDK18\_HUMAN Cyclin-dependent kinase 18 OS=Homo sapiens GN=CDK18 PE=1 SV=3

MNMKNFKRRFSLSPRTETIEESLAEFTEQFNQLHNRNENLQLGPLGRDPPQECSTFS  
PTDSGEEPQGLSPGVQFQRRQNQRRFSMEDVSKRLSLPMDIRLPQEFLQKLQMESDLPK  
PLSRMSRRASLSDIGFGKLETYVKLDKLGEGTYATVFKGRSKLTENLVALKEIRLEHEEG  
APCTAIREVSLLKNLKHANIVTLHDLIHTDRSLTLVFEYLDSDLKQYLDHCGNLMSMHNV  
KIFMFQLRLGLAYCHHRKILHRDLKPQNLLINERGELKLADFGLARAKSVPTKYSNEVV  
TLWYRPPDVLGSTEYSTPIDMWGVGCIHYEMATGRPLFPGSTVKEELHLIFRLLGTPTE  
ETWPGVTAFSEFRYSFPCYLPQPLINHAPRLDTDGIHLLSSLLYESKSRMSAEALSH  
SYFRSLGERVHQLEDTASIFSLKEIQLQKDPGYRGLAFQQPGRGKNRRQSIF

>sp|Q5VV42|CDKAL\_HUMAN Threonylcarbamoyladenine tRNA methyltransferase OS=Homo sapiens GN=CDKAL1 PE=1 SV=1

MPSASCDTLDDIEDIVSQEDSKPQDRHFVRKDVVPKVRNRNTQKYLQEEENSPPSDSTI  
PGIQKIWIRTWGCSHNNSDGEYMAGQLAAYGYKITENASDADLWLLNSCTVKNPADHFR  
NSIKKAQEENKKIVLAGCVPQAQPRQDYLGSLIIGVQQIDRVVEVVEETIKGHSVRLLG  
QKKDNGRRLGGARLDLPKIRKNPLIEIISINTGCLNACTYCKTKHARGNLASYPIDELVD  
RAKQSFQEGVCEIWLTS EDTGAYGRDIGTNLPTLLWKLVEVIPEGAMRLGMTNPPYILE  
HLEEMAKILNHPVYAFLHIPVQSASDSVLMEMKREYCVADFVRVDFLKEKVPGITIAT  
DIICGFPGETDQDFQETVKLVEEYKFPSLFINQFYPRPGTPAAKMEQVPAQVKKQRTKDL  
SRVFHSYSPYDHKIGERQQVLVTEESFDSKFYVAHNQFYEQVLVPKNPAFMGKMVEVDIY  
ESGKHFMMKGQPVSDAKVYTPSISKPLAKGEVSGLTKDFRNLGNQLSSGSHTSAASQCDS  
ASSRMVLPMPRLHQDCALRMSVGLALLGLLFAFFVKVYN

>sp|O76039|CDKL5\_HUMAN Cyclin-dependent kinase-like 5 OS=Homo sapiens GN=CDKL5 PE=1 SV=1

MKIPNIGNVMNKFEILGVVGEAYGVVLKCRHKETHEIVAIAKKFKDSEENEEVKETTLRE  
LKMLRTLKQENIVELKEAFRRRGKLYLVFEYVEKNMLELLEEMPNGVPPEKVKSYIYQLI  
KAHWHCHKNDIVHRDIKPENLLISHNDVLKLCDFGFARNLSEGNANYTEYVATRWYRSP  
ELLLGAPYGKSVDMWVSGCILGELSDGQPLFPGESEIDQLFTIQKVLGPLPSEQMKLFYS  
NPRFHGLRFPVNHQPSLERRYLGILNSVLLDLMKNLLKLDPADRYLTEQCLNHPTFTQTQ  
RLLDSPSRSAKRKPYHVESSTLSNRNQAGKSTALQSHHRSNSKDIQNLSVGLPRADEGL  
PANESFLNGLAGASLSPLHTKTYQASSQPGSTSKDLTNNNIPHLLSPKEAKSKTEFDNF  
IDPKPSEPGGTKYLSNSRSQQNRHSFMESSQSKAGTLQPNEKQSRHSYIDTIPQSSRSP  
SYRTKAKSHGALSDSKSVSNLSEARAQIAEPSTSRYFPSSCLDLNSPTSPTPTRHSDTRT  
LLSPSGRNNRNEGTLDSRRTTTRHSKTMEELKLEPHMDSHSHLSAPHESFSYGLGYTS  
PFSSQQRPHRHSYVTRDKVRAGLDGSLSIGQGMAARANSLLSPQPGEQLPPEMTVA

RSSVKETSREGTSSFHTRQKSEGGVYHDPHSDDGTPAKENRHLYNPVPRRVGSFYRVPS  
PRPDNSFHENNVSTRVSSLPSESSSGTNHSCRQPAFDPWKSPENISHSEQLKEKEKQGFF  
RSMKKKKKKSQTVPNSDSPDLLTLQKSIHSASTPSSRPKEWRPEKISDLQTSQPLKSLR  
KLLHLSSASNHPASSDPRFQPLTAQQTKNSFSEIRIHPLSQASGGSSNIRQEPAPKGRPA  
LQLPDGGCDGRRQRHHSGPQDRRFMLRTTEQQGEYFCCGDPKKPHTPCVPNRLHRPISS  
PAPYPVLQVRGTSMCPTLQVRGTDAFSCPTQQSGFSFFVRHVMREALIHRAQVNQAALLT  
YHENAALTGK

>sp|P46527|CDN1B\_HUMAN Cyclin-dependent kinase inhibitor 1B OS=Homo sapiens GN=CDKN1B  
PE=1 SV=1

MSNVRVSNGLPSLERMDARQAHPKPSACRNLFPGVDHEELTRDLEKHCRDMEEASQRKW  
NFDQNHKPLEGKYEWQEVEKGSLEPFYRPPRPPKGACKVPAQESQDVSGSRPAAPLIG  
APANSEDLHLVDPKTDPSDSQTGLAEQCAGIRKRPATDDSSSTQNKRRANTEENVSDGSPN  
AGSVEQTPKKPGLRRRQT

>sp|P42773|CDN2C\_HUMAN Cyclin-dependent kinase 4 inhibitor C OS=Homo sapiens GN=CDKN2C  
PE=1 SV=1

MAEPWGNELASAAARGDLEQLTSLLQNNVNVNAQNGFGRTALQVMKLGNPEIARRLLLRG  
ANPDLKDRTGFAVIHDAARAGFLDTLQTLLEFQADVNIEDNEGNLPLHLAAKEGHLRVVE  
FLVKHTASNVGHRNHKGDTACDLARLYGRNEVVSLMQANGAGGATNLQ

>sp|Q8IU53|CASC2\_HUMAN Protein CASC2, isoforms 1/2 OS=Homo sapiens GN=CASC2 PE=4 SV=1  
MAGTRGLMLLGPVPVAGPRDVGTGRGRQMEIQKHKDNKKLPQGIIIVFRLQTHTPQIYT  
QLKGKLRKFFKEPYSE

>sp|O15234|CASC3\_HUMAN Protein CASC3 OS=Homo sapiens GN=CASC3 PE=1 SV=2

MADRRRQRASQDTEDEESGASGSDSGGSPLRGGGSCSGSAGGGGSGSLPSQRGGRTGALH  
LRRVESGGAKSAEESECESEDGIEGDAVLSDYESAEDSEGEEGEYSEEENSKVELKSEAN  
DAVNSSTKEEKGEKPDTKSTVTGERQSGDGQESTEPVENKVGGKGPKHLDDDEDKRNPA  
YIPRKLGF FEHDLRGQTQEEVEVRPKGRQRKLWKDEGRWEHDKFREDEQAPKSRQELIALY  
GYDIRSAHNPDDIKPRRIRKPRYGSPQRPDPNWNGERLNKSHRHQGLGGTLPPRTFINRN  
AAGTGRMSAPRNSRSGGFKERAGFRPVEAGGQHGGRSGETVKHEISYRSRRLEQTSVR  
DPSPEADAPVLGSPEKEEAASEPPAAAPDAAPPPDRPIEKKSYSRARRTRTKVGDAVKL  
AEEVPPPEGLIPAPPVPETTPPTKTGTWEAPVDSSTSGLEQDVAQLNIAEQNWSPGQ  
PSFLQPRELRGMPNHIHMGAGPPPQFNRMEEMGVQGGRAKRYSSQRQRPVPEPPAPPVHI  
SIMEGHYYDPLQFQGPITYTHGDSAPLPPQGMVLVQGMNLPHPGLHPHQTPAPLPNPGLY  
PPPVSMSPGQPPPQQLAPTYFSAPGVMNFGNPSYPYAPGALPPPPPHLYPNTQAPSQV  
YGGVTYYNPAQQVQPKPSPRRTPQPVTIKPPPEVVSRGSS

>sp|P42574|CASP3\_HUMAN Caspase-3 OS=Homo sapiens GN=CASP3 PE=1 SV=2

MENTENSVDSSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKSTG  
MTRSRTDVAANLRETFRNLYKEVRNKNDLTREEIVELMRDVSKEHRSKSSFVCVLLS  
HGEEGIIFGTNGPVDLKKITNFFRGDRCSLTGKPKLFIIQACRGTELDGIEGDSGVDD  
DMACHKIPVEADFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKQYADKLEFMHILTRVN  
RKVATEFESFSFDATFHAKKQIPICIVSMLTKELYFYH

>sp|P49662|CASP4\_HUMAN Caspase-4 OS=Homo sapiens GN=CASP4 PE=1 SV=1

MAEGNHRKKPLKVLESLGKDFLTGVLDNLVEQNVNLNWKEEEKKKYYDAKTEDKVRVMADS  
MQEKQRMAGQMLLTFFNIDQISPNNKAHPNMEAGPPESGESTDALKLCPHEEFLRLCKE  
RAEEIYPIKERNNRTRLALICNTEFDHLPPRNGADFDTGMKELLEGLDYSVDVEENLT

ARDMESALRAFATRPEHKSSDSTFLVLM SHGILEGICGTVHDEKKPDVLLYDTIFQIFNN  
RNCLSLKDKPKV IIVQACRGANRGELWVRDSPASLEVASSQSSSENLEEDAVYKTHVEKDF  
IAFCSSTPHNVSWRDSTMGSIFITQLITCFQKYSWCCHLEEVFRKVQQSFETPRAKAQMP  
TIERLSMTRYFYLFPGN

>sp|P55210|CASP7\_HUMAN Caspase-7 OS=Homo sapiens GN=CASP7 PE=1 SV=1  
MADDQGCIEEQGVEDSANEDSVDAKPDRSSFVPSLFSKKKKNVTMRSIKTTRDRVPTYQY  
NMNFEKLGKCI IINNKNFDKVTGMGVRNGTDKDAEALFKCFRSLGFDVIVYNDSCAKMQ  
DLLKKASEEDHTNAACFACILLSHGEENV IYKDGVTPIKDLTAHFRGDRCKTLLEKPKL  
FFIQACRGTELDDGIQADSGPINDTDANPRYKIPVEADFLFAYSTVPGYYSWRSPGRGSW  
FVQALCSILEEHGKDLEIMQILTRVNDRVARHFESQSDDPHFHEKKQIPCVVSMLTKELY  
FSQ

>sp|Q14790|CASP8\_HUMAN Caspase-8 OS=Homo sapiens GN=CASP8 PE=1 SV=1  
MDFSRNLYDIGEQLDSEDLASLKFLSLDYIPQRKQEP IKDALMLFQRLQEKRMLEESNLS  
FLKELLFRINRLDLLITYLNTRKEEMERELQTPGRAQISAYRVMLYQISEEVSRSSELRSF  
KFLQEEISKCKLDDMNLLDIFIEMEKRV ILGEGKLDILKRVCAQINKSLLKI INDYEE  
FSKERSSSLEGGSPDEFSGEELCGVMTISDSPREQDSESQTL DKVYQMKSKPRGYCLIIN  
NHNFAKAREKVPKLHSIRDNRNGTHLDAGALTTFEELHFEIKPHDDCTVEQIYEILKIYQ  
LMDHSNMDCFICCLSHGDKGIIYGTGQEAPIYELTSQFTGLKCPSLAGKPKVFFIQAC  
QGDNYQKGIPVETDSEEQPYLEMDLSSPQTRYIPDEADFLGMATVNNCVSYRNPAEGTW  
YIQSLCQSLRERCPRGDDILTILTEVNYEVSNKDDKKNMGKQMPQPTFTLRKKLVFPSPD

>sp|P41180|CASR\_HUMAN Extracellular calcium-sensing receptor OS=Homo sapiens GN=CASR PE=1  
SV=2

MAFYSCCWVLLALTWHTSAYGPDQRAQKKGDI ILGGLFPIHFGVAAKDQDLKSRPESVEC  
IRYNFRGFRWLQAMIFAIEEINSSPALLPNLTLGYRIFDTCNTVSKALEATLSFVAQNKI  
DSLNLDEFCCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSSRLSNKNQF  
KSFLRTIPNDEHQATAMADIIEYFRWNWGTIAADDDYGRPGIEKFREEAEERDIDIFS  
ELISQYSDEEEIQHVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGKIWLASEAWA  
SSSLIAMPQYFHVVGGTIGFALKAGQIPGFREFLKKVHPRKSVHNGFAKEFWEEFTNCHL  
QEGAKGPLPVDFTLRGHEESGDRFSNSSTA FRPLCTGDENISSVETPYIDYTHLRISYNV  
YLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVLKHLRHLNFTNNMGEQVTFD  
ECGDLVGNYSIINWHLSPEDGSIVFKEVGYNVYAKKGERLFINEEKILWSGFSREVPFS  
NCSRCLAGTRKGIIEGEPTCCFECVECPDGEYSDETDASACNKPDDFWSNENHTSCIA  
KEIEFLSWTEPFGIALTLFAVLGIFLTAFLVGVFIKFRNTPIVKATNRELSYLLLFSLC  
CFSSSLFFIGEPQDWTCLRQPAFGISFVLCISCILVKTNRVLLVFEAKIPTSFHRKWWG  
LNLQFLLVFLCTFMQIVICVIWLYTAPPSSYRNQELEDEI IFITCHEGSLMALGFLIGYT  
CLLAAICFFF AFKSRKLPENFNEAKFITFSMLIFFIVWISFIPAYASTYGKFSAVEVIA  
ILAASFGLLACIFFNKIYIILFKPSRNTIEEVRCSTAAHAFKVAARATLRRSNVSRKRSS  
SLGGSTGSTPSSISSKSNEDEPFPQPERQKQQQLAL TQQEQQQQPLTL PQQQRSQQQP  
RCKQKVI FGSGTVTFSLSFDEPQKNAMAHNRNTHQNSLEAQKSSDTLTRHQPLLPLQCGE  
TDLDLTVQETGLQGPVGGDQRPEVEDPEELSPALVVSSSQSFVISGGGSTVTENVVNS

>sp|P07339|CATD\_HUMAN Cathepsin D OS=Homo sapiens GN=CTSD PE=1 SV=1  
MQPSSLLPLALCLLAAPASALVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVP  
AVTEGPIPEVLKNYMDAQYYGEIGIGTPPQCFTVVFDTGSSNLWVPSIHCKLLDIACWIH  
HKYNSDKSSSTYVKNGT SFDIHYGSGSLSGYLSQD TVSVPCQSASSASALGGVKVERQVFG

EATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQQKLVDQNIFSFYLSRDPDAQ  
PGGELMLGGTDSKYKGSLSYLNVTRKAYWQVHLDQVEVASGLTLCKEGCEAIVDTGTSL  
MVGPDDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAITLKLGGKGYKLSPEDYTLKVSQ  
AGKTLCLSGFMGMDIPPPSGPLWILGDVFIGRYYTVFDRDNNRVGFAEAARL

>sp|P08311|CATG\_HUMAN Cathepsin G OS=Homo sapiens GN=CTSG PE=1 SV=2

MQPLLLLLAFLLPTGAEAGEIIGGRESRPHSRPYMAYLQIQSPAGQSRCGGFLVREDFVL  
TAAHCWGSNINVTLAGHNIQRRENTQQHITARRAIRHPQYNQRTIQNDIMLLQLSRRVRR  
NRNVNPVALPRAQELRPGTLCTVAGWGRVSMRRGDTLREVQLRVQRDRQCLRIFGSYD  
PRRQICVGDRRERKAAAFKGDSSGPLLNNVAHGIVSYGKSSGVPPEVFTRVSSFLPWIRT  
TMRSFKLLDQMETPL

>sp|P51636|CAV2\_HUMAN Caveolin-2 OS=Homo sapiens GN=CAV2 PE=1 SV=2

MGLETEKADVQLFMDDSYSHSGLEYADPEKFADSDQDRDPHRLNSHLKLGFEVDIAEP  
VTTHSFDKVVICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVK  
TCLMVLPSVQTIWKSVDVIIAPLCTSVGRCFSSVSLQLSQD

>sp|Q9H9S4|CB39L\_HUMAN Calcium-binding protein 39-like OS=Homo sapiens GN=CAB39L PE=1  
SV=3

MKKMPLFSKSHKNPAEIVKILKDNLAILEKQDKKTDKASEEVSKSLQAMKEILCGTNEKE  
PPTEAVAQLAQELYSGLLVTLIADLQLIDFEGKKDVTQIFNNILRRQIGTRSPTVEYIS  
AHPHILFMLLKGYEAPQIALRCGIMLRECIRHEPLAKIILFSNQFRDFFKYVELSTFDIA  
SDAFATFKDLLTRHKVLVADFLEQNYDTIFEDYEKLLQSENYVTKRQSLKLLGELILDRH  
NFAIMTKYISKPENLKLMMNLLRDKSPNIQFEAFHVFKVFVASPHKTQPIVEILLKNQPK  
LIEFLSSFQKERTDDEQFADEKNYLIKQIRDLKKTAP

>sp|P15085|CBPA1\_HUMAN Carboxypeptidase A1 OS=Homo sapiens GN=CPA1 PE=1 SV=2

MRGLLVLSVLLGAVFGKEDFVGHQVLRISVADEAQVQKVELEDLEHLQLDFWRGPAHPG  
SPIDVRVPFPSIQAVKIFLESHGISYETMIEDVQSLLEEQEQMFAFRSRARSTDTFNYA  
TYHTLEEIYDFDLLVAENPHLVSKIQIGNTYEGRPIYVLKFSTGGSKRPAIWIDTGIHS  
REWVTQASGVWFAKKITQDYGQDAAFTAILDITDIFLEIVTNPDGFAFTHSTNRMWRKTR  
SHTAGSLCIGVDPNRNWDAGFGLSGASSNPCSEYHGKFANSEVEVKSI VDFVKDHGNIK  
AFISIHYSQLLMYPYGYKTEPVPDQDELQLSKAAVTALASLYGTFKNYGSIIKAIYQA  
SGSTIDWTYSQGIKYSFTFELRDTGRYGFLLPASQIIPTAKETWLALLTIMEHTLNHPY

>sp|Q96IY4|CBPB2\_HUMAN Carboxypeptidase B2 OS=Homo sapiens GN=CPB2 PE=1 SV=2

MKLCSLAVLVPIVLFCQHVFAFQSGQVLAALPRTSRQVQLQNLTTTYEIVLWQPVTAD  
LIVKKKQVHFFVNASDVNDVKAHLNVSGIPCSVLLADVEDLIQQQISNDTVSPRASASY  
EQYHSLNEIYSWIEFITERHPDMLTKIHIGSSFEKYPLYVLKVSQKEQAAKNAIWIDCGI  
HAREWISPAFCLWFIGHTQFYGIIGQYTNLLRLVDFYVMPVNVVDGYDYSWKKNRMRK  
NRSFYANNHCIGTDLNRNFASKHWCEEGASSSSCSEYCYGLYPESEPEVKAVASFLRRNI  
NQIKAYISMHSYSQHIVFPYSYTRSKSKDHEELSLVASEAVRAIEKISKNTTRYTHHGSE  
TLYLAPGGGDDWIYDLGIKYSFTIELRDTGTYGFLLPERYIKPTCREAFAAVSKIAWHVI  
RNV

>sp|Q5U5Z8|CBPC2\_HUMAN Cytosolic carboxypeptidase 2 OS=Homo sapiens GN=AGBL2 PE=1 SV=2

MFPALETHLKQTIIPDPYEDFMYRHLQYYGYFKAQRGSLPNSATHQHVRRNNPQCLNGSL  
GEKDDLIPDTLQKEKLLWPISSSAVHRQIEAINRDFHSLGWMQWRGLSSQLPPPPRFK  
DSPASAFRVAGITDSHMLSLPHLRSRQLLYDELDEVNPRREPQELFSILSTKRPLQAPR  
WPICEVIKENIHIEWAPPQPEYFYQPKGNEKVPEIVGEKKGTVVYQLDSVPIEGSYFT

SSRVGGKRGIVKELAVTLQGPEDNTLLFESRFESGNLQKAVRVDTYEYELTLRTDLYTNK  
HTQWFYFRVQNTRKDATYRFTIVNLLKPKSLYTVGMKPLLYSQLDANTRNIGWRREGNEI  
KYYKNNTDDGQQPFYCLTWTIQFPYDQDTCFFAHFYPTYTYDLQCYLLSVANNPIQSQFC  
KLQTLCRSLAGNTVYLLTITNPSQTPQEAANKAVVLSARVHPGESNGSWVMKGFLDFIL  
SNSPDAQLLRDI FVFKVLPMLNPDGVI VGN YRCSLAGRD LNRHYKTI LKESFPCIWYTRN  
MIKRLLEEREVLLYCDFHGH SRKNNIFLYGCNNNNRKYWLHERVFPLMLCKNAPDKFSFH  
SCNFKVQKCKEGTGRVVMWRMGI LNSYTMESTFGGSTLG NKRDTHTFTIEDL KSLGYHVCD  
TL LDFCDPDQMKFTQCLAE LKELLRQEI HKKFHEL GQDV DLEGSWSDISLSDIESSTSGS  
DSSLSDGLPVHLANI ADEL TQKKKMF KKKKKKSLQTRKQRNEQYQKKNLMQK LKLTEDTS  
EKAGFASTLQKQPTFFKNSSENSFLPMKNENPRLNETNLNRRDKDTPLDPSMATLILPKN  
KGRMQNKKPGFTVSCSPKRTINSSQEPAPGMKPNWPRSRYPATKRGCAAMAAYPSLHIYT  
YP

>sp|075976|CBPD\_HUMAN Carboxypeptidase D OS=Homo sapiens GN=CPD PE=1 SV=2

MASGRDERPPWRLGRLLLLMCLLLGSSARAHIKKA EATTTTSAGAEAAEGQFDRYYH  
EEELESALREAAAAGLPGLARLFSIGRSVEGRPLWVLRLTAGLGSLIPEGDAGPDAAGPD  
AAGPLLPGRPQVKLVGNMHGDETVSRQVLIYLARELAAGYRRGDPRLVRLNNTTDVYLLP  
SLNPDGFERAREGDCGFGDGGPSGASGRDNSRGRDLNRSFPDQFSTGEPPALDEVPEVRA  
LIEWIRRNKFVLSGNLHGGSVVASYPFDD SPEHKATGIYKTSDDDEVFKYLAKAYASNHP  
IMKTGEPHCPGDEDETFKDGITNGAHWYDVEGGMQDYNVWANC FEITL ELSCKYPPAS  
QLRQEWENNRESLITLIEKVHIGVKGFVKDSITGSGLENATISVAGINHNITTGRFGDFY  
RLLVPGTYNLTVVLTGYMPLTVTNVVKEGPATEVDFSLRPTVTSVIPDTTEAVSTASTV  
AIPNILSGTSSSYQPIQPKDFHHHHPDMEIFLRRFANEYPNITRLYSLGKSVESRELYV  
MEISDNPGVHEPGEPEFKYIGNMHGNEVVGRELLLN LIEYLCKNFGTDPEVTDLVHNTRI  
HLMPSMNPDGYEKSQEGDSISVIGRNNSNFDLNRNFPDQFVQITDPTQPETI AVMSWMK  
SYPFVLSANLHGGSLV VNYPFDDDEQGLATYSKSPDDAVFQQIALSYSKENSQMFQGRPC  
KNMYPNEYFPHGITNGASWYNVP GGMQDWN YLQTNC FEVTIELGCVKYPLEKELPNFWEQ  
NRRSLIQFMKQVHQGV RGFVL DATDGRGILNATISVAEINHPVTTYKTGDYWRLLVPGTY  
KITASARGYNPVTKNVTVKSEGAIQVNFTLVRSS TDSNNESKKGK GASSSTNDASDPTTK  
EFETLIKDL SAENGLESMLRSSNLALALYRYHSYKDLSEFLRGLVMNYPHITNLTNLG  
QSTEYRHIWSLEISNKNVSEPEEPKIRFVAGIHGNAPVGTELLALAEFLCLNYKKNPA  
VTQLVDRTRIVIVPSLNP DGRERAQEKDCTSKIGQTNARGKDLDTDFTNNASQPETKAI I  
ENLIQKQDFSLSVALDGG SMLVTYPYDKPVQTVENKETLKH LASLYANNHPSMHMGQPSC  
PNKSDENIPGGVMRGA EWHSHLGSMKDYSVTYGHCP EITVYTSCCYFPSAARLPSLWADN  
KRSLLSMLVEVHKGVHGFVKDKTGKPI SKAVIVLNEGIKVQTKEGGYFHVLLAPGVHNI I  
AIADGYQQQHSQVFVHDAASSV VIVFD TNRIFGLPRELVVTVSGATMSALILTACIIW  
CICSIKSNRHKDGFHRLRQHHDEYEDEIRMMSTGSKKSLLSHEFQDETDTTEEETLYSSKH

>sp|P16870|CBPE\_HUMAN Carboxypeptidase E OS=Homo sapiens GN=CPE PE=1 SV=1

MAGRGSALLALCGALAAACGWLGAEAQEPGAPAAAGMRRRRRLQQEDGISFEYHRYPELR  
EALVS VWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNMHGNEAVG  
RELLIFLAQYLCNEYQKGNETIVNLIHSTRIHIMPSLNP DGF EKAASQP GELKDW FVGRS  
NAQGIDLNRNFPDLDRIVVNEKEGGPNNHLLKNMKKIVDQNTKLAPETKAVIHWIMDIP  
FVLSANLHGGDLVANYPYDETRSGSAHEYSSSPDDAIFQSLARAYSSFNPAMSDPNRPPC  
RKND DSSFVDGTTNGAWYSVP GGMQDFNYLSSNCFEITVELSCEKFPPEETLKYWED  
NKNSLISYLEQIHRGVKGFVRDLQGNPIANATISVEGIDHDVTSAKDGDYWRLLIPGNYK

LTASAPGYLAITKKVAVPYSPAAGVDFELESFSEKKEEKEELMEWWKMMSETLNF

>sp|Q9Y646|CBPQ\_HUMAN Carboxypeptidase Q OS=Homo sapiens GN=CPQ PE=1 SV=1

MKFLIFAFFGGVHLLSLCSGKAICKNGISKRTFEEIKEEIASCGDVAKAIINLAVYGKAAQ  
NRSYERLALLVDTVGPRLSGSKNLEKAIQIMYQNLQQDGLKVLHLEPVRIPHWERGEESA  
VMLEPRIHKIAILGLGSSIGTPPEGITAEVLLVTSFDELQRRASEARGKIVVYNQPYINY  
SRTVQYRTQGAVEAAKVGALASLIRSVASFISIYSPHTGIQEYQDGVPKIPTACITVEDAE  
MMSRMASHGIKIVIQLKMGAKTYPDTDSFNTVAEITGSKYPEQVVLVSGHLDSDVGGGA  
MDDGGGAFISWEALSLIKDLGLRPKRTLRLVLWTAEQGGVGAFQYYQLHKVNISNYSLV  
MESDAGTFLPTGLQFTGSEKARAIMEEVMSLLQPLNITQVLSHGEGTDINFWIQAGVPGA  
SLDDLYKYFFHHSHGDTMTVMDPKQMNVAADVAVVSYVADMEEMPLRS

>sp|Q5JPI3|CC038\_HUMAN Uncharacterized protein C3orf38 OS=Homo sapiens GN=C3orf38 PE=1 SV=1

MEMSGLSFSEMEGCRNLLGLLDNDEIMALCDTVTNRLVQPQDRQDAVHAILAYSQSAEEL  
LRRRKVHREVIFKYLATQGIVIPPATEKHNLIQHAKDYWQKQPQLKLETPEPVTKTEDI  
HLFQQQVKEDKKAQKVDFFRLGEEFCHWFFGLLSQNPFLGPPQDEWGPQHFWHDVKLRF  
YYNTSEQNVMDYHGAEIVSLRLLSLVKEEFLFLSPNLDSHGLKCASSPHGLVMVGAGTV  
HRGNTCLGIFEQIFGLIRCPFVENTWKIKFINLKIMGESSLAPGTLPKPSVKFEQSDLEA  
FYNVITVCGTNEVRHNVKQASDSGTGDQV

>sp|Q8IYK2|CC105\_HUMAN Coiled-coil domain-containing protein 105 OS=Homo sapiens GN=CCDC105 PE=2 SV=3

MRVLVPPAERSQDTRVGAPAWREAAQAMARTAHILTDRCGQEAVTMWQPKDSVLDPNVAH  
HLGRAAYIQPWRFRVEMIKGGGTLEKPPPGEGVTLWKGKMKPPAWYARLPLPLHRKARAL  
QTTEVVHAHARGARLTAARLGRAHQINGRVRQLLRQREVTDRHLEVRKGLLINQQSVK  
LRGYRPKSEKVPDKADSMILTWEKEELKSMKRKMEDMEKSEVLLKTLASCRDTLNFCEKE  
RLQAVDLMNQPLDKVLEQARRHSWVNLSPRPTPTQGQKTPPPDPVGTYNPACALALNEA  
KRLLVESKDTLVEMAKNEVDVREQLQISDRVCASLAQKASETLELKERLNMTLGLMRGT  
ILRCTKYNQELYTTHGLIKGPLSKVHLETAEKLDRLPLVRMYQRHVGTQLPEAARLAQGTD  
KLQCHITYLEKNLDELLATHKNLSWGLNCKNIGHEVDGNVRLRLRQRQPHVCYEQAQRL  
VKDWDPRTPPPRSKSSADP

>sp|Q96NT0|CC115\_HUMAN Coiled-coil domain-containing protein 115 OS=Homo sapiens GN=CCDC115 PE=1 SV=1

MAALDLRAELDSLVLQLLGDLEELEGKRTVLNARVEEGWLSLAKARYAMGAKSVGPLQYA  
SHMEPVQCLHASEAQEGLQKFKVVRAGVHAPEEVGPREGRLRRRKGPSTPEPESEAPQ  
DPLNWFGLVPHSLRQAQASFRDGLQLAADIASLQNRIDWGRSRLRGLQEKLKQLEPGAA

>sp|Q8IWD4|CC117\_HUMAN Coiled-coil domain-containing protein 117 OS=Homo sapiens GN=CCDC117 PE=1 SV=1

MAALGRPFSGLLPSGGSDFLQPPQPAFPGRAFPFGADGAELAPRPGPRAVPSSPAGSAAR  
GRVSVHCKKKHKREEEEDDCPVRKKRITEAELCAGPNDWILCAHQDVEGHGVNPSVSGL  
SIPGILDVICEEMDQTTGEPQCEVARRKLQEIEDRIIDEDEEVEADRNVNHLPSLVLSDT  
MKTGLKREFDEVFTKKMIESMSRPSMELVLWKPLPELLSDKPKPSSNTKNYTGESQAKHV  
AAGTAFPPQRTFLFSEPRPTGMSLYNSLETATSTEEEMEL

>sp|Q6ZUS5|CC121\_HUMAN Coiled-coil domain-containing protein 121 OS=Homo sapiens GN=CCDC121 PE=1 SV=1

MTDLNKHIIKQAQTQRKQLLEESRELHREKLLVQAENRFFLEYLTNKTEEYTEQPEKVWNS

YLQKSGEIERRRQESASRYAEQISVLKTALLQKENIQSSLKRKLQAMRDIAILKEKQEKE  
IQTLEETKKVQAETASKTREVQAQLLEKRLLEKQLSEPDRLLGKRKRRELMKAQAL  
KLAARFIFEYSCGINRENQQFKELLQLIEQAQKLATQSHLENRKQQLQQEQWYLES  
IARQRLQGSHNQCLNRQDVPKTPSLPQGTSRINPK

>sp|Q8NFR7|CC148\_HUMAN Coiled-coil domain-containing protein 148 OS=Homo sapiens  
GN=CCDC148 PE=1 SV=2

MCAASASPDNLVFHMKNEMRNIIKYKPVYQQLRALTEAKKLASASAKLKIRKAMLSKLS  
KEQTLIKQHKQVWWQEQYQRLNEVRCKMESEIKSLLNEENIGNECLCDLTNFEQELSEQQC  
TYLKNVINPIQQLRADLKYRQHHTLQHSHPHIEFNMSMKVLEEVDVFKKQLKTVFERLRLE  
QQRIENDLSDWSIKILDHSLEEKTNPLSELPIELESLECPYDLKSSILSEFYKFTQKYQ  
KKLQDFNLQLEDIYRNCQLSEEDHWIYQAILDQYPGDLFGRRTLYDMLQRYFPHKSRHD  
LVEHEKYCDQYRFAIEQQNILISNWNKNKKDFIQKAVLTLTEACATHEMESMLAKDKKKQ  
QELCADLKAKVRQWRAHQEEVARLEMEISARRREKEEEEKELWKKKELLQRAEKKKKIKK  
YWAKKKQKWQEMEMRDLQRLEELKKLIAEQSLKDRERVKYRQELLERRLMEKKEVALQEA  
HEDKERARRLEALRKQVAVVAQFDPVRMMSDTMASKARMGIEIEEFILQKPLFTLNTYN  
EQQIISDPRLRFELALREAGLHRTLYAKEILPKISPQKPPRKDMESTVFKI

>sp|POCW27|CC166\_HUMAN Coiled-coil domain-containing protein 166 OS=Homo sapiens  
GN=CCDC166 PE=4 SV=1

MAPKKKRGPSAGSQPGAAAAGAEQPLSERAQYLQREHALLSEQDTCESVDQVLRENA  
FLDREALRLREENRYASYVSARAQRCAKAIVRLDEQNRVDLAQIHWQRAELASLYHGRE  
DGVRAQLLEMEARAAQMAQVQELQPYKVLQLEQLARIRALERELLHMRVEHTQLLHRVK  
RRFLEDKAAFEREARQVQSLARRAEREAVRALVAHTQAIKADNGRLRQELLLLLRRTQL  
LHHTRRQLLEQREQLHREHEDTRDLARVHGWLRGPGGPPLWERPAFSQPTSRPGSLAAP  
ISPSRAASQTPSVVPSRAAPRASSVVPSREASRVPSLVLSMDSRVPSLTSKVGSRMPS  
LTASRAGSRALSLVQSLEGSGISSGSSPRVSSQDTLRSTKSGPKLLSGLSRDRDPALLPP  
QSEDSVNAEAAAEASPGRA

>sp|Q8IXS2|CCD65\_HUMAN Coiled-coil domain-containing protein 65 OS=Homo sapiens GN=CCDC65  
PE=1 SV=2

MPKKEKMAKTPLSDEKQLLLFQQKLLAEEMAKKKERLLSQFLKDKLAKEEHNSALNLNK  
INTQWRTVLREVKTRELHKDIEILSQTFERVVDCKDNVIKSLAKDLSEAEQYAHALRSH  
LHNVDQLLALQRHRLSLEESYMELEALTKEFETERKTIIDQHEKEIHYLQDIFMAMEQ  
NYIDSEYESKLEFQSMWNDLKNMNLEEKHFLRLHLENRVEDLWRKFQDVLKNYTDATEDR  
KAAFETLQVKDEKSSKEIEVQMKKIQKLQDAITISGKIMIHSRESEDENRYIRNDKELV  
LVQLRKLKAQRTQARAASQKNLVRLTLESNATLKALRKIVDKGEKILKLAEICRKFEET  
EKVLPFYSSVLTPKEQEGIQNNLEELTEELTKVMVDYIGMENFWKRYNKVKLEQLSLQH  
RRAQLLDINGKLREMLKQYLDGISVSDEVLSQLNPLFIVNYQSNLLQPLSIRIAHPGDKQ  
HPTT

>sp|Q8IV32|CCD71\_HUMAN Coiled-coil domain-containing protein 71 OS=Homo sapiens GN=CCDC71  
PE=1 SV=3

MSVVVQHVEEKAVHSWSRISTAGKKALEEALLVFNPMSQDLSATEAQLVAFLQGLRDDGF  
QPTILRSGDVYGYSSCTANPPSQTKLQARAPNPTATSPPASAPRTAMRLPAGRATLLPMP  
LSGRLAKASTPALAKHATTNLLSSLKQSSASHARGAAGVFPHTLYPGVYPAMRLSVVLE  
ALVPLKTPMPCLGAKHKAQSLQLSLADSPLKLRKSSGKGPNGPRPKAPRKTTSGPKCLT  
RKGPAGAPRRGSGHQSKTNRATGSPSVRRMKGGSALGTKTAQAKVARTLAKAARAQAKVA



RTQAKAAKARAKAKAAQVKAKAKAKAAQVKAKAKVMAAWAKAKAKAKAVRAKAKVARTQP  
RGRGRPKGSAKARTTRKGQKNRPETVGQKRKRAEEAKDLPPKKRTRLGPRSPKAWLGPGT  
AKLLKFRAIKVDRSSDDEVQRARILRVNLSPVIRLQPLLPSAV

>sp|Q9BR77|CCD77\_HUMAN Coiled-coil domain-containing protein 77 OS=Homo sapiens GN=CCDC77  
PE=2 SV=1

MNFTPTHTPVCRKRTVVSKRGVAVSGPTKRRGMADSLESTPLSPEDRLAKLHPSKELLE  
YYQKKMAECEAENEDLLKKLELYKEACEGQHKLECDLQQREEEIAELQKALSDMQVCLFQ  
EREHVLRLYSENDRLRIRELEDKKKIQNLLALVGTDAGEVTYFCKEPPHKVTILQKTIQA  
VGECEQSESAFKADPKISKRRPSRERKESSEHYQRDIQTLILQVEALQAQLGEQTKLSR  
EQIEGLIEDRRIHLEETIQVQHQRNQNKIKELTKNLHHTQELLYESTKDFLQLRSENQKE  
KSWMLEKDNLSKIKQYRVQCKKKEDKIGKVLPMHESHAQSEYIKSLKDKLVQEKKLS  
NMYQEQCISLEEELARIEEEMRREIFKDRTNKMGKRLQIMTKRYEALERRRILEVEGF  
KTDIKVLRQKLKDLEQMLYKATVNARANQDLALLCEVRDSNRRRAHKIQGELKNLKSQVFG  
LENELRLC

>sp|Q8IWF9|CCD83\_HUMAN Coiled-coil domain-containing protein 83 OS=Homo sapiens GN=CCDC83  
PE=2 SV=2

MENSGKANKKDTHDGPPKEIKLPTSEALLDYQCQIKEDAVEQFMFQIKTLRKKNQKYHER  
NSRLKEEQIWHIRHLLKELSEEKAEGLPVVTREDVEEAMKEKWKFERDQEKNLDRMRMI  
SNAEKLFEKLSEKEYWEEYKNGSERHAKLITSLQNDINTVKENAEKMSEHYKITLEDT  
RKKI IKETLLQLDQKKEWATQNAVKLIDKGSYLEIWENDWLKKEVAIHRKEVEELKNAIH  
ELEAENLVLIDQLSNCRVLVKIPRRLYLTAAGLEVPPPEEMSLELPETHIEEKSELQPT  
EVESRDLMSSSDESTILHLSHENSIEDLQYVKIDKEENSGTEFGDTDMKYLLYEDEKDFK  
DYVNLGPLGVKLSMESKMPHIFQEKEIPVKLYKDVRSPESHITYKMMKSFL

>sp|Q567U6|CCD93\_HUMAN Coiled-coil domain-containing protein 93 OS=Homo sapiens GN=CCDC93  
PE=1 SV=2

MGLPRGPEGQGLPEVETREDEEQNVKLTEILELLVAAGYFRARIKGLSPFDKVVGGMTWC  
ITTCNFDVDVLLFQENSTIGQKIALSEKIVSVLPRMKCPHQLEPHQIQGMDFIHIFPVV  
QWLVKRAIETKEEMGDYIRSYSVSQFQKTYSLPEDDDFIKRKEKAIKTVVDLSEVYKPRR  
KYKRHQGAEEELDEESRIHATLLEYGRRYGFSRQSKMEKAEDKKTALPAGLSATEKADAH  
EEDELRAAEEQRIQSLMTKMTAMANEESRLTASSVGQIVGLCSAEIKQIVSEYAEKQSEL  
SAEESPEKLGTSQLHRRKVISLNKQIAQKTKHLEELRASHTSLQARYNEAKKTLTELKTY  
SEKLDKEQAALIESKADPSILQNLRALVAMNENLKSQEQEFKAHCREEMTRLQQE IEN  
LKAERAPRGDEKTLSSGEPGTLTSAMTHDEDLDRRYNMEKEKLYKIRLLQARRNREIAI  
LHRKIDEVPSRAELIQYQKRFIELYRQISAVHKETKQFFTLYNTLDDKKVYLEKEISLLN  
SIHENFSQAMASPAARDQFLRQMEQIVEGIKQSRMKMEKKKQENKMRRDQLNDQYLELLE  
KQRLYFKTVKEFKEEGRKNEMLLSKVKAKAS

>sp|Q2M329|CCD96\_HUMAN Coiled-coil domain-containing protein 96 OS=Homo sapiens GN=CCDC96  
PE=2 SV=2

MDVSSEHTKDPGEGGDGESLAARPSKIKASSGPPTSPEPGELESEPEEEEEQAASQGG  
TAADEQAEAPKGLTAAEAAGEEGPGEPGRPAEPQPEPEEPAEVGAEEPAQPEPGAGPEEL  
EAEAGAELEQAAGKEVRFQASLPLTRIDEEEEAAPEAETERVEGEEEDKEETQRDGA  
ESKERDGEGRPAKSQEEGRLYGRDEFEDLEWSEEVQKLQEQQLRSDLLDQYRSLLVERN  
RSQRYNLYLQHKI FEALRRKKGLEAAEVADRGAEAEAPEKEQAYLRHLGMLEELKKQQAD  
DLQWYHQELGQLKRQCQEKLTRVEKEWRRFQALKKQVVMQAMGSCMRGGRQAALREVEQ

IQALEDKKEKEMSAVRLNIQLKQSLVHFETRMRTQEDLTQGLLLIDFEQLKIENQTFNE  
KIEERNEELLKLRSKVTNSVQVITHVKEKLHFMDMENACKKTQLAEIEAQAALGRDILTK  
TKQAREGLRTDNIRLNQKCGLLGKDSLLRDLEEKVDKTELLHRRLESLKRHHASLTLSCR  
GVRQKIREAKAFLPS

>sp|P62955|CCG7\_HUMAN Voltage-dependent calcium channel gamma-7 subunit OS=Homo sapiens  
GN=CACNG7 PE=2 SV=1

MSHCSSRALTLSSVFGACGLLLVGIAVSTDYWLYMEEGTVLPQNQTTEVKMALHAGLWR  
VCFFAGREKGRCVASEYFLEPEINLVTENTENILKTVRTATPFPMVSLFLVFTAFVISNI  
GHIRPQRTILAFVSGIFFILSGLSLVVGVLVISSINDEVNMRPSSSEQYFHYRYGWSFA  
FAASSFLLKEGAGVMSVYLFTRYAEEMYRPHPAFYRPRLSDCSDYSGQFLQPEAWRRG  
RSPSDISSDVSIQMTQNYPPAIKYPDHLHISTSPC

>sp|Q8WWL7|CCNB3\_HUMAN G2/mitotic-specific cyclin-B3 OS=Homo sapiens GN=CCNB3 PE=1 SV=2

MLLPLPPQSSKPVPKKSQSSKIVPSHHPSEKTGENCQTKISPSSLQESPSSLQGALKKR  
SAFEDLTNASQCQPVQPKKEANKEFVKVSSKINRNTHALGLAKKNKRNKWHKLEVTPV  
VASTTVPNIMEKPLILDISTSTKTPNTEEASLFRKPLVLKEPTIEDETLINKSLSLKK  
CSNHEEVSLLEKLQPLQEESSDDAFVIEPMTFKKTHKTEEAITKKTLSLKKKMCASQR  
KQSCQEESSLAVQDVNMEEDSFFMESMSFKKKPKTEESIPTHKLSSLKKKCTIYGKICHFR  
KPPVLQTTICGAMSSIKKPTTEKETLQELSVLQEKHTTEHEMSILKKSALQKTNFKED  
SLVKESLAFKKKPTEEAIMPVILKEQCMTEGKRSRLKPLVLQEITSGEKSLIMKPLSI  
KEKPSTEKESFSQEPSALQKKHTTQEEVSILKEPSSLLKSPTEESPFDEALFTKKCTIE  
EAPPTKKPLILKRKHATQGTMSHLKKPLILQTTSGEKSLIKEPLPFKEEKVSLKKKCTTQ  
EMMSICPELLDFQDMIGEDKNSFFMEPMSFRKNPTTEETVLTSTLSLQEKKITQGKMSH  
LKKPLVLQKITSEESFYKKLLPFKMKSTTEEFSLQEPSALKEKHTTLQEVSLSKESLA  
IQEKATTEEEFSQELFSLHVKHTNKGSLFQEALVLQEKTDAAEDSLKNLLALQEKSTME  
EESLINKLLALKEELSAEAATNIQTQLSLKKKSTSHGKVFFLKKQLALNETINEEEFLNK  
QPLALEGYPSIAEGETLFKKLLAMQEEPSIEKEAVLKEPTIDTEAHFKEPLALQEEPSTE  
KEAVLKEPSVDTEAHFKETLALQEKPSIEQEALFKRHSALWEKPSTEKETIFKESLDLQE  
KPSIKKETLLKKPLALKMSTINEAVLFEDMIALNEKPTTGKELSFKEPLALQESPTYKED  
TFLKTLVLPQVGTSPNVSSSTAPESITSKSSIATMTSVGKSGTINEAFLFEDMITLNEKPT  
TGKELSFKEPLALQESPTCKEDTLETFLIPQIGTSPYVFSTTPESITEKSSIATMTSVG  
KSRTTTESSACESADKPVSPQAKGTPKEITPREDIDEDSSDPFNPYAKEIFSVMKER  
EEQFILTDMNRQIEITSDMRILVDWLVEVQVSFEMTHETLYLAVKLVDLYLMKAVCKK  
DKLQLLGATAFMIAAKFEEHNSPRVDDFVYICDDNYQRSEVLSMEINILNVLKCDINIP  
AYHFLRRYARCIHTNMKTLTSRYICEMTLQEYHYVQEKASKLAAASLLALYMKKLGW  
VPFLEHYSGYSISELHPLVRQLNKLLTFSSYDSLKAVYYKYSHPVFFEVAKIPALDMLKL  
EEILNCDCEAQLVL

>sp|P51959|CCNG1\_HUMAN Cyclin-G1 OS=Homo sapiens GN=CCNG1 PE=1 SV=2

MIEVLTTTDSQKLLHQLNALLEQESRCQPKVCGLRLIESAHDNGLRMTARLRDFEVKDLL  
SLTQFFGFDTEFTSLAVNLLDRFLSKMKVQPKHLGCVGLSCFYLAVKSIEEERNVPLATD  
LIRISQYRFTVSDLRMEKIVLEKVCWKVKATTAFQFLQLYSSLLQENLPLERRNSINFE  
RLEAQLKACHCRIIFSKAKPSVLALSIIALEIQAQKCVELTEGIECLQKHSKINGRDLTF  
WQELVSKCLTEYSSNKCSKPNVQKLKWIVSGRTARQLKHSYYRITHLPTIPEMVP

>sp|Q9C0I3|CCSE1\_HUMAN Serine-rich coiled-coil domain-containing protein 1 OS=Homo  
sapiens GN=CCSER1 PE=2 SV=2

MGDSGSRRLVSRPLIFRRSINRRHDSLSPSSSSNTVGVHSSSPSTNSSSGSTGKRR  
SIFRTPSISFHHKKGSEPKQEPNTQNLSISNGAQPGHSNMQKLSLEEHIKTRGRHSGVGS  
SSRNKKITRSLTEDFEREKEHSTNKNVFINCLSSGKSEGDDSGFTEDQTRRSVKQSTRKL  
LPKSFSSHYKFSKPVLSQSISLVQQSEFSLEVTQYQEREPVLVRASPCSDVTERAGS  
SLQSPLLSADLTAAQTPSEFLALTEDSVSEMDAFSKSGSMASHCDNFGHNDSTSQMSLNS  
AAVTKTTELTGTVPCAIMSPGKYRLEGQCSTESNSLPETSAANQKEVLLQIAELPATSV  
SHSESNLPADSEREENIGLQNGETMLGTNSPRKLGfYEQHKAI AEHVKG IHPISDSKIIP  
TSGDHHIFNKTSHGYEANPAKVLASSLSPFREGRFIERRLRSSSEGTAGSSRMILKPKDG  
NIEEVNSLRKQRAGSSSSKMNSLDVNLNLGSCLEDEDDMLDLEFLEEQLHPSVCREDS  
YHSVVSCAAVVLTPMEPMIEMKKREEPEFPEPSKQNL SLKLT KDVDQEARCSHISRPNS  
PSADWPLQGVEENGIDSLPFRMLQDCTAVKTL LLMKRVLQESADMSPASSTTSLPVS  
PLTEEPVPFKDIMKDECSMLKLQLKEKDELISQLQEELGKVRHLQAFASRVDKSTQTEL  
LCYDGLNLKRLETVQGGREATYRNRIVSQNLSTRDRKAIHTPTEDRFYSAADQTSYPKN  
KTCQLPSLCLSNFLKDKELAEV IKHSRGTYETLTSDVTQNL RATVGQSSLKPTAKTEGLS  
TFLEKPKDQVATARQHSTFTGRFGQPPRGPI SLHMYSRKNVFLHNLHSTELQTLGQQDG

>sp|Q9H7U1|CCSE2\_HUMAN Serine-rich coiled-coil domain-containing protein 2 OS=Homo sapiens GN=CCSER2 PE=1 SV=2

MEEKTIKTLFLGSKLPKYGTSVRSTLQPMNGTPVNLLGTSKNSNVKSYIKNNGSDCPS  
SHSFNWRKANKYQLCAQGV EEPNNTQNSHDKIIDPEKRVPTQGMFDKNGIKGGLKSVSLF  
TSKLAKPSTMFVSSTEELNQKSFSGPSNLGKFTKG TLLGRTSYSSINTPKSQLNGFYGNR  
SAGSMQRPRANSCATRSSSGESLAQSPDSSKSINCEKMVRSQSFSHSIQNSFLPPSSITR  
SHSFNRAVDLTKPYQNNQLSIRVPLRSSMLTRNSRQPEVLNGNEHLGYGNRPYAAGGKK  
LALPNGPGVTSTLGYRMVHPSLLKSSRSPFSGTMTVDGNKNSPADTCVEEDATVLAKDRA  
ANKDQELIENESYRTKNNQTMKHDAKMRYLSDDVDDISLSSSSDKNDLSEDFSDDFID  
IEDSNRTRITPEEMSLKEEKHENGPPQDMFDSPKENEKAFSKTDEWIDISVSDRSECTKH  
TSGNNLVSPD TDYRAGSSFELSPSDSSDGYMWDEEGLEPIGNVHPVGSYESSEMNSIDI  
LNNLESCDLEDDDLMLDVLDPEDAPLENVECDNMNRFD RPDRNVRQPQEGFWKRPPQRWS  
GQEHYHLSHPDHYHHHGKSDL SRGSPYRESPLGHFESYGGMPFFQAQKMFVDVPENTVIL  
DEMTLRHMVQDCTAVKTQLLKLKRL LHQHDGSGSLHDIQLSLPSSPEPEDGDKVYKNEDL  
LNEIKQLKDEIKKKDEKIQLLELQLATQHICHQKCKEEKCTYADKYTQTPWRRIPGGYSA  
PSFSPWQGSFGQIPRTVPPHRRQTSSTTAFQQPSQTHRSHPGKTNKATTYRGPQ

>sp|Q5T2Q4|CCYL2\_HUMAN Cyclin-Y-like protein 2 OS=Homo sapiens GN=CCNYL2 PE=3 SV=2

MGNILTCVCPRASPLGHQHQLVCHCESEIY EAAAAGDLIAGVPVAAVEPGEVTFVAGE  
GLHMHHCEREMPEDIPLEPNPSDHPKASTIFLRKSQTDVQEKKKKQLCKVSTEHTQQY  
SSCSTIFLDDSIASQPHLTMTLKSCDLGTILSYQAKRDAHRSLGIFDEQLHPLTVRKEVL  
EEYFKYDPEHKLIFRFVRTLFKAMRLTAEFAIVSLIYIERLVSYADIDICPTNWKRIVLG  
AILLASKVWSDMAVNEDYCKLFKNITVEEMNELERQFLKLINYNNSITNSVYSRFYFDL  
RTLAHNNGLYSPVYLLDRERAWKLEAFSRMEQDKVFYSAAKNGSLSADDLIHLQRAKAIL  
F

>sp|Q99440|CD006\_HUMAN Uncharacterized protein encoded by LINC01587 OS=Homo sapiens GN=LINC01587 PE=2 SV=1

MDTQKQIHKTHNSKNQFFTIFFFLSVEFGKEGTRKNFYLLLSIGHYGRKSRRADLTGADT  
ADKTEPECFAASWTFDPNPSVTVSGAHSTAVHQ

>sp|Q8N8J7|CD032\_HUMAN Uncharacterized protein C4orf32 OS=Homo sapiens GN=C4orf32 PE=2 SV=2

MCSAGELLRGGDGGGERDEDGDALAEREAAGTGWDPGASPRRRGQRPKESEQDVEDSQNHT  
GEPVGDDYKKMGTLFGELNKNLINMGFTRMYFGERIVEPVIVIFFWVMLWFLGLQALGLV  
AVLCLVIIYVQQ

>sp|Q96KX1|CD036\_HUMAN Uncharacterized protein C4orf36 OS=Homo sapiens GN=C4orf36 PE=4 SV=2

MAYGVPRKNTVKTILRGSCYNVQEPWDIALLAKTWSTNLANIKLPFLEEISFGGSVQLTK  
CTTIKDGLLPSAESIKLEREYEVKRLCKLKQENTSKEIQLLRERPAGLRRLPSK

>sp|Q504U0|CD046\_HUMAN Renal cancer differentiation gene 1 protein OS=Homo sapiens GN=C4orf46 PE=1 SV=1

MADPEELQVSSPPPPSSPSSSDASAASSPGGPVSLGWVPSRSSGPTVDQLEEVELQI  
GDAAFSLTKLLEATSAVSAQVEELAFKCTENARFLKTWRDLLKEGYDSLKPDD

>sp|095400|CD2B2\_HUMAN CD2 antigen cytoplasmic tail-binding protein 2 OS=Homo sapiens GN=CD2BP2 PE=1 SV=1

MPKRKVTFGVGDEEDEDEIIIVPKKKLVDPVAGSGGPGSRFKGKHSLSDEEEDDDGGGS  
SKYDILASEDVEGQEAATLPSEGGVRITPFNLQEEMEEGHFDADGNVFLNRDAQIRDSWL  
DNIDWVKIRERPPGQRQASDSEEDSLGQTSMSAQALLEGLELLLPRETVAGALRRLGA  
RGGGKGRKGPGQPSSPQRLDRLSGLADQMVARGNLGVYQETRERLAMRLKGLGCQTLGPH  
NTPPPSLDMFAEELAELEELETPPTQRGEAESRGDGLVDMWEYKWENTGDAELYGPFT  
SAQMQTWVSEGYFPDGVYCRKLDPPGGGFYNSKRIDFDLYT

>sp|Q9NPF0|CD320\_HUMAN CD320 antigen OS=Homo sapiens GN=CD320 PE=1 SV=1

MSGGWWMAQVGAWRTGALGLALLLLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQ  
CRTSGLCVPLTWRCRDLDCSDGSDEEECRIEPTQKGGCPPPPGLPCPCTGVSDCSGGT  
DKKLNRCSRLACLAGELRCTLSDDCIPLTWRCDHGPDPCDSSDELGCGTNEILPEGDATT  
MGPPVTLESVTSLRNATMGPPVTLESVPSVGNATSSSAGDQSGSPTAYGVIAAAVLSA  
SLVTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEKTSLP

>sp|P20138|CD33\_HUMAN Myeloid cell surface antigen CD33 OS=Homo sapiens GN=CD33 PE=1 SV=2

MPLLLLLPLLWAGALAMPNFWLQVQESVTVQEGLCVLVPCTFFHPIPYDKNSPVHGYW  
FREGAIISRDSPVATNKLQEVQEETQGRFRLGDPNRNCSLSIVDARRRDNNGSYFFRM  
ERGSTKYSYKSPQLSVHVTDLTHRPKILIPGTLEPGHSKNLTCSVSWACEQGTPIFSWL  
SAAPTSGLPRTHSSVLIITPRPQDHGTNLTCQVKFAGAGVTERTIQLNVTVYPQNPTT  
GIFPGDGSQKQETRAGVVHGAIGGAGVTALLALCLCLIFFIVKTHRRKAARTAVGRNDTH  
PTTGSASPKHQKSKLHGPTETSSCSGAAPTVMDEELHYASLNFHGMNPSKDTSTEYSE  
VRTQ

>sp|Q08722|CD47\_HUMAN Leukocyte surface antigen CD47 OS=Homo sapiens GN=CD47 PE=1 SV=1

MWPLVAALLLGSACCGSAQLLFNKTKSVEFTFCNDTVVIPCFTVNMEAQNTTEVYVWKWF  
KGRDIYTFDGLNKTSTVPTDFSSAKIEVSQLLKGDAKMDKSDAVSHTGNYTCEVTELT  
REGETIIEIKYRVVSFSPNENILIVIFPIFAILLFWGQFGIKTLKYRSGGMDEKTIALL  
VAGLVITVIVIVGAILFVPGEYSLKNATGLGLIVTSTGILILLHYVVFSTAIGLTSFVIA  
ILVIQVIAYILAVVGLSLCIAACIPMHGPLLISGLSILALAQLLGLVYMKFVASNQKTIQ  
PPRKAVEEPLNAFKESKGMNDE

>sp|P19397|CD53\_HUMAN Leukocyte surface antigen CD53 OS=Homo sapiens GN=CD53 PE=1 SV=1

MGMSSSLKLLKYVLFFFNLLFWICGCCILGFGIYLLIHNNFGVLFHNLPSLTGNVFVIVG

SIIMVVAFLGCMGIKENKCLLSFFILLIILLAEVTLAILLFVYEQKLNEYVAKGLTD  
SIHRYHSDNSTKAAWDSIQSFLQCCGINGTSDWTSGPPASCPSPDRKVEGCYAKARLWFHS  
NFLYIGIITICVVCVIEVLGMSFALTLNCQIDKTSQTIGL

>sp|P13987|CD59\_HUMAN CD59 glycoprotein OS=Homo sapiens GN=CD59 PE=1 SV=1

MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAGLQV  
YNKCWKFEHCNFNDVTTRLRENELTYYCCKKDL CNFNEQLENGGTSLSSEKTVLLLVTPL  
AAAWSLHP

>sp|Q15078|CD5R1\_HUMAN Cyclin-dependent kinase 5 activator 1 OS=Homo sapiens GN=CDK5R1  
PE=1 SV=1

MGTVLSLSPSYRKATLFEDGAATVGHYTAVQNSKNAKDKNLKRHSIIISVLPWKRIIVAVSA  
KKKNSKKVQPNSSYQNNITHLNNENLKKSLSCANLSTFAQPPPAQPPAPPASQLSGSQTG  
GSSSVKKAPHPAVTSAGTPKRIVQASTSELLRCLGEFLCRRCYRLKHLSPDTPVLWLS  
VDRSLLQGWQDQGFITPANVFLYMLCRDVISSEVGSDELQAVLLTCLYLSYSYMGNE  
ISYPLKPFLVESCKEAFWDRCLSVINLMSSKMLQINADPHYFTQVFSDLKNEGQEDKKR  
LLLGLDR

>sp|P08962|CD63\_HUMAN CD63 antigen OS=Homo sapiens GN=CD63 PE=1 SV=2

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVAQLVLSQTIIQGATPGSLLPVVIAV  
GVFLFLVAVFGCCGACKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNFR  
QQMENYPKNNHTASILDRMQADFCCGAANYTDWEKIPSMKSNRVPDSCCINVTGCGIN  
FNEKAHKEGCVEKIGGWLRKNVLVAAAAALGIAFVEVLGIVFACCLVKSIRSGYEV

>sp|P27701|CD82\_HUMAN CD82 antigen OS=Homo sapiens GN=CD82 PE=1 SV=1

MGSACIKVTKYFLFLNLIFFILGAVILGFGVWILADKSSFISVLQTSSSSLRMGAYVFI  
GVGAVTMLMGFLGCIGAVNEVRCLLGLYFAFLLLILIAQVTAGALFYFNMGKLKQEMGGI  
VTELIRDYNSSREDSLQDAWDYVQAQVKCCGWVSFYNWDNAELMNRPEVTYPCSEVKG  
EEDNSLSVRKGFCEAPGNRTQSGNHPEDWPVYQEGCMEKVQAWLQENLGIILGVGVGVAI  
IELLGMVLSICLCRHHVHSEDYSKVPKY

>sp|Q96BT1|CC049\_HUMAN Putative uncharacterized protein C3orf49 OS=Homo sapiens  
GN=C3orf49 PE=2 SV=1

MAQPQLYLPEPFKIAIRKVGQCRRFQQLKKKNGSFKRKGIERWHRAVSTNLLKQNVLPK  
EESSSDSDMGFHESQQNQKSNLTKVKTAFGRMLSYKYRSKPACASQEGSTDHKEALLSN  
TQSLLPRIVKEFSSPKLFTAKMRKLSENATIQLDVVEAETEEITQGNILLRARTTKRLS  
VTSLPSGLQKGPYPKKRPHFPALKKKKRGMENILRKSDLTVGKLQMVDLLIETVTDKS  
MKLLAQRHAELQCEFLGDEILQSSKQFQRISKRTMRKYKLKNMTTKGPGDS

>sp|Q8IYX3|CC116\_HUMAN Coiled-coil domain-containing protein 116 OS=Homo sapiens  
GN=CCDC116 PE=1 SV=2

MARCRHHSGLADDEASHSMCSARVQLPKKPLVPEMRPACKPGRVPHPPSTCGSSALQGQ  
RRNRKHPQPGHFLDFLTESQVLDSLETVEKATERMAAMKTEAGVPLVEVQDPVEVPSG  
GRRAHARPSLSTVHRHRVRPTLCTGHPNNYPSSSSSMNCHSSLMAGCLGSHSRSDSLGA  
QGSLLPPVRDKLLLEKNLKRLLQLEREGKLSQSCSQRDSLLWDSLGSQTSFQWTQEQLS  
WFGSLGSSSGVPEASEPRPGEQEPFRKREFNKEIKSLLSQLESLDLPGYCPLREPHRT  
LNFLADHRLFPALQSVVSQAVDKLRGAHCRDGRPLFPTSLEPTSDLPPLGSEPAKPTNGG  
QPYASPRPTVSSPKMLQRKRKDRGGSPSMSSAQVATRFKLKSPCSSSRFTKKKPLPSISS  
KSSMSHFSNRLYEELADFLTQQAASLVIRKYEFEKDLKQLGFFSFPI THVLRDLSLGLK  
KVGKSRIHLSSETHRSCLLRKLEESKRAAAVSLEA

>sp|Q96BQ5|CC127\_HUMAN Coiled-coil domain-containing protein 127 OS=Homo sapiens  
GN=CCDC127 PE=1 SV=1

MNNLNDPPNWNIRPNSRADGGDSRWNYALLVPMLGLAAFRWIWSRESQKEVEKEREAYR  
RRTAAFQQDLEAKYHAMISENRRAVAQLSLELEKEQNRTASYREALISQGRKLVEEKKLL  
EQERAQVMQEKRVQPLRSAYLSCLGREENWQRRARLLLKEFEAVLTERQNIYCSLFLPR  
SKRLEIEKSLLRASVDPVAADLEMAAGLTDIFQHDTYCGDVWNTNKRQNGRLMWLYLKY  
WELVVELKKFKRVEEAILEK

>sp|Q6ZRS4|CC129\_HUMAN Coiled-coil domain-containing protein 129 OS=Homo sapiens  
GN=CCDC129 PE=2 SV=2

MMAKKSQGSNDLQEGQEKSKREILKCTKSAWAPLDEWLPPDPEEESQSLTIPMLEDSKQE  
SIQQWLDSGFFVSANENFQQVIDRTVSLYEQGMVQMTVKDYMRSLHQFSETPILSRGTSF  
NSCYSTASVPQSIPEWLEFWEIDPVEILLDLGFGADEPDICMQIPARFLGCGSAARGINI  
RVFLEAQKQRMDIENPNLYGRFRQLEILDHVTNAFSSLLSDVSILPNRAEEKAGGESVQR  
TSVSAAKEHRRRMGKLLRRASKQNIIRDCNPEVSESFKVKDEVFVPFTKPWDGAEAAAT  
SINHKNHLSSLVEHQSLQACDDLPPYPHGLLSKQWPCSSMPAKQAPPSCVSEGSVKGR  
TQKENLFQTNKLSLSHLAGKGPDSFEMEEVQSFEETGNPLDMTSGTVGARVDRANSCQ  
SDSSGFLEEPLEPLPLQMPSPNSQSPAENGGRKPRDQSHSLVSSQDCQLESDGPDSSSR  
ASMSFSSQEANALEQRASVSVMEEEFLEAMEGPPELYIPDMACAKTTTRGECPRKDSHL  
WQLLPMPHAEYEVTRPTATSKYDHPLGFMVTHVTEMQDSFVRPEGAGKVQSHHNESQRSP  
GNDHTQDKFLHVDSEAPREEESSGFCPTHNSLLVPESSSQCIKHSIEITPYATDLAQT  
EKLIPHLHKLPGDPAQVKRSRGTGQILPGTEAMENLPLNTGSSRSVMTQMSSSLVSAA  
QRAVALGTGPRGTSLECTVCDPVTATETRLGTKARQLNDASIQTSALSNKTLTHGPQPLT  
KSVSLDSGFSSICPMGTCHAIPAHCICHHHPHCHGERQSPGPEPSVCRHCLCSLTGHQ  
EAQFMTTLKALQDTTVRELCSCTVHEMEAMKTICQSFREYLEEIEQHLMGQQALFSRDMS  
EEEREEAEQLQTLREALRQQVAELQFQLGDRQQIREGILLQLEVLTAEPPEHYSNLHGY  
NWIEESNGQTSCSKIHPGMAPRTVFPPDDGQEAPCSGGTQLAAFTPPTLENSTRMSPSSS  
AWAKLGPTPLSNCPVGEKDADVFL

>sp|Q96JN2|CC136\_HUMAN Coiled-coil domain-containing protein 136 OS=Homo sapiens  
GN=CCDC136 PE=1 SV=3

MQAMEGEVLLPALYEEEEEEEEEEEEVEEEEQVQKGSVGSLSVNKHRLSLTETEELE  
LRAQVLQLVAEEETRELQGHEDDSLELQGLLEDERLASAQQAQEVFTKIQQLQGLRS  
LREEISLLEHEKESELKEIEQLHLAQAEIQSLRQAAEDSATEHESDIASLQEDLCRMQN  
ELEDMERIRGDYEMEIASLRAEMEMKSSEPSGSLGLSDYSGLEELQELRERYHFLNEEY  
RALQESNSSLTGQLADLESERTQRATERWLQSQTLSMTSAESQTSEMDFLEPDPEMQLLR  
QQLRDAAEQMHGMKNKCQELCCELEELQHHRQVSEEEQRRQLRELKCAQNEVLRFTSHS  
VTQNEELKSRLCTLQKKYDTSQDEQNELLKMQLQLQTELRLKVMKSTLVENQSEKELLC  
RLQKLHLQHQNVTCEKEKLLERQQQLQEELQCHEAELQHLRDTVASFKESNEKDTETHAQ  
LQEMKQLYQASKDELERQKHYDQLEQDLLLLCQLELKELKASHPIPEDKGKCAKCDTLL  
SRLTELQEKYKASKEMGQLQMEQCELLEDQRRMQEEQGQLQEELHRLTLPLPKSGLLLK  
SQELLTKLEDLCELLLYQGMQEEQKKLIQNQDCVLKEQLEIHEELRRFKESHFQEVLEN  
PDDSKLAKSSKCNRNKQSKLLMEQMQUALQVMDAGQAKQELLQEQGRLLLEERKRLQADL  
QLCLEEMQLLQVQSPSIKMSLESYGKSYGSMVPSNENCRKTYDTTVDDNESYKSYSTSQ  
TSSKSFLKSYDSSTASEAYGKSYCTTSNSSITYKKSYGSTSSSDTCQKSFVSSCTDEEP  
AEPEDMERFEEMVVKVLIKLQAVQAMYQISQEEHSQLQEQQMEKLLAKQKDLKEELDACER

EFKECMECLEKPMAPQNDKNEIKELQTKLRELQLQYQASMDEQGRLLVVQEQLEGQLQCC  
QEELRQLREKRPSVVKEARGKNANKNMKNANGVKMKKVTKPCSDTSESLETRKSLEV  
LYYKASQRKLDGLAKEEEKKEEMEEKKQVKEEAKEQCGDELVAEPADPEEAKSTEDQEE  
NEEDKEEEEKEEDSEEEEDDADSSLESPEENNPLRLSESKSSPTPNPPIFSLPLVGLVV  
ISALLWCWWAETSS

>sp|Q96M89|CC138\_HUMAN Coiled-coil domain-containing protein 138 OS=Homo sapiens  
GN=CCDC138 PE=1 SV=1

MEPRVVKPPGQDLVESLSRYGLGGSCPDEYDFSNFYQSKYKRRTLSPGDLDIYSGDK  
VGSSLYKSYDESKHCRTPGLSLFKHVNVCNLDDELDSFHDLLKKQETEEELIENDYRVSTSK  
ITKQSFKEIEKVALPTNTTSSRPTECCSDAGDSPLKPVSCPCKSKASDKRSLLPHQISQI  
YDELFQIHLKLQCETAAQKKFAEELQKRERFLLEREQLLFRHENALSKIKGVVEEVTRF  
QIIKEQHDAEVEHLTEVLKEKNKETKRLRSSFDALKELNDTLKKQLNEASEENRKIDIQ  
KRVQARLDNLQRKYEFMTIQRKLGSSHAVHEMKSLLKQEKAPVSKTYKVPLNGQVYELLTV  
FMDWISDHHSKVKHEESGMDGKKPQLKFASQRNDIQEKCVKLLPLMTEQLQWMPFVNIK  
LHEPFVKFIYWSLRQLDAGAQHSTMTSTLRRLEGEDIFKGVVTGKIQDNSPQHSVENPKPT  
AAFFKSSNPLRFLSTLIVLKTVTQADYLAQAFDSLCLDLKTEEGKTLFLEYQAVPVILS  
HLRISSKGLLSNVIDSLLQMTVESKSLQPFLEACNSLFFRTCSVLLRAPKLDLQILEKL  
SIIILQKLSKIKSNKKLFELFTIHLMLQEIQRTTNPEHAFLCINLNLSTLNLGLTKCNSLV  
SSASP

>sp|Q6ZP82|CC141\_HUMAN Coiled-coil domain-containing protein 141 OS=Homo sapiens  
GN=CCDC141 PE=1 SV=2

MSSQGSVALSTTTVSSVAVQAGDSKIVIAVIKCGKVVQLQLAESQPNLLEIGSSQDET  
KKLLHDHELLLAKLKALEDREVWELLQEADKTAENKQDSQVYDAMAETLGEAWAALVSML  
ERRTELLRLTSEFFENALEFAIKIDQAEDFLQNTHEFESAESLSLLQLHEHHTKELLER  
SLALLNKSQQLTDFIEKFKCEGPNVNPETQGAHSSCLKVDRLLELLQDRRRQLDKYLKQ  
QWQELSQVLQICQWDQENQVTCWFQKTIRNLQEQLGSSSLSDNEDRIHKQEELIIKAKE  
WNSAVEKLGSEALRILLKDYVEKEHLQLSHQKLSQLQEEFGQLMVERNTWLKKANEFFN  
SANKAFDVLGRVEAYLKLKSEGLSLAVLAVRHEELHRKIKDCTTDALQKGQTLISQVDS  
CSSQVSGIHEMMGCIKRRVDHLTEQCSAHKEYALKKQQLTASVEGYLRKVMESIQKISPV  
LSNAMDVGSTRSESEKILNKYLELDIQAKETSHELEAAAKTMMKNEFVSDMVSLSSKA  
RWLAEEELNLFQGSIDYRSQVLQTYVAFKLSSEEVEMQFQSLKEFYETEIPQKEQDDAKAK  
HCSDSAEKQWQLFLKKSFITQDLGLEFLNLINMAKENEILDVKNVYLMKNTMENQKAER  
EELSLLRLAWQLKATESKPGKQQAFAFKEQLKKTSHNLKLLQEALMPVSALDLGGSLQFI  
LDLRQKWNMMPQFQQLNDEVQYIMKESEELTGRGAPVKEKSQQLKDLIHFHQKQKERTIQ  
DYEDILYKVVQFHQVKEELGRLIKSRELEFVEQPKELGDAHDVQIHLRCSQEKQARVDHL  
HRLALSLGVDIISVQRPHCSNVSAKNLQQQLELLEEDSMKWRAKEEYGRTLRSRVEYC  
AMRDEINELKDSFKDIKKKFNNLKFNYTKKNEKSRNLKALKYQIQQVDMYAEKMQALKRK  
MEKVSNKTSDFSFLNYPSPDKVNVLEVMKDLQKHVDDFDKVVTDYKKNLDLTHEFQEVIEE  
CHFWEYEDASATVVRVGKYSTECTKEAVKILHQQFNKFIAPSVPPQEERTIQEATDLAQHL  
YGLEEGQKYIEKIVTKHKEVLESVTELCESLTELEELKQGDVLMKNPNLEDFHYDYIDL  
LKEPAKNKQTIFFNEERNKGQVQVADLLGNGTGEERLPQDLKVSTDKEGGVQDLLLLPEDM  
LSGEEYECVSPDDISLPLPGSPESPLAPSDMEVEEPVSSSLSHISSYGVQAGTSSPGD  
AQESVLPPPVAFADACNDKRETFSSHFERPYLQFKAEPPLTSRGFVEKSTALHRISAEHP  
ESMMSEVHERALQQHPQAQGGELLETREKMHADNNFTKTQDRLHASSDAFSGLRFQSGTSR

GYQRQMVPREEIKSTSASKSSVSLADQAPNFSRLLSNVTVMEGSPVTLEVEVTGFPEPTL  
TWWVAYNDKP

>sp|A6NI56|CC154\_HUMAN Coiled-coil domain-containing protein 154 OS=Homo sapiens  
GN=CCDC154 PE=2 SV=4

MSELADSGPSGASAPSQLRAVLTLEDLGLLLAGGLASPEPLSLEELSERYESHPTSTASV  
PEQDTAKHWNQLEQWVVELQAEVACLREHKQRCERATRSLLRELLQVRARVQLQGSELRQ  
LQQEARPAAQAPEKEAPEFSGLQNQMALDKRLVEVREALTRLRRRQVQQAERRGAEQE  
AGLRLAKLTDLLQEEQGREVACGALQKNQEDSSRRVDLEVARMQAVTKLGEEVSLRFL  
KREAKLCGFLQKSFLALEKRMKASESSRLKLEGSRLGELESRWEKLRGLMEERLRALQGQ  
HEVGPGRRAEESHLLQCCQLDAAVAQLTKFVQQNQASLNRVLLAEEKAWDAKGRLEES  
RAGELAAVYQENLEAAQLAGELARQEMHGELVLLREKSRALEASVAQLAGQLKELSGHLP  
ALSSRLDLQEQLGLRLSEAKTEWEGAERKSLEDLARWRKEVTEHLRGVREKVDGLPQQI  
ESVSDKCLLHKSDSLRISAEGKAREFKVGALRQELATLLSSVQLLKEDNPGRKIAEMQG  
KLATNQIMKLENCVQANKTIQNLRFNTEARLRTQEMATLWESVLRLWSEEGPRTPLGSWK  
ALPSLVRPRVFIKDMAPGKVPMNCWGVYQAVRWLRWKASLIKLRALRRPGGVLEKPHSQ  
EQVQQLTPSLFIQK

>sp|POC7W6|CC172\_HUMAN Coiled-coil domain-containing protein 172 OS=Homo sapiens  
GN=CCDC172 PE=1 SV=1

MSLESLFQHIIFTEHQAEESRRLMREVRSEITRCREKIKKATEELNEEKIKLESKVQQFF  
EKSFFLQLLKAHENALEKQYSEITNHRNMLLQTFEAIKKQMIEEEDKFIKEITDFNNDYE  
ITKKRELLMKENVKIEISDLENQANMLKSEMKSMEHDSSQLNELQKQKSELIQELFTLQR  
KLKVFEEENESICTTKYLEAEKIKISEKPQNDTECLRLKKELELYKEDDMESVYEALQT  
EIEFLELTLAQKDLQESK

>sp|Q52MB2|CC184\_HUMAN Coiled-coil domain-containing protein 184 OS=Homo sapiens  
GN=CCDC184 PE=1 SV=2

MEDGLLEIMTKDGGDMPAPLEVSTVPAVGDVISGEYNGGMKELMEHLKAQLQALFEDVRA  
MRGALDEQASHIQVLSDDVCANQRAIVSMCQIMTTAPRQGGLGVVGKGSFQSDPQEPET  
PSPGIGDSGLLGRDPEDEEEEEEEKEMPSPATPSSHCPESPSCAGLLGGDGPLVEPLDM  
PDITLLQLEGEASL

>sp|AOA096LP49|CC187\_HUMAN Coiled-coil domain-containing protein 187 OS=Homo sapiens  
GN=CCDC187 PE=2 SV=1

MPTLVVGTPTCLGDTPQPCHKNSQRQGPFSHGAPGRAADWKAVAKPRLCAPAAEDDVAA  
LRWPGPSQQPDPPWAAPHVVGSDDLKEPGPWGKACSLPMWSTGPEARDGDSSVSSGRLSC  
SSGGHDVCVSWKERPPQVLGPQQRPKRKSDARLEQLRDKIRAAWQQGSCASLGTSAPSSA  
SRLHKASTLMLRRKGQEAKNPPPAPECSGFSILSAAERRVEAKASHGQGRELSRVSQHQV  
PVLREKPKRVKSSSCKREKTPKLPSPRRAAKDKHKDEDESELVGVIYAWRKGQALVRSLLGP  
PPVLRHHKSDPSRDPALTVDLGDSEKIVIAKCSPVCAQLPDATSAYSDDQQVSGNTPSLA  
SFDQPATIQTAMAILQDLRQQIQAGLELAQARKGGQELGPSKRRLQDVAGRCCRDPAQ  
SSFSKSPWAMTERKHSSLERARSVHTWEPWSSSTARESCPQRAWGAQQGQDRSFQRPESPH  
ERLGHFSQRPWSALAGQACSPQRAWGAQRQGPSSQRPGSPPEKRSPFPQQPWSAVATQPC  
PRRAWTACETWEDPGPRLRNPLERPSPPAQRPWSSSGVQRAGPQKGKRGIGSPVSAAKHA  
LPRPTGSFPQNPLGKEKDTLRPCPRSRGLLGPSHSSESLREFMRKAQARRRQALEEKAS  
ALRTRELRSRRLQEYVRQQREAVLGRAVPVVSRTTPGIVTFVPSSAQSGGLEASGSLESP  
VLEWSKVTSGMVLGGQEAQGSFCLCLNRAWNHAETLDPPGMGGPQDGRDAPVLLSASPSL



GSLELQDLTTRYLPRGMCIYLDPKEAEHLGTSSSLHLRHKQAQLQALETAKVLKQRVDS  
LTAKLQGAEALDTRVDPVGLLRSCPHSLPAAPTLATPTLATPACPGALGPNWGRGAPGE  
WVSMQPQPLLPTYFLDGETLSWGSPWEQQQSVSPRAHCESKPRGFPEEGHVDVKPDKRL  
QRGVAPFQALSPSAGSSYAGPATLHPIWGSGLLEETPSVGGADSVAPCTPRSCGKGDPAD  
RPWAGWSGGRGIHREHLPLPSTRAWPYGVEKSFSTWRASTPRY

>sp|Q96PX6|CC85A\_HUMAN Coiled-coil domain-containing protein 85A OS=Homo sapiens  
GN=CCDC85A PE=2 SV=3

MSKAAGGAAAAAAEESCSPAPAGSSAAPPAPVEDLSKVSDEELLQWSKEELIRSLRRAE  
AEKVSAMLDHNSLIREVNRRLQLHLGEIRGLKDINQKLQEDNQELRDLCCFLDDDRQKKG  
RVSREWQRLGRYTAGVMHKEVALYLQKLKDLEVKQEEVVKENMELKELCVLLDEEKGAGC  
AGSRCSIDSQASLCQLTASTAPYVRDVGDSSTSTGSTDSPDHHKHHASSGSPEHLQKP  
RSEGSPEHSHKRSASPEHPQKPRACGTPDRPKALKGPSPEHHKPLCKGSPEQQRHPHPGS  
SPETLPKHVLSGSPEHFQKHRSAGSSPEHARHSGGSPEHLQKHALGGSLEHLPRARGTSPE  
HLKQHYGGSPDHKHGGSGSGSGSGSREGTLRRQAQEDGSPHHRNVYSGMNESTLSYV  
RQLEARVRQLEENRMLPQASQNRQPPTRNSSNMEKGWGSRRARVLQWWWQGCGRIGRCL  
PTLPGSFRLSSGADGSNSPNSAASFSGHATPSQQPEPVVHSLKVVRKLGDAAGSCPGI  
RQHLSGNQYKGPM

>sp|A6NKD9|CC85C\_HUMAN Coiled-coil domain-containing protein 85C OS=Homo sapiens  
GN=CCDC85C PE=1 SV=1

MAKPAATAAAASEELSQVPDEELLRWSKEELARRLRRAEGEKVGLMLEHGGLMRDVNRRL  
QQHLLAIRGLKDVNQRLQDDNQELRELCCFLDDDRQKGRKLAREWQRFGRHAAGAVWHEV  
ARSQQKLRELEARQEALLRENLELKVLLDEERAALATGAASGGGGGGGAGSRSSI  
DSQASLSGPLSGGAPGAGARDVGDGSSSTSSAGSGSPDHHHHVPPLLPPGPHKAPDGKA  
GATRRSLDDLAPPHRSIPNGLHDPSSYIRQLESKVRLLLEGDKLLAQAGSGEFRTL  
KGFSPYHSEQLASLPSPSYQDSLQNGPACPAPELPSPPSAGYSPAGQKPEAVVHAMKVLE  
VHENLDRQLQDSCEEDLSEKEKAIVREMCNVVRKLGDAASSKPSIRQHLSGNQFKGPL

>sp|Q8IX12|CCAR1\_HUMAN Cell division cycle and apoptosis regulator protein 1 OS=Homo sapiens  
GN=CCAR1 PE=1 SV=2

MAQFGGQKNPPWATQFTATAVSQPAALGVQQPSLLGASPTIYTQQTALAAAGLTTQTPAN  
YQLTQTAALQQQAAAAAALQQQYSQPQQALYSVQQQLQQPQQTLTQPAVALPTSLSLS  
TPQPTAQITVSYTPTRSSQQQTQPQKQRVFTGVVTKLHDTFGFVDEDVFFQLSAVKGKTP  
QVGDRVLVEATYNPNMPFKWNAQRIQTLPNQNSQTQPLLKTPPAVLQPIAPQTTFGVQT  
QPQPQSLLQAQISAASITPLLQTQPQLLQQPQQKAGLLQPPVRIVSQPQPARRLDPPSR  
FSGRNDRGDQVPNRKDDRSRERERRRRSRERSPQRKRSRERSPRRERERSPRRVRVVP  
RYTVQFSKFSLDCPSCDMMELRRRYQONLYIPSDFFDAQFTWVDAFPLSRPFQLGNYCNFY  
VMHREVESLEKNMAILDPPDADHLYSAKVMLMASPSMEDLYHKSCALAEDPQELRDGFQH  
PARLVKFLVGMKGKDEAMAIGGHWSPSLDGPDPKDPVLIKTAIRCKALTGIDLSVCT  
QWYRFAEIRYHRPEETHKGRTVPAHVETVVLFFPDVWHCLPTRSEWETLSRGYKQQLVEK  
LQGERKEADGEQDEEEKDDGEAKEISTPTHWSKLDPKTMKVNDLRKELESRALSSKGLKS  
QLIARLTQKLKVEEQKEEQKELEKSEKEEDEDKSEDDKEEEEERKRQEEIERQRRERR  
YILPDEPAIIVHPNWAASGKFDCSISLSVLLDYRLDNKEHSFEVSLFAELFNEMLQR  
DFGVRIYKSLSLPEKEDKKEKDKSKKDERKDKKEERDDETDEPKPKRRKSGDDKDKKE  
DRDERKKEDKRKDDSKDDDETEEDNNQDEYDPMEEAAEEDDRDEEEMTKRDDKRDIN  
RYCKERPSKDKEKEKTQMITINRDLLMAFVYFDQSHCGYLLEKDLLEEILYTLGLHLSRAQ

VKLLNKVVLRESCFYRKLTDTSKDEENHEESESLEQEDMLGNRLLLPTPTVKQESKDVEE  
NVGLIVYNGAMVDVGSLLQKLEKSEKVRAEVEQKLQLLEEKTEDEKTI LNLENSNKSLS  
GELREVKKDLSQLQENLKISENMNLQFENQMNTIRNLSTVMDEIHTVLKKDNVKNEDKD  
QKSKENGASV

>sp|Q8N163|CCAR2\_HUMAN Cell cycle and apoptosis regulator protein 2 OS=Homo sapiens  
GN=CCAR2 PE=1 SV=2

MSQFKRQRINPLPGGRNFGTASTSLLGPPPGLLTPPVATELSQNARHLQGGEKQRVFTG  
IVTSLHDYFGVVDEEVFFQLSVVKGRLPQLGEKVLVKAAYNPGQAVPWNVAVKVQTLNQPL  
LLKSPAPPLLHVAALGQKQILGAQPQLIFQPHRIPPLFPQKPLSLFQTSHTLHLSHLNR  
FPARGPHGRLDQGRSDDYDSKKRKQRAGGEPWGAKKPRHDLPPYRVHLTPYTVDSPICDF  
LELQRRYRSLVPSDFLSVHLSWLSAFPLSQPFSLHHPRIQVSSEKEAAPDAGAEPIA  
DSDPAYSSKVVLLSSPGLLELYRCMLFVDDMAEPRETPEHPLKQIKFLLGRKEEEAVLV  
GGEWSPSLDGLDPQADPQVLVVRTAIRCAQAQTGIDLSGCTKWWRFAEFQYLQPGPPRRLQ  
TVVVYLPDVWTIMPTLEWEALCQQAEEAAPPTQEAQGETEPTQAPDALEQAADTSRR  
NAETPEATTQETDIDLPEAPPPLEPAVIARPGCVNLSLHGIVEDRRPKERISFEVMVL  
AELFLEMLQRDFGYRVYKMLLSLPEKVVSPPEPEKEEAAKEEATKEEEAIKEEVVKEPKD  
EAQNEGPAESEAPLKEDGLLPKPLSSGEEEEKPRGEASEDLCEMALDPELLLLRDDGE  
EEFAGAKLEDSEVRSVASNQSEMEFSSLQDMPKELDPSAVLPLDCLLAFVFFDANWCGYL  
HRRDLERILLTLGIRLSAEQAKQLVSRVVTQNICQYRSLQYSRQEGLDGGLPEEVLFGNL  
DLLPPPGKSTKPGAAPTEHKALVSHNGSLINVSLLQRAEQQDSGRLYLENKIHTLELKL  
EESHNRFSATEVTNKTAAEMQELRVRLAEAEETARTAERQKSQQLRLLQELRRRLTPLQ  
LEIQRVVEKADSWVEKEEPAPSN

>sp|Q1T7F1|CCB42\_HUMAN Putative chemokine-related protein B42 OS=Homo sapiens PE=5 SV=1  
MPLSDWCCGICEEAPLGRAYTQTWMETGCGPHGV TALGQQLKDCLRARSGGTASSVDWI  
MEAARGSLNVHNCLIKFGRRD

>sp|Q2M243|CCD27\_HUMAN Coiled-coil domain-containing protein 27 OS=Homo sapiens GN=CCDC27  
PE=2 SV=2

MFEAIFPSTPQARLKRDPREKPLSSFRSTFRQQSSLGLCIPRLMLPKEASPSQRHSSMS  
SSMARALVLLQSMASRDARCPKPHQKPRTLSSKSVQTI SRYRKTSSEPKDAASLTGFMS  
KMELRRVFPTHDPQFSTRATSMHCGSPTEADLSGEIDNSSETWRGTQDLFLARRGSD  
TNVDGYLLPFSKSI CEFDYLRKRKRSQTLSPVTSSVASQSCLRKMPWYLSVIEKDHC  
LSELEIQVQKKDEEILLQEEREALKMKLCKLLKGKGQETSMSPGRREQLSDASLKLGR  
SLLKAFSRHEEELQHWWQMEESAAPERGKEPDLGGGEDEGLEGEPDGVEDTGAWGGVS  
QMGSVHEEGSEEEEEEGDRDEDESEERELPEEEEEIPRRRASSLAESFEEELLAQLEEYEQ  
VILDFQFNLEATRTRYSLATGVIASLQQQVDFQETQLRKINTENETLQKELRERRQQLQA  
MTDKFSNLREDKKHQEMMGLIEKDNQLLRQQVSELERKLT KRDCVISELDTKVSQLEQV  
ELDQNHQLRWKQLQEDLQSKKEMIQQAEQHTRVALESSQSRLELRNKIIQATFSISGTK  
SLANEISDNDILEALQRIISERSDYNNQLKQKGVKVPPLQQSEAFLLTSKSKKGTSK

>sp|O60359|CCG3\_HUMAN Voltage-dependent calcium channel gamma-3 subunit OS=Homo sapiens  
GN=CACNG3 PE=2 SV=1

MRMCDRGIQMLITTVGAFAAFSLMTIAVGTDYWLYSRGVCRTKSTSDNETSRKNEEVMTH  
SGLWRTCCLEGAFRGVCKKIDHFPEDADYEQDTAEYLLRAVRASSVFPILSVTLFFGGGL  
CVAASEFHRSRHNILSAGIFFVSAGLSNIGIIVYISANAGDPGQRDSKKSYSYGWSFY  
FGAFSFIIEIVGVVAVHIYIEKHQQLRAKSHSEFLKKSTFARLPPYRYRFRRRSSSRST

EPRSRDLSPISKGFHTIPSTDISMFTLSRDPKITMGTLNLSRDRHAFLLQFHNSTPKFEK  
ESLHNNPANRRRTTPV

>sp|Q16663|CCL15\_HUMAN C-C motif chemokine 15 OS=Homo sapiens GN=CCL15 PE=1 SV=2  
MKVSVAALSCLMLVAVLGSQAQFINDAETELMMSKLPLENPVVLSNFHFAADCCTSYISQ  
SIPCSLMKSYFETSSECSKPGVIFLTKKGRQVCAKPSGPGVQDCMKKLKPYSI

>sp|P55773|CCL23\_HUMAN C-C motif chemokine 23 OS=Homo sapiens GN=CCL23 PE=1 SV=3  
MKVSVAALSCLMLVTALGSQARVTKDAETEFMMSKLPLENPVLLDRFHATSADCCISYTP  
RSIPCSLLESYFETNSECSKPGVIFLTKKGRRFCANPSDKQVQVCVRMLKLDTRIKTRKN

>sp|Q99731|CCL19\_HUMAN C-C motif chemokine 19 OS=Homo sapiens GN=CCL19 PE=1 SV=1  
MALLLALSLLVLWTSPAPTLSGTNDACCLSVTQKPIPGYIVRNHFYLLIKDGCRVPAV  
VFTTLRGRQLCAPDQPPVERIIQRLQRTSAKMKRRSS

>sp|Q9NRJ3|CCL28\_HUMAN C-C motif chemokine 28 OS=Homo sapiens GN=CCL28 PE=1 SV=1  
MQQRGLAIVALAVCAALHASEAILPIASSCCTEVSHHISRRLLERVNMCRIRADGDCDL  
AAVILHVKRRRICVSPHNHTVKQWMKVQAAKNGKGNVCHRKKHHGKRNSNRAHQKHET  
YGHKTPY

>sp|P13236|CCL4\_HUMAN C-C motif chemokine 4 OS=Homo sapiens GN=CCL4 PE=1 SV=1  
MKLCVTVLSLLMLVAAFCSPLASAPMGSDPPTACCFSYTARKLPRNFVVDYYETSSLSQS  
PAVVFQTKRSKQVCADPSESQVQYVYDLELN

>sp|P13501|CCL5\_HUMAN C-C motif chemokine 5 OS=Homo sapiens GN=CCL5 PE=1 SV=3  
MKVSAAALAVILIATALCAPASAPYSSDTPCCFAYIARPLPRAHIKEYFYTSKGCSNP  
AVVFVTRKNRQVCANPEKKWVREYINSLEMS

>sp|Q9BSQ5|CCM2\_HUMAN Cerebral cavernous malformations 2 protein OS=Homo sapiens GN=CCM2  
PE=1 SV=1

MEEEGKKGKPGIVSPFKRVFLKGEKSRDKKAHEKVTERPLHTVVLSPERVEPDRLLS  
DYIEKEVKYLGQLTSIPGYLNPSSRTEILHFIDNAKRAHQLPGLTQEHDVLSLSAYNV  
KLAWRDGEDIIILRPIHDIAAVSYVRDDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAG  
SLSESAVGPEACCLVILAAESKVAEEELCCLLGQVFQVVYTESTIDFLDRAIFDGASTP  
THHLSLHSDSSSTKVDIKETYEVEASTFCFPESVDVGGASPHSKTISESELSASATELLQ  
DYMLTLRTKLSSQEIQQFAALLHEYRNGASIHFCINLRQLYGDSRKFLLLGLRPFIEPK  
DSQHFENFLETIGVKDGRGIITDSFGRHRRALSTSSSTTNGNRATGSSDDRSAPSEGDE  
WDRMISDISSDIEALGCSMDQDSA

>sp|P32248|CCR7\_HUMAN C-C chemokine receptor type 7 OS=Homo sapiens GN=CCR7 PE=2 SV=2  
MDLGKPMKSVLVALLVIFQVCLCQDEVTDYIGDNTTVDYTLFESLCSKKDVRNFKAWF  
LPIMYSIICFVGLLGNGLVVLTYIYFKRLKTMDDTYLLNLAVADILFLLTLPFWAYSAAK  
SWVFGVHFCKLIFAIYKMSFFSGMLLLLCISIDRYVAIVQAVSAHRHRARVLLISKLSKV  
GIWILATVLSIPELLYSDLQRSSSEQAMRCSLITEHVEAFITIQVQMVIGFLVPLLAMS  
FCYLVIIRTLLQARNFERNKAIKVIIVVVVFIVFQLPYNGVLAQTVANFNITSSTCEL  
SKQLNIAYDVTYSLACVRCCVNPFLYAFIGVKFRNDLFKLFKDLGCLSQEQLRWSSCRH  
IRRSSMSVEAETTTTFSP

>sp|P51686|CCR9\_HUMAN C-C chemokine receptor type 9 OS=Homo sapiens GN=CCR9 PE=1 SV=2  
MTPTDFTSPIPNMADDYGSESTSSMEDYVNFNFTDFYCEKNNVRQFASHFLPPLYWLVFI  
VGALGNSLVILVYWYCTRVKTMDFLLNLAIADLLFLVTLPFWAIAAADQWKQTFMCK  
VVNSMYKMFYSCVLLIMCISVDRYIAIAQAMRAHTWREKRLLYSKMVCFTIWLAAALC  
IPEILYSQIKEESGIAICTMVYPSDESTKLKSAVLTALKVILGFFLPFVVMACCYTIIHT

LIQAKKSSKHKALKVTITVLTVFVLSQFPYNCILLVQTIDAYAMFISNCAVSTNIDICFQ  
VTQTIAFFHSCLNPNVLYVFGERFRRDLVKTLKNLGCISQAQWVSFTRREGSLKLSSMLL  
ETTSGLSL

>sp|Q5M9N0|CD158\_HUMAN Coiled-coil domain-containing protein 158 OS=Homo sapiens  
GN=CCDC158 PE=2 SV=2

MESKAWESNNEDLLSSSGVTSNGGSSSSFFVSSIRGTIIENTSSAGTLTQVPFFPKYEVE  
LDSPRKIIIPSPGKEHFERVLEEYSHQVKDLQRRLNESNELHEKQKFYLRQSVIDLQTKLQ  
EMQMERDAMADIRRESQSQEDLRNQLQNTVHELEAAKCLKEDMLKDSNTQIEQLRKMMML  
SHEGLVQEIRSIILVDFEEASGKKICEHDSMSTLHFRSLGSAISKILRELDTEISYLKGRI  
FPVEDQLEALKSESQNKIELLLQQHQDRIEQLISEHEVEITGLTEKASSARSQANSIQSQ  
MEIIQEQARNQNSMYMRQLSDLESTVSQLRSELREAKMYEDKTEELEKQLVLANSELTE  
ARTERDQFSQESGNLDDQLKLLADLHKREKELSLEKEQNKLWDRDTGNSITIDHLRRE  
LDNRNMEVQRLEALLKALKSECQGMERQMAAIQGKNESLEKVSSLTAQLESTKEMLRKV  
VEELTAKKMTLESSERTISDLTTSLQEKERAIEATNAEITKLRSRVDLKLQELQHLKNEG  
DHLRNVQTECEALKLQMTEDKVIEILRQQIENMTQLVGQHGRTAGAMQVEKAQLEKEIN  
DRRMELKELKILKDKDAKIRELEARVSDLELEKVVLNAGSERLRAVKDIKQERDQLLN  
EVKTSRSELNNLSEYEVLKRNFNRKSEEMEMTTNKLKMLKSAQSELEQTRNTLKSMEG  
SDGHAMKVAMGMQKQITAKRGQIDALQSKIQFLEEAMTNANKEKHFLKEEKSKLSQELST  
VATEKNKMAGELEVLRSQERRLKEKVTNMEVALDKASLQFAECQDIIQRQEQESVRLKLQ  
HTLDIKELQGPGYTSNSSLKPRLLQPASVTRSHSNVPSSQSTASFLSHHSTKANTLKEDP  
TRDLKQLLQELRSVINEEPAVSLSKTEEDGRTSLGALEDVRDCITESSLRSDMCHRSNN  
SLRDSTEGSKSSETLSREPVTLHAGDREDPSGCFTFTSAASPSVKNSASRSFNSSPKKSP  
VHSLTSSVEGSIGSTSQYRSAPKIHSSDSVKDSQSPPIETTGTCTCRKLQNRLESLQTLV  
EDLQLKNQAMSSMIRNQEKRQKVKDQEKMLLK

>sp|P29017|CD1C\_HUMAN T-cell surface glycoprotein CD1c OS=Homo sapiens GN=CD1C PE=1 SV=2

MLFLQLLLALLLPGGDNADASQEHVSFHVIIQFSFVNQSWARGQGSGLDELQTHGWDS  
ESGTIIIFLHNWSKGNFSNEELSDLELLFRFYLFGLTREIQDHASQDYSKYPPFEVQVKAGC  
ELHSGKSPEGFFQVAFNGLDLLSFQNTTWVPSPGCSLAQSVCHLLNHQYEGVTETVYNL  
IRSTCPRFLLGLLDAGKMYVHRQVRPEAWLSSRPSLGSGQLLLVCHASGFYKPVVWTWM  
RNEQEQLGTHGDILPNADGTWYLQVILEVASEEPAGLSCRVRHSSLGGQDIILYWGHHF  
SMNWIALVVIVPLVILIVLVLFKKHCSYQDIL

>sp|Q86Y33|CD20B\_HUMAN Cell division cycle protein 20 homolog B OS=Homo sapiens GN=CDC20B  
PE=1 SV=3

MEWKLERTAPRRVRTEEMLWESIMRVLSKDLKQKRSQDSANVLDSVNATYSDFKSNFAK  
RLSAEVPVASSPITTRWQSQSTRALSSDSFGEEQSTTYLPEASGVLKTPPEKETLTLGS  
RKEQLKTPSKGISETSNSALHFCKAPHAMDRDWKESVASKGQKCLKQLFVTQNVVQQANG  
KMQLCEQSECVWGCKDGVRDESFHLKSSGDINDSILQPEVKIHITGLRNDYYLNILDWS  
FQNLVAIALGSAVYIWNGENHNGIENIDLSLTCNYISSVSWIKEGTCLAVGTSEGEVQLW  
DVVTKKRLRNMLGHLSSVGALSWNHFILSSGSRLGRVYHHDVRAQHHVGTLRHKQAVCA  
LKWSPDGRLLSSGCSGLLTIWPHDPGASAQGPVKVITQSTAVKAMDWCPWQSGVLAIG  
GGMKDGRHLILDINAGKSIQTPSTNSQICSLIWLPKTKEIATGQGTpkNDVTVWTCPTVS  
RSGGFFGHRGRVLHLSLSPDQTRVFSAAADGTASVWNCY

>sp|Q15762|CD226\_HUMAN CD226 antigen OS=Homo sapiens GN=CD226 PE=1 SV=2

MDYPTLLLALLHVYRALCEEVLWHTSVFPAENMSLECVPSMGILTQVEWFKIGTQQDSI

AIFSPTHGMVIRKPYAERVYFLNSTMASNNMTLFFRNASEDDVGYYSCLYTPQGTWQK  
VIQVVQSDSFEAAVPSNSHIVSEPGKNVTLTCQPQMTWPVQAVRWEKIQPRQIDLLTYCN  
LVHGRNFTSKFPRQIVSNCSHGWSVIVIPDVTVSDGLYRCYLQASAGENETFVMRLTV  
AEGKTDNQYTLFVAGGTVLLLLFVISITTIIVIFLNRRRRRERRDLFTESWDTQKAPNNY  
RSPISTSQPTNQSMDDTREDIYVNYPTFSRRPKTRV

>sp|P25063|CD24\_HUMAN Signal transducer CD24 OS=Homo sapiens GN=CD24 PE=1 SV=2  
MGRAMVARLGLLLLLLALLPTQIYSSETTTGTSSNSSQSTSNTGLAPNPTNATTKAAGG  
ALQSTASLFVVSLSLHLHLYS

>sp|P26842|CD27\_HUMAN CD27 antigen OS=Homo sapiens GN=CD27 PE=1 SV=2  
MARPHPWWLCVLGTLVGLSATPAPKSCPERHYWAQGKLCCQMCEPGTFLVKDCDQHRKAA  
QCDPCIPGVSFSPDHHTRPHCESCRHCNSGLLVNRCTITANAECACRNGWQCRDKECTEC  
DPLPNPSLTARSSQALSPHPQPTLPHYVSEMLEARTAGHMQTLADFRQLPARTLSTHWPP  
QRSLCSSDFIRILVIFSGMFLVFTLAGALFLHQRRKYRSNKGESPVPAEPCHYSCPREE  
EGSTIPIQEDYRKPEPACSP

>sp|Q8IX05|CD302\_HUMAN CD302 antigen OS=Homo sapiens GN=CD302 PE=1 SV=1  
MLRAALPALLPLLLGLAAAAVADCPSSTWIQFQDSCYIFLQEAIKVESIEDVRNQCTDHG  
ADMISIHNEEENAFILDTLKKQWKGPDDILLGMFYDTDDASFkwFDNSNMFTDKWTDQDD  
DEDLVDTC AFLHIKTGEWKGNCEVSSVEGTLCKTAIPYKRKYLSDNHILISALVIASTV  
ILTVLGAIIWFLYKKHSDSRFTTVFSTAPQSPYNEDCVLVVGEENEYPVQFD

>sp|P28906|CD34\_HUMAN Hematopoietic progenitor cell antigen CD34 OS=Homo sapiens GN=CD34  
PE=1 SV=2  
MLVRRGARAGPRMPRGWTALCLLSLLPSGFMSLDNNGTATPELPTQGTFSTNVSTNVSQYQ  
TTTTSTLGSTSLHPVSQHGNEATTNITETTVKFTSTSVITSVYGNTNSSVQSQTSVISTV  
FTTPANVSTPETTLKPSLSPGNVDLSTTSTSLATSPTKPYTSSSPILSDIKAEIKCSGI  
REVKLTQGICLEQNTSSCAEFKKDRGEGLARVLCGEEQADADAGAVCSLLLAQSEVRP  
QCLLLVLNARTEISSKLQLMKKHQSDLKKLGILDFTEQDVASHQSYSQKTLIALVTSGAL  
LAVLGITGYFLMNRWSPTGERLGEDPYTENGSGGQGYSSGPGTSPEAQGKASVNRGAQ  
ENGTGQATSRNGHSARQHVVADTEL

>sp|P29965|CD40L\_HUMAN CD40 ligand OS=Homo sapiens GN=CD40LG PE=1 SV=1  
MIETYNQTSRPAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLH  
EDFVFMKTIQRCNTGERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENSFEMQKGDQNP  
QIAAHVISEASSKTSVLQWAEKGYTMSNNLVTLENGKQLTVKRQGLYYIYAQVTFCSN  
REASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLGGVFELQPGASVFN  
VTDPSQVSHGTGTSFGLLKL

>sp|043866|CD5L\_HUMAN CD5 antigen-like OS=Homo sapiens GN=CD5L PE=1 SV=1  
MALLFSLILAICTRPGFLASPSGVRLVGGLHRCGRVEVEQKQWGTVCDDGWDIKDVAV  
LCRELGC GAASGTPSGILYEPAPAEKEQKVLIQSVSCTGTEDTLAQCEQEEVYDCSHDEDA  
GASCENPESSFSPVPEGVRLADGPGHCKGRVEVKHQNQWYTVCTGWSLRAAKVVCRLG  
CGRAVLTKKRCNKHAYGRKPIWLSQMCSGREATLQDCPSGPWGKNTCNHEDTWTVECED  
PFDLRLVGGDNLCGRLEVLHKGWVGSVCDDNWGEKEDQVVKQLGCGKSLSPSFRDRKC  
YGPVGRIWLDNVRCSGEEQSLEQCQHRFWGFHDCTHQEDVAVICSG

>sp|P01732|CD8A\_HUMAN T-cell surface glycoprotein CD8 alpha chain OS=Homo sapiens GN=CD8A  
PE=1 SV=1  
MALPVTALLPLALLLHAARPSQFRVSPLDRTWNLGETVELKQVLLSNPTSGCSWLFQP

RGAAASPTFLLYLSQNKPKAAEGLDTQRFSGKRLGDTFVLTLSDFRRENEGYFCSALSN  
SIMYFSHFVPVFLPAKPTTTPAPRPPTPAPTIASQPLSLRPEACRPAAGGAVHTRGLDFA  
CDIYIWAPLAGTCGVLLLSLVITLYCNHRNRRRVCKCPRPVVKS GDKPSLSARYV

>sp|P14209|CD99\_HUMAN CD99 antigen OS=Homo sapiens GN=CD99 PE=1 SV=1

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDVAVV  
DGENDDP RPPNPPKMPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEE  
ADAPGVIPGIVGAVVVAVAGAISSFIAYQKKKLCFKENAEQGEVDMESHNRNANAEPVQR  
TLLEK

>sp|Q96GN5|CDA7L\_HUMAN Cell division cycle-associated 7-like protein OS=Homo sapiens  
GN=CDCA7L PE=1 SV=2

MELATRYQIPKEVADIFNAPSDDEEFVGFRRDDVPMETLSSEESCDSFDSLESGKQDVRF  
HSKYFTEELRRIFIEDTSETEDFAGFTQSDLNKGTNPEVMVVEDLSDDGKASLVSEEE  
EDEEEDKATPRRSRSTRSSIGLRVAFQFPTKKLANKPDKNSSSEQLFSSARLQNEKKTIL  
ERKKDCRQVIQREDSTSESEDDSRDESQESSDALLKRTMNIKENKAMLAQLLAELNSMPD  
FFPVRTPTSASRKKTVRRAFSEGQITRRMNPTRSARPPEKFALENFTVSAAKFAEEFYF  
RRRKTIGGKCREYRRRHRISSFRPVEDITEEDLENAVITVRDKIYDKVLGNTCHQCRQKT  
IDTKTVCRNQGCCGVRGQFCGPCLRNRYGEDVRSALLDPDWVCPPCRGCNCSSYCRKRDG  
RCATGILIHAKFYGYDNVKEYLES LQKELVEDN

>sp|Q12834|CDC20\_HUMAN Cell division cycle protein 20 homolog OS=Homo sapiens GN=CDC20  
PE=1 SV=2

MAQFAFESDLHSLQLDAPIPNAPPARWQRKAKEAAGPAPSPMRAANRSHSAGRTPGRTP  
GKSSSKVQTTPSKPGGDRYIPHRSAQMEVASFLLSKENQPENSQTPTKKEHQKAWALNL  
NGFDVEEAKILRLSGKPQNAPEGYQNRLLKVLYSQKATPGSSRKTCRYIPSLPDRILDAPE  
IRNDYYLNLVDWSSGNVLAVALDNSVYLWSASSGDILQLLQMEQPGEYISSVAWIKEGNY  
LAVGTSSAEVQLWDVQKRLRNMTSHSARVGSLSWNSYILSSGSRSGHIIHHHDVRVAEH  
HVATLSGHSQEVCGLRWAPDGRHLASGGNDNLNVNWPSAPGEGGWVPLQTFTQHQA VKA  
VAWCPWQSNVLATGGGTSRHIRIWNVCSGACLSAVDAHSQVCSILWSPHYKELISGHGF  
AQNLVIWKYPTMAKVAELKGHTSRVLSLTMSPDGATVASAAADETLRLWRCFELDPARR  
REREKASAAKSSLIHQGIR

>sp|P60953|CDC42\_HUMAN Cell division control protein 42 homolog OS=Homo sapiens GN=CDC42  
PE=1 SV=2

MQTIKCVVVGDAVGKTCLLISYTTNKFPEYVPTVFDNYAVTVMIGGEPYTLGLFDTAG  
QEDYDRLRPLSYPQTDVFLVCFSVVSPSSFENVKEKWPEITHHCPKTPFLLVGTQIDLR  
DDPSTIEKLAKNKQKPITPETAELKARDLKAVKYVECSALTQKGLKNVFDEAILAALEPP  
EPKKSRRCVLL

>sp|Q99741|CDC6\_HUMAN Cell division control protein 6 homolog OS=Homo sapiens GN=CDC6  
PE=1 SV=1

MPQTRSQAQATISFPKRKLSRALNKAKNSSDAKLEPTNVQTVTCSPRVKALPLSPRKRLG  
DDNLNCTPHLPPCSPPKQGGKENGPPHSHTLKGRRLVFDNQLTIKSPSKRELAKVHQNKI  
LSSVRKSQEITTNSEQRCLPKKESACVRLFKQEGTCYQAKLVLNTAVPDRLPAREREMD  
VIRNFLREHICGKKAGSLYLSGAPGTGKTACLSRILQDLKKELKGFKT IMLNCMSLRTAQ  
AVFPAIAQEICQEEVSRPAGKDMMRKLEKHMTAEKGPMIVLVLEMDQLDSKGQDVLYTL  
FEWPWLSNSHLVLIGIANTLDLTDRILPRLQAREKCKPQLNFPPYTRNQIVTILQDRLN  
QVSRDQVLDNAAVQFCARKVSAVSGDVRKALDVCRAIEIVESDVKSQTI LKPLSECKSP

SEPLIPKRVGLIHISQVISEVDGNRMTLSQEGAQDSFPLQQKILVCSMLLIRQLKIKEV  
TLGKLYEAYSKVCRKQQVAAVDQSECLSLSGLLEARGILGLKRNETRLTKVFFKIEEKE  
IEHALKD KALIGNILATGLP

>sp|Q69YH5|CDCA2\_HUMAN Cell division cycle-associated protein 2 OS=Homo sapiens GN=CDCA2  
PE=1 SV=2

MDANSKDKPPETKESAMNNAGNASFILGTGKIVTPQKHAE LPPNPCTPDTFKSPLNFS TV  
TVEQLGITPESFVRNSAGKSSSYLKKRRRS AVGARGSPETNHLIRFIARQQNIKNARKS  
PLAQDSPSQGSPALYRNVTLRERISAFQSAFHSIKENEKMTGCLEFSEAGKESEMTDLT  
RKEGLSACQQSGFPAVLSSKRRRISYQRSDENLTD AEGKVI GLQIFNIDTDRACAVETS  
VDLSEISSKL GSTQSGFLVEESLPLSELTETSNALKVADCVVGKGSSDAVSPDTFTA EVS  
SDAVPDVRSPATPACRRDLTPKTFVLRSVLKKPSVKMCLESLQEH CNNLYDDDGH TPSL  
ISNLPNCCKEKEAEDEENFEAPAF LNMRRKR RVTFGEDLSPEVFDES L PANTPLRKG GTP  
VCKKDFSG LSSLLLEQSPVPELPQPDFDDKGENLENI EPLQVSFAVLSSPNKSS ISETL  
SGTDTFSSSNHEKISSPKVGRITRTSNRRNQLVSVVEESVCNLLNTEVQPCKEKKINRR  
KSQETKCTKRALPKKSQVLKSCRKKKGKKSQVQS L YGERD IASKKPLLSP IPELPEVP  
EMTPSIPSIRRLSGYFSSNGKLEE VKTPKNPVKRKDLLRHDPDLHMHQGYDKYDVSEFC  
SYIKSSSSSLGNATSD EDPNTNIMNINENKNIPKAKNKSESENEPKAGT DSPVSCASVTEE  
RVASDSPKPALTLQQGQEF SAGGQNAENLCQFFKISPDLN IKCERKDDFLGAAEGKLQCN  
RLMPNSQK DCHCLGDVLI ENTKESSQS EDLGRKPMESSSVVSCRDRKDRRRSMCYSDGR  
SLHLEKGNHNT PSSSVGSSVEISLENS ELFKDLSDAIEQTFQRRNSETKVRRSTR LQKDL  
ENEGLVWISLPLPSTSQAKRRTICTFDSSGFESMSP IKETVSSRQKPQMAPPVSDPENS  
QGPAAGSSDEPGRRRKSFCISTLANTKATSQFKGYRRRSS L NGKGESSLTALERIEHNGE  
RKQ

>sp|P32320|CDD\_HUMAN Cytidine deaminase OS=Homo sapiens GN=CDA PE=1 SV=2

MAQKR PACTLKPECVQQLLVCSQEAKKSAYCPYSHFPVGAALLTQEGRIFKGCNIENACY  
PLGICAERTAIQKAVSEGYKDFRAIAIASDMQDDFISPCGACRQVMREFGTNWPVYMTKP  
DGTIYIMTVQELLPS SFGPEDLQKTQ

>sp|Q9H305|CDIP1\_HUMAN Cell death-inducing p53-target protein 1 OS=Homo sapiens GN=CDIP1  
PE=1 SV=1

MSSEPPPPYPGGPTAPLLEEKSGAPPTPGRSSPAVMQPPPGMPLPPADIGPPPYEPPGHP  
MPQPGFI PPHMSADGTYMPPGFYPPPGPHPPMGYYPPGPYTPGPYPGPGGHTATVLVPSG  
AATTVTVLQGEIFEGAPVQTVCPHCQQAITTKISYEIGLMNFVLGFFCCFMGCDLGCCLI  
PCLINDFKDVTHTCPSC KAYIYTYKRLC

>sp|Q00536|CDK16\_HUMAN Cyclin-dependent kinase 16 OS=Homo sapiens GN=CDK16 PE=1 SV=1

MDRMKKIKRQLSMTLRGGRIDKTNGAPEQIGLDESGGGGSDPGEAPTRAAPGELRSAR  
GPLSSAPEIVHEDLKMGS DGESDQASATSSDEVQSPVRVRMRNHPPRKISTEDINKRLSL  
PADIRLPEGYLEKLTLSNPIFDKPLSRRLRRVSLSEIGFGKLETYIKLDKLGE GTYATVY  
KGKSKLTDNLVALKEIRLEHEEGAPCTAIREVSLLKDLKHANIVTLHDI IHTEKSLTLVF  
EYLDKDLKQYLD DCGNIINMHNVKLFLFQLLRGLAYCHRQKVLHRDLKPQNLLINERGEL  
KLADFG LARAKSIPTKTYSNEVTLWYRPPDILLGSTDYSTQIDMWGVGCIFYEMATGRP  
LFPGSTVEEQ LHFIFRILGTPTEETWPGILSNEEFKTYNYPKYRAEALLSHAPRLSDGA  
DLLTKLLQFEGRNRISAEDAMKHPFFLSLGERIHKLPDTTSIFALKEIQLQKEASLRSSS  
MPDSGRPAFRVVDTEF

>sp|Q8IZL9|CDK20\_HUMAN Cyclin-dependent kinase 20 OS=Homo sapiens GN=CDK20 PE=1 SV=1

MDQYCILGRIGEGAHGIVFKAKHVETGEIVALKKVALRRLEDGFPNQALREIKALQEMED  
NQYVVQLKAVFPHGGGFVLAFEFMLSDLAEVVRHAQRPLAQAQVKSYLQMLLKGVAFCHA  
NNIVHRDLKPANLLISASGQLKIADFGLARVSPDGSRLYTHQVATRWYRAPELLYGARQ  
YDQGVDLWSVGCIMGELLNGSPLFPKGNDIEQLCYVLRILGTPNPQVWPELTELDPYNKI  
SFKEQVPMPLLEEVLPDVSPQALDLLGQFLLYPPHQRIAASKALLHQYFFTAPLPAHPSEL  
PIPQRLGGPAPKAHPGPPHIHDFHVDRLPLEESLLNPELIRPFILEG

>sp|P38936|CDN1A\_HUMAN Cyclin-dependent kinase inhibitor 1 OS=Homo sapiens GN=CDKN1A PE=1  
SV=3

MSEAGDVRQNPCGSKACRRLLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLE  
GDFAWERVRLGLPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEDHVDLSLSCTLV  
PRSGEQAEGSPGGPGDSQGRKRRQTSMTDFYHSKRRLIFSRRKP

>sp|Q9Y6F7|CDY2\_HUMAN Testis-specific chromodomain protein Y 2 OS=Homo sapiens GN=CDY2A  
PE=1 SV=1

MASQEFEEVAIVDKRQDKNGNTQYLVRWKGYDKQDDTWEPEQHLMNCEKCVHDFNRRQTE  
KQKKLTWTTTSRIFSNNARRRSTRSTKANYSKNSPKTPVTDKHHRSKNCKLFAASKNVRR  
KAATLSDTKNMEIINSTIETLAPDSPFDHKKTVSGFQKLEKLDPIAADQQDTVVKVTE  
GKLLRDPLSHPGAEGTGIQNKTMHPLMSQMSGSVTASMATGSATRKGIIVLIDPLAANG  
TTDMHTSVPRVGGQRNITDDSRGQPFIKMHFTIRLTESAITYRDIIVVKEDGFTQIVL  
STRSTEKNALNTEVIKEMVNALNSAAADDSKLVLFSAAGSVFCCGLDFGYFVRHLRNDRN  
TASLEMVDTIKNFVNTFIQFKKPIVSVNGPAIGLGASILPLCDLVWANEKAWFQTPYTT  
FGQSPDGCSSITFPKMMGKASANEMLIAGRKLTAAREACAKGLVSQVFLTGFTQEVMIQI  
KELASYNAIVLEECKALVRCNIKLELEQANERECEVLRKIWSSAQGIESMLKYVENKIDE  
F

>sp|Q8NAS9|CE017\_HUMAN Uncharacterized protein C5orf17 OS=Homo sapiens GN=C5orf17 PE=2  
SV=1

MPEPPTPSVGSCAARASRMSAAPCSRAPSPIDHPRAEECGRAARDWQAAPPAAPVRDPLG  
EASWAPESGEDMENLYVQLKLQSVGTCFNREELPSVLQWPQGEELGATSVTNKPGLSAMR  
KETDQQVGERKLTTCGDQVTLFTDQALSQILSSEEGRIKVM

>sp|A6NDU8|CE051\_HUMAN UPF0600 protein C5orf51 OS=Homo sapiens GN=C5orf51 PE=1 SV=1

MAAAVSSVVRVVEELGDLAQAHQQQLSEAAGEDDHFLIRASAALEKLKLLCGEEKECSNP  
SNLLELYTQAILDMTYFEENKLVDDEFPEDSSSQVKELISFLSEPEILVKENNMHPKHC  
NLLGDELLECLSWRRGALLYMYCHSLTKRREWLLRKSSLLKKYLLDGISYLLQMLNYRCP  
IQLNEGVSFQDLDTAKLLSAGIFSDIHLLAMMYSGEMCYWGSKYCADQQPENHEVDTSVS  
GAGCTTYKEPLDFREVGEKILKKYVSVCEGPLKEQEWNTTNAKQILNFFHRCN

>sp|O60308|CE104\_HUMAN Centrosomal protein of 104 kDa OS=Homo sapiens GN=CEP104 PE=1 SV=1

MPHKIGFVVVSSSGHEDGFSARELMIHAPTIVSGWRSRPFQFPQEIVLQMVERCRIRKLQ  
LLAHQYMISSKIEFYISESLPEYFAPYQAERFRRLGYVSLCDNEKTGCKARELKSYYVDA  
VGQFLKLIFHQNHVNKYNINQVALVAINIIGDPADFSDESNTASREKLIDHYLGHNSED  
PALEGTYARKSDYISPLDDLAFDMYQDPEVAQIIRKLDERKREAVQKERYDYAKKLKQAI  
ADLQKVGERLGRYEVEKRCAVEKEDYDLAKEKKQQMEQYRAEVYEQLELHSLDLAELMRR  
PFDLPLQPLARSGSPCHQKPMPSLPQLEERGTEQFAEPFLQEKPSYSILTISPQHSADV  
PLLATDPHPKINAESLPYDERPLPAIRKHYGEAVVEPEMSNADISDARRGGMLGEPEPL  
TEKALREASSAIDVLGETLVAEAYCKTWSYREDALLALSKKLMEMPVGTPKEDLKNTLRA  
SVFLVRRRAIKDIVTSVFQASLKLLKMIITQYIPKHKLSKLETAHCVERTIPVLLTRTGDS



SARLRVTAANFIQEMALFKEVKS LQIIPSYLVQPLKANSSVHLAMSQMGLLARLLKDLGT  
GSSGFTIDNVMKFSVSALEHRVYEVRETAVRIILD MYRQH QASILEYLPPDDSNTRRNIL  
YKTI FEGFAKIDGRATDAEMRARRKAATEEA EKQKKEEIKALQGQLAALKEIQA EVQEKE  
SDAVKPKNQDIQGGKAAPAEALGIPDEHYLDNL CIFCGERSESFTEGLDLHYWKHCLML  
TRCDHCKQVVEISSLTEHLLTECDKKDGF GKCYRCSEAVFKEELPRHIKHKDCNPAKPEK  
LANRCPLCHENFSPGEEAWKAHLMGPAGCTMNL RKTHILQKAPALQPGKSSAVAASGPLG  
SKAGSKIPTPKGGLSKSSSRTYAKR

>sp|Q9P2H0|CE126\_HUMAN Centrosomal protein of 126 kDa OS=Homo sapiens GN=CEP126 PE=1 SV=3

MLAGRPGTRSAVGELGTESSDNLDRAPLGPRESGGHRPGSYLDMKIHLEKNLEERQIL  
LQQQKICRNRARKYFVESNRRKKA FE EK RKEQE EKEHQIREQILQQRKQKFEEVTEKFQR  
AHVPLSQRRKAVSRKPVPPLEEALKQIQESNLKSEVNL PFSRRPTINWRAIDSALPSALS  
KNDHKHQQLLSKINCEKEMNENMRATLATS KNV FQLKEETQK LLEDQHLSNLQKFGDE  
VNQITNSETLSSIDSLEATEHEEIIYLT LNKEHSTS IQRNTISLK PANMQSTNLSCFDEDK  
LAFSKTQHINNWL TNLDASNTQNVTA FS DILSKSNVLP SWEYFNSKEQNP SPLNGTVERA  
TNTANNSVPFVSSPPMFVLDDKCEKTSETSTMRTDSTSGAFKRERPLVTESPTFKFSKS  
QSTSDSLTQEVATFPDQEKYSELNQENGTTSIPTSCVPVATPLVLPSNIQSARPSAKNSI  
HIKEIDAVQCSDKLDELKDGKEEEIKYFNCNKEELPLFSDSFQDAYIPHNPDSKDEKQKL  
AETSSLSNVTSNYDFVGQHKMKYNIHERNGVRFLKSILKKE SKYEHGYLKALIINQSFK  
FGNQKAAAIRDSIELTKEKGAEIPKTIKKLRWFDETSNIENNAENSHSLKNKTGTTQQHS  
QQFHIQSGAGSNII SVSTCAVNSADTKKSREDSISENVTLGGSGADHMLNCFIPSGYN  
FAKHAWPASKKEESKIPVHDDSKTKQGKPQRGRAKII RKPGSAKVQSGFICTNRKGA VIQ  
PQSASKVNIFTQAQGLIIPC PPPQSTSNIRSGKNIQVSQCQPVTPENPQNIITHNSFNS  
KHVLPTEHSLNQWNQESSSPLSNACSDLVTVIPSLPSYCSSECQTFAKINH SNGTQAVAR  
QDATLYCTQRSPVCEESYPSVTLRTAEESVPLWKRGP NVLHQNK RATGSTVMRRKRIAE  
TKRRNILEQKRQNP GSVGQKYSEQINNFGQSVLLSSSEPKQTTRGTSYIEEVSDTSEFL  
MAENLVKASVPEDEILTVLNSKQIQKSNLPLNKTQQFNICTLSAEEQKILESLNDLSERL  
HYIQESICKNPSIKNTLQIIP LLEKREDRTSSCRDKR

>sp|Q5SW79|CE170\_HUMAN Centrosomal protein of 170 kDa OS=Homo sapiens GN=CEP170 PE=1 SV=1

MSLTSWFLVSSGGTRHRLPREMIFVGRDDCELMLQSRSDVKQHAVINYDASTDEHLVKDL  
GSLNGTFVNDVRIPEQTYITLKLEDKLRFGYDTNLFTVVQGEMRVPEEALKHEKFTIQLQ  
LSQKSSESELSKSASAKSIDSKVADAATEVQHKTTEALKSEEKAMDISAMPRGTPLYGQP  
SWWGDDDEVDEKRAFKTNGKPEKNHEAGTSGCGIDAKQVEEQSAAANEVLF PFCREPSY  
FEIPTKEFQQPSQITESTIHEIPTKDT PSSHITGAGHASFTIEFDDSTPGKVTIRDHVTK  
FTSDQRHKS KSSPGTQDL LGIQTGMMAPENKVADWLAQNPPQMLWERTEEDSKSIKSD  
VPVYLKRLKGNKHDDGTQSDSENAGAHRRCSKRATLEEHLRRHHSEHKKLQKVQATEKHQ  
DQAVTSSAHHRGGHGVPHGKLLKQKSEEPSVIPFLQTALLRSSGSLGHRPSQEMDKMLK  
NQATSATSEKDNDDQSDKGYTIELENPNSEEV EARKMIDKVFGVDDNQDYNRPVINEK  
HKDLIKDWALSSAAAVMEERKPLTTS GFHHSEEGTSSSGSKRWVSQWASLAANHTRHDQE  
ERIMEFSAPLPLENETEISESGMTVRSTGSATSLASQGERRRRTL PQLPNEEKSLESHRA  
KVV TQRSEIGE KQDELQEKETPTQVYQKDKQDADRPLSKMNRAVNGETLKTGGDNKTLL  
HLGSSAPGKEKSETDKETSLVKQTLAKLQQQE QREEAQWPTKLSSKNVSGQTDKCREET  
FKQESQPPEKNSGHSTSKGDRVAQSESKRRKAEEILKSQTPKGGDKKESKSLVRQGSFT  
IEKPSNPIELIPHINKQTSSTPSSLALTSASRIRERSESLDPDSSMDTTLILKDTEAV  
MAFLEAKLREDNKTD EGPDTPSYNRDNISPESDVDTASTISLVTGETERKSTQKRKSFT

SLYKDR CSTGSPSKDVTKSSSSGAREKMEKKTCSRSTDVGSRADGRKFVQSSGRIRQPSV  
DLTDDQ TSSVPHSAISDIMSSDQETYSCKPHGRTPLTSADEHVH SKLEGSKVTKSKTSP  
VVSGSSSKSTTLPRPRTRTSLRRARLGEASDSELADADKASVASEVSTTSSTSKPPTG  
RRNISRIDLLAQPRRTRLGSLARS DSEATISRSSASSRTAEAIIRSGARLVPSDKFSPR  
IRANSISRLSDSKVKSMTSAHGSASVNSRWRRFPTDYASTSEDEFGSNRNSPKHTRLRTS  
PALKTTRLQSAGSAMPTSSSFKHRIKEQEDYIRDWTAHREEIARISQDLAL IAREINDVA  
GEIDSVTSSGTAPSTTVSTAATPGSAIDTREELVDRVFDESLNFRKIPPLVH SKTPEGN  
NGRSGDPRPQAAEPPDHLTITRRRTWSRDEVMGDNLLSSVFQFSKKIRQSIDKTAGKIR  
ILFKDKDRNWDDIESKLRAESEVPIVKTSSMEISSILQELKRVEKQLQAINAMIDPDGTL  
EALNNMGFPSAMLPSPPKQKSSPVNNHSPGQTPTLGQPEARALHPAAVSAAAEFENAES  
EADFSIHFNRFNPDGEEEDVTVQE

>sp|Q9C0D2|CE295\_HUMAN Centrosomal protein of 295 kDa OS=Homo sapiens GN=CEP295 PE=1 SV=4

MKRKVVNTHKLRLSPNEEAFILKEDYERRRKLRLQLVREQERDIALQIREDIKQRRNQF  
TRLAEELRAEWEESQTQKIQNLEKLYLASLRSMGEGHRQAKENEPDL DALAQRAAERKRK  
ADLRHKEALKVQKNQKEILLKQKTWHIKARKEALLVEKERSAKITSLPPPPTLFENIEV  
KRISAVKTNSTYHHLHTFVNRETDTKRPDARLAAEEEAKRLEELQKQAAQERMERFEKA  
HVRGFQAMKKIHLAQNQEKLMKELKQLQEDLARRRQTVAQMPPQLVELPYKRSEMKEDW  
QRELEFAFEDMYNADRKVKGNLILHLEPEPLPTVTNQIQDEELDLSMEQENLGAAEDLPV  
TEAEICSSSETDVPLVMKTQQIPSKVLFKKLLNKIRSQKSLWTIKSMSSEDESEMITTVSEI  
ESKAPTVESGTIASKERTLSSGQEQVVESDTLTIESGPLASEDKPLSCGTNSGKEQ EINE  
TLPITTVAQSSVLLHPQEAARIRMSARQKQIMEIEEQKQKQLELLEQIEQKQLRLETDC  
FRAQLEEEKRKKQTPTGVGIAPASCPVISDEDSHRQMIRNYQHLLQQNRLHRQSVETAR  
KQLLEYQTMLKGRCPSVSAPSLITDSVISVPSWKSERPTAISEHWDQGQRLKLSPNKYQP  
IQPIQTSKLEQDHFQVARQNHFPQRQVETTETLRASDILT NQALESQEHLRQFSQTETQQ  
RDYKLVPKDSETLSRALSHDRQLISQDARKISETFGATTQFSLESQQLFSENSENISYHL  
TEPSSFVPLVPQHSFSSLPVKVESGKIQEPFSAMSKSTVSTSHSIISQMHDRPLLPSENI  
TAQQGNMKALQEQLDLQKKVLQATQEAQEQLLLCKQKEVEQQTGLSVFLPLVTPDSSALL  
PSAKADLGRIQESSPTKNNAIVSSDHHVISQLQDKRLSLSQPILSQNNFKFLQEQLNIQ  
KDSLQARREAQEVLYVHKQSELDRRCSEQAEPSPFPQVAQHTFTSLPSADTKSGKIQEQ  
HSSKSEKGLVSCQSDIPISQDGSLSFLQQFLPLHDSLKLLQEQLTKQRDTLQARHEAQVE  
LLLHRQRDLGDSKGLVSSSSSPVVVQHSVASQASAKAEPRIQELYLSEKENVGPSCHL  
IIPTFQDKSLSFQHS LAQQENLTILQEQSQIQRVILGAKEGTQEFVHTESELEKRISSE  
QTGTSSSLSQVDESERFQECISIKSDSTIPLSHPKIPRCQERLLRVSQHMLPLQDNLEEH  
QAWLDETEKEAFHFSQKTQENTSSSEQTGSSSFIPQLVQLSFTSLASAESGTILEPLFTESE  
SKIFSSHLQIPQLQDRLLRISQLIQPQQDNL KALQEQLATQREAILARQEAAREELLHQ  
SEWEGRISPEQVDTSSLPLVPQHSFASLPLNESERNQEP CSINSDNIVSSGHSEIPTLPD  
GLLGLSHLVLPQQDNLIALEEHLHAQTDFLPSIEKTQKELVLSKPCKFEEKVSSEHFIQS  
HHGDLQALQQQLDTQKKAIRS IQEVQEELLQRLSELEKRVSSSEQVCSSSFVSQVPVADS  
ERTQKSFP TKSNDTLPSSHREIPRLQDRLLSLSKPILPQQDNMTAQLDAQREV MYSEKP  
QEELSLNKQRKLNKSESAEHTIPSLFLPKETEHSFIPLPFAEAKPKSTCELYSSQNEHAA  
PPSNPVIPGFDRLLSFSQSVLTQQDNLGLQKQLDLQREVLHYSQKAQEKL LVQRQTALQ  
QQIQKHEETLKDFFKDSQISKPTVENDLKTQKMGQLRDWFPNTQDLAGNDQENIRHADRN  
NSDDNHLASEDTS AKQSGEHLEKDLGRRSSKPPVAKVKCGLDLNQHEL SAIQEVESPAIG  
RTSILGKPGIYEDRDPLRV SISREQSFSGSPLAHPFSC LQLVGQENVCGDDYDEAVKLK

ESVVENHAVLSYAVEEEHAYLGPTVKPDDKAKTLSYEPLSSATVSTGSLLSYENTDLSLT  
DPESFSEHMDDSKQESTTSKEEETNI ISSIVPSTQDIYQRQNSSDVHKSLLPAVDETTG  
HTHFQQMIDKYINEANL IPEKTDLQLEHIFPNLHHQLFKPLEPHPDFDLSSSSSGISPD  
NRDFYQRSDSSSESHCATGLSKSTVYFTALRRTSMHSSLNTSPNQPDNLAHVGAHSFA  
TENI IGGSEQCFEQLQPEYSSQEESEQHADLPSIFSIEARDSSQGMKNQNPSEEHTEILQ  
NKKKIVHFQLSIGNLSSVYSSSDEANVFDQLNVQHSTPCGSNSSECSTKHQLESRKESMG  
FEELSKRGVVTMLQSQGLIEDNKNETCRVLDINPQVEETDSRLCVRTVMGTSIQAPYSL  
TTQNEKYFENSAETDIPKITKKLSQLGESELFASSGSFSLQSSIPVWETETGHGIMEEPE  
LTLISTDTSIAEMDFANLTLEEKSENEAKCFFQVSEFLPLVSATEASDYPAVSELSIEK  
PRTASTETPRRLTPVPGSLQEAFIKRKKSFMERSHQKKEIRNKIHVSENSQIKTVKEKP  
SISSSVSRLKGVNKVRASFPEDRKTTQALRHQRGLRLYNQLAEVKQKKEEKTQEAYAQN  
RARAKEFHKKTLEKLRAKNTC

>sp|P13688|CEAM1\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 1 OS=Homo sapiens GN=CEACAM1 PE=1 SV=2

MGHLSAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLLVHNLQP  
QLFGYSWYKGERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVTQNDTGFY  
TLQVIKSDLVNEEATGQFHVPELPKPSISSNNSNPVEDKDAVAFTCEPETQDTTYLWWI  
NNQSLPVSPRLQLSNGNRTLTLSSVTRNDTGPYECEIQNPVSANRSDPVTNLNVTYGPDP  
TISPSDTYYRPGANLSLSCYAASNPPAQYSWLINGTFQQSTQELFIPNITVNNSGSYTCH  
ANNSVTGCNRTTVKTIIVTELSPVVAKPQIKASKTTVTGDKDSVNLTCSTNDTGISIRWF  
FKNQSLPSSERMKLSQGNTTSLNPVKREDAGTYWCEVFNPISKQSDPIMLVNRYNALP  
QENGLSPGAIAGIVIGVVALVALIAVALACFLHFGKTGRASDQRDLTEHKPSVSNHTQDH  
SNDPPNKMNEVITYSTLNFEEAQQPTQPTSASPSLTATEIIYSEVKKQ

>sp|075871|CEAM4\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 4 OS=Homo sapiens GN=CEACAM4 PE=1 SV=2

MGPPSAAPRGHRPWQGLLITASLLTFWHPPTTVQFTIEALPSSAAEGKDVLLACNISE  
TIQAYYWHKGKTAEGSPLIAGYITDIQANIPGAAYSGRETVYPNGSLLFQNTLEDAGSY  
TLRTINASYSDSQATGQLHVHQNVPGLPVGAVAGIVTGVLVGVALVAALVCFLLSRTG  
RASIQRDLREQPPASTPGHGPSHRSTFSAPLSPRTATPIYEELLYSDANIYCQIDHKA  
DVVS

>sp|Q14002|CEAM7\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 7 OS=Homo sapiens GN=CEACAM7 PE=1 SV=1

MGSPSACPYRVCIPWQGLLLTASLLTFWNLPNSAQTNIDVVPFNVAEGKEVLLVHNESQ  
NLYGYNWYKGERVHANYRIIGYVKNISQENAPGAHNGRETIYPNGTLLIQNVTHNDAGF  
YTLHVIKENLVNEEVTRQFYVFSEPPKPSITSNNFNPVENKDIVVLTQCPETQNTTYLWW  
VNNQSLLVSPRLLLSTDNRTLVLSSATKNDIGPYECEIQNPVGASRSDPVTNLNRYESVQ  
ASSPDLSAGTAVSIMIGVLGMAI

>sp|P49715|CEBPA\_HUMAN CCAAT/enhancer-binding protein alpha OS=Homo sapiens GN=CEBPA PE=1 SV=3

MESADFYEAEP RPPMSSHLQSPHAPSSAAFGFPRGAGPAQPPAPPAAPEPLGGICEHET  
SIDISAYIDPAAFNDEFLADLFQHSRQKEKAKAAVGPTGGGGGGDFDYPGAPAGPGGAVM  
PGGAHGPPPGYGCAAAGYLDGRLEPLYERVGAPALRPLVIKQEPREDEAKQLALAGLFP  
YQPPPPPPPSHPHPHPPPAHLAAPHLQFQIAHCGQTTMHLQPGHPTPPPTPVPSHPAPA  
LGAAGLPGPGSALKGLGAHPDLRASGGSGAGKAKKSVDKNSNEYRVRERNNIAVRKSR

DKAKQRNVETQQKVLELTSDNDRLRKRVEQLSRELDTLRGIFRQLPESSLVKAMGNCA

>sp|Q9NZK5|CECR1\_HUMAN Adenosine deaminase CECR1 OS=Homo sapiens GN=CECR1 PE=1 SV=2

MLVDGPSPERPALCFLLLAVAMSFSGSALSIDETRAHLLLKEKMMRLGGRLVLNTKEELAN  
ERLMTLKIAEMKEAMRTLIFPPSMHFFQAKHLIERSQVFNILRMPKGAALHLHDIGIVT  
MDWLVRNVTYRPHCHICFTPRGIMQFRFAHPTPRPSEKCSKWILLEDYRKRVQNVTEFDD  
SLLRNFTLVTQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNV  
LYMEIRARLLPVYELSGEHDEEWSVKTYQEVAQKFVETHPEFIGIKI IYSDHRSKDVAV  
IAESIRMAMGLRIKFPTTVAGFDLVGHEDTGHSLHDYKEALMIPAKDGVKLPYFFHAGET  
DWQGTSIDRNILDALMLNTTRIGHGFALS KHPAVRTYSWKDIP IECPI SNQVLKLVSD  
LRNHPVATLMATGHPMVISSDDPAMFGAKGLSYDFYEVFMGIGGMKADLRTLKQLAMNSI  
KYSTLLESEKNTFMEIWKKRWDKFIADVATK

>sp|Q86SI9|CEI\_HUMAN Protein CEI OS=Homo sapiens GN=C5orf38 PE=2 SV=1

MVAPAA RVFLRAVRAALTSTVPDLLCLLARGSPRGLASGRPLAVHSAQHGP GSGAPWLR  
IARRALRFVLSKHWDCCYL TNRLWQDLKPPSHVENGGELRLAPPVQWALQVQGNQLQTA  
VLCLRMAPPPEPAGSRQRI

>sp|Q9UNI1|CELA1\_HUMAN Chymotrypsin-like elastase family member 1 OS=Homo sapiens  
GN=CELA1 PE=1 SV=2

MLVLYGHSTQDLPETNARVVGGTEAGRNSWPSQISLQYRSGGSRHYTCGGTLIRQNWVMT  
AAHCVDYQKTFRVVAGDHNLSQNDGTEQYVSVQKIVVHPYWNSDNVAAGYDIALLRLAQS  
VTLSNYVQLGVLPQEGAILANNSPCYITGWGKTKTNGQLAQTLLQAYLPSVDYAICSSSS  
YWGSTVKNTMVCAGGDGVRSGCQGDGGPLHCLVNGKYSVHGVT SFVSSRGCNVS RKPTV  
FTQVSAYISWINNVIASN

>sp|P07199|CENPB\_HUMAN Major centromere autoantigen B OS=Homo sapiens GN=CENPB PE=1 SV=2

MGPKRRQLTFREKSRI IQEVEENPD LRKGEIARRFNIPPSTLSTILKNKRAILASERKYG  
VASTCRKTNKLSPYDKLEGLLI AWFQQIRAAGLPVKGI ILKEKALRIAEELGMDDFTASN  
GWLDRFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTGWRAREEQPP  
SVAEGYASQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLP  
PLVAGKSAKPRAGQAGLPCDYTANSKGGVTTQALAKYLKALDTRMAAESRRVLLLAGRLA  
AQSLDTSGLRHVQLAFFPPGTVHPLERGVVQVKGHYRQAMLLKAMAALLEGQDPSGLQLG  
LTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTSLKSEEEEEEEEEEEEEEG  
EGEEEEEGEEEEEGEGEELGEEEEVEEEGDVDSDEEEEEDEESSSEGLEAEDWAQGV  
VEAGGSFGAYGAQEEAQCTLHFLEGGEDSDSDSEEDDEEEDDEEDDDDEEDGDVEP  
VPSFGEAMAYFAMVKRYLTSFPIDDRQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

>sp|Q02224|CENPE\_HUMAN Centromere-associated protein E OS=Homo sapiens GN=CENPE PE=1 SV=2

MAEEGAVAVCVRVRPLNSREESLGETAQVYWKTDNNVIYQVDGSKSFNFDRVFHGNETTK  
NVYEEIAAPIIDS AIQGYNGTIFAYGQTASGKTYTMMGSEDHLGVIPRAIHDIFQKIKKF  
PDREFLLRVSYMEIYNETITDLLCGTQKMKPLI IREDVNRNVYVADLTEEVVYTSEMALK  
WITKGEKSRHYGETKMNRSSRSHTIFRMI ESREKGEPSNCEGSVKVSHLNLVDLAGSE  
RAAQTGAAGVRLKEGCNINRSLFILGQVIKKLSDGQVGGFINYRDSKLTRILQNSLGGNA  
KTRI ICTITPVSFDETLTALQFASTAKYMKNTPYVNEVSTDEALLKRYRKEIMDLKKQLE  
EVSLETRAQAMEKDQLAQLLEEKDLLQKVQNEK IENLTRMLVTSSSLTLQQELKAKRKRR  
VTWCLGKINKMKN SNYADQFNIP TNITTKTHKLSINLLREIDESVCESDVFSNTLDTLS  
EIEWNPATKLLNQENIESELNSLRADYDNLVLDYEQLRTEKEEMELKLEKNDLDEFEAL  
ERKTKKDQEMQLIHEISNLKNLVKHAEVYNQDLENELSSKVELLREKEDQIKKLQEYIDS

QKLENIKMDLSYSLESIEDPKQMKQTLFDAETVALDAKRESAFLRSENLELKEKMKELAT  
TYKQMENDIQLYQSQLEAKKKMQVDLEKELQSAFNEITKLTSLIDGKVPKDLLCNLELEG  
KITDLQKELNKEVEENEALREEVILLSELKSLPSEVERLRKEIQDKSEELHIITSEKDKL  
FSEVVHKESRVQGLLEEIGTKDDLATTQSNYKSTDQEFQNFKTLHMDFEQKYKMLEEN  
ERMNQEI VNL SKEAQKF DSSLGALKTELSYKTQELQEKTRVQERLNEMEQLEQLENRD  
STLQTVEREKTLITEKLQQTLEEVKTLTQEKDDLKQLQESLQIERDQLKSDIHDTVNMNI  
DTQEQLRNALESKQHQETINTLSKISSEVSRNLHMEENTGETKDEFQQKMVGIDKKQD  
LEAKNTQTLTADVKDNEIEEQQRKIFSLIQEKNELQQMLESVIAEKEQLKTDLKENIEMT  
IENQEELRLLGDELKKQQEIVAQEKNAIKKEGELSRTCRLAEVEEKLKEKSQQLEKQ  
QQLLNQVEEMSEMQKKINEIENLKNELKNKELTLEHMETERLELAQKLNENYEEVKSITK  
ERKVLKELQKSFETERDHLRGYIREIEATGLQTKEELKIAHIHLKEHQETIDELRRSVSE  
KTAQIINTQDLEKSHTKLQEEIPVLHEEQELLPNVKEVSETQETMNELELLTEQSTTKDS  
TTLARIEMERLRLNEKFQESQEEIKSLTKERDNLKTIKEALEVKHDQLKEHIRETLAKIQ  
ESQSKQEQLNMKEKDNETTKIVSEMEQFKPKDSALLRIEIEMLGLSKRLQESHDEMKS  
V  
AKEDDLQRLQEVLSQESDQLKENIKEIVAKHLETEEELKVAHCCLKEQEETINELRVNL  
SEKETEISTIQKQLEAINDKLQNKIQEIEYEEQFNIKQISEVQEKVNELKQFKEHRKAK  
DSALQSIESKMLELTNRLQESQEEIQIMIKEKEEMKRVQEALQIERDQLKENTKEIVAKM  
KESQEKEYQFLKMTAVNETQEKMCIEHLKEQFETQKLNLNIETENIRLTQILHENLEE  
MRSVTKERDDLRSVEETLKVERDQLKENLRETITRDLEKQEELKIVHMLKEHQETIDKL  
RGIVSEKTNEISNMQKDLHSNDALKAQDLKIQEELRIAHMHLKEQQETIDKLRGIVSEK  
TDKLSNMQKDLNSNAKLQEKIQELKANEHQLITLKKDVNETQKKVSEMEQLKKQIKDQS  
LTL SKLEIENL NLAQKLHENLEEMKSVMKERDNLRRVEETLKLERDQLKESLQETKARDL  
EIQQELKTARMLSKHEKETVDKLREKISEKTIQISDIQKDLKSKDELQKKIQELQKKEL  
QLLRVKEDVNM SHKKINEMEQLKKQFEAQNLSMQSVRMDNFQLTKKLHESLEEIRIVAKE  
RDELRRIKESLKMERDQFIATLREMIARDRQNHQVKPEKRLLSDGQQHLTESLREKCSRI  
KELLKRYSEMDDHYECLNRLSLDEKEIEFQKELSMRVKANLSLPYLQTKHIEKLFTANQ  
RCSMEFHRIMKKLYVLSYVTKIKEEQHESINKFEMDFIDEVEKQKELLIKIQHLQQDCD  
VPSRELRLDLKLNQMDLHIEEILKDFSESEFPSIKTEFQQVLSNRKEMTQFLEEWLNTRF  
DIEKLKNGIQKENDRICQVNNFFNNRIIAIMNESTEFEEERSATISKEWEQDLKSLKEKNE  
KLFKNYQTLKTSLASGAQVNPTTQDNKNPHVTSRATQLTTEKIRELENSLHEAKESAMHK  
ESKIIKMQKELEVNDIIAKLQAKVHESNKCLEKTKETIQVLQDKVALGAKPYKEEIEDL  
KMKLVKIDLEKMNAKEFEKEISATKATVEYQKEVIRLLRENLRSSQQAQDTSVISEHTD  
PQPSNKPLTCGGSGIVQNTKALILKSEHIRLEKEISKLKQNEQLIKQKNELLSNNQHL  
SNEVKTWKERTLKREAHKQVTCENSPKSPKVTGTASKKKQITPSQCKERNLQDPVPKESP  
KSCFFDSRSKSLPSHPVRYFDNSSLGLCPEVQNAEASVDSQPGPWHASSGKDVPECKT  
Q

>sp|P49454|CENPF\_HUMAN Centromere protein F OS=Homo sapiens GN=CENPF PE=1 SV=2  
MSWALEEWKEGLPTRALQKIQELEGQLDKLKEKQQRQFQLDSLEAALQKQKQVENEKT  
EGTNLKRENQRLMEICESLEKTKQKISHELQVKESQVNFQEGQLNSGKKQIEKLEQELKR  
CKSELERSQAAQSAADVSLNPCNTPQKIFTTPLTPSQYYSGSKYEDLKEKYNKEVEERKR  
LEAEVKALQAKKASQTLPAQTMNHRDIARHQASSSVFSWQKEKTPSHLSSNSQRTPIRRD  
FSASYFSGEQEVTPSRSTLQIGKRDANSSFFDNSSSPHLLDQLKAQNQELRNKINELELR  
LQGHEKEMKGQVNKFQELQLQLEKAKVELIEKEKVLNKRDELVRTTAQYDQASTKYTAL  
EQKLKKLTEDLSCQRQNAESARCSLEQKIKEKEKEFEELSRRQRSFQTLDDQECIQMKAR

LTQELQQAKNMHNVLQAELDKLTSVKQQLENNLEEFKQKLCRAEQAFQASQIKENELRRS  
MEEMKKENNLKSHSEQKAREVCHLEAELKNIKQCLNQSQNFAEEMKAKNTSQETMLRDL  
QEKINQQENSLTLEKLKLAVADLEKQRDCSQDLLKKREHHIEQLNDKLSKTEKESKALLS  
ALELKKKEYEELKEEKTLCFSCWKSENEKLLTQMESEKENLQSKINHLETCLKTQQIKSHE  
YNERVRTLEMDRENLSVEIRNLHNVLDSKSVEVETQKLAYMELQQKAESDQKHQKEIEN  
MCLKTSQLTGQVEDLEHKLQLLSNEIMDKDRCYQDLHAEYESLRDLLKSKDASLVTNEDH  
QRSLLAFDQQPAMHHSFANIIGEGGSMPSECRLEADQSPKNSAILQNRVDSLEFSLE  
SQKQMNSDLQKQCEELVQIKGEIEENLMKAEQMHQSFAETSQRISKLEQEDTSAHQNVVA  
ETLSALENKEKELQLLNDKVETEQAIEQLKKS NHLLED SLKELQLLSETLSLEKKEMSS  
IISLNKREIEELTQENGTKEINASLNQEKMNLIQKSESFANYIDEREKSISELSQYKQ  
EKLILLQRCEETGNAYEDLSQKYKAAQEKNSKLECLLNECTSLCENRKNELEQLKEAFK  
EHQEFITKLAFAEERNQNLMLELETVQQALRSEMTDNQNNSEAGGLKQEIIMTLKEEQN  
KMQKEVNDLLQENEQLMKVMKTKHECQNLSEPIRNSVKERESERNQC�FKPQMDLEVKE  
ISLDSYNAQLVQLEAMLRNKELKLQSESEKECEQLQHELQTIIRGDLETSNLQDMQSQEISG  
LKDCEIDAEEKYISGPHELSTSQNDNAHLQCSLQTTMKNLELEKICEILQAEKYELVTE  
LNSRSECITATRKMAEEVGKLLNEVKILNDDSGLLHGELVEDIPGGEFGEQPNEQHPVS  
LAPLDESNSYEHLLTSDKEVQMHFAELQEKFLSLQSEHKILHDQHCQMSKMSLQTYVD  
SLKAENLVLSTNLRNFQGDVLKEMQLGLEGLVPSLSSSCVPDSSSLSSLDSSFYRALL  
EQTGDMSSLNLEGAVSANQCSVDEVFCSSLQTYVDSLKAENLVLSTNLRNFQGDVLKEM  
QLGLEGLVPSLSSSCVPDSSSLSSLDSSFYRALLEQTGDMSSLNLEGVVSANQCSVD  
EVFCSSLQENLTRKETPSAPAKGVEELESCEVYRQSLEKLEEKMESQGIMKNKEIQEL  
EQLSSERQELDLRKQYLSENEQWQKLTSVTLEMESKLAAEKKQTEQLSLELEVARLQ  
LQGLDSSRSLLGIDTEDAIQGRNESCDISKEHTSETTERTPKHDVHQICDKDAQDLNL  
DIEKITETGAVKPTGECSGEQSPDTNYEPPGEDKTQGSSECTISELSFSGPNALVPMDFLG  
NQEDIHNLQLRVKETSNEENLRLHVIEDRDRKVESLLNEMKELDKLHQLQEVQLMTKIEA  
CIELEKIVGELKKENSDLSEKLEYFSCDHQELLQRVETSEGLNSDLEMHADKSSREDIGD  
NVAKVNDSWKERFLDVENELSRIRSEKASIEHEALYLEADLEVQTEKLCLEKDNEKQK  
VIVCLEEELS SVT SERNQLRGELDTMSKKTALDQLSEKMKEKTQELESHQSECLHCIV  
AEA EVKEKTELLQTLSDDVSELLKDKTHLQEKLSLEKDSQALSLTKCELENQIAQLNKE  
KELLVKESESLQARLSESDYEKLVNSKALEAALVEKGEFALRLSSTQEEVHQLRRGIEKL  
RVRIEAEKKQLHIAEKLKERERENDSLKDKVENLERELQMSEENQELVILDAENSKAEV  
ETLKTQIEEMARSLKVFDLVTLRSEKENLTKQIQEKQGLSELDKLLSSFKSLLEEKE  
QAEIQIKEESKTAVEMLNQQLKELNEAVALCGDQEI MKATEQSLDPPIEEHQLRNSIE  
KLRLARLEAEKKQLCVLQQLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKG  
EVETLKAKIEGMTQSLRGLELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQE  
KEQEKVQMKEKSSSTAMEMLQTQLKELNERVAALHNDQEACKAKEQNLSSQVECLELEKAQ  
LLQGLDEAKNNYIVLQSSVNGLIQEVEDGKQKLEKKDEEISRLKNQIQDQEQLVSKLSQV  
EGEQHLWKEQNLRLNLTVLEQKIQVLQSKNASLQDTLEVLSQSYKNLENELELTKMDK  
MSFVEKVNKMTAKETELQREMHMAQKTAELEELSGEKNRLAGELQLLLEEIKSSKDQL  
KELTLENSELKKS LDCMHKDQVEKEGKVREEIAEYQLRLHEAEKKHQALLLDTNKQYEVE  
IQTYREKLTSKEECLSSQKLEIDLKSSKEELNNSLKATTQILEELKKTMDNLKYVNQL  
KKENERAQQGKMKLLIKSCKQLEEEKEILQKELSQLQAAQEKQKTGTVMDTKVDLTTEIK  
ELKETLEEKTKEADEYLDKYCSLLISHEKLEKAKEMLETQVAHLCSQSKQDSRGSPLLG  
PVVPGPSPIPSVTEKRLSSGQNKASGKRQRSSGIWENGRGPTPATPESFSKKS KAVMSG

IHPAEDTEGTEFEPEGLPEVVKKGFADIPTGKTSPYILRRTTMATRTSPRLAAQKLALSP  
LSLGKENLAESSKPTAGGSRSQKVKAQRSPVDSGTILREPTTKSVPVNNLPERSPTDSP  
REGLRVKRGRLVPSPKAGLESNGSENCKVQ

>sp|Q96ST8|CEP89\_HUMAN Centrosomal protein of 89 kDa OS=Homo sapiens GN=CEP89 PE=1 SV=3

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LTGRTVAIPQPRQRSSESDVSSVEQDSFIEPYATTSQLRPRPNWQSEMGRSSLPSFET  
LDYGDEEDIETQLSSSGKELGDVSAREDRGGHSDDLAYVPHRNQVPLLHEVNSEDDENIS  
HQDGFPGSPAPQRTQQKDGKHPVLNLKDEKPPLCEKPPSPDITGRARQRYTEITREKF  
EALKEENMDLNNMNQSLTLELNTMKQAMKELQLKLKGMEKEKRKLKEAEKASSQEVAAPE  
LLYLKQAQELVDENDGLKMTVHRLNVELSRYQTKFRHLSKEESLNIEGLPSKGPIPPWL  
LDIKYLSPLLLAYEDMMKEKDELNATLKEEMRMFRMRVQEVVKENEELHQELNKSSAVTS  
EEWRQLQTQAKLVLEENKLLLEQLEIQQRKAKDSHQRLEQVSKLTKQLMLLEAKTHGQE  
KELAENREQLEILRAKCQELKTHSDGKIAVEVHKSIVNELKSQLQKEEEKERAEMEELME  
KLTVLQAQKSLLEKNSLTEQNKALEAELERAQKINRKSQKKIEVLKKQVEKAMGNEMS  
AHQYLANLVGLAENITQERDSLMLAKCLESEKDGVLNKVIKSNIRLGKLEEKVKGYKKQ  
AALKLGDISHRLLEQQEDFAGKTAQYRQEMRHLHQVLKDKQEVLDQALQQNREMEGELEV  
IWESTFRENRRIRELLQDTLTRTGVQDNPRALVAPSLNGVSQADLLDGCDDVCSYDLKSHA  
PTC

>sp|Q49MI3|CERKL\_HUMAN Ceramide kinase-like protein OS=Homo sapiens GN=CERKL PE=1 SV=1

MPWRRRRNRVSALEGGREEEAPPEAAVPPALLTSPQQTEAAAERILLRGIFEIGRDS  
CDVVLSEALRWRPIQPERPAGDSKYDLLCKEEFIELKDIFSVKLKRRCVKQQRSGTLLGI  
TLFICLKKEQNKLNSTLDLINLSEDHCDIWFRQFKKILAGFPNRPKSLKILLNPQSHKK  
EATQVYYEKVEPLKLAGIKTDVTIMEYEGHALSLLKECELQGFDDGHRKPLFAIHWSVQ  
RLFTGMQTLPEPSVVCVGGDSASEVAHALLRAQKNAGMETDRILTPVRAQLPLGLIPAG  
STNVLAHSLHGVPHVITATLHIIMGHVQLVDVCTFSTAGKLLRFGFSAMFGFGGRTLALA  
EKYRWMSPNQRRDFAVVKALAKLKAEDCEISFLPFNSSDDVQERRAQGSPKSDCNDQWQM  
IQGGFLNVSIMAIPLCLCSVAPRGLAPNTRLNNGSMALIIARNTSRPEFIKHLKRYASVKN  
QFNFPFVETYTVEEVKVHPRNNTGGYNPEEEEEDETAENCFPNVVDGLMEVASEVHIRL  
HPRLISLYGGSMEEMIPK

>sp|Q96G23|CERS2\_HUMAN Ceramide synthase 2 OS=Homo sapiens GN=CERS2 PE=1 SV=1

MLQTLTYDYFWERLWLPVNLTWADLEDGRGVYAKASDLYITLPLALLFLIVRYFFELYV  
ATPLAALLNIKEKTRLRAPPNATLEHFYLTSGKQPKQVEVELLSRQSGLSGRQVERWFR  
RRNQDRPSLLKKFREASWRFTFYLIAFIAGMAVIVDKPWFYDMKKVWEGYPIQSTIPSQY  
WYYMIELSFYWSLLFSIASDVKRKDFKEQIIHHVATIIILISFSWFANYIRAGTLIMALHD  
SSDYLLESA KMFNAGWKNTCNNIFIVFAIVFIITRLVILPFWILHCTLVYPLELYPAFF  
GYYFFNSMMGVLQLLHIFWAYLILRMAHKFITGKLVEDERSDREETESSEGEAAAAGGGA  
KSRPLANGHPILNNHRKND

>sp|095873|CF047\_HUMAN Uncharacterized protein C6orf47 OS=Homo sapiens GN=C6orf47 PE=1  
SV=2

MFLRRLGGWLPRPWGRRKPMRPDPYPPEPRRDSSSENSGSDWDSAPETMEDVGHPKTKD  
SGALRVSGAASEPSKEEPQVEQLGSKRMDSLKWDQPISSSTQESGRLEAGGASPKLRWDHV  
DSGGTRRPGVSPEGGLSVPGPGAPLEKPGRREKLLGWLRGEPGAPSRYLGGPEECLQIST  
NLTLHLELLASALLALCSRPLRAALDTLGLRGPLGLWLHGLLSFLAALHGLHAVLSLLT  
AHPLHFACLFGLLQALVLAVSLREPNGDEAATDWESEGLEREGEEQRGDPGKGL

>sp|Q5T4I8|CF052\_HUMAN Putative uncharacterized protein C6orf52 OS=Homo sapiens  
GN=C6orf52 PE=2 SV=2

MAQPSSADFGIAQQNNYYCYWQSLPSAIRVKQEFQPSQSYRYGNWYARQHGSYLLSGYS  
YGCAVDGNGKDCFSAHETPEHTAGTLVMPKETTPLAENQDEDPLEDPLHLHLNIEESNQE  
F  
MVKSEELYDSL MNCHWQPLDTVHSEIPDETPK

>sp|Q8N319|CF223\_HUMAN Uncharacterized protein C6orf223 OS=Homo sapiens GN=C6orf223 PE=2  
SV=2

MMPLAEAGALAQGGGPSATEWACILRRKTPRHKQPTLLMVRASRRSGKTSAVLKAGRQSV  
SGRKNSTSKDLVTLGASSLREERGHPLHPRHRKAVHLRTRGRTRGWVQTLARMSRRTRGP  
VERAAAAAAGGDAGHAPFPPPPAADGARAPRSPGQVTPRGLRLRLPRRESLLRGLCR  
PLRPLLGFRESDSAKPASLRLQHTPSARRNYRIAGARLMRSNYPPLSSAALRGAGPTR  
RN

>sp|Q5EG05|CAR16\_HUMAN Caspase recruitment domain-containing protein 16 OS=Homo sapiens  
GN=CARD16 PE=1 SV=1

MADKVLKEKRKLFHISMGEGTINGLLDELLQTRVLNQEEMEKVKRENATVMDKTRALIDS  
VIPKGAQACQICITYICEEDSYLAETLGLSAAQAVQDNPAMPTCSSPEGRIKLCFLEDA  
QRIWKQKLQRCHVQNTIIKWSERYTSGSFEMQWFLRTNFIERFWRNILLPLHKGSLYP  
RIPGLGKELQTGTHKLS

>sp|P53634|CATC\_HUMAN Dipeptidyl peptidase 1 OS=Homo sapiens GN=CTSC PE=1 SV=2

MGAGPSLLLAALLLLSGDGAVRCPTANCTYLDLLGTWVFQVGSQSDVNCVSMGPQ  
EKKVVVYLQKLDAYDDLGNHGFTIIYNQGFEIVLNDYKWFAFFKYKEEGSKVTTCNE  
TMTGWVHDLGRNWACFTGKKVGTASENVYVNIHLKNSQEKYSNRLKYDHNFKAINA  
IQKSWTATTMEYETLTLDGDMIRSRGGHSRKIPRKPAPLTAETQKILHLPTSWDWRNV  
HGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNSTPILSPQEVVSCSQYAGCEG  
GFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCFRYSSEYHYVGGFYGGCNEALM  
KLELVHHGPMMAFAFEVYDDFLHYKGIYHHTGLRDPFNPFLTNHAVLLVGYGTDASGM  
DYWIVKNSWGTGWGENGYFRIRRGTDCAIESIAVAATPIPKL

>sp|Q9UBX1|CATF\_HUMAN Cathepsin F OS=Homo sapiens GN=CTSF PE=1 SV=1

MAPWLQLLSLLGLLPGAVAAPQPRASFQAWGPPPELLAPTRFALEMFNRGRAAGTRA  
VLGLVRGRVRRAGQGSLSLEATLEPPCNDPMVCRLPVSKKTLCSFQVLDELGRHVLL  
RKDCGPVDTKVPAGEPKSAFTQGSAMISLSQNHDPNRNETFSSVISLLNEDPLSQDLP  
VKMASIFKNFVITYNRTYESKEEARWRLSVFVNMVRAQKIQALDRGTAQYGVTKFSDLT  
EEEFRTIYLTLLRKEPGNKMKAQSVGDLAPPEWDWRSKGAVTKVKDQGMCGSCWAFSV  
TGNVEGQWFLNQGTLLSLEQELLDCKMDKACMGGLPSNAYSAIKNLGLETEDDYSYQ  
GHMQSCNFSAEKAKVYINDSVLSQNEQKLAWLAKRGPISVAINAFGMQFYRHGISRPL  
RPLCSPWLIDHAVLLVGYGNRSDVPFWAIKNSWGTDWGEKGYYYLHRGSGACGVNTMASS  
AVVD

>sp|P25774|CATS\_HUMAN Cathepsin S OS=Homo sapiens GN=CTSS PE=1 SV=3

MKRLVCVLLVCSSAVAQLHKDPTLDHHWHLWKKTYGKYKEKNEEAVRRLIWEKNLKFVM  
LHNLEHSMGMHSYDLGMNHLGDMTSEEVMSSLRVPSQWQRNITYKSNPNRILPDSVD  
WREKGCVTEVKYQSGCGACWAFSAVGALEAQLKLKTGKLVSLSAQNLVDCSTEKYGNKGC  
NGGFMTTAFQYIIDNKGIDSDASYPYKAMDQKCQYDSKYRAATCSKYTELPGREDVLKE  
AVANKGPVSVGDARHPSFFLYRSGVYEPSTQNVNHGVLVVGYGDLNGKEYWLKNSW  
GHNFGEEGYIRMARNKGNHCGIASFPSYPEI



>sp|P48052|CBPA2\_HUMAN Carboxypeptidase A2 OS=Homo sapiens GN=CPA2 PE=1 SV=3

MAMRLILFFGALFGHIYCLETFVGDQVLEIVPSNEEQIKNLLQLEAQEHLQLDFWKSPTT  
PGETAHVRVPFVNVQAVKVFLSESQGIAYSIMIEDVQVLLDKENEMLFNRRRERSGNFNF  
GAYHTLEEISQEMDNLVAEHPGLVSKVNIGSSFENRPMNVLFKSTGGDKPAIWLDAGIHA  
REWVTQATALWTANKIVSDYGKDPSITSILDALDIFLLPVTNPDGYVFSQTKNRMWRKTR  
SKVSGSLCVGVDPNPNWDAGFGGPGASSNPCSDSYHGPSANSEVEVKSIVDFIKSHGKVK  
AFITLHSYSQLLMPYGYKCTKLDDFDELSEVAQKAAQSLRSLHGTYKYKVGPICSVIYQA  
SGGSIDWSYDYGIKYSFAFELRDTGRYGFLPARQILPTAEETWLGLKATMEHVRDHPY

>sp|Q8N4T0|CBPA6\_HUMAN Carboxypeptidase A6 OS=Homo sapiens GN=CPA6 PE=1 SV=2

MKCLGKRRGQAAAFPLCWLFLKILQPGHSHLYNNRYAGDKVIRFIPKTEEEAYALKKIS  
YQLKVDLWQPSSISYVSEGTVDVHIPQNGSRALLAFLQEANIQYKVLIEDLQKTLEKGS  
SLHTQRNRRSLSGYNYEVYHSLEEIQNWMHHLNKTHTSGLIHMFSIGRSYEGRSFLILKL  
RRSRLKRAVWIDCGIHAREWIGPAFCQWVFKEALLTYKSDPAMRKMLNHLFYIMPVFNV  
DGYHFSWTNDRFWRKTRSRNSRFRGVDANRNWVKWCDEGASMHPCDDTYCGPFPESE  
PEVKAVANFLRKHRKHIRAYLSFHAYAQMLLYPYSYKYATIPNFRCVESAAYKAVNALQS  
VYGVRYRYGPASTTLYVSSGSSMDWAYKNGIPYAFAFELRDTGYFGFLLPEMLIKPTCTE  
TMLAVKNITMHLKKCP

>sp|Q8NEM8|CBPC3\_HUMAN Cytosolic carboxypeptidase 3 OS=Homo sapiens GN=AGBL3 PE=2 SV=2

MSDESEKEDYSDRITISDEDESEDEDMFMKFVSEDLHRCALLTADSFQDPFPRTTQILLEY  
QLGRWVPRLREPRDLYGSSSGPLSPTRWPYHCEVIDEKVQHIDWTPSCPEPVYIPTGLE  
TEPLYPDSKEATVVYLAEDAYKEPCFVYSRVGGNRTPLKQPVYRDNTLMFEARFESGNL  
QKVVKVAEYEQLTVRPDLFTNKHTQWYYFQVTNMRAIVYRFTIVNFTKPASLYSRGMR  
PLFYSEKEAKAHIGWQRIGDQIKYYRNNGQDGRHYFSLTWTFQFPHNKDTCYFAHCYP  
YTYTNLQEYLSGINNDPVRSKFCKIRVLCHTLARNMVYILTITITPLKNSDSRKRKAVILT  
ARVHPGETNSSWIMKGFLDYILGNSSDAQLLRDTFVFKVVPMLNPDGVI VGNRYCSLAGR  
DLNRNYTSLLESFSPVWYTRNMVHRLMEKREVILYCDLHGHSRKENIFMYGCDGSDRSK  
TLYLQQRIFPLMLSKNCPDKFSFSACKFNVQKSKEGTGRVVMWKMGI RNSFTMEATFCGS  
TLGNKRGTHFSTKDLESMDYHFCDSLLDYCDPDRTKYRCLKELEEMERHITLEKVFEDS  
DTPVIDITLDVSESSRGSDSSESIDSLTYLLKLTQKKHLKTKKERNSTIASHQNARGQE  
VYDRGHLLQRHTQNSDVKDTRPNPDYMDYFRRQLPNQGLAHCKLRLPGSRHSPASA  
SRVAGTTGTRHHTWLFVFLVEMGKKIPLKGTDLYGNCFKVTSLQSPMGKQTSTWTEKTR  
IPTEDLHHLNLSKIKKISFQSKKTGINWTDDEKRSYKDKGIVQTQEILQYLLPIVHSTK  
NMQTTQIKQLFNPRTNFQIQHQLNPATCRNIKKYSTSWTAPRNHPFVIQGDVMANSSEWV  
QSKPHRSLESLSPLKGPKNKHSQIWAIKNEDIKPLSSKWETASSSFGMDANVLKYKSLQ  
AEETNQSSKHTALHLTKNKDEQANKNDGQPTLYLKQFQRES

>sp|Q96MI9|CBPC4\_HUMAN Cytosolic carboxypeptidase 4 OS=Homo sapiens GN=AGBL1 PE=1 SV=2

MISKGGSEALLQTLVDARTAPPDYDILLPLFRLLAKVGLRDKKIGRKALELEALDVTLI  
LARKNLSHGQNLHLCLWALRVFASSVSMGAMLGINGAMELLFKVITPYTRKRTQAIRAAT  
EVLAALLKSKSNGRAVNRGYVTSLLGLHQDWHSDTANAYVQIRRGLLLCLRHIAALRS  
GREAFLLAAQMEILFSTTQNCDDKSMPEVISVVLQILRQCYPTSPLPLVTASSAYAFPV  
PGCITTEPPHDLPEEDFEDDGDDEVDKSDTEDGKVEDDDLETDVNKLSSKPGDRPEEE  
LMQYEVMCLELSYSFEELQSKLGDDLNSEKTQYANHHHIPAAASSKQHCYSKQSSCGQE  
REYAVQTSLLCRVKTGRSTVHLGSKKNPGVNLYQNVQSNLRRDSSESEIPDIQASPKAD  
AWDVDAIFCPMSASFNSNSTRREVVKVIDKLLQTHLKRVPFHPYLYMAKARRTSSVVD

FKMMAFPDVWGHCPPPTTQPMLERKCGVQRIRIFEDIRRLIQPSDVINKVVFSLDEPWPL  
QDNASNCLRFFSKFESGNLRKAIQVREFEYDLLVNADVNSTQHQQWFYFKVSGMQAAIPY  
HFNI INCEKPN SQFN YGMQPTLYSVKEALLGKPTWIRTGHEICYKNHYRQSTAVAGGAS  
GKCYTTLTFAVTFPHSEDCYLAYHPYTYTALMTHLDILEKSVNLKEVYFRQDVLCQTL  
GGNPCPLVTITAMPESNSDEHLEQFRHRPYQVITARVHPGESNASWVMKGTLEFLVSSDP  
VARLLRENFIKII PMLNPDGVINGNHRCSLSGEDLNRQWLSPSAHLQPTIYHAKGLLYH  
LSSIGRSPVVFCDHFHGSQKKNVFLYGCSIKETLWQAACVTGTSTILEEVNYRTL PKILD  
KLAPFTMSSCSFLVEKSRASTARVVVWREMGVSRSYTMESYCGCNQGPYQCTQRLLER  
TKNERAHPVDGLQGLQFGTRELEEMGAMFCLGLLILELKSASCSHQLLAQAATLLSAEED  
ALDQHLQRLKSSNFLPKHIWFAYHFFAITNFFKMNLLLHVSPVCDT

>sp|Q5VU57|CBPC6\_HUMAN Cytosolic carboxypeptidase 6 OS=Homo sapiens GN=AGBL4 PE=2 SV=3

MAEGSQSAPEAGNDMGNDDAIGGNVSKYIVLPTGYCGQPKKGHLIFDACFESGNLGRVDQ  
VSEFEYDLFIRPDTCNPRFRVWFNFTVENVKESQRVIFNIVNFSKTKSLYRDGMAPMVKS  
TSRPKWQRLPPKNVYYYRCPDHRKNYVMSFAFCFDREEDIYQFAYCYPYTYTRFQHYLDS  
LQKRNDYFFREQLGQSVQQRKDLLTITSPDNLREGAEQKVVFITGRVHPGETPSSFVC  
QGIIDFLVSQHPIACVLREYL VFKIAPMLNPDGVYLGNYRCSLMGFDLNRHWLDPSPWVH  
PTLHGKVLQIVQMYNDPKTSLEFYIDIHAHSTMMNGFMYGNIFEDEERFQRQAIFPKLLC  
QNAEDFSYSSTSFNRDAVKAGTGRRFLGGLLDHTSYCYTLEVSFYSYIISGTTAAVPYTE  
EAYMKLGRNVARTFLDYRLNPVVEKVAIPMPRLRNKEIEVQRRKEKSPPYKHPLLRGPA  
SNYPNSKGD KSSVNHKDPSTPF

>sp|Q92793|CBP\_HUMAN CREB-binding protein OS=Homo sapiens GN=CREBBP PE=1 SV=3

MAENLLDGPPNP KRAKLSSPGFSANDSTDFGSLFDLENDLPDELIPNGGELGLLNSGNLV  
PDAASKHKQLSELLRGSGSSINPGIGNVSASSPVQQGLGGQAQGPNSANMASLSAMGK  
SPLSQGDSSAPSLPKQAASSTGPTPAASQALNPQAQKQVGLATSSPATSGTGPGICMNAN  
FNQTHPGLLNSNSGHSLINQASQGAQVMNGSLGAAGRGRGAGMPYPTPAMQGASSVLA  
ETLTQVSPQMTGHAGLNTAQAGGMAKMGITGNTSPFGQPFSQAGGQPMGATGVNPQLASK  
QSMVNSLPTFPTDIKNTSVTNVPNMSQMQTSVGIVPTQAIATGPTADPEKRKLIQQQLVL  
LLHAHKCQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAGKACQVAHCASSRQII SHWK  
NCTRHDCPVCLPLKNASDKRNQQTILGSPASGIQNTIGSVGTGQQNATSLSNPNPIDPSS  
MQRAYAALGLPYMNQPQTQLQPQVPGQQAQPPQTHQQMRTL NPLGNNPMNIPAGGITTDQ  
QPPNLISESALPTSLGATNPLMNDGSNSGNIGTLSTIPTAAPPSSSTGVRKGWHEHVTQDL  
RSHLVHKLQVAIFPTPDPAALKDRRMENLVAYAKKVEGDMYESANSRDEYYHLLAEKIYK  
IQKELEEKRRSRLHKQGILGNQPALPAPGAQPPVIPQAQPV RPPNGPLSLPVNRMQVSQG  
MNSFNPMSLGNVQLPQAPMG PRAASPMNHSVQMNSMGSVPGMAISPSRMPQPPNMMGAHT  
NNMMAQAPAQSQFLPQNQFPSSSGAMSVGMGQPPAQTGVSQGVPGAALPNPLNMLGPQA  
SQLPCPPVTQSPLHPTPPPASTAAGMPSLQHTTPPGMTTPQPAAPTQPSTPVSSSGQTPT  
PTPGSVPSATQTQSTPTVQAAAQAQVTPQPQTPVQPPSVATPQSSQQQPTPVHAQPPGTP  
LSQAAAASIDNRVPTPSSVASAETNSQQPGPDVPVLEMKTETQAEDTEPDGESKGEPRSE  
MMEEDLQGASQVKEETDIAEQKSEPMEVDEKKPEVKVEVEKEEESSSNGTASQSTSPSQP  
RKKIFKPEELRQALMPTLEALYRQDPESLPFRQPVDPQLLGIPDYFDIVKNPMDLSTIKR  
KLDTGQYQEPWQYVDDVWLMFNNAWL YNRKTSRVYKFCSKLAEVFEQEIDPVMQSLGYCC  
GRKYEFSPTLCCYQKQLCTIPRDAAYYSYQNRHYHCEKCFTEIQGENVTLGDDPSQPQT  
TISKDQFEKKNDTLDPEPFVDCKEGRKMHIQCVLHYDIIWPSGFVCDNCLKKTGRPRK  
ENKFSAKRLQTTTRLGNHLEDVKNFLRRQNHPEAGEVFVRV VASSDKTVEVKPGMKSRFV

DSGEMSESFYRRTKALFAFEEIDGVDVCFGMHVQEYGSDCPPNTRRVYISYLD SIHFF  
RPRCLRTAVYHEILIGYLEYVKKLGYVTGHIWACPPSEGDDYIFHCHPPDQKIPKPKRLQ  
EWYKMLDKAFAERI IHDYKDI FKQATEDRLTSAKELPYFEGDFWPNVLEESI KELEQEE  
EERKKEESTAASETTEGSQGDSKNAKKNNKKTNKNKSSI SRANKKKPSMPNVSNDSQK  
LYATMEKHKEVFFVIHLHAGPVINTLPPIVDPDPLLSCDLM DGRDAFLT LARDKHWEFSS  
LRRSKWSTLCMLVELHTQGQDRFVYTCNECKHHVETRWHCTVCEDYDLCINCYNTKSHAH  
KMKVWGLGLDDEGSSQGEPQSKSPQESRRLSIQRCIQSLVHACQCRNANCSLPSCQKMKR  
VVQHTKGCKRKTNGGCPVCKQLIALCCYHAKHCQENKCPVPFCLNIKHKL RQQQIQHRLQ  
QAQLMRRRMTMNTNRNPVQQSLPSPTSAPPGTPTQQPSTPQTQPPAQPPSPVSMSPAG  
FPSVARTQPPTTVSTGKPTSQVPAPPPPAQPPPAAVEAARQIEREAQQQQLYRVNINNS  
MPPGRTGMGTPGSQMAPVSLNVP RPNVSGPVMPSMPPGQWQQAPLPQQQPMPGLPRPVI  
SMQAAAVAGPRMPVSQPPRSISPSALQDLLRTLKSPSSPQQQQQVLN ILKSNPQLMAAF  
IKQRTAKYVANQPGMQPQGLQSQPGMQPQPGMHQQPSLQNLNAMQAGVPRPGVPPQQA  
MGGLNPQGQALNIMNPGHNPNMAMNPQYREMLRRQLLQQQQQQQQQQQQQQQQQSAG  
MAGGMAGHGQFQQPGCPGGYPAMQQQQRMQHLPLQGSSMGQMAAQMGLGQMGPGLG  
ADSTPNIQQALQQRILQQQMKQQIGSPGQPNPMSPPQHMLSGQPQASHLPGQQIATSLS  
NQVRSPAPVQSPRPQSQPPHSSSPRIQPQPSPHHVSPQTGSPHPGLAVTMASSIDQGHL  
GNPEQSAMPLPQLNTPSRSALSSELSLVGDTTGD TLEKFVEGL

>sp|Q8N4T8|CBR4\_HUMAN Carbonyl reductase family member 4 OS=Homo sapiens GN=CBR4 PE=1 SV=3

MDKVCVFGGSRGIGRAVAQLMARKGYRLAVIARNLEGAKAAAAGDLGGDHLAFSCDVAKE  
HDVQNTFEELEKHLGRVNFLVNAAGINRDGLLVRTKTEDMVSQLHTNLLGSM LTCKAAMR  
TMIQQQGSIVNVGSIVGLKGNQGSQSVYSASKGGLVGFSRALAKEVARKKIRVNVVAPGF  
VHTDMTKDLKEEHLKKNIP LGRFGETIEVAHAVVFLLESPYITGHV LVVDGGLQLIL

>sp|P35520|CBS\_HUMAN Cystathionine beta-synthase OS=Homo sapiens GN=CBS PE=1 SV=2

MPSETPQAEVGPTGCPHRSGPHSAKGSLEKSPEDKEAKEPLWIRPDAPSRCTWQLGRPA  
SESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNAGGSVKD  
RISLRMIEDAERDGLTKPGDTIIEPTSGNTGIGLALAAVRGYRCIIVMPEKMSSEKVDV  
LRALGAEIVRTPTNARFDSPESHVGVAWRLKNEIPNSHILDQYRNASNPLAHYD TTADEI  
LQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIIGVDPEGSILAEPEELNQTEQTT  
YEVEGIGYDFIPTVLDR TVVDKWFKSNDEEAFTFARMLIAQEGLLCGGSAGSTVAVAVKA  
AQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKEEDLTEKKPWWHLRVQELGLS  
APLTVLPTITCGHTIEILREKGFDAQPVVDEAGVILGMVTLGNMLSSLLAGKVQPSDQVG  
KVIYKQFKQIRLTDTLGR LSHILEMDHFALVVHEQIQYHSTGKSSQRQMVFGVVT AIDLL  
NFVAAQERDQK

>sp|O95931|CBX7\_HUMAN Chromobox protein homolog 7 OS=Homo sapiens GN=CBX7 PE=1 SV=1

MELSAIGEQVFAVESIRKKRVRKGKVEYLVKWKGWPPKYSTWEPEEHILDPRLVMAYEEK  
EERDRASGYRKRGP KPKRLLLQRLYSMDLRSSHAKGKEKLCFSLTCPLGSGSPEGV VKA  
GAPELVDKGPLVPTLPFPLRKPRAHKYLR LSRKKFPPRGP NLESHSHRRELFLQEPPAP  
DVLQAAGEWEPAAPPEEEADADLAEGPPP WTPALPSSEVTVDITANSITVT FREAQAA  
EGFFRDRSGKF

>sp|Q9Y3M2|CBY1\_HUMAN Protein chibby homolog 1 OS=Homo sapiens GN=CBY1 PE=1 SV=1

MPFFGNTFSPKKTTPRKSASLSNLHSLDRSTREVELGLEYSPTMNL AGQSLKFENGQWI  
AETGVSGGVDRREVQRLRRRNQQL EEENNLLRLKVDILLDMLSESTAESHLMEKELDEL R

ISRKRK

>sp|Q96M83|CCDC7\_HUMAN Coiled-coil domain-containing protein 7 OS=Homo sapiens GN=CCDC7  
PE=2 SV=3

MKPVKHLTTSNKSANVPALTTKKGLHNLPLSPELKEKHNAKLIHDKIEPMVLRSPPTGE  
SILRYALPIPSSKTKNLLPEDEMIGKIIKHLKMVVSTLEETYGHCDQNGEEPFVKHEHEE  
LSLSVGDDMNSFLTYCSQFAAQLEEALKEEQNILES LFKWFQWQVNMEEISKDQTLLQA  
EPPKPKDTVILNIAEIVRLVQRFEELKNRLKQRSKSSVKVMSKTMCKENRPEAVKSCEA  
LAQKIEEFLEAHSTDEFKDVSAATEPQTAHSMNRFNAMLKVFNQANMLERAVNDQVLLD  
AEYKQMQCDFQLLSEEKLVLENELQKLKDKEKTKPTNNRTKAVKTVKKKDKGKSESEK  
KMSPEKEFKIKEDLDQVQKVARLEIENKVLQEQLKQALQEAQAKHQLNYFLNQEKLLKS  
EGKTETTMQVGNSTKVKGEDSKNIPLEKETRSLVSDSGGRTSDKIQEYPQITAQSGR  
LIEKSSEKKRSSPAISDLSQILKSQDESAFLESSNEVSAENQSYKSPSETHDKSLTTVS  
SSKEVQDSLSVGTALQKNETVISPFILPPVLTESKKADVSEEQLQKMTEEQTYQAAEKSQ  
ADSEVPDENLMVENKDSVTKVQIEQMKQRTSSMERHEETLTTPQLPEDMVLVSRIQSETK  
NLKATRNESFHSNDVPEENLMLEQDTKSKTEVEVKKQKSFQDNQLSTHNEVPNERLVVE  
HQESLSKTKLQIKKQETSTEQPLTTPDKENENLILRHQDSMSKSEMQVKEQRTLKGQRI  
ITHDEEPGKNLVLEHQDSVSKLEMQIEKTKKLPREKRHSTHDEESGENPMLKHQDSVSKI  
QVQLEIQETSEGEGRSIPDKNSMFVHQDSVSKLQMQEKKKIPGRERRNTRIVVPNENVI  
SVHQDSKSKLQMQEKKQINSQVERHKTFFLEIKKKDISLEHLLPEEKVLLSRSESQTKKL  
QAKVTSRKIKNEAASELPDTAENLPAMYPSISDLIIQFDLNKVVETDIESLRGALGRRL  
NDEFKTSKSFPGPDIEQLTDAFGRDILKDEFKTRSKSLPETDERLHSTTERGTINDAIK  
TQLKRKSYPETVLKHLKGVNGKDIKHLINIQSKSHGETDKEHLADDTGRGIIKGSINAQ  
LKGHQKTDKNFFAYATGRGLMKESTTTQLKSHPETDKEFLADAIGRGIIIGPITTQLKSH  
RETDKELLKDAIGRDIKGPISAQLKSHQETDVEPLTNAIGSSKTIGEIKTQLRTHYDVN  
LFGNKDMSVQRQEGIFTRSIPTSKFPTKVINLSPFENKEETYEYSSPYVTAPSKAIYRTY  
RAGSPFSKDIHLPLLNQLPSGHSKVVTLSQKTIEFTLPTVTNTVGKPTYKVLHAAARKSV  
PHPYF

>sp|Q9H0W5|CCDC8\_HUMAN Coiled-coil domain-containing protein 8 OS=Homo sapiens GN=CCDC8  
PE=1 SV=2

MLQIGEDVDYLLIPREVRLAGGVWRVISKPATKEAEFRERLTQFLEEEGRTLEDVARIME  
KSTPHPPQPPKKPKPEPRVRRVQQMVTPPPRLVVGTYDSSNASDSEFSDFETSRDKSRQG  
PRRGKKVRKMPVSYLGSKFLGSDLESEDDEELVEAFLRRQEKQPSAPPARRRVNLPVPMF  
EDNLGPQLSKADRWREYVSQVSWGKLKRRVKGWAPRAGPGVGEARLASTAVESAGVSSAP  
EGTSPGDRLGNAGDVCVPQASPRRWRPKINWASFRRRRKEQTAPTGGADIEADQGGGAA  
DSQREEAIDQREGAAGNQAGAPADQGAEEADNQREEAADNQAGAPAEEGAEEADNQ  
EEAADNQRAEAPADQRSQGTDNHREEAADNQRAEAPADQGEVTDNQREEAVHDQRERAP  
AVQGADNQRAQARAGQRAEAAHNQAGAPGIEAEVSAAQGTGTAPGARARKQVKTVRF  
QTPGRFSWFCKRRRAFWHTPRLPTLPKRVPRAGEARNLRLRAEARAEAEQGEQEDQL

>sp|Q8WXS4|CCGL\_HUMAN Voltage-dependent calcium channel gamma-like subunit OS=Homo  
sapiens GN=TMEM37 PE=2 SV=2

MTAVGVQAQRPLGQRQPRRSFFESFIRTLIIITCVALAVVLSSVSICDGHWLLAEDRLFGL  
WHFCTTTNQTICFRDLGQAHVPLAVGMGLVRSVGALAVVAIFGLEFLMVSQLCEDKHS  
QCKWVMGSILLVSVFLSSGGLLGFVILLRNQVTLIGFTLMFWCEFTASFLFLNAISGL  
HINSITHPWE

>sp|Q99616|CCL13\_HUMAN C-C motif chemokine 13 OS=Homo sapiens GN=CCL13 PE=1 SV=1  
MKVSAVLLCLLLMTAAFNPPQGLAQPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQ  
KAVIFRTRLKGKEICADPKEKWVQNYMKHLGRKAHTLKT

>sp|P78556|CCL20\_HUMAN C-C motif chemokine 20 OS=Homo sapiens GN=CCL20 PE=1 SV=1  
MCCTKSLLLAALMSVLLHLGGESEAASNFDCCLGYTDRLHPKFIVGFTRQLANEGCDI  
NAIIFHTKKKLSVCANPKQTWVKYIVRLLSKKVKNM

>sp|000175|CCL24\_HUMAN C-C motif chemokine 24 OS=Homo sapiens GN=CCL24 PE=1 SV=2  
MAGLMTIVTSLFLGVCAHHIIPTGSVVIPSCCMFFVSKRIPENRVVSYQLSSRSTCLK  
AGVIFTTKKGQFCGDPKQEWVQRYMKNLDAKQKKASPRARAVAVKGPVQRYPGNQTTT

>sp|P78396|CCNA1\_HUMAN Cyclin-A1 OS=Homo sapiens GN=CCNA1 PE=1 SV=1  
METGFPAIMYPGSFIGGWGEEYLSWEGPLPDFVFQQQPVESEAMHCSNPKSGVVLATVA  
RGPDACQILTRAPLGQDPPQRTVLGLLTANGQYRRTCGQGITRIRCYSGSENAFPAGKK  
ALPDCGVQEPKQGFDIYMDELEQGDRDSCSVREGMAFEDVYEVDGTGLKSDLHFLDFN  
TVSPMLVDSSLLSQSEDISSGLTDVINVTEYAEIYQYLREAEIRHRPKAHYMKKQPDIT  
EGMRTILVDWLVEVGEEYKLRAETLYLAVNFLDRFLSCMSVLRGKLQLVGTAAMLLASKY  
EEIYPPEVDEFVYITDDTYTKRQLLKMEHLLKVLAFDLTVPTTNQFLLQYLRRQGVCR  
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PCLSELHKAYLDIPHRPQQAIREKYKASKYLCVSLMEPPAVLLLQ

>sp|O95067|CCNB2\_HUMAN G2/mitotic-specific cyclin-B2 OS=Homo sapiens GN=CCNB2 PE=1 SV=1  
MALLRRPTVSSDLENIDTGVNSKVKSHVTIRRTVLEEIGNRVTTAAQVAKKAQNTKVPV  
QPTKTTNVNKQLKPTASVKPVQMEKLAPKGPSPTPEDVSMKEENLCQAFSDALLCKIEDI  
DNEDWENPQLCSDYVKDIYQYLRQLEVLQSNPHFLDGRDINGRMRAILVDWLQVHSKF  
RLLQETLYMVGIMDRFLQVQVSRKKLQLVGITALLASKYEEMFSPNIEDFVYITDNA  
YTSSQIREMETLILKELKFELGRPLPLHFLRRASKAGEVDVEQHTLAKYLMELTLIDYDM  
VHYHPSKVAASCLSQKVLGGKWNLKQYYTGYTENEVLEVMQHMAKNVVKVNEENLTK  
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>sp|P30279|CCND2\_HUMAN G1/S-specific cyclin-D2 OS=Homo sapiens GN=CCND2 PE=1 SV=1  
MELLCHEVDPVRRRAVRDRNLLRDDRVLQNLLEERYLPQCSYFKCVQKDIQPYMRRMVA  
TWMLEVCEEQKCEEEVFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTA  
EKLCIYTDNSIKPQELLEWELVVLGKWKWNLAAVTPHDFIEHILRKLPPQREKLSLIRKH  
AQTFIALCATDFKFAMYPSPMIATGSVGAACGLQQDEEVSSLTCDALTELLAKITNTDV  
DCLKACQEIEAVLLNSLQQYRQDQRDGSKEDELQASTPTDVRDIDL

>sp|Q6ZMN8|CCNI2\_HUMAN Cyclin-I2 OS=Homo sapiens GN=CCNI2 PE=2 SV=1  
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QPGAASLHAASAAPVPRRGTAPAGKTADAVPAAPEQAPRPAPQSRKPRNLEGDLDER  
RLLCHLQLAQDREARLWRGGKPQDEICDAFEEVVLWLLRLQNTFYFSQSTFNALTIFGR  
LLISVKVKEKYLHCATITSLRLAAKVNEEEFIPQVKDFTKHYGSDYSPNELLRMELAIL  
DRLHWDLYIGTPLDFTIFHALVLSWPHVLELLPQRNPSLHVASLTRQLQHCMAGHQLL  
QFKGSTLALVITILELERLMPGWCAPISDLLKKAQVGDMQYSCCKELVMQQLRSLQSSSC  
TDNFVSPAN

>sp|Q5T5M9|CCNJ\_HUMAN Cyclin-J OS=Homo sapiens GN=CCNJ PE=2 SV=2  
MELEGQWWRGQLAADIHQALRYKELKLPSYKGQSPQLSLRRYFADLIAIVSNRFTLCPSA  
RHLAVYLLDLFMDRYDISIQQLHLVALSCLLLASKFEEKEDSVPKLEQLNSLGCMTNMNL  
VLTKQNLHMELLLLLETFQWNLCPLTAHFIEYYLSEAVHETDLHDGWPMICLEKTKLYM

AKYADYFLEVSLQVAAACVASSRIILRLSPTWPTRLHRLTAYSWDFLVQCIERLLIAHDN  
DVKEANKQRGQAGPQSAQLSVFQTASQPSRPVHFQQPQYLHQTHQTSLQYRHPTSEQPSC  
QQIVSTHTTSSYTLQTCPAGFQTSVQGLGHMQTGVGMSLAIPVEVKPCLSVSYNRSYQIN  
EHYPCITPCFER

>sp|Q9UK58|CCNL1\_HUMAN Cyclin-L1 OS=Homo sapiens GN=CCNL1 PE=1 SV=1

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VKHSFEIVAMACINLASKIEEAPRRIRDVINVFHHLRQLRGKRTSPSPLILDQNYINTKNQ  
VIKAERRVLKELGFCVHVHKPHKIIVMYLQVLECERNQTLVQTAWNYMNSLRTNVFVRF  
QPETIACACIYLAARALQIPLPTRPHWFLFGTTEEEIQEICIETLRLYTRKKPNYELLE  
KEVEKRVKVALQEAQLKAKGLNPDGTPALSTLGGFSPASKPSSPREVKAEKSPISINVKT  
VKKEPEDRQQASKSPYNGVRKDSKRSRNSRSASRSRSTRSRSRSHTPRRHYNNRRSRSG  
TYSSRSRSTRSRSHSESPRRHHNHGSPHLKAKHTRDDLKSSNRHGHKRRKSRSRSQSKSRD  
HSDAAKKHRHERGHHRRRERSRSFERSHKSKHHGGSRSRGHRHR

>sp|Q8WVX3|CD003\_HUMAN Uncharacterized protein C4orf3 OS=Homo sapiens GN=C4orf3 PE=1 SV=2

MEVDAPGVDGRDGLRERRGFSEGGRQNFVVRPQSGANGLPKHSYWLDLWLFILFDVVVFL  
FVYFLP

>sp|Q6V702|CD022\_HUMAN Uncharacterized protein C4orf22 OS=Homo sapiens GN=C4orf22 PE=2  
SV=4

MDQEEGLKALDNIVTQFNAYEDFLDSQITTVDLYYLEDETLARQLVELGYRGTGERVKRE  
DFEARKAAIEIARLAERAQKQTLTSAGKDLQDNFLTALAMREEDNRSGKLSSVIFIRDRN  
SHGQEISGYIDYAHRLKTEDFEVYFTGKKRLLPRPTDISFYNWDADIAVSNSSPNYQVIA  
DNPEGLLFRYKRDRKILNVDPKAQPGDNSTRITILTELYVQAVIFDHISRRKT

>sp|Q96LM5|CD045\_HUMAN Uncharacterized protein C4orf45 OS=Homo sapiens GN=C4orf45 PE=2  
SV=3

MASVSYQKPTSTTVGKQMIFTGPDYIKDYLPKIHQHTSYVGEQHLALEKTGDLRYLWRPA  
SNRSLPAKYKHEYVSEIGWRIPQYNFINKSRLGSGFHIKYEELSQASLDSITHRYQNPWQ  
PKPHVLDMQGKQSRASFHWMSAFEDTDQRNSKWAILVRQCKSSLPRASKPPKLPKLPK  
EKRRKH

>sp|A7E2U8|CD047\_HUMAN UPF0602 protein C4orf47 OS=Homo sapiens GN=C4orf47 PE=2 SV=1

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YFDPHFVRIFEGEGYINLNQVRRRDMVEAAKKNLGKAFLPSNGEKKPCGLGSYYGTIGGP  
VPFFSAQSKPREKYKAPGKNLYTNPGKKGTYGYANITIGKQFSHSADFYDAAKLKYKKA  
NEEHHRLKLGAPFLNLHPRDYFDANPYFSEESLPPIKKEEKKKTISNTFKPSSPGKKPG  
GMKAGTFDPYPYSHSADPYVAKLANISGKDDKIFHPPSGPKSRPVESIMTLNVRRALNSKN  
YKTSSVPSY

>sp|P21127|CD11B\_HUMAN Cyclin-dependent kinase 11B OS=Homo sapiens GN=CDK11B PE=1 SV=3

MGDEKDSWKVKTLDEILQEKKRRKEQEEKAEIKRLKNSDDRDSKRDSLEEGELRDHRMEI  
TIRNSPYRREDSMEDRGEEDSLAIKPPQQMSRKEKVHHRKDEKRKEKRRHRSHSAEGGK  
HARVKEKEREHERRKRHREEQDKARREWQKRREMARHSRRERDRLEQLERKRERERK  
MREQQKEQREKERERRAEERRKEREARREVSAAHRTMREDYSDKVKASHWSRSPRP  
ERFELGDGRKPGEARPARAQKPAQLKEEKMEERDLLSDLQDISDKERTSSAESSAESG  
SGEEEEEEEEEEEEEGSTSEEEEEEEEEEEEEETGSNSEEASEQSAEEVSEEMSED  
EERENENHLLVVPESRFDRDSGESEEAEEVGEGETPQSSALTEGDYVPDSPALSPIELKQ

ELPKYLPALQGCRSVEEFQCLNRIEEGTGVVYRAKDKKTDEIVALKRLKMEKEKEGFPI  
TSLREINTILKAQHPNIVTVREIVVGSNMDKIYIVMNYVEHDLKSLMETMKQPFLPGEVK  
TLMIQLLRGVKHLHDNWILHRDLKTSNLLSHAGILKVGDFGLAREYGSPLKAYTPVVVT  
LWYRAPELLLGAKEYSTAVDMWSVGCIFGELLTQKPLFPGKSEIDQINKVFKDLGTPSEK  
IWPGYSELPAVKKMTFSEHPYNNLRKRFGALLSDQGFDLMNKFLTYFPGRRI SAEDGLKH  
EYFRETPLPIDPSMFPTWPAKSEQQRVKRGTSRPPPEGGLGYSQLGDDDLKETGFHLTTT  
NQGASAAGPGFSLKF

>sp|Q8NHZ8|CDC26\_HUMAN Anaphase-promoting complex subunit CDC26 OS=Homo sapiens GN=CDC26  
PE=1 SV=1

MLRRKPTRLEKLDDIEEFENIRKDLETRKKQKEDVEVVGSDGEGAIGLSSDPKSREQM  
INDRIGYKPQPKPNNRSSQFGSLEF

>sp|P30260|CDC27\_HUMAN Cell division cycle protein 27 homolog OS=Homo sapiens GN=CDC27  
PE=1 SV=2

MTVLQEPVQAAIWQALNHYAYRDAVFLAERLYAEVHSEEALFLLATCYRSGKAYKAYRL  
LKGHSCTTPQCKYLLAKCCVDLSKLAEGEQILSGGVFNKQKSHDDIVTEFGDSACFTLSL  
LGHVYCKTDRLAKGSECYQKSLSLNPFLWSPFESLCEIGEKPDQTFKFTSLQNF SNCL  
PNSCTTQVPNHLSHRQPETVLTETPQDTIELNRLNLESSNSKYSLNTDSSVSVIDSAVI  
SPDTVPLGTGTSILSKQVQNKPKTGRSLLGGPAALSPLTPSFGILPLETPSPGDG SYLQN  
YTNTPPVIDVPSTGAPSKKSVARIGQTGTKSVFSQSGNSREVTPILAQTQSSGPQTSTTP  
QVLSPTITSPNALPRRSSRLFTSDSSTTKENSKKLKMKFPPKIPNRKTKSKTNKGGITQ  
PNINDSLEITKLDSSIISEGKISTITPQIQAFNLQAAAEGLSLREMKGYLALCSYN  
CKEAINILSHLPSHHYNTGWVLCQIGRAYFELSEYMQAERIFSEVRR IENYRVEGMEIYS  
TTLWHLQKDVALSVLSKDLTMDKNSPEAWCAAGNCFSLQREHDIAIKFFQRAIQVDPNY  
AYAYTLGHEFVLTEELDKALACFRNAIRVNPRHYNWYGLGMIYYKQEKFSLAEMHFQK  
ALDINPQSSVLLCHIGVVQHALLKSEKALDTLNKAIVIDPKNPLCKFHRA SVLFANEKYK  
SALQEELKQIVPKESLVYFLIGKVYKKGQTHLALMNF SWAMDLPKGANNQIKEAID  
KRYLPDDEEPI TQEEQIMGTDESQESSMTDADDTQLHAAESDEF

>sp|Q9BXL8|CDCA4\_HUMAN Cell division cycle-associated protein 4 OS=Homo sapiens GN=CDCA4  
PE=1 SV=1

MFARGLKRKCVGHEEDVEGALAGLKT VSSYSLQRQSLLDMSLVKLQLCHMLVEPNLCRSV  
LIANTVRQIQEEMTQDGTWRTVAPQAAERAPLDRLVSTEILCRAAWGQEGAH PAPGLGDG  
HTQGPVSDLCPV TSAQAPRHLQSSAWEMDGPREN RGSFHKSLDQIFETLETKNPSCMEEL  
FSDVDSPPYYDLTVLTGMMGGARPGPCEGLEGLAPATPGPSSSCKSDLGELDHVVEILVE  
T

>sp|A6H8M9|CDHR4\_HUMAN Cadherin-related family member 4 OS=Homo sapiens GN=CDHR4 PE=2  
SV=1

MVLLRLLVFLFAPVSDLCSLPCFINVSESQGP GTVLQFLSFNCSSYTPTPLELLNVQP  
PTTFFNPPSLARWQGT YVGKLTLSSSAQLDALMVNHYKVQLKFTCGNHVMEGSLSDVQR  
DLSHIQCAGQFASPAGEMI QVPETVTPGARLYTLLPGLELHGAQMSIISAQDLPHFPGP  
FSINEQGWLQAPSQGLLGQAQKVFLQISVSFGQRQSCQGMVIVKVLVPSSQVSFLEQA  
QNITIPENLAPGSEVVQVQARGVDLRYEILSPVPSPLFSIGRADGVVRTTTPLELARTSG  
TAVSRLQVKAFEQGQLWASAKLNLT MNVQLVNLWPPRCLPALLVSQIPETAPVGTVLNTL  
TCEDPDSVGATLDYKLVFRSSSNPASLCLYDRVLEV NATLDCDTPGACFQHAASILVLDG  
GQPQMTTEVPVLVMVTPINEFSPACAPRTFRVQEDAAPH TLLGSVVGTDMDYPHDNIEYY

TSGGPTTFAVDRLSGEVHLLGPLDYEQQRLYRLTVLVIDHGQDQNPNNHLSGSCTITIEV  
EDVNDHAPECEPPFQELTIYAPLGRSVEVTKMSCQIPQEPQRLIYSYSIVGGNSQNRFIL  
QGAILVHSDLVLGPFWEQPRTYELLICVADAGPSTPHLSTTATIIVHLVPRRASTVATS  
THRTTVPSTMTMPLVTDTEAFWQPQPFVVLATGALLLLALGWLLGRLLQGLAQLLQA  
PSKPAQALLNSIQGTEGSIEGFLEAPKMEMSQAPSSVMSLHFDGRAQDSRTGRDYLFNT  
HTGARRWL

>sp|P06493|CDK1\_HUMAN Cyclin-dependent kinase 1 OS=Homo sapiens GN=CDK1 PE=1 SV=3  
MEDYTKIEKIGEGTYGVVYKGRHKTTGQVAMKKIRLESEEEGVPSTAIRESLLKELRH  
PNIVSLQDVLMDSRLYLIFEFLSMDLKKYLDSSIPGQYMDSSLVKSILYQILQGIVFCH  
SRRVLHRDLKPQNLLIDDKGTIKLADFGRLARAFGIPIRVYTHEVVTLYWRSPEVLLGSAR  
YSTPVDIWSIGTIFAELATKKPLFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNT  
FPKWKPGSLASHVKNLDENGLDLLSKMLIYDPAKRISGKMALNHPYFNDLDNQIKKM

>sp|Q00526|CDK3\_HUMAN Cyclin-dependent kinase 3 OS=Homo sapiens GN=CDK3 PE=1 SV=1  
MDMFQKVEKIGEGTYGVVYKAKNRETGQLVALKKIRLDLEMEGVPSTAIRESLLKELKH  
PNIVRLLDVVHNERKLYLVFEFLSQDLKKYMDSTPGSELPLHLIKSYLFQLLQGVSFCHS  
HRVIHRDLKPQNLLINELGAIKLADFGRLARAFGVPLRTYTHEVVTLYWRAPEILLGSKFY  
TTAVDIWSIGCIFAEMVTRKALFPGDSEIDQLFRIFRMLGTPSEDTPGVTQLPDYKGSF  
PKWTRKGLLEEIVPNLEPEGRDLLMQLLQYDPSQRITAKTALAHPYFSSPEPSPAARQYVL  
QRFRRH

>sp|P42771|CDN2A\_HUMAN Cyclin-dependent kinase inhibitor 2A OS=Homo sapiens GN=CDKN2A  
PE=1 SV=2  
MEPAAGSSMEPSADWLATAAARGRVEEVRALEAGALPNAPNSYGRRIQVMMMG SARVA  
ELLLLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLHRAGARLDVRDAWGRLPVDLAEE  
LGHRDVARYLRAAAGGTRGSNHARIDAAEGPSDIPD

>sp|Q49AH0|CDNF\_HUMAN Cerebral dopamine neurotrophic factor OS=Homo sapiens GN=CDNF PE=1  
SV=2  
MWCASPVAVVAFCAGLLVSHPVLTQGGQAGGRPGADCEVCKEFLNRFYKSLIDRGVNFSL  
DTIEKELISFCLDTKGKENRLCYLGGATKDAATKILSEVTRPMSVHMPAMKICEKLKKLD  
SQICELKYEKTLDLASVDLRKMRVAELKQILHSWGEECRACAETDYVNLIQELAPKYAA  
THPKTEL

>sp|Q7Z6I8|CE024\_HUMAN UPF0461 protein C5orf24 OS=Homo sapiens GN=C5orf24 PE=1 SV=1  
MMHPVASSNPAFCGPGKPSCLNEDAMRAADQFDIYSSQQSKYSHTVNHKPMVCQRQDPLN  
ETHLQTTSGRSIEIKDELKKKKNLNRSGKRGRPSGTTKSAGYRTSTGRPLGTTKAAGFKT  
SPGRPLGTTKAAGYKVSPGRPPGSIKALSRLADLGYGCGTAAPYPMMHGRAVHGVEETS  
SEVKPPNE

>sp|O94986|CE152\_HUMAN Centrosomal protein of 152 kDa OS=Homo sapiens GN=CEP152 PE=1 SV=4  
MSLDFGSVALPVQNEDEEYDEEDYEREKELQQLLTDLPHDMLDDDLSSPELQYSDCSEDG  
TDGQPHHPEQLEMSWNEQMLPKSQSVNGYNEIQSLYAGEKCGNVWEENRSKTEDRHPVYH  
PEEGGDEGGSGYSPPSKCEQTDLYHLPENFRPYTNGQKQEFNNQATNVIKFSDPQWNHFQ  
GPSCQGLEPYNKVTKPYQSSAQNNGSPAQEITGSDTFEGLQQQFLGANENSAENMQIIQ  
LQVLNKAKEQLENLIEKLNESERQIRYLNHQLVIKDEKDGLTSLRESQKLFQNGKER  
EIQLEAQIKALETQIQALKVNEEQMIKKSRRTTEMALESQQLVDLHHSESLQRRAREQHE  
SIVMGLTKKYEEQVLSLQKNLDATVTALKEQEDICSRDKDHVKQLERNQEAIKLEKTEII  
NKLTRSLEESQKQCAHLLQSGSVQEVQALQFQLQQAQKAHAMSANMNKALQEELTELKDE



ISLYESA AKLG IHPSD SEGELNIELTESYVDLGIKKVNWKSKVTSIVQEEDPNEELSKD  
EFILKLKAEVQRLLGSNSMKRHLVSQ LQNDLKCHKKIEDLHQVKKDEKSIEVETKTDTS  
EKPKNLWPESSTSDVVRDDILLKNEIQVLQQQNQELKETEGKLRNTNQDLCNQMRQMV  
QDFDHDKQEAVDRCERTYQQHHEAMKTQIRESLLAKHALEKQQLFEAYERTHLQLRSELD  
KLNKEVTAVQECYLEVCREKDNLELTLRKTTEKEQQTQEKIKEKLIQQLEKEWQSKLDQT  
IKAMKKKTLD CGSQTDQVTTSDVISKKEMA IMIEEQKCTIQQNLEQEKDIAIKGAMKKLE  
IELELKH CENITKQVEI AVQNAHQRWLGELPELA EYQALVKA EQKKWEEQHEVSVNKRIS  
FAVSEAKEKWKSELENMRKNILPGKELEEKIHS LQKELELKNEEVPVVI RAELAKARSEW  
NKEKQEEIHRIQE QNEQDYRQFLDDHRNKINEVLAAAKEDFMKQKTELL LQKETELQTCL  
DQSRREWTMQEAKRIQLEIYQYEEDILTVLGVLLSDTQKEHISDSEDKQ LLEIMSTCSSK  
WMSVQYFEKLKGC IQKAFQDTLPLLVENADPEWKKRNMAELSKDSASQGTGQDGPAAAG  
HHAQPLALQATEAEADKKKVLEIKDLCCGHCFQELEKAKQECQDLKGKLEKCCRHLQHLE  
RKHKAVVEKIGEENKNVVEELIEENNDMKNKLEELQTLCKTPPRSLSAGAIENACLPCSG  
GALEELRGQYIKAVKKIKCDMLRYIQESKERA AEMVKA EVLRRERQETARKMRKYYLICLQ  
QILQDDGKEGA EKKIMNAASKLATMAK LLETPISSKSQSKTTQSALPLTSEMLIAVKKSK  
RNDVNQKIPCCIESKSNSVNTITRTLCEQAPKRRAACNLQR LLENSEHQSIKHVGSKETH  
LEFQFGDGSKHLNSLPRNVSPFVPCEGEGFGLHKKKDLLSDNGSESLPHSAAYPFLG  
TLGNKPSPRCTPGPSESGCMHITFRDSNERLGLKVYKCNPLMESENAASEKSQGLDVQEP  
PVKGGDLSDCLGWPSSSATLSFDSREASFVHGRPQGTLEIPSESVKSKQFSPSGYLSDT  
EESNMICQTMKCQRYQTPYLSEETTYLEPGKISVNCGHPSRHKADRLKSDFKKLSSTLPS  
SVCQQPSRKLIVPLSSQQDSGFDSPFVNLD

>sp|Q9UPV0|CE164\_HUMAN Centrosomal protein of 164 kDa OS=Homo sapiens GN=CEP164 PE=1 SV=3

MAGRPLRIGDQLVLEEDYDETYIPSEQEILEFAREIGIDPIKEPELMWLAREGIVAPLP  
G  
EWKPCQDITGDIYYNFANGQSMWDHPCDEHYRSLVIQERAKLSTSGAIKKKKKKKEKKD  
KKDRDPPKSSALGSSLAPVHVPLGGLAPLRGLVDTPPSALRGSSQSVSLGSSVESGRQLG  
ELMLPSQGLKTSAYTKGLLGS IYEDKTALSLLGLGEETNEEDEEESDNQSVHSSSEPLRN  
LHLDIGALGGDFEYESLRTSQPEEKDVS LDSDAAGPPTPCKPSSPGADSSLSSAVGKG  
RQSGGARPGLP EKEENEKSEPKICRNLVTPKADPTGSEPAKASEKEAPEDTVDAGEEGSR  
REEAAKEPKKKASALEEGSSDASQELEISEHMKEPQLSDSIASDPKSFHGLDFGFRSRIS  
EHLLDVDVLS PVLGGACRQAQQPLGIEDKDDSQSSQDELQSKQSKGLEERLSPPLPHEER  
AQSPPRSLATEEEPPQGPEGQPEWKEAEELGEDSAASLSLQSLQREQAPSPPAACEKGK  
EQHSQAELGPGQEAEADPEEKVAVSPTPPVSPEVRSTEPVAPPEQLSEAALKAMEEAVA  
QVLEQDQRH LLESKQEKMQQLREKLCQEEEEELRLHQQKEQSLSSLRERLQKAIEEEEA  
RMREESQRLSWLRAQVQSSTQADEDQIRAEQEASLQKLREELESQQAERASLEQKNRQ  
MLEQLKEEIEASEKSEQAALNAEKEALQQLREQLEGERKEAVATLEKEHSAELERLCSS  
LEAKHREVVS SLQKKIQEAQQKEEAQLQKCLGQVEHRVHQSYHVAGYEHELSSLREKR  
QEVEGEHERRLDKMKEEHQVMKAREQYEAERKQRAELLGHLTGELERLQRAHERELE  
TVRQEQHKRLEDLRRRHREQERKLQDLELDLETRAKDVKARLALLEVQEETARREKQQL  
DVQRQVALKSEEATATHQQLEEAQKEHTHLLQSNQQLREILDELQARKLKLESQVDLLQA  
QSQQQLQKHFSLEAE AQKKQHLLREVTVEENNASPHFEPDLHIEDLRKSLGTNQTKEVSS  
SLSQSKEDLYLDSLSSHNVWHLLSAEGVALRSAKEFLVQQTRSMRRRQTALKAAQQHWRH  
ELASAQEVAKDPPGIKALEDMRNLEKETRHLDEMKSAMRKGHNLLKKKEEKLNLQESSL  
WEEASDEGTLGGSP TKAVTFDLSDMDSLSESESSESFSPHREWWRQQRIDSTPSLTSRK  
IHGLSHSLRQISSQLSSVLSILDSLNPQSPPLLASMPAQLPPRDPKSTPTPTYGSLAR

FSALSSATPTSTQWAWDSGQGPRLPSSVAQTVDDFLEKWRKYFPSGIPLLSNSPTPLES  
RLGYMSASEQLRLLQHSQSVP EAGSTTFQGIIEANRRWLERVKNDPRLPLFSSTPKPKA  
TSLQLGLDEHNRVKVYRF

>sp|Q8TEP8|CE192\_HUMAN Centrosomal protein of 192 kDa OS=Homo sapiens GN=CEP192 PE=1 SV=2

MKTSDLVPSFGYFIRSPEKREPIALIRKSDVSRGNLEKEMAHLNHDLYSGDLNEQSQ AQL  
SEGSITLQVEAVESTSQVDENDVTLTADKGKTEDTFFMSNKPQRYKDKLPDSGDSMLRIS  
TIASAIAEASVNTDPSQLAAMIKALSNKTRDKTFQEDEKQKDYSHVRHFLPNDLEKSNGS  
NALDMEKYLKKTEVSRYESALENFSRASMSDTWDLSPKEQTTQDIHPVDLSATSVSVRA  
PEENTAAIVYVENGESENQESFRTINSSNSVTNRENN SAVVDVKTC SIDNKLQDVGND EK  
ATSISTPSDSYSSVRNPRITSLCLLKDCEEIRDNRENQRQNECVSEISNSEKHVTFENHR  
IVSPKNSDLKNTSPEHGGGSEDEQESFRPSTSPLSHSSPSEISGTSSSGCALESFGSAA  
QQQPPCEQELSPLVCS PAGVSRLTYVSEPESSYPTTATDDALEDRKSDITSELSTTIIQ  
GSPAAL EERAMEKLREKVPFQNRGKGTLSIIQNNSDTRKATETTSLSKPEYVKP DFRW  
SKDPSSKSGNLETSEVGWTSNPEELDPIRLALLGKSGLS CQVGSATSHPVSCQEPIDED  
QRISPKDKSTAGREFSGQVSHQTTSENQCTPIPSSTVHSSVADMQNMPAAVHALLTQPSL  
SAAPFAQRYLGTL PSTGSTTL PQCHAGNATVCGFSGGLPYPAVAGEPVQNSVAVGICLGS  
NIGSGWMGTSSLCNPYSNTLNQNLSTTKPFVPVSVGTNCGIEPWDSGVTSGLSVRVPE  
ELKLPHACCVGIASQTLLSVLNPTDRWLQV SIGVLSISVNGEKVDLSTYRCLVFKNKAI I  
RPHATEEIKVLFIPSSPGVFRCTFSVASWPCSDAETIVQAEALASTVTLTAIAESPVIE  
VETEKDVLDFGDLTYGGWKALPLKLINRTHATVPIRLIINANAVAWRCFTFSKESVRAP  
VEVAPCADVVTRLAGPSVNVHMPASYDGGQDPEFLMIWVLFHSPKKQISSDILDSAE EF  
SAKVDIEVDSPNPTPVLRSVSLRARAGIARIHAPRDLQTMHFLAKVASSRKQHLPLKNAG  
NIEVYLDIKVPEQGS HFSVDPNKLLLPGEHEVIVSFTPKDPEACEERILKIFVQPF GP  
QYEVVLKGEVISSGSKPLSPGPCLDIPSILSNKQFLAWGGVPLGRTQLQKLALRNNSAST  
TQHLRLLIRGQDQCFQLQNTFGSEQRLTSNCEIRIHPKEDIFISVLFAPTRLSCMLARL  
EIKQLGNRSQPGIKFTIPLSGYGGTSNLILEGVKKLSDSYMVTVNGLVPGKESKIVFSVR  
NTGSRAAFVKAVGFKDSQKKVLLDPKVLRIFPDKFVLKERTQENVTLIYNPSDRGINNKT  
ATELSTVYLFGGDEISRQQYRRALLHKPEMIKQILPEHSV LQNINFVEAFQDELLVTEVY  
DLPQRNDVQLFYGSMCKIILSVIGEFRDCISSREFLQPSSKASLESTSDLGASGKHGGN  
VSLDVLVPKGPGQSPLLSRAARPLDQLASEEPWTVLPEHLILVAPSPCDMAKTGRFQIV  
NNSVRLLR FELCWAHCLTVTPQHGCVAPESKLQILVSPNSSLSTKQSMFPWSGLIYIHC  
DDGQKKIVKVQIREDLTQVELLTRLTSKPFGILSPVSEPSVSHLVKPMTKPPSTKVEIRN  
KSITFPTTEPGETSESCLELENHGTTDVKWLSSLAPPYVKGVDESGDVFRATYAAFRC S  
PISGLLESHGIQKVSITFLPRGRGDYAQFWDVECHPLKEPHMKHTLRFQLSGQSIEAENE  
PENACLSTD SLIKIDHLVKPRRQAVSEASARIPEQLDVTARGVYAPEDVYRFRPTSVGES  
RTLKVNLRNNSFITHSLKFLSPREPFYVKHSLRAQHYINMPVQFKPKSAGKFEALLV  
IQTDEGKSI AIRLIGEALGKN

>sp|O15078|CE290\_HUMAN Centrosomal protein of 290 kDa OS=Homo sapiens GN=CEP290 PE=1 SV=2

MPPNINWKEIMKVPDDLPRQEELADNLLISLSKVEVNELKSEKQENV IHLFRITQSLMK  
MKAQVELAL EEEV KAGEEQAKFENQLKTKVMKLENELEMAQQSAGGRDTRFLRNEICQL  
EKQLEQKDRELEDM EKELEKEKKVNEQLALRN EEAENENSKLRRENKRLKKKNEQLCQDI  
IDYQKQIDSQKETLLSRRGEDSDYRSQLSKKNYELIQYLDEIQTLTEANEKIEVQNQEMR  
KNLEESVQEMEKMTDEYNRMKAI VHQT DNV IDQLKKENDHYQLQVQELTDLLKSKNEEDD  
PIMVAVNAKVEEWKILSSKDDEIIEYQQMLHNLREKLKNAQLDADKSNVMALQQGIQER

DSQIKMLTEQVEQYTKEMEKNCTCIEDLKNELQRNKGASTLSQQTHMKIQSTLDILKEKT  
KEAERTAELAEADAREKDKELVEALKRLKDYESGVYGLEDAVVEIKNCKNQIKIRDREIE  
ILTKEINKLELKISDFLDENEALRERVGLEPKTMIDLTEFRNSKHLKQQYRAENQILK  
EIESLEERLDDLKKIRQMAQERGRSATSGLTTEDLNLTENISQGDRI SERKLDLLSLK  
NMSEAQSKNEFLSRELIEKERDLERSRTVIAKFQNKLELVEENKQLEEGMKEILQAIKE  
MQKDPDVKGGETSLIIPSLERLVNAIESKNAEGIFDASLHLKAQVDQLTGRNEELRQELR  
ESRKEAINYSQQLAKANLKDHLEKETSLLRQSEGSNVVFKGIDLPDGIAPSSASIIINSQ  
NEYL IHLQLQELNKEKKLKNLEDSLEDYNRKFAVIRHQQSLLYKEYLSEKETWKTESKTI  
KEEKRKLEDQVQQDAIKVKEYNNLLNALQMSDEMKKILAENSRKITVLQVNEKSLIRQY  
TTLVELERQLRKENEKQKNELLSMEA EVCEKIGCLQRFKEMAFKIAALQKVVDNSVSLS  
ELELANKQYNELTAKYRDILQKDNMLVQRTSNLEHLECENISLKEQVESINKELEITKEK  
LHTIEQAWEQETKLGNESMDKAKKSITNSDIVSISKKITMLEMKELNERQRAEHCQKMY  
EHLRTSLKQMEERNFELETKFAELTKINLDAQKVEQMLRDELADSVSKAVSDADRQRILE  
LEKNEMELKVEVSKLREISDIARRQVEILNAQQQSRDKEVESLRMQLLDYQAQSDKSLI  
AKLHQHNVSLQLSEATALGKLESITSKLQKMEAYNLRLEQKLDEKEQALYYARLEGRNRA  
KHLRQTIQSLRRQFSGALPLAQQEKFSKTMIIQLQNDKLIKIMQEMKNSQQEHRNMENKTLE  
MELKLKGLEELISTLKDTKGAQKVINWHMKIEELRLQELKLNRELVKDEEKIKYLNIIIS  
EYERTISSLEEEIVQQNKFHEERQMAWDQREV DLERQLDIFDRQQNEILNAAQKFEEATG  
SIPDPSLPLPNQLEIALRKIKENIRIILETRATCKSLEEKLEKESALRLAEQNILSRDK  
VINELRLRLPATAEREKLI AELGRKEMEPKSHHTLKIAHQTIANMQARLNQKEEVLKKYQ  
RLLEKAREEQREIVKKHEEDLHILHHRLELQADSSLNKFQTAWDLMKQSPTPVPTNKH  
IRLAEMEQTVAEQDDSLSSLLVKLKKVSQDLERQREITELKVKEFENIKLQLQENHEDEV  
KKVKA EVEDLKYLLDQSQKESQCLKSELQAQKEANSRAPTTTMRNLVERLSQLALKEKQ  
QKALS RALLELRAEMTAAAEERII SATSQKEAHLNVQQIVDRHTRELKTQVEDLNENLLK  
LKEALKTSKNRENSLTDNLNDLNELQKKQKAYNKILREKEEIDQENDELKRQIKRLTSG  
LQGKPLTDNKQSLIEELQRKVKKLENQLEGKVEEVDLPMKEKNAKEELIRWEEGKKWQA  
KIEGIRNKLKEKEGEVFTLTKQLNTLKDLFAKADKEKLT LQRKLTGTGMTVDQVLGIRAL  
ESEKELEELKKRNLDLENDILYMAHQALPRDSVVEDLHLQNRYLQEKLHALEKQFSKDT  
YSKPSISGIESDDHCQREQELQKENLKLSSENIELKFQLEQANKDL PRLKNQVRDLKEMC  
EFLKKEKAEVQRKLGHVGRSGRSGKT IPELEKTIGLMKKVVEKVQRENEQLKKASGILTS  
EKMANIEQENELKAELEKLKAHLGHQLSMHYESKTKGTEKIIAENERLRKELKKETDAA  
EKLRIAKNNLEILNEKMTVQLEETGKRLQFAESRGPQLEGADSKSWKSIVVTRMYETKLK  
ELETDI AKKNQSITDLKQLVKEATEREQKVKNYNEDLEQQIKILKHVPEGAETE QGLKRE  
LQVLR LANHQLDKEKAELIHQIEANKDQSGAESTIPDADQLKEKIKDLETQLKMSDLEKQ  
HLKEEIKKLKKELENFDPSPFFEEIEDLKYNKYKEEVKNILLEEKVKKLSEQLGVELTSPV  
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>sp|Q2WEN9|CEA16\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 16 OS=Homo sapiens GN=CEACAM16 PE=1 SV=2

MALTGYSWLLSATFLNVGAEISITLEPAQPSEGDNVTLVVHGLSGELLAYSWYAGPTLS  
VSYLVASYIVSTGDETPGPAHTGREAVRPDGSLDIQGILPRHSGTYILQTFNRQLQTEVG  
YGHVQVHEILAQPTVLANSTALVERRDTLRMCSSPSPTAEVRWFFNGGALPVALRLGLS  
PDGRVLARHGIRREEAGAYQCEVWNPVSVSRSEPINLTVYFGPERVAILQDSTTRTGCTI  
KVDFNTSLTLWCVSRSCPEPEYVWTFNGQALKNGQDHLNISSMTAAQEGTYTCTIAKNTKT  
LLSGSASVVVKLSAAAVATMIVPVPTKPTEGQDVTLTVQGYPKDLLVYAWYRGPASEPNR

LLSQLPSGTWIAGPAHTGREVGFPNCSSLVQKLNLTDTGRYTLKTVTVQGKTETLEVELQ  
VAPLG

>sp|Q6UY09|CEA20\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 20 OS=Homo sapiens GN=CEACAM20 PE=2 SV=1

MGPADSWGHHWMGILLSASLCTVWSPAAAQLTLNANPLDATQSEDVVLVPVFGTPRTPQI  
HGRSRELAKPSIAVSPGTAIEQKDMVTFYCTTKDVNITIHVVSNNLSIVFHERMQLSKDG  
KILTILIVQREDSGTYQCEARDALLSQRSDPIFLDVKYGPDVPEIKLESGVASGEVVEVM  
EGSSMTFLAETKSHPPCAYTWFLDLSILSHTRTFTIHAVSREHEGLYRCLVSNSATHLS  
SLGTLKVRVLETLTMPQVVPSSNLNVENARSVDLTCQTVNQSVNVQWFLSGQPLLPSEHL  
QLSADNRTLIIHGLQRNDTGPYACEVWNWGSRRARSEPLELTINYGPDQVHITRESASEMI  
STIEAELNSSLTLCWAESKPGAERYWTLHSTGEHLGEQLIIRALTWEHDIYNCTASN  
SLTGLARSTSVLVKVVGPQSSSLSSGAIAGIVIGILAVIAVASELGYFLCIRNARRPSRK  
TTEDPSHETSQPIPKKEHPTEPSESLSPEYCNISQLQGRIRVELMQPPDLPEETYETKL  
PSASRRGNSFSPWKPPPKPLMPPLRLVSTVPKNMESIYEVLMGQQ

>sp|Q3KPI0|CEA21\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 21 OS=Homo sapiens GN=CEACAM21 PE=2 SV=2

MGPPSACPHRECIPWQGLLLTASLLTFWNAPTTAWLFIASAPFEVAEGENVHLSVVYLPE  
NLYSYGWYKGKTEVPNQLIAAYVIDTHVRTPGPAYSGRETISPSGDLHFQNVLTLEDGYY  
TLQVTYRNSQIEQASHHLRVYESVAQPSIQASSTTVTEKGSVVLTCHTNNTGTSFQWIFN  
NQRLQVTKRMKLSWFNHMLTIDPIRQEDAGEYQCEVSNPVSSNRSDPLKLTVKSDDNLTG  
ILIGVLVGSLLVAALVCFLLLRKTGRASDQSDFREQPPASTPGHGPSDSSIS

>sp|P40198|CEAM3\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 3 OS=Homo sapiens GN=CEACAM3 PE=1 SV=2

MGPPSASPHRECIPWQGLLLTASLLNFWNPPTAKLTIESMPLSVAEGKEVLLL VHNL P Q  
HLFGYSWYKGERVDGNSLIVGYVIGTQQATPGAAYSGRETIYTNASLLIQNVQTNDIGFY  
TLQVIKSDLVNEEATGQFHVYQENAPGLPVGAVAGIVTGVLVGVALVAALVCFLLLAKTG  
RTSIQRDLKEQQPQALAPGRGSPSHSAFMSPLSTAQAPLPNPRTAASIYEELLKHDTNI  
YCRMDHKA EVAS

>sp|P06731|CEAM5\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 5 OS=Homo sapiens GN=CEACAM5 PE=1 SV=3

MESPSAPPHRWCIWQRLLLTASLLTFWNPPPTAKLTIESTPFNVAEGKEVLLL VHNL P Q  
HLFGYSWYKGERVDGNRQIIGYVIGTQQATPGPAYSGREI IYPNASLLIQNI IQNDTG FY  
TLHV I KSDLVNEEATGQFRVYPELPKPSISSNNSKPVEDKDAVFTCEPETQDATYLWWV  
NNQSLPVPSPRLQLSNGNRTLTLFNVTRNDTASYKCETQNPVSARRSDSVILNVLYGPDAP  
TISPLNTSYRSGENLNSCHAA SNPPAQYSW FVNGTFQQSTQELFIPNITVNNSGSYTCQ  
AHNSDTGLNRTTVTTITVYAEPKPFITSNNSNPVEDEDAVALTCEPEIQNTTYLWWVNN  
QSLPVPSPRLQLSNDNRTLTLFSVTRNDVGPYECGIQNKLSVDHSDPVILNVLYGPDDPTI  
SPSYTYRPGVNL SLSCHAA SNPPAQYSWLIDGNIQQHTQELFISNITEKNSGLYTCQAN  
NSASGHSRTTVKTTITVSAELPKPSISSNNSKPVEDKDAVFTCEPEAQNTTYLWWVNGQS  
LPVSPRLQLSNGNRTLTLFNVTRNDARAYVCGIQNSVSANRSDPVTL DVLYGPDTP IISP  
PDSSYLSGANLNSCHSASNPSQYSWRINGIPQQHTQVLFIAKITPNNNGTYACFVSNL  
ATGRNNSIVKSITVSASGTSPGLSAGATVGIMIGVLVGVALI

>sp|Q14444|CAPR1\_HUMAN Caprin-1 OS=Homo sapiens GN=CAPRIN1 PE=1 SV=2  
MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAGAAAPASQHPATGTGAVQTEAMKQILGV

IDKKLRNLEKKKGKLDQYQERMNKGRLNQDQLDAVSKYQEVNTNLEFAKELQRSFMALS  
QDIQKTIKKTARREQLMREEAEQKRLKTVLELQYVLDKLGDEVRTDLKQGLNGVPILSE  
EELSLLDEFYKLVDPERDMSRLRNEQYEHASIHLDLLEGKEKPVCGTTYKVLKEIVERV  
FQSNYFDSTHNNQNLCEEEEEASAPAVEDQVPEAEPEPAEEYTEQSEVESTYVNRQFM  
AETQFTSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQADPLVRRQRVQ  
DLMAQMQGPYNFIQDSMLDFENQTLDPAIVSAQPMNPTQNMDMPQLVCPVHSESRLAQP  
NQVPVQPEATQVPLVSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTA  
SSSLPAASQPQVFQAGTSKPLHSSGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQ  
YQASYNQSFSSQPHQVEQTELQQEQQLQTVVGTYHGSPDQSHQVTGNHQQPPQNTGFPRS  
NQPYYSRGRVSRGSRGARGLMNGYRGPANGFRGGYDGYRPSFSNTPNSGYTQSQFSAPR  
DYSYQQRDGYQQNFKRSGSGPRGAPRGRGGPPRPNRGMQMNTQQVN

>sp|Q9ULU8|CAPS1\_HUMAN Calcium-dependent secretion activator 1 OS=Homo sapiens GN=CADPS  
PE=1 SV=3

MLDPSSEEESEIVEEESGKEVLGSAPSGARLSPSRTSEGSAGSAGLGGGGAGAGAGVG  
AGGGGGSGASSGGGAGGLQPSRAGGGRPSSPSPSVVSEKEKEELERLQKEEEERKKRLQ  
LYVFMRCIAYPFNAKQPTDMARRQQKISKQQLQTVKDRFQAFLNGETQIMADEAFMNAV  
QSYEYVFLKSDRVARMVQSGGCSANDSREVFKKHIEKRVRSLEIDGLSKETVLSWMAK  
FDAIYRGEEDPRKQARMTASAASELILSKEQLYEMFNILGIKKFEHQLLYNACQLDNP  
DEQAAQIRRELDGRLQMAQIARERKFPKFSKEMENMYIEELKSSVNLLMANLESMFVS  
KGGEFKLQKLKRSHNASIIDMGEESENQLSKSDVVLFSFLEVIMEVQGLKSLAPNRIVY  
CTMEVEGGEKLQTDQAEASKPTWGTQGGDFSTHALPAVKVKLFTESTGVLALEDKELGRV  
ILHPTPNSPKQSEWHKMTVSKNCPDQDLKIKLAVRMDKPQNMKHSGLWAIGKNVWKRWK  
KRFFVLVQVSQYTFAMCSYREKKAEPQELLQLDGYTVDYTDPPGLEGGRAFFNAVKEGD  
TVIFASDDEQDRILWVQAMYRATGQSHKVPPTQVQKLNAKGGNVPQLDAPISQFYADRA  
QKHGMDEFISSNPCNFDHASLFEMVQRLTLDHRLNDSYSCLGWFSPGQVFVLDEYCARNG  
VRGCHRHLCYLRDLLERAENGAMIDPTLLHYSFAFCASHVHGPNRPGIGITVTVEEKERFE  
EIKERLRVLENQITHFRYCFPFGRPEGALKATLSLLERVLMKDIVTPVPQEEVKTVIRK  
CLEQAALVNYSRLSEYAKIEENQKDAENVGRLITPAKKLEDTIRLAELVIEVLQQNEEHH  
AEPHVDKGEAFAWWSDLMVEHAETFLSLFAVMDAALEVQPPDTWDSFPLFQLLNDFLRT  
DYNLCNGKFHKLQDLFAPLVVRYVDMESSIAQSIHRGFERESWEPVKSLSNLPNVNL  
PNVNLKPVNLPVNIPLGIPQMPTFSAPSWMAAIYDADNGSGTSEDLFWKLDALQTFIRD  
LHWPEEEFGKHLEQRLKLMASDMIESCVRTRIAFEVKLQKTSRSTDFRVPQSICTMFNV  
MVDAKAQSTKLCSMEMGQEHQYHSKIDELIETVKEMITLLVAKFVTILEGLAKLSRYD  
EGTLFSSFLSFTVKAASKYVDVPKPGMDVADAYVTVFRHSQDVLDRDKVNEEMYIERLFDQ  
WYNSSMNVICTWLTDRMDLQLHIYQLKTLIRMVKKTYRDFRLQGVL DSTLNSKTYETIRN  
RLTVEEATASVSEGGGLQGISMKDSDEEDEEDD

>sp|O14958|CASQ2\_HUMAN Calsequestrin-2 OS=Homo sapiens GN=CASQ2 PE=1 SV=2  
MKRTHLFIVGIYFLSSCRAEEGLNFPTYDGKDRVVSLEKNFKQVLKKYDLLCLYHEPV  
SSDKVTQKQFQLKEIVLELVAQVLEHKAIGFVMVDAKKEAKLAKKLGFDEEGSLYILKGD  
RTIEFDGEFAADVLEFLDLIEDPVEIISKLEVQAFERIEDYIKLIGFFKSEDSEYYK  
AFEEAAEHFQPYIKFFATFDKGVAKKLSLKMNEVDYEPFMDEPIAIPNKPYTEEELVEF  
VKEHQRPTLRRLPPEMFETWEDDLNGIHIVAFAEKSDPDGYEFLEILKQVARDNTDNP  
LSILWIDPDDFPLLVAWEKTFKIDLFRPQIGVVNVTADSVWMEIPDDDDLPTAEEL  
WIEDVLSGKINTEDDEDEDDDDNSDEEDNDDSDDDDE

>sp|Q9NQ75|CASS4\_HUMAN Cas scaffolding protein family member 4 OS=Homo sapiens GN=CASS4  
PE=1 SV=2

MKGTGIMDCAPKALLARALYDNCPCDSELAFSRGDILTILEQHVPESGWWKCLLHGRQ  
GLAPANRLQILTEVAADRPCPPFLRGLEEAPASSEETYQVPTLPRPPTPGPVYEQMRSWA  
EGPQPPTAQVYEFDPPTSARIICEKTLSPFKQAILTLPRPVASLPTLPSQVYDVPTQH  
RGPVVLKEPEKQQLYDIPASPKKAGLHPPDSQASGGVPLISVTTLRRGGYSTLPNPQKS  
EWIYDTPVSPGKASVRNTPLTSFAEESRPHALPSSSSTFYNPSPGRSRSLTPQLNNNVPM  
QKKLSLPEIPSYGFLVPRGTFPLDEDVSYKVPSSFLIPRVEQQNTKPNIIDIPKATSSVS  
QAGKELEKAKEVSENSAGHNSSWFSRRTTSPSPEPDRLSGSSSDSRASIVSSCSTTSTDD  
SSSSSSEESAKELSLDLVAKETVMALQHKVVSSVAGLMLFVSRKWRFRDYLEANIDATH  
RSTDHIEESVREFLDFARGVHGACNLTDNLQNRIRDQMTISNSYRILLETKESLDNR  
NWPLEVLTDSVQNSPDDLRFVMVARMLPEDIKRFASIVIANGRLLFKRNCEKEETVQL  
TPNAEFKCEKYIQQPRETESHQKSTPSTKQREDEHSSSELLKKNRANICGQNPGLIPQP  
SSQQTPERKPRLSEHCRLYFGALFKAISAFHGSLSQQPAEITQSKLVIMVGQKLVDTL  
CMETQERDVRNEILRGSSHLCSLLKDVALATKNAVLTYPSPAALGHLQAEAEKLEQHTRQ  
FRGTLG

>sp|P07858|CATB\_HUMAN Cathepsin B OS=Homo sapiens GN=CTSB PE=1 SV=3

MMQLWASLCCLLVLANARSRPSFHPLSDELVNYVNKRNTTWQAGHNFYNVDMSYKRLCG  
TFLGGPKPPQRMFTEDLKLPAFSDAREQWPQCPTIKEIRDQGSCGSCWAFGAVEAISDR  
ICHTNAHVSVEVSAEDLLTCCGSMCGDGCNGGYPAEAWNFWTRKGLVSGGLYESHVGR  
PYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHYGYNSYSVSNSEKDIM  
AEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGHAIIRILGWGVENGTPYWLANSW  
NTDWGDNQFFKILRGQDHCGIESEVVAGIPRTDQYWEKI

>sp|P56539|CAV3\_HUMAN Caveolin-3 OS=Homo sapiens GN=CAV3 PE=1 SV=1

MMAEHTDLEAQIVKDIHCKEIDLVRNRPKNINEDIVKVFEDVIAEPVGTYSFDGVWKV  
SYTFTVSKYWCRYLLSTLLGVPLALLWGFLFACISFCHIWAHVPCIKSYLIEIQCISHI  
YSLCIRTFCNPLFAALGQVCSSIKVVLKVEV

>sp|Q9BXY5|CAYP2\_HUMAN Calcyphosin-2 OS=Homo sapiens GN=CAPS2 PE=2 SV=2

MGNFSCYTAVYCMINTGTQMDLEVKGVAATSRSQIQPFGRKKPLQQRWTSESWTNQNSC  
PPVVPRLDLGSLVSDDEDNFSYIPLSTANLPNSSSTLGWVTPCQTPYTQYHLNKLDQNI  
IPENLPAPTDKCKLKYQQCKTEIKEGYKQYSQRNAENTKSNVTHKQSPRNKIDEKCVQDE  
EANTDDLTTLDRAKILQQGYADNSCDKQQRARKLDAEIVAAEKKKQIVAEQVMIDHLSRA  
VISDPEQNLAIEQKESDHILPDSKMTPLRFRKRTLHETKIRTHSTLTENVLSHKLQFDGR  
IVSRNRGRDACRELIGFFFTHDQSLTIYEYRQFGKNRTNVLPIQKSIYSHQCGRRKGKQY  
RLGDFYVGATLTLSSDHLSPESIKENTLLKLRTNIDQIALDSLKTASMEQEDDIIIQ  
ETNDRLVFKAIQDVLKEKLHKGVRILTGLGKYFQQLDKEGNLLDKADFKQALKVFHLE  
VSEKDFESAOWLILNDNGNGKVDYGEFKRGIIGEMNEYRKSIVRKAFMKLDNFNKSQSVPII  
NIRKCYCAKKHSQVISG

>sp|P47755|CAZA2\_HUMAN F-actin-capping protein subunit alpha-2 OS=Homo sapiens GN=CAPZA2  
PE=1 SV=3

MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNLD  
QFTPVKIEGYEDQVLITEHGDLNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESW  
RTSVETALRAYVKEHYPNGVCTVYGKKIDGQQTIIACIESHQFQAKNFWNGRWRSEWKFT  
ITPSTTQVVGILKIQVHYEDGNVQLVSHKDIQDSLTVSNEVQTAKEFIKIVEAAENEYQ

TAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

>sp|Q8N535|CB052\_HUMAN Putative uncharacterized protein encoded by LINC00471 OS=Homo sapiens GN=LINC00471 PE=5 SV=1

MSEAKDNGSRDEVLVPHKNCRKNTTVPGKKGEEKSLAPVFAEKLISPSRRGAKLKDRESH  
QENEDRNSELQDEEDKESFCRGFMSGCELETSCCVCHSTALGERFC

>sp|Q53QW1|CB057\_HUMAN Uncharacterized protein C2orf57 OS=Homo sapiens GN=C2orf57 PE=1 SV=1

MALPGYPLGNVDDSRKDSPAGEPQGQVPLTADVLAVSSSVASTDWQDIDQASFKTATPR  
AISTSGDKDKSAVVPEHGQKTPRKITPLPSQNPSPLQVMSLQNPADWRQVQDARTSQS  
LVVFP SHLLGKDKMSQMASVPEREPESAPSAPS AELQSTQHMEAQPVESDADHV TAGANG  
QHGPQAAS TTKS AEEKAEHPKAPHPEAEALPSDESPVAMGANVDSLGLQ TWFFPPPPA  
GSVSPSPGPHEVALGRRPLDSSLYTASENSYMRSM TSLDRGEGSISS LADILVWSETT  
MGMAIATGFLDSGHSTVADLLHSSGSPSLRSVPSLVGSVSSAFSSGLVSGTSSALRTITRV  
LETVEQRTVEGIRSAMRYLTSHLTTPRQAQADPNYD

>sp|Q8N801|CB061\_HUMAN Uncharacterized protein C2orf61 OS=Homo sapiens GN=C2orf61 PE=2 SV=2

MDQPAVATASTSIREDLVGGESFITASKPAQKTSSFEREGWWRIALTDTPIPGTYHLKTF  
IEESLLNPVIATYNFKNEGRKKPPLVQRNNPVLNDLPQYMPPDFDL LKKQVATYSFKDK  
PRPSPSTLV DQDQSLQLSPGQYNVLPAPVPKYASRSCVFRSTVQRFP TTYFIPHEGPGPG  
HYNVKMPPTSSVTSCFQSRVPRFLPSCSKTPGPGAYTTLRQFPKQSPTIAKMGQEHS LFF  
NNNNWLLK

>sp|A8MZ97|CB074\_HUMAN Uncharacterized protein C2orf74 OS=Homo sapiens GN=C2orf74 PE=4 SV=3

MSLLAKPMSFETTAITFFIILLICLICILLLLVVF LYKCFQGRKGKETKKVPCTDANGGV  
DCAA KVVTSNPEDHERILMQVMNLNVPMPRGILVQRQSKEVLATPLENRRDMEAE EENQ  
INEKQEPENAGETGQEEDDGLQKIHTSVTRTPSVVESQKRPLKGVTF SREVIVVDLGNEY  
PTPRSYTREHKERK

>sp|Q13191|CBLB\_HUMAN E3 ubiquitin-protein ligase CBL-B OS=Homo sapiens GN=CBLB PE=1 SV=2

MANS MNGRNPGGRGGNPRKGRILGIIDAIQDAVGPPKQAAADRRTVEKTWKLMDKVVR LC  
QNP KLQLKNSPPYILDILPDTYQHLRLILSKYDDNQKLAQLSENEYFKIYIDSLMKKSKR  
AIRLFKEGKERMYEEQSQDRRNLT KLSLIFSHMLAEIKAI FPNQGFGDNFRITKADAAE  
FWRKF FGDKTIVPWKVRQCLHEVHQISSGLEAMALKSTIDLTCNDYISVFEFDIFTRLF  
QPWGSILRNWNFLAVTHPGYMAFLTYDEVKARLQKYSTKPGSYIFRLSCTRLGQWAIGYV  
TGDGNILQTIPH NKPLFQALIDGSREGFYLYPDGRSYNPDLTGLCEPTHDIKVTQE QY  
ELYCEMGSTFQLCKICAENDKDVKIEPCGHLMCT SCLTAWQESDGQGC PFCRCEIKGTEP  
IIVDPFDPRDEGSRCCSIIDPFGMPMLDLDDDDREESLMNRLANVRKCTDRQNSPVTS  
PGSSPLAQRRKPQPDPLQIPHLSLPPVPPRLDLIQKGIVRSPCGSPTGSPKSSPCMV RKQ  
DKPLPAPPPPLRDP PPPPPPERPPP IPPDNRLSRHIIHVESVPSRDPPMPLEAWCPRDVFG  
TNQLVGCRLLEGESPKPGITASSNVNGRHSRVGSDPVLMRKHRRHDLPLEGAKVFSNGHL  
GSEYDVPPRLSPPPPVTTLLPSIKCTGPLANSLSEKTRDPVEEDDDEYKIPSSHPVSLN  
SQPSHCHNVKPPVRSCDNGHCMLNGTHGPSSEKKSNI PDLSIYLKGDVFDSASDPVPLPP  
ARPPTRDNPKHGSSLNRTPSDYDLLIPPLGEDAFDALPPSLPPPPPPARHSLIEHSKPPG  
SSSRPSSGQDLFLLPSDPFVDLASGQVPLPPARRLPGENVKTNRTSQDYDQLPSCSDGSQ  
APARPPKPRPRRTAPEIHHRKPHGPEAALENVDAKIAKLMGEGYAFEEVKRALEIAQNNV

EVARSILREFAFPPPVSRLNL

>sp|P15088|CBPA3\_HUMAN Mast cell carboxypeptidase A OS=Homo sapiens GN=CPA3 PE=1 SV=2

MRLILPVGLIATTLAIAPVRFDREKVFVRKPKQDEKQADI IKDLAKTNELDFWYPGATHHV  
AANMMVDFRVSEKESQAIQSALDQNMHYEIL IHDLQEEIEKQFDVKEDIPGRHSYAKYN  
NWEKIVAWTEKMDKYPEMVSRIGSTVEDNPLYVLKIGEKNNERRKAIFTDCGIHAREW  
VSPAFCQWFVYQATKTYGRNKIMTKLLDRMNFYILPVFNVDGYIWSWTKNRMWRKNRSKN  
QNSKCIGTDLNRNFNASWNSIPNTNDPCADNYRGSAPSEKETKAVTNFIRSHLNEIKVY  
ITFHSYSQMLLFPYGYTSKLPPNHEDLAKVAKIGTDVLSTRYETRYIYGPIESTIYPISG  
SSLDWAYDLGIKHTFAFELRDKGKFGFLLPESRIKPTCRETMLAVKFI AKYILKHTS

>sp|Q8WXQ8|CBPA5\_HUMAN Carboxypeptidase A5 OS=Homo sapiens GN=CPA5 PE=2 SV=1

MQGTPGGGTRPGSPVDRRTLLVFSFILAAALGQMNTGDQVLRVLAKDEKQLSLLGDLE  
GLKPQKVDFWRGPARPSLPVDMRVPFSELKDIKAYLESHGLAYSIMIKDIQVLLDEERQA  
MAKSRRLERSTNSFSYSSYHTLEEIYSWIDNFVMEHSDIVSKIQIGNSFENQSILVLKFS  
TGGSRHPAIWIDTGIHSREWITHATGIWTANKIVSDYGKDRVLT DILNAMDIFIELVTNP  
DGFATHTSMNRLWRKNKSIRPGIFCIGVDLNRNWKSGFGGNGSNSNPCSETYHGSPSQSE  
PEVAAIVNFITAHGNFKALISIHYSQMLMYPYGRLLPEVSNQRELYDLAKDAVEALYKV  
HGIEYIFGSISTTLYVASGITVDWAYDSGIKYAFSFE LRDTGQYGFLLPATQIIPTAQET  
WMALRTIMEHTLNHPY

>sp|P14384|CBPM\_HUMAN Carboxypeptidase M OS=Homo sapiens GN=CPM PE=1 SV=2

MDFPCLWLGLLLPLVAALDFNYHRQEGMEAF LKTVAQNYSSVTHLSIGKSVKGRNLWVL  
VVGRFPKEHRIGIPEFKYVANMHGDETVGRELL LHLIDYLVTSDGKDPEITNLINSTRIH  
IMPSMNPDGFEAVKKPCDYSIGRENYNQYDLNRNFPDAFEYNNVSRQPETVAVMKWLKT  
ETFVLSANLHGGALVASYPFDNGVQATGALYSRSLTPDDDV FQYLAHTYASRNPNMKKG  
ECKNKMNFPGVTNGYSWYPLQGGMQDYN IWAQCFEITLELSCCKYPREEKLPSFWNN  
KASLIEYIKQVHLGVKGQVFDQNGNPLPNV IVEVQDRKHICPYRTNKYGEYLLLLPGSY  
IINVTVPGHDPHTKVIIEKSNFSAKKDILLPFQGGQLDSIPVSNPSCPMIPLYRNLP  
DHSAA TKPSLFLFLVSLHIFFK

>sp|P15169|CBPN\_HUMAN Carboxypeptidase N catalytic chain OS=Homo sapiens GN=CPN1 PE=1 SV=1

MSDLLSVFLHLLLLFKLVAPVTRHHRYYDDLVRTLYKVQNECPGITRVYSIGRSVEGRHL  
YVLEFSDHPGIEHEPLEPEVKYVGNMHGNEALGREMLQLSEFLCEEFRNRNQRIVQLIQD  
TRIHLPSMNPDGYEVAQAQGNPKPGYL VGRNNANGVDLNRNFPDLNTYIYYNEKYGGPN  
HHLPLPDNWKSQVEPETRAVIRWMHSFNFVLSANLHGGAVVANYPYDKSFEHRVRGVRRT  
ASTPTPDDKLFQKLAKVYSYAHGWMFQGWNCGDYFPDGITNGASWYSLSKGMQDFNYLHT  
NCFEITLELSCDKFPPEELQREWLGNREALIQFLEQVHQGIKGMVL DENYNLANAVIS  
VSGINHDTVSGDHGDYFRLLLPGIYTVSATAPGYDPETVTVTVGPAEPTLVNFHLKRSIP  
QVSPVRRAPSRRHGVRKVQPQARKKEMEMRQLQRGPA

>sp|Q8IVL8|CBPO\_HUMAN Carboxypeptidase O OS=Homo sapiens GN=CPO PE=1 SV=1

MKPLLETLYLLGMLVPGGLGYDRSLAQHRQEIVDKSVSPWSLETYSYNIYHPMGEIYEW  
REISEKYKEVVTQHFLGVTYETHPMYYLKISQPSGNPKKI IWMDCGIHAREWIAPAFQW  
FVKEILQNHKDNSSIRKLLRNLDYFVLPVLNIDGYIYTWTTDRLWRKSRSPHNNGTCFGT  
DLNRNFNASWCSIGASRNCQDQTFCTGTPVSEPETKAVASFIESKKDDILCFLTMHSYQQ  
LILTPYGYTKNKSSNHPEMIQVGQKAANAL KAKYGTNYRVGSSADILYASSGSSRDWARD  
IGIPFSYTFELRDSGTYGVLPEAQIQPTCEETMEAVLSVLDDVYAKHWHSDSAGRVTSA



TMLLGLLVSCMSLL

>sp|Q9BRT8|CBWD1\_HUMAN COBW domain-containing protein 1 OS=Homo sapiens GN=CBWD1 PE=2 SV=1

MLPAVGSADEEEDPAEEDCPelvPIETTQSEEEKSGLGAKIPVTIITGYLGAGKTTLLN  
YILTEQHskrvAVILNEFGGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDSGLRAI  
ENLMQKKGKFDYILLETTGLADPGAVASMFVWDAELGSDIYLDGIITIVDSKYGLKHLTE  
EKPDGLINEATRQVALADAILINKTDLVPEEDVKKLRTTIRSINGLGQILETQRSRVdLS  
NVLDLHAFDSLGSISLQKKLQHVPGTQPHLDQSIVTITFEVPGNAKEEHLNMFIQNLLWE  
KNVRNKNdNHCMEVIRLKLVSIKDKSQQVIVQGVHELYDLEETPVSWKDDTERTNRLVLL  
GRNLdKDILKQLFIATVTETEKQWTRFQEDQVCT

>sp|Q9HC52|CBX8\_HUMAN Chromobox protein homolog 8 OS=Homo sapiens GN=CBX8 PE=1 SV=3

MELSAVGervFAAEALLKRRIRKGRMEYLKWKGSQKYSTWEPEENILDARLLAAFEER  
EREMELYGPKKRGPKPKTFLKAKAKAKAKTYEFRSDSARGIRIPYPGRSPQDLASTSRA  
REGLRNMGLSPPASSTSTSSTCRAEAPDRDRDRDRDRERERERERERERERERERERER  
GTSRVDDKPPSGDSSKKRGPKPRKELPDPSQRPLGEPsAGLGEYLKGRKLDDTPSGAGK  
FPAGHSVIQLARRQDSDLVQCgVTSPPSSAEATGKLAVDTFPARVIKHRAAFLEAKGQGal  
DPNGTRVRHSGPPSSGGGLYRDMGAQGGRPslIARIPVARILGDPEEESWSPSLTNLEK  
VVVTDVTSNFLTVTIKESNTDQGFFKEKR

>sp|Q8N813|CC056\_HUMAN Putative uncharacterized protein C3orf56 OS=Homo sapiens GN=C3orf56 PE=2 SV=1

MGTGASEKQAEQKVRRAFEASEEahGTlaASTPWVAMGSAYGSCtCLGAQPVTDLALWPV  
IYSCMGfSPQAYPAFWAYPWVLYGGYLWMGYPPPAALVPSVWLYWRGASSFDPLIGSPYL  
AALAPNLFPFPMKFPPTYSLASPTLGGATSSHCPQVGCWTPASSAPRAAVEGPSRGAPYL  
KTCKAPPSEWASRFGIWAPLPCCSSELRLPPSPiEDSQLDPGCSRSSSRSPCRARRRLF  
EC

>sp|Q86WR0|CCD25\_HUMAN Coiled-coil domain-containing protein 25 OS=Homo sapiens GN=CCDC25 PE=1 SV=2

MVFYFTSSSVNssAYTIYMGKDKYENEDLIKHGWPEDIWFHVDKLSSAHVYLRLHKGENI  
EDIPKEVLMDCAHLVKANSIQGCKMNNVNVVYTPWSNLKKTADMDVGQIGFHRQKDVKIV  
TVEKKVNEILNRLEKTKVERFPDLAAEKECRDREERNEKKAQIQEMKKREKEEMKKKKREM  
DELRSYSSLMKVENMSSNQDGNDSDEFM

>sp|Q9UFE4|CCD39\_HUMAN Coiled-coil domain-containing protein 39 OS=Homo sapiens GN=CCDC39 PE=2 SV=3

MSSEFLAELHWEDGFAIPVANEENKLLedQLSKLKDERASLQDELREYEERINSMTSHFK  
NVKQELSITQSLCKARERETESeeHFKAIAQRELGRVKDEIQRLenEMASILEKKSDKEN  
GIFKATQKLDGLKCQMNWDQqALEAWLEESAHKDSdalTLQKYAQDDNKIRALTLQLER  
LTLECNQKRKILDNELTETISaQLELDKAAQDFRKIHNERQELIKQWENTIEQMQRDGD  
IDNCALELARIKQETREKENLVKEIKFLESEIGNNTEFEKRISVADRKLLKRTAYQDH  
ETSRIQLKGELDSLKATVNRTSSDLEALRKNISKIKDIHEETARLQTKNHNEIIQTKL  
KEITEKTMSVEEKATNLEDMLKEEEKDVKEVDVQLNLIKGVLFKKAQELQTETMKEKAVL  
SEIEGTRSSLKHLNHQLKQLDFETLKQqEIMYSQDFHIQQVERRMSRLKGEINSEEKQAL  
EAKIVELRKSLEEKSTCGLLETQIKKLHNDLYFIKKAHSKNSDEKQSLMTKINELNLFi  
DRSEKELDKAKGFKQDLMIEDNLLKLEVKRTREMLHskAEeVLSLEKRKQQLYTAMEERT  
EEIKVHKTMLASQIRYVDQERENISTEFrERLSKIEKLKNRYEILTVVMLPPEGEEEEKTQ

AYYV I K A A Q E K E E L Q R E G D C L D A K I N K A E K E I Y A L E N T L Q V L N S C N N N Y K Q S F K K V T P S S  
D E Y E L K I Q L E E Q K R A V D E K Y R Y K Q R Q I R E L Q E D I Q S M E N T L D V I E H L A N N V K E K L S E K Q A  
Y S F Q L S K E T E E Q K P K L E R V T K Q C A K L T K E I R L L K D T K D E T M E E Q D I K L R E M K Q F H K V I D E  
M L V D I I E E N T E I R I I L Q T Y F Q Q S G L E L P T A S T K G S R Q S S R S P S H T S L S A R S S R S T S T S T S  
Q S S I K V L E L K F P A S S S L V G S P S R P S S A S S S S S N V K S K K S S K

>sp|Q4G0X9|CCD40\_HUMAN Coiled-coil domain-containing protein 40 OS=Homo sapiens GN=CCDC40  
PE=2 SV=2

M A E P G G A A G R S H P E D G S A S E G E K E G N N E S H M V S P P E K D D G Q K G E E A V G S T E H P E E V T T Q A  
E A A I E E G E V E T E G E A A V E G E E E A V S Y G D A E S E E E Y Y Y T E T S S P E G Q I S A A D T T Y P F S P P  
Q E L P G E E A Y D S V S G E A G L Q G F Q Q E A T G P P E S R E R R V T S P E P S H G V L G P S E Q M G Q V T S G P A  
V G R L T G S T E E P Q G Q V L P M G V Q H R F R L S H G S D I E S S D L E E F V S Q E P V I P P G V P D A H P R E G D  
L P V F Q D Q I Q Q P S T E E G A M A R V E S E G S D E E A E D E G S Q L V V L D P D H P L M V R F Q A A L K N Y L N  
R Q I E K L K L D L Q E L V V A T K S R A Q R Q E L G V N L Y E V Q Q H L V H L Q K L L E K S H D R H A M A S S E R R  
Q K E E L Q A A R A L Y T K T C A A A N E E R K K L A A L Q T E M E N L A L H L F Y M Q N I D Q M R D D I R V M T Q  
V V K K A E T E R I R A E I E K K K Q D L Y V D Q L T T R A Q Q L E E D I A L F E A Q Y L A Q A E D T R I L R K A V S E  
A C T E I D A I S V E K R R I M Q Q W A S S L V G M K H R D E A H R A V L E A L R G C Q H Q A K S T D G E I E A Y K K S  
I M K E E E K N E K L A S I L N R T E T E A T L L Q K L T T Q C L T K Q V A L Q S Q F N T Y R L T L Q D T E D A L S Q D  
Q L E Q M I L T E E L Q A I R Q A I Q G E L E L R R K T D A A I R E K L Q E H M T S N K T T K Y F N Q L I L R L Q K E K  
T N M M T H L S K I N G D I A Q T T L D I T H T S S R L D A H Q K T L V E L D Q D V K K V N E L I T N S Q S E I S R R T  
I L I E R K Q G L I N F L N K Q L E R M V S E L G G E E V G P L E L E I K R L S K L I D E H D G K A V Q A Q V T W L R L  
Q Q E M V K V T Q E Q E E Q L A S L D A S K K E L H I M E Q K K L R V E S K I E Q E K E Q K E I E H H M K D L D N D L  
K K L N M L M N K N R C S S E E L E Q N N R V T E N E F V R S L K A S E R E T I K M Q D K L N Q L S E E K A T L L N Q L  
V E A E H Q I M L W E K K I Q L A K E M R S S V D S E I G Q T E I R A M K G E I H R M K V R L G Q L L K Q E K M I R A  
M E L A V A R R E T V T T Q A E G Q R K M D R K A L T R T D F H H K Q L E L R R K I R D V R K A T D E C T K T V L E L E  
E T Q R N V S S L L E K Q E K L S V I Q A D F D T L E A D L T R L G A L K R Q N L S E I V A L Q T R L K H L Q A V K E  
G R Y V F L F R S K Q S L V L E R Q R L D K R L A L I A T I L D R V R D E Y P Q F Q E A L H K V S Q M I A N K L E S P G  
P S

>sp|Q9Y6R9|CCD61\_HUMAN Coiled-coil domain-containing protein 61 OS=Homo sapiens GN=CCDC61  
PE=1 SV=3

M D Q P A G L Q V D Y V F R G V E H A V R V M V S G Q V L E L E V E D R M T A D Q W R G E F D A G F I E D L T H K T G N  
F K Q F N I F C H M L E S A L T Q S S E S V T L D L L T Y T D L E S L R N R K M G G R P G S L A P R S A Q L N S K R Y L  
I L I Y S V E F D R I H Y P L P L P Y Q G K P D P V V L Q G I I R S L K E E L G R L Q G L D G Q N T R D T R E N E I W H  
L R E Q V S R L A S E K R E L E A Q L G R S R E E A L A G R A A R Q E A E A L R G L V R G L E L E L R Q E R G L G H R V  
A G R R G Q D C R R L A K E L E E A K A S E R S L R A R L K T L T S E L A L Y K R G R R T P P V Q P P P T R E D R A S S  
S R E R S A S R G R G A A R S S S R E S G R G S R G R P A R P S P T G G R A L R F D P T A F V K A K E R K Q R E  
I Q M K Q Q R N R L G S G S G D G P S V S W S R Q T Q P P A A L T G R G D A P N R S R N R S S S V D S F R S R C S S  
A S S C S D L E D F S E S L S R G G H R R R G K P P S P T P W S G S N M K S P P V E R S H H Q K S L A N S G G W V P I K  
E Y S S E H Q A A D M A E I D A R L K A L Q E Y M N R L D M R S

>sp|Q6P9F0|CCD62\_HUMAN Coiled-coil domain-containing protein 62 OS=Homo sapiens GN=CCDC62  
PE=1 SV=2

M N P P A A F L A G R Q N I G S E V E I S T I E K Q R K E L Q L L I G E L K D R D K E L N D M V A V H Q Q Q L L S W E E  
D R Q K V L T L E E R C S K L E G E L H K R T E I I R S L T K K V K A L E S N Q M E C Q T A L Q K T Q L Q L Q E M A Q K  
A T H S S L L S E D L E A R N E T L S N T L V E L S A Q V G Q L Q A R E Q A L T T M I K L K D K D I I E A V N H I A D C  
S G K F K M L E H A L R D A K M A E T C I V K E K Q D Y K Q K L K A L K I E V N K L K E D L N E K T T E N N E Q R E E I

IRLKQEKSCSLHDELLFTVEREKRKDELLNIAKSKQERTNSELHNLRLQIYVKQQSDLQFLN  
FNVENSQELIQMYDSKMEESKALDSSSRDMCLSDLENNHPKVDIKREKNQKSLFKDQKFEA  
MLVQQNRSDKSSCDECKEKKQIDTVFGEKSVITLSSIFTKDLVEKHNLPSWLGKGTQIE  
PENKITLCKIHTKSPKCHGTGVQNEGKQPSETPTLSDEKQWHDVSVYLGLTNCPSKHP  
KLDVECCQDQMERSEISCCQKNEACLGESGMCDSKCCHPSNFIIEAPGHMSDVEWMSIFKP  
SKMQRIVRLKSGCTCSEICGTQHDSASELIAIQDSHSLGSSKSALREDETESSNKK  
SPTSLLIYKDAPAFNEKASIVLPSQDDFSPTSKLQRLLAESRQMTDLELSTLLPISHEN  
LTGSATNKSEVPEESAQKNTFVS

>sp|A2IDD5|CCD78\_HUMAN Coiled-coil domain-containing protein 78 OS=Homo sapiens GN=CCDC78  
PE=2 SV=1

MEHAATTGPRPGPPSRVENNVLRKDWLPGAPGGTAVWATSLEAEVPPDLALNKEQQLQ  
ISKELVDIQITTHHLHEQHEAEIFQLKSEILRLESRVLELELRGDGTSQGCAPVVEDPR  
HPRAAAQELRHKAQVPGHSDHFRFVQPKNTMNPENEQHRLGSLQGEVWALEHQEARQ  
QALVTRVATLGRQLQGAREEARAAGQRLATQAVVLCSCQGQLRQAEAEENARLQLQLKKLK  
DEYVLRQLHCAWQAVEHADGAGQAPATTALRTFLEATLEDIRAAHRSREQLARAARSYH  
KRLVDLSRRHEELLVAYRAPGNPQAIFDIASLDLEPLVPVPLVTDFSHREDQHGGPGALLS  
SPKKRPGGASQGGTSEPQGLDAASWAQIHQKLRDFSRSTQSWNGSGHSCWSGPRWLKSNF  
LSYRSTWTSTWAGTSTKS

>sp|Q76M96|CCD80\_HUMAN Coiled-coil domain-containing protein 80 OS=Homo sapiens GN=CCDC80  
PE=1 SV=1

MTWRMGPRFTMLLAMWLVCSEPHPHATIRGSHGGRKVPLVSPDSSRPARFLRHTGRSRG  
IERSTLEEPNLQPLQRRRSVPVLRLARPTTEPPARSDINGAAVRPEQRPAARGSPREMIRD  
EGSSARSRMLRFPSSSSPNILASFAGKNRVVVISAPHASEGYRLLMMSLLKDDVYCELA  
ERHIQQIVLFHQAGEEGGKVRITSEGQILEQPLDPSLIPKLMSFLKLEKGKFGMVLLKK  
TLQVEERYPPVRLAMEYVIDQGPIRRIEKIRKGFVQCKASGVEGQVVAEGNDGGGG  
AGRPSLGSEKKKEDPRRAQVPPTRESRVKVLRLAATAPALPQPPSTPRATTLPPAPATT  
VTRSTSRAVTVAARPMTTAFPTTQRPWTPSPSHRPPTTEVITARRPSVSENLYPPSRK  
DQHRERPQTTRRPSKATSLESFTNAPPTTISEPSTRAAGPGRFRDNRMDRREHGHDPNV  
VPGPPKAKEKPPKKAQDKILSNEYEEKYDLRPTASQLEDELQVGNVPLKKAKESKKH  
EKLEKPEKEKKKKMKNNADKLLKSEKQMKKSEKSKQEKEKSKKKKGKTEQDGYQKPT  
NKHFTQSPKKSADLLGSFEGKRRLLLITAPKAENMYVQQRDEYLESFCKMATRKISVI  
TIFGPVNNSTMKIDHFQLDNEKPMRVVDEDLVDQRLISELRKEYGMTYNDFFMVLTDVD  
LRVKQYYEVPITMKSVDLIDTFQSRIKMEKQKKEGIVCKEDKKQSLNFLSRFRWRRR  
LLVISAPNDEDWAYSQQLSALSGQACNFGRLRHITILKLLGVGEEVGVLELFPINGSSVV  
EREDVPAHLVKDIRNYFQVSPEYFSMLLVGKDGNVKSWYSPMWSMVIYDLIDSMQLRR  
QEMAIQQSLGMRCPEDEYAGYGYHSYHQGYQDGYQDDYRHHSYHHGYPY

>sp|Q8N4S0|CCD82\_HUMAN Coiled-coil domain-containing protein 82 OS=Homo sapiens GN=CCDC82  
PE=1 SV=2

MIHVRRHETRNSKSHVPEQKSRVDWRRTKRSSISQLLDSDEELDSEEFDSDEELSDDES  
FENDEELDSNKGPDCKNTPGSERELNLSKIQSEGNSKCLINSGNGSTYEEETNKIKHRN  
IDLQDQEKHLSQEDNDLNKQTGGIIEDDQEKHLSQEDNDLNKQTGGIIEDDLEEEDIKRG  
KRKRLSSVMCDSDSDSDILVRKVGKRPVVEDEGSSVEMEQTPEKTLAAQKREKL  
QKLKELSKQRSRQRSSGRDFESEKESCPSSDEVDEEEEDNYEDEDGDDYIIDDFVV  
QDEEGDEENKNQGEKLTTSQKLKLVKQNSLYSFSQDHYTHFERVVKALLINALDESFLGTL

YDGTRQKSYAKDMLTSLHYLDNRFVQPRLESLVSRSRWKEQYKERVENYSNVSIHLKNPE  
NCSCQACGLHRYCKYSVHLSGELYNTRTMQIDNFMShDKQVFTVGRICASRTRIYHKLKH  
FKFKLYQECCTIAMTEEVEDEQVKETVERIFRRSKENGWIKKEYGQLEEYLNADYFQEE  
KFEL

>sp|Q9UF02|CCG5\_HUMAN Voltage-dependent calcium channel gamma-5 subunit OS=Homo sapiens  
GN=CACNG5 PE=2 SV=2

MSACGRKALTLLSSVFAVCGLGLLGIAVSTDYWLYLEEGVIVPQNQSTEIKMSLHSGLWR  
VCFLAGEERGRCFTIEYVMPMNTQLTSESTVNVLMIRSATPFPLVSLFFMFIGFILNNI  
GHIRPHRTILAFVSGIFFILSGLSLVVLVLISSINDEMLNRTKDAETYFNYKYGWSFA  
FAAISFLLTESAGVMSVYLFMKRYTAEDMYRPHPGFYRPRLSNCSDDYSGQFLHPDAWVRG  
RSPDISSEASLQMNSNYPALLKCPDYDQMSSSPC

>sp|P53701|CCHL\_HUMAN Cytochrome c-type heme lyase OS=Homo sapiens GN=HCCS PE=1 SV=1

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMKGCPVNTEPSGPTCEKKTYSVPAHQERA  
YEYVECPIRGTAAENKENLDPSNLMPPPNQTPAPDQPFALSTVREESSIPRADSEKKWVY  
PSEQMFWNAMLKKGWKWDEDISQKDMYNIIRIHNQNEQAWKEILKWEALHAAECPCGP  
SLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYVIDYYDGGEVNKDYQF  
TILDVRPALDSLAVWDRMKVAVWRWTS

>sp|Q16627|CCL14\_HUMAN C-C motif chemokine 14 OS=Homo sapiens GN=CCL14 PE=1 SV=1

MKISVAAIPFFLLITIALGKTTESSSRGPYHPSECCFTYTTYKIPRQRIMDYETNSQCS  
KPGIVFITKRGHSVCTNPSPDKWVQDYIKDMKEN

>sp|P55774|CCL18\_HUMAN C-C motif chemokine 18 OS=Homo sapiens GN=CCL18 PE=1 SV=1

MKGLAAALLVLVCTMALCSCAQVGTNKLCLLVYTSWQIPQKFIVDYSETSPQCPKPGVI  
LLTKRGRQICADPNKKWVQKYISDLKLN

>sp|Q9Y258|CCL26\_HUMAN C-C motif chemokine 26 OS=Homo sapiens GN=CCL26 PE=1 SV=1

MMGLSLASAVLLASLLSLHLGTATRGSDISKCCFQYSHKPLPWTWVRSYEFTSNSCSQR  
AVIFTTKRGKKVCTHPRKKWVQKYISLLKTPKQL

>sp|Q9NUG4|CCM2L\_HUMAN Cerebral cavernous malformations 2 protein-like OS=Homo sapiens  
GN=CCM2L PE=2 SV=3

MEYEVKKGKGFVSPIRRLVFPKAGRRAACRSSVSRRPLHSMPLYPPDYILDPQILLCDY  
LEKEVKFLGHLTWVTSSLNPSSRDELLQLLDTARQLKELPLKTTAEQDSILSLSARCLLL  
TWRDNEELILRIPTHEIAAASYLQDDALHLLVLKTGLGVDVPVPAGVDASPGGAGRDPGPP  
GGAPEKRRVGTAEERRHTICSLDWRMGWGGGAAEARAGGGGGSLERQAGARASGSWERR  
QTFSGSWERRHGGGGGGGAGKPGGSWERRQAGSGGGGSWERRHPGNPLDPQDPSPDAY  
CNLVILAVANRDAAEESCALICQVFQIIYGDQSIQCVDRAGYHYTSTPERPWLCRSRSESC  
HTDGTAYADADFCCSSFNGSQDTFEACYSGTSTPSFHGSHCSGSDHSSLGLEQLQDYMV  
TLRSKLGPLEIQFAMLLREYRLGLPIQDYCTGLLKLYGDRRKFLLGMRPFIPDQDIGY  
FEGFLEGVGIREGGILTDSFGRIKRSMSSTSASAVRSYDGAAQRPEAQAFHRLADITHD  
IEALAPDDDDDEDEPRGSRGSDAAEDNYL

>sp|075909|CCNK\_HUMAN Cyclin-K OS=Homo sapiens GN=CCNK PE=1 SV=2

MKENKENSSPSVTSANLDHTKPCWYWDKKDLAHTPSQLEGLDPATEARYRREGARFIFDV  
GTRLGLHYDTLATGIIYFHRFYMFSFKQFPYVTGACCLFLAGKVEETPKKCKDIKTA  
RSLNDVQFGQFGDDPKEEVMVLERILLQTIKFDLQVEHPYQFLLKYAKQLKGDKNKIQK  
LVQMAWTFVNDLSCTLSLQWEPEIIAVAVMYLAGRLCKFEIQEWTSKPMYRRWWEQFVQ  
DVPVDVLEDICHQILDLYSQGKQMPHHTPHQLQQPPSLQPTQVPQVQQSQPSQSSEPS

QPQQKDPQQPAQQQQAQQPKKPSQPSSPRQVKRAVVVSPKEENKAAEPPPKIPKIET  
THPPLPPAHPPPDRKPPLAAALGEAEPPGPVDATDLPKVQIPPPAHPAPVHQPPPLPHRP  
PPPPSSSYMTG MSTTSSYMSGEGYQSLQSMKTEGPSYGALPPAYGPPAHLPHYHPHYPP  
NPPPPVPPPPASFPPAIPPTPGYPPPPPTYNPNFPPPPPRLPPTHAVPPHPPPGGLGL  
PPASYPPPAVPPGGQPPVPPPIPPPGMPPVGGGLGRAAWMR

>sp|P51684|CCR6\_HUMAN C-C chemokine receptor type 6 OS=Homo sapiens GN=CCR6 PE=1 SV=2  
MSGESMNFSDVFDSSSEDYFVSVNTSYYSVDSEMLLCSLQEVRFVPIAYSILCVFG  
LLGNILVVITFAFYKKARSMTDVYLLNMAIADILFVLTLPFWAVSHATGAWVFSNATCKL  
LKG IYAINFNCGMLLLTCISMDRYIAIVQATKSFRLRSRTLPRSKIICLVVWGLSVIIS  
STFVFNQKYNTQGS D VCEPKYQTVSEPIRWKLLMLGLELLFGFFIPLMF MIFCYTFIVKT  
LVQAQNSKRHKAIRV I IAVVLVFLACQIPHNMVLLVTAANLGKMNRSQCSEKLIGYTKTV  
TEVLAFLHCCLN P VLYAFIGQKFRNYFLKILKDLWCVRRKYKSSGFSCAGRYSENISRQT  
SETADNDNASSFTM

>sp|P51685|CCR8\_HUMAN C-C chemokine receptor type 8 OS=Homo sapiens GN=CCR8 PE=1 SV=1  
MDYTLDL SVTTVTDYYPDI FSSPCDAELIQNGKLLAVFYCLLFVFSLLGNSLVILVL  
VVCKKLRSITDVYLLNLALSDLLFVFSFPFQTYLLDQWVFGTMCKVVSGFYIIGFYSS  
MFFITLMSVD RYLA VHAVYALKVRTIRMGTTLC LAVWLTAIMATIPLL VFYQVASEDGV  
LQCYSFYNQQT LKWKIFTNFKMNILGLLIPFTIFMFCYIKILHQLKRCQNHNTKAIRLV  
LIVVIASLLFWVPFNVLFLTSLHSMHILDGCSISQQLTYATHVTEIISFTHCCVNPVIY  
AFVGEKFKKHLSEIFQKSCSQIFNYLGRQMPRESCEKSSSCQQHSSRSSV DYIL

>sp|000421|CCRL2\_HUMAN C-C chemokine receptor-like 2 OS=Homo sapiens GN=CCRL2 PE=1 SV=2  
MANYTLAPEDEYDV LIEGELESDEAEQCDKYDAQALSAQLVPSLCSAVFVIGVLDNLLVV  
LILVKYKGLKRVENIYLLNLAVSNLCFLLTLPFWAHAGGDP MCKILIGLYFVGLYSETFF  
NCLLTVQRYLVFLHKGNFFSARRRVPCGIITSVLAWVTAILATLPEFVVYKPMEDQKYK  
CAF S R T P F L P A D E T F W K H F L T L K M N I S V L V L P L F I F T F L Y V Q M R K T L R F R E Q R Y S L F K L V  
FAIMVVFLLMWAPYNI AF FLSTFKEHFS L DCKSSYNLDKSVHITKLIATTHCCINPLLY  
AFLDGTF SKYLCRCFHLRSNTPLQPRGQSAQGTSREEPDHSTEV

>sp|POC7X3|CCYL3\_HUMAN Putative cyclin-Y-like protein 3 OS=Homo sapiens GN=CCYL3 PE=3  
SV=1  
MACAVFQIPPWHLDRKYGSCSTILLDNSTASQPDLRHTLERYANRSLAIFEEPVHPLPQE  
KLPGKSFKHDPKRNCIFRHCTLFQVIKLTAPCAIVALVYIKRLTSANIDLCP TNWKKI  
VLGTMLLASKVVRN HGLWSVDDSQNSKDTAVENMSKMEKCFLELLEFNIHVSASVYAKYY  
FDLCALANDHDLYFLFSFLHKDKAQKLEGHTSQHSLSLGPCRVMENYATYSPLSSQPVL  
GALSLAEVLPQEIKQEIHQV LMDHGVPCHYTCFLLHPEDSTLERFLVLHSIQGLQEDSVL  
CKVEIHGLSPQPQTYQSHFRSPSLAELLNRISGTCRNHFAGMQK

>sp|P86790|CCZ1B\_HUMAN Vacuolar fusion protein CCZ1 homolog B OS=Homo sapiens GN=CCZ1B  
PE=1 SV=1  
MAAAAAGAGSGPWAAAEKQFPPALLSFFIYNPRFGPREGQEENKILFYHPNEVEKNEKIR  
NVGLCEAIVQFTRTFSPSKPAKSLHTQKNRQFFNEPEENFWMVMVRNP IIEKQSKDGKP  
VIEYQEEELLDKVYSSVLRQCYSMYKLFNGTFLKAMEDGGVKLLKERLEKFFHRYLQTLH  
LQSCDLLDIFGGISFFPLDKMTYLKIQSFINRMESLNIVKYTAFLYNDQLIWSGLEQDD  
MRILYKYLTTSLFPRHIEPELAGRDSPIRAEMPGNLQHYGRFLTGPLNLNDPAKCRFPK  
IFVNTDDTYEELHLIVYKAMSAAVCFMIDASVHPTLDFCRRLDSIVGPQLTVLASDICEQ  
FNINKRMSGSEKEPQKF IYFNH MNLAEKSTVHMRKTPSVSLTSVHPDLMKILGDINSDF

TRVDEDEEIIIVKAMSDYVWVGKKSDDRRELYVILNQKNANLIEVNEEVKKLCATQFNNIFF  
LD

>sp|Q6ZUJ4|CC062\_HUMAN Uncharacterized protein C3orf62 OS=Homo sapiens GN=C3orf62 PE=1  
SV=1

MHYIKTWSLLGEMSEKLRRRCRKELTAAIDRAFEGVSYSQECTGQQRLELSAAPLSFSLPV  
HRLLCRRHPLAACSSAAPFAAVPCAPENENPAFATNHAPVNAKPHALCPEKPLTSKENV  
LMHSSILAPERESWRTAGEGENWRKENLRKDMERDLKADSNMPLNNSQEVTKDLLDMID  
HTSIRTIEELAGKIEFENELNHMCGHCQDSPFKEEAWALLMDKSPQKATDADPGSLKQAF  
DDHNIVETVLDLEEDYNVMTSFKYQIE

>sp|A6NLC5|CC070\_HUMAN UPF0524 protein C3orf70 OS=Homo sapiens GN=C3orf70 PE=2 SV=1

MSAAASPASERGWKSEKLDEAQUALARSCAARRPDFQPCDGLSICATHSHGKCFKLHWCC  
LGWCHCKYMYQMPMPVEQLPSTEIPARPREPTNTIQISVSLTEHFLKFASVFQPLPPDS  
PRYCMISDLFIDNYQVKCINGKMCYVQKQAPHSRMSPEEVSADALISKESNTPKIDH  
CSSPSSSEDSGINAIGAHYVESCEDETEGAELSSEEDYSPESSEWPEDECTLLSPSQSDL  
EVIETIETTV

>sp|A2VCL2|CC162\_HUMAN Coiled-coil domain-containing protein 162 OS=Homo sapiens  
GN=CCDC162P PE=2 SV=3

MFKTLPEKAAFKALKRTLQLIAPLHDIVAYLVSFAGLGNCPACFEFPRSPNPLRGDWGGT  
EGIGSELQELQNMIDSLQSPQDPIRVAQALLRREVIFLQFDAAVRHLIRRTFLAAGNVP  
AYQSVTDGMCHGLPALSNLSRKSIFASQLSLPQPLDPRSLQAFELFPWRAFLEDGGPFV  
MSNSPDTLEYNMQLCLCGLSDRDRKVAHGELVGVQLLLEDVLSSYHVTMEAPQRQQATLG  
KNTQPDWSKVPGFRSQFRSSPKTSELLEGLCDVMSFALLRSFLILWKQLEVLKEHWGRL  
KLQQDINSVSLHGRFSELYETDVLPSMKAIARQMGKEDEFEGFIVNNQSVLPSPGASE  
VEIKTHQLQKLENCEIQMIQEVLRKVNREMTLVLSEKCKEECSLPTDLWKHQVMKENFS  
VSRPQIVEKFIQRLMNYQDDGVEITFRKDHLACLSSLGCDVMARECSNFETYSMCYEHV  
LHHARQLRSQKEQLDATQRGQGPPEDSAGQIAELSHDMIMEITTLRAQLTDLEEVNLL  
KKQIRKEVQEEYEALVRALFETCLHIKEKLDNQLNLIQKVCELIGEVRTEGIDNMKDLK  
KKWCSASPDEGMKENPAKEQLWALEQDNCSLANLVCKVRSGLRWRLAVQQACFQAQLSRT  
EKESIQSKKEYLRIKLMAEREVGLFRQQVLALRQALARAQADSARMWKQDSQAQLKEL  
EHRVTQEALTQQQLHFMKTSRMEKLEDDVGQKEQQQLLSKEAERASKLGQLQQKKMKRD  
LHQMSRLAQERSVKLDALQRAEELQGLHDAQRSAPVPMGSSGDLISQAQYSPTSASTSS  
RYSQQRFLKTNLKGSKI TRWIQRPQTVP IKHKKRTDDVFLPNMAENVQLTAFQVQTAPSR  
FPFRADW

>sp|A6NNP5|CC169\_HUMAN Coiled-coil domain-containing protein 169 OS=Homo sapiens  
GN=CCDC169 PE=2 SV=4

MKEERNYNFDGVSTNRLKQQLLEEVRRKDAVQLSIFELRHKITELEAKLNTDNEGSEWKT  
RYETQLELNDELEKQIVYLKEKVEKIHGNSSDRLLSIRVYERMPVESLNTLLKQLEEEK  
TLESQVKYYALKLEQESKAYQKINNERRTYLAEMSQGSGLHVSKRQQVDQLPRMQENLV  
KTGRYNPAKQKTSAKRGPVKKITRPNHLP

>sp|Q5T5S1|CC183\_HUMAN Coiled-coil domain-containing protein 183 OS=Homo sapiens  
GN=CCDC183 PE=2 SV=3

MRRHSETDVEEQTQELKTITQLQEQCRAQLIQGVKENMDQNKATLALLRSNIRRGADWA  
LAKKYDQWTISKACGNLPLRLAHRSTMEVVREKLKRYVFDVRNMHLLIHLVRRRGQK  
LESMQLELDSLRSQPDASKEELRLQIIRQLENNIEKTMIKIITSQNIHLLYLDLLDYLK

TVLAGYPIELDKLQNLVVNYCSELSDMKIMSQDAMMITDEVKRNMRQREASFIEERRARE  
NRLNQQKKLIDKIHTKETSEKYRRGQMDLDFPSNLMSTETLKLRRKETSTAEMEYQSGVT  
AVVEKVKSAVRCSHVWDITSRFLAQRNTEENLELQMEDCEEWRVQLKALVKQLELEEA  
VLFKFRQKPSSISFKSVEKKMTDMLKEEEERLQLAHSNMTKGQELLLTIQMGIDNLYVRLMGI  
NLPATQREVVLNLTDLNSKLAYCEGKLTYLADRVQMVSRTEEGDTKVRDTLESSTLMEK  
YNTRISFENREEDMIDTFQFPDMDHSYVPSRAEIKRQAQRLIEGKLKAAKKKKK

>sp|Q86UF4|CC190\_HUMAN Coiled-coil domain-containing protein 190 OS=Homo sapiens  
GN=CCDC190 PE=2 SV=2

MERHMRGQLYKHFDLERKNAQAEARLDQRLQRLKVICLYHVKLLTWEQRQLQKELQRL  
QQAETMKKKFSSYLGNGFQKRPEDVLVFSPQGRQKHRAPQAKKMRALATRMAQDTCKSKS  
QVPPSHDAGLKDPMKSKKQPLSQNNRTACFIKEQPQAQEKDSVNPSKDVPDPSKGISVPCQ  
NQEVSTNTIEQGPSSPASDSGMACADETRSKDVALKPDGNTGKQIPPKHMECAGSFEGE  
FTKPTFLELLSKARNAHYLRHRVPPESERLLSIGEIFGHGESSSSRAGKECENRVPSKFL  
PL

>sp|Q8NHW4|CC4L\_HUMAN C-C motif chemokine 4-like OS=Homo sapiens GN=CCL4L1 PE=1 SV=1

MKLCVTVLSLLVLVAAFCSLALSAPMGSDPPTACCFSYTARKLPRNFVVDYYETSSLCSQ  
PAVVFQTKRGKQVCADPSESQWQYVYDLELN

>sp|Q3MIR4|CC50B\_HUMAN Cell cycle control protein 50B OS=Homo sapiens GN=TMEM30B PE=1  
SV=1

MTWSATARGAHQPDNTAFTQQRLPAWQPLLSASIALPLFFCAGLAFIGLGLGLYSSNGI  
KELEYDYTGDPGTGNCVCAAAGQGRALPPPCSAWYFSLPELFQGPVYLYELTNFYQN  
NRRYGVSRDDAQLSGLPSALRHPVNECAPYQRSAAGLP IAPCGAIANSLFNDSFSLWHQR  
QPGGPYVEVPLDRSGIAWWTDYHVKFRNPPLVNGSLALAFQGTAPPPNWRPVYELSPDP  
NNTGFINQDFVVMRTAALPTFRKLYARIRQGNYSAGLPRGAYRVNITYNYPVRAFGGHK  
LLIFSSISWMGKNPFLGIAYLVVGLCILTGFMVLVYIRYQDQDDDDDEE

>sp|Q96AQ1|CC74A\_HUMAN Coiled-coil domain-containing protein 74A OS=Homo sapiens  
GN=CCDC74A PE=2 SV=1

MSGAGVAAGRPPSSPTPGSRRRRQRPVSGVQSLRPQSPQLRQSDPQKRNLDEKSLQFL  
QQQHSEMLAKLHEEIEHLKRENKDLHYKLIMNQTSQKKDGPNGHLSRASAPLGARWVCI  
NGVWVEPGGSPARLKEGSSRTHRPGGKRGRLAGGSADTVRSPADSLSMSSFQSVKSISN  
SGKARPQPGSFNKQDSKADVSQKADLEEEPLLNHNSKLDKVPGVQGARKEKAEASNAGAA  
CMGNSQHQRGMGAGAHPPMILPLPLRKPTTLRQCEVLIRELWNTNLLQTQELRHLKSL  
EGSQRPAAPPEASFPRDQEATHFPKVSTKSLSKKCLSPVAERAILPALKQTPKNNFAE  
RQKRLQAMQKRRRLHRSVL

>sp|Q15834|CC85B\_HUMAN Coiled-coil domain-containing protein 85B OS=Homo sapiens  
GN=CCDC85B PE=1 SV=2

MEAEAGGLEELTDEEMAALGKEELVRRRLRREEAARLAALVQRGRMQEVNRQLQGHGEL  
RELKQLNRRLQAENRELRLDCCFLDSERQGRRAARQWQLFGTQASRAVREDLGGCWQKL  
AELEGRQEELLRENALKEELCLALGEEWGPRGGPSGAGSGAGPAPELALPPCGPRDLGD  
GSSSTGSGSPDQLPLACSPDD

>sp|Q6UXH8|CCBE1\_HUMAN Collagen and calcium-binding EGF domain-containing protein 1  
OS=Homo sapiens GN=CCBE1 PE=1 SV=1

MVPPPPSRGGAARGQLGRSLGPLLLLLALGHTWTYREEPEDGDREICSESKIATTKYPCL  
KSSGELTTCYRKCKCKGYKFVLGQCIPEDYDVCAEAPCEQQCTDNFGRVLCCTCYPGYRYD

RERHRKREKPYCLDIDECASSNGTLCAHICINTLGSYRCECREGYIREDGKTCTRGDKY  
PNDTGHEKSENVMVAGTCCATCKEFYQMKQTVLQLKQKIALLPNNAADLGKYITGDKVLA  
SNTYLPGPPLPGGGQPPGSPGPKGSPGFPMPGPPGPGPRGSMGPMGPSPDLSTHKKQ  
RRPGVPPGAPGRDGSKGERGAPGRGSPGPPGSFDFLLMLADIRNDITELQEKVFGHR  
THSSAEFPLQEFPSYPEAMDLSGDDHPRRTETRDLRAPRDFYP

>sp|Q5VVM6|CCD30\_HUMAN Coiled-coil domain-containing protein 30 OS=Homo sapiens GN=CCDC30  
PE=2 SV=1

MSQEKNEFSEWSKEREREKQLASGLDTAEKALKVESEELQKSKSELICLYNEVHNLPG  
EESKDHFLIACDLLQRENSELETKVLKLSQEFAQLNHFTLGKKTAPSNLITSENTCKDP  
ESNEPILETEIQSRKEETEELCPKLGKQKEIPEESVKEGSFPREGQKEEGSQNRDMK  
DEEKEQQLTMKPEEIVRLREELSHINQSLLQSQSSGSDSDSGAHPSSGEKLYNQGE  
VQQLHQNHLRLQILCNSAENELRYERGQNLDLKQHNSLLQEENIKIKIELKHAQQKLLDS  
TKMCSSLTAEYKHCQKQIKIELEVLKHTQSIKSQNNLQEKLVQEKSKVADAEKILDLQ  
RKLEHAHKVCLTDTICSEKQQLLEEKIKEATQNEAKVKQYQEEQKRLLYQNVDELHRQ  
VRTLQDKENLLEMTCSQQQSRIQQQEALLKQLENEKRYDEHVKSQNELSEKLSKLQKEK  
EALREEYLRLKLLNVHVRNYNEKHHQKVKLQKVYRLTNEVELRDKRINQFEDEIGIL  
QHKIEKEKAIQDQITAQNDTLLEKRLQEQVIEQELIHSNKWTISSIQSRVLYMDKEN  
KQLQENSLRLTQQIGFLERIIRSIHRRGENLKEFPVPKWWHRGKLASLPPTKKQKEIYS  
TEVFTSNAELQHEDESVPATEKWKHSEQMETTISDILESEVVNEILPLSNSSFSKGGL  
VESFASLQETEEIKSKEAMASSKSPEKSPENLVCSQNSEAGYINVASLKETHGIEQDQK  
SEL

>sp|Q8N5R6|CCD33\_HUMAN Coiled-coil domain-containing protein 33 OS=Homo sapiens GN=CCDC33  
PE=1 SV=3

MAFRGPEPWVSASLLRQLKAEKTLDFEFVLSVGFNEAGRYALRLSAENPLQVGSAG  
VQLQVNDGDPFACSAITDVIEQQEPGQSLTLTRSKFIFTLPGFCKNDGQHDAQLHVEA  
LRLDEPLGRAAQRVGEAIFPIYRPDQPRMNPKAQDHEDLYRYCGNLALLRASTDPTARH  
CGSLAYSVAFHVHRGPQPPVSDSPPRAGQPELMSPEEPLIASQSTEPEIGHLSPSKKETI  
MVTLHGATNLPACKDGESEPWPYVVVKSTSEEKNQSSKAVTSVTSEPTRAPIWGDVTNVE  
IQAEDAGQEDVILKVVDNRKKQELLSYKIPIKYLRVFHPYHFELVKPTESGKADEATAKT  
QLYATVVRKSSFIPRYIGCNHMALEIFLRGVNEPLANNPNPIVVIARVVPNYKEFKVSQA  
NRDLASVGLPITPLSFPIPSMMNFDVPRVSQNGCPQLSKPGGPPEQPLWNQSFLFQGRDG  
ATSFSEDTALVLEYSSSTMKSQSPWTLNQPLGISVLPLKSRLYQKMLTGKGLDGLHVER  
LPIMDTSLKTINDEAPTVALSFQLLSSERPENFLTPNNSKALPTLDPKILDKKLRTIQES  
WSKDTVSSMTDLSTSTPREAEEEEPLVPEMSHDEMNNYRRAMQKMAEDILSLRRQASILE  
GENRILRSRLAQEEEEEGGKASEAQNTVSMKQKLLLSELDMMKKLRDRVQHLQNELIRKN  
DREKELLLLYQAQQPQAALLKQYQGLQKMKALEETVRHQEKVIEKMERVLEDRLQDRSK  
PPPLNRQQGKPYTGFPMLSASGLPLGSMGENLPVELYSVLLAENAKLRTELDKNRHQAP  
IILQQALPDLLSGTSDKFNLLAKLEHAQSRILSLESQLEDSARRWGREKQDLATRLQE  
EKGRHPSNSIIIEQPSALTHSMDLKQPSELEPLLSSDSKLNKPLSPQKETANSQQT

>sp|Q9Y3C0|CCD53\_HUMAN WASH complex subunit CCDC53 OS=Homo sapiens GN=CCDC53 PE=1 SV=1

MDEDGLPLMGSGIDLTKVPAIQKRTVAFLNQFVVHTVQFLNRFSTVCEEKLADLSLRIQ  
QIETTLNILDAKLSSIPGLDDVTVEVSPLNVTSTNGAHPPEATSEQPQQNSTQDSGLQES  
EVSANILTVAKDPYARYLKMVQGVPMMAIRNMISEGLDPDLLERPDPAPVDPGESEK  
TVESSDSSESSFSD



>sp|Q8IWA6|CCD60\_HUMAN Coiled-coil domain-containing protein 60 OS=Homo sapiens GN=CCDC60  
PE=1 SV=2

MTKVPATKKLQSSPNSGAVRPFYASENLRQVPDKPMKSIKYMDKEIINLKKDLIRSRFLI  
QSVKIGRGYFAILREETAKKKKQQLQKLKEEERNKFQPAEKISEIHYGDTLLSTYDDEK  
LKT LGARVTRRPFTPIHSCIIISPSLTEAHVEPLFRQLCALHWLLEALTIDHTHTMKPVI  
TCWNP KDPGGSKSTIKKINKDKSMGQKWEHFITAPKTKKFKIPTMRVTNRKPSRRGSTLS  
LSRASGGSSPQSSMISVNP GSDEPPSVNTQVTSSKDIEDNESSSTKPDEEPLYMNLQKLL  
EMVREDARRVTIENGMRKAPSILSVLKQNKSNSAYKEMQTTLKSSERSSTS SAESHIQ  
PVQKSKNRTNCDINIHYKSGVCNTMRAKFYSVAQEAGFCLQDKMEILMKRQEERGIQKF  
RAFVLVSNFQKDIAMRHHISVVKGAEEIADHWYFDLLSKLPEDLKNFRPAKKILVKLQ  
KFGENLDLRIRPHVLLKVLQDLRIWELCSPDIAVAIEFVREHIIHMPQEDYISWLQSRIN  
IPIGPYSALR

>sp|Q8NA47|CCD63\_HUMAN Coiled-coil domain-containing protein 63 OS=Homo sapiens GN=CCDC63  
PE=2 SV=1

MSVLKKNRRKDS DTPQEPSEKAKEQQAELRKL RQQFRKMVESRKSFKFRNQKKIASQY  
KEIKTLKTEQDEITLLLSLMKSSRNMRSEKNYME LRLLLQTKEDYEALIKSLKVLLAEL  
DEKILQMEKKIANQKQIFAKMQEANNPRKLQKQIHIETRLNLVTVHFDKMLTTNAKLK  
EIEDLRF EKAAYDNVYQQLQHCLLMEKKT MNLAIEQSSQAYEQRVEAMARMAAMKDRQKK  
DTSQYNLEIRELERLYAHESKLSFLLVKLNDRNEFEEQAKREEALKAKKHVKKNRGESF  
ESYEV AHLRLLKLAESGNLNLIEDFLAKEEKNFARFTYVTELNDMEMMHKRTQRIQDE  
IILLRSQQKLSHDDNHSVLRLQLEDKL RKTTEEADMYESKYGEVSKTLDLLKNSVEKLFKK  
INCDATKILVQLGETGKVTDINLPQYFAII EKKTNDLLLLETYRRILEVEGAEEIPPPF  
INPFWGGSALLKPPEPIKVIPPVLGADPFSDRLDDVEQPLDHSSLRQLVLDNYILKENRS  
KEVRGDSLPEKVDDFRSRKKVTM

>sp|A2RUB6|CCD66\_HUMAN Coiled-coil domain-containing protein 66 OS=Homo sapiens GN=CCDC66  
PE=1 SV=4

MNLGDGLKLET ELLDGKTKLILSPYEHKSKISVKMGNKAKIAKCPLRKTGHILKSTQDT  
CIGSEKLLQKKPVGSETSQAQGEKNGMTFSSTKDLCKQCIDKDLHIQKEISPATPNMQK  
TRNTVNTSLVGKQKPHKKHITAENMKSSLVCLTQDQLQILMTVNQGNRSLSLTENGKEA  
KSQYSLYLNSISNQPKDENIMGLFKKTEMVSSVPAENKSVLNEHQETSKQCEQKIAIENE  
WKPADIFSTLGERECDRSSLEAKKAQWRKELDEQVALKKKEKEVSEKWNDPWKKSESDKI  
IWEKHQILDQSRETVLLEHPFS AVKQELQRKWIEELNKQIEDDRQRKIEEKIIYSKGEEH  
DRWAMHFDLSKSYPGSQSLFSQSTHKQPEYFCVSPDTQELADVSSVCTPTTGSQVEPSE  
EEHIAKPIKDVMANSKKTNFLRSMTALLDPAQIEERDRRRQKQLEHQKAITAQVEEKRR  
KKQLEEEQRKKKEEQEELRLAQEREEMQKY EEDILKQKQKEEIMTLKTNELFQTMQRAQ  
ELAQRLKQEQRIELA QKGHDSRLIKNLGVDTIQMEYNASNISNSRHDSDEISGKMNTY  
MNSTTSKKDTGVQTD DDLNIGIFTNAESHCGSLMERDITNCSSPEISAEIIGQFSTKKNKQ  
ELTQDKGASLEKENNRCNDQC NQFTRIEKQTKHMKKYPKRPDWNINKPPKRYIPASEKYP  
KQLKQKREEKKVRRQMELLHLVEKN NPGHLSQNRGISPEIFHSSHQETESKL RWHLVKKE  
EEPLNIHSFSKERSPSSPVVKNRTQQTQNTLHLPLKNSSYERENLISGSNQTELS SGI  
SESSHFIPIVVRTNEIYYLDPDAPLSGPSTQDPQYQNSQDCGQKRQLFSDCVRDPLLNP  
MVKNRDRQQA ILKGLSELRQGLLQKQKELESSLLPLAENQEESFGSSF

>sp|Q6NSX1|CCD70\_HUMAN Coiled-coil domain-containing protein 70 OS=Homo sapiens GN=CCDC70  
PE=1 SV=1

MATPPFRLIRKMFSFKVSRWMGLACFRSLAASSPSIRQKKLMHKLQEEKAFREEMKIFRE  
KIEDFREEMWTFRGKIHAFRGQILGFWEERPFWEEEKTFWKEEKSWEMEKSFREEEKT  
FWKKYRTFWKEDKAFWKEDNALWERDRNLLQEDKALWEEKALWVEERALLEGEKALWED  
KTSLWEEENALWEEERAFWMENNGHIAEQMLEDGPHNANRGQRLLAFSRGRA

>sp|Q6ZN84|CCD81\_HUMAN Coiled-coil domain-containing protein 81 OS=Homo sapiens GN=CCDC81  
PE=2 SV=2

MLDTIARALQDLGRQVLP TPLSLSQEEVSIIWGNVSEFVRRQLTLHKGVQIPAFGTFTFI  
RQKLEVGNNKFILIQRPVFIMVEKLVQIHGLKQNKVYTPGEIPVPLNFVMISLEGPENR  
DVVEGCVKETLLFLSRSISMKQNVETFKGIGVLMIRDSKVKMRFYKDFLCTMDGSGALA  
KALANRPGTVDSVLSSREALRKWPSSVLAFPRIELKEMENKLPMETLVEECGENRERKCK  
LKDQSDKEEGTRDISSPKRLRDRQALFPAKVTNVSLEKFERSESGGKIMTPESLSYPSC  
LKHDSEMKPQTSPACQDHNKAGQEMCYVCLQRAQRNSLLYSEERRREIEDERLIQYQM  
LKDQEALFRHQMKSLATREQNQNAAYNLGVAEAI RNHNKNEKPEFYKSFLDKRPLSPAL  
NALKQEEYSRSLKQMDNRQENEIKQRQYRELMRLEQVQLTEELAAQRAKFLDKMEET  
QCYKRALDAQIKNKPSRLPPFEPDSSEPIFGKNEGELMVEKQKREQNYMKHLEAAANHK  
RKAILHQLVDQRRDLQMLQRTQREHLADRTAELERNVRVNQCLQEDWERSAAMKKQRDLE  
DKAFERASDKLFLLDQCEKYRRCKQCQRRTSNVGESNLWPLNKFLPGSRLLV

>sp|Q9Y3X0|CCDC9\_HUMAN Coiled-coil domain-containing protein 9 OS=Homo sapiens GN=CCDC9  
PE=1 SV=1

MAATLDLKSKEEKDAELDKRIEALRRKNEALIRRYQEI EEDRKKAELEGVAVTAPRKGRS  
VEKENVAVESEKNLGPSRRSPGTPRPPGASKGGRTPPQQGGRAGMRASRSWEGSPGEQP  
RGGGAGGRGRGRGRGSPHLSGAGDTSISDRKSKWEERRRQNI EKMNEEMEKIAEYERN  
QREGVLEPNPVRNFLDDPRRRSGPLEESERDRREESRRHGRNWGGPDFERVRCGLEHERQ  
GRRAGLSAGDMLSMTGRERSEYLRWKQEREKIDQERLQRHRKPTGQWRREWDAEKT DG  
MFKDGPVPAHEPSHRYDDQAWARPPKPPTFGEFLSQHKA EASSRRRRKSSRPQAKAAPRA  
YSDHDDR WETKEGAASPAPETPQPTSPETSPKETPMQPPEIPAPAH RPPPEDEGEENE GEE  
DEEWEDISEDEEEEEIEVEEGDEEEPAQDHQAPEAAPTGIPCSEQA HGVPFSPPEEPLLEP  
QAPGTPSSPFPSPSGHQPVSDWGEEVELNSPRTT HLAGALSPGEAWPFESV

>sp|I3L3R5|CCER2\_HUMAN Coiled-coil domain-containing glutamate-rich protein 2 OS=Homo  
sapiens GN=CCER2 PE=3 SV=1

MPPRGPASELLLLRLLLGAATAAPLAPRPSKEELTRCLA EVVTEVLTVGQVQRGPCTAL  
LHKELCGTEPHGCASTEEKGLLLGDFKKQEAGKMRSSQEV RDEEEEEEVAERTHKSEVQEQ  
AIRMQGHRQLHQEEDEEEEKEERKRGPMETFEDLWQRHLENGGDLQKRVAEKASDKETAQ  
FQAEEKGVRVLGGDRSLWQGAERGGGERREDLPHHHHHHHQPEAEP RQEKEEASEREEKE  
VEQLEHLRDELKKVTETLGEQLRREG

>sp|P20248|CCNA2\_HUMAN Cyclin-A2 OS=Homo sapiens GN=CCNA2 PE=1 SV=2

MLGNSAPGPATREAGSALLALQQTALQEDQENINPEKAAPVQQPRTAALAVLKS GNPGRG  
LAQQQRPKTRRVAPLKDLPVND EHVTVPPWKANSKQPAFTIHVDEAEKEAQK KPAESQKI  
EREDALAFNSAISLPGRKPLVPLDYPMDGSFESPHTMDMSI ILEDEKPVSVNEVPDYHE  
DIHTYLREMEVKCKPKVGYMKKQPDITNSMRAILVDWLVEVGEEYKLQNETLHLAVNYID  
RFLSSMSVLRGKLQLVGTAAMLLASKFEEIYPPEVAEFVYITDDTYTKKQVLRMEHLVLK  
VLTFDLAAPT VNQFLTQYFLHQQPANCKVESLAMFLGELSLIDADPYLKYLPSVIAGAAF  
HLALYTVTGQSWPESLIRKTGYTLES LKPCMLDLHQTYLKAPQHAQQSIREKYKNSKYHG  
VSLLNPPETLNL

>sp|P51946|CCNH\_HUMAN Cyclin-H OS=Homo sapiens GN=CCNH PE=1 SV=1  
MYHNSSQKRHWTFSSSEEQLARLRADANRKFRC KAVANGKVL PNDPVFLEPHEE MTLCKYY  
EKRLLEFCSVFKPAMPRSVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLACKVDEFNV  
SSPQFVGNLRESPLGQEKALEQILEYELL LIQQLNFHLIVHNPYRPFEGFLIDLKTRYPI  
LENPEILRKTADDFLNRIALTDAYLLYTPSQIALTAILSSASRAGITMESYLS E S L M L K E  
NRTCLSQLLDIMKSMRNLVKKYEPPRSEEVAVLKQKLERCHSAELALNVITKKRKG Y E D D  
DYVSKKSKHEEEWTDDDLVESL

>sp|Q17RF5|CD026\_HUMAN Uncharacterized protein C4orf26 OS=Homo sapiens GN=C4orf26 PE=1  
SV=1  
MARRHCFSYWLLVCWL VVTVAEGQEEVF TPPGDSQNNADATDCQIFTLTPPPAPRSPVTR  
AQPITKTPRCPFHFFPRRPRIHFRFPNRPFPVPSRCNHRFPFQPFYWP HRYLTYRYFP RRR  
LQRGSSSEES

>sp|Q8N1A6|CD033\_HUMAN UPF0462 protein C4orf33 OS=Homo sapiens GN=C4orf33 PE=1 SV=2  
MDFKIEHTWDGFPVKHEPVFIRLNP GDRGVMMDISAPFFRDPPAPLGEPGKPFNELWDYE  
VVEAFFLNDITEQYLEVELCPHGQHLVLLSGRRNVWKQELPLSFRMSRGETKWE GKAYL  
PWSYFPPNVTKFNSFAIHGSKDKRSYEALYPVPQHELQQGQKPDFHCLEYFKSFNFNTLL  
GEEWKQPESDLW LIEKCDI

>sp|Q5BLP8|CD048\_HUMAN Neuropeptide-like protein C4orf48 OS=Homo sapiens GN=C4orf48 PE=1  
SV=3  
MAPPPACRSPMSPPPP LLLLLSLALLGARARAEPAGSAVPAQSRPCVDCHAFEFMQRA  
LQDLRKTACSLDARTETLL LQAERRALCACWPAGH

>sp|C9J302|CD051\_HUMAN Uncharacterized protein C4orf51 OS=Homo sapiens GN=C4orf51 PE=4  
SV=1  
MSHYFYLTQILLPFSPLTSQEFDLIRRKAGASWQDETRWSDSSVTTYTG SYRKKQLDKS  
MCSQFSFRAGQHEPECKQMSLTNSSACHLLCWAGTQETTDIKGLFPDITRPFKKSFDVKH  
GVAHQIWDFGDCFTPPNYGKYCVRPKKPAQEALINYSRRGKGV LKHLHGRCDSSESKVCS  
SEDSEADRYSDYGGGPSSPFN

>sp|Q9UQ88|CD11A\_HUMAN Cyclin-dependent kinase 11A OS=Homo sapiens GN=CDK11A PE=1 SV=4  
MGDEKDSWKVKTLDEILQEKKRRKEQEEKAEIKRLKNSDDRDSKRDSLEEGELRDH CMEI  
TIRNSPYRREDSMEDRGEEDSLAIKPPQQMSRKEKVHHRKDEKRKEKWKHARVKEREHE  
RRKRHREEQDKARREWERQKRREMARHSRRERDRLEQLERKRERERKMREQQKEQREQK  
ERERRAEERRKEREAREVSAHRTMREDYSDKVKASHWSRSPRP RP RERFELGDGRKPG  
EARPAPAKPAQLKEEKMEERDLLSDLQDISDSEKTS SAESSSAESGSGSEEEEEEEEE  
EEEEGSTSEEEEEEEEEEEEEETGSNSEEASEQSAEEVSEEEMSEDEERENENHLLVV  
PESRFRDRSGESEEAE E EVGEGTPQSSALTEGDYVPDSPALLPIELKQELPKYLPALQGC  
RSVEEFQCLNRIEEGTYGVVYRAKD KKTDEIVALKRLKMEKEKEGFPITSLREINTILKA  
QHPNIVTVREIVVGSNMDKIYIVMNYVEHDLKSLMETMKQPFLPGEVKTLMIQLLRGVKH  
LHDNWILHRDLKTSNLLSHAGILKVGDFGLAREYGSPLKAYTPVVVTQWYRAPELLGA  
KEYSTAVDMWSVGCIFGELLTQKPLFPGNSEIDQINKVFKELGTPSEKIWPGYSELPVVK  
KMTFSEHPYNNLRKRFGALLSDQGFDLMNKFLTYPGRRISAEDGLKHEYFRETPLPIDP  
SMFPTWPAKSEQQRVKRGTSRPPEGGGLGYSQLGDDDLKETGFHLTTTNQGASAAGPGFS  
LKF

>sp|Q6YHK3|CD109\_HUMAN CD109 antigen OS=Homo sapiens GN=CD109 PE=1 SV=2  
MQGPPLLTAAHLLCVCTAALAVAPGPRFLVTAPGIIRPGGNVTIGVELLEHCPSQVTVKA

ELLKTASNLTVSVLEAEGVFEKGSFKTLTLPSPPLNSADEIYELRVGTGRQDEILFSNST  
RLSFETKRISVFIQTDKALYKPKQEVKFRIVTLFSDFKPYKTSNLILIKDPKSNLIQQWL  
SQQSDLGVISKTFQLSSHPILGDWSIQVQVNDQTYQSFQVSEYVLPKFVTLQTPLYCS  
MNSKHLNGTITAKYTYGKPVKGDVTLTFLPLSFWGKKKNITKTFKINGSANFSFNDEEMK  
NVMDSSNGLSEYLDLSSPGPVEILTTVTESVTGISRVSTNVFFKQHDYIIIEFFDYTTVL  
KPSLNFTATVKVTRADGNQLTLEERRNNVITVTQRNYTEYWSGSNSGNQKMEAVQKINY  
TVPQSGTFKIEFPILEDSSSELQLKAYFLGSKSSMAVHSLFKSPSKTYIQLKTRDENIKVG  
SPFELVVGSKRLKELSYMVVSRLQLVAVGKQNSTMFSLTPENSWTPKACVIVYYIEDDG  
EIIISDVLKIPVQLVFNKIKLYWSKVKAEPSEKVSRLISVTQPDIVGIVAVDKSVNLMN  
ASNDITMENNVHELELYNTGYLGMFMSFAVFQECGLWVLTANLTKDYIDGVYDNAEY  
AERFMEENEGHIVDIHDFSLGSSPHVRKHPETWIWLDTNMGYRIYQEFVTVPDSITSW  
VATGFVISEDGLGLTTTPVELQAFQPFIFLNLPSVIRGEFALEITIFNYLKDATEV  
KVIIEKSDKFDILMTSNEINATGHQQTLLVPSEDGATVLFPIRPTHLEIPITVTALSPT  
ASDAVTQMILVKAEGIEKSYSQSILLDLTDNRLQSTLKTLSFSFPNTVTGSESVQITAI  
GDVLGPSINGLASLIRMPYGCQGNMNFAPNIYILDYLTKKKQLTDNLKEKALSFMRQG  
YQRELLYQREDGSFSAFGNYDPGSGTWLSAFVLRFCLEADPYIDIDQNVLHRTYTWLKGH  
QKSNGEFWDPRVIRHSELQGGNKSPVTLTAYIVTSLLGYRKYQPNIDVQESIHFLESEFS  
RGISDNYTLALITYALSSVGSPPKAKEALNMLTWRAEQEGGMQFWVSSESLSDSWQPRSL  
DIEVAAYALLSHFLQFQTSEGIPIMRWLSRQRNSLGGFASTQDTTVALKALSEFAALMNT  
ERTNIQVTVTGPSSPSPVKFLIDTHNRLLLQTAEALVAVQPTAVNISANGFGFAICQLNVV  
YNVKASGSSRRRRSIQNEAFDLDAVKENKDDLNVCTSFSGPGRSGMALMEVNL  
LSGFMVPSEAIISLSETVKKVEYDHGKLNLYLDSVNETQFCVNIPAVRNFKVSNTQDASVS  
IVDYIEPRRQAVRSYNSEVKLSLSDCLSDVQGCRCPCEDGASGSHHSSVIFIFCFKLLYF  
MELWL

>sp|P48509|CD151\_HUMAN CD151 antigen OS=Homo sapiens GN=CD151 PE=1 SV=3  
MGEFNEKKTTCGTCLKYLLFTYNCCFWLAGLAVMAVGIIWTLALKSDYISLLASGYLAT  
AYILVVAGTVVMVTGVLGCCATFKERRNLLRLYFILLIIIFLLEIIAGILAYAYYQQLNT  
ELKENLKDTMTKRYHPGHEAVTSAVDQLQQEFHCCGSNNSQDWRDSEWIRSQEAGGRVV  
PDSCCKTVVALCGQRDHASNIYKVEGGCITKLETFIQEHLRVIGAVGIGIACVQVFGMIF  
TCCLYRSLKLEHY

>sp|Q8N6Q3|CD177\_HUMAN CD177 antigen OS=Homo sapiens GN=CD177 PE=1 SV=2  
MSAVLLALLGFIPLPGVQALLCQFGTVQHVWVSDLPQWTPKNTSCDSGLGCQDTLM  
LIESGPQVSLVLSKGCTEAKDQEPVTEHRMGPLSLISYTFVCRQEDFCNNLVNSLPLW  
APQPPADPGSLRCPVCLSMEGCLEGTTEEICPKGTTTHCYDGLRLRGGGIFSRLRVQGCM  
PQPGCNLLNGTQEI GPVGMTENCNRKDFLTCHRGTTIMTHGNLAQEPTDWTSTNTEMCEV  
GQVCQETLLLLDVGLTSTLVGTKGCSTVGAQNSQKTTIHSAPPGVLVASYTHFCSSDLN  
SASSSSVLLNSLPPQAAPVPGDRQCPTCVPLGTCSSGSPRMTCPRGATHCYDGYIHLG  
GGLSTKMSIQGCVAQPSSFLNHRQIGIFSAREKRDVQPPASQHEGGGAEGLESITWGV  
GLALAPALWWGVCPSC

>sp|Q99467|CD180\_HUMAN CD180 antigen OS=Homo sapiens GN=CD180 PE=1 SV=2  
MAFDVSCFFWVLFSAAGCKVITSWDQMCIEKEANKTYNCENLGLSEIPDTLPNTTEFLEF  
SFNFLPTIHNRTFSRLMNLTFDLTRCQINWIHEDTFQSHHQLSTLVLGTNPLIFMAETS  
LNGPKSLKHLFIQTGISNLEFIPVHNLENLESYLGSNHISIKFPKDFPARNLKVLD  
QNNAIHYISREDMRSLEQAINLSLNFNGNNVKGIELGAFDSTIFQSLNFGGTPNLSVIFN

GLQNSTTQSLWLGT FEDIDDEDISSAMLKGLCEMSVESLNLQEHFSDISSTTFQCFTQL  
QELDLTATHLKG LPSGMKGLNLLKKLVSVNHFDQLCQISAANFPSLTHLYIRGNVKKLH  
LGVGCLEKLG NLQTLDSLNDIEASDCCSLQLKNLSHLQTLNLSHNEPLGLQSQAFKECP  
QLELLDLAFTRLHINAPQSPFQNLHFLQVLNLTYCFLDTSNQHLLAGLPVLRHLNLKGNH  
FQDGTITKTNLLQTVGSLEVLILSSCGLLSIDQQAFHSLGKMSHVDLSHNSLTCDSIDSL  
SHLKG IYLNLAANSINIISPRLPILSQQSTINLSHNPLDCTCSNIHFLTWYKENLHKLE  
GSEETTCANPPSLRGVKLSVKLSGITAIGIFFLIVFLLLLAILLFFAVKYLLRWKYQH  
I

>sp|P29016|CD1B\_HUMAN T-cell surface glycoprotein CD1b OS=Homo sapiens GN=CD1B PE=1 SV=1

MLLLPFQLLAVLFPGGNSEHAFQGPTSFHVIQTSSFTNSTWAQTQSGWLDDLQIHGWS  
DSGTAIFLKPWSKGNFSDKEVAEL EEIFRVYIFGFAREVQDFAGDFQMKYPFEIQGIAGC  
ELHSGGAIVSFLRGALGGLDFLSVKNASCVPSPEGGSRAQKFCALIIQYQGIMETVRILL  
YETCPRYLLGVLNAGKADLQRQVKPEAWLSSGSPGPGRLQLVCHVSGFYKPKPVVWMMR  
GEQEQGTQLGDILPNANWTWYLRATLDVADGEAAGLSCRVKHSSLEGQDIILYWRNPTS  
IGSIVLAIIVPSLLLLLCLALWYMRRSYQNIP

>sp|P15813|CD1D\_HUMAN Antigen-presenting glycoprotein CD1d OS=Homo sapiens GN=CD1D PE=1 SV=1

MGCLLFLLLWALLQAWGSAEVPQRLFPLRCLQISSFANSSWTRTDGLAWLGELQTHSWN  
DSDTVRSLKPWSQGTFSQQWETLQHIFRVYRSSFTRDVKEFAKMLRLSYPLELQVSAGC  
EVHPGNASNNFFHVAFAQGKDILSFQGTSWEPTEAPLWVNLAIQVLNQDKWTRETQWLL  
NGTCPQFVSGLLESGKSELKKQVKPKAWLSRGPSPGPGRLLLVCHVSGFYKPKPVVWMMR  
GEQEQGTQPGDILPNADETWYLRATLDVVAGEAAGLSCRVKHSSLEGQDIVLYWGGSYT  
SMGLIALAVLACLLFLLIVGFTSRFKRQTSYQGV

>sp|Q9NNX6|CD209\_HUMAN CD209 antigen OS=Homo sapiens GN=CD209 PE=1 SV=1

MSDSKEPRLQQLGLEEEQLRGLGFRQTRGYKSLAGCLGHGPLVLQLLSFTLLAGLLVQV  
SKVPSSISQEQSRQDAIYQNLTLKAAVGELSEKSKLQEIYQELTLKAAVGELPEKSKL  
QEIYQELTRLKAAVGELPEKSKLQEIYQELTWLKAAVGELPEKSKMQEIYQELTRLKAAV  
GELPEKSKQEIYQELTRLKAAVGELPEKSKQEIYQELTRLKAAVGELPEKSKQEIYQ  
ELTLKAAVERLCHPCPWEWTFQGNCFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQ  
NFLQLQSSRSNRFTWMGLSDLNQEGTWQWVDGSPLLP SFKQYWNRGEPNNVGEEDCAEFS  
GNGWNDDKCNLAKFWICKKSAASCSRDEEQFLSPATPNPPPA

>sp|Q9Y5K6|CD2AP\_HUMAN CD2-associated protein OS=Homo sapiens GN=CD2AP PE=1 SV=1

MVDYIVEYDYDAVHDEL TIRVGEIIRNVKKLQEEGWLEGELNGRRGMFPDNFVKEIKRE  
TEFKDDSLPIKRERHGNVASLVQRISTYGLPAGGIQPHPQTKNIKKKTKKRQCKVLF EYI  
PQNEDELELKVGDIIDINEEVEEGWWSGTLNKLGLFPSNFVKELEVTDGETHEAQDDS  
ETVLAGPTSPIPSLGNVSETASGSVTQPKKIRGIGFGDIFKEGSVKLRTRTSSSETEEEK  
PEKPLILQSLGPKTQSV EITKTDTEGKIKAKEYCRTL FAYEGTNEDELTFKEGEI IHLIS  
KETGEAGWWRGELNGKEGVFPDNFAVQINELDKDFPKPKPPPPAKAPAPKPELIAAEKK  
YFSLKPEEKDEKSTLEQKPSKPAAPQVPPKKPTPTKASNLLRSSGTVPKRPEKPVPPP  
PPIAKINGEVSSISSKFETEPVSKLKDSEQLPLRPKSVDFDSLTVRTSKETDVVNFD DI  
ASSENLLHLTANRPKMPGRRLPGRFNGGHSPTH SPEKILKLPKEEDSANLKPSELKKDTC  
YSPKPSVYLSTPSSASKANTTAFLTPLEIKAKVETDDVKKNSLDELAQI IELLCIVEAL  
KKDHGKELEKLRKDLEEEKTMRNLEMEIEKLLKAVLSS

>sp|P28907|CD38\_HUMAN ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 OS=Homo sapiens  
GN=CD38 PE=1 SV=2

MANCEFSPVSGDKPCCRLSRRALCLGVSIILVVLAVVVRWRQQWSGPGTTKRFP  
ETVLARCVKYTEIHPEMRHVDCQSVWDAFKGAFISKHPCNITEEDYQPLMKLGTQTVPCN  
KILLWSRIKDLAQFTQVQRDMFTLEDTLGLYADDLTWCGEFNTSKINYQSCPDWRKDC  
SNNPVSFVFWKTVSRRFAEAACDVVHMLNGSRSKIFDKNSTFGSVEVHNLQPEKVQTLEA  
WVIHGGREDSRDLCQDPTIKELESIIKRNIFQSKNIYRPDKFLQCVKNPEDSSCTSEI

>sp|P04234|CD3D\_HUMAN T-cell surface glycoprotein CD3 delta chain OS=Homo sapiens GN=CD3D  
PE=1 SV=1

MEHSTFLSGLVLATLLSQVSPFKIPIEELEDVRFVNCNTSITWVEGTGTLLSDITRLDL  
GKRILDPRIYRCNGTDIYKDESTVQVHYRMCQSCVELDPATVAGIIVTDVIATLLLAL  
GVFCFAGHETGRLSGAADTQALLRNDQVYQPLRDRDDAQYSHLGGNWARNK

>sp|P09693|CD3G\_HUMAN T-cell surface glycoprotein CD3 gamma chain OS=Homo sapiens GN=CD3G  
PE=1 SV=1

MEQKGKGLAVLILAILLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDGK  
MIGFLTEDKKKWNLGSNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCIELNAATISGFLF  
AEIVSIFVLAVGVYFIAGQDGVQRASDKQTLLPNDQLYQPLKDREDDQYSHLQGNQLR  
RN

>sp|P20963|CD3Z\_HUMAN T-cell surface glycoprotein CD3 zeta chain OS=Homo sapiens GN=CD247  
PE=1 SV=2

MKWKALFTAAILQAQLPITEAQSFGLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSAD  
APAYQQGQNQLYNELNLGRREEYDVLDKRRGRDPEMGGKPQRRKNPQEGLYNELQKDKMA  
EAYSEIGMKGERRRGKGGHDGLYQGLSTATKDTYDALHMQALPPR

>sp|P09326|CD48\_HUMAN CD48 antigen OS=Homo sapiens GN=CD48 PE=1 SV=2

MCSRGWDSCLALELLLLPLSLLVTSIQGHLVHMTVVSGSNVTLNISESLPENYKQLTWFY  
TFDQKIVEWDSRKSIFYESKFGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQE  
WKIKLQVLDPVPKPKVIEKIEDMDNCYLKLSCVIPGESVNYTWYGDKRFPKELQNSV  
LETTLMPHNYSRCYTCQVSNVSSSKNGTVCLSPCTLARSFGVEWIASWLVVTVPTILGL  
LLT

>sp|P01730|CD4\_HUMAN T-cell surface glycoprotein CD4 OS=Homo sapiens GN=CD4 PE=1 SV=1

MNRGVPRHLLLVLQALLPAATQGKKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIK  
ILGNQGSFLTGPSKLNDRADSRSLWDQGNFPLIIKNLKIEDSDTYICEVEDQKEEVQL  
LVFGLTANS DTHLLQGQSLTLTLESPPGSSPSVQCRSPRGKNIQGGKTL SVSQLELQDSG  
TWTCTVLQNKQKVEFKIDIVLAFQKASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWW  
QAERASSSKSWITFDLKNKEVSVKRVTDPKLQMGKKLPLHLTPQALPQYAGSGNLT  
LEAKTGKLHQEVNLVVMRATQLQKNLTCEVWGPTSPKMLSLKLENKEAKVSKREKAVVW  
LNPEAGMWQCLSDSGQVLLESNIKVLPTWSTPVPQPMALIVLGGVAGLLLFIGLGIFFCV  
RCRHRRRQAERMSQIKRLLSEKKTCCPHRFQKTCSPI

>sp|Q13319|CD5R2\_HUMAN Cyclin-dependent kinase 5 activator 2 OS=Homo sapiens GN=CDK5R2  
PE=1 SV=1

MGTVLSLSPASSAKGRRPGGLPEEKKKAPPAGDEALGGYGAPPVGGKGGESRLKRPSVL  
ISALTWKRLVAASAKKKKGSKKVTTPKASTGPDPLVQQRNRENLLRKGRDPPDGGGTAKP  
LAVPVPTVPAATAACEPPSGGSAAQPPGSGGGKPPPPPPAPQVAPPVPGGSPRRVIVQ  
ASTGELLRCLGDFVCRRCYRLKELSPGELVGWFRGVDRSLLLQGWQDQAFITPANLVFVY

LLCRESLRGDELASAAELQAAFLTCLYLAYSIMGNEISYPLKPFLVEPDKERFWQRCLRL  
IQLSPQMLRLNADPHFFTQVFQDLKNEGEAAAASGGPPSGGAPAASSAARDSCAAGTKH  
WTMNLDR

>sp|P32970|CD70\_HUMAN CD70 antigen OS=Homo sapiens GN=CD70 PE=1 SV=2

MPEEGSGCSVRRRPYGCVLRAALVPLVAGLVICLVVCIQRFAQAQQQLPLESLGWDVAEL  
QLNHTGPQQDPRLYWQGGPALGRSFLHGPPELDKGQLRIHRDGIYMVHIQVTLAICSSTA  
SRHHTTLAVGICSPASRSISLLRSLFHQGCTIASQRLTPLARGDTLCTNLTGTLLPSRN  
TDETFFGVQWVRP

>sp|P33681|CD80\_HUMAN T-lymphocyte activation antigen CD80 OS=Homo sapiens GN=CD80 PE=1  
SV=1

MGHTRRQGTSPSKCPYLNFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELA  
QTRIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESCVVLK  
YEKDAFKREHLAEVTLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGE  
ELNAINTTVSQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHLRVNQTFNWNTTKQEHFP  
DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV

>sp|P60033|CD81\_HUMAN CD81 antigen OS=Homo sapiens GN=CD81 PE=1 SV=1

MGVEGCTCKIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTNNLYLELGDKPAPNTFYV  
GIYILIAVGAVMMFVGLGCGYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIA  
KDVKQFYDQALQQAVVDDDANNAKAVVKTFFHETLDCCGSSTLTALTTSVLKNNLCPSGSN  
IISNLFKEDCHQKIDDLFSGKLYLIGIAAIVVAVIMIFEMILSMVLCCGIRNSSVY

>sp|P10966|CD8B\_HUMAN T-cell surface glycoprotein CD8 beta chain OS=Homo sapiens GN=CD8B  
PE=2 SV=1

MRPRLWLLAAQLTVLHGNSVLQQTTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQRQA  
PSSDSHHEFLALWDSAKGTIHGEEVEQEKIAVFRDASRFILNLTSVKPEDSGIYFCMIVG  
SPELTFGKGTQLSVVDLPTTAQPTKKSTLKKRVCRLRPETQKGPLCSPITLGLLVAGV  
LVLLVSLGVAIHLCCRERRRARLRFMKQFYK

>sp|P48960|CD97\_HUMAN CD97 antigen OS=Homo sapiens GN=CD97 PE=1 SV=4

MGGRVFLAFCVWLTLPGAETQDSRGCARWCPQNSSCVNATACRCNPGFSSFSEIITPTE  
TCDDINECATPSKVS CGKFSDCWNTEGSYDCVCSPGYEPVSGAKTFKNESENTCQDVDEC  
QQNPRLCKSYGTCVNTLGSYTCQCLPGFKFIPEDPKVCTDVNCTSGQNPCHSSTHCLNN  
VGSYQCRCRPGWQPIPGSPNGPNNTVCEDVDECSSGQHQCDSSTVCFNTVGSYSCRCRPG  
WKPRHGIPNNQKDTVCEDMTFSTWTPPPGVHSQTLRFFDKVQDLGRDSKTSSAEVTIQN  
VIKLVDELMEAPGDVEALAPPVRHLIATQLLSNLEDIMRILAKSLPKGPFTYISPSNTEL  
TLMIQERGDKNVTMGQSSARMKLNWAVAAGAEDPGPAVAGILSIQNM TLLANASLNLHS  
KKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNSPILFAFSHLESSDGEAGRDP  
PAKDVMPGPRQELLCAFWKSDSDRGHWATEGCQVLGSKNGSTTCQCSHLSSFAILMAHY  
DVEDWKLTLITRVGLALSFLCLLCLILTFLLRPIQGSRTTIHLHLCICLFVGSTIFLAG  
IENEGGQVGLRCRLVAGLLHYCFLA AFCWMSLEGLELYFLVVRVFQGGQLSTRWLCLIGY  
GVPLLIVGVSAAIYSKGYGRPRYCWLDFEQGFLWSFLGPVTFIILCNAVIFVTTVWKLQ  
KFSEINPDMKKLKKARALTITAIQFLLGCTWVFGFLIFDDRSLVLTIVFTIILNCLQGA  
FLYLLHCLLNKKVREEYRKWACL VAGGSKYSEFTSTTSGTGHNQTRALRASESGI

>sp|Q13042|CDC16\_HUMAN Cell division cycle protein 16 homolog OS=Homo sapiens GN=CDC16  
PE=1 SV=2

MNLERLRKRVRYLDQQQYQSALFWADKVASLSREEPQDIYWLAQCLYLTAQYHRAAHAL

RSRKLDKLYEACRYLAARCHYAAKEHQALDVLDMEEPINKRLFEEKYLDKDESGFKDPSSD  
WEMSQSSIKSSICLLRGKIYDALDNRTLATYSYKEALKLDVYCFEAFDLLTSHHMLTAQE  
EKELLESPLSKLCNEEQELLRFLFENKLLKYNKPSETVIPESVDGLQENLDVVVSLAER  
HYYNCDFKMCKYKLTSVVMEKDPFHASCLPVHIGTLVELNKANELFYLSHKLVDLYPSNPV  
SWFAVGCYYLMVGHKNEHARRYLSKATTLEKTYGPAWIAYGHSFAVESEHDQAMAAYFTA  
AQLMKGCHLPMLYIGLEYGLTNNSKLAERFFSQALSIAPEDPFVMHEVGVVAFQNGEWKT  
AEKWFLDALEKIKAIAGNEVTVDKWEPLNLLGHVCRKLKKYAEALDYHRQALVLIQNAS  
TYSAGIYIHSMLMGNFENAVDYFHTALGLRRDDTFSVTMLGHCIEMYIGDSEAYIGADIKD  
KLKCYDFDVHTMKTLLKNIISPWFDFREFEVEKQTAETGLTPLETSRKTPDSRPSLEETF  
EIMNESDMMLETSMDSHST

>sp|Q9HBB8|CDHR5\_HUMAN Cadherin-related family member 5 OS=Homo sapiens GN=CDHR5 PE=1 SV=3

MGSWALLWPPLLFTGLLVRPPGTMAQAQYCSVNKDIFEVEENTNVTEPLVDIHVPEGQEV  
TLGALSTPFAFRIQGNQLFLNVTDPYEEKSLLEAQLLCQSGGTLVTQLRVFVSVLDVNDN  
APEFPFKTKAIRVEEDTKVNSTVIPETQLQAEDRDKDDILFYTLQEMTAGASDYFSLVSV  
NRPALRLDRPLDFYERPNMTFWLLVRDTPGENVEPSHTATATLVLVNVPADLRPPWFLPC  
TFSDGYVCIQAQYHGAVPTGHILPSPLVLRPGPIYAEDGDRGINQPIIYSIFRGNVNGTF  
IIHPDSGNLTVARSVSPMTFLLLKVGQADLARYSVTQVTVEAVAAAGSPPRFPQRLYR  
GTVARGAGAGVVVKDAAAPSQPLRIQAQDPEFSDLNSAITYRITNHSFRMEGEVLTSTT  
TLAQAGAFYAEVEAHNTVTSGTATTVIEIQVSEQEPPSTDVPPSPEAGGTTGPWTSTTSE  
VPRPPEPSQGPSTTSSGGGTGPHPPSGTTLRPPTSSTPGGPPGAENSTSHQPATPGGDTA  
QTPKPGTSQPMPPGVGTSTSHQPATPSGGTAQTPEPGTSQPMPPSMGTSTSHQPATPGGG  
TAQTPEAGTSQPMPPGMGTSTSHQPTTPGGGTAQTPEPGTSQPMPLSKSTPSSGGGPS  
EDKRFSVVDMAALGGVLGALLLALLGLAVLVHKHYGPRKCCCGKAPEPQPQGFNDQAFLP  
DHKANWAPVPSPTHDPKPAEAPMPAEPAPPGPASPGGAPEPPAAARAGGSPTAVRSILTK  
ERRPEGGYKAVWFGEDIGTEADVVLNAPTLDVDGASDSGSGDEGEAGRGGGPDAPGG  
DDSYI

>sp|094921|CDK14\_HUMAN Cyclin-dependent kinase 14 OS=Homo sapiens GN=CDK14 PE=1 SV=3

MCDLIEPQPAEKIGKMKKLRRTLSESFSRIALKKDDTTFDEICVTMSTRNCQGMDSVIK  
PLDTIPEDKKVRVQRTQSTFDPFEKPANQVKRVHSENNACINFKTSSTGKESPKVRRHSS  
PSSPTSPKFGKADSYEKLKLEGESYATVYKGKSKVNGKLVALKVIRLQEEEGTPFTAIR  
EASLLKGLKHANIVLLHDIHTKETLTLVFEYVHTDLCQYMDKHPGGLHPDNVKLFLFQL  
LRGLSYIHQRYILHRDLKPQNLLISDTGELKLADFGGLARAKSVPSHTYSNEVVTLWYRPP  
DVLLGSTEYSTCLDMWVGVCIFVEMIQGVAAFPGMKDIQDQLERIFLVLGTPNEDTWPGV  
HSLPHFKPERFTLYSSKNLRQAWNKLSYVNHAEDLASKLLQCSPKNRLSAQAALSHEYFS  
DLPPRLWELTDMSSIFTVPNVRLQPEAGESMRAFGKNNSYGKSLSNSKH

>sp|Q00535|CDK5\_HUMAN Cyclin-dependent-like kinase 5 OS=Homo sapiens GN=CDK5 PE=1 SV=3

MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLDDDDEGVPSSALREICLLKELKH  
KNIVRLHDVLHSDKKLTLVFEFCQDLKKYFDSCNGDLDP EIVKSFLFQLLKGFGCHSR  
NVLHRDLKPQNLLINRNGELKLADFGGLARAFGIPVRCYSAEVVTLWYRPPDVLFGAKLYS  
TSIDMWSAGCIFAELANAGRPLFPNGDVDDQLKRIFRLGTPTEEQWPSMTKLPDYKPYP  
MYPATTSLVNVVVKLNATGRDLLQNLKCNPVQRISAEELQHPYFSDFCPP

>sp|P50613|CDK7\_HUMAN Cyclin-dependent kinase 7 OS=Homo sapiens GN=CDK7 PE=1 SV=1

MALDVKSRAKRYEKLDLFGEGQFATVYKARDKNTNQIVAIKKIKLGHRSKADGINRTAL



REIKLLQELSHPNIIIGLLDAFGHKSNI SLVDFMETDLEVI IKDNSLVLT PSHIKAYMLM  
TLQGLEYLHQHWILHRDLKPNNLLLDENGVLKLADFG LAKSFGSPN RAYTHQVVTRWYRA  
PELLFGARMYGVGVDMWAVGCILAELLRLVPFLPGDS DLDQLTRIFETLGTPT EEQWPDM  
CSLPDYVTFKSFPGIPLHHIFSAAGD LLDLIQGLFLFNPCARITATQAL KMKYFSNRPG  
PTPGCQLPRPNCPVETLKEQSNPALAIKRKRTEALEQGGLPKKLI F

>sp|O14519|CDKA1\_HUMAN Cyclin-dependent kinase 2-associated protein 1 OS=Homo sapiens  
GN=CDK2AP1 PE=1 SV=1

MSYKPNLAAHMPAAALNAAGSVHSPSTSMATSSQYRQLLS DYGPPSLGYTQGTGNSQVPQ  
SKYAELLAIIEELGKEIRPTYAGSKSAMERLKRGI IHARGLVRECLAETERNARS

>sp|P36222|CH3L1\_HUMAN Chitinase-3-like protein 1 OS=Homo sapiens GN=CHI3L1 PE=1 SV=2

MGVKASQTGFVVLVLLQCCSAYKLV CYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFAN  
ISNDHIDTWEWNDVTLYGMLNTLKNRNP NLKTLLSVGGWNFGSQRFSKIASNTQSRRTFI  
KSVPPFLRTHGFDGLD LAWLYPGRRDQHF TTIKEMKAEFIKEAQPGKKQLLSAALSA  
GKVTIDSSYDIAKISQHLDFISIMTYDFHGA WRGTTGHHSPLFRGQEDASPDRFSNTDYA  
VGYMLRLGAPASKLVMG IPTFGRSFTLASS ETGVGAPISGPGIPGRFTKEAGTLAYYEIC  
DFLRGATVHRILGQQVPYATKGNQWVG YDDQESVKSKVQYLKDRQLAGAMVWALDLD DFQ  
GSFCGQDLRFPLTNAIKDALAAT

>sp|Q15782|CH3L2\_HUMAN Chitinase-3-like protein 2 OS=Homo sapiens GN=CHI3L2 PE=1 SV=1

MGATTMDQKSLWAGVVVLLLQ GGSAYKLV CYFTNWSQDRQEPGKFTPENIDPFLCSHLI  
YSFASIENNKV I IKDKSEVMLYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVD SSTS  
RLEFINSIILFLRNHNF DGLDVSWIYPDQ KENTHFTVLIHELAEAFQKDFTKSTKERLLL  
TAGVSAGRQ MIDNSYQVEKLAKDLDFINLLS FDFHGSWEKPLITGHNSPLSKGWQDRGPS  
SYYNVEYAVGYWIHKMPSEKVMGIPTYGHSFTLASAETT VGAPASGPGAAGPIT ESSG  
FLAYYEICQFLKGAKITRLQDQVPYAVKGNQWVG YDDVKSMETKVQFLKNLNLGGAMIW  
SIDMDDFTGKSCNQGPYPLVQAVKRSLGSL

>sp|Q8N187|CARTF\_HUMAN Calcium-responsive transcription factor OS=Homo sapiens GN=CARF  
PE=1 SV=2

MEQSNDSLRVNHNDGEESKTS AQVFEHLICMDSRDSSFGQNDSP TVLPITTREANNSLIS  
QNIPGPLTQTQLTSAEQFHLVDQNGQAIQYELQSLGESNAQMMIVASPTENGQVLRVIP P  
TQTGMAQV IIPQGQLVDVNSPRDVPEEKPSNRNLPTVRVDTLADNTSNYILHPQTSFPLP  
KKSVTGMLEEPLGLPLSSNTPIWACRLRSC EKI GDSYRGYCVSETELESVLT FHKQQ  
TQSVWGTRQSPSPAKPATRLMWKSQYVPYDGI PFVNAGSRAVVM ECQYGPRRKGFQLKKV  
SEQESRSCQLYKATCPARIYIKKVQKFPEYRVPTDPKIDKKIIRMEQEKA FNMLKKNLVD  
AGGVLRWYVQLPTQQAHQYHELET PCLTLSPSPFPVSSLEEEETAVRDENCALPSRLHPQ  
VAHKIQELVSQGIEQYAVRKQLRK FVERELFKPDEVPERHNL SFFPTVNDIKNHIHEVQ  
KSLRNGDTVYNSEIIPATLQWTTDSGNILKETMTVTFAEGNSPGESITTKVETNQTRGSL  
SPEPTHLLSSLSFPKIFTQLQLQLQPRYTSPDESPAVVSNNQPS SSPGLLDITGS  
AVMNNNSLLLGGSHSLQRDTCLTQNNSTASTMGNLPEPDQNLVAMDELVEVG DVEDTGNL  
EGTVHRILLGDVQTIPIQI IDNHSALIEENPESTISVSQVKQEPKEPALSM EAKKTVDYK  
KLSAT

>sp|Q16568|CART\_HUMAN Cocaine- and amphetamine-regulated transcript protein OS=Homo  
sapiens GN=CARTPT PE=1 SV=1

MESSRVRLPLLGAALLMLPLLGT RAQEDAELQPRALDIYSAVDDASHEKELIEALQEV  
LKKLKSKRVPIYEKKYGQVPMCDAGEQCAVRKGARIGKLCDCPRGTSCNSFLKCL

>sp|Q6P4E1|CASC4\_HUMAN Protein CASC4 OS=Homo sapiens GN=CASC4 PE=1 SV=1

MVGFGANRRAGRLPSLVLVLLVIVVLAFFNYWSISSRHVLLQEEVAELQGQVQRTEVAR  
GRLEKRNSDLLLLVDTHKKQIDQKEADYGRLLSSRLQAREGLGKRCEDDKVKLQNNISYQM  
ADIHHLKEQLAELRQEFRLQEDQLQDYRKNNNTYLVKRLEYESFQCGQMKELRAQHEENI  
KKLADQFLEEQQETQKIQSNDGKELDINNQVVPKNIPKVAENVADKNEEPSSNHIPHGK  
EQIKRGGDAGMPGIEENDLAKVDDLPPALRKPPISVSQHESHQAISHLPTGQPLSPNMPP  
DSHINHNGNPGTSKQNPSSPLQRLIPGSNLDSEPRIQTDILKQATKDRVSDFHKLKQSRF  
FDENESPVDPQHGSKLADYNGDDGNVGEYEADKQAELAYNEEDGDGGEEDVQGERGPGL  
HAITMKPTSKFFG

>sp|Q96PB1|CASD1\_HUMAN CAS1 domain-containing protein 1 OS=Homo sapiens GN=CASD1 PE=2 SV=1

MAALAYNLGKREINHYFSVRSKVLALVAVLLLAACHLASRRYRGNDSCYLLSSGRFLG  
EKVWQPHSCMMHKYKISEAKNCLVDKHIAFIGDSRIRQLFYSFVKIINPQFKEEGNKHEN  
IPFEDKTASVKVDFLWHPEVNGSMKQCIKWTTEDSIAPHVIVAGAATWSIKIHNGSSEA  
LSQYKMNTSIAPLLEKLAKTSDVYVWLQDPVYEDLLENRKMITNEKIDAYNEAAVSIL  
NSSTRNSKSNVCMFSVSKLIAQETIMESLDGLHLPSSRETTAMILMNVYCNKILKPVVG  
SCCQPRPPVTLIQKLAACFFTLSTIIGYLIFYIIHRNAHRKNKPCTDLESGEKKNIINTP  
VSSLEILLQSFCKLGLIMAYFYMCDRANLFMKENKFYTHSSFFIPIIYILVLGVFYNENT  
KETKVLNREQTDEWKGMQLVILIYHISGASTFLPVYMHIRVLAAYLFQTYGHFSYFW  
IKGDFGIYRVCQVLFRLNFLVVLCCIVMDRPHYFYFVPLVTVWFMVIYVTLALWPQIIQ  
KKANGCNCFWHFGLLLKLGLLLFICFLAYSQGAFKIFSLWPLSKCFELKGNVYEWFRW  
RLDRYVVFHGMFAFIYLALQKRQILSEGKGEPLFSNKISNLLFISVVSFLTYSIWASS  
CKNAECNELHPSVSVVQILAFILIRNIPGYARSVYSSFFAWFGKISLELFICQYHIWLA  
ADTRGILVLIPGNPLNIIIVSTFIVCVAHEISQITNDLAQIIIPKDNSSLLKRLACIAA  
FFCGLLLILSSIQDKSKH

>sp|P31415|CASQ1\_HUMAN Calsequestrin-1 OS=Homo sapiens GN=CASQ1 PE=1 SV=3

MSATDRMGPRVPGRLRLALLLLVLGTPKSGVQGQEGLDPEYDGVDRVINVNAKNYKNV  
FKKYEVALLLYHEPPEDDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAKK  
LGLTEVDSMYVFKGDEVIEYDGEFSADTIVEFLLDVLEDPVELIEGERELQAFENIEDEI  
KLIGYFKSKDSEHYKAFEDAAEEFHPYIPFFATFDSKVAKKLTCLKNEIDFYEAFMEEPV  
TIPDKPNSEEEIVNFVEEHRRTLRKLKPESMYETWEDDMDGIHIVAFEEADPDGFEFL  
ETLKAVAQDNTENPDLSIIWIDPDDFLLVPYWEKTFDIDLAPQIGVVNVTADSVWME  
MDDEEDLPSAEELEDWLEDVLEGEINTEDDDDDDDDD

>sp|P09668|CATH\_HUMAN Pro-cathepsin H OS=Homo sapiens GN=CTSH PE=1 SV=4

MWATLPLLCAWLLGVPVCGAAELCVNSLEKFHFKSWMKSKRKYSTEYHHRLQTFAS  
NWRKINAHNNGNHTFKMALNQFSDMSFAEIKHKYLWSEPQNCSATKSNYLRGTGPYPPSV  
DWRKKGNFVSPVKNQGACGSCWTFSTTGALESAIAIATGKMLSLAEQQLVDCAQDFNNHG  
CQGGLPSQAFEYILYNKGIMGEDTYPYQKGDGYCKFQPGKAIGFVKDVANITIYDEEAMV  
EAVALYNPVSAFAEVTQDFMMYRTGIYSSTSCHKTPDKVNHAVLAVGYGEKNGIPYWIVK  
NSWGPQWGMNGYFLIERGKNMCGLAACASYPIPLV

>sp|O60911|CATL2\_HUMAN Cathepsin L2 OS=Homo sapiens GN=CTSV PE=1 SV=2

MNLSLVLAFLGLIASAVPKFDQNLDTKWYQWKATHRRLYGANEEGWRRRAVWEKNMKMIE  
LHNGEYSQGKHGFTMAMNAFGDMTNEEFRQMMGCFRNQKFRKGKVFREPLFLDLPKSVDW  
RKKGYVTPVKNQKQCGSCWAFSATGALEGQMFRTGKLVSLSEQNLVDCSRPQGNQGCNG

GFMARAFQYVKENGGLDSEESYPYVAVDEICKYRPENSVANDTGFTTVAPGKEKALMKAV  
ATVGPIISVAMDAGHSSSFQFYKSGIYFEPDCSSKNLDHGVLVVGYGFEGANSNNKYWLVK  
NSWGPEWGSNGYVKIAKDKNHCGIATAASYPNV

>sp|P56202|CATW\_HUMAN Cathepsin W OS=Homo sapiens GN=CTSW PE=1 SV=2

MALTAHPSCLLALLVAGLAQGIRGPLRAQDLGPQPLELKEAFKLFQIQFNRSYLSPEEHA  
HRLDIFAHNLAQAQRLQEEDLGTAEFGVTPFSDLTEEEFGQLYGYRRAAGGVPSMGREIR  
SEEPEESVPFSCDWRKVASAISPIKDQKNCNCCWAMAAAGNIETLWRISFWDVSVQE  
LLDCGRCDGCHGGFVWDAFITVLNNSGLASEKDYPFQGKVRARHCHPKKYQKVAWIQDF  
IMLQNEHRIAQYLATYGPITVTINMKPLQLYRKGVIKATPTTCDPQLVDHSVLLVGFGS  
VKSEGIWAETVSSQSQPPHPTPYWILKNSWGAQWGEKGYFRLHRGSNTCGITKFPLT  
ARVQKPDMPRVSCPP

>sp|Q6ZSB3|CB046\_HUMAN Putative uncharacterized protein encoded by LINC00299 OS=Homo sapiens GN=LINC00299 PE=5 SV=1

MVQREKARDNFEGGCLAELIGSPRDWKCFLAVPDLLGVQHWLHLWRPQTKDGNLHRHG  
DQAWGKHRRQNSLKSALSCHSIDYHFYPRLRGMLIGPDKQAVASGLEVLVTSSTKILG  
QLFPDAAHFLEEASEFKA

>sp|Q8N8R5|CB069\_HUMAN UPF0565 protein C2orf69 OS=Homo sapiens GN=C2orf69 PE=1 SV=1

MWGFRLLRSPLLLLLPQLGIGNASSCSQARTMNPGGSGGARCSSLAEVRRRQCLQLSTV  
PGADPQRSNELLLAAAGEGLERQDLPGDPAKEEPQPPQHVLVYFPGDVQNYHEIMTRH  
PENYQWENWSLENAVITLAHRFPNSYIWWIKCSRMHLHKFSCYDNFVKSNMFGAPEHNTD  
FGAFKHLVMLVNAFNLSQNSLSKSLNVWNKDSIASNCRSSPSHTTNGCQGEKVRTCEK  
SDESAMSFYPPSLNDASFTLIGFSKGCVVNLQLLFELKEAKKDNIDAFIKSIRTMYWLD  
GGHSGGSNTWVTYPEVLKEFAQTGIIVHHTVTPYQVRDPMRSWIGKEHKKFVQILGDLGM  
QVTSQIHFTKEAPSIENHFRVHEVF

>sp|A6NGG8|CB071\_HUMAN Uncharacterized protein C2orf71 OS=Homo sapiens GN=C2orf71 PE=1 SV=1

MGCTPSHSDLVNSVAKSGIQFLKKPKAIRPGCQGGSERGSIPLLVKNSTCYDAGEGLAEE  
QPSRRNQTTAKGLCQLMGDPASGKRKDMGLIPGKTSSSQLNKSQSHMAKDIPFKTQG  
SHGSQGADFSGDESEESSTQDTSKWKRTAKCHTSSTQSHCYQTIHPAHEPEGKVDPEPL  
VKAHQAYTYLHSSLSKYEAILCIHQATQTRELLQPMVSFLLLCFEEISQLLGEISKDG  
EVLLQEVREDLAWPLKKREPQEQPNLLQQLQYTVSKLQVLNGTVASLTGSFLEGSSSYL  
HSTATHLENKLSTKRNVDRLRALRQLESASGCGDPGVQGLPLCSEDSGIGADNESVQ  
SVDKLGKQTSWDLAPEPEEWKSVTSPHTEARQSGHTWQQSPFCLGSGRPQDCLLSGAPMA  
KVQPRAQDEARSPCLSSSTPENITSPPLKLTSTPCDSFGIGVSVEPHLSKTSRPM DASS  
LSDSEDSPEEEEEEDKMSSMSLCAWQEKTPHSRPQSSPADRESPFQARTRRLRSLQAQEM  
ILMKESISERIKFVPVPCGHQDWSEEEGRTVVPPRPSTVSGSRRAPERQTRSQSESC  
QSHVEDPTFQELRRVQRDLQKLEAFYALGAKGQGSQEQLQPRAAAVWPNGTCRVSPS  
NTTSRLKASLTKNFSILPSQDKSILQKCNPHPEDEQGKAGKLPNAIPSGEVSEAAKATDW  
NVRGCPTRTSVKKL IETFSPTESLRMLGDSKDAGASPCLRNCIMPPRFKYTGLAPLYPK  
PQISPASGRESLKMIGWKPLAIFPPLPKAEAAKSEELSCMEGNLEHLPPPPMEV LMD  
KSFASLESPESSKSTENSPKETQEPGPGEAGPTRRTWASPKLRASVSPLDLLPSKSTASL  
TKPHSTGPGSGRSSCQPRKPALDLSSPATSSQPEVKGGTWSQA EKATSLYRQPRKAIW  
HHSGPPSGQNRTSESSLARPRQSRERSPPVGRKASPTRTHWVPQADKRRRSLPSSYRPAQ  
PSPSAVQTPPSPPVSPRVLSPTTKRRTSPPHQPKLPNPPPE SAPAQCKVPSPTQHPEA

SPPFSIPSPSPMSPSQEHKETRSEDSDQAVIAKVSNGTHSIFCPATSSLFEAKPPLSTA  
HPLTPPSLPPEAGGPLGNPAECWKNSSGPWLRAQSRRALCALNPLPFLRRTASDRQPG  
GRPQPPTLDPTSTSYESQLGQNSSEESPKKDETEPGSSPCPELQGGTRRASPEFCVLG  
HGLQPEPRTGHIQDKSQPEAQPPQEEVS

>sp|Q8N350|CBARP\_HUMAN Voltage-dependent calcium channel beta subunit-associated  
regulatory protein OS=Homo sapiens GN=CBARP PE=1 SV=3

MQPTATMATAATTTTTTATVALTTSWDNATGRPTAEPDPILDNYVLLVVVMSLVGGTL  
VVLSGVLLLCRKCDVHQRLNNAMEEAETTTTTYLDNGTHPAQDPDFRGEDPECQDAETE  
RFLSTSSTGRRVSFNEAALFEQSRKTQDKGRRYTLTEGDFHHLKNARLTHLHLPPLKIVT  
IHECDSGEASSATTPHPATSPKATLAIFQPPGKALTGRSVGPSSALPGDPYNSAAGATDF  
AEISPSASSDSGEGTSLDAGTRSTKAGGPGAAAGPGEAGPGSGAGTVLQFLTRLRRHASL  
DGASPYFKVKKWKLEPSQRAASLDTRGSPKRHHFQRQRAASESTEQEEGDAPQEDFIQYI  
ARAGDAVAFPHRPFPLASPPPALGRLEAAEAAGGASPDSPPERGAGSAGPEQQPPLEPD  
AERDAGPEQAQTSYRDLWSLRASLELHAAADHSSSGNDRDSVRSQDSSGSGGGAAPAF  
PPSPPPAPRPKDGEARRLLQMDSGYASIEGRGAGDDTEPPAAPARPRSPRAWPRRPRRDY  
SIDEKTDALFHEFLRHDPHFDDTPAAARHRARAHPHARKQWQRGRQHSDFGARAAPALAG  
TPAPPAGAARPARAPLRRGDSVDGPPDGRTLGGAGDDPAIPVIEEPPGGGGCPGSGLCVL  
PSGSVLDKLAAGLDERLFPPRLAEPVVATPALVAAAPTSPDHSPA

>sp|Q9ULV8|CBLC\_HUMAN E3 ubiquitin-protein ligase CBL-C OS=Homo sapiens GN=CBLC PE=1 SV=3

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAH  
SRRAAGGGGPGGPGSGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAQSRLRRQ  
LAKLAIIFSHMAELHALFPGGKYCGHMYQLTKAPAHTFWRESCGARCVLPAEFESLLG  
TCHPVEPGCTALALRTTIDLTCSGHVSIFEDVFTRLFQPWPTLLKNWQLLAVNHPGYMA  
FLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLLE  
GQKDGFIYLPDGKTHNPDLTELGAEPQQRIHVSEEQLQLYWAMDSTFELCKICAESNKD  
VKIEPCGHLLCSCCLAAWQHSQSCTPCFRCCEIKGWEAVSIYQFHGQATAEDSGNSSDQE  
GRELELGQVPLSAPPLPPRPDLPPRKPRNAQPKVRLKGNSPPAALGPQDPAPA

>sp|Q9NTU7|CBLN4\_HUMAN Cerebellin-4 OS=Homo sapiens GN=CBLN4 PE=1 SV=1

MGSGRRALSAVPAVLLVLTLPGLPVWAQNDTEPIVLEGKCLVVCDSNPATDSKSSSSPL  
GISVRAANSKVAFAVRSTNHEPSEMSNKTRIIFYDQILVNVGNFFTLESVVFVAPRKGIIY  
SFSFHVIVKYQSQTIVNLMLNGKPVISAFAGDKDVTREATNGVLLYLDKEDKVYLKLE  
KGNLVGGWQYSTFSGFLVFPL

>sp|P22681|CBL\_HUMAN E3 ubiquitin-protein ligase CBL OS=Homo sapiens GN=CBL PE=1 SV=2

MAGNVKKSSGAGGSGSGSGSGGLIGLMKDAFQPHHHHHHLSPHPPGTVDKMMVEKCW  
KLMDKVRLCQNPKLALKNSPPYILDLLPDITYQHLRTILSRYEGKMETLGENEYFRVFME  
NLMKKTQTISLFKEGKERMYEENSQPRRNLTLSLIFSHMLAELKGIFPSGLFQGDTR  
ITKADAAEFWRKAFGEKTIVPWKSFRQALHEVHPISSGLEAMALKSTIDLTCNDYISVFE  
FDIFTRLFQPWSSLLRNWNSLAVTHPGYMAFLTYDEVKARLQKFIHKPGSYIFRLSCTRL  
GQWAIGYVTADGNILQTIHPNKPLFQALIDGFREGFYLPDGRNQNPDLTGLCEPTQDH  
IKVTQEYELYCEMGSTFQLCKICAENDKDKIEPCGHLMCTSLTSWQSEGGQCPFCR  
CEIKGTEPIVVDPPDPRGSGSLRQGAEGAPSPNYDDDDDERADDTLFMMKELAGAKVER  
PPSPFMAPQASLPPVPRDLDPQRVCVPSSASALGTASKAASGSLHKDKPLVPPTLR  
DLPPPPPPDRPYSVGAESRPQRRPLPCTPGDCPSRDKLPPVPSSRLGDSWLPRPIPKVPV  
SAPSSSDPWTGRELTNRHSLPFSLPSQMEPRPDVPRLGSTFSLDTSMSMNSSPLVGPECD

HPKIKPSSSANAIYSLAARPLVPVKLPPEGEQCEGEEDTEYMTSSRPLRPLDTSQSSRAC  
DCDQQIDSCTYEAMYNISQAPSITESSTFGEGNLAAAHANTGPEESENEDDGYDVPKPP  
VPAVLARRTLSDISNASSSFGWLSLDGDPTTNVTEGSQVPERPPKPFRRINSEKAGSC  
QQGSGPAASAATASPQLSSEIENLMSQGYSYQDIQKALVIAQNNIEMAKNILREFVSISS  
PAHVAT

>sp|Q9UPW5|CBPC1\_HUMAN Cytosolic carboxypeptidase 1 OS=Homo sapiens GN=AGTPBP1 PE=1 SV=3  
MSKLVKVIPEKSLTNSRIVGLLAQLEKINAEPSESDTARYVTSKILHLAQSQEKTRREMT  
AKGSTGMEILLSTLENTKDLQTTNLILVELVSAGGGRRVSFLVTKGGSQILLQLLMN  
ASKESPPEHEDLMVQIHSILAKIGPKDKKFGVKARINGALNITLNLVKQNLQNHRLVLPCL  
QLLRVYSANSVNSVSLGKNGVVELMFKIIGPFSKKNSSLIKVALDTLAALLKSKTNARRA  
VDRGYVQVLLTIYVDWHRHDNRHRNMLIRKGILQSLKSVTNIKLGRKAFIDANGMKILYN  
TSQECLAVRTLDPVNTSSLIMRKCFFKNRPLPTIKSSFHFQLPVIPVTGPVAQLYSLP  
PEVDDVDESDDNDDIDVEAENETENEDDLQNFKNDDIETDINKLKPQQEPGRTIEDLK  
MYEHLFPPELVDDFQDYDLISKEPKPFVFEGKVRGPIVPTAGEETSGNSGNLRKVMKEN  
ISSKGDEGEKKSTFMDLAKEDIKDNDRTLQQQPGDQNRTISSVHGLNNDIVKALDRITLQ  
NIPSQTAPGFTAEMKKDCSLPLTVLTCAKACPHMATCGNVLFEGRTVQLGKLCCTGVETE  
DDEDESNSSSVEQASVEVPDGP TLHDPDLYIEIVKNTKSVPEYSEVAYPDYFGHIPPPFK  
EPILERPYGVQRTKIAQDIERLIHQSDIDRVVYDLNPNYTIPEGDILKFNKSFESGN  
LRKVIQIRKNEYDLILNSDINSNHYHQWFYFEVSGMRPGVAYRFNIINCEKSNSQFNYGM  
QPLMYSVQEALNARPPWIRMGTDICYKNHFSRSSVAAGGQKGSYYTITFTVNFPHKDD  
VCYFAYHYPTYSTLQMHLLKLESANPQQIYFRKDVLCETLSGNSCPLVTITAMPESNY  
YEHICHFRNRPYVFLSARVHPGETNASWVMKGTLEYLMSNNPTAQLRESYIFKIVPMLN  
PDGVINGNHRCSLSGEDLNRQWQSPSPDLHPTIYHAKGLLQYLA AVKRLPLVYCDYHGHS  
RKKNVFMYGCSIKETVWHTNDNATSCDVVEDTGYRTL PKILSHIAPAFCMSSCSFVVEKS  
KESTARVVVWREIGVQRSYTMESTLCGCDQGKYKGLQIGTRELEEMGAKFCVGLLRKRL  
TSPLEYNLPSSLLDFENDLIESCKVTSPTTYVLDEDEPRFLEEVDYSAESNDELIELA  
ENVGDIYEPSAQEEVLSDSELSRTYLP

>sp|075828|CBR3\_HUMAN Carbonyl reductase [NADPH] 3 OS=Homo sapiens GN=CBR3 PE=1 SV=3  
MSSCSRVALVTGANRIGLAIARELCRQFSGDVLTARDVARGQAAVQQLQAEGLSPRFH  
QLDIDDLQSIRALRDFLRKEYGGLNVLVNNAAVAFKSDDPMPFDIKAEMTLKTNFFATR  
MCNELLPIMKPHGRVVNISSLQCLRAFENCEDLQERFHSETLTEGDLVDMKKFVEDTK  
NEVEREGWPNSPYGVSKLGVTLSRILARRLDEKRAKADRILVNACCPGVKTDMDGKDS  
IRTVEEGAETPVYLALLPPDATEPQGQLVHDKVQNW

>sp|Q4V339|CBWD6\_HUMAN COBW domain-containing protein 6 OS=Homo sapiens GN=CBWD6 PE=3  
SV=1  
MLPAVGSVDEEEDPAEEDCPPELVPIETTQSEEEKSGLGAKIPVTIITGYLGAGKTLLN  
YILTEQHSHKRVAVILNESGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNGLRAI  
ENLMQKKGKFDDILLETTGLADPGAVASMFVWDAELGSDIYLDGIITIVDSKYGLKHLTE  
EKPDGLINEATRQVALADIILINKTDLVPEEDVKKLRITTLRSINGLGQILETQRSRVCLS  
NVLDLHAFDSLGSISLQKKLQHVPGTQPHLDQSIVTITFDVPGNAKEEHLNMFIQNLLWE  
KNVRNKDNHCMEVIRLKLVS IKDKSQQVIVQGVHELCDLEETPVSWKDDTERTNRLVLI  
GRNLDKDILKQLFIATVTETETEKQWTHFKEDQVCT

>sp|Q6P1S2|CC033\_HUMAN Protein C3orf33 OS=Homo sapiens GN=C3orf33 PE=1 SV=2  
MAGQPAATGSPSADKDGMEPNVVARISQWADDHLRLVRNISTGMAIAGIMLLRSIRLTS

KFTSSSDIPVEFIRRNVKLGRRLRITENGLEIEHIPITLPIIASLRKEPRGALLVKLAG  
VELAETGKAWLQKELKPSQLLWFQLLGKENSALFCYLLVSKGGYFSVNLNNEILRRGLGK  
TVLVKGLKYDSKIYVTVHRNLLKAELTALKKGEGIWKEDSEKESYLEKFKDSWREIWKKD  
SFLKTTGSDFLKKESYYEKLKRTYEIWKDNMNNCSLILKFRELISRINFRRKG

>sp|POCE67|CC079\_HUMAN Putative uncharacterized protein C3orf79 OS=Homo sapiens  
GN=C3orf79 PE=4 SV=1

MHVCDLQKLVRIQLAFTTFPWFMSCHLLPTPELSSKRNCCLLYKTSGCLTQMPILYGHPA  
TLLKDYILQAILQPGKKIQGGTEIQRGSFANQYQTDASHL

>sp|Q8IVM0|CCD50\_HUMAN Coiled-coil domain-containing protein 50 OS=Homo sapiens GN=CCDC50  
PE=1 SV=1

MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAK  
QLQEEDLKAQAQLQKRYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKE  
LQEEKRKKKHFPEFPATRAYADSYYYEDGGMKPRVMKEAVSTPSRMAHRDQEWYDAEIA  
KLQEEELLATQVDMRAAQAQDEEIAARLLMAEEKKAYKKAKEREKSSLDKRKQDPEWPKP  
TAKAANSKSKESDEPHHSKNERPARPPPPIMTDGEDADYTHFTNQSSSTRHFSKSESSHK  
GFHYKH

>sp|Q4VC31|CCD58\_HUMAN Coiled-coil domain-containing protein 58 OS=Homo sapiens GN=CCDC58  
PE=1 SV=1

MAAPSGGVNCEEFAEFQELLKVMRTIDDRIVHELNTTVPTASFAGKIDASQTCKQLYESL  
MAAHASRDRVIKNCIAQTSAVVKNLREEREKNLDDLTLKQLRKEQTKLKWMSSELNVEE  
VVNDRSWKVFNERCRIHFKPPKNE

>sp|Q8N998|CCD89\_HUMAN Coiled-coil domain-containing protein 89 OS=Homo sapiens GN=CCDC89  
PE=2 SV=1

MRAPMLQKQAPRMDTPPPEERLEKQNEKLNNQEEETEFKELDGLREALANLRGLSEEER  
SEKAMLSRIEEQSQLICILKRRSDEALERQILELLNAELEEKMMQEAELKAQGEYSR  
KLEERFMTLAANHEMLRFRKDEYKSENIKLRENEKLRLENSSLFSQALKDEEAKVLQLT  
VRCEALTGELETAKERCAQDACQAQAREKELLELSQQACTHTKETEQRLSQLTLKQQH  
QQAVEQIAKAEETHSSLSQELQARLQTVTREKEELLQLSIERGKVLQNKQAEICQLEEK  
EIANEDRKHALERFEQEAVALDSNLRVRELQRKVDGIQKAYDELRLQSEAFKKHSLDLLS  
KERELNGKLRHLSP

>sp|Q9BW85|CCD94\_HUMAN Coiled-coil domain-containing protein 94 OS=Homo sapiens GN=CCDC94  
PE=1 SV=1

MSERKVLNKYYPPDFDPSKIPKLKLPKDRQYVVRLMAPFNMRCCTCGEYIYKGGKFNARK  
ETVQNEVYLGPIFRFYIKCTRCLAEITFKTDPENTDYTMEHGATRNFQAEKLLEEEKE  
VQKEREDEELNNPMKVLENRTKDSKLEMEVLENLQELKDLNQRQAHVDFEAMLRQHRLSE  
EERRRQQQEEDEQETAALLEARKRRLLSDSEDEAAPSPLQPALRPNPTAILDEAPKP  
KRKVEVWEQSVGSLGSRPPLSRLVVVKAKADPDCSNGQPQAAPTPGAPQNRKEANPTPL  
TPGASSLSQLGAYLSDSDSNGSN

>sp|Q9BQI4|CCDC3\_HUMAN Coiled-coil domain-containing protein 3 OS=Homo sapiens GN=CCDC3  
PE=2 SV=1

MLRQLLLAALCLAGPPAPARACQLPSEWRPLSEGCRAELAETIVYARVLALHPEAPGLYN  
HLPWQYHAGQGGLFYSAEVEMLCDQAWGSMLEVPAGSRLNLTGLGYFSCHSHTVVQDYSY  
FFFLRMDENYNLLPHGVNFQDAIFPDTQENRRMFSSLFQFSNCSQGQQLATFSSDWEIQE  
DSRLMCSSVQKALFEEEDHVKKLQKQVATLEKRNRLRERVKKVKRSLRQARKKGRHLEL

ANQKLSEKLAAGALPHINARGPVRPPYLRG

>sp|Q16204|CCDC6\_HUMAN Coiled-coil domain-containing protein 6 OS=Homo sapiens GN=CCDC6  
PE=1 SV=2

MADSASESDTDGAGGNSSSSAAMQSSCSSTSGGGGGGGGGGGKSGGIVISPFRLLELT  
NRLASLQQENKVLKIELETYKLCKALQEENRDLRKASVTIQARAEQEEEFISNTLFKKI  
QALQKEKETLAVNYEKEEEFLTNELSRKLMQLQHEKAELEQHLEQEQEFQVNKLMKKIKK  
LENDTISKQLTLEQLRREKIDLENTLEQEALVNRLWKRMDKLEAEKRILQEKLDQPVS  
APPSPRDISMEIDSPENMMRHIFLKNEVERLKKQLRAAQLQHSEKMAQYLEEERHMREE  
NLRLQRKLQREMERREALCRQLESESESSLEMDDERYFNEMSAQGLRPRTVSSPIPYTPSP  
SSSRPISPGLSYASHTVGFPTPSLTRAGMSYNSPGLHVQHMGTSHGITRPSRRNSNP  
DKFKRPTPPSPNTQTPVQPPPPPPPPMQPTVPSAATSQPTPSQHSAPSSQP

>sp|Q06432|CCG1\_HUMAN Voltage-dependent calcium channel gamma-1 subunit OS=Homo sapiens  
GN=CACNG1 PE=1 SV=1

MSQTKMLKVRVTLFCILAGIVLAMTAVVTDHWAVLSPHMEHHNTTCEAAHFLWRICKR  
IPMDDSKTCGPITLPGKNCYSYFRHFNPGESSEIFEFTTQKEYSISAAAIAIFSLGFIL  
GSLCVLLSLGKKRDYLLRPASMFYAFAGLCILVSVEVMRQSVKRMIDSEDTVWIEYYYSW  
SFACACAAFIILLFLGGLALLFLSLPRMPRNPWESCMDAEPH

>sp|Q9Y698|CCG2\_HUMAN Voltage-dependent calcium channel gamma-2 subunit OS=Homo sapiens  
GN=CACNG2 PE=1 SV=1

MGLFDRGVQMLLTTVGAFAAFSLMTIAVGTDYWLYSRGVCKTKSVSENETSKKNEEVMTH  
SGLWRTCCLEGNFKGLCKQIDHFPEDADYEADTAEYFLRAVRASSIFPILSVILLFMGGL  
CIAASEFYKTRHNIILSAGIFFVSAGLSNIIGIIVYISANAGDPSKSDSKNSYSYGWSF  
YFGALSFIIAEMVGLAVHMFIDRHKQLRATARATDYLQASAITRIPSYRYRYQRRSRSS  
SRSTEPSHSRDASPVGIKGFNTLPSTEISMYTLSRDPLKAATTPTATYNSDRDNSFLQVH  
NCIQKENKDSLHSNTANRRTPV

>sp|Q9UBN1|CCG4\_HUMAN Voltage-dependent calcium channel gamma-4 subunit OS=Homo sapiens  
GN=CACNG4 PE=2 SV=1

MVRCDRGLQMLLTAGFAFAAFSLMAIAIGTDYWLYSSAHICNGTNLTMDGPPRRARGD  
LTHSGLWRVCCIEGIYKGHCFRINHFPEDNDYDHSSEYLLRIVRASSVFPILSTILLLL  
GGLCIGAGRIYSRKNIVLSAGILFVAAGLSNIIGIIVYISSNTGDP SDKRDEDKKNHYN  
YGWSFYFGALSFIVAETVGLAVNIYIEKNKELRFKTKREFLKASSSPYARMP SYRYRR  
RRSRSSSRSTEASPRDVS PMGLKITGAIPMGELSMYTL SREPLKVTTAASYPDQEASF  
LQVHDFQQLKEGFHVSM LNRRTPV

>sp|P06307|CCKN\_HUMAN Cholecystokinin OS=Homo sapiens GN=CCK PE=1 SV=1

MNSGVCLCVLMAVLAAGALTQVPPADPAGSGLQRAEEAPRRQLRV SQRTDGESRAHLGA  
LLARYIQQARKAPSGRMSIVKNLQNLDP SHRISDRDYMGWMDFGRRSAEEYEYPS

>sp|O15467|CCL16\_HUMAN C-C motif chemokine 16 OS=Homo sapiens GN=CCL16 PE=1 SV=1

MKVSEAA SLLVLILITSASRSQPKVPEWNTPTSCCLKY EKVLPRRLVVG YRKALNC  
HLP AII FVTKR NREVCTNPNDWVQEYIKDPNLPLLPTRNLSTVKIITAKNGQPQLLSQ

>sp|Q9Y4X3|CCL27\_HUMAN C-C motif chemokine 27 OS=Homo sapiens GN=CCL27 PE=1 SV=1

MKG PPTFC SLLLL SLLSPDPTAAFLPPSTACCTQLYRKPLSDKLLRKVIQVELQEADG  
DCHLQAFVHLHAQRSIC IHPQNPSLSQWFEHQERKLHGTL PKLNF GMLRKMKG

>sp|P13500|CCL2\_HUMAN C-C motif chemokine 2 OS=Homo sapiens GN=CCL2 PE=1 SV=1

MKVSAALLC LLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCP

KEAVIFKTIVAKEICADPKQKWVQDSMDHLDKQTQTPKT

>sp|P10147|CCL3\_HUMAN C-C motif chemokine 3 OS=Homo sapiens GN=CCL3 PE=1 SV=1

MQVSTAALAVLLCTMALCNQFSASLAADPTACCFSYTSRQIPQNFADIYFETSSQCSKP

GVIFLTKRSRQVCADPSEEWVQKYVSDLELSA

>sp|075419|CDC45\_HUMAN Cell division control protein 45 homolog OS=Homo sapiens GN=CDC45  
PE=1 SV=1

MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQELET

AFLEHKEQFHYFILINCGANVDLLDILQPDEDTIFFVCDTHRPVNVVNVYNDTQIKLLIK

QDDDLVLPAYEDIFRDEEEDDEHSGNDSGSEPSEKTRLEEEIVEQTMRRRQRREWEAR

RRDILFDYEQYEHGTSSAMVMFELAWMLSKDLNDMLWWAIVGLTDQWVQDKITQMKYVT

DVGVLQRHVSRRHNRNEDEENTLSVDCTRISFEYDLRLVLYQHWSLHDSLNTSYTAARF

KLWSVHGQKRLQEFADMGPLPKQVKQKFQAMDISLKENLREMIEESANKFGMKDMRVQT

FSIHFGFKHKFLASDVVFATMSLMESPEKDGSGTDHFIQALDSLRSNLDKLYHGLELAK

KQLRATQQTIASCLCTNLVISQGPFLYCSLMEGTPDVMLFSRPASLSLLSKHLLKSFVCS

TKNRRCKLLPLVMAAPLSMEHGTVTVVGIPPETDSSDRKNFFGRAFEKAAESTSSRMLHN

HFDLSVIELKAEDRSKFLDALISLLS

>sp|Q96JP9|CDHR1\_HUMAN Cadherin-related family member 1 OS=Homo sapiens GN=CDHR1 PE=1  
SV=2

MRRCRWAALALGLRLCLAQANFAPHFFDNGVGSTNGNMALFSLPEDTPVGS HVYTLNGT

DPEGDPISYHISFDPSTRSVFSDPTFGNITLVEELDREREDEIEAIIISDGLNLVAEK

VVILVTDANDEAPRFIQEPYVALVPEDIPAGSIIFKVHAVDRDTGSGGSVTYFLQNLHSP

FAVDRHSGVLRQLAGATLDYERSRTHYITVAKDGGGRLHGADVVSATTTVTNVEDVQ

DMAPVFGTPTYGYVYEDTLPGSEVLKVVAMDGDRGKPNRILYSLVNGNDGA FEINETSG

AISITQSPAQLQREYVELHVQVTEMSPAGSPAQAATVPVTIRIVDLNNHPPTFYGESGPQ

NRFELSMNEHPPQGEILRGLKITVNDSDQGANA KFNQLVGPRGIFRVVPQTVLNEAQVT

IIVENSA AIDFEKSKVLTFKLLAVEVNTPEKFSSTADVVIQLLDTNDNVPKFDSL YVVAR

IPENAPGGSSVAVTA VDPDTGPWGEVKYSTYGTGADLFLIHPSTGLIYTQPWASLDAEA

TARYNFYVKAEDMEGKYSVAEVFITLLDVNDHPPQFGKSVQKKT MVLGTPVKIEAIDEDA

EEPNNLV DYSITHAEPANVFDINSHTGEIWLKNSIRSLDALHNITPGRDCLWSLEVQAKD

RGSPSFSTTALLKIDITDAETLSRSPMAAFLIQTKDNPMKAVGVL AGTMATVVAITVLIS

TATFWRNKKS NKVLPMRRVLKRKRPSPAPRTIRIEWLKS KSTKAATKFMLKEKPPNENCNN

NSPESSLLPRAPALPPPPSVAPSTGAAQWTVPTVSGSLTPQPTQPPPKPKTMGSPVQSTL

ISELKQKFEKKS VHNKAYF

>sp|Q92772|CDKL2\_HUMAN Cyclin-dependent kinase-like 2 OS=Homo sapiens GN=CDKL2 PE=1 SV=1

MEKYENLGLVGE GSYGMVMKCRNKDTGRIVA IKKFLESDDDKMVKKIAMREIKLLKQLRH

ENLVNLL EVCKKKR WYLVFEFVDHTILDDLELFPNGLDYQVVQKYL FQIINGIGFCHSH

NI IHRDIKPENILVSQSGVVKLCDFGFARTLAAPGEVYTDYVATRWYRAPELLVGDVKYG

KAVDVWAIGCLVTE MFGEPLFPGDSDIDQLYHIMMCLGNLIPRHQELFNKNPVFAGVRL

PEIKEREPLERRY PKLSEVVIDLAKKCLHIDPKRPFCAELLHHDFFQMDGFAERFSQEL

QLKVQKDARNVSLSKKSQNRKKEKEKD DSVLEERKTLVVQD TNADPKIKDYKLFKIKGSK

IDGEKAEKGNRASNASCLHDSRTSHNKIVPSTSLKDCSNVSVDHTRNPSVAIPPLTHNLS

AVAPSINSGMGTETIPIQGYRVEKTKKCSIPFVKPNRHSPSGIYNINVTTLVSGPPLSD

DSGADLPQMEHQH

>sp|Q8IVW4|CDKL3\_HUMAN Cyclin-dependent kinase-like 3 OS=Homo sapiens GN=CDKL3 PE=1 SV=1



MEMYETLGKVGESYGTVMKCKHKNTGQIVAIKIFYERPEQSVNKIAMREIKFLKQFHHE  
NLVNLIEVFRQKKKIHLVFEFIDHTVLDELQHYCHGLESKRRLRKYL FQILRAIDYLHSNN  
I IHRDIKPENILVSSGITKLCDFGFARTLAAPGDIYTDYVATRWYRAPELVLKDTSYGK  
PVDI WALGCMIIEMATGNPYLPSSDDLHKKIVLKVGNLSPHLQNI FSKSPIFAGVVLP  
QVQHPKNARKKYPKLNGLLADIVHACLQIDPADRISSDDLHHEYFTRDGFIEKFMPELK  
AKLLQEAKVNSLIKPKESSKENELRKDERKTVYTNLTLLSSSVLGKEIEKEKKPKEIKVRV  
IKVKGGRGDISEPKKEYEGGLGQDANENVHPMPDTKLV TIEPPNPINPSTNCNLKE  
NPHCGGSVTMP PINLTNSNLMAANLSSNLFHPSVRLTERAKKRRTSSQSIGQVMPNSRQE  
DPGPIQSQMEKGI F NERTGHSDQMANENKRKLNFSRSDRKEFHFP ELPVTIQSKDTKGME  
VKQIKMLKRESKKTESKIPTLLNVDQNEKQEGGDGHCEGKNLKRNRFFFW

>sp|P49918|CDN1C\_HUMAN Cyclin-dependent kinase inhibitor 1C OS=Homo sapiens GN=CDKN1C  
PE=1 SV=1

MSDASLRSTSTMERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNR  
WDYDFQQDMPLRGPGRQLQWTEVSDSVPAFYRETVQVGRCRLLLAPRPVAVAVAVSPPLE  
PAAESLDGLEEAPEQLPSVPVPAPASTPPPVPVLAPAPAPAPAPVAAPVAAPVAVAVLAP  
APAPAPAPAPAPAPVAAPAPAPAPAPAPAPAPAPDAAPQESAEQGANQGQRGQEPLAD  
QLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKKRKSAPEKSSGDVPAPCSPSA  
APGVGSVEQTPRKRLR

>sp|Q52M75|CE027\_HUMAN Putative uncharacterized protein encoded by LINC01554 OS=Homo  
sapiens GN=LINC01554 PE=4 SV=2

MTPCLESFCQRAKCKQNIPLPFLIQDWPLESESKPQQGDFWTPQPLQAAAP SHEFQQVAL  
HPARTRLASRPQGGRLMSSREVGRLAPRCSCGKRKR

>sp|Q96MH7|CE034\_HUMAN Uncharacterized protein C5orf34 OS=Homo sapiens GN=C5orf34 PE=2  
SV=2

MAAELRMILYEDDSVQVQYVDGSTLQLSPCGTEFLFEKSPPVSAHPLEQPERIRQRTHFV  
ISTYREQLQRALDFRNSATCPFLSETIIPSERKKHIFIDITEVRWPSLDTGTMIYMES  
GIVKITSLDGHAYLCLPRSQHEFTVHFLCKVSQKSDSSAVLSETNNKAPDKLVEKTGKI  
CIRGNLPGQRLKNKENEHFHCQIMKSKETLKKMSCVNGTEGREELPSPGTHKTCVYTWWKQ  
CWSVAACPEEWKYPLSLALHFHNKISNMSKIDAHTQSRFLTSDISEERGKVVSVLPRAL  
SLSCPVPHLHRWNFCDSL LQRQSDEYSYPELVKMVWYKGVTYRLTHQNMNSIEIYSGDGS  
VFKSEGAYFGNYFTYYSIQEGSGKREEKTYSVNNLPPDRPGSPFTVGS LIKQATRILQHC  
VKMRLSLSHNYRICCKWMPGINDSNILPLVLKESLIPSVGRFLAYSDDKVHAI FLDGIT  
LTLNWNFSSPIEKRVNQGLNLGWCKLTFPDGQEQLIQIEHPEPYERYVTTVT SWCRRLT  
QTSPREMPHTSSSVLQENWSVASELEKIQKFNL LLENSGILNQISNKKNEQQSFDHYKP  
GSSETLLGEVNENRVSIALKKTSEILHDIDCLLSNSKK

>sp|Q6NTE8|CE045\_HUMAN UPF0544 protein C5orf45 OS=Homo sapiens GN=C5orf45 PE=2 SV=2

MASLQSRSVLRCCSCRLFQAHQVKKSVKWTCKACGEKQSFLQAYGEGSGADCR RHVQKLN  
LLQGQVSELPLRSLEETVSASEEENVGHQQAGNVKQKEKSPSESRWLKYLEKDSQELEL  
EGTGVCFSKQPSSKMEEGPRFSQDLPRKRKWSRSTVQPPCSRGVQDSGGSEVAWGPQKG  
QAGLTWKVKQGSSPCLQENSADCSAGELRGPGKELWSPIQVQTATSSKWAQFVLP PRKSS  
HVDSEQPRSLQRDPRPAGPAQAKQGT PRAQASREGLSRPTAAVQLPRATHPVTSGSERPC  
GKTSDWARTPWAEGGPLVLEAQNRPRTLCDL FITGEDFDDDV

>sp|Q569G3|CE047\_HUMAN Uncharacterized protein C5orf47 OS=Homo sapiens GN=C5orf47 PE=2  
SV=2

MAAAGRGREQDSARFVYVTRFGSHQCSGVLQLGGRGAQGLWGQGPAGCRQEKPREAMAV  
AGVQGGSELPLGSQLRVPTTPGVEAAASASSQLRASRVQSGTRQSARAGLIQKDAKKYD  
FPIPLNEASKIMKKKKVLVWNRVYKVISRMLEENEKYRHLKQCRLSSESSNYTR

>sp|Q8N960|CE120\_HUMAN Centrosomal protein of 120 kDa OS=Homo sapiens GN=CEP120 PE=1 SV=2

MVSKSDQLLIVVSIIEGRHFPKRPKHMLVVEAKFDGEQLATDPVDHTDQPEFATELAWEI  
DRKALHQHRLQRTPIKLQCFALDPVTSAKETIGYIVLDLRTAQETKQAPKQWYQLLSNKYT  
KFKSEIQISIALETDTKPPVDSFKAKGAPPRDGKVPAILAGLDPRDIVAVLNEEGGYHQI  
GPAEYCTDSFIMSVTIAFATQLEQLIPCTMKLPERQPEFFFYSSLGNDVTNEPFNDLIN  
PNFEPERASVRIRSSVEILRVYLALQSKLQIHLCCGDQSLGSTIEPLTGLLKKGSTEQ  
HPVTVEGAFTLDPPNRAKQKLAPIVELAPTGVGSVALQREGIDSQSLIELKTQNEHEPE  
HKKKKVLTPIKEKTLTGPKSPTVSPVPSHNQSPPTKDDATESEVESLQYDKDTKPNPKAS  
SSVPASLAQLVTTNASEVASGQKIAVPATSHHFCFSIDLRSHALEIGFPINCILRYSY  
PFFGSAAPIMTNPPVEVRKNMEVFLPQSYCAFDATMPHQLQDTFLRIPLLVELWHKDKM  
SKDLLLGIARIQLSNILSSEKTRFLGSNGEQCWRQTYSESVPIAAQGSNNRIADLSYTV  
TLEDYGLVKMREIFISDSSQGVSAVQQKPSSLPPAPCPSEIQTEPRETLEYKAAELEMW  
KEMQEDIFENQLKQKELAHMQALAEWKKRDRERESLVKKKVAEYTIIEGKLQKTLIDLE  
KREQQLASVESELQREKKELQSERQRNLQELQDSIRRAKEDCIHQVELERLKIKQLEEDK  
HRLQQQLNDAENKYKILEKEFQFKDQNNKPEIRLQSEINLLTLEKVELERKLESATKS  
KLHYKQWGRALKELARLKQREQESQMARLKKQEELEQMRLRYLAEEKDVTKTERQEL  
LDIRNELNRLRQQEQKQYQDSTEIASGKKDGPBGVLEEGLDYLRLEERDTLMRTGV  
YNHEDRIISELDRQIREILAKSNASN

>sp|Q8IYX8|CE57L\_HUMAN Centrosomal protein CEP57L1 OS=Homo sapiens GN=CEP57L1 PE=1 SV=1

MDSELMHSIVGSYHKPPERVFPVSFTQNEPSQNCHPANLEVTSPKILHSPNSQALILALK  
TLQEKIHRLELERTQAEDNLNLSREAAQYKKALENETNERNLAHQELIKQKKDISIQLS  
SAQSRCTLLEKQLEYTKRMVLNVEREKNMILEQQAQLQREKEQDMKLYAKLEKLDVLEK  
ECFRLTTTQKTAEDKIKHLEEKLEEEHQRKLFQDKASELQTGLEISKIIMSSVSNLKHS  
KEKKKSSKKTCKIKRRPPWQICSKFGALPFVAEKMQRHRDPHILQKPFNVTETRCCLKPS  
RTTSWCKAIPDSEKSIICDNLSELLMAMQDELDQMSMEHQELLKQMKETESHVSCDDI  
ECELECLLKMEIKGEQISKLKKHQDSVCKLQKQVQNSKMSEASGIQGEDSYPKGSKNIK  
NSPRKCLTDTNLFQKNSSFHPIRVHNLQMKLRRDDIMWEQ

>sp|P31997|CEAM8\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 8 OS=Homo sapiens GN=CEACAM8 PE=1 SV=2

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTAQLTIEAVPSNAAEGKEVLLLVHNLQP  
DPRGYNWYKGETVDANRRIIGYVISNQITPGPAYSNRETIYPNASLLMRNVTRNDTGSY  
TLQVIKLNLMSEEVGTGQFSVHPETPKPSSSNNSNPVEDKDAVAFTCEPETQNTTYLWWV  
NGQSLPVSPRLQLSNGNRTLTLSSVTRNDVGPYECEIQNPASANFSDPVTNLVLYGPDAP  
TISPSDTYYHAGVNLNLSCHAAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH  
TTNSATGRNRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

>sp|Q8N7Q2|CEAS1\_HUMAN Putative uncharacterized protein CELF2-AS1 OS=Homo sapiens GN=CELF2-AS1 PE=5 SV=2

MFCLLHLCFYLANFASSIKRTHAVNGCCGLQMIALWAQSSGNADARVEEILAGEERRLAA  
LLGSQGMRFWVCLAACRAMWGLAARRGRAEDSSSPVDASKFPWRGGQHRTTMMPCLLRV  
GVFRPCHVRPTGDPSCDVQPPRLGFSRVPDTQVAFYGSQHWDPFVSVHSCFFNFQVRKI  
IFLL

>sp|A8MTT3|CEBOS\_HUMAN Protein CEBPZOS OS=Homo sapiens GN=CEBPZOS PE=1 SV=2

MARTLEPLAKKIFKGVLAELVGVFAYFLFSKMHTSQDFRQTMSKKYFFILEVYYKSTE  
KSGMYGIRELDQKTWLNKSN

>sp|P49716|CEBPD\_HUMAN CCAAT/enhancer-binding protein delta OS=Homo sapiens GN=CEBPD PE=1 SV=2

MSAALFSLDGPARGAPWPAEPAPFYEPGRAGKPGRGAEPGALGEPGAAAPAMYDDESAID  
FSAYIDSMAAVPTLELCHDELFADLFNSNHKAGGAGPLELLPGGPAPPLGPGPAAPRLK  
REPDWGDGAPGSLPAQVAACAQTVVSLAAAGQPTPTTSPEPPRSSPRQTPAPGPAREK  
SAGKRGPDGRGSPEYRQRRERNNI AVRKS RDKAKRRNQEMQQLVELSAENEKLHQRVEQL  
TRDLAGLRQFFKQLPSPFLPAAGTADCR

>sp|P08218|CEL2B\_HUMAN Chymotrypsin-like elastase family member 2B OS=Homo sapiens  
GN=CELA2B PE=2 SV=2

MIRTLTLLSTLVAGALSCGVSTYAPDMSRMLGGEARPNSWPWQVSLQYSSNGQWYHTCGG  
SLIANSWVLTAAHCISSSGIYRVM LGQHNLVAESGLAVSVSKIIVHKDWNDSQVSKGN  
DIALKLANPVSLTDKIQLACLPPAGTILPNNYPCYVTGWGRLQTNGALPDDLKQGQLLV  
VDYATCSSSGWWGSTVKTNMICAGGDVICTCNGDGGPLNCQASDGRWEVHGIGSLTSV  
LGCNYYYKPSIFTRVSNYNDWINSVIANN

>sp|P09093|CEL3A\_HUMAN Chymotrypsin-like elastase family member 3A OS=Homo sapiens  
GN=CELA3A PE=1 SV=3

MMRLRLSSLLLVAVASGYGPPSSHSSSRVHGEDAVPYSWPWQVSLQYEKSGSFYHTCGG  
SLIAPDWVVTAGHCISRDLTYQVVLGEYNLAVKEGPEQVIPINSEELFVHPLWNRSCVAC  
GNDIALIKLSRSAQLGDAVQLASLPPAGDILPNKTPCYITGWGRLYTNGPLPDKLQQARL  
PVVDYKHCSRWNWWGSTVKKTMVCAGGYIRSGCNGDGGPLNCPTEDGGWQVHGVT SFVS  
AFGCNFIWKPTVFTRVSAFIDWIEETIASH

>sp|P08861|CEL3B\_HUMAN Chymotrypsin-like elastase family member 3B OS=Homo sapiens  
GN=CELA3B PE=1 SV=3

MMRLRLSSLLLVAVASGYGPPSSRPSSRVNGEDAVPYSWPWQVSLQYEKSGSFYHTCGG  
SLIAPDWVVTAGHCISSRTYQVVLGEYDRAVKEGPEQVIPINSGDLFVHPLWNRSCVAC  
GNDIALIKLSRSAQLGDAVQLASLPPAGDILPNETPCYITGWGRLYTNGPLPDKLQEALL  
PVVDYEHCSRWNWWGSSVKKTMVCAGGDIRSGCNGDGGPLNCPTEDGGWQVHGVT SFVS  
AFGCNTRRKPTVFTRVSAFIDWIEETIASH

>sp|O95319|CEL2F\_HUMAN CUGBP Elav-like family member 2 OS=Homo sapiens GN=CEL2F PE=1 SV=1

MRCPKSAVTMRNEELLSNGTANKMNGALDHSDQDPDAIKMFVGQIPRSWSEKELKELF  
EPYGAVYQINVLDRDSQNPPQSKGCCFVTFYTRKAALAEQNALHNIKTLPGMHHP IQMKP  
ADSEKSNAVEDRKLFIGMVSKKCNENDIRVMFSPFGQIEECRILRGPDL SRGCAFTFS  
TRAMAQNAIKAMHSQTMEGCSSPIVVKFADTQKDKEQRR LQQQLAQQMQQLNTATWGNL  
TGLGGLTPQYLALLQQATSSSNLGA FSGIQQMAGMNALQLQN LATLAAAAAAQTSATST  
NANPLSTTSSALGALTSPVAASTPNSTAGAA MSLTSLGTLQGLAGATVGLNNINALAGM  
AALNGGLGATGLTNGTAGTMDALTQAYSGIQYAAAALPTLYSQSLLQQQSAAGSQKEGP  
EGANLFYIYHLPQEFQDQDILQMFMPFGNVISAKVFIDKQTNLSKCFGFVS YDNPVSAQAA  
IQAMNGFQIGMKRLKVQLKRSKNDSKPY

>sp|Q5SZQ8|CEL2F3\_HUMAN CUGBP Elav-like family member 3 OS=Homo sapiens GN=CEL2F3 PE=1 SV=1

MKEPD A I K L F V G Q I P R H L E E K D L K P I F E Q F G R I F E L T V I K D K Y T G L H K G C A F L T Y C A R D S  
A L K A Q S A L H E Q K T L P G M N R P I Q V K P A D S E S R G E D R K L F V G M L G K Q Q T D E D V R K M F E P F G T

IDECTVLRGPDGTSKGCFAVFKQTHAEAQAINTLHSSRTLPGASSSLVVKFADTEKERG  
LRRMQQVATQLGMFSPIALQFGAYSAYTQALMQQQAALVAAHSAYLSPMATMAAVQM<sub>Q</sub>HM  
AAINANGLIATPITPSSGTSTPPAIAATPVSAIPAALGVNGYSPVPTQPTGQPAPDALYP  
NGVHPYPAQSPAAPVDPLQQAYAGMQHYTAAYPAAYSLVAPAFPQPPALVAQQPPPPPPQQ  
QQQQQQQQQQQQREGPDGCNIFIYHLPQEFTDSEILQMFVPFGHVISAKVFVDRATNQS  
KCFGVVSFDNPASAAAIQAMNGFQIGMKRLKVQLKRPKDANRPY

>sp|Q03188|CENPC\_HUMAN Centromere protein C OS=Homo sapiens GN=CENPC PE=1 SV=2

MAASGLDHLKNGYRRRFCRPSRARDINTEQGQNVLEILQDCFEKSLANDFSTNSTKSVP  
NSTRKIKDTCIQSPSKECQKSHPKSVPVSSKKKEASLQFVVEPSEATNRSVQAHEVHQKI  
LATDVSSKNTPDSKKISSRNINDHHSEADEEFYLSVGSPSVLLDAKTSVSQNVIPSSAQK  
RETYTFENSVMNLPSSSTEVSVTKKRLNFDDKVMLKKIEIDNKVSDEEDKTSEGQERKPS  
GSSQNRIRDSEYEIQRAKKSFSSTLFLETVKKSESSPIVRHAATAPPHSCPPDDTKLIE  
DEFI IDESDQSFASRSWITIPRKAGSLKQRTISPAESTALLQGRKSREKHHNLPKTLAN  
DKHSHKPHPVETSQPSDKTVLDTSYALIGETVNNYRSTKYEMYSKNAEKPSRSKRTIKQK  
QRRKFMAKPAEEQLDVGQSKDENIHTSHITQDEFQRNSDRNMEEHEEMGNDCVSKQMPP  
VGSKKSSTRKDKEESKKKRFSSSESKNKLVP E E V T S T V T K S R R I S R R P S D W W V V K S E E S P V  
Y S N S S V R N E L P M H H N S S R K S T K K T N Q S S K N I R K K T I P L K R Q K T A T K G N Q R V Q K F L N A E G S  
G G I V G H D E I S R C S L S E P L E S D E A D L A K K N L D C S R S T R S S K N E D N I M T A Q N V P L K P Q T S G  
Y T C N I P T E S N L D S G E H K T S V L E E S G P S R L N N N Y L M S G K N D V D D E E V H G S D D S K Q S K V I P  
K N R I H H K L V L P S N T P N V R R T K R T R L K P L E Y W R G E R I D Y Q G R P S G G F V I S G V L S P D T I S S K  
R K A K E N I G K V N K K S N K K R I C L D N D E R K T N L M V N L G I P L G D P L Q P T R V K D P E T R E I I L M D L  
V R P Q D T Y Q F F V K H G E L K V Y K T L D T P F F S T G K L I L G P Q E E K G K Q H V G Q D I L V F Y V N F G D L L  
C T L H E T P Y I L S T G D S F Y V P S G N Y N I K N L R N E E S V L L F T Q I K R

>sp|Q9HC77|CENPJ\_HUMAN Centromere protein J OS=Homo sapiens GN=CENPJ PE=1 SV=2

MFLMPTSELNSGQNFLTQWMTNPSRAGVILNRGFP ILEADKEKRAAVDISTSFPIKGTH  
FSDSFSFINEEDSLLEEQLKLESNNPYKPKQSDKSEHTAFPCIKKGPQVAACHSAPGHQEE  
NKNDFIPDLASEFKEGAYKDPLFKKLEQLKEVQQKKQEQLKRQLEQLQRLMEEQEKLIT  
MVSGQCTLPLGLSLLPDDQSQKHRSPGNTTTGERATCCFPSYVYPDPTQEETYP SNILSHE  
QSNFCRTAHGDFVLTSKRASPNLFSEAQYQEAPVEKNNLKEENRNHPTGESILCWEKVTE  
QIQEANDKNLQKHDDSSEVANIEERP I K A A I G E R K Q T F E D Y L E E Q I Q L E E Q E L K Q K L K E  
A E G P L I K A K P K P P L K R G E G L A R F T N A K S K F Q K G K E S K L V T N Q S T S E D Q P L F K M D R Q Q L  
Q R K T A L K N K E L C A D N P I L K K D S K A R T K S G S V T L S Q K P K M L K C S N R K S L S P S G L K I Q T G K K  
C D G Q F R D Q I K F E N K V T S N N K E N V T E C P K P C D T G C T G W N K T Q G K D R L P L S T G P A S R L A A K S  
P I R E T M K E S E S S L D V S L Q K K L E T W E R E K E K E N L E L D E F L F L E Q A A D E I S F S S N S S F V L K I  
L E R D Q Q I C K G H R M S S T P V K A V P Q K T N P A D P I S H C N R S E D L D H T A R E K E S E C E V A P K Q L H S  
L S S A D E L R E Q P C K I R K A V Q K S T S E N Q T E W N A R D D E G V P N S D S S T D S E E Q L D V T I K P S T E D  
R E R G I S S R E D S P Q V C D D K G P F K D T R T Q E D K R R D V D L D L S D K D Y S S D E S I M E S I K H K V S E P  
S R S S S L S L S K M D F D D E R T W T D L E E N L C N H D V V L G N E S T Y G T P Q T C Y P N N E I G I L D K T I K R  
K I A P V K R G E D L S K S R R S R S P P T S E L M M K F F P S L K P K P K S D S H L G N E L K L N I S Q D Q P P G D N  
A R S Q V L R E K I I E L E T E I E K F K A E N A S L A K L R I E R E S A L E K L R K E I A D F E Q Q K A K E L A R I E  
E F K K E E M R K L Q K E R K V F E K Y T T A A R T F P D K K E R E E I Q T L K Q Q I A D L R E D L K R K E T K W S S T  
H S R L R S Q I Q M L V R E N T D L R E E I K V M E R F R L D A W K R A E A I E S S L E V E K K D K L A N T S V R F Q N  
S Q I S S G T Q V E K Y K K N Y L P M Q G N P P R R S K S A P P R D L G N L D K G Q A A S P R E P L E P L N F P D P E Y  
K E E E E D Q D I Q G E I S H P D G K V E K V Y K N G C R V I L F P N G T R K E V S A D G K T I T V T F F N G D V K Q V

MPDQRVIYAAAAQTTHTTYPEGLEVLHFSSGQIEKHYPDGRKEITFPDQTVKNLFPDGQ  
EESIFPDGTIVRVQRDGNKLI EFNNGQRELHTAQFKRREYPDGTVKTVYANGHQETKYRS  
GRIRVKDKEGNVLMDEL

>sp|Q9NSP4|CENPM\_HUMAN Centromere protein M OS=Homo sapiens GN=CENPM PE=1 SV=1

MSVLRPLDKLPGLNTATILLVGTEALLQQLADSMKEDCASELKVHLAKSLPLPSSVNR  
PRIDLIVFVNLHISKYSLQNTTEESLRHVDASFGLGKVCFLATGAGRESHCSIHRHTVVKL  
AHTYQSPLLYCDLEVEGFRATMAQRLVRVLQICAGHVPVGSALNLLSLLRSSEGPSLEDL

>sp|Q13352|CENPR\_HUMAN Centromere protein R OS=Homo sapiens GN=ITGB3BP PE=1 SV=2

MPVKRSLKLDGLLENSFDPSKITRKKSVITYSPTTGTCQMSLFASPTSSEEQKHNGLS  
NEKRKKLNHPSLTESKESTTKDNDEFMMLLSKVEKLSEEIMEIMQNLSSIQALEGSRELE  
NLIGISCASHFLKREMQKTKELMTKVNKQLFEKSTGLPHKASRHLDSEYFLKAILN

>sp|Q86XR8|CEP57\_HUMAN Centrosomal protein of 57 kDa OS=Homo sapiens GN=CEP57 PE=1 SV=2

MAAASVSAASGSHLSNSFAEPSRSNGSMVRHSSSPYVYPSDKPFLNSDLRRSPSKPTLA  
YPESNSRAIFSALKNLQDKIRLELERIQAEESVKTLSTRETIEYKKVLDEQIQERENSKN  
EESKHQELTSQLAAENKCNLLEKQLEYMRNMIKHAEMERTSVLEKQVSLERERQHDQT  
HVQSQLEKLDLLEQEYNKLTQMALAEKKMQELEAKLHEEEQERKRMQAKAAELQTGLET  
NRLIFEDKATPCVPNARRIKKKSKPPEKKSSRNYFGAQPHYRLCLGDMPFVAGKSTSPS  
HAVVANVQLVLHLMKQHSKALCNDRVINSIPLAQVSSRGSKSKLSTPPSSNGINEEL  
SEVLQTLQDEFGQMSFDHQLAKLIQESPTVELKDKLECELEALVGRMEAKANQITKVRK  
YQAQLEKQKLEKQKKELKATKKTLDERNSSSRSGITGTNKKDFMKLRPGEKRRKNLQL  
LKDMQSIQNSLQSSSLCWDY

>sp|Q96MT8|CEP63\_HUMAN Centrosomal protein of 63 kDa OS=Homo sapiens GN=CEP63 PE=1 SV=1

MEALLEGIQNRHGGLTSCAEELQELMKQIDIMVAHKKSEWEGRTHALETCLKIREQE  
LKSLRSQLDVTHKEVGMLHQVVEHEKIKQEMTMEYKQELKKLHEELCILKRSYEKLQKK  
QMREFRGNTKNHREDRSEIERLTAKIEEFRQKSLDWEKQRLIYQQQVSSLEAQRKALAEQ  
SEIIQAQLVNRKQKLESVELSSQSEIQHLSSKLERANDTICANELEIERLTMRVNDLVGT  
SMTVLQEQQQKEEKLRESEKLLEALQEEKRELKAALQSQENLIHEARIQKEKLQEKVKAT  
NTQHAVEAIRPREESLAEKKYTSQGQGLDSVLSQLNFTHTSEDLLQAEVTCLEGSLESV  
SATCKQLSQELMEKYELKRMEAHNNEYKAEIKKLKEQILQGEQSYSSALEGMKMEISHL  
TQELHQRDITIASTKGSSSDMEKRLRAEMQKAEDKAVEHKEILDQLESKLENRHLSEMV  
MKLELGLHEAKEISLADLQENYIEALNKLVSNNQQLQKDLMTKSQLEISTQMCKKQNDR  
IFKPTHSRTEFKNTEFKPTHGQHRHDGIKTEHYKTDLHSPRGQASDSINPMSRVLSPLS  
PQISPCSSTRSLTSYSLCKTHSLPSALDTNEANFSDTMSSESMNDQEEFISSCSLPVSPLG  
SIATRFLEEEELRSHHILRLDAHIEELKRESEKTVRQFTALK

>sp|Q76N32|CEP68\_HUMAN Centrosomal protein of 68 kDa OS=Homo sapiens GN=CEP68 PE=1 SV=2

MALGEEKAAEASEDTKAQSYGRGSCRERELDIPGPMGEQPPRLEAEGGLISPVWGAEG  
IPAPTCWIGTDPGGPSRAHQPAQSANREPVAERSEPALSGLPPATMGSGDLLSGESQV  
EKTKLSSSEFPQTLSPRTTITCSGHDADTEDPSLADLPQALDLSQQPHSSGLSCLSQ  
WKSVLSPGSAAQPSSCSISASSTGSSLQGHQERAEPGGSLAKVSSSLEPVVPQEPSSVV  
GLGPRPQWSPQPVFSGGDASGLGRRRLSFQAQYVACVLPDSLPPSPDRHSPLWNPKNKEYE  
DLLDYTYPLRPGPQLPKHLDSRVPADPVLQDSGVDLDSFVSPASTLKSPTNVSPNCPPA  
EATALPFSGPREPSLKQWPSRPVQKQGGMGLASWSQLASTPRAPGSRDARWERREPALRG  
AKDRLTIGKHLDMGSPQLRTRDRGWSPRPEREKRTSQSARRPTCTESRWKSEEEVESDD  
EYLALPARLTQVSSLVSYLGSISTLVTLPTGDIKGQSPLEVSDSDGPASFPSSSSQSQLP

PGAALQSGDPEGQNPCFLRSFVRAHDSAGEGSLGSSQALGVSSGLLKTRPSLPARLDRW  
PFSDPDVEGQLPRKGGEQGKESLVQCVKTFCCQLEELICWLYNVADVDHGTAARSNLTS  
LKSSLQLYRQFKKDIDEHQSLTESVLQKGEILLQCLENTPVLEDVLGRIAKQSGELESH  
ADRLYDSILASLDMLAGCTLIPDKPMAAMEHPCEGV

>sp|Q9Y592|CEP83\_HUMAN Centrosomal protein of 83 kDa OS=Homo sapiens GN=CEP83 PE=1 SV=2

MDTFPNFPPGGDSGLTGSQSEFQKMLIDERLRCEHHKANYQTLKAEHTRLQNEHVKLQN  
ELKHLFNEKQTQKEKLQLLLEELRGELVEKTKDLEEMKLQILTPQKLELLRAQIQELET  
PMRERFRNLDEEVEKYRAVYNKLYEHTFLKSEFEHQKEEYARILDEGKIKYESEIARLE  
EDKEELRNQLLNVDLTKDSKRVEQLAREKVYLCQKLKGLEAEVAELKAEKENSEAQVENA  
QRIQVRQLAEMQATVRSLEAEKQSANLRAERLEKELQSSSEQNTFLINKLHKAEREINTL  
SSKVLELKHNSKLEITDIKLETARAKSELERERNKIQSELDGLQSDNEILKAAVEHHKVL  
LVEKDRELIRKVQAAKEEGYQKLVVLQDEKLELENRLADLEKMKVEHDVWRQSEKDQYEE  
KLRSQMAEEITRKELQSVRLKLQQQIVTIENAEKEKNENSDLKQQISSLQIQVTSLAQS  
ENDLLSNQMLKEMVERLKQECRNFRSQAQEAQLEAEKTLEEKQIQWLEEKHKLHERITD  
REEKYNQAKEKLQRAAIAQKKRKSLENKLRLEKQVEVLEAKKEELETENQVLNRQNVP  
FEDYTRLQKRLKDIQRRHNEFRSLILVPNMPPTASINPVSFQSSAMVPSMELPFPPHMQE  
EQHQRELSLLRKRLEELETTQRKQLEELGSSGE

>sp|Q96MT4|CF195\_HUMAN Uncharacterized protein encoded by LINC01600 OS=Homo sapiens  
GN=LINC01600 PE=2 SV=2

MIYPLDLFRNIPWKQKCFASLSPEGERAFDGMELCPQPGARPALRGLQHASDCYRLLSP  
PGSGLVGTNPSPAPSPHGCCQAWSISSFTFTGPTPFKINSDAQTPCHLRSPETIFRQR  
EISNEAF

>sp|Q9H8X3|CF208\_HUMAN Putative uncharacterized protein LINC00574 OS=Homo sapiens  
GN=LINC00574 PE=5 SV=1

MSLCSACTSPASHQLLLNCQGGTVAKSHSSADAGVSLVSGRWCAWWPEHCSESMFPSQHP  
VLSSNLADSSGQGRSPAGAHPALCPFHKSPWFPHFPQILPREWSWCGPERPAGCSLGLKA  
EAALVGKK

>sp|Q5I0X4|CF226\_HUMAN Uncharacterized protein C6orf226 OS=Homo sapiens GN=C6orf226 PE=1  
SV=1

MERPRSPQCSAPASASASVTLAQLQLVQQGQELPGLEKRHIAAIHGEPTASRLPRRPKP  
WEAAALAESLPPPTLRIGTAPAEPGLVEAATAPSSWHTVGP

>sp|Q6ZU64|CFA65\_HUMAN Cilia- and flagella-associated protein 65 OS=Homo sapiens  
GN=CFAP65 PE=1 SV=2

MFTLTGCRLVEKTQKVENPSVSFASSFPLIPLLLRGKSVQKKQAESKSQIKLHTQSAPFG  
LCPKDMMLTQAPSSVVRNRNHTVNSGGSCLSASTVAIPAINSSAAMSACSTISAQP  
ASSMDTQMHSPPKQERVNKRVIWIEVAEELHWKGWELGKETTRNLVLKNRSLKLQMKY  
RPPKTKFFFTVIPQIFLSPGITLTLPIVFRPLEAKEYMDQLWFEKAEGMFCVGLRATLP  
CHRLICRPPSLQLPMCAVGDTTEAFFCLDNVGDLPFTTWEFSSPFQMLPATGLLEPGQA  
SQIKVTFQPLTAVIYEVQATCWYGAGSRQRSSIQLQAVAKCAQLLVSIKHKCPEDQDAEG  
FQKLLYFGSVAVGCTSERQIRLHNPSAVNAPFRIEISPDELAEDQAFSCPTAHGIVLPGE  
KKCVSVFFHPKTLDTRTVDYCSIMPSGCASKTLLKVVGFCRGPVSLQHYCVNFSWVNLG  
ERSEQPLWIENQSDCTAHFQFAIDCLESVFTIRPAFGTLVGKARMTLHCAFQPTHPIICF  
RRVACLIIHQDPLFLDLMGTHSDSTKPAILKPQHLTWYRTHLARGLTLYPPDILDAMLK  
EKKLAQDQNGALMIPIQDLEDMPAPQYPYIPPMTEFFFDGTSITIFPPPIISVEPVEVDF

GACPGPEAPNPVPLCLMNHTKGKIMVVWTRSDCPFWVTPESCDVPPLKSMAMRLHFQPP  
HPNCLYTVELEAFAIYKVLQSYSNIEEDCTMCPSWCLTVRARGHSYFAGFEHHIPQYSLD  
VPKLFPAVSSGEPTYRSLLLVNKDCCLLTFSLAPQRGSDVILRPTSGLVAPGAHQIILIC  
TYPEGSSWKQHTFYLLQCNASPYLKEVSMYSREEPLQLKLDTHKSLYFKPTWVGCSSTSP  
FTFRNPSRLPLQFEWRVSEQHRKLLAVQPSRGLIQPNERLTLTWTFSPLEETKYLFQVGM  
WWEAGLSPNANPAATTHYMLRLVGVLTSLSAKEKELAFGNVLVNSKQSRFLVLLNDG  
NCTLYRLLYLEQGSPEAVDNHPLALQLDRTEGSMPPRSQDTICLTACPKQRSQYSWTITY  
SLLSHRDNKAGEKQELCCVSLVAVYPLLSILDVSSMGSAEGITRKHLWRLFSLDLLNSYL  
ERDPTPCELTYKVPTRHMSQIPPVLTPLRLDFNFGAAPFKAPPSVVFALKNKSGVSLD  
WAFLLPSDQRIDVELWAEQAELNSTELHQMVRVDNCLFSISPKAGSLSPGQEQMVLEKYS  
HLFIGTDHLPVLFKVSHGRIILLNFIGVTVKPEQKYVHFTSTTHQFIPIPIGDTLPPRQI  
YELYNGGSVPVTYEVQTDVLSQVQEKNFDPHIFCCLNPKGEIQPGSTARVLWIFSPIEAK  
TYTVDVPIHILGWSALIHFGGVGYNPHMMGDTAPFHNISWDNSSIHSRLVVPQNVFL  
SQSHISLGNIPVQSKCSRLFLNNISKNEEIAFSWQPSPLDFGEVSVSPMIGVVAPEETV  
PFVVTLRASVHASFYADLVCKLYSQQLMRQYHKLQEWKDEKVRQVEFTITDMKVKKR  
TCCTACEPARKYKTLPPIKNQSVSRPASWKLQTPKEEVSWPQPPSPGMLCLGLTARA  
HATDYFLANFFSEFPCHFLHRELPRKAPREESETSEEKSPNKWGPVSKQKQLLDILT  
TIIRGLLEDKNFHEAVDQSLVEQVPYFRQFWNEQSTKFMQKNSLYLMPILPVPSSSWED  
GKGKQPKEDRPEHYPLGKKEEGEEKGEEEEEEEEEEEEEEEEEEEEELGKEEIEEKEE  
ERDEKEEKVSWAGIGPTPQESQESMQWQWQQQLNMVKEEQEQDEKEAIRRLPAFANLQ  
EALLENMIQNILVEASRGEVLTSRPRVIALPPFCVPRSLTPDTLLPTQQAENVLHPVVPL  
PTDLP

>sp|D6REC4|CFA99\_HUMAN Cilia- and flagella-associated protein 99 OS=Homo sapiens  
GN=CFAP99 PE=3 SV=1

MPRSCRERVQGSQQLRLQFPPIRKTPLTFYRPDNLVKLNTTAILREGALYQRQVEQ  
ELQRVDKLDVGAGDFSEFFEWQKKMQAKDREEQLAASECRRLLQGKLSHEEAVLARQSLMQ  
ENKQRVQEQKEQMAKMLQRAERRLREDRSRKELVEQVIEGQKNAKAAQTKLAKGRQQTV  
QEAIEESRGLLQRRQAQAEQRRRCELISQLRALETQPTRKGKLVDLTQIPGYGLEGEM  
SIVELRERLALLKENQRKEEEKRDQIIQGKHTKSQELQNMVEQISLCRAAMGRSAALRW  
EEKKALAAAPAAPSQDERVQQLRRRI SERAAERSQAALLHVSAPRTARPKPRVSPDWWE  
EPGRLLKAGAGWGRARRAGTGVPGRGWRGDRVSAAGRYAAAGAGGGGGVPARADAFPG  
QAQLEAQHWLELERSRERRLQALQQGGSGPGPARLEAA

>sp|P08603|CFAH\_HUMAN Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

MRLAKIICLMLWAICVAEDCNELPPRRNTEILTGSDQTYPEGTQAIYKCRPGYRSLG  
NVIMVCRKGEWALNPLRKCKRPCGHPGDTPFGTFTLTGGNVFEYGVKAVYTCNEGYQL  
LGEINYRECDTDGWTNDIPICEVVKCLPVTAPENGKIVSSAMEPDREYHFGQAVRVCNS  
GYKIEGDEEMHCSDDGFWSEKPKCVEISCKSPDVINGSPISQKIYKENERFQYKCNMG  
YEYSERGDVCTESGWRPLPSCEEKSCDNPIYPNGDYSPLRIKHRTGDEITYQCRNGFYP  
ATRGNTAKCTSTGWIPAPRCTLKPCDYPDIKHGGLYHENMRRPYFPVAVGKYYSYCD  
FETPSGSYWDHIHCTQDGSWPAVPCLRKCYFPYLENGYNQYGRKFVQGSIDVACHPGY  
ALPKAQTTVTCMENGWSPTPRCIRVKTCSSIDIENGFISESQYTYALKEKAKYQCKLG  
YVTADGETSGSITCGKDGWSAQPTCIKSCDIPVFMNARTKNDFTWFKLNDTLDYCHDGY  
ESNTGSTTGSIVCGYNGWSDLPICYERECELPKIDVHLVPDRKKDQYKVGVLKFSCKPG  
FTIVGPNSVQCYHFLSPDLPICKEQVQSCGPPPELLNGNVKEKTKEEYGHSEVVEYYCN

PRFLMKGPNKIQCDGEWTTLPVCIVEESTCGDIPELEHWAQLSSPPYYYGDSVEFNCS  
ESFTMIGHRSITCIHGVWTQLPQCVAIDKLLKKCKSSNLIILEEHLKNKKEFDHNSNIRYR  
CRGKEGWIHTVCINGRWDPEVNCSMAQIQLCPPPPQIPNSHNMTTTLNYRDGEKVSVLCQ  
ENYLIQEGEETCKDGRWQSIPLCVEKIPCSQPPQIEHGTINSSRSSQESYAHGTKLSYT  
CEGGFRISEENETTCYMGKWSSPPQCEGLPCKSPPEISHGVVAHMSDSYQYGEEVTKCF  
EGFGIDGPAIAKCLGEKWSHPPSCIKTDCLSLPSFENAIPMGEKKDVYKAGEQVTTYTCAT  
YYKMDGASNVTCINSRWGTGRPTCRDTSVNPPTVQNAYIVSRQMSKYPSGERVRYQCRSP  
YEMFGDEEVMCLNGNWTEPPQCKDSTGKCGPPPIDNGDITSFPLSVYAPASSVEYQCQN  
LYQLEGNKRITCRNGQWSEPPKCLHPCVISREIMENYNIALRWTAQKLYSRTGESVEFV  
CKRGYRLSSRSHLTRTTCWDGKLEYPTCAKR

>sp|Q9UEE9|CFDP1\_HUMAN Craniofacial development protein 1 OS=Homo sapiens GN=CFDP1 PE=1 SV=1

MEEFDSEDFSTSEEDDYVPSGGEYSEDDVNELVKEDEVGEEQTQKTQGKKRKAQSIPA  
RKRRQGGLSLEEEEEEDANSESEGSSEEDDAAEQEKIGSEDARKKKEDELWASFLND  
VGPKSKVPPSTQVKKGEEETEETSSSKLLVKAEELEKPKETEKVKITKVDFPAGEEVRVTK  
EVDATSKEAKSFFKQNEKEKPQANVPSALPSLPAGSGLKRSSGMSSLLGKIGAKKQKMST  
LEKSKLDWESFKEEEGIGEELAIHNRGKEGYIERKAFLDRVDHRQFEIERDLRLSKMKP

>sp|Q96N11|CG026\_HUMAN Uncharacterized protein C7orf26 OS=Homo sapiens GN=C7orf26 PE=2 SV=1

MSDIRHSLLRDALSAAKEVLYHLDIYFSSQLQSAPLPIDKGPVELLEEFVFQVPKERS  
AQPKRLNSLQELQLEIMCNYFQEQTKDSVRQIIFSSLSFPQGNKADDSRMSLLGKLVSM  
AVAVCRIPVLECAASWLQRTPVVYCVRLAKALVDDYCCLVPGSIQTLKQIFSASPRFCCQ  
FITSVTALYDLSSDDLIPMDLLEMIVTWIFEDPRLILITFLNTPIAANLPIGFLELTPL  
VGLIRWCVKAPLAYKRKKKPPLSNGHVSNKVTKDPGVGMDRDSHLLYSKLHLSVLQVLMT  
LQLHLEKNLYGRGLILFDHVMPLVEEINRLADELNPLNASQEIELSLDRLAQAQVAM  
ASGALLCTRDDLRLTCSRLPHNNLLQLVISGPVQQSPHAALPPGFYPHIHTPPLGYGAVP  
AHPAAHPALPHTPGHTFISGVTFPRPIR

>sp|PODN87|CGB7\_HUMAN Choriogonadotropin subunit beta 7 OS=Homo sapiens GN=CGB7 PE=2 SV=1

MEMFQGLLLLLLLSMGGTASREMLRPRCRPINATLAVEKEGCPVCITVNTTICAGYCPT  
MTRVLQGVLPALPQVVCNYRDVRFESIRLPGCPRGVNPVVSYAVALSCQCALCRRSTDC  
GGPKDHPLTCDDPRFQASSSSKAPPPSLPSPSRLPGPSDTPILPQ

>sp|Q8N9K7|CH079\_HUMAN Uncharacterized protein KIAA1456 isoform OS=Homo sapiens GN=KIAA1456 PE=2 SV=1

MQKQLLPLAAGQRCDYSQRESCQSPHRAESAGDRSTDNGLHRGAERSFCCALDPLPRRP  
PAGRRGRDRSSSACPGARARVWPPGACASFRDSHKRFIMRRTALFHFTPTSFHLRYTLRK  
L

>sp|Q8WYQ3|CHC10\_HUMAN Coiled-coil-helix-coiled-coil-helix domain-containing protein 10, mitochondrial OS=Homo sapiens GN=CHCHD10 PE=1 SV=1

MPRGSRSAASRPASRPAAPSAHPPAHPPPSAAAPAPAPSGQPGLMAQMATTAAAGVAVGSA  
VGHVMGSALTGAFSGGSSEPSQPAVQQAPTAPQPLQMGPCAYEIRQFLDCSTTQSDLS  
LCEGFSEALKQCKYYHGLSSLP

>sp|Q9BUK0|CHCH7\_HUMAN Coiled-coil-helix-coiled-coil-helix domain-containing protein 7 OS=Homo sapiens GN=CHCHD7 PE=1 SV=1

MPSVTQRLRDPDINCLSESDASTRCLDENNYDRERCSTYFLRYKNCRRFWNSIVMQRRK



NGVKPFMPTAAERDEILRAVGNMPLY

>sp|Q14839|CHD4\_HUMAN Chromodomain-helicase-DNA-binding protein 4 OS=Homo sapiens GN=CHD4  
PE=1 SV=2

MASGLGSPSPCSAGSEEDMDALLNNSLPPHPENEEDEEDLSETETPKLKKKKPKKP  
RDPKIPKSKRQKKERMLLCRQLGDSSGEGPEFVEEEVALRSDSEGSYTPGKKKKKKL  
GPKKEKKSkskrkeeeeeeDDDDSKPKSSAQLEDWGMEDIDHVFSEEDYRTLNYKA  
FSQFVRPLIAAKNPKIAVSKMMMLVLAkwREFSTNNPFKGSSGASVAAAAAAVAVVESM  
VTATEVAPPPPPVEVPiRAKKTKEGKGNARRKPKGSPRVPDAKKPKPKVAPLKIKLGG  
FGSKRRSSSEDDDLDESDFDASINSYSVSDGSTSRSSRSRKKLRRTKKKKKGEEV  
AVDGYETDHQDYCEVCQGGGEIILCDTCPRAYHMCVCLDPMEKAPEGKWSCPHCEKEGIQ  
WEAKEDNSEGEEIILEEVGGDLEEDDHHMEFCRVCKDGGELLCCDTCPSYHICLNPL  
PEIPNGEWLCPRCTPALKGKVQKILIKWKGQPPSPTPVPRPPDADNTPSPKPLEGRPE  
RQFFVKWQMSYWHCSWVSELQLELHCQVMFRNYQRKNDMDEPPSGDFGGDEEKSRKRKN  
KDPKFAEMEERFYRYGIKPEWMMIHRILNHSVDKKGHVHYLIKWRDLPYDQASWESEDVE  
IQDYDLFKQSYWNHRELMRGEGRPGKKLKKVKLRKLERPPETPTVDPTVKYERQPEYLD  
ATGGTLHPYQMEGLNWLRFswAQGTDTILADEMGLGKTVQTAVFLYSLYKEGHSGPFLV  
SAPLSTIINWEREFEMWAPDMYVVTYVGDKDSRAIIRENEFSFEDNAIRGGKKASRMKKE  
ASVKFHVLLTSYELITIDMAILGSIDWACLIVDEAHLKNNQSKFFRVLNGYSLQHKLLL  
TGTPLQNNLEELFHLLNFLTPERFHNLEGFLEEFADIAKEDQIKKLHMLGPHMLRRLKA  
DVFKNMPSKTELIVRVELSPMQKKYKYILTRNFEALNARGGGNQVSLNVMMDLKKCCN  
HPYLPVAAAMEAPKMPNGMYDGSALIRASGKLLLLQKMLKNLKEGGHRVLIFSQMTKMLD  
LLEDFLEHEGYKYERIDGGITGNMRQEAIDRFNAPGAQQFCFLSTRAGGLGINLATADT  
VIIYSDWNPHNDIQAFSRAHRIGQNKKVMiYRFVTRASVEERITQVAKKKMMLTHLVVR  
PGLGSKTGSMKQELDDILKFGTEELFKDEATDGGDNKEGEDSSVIHYDDKAIERLLDR  
NQDETEDELQGMNEYLSFFKVAQYVVREEEMGEEEEVEREIIKQESVDPDYWEKLLRH  
HYEQQEDLARNLKGKRIKQVNYNDGSQEDRDWQDDQSDNQSDYSVASEEGDEDfDER  
SEAPRRPSRKGLRNDKDKPLPPLARVGGNIEVLGFNARQRKAFLNAIMRYGMPPQDAFT  
TQWLVRDLRGKSEKEFKAYVSLFMRHLCEPGADGAETFADGVPREGLSRQHVLTRIGVMS  
LIRKKVQEFEHVNGRWSMPELAEVEENKKMSQPGSPSPKTPSTPGDTQPNTAPVPPA  
EDGIKIEENSLKEEESIEGEKEVKSTAPETAIECTQAPAPASEDEKVVVEPPEGEEKVEK  
AEVKERTEEPMETEPKGAADVEKVEEKSAIDLTPiVVEDKEEKKEEEEKKEVMLQNGETP  
KDLNDEKQKKNIKQRFMFNIADGGFTELHSLWQNEERAATVTKKTYEiWHRRHDYWLLAG  
IINHGYARWQDIQNDPRYAILNEPFKGEMNRGNFLEIKNKFLARRFKLLEQALVIEEQLR  
RAAYLNMSEDPSHPSMALNTRFAEVECLAESHQHLKESMAGNKPANAVLHKVLKQLEEL  
LSDMKADVTRLPATIARIPPAVRLQMSERNILSRLANRAPEPTPQQVAQQQ

>sp|Q96EP1|CHFR\_HUMAN E3 ubiquitin-protein ligase CHFR OS=Homo sapiens GN=CHFR PE=1 SV=2

MERPEEGKQSPPPQPWGRLRLGAEEGEPHVLLRKREWTIGRRRGCDLSFPSNKLVS GDH  
CRIVVDEKSGQVTLEDSTSGTVINKLKVVKKQTCPLQTDVYIYLVYRKNEPEHNVAIYLY  
ESLSEKQGMTQESFEANKENVFHGTKDTSGAGAGRGADPRVPPSSPATQVCFEPPQPSTS  
TSDLFTASASSTEPSPAGRERSSSCGSGGGGISPKGSGPSVASDEVSSFASALPDRKTA  
SFSSLEPQDQEDLEPVKKKMRGDGDLNLNGQLLVAQPRRNAQTVHEDVRAAAGKPKDMEE  
TLTCIICQDLLHDCVSLQPCMHTFCAACYSGWMERSLCPTRCPVERICKNHILNNLVE  
AYLIQHPDKSRSEEDVQSM DARNKITQDMLQPKVRRSFSDEEGSSEDLLELSDVDESSED  
ISQPYVVCRCQPEYRRQAAQPPHCPAPEGEPGAPQALGDAPSTSVSLTTAVQDYVCPLQG

SHALCTCCFQMPDRRAEREQDPRVAPQQCAVCLQPFCHLYWGCTRTGCGCLAPFCELN  
LGDKCLDGVLNNSYESDILKNYLATRGLTWKNMLTESLVALQRGVFLLSDYRVGTGDTVL  
CYCCGLRSFRELTYQYRQNPASELPVAVTSRPDCYWGRNCRTQVKAHHAMKFNHICEQT  
RFKN

>sp|Q9BZP6|CHIA\_HUMAN Acidic mammalian chitinase OS=Homo sapiens GN=CHIA PE=1 SV=1

MTKLILLTGLVLILNLQLGSAYQLTCYFTNWAQYRPGLGFRMPDNIDPCLCTHLIYAFAG  
RQNNIEITIEWNDVTLYQAFNGLKNKNSQLKTLLAIGGWNFGTAPFTAMVSTPENRQTFI  
TSVIKFLRQYEFDFGLDFDWEYPGSRGSPQDKHLFTVLVQEMREAFEQEAQINKPRLMV  
TAAVAAGISNIQSGYEIPQLSQYLDYIHVMTYDLHGSWEGYTGENSPLYKYPTDTGSNAY  
LNVDYVMNYWKDNGAPAEKLIVGFPTYGHNFILSNPSNTGIGAPTSAGAPAGPYAKESGI  
WAYYEICTFLKNGATQGWDAPQEVPIYAYQGNVWVGYNISFDIKAQWLKHNKFGGAMVW  
AIDLDDFTGTFCNQKGFPLISTLKKALGLQSASCTAPAQPIEPITAAPSGSGNGSGSSSS  
GGSSGGSGFCAVRANGLYPVANNRFAFWHCVNGVTYQQNCQAGLVFDTSCDCCNWA

>sp|Q9Y259|CHKB\_HUMAN Choline/ethanolamine kinase OS=Homo sapiens GN=CHKB PE=1 SV=3

MAAEATAVAGSGAVGGCLAKDGLQQSKCPDTPKRRRASSLSRDAERRAYQWCREYLGA  
WRRVQPEELRVYPVSGGLSNLLFRCSLPDHLPVSGEEPREVLLRLYGAILQGVDSLVL  
VMFAILAERSLGPQLYGVFPEGRLEQYIPSRPLKTQELREPVLSAAIATKMAQFHGMEMP  
FTKEPHWLFGTMYRKLQIQDLPTGLPEMNLEMYSLKDEMGNLRKLESTPSPVVFCH  
NDIQEGNILLSEPENADSLMLVDFEYSSYNYRGFDIGNHFCEWVYDYTHEEWPFYKARP  
TDYPTQEQQHLFIRHYLAEEAKGETLSQEEQRKLEEDLLEVSRYALASHFFWGLWSILQ  
ASMSTIEFGYLDYAQSRFQFYFQQKGQLTSVHSS

>sp|P59074|CHMP4\_HUMAN Putative charged multivesicular body protein 4B-like protein  
CHMP4BP1 OS=Homo sapiens GN=CHMP4BP1 PE=5 SV=1

MLSKKQEFLEKKIEQRHGTKNKPAALQALKRKKRYEKQLAQIDGTLSTIEFQQQALENAN  
TNTEVLKNMGSAAKAKAAHDNMDIDKVDELMQDIADQQELGEEISTAISKPVGFGEKSD  
EDELMAELEELEQEEPDKNLLVSGPETVPLPNVPSIALPSKPAKKRKT

>sp|Q9NRB3|CHSTC\_HUMAN Carbohydrate sulfotransferase 12 OS=Homo sapiens GN=CHST12 PE=2  
SV=2

MTKARLFRWLVLGVSFMIILLIIVYWDSSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDREL  
TADSDVDEFLDKFLSAGVKQSDLPRKETEQPPAPGSMEESVRGYDWSPRDARRSPDQGRQ  
QAERRSVLRGFCANSSALFPTKERAFFDDIPNSELSHLIVDDRHGAIYCYVPKVACTNWKR  
VMIVLSGSLLRGAPYRDPLRIPREHVHNASAHLTFNKFWRRYGKLSRHLMKVKLKKYTK  
FLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYANHTSLPASAREAFRAGLKVSF  
ANFIQYLLDPHTEKLAPFNEHWQRVYRLCHPCQIDYDFVGKLETLEDAQAQLQLLQVDR  
QLRFPPSYRNRTASSWEEDWFAKIPLAWRQQLYKLYEADFVLFYGPKPENLLRD

>sp|Q5SWW7|CJ055\_HUMAN Uncharacterized protein C10orf55 OS=Homo sapiens GN=C10orf55 PE=2  
SV=1

MFLHLDSSHSLERTKPTVVGVDTMELDEVHCCPGRDSSGGFIKGPMLQGLQGEGKLAPI  
PKPTLPSPSRLTLFVSSSQMEDHGFARRNGLTQASFIYQMPAGWSPGGFLPCQPVPT  
PVVLKPPLPPCPISWGEGSPAVDGIRRTAP

>sp|Q711Q0|CJ071\_HUMAN Uncharacterized protein C10orf71 OS=Homo sapiens GN=C10orf71 PE=1  
SV=2

MMQGNKKCTDAFSDSSSIGSVLDDADREVSSLTDRAFRSLCISEDTSFHDSYLAVSPDIT  
RQVFGTFHQRTVGHTQRKSGIWSQLPSQGTESGWAATFQQLPKYVQGEEKYPKTSPPPT

PVQRRLEVPSGLRSSNKPVSKVSTLIKSFDRTESQRCESTRPTASKPPALKNPPKFAPLP  
ENSVNFCFDSAFLTVRRVPAEVSNTHQNSYQPGRKHGEQESSKNPEMACHGSSSFLPAAN  
DTATLCESKFSPHHKPVTEGPRGKGTFLHSENSAFESWNAHQPKLLERKDTAGTVPES  
KAPKHYGDTLLREPCPPERTVSPCQVQASCSQEENRLAAGALSTSIPWGCRDPGAQVFA  
VEGKAPSSQPDSQEKPAPPPWRPKTGKKGKESLQDTLEETQTNQRGPPLYTKHNPQEQ  
FSENNALDLPVEPNEHYDPPFNISKLLTPIIPSKHALDSADSQAERTPSPPGQLNGYQE  
KEPSECQSRDSYKSKAPSLFLNLKDVRKRVKSTYSSSPLLKVLDEKTRGKVDGKQEPVSN  
GVILPNGLEESPPNELSKERPADDPTASHINPQKDPTADPSEPSADSYLTLSTAPTIAKA  
PFYVNGEAAERSSYENKEVEGELEMGPAGSSWCPDSREHRPRKHLRLCNRDPEPGGAT  
EKMKTHQLENGLSRSYSQETEPEREAGLQNTHLNQKFFPGPLSPEEDVFYSDSQSDFMP  
SLKGKAKFSTSSSDQSFASFDDQKMWFTENQREDRRKDVSAQDSQKDEKENVMRKDELQ  
YCALSNGHACLENRSQGEALQRERESVSGGRTRKASAEANFRGSWIGENKGTTFQAKD  
LTPSPSSASNRHMLFTIKDNTLRATPVIKPIMLPLLRTMSLEDSLSSGHKEELPRPEWG  
EDPGFCAPENQDILGTSTPTNTRGTRVKCMANEVMEDEPGQSSMARMEASQPAPKGNFPS  
MPLVGEGRVKAAPDAAPGLVASNCKSGSADSGKLAAPWHIPTIALPEGDIEDQPPWQP  
ENCWEEQTPGFKSHFLSTPRAGPPGRRLVPSEANSPNPGSPGESSACSPAASNIWEESS  
QAPGGPELLPEEPNQASPWASSPARVTRREDLTHALVWEGGSDPILLESAEDLRTLSPR  
GSLLDVATSPAGTSGRLELPAQLERTASKPPAVPPKTEKALRRAKKLASKRRKTDQAQEK  
HGESQEGKPCPEDLEQTQQRPLCPRERPRHNFVVRSLPPVHRHSVSGFSEPVGRRPGG  
PQSLTPLPAYPATQKVLQDPQSGEYFVFDLPLQVKIKTFYDPETGKYVKVSISSSEGASP  
EPPPDALAAPYVLYPGFQVPVVTALMPLRCSSQLSAPTFLRQGPRASAARARTQSVHES  
GLQLDPGPHGDCTPHSAGQRPHGPPQSPGEEGVEAPGLGIISTDDLEDFATEGIS

>sp|Q8WW14|CJ082\_HUMAN Uncharacterized protein C10orf82 OS=Homo sapiens GN=C10orf82 PE=2 SV=2

MEPSKTFMRNLPITPGYSGFVPFLSCQGMSEDDMNHCVKTFQEKTRQRYKEQLRELCCAV  
ATAPKLKPVNSEETVLQALHQYNLQYHPLILECKYVKKPLQEPPIPGWAGYLPRAKVTET  
GCGTRYTVMAKNKYKDFLEITERAKKAHLKPYEEIYGVSSTKTSAPSPKVLQHEELLPKY  
PDFSIPDGSCPALGRPLREDPKTPLTCGCAQRPSIPCSGKMYLEPLSSAK

>sp|Q5VZT2|CJ113\_HUMAN Putative uncharacterized protein C10orf113 OS=Homo sapiens GN=C10orf113 PE=2 SV=2

MAKSERRIYSMESMAPEISEDIGCPLAYMRESVCALLINQSFSCVAEMYIPDMNRPGKA  
ERRAEKGLRPPRKLVGETRRLQSWPTLARWLRRVSFSLYKPPIQAAPEPDGNWAKSPRL  
SLGPEGITKGKHGFKFQGIKEKFNVSKKVLKMTFL

>sp|Q8N4M7|CJ126\_HUMAN Putative uncharacterized protein C10orf126 OS=Homo sapiens GN=C10orf126 PE=2 SV=2

MNHCIQFSPQSLQRWLILPCYDLKLPIWANTTEFCPHGPRRASQDPQLLAWLPDQSLEVS  
LELYDWSMTFTLLETVEPVAVESESGIFSFWQQLIFPAEARWCFSWAQDCGLDGSF  
PGSAHTEPFGKAAAGQGSVAGKEAKKAGPGFHRQLLYLQFQKRCFLNYPELL

>sp|B7Z368|CJ142\_HUMAN Uncharacterized protein C10orf142 OS=Homo sapiens GN=C10orf142 PE=2 SV=1

MRMYSSDAHERPPSPSLGTTTPHPLPPTGSPRPRQDSAAGNSEEREPRGLRRASGVGSSC  
KRPTVCMGRQQGLPFCTVCGYRCSSPERTRGCAVGKVRVAGGGGAPGGGAGMRCCGCRE  
RNINKELELF

>sp|Q9P2W6|CK021\_HUMAN Uncharacterized protein C11orf21 OS=Homo sapiens GN=C11orf21 PE=2 SV=1

MGRTWCGMWRRRRPGRSSAVPRWPHLSSQSGVEPPDRWTGTPGWPSRDQEAPGSMMPAA  
AQPSAHGALVPPATAHEPVDHPALHWLACCCCLSLPGQLPLAIRLGWDLDEAGPSSGKL  
CPRARRWQPLPS

>sp|Q96A22|CK052\_HUMAN Uncharacterized protein C11orf52 OS=Homo sapiens GN=C11orf52 PE=1 SV=2

MGNRVCCGGSWSCPSTFQKKKKTGSQTRRTLKPQPQQLQQNLPGHETTGHYERVLQQQ  
GSQERSPLMSSESNLHYADIQVCSRPHAREVKHVHLENATEYATLRFQATPRYDSKNG  
TLV

>sp|Q495D7|CL036\_HUMAN Putative uncharacterized protein encoded by LINC01559 OS=Homo sapiens GN=LINC01559 PE=2 SV=1

MERFLNSKARRLGSCSHPAFYLLCVPDEDTSCSTIYLPLKRRADPDQLFSDLLGGTQRLW  
SNRFGNEESFPGVRVALVDTFCWIARAPPLGNPLRLEERIAWRIQRLKSGQTALIEKKKQ  
KIEEDVRHQCCQTTCDCRC

>sp|Q86WS4|CL040\_HUMAN Uncharacterized protein C12orf40 OS=Homo sapiens GN=C12orf40 PE=1 SV=3

MNWVGGSRSRVLIKQERRKQKEYFEKHLKSKMKSLGVLSPVKNSAVSLDILNLYMVNQI  
SCKKKIPETVRKPTHVNMNRDIKMPLRKHNLDTMSPHCVP SKLCDDTETNVNCQRLSS  
KEDLGPVQSQGMSYSMLHPQFSKIENCSTPSSFSVELPSNRHISKLNFTSGIAPTQK  
LAYEKKQNDQRSTVNCSDSLLSKLNKSQDVFSQSHKTTRFGTLFERLNSLGNRNLLTKSP  
AVIMDEDCRSTDEIRQSDYITEKHSIQHIWGKNGKEVSNFLEDVNQSTPNLLSENCDSFV  
SQNMINVNLNIDEQRIKKT FNKCDYDSMGDTCVVTSSDKNHVTDRCIRNIFTVPELTFSNS  
TLNKTSYPEKCPNKKYQREYNKNERNDLSTSFENDYYPSSSERKEKFENDYQEKTPQKS  
IQKYPANSMGNIPSEELHSKQSWDFGLDEILMEEGGIYSLKSKRISTKKISLDSAQSSRS  
TSYSPRPDTSCFSSSSDLPSEDEDQISQQIEDSNRMTIKTEKMNNFYVERMAKLSGDRI  
VKNDCKIHKQNFYQFSVKNNTDQFPQLQCNSAHILQNKTNDCVLQAARCDAGIQTES  
ESVMEEKLDVAIQCDLISKCTCRSDVSLCNLERCSGNIAKADTTGGQEIHKNN

>sp|Q9H3J6|CL065\_HUMAN Probable peptide chain release factor C12orf65, mitochondrial OS=Homo sapiens GN=C12orf65 PE=2 SV=1

MSTVGLFHPTPLTRICPAPWGLRLWEKLTLLSPGIAVTPVQMAGKKDYPALLSLDENEL  
EEQFVKGHGPGGQATNKTSNCVVLKHIPSGIVVKCHQTRSVDQNRKLARKILQEKVDVY  
NGENSPVHKEKREAAKKKQERKKRAKETLEKKKLLKELWESSKKVH

>sp|Q96M19|CL067\_HUMAN Putative transmembrane protein encoded by LINC00477 OS=Homo sapiens GN=LINC00477 PE=5 SV=1

MLPFFSNTTSKSVSVSSFQGPSATPLSFLFFFLLCRAGSSMTGCFTFFLDFIFFFAGVLG  
PSPMGMYSGASTLTGFFLLRFLGQLSMDLEGLEWLGRASPSWWIFFSSSPSHRVPWGSCA  
SASAPRLVPVPPSPLSKCPQHPRPRRTKGPLRKLWGPGPPFFPS

>sp|Q8TDQ1|CLM1\_HUMAN CMRF35-like molecule 1 OS=Homo sapiens GN=CD300LF PE=1 SV=3

MPLLTLYLLLFWLSGYSIVTQITGPTTVNGLERGSALTVCVYRSGWETYLKWWCRGAIWR  
DCKILVKTSGSEQEVKRDRVSIKDNQKNRTFTVTMEDLMKTDADTYWCGIEKTGNLGV  
VQVTIDPAPVTQEETSSSPTLTGHHLNDRHKLLKLSVLLPLIFTILLLLVAASLLAWRM  
MKYQQKAAGMSPEQVLQPLEGLCYADLTQLAGTSPQKATTKLSSAQVDQVEVEYVTMA  
SLPKEDISYASLTGAEDQEPTYCNMGLSSHLPGRGPEEPTEYSTISRP

>sp|Q92989|CLP1\_HUMAN Polyribonucleotide 5'-hydroxyl-kinase Clp1 OS=Homo sapiens GN=CLP1 PE=1 SV=1

MGEEANDDKKPTTKFELERETELRFEVEASQSVQLELLTGMAEIFGTELTRNKKFTFDAG  
AKVAVFTWHGCSVQLSGRTEVAYVSKDTPMLLYLNTHTALEQMRRQAEKEEERGPRVMV  
GPTDVGKSTVCRLLLNYAVRLGRRPTYVELDVGGQSVSIPGTMGALYIERPADVEEGFSI  
QAPLVYHFGSTTPGTNIKLYNKITSRLADVFNQRCEVNRASVSGCVINTCGWVKSGSYQ  
ALVHAASAFEVDVVVLDQERLYNELKRDLPHFVRTVLLPKSGGVVERSKDFRRECRDER  
IREYFYGFRGCFYPHAFNVKFSVDVKIYKVGAPTIPDSCLPLGMSQEDNQLKLPVTPGRD  
MVHLLSVSTAEGTEENLSETSVAGFIVVTSVDLEHQVFTVLSAPRPLPKNFLLIMDIR  
FMDLK

>sp|Q8NCR9|CLRN3\_HUMAN Clarin-3 OS=Homo sapiens GN=CLRN3 PE=2 SV=1

MPTTKKTLMLSSFFTSLGSFIVICSILGTQAWITSTIAVRDSASNGSIFITYGLFRGES  
SEELSHGLAEPKKKFAVLEILNNSQKTLHSVTILFLVLSLITSLSSGFTFYNSISNPY  
QTFLGPTGVYTWNGLGASFVFTMILFVANTQSNQLSEELFQMLYPATTSKGTTHSYGYS  
FWLILLVILLNIVTVTIIIFYQKARYQRKQEQRKPMAYAPRDGILF

>sp|Q5K130|CLU10\_HUMAN Putative chronic lymphocytic leukemia up-regulated protein 1  
opposite strand transcript protein OS=Homo sapiens GN=CLU10S PE=5 SV=1

MNKLGHNELKECLKTATDSLQTVQPSISQTCTSYGPALGAPLPGRNEVALLTSLPPNYEI  
SEGKPRAISAYVRAGKGNVTRRRKKTHLGNDGKKEAQEKM

>sp|Q96AJ1|CLUA1\_HUMAN Clusterin-associated protein 1 OS=Homo sapiens GN=CLUAP1 PE=1 SV=4

MSFRDLRNFTEMMRALGYPRHISMENFRTPNFGVLVSEVLLWLVKRYEPQTDIPPDVDEQ  
DRVFFIKAIAQFMATKAHIKLNKLYQADGYAVKELLKITSVLYNAMKTKGMEGSEIVE  
EDVNKFKFDLGSKIADLKAARQLASEITSGASLYDLLGMEVELREMRTAIAARPLEINE  
TEKVMRIAIAKEILTQVQKTKDLLNNVASDEANLEAKIEKRKLELERNRKRLETLSVRPC  
FMDEYEKTEEELKQKYDYLEKFQNLTYLEQQLEDHHRMEQERFEEAKNTLCLIQNKLKE  
EEKRLKSGSNDSDIDIQEDDESSELEERRLPKPQTAMEMLMQGRPGKRIVGTMQGGD  
SDDNEDSEESEIDMEDDDDEDDDEDESISLPTKPNRRVRKSEPLDESNDNF

>sp|Q86X52|CHSS1\_HUMAN Chondroitin sulfate synthase 1 OS=Homo sapiens GN=CHSY1 PE=1 SV=3

MAARGRAWLSVLLGLVLGVLASRLVLPRASELKRAQPRRRASPEGCRSGQAAASQAGG  
ARGDARGAQLWPPGSDPDGGRDRNLFVGVMTAQKYLQTRAVAAYRTWSKTIPGKVQFF  
SSEGS DTSVPIPVVPLRGVDDSYPPQKKSFMMLKYMHDHYLDKYEFMRADDDVYIKGDR  
LENFLRSLNSSEPLFLGQTGLGTEEMGKLALPGENFCMGGPGVIMSREVLRRMVPFIG  
KCLREMYTTTHEDVEVGRCVRRFAGVQCVWSYEMQQLFYENYEQNKKGYIRDLHNSKIHQA  
ITLHPNKNPPYQYRLHSYMLSRKISELRHRTIQLHREIVLMSKYSNTEIHKEDLQLGIPP  
SFMRFQPRQREEILEWEFLTGYLYSAVDGQPPRRGMDSAQREALDDIVMQVMEMINANA  
KTRGRIIDFKEIQYGYRRVNPYGAEYILDLLLLYKKHKGKMTVPVRRHAYLQQTFSKI  
QFVEHEELDAQELAKRINQESGSLSFLSNSLKKLVFPQLPGSKSEHKPKDKKINIL IPL  
SGRFD MFVRFMGNFEKTCLIPNQNVKLVLVLFNSDSNPDKAKQVELMRDYRIKYPKADMQ  
ILPVSGEFSRALALEVGSSQFNNESSLFFCDVDLVFTTEFLQRCRANTVLGQQIYFPIIF  
SQYDPKIVYSGKVPSDNHFAFTQKTGFWRNYGFGITCIYKGLVVRVGGFDVSIQGWGLED  
VDLFNKVVQAGLKTFRSQEVGVVHVHHPVFCDPNLDPKQYKMCLGSKASTYGSTQQLAEM  
WLEKNDPSYSKSSNNNGSVRTA

>sp|O43916|CHST1\_HUMAN Carbohydrate sulfotransferase 1 OS=Homo sapiens GN=CHST1 PE=1 SV=1

MQCSWKAVLLALASIAIQYTAIRTFATAKSFHTCPGLAEAGLAERLCEESPTFAYNLSRK

THILILATTRSGSSVFGQLFNQHLDVFYLFEPYHVQNTLIPRFTQGKSPADRRVMLGAS  
RDLLRSLYDCDLYFLENYIKPPPVNHTTDRIFRRGASRVLCSPVCDPPGPADLVLEEGD  
CVRKCGLLNLTVAEACRERSHVAIKTVRVPEVNDLRALVEDPRLNLKVIQLVRDPRGIL  
ASRSETFRDITYRLWRLWYGTGRKPYNLDTQLTTVCEDFSNSVSTGLMRPPWLKGKMYLV  
RYEDLARNPMKKTEEIYGFLGIPLDSHVARWIQNNTRGDPTLGKHKGTVRNSAATAEKW  
RFRLSYDIVAFAQNAQQVLAQLGYKIAASEEELKNPSVSLVEERDFRPFS

>sp|Q9GZS9|CHST5\_HUMAN Carbohydrate sulfotransferase 5 OS=Homo sapiens GN=CHST5 PE=2 SV=3

MGMRARVPKVAHSTRPPAARMWLPRFSSKTVTVLLLAQTTCLLLFIISRPGPSSPAGGE  
DRVHVLVLSSWRSGSSFLGQLFSQHPDVFYLMPEAWHVWTTLSQGSAA TLHMAVRDLMRS  
IFLCDMDVFDAYMPQSRNLSAFFNWATSRALCSPPACSAFPRGTISKQDVCKTLCTRQPF  
SLAREACRSYSHVVLKEVRFFNLQVLYPLSDPALNLRIVHLVRDPRAVLRSREAAGPIL  
ARDNGIVLGTNGKWEADPHRLRLIREVCRSHVRIAEAA TLKPPPFLRGRYRLVRFEDLAR  
EPLAEIRALYAFTGLTLPQLEAWIHNITHGSGIGKPIEAFHTSSRNARNVSQAWRHALP  
FTKILRVQEVCA GALQLLGYRPVYSADQQRDLTLDLVLPRGPDHFSWASPD

>sp|Q9GZX3|CHST6\_HUMAN Carbohydrate sulfotransferase 6 OS=Homo sapiens GN=CHST6 PE=1 SV=1

MWLPRVSSTAVTALLLAQTFLLFLVSRPGPSSPAGGEARVHVLVLSSWRSGSSVFGQLF  
NQHPDVFYLMPEAWHVWTTLSQGSAA TLHMAVRDLVRSVFLCDMDVFDAYLPWRRNLSDL  
FQWAVSRALCSPPACSAFPRGAISSEAVCKPLCARQSFTLAREACRSYSHVVLKEVRFFN  
LQVLYPLSDPALNLRIVHLVRDPRAVLRSREQTAKALARDNGIVLGTNGTWWEADPGLR  
VVREVC RSHVRIAEAA TLKPPPFLRGRYRLVRFEDLAREPLAEIRALYAFTGLSLTPQLE  
AWIHNITHGSGPGARREAFKTSRNALNVSQAWRHALPFAKIRRVQELCAGALQLLGYRP  
VYSEDEQRNALDLVLPRGLNGFTWASSTASHPRN

>sp|POC843|CI014\_HUMAN Putative uncharacterized protein encoded by LINC00032 OS=Homo sapiens GN=LINC00032 PE=5 SV=1

MHLHVQPLRAKGKRPKDTFNKMAHRKRHSVTSEFLSKVPDEVQRQYINL FVEKYLKVKCT  
EDEAVYKAKIEKKAIYERCSRRNMYVNI AVNYLKKLRDQGA

>sp|Q9P2X8|CI027\_HUMAN Putative uncharacterized protein encoded by LINC00474 OS=Homo sapiens GN=LINC00474 PE=5 SV=2

MLCVSGFTSNLYSSKKDDKMKEISRTSNWGSFSEKSGCMQTHPSMNLDCRDVTYVMNLL  
LIAHHHLLQ

>sp|Q6ZRZ4|CI047\_HUMAN Uncharacterized protein C9orf47 OS=Homo sapiens GN=C9orf47 PE=2 SV=1

MVRIWTTIMIVLILLRIGPNKPSLSGRQAPAAQTS DLVPSLFPLGLWAPGFCTWSSPD  
EDKVVWRPAWEQGPKGEPDRGLRPRKVPVPGTGNRDSGTRRRLQDATEQDPRPGNDVASAE  
TAGPPSPSGIRAQDRAPRHRRAPPARMPVAPAPSADGEPLQEQQGGLFHRTRSVYNGLEL  
NTWMKVERLFVEKFHQSFSLDN

>sp|Q5T6V5|CI064\_HUMAN UPF0553 protein C9orf64 OS=Homo sapiens GN=C9orf64 PE=1 SV=1

MDGLLNPRESSKFIAENSRDVFIDSGGVRRVAELLLAKAAGPELRVEGWKALHELNPRAA  
DEAAVNWVFVTDTLNFSFWSEQDEHKCVVRYRGKTYSGYWSLCAAVNRALDEGIPITSAS  
YYATVTL DQVRNILRSDTDVSMPLVEERHRILNETGKILLEKFGGSFLNCVRESENSAQK  
LMHLVVESFPSYRDVTLFEGKRVSFYKRAQILVADTWSVLEGGKDGCFKDISSITMFADY  
RLPQVLAHLGALKYSDDLKLLKGEMLSYGDRQEVEIRGCSLWCVELIRDCLLELIEQK  
GEKPNGEINSILLDYYLWDYAHDHREDMKGIPFHRIRCIYY

>sp|Q8N365|CIART\_HUMAN Circadian-associated transcriptional repressor OS=Homo sapiens  
GN=CIART PE=1 SV=1

MDSPSSVSSSYSSYSSSSSFPSTPVNSDFGFPDSEREDKGAHGPRPDTVQQRGGSRPSPG  
PIRCRHRSKVSQNGHTPSHPKQSGASPMAGSGAKRSRDGELETSLNTQGCTTEGDLLFA  
QKCKELQGFIPPLTDLNGLKMGRFERGLSSFQQSVAMDRIQRIVGVLQKPQMGERVLT  
LLQVEGMLKTWFPQIAAQKSSLGGGKHLTKHFPSHHSDSAASSPASPMEKMDQTLQHL  
ALKPKQPWHLTQWPAMNLTWIHTTPICNPLSSPGTISFSHGPLGTGTGIGVILFLQHGV  
QPFTHSAPTTVPPTTASPVIPGEPMKLSGEGPRCYSLPVTLPDWSYTLSPPSLPTLAR  
KMTIGHREQQRSHPPVAADAHLLNL

>sp|Q9C0C6|CIPC\_HUMAN CLOCK-interacting pacemaker OS=Homo sapiens GN=CIPC PE=1 SV=2

MERKNPSRESPPRLSAKVGKGTMMKKVARQLGMAAAESDKDSGSDGSSECLSSAEQMES  
EDMLSALGWSREDRPRQNSKTAKNAFPTLSPMVVMKNVLVKQGSSSSQLQSWTVQPSFEV  
ISAQPQLLFLHPPVSPVSPCHTGEKKSDSRNYLPILNSYTKIAPHPGKRGSLSGPEEKG  
TSGVQKKICTERLGPSSLSSSEPTKAGAVPSSPSTPAPPSAKLAEDSALQGVPSLVAGGSP  
QTLQPVSSSHVAKAPSLTFASPASVPCASDSTLHGLESNSPLSPLSANYSSPLWAAEHL  
RSPDIFSEQRQSKHRRFQNTLVVLHKSGLLEITLTKKELIRQNAQVQLDQLKEQTQLF  
IEATKSRAPQAWAKLQASLTPGSSNTGSDLEAFSDHPAI

>sp|Q86X95|CIR1\_HUMAN Corepressor interacting with RBPJ 1 OS=Homo sapiens GN=CIR1 PE=1  
SV=1

MGKSFANFMCKKDFHPASKSNIKKVWMAEQKISYDKKKQEELMQQYLKEQESYDNRLLMG  
DERVKNGLNFMYEAPPAGAKKENKEKEETEGETEYKFEWQKGAPREKYAKDDMNIRDQPF  
IQVRNVRICKCHKWGHVNTDRECPLFGLSGINASSVPTDGSGPSMHPSLIAEMRNSGFA  
LKRNVLGRNLTANDPSQEYVASEGEEDPEVEFLKSLTTKQKQKLLRKLDREKKKKKKDR  
KKKKFQKSRSKHKKHKKSSSSSSSSSSSSSTETSESSSESESNNKEKKIQRKKRKKNKCS  
GHNNSDSEKDKSKRKLHEELSSSHHNREKAKEKPRFLKHESREDSKWSHSDSDKKS  
THKHSPEKRGSEKESRRSHGREERSRRSRSPGSYKQRETRKRAQRNPGEQSRND  
SRSHGTDLYRGEKMYREHPGGTHTKVTQRE

>sp|POC7P0|CISD3\_HUMAN CDGSH iron-sulfur domain-containing protein 3, mitochondrial  
OS=Homo sapiens GN=CISD3 PE=1 SV=1

MKGAGAILRPAARGARDLNPRRDISSWLAQWFPRTPARSVVALKTPIKVELVAGKTYRWC  
VCGRSKKQPFCDGSHFFQRTGLSPLKFKAQETRMVALCTCKATQRPPYCDGTHRSERVQK  
AEVGSPL

>sp|Q9NSE2|CISH\_HUMAN Cytokine-inducible SH2-containing protein OS=Homo sapiens GN=CISH  
PE=1 SV=1

MVLCVQGPRLLAVERTGQRPLWAPSLELPKPMQPLPAGAFLEEVAEQTPAQTESEPKV  
LDPEEDLLCIAKTFSYLRESGWYGSITASEARQHLQKMPEGTFLVRDSTHPSYFTLSV  
KTTRGPTNVRIEYADSSFRLDNCLSRPRILAFPDVSVLVQHYVASCTADTRSDSPDPAP  
TPALPMPKEDAPSDPALPAPPATAVHLKLVQPFVRRSSARSLQHLCRLVINRLVADVDC  
LPLPRRMADYLRQYPFQL

>sp|Q9H0W9|CK054\_HUMAN Ester hydrolase C11orf54 OS=Homo sapiens GN=C11orf54 PE=1 SV=1

MACAEFSFHVPSLEELAGVMQKGLKDNFADVQVSVVDCPDLTKEPFTFPVKGICGKTRIA  
EVGGVPYLLPLVNQKKVYDLNIAKEIKLPGAFILGAGAGPFQTLGFNSEFMPVIQTESE  
HKPPVNGSYFAHVNPAAGCLLEKYSEKCHDFQCALLANLFASEGQPGKVIKAKRRRTG  
PLNFVTCMRETLEKHYGNKPIGMGGTFIIQKGVKSHIMPAEFSSCPLNSDEEVNKLH

YEMKAPLVCLPVFVSRDPGFDLRLEHTHFFSRHGEGGHYHYDTTPDIVEYLGYPFLPAEFL  
YRIDQPKETHSIGRD

>sp|Q7Z7J9|CK2N1\_HUMAN Calcium/calmodulin-dependent protein kinase II inhibitor 1 OS=Homo sapiens GN=CAMK2N1 PE=1 SV=1

MSEVLPGDEKLSPYGGDVGQIFSCRLQDTNNFFGAGQNKRPKLGQIGRSKRVIED  
DRIDDLNMTDKAPPGV

>sp|Q96SZ6|CK5P1\_HUMAN CDK5 regulatory subunit-associated protein 1 OS=Homo sapiens GN=CDK5RAP1 PE=1 SV=2

MHPLQCVLQVQSRSLGWGLASVWLSLRMCRAHSSLSSTMCPSPERQEDGARKDFSSRLA  
AGPTFQHFLKSASAPQEKLSSSEVEDPPPYLMMDELLGRQRKVYLETYGCQMNVDTEIAW  
SILQKSGYLRTSNLQEADVILLVTCSIREKAEQTIWNRLHQLKALKTRRPRSRVPLRIGI  
LGCMAERLKEEILNREKMVDILAGPDAYRDLPRLLAVAESGQQAANVLLSLDETYADVMP  
VQTSASATSAFVSIMRGCDNMCSYCVFTRGRERSRPIASILEEVKKLSEQVFLPPRPP  
KVLGLQGLKEVTLLGQNVNSFRDNSEVQFNSAVPTNLSRGFTTNYKTKQGGLRFAHLLDQ  
VSRVDPERMIRFTSPHPKDFPDEVQLIHERDNICKQIHLPAQSGSSRVLEAMRRGYSRE  
AYVELVHHIRESIPGVSLSSDFIAGFCGETEEDHVQTVSLLREVQYNMGFLFAYSMRQKT  
RAYHRLKDDVPPEVKLRLEELITIFREEATKANQTSVGCTQLVLVEGLSKRSATDLCGR  
NDGNLKVIFPDAEMEDVNNPGLRVRAQPGDYVLVKITSASSQTLRGHVCRTTLRDSSAY  
C

>sp|Q8IZR5|CKLF4\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 4 OS=Homo sapiens GN=CMTM4 PE=1 SV=1

MRSGEELDGFEGEASSTSMISGASSPYQPTTEPVSQRRGLAGLRCDPDYLRGALGRLKVA  
QVILALIAFICIETIMACSPCEGLYFFFEVSCSAFVVTGVLLIMFSLNLHMRIPQINWNL  
TDLVNTGLSAFLFFIASIVLAALNHRAGAEIAAVIFGFLATAAYAVNTFLAVQKWRVSVR  
QQSTNDYIRARTESRDVDSRPEIQRLDTFSYSTNVTVRKKSPTNLLSLNHWQLA

>sp|Q9NX76|CKLF6\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 6 OS=Homo sapiens GN=CMTM6 PE=1 SV=1

MENGAVYSPTTEEDPGPARGPRSGLAAYFFMGRLPLLRRLKGLQLLSLLAFICEEVVS  
QCTLCGGLYFFFEVSCSAFLLSLILIVYCTPFYERVDTTKVKSSDFYITLGTGCVFLLA  
SIIFVSTHDRTSAEIAAIVFGFIASFMLLDFITMLYEKRQESQLRKPENTTRAELTEP  
LNA

>sp|Q9UBR5|CKLF\_HUMAN Chemokine-like factor OS=Homo sapiens GN=CKLF PE=2 SV=1

MDNVQPKIKHRPFCFSVKGHVKMLRLALTVTSMTFIIAQAPPEYIVITGFEVTVILFFI  
LLYVLRDLRLMKWLFWPLLDIINSLVTTVFMLIVSVLALIPETTTLVGGGVFALVTAVC  
CLADGALIYRKLLFNPSGPYQKKPVHEKKEVL

>sp|Q8IYA6|CKP2L\_HUMAN Cytoskeleton-associated protein 2-like OS=Homo sapiens GN=CKAP2L PE=1 SV=4

MVPGPTAAAAVEERQRKLQEYLAAGKGLKSQNTKPYLKSNNCQNPSPSKSTIRPKNDV  
TNHVLPVKPKRSISIKLQPRPNTAGSQKPKLEPPKLLGKRLTSECVSSNPYKPSKSKS  
FQQCEAGSSTTGELSRKPVGSLNIEQLKTTKQQLTDQNGKCIDFMNNIHVENESLDNFL  
KETNKENLLDILTEPERKPDPLYTRSKPKTDSYNQTKNSLVPKQALGKSSVNSAVLKDR  
VNKQFVGETQSRTFPVKSQQLSRGADLARPGVKPSRTVPSHFIRTLSKVQSSKKPVVKNI  
KDIKVNRSQYERPNETKIRSYPVTEQRVKHTKPRTPYSLQGEYNNRHPNIKQDQKSSQV  
CIPQTSCVLQKSKAISQRPNLTVGRFNSAIPSTPSIRPNGTSGNKHNNNGFQQKAQTLDS



KLKKAVPQNHFLNKTAPKTQADVTTVNGTQTNPNIKKKATAEDRRKQLEEWQKSKGKTYK  
RPPMELKTKRKVIKEMNISFWKSIEKEEEEKKAQLELSSKINNTLTECLNLIIEGGVPSNE  
ILNILSSIPEAEKFAKFWICKAKLLASKGTFDVIGLYEEAIKNGATPIQELRKVVLNILQ  
DSNRTTEGITSDSLVAETSITSVEELAKKMESVKSLSPKEREQVTATPRIAKAEQHNYP  
GIKLQIGPIPRINGMPEVQDMKFITPVRRSSRIERAVSRYPEMLQEHDLVVASLDELLEV  
EETKCFIFRRNEALPVTLGFTPE

>sp|P61024|CKS1\_HUMAN Cyclin-dependent kinases regulatory subunit 1 OS=Homo sapiens  
GN=CKS1B PE=1 SV=1

MSHKQIYYSDKYDDEEFYRHVMLPKDIAKLVPKTHLMSESEWRNLGVQQSQGWVHYMIH  
EPEPHILLFRRPLPKPKK

>sp|C9JDV5|CL097\_HUMAN Putative uncharacterized protein C12orf77 OS=Homo sapiens  
GN=C12orf77 PE=2 SV=1

MIPKLATPRDISLLVIKEASSRARNNIQILDPLDHIARLTNYTLTSCFSSNKVPTMPGSL  
PTGSKQGNVQTLDSIRWMPATVPVPAPECHQKYAISTETAFTLSTFMNTEKSVKGSNADF  
TKRNPWRWFLGLIYCSLHHAMTIFI

>sp|Q2HXU8|CL12B\_HUMAN C-type lectin domain family 12 member B OS=Homo sapiens GN=CLEC12B  
PE=1 SV=1

MSEEVYATLTFQDSAGARNNRDGNLNRKRGHAPSPPIWRHAALGLVTLCMLLIGLVTL  
GMMFLQISNDINSDEKLSQLQKTIQQQQDNLSQQLGNSNNLSMEEEFKLSQISSVLKRQ  
EQMAIKLCQELIHTSDHRCNPCPKMWQWYQNSCYFTTNEEKTWANSRKDCIDKNSTLV  
KIDSLEEKDFLMSQPLLMSFFWLGLSWDSSGRSWFWEDGSPSPSLFSTKELDQINGSK  
GCAYFQKGNIYISRCSAEIFWICEKTAAPVKTEDLD

>sp|Q2KHT3|CL16A\_HUMAN Protein CLEC16A OS=Homo sapiens GN=CLEC16A PE=1 SV=2

MFGRSRSWVGGGHGKTSRNIHSLDHLKYLYHVLTKNTTVTEQNRNLLVETIRSITEILIW  
GDQNDSSVFDFFLEKNMFVFFLNILRQKSGRYVCVQLLQTLNLFENISHETSLYLLSN  
NYVNSIIVHKFDFSDEEIMAYYISFLKTLCLKLNNHTVHFFYNEHTNDFALYTEAIKFFN  
HPESMVRIAVRTITLNVYKVSLDNQAMLHYIRDKTAVPYFSNLVWFIGSHVIELDDCVQT  
DEEHRNRGKLSDLVAEHLDDLHYLNDILINCEFLNDVLDHLLNRLFLPLYVYSLENQD  
KGERPKISLPVSLYLLSQVFLIIHHAPLVNSLAEVILNGDLEMYAKTEQDIQRSSAKP  
SIRCFIKPTETLERSLEMNKHKGKRRVQKRPNYKNVGEEDEEKGPTEDAQEDAERAKGT  
EGGSKGIKTSGESEIEIMVIMERSKLSLAASTSVQEQTNDDEKSAAATCSESTQWSRP  
FLDMVYHALDSPDDYHALFVLCLLYAMSHNKGMDPEKLERTQLPVPNAAEKTYYNHPLA  
ERLIRIMNNAAPDGKIRLATLELSCLLLKQQVLSAGCIMKDVHLACLEGAREESVHLV  
RHFYKGEDIFLDMFEDEYRSMTMKPMNVEYLMMDASILLPPTGTPLTGIDFVKRLPCGDV  
EKTRRAIRVFFMLRSLSLQLRGEPETQLPLTREEDLIKTDVLDLNSDLIACTVITKDG  
GMVQRFLAVDIYQMSLVEPDVSRLGWGVVKFAGLLQDMQVTGVEDDSRALNITIHKPASS  
PHSKPFPILQATFIFSDHIRCIIAKQRLAKGRIQARRMKMQRIAALLDLPIQPTTEVLGF  
GLGSSTSTQHLPRFYDQGRRGSSDPTVQRSVFASVDKVPGFAVAQCINQHSSPSLSSQS  
PPSASGSPSGSGSTSHCDSGGTSSSSTPSTAQSPADAPMSPELPKPHLPDQLVIVNETEA  
DSKPSKNVARSAAVETASLSPSLVPARQPTISLLCEDTADTLVESLTLVPPVDPHSLRS  
LTGMPPLSTPAAACTEPVGEEAACAEVGTAE

>sp|P16619|CL3L1\_HUMAN C-C motif chemokine 3-like 1 OS=Homo sapiens GN=CCL3L1 PE=1 SV=1

MQVSTAALAVLLCTMALCNQVLSAPLAADTPTACCFSYTSRQIPQNFADYFETSSQCSK  
PSVIFLTRGRQVCADPSEEWQKYVSDLELSA

>sp|075122|CLAP2\_HUMAN CLIP-associating protein 2 OS=Homo sapiens GN=CLASP2 PE=1 SV=2

MAMGDDKSFDDDEESVDGNRPSSAASAFKVPAPKTSGNPANSARKPGSAGGPKVGGASKEG  
GAGAVDEDDFIKAFTDVPISIQIYSSRELEETLNKIREILSDDKHDWDQRANALKKIRSL  
VAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVREACITVAHLSTVLGNKFDHGAEAI  
VPTLFLNLPNSAKVMATSGCAAIRFIIRHTHVPRLIPLITSNCTSKSVPVRRRSFEFLDLL  
QEWQTHSLERHAAVLVETIKKGIHDADAEARVEARKTYMGLRNHFPGEAETLYNSLEPSY  
QKSLQTYLKSSGSVASLPQSDRSSSSQESLNRPFSKWSTANPSTVAGRVSAAGSSKASS  
LPGSLQRSRSDIDVNAAAGAKAHHAGQSVRRGRLGAGALNAGSYASLEDTSDKLDGTAS  
EDGRVRAKLSAPLAGMNAKADSRGRSRTKMVSQSQPGSRSGSPGRVLTALSTVSSGV  
QRVLVNSASAQKRSKI PRSQGCSREASPSRLSVARSSRIPRPSVSQGCSREASRESSRDT  
SPVRSFQPLASRHHRSRSTGALYAPEVYGASGPGYGISQSSRLSSSVSAMRVLNTGSDVEE  
AVADALKKPARRRYESYGMHSDDDANSDASSACRSYSSRNGSIPTYMRQTEDVAEVLN  
RCASSNWSERKEGLLGLQNLLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLET  
LVDFIQVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKALDVTRESFPNDLQFNILMRF  
TVDQTQTPSLKVKVAILKYIETLAKQMDPGDFINSSETRLAVSRVITWTTEPKSSDVRKA  
AQSVLISLFELNTPFTMLL GALPKTFQDGATKLLHNHLRNTGNGTQSSMGSPTRPTPR  
SPANWSSPLTSPNTSQTLSPSAFDYDTENMNSEDIYSSLRGVTEAIQNF SFRSQEDMN  
EPLKRDSKKDDGDSMCGGPGMSDPRAGGDATDSSQTALDNKASLLHSMPTHSSPRSRDYN  
PYNYSDSISPFNKSALKEAMFDDADQFPDDLSDHSDLVAELLKELSNHNERVEERKIA  
LYELMKTQEESFSVWDEHFKTILLLLETLGDKEPTIRALALKVLREILRHQPARFKNY  
AELTMKTLEAHKDPHKEVVRSAAEAAASVLATISPEQCIVLCPIIQTADYPINLAAIK  
MQTKVIERVSKETLNLLPEIMPLIQGYDNSESSVRKACVFCLVAVHAVIGDELKPHLS  
QLTGSKMKLLNLYIKRAQTGGGADPTTDVSGQS

>sp|Q8N2M8|CLASR\_HUMAN CLK4-associating serine/arginine rich protein OS=Homo sapiens

GN=CLASRP PE=1 SV=4

MWHEARKHERKL RGMVVDYKKRAERRREYYEKIKKDP AQFLQVHGRACKVHLDSAVALAA  
ESPVNMPWQGD TNNMIDRFDVRAHLDHIPDYTPPLTTISPEQESDERKCNYERYRGLV  
QNDFAGISEEQCLYQIYIDELYGGLQRPSEDEKKKLA EKKASIGYTYEDSTVAKVEKAAE  
KPEEEESAEEESNDEDEVIPDIDVEVDVDELNQE QVADLNKQATTYGMADGDFVRMLR  
KDKEEA EAIKHAKALEEEKAMYSGRRSRRQRREFREKRLRGRKISPPSYARRDSPTYDPY  
KRSPSESSSESRSRSRPTPGREEKITFITSFGGSDEEAAAAAAAAAASGVTTGKPPAPP  
QPGGPAPGRNASARRSSSSSSSSASRTSSSRSSSRSSSRSGGYRSGRHARSRSR  
SWSRSRSRSRRYSRSRSRGRHSGGSRDGHYSRSPARRGGYGPRRRSRSRSHSGDRYR  
RGGRLRHSSSRSSWSLSPSRSLTRSRSHSPSPSQSRSRSRSPSPSPAREK  
LTRPAASPAVGEK LKTEPAAGKETGAAPKLTPEK LKLRMQALNRQFKADKKAQEK  
MIQHEHERQEREDELAMARKIRMKERERREKERE EWERQYSRQSRSPSPRYSEYSSSR  
RRSRSRSPHYRH

>sp|Q9Y240|CLC11\_HUMAN C-type lectin domain family 11 member A OS=Homo sapiens GN=CLEC11A

PE=1 SV=1

MQAAWLLGALVVPQLLGFGHGARGAEREWE GGGGAQEEEREREALMLKHLQEALGLPAG  
RGDENPAGTVEGKEDWEMEEDQGE EEEEEATPTPSSGSPSPPTPEDIVTYILGRLAGLDA  
GLHQLHVRLHALDTRVVELTQGLRQLRNAAGDTRDAVQALQEAQGRAEREHGRLEGCLKG  
LRLGHKCFLLSRDFEAQAAQARCTARGGSLAQPADRQQMEALTRYLRAALAPYNWPVWL  
GVHRRRAEGLYLFENGQRV SFFAWHRSRPELGAQPSASPHPLSPDQPNGGTLENCVAQA

SDDGSWWHDHCQRRLYYVCEFPF

>sp|Q86T13|CLC14\_HUMAN C-type lectin domain family 14 member A OS=Homo sapiens GN=CLEC14A  
PE=1 SV=1

MRPAFALCLLWQALWPGPGGGEHPTADRAGCSASGACYSLHHATMKRQAAEEACILRGA  
LSTVRAGAE LRAVLALLRAGPGPGGSGKDLLFWVALERRRSHCTLENEPLRGFSWLSSDP  
GGLESDTLQWVEEPQRSCTARRCAVLQATGGVEPAGWKEMRCHLRANGYLCKYQFEVLC  
APRPGAASNLSYRAPFQLHSAALDFSPPGTEVSALCRGQLPISVTCTIADEIGARWDKLSG  
DVLCPCPGRYLRAGKCAELPNCLDDLGGFACECATGFELGKDGRSCVTSGEGQPTLGGTG  
VPTRRPPATATSPVPQRTWPIRVDEKLGETPLVPEQDNSVTSIPEIPRWGSQSTMSTLQM  
SLQAESKATITPSGVSISKFNSTSSATPQAFDSSSAVVIFVSTAVVVLVILTMVTLGL  
VKLCFHESPSSQPRKESMGPPGLESDPEPAALGSSSAHCTNNGVKVGDCLDRDRAEGALL  
AESPLGSSDA

>sp|Q8WXI8|CLC4D\_HUMAN C-type lectin domain family 4 member D OS=Homo sapiens GN=CLEC4D  
PE=1 SV=2

MGLEKPQSKLEGGMHPQLIPSVIAVVFILLLSVCFIASCLVTHHNSRCKRGTGVHGLEH  
HAKLKCIKEKSELKSAEGSTWNCCPIDWRAFQSNCFPLTDNKTWAESERNCSGMGAHLM  
TISTEAENFI IQFLDRRLSYFLGLRDENAKGQWRVWDQTPFNPRRVFVHKNEPDNSQGE  
NCVVLVYNQDKWAWNDVPCNFEASRICKIPGTTLN

>sp|Q9H2X3|CLC4M\_HUMAN C-type lectin domain family 4 member M OS=Homo sapiens GN=CLEC4M  
PE=1 SV=1

MSDSKEPRVQQLGLEEDPTTSGIRLFPRDFQFQIHHGKSSTGCLGHGALVLQLLSFML  
LAGVLVAILVQVSKVPSSLSQEQSEQDAIYQNLTLKAAVGELSEKSKLQEIYQELTLK  
AAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQ  
EYQELTRLKAAVGELPEKSKLQEIYQELTELKAAVGELPEKSKLQEIYQELTLKAAVGE  
LPDQSKQQQIYQELTDLKTAFERLCRHCPKDWTFQGNCFMSNSQRNWHDSVTACQEV  
AQLVVIKTAEEQNFLQLQTSRSNRFQWGLSDLNQEGTWQVWDGSPSPSFQRYWNSGEP  
NNSGNEDCAEFSGSGWNDNRCDVDNYWICKKPAACFRDE

>sp|Q6EIG7|CLC6A\_HUMAN C-type lectin domain family 6 member A OS=Homo sapiens GN=CLEC6A  
PE=2 SV=1

MMQEQQPQSTEKRGWLSRLWSVAGISIALLSACFIVSCVVTYHFTYGETGKRLSELHSY  
HSSLTCFSEGKVPWAGCCPASWKSFGSSCYFISSEKVKWSKSEQNCVEMGAHLVVFNTE  
AEQNFIVQQLNESFSYFLGLSDPQGNNNQWIDKTPYEKNVRFVHGLGEPNHSAEQCASIV  
FWKPTGWGWNVICETRRNSICEMNKIYL

>sp|Q9BXN2|CLC7A\_HUMAN C-type lectin domain family 7 member A OS=Homo sapiens GN=CLEC7A  
PE=1 SV=1

MEYHPDLENLDEDGYTLHFDSQSNTRIAVVSEKGSAAAPPWRLIAVILGILCLVILVI  
AVVLGTMAIWRNSGNTLENGYFLSRNKENHSQPTQSSLEDSVTPTKAVKTTGVLSSPC  
PPNWIIYEKSCYLFMSLSNWDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFW  
IGLSRPQTEVPWLWEDGSTFSSNLFQIRTTATQENPSPNCVWIHVSVIYDQLCSVPSYSI  
CEKKFSM

>sp|P51801|CLCKB\_HUMAN Chloride channel protein ClC-Kb OS=Homo sapiens GN=CLCNKB PE=1  
SV=3

MEEFVGLREGSSGNPVTQLQELWGCPRIIRRGIRGGLEWLKQKLFRLGEDWYFLMTLGVL  
ALVSCAMD LAVESVVRHQWLYREIGDSHLLRYLSWTVYPVALVSFSSGFSQSITPSSGG

SGIPEVKTMLAGVLEDYLDIKNFGAKVVGLSCTLACGSTLFLGKVGPFVHLSVMMAAYL  
GRVRTTTIGEPENKSKQNEMLVAAAAGVATVFAAPFSGVLFSIEVMSSHFSVWDYWRGF  
FAATCGAFMFRLAVFNSEQETITSLYKTSFRVDVPFDLPEIFFFVALGGLCGILGSAYL  
FCQRIFFGFIRNNRFSSKLLATSKPVYSALATLVLASITYPPSAGRFLASRLSMKQHLD  
LFDNHSWALMTQNSSPPWEELDPQHLWWEWYHPRFTIFGTLAFFLVMKFWMLILATTIP  
MPAGYFMPIFVYGAAIGRLFGETLSFIFPEGIVAGGITNPIMPGGYALAGAAAFSGAVTH  
TISTALLAFEVTGQIVHALPVLMAVLAANAIAQSCQPSFYDGTIVKKLPYLPRILGRNI  
GSHRVRVEHFMNHSITTLAKDMPLEEVVKVVTSTDVAKYPLVESTESQILVGIVRRAQLV  
QALKAEPSPWAPGHQCLQDILAAGCPTPEVTLKLSPETSLHEAHNLFELNLHSLFVTS  
RGRAVGCVSWVEMKKAISNLTNPPAPK

>sp|P35523|CLCN1\_HUMAN Chloride channel protein 1 OS=Homo sapiens GN=CLCN1 PE=1 SV=3

MEQSRSQRGGEQSWWGSDPQYQYMPFEHCTSYGLPSENGGLQHRLRKDAGPRHNVHPTQ  
IYGHKEQFSDREQDIGMPKKTGSSSTVDSKDEDHYSKCQDCIHRLGQVVRRLGEDGIF  
LVLLGLLMALVSWMDYVSASLSLQAYKWSYAQMPSLPLQFLVWVTFPLVLILFSALFCH  
LISPQAVGSGIPEMKTILRGVVLKEYLTMKAFVAKVVALTAGLGSGIPVGKEGPFVHIAS  
ICAAVLSKFMSVFCGVYEQPYYYSDILTVGCAVGVGCCFGTPLGGVLFSIEVTSTYFAVR  
NYWRGFFAATFSAFVFRVLAVWNKDAVTITALFRTNFRMDFFPDLKELPAFAAIGICCGL  
LGAVFVYLHRQVMLGVRKHKALSQFLAKHRLLYPGIVTFVIASTFPPGMGQFMAGELMP  
REAISTLFDNNTWVKHAGDPESLGQSAVWIHPRVNVV I I I FLFFVMKFWMSIVATTMPIP  
CGGFMPVFVLGAAGFRLVGEIMAMLPDGLFDDI IYKILPGGYAVIGAAALTGAVSHTV  
STAVICFELTGQIAHILPMMVAVILANMVAQSLQPSLYDSIIQVKKLPYLPDLGWNQLSK  
YTIFVEDIMVRDVKFVSASYTYGELRTLQTTVKTLPLVDSKDSMILLGSVERSELQAL  
LQRHLCPERRLRAAQEMARKLSELPYDGKARLAGEGLPGAPPGRPESFAFVDEDEDEDLS  
GKSELPPSLALHPSTTAPLSPEEPNGPLPGHKQQPEAPEPAGQRPSIFQSLLHCLLRAR  
PTKKKTQDSTDLVDNMSPEEIEAWEQEQLSQPVCFDSCCIDQSPFQLVEQTTLHKHTL  
FSLLGLHLAYVTSMGKLRGVLAEELQKAIEGHTKSGVQLRPPLASFRNTTSTRKSTGAP  
PSSAENWNLPEDRPGATGTGDVIAASPETPVPSPEPPLSLAPGKVEGELEEELELVESP  
GLEEELADILQGPSLRSTDEEDEDELIL

>sp|P78369|CLD10\_HUMAN Claudin-10 OS=Homo sapiens GN=CLDN10 PE=2 SV=2

MASTASEIIAFMVSISGWVLVSSTLPTDYWKVSTIDGTIVITTATYWANLWKACVTDSTGV  
SNCKDFPSMLALDGYIQACRGLMIAAVSLGFFGSIFALFGMKCTKVGGSDKAKAKIACLA  
GIVFILSGLCSMTGCSLYANKITTEFFDPLFVEQKYELGAALFIGWAGASLCIIGGVIFC  
FSISDNKTPRYTYNGATSVMSRRTKYHGGEDFKTTNPSKQFDKNAYV

>sp|Q9Y5I7|CLD16\_HUMAN Claudin-16 OS=Homo sapiens GN=CLDN16 PE=1 SV=1

MTSRTPLLVTACLAYSYSNRLQQGVRKSKRPVFSHCQVPETQKTDTRHLSGARAGVCP  
CCHPDGLLATMRDLLQYIACFFAFFSAGFLIVATWTDWVMNADDSLEVSTKCRGLWVEC  
VTNAFDGIRTCDEYDSILA EHPLKLVVTRALMITADILAGFGFLTLLGLDCVKFLPDEP  
YIKVRICFVAGATLLIAGTPGIIGSVWYAVDVYVERSTLVLHNIFLGIQYKFGWSCWLGM  
AGSLGCFLAGAVLTCCLYLFDKDVGPERNYPYSLRKAYSAAGVSMAKSYSAPRTETAKMYA  
VDTRV

>sp|Q8N6F1|CLD19\_HUMAN Claudin-19 OS=Homo sapiens GN=CLDN19 PE=1 SV=2

MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAIITAVGLYEGLWMSCASQSTG  
QVQCKLYDSLALDGHISARALMVAVLLGFVAMVLSVVGMMKCTRVGDSNPIAKGRVAI  
AGGALFILAGLCTLTAVSWYATLVTQEFPNPSTPVNARYEFGPALFVGWASAGLAVLGG

FLCCTCPEPERPNSSPQPYRPGPSAAAREPVVKLPASAKGPLGV

>sp|O15551|CLD3\_HUMAN Claudin-3 OS=Homo sapiens GN=CLDN3 PE=1 SV=1

MSMGLEITGTALAVLGWLTIVCCALPMWRVSAFIGSNIITSQNIWEGLMNCVVQSTGQ  
MQCKVYDSLLALPQDLQAARALIVVAILLAAFGLLVALVGAQCTNCVQDDTAKAKITIVA  
GVLFLLAALLTLVPVSW SANTIIIRDFYNPVVPEAQKREMAGLYVGWAAAALQLLGALL  
CCSCPPREKKYTATKVVYSAPRSTGPGASLGTGYDRKD YV

>sp|O95471|CLD7\_HUMAN Claudin-7 OS=Homo sapiens GN=CLDN7 PE=1 SV=4

MANSGLQLLGFSMALLGWVGLVACTAIPQWQMSSYAGDNIITAQAMYKGLWMDCVTQSTG  
MMSCCKMYDSVLALS AALQATRALMVVSLVLGFLAMFVATMGMKCTRCGDDKVKKARIAM  
GGGIIFIVAGLAALVACSWYGHQIVTDFYNPLIPTNIKYEF GPAIFIGWAGSALVILGGA  
LLSCSCPGNESKAGYRVPRSYPKSNSSKEYV

>sp|Q96NY7|CLIC6\_HUMAN Chloride intracellular channel protein 6 OS=Homo sapiens GN=CLIC6  
PE=2 SV=3

MAEAAEPG VAPGPQPPEVPAPLAERPGEPGAAGGEAEGPEGSEGAEEAPRGAAAVKEA  
GGGGPDRGP EAEARGTRGAHGETAEEGAPEGA EVPQGGEETSGAQQVEGASPRGAQGE  
PRGEAQREPEDSAAPERQEEAEQRPEVPEGSASGEAGDSVDAEGPLGDNIEAEGPAGDSV  
EAEGRVGDSVDAEGPAGDSVDAEGPLGDNIAEGPAGDSVDAEGRVGDSVDAEGPAGDSV  
DAEGRVGDSVEAGDPAGDGVEAGVPAGDSVEAEGPAGDSMDAEGPAGRARRVSGEPQQSG  
DGSLS PQAE AIEVAAGESAGRSPGELAWDAAEEAEVPGVKGSEEAAPGDARADAGEDRVG  
DGPQQEPGEDEERRERSPEGPREEEAAGGEEESPDSSPHGEASRGAAEPEAQLSNHLAEE  
GPAEGSGEAA RVNGRREDGEASEPRALGQEHDTL FVKVKLTALGCSRIA IKKYLRAGYD  
GESIGNCPFSQRLFMILWLKGVIFNVTTVDLKRKPADLQNLAPGTNPPFMTFDGEVKTDV  
NKIEEFLEEK LAPPRYPKLGTHQHPESNSAGNDVFAKFSAFIKNTKKDANEIHEKNLLKAL  
RKLDNYLNSPLPDEIDAYSTEDTVSGRKFLDGDELTLADCNLLPKLHI IKIVAKKYRDF  
EFPSEMTGIWRYLNNAYARDEFTNTCPADQEI EHAYS DVAKR MK

>sp|P30622|CLIP1\_HUMAN CAP-Gly domain-containing linker protein 1 OS=Homo sapiens  
GN=CLIP1 PE=1 SV=2

MSMLKPSGLKAPT KILKPGSTALKTPTAVVAPVEKTISSEKASSTPSSETQEEFVDDFRV  
GERVWVNGNKPGFIQFLGETQFAPGQWAGIVLDEPIGKNDGSVAGVRYFQCEPLKGIFTR  
PSKLTRKVQA EDEANGLQTPASRATSPLCTSTASMVSSSPSTPSNIPQKPSQPAAKEPS  
ATPPI SNLTKTASEISNLSEAGSIKKGERELKIGDRVLVGGTKAGVVRFLGETDFAKGE  
WCGVELDEPLGKNDGAVAGTRYFQCQPKYGLFAPVHKVTKIGFPSTTPAKAKANAVRRVM  
ATTSASLKRSPSASSLSSMSSVASSVSSRPSRTGLLTETSSRYARKISGTTALQEALKEK  
QQHIEQLLAERDLERA EVAKATSHVGEIEQELALARDGHDQH VLELEAKMDQLRTMVEAA  
DREKV ELLNQLEEEKRKVEDLQFRVEEESITKGDL EQKSQISED PENTQTKLEHARIKEL  
EQSLLFEKTKADKLQRELEDTRVATVSEKSRIMELEKDLALRVQEV AELRRRLESNKPAG  
DVDMSLSLLQEISSLQEKLEVTRTDHQREITSLKEHFGAREETHQKEIKALYTATEKLSK  
ENESLKS KLEHANKENS DVIALWKS KLETAIASHQQAMEELKVSFSKGLGTETA EFAELK  
TQIEKMRLDYQHEIENLQNQQDSERAAHAKEMEALRAKLMKVIKEKENSLEAIRSKLDKA  
EDQHLVEMEDTLNKLQEAEIKVKELEVLQAKCNEQTKVIDNFTSQLKATEEKLLDL DALR  
KASSEGKSEMKKLRQQLEAAEKQIKHLEIEKNAESSKASSITRELQGRELKL TNLQENLS  
EVSQVKETLEKELQILKEKFAEASEEAVSVQRSMQETVNKLHQKEEQFNMLSSDLEKLRE  
NLADMEAKFREKDEREEQLIKAKEKLENDIAEIMKMSGDNSSQLTKMND ERLKERDVEE  
LQLKLTKANENASFLQKSIEDMTVKA EQSQQEAAKKHEEEKKELERKLS DLEKKMETSHN

QCQELKARYERATSETKTKHEEILQNLQKTLLEDKLGAREENSGLLQELEELRKQAD  
KAKAAQTAEDAMQIMEQMTKEKTETLASLEDTKQTNAKLQNELDTLKENNLKNVEELNKS  
KELLTVENQKMEEFRKEIETLKQAAAQKSQQLSALQEENVKLAEELGSRDEVTSHQKLE  
EERSVLNNQLLEMKKRESKFIKDADEEKASLQKSISITSALLTEKDAELEKLRNEVTVLR  
GENASAKSLHSVVQTLESDKVLELKVKNLELQLKENKRQLSSSSGNTDTQADEDERAQE  
SQIDFLNSVIVDLQRKNQDLKMKVEMMSEALNGNGDDLNNYDSDDQEKQSKKKPRLFCD  
ICDCFDLHDTEDCPTQAQMSDEPPHSTHHGSRGEERPCEICEMFGHWATNCNDDETF

>sp|Q96DZ5|CLIP3\_HUMAN CAP-Gly domain-containing linker protein 3 OS=Homo sapiens  
GN=CLIP3 PE=1 SV=3

MTKTD PAPMAPPPRGE EEEEEEEDEPVEAPSPTQERRQKPVVHPSAPAPLPKDYAFTFF  
DPNDPACQEILFDPQTTIPELFAIVRQWVPQVQHKIDVIGNEILRRGCHVNDRDGLTDMT  
LLHYACKAGAHGVDPAAAVRLSQQLLALGADVTLRSRWTNMNALHYAAYFDVPDLVRVL  
LKGARPRVVNSTCSDFNHGSALHIAASSLCLGAACKLLEHGANPALNRKGVPAEVVPD  
PMDMSLDKAEALVAKELRTLLEAVPLSCALPKVTLPNYDNVPGNLMLSALGLRLGDRV  
LLDGQKTGTLRFCGTTEFASGQWVGVELDEPEGKNDGSGGVRYFICPPKQGLFASVSKI  
SKAVDAPPSSVTSTPRTPRMDFSRVTGKGRREHKGKKKTPSSPSLGSQQRDGAKAEVGD  
QVLVAGQKQGI VRFYGTDFAPGYWYGIELDQPTGKHDGSVFGVRYFTCPPRHGVFAPAS  
RIQRIGGSTDSPGDSVGAKKVHVQVMTQPKRTFTTVRTPKDIASENSISRLLFCCWFPWM  
LRAEMQS

>sp|Q6UXG3|CLM9\_HUMAN CMRF35-like molecule 9 OS=Homo sapiens GN=CD300LG PE=1 SV=2

MRLLVLLWGCLLLPGYALEGPEEISGFEGDTVSLQCTYREELRDHRKYWCRKGGILFSR  
CSGTIYAE EEGQETMKGRVSI RDSRQELSLIVTLWNLTLQDAGEYWCGVEKRGPDSELLI  
SLFVFPGPCCPPSPSPFTFQPLATTRLQPKAKAQQTQPPGLTSPGLYPAATTAKQKGTGAE  
APPLPGTSQYGHERTSQYTGTSPHPATSPAGSSRPPMLDSTSAEDTSPALSSGSSKPR  
VSIPMVRILAPVLVLLSLLSAAGLIAFCSHLLLWRKEAQQATETQRNEKFCLSRLTAEK  
EAPSQAPEGDVISMPPLHTSEEELGFSKFVSA

>sp|O15516|CLOCK\_HUMAN Circadian locomoter output cycles protein kaput OS=Homo sapiens  
GN=CLOCK PE=1 SV=1

MLFTVSCSKMSSI VDRDDSSIFDGLVEEDDKDAKRVSRNKSEKKRRDQFNVLIKELGSM  
LPGNARKMDKSTVLQKSIDFLRKHKEITAQSDASEIRQDWKPTFLSNEEFTQLMLEALDG  
FFLAIMTDGSI IYVESVTSLEHLPSDLVDQSIFNFIPEGEHSEVYKILSTHLESDSL  
TPEYLKSKNQLEFCCHMLRGITDPKEPSTYEVVKFIGNFKSLNSVSSAHNGFEGTIQRT  
HRPSYEDRVCFVATVRLATPQFIKEMCTVEEPNEEFTSRHSLEWKFLFDHRAPPIIGYL  
PFEVLGTSGYDYHYHVDLENLAKCHEHLMQYKGKSCYYRFLTKGQQWIWLQTHYYITYH  
QWNSRPEFIVCTHTVVSYA EVRAERRRELGIEESLPETAADKSQDSGSDNRINTVSLKEA  
LERFDHSPTPSASSRSSRKSSHTAVSDPSSTPTKIPTDSTPPRQHLP AHEKMQRRSSF  
SSQSINSQSVGSSLTQPVMSQATNLP IQGMSQFQFSAQLGAMQHLKDQLEQRTRMIEAN  
IHRQEEELRKIQEQLQMVHGQGLQMFLQSSNPGLNFGSVQLSSGNSSNIQQLAPINMQGQ  
VVPTNQIQSGMNTGHIGTTQHMIQQQLQSTSTQSQQNVLSGHSQQTSLPSQTQSTLTAP  
LYNTMVISQPAAGSMVQIPSSMPQNSTQSAAVTFTQDRQIRFSQGGQLVTKLV TAPVAC  
GAVMVPSTMLMGQVVTAYPTFATQQQQSQTL SVTQQQQQQSSQEQLTSVQQPSQAQLTQ  
PPQQFLQTSRLLHGNPSTQLILSAAFPLQQSTFPQSHHQHQHSQQQQQLSRHRTDSLDPD  
SKVQPQ

>sp|Q8IY22|CMIP\_HUMAN C-Maf-inducing protein OS=Homo sapiens GN=CMIP PE=1 SV=3

MDVTSSSGGGDPRQIEETKPLLGGDVSAPEGTKMGAVPCRRALLLCNGMRYKLLQEGDI  
QVCVIRHPRTFLSKILTSTKFLRRWEPHHLTLADNSLASATPTGYMENSVSYS AIEDVQLL  
SWENAPKYCLQLTIPGGTVLLQAANSYLRDQWFHSLQWKKKIYKYKVLNPSRWEVVLK  
EIRTLVDMALTSPLQDD SINQAPLEIVSKLLSENTNLTTQEHENIIVAIAPLLENNHPPP  
DLCEFFCKHCRERPRSMV VIEVFTPVVQRILKHNMDFGKCPRLRLFTQEYILALNELNAG  
MEVVKKFIQSMHGPTGHCPHPRVLPNLVAVCLAAIYSCYEEFINSRDNSPSLKEIRNGCQ  
QPCDRKPTLPLRLLHPSPLVSEQEATLSEARLKS VVVASSEIHVEVERTSTAKPALTASA  
GNDSEPNLIDCLMVSPACSTMSIELGPQADRTLGCYVEILKLLSDYDDWRPSLASLLQPI  
PFPKEALAHKFTKELKYV IQRFAEDPRQEVHSCLLSVRAGKDGWFQLYSPGGVACDDDG  
ELFASMVHILMGSCYKTKKFLLSLAENKLGPCMLLALRGNQTMVEILCLMLEYNIIDNND  
TQLQIISTLESTDVGKRMYEQLCDRQRELKELQRKGGPTRLTLP SKSTDADLARLLSSGS  
FGNLENLSLAFTNVSACAHLIKLPSLKQLNLWSTQFGDAGLRLLSEHLTMLQVLNLCE  
TPVTDAGLLALSSMKS LCSLNMNSTKLSADTYEDLKAKLPNLKEVDVRYTEAW

>sp|Q9BQ75|CMS1\_HUMAN Protein CMISS1 OS=Homo sapiens GN=CMISS1 PE=1 SV=2

MADDLGDEWWENQPTGAGSSPEASDGEGEDTEVMQQETVPVPVPSEKTKQKCEFLIQP  
KERKENTTKTRKRRKKKITDVLAKSEPKGPLPEDLQKLMKDYSSRRLVIELEELNLPDS  
CFLKANDLTHSLSSYLKEICPKVWKL RKNHSEKKS VMLIICSSAVRALELIRSMTAFRG  
DGKVIKLF AKHIKVQAQVKLLEKRVVHLGVGTPGRIKELVKQGGLNLSPLKFLVFDWNWR  
DQKLRRMDIPEIRKEVFELLEMGVLSLCKSES LKGLF

>sp|Q9H761|CN139\_HUMAN Putative uncharacterized protein encoded by LINC00341 OS=Homo sapiens GN=LINC00341 PE=5 SV=1

MVQQDVQGLKAQSAGLSISQHLLSGCHGNIIPNPTLSSRETAIIRRD LGFPRGSWASFL  
KRLLLSSATRNTRPAHPQHLCGDEGQSPTVPLPVLMRKGGKKTYPERLQYGHDTFKKPV L  
WSHDQKPECGEQQPASEQPARRGVVNLGLVPRHDWLRACSTLWNVPWASVAFLSFAGR  
GLLPLWQLVS

>sp|Q7Z3D6|CN159\_HUMAN UPF0317 protein C14orf159, mitochondrial OS=Homo sapiens GN=C14orf159 PE=1 SV=2

MPFTLHLRSRLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRSLAPAFERFCQVNT  
GPLPLLGQSEPEKWM LPPQGA ISETRMGHPQFWKYEF GACTGSLASLEQYSEQLKDMVAF  
FLGCSFSLEEAL EKAGLPRRDPAGHSQTTVPCVTHAGFCCPLVVTMRPIPKDKLEGLVRA  
CCSLGGEQGPVHMGDPELLGIKELSKPAYGDAMVCPGGEVPVFWPSPLTSLGAVSSCET  
PLAFASIPGCTVMTLDKAKAPPGCLTPERIPEVHHISQDPLHYSIASVSASQKIRELES  
MIGIDPGNRGIGHLLCKDELLKASLSLHARSVLITTFPPTHFNHEPPEETDGPPGAVAL  
VAFLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGSVEAAQAF LCKN  
GDPQTPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVGD  
GGNELGMGKVKEAVRRHIRHGDVIACDVEADFAVIAGVSNWGGYALACALYILYSCAVHS  
QYLRKAVGPSRAPGDQAWTQALPSV IKEEKM L GILVQH KVRSGVSGIVGMEVDGLPFHNT  
HAEMIQLVDVTTAQV

>sp|P09543|CN37\_HUMAN 2',3'-cyclic-nucleotide 3'-phosphodiesterase OS=Homo sapiens GN=CNP PE=1 SV=2

MNRGFSRKSHTFLPKIFFRKMSSSGAKDKPELQFPFLQDEDTVATLLECKTLFILRGLPG  
SGKSTLARVIVDKYRDGTMVSADAYKITPGARGAFSE EYKRLDEDLAAYCRRRDIRILV  
LDDTNHERERLEQLFEMADQYQYQVVLVEPKTAWRLDCAQLKEKNQWQLSADDLKKLKPG  
LEKDFLPLYFGWFLTKSSETLRKAGQVFLEELGNHKAFFKELRQFVPGDEPREKMDLVT

YFGKRPPGV LHCTTKFC DYGKAPGAEEYAQQDVLKKSYSKAF TLTISALFVTPKTTGARV  
ELSEQQLQLWPSVDKLSPTDNLPRGSRAHITLGC AADVEAVQTGLDLLEILRQEKGGSR  
GEEVGELSRGKLYSLGNRWMLTLAKNMEVRAIFTGYYGKGKPVPTQGSRKGGALQSCTI  
I

>sp|Q6IBW4|CNDH2\_HUMAN Condensin-2 complex subunit H2 OS=Homo sapiens GN=NCAPH2 PE=1 SV=1  
MEDVEARFAHLLQPIRDLTKNWEVDVAAQLGEYLEELDQICISFDEGKTTMNFIEAALLI  
QGSACVYSKKVEYLYSLVYQALDFISGKRRAKQLSSVQEDRANGVASSGVPQEAENEFLS  
LDDFPDSRTNVDLKNQTPSEVLI IPLLPMALVAPDEMEKNNNPLYSRQGEVLASRKDFR  
MNTCVPHPRGAFMLEPEGMSPMEPAGVSPMPGTQKDTGRTEEQPMESVCRSPVPALGFS  
QEPGPSPEGPMP LGGGEDEDAEEA VELPEASAPKAALEPKESRSPQQAALPRRYMLRER  
EGAPEPASCVKETPDPWQSLDPFDSLESKPFKKGRPYSPVPCVEEALGQKRKRKGAAKLQ  
DFHQWYLAAYADHADSRLRRKGPSFADMEVLYWTHVKEQLET LRKLQRREVAEQWLRPA  
EEDHLED SLEDLGAADDFLEPEEYMEPEGADPREAADLDAVPMSLSYEELVRRNVELFIA  
TSQKFVQETELSQRIRDWEDTVQPLLQEQQHVPFDIHTYGDQLVSRFPQLNEWCPFAEL  
VAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVD TMSLRLLTHQRAHKRFQTYAAP  
SMAQP

>sp|Q96KP4|CNDP2\_HUMAN Cytosolic non-specific dipeptidase OS=Homo sapiens GN=CNDP2 PE=1  
SV=2  
MAALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGEIRRMMEVAAADV KQLGGSVE  
LVDIGKQKLPDGSEIPLPPILLGR LGS DPQKKTVC IYGHLDVQPA ALEDGWDSEPTLVE  
RDGKLYGRGSTDDKGPVAGWINALEAYQKTGQEIPVNVRF CLEGMEESGSEGLDELIFAR  
KDTFFKVDVYVCISDNYWL GKKKPCITYGLRGICYFFIEVECSNKDLHSGVYGGSVHEAM  
TDLILLMGSLVDKRGNILIPGINEA VAAVTEEEHKL YDDIDFDIEEFAKDVGAQILLHSH  
KKDILMHRWRYP SLH GIEGAFSGSGAKTVIPRKVVGKFSIRLVPNMTPEVVGEQVTSY  
LTKKFAELRSPNEFKVYMGHGGKPWVSDFSHPHYLAGRRAMKTVFGVEPDLTREGGSIPV  
TLTFQEATGKNVMLLPVGSADDGAHSQNEKLNRYNIEGTKMLAAYLYEVSQ LKD

>sp|Q8IV77|CNGA4\_HUMAN Cyclic nucleotide-gated cation channel alpha-4 OS=Homo sapiens  
GN=CNGA4 PE=1 SV=3  
MSQDTKVKTTESSPPAPSKARKLLPVLDPSGDYYYWWLNTMVFPVMYNLIILVCRA CFPD  
LQHGYLVAVLVLDYTSDLLYLDMVVRFHTGFLEQGILVVDKGRISSRYVRTWSFFDLA  
SLMPTDVVYVRLGPHTPTLR LNRFLRAPRLFEAFDR TETRTAYPNAFRIAKMLYIFVVI  
HWN SCLYFALSRYLGFGRDAWVYPDPAQPGFERLRRQYLYSFYFSTLILTTVGDTPPPAR  
EEEYLFMVGD FLLAVMGFATIMGSMSSVIYNMNTADAAFPDHALVKKYMKLQHVNRKLE  
RRVIDWYQHLQINKKMTNEVAILQHLPERLRAEVAVSVHLSTLSRVQIFQNC EASLLEEL  
VLKLQPQTYSPGEYVCRKGDIGQEMYIIREGQLAVVADDGITYAVLGAGLYFGEISIIN  
IKGNMSGNRRTANIKSLGYSDLFCLSKEDLREVLSEYPQAQTIMEEKGREILLKMNKLDV  
NAEAAEIALQEATESRLRGLDQQLDDLQTKFARLLAELESSALKIAYRIERLEWQTREWP  
MPEDLAEADDEGEPEEGTSKDEEGRASQEGPPGPE

>sp|Q14028|CNGB1\_HUMAN Cyclic nucleotide-gated cation channel beta-1 OS=Homo sapiens  
GN=CNGB1 PE=1 SV=2  
MLGWVQRVLPQPPGT PRKTKM QEEEEVEPEPEMEAEVEPEPNPEEAETES SMPPEESFK  
EEEVAVADPSPQETKEAALTSTISLRAQGA EISEMNSPSRRVLTWLMKGVEKVIPQPVHS  
ITEDPAQILGHGSTGDTGCTDEPNEALEAQDTRPGLRLLLWLEQNLERVLPQPPKSSEVW  
RDEPAVATGAASDPAPPGRPQEMGPKLQARETPSLPTPIPLQPKKEEPKEAPAPEPQPGSQ



AQTSSLPPTDRPARLVAVWLHRLEMALQPVLHGKIGEQEPDSPGICDVQTISILPGGQV  
EPDLVLEEVEPPWEDAHQDVSTSPQGTEVVPAYEEENKAVEKMPRELSRIEEEEKEDEEEE  
EEEEEEEEEEVTEVLLDSCVVSQVGVGQSEEDGTRPQSTSDQKLWEEVGEEAKKEAEEK  
AKEEAEEVAEEAEKEPQDWAETKEEPEAEAEAASSGVPATKQHPEVQVEDTDADSCPLM  
AEENPPSTVLPPPSPAKSDDLIVPSSASGTHRKKLPSEDDEAEELKALSPAESPVVAWSD  
PTTPKDTDGQDRAASTASTNSAIINDRLQELVKLFKERTEKVKEKLIDPDVTSDEESPKP  
SPAKKAPEPAPDTKPAEAPVEEEHYCDMLCCKFKHRPWKKYQFPQSIDPLTNLMYVLWL  
FFVVMAWNWCWLIPVRWAFPYQTPDNIHHWLLMDYLCDLIYFLDITVFQTRLQFVRGGD  
IITDKKDMRNNYKSRFRKMDLLSLLPLDFLYLVKGVNPLRLRCLKYMAFFEFNSRLE  
SILSKAYVYRVIRTTAYLLYSLHLNSCLYYWASAYQGLGSTHWVYDGVGNSYIRCYFAV  
KTLITIGGLPDPKTLFEIVFQLLNYFTGVFAFSVMIGQMRDVGAATAGQTYRSCMDST  
VKYMNFKIPKSVQNRVKTWYEYTWHSQGMLDESELMVQLPDKMRLDLAIDVNYNIVSKV  
ALFQGCQRQMIQFDMKRLRSVVYLPNDYVCKKGEIGREMYIIQAGQVQVLGGPDGKSVLV  
TLKAGSVFGEISLLAVGGGNRRRTANVVAHGFTNLFILDKKDLNEILVHPESQKLLRKA  
RRMLRSNNKPKEEKSVLILPPRAGTPKLFNAALAMTGKMGKGAKGGKLAHLRARLKELA  
ALEAAAKQQLVEQAKSSQDVKGEEGSAAPDQHTHPKEAATDPPAPRTPPEPPGSPSSP  
PPASLGRPEGEEGPAEPEEHSVRICMSPGPEPGEQILSVKMPEEREKAE

>sp|095406|CNIH1\_HUMAN Protein cornichon homolog 1 OS=Homo sapiens GN=CNIH1 PE=1 SV=1  
MAFTFAAFCYMLALLLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPEYLIHA  
FFCVMFLCAAEWLTLGLNMPLLAYHIWRYMSRPVMSGPLYDPTTIMNADILAYCQKEGW  
CKLAFYLLAFFYYLYGMIYVLVSS

>sp|P51911|CNN1\_HUMAN Calponin-1 OS=Homo sapiens GN=CNN1 PE=1 SV=2  
MSSAHFNRPAYGLSAEVKNKLAQKYDHQREQLREWIEGVTGRRIGNNFM DGLKDGIIL  
CEFINKLQPGSVKKINESTQNWHLNENIGNFIKAITKYGVKPHDIFEANDLFENTNHTQV  
QSTLLALASMAKTGKNVNVGVKYAEKQERKFEPGKLREGRNII GLQMGTKNFASQQGMT  
AYGTRRHLYDPKLGTDQPLDQATISLQMGTKNGASQAGMTAPGTRQIFEPGLGMEHCDT  
LNVSLQMGSGKNGASQRGMTVYGLPRQVYDPKYCLTPEYPELGEPAHNHHAHNYNSA

>sp|Q9H9A5|CNO10\_HUMAN CCR4-NOT transcription complex subunit 10 OS=Homo sapiens  
GN=CNOT10 PE=1 SV=1

MAADKPADQGAEKHEGTGSSGITDQEKELSTNAFQAFTSGNYDACLQHLACLQDINKDD  
YKIILNTAVAEFFKSNTTTDNL RQTLNQLKNQVHSAVEEMDGLDDVENSMLYINQAVIL  
YHLRQYTEAISVGEKLYQFIEPFEEKFAQAVCFLLVDLYILTYQAEKALHLLAVLEKMIS  
QGNNKNGKNETGNNNNKDGSNHKAESGALIEAAKSKIHQYKVRAYIQMKS LKACKREIK  
SVMNTAGNSAPSLFLKSNFEYLRGNYRKAVKLLNSSNIAEHPGFMKTGECLRCMFNNLG  
CIHFAMSKHNLGIFYFKKALQENDNVCAQLSAGSTDPGKKFSGRPMCTLLTNKRYELLYN  
CGIQLLHIGRPLAAFECLIEAVQVYHANPRLWRLAECCIAANKGTSEQETKGLPSKKG I  
VQSIVGQGYHRKIVLASQSIQNTVYNDGQSSAIPVASMEFAAICLRNALLLLPEEQQDPK  
QENGAKN SNQLGGNTESSESSETCSSKSHDGD KFI PAPPSSPLRKQEL ENLKCSILACSA  
YVALALGDNL MALNHADKLLQPKLSGSLKFLGHL YAAEALISLDRISDAITHLNPENVT  
DVSLGISSNEQDQGS DKG ENEAMESSGKRAPQCYPSSVNSARTVMLFNLGSAYCLRSEYD  
KARKCLHQAASMIHPKEVPPEAILLAVYLELQNGNTQLALQIIKRNQLLP AVKTHSEVRK  
KPVFQPVHPIQPIQMPAFTTVQRK

>sp|Q9UKZ1|CNO11\_HUMAN CCR4-NOT transcription complex subunit 11 OS=Homo sapiens  
GN=CNOT11 PE=1 SV=1

MPGGGASAASGRLLTAAEQRGSREAAGSASRSGFGGSGGGRGGASGPGSGSGGPGGPAGR  
MSLTPKELSSLLSIISEEAGGGSTFEGFLSTAFHHYFSKADHFRLGSVLVMLLQQPDLLPS  
AAQRLTALYLLWEMYRTEPLAANPFAASFAHLLNPAPPARGGQEPDRPPLSGFLPPITPP  
EKFFLSQLMLAPPRELFKKTTPRQIALMDVGNMGQSVDISGLQLALAERQSELPTQSKASF  
PSILSDPDPDSSNSGFDSSVASQITEALVSGPKPIESHFRPEFIRPPPPLHICEDELAW  
LNPTDPDHAIQWDKSMCVKNSTGVEIKRIMAKAFKSPLSSPQQTQLLGELEKDPKLVYHI  
GLTPAKLPDLVENNPLVAIEMLLKLMQSSQITEYFSVLVNMDMSLHSMEEVNNRLTTAVDL  
PPEFIHLYISNCISTCEQIKDKYMQNRLVRLVCVFLQSLIRNKIINVQDLFIEVQAFCE  
FSRIREAAGLFRLLKTLDTGETPSETKMSK

>sp|A5YKK6|CNOT1\_HUMAN CCR4-NOT transcription complex subunit 1 OS=Homo sapiens GN=CNOT1  
PE=1 SV=2

MNLDLSLALSQISYLVNLTKKNYRASQQEIQHIVNRHGPEADRHLLRCLFSHVDVSGD  
GKSSGKDFHQTQFLIQECALLITKPNFISTLSYAIDNPLHYQKSLKPAPHLFAQLSKVLK  
LSKVQEVIFGLALLNSSSSDLRGFAAQFIKQKLPDLLRSYIDADVSGNQEGGFQDIAIEV  
LHLLSHLLFGQKGAFGVGQEIDAFLKTLRRDFPQERCPVVLAPLLYPEKRDILMDRIL  
PDSGGVAKTMMESSLADFMQEVGYGFCASIEECRNIIVQFGVREVTAQVARVLGMMART  
HSLTDGIPQLSISAPGSGIWSGDKDKSDGAQAHTWNVEVLIDVLKELNPSLNFKEVITYE  
LDHPGFQIRDSKGLHNVVYGIQRGLGMEVFPVDLIYRPWKHAEGQLSFIQHSLINPEIFC  
FADYPCHTVATDILKAPPEDDREIATWKSLLDIESLLRLAEVGQYEQVKQLFSFPIKHC  
PDMVLALLQINTSWHTLRHELISTLMPIFLGNHPNSAIIHYAWHGQGSPIRQLIMH  
AMAEWYMRGEQYDQAKLSRILDVAQDLKALSMLLNGTPFAFVIDLAALASRREYLKLDKW  
LTDKIREHGEPFIQACMTFLKRRCPSELGGLAPEKDQPKSAQLPPETLATMLACLQACAG  
SVSQELSETILTMVANCNSVMNKARQPPPGVMPKGRPPSASSLDAISPVIDPLAGMTSL  
SIGGSAAPHTQSMQGFPPNLGSAFSTPQSPAKAFPPLSTPNQTTAFSGIGGLSSQLPVGG  
LGTGSLTGIGTGALGLPAVNNDPFVQRKLGTSGLNQPTFQQSKMKPSDLSQVWPEANQHF  
SKEIDDEANSYFQRIYNHPPHPTMSVDEVLEMLQRFKDSTIKREREVFNCLRNLFEEYR  
FFPQYPDKELHITACLFGGIEKGLVTYMALGLALRYVLEALRKPFGSKMYFYGIAALDR  
FKNRLKDYPQYCHLASISHFMQFPHHLQEYIEYGQQSRDPPVKMQGSITTPGSIALAQA  
QAQAQVPKAPLAGQVSTMTTSTTTTVAKTVTVTTRPTGVSFKKDVPPSINTTNIDTLLV  
ATDQTERIVEPPENIQEKIAFIFNNLSQSNMTQKVEELKETVKEEFMPWVSQYLVMKRVS  
IEPNFHSLSYNFLDTLKNPEFNKMLNETYRNKIVLLTSDKAAANFSDRSLLKNLGHWLG  
MITLAKNKPILHTDLVDKSLLEAYVKGQQLLYVVPFVAKVLESSIRSVVFRPPNPWTM  
AIMNVLAELHQEHLKLNLFKEIEVLCKNLALDINELKPGNLLKDKDRLKNLDEQLSAPK  
KDVKQPEELPITTTTTSTTPATNTTCTATVPPQPQSYHDINVYSLAGLAPHITLNPTI  
PLFQAHPQLKQCVRAIERAVQELVHPVVDRSIKIAMTTCEQIVRKDFALDSEESRMRIA  
AHHMMRNLTAGMAMITCREPLMSISTNLKNSFASALRTASPQQREMMDQAAAQLAQDNC  
ELACCFIQKTAVEKAGPEMDKRLATEFELRKHARQEGRRYCDPVVLTQYQERMPEQIRLK  
VGGVDPKQLAVYEEFARNVPGFLPTNDLSQPTGFLAQPMQAWATDDVAQIYDKCITELE  
QHLHAIPPTLAMNPQAALRSLLLEVVLNRNSRDAIAALGLLQKAVEGLLDATSGADADL  
LLRYRECHLLVLKALQDGRAYGSPWCNKQITRCLIECRDEYKYNVEAVELLIRNHLVNMQ  
QYDLHLAQSMENGLNYMAVAFAMQLVKILLVDERSVAHVTEADLFHTIETLMRINAHSRG  
NAPEGLPQLMEVVRNRYEAMIDRAHGGPNFMMHSGISQASEYDDPPGLREKAHEYLLREWV  
NLYHSAAGRDSTKAFSAFVGQMHQQGILKTDDLITRFFRLCTEMCVEISYRAQAEQQHN  
PAANPTMIRAKCYHNLDAFVRLIALLVKHSGEATNTVTKINLLNKVLGIVVGVLQDHDV

RQSEFQQLPYHRIFIMLLLELNAPEHVLETINFQTLTAFCNTHILRPTKAPGFVYAWLE  
LISHRIFIARMLAHTPQQKGWPMYAQLLIDLFKYLAFLRNVELTKPMQILYKGTLRVLL  
VLLHDFPEFLCDYHYGFCDIVPPNCIQLRNILSAFPRNMRLPDPFTPNLKVDMLSEINI  
APRILTNFTGVMPQFKKDLDSYLKTRSPVTFLSDLRSNLQVSNPGNRYNLQLINALVL  
YVGTQAIHINHGKSTPSMSTITHSAHMDIFQNLAVDLDTGRYLFLNAIANQLRYPNSH  
THYFSCTMLYLFAEANTEAIEQITRVLLERLIVNRPHPWGLLITFIELIKNPAFKFWNH  
EFVHCAPEIEKLFQSVACCMGQKQAQQVMEGTGAS

>sp|Q9UIV1|CNOT7\_HUMAN CCR4-NOT transcription complex subunit 7 OS=Homo sapiens GN=CNOT7  
PE=1 SV=3

MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNVYAMDTEFPGVVARPIGEFRSNADY  
QYQLLRNCVNDLLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTSG  
IQFKKHEEEGIETQYFAELMTSGVVLCGKWLFSHSGYDFGYLIKILTNSNLPEEELD  
FFEILRLFFPVIYDVKYLMSCKNLKGGLEVAEQLELERIGPQHQAGSDSLLTGMAFFK  
MREMFEDHIDDAKYCGHLYGLSGSSYVQNGTGNAYEEEEANKQS

>sp|Q9Y2B0|CNPY2\_HUMAN Protein canopy homolog 2 OS=Homo sapiens GN=CNPY2 PE=1 SV=1

MKGWGWLALLLGALLGTAWARRSQDLHCGACRALVDELEWEIAQVDPKKTIQMGSFRINP  
DGSQSVVEVPYARSEAHLELLEEICDRMKEYGEQIDPSTHRKNYVRVVGNGESSELDL  
QGIRIDSDISGTLKFACESIVEEYEDELIEFFSREADNVKDKLCSKRTDLCDHALHISHD  
EL

>sp|P18545|CNRG\_HUMAN Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase  
subunit gamma OS=Homo sapiens GN=PDE6G PE=1 SV=1

MNLEPPKAEFRSATRVAGGPVTPRKGPFFKQQRQTRQFKSKPPKKGVQGFDDIPGMEGL  
GTDITVICPWEAFNHLELHELAQYGII

>sp|Q9BV29|C0057\_HUMAN Uncharacterized protein C15orf57 OS=Homo sapiens GN=C15orf57 PE=1  
SV=2

MKMFESADSTATRSGQDLWAEICSLPNPEQEDGANNAFSDSFVDSCPEGEGQREVADFA  
VQPAVKPWAPLQDSEVYLASLEKKLRRIKGLNQEVTSKDMRLTLAQAKKECWDRFLQEKL  
ASEFFVDGLDSESTLEHFKRWLPQDKVAVSTEEVQYLIPPEQVEKPVAEDEPAAGDKP  
AAAEQ

>sp|P02452|C01A1\_HUMAN Collagen alpha-1(I) chain OS=Homo sapiens GN=COL1A1 PE=1 SV=5

MFSFVDLRLLLLLAATALLTHGQEEGQVEGQDEDIPPITCVQNGRLRYHDRVWKPEPCRI  
CVCNDGKVLCDDEVICDETKNCPGAEVPEGECCPVCPDGSESPTDQETTGVGPKGDTGPR  
GPRGPAGPPGRDIPGQPLPGPPGPPGPPGPGGPNFAPQLSYGYDEKSTGGISVPGP  
MGPSGPRGLPGPPGAPGPQGFQPPGEPGEPGASGPMGRGPPGPPGKNGDDGEAGKPGR  
PGERGPPGPQGARGLPGTAGLPGMKGHRGFSGLDGAKGADAGPAGPKGEPGSPGENGAPGQ  
MGPRGLPGERGRPGAPGPAGARGNDGATGAAGPPGPTGPAGPPGFPAGVGAKEAGPQGP  
RGSEGPQGVRGEPGPPGAGAAGPAGNPGADGQPGAKGANGAPGIAGAPGFPAGRGPSGP  
QGGPGPPGPKNGSGEPGAPGSKGDTGAKGEPGPVGVQPPGPAGEEGKRGARGEPTGL  
PGPPGERGGPGSRGFPAGDVAGPKGPAGERGSPGAPGKSPGEAGRPGEAGLPGAKGL  
TGSPGSPGPDGKTGPPGAPQDGRPGPPGPPGARGQAGVMGFPGPKGAAGEPGKAGERGV  
PGPPGAVGPAGKDGEAGAGPPGAPGAGERGEQGPAGSPGFQGLPGAPPPGEAGKPGE  
QGVPGDLGAPGSPGARGERGFPGERGVQPPGPAGPRGANGAPGNDGAKGDAGAPGAPGS  
QGAPGLQGMPGERGAAGLPGPKGDRGDAGPKGADGSPGKDGVRGLTGPIGPPGPAGAPGD  
KGESGSPGPAGPTGARGAPGDRGEPGPPGPAGFAGPPGADGQPGAKGEPGDAGAKGDAGP

PGPAGPAGPPGPIGNVGAPGAKGARGSAGPPGATGFPGAAGRVGPPGPSGNAGPPGPPGP  
AGKEGGKGPRGETGPAGRPGEVGGPPGPPGAGEKGSFGADGPAGAPGTGPGQGIAGQRGV  
VGLPGQRGERGFPLPGPSGEPGKQGPSGASGERGPPGPMGPPGLAGPPGESGREGAPGA  
EGSPGRDGSFGAKGDRGETGPAGPPGAPGAPGAPGVPVGPAGKSGDRGETGPAGPTGVPVGP  
VGARGPAGPQGPRGDKGETGEQGDRIKGHGRFSGSLQPPGPPGSPGEQGPSGASGPAGP  
RGPPGSAGAPGKDGLNLPGPIGPPGPRGRTGDAGVGGPPGPPGPPGPPGPPSAGFDFSF  
LPQPPQEKAHDGGYYRADDANVVRDRDLEVDTTLSLSQQIENIRSPEGSRKNPARTCR  
DLKMCHSDWKSGEYWIDPNQGCNLDAIKVFCNMETGETCVYPTQPSVAQKNWYISKNPKE  
KRHWVFGESMTDGFQFEYGGQSDPADVAIQLTFLRLMSTEASQNTYHCKNSVAYMDQQ  
TGNLKKALLLQGSNEIEIRAEGNSRFTYSVTVDGCTSHTGAWGKTVIEYKTTKTSRLPII  
DVAPLDVGAPDQEFGFDVGPVCFL

>sp|Q6ZVT6|CC067\_HUMAN Uncharacterized protein C3orf67 OS=Homo sapiens GN=C3orf67 PE=2  
SV=2

MIKRKIWCNLCIDLVAFTSEIFKGAVFQSLDGIVVSANCKLRKIFTLSKPKQDTADKDAV  
YGVPFSTDEPTDIIPRSCQLMTDVPHTVQLLNMTKLRLQTEIKFGGHLPLRSAESDQFINRG  
TSITRNSKNQDVCHIAFGSKVLGPPPLSGRRNNMKISSETVRSVSGSKNNRSCQPSTVEKC  
VNGTEMSALLIPESSEEQGNKENIHQIKQTVPIHAANLHIMHPHPPEPSADKNNRRRLR  
LKSTSRERTETPSGSSGNRIEDKASTILTTVSQQGAELLSGTLGPQSPDQSDIEWIFP  
ENADHISYLASSRQSLLLGDDSCNPSTLWLEASKESEHDQQAESQSVPKDIFTFSSRPR  
SAPHGKTQTSPEELSFILDLKEDNSVTSRDTQSEDDFYGGDSSEEGNHSIQSGRGPTTG  
PSELQTLTLESLGKAARKTSKEYLRSAYTEAGATESQDSSMEQIDRNNEFMSLLPTTCL  
SPTGRRCGSCQKTPEPVIKAKDLSAQQVPASLNKTSLEISGERLSSIPASEYDWRNYQ  
PSQMSSESLQMLASLRWQQNEELEDAGTSHGLSASQVDNCNVSISTSSDDTTTWNLSCLPP  
PVNQGRHYQKEMNPPSPSNPRDWLNLSPPIVPPSQPAEQRPDSCELSVQGEEDLSVE  
EDEEVLTLTYDPCNLNCFDPQTGKYYELV

>sp|O75794|CD123\_HUMAN Cell division cycle protein 123 homolog OS=Homo sapiens GN=CDC123  
PE=1 SV=1

MKKEHVLHCQFSAWYPFRGVITIKSVILPLPQNVKDYLLDDGTLVVSGRDDPPTHSQPDS  
DDEAEIEQWSDDENTATLTAFEPFATKVQEAINSLGGSVFPKLNWSAPRDAYWIAMNS  
SLKCKTSLDIFLLFKSSDFITRDFTQPFIHCTDDSPDPCIEYELVLRKWCELIPGAEFRC  
FVKENKLIGISQRDYTYQYDHISKQKEEIRRCIQDFFKKHIQYKFLDEDFVFDIYDRSRG  
KVWLIDFNPFGEVTDLSLLFTWEELISENNLNGDFSEVDAQEQDSPAFRCTNSEVTVQPSP  
YLSYRLPKDFVDLSTGEDAHKLIDFLKLKRNQVEDD

>sp|P06729|CD2\_HUMAN T-cell surface antigen CD2 OS=Homo sapiens GN=CD2 PE=1 SV=2

MSFPCKFVASFLIFNVSSKGAVSKEITNALETWGALGQDINLDIPSFQMSDDIDDIKWE  
KTSDKKKIAQFRKEKETFEKEDTYKLFKNGTLKIKHLKTDDQDIYKVSIDYTKGKNVLEK  
IFDLKIQERVSKPKISWTCINTLTCEVMNGTDPELNLYQDGKHLKLSQRVITHKWTTSL  
SAKFKCTAGNKVSKESSVEPVSCPEKGLDIYLIIGICGGGSLLMVFVALLVFYITKRKKQ  
RSRRNDEELETRAHRVATEERGRKPHQIPASTPQNPAQSHPPPPGHRSQAPSHRPPPP  
GHRVQHQPQRPPAPSGTQVHQKGPPLPRPRVQPKPPHGAENSLSPSSN

>sp|P16671|CD36\_HUMAN Platelet glycoprotein 4 OS=Homo sapiens GN=CD36 PE=1 SV=2

MGCDRNCGLIAGAVIGAVLAVFGGILMPVGDLLIQKTIKKQVVEEGTIAFKNWVKTGTE  
VYRQFWIFDVQNPQEVMMSSNIQVKQRGPYTYRVRFLAKENVTDQDAEDNTVSFLQPNGA  
IFEPSLSVGTEADNFTVLNLAVAAASHIYQNQFVQMILNSLINKSSMFQVRTLRELLW

GYRDPFLSLVPYPVTTTVGLFYPYNTADGVYKVFNGKDNISKVAIIDTYKGKRNL SYWE  
SHCDMINGTDAASFPPFVEKSQVLQFFSSDICRSIYAVFESDVNLKGIPVYRFVLPSKAF  
ASPVENPDNYCFCTEKIISKNTSYGVLDISKCKEGRPVYISLPHFLYASPDVSEPIDGL  
NPNEEEHRTYLDIEPITGFTLQFAKRLQVNLLVKPSEKIQLKNLKNRYIVPILWLN ETG  
TIGDEKANMFRSQVTGKINLLGLIEMILLSVGVVMFVAFMISYCACRSKTIK

>sp|P11049|CD37\_HUMAN Leukocyte antigen CD37 OS=Homo sapiens GN=CD37 PE=1 SV=2

MSAQESCLSLIKYFLFVFNLFVFLGSLIFCFGIWILDKTSFVSFVGLAFVPLQIWSKV  
LAISGIFTMGIALGCVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLR  
DVVEKTIQKYGTNPETAEEESWDYVQFQLRCCGWHYPQDWFQVILIRGNGSEAHVRPCS  
CYNLSATNDSTILDKVILPQLSRLGHLARSRHADICAVPAESHIYREGCAQGLQKWLHN  
NLISIVGICLGVGLLELGFMTLSIFLCRNLDHVYNRLARYR

>sp|Q07108|CD69\_HUMAN Early activation antigen CD69 OS=Homo sapiens GN=CD69 PE=1 SV=1

MSSENCFAENSSLHPESGQENDATSPHFSTRHEGSFQVPVLCAMNVVFITILIALIA  
LSVGQYNCPGQYTFSMPSDSHVSSCEDWVGYQRKCYFISTVKRSWTS AQNACSEHGATL  
AVIDSEKDMNFLKRYAGREEHWGLKKEPGHPWKWSNGKEFNWFNVTGSDKCVFLKNTE  
VSSMECEKNLYWICNKPYPK

>sp|P21926|CD9\_HUMAN CD9 antigen OS=Homo sapiens GN=CD9 PE=1 SV=4

MPVKGGTKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSTKSI FEQETNNNNSSFYTG  
YILIGAGALMMLVGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAIWGYSHKDEVIKE  
VQEFYKDTYNKLTKEDEPQRETLKAIHYALNCCGLAGGVEQFISDICPKKDVL EFTTVKS  
CPDAIKEVFDNKFHII GAVGIGIAVVMIFGMIFSMILCCAIRRNREMV

>sp|P49336|CDK8\_HUMAN Cyclin-dependent kinase 8 OS=Homo sapiens GN=CDK8 PE=1 SV=1

MDYDFKVKLSSERERVEDLFEYEGCKVGRGTYGHVYKAKRKDGKDDKDYALKQIEGTGIS  
MSACREIALRELKHPNVISLQKVFLSHADRKVWLLFDYAEHDLWHIIKFHRASKANKKP  
VQLPRGMVKSLLYQILDGIHYLHANWVLRDLKPANILVMGEGPERGRVKIADMGFARLF  
NSPLKPLADLDPVVVTFWYRAPELLLGARHYTKAIDIWAIGCIFAELLTSEPIFHCRQED  
IKTSNPYHHDQLDRIFNVMGFPADKDWEDIKKMPEHSTLMKDFRRNTYTNC SLIKYMEKH  
KVKPDSKAFHLLQKLLTMDPIKRITSEQAMQDPYFLEDPLPTSDVFAGCQIPYPKREFLT  
EEEPDDKGDKKNQQQQGNNHTNGTGHPGNQDSSHTQGPPLKKVRVVPPTTSGGLIMTS  
DYQRSNPAAYPNPGPSTSQPQSSMGYSATSQPPQYSHQTHRY

>sp|O14627|CDX4\_HUMAN Homeobox protein CDX-4 OS=Homo sapiens GN=CDX4 PE=1 SV=1

MYGSCLEKEAGMYPGLTMSPPGGTAGTGGTGGGGSPMPASNFAAAPAFSHYMGYPHMP  
SMDPHWPSLGVWGSPYSPREDWSVYPGPSSTMGTVPVNDVTSSPA AFCSTDYSNLGPVG  
GGTSGSSLPGQAGGSLVPTDAGAAKASSPSRSRHSPIYAWMRKTVQVTGKTRTKEKYRVVY  
TDHQRLELEKEFHCRNYITIQRKSELAVNLGLSERQVKIWFQNRRAKERKMIKKKISQFE  
NSGGSVQSDSDSISP GELPNTFFTTPSAVRGFPPIEQVIVSE

>sp|Q8N9H6|CH031\_HUMAN Uncharacterized protein C8orf31 OS=Homo sapiens GN=C8orf31 PE=2 SV=1

MAEKPHQNSCNSVRQLFKTKQLVTHRDRGSCTHRAQGLLAARTTALQRSPLQQEIWESTT  
ALNLPSALAPQGLTAKDAHFLGDTDPIQEGARDHAAGGPFQDRQASVAAQTL SWERGQGF  
SRHHGNHLLYSH

>sp|Q6P1X6|CH082\_HUMAN UPF0598 protein C8orf82 OS=Homo sapiens GN=C8orf82 PE=1 SV=2

MWPPCGTLRTLALARSRGARACSGDGGVSYTQGQSPEPTREYFYYVDHQQLFLDDSKM  
KNFITCFKDPQLVTFFSRLRPNRSGRYEAAPFLSPCGRERNFLRCEDRPVVFTHLLTA

DHGPPRLSYCGGGEALAVPFEPARLLPLAANGRLYHPAPERAGGVGLVRSALAFELSACF  
EYGGAPALPSHVRWQGRRLALTMDLAPLLLAARSP

>sp|P0DMQ9|CH089\_HUMAN Putative uncharacterized protein C8orf89 OS=Homo sapiens  
GN=C8orf89 PE=2 SV=1

MSVLSPEIKCETSKFTRSSFGSCLIFESSWKKAVLETQKIKKEYTTAFGLEELKECIKMP  
YLPGLQSCQKSVSSTPLEVPKRLPRADAEVSAVRLKKTKETCSVAPLWEKSKGSGFSDDL  
TGAPSQYLERLSKIAILEYDTIRQETTTKSKSKKRDLRDR

>sp|Q9HD42|CHM1A\_HUMAN Charged multivesicular body protein 1a OS=Homo sapiens GN=CHMP1A  
PE=1 SV=1

MDDTLFQLKFTAKQLEKLAKKAEKDSKAEQAKVKKALLQKNVECARVYAENAIRKKNEGV  
NWLRMASRVDAVASKVQTAVTMKGVTKNMAQVTKALDKALSTMDLQKVSSVMDRFEQQVQ  
NLDVHTSVMEDSMSSATTLTPQEQQVDSLIMQIAEENGLEVLQDLSQLPEGASAVGESSV  
RSQEDQLSRRLAALRN

>sp|Q9UQN3|CHM2B\_HUMAN Charged multivesicular body protein 2b OS=Homo sapiens GN=CHMP2B  
PE=1 SV=1

MASLFKKKTVDDVIKEQNRELGTQRAIIRDRAALEKQEKQLELEIKKMAKIGNKEACKV  
LAKQLVHLRKQKTRTFVASSKVTSMSTQTKVMNSQMKMAGAMSTTAKTMQAVNKKMDPQK  
TLQTMQNFQKENMKMEMTEEMINDLDDIFDGSDEEESQDIVNQVLDEIGIEISGKMAK  
APSAARSLPSASTSKATISDEEIERQLKALGVD

>sp|Q70JA7|CHSS3\_HUMAN Chondroitin sulfate synthase 3 OS=Homo sapiens GN=CHSY3 PE=2 SV=3

MAVRSRRPWMSVALGLVLGFTAASWLIAPRAELSERKRRGSSLCYYGRSAAGPRAGAQ  
QPLPQPQSRPRQEQSPPARQDLQGPPLPEAAPGITSFRSSPWQQPPPLQRRRGREPEG  
ATGLPGAPAAEGEPEEEDGGAAGQRRDGRPGSSHNGSGDGGAAAPSARPRDFLYVGVMTA  
QKYLGSRALAAQRTWARFIPGRVEFFSSQPPNAGQPPPLPVIALPGVDDSYPPQKKSF  
MMIKYMHDDHYLDKYEWFMRADDVYIKGDKLEEFRLSLNSSKPLYLGQTGLGNIEELGKL  
GLEPGENFCMGGPGMIFSREVLRRMVPHIGECLREMYTTHEDEVGRCVRRFGGTQCVWS  
YEMQQLFHENYEHNRKGYIQDLHNSKIHAATLHPNKRPAQYRLHNYMLSRKISELRYS  
TIQLHRESALMSKLSNTEVSKEDQQLGVIPSFNHFQPRERNEVIEWEFLTGLKLLYSAEN  
QPPRQSLSSILRTALDDTVLQVMEMINENAKSRGRLIDFKEIQYGYRRVNPMHGVYILD  
LLLLYKRHKGRKLTVPVRRHAYLQQLFSKPFRETEELDVNSLVESINSETQSFSFISNS  
LKILSSFQGAKEMGGHNEKKVHILVPLIGRYDIFLRFMENFENMCLIPKQNVKLVIILFS  
RDSGQDSSKHIELIKGYQNKYPKAEMTLIPMKGEFSRGLGEMASAQFDNDTLLFCDVD  
LIFREDFLQRCRDNTIQGQVYYPPIIFSQYDPKVTNGGNPPTDDYIFSKKTGFWRDYG  
GITCIYKSDLGAGGFDTSIQGWLEDVDLYNKVILSGLRPFRSQEVGVVHIFHPVHCDP  
NLDPKQYKMCGLGSKASTFASTMQLAELWLEKHLGVRYNRTLS

>sp|Q7LGC8|CHST3\_HUMAN Carbohydrate sulfotransferase 3 OS=Homo sapiens GN=CHST3 PE=1 SV=3

MEKGLTLPQDCRDFVHSLKMRKYALFLVFVIVFVIEKENKIIISRVSDKLKQIPQALA  
DANSTDPALILAENASLLSLELDSAFSQLQSRLRNLSLQLGVPEPAMEAAGEEEEEQRKE  
EEPPRPAVAGPRRHVLLMATTRTGSSFVGEFFNQGNIFYLFEPLWHIERTVSFEPGGAN  
AAGSALVYRDVLKQLFLCDLYVLEHFIITPLPEDHLTQFMFRRGSSRSLCEDPVCTPFVKK  
VFEKYHCKNRRCGPLNVTLAAEACRRKEHMALKAVRIRQLEFLQPLAEDPRLDLRVIQLV  
RDPRAVLASRMVAFAGKYKTWKKWLDDEGQDGLREEVQRLRGNCESIRLSAELGLRQPA  
WLRGRYMLVRYEDVARGPLQKAREMYRFAGIPLTPQVEDWIQKNTQAAHDGSGIYSTQKN  
SSEQFEKWRFSMPFKLAQVVQAACGPAMRLFGYKLARDAALTNRSVSLLEERGTFWVT

>sp|Q9NS84|CHST7\_HUMAN Carbohydrate sulfotransferase 7 OS=Homo sapiens GN=CHST7 PE=1 SV=2  
MKGRRRRRREYCKFALLLVLYTLVLLVPSVLDGGRDGDKGAEHCPGLQRSLGVWSLEAA  
AAGEREQGAEARAAEEGGANQSPRFPSNL SGAVGEAVSREKQHIYVHATWRTGSSFLGEL  
FNQHPDVFYLYEPMWHLWQALYPGDAESLQGALRDMRLSLFRCDFSVLRLYAPPGDPAAR  
APDTANLTTAALFRWRTNKVICSPPPLCPGAPRARA EVGLVEDTACERSCPPVAIRALEAE  
CRKYPVVVIKDVRLDLGVLP LLRDPGLNLKV VQLFRDPRAVHNSRLKSRQG LLRESIQ  
VLRTQRGDRFHRVLLAHGVGARPGGQSRALPAAPRADFFLTGALEVICEAWLRDLLFAR  
GAPAWLRRRYLR LRYEDLVRQPRAQLRRLRFSGLRALAALDAFALNMTRGAAYGADRPF  
HLSARDAREAVHAWRERLSREQVRQVEAACAPAMRLLAYPRSGEEGD AEQPREGETPLEM  
DADGAT

>sp|Q8IXQ3|CI040\_HUMAN Uncharacterized protein C9orf40 OS=Homo sapiens GN=C9orf40 PE=1  
SV=1  
MAKRRAAEPVTFHVPWKRLLLCDFAEQPPPPPLWIRPPGVAHAGQLLGVP EQHRKRKIDA  
GTMAEPSASPSKRRDSGNSAPSGQEREDHGLETGDPPLPPPVLPGPGEELPGARLP GG  
GGDDGAGRAGPPRGDWGVASRQHNEEFWQYNTFYWRNPLPPIDLADIEDLSEDTL TEAT  
LQGRNEGA EVD MES

>sp|Q5T280|CI114\_HUMAN Putative methyltransferase C9orf114 OS=Homo sapiens GN=C9orf114  
PE=1 SV=3  
MAERGRKRPCGPGEHGQRIEWRKWKQKKKEKKWKDLKLMKKLERQRAQEEQAKRLEEE  
EAAAEKEDRGRPYTLSVALPGSILDNAQSP ELRTYLAGQIARACAIFCVDEIVVFDEEGQ  
DAKTVEGEFTGVGKKGQACVQLARILQYLECPQYLKRAFFPKHQDLQFAGLLNPLDSPHH  
MRQDEESEFREGIVDRPTRPGHGSFVNCMKKEVKIDKNLEPGLRVTVRLNQQQHPDCK  
TYHGKVVSSQDPRTKAGLYGWGYTVRLASCLSAVFAEAPFQDGYDLTIGTSERGSDVASAQ  
LPNFRHALVVF GGLQGLEAGADADPNLEVAEPSV LFDLYVNTCPGQGSRTIRTEEAILIS  
LAALQPGLIQAGARHT

>sp|Q8N9P6|CI163\_HUMAN Uncharacterized protein C9orf163 OS=Homo sapiens GN=C9orf163 PE=2  
SV=1  
MPGPLTCTPAWQGGRAAAFLCCSFQRAGAVVGVPARWHRGRLSSQQRLRSSLGGSHPCP  
QLGRRLVREGVISVPRQQGRRRCRESFSPADVAPGPICSANICLSGVRFLTCLNRVREHV  
VGPSPSAAPICFFPVVEALCTLRGRRCHCLPFPKRGMRWMLPLRRGARLLPLASSKNP  
RARSPGLDPLGSSETLWSHRGGH

>sp|AOPJX0|CIB4\_HUMAN Calcium and integrin-binding family member 4 OS=Homo sapiens GN=CIB4  
PE=1 SV=1  
MGQCLRYQMHWEDLEEYQALTFLTRNEILCIHDTFLKLCPPGKYK EATLTMDQVSSLPA  
LRVNPFRDRICRVF SHKGMFSFEDVLGMASVFSEQACPSLKIEYAFRIYDFNENG FIDEE  
DLQRIILRLN SDDMSEDLLMDLTNHVLS ESDLNDNMLSFSEFEHAMAKSPDFMNSFRI  
HFWGC

>sp|Q8TCG1|CIP2A\_HUMAN Protein CIP2A OS=Homo sapiens GN=KIAA1524 PE=1 SV=2  
MDSTACKSLLLTVS QYKAVKSEANATQLLRHLEVISGQK LTRLFTSNQILTSECLSCLV  
ELLEDPNISASLILSIIGLLSQLAVDIETRDCLQNTYNLSVLAGVVCRSSHTDSVFLQC  
IQLLQKLTYNVKIFYSGANIDELITFLIDHIQSSEDELKMPCLGLLANLCRHNLSVQTHI  
KTLSNVKSFYRTLITLLAHSSLTVVVFALSILSSLTLNEEVGEKLFHARNIHQTFQLIFN  
ILINGDGTLTRKYSVDLLMDLLKNPKIADYLTRYEHFSSCLHQVLG LLNGKDPDSSSKVL  
ELLAFCSVTQLRHMLTQMMFEQSPPGSATLGSHTKCLEPTVALLRWLSQPLDGS ENCSV

LALELFKEIFEDVIDAANCSSADRFVTLTLLPTILDQLQFTEQNLDEALTRKKCERIAKAI  
EVLLTLCGDDTLKMHIKILTTVKCTTLEQQFTYKGIDLGFGTKVADSELCKLAADVIL  
KTLDLINKLKPLVPGMEVSFYKILQDPRLITPLAFALTSDNREQVQSGLRILLEAAPLPD  
FPALVLGESIAANNAYRQQETEHIIPRKMPWQSSNHSFPTS IKCLTPHLKDGVPGLNIEEL  
IEKLQSGMVVKDQICDVRI SDIMDVYEMKLSTLASKESRLQDLLET KALALAAQADRLIAQ  
HRCQRTQAETEARTLASMLREVERKNEELSVLLKAQQVESERAQSDIEHLFQHNRKLESV  
AAEHEILTKSYMELLQRNESTEKKNKDLQITCDSL NKQIETVKKLNESLKEQNEKSIAQL  
IEKEEQRKEVQNQLVDREHKL ANLHQKTKVQEEKIKTLQKEREDKEETIDILRKELSRTE  
QIRKELSIKASSLEVQKAQLEGRLEEKESLVKLQQEELNKHSHMIAMIHSLSGGKINPET  
VNLSI

>sp|Q15642|CIP4\_HUMAN Cdc42-interacting protein 4 OS=Homo sapiens GN=TRIP10 PE=1 SV=3

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAK  
DDPESKFSQQQSFVQILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEG  
RRAQQQLENGFKQLENSKRKFERDCREAEKAAQTAERLDQDINATKADVEKAKQQAHLRS  
HMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQMDERRATRLGAGYGLLSEAELE  
VVPIIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL  
GTPSDGRPELRGPRSRTRKWPFGKKNKPRPPPLSPLGGPVPSALPNGPPSPRSGRDPLA  
ILSEISKSVKPRLASFRSLRGSRGTVVTEDFSHLPPEQQQRKRLQQQLEERSRELQKEVDQ  
REALKKMKDVYEKTPQMGPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRG  
DSLSRHARPPDPASAPPDSSSNSASQDTKESSEEPPEESQDTPIYTEFDEDFEEETPS  
PIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRVRKEGEGYVPTS YLRVTL  
N

>sp|Q9NZ45|CISD1\_HUMAN CDGSH iron-sulfur domain-containing protein 1 OS=Homo sapiens  
GN=CISD1 PE=1 SV=1

MSLTSSSSVRVEWIAAVTIAAGTAAIGYLAYKRFYVKDHRNKAMINLHIQKDNPKIVHAF  
DMEDLGDKAVYCRWRSKKFPFCDAHTKHNEETGDNVGPLIIKKKET

>sp|Q99967|CITE2\_HUMAN Cbp/p300-interacting transactivator 2 OS=Homo sapiens GN=CITED2  
PE=1 SV=2

MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQPQHAFNALMGEHIIHYGA  
GNMNATSGIRHAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLN  
NQYFNHHYPYHNHYMPDLHPAAGHQMNQTNQHFRDCNPKHSGGSSTPGSGSGSSTPGGSG  
SSSGGGAGSSNSGGSGSGNMPASVAHVPAAMLPPNVIDTDFIDEVLSLVIEMGLDRI  
KELPELWLGQNEFDFMTDFVCKQQPSRVSC

>sp|Q96RK1|CITE4\_HUMAN Cbp/p300-interacting transactivator 4 OS=Homo sapiens GN=CITED4  
PE=1 SV=1

MADHMLAEGYRLVQRPPSAAAAHGPHALRTLPPYAGPGLDSGLRPRGAPLGPPPPRQPG  
ALAYGAFGPPSSFQFPFAVPPPAAGIAHLQPVATPYPGRAAAPNAPGGPPGPQAPASAA  
APPPPAHALGMDAELIDEEALTSLELELGLHRVRELPELFLGQSEFDCFSDLGSAPPAG  
SVSC

>sp|Q9ULV3|CIZ1\_HUMAN Cip1-interacting zinc finger protein OS=Homo sapiens GN=CIZ1 PE=1  
SV=2

MFSQQQQQQQLQQQQQQQLQQQLQQQQQLQQQQQLQQQLLQLQQLLQQSPPQAPLPMASRGLP  
PQQPQQPLLNLQGTNSASLLNGSMLQRALLLQQQLQGLDQFAMPPATYDTAGLTMPTATLG  
NLRGYGMASPLAAPS LTPPQLATPNLQQFFPQATRQSLLGPPPVGVPMNPSQFNLSGRN



PQKQARTSSSTTPNKRKSSSQTMPVEDKSDPPEGSEEAEPMDTPEDQDLPPCPEDIAK  
EKRTPAPEPEPCEASELPAKRLRSSEEPTEKEPPGQLQVKAQPQARMTVPKQTQTPDLLP  
EALEAQVLPRFQPRVLQVQAQVQSQTQPRIPSTDTQVQPKLQKQAQTQTSPEHLVLQKQK  
VQPQLQQAEPQKQVQPQVQQAHSQGPRQVQLQQAEPKQVQVQVQQAHSQPPRQVQ  
LQLKQVQTQTYPVHTQAQPSVQPQEHPPAQVSVQPPEQTHEQPHTQPQVSLLAPEQTP  
VVHVCGLEMPDAVEAGGMEKTLPEPVGTVSMEEIQNESACGLDVGECENRAREMPG  
VWGAGGSLKVTILQSSDSRAFSTVPLTPVPRPSDSVSSTPAATSTPSKQALQFFCYICKA  
SCSSQQEFQDHMSEPQHQQRLGETIQHMSQACLLSLLPVPRDVLETEDEEPPRRWCNTCQ  
LYYMGDLIQHRRTDHAKIQLSLRPFCTVCNRYFKTPRKFEHVKSQGHKDKAKELKSLE  
KEIAGQDEDFHITVDAVGCPEGDEEEEEDEDEEEIEVEEELCKQVRSRDISREEWKGE  
TYSNPNTAYGVDFLPVMGYICRICHKFYHSNSGAQLSHCKSLGHFENLQKYKAAKNPSPT  
TRPVSRRCAINARNALTALFTSSGRPPSQPNTQDKTPSKVTARPSQPPLPRRSTRLKT

>sp|Q5T742|CJ025\_HUMAN Uncharacterized protein C10orf25 OS=Homo sapiens GN=C10orf25 PE=2  
SV=3

MVPGPPESVVRFFLWFCFLLPTRKASCDPRDLKSCNRPCVWSRLKPNSSLSNLETAYF  
PQILRFLRPWYFSRSHLNYHQAPARWEWLYSIYRKGTKAQRRNVLRSPCAPPQPSWPCS  
VI

>sp|A4QN01|CJ040\_HUMAN Putative uncharacterized protein encoded by LINC01553 OS=Homo  
sapiens GN=LINC01553 PE=2 SV=1

MKHKYNLTLSWYKKERSTQLRRFIVHQPEVGLFFFLRDVVYNYITEKTTCRCPLTQERPCD  
TGGKFGRIWICQPEELGKMQUIWICQPEELGKMQIDKNRTMVQMQMYYIWYGGGLDTSTNSLL  
PILVRGMA

>sp|Q9H8K7|CJ088\_HUMAN Uncharacterized protein C10orf88 OS=Homo sapiens GN=C10orf88 PE=1  
SV=2

METRTEDGGLTRRPTLASSWDVAGGALTHSLLLTRAGLPGDFDWEELLAPPAGQDLVI  
LKRHNHNKDNPCFLYLRCGPDGGEETIASIGILSSARNMEVYLGEYCGTSRGKNVCTVL  
DDSEHEKIIILYKKNLKLESSTHACKIKLLSFGERQCVFISKVVVHMRSVFANSSTSSPAL  
GSRIDLDKVQTIMESMGSKLSPGAQQLMVMVRCQQRNCIPIGEQLQSVLGNSGYKHMIGL  
QSSSTLGLTNKSSSTPFPFRTGLTSGNVTENLQTYIDKSTQLPGGENSTKLDECKVMPQN  
HSFLENDLKAMASFLPKKVS DNSNIPNSELLPFLQNLCSQVNLHVGNKTECQENITKH  
GERILGVGMEEQSICSYLEKILSKNMELMEKKLMDYIDQRIHELQEHIDDKIALLLDLLQ  
NPNSPPTGIPLRHYSGERLSNGER

>sp|Q6UWK7|CJ099\_HUMAN Secreted protein C10orf99 OS=Homo sapiens GN=C10orf99 PE=1 SV=1  
MRLLVLSSLLCILLCFISFSTEGKRRPAKAWSGRRRLCCHRVSPNSTNLKGHHVRLC  
KPKCLEPEPRLWVVPALPQV

>sp|Q5SQS8|CJ120\_HUMAN Uncharacterized protein C10orf120 OS=Homo sapiens GN=C10orf120  
PE=2 SV=1

MIREWKNDQRIEKQASDTMVQERKNEKPVRIFNTNSSFQDQAPTCCQEDLSSASPLRI  
WSKFYRSDPRIALGKYSPLKEILRLGGIHTIAARRLLAYKQEEECRMLKELQLSPDYK  
QAMEYKKKHSSPCAICVPLEKIWTAKVIAPLEAFKMPQREQVNVSKHIERMRLARALGNH  
QPLPYIERFTRSSFLSGVGLGPMANKARRKEDNYDTHNCDDANQDKKEEAEGKNTKRRE  
IKMNVVFKSKEPKCLTYHGNDRKSFLPAKKPERSIAGLTNRNLFCISEFPGLMLMNQD  
FISRRDHFSDLVKTYSLEEESIWKERM RKATPYHY

>sp|Q8WZ69|CK040\_HUMAN Putative uncharacterized protein C11orf40 OS=Homo sapiens  
GN=C11orf40 PE=2 SV=1

MALVQALVPREREPKLSILQMDRGDPQHSSHWCPEREKVKLLTLKPRETSKNILINFYRA  
FNLDKDVFIHQANHPLTVPSSVVMGDNHGHTLAEDDKRPCFRVLPCYLERVSSGISISWIS  
APLPVGAMKHQLLCDLMDLITLSFWLAGQCMSLKATNMQHCKCSIATSDWAIELDRTDYK  
TLPSEYSILALLQVFAGKNCMDRVLLHVDVNYLKSLP

>sp|Q9H6J7|CK049\_HUMAN UPF0705 protein C11orf49 OS=Homo sapiens GN=C11orf49 PE=1 SV=2

MLSPERLALPDYEYLAQRHVLTYMEDAVCQLLENREDISQYGIARFFTEYFNSVCQGTHI  
LFREFSFVQATPHNRVSFLRAFWRFCRTVGKNGDLLTMKEYHCLLQLCPDFPLELTQKA  
ARIVLMDDAMDCLMSFSDFLFAFQIQFYSEFLDSVAAIYEDLLSGKNPNTVIVPTSSSG  
QHRQRPALGGAGTLEGVEASLFYQCLENLCDRHKYSCPPPALVKEALSNVQRLTFYGFLM  
ALSKHRGINQALGALPDKGDLMHDPAMDEELERLLAQVPLVNSVTASPEASCLPSRTPP  
RVGSPWRPLHHSRKVDGESDGSTEETDESET

>sp|Q9BRQ4|CK070\_HUMAN Uncharacterized protein C11orf70 OS=Homo sapiens GN=C11orf70 PE=2  
SV=3

MATGELGDLGGYYFRFLPQKTFQSLSSKEITSRLRQWSMLGRIKAQAFGFDQTFQSYRKD  
DFVMAFFKDPNVIPNLKLLSDSSGQWIIIGTEVKKIEAINVPCTQLSMSFFHRLYDEDIV  
RDSGHIVKCLDSFCDFLISDELRRVLLVEDSEKYEIFSQPDREEFLFCLFKHLCLGGAL  
CQYEDVISPYLETTKLIYKDLVSVRKNPQTKKIQTSSVFKVSAYDSAGMCYPSAKNHEQ  
TFSYFIVDPIRRHLHVLYHCYGVGDMS

>sp|Q86VG3|CK074\_HUMAN Uncharacterized protein C11orf74 OS=Homo sapiens GN=C11orf74 PE=1  
SV=1

MSAHMSGLEIMDEDQLIKDVLDKFLNCHEQTYDEEFLNTFTHLSQEDHVS KRGVFGTDSS  
ENIFTSAKVTHKNEADDYHLRNKTI FLRTSSQCLEEQVDNFLDLEDLMDDEEIKPQMSD  
LLLLPGEVEQDVSTSPSCIPFVAQPPTCEVKPKPSVKRMDKQTEEILGDEVQLFSLDEE  
FDYDNVMLTSKFSPAIEINIKELCKQQRKDTSPDLEKSCD

>sp|Q6NUJ2|CK087\_HUMAN Uncharacterized protein C11orf87 OS=Homo sapiens GN=C11orf87 PE=1  
SV=2

MSARAPKELRLALPPCLLNRTFASPNASGSGNTGARGPGAVGSGTCITQVGQQLFQSFSS  
TLVLIVLVTLIFCLIVLSLSTFHIHKRRMKRKMQRAQEEYERDHCSGSRGGGGLPRPGR  
QAPTHAKETRLEQRPRDSPFCAPSNASSLSSSSPGLPCQGPCAPPPPPASSPQGAHAAS  
SCLDTAGEGLLQTVVLS

>sp|Q3C1V1|CK091\_HUMAN Uncharacterized protein C11orf91 OS=Homo sapiens GN=C11orf91 PE=2  
SV=2

MPKGRRGSHSPTMSQRSAPPLYFPSLYDRGISSSPLSDFNIWKKLFVPLKAGGAPVGGAA  
GARSLSQALPAPAPPPPPPGLPSSERPWPSPWPSGLASIPYEPLRFFYSPPPGPEVVA  
SPLVPCSTPRLASASHPEELCELEIRIKELELLTITGDGFDSQSYTFLKALKDEKLQGL  
KTKQPGKKSASLS

>sp|Q96S95|CK2N2\_HUMAN Calcium/calmodulin-dependent protein kinase II inhibitor 2 OS=Homo  
sapiens GN=CAMK2N2 PE=2 SV=1

MSEILPYSEDKMGRFGADPEGSDLSFSCRLQDTNSFFAGNQAKRPPKLGQIGRAKRVVIE  
DDRIDDVLKGMGEKPPSGV

>sp|Q96JB5|CK5P3\_HUMAN CDK5 regulatory subunit-associated protein 3 OS=Homo sapiens  
GN=CDK5RAP3 PE=1 SV=2

MEDHQHVPIDIQTSKLLDWLVDRRHCSLKWQSLVLTIREKINAAIQDMPESSEEIAQLLSG  
SYIHYFHLRILDLLKGTEASTKNIFGRYSSQRMKDWEI IALYEKDNITYLVELSSLLVR  
NVNYEIPSLKKQIAKCCQLQQEYSRKEECQAGAAEMREQFYHSCQYGITGENVRGELL  
ALVKDLPSQLAEIGAAAQQLGEAIDVYQASVGFVCESPTQVLPMLRFVQKRGNSTVYE  
WRTGTEPSVVERPHLEELPEQVAEDAIDWDFGVEAVSEGTDSGISAEAAAGIDWGIFPES  
DSKDPGGDIDWGDDAVALQITVLEAGTQAPGVARGPDALTLLEYTETRNQFLDELMEL  
EIFLAQRAVELSEEDVLSVSQFQLAPAILQGQTKEKMTVMVSVLEDLIGKLTSLQLQHL  
FMILASPRYVDRVTEFLQKKLQSQLLALKKELMVQKQEEALEEQAALEPKLDLLEKTK  
ELQKLEADISKRYSGRPVNLMTSL

>sp|Q8WWK9|CKAP2\_HUMAN Cytoskeleton-associated protein 2 OS=Homo sapiens GN=CKAP2 PE=1  
SV=1

MSTPAVPQDLQLPPSQRAQSAFKEQRRQKLKEHLLRRKTLFAYKQENEMLSSSRDQRVVT  
SEDQVQEGTKVLKLTQMADKENMKRPAESKNNTVVGKHCIPKPSNELTNSTVVIDTHK  
PKDSNQTPHLLLTEDDPQSQHMTLSQAFHLKNNSSKKQMTTEKQKQDANMPKPKPVLGSYR  
GQIVQSKINSFRKPLQVKDESSAATKKLSATIPKATKPQPVNTSSVTVSKNRSSNMTATT  
KFVSTTSQNTQLVRPPIRSHHSNTRDTVKGISRTSANVTIRKGPHEKELLQSKTALSSV  
KTSSSQGIIRNKTLRSRSIASEVIARPASLSNDKLMKSEPVDQRRHTAGKAIVDSRSAQP  
KETSEERKARLSEWKAGKGRVLKRPPNSVVTQHEPAGQNEKPVGSFWTTMAEEDQRLFT  
EKVNNTFSECLNLINEGCPKEDILVTLNDLIKNIPTDAKKLVKYWICLALIEPITSPIENI  
IAIYEKAILAGAQPIEEMRHTIVDILTMKSQEKANLGENMEKSCASKEEVKEVSIEDTGV  
DVDPEKLEMESKLHRNLLFQDCEKEQDNKTKDPHTDVKTPNTETRTSLIKYNVSTTPYL  
QSVKKKVQFDGTNSAFKELKFLTPVRRSRRLQEKTSKLPDMLKDHYPCVSSLEQLTELGR  
ETDAFVCRPNAALCRVYYEADTT

>sp|Q14008|CKAP5\_HUMAN Cytoskeleton-associated protein 5 OS=Homo sapiens GN=CKAP5 PE=1  
SV=3

MGDDSEWLKLPVDQKCEHKLWKARLSGYEEALKIFQKIKDEKSPEWSKFLGLIKKFVTDS  
NAVVQLKGLEAALVYVENAHVAGKTTGEVVSQVSKVFNQPKAKAKELGIEICLMIYEIE  
KGEAVQEELLKGLDNKNPKIIVACIETLRKALSEFGSKIILLKPIIKVLPKLFESREKAV  
RDEAKLIAVEIYRWIRDALRPPLQININSVQLKELEEWWKLPTSAPRPTRFLRSQQELEA  
KLEQQQSAGGDAEGGGDDGDEVPQIDAYELLEAVEILSKLPKDFYDKIEAKKWQERKEAL  
ESVEVLINPKLEAGDYADLVKALKKVVGKDTNVMVALAAKCLTGLAVGLRKKFGQYAG  
HVVPTILEKFKEKKPQVVQALQEIDAIFLTTTLQNI SEDVLAVMDKNPTIKQQTSLFI  
ARSFRHCTASTLPKSLLKPFCAALLKHINDSAPEVRDAAFEALGTALKVVGEKAVNPFLA  
DVDKLDLKDKEKSEKVELIHGKKAGLAADKKEFKPLPGRTAASGAAGDKDTKDISAPKP  
GPLKKAPAAKAGPPKKGKPAAPGGAGNTGTKNKKGLETKEIVEPELSIEVCEEKASAVL  
PPTCIQLLDSSNWKERLACMEEFQKAVELMDRTEMPCQALVRMLAKKPGWKETNFQVMQM  
KLHIVALIAQKGNFSKTSQAVVLDGLVDKIGDVKCGNNAKEAMTAIAEACMLPWTAEQVV  
SMAFSQKNPKNQSETLNWLSNAIKEFGFSGLVKAFISNVKTALAATNPAVRTAAITLLG  
VMYLYVGP SLRMFFEDEKPALLSQIDAEFEKMQGQSPAPTRGISKHSTSGTDEGEDGDE  
PDDGSNDVVDLLPRTEISDKITSELVSKIGDKNWKIRKEGLDEVAGIINDAKFIQPNIGE  
LPTALKGRLNSNKILVQQLNLQQLAVAMGPNIKQHVKNLGIPIITVLGDSKNNVRAA  
ALATVNAWAEQTGMKEWLEGEDLSEELKKENPFLRQELLGWLAEKLPTRSTPTDLILCV  
PHLYSCLEDNRNGDVRKKAQDALPFFMMHLGYEKMAKATGKLGKPTSKDQVLAMLEKAKVNM  
PAKPAPPTKATSKPMGGSAPAKFQPASAPAEDCISSTEPKPDPKKAKAPGLSSKAKSAQ

GKKMPSKTSLKEDEDKSGPIFIVVPNGKEQRMKDEKGLKVLKWNFTTPRDEYIEQLKTQM  
SSCAKWLQDEMFSDFQHNNKALAVMDHLESEKEGVIGCLDLILKWLTLRFFDTNTSV  
LMKALEYLKLLFTLLSEEEYHLTENEASSFIPYLVVKVGEPKDVIRKDVRAILNRMCLVY  
PASKMFPFIMEGTKSKNSKQRAECLEELGCLVESYGMNVCQPTPGKALKEIAVHIGDRDN  
AVRNAALNTIVTVYNVHGDQVFKLIGNLSEKDMSMLEERIKRSKRPSAAPIKQVEEKPQ  
RAQNISSNANMLRKGAEDMSSKLNQARMSGHPEAAQMVRRFQLDLDEIENDNGTVRC  
EMPELVQHKLDDIFEPVLIPEPKIRAVSPHFDDMHSNTASTINFIISQVASGDINTSIQA  
LTQIDEVLREQDKAEAMSGHIDQFLIATFMQLRLIYNTHMADEKLEKDEIIKLYSCIIGN  
MISLFQIESLAREASTGVLKDLMHGLITLMLDSRIEDLEEGQQVIRSVNLLVVKVLEKSD  
QTNILSALLVLLQDSSLATASSPKFSELVMKCLWRMVRLLPDTINSINLDRILLDIHIFM  
KVFPKEKLKQCKSEFPRTLKTLHTLCKLKGPKILDHLTMIDNKNESELEAHLCRMMKH  
SMDQTGSKSDKETEKASRIDEKSSKAKVNDFLAEIFKKIGSKENTKEGLAELYEYKKKY  
SDADIEPFLKNSSQFFQSYVERGLRVIEMEREGKGRISTSTGISPQMEVTCVPTPTSTVS  
SIGNTNGEEVGPSVYLERLKILRQRCGLDNTKQDDRPPLTSLLSKPAVPTVASSTDMLHS  
KLSQLRESREQHQHSDLDSNQTHSSGTVTSSSSTANIDDLKKRLERIKSSRK

>sp|Q96FZ5|CKLF7\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 7 OS=Homo sapiens GN=CMTM7 PE=2 SV=1

MSHGAGLVRTTSSGSALGPGAGAAQPSASPLEGLLDLSYPRTHAALLKVAQMVTLLIAF  
ICVRSSLWTNYSAYSFEVVTICDLIMILAFYLVHLFRFYRVLTCSWPLSELLHYLIGT  
LLLLIASIVAASKSYNQSLVAGAIFGFMATFLCMASIWLKSYKISCVTQSTDAAV

>sp|Q8NA57|C1050\_HUMAN Uncharacterized protein C12orf50 OS=Homo sapiens GN=C12orf50 PE=1 SV=1

MEMQQNCISCFWETQPLGCVKISCIFYHSPKRNINGLFLPPSSNITLQKEIQEGIPLQS  
QSQEPLKPQENISRPVHHLVVLKTNFEEEEVEQNDASSLWTKTPEEIEEKRAIKEMCY  
KSGEYYRFHTPPDILSSKSMPTAEKQLEKPLENGSELQEGDSLTPVKLSQYERQGEIK  
TSLHGKPKTDIAAFENGGGDCYVQVRVIFLGVDESEALTEEKEITISKCSNTKDNKDSPH  
PKHSLTTRLVPTTHVLNATENISMKREDPSSMNDVQPVKKPHFKGVKKRKWIYDEPQNF  
PNSGMQRAVQAPRPQNKMSYHRNNKNRNAENASYIHVQRDAVRTVALNAPSRSRPTHGSY  
NKVHANREPKNLSPDKYTSTSYNDSAWRKRIFFSKTYSKSEKIYPEPRRNGSK

>sp|G3V211|C1079\_HUMAN Uncharacterized protein encoded by LINC01619 OS=Homo sapiens GN=LINC01619 PE=4 SV=1

MNVCCSSHPVNEKVWKPSSRWSSKVWSMDEFDLQTACYWFMTRCQKEAGKFGTHRGKPM  
CFVRSLLRVQLLPRTFPANSFVISFFPSLIYPLQVYQLHFESSDKQRAMQFVTEG

>sp|Q8NCF0|C18C\_HUMAN C-type lectin domain family 18 member C OS=Homo sapiens GN=CLEC18C PE=2 SV=2

MLHPETSPGRGHLLAVLLALLGTAWAEVWPPQLQEAPMAGALNRKESFLLLSLHNRLRS  
WVQPPAADMRRLDWSDSLALQARAALCGIPTPSLASGLWRTLQVGWNMQLLPAGLASF  
VEVVSLLWFAEGQRYSHAAGECARNATCTHYTQLVWATSSQLGCGRHLCASAGQAAIEAFVC  
AYSPRGNWEVNGKTIVPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPCRMSQCQNHG  
RLNISTCHCHCPPGYTGRYQVRCSLQCVHGRFREEECSCVCDIGYGAQCATKVHFPFH  
TCDLRIDGDCFMVSSEADTYRARMKCQRKGGVLAQIKSQKVQDILAFYLRLETTNEVI  
DSDFETRNFWIGLTYKTAKDSFRWATGEHQAFSTSAFGQPDNHGFGNCVELQASAAFNWN  
NQRCKTRNRYICQFAQEHISRWGPGS

>sp|Q6UXS0|CL19A\_HUMAN C-type lectin domain family 19 member A OS=Homo sapiens GN=CLEC19A  
PE=2 SV=1

MQRWTLWAAAFLLHSAQAFPTDISISPALPELPLPSLCPLFWMEFKGHCYRFFPLNKT  
WAEADLYCSEFSVGRKSASLASIHSWEENVFVYDLVNSCVPGIPADVWTGLHDHRQVRKQ  
WPLGPLGSSSQDSILI

>sp|P28329|CLAT\_HUMAN Choline O-acetyltransferase OS=Homo sapiens GN=CHAT PE=1 SV=4

MGLRTAKKRGLGGGKWKREEGGTRGRREVRPACFLQSGGRGDPGDVGGPAGNPGCSPH  
PRAATRPPPLPAHTPAHTPEWCGAASAEAEPRRAGPHLCIPAPGLTKTPILEKVPRKMA  
AKTPSSEESGLPKLPVPPQQTLATYLCMRHLVSEEQFRKSAIVQQFGAPGGLGETLQ  
QKLLERQEKATANWVSEYWLNDMYLNNRLALPVNSSPAVIFARQHFPQTDDQLRFAASLIS  
GVLSYKALLDSHSIPTDCAKGQLSGQPLCMKQYYGLFSSYRLPGHTQDTLVAQNSSIMPE  
PEHVIVACCNQFFVLVDVINFRRLSEGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSE  
WAEARTVLVKDSTNRDSLMIERCICLVCLDAPGGVELSDTHRALQLLHGGGYSKNGANR  
WYDKSLQFVVGRDGTGCVVCEHSPFDGIVLVQCTEHLKHVTQSSRKLIRADSVSELPAP  
RRLRWKCSPEIQHGLASSAEKLQRIVKNLDFIVYKFDNYGKTFIKKQKCSPDFAFIQVALQ  
LAFYRLHRRLVPTYESASIRRFQEGRVDNIRSATPEALAFVRAVTDHKAAPASEKLLLL  
KDAIRAQTAYTVMAITGMAIDNHLALRELARAMCKELPEMFMDETYLSNRFLSTSQV  
PTTTEMFCCYGPVVPNGYGACYNPQPETILFCISSFHCKETSSSKFAKAVEESLIDMRD  
LCSLLPPTESKPLATKEKATRPSQGHQP

>sp|Q6UVW9|CLC2A\_HUMAN C-type lectin domain family 2 member A OS=Homo sapiens GN=CLEC2A  
PE=1 SV=2

MINPELRDGRADGFIHRIVPKLIQNWKIGLMCFLSIIITTVCIIMIATWSKHAKPVACSG  
DWLGVRDKCFYFSDTRNWTASKIFCSLQKAELAQIDTQEDMEFLKRYAGTDMHWIGLSR  
KQGDSWKWTNGTTFNWFEIIGNGSFAFLSADGVHSSRGFIDIKWICKPKYFL

>sp|Q9UMR7|CLC4A\_HUMAN C-type lectin domain family 4 member A OS=Homo sapiens GN=CLEC4A  
PE=1 SV=1

MTSEITYAEVRFKNEFKSSGINTASSAASKERTAPHSNTGFPKLLCASLLIFFLLLAIS  
FFIAFVIFQKYSQLEKKTTELVTLECVKKNMPVEETAWSCCPKNWSFSSNCYFI  
STESASWQDSEKDCARMEHLLVINTQEEQDFIFQNLQEESAYFVGLSDPEGQRHWQWVD  
QTPYNESSTFWHPREPSDPNERCVVLNFRKSPKRWGWNVDNCLGPQRSVCEMMKIHL

>sp|P56880|CLD20\_HUMAN Claudin-20 OS=Homo sapiens GN=CLDN20 PE=2 SV=1

MASAGLQLLAFILALSGVSGVLTATLLPNWKVNDVDSNIITAIVQLHGLWMDCTWYSTG  
MFSCALKHSILSLPIHVQAARATMVLACVLSALGICTSTVGMKCTRLGGDRETKSHASFA  
GGVCFMSAGISSLISTVWYTKETIIANFLDLTPESNKHEPGGAIYIGFISAMLLFISGMI  
FCTSCIKRNPPEARLDPPTQQPISNTQLENNSTHNLKDYV

>sp|A6NM45|CLD24\_HUMAN Putative claudin-24 OS=Homo sapiens GN=CLDN24 PE=5 SV=2

MALIFRTAMQSVGLLSLLGWILSIITTYLPHWKNLNLNEMENWTMGLWQTCVIEEV  
GMQCKDFDSFLALPAELRVSRILMFLSNGLGFLGLLVSGFGLDCLRIGESQRDLKRRLLI  
LGGILSWASGITALVPVSWVAHKTVQEFWDENVPDFVPRWEFGAFLGWFAGLSLLGG  
CLLNCACSSHAPLALGHYAVAQMQTQCPYLEDGTADPQV

>sp|P53675|CLH2\_HUMAN Clathrin heavy chain 2 OS=Homo sapiens GN=CLTCL1 PE=1 SV=2

MAQILPVRQEHFQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVTIIDMSDPMA  
PIRRPISAEASAIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMAEEVIFWKWVSVNTVA  
LVTETAVYHWSMEGDSQPMKMFDRHTSLVGCQVIHYRTDEYQKWLLLVGISAQQNRVVGA

MQLYSVDRKVSQPIEGHAAFAEFKMEGNAKPATLFCFAVRNPTGGKLHIIIEVGQPAAGN  
QPFVKKAVDVFFPPEAQNDFPVAMQIGAKHGVIIYLITKYGYLHLYDLESGVCICMNRISA  
DTIFVTAPHKPTSGIIGVNNKKGQVLSVCVEEDNIVNYATNVLQNPDLGLRLAVRSNLAGA  
EKL FVRKFNTLFAQGSYAEAAKVAASAPKGI LRTRET VQKFQSI PAQSGQASPLLQYFGI  
LLDQGGQLNKLESELELCHLV LQQGRKQLLEKWLKEDKLECSEELGDLVKT TDPMLALSVYL  
RANVPSKVIQCFAETGQFQKIVLYAKKVGYPDWIFLLRGVMKISPEQGLQFSRMLVQDE  
EPLANISQIVDIFMENSLIQQCTSFLLDALKNNRPAEGLLQTWLLEMNLVHAPQVADAIL  
GNKMFTHYDRAHIAQLCEKAGLLQQALEHYTDLYDIKRAVVHTHLLNPEWLVNFFGSLSV  
EDSVECLHAML SANIRQNLQLCVQVASKYHEQLGTQALVELFESFKSYKGLFYFLGSIVN  
FSQDPDVHLKYIQAACKTGQIKEVERICRESSCYNPERVKNFLKEAKLTDQLPLIIVCDR  
FGFVHDLVLYLRNNLQRYIEIYVQKVNPSRTPAVIGLLD VDCSEEV IKHLIMAVRGQF  
STDELVAEVEKRNRLKLLL PWLESQIQEGCEEPATHNALAKIYIDSNN SPECFLRENAYY  
DSSVVG RYCEKRDPHLACVAYERGQCDEL IKVCNENSLFKSEARYLVCRKDPELWAHVL  
EETNPSRRQLIDQVVQTALSETRDPEEISVTVKAFMTADLPNELIELLEKIVLDNSVFSE  
HRNLQNL ILTAIKADRTRVMEYISRLDNYDALDIASIAVSSALYEEAFTVFHKFDMNAS  
AIQV LIEHIGNLDRAYEFAERCNEPAVWSQLAQAQLQKDLVKEAINS YIRGDDPSSYLEV  
VQSASRSNNWEDLVKFLQMARKKGRESYIETELIFALAKTSRVSELEDFINGPNNAHIQQ  
VGDRCYEEGMYEAAKLLYSNVSNFARLASTLVHLGEYQAAVDNSRKASSTRTWKEVCFAC  
MDGQEFRFAQLCGLHIVIHADLEELMCYYQDRGYFEELILLLEAALGLERAHMGMTTEL  
AILYSKFQPKMLEHLELFWSRVNIPKVLRAAEQAHLWAE LVFLYDKYEEYDNAVLTMM S  
HPTEAWKEGQFKDIIITKVANVELCYRALQFYLDYKPLLINDLLLVLSPRLDHTWTVSFFS  
KAGQLPLVKPYLRSVQSHNNKSVNEALNHLLTEEEDYQGLRASIDAYDNFDNISLAQQLE  
KHQLMEFRCIAAYLYKGNWWAQSVELCKKDHLKYDAMQHAAESRDAELA QKLLQWFLEE  
GKRECFAACLFTCYDLLRPDMVLELAWRHNLVDLAMPYFIQVMREYLSKVDKLDALESLR  
KQEEHVTEPAPLVDFDGH E

>sp|000299|CLIC1\_HUMAN Chloride intracellular channel protein 1 OS=Homo sapiens GN=CLIC1  
PE=1 SV=4

MAEEQPQVELFVKAGSDGAKIGNCPFSQRLFMVLWLKGVTFNVT TDTKRRTETVQKLCP  
GGQLPFLLYGTEVHTDTNKIEEFLEAVLCPPRYPKLAALNPESNTAGLDIFAKFSAYIKN  
SNPALNDNLEKGLLKALKVLDNYLTSPLPEEVD ETSAEDEGVSQRKFLDGNELTLADCNL  
LPKLHIVQVVCKKYRGFTIPEAFRGVHRYLSNAYAREEFAS TPCDDEEIELAYEQVAKAL  
K

>sp|015247|CLIC2\_HUMAN Chloride intracellular channel protein 2 OS=Homo sapiens GN=CLIC2  
PE=1 SV=3

MSGLRPGTQVDPEIELFVKAGSDGESIGNCPFCQRLFMILWLKGVKFNVT T VDMTRKPEE  
LKDLAPGTNPPFLVYNKELKTDFIKIEEFLEQTLAPPRYPHLSPKYKESFDVGCNLFAKF  
SAYIKNTQKEANKNFEKSLLEKFKRLDDYLNTPLLDEIDPD SAEEPPVSRRLFLDGDQLT  
LADCSLLPKLNIKVAACKYRDFDIPA EFSGVWRYLHNAYAREEFTHTCPEDKEIENTYA  
NVAKQKS

>sp|Q9Y696|CLIC4\_HUMAN Chloride intracellular channel protein 4 OS=Homo sapiens GN=CLIC4  
PE=1 SV=4

MALSMPLNGLKEEDKEPLIELFVKAGSDGESIGNCPFSQRLFMILWLKGVVFSVTTVDLK  
RKPADLQNLAPGTHPPFITFNSEVKTDVNKIEEFLEEVLCPPKYLKLSPKHPESNTAGMD  
IFAKFSAYIKNSRPEANEALERGLLKTQLKDEYLSNPLPDEIDENSME DIKFSTRKFLD

GNEMTLADCNLLPKLHIVKVVAKKYRNFDIPKEMTGIWRYLTNAYSRDEFTNTCPSDKEV  
EIAYSDDVAKRLTK

>sp|Q7Z7G1|CLNK\_HUMAN Cytokine-dependent hematopoietic cell linker OS=Homo sapiens  
GN=CLNK PE=1 SV=2

MNRQGNRKTKEGSNDLKFQNFSLPKNRSWPRINSATGQYQRMNKPLLDWERNFAAVLDG  
AKGHSDDDDYDDPELRMEETWQSIKILPARPIKESEYADTHYFKVAMDTPLPLDTRTSISI  
GQPTWNTQTRLERVDKPIKSDVRSQNIKGDAVSRKNKIPLPPRPLITLPKKYQPLPPEP  
ESSRPPLSQRHTFPEVQRMPSQISLRDLSEVLEAEKVPHNQRPKPESTHLENQNTQEIPL  
AISSSSFSTSNHSVQNRDHRGGMQPCSPQRCQPPASCSPHENILPYKYTSWRPPFPKRSD  
RKDVQHNEWYIGEYSRQAVEEAFMKENKDGSLVRDCSTKSKEEYPVLAVFYENKVYNVK  
IRFLERNQQFALGTGLRGDEKFDSDVEDIEHYKNFPIILIDGKDKTGVHRKQCHLTQPLP  
LTRHLLPL

>sp|Q96KA5|CLP1L\_HUMAN Cleft lip and palate transmembrane protein 1-like protein OS=Homo  
sapiens GN=CLPTM1L PE=1 SV=1

MWSGRSSFTSLVVGVFVVVYVHTCWVMYGIVYTRPCSGDANCIQPYLARRPKLQLSVYTT  
TRSHLGAENNIDLVLNVEDFDVESKFERTVNVSVPKKTRNNGTLYAYIFLHHAGVLPWHD  
GKQVHLVSPLTTYMVPKPEEINLLTGESDTQQIEAEKKPTSALDEPVSHWRPRLALNVMA  
DNFVFDGSSLPADVHRMVKMIQLGKTVHYLPILFIDQLSNRVKDLVINRSTTELPLTVS  
YDKVSLGRLRFWIHMQDAVYSLQQFGFSEKDADEVKGFVDNLYFLALTFFVAAFHLLF  
DFLAFKNDISFWKKKSMIGMSTKAVLWRCFSTVVIFLFLDEQTSLLVLPAGVGAAIE  
LWKVKKALKMTIFWRGLMPEFGFTYSESERKTEEYDTQAMKYSYLLYPLCVGGAVYSL  
LNIKYKSWYSWLINSFVNGVYAFGFLFMLPQLFVNYKLKSAHLPWKAFTYKAFNTFIDD  
VFAFIITMPTSHRLACFRDDVVFVLYQRWLYPVDKRRVNEFGESYEKATRAPHTD

>sp|Q16740|CLPP\_HUMAN ATP-dependent Clp protease proteolytic subunit, mitochondrial  
OS=Homo sapiens GN=CLPP PE=1 SV=1

MWPGILVGGARVASCYPALGPRLAAHFPAQRPPQRTLQNGLALQRC LHATATRALPLIP  
IVVEQTGRGERAYDIYSRLLRERIVCVMGPIDDSVASLVIAQLLFLQSESNNKPIHMYIN  
SPGGVVTAGLAIYDYMQYILNPICITWCVGQAASMSLLAAGTPGMRHSLPNSRIMIHQP  
SGGARGQATDIAIQAEIIMKLKKQLYNIYAKHTKQSLQVIESAMERDRYMSPMEAQEFGL  
LDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

>sp|Q9Y232|CDYL1\_HUMAN Chromodomain Y-like protein OS=Homo sapiens GN=CDYL PE=1 SV=2

MTFQASHRSAWGKSRKKNWQYEGPTQKLFLKRNNVSAPDGPSPDSISVSSEQSGAQPPA  
LQVERIVDKRKNKKGKTEYLVRWKGYDSEDDTWEPEQHLVNCEEYIHD FNRRHTEKQKES  
TLTRTNRTSPNNARKQISRSTNSNFSKTS PKALVIGKD HESKNSQLFAASQKFRKNTAPS  
LSSRKNMDLAKSGIKILVPKSPVKSRTAVDGFQSESPEKLDPVEQGEDTVAPEVAAEKP  
VGALLGPGAERARMGSRPRIHPLVPQVPGPVTAAATGLAVNGKGTSPFMDALTANGTTN  
IQTSVTGVTASKRKFIDRRDQPFDKRLRFSVRQTESAYRYRDIVVRKQDGFTHILLSTK  
SSENNSLNPEVMREVQSALSTAAADSKLVLLSAVGSVFCCGLDFIYFIRRLTDDRKRRES  
TKMAEAI RNFNFTFIQFKKPIIVAVNGPAIGLGASILPLCDVVWAN EKAWFQTPYTTFGQ  
SPDGCSTVMFPKIMGASANEMLLSGRKLTAQEACGKGLVSQVFWPGTFTQEVMVRIKEL  
ASCNPVVEESKALVRCNMKMELEQANERECEVLKKIWGSAQGMSMLKYLQRKIDEF

>sp|C9J3I9|CE058\_HUMAN Putative uncharacterized protein C5orf58 OS=Homo sapiens  
GN=C5orf58 PE=4 SV=1

MREIAEILPAQEKVEARIDLKMGKKRVTDHKLNVDKVIKNINTISSELKKIKELSQLLLC

DLILHFNHPIKTENLAEERNPLFEESKISDVSLVSNSFSI

>sp|F2Z3F1|CE067\_HUMAN Uncharacterized protein C5orf67 OS=Homo sapiens GN=C5orf67 PE=4 SV=1

MKRIFYKHKRRAPVFKEPEHGYQSLPELVLPVPAQPLVCLGDYRTPDPGGLFPWSLRLMM  
PGAWTKLPGDGSVPEKGKHGILGAQQEHPGLNVSSPFSSPWTCYLSGHQPQNNNSPEL  
QVKEILL

>sp|A8MTB9|CEA18\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 18 OS=Homo sapiens GN=CEACAM18 PE=3 SV=4

MDLSRPRWSLWRRVFLMASLLACGICQASGQIFITQTLGIKGYRTVVALDKVPEDVQEYS  
WYWGANDSAGNMIISHKPPSAQQPGPMYTGRERNREGSLLIRPTALNDTGNYTVRVVAG  
NETQRATGWLEVLGSLNLGISVNASSLVENMDSVAADCLTNVTNITWYVNDVPTSSSDR  
MTISPDGKTLVILRVSRDYRTIQCMIESFPEIFQRSERISLTVAYGPDYVLLRSNPDDFN  
GIVTAEIGSQVEMECICYSFLDLKYHWIHNGSLLNFSDAKMNLSSLAWEQMGYRCTVEN  
PVTQLIMYMDVRIQAPHEDLTCCPQRFLHLRIHGDVPHHADSAGWRLHLWSPDPCSDQPL  
LNQDKSGSMSVHPRPEDKTRRASR

>sp|P53567|CEBPG\_HUMAN CCAAT/enhancer-binding protein gamma OS=Homo sapiens GN=CEBPG PE=1 SV=1

MSKISQQNSTPGVNGISVIHTQAHASGLQQVPQLVPAGPGGGGKAVAPSKQSKKSSPMDR  
NSDEYRQRRERNMMAVKKSRLKSKQAQDTLQRVNQLKEENERLEAKIKLLTKELSVLKD  
LFLEHAHNLDNVQSISTENTTADGDNAGQ

>sp|Q9BUX1|CHAC1\_HUMAN Glutathione-specific gamma-glutamylcyclotransferase 1 OS=Homo sapiens GN=CHAC1 PE=1 SV=2

MGGAQLELPSGARPGVCVRRSFRAHAGDQPRRPPGPIPVPGTMKQESAAPNTPPTSQSPT  
PSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSDKMP  
GRVVTLLLEDHEGCTWGVAYVQVQGEQVSKALKYLVNREAVLGGYDTKEVTFYPQDAPDQPL  
KALAYVATPQNPYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHL  
AAIVDAVGTMPCFCPTEQALALV

>sp|Q6NUI6|CHADL\_HUMAN Chondroadherin-like protein OS=Homo sapiens GN=CHADL PE=1 SV=2

MEGPRSSTHVPLVPLLVLLVLLAPARQAAQRCQACICDNSRRHVACRYQNLTEVPDAI  
PELTQRLDLQGNLLKVIPAAAFQGVPHLTHLDLRHCEVELVAEGAFRGLGRLLLLNLASN  
HLRELQAEALDGLSLRRELEGNAL EELRPGTFGALGALATLNLAHNALVYLPAMAFQG  
LLRVRWLRLSHNALSVLAPEALAGLPALRRSLHHNELQALPGPVLSQARGLARLELGHN  
PLTYAGEEDGLALPGLRELLLDGGALQALGPRAFAHCPRLHTLDLRGNQLDTPPLQGPG  
QLRRLRLQGNPLWCGCQARPLLEWLARARVRS DGACQGPRLRGEALDALRPWDLRCPGD  
AAQEEEELEERAVAGPRAPRGPGRGPEERAVAPCRACVCPESRHSSCEGGLQAVP  
RGFPSDTQLLDLRRNHFPSPRAAFPGLGHLVSLHLQHCGIAELEAGALAGLGRLIYLYL  
SDNQLAGLSAAALEGAPRLGYLYLERNRFLQVPGAALRALPSLFSHLQDNAVDR LAPGD  
LGRTRALRWVYLSGNRITEVSLGALGPARELEKLHLDRNQLREVPTGALEGLPALLELQL  
SGNPLRALRDGAFQPVGRSLQHLFLNSSGLEQICPGA FSGLGPGLSLHLQKNQLRALPA  
LPSLSQLELIDLSSNPFHCDCQLPLHRWLTGLNLRVGATCATPPNARGQRVKA AA VFE  
DCPGWAARKAKRTPASRPSARRTPIKGRQCGADKVGKEKGRL

>sp|Q8TDIO|CHD5\_HUMAN Chromodomain-helicase-DNA-binding protein 5 OS=Homo sapiens GN=CHD5 PE=1 SV=1

MRGPVGTEELPRLFAEEMENEDEMSEEDGGLEAFDDFFPVEPVSLPKKKKPKKLKENK



CKGKRKKKEGSNDELSENEEDLEEKSESEGS DYSPNKKKKKKLKDKEKKAKRKKKDEDE  
DDNDGCLKEPKSSGQLMAEWGLDDVDYLFSEEDYHTLTNYKAFSQFLRPLIAKKNP KIP  
MSKMMTVLGAKWREFSANNPFKGSSAAAAAAVAAVETVTISPPLAVSPPQVPQVPPIR  
KAKTKEGKGPVRRKIKGSKDGKKKGKKTAGLKFRFGGISNKRKKGSSEEDEREESD  
FDSASIHSAVRSECSAALGKSKRRRKKRIDDDG DYETHQDYCEVCQQGGEIILCDT  
CPRAYHLVCLDPELEKAPEGKWSCPHCEKEGIQWEPKDDDDDEEEEGGCEEEEDDHMEFCR  
VCKDGCELLCCDACPSSYHLHCLNPPLPEIPNGEWLCPRCTCPPLKGKVQRILHWRWTEP  
PAPFMVGLPGPDVEPSLPPPKLEGIPEREFFVKWAGLSYWHCSWVKELQLELYHTVMYR  
NYQRKNDMDEPPFDYSGDEDEGKSEKRKNKDPLYAKMEERFYRYGIKPEWMMIHRILNH  
SFDKKGDVHYLIKWKDLPYDQCTWEIDIDIPYYDNLKQAYWGHREMLGEDTRLPKRLL  
KKGKKLRDDKQEKPPDTPIVDPTVKFDKQPWYIDSTGGTLHPYQLEGLNWLRFSWAQGT  
TILADEMGLGKTQTIVFLYSYKEGHSKGPYLVSAPLSTIINWEREFEMWAPDFYVVTY  
TGDKESRSVIRENEFSFEDNAIRSGKKVFRMKKEVQIKFHVLLTSYELITIDQAILGSIE  
WACLVD EAHRLKNNQSKFFRVLSYKIDYKLLLTGTPLQNNLEELFHLNFLTPERFNN  
LEGFLEEFADISKEDQIKKLHDLGPHMLRRLKADVFNMPAKTELIVRVELSQMQKKYY  
KFILTRNFEALNSKGGGNQVSLNIMMDLKKCCNHPYLPVAAVEAPVLPNGSYDGSSLV  
KSSGKMLMLQKMLKKLRDEGHRVLI FSQMTKMLDLEDFLEYEGYKYERIDGGITGGLRQ  
EAIDRFNAPGAQQFCFLSTRAGGLGINLATADTVIIYDSDNPHNDIQAFSRAHRIGQN  
KKVMIYRFVTRASVEERITQVAKRKMMLTHLVVRPGLGSKSGSMTKQELDDILKFGTEEL  
FKDDVEGMMSQGQRVPVTPIPDVQSSKGGNLAASAKKKHGSTPPGDNKDVEDSSVIHYDDA  
AISKLLDRNQDATDDTELQNMNEYLSSFKVAQYVVREEDGVEEVEREIIKQENVDPDYW  
EKLLRHHYEQQQEDLARNLGKGKRIKQVNYNDASQEDQEWQDELSDNQSEYSIGSEDED  
EDFEERPEGQSGRRQSRRLKSDRDKPLPPLARVGGNIEVLGFNARQRKAFLNAIMRWG  
MPPQDAFNSHWLVRDLRGKSEKEFRAYVSLFMRHLCEPGADGAETFADGVPREGLSRQH  
LTRIGVMSLVRKKVQEFEHVNGKYSTPDLIPEGPEGKKSGEVISSDPNTPVPASPAHLLP  
APLGLPDKMEAQLGYMDEKDPGAQKPRQPLEVQALPAALDRVESEDKHESPASKERAREE  
RPEETEKAPPSPEQLPREEVLPEKEKILDKLELSLIHSRGDSSELRPDDTKAEKEPIET  
QQNGDKEEDEGKKEDKKGKFKFMFNIADGGFTELHTLWQNEERA AVSSGKIYDIWHRRH  
DYWLLAGIVTHGYARWQDIQNDPRYMILNEPFKSEVHKGNYLEMKNKFLARRFKLLEQAL  
VIEEQLRRAAYLNMTQDPNHPAMALNARLAEVECLAESHQHL SKESLAGNKPANAVLHKV  
LNQLEELLSDMKADVTRLPSMLSRI PPVAARLQMSERSILSRLTNRAGDPTIQQGAFGSS  
QMYSNNFGPNFRGPGPGGIVNYNQMPLGPYVTDI

>sp|Q9HCK8|CHD8\_HUMAN Chromodomain-helicase-DNA-binding protein 8 OS=Homo sapiens GN=CHD8  
PE=1 SV=5

MADPIMDLFDDPNLFGLDLSTDDSFNQVTQDP IEEALGLPSSLDQLMNQDGGGGDVGN  
SSASELVPPPEETAPTELSKESTAPAPESITLHDYTTQPASQEQAQPVLTSTPTSGLL  
QVSKSQEILSQGNPFMGVSATAVSSSSAGGQPPQSAPKIVILKAPPSSSVTGAHVAQIIQA  
QGITSTAQPLVAGTANGGKVTFTKVLGTPLRPGVSIVSGNTVLAAKVPGNQAAVQRIVQ  
PSRPVKQLVLQPVKGSAPAGNPGATGPPLKPAVTLTSTPTQGESKRITLVLQQPQSGGPQ  
GHRHVVLGSLPGKIVLQGNQLAALTQAKNAQQGQPAKVVTIQLQVQQPQQKIQIVQPPSS  
QPQPQPPSTQPVTLSVVQQAQIMGPGQSPGQRLSVPVKVVLQPQAGSSQGASSGLSVVK  
VLSASEVAALSSPASSAPHSGGKTGMEENRRLEHQKKQEKANRIVAEIARARARGEQNI  
PRVLNEDELPSVRPEEEGKKRRKKSAGERLKEEKPKSKTSGASKTKGSKLNTITPVV  
GKKRKRNTSSDNSDEVMPAQSPREDEESSIQKRRSNRQVKKKYTEDLDIKITDDEEEE

EVDVTGPIKPEPILPEPVQEPDGETLPSMQFFVENPSEEDAAIVDKVLSMRIVKKELPSG  
QYTEAEFFVVKYKNYSYLHCEWATISQLEKDKRIHQKLKRFKTKMAQMRHFFHEDEEPFN  
PDYVEVDRILEDSESHIDKDNPEVVIYYLVKWCSLPYEDSTWELKEDVDEGKIREFKRIQS  
RHPCLKRVNRPPQASAWKLELSHEYKNRNQLREYQLEGVNWLLFNWYNRQNCILADEMGL  
GKTIQSI AFLQEYVNVGIHGPFVLIAPLSTITNWEREFNTWTEMNTIVYHGSLASRQMIQ  
QYEMYCKDSRGRLIPGAYKFDALITTFEMILSDCPRELIEWRCV IIDEAHRLKNRNCKL  
LDLSKHMDLEHKVLLTGTP LQNTVEELFSL LHFLEPSQFPSESEFLKDFGDLKTEEQVQK  
LQAILKPMMLRRLKEDVEKNLAPKQETIIEVELTNIQKKYYRAILEKNFSFLSKGAGHTN  
MPNLLNTMMELRKCCNHPYLINGAEEKILTEFREACHIPHD FHLQAMVRSAGKLV LIDK  
LLPKLKAGGHKVLIFSQMVRCLEIDEDYLIQRRYLYERIDGRVRGNLRQAAIDRF SKPDS  
DRFVFLLC TRAGGLGINLTAADTCIIFDS DWNPNQDLQAQARCHRIGQSKAVKVYRLITR  
NSYEREMFDKASLKLGLDKAVLQSMSGRDGNITGIQQFSKKEIEDLLRK GAYAAIMEEDD  
EGSKFCEEDIDQILLRRTTTITIESEGKGSTFAKASFVASENRTDISLDDPNFWQKWAKK  
ADLMDLLNSKNLVIDTPRVKQTRHFSTLKDDDLVEFSDLESEDDERPRSRRHRHHA  
YGRDTCFRVEKHLVYGWGRWRDILSHGRFKRRMTERDVETICRAILVYCLLHYRGDENI  
KGF IWDLISPAENGKT KELQNHSGLSIPVPRGRKGKKVKSQSTFDIHKADWIRKYNPDTL  
FQDESYKKHLKHQCNKVLLRVRMLYYLRQEVIGDQAEKVLGGAIASEIDIWFPVVDQLEV  
PTTWWDSEADKSLIGVFKHGYEKYNTMRADPALCFLEKAGRPDDKAIAAEHRVLDNFS  
DIVEGVDFDKCEDPEYKPLQGPPKDQDDEGDPLMMDEEISVIDGDEAQTQQPGHLFWP  
PGSALTARLRLVTAYQRSYKREQMKIEAAERGD RRRRRCEAAFKLKEIARREKQQRWTR  
REQTDFYRVVSTFGVEYDPTMQFHWDRFRTFARLDKKTDESLTKYFHGFVAMCRQVCRL  
PPAAGDEPPDPNLFIEPITEERASRTLYRIELLRRLREQVLCHPLLEDRLALCQPPGPPEL  
PKWWEVVRHDGELLGAARHGVSQTD CNIMQDPDFSFLAARMNYMQNHQAGAPAPSLSRC  
STPLLHQYTSRTASPLLRPDAPVEKSPEETATQVPSLES LTKLEHEVVARSRPTPQD  
YEMRVSPSDTTPLVSRVPPVKLEDEDDSDSELDSLSPSSSSSSSSSSSSSTDESED  
EKEEKLTDQSRSKLYDEESLLSTMSQDGFNEDGEQMTPELLLLQERQRASEWPKD RVL  
INRIDLVCQAVLSGKWPSRRSQEMVTGGILGPGNHLLDSPSLTPGEYGDSPVPTPRSSS  
AASMAEEEASAVSTAAQFTKLRRGMDEKEFTVQIKDEEGLKLT FQKHKL MANGVMGDGH  
PLFHKKKGNRKKLVELEVECMEEP NHLDVDLETRIPVINKVDGTL LVGEDAPRRAELEMW  
LQGHPEFAVDPRFLAYMEDRRKQKWQRCKKNKAELNCLGMEPVQTANSRNGKKGHHTET  
VFNRVLP GPIAPESSKKRARRMPDLSKMMALMQGGSTGSLSHNTFQHSSSGLQSVSSL  
GHSSATSASLPFMPFVMGGAPSSPHVDSSTMLHHHHHHHPH HHHHHHPGLRAPGYPSSP  
VTTASGTTLRPLQPEEDDDEDEDDDDLSQGYDSSERDFSLIDDPMPANSDSSEDA  
D

>sp|Q9H2X0|CHRD\_HUMAN Chordin OS=Homo sapiens GN=CHRD PE=1 SV=2  
MPSLPAPPAPLLLLGLLLLGS RPARGAGPEPPVLP IRSEKEPLPVRGAAGCTFGGKVYAL  
DETWHPD LGEPFGVMRCVLCACEAPQWGRRTRGPRV SCKNIKPECPTACGQPRQLPGH  
CCQTC PQERSSSERQPSGLSFEYPRDPEHRSYSDRGEPGAEEARAGDGHTDFVALLTGPR  
SQAVARARVSLLRSSLRFSISYRRLDRPTRIRFSDSNGSVLFEHPAAPTQDGLVCGVWRA  
VPRLSRLRLRAEQLHVALVTLTHPSGEVWGPLIRHRALAAETFSAILTLEGPPQQGVGGI  
TLLTSLDTEDSLHFLLLFRGLLEPRSGGLTQVPLRLQILHQGQLRELQANVSAQEPGFA  
EVLPNLTVQEMDWLVLGELQMALEWAGRPGLRISGHIAARKSCDVLQSVLCGADALIPVQ  
TGAAGSASLTLLNGNSLIYQVQVVGTSSEVVAMTLETKPQRDQRTVLCHMAGLQPGGHT  
AVGICPGLGARGAHMLLQNELFLNVG TKDFPDGELRGHVAALPYCGHSARHDTLPVPLAG

ALVLPVVKQAAGHAWLSLDTHCHLHYEVLLAGLGGSEQGTVTAHLLGPPGTPGPRRLK  
GFYGSEAQGVVKDLEPELLRHLAKGMASLMITTKGSPRGELRGQVHIANQCEVGGLRLEA  
AGAEGVRALGAPDTASAAPPVVPGLPALAPAKPGGPRPRDPNTCFEGQQRPHGARWAP  
NYDPLCSLCTCQRRTVICDPVVCPPSPCPHPVQAPDQCCPVCPEKQDVRLPLGLPRSRDP  
GEGCYFDGDRSWRAAGTRWHPVVPFGLIKCAVCTCKGGTGEVHCEKVQCPRLACAQPVR  
VNPTDCKQCPVGSAGHPQLGDPMQADGPRGCRFAGQWFPESQSWHPSVPPFGEMSCITC  
RCGAGVPHCERDDCSLPLSCSGKESRCCSRCTAHRPAPETRTDPELEKEAEGS

>sp|Q9Y4C5|CHST2\_HUMAN Carbohydrate sulfotransferase 2 OS=Homo sapiens GN=CHST2 PE=1 SV=2

MSRSPQRALPPGALPRLQAAPAAAPRALLPQWPRRPGRWPASPLGMKVFRRKALVLC  
GYALLLVLTMLNLLDYKWHKEPLQCCNPDGPLGAAAGAAGGSWGRPGPPPAGPPRAHARL  
DLRTPYRPAAAVGAAPAAAAGMAGVAAPPNGTRGTGGVGDQRQLVYVFTTWRSRSSFF  
GELFNQNPVFFLYEPVWHVWQKLYPGDAVSLQGAARDMLSALYRCDLSVFQLYSPAGSG  
GRNLTTLGIFGAATNKVVCSSPLCPAYRKEVVGLVDDRVCCKCPPQRLARFEEECRKYRT  
LVIKGVRVFDVAVLAPLLRDPALDLKVIHLVRDPRAVASSRIRSRHGLIRESLQVVRSD  
PRAHRMPFLEAAGHKLGAKEGVGGPADYHALGAMEVICNSMAKTLQTALQPPDWLQGHY  
LVVRYEDLVGDPVKTLRRVYDFVGLLVSPEMEQLFALNMTSGSGSSSKPFVVSARNATQAA  
NAWRTALTFFQIKQVEEFCYQPMAVLGYERVNSPEEVKDLSTLRLKPR

>sp|Q8NCG5|CHST4\_HUMAN Carbohydrate sulfotransferase 4 OS=Homo sapiens GN=CHST4 PE=1 SV=2

MLLPKKMKLLFLVSQMAILALFFHMYSHNISSLSMKAQPERMHVLVSSWSRSSSVFGQ  
LFGQHPDVFYLMEPAAWHVWMTFKQSTAWMLHMAVRDLIRAVFLCDMSVFDAYMEPGPRRQ  
SSLFQWENSRLCSAPACDIIPQDEIIPRAHCRLLCSQQPFVVEKACRSYSHVVLKEVR  
FFNLQSLYPLLDPSLNLIHVLVRDPRAVFRSRERTKGDLMIDSRIVMQHEQKLKED  
QPYVVMQVICQSLEIYKTIQSLPKALQERYLLVRYEDLARAPVAQTSRMYEFVGLFLP  
HLQTVVHNITRGKMGDHAFTNARDALNVSQAWRWSLPYEKVSRLQKACGDAMNLLGYR  
HVRSEQEQRNLLDLLSTWTVPEQIH

>sp|Q9H2A9|CHST8\_HUMAN Carbohydrate sulfotransferase 8 OS=Homo sapiens GN=CHST8 PE=1 SV=2

MTLRPGTMRLACMFSSILLFGAAGLLFISLQDPTLAPQQVPGIKFNIRPQPHDLPP  
GGSQDGLKEPTERTVRLDSSGAPGRNLPAPDQPQPPLQRGTRLRLRQRRRLLIKKMP  
AAATIPANSSDAPFIRPGPTLDGRWVSLHRSQKERKVMQEACAKYRASSRRRAVTPRH  
VSRIFVEDRHRVLYCEVPKAGCSNWKRVLMVLAGLASSTADIQHNTVHYGSALKRLDTFD  
RQGILHRLSTYTKMLFVREPFERLVSAFRDKFEHPNSYYHPVFGKAILARYRANASREAL  
RTGSGVRFPFVQYLLDVHRPVGMDIHWHDVSRCLSPCLIDYDFVGKFESMEDDANFFLS  
LIRAPRNLTFRPKDRHSQEARTTARIAHQYFAQLSALQRQRTYDFYMDYLMFNYSKPF  
ADLY

>sp|Q7L1S5|CHST9\_HUMAN Carbohydrate sulfotransferase 9 OS=Homo sapiens GN=CHST9 PE=2 SV=2

MQPSEMVMNPKQVFLSVLIFGVAGLLLFMYLQVWIEEQHTGRVEKRREQKVTSGWGPVKY  
LRPVPRIMSTEKIQEHITNQNPKFHMPEDVREKKENLLNSERSTRLLTKTSHSQGGDQA  
LSKSTGSPTEKLEKRQGAKTVFNKFSNMNWPVDIHPLNKSLLVKNKWKTEETQEKRRS  
FLQEFCKKYGGVSHHQSHLFHTVSRIYVEDKHKILYCEVPKAGCSNWKRLMLVNLGLASS  
AYNISHNAVHYGHLKKLDSFDLKGITYRLNTYTKAVFVRDPMERLVSAFRDKFEHPNSY  
YHPVFGKAIKKYRPNACEEALINGSGVKFKEFIHYLLDSHRPVGMDIHWKVSCLKCYPC  
LINYDFVGKFETLEEDANYFLQMIQAPKELKFPNFKDRHSSDERTNAQVVRQYLKDLTRT  
ERQLIYDFYYLDYLMFNYYTTPFL

>sp|Q7LFX5|CHSTF\_HUMAN Carbohydrate sulfotransferase 15 OS=Homo sapiens GN=CHST15 PE=1 SV=1

MRHCINCCIQLLPDGAHKQQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEV  
RTEGENENWGGFLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFPSNP  
SLMDSNPSTKEHHHQSSVNNISYMKDYPsikLIINSITTRIEFTTRQLPDLEDLKKQE  
LHMFSVIPNKFLPNKSPCWYEEFSGQNTTDPYLTNSYVLYSKRFRSTFDALRKAFWGHL  
AHAGKHFRRLCLPHFYIIGQPKCGTTDLYDRLRLHPEVKFSAIKEPHWWTRKRFIVRL  
RDGLRDRYPVEDYLDLFLAAHQIHQGLQASSAKEQSKMNTIIIGEASASTMWDNNAWTF  
FYDNSTDGEPPFLTQDFIHAFQPNARLIVMLRDPVERLYSDYLYFASNKSADDFHEKVT  
EALQLFENCMLDYSLRACVYNNTLNNAMPVRLQVGLYAVYLLDWLSVFDKQQFLILRLED  
HASNVKYTMHKVFQFLNLGPLESEKQALMTKSPASNARRPEDRNLGPMWPITQKILRDFY  
RPFNARLAQVLADEAFWKT

>sp|A6NGG3|CI092\_HUMAN Putative uncharacterized protein C9orf92 OS=Homo sapiens GN=C9orf92 PE=4 SV=1

MARFQRTKEREEDRCSLNIYYVRNTTQGTAPACVGKRMQPSPTGKGGKCTVHGLTRKIH  
NVQPNLQSPILSAACVD

>sp|Q5BN46|CI116\_HUMAN UPF0691 protein C9orf116 OS=Homo sapiens GN=C9orf116 PE=1 SV=1

MAEECPRACAEPVAPKATAPPERTSDYYRVSADLPGRFNNPGWFRGYRTQKAVSVYRTSN  
QAYGSRAPTVHEMPKVFYPNSNKFSSQLAAGGMFRNNTLVYLEKSIVTGPDNCITSCDR  
LNFHPSYNINRPSICD

>sp|Q5VYM1|CI131\_HUMAN Uncharacterized protein C9orf131 OS=Homo sapiens GN=C9orf131 PE=2 SV=3

MEWLLEDLLGAKGDMGLLWGQLTHALACRHCSSCFQSPGNLVTFLFVWVQIQRWWQLG  
RLRQLHPWCSGNMVQKELPLLHRVAFLDHLCKQKSEVEEEEGEEEGEDEASLDPLKPC  
SPTKEAPTGEQATPAPPQPSGSEGLLKAIGIPEQTMQPVSPSRSPFIQILTSFPVRH  
KIASGNRQQQRKSQLFWGLPSLHSESLEAIFLSSGGPSPLKWSVCSSVFFNKLAFLPRSN  
LLLQYHSSAQFSTHGAHTMEDLEGMAPDPQLPPPSSPSVSSLLLHLRPFVVDHKGVL  
GAEAPTQSPGTSPLEVLPGYETHLETTGHKKMPQAFEPMPPPCQSPASLSEPRKVSPEG  
GLAISKDFWGTGYREKPAQSESSMPVPCPLDSLPELQRESSLEDPSRYKPQWECRENS  
GNLWAFESPVLDLNPESGTSPECVPPASETPWKGMQSRENIWVPADPVSPSLPSVPLL  
ESLVMGPQGVLESKALWETMGQKENLWASDSPDPVHSTPPTTLMEPHRINPGECLATSE  
ATWKDTEHSRNSASRPSLALSPPPALAPELLRVRSMGVLSDSEARCGDIQKTKNSWAS  
KHPACNLPQDLHGASPLGVLSDSQSIGEMEQQENCVPVFPGRGSSPSSNSVSKSHVSEP  
IADQSNYKPDGEAVEQRKNHWATELPAPSSLSTPLPEPHIDLELVVRNVQQREVPQGPSP  
LAVDPLHPVPQPPTLAEAVKIERTHPGLPKGVTCPGVKAEP LSQRWTVPELLTHPGIHA  
WQWSRELKLRLKKLRQSPASRAPGPSQSFCSPISSSTIPDFWGLPSCPPQQIYPPNCP  
HSSSCHPQEVQRTVPQPVQSSHCHHFQSSSQLPQESGRAEQGSQRGEKMKGMVSVQVPS  
QGPCVHMEAGVDYLSPGGEPSSNSKVLVSGKRKDKASASSAKKREHPRKPKAGDHRRGT  
ARLGLSTVTGKNHPAQARSLVEAPVSTFPQRSQHRGQSSQHTALPQLLLPKASGPQDQPE  
AGRRASDILTPRHCKHCPWAHMEKYL SFPTLKASLTRGLQKVLAKCLDNHRPLPTKSSQ

>sp|Q5TBE3|CI153\_HUMAN Uncharacterized protein C9orf153 OS=Homo sapiens GN=C9orf153 PE=4 SV=1

MFLTGDTSPAEDNREATLPQCSLPELYACIENFNKESKSNLLKMHGISLNEAQEVLARN  
LNVMSFTRGADVGRDLQPVISVNMKNKPGKHKRTPSPKINK

>sp|Q96Q77|CIB3\_HUMAN Calcium and integrin-binding family member 3 OS=Homo sapiens GN=CIB3 PE=1 SV=3

MGNKQTVTFHEQLEAYQDCTFFTRKEIMRLFYRYQDLAPQLVPLDYTTCPDVKVPYELIG  
SMPELKDNPFQRRIAQVFSEDGDGHMTLDNFLDMFSVMSEMAPRDLKAYYAFKIYDFNND  
DYICAWDLEQTVTKLTRGGLSAAEVSLVCEKVLDEADGDHGDGRSLSEDFQNMILRAPDFL  
STFHIRI

>sp|Q9BW66|CINP\_HUMAN Cyclin-dependent kinase 2-interacting protein OS=Homo sapiens GN=CINP PE=1 SV=1

MEAKTLGTVTPRPVLSVSARKIKDNAADWHNLILKWETLNDAGFTTANNIANLKISLLN  
KDKIELDSSSPASKENEEKVCLEYNEELEKLCEELQATLDGLTKIQVKMEKLSSTTKGIC  
ELENYHYGEESKRPLFHTWPTTHFYEVSHKLEMYRKELLLKRTVAKELAHTGDPDLTL  
SYLSMWLHQPYVESDSRLHLESMLEETGHRAL

>sp|O75390|CISY\_HUMAN Citrate synthase, mitochondrial OS=Homo sapiens GN=CS PE=1 SV=2

MALLTAAARLLGKNASCLVLAARHASASSTNLKDILADLIPKEQARIKTFRQQHGKTVV  
GQITVDDMMYGGMRGMKGLVYETSVLPDEGIRFRGFSIPECQKLLPKAKGGEEPLPEGLF  
WLLVTGHIPTEEQVSWLSKEWAKRAALPSHVVTMLDNFPTNLHPMSQLSAAVTALNSES  
FARAYAQQISRKYWELIYEDSMDLIAKLPCVAAKIYRNLYREGSGIGAIDSNDWSHNF  
TNMLGYTDHQFTELTRYLTIIHSDHEGGNVSAHTSHLVGSALSDPYLSFAAAMNGLAGPL  
HGLANQEVLVWLTLQLQKEVGKDVSDKLRDYIWNTLNNGRVVPGYGHAVLRKTDPRYTCQ  
REFALKHLPNDPMFKLVAQLYKIVPNVLEQKAKNPWPNVDAHSGVLLQYYGMTEMNYY  
TVLFGVSRALGVLAQLIWSRALGFPLERPMSMSTEGMLKFVDSKSG

>sp|Q8IZS7|CLCL1\_HUMAN C-type lectin-like domain family 1 OS=Homo sapiens GN=CLECL1 PE=2 SV=1

MVSNFFHVIQVFEKSATLISKTEHIGFVIYSWRKSTTHLGSRRKFAISIYLSEVSLQKYD  
CPFSGTSFVVFSLFLICAMAGDVVYADIKTVRTSPELAFPLQRSVSFNFSTVHKSCPAK  
DWKVHKGKCYWIAETKKSWNKSQNDCAINNSYLMVIQDITAMVRFNI

>sp|Q96B33|CLD23\_HUMAN Claudin-23 OS=Homo sapiens GN=CLDN23 PE=2 SV=2

MRTPVVMTLGMVLAPCGLLNLGTLPAGWRLVKGFLNQPDVELYQGLWDMCREQSSRE  
RECGQTDQWGYFEAQPVVARALMVTSLAATVLGLLLASLGVRCWQDEPNFVLAGLSGVV  
LFVAGLLGLIPVSWYNHFLGDRDVLPAASPVTQVSYSLVLGYLGSCLLLLGGFSLALS  
FAPWCDERCRRRRKGPSAGPRRSSVSTIQVEWPEPDLAPAIKYSDGQHRPPPAQHRPKPK  
PKPKVGFPMPRPKAYTNSVDVLDGEGWESQDAPSCSTHPCDSSLPCDSDL

>sp|O95484|CLD9\_HUMAN Claudin-9 OS=Homo sapiens GN=CLDN9 PE=1 SV=1

MASTGLELLGMTLAVLGWLTLSVSCALPLWKVTAFIGNSIVVAQVWEGWMSCVVQSTG  
QMQCKVYDSLLALPQDLQAARALCVIALLLALLGLLVAITGAQCTTCVEDEGAKARIVLT  
AGVILLLAGILVLIPVCWTAHAIIQDFYNPLVAEALKRELASLYLGWAAAAALLMLGGGL  
LCCTCPPPQVERPRGLGYSIPSRSGASGLDKRDYV

>sp|Q8NHS4|CLHC1\_HUMAN Clathrin heavy chain linker domain-containing protein 1 OS=Homo sapiens GN=CLHC1 PE=1 SV=3

MSVHQIRKHAVLPPIICRSDFLESVQRYIITETERLGCSEEGPADEYIIYRNVFDKV  
IEHITAYKSILTSIKKEYDAFIETIKDRRTTFCLHGKLGKLAAEPTALVYYRKRTIQLE  
AKMRIIESNSSKIQSQIDHIKQCRAEYDTKEVKYCTFSKDPSPKPIPGMTLQESMNLDAIT  
KYMKHLEDKYAEIKQAMLIKYPVAQRKADLDEEMIVLLKRRDVAENLNKKLQFCHQRLQI  
ISQALSSWVKSDMSSPFQDFVEQIQKTKYLQGDQGIVEELMEDDPRRAKEAEIMLHYIER

FNELISLGEYEKAACYAANSRRILRNIGTMNTFKAVGKIRGKPLPLLLFFEALFITSHA  
FPCPVDAALTLEGICGLSEKRLDLVTNWVTQERLTFSEEAGDVICDYGEQDTYNKAKCL  
ALAQIVYSEGLHKKAILCLCKQGQTHRVMETIQQLKDFTTDDLQLLMSPQVELIQCL  
TKELNEKQPSLSFGLAILHLFSADMKKVGIKLLQEINKGGIDAVESLMINDSFCSIEKWQ  
EVANICSQNGFDKLSNDITSILRSQAAVTEISEEDAVNLMEHVFW

>sp|Q9NZA1|CLIC5\_HUMAN Chloride intracellular channel protein 5 OS=Homo sapiens GN=CLIC5  
PE=1 SV=3

MNDEDYSTIYDTIQNERTYEPDQPEENESPHYDDVHEYLRPENDLYATQLNTHEYDFVS  
VYTIKGEETSLSVQSEDRGYLLPDEIYSELQEAHPGEPQEDRGISMEGLYSSTQDQQLC  
AAELQENGSMVKEDLPSPSSFTIQHSAFSTTKYSCYSDAEGLEEKEGAHMNPEIYLFVK  
AGIDGESIGNCPFSQRLFMILWLKGVVFNVTVDLKRKPADLHNLAPGTHPPFLTFNGDV  
KTDVNKIEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSKFSAYIKNTKQQNNAALERGL  
TKALKKLDDYLNTPLEEIDANTCGEDKGSRRKFLDGDELTLADCNLLPKLHVVKIVAKK  
YRNYDIPAEMTGLWRYLKNAYARDEFTNTCAADSEIELAYADVAKRLSRS

>sp|Q8N3C7|CLIP4\_HUMAN CAP-Gly domain-containing linker protein 4 OS=Homo sapiens  
GN=CLIP4 PE=1 SV=1

MTIEDLPDFPLEGNPLFGRYPFIFSASDTPVIFSISAAPMPSDCEFSFFDPNDASCQEIL  
FDPKTSVSELFAILRQWVPVQVQNIDIIGNEILKRGCVNDRDGLTDMTLLHYTCKSGAH  
GIGDVETAVKFATQLIDLGADISLRSRWTNMNAHYAAYFDVPELIRVILKTSKPKDVDA  
TCSDFNFGTALHIAAYNLCAGAVKCLLEQGANPAFRNDKGQIPADVVPDPVDMPEMADA  
AATAKEIKQMLLDVPLSCNISKAMLPNYDHTGKAMLTSLGLKLGDVVVAGQKVGTLR  
FCGTTEFASGQWAGIELDEPEGKNGSVGKVQYFKCAPKYGIFAPLSKISKAKGRRKNIT  
HTPSTKAAVPLIRSKQIDVAHVTSKVNTGLMTSKKDSASESTLSLPPGEELKTVTEKDVA  
LLGSVSSCSSTSSLEHRQSYPPKKQNAISSNKKTMKSPSLSSRASAGLNSSATSTANNSR  
CEGELRLGERVLVVGQRLGTIRFFGTTNFAPGYWYGIELEKPHGKNDGSVGGVQYFSCSP  
RYGIFAPPSRVQRVTDSDLTSEISSNQNHSTYPGFRSSFSTTSASSQKEINRRNAFSKS  
KAALRRSWSSTPTAGGIEGSKLHEGSQVLLTSSNEMGTVRYVGPTDFASGIWLGLELRS  
AKGKNDGSVGDKRYFTCKPNHGVLRPSRVTYRGINGSKLVDC

>sp|Q6UXZ3|CLM4\_HUMAN CMRF35-like molecule 4 OS=Homo sapiens GN=CD300LD PE=1 SV=1

MWLSPSLLLLILPGYSIAAKITGPTTVNGSEQGSLTVQCAYGSGWETYLKWRCCGADWNY  
CNILVKTNNGSEQEVKKNRVSIRDNQKNHVFVTMENLKRDDADSYWCGTERPGIDLVKV  
QVTINPGTQTAVSEWTTTTASLAFTAAATQKTSSPLTRSPLKSTHFLFLFLELPLLLSM  
LGTVLWVNRPQRRS

>sp|O76031|CLPX\_HUMAN ATP-dependent Clp protease ATP-binding subunit clpX-like,  
mitochondrial OS=Homo sapiens GN=CLPX PE=1 SV=2

MPSCGACTCGAAVRLITSSLASAQRGISGGRIHMSVLGRLGTFTETQILQRAPLRSFTET  
PAYFASKDGISKDGSGDGNKKSASEGSSKSGSGNSGKGNQLRCPKCGDLCTHVETFVS  
STRFVKCEKCHHFFVVLSEADSKKSIKEPESAAEAVKLAFQKPPPPPKKIYNYLDKYV  
VGQSFVAKKVLVAVYNHYKRIYNNIPANLRQQAEEVEKQTSLTPRELEIRREDEYRFTKL  
LQIAGISPHGNALGASMQQQVNNQIPQEKRGGEVLDSHDDIKLEKSNILLGPTGSGKT  
LLAQTAKCLDVPFAICDCTTLTQAGYVGEDIESVIAKLLQDANYNVEKAQQGIVFLDEV  
DKIGSVPGIHQLRDVGGEGVQGLLKLLEGTIVNVPEKNSRKLGETVQVDTTNILFVAS  
GAFNGLDRIISRRKNEKYLFGFTPSNLGKGRRAAAAADLANRSGESNTHQDIEEKDRLLR  
HVEARDLIEFGMIPEFVGRLPVVVPLHSLDEKTLVQILTEPRNAVIPQYQALFSMDKCEL

NVTEDALKAIARLALERKTGARGLRISIMEKLLLEPMFEVPNSDIVCVEVDKEVVEGKKEP  
GYIRAPTKESSSEEEYDSGVVEEGWPRQADAANS

>sp|P56277|CMC4\_HUMAN Cx9C motif-containing protein 4 OS=Homo sapiens GN=CMC4 PE=1 SV=1  
MPQKDPCCQKQACEIQKCLQANSYMESKCAVIQELRKCCAQYPKGRSVVCSGFEKEEEEN  
LTRKSASK

>sp|Q99788|CML1\_HUMAN Chemokine-like receptor 1 OS=Homo sapiens GN=CMKLR1 PE=1 SV=2  
MRMEDEDYNTSISYGDEYPDYLDSIVVLEDLSPLEARVTRIFLVVVYSIVCFLGILGNGL  
VII IATFKMKKTVMVWFLNLAVADFLFNVFLPIHITYAAMDYHWVFGTAMCKISNFLLI  
HNMFTSVFLLTI ISSDRCISVLLPVWSQNHRSVRLAYMACMVIWVLAFFLSSPSLVFRDT  
ANLHGKISCFNNFSLSTPGSSSWPTHSQMDPVGYSRHVVTVTRFLCGFLVPVLIITACY  
LTIVCKLQRNRLAKTKKPKFIIIVTIIITFFLCWCPYHTLNLELHHTAMPGSVFSLGLPL  
ATALAIANSCMNPILYVFMGQDFKKFKVALFSRLVNALSEDTHGSSYPSHRSFTKMSSMN  
ERTSMNERETGML

>sp|Q5EBM0|CMPK2\_HUMAN UMP-CMP kinase 2, mitochondrial OS=Homo sapiens GN=CMPK2 PE=1 SV=3  
MAFARRLLRGPLSGPLLGRGVCAGAMAPRRFVLELPDCTLAHFALGADAPGDADAPDP  
RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLRLCYCP  
GGQAGGAQQGFLRLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ  
DGRRLQVGCAQVVPVPEPLHPVVDLPSSVVPDREAARAVLEECTSFIPPEARAVLDLV  
DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSPSCIGQWRKIFDDEPT  
IIRRAFYSLGNIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY  
QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP  
GCHVVDASPSREKVLQTVLSLIQNSFSEP

>sp|Q9Y6Y1|CMTA1\_HUMAN Calmodulin-binding transcription activator 1 OS=Homo sapiens  
GN=CAMTA1 PE=1 SV=4

MWRAEGKWLPKTSRKSVSQSVFCGTSTYCVLNTVPPIEDDHGNSNSSHVKIFLPKKLLEC  
LPKCSSLPKERHRWNTNEEIAAYLITFEKHHEELTTPKTRPQNGSMILYNRKVKYRKD  
GYCWWKKRKDGKTTREDHMKLVQGVCELYGCYVHSSIPTFHRRCYWLLQNPDIVLVHYL  
NVPAIEDCGKPCGPILCSINTDKKEWAKWTKHEELIGQLKPMFHGIKWTCNNGNSSSGFSV  
EQLVQQILD SHQTKPQPRTHNCLCTGSLGAGGSVHHKCNSAKHRIISPKEVPTGGYGSH  
SEVQHNDVSEGKHEHSHSKGSSREKRNGKVAKPVLLHQSSTEVSSTNQVEVPDTTQSSPV  
SISSGLNSDPDMVDSPPVTVGSGMAVASVMGSLSQSATVMSEVTNEAVYTMSPTAGPNH  
HLLSPDASQGLVLAVSSDGHKFAFPTTGSSSELSMLPTNVSEELVLSTLDGGRKIPETT  
MNFDPDCFLNNPKQGQTYGGGGLKAEMVSSNIRHSPPGERSFSFTTVLTKEIKTEDTSFE  
QQMAKEAYSSSAAVAASSLTLAGSSLLPSGGGLSPSTTLEQMDFSAIDSNKDYTSFS  
QTGHSPHIHQTPSPSFLLQDASKPLPVEQNTHSSLSDSGGTFVMPTVKTEASSQTSSCSG  
HVETRIESTSSLHLMQFQANFQAMTAEGEVTMETSQAAEGSEVLLKSGELQACSSEHYLQ  
PETNGVIRSAGGVPILPGNVVQGLYPVAQPSLGNASNMELSLDHFDISFSNQFSDLINDF  
ISVEGGSSTIYGHQLVSGDSTALSQSEDGARAPFTQAEMCLPCCSPQQGSLQLSSSEGA  
STMAYMHVAEVVSAASAQGTLMQLQSGRVFMVTDYSPEWSYPEGGVKVLITGPWQEASN  
NYSCLFDQISVPASLIQPGVLRICYPAHDTGLVTLQVAFNNQIIISNSVVFYKARALPTL  
PSSQHDWLSLDDNQFRMSILERLEQMERRMAEMTGSQQHKQASGGGSSGGSGSGNGGSQ  
AQCASGTGALGSCFESRVVVVCEKMSRACWAKSKHLIHSKTFRGM TLLHLAAQGYATL  
IQTLIKWRTKHADSIDLELVDPLNVDHFSCTPLMWACALGHLEAAVLYKWDRRAISIP  
DSLGRPLPLGIARSRGHVKLAECLEHLQRDEQAQLGQNPRIHCPASEEPSTESWMAQWHSE

AISSPEIPKGVTVIASTNPELRRRPRSEPSNYYSSESHKDYPAPKKHKLNPYFQTRQEKL  
LPTALSLEEPNIRKQSPSSKQSVPETLSPSEGVDRDFSRELSPTTPETAAFQASGSQPVGK  
WNSKDLIYIGVSTVQVTGNPKGTSVGKEAAPSQVRPREPMSVLMANREVVNTELGSYRDS  
AENEECGQPMDDIQVNMMLAEHI IEATPDRIKQENFVPMESSGLERTDPATISSTMSWL  
ASYLADADCLPSAAQIRSAINEPLTPSSNTSLSPVGSVPSEIAFEKPNLPSAADWSEFLS  
ASTSEKVENEFAQLTSLDHEQRELYEAARLVQTAFRKYKGRPLREQQEVAAAVIQRCYRK  
YKQYALYKKMTQAAILIQSKFRSYEQQKFQQSRAAVLIQKYRSYKKCGKRRQARRTA  
VIVQQKLRSLLTKKQDQAARKIMRFLRRCRHSPLVDHRLYKRSERIEKGQGT

>sp|Q86VU5|CMTD1\_HUMAN Catechol O-methyltransferase domain-containing protein 1 OS=Homo sapiens GN=COMTD1 PE=1 SV=1

MTQVPVRLSVPAALALGSAALGAATGLFLGRRCPPWRGRREQCLLPEDSRLWQYLLS  
RSMREHPALRSLRLTLEQPQGDSMMTCEQAQLLANLARLIQAKKALDLGTFTGYSALAL  
ALALPADGRVVTCEVDAQPPPELGRPLWRQAEAEHKIDRLKPALETLDELLAAGEAGTFD  
VAVVDADKENC SAYYERCLQLLRPGGILAVLRVLWRGKVLQPPKGDVAAECVRNLNERIR  
RDVRVYISLLPLGDGLTLAFKI

>sp|Q8N3K9|CMYA5\_HUMAN Cardiomyopathy-associated protein 5 OS=Homo sapiens GN=CMYA5 PE=1 SV=3

MASRDSNHAGESFLGSDGDEEATRELETEEESEGEEDETAEESEEEPD SRLSDQDEEGKI  
KQEYIISDPSFSMVTVQREDSGITWETNSSRSSTPWASEESQTSQVCSREGSTVNSPPGN  
VSFIVDEVKKVRKRTHKSKHGSPSLRRKGNRKRNSFESQDVPTNKKGSPLTSASQVLTTE  
KEKSYTGIYDKARKKKTSTNTPTITGAIYKEHKPLVLRPVYIGTVQYIKMFNSVKEELI  
PLQFYGTLPKGYVIKEIHYRKGDASISLEPDLNDSGNTVSKTRKLVAQSIEDKVKEVF  
PPWRGALSKGSESLTLMFSHEDQKKIYADSPLNATSALEHTVPSYSSSGRAEQGIQLRHS  
QSVPPQPEDEAKPHEVEPPSVTPDTPATMFLRTTKEECELASPGTAASENDSSVSPSFAN  
EVKKEDVYSAHHSISLEAASPLAASTQDGLDPDQEQPDLSIERAEPVSAKLTPHTPSV  
KGEKEENMLEPSISLSEPLMLEEPEKEEIEISLPIAITPEPEDSNLVEEEIVELDYPESP  
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SGVEKQVEHGPPALAFSALSEEIKKEIEPSSSTTTASVTKLDSNLTRAVKEEIPDSSLI  
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TVCD SERLVSSQKKSMLSTSEVLEPEHELPLSLWGEIKKETELPSSQNVSPASKHIIPK  
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EPEKKDKPHQPLELPNAGSEFSSDLGRQSGSIGTKQAKSPITETEDSVLEKGPAELRSRE  
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HKTLSRLEDEKVTPLKENKQKETHKTKEEISTDSETDLSFIQPTIPSEEDYFEKYTLID  
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VWMAVNFTGCSLPSERAIFRTAPSTPVIRAEDCTVCWNTATIRWRPTPEATETYTLEY  
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ICSSSAVQAGALGQGETSWYMHCEPQRYTFFYSGIVSDVHVTERPARVGILLDYNQRL  
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>sp|Q8WXQ3|CN183\_HUMAN Putative uncharacterized protein encoded by LINC01599 OS=Homo  
sapiens GN=LINC01599 PE=2 SV=1

MEVLGFSNSKMDVRAKRQLEIWMEMAPSKPEPQGKAQQSQPTSVLSAANAAQRGKCCCCR

EGHSPEDYGRQWAENVENHPEVAAHTSCLQSITPHFIAGEMGCTAKESQEQVPASITQIL  
RNPWFSRLDSPRSRCLHLASSVDPIPLGLQFFIVIVSDHQKVDREEEWKQGKIRKEIHWIP  
LFTMWSWLQCVEDRSIAGIPKLEHGDHSHQTESLLDVLVGGFWGVPHTAPPRLQEAGGPTG  
GCGVGGQPLGGRGQVWGEETGPVGGPHAWVWPPTAPGTSLVLLVLLAQPFQSSSEWMPVSS  
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>sp|Q8NCQ2|CNAS1\_HUMAN Uncharacterized protein CSNK1G2-AS1 OS=Homo sapiens GN=CSNK1G2-  
AS1 PE=2 SV=2

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SCGSRRATSRPGFPFPLEGSHLGCQLLPL

>sp|Q13956|CNGC\_HUMAN Retinal cone rhodopsin-sensitive cGMP 3',5'-cyclic  
phosphodiesterase subunit gamma OS=Homo sapiens GN=PDE6H PE=1 SV=1  
MSDNTTLPAPASNQGPTTPRKGPFPKFKRQTRQFKSKPPKKGVKGFDDIPGMEGLGTDI  
TVICPWEAFSHLELHELAQFGII

>sp|Q9BPX3|CND3\_HUMAN Condensin complex subunit 3 OS=Homo sapiens GN=NCAPG PE=1 SV=1

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LINKLLGSMPENAQIDDDVFDKINKAMLIKDKIPNVRIQAVLALSRLQDPKDDECPVV  
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MSIAQVRVLLQQLNDRSDAVKQAMQKHLQGWLRFSEGNILELLHRLDVENSSEVAVSV  
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LPEPVVYADYLLSYIQSIPVVNEEHRGDFSIGNLMTKEFIGQQLILIKSLDTSEEGGR  
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DPADVRKKELKMAEIKVKLIEAKEALENCITLQDFNRASELKEEIKALEDARINLLKETE  
QLEIKEVHIEKNDATLQKCLILCYELLKQMSISTGLSATMNGIIESLILPGIISHPVV  
RNLAVLCLGCCGLQNQDFARKHFVLLQVLQIDDVTIKISALKAIFDQLMTFGIEPFKTK  
KIKTLHCEGTEINSDDQESKEVEETATAKNVLKLLSDFLDSEVSELRTGAAEGLAKLMF  
SGLLVSSRILSRLILLWYNPVTEEDVQLRHCLGVFFPVFAYASRTNQCFFEEAFLPTLQT  
LANAPASSPLAEIDITNVAELLVDLTRPSGLNPQAKTSQDYQALTVHDNLAMKICNEILT  
SPCSPEIRVYTKALSSLELSSHAKDLLVLLNEILEQVKDRTCLRALEKIKIQLEKGNKE  
FGDQAEAAQDATLTTTTFQNEDEKNKEVYMTPLRGVKATQASKSTQLKTNRGQRKVTVSA  
RTNRRCQTAEADSESDHEVPEPESEMKMRLPRRAKTAALEKSKLNLAQFLNEDLS

>sp|Q9BXW7|CECR5\_HUMAN Cat eye syndrome critical region protein 5 OS=Homo sapiens GN=CECR5  
PE=1 SV=1

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SPMKLFSEYHEKRMVLVSGQGPVMENAQGLGFRNVVTVDELMAFPLDMVDLERRLKTP  
LPRNDFPRIEGVLLGEPVRWETSLQLIMDVLLSNGSPGAGLATPPYPLPVLASNMDLL  
WMAEAKMPRFGHGTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEGLIRRQAERRG  
WAAPIRKLYAVGDNPMMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISIL  
VCTGVYNPRNPQSTEPVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNEAVQLVFRKEGW  
ALE

>sp|Q16739|CEGT\_HUMAN Ceramide glucosyltransferase OS=Homo sapiens GN=UGCG PE=1 SV=1  
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GVDPNLINNLETFEFDYPKYEVLLCVQDHDDPAIDVCKKLLGKYPNVDARLFIGGKKVG  
INPKINNLMPGYEVAKYDLIWICDSGIRVIPDTLTDMVNQMTEKVGLVHGLPYVADRQGF  
AATLEQVYFGTSHPRYYISANVTGFKCVTGMSCLMRKDVLDQAGGLIAFAQYIAEDYFMA  
KAIA DRGWR FAMSTQVAMQNSGYSISQFQSRMIRWTKLRINMLPATIICEPISECFVAS  
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IYIFLSALWDPTISWRTGRYRLRCGGTAEEILDV

>sp|P08217|CEL2A\_HUMAN Chymotrypsin-like elastase family member 2A OS=Homo sapiens  
GN=CELA2A PE=1 SV=1

MIRTLTLLSTLVAGALSCGDPYTPPYVTRVVGGEARPNSWPWQVSLQYSSNGKWYHTCGG  
SLIANSWVLTAAHCISSRTYRVLGRHNLYVAESGLAVSVSKIIVHKDWNSNQISKGN  
DIALKLANPVSLTDKIQLACLPAGTILPNNYPCYVTGWRLQTNGAVPDVLQQGRLLV  
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LGCNYYHKPSVFTRVSNYIDWINSVIANN

>sp|Q9HCU4|CEL2R\_HUMAN Cadherin EGF LAG seven-pass G-type receptor 2 OS=Homo sapiens  
GN=CELSR2 PE=1 SV=1

MRS PATGVPLPTPPPPLLLLLLLLLPPPLLDGQVGPCRSLGSRGRGSSGACAPMGWLCPS  
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GHLSPQGKLTLP EHPCLKAPRLRCQSCKLAQAPGLRAGERSPEESLGRRKRNVNTAPQ  
FQPPSYQATVPENQAGTPVASLRAIDPDEGEAGRLEYTMDALFDSRSNQFFSLDPVTGA  
VTAEELDRETKSTHVRVTAQDHGMPRRSALATLTILVTDNDHDPVFEQQEYKESLRE  
NLEVG YEVLTVRATDGDAPPNANILYRLLEGSGGSPSEVFEIDPRSGVIRTRGPVDREEV  
ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVVQVREDVTPGAPVLR  
VTASDRDKGSNAVHYHSIMSGNARGQFYLDAQTGALDVVSPLDYETTK EYTLRVRAQDGG  
RPPLSNVSGLVTVQVLDINDNAPIFVSTPFQATVLESVPLGYLVLVHQAIDADAGDNARL  
EYRLAGVGHDFPFTINNGTGWISVAAELDREEVDYFYSFGVEARDHGTAL TASASVSVTV  
LDVNDNNTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTRNRFSITS  
QSGGGLVSLALPLDYKLERQYVLAVTASDGTRQDTAQIVNVNTDANTHRPVFQSSHYTVN  
VNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTGAVTTQAELDYEDQVS  
YTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSYQGSVYEDVPFPTSVLQISAT  
DRDSGLNGRVFYTFQGGDDGDGDFIVESTSGIVRTLRLRDRENV AQYVLRAYAVDKGMPP  
ARTPMEVTVTVLDVNDNPPVFEQDEFDVFEENSPIGLAVARVTATDPDEGTNAQIMYQI  
VEGNIPEVFQLDIFSGELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLDRNDNP  
PVLGNFEILFN NYVTNRSSSFPGAIGRVP AHD PDISDSL TYSFERGNELSLVLLNASTG  
ELKLSRALDNNRPLEAIMSVLSDGVHSVTAQCALRVTIITDEMLTHSITLRLEDMSPER  
FLSPLLGLFIQAVAA TLATPPDHVVFNVRD TDAPGGHILNVSLSVGQPPGPGGGPPFL  
PSEDLQERLYLNRSLLTAISAQRVLPFDDNICLREPCENYMRCVSVLRFDSSAPFIASSS  
VLF RPIHPVGGRLRCRPPGFTGDYCE TEVDLCYSRCPGPHGRCSREGGYTCLCRDGYTG  
EHCEVSARSGRCTPGVCKNGGTCVNLLVGGFKDCPSGDFEKP YCQVTRSFPAHSFITF  
RGLRQRFHFTLALSFATKERDGLLLYNGRFNEKHDFVALEVIQE VQLTFSAGESTTVS  
PFVPGGVSDGQWHTVQLKYYNKPLL GQTGLPQGPSEQKVA VVTVDGCDTGVALRFGSVLG  
NYSCAAQGTQGGSKSLDLTGPLLLGGVPDLPE SFPVRMRQFVGCMRNLQVDSRHIDMAD  
FIANN GTVPGCAKKNVCDSENTCHNGGTCVNQWDAFSCECPLGFGGKSCAQEMANPQHFL  
GSSLV AWHGLSLPISQPWYLSLMFRTRQADGVLLQAITRGRSTITLQLREGHVMLSVEGT  
GLQASSLRLEPGRANDGDWHHAQLALGASGGPGHAILSFDY GQQR AEGNLGPR LHGLHLS

NITVGGIPGPAGGVARGFRGCLQGVRVSDTPEGVNSLDPSHGESINVEQGCSLPDPCDN  
PCPANSYCSNDWDSYSCSDPGYYGDNCTNVCDLNPCEHQSVCTRKPSAPHGYTCECPPN  
YLGPYCETRIDQPCPRGWWGHPTCGPCNCDDVSKGFDPCNKTSGECHCKENHYRPPGSPT  
CLLCDCYPTGSLSRVCDPEDGQCPCKPGVIGRQCDRCNPF AEVTTNGCEVNYDSCPRAI  
EAGIWWPRTFRGLPAAAPCPKGSFGTAVRHCDHRGWLPPNLFNCTSI TFSELKGFAERL  
QRNESGLDSGRSQQLALLLRNATQHTAGYFGSDVKVAYQLATRLLAHESTQRGFGLSATQ  
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TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGEQPPDLETTVILPESVFRET PPVVRPAG  
PGEAQEPEELARRQRRHPELSQGEAVASV IYRTLAGLLPHNYDPDKRSLRVPKRPI INT  
PVVISVHDDEELLPRALDKPVTVQFRLL ETEERTKPICVFNHSILVSGTGGWSARGCE  
VVFRNESHVSCQCNHMTSFAVLM DVSRRENGEILPLKTLTYVALGVTLAALLLTFFFLTL  
LRILRSNQHGIRRNLTAA GLAQLVFL LGINQADLPACTVIAILLHFLYLCTFSWALLE  
ALHLYRALTEVRDVNTGPMRFYYMLGWGVPAFITGLAVGLDPEGYGNP DFCWLSIYDTLI  
WSFAGPVAFVMSVFLYILAARASCAAQRQGFEKGPVSGLQPSFAVLLLLSATWLLAL  
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TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSQKSQPSYIPFLLREESALNPGQPPGLG  
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WDSLLGPGAERLPLHSTPKDGGPGPGKAPWPGDFGTTAKESSNGAPEERLRENGDALSR  
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>sp|Q8WUJ3|CEMIP\_HUMAN Cell migration-inducing and hyaluronan-binding protein OS=Homo  
sapiens GN=CEMIP PE=1 SV=2

MGAAGRQDFLFKAMLTISWLT LTCFPGATSTVAAGCPDQSP ELQPWNPGHDQDHHVHIGQ  
GKTLTLLTSSATVYSIHI SEGGKLVIKDHDEPIVLRTRHILIDNGGELHAGSALCPFQGNF  
TIILYGRADEGIQDPY YGLKYIGVGKGALELHGQKKLSWTF LNKTLHPGMAEGGYFF  
ERSWGHRGVIVHVIDPKSGTVIHSDFDTYRSKKESERLVQYLN AVPDGRILSVAVNDEG  
SRNLDDMARKAMTKLGSKHFLH LGFRHPWSFLTVKGNPSSSVEDHIEYHGHRGSAAARVF  
KLFQTEHGEYFNVSLSSEWVQDVEWTEWFDHDKVSQTKGGEKISDLWKAHPGKICNRPID  
IQATTMDGVNLSTEVVYKKQDYRFACYDRGRACRSYRVRF LCGKPV RPKLTVTIDTNVN  
STILNLEDNVQSWKPGDTLVIAS TDYSMYQAE EFQVLP CRSCAPNQKVAGKPMYLHIGE  
EIDGVDMAEVLG LLSRNII VMGEMEDKCYPYRNHICNFFDFDFTGGHIKFALGFKAAHLE  
GTCLKHMGQQLVGQYPIHFHLAGDVDERGGYDPPTYIRDL SIHHTFSRCVTVHGSNGLLI  
KDVVGYNLSLGHCFFTEDGPEERNTFDHCLGLLVKSGTLLPSDRDSKMCKMITEDSYPGYI  
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LGKFYNNRAHSNYRAGMIIDNGVKTTEASAKDKRPFLSIISARYSPHQDADPLKPREPAI  
IRHFIAYKNQDHGAWLRGGDVWLDSCRFADNGIGLTLASGGTFPYDDGSKQEIKNSLFVG  
ESGNGVTEMMDNRIWGPGLDHSGR TLPIGQNFPIRGIQLYDGPINIQNCTFRKFVALEG  
RHTSALAFRLNNAWQSCPHNNVTGIAFEDVPITSRVFFGEPGPWFNQLDMDGDKTSVFHD  
VDGSVSEYPGSYLTKNDNWLVRHPDCINVPDWRGAICSGCYAQMYIQAYKTSNLRMKIIK  
NDFPSHPLYLEGALTRSTHYQQYQPVVTLQKGYTIHWDQTAPAELAIWLINFNKGDWIRV  
GLCYPRGTTFSILSDVHNRLKQTSKTGVFVRTLQMDKVEQSYPGRSHYYWDEDSGLLFL  
KLKAQNEREKFAFCSMKG CERIKIKALIPKNAGVSDCTATAYPKFTERAVVDVMPKKLF  
GSQKTKDHFLEV KMESSKQHFFHLWNDFAYIEVDGKKYPSEDGIQVVVIDGNQGRVVS  
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QMAFVGFKGSFRPIWVTLDTEDHKAKIFQVPIPVVKKKKL

>sp|P49450|CENPA\_HUMAN Histone H3-like centromeric protein A OS=Homo sapiens GN=CENPA  
PE=1 SV=1

MGPRRRSRKPEAPRRRSPSPTPTPGPSRRGPSLGASSHQHSRRRQGWLKEIRKLQKSTHL  
LIRKLPFSLAREICVKFTRGVDFNWQAQALLALQEAAEFLVHLFEDAYLLTLHAGRVT  
LFPKDVQLARRIRGLEEGLG

>sp|Q9H3R5|CENPH\_HUMAN Centromere protein H OS=Homo sapiens GN=CENPH PE=1 SV=1

MEEQPQMADAEPADSGGEGRAGGPPQVAGAQAACSEDRMTLLRLRAQTKQQLLEYKSM  
VDASEEKTPEQIMQEKEIEAKIEDLENEIEEVKVAFEIKKLALDRMRLSTALKKNLEKIS  
RQSSVLMNMMHLLLELNKLIMKSQQESWDLEEKLLDIRKKRLQLKQASESKLLEIQTEKN  
KQKIDLDSMENSERIKIIRQNLQMEIKITTVIQHVFNLIILGSKVNWAEDPALKEIVLQL  
EKNVDM

>sp|Q96LK0|CEP19\_HUMAN Centrosomal protein of 19 kDa OS=Homo sapiens GN=CEP19 PE=1 SV=2

MMCTAKKCGIRFPAPAILIYESEIKGKIRQIMPVRNFSKFSDCTRAAEQLKNNPRHKS  
YLEQVSLRQLEKLFSLRGYLSGQSLAETMEIQRETTIDPEEDLNKLDDKELAKRKSIM  
DELFEKNQKKKDDPNFVYDIEVEFPQDDQLQSCGWDTESADEF

>sp|Q9C0F1|CEP44\_HUMAN Centrosomal protein of 44 kDa OS=Homo sapiens GN=CEP44 PE=1 SV=2

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SNVELIAKNLRFIDAVYKLLRDQFNYPILTKKQFIQCGFAEWKIQIVCDILNCVMKKH  
KELSSLQKIPSQQRKKISSGKSEPPLGNEKISAEAVGVDISGRFMTSGKKKAVVIRHLYN  
EDNVDISEDTLSPITDVNEAVDVSNDLATEIKMPEVKVPEIKAEQQDVNVNPEITALQTM  
LAECQENLKKLTSIEKRLDCLEQKMGKVMVDENTWTNLLSRVTLLTEMLLSKKNDEFI  
EFNEVEDYASCSMDLLNPHRKSEVERPASIPSSGYSTASSDSTPRASTVNYCGLNEI  
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>sp|Q8NHQ1|CEP70\_HUMAN Centrosomal protein of 70 kDa OS=Homo sapiens GN=CEP70 PE=1 SV=2

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SVKSKI GELEDESLSRACHQQNKIKDLQKEQKTLQVKCQHYKKRTEQEETIASLQMEVC  
RLKKEEDRIVTQNRVFAYLCKRVPHTVLDRLCLIDYYESKIRKIHTQRQYKEDESQS  
EEENDYRNLDASPTYKGLMSLQNLKESKSKIDALSSEKLNQKDLERPTQHELRLYK  
QQVKKLEKALKKNVKLQELINHKAEDTEKKDEPSKYNQQALIDQRYFQVLCINSIIH  
NPRAPV I IYKQTKGGVQNFNKLVDQCGFEHLVPVIEMWADQLTSLKDLYKSLKTLSAEL  
VPWNLKKQDENEGIKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAIVSHFQKLFDPV  
SLNGVYPRMNEVYTRLGEMNNAVRNLQELLEDDSSSLCVLVSTVGKLCRLINEDVNEQV  
MQVLGPEDLQSI IYKLEEHEEFFPAFQAFTNDLLEILEIDDLDAIVPAVKKLKVLVS

>sp|Q96GE4|CEP95\_HUMAN Centrosomal protein of 95 kDa OS=Homo sapiens GN=CEP95 PE=1 SV=1

MAGSDAEWVTIANNNLFKCHIHRLIHELQDCDANVFIALYQSILGEKVPDLIVIPRSQED  
DAHNVQAVIDSLALDYLQVSLSHITGENIVKGDKESIKNNLEIFDGLLEYLTERISETSH  
EKSETEQYFKESDRGERLEEPESTKESKSSWKRVSFGRCSLSSEMLGPSWDGEAESTGE  
IIRLGDTAHTFSLRNGAQCPNEMLSKKALASPSSKSHEDMLYPPSVLSKSRTSFVEDTE  
TLVSGIPNARKLGEP IRAAIPLHPYPHPSEPRAPCPIGKEYLHSSHCSPAVNSTGEHTE  
FSGDLDDGLFLISKLPKGSKEVYPAQVQGPRTKPPKGRNENRATASSCNSPFPQRPR  
KRLTEQELHDVSEKLSQRLSELDWMLKSALGDRIKEKTDHKEENTGNEEVEDGTEETLSQ  
HSDGIVEYGPKSRPGLSMRRKPPYRSHSLSPSPVNKHKQFHLERKRQRKPRETDVRQFQ

AQAFTEAFERELRRHKVQENIGPLRIHEKEEETEKIYRGEAVRKGTPESQPWKIYSRKT  
TTQSLRGGLPKPNKAVPMKVSEHSLPLMLEQFPFLYVSGPTLSKMWKQQAQVEQLKKE  
ACRENRSKKKLQDEIEEALRRHDLTTLVKKEYEHNKRLQDFKDCIRRQRLTQSKIKENR  
QQIVRARKYYDDYRVLCAKMMRMRTREEMIFKKLFEEGLNIQKQRLDLRNYAKEKRDE  
QRRRHQDELDSMENYYKDQFSLAEAISQEHQELKAREKSQAQTLHKVKRELRSKMEKEI  
QQLDQMITQNDDVFFRELEAERFRSRLQLASFQYSKSPSL

>sp|P27544|CERS1\_HUMAN Ceramide synthase 1 OS=Homo sapiens GN=CERS1 PE=1 SV=1

MAAAGPAAGPTGPEPMPSYAQLVQRGWGSALAAARGCTDCWGLARRGLAEHAHLAPPEL  
LLLALGALGWTALRSAATARLFRPLAKRCCLQPRDAAKMPESAWKFLFYLGWSYSAYLL  
FGTDYPFFHDPSPVFYDWTGMAVPRDIAAAYLLQGSFYGHSIYATLYMDTWRKDSVVML  
LHHVVTLLILIVSSYAFRYHNVGILVFLHDISDVQLEFTKLNIYFKSRGGSYHRLHALAA  
DLGCLSFGFSWFWRLYWFLKVLVYATSHCSLRTVPDIPFYFFFNALLLLTLMNLYWFL  
YIVAFAAKVLTGQVHELKDLREYDTAEAQSLKPSKA EKPLRNGLVKDKRF

>sp|Q8IU89|CERS3\_HUMAN Ceramide synthase 3 OS=Homo sapiens GN=CERS3 PE=1 SV=2

MFWTFKEFWFLERFWLPPTIKWSDLEDHDGLVFVKPSHLVYTIPIYAFLLLIIRRVFEKRV  
ASPLAKSFGIKETVRKVTPNTVLENFFKHSTRQPLQTDIYGLAKKCNLTERQVERWFRSR  
RNQERPSRLKKFQEACWRFAFYLMITVAGIAFLYDKPWLYDLWEVWNGYPKQPLLPSQYW  
YYILEMSFYWSLLFRLGFDVKKDFLAHIIHHLAAISLMSFSWCANYIRSGTLVMIVHDV  
ADIWLESAKMFSYAGWTQTCNTLFFIFSTIFFISRLIVFPFWILYCTLILPMYHLEPFFS  
YIFLNLQLMILQVLHLYWGYIILKMLNRCIFMKSIQDVRSDDEDYEEEEEEEEEEATKKG  
EMDCLKNGLRAERHLIPNGQHGH

>sp|P11597|CETP\_HUMAN Cholesteryl ester transfer protein OS=Homo sapiens GN=CETP PE=1 SV=2

MLAATVLTALLGNAHACSKGTSHEAGIVCRITKPALLVLNHETAKVIQTAFQRASYPDI  
TGEKAMMLLGQVKYGLHNIQISHLSIASSQVELVEAKSIDVSIQNVSVVFKGTLKYGYTT  
AWWLGIDQSIDFEIDSAIDLQINTQLTCDSGRVRTDAPDCYLSFHKLLLHLQGEREPGWI  
KQLFTNFISFTLKLVLKGQICKEINVISNIMADFVQTRAASILSDGDIGVDISLTGDPVI  
TASYLESHHKGHFIYKNVSEDLPLPTFSPTLLGDSRMLYFWFSERVFHSLAKVAFQDGR  
MLSLMGDEFKAVLETWGFNTNQEIFQEVVGGFPSQAQVTVHCLKMPKISCQNKGVVNSS  
VMVKFLFPRPDQQHSVAYTFEEDIVTTVQASYSKKKLFLSLLDFQITPKTVSNLTESSE  
SVQSFLQSMITAVGIPEVMSRLEVFTALMNSKGVSLFDIINPEIITRDGFLLLQMDFGF  
PEHLLVDFLQSL

>sp|Q5SRN2|CF010\_HUMAN Uncharacterized protein C6orf10 OS=Homo sapiens GN=C6orf10 PE=2 SV=3

MTVLEITLAVILTLLGLAILLAILLTRWARCKQSEMYISRYSEQSARLLDYEDGRGSRHA  
YSTQSDTSYDNRERSKRDYTPSTNSLVSMASKFSLGQTELILLMCFILALSRSSIGSIK  
CLQTTEPPSRTAGAMMQFTAPIPGATGPIKLSQKTIVQTPGPIVQYPGSNAGPPSAPRG  
PPMAPIIISQRTARIPQVHTMDSSGKITLTPVVILTGYMDEELAKKSCSKIQLKCGGTA  
RSQNSREENKEALKNDIIFTNSVESLKSAHIKEPEREGKTDLEKDKIGMEVKVDSAGI  
PKRQETQLKISEMSIPQGGQAQIKKSVSDVPRGQESQVKKSESGVPKGQEAQVTKSGLVV  
LKGQEAQVEKSEMGPVRRQESQVKKSQSGVSKGQEAQVKKRESVVLKGQEAQVEKSELKV  
PKGQEGQVEKTEADVPEKEQVEKKSEAGVLKGPEQVKNTEVSVPETLESQVKKSESGV  
LKGQEAQEKESFEDKGNNDKEKERDAEKDPNKKEKGDKNTKGDKGDKVKGKRESEING  
EKSKGSKRAKANTGRKYNKKVEE

>sp|Q9GZU0|CF062\_HUMAN Uncharacterized protein C6orf62 OS=Homo sapiens GN=C6orf62 PE=2 SV=1

MGDPNSRKKQALNRLRAQLRKKKESLADQDFKMYIAFVFKEKKKSALFEVSEVIPVMT  
NNYEENILKGVRDSSYSLESSLELLQKDVVQLHAPRYQSMRRDVIGCTQEMDFILWPRND  
IEKIVCLLFSRWKESDEPFRPVQAKFEFHGDYEKQFLHVL SRDKDTGIVVNNPNQSVFL  
FIDRQHLQTPKNKATIFKLCSICLYLPQEQLTHWAVGTIEDHLRPYMPE

>sp|Q4VX62|CF099\_HUMAN Putative uncharacterized protein C6orf99 OS=Homo sapiens GN=C6orf99 PE=4 SV=1

MNAAVPPEQAHS CGWGTEGCPCLRSTAIRQTFFPGGDQFQRDGG LAMPLILVSKFLASSD  
PPVSVPEMLGLQNRWRGMKNEEHCPGSFFLCKIRECVLN YRFQLQHPGFQHYLQSSGRRD  
RGRSEDKKPLEAGVWCWDRGGWDGSSRAVHLLFRGVAHPSLYLFPREDPPRLLPRLSLL  
VCEQFWCYSATLLLLAPLPASTC

>sp|Q5T5N4|CF118\_HUMAN Uncharacterized protein C6orf118 OS=Homo sapiens GN=C6orf118 PE=2 SV=1

MAEEREPELYLKWKHCETPGVKTLCNLKHCETPGVKTLCNLKLLNRLQKDHREDVYLYI  
SGHLNPKNLYQPPETILQHWPNAHRPKGERASEVGEPPAGKVARMKEALAHFTIHTALVP  
SEAQDTPLFRYLN PQASLSHTSEEDFLPVEAVREGKEEKKGGPPGRGPPGWRRREELRLP  
DLKVL CYQEAGSRGTRDRHHYVSSYLAGATSADRYRMFLRFQKEVLAKQDLLKNDFTGSK  
AAAGHERKLQQELQKICTCSPQQFNRLHVF GKVFEDICNSSLIFGDLLKKVKDEYELYMA  
TLLESQPAAQYEALLAQLKALGQRPVKTADMDLAREELRMLVTATKAAL EQNDRLRSELE  
MEVALLQSAKERSESSEKHI IDENRLTLTEKVEKKRCEILSKWDEIQALEKEIKTTLVHT  
GISDITENRIKSIEHEATQLETENMILKKKIKGPLEIYQGICKIRGNRR

>sp|Q6UWU4|CF089\_HUMAN Bombesin receptor-activated protein C6orf89 OS=Homo sapiens GN=C6orf89 PE=1 SV=1

MDLAANEIS IYDKLSETVDLVRQTGHQCGMSEKAIEKFIRQLLEKNPQRPPPQYPLLIV  
VYKVLATLGLILLTAYFVIQPFSPLAPEPVLSGAHTWRS LIHHIRLSLPIAKKYSENK  
GVPLHGGDEDRPFPDFDPWWTNDCEQNESEPI PANCTGCAQKHLKVMLEDAPRKFERLH  
PLVIKTGKPLLEEEIQHFLCQYPEATEGFSEGFFAKWWRCFPERWFPFPYPWRPLNRSQ  
MLRELFPVFTHLPFKDASLNKCSFLHPEPVVSGSMHKMPDLFIIGSGEAMLQLIPPFQC  
RRHCQSVAMPIEPGDIGYVDTHWKVYVIARGVQPLVICDGTAFSEL

>sp|Q5SZD1|CF141\_HUMAN Uncharacterized protein C6orf141 OS=Homo sapiens GN=C6orf141 PE=2 SV=3

MNDPFARMETRGPQAANPMDSSRSLGDLGPPFPREVGRGAPLAPGARNPATAGASRSQGG  
GHEDRTADRALGP RAGEELDRESWVREKVLFLHPERWLGTRGDPAREEVAGAEDLPHAG  
GEDHGEEP NYPSVFQRQKRISGRRVAPPRDAADPPKYVLVRVEDYQVTQEVLQTSWAKGR  
MTTRTEEHFVTAL TFRSSREGQPGERWGP AESRALQARTGASRVHAAGRRVSPSPGTWLE  
EIKL

>sp|Q5T699|CF183\_HUMAN Putative uncharacterized protein C6orf183 OS=Homo sapiens GN=C6orf183 PE=5 SV=3

MDEIYKITSTERVQLLEKKLAVQLTELKSEIEEQALQGTANRVYSSI QMPKDIYYFRRE  
RELALKKTLQVAESKPLVVQADAVQRELESCLRREYTPENLP LLLLQYYTERIAQLAQSK  
YLHMLRWKRFCQHSKIMEQLYPLYKKQVGYIMQEYNDTLQRAERLSVARENFLMGKNNPP  
NLVTQEDLTIYTKWL VCHLHSLGTVHQYLQALQYLPISKVLSVAFNRVAEAGQKNENVCV  
NDIDPDIQGSASDPVDTSISGPMRTEAAFVLPQHATETGELKPQLKLLLSHFSIPYDVE

ELWDSAKEMELFSLVSQKFQSVFMEQQRLQMFPDCEAGIAKADNLGLAGPRMTLKKKANW  
ISFIKIKPKCDPWQKKLLTKLKERRRTDALLQLQAKFLKISNPE

>sp|Q7Z4U5|CF201\_HUMAN Uncharacterized protein C6orf201 OS=Homo sapiens GN=C6orf201 PE=2  
SV=3

MLSNLHELLPNHLMETLYSRKSEEDKKKCENPELSGLERILARHQLPKEINLTPKPNRMP  
PWKRKIINNVTDGWKKCHLLKRNTKEPPMSTIVVRKLIQKNVPRRHSLRNTSRKLRNLPT  
TAKGTQTGKSQCLLGISEPT

>sp|POC671|CF222\_HUMAN Uncharacterized protein C6orf222 OS=Homo sapiens GN=C6orf222 PE=1  
SV=1

MENPRCPRRPLAEKKARSLDRPQAPGKSESWDCHWLSLPTAPSRKALHWTTSWARHSD  
SPAPSAEAHCTTAAAPTPEETGDFLPSEQRPSQDTKKGWLKTMLNFFVRTGPEEPREKAS  
RRPRGKEGISQHPPELEAAGEPALRKKAHHDKKPSRKKQGHHKHAAEVTKAAQDQEARGR  
EEGLSKAAAALRSGEADLGPARRGGEDSDHQSFLLIKVDGTGALDVSPHATGHQEEELKK  
PDQDAIIQMIVELLKRVGDQWEEEQSLASQLGVALPNPAPAVRKKSQEKKTSLKRTSKTN  
PKKHGSEEAKRGAADVSSPEAWPPKKSSFLPLCVSGHRPSISSSYGLEEPKVQEAPSTEA  
GAPGPSVLPTPSESQEPGEELPLDRASEYKEFIQKIIISMLQDAEEQQGEEQPQVQQEEVG  
VENPAPHCRRKSQEKRSSFRRAFVYHKKHTSKEPRRAGAAGAASPEARPKRPSFLPLCVG  
GHRPSTSSSLDPEDLECREPLAEGEPVVISEAPSQARGHTPEGAPQLSGACESKEIIIQ  
KLVALLEVDGQLGQQIRRHPSFKRFFYEFSDSSLSKLVATLRSQVAHSSKLDNRNRRL  
YQFDVSLANKFAGSNHAMCILMGLRDHYNCTQFPYREDQPNITSPKVESPD

>sp|Q96G28|CFA36\_HUMAN Cilia- and flagella-associated protein 36 OS=Homo sapiens  
GN=CFAP36 PE=1 SV=2

MAEEEEDEVWVVESIAGFLRGPDWSIPILDFVEQKCEVFDDEEESKLYTEIHQEYKEL  
VEKLLEGYLKEIGINEDQFQEAQTSPLAKTHTSQAILQPVLAAEDFTIFKAMMVQKNIEM  
QLQAIRIIQERNGLPDCLTDGSDVVSLEHEEMKILREVLRSKEEYDQEEERKRKKQL  
SEAKTEEPTVHSSEAAIMNNSQGDGEHFAHPPSEVKMHFANQSIEPLGRKVERSETSSLP  
QKDLKIPGLEHASIEGPIANLSVLGTEELRQREHYLKQKRDKLMSMRKDMRTKQIQNMEQ  
KGKPTGEVEEMTEKPEMTAEKQTLLKRLLAEKLKEEVINK

>sp|Q6ZTR5|CFA47\_HUMAN Cilia- and flagella-associated protein 47 OS=Homo sapiens  
GN=CFAP47 PE=2 SV=4

MNTQKGSLTINVHRGSLAMSIQRGSLVPRDMDSSGRDMLRVIPAEVKFLDTMAGRVIYRL  
PITVHNICRWNQIRFKEPVKPQFKLMLTSLDKELASGLQMTAMVEYHPDKDEDTFDRLL  
ISIENKTTEIPLIGLIPSCQLEIESVVNFGTLVANSKVYSKEITITNHGKAPGIFKAEYH  
GQLPILIFPTSGIVDAKSSMVIKVDFCADQPRIVDEEAIVILQGQPEMLLSIKAHVVEQI  
IELLSMSSDRLECIHFGPVFFGSSKIKHARVYNNSEPINWVAIIQDDAVGEELGTDIQ  
QRTDIALNNLTYIRKIKNIDTTIIISCLPNEGTLQPYQKTVITFCFTPKLMAVGKKDIGP  
SYRQDYALFLRFESVSGSKDGLRDDDYKTIKSERFQKVELALTGTGLPVLLQFDPGPVLN  
FKPCFMGERSEIQCIKKNQCELLPVTYHFKKTANFEIDPEKGKITGGGMVDMCSFVPHQ  
LGVFKVKQMIEIIGLVAEEDLQSLSVKSFHHVYLAFNISICKASTKKVVMKFDPGILPSIR  
NPTGKFVVKDLAKRKNYAPVAMLQSAMTRTHNHRSCPEPVKDMLLAFPNDRATIRSKDH  
HKHFRPIFTKVPRFNYNHDFAYTTFEKQKKLHENYAMYLKYLSVRLQKKQAERERM  
YSYDDTDIGLEPGSLKSPSLSEAEIEEELSSAANSIRANRLLTTRGIASQEEESVRRKV  
LKGLKSEPSTPQEKHDCSLMLTPKQIHQVIVGPSVLNFGNICVNSPNTHLLHVINMLPMH  
VLLQLDLDLEELQKTNQFSYVILPTSSTYISMVFDSPITGKFWKSFTFTVNNVPSGHILV



VAVVQPVLTLESSLNELVLRPRGFFMKTCFRGTVRLYNRQCCAQFQWQPVNTGRGIAFSI  
CPAKGTVEAYSSLECEVTWQQGFSSPEEGEFILHVFQGNALKLKCV AHLGRTKVLLQPR  
ILFSNCPQGLTTWRKAILQNVGQNHAYFKVCSQSLLPIINIIPSQGIVPFGGITVLNISC  
KPTVAEKFDTRAKVSI RHANVIDLRIGGSAE IADVEINPDVFNFSGAYIGGTQIIPFVIK  
NKGITRARVEFNLDKDFPDFSMDLKDKSEEFKDPVPYIYSLELEENTSLECSITFSPKEV  
TVVEFIIQVQINFESSKLYTKYLSSSPSNPKTVPLIRPCYVQATDRPGTYTADIPMLLN  
YIPVCYKILHLTGEVKSPELLFDPPFIFFTPVPLDITTVMDINILPQNYFRNSTLCVQIP  
TVRLLDGEEIHPLSVKFPKGRVIPGSHSGINNKL TCHLSFKSSKPVSFNTLLFCDDRKN  
WFSLPVTATAENCILTIYPYMAIHLDKQNIILKNDKDEYLKKT RDGVLPPYQDAKPPSPA  
SIKKTYTTSKFND AEPKGNLFIGVEVLPENLHLD ESETSEEDHGSLEKEKYEQFLSLEE  
GTAHYFFEKVVNAAQTWFSLFGWPEGPHSFSIPETIRRDVYKMFYSSTSPQKFSRQN  
DFS KYNTIYDVLHL SGKMPPGINSSQSLPVDNHEKRV IQLHLQHSSLLDFLNAQGGCI  
SHVLPEFLLEPEDYKRWIEIMSSNTMPVSSCTPKKKCSIVIEMSKFEAWSKRAWTDVFL  
QIYKVLVLSRVVPYCSNMPPICVQNTPKVNPCFASSNIYSDSERILLSWMNINYENTRH  
VIWKNCHKDVIPSERWIVNFDKDLSDGLVFATQLGAYCPFLIESHF INMYTRPKSPEEYL  
HNCLII VNTLYEIDFDVEIQATDIDCPNPILMLMLCVMYERLPTYLPKKVVSFECTLHD  
TVLNKILLKNSSSRNLVYNARIVGRDAADFSLSQKGNVVTISPRNEINVTLKFTSRFIRP  
AEASLLLSKPKNAVRGITMTFALKGKVLDFKAIDI IKCESPCYQFQEVTVNVKNPFHTA  
GDFSVILVESSTFVSSPTKLTESRQYPKHDDDMSSSGSDTDQGCSDSPNVLHTSIKSTFI  
REFFCSMHTVHLGVKGTSSLELRLFPNMHVRYCVIILSNKKIGQLIYV AEGKGMTPLPS  
SCLPMNTSSSPVYYSTTREEGNKKYPVLYLKCKPYQILYVDLKLPMTNEAKEKALAFAA  
QQQMSSIEYERRLITGTLESSIRVAIALGLTKIETLMLFRISKLRKPKTVSYTTEVSL  
PKYFYIPEKISIPWIEPQVIKLSKAKASDGSVPLPLQFLPLQSGRYPCKILLKSRYDVR  
AYYVEGIVNEEQPEAKFEFETPAFEALTQNIPIKNQTN DKWTFQVTIEGEWFYGPVDLHV  
GPDEIVEYPLTFKPIFE CVITGKILQNEVDGREHIFDIKGVGKKPSALEHITVECQVGN  
VTQKHITLPHFTNTALT FKV TADLP IVWGNPQITVYPYKEILYL IHRVPWKRGI LKGTIT  
FSTTRRCTTRRKHDDYEEDTDQDQALSCLDSITEQSSILDDADTYGNFNNLRFWYNLEIH  
STPGPIEIMEMTCIALDSTCIEIPLSNPKDRGLHLEVQLTSAALNGDNEIILSPLQCTK  
YIVWYSPATTGYSDESIIFQPEMAEEFWYLLKLTIELPKPTMPEIQCDLGKHVTQI IPL  
VNCTHETLKLQVTNSNPENFVLDINRKSQLIISPHSTTELPVLFYPSALGRADHQACINF  
YCTQFTEWKFYLSGVGLFPQLDTERITTRIGLQSTIVIPFKNPTMEDVLIDIILTSVEH  
PRNLVMDHCWDSFIYESSAFRFSPPSEIQGIALPPKGNIDISLLFIPQIMKLHKT MVIE  
MTKANGKYWPIDNFD ELDIKFSIVGIDSEEIQA IHWIYPIVGLPQAPPPKSPVVIQCQ  
SRKRAEEKVEIILNAGFFGFSLTPDLTEVLVIPKRNSHNFCEDPNEIPKIH EFEYEIQFE  
SEAMKSKLESCVALYMIKSYDIMAKRITFIFNLVFTPKKPLRSHITL KIECVTEGIWKF  
PIMLIATEPDTDAVIDIEGVGLFKESVFELRLKSQTRNPEPFTA HFLPGSDLEFFVKPQA  
GELLPFNTNGTLITVGFKPKMYCRKYKATLVIQTEEMYWKYEINGLTPTTVPPKNAKAKI  
DATHKTHDNMPVRPHNFVRENTKLIRTGVSSSTIKGAPLVKNQ

>sp|Q96M91|CFA53\_HUMAN Cilia- and flagella-associated protein 53 OS=Homo sapiens  
GN=CFAP53 PE=1 SV=2

MYSQRFQTVQREVKGPTPKVVI VRSKPPKGQGA EHHLERIRRS HQKHNA ILASIKSSERD  
RLKAEWDQHNDCKILDSLVRARIKDAVQGFII NIEERRNKLRELLALEENEYFTEMQLKK  
ETIEEKKDRMREKTKLLKEKNEKERQDFVAEKL DQQFRERCEELRV ELLSIHQKKVCEER  
KAQIAFNEELSRQKLVEEQMFSKLWEEDRLAKEKREAEARRQKELMENTRLGLNAQITS

IKAQRQATQLLKEEEARLVESNNAQIKHENEQDMLKKQKAKQETRILQKALQERIEHTQ  
QEYRDEQDLNMKLVQRALQDLQEEADKKKQKREDMIREQKIYHKYLAQRREEEKAQEKEF  
DRILEEDKAKKLAEKDKELRLEKEARRQLVDEVMCTRKLQVQEKLRQAQEEERAMEQK  
HINESLKELNCEEKENFARRQLAQEYRKQLQMQUIAYQQQSQAEEKEEKRREFEAGVAAN  
KMCLDKVQEVLSHQVLPQNIHPMRKACPSKLPP

>sp|Q8NI28|CG013\_HUMAN Putative uncharacterized protein encoded by LINC01006 OS=Homo sapiens GN=LINC01006 PE=5 SV=1

MLASPARPTLRMLANHALSTPHCACSPAPARTASASRRRCVPVEARAAGVFGDRLAGVF  
GSRGLKHGGVQAPRPRVRAEPAGFAVVRSPRRLCGRSHAPQPPAHLGLGPCFPAVAV  
VVPVPGSRAHRPFAALLVEGSFLGDPPIPPRRSGVLARGSAGADCLASSVTPGPSLWIPL  
LLVAGCVSCFVGLAVCVMMQARVSPAWPAGLFLLPR

>sp|Q8N6G5|CGAT2\_HUMAN Chondroitin sulfate N-acetylgalactosaminyltransferase 2 OS=Homo sapiens GN=CSGALNACT2 PE=1 SV=1

MPRRGLILHTRTHWLLLGLALLCSLVLFMYLLECAPQTDGNASLPGVVGENYGYKEYYQAL  
LQEQEEHYQTRATSLKRQIAQLKQELQEMSEKMRSQERRNVGANGIGYQSNKEQAPSDL  
LEFLHSQIDKAEVSIKALPSEYGVIPFESFTLMKVFQLEMGLTRHPEEKPVKDKRDEL  
VEVIEAGLEVINNPDDEDEQEDEEGPLGEKLIFNENDFVEGYRTERDKGTQYELFFKKA  
DLTEYRHVTFRPFGLMKVKSEMDITRSIINIIVPLAERTEAFVQFMQNFQDVCIHQD  
KKIHLTVVYFGKEGLSKVKSILESVTSESNFHNYTLVSLNEEFNRRGLNVGARAWDKGE  
VLMFFCDVDIYFSAEFLNSCRLNAEPGKKVFYPVVFSLYNPAIVYANQEVPPPVEQQLVH  
KKDSGFWRDFGFGMTQYRSDFLTIGGFDMEVKGWGGEDVHLRYKYLHGDIVIRTPVPG  
LFHLWHEKRCADLTPEQYRMCIQSKAMNEASHSHLGMLVFREEIETHLHKQAYRTNSEA  
VG

>sp|Q16880|CGT\_HUMAN 2-hydroxyacylsphingosine 1-beta-galactosyltransferase OS=Homo sapiens GN=UGT8 PE=2 SV=2

MKSYTPYFILLWSAVGIAKAAKIIIVPPIMFESHMYIFKTLASALHERGHHTVFLLEGR  
DIAPSNHYSLQRYPGIFNSTTSDAFLQSKMRNIFSGRLTAIELFDILDHYTKNCDLMVGN  
HALIQGLKKEKFDLLVDPNDMCGFVIAHLLGVKYAVFSTGLWYPAEVGAPAPLAYVPEF  
NSLLTDRMNLQRMKNTGVYLISRLGVSFVLVPKYERIMQKYNLLPEKSMYDLVHGSSLW  
MLCTDVALEFPRPTLPNVVYVGGILTKPASPLPEDLQRWVNGANEHGFVLVSFGAGVKYL  
SEDIANKLAGALGRLPQKVIWRFSGPKPKNLGNNTKLEIWLQNDLLGHSKIKAFLSHGG  
LNSIFETIYHGVVVGIPLFGDHYDTMTRVQAKGMGILLEWKTVTEKELYEALVKVINNP  
SYRQRAQKLSEIHKDQPGHPVNRTIYWIDYIIRHNGAHLRAAVHQISFCQYFLLDIAFV  
LLLGAALLYFLLSWVTKFIYRKIKSLWSRNKHSTVNGHYHNGILNGKYKRNGHIKHEKKV  
K

>sp|Q96KT6|CH014\_HUMAN Putative uncharacterized protein encoded by LINC00208 OS=Homo sapiens GN=LINC00208 PE=5 SV=1

MGQSLQEGRKQGRLLPAPSAHFLKHAHLASPSEVGGEPEIGSLCASHVLHMSPLYSVNLQ  
VSPGSLTFHSLSLRSTSTRLPQSTYIVGPLC

>sp|Q96LL4|CH048\_HUMAN Uncharacterized protein C8orf48 OS=Homo sapiens GN=C8orf48 PE=1 SV=2

MAICPELAQTDKSALANLSDDETETLKNSTDEVQTSSSFSSSGGRQSSPLTSGSKLEREQ  
TPSLEQGDTSSELLDYKNYEKKLSKKWINYLKLDKSNFERHQPDTKLPTEITRVSDEELN  
ALQSYCTMKINLIHRRGDSKKKTSSRHKKLHLGLDVEASERDAFSCVPDELLNRIYFKN

MRTTPKQEAAAKQHISYQCPYCNRKRAELALSAFLKQKKTLLSFLLQERIDEHLHTKDF  
LTRIGEAHQDFPRLSDDPRIIWKRLTEKSHIRYSGFERSETEQKLQRDGNLSACHLPFSLP  
FLKRLTLIKPELVIVNDNV

>sp|Q9Y4M8|CH071\_HUMAN Putative uncharacterized protein encoded by LINC00588 OS=Homo sapiens GN=LINC00588 PE=5 SV=1

MATFHRAHATSSVKPRARRHQEPNSGDWPGSYRAGTRCSAIGFRLHSPQHWRPRSLGAG  
QGREDPSWEGGALGDLKALWDQPCPPPWWQLQLSSAYGARQQRWQLSTLPEPPAARTPG  
QMPQQRLIRAAGPSAAGGGNQWLSPM

>sp|Q9Y6H1|CHCH2\_HUMAN Coiled-coil-helix-coiled-coil-helix domain-containing protein 2 OS=Homo sapiens GN=CHCHD2 PE=1 SV=1

MPRGSRSRTSRMAPPASRAPQMRAAPRPAPVAQPPAAAPPSAVGSSAAAPRQPGLMAQMA  
TTAAGVAVGSAGVHTLGHAITGGFSGGSNAEPARPDITYQEPQGTQPAQQQQPCLYEIKQ  
FLECAQNQGDIKLCEGFNEVLKQCRLANGLA

>sp|Q5T1J5|CHCH9\_HUMAN Putative coiled-coil-helix-coiled-coil-helix domain-containing protein CHCHD2P9, mitochondrial OS=Homo sapiens GN=CHCHD2P9 PE=5 SV=1

MPRGSRSRTSRMAPPASRAPQMRAAPRPAPVAQPPAAAPPSAVGSSAAAPRQPGLMAQMA  
TTAAGVAVGSAGVHTQGHAVTGGFSGGSNAEPARPDIAQEPQGTQPAQQQQPCFYGIKQ  
FLECAQNQGDIKLCEDFSQVLKQCRLAKGLA

>sp|Q86WJ1|CHD1L\_HUMAN Chromodomain-helicase-DNA-binding protein 1-like OS=Homo sapiens GN=CHD1L PE=1 SV=2

MERAGATSRGGQAPGFLLRLHTEGRAEAARVQEQLRQWGLTGIHLRSYQLEGVNWLAQR  
FHCQNGCILGDEMGLGKTCQTIALFIYLAGRLNDEGPFLILCPLSVLSNWKEEMQRFAPG  
LSCVTYAGDKEERACLQQDLKQESRFHVLLTTEYICLKDASFLKSFPWSVLVDEAHLK  
NQSSLLHKTLSFESVVSLLLGTPIQNSLQELYSLLSFVEPDLFSKEEVGDFIQRYQDI  
EKESESASELHKLQPFLLRRVKAEVATELPPKTEVVYHGMALQKKYKAILMKDLDA  
FENETAKKVKLQNILSQLRKCDHPYLFDGVEPEPFEVGDHLTEASGLHLLDKLLAFLY  
SGGHRVLLFSQMTQMLDILQDYMDYRGYSYERVDGSGVRGEERHLAIKNFGQQPIFVFLS  
TRAGGVGMNLTAADTVIFVDSDFNPQNDLQAAARAHRIQNKSVKVIIRLIGRDTVEEIVY  
RKAASKLQLTNMIIEGGHFTLGAQKPAADADLQLSEILKFGLDKLLASEGSTMDEIDLES  
ILGETKDQGWSDALPAAEGGSRDQEEGKNHMYLFEGKDYSKEPSKEDRKSFEQLVNLQK  
TLLEKASQEGRSLRNKGSVLIPGLVEGSTKRKRVLSPPEEDRQKKRQEAAAKRRRLIEE  
KKRQKEEAHKKKMAWESNNYQSFCLPSESEPEDLENGEESAELDYQDPDATSLKYV  
SGDVTHPQAGAEDALIVHCVDSDGHWGRGGLFTALEKRSAPRKIYELAGKMKDLSLGGV  
LLFPVDDKESRNKGQDLLALIVAQHRDRSNVLSGIKMAALEEGLKKIFLAAKKKKASVHL  
PRIGHATKGFNWTYGERLIRKHLAARGIPTIYYFPRSKSAVLHAQSSSSSRQLVP

>sp|Q8TD26|CHD6\_HUMAN Chromodomain-helicase-DNA-binding protein 6 OS=Homo sapiens GN=CHD6 PE=1 SV=4

MMMKIQKKEKQLSNLKVNLHSPMSDASVNFYKSPSPFDCSTDQEEKIEDVASHCLPQKD  
LYTAEAAAATLPRKMTSHNGMEDSGGGTGKVKKKKKKEPGDQEGAAGKSKDREPKPKR  
KREPKEPKPRKAKEPKKAKEHKEPKQKDGAKKARKPREASGTKEAKEKRSCTDSAARTK  
SRKASKEQGPTPVEKKKKGKRKSETTVESLELDQGLTNPSLSPEESTESTDSQKRRSGR  
QVKKRRKYNEDLDFKVDDDGETIAVLGAGRTSALSASTLAWQAEPPEDDANIIEKILAS  
KTVQEVHPGEPFDELFLFYVKYRNFYSYLHCKWATMEELEKDPRIAQKIKRFRNKQAQMKH  
IFTEPDEDLFPNDYVEVDRILEVAHTKDAETGEEVTHYLVKWCSLPYEESTWELEEDVDP

AKVKEFESLQVLPEIKHVERPASDSWQKLEKSREYKNSNQLREYQLEGMNWLLFNWYNRK  
NCILADEMGLGKTIQSITFLSEIFLRGIHGPFLIIAPLSTITNWEREFRTWTEMNAIVYH  
GSQISRQMIQQYEMVYRDAQGNPLSGVFKFHVITTFEMILADCEPKKIHWSCVIIDEA  
HRLKNRNCKLLEGLKLMALHVKVLLTGTPLQNSVEELFSLNLFLEPSQFPSETAFLEEFQ  
DLKTEEQVKKLQSIKPMMLRRLKDDVEKNLAPKQETIIIEVELTNIQKKYYRAILEKNFS  
FLTKGANQHNMPNLINTMMELRKCCNHPYLINGAEEKIILEDFRKTHSPDAPDFQLQAMIQ  
AAGKLVLIDKLLPKLIAGGHKVLIFSQMVRCLEIDYLIQRRYTYERIDGRVRGNLRQA  
AIDRFCKPDSDFVFLCTRAGGLGINLTAADTCIIFDSWNPQNDLQAQARCHRIGQSK  
AVKVYRLITRNSYEREMFDKASLKLGLDKAVLQDINRKGGTNGVQQLSKMEVEDLLRKGA  
YGALMDEEDEGSKFCEEDIDQILQRRTHITITIQSEGKGSTFAKASFVASGNRTDISLDDP  
NFWQKWAKIAELDEAKNEKESLVIDRPRVRKQTKHYNSEFEDELMEFSELDSDSDERPT  
RSRRLNDKARRYLRACFRVEKNLLIFGWGRWKDILTHGRFKWHLNEKDMEMICRALLVY  
CVKHYKGDEKIKSFIWELITPTKDGQAQTLQNHSGLSAPVPRGRKGKTKNQLLIPELKD  
ADWLATCNPEVVLHDDGYKKHLKQHCNKVLLRVRMLYYLKAELGEAAEKAFEGSPAREL  
DVPLPDIDYMEIPVDWWDAEADKSLIGVFKHGYERYNAMRADPALCFLEKVGMPDEKSL  
SAEQGVTDGTSDIPERGNTDKEDNAEDKVDGLQKQTESSSDGGDGVFSEKKDDSRAAQDG  
SDPKSPWPVSSALTARLRLVTVYQRCNRKELCRPEILGPGNQGYWVQEEMFRTSEMD  
LINKEAQKRWTRREQADFYRTVSSFGVVYDQEKKTFDWTQFRIISRLDKKSDSELEQYFY  
SFVAMCRNVCRLPTWKDGGPPDITIYVEPITEERAARTLYRIELLRKVREQVLKCPQLHE  
RLQLCRPSLYLPVWWECKHNRDILLIGTAKHGLNRTDCYIMNDPQLSFLDAYRNYAQHKR  
SGTQAPGNLCCLYQTNKSLYESLTYSQMSRTSELENENENLVRVESRDDHLSLPDVTCE  
NFISKVQDVISINHDESLPESLESMMYGKKVLSQEPSSFQESPSTNTESRKDVITISIS  
KDGNCQSGGPEAEIASGPTFMGSLAAGGVAQANIKNGKHLMSISKEGELCCSEAGQRPE  
NIGQLEAKCLASPSLNPGNESGFVDMCSLSVCDSKRNLSSDQQLIDLLENKSLESKLILS  
QNHSDEEEEEENEEENLAMAVGMGERPEVLHLTEPTTNIISREKNQGFQDETKKGSLEVA  
NQTPGLQRAFPAPAACQCHCKHMERWMHGLENDDEFIEKPKAYIPDLFKSKTNTIAMEGE  
PTAIPSPQPFVKHELLEKPEWKESAEGQNVFPTYPLEGSELKSEDMDFENKDDYDRDGNCH  
SQDYPGKYSEESKSSTSGITGDIGDELQEARPTIAQLLQEKTLYSFSEWPKDRVIINR  
LDNICHVVLKKGWPSSQQYEPSGTLPTPVLTSAGSRTSLSEPEAAEHFSNGAALAAQI  
HKESFLAPVFTKDEQKHRRPYEFEVERDAKARGLEQFSATHGHTPIILNGWHGESAMDLS  
CSSESGPGATSPFPVSASTPKIGAISLQGALGMDLSGILQAGLIHPVTGQIVNGSLRRD  
DAATRRRRGRKRKHVEGGMDLIFLKEQTLQAGILEVHEDPGQATLSTTHPEGPGPATSAPE  
PATAASSQAESIPSKSLDLWRQQADYSLEVPGFGANFSDKPKQRRPRCKEPGKLDVSS  
LSGEERVAIPKEPGLRGLPENKFNHTLAEPILRDTGPRRRGRRRPRSELLKAPSIIVADS  
PSGMGPLFMNGLIAGMDLVGLQNMNRNMPGIPLTGLVGFPAGFATMPTGEEVKSTLSMLPM  
MLPGMAAVPQMFGVGGLSPPMATTCTSTAPASLSSTTKSGTAVTEKTAEDKPSSHVDVKT  
DTLAEDKPGPGPFSQSEPAITSSPVAFNPFLIPGVSPGLIYPSMFLSPGMGMALPAMQ  
QARHSEIVGLESQKRKKKTKGDNPNSHPEPAPSCEREPSGDENCAEPSAPLPAERHGA  
QAGEGALKDSNNDTN

>sp|Q9Y3E7|CHMP3\_HUMAN Charged multivesicular body protein 3 OS=Homo sapiens GN=CHMP3  
PE=1 SV=3

MGLFGKTQEKPPKELVNEWSLKIRKEMRVVDRQIRDIQREEEKVKRSVKDAAKKGQKDV  
IVLAKEMIRSRKAVSKLYASKAHMNSVLMGMKNQLAVLRVAGSLQKSTEVKAMQSLVKI  
PEIQATMRELSKEMMKAGIIIEMLEDTFESMDDQEEMEEEAEMEIDRILFEITAGALGKA

PSKVTDALPEPEPPGAMAASEDEEEEEALEAMQSRLATLRS

>sp|Q99653|CHP1\_HUMAN Calcineurin B homologous protein 1 OS=Homo sapiens GN=CHP1 PE=1 SV=3

MGSRASTLLRDEELEEEIKKETGFSSHQITRLYSRFTSLDKGNGTSLREDFQRIPELAIN  
PLGDRIINAFPEGEDQVNFRGFMRTLAHFRPIEDNEKSKDVNGPEPLNSRSNKLHFAFR  
LYDLDKDEKISRDELLQVLRMMVGVNISDEQLGSIADRTIQEADQDGDSAISFTEFVKVL  
EKVDVEQKMSIRFLH

>sp|Q8WUH1|CHUR\_HUMAN Protein Churchill OS=Homo sapiens GN=CHURC1 PE=1 SV=2

MRQPYLSSREVSSSRKRWRFTFPVDCVAMCGDCVEKEYPNRGNTCLENGSFLNFTGCAVC  
SKRDFMLITNKSLEEDGEEIVTYDHLCKNCHHVIARHEYTFSIMDEFQEYTMCLLCGK  
AEDTISILPDDPRQMTLLF

>sp|Q96LT7|C1072\_HUMAN Protein C9orf72 OS=Homo sapiens GN=C9orf72 PE=1 SV=2

MSTLCPPSPPAVAKTEIALSGKSPLLAATFAYWDNILGPRVRHIWAPKTEQVLLSDGEIT  
FLANHTLNGEILRNAESGAIDVKFFVLSEKGVIIIVSLIFDGNWNGDRSTYGLSIIILPQTE  
LSFYPLPLHRVCVDRLTHIIRKGRIWMHKERQENVQKIIILEGTERMEDQGQSIIPMLTGEV  
IPVMELLSSMKSHSVPEEIDIADTVLNDDDIGDSCHEGFLNNAISSHLQTCGCSVVVGSS  
AEKVNKIVRTLCLFLTPAERKCSRCEAESSFKYESGLFVQGLLKDSTGSFVLPFRQVMY  
APYPTTHIDVDVNTVKQMPPCHEHIYNQRRYMRSELTAFWRATSEEDMAQDTIIYTDSEF  
TPDLNIFQDVLHRDTLVKAFLDQVFQLKPGLSLRSTFLAQFLLVLHRKALTLIKYIEDDT  
QKGKKPFKSLRNLIKIDDLTAEGDLNIMALAEKIKPGLHSFIFGRPFYTSVQERDVLMT  
F

>sp|Q96RK0|C1C\_HUMAN Protein capicua homolog OS=Homo sapiens GN=C1C PE=1 SV=2

MYSahrPLMPASSAASRGLGMFVWTVNVEPRSAVFPPWHSVLPFLAPSQPDPSVQPSEAQQ  
PASHPVASNSKEPAESAABAHERPPGGTGSADPERPPGATCPESPGPGPPHPLGVVESG  
KGPPPTTEEEASGPPGEPRLDSETHDDAFLSIMSPEIQLPLPPGKRRTQSLSALPKE  
RDSSEKDGSRPNKREKDHIRPMNAFMIFSKRHRALVHQRHPNQDNRTVSKILGEWWYA  
LGPKEKQKYHDLAFQVKEAHFKAHPDWKCNKDRKSSSEAKPTSLGLAGGHKETRERSM  
SETGTAAAPGVSSSELLSVAQTLSSDTKAPGSSSCGAERLHTVGGPGSARPRAFSHSGV  
HSLDGGGEVDSQALQELTQMVGSPASYSQPKPSTQYQAGPFPAAPGEGGALAATGRPPLLP  
TRASRSQRAASEDMTSDEERMVICEEEGDDDV IADDGFGTTDIDLKCKERVTDSESGDSS  
GEDPEGNGKGFGRKVFSPVIRSSFTHCRPPLDPEPPGPPDPVAFGKGYGSAPSSSASSPA  
SSSASAATSFSLSGTFKAQESGGSTAGPLRPPPPGAGGPATPSKATRFLPMDPATFRR  
KRPEVGGLEPPGPSVIAAPPSGGGNILQTLVLPPNKEEQEGGARVPSAPAPSLAYGAP  
AAPLSRPAATMVTNVVRPVSSTPVPIASKPFPTSGRAEASPNDTAGARTEMGTGSRVPGG  
SPLGVS LVYSDKKSAAATSPAPHLVAGPLLGTVGKAPATVTNLLVGTGPGYGAPAPPAVQF  
IAQGAPGGGTTAGSGAGSGPNGPVPLGILQPGALGKAGGITQVQYILPTLPQQLQVAP  
APAPAPGTAAAPSGPAPTTSIRFTLPPGTSTNGKVLAAATPTGIPILQSVPSAPPPKA  
QSVSPVQAPPPGGSQALLPGKVLVPLAAPSMVSRGGGAGQPLPLVSPPPSVPVQNGAQQP  
SKIIQLTPVPVSTPSGLVPPLSPATLPGPTSQPKVLLPSSTRITYVQSAGGHALPLGTS  
PASSQAGTVTSYGPTSSVALGFTSLGPSGPAFVQPLLSAGQAPLLAPGQVGVSPVSPQQL  
PPACAAPGGPVITAFYSGSPAPTSSAPLAQPSQAPPSLVYTVATSTTPPAATILPKGPPA  
PATATPAPTSPFPSATAGSMYSLVAPKAQRPSPKAPQKVKAASIPVGSFEAGASGRP  
GPAPRQPLEPGPVREPTAPESELEGQPTPPAPPPLPETWTP TARSSPPLPPPAEERTSAK  
GPETMASKFPSSSDWRVPGQGLNRPPTPPSPAPAPAVAPGGSSESSSGRAAGDTPE

RKEAAGTGKKVKVRPPPLKKTDFSVDNRVLSEVDFEERFAELPEFRPEEVLPSPTLQSLA  
TSPRAILGSYRKKRKNSTDLDAPEDPTSPKRKMRRRSSCSSEPNTPKSAKCEGDIFTFD  
RTGTEADVLEGEYDKVPYSSLRRTLDQRRALVMQLFQDHGFFPSAQATAAFQARYADI  
FPSKVCLQLKIREVRQKIMQAATPTEQPPGAEAPLPVPPPTGTAAAPAPTPSPAGGPDPT  
SPSSDSGTAQAAPPLPPPPESGPGQPGWEGAPQSPPPPGPSTAATGR

>sp|Q9UHD4|CIDEB\_HUMAN Cell death activator CIDE-B OS=Homo sapiens GN=CIDEB PE=1 SV=2  
MEYLSALNPSDLLRSVSNISSEFGRRVWTSAPPPQRPFRVCDHKRTIRKGLTAATRQELL  
AKALETLLNGLVTLVLEEDGTAVDSEDFQLLEDDTCLMVLQSGQSWSPTRSGVLSYGL  
GRERPCHKSDIARFTFDVYKQNPRLDFGSLNVKATFYGLYSMSCDFQGLGPKKVLRELLR  
WTSTLLQGLGHMLLGGISSTLRHAVEGAEQWQKGRLHSY

>sp|O43734|CIKS\_HUMAN Adapter protein CIKS OS=Homo sapiens GN=TRAF3IP2 PE=1 SV=3  
MPPQLQETRMNRSIPVEVDESEYPYSQLLKPIPEYSPEEESEPPAPNIRNMAPNSLSAPT  
MLHNSSGDFSQAHSITLKLANKRQPVSRQVTCLRTQVLEDESDSFCRRHPGLGKAFPSGCS  
AVSEPASESVVGALPAEHQFSFMEKRNQWLVSQLSAASPDTHGSDKSDQSLPNASADSL  
GGSQEMVQRQPQHRNRAGLDLPTIDTGYDSQPQDVLGIRQLERPLPLTSVCYPQDLRPL  
RSREFPQFEPQRYPACAQMLPPNLSHPAPWNYHYHCPGSPDHQVPYGHDPRAAYQQVIQ  
PALPGQPLPGASVRGLHPVQKILNYPSPWDHEERPAQRDCSFPGLPRHQDQPHHQPNNR  
AGAPGESLECPAELRPQVPQPPSPAAPVPRPPSNPPARGTLKTSNLPEELRKVFITYSMDT  
AMEVVKFVNFLVNGFQTAIDIFEDRIRGIDIIKWMERYLRDKTVMIIVAISPKYKQDVE  
GAESQLDEDEHGLHTKYIHRMMQIEFIKQGS MNFRFIPVLFNPAKKEHVPTWLQNTHVYS  
WPKNKNILLRLLREEEYVAPPRGPLPTLQVVPL

>sp|Q8N5K1|CISD2\_HUMAN CDGSH iron-sulfur domain-containing protein 2 OS=Homo sapiens  
GN=CISD2 PE=1 SV=1  
MVLESVARIVKVQLPAYLKRLVPESITGFARLTVSEWLRLPLGLVLAALLGYLAVRPFL  
PKKKQKQDSLINLKIQKENPKVVNEINIEDLCLTKAAYCRCWRSKTFPACDGSHNKHNL  
TGDNVGPLILKKKEV

>sp|Q9H2I8|CJ011\_HUMAN Leucine-rich repeat-containing protein C10orf11 OS=Homo sapiens  
GN=C10orf11 PE=1 SV=1  
MEKYLSLGNHSSNKRSLGLESAFRSLEELILDNNQLGDDLVLPGLPRLHTLTLNKNRIT  
DLENLLDHLAEVTPALEYLSLLGNVACPNELVSLEKDEEDYKRYRCFVLYKLPNLKFLDA  
QKVTRQEREALVRGVFMKVVKPASSES DVASSPERHYTPLSASRELTS HQGVLGKCRY  
VYYGKNSEGNRFIRDDQL

>sp|POC842|CJ052\_HUMAN Putative uncharacterized protein encoded by LINC00614 OS=Homo  
sapiens GN=LINC00614 PE=5 SV=1  
MEGRNCTVEILPERLNIEGWYDADDTKPGKSWAGRAASIERLNEFDNNLFGISDLEAECL  
DPQQKLLLECTYGALESAGVPAKEVAGSRTGVFIGIMNQDYEFMSRRTPRMQTTVMPLDL  
Q

>sp|Q9NQ32|CK016\_HUMAN Uncharacterized protein C11orf16 OS=Homo sapiens GN=C11orf16 PE=2  
SV=3  
MESSTGPRMPLLYKCSVATSLKAPGWDGAAPPWDLSTYTPFALQAPWLTGHKPLARHASS  
CPCLHVADPAWQPGWLGRAGDAANTWVLARREADGFYRAQIKATPELERQGVLLVEFE  
APLVAGPKLPAQQRRVVLEEDVIPLSPSVGYSLRPGDKVLALWEPGQQYGPVTLLGLE  
MRDPQRASKEKEITVHFNGKAAKVPLGGVQSVSLTIWKAVERLHKSFTREHPRPLHWA  
PCCSLLGPITGRITNELPPDAPFLCPLCHHHACQQLLCQGCLCGCPPCGTTWWPLTRTSE

VMARELPELEPTAQLLPLEGPKEEKVAMHAPLAVSSSSSSCEQDGVENDLEMGPPQRLM  
VNSAVNTDPIFLEMLRQSGLCQPEWRYWKRNGPEPCLGKPGTRYSNICKEEKDHKQORA  
QTAVVGTTKELVSKATHMKPPRTPPGEAEHRKRSQSLAICQWNKNSR

>sp|Q96F05|CK024\_HUMAN Uncharacterized protein C11orf24 OS=Homo sapiens GN=C11orf24 PE=1  
SV=2

MWTALVLIWIFSLSESHAASNDPRNFVPNKMWGLVKRNASVETVDNKTSEDVTMAAA  
SPVTLTKGTSAAHLSMEVTTEDTSRTDVSEPATSGGAADGVTSIAPTAVASSTTAASIT  
TAASSMTVASSAPTTAASSTTVASIAPTTAASSMTAASSTPMTLALPAPTSTSTGRTPST  
TATGHPSLSTALAQVPKSSALPRTATLATLATRAQTVATTANTSSPMSTRSPSKHMPSD  
TAASPVPPMRPQAQGPISQVSVDQPVVNTTNKSTPMPSNTTPEAPTPTVVTTTKAQARE  
PTASPVVPHTSPIPEMEAMSPPTQSPMPYTQRAAGPGTSQAPEQVETEATPGTDSTGP  
TPRSSGGTKMPATDSCQPSTQGQYMVVTTTEPLTQAVVDKTLVLLVLLGVTLFITVLVLF  
ALQAYESYKKKDYTVQVDYLINGMYADSEM

>sp|Q8IXP5|CK053\_HUMAN Uncharacterized protein C11orf53 OS=Homo sapiens GN=C11orf53 PE=2  
SV=1

MPGSPVTSGLYGVRRSFLSDSDFHNSKQFSNDVYTSSVGKFPFCESSAGQSHAALLEPYF  
PQEPYGDYRPPALTPNAGSLFSASPLPPLLPPFPDPAPHFRLFRDSWEQTLPDGLSQPDP  
VSADALLTLPPSTSCLSQLESGSIAQHRGSSWGSSLAGAQSLSHALEDLHHTPGYPTTP  
PYPFTPFMTVSNLPPKVGPLSPDEEADTGS LHDPSPWVKEDGSIAWGSYECRRAY

>sp|Q6ZUT1|CK057\_HUMAN Uncharacterized protein C11orf57 OS=Homo sapiens GN=C11orf57 PE=1  
SV=2

MSRIPLGKVLLRNVI RHTDAH NKIQEESDMWKIRELEKQMEDAYRGTKRKMLPSSSSRMR  
SDGFDEESQRYWRPKNEISGTLEDDFLKAKSWNKKFYDYEANMPDRWGHSGYKELYPEE  
FETSDQDQDITNGKKTSPQVKSSTHESRKHKKSKKSHKKKQKKRSHKKQKKSKEATDIT  
ADSSSEFSEETGASGTRKGKQPHKRKKKSRKKSLLKPPALFLEAESNTSHSDDSASSSSEE  
SEERDTKKTKRKKREKKAHTSVANNEIQERTNKRTNWKVATDERSAESSEDD

>sp|Q9H3H3|CK068\_HUMAN UPF0696 protein C11orf68 OS=Homo sapiens GN=C11orf68 PE=1 SV=2

MEPGEELEEESGPGGREDGFTAHLAAEAMAADMPWL VFDARTTPATELDAWLAKYPPS  
QVTRYGDPGSPNSEPVGWIAVYGGYSPNSGDVQGLQAWEALQTSGRPITPGTLRQLAI  
THHVLSGKWLMLAPGFKLDHAWAGIARAVVEGQLQVAKVSPRAKEGGRQVICVYTDFFT  
DRLGVLEADSIRAAGIKLLTYKPDVYTYLGIYRANRWHLCP TLYESRFQLGGSARGSR  
VLDRANNVELT

>sp|Q6IPW1|CK071\_HUMAN Uncharacterized protein C11orf71 OS=Homo sapiens GN=C11orf71 PE=2  
SV=2

MALNNVSLSSGDQRSRVAYRSSHGDLRPRASALAMVSGDGLVSRPEAIHLGPRQAVRPS  
VRAESRRVDGGGRSPREPDGRGRSRQARFSPYPIPAVEPDLLRSVLQQR LIALGGVIAAR  
ISV

>sp|A6NJI1|CK086\_HUMAN Uncharacterized protein C11orf86 OS=Homo sapiens GN=C11orf86 PE=4  
SV=2

MGTGLRSQSLREPRPSYGLQEPWGRPQEGQLRRALSLRQGQEKSRSQGLERGTEGPDAT  
AQERVPGSLGDTEQLIQARRGSRWWLRRYQQVRRRWESFVAIFPSVTLSPASP

>sp|Q8IZ96|CKLF1\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 1 OS=Homo  
sapiens GN=CTM1 PE=2 SV=1

MDPEHAKPESSEAPSGNLKQPETAALSLILGALACFIITQANESFITITSLEICIVVFF

ILIIYVLTLLHLLTYLHWPLDLTNSIITAVFLSVVAILAMQEKKRRHLLYVGGSLCLTAV  
IVCCIDAFVVTTKMRTNLKRFLGVEVERKLSPAKDAYPETGPDAPQRPA

>sp|Q9NQ89|CLO04\_HUMAN Protein C12orf4 OS=Homo sapiens GN=C12orf4 PE=2 SV=1

MKKNRERFCNREREFVYKFKVGSQCLELRVPLKFPVQENASHLHGRLMLLHSLPCFIEKD  
LKEALTQFIEEESLSDYDRDAEASLAAVKSGEVDLHQLASTWAKAYAETTLEHARPEEPS  
WDEDFADVYHDLIHSPASETLNLEHNYFVSISELIGERDVELKKLRERQGIEMEKVMQE  
LGKSLTDQDVNSLAAQHFESQDLENKWSNELKQSTAIQKQEYQEWIKLHQLKNPNNS  
SLSEIKVQPSQFRESVEAIGRIYEEQRKLEESFTIHLGAQLKTMHNLRLLRADMLDFCK  
HKRNHRSGVKLHRLQTALSLYSTSLCGLVLLVDNRINSYSGIKRDFATVCQECTDFHFPR  
IEEQLEVQVQVVLARTQRRSKLKESLDSGNQNGGNDKTKNAERNYLNVLPGEFYITRH  
SNLSEIHVAFHLCVDDHVKSGNITARDPAIMGLRNILKVCCTHDITTISIPLLLVDHMS  
EMTIPWCLRRAELVFKCVKGFMEMASWDGGISRTVQFLVPQSISEEMFYQLSNMLPQIF  
RVSSLTLTLSKH

>sp|Q96LP6|CLO42\_HUMAN Uncharacterized protein C12orf42 OS=Homo sapiens GN=C12orf42 PE=2  
SV=2

MSTVICMKQREEEFLLTIRPFANRMQKSPCYIPIVSSATLWDRSTPSAKHIPCYERTSVP  
CSRFINHMKNFSESPKFRSLHFLNFPVPFPERTQNSMACKRLLHTCQYIVPRCSVSTVSFD  
EESYEEFRSSPAPSETDEAPLIFTARGETEERARGAPKQAWNSSFLEQLVKKPNWAHSV  
NPVHLEAQGIHISRHTRPKGQPLSSPKNSGSAARPSTAIGLCRRSQTPGALQSTGPSNT  
ELEPEERMAVPAGAQAHPDDIQSRLLGASGNPVGKGAVAMAPEMPLPKHPHTPRDRRPQAD  
TSLHGNLAGAPLPLLAGASTHFPSKRLIKVCSSAPPRPTRRFHTVCSQALSRPVVNAHLH

>sp|Q9H741|CLO49\_HUMAN UPF0454 protein C12orf49 OS=Homo sapiens GN=C12orf49 PE=1 SV=1

MVNLAAMVWRRLLRKRWVLALVFGLSLVYFLSSTFKQEERAVDRNLLQVHDHNQPIPWK  
VQFNLGNSSRPSNQCRNSIQGKHLITDELGYVCERKDLLVNGCCNVNPSTKQYCCDGCW  
PNGCCSAYEYCVSCLQPNKQLLLERFLNRAAVAFQNLFMAVEDHFELCLAKCRTSSQSV  
QHENTYRDPIAKYCYGESPPPELFA

>sp|Q8N7H1|CLO61\_HUMAN Putative uncharacterized protein encoded by LINC01465 OS=Homo  
sapiens GN=LINC01465 PE=2 SV=1

MGGKSAVRHQLVLDCPREAASSAPALRPLGAAATSRAAPLAPLPAPSPRWGLGCGRVRY  
GPHPRRAVEPAAGPLSAPIIAGGHPAEAAAGSAKQQRHSREVPRPPVPQHPSGNSRSAL  
QEAKTEQTKTP

>sp|A8MTZ7|CLO71\_HUMAN Uncharacterized protein C12orf71 OS=Homo sapiens GN=C12orf71 PE=4  
SV=3

MAYSSNSDIEDSSKSNSNLSLSVGYPCEDTPCEDTTSWEDAPSKGPSIHFLPPVQGA  
WGTERIGRRMKRQDQIQDEPEQFCKLSIFLAWDVDIGSDNTDSRANRLNLDNLWIDKLP  
KERTKLSVGKLNVLVQEFQIFLENLKDDDAVFPETAQQDFQLSSGSPPEMVQMISQATAS  
QRTSAPEISSILSEQPEKDDTPSHTQAQCCLNFGWAFSWLRQRILPSLLRRDHPVNATKS  
PHRSAPTKRLFHRGKRIQPQETLELGHPI

>sp|Q7Z460|CLAP1\_HUMAN CLIP-associating protein 1 OS=Homo sapiens GN=CLASP1 PE=1 SV=1

MEPRMESCLAQVLQKDVGKRLQVGQELIDYFSDKQKSADLEHDQTMLDKLVGLATSWVN  
SSNYKVVLGMDILSALVTRLQDRFKAQIGTVLPSLIDRLGDAKDSVREQDQTLCLKIMD  
QAANPQYVWDRMLGGFKHNFRTRREGICLCCLATLNASGAQTLTSLKIVPHICNLLGDPN  
SQVRDAAINSLVEIYRHVGERVRADLSKKGLPQSRLNVIKTFDEVQKSGNMIQSANDKN  
FDDEDSVDGNRPSSASSTSSKAPPSSRRNVGMGTTRRLGSSTLGSKSSAAKEGAGAVDEE



DFIKAFDDVPVQIYSSRDLEESINKIREILSDDKHDWEQRVNALKKIRSLLLAGAAEYD  
NFFQHLRLLDGAFKLSAKDLRSQVREACITLGHLSVLGNKFDHGAEAIMPTIFNLIPN  
SAKIMATSGVVAVRLIIRHTHIPRLIPVITSNCTSKSVAVRRRCFEFLDLLQEWQTHSL  
ERHISVLAETIKKGIHDADSEARIEARKCYWGFHSHFSREAEHLHYHTLESSYQKALQSHL  
KNSDSIVSLPQSDRSSSSSQESLNRPLSAKRSPTGSTTSRASTVSTKSVSTTGSLQRSRS  
DIDVNAASAKSKVSSSSGTTPFSSAAALPPGSYASLGRIIRRRQSSGSATNVASTPDNR  
GRSRAKVVSQSQRSRSANPAGAGSRSSSPGKLLGSGYGGLTGSSRGPPVTPSSEKRSKI  
PRSQGCSRETSPNRIGLARSSRIPRSPMSQGCSRDTRESSRDTSPARGFPPLDRFGLGQ  
PGRIPGSVNAMRVLSTSTDLEAAVADALKKPVRRRRYEPYGMYSDDDANSDASSVCSESY  
GSRNGGIPHYLRQTEDVAEVLNHCASSNWSERKEGLLGLQNLKSRQLSRVELKRLCEI  
FTRMFADPHSKRVFSMFLETLVDFIIHKDDLQDWLFVLLTQLLKKMGADLLGSGVQAKVQ  
KALDVTRDSFPDQQFNILMRFIVDQTQTPNLKVKVAIILKYIESLARQMDPTDFVNSSET  
RLAVSRIITWTTEPKSSDVRKAAQIVLISLFELNTPEFTMLLGALPKTFQDGATKLLHNH  
LKNSNTSVGSPSNTIGRTPSRHTSSRTSPLTSPTNCSHGGLSPSRLWGWSADGLAKHPP  
PFSQPNСИPTAPSHKALRRSYSPSMLDYDTENLNSEEIYSSLRGVTEAIEKFSFRSQEDL  
NEPIKRDGKKECDIVSRDGAASPATEGRGGSEVEGGRTALDNKTSLLNTQPPRAFPGPR  
ARDYNPYPYSDAINTYDKTALKEAVFDDMEQLRDVPIDHSDLVADLLKELSNHNERVEE  
RKGALLELLKITREDSLGVWEEHFKTILLLLLETLGDKDHSIRALALRVLREILRNQPAR  
FKNYAELTIMKTLEAHKDSHKEVVRAAEAASTLASSIHPEQCIKVLCPIIQTADYPINL  
AAIKMQTKVVERIAKESLLQLLDIIPGLLQGYDNTESSVRKASVFCLVAIYSVIGEDLK  
PHLAQLTGSKMKLLNLYIKRAQTTNSSSSSSDVSTHS

>sp|Q8NC01|CLC1A\_HUMAN C-type lectin domain family 1 member A OS=Homo sapiens GN=CLEC1A  
PE=2 SV=2

MQAKYSSTRDMLDDGDTTMSLHSQGSATTRHPEPRRTEHRAPSSTWRPVALTLLTLCLV  
LLIGLAALGLLFFQYYQLSNTGQDTISQMEERLGNTSQELQSLQVQNIKLAGSLQHVAEK  
LCRELYNKAGAHRCSPCTEQWKWHGDNQYQFYKDSKSWEDCKYFCLSENSTMLKINKQED  
LEFAASQSYSEFFYSYWTGLLRPDSGKAWLWMDGTPFTSELFHIIIDVTSRPSRDCVAIL  
NGMIFSKDCKELKRCVCERRAGMVKPESLHVPPETLGECD

>sp|Q9Y6N3|CLCA3\_HUMAN Calcium-activated chloride channel regulator family member 3  
OS=Homo sapiens GN=CLCA3P PE=1 SV=1

MVFSLVKILFLSLLSPVLKSSLVTLNNGYDGIVIAINPSVPEDEKLIQNIKEMVTEAS  
THLFHATKQRAYFRNVSILIPMTYKSKSEYLIPKQETYDQADVIVADLYLKYGDDPYTLQ  
YGQCGDKGQYIHFTPNFLLTNLATYGPRGKVFVHGWAHLRWGVFDEYNVDQPFYISRRN  
TTEATRCSTRITVYMLNECKGASCIARPFRRDSQTGLYEAKCTFIPKRSQTAKESIVFM  
QNLDVTEFCTEKTHNKEAPNL

>sp|Q14CN2|CLCA4\_HUMAN Calcium-activated chloride channel regulator 4 OS=Homo sapiens  
GN=CLCA4 PE=1 SV=2

MGLFRGFVFLVLCLLHQSNTSFIKLNNGFEDIVIVIDPSVPEDEKIEQIEDMVTAS  
TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKKHADVIVAPPTLPGRDEPYTKQ  
FTECGEKGEYIHFTPDLLLKGKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK  
KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDQVQTEKASIMFM  
QSIDSVVEFCNEKTHNQEAPSLQNIKNFRSTWEVISNSEDFKNTIPMVTTPPPPVFSL  
KISQRIVCLVLDKSGSMGGKDRNLNRMNQAQKHFLQTVENGSWGMVHFDSTATIVNKLI  
QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLTGDEDNTAS

SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN  
TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM  
ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM  
NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNQDV  
YSRYFTAYTENGYSKLVRAHGGANTARLKLRPPLNRAAYIPGWVNGEIEANPPRPEID  
EDTQTTLDEFRTASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWTAPGDN  
FDVGKQVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH  
IFIAIKSIDKSNLTSKVSNIQVTLFIPQANPDDIDPTPTPTPTPTDKSHNSGVNISTL  
VLSVIGSVVIVNFILSTTI

>sp|POC854|CECR9\_HUMAN Putative cat eye syndrome critical region protein 9 OS=Homo sapiens  
GN=CECR9 PE=5 SV=1

MQSHLAPLACAAAAGRAGGSCQAAQPEDRRVLRYPGTAVMVTCPNRPLVPRPLTPGGSR  
ASLALCAFVAVPQRIPQPLLPAYILLMLPSLVVDMALPSSRLRSIKPIQPASQVVRKER  
NPNPNCPQSDPLMKASSTSFLSHTYLINKTRSTTRKVEEHSWFTCTGAKYFAIPLAERNT  
KRLTKRSTHAQLLRGKQDGSEWVVRSSASSNVLYH

>sp|Q8TAP6|CEP76\_HUMAN Centrosomal protein of 76 kDa OS=Homo sapiens GN=CEP76 PE=1 SV=1

MSLPPEKASELKQLIHQQLSKMDVHGRIREILAETIREELAPDQQLSTEDLIKALRRRG  
IIDDVMKELNFVTDSEVELPSSPKQPICFDRQSTLKKTNIDPTRRYLYLQVLGGKAFLE  
HLQEPEPLPGQVCSTFTLCLHYRNQFRSKPVPCACEPDFHDGFLLEVHRESLGDGTRMA  
DSTTMLSISDPIHMLIKTDIFGETTLVASYFLEWRSVLGSENGVTSLTVELMGVGTESK  
VSVGILNIKLEMYPLNQTLSEVVNTQLALERQKTAEKERLFLVYAKQWWREYLQIRPS  
HNSRLVKIFAQDENGINRPVCSYVKPLRAGRLLDTPRQAARFVNVLYGERAPVIGGGKQ  
EQWCTLLAFLCRNKGDCEDHANLLCSLLGYGLEAFVCGVTKAKGVPHAWVMTCTGDGAI  
TFWESLTGHRYIHKPTNPDEPPVAEQPKPLYPYRTIGCVFNHQMFLGNCQPSDAVETCVF  
DLNDESKWKPMSEEAIKSVCAPGATTSLPFPPLCASTIDASVTSNEIEMQLRLLVSEHR  
KDLGLTTVWEDQLSYLLSPALASYEFERTTISAGNEEFQDAIRRAVPDGHFTKGFPIHF  
VYRNARRAFATCLRSPFCEEIICCRGDQVRLAVRVRVFTYPESACAVWIMFACKYRSVL

>sp|Q8TCT0|CERK1\_HUMAN Ceramide kinase OS=Homo sapiens GN=CERK PE=1 SV=1

MGATGAAEPLQSVLVVKQRCVSLPARALLRWWRSPGPGAGAPGADACSVPVSEIIAV  
EETDVHGKHQSGKWQKMEKPYAFTVHCVKRARRHRWKAQVTFWCPEEQQLCHLWLQTLR  
EMLEKLTSRPKHLLVFINPFGGKGQKRIYERKVAPLFTLASITTDIIIVTEHANQAKETL  
YEINIDKYDGIVCGGDMFSEVLHGLIGRTQRSAGVDQNHPRAVLPSSLRIGIIPAGS  
TDCVCYSTVGTSDAETSALHIVGDSLAMDVSSVHHNSTLLRYSVSLGYGFYGDIIKDS  
EKKRWLGLARYDFSLGKTLFLSHHCYEGTVSFLPAQHTVGSPRDRKPCRAGCFVCRQSKQQ  
LEEEQKKALYGLEAAEDVEEWQVVCCKFLAINATNMSCACRRSPRGLSPAHLGDGSSDL  
ILIRKCSRNFNRLFLIRHTNQDQDFDTFVEVYRVKKFQFTSKHMEDESDLKEGGKKRF  
GHICSSHPSCCCTVSNSSWNCDEVLHSPAIEVRVHCQLVRLFARGIEENPKPDSHS

>sp|Q86T20|CF001\_HUMAN Uncharacterized protein C6orf1 OS=Homo sapiens GN=C6orf1 PE=2 SV=2

MYRRKSGWTGCAITCSPCTAMTQLRNCMRLSRSCSLTWETPRWYMAGR VATSTSGCHCWM  
SRRDLTPLPHPSEPGVLDCLGPCHLLPLSPGSPCWVLGLHFSLHPPSAASASHALTITS  
LPPGLLPFVGVELTAHPQALMGRGFPSGMAAGRHL CFL

>sp|Q9HD87|CF050\_HUMAN Putative uncharacterized protein C6orf50 OS=Homo sapiens  
GN=C6orf50 PE=5 SV=1

MANTQLDHLHYTTEFTRNDLLICKKFNLMLMDEDIISLLAIFIKMCLWLWKQFLKRGSK

CSETSELLEKVKLQLAFTAYKYVDICFPEQMAYSRYIRWYIH

>sp|Q5T6M2|CF122\_HUMAN Putative uncharacterized protein encoded by LINC00242 OS=Homo sapiens GN=LINC00242 PE=5 SV=1

MMPRHLLPHSGITSLRRVPRRRLPSRRREDFRRCLFLSFVSTDKDGDPTGQASPAVPVPH  
FTTWGSLIPIDSQRNKERTFRFTWMDGPPHGGGLTRFSGRGSASLTAPPGRCFTRERHPVP  
RQRKCRRQHSTGRKPHCGTRSAAPRNPKSIHKRSFSAKSLKNKTRNESPPVSALVSRTKT  
QPGQLHFCCQPSSSQAPASRRAKGR

>sp|Q8IYR0|CF206\_HUMAN Cilia- and flagella-associated protein 206 OS=Homo sapiens GN=CFAP206 PE=1 SV=2

MPPTQAESVIRSIIREIGQEECAAHGEIVSETLIAFMVKAVVLDPSNGFNMDRTLKMSDVQ  
NLVKLCMTRLDDTKNPSLDTIKMQVYFDMNYTNRVEFLEEHHRVLESRLGSVTREITDNR  
ACAKEELESYLRKIIISYVLLRSLGSPDTIKTVREVTAALQSVFPQAEFGTFLTLKKDK  
ERQKELTMIVTGIRLFNRDCGKGEGIDDLPAVLHVAIPATMQHIDYQLETARSQVYRY  
TAILEKAANDPLMAELQPYMLKEALYNIRQYEVFLQIILSDIITGAQEVEMMTKQLGAH  
LEQLKMTIKSKIAVPTSQVFPFIALSTLWTSLQDETIVGVLSNLFTHIQPFLGAHELY  
FPERVMQCHLNGATVKTDCRMKEHMDRVNVADFRKLEWLFPETTANFDKLLIQYRGFC  
AYTFAATDGLLLPGNPAIGILKYKEKYTFNSKDAAYSFAENPEHYIDIVREKAKKNTL  
IQLLELHQQFETFIPIYSQMRDADKHYIKPITKESSTQTNTHILPPTIVRSYEWNEWELR  
RKAIKLANLRQKVTHSVQTDLSHLRRENCQVYPPKDTSTQSMREDSTGVPRPQIYLAGL  
RGGKSEITDEVKVNLRDDET

>sp|A6NFT4|CFA73\_HUMAN Cilia- and flagella-associated protein 73 OS=Homo sapiens GN=CFAP73 PE=2 SV=3

MAVPWEEYFRLALQEKLSTKLPEQAEDHVPVLRLLLEKRQELVDADQALQAQKEVFRKT  
AALKQRWEQLEQKERELKGSFIRFDKFLQDSEARRNRALRAAEERHQAGRREVEALRLW  
TQLQELRREHARLQRRLEPCARLLEQALELLPGFQEVPELVARFDGLAETQAALRLR  
EREQLAELEAARARLQQLRDAWPDEVLAQQQRRALQERLEAARERTLQWESKWIQNT  
AAEKTLLLGRSRMAVLNLFQLVCQHQQGPPTLDIEDTEGQLEHVKLFMQDLSAMLAGLGQ  
AEPAAPAS

>sp|P00751|CFAB\_HUMAN Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

MGSNLSPQLCLMPFILGLSGGVTTTPWSLARPQGSCSLEGVEIKGGSFRLQEGQALEY  
VCPSGFYPYPVQTRTCRSTGSWSTLTKDQDKTVRKAECRAIHCPRPHDFENGGEYWRSPY  
YNVSDEISFHCYDGYTLRGSANRTCQVNGRWSGQTAICDNGAGYCSNPGIPIGTRKVSQ  
YRLEDSTVYHCSRGLTLRGSQRRTCQEGGSWSGTEPSCQDSFMYDTPQEVAEFLSSLTE  
TIEGVDAEDGHGPGEQKQKRIVLDPGSMNIYLVLDGSDSIGASNFTGAKKCLVNLIEKV  
ASYGVKPRYGLVITYATYPKIWVKVSEADSSNADWVTKQLNEINYEDHKLKSGTNTKKALQ  
AVYSMMSWPDDVPPEGWNRTRHVIILMTDGLHNMGGDPITVIDEIRDLLYIGKDRKNPRE  
DYLDVYVFGVGPLVNQVNINALASKKDNEQHVFVKVDMENLEDVFYQMIDESQSLSLCGM  
VWEHRKGTDYHKQPWQAKISVIRPSKGHESCMGAVVSEYFVLTAHCFVDDKEHSIKVS  
VGGEKRDLEIEVVLPHNPNYINGKKEAGIPEFYDYDVALIKLKNKLYGQTIRPICLPCT  
EGTTRALRLPPTTTCQQQKEELPAQDIKALFVSEEEKLTRKEVYIKNGDKKGCERDA  
QYAPGYDKVKDISEVVTFRFLCTGGVSPYADPNTCRGDSGGPLIVHKRSRFIQVGVISWG  
VVDVCKNQKRQKQVPAHARDFHINLFQVLPWLKEKLQDEDLGFL

>sp|Q8N865|CG031\_HUMAN Uncharacterized protein C7orf31 OS=Homo sapiens GN=C7orf31 PE=1 SV=3

MEVIHGRPYCCRELEGADILSNTFYSNELHNPLQTVTRPTASEDRYQELRESLQQCRLPW  
GAEREYGGIIPISLPEDHRPKYEPPRVMGKGHQHYGFGGETWPRKLPVEQFYFLTQNKKS  
DVGNDSLIPKPNSTVGEICLPYPIEHPYHTHICRGAMFPTFTSPEDLYTGIKARTQQP  
FPPTVPTKAYDSTVLKTRGNPYRYELIDIPMDSKKKALTWPGQGVYYDFPRGVEKNKPVF  
YKPPKTFAPNTSLNSWDPICSAKEANIQRNLSHWTLSYTHDFTGLGPMDPLELDDYH  
EKMVAELTRKIGFDPEPQEKFHPVFKPPRPLEGRIARLIQNRSLAIVQQRPRSCPDCT  
PRVLCNFHTFVPSSKEMVALSDNIPAGVTHKNQDIEEKIIEEQSLLSTYELPSCYPTKDL  
TSIYDIKPFPKITDTKKTEDLYWRQQLTKTQPTPYCKPDHWHYENLKSPLRDQYNMCPD  
PVLSKPSVLQNKQDTEAFTLEHFLSKPEEELFLNMENNEETRPVLGWIPRAGVTKPQTN  
LLELKNFSFKTGAQKRFHKSILEDHKDLRDNEHSGMKHQFYGHNSYYFYN

>sp|Q8WVR3|CG043\_HUMAN Uncharacterized protein C7orf43 OS=Homo sapiens GN=C7orf43 PE=1  
SV=2

MESQCDYSMYFPAVPLPPRAELAGDPGRYRALPRRNHLYLGETVRFLLVLCRGGAGSGT  
GGGPGLSRGAWAELATALAALASVSAGGMPGGGAGDQDSEPPGGGDPGGGGLFRGCS  
PLLTHGPGPATSGGATLTPVEEPIVSTDEVIFPLTVSLDRLPPGTPKAKIVVTWVKREIE  
APEVRDQGYLRLLQTRSPGETFRGEQSAFKAQVSTLLTLLPPPVLRCRQFTVAGKHLTVL  
KVLNSSSQEEISIWDIRILPNFNASYLPVMPDGSVLLVDNVCHQSGEVSMGSFCRLPGTS  
GCFPCPLNALEHNFLFQLRGGEQPPPGAKEGLEVPLIAVVQWSTPKLPFTQSIYTHYRL  
PSVRLDRPCFVMTASCKSPVRTYERFTVTYTLNQLDFLAVRLVWTPEHAQAGQLCEE  
ERRAMQAALDSVVCHTPLNNGFSRKGSLTFSVAFQALRTGLFELSQHMKLKLQFTASV  
SHPPPEARPLSRKSSPSPAVRDLVERHQASLGRSQSFHQPSRSHLMRSGSVMERRAI  
TPPVASPVGRPLYLPDPKAVLSLDKIAKRECKVLVVEPVK

>sp|A4D0T2|CG066\_HUMAN Uncharacterized protein C7orf66 OS=Homo sapiens GN=C7orf66 PE=4  
SV=1

MMAVMTPSDGLSQLSVPHLTHQRLWSLSCLAMLFQAVLILSAPQMSCLLKCFYALDPLHP  
VMSEEFSAQYRHMMDQRYRTRIHEGYISQVKGAYLRIVHKKPISYAKSFPKEMGN

>sp|Q6ZVN7|CG076\_HUMAN Putative uncharacterized protein C7orf76 OS=Homo sapiens  
GN=C7orf76 PE=5 SV=2

MYCQDSNICAVFAVQGGKVGRKHGIKRGRRPSIRSPAQRARGPWIHESKHFAFAKQQINL  
EMPNSRATTELAWVCSSTSRRKKKWARSLLTSTAPLSPPPSLVHCEDCSCLPGCHSGDLYN  
LAPAERTC

>sp|Q6NT52|CGB2\_HUMAN Choriogonadotropin subunit beta variant 2 OS=Homo sapiens GN=CGB2  
PE=2 SV=4

MSTFPVLAEDIPLRERHVKGKRVDPHFRAPKMEMFQGLLLLLLLSMGGTWASKEPLRPRCR  
PINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLPALPQVVCNYRDVRFESIRLP  
GCPRGVNPVVSVAVALSCQCALCRRSTTDCGGPKDHPLTCDDPRFQDSSSSKAPPSLPS  
PSRLPGPSDTPILPQ

>sp|PODN86|CGB3\_HUMAN Choriogonadotropin subunit beta 3 OS=Homo sapiens GN=CGB3 PE=1 SV=1  
MEMFQGLLLLLLLSMGGTWASKEPLRPRCPINATLAVEKEGCPVCITVNTTICAGYCPT  
MTRVLQGVLPALPQVVCNYRDVRFESIRLPGCPRGVNPVVSVAVALSCQCALCRRSTTDC  
GGPKDHPLTCDDPRFQDSSSSKAPPSLPSPSRLPGPSDTPILPQ

>sp|Q96K31|CH076\_HUMAN Uncharacterized protein C8orf76 OS=Homo sapiens GN=C8orf76 PE=2  
SV=1

MDSGCWLFGGFEDSVFEERPERRSGPPASYCAKLCEPQWFYEETESSDDDEVLTLLKKFK

GDLAYRRQEYQKALQEYSSISEKLSSTNFAMKRDVQEGQARCLAHGRHMEALEIAANLE  
NKATNTDHLTTVLYLQLAICSSLQNEKTIFFCLQKLISLHPFNPWNWGKLAAYLNLGPA  
LSAALASSQKQHSFTSSDKTIKFFPHSGKDCLLCPETLPESSLFSVEANSSNSQKNEK  
ALTNIQNCMAEKRETVLIETQLKACASFIRTRLLLQFTQPQQTSAFALERNLRTQQEIEDK  
MKGFSFKEDTLLLIAEVMGEDIPEKIKDEVHPEVKCVGSVALTALVTVSSEEFEDKWFRK  
IKDHFCPFENQFHTEIQILA

>sp|Q3L8U1|CHD9\_HUMAN Chromodomain-helicase-DNA-binding protein 9 OS=Homo sapiens GN=CHD9  
PE=1 SV=2

MTDPMDDFFDDANLFGETLEGLSDDAFVQPGPVSLVDELNLGAEFEPLHIDSLNHVQGTP  
THQKMTDFEQLNQFDSIKFHHVNQSFQSPAEHVLSPHSQFNCSPIHQNPNGLFPDVSD  
GSPMWGHQTATTISNQNGSPFHQQGHSHSMHQKNSFVAHHDFAFQANEQQTQCTSLRSQ  
QNRNNLNPGQNSLSQSKNFMNVSGPHRVNVNHPQMNTASNSQQSISMQQFSQTSNPSAH  
FHKCSSHQEGNFGSPNMTSCSVSNSQQFSSHYSFSSNHISPNSSLQSSAVLASNHTNQ  
TLSDFTGSNSFSPHRGIKQESTQHILNPNTSLNSNNFQILHSSHPQGNYSNSKLSPVHMN  
FPDPVDSGTQMGHFNHVTNGFSSLEENLLHQVESQTEPFTGLDPEDLLQEGLLPHFDE  
STFGQDNSSHILDHDLDRQFTSHLVTRPSDMAQTQLQSARSWHSSFSNHQHLHDRNHL  
LQRQPPSSKSDSGSYTKLQNTQVRVMSEKKQRKKVESESKQEKANRIISEAIAKAKER  
GERNIPRVMPENFPTASVEGKEKKGRMKSKPKDKSKTKTCSKLEKTKIGKLIIT  
LGKKQKRKNESSEISDAEQMPQHTLKDQDSQKRRSNRQIKRKKYAEDIEGKQSEEEVK  
SMKIKKNSAPLPGEQLQLFVENPSEEDAAIVDKILSSRTVKKEISPGVMIDTEEFFVKY  
KNYSYLHCEWATEEQLLKDRIQQKIKRFLRQAQRAHFFADMEEEPFPNDYVEVDRVLE  
VSFCEDKDTGEPVIYYLVKCSLPYEDSTWELKEDVDLAKIEEFEQLQASRPDTRRLDRP  
PSNIWKKIDQSRDYKNGNQLREYQLEGLNWLLFNWYNRRNCILADEMGLGKTIQSITFLY  
EILLTGIRGPFLIIAPLSTIANWEREFRTWTDINVVVYHGSLISRQMIQQYEMYFRDSQG  
RIIRGAYRFQAIITTFEMILGGCGELNAIEWRCVIIDEAHLKKNCKLLEGLKLMNLEH  
KVLLTGTPLQNTVEELFSLHLFLEPLRFPSESTFMQEFGLKTEEQVQKLQAILKPMMLR  
RLKEDVEKKLAPKEETIEVELTNIQKKYYRAILEKNFSFLSKGAGQTNVNLVNTMMEL  
RKCCNHPYLIKGAEEKILGEFRDITYNPAASDFHLQAMIQSAGKLVLIDKLLPKMKAGGHK  
VLIFSQMVRCLDILEDYLIHKRYLYERIDGRVRGNLRQAIDRFSPKPSDRFVFLCTRA  
GGLGINLTAADTCIIFDSDWNPQNDLQAQARCHRIGQNKAVKVYRLVTRNSYEREMFDRA  
SLKLGLDKAVLQSMGRESNVGGIQQLSKKEIEDLLRGAYGAIMEEDEGSKFCEEDID  
QILLRRTKTITIESEGRGSTFAKASFVASGNRTDISLDDPNFWQKAKKAEIDIEAISGR  
NSLVIDTPRIRKQTRPFSATKDELAELSEAESEGDEKPKLRRPCDRSNGYGRTECFRVEK  
NLLVYGWGRWREILSHGRFKRQLNEHDVEICRALLAYCLVHYRGDEKIKGFIWDLITPT  
EDGQTRELQNLGLSAPVPRGRGKVKVKTQTSSFDIQAEWLRKYNPEQLLQDEGYKKHI  
KHHCNKVLLRVRMLYYLKQEVIGNECQKVFDGVDASDIDVWVPEPDHSEVPAEWWDFDAD  
KSLLIGVFKHGYEKYNTIRADPALCFLERVGKPDKAFAAEQRANDYMDGDVEDPEYKPA  
PAIFKDDIEDDVSSPGDLVIADGDGQLMEGDKVYWPQTQSALTTRLRLITAYQRTNKNRQ  
IQQIQPTFSVPTSVMQPIYEEATLNPKMAAKIERQQRWTRREEADFYRVVSTFGVVFDPD  
RGQFDWTKFRAMARLHKKTDDSLKYLYAFMSMCRRVCRLPSKEELVDPNIFIQPIITEER  
ASRTLYRIELLRKVREQALRHPQLFERLKLCHPNPDLPVWVECGPHDRDLLIGAAGHGV  
RTDYHILRDELSFMAAQRNYSQSKMAHSRTSTPLLQQYQVALSASPLTSLPRLLDAKGI  
ILEEMKVKSENKEEPQSSEEESSSVETRTLKSEPVS PKNGVLPQATGDQKSGGKCET  
DRRMVAARTEPLTPNPASKKPRVHKRGSESSSDSDSDSERSSCSSRSSSSSSSSSSSSSHSR

SGSSSSSSSSCSSASSSSSSSTSSSSSSSSSSSESDSDEEEAQKRESTTHMKAYDEESV  
ASLSTTQDETQDSFQMNGTPESAYILQGGYMLAASYWPKDRVMINRLDSICQTVLKGW  
PSARRSYDANTVASFYTTKLLDSPGAATEYSDPSVPTPPGAGVKEEHDQSTQMSKVKKHV  
REKEFTVVIKDEGGLKLTQKQGLAQKRPFDGEDGALGQQYLTRLRELQSASETSLVNF  
PKSIPVSGTSIQPTLGANGVILDNQPIVKKRRGRRKNVEGVDIFFFNRPKNHVSGLT  
SSQISTGINPALSYTPQGIPDTESPVPVINLKDGTLAGDDAPKRKDLEKWLKEHPGYV  
EDLGAFIPRMLHEGRPKQKRHRCRNPKNLDVNSLTGEERVQLINRRNARKVGGAFAPPL  
KDLCRFLKENSEYGVAPWGDVVKQSGFLPESMYERILTGPPVREEVSRRGRRPKSGIAK  
ATAAAAAASATSVSGNPLLANGLLPVDLTTLQALQQNLQNLQSLQVTAGLMGMPTGLPS  
GGEAKNMAAMFPMLLSGMAGLPNLLGMGGLLTKPTESGTEDKKGSDSKESEGKTERTESQ  
SSENGGENSVSSPSTSSAALNTAAANPLALNPLLLSNILYPGMLLTPGLNLHIPTLS  
QNTFDVQNKNSDLGSSKSVEVKEEDSRIKDQEDKGGTEPSPLNENSTDEGSEKADASSG  
SDSTSSSSSEDSDSSNED

>sp|043633|CHM2A\_HUMAN Charged multivesicular body protein 2a OS=Homo sapiens GN=CHMP2A  
PE=1 SV=1

MDLLFGRRKTPSELLRQNQRALNRMRELDRERQKLETQEKKIIADIKMAKQGQMDAVR  
IMAKDLVRTRYVRKFVLMRANIQAVSLKIQTLSNNSMAQAMKGVTKAMGTMNRQLKLP  
QIQKIMMEFERQAEIMDMKEEMMNDIIDDAMGDEDEEEESDAVVSQVLDELGLSLTDELS  
NLPSTGGSLSVAAGGKKAEEAASALADADADLEERLKNLRRD

>sp|Q9BY43|CHM4A\_HUMAN Charged multivesicular body protein 4a OS=Homo sapiens GN=CHMP4A  
PE=1 SV=3

MSGLGRLFGKGKKEKGPTPEEAIQKLKETEKILIKKQEFLEQKIQQELQTAKKYGTKNKR  
AALQALRRKKRFEQQLAQTDGTLSTLEFQREAIENATTNAEVLRTMELAAQSMKKAYQDM  
DIDKVDELMTDITEQQEVAQQISDAISRPMGFDDVDEDELLEEELEEQEELAQELLNV  
GDKEEPEPSVKLPSPSTHLPAGPAPKVDDEEALKQLAEWVS

>sp|Q9Y2V2|CHSP1\_HUMAN Calcium-regulated heat-stable protein 1 OS=Homo sapiens GN=CARHSP1  
PE=1 SV=2

MSSEPPPPPPQPTHQASVGLLDTPRSRERSPSPLRGNVVPSPLPTRRTRTFSATVRASQG  
PVYKGVCCKFCRSKGHGFITPADGGPDIFLHISDVEGEYVPVEGDEVYKMCSIPPKNEK  
LQAVEVVITHLAPGTHETWSGHVISS

>sp|043529|CHSTA\_HUMAN Carbohydrate sulfotransferase 10 OS=Homo sapiens GN=CHST10 PE=1  
SV=1

MHHQWLLLAACFWVIFMFVASKFITLTFKDPDVYSAKQEFLLTTMPEVRKLPEEKHIP  
EELKPTGKELPDSQLVQPLVYMERLELIRNVCRDDALKNLSHTPVSKFVLDRIFVCDKHK  
ILFCQTPKVGNTQWKKVLIVLNGAFSSIEEIPENVVHDHEKNGLPRLSSFSDAEIQRLK  
TYFKFFIVRDPFERLISAFKDKFVHNPRFEPWYRHEIAPGIIIRKYRRNRTETRGIQFEDF  
VRYLGDPNHRWLDLQFGDHIHWWTYVELCAPCEIMYSVIGHHETLEDDAPYILKEAGID  
HLVSYPTIPPGITVYNRTKVEHYFLGISKRDIRRLYARFEGDFKLFGYQKPDFLLN

>sp|Q9NPF2|CHSTB\_HUMAN Carbohydrate sulfotransferase 11 OS=Homo sapiens GN=CHST11 PE=1  
SV=1

MKPALLEVMRMNRCRMVLATCLGSFILVIFYFQSMHPVMRRNPFQVDICCRKGSRSPL  
QELYNPIQLELSNTAVLHQMRDQVTDTCRANSATSRKRRVLTNPDLKHLVDEDEHETIY  
CYVPKVACTNWKRLMMVLTGRGKYSDPMEIPANEAHVSANLKTNLQYSIPEINHLKSYM  
KFLFVREPFERLVSAYRNKFTQKYNISFHKRYGTKIIRKQRKNATQEALRKGDVVKFEF

VAYLIDPHTQREEPFNEHWQTVVSLCHPCHIHVDLVGKYETLEEDSNVVLQLAGVGSYLK  
FPTYAKSTRTTDEMTEFFQNISSEHQTQLYEVYKLDFLMFNYSVPSYLKLE

>sp|Q8N4C0|C1062\_HUMAN Putative uncharacterized protein C9orf62 OS=Homo sapiens  
GN=C9orf62 PE=2 SV=1

MGLSPGQTSVSFLWPLLEVRDHNTGRGLVPATVLTGSPETLLELRQAFLGSRQARHGHD  
AAPSSGQQGCSVDRTAGRPVLGWRLRNSLTGQEGRQHLHLSGIRTSRKAKEYKPVFFGAT  
EISVLMVAESLREPPPPQGWFLSSLFLKIF

>sp|Q5T8R8|C1066\_HUMAN Uncharacterized protein C9orf66 OS=Homo sapiens GN=C9orf66 PE=2  
SV=1

MRHSVARPTRLPRRLSPFWDPATCKNLEGGAGEVVRGRDPRRLRTSRSTEILGEDLAGPS  
AGAAARPAAPPQPREGAPGLRRAPPTRMDSSGLGPCSEAPLHTSAGLSGRNLR AAGG  
VLPVDLERERAALCARQSGHGPPAVRWLLGSRGAESGGLARRRVAAEHAQPSANLVCRSA  
LETSAFPSPKPKSPRGRVRARSSDGRLRHPAWRAGSGGRGGRGPSAELASRYWGRRRALP  
GAADLRPKGARADDRRLRAGRKLHLPEAARLPGNVGKSGEPHKAGEVGNHPRDS

>sp|Q5VXU9|C1084\_HUMAN Uncharacterized protein C9orf84 OS=Homo sapiens GN=C9orf84 PE=2  
SV=1

MTDTSVLDQWKASFFVEDFLEKKTITRMVTQINCEFEVVPSSNPDSQIEVEEVSLYTHM  
DYNEVFTPVSACLEKCSALQNQNQDLFIDDKGILFVSSRKHLPTLPTLLSRLKLFLVKDPL  
LDFKGQIFTEANFSRECFSLQETLEAFVKEDFCMDKVNFCQEKLEDTICLNEPSSFLIEY  
EFLIPPSLKPEIDIPSLSELKELNVPVEIINYVDEKEKLFERDLTNKHGIEDIGDIKFS  
STEILTIQSQSEPEECSKPGELEMPLTPLFLTCQHSSVNSLRTELQTFPLSPVCKINLLT  
AEESANEYYMMWQLERCRSPLNPFLTVPRIQEPHSQYSVTDLKKIFSVKEESLVINLEK  
AEWWKQAGLNLKMMETLEHLNTYLCHDNLSSNDTKIEIFLPTKVLQLESCLEHKSHSSPI  
ALIDEKSTNAHLSLPQKSPSLAKEVPDLCFSDDYFSDKGAAKEEKPKNQEPVNRIIQKK  
ENNDHFELDCTGPSIKSPSSSIKKASFEHGKKQENDL DLLSDFIMLRNKYKTCTSKTEV  
TNSDEKHDKEACSLTQEESEPIVHINKTLEEINQERGTDSVIEIQASDSQCQAFCLLEAA  
ASPILKNLVSLCTLPTANWKFATVIFDQTRFLLKEQEKVVSDAVRQGTIDEREMTFKHAA  
LLHLLVTIRDVLLTCSLDALGYLSKAKDIYNSILGPYLGDIVRQLEIVQFIRGKKPETN  
YKIQELQCQILSWMQSQQIKVLIIRMDSDGEKHFLIKILNKIEGLTLTVLHSNERKDF  
LESEGVLRGTSSCVVHNQYIGADFPWSNFSFVVEYNYVEDSCWTKHCKELNIPYMAFKV  
ILPDTVLERSTLLDRFGGFLEIQIPYVFFASEGLLNTPDILQLLESNYNISLVERGCSE  
SLKLFGSSECYVVVTIDEHTAILQDLEELNIEKASDNIIMRLMALSLQYRYCWIILYTK  
ETLNSEYLLTEKTLHHLALIYAALVSFGLNSEELDVKLIAPGVEATALIIRQIADHSLM  
TSKRDPEHWLDKSWLKVSPSEEMYLLDFPCINPLVAQLMLNKGPSLHWILLATLCQLQE  
LLPEVPEKVLKHFCSTSLFKIGSSSITKSPQISSPQENRNQISTLSSQSSASDLSVIQ  
EHNEYQYLGLGETVQEDKTTILNDNSSIMELKEISSFLPPVTSYNQTSYWKDSSCKSNI  
GQNTPFILINIESRRPAYNSFLNHSDESDFSLGLTQMNCETIKSPTDTQKRVSVVPRFI  
NSQKRRTHEAKGFINKDVSDPIFSLEGTQSPLHWNFKKNIWEQENHPFNLQYGAQQTACN  
KLYSQKGNLFTDQKCLSDSEGLTCESSKDETFWRELPSVPSLDLFRASDSNANQKEFN  
SLFYQQRAGSLGQKRHHESFNSGDKESLTGFMCSQLPQFKKRRLAYEKVPGRVDGQTR  
LRFF

>sp|B1AMM8|C1107\_HUMAN Putative uncharacterized protein encoded by LINC00587 OS=Homo  
sapiens GN=LINC00587 PE=5 SV=1

MQFADWLHPSGWTIEILNAYGMGDRKRTNSMSKEAFTPEQLHLEKELGEMRLRPTVLHSQ

TDHQGFRPIPMQ

>sp|Q5T035|CI129\_HUMAN Putative uncharacterized protein C9orf129 OS=Homo sapiens  
GN=C9orf129 PE=4 SV=1

MPGMVPPHVPPQMLNIPQTSLQAKPVAPQVPSPGGAPGQGPYPYSLSEAPLTLDTSGKN  
LTEQNSYSNIPHEGKHTPLYERSLPINPAQSGSPNHVDSAYFPGSSTSSSSDNDEGSGGA  
TKYTIYWGFRATDHHVQGRDSQARGTAAHWHGGHVCSPNVFWRISHGPAQQLTFTPTEQAA  
PPVCPAPASRRLSAPG

>sp|Q5VTT2|CI135\_HUMAN Uncharacterized protein C9orf135 OS=Homo sapiens GN=C9orf135 PE=1  
SV=1

MDSLDRSCQDWCDRKQHWLEIGPPDLVERKGSLLRSHHKYKSPVLVYSWHRDREAFPK  
GYDIEGPEKVKKLCNSTYRRLGTDESPIWTSETHEKLSQMCLNTEWVEMKSKALLNEETV  
SSGI IERVTLGPATGFGAVFPRHPPDWSKMCALTTYSEDYVPPYDYQPHAYPCQDDYSIV  
HRKCRSQFTDLNGSKRFGINTWHDESGIYANSQDVKQKLYPLTSGPIVPI

>sp|075339|CILP1\_HUMAN Cartilage intermediate layer protein 1 OS=Homo sapiens GN=CILP  
PE=1 SV=4

MVGTKAWVFSFLVLEVTSVLGRQTMLTQSVRRVQPGKKNPSIFAKPADTLESPGEWTTWF  
NIDYPGGKGDYERLDAIRFYQDRVCARPLRLEARTTDWTPAGSTGQVVHGSPREGFWCL  
NREQRPQGNCNYSYTVRFLCPPGSLRRDTERIWSWSPWSKCSAACGQTGVQTRTRICLAE  
MVSLCSEASEEGQHCMGQDCTACDLTCPMGQVNADCDACMCQDFMLHGAVSLPGGAPASG  
AAIYLLTKTPKLLTQTDSDGRFRIPGLCPDGKSILKITVKFAPIVLTMPKTSLKAATIK  
AEFVRAETPYMVMNPETKARRAGQSVSLCCKATGKPRPDKYFWYHNDTLLDPSLYKHESK  
LVLRLQHQHAGEYFCKAQSDAGAVKSKVAQLIVIASDETPCNPVPESYLIRLPHDCFQN  
ATNSFYDVGRCPVKTCAGQQDNGIRCRDAVQCCGISKTEEREIQCSGYTLPTKVAKEC  
SCQRCTETRISIVGRVSAADNGEPMRFGHVYMGNSRVSMGTGYKGTFTLHVPQDTERLVL  
FVDRLQKFVNNTKVLFPNKKGSVAFHEIKMLRRKKPITLEAMETNIIPLGEVVGEDPMAE  
LEIPSRSFYRQNGEPIYGKVKASVTFLDPRNISTATAAQTDLNFINDEGDTFPLRTYGMF  
SVDFRDEVTSEPLNAGKVKVHLDSTQVKMPEHISTVKLWSLNPDTGLWEEEGDFKFENQR  
RNKREDRTFLVGNLEIRERRFLNDVPESRRCFVKVRAYSERFLPSEQIQGVVISVINL  
EPRTGFLSNPRAWGRFDSVITGPNACVPAFCDDQSPDAYSAYVLASLAGEELQAVESSP  
KFNPNAIGVPQPYLNKLNRRTDHEDPRVKKTAFAQISMAKPRPNSAEESNGPIYAFENLR  
ACEEAPPSAAHFRFYQIEGDRYDNTVPFNEDDPMSTEDYLAWWPKPMEFRACYIKVKI  
VGPLEVNVRSRNMGGTHRQTVGKLYGIRDVSTRDRDQPNVSAACLEFKCSGMLYDQDRV  
DRTLKVIPQGSCRRASVNPMLEHYLVNHLPLAVNNDTSEYTMLAPLDPLGHNYGIYTVT  
DQDPRTAKEIALGRCFDGTSDGSSRIMKSNVGVALTFNCVERQVGRQSAFQYLQSTPAQS  
PAAGTVQGRVPSRRQQRASRGGRQGGVVASLRFPRVAQQPLIN

>sp|Q8N655|CJ012\_HUMAN Uncharacterized protein C10orf12 OS=Homo sapiens GN=C10orf12 PE=1  
SV=1

MQSSALVESLITVKMAAENSEEGNTCIIPQRNLFKALSEEAWNSGFMGNSSRTADKENTL  
QCPKTPLRQDLEANEQDARPKQENHLHSLGRNKVGYHLHPSDKGQFDHSDGWLPGPMP  
AVHKAANGHSRTKMISTSIKTARKSKRASGLRINDYDNQCDVVYISQPI TECHFENQKSI  
LSSRKTARKSTRGYFFNGDCCELPVRTLARNLHSQEKASCSALASEAVFTPKQTLTIPA  
PRHTVDVQLPREDNPEEPSKEITSHEEGGDVSPRKEPQEPEVCPTKIKPNLSSSPRSEE  
TTASSLVWPLPAHLPEEDLPEGGSTVSAPTASGMSSPEHNQPPVALLDTEEMSVPQDCHL  
LPSTESFSGGVSEDVISRPHSPPEIVSREESPCSENQSSPMGLEPPMSLGKAEDNQSIS



AEVESGDTQELNVDPLLKESSTFTDENPSETEESEAAGGIGKLEGEDGVKCLSEKDTYD  
TSIDSLEENLDKKGKGFPEASDRCLRSQSDSSADRCLRNQSSDSSSACLEIKVPKN  
PSAKRSKKEGHPGGTTPKGLLPDSFHTETLEDTEKPSVNERPSEKDAEQEGEGGGIITRQ  
TLKNMLDKEVKELRGEIFPSRDPITTAGQPLPGERLEIYVQSKMDEKNAHIPSESIACKR  
DPEQAKEEPGHIPTQHVEEAVNEVDNENTQQKDDSDAPCSSLGLSSSGSGDAARAPKSV  
PRPKRLTSSTYNLRHAHSLGSLDASKVTSEKEAAQVNPIMPKEGASESGDPLDEDDVDT  
VVDEQPKFMEWCAEEENQELIANFNAQYMKVQKGWIQLEKEGQPTPRARNKSDKLKEIWK  
SKKRSRKRCSLESQKCSQVQMLFMTNFKLSNVCKWFLETTETRSIVVKLNTRLPGDV  
PPVKHPLQKYAPSSLYPSSLQAERLKKHLKKFPGATPAKNNWKMQLWAKFRENPDQVEP  
EDGSDVSPGPNSEDSIEEVKEDRNSHPPANLPTPASTRILRKYSNIRGKLRAQQRLIKNE  
KMECPDALAVESKPSRKSVCLNPLMSPKLALQVDADGFPVKPKSTEGMKGRKGKQVSEIL  
PKAEVQSKRKRTEGSSPPDSKNKGPTVKASKEKHADGATKTPAAKRAARDRSSQPPKKT  
SLKENVKIPKKSAGKSCPPSRKEKENTNKRPSQSIASETLTKPAKQKGAGESSSRPQKA  
TNRKQSSGKTRARPSTKTPESSAAQRKRKLAKLDCSHSKRRRLDAK

>sp|Q8IYJ2|CJ067\_HUMAN Uncharacterized protein C10orf67, mitochondrial OS=Homo sapiens  
GN=C10orf67 PE=2 SV=3

MMALVRDRRAHYVMSIVIRVWHCFSSSLRGTFGTRWEAMKAKATELRVCCARRKREAREF  
KPPQMRGSTRNLNISDDLKIGFFSTDHATQTDSEILSVKELSSSTQKLAQMMKSLQVDFG  
FLKQLLQLKFEDRLKEESLSLFTILHDRILEIEKHYYQNEDEKMRKSFNQQLADAIKVIK  
MYQQFFVEVEEENVSQDASTVKTNILLRKLKEKEEVIKELKEELDQYKDFGFHKMESFAK  
ETSSPSKNLEKENLEYKVENERLLQIISELEEEIQLNKENSGLDELISMKEMAEKDHK  
TIQKLMDSRDRLREELHYEKSQVQDVINKQKEDKEMRKKYGSLSVKVARSAKGREASLSP  
WPKSPPTTALRPHSATMSVSSAGAQAQKAKMPKALKEDQAVVEDKHGLESQIEALKANLE  
NEKKKVERFRKEADRLNKSWEKRFFILRNSFHVLNEMFTRHTLFRQFAVLADTSFNYIK  
VKPLLVSRTTMTAISSSSHCTSSIDGKHVDVSDQAALQLSPKGKLSSESPKEESLEEPS  
MRQSSPAETVD

>sp|Q5T292|CJ128\_HUMAN Putative uncharacterized protein C10orf128 OS=Homo sapiens  
GN=C10orf128 PE=3 SV=1

MNLGVSMRLRILFLLDVGAQVLAATGKTPGAEIFKYALIGTAVGVAISAGFLALKICMIR  
RHLFDDSSDLKSTPGGLSDTIPLKKRAPRRNHNFSKRDAQVIEL

>sp|Q8N5U0|CK042\_HUMAN Uncharacterized protein C11orf42 OS=Homo sapiens GN=C11orf42 PE=2  
SV=2

MLVGTPNLLTLDEADATWTLIKDKVIEEHFGPNAVAVPFLSDAACDYDLLGVLVKQSRPAH  
TRLALPGRQGRRAKLPVGPLPSLLEQAGSEGAFAHCTREYSPNGRAERAYEETRMLDGQP  
CKIRLHMGDLRKKVAFLLLPPGQVSLQQTLPWLRSTHSIYVIYQVFSCSWLQLGLTSTAR  
EPQLRLRLSLPVAFSLKFSQSGVLGPQKPLTKDPLPHGANWVRPNLSIMPPLAPTS  
APADTTEAADVPPVPAPPTPPPQEGPEDKPTRFSYKGRNPFWRGPQILSENWLFSPRSP  
PPGAQGGGPRDPDGHSMSLPLLQGLSSEFDSDD

>sp|Q8TAV5|CK045\_HUMAN Putative uncharacterized protein C11orf45 OS=Homo sapiens  
GN=C11orf45 PE=2 SV=1

MLTRLVLSAHLSTTSPPWTHAAISWELDNVLMPSPRIWPQVTPTGRSASVRSEGNTSSL  
WNFSAGQDVHAIIVTRTCESVLSSAVYTHGCGCVRSATNITCQSSGQQRQAARQEEENSIC  
KAHDSREGRLGYPLSAHQPGSGGPN

>sp|Q6NUN7|CK063\_HUMAN Uncharacterized protein C11orf63 OS=Homo sapiens GN=C11orf63 PE=2 SV=1

MSKRKLIPKLSIQSPVLHTNLNVQSTHPPLKKEDLHRISKDSLESSESILTQEIMCHSEF  
DDRIRGNMPEPDSLDEEESPRWGSLEHEEEEEASGKAAQMAREQNHHTWDQGANNRQQPIE  
DKYSDLRYPNWKSKKEEGQLLSVEALPESTDSSLENLPLAPLYPSQETSMELSGGKGEQ  
KESPQSAASLLGSEFLSPNYEHGARRSKPFSELSDSLEEKSSSLSPYVKSSSSHNEVFL  
PGSRGPRRRKSKQHFEKNKLTGLPTPKTDSYQLHNKKRGESHPEQISYPVRVTDKTS  
IQNAKEMENAAIDPEDKWHQRAQQLKNYQEHWSQYESTKSSNVPRGQPSDMVNDHQPSRR  
PAKLKIRKQCKHQGLKSSSTTEEVASQGNQNNPPRQQQNQNKPLDTSTKPESIVIMHAS  
NNDVQASRALRSHNLKETSNTFAPPKQAFDKVLSKNSTGCDSGLNVNKERGHKQDEEKRF  
SYQQLHTLSMDLNNLNELSKRHVLLSQKGSQFVYHINTHGSTKNKKQLKQPYTETKYRN  
LEMLWKFHSSSDSQTVRASPDSWLTQIMEQHQQALVQLTDVQPSEGALSSVTLPPIILSRV  
ESESQSSERSQRNQVKISRSNSEGYLFQLEKGGKKHKKRSSSKNTKLKGYQKRDVKLGGL  
GPDFESIRDKTQKLIQQKEYAKQVKEYNMKTLISLKPQTEKTQKKSAPRQKALEYAKT  
IPKPKPSNLTHQASKEQKNPTYAGKEESLPEISLLEILQNRHEREKQAVAAFKVLHIV

>sp|C9JXX5|CK094\_HUMAN Uncharacterized protein C11orf94 OS=Homo sapiens GN=C11orf94 PE=3 SV=1

MVLAMLGALHPRAGLSLFLHLILAVALLRSQLRSQSVPEAFSAPLELSQPLSGLVDDY  
GILPKHPRPRGRPLLSRAQQRKRDGPDLAEEYYDAHL

>sp|Q7Z7L8|CK096\_HUMAN Uncharacterized protein C11orf96 OS=Homo sapiens GN=C11orf96 PE=1 SV=3

MGNKQPQKVTVPTGTALQGVVLIVSTLHQPGGWICGKDPCCSLRPLSNSVQNALACKSKQ  
DYQAGILFKTRAFISRDCGSDAAEDSASKGETYTLTLEHKGAGEGLRPRGQPGWCRLGD  
PRRDSARPVAAIEGPCPGAARASRVLRGRGFSRNPGRGLPSGAGWRGAGGAGEGAVTFP  
ERRGDVRRKGAGRARFKWHSLSSELRAVWAAAGYISREPGRRGADGDSSGGERLGARRNS  
APRAPCPPTGPPARPPSRGAPARAREGRRHPAADLPPPGEPAAAASRGAPAQRPPSESP  
GAPPPGPADAGGAMAAPGELMGICSSYQAVMPHFVCLADEFPQVPRPAKLPGRGRRLRR  
PRQSRFKTQPVTDFEIQEVEEEGVSPMEEEEKAKKSFLQSLQREQLSSC  
KLRNSLDSSDSAL

>sp|P33552|CKS2\_HUMAN Cyclin-dependent kinases regulatory subunit 2 OS=Homo sapiens GN=CKS2 PE=1 SV=1

MAHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRLGVQQSLGWVHYMIH  
EPEPHILLFRRPLPKDQKQ

>sp|Q96LM1|CLO37\_HUMAN Putative uncharacterized protein encoded by LINC00615 OS=Homo sapiens GN=LINC00615 PE=5 SV=1

MKQKQEVMFQSRGRSLYIQMSSVYSAKLGPGGICGQKQKPSFFFFKAQSQDARPLAPA  
ACISKIAKAGRELPRGRLPGQKTPTLAGRHVPLKIEKEAIVYYVAVMSDWDTSCLQRTIK  
PLSCPHLGLTPS

>sp|Q5U649|CLO60\_HUMAN Uncharacterized protein C12orf60 OS=Homo sapiens GN=C12orf60 PE=2 SV=2

MSSESEKDKERLIQAAKMFFFHVQDLASVINTLTELFSRSMNTQILLMAVKNNSYIKDFF  
EQMLKIFKEMQSVVDARHDKIQKESLCSKVAMAMCSVVQKSTNVEELHQSAKEVFKSAHT  
PVIIISVLNSSLGSLSSLSHLMKFPIMNLQLSDFYTETKEQSDVTTSERTRSPPGSS  
KTTMIDTLKKLQDVLKTEDSKNPTKSAADLLEQIVKAMGPILILELQKAIKTMEMNISVFK

KASDK

>sp|Q32Q52|CL074\_HUMAN Uncharacterized protein Cl2orf74 OS=Homo sapiens GN=Cl2orf74 PE=2 SV=1

MEKTESFCPEVPPQDCGASPRPSLRSLPKNQGSLLQFDRQAPGRISTSPTLRRLRTRGCG  
TRQDAWQVTTWGSWGAPVGFPCYLSKSLPGSPKDSSHLLSPLRLHSRLTSEPERALNAAD  
SLEPQTRPTDKYLPPELQPVNEGSLHQASLRQQEGHFLPSPTLRHPSPQGEELHPSRCVC  
IYFLRCYDIC

>sp|Q8WTT0|CLC4C\_HUMAN C-type lectin domain family 4 member C OS=Homo sapiens GN=CLEC4C PE=1 SV=1

MVPEEPPQDREKGLWWFQLKVWSMAVVSILLSSVCFTVSSVPHNFMYSKTVKRLSKLRE  
YQQYHPSLTCVMEGKDIEDWSCPTPWTSFQSSCYFISTGMQSWTKSQKNC SVMGADLVV  
INTREEQDFIIQNLKRNSSYFLGLSDPGGRRHWQWVDQTPYNENVTFWHSGEPNLDERC  
AIIINFRSSEEWGNDIHCHVPQKSICKMKKIYI

>sp|Q8N1N0|CLC4F\_HUMAN C-type lectin domain family 4 member F OS=Homo sapiens GN=CLEC4F PE=2 SV=2

MDGEAVRFCTDNQCVSLHPQEVD SVMAPAPKIPRLVQATPAFMAVTLVFSLVTLFVVV  
QQQTRPVPKPVQAVILGDNITGHLPFEPNNHHHFGREAEMRELIQTFKGMENSSAWVVE  
IQMLKCRVDNVNSQLQVLGDHLGNTNADIQMVKGVLKDATTLSLQTQMLRSSLEGTNAEI  
QRLKEDLEKADALTFQTLNFKSSLENTSIELHVLSRGLENANSEIQMLNASLETANTQA  
QLANSSLKNANAEIYVLRGHLDSVNDLRTQNQVLRNSLEGANAEIQGLKENLQNTNALNS  
QTQAFIKSSFDNTSAEIQFLRGHLERAGDEIHVLKRDLMVTAQTQKANGRLDQTDQTIQ  
VFKSEMENVNTLNAQIQVLNGHMKNASREIQTLKQGMKNASALTSQTQMLDSNLQKASAE  
IQRLRGDLENTKALTMEIQQEQSRLKTLHVVITSQEQLQRTQSQLLQMV LQGWKFNGGSL  
YYFSSVKKSWHEAEQFCVSQGAHLASVASKEEQAFLEFTSKVYYWIGLTDRGTEGSRW  
TDGTPFNAAQNKAPGSKGSCPLRKYIIVNSGMGACSFIDTPPCPWILSN

>sp|Q6UXB4|CLC4G\_HUMAN C-type lectin domain family 4 member G OS=Homo sapiens GN=CLEC4G PE=1 SV=1

MDTTRYSKWGSSEEVPGGPWGRVHWSRRPLFLALAVLTTVLWAVILSILLSKASTER  
AALLDGHDLRLTNASKQTAALGALKEEVGDCHSCSGTQAQLQTTRAE LGEAQAKLMEQE  
SALREL RERV TQGLAEAGRGREDVRTELFRAL EAVRLQNN SCEPCPTSWLSFEGSCYFFS  
VPKTTWAAAQDHCADASAH LVI VGG LDEQGF LTRNTRGRGYWGLRAVRHLGKVQGYQWV  
DGVSLSFSHWNQGE PNDAWGREN CVMLHTGLWNDAPCDSEKDGWICEKRHNC

>sp|P09496|CLCA\_HUMAN Clathrin light chain A OS=Homo sapiens GN=CLTA PE=1 SV=1

MAELDPFGAPAGAPGGPALNGVAGAGEEDPAAAF LAQQESEIAGIENDEAFAILDGGAP  
GPQPHGEPPGGPDAVDGVMNGEYYQESNGPTDSYAAISQVDRLQSEPE SIRKWREEQMER  
LEALDANSRKQEA EWKEA I KELEEYARQDEQLQKTKANNRVADEAFYKQPFADVIGYV  
TNINHPCYSLEQA AEEAFVND IDESSPGTEW ERVARLCDFNPKSSKQAKDVSRMRSVLIS  
LKQAPLVH

>sp|Q96S66|CLCC1\_HUMAN Chloride channel CLIC-like protein 1 OS=Homo sapiens GN=CLCC1 PE=1 SV=1

MLCSLLLCECLLLVAGYAHDDDWIDPTDMLNYDAASGTMRSQAKYGISGEKDVSPDLSC  
ADEISECYHKLDSLTYKIDECEKKKREDYESQSNPVFRRYLNKILIEAGKLG LPDENKGD  
MHYDAEII LKRETLLEIQKFLNGEDWKPGALDDALSDILINFKFHDFETWKWRFEDSFGV  
DPYNVLMVLLCLLCIVVLVATELW TYVRWY TQLRRVLIISFLFSLGWNW MYLYKLAF AQH

QAEVAKMEPLNNVCAKKMDWTGSIWEWFRSSWTYKDDPCQKYELLVNPIWLVPPTKAL  
AVTFTTFVTEPLKHIGKGTGEFIKALMKEIPALLHLPVLIIMALAILSFCYGAGKSVHVL  
RHIGGPESEPPQALRPDRRRQEEIDYRPDGGAGDADFHYRGQMGPTEQGPYAKTYEGRR  
EILRERDVLRFQTKNSPEVLRAFDVPAEAREHPTVVP SHKSPVLDTKPKETGGILGE  
GTPKESSTESSQSAKPVSGQDTSGNTEGSPA AEKAQLKSEAAGSPDQGSTYSPARGVAGP  
RGQDPVSSPCG

>sp|P51795|CLCN5\_HUMAN H(+)/Cl(-) exchange transporter 5 OS=Homo sapiens GN=CLCN5 PE=1  
SV=1

MDFLEEPPIPGVGTYYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIHVSDAFSGWLL  
MLLIGLLSGSLAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVTFEERDKCPEWN  
SWSQLIISTDEGAFAIYVNYFMVVLWALLFAFLAVSLVKVFAPYACGSGIPEIKTILSGF  
IIRGYLGKWTLVIKTITLVAVSSGLSLGKEGPLVHVACCCGNILCHCFNKYRKNEAKRR  
EVL SAAAAAGVSVAFGAPIGGVLFSL EEVSYFPLKTLWRSFFAALVAAFTLRSINPFGN  
SRLVLFYVEFHTPWHLFELVPFILLGIFGGLWGALFIRTNIAWCRKRKTTQLGKYPVIEV  
LVVTAITAILAFPNEYTRMSTSELISELFNDCGLLDSSKLCDYENRFNTSKGGELPDRPA  
GVGVYSAMWQLALTILKIVITIFTFGMKIPSGLFIPSMAGAIAGRLLGVGMEQLAYYH  
QEWTVFNSWCSQGADCITPGLYAMVGAAACLGGVTRMTVSLVIMFELTGGLEYIVPLMA  
AAMTSKWVADALGREGIYDAHIRLNGYPFLEAKEEFAHKTLAMDVMKPRRNDPLLTVLTQ  
DSMTVEDVETIISETTYSGFPPVVSRESQRLVG FVLRRDLIISIENARKKQDGVVSTSI  
YFTEHSPPLPPYTPPTLKLRLNLDLSPFTVDTLTPMEIVVDIFRKLGLRQCLVTHNGRLL  
GIITK KDV LKHIAQMANQDPDSILFN

>sp|075508|CLD11\_HUMAN Claudin-11 OS=Homo sapiens GN=CLDN11 PE=2 SV=2

MVATCLQVVGFVTSFVGWIGVIVTTSTNDWVVTGCGYTIPTCRKLDLGSKGLWADCVMAT  
GLYHCKPLVDILILPGYVQACRALMIAASVLGLPAILLLLTVLPCIRMGQEPGVAKYRRA  
QLAGVLLILLALCALVATIWFVCAHRETTIVSFGYSLYAGWIGAVLCLVGCVILCCAG  
DAQAFGENRFYYTAGSSSPTHAKSAHV

>sp|Q08708|CLM6\_HUMAN CMRF35-like molecule 6 OS=Homo sapiens GN=CD300C PE=2 SV=1

MTARAWASWRSSALLLLVPGYFPLSHPMTVAGPVGGSLSVQCRYEKEHRTL NKFWRCP  
QILRCDKIVETKGSAGKRNGRVSIRDSPANLSFTVTLENLTEEDAGTYWCGVDTPWLRDF  
HDPIVEVEVSVPAGTTTASSPQSSMGTSGPPTKLPVHTWPSVTRKDSPEPSPHPGSLFS  
NVRFLLLVLELPLLLSMLGAVLWVNRPQRSSRSRQNWPKGENQ

>sp|H3BNL1|CC084\_HUMAN Uncharacterized protein C3orf84 OS=Homo sapiens GN=C3orf84 PE=2  
SV=1

MQSALVGSWHNNGFYGHYSQFKSESAREYHLAAKPQPPAVFLQRCQEPAQRHFFSKHDN  
RTSFDKGPYCLLQGIGRRKDLERLWQRHTFLRWAPCEIELRQQGPLESSYQADFRPGPGL  
SGLPQHLLIH FVQVQPSHTRTTYQQNFCCPSQGGHYGSYKVGPPQAPVTDVLPDLPGIPRPK  
LLQHYLHAGVSECLNWSRALNKDS

>sp|Q8IW40|CC103\_HUMAN Coiled-coil domain-containing protein 103 OS=Homo sapiens  
GN=CCDC103 PE=1 SV=1

MERNDIINFKALEKELQAALTADEKYKRENAAKLRAVEQRVASYEEFRGIVLASHLKPLE  
RKDKMGGKRTVPWNCHTIQGRTFQDVATEISPEKAPLQPETSADFYRDWRRHLPSPGERY  
QALLQLGGPRLGCLFQTDVGFGLLGELLVALADHVG PADRAAVLGILCSLASTGRFTLNL  
SLLSRAERESCKGLFQKLQAMGNPRSVKEGLSWEEQGLEEQSGGLQEEERLLQELLELYQ  
VD

>sp|Q9H0I3|CC113\_HUMAN Coiled-coil domain-containing protein 113 OS=Homo sapiens  
GN=CCDC113 PE=1 SV=1

MTDDESESVLSDSHEGSELELPVIQLCGLVEELSYVNSALKTETEMFEKYYAKLEPRDQR  
PPRLSEIKISAADYAQFRGRRRSKSRGTGMDRGVGLTADQKLELVQKEVADMKDDL RHTRA  
NAERDLQHHEAIIIEAEIRWSEVSREVHEFEKDILKAISKKKGSILATQKVMKYIEDMNR  
RRDNMKEKLRLKNVSLKVQRKKMLLQLRQKEEVSEALHDVDFQQLKIENAQFLETIEARN  
QELTQLKLSSGNTLQVLNAYKSKLHKAMEIYLNLDKEILLRKELLEKIEKETLQVEEDRA  
KAEAVNKRLRKQLAEFRAPQVMYVREKILNADLEKSIRMWERKVEIAEMSLKGHRKAWN  
RMKITNEQLQADYLAGK

>sp|Q96CT7|CC124\_HUMAN Coiled-coil domain-containing protein 124 OS=Homo sapiens  
GN=CCDC124 PE=1 SV=1

MPKKFQGENTKSAARARRAEAKAAADAKKQKELEDAYWKDDDKHVMRKEQRKEEKEKRR  
LDQLERKKETQRLLEEEDSKLKGKAPRVATSSKVTRAQIEDTLRRDHQLREAPDTAEKA  
KSHLEVPLEENVNRRVLEEGSVEARTIEDAIAVLSVAEEAADRHPERRMRAAFTAFEEAQ  
LPRLKQENPNMRLSQLKQLLKKEWLRSPDNPMNQRAVPFNAPK

>sp|Q6PK04|CC137\_HUMAN Coiled-coil domain-containing protein 137 OS=Homo sapiens  
GN=CCDC137 PE=1 SV=1

MAGAGRGAASRVQAGPGSPRRARGRQQVPLGKQRPAPWPGLRSKEKKKVNCCKPNQDE  
QEIPFRLREIMRSRQEMKNPISNKKRKKAAQVTFRKTLEKEAKGEEDIAVPKFKQRKGE  
SDGAYIHRMQEAAQHVLFLSKNQAIRQPEVQAAPKEKSEKQKAKKAFQKRRLDKVRKKKE  
EKAADRLEQELLRDYTVKFGEVVLQPPELTARPQRSVSKDQPGRRSMLRMLLSPGGVSP  
LTASLARQRIVEEERERAVQAYRALKQRQQQLHGERPHLTSRKKPEPQL

>sp|Q8IYE0|CC146\_HUMAN Coiled-coil domain-containing protein 146 OS=Homo sapiens  
GN=CCDC146 PE=1 SV=2

MEDSSTDTEKEEEEEKDEKDQEPYIAIVPTINIQDERFVDLSETPAFIFLHELHAMGKLP  
GTRMAALKAKYTLTHDAVMSTQESEVQLLQNAKRFTEQIQQQQFHLQQADNFPEAFSTEV  
SKMREQLLKYQNEYNVAVKEREHFNQYRLNSLKEEKIIIVKEFEKITKPGEMEKKMKILRE  
STEELRKEIMQKLEIKNLREDLASKQKQLLKEQKELEELLGHQVVLKDEVAHHQTIPVQ  
IGKEIEKITRKKVEMEKKIVLEQEVKTLNDSLKKVENKVSIVDEKENVIKEVEGKRAL  
LEIKEREHNQLVKLELARENEATSLTERGILDNLNLSLIDKQNYHDELSRKQREKERD  
FRNLRMKELLKVSWDALRQTALHQRLLEMEAIPKDDSTLSERRRELHKEVEVAKRNL  
AQQKIIISEMESKLVEQQLAEENKLKEQENMKELVVNLLRMTQIKIDEKEQKSKDFLKAQ  
QKYTNIVKEMKAKDLEIRIHKKKKCEIYRRLREFAKLYDTIRNERNKFVNLLHKAHQKVN  
EIKERHKMSLNELEILNSAVSQERKLQNSMLKHANNVTIRESMQNDVRKIVSKLQEMKE  
KKEAQLNNDRLANTITMIEEEMVQLRKRYEKAVQHRNESGVQLIEREEECIFYEKINI  
QEKMKLNGEIEIHLLEEKIQFLKMKIAEKQRQICVTQKLLPAKRSLDADLAVLIQFSQC  
TDRIKDLEKQFVKPDGENRARFLPGKDLTEKEMIQKLDKLELQLAKKEEKLEKDFIYEQ  
VSRLTDRLCSKTQGCKQDTLLAKKMNGYQRRRIKNATEKMMALVAELSMKQALTIELQKE  
VREKEDFIFTCSRIEKGPLNKEIEKEWLKVLDEEMHALAIAEKSQEFLEADNRQLPN  
GVYTAEQRPNAYIPEADATLPLPKPYGALAPFKPSEPGANMRHIRKPVIPVEI

>sp|POC7I6|CC159\_HUMAN Coiled-coil domain-containing protein 159 OS=Homo sapiens  
GN=CCDC159 PE=2 SV=1

MLLPASDPLLAGLPDPDYSVSCLYSPSPSSMCLPANMKCDKYWGSSSDKALERTAHWS  
RTPEPETLGCPASGDTVRTADCRPGWGSPPHEAAPSPPDLQKQCCNDQDILKRHHNV

AKKPLETSSSKVKAKTIVMIPDSQKLLRCELESLSQLQAQTKAFEFLNHSVTMLEKESC  
LQQIKIQQLEEVLSPTGRQGEKEEHKWGMEQGRQELYGALTQGLQGLEKTLRDSEEMQRA  
RTTRCLQLLAQEIRDSKKFLWEELELVREEVTFIYQKLQAQDEISENLVNIQKMQKTQV  
KCRKILTKMKQQGHETAACPETEEIPQGASGCWKDDLQKELSDIWSAVHVLQNSIDSLTL  
CSGACPKASSLRGHKGHCLSPLPSWSDSDCDQDLSQPPFSKSGRSFPPA

>sp|Q0VFZ6|CC173\_HUMAN Coiled-coil domain-containing protein 173 OS=Homo sapiens  
GN=CCDC173 PE=2 SV=2

MDTSSEMLVRFGRRCGRAKESTEIRNSEEDQVLYLPLLPSKVDLQQVTIIPHDEWKRIQD  
SLDRLTREAACLAERKAKKEMHLRSQEVVKHWTNTYAGMKEQKLEAKKKRDEEIEAERQ  
ILDLEEEIYKQGKRKKA IENAKQYQFYQTERVKNFHSGLLSRVMKERDAQIEFRKSKIK  
SDKKWEEQLKLNIEKAFKEEQEKA EKRHRERVALAKDHLKQIKEHEEEEEERRKKYEEKDA  
EEIKRQNALYEIEMRKLEKKREEMHESRRRFL EHMQDKHIIKAVEQQQQEEDEKMRKF  
IKAKKRLLIQMGKEKEAETHRLMEKRRERIHNFLSELLKEKLDNEDMIIARDIAEAEAEWE  
KREREKDEKNKALKTIAEYRAIVMKNKEEEERQRKIEAKEQLLAVMKADQIFWEHEKEK  
KCKADKEHQEVQDAHIQQMAKNKFNAKQAKQAELDYCRLTEALVAEKEKEFQDYAREVIE  
LESETTNKYIYPLVKAVQEGPGGGRGPVFDVRGGLRPSYQANDVTGVQLPFYNSQGPKN  
FQKSKRRLGFTW

>sp|H3BU77|CC179\_HUMAN Coiled-coil domain-containing protein 179 OS=Homo sapiens  
GN=CCDC179 PE=4 SV=1

MCLYCWDI EPSQVNPEGPRQHHPSEVTERQLANKRIQNMQHLKKEKRRLNKRFSRPSPIP  
EPGLLWSS

>sp|H7C350|CC188\_HUMAN Coiled-coil domain-containing protein 188 OS=Homo sapiens  
GN=CCDC188 PE=3 SV=2

MEGLKTLGPCGHPHPQCPPTPASSSHGGGLDQPCQGFGVWPCLGPISAHSVQSQRPPFV  
PGAGGSGPTVEGEAPGLFLSSQEQRARDTEGPRQGDLEAGLGWGWPLHPGSNQGAPRQGG  
SIGSGTRPCPCPPLSREGGALASPRVALSQLQCGLLGSAEQSFLQLEQENHSLKRQNQEL  
REQLGALLGPGGQFLPLCPEHSSCTALAWPPDPAGTQPLGNRAPLQLLRRELCQGQEA FV  
QQSQNELQQIRLCFERKKMVITEVWDNVAEMHMALNNQATGLLNLKKDIRGVLDQMEDIQ  
LEILRERAQCRTRARKEKQMASMSKGRPKLGSSKGLAGQLWLLTLRLLL GALLVWTAAYV  
YVYNPTPFEGLV PPLSRATVWKL RALLDPFLRLKVDGFLPF

>sp|Q8NCU4|CC191\_HUMAN Coiled-coil domain-containing protein 191 OS=Homo sapiens  
GN=CCDC191 PE=2 SV=1

MLLAPQGRSFSKKRMGLNRWKRFRTRKPSPKPTFGPDSVEHWIKRVEKASEFAVSNAFFTR  
NSDLPRSPWGQITDLKTSEQIEDHDEIYAEAQELVNDWLDTKLKQELASEEEGDAKNTVS  
SVTIMPEANGHLKYDKFDDLCGYLEEEESTTVQKFIDHLLHKNVDSAMMEDLGRKENQ  
DKKQQKDPRLTMEMRHKQVKENRLRREKELEYQRIEKTLLKSAFLEAQCLVQEEKRKAL  
EAKKEEEEIQREMVKLREI IERRRTVKA AWKIEKKRQEENSQNSSEKVMFQSTHILPDE  
EKMVKERKRKLKEVLIQTFKENQQCQKRYFAAWHKLILDHRIKLKGAGTLDWQIQLKVL  
RAWRDYTRFQKLERETQALENDLREENRKQQLATEYNRKQVLRHCFTEWQHWHGAELLKR  
ELALTKEETRKKMDALLQAASLGKLSANGLSGISLPEEATAMVGPPVKNGQETAVPPLWE  
KPPLGSSGCMLSPPLGRTTGTGNLQGS LQNVSLSAPGNKQHKTLGAEPSQQPGSNETLRTT  
SQKAEPCLCGHFHNRHV FQQQLIEKQKKKLQEQQKTILELKKNLQLAEAQWAAEHALAVT  
EAQSHLLSKPREEEPRTCQMLVNSPVASPGTEGRSDSRNSLSGLRRKPKQLMTPHPILKA  
MEERAIQRAECRRILAEKKKKQEEKLAQLKAQEEERQKREAEKEAQLERKREEKRLKK

MKELEKQKRIKRNNQLEAIAKEHYERVLLRKKGLEPWKRLRMQSKQNIQVAEEHYSLFLQ  
RKYMLTWFQRSQESLARKMAQADQFYSQILLKRVIQSWLQYVIDLQEEVRKFCVHFLQKK  
IFRAWFNMVREVKIDSQGKHEIAAEHSDRRILWITLRTWKKFVKFMKEERVKEERRQQLR  
RKVVEILPDFQVPGRYHELYQQSDTWSLSKTSLVNE

>sp|Q9NV96|CC50A\_HUMAN Cell cycle control protein 50A OS=Homo sapiens GN=TMEM30A PE=1  
SV=1

MAMNYNAKDEVDGGPPCAPGGTAKTRPDNTAFKQQRLPAWQPILTAGTVLPPIFFIIGLI  
FIPIGIGIFVTSNNIREIEIDYTGTEPSSPCNKCLSPDVTPCFCTINFLEKSFEGNVFM  
YYGLSNFYQNHRRYVKSRRDSSQLNGDSSALLNPSKECEPYRRNEDKPIAPCGAIANSMFN  
DTLELFLIGNDSYPIPIALKKKGIAWWTDKNVKFRNPPGGDNLEERFKGTTKPVNWLKPV  
YMLDSDPDNNGFINEDFIVWMRTAALPTFRKLYRLIERKSDLHPTLPAGRYSLNVTYNYP  
VHYFDGRKRMILSTISWMGGKNPFLGIAYIAVGSISFLLGVLLVINHKYRNSNTADIT  
I

>sp|A0ZSE6|CC50C\_HUMAN Cell cycle control protein 50C OS=Homo sapiens GN=TMEM30C PE=2  
SV=2

MEERAQHCLSRLLDNSALKQQELPIHRLYFTARRVLFVFFATGIFCLCMGIILILSARST  
QEIEINYTRICANCAKLRENASNFDKECTCSIPFYLSGKMMVGEIQETRLTH

>sp|Q96LY2|CC74B\_HUMAN Coiled-coil domain-containing protein 74B OS=Homo sapiens  
GN=CCDC74B PE=2 SV=1

MSGAGVAAGTRPPSSPTPGSRRRRQRPSVGVSQSLRPQSPQLRQSDPQKRNLDEKSLQFL  
QQQHSEMLAKLHEEIEHLKRENKDLRYKLIMNQTSSQKKDGPNGHLSRASAPLGARWVCI  
NGVWVEPGGSPARLKEGSSRTHRPGGKHGRLAGGSADTVRSPADSLSTSSFQSVKSISN  
SGKARPQPGSFNKQDSKADVPQKADLEEEPLHNSKLDKVPGVQGGARKEKAEASNAGAA  
CMGNSQHQRQMGAAAHPPMILPLPLRKPTTLRQCEVLIRELWNTNLLQTQELQHLKSLL  
EGSQRPQAVPEEASFPRDQEATHFPKVSTKSLSKKCLLSPPVAERAILPALKQTPKNNF  
AERQKRLQAMQKRRLHRSVL

>sp|O60826|CCD22\_HUMAN Coiled-coil domain-containing protein 22 OS=Homo sapiens GN=CCDC22  
PE=1 SV=1

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVEAVVRCLRVINPAVGSGLSPLLPLA  
MSARFRLAMSLAQACMDLGYPLELGYQNFLYPSEPDRLDLLFLAERLPTDASEDADQPA  
GDSAILLRAIGSQIRDQLALPWVPPHLRTPKLQHLQGSALQKPFHASRLVVPESLSSRGEP  
REFQASPLLLPVPTQVPQVGRVASLLEHHALQLCQQTGRDRPGDEDWVHRTSRLPPQED  
TRAQRQLKQQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT  
FHLEPQAQATQVSDVPATSRPEQVTWAAQEQELESLEQLEGVNRSIEEVEADMKTLGV  
SFVQAESECRHSLSTAEREQALRLKSRAVELLPDGTANLAKLQLVVENSAQRVIHLAGQ  
WEKHRVPLLAEYRHLRKLQDCRELESSRRLAEIQELHQSVRAAAEEARRKEEVYKQLMSE  
LETLPDRVSRLAYTQRILEIVGNIRKQKEETKILSDTKELQKEINSLSGKLDRTFAVTD  
ELVFKDAKKDDAVRKAYKYLAALHENSQLIQTIEDTGTIMREVRDLEEQIETELGKCTL  
SNLEKIREDYRALRQENAGLLGRVREA

>sp|Q96HJ3|CCD34\_HUMAN Coiled-coil domain-containing protein 34 OS=Homo sapiens GN=CCDC34  
PE=1 SV=2

MWAAGRWGPTFPSSYAGFSADCRPRSRPSSDSCSVPMTGARGQGLEVVRSPPPLPLSCS  
NSTRSLLSPLGHQSFQFDEDDGDGEDEEDVDDEEDVDEDAHDSEAKVASLRGMELQGCAS  
TQVESENNQEEQKQVRLPESRLTPWEVWFIGKEKEERDRLQLKALEELNQLEKRKEMEE

REKRKIIAEEKHKEWVQKKNEQKRKEREQKINKEMEEKAAKELEKEYLQEKAKEKYQEWL  
KKKNAAEECERKKKEKEKEKQQQAEIQEKKEIAEKKFQEWLENAKHKPRPAAKSYGYANGK  
LTGFYSGNSYPEPAFYNPWPPIHMPPPKEAKDLSGRKSkrpvisqphkssslviHKAR  
SNLCLGTLCRIQR

>sp|Q96M95|CCD42\_HUMAN Coiled-coil domain-containing protein 42A OS=Homo sapiens  
GN=CCDC42 PE=1 SV=2

MSLGI MEEEDLA EYFRLQYGERLLQMLQKLPNVEGASESPSIW LLEKKKETEIMHQT MVQ  
KKKMFQRRMETLNL RWEELGVKEAQLKAHIKSEQFIQENDQKRIRAMKKANKERELKCQ  
HMQELTKRKQEMVALRLEHQRLSAKLKDYIFNKYLEKVVENSEFEEIHEVIARYKTLVS  
MRHDLMQSAQEGQE KIERAKARLARYMEEKDDEILQQNNELARLQMRFRDRASNVIWES  
RWAHIQNTAAKKTLL LGTIKMATLNLFIQIVSKHLKEVTEVALEDTHKQLDMIQQFIQDRS  
DIWAEVKKKEQQRVRI

>sp|Q2TAC2|CCD57\_HUMAN Coiled-coil domain-containing protein 57 OS=Homo sapiens GN=CCDC57  
PE=1 SV=2

MLPLGSEPALNELL RKEEEWRALQAHRTQLQEAA LQDTRSQLEEAQGKLRCLQEDFVYN  
LQVLEERDLELERYDAAFAQAREWEEARRAEVSELKIEAAKL RQALAREARKVEELQQQQ  
QLAFQEHRLELERVHSDKNGEIDHHREQYENLKWTLERKLEELD GELALQRQELLLFES  
KMRKREHEFR LQADNMSNTALSRELKV KLLHKELEALKEAGAKAAESLQRAEATNAELER  
KLQSRAGELQDLEAMS RARVKDLEDKLHSVQLTRKKEEETF KRKHEELDRLAREKDAVLV  
AVKGAHVEQLQELQTRVLELQAH CETLEAQLRRAEWRQADTAKEKDAAIDQLREDASTVK  
SAWDAQIAQLSKEMVSRDLQIQTLQEEEVKLKAQVARSQQDIERYKQQLSLAVERERSLE  
RDQVQLGLDWQRRCD DIERDQIQKSEALIQGLSMAKSQVAAKLQETEQALQE QEVVLKAV  
TLERDQAVQALRMHGLPRPGAQMLLRQH EEEISKDFPSSEIQRLREQNTSLRNAIAQMRK  
EMEALSHQIPPIQTAAESTDANQPDPEAGGDAATPDYVLAL EAEIRTLKHKFKTLEKHL  
EDVLDPLKMSSPHAESQPSVRTSTETTGGSAQAGQAGGSVQAGQAGGSVQAGPVSSGLAL  
RKLGDVRVQLLNLLVTRLRQKVLREPLEPAALQRELPREVDQVHLEVLRLRKQV AELGKHL  
RIAQHGGAEPSGRKQPPASDAVALGREQDAKSAEDEAPSRHLGKHQPRSAQVGSRLDALQ  
GPKTQHSIHTVTCKSPRKQEDRSPKPPQAPQHPEEHGRQSHSSSSFASGTLQDMWRLLDL  
GSSPSGVTSGDSTPELPAPPAADRRPVKMQAGIATPGMKTA AQAQAKTTGASRSHPAKA  
KGCQRPPKIRNYNIMD

>sp|Q9H6F5|CCD86\_HUMAN Coiled-coil domain-containing protein 86 OS=Homo sapiens GN=CCDC86  
PE=1 SV=1

MDTPLRRSRRLGGLRPESPE SLTSVSRTRRALVEFESNPEETREPGSPPSVQRAGLGSPE  
RPPKTSFGSPRLQQGAGLESPQGQPEPGAASPRQQLHLESPQRQPEYSPESPRCQPKP  
SEEAPKCSQDQGV LASELAQNKEELTPGAPQHQLPPVPGSPEPYPGQAPGPEPSQPLLE  
LTPRAPGSPRGQHEPSKPPPAGETVTGGFGAKKRKGSSSQAPASKKLNKEELPVIPKGKP  
KSGRVWKDRSKKRFSQMLQDKPLRTSWQRKMKERQERKLAKDFARHLEEEKERRRQEKKQ  
RRAENLKRRLENERKAEVVQVIRNPAKLKRAKKKQLRSIEKRD TLALLQKQPPQQA AKI

>sp|Q7Z6B0|CCD91\_HUMAN Coiled-coil domain-containing protein 91 OS=Homo sapiens GN=CCDC91  
PE=1 SV=2

MDDDDFGGFEEAETFDGGSGETQT TSPAIPWAAFPVSGVHLS PSSPEIVLDRDHSSSIG  
CLSSDAI ISSPENTHAANSIVSQ TIPKAIQQSTH THLDISLFLGLTDEKSNGTIALVD  
DSEDPGANVSNIQ LKQKISSLEIKLVSEEEKQRIKQDVESLMEKHNVLEKGFLKEKEQE  
AISFQDRYKELQEKHKQELED MRKAGHEALSII VDEYKALLQSSVKQQVEAIEKQYISAI



EKQAHKCEELLNAQHQRLLLEMLDTEKELLKEKIKEALIQSQEQKEILEKCLEEERQRNK  
EALVSAAKLEKEAVKDAVLKVVEEERKNLEKAHAEERELWKTEHAKDQEKVSQEIQKAIQ  
EQRKISQETVKAIIIEEQKRSEKAVEEAVKRTRDELIEYIKEQKRLDQVIRQRSLSLEL  
FLSCAQKQLSALIATEPVDIE

>sp|Q96F63|CCD97\_HUMAN Coiled-coil domain-containing protein 97 OS=Homo sapiens GN=CCDC97  
PE=1 SV=1

MEAVATATAAKEPDKGCIEPGPHWGELSRTVPVPSKPQDKVEAAEATPVALDSDTSGAEN  
AAVSAMLHAVAASRLPVCSQQQGEPDLTEHEKVAILAQLYHEKPLVFLERFRTGLREEHL  
ACFGHVRGDHRADFYCAEVARQGTARPTLRLRLNRRYAALRELIQGGYFSDEQMRFR  
APLLYEQYIGQYLQEELSARTPTHQPPKPGSPGRPACPLSNLLQSYEERELQQRLQ  
QEEEEACLEEEEEEDSDEEDQRSKGDSEAWVPDSEERLILREEFTSRMHQRFLDGKGDG  
FDYSTVDDNPDFDNLDIVARDEEERYFDEEPEADAPSPELDGD

>sp|O95273|CCDB1\_HUMAN Cyclin-D1-binding protein 1 OS=Homo sapiens GN=CCNDBP1 PE=1 SV=2

MASATAPAAAVPTLASPLEQLRLAEELRLLPRVRVGEAQETTEEFNREMFWRRLNEAA  
VTVSREATTLTIVFSQLPLSPQETQKFCEQVHAAIKAFIAVYYLLPKDQGITLRLKLVRG  
ATLDIVDGMAQLMEVLSVTPTQSPENNDLISYNSVWVACQMPQIPRDNKAAALLMLTKN  
VDFVKDAHEEMEQAVEECDPYSGLLNDTEENNSDNHNHEDDVLGFPSNQDLYWSEDDQEL  
IIPCLALVRASKACLKKIRMLVAENGKDKVAQLDDIVDISDEISPSVDDLALSIYPPMC  
HLTVRINSAKLVSVLKALEITKASHVTPQPEDSWIPLLINAIDHCMNRIKELTQSELEL

>sp|Q8TC90|CCER1\_HUMAN Coiled-coil domain-containing glutamate-rich protein 1 OS=Homo  
sapiens GN=CCER1 PE=1 SV=1

MTQTLDTREDPLNLGGGGGGCGCGWAHSASLSSWSSCHRRRPGAPAYNRPHRYSKTEY  
GPPRKQPKQHQHGPWFQPPVCSNWGCWGGPWRPPPPGFWKFPQVQVFRVYGLHPLCFC  
CCSCWSGSWNPGWVKPPGRKKRWGRRGRGLRHHPHSYPRSPADVSTLPRPVKLYEWRE  
PGMRAPPNTTQFIMNQIYEDMRQQEKVERQQEALRAQKATVSGEASPARSSGNDAPPGGS  
KETWGLQETLYGFVQNPSLAFSPNPEENQSLAPLLVEEEEEKKNDEEEYDQEVCDAKEA  
SEEEEEVEDEEEVEDEEEVEEAEYVEEGEELEEELEEEEEEVLEENEQRGEFHLPL  
LEMPLSIFVEAEKRENFISCTFLNPEQIIPKVPQESLFMAQDFNC

>sp|P30281|CCND3\_HUMAN G1/S-specific cyclin-D3 OS=Homo sapiens GN=CCND3 PE=1 SV=2

MELLCCGTRHAPRAGPDPRLLDQQRVLQSLRLLEERYVPRASYFQCVQREIKPHMRKML  
AYWMLEVCCEEQRCEEEVFPLAMNYLDRLSCVPTRKAQLQLLGAVCMLLASKLRETTPLT  
IEKLCIYTDHAVSPRQLRDWEVLVLGKLKWDLA AVIAHDFLAFILHRLSLPRDRQALVKK  
HAQTFALCATDYTFAMYPSPMIATGSIGAAVQGLGACMSGDELTELLAGITGTEVDCL  
RACQEQIEAALRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL

>sp|P24864|CCNE1\_HUMAN G1/S-specific cyclin-E1 OS=Homo sapiens GN=CCNE1 PE=1 SV=2

MPRERRERDAKERDTMKEDGGAEFSAARSRKANVTVFLQDPDEEMAKIDRTARDQCGSQ  
PWDNNAVCADPCSLIPTDKEDDDRVYPNSTCKPRIIAPSRGSPPLVLSWANREEVWKIM  
LNKEKTYLRDQHFLQHPQLLPKMRAILLDWLMEVCEVYKLHRETIFYLAQDFFDRYMATQ  
ENVVKTLQLLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR  
LSPLTIVSWLVNVMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA  
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNI  
QTHRDSLDLLDKARAKKAMLEQNRSPLPSGLLTPPQSGKKQSSGPEMA

>sp|P41002|CCNF\_HUMAN Cyclin-F OS=Homo sapiens GN=CCNF PE=1 SV=2

MGSGGVVHCRAKCFCYPTKRRIRRRPRNLTILSLPEDVLFHILKWLSVEDILAVRAVHS

QLKDLVDNHASVWACASFQELWPSPGNLKLFERAAEKGNFEEAVKLGIAYLNEGLSVSD  
EARAENVGLKASRFFSLAERLNVGAAPFIWLFIRPPWSVSGSCKAVVHESLRAECQLQR  
THKASILHCLGRVLSLFEDEEKQQQAHLFEAAHQGCLTSSYLLWESDRRTDVS DPGRC  
LHSFRKL RDYAAKGCWEAQLSLAKACANANQLGLEVRASSEIVCQLFQASQAVSKQVFS  
VQKGLNDTMRYILIDWLVEVATMKDFTSLCLHLTVECVDRYLRRRLVPRYRLQLLGIACM  
VICTRFISKEILTIREAVWLTDNITYKYEDLVRMMGEIVSALEGKIRVPTVVVDYKEVLLTL  
VPVELRTQHLCSFLCELSLLHTSLSAYAPARLAAAALLARLTHGQTQPWTTQLWDLTGF  
SYEDLIPCVL SLHKKCFHDDAPKDYRQVSLTAVKQRFEDKRYGEISQEEVLSYSQLCAAL  
GVTQSDPDPTFLSTGEIHAFLSSPSGRRTKRKRENSLQEDRGSFVTTPTAELSSQEETL  
LGSFLDWSLDCCSGYEGDQESEGEKEGDVTAPSGILDVTVVYLNPEQHCCQESSDEEACP  
EDKGPQDPQALALDTQIPATPGPKPLVRTSREP GKDVTTSGYSSVSTASPTSSVDGGLGA  
LPQPTSVLSLSDSHTQPCHHQARKSCLQCRPPSPPESSVPQQQVKRINLCIHSEEDMN  
LGLVRL

>sp|Q16589|CCNG2\_HUMAN Cyclin-G2 OS=Homo sapiens GN=CCNG2 PE=2 SV=1

MKDLGAEHLAGHEGVQLLGLLVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKV  
EDLRSLANFFGSC TETFLAVNILDRLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIP  
STHDVIRISQCKCTASDIKRMEKIISEKLHYELEATTALNFLHLYHTIILCHTSERKEIL  
SLDKLEAQLKACNCRLIFS KAKPSVLALCLLNLEVETLKSVELLEILLVKKH SKINDTE  
FFYWRELVS KCLAEYSSPECKPDLKKLVIVSRRTAQN LHNSYYSVPELPTIPEGGCFD  
ESESESDCEDMSCGEESLSSSPSDQECTFFFNFKVAQTLCFPS

>sp|Q8IV13|CCNJL\_HUMAN Cyclin-J-like protein OS=Homo sapiens GN=CCNJL PE=2 SV=3

MMDEPWWEGRVASDVHCTLREKELKLPTFRAHSPLLKSRRFFVDILTLLSSHCQLCPAAR  
HLAVYLLDHFMDRYNVTTSKQLYTVAVSCLLLANGVSLLSPRLKCSGMISAHCNLHLP GS  
SNSPASAPHPPTPPQVAETTGKFEDREDHVPKLEQINSTRILSSQNFTLT KKELLSTEL  
LLLEAFSWNLCLPTAHFLDYLLASVSQKDDHCHTWPPTCPRKTK ECLKEYAHYFLEV T  
LQDHIFYKFQPSVAAACVGASRICLQLSPYWTRDLQRISYSLEHLSTCIEILLVVDN  
VLKDAVAVKSQALAMVPGTPPTPTQVLFQPPAYPALGQPATTLAQFQTPVQDLCLAYRDS  
LQAHRSGSLLSGTSGSSLHTPYQLQLPLDMCPVPVPASLSMHMAIAAEPRHCLATTYGSS  
YFSGSHMFPTGCFDR

>sp|O00311|CDC7\_HUMAN Cell division cycle 7-related protein kinase OS=Homo sapiens GN=CDC7  
PE=1 SV=1

MEASLGIQMDPMAFSPQRDRFQAEGSLKKNEQNFKL AGVKKDIEKLYEAVPQLSNVFKI  
EDKIGEGTFSSVYLATAQLQVGPEEKIALKHLIPTSHPIRIAAELQCLTVAGGQDNVMGV  
KYCFRKN DHVVIAMPYLEHESFLDILNSLSFQEVREYMLNLFKALKRIHQFGIVHRDVKP  
SNFLYNRRLLK KYALVDFGLAQGTHDTKIELLK FVQSEAQQERC SQNKSHIITGNKIPLSG  
PVPKELDQQSTTKASVKRPYTNAQIQIKQKGDKEGSVGLSVQRSVFGERNFNIHSSISH  
ESPAVKLMKQSKTVDVLSRKLATKKKAISTKVMNSAVMRKTASSCPASLTCDCYATDKVC  
SICLSRRQQVAPRAGTPGFRAPEVLT KCPNQTTAIDMWSAGVIFLSLLSGRYPFYKASDD  
LTALAQIMTIRGSRETIQAAKTFGKSILCSKEVPAQDLRKL CERLRGMDSSTPKLTS DIQ  
GHASHQPAISEKTDHKASCLVQTPPGQYSGNSFKKGDSNSCEHCFDEYNTNLEGWNEVPD  
EAYDLLDKLLDLNPASRITAEALLHPFFKMSL

>sp|Q5VXM1|CDCP2\_HUMAN CUB domain-containing protein 2 OS=Homo sapiens GN=CDCP2 PE=2 SV=1

MLAEWGACLLLAVALLGPLQAQAMEGVKCGGVL SAPSGNFSSPNFRLYPYNTECSWLI  
VVAEGSSVLLTFHAFDLEYHDTCSFDFLEIYNGASPDKGNLLGRFCGKVP PPPFTSSWHV

MSVIFHSDKHVASHGFSAGYQKDVCGGVLTLGSGVLTSPEYPNNYPNSMECHWVIRAAGP  
AHVKLVFVDFQVEGNEECTYDYVAVLGGPGPTRGHHYCGSTRPPTLVSLGHQLQVVFVFKSD  
FNIGGRGFKAYYFSGECQEVYAMMRGNFSSPQYPSSYPNNIRCHWTIRLPPGYQVKVFFL  
DLDLLEPNSTKTCDFDHLAAFDGASEEAPLLGNWCGHLLPPPVTSSHNQLLLLLLHTDRS  
TTRRGFSVAYIGGQLGCGSGSTEGEREALQPQSLQSPSSIPPVCPAPPMNGLLQLLLHLWL  
HPCPLSGPLRLDGTAPACFHYCRASFPSF

>sp|014735|CDIPT\_HUMAN CDP-diacylglycerol--inositol 3-phosphatidyltransferase OS=Homo sapiens GN=CDIPT PE=1 SV=1

MPDENIFLFVFNILIGYARIVFAIISFYFMPCCPLTASSFYLLSGLLDAFDGHAARALNQG  
TRFGAMLDMLTDRCSMCLLVNLALLYPGATLFFQISMSLDVASHWLHLHSSVVRGSESH  
KMIDLSGNPVLRIYYTSRPAFTLCAGNELFYCLLYLFHFSEGPLVGSVGLFRMGLWVTA  
PIALLKSLISVIHLITAARNMAALDAADRKKK

>sp|Q2M2E5|CE064\_HUMAN Uncharacterized protein C5orf64 OS=Homo sapiens GN=C5orf64 PE=2 SV=2

MLAPLFLCCLRNLFKRKLISFQPPQLGRTNMHYSKLPRTAIETEFKQNVGPPPKDLTAEVY  
FPSIKRSRSHLPAVFYNYQYFKHPKCVGEYGPKNGAERQIEERKVLPTTMMFSMLADCVLKS  
TPIPIILGVAM

>sp|Q5TB80|CE162\_HUMAN Centrosomal protein of 162 kDa OS=Homo sapiens GN=CEP162 PE=1 SV=2

MANCSQEELDEEFQFMKELSDDSFENS DKTARQSKKEMKKKDTVPWWITEDDFKDDGLL  
GTNVSYLKTKKTSQPVMIEIEESAEEKIQFLKSSGTSLLSTDSLETNELVVSELNHSLSLV  
GLDTLEEQEEKEQFFARLEKGLTSSIDYSRLNKELDSNDSTHFALHSNQAANAELTDDEH  
ENESKHEELAENYSDDFEDEYVGAPLTTKDEEMPSKENSSEKISVPKQEEETGMLANV  
VLLDSLDSVAEVLNDEQDKITPKPRCLPEMTENEMTGTVSYGQSSSDVEALHQAYCHIA  
HSLGDEDKQKIESNTVEDIKSSVKGHPQENEENSKNISTMESDLPTVEELMKPIRIDSFG  
ISGFDLQPVSSSEKVAERKETEFSSSLPKMNPNILSQDSQHVNLFFDKNDENVILQKTTN  
ESMENSCPQVTEVTATEEHVDKMYLNLRRKITVNSSSLSQDDKINKTYRSQLSSEEEGA  
VMGKQVPYKKARSAPPLLRKPQSGLYASVRSSGYGKPSPLKMFSTLEKKTSEDIIKSK  
NLRSISTSNQPRKKEILSGTKLIKPAALDKPAHKTESCLSTRKSENPTETDSCIQFQTD  
SLGYCGENKEKKLLMFKRVQEAEDKWRGAQALIEQIKATFSEKEKELENKLEELKKQKEK  
ELFKLNQDNYILQAKLSSFEETNKKQRWLHFGEAADPVTGEKLKQIQKEIQEQETLLQGY  
QQENERLYNQVKDLQEQNKNEERMFKENQSLFSEVASLKEQMHKSRFLSQVVEDSEPTR  
NQNFDTLLAELRMAQKEKDSLLEDIKRLKQDKQALEVDFEKMKKERDQAKDQIAYVTGEK  
LYEIKILEETHKQEISRLQKRLQWYAENQELLDKDRLREANEEIEKLKLEIEKLKAES  
GNPSIRKQIRLKDAADAKKIQDLERQVKEMEGILKRRYPNSLPALILAASAAGDTV DKN  
TVEFMEKRIKKLEADLEGKDEDAKSLRTMEQQFQKMKIQYEQRLEQQEQLLACKLNQHD  
SPRIKALEKELDDIKEAHQITVRNLEAIDVLKHQNAELDVKKNDKDDDFQSIEFQVEQ  
AHAKAKLVRLNEELAACKREIQDLSKTVERLQKDRRMMLSNQNSKGREEMSAKRAKKDVL  
HSSKGNANSFPGTLDKLYQPHTFTDSHVSEVLQENYRLKNELEGLISEKNELKMKSEAV  
MNQFENSMRRVKEDTAAHIASLKASHQREIEKLLCQNAVENSSSKVAELNRKIATQEVLI  
RHFQSQVNELQSKQESLVVSEVREEILQKEITKLLEELREAKENHTPEMKHFVGLEKKIK  
QMEMRHAQREQELQQIIQQTHQVVETEQNKEVEKWKRLAQLKNRELEKFRTELD SILDVL  
RELHRQG VVPVAFADENNAPEY

>sp|Q5VT06|CE350\_HUMAN Centrosome-associated protein 350 OS=Homo sapiens GN=CEP350 PE=1 SV=1

MRSSKSKEVPLPNPRNSQSKDTVQADITTSWDALSQTKAALRHIEKLEVAPTSTAVCDS  
VMDTKKSSTSATRKISRKDGRLDDSWVNAPISKSTKSREKRSRPLRATTLESNVKKN  
RVEFREPLVSYREIHGAPSNFSSSHLESKHVYCVDVNEEKTESGNWMIGSREERNIRSCD  
FESSQSSVINDTVVRFLNDRPAIDALQNSECLIRMGASMRTEEMPNRTKGSENNLKL SV  
NNMAHDTDPKALRLTDSSPSSTSTSNSQRLDILKRRQHDVKLEKLKERIRKQWEHSEETN  
GRGQKLGHIDHPVMVNVDNSVTAKVRKVATAPPAPAYKGFNPSETKIRTPDGKVVQEAE  
FQNMSRELYRDLALHFADDISIKEKPAEKSKEKKVVKPVRKVQKVAQLSSTECRTGSSHL  
ISTSSWRDGQKL VKKILGPAPRMEPKEQRTASSDRGGRERTAKSGGHIGRAESDPRLDVL  
HRHLQRNSERSRSKRSSENNIKKLASSLPDNKQEENTALNKDFLPIEIRGILDDLQLDST  
AHTAKQDTVELQNKSSAPVHAPRSHSPVKRKPDKITANEDPPVISKRRHYDTDEVRYI  
VRQQEERKRKQNEEKKAQKEATEQKNKRLQELYRKQKEAFTKVKNVPPSEPSATRLQET  
YSKLLLEKTLLEEPSHQHVTQETQAKPGYQPSGESDKENKVQERPPSASSSSDMSLSEPP  
QPLARKDLMESTWMQPERLSPQVHHSQPQPFAGTAGSLLSHLLSLEHV GILHKDFESILP  
TRKNHNMASRPLTFTPQPYVTSPAAYTDALLKPSASQYKSKLDRIEALKATAASLSSRIE  
SEAKKLAGASINYGSAWNT EYDVQQAPQEDGPWTKAVTPPVKDDNEDVFSARIQKMLGSC  
VSHATFDDDLPGVGNLSEFKKLPEMIRPQSAISSFRVRSPGPKPEGLLAQLCKRQTDSSS  
SDMQACSQDKAKISLGSSIDSVSEGPLLSEGLSEEEDQDGQPLLKVAEILKEKEFCPG  
ERNSEYPIKEFQKEAEKFLPLFGHIGGTQSKGPWEELAKGSPHSVINIFTKSYQLYGKGF  
EDKLDRGTTSTSRPLNATATPLSGVSYEDDFVSSPGTGTSTTEKKSTLEPHSTLSPQEDHSN  
RKSAYDPSSVDVTSQHSSGAQSAASSRSSTSSKGGKGGKEKTEWLDSTGNVQNSLLDEE  
KAERGSHQGGKSGTSSKLSVKDFEQTLDTDSTLEDLSGHSVSVSSDKGRSQKTPTSPLSP  
SSQKSLQFDVAGTSSERSKSSVMPTITGFKPNAPLTDLNPAASRTTTENMAPIPGSKRF  
SPAGLHHRMAAELSYLNAIEESVRQLSDVERVRGISLAQQESVSLAQI IKAQQQRHERDL  
ALLKLKAEQEALESQRQLEETR NKAQVHAESLQQVVQSQREVTEVLQEATCKIAAQQSE  
TARLTTDAARQICEMAELTRTHISDAVVASGAPLAILYDHQRQHLPDFVKQLRTRTETDR  
KSPSVLSQSKEGTLD SKHQKYSASYDSYESSGYKNHRRSSSGSSRQESPSVPCKEN  
EKKLNGEKIESSIDEQVQTAADDSLRS DSVPSLPDEKDSTSIATEYSLKFDESMTED EIE  
EQSFRSLLPSESHRRFNMEKRRGHDDSD EEA SPEKTTLSTAKELNMPFSGGQDSFSKFT  
MEMVRQYMKEEMRAAHQSLLRLREKALKEKTKAELAWLEHKKHLRDKGEDDKMPPLR  
KKQRGLLLRLQKEKAEIKRLQEANKAARKERQLILKQEEIEKIRQTTIKLQEKLSAGE  
SKLDSHSDDDTKDNKATSPGPTDLETRSPSPISISSSETSSIMQKLKMRMRMDEKFLTK  
REQKLMQRRQHAELLEWKRRLD AEEAEIRQMEKQALAAWDKELIKPKTPKKELEDQRTE  
QKEIAS EEE SPVPLYSHL NSESSIPEELGSPAVEYVPSESIGQE QPGSPDHSILTEEMIC  
SQELESSTSPSKHSLPKSCTSVSKQESSKGSHRTGGQCHLPKSHQH CYSWSDESLSMTQ  
SETTSDQSDIEGRIRALKDELRRKSVVNQLKKEQKKRQKERLKAQEASLIKQLESYDEF  
IKKTEAELSQDLETSPTAKPQIKTLSSASEKPKIKPLTPLHRSETAKNWKSLTESERSRG  
SLESIAEHVDASLSG SERSVSERSLSAYAKRVNEWDSRTEDFQTPSPVLRSSRKIREESG  
DSLENVPALHLLKELNATSRILMSDGKVGESSKKSEIKEIEYTKLKKSKIEDAFSKEGK  
SDVLLKLVLEQGDSEILSKKDLPLDSENVQKDLVGLAIENLHKSEMLKERQSDQDMNH  
SPNIQSGKDIHEQKNTKEKDL SWEHLFAPKEIPYSEDFEVSSFKKEISAELYKDDFEVS  
SLLSLRKDSQSCRDPKQPMRSSTSGATSFGSNEEISECLSEKSLSIHSNVHSDRLLELKS  
PTELMKS KERSDVEHEQQVTESPSLASVPTADELDFDHIGDRVLIGNVQPGILRFKGETS  
FAKGFWAGVELDKPEGNNNGTYDGIAYFECKEKGIFAPPQKISHIPENFDDYVDINEDE  
DCYSDERYQCYNQE QNDTEGPKDREKDVSEYFYEKS LPSVNDIEASVNRSRSLKIETDNV

QDISGVLEAHVHQSSVDSQISSKENKDLISDATEKVSIAAEDDTLDNTFSEELEKQQQF  
TEEDNLYAEASEKLCTPLDLLTREKNQLEAQLKSSLNEEKSKQKLEKISLLTDSLLK  
VFVKDTVNQLQQIKKTRDEKIQLSNQELLGDDQKKVTPQDLSQNVEEQSPSISGCFLSSE  
LEDEKEEISSPDMCPRPESPVFASGQEELAKRLAELELSREFLSALGDDQDWFEDEFGL  
SSSHKIQKNKAEETIVPLMAEPKRVTTQPCETLLAVPHTAEEVEILVHNAEELWKWKEL  
GHDLSISIPTKLLGCASKGLDIESTSKRVYKQAVFDLTKEIFEEIFAEDPNLNQPVWMK  
PCRINSSYFRRVKNPNLDEIKSFIASEVLKFLSLKKEPNHKTWDQKMMKFGRKKRDRVD  
HILVQELHEEEAQWVNYDEDELCKMQLADGIFETLIKDTIDVLNQISEKQGRMLLV

>sp|Q5SZL2|CE85L\_HUMAN Centrosomal protein of 85 kDa-like OS=Homo sapiens GN=CEP85L PE=1 SV=1

MWGRFLAPEASGRDSPGGARSFPAGPDYSSAWLPANESLWQATTVPSNHRNNHIRHSIA  
SDSGDTGIGTSCSDSVEDHSTSSGTLSEFKPSQSLITLPTAHVMPNSNSASISKLRESLTP  
DGSKWSTSLMQTLGNHSRGEQDSSLDMDKFRPLRKWSSLSKLTAPDNCGGGTVCREESR  
NGLEKIGKAKALTSQLRITGPSCLHDSMEMLRLEDKEINKRSSTLDCKYKFESCSEDEF  
RASSTLRQPVDMTYSALPESKPIMTSSEAFEPKYLMLGQAVGGVPIQPSVRTQMWL  
TEQLRTNPLEGRNTEDSYSLAPWQQQQIEDFRQGSETPMQVLTGSSRQSYSPGYQDFSKW  
ESMLKIKEGLLRQKEIVIDRQKQKITHLHERIRDNELRAQHAMLGHYVNCEDSYVASLQP  
QYENTSLQTPFSEESVSHSQQGEFEQKLASTEKEVLQLNEFLKQRLSLFSEEKKKLEEK  
KTRDRYISSLKKKCKESEQNKEKQRRITLEKYLADLPTLDDVQSLSLQLILEEKNKN  
LQEALIDTEKKLEEIKKQCQDKETQLICQKKKEKELVTTVQSLQKVERCLEDGIRLPML  
DAKQLQNENDNLRQNETASKIIDSQQDEIDRMILEIQSMQGLSKEKLTTQKMMEELEK  
KERNVQRLTKALLENQRQTDETCSLLDQGQEPDQSRQQTVLSCRPLFDLTVIDQLFKEMS  
CCLFDLKALCSILNQRAQKPNLSLLLGIRSMNCSAEETENDHSTETLTKKLSDVCQLR  
RDIDELRTTISDRYAQDMGDNCTIQ

>sp|Q7Z692|CEA19\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 19 OS=Homo sapiens GN=CEACAM19 PE=1 SV=2

MEIPMGTTGCFKSLLLSASILVLWMLQGSQAALYIQKIPEQPQKNQDLLLLSVQGVPDF  
QDFNWLGEETYGGTRLFTYIPGIQRPQRDGSAMGQRDIVGFNGSMLLRRAQPTDSGT  
QVAITINSEWTMAKTEVQVAEKNKELPSTHLPTNAGILAATIIGSLAAGALLISCIAYL  
LVTRNWRGQSHRLPAPRGQGSLSILCSAVSPVSVTPSTWMATTEKPELGPAHDAGDNNI  
YEVMPSPVLLVSPISDTRSINPARPLTPPHLQAEPENHQQDLLNPDPAQYQCLVPTS

>sp|P40199|CEAM6\_HUMAN Carcinoembryonic antigen-related cell adhesion molecule 6 OS=Homo sapiens GN=CEACAM6 PE=1 SV=3

MGPPSAPPCLHVPWKEVLLTASLLTFWNPPTAKLTISTPFNVAEGKEVLLLAHNLQ  
NRIGYSWYKGERVDGNSLIVGYVIGTQQATPGPAYSGRETIYPNASLLIQNVTQNDTGFY  
TLQVIKSDLVNEEATGQFHVPELPKPSISSNNSNPVEDKDAVFTCEPEVQNTTYLWV  
NGQSLPVSPRLQLSNGNMTLTLLSVKRNDAGSYECEIQNPASANRSDPVTNLVLYGPDGP  
TISPSKANYRPGENLNSCHAAASPPAQYSWFINGTFQQSTQELFIPNITVNNSGSYMCQ  
AHNSATGLNRTTVMITVSGSAPVLSAVATVGITIGVLARVALI

>sp|P17676|CEBPB\_HUMAN CCAAT/enhancer-binding protein beta OS=Homo sapiens GN=CEBPB PE=1 SV=2

MQRLVAWDPACLPLPPPPAFKSMEVANFYEADCLAAAYGGKAAPAAPPAARPGPRPPA  
GELGSIGDHERAIDFSPYLEPLGAPQAPAPATATDTFEAAPAPAPAPASSGQHDFLSD  
LFSDDYGGKNCKKPAEYGYVSLGRLGAAKGALHPGCFAPLHPPPPPPPPPAELKAEPGFE

PADCKRKEEAGAPGGGAGMAAGFPYALRAYLGQAVPSGSSGSLSTSSSSSPGTPSPAD  
AKAPPTACYAGAAPAPSQVKS KAKKTVDKHSDEYKIRRERNNI AVRKS RD KAKMRNLETQ  
HKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPELLASSGHC

>sp|Q5T655|CFA58\_HUMAN Cilia- and flagella-associated protein 58 OS=Homo sapiens  
GN=CFAP58 PE=1 SV=1

MAEEKGGKQVLEESA FEEMERDFQGV LHELSGDKSLEKFRIEYERLHAVMKKSYDNEKRL  
MAKCRELNAEIVNSAKVATALKLSQDDQTTIASLKKEIEKAWKMVDSAYDKEQKAKETI  
LALKEEIVNLTKLVEQGSGLSMDQHSNIRDLLRFKEEVTKERDQLLSEVVKLRESLAQTT  
EQQQETERSKEEAHAISQFQQEIQQRQNEASREFRKKKEKLEKELKQIQADMSRQTEIK  
ALQQYVQKSKEELQKLEQQLKEQKILNERAAKELEQFQMRNAKLQQENEQHSLVCEQLSQ  
ENQQKALELKAKEEEVHQMRLDIGKLNKIREQIHKKLHHTEDQKAEVEQHKETLKNQIVG  
LEREVEASKKQAE LDRKAMDELLRERDILNKNMLKAVNATQKQTDLVKLHEQAKRNLEGE  
IQNYKDEAQKQRKIIIFHLEKERDRYINQASDLTQKVLNMEDIKVRETQIFDYRKKIAES  
EIKLKQQQNL YEAVRSRNLYSKNLVEAQDEITDMKRKLKIMIHQVDELKEDISAKESAL  
VKLHLEQQRIEKEKETLKAELQKL RQQALET KHFI EKQEA EERKLLRI IAEADGERLRQK  
KELDQVISERDILGSQLVRRNDELALLYEKIKIQQSVLNKGESQYNQRLEDMRILRLEIK  
KL RREGILARSMANVEELRQEFFHMQRELLKERTCRAL EEELENPLNVHRWRKLEASD  
PNAYELIQKIHTLQKRLISKTEEVVEKELLQEKEKLYMELKHVLARQPGPEAAEQKLKY  
RRTLHDKKQQLKVLSSSELNMYEVQSKEYKYEVEKLTNELQNLKKKYLAQKRKEQLQKNKD  
TAPMDNTFLMVKPNGPGFTGGGFPLRSTKMTF

>sp|O15519|CFLAR\_HUMAN CASP8 and FADD-like apoptosis regulator OS=Homo sapiens GN=CFLAR  
PE=1 SV=1

MSAEVIHQVEEALDTEKEMLLFLCRDVAIDVPPNVRD LLDILRERGKLSVGDLAELLY  
RVRRFDLLKRILKMDRKAVETHLLRNPHLVSDYRVLMAEIGEDLDKSDVSSLIFLMKDYM  
GRGKISKEKSFLDLVVELEKLNLVAPDQLDLLEKCLKNIHRIDLTKTIQKYKQSVQGAGT  
SYRNVLQAAIQKSLKDPSNNFRLHNHGRSKEQRLKEQLGAQQEPVKKSIQESEAFLPQSIP  
EERYKMKSKPLGICLI IDCIGNETELL RDTFTSLGYEVQKFLHLSMHGISQILGQFACMP  
EHRDYDSFVCVLVSRGGSQSVYGV DQTHSGLPLHHIRRMFMGDSCPYLAGPKPMFFIQNY  
VVSEGQLEDSSLLEVDGPAMKNVEFKAQKRG LCTVHREADFFWSLCTADMSLLEQSHSP  
SLYLQCLSQKLRQERKRPLDLHIELNGYMYDWN SRVSAKEKYYVWLQHTLRKKLILSYT

>sp|Q9BPX7|CG025\_HUMAN UPF0415 protein C7orf25 OS=Homo sapiens GN=C7orf25 PE=1 SV=1

MSAHSMLCERIAIAKELIKRAESLSRSRGGGIEGGAKLCSKLKAELKFLQKVEAGKVAIK  
ESHLQSTNLTHLRAIVESAENLEEVSVLHVFGYDTLGEKQTLVVDVVANGGHTWVKAI  
GRKAEALHNIWLGRGQYGDKSIEQAEDFLQASHQQPVQYSNPHIIFAFYNSVSSPMAEK  
LKEMGISVRGDIVAVNALLDHPEELQPSESESDDEGPELLQVTRVDRENILASVAFPT EI  
KVDVCKRVNLDITTLITYVSALSYGGCHFIFKEKVLTEQAEQERKEQVLPQLEAFMKDKE  
LFACESAVKDFQSILDTLGGPGERERATVLIKRINVVPDQPSERALRLVASSKINSRSLT  
IFGTGDTLKAITMTANS GFVRAANNQGVKFSVFIHQPRALTESKEALATPLPKDYTTDSE  
H

>sp|Q96L11|CG034\_HUMAN Uncharacterized protein C7orf34 OS=Homo sapiens GN=C7orf34 PE=2  
SV=1

MPPLAPQLCRAVFLVPILLLLQVKPLNGSPGPKDGSQTEKTPSADQNQE QFEEHFVASSV  
GEMWQVVDMAQQEEDQSSKTA AVHKHSFHL SFCFSLASVMVFSGGPLRRTFPNIQLCFML  
TH

>sp|A4D174|CG071\_HUMAN Putative uncharacterized protein C7orf71 OS=Homo sapiens  
GN=C7orf71 PE=2 SV=1

MGSCGWALTQSDWCPFKKRKRHRQCAHSETRHMRTQRQGGYLQARERGLGEANPAYALIL  
DFQPPELQNLSEMGINHELGYSSIIPMMKRAFSACGTGLIMSGIFDNP GPIKNTLKKAF  
TMLWSFTVYTRLESRLVALSNEEMVPFIFHLKTQTANMLSGPISTPMLL

>sp|EOCX11|CG073\_HUMAN Uncharacterized protein C7orf73 OS=Homo sapiens GN=C7orf73 PE=1  
SV=1

MLQFLLGFTLGNVVGMYLAQNYDIPNLAKKLEEIKKDLDAKKKPPSA

>sp|Q96NL8|CH037\_HUMAN Protein C8orf37 OS=Homo sapiens GN=C8orf37 PE=1 SV=1

MAEDLDELLEVESKFCTPDLLRRGMVEQPKGCGGGTHSSDRNQAKAKETLRSTETFKKE  
DDLDLINEILEEPNLDKKPSKLKSSGNTSVRASIEGLGKSCSPVYLGSSIPCGIGT  
NISWRACDHLRCIACDFLVVSYYDDYMWDKSCDYLFFRNNMPEFHKLKAKLIKKGTRAYA  
CQCSWRTIEEVTDLQTDHQLRWVCGKH

>sp|Q96NF6|CH049\_HUMAN Putative uncharacterized protein C8orf49 OS=Homo sapiens  
GN=C8orf49 PE=2 SV=1

MEKPRLYQKYKISRWWRLPVIPATREAEDNRLNPEGRGCGEPRSRHCTPAWTTTAKLHL  
KTIISLQPLNMYQMEPGVGSIRTSPALQSPPALTRGPSAWDTAIRKALSFGVGLGVVLV  
CLFYHFVTLAPILQFASLPCLLEAGAQMRSRHPVTTQVCIMPARLSLGSGISRNLLRLSVC  
HFTLLLPPFRSLRPCPLSSRDMVLSYELWLLCDFYIAPPDSSGSGICKKAI

>sp|Q6ZUL3|CH086\_HUMAN Uncharacterized protein C8orf86 OS=Homo sapiens GN=C8orf86 PE=2  
SV=1

MRPLGKGLLPAEELIRSNLGVGRSLRDCLSQSGKLAEELGSKRLKPAKFGTEGKERVEQR  
TERQRTGSSKEPRMQIICRRRWREPPRLLWGCLMPRAQPLLHVTAYENTGHWERLASVV  
SSKTQQPTVISHSSISITFSHYPPATLDSFLVLEPIKLPVSSLRSPCLNCGSCRESIR  
ISGELIGNAHSPAPPRTPELETLGWDKQAVLSGAQVILVCAEV

>sp|Q96BP2|CHCH1\_HUMAN Coiled-coil-helix-coiled-coil-helix domain-containing protein 1  
OS=Homo sapiens GN=CHCHD1 PE=1 SV=1

MATPSLRGRLARFGNPRKPVLPKNKPLILANRVGERRREKGEATCITEMSVMMACWKQNE  
FRDDACRKEIQGFLDCAARAQEARKMRSIQETLGESGSLPNKLNKLLQRFNPKPYLS

>sp|O14646|CHD1\_HUMAN Chromodomain-helicase-DNA-binding protein 1 OS=Homo sapiens GN=CHD1  
PE=1 SV=2

MNGHSDEESVRNSSGESSQDDDSGSASGSGSGSSSGSSDQSSSQSGSSDSDSGSESGS  
QSESESDTSRENKVQAKPPKVDGAEFWKSSPSILAVQRSAILKKQQQQQQQQHQASSNS  
GSEEDSSSSSESDSSSEVKRKKHKDEDWQMSGSGSPSQSGSDSESEEEEREKSSCDETES  
DYEPKNKVKSQNRKSKNGKKILGQKKRQIDSSEDDDEEDYDNDKRSSRRQATVNV  
SYKEDEEMKTDSDDLLEVCGEDVPQPEEEEFETIERFMDCRIGRKGATGATTTIYAVEAD  
GDPNAGFEKNKEPGEIQYLKWKGWSHIHNTWETEETLKQQNVGRGMKKLDNYKKKDQETK  
RWLKNASPEDVEYYNCQQELTDDLHKQYQIVERIIAHSNQKSAAGYPDYYCKWQGLPYSE  
CSWEDGALISKKFQACIDEYFSRNQSKTTPFKDCKVLKQRPRFVALKKQPSYIGGHEGLE  
LRDYQLNGLNWLHWSCKGNSCILADEMGLGTITISFLNYLFHEHQLYGPFLLVVPLS  
TLTSWQREIQTWASQMANVVYLGDISRNMIRTHEWTHHQT KRLKFNILLTTYEILLKDK  
AFLGGLNWAFIGVDEAHLKNDSSLLYKTLIDFKSNHRLITGTPLQNSLKELWSSLHFI  
MPEKFSSWEDFEEHKGREYGYASLHKELEPFLLRRVKKDVEKSLPAKVEQILRMEMSA  
LQKQYYKWILTRNYKALSKGSKGSTSGFLNIMMELKKCCNHCYLIKPPDNNEFYNKQEAL

QHLIRSSGKLILLDKLLIRLRERGNRVLIFSQMVRMLDILAEYLKYRQFPFQRLDGSIKG  
ELRKQALDHFNAEGSEDFCFLSTRAGGLGINLASADTVVIFDSDWNPQNDLQAQARAHR  
IGQKKQVNIYRLVTKGSVEEDILERAKKKMVL DHLVIQRMDTTGKTVLHTGSAPSSSTPF  
NKEELSAILKFGAEELFKEPEGEEQEPQEMDIDEILKRAETHENEPGPLTVGDELLSQFK  
VANFSNMEDDIELEPERNSKNWEEIIPEDQRRRLEEEERQKELEEIYMLPRMRNCAKQI  
SFNGSEGRRSRRYSRSGSDSDSISEGKRPKKRGRPRTIPRENIKGFSDAEIRRFIKSYKK  
FGGPLERLDAIARDAELVDKSETDLRRLGELVHNGCIKALKDSSSGTERTGGRLGKVKGP  
TFRISGVQVNAKLVISHEEELIPLHKSIPSDPEERKQYTIPCHTKAAHFDIDWGKEDDSN  
LLIGIYEYGYGSWEMIKMDPDLSTHKILPDDPKKPQAKQLQTRADYLIKLLSRDLAKK  
EALSGAGSSKRRKARAKKNAMKSIKVKEEIKSDSSPLPSEKSEDDDDKLESKSDGRER  
SKKSSVSDAPVHITASGEPVPISEEESELDQKTFSICKERMPVKAALKQLDRPEKGLSE  
REQLEHTRQCLIKIGDHITECLKEYTNPEQIKQWRKNLWIFVSKFTEFDARKLHKLKHA  
IKKRQESQQNSDQNSNLNPHVIRNPDVERLKENTNHDDSSRDSYSSDRHLTQYHDDHKKDR  
HQGDSYKKSRSRKPYSFNGKDRDWDHYKQDSRYSDREKHKLLDHRSDHRSNLE  
GSLKDRSHSDHRSDDHRLSHDRSSSEYTHHKSSRDYRYHSDWQMDHRASSSGPRSPLD  
QRSPYGSRSRPFESVHKSTPEHTWSSRKT

>sp|Q8NE62|CHDH\_HUMAN Choline dehydrogenase, mitochondrial OS=Homo sapiens GN=CHDH PE=1  
SV=2

MWCLLRGLGRPGALARGALGQQQSLGARALASAGESRDEYSYVVVGAGSAGCVLAGRLT  
EDPAERVLLLEAGPKDVLGASKRLSWKIHMPAALVANLCDDRYNWCYHTEVQRGLDGRVL  
YWPRGRVWGGSSSLNAMVYVRGHAEDYERWQRQGARGWDYAHCLPYFRKAQGHELGASRY  
RGADGPLRVSRGKTNHPLHCAFLEATQQAGYPLTEDMNGFQQEGFGWMDMTIHEGKRWSA  
ACAYLHPALSRTNLKAEATLVSRLFEGTRAVGVEYVKNQSHRAYASKEVILSGGAIN  
SPQLMLSGIGNADDLKKLGIPVCHLPGVGQNLQDHLEIYIQQACTRPITLHSAQKPLR  
KVCIGLEWLWKFTGEGATAHLETGGFIRSQPGVPHPDIQHFPLPSQVIDHGRVPTQQEAY  
QVHVGPMRGTSVGWLKLSANPDHPVIQPNYLSTETDIEDFRLCVKLTREIFAQEALAP  
FRGKELQPGSHIQSDKEIDAFVRAKADSAYHPSCCTCKMGQPSDPTAVVDPQTRVLGVENL  
RVVDASIMPSMVSGNLNAPTIMIAEKAADI IKGQPALWDKDVVYKPRTLATQR

>sp|Q5VXU3|CHIC1\_HUMAN Cysteine-rich hydrophobic domain-containing protein 1 OS=Homo  
sapiens GN=CHIC1 PE=2 SV=2

MSILLPNMAEFDTISELEEEEEEEAATSSSSPSSSSVSGPDDDEEEEEEEEEEEEEEE  
EEEEEEEEAPPPRVVSEHLRRYAPDPVLVRGAGHITVFGLSNKFDTEFPSVLTGKVAP  
EEFKTSIGRVNACLKKALPVNVKWL LCGCLCCCTLGCSLWPVICLNKRTRRSIQKLIEW  
ENNRLYHKLALHWKLTKRKCETSNMMEYVILIEFLPKYPIFRPD

>sp|Q9UKJ5|CHIC2\_HUMAN Cysteine-rich hydrophobic domain-containing protein 2 OS=Homo  
sapiens GN=CHIC2 PE=1 SV=1

MADFDEIYEEEEDEERALEEQLLKYSPPVVRGSGHVTVFGLSNKFESEFPSSLTGKVA  
PEEFKASINRVNSCLKKNLPVNVRWLLCGCLCCCTLGCSMWVVICLSKRTRRSIEKLL  
WENNRLYHKLCLHWRLSKRKETNNMMEYVILIEFLPKTPIFRPD

>sp|P52757|CHIO\_HUMAN Beta-chimaerin OS=Homo sapiens GN=CHN2 PE=1 SV=2

MAASSNSSLSGSSVSSDAEEYQPIWKSYLYQLQQEAPRPKRIICPREVENRPKYYGREF  
HGIISREQADELLGGVEGAYILRESQRQPGCYTLALRFGNQTLNYRLFHDGKHVGEKRF  
ESIHDLVTDGLITLYIETKAAEYISKMTTNPIYEHIGYATLLREKVSRRLSRSKNEPRKT  
NVTHEEHTAVEKISSLVRRALTHNDNHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIA



QGVRCSDCGLNVHKQCSKHVPNDQPD LKRIKKVYCCDLTTLVKAHNTQRPMVVDICIRE  
IEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPDINIITGALKLYFRDLP  
IPVITYDTYSKFIDAAKISNADERLEAVEVLMMLPPAHYETLRYLMIHLKKVTMNEKDN  
FMNAENLGIVFGPTLMRPPEDSTLTTLHDMRYQKLIVQILIENEDVLF

>sp|Q13231|CHIT1\_HUMAN Chitotriosidase-1 OS=Homo sapiens GN=CHIT1 PE=1 SV=1

MVRSAWAGFMVLLMIPWGSAAKLVCYFTNWAQYRQGEARFLPKDLDP SLCTHLIYAFAG  
MTNHLSTTEWNETLYQE FNGLKKMNP KLTLLAIGGW NFGTQKFTDMVATANNRQTFV  
NSAIRFLRKYSFDGLDL DWEYPGSQGSPA VDKERFTTLVQDLANAFQQAQTS GKERLLL  
SAAVPAGQTYVDAGYEVDKIAQNLD FVNLMAYDFHGSWEKVTGHNSPLYKRQEESGAAAS  
LNVDAAVQQWLQKGTPASKLILGMPT YGRSFTLASSSDTRVGAPATGSGTPGPFTKEGGM  
LAYYEVC SWKGATKQRIQDQKVPYIFRDNQVWGFD DVESFKTKVSYLKQKGLGGAMVWAL  
DLDDFAGFSCNQGRYPLIQTLRQELSLPYLPSGTPELEV PKGPQSEPEHGSPGQDTFC  
QKGADGLYPNPRERSSFYSCAAGRLFQQSCPTGLVFSNSCKCCTWN

>sp|096017|CHK2\_HUMAN Serine/threonine-protein kinase Chk2 OS=Homo sapiens GN=CHK2 PE=1 SV=1

MSRES DVEAQQSHGSSACSQPHGSVTQS QGSSSSQSGISSSTSTMPNSSQSSHSSSGTL  
SSLETVSTQELYSIPEDQEPEDQEPEE TPAPWARLWALQDGFANLECVNDNYWFG RDKS  
CEYCFDEPLLKRTDKYRTYSKKHFRI FREVGPKN SYIAYIEDHSGNGTFVNTELVGKGKR  
RPLNNSEIALSLSRNKVFVFDLTVDDQSVYPKALRDEYIMSKTLGSGACGEVKLA FER  
KTCKKVAIKIISKRF AIGSAREADPALNVETEIEILKKNHP CIIKIKNFFDAEDYYIV  
LELMEGGELFDKVVGNKRLKEATCKLYFYQMLLAVQYLHENG IHRDLKPENVLLSSQEE  
DCLIKITDFGHSKILGETSLMRTL CGTPTYLAPEVLVSVG TAGYNRAVDCWSLGVILFIC  
LSGYPPFSEHRTQVSLKDQITSGY NFIPVWAEVSEKALDLVKLLV VDPKARFTTEEA  
LRHPWLQDEDMKRKFQDLLSEENESTALPQVLAQPSTSRKRPREGEAEGAETTKRPAVCA  
AVL

>sp|Q96CF2|CHM4C\_HUMAN Charged multivesicular body protein 4c OS=Homo sapiens GN=CHMP4C PE=1 SV=1

MSKLGKFFKGGSSKSRAAPSPQEALVRLRETEEMLGKKQEYLENRIQREIALAKKHGTQ  
NKRAALQALKRKRFEKQLTQIDGTLSTIEFQREALENSHTNTEVLRNMGFAAKAMKSVH  
ENMDLNKIDDLMQEITEQQDIAQEISEAFSQRVGFDDFDEDELMAELEELEQEELNKKM  
TNIRLPNPVSSSLPAQPNRKPGMSSTARRSRAASSQRAEEEDDDIKQLAAWAT

>sp|Q9H9P2|CHODL\_HUMAN Chondrolectin OS=Homo sapiens GN=CHODL PE=2 SV=2

MSRVVSLLLGAALLCGHGAFCRRVVSGQKVCFA DFKHPCYKMAYFHELSSRVSFQEARLA  
CESEGGLLSLENEAEQKLIESMLQNLTKPGTGISD GDFWIGLWRNGDGQTSGACPDLYQ  
WSDGNSQYRNWYDEPSCGSEKCVVMYHQPTANPGLGGPYLYQWND DRCNMKHNYICKY  
EPEINPTAPVEKPYLTNQPGDTHQNVVTEAGIIPNL IYVVIPTIPLLLLILVAFGTCCF  
QMLHKSKGRKTKSPNQSTLWISKSTRKESGMEV

>sp|Q9P2E5|CHPF2\_HUMAN Chondroitin sulfate glucuronyltransferase OS=Homo sapiens GN=CHPF2 PE=2 SV=2

MRLSSLLALLRPALPLILGLSLGCSLSLLRVSWIQGEGEDPCVEAVGERGGPQNPDSRAR  
LDQSEDEFKPRIVPYRDPNKPYPKVLRTYIQT ELGSRERLLVAVLTSRATLSTLAVAV  
NRTVAHHFPRLLYFTGQRGARAPAGMQV VSHGDERPAWLMSETLRHLH THFGADYDWWFI  
MQDDTYVQAPRLAALAGHLSINQDLYLGRAEEFI GAGEQARYCHGGFGYLLSRSLLLRLR  
PHLDGCRGDILSARPDEWLGRCLIDSLGVGCVSQHQGQYRSFELAKNRDPEKEGSSAFL

SAFAVHPVSEGLTMYRLHKRFSALELERAYSEIEQLQAQIRNLTVLTPEGEAGLSWPVGL  
PAPFTPHSRFEVLGWDYFTEQHTFSCADGAPKCPLQGASRADVGDALETALEQLNRRYQP  
RLRFQKQRLNNGYRRFDPARGMEYTLDLLLECVTQRGHRRALARRVSLRPLSRVEILPM  
PYVTEATRVQLVPLLVAAAAAPAFLEAFAANVLEPREHALLTLLLVYGPREGGRGAPD  
PFLGVKAAAAELERRYPGTRLAWLAVRAEAPSQVRLMDVVSKKHPVDTLFFLTTVWTRPG  
PEVLNRCRMNAISGWQAFFPVHFQEFNPALSPQRSPPGPPGAGDPSPSPGADPSRGAPI  
GGRFDRQASAEGCFYNADYLAARARLAGELAGQEEEEALEGLEVMDFLRFSGLHLFRAV  
EPLGVQKFSLRDCSPRLSEELYHRCRLSNLEGLGGRAQLAMALFEQEQUANST

>sp|P51861|CDR1\_HUMAN Cerebellar degeneration-related antigen 1 OS=Homo sapiens GN=CDR1  
PE=1 SV=2

MAWLEDVDFLEDVPLEDIPLLEDVPLEDVPLEDTSRLEDINLMEDMALLEDVDLLED  
TDFLEDLDFSEAMDREDKDFLEDMSLEDMALEDVDLLEDTDLEDPDFLEAIDLRED  
KDFLEDMSLEDLEAIGRCGFSGRHGFFGRRRFSGRPKLSGRLGLLGRRGFSGRGGYWK  
TWIFWKTWIFWKTWIFRKYTIYKWTWIFSGRCGLTGRPGFGRRRFFWKTLTDWKTWISF  
WKTLDWKTWISFWKTLDWKI

>sp|Q01850|CDR2\_HUMAN Cerebellar degeneration-related protein 2 OS=Homo sapiens GN=CDR2  
PE=1 SV=2

MLAENLVEEFEMKEDEPWYDHQDLQQDLQLAAELGKTLDRNTELEDSVQQMYTTNQEQL  
QEIEYLTQVELLRQMNEQHAKVYEQLDVTARELEETNQKLVADESKASQQKILSLTETIE  
CLQTNIDHLSQVEELKSSGQGRRSPGKCDQEKPAFACLKELYDLRQHVFYDHFVFAEK  
ITSLQGQSPDEEENEHLKKTVTMLQAQLSLERQKRVTMEEYGLVLKENSELEQQLGAT  
GAYRARALELEAEVAEMRQMLQSEHPFVNGVEKLVPSLYVPFKEPSQSLEEMFLTVPE  
SHRKPLKRSSSETILSSLAGSDIVKGHEETCIRRAKAVKQRGISLLHEVDYQYSALKVKY  
EELLKKCQEEQDSLHKAVQTSRAAAKDLTGVAQSEPVASGWELASVNPEPVSSPTTPP  
EYKALFKEIFSCIKTKQEIDEQRTKYRSLSSH

>sp|Q8N9R6|CDRT4\_HUMAN CMT1A duplicated region transcript 4 protein OS=Homo sapiens  
GN=CDRT4 PE=2 SV=2

MDARRMKKEGLTENTGLPRKLEKHDPWPAYVTYTSQTVKRLIEKSKTRELECMRALEER  
PWASRQNKPSVVIQPKRRKSSKSSGKAVFRDTLSESTLSMWGAYSVLAMAPTMIPEPTHL  
HADSRDCPTENYNKIIFARKPMMRMLPTVRY

>sp|Q92903|CDS1\_HUMAN Phosphatidate cytidylyltransferase 1 OS=Homo sapiens GN=CDS1 PE=2  
SV=2

MLELRHRGSCPGPREAVSPPHREGAAGGDHETESTSDKETDIDDRYGDLSRTDSDIPE  
IPSSDRTPPEILKKALSGLSSRWKNWWIRGILTLTMISLFFLIIMGSFMLMLVLGIQV  
KCFHEIITIGYRVYHSYDLPWFRTLWSYFLLCVNYFFYGETVADYFATFVQREEQLQFLI  
RYHRFISFALYLAGFCMFVLSLVKKHYRLQFYMFAWTHVTLITVTQSHLVIQNLFEGMI  
WFLVPISSVICNDITAYLFGFFFGRTPLIKLSPKKTWEGFIGGFFSTVVFGFIAAYVLSK  
YQYFVCPVEYRSDVNSFVTECEPSELFQLQTYSLPPFLKAVLRQERVSLYPFQIHSIALS  
TFASLIGPFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVHVYITSFIRG  
PNPSKVLQQLLVLPQEQQLNIYKTLKTHLIEKGILQPTLV

>sp|O95674|CDS2\_HUMAN Phosphatidate cytidylyltransferase 2 OS=Homo sapiens GN=CDS2 PE=1  
SV=1

MTELRQRVAHEPVAPPEDKESESEAKVDGETASDESRAESAPLPVSADDTPEVLNRALS  
NLSSRWKNWWVRGILTLAMIAFFFIILYLGPMVLMIIVMCVQIKCFHEIITIGYNYHSY

DLPWFRTLSWYFLLCVNYFFYGETVTDYFFTLVQREEPLRILSKYHRFISFTLYLIGFCM  
FVLSLVKKHYRLQFYMGWTHVTLLIVVTQSHLVIHNLFEGLMIWFIVPISCVICNDIMAY  
MFGFFFGRTPLIKLSPKKTWEGFIGGFFATVVFGLLLSYMSGYRCFVCPVEYNNDTNSF  
TVDCEPSDLFRLQEYNIPGVIQSVIGWKTVMYPFQIHSIALSTFASLIGPFGGFFASGF  
KRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVNVIASFIRGPNPSKLIQQFLTLPDQ  
QLHIFNLTLSHLIDKGMTSTTEDE

>sp|Q15517|CDSN\_HUMAN Corneodesmosin OS=Homo sapiens GN=CDSN PE=1 SV=3

MGSSRAPWMGRVGGHGMALLLAGLLPGTLAKSIGTFSDPCKDPTRITSPNDPCLTGKG  
DSSGFSYSGSSSSGSSISSARSSGGSSGSSGSSIAQGSAGSFKPGTGYSQVSYSSG  
SGSSLQGASGSSQLGSSSSHSGNSGSHGSSSSSHSSSSSFQFSSSSFQVGNLSALPTND  
NSYRGILNPSQPGQSSSSQTSVSSSGQSVSSNQRPCSSDIPDPCSGGPIVSHSGPYI  
PSSHVSVGGQRPVVVVVDQHSGAPGVVQGPSCNGGLPGKPCPPITSDKSYGGYEVVG  
GSSDSYLVPGMTYSKGIYPVGYFTKENPVKGSFVPSFAAGPPISEGKYFSSNPIIPSQ  
SAASSAIAFAQPVGTGGVQLCGGGTSGKGPCSPSSSRVPSSSISSSSGSPYHPCGSASQ  
SPCSPPGTGSFSSSSSSQSSGKIILQPCGSKSSSSGHPCMSVSSLTLTGPDGSPHPDPS  
AGAKPCGSSSAGKIPCRSIRDILAQVKPLGPQLADPEVFLPQGELLDSP

>sp|Q9H211|CDT1\_HUMAN DNA replication factor Cdt1 OS=Homo sapiens GN=CDT1 PE=1 SV=3

MEQRRVTDFARRRPGPPRIAPPKLACRTPSPARPALRAPASATSGSRKRARPPAAPGRD  
QARPPARRRLRLSVDEVSSPTPEAPDIPACPSPGQKIKKSTPAAGQPPHLTSAQDQDTI  
SELASCLQRARELGARVRALKASQDAGESCTPEAEGRPEEPCGEKAPAYQRFHALAQP  
LPGLVLPYKYQVLAEMFRSMDTIVGMLHNRSETPTFAKVQRGVQDMMRRRFEECNVQGIK  
TVYPASYRFRQERSVPTFKDGTTRSDYQLTIEPLLEQEQADGAAPQLTASRLQRRQIFSQ  
KLVEHVKEHHKAFLASLSPAMVVPEDQLTRWHPRFNVDEVPDIEPAALPQPPEKLT  
QEVLARARNLISPRMEKALSQALRLSAAPSSPGSPRALPATPPATPPAASPSALKGV  
SQQDLLERIRAKEAQQLAQMTRCPEQEQLRLERLPELARVLSVVFVSERKPA  
LSMEVACARMVGCCTIMSPGEMEKHLLLSSELLPDWLSLHRIRTDTYVKLDAADLA  
HITARLAHQTRAEEGL

>sp|P47902|CDX1\_HUMAN Homeobox protein CDX-1 OS=Homo sapiens GN=CDX1 PE=1 SV=2

MYVGYVLDDKDSVPYGPAPASLGLGPQAYGPPAPPPAPPQYPDFSSYSHVEPAPAPPTA  
WGAPFPAPKDDWAAAYGPGPAAPAASPASLAFGPPPDFSPVPAPPGPGGLLAQPLGGPG  
TPSSPGAQRPTPYEWMRRSVAAGGGGSGKTRTKDKYRVVYTDHQRLELEKEFHYSRYIT  
IRRKSELANLGLTERQVKIWFQNRRAKERKVNKKKQQQQPPQPPMAHDITATPAGPSL  
GGLCPSNTSLLATSSPMPVKEEFLP

>sp|Q99626|CDX2\_HUMAN Homeobox protein CDX-2 OS=Homo sapiens GN=CDX2 PE=2 SV=3

MYVSYLLDDKDVSMYPSSVRHSGGLNLAPQNFVSPQYPDYGGYHVAANLDSAQS  
PGPSWPAAYGAPLREDWNGYAPGGAANAVAHGLNGGSPAAAMGYSSPADYHPHHHPH  
HHPHHPAAAPSCASGLLQTLNPGPPGPAATAAAEQSPGGQRRNLCEWMRKPAAQSLGSQ  
VKTRTKDKYRVVYTDHQRLELEKEFHYSRYITIRKAELATLGLSERQVKIWFQNRRAK  
ERKINKKKLQQQQQQPPPPPPPPPPPPQPGPLRSVPEPLSPVSSLQASVPGSVPGVL  
GPTGGVLNPTVTQ

>sp|Q6UWT4|CE046\_HUMAN Uncharacterized protein C5orf46 OS=Homo sapiens GN=C5orf46 PE=3 SV=2

MAVSVLRLTVVLGLLVFLTCYADKPKDPDDKPDSDGKDPKPDFPKFLSLLGTEIIENA  
VEFILRMSRSTGFMEDDNEGHSSK

>sp|A4QMS7|CE049\_HUMAN Uncharacterized protein C5orf49 OS=Homo sapiens GN=C5orf49 PE=2 SV=1

MEDDEEETTASTLRGKPRPPVSAQSAFSYIPRRLDPKEHSYYYRPARTGIISLYDCIF  
KRRLDYDQKLHRDDREHAKSLGLHVNEEQERPVGVLTSVVYGKRINQPIEPLNRDFGRA  
NHVQADFYRKNDIPSLKEPGFGHIAPS

>sp|A6NGY3|CE052\_HUMAN Uncharacterized protein C5orf52 OS=Homo sapiens GN=C5orf52 PE=2 SV=2

MTQPTRPSVTCDQGSSTIGGTAAQATTSSSATSGSNYQRDLGRRPEIGVGGQPQICFPR  
PRSAQQPVLFSLMNSSEAMKKTLPKSHLSRVIIHDNRITQRIYEMEVSALERTKKKISH  
YYEHLKKKFMTEQLRKLGRWREESVNSNRYLTFGIPPPV

>sp|A6NFR6|CE060\_HUMAN Putative uncharacterized protein C5orf60 OS=Homo sapiens GN=C5orf60 PE=1 SV=2

MPRAQLPEDSSAVDMDILFPLDSVIGTELCPSPIPQIIHFVLFVVFSLVILIIILRLYIPR  
EPSSVPPREEDSENDQAEVGEWLRIIGNKYITLKYRILLKELENLEIYTFLSKKCLKKLS  
REGSSHHLPRQVRPGPVYKAPARNHRPRGGRGKASPTSFHVSPRAPLAPLASMPSSVPK  
TSVESLGSPSSLSSSKPREPLCPLKHPHQPPASTLSPNPTSSTESLGYLSSLSSSQPPE  
PLRPLKHPSHKPRGRSLPRRRNPGVWSWSDSMQADSETDTIICPMCKAPERSCPHTWWVP  
SSPRVIRGVGRCDPNLGLSWRQEAAARAWCHCTSSQFPFKHPNLPTHLPKASF

>sp|Q15744|CEBPE\_HUMAN CCAAT/enhancer-binding protein epsilon OS=Homo sapiens GN=CEBPE PE=1 SV=2

MSHGTYYECEPRGGQQPLEFSGGRAGPGELGDMCEHEASIDLSAYIESGEEQLLSDLFAV  
KPAPEARGLKGPCTPAFPHYLPDPRPFAYPPHTFGPDRKALGPGIYSSPGSYDPRAVAV  
KEEPRGPEGSRAARGSYNPLQYQVAHCGQTAMHLPPTLAAPGQPLRVLKAPLATAAPPC  
SPLLKAPSPAGPLHKGKKAVNKDSLEYRLRRERNNIIVRKSRLKAKRRILETQQKVLEYM  
AENERLRSRVEQLTQELDTLRNLFRQIPEAANLIKVGCGCS

>sp|Q8N0S6|CENPL\_HUMAN Centromere protein L OS=Homo sapiens GN=CENPL PE=1 SV=2

MDSYSAPESTPSASSRPEDYFIGATPLQKRLESVRKQSSFILTPPRRKIPQCSQLQEDVD  
PQKVAFLHLHKQWTLTSLTPLYKFSYNSLKEYSRLNNAFIVAEEKQKGLAVEVGEDFNKVI  
FSTLLGMKGTQRDPEAFVLVQIVSKSQLPSENREGKVLWTGWFCVFGDSLLETVSEDFTC  
LPLFLANGAESNTAII GTWFQKTFDCYFSLAINAFNLSWMAAMWTACKMDHYVATTEFL  
WSVPCSPQSLDISFAIHPEDAKALWDSVHKTPGEVTQEEVDLFMDCLYSHFHRHFKIHLS  
ATRLVRVSTSVASAHTDGKIKILCHKYLIGVLAYLTELAIFQIE

>sp|Q6IPU0|CENPP\_HUMAN Centromere protein P OS=Homo sapiens GN=CENPP PE=1 SV=1

MDAELAEVRALQAEIAALRRACEDPPAPWEEKSRVQKSFQAIHQFNLEGWKSCKDLKNQL  
GHLESELSFLSTLTGINIRNHSKQTEDLTSTEMTEKSIRKVLQRHRLSGNCHMVTQLEF  
QILEIQNKERLSSAVTDLNIIMEPTCESELSEFVSRAEERKDLFMFFRSLHFFVEWFEYR  
KRTFKHLKEKYPDAVYLSEGPSSCSMGIRSASRPGFELVIVWRIQIDEDGKVFPKLDLLT  
KVPQRALELDKNRAIETAPLSFRTLVGLLGIEAALESILKSLCAEENN

>sp|A8MT69|CENPX\_HUMAN Centromere protein X OS=Homo sapiens GN=STRA13 PE=1 SV=1

MEGAGAGSGFRKELVSRLLHLHFKDDKTKVSGDALQLMVELLKVFVVEAAVRGVRQAQAE  
DALRVDVDQLEKVLPLQLLDF

>sp|Q9P209|CEP72\_HUMAN Centrosomal protein of 72 kDa OS=Homo sapiens GN=CEP72 PE=1 SV=2

MARAGPRLVLSEEAVRAKSLGPHRDLAELQSL SIPGTYQEKITHLGHSLSLTGLKSLD  
LSRNSLVSLGIIQYLTALESNLNLYNCISSLAEVFRLHALTELVDVDFRLNPVVKVEPDY

RLFVHLLPKLQQLDDRPVRASERKASRLHFASEDSLDSKESVPASLKEGRPHHPRAKCT  
EALAKQSLVMDADDEAVLNLI AECEWDLGRPPGSTSFSQKGREADSRGSQESRHLLSPQL  
VQYQCGDSGKQGRETRRSSCRGCCLEKMPWSQLCGELPLYGAPEASRAPRPHTYFTPH  
PDSMDTEDSASSQKLDLSGEMVPGPLPAPGKCRKRRMPVGRFQTFSDQEGLCPERTHGS  
SVPKESLSRQDSSESNRGRTLQPEASETEEQRSRGVTDTREPSPGSHSALPGKKTALQA  
ALLETLLDLVDRSWGGRSLHSNEAFLAQARHILSSVEEFTAAQDSSAMVGEDVGS�ALE  
SKSLQSRLAEQQQHAREMSEVTAELHHTHKELDDLRLQHLDKSLEENSRLKSLLSMKKE  
VKSADTAATLNLQIAGLQTSVKRLCGEIVELKQHLEHYDKIQELTQMLQESHSSLVSTNE  
HLLQELSQVRAQHRAEVEQMHWSYQELKKTALFPHSSASHGGCQAC

>sp|Q6P2H3|CEP85\_HUMAN Centrosomal protein of 85 kDa OS=Homo sapiens GN=CEP85 PE=1 SV=1

MAMQEKYPTEGISHVTSPSSDVIQKSSSLGTEWQTPVISEPFRSRFRCSSVADSGDTAI  
GTSCSDIAEDFCSSSGSPFPQPIKSHVTIPTAHVMPSTLTGTPAKPNSTPVGPSKKLPL  
SGLAESVGMTRNGDLGAMKHSPGLSRDLMYFSGATGENGIEQSWFPAVGHERQEEARKFD  
IPSMESTLNLQSAMMETLYSDPHHRVRFHNPRTSTSKELYRVLPEAKKAPGSGAVFERNGP  
HSNSSGVLPLGLQAPGLSKPLPSQVWQSPDTPHWPREQSCELSTCRQQLLIRLQMEQM  
QLQNGAICHHPAAFGPSLPILPAQWISILNSNEHLLKEKELLIDKQRKHISQLEQKVRE  
SELQVHSALLGRPAPFGDVCLLRLQELQRENTFLRAQFAKTEALSREKIDLEKKLSASE  
VEVQLIRESLKVALQKHSEEVKKQEERVKGGRDKHNNLKKKCQKESEQNREKQQRIETLE  
RYLADLPTLEDHQKQSQQLKDELKSTELQEKVTELESLEETQAICREKEIQLESRLQR  
EAEFSSAGHSLQDKQSVETSGEGPEVEMESWQKRYDSLQKIVEKQQQKMDQLRSQVQSL  
EQEVAQEEGTSQALREEAQRDSALQQLRTAVKELSVQNQDLIEKNLTLQEHLRQAQPGS  
PPSPDTAQLALELHQELASCLQDLQAVCSIVTQRAQGHDPNLSLLGIHSAQHPETQLDL  
QKPDVIRKLEEVQQLRRDIEDLRTTMSDRYAQDMGENCVTQ

>sp|Q9HA82|CERS4\_HUMAN Ceramide synthase 4 OS=Homo sapiens GN=CERS4 PE=1 SV=2

MLSSFNEWFWQDRFWLPNVTWTELEDGRVYHPQDLLAALPLALVLLAMRLAFERFI  
GLPLSRWLGVDRQTRRQVKPNATLEKHFLTEGHRPKPEQLSLLAAQCGLTLQQTQRWFRR  
RRNQDRPQLTKKFCEASWRFLFYLSFVGGLSVLYHESWLWAPVMCWDRYPNQTLKPSLY  
WWYLLELGFYLSLLIRLPFDVKRDKFKEQVIHHFVAVILMTFSYSANLLRIGSLVLLHLD  
SSDYLLLEACKMVNYMQYQQVCDALFLIFSFFVYTRLVLFPTQILYTTYYESISNRGPFF  
GYYFFNGLMLLQLLHVFWSCILRLYSFMKKGQMEKDIRSDVEESDSSEAAAAQEPL  
QLKNGAAGGPRPAPTGDGPRSRVAGRLTNRHTTAT

>sp|Q8N5B7|CERS5\_HUMAN Ceramide synthase 5 OS=Homo sapiens GN=CERS5 PE=2 SV=1

MATAAQGPLSLLWGWLWSEFRLPENVSADLEGPADGYGPRGRHILSVFPLAAGIFFV  
RLLFERFIAKPCALCIGIEDSGPYQAQPNAILKVFISITKYPDKKRLEGLSKQLDWNVR  
KIQCWFRHRRNQDKPPTLTKFCESMWRFTFYLCIFCYGIRFLWSSPWFWDIRQCWHNYPF  
QPLSSGLYHYIIMELAFYWSLMFSQFTDIKRKDFLIMFVHHLVTIGLISFSYINNMVRVG  
TLIMCLHDVSDFLLEAAKLANYAKYQRLCDTLFVIFSAVFMVTRLGIYPFWILNTTLFES  
WEIIGPYASWWLLNGLLLTLQLLHVIWSYLIARIALKALIRGKVSDDRSDVESSEED  
VTTCTKSPCDSSSNGANRVNGHMGGSYWAE

>sp|Q6ZMG9|CERS6\_HUMAN Ceramide synthase 6 OS=Homo sapiens GN=CERS6 PE=1 SV=1

MAGILAWFWRNFWLPHNVTWADLKNTEEATFPQAEDLYAFPLAFCIFMVRLIFERFVA  
KPCIALNIQANGPQIAPPNAILEKVFTAITKHPDEKRLEGLSKQLDWDVRSIQRWFRQR  
RNQEKPSLTRFCESMWRFsflyVFTYGVRFLLKTPWLWNRHCWYNYPYQPLTTDLHY  
YYILELSFYWSLMFSQFTDIKRKDFGIMFLHHLVSIFLITFSYVNNMARVGTVLCLHDS

ADALLEAAKMANYAKFQKMCDDLFFVMFAVVFITTRLGIFPLWVLNTTLFESWEIVGPYPS  
WWVFNLLLLLVQGLNCFWSYLIVKIAACKAVSRGKVSDDRSDIESSSDEEDSEPPGKNPH  
TATTNGTSGTNGYLLTGSCSMDD

>sp|Q9UKY3|CES1P\_HUMAN Putative inactive carboxylesterase 4 OS=Homo sapiens GN=CES1P1  
PE=5 SV=2

MWLPALVLATLAASAAWAGHLSSPPLVDTLHGKVLGKFVSLEGFAQPVAVFLGIPFAKPP  
LGPLRFTLPQPAEPWNFVKNATSYPPMFTQDPKAGQLISELFTNRKENIPLKLSLSEDCLYL  
NIYTPADLTCKNRLPVMVWIHGGGLMVGAASTYDGLALAAHENVVVVTIQYRLGIWGFFS  
TGDEHSPGNWGHLDQLAALHWVQDNIA SFGGNPGSVTIFGGSVGGESVSVLVLSPLAKNL  
FHRAISESGVALTSVLVKKGDVKPLAEVGLRLVRLRLDTPTSALCS

>sp|O15182|CETN3\_HUMAN Centrin-3 OS=Homo sapiens GN=CETN3 PE=1 SV=2

MSLALRSELVVDKTKRKKRRELSEEQKQEIKDAPFELFDTDKDEAIDYHELKVAMRALGFD  
VKKADVLKILKDYDREATGKITFEDFNEVVTDWILERDPHEEILKAKFLFDDDDSGKISL  
RNLRRVARELGENMSDEELRAMIEEFDKDGDGEINQEEFIAIMTGDI

>sp|Q7Z4R8|CF120\_HUMAN UPF0669 protein C6orf120 OS=Homo sapiens GN=C6orf120 PE=1 SV=1

MAAPRGRAAPWTTALLLLLASQVLSPGSCADEEEVPEEWVLLHVQGGIGAGNYSYLRN  
HEGKIVLRMRSLKGDADLYVSASSLHPSFDDYELQSATCGPDAVSIPAHRFPVIGVYG  
HPSHLESEFEMKVYDGTVEQHPFGEAAYPADGADAGQKHAGAPEDASQEEESVLWTILI  
SILKLVLEILF

>sp|Q5TEZ4|CF164\_HUMAN Putative uncharacterized protein encoded by LINC01590 OS=Homo  
sapiens GN=LINC01590 PE=5 SV=2

MSHLPAVSPVFFQLPAPHPPTVLRPQLGLHPNPECDREKMSVRDHDPEVLTRNSACKPRG  
QLSGHLLKPRAPLEAA

>sp|Q9POP8|CF203\_HUMAN Uncharacterized protein C6orf203 OS=Homo sapiens GN=C6orf203 PE=1  
SV=1

MAMASVKLLAGVLRKPDWIGLWGVLRGTPSSYKLCTSWNRYLYFSSTKLAPNYKTLFY  
NIFSLRPLGLLSPECIFPFSVRLKSNIRSTKSTKSLQKVDEEDSDEESHHEMSEQEE  
ELEDDPTVVKNYKLEKAVQSFYDVVLKTGLDIGRNKVEDAFYKGELRLNEEKLWKKSR  
TVKVGDTLLDIGEDKEAGTETVMRILLKKVFEEKTESEKYRVVLRWWSLKLPPKRMMSK

>sp|POC7V0|CF217\_HUMAN Putative uncharacterized protein encoded by LINC00271 OS=Homo  
sapiens GN=LINC00271 PE=5 SV=1

MLNSPGTRRPVKEAQKYGEDSKQSHSPGTPGRSSVTTLASALSDESSPDTPRRGPGR  
PSTPARAPATSAPMMYSRRGVRRTARPAGADTRSSANQLPQPSGACANADSAPPADVSAC  
LRRRSHGDRCVPRRRRPRPRASTAFFQEEGPCGACGALRPQAGASFRELRLPPPR  
PREREQSPPLGAAPSSALSHQGWKNTRCATRGLVNTLVNTGHFLYLQPPAPLIMPYLDDA  
EVPGNRRSHPSLSFSWLSKALYHVTFLRL

>sp|O95992|CH25H\_HUMAN Cholesterol 25-hydroxylase OS=Homo sapiens GN=CH25H PE=1 SV=1

MSCHNCSDPQVLCSSGQLFLQPLWDHLRSWEALLQSPFFPVIFSITTYVGFCLPFVVDI  
LCSWVPALRRYKIHPDFSPSAQQLPCLGQTLYQHVMFVFPVTLHWHARSALLPHEAPE  
LLLLLHHILFCLLLFDMEFFVWHLLHHKVPWLYRTFHKVHHQNSSSFALATQYMSVWELF  
SLGFFDMMNVTLLGCHPLTTLTFHVNIWLSVEDHSGYNFPWSTHRLVPFGWYGGVVHHD  
LHSHFNCNFAPYFTHWDKILGTLRTASVPAR

>sp|P10809|CH60\_HUMAN 60 kDa heat shock protein, mitochondrial OS=Homo sapiens GN=HSPD1  
PE=1 SV=2

MSNMEKHLFNLKFAAKELSRSAKKCDKEEKA EKAKIKKAIQKGNMEVARIHAENAIRQKN  
QAVNFLRMSARVDAVAARVQTAVTMGKVTKSMAGVVKSM DATLKT MNLEKISALMDKFEH  
QFETLDVQTQQMEDTMSSTTTLTPQNQVDMLLQEMADEAGLDLNMELPQGGTGSVGTSTV  
ASAEQDELSQLRLRLRDQV

>sp|Q9H444|CHM4B\_HUMAN Charged multivesicular body protein 4b OS=Homo sapiens GN=CHMP4B  
PE=1 SV=1

MSVFGKLFAGGGKAGKGGPTPQEAIQRLRDTEEMLSKKQEFLEKKIEQELTAAKKHGTK  
NKRAALQALKRKKRYEKQLAQIDGTLSTIEFQREALENANTNTEVLKNMGYAAKAMKAAH  
DNMDIDKVDELMQDIADQQELAAEISTAISKPVGFGEEFDEDELMAELEELEQEELDKNL  
LEISGPETVPLPNVPSIALPSKPAKKKEEEDDDMKELNAGSM

>sp|Q8WUX9|CHMP7\_HUMAN Charged multivesicular body protein 7 OS=Homo sapiens GN=CHMP7  
PE=1 SV=1

MWSPEREAEAPAGGDPAGLLPPEWEEDEERMSFLFSAFKRSREVNSTDWDSKMGFWAPLV  
LSHSRRQGQVRLRLRLDLQEAQKRGSVPLGLATVLQDLLRRGELQRESDFMASVDSSWIS  
WGVGVFLLKPLKWTLSNMLGDNKVPAAEVLVAVELLKEKAEVYRLYQNSPLSSHPVVAL  
SELSTLCANSCPDERTFYLVLLQLQKEKRVTVLEQNGEKIVKFARGPRAKVSPVNDVDVG  
VYQLMQSEQLLSRKVESLSQEAERCKEEARRACRAGKKQLALRSLKAKQRTKRIEALHA  
KLDTVQGILDRIYASQTDQMVFNAYQAGVGALKLSMKDVTVEKAESLVDQIQELCDTQDE  
VSQTLAGGVTNGLDFDSEEEKELDILLQDTTKEPLDLPDNPNRHFTNSVPNPRISDAE  
LEAELEKLSLSEGGVLPSSKSPKRQLEPTLKPL

>sp|O43745|CHP2\_HUMAN Calcineurin B homologous protein 2 OS=Homo sapiens GN=CHP2 PE=1  
SV=3

MGSRSSHA AVIPDGDSIRRETGFSQASLLRLHHRFRALDRNKKGYLSRMDLQQIGALAVN  
PLGDRIIESFFPDGSGQRVDFPGFVRVLAHFRPVEDEDTETQDPKKPEPLNSRRNKLHYAF  
QLYDLDRDGKISRHEMLQVLRMLMGVGVVTEEQLENIADRTVQEADEDGDGAVSFVEFTKS  
LEKMDVEQKMSIRILK

>sp|Q9NRG0|CHRC1\_HUMAN Chromatin accessibility complex protein 1 OS=Homo sapiens  
GN=CHRC1 PE=1 SV=1

MADVVGKDKGGEQRLISLPLSRIRVIMKSSPEVSSINQEALVLTAKATELFVQCLATYS  
YRHGSGKEKKVLTYSDLANTAQQSETFQFLADILPKKILASKYLKMLKEEKREDEENDN  
DNESDHDEADS

>sp|Q9UHD1|CHRD1\_HUMAN Cysteine and histidine-rich domain-containing protein 1 OS=Homo  
sapiens GN=CHORDC1 PE=1 SV=2

MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCT  
KGRHNSEKPPPEPVKPEVKTTEKKELCELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLEL  
KISASLKQALDKLSSGNEENKKEEDNDEIKIGTSCKNGGCSKTYQGLESLEEVCVYHS  
GVPIFHEGMKYWSCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGKKVPCRHWDHQTGGE  
VTISVYAKNSLPESLSEANSTLLNVHIVFEKEFEQNVKLWGVIDVKRSYVTMTATKI  
EITMRKAEPMQWASLELPAKKQEKQKDATTD

>sp|Q8NET6|CHSTD\_HUMAN Carbohydrate sulfotransferase 13 OS=Homo sapiens GN=CHST13 PE=1  
SV=1

MGRCCRRRVLAACLGAALLLCAAPRSLRPAFGNRLGSSWLGGKRSPLQKLYDLDDQ  
DPRSTLAKVHRQRDLLNSACSRHSRRQRLQPEDLRHVLVDDAHGLLYCYVPKVACTIONW  
KRVLLALSGQARGDPRAISAQEAHAPGRLPSLADFSPAENRRLRAYLAFLFVREPFERL  
ASAYRNKLARPYSAAFQRRYGARIVQRLRPALPDARARGHDVRF AEFLAYLLDPTRRE  
EPFNEHWEHALCHPCRLRYDVVGKFETLAEDAAVFLGLAGASDLSFPGPPRPRGAAAS  
RDLAARLFRDISPFYQRRLFDLYKMDFLFNYSAPSYLRLL



>sp|Q96MD7|C1085\_HUMAN Uncharacterized protein C9orf85 OS=Homo sapiens GN=C9orf85 PE=1 SV=1

MSSQKGNVARSRPQKHQNTFSFKNDKFDKSVQTKKINAKLHDGVCQRCKEVLEWRVKYSK  
YKPLSKPKKCVKCLQKTVKDSYHIMCRPCACELEVCAKCGKKEDIVPWSLPLLPRLECS  
GRILAHHNLRLPCSSDSPASASRVAGTTGAHHHAQLIFVFLVEMGFHYVGQAGLELLTS

>sp|C9J069|C1172\_HUMAN Uncharacterized protein C9orf172 OS=Homo sapiens GN=C9orf172 PE=3 SV=1

MTRTDPPDLLVSTVYQDIKVATPGPASKCSPCERSVARPAEPAPFNKRHCRSFDLFLEALD  
GPAMETLPEPPPPESAVPRARTREAEPRRRARSKSAPRAPPGLTPAPASPPVLPRRGREAA  
QRAARAEASPRREPAYPALRALANELHPKIKLPQRGGPGRVAPLCAAAGRCAPPEPPAGP  
APHVRCRLDIKPDDAVLQHATRGSRSCGPTEAAHWARPAPQFHGLTVPGPRHMAISRTPT  
PSDSYCADPRAFYCDGPLGPRDYAERRSLPFTTPPGPTQFFYTEEPQGFGRGSFAASPGP  
TFDAYYP RPYPSEELSGPSPRRMGYYAGEVRTFPIQEPPSRSYGEAPRAYGLPYGPRY  
VPEEPAHSTARPFYTEDFGRYRERDVLARTYHPRSSPAWADWGPRPYRTLQVVPSPDP  
DPLLASWHGGTGTSPRLATDSRHYSRSWDNILAPGPRREDPLGRGRSYENLLGREVREP  
RGVSPEGRRPVVVNLSTSPRRYAALSLSETSLTEKGRAGEGLGRNWYVTPETITDNDL  
RATERPSARAWELPGGRTRPPPHAAPDGPTSGRQRSLEQLDELITDLVIDSRPTAGQASE  
PAADCLGPQLRRLDLSRPAAGSAPALAPPRSPASAGSAEPAAPGEAADASPEPSADED  
DLMTCSNARCRRTETMFNACL YFKSCHSCYTYCSRLCRREDWDAHKARCVYGRVGSVCR  
HVLQFCRDSGPVHRAFSRIARVGFSLRGRGVFLFGFSPSGSADNFLRFGLEGLLSPTYL  
SLRELATHAAPLGSYARELAAAGRLYEPAEFCLLSVSAVGPGTAPPGTALPAPAPRSH  
GPTVRKF AKVALAAGSPARPPPARSREPD METLILTPPPGTAGLDQDGEAGRRAREVAFI  
HIQRELRLRGVFLRHEFPRVYEQLCEFVEANRRFTPTTIYPTDRRTGRPFMCMIMAASEP  
RALDWVASANLLDDIM

>sp|076071|CIA01\_HUMAN Probable cytosolic iron-sulfur protein assembly protein CIA01 OS=Homo sapiens GN=CIA01 PE=1 SV=1

MKDSLVLGRVPAHPDSRCWFLAWNPA GTLLASCGGDRRIRIWGTEGDSWICKSVLSEGH  
QRTVRKVAWSPCGNYLASASFDATTCIWKKNQDDFECVTTLEGHENEVKSVAWAPSGNLL  
ATCSRDKSVVWVEWDEEDEYECVSVLNSHTQDVKHVVWHPSQELLASASYDDTVKLYREE  
EDDWVCCATLEGHESTVWSLAFDP SGQRLASCSDDRTVRIWRQYLPGNEQGVACSGSDPS  
WKCICTLSG FHSRTIYDIAWCQLTGALATACGDDAIRVFQEDPNSDPQQPTFSLTAHLHQ  
AHSQDVNCVAWNPKEPGLLASCSDDGEVAFWKYQRPEGL

>sp|Q99828|CIB1\_HUMAN Calcium and integrin-binding protein 1 OS=Homo sapiens GN=CIB1 PE=1 SV=4

MGGSGSRLSKELLA EYQDLTFLTKQEILLAHRRFCCELLPQEQRSVESLRAQVPFEQILS  
LPELKANPFKERICRVFSTSPAKDSL SFEDFLDLLSVFSDTATPDIKSHYAFRIFDFDDD  
GTLNREDLSRLVNCLTGEGEDTRLSASEMKQLIDNILEESDIDRDGTINLSEFQHVISRS  
PDFASSFKIVL

>sp|075956|CDK2\_HUMAN Cyclin-dependent kinase 2-associated protein 2 OS=Homo sapiens GN=CDK2AP2 PE=1 SV=1

MSYKPIAPAPSSTPGSSTPGPGTPVPTGSPVSPSGSVPGAGAPFRPLFNDFGPPSMGYVQ  
AMKPPGAQGSQSTYTDLLSVIEEMGKEIRPTYAGSKSAMERLKRGI IHARALVRECLAET  
ERNART

>sp|Q00532|CDKL1\_HUMAN Cyclin-dependent kinase-like 1 OS=Homo sapiens GN=CDKL1 PE=1 SV=5

MEKYEKIGKIGEGSYGVVFKCRNRDTGQIVAIKKFLESEDDPVIKKIALREIRMLKQLKH  
PNLVNLLVFRRRKRLHLVFEYCDHTVLHELDTRYQRGVPEHLVKSITWQTLQAVNFCHKH  
NCIHRDVKPENILITKHSVIKLCDFGFARLLAGPSDYTYDVATRWRYSPELLVGDTQYG  
PPVDVWAIGCVFAELLSGVPLWPGKSDVDQLYLIRKTLGDLIPRHQQVFSTNQYFSGVKI  
PDPEDMEPLELKFPNISYPALGLLKGCLHMDPTQRLTCEQLLHHPYFENIREIEDLAKEH  
NKPTRKTLRKSRRHHCFETETSKLQYLPQLTGSSILPALDNKKYYCDTKKLNRYRFPNI

>sp|Q5MAI5|CDKL4\_HUMAN Cyclin-dependent kinase-like 4 OS=Homo sapiens GN=CDKL4 PE=2 SV=2

MEKYEKLAKTGECSYGVVFKCRNKTSGQVAVKKFVESEDDPVVKKIALREIRMLKQLKH  
PNLVNLLIEVFRRRKRMHLVFEYCDHTLLNELERNPNGVADGVIKSVLWQTLQALNFCHIH  
NCIHRDIKPENILITKGGIIKICDFGFAQILIPGDAYTDYVATRWRAPPELLVGDTQYGS  
SVDIWAIGCVFAELLTGQPLWPGKSDVDQLYLIIRTLGKLIIPRHQSIFKSNGFFHGISIP  
EPEDMETLEEKFSVDHPVALNFMKGCLKMNPDRLTCSQLESYFDSFQEAQIKRKARN  
EGRNRRRQQAPKSAFPRLFLKTKICQVQRNETQTSQNQILPNGPILQNSMVTVMTNINS  
AVYQVTVLHLLSENFVKS

>sp|P42772|CDN2B\_HUMAN Cyclin-dependent kinase 4 inhibitor B OS=Homo sapiens GN=CDKN2B  
PE=1 SV=1

MREENKGMPSGGSDEGLASAAARGLVEKVRQLEAGADPNGVNRFGRRRAIQVMMGSAR  
VAELLLLHGAEPNCADPATLTRPVHDAAREGFDTLVVLHRAGARLDVRDAWGRLPVDLA  
EERGHDRVAGYLRTATGD

>sp|Q16878|CD01\_HUMAN Cysteine dioxygenase type 1 OS=Homo sapiens GN=CD01 PE=1 SV=2

MEQTEVLKPRTLADLIRILHQLFAGDEVNVEEVQAIMEAYESDPTWAMYAKFDQYRYTR  
NLVDQNGKFNLMILCWGEGHGSSIHDTNSHCFLKMLQGNLKETLFAWPKKSNEMVKK  
SERVLRENQAYINDSIGLHRVENISHTEPAVSLHLYSPPFDTCFAFDQRTGHKNKVTMT  
FHSKFGIRTPNATSGSLENN

>sp|Q4KMG0|CDON\_HUMAN Cell adhesion molecule-related/down-regulated by oncogenes OS=Homo  
sapiens GN=CDON PE=1 SV=2

MHPDLGPLCTLLYVTLTILCSSVSSDLAPYFTSEPLSAVQKLGGPVVLHCSAQPVTRIS  
WLHNGKTLDGNEHVKIHQGTLTILSLNSSLLGYYQCLANNSIGAIVSGPATVSVAVLGD  
FGSSTKHVITAEKSAGFIGCRVPESNPKADEVRYKIRGKWLEHSTENYLILPSGNLQILN  
VSLEDKGSYKCAAYNPVTHQLKVEPIGRKLLVSRPSSDDVHILHPTHSQLAVLSRSPVT  
LECVVSGVPAPQVYWLKDGQDIAPGSNWRRLYSHLATDSVDPADSGNYSCMAGNKSQDVK  
YVTYMVNVLEHASISKGLQDQIVSLGATVHFCTDVHGPNPACTWFHNAQPIHPSARHLT  
AGNGLKISGVTVEDVGMVQCVADNGIGFMHSTGRLEIENDGGFKPVIITAPVSAKVADGD  
FVTLSNASGLPVPVIRWYDSHGLITSHPSQVLRKSKRSQLSRPEGLNLEPVYFVLSQA  
GASSLHIQAVTQEHAGKYICEAANEHGTTQAEASLMVVPFETNTKAETVTLPDAAQNDDR  
SKRDGSETGLSSFPVKVHPSAVESAPEKNASGISVPDAPILSPPQTHPTDYNLVWRA  
GKDGGPLINAYFVKYRKLDGVMGLGSWHTVRVPGSENLHLAELEPSSLYEVLVARS  
AGEGQPAMLTFRTSKEKTASSKNTQASSPPVGIPKYPVVSEAANNFVGVLTDSSRHSGV  
PEAPDRPTISTASETSVYVTWIPRANGGSPITAFKVEYKMRSTSNWLVAEDIPPSKLSV  
EVRSLPEGSTYKFRVIAINHYGESFRSSASRPYQVVGFPNRFSSRPITGPHIAYTEAVSD  
TQIMLKWTYIPSSNNNTPIQGFYIYRPTDSNDSDYKRDVVEGSKQWHMIGHLQPETSY  
DIKMQCFNEGGESEFSNVMICETKVVRVPGASEYPVKDLSTPPNSLGSNGVGPATSPAR  
SSDMLYLIVGCVLGMVVLILMVFIAMCLWKNRQQNTIQKYDPPGYLYQGSDMNGQMVDT  
TLSGASQINGNVHGGFLTNGGLSSGYSHLHHKVPNAVNGIVNGSLNGGLYSGHSNSLTRT

HVDFEHPHHLVNGGMYTAVPQIDPLECVNCRNCRNNRCFTKTNSTFSSSPPPVPVVA  
PYPQDGLEMKPLSHVKVPVCLTSAVPDCGQLPEESVKDNVEPVPTQRTCCQDIVNDVSSD  
GSEDPAEFSRQGEGMINLRIPDHLQLAKSCVWEGDSCAHSETEINIVSWNALILPPVPEG  
CAEKTWSPPGIPLDSPTEVLQQPRET

>sp|Q6NVV7|CDPF1\_HUMAN Cysteine-rich DPF motif domain-containing protein 1 OS=Homo sapiens GN=CDPF1 PE=1 SV=1

MASHVECRPLGVFECELCTLTAPYSYVGQKPPNTQSMVLLEESYVMKDPFTSDKDRFLVL  
GSCCSLCSRLVCVGPECSLFYSKRFLPCVRENINAFQEIQRDLEKRKAPSKRTPSQPG  
SRT

>sp|Q86X02|CDR2L\_HUMAN Cerebellar degeneration-related protein 2-like OS=Homo sapiens GN=CDR2L PE=1 SV=2

MRRAAGMEDFSAAAAEESWYDQDLEQDLHLAAELGKTLERNKELEGSQQMYSTNEEQV  
QEIEYLTQDLTLRHVNEQHAKVYEQLDLTARDLELTNHLVLESKAAQKKIHGLTETIE  
RLQAQVEELQAQVEQLRGLEQLRVLREKRERRRTIHTFPCLKELCTSPRCKDAFRLHSS  
LELGRPLEQENERLQTLVGALRSQVSQERQRKERAEREYTAVLQEYSELERQLCEMEAC  
RLRVQELEAELELQMQKQAKTYLLGPDHLAEALLAPLTQAPEADDPQPGRGDDLGAQD  
GVSSPAASPGHVVRKSCSDTALNAIVAKDPASRHAGNLTLSHANSVRKRGMSILREVDEQY  
HALLEKYEELLSKCRQHAGVRHAGVQTSRPISRDSSWRDLRGGEQGGEVKAGEKSLSQ  
HVEAVDKRLEQSQPEYKALFKEIFSRIQKTKADINATKVKTHSSK

>sp|O95170|CDRT1\_HUMAN CMT1A duplicated region transcript 1 protein OS=Homo sapiens GN=CDRT1 PE=2 SV=3

MENLESRLKNAPYFRCEKGTDSIPLCRKCETRVLAWKIFSTKEWFCRINDISQRRFLVGI  
LKQLNSLYLLHYFQNILQTTQGKDFIYNRSRIDLSKKEGKVVKSSLNQLDKTVEQKMKE  
ILYWFANSTQWTKANYTLTLLQMCNPKLLLTAANVIRVFLREENNISGLNQDITDVCFS  
PEKDHSSKSATSQVYWTAKTQHTSLPLSKAPENEHFLGAASNPEEPWRNSLRCISEMNRL  
FSGKADITKPGYDPCNLLVDLDDIRDLSGFSKYRDFIRYLPILHSKYILRMLDRHTLNK  
CASVSQHWAAQAQVKMDLSAHGFIQNQITFLQGSYTRGIDPNYANKVSI PVPKMVDGK  
SMRVKHPKWLRTKNEYNLWTAYQNEETQQVLMERNVFCGTYNVRILSDTWDQNRVIHY  
SGGDLIAVSSNRKIHLDDIIQVKAIPVEFRGHAGSVRALFLCEEENFLLSGSYDLSIRYW  
DLKSGVCTRIFGGHQGTITCMDLCKNRLVSGGRDCQVKVWDVDTGKCLKTFRHKDPILAT  
RINDTYIVSSCERGLVKVWHIAMAQLVKTLSGHEGAVKCLFFDQWHLLSGSTDGLVMAWS  
MVGKYERCLMAFKHPKEVLDSLLFLRVISACADGKIRIYNFFNGNCMKVIKANGRGDPV  
LSFFIQGNRISVCHISTFAKRINVGWNGIEPSATAQGGNASLTECAHVRLHIAGHLPASR  
LPVAAVQPMTGMAPTTAPTHVLAMLILFSGV

>sp|Q96T59|CDRTF\_HUMAN CMT1A duplicated region transcript 15 protein OS=Homo sapiens GN=CDRT15 PE=2 SV=1

MFSCCFPTSRGCCFRNGGSESLFRRRCRRRLIPHPRRLSPVIRRIQVPQDSLQALAGQA  
TPEIPLGLQLHTVLVQEIQELIEAQTLAGPCAÉVRALPAPAAEPEPAWEEAPPERALEL  
EGAPAKDQTNEELPEITEVPESIKRRLGRRVPAATPAPRGNLLQAWMRVHSWASRLFAP  
NVLPGTGP

>sp|Q9UKY7|CDV3\_HUMAN Protein CDV3 homolog OS=Homo sapiens GN=CDV3 PE=1 SV=1

MAETEERSLDNFFAKRDKKKKKERSNRAASAAGAAGSAGGSSGAAGAAGGGAGAGTRPGD  
GGTASAGAAGPGAATKAVTKDEDEWKELEQKEVDYSGLRVQAMQISSEKEEDDNEKRQDP  
GDNWEEGGGGGGMEKSSGPWNKTAPVQAPPAPVIVTETPEPAMTSGVYRPPGARLTTTR

KTPQGPEIYSDTQFPSLQSTAKHVESRKDKEMEKSFVVRHKNRGRDEVSKNQALKLQL  
DNQYAVLENQKSSHSQYN

>sp|Q8N8U2|CDYL2\_HUMAN Chromodomain Y-like protein 2 OS=Homo sapiens GN=CDYL2 PE=1 SV=2

MASGDLYEVERIVDKRKNKKGWEYLIRWKGYGSTEDTWEPEHLLHCEEFIDEFNGLHM  
SKDKRIKSGKQSSTSLLRDSRGPSVEKLSHRPSDPGKSGKGTSHKRKRINPPLAKPKKGY  
SGKPSSGGDRATKTVSYRTTPSGLQIMPLKKSQNGMENG DAGSEKDERHFGNGSHQPGLD  
LNDHVGEQDMGECDVNHATLAENGLGSALTNGGLNLHSPVVRKLEAEKDYVFDKRLRYSV  
RQNESNCRFRDIVRKEEGFTHILLSSQTSNNALTP EIMKEVRRALCNAATDDSKLLLL  
SAVGSVFCGLDYSYLIGRLSSDRRKESTRIAEAIRDFVKAFIQFKKPIVVAINGPALGL  
GASILPLCDIVWASEKAWFQTPYATIRLTPAGCSSYTFPQILGVALANEMLFCGRKLT AQ  
EACSRGLVSQVFWPTFSQEVMLRVKEMASCSAVVLEESKCLVRSFLKSVLEDVNEKECL  
MLKQLWSSSKGLDSLFSYLQDKIYEV

>sp|Q96GV9|CE030\_HUMAN UNC119-binding protein C5orf30 OS=Homo sapiens GN=C5orf30 PE=1  
SV=1

MEVDINGESRSTLTTLFPFGAEANSPGKAEAEKPRCSSTPCSPMRRTVSGYQILHMDSNY  
LVGFTTGEELLKLAQKCTGGEESKAEAMPSLRSKQLDAGLARSSRLYKTRSRYYQPYEIP  
AVNGRRRRRMPSSGDKCTKSLPYEPYKALHGPLPLCLLKGRAHKSGLDYLNLDKMIKEP  
ADTEVLQYQLQHLTLRGDRVFARNNT

>sp|Q9H799|CE042\_HUMAN Protein JBTS17 OS=Homo sapiens GN=C5orf42 PE=1 SV=4

MEIRLEILTSTGIKQKPPWPRVSWLGKEKEAVFLDDKFINEINLLSGIKKKIPSLQPF  
LKDIVILTTSSNDAWLAGVLTGELFLWNKDQDCLKTIPITEPKEMIKATVASSLRLYL  
YVSGNGKRIVLITPSGCIFLWEYLELKNILSSKSLSLAGRWSQVPIEEAVLLPSTEDKEA  
VNAVFIKNEFLGDCCLCSFTFYSGECKLTFLAIRWHENVFTSVRSLPYHVHWAQQDCH  
LCSLIPKCESVKSREGALISAFSRDGLTAVTLNQKDPKATQVLFINTLNFVTLGSLKGC  
SNKSPVVPATLIRSYWVGDISWTHDSLFLACMLKRGSLVLLTCQGELLTLITFGCSIEFG  
PAEFIPLHPLITYRPQQFTFQDSNNSVDSSASDSDPMRQRF SIKAHSRPLPYLVISDGYMV  
TTLRFLDSLSPSVHMRSLLDSTQRLEKIYQSVILSKPKGKGLNLRSLNSLRSSLLEHQG  
NESSADFTVPKFLQAEETINENAADFQDFEAEETNEGRHFPDNLCPFWNKRDDVLCSSMK  
EGRLEFASMFDTIHAKDDSEETDRTITELHSIQKSLLAAWTIGISKTVTEKNMLNYIVV  
CITHFFYILQFIKCPFPKLDLVLSKSSRHNAWILCIFIQLFHQCLSIHYWDIRYKQDVGHL  
IKLTSNTVKLLLTQQQKQGLFSEKLLACFYLLKMVADNLNGVYILQPEVISASADGSKIT  
AQDSLVPVIFQMFQDSGFQKNWSNSFFKIHPQVVPVQQPGHRLILWRILYKKTLYWYQ  
AQLNRRVPEADSQLTEKMTHEASTVKSLLCHLQANLQSTGDCLNQTLELKSINGEECFLL  
GSYEKSVQLWKKALQEIEEKGGRRTYFLQIRYYLSLLYCHLYSYNLNDAQGLCDQLAREI  
LRWSQLPVKENKDFSGAAKSHFECGMVGGVHPEAAVRVVQSMARFMAAYFTNQQLCILPP  
HHVNVLPPLHIKTEQSFRLLIPLQHSKVASVVRDQNL SNVWTV EYALELLFIGGLVPEAVW  
LAYKLGDWKTSV SIGVAFQLFCKRDSNFMRSKKKSLNPLRMTPAQIFQEKLQCVLGQPA  
SLEAKNEMGSKYQFTDPIEEEDANLLFGSVQEVLKASVMADADILSETFQLLIDSAKDF  
SKRLWGLVPFGLYPAPPLYCPQPAILSEEDGDDLLLKAEKNRQKVSGILQRVLLLFRA  
AQCSFPVAQWYILQLRWARKVMQKIRMKGSLPSLSPFPQSLLNYCKGGIAFFRPGAAGDH  
KLDEVSIRAIGCFRELCA LCWMLHVRDKLSYSCRQYQKARENVKGEKDLEVEFDSCMIEH  
CLSAVEWAYRMLPFSRFFNMEELIQDIILSLIGELPPIRKVAEIFVKAFYPEDVRVPLR  
DKYHSLHQRLRHCVVKGQPTTEEMMSVVMHSIQKVRVKALKRVQRNIGSFVNIWEPIEEE  
KPDEAPGVDRYSLGTSLSRSTLT ELGDSVVHSDADTFSEALSVEEKSRIINIYQRNAPNHM

ELTSIHKPTDKRKM CNQKENPTKKEDHEKLSQNTLPVIGVWEFERDDDEYIKFLDLFLSY  
ILERDLPYSRDADIPFLTSFSGKLREHELNSLLFDVHTTLKRHQSKTKSQNVFRAGSCFV  
VAPESYESEKSSSLNDEYGMHLENQKLSSSVLVNQGIKPFLLQYPSNEVNKNEGMSGFLFGL  
KQRSIYKIQDDTREKCLIQRSSNHIFWTPKSIKTRRCIFKATQCNDINPQEDLPLALNTF  
GSGRLLLEWMIRWSNRRLLCDSGITESSEYSPVIRVKTSTAAILTSLWLLEQPYFATYK  
AKNAIIKMVENRDTGCQIGPNIERESKSDAGGSVAVATPGGTEERNQGNKSCQNILNRMP  
TEAKNPDIKEINDDIISITHNTKKEFIDIDENLLEVEAFTEEEMDMHISDYEEDIEESVG  
GFRSPSLAICMMTLPQQLLEEFTEEVQCQREEPLETIMEEKSTEQKGMIEAFSHPGHTTP  
QSMQVDTSSSEISSAQISTYKEKSSSVPLLSINGVNVASQPPAPTQKTQRNEFTAQLPDC  
SESVRQMLQDEMFKLVQLQQINFMSLMQIVGSSFANLPDTQQLVQQSQSVHLGESQESNL  
RGCGDVEDSNKNLKERFFIKPQSMGENAREPRKNSPHCHEGTIPSGQNSTGNVQNVPHGS  
IPLCQLNGQPRKKGPIPSQNL PSTSFYPAPAGNTHLYLLSTPSVVQKAPRLIPHAKTFS  
PGDGFPLLQFKSKQEFQPLFLHTGSIQVFPFRPLPQPREAWGLSDSFQPALQRAAQTP  
ASHLNVSQYNTEARKKEVEKQTAETVITEIPNHVNLDQYVGQENLTPQQDSSVFIKPEK  
LFDVKPGTLEISPHHSFGLPLLVLPLKPPNMFSTSRASITVPSTPIQPIAEERKYPRLS  
LLHSHLSPENRCKKTQLIPL ENLIAFKQSQKLT HNLF EQGDAGHLQLLKVKIEPPEVRQ  
GKDSKKRQRRRAEKELQEKRC EKLRRKPNVTFRPENSIINNDSEIIKKPK EQQEHCGSH  
PLDDFDVPFEMLQDDNTSAGLHFMA SVKKKAIGSQDASTNTDPEHEPLTAPQLLVPDVYL  
NLKLSSEMSEKPWSPSIPHTVTNLELPVREEPSNDNVIKQQSDHLAVPSSAELHYMAASV  
TNAVPPHNFKSQGLPKPEFRFKGQSTKSDSAEDYLLWKRLQGVSAACPAPSSAAHQLEHL  
SAKLQKIDEQLLAIQNAENIEQDFPKPEMLDLHCDKIGPVDHIEFSSGPEFKTLASKT  
ISISEVRFLTHMDEEDQSDKKETSEPEFSITENYSGQKTCVFPTADSAVSLSSSDQNT  
TSPGMNSSDELCESVSVHPLQMTGLTDIADIIDDLIIKDGVSSEELGLTEQAMGTSRIQH  
YSGRHSQRTDKERREIQAWMKRKRKERMAYLNELAEKRGQEHDPFCPRSNPLYMTSREI  
RLRQMKHEKDRLLLSEHYSRRISQAYGLMNELLSESVQLPTLPQKPLPNKPSPTQSSSC  
QHCPSPRGENQHGHGSFLINRPGVKYMSKPSYIHKRKSFGQPQGSPPHGTATFTIQKKA  
GGAKAAVRKATQSPVTFQKGSNAPCHSLQHTKKHGSAGLAPQTKQVCVEYEREETVVSPW  
TIPSEIHKILHESHNSLLQDLSPTEEEEPEHPFGVGGVDSVSESTGSILSKLDWNAIEDM  
VASVEDQGLSVHWALDL

>sp|Q8N6W0|CEL5\_HUMAN CUGBP Elav-like family member 5 OS=Homo sapiens GN=CEL5 PE=1 SV=1

MARL TESEARRQQQLLQPRPSPVGSSGPEPPGGQPDGMKDLD AIKL FVGQIPRHLDEKD  
LKPLFEQFGRIYELTVLKDPYTMHKGCAFLTYCARDSA IKAQTALHEQKTLPGMARPIQ  
VKPADSESRGGRDRKLFVGM LNKQQSEEDVLRLFQPFGVIDECTVLRGPDGSSKGCAFVK  
FSSHTAQAAIHALHGSQTMPGASSSLVVKFADTDKERTLRRMQQMVGQLGILTPSLTLP  
FSPYSAYAQALMQQTTLVLTSGSYLSPGVAFSPCHIQQIGAVSLNGLPATPIAPASGLH  
SPPLL GTTAVPGLVAPITNGFAGVVPFPGGHPALETVYANGLVPYPAQSPTVAETLHPAF  
SGVQQY TAMYPTAAITPIAHSVPQPPPLLQQQQREGPEGCNLF IYHLPQEFQDTELQMF  
LPFGNIISSKVFMDRATNQSKCFGV SFDNPASAQA AIQAMNGFQIGMKRLKVQLKRPKD  
PGHPY

>sp|Q6PRD7|CEMP1\_HUMAN Cementoblastoma-derived protein 1 OS=Homo sapiens GN=CEMP1 PE=2 SV=1

MGTSSTDSQQAGHRRCSNTS AENLTCLSLPGSPGKTAPLPGPAQAGAGQPLPKGCAAV  
KAEVGIPAPHTSQEVRIHIRRLLSWAAPGACGLRSTPCALPQALPQARPCGRWFFPGCS  
LPTGGAQTILSLWTRHFLN WALQQREENSGRARRVPPVPRTAPVSKGEGSHPPQNSNGE

KVKTITPDVGLHQSLTSDPTVAVLRAKRAPEAHPPRSCSGSLTARVCHMGVCQGQGDTE  
GRMTLMG

>sp|Q8N111|CEND\_HUMAN Cell cycle exit and neuronal differentiation protein 1 OS=Homo sapiens GN=CEND1 PE=1 SV=1

MESRGKSASSPKPDTKVPQVTTEAKVPPAADGKAPLTKPSKKEAPAEKQQPPAAPTAPA  
KKTSAKADPALLNNHNSNLKPAPTVPSSPDATPEPKGPGDGAEDEAAASGGPGGRGPWSCE  
NFNPLLVAGGVAAIAIALILGVAFLVRKK

>sp|Q5SQH8|CF136\_HUMAN Uncharacterized protein C6orf136 OS=Homo sapiens GN=C6orf136 PE=2 SV=1

MYQPSRGAARRLGPCLAYQARPQDQLYPGTLPFPPLWPHSTTTTSPSSPLFWSPPLPRL  
PTQRLPQVPPLPLPQIQALSSAWVVLPPGKGEEGPGPELHSGCLDGLRSLFEGPPCPYPG  
AWIPFQVPGTAHPSPATPSGDPSMEEHLSVMYERLRQELPKLFLQSHDYSLSLDFEFIN  
EILNIRTKGRTWYILSLTLCRFLAWNYFAHLRLEVLQLTRHPENWTLQARWRLVGLPVHL  
LFLRFYKRDKDEHYRTYDAYSTFYLNSSGLICRHRLDKLMPSHSPPTPVKKLLVGALVAL  
GLSEPEPDLNLCSKP

>sp|Q5JU67|CF157\_HUMAN Cilia- and flagella-associated protein 157 OS=Homo sapiens GN=CFAP157 PE=2 SV=1

MAPKKSVSAGKELEVKKKGKKEPVVAVEPPLAKEMKEFYHIQIRDLEDRLARYQRKWD  
ELAVQEKMFQFEQELANNKKEIVAFKRTLNQVDEITDLNEQLQNLQAKEMEKDAFE  
AQLAQVRHEFQETKQLTTENIILGGKLAALFELRQKEEVTDKFTLLEEQVRKQENEF  
DYAYNLEKKSVLDDKRLRKEIIQRVNLVANEFHKVTTNRMWETTKRAIKENNGITLQMAR  
VSQQGMKLLQENEQLKGRQNNLCKQLELLENTQKVMARHKRGHQKIILMLTKKCQEQQQD  
TKEAEELRLLLSQLEQRSLQLQVDNQALKSQRDQLSLQLEQQQVDLQRLQQELANEQKVR  
ASLEAALVQATSFLQNLQMRDEEDSDVDVTFQPHKEMLLQQLVMLSSTVATRPQKAA  
CPHQESQSHGPPKESRPSIQLPRTGSLLPQLSDITPYQPGDLGLVPRQVHIPNPQDLRL  
LSYITRVGTFRHSSPEMRAPGSLKRLEKFSLEVPPLRPK

>sp|Q5TEZ5|CF163\_HUMAN Uncharacterized protein C6orf163 OS=Homo sapiens GN=C6orf163 PE=4 SV=2

MIRNSDYKNFVCCAVCNKIIPPAPFGKTFKRIHEYKPLKTRFYTHKDILDIGANILKKEE  
QFQEDILREHIAKAEAEVWAQANERQKQAVEKALEEANDRHKIEIQILKEEHQKDLQEV  
AKTKTEMYQNMDDEMKREHLAAEQRMVHRIQRIMMECHREKVEAVEKARAEERHIAQEI  
QAQSKAVEEIVNTGVTIKDEKTSVARLMREKEHEMSILYGIAQRQRQEEVQEVQAE  
KTHQATLGNMMDKLANTQGELLSIAKQLGIMTNWKDFLEELQETRMFAQKYINYTFPKL  
SPGHADFILPERKKTPSNLVIKENKTLD

>sp|H3BNL8|CF229\_HUMAN Uncharacterized protein C6orf229 OS=Homo sapiens GN=C6orf229 PE=4 SV=1

MANSRFCTQIWWKMYGYFAGLCRRLLQKFWRVTVKGFFVKKKEKKIPSAETYFHEEKIVV  
LGQVLMNESLPIEKRAQAAQKIGLLAFTGGPPAGNFAAEYMEEVAHLLQDEELAPKIKIL  
LLQSVACWCYLNPSQKRAKSLQFIPILISFFEGRFESTIKSETNSYLLLKFWTCYVLSV  
MTCNNLSCVKELKDHSAKYHLQMLAAENWSGWTFENFAEVLYFLIGFHRN

>sp|Q8NDM7|CFA43\_HUMAN Cilia- and flagella-associated protein 43 OS=Homo sapiens GN=CFAP43 PE=2 SV=3

MAQGRERDEGPHSAGGASLSVRWVQGFPKQNVHFVNDNTICYPCGNYVIFINIETKKKTV  
LQCSNGIVGVMATNIPCEVVAFSRDLKPLIYVYSFPGLTRRTKLKGNILLDYTLSSFSY

CGTYLASYSSELPFELALWNWESSIILCKKSQPGMDVNQMSFNPMNWRQLCLSSPSTVSV  
WTIERSNQEHCFRARSVKLPLEDGSFFNETDVVFPQSLPKDLIYGPVLP LSAIAGLVGKE  
AETFRPKDDLYPLLHPTMHCWTP TSDLYIGCEEHLLMINGDTLQVTVLNKIEEESPLDR  
RNFISPVTLVYQKEGVLASGIDGFVYSFI IKDRSYMIEDFLEIERPVEHMTFSPNYTVLL  
IQTDKGSVYIYTFGKEPTLNKVLDACDGKFQAIDFITPGTQYFMTLTYSGEICVWWLEDC  
ACVSKIYLNLTATVLACCPSSLSAAVGTEGSGVYFISVYDKESPQVVHKAFLSESSVQHV  
VYDQQGIFLLVGTAEGKVFIIINANSSSSFQIIIGFTEVAKDILQISTVSLLET DIVEVMVL  
SSLPEAGRSRLEMFTLPTLLPQVSTTFADERGRLKDEI IHKLYELEHALSSAVLGFQSN  
QIYGFCSQVPYICSYLLPEEHTGIYILKPYKKVQSRQYGPGLLYLSSHGLWLITIAKCG  
ILCIRDVYTLETFAWCRSHSHQGHGIQSMRISMDGQNILVNGRDDGTLVYLKWKRFGGHL  
ASEILDYQKLLISLSSAMDKENHYLSTTPKVSVDLGSDSEHTKQKASTDLSQDELVLTD  
VKKEIPWIQQKSQEAIKKEVNLFSSKKRKEIKQGIKSLSKTILNMMEENDKLENI AKLDQQ  
EFGDLLEELERLHDESQEEVAKMIKDVEMHNLAKSYLAELIKEECWNSMAVKGRALKCFH  
IPCVENFPMKARTVEELKELERVLQKKIEAECLKLRKEIVEAQSGVKLIKQRHEEDDE  
EEEEEDKTVKYSNLPNYLLGSLSTDFGVDTSLSSQLELHSREEKINQI ILLKDI IYKVK  
TVFNNEFDAAYKQKEFEIARVKERNVRIREI ILDLLEEAVWQPEFEDCEKPERTLVVQD  
EETIAHKHIKPWHKAKELIVNHEKEHWLLIQDASTRLRALMDMMGGVLEVKKEDILRMVI  
PQPAFMAKPD AVWTEERKQFKDYEEKVKELNEERDKYRKSLEAELKKLQNSIQESTQAF  
DEHLKRLFERRVKAEMVTNQEELKISNLAFLSLLD EELSSREKFLNNYLTRKQHEKSQTS  
EAVRKSREDLDVCKEHDNLLAEDKVMDRSFKKEFSEIPGHQVDILYKLFKRRPRISKQK  
THSETTSVVPFGELPGSGKLNDAFAQLMKAMDEL DNISNMPEGLDPLVWNHFCMTRRAK  
VENEQVKVQKAADLLEMATFLQKRVEEEEKVQQEIERVFHELILLQEEKVRFQLNLTIQI  
LLKQGQVELENFQLVLEYSDAI LINKNI IEDLNSVIRTQGQKKVASMMESKDVHKRILQI  
EWEHKKMEMEREDLNQAWDIQMLFFSRDRQKYLNEPNYEALISIQIGIMEQTI AVLDKM  
HKKNVENCKKLLKKLGKFSNQDIANYALSCNLREELAVSERKD ICNAMGSKLTCEKIV  
KERYENMMQQQKLTNISKQAEQISILQTEVERLRMKTFPALVQM

>sp|Q9UL16|CFA45\_HUMAN Cilia- and flagella-associated protein 45 OS=Homo sapiens  
GN=CFAP45 PE=2 SV=2

MPLSTAGILSSSSAASNRSRNKARYRTKAVSSEVDES LFGDIKSPAQQGSDSPIVLLRDK  
HTLQKTLTALGLDRKPETIQLITRDMVRELIVPTEDPSGESLIISPEEFERIKWASHVLT  
REELEARDQAFKKEKEATMDAVMTRKKIMKQKEMVWNNKKLS DLEEVAKERAQNLQRA  
NKL RMEQEEELKDMSKIILNAKCHAIRDAQILEKQQIQKELDTEEKRLDQMMEVERQKSI  
QRQEELERKRREERIRGRRQIVEQMEKNQEERSLLAEQREQEKEQMLEYMEQLQEEDLKD  
MERRQQQKLKMQAIEIKRINDENQKQKAELLAQEKLADQMVM EFTKKKMAREAEFEAEQER  
IRREKEKEIARLRAMQEKAQDYQAEQDALRAKRNQEVADREWRRKEKENARKKMETEAE L  
RKSRLQVAFKEHALAVQVQRDRDEFERILRAQREQIEKERLEEEKKATGRLQHANELRR  
QVRENQQKEVQNRIATFEEGRRLKEEAQKR RERIDEIKRKKLEELRATGLPEKYCIEAER  
KANILPATSVN

>sp|Q8N1V2|CFA52\_HUMAN Cilia- and flagella-associated protein 52 OS=Homo sapiens  
GN=CFAP52 PE=1 SV=3

MDNKISPEAQVAELELDAVIGFNHGVPTGLKCHPDQEHMIYPLGCTVLIQAIN TKEQNFL  
QGHGNNVSCLAISRSGEYIASGQVTFMGFKADIILWDYKNRELLARLSLHKGKIEALAFS  
PNDLYLVSLGGPDDGSVVVWSIAKRDAICGSPAAGLNVGNATNVIFSRCD EFMFTAGNG  
TIRWELDLPNRKIWPTECQTGQLKRIVMSIGVDDDDSFYLGTTTG DILKMNPRTKLLT

DVGPAKDKFSLGVS AIRCLKMGGLLVSGAGLLVFCKSPGYKPIKKIQLQGGITSITLRG  
EGHQFLVGTEESHIYRSFTDFKETLIATCHFDAVEDIVFPFGTAELFATCAKKDIRVWH  
TSSNRELLRITVPMNTCHGIDFMRDGKSIISAWNDGKIRAFAPETGRMLYVINNAHRIGV  
TAIATTS DCKRVISGGGEGEV RVWQIGCQTQKLEELKEHKSSVSCIRVKRNNEECVTAS  
TDGTCTIWDLVRLRRNQ MILANTLFQCVCYHPPEEQIITSGTDRKIAYWEVFDGTVIREL  
EGSLSGSINGMDITQEGVHFVTGGNDHLVKVWDYNEGEVTHVGVGHSGNITRIRISPGNQ  
YIVSVSADGAILRWKYPYTS

>sp|A5D8W1|CFA69\_HUMAN Cilia- and flagella-associated protein 69 OS=Homo sapiens  
GN=CFAP69 PE=2 SV=3

MWTEEAGATAEAQESGIRNKSSSSSQIPVVG VVTEDEAQDVFKPMDLNRVIKLEETDK  
DGLEEKQLKFVKLVQCYQNGPLRLDLAQIFKILNLCSGKIKNQPRFIESAYDI IKLCGL  
PFLKKKVSDEITYAEDTANSIALLGDLMKIPSELRIQICKCIVDFYHAEPKPKHIPGYQ  
QASSSYKIQMAEVGGLAKTMVQSM TLENQLVEKLWVLKVLQHLSTSEVNCTIMMKAQAA  
SGICTHLNDPDPSPGQLLFRSSEILWNLEKSSKEEVIQQLSNLECLLALKEVFKNLFMRG  
FSHYDRQLRNDILVITTI IAQNPEAPMIECGFTKDLILFATFNEVKSQNLLVKGLKLSNS  
YEDFELKKLLFNVIVILCKDLPTVQLLIDGKVILALFTYVKKPEKQKI IDWSAAQHEELQ  
LHAIATLSSVAPLLIEEYMSCQGNARVLAFLWECESEDPPFFSHGNSFHGTGGRGNKFAQM  
RYSRLLRRAVVYLEDET VNKDLCEKGTIQQMIGIFKNIISKPNKEEEAIVLEIQSDILLI  
LSGLCENHIQRKEIFGTEGV DIVLHVMKTDPRKLQSGLGYNVLLFSTLDSIWCCILGCYP  
SEDYFLEKEGIFLLDLLALNQKKFCNLILGIMVEFCDNPKTAHVNAWQGGKDQTAASL  
LIKLRKEEKELGVKRDKNKGIIDTKKPLTSFQEEQKI IPLPANCPSIAVMDVSENIRA  
KIYAILGKLD FENLPGLSAEDFVTLCTIHRYLDFKIGEIWNEIYEEIKLEKLRPVTTDKK  
ALEAITTASENIGKMVASLQSDIIESQACQDMQNEQKVYAKIQATHKQRELANKSWEDFL  
ARTSNAKTLKKA KSLQEKAIEASRYHKRPQNAIFHQTHIKGLNTTVPSGGVVTVESTPAR  
LVGGPLVDTDIALKKLPIRG GALQRVKAVKIVDAPKKS IPT

>sp|Q6ZQR2|CFA77\_HUMAN Cilia- and flagella-associated protein 77 OS=Homo sapiens  
GN=CFAP77 PE=1 SV=1

MPEARSSGPDLTRWRKQQQPVRRTVSQVCPPPRRPLTVADIRSGMENERLG VVRDSMFQN  
PLIVKAAGPASVGTSSVYDSSAVQKVIPSLAGHHIKGGPQAELGKPRERSYSLPGINFN  
YGLYIRGLDGGVPEAIGRWNVFKQPTCPHELTRNYIAMNRGAVKAGLVTARENLLYRQL  
NDIRISDQDDRRMKKEPPPLPPNMTFGIRARPSTPFFDLLQHRYLQLWVQE QKATQKAIK  
LEKKQKVVLGKLYETRSSLRKYKPPVKLDTLWHMPHFQKVGRHLDTFPTEADRQRALKA  
HRECAVRQGTLRMGNYTHP

>sp|P00746|CFAD\_HUMAN Complement factor D OS=Homo sapiens GN=CFD PE=1 SV=5

MHSWERLAVLVLLGAAACAAPPRGRILGGREAEAHARPYMASVQLNGAHL CGGVLVAEQW  
VLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRAVPHPDSPD TIDHDL LLLQL  
SEKATLGPAVRPLPWQRVDRDVAPGTLCDVAGWGIVNHAGRRPDSLQHVLLPVLD RATCN  
RRTHHDGAITERLMCAESNRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTR  
VASYAAWIDSVLA

>sp|P05156|CFAI\_HUMAN Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

MKLLHVFLFLCFHLRFCKVTYTSQEDLVEKKCLAKKYTHLSCDKVFCQPWQRCIEGTCV  
CKLPYQCPKNGTAVCATNRRSFPTYCQQKSLECLHPGTKFLNNGTCTAEGKFSVSLKHGN  
TDSEGIVEVKLVQDKTMFICKSSWSMREANVACL DLGFQQGADTQRRFKLS DLSINSTE  
CLHVHCRGLETS LAECTFTKRRTMGYQDFADVVCYTQKADSPMDDFQCVNGKYISQ MKA



CDGINDCGDQSDCLCKACQKGFGHCKSGVCIPSQYQCNGEVDCTGEDEVGCAGFASVT  
QEETEILTADMDAERRRIKSLPLKSCGVKNRMHIRRKRIVGGKRAQLGDLPWQVAIKDA  
SGITCGGIYIGGCWILTAACHCLASKTHRYQIWTTVVDWIHPDLKRIVIEYVDRIIFHEN  
YNAGTYQNDIALIEMKKDGNKKDCELPSPACVPWSPYLFQPNDTICVSGWGREKDNER  
VFSLQWGEVKLISNCSKFYGNRFYEKEMECAGTYDGSIDACKGDSGGPLVCMDANNVTYV  
WGVVSWGENGCGKPEFFGVYTKVANYFDWISYHVGRPFISQYNV

>sp|POCG36|CFC1B\_HUMAN Cryptic family protein 1B OS=Homo sapiens GN=CFC1B PE=3 SV=1  
MTWRHHVRLFTVSLALQIINLGNSYQREKHNGGEEVTKVATQKHRQSPLNWTSSHFG  
VTGSAEGWGPEEPLPYSWAFGEGASARPRCCRNNGTCLVLSFCVCPAHFTGRYCEHDQRR  
SECGALEHGAWTLRACHLCRCIFGALHCLPLQTPDRCDPKDFLASHAHGPSAGGAPSLLL  
LLPCALLHRLLRPDAPAHPRSLVPSVLQRERRPCGRPGLGHRL

>sp|Q9UFW8|CGBP1\_HUMAN CGG triplet repeat-binding protein 1 OS=Homo sapiens GN=CGBP1  
PE=1 SV=2

MERFVVTAPPARNRSKTALYVTPLDRTVEFGGELHEDGGKLFCTSCNVVLNHRKSAISD  
HLKSKTHTKRKAEEFEEQNVRRKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLEANIPLEK  
ADHPAVRAFLSRHVKNNGSIPKSDQLRRAYLPDGYENENQLLNSQDC

>sp|QOVF96|CGNL1\_HUMAN Cingulin-like protein 1 OS=Homo sapiens GN=CGNL1 PE=1 SV=2

MELYFGEYQHVQEEYGVHLRLASDDTQKSRSSQNSKAGSYGVSIQVQIDGHPYIVLNNT  
ERCLAGTSFSENGPPFPVNNLPLHSSNGSVPKENSEELQLPENPYAQPSPIRNLKQP  
LLHEGKNGVLDKDGSVKPSHLLNFQRHPELLQPYDPEKNELNLQNHQPSSESNWLKTLTE  
EGINNKPWTCFPPKSPNSQPTSPSLEDPAKSGVTAIRLCSSVIEDPKKQTSVCVNVQSC  
TKERVGEALFTSGRPLTAHSPHAHPETKKTRPDVLPFRRQDSAGPVLGARSRRSSSS  
TTPTSANSLYRFLDDQECAIHADNVNRHENRRYIPFLPGTGRDIDTGSIPGVDQLIEKF  
DQKPGQLQRRGRSGKRNRIINTDDRKRSSVDSAFPFGQLGNSEYLIEFSRNLGKSSEHLLR  
PSQVCPQRPLSQERRGKQSVGRTFAKLQGAAGASCAHSRPPQPNIDGKVLTEGSQEST  
VIRAPSLGAQSKKEEVKTATATMLQNRATATSPDSGAKKISVKTFPASNTQATPDLL  
KGQQLTQQTNEETAKQILYNLKEGSTDNDATKRKVNLFVEKIQTLKSRAGSAQGN  
QACNSTSEVKDLLEQKSKLTIEVAELQRQLQLEVKNQNIKEERERMRANLEELRSQHNE  
KVEENSTLQORLEESEGELRKNLEELFQVKMEREQHQTEIRDLQDQSEMHELDLAKRS  
EDREKALIEELLQAKQDLQDLIAKEEQEDLLRKRERELTKGALKEEVSSHDQEMDK  
LKEQYDAELQALRESVEEATKNVEVLASRSNTSEQDQAGTEMVKLLQEENEKLQGRSEE  
LERRVAQLQRQIEDLKGDEAKAKETLKKYEGEIRQLEEALVHARKEEKEAVSARRALENE  
LEAAQGNLSQTTQEQLKSEKLKEESEQKEQLRRLKNEMENERWHLGKTIEKLQKEMADI  
VEASRTSTLELQNLDEYKEKNRRELAEMQRQLKEKTLEAEKSRLTAMKMQDEMRLMEEE  
LRDYQRAQDEALTKRQLEQLKDLEYELEAKSHLKDDRSRLVKQMEDKVSQLEMELEEE  
RNSDDLSEIRSRSEQMEQLRNELLQERARQDLECDKISLERQNKDLKSRIIHLEGSY  
RSSKEGLVVQMEARIAELEDRLSEERDRANLQLSNRRRLERKVKELVMQVDDEHLSLTDQ  
KDQLSLRLKAMKRQVEEAEEDRLLESSKKKLQRELEEQMDMNEHLQGGQLNSMKDLRLK  
KLPSKVLDDMDDDDLDSTGGSLYEAPVSYTFSKDSTVASQI

>sp|Q8WUX2|CHAC2\_HUMAN Putative glutathione-specific gamma-glutamylcyclotransferase 2  
OS=Homo sapiens GN=CHAC2 PE=2 SV=1

MWVFGYGLIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPRVVTLVDPAGCV  
WGVAYRLPVGKEEEVKAYLDFREKGGYRTTTFYFYPKDPPTKPFVLLYIGTCNDPDLG  
PAPLEDIAEQIFNAAGPSGRNTEYLFELANSIRNLVPEEAEHLFALEKLVKERLEGKQN

LNCI

>sp|O14647|CHD2\_HUMAN Chromodomain-helicase-DNA-binding protein 2 OS=Homo sapiens GN=CHD2  
PE=1 SV=2

MMRNKDKSQEEDSSLHSNASSHSASEEASGSDSGSQSESEQSDPGSGHGSESNSSESS  
ESQSESESESAGSKSQPVLPEAKEKPASKKERIADVKKMWEEYPDVGVRNSRSRQEPS  
RFNIKEEASSGSESGSPKRRGQRQLKKQEKWKQEPSEDEQEQGTSASESEPEQKKVKARRP  
VPRRTVPKPRVKQPKTQRGKRKKQDSSDEDDDDDEAPKRQTRRRAAKNVSYKEDDDFET  
DSDDL IEMTGEGVDEQQDNSETIEKVLD SRLGKKGATGASTTVYAIEANGDP SGDFDTEK  
DEGEIQYL IKWKGWSYIHSTWESEESLQQQKVGLKKLENFKKKEDEIKQWLGVSPEDV  
EYFNCQQELASELNKQYQIVERVIAVKTSKSTLGQTD FPAHSRKPAPSNEPEYLCKWMGL  
PYSECSWEDEALIGKKFQNCIDSFHSRNNSKTIPTRECKALKQRPRFVALKKQPAYLGGE  
NLELRDYQLEGLNWL AHSWCKNNSVILADEMGLGKTIQTISFLSYLFHQHQLYGPFLIVV  
PLSTLT SWQREFE IWAPEINVVVYIGDLMSRNTIREYEWIHSQTKRLKFNALITTYEILL  
KDKTVLGSINWAF LGVDEAHLKNDDSLLYKTLIDFKSNHRLITGTPLQNSLKELWSLL  
HFIMPEKFEFWEDFEEDHGKGRENGYQSLHKVLEPFLRRVKKDVEKSLPAKVEQILRVE  
MSALQKQYYKWILTRNYKALAKGTRGSTSGFLNIVMELKKCCNHCYLKPPPEENERENGQ  
EILLSLRSSGKLILLDKLLTRLRERGNRVLIFSQMVRMLDILAEYLTIKHYPFQRLDGS  
IKGEIRKQALDHFNADGSEDFCFLSTRAGGLGINLASADTVVIFDSWNPQNDLQAQAR  
AHRIGQKKQVNIYRLVTGKTVEEEI IERAKKKMVL DHLVIQRMDTTGRTILENNSGRSNS  
NPFNKEELTAILKFGAEDLFKELEGESEPEQEMDIDEILRLAETRENEVSTSATDELLSQ  
FKVANFATMEDEEELERPHKDWEI IPEEQRKKEVEEERQKELEEIYMLPRIRSSTKKA  
QTNDSDSDTESKRQAQRSSASESETEDSDDDKKPKRRGRPRSVRKDLVEGFTDAEIRRFI  
KAYKKFGLPLERLECIARDAELVDKSVADLKRLGELIHNSCVSAMQEYEEQLKENASEGK  
GPGKRRGPTIKISGVQVNVKSI IQHEEEFEMLHKSIPVDPEEKKKYCLTCRVKAAHFDVE  
WGVEDDSRLLLGIYEHGYGNWELIKTDPELKLTDKILPVEDKKPQGGKQLQTRADYLLKL  
LRKGLEKKGAVTGGEAKLKKRKPRVKKENKVPRLKEEHGIELSSPRHSDNPSEEGEVKD  
DGLEKSPMKKKQKKKENKENKEKQMSRDKKEGDKERKKSKDKKEKPKSGDAKSSSKSR  
SQGPVHITAGSEPVP IGEDEDDDLQETFSICKERM RPVKKALKQLDKPDKGLNVQEQL  
HTRNCLLKIGDRIAECLKAYS DQEHIKLWRRNLWIFVSKTFEFDARKLHKLYKMAHKKRS  
QEEEEQKKKDDVTGGKPFPRPEASGSSRDSLISQSHTSHNLHPQKPHLPASHGPMHGH  
RDNYNHPNKRHFSNADRGDWQRERKFNYGGGNNPPWGSDRHHQYEQHWYKDHHYGDRRH  
MDAHRSGSYRPNMSRKRPYDYSSDRDHRGHRDYDRHHHDSKRRRSDEF RPQNYHQD  
FRMSDHRPAMGYHGQGPSDHYRSFHTDKLGEYKQPLPLHPAVSDPRSPPSQKSPHDSK  
SPLDHRSPLESLQKNNPDYNWVRKT

>sp|Q12873|CHD3\_HUMAN Chromodomain-helicase-DNA-binding protein 3 OS=Homo sapiens GN=CHD3  
PE=1 SV=3

MKAADTVILWARSKNDQLRISFPPLCWGDRMPDKDDIRLLPSALGVKKRKRGPKKQKEN  
KPGKPRKRKKRDSEEEFGSERDEYREKSESGGSEYGTGPGRRRRKHREKKEKTKRRKK  
GEGDGGQKQVEQSSATLLLTWGLEDV EHV FSEEDYHTLTNYKAFSQFMRPLIAKKNPKI  
PMSKMMTILGAKWREFSANNPFKGSAAAVAAAAA AAVAEQVSAAVSSATPIAPSGPP  
ALPPPPAADIQPPPIIRAKTKEGKGP GHKRRSKSPRPDGRKKLRGKKMAPLKI KLGLLG  
GKRKKGGSYV FQSDGEPEPEAEESDLDSGSVHSASGRPDGPVRTKKLKRGRPGRKKKKVL  
GCPAVAGEEEVDGYETDHDYCEVCQQGGEIILCDTCPRAYHLVCLDPELDRAPEGKWSC  
PHCEKEGVQWEAKEEEEEEEEEEEEEGEKEEEDDHMEYCRVCKDGGELLCCDACISSYHI

HCLNPPLPDIPNGEWLCPRCTCPVLKGRVQKILHWRWGEPPVAVPAPQQADGNPDVPPPR  
PLQGRSEREFFVKWVGLSYWHCSWAKELQLEIFHLVMYRNYQRKNDMEPPPLDYSGED  
DGKSDKRKVKDPHYAEMEEKYRFGIKPEWMTVHRIINHSVDKKGNHYLVKWRDLPYDQ  
STWEEDEMNIPEYEEHKQSYWRHRELIMGEDPAQPRKYKKKKKELQGDGPPSSPTNDPTV  
KYETQPRFITATGGTLHMYQLEGLNWLRFSWAQGTDITLADEMPLGKTIQTIVFLYSLYK  
EGHTKGPFLVSAPLSTIINWEREFQMWAPKFYVVITYTGDKDSRAIIRENEFSFEDNAIKG  
GKKAFFMKREAQVKFHVLLTSYELITIDQAALGSIRWACLVDVAHRLKNNQSKFFRVLN  
GYKIDHKLLLTGTPLQNNLEELFHLNFLTPERFNNLEGFLEEFADISKEDQIKKLHDL  
GPHMLRRLKADVFNMPAKTELIVRVELSPMQKKYKYILTRNFEALNSRGGGNQVSLN  
IMMDLKKCCNHPYLFVPAAMESPKLPSEGAYEGGALIKSSGKMLLQKMLRKLKEQGHRVL  
IFSQMTKMLDLEDFLDYEGYKERIDGGITGALRQEAIDRFNAPGAQQFCFLSTRAGG  
LGINLATADTVIIFDSDWNPHNDIQAFSRAHRIGQANKVMIYRFVTRASVEERITQVAKR  
KMMLTHLVVRPGLGSKAGSMKQELDDILKFGTEELFKDENEGENKEEDSSVIHYDNEAI  
ARLLDRNQDATEDTDVQNMNEYLSSFKVAQYVREEDKIEEIEREIIKQENVDPDYWEK  
LLRHHYEQQEDLARNLGKGKRVKQVNYNDAAQEDQDNQSEYSGSEEEDEDFDERPEG  
RRQSKRQLRNEKDKPLPPLLARVGGNIEVLGFNTRQRKAFLNAVMRWGMPPQDAFTTQWL  
VRDLRGKTEKEFKAYVSLFMRHLCEPGADGSETFADGVPREGLSRQQVLTRIGVMSLVKK  
KVQFEHINGRWSMPELMPDPSADSKRSSRASSPTKTSPTTPEASATNSPCTSKPATPAP  
SEKGEGIRTPLEKEEAENQEEKPEKNSRIGEKMETEADAPSPAPSLGERLEPRKIPEDE  
VPGVPGEMEPEPGYRGDREKSATESTPGERGEEKPLDGQEHREPERGETGDLGKREDVKG  
DRELRPGRDEPRSNRREEKTEKPRFMFNIADGGFTELHTLWQNEERAAISSGKLNEIW  
HRRHDYWLLAGIVLHGYARWQDIQNDQFAIINEPFKTEANKGNFLEMKNKFLARRFKLL  
EQALVIEEQLRRAAYLNLSQEPAPMALHARFAEAELAESHQHSKESLAGNKPANAV  
LHKVLNQLEELSDMKADVTRLPATLSRIPIAARLQMSERSILSRLASKGTEPHPTPAY  
PPGPYATPPGYGAASAPVGAALAAAGANYSQMPAGSFITAATNGPPVLVKKKEKEMVGAL  
VSDGLDRKEPRAGEVICIDD

>sp|Q9P2D1|CHD7\_HUMAN Chromodomain-helicase-DNA-binding protein 7 OS=Homo sapiens GN=CHD7  
PE=1 SV=3

MADPGMMSLFGEDGNIFSEGLEGLGECGYPENPVNPMGQQMPIDQGFASLQPSLHHPSTN  
QNQTKLTHFDHYNQYEQQKMHLMDQPNRMSNTPGNGLASPHSQYHTPPVPQVPHGGSGG  
GQMVGYPGMQNERHGGSFVDSSSMWGPRAVQVPDQIRAPYQQQQPQPQPAPSGPPAQ  
GHPQHMQMGSYMARGFDSMQHGQPQQRMSQFSQGQGLNQGNPFIATSGPGHLSHVPQ  
QSPSMAPSLRHSVQQFHHHPSTALHGESVAHSRPFSPNPPQQGAVRPQTLNFSSRSQTV  
SPTINNSGQYSRYPSYSLNLQGLVNNTGMNQNLGLTNNTPMNQSVPRYPNAVGFPSNSGQG  
LMHQQPIHPSGSLNQMTQTMHPSQPQGTYSPPPMSPMKAMSNPAGTPPPQVRPGSAGI  
PMEVGSYPNMPHPQPSHQPPGAMGIGQRNMGPRNMQQSRPFIGMSSAPRELTGHMRPNGC  
PGVGLGDPQAIQERLIPGQQHPGQQPSFQQLPTCPPLQPHPLHHQSSPPHHPHQPWAQL  
HPSPQNTPKQVPVHGHSPSEPFLEKVPDMTQVSGPNAQLVKSDDYLPSEQQPQQKKKK  
KKNNHIVAEDPSKGFKDDFPGGVDNQELNRNSLDGSQEEKKKKKRSKAKKDPKEPKEPK  
EKKEPKEPKTPKAPKIPKEPKEKKAKTATPKPKSSKKSSNKKPDSEASALKKKVNGKTE  
GSENSDLDKTPPPSPPEEDEDPGVQKRRSSRQVKKRYTEDLEFKISDEEADDADAAGR  
DSPSNTSQSEQQESVDAEGPVVEKIMSSRSVKKQKESGEEVEIEEFYVKYKNFSYLHCQW  
ASIEDLEKDKRIQQIKRFAKQGNKFLSEIEDELFPDYVEVDRIIMDFARSTDDRGEP  
VTHYLVKWCSLPYEDSTWERRQDIDQAKIEEFELMSREPETERVERPPADDWKKSESSR

EYKNNKLREYQLEGVNLLFNWYNMNCILADEMGLGKTIQSITFLYEIYLKGIHGPFL  
VIAPLSTIPNWEREFRTWTELNVVYHGSQASRTIQLYEMYFKDPQGRVIKGSYKFHAI  
ITTFEMILTDCPELRNIPWRCVVIDEAHRLKNRCKLLEGLKMMDEHKVLLTGTPNQNT  
VEELFSLHLFLEPSRFPSETTFMQEFGDLKTEEQVQKLQAILKPMMLRRLKEDVEKNLAP  
KEETIIIEVELTNIQKKYYRAILEKNFTFLSKGGQANVPNLLNTMMELRKCCNHPYLING  
AEEKILEEFKETHNAESPFDQLQAMIQAAGKLVLIDKLLPKLKAGGHRVLIIFSQMVRCLD  
ILEDYLIQRRYPYERIDGRVRGNLRQAAIDRFSPKPSDRFVLLCTRAGGLGINLTAADT  
CIIFSDSWNPQNDLQAQARCHRIGQSKSVKIYRLITRNSYEREMFDKASLKLGLDKAVLQ  
SMSGRENATNGVQQLSKKEIEDLLRKGAYGALMDEEDEGSKFCEEDIDQILLRRTHITIT  
ESEGKGSTFAKASFVAGNRTDISLDDPNFWQKWAKKAELDIDALNGRNNLVIDTPRVRK  
QTRLYSAVKEDELMEFSDLESSEEKPCAKPRRPQDKSQGYARSECFRVEKNLLVYGWGR  
WTDILSHGRYKRQLTEQDVETICRTILVYCLNHYKGDENIKSFIWDLITPTADGQTRALV  
NHSGLSAPVPRGRKGKKVKAQSTQPVVQDADWLASCNPDALFQEDSYKKHLKHHCKNVLL  
RVRMLYYLRQEVIDGQADKILEGADSSEADVWIPEPFHAEVPADWWDKEADKSLIGVFK  
HGYEYNSMRADPALCFLERVGMPDAKAIAAEQRGTDMLADGGDGGFEDREDEDPEYKPT  
RTPFKDEIDEFANSPEDEKESMEIHATGKHSESNAELGQLYWPNTSTLTTRLRLITAY  
QRSYKRQMRQEALMKTDRRRRRPREEVRALAEAREAIISEKRQKWTRREEADFYRVVST  
FGVIFDPVKQFQFDWNQFRAFARLDKKSDESLEKYFSCFVAMCRRVCRMPVKPDDEPPDLS  
SIIEPITEERASRTLYRIELLRKIREQVLHHPQLGERLKLCPSLDLPEWWEGRHHRDL  
LVGAAKHGVSRTDYHILNDPELSFLDAHKNFAQNRGAGNTSSLNPLAVGFVQTPPVISSA  
HIQDERVLEQAEGKVEEPENPAAKEKCEGKEEEEETDGSKGESKQECEAEASSVKNELKG  
VEVGADTGSKSISEKGSEDEEEKLEDDDKSEESSQPEAGAVSRGNFDEESNASMSTAR  
DETRDGFYMEDGDPSVAQLLHERTFAFSFWPKDRVMINRLDNICEAVLKGWPNRRQMF  
DFQGLIPGYTPPTVDSPLQKRSFAELSMVGQASISGSEDITTSPQLSKEDALNLSVPRQR  
RRRRRKIEIEAERAAKRRNLMEMVAQLRESQVVSSENGQEKVVDLSKASREATSSTS NFSS  
LSSKFILPNVSTPVSDAFKTMELLQAGLSRTPTRHLLNGSLVDGEPMPKRRRRGRKNVE  
GLDLLFMSHKRTSLSAEDA EVTKAFEEDIETPPTRNIPSPGQLDPDTRIPVINLEDGTRL  
VGEDAPKNKDLVEWLKLHPTYTVDMPSYVPKNADVLFSSFQPKPKQRHRCRNPKNLDINT  
LTGEERVPPVNRNGKMGAMAPPMKDLPRWLEENPEFAVAPDWTDIVKQSGFVPESMF  
DRLLTGPPVVRGEGASRRGRRPKSEIARAAAAAAVASTSGINPLLVNSLFAGMDLTS LQN  
LQNLQSLQLAGLMGFPPLATAATAGGDAKNPAAVLPLMLPGMAGLPNVFGLGGLLNPL  
SAATGNTTTASSQGEPEDESTSKGEEKGNENEDENKDSEKSTDAVSAADSANGSVGAATAP  
AGLPSNPLAFNPFLSTMAPGLFYPSMFLPPGLGGLTLPGFPALAGLQNAVGSSEEKAAD  
KAEGGPFKDGGETLEGSDAEESLDKTAESSLLEDEIAQGEELDSL DGGDEIENNENDE

>sp|Q8IWX8|CHERP\_HUMAN Calcium homeostasis endoplasmic reticulum protein OS=Homo sapiens  
GN=CHERP PE=1 SV=3

MEMPLPDDQELRNVIDKLAQFVARNGPEFEKMTMEKQKDNPKFSFLFGGEFYSYKCKL  
ALEQQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDELIQQSQWNLQQQE  
QHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWM  
FSNAKSPPHCELMAGHLNRNITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKV  
VVPIYCTSFLAVEEDKQKKIARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYS  
SVVQPVLAFQQQIQITLKTQHEEFVTS LAQQQQQQQQQQQLQMPQMEAEVKATPPPPAP  
PPAPAPAPAIPPTTQPDDSKPPIQMPGSSEYEAPGGVQDPAAAGPRGPGPHDQIPPKNKP  
WFDQPHVPAPWGQQQPPEQPPYPHHQGGPPHCPPWNN SHEGMWGEQRGDPGWNGQRDAPW

NNQPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRPPhFRGPFPPHQQHPQFNQPPH  
PHNFNRFPFRFMQDDFPPRHPPFERPPYPHFRFDYPQGDFAEMGPPHHHPGHRMPHPGINE  
HPPWAGPQHPDFGPPPHGFNGQPPHMRRQGPPHINHDDPSLVPNVYFDLPAGLMAPLVK  
LEDHEYKPLDPKDIRLPPPMPPSERLLAAVEAFYSPPSHDRPNSEGWEQNGLYEFFRAK  
MRARRRKGQEKRNSGPSRSRSRSKSRGRSSRSNSRSSKSSGSYSRSRSRSCRSYSRSR  
SRSRSRSRSSRSRSRSQSRSRSKSYSPGRRRRRSRSRSTPPSSAGLGSNSAPPIDPSRLG  
EENKGHQMLVKMGWSGSGLGAKEQGIQDPIKGGDVRDKWDQYKGVGVALDDPYENYRRN  
KSYSFIAARMKARDECK

>sp|P35790|CHKA\_HUMAN Choline kinase alpha OS=Homo sapiens GN=CHKA PE=1 SV=3

MKTKFCTGGEAEPSPLGLLLSCGSGSAAPAGVGQQRDAASDLESKQLGGQPPLALPPP  
PPLPLPLPLPQPPPPQPPADEQPEPRTRRRAYLWCKEFLPGAWRGLREDEFHISVIRGGL  
SNMLFQCSLPDDTATLGDEPRKVLRLYLGAAILQMRSCNKEGSEQAQKENEFGQAEAMVLE  
SVMFAILAERSLGPPLYGIFPQGRLEQFIPSRRLDTEELSLPDISAEIAEKMATFHGMKM  
PFNKEPKWLFGTMEKYLKEVLRIFTEESRIKKLHKLLSYNPLELENLRSLESTPSPV  
VFCHNDCQEGNILLEGRENSEKQKLMLIDFEYSSYNYRGFDIGNHFCEWMDYSYEKYP  
FFRANIRKYPTKKQQLHFISYLPAFQNDFENLSTEEKSIIKEEMLLEVNRFALASHFLW  
GLWSIVQAKISSIEFGYMDYARFDAYFHQKRKLG

>sp|Q9NZZ3|CHMP5\_HUMAN Charged multivesicular body protein 5 OS=Homo sapiens GN=CHMP5  
PE=1 SV=1

MNRLFQKAKPKAPPSLTDCIGTVDSRAESIDKKISRLDAELVKYKDQIKKMREGPAKNM  
VKQKALRVLKQKRMYEQQQRDNLAQQSFNMEQANYTIQSLKDTKTVDAMKLGVKEMKKAY  
KQVKIDQIEDLQDQLEDMMEDANEIQEALSRSYGTPELDEDDLEAELDALGDELLADEDS  
SYLDEAASAPAIPEGVPTDTKNKDGVLVDEFGLPQIPAS

>sp|Q96BS2|CHP3\_HUMAN Calcineurin B homologous protein 3 OS=Homo sapiens GN=TESC PE=1  
SV=3

MGAHSAASEEVRELEGKTGFSSDQIEQLHRRFKQLSGDQPTIRKENFNVPDLELNPIRS  
KIVRAFFDNRNLRKGPSGLADEINFEDFLTIMSYFRPIDTMDDEEQVELSRKEKLRFLFH  
MYDSDSDGRITLEEYRNVVEELLSGNPHIEKESARSIADGAMMEAASVCMGQMEPDQVYE  
GITFEDFLKIWQGIDIETKMHVRFLNMETMALCH

>sp|Q8WUD6|CHPT1\_HUMAN Cholinephosphotransferase 1 OS=Homo sapiens GN=CHPT1 PE=1 SV=1

MAAGAGAGSAPRWLRALSEPLSAAQLRRLLEEHRYSAGVSLLEPPLQLYWTWLLQWIPLW  
MAPNSITLLGLAVNVTTLVLSYCPATEEAPYWTYLLCALGLFIYQSLDAIDGKQARR  
TNSCSPLGELFDHGCDLSLTVFMAVGASIAARLGTYPDWFFFCFIGMFVIFYCAHWQTYV  
SGMLRFGKVDVTEIQIALVIVFVLSAFGGATMWDYTIPILEIKLKILPVLGFLGGVIFSC  
SNYFHVILHGGVGKNGSTIAGTSVLSPLHIGLIILAIMIYKKSATDVFEKHPCLYILM  
FGCVFAKVSQKLVAHMTKSELYLQDTVFLGPGLLFLDQYFNNFIDEYVVLWMAMVISSF  
DMVIYFSALCLQISRHLHLNIFKTACHQAPEQVQVLSSKSHQNNMD

>sp|Q8NCHO|CHSTE\_HUMAN Carbohydrate sulfotransferase 14 OS=Homo sapiens GN=CHST14 PE=1  
SV=2

MFPRPLTPLAAPNGAEPLGRALRRAPLGRARAGLGGPPLLLPSMLMFAVIVASSGLLMI  
ERGILAEMKPLPLHPPGREGTAWRGKAPKPGGLSLRAGDADLQVRQDVRNRTLRAVCGQP  
GMPRPDWLPGVQRRITLLRHILVSDRYRFLYCYVPKVACSNWKRVMKVLAVLDSVDVRL  
KMDHRSDLVFLADLRPEEIRYRLQHYFKFLVREPLERLLSAYRNKFGEIREYQQRYGAE  
IVRRYRAGAGPSAGDDVTFPEFLRYLVDEDPERMNEHWMPVYHLCQPCAVHYDFVGSYE

RLEADANQVLEWVRAPPHVRFPARQAWYRPASPESLHYHLCSAPRALLQDVLPKYILDFS  
LFAYPLPNVTKEACQQ

>sp|Q9H2J1|CI037\_HUMAN Uncharacterized protein ARRDC1-AS1 OS=Homo sapiens GN=ARRDC1-AS1  
PE=2 SV=2

MEFHYVAQADLELLTSSNPASASQSTGITGGSHRARPGPVHFDKVTDKPSHSHPFALK  
ENWNLNPEPSSPPSPLFLEAPSRQASQHHGASPGAGTSAGCPFEKCCSTEPCLSGLDVG  
RGEAASLRARPGSGASRGQGPGRVSCRRDLGKPLHAPAGFSAGEVHTTPLGNLGA

>sp|Q8TAL5|CI043\_HUMAN Uncharacterized protein C9orf43 OS=Homo sapiens GN=C9orf43 PE=1  
SV=1

MDLPDESQWDETTCLAVCQHPQCWATIRRIERGHPRILGSSCKTPLDAEDKLPVLTVVD  
ILDSGFAAHLPECTFTKAHSLLSQSSKFYSKFHGRPPKGLPDKSLINCTNRLPKFPVLN  
LNETQLPCPEDVRNMVVLWIPEETEIHVSQHGKKRKN SAVKSKSFLGLSGNQSAGTRVG  
TPGMIVPPPTPVQLSEQFSSDFLPLWAQSEALPQDLLKELLPGGKQTMLCPEMKIKLMM  
KKNLPLEKNRPDSVISSKMFLSIHRLTLERPALRYPERLKKLHNLKTEGYRQQQRQQQQ  
QQQQKKVKTPIKKQEAKKAKSDPGIQSTSHKHPVTTVHDRLYGYRTLPGQNSDMKQQQQ  
MEKGTTSKQDSTERPKMNYDHADFHHSVKSPELYETPTNKDISAPVDAVPEAQAARQK  
KISFNFEIMASTGWNSELKLLRILQDQDDEDEEDQSSGAE

>sp|Q5WON0|CI057\_HUMAN Uncharacterized protein C9orf57 OS=Homo sapiens GN=C9orf57 PE=2  
SV=1

MKKIEISGTCLSFHLLFGLEIRMRRIVFAGVILFRLLGVILFRLLGVILFGRLGDLGTCQ  
TKPGQYWKKEEVHIQDVGGLICRACNLSLPFHGCLLDLGTCAEPGQYCKEEVHIQGGIQW  
YSVKGCTKNTSECFKSTLVKRILQLHELVTTHCCNHSLCNF

>sp|HOYL14|CI069\_HUMAN Protein C9orf69 OS=Homo sapiens GN=C9orf69 PE=1 SV=2

MPVMPIPRRVRSFHGPHTTCLHAACGPVRASHLARTKYNNFDVYIKTRWLYGFIRFLLYF  
SCSLFTAALWGALAAFLCLQYLGVRLRFRQKLSVLLLLGRRRVDFRLVNELLVYGIH  
VTMLLVGGLGWC FMVFVDM

>sp|Q14011|CIRBP\_HUMAN Cold-inducible RNA-binding protein OS=Homo sapiens GN=CIRBP PE=1  
SV=1

MASDEGKLFVGGLSFDTNEQSLEQVFSKYGQISEVVVVKDRETQRSRGFGFVTFENIDDA  
KDAMMAMNGKSVDGRQIRVDQAGKSSDNRSRGYRGGSAGGRGFFRGGRGRGRGFSRGGGD  
RGYGGNRFE SRGGYGGSRDYSSRSQSGGYSDRSSGGSYRDSYDSYATHNE

>sp|Q99966|CITE1\_HUMAN Cbp/p300-interacting transactivator 1 OS=Homo sapiens GN=CITED1  
PE=1 SV=2

MPTTSRPAldvkggtSpakEDANqEMSSVAYSNLAVKDRKAVAILHYPGVASNGTKASGA  
PTSSSGSPIGSPTTTPPTKPPSfNLHPAPHLLASmHLQKLNSQYQGMAAATPGQPGEAGP  
LQNWDFGAQAGGAESLSPSAGAQSPAIIIDSDPVDEEVLMslVVELGLDRANELPELWLGG  
NEFDFTADFPSSC

>sp|Q9BWS9|CHID1\_HUMAN Chitinase domain-containing protein 1 OS=Homo sapiens GN=CHID1  
PE=1 SV=1

MRTLfNLLWLALACSPVHTTlSKSDAKKAASKTLLEKSQFSdkPVQDRGLVVTDLKAESV  
VLEHRSYCSAKARDRHfAGDVLGYVTPWNSHGyDVTKVFGSKFTQISPVWLQLKRRGREM  
FEVTGLHDVDQGWmRAVRKHAKGLHIVPRLLFEDWTYDDFRNVLDSEDEIEELSKTVVQV  
AKNQHFdGfVVEVWNQLLSQKRVLiHMLTHLAEALHqARLLALLVIPPAITPGTDQLGM  
FTHKEFEQLAPVLDGfSLMTYDYSTAHPGPNAPLSWVRACVQVLDPKSKWRSKILLGLN

FYGM DYATSKDAREPVVGARYIQTLKDHPRMVWDSQASEHFFEYKKSRSGRHVVFYPTL  
KSLQVRLELARELGVGVS IWELGQGLDYFYDLL

>sp|P15882|CHIN\_HUMAN N-chimaerin OS=Homo sapiens GN=CHN1 PE=1 SV=3

MALTLFD TDEYRPPVWKS YLYQLQQEAPHPRRITCTCEVENRPKY YGREFHGMISREAAD  
QLLIVAEGSYL IRESQRQPGTYTLALRFGSQTRNFR LYYDGKHFVGEKRFESI HDLVTDG  
LITLYIETKAAEYIAKMTINPIYEHVGYTTLNREPAYKKHMPVLKETHDERDSTGQDGVS  
EKRLTSLVRRATLKENEQIPKYEKIHNFKVHTFRGPHWCEYCANFMWG LIAQGVKCADCG  
LNVHKQCSKMVPNDCKPDLKHVKVYSCDL TTLVKAHTTKRPMVDMCIREIESRGLNSE  
GLYRVSGFSDLIEDVKMAFDRDGEKADISVNM YEDINIITGALKLYFRDLPIPLITYDAY  
PKFIESAKIMDPDEQLETLHEALKLLPPAHCETLRYLMAHLKRVTLHEKENLMNAENLGI  
VFGPTLMRSPELDAMAALNDIRYQRLVVELLIKNE DILF

>sp|Q9UNE7|CHIP\_HUMAN E3 ubiquitin-protein ligase CHIP OS=Homo sapiens GN=STUB1 PE=1 SV=2

MKGKEEKEGGARLGAGGGSPEKSPSAQELKEQGNRLFVGRKYPEAAACYGRAITRNPLVA  
VYYTNRALCYLKMQQHEQALADCRRALELDGQSVKAHFFLGQCQLEMESYDEA IANLQRA  
YSLAKEQRLNFGDDIPSALRIAKKKRWNSIEERRIHQESELHSYLSRLIAAERERELEEC  
QRNHEGDEDDSHVRAQQACIEAKHDKY MADMDELFSQVDEKRKKRDIPDYLCGKISFELM  
REPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLTQEQLIPNLAMKEVIDAFISENGWV  
EDY

>sp|O14757|CHK1\_HUMAN Serine/threonine-protein kinase Chk1 OS=Homo sapiens GN=CHK1 PE=1 SV=2

MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEICINK  
MLNHENVVKFYGHRREGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRF FHQLMAGVVY  
LHGIGITHRDIKPENLLLDERDNLKISDFGLATVFRYNNRERLLNKMCGTLPYVAPELLK  
RREFHAEPVDVWSCGIVLTAMLAGELPWDQPSDSCQEYSDWKEKKTYLNPWKIDSAPLA  
LLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTS GGVSSESPSGFSKHIQSNLDF  
SPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKL VQGISFSQPTCPDHMLLSQLL  
GTPGSSQNPWQRLVKRMTRFFTKLDADKSYQCLKETCEKLG YQWKKSCMNQVTISTDRR  
NNKLIFKVNLLMDDKILVDFRLSKGDGLEFKRHFLKIKGLIDIVSSQKIWLPAT

>sp|P06276|CHLE\_HUMAN Cholinesterase OS=Homo sapiens GN=BCHE PE=1 SV=1

MHSKVTIICIRFLFWFLLL CMLIGKSHTEDDII IATKNGKVRGMNLTVFGGTVTAFLGIP  
YAQPPLGRLRFKKPQSLTKWSDIWNATKYANSCCQNI DQSFPGFHGSEMWNPTDLS EDC  
LYLNVWIPAPKPKNATVLIWIYGGGFQTGTSSLHVYDGKFLARVERVIVSMNYRVGALG  
FLALPGNPEAPGNMGLFDQQLALQWVQKNIAAFGGNPKSVTLFGESAGAA SVSLHLLSPG  
SHSLFTRAILQSGSFNAPWAVTSLYEARNRTLNLAKLTGCSRENETEIIKCLRNKDPQEI  
LLNEAFVVPYGTPLSVNFGPTVDGDFLTDMPDILLELGQFKKTQILVG VNKDEGTAFLVY  
GAPGFSKDNNIIITRKEFQEGLKIFFPGVSEFGKESILFHYTDWDDQRPENYREALGDV  
VGDNFICPALEFTKKFSEWGNAFFYYFEHRSSKLPWP EWMGMVHGYEIEFVFGLPLER  
RDNYTKAE EILSR SIVKRWANFAKYGNPNETQNNSTSWPVFKSTEQKYLT LNTESTRIMT  
KLRAQQCRFWTSFFPKVLEMTGNIDEAEWEWKAGFHRWNNYMMDWKNQFNDYTSKKESCV  
GL

>sp|Q96FZ7|CHMP6\_HUMAN Charged multivesicular body protein 6 OS=Homo sapiens GN=CHMP6 PE=1 SV=3

MGNLFGRKKQSRVTEQDKAILQLKQQRDKLRQYQKRIAQQLE RERALARQLLRDGRKERA  
KLLKKKKRYQEQLLDR TENQISSLEAMVQSIEFTQIEMKVM EQLQFGNECLNMHQVMSI

EEVERILDETQEAWEYQRQIDELLAGSFTQEDEDAILEELSAITQEQIELPEVPSEPLPE  
KIPENVPVKARPRQAELVAAS

>sp|Q9BUW7|CI016\_HUMAN UPF0184 protein C9orf16 OS=Homo sapiens GN=C9orf16 PE=1 SV=1

MSGPNGDLGMPVEAGAEGEEDGFGEAEYAAINSMLDQINSCLDHLEEKNDHLHARLQELL  
ESNRQTRLEFQQQLGEAPSDASP

>sp|Q5SZB4|CI050\_HUMAN Uncharacterized protein C9orf50 OS=Homo sapiens GN=C9orf50 PE=2  
SV=1

MFWRRLRPGAQDLAPKGLPGDGFRRSSDPRLPKLTPPALRAALGARGSGDWRIPEGGAA  
WWPEGDAKPGVGVGRLLPPRLPALLTATRRVRKRGLLRSLPPPLLSAGASRESAPRQPG  
PGERERPRRRVAREDPDFLGAFLGELLPSRFREFLHQLQEKAEEPEPLTSPAPQHQRGV  
LEHCPGSPRCNCSFLPDLWGQSSHLQDSLTKISLQQTPILGPLKGDHSQFTTVRKANHR  
PHGAQVPRLKAALTHNPSGEGSRPCRQRCFVRVFADETLQDITLRYWERRRSVQQSVIV  
NQKAALPVASERVFGSVGKRLESPLKALYPGAKEETLASSSCWDCAGLSTQKTQGYLSED  
TSMNSSLPFCSWKAAAQRPRSSLRAFLDPHRNLEQESLLPNRVLQSVLKQGCCKGYHLL  
LASATLQPKR

>sp|Q8WZB0|CI130\_HUMAN Putative uncharacterized protein encoded by LINC00476 OS=Homo  
sapiens GN=LINC00476 PE=5 SV=1

MAANATSGRPPSIALRQPEATGWRRGIPAKVATKGTQAEREQDVRSGGRARGRCVRLAKR  
CSPSSLGLRRRRRTGGRQGDQIFLGSDFRLLTPANSNPVLENPARTGSRIVIGISRER  
NLPFCGRSNLPDVSSL

>sp|Q8N6V4|CJ053\_HUMAN UPF0728 protein C10orf53 OS=Homo sapiens GN=C10orf53 PE=3 SV=3

MPKNAVILRYGPYSAAGLPVEHHTFRLQGLQAVLAIDGHEVILEKIEDWNVVELMVNEE  
VIFHCNIKDLEFGDGKLDPLCEKARIAVLNAY

>sp|Q8N1V8|CJ085\_HUMAN Uncharacterized protein encoded by LINC01561 OS=Homo sapiens  
GN=LINC01561 PE=2 SV=1

MAWRVPGVRPASTFFPQVLRASSELNRLPEGSTVGPKPDSSWEAGSQGNWGLTSSGAGQ  
DSSAQKLGILSVQISLKIWTWEKPSGWGHLHAAVTGASCCSPLSQGGAICLVTAPODKPD  
CSPCTSGH

>sp|Q5T1B1|CJ091\_HUMAN Uncharacterized protein C10orf91 OS=Homo sapiens GN=C10orf91 PE=2  
SV=2

MWSFLPGAESVSMGPVPGVSSLGACWTHDQDSGRAEDRPQAPRITQYTWVLSFLFTEKPQ  
TRTSPISHQGPQTTRALSLRQPQHPSAPASGRPRPPHSSGPDLAAPVVDQASQAAG  
RASSGLGLWEQASVSQGFRNAAFE

>sp|Q8TEF2|CJ105\_HUMAN Uncharacterized protein C10orf105 OS=Homo sapiens GN=C10orf105  
PE=2 SV=3

MSTEGPSLASSPAISPLAFLSAPVTPGTAEATDPLMLIALACIFLLLATCLLMTLCK  
PAALDPSRRRAHECMPPHGPSPSEPLRLWKRLGSLRLSLHSFRHGRPTVPRQPLPGPED  
NRSHCDYMESTKM

>sp|Q8N326|CJ111\_HUMAN Uncharacterized protein C10orf111 OS=Homo sapiens GN=C10orf111  
PE=2 SV=1

MESLQTPQHRENQDKREKEYGVKHMPMGNNAGNLEPEKRAVRVALSSATAAQNIPISSVH  
CGCSKQWRLRLPSESLQSRGQVMKRPNNILKLRNLDLLIYPWPELRRRQVASDLMSLLLL  
PAFSGLTWAPFLFLFTYLPFLNLLTVGFVSFVFLV



>sp|A6NCD4|CJ131\_HUMAN Uncharacterized protein C10orf131 OS=Homo sapiens GN=C10orf131  
PE=2 SV=3

MSEEMDNITAEELIDKHLQKDLDAEENQNVAKTLRGKVREKLKISKINKGEKSSTEQLID  
SEIHQRSKLSPQTEVSLDESLSFFILSGEESALGKSSEQRPVNRSPKCFSLGVNLQNV  
AESEEEEFMKFILTDLKVKAAEDDQEQIKKQKANIFVPSSSPVVNQKLPKDMMPR  
ILEDEGFYIQRKPEIYKKTCKNMENRLLKLEEAKCWFGESEIMSLPTPIKQSWNFRLNV  
RKEPLNPLLKTIYRKL

>sp|Q6ZST8|CK055\_HUMAN Putative uncharacterized protein encoded by LINC00610 OS=Homo  
sapiens GN=LINC00610 PE=5 SV=1

MMRSIFLPHRKLICSRRGHLDPGRWEDEKILVPDAIPTLPPYVFIRTDQACVKVYPGFV  
LIRNGKTHRRGDCHEEVCAHRTLETGGMACHVGPHEGEPGLWGFWSWKQVLFPLPVD  
H

>sp|Q07065|CKAP4\_HUMAN Cytoskeleton-associated protein 4 OS=Homo sapiens GN=CKAP4 PE=1  
SV=2

MPSAKQRGSKGGHGAASPSEKGAHPSGGADDVAKKPPAPQQPPPPAPHPQQHPQQHPQ  
NQAHGKGGHRRGGGGGGKSSSSSSASAAAAAASSSASCSRRLGRALNFLFYALVAAA  
AFSGWCVHHVLEEQQVRRSHQDFSRQREELGQGLQGVEQKVQSLQATFGTFESILRSSQ  
HKQDLTEKAVKQGESEVSRISEVLQKLQNEILKDLSDGIHVVKDARERDFTSLENTVEER  
LTELTKSINDNIAIFTEVQKRSQKEINDMKAKVASLEESEGNKQDLKALKEAVKEIQTSA  
KSREWDMEALRSTLQTMESDIYTEVRELVSCLKQEQAFKEAADTERLALQALTEKLLRSE  
ESVSRLPEEIRRLEEELRQLKSDSHGPKEDGGFRHSEAFEALQKQSGLDLRLQHVEDGV  
LSMQVASARQTESLESLLSKSQEHEQRLAALQGRLEGLGSSEADQDGLASTVRSLETQL  
VLYGDVEELKRSVGELPSTVESLQKVQEQVHTLLSQDQAQAARLPPQDFLDRLSSLDNLK  
ASVSQVEADLKMLRTAVDSLVAYSVKIETNENNLESAKGLLDDLRLDLRDLFVKVEKIHE  
KV

>sp|Q96MX0|CKLF3\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 3 OS=Homo  
sapiens GN=CMTM3 PE=1 SV=1

MWPPDPDPDPPEPAGGSRPGPAVPLRALLPARAFLCSLKGRLLLAESGLSFITFICYV  
ASSASAFLTAPLLEFLALYFLFADAMQLNDKWQGLCWPMMDFLRCVTAALIYFAISITA  
IAKYSYGASKAAGVFGFFATIVFATDFYLIIFNDVAKFLKQGDSADETTAHKTEENSDDSD  
SD

>sp|Q8IZV2|CKLF8\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 8 OS=Homo  
sapiens GN=CMTM8 PE=1 SV=2

MEEPQRARSHTVTTTASSFAENFSTSSSSSFAYDREFLRTLPGFLIVAEIVLGLLVWTLIA  
GTEYFRVPAFGWVMFVAVFYWVLTVFLLIIYITMTYTRIPQVPWTTVGLCFNGSAFVLYL  
SAAVVDASSVSPERDSHNFNNSWAASSFFAFLVTICYAGNTYFSFIAWRSRTIQ

>sp|Q8N999|CLO29\_HUMAN Uncharacterized protein C12orf29 OS=Homo sapiens GN=C12orf29 PE=1  
SV=2

MKRLGSVQRKMPCVVFTEVKEEPSSKREHQPFKVLATETVSHKALDADIYSAIPTKVDG  
TCCYVTTYKQPYLWARLDRPNKQAEKRKFNFLHSEKPNKEFFWNVEEDFKPAPECWIP  
AKETEQINGNPVPDENHPIGWVPVEKNNKQYCWHSVVNYEFEIALVLKHHPPDDSGLLE  
ISAVPLSDLLEQTLELIGTNINGNPYGLGSKKHPLHLLIPHGAFAQIRNPLSKHNDLVSW  
FEDCKEGKIEGIVWHCSDGCLIKVHRHHLGLCWPIPDTYMNSRPV IINMNLNKCDFAFDI  
KCLFNHFLKIDNQKFVRLKDIIFDV

>sp|Q8IU9|CLC10\_HUMAN C-type lectin domain family 10 member A OS=Homo sapiens GN=CLEC10A  
PE=2 SV=1

MTRTYENFYLENKVKVQGFKNGPLPLQSLQRLCSGPCHLLLSLGLGLLLLVIICVVG  
QNSKFQRDLVTLRTDFSNFTSNTVAEIQALTSQSSLEETIASLKAEEVEGFKQERQAGVS  
ELQEHTTQKAHLGHCPHCPVSVVHSEMLLRVQQLVQDLKKLTCQVATLNNASTEGTC  
CPVNWVEHQDSCYWFSHSGMSWAEAEKYCQLKNAHLVVINSREEQNFVQKYLGSAYTWMG  
LSDPEGAWKWVDGTDYATGFQNWKPGQDDWQGHGLGGGEDCAHFHPDGRWNDDVCQRPY  
HWVCEAGLGQTSQESH

>sp|Q9P126|CLC1B\_HUMAN C-type lectin domain family 1 member B OS=Homo sapiens GN=CLEC1B  
PE=1 SV=2

MQDEDGYITLNIKTRKPAISVGSASSSWVRMALILLILCVGMVGLVALGIWSVMQRN  
YLQGENENRTGTLLQAKRFQYVVKQSELKGTGFKGHKCSPCDTNWRYYGDSYGFRRHN  
LTWEESKQYCTDMNATLLKIDNRNIVEYIKARTHLIRWVGLSRQKSNEVWKWEDGSGVISE  
NMFEFLEDGKGNMNCAYFHNGKMHPTFCENKHYLMCERKAGMTKVDQLP

>sp|POC7M8|CLC2L\_HUMAN C-type lectin domain family 2 member L OS=Homo sapiens GN=CLEC2L  
PE=3 SV=1

MEPAREPPSRARPPPLAARPAPAPAAPRPRSPAEEARGPEGLLRSGSGYEGSTSWKA  
ALEDTTTRLLLGAIAVLLFAILVMSILASKGCIKCEAPCPEDWLLYGRKCYFFSEEP  
WNTGRQYCHTHEAVLAVIQSQKELEFMFKFTRREPWIGLRRVGDEFHWVNGDPDPDTFT  
IAGPGECVFVEPTRLVSTECLMTRPWVCSKMAYT

>sp|Q9ULY5|CLC4E\_HUMAN C-type lectin domain family 4 member E OS=Homo sapiens GN=CLEC4E  
PE=1 SV=1

MNSSKSSETQCTERGCFSSQMFLWTVAGIPIILFLSACFITRCVVTFRIFQTCDEKKFQLP  
ENFTELSCYNYGSGSVKNCCPLNWEYFQSSCYFFSTDTISWALSLKNCSAMGAHLVVINS  
QEEQEFLSYKKPKMREFFIGLSDQVVEGQWQWVDGTPLTKSLSFWDVGEPNNIATLEDCA  
TMRDSSNPRQNWNDVTCFLNYFRICEMVGINPLNKGKSL

>sp|Q9UJ71|CLC4K\_HUMAN C-type lectin domain family 4 member K OS=Homo sapiens GN=CD207  
PE=1 SV=2

MTVEKEAPDAHFTVDKQNISLWPREPPKSGPSLVPGKTPVRAALICLTLVLVASVLLQ  
AVLYPRFMGTISDVKTNVQLLGRVDNISTLDSEIKKNSDGMEAAGVQIQMVNESLGYVR  
SQFLKLKTSVEKANAQIQILTRSWEEVSTLNAQIPELKSDEKASALNTKIRALQGSLEN  
MSKLLKRQNDILQVVSQGWKYFKGNFYFSLIPKTWYSAEQFCVSRNSHLTSVTSESEQE  
FLYKTAGGLIYWIGLTKAGMEGDWSWDDTPFNKVQSVRFWIPGEPNAGNNEHCGNIKA  
PSLQAWNDAPCDKTFLFICKRPYPVSEP

>sp|Q9NY25|CLC5A\_HUMAN C-type lectin domain family 5 member A OS=Homo sapiens GN=CLEC5A  
PE=1 SV=1

MNWHMIISGLIVVLKVVGMTLFLLYFPQIFNKSNDGFTTTRSYGTVSQIFGSSSPSPNG  
FITTRSYGTVCPKDWEFYQARCFLLSTSESSWNESTRDFCKGKSTLAIVNTPEKLKFLQD  
ITDAEKYFIGLIYHREEKRWRWINNSVFNGNVTNQNFNCATIGLTKTFDAASCDISYR  
RICEKNAK

>sp|Q6UXN8|CLC9A\_HUMAN C-type lectin domain family 9 member A OS=Homo sapiens GN=CLEC9A  
PE=1 SV=1

MHEEEIYTSLQWDSAPDQYKCLSSNKCAGCLVMVISCVFCMGLLTASIFLGVKLLQ  
VSTIAMQQQEKLIQKERALLNFTWKRSCALQMKYCQAFMQNSLSSAHNSSPCPNNWIQN

RESCYYVSEIWSIWHTSQENCLKEGSTLLQIESKEEMDFITGSLRKIKGSYDYWVGLSQD  
GHSGRWLWQDGSSPSPGLLPAERSQSANQVCGYVKSNSLLSSNCSTWKYFICEKYALRSS  
V

>sp|A8K7I4|CLCA1\_HUMAN Calcium-activated chloride channel regulator 1 OS=Homo sapiens  
GN=CLCA1 PE=1 SV=3

MGPFKSSVFILILHLLLEGALSNSLIQLNNGYEGIVVAIDPNVPEDETLIQQIKDMVTQA  
SLYLLEATGKRFYFKNVAILIPETWTKADYVRPKLETYKNADVLVAESTPPGNDEPYTE  
QMGNCGEKGERIHLTPDFIAGKKLAEYGPQGAFVHEWAHLRWGVFDEYNDEKFYLSNG  
RIQAVRCSAGITGTNVVKKCQGGSCYTKRCTFNKVTGLYEKGCEFLQSRQTEKASIMFA  
QHVDSEIVEFCTEQNHKEAPNKQNKCNLRSTWEVIRDSEDFKKTTPMTTQPPNPTFSL  
QIGQRIVCLVLDSGSMATGNRLNRLNQAGQLFLLQTVELGSWGMVTFDSAHHVQNELI  
QINSGSDRDTLAKRLPAAASGGTICSGLRSAFTVIRKKYPTDGSEIVLLTDGEDNTISG  
CFNEVKQSGAI IHTVALGPSAAQEEELSKMTGGLQTYASDQVQNNGLIDAFGALSSGNG  
AVSQRSIQLESKGLTLQNSQWMNGTVIVDSTVGKDTLFLITWTMPPQILLWDPGQKQG  
GFVVDKNTKMAYLQIPGIAKVGWTKYSLQASSQTLTLVTSRASNATLPPITVTSKTNKD  
TSKFPSPLVVYANIRQGASPILRASVTALIESVNGKTVTLELLDNGAGADATKDDGVYSR  
YFTTYDNGRYSVKVRALGGVNAARRRVIPQQSGALYIPGWIENDEIQWNPPRPEINKDD  
VQHKQVCFSRSTSSGGSFVASDVPNAPIPDLFPPGQITDLKAEIHGGSLINLTWTAPGDDY  
DHGTAHKYIIRISTSILDLRDKFNESLQVNTTALIPKEANSEEVFLFKPENITFENGTDL  
FIAIQAVDKVDLKEISNIRVSLFIPPQTPPETPSPDETSAPCPNIHINSTIPGIHILK  
IMWKWIGELQLSIA

>sp|Q9UQC9|CLCA2\_HUMAN Calcium-activated chloride channel regulator 2 OS=Homo sapiens  
GN=CLCA2 PE=1 SV=2

MTQRSIAGPICNLKFVTLVALSSELPLGAGVQLQDNGYNGLLIAINPQVPENQNLISN  
IKEMITEASFYLFNATKRRVFFRNILIPATWKANNNSKIKQESYEKANVIVTDWYGAH  
GDDPYTLQYRGCCKEGKYIHFTPNFLNDNLTAGYGSRGVRFVHEWAHLRWGVFDEYNND  
KPFYINGQNKIKVTRCSSDITGIFVCEKGPCPQENCII SKLFKEGCTFIYNSTQNATASI  
MFMQSLSSVVEFCNASTHNQEAAPNLQNMCSLRSADVITDSADFHHSFPMNGTELP  
TFSLVQAGDKVCLVLDSKMAEADRLQLLQAAEFYLMQIVEIHTFVGIAFDSKGEI  
RAQLHQINSNDDRKLVSYPPTVSAKTDISICSLKKGFVVEKLNKAYGSVMILVTS  
GDDKLLGNCLPTVLSSGSTIHSIALGSSAAPNLEELSRLTGGLKFFVPDISNSNSMIDAF  
SRISSTGTDIFQQHIQLESTGENVKPHQLKNTVTVDNTVGNDTMFLVTWQASGPPEIIL  
FDPDGRKYTTNNFITNLTFRTASLWIPGTAKPGHWYTLNTHHSLQALKVTVTSRASNS  
AVPPATVEAFVERDSLHFPHPVMIYANVKQGFYPILNATVTATVEPETGDPVTLRLDDG  
AGADVKNKDIYSRYFFSFAANGRYSLKVHVNHSPISTPAHSIPGSHAMYVPGYTANGN  
IQMNAPRKSVGRNEEERKWFGRVSSGGSFVLPAGPHPDVFPCKIIDLEAVKVEEE  
LTLSWTAPGEDFDQQAQTSYEIRMSKSLQNIQDDFNAILVNTSKRNPQQAGIREIFTFS  
PQISTNGPEHQNGETHESHRIYVAIRAMDRNSLQSAVSNIQAAPLFIPPNSDPVPARDY  
LILKGVLTAMGLIGIICLIIVVTHHTLSRKKRADKKENGTKLL

>sp|P09497|CLCB\_HUMAN Clathrin light chain B OS=Homo sapiens GN=CLTB PE=1 SV=1

MADDFGFFSSSESGAPEAAEEDPAAAFLAQGESEIAGIENDEGFGAPAGSHAAPAPGPT  
SGAGSEDMGTTVNGDVFQEANGPADGYAAIAQADRLTQEPESIRKWREEQRKRLQELDAA  
SKVTEQEWREKAKKDLLEWNRQSEQVEKNINNRIADKAFYQQPDADIIIGYVASEEAFV  
KESKEETPGTEWEKVAQLCDFNPKSSKQCKDVSRLRSVLSLQKTPLSR

>sp|P51788|CLCN2\_HUMAN Chloride channel protein 2 OS=Homo sapiens GN=CLCN2 PE=1 SV=2

MAAAAAEEGMEPRALQYEQTLMYGRYTQDLGAFKEEAARIRLGGPEPWKGPPSSRAAPE  
LLEYGRSRCARCVCSVRCHKFLVSRVGEDWIFLVLLGLLMALVSWMDYATAACLQAQQ  
WMSRGLNTSILLQYLAWVTYPVVLITFSAGFTQILAPQAVGSGIPEMKTILRGVVLKEYL  
TLKTFIAKVIGLTCALGSGMPLGKEGPFVHIASMCALLSKFLSLFGGIYENESRNTEML  
AAACAVGVGCCFAAFIGGVLFSEVTSTFFAVRNYWRGFFAATFSAFIFRVLAVWNRDEE  
TITALFKTRFRLDFPDLQELPAFAVIGIASGFGGALFVYLNKIVQVMRKQKTINRFLM  
RKRLFPALVTLLISTLTFPPGFGQFMAGQLSQKETLVTLFDNRTWVRQGLVEELEPPST  
SQAWNPPRANVFLTLVIFILMKFWSALATTIPVPCGAFMPVFVIGAAFGRLVGESMAAW  
FPDGIHTDSSTYRIVPGGYAVVGAALAGAVTHTVSTAVIVFELTGQIAHILPVMIAVIL  
ANAVAQSLQPSLYDSIIRIKKLPYLPGLWGRHQYRVRVEDIMVRDVPVALSCTFRDL  
RLALHRTKGRMLALVESPEMILLGSIERSQVVALGAQLSPARRRQHMQRATQTSP  
SDQEGPPTPEASVCFQVNTEDSAFPAARGETHKPLKPAKRGPSVTRNLGESPTGSAESA  
GIALRSLFCGSPPEAASEKLESCERKLKRVIRSLASDADLEGEMSPREELEWEEQQLD  
EPVNFSDCKIDPAPFQLVERTSLHKHTHTIFSLGVDHAYVTSIGRLIGIVTLKELRKAIE  
GSVTAQGVKVRPPLASFSDSATSSSDTETTEVHALWGPSRHGLPREGSPSDSDDKCQ

>sp|095500|CLD14\_HUMAN Claudin-14 OS=Homo sapiens GN=CLDN14 PE=1 SV=1

MASTAVQLLGFLLSFLGMVGLTITLPHWRRTAHVGTNILTAVSYLKGLWMECVWHSTG  
IYQCQIYRSLALPQDLQAARALMVISCLLSGIACACAVIGMKCTRCAKGTAKTTFAIL  
GGTLFILAGLLCMVAVSWTTNDVVQNFYNPLPSGMKFEIGQALYLGFISSSLSLIGGTL  
LCLSCQDEAPYRYPYQAPPRATTTTANTAPAYQPPAAYKDNRAPSVTSATHSGYRLNDYV

>sp|P56746|CLD15\_HUMAN Claudin-15 OS=Homo sapiens GN=CLDN15 PE=1 SV=1

MSMAVETFGFFMATVGLLMLGVTLPNVSYWRVSTVHGNVITNTIFENLWFSCATDSLGVY  
NCWEFPMLALSGYIQACRALMITAILLGLGLLLGIAGLRCTNIGGLELSRKAKLAATA  
GALHILAGICGMVAISWYAFNITRDFDPLYPGTKYELGPALYLGWSASLISILGGLCLC  
SACCCGSDPAASARRPYQAPVSVMPVATSDQEGDSSFGKYGRNAYV

>sp|P56856|CLD18\_HUMAN Claudin-18 OS=Homo sapiens GN=CLDN18 PE=2 SV=1

MSTTTCQVVAFLLSILGLAGCIAATGMDMWSTQDLYDNPVTSVFQYEGLRSCVRQSSGF  
TECRPYFTILGLPAMLQAVRALMIVGIVLGAIGLLVSIFALKCIRIGSMEDSAKANMTLT  
SGIMFIVSGLCAIAGVSFANMLVTNFWMSTANMYTGMGMVQTVQTRYTFGAALFVGWV  
AGGLTLIGGVMMCIACRGLAPEETNYKAVSYHASGHSVAYKPGGFKASTGFGSNTKNKKI  
YDGGARTEDEVQSYPSKHDYV

>sp|P57739|CLD2\_HUMAN Claudin-2 OS=Homo sapiens GN=CLDN2 PE=1 SV=1

MASLGLQLVGYYLGLLGLTLVAMLLPSWKTSSYVGASIVTAVGFSKGLWMECATHSTG  
ITQCDIYSTLLGLPADIQAAQAMMVTSSAIISSLACIIISVGMRCVFCQESRAKDRVAVA  
GGVFFILGGLLGFIPVAVNLHGILRDFYSPLVPDSMKFEIGEALYLGIISSLSLIAGII  
LCFSCSSQRNRSNYDAYQAQPLATRSSPRPGQPPKVKSEFNYSYSLTGIV

>sp|P49759|CLK1\_HUMAN Dual specificity protein kinase CLK1 OS=Homo sapiens GN=CLK1 PE=1 SV=2

MRHSKRTYCPDWDDKDWDYGKWRSSSSHKRRKRSHSSAQENKRCYNHSMCDSHYLESR  
SINEKDYHSRRYIDEYRNDYTQGECPGHRQRDHESRYQNHSSKSSGRSGRSSYKSKHRIH  
HSTSHRRSHGKSHRRKRTRSVEDDEEGLICQSGDVLARYEIVDTLGEAGFGKVVECID  
HKAGGRHVAVKIVKNVDRYCEARSEIQVLEHLNTDPNSTFRVCQMLEWFEHHGHICIV  
FELLGLSTYDFIKENGFLPFRLDHIRKMAYQICKSVNHLHSNKLTHDLKPENILFVQSD

YTEAYNPKIKRDERTLINPDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPC  
DVWSIGCILIEYYLGFTVFPTHDSKEHLAMMERILGPLPKHMIQKTRKRKYFHHDRLDWD  
EHSSAGRYVSRCKPLKEFMLSQDVEHERLFDLIQKMLEYDPAKRITLREALKHPFFDLL  
KCSI

>sp|P49761|CLK3\_HUMAN Dual specificity protein kinase CLK3 OS=Homo sapiens GN=CLK3 PE=1  
SV=3

MPVLSARRRELADHAGSGRRSGPSPTARSGPHLSALRAQPARAAHLSGRGTYVRRDTAGG  
GPGQARPLGPPGTSLLGRGARRSGEGWCPGAFESGARAARPPSRVEPRLATAASREGAGL  
PRAEVAAGSGRGARSGEWGLAAGAWETMHHCKRYRSPEPDYLSYRWKRRRSYSREHEG  
RLRYPSSREPPRRRSRSRSHDRLPYQRRYRERRSDTYRCEERSPSFGEDYYGPSRSRHR  
RRSRERGPYRTRKHAHHCHKRRTRSCSSASSRSQQSSKRSSRSVEDDKEGHLVCRIGDWL  
QERYEIVGNLGEFTGKVVVECLDHARGKSQVALKIIRNVGKYREARLEINVLLKKIKEKD  
KENKFLCVLMSDWFNFHGHMCIAFELLGKNTFEFLKENNFQPYPLPHVRHMAYQLCHALR  
FLHENQLTHTDLKPENILFVNSEFETLYNEHKSCEEKSVKNTSIRVADFGSATFDHEHHT  
TIVATRHYRPPEVILELGWAQPCDVWSIGCILFEYYRGFTLFQTHENREHLVMMKILGP  
IPSHMIHRTRKQKYFYKGLVWDENSSDGRYVKENCKPLKSYMLQDSLEHVQLFDLMRRM  
LEFDPAQRITLAEALLHPFFAGLTPEERSFHTSRNPSR

>sp|A8K4G0|CLM7\_HUMAN CMRF35-like molecule 7 OS=Homo sapiens GN=CD300LB PE=1 SV=2

MWLPPALLLSLSCFSIQGPESVRAPEQGS�TVQCHYKQGWETIYKWWCRGVRWDTCKI  
LIETRGSEQGEKSDRVSİKDQKDRFTFTVMEGLRRDDADVWCGİERRGPDŁGTQVKVI  
VDPEGAASTASSPTNSNMAVFIGSHKRNHYMLLVFVKVPİLLİLVTAILWLKGSQRVPE  
EPGEQPIYMFSEPLTKDMAT

>sp|P58418|CLRN1\_HUMAN Clarin-1 OS=Homo sapiens GN=CLRN1 PE=1 SV=2

MPSQQKKIIFCMAGVFSFACALGVVTALGTPLWİKATVLCKTGALLVNASGQELDKFMGE  
MQYGLFHGEVVRQCLGARPPRFSSFPDLLKAİPVSIHVNİLFSAILİVLTMVGTAFFM  
YNAFGKPFETLHGPLGLYLLSFİSGSCGCLVMİLFASEVKİHHLSEKİANYKEGTİYVYKT  
QSEKYTTSFWVİFFCFFVHFLNGLİRLAGFQFPFAKSKDAETTİNVAADLMY

>sp|Q9NS75|CLTR2\_HUMAN Cysteinyl leukotriene receptor 2 OS=Homo sapiens GN=CYSLTR2 PE=1  
SV=1

MERKFMSLQPSİSVSEMEPNGTFSNNNSRNCTİENFKREFFPİVYLİİFFWGVLGNGLSİ  
YVFLQPYKKSTSVNVFMLNLAİSDLLFİSTLPFRADYİLRGSNWİFGDLACRİMSYSLYV  
NMYSSİYFLTİVLSVVRFLAMVHPFRLLHVTSİRSAWİLCGİİWİLİMASSİMLLDGSEQ  
NGSVTSCLELNLYKİAKLQTMNYİALVVGCLLPFFTLİCYLLİİRVLLKVEVPESGLRV  
SHRKALTTİİİTLİİFFLCFLPYHTLRİTVHLTTWKVGLCKDRLHKALVİTLALAAANACF  
NPLLYYFAGENFKDRLKSALRKGHPQKAKTKCVFPVSVWLRKETRV

>sp|Q5SYC1|CLVS2\_HUMAN Clavesin-2 OS=Homo sapiens GN=CLVS2 PE=2 SV=1

MTHLQAGLSPETLEKARLELNENPDTLHQDIQEVDMVİTRPDİGFLRTDDAFİLRFİLRA  
RKFHHEAFRLLAQYFEYRQQNİDMFKSFKATDPGİKQALKDGFPGGLANLDHYGRKİLV  
LFAANWDQSRYTLVDİLRAİLLSLEAMİEDPELQVNGFVLİİDWSNFTFKQASKLTPSML  
RLAİEGLQDSFPARFGGİHFVNQPWYİHALYTVİRPFLKEKTRKRFİLHGNNLNSLHQLI  
HPEİLPSEFGGMLPPYDMGTWARTLLDHEYDDSEYNVDSYSMPVKEVEKELSPKSMKRS  
QSVVDPTVLKRMĐKNEENMQPLLSLD

>sp|Q96DG6|CMBL\_HUMAN Carboxymethylenebutenolidase homolog OS=Homo sapiens GN=CMBL PE=1  
SV=1

MANEAYPCPCDIGHRLEYGGLGREVQVEHIKAYVTKSPVDAGKAVIVIQDIFGWQLPNTR  
YIADMISGNGYTTIVPDFVVGQEPWDPSPGDWSIFPEWLKTRNAQKIDREISAILKYLKQQ  
CHAKKIGIVGFCWGGTAVHHLMMKYSEFRAGVSVYGIVKDSEDIYNLKNPTLFIFAENDV  
VIPLKDVSLLTQKLKEHCKVEYQIKTFSGQTHGFVHRKREDCSPADKPYIDEARRNLIEW  
LNKYM

>sp|Q9UJS0|CMC2\_HUMAN Calcium-binding mitochondrial carrier protein Aralar2 OS=Homo sapiens GN=SLC25A13 PE=1 SV=2

MAAAKVALTKRADPAELRTIFLKYASIEKNGEFFMSPNDFVTRYLNIFGESQPNPKTVEL  
LSGVVDQTKDGLISFQEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQVFGQTT  
IHQHIFPNWDSEFVQLHFGKERKRHLTYAEFTQFLEIQLEHAKQAFVQRDNARTGRVTA  
IDFRDIMVTIRPHVLTPEVEECLVAAAGGTTSHQVSFSYFNGFNSLLNMELIRKIYSTL  
AGTRKDVEVTKEEFVLAQKFGQVTPMEVDILFQLADLYEPRGRMTLADIERIAPLEEGT  
LPFNLAEAQRQKASGDSARPVLLQVAESAYRFGLSVAGAVGATAVYPIDLVKTRMQNQR  
STGSFVGELMYKNSFDCFKKVLRYEGFFGLYRGLLPQLLQVAPKAIKLTVNDFVRDKFM  
HKDGSVPLAAEILAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALSVVRDLGFF  
GIYKGAKACFLRDIPFSAIYPCYAHVKASFANEDGQVSPGSLLLAGAIAGMPAASLVTP  
ADVIKTRLQVAARAGQTTYSGVIDCFRKILREEGPKALWKAGARVFRSSPQFGVTLLTY  
ELLQRWFYIDFGGVKPMGSEPVPKSRINLPAPNPDHVGGYKLAVATFAGIENKFGLYLPL  
FKPSVSTSKAIGGGP

>sp|O94983|CMTA2\_HUMAN Calmodulin-binding transcription activator 2 OS=Homo sapiens GN=CAMTA2 PE=1 SV=3

MNTKDTTEVAENSHHLKIFLPKKLLECLPRCPLPPERLRWNTNEEIASYLITFEKHDEW  
LSCAPKTRPQNGSIILYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLVQGMCELYGCVV  
HSSIVPTFHRRCYWLLQNPDIVLVHYLNVPALDCGKGCSPIFCSISSDRREW LKWSREE  
LLGQLKPMFHGIKWSCGNGTEEFVVEHLVQQILDTHPTKPAPRTHACLCSGGLGSGSLTH  
KCSSTKHRIISPKEPRALTLTSIPHAHPPEPPPLIAPLPELPKAHTSPSSSSSSSSSG  
FAEPLAIRPSPTSRGGSSRGGTAILLLTGLEQRAGGLTPTRHLAPQADPRPSMSLAVVV  
GTEPSAPPAPPSPAFDPDRFLNSPQRGQTYGGGQGVSPDFPEAAHAHTPCSALEPAAALE  
PQAAARGPPPPQSVAGGRRGNCFFIQDDDSGEELKGHGAAPPISPPPSPPPSAPLEPSS  
RVGRGEALFGGPVGASELEPFSLSFPDLMGELISDEAPSIPAPTPQLSPALSTITDFSP  
EWSYPEGGVKVLITGPWTEAAEHYSCVFDHIAVPASLVQPGVLRCYCPAHEVGLVSLQVA  
GREGPLSASVLFYRARRFLSLPSTQLDWLSLDDNQFRMSILERLEQMEKRMAEIAAAGQ  
VPCQGPDAPPVQDEGQGPGEARVVVLVESMIPRSTWKGPERLAHGSPFRGMSLLHLAAA  
QGYARLIETLSQWRSVETGSLDLEQEVDPNVDFHSCPTLMWACALGHLEAAVLLFRWNR  
QALSIPDSLGRPLPSVAHSRGHVRLARCLEELQRQEPSVEPPFALSPPSSSPDTGLSSVS  
SPSELSDGTFSVTSAYSSAPDGSPPPAPLPASEMTMEDMAPGQLSSGVPEAPLLLMDYEA  
TNSKGPLSSLPALPPASDDGAAPEDADSPQAVDVIPVDMISLAKQII EATPERIKREDFV  
GLPEAGASMRERTGAVGLSETMSWLASYLENVDHFPSSSTPPSELPERGRLAVPSAPSWA  
EFLSASTSGKMESDFALLTSLDHEQRELYEAAARVIQTAFRKYKGRRLKEQQEVA AAVIQR  
CYRKYQLTWIALKFALYKMTQAAILIQSKFRSYYEQKRQQSRRAAVLIQQHYRSYRR  
RPGPPHRTSATLPARNKGSFLTCKQDQAARKIMRFLRRCRHRMRELKQNQELEGLPQPGL  
AT

>sp|Q8N1G2|CMTR1\_HUMAN Cap-specific mRNA (nucleoside-2'-O-)-methyltransferase 1 OS=Homo sapiens GN=CMTR1 PE=1 SV=1

MQGRRELGGPEPLSDLQEEAASASLRVAPERLSDDSLWRRTPCDLLSDGKASISMPREG  
GSTCTARCPDPGEHSSTWGEFEGFRESSAKSGQFSQSLELLEGPTEPQPRTTSAPKECS  
SHQPCQGGPWVTGTSVAPPSEPILSYENILKCAFQEITVQQAEDVSTIDHFLEISSEEK  
PGVERVHKLNCNESRKLWRALQSIIHTTSTSQRWSESRCQENFFVLGIDAAQKNLSGGQG  
HIMEDCDLKEPEGLLTVSSFCLOHCKALIQTKLSGPPGSKQGRMLTCSRFLKTPSCGGGQ

HITIPRKRMTFPRKLKLTfNSDVC

>sp|Q9H972|CN093\_HUMAN Uncharacterized protein C14orf93 OS=Homo sapiens GN=C14orf93 PE=1 SV=1

MSFSATILFSPPSGSEARCCCCACKSETNGGNTGSQGGNPPSTPITVTGHGLAVQSSEQ  
LLHVIYQRVDKAVGLAEAAALGLARANNELLKRLQEEVGDLRQGKVSIPDEDGESRAHSSP  
PEEPGPLKESPGAEAFKALSAVEEECDSVGSGVQVVEELRQLGAASVGPGLGFPATQRD  
MRLPGCTLAASEAAPLLNPLVDDYVASEGAVQRLVPAYAKQLSPATQLAIQRATPETGP  
ENGTKLPPRPEDMLNAAAALDSALEESGPGSTGELRHSGLTVSPCTRGSQKNSRRK  
RDLVLSKLVHNVHNHITNDKRFNGSESIKSSWNISVVKFLEKLKQELVTSPhNYTDKEL  
KGACVAYFLTKRREYRNSLNPFGKLEKEEKKLRSRRYRLFANRSSIMRHFGPEDQRLWN  
DVTEELMSDEEDSLNEPGVWVARPPRFRAQRLTELCYHLDANSKHGTKANRVYGPSPDRL  
PSAEAQLLPPELYNPNFQEEDEGGDENAPGSPSFDQPHKTCPPDLNSFIEIKVEKDE

>sp|Q86U02|CN165\_HUMAN Putative uncharacterized protein encoded by LINC00596 OS=Homo sapiens GN=LINC00596 PE=5 SV=1

MFTLLLSNYYSRLEGWMDNNFSHHWKMFPTESTVFCLFVYLFIFVFETASGFVAQT  
GVHWCNLGSLQLPPGFKRFSCSLPSSLDYRHAPPCLANFYIFSGDRVSPCWPDWS

>sp|Q52M58|CN177\_HUMAN Putative uncharacterized protein C14orf177 OS=Homo sapiens GN=C14orf177 PE=2 SV=1

MHRKEPGARLEATRGAARPHKQGKTkPMITRPSVSQLGEGKCPSSQHLQSLRHnkQHAlTL  
TKARCCGECSTCFCTEEKSECQRHEETSPGSCNHQIMSASTISAFCATPRFKQLFKGTVE  
QMSQM

>sp|Q15021|CND1\_HUMAN Condensin complex subunit 1 OS=Homo sapiens GN=NCAPD2 PE=1 SV=3

MAPQMYYEFHLPLSPEELLKSGGVNQYVVQEVLSIKHLPPQLRAFQAAFRAQGPLAMLQHF  
DTIYSILHHFRSIDPGLKEDTLQFLIKVVSrHSQELPAILDDTTLGSDRNAHLNALKMN  
CYALIRLLESFETMASQTNLVDLDLGGKGKKARTKAAHGFDWEEERQPILQLLTQLLQLD  
IRHLWNHSIIIEEFVSLVTGCCYRLLENPTINHQKNRPTREAITHLLGVALTRYNHMLSA  
TVKIIQMLQHFEHLAPVLVAASLWATDYGmKSIVGEIVREIGQKCPQELSRDPSGTKGF  
AAFLTELAERVPAILMSSMCILLDHLdGENYMMRNAVLAAMAEMVLQVLSGDQLEAAARD  
TRDQFLDTLQAHGHDVNSFVRSrVLQLFTRIVQQKALPLTRFQAVVALAVGRLADKSVLV  
CKNAIQLLASFLANNPFsCKLSADLAGPLQKETQKLQEMRAQRRTAAASAVLDPEEEWE  
AMLPELKSTLQQLQLPQGEIEPEQIANTETtedVKGRiYQLLAKASYKKAIILTREAT  
GHFQSEPFShIDPEESEETRLNLGLIFKGPAASTQEKNPRESTGNMVTGQTVCKNKP  
NMSDPEESRGNDLVKQEMLVQYLQDAYSFSRKITEAIGIISKMMYENTTTVVQEVIEFF  
VMVFQFGVPQALFGVRRMLPLIWSKEPGVREAVLNAYRQLYLNPkGDSARAKAQALIQNL  
SLLLVDASVGTIQCLEEILCEfVQKDELKPAVTQLLWERATEKVACCPLErCSSVMLLGM  
MARGKPEIVGSNLDTLVSIgLDEKFPQDYRLAQVCHAIANISDRRKPSLGRHPPFRLP  
QEHRLFERLRETVTKGfVHPDPLWIPFKEVAVTLiYQLAEGPEVICAQILQGCakQALEK  
LEEKRTSQEDPKESPAMLPtFLLMNLLSLAGDVALQQLVHLEQAVSGELCRRRVLREEQE  
HKTKDPKEKNTSSETTMEELGLVGATADDTEAEliRGICEMELLDGKQTAAfVPLLLK  
VCNNPGLYSNPdLSAAASLALGKFCMISATfCDSQLRLLFTMLEKSPLPIVRSNLMVATG  
DLAIRFPNLVDPWTPHLyARLRDPAQQVRKTAGLVMTHLiLKDMVKVKGVSEMAVLLID  
PEPQIAALAKNFFNELSHKGNAiYNLLPDIISRLSDPELGVEEPFHTIMKQLLSYITKD  
KQTESLVEKLCQRFRtSRTERQQRDLAYCVSQLPLTERGLRKMLDNfDCFGDKLSDESIF  
SAFLSVVGKLRRGAKPEGKAIIDefeQKLrACHTRGLDGIKELEIGQAGSQRAPSAKKPS



TGSRYQPLASTASDNDFVTPEPRRTTRRHPNTQQRASKKKPKVVFSSDESSEEDLSAEMT  
EDETPKKTTPILRASARRHS

>sp|P42695|CNDD3\_HUMAN Condensin-2 complex subunit D3 OS=Homo sapiens GN=NCAPD3 PE=1 SV=2

MVALRGLGSLQPWCPLDLRLWVDTVWELDFTETEPLDPSIEAEIIETGLAAFTKLYES  
LLPFATGEHGSMESIWTFFIENNVSHSTLVALFYHFVQIVHKKNVSVQYREYGLHAAGLY  
FLLLEVPGSVANQVFHPVMDKCIQTLKKSWPQESNLNRKRKKEQPKSSQANPGRHRKRG  
KPPRREDIEMDEIIIEEQEDENICFSARDLSQIRNAIFHLLKNFLRLLPKFSLKEKPQCVQ  
NCIEVFVSLTNFEPVLHECHVTQARALNQAKYIPELAYYGLYLLCSPIHGEGDKVISCVF  
HQMLSVILMLEVGEGSHRAPLAVTSQVINCRNQAVQFISALVDELKESIFPVVRILLQHI  
CAKVVDKSEYRTFAAQSLVQLLSKLPCGEYAMFIAWLYKYSRSSKIPHRVFTLDVVLALL  
ELPEREVDNTLSLEHQKFLKHKFLVQEIMFDRCLDKAPTVRSKALSSFAHCLELTVTSAS  
ESILELLINSPTFSVIESHPGTLLRNSSAFSYQRQTSNRSEPSGEINIDSSGETVGSGER  
CVMAMLRRRIRDEKTNVRKSALQVLVSILKHCDVSGMKEDLWILQDQCRDPAVSVRKQAL  
QSLTELLMAQPRCVQIQKAWLRGVVPVMDCESTVQEKALEFLDQLLQNIHSHFHSFG  
DDSQVLAWALLTLLTSESQELSRYLNAFHWSKKEKFSPTFINNVISHTGTEHSAPAWM  
LLSKIAGSSPRLDYSRIIQSWEKISSQQNPNSNTLGHILCVIGHIAKHLPKSTRDKVTDA  
VKCKLNGFQWSLEVISSAVDALQRLCRASAETPAEEQELLTQVCGDVLSTCEHRLSNIVL  
KENGTMNDEDLVKYIFTLGDIAQLCPARVEKRIFLLIQSVLASSADADHSPSSQGSSE  
APASQPPPQVRGSMPSVIRAHAIITLGKLCQHEDLAKKSIPALVRELEVCEDAVRNN  
VIIVMCDLCIRYTIMVDKYIPNISMCLKDSDPFIRKQTLILLTNLLQEEFVKWKGSLFFR  
FVSTLIDSHPDIAFSGEFCLAHLLLRNPVMFFQHFIIECIFHFNNYEKHEKYNKFPQSER  
EKRLFSLKGKSNKERRMKIYKFLLEHFTDEQRFNITSKICLSILACFADGILPLDLDAE  
LLSDTFEVLSSKEIKLLAMRSKPKDLLMEEDMALANVVMQEAQKKLISQVQKRNFIEN  
IIPIIISLKTVLEKNKIPALRELMHYLREVMQDYRDELKDDFAVDKQLASELEYDMKKYQ  
EQLVQEQLAKHADVAGTAGGAEVAPVAQVALCLETVPVPAGQENPAMSPAVSQPCTPRA  
SAGHVAVSSPTPETGPLQRLLPKARPMSTIAILNSVKKAVESKSRHRSRSLGVL PFTL  
NSGSPEKTCSQVSSYSLEQESNGEIEHVTKRAISTPEKSISDVTFGAGVSYIGTPRTPSS  
AKEKIEGRSQGNDILCLSLPDKPPPQPPQWNRSPARNKDTACSRRLRKTPLKTAN

>sp|Q96KN2|CNDP1\_HUMAN Beta-Ala-His dipeptidase OS=Homo sapiens GN=CNDP1 PE=1 SV=4

MDPKLGRMAASLLAVLLLLLGERGMFSSPSPPPALLEKVFQYIDLHQDEFVQTLKEWVAIE  
SDSVQPVPRFRQELFRMMAVAADTLQRLGARVASVDMGPQQLPDGQSLPIPIIILAE LGS  
DPTKGTVCIFYGHLDVQPADRGDWLTDYVLTVDGKLYGRGATDNKG PVLAWINAVSAF  
RALEQDLVPNIKFIIEGMEEAGSVALEELVEKEKDRFFSGVDYIVISDNLWISQRKPAIT  
YGRGNSYFMVEVKCRDQDFHSGTFGGILHEPMADLVALLGSLVDSSGHILVPGIYDEVV  
PLTEEEINTYKAIHLDLEEYRNSSRVEKFLFDTKEEILMHLWRYP SLSIHGIEGAFDEPG  
TKTVIPGRVIGKFSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSSNMVVSMTLGLHPWIA  
NIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMFQEIVHKS VVLIPLGAVDDGEHSQ  
NEKINRWNYIEGTKLFAAFFLEMAQLH

>sp|Q9BYD5|CNFN\_HUMAN Cornifelin OS=Homo sapiens GN=CNFN PE=1 SV=2

MSYPVTSQPQCATTSCYQTLSDWHTGLTDCNDMPVCLCGTFAPLCLACRISDDFGCEC  
CAPYLPGGLHSIRTGMRERYHIQGSVGHWAALTFCLPCALCQMARELKIRE

>sp|Q9NQW8|CNGB3\_HUMAN Cyclic nucleotide-gated cation channel beta-3 OS=Homo sapiens  
GN=CNGB3 PE=1 SV=2

MFKSLTKVNKVKPIGENNENEQSSRRNEEGSHPSNQSQQTAAQEENKGEEKSLKTKSTPV

TSEEPHTNIQDKLSKKNSSGDLTTPNDPQNAAEPTGTVPEQKEMDPGKEGPNSPQNKPPA  
APVINEYADAQLHNLVKMRQRTALYKKKLVEGDLSSPEASPQTAKPTAVPPVKESDDKP  
TEHYRLLWFKVKKMPLTEYLKRIKLPSIDSYTDRLLWLLVTLAYNWNCCFIPLRL  
VFPYQTADNIHYWLIADIICDIIYLYDMLFIQPRLQFVRGGDIIVDSNELRKHYRTSTKF  
QLDVASIIPFDICYLFFGFNPMFRANRMLKYTSFFEFNHLESIMDKAYIYRVIRTGYL  
LFILHINACVYYWASNYEGIGTRWVYDGEENEYLRCCYWAVRTLITIGGLPEPQTLFEI  
VFQLLNFFSGVVFVSSLIGQMRDVI GAATANQNYFRACMDDTIAYMNNYSIPKLVQKRVR  
TWYEYTWDSQRMLDES DLLKTLPTTVQLALAI DVNFSSIISKVDLFGCDTQMIYDMLLRL  
KSVLYLPGDFVCKKGEIGKEMYIIKHGEVQVLGGPDGTVLVTLKAGSVFGEISLLAAGG  
GNRRTANVVAHGAFANLLTLDKKTQELVHYPDSEILMKKARVLLKQAKTAEATPPRK  
DLALLFPPKEETPKLFKTLGGTGKASLARLLKLKREQAAQKKENSEGEEEGKENEDKQ  
KENEDKQKENEDKGKENEDKDKGREPEEKPLDRPECTASPIAVEEPPHSVRRTVLPRTS  
RQSLIISMASAEAGGEEVLTIEVKEKAKQ

>sp|Q15417|CNN3\_HUMAN Calponin-3 OS=Homo sapiens GN=CNN3 PE=1 SV=1

MTHFNKGPSYGLSAEVKNKIASKYDHQAEDLRNWIEEVTGMSIGPNFQLGLKDGIIILCE  
LINKLQPGSVKKVNESSLNWPQLENIGNFIKAIQAYGMKPHDIFEANDLFENGNTQVQT  
TLVALAGLAKTKGFHTTIDIGVYAEKQTRRFDEGKLKAGQSVIGLQMGTKNCASQAGMT  
AYGTRRHLYDPKMQTDKPFDDTTISLQMGTKNGASQAGMLAPGTRRDIYDQKLTLPVDN  
STISLQMGTKNVASQKGMSVYGLGRQVYDPKYCAAPTEPVIHNGSQGTGTNGSEISDSY  
QAEYPDEYHGEYQDDYPRDYQYSDQGIDY

>sp|Q96LI5|CNO6L\_HUMAN CCR4-NOT transcription complex subunit 6-like OS=Homo sapiens  
GN=CNOT6L PE=1 SV=2

MRLIGMPKEKYDPPDPRIYTIMSAEEVANGKKSHWAELEISGRVRSLSLWSLTHLTA  
LHLNDNYLSRIPPDIKHLNLVYLDLSSNKLRLPAELGNMVSLRELLNNNLLRVLPYE  
LGRLFQLQTLGLKGNPLSQDILNLYQDPDGTTRKLLNFMLDNLAVHPEQLPPRPWITLKER  
DQILPSASFVTCYNVLC DKYATRQLYGYCPSWALNWEYRKKGIMEEIVNCDADIISLQE  
VETEYQYFTLFLPALKERGYDGFSPKSRKIMSEQERKHVDGCAIFFKTEKFTLVQKHTV  
EFNQVAMANS DGSEAMLRNVMTKDNIGVAVVLEVHKELFGAGMKPIHAADKQLLIVANAH  
MHWDP EYSDVKLIQTMMFVSEVKNI LEKASSRPGSPTADPNSIPLVLCADLNSLPDSGVV  
EYLSNGGVADNHKDFKELRYNECLMNFSCNGKNGSSEGRITHGFQLKSAYENNLMPYTNY  
TFDFKGVIDYIFYSKTHMNVGLVGLPLDPQWLVENNITGCPHPIPSDHFSLTLQLELHP  
PLLPLVNGVHLPNRR

>sp|Q9UFF9|CNOT8\_HUMAN CCR4-NOT transcription complex subunit 8 OS=Homo sapiens GN=CNOT8  
PE=1 SV=1

MPAALVENSQVICEVWASNLEEEMRKIREIVLSYSYIAMDTEFPGVVVRPIGEFRSSIDY  
QYQLLR CNVDLLKIIQLGLTFTNEKGEYPSGINTWQFNFKFNLTEDMYSQDSIDLLANS  
LQFQKHEEEGIDTLHFAELMTSGVVLC DNVKWLSFHSGYDFGYMVKLLTDSRLPEEEHE  
FFHILNLFPSIYDVKYLKSKCNLKGGLQEVADQLDLQRIQRHQAGSDSLTGMAFFR  
MKELFFEDSIDD AKYCGRLYGLGTGVAQKQNEVDVSAQEKMSILAIINNMQQ

>sp|P26441|CNTF\_HUMAN Ciliary neurotrophic factor OS=Homo sapiens GN=CNTF PE=1 SV=1

MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVAS  
TDQWSELTEAERLQENLQAYRTFHVLLARLLEDQQVHFTPTGDFHQAIHTLLLQVAAFA  
YQIEELMILLEYKIPRNEADGMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFIS  
SHQTGIPARGSHYIANNKKM

>sp|Q12860|CNTN1\_HUMAN Contactin-1 OS=Homo sapiens GN=CNTN1 PE=1 SV=1

MKMWLLVSHLVIISITTCLAFTWYRRYGHGVSEEDKGFPIFEEQPINTIYPEESLEGK  
VSLNCRARASFPFVYKWRMNGDVLTSDRYSMVGGNLVINNPDKQKDAGIYYCLASNNY  
GMVRSTEATLSFGYLDPPFPPEERPEVRVKEGKGMVLLCDPPYHFPDDL SYRWLLNEFPVF  
ITMDKRRFVSQTNGNLYIANVEASDKGNYS CFVSSPSITKSVFSKFIPLIPIPERTTKPY  
PADIVVQFKDVYALMGQNVTLCEFALGNPVPDIRWRKVLEPMPSTAEISTSGAVLKIFNI  
QLEDEGIYECEAENIRGKDKHQARIYVQAFPEWVEHINDTEVDIGSDLYWPCVATGKPIP  
TIRWLKNGYAYHKGELRLYDVT FENAGMYQCI AENTYGA IYANAELKILALAPT FEMNPM  
KKKILAAKGGRVIECKPKAAPKPKFSWSKGEWLVNSSRILIWEDGSLEINNITRNDGG  
IYTCAENNRKANSTGTLVITDPTRIILAPINADITVGENATMQCAASFDPALDLTFVW  
SFNGYVIDFNKENIH YQRNFMLDSNGELLIRNAQLKHAGRYTCTAQTIVDNSSASADLVV  
RGPPGPPGGLRIEDIRATSVALTWSRGSNDHSPISKYTIQTKTILSDDWKDAKTDPPIE  
GNMEAARAVDLIPWMEYEFV VATNTLGRGEP SIPS NR IKTDGAAPNVAPSDVGGGGGRN  
REL TITWAPLSREYHYGNNFGYIVAFKPF DGEEWKVTVTNPDTGRYVHKDET MSPSTAF  
QVKVKAFNNKGDGPYSLVAVINSAQDAPSEAPTEVGVKVLSSEISVHWEHVLEKIVESY  
QIRYWAHDKEEAANRVQVTSQEYSARLENLLPDTQYFIEVGACNSAGCGPPSDMIEAFT  
KKAPPSQPRIISSVRSGRYIITWDHVVALSNESTVTGYKVL YRPDGGQHDGKLYSTHKH  
SIEVPIPRDGEYVVEVRAHSDGGDGVVSQVKISGAPTLSPSLLGLLLP AFGILVYLEF

>sp|Q8IYW2|CNTN4\_HUMAN Contactin-4 OS=Homo sapiens GN=CNTN4 PE=1 SV=1

MRLPWELLVLQSFILCLADDSTLHGPIFIQEPSPVMFPLDSEEKKVKLNCEVKG NPKPHI  
RWKLN GTDVTGMDFRYSVVEGSL LINPNKTQDAGTYQCTATNSFGTIVSREAKLQFAY  
LDNFKTRTRSTVSVRRGQGMVLLCGPPPHSGELSYAWIFNEYPSYQDNRRFVSQETGNLY  
IAKVEKSDVGN YTCVVTNTVTNHKVLGPPTPLILRNDGVMGEYEPKIEVQFPETVPTAKG  
ATVKLECFALGNPVPTIIWRRADGKPIARKARRHKSNGILEIPNFQ QEDAGLYECVAENS  
RGKNVARGQLTFYAQPNWIKINDIHVAMEENVFWECKANGRPKPTYKWLKNGEPLLTRD  
RIQIEQGTLNITIVNLSDAGMYQCLAENKHGVIFSNAELSVI AVGPDFSRTLLKRVTLVK  
VGGEV VIECKPKASPKPVYTWKGRDILKENERITISEDGNLRIINVTKSDAGSYTCIAT  
NHFGTASSTGNLVKDPTRVMVPPSSMDVTVGESIVLPCQVTHDHS LDIVFTWSFNGLHI  
DFDRDGDHFERVGGQDSAGDLMIRNIQLKHAGKYVCMVQTSVDRLSAAADLIVRGPPGPP  
EAVTIDEITDTTAQLSWRPGPDNHSPITMYVIQARTPFSVGWQAVSTVPELIDGKTFTAT  
VVGLNPWVEYEFRTVAANVIGIGEPSRPSEKRRTEEALPEVTPANVSGGGGSKSELVITW  
ETVPEELQNGRGFGYVFAFRPYGKMIWMLTVLASADASRYVFRNESVHPFSPFEVKGVF  
NNKGE GPFSPPTTVVYSAEEPTKPPASIFARSLSATDIEVFWASPLEKNRGRIQGYEVKY  
WRHEDKEENARKIRTVGNQTSTKITNLKGSVLYHLAVKAYNSAGTGPSSATVNVTTTRKPP  
PSQPPGNI IWNSSDSKIILNWDQVKALDNESEVKGYKVL YRWNRSSTSVIETNKTSVEL  
SLPFD EDYIIEIKPFSDDGGDGSSEQIRIPKISNAYARGSGASTSNACTLSAISTIMISL  
TARSSL

>sp|Q32M92|C0032\_HUMAN Uncharacterized protein C15orf32 OS=Homo sapiens GN=C15orf32 PE=2  
SV=2

MNKRTSVDASKEDLHPADPQS GEGVPPNRKNTKTS PRGEGTAPPFSARPCVWTLCEMLS I  
LALVGLHPFYRSNNQVYQKLKTHLRCQSSRVDGLMLKPTLLTPSQLKSPEGHLILPTFN  
HLVIRHILDPKQIFCVAADVCTDCKFNCGS IERHQKRHLMRVSQDWEHLIRYRNQICLS

>sp|Q8NAA6|C0053\_HUMAN Uncharacterized protein C15orf53 OS=Homo sapiens GN=C15orf53 PE=2  
SV=1

MELQGAQEDLGISLSSPRRNHETRPGSKAKGRSSICLQASVWMAGGKLRLRASEHLTQGH  
QQELRDWNLGEDASLLFSKSPFGAGKLIQAPAHVFRQCWVQGNAWISCITKFD SKRSPEV  
ASSPSYLTVPRRSPLPVFLRPSDRVCVGGCYLGKSTRRRACQSLLSDPLGVTFTPTQTRP

>sp|P53420|C04A4\_HUMAN Collagen alpha-4(IV) chain OS=Homo sapiens GN=COL4A4 PE=1 SV=3

MWSLHIVLMRCSFRLTKSLATGPWSLILILFSVQYVYGS GKKYIGPCGGRDCSVCHCVPE  
KGSRGPPGPPGPGPIGPLGAPGPIGLSGEKGMRGDRGPPGAAGDKGDKGPTGVPGFPG  
DGIPGHPGPPGPRGKPGMSGHNSRGDPGFPGGRGALGPGGPLGHPGEKGEKNSVFILG  
AVKGIQGDRGDPGLPGLPGSWGAGGPAGPTGYPGEPGLVGPPGQGRPLKGNPGVGK  
QMGDPGEVQGGSPGPTLLVEPPDFCLYKGEKGIKIPGMVGLPGPPGRKGESGIGAKGE  
KGIPGFPGRGDPGSYSGPFPGLKGELGLVGDPLFGLIGPKGDPGNRGHPGPPGLVT  
PPLPLKGPPGDPGFPGRYGETGDVGGPPGGLGRPGEACAGMIGPPGPGFPLPGLPG  
EAGIPGRPDSAPGKPGKPGSPGLPGAPGLQGLPGSSVIYCSVGNPGPQGIKGVGPPGGR  
GPKGEKNEGLCACEPGPMGPPGPPGLPGRQGSKDLGLPGWLGTKGDPGPPGAEGPPGL  
PGKHGASGPPGNKGA KDMVSVRKVGHKGERGPDGPPGFPQGPGSHGRDGHAGEKDPGP  
PGDHEDATPGGKGFPLGPPGKAGPVGPPGLGFPGPPGERGHPGVPGHPGVRGPDGLKG  
QKGDITISCNVTYPGRHGPPGFDGPPGPKGFPGPQGAPGLSGSDGHKGRPGTPTAEIPGP  
PGFRGDMGDPGFGGEKGS SPVGGPPGSPGVNGQKGI PGDPAFGHLGPPGKRGLSGVPG  
IKGPRGDPGCPGAEGPAGIPGFLGLKGPKGREGHAGFPGVP GPPGHSCERGAPGIPGQPG  
LPGYPGSPGAPGGKGQPGDVGGPPGAGMKGLPGLPGRGAHGPPGLPGIPGPFDDGLPG  
PPGPKGPRGLPGFPFPGERGKPAEGCPGAKGEPGEKGM SGLPGDRGLRGA KAIGPPG  
DEGEMAIISQKGTPEGPPGDDGFPGERGDKGTPGMQRRRGEPRYGP PGFHRGEPGEK  
GQGP GPPGPGSTGLRGFIGFPGLPGDQGEFGSPGPPGFSGIDGARGPKGNKDPASH  
FGPPGPKGEFGSPGCPGHFGASGEQGLPGIQGPRGSPGRPGPPGSSGPPGCPGDHGMPL  
RGQPGEMGDPGRGLQGDPGIPGPPGIKGPSGSPGLNGLHGLKGKGTGASGLHDVGPP  
GPVGIPLKGERGDPGSPGISPPGPRGKKGPPGPPGSSGPPGAGATGRAPKDIPDPGP  
GDQGP PGDPGRGAPGPPGLPGSVDLLRGE PGDCGLPGPPGPPGPPGPGYKGFPGCDGK  
DGQKGPVGFPGPGPHGFP GPPGEKGLP GPPGRKGPTGLPGRGEPGPPADVDDCPRI  
LPGAPGMRGPEGAMGLPMGRPSGPGCKGEPGLDGRRGVDGVPGSPGPPGRKGDTGEDGY  
PGGPGPPGPIGDGPKGFGPGYLGGFLLVLHSQTDQEPTCPLGMPRLWTGYSLLYLEGQE  
KAHNQDLGLAGSCLPVFSTLPFAYCNIHQVCHYAQRNDRSYWLASAAPLPMPLSEEAIR  
PYVSRCAVCEAPAQAVAVHSQDQSIPPCPQTWRSLWIGYSFLMHTGAGDQGGGQALMSPG  
SCLEDFRAAPFLECQRGTCHFFANKYSFWLTTVKADLQFSSAPAPDTLKESQAQRQKI  
SRCQVCVKYS

>sp|Q86WW8|COA5\_HUMAN Cytochrome c oxidase assembly factor 5 OS=Homo sapiens GN=COA5 PE=1  
SV=1

MPKYIEDKPQGGACAGLKEDLGACLLQSDCVVQEGKSPRQCLKEGYCNSLKYAFFECKRS  
VLDNRARFRGRKGY

>sp|Q13057|COASY\_HUMAN Bifunctional coenzyme A synthase OS=Homo sapiens GN=COASY PE=1  
SV=4

MAVFRSGLLVLTTPLASLAPRLASILTSAARLVNHTLYVHLQPGMSLEGPAQPQSSPVQA  
TFEVLDFITHLYAGADVHRHLDVRILLTNIRTKSTFLPPLPTSVQNL AHPPEVVL TDFQT  
LDGSQYNPVKQLVRYATSCYSCCPRLASVLLYSDYGIGEV PVEPLDVLPSTIRPASPV  
AGSPKQPVRGYYRGAVGGTDFRLHNAHKVLLSVACILAQEQLVVG VADKDLLKSKLLPEL  
LQPYTERVEHLS EFLVDIKPSLTFDVIPLDPYGPAGSDPSLEFLV VSEETYRGGMAINR

FRLENDLEELALYQIQLLKDLRHTENEEDKVSSSSFRQRMLGNLLRPPYERPELPTCLYV  
IGLTGISGSGKSSIAQRLKGLGAFVIDSDHLGHRAYAPGGPAYQPVEAFGTDILHKDGI  
INRKVLGSRVFGNKKQLKILTDIMWPIIAKLAREEMDRAVAEGKRVCVIDA AVLLEAGWQ  
NLVHEVWTAVIPETEAVRRIVERDGLSEAAQSR LQSQMSGQQLVEQSHVVLSTLWEPHI  
TQRQVEKAWALLQKRIPKTHQALD

>sp|A6NHY6|CI118\_HUMAN Putative uncharacterized protein C9orf118 OS=Homo sapiens  
GN=C9orf118 PE=4 SV=2

MCYVVPGCFIYICGCTRIKSTHFNGKSQMVDLKSQSWDLERFENKPPPAVYDLAATTSQ  
LGEWAKSRIW

>sp|Q5JTZ5|CI152\_HUMAN Uncharacterized protein C9orf152 OS=Homo sapiens GN=C9orf152 PE=2  
SV=2

MEGLPCPCPALPHFWQLRSHLMAEGSRTQAPGKGPPLSIQFLRAQYEGLKRQRTQAHL  
LVLPGGNTPAEAMVNAVWINKERRSSLSLEEADSEVEGRLEEAQGLQAPKSPWHTH  
LEMHCLVQTSPQDTSQVHHRGKLVGSDQRLPEGDTHLFETNQM TQGTGIPEAAQLPC  
QVGNTQTKAVESGLKSTQCPLSIKNPHRSGKPAYYFPQKRKTPRISQAARNLGLYGSA

>sp|Q9Y375|CIA30\_HUMAN Complex I intermediate-associated protein 30, mitochondrial  
OS=Homo sapiens GN=NDUFAF1 PE=1 SV=2

MALVHKLLRGTYFLRKFSKPTSALYPFLGIRFAEYSSSLQKPVASPGKASSQRKTEGDLQ  
GDHQKEVALDITSSEEKPDVSFDKAIRDEAIYHFRLKDEIVDHWRGPEGHPLHEVLLEQ  
AKVWVQFRGKEDLDKWTVTSDKTIGGRSEVFLKMGKNNQSALLYGTLSSEAPQDGESTRS  
GYCAMISRIPRGAERKMSYDWSQFNTLYLRVRGDGRPWMVNIKEDTDFQRTNQMYSYF  
MFTRGGPYWQEVKIPFSKFFFSNRGRIRDVQHELPLDKISSIGFTLADKVDGPF FLEIDF  
IGVFTDPAHTEEFAYENSPELNPRLFK

>sp|075838|CIB2\_HUMAN Calcium and integrin-binding family member 2 OS=Homo sapiens GN=CIB2  
PE=1 SV=1

MGNKQTI FT EEQLDNYQDCTFFNKKDILKLHSRYELAPNLVPM DYRKSPIVHVPMSLII  
QMPELRENPFKERIVAAFSEDGEGNLTFNDFVDMF SVLCESAPRELKANYAFKIYDFNTD  
NFICKEDLELTLARLT KSELDEEEVVLVCDK VIEADLDGDGKLGFADFEDMIAPDFL  
STFHIRI

>sp|O60543|CIDEA\_HUMAN Cell death activator CIDE-A OS=Homo sapiens GN=CIDEA PE=1 SV=1

MEAARDYAGALIRPLTFMGSQTKRVLFTPLMHPARPFVSNHRRSSRRGVMASSLQELIS  
KTLDALVIATGLVTLVLEEDGTVVDTEEFFQTLGDNTHFMILEKGQKWMPGSQHVPTCSP  
PKRSGIARVTFDLYRLNPKDFIGCLNVKATMYEMYSVSYDIRCTGLKGLLRSLRFLSYS  
AQVTGQFLIYLGTYMLRVLDDKEERPSLRSAKGRFTCG

>sp|Q96AQ7|CIDEA\_HUMAN Cell death activator CIDE-3 OS=Homo sapiens GN=CIDEA PE=1 SV=1

MEYAMKSLSLYPKSLSRHVSVRTSVVTQQLSESPKAPRARPCRVSTADRSVRKGIMA  
YSLEDLLLKVRDTLMLADKPFVLVEEDGTTVETEEYFQALAGDTVMVLQKGQKWQPPS  
EQGTRHPLSLSHKPAKKIDVARVTFDLYKLNPKDFIGCLNVKATFYDTYSLSYDLHCCGA  
KRIMKEAFRWALFSMQATGHVLLGTSCYLQQLLDATEEGQPPKGKASSLIPTCLKILQ

>sp|Q8IUL8|CILP2\_HUMAN Cartilage intermediate layer protein 2 OS=Homo sapiens GN=CILP2  
PE=2 SV=2

MASLLPLLCLCVAAHLAGARDATPTEPMATALGLERRSVYTGQPSPALEDWEEASEWT  
SWFNVDPHGGDGFESLAAIRFYYPARVCPRPLALEARTTDWALPSAVGERVHLNPTRG  
FWCLNREQPRGRCSNYHVRFRCPLEASGAWGPWGPGSCGPGRRRLRRRHCPSPAGDA

CPGRPLEAQKCVPRPCPGCSLDTCECPDHILLGSVVTPSGQPLLGARVSLRDQPGTVATS  
DAHGTFRVPGVCADSRANIRAQMDGFSAGEAQAQANGSISVVTIILDKLEKPYLVKHPES  
RVREAGQNVTFCCASGTPMPKKYSWFHNGTLLDRRAHGYGAHLELRGLRPDQAGIYHCK  
AWNEAGAVRSGTARLTVLAPGQPACDPRPREYLKLPEDCGQPGSGPAYLDVGLCPDTRC  
PSLAGSSPRCGDASSRCCSVRRLEIREIHCPGYVLPVKVVAECGCQKCLPPRGLVRGRVV  
AADSGEPLRFARILLGQEPIGFTAYQGDFTIEVPPSTQRLVVTFVDPSTGEFMDAVRVLFP  
DPRGAGVYHEVKAMRKAPVILHTSQSNTIPLGELEDEAPLGELVLPSTGAFRRADGKPYS  
GPVEARVTFVDPDLTSAASAPSDLRFDVSDGELAPLRTYGMFSVDLRAPGSAEQLQVGP  
VAVRVAASQIHMPGHVEALKLWSLNPETGLWEEESGFRREGSSGPRVRREERVFLVGNVE  
IRERRLFNLDPERRRCFVKVRAYANDKFTPSEQVEGVVVTLVNLEPAPGFSANPRAWGR  
FDSAVTGPNGACLPACFDADRPDAYTALVTATLGGEELPAPSLPRPLPATVGTQPYLD  
RLGYRRTDHHDPFAKRNFRINLAKPRPGDPAEANGPVYPWRSRECCQAGPVTASHFRFA  
RVEADKYEYNVVPFREGTPASWTGDLAWPNPQEFACFLKVKIQGPQEYMRSHNAGG  
SHPRTRGQLYGLRDARSVRDPERPGTSAACVEFKCSGMLFDQRQVDRTLVTIMPQGSRR  
VAVNGLLRDYLTRHPPVPAEDPAAFSMLAPLDPLGHNYGVYTVTDQSPRLAKEIAIGRC  
FDGSSDGFSSREMKADAGTAVTFQCREPPAGRPSLQRLLESPATALGDIRREMSEAAQAQ  
ARASGPLRTRGRVRQ

>sp|Q9P2M7|CING\_HUMAN Cingulin OS=Homo sapiens GN=CGN PE=1 SV=2

MAEPRGPVDHGVQIRFITEPVSGAEMGTLRRGGRRPAKDARASTYGVAVRVQGIAGQPFV  
VLNSGEKGGDSFGVQIKGANDQGASGALSSDLELPENPYSQVKGFPAPSQSSTSDEEPGA  
YWNKLLRSHSQASLAGPVPDPSNRNSMLELAPKVASPGSTIDTAPLSSVDSLINFK  
SQLGGQARGRTGRRTRMLPPEQRKRSKSLDSRLPRDTFEERERQSTNHWTSSTKYDNHVG  
TSKQPAQSQNLSPLSGFSRSRQTQDWVLQSFEEPRRQAQDPTMLQFKSTPDLLRDQEEA  
PPGSVDHMKATIYGILREGSSESETSVRRKVSLEKMQPLVMVSSGSTKAVAGQGELTR  
KVEELQRKLDEEVKKRQKLEPSQVGLERQLEEKTEECRLQELLERRKGEAQQSNKELQN  
MKRLLDQGEDLRHGLQVMEQLNKLKHVQGPEPAKEVLLKDLLETRELLEEVLEGKQRV  
EEQLRLRERELTALKGALKEEVASRDQEVHVRQQYQRDTEQLRRSMQDATQDHAVLEAE  
RQKMSALVRGLQRELEETSEETGHWSMFQKNKEDLRATKQELLQLRMEKEEMEEELGEK  
IEVLQRELEQARASAGDTRQVEVLKELLRTQEELKELQAERQSQEVAGRHRDRELEKQL  
AVLRVEADRGRELEEQNLQLQKTLQQLRQDCEEASKAKMVAEAEATVLGQRRAAVETTLR  
ETQEENDEFRRRILGLEQQLKETRGLVDGGEAVEARLRDLQRLEAEKQQLEALNASQE  
EEGSLAAAKRALEARLEEAQRGLARLGQEQTLNRALEEEGKQREVLRGKAELEEQKRL  
LDRTVDRLNKELEKIGEDSKQALQQLQAQLEDYKEKARREVADAQRQAKDWASEAEKTS  
GLSRLQDEIQRLRQALQASQAERDTARLDKELLAQRLQGLEQEAENKKRSQDDRARQLKG  
LEEKVSRLLETLEDEKNTVELLTDRVNRGRDQVDQLRTELQERSARQDLECDKISLERQ  
NKDLKTRLASSEGFQKPSASLSQLESQNQLQERLQAEEREKTVLQSTNRKLERKVKELS  
IQIEDERQHVNDQKQLSLRVKALKRQVDEAEIEERLDGLRKKQAQREVVEQHEVNEQLQ  
ARIKSLKDSWRKASRSAAESALKNEGLSSDEEFDSVYDPSSIASLLTESNLQTSSC

>sp|Q9NPC3|CIP1\_HUMAN E3 ubiquitin-protein ligase CCNB1IP1 OS=Homo sapiens GN=CCNB1IP1  
PE=1 SV=1

MSLCEDMLLCNYRKCRILSGYAWVTACSHIFCDQHGSGEFSRSPAICPACNSTLSGKLD  
IVRTELSPSEYKAMVLAGLRPEIVLDISSRALAFWTYQVHQRERLYQEYNFSKAEGHLKQ  
MEKIYTTQIQSKDVELTSMKGEVTSMKKVLEEYKKKFSDISEKLMERNRQYQKLQGLYDS  
LRLRNITIANHEGTLEPSMIAQSGVLGFPLGNNSKFPLDNTPVNRNGDGDGDFQFRPFFA

GSPTAPEPSNSFFSFVSPSRELEQQQVSSRAFKVKRI

>sp|Q5T681|CJ062\_HUMAN Uncharacterized protein C10orf62 OS=Homo sapiens GN=C10orf62 PE=1 SV=1

MLWVQRKRRRKETSECP SDKKSPESHKAKNESWIKSHFSRLSEEKLALDNNASASGNAT  
QTESGSEEVSSSTVHIETFTTRHGEVGSALHRESFTSRQKTSGPSVIQEIHQESGKAPSTD  
EATWAAVAACKTKEIDTQGRHLAHSMLQRAIAYQHS GHLESKDINQEELRALEEVEMLQK  
NFLTQRENTIAGANHTHTFYGHSHHSHGHPSHQSHSLPNRRH

>sp|Q5T2E6|CJ076\_HUMAN UPF0668 protein C10orf76 OS=Homo sapiens GN=C10orf76 PE=1 SV=1

MAQVEKRGGLLRKSSASKKPLKEKVVL MYDEIFMTEDPSKCSPRFWEELFLMKVNLEYLE  
GKLESLDGEELMKIKDNINCLFQHCIQALGEEHPIRVVNALQTL CALIRGVHQKNKSTSG  
FDIINMLMGFDKAE LCMKNLMESLDSLLCAEGSESLKSLCLKLLCLVTVDNISQNTIL  
EYVMINSIFEAILQILSHPPSRREHGYDAVLLALLVNYRKYESVNPYIVKLSIVDDEAT  
LNGMGLVIAQALSEYNRQYKDKEEEHQSGFFSALTNMVGSMFIADAHEKISVQTNEAILL  
ALYEAVHLNRNFITVLAQSHPEMGLVTPVSPAPTTPTVPLGTPPSSDVISSVELPLDA  
DVQTSNLLITFLKYSSIVMQDTKDEHRLHSGKLC LIILTCIAEDQYANAFLHDDNMNFRV  
NLHRMPMRHRKKAADKNLPCRPLVCAVLDLMVEFIVTHMMKEFPMDLYIRCIQVVHKL L C  
YQKKCRVRLHYTWRELWSALINLLKFLMSNETVLLAKHNIFTLALMIVNLFNMFITYGDT  
FLPTPSSYDELYEIERMHQSF DNLYSMVLR LSTNAGQWKEAASKVTHALVNIRAIINHF  
NPKIESYAAVNHISQLSEEQVLEVVRANYDTLTLKLQDGLDQYERYSEQHKEAAFFKELV  
RSISTNVRRNLAFHTLSQEVLLKEFSTIS

>sp|Q96M02|CJ090\_HUMAN Centrosomal protein C10orf90 OS=Homo sapiens GN=C10orf90 PE=2 SV=2

MLKLSGEGLRDSYHSRRDQIALKNLQSDVTEAKSDFTKETLASQNTKMISSIVISQMIDE  
NKSRENRA SLPLPCAI AQSLRAHHAKQSLANRSGVNIHRAFALLPGRLGIPAPSDERGPEA  
ELPPKEERPCGGPRRGFASITITARRVGPPARALVWG TAGDSLCPKCRAEDTLFQAPPAL  
ANGAHPGRHQRSFACTEF SRNSSVVRLKVPEAHTGLCERRKYWVTHADDKETSFSPDTPL  
SGKSPLVFSSCVHLRV SQCPDSIYYVDKSLSVPIEPPQIASPKMHRSVLSLNLNCSSHR  
LTADGVDGLVNREPISEALKQELLEGDQDLVGQRWNPGLQESHLKETPSLRRVHLGTGAC  
PWSGSFPLENTELANVGANQVTVRKGEKDHTTHCHASDHANQLSIHIPGWSYRAVHTKVF  
SGSSKRQQGEVCMTVSAPPVEQKPTRHFLPIGDSSPSDDCLSRDLSEPTERRHQSF LKPR  
ILFPGFLCPLQDVCASLQEDNGVQIESKFPKGDYTCCDLVVKIKECKKSEDPTTPEPSPA  
APSPAPRDGAGSPGLSEDCSESQQTPARSLTLQEALVRKPQFISRSQERLKKLEH MVQQ  
RKAQRKEDLRQKQLLP IRTSKKQFTIPHPLSDNLFKPKERCISEKEMHMRSKRIYDNLP  
EVKKKKKEEQRKRVILQSNRLRAEVFKKQLLDQLLQRNAV

>sp|Q9H7T3|CJ095\_HUMAN Uncharacterized protein C10orf95 OS=Homo sapiens GN=C10orf95 PE=1 SV=1

MERSNAATKCGEEPRSGSRRLPKAEGDKSGSAGAPSKNSSRLGGRPCMCTAGRRPNRASG  
RRRRSCSPAPTWPPLCCYPQSRPTASAAGPGACMRASGRPHGNTTASTAPPRHPRRRPG  
GPALRPTPRPCAGPAPPASRDCRCRRPRRWPRAGRRGRAGACKPSCAGAAWSARGAPL  
CSYRTSCAGSCGARTAPTAPT CASPSAAASSCCRRRRACSSPTTAWSGACGAGPTAATA  
AQPGKPRSAAPGRARA

>sp|Q8IVU9|CJ107\_HUMAN Uncharacterized protein C10orf107 OS=Homo sapiens GN=C10orf107 PE=2 SV=1

MDFSIIQYSKFM TLLAMSLQNLKTLHMSLEESIKWLGEVMAEIGPTHSQKSEDWNIFDVK  
QANAIIDY LKISL FQHYKLYEFMFYSAREEIVIGTEQVIEVVKSACGPFPPNPLEEGISFD

IYSTFIEPPTILDTEMKRLDQEQPEESQPETDTSMDPLVGFTIEDVKSVDQVTDIL  
IGIQTEINEKLQIQEEAFNARIEKLKKA

>sp|Q9H5F2|CK001\_HUMAN UPF0686 protein C11orf1 OS=Homo sapiens GN=C11orf1 PE=2 SV=1  
MAASQCLCCSKFLFQRQNLACFLTNPCHGSLVNADGHGEVWTDWNNMSKFFQYGWRCTTN  
ENTYSNRTLMGNWNQERYDLRNIVQPKPLPSQFGHYFETTYDTSYNNKMPLSTHRFKREP  
HWFPGHQPELDPPRYKCTEKSTYMNSYSKP

>sp|Q96N53|CK037\_HUMAN Putative uncharacterized protein encoded by LINC00167 OS=Homo sapiens GN=LINC00167 PE=5 SV=1  
MTEGLFISCSAVRVKPNRRAGLRRRSPAFLLSANQKTRLFALGSSPRCGPRANGEEASSC  
AWVSRAPRAACARAKPASRAPEGVSRKTRGGEAALASARPATDCLRSLAVERRRKPN  
RPAPGVGSLPGSRPQDPQGAAGRRLSP

>sp|Q8NCR3|CK065\_HUMAN Uncharacterized protein C11orf65 OS=Homo sapiens GN=C11orf65 PE=1 SV=1  
MPWKEESEFTKQDKAARVIQQAQWKSFLNVAIFQHFKSLIDLRRQGEPRQIVKYINPKEAE  
LLDAAAGIHVRFRLLGGVKFPDIYKIFTHRPIEDLCANSPRNYAKLPAKHTSHKNNDHL  
QEEDHSGWYHRIENNGWRPVSDTFWLSTDGMVVEDKKESEFHFSSKLKRRQDLEKKRKLK  
IEWMRQMYSGSLEAKSTHETLGLIHTATKGLIRAFEDGGIDSVMEWEVDEVLNWTNL  
NFDEYIASWKEIATSNSSANFKGFRFNQAQKNIYNYGGDISKMQMGIPDDTYENVYQEP  
NVTRLTPDSTYGL

>sp|Q8NBR9|CK072\_HUMAN Uncharacterized protein C11orf72 OS=Homo sapiens GN=C11orf72 PE=2 SV=1  
MTQLPELGLRSPNNKSPGTGPHPLEHLLARLLKRRRRSTLMSSPRSLLCSISGPGSHLLST  
HPILCHSVYQPPQASRPQAKRYQGLLPVPLAPHPLCLSGQLYLPNIPCTVIDGCGPVIS  
HLKLTMYPWGLPPSHLGSSSPFSANMEQWDYKQTRFAPFLPESFCGSPLPSEQSSRPF  
GLAFKVLCAATCPPQFQLLWLCYKLDLHQRICLPPNLALVLLGALWTSPPPGSFLQPP  
YNRPYKLYKTN

>sp|Q9BUA3|CK084\_HUMAN Uncharacterized protein C11orf84 OS=Homo sapiens GN=C11orf84 PE=1 SV=3  
MALKAEGAALDCFEVTLKCEGEDEEEAMVVAVIPRPEPMLRVTQKEKTPPPRPSPLEAG  
SDGCEEPKQQVSWEQEFLVGSSPGGSGRALCMVCGAEIRAPSADTARSHILEQHPHTLDL  
SPSEKSNILEAWSEGVALLQDVRAEQSPPPNSDSGQDAHPDPDANPDAARMPAEIVVLLD  
SEDNPSLPKRSRPRGLRPLELPAVPATEPGNKKPRGQRWKEPPGEEPVRKKRGRPMTKNL  
DPDPEPPSPDSPTETFAAPAEVRHFTDGSFPAGFVLQLFSHTQLRGPDSKDSPKDREVAE  
GGLPRAESPPAPPGLRGTLDLQVIRVRMEEPPAVSLLQDWSRHPQGTKRVGAGDTSW  
PTVLSSESSTTVAGKPEKNGV

>sp|Q6PI97|CK088\_HUMAN UPF0722 protein C11orf88 OS=Homo sapiens GN=C11orf88 PE=2 SV=2  
METGPSEEPSGRKESQEMCPPGLLVFAGSSEQDANLAKQFWISASMYPPSESQLVLRDS  
SQRLPVARPRRSRGSENSHSSQSFHLSNKNRDIFAEALKIQESEEKVKYLQAKTREEI  
LQLLRKQREERISKELISLPYKPAKEHKAKKVVSSEDKEDQEEVKTL

>sp|C9JLR9|CK095\_HUMAN Uncharacterized protein C11orf95 OS=Homo sapiens GN=C11orf95 PE=2 SV=1  
MEPGGDHRSRSSGGRGPGPAVASARGRRLPPAGSSGSAEPEDEGGQDLQLEGGALGSW  
GSAPLPSSRARGPASSGRKYSDHCEARASRPKSRIPGRDHRRYYHDHWRLEYLMDFNPA  
RHGMVCMVCGSSLATLKLSTIKRHIRQKHPYSLHWSPREKEVISNSWDAHLGLGACGEAE



GLGVQGAEEEEEEEEEEGAGVPACPPKGP KAPAGGGCRRQRRGGPVAPRARRLRLS  
ASRRAGGSRLGARRLERRLKESLQNW FRAECLMDYDPRGNRLVCMACGRALPSLHLD DI  
RAHVLEVHPGSLGLSGPQRSALLQAWGGQPEALSEL TQSPPGDDLAPQDLTGKSRDSASA  
AGAPSSQDLSPDPVKEEAGWVPERGPAEEEEEELEEGEGERAGVPGRSPRGRAHRRHPQE  
RWRLEYLMELDGGRRGLVCGVCGGALASLKMSTIERHIRRRHPGSTRLG GPVQAL IAREW  
SEKAAHLLALGPPRPESPQGI PPGTAAASDEGGGDEEEEEPEEEEEEWGDVPLSPGAPLE  
RPAEEEEDEEDGQEPGGLALPPPPPPPPPPPSREQRRNYQPRWRGEYLM DYDGSRRGL  
VCMVCGGALATLKVSTIKRHILQVHPFSMDFTPEERQTILEAYEEAALRCYGH EFGPPA  
PAPRDGGADLKSGAVCRA

>sp|Q96C57|CL043\_HUMAN Uncharacterized protein C12orf43 OS=Homo sapiens GN=C12orf43 PE=1 SV=2

MAAPSGTVSDSESSNSSSDAEELERCREAAMP AWGLEQRPHVAGKPRAGAANSQ LSTSQP  
SLRHKVNEHEQDGNELQTTPEFRAHVAKKL GALLDSFITISEAAKEPAKAKVQKVALEDD  
GFRLFFTSVPGGREKEESPQPRRKRPSSSS EDSDEEWRRCREAAVSASDILQESAIHSP  
GTVEKEAKKKRKLKKKAKKVASVDSAVAAT TPTSMATVQKQKSGELNGDQVSLGT KKKKK  
AKKASETSPFPPAKSATAIPAN

>sp|Q69YU5|CL073\_HUMAN Uncharacterized protein C12orf73 OS=Homo sapiens GN=C12orf73 PE=3 SV=2

MPAGVPMSTYLMFAASLLAMCAGAEVVHRYR PDLTIPEIPPKRGELKTELLGLKERKH  
KPQVSQQEELK

>sp|Q5K131|CLLU1\_HUMAN Chronic lymphocytic leukemia up-regulated protein 1 OS=Homo sapiens GN=CLLU1 PE=2 SV=1

MFNKCSFHSSIIYRPAADNSASSLCAIICFLNLVIECDLETNSEINKLI IYLF SQNNRIRF  
SKLLLKILFYISIFSYPELMCEQYVTFIKPGIHYGQVSKKHIIYSTFLSKNFKFQLLRVC  
W

>sp|Q9UGN4|CLM8\_HUMAN CMRF35-like molecule 8 OS=Homo sapiens GN=CD300A PE=1 SV=2

MWLPWALLLLWVPGCFALSKCRTVAGPVGGSLSVQCPYEKEHRTL NKYWCRPPQIFLCDK  
IVETKGSAGKRNGRVSIRDSPANLSFTVTLENL TEEDAGTYWCGVDPWLRDFHDPVVEV  
EVSVPASTSMTPASITAAKTSTITTAFPVSSTTLFAVGATHSASIQEETEEV VNSQLP  
LLLSLLALLLLLLVGASLLAWRMFQKWIKAGDHSELSQNPQKAATQSELHYANLELLMWP  
LQEKPAAPPREVEVEYSTVASPREELHYASVVFDSNTNRIAAQRPREEEPDS DYSVIRKT

>sp|Q9UBY8|CLN8\_HUMAN Protein CLN8 OS=Homo sapiens GN=CLN8 PE=1 SV=3

MNPASDGGTSESI FDLDYASWGIRSTLMVAGFVFYLGVFV VCHQLSSSLNATYRSLVARE  
KVFWDLAATRAVFGVQSTAAGLWALLGDPVLHADKARGQQNWCWFHIT TATGFFCFENVA  
VHLSNLIFRTFDLFLVIHHLFAFLGFLGCLVNLQAGHYLAMTTLLLE MSTPFTCVSWMLL  
KAGWSESLFWKLNQWLMIHMFHCRMVLT YHMWWVCFWHWDGLVSSLYLPHLTLFLVGLAL  
LTLIINPYWTHKKTQQLLNPVDWNFAQPEAKSRPEGNGQLLRKKRP

>sp|Q9Y471|CMAH\_HUMAN Inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase  
OS=Homo sapiens GN=CMAHP PE=1 SV=4

MDENNGLLLELNP NPWDLQPRSPHEELAFGEVQITYLTHACMDLKLGD KRMVFD PWLIG  
PAFARGWWLLHEPPSDWLERLCQADLIYISHLSDHLSYPTLKKLAGRRPD IPIYVGNT  
RPVFWNLNQSGVQLTNINVVPFGIWQVDKNLRFMILMDGVHP EMDTCII VEYKGHKILN  
IVDCTRPNGGRLPMKVALMMSDFAGGASGFPMTFSGGKFT EEWKAQFIKTERKKLLNYKA  
RLVKNLQPRIYCPFAGYFVESHPSDKYIKETNTKNDPNELNLIKKNSDVITWTPRPGAT

LDLGRMLKDRTDSKGIIEPPEGTKIYKDSWDFEPYLEILNAALGDEIFLHSSWIKEYFTW  
AGFKDYNLVVRMIETDEDFNPFPGGYDYLVDFLDLSPKERPQREHPYEEIHSRVDVIRH  
VVKNGLLWDELYIGFQTRLQRDPDIYHHLFWNHFQIKLPLTPPNWKSFLMCCEQNGPVIL  
QFSTERTNEPNRNKFSVENKA

>sp|Q17RA5|CMAS1\_HUMAN Putative uncharacterized protein C21orf62-AS1 OS=Homo sapiens  
GN=C21orf62-AS1 PE=5 SV=1

MHHVRQLMMPICPMALNSTSSSTTFGAFRIMTLNVEEWATAWKVLILLEAAVEEEKRSE  
EKRI LVC GTCGTRSSQKNL

>sp|075746|CMC1\_HUMAN Calcium-binding mitochondrial carrier protein Aralar1 OS=Homo  
sapiens GN=SLC25A12 PE=1 SV=2

MAVKVQTTKRGPHELNRNIFLQYASTEVDGERYMTPEDFVQRYLGLYNDPNSNPKIVQLL  
AGVADQTKDGLISYQEFLAFESVLCAPDSMFIVAFQLFDKSGNGEVTFENVKEIFGQTII  
HHHIPFNWDCEFIRLHFHGNRKKHLNYTEFTQFLQELQLEHARQAFALKDKSKSGMISGL  
DFSDIMVTIRSHMLTPFVEENLVSAAGGSISHQVSFSYFNAFNSLLNMELVRKIYSTLA  
GTRKDEVTKEEFAQSAIRYGQVTPLEIDILYQLADLYNASGRLTLADIERIAPLAEGAL  
PYNLAELQRQQSPGLGRPIWLQIAESAYRFTLGSVAGAVGATAVYPIDLVKTRMQNQSGS  
GSVVGELMYKNSFDCFKKVLRYEFGFFGLYRGLIPQLIGVAPEKAIKLTVNDFVRDKFTRR  
DGSVPLPAEVLAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALNVLRLDLGIFGL  
YKGAKACFLRDIPSAIYFPVYAHCKLLADENGHVGGNLLAAGAMAGVPAASLVTPAD  
VIKTRLQVAARAGQTTYSGVIDCFRKILREEGPSAFWKGTAAVRFRSSPQFGVTLVTYEL  
LQRWFYIDFGGLKPAGSEPTPKSRIADLPPANPDHIGGYRLATATFAGIENKFGLYLPKF  
KSPSVAVVQPKAAVAATQ

>sp|P10645|CMGA\_HUMAN Chromogranin-A OS=Homo sapiens GN=CHGA PE=1 SV=7

MRSAAVLALLLCAGQVTALPVNSPMNKGDTVMKCIVEVISDTLSKPSMPVSEQECFETL  
RGDERILSILRHQNLKELQDLALQGAKERAHQKKHSGFEDELSEVLENQSSQAELEKA  
VEEPSSKDVMEKREDSKEAEKSGEATDARPQALPEPMQESKAEGNNQAPGEEEEEEEEEA  
TNTHPPASLPSQKYPGPQAEGDSEGLSQGLVDREKGLSAEPGWQAKREEEEEEEEEAEAG  
EEAVPEEEGPTTVLNPPLSGYKEIRKGESRSEALVDGAGKPGAEAAQDPEGKGEQEH  
QQKEEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKELTAEKRLEG  
QEEEDNRDSSMKLSFRARAYGFRGPGPQLRRGWPPSSREDSLEAGLPLQVRGYPEEKKE  
EEGSANRRPEDQELESLSAIEAELEKVAHQALRRG

>sp|Q8IYT2|CMTR2\_HUMAN Cap-specific mRNA (nucleoside-2'-O-)-methyltransferase 2 OS=Homo  
sapiens GN=CMTR2 PE=1 SV=2

MSKCRKTPVQQLASPASFSPIADIFELFAKNFSYGKPLNNEWQLPDPSEIFTCDHTEL  
NAFLDLKNSLNEVNLLSDKKLDEWHEHTAFTNKAGKIIISHVRKSVNAELCTQAWCKFHE  
ILCSFPLIPQEAQNGKLSLHLCEAPGAFIASLNHYLKSHRFPCHWSWVANTLNPYHEA  
NDDLMMIMDDRLIANTLHWWYFGPDNTGDIIMTLKFLTGLQNFISSMATVHLVTADGSFDC  
QGNPGEQEALVSSLHYCEVVTALTTLGNGGSFVLKMTMFEHCSINLMYLLNCCFDQVHV  
FKPATSKAGNSEVYVVLCHYKGREATHPLLSKMTLNFNGTEMKRKALFPHHVIPDSFLKRH  
EECCVFFHKYQLETISENIRLFECMGKAEQEKLNNLRDCAIQYFMQKFQLKHLSRNNWL  
VKKSSIGCSTNTKWFQGRNKYFKTYNERKMLEALSWKDKVAKGYFNSWAEHGVYHPGQSS  
ILEGTASNLECHLWHILEGKKLPKVKCSPFCNGEILKTLNEAIEKSLGGAFNLDSKFRPK  
QQYSCSCHVFSEELIFSELCSLTECLQDEQVVVPSNQIKCLLVGFSTLRNIKMHIPLEVR  
LLESAELTTFCSLLHDGPTYQRLFLDCLLHSLRELHTGDVMILPVLSCFTRFMAGLIF

VLHSCFRFITFVCPTSSDPLRTCAYLLCVGYQDLNPNVFRYLQSVNELLSTLLNSDSPQQ  
VLQFVPMEVLLKGALLDFLWDLNAAIAKRHLHFIIQREREIINSLLQLQN

>sp|Q8NCU1|CN048\_HUMAN Putative uncharacterized protein encoded by LINC00521 OS=Homo sapiens GN=LINC00521 PE=5 SV=1

MDTGQRADPSNPGDKEGDLQGLWQELYQLQAKQKKLKREVEKHKLFEDYLIKVLEKIPEG  
CTGWEEPEEVLVEATVKHYGKLFTASQDTQKRLEAFCQMIQAVHRSLESLEEDHRLIAS  
RSGCVSCRRSATASRSSGGS

>sp|Q9NPU4|CN132\_HUMAN Uncharacterized protein C14orf132 OS=Homo sapiens GN=C14orf132 PE=3 SV=2

MDLSFMAAQLPMMGGAFMDSPNEFSTEYSLFNSSANVHAAANGQGQPEDPPRSSNDAVL  
LWIAIIATLGNIVVGVVYAFTF

>sp|Q8N769|CN178\_HUMAN Uncharacterized protein C14orf178 OS=Homo sapiens GN=C14orf178 PE=2 SV=1

MGREMKTGTTPRFRIEDPNQPTWHDQPEMGSHYFAQAGLELLGSSNPPASASQSAGIT  
GVSHCARPGEHDLNHTVFQVKDSTFLRHLESDRPEFKSCLPPHFTEPSVSLSTSEGCEDA  
MG

>sp|P62633|CNBP\_HUMAN Cellular nucleic acid-binding protein OS=Homo sapiens GN=CNBP PE=1 SV=1

MSSNECFKCGRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGES  
GHLAKDCDLQEDACYNCGRGGHIAKDCKEPREREQCCYNCGKPGHLARDCDHADEQKCY  
SCGEFGHIQKDCTKVKCYRCGETGHVAINCSKTSEVNCYRCGESGHLARECTIEATA

>sp|Q86XI2|CNDG2\_HUMAN Condensin-2 complex subunit G2 OS=Homo sapiens GN=NCAPG2 PE=1 SV=1

MEKRETFVQAVSKELVGFEFLQFVQLDKEASDPFSLNELDELNRKQKEELWQRLKNLLTD  
VLLESPVDGWQVVEAQGEDNMEHSGSKMRKSIEIIYAITSVILASVSVINESENYEALL  
ECV I ILNGILYALPESERKLQSSIQDLCVTWWEKGLPAKEDTGKTAFFVLLRRSLETGTG  
ADVCRLWRIHQALYCFDYDLEESGEIKDMLLECFININYIKKEEGRRFLSCLFNWNINFI  
KMIHGTIKNLQGLQKSLMVYIAEYFRAWKKASGKILEAIENDCIQDFMFHGIHLPRRS  
PVHSHKREVLSYFHHQKKVRQGVVEMLYRLYKPIWGLKARNSEVRSNAALLFVEAFPI  
RDPNLHAIEMDSEIQKQFEELYSLEDPYPMVRSTGILGVCKITSKYWEMMPPTILIDLL  
KKVTGELAFDTSSADVRCVFKCLPMILDNKLSHPLLEQLLPALRYSLHDNSEKVRVAFV  
DMLLKIKAVRAAKFWKICPMEHILVRLETDSRPVSRRLVSLIFNSFLPVNQPEEVCERC  
VTLVQMNHAAARRFYQYAEHTACTNIAKL I HVIRHCLNACTQRAVREPPEDDEEEDGRE  
KENVTVLDKTSLVNDVACMAGLEIIVILWKSIDRSMENNKEAKLYTINKFASVLPPEYLK  
VFKDDRCKIPLFMLSMPASAVPPFSCGVISTLRSREGAVDKSYCTLLDCLCSWGQVG  
HILELVDNWLPTHAQAKSNTASKGRVQIHDTRPVKPELALVYIEYLLTHPKNRECLLSA  
PRKKLNHLLKALETSKADLESLLQTPGGKPRGFSEAAAPRAFGHLHCLSIHLQHKFCSEG  
KVYLSMLEDTGFWLESKILSFIQDQEEDYLKLHRVIYQIIQTYLTVCKDVMVGLGDHQ  
FQMQLLQRLGIMQTVKGFFVYSLLLDILKEITGSSLIQKTDSEEVAMLLDTVQKVFQK  
MLECIARSFRKQPEEGLRLLYSVQRPLHEFITAVQSRHTDTPVHRGVLSTLIAGPVVEIS  
HQLRKVSDVEELTPPEHLSLPPFSRCLIGIIKSSNVRSFLDELKACVASNDIEGIVC  
LTAHVHIIILVINAGKHKSSKREVAATVHRKLKTFMEITLEEDSIERFLYESSRTLDEL  
LNS

>sp|Q9P003|CNIH4\_HUMAN Protein cornichon homolog 4 OS=Homo sapiens GN=CNIH4 PE=1 SV=1

MEAVVFVFSLLDCCALIFLSVYFIITLSDLECDYINARSCCSKLNKWIPELIGHTIVTV

LLMSLHWFIFLLNLPVATWNIYRYIMVPSGNMGVFDPTTEIHNRGQLKSHMKEAMIKLGF  
HLLCFFMYLYSMILALIND

>sp|Q8WXI2|CNKR2\_HUMAN Connector enhancer of kinase suppressor of ras 2 OS=Homo sapiens  
GN=CNKSR2 PE=1 SV=1

MALIMEPVSKWSPSQVVDWMKGLDDCLQYIKNFEREKISGDQLLRITHQELEDLGVSRIGHQELILEAVDLLCALNYGLETENLKTLSHKLNASAKNLQNFITGRRRSGHYDGRTSRKL  
PNDFLTSSVVDLIGAAKSLALWDRSPFAAVTDYSVTRNNVIQLCLELTTIVQQDCTVYET  
ENKILHVCKTSLSGVCDHIISLSSDPLVSQSAHLEVIQLANIKPSEGLGMYIKSTYDGLHV  
ITGTTENSPADRCCKIHAGDEVIQVNHQTVVGWQLKNLVNALREDPSGVILTLKKRPQSM  
LTSAPALLKNMRWKPLALQPLIPRPTSSVATPSSTISTPTKRDSSALQDLYIPPPPAEP  
YIPRDEKGNLPCEDLRGHMVGKPVHKGSESPNSFLDQEYRKRFNIVEEDTVLYCYEYKGRSSSQGRRESTPTYGKLRPISMPVEYNWVG DYEDPNKMKRDSRRENSLLRYMSNEKIAQE  
EYMFQRNSKKDTGKSKKKGDKSNSPTHYSLPSLQMDALRQDIMGTPVPETTLYHTFQQ  
SSLQHKSKKKNGKPIAGKSKRRISCKDLGRGDCEGWLWKKDAKSYFSQWKYWFVLKD  
ASLYWYINEEDEKAEGFISLPEFKIDRASECRKKYAFKACHPKIKSFYFAAEHLDDMNRLNRINMLTAGYAERERIKQEQDYWSESDKEEADTPSTPKQDSPPPPYDTPRPPSMSCAS  
PYVEAKHSRLSSTETSQSQSSHEEFRQEVGTSSAVSPIRK TASQRRSWQDLIETPLTSSGLHYLQTLPLEDSVFSDSAAISPEHRRQSTLPTQKCHLQDHYPYPLAESERMQVLNGNGG  
KPRSFTLPRDSGFNHCCLNAPVSACDPQDDVQPPEVEEEEEEEEEGEAAGENIGEKS  
REEKLGDSLQDLYRALEQASLSPLGEHRISTKMEYKLSFIKRCNDPVMNEKLHRLRILKSTLKAREGEVAIIDKVLNDPDLTSKEFQWKQMYLDLFLDICQNTTSNDPLSISSEVDVIT  
SSLAHTHSYIETHV

>sp|Q9BT09|CNPY3\_HUMAN Protein canopy homolog 3 OS=Homo sapiens GN=CNPY3 PE=1 SV=1

MDSMPPEPASRCLLLLPLLLLLLLLLLPAPELGPSQAGAEENDWVRLPSKCEVCKYVAVELK  
SAFEETGKTKEVIGTGYGILDQKASGVKYTKSDLRLIEVTETICKRLLDYSLHKERTGSN  
RFAKGMSETFETLHNLVHKGVKVVMDIPYELWNETSAEVADLKKQCDVLVEEFEEVIEDW  
YRNHQEEDLTEFLCANHVLKGKDTSCLAEQWSGKKGDTAALGGKSKKKSSRAKAAGGRSSSSKQRKELGGLEGDPSPDEDEGIQKASPLTHSPDEL

>sp|Q8WUR7|C0040\_HUMAN UPF0235 protein C15orf40 OS=Homo sapiens GN=C15orf40 PE=1 SV=2

MLRLRSLRHLRATPNTRGSARLLCAEMPKKAGATTGKKSQSKEPERLPPLGPVAVDPK  
GCVTIAIHAKPGSKQNAVDTLTA EAVNVAIAAPPSEGEANAELCRYLSKVLELRKSDVVL  
DKGGKSREKVVKLLASTTPEEILEKLKKEAKKT

>sp|P02458|CO2A1\_HUMAN Collagen alpha-1(II) chain OS=Homo sapiens GN=COL2A1 PE=1 SV=3

MIRLGAPQTLVLLTLLVA AVLRCQGQDVQEAGSCVQDQGRYNDKDVWKPEPCRICVCDTG  
TVLCDDIICEDVKDCLSPEIPFGECCPICPTDLATASGQPGPKGQKGE PGDIKDIVGPKG  
PPGPQGPAGEQGPGRDGRDKKEKGAPGPRGRDGEPTGPNPGPPGPPGPPGLGNFA  
AQMAGGFDEKAGGAQLGVMQGMGPMGPRGPPGAGAPGPGQFQGNPGEPEGVSGPMG  
PRGPPGPPGKPGDDGEAGKPGKAGERGPPGPQGARGFPGTPGLPGVKGHRGYPLDGAKE  
EAGAPGVKGESGSPGENGSPGMPGRGLPGERGRTGPAGAAGARGNDGQGPAGPPGPVG  
PAGGPGFPGAPGAKGEAGPTGARGPEGAQGP RGEPTGSPGPAGASGNPGTDGIPGAKG  
SAGAPGIAGAPGFPGRGPPGPQGATGPLGPKGQTGEPIAGFKGEQGPKEPGPAGPQG  
APGPAGEEGKRGARGEPPGVPIGPPGERGAPGNRGFPQDGLAGPKGAPGERGPSGLAG  
PKGANGDPGRPGEPGLPGARLTGRPGDAGPQKVGPSGAPGEDGRPGPPGPQGARGQPG  
VMGFPGPKGANGEPGKAGEKGLPGAPGLRGLPGKDGETGAAGPPGPAGPAGERGEQGAPG

PSGFQGLPGPPPPGEGGKPGDQGVPGGEAGAPGLVGPRGERGFPGERGSPPGAQGLQGPRG  
LPGTPGTDGPKGASGPAGPPGAQGPPLQGMPPGERGAAGIAGPKGDRGDVGEKGPEGAPG  
KDGGRLTGPIGPPPGAGANGEKEVGPAGSAGARGAPGERGETGPPGPAGFAGPPG  
ADGQPGAKGEQGEAGQKGDAGAPGPQGPSGAPGPQGPTGVTGPKGARGAQGPPGATGFPG  
AAGRVGPPGSNGNPFPPPGPPSGKDGPKGARGDSGPPGRAGEPGLQGPAGPPGEKGEPG  
DDGPSGAEGPPGPQGLAGQRGIVGLPGQRGERGFPLPGPSGEPGKQGAPGASGDRGPPG  
PVGPPGLTGPAGEPGREGSPGADGPPGRDGAAGVKGDRGETGAVGAPGAPGPPGSPGPAG  
PTGKQGDRGEAGAQGPMGPSGAPARGIQGPQGPRGDKGEAGEPGERGLKGHRGFTGLQG  
LPGPPGPSGDQGASGPAGPSGPRGPPGPVGPSKDGANGIPGPIGPPGPRGRSETGPAG  
PPGNPFPFPFPFPFPIDMSAFAGLGPREGKPDPLQYMRADQAAGGLRQHDAEVDATLK  
SLNNQIESIRSPEGRKNPARTCRDLKLCHPEWKS GDYWIDPNQGCTLDAMKVFCNMETG  
ETCVYPNPANVPKKNWSSKSKEKKHIWFGETINGGFHFSYGDDNLAPNTANVQMTFLRL  
LSTEGSQNITYHCKNSIAYLDEAAGNLKKALLIQGSNDVEIRAEGNSRFTYTALKDGCTK  
HTGKWGKTVIEYRSQKTSRLPIIDIAPMDIGGPEQEFGVDIGPVCFL

>sp|Q5JTJ3|COA6\_HUMAN Cytochrome c oxidase assembly factor 6 homolog OS=Homo sapiens  
GN=COA6 PE=1 SV=1

MGGPGPLLSPSRGFLCKTGWHSNRLLGDCGPHTPVSTALSFIAVGMAAPSMKERQVCWG  
ARDEYWKCLDENLEDASQCKLRSSFESSCPQQWIKYFDKRRDYLKFKEKFEAGQFEPSE  
TTAKS

>sp|Q96CD2|COAC\_HUMAN Phosphopantothienoylcysteine decarboxylase OS=Homo sapiens GN=PPCDC  
PE=1 SV=2

MEPKASCPAAAPLMERKFHVLVGVTGSVAALKLPLLVSLLDIPGLEVAVVTTTERAKHFI  
SPQDIPVTLYSDADEWEIWKSRSDPVLHIDLRRWADLLLVAPLDANTLGKVASGICDNLL  
TCVMRAWDRSKPLLFCPAMNTAMWEHPITAQQVDQLKAFGYVEIPCAKKLVCGDEGLGA  
MAEVGTIVDKVKEVLFQHSGFQQS

>sp|P12107|COBA1\_HUMAN Collagen alpha-1(XI) chain OS=Homo sapiens GN=COL11A1 PE=1 SV=4

MEPWSSRWKTKRWLWDFTVTTLALTFLFQAREVRGAAPVDVLKALDFHNSPEGISKTTGF  
CTNRKNSKGSdTAYRVSKQAQLSAPTKQLFPGGTFPEDFSILFTVKPKKGIQSFLLSIYN  
EHGIQIGVEVGRSPVFLFEDHTGKPAPEDYPLFRTVNIADGKWHRVAISVEKKTVTMIV  
DCKKTTKPLDRSERAIVDTNGITVFGTRILDEEVFEGDIQQFLITGDPKAAAYDYCEHYS  
PDCDSSAPKAAQAQEPQIDEYAPEDIIEYDYEYGEAEYKEAESVTEGPTVTEETIAQTEA  
NIVDDFQEYNYGTMSYQTEAPRHVSGTNEPNPVEEIFTEEYLTGEDYDSQRKNS EDTLY  
ENKEIDGRDSDLVDGDLGEYDFYKEYEDKPTSPPNEEFPGVPAPETDITETSINGHG  
AYGEGQKGEPAVVEPGMLVEGPPGPAGPAGIMGPPGLQGPTGPPGDPGDRGPPGRPLP  
GADGLPGPPGTMLMLPFRYGGDGSKGPTISAQEAQAQAILQQARIALRGPPGPMGLTGRP  
GPVGGPGSSGAKGESGDPGPQGPRGVQGPPTGKPGKRGRPGADGGRGMPGEPGAKGDR  
GFDGLPGLPGDKGHRGERGPQGPFPDDGMRGEDGEIGPRGLPGEAGPRGLLGRGTP  
GAPGQPGMAGVDGPPGPKGNMGPPGEPGPPGQGNPGPQGLPGPQGPPIGPPGEKGPQKGP  
GLAGLPGADGPPGHPGKEGQSSEKALGPPGPQGPPIGYPGPRGVKGADGVRGLKGSKEK  
GEDGFPFGKDMGLKDRGEVQIGPRGEDGPEGPKGRAGPTGDPGSPGQAGEKGLGVP  
GLPGYPGRQGPKGSTGFPGFPGANGEKGARGVAGKPGPRGQRGPTGPRGSRGARGPTGKP  
GPKGTSGGDGPFPGERGPQGPVGFPGPKGPPGPPGKDGLPGHPGQRGETGFQKGT  
GPPGPGGVVGPQGPTGETGPIGERGHPGPPGPPGEQGLPGAAGKEGAKGDPGPQGISGKD  
GPAGLRGFPGERGLPGAQAGPLKGGEGPQGPVGPSPGERGSAGTAGPIGLPGRPGPQ

GPPGPAGEKGAPGEKGPQGPAGRDGVQGPVGLPGPAGPAGSPGEDGDKGEIGEPGQKGSK  
GDKGENGPPGPPGLQGPVGAPGIAGGDGEPGPRGQQGMFGQKGDGARGFPGPPIGLQ  
GLPGPPGEKGENGDVGMPPGPPGPRGPQGPNGADGPQGPVSVGSVGGVGEKGEPEGEA  
GNPGPPGEAGVGGPKGERGEKGEAGPPGAAGPPGAKGPPGDDGPKGNPVPVGFPGDPGPP  
GEPGPAGQDGVGGDKGEDGDPGQPGPPGPSGEAGPPGPPGKRGPAGAAGEGRQGEKGAK  
GEAGAEGPPGKTGPVGPQGPAGKPGPEGLRGIPGPVGEQGLPGAAGQDGPMPGPPGLP  
GLKGDPGSKGEKGHPGLIGLIGPPGEQGEKGDRLPGTQGSFGAKGDDGIPGPAGPLGPP  
GPPGLPGPQGPKNKGSTGPAGQKGDGSLPGPPGSPGPPGEVIQPLPILSSKKTRRHTEG  
MQADADDNILDYSDGMEEIFGSLNSLKQDIEHMKFPMGTQTNPARTCKDLQLSHPDFPDG  
EYWIDPNQGCSDGSKFYVCNFTSGGETCIYDPKKSEGVRISSWPKEKPGSWFSEFKRGKL  
LSYLDVEGNSINMVQMTFLKLLTASARQNFTYHCHQSAAWYDVSSGSYDKALRFLGSNDE  
EMSNDNPFIKTLYDGCASRKGYEKTVIEINTPKIDQVPIVDVMINDFGDQNKQKGFVEVG  
PVCFLG

>sp|Q9NZ63|C1078\_HUMAN Uncharacterized protein C9orf78 OS=Homo sapiens GN=C9orf78 PE=1  
SV=1

MPVVRKIFRRRRGDESEEEDEQDSEEVRLKLEETREVQNLKRPNVSAVALLVGEKVQE  
ETTLVDDPFQMKTGGMVDMKKLKERGDKKISEEEDLHLGTSFSAETNRRDEDADMMKYIE  
TELKKRKGIVEHEEQVKPKNAEDCLYELPENIRVSSAKKTEEMLSNQMLSGIPEVDLGI  
DAKIKNIISTEDAKARLLAEQQNKKKDSSETS FVPTNMAVNVQHNRFYHEELNAPIRRNK  
EEP KARPLRVGDEKPEPERSPPNRKR PANEKATDDYHYEFKKMNNRY

>sp|Q6ZV77|C1139\_HUMAN Uncharacterized protein C9orf139 OS=Homo sapiens GN=C9orf139 PE=2  
SV=1

MALRGHPEPQPTNTPLSATVGGPISLFTQPRCHSAARDLVWSQAWPDPDVLEISMQTPGG  
SSCRKEAVLPRLRVTRPLVPEPAILPVCAARLAGSLATDLSRSHSLPPWVDLKEPPPPS  
APSLLEDPGQGGCHGAQSCVGTCELARGFCPEMQNESLSEERKGHESKRKSGGRG  
SPSSHPTQAS

>sp|E9PRG8|C1098\_HUMAN Uncharacterized protein C11orf98 OS=Homo sapiens GN=C11orf98 PE=4  
SV=1

MGAPGGKINRPTELKKKLFKRRRVLNRRRLRHRVVGAVIDQGLITRHHLLKRRASSARA  
NITLSGKKRRKLLQQIRLAQKEKTAMEGEAGTEVGEGNPGFIWDNTSFFPLLSGSPFKAS  
QD

>sp|Q96SN8|CK5P2\_HUMAN CDK5 regulatory subunit-associated protein 2 OS=Homo sapiens  
GN=CDK5RAP2 PE=1 SV=5

MMDLVLEEDVTVPGTSLGCSGLVPSVPDDLGINPNAGLGNLLPNVSEETVSPTRARNM  
KDFENQITELKKENFNKLRIYFLEERMQQEFHGPTTEHIYKTNIELKVEVESLRELQER  
EQLLIKASKAVESLAEAGGSEIQRVKEDARKKVQQVEDLLTKRILLLEKDVTAQAELK  
AFAGTETEKALRLRLSKLSEMKKMHEGDLAMALVLDEKDRLIEELKLSLKSKEALIQCL  
KEEKSMACPDENVSSGELRGLCAAPREEKERETEAQMEHQKERNSEERIQALEDLR  
EKEREIATEKKNSLRDKAIQGLTMALKSKEKKVEELNSEIEKLSAFAKAREALQKAQT  
QEFQGSSEDYETALSGKEALSAALRSQNLTKSTENHRLRRSIKKITQELSDLQQUERERLEK  
DLEEAHREKSKGDCITRDLRNEVEKLRNEVNEREKAMENRYKSLLSESNNKLNQEQVIK  
HLTESTNQKDVLLQKFNEKDLEVIQQNCYLMAAEDLELRSEGLITEKSSQPPGSKTIF  
SKEKKQSSDYELIQVLKKEQDIYTHLVKSLQESDSINNLQAELNKIFALRKQLEQDVLS  
YQNLKRTLEEQISEIRRREEESFSLYSDQTSYLSICLEENNRFQVEHFSQEELKKKVS DL

IQLVKELYTDNQHLKKTIFDLSCMGFQGNFPDRLASTEQTTELLASKEDEDTIKIGEDDE  
INFLSDQHLQQSNEIMKDLKGGCKNGYLRHTESKISDCDGAHAPGCLEEGAFINLLAPL  
FNEKATLLLESRPDLLKVVRELLGQLFLTEQEVSGEHLDGKTEKTPKQKGELVHFVQTN  
SFSKPHDELKLSCEAQLVKAGEVPKVGLKDASVQTVATEGDLLRFKHEATREAWEEKPIN  
TALSAEHRPENLHGVPGWQAALLSLPGITNREAKKSRLPILIKPSRSLGNMYRLPATQEV  
VTQLQSQILELQGELKEFKTCNKQLHQLILAEAVMEGRPTDPKTLNAQPPVGAAYQDS  
PGEQKGIKTTSSVWRDKEMSDQQRSEIDSEICPPDDLASLPCKENPEDVLSPTSVAT  
YLSSKSQPSAKVSVMGTDQSEINTSNETEYLKQKIHDLETELEGYNFIFQLQKHSQCS  
EAIITVLCGTEGAQDGLSKPKNGSDGEEMTFSSLHQVRYVKHVKILGPLAPEMIDSRVLE  
NLKQQLEEQEYKLQKEQNLNMQLFSEIHNLQNKFRDLSPPRYDSLVSQARELSLQRQQI  
KDGHGICVISRQHMTMIKAHEELQASDVYCVAEGFQELNQCAELLEKLEKFLNGK  
SVGEMNTQNELMERIEEDNLTYQHLLPESPEPSASHALSDYETSEKSFSDQKQDNET  
EKTSVMVNSFSQDLLMEHIQEIRTLRKRLEESIKTNEKLRKQLERQGEFVQGSTSIFAS  
GSELHSSLTSEIHFLRKQNQALNAMLKGSRDQKQKENDKLRESLSRKTVSLEHLQREYAS  
VKEENERLQKEGSEKERHNQQLIQEVRCSGQELSRVQEEVKLRQQLSQNDKLLQSLRVE  
LKAYEKLDEEHRRLREASGEGWKGQDPFRDLHSLLEIQAALRLQLERSIETSSTLQSRK  
EQLARGAEKAQEGALTLAVQAVSIPEVPLQPDKHDGDKYPMESDNSFDLFDSSQAVTPKS  
VSETPPLSGNDTDSLSCDSGSSATSTPCVSRVLTGHHLWASKNGRHVLGLIEDYEALLKQ  
ISQGQRLLAEMDIQTQEAPSSTSQELGTGKPHPAPLSKFVSSVSTAKLTLEEAYRRLKLL  
WRVSLPEDGQCPLHCEQIGEMKAEVTKLHKKLFEQEKKLQNTMKLLQLSKRQEKVIFDQL  
VVTHKILRKARGNLELRPGGAHPGTCSPSRPGS

>sp|Q8TAZ6|CKLF2\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 2 OS=Homo sapiens GN=CMTM2 PE=2 SV=1

MAPKAAKGAKPEPAPAPPPGAKPEEDKKDGKEPSDKPQKAVQDHKEPSDKPQKAVQPKH  
EVGTRRGCRRYRWELKDSNKEFWLLGHAEIKIRSLGCLIAAMILLSSLTVHPILRLIITM  
EISFFSFFILLYSFAIHRYIPFILWPISDLFNDLIACAFLVGAVVFAVRSRRSMNLHYLL  
AVILIGAAGVFADFIDVCLQRNHFRGKKAKKHMLVPPPGKEKGPQQGKGPEPAKPPEPGKP  
PGPAKGKK

>sp|Q96DZ9|CKLF5\_HUMAN CKLF-like MARVEL transmembrane domain-containing protein 5 OS=Homo sapiens GN=CMTM5 PE=1 SV=2

MLSARDRRDRHPEEGVVAELQGFVADKAFLTSHKGILLETALTLIIIFICTASISAYM  
AAALLEFFITLAFFLYATQYYQRFDRINWPCLLQGHGQSGGPHPLDLLSHSAKVQPQPW  
PGLTPPGWHTPAAVPVWPAAPGFWSWLLWFICFHSLSGSSDFLRCSAIIIFLVVSFAAV  
TSRDGAAIAAFVFGIILVSIFAYDAFKIYRTEMAPGASQGDQQ

>sp|Q8N5I9|CLO45\_HUMAN Uncharacterized protein C12orf45 OS=Homo sapiens GN=C12orf45 PE=1 SV=2

MEVHGKPKASPSCSSPTRDSSGVPVSKELLTAGSDGRGGIWDRLINSQPKSRKTSTLQT  
VRIERSPLLDQVQTFPLQMARANEKLRKEMAAAPPGRFNIENIDGPHSKVIQMDVALFEM  
NQSDSKEVDSSESSQDSENSSESEDEDDIPSEVTIDNIKLPNSEGGKGKIEVLDSPA  
SKKKK

>sp|Q6X4T0|CLO54\_HUMAN Uncharacterized protein C12orf54 OS=Homo sapiens GN=C12orf54 PE=2 SV=2

MAQHPCQDQEQKVENTSKQQRSTSIETMRPQEKQVTITETLWDQVLTVFKDIQKELQED  
ARIRGMSNCSMTPMTSAPRTGSIRPPDSLMTPKLRRLLQFSSGEQPSGGRIHNLKTQLFSQ

SAYYPGP

>sp|Q8N812|CL076\_HUMAN Uncharacterized protein Cl2orf76 OS=Homo sapiens GN=Cl2orf76 PE=2 SV=1

MFQNLQGTFEKEIGKIIPFTIAFKRAEAVEPDGCVQSWRCCLPCDLGQASRFIHTTVCSA  
IRWRSCKGERNFAERHILPAELEEQSNHAGMPILPAMPSVDGNHFQHPAGDCHPYGILC  
LQAHSASVTARQVLQ

>sp|Q6ZS10|CL17A\_HUMAN C-type lectin domain family 17, member A OS=Homo sapiens GN=CLEC17A PE=1 SV=2

MHNLYSITGYDPPTMEEEEEDDYENSTPPYKDLPPKPGTMEEEEEDDYENSTPPYK  
DLPPKPGTMEEEEEDDYENSTPPYKDLPPKPGSSAPPRPPRAAKETEKPLPCKPRNMT  
GLDLAAVTCPPPQLAVNLEPSLPQLAATPVPWLNQRSGGPGCCQKRWVYLCLLVVTS  
LFLGCLGLTVTLIKYQELMEELRMLSQQMTWRTNMTGMAGLAGLKHDIAVRADTNQSL  
VELWGLDCRRITCEGWLPFEGKCYFSPSTKSWDEARMFCQENYSHLVIINSFAEHNF  
VAKAHGSPRVYWLGLNDRAQEGDWRWLDGSPVTLSEWEPEEPNNIHDEDCATMNKGGTWN  
DLSCYKTTYWICERKCSC

>sp|Q6UXF7|CL18B\_HUMAN C-type lectin domain family 18 member B OS=Homo sapiens GN=CLEC18B PE=2 SV=2

MLHPETSPGRGHELLAVLLALLGTTWAEVWPPQLQEAPMAGALNRKESFLLLSLHNRLRS  
WVQPPAADMRRLDWSDSLAQLAQARAALCGIPTSLASGLWRTLQVGWNMQLLPAGLASF  
VEVVSLEWFAEGQRYSHAAGECARNATCTHYTQLVWATSSQLGCGRHLCASAGQTAIEAFVC  
AYSPGGNWEVNGKTIIPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPCRMSQCQNHG  
RLNISTCHCHCPPGYTGRYCQVRCSLQCVHGRFREEECSCVCDIGYGAQCATKVHFPFH  
TCDLRIDGDCFMVSSEADTYRARMKCQRKGGVLAQIKSQKVQDILAFYLRLETTNEVI  
DSDFETRNFWIGLTYKTAKDSFRWATGEHQAFTSFAFGQPDNHGLVLSAAMGFGNCVEL  
QASAAFNWNDQRCKTRNRYICQFAQEHISRWGPGS

>sp|Q92478|CLC2B\_HUMAN C-type lectin domain family 2 member B OS=Homo sapiens GN=CLEC2B PE=1 SV=2

MMTKHKKCFIIVGVLITTNIIITLIVKLTRDSQSLCPYDWIGFQNKCYYSKEEGDWNSSK  
YNCSTQHADLTIIDNIEEMNFLRRYKCSSDHWIGLKMAKNRTGQWVDGATFTKSFGMRGS  
EGCAYLSDDGAATARCYTEWKWICRKRIH

>sp|Q9UHP7|CLC2D\_HUMAN C-type lectin domain family 2 member D OS=Homo sapiens GN=CLEC2D PE=1 SV=1

MHDSNNVEKDITPSELPANPGCLHSKEHSIKATLIWRLFFLIMFLTIIVCGMVAALSAIR  
ANCHQEPSVCLQAACPESWGIFQRKCFYFSDDTKNWTSSQRFCDSDADLAQVESFQELN  
FLLRYKGPSDHWIGLSREQGPWKWINGTEWTRQFPILGAGECAYLNDKGASSARHYTER  
KWICKSDIHV

>sp|075596|CLC3A\_HUMAN C-type lectin domain family 3 member A OS=Homo sapiens GN=CLEC3A PE=1 SV=1

MAKNGLVICILVITLLLDQTTSHTSRLKARKHSKRRVRDKDGLKTQIEKLWTEVNALKE  
IQALQTVCLRGTKVHKCYLASEGLKHFHEANEDCISKGGILVIPRNSDEINALQDYGKR  
SLPGVNDFWLGINDMVEGKFVDVNGIAISFLNWDRAQPNGGKRENCVLFSQSAQGWSD  
EACRSSKRYICEFTIPQ

>sp|Q9UBD9|CLCF1\_HUMAN Cardiotrophin-like cytokine factor 1 OS=Homo sapiens GN=CLCF1 PE=1 SV=1



MDLRAGDSWGLACLCTVLWHLPAVPALNRTGDPGPGPSIQKTYDLTRYLEHQLRSLAGT  
YLNYLGPFPNEPDFNPRLGAETLPRATVDLEVWRSNDKLRLTQNYEAYSHLLCYLRGL  
NRQAATAELRRSLAHFCTSLQGLLGSIAGVMAALGYPLPQPLPGTEPTWTPGPAHSDFLQ  
KMDDFWLLKELQTWLWRSKDFNRLKKKMPPAAAVTLHLGAHGF

>sp|P51800|CLCKA\_HUMAN Chloride channel protein ClC-Ka OS=Homo sapiens GN=CLCNKA PE=1  
SV=1

MEELVGLREGFSGDPVTLQELWGPCPHIRRAIQGGLEWLKQKVFRLEDWYFLMTLGVL  
ALVSYAMNFAIGCVVRAHQWLYREIGDShLLRYLSWTVPVALVSFSSGFSQSITPSSGG  
SGIPELKTMLAGVILEDYLDIKNFgakVVGLSCTLATGSTLFLGKVGPFVHLSVMIAAYL  
GRVRTTTIGEPENKSKQNEMLVAAAAGVATVFAAPFSGVLSIEVMSSHFSVRDYWRGF  
FAATCGAFIFRLLAVFNSEQETITSLYKTSFRVDVPFDLPEIFFFVALGGICGVLSCAYL  
FCQRTFLSFIKTNRYSSKLLATSKPVYSALATLLLASITYPPGVGHFLASRLSMKQHLDS  
LFDNHSWALMTQNSSPPWEELDPQHLWWEWYHPRFTIFGTLAFFLVMKFWMLILATTIP  
MPAGYFMPIFILGAAIGRLLGEALAVAFPEGIVTGGVTNPIMPGGYALAGAAAFSGAVTH  
TISTALLAFELTGQIVHALPVLMAVLAANAIAQSCQPSFYDGTIIIVKKLPYLPRILGRNI  
GSHHVRVEHFMNHSITTLAKDTPLEEVVKVVTSTDVTEYPLVESTESQILVGIVQRAQLV  
QALQAEPPSRAPGHQQLQDILARGCPTPEVTLTLFSETTLHQAQNLFKLLNLQSLFVTS  
RGRAVGCVSWVEMKKAISNLTNPPAPK

>sp|P51790|CLCN3\_HUMAN H(+)/Cl(-) exchange transporter 3 OS=Homo sapiens GN=CLCN3 PE=1  
SV=2

MESEQLFHRGYRNSYNSITSASSDEELLDGAGVIMDFQTSEDDNLDDGDTAVGTHYMT  
NGGSINSSTHLLDLLDEPIPGVGTYDDFHTIDWVREKCKDRERHRRINSKKKESAWEMTK  
SLYDAWSGWLVTTLGLASGALAGLIDIAADWMTDLKEGICLSALWYNHEQCCWGSNETT  
FEERDKCPQWKTWAEIIGQAEGPGSYIMNYIMYIFWALSFAFLAVSLVKVFAPYACGSG  
IPEIKTILSGFIIRGYLGKWTLMIKTITLVLASGLSLGKEGPLVHVACCCGNIFSYLE  
PKYSTNEAKKREVLSAASAAGVSVAFGAPIGGVLSLEEVSYFPLKTLWRSFFAALVAA  
FVLR SINPFGNSRLVLFYVEYHTPWYLFELFPFILLGVFGGLWGAFIRANIAWCRRRKS  
TKFGKYPVLEVIIVAAITAVIAFPNPYTRLNTESELIKELFTDCGPLESSSLCDYRNDMNA  
SKI VDDIPDRPAGIGVYSaiWQLCLALIFKIIMTVFTFGIKVPSGLFIPsMAIGAIAgRI  
VGIAVEQLAYYHHDWFIFKEWCEVGADCITPGLYAMVGAAACLGGVTRMTVSLVIVFEL  
TGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTHTTLAADVMP  
RRNDPPLAVLTQDNMTVDDIENMINETSyNGFPVIMSKESQRLVGfALRRDLTIAIESAR  
KKQEGIVGSSRVCAQHTPSLPAESPRPLKRSILDMSPTFTVDHTPMEIVVDIFRKLGL  
RQCLVTHNGRLLGIITKKDILRHMAQTANQDPASIMFN

>sp|P51797|CLCN6\_HUMAN Chloride transport protein 6 OS=Homo sapiens GN=CLCN6 PE=1 SV=2

MAGCRGSLCCCCRWCCCCGERETRTPPELTILGETQEEDEILPRKDYESLDYDRCINDP  
YLEVLETMDNKKGRRYEAVKWMVFAIGVCTGLVGLFVDFVRLFTQLKFGVVQTSVEEC  
SQKGCLALSLELLGFNLTFVFLASLLVLIePVAAGSGIPEVKCYLNGVKVPgIVRLRTL  
LCKVLGVLFsvAGGLFVEKEGPMIHSGSVVGAGLPQFQsISLRKIqFNfPYFRSDRDkRD  
FVSAGAAAGVAAAFGAPIGGTLFSLEEGSSFWNQGLTWKVLfCSMSATFTLNfFRSGIQF  
GSWGSFQLPGLLNfGEfKCDSDKKChLWTAMDLGFFVVMGVIGLLGATfNCLNkRLAK  
YMRNVHPKPKLVRVLESLLVSLVTTVVVFVAsMVLGECRQMSSSQIGNDsFQLQVTEd  
VNSSIKTFFCPNDTYNDMATLFFNPQESAILQLFHQDGTfSPVTLALFFVLYfLLACWtY  
GISVPSGLFVPSLLCGAAFGRLVANVLKSYIGLGHISGTFALIGAAAFLGgVVRMTISL

TVILIESTNEITYGLPIMVTLMAKWTGDFNKGIDYHVGRLRGVPLLEWETEVEMDKLR  
ASDIMEPNLTYVYPHTRIQSLVSLRTTVHHAFPVVTENRGNEKEFMKGNQLISNNIKFK  
KSSILTRAGEQRKRSQSMKSYPSSELNMCDEHIASEEPAEKEDLLQQMLERRYTPYPNL  
YPDQSPSEDWTMEERFRPLTFHGLILRSQVLTLLVRGVCYSESQSSASQPRLSYAEMAED  
YPRYPDIHDLTLNPRMIVDTPYMNPSPTVSPNTHVSQVFNLFRMTGLRHLPVVNA  
VGEIVGIITRHNLTIEFLQARLRQHYQTI

>sp|095832|CLD1\_HUMAN Claudin-1 OS=Homo sapiens GN=CLDN1 PE=1 SV=1  
MANAGLQLLGFIILAFGLGWIGAIIVSTALPQWRIYSYAGDNIVTAQAMYEGLWMSCVSQSTG  
QIQCKVFDSLNLSTLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDEDEVQKMRMAV  
IGGAIFLLAGLAILVATAWYGNRIVQEFYDPMTPVFNARYEFGQALFTGWAAASLCLLGGA  
LLCCSCPRKTTSYTPRYPKPAPSSGKDYV

>sp|H7C241|CLD34\_HUMAN Claudin-34 OS=Homo sapiens GN=CLDN34 PE=3 SV=2  
MVWFCNSADCQFSVFALTTIGWILSSTSTGLVEWRIWYMKDTSLYPPGIACVGIFRVCIIY  
RRRTNSTTTKFCYRYSYQDTFLPFEISMAQRFLLTASIFGFFGRAFNMFALRNMSMRMFE  
EDTYSNFVVSGILNIAAGVFNLIAVLQNYDAVINSQGITFLPSLQMPFKPDVQEVGTATQ  
VAGIGVLPMLLTGMFSLFYKCPYPYGVHPGISEM

>sp|000501|CLD5\_HUMAN Claudin-5 OS=Homo sapiens GN=CLDN5 PE=2 SV=1  
MGSAALEILGLVLCVGVGGLILACGLPMWQVTAFLDHNIVTAQTTWKGLWMSCVVQSTG  
HMQCKVYDSVLALSTEVQAARALTVSAVLLAFVALFVTLAGAQCCTTCVAPGPAKARVALT  
GGVLYLFCGLLALVPLCWFANIVVREFYDPSVPVSQKYELGAALYIGWAATALLMVGGL  
LCCGAWVCTGRPDLSPVKYSAPRRPTATGDYDKKNYV

>sp|P56748|CLD8\_HUMAN Claudin-8 OS=Homo sapiens GN=CLDN8 PE=1 SV=1  
MATHALEIAGLFLGGVGMVGTVAVTVMQWRVSAFIENNIVVFENFWEGGLWMNCVRQANI  
RMQCKIYDSLALSPDLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILL  
TAGIIFIITGMVVLIPVSWVANAIIRDFYNSIVNVAQKRELGEALYLGWTTALVLIVGGA  
LFCCVFCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

>sp|Q8NHS1|CLDN2\_HUMAN Claudin domain-containing protein 2 OS=Homo sapiens GN=CLDND2 PE=2  
SV=1  
MGVKRSLQSGGILLSLVANVLMVLSTATNYWTRQQEGHSGLWQECNHGICSSIPCQTTLA  
VTVACMVLAVGVGVGMVGLRIRCDEGESLRGQTSAFLFLGGLLLLTALIGYTVKNAW  
KNNVFFSWSYFSGWLALPFSILAGFCFLADMIMQSTDAISGFPVCL

>sp|Q96JQ2|CLMN\_HUMAN Calmin OS=Homo sapiens GN=CLMN PE=1 SV=1  
MAAHEWDWFQREELIGQISDIRVQNLQVERENVQKRTFTRWINLHLEKCNPPLEVKDLFV  
DIQDGKILMALLEVLSGRNLLHEYKSSSHRIFRLNNAKALKFLEDENVKLVSIDAAEIA  
DGNPSLVGLIWNIIILFFQIKELTGNLSRNSPSSSLSPGSGGTDSDSSFPPTPTAERSVA  
ISVKDQRKAIKALLAWVQRKTRKYGVAVQDFAGSWRSGLAFLAVIKAIDPSLVDMKQALE  
NSTRENLEKAFSIAQDALHIPRLLEPEDIMVDTPEQSIMTYVAQFLERFPELEAEDIFD  
SDKEVPIESTFVRIKETPSEQESKVFLTENGERTYTVNHETSHPPPSKVFCDKPESMK  
EFRLDGVSSHALSDSSTEFMHQIIDQVLQGGPGKTSDISEPSPESSILSSRKENGSRNSL  
PIKKTVHFADTYKDPFCSKNLSLCFEGSPRVAKESLRQDGHVLAVEVAEEKEQKQESSK  
IPESSSDKVAGDIFLVEGTNNNSQSSSCNGALESTARHDEESHSLSPPGENTVMADSFQI  
KVNLMTVEALEEGDYFEAIPLKASKFNSDLIDFASTSQAFNKVPSPHETKPEDAEAFEN  
HAELGKRSIKSAHKKKDSPEPQVKMDKHEPHQDSGEEAEGCPSAPEETPVDDKKPEVHEK  
AKRKSTRPHYEEEGEDDDLQGVGEELSSSPSSSCVSLCTLGSHSEEGDLFKPSPLSKVS

VIPHDLFYFPHYEVPLAAVLEAYVEDPEDLKNEEMDLEEPEGYMPDLDSREEEADGSQSS  
SSSSVPGESLPSASDQVLYLSRGGVGTTPASEPAPLAPHEDHQRETkendPMDSHQSQE  
SPNLENIANPLEENVTKESISSKKKEKRKHVDHVESSLFVAPGSVQSSDDLEEDSSDYSI  
PSRTSHSDSSIYLRHRTSRSESDHFSYVQLRNAADLDDRRNRILTRKANSSGEAMSLGS  
HSPQSDSLTQLVQQPDMMYFILFLWLLVYCLLLFPQLDVSRL

>sp|075503|CLN5\_HUMAN Ceroid-lipofuscinosis neuronal protein 5 OS=Homo sapiens GN=CLN5  
PE=1 SV=2

MAQEVDTAQAEMRRGAGAARGRASWCWALALLWLAVVPGWSRVSGIPSRRHWPVPYKRF  
DFRPKDPYCYQAKYTCPTGSPIPVMEGDDDIIEVRLQAPVWEFKYGDLLGHLKIMHDAI  
GFRSTLTGKNYTMWYELFQLGNCTFPHLRPEMDAPFWCNQGAACFFEGIDDVHWKENG  
LVQVATISGNMFNQMAKWKQDNETGIYYETWNVKASPEKGAETWFDSDYDCSKFVLRFTN  
KLAEFGAEFKNIETNYTRIFLYSGEPTYLGNETSIVFGPTGNKTLGLAIKRFYYPFKPHLP  
TKEFLSLLQIFDAVIVHKQFYLFYNFEYWFLPMKFPFIKITYEEIPLPIRNKTLISGL

>sp|Q9NWW5|CLN6\_HUMAN Ceroid-lipofuscinosis neuronal protein 6 OS=Homo sapiens GN=CLN6  
PE=1 SV=1

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>sp|Q9H078|CLPB\_HUMAN Caseinolytic peptidase B protein homolog OS=Homo sapiens GN=CLPB  
PE=1 SV=1

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>sp|Q8IUQ0|CLVS1\_HUMAN Clavesin-1 OS=Homo sapiens GN=CLVS1 PE=1 SV=1

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>sp|Q99439|CNN2\_HUMAN Calponin-2 OS=Homo sapiens GN=CNN2 PE=1 SV=4

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>sp|Q9H8M5|CNNM2\_HUMAN Metal transporter CNNM2 OS=Homo sapiens GN=CNNM2 PE=1 SV=2  
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>sp|Q8NE01|CNNM3\_HUMAN Metal transporter CNNM3 OS=Homo sapiens GN=CNNM3 PE=1 SV=1  
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>sp|Q3B7I2|CNPY1\_HUMAN Protein canopy homolog 1 OS=Homo sapiens GN=CNPY1 PE=3 SV=1  
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GN=CNRIP1 PE=1 SV=1  
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>sp|P06681|C02\_HUMAN Complement C2 OS=Homo sapiens GN=C2 PE=1 SV=2  
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>sp|Q01955|C04A3\_HUMAN Collagen alpha-3(IV) chain OS=Homo sapiens GN=COL4A3 PE=1 SV=3

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>sp|P29400|C04A5\_HUMAN Collagen alpha-5(IV) chain OS=Homo sapiens GN=COL4A5 PE=1 SV=2

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>sp|P20908|C05A1\_HUMAN Collagen alpha-1(V) chain OS=Homo sapiens GN=COL5A1 PE=1 SV=3

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>sp|P01031|C05\_HUMAN Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

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>sp|A6NMZ7|C06A6\_HUMAN Collagen alpha-6(VI) chain OS=Homo sapiens GN=COL6A6 PE=1 SV=2

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>sp|Q02388|C07A1\_HUMAN Collagen alpha-1(VII) chain OS=Homo sapiens GN=COL7A1 PE=1 SV=2

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>sp|Q14055|C09A2\_HUMAN Collagen alpha-2(IX) chain OS=Homo sapiens GN=COL9A2 PE=1 SV=2

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>sp|Q14050|C09A3\_HUMAN Collagen alpha-3(IX) chain OS=Homo sapiens GN=COL9A3 PE=1 SV=2

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>sp|075128|COBL\_HUMAN Protein cordon-bleu OS=Homo sapiens GN=COBL PE=1 SV=2

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>sp|Q9Y281|COF2\_HUMAN Cofilin-2 OS=Homo sapiens GN=CFL2 PE=1 SV=1  
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>sp|Q14746|COG2\_HUMAN Conserved oligomeric Golgi complex subunit 2 OS=Homo sapiens GN=COG2  
PE=1 SV=1

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>sp|Q9H9E3|COG4\_HUMAN Conserved oligomeric Golgi complex subunit 4 OS=Homo sapiens GN=COG4  
PE=1 SV=3

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>sp|Q9P218|COKA1\_HUMAN Collagen alpha-1(X) chain OS=Homo sapiens GN=COL20A1 PE=1 SV=4  
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>sp|Q96P44|COLA1\_HUMAN Collagen alpha-1(XI) chain OS=Homo sapiens GN=COL21A1 PE=2 SV=1

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>sp|Q6ZS62|COLC1\_HUMAN Colorectal cancer-associated protein 1 OS=Homo sapiens GN=COLCA1  
PE=2 SV=1

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>sp|Q9Y215|COLQ\_HUMAN Acetylcholinesterase collagenic tail peptide OS=Homo sapiens  
GN=COLQ PE=1 SV=2

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>sp|Q8ND61|CC020\_HUMAN Uncharacterized protein C3orf20 OS=Homo sapiens GN=C3orf20 PE=2  
SV=2

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>sp|Q96M34|CC030\_HUMAN Uncharacterized protein C3orf30 OS=Homo sapiens GN=C3orf30 PE=2  
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SQAESSIFSQATNGVAEQNGHSTPGQAGRRASNPADVSDLRADDQVNQTPSEQTKGKASS  
QANNVQHEQSDGQVSGLTEERTAEQTERRLPQAERRTSQGIDGRLAMPSDQGRSRQTDH  
RMAGQSERRASEQMDRRMSGEAERTSEQITHRLSKLSERRPSVQIDSGSSVPSDQSPSV  
QIDSGSSVPSDQRPVQIDRRMSGKVRRSSEKTDYRLAGLADPGTSEQTDLRLYGLVDH  
KTSVKTHHQVYGQATELAEHQAIDQAHSNADQPPVDNAHYTESDQTDHLADRQANHKDQL  
SYYETRQSQSEDRIFPQLGNSKEDKEADYRVQPCKFEDSQVDLNSKPSVEMETQNATTIPP  
YNPVDARFTSNFQAKDQALFPRLPSISSKLNYSSEKTAIVTKSDEFSEIDQGKGYHI  
RNQTYRRFPSIVYEDPYQVSLQYMEKHHILQIFQQITENLVYEKPEDPLNFMLCQV

>sp|Q8NEF3|CC112\_HUMAN Coiled-coil domain-containing protein 112 OS=Homo sapiens  
GN=CCDC112 PE=1 SV=2

MEKDKHSHFYNQKSDFRIEHSMLEELNKL IHSRKTERAKIQQLAKIHNNVKKLQHQLK  
DVKPTPDFVEKLREMMEEIENAINTFKEEQRLIYEELIKEEKTNNELSAISRKIDTVAL  
GNSETEKAFRAISSKVPVDKVTSTLPEEVLD FEKFLQQTGGRQGAWDDYDHQNFVKVRN

KHKGKPTFMEEVLEHLPGKTQDEVQQHEKWYQKFLALEERKKESIQIWTKKQQKREEIF  
KLKEKADNTPVLFHNKQEDNQKQKEEQRRKKQLAVEAWKKQKSIEMSMKASQLKEEEEK  
EKKHQKERQRQFKLLLESYTQQKKEQEEFLRLEKEIREKAEKAERKNAADEISRFE  
RDLHKLELKILDRQAKEDKSKQRRLLAKLKEKVENNVSRDPSRLYKPTKGWEERTKKIG  
PTGSGPLLHIPHRAIPTWRQGIQRRV

>sp|Q96M63|CC114\_HUMAN Coiled-coil domain-containing protein 114 OS=Homo sapiens  
GN=CCDC114 PE=1 SV=3

MEGERRAYSKEVHQIRINKLEEIRRLLEEVRGDLQVQISAAQNQVKRLRDSQRLENMDRLL  
KGRAQVQAEIEELQEETRALDKQIQEWETRIFTHSKNVRSPGFILDQVKIRRRIRILEN  
QLDRVTCHEFDNLVRNAALREELDLLRIDRNRYLNVDRLKKEIHHLHHLVSTLILSSTS  
AYAVREEAKAKMGLLRERAEKEEAQSEMEAQVLQRQILHLEQLHHFLKLKNDRQPDPDV  
LEKREKQAGEVAEGVWKTQSERLVLQYEDALNKLSQLMGESDPDLLVQKYLEIEERNFAE  
FNFINEQNLELHVQEEIKEMQEALVSARASKDDQHLLQEQQQKVLQQRMDKVHSEAERL  
EARFQDVRGQLEKLKADIQLLFTKAHCDSSMIDDLGVKTSMDGRDMGLFSLIEKRLVE  
LLTVQAFLEHAQSFTSLADAALLVLGQSLDLPKKMAPLQPPDTLEDPPGFEASDDYPMSR  
EELLSQVEKLVELQEQAQKQDLAAAAAKLDGTLSDLASTQRAGSSTVLVPTRHPHA  
IPGSILSHKTSRDRGSLGHVTFGGLSSSTGHLPSTHGHDPNTGHVTFGSTASSGGHVT  
FRPVSASSYLSTGYVGSSRGENTEGGVESGGTASDSSGGLGSSRDHVSSTGPASSTGP  
GSSTSKDSRG

>sp|P13994|CC130\_HUMAN Coiled-coil domain-containing protein 130 OS=Homo sapiens  
GN=CCDC130 PE=1 SV=2

MGERKGVNKYPPDFNPEKHGSLNRYHNSHPLRERARKLSQGILIRFEMPYNIWCDGCK  
NHIGMGVRYNAEKKKVGNYTTPIYRFRMKCHLCVNYIEMQTDPANCDYVIVSGAQRKEE  
RWDMAEDNEQVLTTEHEKKQKLETDAMFRLEHGEADRSTLKKALPTLSHIQEAQSAWKDDF  
ALNSMLRRRFREKKKAIQEEERDQALQAKASLTIPVPETEDDRKLAALLKFHTLDSYE  
DKQKLKRTETISRSWFPSAPGSASSSKVSGVLKLAQSRRTALATSPITVGDGIVRRRS  
RDVPESQHAADTPKSGEPRVPEEAAQDRPMSPGDCPPETTETPKCSSPRGQEGSRQDKP  
LSPAGSSQEAADTPDRHPCSLGSSSLVADYSDSESE

>sp|Q6ZUS6|CC149\_HUMAN Coiled-coil domain-containing protein 149 OS=Homo sapiens  
GN=CCDC149 PE=2 SV=2

MANQLRERHQSLKKYRELIDGDPSPPEKRKQANLAQLLRDSQDRNKLHGEIEIKELQQR  
LGEVQGDNKLRLMTIAKQRLGDEAIGVRHFAAHEREDLVQQLERAKEQIESLEHDLQASV  
DELQDVKEERSYQDKVERLNQELNHILSGHENRIIDVDALCMENRYLQERLKLHHEVN  
LLKSNIAKYKNALERRRNSKGGKSSSSALTGVLSAKQVQDLLSEDHGCSLPATPQSISD  
LKSLATALLETIHEKNMVIQHQRQTNKILGNRVAELEKKLRTLEVSGLWSLPGGKDTILF  
SDPTLPSGQRSRSPLLKFVEQPTENKADPKDGEAQKQEEDESCAAAEALTAPEDAGRPV  
NSPANQSRGNQCKLFHPSLPQLPSEEEVNSLGREIIKLTKEQAAAELEEVRRRESPIEGQR  
SETGPAPPGLAIQGELPKSHLDSFEASRPAKASTPEDGKGIPGEGGMRSTVKT

>sp|Q9UNH5|CC14A\_HUMAN Dual specificity protein phosphatase CDC14A OS=Homo sapiens  
GN=CDC14A PE=1 SV=1

MAAESGELIGACEFMKDRLYFATLRNRPKSTVNTHYFSIDEELVYENFYADFGPLNLAMV  
YRYCCKLNKKLSYSLSRKKIVHYTCFDQKRANAAFLIGAYAVIYLKKTPEEAYRALLS  
GSNPPYLPFRDASFGNCTYNLTILDCLQGIKGLQHGFDFETFDVDEYEHYERVENGD  
NWIVPGKFLAFSGPHPKSKIENGYPHAPAYFPYFKKHNTAVVRLNKKIYEAKRFTDA

GFEHYDLFFIDGSTPSDNIVRRFLNICENTEGAI AVHCKAGLGRTGTLIACYVMKHRYFT  
HAEIIAWIRICRPGSIIGPQQHFLEEKQASLWVQGDIFRSKLKNRPSSEGSINKILSGLD  
DMSIGGNLSKTQNMERFGEDNLEDDDVEMKNGITQGDKL RALKSQRQPRTSPSCAFRSDD  
TKGHPRAVSQPFRLSSSLQGS AVTLKTSKMALSPSATAKRINRTSLSSGATVRSFSINSR  
LASSLGNLNAATDDPENKKTSSSSKAGFTASPFTNLLNGSSQPTTRNYPELNNNQYNRSS  
NSNGGNLNSPPGPHSAKTEHTTILRPSYTLGLSSSSARFLSRSIPSLQSEYVHY

>sp|O60729|CC14B\_HUMAN Dual specificity protein phosphatase CDC14B OS=Homo sapiens  
GN=CDC14B PE=1 SV=1

MKRKSERRSSWAAAPCSRRCSSSTSPGVKKIRSSTQQDPRRRDPQDDVYLDITDRLCFAI  
LYSRPKSASNVHYFSIDNELEYENFYADFGPLNLAMVYRYCCKINKKLKSITMLRKKIVH  
FTGSDQRKQANAAFLVGCYMYIYLGRTPEEAYRILIFGETSYIPFRDAAYGSCNFYITLL  
DCFHAVKKAMQYGFNLNFSNLD EYEHYKAENGDLNWIIPDRFIAFCGPHSRARLESGY  
HQHSPETYIQYFKNHNVTTIIRLNKRMYDAKRFTDAGFDHDLFFADGSTPTDAIVKEFL  
DICENAEGAI AVHCKAGLGRTGTLIACYIMKHRYMTAAETIAWVRICRPGSVIGPQQQFL  
VMKQTNLWLEGDYFRQKLKGQENGQHRAAFSKLLSGVDDISINGVENQDQEQPEPYSDDD  
EINGVTQGDRL RALKSRRQSKTNAIPLTVILQSSVQSCKTSEPNI SGAGITKRTRTSAS  
RKSSVKSLSISRTKTVLR

>sp|A6NGH7|CC160\_HUMAN Coiled-coil domain-containing protein 160 OS=Homo sapiens  
GN=CCDC160 PE=3 SV=3

MDARRKHWKENMFTPFSSAQDVLEETSEPESSSEQTTADSSKGMEEIYNLSSRK FQEESK  
FKRKKYIFQLNEIEQEQLRENKRNI SKNETDTSASYESSNVDVTTEESFNSTEDNSTC  
STDNLPALLRQDIRKKFMERMSPKLCLNLLNEELEELNMKYRKIEEEFENAEKELLHYKK  
EIFTKPLNFQETETDASKSDYELQALRNDLSEKATNVKNLSEQLQAKEV IHKLNLNERN  
LKEAVRKLKHQTEVGNVLLKEEMKSYELEM AKIRGELSVIKNELRTEKTLQARNNRALE  
LLRKYAYASSMVTSSSILDHFTGDFF

>sp|Q16543|CDC37\_HUMAN Hsp90 co-chaperone Cdc37 OS=Homo sapiens GN=CDC37 PE=1 SV=1

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRCRECKRK  
VAECQRKLKELEVAEGGKAELERLQAE AQQLRKEERSWEQKLEEMRKKESMPWNVDTLS  
KDGFSKSMVNTKPEKTEEDSEEVR EQKHKT FVEKYEKQIKHFGMLRRWDDSQKYLSDNVH  
LVCEETANYLV IWCIDLEVEEK CALMEQVAHQ TIVMQF ILELAKSLKVDPRACFRQFFTK  
IKTADRQYMEGFNDELEAFKERVGR AKLR IEKAMKEYEEEEERKKRLGPGGLDPVEVYES  
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPG  
DPLLEAVPKTGDEKDVSV

>sp|Q9H5L9|CE066\_HUMAN Putative uncharacterized protein C5orf66 OS=Homo sapiens  
GN=C5orf66 PE=5 SV=1

MGITPWPKGHTPEKGSYSLRKKPCYGTVAALDCAGCQEGMAEASVGLAQSESTTIMGHV  
CAERHTHDRYVTSMCPYLPLPMDGNAMDFSFLSSARAKQFFTVFSRSSSHLSAPQTGLLQ  
WITNLAGRPWPALTAASGAGMKQKQ

>sp|Q6ZU80|CE128\_HUMAN Centrosomal protein of 128 kDa OS=Homo sapiens GN=CEP128 PE=1 SV=2

MAESSSESDHFRCDRLSPWAARSTHRGTRSLPTVEVTEKVNTITSTLQDTSRNL RQVDQ  
MLGRYREYSNGAGAI EHLKESLEQS IDQLRSQRLLRNSGGRSISVTSLSASDL DGGTGS  
ELHHFPPTSPLKDYGDPQGIKRMSRTGVR FVQETDDMTQLHGFHQSLRDLSS EQIRLGD  
DFNRELSRRSRSDAETKRALEELTEKLNEAQKQEVVSDRVERRLQELEREMRTERELVER  
RQDQLGLMSLQLQEALKKQEAKADEHEGA IKNKLRQTETETKNQLEQELELSRLLNQSEG

SRETL LHQVEELRTQLTKAEGDRKGLQHVSQISKQSNYQDEQGEDWRFRRGVEREKQD  
LEKQMSDLRVQLNFSAMASELEEVKRCMERKDKEKAHLASQVENLTRELENGEKQQLQML  
DRLKEIQNHFDTC EAERKHADLQISELTRHAEDATKQAERYLSELQQSEALKEEA EKRRRE  
DLKKAQESIRQWKLKHKKLERALEKQSETVDEL TGKNNQILKEKDELKTQLYAALQQIE  
NLRKELNDVLT KRALQEEELHSKEEKL RDIKSHQADLELEVKNSLDTIHRLESELKKQSK  
IQSQMKVEKAHLEEEIAELKKSQAQDKAKLLEMQESIKDLSAIRADLANKLAE EERAKKA  
VLKDLSDLTAQAKSRDEETATITITQLKLERDVHQRELKDLTSSLQSVKTKHEQNIQELMK  
HFKKEKSEAENHIRT LKAESLEEKNMAK IHRGQLEKLKSQCDRLTEELTQ NENENKKLKL  
KYQCLKDQLEEREKHISIEEEHLRMEEARLQLKDQLLCLETE QESILGVIGKEIDAACK  
TFSKDSVEKLVKFSSGPD IHYDPHRWLAESKTKLQWLCEELKERENREKNLRHQLMLCRQ  
QLRNLTENKESELQCLFQQIERQEQLLDEIHREKRD LLEETQRKDEEMGSLQDRVIALET  
STQVALDHLESVPEKLSLLEDFKDFRDSCSSERTDGRYSKYRVRNNSLQHHQDDTKYRT  
KSFKGDRTFLEGSHTRGLDHSSSWQDHSRFLSSPRFSYVNSFTKRTVAPDSASNKEDATM  
NGTSSQPKKEEYGS

>sp|Q92674|CENPI\_HUMAN Centromere protein I OS=Homo sapiens GN=CENPI PE=1 SV=2

MSPQKRVKNVQAQNRTSQGSSSFQTTLSAWKVKQDPSNSKNISKHGQNNPVG DYEHADDQ  
AEEDALQMAVG YFEKGPIKASQNKDKTLEKHLKTVENVAWKNGLASEEIDILLNIALSGK  
FGNAVNTRILKCMIPATVISED SVVKAVSWLCVGKCSGSTKVL FYRWLVAMFDFIDRKEQ  
INLLYGFF FASLQDDALCPYVCHLLYLLTKKENVKPFRVRKLLDLQAKMGMPHLQALLS  
LYKFFAPALISVSLPVRKKIYFKNSEN LWKTALLAVKQRNRGPSPEPLKMLGPANVRPL  
KRKWNLSVIPVLNSSSYTKECGKKEMSLSDCLNRSGSFLEQLQSFPQLLQNIHCLELP  
SQMGSVLNN SLLLHYINCVRDEPVLLRFYYWLSQTLQEECIWYKVNNYEHGKEFTNFLT  
IIRAECFLQEGFYSC EAFLYKSLPLWDGLCCRSQFLQLVSWIPFSSFSEVKPL LFDHLAQ  
LFFTSTIYFKCSVLQSLKELLQNWLLWLSMDIHMKPVTNSPLETTLGGSMNSVSKLIHYV  
GWLSTTAMRLESNNTFLLHFI LDFYEKVCDIYINYNLPLVLFPPGIFYSALLSLDTSIL  
NQLCFIMHRYRKNLTAAKKNELVQKTKSEFNFSKTYQEFNHYLTSMVGCLWTSKPF GKG  
IYIDPEILEKTGVAEYKNSLNVVHHSF LSYAVSFLQESPEERTVNVSSIRGKKWSWYL  
DYLFSQLGLQLKLFIRSSVHHSSIPRAEGINCNNQY

>sp|Q7Z7K6|CENPV\_HUMAN Centromere protein V OS=Homo sapiens GN=CENPV PE=1 SV=1

MRRSRSSAAAKLRGQKRSGASGASAAPAASAAAALAPSATRRRSASQAGSKSQAVEKPP  
SEKPR LRRSPRAQEEGPGEPPPELALLPPPPPPPTPATPTSSASNLDLGEQRERWET  
FQKRQKLTSEGA KLLLDTFEYQGLVKHTGGCHGAVRFEVWASADLHIFDCNCSICKKK  
QNRHFIVPASRFKLLKGAEHITTYTFNTHKAQHTFCKRCGVQSFYTPRSNPGGFGIAPHC  
LDEGTVRSMVTEEFNGSDWEKAMKEHKTIKNMSKE

>sp|Q5EE01|CENPW\_HUMAN Centromere protein W OS=Homo sapiens GN=CENPW PE=1 SV=1

MALSTIVSQRKQIKRKAPRGFLKRVFKRKKPQLRLEKSGDLLVHLNCLLFVHRLAEESRT  
NACASKCRVINKEHVLAAAKVILKKS RG

>sp|Q8IW35|CEP97\_HUMAN Centrosomal protein of 97 kDa OS=Homo sapiens GN=CEP97 PE=1 SV=1

MAVARVDAALPPGEGSVVNWSGGLQKLGP NLPCEADIHTLILDKNQIIKENLEKCKRL  
IQLSVANNRLVRMMGVAKLTLLRV LNLPHNSIGCVEGLKELVHLEWNLAGNNLKAMEQI  
NSCTALQHLDSLNNISQIGDSLKLVSLK TLLLHGNIITSLRMAPAYLPRSLAILSLAEN  
EIRDLNEISFLASLTELEQLS IMNNPCVMATPSIPGFDYRPYIVSWCLNLRVLDGYVISQ  
KESLKAEWLYSQGKGRAYRPGQH IQLVQYLATVCPLTSTLGLQTAEDAKLEKILSKQRFH  
QRQLMNQSQNEELSPLVPVETRASLIPEHSSPVQDCQISQSEPV IQVNSWVGINSNDDQ



LFVAKNNFPASVHTTRYSRNDLHLEDIQTDDEKLNCSLLSSESTFMPVASGLSPLSPTVE  
LRLQGINLGLEDDGVADES VKGLESQVLDKEEEQPLWAANENSVQMMRSEINTEVNEKAG  
LLPCPEPTIIISAILKDDNHS LTFPESTEQKQSDIKKPENTQPENKETISQATSEKLPMI  
LTQRSVALGQDKVALQKLNDAA TKLQACWRGFYARNYNPQAKDVRYEIRLRMQEHIVCL  
TDEIRRLRKERDEERIKKFVQEEAFRFLWNQVRSLQVWQQTVDQRLSSWHTDVPPISSTL  
VPSKHLFTQSQESSCDQNADWFIASDVAPQEKS LPEFPDSGFHSSLTEQVHSLQHSLDF  
EKSSTEGSESSIMGNSIDTVRYGKESDLGDVSEEHGWNKESNNEQDNSLLEQYLTSVQ  
QLEDADERTNFD TETRDSKLHIACFPVQLDTLSDGASVDESHGISPPLQGEISQTQENSK  
LNAEVQGGQPECDSTFQLLHVGVTV

>sp|Q9Y6K0|CEPT1\_HUMAN Choline/ethanolaminephosphotransferase 1 OS=Homo sapiens GN=CEPT1  
PE=1 SV=1

MSGHRSTRKRCGDSHPESPVGFGHMSTTGCVLNKLFLQPTPPLSRHQLKRLEEHRYSAG  
RSLLLEPLMQGYWEWLVRVP SWIAPNLITIIIGLSINICTTILLVFYCPTATEQAPLWAYI  
ACACGLFIYQSLDAIDGKQARRTNSSSPLGELFDHGCDSLSTVFVVLGTCIAVQLGTNPD  
WMFFCCFAGTFMFYCAHWQTYVSGTLRFGI IDVTEVQIFIIMHLLAVIGGPPFWQSMIP  
VLNIQMKIFPALCTVAGTIFSCTNYFRVIFTGGVGKNGSTIAGTSVLS PFLHIGSVITLA  
AMIKKSAVQLFEKHPCLYILTFGFVS AKITNKL VVAHMTKSEMHLHDTAFIGPALLFLD  
QYFNSFIDEYIVLWIALVFSFFDLIRYCVSVCNQIASHLHIHVFRIKVSTAHSNHH

>sp|P00450|CERU\_HUMAN Ceruloplasmin OS=Homo sapiens GN=CP PE=1 SV=1

MKILILGIFLFLCSTPAWAKEKHYYIGI IETTWDYASDHGEKKLISVDTEHSNIYLQNGP  
DRIGRLYKKALYLQYTD ETRFTTIEKPVWLGFLGPI IKAETGDKVYVHLKNLASRPYTFH  
SHGITYYKEHEGAIYPDNTTDFQRADDKVYPGEQYTYMLLATEEQSPGEGDGNCVTRIYH  
SHIDAPKDIASGLIGPLIICKKDSL DKEKEKHIDREFVVMFSVVDENFSWYLEDNIKTYC  
SEPEKVDKDNE DFQESNRMYSVNGYTFGSLPGLSMCAEDRVKWLFGMGNEVDVHAFFH  
GQALTNKNYRIDTINLFPATLFDAYMVAQNPGEWMLSCQNLNHLKAGLQAFFQVQECNKS  
SSKDNIRGKHVRHYIIAAEEI IWNYPASGIDIFTKENLTAPGSDSAVF FEQGTTRIGGSY  
KKLVYREYTDASFTRNKRERGPEEEHLGILGPVIWAEVGD TIRVTFHNKGAYPLSIEPIGV  
RFNKNNEGTYSPNYPNQRSRVPPSASHVAPTETFTYEWTVPKEVGPTNADPVCLAKMY  
SAVDPTKDIFTGLIGPMKICKKGS LHANRQKDVDKEFYLFPTVFDENESLLEDNIRMF  
TTAPDQVDKEDEDFQESNKMHS MNGFMYGNQPGLTMCKGDSVVWYLF SAGNEADVHGIYF  
SGNTYLWRGERRD TANLFPQTSLTLHMWPDTEGTFNVECLT DHYTGGMKQKYTVNQRR  
QSEDSTFYLGERTYYIAAVEVEWDYSPQREWEKELHHLQE QNVSN AFLDKGEFYIGSKYK  
KVYVRQYTDSTFRVPVERKAE EHLGILGPQLHADVGDKVKIIFKNMATRPYSIHAHGVQ  
TESSTVPTPLGETLTYVWKIPERSGAGTEDSACIPWAYYSTVDQVKDLYSGLIGPLIVC  
RRPYLKVFNPRRKLEFALLFLVFDENESWYLD DNIKTYSDHPEKVNKDDEEFIESNKMHA  
INGRMFGNLQGLTMHVGDENVWYLMGMGNEIDLHTVHFHGH SFQYKHRGVYSSDVFDIFP  
GTYQTLEMFPRTPGIWLLHCHVTDHIHAGMETTYTVLQNE DTKSG

>sp|Q6UXA7|CF015\_HUMAN Uncharacterized protein C6orf15 OS=Homo sapiens GN=C6orf15 PE=2  
SV=3

MQGRVAGSCAPLGLLLVCLHLPGLFARSIGVVEEKVSQNLGTNLPQLGQPSSTGPSNSEH  
PQPALDPRSN DLARVPLKLSVPASDGFP PAGGS AVQRWPPSWGLPAMDSWPPEDPWQMM  
AAAE DRLGEALPEELSYLSSAAALAPGSGPLPGESSPDATGLSPKASLLHQDSESRR LPR  
SNSLGAGGKILSQRPPWSL IHRVLPDHPWGT LNPSVSWGGGGPGTGWTRPMPHPEGIWG  
INNQP PGTSWGNINRYPGGSWGNINRYPGGSWGNINRYPGGSWGNIHLYPGINNPFP PGV

LRPPGSSWNIPAGFPNPPSPRLQWG

>sp|Q8N0U6|CF218\_HUMAN Putative uncharacterized protein encoded by LINC00518 OS=Homo sapiens GN=LINC00518 PE=5 SV=1

MDSSDETGSSFMSFWPHLQSDDLARNGITGFPYFSFIILNESDQILELDGTLVKIWLLVP  
SHQPATHFKFEETKTHGPYVITGDYPRSLWQKSASSLPASPPCLWYFLPTLGCFCDHT

>sp|Q9Y6A4|CFA20\_HUMAN Cilia- and flagella-associated protein 20 OS=Homo sapiens GN=CFAP20 PE=1 SV=1

MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYIT  
CPADPKKTLGIKLPFLVMI IKNLKKYFTFEVQVLDDKNVRRRFRASNYQSTTRVKPFICT  
MPMRLLDGGWNQIQFNLLDFTRRAYGTNYIETLRVQIHANCRIRRVYFSDRLYSEDELPAE  
FKLYLPVQNKAKQ

>sp|Q8IZ16|CG061\_HUMAN Uncharacterized protein C7orf61 OS=Homo sapiens GN=C7orf61 PE=2 SV=1

MVVVMKFFRWVRRWQRIISWVFFWRQKIKPTISGHPDSKKHSLKKMEKTLQVVETLRLV  
ELPKEAKPKLGESPELADPCVLAKTTEETEVELGQQGQSLLQLPRTAVKSVSTLMVSALQ  
SGWQMCSWKSSVSSASVSSQVRTQSPLKTPEAELLWEVYLVLVAVRKHLRRLYRRQERHR  
RHHVRCHAAPRPNPAQSLKLDASPL

>sp|Q6ZTY9|CG065\_HUMAN Uncharacterized protein C7orf65 OS=Homo sapiens GN=C7orf65 PE=2 SV=1

MRMAPTESTEGRRLWPGPREGSGKETTSEKLSNLPRPHSYSPKRADAESFRGVPAAFKK  
CREVFRACWGSRELLFLFKAISEAGPAQNSCGITLEKAGGLEDTGSHWLSWARCKVLYIN  
GFTDPWKDAQAWILIVSCKKGKGTPEREGRN

>sp|Q9BRJ6|CG050\_HUMAN Uncharacterized protein C7orf50 OS=Homo sapiens GN=C7orf50 PE=1 SV=1

MAKQKRKVPEVTEKKNKKLKKASAEGPLLGPAAAPSGEGAGSKGEAVLRPGLDAEPELSP  
EEQVRLERKLKKERKKEERQRLREAGLVAQHPPARRSGAELALDYLCRWAQKHKNWRFQK  
TRQTWLLLHMYDSKVPDEHFSTLLAYLEGLQGRARELTVQKAEALMRELDEEGSDPPLP  
GRAQRIRQVLQLLS

>sp|P32929|CGL\_HUMAN Cystathionine gamma-lyase OS=Homo sapiens GN=CTH PE=1 SV=3

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEY  
SRSGNPTRNCLEKAVAALDGAKYCLAFASGLAATVTITHLKAGDQIICMDDVYGGTNRY  
FRQVASEFGLKISFVDCSKIKLLEAAITPETKLVIETPTNPTQKVIDIEGCAHIVHKHG  
DIILVVDNTFMSPYFQRPLALGADISMYSATKYMNGHSDVVMGLSVNCESLHNRLRFLQ  
NSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQH  
ELVKRQCTGCTGMVTFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAEIPAIMTHASVL  
KNDRDVLGISDTLIRLSVGLEDEEDLLEDLDQALKAHPPSGSHS

>sp|Q96CB5|CH044\_HUMAN Putative uncharacterized protein C8orf44 OS=Homo sapiens GN=C8orf44 PE=2 SV=2

MRKNESYLNQPAPPIPIPTLSLMGGCREHFENHWKGRARWLMPVIPALWEAKAGRSPEVR  
SSKPAWPTWRNPIFTKNTKISQVLELFLNYQSLICALEKQKRQKGS LAIFCWSFQGGCVS  
KRPDVP SLKSQKPKRK RITGRKRLSKGFW SLLFSNLGRF

>sp|Q8IZ52|CHSS2\_HUMAN Chondroitin sulfate synthase 2 OS=Homo sapiens GN=CHPF PE=1 SV=2

MRASLLLSVLRPAGPVAVGISLGFTLSLLSVTWVEEPCGPGPPQPGDSELPPRGNTNAAR  
RPNSVQPGAEREKPGAGEGAGENWEPRVLPYHPAQPGQA AKKAVRTRYISTELGIRQLL

VAVLTSQTTLPTLGVAVNRTLGHRLERVVFLTGARGRRAPPGMAVVTLGEERPIGHLHLA  
LRHLLQHGDDDFWFLVPDTTYTEAHGLARLTGHLASAAHLYLGRPQDFIGGEPTPG  
RYCHGGFGVLLSRMLLQQLRPHLEGCRNDIVSARPDEWLGRCILDATGVGCTGDHEGVHY  
SHLELSPGEPVQEGDPHFRSALTAHPVRDPVHMYQLHKAFARAELEPTYQEIQELQWEIQ  
NTSHLAVDGDQAAAWPVGIPAPSRPASRFEVLRWDYFTEQHAFSCADGSPRCPLRGADRA  
DVADVLGTALEELNRRYHPALRLQKQQLVNGYRRFDPARGMEYTLDLQLEALTPQGGRRP  
LTRRVQLLRPLSRVEILPVPYVTEASRLTVLLPLAAAERDLAPGFLEAFATAALEPGDAA  
AALTLLLLYEPRQAQRVAHADVFAPVKAHVAELERRFPGARVPWLSVQTAAPSPLRLMDL  
LSKKHPLDTLFLLAGPDTVLTDFLNRCRMHAISGWQAFFPMHFQAFHPAVAPPQGP  
ELGRDTGRFDRQAASEACFYNSDYVAARGRLAAASEQEEELLES LDVYELFLHFSSLHVL  
RAVEPALLQRYRAQTCSARLSEDLYHRCLQSVLEGLGSRTQLAMLLFEQE QGNST

>sp|Q9Y3Y2|CHTOP\_HUMAN Chromatin target of PRMT1 protein OS=Homo sapiens GN=CHTOP PE=1 SV=2

MAAQSA PKVVLKSTTKMSLNERFTNMLKNKQPTPVNIRASMQQQQQLASARNRRLAQQME  
NRPSVQAALKLKQSLKQRLGKSNIQARLGRPIGALARGAIGGRGLPIIQRGLPRGGLRGG  
RATRLLRGGMSLRGQNLRLGGRAVAPRMGLRRGGVVRGGPGRGGGLRGAMGRGGIGGR  
GRGMIGRGRGGFGGRGRGRGRGALARPVLTKQLDNQLDAYMSKTKGHLDAELDAYMA  
QTD PETND

>sp|Q8NAJ2|CI106\_HUMAN Putative uncharacterized protein C9orf106 OS=Homo sapiens GN=C9orf106 PE=2 SV=1

MAYVALSDKPHLSGEVGEACSSWNPPFLSPRPLPRLWPLPGTPFLPIRALPFSASSSGK  
SSLVSPSSSAHSGFRTPCLGPDCLLCTQGCELHEGRNHMAVHSCVARAWPGDPQEVRL  
NPLLCDPGSQVEPSWPWHPGLEQAAASWVG NHVSPAHRQALRGHSLGSALRALMPGRHCP  
LCVPCKRGCDLRGGRGKHGPRCCPLL RKFPVLPVHPWPFPCAVWDSGWSR

>sp|A2RU37|CI170\_HUMAN Uncharacterized protein C9orf170 OS=Homo sapiens GN=C9orf170 PE=2 SV=1

MWSRRGLGVSRAPLHLLLVWGPGSGRTGGQRKGASLARPGRGGLASCSVGANGKRDVFL  
RKTLTNTVEDIQIDNFRKSDLGVGSPDWKNLLIDVTREDHENSQNN SKRRCKVNCETDQ  
R

>sp|Q96D05|CJ035\_HUMAN Uncharacterized protein C10orf35 OS=Homo sapiens GN=C10orf35 PE=1 SV=1

MVRILANGEIVQDDDPVRVTTTQPPRGSI PRQSFFNRGHGAPPGGPGPRQQAGARLGAA  
QSPFNDLNRQLVNMGFPQWHLGNHAVEPVTSILLFLMLLGV RGLLLVGLVYLVSHLSQ  
R

>sp|Q8N8P7|CK044\_HUMAN Uncharacterized protein C11orf44 OS=Homo sapiens GN=C11orf44 PE=2 SV=1

MVLLCLFLASLAATPRAGVTGAWPTSGLSILAQLQPSCEL RWTQLSRSSWRDLVMTTSLW  
SLAYFQHFSQETTTQEQLDEMEEIPRESQCGRQDFHALSCPTASPRDRVLLCCPGWRAMV  
PS

>sp|Q8N6U2|CLO33\_HUMAN Putative uncharacterized protein encoded by LINC00612 OS=Homo sapiens GN=LINC00612 PE=5 SV=1

MRRCRRCARWPHRCPGPQSGPRSHFSPWPRTLGPAPALCVRTPLRPGPSSALGPLSACPS  
VPDYTASPPAGDSARSIVAASRAAGSGSTPGAGSKDCSPPHSHSAAAAGESGDIGPGSG  
AVEAPGRGARRPTRQREDGGGAVGCFGVSRHRGREAQMSHSHCGSRSCSAAAARPSLLQ

LA

>sp|Q8IXR9|CLO56\_HUMAN Uncharacterized protein C12orf56 OS=Homo sapiens GN=C12orf56 PE=2 SV=3

MASPLPSGFPARRNSRLDVFLRRHLPPEVYDAVRAYEPCIVVSNSENHILKYVVLSDRLV  
YLTENPPKSIRRVALRDVVAIDLIDYPEFLSSPDREISQHIRIIYSSTVLKKECKKSN  
SVRKFLFPFHHTKANNKKVKEEKNGLAFWRSKESRSLKESPLRDQQESSTPSKDSTLCPR  
PGLKKLSLHGQGAFRPLPSPSRSSQSAPTGTGKAVSEPSCTTNTKEPQGLPDHNSISEIP  
FKCNGNGNEFYLGNSLLDPSQSNSNLEKKESELHLYVISTSSIFLHLKSSWNNYIIKA  
TLLQDPFYASEFSPAIGSQKPYRSEEEKIKHFSQLKSELFLKDNSLRRILSLLMELKVAQA  
KNFILKRLFWKTSDFYFIVNKLHEYLPESRDNALQNSQSRVDELVACIEIIQTLVLMF  
RETETESSRLNTLAAKKGALFNLLVILISEPQIPKSCPVFQIQLVADSALVRMSFDAELQ  
KLILEYNTATALLYEILLVFQQGNLGLGSTKFAISWIMSFLQSCPPIITFVASIVKQVV  
RGLSASFQLLSPCQAVLLYQQFYILKSLRHSRTLAEYIRNNYREEFRYFIHMPALQKRL  
PLCYPITQPTIQLFHEVLKLV

>sp|Q96MD2|CLO66\_HUMAN UPF0536 protein C12orf66 OS=Homo sapiens GN=C12orf66 PE=2 SV=4

MGESIPLAAPVPVEQAVLETFFSHLGIFSYDKAKDNVEKEREANKSAGGSWLSLLAALAH  
LAAAEKVYHSLTYLGQKLGGSFFSRKDSIRTIYTSLNELKKVVTGRGALGGTAPHVEE  
LLSHLSEQLCFFVQARMEMADFYEKMYTLSTQKFIAEELVGLLDAIMKKYSSRFHHPIL  
SPLESSFQLEVDVLCHLLKAQAQVSEWKFLPSLVNLHSAHTKLQTWGQIFEQRETKHL  
FGGQSQKAVQPPHFLFLWMLKLNMLLAKFSFYFHEALSRRQTASEMKTLTAKANPDFFGK  
ISSFIRKYDAANVSLIFDNRGSESFQGHGYHHPHSYREAPKGVQYPAVVSPLSDRPVMH  
WPNVIMIMTDRTSDLNSLEKVVHFYDDKVQSTYFLTRPEPHFTIVIIIFESKKSERDSHFI  
SFLNEVSLALKNPVFASLKPGAKG

>sp|Q5QGZ9|CL12A\_HUMAN C-type lectin domain family 12 member A OS=Homo sapiens GN=CLEC12A PE=1 SV=3

MSEEVTYADLQFQNSSEMEKIPEIGKFGEKAPPAPSHVWRPAALFTLLCLLLLIGLGVL  
ASMFHVTLKIEMKKMNKLQNISEELQRNISLQMSNMNISNKIRNLSTTLQTIATKLCRE  
LYSKEQEHKCKPCRRRIWHKDCSYFLSDDVQTWQESKMACAAQNASLLKINNKNLEFI  
KSQSRSDYDWLGLSPEEDSTRGMRVDNIINSSAWVIRNAPDLNNMYCGYINRLYVQYYHC  
TYKKRMICEKMANPVQLGSTYFREA

>sp|A5D8T8|CL18A\_HUMAN C-type lectin domain family 18 member A OS=Homo sapiens GN=CLEC18A PE=1 SV=3

MLHPETSPGRGHLLAVLLALLGTAWAEVWPPQLQEAPMAGALNRKESFLLLSLHNRLRS  
WVQPPAADMRRLDWSLSLAQLAARAALCGTPTPSLASGLWRTLQVGWNMQLLPAGLVSF  
VEVVSLEWFAEGQRYSHAAGECARNATCTHYTQLVWATSSQLGCGRHLCASAGQAAIEAFVC  
AYSPRGNWEVNGKTIVPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPCRMSCQNHG  
RLNISTCHCHCPPGTGRYQCVRCSLQCVHGRFREEECSCVCDIGYGGAQCATKVHFPFH  
TCDLRIDGDCFMVSSEADTYRARMKCQRKGGVLAQIKSQKVQDILAFYLRLETTNEVI  
DSDFETRNFWIGLTYKTAKDSFRWATGEHQAFTSFAFGQPDNHGFGNCVELQASAAFNWN  
DQRCKTRNRYICQFAQEHISRWGPGS

>sp|P51793|CLCN4\_HUMAN H(+)/Cl(-) exchange transporter 4 OS=Homo sapiens GN=CLCN4 PE=1 SV=2

MVNAGAMSGSGNLMDFLDEFPDVGTYEDFHTIDWLREKSRDTRHRKITSKSKESIWEF  
IKSLDAWSGVVMLLIGLLAGTLAGVIDLAVDWMTDLKEGVCLSAFWYSHEQCCWTSNE

TTFEDRDKCPLWQKWESELLVNQSEGASAYILNYLMYILWALLFAFLAVSLVRVFAPYACG  
SGIPEIKTILSGFIIRGYLGKWTLLIKTVTLVLVVSSGLSLGKEGPLVHVACCCGNFFSS  
LFSKYSKNEGKRREVLAAAAAGVSVAFGAPIGGVLFSLLEEVSYFPLKTLWRSFFAALV  
AAFTLR SINPFGNSRLVLFYVEYHTPWYMAELFPFILLGVFGGLWGTLFIRCNIACRRR  
KTTRLGKYPVLEVIVVTAITAI IAYPNPYTRQSTSELISELFNDCGALESSQLCDYINDP  
NMTRPVDDIPDRPAGVGVTAMWQLALALIFKIVVTIFTFGMKIPSGLFIPSMAGAIAG  
RMVGIGVEQLAYHHHDWIIFRNWCRCGADCVTPGLYAMVGAAACLGVTMTVSLVIMF  
ELTGLEYIVPLMAAAVTSKWVADAFGKEGIYEAHIHLNGYPFLDVKDEFTHRTLATDVM  
RPRRGEPPLSVLTQDSMTVEDVETLIKETDYNFGFPVVVSRDSERLIGFAQRRELILA IKN  
ARQRQEGIVSNSIMYFTEEPPELPANSPHPLKLRRILNLSPTVTDHTPMETVVDIFRKL  
GLRQCLVTRSGRLGIITKKDVLRHMAQMANQDPESIMFN

>sp|P51798|CLCN7\_HUMAN H(+)/Cl(-) exchange transporter 7 OS=Homo sapiens GN=CLCN7 PE=1  
SV=2

MANVSKKVSWSGRDRDDEEAAPLLRRTARPGGGTPLLNGAGPGAARQSPRSALFRVGHMS  
SVELDELDPDMDPPHPFKEIPHNEKLLSLKYESLDYDNSENQLFLEEERRINHAFR  
TVEIKRWVICALIGILTGLVACFIDIVVENLAGLKYRVIKGNIDKFTEKGLSFSLLLWA  
TLNAAFVLVGSVIVAFIEPVAAGSGIPQIKCFLNGVKIPHVVRLKTLVIKVSIVLSVVG  
GLAVGKEGPMIHSGSVIAAGISQGRSTSLKRDFKIFEYFRDTEKRDFVSAGAAAGVSAA  
FGAPVGGVLFSLLEEGASFWNQFLTWRIFASMISTFTLNFVLSIYHGMMWDLSSPGLINF  
GRFDSEKMAYTIIHEIPVFIAMGVVGGVLGAVFNALNYWLTMFRIYIHRPCLQVIEAVLV  
AAVTATVAFVLIIYSSRDQPLQGGSMSYPLQLFCADGEYNSMAAAFFNTPEKSVVSLFHD  
PPGSYNPLTLGLFTLVYFFLACWTYGLTVSAGVFIPSLLIGAAWGRLFGISLSYLTGAAT  
WADPGKYALMGAQAQGGIVRMTLSLTVIMMEATSNVTYGFPIMLVMTAKIVGDVFIEG  
LYDMHIQLQSVPLHWEAPVTSLSLTAREVMSTPVTCLRRREKVGVIQVLSDTASNHG  
FPVVEHADDTPARLQGLILRSQILVLLKHKVFVERS NLGLVQRRLRLKDFRDAYPRFP  
IQSIHVSQDERECTMDLSEFMNPSPTYVPQEASLPRVFKLFRALGLRHLVVVDNRNQVVG  
LVTRKDLARYRLGKRGLEELSLAQT

>sp|P56749|CLD12\_HUMAN Claudin-12 OS=Homo sapiens GN=CLDN12 PE=1 SV=1

MGCRDVHAATVLSFLCGIASVAGLFAGTLLPNWRKLRLITFNRNEKNLTVYTGLWVKCAR  
YDGSDDLCLMYDTTWYSSVDQLDLRVLQFALPLSMLIAMGALLCLIGMCNTAFRSSVPNI  
KLAKCLVNSAGCHLVAGLLFFLAGTVSLSPSIWVIFYNIHLNKKFEPVFSFDYAVVYTIA  
SAGGLFMTSLILFIWYCTCKSLSPFWQPLYSHPPSMHTYSQPYSARSRLSAIEIDIPVV  
SHTT

>sp|P56750|CLD17\_HUMAN Claudin-17 OS=Homo sapiens GN=CLDN17 PE=1 SV=1

MAFYPLQIAGLVGLGMVGTATLLPQWRVSAFVGSNIIVFERLWGLWMNCIRQARV  
RLQCKFYSSLLALPPALETARALMCVAVALSLIALLIGICGMKQVQCTGSNERAKAYLLG  
TSGVLFI LTGIFVLIPVSWTANIIIRDFYNPAIHIGQKRELGAALFLGWASAAVFIGGG  
LLCGFCCCNKKQGYRYPVPGYRVPHTDKRRNTTMSKTSTSYV

>sp|Q8N7P3|CLD22\_HUMAN Claudin-22 OS=Homo sapiens GN=CLDN22 PE=2 SV=3

MALVFRTVAGLAGVSLSLGWVLSCLTNYLPHWKNLNLNEMENWTMGLWQTCVIEEV  
GMQCKDFDSFLALPAELRVSRILMFLSNGLGFLGLLVSGFGLDCLRIGESQRDLKRRLII  
LGGILSWASGVTALVPVSWVAHKTVQEFWDENVPDFVPRWEFGAALFLGWFAGLSLLLGG  
CLLHCAACSSHAPLASGHYAVAQTQDHHQELETNTNLKH

>sp|C9JDP6|CLD25\_HUMAN Putative claudin-25 OS=Homo sapiens GN=CLDN25 PE=5 SV=1

MAWSFRAKVQLGGLLSLLGWVCSCVTTILPQWKTNLNLELNEMETWIMGIWEVCVDREEV  
ATVCKAFESFLSLPQELQVARILMVASHGLGLLGLLLCSFGSECFQFHRIRWVFKRRLGL  
LGRTLEASASATLLPVSWVAHATIQDFWDDSIPIIPRWEFGGALYLGWAAGIFLALGG  
LLLIFSACLGKEDVPFPLMAGPTVPLSCAPVEESDGSFHLMLRPRNLVI

>sp|O14493|CLD4\_HUMAN Claudin-4 OS=Homo sapiens GN=CLDN4 PE=1 SV=1  
MASMGLQVMGIALAVLGWLAVMLCCALPMWRVTAFIGSNIVTSQTIWEGLWMNCVVQSTG  
QMCKVYDLSLLALPQDLQAARALVIISIIAALGVLLSVVGKCTNCLEDESAKAKTMIV  
AGVVFLLAGLMVIVPVSWTAHNIQDFYNPLVASGQKREMGASLYVGWAASGLLLGGGL  
LCCNCPRTDKPYSAKYSAAASAAASNYV

>sp|P56747|CLD6\_HUMAN Claudin-6 OS=Homo sapiens GN=CLDN6 PE=1 SV=2  
MASAGMQLGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWMSCVVQSTG  
QMCKVYDLSLLALPQDLQAARALCVIALLLVALFGLLVYLAGAKCTTCVEEKDSKARLVT  
SGIVFVISGVLTLPVCWTAHAIIRDYFNPLVAEAQKRELASLYLGWAASGLLLGGGL  
LCCTCPSGGSQGPHYMARYSTSAPAIRGPSEYPTKNYV

>sp|Q9NY35|CLDN1\_HUMAN Claudin domain-containing protein 1 OS=Homo sapiens GN=CLDND1 PE=1  
SV=1

MDNRFATAFVIACVLSLISTIYMAASIGTDFWYEYRSPVQENSSDLNKSIDEFISDEAD  
EKTYNDALFRYNGTVGLWRRICITIPKNMHWYSPPERTESFDVVTKCVSFTLTEQFMEKFV  
DPGNHNSGIDLLRITYLWRCQFLPFVSLGLMCFGALIGLCACICRSLYPTIATGILHLLA  
GLCTLGVSVCYVAGIELLHQLELPDENVSGEFGWSFCLACVSAPLQFMASALFIWAAHTN  
RKEYTLMKAYRVA

>sp|O14967|CLGN\_HUMAN Calmegin OS=Homo sapiens GN=CLGN PE=1 SV=1  
MHFQAFWLCLGLLFISINAEFMDDDVETEDFEENSEEIDVNESELSSEIKYKTPQPIGEV  
YFAETFDSGRLAGWVLSKAKKDDMDEEISIDGRWEIEELKENQVPGDRGLVLKSRAKHH  
AISAVLAKPFIADKPLIVQYEVNFQDGIDCGGAYIKLLADTDDLILENFYDKTSYIMF  
GPDCKGEDYKLFIFRHKHPKTGVFEEKHAKPPDVLKKFFTDRKTHLYTLVMNPDDTFE  
VLVDQTVVNKGSLLLEDVVPPIKPPKEIEDPNDKKPEEWDERAKIPDPSAVKPEDWDESEP  
AQIEDSSVVKPAGWLDDEPKFIPDPNAEKPDDWNEDTDGEWEAPQILNPACRIGCGEWP  
PMIDNPKYKGVWRPPLVDNPNYQGIWSPRKIPNPDYFEDDHPFLTSFSALGLELWSMTS  
DIYFDNFIICSEKEVADHWAADGWRWKIMIANANKPGVLKQLMAAAEGHPWLWLIYLVTA  
GVPIALITSFCWPRKVKKHKDTEYKKTIDICIPQTKGVLEQEEKEEKALEKPMDEEEK  
KQNDGEMLEKEESEEPEEKSEEEIEIEGQEEESNQSNKSGSEDEMKEADESTGSGDGPIK  
SVRKRVRKD

>sp|Q00610|CLH1\_HUMAN Clathrin heavy chain 1 OS=Homo sapiens GN=CLTC PE=1 SV=5  
MAQILPIRFQHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSN  
PIRRPISADSAIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVA  
LVTDNAVYHWSMEGESQPVKMFDRHSSLAGCQIINYRTDAKQKWLTLTGISAQQNRVVG  
MQLYSVDRKVSQPIEGHAASFAQFKMEGNAAESTLFCFAVRGQAGGKLHIIIEVGTPPTGN  
QFPFKAVDVFFPPEAQNDFPVAMQISEKHDVVFLITKYGYIHLYDLETGTCTIYMNRI  
ETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRMAVRNNLAGA  
EELFARKFNALFAQGNYSEAAKVAANAPKGILRTPDTIRRFQSVPAQPGQTSPLLQYFGI  
LLDQGGQLNKYESLELCRPVLQGRKQLLEKWLKEDKLECSEELGDLVKSVDPTLALSVYL  
RANVPNKVIQCAETGQVQKIVLYAKKVGYPDWIFLLRNVMRISPDQGGQFAQMLVQDE  
EPLADITQIVDVMEYNLIQCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAIL

GNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHTHLLNPEWL VNYFGSLSV  
EDSLECLRAMLSANIRQNLQICVQVASKYHEQLSTQSLIELFESFKSFEGLFYFLGSIVN  
FSQDPDVHFKYIQAACKTGQIKEVERICRESNCYDPERVKNFLKEAKLTDQLPLIIVCDR  
FDFVHDLVLYLYRNNLQKYIEIYVQKVNPSRLPVVIGLLDVCSEDIKNLILVVRGQF  
STDELVAEVEKRNRLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPHY  
DSRVVGKYCEKRDPHLACVAYERGQCDLEL INVCNENSLFKSLSRYL VRRKDPELWGSVL  
LESNPYRRPLIDQVVQTALSETQDPEEVS VTKAFMTADLPNELIELLEKIVLDNSVFSE  
HRNLQNLILTAIKADRTRVMEYINRLDNYDAPDIANIAISNELFEEAFIFRKFDVNTS  
AVQVLEI HIGNLDRA YEFAERCNEPAVWSQLAKAQLQKGMVKEAIDSYIKADDPSSYMEV  
VQAANTSGNWEELVKYLQMARKKARESYVETELIFALAKTNRLAELEEFINGPNNAHIQQ  
VGDRCYDEKMYDAAKLLYNNVS NFGRLASTLVHLGEYQAAVDGARKANSTRTWKEVCFAC  
VDGKEFRLAQMCGLHIVVHADELEEL INYYQDRGYFEELITMLEAALGLERAHMGMTTEL  
AILYSKFKPQKMREHLELFWSRVNIPKVLRAAEQAHLWAEVFLYDKYEEYDNAIITMMN  
HPTDAWKEGQFKDIIITKVANVELYYRAIQFYLEFKPLLLNDLLMVLSPRLDHTRAVNYFS  
KVKQLPLVKPYLRSVQNHNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLE  
KHELIEFRRIAAYLFKGNRQKQSVELCKKDSLYKDAMQYASESKDTELAEEELQWFLQE  
EKRECFGACLFCTCYDLLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLR  
KEEEQATETQPIVYGQPQLMLTAGPSVAVPPQAPFGYGYTAPPYGPQPGFGYSM

>sp|095833|CLIC3\_HUMAN Chloride intracellular channel protein 3 OS=Homo sapiens GN=CLIC3  
PE=1 SV=2

MAETKLQLFVKASEDGESVGHCPSCQRLFMVLLLKGVPTLT TTDTRRSPDVLKDFAPGS  
QLPILLYDSDAKTDTLQIEDFLEETLGPPDFPSLAPRYRESNTAGNDVFHKFSAFIKNPV  
PAQDEALYQQLRLARLDSYLRAPLEHELAGEPQLRESRRRFLDGDRLTLADCSLLPKL  
HIVDTVCAHFRQAPIPAELRGVRRYLD SAMQEKEFKYTCPHSAEILAAAYRPAVHPR

>sp|Q9UDT6|CLIP2\_HUMAN CAP-Gly domain-containing linker protein 2 OS=Homo sapiens  
GN=CLIP2 PE=1 SV=1

MQKPSGLKPPGRGGKHSSPMGRTSTGSASSSAAVAASSKEGSPLHKQSSGPSSSPAAAAA  
PEKPGPKAAEVGDDFLGDFVVGGERVWVNGVKPGVVQYLGETQFAPGQWAGVVLDDPVGKN  
DGAVGGVRYFECPALQGIFTRPSKLTRQPTAEGSGSDAHSVESLTAQNL SLHSGTATPPL  
TSRVIPLRESVLNSSVKTGNEGSNLSDSGSVKRGEKDLRLGDRVLVGGTKTG VVRVYGE  
TDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCPPKFGLFAPIHKVIRIGFPSTSPAKAKK  
TKRMAMGVSA LTHSPSSSSISSVSVASSVGGPRPSRGLLTETSSRYARKISGTTALQEA  
LKEKQQHIEQLLAERDLERA EVAKATSHICEVEKEIALLKAQHEQYVAEAEKLQRARLL  
VESVRKEKVDLSNQLEEERRKVEDLQFRVEEESITKGDLETQTQLEHARIGELEQSLLLE  
KAQAERLLRELADNRLTTVAEKSRVLQLEEELTLRRGEIEELQQCLLHSGPPPPDHPDAA  
EILRLRERLLSASKEHQRESGVL RDKYEKALKAYQAEVDKLRAANEKYAQEVAGLKDKVQ  
QATSENMG LMDNWKSKLDSLADSHQKSLEDL KATLNSGPGAQQKEIGELKAVMEGIKMEH  
QLELGNLQAKHDLETAMHVKEKEALREKLQEAQEELAGLQRHWRAQLEVQASQHRLELQE  
AQDQRRDAELRVHELEKLDVEYRQQAQAEFLKEQISLA EKKMLDYERLQRAEAQ GKQEV  
ESLREKLLVAENRLQAVEALCSSQHTHMIESNDISEETIRTKETVEGLQDKLNKRDK EVT  
ALTSQTEMLRAQVSALESKCKSGEKKVDALLKEKRRLEAELETVSRKTHDASGQLVLISQ  
ELLRKERSL NELRVLLLEANRHSPGPERDLSRE VHKAEWRIKEQKLKDDIRGLREKLTGL  
DKEKSLSDQRRYSLIDRSSAPELLRLQHQLMSTEDALRDALDQAQQVEKLMEAMRSCPDK  
AQTIGNSGSANGIHQQDKAQKQEDKH

>sp|P49760|CLK2\_HUMAN Dual specificity protein kinase CLK2 OS=Homo sapiens GN=CLK2 PE=1 SV=1

MPHPRRYHSSERGRSGSYREHYRSRKHKRRRSRSWSSSSDRTRRRRRREDSYHVRSSSYD  
DRSSDRRVYDRRYCGSYRRNDYSRDRGDAYYDIDYRHSYEQRENSSYRSQRSSRRKHRR  
RRRRSRTFSRSSSQHSSRAKSVEDDAEGHLIYHVGDWLQERYEIVSTLGEGTFGRVVQC  
VDHRRGGARVALKIIKNVEKYKEAARLEINVLEKINEKDPDNKNLCVQMFDWFDYHGHMC  
ISFELLGLSTFDLKDNNYLPYPIHQVRHMAFQLCQAVKFLHDNKLTHDLKPENILFVN  
SDYELTYNLEKKRDESVKSTAVRVVDFGSATFDHEHHSTIVSTRHYRAPEVILELGSQ  
PCDVWSIGCIIIEFYVGFTLFQTHDNREHLAMMERILGPIPSRMIRKTRKQKYFYRGRLD  
WDENTSAGRYVRENCKPLRRYLTSAAEEHHQLFDLIESMLEYEPAKRLTLGEALQHPFFA  
RLRAEPPNKLWDSSRDISR

>sp|Q9HAZ1|CLK4\_HUMAN Dual specificity protein kinase CLK4 OS=Homo sapiens GN=CLK4 PE=1 SV=1

MRHSKRTHCPDWDSRESWGHEYSRGSCHKRRSHSSTQENRHCKPHHQFKESDCHYLEAR  
SLNERDYRDRRYVDEYRNDYCEGYVPRHYHRDIESGYRIHCSKSSVSRSSPKRKRNRH  
CSSHQSRSKSHRRKRSRSIEDDEEGHLICQSGDVLRARYEIVDTLGEGAFGKVVECIDHG  
MDGMHVAVKIVKNVGRYREARSEIQVLEHLNSTDPNSVFRVCQMLEWFDHHGHVCIVFE  
LLGLSTYDFIKENSFLPFQIDHIRQMAYQICQSINFLHHNKLTHDLKPENILFVKSDYV  
VKYNSKMKRDERTLKNITKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGSQPCDV  
WSIGCILIEYYLGFTVFQTHDSKEHLAMMERILGPIQHMIQKTRKRYFHNNQLDWEH  
SSAGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRMLEYDPTQRITLDEALQHPFFDLLKK  
K

>sp|Q496F6|CLM2\_HUMAN CMRF35-like molecule 2 OS=Homo sapiens GN=CD300E PE=1 SV=2

MWLLPALLLLCLSGCLSLKGPSTGTAGDSLTVWCQYESMYKGYNKYWCRGQYDTSCE  
IVETKGEEKVERNGRVSIRDHPEALAFVTVMQNLNEDDAGSYWCKIQTVWVLDSWSRDPS  
DLVRVYVSPAITTPRRTTHPATPIFLVNPGRNLSTGEVLTQNSGFRLLSSPHFLLVLL  
KLPLLLSMLGAVFWVNRPWAPPGR

>sp|Q9H6B4|CLMP\_HUMAN CXADR-like membrane protein OS=Homo sapiens GN=CLMP PE=1 SV=1

MSLLLLLLLVSYVGTGLGTHTEIKRVAEEKVTLPCHHQLGLPEKDTLDIEWLLTDNEGNQ  
KVVITYSSRHVYNNLTEEQKGRVAFASNFLAGDASLQIEPLKPSDEGRYTCKVKNSGRYV  
WSHVILKVLVRPSKPKCELEGELETSGLTLQCESSSGTEPIVYVWQRIREKEGEDERLP  
PKSRIDYNHPGRVLLQNLTSYSGLYQCTAGNEAGKESCVRVTVQYVQSIGMVAGAVTG  
IVAGALLIFLLVWLLIRRKDKERYEEEEERPNEIREDAEAPKARLVKPSSSSSGSRSSRSG  
SSSTRSTANSASRSQRTLSTDAAPQPGLATQAYSLVGPEVRGSEPKVHHANLTKAETTP  
SMIPSQSRAFQTV

>sp|Q13286|CLN3\_HUMAN Battenin OS=Homo sapiens GN=CLN3 PE=1 SV=1

MGGCAGSRRRFSDEGEETVPEPRPLLDHQAHWKNAVGFWLLGLCNFSYVVMLSAAH  
DILSHKRTSGNQSHVDPGPTPIPHNSSSRFDCNSVSTAALLADILPTLVIKLLAPLGLH  
LLPYSRVLVSGICAAGSFVLVAFSHSVGTSLCGVVFASISSGLGEVTFLSLTAFYPRAV  
ISWWSSGTGGAGLLGALSGLTQAGLSPQQTLLSMLGIPALLLASFYLLLTSPQAQDPG  
GEEEAESAARQPLIRTEAPESKPGSSSSLSLRERWTVFKGLLWYIVPLVVVYFAEYFINQ  
GLFELLFFWNTSLSHAQYRWYQMLYQAGVFASRSSLRCCRIRFTWALALLQCLNLVFL  
ADVWFGFLPSIYLVFLIILYEGLLGAAYVNTFHNIALETSDEHREFAMAATCISDTLGI  
SLSGLLALPLHDFLCQLS



>sp|075175|CNOT3\_HUMAN CCR4-NOT transcription complex subunit 3 OS=Homo sapiens GN=CNOT3  
PE=1 SV=1

MADKRKLQGEIDRCLKVSEGVEQFEDIWQKLHNAANANQKEKYEADLKKEIKKLQRLRD  
QIKTWASNEIKDKRQLIDNRKLIETQMERFKVVERETKTKAYSKEGLGLAQKVDPAQKE  
KEEVGQWLTNTIDTLNMQVDQFESEVESLSVQTRKKKGDKDKQDRIEGLKRHIEKHRYHV  
RMLETILRMLDNDLSILVDAIRKIKDDVEYYVDSSQDPDFEENEFLYDDLDLEDIPQALVA  
TSPPSHSHMEDEIFNQSSSTPTSTSSSPIPPSPANCTTENSEDDKKRGRSTDSEVSQSP  
AKNGSKPVHSNQHPQSPAVPPTYPSGPPPAASALSTTPGNGVPAPAAPPSALGPKASPA  
PSHNSGTPAPYAQAVAPPAPSGPSTTQPRPPSVQPSGGGGGGSGGGSSSSSSNSSAGGGA  
GKQNGATSYSSVADSPAVALSSSGGNNASSQALGPPSGPHNPPSTSKEPSAAAPTGA  
GGVAPGSGNNSGGPSLLVPLPVNPSSPTPSFSDAKAAGALLNGPPQFSTAPEIKAPEPL  
SSLKMAERAAISSGIEDPVPTLHLTERDIILSSTSAPPASAPPLQLSEVNIPLSLGVC  
PLGPVPLTKEQLYQQAMEEAAWHMPHPSDSERIRQYLPRNPCPTPPYHHQMPPPHSDTV  
EFYQRLSTETLFFIFYYLEGTKAQYLAALKKKQSWRFHTKYMWWFQRHEEPKTIITDEFE  
QGTYYIFDYEKWQKKKEGFTFEYRYLEDRLQ

>sp|Q9ULM6|CNOT6\_HUMAN CCR4-NOT transcription complex subunit 6 OS=Homo sapiens GN=CNOT6  
PE=1 SV=2

MPKEKYEPDPRRMYTIMSSEEAANGKKSHWAELEISGKVRSLASLWSLTHLTALHLSLSD  
NSLSRIPSDIAKHLNLVYLDLSSNKIRSLPAELGNMVSLRELHLNNLLRVLPFELGKLF  
QLQTLGLKGNPLTQDILNLYQEPDGTRRLLNYLLDNLSGTAKRITTEQPPRSWIMLQEP  
DRTRPTALFSVMCYNVLC DKYATRQLYGYCPSWALNWDYRKKAIIQEILSCNADIVSLQE  
VETEQYYSFFLVELKERGYNGFFSPKSRARTMSEQERKHVDGCAIFFKTEKFTLVQKHTV  
EFNQLAMANSEGSEAMLNRVMTKDNI GAVLLELRKESIEMPSGKPHLGTEKQLILVANA  
HMHWDPEYSDVKLVQTMFLSEVKNIIDKASRNKSSVLGEFGTIPLVLCADLNSLPDSG  
VVEYLSTGGVETNHKDFKELRYNESLTNFSCHGKNGTTNGRITHGFKLSAYESGLMPYT  
NYTFDFKGIIDYIFYSKPQLNTLGILGPLDHHWLVENNISGCPHPLIPSDHFSLFAQLEL  
LLPFLPQVNGIHLPGRR

>sp|P34972|CNR2\_HUMAN Cannabinoid receptor 2 OS=Homo sapiens GN=CNR2 PE=1 SV=1

MEECWVTEIANGSKDGLDSNPMKDYMILSGPQKTAVAVLCTLLGLLSALENAVLYLILS  
SHQLRRKPSYLFIGSLAGADFLASVVFACSFVNFHVHFGVDSKAVFLKIGSVTMTFTAS  
VGSLLLTAIDRYLCLRYPPSYKALLTRGRALVTLGIMWVLSALVSYLPLMGWTCPCPCS  
ELFPLIPNDYLLSWLLFIAFLFSGIIYTYGHVLWKAHQHVASLSGHQDRQVPGMARMRLD  
VRLAKTLGLVLAVLLICWFPVLALMAHSLATLSDQVKKAFAFCSMLCLINSMVNPVIYA  
LRSGEIRSSAHHCLAHWKKCVRLGSEAKEEAPRSSVTETeadGKITPWPDSRDLDLSDC

>sp|Q9H2U6|C0005\_HUMAN Putative uncharacterized protein encoded by LINC00597 OS=Homo  
sapiens GN=LINC00597 PE=5 SV=1

MLKNRELLKIFEQASHMMKLIIEHCICDCIWM EWEDLEAKTLDRRPPEQTRRERCSCGNG  
KRWAKPKITTEKKNHPDFMIDWMYFETPLSIQMK

>sp|Q8N8G6|C0054\_HUMAN Putative uncharacterized protein C15orf54 OS=Homo sapiens  
GN=C15orf54 PE=2 SV=1

MEVKFITGKHGRRPQRAEPQRICRALWLTWPWSLILKLSWIIILSNLFLHLRATHHMT  
LPLRFLYIALSEMTFREQTSHQIIQQMSLSNKLEQNQLYGEVINKETDNPVISSGLTLLF  
AQKPQSPGWKNMSSTKRVCITLADSCRAQAHAADRGERGHFVQILHHFIEVFNVMAVRS  
NPF

>sp|A8K5M9|C0062\_HUMAN Uncharacterized protein C15orf62, mitochondrial OS=Homo sapiens  
GN=C15orf62 PE=2 SV=1

METWRKGSFRNASFFKQLSLGRPRRLRRQSSVLSQASTAGGDHEEYSNREVIRELQGRPD  
GRRLPLWGDEQPRATLLAPPKPPRLYRESSSCPNILEPPPAYTAAYSATLPSALSLSSAL  
HQHSEKGLVDTPCFQRTPTPDLSDPFLSFKVDLGISLLEEVLQMLREQFPSEPSF

>sp|P25940|C05A3\_HUMAN Collagen alpha-3(V) chain OS=Homo sapiens GN=COL5A3 PE=1 SV=3

MGNRRDLGQPRAGLCLLAALQLLPQTQADPVDVLKALGVQGGQAGVPEGPFGCPQRTPE  
GDRAFRIGQASTLGIPTWELFPEGHFENFSLITLRGQPANQSVLLSIYDERGARQLGL  
ALGPALGLLGDPFRPLPQQVNLTDGRWHRVAVSIDGEMVTLVADCEAQPVLGHGPRFIS  
IAGLTVLGTQDLGEKTFEGDIQELLI SPDPQAAFQACERYLPDCDNLAPAATVAPQGEPE  
TPRPRRKGGKGRKKGRGRKGGKGRKKKEIWTSSPPPSAENQTSTDIPKTETPAPNLPP  
TPTPLVVTSTVTTGLNATILERSLDPDSGTELGTLETKAAREDEEGDDSTMGPDFRAAEY  
PSRTQFQIFPGAGEKGAKGEPVIEKGQQFEGPPGAPGPQGVVGPSPGPPGPPGPGDGP  
PGPAGLPGIPGIDGIRGPPGTVIMPFQFAGGSFKGPPVSFQQAQAVLQQTQLSMKGP  
PGPVGLTGRPGVGLPGHPGLKGEEAGEPQGPRGLQPHGPPGRVGMGRPGADGARGL  
PGDTGPKGDRGFDGLPLPGEKGQRGDFGHVGQPGPPGEDGERGAEGPPGPTGQAGEPGP  
RGLLGRGSPGPTGRPGVTGIDGAPGAKGNVGPPGEPGPPGQQGNHGSQGLPGPQGLIGT  
PGEKGPPGNPGIPGLPGSDGPLGHPGHEGPTGEKGAQPPGSAGPPGYGPRGVKGTSGN  
RGLQGEKGEKGEDGFPFGKGDVGLKGDQKPGAPGPRGEDGPEGKQAGQAGEEGPPGS  
AGEKGKLGVPGLPGYPGRPGPKGSIGFPGPLGPIGEKGKSGKTGQPGLEGERGPPGSRGE  
RGQPGATGQPGPKGDVGQDGAPGIPGEKGLPGLQGPPGFPKGPBGHKGKDGPRGHPGQ  
RGELGFQGGTGPYPGAGVLGPQKGTGEVGPLGERGPPGPPGPPGEQGLPGLEGREGAKGE  
LGPPGPLGKEGPAGLRGFPKGGPGDGPPTGLKGDKGGPPVPGANGSPGERGPLGPAGG  
IGLPGQSGSEGPVGPAGKKSRGERGPPGPTGKDGIPLGLPLGPPGAAGPSGEEGDKGD  
VGAPGHKSGKGDGDAGPPGQPGIRGPAGHPGPPGADGAQGRRGPPGLFGQKGGDGVGRGF  
VGVIGPPGLQGLPGPPGEKGEVGDVGSMPHGAPGPRGPQGPTGSEGTPLPGGVGQPGA  
VGEKGERGDAGDPPGAPGIPGPKGDIGEKDSGPSGAAGPPGKKGPPGEDGAKGSVGP  
TGLPGDLGPPGDPGVSGIDGSPGEKGDGPDVGGPPGASGEPGAPGPPGKRGPSGHMGR  
EGREGEKAKGEPGDPGPPGRTGPMGARGPPGRVGPGLRGIPGPVGEPLGAPGQMGP  
PGPLGPSGLPGLKGDTPKGEKGHIGLIGLIGPPGEAGEKGDQGLPGVQGGPPGKGDGPG  
PGPIGSLGHPGPPGVAGPLGQKSGKSGPSGSMGPRGDTGPAGPPGPPGAPAEHLHGLRRRRR  
FVPVPLPVVEGGLEEVLASLTLSLELEQLRRPPGTAERPGLVCHELHRNHPHLPDGEYW  
IDPNQGCARDSFRVFCNFTAGGETCLYPDKKFEIVKLASWSKEKPGGWYSTFRRGKKFSY  
VDADGSPVNVVQLNFLKLLSATARQNFTYSCQNAAAWLDEATGDYSHSARFLGTNGEELS  
FNQTTAATVSVPPQDGCRLRKGGTKTLFEFSSSRAGFLPLWDVAATDFGQTNQKFGFELGP  
VCFSS

>sp|P10643|C07\_HUMAN Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

MKVISLFLVGFIGEFQSFSSASSPVNCQWDFYAPWSECNGCTKTQTRRRSVAVYGGYGG  
QPCVGNAFETQSCEPTRGCPTEEGCGERFRCFSGQCISKSLVCNGDSDCEDSAEDRCE  
DSERRPSCDIDKPPPNIELTGNGYNELTGQFRNRVINTKSFGGQCRKVFSGDGKDFYRLS  
GNVLSYTFQVKINNDFNYEFYNSTWSYVKHTSTEHTSSSRKRSFFRSSSSSSRSYTSHTN  
EIHKGKSYQLLVVENTVEVAQFINNNPEFLQLAEPFWKELSHLPSLYDYSAYRRLIDQYG  
THYLQSGSLGGEYRVLFYVDSEKLKQNDFNSVEEKKCKSSGWHFVVKFSSHGCKELENAL  
KAASGTQNNVLRGEPFIRGGGAGFISGLSYLELDNPAGNKRRYSAWAESVTNLPQVIKQK

LTPLYELVKEVPCASVKKLYLKWALEEYLDEFDPCHCRPCQNGGLATVEGTHCLCHCKPY  
TFGAACEQGVLVGNQAGGVDGGWSCWSSWSPCVQGKKTRSRECNPPPSGGGRSCVGETT  
ESTQCEDEEHLRLLEPHCFPLSLVPTEFCPSPPALKDGFVQDEGTMFPVGKNVVYTCN  
EGYSLIGNPVARCGEDLRWLVGEMHCQKIACVLPVLMGDIQSHPPQPFYTVGEKVTVSCS  
GGMSLEGPSAFLCGSSLKWSPEMKNARCVQKENPLTQAVPKCQRWEKLQNSRCVCKMPYE  
CGPSLDVCAQDERSKRILPLTVCKMHVLCQGRNYTLTGRDSCTLPASAEKACGACPLWG  
KCDAESKCVCREASECEEEGFSICVEVNGKEQTMSECEAGALRCRGQSISVTSIRPCAA  
ETQ

>sp|P27658|C08A1\_HUMAN Collagen alpha-1(VIII) chain OS=Homo sapiens GN=COL8A1 PE=1 SV=2

MAVLPGPLQLLGVLTTISLSSIRLIQAGAYYGIKPLPPQIPPQMPPQIPQYQPLGQQVPH  
MPLAKDGLAMGKEMPHLQYQKEYPHLPQYMKEIQAPAPRMGKEAVPKKGKEIPLASLRGEQ  
GPRGEPGRGPPPPGLPGHGIPGIKKGPGPGQYPGVGKPGMPGMPGKPGAMGMPGAKGE  
IGQKGEIGPMGIPGPQGPFGHGLPGIGKPGGPGPLPGQPGPKGDRGPKGLPGPQGLRGPK  
GDKGFGMPGAPGVKPGPPGMHGGPPGVGLPGVGKPGVTGFPGPQGPLGKPGAPGEPGPQGP  
IGVPGVQGPPIPGIGKPGQDIPGQPGFPGGKGEQGLPGLPGPPGLPGIGKPGFPGPKG  
DRGMGGVPGALGRGEKGPIGAPGIGPPGEPGLPGIPGMPGPPGAIGFPGPKGEGGIVG  
PQGPFGPKGEPGLQGFPGKPGFLGEVGGPMRGLPGPIGPKGEAGQKGVPLPGVPGLLG  
PKGEPGIPGDQLQGPPIPGIGGSGPIGPPGIPGPKGEPGLPGPPGFPPIGKPGVAGL  
HGPPGKPGALGPQQGPGLPGPPGPPGPPPAVMPPTPPPQGEYLPDMGLGIDGVKPPHA  
YGAKKGKNGGPAYEMPAFTAELTAPFPPVGAPVKFNKLLYNGRQYNPQTGIFTCEVPGV  
YYFAYHVHCKGGNVVVALFKNNEPVMTYDEYKKGFLDQASGSVALLLRPGDRVFLQMPS  
EQAAGLYAGQYVHSSFSGYLLYPM

>sp|P07358|C08B\_HUMAN Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3

MKNSRTWAWRAPVELFLLCAALGCLSLPGSRGERPHSFGSNAVNKSFAKSRQMRSDVTL  
MPIDCELSWSSWTTCDPCQKKRYRYAYLLQPSQFHGEPCNFSDKEVEDCVTNRPCRSQV  
RCEGFVCAQTGRVCNRRLLCNGDNDCGDQSDCANCRRIYKKCQHMDQYWGIGSLASGIN  
LFTNSFEGPVLDRHYAGGCSPHYILNTRFRKPYNVESTPQTQGKYEFILKEYESYSD  
ERNVTEKMASKSGFSFGFKIPGIFELGISSQSDRGKHYIRRTKFSHTKSVFLHARS  
DLVAHYKLKPRSLMLHYEFLQVRKRLPLEYSYGEYRDLFRDFGTHYITEAVLGGIYEYTLVM  
NKEAMERGDTLNNVHACAKNDFKIGGAIEEVYVSLGVSVGKCRGILNEIKDRNKRDTMV  
EDLVVLVRGGASEHITTLAYQELPTADLMQEWGDAVQYNPAIIKVKVEPLYELVTATDFA  
YSSTVRQNMKQALEEFQKEVSSCHCAPCQGNQVPLKGSRCDCICPVGSGQLACEVSYRK  
NTPIDGKWNCSNWSSCSGRRKTRQRQCNNPPQNGGSPCSGPASETLD

>sp|P02748|C09\_HUMAN Complement component C9 OS=Homo sapiens GN=C9 PE=1 SV=2

MSACRSFAVAICILEISILTAQYTTSDPELTSSGSASHIDCRMSPWSEWSQCDPCLRQ  
MFRSRSIEVFGQFNGKRCTDAVGDRRQCVPTPCEDAEDDCGNDQCSTGRCIKMRLRCN  
GDNDCGDFSDEDDCESEPRPPCRDRVVEESELARTAGYGINILGMDPLSTPFDNEFYNG  
LCNRDRDGNLTYYRRPWNVASLIYETKGEKNFRTEHYEEQIEAFKSIIEKTSNFNAIS  
LKFTPTETNKAQCCEETASSISLHGKGSFRFSYSKNETYQLFLSYSSKKEKMFLHVKG  
EIHGRFVMNRNDVLTTFVDDIKALPTTYEKGEYFAFLETYGYTHYSSGSLGGLYELIY  
VLDKASMKRKGVELKDIKRLGYHLDVSLAFSEISVGAEFNKDDCVKRGEGRAVNITSEN  
LIDDVVSLIRGGTRKYAFELKEKLLRGTVIDVTDVFNWASSINDAPVLISQKLSPIYNLV  
PVKMKNAHLKKQNLERAIEDYINEFSVRKCHTCQNGGTVILMDGKCLCACPFKFEGIA  
CEISKQKISEGLPALEFPNEK

>sp|Q9GZY4|COA1\_HUMAN Cytochrome c oxidase assembly factor 1 homolog OS=Homo sapiens  
GN=COA1 PE=1 SV=1

MMWQKYAGSRSMPLGARILFHGVFYAGGFAIVYYLIQKFHSRALYYKLAVEQLQSHPEA  
QEALGPPLNIHYLKLIDRENFVDIVDAKLKIPVSGSKSEGLLYVHSSRGGPFQRWHLDEV  
FLELKDGQQIPVFKLSGENGDEVKKE

>sp|O96005|CLPT1\_HUMAN Cleft lip and palate transmembrane protein 1 OS=Homo sapiens  
GN=CLPTM1 PE=1 SV=1

MAAAQEADGARSAVVAAGGSSGQVTSNGSIGRDPPEAQPNPPAQAPNAWQVIKGV  
FRIFIIWAISWFRGPAPQDQAGPGGAPRVASRNLFPKDTLMNLHVYISEHEHFTDFNA  
TSALFWEQHDLVYGDWTSGENSDGCYEHFAELDIPQSVQQNGSIYIHVYFTKSGFHPDPR  
QKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKRAEDYGPVEVISHWHP  
NITINIVDDHTPWVWKGSVPPPLDQYVKFDAVSGDYPIIYFNDYWNLQKDYYPINESLAS  
LPLRVSFCLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALT  
IIVSIVHSVFELAFKNDIQFWSNRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQ  
VSVFIGVLIDLWKITKVMVDRLDREHRVAGIFPRLSFKDKSTYIESSTKVYDDMAFRYLS  
WILFPLLCYAVYSLLYLEHKGWYSWVLSMLYGFLTFGFTMTPLQFIFYKLKSAHLP  
WRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVFIIYLYQRWIYRVDPTRVNEFGM  
SGEDPTAAAPVAEVPAAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPP  
KPAEDKKKD

>sp|Q9HAW4|CLSPN\_HUMAN Claspin OS=Homo sapiens GN=CLSPN PE=1 SV=3

MTGEVGSEVHLEINDPNVISQEEADSPSDSGQGSYETIGPLSEGSDEEIFVSKKLNRK  
VLQSDSETEDTNASPEKTTYDSAEENKENLYAGKNTKIKRIYKTVADSDESYMEKSLY  
QENLEAQVKPCLELSLQSGNSTDFTDRKSSKKHIHDKETAGKAKVKSKRRLEKEERKM  
EKIRQLKKKETKNQEDDVEQPFNDSGCLLVDKDLFETGLEDENNSPLEDEESLESIRAAV  
KNKVKKHKKKEPSLESGVHSFEEGSELSKGTTTRKERKAARLSKEALKQLHSETQRLIRES  
ALNLPYHMPENKTIHDFFRKRPRTCHGNAMALLKSSKYSSSHKEIIDTANTTEMNSDH  
HSGGSEQTGAENEVETNALPVVSKETQIIITGSDESCRKDLVKNEELEIQEKQKQSDIRP  
SPGDSSVLQQESNFLGNHSEECQVGGVAFEPHALEGEQPQNPEETDEKVEEPEQQNKS  
SAVGPEKVRRTLDRLKQLGVDVSIKPRLGADEDSFVILEPETNRELEALKQRFWKHAN  
PAAKPRAGQTVNVNIVKDMGTGKEELKADVVPVTLAPKKLDGASHTKPGKQLQVLKAK  
LQEAMKLRREERQKRQALFKLDNEDGFEDEEEEEEMTDESEEDGEEKVEKEEEEELE  
EEEEEEEEEEEGNQETAFLSSEEIETKDEKEMDKENNDGSSEIGKAVGFLSVPKSL  
SDSTLLLFKDSKKMGYFPTEEKSETDENSQKPSKLEDDSCSLTKESSHNSSFELIG  
STIPSYQPCNRQTGRGTSFFPTAGGFRSPSPGLFRASLVSSASKSSGKLSEPSLPEDSQ  
DLYNASPEPKTLFLGAGDFQFCLEDDTQSQLLDADGFLNVRNHRNQYQALPRLPLASMD  
ENAMDANMDELLDLCTGKFTSQAEKHLPRKSDKKENMEELNLCSGKFTSQDASTPASSE  
LNKQKESSMGDPMEALALCSGSFPTDKEEEDDEEFGDFRLVSNDFSDDEDEHSDS  
GNDLALEDHEDDDEEELLKRSEKLKRQMLRKYLEDEAEVSGSDVGSEDEYDGEEIDEYE  
EDVIDEVLPSDEELQSQIKKIHMTMLDDDKRQLRLYQERYLADGDLHSDGPGMRKFRW  
KNIDDASQMDLHRSDDDQTEEQLEDESEARWRKERIEREQWLRDMAQQGKITAEDEEEI  
GEDSQFMILAKKVTAKALQKNASRPMVIQESKSLRNPFPAIRPGSAQQVKTGSLNQP  
AVLQKLAALS DHNPSAPRNSRNFVHTLSPVKAEEAKESSKSVKKRGPSPMTSPSPKHL  
KTDDSTSGLTRSIFKYLE

>sp|Q15846|CLUL1\_HUMAN Clusterin-like protein 1 OS=Homo sapiens GN=CLUL1 PE=2 SV=1

MKPPLLVIIVCLLWLKDSHCAPTWKDKTAISENLKSFSEVGEIDADEEVKKALTGIKQMK  
IMMERKEKEHTNLMSTLKKCREEKQEALKLLNEVQEHLLEEEERLCRESLADSWGECRSCL  
ENNCMRIYTTCQPSWSSSVKNKIERFFRKIYQFLFPFHEDNEKDLPISEKLIEDAQLTQM  
EDVFSQLTVDVNSLNFNSFNVFRQMQQEFDQTFQSHFISDTDLTEPYFFPAFSKEPMTKA  
DLEQCWDIPNFFQLFCNFSVSIYESVSETITKMLKAIEDLPKQDKAPDHGGLISKMLPGQ  
DRGLCGELDQNL SRCFKFHEKCQKCAHLSEDCPDVPALHTELDEAIRLVNVSNNQYGGI  
LQMTRKHLED TAYLVEKMRGQFGWVSELANQAPETEIIFNSIQVVPRIHEGNISKQDETM  
MTDLSILPSSNFTLKIPLEESAESSNFIGYVVAKALQHFKEHFKTW

>sp|Q96NS8|CLUP3\_HUMAN Putative protein CLUHP3 OS=Homo sapiens GN=CLUHP3 PE=5 SV=1

MFLNGNCLET LKKKEPEGRRRLSHPGNMGWMRPSQETTPDRSHHSGFGLFCGDPGPEI  
EPFSLWVFPQEMVLEIHLQFMDEYPCHHITSHCTWVAHWTTSSQSCAAWQGCRRACCST  
WWKSPAQCTRPTVMSATFETAQEPGPS

>sp|Q8IVM7|CMO29\_HUMAN Putative uncharacterized protein encoded by LINC00346 OS=Homo sapiens GN=LINC00346 PE=5 SV=1

MRPQPRGSGRKENTGEEREGRERYHAISADGERRLPQGTAVLTRHVSFLFGGREAEHH  
VMETDRVEGARDGDKRKEVCFVPIQGSFCFMRLTCARLVAALDIHGLSFSRLFCGSRDTK  
HEDITGREGQVTPLPRGTPQLCTARVGLSSPRTRGQGVPI SCKT

>sp|Q86SX3|CN080\_HUMAN Uncharacterized protein C14orf80 OS=Homo sapiens GN=C14orf80 PE=2 SV=2

MGRRRQRVDPAAGARAGALPEAIAALSRLPSGPSPEIFRRAKFDRPEATSALWQLLFRV  
LSPLPAGNALASLAEVQARLVKSALCSQGYPRALALQLPEDGSQGSRELLALSWLLAR  
GPVPEQMLAQARVPLGDEMTVCQCEALASPGPPAPHMEAEGPVDVRHVQWLMGKLRFWR  
QLVSSQQEQCALLSKIHLYTRGCHSDQSLSHLSVTEAEMLRDPEGGQQVSGAGAAQNLDL  
AYPKCLHSFCTPGMGPRTFWNDLWLVCQPGLLPGDWAAPLDPGGASACSLSPFRALLR  
TLERENQRLEAVLAWRRSELVFWRWMDTVLGTCAPEVPAAASQPTFLPWVPERGGGELDL  
VVRELQALEEELREAAERRRAWEAKAGCGRGPEWSAARRASREAVEKELGALQQCWER  
DGGPAQPHGPHRLVRREDGAAGDRDLRAAVVIRTLRSQEACLEAVLRLQGQCRQELARL  
VGARPGLIWIPPPGR

>sp|Q9NVL8|CN105\_HUMAN Uncharacterized protein C14orf105 OS=Homo sapiens GN=C14orf105 PE=2 SV=2

MGLSHSKTHLRVIKVAPLQNKEVETPSAGRVDFAFNQNL EEKTSYSLARLQDQNKALEGQ  
LPPLQENWYGRYSTASRDYFDIPLEHRETSIIKRHPQRLQKLEPIDLPRVITSGRLLS  
QREARTMHKAKQVLEKKMQTPMYTSENRYLHKMQVLEMIRKRQEAQMEKKSLHGEARI  
NKQSPRDHKAKKTLQSTPRNDHDLLTMLPDEILNRGPGNSKNT EFLKHQAVNNYCPWKI  
GKMETWLHEQEAQGQLLWDSSSDSDEQGKDEKKPRALVRTRTERIPLFDEFFDQE

>sp|Q9NWQ9|CN119\_HUMAN Uncharacterized protein C14orf119 OS=Homo sapiens GN=C14orf119 PE=1 SV=1

MPLESSSSMPLSFPSLLPSVPHNTNPSPLMSYITSQEMKCILHWFANWSGPQRERFLED  
LVAKAVPEKLQPLDSLEQLSVSGADRPPSIFECQLHLWDQWFRGWAEQERNEFVRQLEF  
SEPDFVAKFYQAVAATAGKD

>sp|O95628|CNOT4\_HUMAN CCR4-NOT transcription complex subunit 4 OS=Homo sapiens GN=CNOT4 PE=1 SV=3

MSRSPDAKEDPVECPLCMEPLEIDDINFFPCTCGYQICRFCWHRI RTDENG LCPACRKPY  
PEDPAVYKPLSQEELQRIKNEKKQKQNERKQKISENRKHLASVRVQKNLVFVVGLSQRL

ADPEVLKRPEYFGKFGKIHKVVINNSTSYAGSQGPSASAYVTYIRSEDALRAIQCVNNVV  
VDGRTLKASLGTTKYCSYFLKNMQCPKPCMYLHELGDAAASFTKEEMQAGKHQEQKL  
LQELYKLNPNFLQLSTGSDKNKNKVTPLQRYDTPIDKPSDSLISNGDNSQQISNSDTP  
SPPPGLSKSNPVIPISSNHSARSPFEGAVTESQSLFSDNFRHPNPIPSGLPPFPSSPQT  
SSDWPTAPEPQSLFTSETIPVSSSTDWQAAFQFGSSKQPEDDLGDFDPDVTRKALADLIE  
KELSVQDQPSLSPTSLQNSSSHTTTAKGPGSGFLHPAAATNANSLNSTFSVLPQRFPPQFQ  
QHRAVYNSFSFPGQAARYPWMAFPRNSIMHLNHTANPTSNSNFLDLNLPQHNTGLGGIP  
VAGEEEVKVSTMPLSTSSSHSLQGGQOPTSLHTTVA

>sp|Q8N129|CNPY4\_HUMAN Protein canopy homolog 4 OS=Homo sapiens GN=CNPY4 PE=2 SV=1

MGPVRLGILLFLFLAVHEAWAGMLKEEDDDTERLPSKCEVCKLLSTELQAELSRTGRSRE  
VLELGQVLDTGKRKRHPYVSSETRLEEALNLCERILDYSVHAERKGSRLYAKGQSQT  
ATLKGLVQKGKVDLGLPLELWDEPSVEVTYLLKKCETMLEEFEDIVGDWYFHHQEQPLQ  
NFLCEGHVLPAAETACLQETWTGKEITDGEEKTEGEEQEEEEEEEEEGGDKMTKTGSH  
PKLDREDL

>sp|Q8N815|CNTD1\_HUMAN Cyclin N-terminal domain-containing protein 1 OS=Homo sapiens  
GN=CNTD1 PE=2 SV=2

MDGPMRPRSASLVDFQFGVVATETIEDALLHLAQNEQAVREASGRLGRFREPQIVEFVF  
LLSEQWCLEKSVSYQAVEILERFMVKQAENICRQATIQPRDNKRESQNWALKQQLVNKF  
TLRLVSCVQLASKLSFRNKIISNITVLNFLQALGYLHTKEELLESELDVLKSLNFRINLP  
TPLAYVETLLEVLGYNGCLVPAMRLHATCLTLLDLVYLLHEPIYESLLRASIENSTPSQL  
QGEKFTSVKEDFMLLAVGIIAASAFIQNHECWSQVVGHLQSITGIALASIAEFSYAILTH  
GVGANTPGRQQSIPPHLAARALKTVASSNT

>sp|Q6ZRI6|C0039\_HUMAN Uncharacterized protein C15orf39 OS=Homo sapiens GN=C15orf39 PE=1  
SV=3

MAEKRPLRTLGPVMYGKLPRLETDSGLEHSLPHSVGNQDPCTYKGSYFSCPMAGTPKAES  
EQLASWTPYPPLYSTGMAGPPLQADNLLTNCLFYRSPAEGPEKMQDSSPVELLPFSPQAH  
SYPGPPLAAPKPVYRNPLCYGLSTCLGEGAVKRPLDVDWTLATGPLLPADPPCSLAPAP  
SKGQTLDGTFLRGVPAEGSSKSSGFSFPCQPFLEKYQTIHSTGFLASRYTGYPYPRNSKQ  
AMSEGPSSPWTQLAQPLGPPCQDTGPTHYPPPHHPPHPPQALPCPPACRHPEKQGSYSP  
ALPLQLGGHKGTYQAGGLGSPYLRQAAQAPYIPPLGLDAYPYPSAPLPAPSPGLKLE  
PPLTPRCPLDFAPQTLSPFYARDDLSLYGASPLGGTTPSQNNVRAVPQPGAFQRACQPL  
PASQPCSEPVRAQEAEEKTWLPSCKEKLQPRLSEHSGPPIVIRDSPVPCTPPALPPCA  
RECQSLPQKEGARPPSSPMPVIDNVFSLAPYRDYLDVPAPEATTEPDSATAEPDSAPAT  
SEGQDKGCRGTLPQAEQPSGSKPLRGLSKEEVALDLSVRKPTAEASPVKASRSVEHAKPT  
AAMDVPDVGNMVSPLPGLKKIDTEAPGLPGVPVTTDAMPRTNFHSSVAFMFRKFKILRPA  
PLPAAVVPSTPTSAPAPTQPAPTPTSGPIGLRILAQQPLSVTCFSLALPSPPAVAVASPA  
PAPAPSPAPARAQAPASARDPAPAPAPVAGPAPASTSAPGDSLEQHFTGLHASLCDAISG  
SVAHSPPEKLREWLETAGPWGQAAWQDCQGVQGLLAKLLSQLQRFDRTHRCPPHVVVRAG  
AIFVPIHLVKERLFPRLPPASVDHVLQEHVELRPTTLSEERALRELALPGCTSRMLKLL  
ALRQLPDIYPDLLGLQWRDCVRRQLGDFDTEAGAVSSSEPTVARGEPESLALAQKSPAPK  
VRKPGRKPPTPGPEKAEAAAGEESCGASPTPATSSAPPGPTLKARFRSLLETAWLNLAL  
PTWGHKSSRPDQSPPCPQLLDSQSHHL

>sp|Q8N910|C0056\_HUMAN Putative uncharacterized protein C15orf56 OS=Homo sapiens  
GN=C15orf56 PE=2 SV=1

MPRAGRAPAEGGPAPGTRSSRCLRPRLAWRRLVPNFGAWAPRKGAARVGRPVLSPRTSG  
AAGEPTCGAGSPGTLEEGVASGRTRRRRTQSAGEVAKCRWGLGQEPLCPRGAVLLNSFSPP  
AWPQFPALRLRALAWPQPRGPACGSTAQWPPRGDPTWRIS

>sp|H3BRN8|C0065\_HUMAN Uncharacterized protein C15orf65 OS=Homo sapiens GN=C15orf65 PE=2  
SV=1

MTDRNRDKKSTSPSNSDTEMKSEQLPPCVNPGNPVFCMLDPKTLQTATSLSKPQMIMYK  
TNSSHYGEFLPIPQFFPCNYTPKEQVFSSHIRATGFYQNNLNTAPDRTRTLDFPNIQHT  
L

>sp|P08572|C04A2\_HUMAN Collagen alpha-2(IV) chain OS=Homo sapiens GN=COL4A2 PE=1 SV=4

MGRDQRAVAGPALRRWLLGLTGTVTGFLAQSVLAGVKKFDVPCGGRDCSGGCQCYPEKGGR  
GQPGVPGPQGYNGPPGLQGFPGLQGRKGDKGERGAPGVTGPKGDVGARGVSGFPGADGIP  
GHPPGQGGPRGRPGYDGCNGTQGDSGPQGGPSEGFTGPPGPQGPKGQKGEYPALPKEERD  
RYRGEPGEPGLVGFQGGPPGRPGHVGMGPVGAPGRPGPPGPPGPKGQQGNRGLGFYGVKG  
EKGDVGQPGPNGIPSDTLHPHIIAPTGVTFHPDQYKGEKGSEGEPIRGISLKGEEGIMGF  
PGLRGYPGLSGEKGSPGQKSGRGLDGYQGPDPGRPGKGEAGDPGPPGLPAYSPHPSLAKG  
ARGDPGFPGAQGEPSQGEPGDPGLPGPPGLSIGDGDQRRGLPGEMGPKGFIGDPGIPAL  
YGGPPGPDGKRGP GPPGLPGPPGPDGFLFGLKGAKGRAGFPGLPGSPGARGPKGWKGDA  
GECRCTEGDEAIKGLPGLPGPKGFAGINGEPGRKGDRGDPGQHGLPGFPGGLKGVPGNIGA  
PGPKGAKGDSRTITTKGERGQPGVPVPGMKGDDGSPGRDGLDGFPGLPGPPGDGIKGP  
GDPGYPGIPGTKGTPGEMGPPGLGLPGLKGQRGFPGDAGLPGPPGFLGPPGAGTPGQID  
CDTDVKRAVGGDRQEAIQPGCIGGPKGLPGLPGPPGPTGAKLGRIPGFAGADGGPGPRG  
LPGDAGREGFPGPPGFI GPRGSKGAVGLPGPDGSPGPIGLPGPDGPPGERGLPGEVLGAQ  
PGPRGDAGVPGQGLKGLPGDRGPPGFGRGSGMPGMPGLKGQPLPGPSGQPGLYGPPGL  
HGFPGAPGQEGPLGLPGIPGREGLPGDRGPDGTGAPGVGMKGLSGDRGDAGFTGEQGH  
PGSPGFKGIDGMPGTPGLKGDRGSPGMDGFQGMPLKGRPGFPGSKGEAGFFGIPGLKGL  
AGEPGFKGSRGDPGPPGPPPVILPGMKDIKGEKGDEGPMGLKGYLGAKGIQGMGPPIGLS  
GIPGLPGRPGHIKGVKGDIGVP GIPGLPGFPGVAGPPGITGFPGFISRGDKGAPGRAGL  
YGEIGATGDFGIDGDTINLPGRPLKGERGTTGIPGLKGGFGEKGTGEDIGFPGITGVTG  
VQPPGLKGQTGFPLGTGPPGSQGELGRIGLPGGKDDGWPGAPGLPGFPGLRGIRGLHG  
LPGTKGFPGSPGSDIHGDPGFPGPPGERGDPGEANTLPGPVGVPGQKGDQAPGERGPPG  
SPGLQGFPGITPPSNISGAPGDKGAPGIFGLKGYRGPPGPPGSAALPGSKGDTGNPGAPG  
TPGTKGWAGDSGPQGRPGVFGLPGEKGPRGEQGFMGNTGPTGAVGDRGPKGPKGDPGFPG  
APGTVGAPGIAGIPQKIAVQPGTVGPQRRGPPGAPGEMGPQGPPGEPGFRGAPGKAGPQ  
GRGGSVAVPGFRGDEGPIGHQGP I GQEGAPGRPGSPGLPGMPGRSVSIGYLLVKHSQTDQ  
EPMCPVGMNKLWSGYSLLYFEGQEKAHNQDLGLAGSCLARFSTMPFLYCNPGDVCYYASR  
NDKSYWLSTTAPLPMMPVAEDEIKPYISRCSVCEAPAI AIAVHSQDVSIPHCPAGWRSW  
IGYSFLMHTAAGDEGGGQSLVSPGSCLEDFRATPFIECNGGRGTCHYYANKYSFWLTTIP  
EQSFQGSPSADTLKAGLIRTHISRCQVCMKNL

>sp|Q96BR5|COA7\_HUMAN Cytochrome c oxidase assembly factor 7 OS=Homo sapiens GN=COA7 PE=1  
SV=2

MAGMVDFQDEEQVKSFLENMEVECNYHCYHEKDPDGCYRLVDYLEGIRKNFDEAAKVLKF  
NCEENQHSDSCYKLGAYYVTGKGLTQDLKAAARCFLMACEKPGKKSIAACHNVGLLAHD  
GQVNEDGQPD LGKARDYYTRACDGGYTSSCFNL SAMFLQGAPGFPKDMDLACKYSMKACD  
LGHIWACANASRM YKLDGVDKDEAKAEVLKNRAQQLHKEQQKGVQPLTFG

>sp|Q03692|COAA1\_HUMAN Collagen alpha-1(X) chain OS=Homo sapiens GN=COL10A1 PE=1 SV=2  
MLPQIPFLLLVS LNVHGVFYAERYQMPTGIKGPLNKTQFFIPYTIKSKGIAVRGEQG  
TPGPPGPAGPRGHPGPSPPGKPGYGSPLQGEPGLPGPPGPSAVGKPGVPGLPGKPGER  
GPYGPKGDVGPAGLPGRGPPGPPGIPGPAGISVPGKPGQGGPTGAPGRGFPGKEGAPG  
VPGMNGQKGEMGYGAPGRPGERGLPGPQGPTGPSGPPGVGKRGENGVPQGPGIKGDRGFP  
GEMGPIGPPGPQPPGERGPEGIGKPGAAGAPGQPGIPGTGKLPGAPGIAGPPGPPGFGK  
PGLPGLKGERGPAGLPGGPGAKGEQGPAGLPGKPGLTGPPGNMGPQGPKGIPGSHGLPGP  
KGETGPAGPAGYPGAKGERGSPGSDGKPGYPGKPGLDGPKGNPGLPGPKGDPGVGGPPGL  
PGPVGPAGAKGMPGHNGEAGPRGAPGIPGTRGPIGPPGIPGFPGSKGDPGSPGPPGAGI  
ATKGLNGPTGPPGPPGRGHSGEPLPGPPGPPGQAVMEPGFIKAGQRPSLSGTPLV  
SANQGV TGMPVSAFTVILSKAYPAIGTIPFDKILYNRQQHYDPRTGIFTCQIPGIYYFS  
YHVHVKGTHVWVGLYKNGTPVMYTYDEYTKGYLDQASGSAIIDLTENDQVWLQLPNAESN  
GLYSSEYVHSSFSGLVAPM

>sp|Q9BQW3|COE4\_HUMAN Transcription factor COE4 OS=Homo sapiens GN=EBF4 PE=2 SV=2  
MFPAQDALPRSGNLKEEPLLPAGLGSVRSWMQGAGILDASTAAQSGVGLARAHFEKQPP  
SNLRKSNNFFHFV LAMYDRQQGPVEVERTAFIDFVEKDREPGAECTNNGIHYRLRLVYNG  
LRTEQDLYVRLIDSMKQAIIEYGQDKNPEMCRVLLTHEIMCSRCCDRKSCGNRNETPSD  
PVIIDRFFLKFFLKCNQCLKNAGNPRDMRRFQVVVSTTVSDGHVLAVSDNMFVHNSK  
HGRRARRLDPSEATPCIKAISPEGGWTGGATVIVIGDNFFDGLQVVFGNVLVWSELIT  
PHAIRVQTTPRHIPGVVEVTLSYKSKQFCKGCPGRFVYTALNEPTIDYGFQRLQKVI PRH  
PGDPERLPKEVLLKRAADLAEALYGVPGSNQELLLKRAADVAEALYSTPRAPGPLAPLAP  
SHPHPAVVGINAFSSPLAIAVG DATPGPEPGYARSCSSASPRGFAPSPGSQQSGYGGGLG  
AGLGGYGAPGVAGLVPGSPSFLNGSTATSPFAIMPSSPPLAAASSMSLPAAAPTTSVFS  
FSPVNMI SAVKQRSAPVLRPPSSPPQACPRAHGEGLPDQSFEDSDKFHSPARGLQGLA  
YS

>sp|P53621|COPA\_HUMAN Coatomer subunit alpha OS=Homo sapiens GN=COPA PE=1 SV=2  
MLTKFETKSARVKGLSFHPRPWILTS LHNGVIQLWDYRMCTLIDKFDEHDGPVRGIDFH  
KQQPLFVSGGDDYIKVWNYKLRRCLFTLLGHLDYIRTTFFHHEYPWILSASDDQTIRVW  
NWQSRTCVCVLTGHNHYVMCAQHPTEDLVVSASLDQTVRVWDISGLRKKNLSPGAVESD  
VRGITGVDLFGTTDAVVKHVLEGHDRGVNWA AFHPTMPLIVSGADDRQVKIWRMNESKAW  
EVDTCRGHYNVSCAVFHPRQELILSNSEDKSIRVWDMSKRTGVQTFRRDHRFWVLA AH  
PNLNLFAAGHDGGMIVFKLERERPAYAVHG NMLHYVKDRFLRQLDFNSSKDVAVMQLRSG  
SKFPPVFNMSYNPAENAVLLCTRASNLENSTYDLYTIPKDADSQNPDAPEGKRSSGLTAVW  
VARNRFAVLDRMHSLLIKLNKNEITKKVQVPNCDEIFYAGTGNNLLRDADSITLFDVQQK  
RTLASVKISKVKYIWSADMSHVALLAKHAI VICNRKLDALCNIHENIRVKS GAWDESGV  
FIYTTSNHIKYAVTTGDHGIIRTLDLPIYVTRVKGNVYCLDRECRPRVLTIDPTEFKFK  
LALINRKYDEVLHMVRNAKLVGQSIIAYLQKKGYEVALHFVKDEKTRFSLALECGNIEI  
ALEAAKALDDKNCWEKLGEVALLQGNHQIVEMCYQRTKNFDKLSFLYLITGNLEKLRKMM  
KIAEIRKDMSGHYQNALYLGDV SERVILKNCGQKSLAYLTAATHGLDEEAESLKETFDP  
EKETIPDIDPNAKLLQPPAPIMPLDTNWPLLT VSKGFFEGT IASKGKG GALAADIDIDTV  
GTEGWGEDAELQLDEDFVEATEGLGDDALGKGQEEGGGWDVEEDLELPPELDISPGAAG  
GAEDGFFVPPTKGTSTPTQIWCNNSQLPVDHILAGSFETAMRLLHDQVGVIQFGPYKQLFL  
QTYARGRTTYQALPCLPSMYGYPNRNWKDAGLKN GVPVAVGLKLNDLIQRQLCYQLTTVG  
KFEEAVEKFRSILL SVPLLVDNKKQEI AEAQQLITICREYIVGLSVETERKKLPKETLEQ



QKRICEMAAFYTHSNLQPVHMLVLRALTALNLFFKLKNFKTAATFARRLLELGPKEVAQQ  
TRKILSACEKNPTDAYQLNYDMHNPFDICAASYRPIYRGKPVEKCPLSGACYSPEFKGQI  
CRVTTVTEIGKDVIGLRISPLQFR

>sp|Q8NI60|COQ8A\_HUMAN Atypical kinase COQ8A, mitochondrial OS=Homo sapiens GN=COQ8A PE=1 SV=1

MAAILGDTIMVAKGLVKLTQAAVETHLQHLGIGGELIMAARALQSTAVEQIGMFLGKVQG  
QDKHEEYFAENFGGPEGEFHSVPHAAGASTDFSSASAPDQSAPPSLGHAHSEGPAPAYV  
ASGPFREAGFPGQASSPLGRANGRLFANPRDSFSAMGFQRRFFHQDQSPVGGLTAEDIEK  
ARQAKARPENKQHKQTLSEHARERKVPVTRIGRLANFGGLAVGLGFGALAEVAKKSLRSE  
DPSGKKAVLGSSPFLSEANAERIVRTLCKVRGAALKLGGMLSIQDDAFINPHLAKIFERV  
RQSADFMPKQMMKTLNNDLGPNRWDKLEYFEERPFAAASIGQVHLARMKGGREVAMKIQ  
YPGVAQSINSDVNNLMAVLNMSNMLPEGLFPEHLIDVLRRELALECDYQREACARKFRD  
LLKGHPFFYVPEIVDELCSPHVLTTELVS GFPLDQAEGLSQEIRNEICYNILVLCREL  
EFHFMQTDPNWSNFFYDPQKHQVALLDFGATREYDRSFTDLYIQIIRAAADRRET  
SIEMKFLTGYEVKVMEDAHLDAILILGEAFASDEPFDFGTQSTTEKIHNLIPVMLRHRLV  
PPPEETYSLHRKMGGSFLLCSKLRKARFPCKAMFEEAYSNYCKRQAQQ

>sp|P00414|COX3\_HUMAN Cytochrome c oxidase subunit 3 OS=Homo sapiens GN=MT-CO3 PE=1 SV=2

MTHQSHAYHMKPSPWPLTGALSALLMTSGLAMWFHFSMTLLMLGLLTNTLTMYQWWRD  
VTRESTYQGHHTPPVQKGLRYGMILFITSEVFFAGFFWAFYHSSLAPTPQLGGHWPPTG  
ITPLNPLEVPLLNTSVLLASGVSITWAHSLMENNRNQMIQALLITILLGLYFTLLQASE  
YFESPTISDGIYGSTFFVATGFHGLHVIIGSTFLTICFIRQLMFHFTSKHHFGFEAAAW  
YWHFVDVWVFLYVSIYWWGS

>sp|P24311|COX7B\_HUMAN Cytochrome c oxidase subunit 7B, mitochondrial OS=Homo sapiens GN=COX7B PE=1 SV=2

MFPLVKSALNRLQVRSIQQTMARQSHQKRTPDFHDKYGNVAVLASGATFCIVTWTYVATQV  
GIEWNLSPVGRVTPKEWRNQ

>sp|Q6P387|CP046\_HUMAN Uncharacterized protein C16orf46 OS=Homo sapiens GN=C16orf46 PE=2 SV=2

MDLCQKNETDLENAENNEIQFTEETEPTYTCPDGKSEKNHVYCLLDVSDITLEQDEKAKE  
FIIGTWEEAVQGWGRTSPAACIWPRKIPKKARVGEACSDCLVCVNLSHWSLQTKPPT  
GGPEKDQSSPSQTQAAPQGPGSTASRAISDICFTYFRAEKKSLQIKEFIWCNKDWAIPGT  
NRGKASGNPSGGAHRGLSIPGPLTSRALLVLPPLKASLSNALDVLGKSKNSFLQSEEK  
LDVEKDGCVAYAYGLKTADGKGEKRASELAKHPMVNDTPSSPSPAAQISLLTDPEQRCLH  
WSLLSEKNLACPPDPNSVRYLAALQLLQKRGVQSYKSKFKAKEPRSPVITRKHVLPKAKQ  
ENRPQMLETQVFPRPVLPSLTVSRVLIIPVSTHRL

>sp|Q6ZP98|CP047\_HUMAN Putative uncharacterized protein C16orf47 OS=Homo sapiens GN=C16orf47 PE=2 SV=1

MVSSFAGIREIEKL RHKEVNKSQQGTGPGLEPRGSNSRTSATSSGTRQLHRVLRGQWLS  
SSAPVSSAEPKASHLCIQGLSSSPIHHQGPVILPVDARLSLDVSVPEQRCSSYYLGRLWP  
QKYLVSSSHVKWN

>sp|Q8IYS4|CP071\_HUMAN Uncharacterized protein C16orf71 OS=Homo sapiens GN=C16orf71 PE=2 SV=3

MASNDKGMAPSLGSPWASQMGPWDAILKAVKDQLPSLSDSPLSDYGEEELFIFQRNQTS  
LIPDLSEELAEDPADGDKSRAWVAAAESLPEPVLVPAELATEPGCRQNTRTKDASSQEG

RDGPRPFESSGEVSALLGMAEPPRWLEGDLGSLSFNTKGSQGPPWDPQAEATLSCHEGD  
PKAEPLSTASQESVNRRLRQERRKMIETDILQKVTRDACGPTSSDKGGVKEAPCHAAES  
APRSKMPLVEPEGGPPVLSLQQLAEAWDLDDILQSLAGQEDNQGNRAPGTVWWAADHRQVQ  
DRMVPSAHNRLMEQLALLCTTQSKASACARKVPADTPQDTKEADSGSRCASRKQGSQAGP  
GPQLAQGMRLNAESPTIFIDLRQMELPDHLSPESSSHSSSDSEEEEEEMAALGDAEGAS  
PSSLGLRTCTGKSQLLQQLRAFAQKGTAPPELPASKGPAGGRAQAPEDTAGSRTGRKQHKM  
LCAKGQSAQARLPRGRPRALGDVPEPGAAREALMPPLEQL

>sp|A6NNT2|CP096\_HUMAN Uncharacterized protein C16orf96 OS=Homo sapiens GN=C16orf96 PE=4  
SV=3

MSFSLTFTELANIAIPQCGVLNFKALHLLHGHILEHIHMAELKKVLSGDEDFLQTSQVVI  
MPREGDAQPILNPMKRLSNVFDHVVSRDLKLENQLALLQDLPSTAQLLEASQGTARPVQD  
LWHLIKLRKMVEGHDEVMAKSMQTLQDLLTDLHALQVTITALRKEVDMLKNMLDKVHPER  
MDIFAEDFKIQNWKMVALQREVASLQNKFKTIPKTEDMVLWSGLHDAMFTSEIGSSPLDL  
WQSVEQLPEAALAQTTKYLEATRAIQVSEPVQNPQLLQTVWHYEVPELLPEGSSAQAVSL  
SRAQEPAPPPALTPESAPGCTTEFAPGPAPGTPEVPGLELGLLEPVPALGPVPGPSVTP  
GSLPAPWPVLGPVPAPGAQPPPLGDWPALPRRWPLPQGWPVGSWPLWDLGVL RPTQPQP  
SRAPPPATEFGSLWPRPLQPYQSRQGEALQLAAVQVKGGEENDVPSLRGLRERARKDGAPK  
DRTRKDGVPKDRGGKDVPKDRAHKDDVPKDRGGKDVPKDRAHKDDVPKDRGGKDGDPK  
DRVGKDGAPKEAQPKAPQSALHRLKTTAAIAAAAAAAYAAATSSAAQAAKVAKFVKDAP  
ATKMAAIATDTAAAGPLGVFADVLGAGPSRGATESQILGDDSEIYEILSPSYSAASIGPD  
PALSQAMVATKQAMSPEDKKRAVKYSMSHIAQIPVKHDSLKEEFAQLSCNLNQRLSYLAN  
MGGPSSLGTTVDILQKKIGSLQKSRLKEEELERIWGNQIEMMKDRYITLDKAVENLQIRM  
DEFKTLQAQIKRLEMKNVKNSTMEELREKADRSALAGKASRVLETVALELNEMIQGIL  
FKVTIHEDSWKKAMEELSKDVNTKLVHSDLDPLKKEMEEVWKIVRKLLIEGLRLDPDSAA  
GFRRLFKRVKICSDRPVEMMTGPQLITIRKAHLLSRLRPASANSCEYLQRQQMREQQW  
LQLQDLGIQEDCQDQWGDGPQNATSLKCKSCNLLTLYPYGDPHVIDYDSEVDILGVDGI  
LYKGRVNSQRGAQPLAVAKELAAVKAPSPPSQSLYDRVHSSALFGAICPPLCPRSSACSA  
ASGPHLTMPARPPSLPPLLLLPLIPSLRDPQQAPGSTRLSRAPHIESRVGRKPPEEPAN  
P

>sp|P10909|CLUS\_HUMAN Clusterin OS=Homo sapiens GN=CLU PE=1 SV=1

MMKTLLLFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKEIQNAVNGVKQIKTLI  
EKTNEERKTLLSNLEEAKKKKEDALNETRESETKLKELPGVCNETMMALWEECKPCLKQT  
CMKFYARVCRSGSLVGRQLEEFLNQSSPFYFWMNGDRIDSLENDRQQTHMLDVMQDHF  
SRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFFFPKSRIVRSLMPFSPYEPLNF  
HAMFQPFLEMIHEAQQAMDIFHSPAFQHPPTFEIREGDDRTVCREIRHNSTGCLRMKD  
QCDKCREILSVDCSTNNPSQAKLRRELDSESLQVAERLTRKYNELLKSYQWKMLNTSSLLE  
QLNEQFNWVSRLANLTQGEDQYYLRVTTVASHTSDSDVPSGVTEVVVKLFSDPITVTVP  
VEVSRKNPKFMETVAEKALQEYRKKHREE

>sp|Q86U37|CN023\_HUMAN Uncharacterized protein encoded by LINC01551 OS=Homo sapiens  
GN=LINC01551 PE=2 SV=2

MELSSMKICAAIPTSRALPEVVRMRPRKRISGLEWLLQQDPGFSLVNTVKAGMIISFPSN  
NIYSSVCCQSEIFKYEFNSNKKSSWIQEERHLGKNNVLYSAHDVSPEKVTSAKKTNKQ  
TTTINNPLQYLPGSKLLDRFLSLSRLLCLNSWSSSLPLAPQVKKK

>sp|Q9BXV9|CN142\_HUMAN Uncharacterized protein C14orf142 OS=Homo sapiens GN=C14orf142  
PE=1 SV=2

MELLGEYVQGEGKPQKLRSCEAPGDGDPFQGLLSGVAQMKDMVTELDPLVQGEVQHRV  
AAPDEDLDGDEDDAEDENNIDNRTNFDGPSAKRPKTPS

>sp|Q16280|CNGA2\_HUMAN Cyclic nucleotide-gated olfactory channel OS=Homo sapiens GN=CNGA2  
PE=2 SV=2

MTEKTNGVKSSPANNHNNHAPPAIKANGKDDHRTSSRPHSAADDDTSSSELQRLADVDAPQ  
QGRSGFRRIIVRLVGIIREWANKNFREEEPRPDSFLERFRGPQLTVTTQEGDGKGDKE  
DKGTKKKFELFVLDPAGDWYYCWLFIAMPVLYNWCLLVARACFSDLQKGYLVLVLDY  
VSDVVIADLFIRLRTGFLEQGLLVKDTKKLRDNYIHTLQFKLDVASIIPDLYFAVDI  
HSPEVRFNRLLHFARMEFFDRTETRTNYPNIFRISNLVLYILVLIHWNACIYYAISKSI  
GFGVDTWVYPNITDPEYGYLAREYIYCLYWSTLTTLTIGETPPPVKDEEYLFVIFDFLIG  
VLIFATIVGNVGSMSISNMNATRAEFQAKIDAVKHYMQFRKVSKEAKVIRWFDYLWTK  
KTVDEREILKNLPAKLRAEIAINVHLSTLKKVRIFHDCEAGLLVELVLKLRPQVFSFGDY  
ICRKGDIGKEMYIKEGKLAVVADDGVTQYALLSAGSCFGEISILNIKSGKMGNNRTANI  
RSLGYSDLFCLSKDDLMEAVTEYDPAKKVLEERGRELKMEGLLDENEVATSMEDVQEK  
LGQLETNMETLYTRFGRLLAEYGAQQKLKQRITVLETMKQNNEDDYLSDGMNSPELAA  
ADEP

>sp|Q16281|CNGA3\_HUMAN Cyclic nucleotide-gated cation channel alpha-3 OS=Homo sapiens  
GN=CNGA3 PE=1 SV=2

MAKINTQYSHPSRTHLKVKTSDDLNRANGLSRAHSSSEETSSVLQPGIAMETRGLADS  
GQSFTGQGIARLSRLIFLLRRWAARHVHHQDQGPDSFPDRFRGAELKEVSSQESNAQAN  
VGSQEPADRGRSAWPLAKCNTNTSNNTSEKKTKKKDAIVVDPSSNLYRWLTAIALPVF  
YNWYLLICRACFDELQSEYMLWLVDYSADVLYVLDVLRARTGFLEQGLMVSDTNRLW  
QHYKTTTQFKLDVLSLVPDLYLKVGTNYPEVRFNRLLKFSRLFEFFDRTETRTNYPNM  
FRIGNLVLYILIIHWNACIYFAISKFIGFTDSWVYPNISIEHGRLSRKYIYSLYST  
LTTLTIGETPPPVKDEEYLFVVDFLVGLIFATIVGNVGSMSISNMNASRAEFQAKIDS  
IKYMQFRKVTKDLETRVIRWFDYLWANKTVDEKEVLKSLPDKLAEIAINVHLDLTKKV  
RIFQDCEAGLLVELVLKLRPTVFSFGDYICKKGDIGKEMYINEGKLAVVADDGVTQFVV  
LSDGSYFGEISILNIKSGKSGNNRTANIRSIGYSDLFCLSKDDLMEALTEYPEAKKALEE  
KGRQILMKDNLIDEELARAGADPKDLEEKVEQLGSSDLTLQTRFARLLAEYNATQMKMKQ  
RLSQLSQVKGKGDPLADGEVPGDATKTEKQQ

>sp|Q6PJW8|CNST\_HUMAN Consortin OS=Homo sapiens GN=CNST PE=1 SV=3

MDDSDTPTYLQIEPQDGCHPGDSVERSVTCLPSASDENENQLDGDGHEHTSSDSAMGK  
PQVSEQDSLNNNESCTLSCEVAAGENLQNTLCEASRDEQAFLGDKKIPGKRSPRSKKG  
AKKIPPLFSGDIAPLMQEKVLSAVTYAVDDEEAAEVNANEQPEAPKLVLSLFSIRGE  
VEQLDSRALPLCLHQIAESYFQEEDEYKAMKFIQLERLYHEQLLANLSAIQEQWETKWT  
VQPHVTALRNSEKGFNGEDFERLTKICATHQDPLLSKHKIAAVEKSQERKCSQLLVSE  
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>sp|Q14031|C04A6\_HUMAN Collagen alpha-6(IV) chain OS=Homo sapiens GN=COL4A6 PE=1 SV=3

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>sp|P49747|COMP\_HUMAN Cartilage oligomeric matrix protein OS=Homo sapiens GN=COMP PE=1  
SV=2

MVPDTACVLLLTLAALGASGGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQVREIT  
FLKNTVMECDACGMQSVRTGLPSVRPLLHCAPGFCFPGVACIQTESGARCGPCPAGFTG  
NGSHCTDVNECNAHPCFPRVRCINTSPGFRCEACPPGYSGPTHQGVGLAFKANKQVCTD  
INECETGQHNCVPNSVCINTRGSFQCGPCQPGFVGDAQSGCQRRARFCPDGSPSECHEH  
ADCVLERDGRSVCVAVGWAGNGLCGRDTDLGFPDEKLRCPERQCRKDNCVTPNSGQ  
EDVDRDGI GDACPDADGDGVPNEKDNCPLVRNPDQRNTDEDKWDACDNCRSQKNDDQK  
DTDQDGRGDACDDDDIDGDRIRNQADNCPRVPSNDQKSDSDGIGDACDNCQKSNPDQAD  
VDHDFVGDAACSDQDQDGDGHQSRDNCPTVPNSAQEDSDHDGQGDACDDDDNDGVPDS  
RDNCRLVPNPGQEDADR DGVGVCQDDFDADKVVDKIDVCPENA EVTLTDFRAFQTVVLD  
PEGDAQIDPNWVVLNQGREIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDDDYAGFI  
FGYQDSSSFYVVMWKQMEQTYWQANPFAVAEPGIQLKAVKSSTGPGEQLRNALWHTGDT  
ESQVRLWKDPRNVGWKDKSYRWFLQHRPQVG YIRVRFYEGPELVADSNVVLDTTMRGG  
RLGVFCFSQENIIWANLRYRCNDTIPEDYETHQLRQA

>sp|Q9P299|COPZ2\_HUMAN Coatomer subunit zeta-2 OS=Homo sapiens GN=COPZ2 PE=2 SV=1

MQRPEAWPRPHPGEAAAAQAGGPAPPARAGEPSGLRLQEPSLYTIKAVFILDNDGRRL  
AKYYDDTFPSMKEQMVFEKNVFNKTSRTESEIAFFGGMTIVYKNSIDFLYVVGSSYENE  
LMLMSVLTCLFESLNHMLRKNVEKRWLLENMDGAFLVLDEIVDGGVILESDPQQVIQKVN  
FRADDGGLTEQSVAVQLQSAKEQIKWSLLK

>sp|Q9NZJ6|COQ3\_HUMAN Ubiquinone biosynthesis O-methyltransferase, mitochondrial OS=Homo  
sapiens GN=COQ3 PE=1 SV=3

MWSGRKLGSSGGWFLRVLPGGCNTKAARPLISSAVYVKNQLSGTLQIKPGVFNEYRTIW  
FKSYRTIFSCLNRIKSFYRPWARLYSTSQT TVDSGEVKTFLALAHKWWDEQGVYAPLHSM  
NDLRVPFIRDNLLKTIPNHQPGKPLLGMKILDVCGGGLLTEPLGRLGASVIGIDPV DEN  
IKTAQCHKSFDPVLDKRIEYRVCSLEEIVEETAETFD AVVASEVVEHV IDLETFLQCCCQ  
VLKPGGSLFITTINKTQLSYALGIVFSEQIASIVPKGHTWEEKFVSPETLESILESNGLS  
VQTVVGMLYNPFGSYWHWSENSTLN YAAVKS RVQEH PASAEFVLKGETEELQANACTN  
PAVHEKLLK

>sp|Q9Y5Q5|CORIN\_HUMAN Atrial natriuretic peptide-converting enzyme OS=Homo sapiens  
GN=CORIN PE=1 SV=2

MKQSPALAPEERCRRAGSPKPVLRADDNNMGNGCSQKLATANLLRFLLLVLIPCICALVL  
LLVILLSYVGTLQKVYFKSNGSEPLVTDGEIQGSDVILTNTIYNQSTVVSTAHPDQH VPA  
WTTDASLPGDQSHRNTSACMNITHSQCQMLPYHATLTPLLSVVRNMEMEKFLKFFTYLHR  
LSCYQHIMLFGCTLAFPECIIDGDDSHGLLPCRSFCEAAKEGCESVLGMVNYSWPDFLRC  
SQFRNQTESSNVSRICFSPQQENGKQLLCGRGENFLCASGICIPGKLQCNGYND CDDWSD  
EAHCNCSENLFHCHTGKCLNYSLVCDGYDDCGDLSDEQNCDCNPTTEHRCGDGRCIAMEW  
VCDGDHDCVDKSDDEVNCSCHSQGLVECRNGQCIPSTFQCDGEDCKDGSDEENCSVIQTS  
CQEGDQRCLYNPCLDSCGSSLCDPNNSLNCSQCEPITL ELCMNL PYNSTSYPNYFGHR  
TQKEASISWESSLPALVQTNCYKYL MFFSCTILVPKCDVNTGEHIPPCRALCEHSKERC

ESVLGIVGLQWPEDTDCSQFPEENSNDQTCLMPDEYVEECSPSHFKCRSGQCVLASRRCD  
GQADCCDDSDSEENCGCKERDLWECPSNKLKHTVICDGFPCPDYMDEKNCSFCQDDEL  
ECANHACVSRDLWCDGEADCSDSSDEWDCVTLINVNSSSFLMVHRAATEHHVCADGWQE  
ILSQLACKQMGLGEPVTKLIQEKEKEPRWLTLSNWNESLNGTTLHELLVNGQSCESRSK  
ISLLCTKQDCGRRPAARMNKRI LGGRTSRPGRWPWQCSLQSEPSGHICGCVLIAKKWVLT  
VAHCFEGRENAAVWKVVLGINNLDHPSVFMQTRFVKTIILHPRYSRAVVDYDISIVELSE  
DISETGYVRPCLPNPEQWLEPDITYCYITGWGHMGNKMPFKLQEGEVRIISLEHCQSYFD  
MKTITTRMICAGYESGTVDSMGDSGGPLVCEKPGGRWTLFGLTSWGSVCFSKVLPGVY  
SNVSYFVEWIKRQIYIQTFLN

>sp|Q6QEF8|CORO6\_HUMAN Coronin-6 OS=Homo sapiens GN=CORO6 PE=1 SV=2

MSRRVVRQSKFRHVFQAAKADQAYEDIRVSKVTWSSFCVNPFLAIIVEAGGGGAFI  
VLPLAKTGRVDKNYPLVTGHTAPVLDIDWCPHNDNVIASASDDTTIMVWQIPDYTPMRNI  
TEPIITLEGHSKRVGILSWHPTARNVLLSAGGDNV I I I WNVGTGEVLLSLDDMHPDVIHS  
VCWNSNGSLLATTCCKDKTLRIIDPRKGQVVAEQARPHEGARPLRAVFTADGKLLSTGFSR  
MSERQLALWDPNNFEFPVALQEMDTSNGLLPFYDPDSSIVYLCGKGDSSIRYFEITDEP  
PFVHYLNTFSSKEPQRGMGFMPKRGLDVSKCEIARFYKLHERKCEPIIMTVPRKSDLFQD  
DLYPDTPGPEPALEADWLSGQDAEPVLISLRDGYVPPKHREL RVTKRNILDVRPPSGPR  
RSQSASDAPLSQQHTLETLL EEIKALRERVQAQEQRITALENMLCELVDGTD

>sp|Q9Y271|CLTR1\_HUMAN Cysteinyl leukotriene receptor 1 OS=Homo sapiens GN=CYSLTR1 PE=1 SV=1

MDETGNLTVSSATCHDTIDDFRNQVYSTLYSMISVVGGFFGNGFVLYVLIKTYHKKSAFQV  
YMINLAVADLLCVCTPLRVVYVHKGIWLFGLCRLSTYALYVNL YCSIFFMTAMSFF  
RCIAIVFPVQINLVTQKKARFVCVG I WIFVILTSSPFLMAKPQKDEKNNTKCFEPPQDN  
QTKNHVLVLHYVSLFVGFIIPFVIIIVCYTMIILTLLKKSMKKNLSSHKAIGMIMVVT A  
AFLVSFMPYHIQRTIHLHFLHNETKPCDSVLRMQKSVITLSLAASNCCFDPLLYFFSGG  
NFRKRLSTFRKHSLSVTVYVPRKKASLPEKGEEICKV

>sp|Q8N0X4|CLYBL\_HUMAN Citrate lyase subunit beta-like protein, mitochondrial OS=Homo sapiens GN=CLYBL PE=1 SV=2

MALRLLRRAARGAAAAALLRLKASLAADIPRLGYSSSSHHKYIPRRVLYVPGNDEKKIK  
KIPSLNVDCAVLDCEDGVAANKKNEARLRIVKTLEDIDLGPTEKCVRVNSVSSGLAEEDL  
ETLLQSRVLPSSMLPKVESPEEIQWFADKFSFHLKGRKLEQPMNLIPFVETAMGLLNFK  
AVCEETLKVGPPQVGLFLDAVVGGEDFRASIGATSSKETLDILYARQKIVVIAKAFGLQA  
IDLVIIDFRDGAGLLRQSREGAAMGFTGKQVIHPNQI AVVQE QFSPSPEKIKWAEELIAA  
FKEHQQLGKGAFTFQGS MIDMPLLKQAQNTVTLATSIKEK

>sp|P23946|CMA1\_HUMAN Chymase OS=Homo sapiens GN=CMA1 PE=1 SV=1

MLLLPLPLLLFLLCSRAEAGEIIGGTECKPHSRPYMAYLEIVTSNGPSKFCGGFLIRRNF  
VLTAACHAGRSITVTLGAHNITEEEDTWQKLEVIKQFRHPKYNTSTLHHDIMLLKLKEKA  
SLTLAVGTLFPFSQFNFPVPPGRMCRVAGWGRTGVLKPGSDTLQEVKLRLMDPQACSHFRD  
FDHNLQLCVGNPRKTKSAFKGDSGGPLL CAGVAQGIVSYGRSDAKPPAVFTRISHYRPWI  
NQILQAN

>sp|Q96I85|CN144\_HUMAN Putative uncharacterized protein C14orf144 OS=Homo sapiens GN=C14orf144 PE=3 SV=2

MCRETAGYGWLLASTELLSLLEPLSPQLLKEHISCTSQVAAGAKVTPDSAVWAP

>sp|A1A4T8|CN182\_HUMAN Uncharacterized protein encoded by LINC01588 OS=Homo sapiens  
GN=LINC01588 PE=1 SV=1

MTGRMATLEKSHSSACWRKRSSRTCVEPDRTQDAIHEPRGLSRSHTVLRHRHFVFLPLSS  
GAHPSVPPRDHFTHPFFASRVDGTVVERGNPALWLCSSPTGTRATKATKDPTLSSVQASQ  
LEEARRQRPRGHQEAFFPAERAWEHNAERERIVP

>sp|Q9NSA3|CNBP1\_HUMAN Beta-catenin-interacting protein 1 OS=Homo sapiens GN=CTNNBIP1  
PE=1 SV=1

MNREGAPGKSPEEMYIQKQVRVLLMLRKMGSNLTASEEEFLRTYAGVVNSQLSQLPPHSI  
DQGAEDVVMASRSSETEDRRQ

>sp|O95476|CNEP1\_HUMAN CTD nuclear envelope phosphatase 1 OS=Homo sapiens GN=CTDNEP1 PE=1  
SV=2

MMRTQCLLGLRTFVFAAKLWSFFIYLLRRQIRTVIQYQTVRYDILPLSPVSRNRLAQVK  
RKILVLDLDELIIHSHHDGVLRPTRPGTPPDFILKVVIDKHPVRFFVHKRPHVDFFLV  
VSQWYELVVFTASMEIYGSAVADKLDNSRSILKRRYYRQHCTLELGSYIKDLSVHSDLS  
SIVILDNSPGAYRSHPDNAIPIKSWFSDPSDTALLNLLPMLDALRFTADVRSVLSRNLHQ  
HRLW

>sp|Q9NRU3|CNNM1\_HUMAN Metal transporter CNNM1 OS=Homo sapiens GN=CNNM1 PE=2 SV=3

MAAAAAAAAAAVGRLRDCCSRGAVLLLLFFSLSPRPPAAAAWLLGLRPEDTAGGRVSLEGG  
TLRAAEGTSFLLRVYFQPGPPATAAPVPSPTLNSGENGTGDWAPRLVFIEEPPGGGGVAP  
SAVPTRPQPGQRCREQSDWASDVEVLGPLRPGGVAGSALVQVRVRELKGEAERGGAGGG  
GKLFSLCAWDGRAWHHGAAGFLLRVRPRLYGPGDLLPPAWLRALGALLLLALSALFS  
GLRLSLLSLDPVELRVLNRSGSAAEQEQARRVQAVRGRGTHLLCTLLGQAGANAALAGW  
LYTSLPPGFGGTGEDYSEEGIHFPWLPALVCTGAVFLGAEICPYSVCSRHGLAIASHVC  
LTRLLMAAAFPVCYPLGRLLDWALRQEISTFYTREKLETLRAADPYSDLVKEELNIIQG  
ALELRTKVVEEVLTPLGDFMLRSDAVLDFATVSEILRSGYTRIPVYEGDQRHNIVDILF  
VKDLAFVDPDDCTPLLTVTRFYNRPLHCVFNDTRLDTVLEEFKKGKSHLAIVQRVNNEGE  
GDPFYEVMGIVTLEDIEEIIKSEILDETDLYTDNRKKQRPVQREKRKHDFSLFKLSDTE  
MRVKISPQLLLATHRFMATEVEPFKSLYLSEKILLRLLKHPNVIQELKFDEKNKKAPEHY  
LYQRNRPVDYFVLLLQGKVEVEVGKEGLRFENGAFYYGVPAIMTTACSDNDVRKVGSLA  
GSSVFLNRSPSRCSGLNRSESPNRERSDFGGSNTQLYSSSNLYMPDYSVHILSDVQFVK  
ITRQQYQNALTACHMDSSPQSPDMEAFTDGDSTKAPTTRGTPQTPKDDPAITLLNNRNSL  
PCSRSDGLRSPSEVVYLRMEELAFTEEMTDFEEHSTQQLTSPAAPVTRAASDSECCNI  
NLDTETSPCSSDFEENVGKKLLRTLSGQKRKRSPEGERTSEDNSNLTPLIT

>sp|Q6P4Q7|CNNM4\_HUMAN Metal transporter CNNM4 OS=Homo sapiens GN=CNNM4 PE=1 SV=3

MAPVGGGGRPVGGPARGRLLLAAPVLLVLLWALGARGQGSPQQGTIVGMRLASCNKSCGT  
NPDGIIFVSEGSTVNLRLYGYSGLNISSNLISFTEVDDAETLHKSTSCELTkdLVVQQL  
VNVSRGNTSGVLVLTkFLRRSESMKLYALCTRAQPDGPWLKWTdKDSLLFMVEEPGRFL  
PLWLHILLITVLLVLSGIFSGNLGLMALDPMELRIVQNCGTEKERRYARKIEPIRRKGN  
YLLCSLLGNVLVNTSLTILLDNLIGSGLMAVASSTIGIVIFGEILPQALCSRHGLAVGA  
NTILLTKFFMLLTfPLSFPISKLLDFFLGQEIRTVYNREKLMEMLKVTEPYNDLVKEELN  
MIQGALELRKTkVEDIMTQLQDCFMIRSDAILDFNTMSEIMESGYTRIPVFEDEQSNIVD  
ILYVKDLAFVDPDDCTPLKtITRFYNHPVHFVFHDtKLDAMLEEFKKGKSHLAIVQKVNN  
EGEGDPFYEVGLVtLEDVIEEIIKSEILDESDMYTDNRSRKRvSEKNKRDFSafKdADN  
ELKVKISPQLLLAHRFLATEVSQFSPSLISEKILLRLLKYPDVIQELKFDEHNKYARH

YLYTRNKPADYFILILQGKVEVEAGKENMKFETGAFSYYGTMALTSVPSDRSPAHTPLS  
RSASLSYPDRTDVSTAATLAGSSNQFGSSVLGQYISDFSVRALVDLQYIKITRQQYQNGL  
LASRMENSPQFPIDGCTTHMENLAEKSELPVDETTTLLNERNSSLHKASHENAI

>sp|Q9NZN8|CNOT2\_HUMAN CCR4-NOT transcription complex subunit 2 OS=Homo sapiens GN=CNOT2  
PE=1 SV=1

MVRTDGHTLSEKRNYQVTNSMFGASRKKFVEGVDSYHDENMYYSQSSMFPHRSEKDMLA  
SPSTSGQLSQFGASLYGQQSALGLPMRGMSNNTPQLNRSLSQGTQLPSHVTPTTGVP TMS  
LHTPPSPSRGILPMNPRNMNHSQVGQIGIPSRTNSMSSSGLGSPNRSSPSIICMPKQQ  
PSRQPFTVNSMSGFGMNRNQAFGMNNSLSSNIFNGTDGSENV TGLDLSDFPALADNRRE  
GSGNPTPLINPLAGRAPYVGMVTKPANEQSQDFS IHNE DFPALPGSSYKDPTSSNDDSKS  
NLNTSGKTTSSTDGPKFPGDKSSTTQNNNQKKGIQVLPDGRVTNIPQGMVTDQFGMIGL  
LTFIRAAETDPMVHLALGSDLTTLGLNLNSPENLYPKFASPWASSPCR PQDIDFHPVSE  
YLTNIHIRDKLAAIKLGRYGEDLLFYLYYMNGGDVLQLLAAVELFNRDWRYHKEERVWIT  
RAPGMEPTMKTNTYERGTYYFFDCLNWRKVAKEFHLEYDKLEERPHLPSTFNYNPAQQAF

>sp|Q9BV87|CNPD1\_HUMAN Protein CNPPD1 OS=Homo sapiens GN=CNPPD1 PE=2 SV=2

MDLTGLLLDEEGTFSLAGFQDFTFLPGHQKLSARIRRRLYYGWDWEADC SLEELSSPVAD  
IAVELLQKAAPSPIRRLQKKYVAHSREACISPCAMMLALVYIERLRHRNP DYLQHVSSS  
DLFLISMVASKYLYDEGEEEEVFND EWGAAGGVAVPTLNALERGFLSAMDWHLYTDPRE  
IFEVLSWLESCVAEQQRWRGWYTYTDL CVLLEQPTWQLALGSLCQRLVKLSCLLAVAYV  
SSVALAVASVAVIHQSLGLSCIPTPGPPDLGLTSRCLLEPCIPSVPQCLPSLANVSSCLE  
GSMGLRSLWGSLLASLT PPPLPPDP PAPTLLHNCHLCQKLQRDSPTCHACLHPNRTVP  
TALSSPWYHTYGLAPPWPWSPVLLSLPQPQC SLFSVMELARLKS FVFPG

>sp|Q96NU0|CNT3B\_HUMAN Contactin-associated protein-like 3B OS=Homo sapiens GN=CNTNAP3B  
PE=2 SV=2

MASVAWAVLKVLLLLPTQTWSPVGAGNPPDCDSPLASALPRSSFSSSELSSSHGPGFSR  
LNRRDGAGGWTPLVSNKYQWLQIDLGERMEVTAVATQGGYGSSDWVTSYLLMFSDGGRNW  
KQYRREESI WGFPGNTNADSVVHYRLQPPFEARFLRFLPLAWNPRGRIGMRIE VYG CAYK  
SEVVYFDGQSALLYTLDDKKPLKPIRDVISLKF KAMQSN GILLHREGQHGNHITLELIK GK  
LVFFLNSGNAKL PSTIAPVTLTLGSLDDQHWSVLIELLDTQVNFTVDKHTHHFQAKGD  
SSNLDLNFEISFGGILSPGRSRAFTRK SFHGCLENLYNGVDVTELAKKHK PQILMMGNV  
SFSCPQPQTVPVTF LSSRSYLALPGNSGEDKVS VTFQFRTWNRAGHLLFGELQRGSGSFV  
LFLKDGKLLSLFQAGQSPRNVTAGAGLNDGQWHSVSFS AKWSHMNVVDDDTAVQPLVA  
VLIDSGDTYYFGGCLGNSSGSGCKSPLGGFQGCLRLITIGDKAVDPILVQQGALGSFRDL  
QIDSCGITDRCLPSYCEHGECSQSWDTFSCDCLGTGYTGETCHSSLYEQSCEAHKHRGN  
PSGLYYIDADGSGPLGPFLVYCNMTADSAWTVVRHGGPDAVTLRGAPSGHPLSAVSFAYA  
AGAGQLRAAVNLAERCEQRLALRCGTARRPDSRDGTPLS WVVGR TNETHTSWGGSLPDAQ  
KCTCGLEGNCIDSQYYCNC DAGQNEWTSDTIVLSQKEHLPVTQIVMTDTGQPHSEADYTL  
GPLLCRGDKSFWNSASFNTETSYLHFP AFHGELTADVCF FKT TVSSGVFMENLGITDFI  
RIELRAPTEVTF SFDVGN GPCEVTVQSPTPFNDNQWHHVRAERNVKGASLQVDQLPQKMQ  
PAPADGHVRLQLNSQLFIGGTATRQRGFLGCIRSLQLNGVALDLEERATVTPGVEPGCAG  
HCSTYGHLCRNNGRCREKR RGVTCDAFSAYDGPFC SNEISAYFATGSSMTYHFQEHYTL  
SENSSSLVSSLYRDVTLTREMITLSFR TTRSPSLLLYVSSFYEEYLSVILANNGSLQIRY  
KLDRHQNPDAFTFDFKNMADGQLHQVKINREEAVVMVEVNQSAKKQVILSSGTEFNAVKS  
LILGKVL EAGADPDTRRAATSGFTGCLSAVRFGRAAPLKAALRPSGPSRVTVRGHVAPM

ARCAAGAASGSPARELAPRLAGGAGRSGPVDEGEPLVNADRRDSAVMGGVIAVVIFILLC  
ITAIIRIYQQRKLKENESKVSKEEC

>sp|Q9H8S5|CNTD2\_HUMAN Cyclin N-terminal domain-containing protein 2 OS=Homo sapiens  
GN=CNTD2 PE=2 SV=2

MLVRGRDQGSGRSGPIVRRWAPRPSPLQSLAASLDAEPSSAAVPDGFAGPTVSPRRLA  
RPPGLEEALSALGLQGEREYAGDIFAEMVCRVPLRALPRAVTPEMRALVVDWLQVHE  
YLGLAGDTLYLAVHLLDSYLSAGRVRLHRLQLLGVAACLFVACKMEECVLPEPAFLCLLSA  
DSFSRAELLRAERRILSRDLFRLHHPGPLLCLGLAALAGSSPQVMLLATYFLELSLEA  
EAAGWEPGRRAAAALSLAHRLLDGAGSRLQPELYRCSLGGGSVWGHRSFRDLPSWSFLRS  
RRMRDNY

>sp|P26992|CNTFR\_HUMAN Ciliary neurotrophic factor receptor subunit alpha OS=Homo sapiens  
GN=CNTFR PE=1 SV=2

MAAPVPWACCAVLAAAAAVVYAQRHSPQEAPHVQYERLGSDVTLP CGTANWDAAVTWRVN  
GTDLAPDLLNGSQLVLHGLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSRSNT  
YPKGFYCSWHLPTPTYIPNTFNVTVLHGSKIMVCEKDPALKNRCHIRYMHLFSTIKYKVS  
ISVSNALGHNATAITFDEFTIVKPDPPENVVARPVPSNPRRELVWQTPSTWPDPEFPL  
KFFLRYPRLILDQWQHVELSDGTAHTITDAYAGKEYIIQVAAKDNEIGTWSWVAAHAT  
PWTEEPRLHTTEAQA AETTTSTTSSLAPPPTTKICDPGELGSGGGSAPFLVSPITLAL  
AAAAATASSLLI

>sp|Q9NXG0|CNTLN\_HUMAN Centlein OS=Homo sapiens GN=CNTLN PE=1 SV=5

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EGSGGRRPGGAAPAHAPLLSAPMGSRLEGISVEEAMVTRTQLLEEELSSLKEELALCQ  
ADKEFVWSLWKRLQVTNPDLTQVVS LVVEREKQKSEAKDRKVLEILQVKDAKIQEFEQRE  
SVLKQEINDLVKRKIAVDEENAF LRKEFSDLEKKFKDKSQEIKDTKECVQNKEEQNRLVI  
KNLEENKKLSTRCTDLLNDLEKL RKQEAHLRKEKYSTD AKIKTFEDNLEARKEVEVSQ  
SKYNALSLQLSNKQTELIQKMDITLVRKELQELQNL YKQNSTHTAQQAELIQQLQVLNM  
DTQKVL RNQEDVHTAESISYQKLYNELHICFETTKSNEAMLRQSVTNLQDQLLQKEQENA  
KLKEKLQESQGAPLPLPQESDPDYSAQVPHRPSLSSLETLMVSQKSEIEYLQEKKI ANE  
KLSENISANKGFSRKSIMTSAEGKHKEPPVKRSRSLSPKSSFTDSEELQKLKAERKIEN  
LEKALQLKSQENDEL RDAHEKRKERLQMLQTN YRAVKEQLKQWEEGSGMTEIRKIKRADP  
QQLRQEDSDAVWNE LAYFKRENQELMIQKMNLEEELDELKVHISIDKAAIQELNRCVAER  
REEQLFRSGEDDEVKRSTPEKNGKEMLEQTLQKVTELENRLKSFEKRSRKLKEGNKKLMK  
ENDFLKSLKQQQEDTETREKELEQI IKGSKDVEKENTELQVKISELETEVTSLRRQVAE  
ANALRNENEELINPMEKSHQSADRAKSEMATMKVRSGRYDCKTTMTKVKFKA AKKNCSVG  
RHHTVLNHSIKVMSNVFENLSKDGWEDVSESSSDSEAQTSQTLGTIIIVETSQKISPTEDG  
KDQKESDPTEDSQTQGEIVQTYLNIDGKTPKDYFHDKN AKKPTFQKKNCMQKSSHTAV  
PTRV NREKYKNIT AQKSSSNIILLRERIISLQQQNSVLQNAKKTAE LSVKEYKEVNEKLL  
HQQQVSDQRFQTSRQT IKKLNL DLAGLRKEKEDLLKKLESSEITS LAEENSQVTFPRIQ  
VTSLSPSRSM DLEMKQLQYKLK NATNELTKQSSNVKTLKFELLAKEEHIKEMHEKISRME  
RDITMKRHLIEDLKFRQKNLESNKSFS EMLQNL DKKVKTLTEECSNKKVSIDSLKQRLN  
VAVKEKSQYEQMYQKSKEELEKKDLKLTLLVSRISETESAMAEIETAASKQLQELALQSE  
QVLEGAQKTLLL ANEKVEEFTTFVKALAKELQNDVHVRRQIRELKKMKKNRDACKTSTH  
KAQTLAASILNISRDL EEILDTE DQVEIEKTKIDAENDKEWMLYIQKLLEGQSLTSPR  
LKCNGAIMAHQNLRLPDSSSSASAS

>sp|Q02246|CNTN2\_HUMAN Contactin-2 OS=Homo sapiens GN=CNTN2 PE=1 SV=1

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CRARASPPATYRWKMNGTEMKLEPGSRHQLVGGNLVIMNPTKAQDAGVYQCLASNPVGT  
VSREAILRFGLQEFKSKEERDPVKAHEGWGVMPCNPPAHYPGLSYRWLLNEFPNFIPTD  
GRHFVSQTTGNLYIARTNASDLGNYSCLATSHMDFSTKSVFSKFAQLNLAAEDTRLFAPS  
IKARFPAETYALVGQQTLECFAGNPVPRIKWRKVDGSLSPQWTTAEPTLQIPSVSFED  
EGTYECEAENSKGRDITVQGRIIVQAQPEWLKVISDTEADIGSNLRWGCAAAGKPRPTVRW  
LRNGEPLASQNRVEVLADGLRFSKLSLEDSGMYQCVAENKHGTIYASAEALAVQALAPDFR  
LNPVRLIPAARGGEILIPCQPRAPKAVVLWSKGTEILVNSSRVTVTPDGTLIIRNISR  
SDEGKYTCFAENFMGKANSTGILSVRDATAKITLAPSSADINLGDNLTLQCHASHDPTMDL  
TFTWTLDDFPIDFDKPGGHYRRTNVKETIGDLTILNAQLRHGGKYTCMAQTVVDSASKEA  
TVLVRGPPGPPGGVVVRDIGDTTIQLSWSRGFDNHSPIAKYTLQARTPPAGKWKQVRTNP  
ANIEGNAETAQVLGLTPWMDYEFVRIASNILGTGEPSPSSKIRTREAAAPSVAPSGLSGG  
GGAPGELIVNWTMSREYQNGDGFYLLSFRRQGSTHWQTARVPGADAQYFVYSNESVRP  
YTPFEVKIRSYNRRGDGPESLTALVYSAEEEPRVAPTKVWAKGVSSSEMNVTWEPVQQDM  
NGILLGYEIRYWKAGDKEAAADRVRTAGLDTSARVSGLHPNTKYHVTVRAYNRAGTGPAS  
PSANATMKPPRRPPGNISWTFSSSSLSIKWDPVVPFRNESAVTGYKMLYQNDLHLTPT  
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PGTVISHSVAMLILIGSLEL

>sp|P78357|CNTP1\_HUMAN Contactin-associated protein 1 OS=Homo sapiens GN=CNTNAP1 PE=1 SV=1

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WSPRIGDPNPWLQIDLMKKHRIIRAVATQGSFNSWDWVTRYMLLYGDRVDSWTPFYQRGHN  
STFFGNVNESAVVRHDLHFHTARYIRIVPLAWNPRGKIGLRLGLYGCYPKADILYFDGD  
DAISYRFPRGVSRLWDVFAFSFKTEEKDGLLLHAEGAQGDYVTLEGAHLLLHMSLGS  
SPIQPRPGHTTVSAGGVLDQHHYVRVDRFGRDVNFTLDGYVQRFILNGDFERLNLDT  
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DPDGSGLPKPFVYCDIRENRAWTVVRHDLWTTRVTGSSMERPFLGAIQYWNASWEEVS  
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GQPHSINITRVYRNLFIQVDYFPLTEQKFSLLVDSQLDSPKALYLGRVMETGVIDPEIQR  
YNTPGFSGCLSGVRFNNAVPLKTHFRTPRPMTAELAEALRVQGELSESNGAMPRLVSEV  
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SRSE

>sp|Q9UHC6|CNTP2\_HUMAN Contactin-associated protein-like 2 OS=Homo sapiens GN=CNTNAP2  
PE=1 SV=1

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>sp|Q9COA0|CNTP4\_HUMAN Contactin-associated protein-like 4 OS=Homo sapiens GN=CNTNAP4  
PE=1 SV=3

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SEVVDLDGKSSLLYRFDQKSLSPIKDIISLKFKTMQSDGILLHREGPNGDHITLQLRRAR  
LFLLINSGEAKLPSTSTLVNLTGSLDDQHWHSVLQRLGKQVNFTVDEHRHHFHARGE  
FNLMLNDYEISFGGIPAPGKVSFPHRNFHGCLENLYNGVDIIDLAKQQKPQIIAMGNV  
SFSCSQPQSMPTFLSSRSYLALPDFSGEEVSATFQFRTWNAKGLLLFSELQLISGGIL  
LFLSDGKLKSNLYQPGKLPSDITAGVELNDGQWHSVLSAKKNHLSVAVDGQMASAAPLL  
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HCSSYGKLCRNGGKCRERPIGFFCDCTFSAYTGPFCSNEISAYFGSGSSVIYNFQENYLL  
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>sp|Q8WYK1|CNTP5\_HUMAN Contactin-associated protein-like 5 OS=Homo sapiens GN=CNTNAP5  
PE=2 SV=1

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NISLSSSAIYTDAPS KENIALSFVTTQAPSLLLFINSSSQDFVVVLLCKNGSLQVRYHL  
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GKV TENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSCG  
FMVDSDVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMTR  
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>sp|Q8N137|CENTRB\_HUMAN Centrobins OS=Homo sapiens GN=CENTROB PE=1 SV=1

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PLIPGAGSERREDSFSDSTATLLNTRPLQDLSPSSSAQALEELFPRYTSLRPGPPLNP  
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RVVEGWNRHEARTEVLRGLQEEHQAAELTRSKQQETVTRLEQSLSEAMEALNREQESAR  
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PQNNENPSVDLLPPKSGPLTVPSWEEAPQVPRIPPPVHKTKVPLAMASSLFRVPEPPSSH



SQGGSPSSGSPERGGDGLTFPRQLMEVSQLLRLYQARGWGALPAEDLLLYLKRLEHSGTD  
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VWR

>sp|Q7Z7A1|CNTRL\_HUMAN Centriolin OS=Homo sapiens GN=CNTRL PE=1 SV=2

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KADLQEALRLGETEVTEKCNHIREVKSLLLELSFQKGELNVQISERKTQLTLIKQEIKE  
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IQKEMATIELVAQDNHERARRLMKELNQMYYETELKKQMANQKDLERRQMEISDAMRTL  
KSEVKDEIRTSKLNLNQFLPELPADLEAILERNENLEGELESLENLPFTMNEGPFEELK  
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>sp|Q6ZUT6|C0052\_HUMAN Uncharacterized protein C15orf52 OS=Homo sapiens GN=C15orf52 PE=1 SV=1

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GEKRVVSRNWARGTCGPRVTNEMLEDEDAEDHGGTFCLGELVELAVTMENKAEGKRIVSE  
KPTRARNQGIEGSPGGRVTRSPPTQVAISSDSARKGSWEPWSRPVGEPEAGWDYAWKQ  
EREQIDLARLARHRDAQGDWRRPWDLKAKSTLQDCSQLRGEGPARAGSRRGPRSHQKLQ  
PPPLLPDGKGRGGQASRPSVAPATGSKARGKERLTGRARRWDMKEDKEELEGQEGSQSTR  
ETPSEEEQAQKQSGMEQGRLGSAPAASPALASPEGPKGESVASTASSVPCSPQEPDLAPL  
DLSLGGAGIPGPRESGCVLGLRPGAQESPVSWPEGSKQQPLGWSNHQAELEVQTCPEPQR  
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>sp|POCOL4|C04A\_HUMAN Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

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LSRTTNIQGGINLLFSSRRGHLFLQTDQPIYNPGQVRVRYVFALDQKMRPSTDTITVMVEN  
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GCQV

>sp|P21964|COMT\_HUMAN Catechol O-methyltransferase OS=Homo sapiens GN=COMT PE=1 SV=2

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NHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLLELGAYCG  
YSAVRMARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKY  
DVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFE  
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>sp|P61923|COPZ1\_HUMAN Coatomer subunit zeta-1 OS=Homo sapiens GN=COPZ1 PE=1 SV=1

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LLEGLTVVYKSSIDLYFYVIGSSYENELMLMAVLNCLFDSLSQMLRKNVEKRALLENMEG  
LFLAVDEIVDGGVILESDPQQVVHRVALRGEDVPLTEQTVSQVLQSAKEQIKWSLLR

>sp|O75208|COQ9\_HUMAN Ubiquinone biosynthesis protein COQ9, mitochondrial OS=Homo sapiens  
GN=COQ9 PE=1 SV=1

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>sp|Q7KZN9|COX15\_HUMAN Cytochrome c oxidase assembly protein COX15 homolog OS=Homo sapiens  
GN=COX15 PE=1 SV=1

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KGRVLALCGLVCFQGLLGWYMKVSGLEEKSDSHDIPRVSQYRLAAHLGSALVLYCASLWT  
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IPEDLFTFSPILRVNFENPTMVQFDHRI LGITSVTAITVLYFLSRRIPLRRTKMAAVTL  
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>sp|Q9POS2|COX16\_HUMAN Cytochrome c oxidase assembly protein COX16 homolog, mitochondrial  
OS=Homo sapiens GN=COX16 PE=3 SV=1

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>sp|O14548|COX7R\_HUMAN Cytochrome c oxidase subunit 7A-related protein, mitochondrial  
OS=Homo sapiens GN=COX7A2L PE=1 SV=2

MYYKFSGFTQKLGAWASEAYSPQGLKPVVSTEAPPIIFATPTKLTSDSTVYDYAGKNKV  
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>sp|Q7Z4L0|COX8C\_HUMAN Cytochrome c oxidase subunit 8C, mitochondrial OS=Homo sapiens  
GN=COX8C PE=2 SV=1

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>sp|Q7L2K0|CP059\_HUMAN Uncharacterized protein C16orf59 OS=Homo sapiens GN=C16orf59 PE=1  
SV=1

MLPAGCSRRLVAELQGALDACAQRQLQLEQSLRVCRRLLHAWPTGTRALKPPPGPETNG  
EDPLPACTPSPQDLKELEFLTQALEKAVRVRRGITKAGERDKAPSLKRSIVTSSGTTAS  
APPHSPGQAGGHASDTRPTKGLRQTTVPAKGHPERRLLSVGDGTRVGMGARTPRPGAGLR  
DQQMAPSAAPQAEAFTLKEKGHLLRLPAAFRKAASQNSSLWAQLSSTQTSDDTAAAAAK  
TQFLQNMQTASGGPQRLSAVEVEAEAGRLRKACSLRLRMRELSAAPMDWMQEYRCLL

TLEGLQAMVGQCLHRLQELRAAAVEQPPRCPVGRPPGASPCGGRAEPAWSPQLLVYSS  
TQELQTLAALKLRVAVLDDQQIHLEKVLMAELLPLVSAAQPQGPWLALCRAVHSLICEGG  
ARVLTILRDEPAV

>sp|Q96LL3|CP092\_HUMAN Uncharacterized protein C16orf92 OS=Homo sapiens GN=C16orf92 PE=2  
SV=1

MGAGVGAGCTRGHRNWVPSQLPPREIKAGVSLAVVTEFAWVLAPRPKRATASALGTESP  
RFLDRPDFFDYPDSQARLLAVAQFIGEKPIVFINSOSSPGLFHHILVGLLVVAFFFLF  
QFCTHINFQKGA

>sp|P05177|CP1A2\_HUMAN Cytochrome P450 1A2 OS=Homo sapiens GN=CYP1A2 PE=1 SV=3

MALSQSVPFSAPELLASAIIFCLVFWVLKGLRPRVPKGLKSPPEPWGWPLLGHVLTGKN  
PHLALSRMSQRYGDLQIRIGSTPVLVLSRLDTIRQALVRQGDDFKGRPDLYTSTLITDG  
QSLTFSTDSGPVWAARRRLAQNALNTFSIASDPASSSSCYLEEHVSKEAKALISRLQELM  
AGPGHFDYPYNQVVSVANVIGAMCFGQHFPESSDEMLSLVKNTHEFVETASSGNPLDFFP  
ILRYLPNPALQRKAFNRFLWFLQKTVQEHYQDFDKNSVRDITGALFKHKKGPASGN  
LIPQEKIVNLVNDIFGAGFDTVTTAISWSLMYLVTKPEIQRKIQKELDTVIGRERRPRLS  
DRPQLPYLEAFILETFRHSSFLPFTIPHSTTRDITLNGFYIPKKCCVFVNQWQVNHDP  
WEDPSEFRPERFLTADGTAINKPLSEKMMLFGMGKRRICIGVLAKWEIFLFLAILLQQL  
FSVPPGVKVDLTPIYGLTMKHARCEHVQARRFSIN

>sp|P20853|CP2A7\_HUMAN Cytochrome P450 2A7 OS=Homo sapiens GN=CYP2A7 PE=2 SV=2

MLASGLLLVALLACTVMVLMVSWQQRSRGLPPGPTPLPFIGNYLQLNTEHICDSIMK  
FSECYGPVFTIHLGPRRVVLCGHDAVREALVDQAEFSGRGEQATFDWVFKGYGVAFSN  
GERAKQLLRFAIATLRDFGVGKRGIEERIQEESGFLIEAIRSTHGANDPTFFLSRTVSN  
VISSIVFGDRFDYEDKEFLSLLSMMLGIFQFTSTSTGQLYEMFSSVMKHLPGPQQQAFKL  
LQGLEDFIAKKVEHNQRTLDPNPQDFIDSFLIHMQEEKNPNTFYLKNLMMSTLNLFI  
AGTETVSTTLRYGFLLLMKHPEVEAKVHEEIDRVIGKNRQPKFEDRTKMPYMEAVIHEIQ  
RFGDVIPMSLARRVKKDTKFRDFLPGKTEVFPMLGSVLRDPSFFSNPQDFNPQHFLDDK  
GQFKKSDAFVPFSIGKRNCFGEGLARMELFLFFTVMQNFRLKSSQSPKDIDVSPKHVV  
ATIPRNYTMSFLPR

>sp|Q6VVX0|CP2R1\_HUMAN Vitamin D 25-hydroxylase OS=Homo sapiens GN=CYP2R1 PE=1 SV=1

MWKLWRAEEGAAALGGALFLLLFALGVRQLLKQRRPMGFPPGPPGLPFIGNIYSLAASSE  
LPHVYMRKQSQVYGEIFSLDLGGISTVVLNGYDVVKECLVHQSEIFADRPLPLFMKMTK  
MGGLLSRYGRGWDHRRRLAVNSFRYFGYGQKSFESKILEETKFFNDIETYKRPFDK  
QLITNAVSNITNLIIIFGERFTYEDTFQHMIELFSENVLAASASVFLYNAPFWIGILPF  
GKHQQLFRNAAVVYDFLSRLIEKASVNRKPLPQHFDVAYLDEMDQKNDPSSTFSKENL  
IFSVGELIIAGTETTTNVLRWAILFMALYPNIQGQVQKEIDLIMGPNKPSWDDKCKMPY  
TEAVLHEVLRFCNIVPLGIFHATSEDAVVRGYSIPKGTTVITNLYSVHFDEKYWRDPEVF  
HPRFLDSSGYFAKKEALVPFSLGRRHCLGEHLARMEMFLFFTALLQRFHLHFPHELVPD  
LKPRLGMTLQPQPYLICAERR

>sp|P24462|CP3A7\_HUMAN Cytochrome P450 3A7 OS=Homo sapiens GN=CYP3A7 PE=1 SV=2

MDLIPNLAVETWLLAVSLILLYLGTTRTHGLFKKLIGPGTLPFLGNALSFRKGYWTF  
DMECYKKYRKVWGIYDCQQPMLAITDPDMIKTVLVKECYSVFTNRRPFGPVGFMKNAISI  
AEDEEWKRIRSLSPFTSTGSKLKEMVPIIAQYGDVLVRNLRREAETGKPVTLKHVFGAYS  
MDVITSTSGVSDSLNNPQDPFVENTKKLLRFNPLDPFVLSIKVFPFLTPILEALNITV  
FPRKVISFLTKSVKQIKEGRLKETQKHRVDFLQLMIDSQNSKDSETHKALSDLELMAQSI

IFIFAGYETTSSVLSFIIYELATHPDVQQKVQKEIDTVLPNKAPPTYDTVLQLEYLDMVV  
NETLRLFPVAMRLERVCKKDVEINGMFIPKGVVVMIPSYVLHHPKYWREPEKFLPERFS  
KKNKDNDIPYIYTPFGSGPRNCIGMRFALVNMKLALVRVLQNFSPKPKETQIPLKLRFG  
GLLLTEKPIVLKAESRDETMSG

>sp|Q9HCS2|CP4FC\_HUMAN Cytochrome P450 4F12 OS=Homo sapiens GN=CYP4F12 PE=1 SV=2

MSLLSLPWLGLRPVATSPWLLLLLVVGSWLLARILAWTYAFYNNCRRLQCFPPPKRNWF  
WGHLGLITPTEEGLKNSTQMSATYSQGFTIWLGPPIIPFIVLCHPDTIRSITNASAAIAPK  
DNLFIRFLKPWLGEGLLSGGDKWSRHRMLTPAFHFNILKSYITIFNKSANIMLDKWQH  
LASEGSSCLDMFEHISLMTLSLQKCFISFDSHCQERPSEYIATILELSALVEKRSQHIL  
QHMDFLYYLSHDGRRFHRACRLVHDFTDAVIRERRRTLPTQGIDDFKDKAKSKTLDIFD  
VLLLSKDEDGKALSDEDIRAEADTFMFGGHDITASGLSWVLYNLAHPEYQERCQEVQE  
LLKDRDPKEIEWDDLAQLPFLTMCVKESRLHPPAPFISRCTQDIVLPDGRVIPKGITC  
LIDIIGVHHNPTVWPDPEVYDPFRFDPENSKGRSPLAFIPFSAGPRNCIGQAFAMAEMKV  
VLALMLLHFRFLPDHTEPRRLELIMRAEGGLWLRVEPLNLSLQ

>sp|Q6ZWL3|CP4V2\_HUMAN Cytochrome P450 4V2 OS=Homo sapiens GN=CYP4V2 PE=1 SV=2

MAGLWLGLVWQKLLLWGAASALSLAGASLVLSLLQRVASYARKWQMRPIPTVARAYPLV  
GHALLMKPDGREFFQQIIIEYTEEYRHMPLLKLWVGVPVMVALYNAENVEVILTSSKQIDK  
SSMYKFLEPWLGLLLTSTGNKWSRRKMLTPTFHFTILEDFLDIMNEQANILVKKLEKH  
INQEAFNCFYITLCALDIICETAMGKNIGAQSNDSEYVRAVYRMSEMFRRIKMPWLW  
LDLWYLMFKEGWHEHKKSLQILHTFTNSVIAERANEMNANEDCRGDGRGSAPSKNKRRAFL  
DLLSVTDDEGNRLSHEDIREEVDTFMEGHDTAAAINWSLYLLGSNPEVQKKVDHELD  
DVFGKSDRPATVEDLKKLRYLECVIKETLRLFPSVPLFARVSSEDCEVAGYRVLKGTEAV  
IIPYALHRDPRYPNPPEEFQPERFFPENAQGRHPYAYVPFSAGPRNCIGQKFAVMEEKTI  
LSCILRHFWIESNQKREELGLEGLILRPSNGIWIKLKRRNADER

>sp|AOPK11|CLRN2\_HUMAN Clarin-2 OS=Homo sapiens GN=CLRN2 PE=2 SV=1

MPGWFKKAWYGLASLLSFSSFILIIVALVPHWLSGKILCQTGVDLVNATDRELVKFIGD  
IYYGLFRGCKVRQCGLGGRQSQFTIFPHLVKELNAGLHVMILLLLFLALALALVSMGFAI  
LNMIQVPYRAVSGPGGICLWNVLGGVVALAIASFVAAVKFHDLTERIANFQEKLFQFVV  
VEEQYEESEFWICVASASAHANLVVAISQIPLPEIKTKIEEATVTAEDILY

>sp|075153|CLU\_HUMAN Clustered mitochondria protein homolog OS=Homo sapiens GN=CLUH PE=1  
SV=2

MLLNGDCPESLKKEAAAAEPPRENGLDEAGPGETTGQEVIVIQDTGFSVKILAPGIEPF  
SLQVSPQEMVQEIHQVLMREDTCHRTCFSHLHDGNVLDHFSELRSVEGLQEGSVLRVVE  
EPTYVREARIHVRHVRDLLKSLDPSDAFNGVDCNSLSFLSVFTDGDLDGDSGKRKKGLEMD  
PIDCTPPEYILPGSRERPLCPLQPQNRDWKPLQCLKVLMSGWNPPPGNRKMHGDLMYLF  
VITAEDRQVSITASTRGFYLNQSTAYHFNPKPASPRFLSHSLVELLNQISPTFKKNFAVL  
QKKRVQRHPFERIATPFQVYSWTAPQAEHAMDCVRAEDAYTSRLGYEEHIPGQTRDWNNE  
LQTTRELPRKNLPERLLRERAIKVFHSDFTAAATRGAMAVIDGNVMAINPSEETKMQMFI  
WNNIFFSLGFDVRDHYKDFGGDVAAYVAPTNDLNGVRTYNAVDVEGLYTLGTVVVDYRGY  
RVTAQSIIPGILERDQEQSVIYGSIDFGKTVVSHPRYLELLERTSRPLKILRHQVLNDRD  
EEVELCSSVECKGIIIGNDRHYILDLLRTFPDLNFLPVPGEELPEECARAGFPRAHRHK  
LCCLRQELVDAFVEHRYLLFMKLAALQLMQNASQLETPSSLENGGPSSLESKSEDPGQ  
EAGSEEEGSSASGLAKVKELAETIAADDGTDPRSREVIRNACKAVGSISSTAFDIRFNP  
IFSPGVRFPESCQDEVRDQKQLLKDAAAFLLSCQIPGLVKDCMEHAVLPVDGATLAEVMR

QRGINMRYLGKVLELVLRSPARHQLDHVFKIGIGELITRSAKHIFKTYLQGVELSGLSAA  
ISHFLNCFLLSSYPNPVAHLPADELVSKKRNKRRKNRPPGAADNTAWAVMTPQELWKNICQ  
EAKNYFDFDLECETVDQAVETYGLQKITLLREISLKTGIQVLLKEYSFDSRHKPAFTEED  
VLNIFPVVKHVNPKASDAFHFFQSGQAKVQQGFLKEGCELINEALNLFNNVYGAMHVETC  
ACLRLLARLHYIMGDYAEALSNNQKAVLMSERVMGTEHPNTIQEYMHLLALYCFASSQLST  
ALSLLYRARYLMLLVFGEDHPEMALLDNNIGLVHLHGVMYDLSLRFLLENALAVSTKYHGP  
KALKVALSHHLVARVYESKAEFRSALQHEKEGYTIYKTQLGEDHEKTESSEYLYKCLTQQ  
AVALQRTMNEIYRNGSSANIPPLKFTAPSMASVLEQLNVINGILFIPLSQKDLENLKAEV  
ARRHQLQEASNRNRDAEEPMAPEPAPAGAPGDLGSQPPAAKDPSPSVQG

>sp|Q7Z624|CMKMT\_HUMAN Calmodulin-lysine N-methyltransferase OS=Homo sapiens GN=CMKMT  
PE=1 SV=2

MESRVADAGTGETARAAGGSPAVGCTTRGPVVSAPLGAARWKLRLQVLKQKHLDDCLRHV  
SVRRFESFNLFVTEGKERETEEVGAWVQYTSIFCPEYSISLRHNSGSLNVEDVLTSTFD  
NTGNVCIWPSEEVLAYYCLKHNNIFRALAVCELGGMTCLAGLMVAISADVKEVLLTDGN  
EKAIRNVQDIITRNQKAGVFKTKISSCVLRWDNETDVSQLEGHFDIVMCADCLFLDQYR  
ASLVDAIKRLLQPRGKAMVFAPRRGNTLNQFCNLAEKAGFCIQRHENYDEHISNFHSLK  
KENPDIYEENLHYPLLLILTKHG

>sp|Q86TU6|CN070\_HUMAN Putative uncharacterized protein encoded by LINC00523 OS=Homo  
sapiens GN=LINC00523 PE=5 SV=1

MGIGTGHTSMNKGKGDVTLLELSVEKRRWRINMETSKIILEKMQSDDVLDGNRERSNERE  
GRDSLSEKLKSKQNLKDEEKLRYIKTGKSIQVEGTVRAKALRWVQ

>sp|Q9Y224|CN166\_HUMAN UPF0568 protein C14orf166 OS=Homo sapiens GN=C14orf166 PE=1 SV=1

MFRRKLTALDYHNPAGFNCKDETEFRNFIVWLEDQKIRHYKIEDRGNLRNIHSSDWPKFF  
EKYLDRVNCPFKIQRQEAIDWLLGLAVRLEYGDNAEKYKDLVPDNSKTADNATKNAEPL  
INLDVNNPDFKAGVMALANLLQIRHDDYLVMLKAIRILVQERLTQDAVAKANQTKEGLP  
VALDKHILGFDTGDAVLNEAAQILRLHIEELRELQTKINEAIVAVQAIADPKTDHRLG  
KVGR

>sp|Q8NA66|CNBD1\_HUMAN Cyclic nucleotide-binding domain-containing protein 1 OS=Homo  
sapiens GN=CNBD1 PE=2 SV=1

MPMSSLPAAILSHMTAINNVPPPPLHSIPNLKSKKHINYGQLNALCHIRGQHSRSMNIL  
SAHDTFMKQYPKVFLHQKPRLPKLFKQEEQRELNEGKEESQHQQPDDSNNAIVHVQRAHG  
GHILYRPKRATEKFEEFLAILKKLP IHRTPYEHKTVWFKLTIPDLTFQLNDKHLKTLK  
TVFSETWLKGSTVVANDGFYVILKGLARPQTNVYKNLIEGSDSPDSFISQSFHSFIWSEE  
FKNSTLAEMYLPYSMSLSKWSTFGTLEVMPQNESETQMFSVVTEDDCEILKIPAKGYAK  
IKEEKIKLENMQKLKLRMCPPYEEWPTLSIYELIALLKWKFP PGHVIVESGNIISFVG  
YINSGCCNIYRSIIGFVKLRSNKVKRSQKL VYMGKLKEKESFGEISVLLQVPFTCTIITK  
KEVEMAIIEDKDLFVA

>sp|Q96M20|CNBD2\_HUMAN Cyclic nucleotide-binding domain-containing protein 2 OS=Homo  
sapiens GN=CNBD2 PE=2 SV=2

MRRHMTYAWQLLKKELGLYQLAMDIIIMIRVCKMFRQGLRGFREYQIIETAHWKHPIFS  
FWDKKMQSRVTFDTMDFIAEEGHFPPKAIQIMQKKPSWRTEDEIQAVCNILQVLDSYRNY  
AEPLQLLLAKVMRFERFGRRRV IIKKGQKGSFYFIYLGTVAITKDEDGSSAFLDHPK  
LHKGSCFGEMDVLHASVRRSTIVCMEETEFLLVDREDFFANKLDQEVQKDAQYRFEFFRK  
MELFASWSDEKLWQLVAMAKIERFSYGQLISKDFGESPFIMFISKGSCEVLRLDLGASP

SYRRWIWQHLELIDGRPLKTHLSEYSPMERFKEFQIKSYPLQDFSSLKPLHLKKAUGLQG  
TSFSRKIRTSGDTLPKMLGPKIQSRPAQSIKCAMINIKPGELPKEAAVGAYVKVHTVEQG  
EILGLHQAFLEPEGEDTRPLILMSLGNELIRIRKEIFYELIDNDEMICKLLKLNIAPFS  
DEDMCQKFLQQNSWNIFRKDLLQLLVEPCQSQLFTPNRPKKREIYNPKSVVLDLCSINKT  
TKPRYPIFMAPQKYLPLRIVQAIKAPRYKIRELLA

>sp|Q15003|CND2\_HUMAN Condensin complex subunit 2 OS=Homo sapiens GN=NCAPH PE=1 SV=3

MGPPGALPATMNNSSSETRGHPHSASSPSERVFPMLPRKAPLNIPGTPVLEDFPQND  
EKERLQRRRSRVFDLQFSTDSPRLASPSSRSIDISATIPKFTNTQITEHYSTCIKLSTE  
NKITTKNAFGLHLIDFMSEILKQKQDTEPTNFKVAAGTLDASTKIYAVRVDVHADVYRVL  
GGLGKDAPSLEEVEGHVADGSATEMGTTKAVKPKKKHLHRTIEQNINNLNVSEADRKCE  
IDPMFQKTAASFDECSTAGVFLSTLHCQDYRSELLFPSDVQTLSTGEPELPELGCVEMT  
DLKAPLQQCAEDRQICPSLAGFQFTQWQDSETHNESVSALVDKFKKNDQVFDINAEVDESD  
CGDFPDGSLGDDFDANDEPDHTAVGDHEEFRSWKEPCQVQSCQEEMISLGDGDIRTMCPL  
LSMKPGEYSYFSPRTMSMWAGPDHWRFRPRRKQDAPSQSENKKKSTKKDFEIDFEDDIDF  
DVYFRKTKAATILTKSTLENQNRATTLPDFTNVDLTVQLHLKPGTRLLKMAQGHRVE  
TEHYEEIEDYDYNPNPNDTSNFCPLQAADSDEDLDDLFGVPVGNLSPYPCHPPKTAQ  
QNGDTPEAQGLDITTYGESNLVAEPQKVNKIEIHYAKTAKKMDMKKLQSMWSLLTALSG  
KEADAEANHREAGKEAALAEVADEKMLSGLTKDLQRSLLPPVMAQNLSIPLAFACLLHLAN  
EKNLKLEGTELDSDVLRQGD

>sp|Q8IZM0|CNG10\_HUMAN Putative CNGA1-overlapping antisense gene protein OS=Homo sapiens  
PE=5 SV=1

MDSYSAKIRANLVCRRSTDPSIRVTFSSRSLGSLPAFAMFRSSRPSFIKICFPFSSSIVL  
ASGYSVRASMRSSFERQNRSE

>sp|P29973|CNGA1\_HUMAN cGMP-gated cation channel alpha-1 OS=Homo sapiens GN=CNGA1 PE=1  
SV=3

MKLSMKNNIINTQQSFVTMPNVIVPDIEKEIRRMENGACSSFSSEDDDSASTSESEENENP  
HARGSFYSYKSLRKGGPSQREQYLPGAIALFNVNNSNKDQEPKKEKKKKKEKSKSDDKN  
ENKNDPEKKKKKKKEKKEKKEKSKDKKEEKEKVVVIDPSGNTYYNWLFCITLPVMYNW  
TMVIARACFDELQSDYLEYWLILDYVSDIVYLIDMFVRTRTGYLEQGLLVKEELKLINKY  
KSNLQFKLDVLSLIPDLYFKLGNYPEIRLNRLRFSRMFEFFQRTETRTNYPNIFRI  
SNLVMYIVIIHWNACVFYSISKAIKGFNDTWVYPDINDPEFGRLARKYVVSLSYWLSTLTL  
TTIGETPPPVRDSEYVVFVVDLIGVLIFATIVGNIGSMISNMNAARAEFQARIDAIKQY  
MHFRNVSKDMEKRVIKWFDYLWTKKTVDEKEVLKYLDPKLRAEIAINVHLDLTKKVRIF  
ADCEAGLLVELVLKLQPVYSPGDYICKKGDIGREMYIIEGKLAVVADDGVTQFVVLSD  
GSYFGEISILNIKSGKAGNRRTANIKSIGYSDLFCLSKDDLMEALTEYPAKTMLEEKGK  
QILMKDGLLDLNIANAGSDPKDLEEKVTRMEGSVDLLQTRFARILAEYESMQQKLKQRLT  
KVEKFLKPLIDTEFSSIEGPGAESGPIDST

>sp|Q6PI25|CNIH2\_HUMAN Protein cornichon homolog 2 OS=Homo sapiens GN=CNIH2 PE=1 SV=1

MAFTFAAFCYMLTLVLCASLIFFVIWHIIAFDELRTDFKNPIDQGNPARARERLKNIERI  
CCLLRKLVVPEYSIHGLFCLMFLCAAEWTLGLNIPLLFYHLWRYFHRPADGSEVMYDAV  
SIMNADILNYCQKESWCKLAFYLLSFFYYLYSMVYTLVSF

>sp|Q8TBE1|CNIH3\_HUMAN Protein cornichon homolog 3 OS=Homo sapiens GN=CNIH3 PE=2 SV=1

MAFTFAAFCYMLSLVLCALIFFAIWHIIAFDELRTDFKSPIDQCNPVHARERLRNIERI  
CFLLRKLVPEYSIHSLFCIMFLCAQEWTLGLNVPLLFYHFWRYFHCPADSSSELAYDPP

VVMNADTLSYCQKEAWCKLAFYLLSFFYYLYCMIYTLVSS

>sp|Q969H4|CNKR1\_HUMAN Connector enhancer of kinase suppressor of ras 1 OS=Homo sapiens  
GN=CNKSR1 PE=1 SV=1

MEPVETWTPGKVATWLRGLDDSLQDYPFEDWQLPGKNLLQLCPQSLEALAVRSLGHQELI  
LGGVEQLQALSSRLQTENLQSLTEGLLGATHDFQSIVQGCLGDCAKTPIDVLCAAVELLH  
EADALLFWLSRYLFSHLNDFSACQEIRDLEELSQVLHEDGPAAKEGTVLRICSHVAGI  
CHNILVCCPKELLEQKAVLEQVQLDSPLGLEIHSTSNQHFVSQVDTQVPTDSRLQIQPG  
DEVVQINEQVVVREERDMVGWPRKNMVRELLREPAGLSVLKKIPIPETPPQTPPVLD  
PHQRSPSLSLAPLSRAPSEDVFAFDLSSNPSPGPSPAWTDASLGPEPLPIPEPPAIL  
PAGVAGTPGLPESDPKSPVGRKKSGLATRLSRRRVSCRELGRPDCDGLLLRKAPGGFM  
GPRWRRRWVFLKGHTLYWYRQPQDEKAEGLINVSNSLESQHDQKKKYVFQLTHDVYKPF  
IFAADTLTDLMSWVRHLITCISKYQSPGRAPPPREEDCYSETAEDPDDEAGSHSASPSP  
AQAGSPLHGDTPAATPTQRSPTSFGSLTDSSEEALGEMVRGLRQGGVSLLGQPQPLTQ  
EQWRSSFMRRNRDPQLNERVHRVRALQSTLAKLQELQVLEEVLGDPELTGEKFRQWKEQ  
NRELYSEGLGAWGVAQEGSSHILTSDESTQSPHSLPSDPEHSHLCPLTSESSLRPPDL

>sp|Q6P9H4|CNKR3\_HUMAN Connector enhancer of kinase suppressor of ras 3 OS=Homo sapiens  
GN=CNKSR3 PE=1 SV=1

MEPVTKWSPKQVVDWTRGLDDCLQQYVHKFEREKINGEQLLQISHQDLEELGVTRIGHQE  
LVLEAVDLLCALNYGLETDMKNLVLKLRASSHNLQNYISSRRKSPAYDGNTSRKAPNEF  
LTSVVELIGAALKALLAWLDRAFTGITDFSVTKNKIIQLCLDLTTTVQKDCFVAEMEDKV  
LTVVKVLNGICDKTIRSTTDPVMSQCACLEEVHLPNIKPGELGMYIKSTYDGLHVITGT  
TENS PADRSQKIHAGDEVIQVNQQTVVGWQLKNLVKKLRENPTGVVLLLKKRPTGSFNFT  
PAPLKNLRWKPPVLVQTSPPATTQSPESTMDTSLKKEKSAILDLYIPPPAVPYSPRDEN  
GSFVYGGSSKCKQLPGPKGSESPNSFLDQESRRRRFTIADSDQLPGYSVETNILPTKMR  
EKTPSYGKPRPLSMPADGNWMGIVDPFARPRGHGRKGEDALCRYFSNERIPPIIESSSP  
PYRFSRPTTERHLVRGADYIRGRCYINSDLHSSATIPFQEEGTKKKS GSSATKSSSTEP  
SLLVSWFTRLKLLTH

>sp|Q2T9L4|C0059\_HUMAN UPF0583 protein C15orf59 OS=Homo sapiens GN=C15orf59 PE=2 SV=1

MNIRGAPDLGQPSDDPSSGGERIRIQRMKMVGLEGILRELKEVAKELREVVSQIDKL  
TSDFDFELEPDDWTATVSSTSSSDKAGMGPPFDLGHLDFTADILSDSWEFCSFLDVST  
PSDSVDGPESTRPGAGPDYRLMNGGTPIPNGPRVETPDSSEEAFGAGPTVKSQLPQRTP  
GTRERVRFSQKVLHALCCDDEEGDEQEVEEEVGLPPEPAHTEAHAGPHKPSAPYKS  
RRSPLTSRHSGSTLAPEQTRRVTRNSSTQTVSDKSTQTVLPYTATRQKARGKN

>sp|A6NNL5|C0061\_HUMAN Uncharacterized protein C15orf61 OS=Homo sapiens GN=C15orf61 PE=2  
SV=2

MEALRAHEVALRLLLCPWASRAAARPKPSASEVLTRHLLQRRLPHWTSFCVPYSAVRN  
DQFGLSHFNWPVQGANYHVLRTGCFPFIKYHCSKAPWQDLARQNRFFTALKVVNLGIPTL  
LYGLGSWLFARVTETVHTSYGPITVYFLNKEDEGAMY

>sp|P02461|C03A1\_HUMAN Collagen alpha-1(III) chain OS=Homo sapiens GN=COL3A1 PE=1 SV=4

MMSFVQKGSWLLLALLHPTIIILAQQAEGGCSHLGQSYADRDVWKPEPCQICVCDSGSV  
LCDDIICDDQELDCPNPEIPFGECCAVCPQPPTAPTRPPNGQGPQGPKGDPGPPGIPGRN  
GDPGIPGQPGSPGSPGPPGICESCPTGPQNYSPQYDSYDVKSGVAVGGLAGYPGAPGPPG  
PPGPPGTSGHPGSPGSPGYQPPGEPGQAGSPGPPGPPGAIGPSGPAGKDGESGRPGRPG  
ERGLPGPPGIKGPAGIPGFPGMKGHRGFDGRNGEKGETGAPGLKGENGLPGENGAPGPMG



PRGAPGERGRPLPGAAGARGNDGARGSDGQPGPPGPPGTAGFPGSPGAKGEVGPAGSPG  
SNGAPGQRGEPGPQGHAGAQQPPGPPGINGSPPGKGEMGPAGIPGAPGLMGARGPPGPAG  
ANGAPGLRGGAGEPGKNGAKGEPGPRGERGEAGIPGVPGAKGEDGKDGSPGEPGANGLPG  
AAGERGAPGFRGPAGPNGIPGEKGPAGERGAPGPAGPRGAAGEPGRDGVPGGPGMRGMPG  
SPGGPGSDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMGFPGPKNDGAPGKNGERGGPG  
GPGPQGGPPGKNGETGPQGGPPGTPGPGDKGDTGPPGPQGLQGLPGTGGPPGENGKPGEPG  
PKGDAGAPGAPGGKGDAGAPGERGPPGLAGAPGLRGGAGPPGPEGGKAAGPPGPPGAAG  
TPGLQGMPPERGGGLSPGPKGDKGEPGGPGADGVPGKDGRGPTGPIGPPGPAGQPGDKG  
EGGAPGLPGIAGPRGSPGERGETGPPGPAGFPAGPQNGEPGGKGERGAPGEKGEGGPPG  
VAGPPGSGPAGPPGPQGVKGERGSPGGPGAAGFPGARGLPGPPGSNGNP GPPGPSGSPG  
KDGPPGPAGNTGAPGSPGVSGPKGDAGQPGKEKSPGAQGGPPGAPGLGIAGITGARGLAG  
PPGMPGPRGSPGPQGVKGESGKPGANGLSGERGPPGPQGLPLAGTAGEPGRDGNPGSDG  
LPRDGSPPGKGDRGENSGPAGPAGHPGPPGPVGPAGKSGDRGESGPAGPAGAPGPAG  
SRGAPGPQGRGDKGETGERGAAGIKGHRGFPGNPGAPGSPGPAGQQGAIGSPGPAGPRG  
PVGSPGPPGKDGTSHPGP I GPPGPRGNRGERGSEGPSGHPGQGGPPGPPGAPGCCGGV  
GAAA IAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISP DGSRK NPAR  
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>sp|P01024|C03\_HUMAN Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

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VLVSLQSGYLFIQTDKTIYTPGSTVLYRIFTVNHKLLPVGRVMVNINPEGIPVKQDSL  
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SGQREVVAADVWVDKSCVGSVLVVKSGQSEDRQPVPQQMTLKIEGDHGARVVLVAVDK  
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RNEQVEIRAVLYNYRQNQELKVRVELLHNP AFCSLATTKRRHQQTVTIPPKSSLSVPYVI  
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>sp|P12109|C06A1\_HUMAN Collagen alpha-1(VI) chain OS=Homo sapiens GN=COL6A1 PE=1 SV=3  
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NRIALVITDGRSDTQRDTTPLNVLCSPIQVVSVGIKDVDFIPGSDQLNVISCQGLAPS  
QGRPGLSLVKENYAELEDAFLKNVTAQICIDKKCPDYTCPITFSSPADITILLDGSASV  
GSHNFDTKRFAKRLAERFLTAGRTPAHDVRVAVVQYSGTGQQRPERASLQFLQNYTAL  
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VSRKVALG

>sp|P12110|C06A2\_HUMAN Collagen alpha-2(VI) chain OS=Homo sapiens GN=COL6A2 PE=1 SV=4  
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REEGIRLFAVAPNQNLKEQGLRDIASTPHELYRNDYATMLPDSTEIDQDTINRIIKVMKH  
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>sp|P12111|C06A3\_HUMAN Collagen alpha-3(VI) chain OS=Homo sapiens GN=COL6A3 PE=1 SV=5  
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FLYDVVKS LAVGENDFHFALVQFNGNPHTFLLNTYRTKQEVLSHISNMSYIGGTNQTGK  
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ISERV TQLTREELSRLQPV LQPLSPG VGGKRDVVFLIDGSQSAGPEFQYVRTLIERLVD  
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RNIFKRPLGSRIEEGVPQFLVLISSGKSDDEVDDPAVELKQFGVAPFTIARNADQEELVK  
ISLSPEYVFSVSTFRELPSLEQKLLTPITTLTSEIQIKLLASTRYPPPAVESDAADIVFL  
IDSSEGV RPDGFAHIRDFVSRIVRRLNIGPSKVRVGVVQFSNDVFPEFYLKTYRSQAPVL  
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KVDAILNRISQMHVSCSGRSPTVRVSVVANTPSGPVEAFDFDEYQPEMLEKFRNMRSQ  
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TELA FALDTSEGVNQDTFGRMRDVVLSIVNDLTIAESNCPRGARVAVVTYNNEVTTEIRF  
ADSKRKS VLLDKIKNLQVALTSKQQSLETAMSFVARNTFKRVRNGFLMRKVAVFFSNTPT  
RAS PQLR EAVLKLSDAGITPLFLTRQEDRQLINALQINNTAVGHALVLPAGRDLTDFLEN  
VLTCHVCLDICNIDPSCGFGSWRPSFRDRRAAGSDVDIDMAFILD SAETTTLFQFNEMKK  
YIAYLVRQLDMSPDPKASQHFARVAVVQHAPSESVDNASMPPVKVEFSLTDYGSKEKLVD

FLSRGMTQLQGTRALGSAIEYTIENVFESAPNPRDLKIVVLMLTGEVPEQQLEEAQRVIL  
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AAKPVAAPAAVRPPAAAAAKPVATKPEVPRPQAAKPAATKPATTKPMVKMSREVQVFEI  
TENS AKLHWERAEPGPYFYDLTVTSAHDQSLVLKQNLTVTDRVIGGLLAGQTYHVAVVC  
YLRSQVRATYHGSFSTKKSQPPPPQPARSASSSTINLMVSTEPLALTETDICKLPKDEGT  
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>sp|Q8WTW3|COG1\_HUMAN Conserved oligomeric Golgi complex subunit 1 OS=Homo sapiens GN=COG1  
PE=1 SV=1

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LFLDRLQTLTKEGFDSISSSSKELLVSALQELESSTSNSPSNKHIHFEYNMSLFLWSESP  
NDLPDAAWVSANRGQFASSGLSMKAQAISPCVQNFCSALDSKLKVKLDDLLAYLPSSD  
SSLPKDVSPTQAKSSAFDRYADAGTVQEMLRQSVACIKHIVDCIRAEQLSIEEGVQGGQ  
DALNSAKLHSLVLFMARLCQSLGELCPHLKQCILGKSESSEKPAREFRALRKQGKVKQTQEI  
IPTQAKWQEVKEVLLQQSVMGYQVWSSAVVKVLIHGFTQSLLDDAGSVLATATSWDELE  
IQEEAESGSSVTSKIRLPAQPSWYVQSFLFSLCQEIINRVGGHALPKVTLQEMLKSCMVQV  
VAAYEKLSEEKQIKKEGAFVPTQNRALQLLYDLRYLNIVLTAKGDEVKSGRSKPDRIEK  
VTDHLEALIDPFDLDVFTPHLNSNLHRLVQRTSVLFGVLTGTENQLAPRSSTFNSQEPHN  
ILPLASSQIRFGLPLSMTSTRKAKSTRNIETKAQVPPARSTAGDPTVPGSLFRQLVSE  
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>sp|Q9BWP8|COL11\_HUMAN Collectin-11 OS=Homo sapiens GN=COLEC11 PE=1 SV=1

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VGPTGEKGMGDKGQKGSVGRHGKIGPIGSKGEKGDSDIGPPGPNGEPGLPCECSQLRK  
AIGEMDNQVSQLTSELKFIKNAVAGVRETESKIYLLVKEEKRYADAQLSCQGRGGTSLMP  
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>sp|Q5KU26|COL12\_HUMAN Collectin-12 OS=Homo sapiens GN=COLEC12 PE=1 SV=3

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QLREITEKTSKNKDTLEKLQASGDALVDRQSQLKETLENNSFLITTVNKTQLAYNGYVTN  
LQQDTSVLQGNLQNMYSHNIVIMNLNNLNTQVQQRNLITNLQRSVDDTSQAIQRIKND  
FQNLQQVFLQAKKDDTWLKEKVQSLQTLAANNSALAKANDTLEDMNSQLNSFTGQMENI  
TTISQANEQNLKDLQDLHKDAENRTAIKFNQLEERFQLFETDIVNIIISNISYTAHHLRTL  
TSNLNEVRTTCTDTLTKHTDDLTSLNNTLANIRLDSVSLRMQQDLMSRLDTEVANLSVI  
MEEMKLVDSKHGQLIKNFTILQGPPGPRGPRGDRGSQGPPTGNKGQKGEKGEPPGPPG  
AGERGPIGPAGPPGERGGKSGKSGSQGPKGSRGSPGKPGPQGSSGDPGPPGPPGKEGLPGP  
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APEDNGCPPHWNFTDKCYFVSVEKEIFEDAKLFCEDKSSHLVFINTREEQQWIKKQMVG  
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>sp|P04118|COL\_HUMAN Colipase OS=Homo sapiens GN=CLPS PE=1 SV=2  
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>sp|Q99708|COM1\_HUMAN DNA endonuclease RBBP8 OS=Homo sapiens GN=RBBP8 PE=1 SV=2  
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>sp|Q8N668|COMD1\_HUMAN COMM domain-containing protein 1 OS=Homo sapiens GN=COMMD1 PE=1  
SV=1  
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SIASADMDFNQLEAFLTAQTKKQGGITSDQAAVISKFWKSHKTKIRESLMNQSRWNSGLR  
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SISTLISQPN

>sp|Q99807|COQ7\_HUMAN 5-demethoxyubiquinone hydroxylase, mitochondrial OS=Homo sapiens  
GN=COQ7 PE=1 SV=3

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>sp|Q96D53|COQ8B\_HUMAN Atypical kinase COQ8B, mitochondrial OS=Homo sapiens GN=COQ8B PE=1  
SV=2

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QSADFMPRWQMLRVLEEELGRDWQAKVASLEEVFAAAASIGQVHQGLLRDGTAVAVKIQY  
PGIAQSIQSDVQNLAVLKMSAALPAGLFAEQSLQALQQELAWECDYRREAAQAQNFRL  
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VDPS

>sp|Q8N8Q8|COX18\_HUMAN Mitochondrial inner membrane protein COX18 OS=Homo sapiens  
GN=COX18 PE=2 SV=1

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TIARHLNQEVAVRANQLGWSKRDARLTLYLKNMRRLISELYVRDNCHPFKATVLVWIQLPM  
WIFMSFALRNLSGTAAHSEGFVQEQLATGGILWFPDLTAPDSTWILPISVGVINLLIVE  
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>sp|P09669|COX6C\_HUMAN Cytochrome c oxidase subunit 6C OS=Homo sapiens GN=COX6C PE=1 SV=2  
MAPEVLPKPRMRGLLARRLRNHMAVAFVLSLGVAALYKFRVADQRKKAYADFYRNYDVMK  
DFEEMRKAGIFQSVK

>sp|Q96MC5|CP045\_HUMAN Uncharacterized protein C16orf45 OS=Homo sapiens GN=C16orf45 PE=1  
SV=1

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>sp|Q8NHV5|CP052\_HUMAN Uncharacterized protein C16orf52 OS=Homo sapiens GN=C16orf52 PE=2  
SV=3

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>sp|Q7Z3J2|CP062\_HUMAN UPF0505 protein C16orf62 OS=Homo sapiens GN=C16orf62 PE=1 SV=2

MAVFPWHSRNRNYKAEFASCRLEAVPLEFGDYHPLKPITVTESKTKKVNKRGSTSTSSS  
SSSSVVDPLSSVLDGTDPLSMFAATADPAALAAAMDSSRRKRDRDDNSVVGSDFEPWTK  
RGEILARYTTTEKLSINLFMGSEKGKAGTATLAMSEKVRTRLEELDDFEEGSQKELLNLT  
QQDYVNRIEELNQSLKDAWASDQKVKALKIVIQCSKLLSDTSVIQFYPSKFVLITDILDT  
FGKLVYERIFSMCVDSRSVLPDHFSPENANDTAKETCLNWFVKIASIRELIPRFYVEASI  
LKC�KFLSKTGISECLPRLTCMIRGIGDPLVSVYARAYLCRVGMEVAPHLKETLNKNFFD  
FLLTFKQIHGDTVQNQLVVQGVELPSYLPLYPAMDWIFQCISYHAPEALLTEMMERCKK  
LGNNALLNSVMSAFRAEFIATRSMDFIGMIKECDESGFPKHLFRSLGLNLALADPPES  
DRLQILNEAWKVITKLNPQDYINCAEVWVEYTCKHFTKREVNTVLADVIKHMTPDRAFE  
DSYPQLQLIIKKVIAHFHDFSVLFSVEKFLPFLDMFQKESVRVEVCKCIMDAFIKHQQEP  
TKDPVILNALLHVCKTMHDSVNALTLEDEKRMSYLINGFIKMVSFGRDFEQQLSFYVES  
RSMFCNLEPVLVQLIHSVNRLAMETRKVMKGNHSRKTAAFVRACVAYCFITIPSLAGIFT  
RLNLYLHSGQVALANQCLSQADAFFKAAISLVPEVPKMINIDGMRPSESFLLEFLCNFF  
STLLIVPDHPEHGVFLVRELLNVIQDYTWEDNSDEKIRIYTCVLHLLSAMSQETYLYHI  
DKVDSNDSLYGGDSKFLAENNKLCETVMAQILEHLKTLAKDEALKRQSSGLSFFNSILA  
HGLDRNNKLNQLSVNLWHLAQRHGCADTRTMVKTLEYIKKQSKQPDMTHTLALRLPLQ  
TRT

>sp|Q96GX8|CP074\_HUMAN Uncharacterized protein C16orf74 OS=Homo sapiens GN=C16orf74 PE=1  
SV=2

MGLKMSCLKGFQMCVSSSSSSSHDEAPVLNDKHLDPDIIITPPTPTGMMLPRDLGSTVWL  
DETGSCPDDGEIDPEA

>sp|H3BN30|CP097\_HUMAN Uncharacterized protein C16orf97 OS=Homo sapiens GN=C16orf97 PE=2  
SV=1

MKKWKSRLFPRPPNWLSGKYLRPLSSAMFLIDFCLCVPWTTFPQCKILMVEFIVGFYDFC  
LALEVQYRTSKLFLCGQPSRRSLGIQQALKLACLSPTLLESSSCVDPPGNTAGSRMPS  
SSNCIK

>sp|P05108|CP11A\_HUMAN Cholesterol side-chain cleavage enzyme, mitochondrial OS=Homo  
sapiens GN=CYP11A1 PE=1 SV=2

MLAKGLPPRSVLVKGCTFLSAPREGLGRLRVPTGEGAGISTRSPRPFNEIPSPGDNGWL  
NLYHFWRETGTHKVHLHHVQNFQKYGPIYREKLGNVESVYVIDPEDVALLFKSEGNPER  
FLIPPVWAYHYQYQRPIGVLLKKSAAWKDRVALNQEVMAPEATKNFLPLLDVSRDFVS  
VLHRRIKKAGSGNYSGDISDDLFRFAFESITNVIFGERQGMLEEVNPEAQRFIDAIYQM  
FHTSVPMNLNPPDLFRLFRKTWKDHVAAWDVIFSKADIYTNFYWELRQKGSVHHDYRG  
ILYRLLGDSKMSFEDIKANVTEMLAGGVDTTSMTLQWHL YEMARNLKVQDMLRAEVLAAAR  
HQAQGD MATMLQLVPLLKASIKETLRLHPISVTLQRYLVNDLVLRDYMIPAKTLVQVAIY  
ALGREPTFFFDPENFDPTRWLSKDKNITYFRNLGFGWGVQRCLGRRIAELEM TIFLINML  
ENFRVEIQHLSDVGTTFNLILMPEKPISTFWPFNQEATQQ

>sp|P08686|CP21A\_HUMAN Steroid 21-hydroxylase OS=Homo sapiens GN=CYP21A2 PE=1 SV=1

MLLLGLLLLPLLAGARLLWNWKLRLSLHLPPLAPGFLHLLQPDLP IYLLGLTQKFGPIYR  
LHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPTYKLVSKNYPDLSLGDYSLLWKAHK  
KLTRSALLLGIRDSMEPVVEQLTQEFCEMRAPGTPVAIEEEFSLLTCSIICYLTFGDK  
IKDDNLMPAYYKCIQEVLTWHSWSIQIVDVIPFLRFFPNPGLRRLKQAI EKRDHIVEMQ  
LRQHKE SLVAGQWRDMMDYMLQGVAQPSMEEGSGQLLEGHVHMAAVDLLIGGTETTANTL  
SWAVVFLHHPEIQRLQEELDHELGP GASSSRVPYKDRARLPLLNATIAEVLRLRPVVP  
LALPHRTRPSSISGYDIEPTV IIPNLQGAHLDET VWERPHEFWPDRFLEPGKNSRALA  
FGCGARVCLGEPLARLELFVVLTRLLQAFTLLPSGDALPSLQPLPHCSVILKMQPFQVRL  
QPRGMGAHSPGQNNQ

>sp|O15528|CP27B\_HUMAN 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial OS=Homo  
sapiens GN=CYP27B1 PE=1 SV=1

MTQTLKYASRVFHRVRWAPELGASLG YREYHSARRSLADIPGPSTPSFLAELFCKGGLSR  
LHELQVQGA AHFGPVWLASFGTVRTVYVAAPALVEELLRQEGPRPERCSFSPWTEHRRCR  
QRACGLLTAE GEEWQRLRSLLAPLLLRPQAAARYAGTLNNVCDLVRRLRRQRGRGTGPP  
ALVRDVAGEFYKFGLEGIAAVLLGSRLGCLEAQVPPDTETTFIRAVGSVFVSTLLTMAMPH  
WLRHLVPGPWGRLCRDWDQMFAFAQRHVERREAEAA MRNGGQPEKDLESGAHLTHFLFRE  
ELPAQSILGNVTELLAGVDTVSN TSWALYELSRHPEVQTALHSEITAALSPGSSAYPS  
ATVLSQLPLLKAVKEVLR LYPVVP GNSRVPDKDIHVGDYIIPKNTLVTLCHYATSRDPA  
QFPEPNSFRPARWLGE GPTPHPFASLPFGFGKRSCMRRLAELELQMALAQILTHFEVQP  
EPGAAPVRPKTRTVLPERSINLQFLDR

>sp|P11509|CP2A6\_HUMAN Cytochrome P450 2A6 OS=Homo sapiens GN=CYP2A6 PE=1 SV=3

MLASGMLLVALLVCLTVMVLM SVWQQRKSKGKLPPGPTPLPFIGNYLQLNTEQMYNSLMK  
ISERYGPVFTIHLGPRRVVVL CGHDAVREALVDQAE EFSGRGEQATFDWVFKGYGVVFSN  
GERAKQLRRFSIATLRDFGVGKRGIEERI QEEAGFLIDALRG TGGANIDPTFFLSRTVSN  
VISSIVGDRFDYKDEFLSLLRMMLGIFQFTSTSTGQLYEMFSSVMKHLPGPQQQAFQL

LQGLEDFIAKKVEHNQRTLDPNSPRDFIDSFLIRMQEEKNPNTTEFYLNLMVMTLNLFI  
GGTETVSTTLRYGFLLLMKHPEVEAKVHEEIDRVIGKNRQPKFEDRAKMPYMEAVIHEIQ  
RFGDVIIPMSLARRVKKDTKFRDFFLPKGTEVFPMLGSVLRDPSFFSNPQDFNPQHFLNEK  
GQFKKSDAFVPFISIGKRNCFGEGLARMELFLFFTVMQNFRLKSSQSPKIDIVSPKHVGF  
ATIPRNYTMSFLPR

>sp|P11712|CP2C9\_HUMAN Cytochrome P450 2C9 OS=Homo sapiens GN=CYP2C9 PE=1 SV=3

MDSLVLVLCLSCLLLLSLWRQSSGRGLPPGPTPLPVIGNILQIGIKDISKSLTNLSKV  
YGPVFTLYFGLKPIVVLHGVEAVKEALIDLGEFSGRGIFPLAERANRGFGIVFSNGKKW  
KEIRRFSLMTRLNFMGKRSIEDRVQEEARCLVEELRKTKASPCDPTFILGCAPCNVICS  
IIFHKRFDYKDQQLNLMEKLNENIKILSSPWIQICNNFSPIIDYFPGTHNKLKNVAFM  
KSYILEKVKEHQESMDMNNPQDFIDCFLMKMEKEKHNPSEFTIESLENTAVDLFGAGTE  
TTSTTLRYALLLLKHPEVTAKVQEEIERVIGRNRSPCMQDRSHMPYTDVVHEVQRYID  
LLPTSLPHAVTCDIKFRNYLIPKGTTLISLTSVLHDNKEFPNPEMFDPHHFLDEGGNFK  
KSKYFMPFSAGKRICVGEALAGMELFLFLTSILQNFNLKSLVDPKNLDTTPVVNGFASVP  
PFYQLCFIPV

>sp|Q8NE35|CPEB3\_HUMAN Cytoplasmic polyadenylation element-binding protein 3 OS=Homo sapiens GN=CPEB3 PE=1 SV=2

MQDDLMDKSKTQPQPQQQQRQQQPQPESSVSEAPSTPLSSETPKPEENSAVPALSPAA  
APPAPNGPDKMQMESPLLGLSFHQPPQPPPPQEPAPGASLSPSFGSTWSTGTTNAVE  
DSFFQGITPVNGTMLFQNFPHHVPVFGGTFSPQIGLAQTQHHQPPPPAPAPQPAQPAQ  
PPQAQPPQRRSPASPSQAPYAQRSAAAAYGHQPIMTSKPSSSSAVAAAAAAAASSASS  
SWNTHQSVNAAWSAPSNPWGGLQAGRDPRAVGVGVGVGVPSPLNPISPLKKPFSSNV  
IAPPKFPRAAPLTSKSWMEDNAFRDNGNNLLPFQDRSRPYDTFNLHSLNSLMDMIRTD  
HEPLKGKHYPSPGPPMSFADIMWRNHFAGRMGINFHHPGTDNIMALNNAFLDDSHGDQAL  
SSGLSSPTRCQNGERVERYSRKVFVGGGLPPDIDEDEITASFRFGLVVDWPHKAESKSY  
FPPKGYAFLLFQEESVQALIDACLEEDGKLYLCVSSPTIKDKPVQIRPWNLSDSDFVMD  
GSQPLDPRKTI FVGGVPRPLRAVELAMIMDRLYGGVCYAGIDTPELKYPKGAGRVAFSN  
QQSYIAAISARFVQLQHNDIDKRVEVKPYVLDDQMCDECQGTRCGGKFAPFFCANVTCLQ  
YYCEYCWASIHSRAGREFHKPLVKEGGDRPRHVPFRWS

>sp|Q8IZJ3|CPMD8\_HUMAN C3 and PZP-like alpha-2-macroglobulin domain-containing protein 8 OS=Homo sapiens GN=CPAMD8 PE=1 SV=2

MSGALLWPLLPLLLLLSARDGVRAAQPAQGYLIAAPSVFRAGVEEVISVTIFNSPREV  
TVQAQLVAQGEPPVVSQGAILDKGTIKLVPTGLRGQALLKVWGRGWQAEEGPLFHNQTS  
VTVDGRGASVFIQTDKPVYRQHRVLISIFTVSPNLRPVNEKLEAYILDPRGSRMIEWRH  
LKPFCGKITNMSFPLSDQPVLGEWFIFVEMQGHAYNKSFEVQKYVLPKFELLIDPPRYIQ  
DLDACETGTVRARYTFGKPVAGALMINMTVNGVGYYSHEVGRPVLRRTTKILGSRDFDICV  
RDMIPADVPEHFRGRVSIWAMVTSVDGSQQVAFDDSTPVQRQLVDIRYKSDTRKQFKPGL  
AYVGKVELSYPDGSPAEGVTVQIKAELTPKDNIYTSEVVSQRGLVGFEIPSIPTSAQHVV  
LETKVMALNGKPVGAQYLPYSLGWSYSPSQCYLQLQPPSHPLQVGEEAYFSVKSTCPC  
NFTLYYEVAARGNIVLSGQQAHTTQQRSKRAAPALEKPIRLTHLSETEPPPAPEAEVDV  
CVTSLHLAVTPSMVPLGRLLVFYVRENGEGVADSLQFAVETFFENQVSVTYSANETQPGE  
VVDLRIRAARGSCVCVAAVDKSVYLLRSGFRLTPAQVFQELEDYDVSDSFGVSREDGPFW  
WAGLTAQRRRRSSVFPWPWGITKDSGFAFTETGLVVMTRVSLNHRQDGGLYTDEAVPAF  
QPHTGSLVAVAPSRHPPRTEKRRKRTFFPETWIWHCLNISDPSGEGTSLVKVPDSITSWVG



EAVLSTSQGLGIAEPSLLKTFKPFVDFMLPALIIRGEQVKIPLSVNYMGTCAEVYMK  
LSVPKGIQFVGHPGKRHVTKKMCVAPGEAEPIWVVLFSFDLGLNNITAKALAYGDTNCCR  
DGRSSKHPEENHADRVPVIGVDHVRSSVMVEAEGVPRAYTYSAFFCPSERVHISTPNKYE  
FQYVQRPLRLTRFDVAVRAHNDARVALSSGPQDTAGMIEIVLGGHQNTRSWISTSKMGEP  
VASAHTAKILSWDEFRTFWISWRGGLIQVGHGPEPSNESVIVAWTLPRPPEVQFIGFSTG  
WGSMEGFRIWRKMEVDESYSSEAFTLGVPHGAIPGSEATASIIGDVMGPTLNHLNLLRL  
PFGCGEQNMHIFAPNVFVLKYLQKTQQLSPEVERETTDYLVQGYQRQLTYKRQDGSYSAF  
GERDASGSMWLTAFVLKSAFAQRSFIIVDPRELAAAKSWIIQQQQADGSFLAVGRVLNKD  
IQGGIHGTVPLTAYVVVALLETGTASEEERGSTDKARHFLESAAPLAMPYSCALTYYAL  
TLLRSPAAPALRKLRLSLAIMRDGVTHWSLSNSWDVDKGTFLSFSDRVSQSVVSAEEMT  
AYALLTYTLLGDVAAALPVVKWLSQQRNALGGFSSTQDTCVALQALAEYAILSYAGGINL  
TVSLASTNLNDYQETFELHRTNQKVLQTAAIPSLPTGLFVSAKGDGCCLMQIDVTYNVPDP  
VAKPAFQLLVSLQEPEAQGRPPMPASAAEGSRGDWPPADDDPAADQHHQEYKVMLEVC  
TRWLHAGSSNMAVLEVPLLSGFRADIESLEQLLLDKHMGMKRYEVAGRRLVLYFDEIPSR  
CLTCVRFRALRECVVGRTSALPVSVYDYEPFAFEATRFYNVSTHSPLARELCAGPACNEV  
ERAPARGPGWFPGESGPAVAPEEGAAIARCGCDHDCGAQGNPVCSDGVVYASACRLREA  
ACRQAAPLEPAPPSCCALEQRLPASSSSTYGDDLASVAPGPLQQDVKLNGAGLEVEDSDP  
EPEGEAEDRVTAGPRPPVSSGNLESSTQSASPFHRWGQTPAPQRHSGRVVGAHRPGLLSP  
VFVYSPAFQSGGEEGLWMSNTCTLR

>sp|Q9P2I0|CPSF2\_HUMAN Cleavage and polyadenylation specificity factor subunit 2 OS=Homo  
sapiens GN=CPSF2 PE=1 SV=2

MTSIIKLTTLSGVQEEALCYLLQVDEFRLDCGWDEHFSMDIIDSLRKHVHQIDAVLL  
SHPDPLHLGALPYAVGKLGLENCAIYATIPVYKMGQMFYDLYQSRHNTEDFTLFTLDDVD  
AAFDKIQQLKFSQIVNLKGKGHGLSITPLPAGHMIGGTIWKIVKDGEIIIYAVDFNHKR  
EIHNGCSLEMLSRPSLLITDSFNATYVQPRRKQRDEQLLTNVLETLRGDGNVLIIVDTA  
GRVLELAQLLDQIWRTKDAGLGVYSLALLNNVSYNVVEFSKQVWMSDKLMRCFEDKRN  
NPFQFRHLSLCHGLSDLARVSPKVVLASQPDLECGFSRDLFIQWCQDPKNSIILTYRTT  
PGTLARFLIDNPSEKITEIELRKRKLEGELEEYLEKEKLKKEAAKKLEQSKEADIDSS  
DESDIEEDIDQPSAHKTKHDLMMKGESRKGSSFFKQAKKSYMPFPAPEERIKWDEYGEII  
KPEDFLVPELQATEEEKSKLESGLTNGDEPMDQDLSDVPTKCISTTESIEIKARVTYIDY  
EGRSDGDSIKKIINQMKPRLIIIVHGPPEASQDLAECCRAFGGKDIKVMPKLHETVDAT  
SETHIYQVRLKDSLVSLLQFCKAKDAELAWIDGVLDNRVSKVDTGVILEEGELKDDGEDS  
EMQVEAPSDSSVIAQQKAMKSLFGDDEKETGESEIIPTEPLPPHEVPGHQSVFMNEPR  
LSDFKQVLLREGIAEFVGGVLCNNQVAVRRRTETGRIGLEGCLCQDFYRIRDLLYEQYA  
IV

>sp|Q9UKF6|CPSF3\_HUMAN Cleavage and polyadenylation specificity factor subunit 3 OS=Homo  
sapiens GN=CPSF3 PE=1 SV=1

MSAIPAEESDQLLIRPLGAGQEVGRSCIILEFKGRKIMLDCGIHPGLEGMDALPYIDLID  
PAEIDLLLISHFHLDHGALPWLQKTSFKGRTFMTHATKAIYRWLLSDYVKVSNISADD  
MLYTETDLEESMDKIETINFHEVKEVAGIKFWCYHAGHVLGAAMFMIEIAGVKLLYTGF  
SRQEDRHLMAAEIPNIKPDILIIESTYGTHIHEKREEREARFCNTVHDIVNRGGRGLIPV  
FALGRAQELLLILDEYWNHPELHDIPIYYASSLAKKMAVYQTYVNAMNDKIRKQININ  
NPFVFKHISNLKSMDFDDIGPSVVMASPGMMQSGLSRELFEWCTDKRNGVIIAGYCV  
GTLAKHIMSEPEEITMSGQKLPLKMSVDYISFSAHTDYQQTSEFIRALKPPHVILVHGE

QNEMARLKAALIREYEDNDEVHIEVHNPRNTEAVTLNFRGEKLAKVMGFLADKKPEQGQR  
VSGILVKRNFNYHILSPCDLSNYTDLAMSTVKQTQAIPYTGPFNLLCYQLQKLTGDVEEL  
EIQEKPAKLVFNITVIQEPGMVVLEWLANPNDMYADTVTTVILEVQSNPKIRKGAVQK  
VSKKLEMHVYSKRLEIMLQDIFGEDCVSVKDDSI LSVTVDGKTANLNLETRTVECEESE  
DDESLREMVELAAQRLYEALTPVH

>sp|O95639|CPSF4\_HUMAN Cleavage and polyadenylation specificity factor subunit 4 OS=Homo sapiens GN=CPSF4 PE=1 SV=1

MQEIIASVDHIKFDLEIAVEQQQLGAQPLPFPMDKSGAAVCEFFLKAACGKGMCPFRHI  
SGEKTIVCKHWRGLCKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECPFLHIDPESK  
IKDCPWYDRGFCKHGPLCRHRHTRRVICVNYLVGFCPEGPSCKFMHPRFELPMGTTEQPP  
LPQQTQPPAKQSNNPPLQRSSSLIQLTSQNSSPNQQRTPQVIGVMQSQNSSAGNRGPRPL  
EQVTCYKCGEKGHYANRCTKGHLAFLSGQ

>sp|O43809|CPSF5\_HUMAN Cleavage and polyadenylation specificity factor subunit 5 OS=Homo sapiens GN=NUDT21 PE=1 SV=1

MSVVPNRSQTGWPRGVTQFGNKYIQQTKPLTLERTINLYPLTNYTFGTKEPLYEKDSSV  
AARFQRMREEFDKIGMRRTVEGLIVHEHRLPHVLLLQLGTTFFKLPGGELNPGEDEVEG  
LKRLMTEILGRQDGLQDWVIDDCIGNWWRPNFEPQYPYIPAHITKPKEHKKLFLVQLQ  
EKALFAVPKNYKLVAAPLFELYDNAPGYGPIISSLPQLLSRFNFIYN

>sp|Q92523|CPT1B\_HUMAN Carnitine O-palmitoyltransferase 1, muscle isoform OS=Homo sapiens GN=CPT1B PE=1 SV=2

MAEAHQAVAFQFTVTPDGVDFRLSREALKHVYLSGINSWKKRLIRIKNGILRGVYPGSPT  
SWLVVIMATVGSSFCNVDISLGLVSCIQRCLPQCGPYQTPQTRALLSMAIFSTGVWVTG  
IFFFRQTLKLLLCYHGWFMFEMHGKTSNLTRIWAMCIRLLSSRHPLYSFQTSPLKLPVPR  
VSATIQRYLESVRPLLDDEEYYRMELLAKEFQDKTAPRLQKYLVLKSWWASNYVSDWWEE  
YIYLRGRSPLMVNSNYVMDVLVIKNTDVQAARLGNIHAMIMYRRKLDREEIKPVMALG  
IVPMCSYQMERMFNTTRIPGKDTDVLQHLSDSRHVAVYHKGRFFKLWLYEGARLLKPQDL  
EMQFQRILDDPSPPPQGEKLAALTAGGRVEWAQARQAFFSSGKNKAALAIERAAFFVA  
LDEESYSYDPEDEASLSLYGKALLHGNCYNRWFDKSFTLISFKNGQLGLNAEHAWADAPI  
IGHLWEFVLGTD SFHLGYTETGHCLGKPNPALAPPTRLQWDIPKQCQAVIESSYQVAKAL  
ADDVELYCFQFLPFGKGLIKKCRTPDAFVQIALQLAHFRDRGKFCLTYEASMTRMFREG  
RTETVRSCSTESTAFVQAMMEGSHKADLRDLFQKAAKKHQNMRYLAMTGAGIDRHLFCL  
YLVSKYLGVSSPFLAEVLSEPWRLSTSQIPQSQIRMFDPHQHPNHLGAGGGFGPVADDGY  
GVSYMIAGENTIFFHISSKFSSSETNAQRFGNHIRKALLDIADLFQVPKAYS

>sp|Q8N7U9|CQ054\_HUMAN Putative uncharacterized protein encoded by LINC00469 OS=Homo sapiens GN=LINC00469 PE=5 SV=1

MTSSAPTLPDVTIRNVSRIHQMSLMGKGEPWLCRLQLEPLLQAMEEQQLGNLEARWEVE  
KHGNEVSGSTSREVWEDADFICPVLKQCTNPKNLENKNIHQAKECEKSPFLSLSPHQQWK  
PGLPRRNDALPTSLCLCCSEN

>sp|Q53H64|CQ073\_HUMAN Putative uncharacterized protein encoded by LINC00483 OS=Homo sapiens GN=LINC00483 PE=5 SV=1

MGRSPFKPRNKVFGFSYPWCRSYQFPKRKAWPPSRVWLACCASLASPPKGTIPSGEY  
YRPAPSSSGDSLRRRESGALLQYPLSLASPCANHATRCSLLFPIYKIKMTLLYLTGLARTH  
CCYLADRCAEAVESAFYLVGSLCINARGAAHLTD

>sp|Q8N4C9|CQ078\_HUMAN Uncharacterized protein C17orf78 OS=Homo sapiens GN=C17orf78 PE=2 SV=2

MDTILVFSLIIASYDANKKDLRDSSCRLEQLPGIFPKDVRSIRELQMETHETETKRTTFI  
QNRTIATLQCLGSDSKVKVNLVYLERRPKVKHILKNLRITIAAPRRNSSASSSCHLIPTSK  
FQTGSLLKGKAFLPGISQCKVLGASSETFPTTAPSITPGNKEGEKTTSTDTDENLEKRQK  
WSIVVKILIAVTLLLSGVAIIIVFVIFEVPCPYQCLGARKLCQCQWLWRWQKKGGQPPGTA  
ESKPDSQPQKVGQDAANSSNPKKAAEITVIHQTYF

>sp|Q86X59|CQ082\_HUMAN Putative uncharacterized protein C17orf82 OS=Homo sapiens GN=C17orf82 PE=1 SV=2

MGRPLEGQPLRALDLYPEAFLRSKDPKSSPASSPSFAVLGPEVRSTGGQAGSRRRPSA  
PCSQDRAAAEGAPALLGGSPSSSGSPGHPPGSFAFGVEAGCRALNVSEHARGGFALGLPFGL  
SGGAYLFLLLDGAGDPKPTPEAPISSADGRAWFPESSWQLPQLPAGSTSGSEPRARPGL  
GPRQLLTGPRDGAAGQGPGRLTARLGREREIDCGPRQAGHGGTATDTGRAGSGARHRPP  
RDRGTPGLRTH

>sp|Q96KH6|CR012\_HUMAN Uncharacterized protein C18orf12 OS=Homo sapiens GN=C18orf12 PE=2 SV=1

MERIVHCEGIVSWDNLRYEYNTMASTFGPKDILVLPLATDSFFVIGKVTSSLWASVSSFL  
NNKKIPHGAWLLSPCLHFLQALLVCAQVYLPVRSLLCICTCPPFVCSLSDTGLPLFPF  
TASLNPAMCHNGVELSFMMWRDLTLPFPSHQANLASSSTHGISQNAESGREIEHQG

>sp|Q7Z4B0|CR020\_HUMAN Putative uncharacterized protein encoded by LINC00305 OS=Homo sapiens GN=LINC00305 PE=5 SV=1

MINLHRLCIHVVATLLSTLLSLISVAISATCKDEKKGQEMETGQQPSGLSATLTKVKCA  
KRQKTIVRVRFYMLSMKNKACRKNLSKGYNQRPESKEESHMVVKEKRKGDH

>sp|P05813|CRBA1\_HUMAN Beta-crystallin A3 OS=Homo sapiens GN=CRYBA1 PE=1 SV=4

METQAEQQELETLPPTKMAQTNPPTGSLGPWKITIYDQENFQGKRMEFTSSCPNVSESRF  
DNVRSCLKVESGAWIGYEHTSFCGQQFILERGEYPRWDAWGSNAYHIERLMSFRPICSAN  
HKESKMTIFEKENFIGRQWEISDDYPSLQAMGWFNNEVGSMKIQSGAWVCYQYPGYRGYQ  
YILECDHHGGDYKHWREWGSHAQTSQIQSIRRIQQ

>sp|P53672|CRBA2\_HUMAN Beta-crystallin A2 OS=Homo sapiens GN=CRYBA2 PE=1 SV=3

MSSAPAPGPAPASLTLDWDEEDFQGRRCRLLSDCANVCERGGLPRVRSVKVENGWVWAFEY  
PDFQGQQFILEKGDYPRWSAWGSSSHNSNQLLSFRPVLCAHNDSRVTLFEGDNFQGCK  
FDLDDYPSLPSMGWASKDVGSLKVSSGAWVAYQYPGYRGYQYVLERDRHSGEFCTYSEL  
GTQAHTGQLQSIRRVQH

>sp|P43320|CRBB2\_HUMAN Beta-crystallin B2 OS=Homo sapiens GN=CRYBB2 PE=1 SV=2

MASDHQTQAGKPSLNPKIIIFEQENFQGHSHLNGPCPNLKETGVEKAGSVLVQAGPWV  
GYEQANCKGEQFVFEKGEYPRWDSWTSSRRDSSLRPIKVDSQEHKIIILYENPNFTGK  
KMEIIDDDVPSFHAHGYQEKVSSVRVQSGTWVGYYQYPGYRGLQYLLEKGDYKSSDFGAP  
HPQVQSVRRIRDMQWHQRGAFHPSN

>sp|Q6WN34|CRDL2\_HUMAN Chordin-like protein 2 OS=Homo sapiens GN=CHRD2 PE=1 SV=1

MVPEVRVLSLLGLALLWFPLDSHARARPDMFCLFHGKRYSPGESWHPYLEPQGLMYCLR  
CTCSEGAHVSCYRLHCPPVHCPQVTEPQQCCPKCPEPHTPSGLRAPPKSCQHNGTMYQH  
GEIFSAHELFP SRLPNQCVLCSTEGQIYCGLTTCPEPGCAPLPLPDSCCQACKDEASE  
QSDEEDSVQSLHGVRHPQDPCSSDAGRKRGPPTAPTGLSAPLSFIPRHRPKGAGSTTV  
KIVLKEKHKKACVHGKTYSHGEVWHPAFRAFGPLPCILCTCEDGRQDCQRVTCPTTEYPC

RHPEKVAGKCKICPEDKADPGHSEISSTRCPKAPGRVLVHTSVSPSPDNLRRFALEHEA  
SDLVEIYLWKLVKGIFHLTQIKKVRKQDFQKEAQHFRLLAGPHEGHWNVFLAQTLELKVT  
ASPDKVTKT

>sp|P16220|CREB1\_HUMAN Cyclic AMP-responsive element-binding protein 1 OS=Homo sapiens  
GN=CREB1 PE=1 SV=2

MTMESGAENQQSGDAAVTEAENQQMTVQAQPQIATLAQVSMPPAAHATSSAPTPTLVQLPN  
GQTVQVHGVIQAAQPSVIQSPQVQTVQSSCKDLKRLFSGTQISTIAESEDSESVDVSD  
SQKRREILSRPSPYRKILNDLSSDAPGVPRIEEEKSEEETSAPAITTVPTPIYQTSSG  
QYIAITQGGAIQLANNGTDGVQGLQTLTMTNAAATQPGTTILQYAQTDDGQILVPSNQV  
VVQAASGDVQTYQIRTAPTSTIAPGVVMASSPALPTQPAEEAARKREVRLMKNREAAREC  
RRKKKEYVKLENRVAVLENQNKTLIEELKALKDLYCHKSD

>sp|Q494W8|CRFM7\_HUMAN CHRNA7-FAM7A fusion protein OS=Homo sapiens GN=CHRFAM7A PE=2 SV=1

MQKYCIYQHFQFQLLIQHLWIAANCDIADERFDATFHTNVLVNSSGHCQYLPPGIFKSSC  
YIDVRWFPFDVQHCKLKFGSWSYGGWSDLQMQEADISGYIPNGEWDLVGIPGKRSEFY  
ECCKEPYPDVTFVTMRRTLYGLNLLIPCVLISALALLVFLLPADSGEKISLGITVLL  
SLTVFMLLVAEIMPATSDSVPLIAQYFASTMIIVGLSVVTVIVLQYHHHDPDGGKMPKW  
TRVILLNWCWFLMRKPGEDKVRPACQHKQRRCSLASVEMSAVAPPPASNGNLLYIGFR  
GLDGVHCVPTPDSGVVCGRMACSPHDEHLLHGGQPPEGDPDLAKILEEVRYIANRFRCQ  
DESEAVCSEWKFAACVVDRLCLMAFSVFTIICTIGILMSAPNFVEAVSKDFA

>sp|P34998|CRFR1\_HUMAN Corticotropin-releasing factor receptor 1 OS=Homo sapiens GN=CRHR1  
PE=1 SV=1

MGGHPQLRLVKALLLGLNPVSASLQDQHCESSLASNISGLQCNASVDLIGTCWPRSPA  
GQLVVRPCPAFFYGVRYNTTNGYRECLANGSWAARVNYSECQEILNEEKSKSVHYHVAV  
IINYLGHCISLVALLVAFVLFLRLRPGCTHWGDQADGALEVGAPWSGAPFQVRRSIRCLR  
NIIHWNLISAFILRNATWFVVLQTMSPVHQSNVGCRLVTAAYNYFHVTNFFWMFGEGC  
YLHTAIVLTYSTDRLRKWMFICIGWGVFPPIIIVAWAIGKLYDNEKCFGKRPGVYTDYI  
YQGPMLVLINIFLNFIVRILMTKLRASTTSETIQYRKAVKATLVLLPLLGITYMLFF  
VNPGEDEVSRVFIYFNSFLESFQGFVSVFYCFLNSEVRSAIRKRWHRWQDKHSIRARV  
ARAMSIPTSPTRVSFHSIKQSTAV

>sp|Q9H0B8|CRLD2\_HUMAN Cysteine-rich secretory protein LCCL domain-containing 2 OS=Homo  
sapiens GN=CRISPLD2 PE=2 SV=1

MSCVLGGVIPLELLFLVCGSQGYLLPNVTLLELLSKYQHNEHSRVRRAIPREDKEEIL  
MLHNKLRGQVQPQASNMEYMTWDELEKSAAAWASQCIWEHGPTSLVLSIGQNLGAHWGR  
YRSPGFHVQSWYDEVKDYTYPPYSECNPWCPCSCGPMCTHYTQIVWATTNKIGCAVNTC  
RKMTVWGEVWENAVYFVCNYSKPGNWIGEAPYKNGRPCSECPPSYGGSCRNNLCYREETY  
TPKPETDEMNEVETAPIEENHVWLQPRVMRPTKPKKTSVANYMTQVVRCDTKMKDRCKG  
STCNRYQCPAGCLNHKAKIFGTIFYESSSSICRAAIHYGILDDKGGGLVDITRNGKVPFFV  
KSERHGVQSLSKYKPSSSMVSKVKVQDLDCYTTVAQLCPFEKPATHCPRIHCPAHCKDE  
PSYWAPVFGTNIYADTSSICKTAVHAGVISNESGGDVPVDPKKKTYVGSRLNGVQSES  
LGTPRDGKAFRIFAVRQ

>sp|Q9HC73|CRLF2\_HUMAN Cytokine receptor-like factor 2 OS=Homo sapiens GN=CRLF2 PE=1 SV=1

MGRLVLLWGAAVFLLGGWMLGQGGAAGVQIQIIYFNLETVQVTWNASKYSRTNLTIFY  
RFNGDEAYDQCTNYLLQEGHTSGCLLDAEQRDDILYFSIRNGTHPVFTASRWMVYYLKPS  
SPKHVRFSWHQDAVTVTCSDLSYGDLLYEVQYRSPFDTEWQSKQENTCNVTIEGLDAEKC

YSFWVRVKAMEDVYGPDTYPSDWSEVTCWQRGEIRDACAETPTPPKPKLSKFILISSLAI  
LLMVSLLLLSLWKLWRVKKFLIPSVDPKSI FPG LFEIHQGNFQEWITDTQNV AHLHKMA  
GAEQESGPEEPLVVQLAKTEAESPRMLDPQTEEKEASGGS LQLPHQLQGGDVVTIGGFT  
FVMNDRSYVAL

>sp|P02741|CRP\_HUMAN C-reactive protein OS=Homo sapiens GN=CRP PE=1 SV=1

MEKLLCFLVLTSLSHAFGQTMSRKAFVFPKESDTSYVSLKAPLTKPLKFTVCLH FYTE  
LSSTRGYSIFS YATKRQDNEILIFWSKDIGYSFTVGGSEILFEVPEVTVAPVHICTSWES  
ASGIVEFWVDGKPRVRKSLKKG YTVGAEAS IILGQEQDSFGGNFEGSQSLVGDIGNVMW  
DFVLS PDEINTIYLGGPFSPNVLNWRALKYEVQGEVFTK PQLWP

>sp|Q9H3Y0|CRSPL\_HUMAN Peptidase inhibitor R3HDML OS=Homo sapiens GN=R3HDML PE=2 SV=1

MPLLPSTVGLAGLLFWAGQAVNALIMP NATPAPAQPESTAMRLLSGLEVP RYRRKRHISV  
RDMNALLDYHNHIRASVYPPAANMEY MVWDKRLARAAEAWATQCIWAHGPSQLMRYVGQN  
LSIHSGQYRSVVDLMKSWSEEKWHYLFAPRDCNPHCPWRCDGPTCSHYTQM VWASSNRL  
GCAIHTCSSISVWGNTWHR AAYLVCNYAIKGNWIGESPYKMGKPCSSCPPSYQGSCNSNM  
CFKGLKSNKFTWF

>sp|O95727|CRTAM\_HUMAN Cytotoxic and regulatory T-cell molecule OS=Homo sapiens GN=CRTAM  
PE=1 SV=2

MWWRVLSLLAWFPLQEASLTNHTETITVEEGQTLTLKCVTSLRKNSSLQWLTPSGFTIFL  
NEYPA LKNSKYQLLHHSANQLSITVPNVT LQDEGVYKCLHYSDSVSTKEVKVIVLATPFK  
PILEASVIRKQNGEEHVLMCSTMRSKPPPQITWLLGNSMEVSGGTLHEFETDGKKCNTT  
STLI IHTYGNSTVDCIIRHRGLQGRKL VAPFRFEDLV TDEETASDALERN SLSSQDPQQ  
PTSTVSVTEDSSTSEIDKEEKEQTQDPDLTTEANPQYLGLARKKSGILLTLVSFLIFI  
LFIIVQLFIMKLRAHVIWKKENEVSEHTLESYRSR SNNEETSSEEKNGQSSHPMRCMNY  
ITKLYSEAKTKRKENVQH SKLEEKHIQVPESIV

>sp|Q16526|CRY1\_HUMAN Cryptochrome-1 OS=Homo sapiens GN=CRY1 PE=1 SV=1

MGVNAVHWFRKGLRLHDNPALKECTIQGADTIRCVYILD PWFAGSSNVGINRWRFLQCLE  
DL DANLRK LNSRLFVIRGQPADVFPRLFKEWNITKLSIEYDSEPFGERDAAIKKLATEA  
GVEVIVRISHTLYDLDKI IELNGGQPPLYTKRFQTLISKMEPLEIPVETITSEVIEKCTT  
PLSDDHDEKYGVPSLEELGFDTDGLSSAVWPGGETEALTRLERHLERKAWVANFERPRMN  
ANSL LASPTGLSPYLRFGLSCRLFYFKLTDLYKKVKKNSSPPLSLYGQLLWREFFYTAA  
TNNPRFDKMEGNP ICVQIPWDKNPEALAKWAEGRTGFPWIDAIMTQLRQEGWIHHLARHA  
VACFLTRGDLWISWEEGMKVFEELLLDADWSINAGSWMWLS CSSFFQQFFHCYCPVGFR  
RTDPNGDYIRRYLPVLRGFP AKYIYDPWNAPEGIQKVAKCLIGVNYPKPMVNHAESRLN  
IERMKQIYQQLSRYRGLGLLASVSPNPNNGGFMGYSAENIPGCSSSGSCSQSGSILHYA  
HGDSQQTHLLKQGRSSMGTGLSGGKRPSQEEDTQSIGPKVQRQSTN

>sp|Q49AN0|CRY2\_HUMAN Cryptochrome-2 OS=Homo sapiens GN=CRY2 PE=1 SV=2

MAATVATAAAVAPAPAGTDSASSVHWFRKGLRLHDNPALLAAVRGARCVR CVYILD PWF  
AASSSVGINRWRFLQSLLEDLTSLRKLNSRLFVVRGQPADVFPRLFKEWGVTRLTFEYD  
SEPFGERDAAIMKMAKEAGVEVVTENSHTLYDLDR I IELNGQKPPLYTKRFQAIISRME  
LPKKPVGLVTSQQMES CRAEIQENHDETYGVPSLEELGFPTEGLGPAVWQGETEALARL  
DKHLERKAWVANYERPRMNANSL LASPTGLSPYLRFGLSCRLFYRLWDLYKKVKRNST  
PPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIPWDRNPEALAKWAEGKTGFPWID  
AIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWESGVRVFEELLLDADFSVNAGSWMWLS  
CSAFFQQFFHCYCPVGFRRTDPSGDYIRRYLPKLKAFPSRYIYEPWNAPESIQKAAKCI

IGVDYPRPIVNHAETSRNLIERMKQIYQQLSRYRGLCLLASVPSCVEDLSHPVAEPSSSQ

AGSMSSAGPRPLPSGPASPKRKLEAAEPPGEELSKRARVAELPTPELPSKDA

>sp|Q9NSK7|CS012\_HUMAN Protein C19orf12 OS=Homo sapiens GN=C19orf12 PE=1 SV=3

MERLKSHKPATMTIMVEDIMKLLCSLSGERKMKA AVKHSGKGALVTGAMAFVGGLVGGPP

GLAVGGAVGGLLGAWMTSGQFKPVPQILMELPPAEQQRLFNEAAAIIRHLEWTDVQLTA

LVMGSEALQQQLLAMLVNYVTKELR AEIQYDD

>sp|K7EIQ3|CS082\_HUMAN Uncharacterized protein ZNF561-AS1 OS=Homo sapiens GN=ZNF561-AS1  
PE=4 SV=1

MGRIPGGCSSKAFIGRAQWLTPVIPALWEAKGLTLLSRLECSDVIMDHCSPQLTGLRMKG

FLAQTPPLEFPVHQYQPGDHVLIKSWKRESLNQLRRTSSGTLDE

>sp|Q9H8E8|CSR2B\_HUMAN Cysteine-rich protein 2-binding protein OS=Homo sapiens GN=KAT14  
PE=1 SV=3

MDSSIHLSSLISRHDDEATRTSTSEGLEEGEVEGETLLIVESEDQASVDLSHDQSGDSLN

SDEGDVSWMEEQLSYFCDKCKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERL

KL TWQVVMLAMYNLSLEGSGRQGYFRWKEDICAFIEKHWTFLGNRKKTSTWWSTVAGC

LSVGSPMYFRSGAQEFGEPEGWWKLVHNKPPTMKPEGEKLSASTLKIKAAASKPTLDPIITV

EGLRKASRNVPESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFISRGRRP

DVILEKGEVIDFSSLSDDRTPLTSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVM

PPQALFHDDDEMEGDGVIDPGMEYVPPPAGSVASGPVVGVRKKVRGPEQIKQEVESEEEK

PDRMDIDSEDTSNTSLQTRAREKRKPQLEKDTKPKEPRYTPVSIYEEKLLLRLEACPG

AVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLVDGIYGAKEGGISRLPAGQ

ATYRTTCQDFRILDRYQTSLSRKGRHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP

YIRRDYETKPKQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFW

PGIDLSECLQYPDFSVVLYKKVIIAFGMVPDVKYNEAYISFLFVHPEWRRAGIATFMI

YHLIQTCMGKDVTLHVSASNPAMLLYQKFGFKTEEYVLDYDKYYPLESTECKHAFFLRL

RR

>sp|Q9H175|CSRN2\_HUMAN Cysteine/serine-rich nuclear protein 2 OS=Homo sapiens GN=CSRN2  
PE=1 SV=1

MDAFTGSGLKRKFDDVDVGSSVNSDDEISSSDSADSCDSLNPPTTASFTPTSILKRQKQ

LRRKNVRFDQVTVYYFARRQGFTSVPSQGGSSLGMAQRHNSVRSYTLCEFAQEQEVN HRE

ILREHLKEEKLHAKMKLTKNGTVESVEADGLTDDVSDDEDIDVENVEVDDYFFLQPLPT

KRRRALLRASGVHRIDAEEKQELRAIRLSREECGDCRLYCDPEACACSQAGIKCQVDRM

SFPCGCSR DGCGNMAGRIEFNPIRV RTHYLHTIMKLELESKRQVSRPAAPDEEPSPTASC

SLTGAQGSETQDFQEFIAENETAVMHLQSAEELERLKA EEDSSGSSASLDSSIESLGVC I

LEEPLAVPEELCPGLTAPIL IQAQLPPGSSVLCFTENS DHPTASTVNSPSYLSG PLVYY

QVEQRPVLGVKGEPGTEEGSASFPEKDLNVFSLPV TSLVACSSTDPAALCKSEVGKTPT

LEALLPEDCNPEEPENEDFHPSWSPSSLPFR TDNEEGCMVKTSQQNEDRPPEDSSLELP

LAV

>sp|Q5W188|CST9P\_HUMAN Putative cystatin-9-like protein CST9LP1 OS=Homo sapiens  
GN=CST9LP1 PE=5 SV=1

MWSLPPSRALSCAPLLLLFSFQFLVTYAWRFQEEEEWNDQKQIAVYLPPTLEFAVYTFNK

QSKDWYAYKLVPLASWKEQGYDKMTFSMNLQLGR TMCCKGFEDDIDNCPFQESPELNNTC

TCFFTIGIEPWRTRFDLWNKTCSGGHS

>sp|P33240|CSTF2\_HUMAN Cleavage stimulation factor subunit 2 OS=Homo sapiens GN=CSTF2  
PE=1 SV=1

MAGLTVRDPVDRSLRSVFGNIPYEATEEQKIDIFSEVGPVVSFRLVYDRETGKPKGYG  
FCEYQDQETALSAMRNNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETIS  
PEDAPESISKAVASLPPEQMFELMKQMKLCVQNSPQEARNMLLQNPQLAYALLQAQVVMR  
IVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQNPQAPQAQSLGGMHVN  
GAPPLMQASMGGVPAPGQMPAAVTGPGPSLAPGGGMAQVGMPSGSPVSMERGQVPMQ  
DPRAAMQRGSLPANVPTPRGLLDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHHP  
GHESRGPPPHELRGGLPEPRPLMAEPRGPMQDQRPPLDGRGGRDPRGIDARGMEARAM  
EARGLDARGLEARAMEARAMEARAMEARAMEARAMEVRGMEARGMDTRGPVPGPRGPIPS  
GMQGPSPINMGAVVPQGSRGVPMQGTGMQGASIQGGSQPGGFSPGQNPQVTPQDHEKAAL  
IMQVLQLTADQIAMLPPEQRQSILILKEQIQKSTGAP

>sp|O94985|CLSTN1\_HUMAN Calsyntenin-1 OS=Homo sapiens GN=CLSTN1 PE=1 SV=1

MLRRPAPALAPAARLLLGLLCCGGVWAARVNHKHPWLEPTYHGIPTENDNTVLLDPPLI  
ALDKDAPLRFASFVETVTKEGEICGFKIHGQNVFPDAVVVDKSTGEGVIRSKEKLDCEL  
QKDYSFTIQAYDCGKGPDTGNVKKSHKATVHIQVNDVNEYAPVFKEKSYKATVIEGKQYD  
SILRVEAVDADCSPQFSQICSYEIITPDVPFTVDKDGVIKNTKLNKGKEHQYKLTVTAY  
DCGKKRATEDVLKISIKPTCTPGWQGWNNRIEYEPGTGALAVFPNIHLETCDEPVASVQ  
ATVELETSIHGKCDRDTYSEKSLHRLCGAAAGTAELLSPSPGSLNWTMGLPTDNGHDS  
QVFENGTQAVRIPDGVVSVSPKEPFTISVWMRHGPFGRKKETILCSSDKTDMNRHHYSL  
YVHGCRILIFLFRQDPSEKKYRPAEFHWKLNQVCEEWHHYVLNVEFPSVTLYVDGTSHE  
PFSVTEDYPLHPSKIETQLVVGACWQEFSGVENDNETEPVTASAGGDLHMTQFFRGNLA  
GLTLRSGKLADKKVIDCLYTCKEGLDLQVLEDSGRGVQIQAHPSQLVLTLEGEDLGELDK  
AMQHISYLSNRQFPTPGIRRLKITSTIKCFNEATCISVPPVDGYVMVLQPEEPKISLSGV  
HHFARAASEFESSEGVFLFPELRIISTITREVEPEGDAEDPTVQESLVSEEIVHDLDT  
EVTVEGEELNHEQESLEVDMARLQKQKIEVSSSELGMTFTGVDTMASYYEVLHLLRYRNW  
HARSLDRKFKLICSELNGRYISNEFKVEVNV IHTANPMEHANHMAAQPFVHPEHRFSV  
DLSGHNLNPHFPAVVPSTATVIVVCVSFLVFMILGVFRIRAAHRRMTMRDQDTGKENE  
MDWDDSALTITVNPMEYEDQHSSEEEEEEEEESEDEGEEDDITSAESESSEEEEEGEQ  
GDPQNA TRQQQLEWDDSTLSY

>sp|Q9BUV8|CT024\_HUMAN Uncharacterized protein C20orf24 OS=Homo sapiens GN=C20orf24 PE=2  
SV=1

MSGRRKEEPPQPQLANGALKVSVWSKVLRSDAAWEDKDEFLDVIYWFRQIIAVVLGVIW  
GVLPLRGFLGIAGFLINAGVLYLYFSNYLQIDEEYGGTWELTKEGFMTSFALFMVCVA  
DSFTTGHL DHELLHCHPL

>sp|A1L168|CT202\_HUMAN Uncharacterized protein C20orf202 OS=Homo sapiens GN=C20orf202  
PE=2 SV=2

MYKSKIPRAQNQVSVKVT PKNTEMKIAEPPSPSLGQTLEWLRKELSEMQIQDQSLLLT  
HLHSVLEELRADSAHWEDARSSGGTSPIRARAGSEGRGCQPVCSRGLAQLLRGEDSRSS  
LP

>sp|Q9P2B4|CT2NL\_HUMAN CTTNBP2 N-terminal-like protein OS=Homo sapiens GN=CTTNBP2NL PE=1  
SV=2

MNLEKLSKPELLTFLFSILEGELEARDLVIEALKAQHRDTFIEERYGKYNISDPLMALQRD  
FETLKEKNDGEKQPVCTNPLSILKVVMKQCKNMQERMLSQAAAAESRHRKVILDLEEEERQ

RHAQDTAEGDDVTYMLEKERERLTQQLEFEKSQVKKFEKEQKKLSSQLEEERSRHKQLSS  
MLVLECKKATNKAAEEGQKAGELSLKLEKEKSRVSKLEELAAERKRGLQTEAQVEKQLS  
EFDIEREQLRAKLNREENRTKTLKEEMESLKKIVKDLEASHQHSSPNEQLKKPVTVSKGT  
ATEPLMLMSVFCQTESFPAERTHGSNIAKMTNTGLPGPATPAYSYAKTNGHCDPEIQTR  
ELTAGNNVENQVPPREKSVALAQEKPVENGGCPVGIETPVMPSPLSSSGSSLSPSSTAS  
SSLTSSPCSSPVLTKRLLGSSASSPGYQSSYQVGINQRFHAARHKFQSQADQDQQASGLQ  
SPPSRDLSPTLIDNSAAQLARNTVTQVLSRFTSQQGPIKPVSPNSSPFGTDYRNLANTA  
NPRGDTSHSPTPGKVSSPLSPLSPGIKSPTIPRAERGNPPPIPPKKPGLTPSPSATPLT  
KTHSQAASLTAAEDLASSCSSNTVVANGKDVELLLPTSS

>sp|Q5DJT8|CT452\_HUMAN Cancer/testis antigen family 45 member A2 OS=Homo sapiens GN=CT45A2  
PE=2 SV=3

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSLIIAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTGFSKDRMMQKPGSNAPVGGNVTSSFSGDDLECRETAFSPKSQQ  
EINADIKRQLVKELRCVGGQKYEKIFEMLEGVQGPTAVRKRFFESIIEKAARCMRRDFVKH  
LKKKLKRM

>sp|POC2W7|CT47B\_HUMAN Cancer/testis antigen 47B OS=Homo sapiens GN=CT47B1 PE=4 SV=1

MSATGDRHPTQGDQEAPVSQEGAQAEAGAGNQEGGDSGPDSMDVPAEEVVGAGPVEG  
LGEERGEQAAGLAAPVQGGSAEEDSDIGPATEEEEEEEGNEANFDLAVATRRYPAAGI  
GFVFLYLHSLRLRLYHNDHIQIANRHLSRLMVGPHAAVPNLWDNPPLLLLSQRLGAGAA  
APEGEGGLIQEAASVQEAASVPEPAVPADLAEMAREPAEEAADEKPPEEAAEEKLTEEA  
TEEPAAEPTSEEAVAPEEVTKSQPEKWDEEAQDAAGEEEKEQEKEKDVENKVNSKGT

>sp|Q8WUE5|CT55\_HUMAN Cancer/testis antigen 55 OS=Homo sapiens GN=CT55 PE=1 SV=1

MLRLLRLALAFYGRADPAERQGPQQGLPQGDQLTTVQGVVTSFCGDYGMIDESIYFS  
SDVVTGNVPLKVGQKVNVEEDKPHYGLRAIKVDVVRHLYGAGPSDSGTRVLIGCVTS  
INEDNIYISNSIYFSIAIVSEDFVPYKGDLEVEYSTEPGISNIKATSVKPIRCIHTEEV  
CITSVHGRNGVIDYTIFFTLDSVKLPDGYVPQVDDIVNVVMVESIQFCFIWRAISITPVH  
KSSSGFQDDGGLGRPKRERRSQSI

>sp|Q9GZU7|CTDS1\_HUMAN Carboxy-terminal domain RNA polymerase II polypeptide A small  
phosphatase 1 OS=Homo sapiens GN=CTDSP1 PE=1 SV=1

MDSSAVITQISKEEARGPLRGKGDQKSAASQKPRSRGILHSLFCCVCRDDGEALPAHSGA  
PLLVEENGAIKQTPVQYLLPEAKAQDSKICVVIDLDETLVHSSFKPVNADFIIPVEI  
DGVVHQVYVLRPHVDEFLQRMGELFECVLFTASLAKYADPVADLLDKWGAFRARLFRES  
CVFHRGNVVKDLSRLGRDLRRVLILDNSPASYVFHPDNAVVASWFDNMSDTELHDLLPF  
FEQLSRVDDVYSVLRQPRPGS

>sp|O15194|CTDSL\_HUMAN CTD small phosphatase-like protein OS=Homo sapiens GN=CTDSPL PE=1  
SV=2

MDGPAIITQVTNPKEDGRLPGAGEKASQCNVSLKKQRSRSILSSFFCCFRDYNVEAPPP  
SSPSVLPLVEENGLQKGDQRQVIPIPSPPAKYLLPEVTVLDPYGKKCVVIDLDETLVHS  
SFKPISNADFIIPVEIDGTIHQVYVLRPHVDEFLQRMGQLFECVLFTASLAKYADPVAD  
LLDRWGVFRARLRFRESCVFHRGNVVKDLSRLGRELSKVIIVDNSPASYIFHPENAVPVQS  
WFDDMTDELLDIPFFEGLSREDDVYSMLHRLCNR

>sp|Q5SY13|COAS1\_HUMAN Putative uncharacterized protein encoded by COL5A1-AS1 OS=Homo  
sapiens GN=COL5A1-AS1 PE=5 SV=1

MRRPWEEKATRNPIAEVLARKKRTEELISLQEHGSRKQKIKEASISWAETSRQIG



>sp|Q96MW5|COG8\_HUMAN Conserved oligomeric Golgi complex subunit 8 OS=Homo sapiens GN=COG8  
PE=1 SV=2

MATAATIPSVATATAAALGEVEDEGLLASLFRDRFPEAQWRERPDVGRYLRELSGSGLER  
LRREPERLAEERAQLLQQTRDLAFANYKTFIRGAECTERIHRLFGDVEASLGRLLDRLPS  
FQQSCRNFVKEAEEISSNRRMNSLTlnRHTEILEILEIPQLMDTCVRNSYEEALELAAY  
VRRLERKYSSIPVIQGIVNEVRQSMQLMSQLIQQLRtnIQLPACLRVIGYLRRMDVFTE  
AELRVKFLQARDAWLRSILTAIPNDDPYFHITKTIEASRVHLFDIITQYRAIFSDEDPLL  
PPAMGEHTVNESAIFHGWLQKVSQFLQVLETDLYRGIGGHLDSLLGQCMYFGLSFSRVG  
ADFRGQLAPVFQRAISTFQKAIQETVEKFQEEMNSYMLISAPAILGTSNMPAAVPATQP  
GTLQPPMVLLDFPPLACFLNNILVAFNDLRLCCPVALAQDVTGALEDALAKVTKIILAFH  
RAEEAAFSSGEQLFVQFCTVFLEDLVpylnRCLQVLFPPAQIAQTLGIPPTQLSKYGNL  
GHVNIGAIQEPLAFILPKRETlFTLDDQALGPELTAPAPEPPAEPRLEPAGPACPEGGR  
AETQAEPPSVGP

>sp|Q6UWE3|COLL2\_HUMAN Colipase-like protein 2 OS=Homo sapiens GN=CLPSL2 PE=1 SV=3  
MAAALALVAGVLSGAVLPLWSALPQYKKKITDRCFHHSECYSGCCLMDLDSGGAFCAPRA  
RITMICLPQTKGATNIICPCRMLTClSKDLMCSRRCHMI

>sp|Q9UBI1|COMD3\_HUMAN COMM domain-containing protein 3 OS=Homo sapiens GN=COMMD3 PE=1  
SV=1

MELSESVQKGFQMLADPRSFDSNAFTLLLRAAFQSLDDAQADEAVLDHPDLKHIDPVVLK  
HCHAAAATYILEAGKHRADKSTLSTYLEDCKFDRERIElFCTEYQNNKNSLEILLGSIGR  
SLPHITDVSWRLEYQIKTNQLHRMYRPAYLVTLSVQNTDSPSYPEISFSCSMEQLQDLVG  
KLKDASKSLERATQL

>sp|P53618|COPB\_HUMAN Coatomer subunit beta OS=Homo sapiens GN=COPB1 PE=1 SV=3

MTAAENVCYTLINVPMDSEPPSEISLKNDEKGDVKSKEALKKVIIMILNGEKLPGLLM  
TIIRFVLPLQDHTIKKLLLWFWEIVPKTTPDGRLLHEMILVCDAYRKDLQHPNEFIRGST  
LRFLCKLKEAELLEPLMPAIRACLEHRHSYVRRNAVLAITYIYRNFEHLIPDAPELIHDF  
LVNEKDASCKRNAFMMLIHADQDRALDYLSTCIDQVQTFGDILQLVIVELIYKVCHANPS  
ERARFIRCIYNLLQSSSPAVKYEAAGTLVTLSSAPTAIKAAAQCYIDLIIKESDNNVKLI  
VLDRLIELKEHPAHERVLQDLVMDILRVLSTPDLEVRKKTQLALDLVSSRNVEELVIVL  
KKEVIKTNVSEHEDTDKYRQLLVRTLHSCSVRFPDMAANVIPVLMFLSDNNEAAAADV  
LEFVREAIQRFNDLRLIVEKMLEVFHAIKSVKIYRGALWILGEYCSTKEDIQSVMTETIR  
RSLGEIPIVESEIKKEAGELKPEEEITVGPVQKLVTEMGTATQSALSSSRPTKKEEDRP  
PLRGFLLDGDFVFAASLATTlTKIALRYVALVQEKKKQNSFVAEAMLLMATILHLGKSSL  
PKKPITDDDVDRISLCLKVLSECSPLMNDIFNKECRQSLSHMLSakLEEEKLSQKKESEK  
RNVTVQPDDPISFMQLTAKNEMNCKEDQFQLSLLAAMGNTQRKEAADPLASKLNKVTQLT  
GFSDPVYAEAYVHVNYDIVLDVLVVNQTSDTLQNCTLELATLGDLKLVKPSPLTLAPH  
DFANIKANVKVASTENGIIFGNIVYDVSGAASDRNCVVLSDIHIDIMDYIQPATCTDAEF  
RQMWAEEFEWENKVTNTNMVDLNDYLQHILKSTNMKCLTPEKALSGYCGFMAANLYARSI  
FGEDALANVSIEKPIHQGPDAAVTGHIRIRAKSQGMALSLGDKINLSQKKTSI

>sp|Q9UBF2|COPG2\_HUMAN Coatomer subunit gamma-2 OS=Homo sapiens GN=COPG2 PE=1 SV=1

MIKKFDKKDEESGSGSNPFQHLEKSAVLQEARIFNETPINPRRCLHILTKILYLLNQGEH  
FGTTEATEAFFAMTRLFQSNQTLRRMCYLTIKEMATISEDVIIVTSSSLTKDMTGKEDVY  
RGPALRALCRITDGTMlQAIERYMKQAIVDKVVSSSALVSSLHMMKISYDVVKRWINE  
AQEAASSDNIMVQYHALGVLYHLRKNDRlAVSKMLNKFTKSGLKSQFAYCMLIRIASRLL

KETEDGHESPLDFDIESCLRNKHEMVIYEAASAI IHLPNCTARELAPAVSVLQLFCSSPK  
PALRYAAVRTLNKVMKHPSAVTACNLDLENLITDSNRSIATLAITTLKTGSESSVDRL  
MKQISSFVSEISDEFKVVVVQAISALCQKYPRKHSVMMTFLSNMLRDDGGFEYKRAIVDC  
IISIVEENPESKEAGLAHLCEFIEDCEHTVLATKILHLLGKEGPRTVPVSKYIRFIFNRV  
VLENEAVRAAAVSALAKFGAQNESLLPSILVLLQRCMMDDDEVDRATFYLNVLQQRQM  
ALNATYIFNGLTVSVPGMEKALHQYTLEPSEKPFDMKSIPLAMAPVFEQKAEITLVATKP  
EKLAPSRQDIFQEQLAAIPEFLNIGPLFKSSEPVQLTEAETEFVRCIKHMFTNHIVFQF  
DCTNTLNDQLLEKVTVMPEPSDSYEVLSICIPAPSLPYNQPGICYTLVRLPDDDPTAVAGS  
FSCTMKFTVRDCDPTNGVPDEDDGYDDEYVLEDLEVTVSDHIQKVLKPNFAAAWEEVGDTF  
EKEETFALSSTKTLEEAVNNIITFLGMQPCERSDKVPENKNSHSLYLAGIFRGGYDLLVR  
SRLALADGVTMQVTVRSKERTPVDVILASVG

>sp|Q9NQ92|COPRS\_HUMAN Coordinator of PRMT5 and differentiation stimulator OS=Homo sapiens GN=COPRS PE=1 SV=3

MDLQAAGAQAQAAEPSRGPPLSARGAPPSPEAGFATADHSSQERETEKAMDRLARGTQ  
SIPNDSPARGEGTHSEEGFAMDEEDSDGELNTWELSEGTCNPPKEQPGDLFNEDWDSEL  
KADQGNPYDADDIQESISQELKPWVCCAPQGDMIDPSWHPPPLIPYYSKMVFETGQFD  
DAED

>sp|Q6UWD8|CP054\_HUMAN Transmembrane protein C16orf54 OS=Homo sapiens GN=C16orf54 PE=1 SV=1

MPLTPEPPSGRVEGPPAWEAAPWPSLPCGPCIPIMLVLATLAALFILTTAVLAERLFRRA  
LRPDPSHRAPTLVWRPGGELWIEPMGTARERSEDWYGSAVPLLTDRAPEPTQVGTLEAR  
ATAPPAPSAPNSAPSNLGPQTVLEVPARSTFWGPQPWEGRPPATGLVSWAEPEQRPEASV  
QFGSPQARRQRPGSPDPEWGLQPRVTLEQISAFWKREGRTSVGF

>sp|Q9BSU1|CP070\_HUMAN UPF0183 protein C16orf70 OS=Homo sapiens GN=C16orf70 PE=1 SV=1

MLDLEVVPERSLGNQWEFTLGMPLAQAVAILQKHCRI IKNVQVLYSEQSPLSHDLILNL  
TQDG IKLMFDAFNQRLKVIEVCDLTKVKLKYCGVHFNSQAIAPTIEQIDQSFGATHPGVY  
NSAEQLFHLNFRGLSFSFQLDSWTEAPKYEPNFAHGLASLQIPHGATVKRMYIYSGNSLQ  
DTKAPMMLSCFLGNVYAESVDVLRDGTGPAGLRRLRLAAGCGPGLLADAKMRVFERSVY  
FGDSCQDVL SMLGSPHKVFYKSEDKMKIHSPPHKQVPSKNDYFFNYFTLGVDILFDAN  
THKVKKFVLHTNYPGHYNFNIYHRCEFKIPLAIKKENADGQTETCTTYSKWDNIQELLGH  
PVEKPVVLRSSSPNNTNPFGSTFCFGLQRMIFEVMQNNHIASVTLYGPPRPGSHLRTAE  
LP

>sp|Q14CZ0|CP072\_HUMAN UPF0472 protein C16orf72 OS=Homo sapiens GN=C16orf72 PE=1 SV=1

MEERKEEGEAEIQEHGPEHWFWSKWERQCLAEAEQDEQLPPELQEEAAAAAQPEHKQKQLW  
HLFQNSATAVAQLYKDRVCQPGLSLWVPFQNAATAVTNLYKESVDTHQRSFDIGIQIGY  
QRRNKDVLAWVKKRRRTIRREDLISFLCGKVPPRNSRAPRLTVVSPNRATSTETSSSV  
ETDLQPFREAIALHGLSGAMASISVRSSTPGSPTHVSSGSNASRRRNGLHDVDLNTFISE  
EMALHLDNGGTRKRTSAQCGDVITDSPTHKRNMI

>sp|Q6ZW13|CP086\_HUMAN Uncharacterized protein C16orf86 OS=Homo sapiens GN=C16orf86 PE=2 SV=2

MASAGAERRPGVQEATVVGGQQLTEEPGSAQTSECPVAGDQFLVPAHEARGTQSEDQRPA  
GAASESELQEEGPKLGEERPKPHAGALEERGPRPVVSIVRPRHGPKRKPVKSLSLPGLRA  
HLKAEAE LPPKLPLQEEEPEDSQSESPSAKQHKKAKKRKSLGAPVLHAVASMVSAPLET  
LRLERKAQRLRPLYQYVNYCNPELNQAGKGDGEAEVEAEAEELAPVPEEGGVEQLQALLPL

AGELGPGLALPCPSPLVTPHALAPLGEEAGEEPGGLPSLGVSDHKAEDVKSTQVDIDKM  
LSVCTAPLVPPLSPQYK

>sp|A8MZG2|CP090\_HUMAN Uncharacterized protein C16orf90 OS=Homo sapiens GN=C16orf90 PE=2  
SV=2

MEALVYAVSQAQGRPGHPDAPPNIYEGGLGSPQPQCPSAQGSKPKNFRLRHLRGLGLYLE  
SHPPPTGQCESHWLGRLMAGGCLPQPEGTAWALDLPQGTGPRNSLCSALLEARLPRDSL  
GSSASSSSMDPDKGALPQSPSRLRPKRSWGTWEEAMCPLCKRTRSGALERP

>sp|Q07973|CP24A\_HUMAN 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial OS=Homo  
sapiens GN=CYP24A1 PE=1 SV=2

MSSPISKSRSLAFLQQLRSPRQPPRLVTSTAYTSPQPREVPVCPLTAGGETQNAALPG  
PTSWPLLGSLLQILWKGGKKQHDTLVEYHKKYGKIFRMKLGSESVHLGSPCLLEALYR  
TESAYPQRLEIKPWKAYRDIRKEGYGLLILEGEDWQVRSAFQKKLMKPGEVMKLDNKIN  
EVLADFMRIDELCDEGHVEDLYSELNKSFSICLVLYEKRFGLLQKNAGDEAVNFIM  
AIKTMSTFGRMMVTPVELHKSNTKVWQDHTLAWDTIFKSVKACIDNRLEKYSQQPSAD  
FLCDIYHQNRLSKKELYAAVTEQLAAVETTANSLMWILYNLSRNPVQQKLLKEIQSVL  
PENQVPRAEDLRNMPYLKACLKESMRLTPSVPTTTRTLDKATVLGEYALPKGTVLMLNTQ  
VLGSSEDNFEDSSQFRPERWLQEKEKINPFAHLPFGVGKRCIGRRLAELQLHLALCWIV  
RKYDIQATDNEPVEMLHSGTLVPSRELPIAFCQR

>sp|Q16696|CP2AD\_HUMAN Cytochrome P450 2A13 OS=Homo sapiens GN=CYP2A13 PE=1 SV=3

MLASGLLLVTLLACLTVMLMSVWRQRKSRGKLPFGPTPLPFIGNYLQNLTEQMYNSLMK  
ISERYGPVFTIHLGPRRVVLCGHDAVKEALVDQAEFSGRGEQATFDWLFKGYGVAFSN  
GERAKQLRRFSIATLRGFGVGKRGIEERIQEEAGFLIDALRGTHGANIDPTFFLSRTVSN  
VISSIVFGDRFDYEDKEFLSLLRMMLGSFQFTATSTGQLYEMFSSVMKHLPGPQQQAFKE  
LQGLEDFIAKKVEHNQRTLDPNSPRDFIDSFLIRMQEEKNPNTFYLKNLVMTTNLFF  
AGTETVSTTLRYGFLLLMKHPEVEAKVHEEIDRVIGKNRQPKFEDRAKMPYTEAVIHEIQ  
RFGDMLPMGLAHRVNKDTKFRDFLPGKTEVFPMLGSVLRDPRFFSNPRDFNPQHFLDKK  
GQFKKSDAFVPFSIGKRYCFGEGLARMELFLFTTIMQNRFRKSPQSPKDIDVSPKHVGF  
ATIPRNYTMSFLPR

>sp|P33261|CP2CJ\_HUMAN Cytochrome P450 2C19 OS=Homo sapiens GN=CYP2C19 PE=1 SV=3

MDPFVVLVLCSCLLLLSIWRQSSGRGKLPFGPTPLPVIGNILQIDIKDVSKSLTNLSKI  
YGPVFTLYFGLERMVVLHGVEVKEALIDLGEFSGRGHFPLAERANRGFGIVFSNGKRW  
KEIRRFSLMTLRNFGMGKRSIEDRVQEEARCLVEELRKTKASPCDPTFILGCAPCNVICS  
IIFQKRFDYKDQQLNLMEKLNENIRIVSTPWIIQICNNFPTIIDYFPGTHNKLKNLAFM  
ESDILEKVKEHQESMDINNPRDFIDCFLIKMEKEKQKQSEFTIENLVITAADLLGAGTE  
TTSTTLRYALLLLKHPEVTAKVQEEIERVVGRNRSPCMQDRGHMPYTDVVHEVQRYID  
LIPTSLPHAVTCDVKFRNYLIPKGTITLTSVLDHNKEFPNPEMFDPRHFLDEGGNFK  
KSNYFMPFSAGKRICVGEGLARMELFLFLTIFILQNFNLKSLIDPKDLDTTPVVNGFASVP  
PFYQLCFIPV

>sp|P05181|CP2E1\_HUMAN Cytochrome P450 2E1 OS=Homo sapiens GN=CYP2E1 PE=1 SV=1

MSALGVTVALLVWAAFLLLVSMWRQVHSSWNLPFGPFPLPIIGNLFQLELKNIPKSFTRL  
AQRFGPVFTLYVGSQRMVVMHGYKAVKEALDYKDEFSGRGDLPAFHAHRDRGIIFNNGP  
TWKDIRRFSLTTLRNYGMGKQGNESRIQREAHFLEALRKTTQGPFDPTFILGCAPCNVI  
ADILFRKHFDYNDEKFLRLMYLFNENFHLLSTPWLQLYNNFSPFLHYLPGSHRKVIKNVA  
EVKEYVSERVKEHHQSLDPNCPRLDTCLLVEMEKEKHAERLYTMDGITVTVADLFFAG

TETTSTTLRYGLLILMKYPEIEEKLHEEIDRVIGPSRIPAIDRQEMPYMDAVVHEIQRF  
ITLVP SNLPHEATRD TIFRGYLIPKGT VVVPTLDSVLYDNQEFDPDEKFKPEHFLNENGK  
FKYSDFYKPFSTGKRV CAGEGLARME LFLLLCAILQHFN LKPLVDPKDIDLSP IHIGFGC  
IPPRYKLCVIPRS

>sp|P24903|CP2F1\_HUMAN Cytochrome P450 2F1 OS=Homo sapiens GN=CYP2F1 PE=1 SV=2  
MDSISTAILLLLLALVCLLLTLSSRDKGKLP GPRPLSILGNLLLLCSQDMLTSLTKLSK  
EYGSMTYVHLGPRRVVLSGYQAVKEALVDQGEEFSGRGDYP AFNF TKNGIAFSSGDR  
WKVLRQFSIQILRNFGMGKRSIEERILEEGSFLLAELRKTEGEPDPTFVLSRSVSNII C  
SVLFGSRFDYDDERLLTII RLINDNFQIMSSPWGELYDIFPSLLDWVPGPHQRIFQNFKC  
LRDLIAHSVHDHQASLDPRSPRDFIQCF LTKMAEEKEDPLSHFMDTLLMTTHNLLFGGT  
KTVSTTLHHAFLALMKYPKVQARVQEEIDL VVGARLPALKDRAAMPYTD AVIHEVQRFA  
DIIPMNLPHRVTRDTAFRGFLIPKGT DVITLLNTVHYDPSQFLT PQEFNPEHFLDANQSF  
KKSPAFMPFSAGRRCLGESLARMELFLYL TAILQSFSLQPLGAPEDIDL TPLSSGLGNL  
PRPFQLCLRPR

>sp|Q96SQ9|CP2S1\_HUMAN Cytochrome P450 2S1 OS=Homo sapiens GN=CYP2S1 PE=1 SV=2  
MEATGTWALLALALLLLTLALSGTRARGHLPPGPTPLPLGNLLQLRPGALYSGLMRL  
SKKYGPVFTIYLGWP RPVVVLVGQEAVREALGGQAE EFSGRGTVAMLEGTFDGHGVFFSN  
GERWRQLRKFTMLALRDLGMGKREG EELIQAEARCLVET FQGTEGRPFDP SLLLAQATSN  
VVCSSLFGLRFSYEDKEFQAVVRAAGGTLLGVSSQGGQTYEMFSWFLRPLPGPHKQLLHH  
VSTLAAFTVRVQVQHQNLDASGPARDLVDAFLLKMAQEEQNPGTEFTNKNMLMTVIYLL  
FAGTMTVSTTVGYTLLLLMKYPHVQKVVREELNRELGAGQAPSLGDRTRLPYTDAVLHEA  
QRLLALVPMGIPRTLMRTTRFRGYTL PQGTEVFPLLSILHDPNIFKHPEEFNPDRFLDA  
DGRFRKHEAFLPFSLGKRVCLGEGLAKAELFLFFTTILQAFSLESPPD TLSLKPTVSG  
LFNIPPAFQLQVRPTDLHSTTQTR

>sp|Q8TAV3|CP2W1\_HUMAN Cytochrome P450 2W1 OS=Homo sapiens GN=CYP2W1 PE=1 SV=2  
MALLLLFLGLLGLWGLLCACAQDPSPAARWPPGPRPLPLVGNLHLLRLSQQDRSLMELS  
ERYGPVFTVHLGRQKTVVLTGFEAVKEALAGPGQELADRPPIAIFQLIQRGGGIF FSSGA  
RWRAARQFTVRALHSLGVGREPVADKILQELKCLSGQLDGYRGRPFPLALLGWAPS NITF  
ALLFGRRFDYRDPVFVSLLGLIDEVMVLLGSPGLQLFNVPWL GALLQLHRPVLRKIEEV  
RAILRTLLEARRPHVCPGDPVCSYVDALIQQGQDDPEGLFAEANAVACTLDMVMAGTET  
TSATLQWAALLMGRHPDVQGRVQEELDRVLGPGRTPRLEDQQALPYTS AVLHEVQRFITL  
LPHVPRCTAADTQLGGFLLPKGTPVIPL LTVLLDETQWQTPGQFNPGHFLDANGHFVKR  
EAFLPFSAGRRVCGERLARTELFLLFAGLLQRYRLPPPGVSPASLDTTPARAFTMRPR  
AQALCAVPRP

>sp|Q9NYL5|CP39A\_HUMAN 24-hydroxycholesterol 7-alpha-hydroxylase OS=Homo sapiens  
GN=CYP39A1 PE=2 SV=2  
MELISPTV I IILGCLALFLLLQRKNLRRPPCIKWIPWIGVGFEFGKAPLEFIEKARIKY  
GPIFTVFAMGNRMTFVTEEGINVFLKSKKVD FELAVQNI VYRTASIPKNVFLALHEKLY  
IMLKGMGT VNLHQFTGQLTEELHEQLENL GTHGTMDLNNLVRHLLYPVTVNMLFNKSLF  
STNKKKI KEFHQYFQYDEDFEYGSQ LPECLLRNWSKSKWFLELFEKNIPDIKACKSAK  
DNSMTLLQATLDIVETETSKENSPNYGLLLLWASLSNAV PVAFWTLAYVLSHPDIHKAIM  
EGISSVFGKAGDKIKVSEDDLENLLIKWCVLETIRLKAPGVITRKVVKPVEILNYIIP  
SGDLLMLSPFWLHRNPKYFPEPEL FKPERWKKANLEKHSFLDCFMAFGSGKFQCPARWFA  
LLEVQMCIIILILYKYDCSLDPLPKQSYLHLVGVPQPEGQCRIEYKQRI

>sp|P08684|CP3A4\_HUMAN Cytochrome P450 3A4 OS=Homo sapiens GN=CYP3A4 PE=1 SV=4

MALIPDLAMETWLLLA VSLVLLYLGTHSHGLFKKLGI PGPTLPFLGNILSYHKGFCMF  
DMECHKKYGVWGFYDGGQPVLAITDPDMIKTVLVKECYSVFTNRRPFGVPGFMKSAISI  
AEDEEWKRLRSLLSPTFTSGKLKEMVPIIAQYGDVLVRNLRREAETGKPVTLKDVFGAYS  
MDVITSTSFGVNIDSLNNPQDPFVENTKKLLRFDFLDPFFLSITVFPFLIPILEVLNICV  
FPREVTNFLRKSVKRMKESRLEDTQKHRVDFLQLMIDSQNSKETESHKALSDLELVAQSI  
IFIFAGYETTSSVLSFIMYELATHPDVQQLQEEIDAVLPNKAPPTYDTVLQMEYLDMVV  
NETLRLFP IAMRLERVCKKDVEINGMFIPKGVVVMIPSYALHRDPKYWTEPEKFLPERFS  
KKNKDNIDPYIYTPFGSGPRNCIGMRFALNMMLALIRVLQNF SFKPKETQIPLKLSLG  
GLLQPEKPVVLKVESRDGTVSGA

>sp|Q9Y6A2|CP46A\_HUMAN Cholesterol 24-hydroxylase OS=Homo sapiens GN=CYP46A1 PE=1 SV=1

MSPGLLLLGS AVLLAFGLCCTFVHRARSRYEHIPGPPRPSFLLGHLPCFWKKDEVGGRVL  
QDVFLDWAKKYGPVVRVNVFHKTSVIVTSPESVKKFLMSTKYNKDSKMYRALQTVFGERL  
FGQGLVSECN YERWHKQRRVIDLAFSRSSLVSLMETFNEKAEQLVEILEAKADGQTPVSM  
QDMLTYTAMDILAKAAFGMETSMMLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQL  
REVRESIRFLRQVGRDWVQRRREALKRGEVPADILTQILKAEEGAQDDEGLLDNFVTFF  
IAGHETSANHLAFTVMELSRQPEIVARLQAEVDEVIGSKRYLDFEDLGR LQYLSQVLKES  
LRLYP PAWGTFRLLEEETLIDGVRVPGNTPLLFSTYVMGRMDTYFEDPLTFNPDRFGPGA  
PKPRFTYFPFSLGHRSCIGQQFAQMEVKVVMAKLLQRLEFRLVPGQRFG LQEATLKPLD  
PVLCTLRPRGWQ PAPP P P P P P C

>sp|Q02928|CP4AB\_HUMAN Cytochrome P450 4A11 OS=Homo sapiens GN=CYP4A11 PE=1 SV=1

MSVSVLSPSRLLGDVSGILQAASLLILL LLLIKAVQLYLHRQWLLKALQQFPCPPSHWLF  
GHIQELQQDQELQRIQKWVETFPSACPHWLWGGKVRVQLYDPDYMK VILGRSDPKSHGSY  
RFLAPWIGYGLLLNGQTWFQHRRMLTPAFHYDILKPYVGLMADSVRVMLDKWEELGQD  
SPLEVFQHVSLMTLDTIMKCAF SHQGSIQVDRNSQSYIQAISDLNNLVFSRVRNAFHQND  
TIYSLTSAGR WTHRACQLAHQHTDQVIQLRKAQLQKEGELEKIKRKRHLDFLDILLAKM  
ENGSI LSDKDLRAEVDTFMFEGHDTTASGISWILYALATHPKHQERCREEIHSLLGDGAS  
ITWNHLDQMPYTTMCIKEALRLYPVPGIGRELSTPVTFPDGRSLPKGIMVLLSIYGLHH  
NPKVWP NPEVDFPFRFAPGSAHQSHAF L PFGSGSRNCIGKQFAMNELKVATALTLRFEL  
LPDPTRIP IPIARLVLSKNGIHLRLRRLPNPCEDKDQL

>sp|Q6NT55|CP4FN\_HUMAN Cytochrome P450 4F22 OS=Homo sapiens GN=CYP4F22 PE=2 SV=1

MLPITDRLLHLLGLEKTA FRIYAVSTLLFLFLFRLLLRFLRLCRSFYITCRRLRCFP  
QPPRRNWLLGHLGMYLPNEAGLQDEKKVLDNMHHVLLVWMGPVLP LLVLVHPDYIKPLL G  
ASAAIAPKDDLFGYGLKPWLG DGLLSKGDKWSRHRRLTPAFHFDILKPYMKIFNQ SAD  
IMHAKWRHLAEGSAVSLDMFEHISLMTLDSLQKCVFSYNSNCQEKMSDYISAI IELSALS  
VRRQYRLHHYLDFIYYSADGRRFRQACDMVHHFTTEVIQERRRALRQQGAEAWLKAKQG  
KTLD FIDVLLLARDEDGKELSD EDIRAEADTFMFEGHDTTSSGISWMLFN LAKYPEYQEK  
CREEIQEVMKGRELEEELEWDDLTQLPFTTMCIKESLRQYPPVTLVSRQCTEDIKLPDGRI  
IPKGIICLVSIYGTHHNPTVWPDSKVYNPYRFPDNPQQRSPLAYVPFSAGPRNCIGQSF  
AMAELRVVVALTLRFRLSVDRTRKVRKPELILRTENGLWLKVEPLPPRA

>sp|Q8N123|CPXCR\_HUMAN CPX chromosomal region candidate gene 1 protein OS=Homo sapiens  
GN=CPXCR1 PE=2 SV=2

MSYPTKEGSDTAGNAHKNS ENEPND CSTDIESPSADPNMIYQVETNPINREPGTATSQE  
DVVPQAAENSELETEIQKDQREEDLKEELLLQTPIPRKLVS HKPLNDRSRSHSGK VEMK

ANNFPINHKTRFRLSTSWRVPFINSHEIRSMILHLLCDRYFSAAGCQNTMWVKRKYIAC  
LYHPNSFTHHERAITFRRPSRVHYRPLTERMTSGKFCKSTDTKGKCRFRAIVRSVLFVS  
QIQIESIFNIKGFVDILTYIHTMNMVITNTNNGWKYFCPICGRLFNTYSELQRHSCSSSG  
N

>sp|Q8NEP4|CQ047\_HUMAN Uncharacterized protein C17orf47 OS=Homo sapiens GN=C17orf47 PE=2  
SV=3

MVKTNKPQAKVAVSAQRGSEVTTNTSPQQGHGYVLASSHRSAVSLNPSHRRSEAAHPTT  
PHSADYPRSVSLQSGPGHYAVPTPRGPETGPRTESSRHSSPHLKSQKTQTLASHASSRQ  
WKVSPPREEAARRGSESKSGREVGHHASSIPDAKSTHQLSFQDQKNNLQSQILEDPPSK  
VQNPQGVVRPRRILSYPKDEAVQTEPIQRITTTSEIRSPRSPSLEHGSSCVSADYQTAQ  
RRVPVEESETGPYGPISPKPKALYRNMNLDLKLKSVLKSDGVHRVSARVDPESLHKYS  
AYPETKPSAKVLVSSQVESNVRTPIRGNSEVGRRVTISPGVQSVEPTHHVTVPVSEGS  
KSSMFVTPEPIYKQQTQKPPEITYMSQGPTPRYPELSQKPSIHAELELTPRPLPPRSLPR  
YGPDSWWPLNPEVETPQSQLTTPDFEPKCSPLDLLSGFKIDSSPFCEDLKFQREKA  
SLSPSPPKFEPKSWAPLSEVPQTPKHTCKQPIQRFTAFLDVSEMYNRVIWWLKGCLCFS  
LLWAHCGSLGDGRTGEEWHLCIYRAGSFRR

>sp|Q0P5P2|CQ067\_HUMAN Uncharacterized protein C17orf67 OS=Homo sapiens GN=C17orf67 PE=1  
SV=2

MASFKLADSVWEDSLSKRQRNQGRMKTLPVLVLSLTLLTVFSETSPILTEKQAKQLLSR  
RQDRPSKPGFPDEPMREYMHLLALEHRAEEQFLEHWLNPHCKPHCDRNRIHPV

>sp|Q0VDD5|CQ091\_HUMAN Putative uncharacterized protein encoded by MIR22HG OS=Homo  
sapiens GN=MIR22HG PE=5 SV=1

MGWEGPNSRVDDTFWASWRAFAQIGPARSGFRLETLAGLSRRLKQPKAFCLRDVAP

>sp|A8MU93|CQ100\_HUMAN Uncharacterized protein C17orf100 OS=Homo sapiens GN=C17orf100  
PE=2 SV=1

MASARGAKQSSPRVGTTRYTETSTVRVETSSHRVETSSRRVETSQRRSEGPSLSPSGKRL  
PRILEASSRHVESSQRTETTSRHRVASSLRVETSLHCAESPTPRPSRPPARTKKRPDEM  
LLPKGHHQGARALSQDRKASSCPASQLPGGPPIIFGFMETNHKSM

>sp|Q6ZR85|CQ107\_HUMAN Uncharacterized protein C17orf107 OS=Homo sapiens GN=C17orf107  
PE=2 SV=1

MKGTPSSLDTLMWIYHFHSSTEVALQPPLLSSLELSVAAAHEYLEQRFRELKSLEPPEPK  
MQGMLPAPKPTLGLVLREATASLVSGFTTLEISALWLQQEARRLDGSAGAPDGRDPGA  
ALSRVAQAAGQGVQAGAAVGASARLLVQGAWLCLCGRGLQGSASFLRQSQQQLGLGIPG  
EPVSSGHGVS

>sp|F2Z3M2|CQ112\_HUMAN Uncharacterized protein C17orf112 OS=Homo sapiens GN=C17orf112  
PE=4 SV=1

MYTSLKSTFVAFADGRGTTESMPSPPLANSNHESPVNQLGNMQNMRLGPSFILTGIFLGN  
GRTEASPFFTDEFALSKIFPEYKRNLFGKFQTNMAFSLELDPPSLLLSVVLFMF

>sp|Q96FQ7|CR018\_HUMAN Putative uncharacterized protein encoded by LINC00526 OS=Homo  
sapiens GN=LINC00526 PE=5 SV=1

MSHSYKKAISDEALRPFQMDYFGGLPPGQYATRMTGQVHSGGCHLSAPCDLGASQRKLS  
SNFSEIDAGLFSQKSAAYTDIGATKPVEQRETAS

>sp|P17927|CR1\_HUMAN Complement receptor type 1 OS=Homo sapiens GN=CR1 PE=1 SV=3

MGASSPRSPPEVGPAPGLPFCCGGSLLAVVLLALPVAWGQCNAPEWLPFARPTNLTDE

FEFPIGTYLNYECRPGYSGRPFSSIICLKNSVWTGAKDRCRRKSCRNPPDPVNGMVHVIKG  
IQFGS QIKYSCTKGYRLIGSSSATCIISGDTVWDNETPICDRIPCGLPPTITNGDFIST  
NRENFHYG SVVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQVGIWSGPAPQCIIPNKCTP  
PNVENGILVSDNRSLSLNEVVEFRCQPGFVMKGPRRVKCQALNKWEPELPSCSRVCQPP  
PDVLHAERTQRDKDNFSPGQEVFYSCEPGYDLRGAASMRCTPQGDWSPAAPTCEVKSCDD  
FMGQLLN GRVLF PVNLQLGAKVDFVCDEGFQLKGSSASYCVLAGMESLWNSSVPVCEQIF  
CPSPPIPNGRHTGKPLEVFPFGKTVNYTCDPHPDRGTSFDLIGESTIRCTSDPQNGVW  
SSPAPRCGILGHCQAPDHFLFAKLKTQTNASDFPIGTSLKYECRPEYYGRPFSITCLDNL  
VWSSPKDVCKRK SCKTPDPVNGMVHVIDTIQVGS RINYSCTTGHR LIGHSSAECILSGN  
AAHWSTKPPICQRI PCGLPPTIANGDFISTNRENFHYG SVVTYRCNPGSGGRKVFELVGE  
PSIYCTSNDDQVGIWSGPAPQCIIPNKCTPPNVENGILVSDNRSLSLNEVVEFRCQPGF  
VMKGPRRVKCQALNKWEPELPSCSRVCQPPPDVLHAERTQRDKDNFSPGQEVFYSCEPGY  
DLRGAASMRCTPQGDWSPAAPTCEVKSCDDFMGQLLN GRVLF PVNLQLGAKVDFVCDEGF  
QLKGSSASYCVLAGMESLWNSSVPVCEQIFCPSPPIPNGRHTGKPLEVFPFGKAVNYTC  
DHPDRGTSFDLIGESTIRCTSDPQNGVWSSPAPRCGILGHCQAPDHFLFAKLKTQTNA  
SDFPIGTSLKYECRPEYYGRPFSITCLDNLVWSSPKDVCKRK SCKTPDPVNGMVHVIDT  
IQVGS RINYSCTTGHR LIGHSSAECILSGNTAHWSTKPPICQRI PCGLPPTIANGDFIST  
NRENFHYG SVVTYRCNLGSRGRKVFELVGEPSIYCTSNDDQVGIWSGPAPQCIIPNKCTP  
PNVENGILVSDNRSLSLNEVVEFRCQPGFVMKGPRRVKCQALNKWEPELPSCSRVCQPP  
PEILHGEHTPSHQDNFSPGQEVFYSCEPGYDLRGAASLHCTPQGDWSPEAPRCAVKSCDD  
FLGQLPHGRVLFPLNLQLGAKVSFVCDEGFRLKGSSVSHCVLVGMRLWNSVPVCEHIF  
CPNPPAILN GRHTGTPSGDIPYGKEISYTC DPHPDRGMTFNLIGESTIRCTSDPHGNGVW  
SSPAPRCESVRAGHCKTPEQFPFASPTIPINDFEFPVGTSLNYECRPGYFGKMFSISCL  
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SGNNVTWDDKAPICEIISCEPPPTISNGDFYSNNRTSFHNGTVVTYQCHTGPDGEQLFEL  
VGERSIYCTSKDDQVGWSSPPPRCISTNKCTAPEVENAIRVPGNRSFFSLTEIIRFRCQ  
PGFVMVGSHTVQCQTNGRWGPKLPHCSRVCPPEILHGEHTLSHQDNFSPGQEVFYSCE  
PSYDLRGAASLHCTPQGDWSPEAPRCTVKSCDDFLGQLPHGRVLLPLNLQLGAKVSFVCD  
EGFRLKGRSASHCVLAGMKALWNSVPVCEQIFCPNPPAILN GRHTGTPFGDIPYGKEIS  
YACDTHPDRGMTFNLIGESSIRCTSDPQNGVWSSPAPRCESVPAACPHPPKIQNGHYI  
GGHVSLYLPGMTISYICDPGYLLVGKGFIFCTDQGIWSQLDHYCKEVNCSFPLFMNGISK  
ELEMKKVYHYGDYVTLKCEDGYTLEGSPWSQCQADDRWDPLAKTSRTHDALIVGTLSG  
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>sp|Q9NQ79|CRAC1\_HUMAN Cartilage acidic protein 1 OS=Homo sapiens GN=CRTAC1 PE=1 SV=2

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TDVDHGDGFEIVVAGYNGPNLVLYKDRAQKRLVNI AVDERSSPYALRDRQGNAIGVTAC  
DIDGDGREEIYFLNTNNAFSGVATYTDKLFKFRNNRWEDILSDEVNARGVASLFAGRSV  
ACVDRKSGRYSIIYANYAGNVGPDAL IEMDPEASDL SRGILALRDVAAEAGVSKYTGG  
RGVSVGPI LSSASDIFCDNENGNFLFHNRGDGT FVDAAASAGVDDPHQHGRGVALADF  
NRDGKVDIVYGNWNGPHRLYLQ MSTHGKVRFRDIASPKFSMPSPVRTVITADFDNDQELE  
IFFNNIAYRSSSANRLFRVIRREHGDPLIEELNPGDALEPEGRGTGGVVTDFDGDGMLDL  
ILSHGESMAQPLSVFRGNQGFNNNLRVVPRTRFGAFARGAKVVLYTKKSGAHLRIIDGG  
SGYLCMEPEVAHFGLGKDEASSVEVTWPDGKMVSRNVASGEMNSVLEILYPRDEDTLQDP  
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DGTACVGTLGQSPGPRPTTPTAAAAATAAAAAAGAATAAPVLVDGDLNLGSVVKESCEPS

C

>sp|H7BZ55|CRCC2\_HUMAN Putative ciliary rootlet coiled-coil protein 2 OS=Homo sapiens  
GN=CROCC2 PE=5 SV=3

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CRVSEQLQARLETTEAQLRRSELEHSVDLEALGRLEAAEERSTGLCQVNALLREQLEH  
MKKANDALGRELAGMTGSVQRLQGELELRRWAQRQTRSGGLGQPRDLLLLWRQAVVLGTD  
LAELRVATERGLADLQADTARTARRLHTACLNLDNLRLSASSTASTLGQQLRDKAGEML  
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GSSITELGEPRRPLRSPQRATSPHQGASPPHICSPATLDPALQAMRAAIERRWRREQELC  
LQLKSSQALVASLQEQLSESRRELWAAQKLQQERAREQAREREALRGQLEAQRLEVQQCR  
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RSCRALETSQGRLQQLLEEKVSGLREELASVREALSTAQLQRDVVESEREGLRSALARAEC  
SNADLELLVRRLLKSEGVEQRDSLAAMAALMEGLAQDKSALNHLALQLEQERDQLREQRKT  
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VGQVTCQKQALEEQQLAQSLQDQEAQMGTLLQALQGKDALSEERAQLLAKQEALERQGRLA  
AEEAADLRVERDSLESSLLEAQQLATKLQEQLEEEARSAGLARQALQVEMEQLQSDWEVQ  
EMKLRQDTVRLQRQVAQQEREQRALESQALAHREALAQLQREKETLSLTLAEEKEVARC  
QLEQEKELVTKSAAEREALKGEIQSLKQERDESLLQLEHKMQQVMALSLKETERSLLSEE  
LSRARRTLERVQQAQSQEQEAQATISATTEELKALQAQFEDAITAHQRETTALRESLQD  
LAAERGDVEREAERLRAQLTVAQEGLAALRQELQGVEESREGLHREAQEARRALSDEARE  
KDVLLLFNSELRATICRAEQEKASFKRSKEEKEQKLLILEEAQAALQQEASALRAHLWEL  
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QARLDQACHRIHSLEQELAQAEGARQDAEAQLGRLCSTLRRGLGLQRQSPWASPEQPGSP  
TKGSDSSQALPGQGTSPPARPHSPLRWPSPTPGGRSSELMDVATVQDILRDFVQKLREA  
QRERDDSRIQMATLSSRLSEAECCRCARAQSRVGQLKALAEAEQGRRVEGALSSARAAR  
ALQKEALRRLEHLASVRAAGQEKRRLEQLETLRQALEESRRHSQGLAKQGKLLLEEQL  
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>sp|Q6ZUX3|CREC2\_HUMAN Crescerin-2 OS=Homo sapiens GN=FAM179A PE=2 SV=2

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EPSQLLRGLGQLGGLKLDTPSKGWQARNGHPRNLRLSLGDQPLVLLPSPSEANSVARD  
TIQIKDKLKKRRLSEGLAASSRASLDPGGGPQGVPLHSTIPRATSQRLLRVPRPMPLIQS  
IPTTPEASGVKEKGLDLPGSIPGHELPRGAQEAQISWQYLHCNDEKMQKSLGAIVIPPI  
PKARTVAATPSRVPGSLPSPLPGQGVLTGLRAPRTRLARGSGPREKTPASLEPKPLASP  
IRDRPAAAKPALPFSQSAPTLTAFSFDCAEACPLKEEDQKEIGTKIQVTISKSAREK  
MQLKQMKEMELLRRLEEPRTGQELTSQCLGSQRAFMKEGLPLRGSGTLSVPTRLGSGPCR  
NDVSIILRKWASRASLPSIPISRQEPRFARHASANSLPAVLTLGSPWEEMDLRACK  
ELRPFSNPGLRDLALQCLNSSDWQMKGLVSIQRLAACHSEVLTKLHDVCLVVTGEV  
TNLRKSVSHLAISTLGDLFQALKKNMDQEAEEIARCLLQKMADTNEFIQRAAGQSLRAMV  
ENVTLARSLVVLTSAGVYHRNPLIRKYAAEHL SAVLEQIGA EKLLSGTRDSTDMLVHNLV



RLAQDSNQDTRFYGRKMVNILMANTKFDAFLKQSLPSYDLQKVMAAIKQQGIEDNDELPS  
AKGRKVLRSLVVCENGLPIKEGLSCNGPRLVGLRSTLQGRGEMVEQLRELTRLLEAKDFR  
SRMEGVGQLELCKAKTELVT AHLVQVFDAFTPRLQDSNKKVNQWALESAKMIPLRES  
LHPMLLSIIITVADNLNSKNSGIYAAAVAVLDAMVESLDNLCLLPALAGRVRFLSGRAVL  
DVTDRLAVLVASVYPRKPQAVRHVLPILWHFLNTATRNGTLPGPSGNIRGVVCRLSRSL  
QEHMGSRLLDFAASQPKHVLTQLQELLDSESLGGSRKATDRGVAPDSKTTGSSYPFQLD

>sp|P06850|CRF\_HUMAN Corticoliberin OS=Homo sapiens GN=CRH PE=1 SV=1

MRLPLLVSAGVLLVALLPCPPCRALLSRGPVPGARQAPQHPQPLDFFQPPPQSEQPQQPQ  
ARPVLLRMGEEYFLRLGNLNSKSPAAPLSPASSLLAGGSGSRPSPEQATANFFRVLLQQLL  
LPRRSLDSPAALAERGARNALGGHQEAPERERRSEPPISLDLTFHLLREVLEMARAEQL  
AQQAHSNRKLMEIIGK

>sp|P07315|CRGC\_HUMAN Gamma-crystallin C OS=Homo sapiens GN=CRYGC PE=1 SV=2

MGKITFYEDRAFGQRSYETTTDCPNLQPYFSRCNSIRVESGCWMLYERPNIYGGQYLLRR  
GEYPDYQQWMGLSDSIRSCCLIPQTVSHRLRLYEREDHKGLMMELSEDGPSIQDRFHLSE  
IRSLHVLGECWVLYELPNYGRQYLLRPQEYRRCQDWGAMDAKAGSLRRVVDLY

>sp|P24387|CRHBP\_HUMAN Corticotropin-releasing factor-binding protein OS=Homo sapiens  
GN=CRHBP PE=1 SV=2

MSPNFKLQCHFILIFLTALRGESRYLELREAADYDPFLLFSANLKRELAGEQPYRRALRC  
LDMLSLQGQFTFTADRPQLHCAAFFISEPEEFITIHVDQVSIDCQGGDFLKVFDGWILKG  
EKFSSQDHPLSAERYIDFCESGLSRRSIRSSQNVAMIFFRVHEPGNGFTLTIKTDPNL  
FPCNVISQTPNGKFTLVVPHQHRNCSFSIIYPVVIKISDLTLGHVNGQLKKSSAGCEGI  
GDFVELLGGTGLDPSKMTPLADLCYPFHGPAQMKVGCNTVVRMVSSGKHVNRVTFEYRQ  
LEPYELENPNGNSIGEFCLSGL

>sp|P52943|CRIP2\_HUMAN Cysteine-rich protein 2 OS=Homo sapiens GN=CRIP2 PE=1 SV=1

MASKCPKCDKTVYFAEKVSSLGKDWHKFCLKCERCSKTLTPGGHAEHDGKPFCHKPCYAT  
LFGPKGVNIGGAGSYIYEKPLAEGPQVTGPIEVPAARAEERKASGPPKGPSRASSVTFT  
GEPNTCPRCSKKVYFAEKVTSLGKDWHRPCLRCERCGKTLTPGGHAEHDGQPYCHKPCYG  
ILFGPKGVNTGAVGSYIYDRDPEGKVQP

>sp|Q86T23|CROL1\_HUMAN Putative ciliary rootlet coiled-coil protein-like 1 protein  
OS=Homo sapiens GN=CROCCP2 PE=5 SV=1

MLQAKKTEVAEALTKAEAGRMELELSVTKLRAEEASLQDSLKLSALNESLAQDKLDLNC  
LVTQLEEEKAMLQGRQRQAEQEATVAPAEQEWLEELWLEQEVARQGLEGSL

>sp|Q9Y2V7|COG6\_HUMAN Conserved oligomeric Golgi complex subunit 6 OS=Homo sapiens GN=COG6  
PE=1 SV=2

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STFFVENSRLTRRNLRGDIERKSLAINEEFVSIFKEVKEELESISEDVQAMSNCCQDMTS  
RLQAAKEQTQDLIVKTTKLQSESQKLEIRAQVADAFLSKFQLTSDEMSLLRGRTREGPITE  
DFFKALGRVKQIHNDVKVLLRTNQQTAGLEIMEQMALLQETAYERLYRWAQSECRILTQE  
SCDVSPVLTQAMEALQDRPVLYKYTLDEFGTARRSTVVRGFIDALTRGGPGGTPRPIEMH  
SHDPLRYVGDMWLWLHQATASEKEHLEALLKHVTTQGVEENIQEVVGHITGVCRPLKVR  
IEQVIVAEPGAVLLYKISNLLKFYHHTISGIVGNSATALTTIEEMHLLSKKIFFNSLSL  
HASKLMDKVELPPPDGLPSSALNQTLMLLREVLASHDSSVVPLDARQADFVQVLSVLDP  
LLQMCTVSASNLGTADMATFMVNSLYMMKTTLALFEFTDRRLEMLQFQIEAHLDTLINEQ  
ASYVLTRVGLSYIYNTVQQHKPEQGSLANMPNLDSVTLKAAMVQFDRYLSAPDNLLIPQL

NFLLSATVKEQIVKQSTELVCRAYGEVYAAVMNPINEYKDPENILHRSPQQVQTLLS

>sp|P83436|COG7\_HUMAN Conserved oligomeric Golgi complex subunit 7 OS=Homo sapiens GN=COG7  
PE=1 SV=1

MDFSKFLADDFDVKEWINAAFRAGSKEAASGKADGHAATLVMKLQLFIQEVNHAVEETSH  
QALQNMPKVLRDVEALKQEASFLKEQMILVKEDIKKFEQDTSQSMQVLVEIDQVKSARMQL  
AAESLQEADKWSTLSADIEETFKTQDIAVISAKLTGMQNSLMMLVDPDYSEKCVHLEAL  
KNRLEALASPQIVAAFTSQAVDQSKVFVKVFTIDRMPQLLAYYYKCHKVQLLAAWQELC  
QSDLSLDRQLTGLYDALLGAWHTQIQWATQVFQKPHEVVMVLLIQTLGALMPSLPSCLSN  
GVERAGPEQELTRLLEFYDATAHFAKGLEMAPLPHLHEHNLVKVTELVDVYDPYKPYQL  
KYGDMEESNLLIQMSAVPLEHGEVIDCVQELSHSVNKLFLASAAVDRCVRFTNGLGTCG  
LLSALKSLFAKYVSDFTSTLQSIKKCKLDHIPPNSLFQEDWTAQNSIRIIATCGELLR  
HCGDFEQQLANRILSTAGKYLSDSCSPRSLAGFQESILTDKNSAKNPWQEYNYLQKDNP  
AEYASLMEILYTLKEKGSSNHNLLAAPRAALTRLNQQAHQLAFDSVFLRIKQQLLLISKM  
DSWNTAGIGETLTDELPAFSLTPLEYISNIGQYIMSLPLNLEPFVTQEDSALELALHAGK  
LPFPPEQGDELPELNDMADNWLGSARATMQTYCDAILQIPELSPHSAKQLATDIDYLIN  
VMDALGLQPSRTLQHIVTLLKTRPEDYRQVSKGLPRRLATTVATMRSVNY

>sp|Q14993|COJA1\_HUMAN Collagen alpha-1(XIX) chain OS=Homo sapiens GN=COL19A1 PE=1 SV=3

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DSFSLRRAFCESDKTCFKLGSALLIRDTIKIFPKGLPEEYSVAAMFRVRRNAKKERWFLW  
QVLNQQNIPQISIVVDGKKVVEFMFQATEGDVLNYIFRNRELRLPLFDRQWHKLGISIQS  
QVISLYMDCNLIARRQTDEKDTVDFHGRTVIATRASDGKPVDELHQLKIYCSANLIAQE  
TCCEISDTKCPEQDGFGNIASSWVTAHASKMSSYLPKQELKDQCQIPNKGEAGLPGAP  
GSPGQKGHGKGEPEGNHLHGAPGFPGQKEQGFEQSGKETGEKGEQGEKGDPALAGLNGEN  
GLKGDLPHPGPPGPKGEKGTGPPGPPALPGSLGIQGPQGPQKEGQRGRGKTGPPGKP  
GPPGPPGPPGIQGIHQTLGGYYNKDNKGNDHEAGGLKGDKGETGLPGFPGSVGPKGQKG  
EPGEPFTKGEKGRGEPGVIGSQGVKGEPDGPPLIGSPGLKGQGSAGSMGPRGPPG  
DVGLPGEHGIPGKQGIKGEKGDGGIIGPPGLPGPKGEAGPPGKSLPGEPGLDGNPGAPG  
PRGPKGERGLPGVHGSPGDIGPQIGIPGRTGAQGPAGEPGIQQPRGLPGLPGTPGTGN  
DGVPRDGGKPLGPPGDPIALPLLGDIGALLKNFCGNCQASVPGLKSNKGEEGAGEPG  
KYDSMARKGDIGPRGPPGIPGREGPKGSKGERGYPGIPGEKGDEGLQGIPGIPGAPGPTG  
PPGLMGRTHPGPTGAKGEKGSDDPPGKPGPPGPPGIPFNERNMGSSLYKIKGGVNVPSY  
PGPPGPPGPKGDPGPVGEPEGAMGLPGLEGFPGVKGDRGPAGPPGIAGMSGKPGAPGPPGV  
PGEPGERGPVGDIGFPGPEGPSGKPGINGKDGIPGAQGIMGKPGDRGPKGERGDQGIPGD  
RGSQGERGKPLTGMKAIGPMGPPGNGKSMGSPGHQPPGSPGIPGIPADAVSFEEIKK  
YINQEVLRIFEERMAVFLSQLKLPAAMLAAQAYGRPGPPGKDGLPGPPGDPGPQGYRGQK  
GERGEPGIGLPGSPGLPGTSALGLPGSPGAPGPQPPGPGSGRCNPEDCLYPVSHAHQRTG  
GN

>sp|A8K830|COLC2\_HUMAN Colorectal cancer-associated protein 2 OS=Homo sapiens GN=COLCA2  
PE=2 SV=1

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>sp|Q8NFW1|COMA1\_HUMAN Collagen alpha-1(XXII) chain OS=Homo sapiens GN=COL22A1 PE=2 SV=2

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VANLVDTFEVGPDRTVRVGVVRYSDRPTTAFELGLFGSQEEVKAAARRLAYHGGNTNTGDA  
LRYITARSFSPHAGGRPRDRAYKQVAILLTDGRSQDLVLDAAAAAHRAGIRIFAVGVGEA  
LKEELEETASEPKSAHVHVSDFNAIDKIRGKLRRLCENVLCPSVRVEGDRFKHTNGGT  
KEITGFDLMDLFSVKEILGKRENGAQSSYVRMGSFPVVQSTEDVFPQGLPDEYAFVTTFR  
FRKTSRKEDWYIWQVIDQYSIPQVSIRLDGENKAVEYNAVAMKDAVRVVFRGSRVNDLF  
DRDWHKMAISIQQNVSLHIDCALVQTLPIEERENIDIQKKTIVIGKRLYDSVPIDFDLQR  
IVIYCDSRHAELETCCDIPSGPCQVTVVTEPPPPPPQRPPTPGSEQIGFLKTINCSCPA  
GEKGEMGVAGPMGLPGPKGDIGAIGPVGAPGPKGEKGDVGIGPFGQGEKGEKGSGLPGP  
PGRDGSKGMRGEPGELGEPGLPGEVGMRGPPGLPGPPGRVGAPGLQGERGEKGTGE  
KGERGLDGFPGKPGDTGQQGRPGPSGVAGPQGEKGDVGPAGPPGVPGSVVQQEGLKEQG  
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VPGPPGPGSPGLPGEIGFPGKPGPPGPTGPPGKDGPNPPGPPGTKGEPGERGEDGLPG  
KPGLRGEIGEQLAGRPGEKEAGLPGAPGFPVGRGEKGDQGEKGLGLPGLKGDREKGE  
EAGPAGPPGLPGTSLFTPHRMPGEQGPKEKGDPLGEPGLQGRPGEGLPGQGTGPP  
GAKGQEGAHGAPGAAGNPGAPGHVGAPGPSGPPGAPGLRGTPGKDGGERGEKAAGEE  
GSPGPVGRDGPAGPLPGPPGKGDGEPGLRGSPGLPGPLGTAAACGKVRGSENCALGG  
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GAPGNPGERGPPGKPLSSLLSPGDINLLAKDVCNDCPPGPPGLPGLPGFKGDKGVPGK  
GREGTEGKKGEAGPPGLPGPPGIAGPQGSQGERGADGEVGQKGDQHPGVPGFMGPPGNP  
GPPGADGIAGAAGPPGIQGSQGEKPPGPPGQPSGLPGIPGEEGKEGRDGKPGPPGEPGKA  
GEPGLPGEARGPPGFKGHTGDSGAPGRGESGAMGLPGQEGLPGKGDGTGTPGQGPQ  
GPRGPPGKNGSPGSPGEPGSGTPGQKGSKGENGSPGLPGFLGPRGPPGEPGEKGVPGKE  
GVPGKPGEPGFKGERGDPGKGDGPPGGKQPGDPGIPGHKHTGLMGPQGLPGENGVP  
GPPGPPGQPGFPLRGESPSMETLRRLIQEELGKQLETRLAYLLAQMPAYMKSSQGRPG  
PPGPPGKDGLPGRAGPMGEPGRPGQGGLEGPSGPIGPKGERGAKGDPGAPGVGLRGEMGP  
PGIPGQPGEPGYAKDGLPGIPGPQGETGPAGHPGLPGPPGPPGQCDPSQCAYFASLAARP  
GNVKG

>sp|Q86X83|COMD2\_HUMAN COMM domain-containing protein 2 OS=Homo sapiens GN=COMMD2 PE=1  
SV=2

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GVEGLTYLLTESSKLMISELDQSVFVLGFSEELNKKLLQLYLDNRKEIRTISELAPS  
LPSYHNLEWRLDVQLASRSLRQQIKPAVTIKLHLNQNGDHNTKVLQTDPATLLHLVQQLE  
QALEEMKTNHCRRVVRNIK

>sp|Q7Z4G1|COMD6\_HUMAN COMM domain-containing protein 6 OS=Homo sapiens GN=COMMD6 PE=1  
SV=1

MEASSEPLDAKSDVTNQLVDFQWKLGMVSSDTCRSLKYPYVAVMLKVADHSGQVKTKC  
FEMTIPQFQNFYRQFKEIAAVIETV

>sp|Q9NX08|COMD8\_HUMAN COMM domain-containing protein 8 OS=Homo sapiens GN=COMMD8 PE=1  
SV=1

MEPEEGTPLWRLQKLPAELGPQLLHKIIDGICGRAYPVYQDYHTVWESEEWVHVEDIAK  
FFKAIIVGKNLPDEEIFQQLNQLNSLHQUETIMKCVKSRKDEIKQALSREIVAISQAQLQDF  
DWQVKLALSSDKIAALRMPLLSLHLDVKENGVEKPYSIEMSREELQNLIQSLEAANKVVL  
QLK

>sp|Q9Y6G5|COMDA\_HUMAN COMM domain-containing protein 10 OS=Homo sapiens GN=COMMD10 PE=1 SV=1

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FSLEKQDLHLVLETISFILEQAVYHNVKPAALQQQLENIHLRQDKAEAFVNTWSSMGQET  
VEKFRQRILAPCKLETVGWQLNLQMAHSAQAKLKSPQAVLQLGVNNE DSKSLEKVLVEFS  
HKELDFYFNKLETIQAQLDSL T

>sp|Q17RW2|COOA1\_HUMAN Collagen alpha-1(XXIV) chain OS=Homo sapiens GN=COL24A1 PE=1 SV=2

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FLFSIRNKNRLQLGVQLLPKKLVVHIRGKQPAVFNYSVHDEQWHSFAITIRNQSVSMFVE  
CGKKYFSTETIPEVQTFDSNSVFTLGSMNNNSIHFEGIVCQLDIIPSAEASADYCRYVKQ  
QCRQADKYQPETSIPCTTLIPTKIPEHSPPP KLF AEKVLSEDTFTEGKSIPNIIKNDSET  
VYKRQEHQISRSQ LSSLQSGNVS AVDLTNHGIQAKEMITEEDTQTNFSLSVTTHRIS EAK  
MNTKEKFSSLLNMSDNITQHDDRVTGLSLFKKMPSILPQIKQDTITNLKKAITANLHTNE  
LMEQPILNTSLHRVTNEPSVDNHLDLRKEGEFY PDATYPIENSYETELYDY YYYEDLNT  
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FSPGQPVPGEKGDQGLSGLMGPPGMQGD KGLKGHPGLPGLPGEQGIPGFAGNIGSPGYPG  
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PAGLDGSPGLVGGTGPPGFPGLRGSVGPVGPIGPAGIPGPMGLSGNKGLPGIKGDKGEQG  
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QNGPEGPKGLLGNRPPGPPGLKGTQGE EGP IGA FGELGPRGKPGQKGYAGEPGPEGLKG  
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PIGPLGLPGHV GARGPPGSQGP KQRGSRGPDGLLGEQGIQGAKEKGDQKRGPHGLIG  
KTGNPGERGFQGKPLQLGLPGSTGDRGLPGEPLRGLQGDVGP PGEMGMEGPPGTEGESG  
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KSGPKGARGTRGAVGHLGLMPDGEPGIPGYRGHQGQPGPSGLPGPKGEKGYPGEDSTVL  
GPPGPRGEPGPVGDQGERGEPGAEGYKGHVGPGLRGATGQQGPPGEPGDQGEQGLKGER  
GSEGNKGGK GAPGPSKPGIPGLQGLLGP KGIQGYHGADGISGNPGKIGPPGKQGLPGIR  
GGPGR TGLAGAPGPPGVKGSSGLPGSPGIQGPKEQGLPGQPGIQGKRGH RGAQGDQGPC  
GDPGLKGQPGEYGVQGLTGFQGFPGPKGPEG DAGIVGISGPKGPIGHRGNTGPLGREGII  
GPTGR TGRPEKGF RGETGPQGPRGQPGPPGPPGAPGPRKQMDINAAIQALIESNTALQM  
ESYQNT E VTLIDHSEEIFKTLN YLSNLLHSIKNPLGTRDNP ARICKDLLNCEQK VSDGKY  
WIDPNLGCPSDAIEVFCNF SAGGQTCLPPVSVTKLEFGVGKVQMNFLHLLSSEATHIITI  
HCLNTPRWTSTQTS GPGLPIGFKGWNGQIFKVNTLLEPKVLSDDCKIQDGSWHKATFLFH  
TQEPNQLPVIEVQKLP HLKTERKYYIDSSSVCFL

>sp|P35606|COPB2\_HUMAN Coatomer subunit beta' OS=Homo sapiens GN=COPB2 PE=1 SV=2

MPLRLDIKRKL TARS DRVKSVDLHPTEPWMLASLYNGSV CVWNHETQTLVKTFEVC DLPV  
RAAKFVARKNVVVTGADDMQIRVFNYNTLERVHMF EAHS DYIRCI AVHPTQPFILTSSDD  
MLIKLWDWDKKWSCSQVFEGH THYVMQIVINPKDNNQFASASLDRTIKVWQLGSSSPNFT  
LEGHEKGVNCIDYYSGGDKPYLISGADDRLVKIWDYQNKTCVQTLEGHAQNVSCASFHPE  
LP IIITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASLRGSNNVALGYDEGSIIVKLG  
REEPAMSDANGKIIWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGSCEIYPQTIQH  
NPNGRFVVVCGDGEYIIYTAMALRNKSFGSAQEFAWAHDSSEYAIRESNSIVKIFKNFKE

KKSFKPDFGAESYGGFLLGVRVNLAFYDWDNTELIRRIEIQPKHIFWSDSGELVCIA  
TEESFFILKYLSEKVLAAQETHEGVTEGIEDAFEVLGEIQEIVKTGLWVGDCFIYTSSV  
NRLNYYVGGEIVTIAHLDRMTYLLGYIPKDNRLYLGDKELNIIISYLLVSVLEYQTAVMR  
RDFSMAADKVLPTIPKEQRTRVAHFLEKQGFQKQALTVSTDPEHRFELALQLGELKIAYQL  
AVEAESEQKWKQLAELAISKCFGLAQECLHHAQDYGGLLLLATASGNANMVNKLAEAGAE  
RDGKNNVAFMSYFLQGKVDACLELLIRTGRLPEAAFLARTYLPQSQRVVKLWRENLSKV  
NQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYPLVTPNEERNVMEEGK  
DFQPSRSTAQQELDGKPASPTPVIVASHTANKEEKSLELEVDLDNLELEDIDTTDINLD  
EDILDD

>sp|P48444|COPD\_HUMAN Coatomer subunit delta OS=Homo sapiens GN=ARCNI PE=1 SV=1

MVLLAAAVCTKAGKAIIVSRQFVEMTRTRIEGLLAAFPCLMNTGKQHTFVETESVRYVYQP  
MEKLYMVLITTKNSNILEDLETLRFLSRVPIPEYCRALLEENEISEHCFDLIFAFDEIVALG  
YRENVNLAQIRTFTEMDSHEEKVFRVAVRETQEREAKAEMRRKAKELQQARRDAERQGKKA  
PGFGGFGSSAVSGGSTAAMITETIIETDKPKVAPAPARPSGPSKALKLGAKEVDNFVD  
KLKSEGETIMSSSMGKRTSEATKMHAPPINMESVHMKIEEKITLTCGRDGGQLNMELHGM  
IMLRISDDKYGRIRLHVENEDKKGVQLQTHPNVDKKLFTAESLIGLKNPEKSFPVNSDVG  
VLKWLRLQTTEESFIPLTINCWPSESGNGCDVNIEYELQEDNLELNDVVITIPLPSGVGAP  
VIGEIDGEYRHDSRRNTLEWCLPVIDAKNKSGLSLEFSIAGQPNDFFPVQVSFVSKKNYCN  
IQVTKVTQVDGNSPVRFTSTETFLVDKYEIL

>sp|O14579|COPE\_HUMAN Coatomer subunit epsilon OS=Homo sapiens GN=COPE PE=1 SV=3

MAPPAPGPASGGSGEVDLFDVKNFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAY  
LAQRKFGVVLDEIKPSSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNTTFL  
LMAASIYLDHQNPDAAALRALHQGDSLECTAMTVQILLKLDRLDLARKELKRMQDLDEDAT  
LTQLATAWVSLATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAACHMAQGRWEAAEGLLQ  
EALDKDSGYPETLVNLIVLSQHLGKPPEVTNRYLSQLKDAHRSHPFKEYQAKENDFDRL  
VLQYAPSA

>sp|Q9Y678|COPG1\_HUMAN Coatomer subunit gamma-1 OS=Homo sapiens GN=COPG1 PE=1 SV=1

MLKKFDKDEESGGGSPNFQHLEKSAVLQEARVFNETPINPRKAHILTKILYLINQGEH  
LGTTEATEAFFAMTKLFQSNPTLRRMCYLTIKEMSCIAEDVIVTSSLTGDMTGKEDNY  
RGPVAVRALCQITDSTMLQAIERYMKQAIVDKVPVSSSALVSSLHLLKCSFDVVKRWVNE  
AQEAASSDNIMVQYHALGLLYHVRKNDR LAVNKMISKVTRHGLKSPFAYCMMIRVASKQL  
EEEDGSRDSPLDFDIESCLRNKHEMVVYEAASAIVNLPGCSAKELAPAVSVLQLFCSSPK  
AALRYAAVRTLNKVMKHPSAVTACNLDLENLVTDNRSIATLAITTLKTGSESSIDRL  
MKQISSFMSEISDEFKVVVVQAISALCQKYPRKHAVLMNFLTMLREEGGFEYKRAIVDC  
IISIIEENSESKETGLSHLCEFIEDCEFTVLATRILHLLGQEGPKTTNPSKYIRFIYNRV  
VLEHEEVRAVAVSALAKFGAQNEMLP SILVLLKRCVMDDDNEVRDRATFYLVNLEQKQK  
ALNAGYILNGLTVSIPGLERALQQYTLEPSEKPFDLKSVPLATAPMAEQRTSTPITAVK  
QPEKVAATRQEIQEQLAAPVEFRGLGPLFKSSPEPVALTESETEYVIRCTKHTFTNHMV  
FQFDCNTLNDQTLNENTVQMEPTAEYVLCYVPARSLPYNQPGTCYTLVALPKEDPTAV  
ACTFSCMMKFTVKDCDPTTGETDDEGYEDEYVLEDLEVTADHIQKVMKLNFEAAWDEVG  
DEFEKEETFTLSTIKTLEEAVGNIVKFLGMHPCERSDKVPDNKNTHTLLLAGVFRGGHDI  
LVRSRLLLLDVTMQVTARSLEELPVDIILASVG

>sp|O15431|COPT1\_HUMAN High affinity copper uptake protein 1 OS=Homo sapiens GN=SLC31A1  
PE=1 SV=1

MDHSHHMGMSYSDNSTMQPSHHPTTSASHSHGGDSSMMMPMTFYFGFKNVELLFSG  
LVINTAGEMAGAFVAVFLLAMFYEGLKIARESLLRKSQVSIRYNSMPVPGPNGTILMETH  
KTVGQQMLSFPHLLQTVLHIIQVVISYFLMLIFMTYNGYLCIAVAAGAGTGYFLFSWKKA  
VVVDITEHCH

>sp|Q9Y2Z9|COQ6\_HUMAN Ubiquinone biosynthesis monooxygenase COQ6, mitochondrial OS=Homo sapiens GN=COQ6 PE=1 SV=2

MAARLVSRGAVRAAPHSGPLVSWRRWSGASTDTVYDVVVS GGGLVGAAMACALGYDIHF  
HDKKILLLEAGPKKVLEKLSETYSNRVSSISPGSATLLSSFGAWDHICNMRYRAFRMQV  
WDACSEALIMFDKDNLDDMGYIVENDVIMHALTKQLEAVSDRVTVLYRSKAIRYTWPCPF  
PMADSSPWVHITLGDGSTFQTKLLIGADGHNSGVRQAVGIQNVSWNYDQSAVVATLHLSE  
ATENNVAWQRFLPSGP IALLPLSDTLSSLVWSTSHEHAAELVSMDEEFVDAVNSAFWSD  
ADHTDFIDTAGAMLQYAVSLLKPTKVSARQLPPSVARVDAKSRVLFPLGLGHAAEYVRPR  
VALIGDAAHRVHPLAGQGVMGFGDISSLAHHLSTA AFNGKDLGSVSHLTGYETERQRHN  
TALLAATDLLKRLYSTSASPLVLLRTWGLQATNAVSP LKEQIMAFASK

>sp|Q9BR76|COR1B\_HUMAN Coronin-1B OS=Homo sapiens GN=COR01B PE=1 SV=1

MSFRKVVVRQSKFRHVFVGQPVKNDQCYEDIRVSRVTWDSTFCAVNPKFLA VIVEASGGGAF  
LVLP LSKTGRIDKAYPTVCGHTGPVLDIDWCPHNDEVIASGSEDC TMVWQIPENGLTSP  
LTEPVVLEGHTRKVGIIA WHPTARNVLLSAGCDNVLIWNVGTAEELYRLDSLHPDLIY  
NVSWNHNGSLFCSACKDKSVRIIDPRRGTLVAEREKAHEGARPMRAIFLADGKVFTTGFS  
RMSERQLALWDPENLEEPMALQELDSSNGALLPFYDPDTSVVYVCGKGDSSIRYFEITEE  
PPYIHLNTFTSKEPQRGMGSMKRGLEVSKCEIARFYKLHERKCEI VMTVPRKSDLFQ  
DDLYPD TAGPEAALEAEWVSGRDADPILISLREAYVPSKQRDLKISRRNVLSDSRPAMA  
PGSSHLGAPASTTTAADATPSGSLARAGEAGKLEEV MQELRALRALVKEQGDRICRLEEQ  
LGRMENGDA

>sp|Q8IZC6|CORA1\_HUMAN Collagen alpha-1(XXVII) chain OS=Homo sapiens GN=COL27A1 PE=1 SV=1

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SPAPPGVIPFQSGFIFTQRARLQAPTGTVIP AALGTELALVLSLCSHRVNHAFLFAVRSQ  
KRKLQLGLQFLPGKTVVHLGSRRSVAFDLDMDGRWHHLALELRGRTVTLVTACGQRRVP  
VLLPFHRDPALDPGGSFLFGKMNPHAVQFEGALCQFSIYPVTQVAHNYCTHLRKQCGQAD  
TYQSPLGLPFSQDSGRPFTFQSDLALLGLENLTATPALGSLPAGRGPRGTVAPATPTKP  
QRTSPTNPQHMAVGGPAQTPLLP AKLSASNALDPMLPASVGGSTRTPRPAQAQPSQKIT  
ATKIPKSLPTKPSAPSTSIVPIKSPHPTQKTAPSSFTKSALPTQKQVPPTS RPVPARVSR  
PAEKPIQRNPGMPRPPPPSTRPLPPTTSSSKKPIPTLARTEAKITSHASKPASARTSTHK  
PPPF TALSSSPAPT PGSTRSTRPPATMVPPTSGTSTPRTAPAVPTPGSAPTGSKKPIGSE  
ASKKAGPKSSPRKPVPLRPGKAARDVPLSDLTTRPSPRQPQPSQQTTPALVLAPAQFLSS  
SPRPTSSGYSIFHLAGSTPFPLMGPPGPKGDCGLPGPPGLPGLPGIPGARGPRGPPGPY  
GNPGLPGPPGAKGQKGDPLSPGKAHDGAKGDMGLPGLSGNP GPPGRKGHKGYPGPAGHP  
GEQQQPGPEGSPGAKGYPRQGLPGPVGDPGPKGSRGYIGLPGLFGLPGSDGERGLPGVP  
GKRKGKMGMPGFPVGFGERGPPGLDGNPGELGLPGPPGV PGLIGDLGVLGPIGYPGPKGMK  
GLMGSVGEPGLKGDKEQGVPGVSGDPGFQGDKGSQGLPGFPGARGKPGPLGKVGDKGSI  
GFP GPPGPEGFPDGI GPPGDNGPEGMKGKPGARGLPGRGQLGPEGDEGPMGPPGAPGLE  
GQPGRKGFPGRPLDGVKGE PGDPGRPGVGEQGFMGFIGLVGEPGIVGEKGDRGMMGPP  
GVPGPKGSMGHPGMPGGMGTGPEPGPQGP GSRGPPGMRGAKGRRGPRGPDGPAGEQGSR  
GLKGPPGPQGRPGRPQQGVAGERGHLGSRGFPGIPGPSGPPGTKGLPGEPGPQGPQGP I

GPPGEMGPKGPPGAVGEPGLPGEAGMKGDLGPLGTPGEQGLIGQRGEPGLEGDSGPMGPD  
GLKGRDGPDPGEHGEKGQEGLMGEDGPPGPPGVTGVRGPEGKSGKQGEKGRTGAKGAK  
GYQGQLGEMGVPGDPGPPGTPGPKGSRGSLGPTGAPGRMGAQGEPLAGYDGHKGIVGPL  
GPPGPKGEKGEQGEDGKAEGPPGPPGDRGPVGDRGDRGEPGDPGYPGQEGVQGLRGKPGQ  
QQQPGHPGPRGWPGPKGSKGAEGPKGKQKAGAPGRRGVQGLQGLPGPRGVVGRQGLEGI  
AGPDGLPGRDGGAGQQGEQGGDDGDPGPMGPAGKRGNPGVAGLPGAQGPFGKGESGLPGQ  
LGPPGKRGTEGRTGLPGNQGEPSKQPGDSGEMGFGMAGLFGPKGPPGDIGFKGIQGP  
RGPPGLMGKEGIVGPLGILGPSGLPGPKGDKSRGDWGLQGPRGPPGPRGRPGPPGPPGG  
PIQLQQDDLGAAFQTMWDTSGALRPESYSYPDRLVLDQGGEIFKTLHYLSNLIQSITPL  
GTENPARVCRDLMCEQKMDGTYWDPNLGCSSDTIEVSCNFTHGGQTCLKPITASKV  
EFAISRVMNFLHLLSSEVTQHITIHCLNMTVWQEGTGQTPAKQAVRFRAWNGQIFEAGG  
QFRPEVSMDGCKVQDGRWHQTLFTFRTQDPQQPLPIISVDNLPPASSGKQYRLEVGPACFL

>sp|O00230|CORT\_HUMAN Cortistatin OS=Homo sapiens GN=CORT PE=2 SV=1

MPLSPGLLLLLLSGATATAALPLEGGPTGRDSEHMQEAAGIRKSSLLTFLAWWFEWTSQA  
SAGPLIGEAREVARRQEGAPPQQSARRDRMPCRNFFWKTFSSCK

>sp|Q2UY09|COL1A1\_HUMAN Collagen alpha-1(XXVIII) chain OS=Homo sapiens GN=COL28A1 PE=2  
SV=2

MWNRVVFYLLLLSAFTSQTIVSGQRKKGPKSNLLARKSDVQGSICFIDIVFIVDSSESSK  
IALFDKQKDFVDSLSDKIFQLTPGRSLEYDIKLAALQFSSSVQIDPPFSSWKDLQTFKQK  
VKSMNLIGQGTFSSYIAISNATRLKKREGKDGKVVLLMTDGDHHPKNPDVQSISEDARI  
SGISFITIALSTVVNEAKRLRISGDSSEPTLLSDPTLVDKIQDRDLILFEKKCERKIC  
ECEKGDPGDPGPPGTHGNPGIKGERGPKGNPGNAQKEAGERGPGGIPGYKGDKGERGEC  
GKPGIKGDKGSPGPYGPKGPRGIQGITGPPGDPGPKGFQGNKGEPGPPGPYGSPPGAPGIG  
QQGIKGERGQEGRPAGPGPIGVGEPGQPGPRGPEGVPGERGLPGEGFPGPKGEKGESEPT  
GPQGLQGLSIKGEKGDIGVPGPQPMGIPGIGSQGEQGIQGPIGPPGPQGPAGQGLPGSK  
GEVGMGPTGPRGPVIGVQGPKEPGSIGLPGQPGVPGEDGAAGKKGEAGLPGARGPEG  
PPGKGQPGPKGDEGKKGSKGNQGRGLPGEPGKEPGIMGPFMPGTIPGPPGPKGDR  
GGPGIPGFKGEPGLSIRGPKGVQPRGPVGAPGLKGDGYPGVPGPRGLPGPPGPMGLRGV  
GDTGAKGEPGVRGPPGSPGPRGVTGQPKGDTGQKGLPGPPGPPGYGSQGIKGEQGPQGF  
PGPKGTMGHGLPGQKGEHGERGDVGKKGDKEIGEPGSPGKQGLQGPKGDLGLTKEEIIK  
LITEICGCGPKCKETPLELVFVIDSSESVPENFQIIKNFVKTMADRVALLATARIGII  
NYSHKVEKVALNKQFSSKDDFKLAVDNMQYLGEQTYTATALQAANDMFEDARPGVKKVAL  
VITDGQTSRDKEKLTEVVKNASDTNVEIFVIGVVKNDPNFEIFHKEMNLIATDPEHVY  
QFDDFFTLQDTLKQKLFQKICEDFDSYLVQIFGSSSPQPGFGMSGEELSESTPEPQKEIS  
ESLSVTRDQDEDDKAPEPTWADDLPATTSSEATTTPRPLLSTPVDGAEDPRCLEALKPGN  
CGEYVVRWYYDKQVNSCARFWFSGCNGSGNRNFSEKECQETCIQG

>sp|Q14061|COX17\_HUMAN Cytochrome c oxidase copper chaperone OS=Homo sapiens GN=COX17  
PE=1 SV=2

MPGLVDSNPAPPESQEKKPLKCCACPETKKARDACIIIEKGEEHCGHLIEAHKECMRALG  
FKI

>sp|P00403|COX2\_HUMAN Cytochrome c oxidase subunit 2 OS=Homo sapiens GN=MT-CO2 PE=1 SV=1  
MAHAAQVGLQDATSPIMEELITFHDHALMIIFLICFLVLYALFLTLTTKLNTNISDAQE  
METVWTILPAIILVLIALPSLRILYMTDEVNDPSLTIKSIHQWYWTYEYTDYGGILFNS  
YMLPPLFLEPGDLRLLDVDNRVVLPIEAPIRMMITSQDVLHSAVPTLGLKTDALPGRNLN

QTTFTATRPGVYYGQCSEICGANHSFMPIVLELIPLKIFEMGPVFTL

>sp|Q8N9R0|CP081\_HUMAN Putative uncharacterized protein encoded by LINC00304 OS=Homo sapiens GN=LINC00304 PE=5 SV=2

MQYLHCCLQIAPNQEGMVQAGGQGHGLARVVLRAVLSPPCWAPHSPCGSPAATEAGRLMR  
RLPSVGGRMETAPKTPRFLTRRPPASSPEDPPLPHPKTPRFLTQRPPASLPRRPRFLTLP  
VSSHSSGDLRLWTAHQLPQQGGCPG

>sp|Q6V0L0|CP26C\_HUMAN Cytochrome P450 26C1 OS=Homo sapiens GN=CYP26C1 PE=2 SV=2

MFPWGLSCLSVLGAAGTALLCAGLLLSLAQHLWTLRWMLSRDRASTLPLPKGSMGWPFPG  
ETLHWLVQGSRFHSSRRERYGTVEFKTHLLGRPVIRVSGAENVRTILLGEHRLVRSQWPQS  
AHILLGSHTLLGAVGEPHRRRRKVLARVFSRAALERYVPRLQGALRHEVRSWCAAGGPVS  
VYDASKALTFRMAARILLGLRLDEAQCATLARTFEQLVENLFSPLDVPFSGLRKGIRAR  
DQLHRHLEGAISEKLHEDKAAEPGDALDLI IHSARELGHEPSMQELKESAVELLFAAFFT  
TASASTSLVLLLLQHPAAIAKIREELVAQGLGRACGCAPGAAGGSEGPPPDGCEPDLSL  
AALGRLRYVDCVVKVLRLLPPVSGGYRTALRTFELDGYQIPKGWSVMYSIRDTHETA  
YRSPPEGFDPERFGAAREDSRGASSRFHYIPFGGGARSCLGQELAQAVLQLLAVELVRTA  
RWELATPAFPAMQTVPIVHPVDGLRLFFHPLTPSVAGNGLCL

>sp|Q9UNU6|CP8B1\_HUMAN 7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase OS=Homo sapiens GN=CYP8B1 PE=1 SV=2

MVLWGPVLGALLVVIAGYLCLPGMLRQRRPWEPLDKGTVPWLGHAMAFRKNMFEFLKRM  
RTKHGDVFTVQLGGQYFTFVMDPLSFGSILKDTQRKLDGQYAKKLVLKVFGYRSVQGDH  
EMIHSASTKHLRGDGLKDLNETMLDSLSFVMLTSKGWSLDASCWHEDSLFRFCYYILFTA  
GYLSLFGYTKDKEQDLLQAGELFMEFRKFDLLFPRFVYSLWPREWLEVGRQLRQRFHKML  
SVSHSQEKEGISNWLGNMLQFLREQGVPSAMQDKFNFMMLWASQNGTGPTSFWALLYLLK  
HPEAIRAVREEATQVLGEARLETKQSFAFKLGALQHTPVLDSVVEETLRLRAAPTLLRLV  
HEDYTLKMSSGQEYLFRHGDILALFPYLSVHMDPDHPEPTVFKYDRFLNPNNGSRKVDFF  
KTGKKIHHTMPWGSVGSICPGRFFALSEVKLFILLMVTHFDLELVDPDTPPLPHVDPQRW  
GFGTMQPSHDVRFYRLHPT

>sp|Q8WVH0|CPLX3\_HUMAN Complexin-3 OS=Homo sapiens GN=CPLX3 PE=2 SV=1

MAFMVKTMVGGQLKNLTGSLGGGEDKGDGKSAAEAQMSREEEYEQQLVEEKMERDA  
QFTQRKAERATLRSHFRDKYRLPKNETDESQIQMAGGDVELPRELAKMIEEDTEEEEEK  
SVLGQLASLPGLNLGSLKDKAQTLDGLKQSAEKCHVM

>sp|P21554|CNR1\_HUMAN Cannabinoid receptor 1 OS=Homo sapiens GN=CNR1 PE=1 SV=1

MKSILDGLADTTFRITITDLYVGSNDIQYEDIKGDMSKLGYPQKFPLTSFRGSPFQE  
KMTAGDNPQLVPADQVNITEFYNSLSSEFKENEENIQCGENFMDIECFMVLNPSQQLAIA  
VLSLTGTFVLENLLVLCVILHSRSLRCRPSYHFIGSLAVADLLGSVIFVYSFIDFHVF  
HRKDSRNVFLFKLGGVTASFTASVGSFLTAIDRYISIHRPLAYKRIVTRPKAVVAFCLM  
WTIAIVIAVPLLGWNCEKLQSVCSDFPHIDETYLFWIGVTSVLLLFIVYAYMYILWK  
AHSHAVRMIQRGTQKSIIHTSEDGKVQVTRPDQARMDIRLAKTLVLILVVLIIICWGPLL  
AIMVYDVFGKMNKLIKTVFAFCMLCLLNSTVNPIIYALRSKDLRHAFRSMFSPCEGTAQ  
PLDNSMGDSCLHKHANNAASVHRAAESCIKSTVKIAKVTMSVSTDTSAEAL

>sp|O94779|CNTN5\_HUMAN Contactin-5 OS=Homo sapiens GN=CNTN5 PE=1 SV=2

MASSWKLMLFLSVTMCLSEYSKSLPGLSTSYAALLRIKKSSSSSLFGSKTRPRYSSPSLG  
TLSASSPSWLGAQNYYSPIINLHSSDAFKQDESVDYGPVVFVQEPDDIIFPTDSDEKKVA  
LNCEVRGNPVPSYRWLRNGTEIDLES DYRSLIDGTFIISNPSEAKDSGHYQCLATNTVG



SILSREATLQFAYLGNFSGRTRSAVSVREGQGVVLMCSPPPHSPEIIYSWVFNEFPSFVA  
EDSRRFISQETGNLYISKVQTSVGSYICLVKNTVTNARVLSPTPLTLRNDGVMGEYEP  
KIEVHFPFTVTAAGTTVKMECFALGNPVPTITWMKVNGYIPSKARLRKSQAVLEIPNVQ  
LDDAGIYECRAENSRGKNSFRGQLQVYTYPHWVEKLNDTQLDSGSPLRWECKATGKPRPT  
YRWLKNGVPLSPQSRVEMVNGVLMIHNVNQSDAGMYQCLAENKYGAIIYASAEKILASAP  
TFALNQLKKTIIIVTKDQEVVIECKPQGS PKPTISWKKGDRAVRENKRIAILPDGSLRILN  
ASKSDEGKYVCRGENVFGSAEIIASLSVKEPTRIELTPKRTELTVGESIVLNCKAIHDAS  
LDVTFYWLKGGPIDFEEEGGHFESIRAQASSADLMIRNILLMHAGRYGCRVQTTADSVS  
DEAELLVRGPPGPGIVIVEEITESTATLSWSPAADNHSPISSYNLQARSPPFSLGWQTVK  
TVPEIITGDMEAMAVDLNPWVEYEFVATNPIGTGDPTSPSRMIRTNEAVPKTAPTNV  
SGRSGRRHELVIWEPVSEEFQNGEGFGYIVAFRPNPTRGWKEKMTSSEASKFIYRDES  
VPPLTPFEVKGVVNNKGDGPFQSVIVVICS AEGEPSAAPT DVKATSVSVSEILVAWKHIK  
ESLGRPQGFEVGYWKDMEQEDTAETVKTRGNESFVILTGLEGNTLYHFTV RAYNGAGYGP  
PSSEVSATTKKSPPSQAPSNLWEQQGSQVSLGWEPVIPLANESEVVG YKVFYRQEGHSN  
SQVIETQKLQAVVPLPDAGVYII EVRAYSEGGDGTASSQIRVPSYSGGKITSAQSTLHSL  
STSSSVTLALLMIPSTSW

>sp|Q9UQ52|CNTN6\_HUMAN Contactin-6 OS=Homo sapiens GN=CNTN6 PE=1 SV=1

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RWKQNGTDIDFTMSYHYRLDGGSLAINSPHTDQDIGMYQCLATNLLGTILSRKAKLQFAY  
IEDFETKTRSTVSVREGQGVVLLCGPPPHFGDLSYAWTFNDNPLYVQEDNRRFVSQETGN  
LYIAKVEPSDVGN YTCFITNKEAQRSVQGPPTPLVQRTDGMGEYEPKIEVRFPETIQAA  
KDSSVKLECFALGNPVDPISWRRLDGSPLPGKVKYSKSAILEIPNFQQEDEGFYECIAS  
NLGRNLAKGQLIFYAPPEWEQKIQNTHLSIYDNLLWECKASGKPNPWYTWLKNGERLNP  
EERIQUIENGTLIITMLNVSDSGVYQCAAENKYQIIYANAELRVLASAPDFSKSPVKKKSF  
VQVGGDIVIGCKPNAFPRAAISWKRGTETLRQSKRIFLLEDGSLKIYNITRSDAGSYTCI  
ATNQFGTAKNTGSLIVKERTVITVPPSKMDVTVGESIVLPCQVSHDPSIEVVFWVFNNGD  
VIDLKKGVAHFERIGGESVGDLMIRNIQLHHSGKYLCTVQTTLESLSAVADIIVRGPPGP  
PEDVQVEDISSTTSQLSWRAGPDNNSPIQIFTIQTRTPFSVGWQAVATVPEILNGKTYNA  
TVVGLSPWVEYEFVAVAGNSIGIGEPSESELLRTKASVPVAVPNIHGGGSRSELVIT  
WESIPEELQNGEGFGYIIMFRPVGSTTWSKEKVSSVESSRFVYRNESI IPLSPFEVKGV  
YNNEGEGSLSTVTIVYSGEDEPQLAPRGTSLSQSASEMEVSWNAIAWNRNTGRVLGYEV  
LYWTDDSKESMIGKIRVSGNVTTKNITGLKANTIFYASVRAYNTAGTGPSSPPVNVTTK  
SPPSQPPANIAWKLNSKLCLNWEHVKTMESEVLGYKILYRQNRQSKTHILETNNTSA  
ELLVPFEEDYLIEIRTVSDGGDGSSEEIRIPKMSSLSSRGIQFLEPSTHFLSIVIVIFH  
CFAIQPLI

>sp|Q9BZ76|CNTP3\_HUMAN Contactin-associated protein-like 3 OS=Homo sapiens GN=CNTNAP3  
PE=2 SV=3

MASVAWAVLKVLLLLPTQTWSPVGAGNPDCDAPLASALPRSSFSSSELSSSHGPGFSR  
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KQYRREESIWGFPNGTNADSVVHYRLQPPFEARFLRFLPLAWNPRGRIGMRIEYGCAYK  
SEVVYFDGQSALLYRLDKKPLKPIRDVISLKFAMQSN GILLHREGQHGNHITLELIK GK  
LVFFLNSGNAKL PSTIAPVTLTLGSLDDQHWSVLIELLDTQVNFTVDKHTHHFQAKGD  
SSYLDLNF EISFGGIPTPGRSRAFRRKSFHGCLENLYNGVDVTELAKKHKQILMMGNV  
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LFLKDGKLLSLFQPGQSPRNVTAGAGLNDGQWHSVSFSAKWSHMNVVDDDTAVQPLVA  
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GPLLCRGDQSFWNSASFNTETSYLHFPAPHGELTADVCFFFKTTVSSGVFMENLGITDFI  
RIELRAPTEVTFSFDVGNPCEVTVQSPTPFNDNQWHHVRAERNVKGASLQVDQLPQKM  
PAPADGHVRLQLNSQLFIGGTATRQRGFLGCIRSLQLNGVALDLEERATVTPGVEPGCAG  
HCSTYGHLCRNGGRCREKRRTGVTCDCAFSAYDGPFCSEISAYFATGSSMTYHFQEHYTL  
SENSSSLVSSLHRDVTLTREMITLSFRTRTPSLLLYVSSFYEEYLSVILANNGSLQIRY  
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LILKGVLEAAGADPDTRRAATSGFTGCLSAVRFGRAAPLKAALRPSGSPRVTVRGHVAPM  
ARCAAGAASGSPARELAPRLAGGAGRSGPADEGEPLVNADRRDSAVIGGVIAVIFILLC  
ITAIIRIYQQRKLKENESKVSKEEC

>sp|Q9Y2V0|CO041\_HUMAN Uncharacterized protein C15orf41 OS=Homo sapiens GN=C15orf41 PE=1  
SV=2

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INMLRDPSPQIPDGVLANQVYQCIVNDCCYGPLVDCIKHAIGHEHEVLLRDLLEKNLSF  
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>sp|P02462|CO4A1\_HUMAN Collagen alpha-1(IV) chain OS=Homo sapiens GN=COL4A1 PE=1 SV=3

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GIPGCNGTKGERGPLGPPGLPGFAGNPGLPGMKGDPGEILGHVPGMLLKGERGFPGI  
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PPGQPGYTNGIVECQPGPPGDQPPGIPGQPGFIGEIGEKQKGESCLICDIDGYRPPG  
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PGSAGEKGEPLPGRGFP  
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IDGVKGDKGNPGWPGAPGVPGPKGDPGFQGMPIGGSPGITGSKGDMGPPGVPGFQGPKG  
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GQQGVTVLGVIPGPPGIPGFDGAPGQKGEMGPAGPTGPRGFPPGPDGLPGSMGPPGTP  
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HSQTIQIPPCPSGWSSSLWIGYSFVMHTSAGAEGSGQALASPGSCLEEFRSAPFIECHGRG  
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>sp|P25067|C08A2\_HUMAN Collagen alpha-2(VIII) chain OS=Homo sapiens GN=COL8A2 PE=1 SV=2

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PGTRGPPGLIGPTGYMPGLPGPKGDRGPAGVPGLLGDREGEDEGEQGPQGLGGPP  
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GPTGPKGEPGFTGRPGPGVAGALGQKDLGLPGQPLRGPSGIPGLQGPAGPIGPQGLP  
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IAGLHLPNGGVEGAVLGKGGKQFGLGELSAHATPAFTAVLTSPFPASGMPVKFDRTLYN  
GHSGYNPATGIFTCPVGGVYFAYHVHVKGTVVWVALYKNNVPATYTYDEYKKGYLDAQS  
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>sp|P07357|C08A\_HUMAN Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2

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RSLQPNKFGGTICSGDIWDQASCSSSTTCVRQAQCGQDFQCKETGRCLKRHLVCNGDQD  
CLDGSEDDCEDVRAIDEDCSQYEPVPGSQKAALGYNILTQEDAQSVYDASYYGGCETV  
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KKDKSDSFGVTIGIGPAGSPLLVGVGVSQSQTSLNELNKNYNEKKFIFTRIFTKVQTAH  
FKMRKDDIMLDEGMLQSLMELPDQYNYGMYAKFINDYGYTHYITSGSMGGIYEYILVIDKA  
KMESLGITSRDITTCFGLGSLQYEDKINVGGLSGDHCKKFGGKTERARKAMAVEDII  
SRVRGSSGWSGGLAQNRSTITYRSWGRSLKYNPVVIDFEMQPIHEVLRHTSLGPLEAKR  
QNLRRALDQYLMFNACRCGPCFNNGVPILEGTSRCRCQRLGSLGAACEQTQTEGAKADG  
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>sp|P07360|C08G\_HUMAN Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3

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RFLQEQGHRAEATTLHVAPQGTAMAVSTFRKLDGICWVRQLYGDTGVLGRFLLQARDAR  
GAVHVVAETDYQSFAVLYLERAGQLSVKLYARSLPVSDSVLSGFEQVRVQEAHLTEDQIF  
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>sp|P20849|C09A1\_HUMAN Collagen alpha-1(IX) chain OS=Homo sapiens GN=COL9A1 PE=1 SV=3

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SQFQVDKAASRRAIQRVVGSATLQVAYKLGNVDFRIPTRNLYPSGLPEEYSFLTTFRMT  
GSTLKNWNIWQIQDSSGKEQVGIKINGQTQSVVFSYKGLDGLQTAAFSNLSSLFDSQW  
HKIMIGVERSSATLFVDCNRIESLPKPRGPIDIDGFAVLGKLADNPQVSVPFELQWMLI  
HCDPLRPRRETCHelparITPSQTDERGPPGEQGPVPPGPPGVPIDGIDGDRGPKGP

>sp|Q9Y2R0|COA3\_HUMAN Cytochrome c oxidase assembly factor 3 homolog, mitochondrial  
OS=Homo sapiens GN=COA3 PE=1 SV=1

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>sp|P13942|COBA2_HUMAN Collagen alpha-2(XI) chain OS=Homo sapiens GN=COL11A2 PE=1 SV=5
```

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>sp|Q5TAT6|CODA1\_HUMAN Collagen alpha-1(XIII) chain OS=Homo sapiens GN=COL13A1 PE=1 SV=1

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PGPPGPTGRPGLPGDKGAIGMPGRVGSPPDAGLSIIIGPRGPPGQPGTRGFPGFPGPIGLD  
GKPGHPGPKGDMGLTGPPGQPGPQQKGEKGCGEYPHRECLSSMPAALRSSQIIALKLL  
PLLNSVRLAPPPVIKRRTFQGEQSQASIQGPPGPPGPPGSGPLGHPGLPGMPGPPGLPG  
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PGLPGLLGQKGEKDAGNSIGGRGEPGPPGLPGPPGPKGEAGVDGQVPPGQPGDKGER  
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PGQKGEIGLPGPPGHDGEKGRPGKPGDMGPPGPGQPPGKDGPPGVKGENGHPGSPGEKGE  
KGETGQAGSPGEKGEAGEKGNPGAIEVPLPGPEGPPGPPGLQGVPGPKGEAGLDGAKGEK  
GFQGEKGDRGPLGLPGASGLDGRPGPPGTPGPIGVPGAPGKGERGSKGDPGMTGPTGAA  
GLPGLHGP PGDKGNRGERGKKGSRGPKGDKGDQGAPGLDAPCPLGEDGLPVQGCWNK

>sp|Q9UH73|COE1\_HUMAN Transcription factor COE1 OS=Homo sapiens GN=EBF1 PE=1 SV=2

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NLRKSNFFHFVLALYDRQGQPVIEIERTAFVGFVEKEKEANSEKTNNGIHYRLQLLYSNGI  
RTEQDFYVRLIDSMTKQAIIVYEGQDKNPEMCRVLLTHEIMCSRCCDKKSCGNRNETPSDP  
VIIDRFLLKFFLKCNQCNCLKNAGNPRDMRRFQVVVSTTVNVDGHVLAVSDNMFVHNSKH  
GRRARRLDPSEGTPSYLEHATPCIKAIISPSEGWTTGGATVIIIGDNFFDGLQVIFGTMLV  
WSELITPHAIRVQTTPRHIPGVVEVTL SYKSKQFCKGTPGRFIYTALNEPTIDYGFQRLQ  
KVIPRHGDPERLPKEVILKRAADLVEALYGMPHNNQEIIILKRAADIAEALYSVPRNHNQ  
LPALANTS VHAGMMGVNSFSGQLAVNVSEASQATNQGFTRNSSSVSPHGYVPSTTPQQTN  
YNSVTTSMNGYGSAAMSN LGGSPTFLNGSAANSPIAIVPSSPTMASSTSLPNCSSSSGI  
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>sp|Q05707|COE1\_HUMAN Collagen alpha-1(XIV) chain OS=Homo sapiens GN=COL14A1 PE=1 SV=3

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EKRKDPKPRVKVVDGRNGSRPSSPEEVKFVCQTPAIADIVILVDGSWSIGRFNFRLVRFH  
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LNYIFENSFKPEAGSRTGVSKIGILITDGKSQDDIIPPSRNLRESGVELFAIGVNADVN  
ELQEIASPDSTHVYNVAEFDLMHTVVESLRTLCSRVEEQDREIKASAHAITGPPTELI  
TSEVTARSMVNWTHAPGNVEKYRVVYYPTRGGKPDEVVVDGTVSSTVLKNLSLTEYQI  
AVFAIYAHTASEGLRGTTETLALPMASDLLLYDVTENSMRVKWDVPGASGYLILYAPLT  
EGLAGDEKEMKIGETHTDIELSGLLPNTEYTVTVYAMFGEEASDPVTGQETTLALSPRN  
LRISNVGSNSARLTWDPTSRQINGYRIVYNADGTEINEVEVDPITTFPLKGLTPLTEYT  
IAIFSIIYDEGQSEPLTGVTTEEVPAQQYLEIDEVTTDSFRVTWHPLSADEGLHKLMWIP  
VYGGKTEEVVLKEEQDSHVIEGLEPGTEYEVSLLA VLDDGSESEVVTAVGTTLDSFWTEP  
ATTIVPTTSVTSVFQTGIRNLVVGDETTSSLRVKWDISDSVQQFRVTYMTAQGDPEEEV  
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WYNRLRITWDPPSSPVKGYRIVYKPVSVPGPTLET FVGADINTILITNLLSGMDYNVKIF  
ASQASGFSDALTMVKTLFLGVTNLQAKHVEMTSLCAHWQVHRHATAYRVVIESLQDRQK  
QESTVGGGTTRHCFYGLQPDSEYKISVYTKLQEI EGPSVSIMEKTQSLPTRPPTFPPTIP  
PAKEVCKAAKADLVFMVDGSWSIGDENFNKIIISFLYSTVGALNKIGTDGTQVAMVQFTDD

PRTEFKLNAYKTETLLDAIKHISYKGGNTKTGKAIKYVRDTLFTAESGTRRGIPKVIVV  
ITDGRSQDDVNKISREMQLDGYSIFAIGVADADYSELV SIGSKPSARHVFVDDFDAFKK  
IEDELITFVCETASATCPVVKHKGIDLAGFKMEMFGLVEKDFSSVEGVSMEPGTFNVFP  
CYQLHKDALVSQPTRYLHPEGLPSDYTISFLFRILPDTQEPFALWEILNKNSDPLVGVI  
LDNGGKTLTYFNQDQSGDFQTVTFEGPEIRKIFYGSFHKLHIVVSETLVKVVIDCKQVGE  
KAMNASANITSDGVEVLGKMVRSRGPGGNSAPFQLQMFDIVCSTSWANTDKCCELPGLRD  
DESCPDLPHSCSCSETNEVALGPAGPPGGPGLRGPKGQQGEPGPKGPDGPRGEIGLPGPQ  
GPPGPQGPSGLSIQGMPPGMPGEKGEKGDGLPGPQGIPGGVGSPGRDGSQGRGLPGKDG  
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RQVCEQLIQSHMARYTAILNQIPSHSSSIRTQVQPPGEPGRPGSPGAPGEQPPGTPGFP  
GNAGVPGTPGERGLTGIKGEKGNPGVGTQGPRGPPGAPSPGESRPGSPGPPGSPGPRGP  
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>sp|P39059|COFA1\_HUMAN Collagen alpha-1(XV) chain OS=Homo sapiens GN=COL15A1 PE=1 SV=2

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GLRLSGVEDGHQRIILYYTEPGSHVSQEAFAFSVPVMTHRWNRFAMIVQGEEVTLLVNCE  
EHSRIPFQRSSQALAFESSAGIFMGNAGATGLERFTGSLQQLTVHPDPRTPPEELCDPEES  
SASGETSGLQEADGVAEILEAVTYTQASPKEAKVEPINTPPTSSPFEDMELSGEPVPEG  
TLETTNMSIIQHSSPKQGSGEILNDTLEGVHSVDGDPITDSGSGAGAFLDIAEEKNLAAT  
AAGLAEPVISTAGEAEASSVPTGGPTLSMSTENPEEGVTPGPDNEERLAATAAGEAEALA  
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VPTDGLAPLTATMAPERA VTS GPGDEEDLAAATTEEPLITAGGEESGSPPPDGPPLPLPT  
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PGLPGPPGFGRPGDPGPPGPPGPPGPPAILGAAVALGPPGPPGQPLPGSRNLVTAFSN  
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LLPPNPPISSANYEKPALHLAALNMPFSGDIRADFQCFKQARAAGLLSTYRAFLSSHLQD  
LSTIVRKAERYSLPIVNLKGQVLFNNWDSIFS GHGGQFNMHIPIYSFDGRDIMTDPSPWQ  
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SFMTDARK

>sp|P01189|COLI\_HUMAN Pro-opiomelanocortin OS=Homo sapiens GN=POMC PE=1 SV=2

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PEPRSDGAKPGPREGKRSYSMEHFRWGKPVGKKRRPVKVYPNGAEDESAAEPLEFKREL  
TGQRLREGDGPDPADGAGA QADLEHSLLVAAEKKDEGPYRMEHFRWGSPPKDKRYGGF  
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>sp|O15432|COPT2\_HUMAN Probable low affinity copper uptake protein 2 OS=Homo sapiens  
GN=SLC31A2 PE=1 SV=1

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IFLGVVLGSAVGYLAYPLLSTA

>sp|Q96H96|COQ2\_HUMAN 4-hydroxybenzoate polyprenyltransferase, mitochondrial OS=Homo sapiens  
GN=COQ2 PE=1 SV=1

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AAVDSAPRPLQPYLRMLRDKPIGTWLLYLPCTWSIGLAAEPGCFPDWYMLSLFGTGAI  
LMRGAGCTINDMWDQDYDKVTRTANRPIAAGDISTFQSFVFLGGQLTALGVLLCLNYY  
SIALGAGSLLLVITYPLMKRISYWPQLALGLTFNWGALLGWSAIGSCDPSVCLPLYFSG  
VMWTLIYDTIYAHQDKRDDVLIGLKSTALRFGENTKPWLSGFSVAMLGALSLVGVNSGQT  
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>sp|Q92828|COR2A\_HUMAN Coronin-2A OS=Homo sapiens GN=CORO2A PE=2 SV=2

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LTAYRKELVGHARRVGLVEWHPHTAANILFSAGYDYKVMIWNLDTKESVITSPMSTISCHQ  
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SESYQEDIYPPTAGAQPSLTAQEWLSGMNRDPILVSLRPGSELLRPHPLPAERPIFNSMA  
PASPRLLNQTEKLAEDGWRSSSLLEEKMPRWAAEHRLEEKKTWLTNGFDVFECPPPKTE  
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>sp|Q12887|COX10\_HUMAN Protoheme IX farnesyltransferase, mitochondrial OS=Homo sapiens  
GN=COX10 PE=1 SV=3

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LEPDSVIEDSIDVGKETKEEKRWKEMKLQVYDLPGLARLSKIKLTALVVSTTAAGFALA  
PGPFDWPCFLLTSVGTGLASCAANSINQFFEVPFDSNMNRKTNRPLVRGQISPLLAVSFA  
TCCAVPGVAILTLGVNPLTGALGLFNIFLYTCCYTPLKRISANTWVGAVVGAIPPVMGW  
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CLALLVLSAAAPVLDITTWTFPIMALPINAYISYLGRFYVDADRRSSRRLFFCSLWHL  
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>sp|P00395|COX1\_HUMAN Cytochrome c oxidase subunit 1 OS=Homo sapiens GN=MT-CO1 PE=1 SV=1

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GAGTGWTVYPPLAGNYSHPGASVDLTIFSLHLAGVSSILGAINFITTIINMKPPAMTQYQ  
TPLFVWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTFDPAGGGDPILYQHLLFWFFGH  
PEVYIILIPGFGMISHIVTYYSKGKEPFGYMGVMWAMMSIGFLGFIVWAHHMFTVGM DVD  
TRAYFTSATMIIAIP TGKVFSWLATLHGSNMKWSAAVLWALGFIFLFTVGGLTGIVLAN  
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>sp|Q96KJ9|COX42\_HUMAN Cytochrome c oxidase subunit 4 isoform 2, mitochondrial OS=Homo sapiens GN=COX4I2 PE=1 SV=2

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EQALKEKEKGSWTQLTHAEKVLYRLQFNETFAEMNRRSNEWKTMGCVFFFIGFAALVI  
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>sp|P20674|COX5A\_HUMAN Cytochrome c oxidase subunit 5A, mitochondrial OS=Homo sapiens GN=COX5A PE=1 SV=2

MLGAALRRCAVAATTRADPRGLLHSARTPGPAVAIQSVRCYSHGSQETDEEFDARWVTYF  
NKPDIIDAWELRKGINLTLYTDMVPEPKIIDAALRACRRLNDFASTVRILEVVKDKAGPHK  
EIYPYVIQELRPTLNELGISTPEELGLDKV

>sp|P10606|COX5B\_HUMAN Cytochrome c oxidase subunit 5B, mitochondrial OS=Homo sapiens GN=COX5B PE=1 SV=2

MASRLLRGAGTLAAQALRARGPSGAAAMRSMASGGGVPTDEEQATGLEREIMLAACKGLD  
PYNVLAPKGASGTREDPNLVPSISNKRIVGCICEEDNTSVVFWLHKGEAQRCPRCGAHY  
KLVPQQLAH

>sp|P10176|COX8A\_HUMAN Cytochrome c oxidase subunit 8A, mitochondrial OS=Homo sapiens GN=COX8A PE=1 SV=2

MSVLTPLLLRGLTGSARRLPVPRAKIHSLPPEGKLGIMELAVGLTSCFVTFLLPAGWILS  
HLETYRRPE

>sp|Q7Z7K0|COXM1\_HUMAN COX assembly mitochondrial protein homolog OS=Homo sapiens GN=CMC1 PE=1 SV=1

MALDPADQHLRHVEKDVLPKIMREKAKERCSEVQDFTKCKNSGVLMMVVKCRKENSAL  
KECLTAYYNDPAFYEECKMEYLKEREFRKTGIPTKKRLQKLPTSM

>sp|Q96S19|CP013\_HUMAN UPF0585 protein C16orf13 OS=Homo sapiens GN=C16orf13 PE=1 SV=2

MLVAAAAERNKDPILHVLRLQYLDPAQRGVRVLEVASGSGQHAAHFARAFPLAEWQPSDVD  
QRCLDSIAATTQAQGLTNVKAPLHLDVTWGEHWGGILPQSLDLLLCINMAHVSPLRCTE  
GLFRAAGHLLKPRALLITYGPYAINGKISPQSNVDFDLMLRCRNPEWGLRDTALLEDLGK  
ASGLLLERMVDMPANNKCLIFRKN

>sp|Q494V2|CP100\_HUMAN Cilia- and flagella-associated protein 100 OS=Homo sapiens GN=CFAP100 PE=2 SV=1

MSEIPSTIVSKNMTNDKNSLESMTNISSSSTEENPKKQARKNEEHGPDPSANPFHLSGDV  
DFFLLRDQERNKALSERQQQKTMRVHQMTYSSKVSAKHTSLRRQLQLEDKQEDLEARAE  
AEHQRAFRDYTTWKLTLTKEKNVEPENMSGYIKQKRQMFLLQYALDVKRREIQRLETLAT  
KEEARLERAESLEKDAALFDEFVRENDCSSVQAMRAAEKETKAKIEKILEIRDLTQTIV  
NIKSEISRFEFTLKHVKYKDFLYKLSPKEWLEEQEKKHSFLKKAKEVSEASKESSVNST  
PGDKGPGIKGKASSMWAKEGGTKKPWRFLQTMRLGRSPSYLSSPQQGSQPSESSGGDSR  
GSNSPIPTQEDTSDGEEPQLYFTEPQQLLDVFRELEEQNLSLIQNSQETEKTEELSH  
TLKHTQIRMDREVNQLKQWVTMMMSITKEEDTAAELELKARVFHFGEYKGDQDQDKLLES  
LNCKVLDVYRHCTGTQQEANLGTVMQMLTIIHQQLDELLENLEHVPQVKIEQAERAKEKER  
RIRLREEKLQMQKILQEEHLQRARARAQAEIKKKRGRTLVCRSRPPAHRKQKQSEHTLMD  
KEEEELLFFFT

>sp|O43303|CP110\_HUMAN Centriolar coiled-coil protein of 110 kDa OS=Homo sapiens GN=CCP110 PE=1 SV=3

MEEYEKFCESLARIQEASLSTESFLPAQSESISLIRFHGVAILSPLLNIEKRKEMQQEK



QKALDVEARKQVNRKKALLTRVQEILDNVQVRKAPNASDFDQWEMETVYSNSEVRNLNVP  
ATFPNSFPSHTEHSTA AKLDK IAGILPLDNEDQCKTDGIDLARDSEGFNSPKQCDSSNIS  
HVNEAFPKTSSATPQETLISDGPFVSNEQQDLPLLA EVIPDPYVMSLQNL MKKSKEYIE  
REQSRRSLRGSINRI VNESHLDKEHDAVEVADCVKEKGQLTGKHC VSVIPDKPSLNKSNV  
LLQGASTQASSMSMPVLASF SKVDIPIRTGHPTVLESNSDFKVIPTFVTENNVIKSLTGS  
YAKLPSP EPMSPKMHRRRSRTSSACHILINNPINACELSPKGKEQAMDLI IQDTDENTN  
VPEIMPKLP TDLAGVCS SKVYVGKNTSEVKEDVVLGKSNQVCQSSGNHLENKVTHGLVTV  
EGQLTSDERGAHIMNSTCAAMPKLHEPYASSQCIASPNFGTVSGLKPASMLEKNCSLQTE  
LNKSYDVKNPSPLLMQNQNTQQMDTPMVSCGNEQFLDNSFEKVKRRLLDLDIDGLQKENC  
PYVITSGITEQERQHLPEKRYPKGSGFVNKNKMLGTSSKESEELLKSKMLAFEEMRKRLE  
EQHAQQLSLLIAEQEREQERLQKEIEEQEKMLKEKKAMTAEASELDINNAVELEWRKISD  
SSLLETMLSQADSLHTSNSSNGFTNSAMQYSFVSANEAPFYLWGSSTSGLTKLSVTRPF  
GRAKTRWSQVFSLEIQAKFNKITAVAKGFLTRRLMQTDK LKQLRQTVKDTMEFIRSFQSE  
APLKRGI VSAQDASLQERVLAQLRAALYGIHDIFFVMDAAERMSILHHDREVRKEKMLRQ  
MDKMKSPRVALSAATQKSLDRKKYMKAAEMGMPNKKFLVKQNPSETRVLQPNQGNAPVH  
RLLSRQGT PKTSVKGVVQNRQKPSQSRVPNRVPVSGVYAGKIQRKRPNVATI

>sp|Q86W10|CP4Z1\_HUMAN Cytochrome P450 4Z1 OS=Homo sapiens GN=CYP4Z1 PE=2 SV=1

MEPSWLQELMAHPFLLLILLCMSLLL FQVIRLYQRRRWIRALHLFPAPPAHWFYGHKEF  
YPVKEFEVYHKLMEKYPCAVPLWVGPFMTMFFSVHDPDYAKILLKRQDPKSAVSHKILES  
VGRGLVTLDGSKWKHRQIVKPGFNISILKIFITMSESVRMMLNKWEEHIAQNSRLELF  
QHVSMTLDSIMKCAF SHQGSIQLDSTLDSYLKAVFNLSKISNQRMNNFLHHNDLVFKFS  
SQGQIFSKFNQELHQFTEKVIQDRKESLKD K LKQDTTQKRRWDFLDILLSAKSENTKDFS  
EADLQAEVKTFMFAGHDTTSSAISWILYCLAKYPEHQQRCD EIRELLGDGSSITWEHLS  
QMPYTTMCIKECLRLYAPVVNISRLLDKPI TFPDGRSLPAGITVFINI WALHHPYFWED  
PQVFNPLRFSRESEKIHPYAFIPFSAGLRNCIGQHFAIIECKVAVALTLLRFKLAPDHS  
RPPQPVRQVV LKSKNGIHVFAKKVC

>sp|Q17RY0|CPEB4\_HUMAN Cytoplasmic polyadenylation element-binding protein 4 OS=Homo sapiens GN=CPEB4 PE=1 SV=1

MGDYGFGVLVQSNTGNKSAFPVRFHPLQPPHHHQ NATPSPA AFINNNTAANGSSAGSAW  
LFPAPATHNIQDEILGSEKAKSQQQEQQDPLEKQQLSPSPGQEAGILPETEKAKSEENQG  
DNSSENGNGKEKIRIESPVL TGFQDYQ EATGLTSTQPLTSSASSLTGFSNWSAAIAPSSS  
TIINEDASFFHQGGVPAASANN GALLFQNFPHVSPGFGGSFSPQIGPLSQHHPHHPHFQ  
HHHSQHQQRRSPASPHPPPFTHRNAAFNQLPHLANNLNKPSPWSSYQSPSPTPSSWS  
PGGGYG GGGWGSQGRDHRRGLNGGITPLNSISPLKKNFASNHIQLQKYARPSSAFAPKSW  
MEDSLNRADNIFPPDRPRTFDMHSLESSLIDIMRAENDTIKRLNYSYPGSDSSLLINA  
RTYGRRRGQSSLFPMEDGFLDDGRGDQPLHSGLGSPHCF SHQNGERVERYSRKVFVGGLP  
PDIDEDEITASFRRFGPLIVDWP HKAESKSYFPPKGYAFLLFQDESSVQALIDACIEEDG  
KLYLCVSSPTIKDKPVQIRPWNLSDSDFVMDGSQPLDPRKTIFVGGVPRPLRAVELAMIM  
DRLYGGVCYAGIDTDPELKYPKGAGRVAFSNQQSYIAAISARFVQLQHGEIDKRVEVKPY  
VLDDQLCDECQGARGCGKFAPFFCANVTCLQYYCEYCWAAIHSRAGREFHKPLVKEGGDR  
PRHISFRWN

>sp|Q9UBL6|CPNE7\_HUMAN Copine-7 OS=Homo sapiens GN=CPNE7 PE=1 SV=1

MSAGSERGAAATPGGLPAPCASKVELRLSCRHLLDRDPLTKSDPSVALLQQAQQQWVQVG  
RTEVVRSSLHPVFSKVFTVDYYFEVQRLRFEVYDTHGPSGFSCQEDDFLGGMECTLGQP

AQKWLLQVVMRVSDVLGPAGHCAKHFLCCTESSHLARTGPSFLLRYDDLCLPWATAGAV  
RWWTCRGGHTQGQWIVAQKKVTRPLLLKFGRNAGKSTITVIAEDISGNGYVELSFRARK  
LDDKDLFSKSDPFLELYRVNDDQGLQLVYRTEVVKNNLNPVWEAFKVSLSLCSCEETRP  
LKCLVWDYDSRGKHFDFIGFSTTFEEMQKAFFEEGQAQWDCVNPKYKQKRRSYKNSGVVVL  
ADLKFHRVYSFLDYIMGGCQIHFTVAIDFTASNGDPRNSCSLHYINPYQPNEYLKALVSV  
GEICQDYDSDKRFSALGFGARIPPKYEVSHDFAINFNPEDDECEGIQGVVEAYQNCLPRV  
QLYGPTNVAPIISKVARVAAAEESTGKASQYYILLILTDGVVTDMAITREATIVRASRLPM  
SIIIVGVGNADFTDMQVLDGDDGVLRSRPGEPALRDIVQFVPFRELKNASPAALAKCVLA  
EVPKQVVEYYSHRGLPPRSLGVPAGEASPGCTP

>sp|Q86YQ8|CPNE8\_HUMAN Copine-8 OS=Homo sapiens GN=CPNE8 PE=1 SV=2

MDSRYNSTAGIGDLNQLSAAIPATRVSVSCRNLLDRDTFSKSDPICVLYVQGVGNKEW  
REFGRTEVIDNTLNPDFVRKFIIDYFFEERENLRFDLYDVDSKSPNLSKHDFLGQVFCFL  
GEIVGSQGSRLKPIVIGIPGKKCGTIILTAELNCCRAVLMQFCANKLDKKDFFGKSDP  
FLVFYRSNEDGSFTICHKTEVVKNTLNPVWQAFKISVRALCNGDYDRTIKVEVYDWRDVG  
SHDFIGFSTTSYRELSRGQSQFNVEVNPKKKGKKKKYTNSGTVTLLSFLVETEVSFLLD  
YIKGGTQINFTVAIDFTASNGNPAQPTSLHYMNPYQLNAYGMALKAVGEIVQDYDSKMF  
PALGFGAKLPPDGRISHEFALGNPNPNPYCDGIEGVMEAYYRSLKSVQLYGPTNFAPVIN  
HVARYASSVKDGSQYFVLLIVTDGVISDMAQTKESIVNASKLPMSIIIVGVGPAEFDAMV  
ELDGGDVRVSSRGKYAERDIVQFVPFRDYIDRSGNHILSMARLAKDVLAEIPEQFLSYMR  
ARGIKPSPAPPPYTPPTHVLQTQI

>sp|Q96L46|CPNS2\_HUMAN Calpain small subunit 2 OS=Homo sapiens GN=CAPNS2 PE=2 SV=2

MFLAKALLEGADRGLGEALGGLFGGGGQRREGGGRNIGGIVGGIVNFISEAAAAQYTPEP  
PPTQQHFTSVEASESEEEVRRFRQFTQLAGPDMEVGATDLMNINLVLSKHKDLKTGDFS  
LDTCSRISVMSDSTTGKLGFEFFKYLWNNIKKWQCVYKQYDRDHSGSLGSSQLRGALQA  
AGFQLNEQLYQMIVRRYANEDGDMDFNNFISCLVRLDAMFRAFKSLDRDRDGLIQVSIKE  
WLQLTMYS

>sp|A6NMK7|CPS4L\_HUMAN Putative cleavage and polyadenylation specificity factor subunit  
4-like protein OS=Homo sapiens GN=CPSF4L PE=2 SV=3

MQEVIAGLERFTFAFEKDVEMQKGTGLLPFQGMDSASAVCNFFTKGLCEKGKLCPRHD  
RGEKMOVCKHWLRGLCKKGDHCKFLHQYDLTRMPECYFYSKFGDCSNKECSFLHVKPAFK  
SQDCPWYDQGFCCKDGPLCKYRHVPRIMCLNYLVGFCPEGPKCQFAQKIREFKLLPGSKI

>sp|Q8TCG5|CPT1C\_HUMAN Carnitine O-palmitoyltransferase 1, brain isoform OS=Homo sapiens  
GN=CPT1C PE=1 SV=1

MAEAHQAVGFRPSLTSDGAEVELSAPVLQEIYLSGLRSWKRHLSRFWNDFTLGVPASPL  
SWLFLFSATQLAWFLQLDPSLGLMEKIKELLPDWGGQHHGLRGVLAALFASCLWGALIF  
TLHVALRLLLSYHGWLLEPHGAMSSPTKTWLALVRIFSGRHPMLFSYQRSRPRQPVPSVQ  
DTRVKYLESVRPILSDEDFDWTAVLAQEFLRLQASLLQWYLRLKSWASNYVSDWWEFV  
YLSRNPMLVNSNYMMDFLYVTPPLQAARAGNAVHALLLYRHRLNRQEIPPTLLMGMR  
PLCSAQYEKIFNTTRIPGVQKDYIRHLHDSQHVAVFHRGRFFRMGTHSRNSLLSPRALEQ  
QFQRILDDPSPACPHHEHLAALTAAPRGTAQVRTSLKTQAAEALEAVEGAFFVSLDAE  
PAGLTREDPAASLDAYAHALLAGRGHDFWFKSFTLIVFSNGKLGLSVEHSWADCPISGH  
MWEFTLATECFQLGYSTDGHCKGHPDPTLPQPQLQWDLPDQIHSSISLALRGAKILSEN  
VDCHVVPFSLFGKSFIRCHLSSDSFIQIALQLAHRDRGQFCLTYESAMTRLFLEGRTE  
TVRSCTREACNFVRAMEDKEKTDPOCLALFRVAVDKHQALLKAAMSGQGVDRHLFALYIV

SRFLHLQSPFLTQVHSEQWQLSTSQIPVQQMHLFDVHNPDPYVSSGGGFGPADDHGYGVS  
YIFMGDGMITFHISKKSSTKTDSHRLGQHIEDALLDVASLFQAGQHFKRRFRGSGKENS  
RHRCGFLSRQTGASKASMTSTDF

>sp|Q9H0A8|COMD4\_HUMAN COMM domain-containing protein 4 OS=Homo sapiens GN=COMMD4 PE=1  
SV=1

MRFRFCGDLDCPDWVLAIEISTLAKMSSVKLRLLCSQVLKELLGQGIDYEKILKLTAADAKF  
ESGDVKATVAVLSFILSSAAKHSVDGESLSSELQQGLPKHAASLCRCYEEKQSPLQKH  
LRVCSLRMNRLAGVGRVDYTLSSSLLQSV EEPMVHLRLEVAAPGTPAQPVAMSLSADK  
FQVLLAELKQAQTLMSLLG

>sp|Q86VX2|COMD7\_HUMAN COMM domain-containing protein 7 OS=Homo sapiens GN=COMMD7 PE=1  
SV=2

MGR LHCTEDPVPEAVGGDMQQLNQLGAQQFSALTEVLHFHFLTEPKEVERFLAQLSEFATT  
NQISLGSLSRIVKSLLLVPNGALKKSLTAKQVQADFITLGLSEEKATYFSEKWKQNAPTL  
ARWAIGQTLMINQLIDMEWKFGVTSGSSELEKVGSI FLQLKL VVKGNQ TENVYIELTLP  
QFYSFLHEMERVRTSMECFC

>sp|Q9UQ03|COR2B\_HUMAN Coronin-2B OS=Homo sapiens GN=CORO2B PE=1 SV=4

MTVTKMSWRPQYRSSKFRNVYGVANREHCFDGIPTKNVHDNHFCAVNTRFLAIVTESA  
GGGSFLVIPLEQTGRIEPNYPKVCGHQGNVLDIKWNPFI DNI IASCEDTSVRIWEIPEG  
GLKRNMTAEALLEHGSRRVGLVEWHPTTNNILFSAGYDYKVLINLNDVGEPVKMIDCHT  
DVILCMSFNTDGSLLTTTCKDKKLRIEPRSGRVLQEANCKNHRVNRVFLGNMKRLTT  
GVSRWNTRQIALWDQEDLSMPLIEEIDGLSGLLFPFYDADTHMLYLAGKGDGNIRYYEI  
STEKPYLSYLMEFRSPAPQKGLGVMPKHGLDVSACEVFRFYKLVTLKGLIEPISMIVPRR  
SDSYQEDIYPMPTGTEPALTPDEWLGGINRDPVLSLKEGYKSSKMVFKAPIKEKKSVV  
VNGIDLLENVPRTENELLRMFFRQQDEIRRLKEELAQKDIRIRQLQLELKNLRNSPKNC

>sp|P10589|COT1\_HUMAN COUP transcription factor 1 OS=Homo sapiens GN=NR2F1 PE=1 SV=1

MAMVSSWRDPQDDVAGGNPGGPNAQAARGGGGAGEQQQQAGSGAPHTPQTPGQPGA  
PATPGTAGDKGQGP GSGSQQHIECVVCGDKSSGKHYGQFTCEGCKSFFKRSVRRNLTY  
TCRANRNCPIDQHHRNQCYCRLKKCLKVGMREAVQRGRMPPTQPNPGQYALTNGDPLN  
GHCYLSGYISLLRAEYPYTSRYGSQCMQPNNIMGIENICELARLLFSAVEWARNIPFF  
PDLQITDQVSLRLTWSEL FVLNAAQCSMPLHVAPLLAAAGLHASPMSADRVVAFMDHIR  
IFQEQVEKLKALHVDSAEYSCLKAIVLFTSDACGLSDAAHIESLQEKSCALEEYVRSQY  
PNQPSRFGKLLRLPSLRTVSSSVIEQLFFVRLVGKTP IETLIRDMLLSGSSFNWPYMSI  
QCS

>sp|Q49B96|COX19\_HUMAN Cytochrome c oxidase assembly protein COX19 OS=Homo sapiens  
GN=COX19 PE=1 SV=1

MSTAMNFGTKSFQRPDPKGSFPLDHLGECKSFKEKFMKCLHNNNFENALCRKESKEYLE  
CRMERKLMLQEPEKLGFGLTSGKSEAKK

>sp|P13073|COX4I1\_HUMAN Cytochrome c oxidase subunit 4 isoform 1, mitochondrial OS=Homo  
sapiens GN=COX4I1 PE=1 SV=1

MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHSASQK  
ALKEKEKASWSSLSMDEKVELYRIKFESFAEMNRGSNEWKT VVGAMFFIGFTALVIMW  
QKHYYVGPLPQSFDKQEWAKQTKRMLDMKNPIQGLASKWDYEKNEWKK

>sp|P11511|CP19A\_HUMAN Aromatase OS=Homo sapiens GN=CYP19A1 PE=1 SV=3

MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWNYEGTSSIPGPGYCMGIGPLI

SHGRFLWMGIGSACNYNRYVGEFMRVWISGEETLIISKSSSMFHIMKHNYSSRFGSKL  
GLQCIGMHEKGIIFNNNPWLKTRPFFMKALSGPGLVRMVTCAESLKTHLDRLEEVN  
ESGYVDVLTLLRRVMDTSNTLFLRIPLDESAIVVKIQGYFDWQALLIKPDIFFKISWL  
YKYEKSVKDLKDAIEVLIAEKRRRISTEEKLEECMDFATELILAEKRGDLTRENVNQCI  
LEMLIAAPDTMSVSLFFMLFLIAKHPNVEEAIKEIQTVIGERDIKIDDIQKLKVMENFI  
YESMRYPVVDLVMRKALEDDVIDGYPVKGTNIILNIGRMHRLEFFPKPNEFTLENFAK  
NVPYRYFPFGFGPRGCAGKYIAMVMMKAILVTLLRRFHVKTLLQGQCVESIQKIHDLSLH  
PDETKNMLEMIFTPRNSDRCLEH

>sp|P04798|CP1A1\_HUMAN Cytochrome P450 1A1 OS=Homo sapiens GN=CYP1A1 PE=1 SV=1

MLFPISMSATEFLASVIFCLVFWVIRASRPQVPKGLKNPPGPWGWPGLIGHMLTLGKNPH  
LALSRSMSQQYGDVLQIRIGSTPVVLSGLDITRQALVRQGDDFKGRPDLYTFTLISNGQS  
MSFSPDSGPVWAARRRLAQNGLSFSIASDPASSTSCYLEEHVSKEAEVLISLQELMAG  
PGHFNYPYRVVSVTNVICAICFGRRYDHNHQELLSLVNLSNNFGEVVGSGNPADFIPIIL  
RYLPNPSLNAFKDLNEKFYSFMQKMKVKEHYKTFEKGHIRDITDSLIEHCQEKQLDENANV  
QLSDEKIIINIVLDLFGAGFDTVTTAISWSLMLVMNPRVQRKIQEELDTVIGRSRRPRLS  
DRSHLPYMEAFILETFRHSSFPFTIPHSTTRDTSKGFYIPKGRCVFNQWQINHDQKL  
WVNPSEFLPERFLTPDGAIDKVLSEKVIIFGMGKRKCIGETIARWEVFLFLAILLQRVEF  
SVPLGVKVDMTPIYGLTMKHACCEHFQMLRS

>sp|Q16678|CP1B1\_HUMAN Cytochrome P450 1B1 OS=Homo sapiens GN=CYP1B1 PE=1 SV=2

MGTSLSPNDPWPLNPLSIQQTLLLLSVLATVHVQGRLLRQRRRQLRSAPPGPFAWPLI  
GNAAVGQAAHLSFARLARRYGDVFQIRLGSCPIVVLNGERAIHQALVQQGSAFADRPAP  
ASFRVVSNGRSMFAGHYSEHWKVQRAAHSMMRNFFTRQPRSRQVLEGHVLSARELVAL  
LVRGSDAGFLDPRPLTVAVANVMSAVCFGCRYSHDDPEFRELLSHNEEFGRVTGAGSL  
VDVMPWLQYFPNPVRTVFREFEQLNRNFSNFILDKFLRHCESLRPGAAPRDMMDAFILSA  
EKKAAGDSHGGGARLDLENVPATITDIFGASQDTLSTALQWLLLLFTRYPDVQTRVQAE  
DQVVGDRDLPCMGDQPNLPYVLAFLYEAMRFSFVPVTIPHATTANTSVLGYHIPKDTV  
FVNQWSVNHDPLKWPNPENFDPARFLDKDGLINKDLTSRVMIFSVGKRRRCIGEELSKMQL  
FLFISILAHQCDFRANPNPAKMNFSYGLTIKPKSFKNVTLRESMELLDASAVQNLQAKE  
TCQ

>sp|Q02318|CP27A\_HUMAN Sterol 26-hydroxylase, mitochondrial OS=Homo sapiens GN=CYP27A1  
PE=1 SV=1

MAALGCARLRWALRGAGRGLCPHGARAIIIPALPSDKATGAPGAGPGVRRRQRSLEEI  
PRLGQLRFFFQLFVQGYALQLHQLQVLYKAKYGPMMWSYLGPQMHVNLASAPLLEQVMRQ  
EGKYPVRNDMELWKEHRDQHDLYGPFTTEGHHWYQLRQALNQRLKPAEAAALYDAFNE  
VIDDFMTRLDQLRAESASGNQVSDMAQLFYYFALEAICYILFEKRIGCLQRSIPEDTVTF  
VRSIGLMFQNSLYATFLPKWTRPVLPFWKRYLDGWNALFSFGKKLIDEKLEDMEAQLQAA  
GPDGIQVSGYLHFLLASGQLSPREAMGSLPELLMAGVDTSNTLTWALYHLSKDPEIQEA  
LHEEVGVVPAGQVPQHKDFAHMPLLKAVLKETLRLYPVPTNSRIIEKEIEVDGFLFPK  
NTQFVFCHYVVS RDPTAFSEPESEFQPHRWLRNSQPATPRIQHFPGSPFPGYGVRACLGRR  
IAELEMQLLLARLIQYKVV LAPETGELKSVARIVLVPNKKVGLQFLQRQC

>sp|A4D0V7|CPED1\_HUMAN Cadherin-like and PC-esterase domain-containing protein 1 OS=Homo  
sapiens GN=CPED1 PE=2 SV=1

MVCRPVFPCRRRCPRPFLVGLVVAICLFYQTLTLRGSRKLTAAAPGAVPHTSTETQASR  
CKKGFSQDKQCFLLSGNAQETRKVKESMETHFGSHGRRAILYRPPFYSKTELQLHQHILT

QHGYTVVIAEERLNAGLGPGLLEQGDLSWDLLICLSSKKAEGTPCISKEVMCQLGLHQK  
ANRLPEIQQLCRKEGLCQIVRRFPQLPVSFVCLDQGMQLKPSTSSHLLKTVKPRVW  
KPGDWSREQLNETTVLAPHETIFRAEDLSVILKAYVLVTSLTPLRAFIHSTGTVWNPPKK  
KRFTVKLQTFETFLRASSPQQAFDIMKEAIGKLLAAEVFSETSTLGPKTFHRCRFCFQ  
LLTFDIGYGSFMYPVVLQVHEHLNFQDYDNMDFEDQNTTEFLNDTFNLFPPNESSLSIF  
SEIFQRLYRSDVFKGENYQKELNQCLSLEEINSIMTFIKELGSLGQFQLLPSTTPGIQS  
LMHEFYDVANPVGNPGSVLTQYWSLLNVFEQFQFMNKKTPHPLEWNSFTEDKNIEKPQV  
PFDAIENKKAAPQIKNENKEIHCSDDETPCHIKQIFTHPHLELNPDFHPKIKDYYCEV  
PFDVVTVTIGVETPKCLCKVHLYEQAGPSFASYPLGLGMNKISIFVDESPAHEGLITY  
KLTIYREDRPSLPLFEAFTACGFVQDCGLLIHPEETCGLQPISSDYIEAILQSELKRCPS  
GDMKGQWIVPCLSCSDNRTCDWREITWQPHNCQYGVLTQPKLQCLGGRKILFIGDSTNR  
GIMYYLIERLNETLQEWQKVHGTIFYHNVNGGKTLISYSYYPQFWISPSLRPTFENALEH  
LLQRSRPLENTGQTVLVVGGVQWLNSNHLQIIHKVLKRENLLNILVIIKTLGIGFHLVPD  
GVHFLTQSEVQNLWKENLIILDTAKKHGYEVVDFTITMGRYKEFLQKCGCHFHEVVK  
KLSKEYNFIKMKRSRNHIMGRYFSNQSKLQGGTVTNFRSPYHVRGPIQVCSEILLSRMC  
ANKRTM

>sp|Q96A23|CPNE4\_HUMAN Copine-4 OS=Homo sapiens GN=CPNE4 PE=1 SV=1

MKKMSNIYESAANTLGIFNSPCLTKVELRVACKGISDRDALSKPDPCVILKMQSHGQWFE  
VDRTEVIRTCINPVYSKLFVDFYFEEVQRLRFEVHDISSNHNLKEADFLGGMECTLGQ  
IVSQRLSKSLLKHGNTAGKSSITVIAEELSGNDDYVELAFNARKLDDKDFFSKSDPFLE  
IFRMNDATQQLVHRTEVVMNNLSPAWSFKVSVNSLCSGDPDRRLKCIVWDWDSNGKHD  
FIGEFTSTFKEMRGAMEGKQVQWECINPKYAKKKNYKNSGTVILNLCKIHKMHSFLDYI  
MGGCQIQFTVAIDFTASNGDPRNSCSLHYIHPYQPNYLKALVAVGEICQDYSDKMFPA  
FGFGARIPPEYTVSHDFAINFNEDNPECAGIQGVVEAYQSCLPKLQLYGPTNIAPIIQKV  
AKSASEETNTKEASQYFILLILTDGVIDTMDTREATIVHASHLPMSVIVGVGNADFSDM  
QMLDGGDGIILRSPKGEPLRDIVQFVPFRNFKHASPAALAKSVLAEPNQVVDYYNGKGI  
KPKCSSEMYESSRTLAP

>sp|A8MQB3|CQ051\_HUMAN Uncharacterized protein C17orf51 OS=Homo sapiens GN=C17orf51 PE=2  
SV=1

MGEKSRRKGPAPRHADGKLGRCDHPYAPWSFTPSSRAPTAWVRPPCPVWASRLQHSPE  
PRRARAPPTRAQAALYAPALRLRDHLDRFSILMTSCTSWLQAPQAPGLCRDEQSSRISV  
PQLSGAPILLPDLEGTLSNFQESSPLPHKHERKDKRSTPEEEGRSAPEKIIQSLKLCPG  
GHRPASLSSGCPAGCRLSFLNPPSMLLSVQKCCMPSSLKTC

>sp|Q8N8I6|CQ055\_HUMAN Putative uncharacterized protein encoded by LINC00482 OS=Homo  
sapiens GN=LINC00482 PE=5 SV=1

MPSRLKRAQLRSLLPRPPAVSHTQPWYRAAHPTTSPTAASRDVHPASGAVPGPWLVEGTA  
VREGPQLQDAVPQRPTRPSKALWPAQMSAAPAIRLGQMVPGDTRGLWGPQGTLTWTYRG  
GQGGRWTRRAEGPREGTFAEQRPHFQSSGAQQESRLAMGPPPLGLGDAAGDGRGQTGQEK  
GRAEGRQARKSACKCPRKGPNGPWTRAAAWWRLEGAKASAKGEQVRDPGGHLWEQGHV  
SPCARFNQGHSCGSPKVSHTTWVS

>sp|QOP670|CQ074\_HUMAN Uncharacterized protein C17orf74 OS=Homo sapiens GN=C17orf74 PE=2  
SV=2

MENQLWHNTVRCCNQYQESPHDAEDILLLLGLIVLVNIGINVATMMWHGLQNALDKMID  
WATQKNEIQASESPSPGPPDKAQDVHIHCILDVPVQVKMSRPTQYSSFSCHHFSNHHSSSL

LRCVRRRRRRHRRCCRRCCNHQRPQNYRQIPHSHSVFRNPHRSQKMSQLHRVPFFDQED  
PDSYLEEEDNLPFPYPKYPRRGWGGFYQRAGLPSNVGLWGHQGGILASLPPPSLYLSPEL  
RCMPKRVEARSELRLQSYGRHGSQSRLWGNVEAEQWASSPPPPHRLPPNPSWVPVGHSPY  
PSVGWMLYDSWDQRRRGTEGFERPPASVSRNARPEAQGCREHHSPQSHQQSLLGHAYGQS  
HRSPHPSTEPLGYSSQDPREVRRAADWAEALPAWRPLTTSASLTVLDEASHQRTAPASS  
VLVPHSSQPWPKVQAADPAPPTMFVPLSRNPGGNANYQVYDSLELKRQVQKSRRARSSSL  
PPASTSTLRPSLHRSQTEKLN

>sp|Q96MU5|CQ077\_HUMAN Uncharacterized protein C17orf77 OS=Homo sapiens GN=C17orf77 PE=2  
SV=2

MDELALSFSLTCLLPENRASLSPSQPLSFQCLKAPATLTWEDEKQQRWGQPHGPVSSPLL  
GDHRCLVPFRDLNPSSEVNTANLLESPLLSTSCYICSYFSFYILGEKRCHSLKRLRYS  
VCCKVCPNFCACGKENVSGTGQVCTGVHVGAKQEPEGGTQALRSCGIYCLEERTDKASH  
EECRERSTLGRPQCTGLTPSLAGESPCPRLLPGSPTVRHLIASSCPGLSDPLPLPPGTLP  
LGS

>sp|Q9BSJ5|CQ080\_HUMAN Uncharacterized protein C17orf80 OS=Homo sapiens GN=C17orf80 PE=2  
SV=2

MSDNPPRMEVCPYCKKPFKRLKSHLPYCKMIGPTIPTDQKVYQSKPATLPRAKKMKGPIK  
DLIKAKGKELETENEERN SKLVVDKPEQTVKTFPLPAVGLERAATKADKDIKNPIQPSF  
KMLKNTKPMTTFQEETKAQFYASEKTS PKRELAKDLPKSGESRCNPSEAGASLLVGSIEP  
SLSNQDRKYSSTLPNDVQTTSGDLKLDKIDPQRQELLVKLLDVPTGDCHISPKNVSDGVK  
RVRTL SNERDSKGRDHLSGVPTDVTVTETPEKNTESLILSLKMSSLGKIQVMEKQEKGL  
TLGVETCGSKGNAEKSMSATEKQERTVMSHGCFNTRDSVTGKESQGERPHLSLFI PRE  
TTYQFHSVSQSSSQSLASLATTFLQEKKAQAQNHHCVPDVKALMESPEGQLSLEPKSDSQ  
FQASHTGCQSPLCSAQRHTPQSPTNHAAGRKT LRSCMGLEWFP ELYPGYLGLGVLP  
KPQCWNAMTQKPLISPQGERLSQVSLERSSTHIRSLEPPAGLTTSNFSLMRLLGAVQK  
GWIRCNTTIRKSGFGGITMLFTGYFVLCCSWSFRRLKKLCRPLPWKSTVPPCIGVAKTTG  
DCRSKTCLD

>sp|A2RUQ5|CQ102\_HUMAN Uncharacterized protein C17orf102 OS=Homo sapiens GN=C17orf102  
PE=2 SV=1

MFD FSFPTPASAGTRMG PASCGRSLHLPQLRFSRVDATAVTDVPFQRMHAPHRAPEVFC  
SRSSRGAGRGHPTPTPRVRWALAGNQPRCCAQLLSGRGGSGAQLRAGWVRGA AVGNLFIL  
LLGKEDGEEEGTVLSYSSMVHISNITGIVGTTVSRTKPALVLMELTF

>sp|Q96MF6|CQ10A\_HUMAN Coenzyme Q-binding protein COQ10 homolog A, mitochondrial OS=Homo  
sapiens GN=COQ10A PE=2 SV=2

MAWAGSRRVPAGTRAAAERCCRLSLSPGAQPAPPPGPLPPPRPMRFLTSCSLLLPRAAQI  
LAAEAGLPSSRSFMGAAPFTNKRKAYSERRIMGYSMQEMYEVVSNVQEYREFVPWCKKS  
LVVSSRKGH LKAQLEVGFPPVMERYTS AVSMVKPHMVKAVCTDGKLFNHLETIWRFSPI  
PAYPRCTVDF SISFEFRSLLHSQ LATMFFDEVVKQNVAAFERRAATKFGPETAIPRELM  
FHEVHQT

>sp|Q96N68|CR015\_HUMAN Putative uncharacterized protein C18orf15 OS=Homo sapiens  
GN=C18orf15 PE=5 SV=1

MQGQGALKESHIHLPTQEASLVLQGQLAESSALGPKGALRPQAQSPDVPVSWWQSGK  
RLSHRLPHICSQPPLGPFLPLTPWSCGFFGLGGAASASLGLEVLQDSVSTWARGPCCPVH  
PQSLTVVCMCACMCVCVHVCACVYVCMCVLVCACACMRAHRYFLMDCAGICSPHGP GT

Q

>sp|P78560|CRADD\_HUMAN Death domain-containing protein CRADD OS=Homo sapiens GN=CRADD  
PE=1 SV=1

MEARDKQVLRSLRLELGAEVLVEGLVLQYLYQEGILTENHIQEINAQTTGLRKTMLLLDI  
LPSRGPKAFDTFLDSLQEFPWVREKLKKAREEAMTDL PAGDRLTGIPSHILNSSPSDRQI  
NQLAQLRGPWEPMVLSLGLSQTDIYRCKANHPHNVSQVVEAFIRWRQRFQKQATFQSL  
HNGLRAVEVDPSLLHMLE

>sp|P53673|CRBA4\_HUMAN Beta-crystallin A4 OS=Homo sapiens GN=CRYBA4 PE=1 SV=3

MTLQCTKSAGPWKMVWDEDFGQRRHEFTAECPSVLELGFETVRSCLKVLSGAWVGFEHA  
GFQGGQYILERGEYPSWDAWGGNTAYPAERLTSFRPAACANHRDSRLTIFEQENFLGKKG  
ELSDDYPSLQAMGWEGNEVGSFHVHSGAWVCSQFPGYRGFYVLECDHHSBGDYKHFREWG  
SHAPTFQVQSIRRIQQ

>sp|Q68DQ2|CRBG3\_HUMAN Very large A-kinase anchor protein OS=Homo sapiens GN=CRYBG3 PE=1  
SV=3

MSSGRRRSAPWHSFSRFFAPRSPSRDKEEEEEERPGTSPPPAPGRSAASVENEPMSTSQ  
KKENVLSSEAVKIRQSEDKRNHAEKPVTLPVQEDPKKAYDLSSSTSDTKIGESDRQPKES  
FFQFLGNLFNISGKSSLGEAKQSSFQDDQDKTEKDLQNP SDHHEDGIKREREIFSGSLRT  
QTHPT EEQDSNSELSDAFSLDTTQSDQETNLLKQIDGKPEKPSVTYATYRGPRHIGK  
YLKQQTGLATVNTLDRENESSDSTNRHIDPGSEIEAGVLP LLLSASTDSSMKGNLLEGP  
LEDSDCSKTSFNKENS LTNNPELQNIASSNNLLNKNAGS IERNRSPSSVTNSSYDGES  
DSQHHLSC EPVSQTNRLVCSALLTGSNHRKVCPDFQ RVT TTENTIKENSTVMSNRTL  
VQREELVEPQGPAISDFSCSKSDGSDTTEQESTNLPSPNKSIRHEHLQLPESECSKQTI  
DSSSKQAATHNI IALQRHAVTDTEFVNEGKRLSAQDSQKNVAVREIRRETESASAGESI  
ASSHVKAPEDKIESLPKDTDQYFETKAKKLD FRSHDKIPHIRMNKKDLASLNYISESAVV  
ASLGNENAPELKFELNRSHISETPLDSESPQQA EVSPDAKTSLSLDCKKLNFSISPPTFV  
SGVGMLSKLDIPDLMNEGSPVPIETGNVNI VGISYQPRKCKEENVKNHVEAAGRKSPPPS  
FCLEYTSAIFEFKEVLSNSEKCQVLPGEASGPHLTGLELLSFD SGNLSKDCSSILSQDP  
NRVELVSSNTKANMS IIEKSDSLSEAKTANIVSKAEIDGQNNVLVESHSGRGKTISLSK  
VLSKVEPRNISQDKMSSFPLKITHVPEKPILSELTFLEVEQGKRFQSI NHNEIGEKCS  
DAGLKENCQAE LSPAASKYEDKPEPEVDALGSPALLKSNISWILPPIHDEKISRQMAQNC  
EAHTCVFHQSLDICGTTKISGHSEMAELSLTNISPKFQETGSMKVNSPFLDSDSSLEKNS  
SASESSFLKVPSVLKLEKKSSSYRKKENIHFLNGGIDSVSSSSSYPEEVS MIVNSHKPQ  
NNLDSIQVTKDLTHEGTSVTNLLYPTTSYLEFETSVSIGTEVTPFQEHFGIYTGKISIDF  
PTAAQFDNLVEAETGAVAGPAASVNSSGQCSEASA EIEARRRAHDQLLDLKSLLKKA  
DTLIGEIFNSVREELKFKHTVSTCQEHIAIEGIMNLGTLKEDI SEKNPSEVTLTEIQQTE  
GLEEQGMENMSEVKEKPCVSPTVGEKNLLVDPNSMNVSC LLEDKARELVNEIIYVAQEK  
LRNDTFEDTEDTWDSELQANTSKILNSDSVKPHDVVREFLVSEQPVNQSTQISENKVLNEF  
FSLSNLASGTESIKGGEIVLYQKSLFSGNGSGLSDS INLQESDTVLLAEDMSHKRLDDR  
VKTHLFRSEDCNETMEIENVNNTKTETEDRRTLVLNFKWPPLVND DIHAPGTSKSSLSDSL  
VCISEKNLPGHSKNTPLAMSDVGKVHKKDNEINIGKIELIPSMLETGKTNNKDAELN ILK  
YEAVPPMIEMGRIHKMAELNVTKTEPKANVFKMGEVYQMDAESCIEKTEGSAVILGMEK  
AYKMKDTEGDIGKIEVIPMMPEVKNIHQKDAEGDIVKTEMTPVTVDMENIYQTHAEGDIG  
KTGTIALSEVENIHQKGGEISEKAEVIPVTLAMENTYQKDAEGDIGKAEVMPVRLEMEN  
TYPKQTERDGGKTEVMPLALEVVNTYQKNAKGFTGNTEGSVLKMEATYRKTAEEVIKNT

IVPCVLKVKEAHETAPAPLEMEKACKRDVKETIGATVSTPSVIEKISPEDRGENIGKH  
KVLPAVVDIEKIHGTGLELTTKQGEAMLPAFESKTPQEYAEGSVEETKEEPTEIKEGLIA  
HENRLPTYFRGYESPTLSKDYEGYPAPAMPDFQPGDTTVRLDKRMSLTAIYDKRRETDYS  
DKGYNLAFVSQDEQENSSFTILYEEPLQEEDKYASAEARQTQSVLFHDTADSMPVLACE  
RSESRDVLVHHFEKGTKLGETFDSDSSEMFLSVEAKRYKIYPLALSPIYEDDSSQEDILS  
SEVSPGHHGPRKSRDSENQSSSVLSLLQSVSERLKMNFDEDDREAADEEEEEEAAVLHK  
GDLRAGSGERVTFQLPDPSITFYRDDQESVGIKSNYSVMPNEPTTSLNLQVGLWPEKTSFL  
QKSDLTSKLHSSLKSAYHQYLQTSQSHSSEKGARFGGIFQEPVSKYFRVQDSPGRSPFI  
ENVDKQTLRCNRPKGKMIYDLHESTYKQEVYCNIPDATSWSPNGVLKVVVRCWILYE  
KPHFRGQKCVLEEKGKVLNRDWILQNRHPQRNFILGSLKRVLKDCSIPETELFPQSDPA  
CCPVYIQRAPVNLLELNISKSVSFTVKSGVWLAYPDINFKGQATVLEEDHGLFEISTAEM  
KSLHPLQMGGKLVEMPMNLKVIIEKPHFHGQAKEFSEHIDSVNPNLKNNGDFHRIGSIR  
VIGGVWVAYEKEHFKGQQLLEEGDFEDSNACGALSSPILSFRYLQANFIESSVTLFESD  
LESGKFIDITNQEISDLEEIGFGSKTRSIVKSGVWVAYQQKFFCGEQYILEKGKYKCF  
DWGGSNNIIMSIRPIQLEPLGINEPPHLLKAFSKPGFQGEICDTEETSDDLTLMPCSFK  
VLRGCWLLYYQEDMFVNHCVLEEGLYADLTSCGCPASKVSKLPIDYVFEEPSISLFALE  
HCEGRELHLEEAVNSVLNLDLHFYTQSVVWKSGLWIAYESNFLGRQILLRPNEIPNWT  
FSRWKTIGSLRPMKQPAVYIRIKNRAQGEYLTVTGSLADTRATSVCISPYSKNTQIWYY  
CRGLFKSKASDTCLDVIGGRDTPGAKVALWTEHGQFRQKWRLNKNGTISSYLSQVLVDV  
KGGNYCDKTHIVNQPLEGEETQKWDIEIL

>sp|Q9BU40|CRDL1\_HUMAN Chordin-like protein 1 OS=Homo sapiens GN=CHRDL1 PE=1 SV=1

MGMKYIFSLFFLLLEGGKTEQVKHSETYCMFQDKKYRVGERWHYPYGLVYCVNCI  
CSENGNVLCSRVRCPNVHCLSPVHIPHLCCPRCPDSLPPVNNKVTSSCEYNGTTYQHGE  
LFVAEGLFQNRQPNQCTQCSCSEGNVYCGLKTCPKLTCAFPVSPDSCCRVCRGDGELSW  
EHSDGDIQRPANREARHSYHRSHYDPPPSRQAGGLSRFPGARSHRGALMDSQQASGTIV  
QIVINNKHKHGQVCVSNKTYSHGESWHPNLRAFGIVECVLCTCNVTKQECKKIHCNRY  
PCKYPQKIDGKCKVCPGKKAKELPGQSFNKGYFCGEETMPVYESVFMEDGETTRKIAL  
ETERPPQVEVHVWTIRKGILQHFHIEKISKRMFEELPHFKLVTRTTLQWKIFTEGEAQI  
SQMCSSRVCRTELEDLVKVLYLERSEKHC

>sp|O43889|CREB3\_HUMAN Cyclic AMP-responsive element-binding protein 3 OS=Homo sapiens  
GN=CREB3 PE=1 SV=1

MELELDAGDQDLLAFLEESGDLGTAPDEAVRAPLDWALPLSEVPSDWEVDDLCSLLSP  
PASNLILSSSNPCLVHHDHTYSLPRETVSMDLGECEISLTGRTGFMGLAIHTFPFAESES  
CRKEGTQMTQPHMEELAEQEIARLVLTDEEKSLEKEGLILPETLPLTKTEEQILKRVRR  
KIRNKRSAQESRRKKKVYVGGLESRLKYTAQNMELQNKVQLLEEQLSLDQLRKLQAM  
VIEISNKTSSSSTCILVLLVSFCLLLVPAMYSSDTRGSLPAEHGVLRSQRLRALPSEDYQ  
LELPAQSEVPKDSHQWLDGSDCVLQAPGNTSCLLHYMPQAPSAEPPELWPFDFSEP  
LCRGPILPLQANLTRKGGWLPTGSPSVILQDRYSG

>sp|Q96HD1|CRELD1\_HUMAN Cysteine-rich with EGF-like domain protein 1 OS=Homo sapiens  
GN=CRELD1 PE=1 SV=3

MAPWPPKGLVPAMLWGLSLFLNLPGIWLQPSPPPQSSPPPQPHPCHTCRGLVDSFNKGL  
ERTIRDNFGGGNTAWEEENLSKYKDSETRLVEVLEGVCSKSDFECHRLLELSEELVESWW  
FHKQQEAPDLFQWLCSDSLKLCCPAGTFGPSCLPCPGGTERPCGGYQCEGEGTRGSGH  
CDCQAGYGGEACGQCGLGYFEAERNASHLVCSACFGPCARCSGPEESNCLQCKKGWALHH



LKCVDIDECGTEGANCGADQFCVNTEGSYECRDCAKACLGCMGAGPGRCKKCSPGYQQVG  
SKCLDVDECETEVCPCGENKQCENTEGGYRCICAEGYKQMEGICVKEQIPESAGFFSEMTE  
DELVLQQMFFGIIICALATLAAKGDLVFTAIFIGAVAAMTYWLSERSDRVLEGFIKGR

>sp|Q13324|CRFR2\_HUMAN Corticotropin-releasing factor receptor 2 OS=Homo sapiens GN=CRHR2  
PE=1 SV=2

MDAALLHSLLEANCSLALAEELLLDGWGPPLDPEGYPYSYCNNTLDQIGTCWPRSAAGALV  
ERPCPEYFNGVKYNTTRNAYRECLNGTWASKINYSQCEPILDDKQRKYDLHYRIALVVN  
YLGHCVSVAALVAAFLLFLALRSIRCLRNVIHWNLITTFILRNVMMWFLQLVDHEVHESN  
EVWCRCITTIFNYFVVTNFFWMFVEGCVLHTAIVMTYSTERLRKCLFLFIGWCIPFPIIV  
AWAIGKLYYENEQCWFGKEPGDLVDYIYQGPIILVLLINFVFLFNIVRILMTKLRASTTS  
ETIQYRKAVKATLVLLPLLGYTMLFFVNPGEDDLQIMFIYFNSFLQSFQGFVSVFYC  
FFNGEVRSAVRKRWRWQDHHSLRVPARAMSIPTSPTRISFHSIKQTAAV

>sp|Q8WXF5|CRGN\_HUMAN Gamma-crystallin N OS=Homo sapiens GN=CRYGN PE=2 SV=1

MAQRSGKITLYEGKHFTGQKLEVFQDCDNFQDRGFMNRVNSIHVESGAWVCFNHPDFRQ  
QFILEHGDYPDFFRWNHSDHMGSCRVPVGMHGEHFRLEIFEGCNFTGQCLEFLEDSPFLQ  
SRGWVKNCVNTIKVYGDGAASPRSGAEDFQLSSSLQSDQGPEEATTKPATTQPPFLTA  
NL

>sp|P50238|CRIP1\_HUMAN Cysteine-rich protein 1 OS=Homo sapiens GN=CRIP1 PE=1 SV=3

MPKCPKCNKEVYFAERVTSLGKDWHRPCLKCEKCGKTLTSGGHAEHEGKPYCNHPCYAAM  
FGPKGFGGRGAESHTFK

>sp|P46109|CRKL\_HUMAN Crk-like protein OS=Homo sapiens GN=CRKL PE=1 SV=1

MSSARFDSSDRSAWYMGVSRQEAQTRLQGQRHGMFLVRDSSSTCPGDYVLSVSENSRVSH  
YIINSLPNRRFKIGDQEFDLPALLEFYKIHVLDTTTTIEPAPRYSPPMGSVSAPNLPT  
AEDNLEYVRTLYDFPGNDAEDLPFKKGEILVIEKPEEQWWSARNKDGRVGMIPVPYVEK  
LVRSSPHGKHGNRNSNSYGIPEPAHAYAQPQTTPLPAVSGSPGAITPLPSTQNGPVFA  
KAIQKRVPCAYDKTALALEVGDIVKVTMNINGQWEGEVNKRKGLFPFTHVKIFDPQNP  
DENE

>sp|Q8IUI8|CRLF3\_HUMAN Cytokine receptor-like factor 3 OS=Homo sapiens GN=CRLF3 PE=1 SV=2

MRGAMELEPELLLQEARENVEAAQSYRRELGHRLEGLREARRQIKESASQTRDVLKQHFN  
DLKGTLGKLLDERLVTLQEVDTIEQETIKPLDDCQKLIHGVNTAEDLVREGEIAMLGG  
VGEENEKLWSFTKKASHIQDLSLPEVPLLDVPCLSAQLDDSIILNIVKDHFHGTVASR  
PPVQIEELIEKPGGIIVRWCKVDDFTAQDYRLQFRKCTSNHFEDVYVGSETEFIVLHID  
PNVDYQFRVCARGDGRQEWSPWSVPQIGHSTLVPHEWTAGFEGYSLSSRRNIALRNDSES  
SGVLYSRAPTYFCGQTLTFRVETVGQPDRRDSIGVCAEKQDGYDSLQRDQAVCISTNGAV  
FVNGKEMTNQLPAVTSGSTVTFDIEAVTLGTTSNNEGHHFKLRVTISSNNREVVDWLLD  
QSCGSLYFGCSFFYPGWKVLVF

>sp|Q9UJA2|CRLS1\_HUMAN Cardiolipin synthase (CMP-forming) OS=Homo sapiens GN=CRLS1 PE=1  
SV=1

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRL  
PGIGQRNHCSGAGKAAPRAAGAGAAAAPGGQWGPASTPSLYENPWTIPNMLSMTRIGL  
APVLGYLIIIEEDFNIALGVFALAGLTDLLDGFARNWANQRSALGSALDPLADKILISIL  
YVSLTYADLIPVPLTYMIIISRDVMLIAAVFYVRYRTLPTPRTLAKYFNPCYATARKPTF  
ISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK

D

>sp|Q96RY5|CRML\_HUMAN Protein cramped-like OS=Homo sapiens GN=CRAMP1 PE=1 SV=3

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APPGAPQAPSPPGSQPDQHFLRSSVRPQSKRPRKDPSPAVGSGNAGGSGPRGKGAEGG  
GSSSGNVSGVAPAAPAGGSRSSSRNLGSSGGEKEEGKKVRRQWESWSTEDKNTFFEGLYE  
HGKDFEATQNNIALKYKKKGKPPASMVKNKEQVRHFYYRTWHKITKYIDFDHVFSRGLKKS  
SQELYGLICYGELRKKIGGCMDDKNATKLNELIQVGATTVRYKGRNLRKAPMCRALKKL  
CDPDGLSDEEDQKPVRLPLKVPIELQPRNNHAWARVQSLAQNPRLRMIVELHRKVSSLIE  
FLKQKWALHEVRVRKTLERQLQDSCSAPMQEKVTLHLFPGENCTLPLPGVARVVHSKA  
FCTVHWQEGGRCKQSAKDAHVLPPAQILGIQSGQGTARGQVKCPRSGAEGKGVGRPPPA  
DALQSSGESSPESAPGEGAALSLSSPDAPDRPPPRHQDTGPCLEKTPAEGRDSPTREPGA  
LPCACGQLPDLEDELSLLDPLPRYLKSCQDLIVPEQCRCADTRPGSEQPPLGGAASPEVL  
APVSKEAADLAPTGPSRPPGPGLLLDVCTKDLADAPAEELQEKGSAGPPPSQGGPAAARP  
PKEVPASRLAQQLREEGWNLTSESLTAEVYLMMGKPSKLQLEYDWLGPGRQDPRPGSL  
PTALHKQRLSCLLKLISTEVNPKLALANTISTASVRPAQEEQSMTPPGKVTVSSRSP  
RCPRNQASLRSSKTFPPSSAPCSSGLRNPPRPLLVPGPSSTGSNDSDGGLFAVPTTLPPN  
SRHGKLFSPSKEAELTFRQHLNSISMQSDFFLPKPRKLRNRHLRKPLVVQRTLLPRPSEN  
QSHNVCSFSILSNSSVTGRGSFRPIQSSLTKAALSRPIVPKVLPPQATSHLASAIDLAAT  
SAGILSGNPLPALDEGLSGISPLSSDEVTGAISGQDSTGTHQDGTLPVGGSDPFVSI  
PSRPEQEPVADSFQGSVLSLSELPKAPLQNGLSIPLSSSESSSTRLSPPDVSALLDISL  
PGPPEDALSQGEPAHISDSIIIEIAISSGQYGEVPLSPAKLNGSDSSKSLSPSSSPQP  
HWIASPTHDPQWYPSDSTDSSLSLFAFSISPEKSRKMLPTPIGTNSGTSLGPSLLDGN  
SRDSFVSRSLADVAEVVDSQLVCMNENSIDYISRFNDLAQELSIAEPGRREALFDGGGG  
GPAVSDLSQ

>sp|Q9UBG3|CRNN\_HUMAN Cornulin OS=Homo sapiens GN=CRNN PE=1 SV=1

MPQLLQNINGIIAEFRRYARTEGNCTALTRGELKRLLQEFAADVIVKPHDPATVDEVLR  
LDEHTGTVEFKEFLVLVFKVAQACFKTLESASEGACGSQESGSLHSGASQELGEGQRSG  
TEVGRAGKGQHYEGSSHRQSQQGSRGQNRPGVQTQGGATGSAWSSYDRQAESQSQRIS  
PQIQLSGQTEQTQKAGEGKRNTTEMRPERQPQTREQDRAHQGTGETVTGSGTQTQAGATQ  
TVEQDSSHQTGRTSKQTQATNDQNRGTETHGQGRSQTSAVTTGGHAQIQAGTHTQTPTQ  
TVEQDSSHQTGSTSTQTQESTNGQNRGTEIHGQGRSQTSAVTTGGHTQIQAGSHTTETVEQ  
DRSQTVSHGGAREQGTQTQPGSGQRWMQVSNPEAGETVPGGQAQTGASTESGRQWSST  
HPRRCVTEGQGDRTPTVVGEEWDDHSRETVILRLDQGNLHTSVSSAQGDAAQSEEKRG  
ITARELYSYLRSTKP

>sp|Q5TZA2|CROCC\_HUMAN Rootletin OS=Homo sapiens GN=CROCC PE=1 SV=1

MSLGLARAQEVELTLETVIQTLESSVLCQEKGLGARDLAQDAQITSLPALIREIVTRNLS  
QPESPVLLPATEMASLLSLQEENQLLQELSRVEDLLAQSRARDELAIKYNAVSEERLEQ  
ALRLEPGELETQEPRGLVRQSVELRRQLQEEQASYRRKLQAYQEGQQRQAQLVQRLQGKI  
LQYKKRCSELEQQLLERSGELEQQRLRDTEHSQDLESALIRLEEEQQRSASLAQVNAMLR  
EQLDQAGSANQALSEDIRKVTNDWTRCRKELEHREAARREEESFNAYFSNEHSRLLLLW  
RQVVGFRRLVSEVKMFTERDLLQLGGELARTSRVQAEAGLGLSTGLRLAESRAEALEKQ  
ALLQAQLEEQLRDKVLREKDLAQQQMQSDLDKADLSARVTEGLAVKRLEKQNLKQDQVN  
KDLTEKLEALESRLQEQALETEDGEGQLQTLRDLAQAVLSDESQVQLSGSERTADAS  
NGSLRGLSGQRTSPRRSSPGRGRSPRRGSPACSDSSTLALIHSAHKKRLQVQDMRG  
RYEASQDLLGTLRKQLSDESERRALEEQQLRLRDKTDGAMQAHEDAQREVQRLRSANEL

LSREKSNLAHSLQVAQQAAEELRQEREKLQAAQEELRRQRDRLEEEQEDAVQDGARVRRE  
LERSHRQLEQLEGKRSVLAKELVEVREALSRATLQRDMLQAEKAEVAEALTKAEAGRVEL  
ELSMTKLRAEEASLQDSLSKLSALNESLAQDKLDLNLVAQLEEEKSALQGRQRQAEQEA  
TVAREEQERLEELRLEQEVARQGLEGLSRVAEQAEALEQQLPTLRHERSQLQEQLAQLS  
RQLSGREQELEQARREAQRQVEALERAAREKEALAKEHAGLAVQLVAAEREGRTLSEEAT  
RLRLEKEALEGSLFEVQRQLAQLEARREQLEAEGQALLAKETLTGELAGLRQQIIATQE  
KASLDKELMAQKLVQAEREAQASLREQRAAHEEDLQRLQREKEAAWRELEAERAQLQSQL  
QREQEELLARLEAEKEELSEEIAALQQERDEGLLLAESEKQQALSLKESEKTALSEKLMG  
TRHSLATISLEMERQKRDAQSRQEQDRSTVNALTSELRLRAQREAAAAHAQEVRRQLQ  
QARDLGKQRDSCLREAEELRTLRLLEDARDGLRRELLEAQRKLRESQEGREVQRQEAGE  
LRRSLGEGAKEREALRRSNEELRSVKKAESEKISLKLANEDKEQKLALLEARTAVGKE  
AGELRTGLQEVERSRLEARRELQELRRQMKMLDSENTRLGRELAELQGRALGERAEKES  
RRETGLRLQRLKGEASLEVMRQELQVAQRKLQEQEGEFTRERRLLGSLEEARGTEKQQ  
LDHARGLELKLAAARAEAAELGLRLSAAEGRAQGLEAELARVEVQRRAAEAQLGGLRSAL  
RRGLGLGRAPSPAPRPVPGSPARDAPAEGSGEGLNSPSTLECSPGSQPPSPGPATSPASP  
DLDPEAVRGALREFLQELRSAQRERDELRTQTSALNRQLAEMEAERDSATSRARQLQKAV  
AESEEARRSVDGRLSGVQAEALALQEESVRRSERERRATLDQVATLERSLQATESELRASQ  
EKISKMKANETKLEGDKRRLKEVLDASESRTVKLELQRRSLEGELQRSRLGLSDREAQAAQ  
ALQDRVDSLQRQVADSEVKAGTLQLTVERLNGALAKVEESEGALRDKVRGLTEALAQSSA  
SLNSTRDKNLHLQKALTACEHDRQVLQERLDAARQALSEARKQSSSLGEQVQTLRGEVAD  
LELQRVEAEGQLQLREVLRQRQEGEAAALNTVQKLQDERRLQERLGSQRALAEAE  
KREVERSALRLEKDRVALRRTLDKVEREKLRSHEDTVRLSAEKGRLDRTLGALELEAEA  
QRQIQQLEAQVVVLEQSHSPAQLEVDAQQQQLELQQEVERLRSAAQATERTLEARERAHR  
QVRVGLLEEQVSTLKGQLQELRRSSAPFSPSPGPPEK

>sp|Q8IVE0|CROL2\_HUMAN Putative ciliary rootlet coiled-coil protein-like 2 protein  
OS=Homo sapiens GN=CROCCP3 PE=5 SV=1

MRGRYEASQDLLGTLRKQLSDSESERRALEEQQLQRLRDKTDMQAHEDAQREVQRLRSA  
KELLRREKSNLAHSLQVAQQQAKELRQERKKLQAAQEELRRQRYWLGEQEDAVQDGVRV  
RRELERSHRQLEQLEGKRSVLAKELVEVREALSRATLQRDMLQAEKAEVAEALTKAEGRG  
GLPAGLPVQAERPQREPCSGQVGSEPPCHPGHSWRKKSAPCRAGSGRRSRPQWHGKSRS  
GWRRCGWNRWRGRAWRAPYERRSRPRRQWSSSSPRCIMSAAACRSS

>sp|Q6UUV7|CRT3\_HUMAN CREB-regulated transcription coactivator 3 OS=Homo sapiens  
GN=CRT3 PE=1 SV=2

MAASPGSGSANPRKFSEKIALHTQRQAEETRAFEQLMTDLTLSRVQFQKLQQLRLTQYHG  
GSLPNVSQLRSSASEFQPSFHQADNVRGTRHHGLVERPSRNRFHPLHRRSGDKPGRQFDG  
SAFGANYSSQPLDESWPRQPPWKDEKHPGFRLTSALNRTNSDSALHTSALSTKPQDPYG  
GGGQSAWPAPYMGFCGGENNGHGEVASFPGLKEENLLNVPKPLPKQLWETKEIQSLSGR  
PRSCDVGGGNAFPHNGQNLGLSPFLGTLNTGGSLPDLTNLHYSTPLPASLDTTDHHFGSM  
SVGNSVNNIPAAMTHLGISSSGLQSSRSNPSIQATLNKTVLSSSLNNHPQTSVPNASAL  
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SQMVSSDRSLSFLPTEAAQVSPPPYPAPQELTQPLLQQPRAPEAPAAPQAASSLPQ  
SDFQLLPAQSSLTNFFPDVGFDDQSMRPGPAFPQVPLVQQGSRELQDSFHLRPSPYSN  
CGSLPNTILPEDSSTSLFKDLNSALAGLPEVSLNVDTPFPLEEELQIEPLSLDGLNMLSD  
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>sp|P82279|CRUM1\_HUMAN Protein crumbs homolog 1 OS=Homo sapiens GN=CRB1 PE=1 SV=2

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NNLDKDCDNMKDPCFSNPCQGSATCVNTPGERSFLCKCPPGYSGTICETTIGSCGKNSCQ  
HGGICHQDPIYPVICPAGYAGRFCEIDHDECASSPCQNGAVCQDGDGYSCFCVPGYQG  
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DALGAYFCDCAPGFLGDHCELNTDECASQPCLHGGLCVDGENRYSNCTGSGFTGTHCET  
LMLPCWSPKCHNNATCEDSVNNTCHCWPGYTGAQCEIDLNECNSNPCQSNGECVELSSE  
KQYGRITGLPSSFYSYHEASGYVICQPGFTGIHCEEDVNECSSNPCQNGGTENLPGNYT  
CHCPFDNLSRTFYGGRDCSDILLGCTHQCLNNGTCIPHFQDQGHGFSCLCPSGYTGLC  
EIATTLSEFGDGLFWKSGSVTTKGSVCNIALRFQTVQPMALLLFRSNRDVFKLELLSG  
YIHLISQVNNQSKVLLFISHNSTSDGEWHFVEVIFAEAVTLTLIDDSCKEKCIKAPTLE  
SDQSICAFQNSFLGGLPVGMTSNGVALLNFYNMPSTPSFVGCLQDIKIDWNHITLENISS  
GSSLNVKAGCVRKDWCESQPCQSRGRCINLWSYQCDCHRPYEGPNCLREYVAGRFQDD  
STGYVIFTLDESYGDTISLSMFVRTLQPSGLLLALENSTYQYIRVWLERGRLAMLTNPSP  
KLVVKFLVNDGNVHLISLKIKPYKIELYQSSQNLGFIASATWKIEKGDVIYIGGLPDKQE  
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VCHSRWDDFSCSCPALTSKGACEEVQWCGFSPCPHGAQCQPVLQGFECIANAVFNGQSGQ  
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LSLTSLSQSVNDGTWHEVTLSTMTDPLSQTSRWQMEVDNETPFVTSTIATGSLNFLKDNTDI  
YVGDRANDNIKGLQGCLSTIEIGGIYLSYFENVHGFINKPQEEQFLKISTNSVVTGCLQL  
NVCNSNPCLHGGNCEDIYSSYHCSCPLGWSGKHCELNIDECFSNPCIHGNCSDRVAAYHC  
TCEPGYTGVNCEVDIDNCQSHQCANGATCISHTNGYSCLCFGNFTGKFCRQSRLPSTVCG  
NEKTNLTCTYNGGNCTEFQTELKCMCRPGFTGEWCEKDIDECASDPCVNGGLCQDLLNKFQ  
CLCDVAFAGERCEVDLADDLISDIFTTIGSVTVALLILLLAIVASVVTSNKRATQGTYS  
PSRQEKEGSRVEMWNLMPPPAMERLI

>sp|Q14894|CRYM\_HUMAN Ketimine reductase mu-crystallin OS=Homo sapiens GN=CRYM PE=1 SV=1

MSRVP AFLSAAEEV EHLRSSLLIPLETALANFSSGPEGGMQPVRTVVPVTKHRGYLG  
VMPAYSAAEDALTTKLVTFYEDRGITSVVP SHQATVLLFEPSNGTLLAVMDGNVITAKRT  
AAVSAIATKFLKPPSSEVLCILGAGVQAYSHYEIFTEQFSFKEVRIWNRTKENAEKFADT  
VQGEVRCSSVQEAVAGADV IITVTLATEPILFGEWVKPGAHINAVGASRPDWRELDDEL  
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VAAKLIYDSWSSGK

>sp|Q99715|COCA1\_HUMAN Collagen alpha-1(XII) chain OS=Homo sapiens GN=COL12A1 PE=1 SV=2

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VVQYSSDTRTEFNLNQYYQRDELLAAIKKIPYKGGNTMTGDAIDYLVKNTFTESAGARVG  
FPKVAIIITDGKSQDEVEIPARELRNVGVEVFSLGIIKAADAKELKQIASTPSLNHVFNVA  
NFDAIVDIQNEIISQVCSGVDEQLGELVSGEEVVEPPSNLIAMEVSSKYVKLNWNPSPP  
VTGYKVILTPMTAGSRQHALLSVGPQTTLTVSRDLSADTEYQISVSAMKGMTSSEPISEME  
KTQPMKVQVECSRVDIKADIVFLVDGSYSIGIANFVKVRAFLEVLVKSFEISPNRVQIS  
LVQYSRDPHTEFTLLKKFTKVEDIEAINTFPYRGGSTNTGKAMTYVREKIFVPSKGSRSN  
VPKVMILITDGKSSDAFRDPAIKLRNSDVEIFAVGVKDAVRSELEAIASPPAETHVFTVE  
DFDAFQRISFELTQSICLRIEQELAAIKKKAYVPPKDLSEVTSYGFKTNWSPAGENVF

SYHITYKEAAGDDEVTVVEPASSTS SVLSSLPETLYLVNVTAEYEDGFSIPLAGEETTE  
EVKGAPRNKVTDETTDSFKITWTQAPGRVLRRI IYRPVAGGESREVTTPPNQRRRTLE  
NLIPDTKYEVSVIPEYFSGPGTPLTGNAATEEVRGNPRDLRVSDPTTSTMKLSWSGAPGK  
VKQYLVTYTPVAGGETQEVTVRGDTTNTVLQGLKEGTQYALSVTALYASGAGDALFGEGT  
TLEERGSPQDLVTKDITDTSIGAYWTSAPGMVRGYRVSWKSLYDDVDVTGEKNLPEDAIHT  
MIENLQPETKYRISVFATYSSGEGEPLTGDATELSQDSKTLKVDEETENTMRVTWKPPAP  
GKVVNRYRVYRPHGRGKQMVAKVPPTVTSTVLKRLQPQTTYDITVLP IYKMGEGKLRQGS  
GTTASRFKSPRNKTS DPTMSSFRVTWEPAPGEVKGYKVFHPTGDDRRLGELVVGPDYD  
TVVLEELRAGTTYKVN VFMGFDGGESSPLVGQEMTTLSDTTVMPI LSSGMECLTRAEADI  
VLLVDGSWSIGRANFRTVRSFISRIVEVFDIGPKRVQIALAQYSGDPRTIEWQLNAHRDKK  
SLLQAVANLPYKGGNTLTGMALNFI RQQNFRTQAGMRPRARKIGVLITDGKSQDDVEAPS  
KKLKDEGVELFAIGIKNADEVELKMIATDPDDTHAYNVADFESLSRIVDDL TINLCSVK  
GPGDLEAPSNLVISERTHRSFVSWTPPSDSVDRYKVEYYPVSGGKRQEFYVSRMETSTV  
LKDLKPETEYVVNVYSVVEDEYSEPLKGTEKTLPPVVS LNIYDVGPTTMHVQWQPVGGA  
TGYILSYKPVKDTEPTRPKEVRLGPTVNDMQLTDLVPNTEYAVTVQAVLHDLTSEPVTVR  
EVTLP LPRPQDLKLRDVTHSTMNVFWEPPVGKVRKYIVRYKTPEEDVKEVEVDRSETSTS  
LKDLFSQTLTYTVSVSAVHDEGESPPVTAQETTRPV PAPTNLKITEVTSEGFRGTWDHGAS  
DVS LYRITWAPFGSSDKMETILNGDENTLVFENLNPNTIYEVSITAIYPDESESDDLIGS  
ERTLPILTQAPKSGPRNLQVYNATSNSLTVKWD PASGRVQKYRITYQPSTGEGNEQTTT  
IGGRQNSVVLQKLKPDTPYTITVSSLYPDGEGGRMTGRGKTKPLN TVRNLRVYDPSTSTL  
NVRWDHAEGNPRQYKLFYAPAAGGPEELVIPGNTNYAILRNLQPDTSYTVTVVPVYTEG  
DGGRTSDTGRTL MRGLARNVQVYNPTPNSLDVRWDPAPGPVLQYRVVYSPVDGTRPSESI  
VVPGNTRMVHLERLIPD TLYSVNLVALYSDGEGNPSPAQGRTLPRSGPRNLRVFGETTNS  
LSVAWDHADGPVQYRIIYSPTVGDPIDEYTTVPGRNNVILQPLQPDTPYKITVIAVYE  
DGDGGHLTGNGRTVGLLPQNIHISDEWYTRFRVSWDPSPSVLGYKIVYKPVGSNEPME  
AFVGEMTSYTLHNLNPSTTYDVNVYAQYDSGLSVPLTDQGTTL YLNVTDLKTYQIGWDTF  
CVKWSPHRAATSYRLKLSPADGTRGQEITVRGSETSHCFGLSPD TDYGVTVFVQTPNLE  
GPGVSVKEHTTVKPTEAPTEPTPPPPPTIPPARDVCKGAKADIVFLTDASWSIGDDNFN  
KVVKFIFNTVGGFDEISPAGIQVSFVQYSDEVKSEFKLNTYNDKALALGALQNI RYRGGN  
TRTGKALTFIKEKVL TWESGMRKNVPKVLVVVTDGRSQDEVKKAALVIQQSGFSVFVVG  
ADV DYNELANIASKPSERHVFIVDDFESFEKIEDNLITFVCETATSSCLIYLDGYTSPG  
FKMLEAYNLTEKNFASVQGVSLSGSFPSYSAYRIQKNAFVNQPTADLHPNGLPPSYTII  
LLFRLLPETPSDPFAIWQITDRDYKPQGV IADPSSKTL SFFNKDTRGEVQTVTFDTEEV  
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FQIQSFDIVCSPVWTSRDRCCDIPSRREDEGKCPAFPN SCTCTQDSVGP PPGPPAGGPGA  
KGPRGERGISGAIGPPGPRGDIGPPGPQPPGPQGNGLSIPGEQGRQGMKG DAGEPGLP  
GRTGTPGLPGPPGPMGPPGDRGFTGKD GAMGPRGPPGPPGSPGSPGVTGPSGKPGKPGDH  
GRPGPSGLKGEKGD RGDIASQNMRAVARQCEQLISGQMNRFNQMLNQIPNDYQSSRNQ  
PGPPGPPGPPGSAGARGEPPGGRPGFPGTPGMQGP GERGLPGEKGERGTGSSGPRGLP  
GPPGPQGESRTGPPGSTGSRGPPGPPGPRPGNSGIRGPPGPPGYCDSSQCASIPYNGQGY  
GSG

>sp|Q5RI15|COX20\_HUMAN Cytochrome c oxidase protein 20 homolog OS=Homo sapiens GN=COX20  
PE=1 SV=2

MAAPPEPGEPEERKSLKLLGFLDVENTPCARHSILYGSLSGVVAGFGHFLFTSRIRRS CD

VGVGGFILVTLGCWFHCRYNYAKQRIQERIAREEIKKKILYEGTHLDPERKHNGSSSN

>sp|Q9UPN4|CP131\_HUMAN Centrosomal protein of 131 kDa OS=Homo sapiens GN=CEP131 PE=1 SV=3

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ATGPGGSQAINNLRNSSTTQVSQPRSGSPRPTEPTDFLMLFEGSPSGKKRPASLSTAPS  
EKGATWNVLDDQPRGFTLPSNARSSSALDSPAGPRRKECTVALAPNFTANNRSNKGAVGN  
CVTTMVHNRYTPSERAPPLKSSNQTAAPSLNNI IKAATCEGSESSGFGKLPKNVSSATHSA  
RNNTGGSTGLPRRKEVTEEEAERFIHQVNQATVTIQRWYRHQVQRRGAGAARLEHLLQAK  
REEQRQRSGEGTLLDLHQKEAARRKAREEKARQARRAAIQELQQKRALRAQKASTAERG  
PPENPRETRVPGMRQPAQELSPTPGGTAHQALKANNTGGGLPAAGPGDRCLPTSDSSPEP  
QQPPEDRTQDVLQAAGDNLEMMAPSRRGSASRGPLEELLHTLQLEKEPDVLP RP RTH  
HRGRYAWASEVTTEDDASSLTADNLEKFGKLSAFPEPPEDGTLLSEAKLQSIMSFLDEME  
KSGQDQLDSQQEGWVPEAGPGPLELGSEVSTSVMLRKLEVEEKKQAMLLLQRALAQQRDL  
TARRVKETEKALSRQLQRQREHYEATIQRHAFIDQLIEDKKVLSEKCEAVVAELKQEDQ  
RCTERVAQAQAQHELEIKKKELMSATEKARREKWISEKTKIKEVTVRGLEPEIQKLIA  
RHKQEVRRRLKSLHEAELLQSDERASQRCLRQAEELREQLEREKEALGQGERERARQRFQQ  
HLEQEQWALQQQRQLYSEVAEERERLGQQAARQRAELEELRQGLEESSALTRALAEF  
EKGREEQERRHQMELNTLKKQLELERQAWAAGRTRKEEAWLLNREQLREEIRKGRDKEI  
ELVIHRLEADMALAKEESEKAAESRIKRLRDKYEAELSELEQSERKLQERCSELKQQLGE  
AEGENLRLQGLVRQKERALEDQAQAVNEQLSSERSNLAQVIRQEFEDRLAASEEETRQAKA  
ELATLQARQQLEEEVHRRVKTALARKEEAVSSLRTQHEAAVKRADHLEELLEQHRRPTP  
STK

>sp|Q66GS9|CP135\_HUMAN Centrosomal protein of 135 kDa OS=Homo sapiens GN=CEP135 PE=1 SV=2

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SANFDFVLEPYKLENARLSRENNELYLEMLKREHSDQHVKELKTSLKCCARETADLKFL  
NNQYAHKLKLEKESAKNERIQQLQEKNLHAVVQTPGGKKRSIAFRRQRMQIDEPVPPS  
EVSSYPVPQPDPIADLLQVADNRIQELQQEVHQLQEKLAMMESGVRDYSKQIELRERE  
IERLSVALDGGSPDVLSESRNKTNEKLI AHLNIQVDFLQQANKDLEKRIRELMETKET  
VTSEVVNLSNKNEKLCQELTEIDQLAQQLERHKEEVLETADKELGEAKKEIKRKLSEMQD  
LEETMAKLQLELNLCKEKEKERSDELLVKSDELTVVHQLEQEKQRLSKKVESFAVTERQL  
TLEVERMRLEHGIKRRDRSPSRDLTFLKGIEEERDYYKKELERLQHIIQRRSCSTSYSAR  
EKSSIFRTPEKGDYNSEIHQITRERDELQRMLERFEKYMEDIQSNVKLLTAERDKLSVLY  
NEAQEELSALRKESTQTAPHNIVSLMEKEKELALDLRRIMAEKEALREKLEHIEEVSL  
FGKSELEKTIEHLTCVNHQLESEKYELKSKVLIMKETIESLENKLVQAQKFHVAGDSS  
HQKTEVNSLRIVNEQLQRSVDDYQHRLSIKRGESASAQAIKILEEKIDELNLKMTSQDE  
EAHVMKKTIGVIDKEKDFLQETVDEKTEKIANLQENLANKEKAVAQMKIMISECESSVNQ  
LKETLVNRDREINSLRRQLDAAHKELDEVGRSREIAFKENRRLQDDLATMARENQEISLE  
LEAAVQEKEEMKSRVHKYITEVSRWESLMAAKEKENQDLLDRFQMLHNRAEDWEVKAHQA  
EGESSVRLELLSIDTERRHLRERVELLEKEIQEHINAHHAYESQISSMAKAMSRLEEEL  
RHQDEKATVLNDLSSLRELCKLDSGKDIMTQQLNSKNLEFERVVVELENVKSESDDLK  
KQLSNERHTVKNLESLLATNRDKEFHSLTSHEKDTEIQLLKEKLTSESKLTSQSRENT  
MLRAQVAQLQTDYDALKRQISTERYERERAIQEMRRHGLATPPLSSTLRSPSHSPEHRNV

>sp|O43174|CP26A\_HUMAN Cytochrome P450 26A1 OS=Homo sapiens GN=CYP26A1 PE=1 SV=2

MGLPALLASALCTFVLP LL LFLAAIKLWDLYCVSGDRSCALPLPPGTMGFPFFGETLQM  
VLQRRKFLQMKRRKYGFIYKTHLFGRPTRVVMGADNVRRILLGEHRLVSVHWPASVRTIL

GSGLCLSNLHDSHQRKKVIMRAFSREALCYVPVITEEVGSSEQLWLSGGERGLLVYPE  
VKRLMFRIAMRILLGCEPQLAGDGDSEQLVEAFEEMTRNLFSLPIDVPFSGLYRGMKAR  
NLIHARIEQNIRAKICGLRASEAGQGCKDALQLLIEHSWERGERLDMQALKQSSTELLFG  
GHETTASAATSLITYLGLYPHLQKVREELKSKGLLCKSNQDNKLDMEILEQLKYIGCVI  
KETLRLNPPVPGGFRVALKTFELNGYQIPKGWNVIIYSICDTHDAEIFTNKEEFNPDRFM  
LPHPEDASRFSFIPFGGGLRSCVGKEFAKILLKIFTVELARHCDWQLLNGPPTMKTSPTV  
YPVDNLPARFTHFHGEI

>sp|P33260|CP2C1\_HUMAN Cytochrome P450 2C18 OS=Homo sapiens GN=CYP2C18 PE=1 SV=3

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YGPVFTVYFGLKPIVVLHGYEAVKEALIDHGEEFSGRGSFPVAEKVNKGLGILFSNGKRW  
KEIRRFCLMTLRNFMGKRSIEDRVQEEARCLVEELRKTNASPCDPTFILGCAPCNVICS  
VIFHDFDYDKQRFNLMEKFENLRILSSPWIVQCNFPALIDYLPGSHNKIAENFAYI  
KSYVLERIKEHQESLDMNSARDFIDCFLIKMEQEKHNQQSEFTVESLIATVTDMFGAGTE  
TTSTTLRYGLLLLLKYPEVTAKVQEEIECVVGRNRSPCMQDRSHMPYTDVAVHEIQRYID  
LLPTNLPHAVTCDVKFKNYLIPKGTIIITSLTSVLHNDKEFPNPEMFDPGHFLDKSGNFK  
KSDYFMPFSAGKRMCMGEGLARMELFLFLTILQNFNLKSQVDPKDIDITPIANAFGRVP  
PLYQLCFIPV

>sp|A0A087X1C5|CP2D7\_HUMAN Putative cytochrome P450 2D7 OS=Homo sapiens GN=CYP2D7 PE=5  
SV=1

MGLEALVPLAMIVAIFLLLVDLMHRHQRWAARYPPGPLPLPGLGNLLHVDFQNTPYCFDQ  
LRRRFQDVFLSLAWTPVVVLNGLAAVREAMVTRGEDTADRPPAPIYQVLGFGPRSQGV  
LSRYGPAWREQRRFSVSTLRNLGLGKKSLEQWVTEEAACLCAAFADQAGRPFRPNGLLDK  
AVSNVIASLTCGRRFEYDDPRFLRLDLAQEGLKEESGFLREVLNAVVPVLPHPALAGKV  
LRFQKAFLTQLDELLTEHRMTWPAQPPRDLTEAFLAKKEKAKGSPESSFNDENLRIVVG  
NLFLAGMVTSTTLAWGLLLMILHLDVQRGRRVSPGCPVGVTHVCPVRVQQEIDDVIGQV  
RRPEMGDQAHMPCTTAVIHEVQHFGDIVPLGVTHMTSRDIEVQGFRIPKGTTLITNLSSV  
LKDEAVWKKPFRFHPEHFLDAQGHFVKPEAFLPFSAGRRACLGEPLARMELFLFFTSLQ  
HFSFSVAAGQPRPSHSRVVSFLVTPSPYELCAVPR

>sp|P51589|CP2J2\_HUMAN Cytochrome P450 2J2 OS=Homo sapiens GN=CYP2J2 PE=1 SV=2

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FEQSHLEVQLFVKKYGNLFSLELGDISAVLITGLPLIKEALIHMDQNFNRPVTPMREHI  
FKKNGLIMSSGQAWKEQRRFTLTALRNFGLGKKSLEERIEEAQHLTEAIKEENGQPFDP  
HFKINNAVSNIICSITFGERFEYQDSWFQQLKLLDEVTYLEASKTCQLYNVFPWIMKFL  
PGPHQTLFSNWKKLKLFVSHMIDKHKRDWNPATRDIDAYLKEMSKHTGNPTSSFHEEN  
LICSTLDLFFAGTETTSTTLRWALLYMALYPEIQEKVQAEIDRVIGQGQPSTAARESMP  
YTNAVIHEVQRMGNIIPLNVPREVTVDTTLAGYHLPKGTMLTNLTALHRDPTWATPDT  
FNPDHFLENGQFKKREAFMPFSIGKRACLGEQLARTELIFFTSLMQKFTFRPPNNEKLS  
LKFRMGITISPVSHRLCAVPQV

>sp|Q7Z449|CP2U1\_HUMAN Cytochrome P450 2U1 OS=Homo sapiens GN=CYP2U1 PE=1 SV=1

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PGPTPWPLVGNFGHVLLPPFLRRRSWLSSRTRAAGIDPSVIGPVLLAHLARVYGSIFS  
FIGHYLVVLSDFHSVREALVQAEVFSRPRVPLISIVTKEKGVVFAHYGPVWRQQRKF  
SHSTLRHFGLGLSLEPKIIIEFKYVKAEMQKHGEDPFCPFSIISNAVSNIICSLCFGQR  
FDYTNSEFFKMLGFMRSRGLEICLNSQVLLVNICPWLYLPGPFKELRQIEKDITSFLKK

IIKDHQESLDRENPDQFIDMYLLHMEERKNNSSSFDEEYLFYIIIGDLFIAGTDTTNS  
LLWCLLYMSLNPDVQEKVHEEIERVIGANRAPSLTDKAQMPYTEATIMEVQRLTVVVPLA  
IPHMTSENTVLQGYTIPKGTILIPNLWSVHRDPAIWEKPEDFYPNRFLDDQGQLIKKETF  
IPFGIGKRVCMEQLAKMELFLMFVSLMQSFALPEDSKKPLLGRFGLTLAPHPFNIT  
ISRR

>sp|P98187|CP4F8\_HUMAN Cytochrome P450 4F8 OS=Homo sapiens GN=CYP4F8 PE=1 SV=1

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LGHLGLVTPTEEGLRVLTQLVATYPQGFVRWLGPITPIINLCHPDIVRSVINTSDAITDK  
DIVFYKTLKPWLGDGLLSVGDKWRHHRRLLTPAFHFNILKPYIKIFSANSIMHAKWQR  
LAMEGSTCLDVFEHISLMTDSLQKCIFSFDSNCQEKPSYITAIMELSALVVKRNNQFF  
RYKDFLYFLTGPCRRFRHACRLVHDFDAVIQERRRTLTSQGVDDFLQAKAKSKTLDFID  
VLLSLEDKNGKELSEDIRAEADTFMFGGHDTTASGLSWVLYNLAHPEYQERCRQEVQE  
LLKDREPKEIEWDDLAQLPFLTMCLKESRLHPPIPTFARGCTQDVVLPDSRVIPKGNVC  
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>sp|075881|CP7B1\_HUMAN 25-hydroxycholesterol 7-alpha-hydroxylase OS=Homo sapiens  
GN=CYP7B1 PE=1 SV=2

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NLRKDPLRFMKTLLQKQHGDTFTVLLGGKYITFILDPFQYQLVIKNHKQLSFRVFSNKLE  
KAFSISQLQKNHMDNDELHLCYQFLQGKSLDILLESMMQNLKQVFEPQLKTTSWDTAEL  
YPFCSSIIFEITFTTIYGVIVCDNNKFISELRDDFLKFDDKFAYLVSNPIELLGNVKS  
IREKIIKCSSEKLAKMQGWSEVFQSRQDVLEKYYVHEDLEIGAHHLGFLWASVANTIPT  
MFWAMYLLRHPEAMAAVRDEIDRLLQSTGQKKGSGFPIHLTREQLDSLICLESSIFEAL  
RLSSYSTTIRFVEEDLTLSSETGDYCVRKGDVAIFPPVLHGDPEIFEAPPEEFYDRFIE  
DGKKKTTFKRGKKLKCYLMPFGTGTSCPGRFFALMEIKQLLVILLTYFDLEIIDDKPI  
GLNYSRLLFGIQYPSDVLFRYKVK

>sp|Q9BZB8|CPEB1\_HUMAN Cytoplasmic polyadenylation element-binding protein 1 OS=Homo  
sapiens GN=CPEB1 PE=1 SV=1

MALSLEEEAGRIKDCWDNQEAPALSTCSNANIFRRINAILDNSLDFSRVCTTPINRGIHD  
HLPDFQDSEETVTSRMLFPTSAQESSRGLPDANDLCLGLQSLSLTGWDRPWSTQSDSSA  
QSSTHSVLSMLHNPLGNVLGKPPSLPLDPLGSDLVDKFPAPSVRGSRLDTRPILDSRS  
SSPSDSDTSGFSSGSDHLSDLISSLRISPPLPFLSLSGGPRDPLKMGVGSRMDEQAAL  
AAVTPSPTSASKRWPGASVWPSWDLLEAPKDPFSIEREARLHRQAAAVNEATCTWSGQLP  
PRNYKNPIYSCKVFLGGVPWDITEAGLVNTRFRVFGSLSVWPGKDGHPRCPPKGNMPKG  
YVYLVFELEKSVRSLLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWVLADSNFVR  
SPSQRLDPSRTVFVGAHGMNAEALAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNN  
QRSYLKAVSAAFVEIKTKFTKKVQIDPYLEDLCHICSSQPGPFPCRQVCFKYFCRSC  
WHWRHSMEGLRHHSPLMRNQKNRDS

>sp|Q7Z5Q1|CPEB2\_HUMAN Cytoplasmic polyadenylation element-binding protein 2 OS=Homo  
sapiens GN=CPEB2 PE=2 SV=3

MPPSPDSENGFYPLPSSMNPFFPSFSPVSPHGCTGLSVPTSGGGGGGFGGPFSA  
TAVPPPPPPAMNIPQQQPPPAAPQPPQSRSPVSPQLQQQHAAAAAFLQQRNSYNHHQPLL  
KQSPWSNHQSSGWTGSMWGAHGRDHRRGTGNGIPGTMNQISPLKKPFGSNVIAPPKF  
TRSTPSLTPKSWIEDNVFRTDNNSENTLLPLQVRSSLQLPAWGSDSLQDSWCTAAGTSRID



QDRSRMYDSLNMHSLNSLIDIMRAEHDPLKGRLSYPHPGTDNLLMLNGRSSLPIDDDL  
LDDGHSQVGVLSPTCYSAHQNGERIERFSRKVFVGGLPDIDEDITASFRRFGPLVV  
DWPKAESKSYFPPKGYAFLLFQEESVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRP  
WNLSDSDFVMDGSQPLDPRKTIFFVGGVPRPLRAVELAMIMDRLYGGVCYAGIDTDPELKY  
PKGAGRVAFSNQSYIAAISARFVQLQHGDIDKRVEVKPYVLDDQMCDECQGARCCKFA  
PFFCANVTCLQYYCEFCWANIHSRAGREFHKPLVKEGADRPRQIHFRWN

>sp|095741|CPNE6\_HUMAN Copine-6 OS=Homo sapiens GN=CPNE6 PE=1 SV=3

MSDPEMGWVPEPTMTLGASRVELRVSCHGLLDRDTLTKPHPCVLLKLYSDEQWVEVERT  
EVLRSCTSPVFSRVLALAYFFEEKQLQFHVDAEDGATSPRNDTFLGSTECTLGQIVSQ  
TKVTKPLLLKNGKTAGKSTITIVAEVSGTNDYVQLTFRAYKLDNKDLFSKSDPFMEIYK  
TNEDQSDQLVWRTEVVNNLNSWEPFRLSLHSLCSDVHRPLKFLVYDYDSSGKHDFIG  
EFTSTFQEMQEGTANPGQEMQWDCINPKYRDKKKNYKSSGTVVLAQCTVEKVHTFLDYIM  
GGCQISFTVAIDFTASNGDPRSSQSLHCLSPRQPNHYLQALRAVGGICQDYDSDKRFPF  
GFGARIPPNEFVSHDFAINFDPENPECEEISGVIASYRRCLPQIQLYGPTNVAPIINRVA  
EPAQREQSTGQATKYSVLLVLTGQVSDMAETRTAIVRASRLPMSIIIVGVGNADFSDMR  
LLDGGDGLRCPRGVPAARDIVQFVPRDFKDAAPSALAKCVLAEVPRQVVEYYASQGIS  
PGAPRPCTLATTPSPSP

>sp|Q16630|CPSF6\_HUMAN Cleavage and polyadenylation specificity factor subunit 6 OS=Homo sapiens GN=CPSF6 PE=1 SV=2

MADGVDHIDIYADVGEFFNQEAAYGGHDQIDLYDDVISPSANNGDAPEDRDYMDTLPTTV  
GDDVGKGAAPNVVYTYTGKRIALYIGNLTWTTDEDLTEAVHSLGVNDILEIKFFENRAN  
GQSKGFALVGVGSEASSKKLMDLLPKRELHGQNPVVTCPNKQFLSQFEMQSRKTTQSGQM  
SGEGKAGPPGGSSRAAFPQGGGRGRFPGAVPGGDRFPGAGPGGPPPPFAGQTPPRPP  
LGPPGPPGPPPPPGQVLPPLAGPPNRGDRPPPPVLPFGQPFQPPPLGPLPPGPPPPV  
PGYGPPPPPPPPQPPPPPGFPFRPPGPGPLGPPLTLAPPPHLPGPPPGAPPPAPHVNPA  
FFPPPTNSGMPTSDSRGPPPTDPYGRPPPYDRGDYGGPREMDTARTPLSEAEFEEIMNR  
NRAISSAISRAVSDASAGDYGSAIETLVTAISLIKQSKVSADDRCKVLISLQDCLHGI  
ESKSYGSGSRERSRERDHSRSREKSRRHKSRSRDRHDDYYRERSRERERHRDRDRDRDR  
ERDREREYRHR

>sp|P23786|CPT2\_HUMAN Carnitine O-palmitoyltransferase 2, mitochondrial OS=Homo sapiens GN=CPT2 PE=1 SV=2

MVPRLLLRAWPRGPAVGPAPSRLSAGSGPGQYLQRSIVPTMHYQDSLRLPIPKLEDT  
IRRYLSAQKPLLNDGQFRKTEQFCKSFENGIGKELHEQLVALDKQNKHTSYISGPWFDMY  
LSARDSVVLNFPNPFMAFNPDPKSEYNDQLTRATNMTVSARFLKTLRAGLLEPEVFHLNP  
AKSDTITFKRLIRFVPSSLSWYGAYLVNAYPLDMSQYFRLFNSTRLPKPSRDELFTDDKA  
RHLLVLRKGNFYIFDVLDQDGNIVSPSEIQAHLKYILSDSSPAEFPLAYLTSENNDIWA  
ELRQKLMSSGNEESLRKVDSAVFCCLDDFPKDLVHLSHNLHGDTNRWFDKSFNLI  
AKDGSTAVHFEHSGDGVAVLRFNEVFKDSTQTPAVTPQSQPATTDSTVTQKLNFE  
DALKTGITAAKEKFDATMKTLTIDCVQFQGGKEFLKKQKLSPDVAQLAFQMAFLRQYG  
QTVATYESCSTAFAKHGRTETIRPASVYTKRCSEAFVREPSRHSAGELQMMVECSKYHG  
QLTKEAAMGQGFDRHLFALRHAAAKGIILPELYLDPAYGQINHNVLSTSTLSSPAVNLG  
GFAPVVSDDGFGVYAVHDNWIGCNVSSYPGRNAREFLQCVEKALEDMDALEGKSIKS

>sp|Q8N436|CPXM2\_HUMAN Inactive carboxypeptidase-like protein X2 OS=Homo sapiens GN=CPXM2 PE=2 SV=3

MSRPGTATPALALVLLAVTLAGVGAQGALEDPDYYGQEIWSREPYARPEPELETFSPP  
LPAGPGEEWERRPQEPRPPKRATKPKKAPKREKSAPEPPPPGKHSNKKVMRTKSSEKAAN  
DDHSVRVAREDVRESCPPLGLETLKITDFQLHASTVKRYGLGAHRGRLNIQAGINENDFY  
DGAWCAGRNDLQQWIEVDARRLTRFTGVITQGRNSLWLSDWVTSYKVMVSNDSTWTVK  
NGSGDMIFEGNSEKEIPVLNELPVMVARYIRINPQSWFDNGSICMRMEILGCPLDPNN  
YYHRRNEMTTTDDLDFKHHNYKEMRQLMKVVNEMCPNITRIYNIGKSHQGLKLYAVEISD  
HPGEHEVGEPEFHYIAGAHGNEVLGRELLLLLVQFVCQEYLARNARIVHLEETRIHVLP  
SLNPDGYEKAYEGGSELGGWSLGRWTHDGDIDNNNFPDLNTLLWEAEDRQNVPRKVPNH  
IAIPEWFLSENATVAAETRAVIAWMEKIPFVLGGNLQGGELVVAYPYDLVRSPWKTQEHT  
PTPDDHVFRWLAYSASTHRLMTDARRRVCHTEDFQKEEGTVNGASWHTVAGSLNDFSYL  
HTNCFELSIYVGCDKYPHESQLPEEWENNRESLIVFMEQVHRGIKGLVRDSHGKGI  
PNAI  
ISVEGINHDIRTANDGDYWRLLNPGEYVVTAKAEGFTASTKNCMVGYDMGATRCDFTL  
SK  
TNMARIREIMEKFGKQPVSLPARRLKLRGQKRRQRG

>sp|Q8WW18|CQ050\_HUMAN Uncharacterized protein C17orf50 OS=Homo sapiens GN=C17orf50 PE=2 SV=2

MDKHGVKTPLWKKETEELRAEDAEQEEGKEGSEDEDEDNQRPLEDSATEGEEPPRVAEEG  
EGRERRSVSYCPLRQESSTQQVALLRRADSGFWGWLGPLALLGGLTAPTDRKRSLPEEPC  
VLEIRRRPPRRGGCACCELLFCKKCRSLHSHPAYVAHCVLDPDLGKAGAAGNS

>sp|Q8N3J3|CQ053\_HUMAN Uncharacterized protein C17orf53 OS=Homo sapiens GN=C17orf53 PE=1 SV=1

MACSLQKLFAVEEEFEDEDFLSAVEDAENRFTGSLPVNAGRLRPVSSRPQETVQAQSSRL  
LLLHPTAPSEALGLPDLCLPASSTPSADSRPSCIGAAPLRPVSTSSSWIGNQRRVTVT  
EVLRETARPQSSALHPLLTTFESQQQVGGFEGPEQDEFDKVLASMELEEPGMELECGVSS  
EAIPILPAQQREGSVLAKKARVVDLSGSCQKGPVPAIHKAGIMSAQDES LDPVIQCRTPR  
PPLRPGAVGHLPVPTALTVP TQQLHWEVCPQRSVPQALQPLQAARGTIQSSPQNRFP  
CQP  
FQSPSSWLSGKAHLPRPTPNSSCSTPSRTSSGLFPRIPLQAPVSSIGSPVGT  
PKGPQ  
GALQTPIVTNHLVQLVTAASRTQQP  
THPSTRAKTRRFPGPAGILPHQQSGRSLEDIMVS  
APQTPTHGALAKFQTEIVASSQASVEEDFGRGPWLT  
MKSTLGLDERDPSCFLCTYSIVMV  
LRKQAALKQLPRNKVPNMAMVIKSLTRSTMDASVVF  
KDPTGEMQGTVHRLLETCQNELK  
PGSVLLLKQIGVFSPLRNHYLNVT  
PNNLVHIYSPDSGDGSFLKPSQP  
FPKDSGSFQHDV  
AAKPEEGFRTAQNLEAEASPEEELPEADDLG  
LLSELPEDFFCGTSS

>sp|P23508|CRCM\_HUMAN Colorectal mutant cancer protein OS=Homo sapiens GN=MCC PE=1 SV=2

MNSGVAMKYGNDSSAELSELHSAALASLKGDIVELNKRLQQTERERDLLEKKLAKAQCEQ  
SHLMREHEDVQERTTLRYEERITELHSVIAELNKKIDRLQGTTIREEDEYSELSELSQS  
QHEVNEDSRMDQDQTSVSIPENQSTMVTADMDNCSDLNSELQRVLTGLENVVCGRKKSS  
CSLSVAEVDKHIEQLTASEHCDLAIKTVEEIEGVLGRDLYPNLAEERSRWEKELAGLRE  
ENESLTAMLCSKEEELNRTKATMNAIREERDLRRRVRELQTRLQSVQATGPSSPGRLTS  
TNRPINPSTGELSTSSSNDIPIAKIAERVKLSKTRSESSSSDRPVLGSEISSIGVSSSV  
AEHLAHS LQDCSNIQEIFQTLYSHGSAISESKIREFEVETERLNSRIEHLKSQNDLLTIT  
LEECKSNAERMSMLVGKYESNATALRLALQYSEQCIEAYELLLALA ESEQSLILGQFRAA  
GVGSSPGDQSGDENITQMLKRAHDCRKAENAAKALLMKLDGSCGGAFAVAGCSVQPWES  
LSSNSHTSTTSSTASSCDTEFTKEDEQRLKDYIQQLKNDRAAVKLTMLELESIHIDPLSY  
DVKPRGDSQRLDLENAVLMQELMAMKEEMAELKAQLYLLEKEKKALELKLSTREAQEQAY  
LVHIEHLKSEVEEQKEQRMRSLSSTSSGSKDKPGKECADAASPALS LAELRTTCSENELA

AEFTNAIRREKKLKARVQELVSALERLTKSSEIRHQSAEFVNDLKRANSNLVAAYEKAK  
KKHQNKLLKKLESQMMAMVERHETQVRMLKQRIALLEEENSRPHTNETSL

>sp|Q8N1N5|CRPAK\_HUMAN Cysteine-rich PAK1 inhibitor OS=Homo sapiens GN=CRIPAK PE=1 SV=1

MHEPSLCANVECPAHTCPCGVPACSCAHVECPAHTCRCGVPACSHMPMWSARLLTRAH  
VECPAHTRVHVECPAHVPMWSAHLITCADVECHLLTHVPMWSARLLTCPCGVPACSHV  
PMRSARLLTRAHAECPPAHTCPCGVPACSHVPMRSARLLTRADVECPAHTCPCGVPACS  
HVPTWSARLLITRAHVECSAHTCRCGVPACSHVPMWSVRLLTRADAECPPAHTCRCGVP  
CSHVPMSARLLTCRCGVPACSHVPMWSARLLTCRCGVPACSHVPMWSARLLTRAHVECP  
PAHTCRRGVPACSRAMECPAHTCHCGVPACSHTCRCGVPACSHVPMWSARLLTRAHVE  
CPAHTTRAHVECPAHTCPCGVPACSHTCPCGVPACSHKALAWWFCRFPVLPAESDAVT  
VHSTHGGFLIRFYVKDPFYISLHLEIT

>sp|P02489|CRYAA\_HUMAN Alpha-crystallin A chain OS=Homo sapiens GN=CRYAA PE=1 SV=2

MDVTIQHPWFKRTLGPFPYSRFLDQFFGEGLEFYDLLPFLSSTISPYRQSLFRTVLDSG  
ISEVRSRDRDKFVIFLDVKHFSPELTVKVVQDDFVEIHGKHNERQDDHGYISREFHRRYRL  
PSNVDQSALSCSLADGMLTFCGPKIQTGLDATAERAIPVSREEKPTSAPSS

>sp|Q9BVV8|CS024\_HUMAN Uncharacterized membrane protein C19orf24 OS=Homo sapiens  
GN=C19orf24 PE=1 SV=2

MGPRVLQPPLLLLLLALLAALPCGAEEASPLRPAQVTLSPPPAVTNGSQPGAPHNSTHT  
RPPGASGSALTRSFYVILGFCGLTALYFLIRAFRLKKPQRRRYGLLANTEDPTEMASLDS  
DEETVFESRNL

>sp|Q6ZS72|CS035\_HUMAN Putative uncharacterized protein C19orf35 OS=Homo sapiens  
GN=C19orf35 PE=2 SV=1

MSSPEPTEPPEPDNPTWSTQPTYSNLQIRAHLLPSKACRLRTPGSLSTNPEPLPPPLP  
KKILTRTQSLPTRRTLHPSSIQVQPPRRPFLGSHSVDKSQAAVGPAELTFGPADAP  
LGLSLRDLHSPEAVHTALAAQLQGLRTIYARLRARLMGGHPGCHPGHSFRLDSSPCA  
ESGDALYYRVRAHEDAWHILVAKVPKPGADVPHPWGLELQASLSPHFNLQGLCGLVPEG  
TLPGAPWRGAVALAAEVPERTVAQWLAEACTQPPEEFVWAVALLLQLSAALKFLEAWGA  
ALVELRPENLLLVA PRGCATTGPRLLLTDFGRVCLQPPGPPGSPGPHAPQLGSLLRALL  
SLAAPSTTPLAAGLELLAAQLTRLRPSASRTRGALQALLWGPPELGRGAPLGPWLRAL  
GPWLRVRRGLLVRLAERAAGGEAPSLEDWLCCEYLAEATESSMGQALALLWD

>sp|Q8N9M1|CS047\_HUMAN Uncharacterized protein C19orf47 OS=Homo sapiens GN=C19orf47 PE=1  
SV=1

MVMAALSLVAACWGRAAADESQQLPAAPGSSVRARETMVSVTMTATSEWIFFKEAGIPPG  
PAVNYAVMFVDNRIQKSMLLDLNKEIMNELGVTVVGDIIAILKHAKVVHRQDMCKAATES  
VPCSPSPLAGEIRRGTSASRMITNSLNHDSPPSTPPRRPDTSTSKISVTVSNKMAAKSA  
KATAALARREEESLAVPAKRRRVTAEMEGKYVINMPKGTTPRTRKILEQQQAAKGLHRTS  
VFDRLGAETKADTTTGSKPTGVFSRLGATPETDEDLAWDSNDSSSVLQYAGVLKKLGR  
GPAKASPQPALTVKAKATSSATTAAPTLLRLALSSRGLERKPESLSKVSIIKRLGAAA  
LVPEAQDSQVTSTKSSSAEVKVTIKRTLVGPRGSSSEGLGAQMDHAGTVSVFKRLGRR  
TF

>sp|Q8TBR5|CSAS1\_HUMAN Putative uncharacterized protein CIRBP-AS1 OS=Homo sapiens  
GN=CIRBP-AS1 PE=5 SV=1

MAPEVIRQDFQAGEVAFRRGTGLRGRSVLTQTKHSLAGNGRHPVALRTRLGSLALGAVPT  
WTKLWAQSTTWQTRNHTRTGHAYPRFTRPSFPSCNRNGKRRKRLRLGLPY

>sp|Q13098|CSN1\_HUMAN COP9 signalosome complex subunit 1 OS=Homo sapiens GN=GPS1 PE=1 SV=4

MPLPVQVFNLQGAVEPMQIDVDPQEDPQNAPDVNYVVENPSLDLEQYAAASYGLMRIERL  
QFIADHCPTLRVEALKMALSfvqRTFNVDMYEEIHRKLSEATRSSLRELQNAPDAIPESG  
VEPPALDTAWVEATRKKALLKLEKLDLTKNYKGNSIKESIRRGHDDLGDHYLDCGDLN  
ALKCYSRARDYCTSAKHVINMCLNVIKVSVYLQNWSHVLSYVSKAESTPEIAEQRGERDS  
QTQAILTKLKCAAGLAELAARKYKQAAKCLLLASFDHCDPELLSPSNVAIYGGLCALAT  
FDRQELQRNVISSSSFKLFLELEPQVRDIIFKFYESKYASCLKMLDEMKNLLLDMYLAP  
HVRTLTYQIRNRALIQYFSPYVSADMRMAAAFNTTVALEDELTLILEGLISARVDSH  
SKILYARDVDQRSTTFEKSLLMGKEFQRRAKAMMLRAAVLRNQIHVKSPPREGSQGELTP  
ANSQSRMSTNM

>sp|P61201|CSN2\_HUMAN COP9 signalosome complex subunit 2 OS=Homo sapiens GN=COPS2 PE=1 SV=1

MSDMEDDFMCDDEEDYDLEYSEDNSNPNVDLENQYYNSKALKEDDPKAALSSFQKVLEL  
EGEGGEWGFKALKQMIKINFKLTFPEMMNRYKQLLTYIRSAVTRNYSEKSINSILDYIS  
TSKQMDLLQEFYETTLKDAKNDRLWFKTNTKLGLYLEREEYGLKQKILRQLHQSCQ  
TDDGEDDLKKGTLLEIYALEIQMYTAQKNNKKLKALYEQSLHIKSAIPHPLIMGVIREC  
GGKMHLEGEFEKAHTDFFFAFKNYDESGSPRRTTCLKYLVLANMLKSGINPFDSQEAQ  
PYKNDPEILAMTNLVSAYQNNDITEFEKILKTNHSNIMDDPFIREHIEELLRNIRTQVLI  
KLIKPYTRIHIPFISKELNIDVADVESLLVQCILDNTIHGRIDQVNQLELDHQKRGGAR  
YTALDKWTNQLNSLNQAVVSKLA

>sp|Q9BT78|CSN4\_HUMAN COP9 signalosome complex subunit 4 OS=Homo sapiens GN=COPS4 PE=1 SV=1

MAAAVRQDLAQLMNSSGSHKDLAGKYRQILEKAIQLSGAEQLEALKAFVEAMVNENVSLV  
ISRQLLTDFCTHLPNLPDSTAKEIYHFTLEKIQPRVISFEEQVASIRQHLASIYEKEEDW  
RNAAQVLVGIPTLGQKQYNVDYKLETYKLIARLYLEDDDPVQAEAYINRASLLQNESTN  
EQLQIHYKVCYARVLDYRRKFIEAAQRYNELSYKTIHVHESERLEALKHALHCTILASAGQ  
QRSRMLATLFDKERCQQLAAYGILEKMYLDRIIRGNQLQEFAAMLMPHQKATTADGSSIL  
DRAVIEHNLLSASKLYNNITFEELGALLEIPAAKAEKIASQMITEGRMNGFIDQIDGIVH  
FETREALPTWDKQIQSLCFQVNNLLEKISQTAPEWTAQAMEAQMAQ

>sp|043405|COCH\_HUMAN Cochlin OS=Homo sapiens GN=COCH PE=1 SV=1

MSAAWIPALGLGVCLLLPGPAGSEGAAPIAITCFTRGLDIRKEADVLCPPGCCPLEEFS  
VYGNIVYASVSSICGAAVHRGVISNSGGPVRVYSLPGRENYSSVDANGIQSQMLSRWSAS  
FTVTGKSSTQEATGQAVSTAHPPTGKRLKKTPKKTGNKDCKADIAFLIDGSFNIGQRR  
FNLQKNFVGKVALMLGIGTEGPHVGLVQASEHPKIEFYLNFTSAKDVLFATKEVGFRGG  
NSNTGKALKHTAQKFFTVDAGVRKGIPKVVVVFIDGWPSDDIEEAGIVAREFGVNVFIVS  
VAKPIPEELGMVQDVTVDKAVCRNNGFFSYHMPNWFGTTKYVKPLVQKLCHEQMMCSK  
TCYNSVNIAFLIDGSSSVGDSNFRMLLEFVSNIAKTFEISDIGAKIAAVQFTYDQRTEFS  
FTDYSTKENVLAVIRNIRYMSGGTATGDAISFTVRNVFGPIRESPKNFLVIVTDGQSYD  
DVQGPAAAAHDAGITIFSVGVAWAPLDDLKDMASKPKESHAFFTREFTGLEPIVSDVIRG  
ICRDFLESQQ

>sp|Q96JB2|COG3\_HUMAN Conserved oligomeric Golgi complex subunit 3 OS=Homo sapiens GN=COG3 PE=1 SV=3

MAEAALLLLPEAAAERDAREKLALWDRRPDTTAPLTDRQTDSVLELKAAAENLPVPAELP

IEDLCSLTSQSLPIELTSVVPESTEDILLKGFTSLGMEEERIETAQQFFSWFAKLQTQMD  
QDEGTKYRQMRDYLSGFQEQCDAILNDVNSALQHLESLQKQYLFVSNKTGTLHEACEQLL  
KEQSELVDLAENIQKLSYFNELETINTKLNSPTLSVNSDGFIPMLAKLDDCITYISSHP  
NFKDYPIYLLKFKQCLSKALHLMKTYTVNTLQTLTSQLLKRDPSVNPADNAFTLFYVKF  
RAAAPKVRTLIEQIELRSEKIPEYQQLNDIHQCYLDQRELLLGPSIACTVAELTSQNNR  
DHCALVRSGCAFMVHVCQDEHQLYNEFFTCKPTSCLDELLEKLCVSLYDVFRPLIIHVIHL  
ETLSELGILKNEVELEDHVQNNAEQLGAFAAGVKQMLEDVQERLVYRTHIYIQTIDITGYK  
PAPGDLAYPDKLVMMEQIAQSLKDEQKKVPSEASFSDVHLEEGESNSLTKSGSTESLNPR  
PQTTISPADLHGMWYPTVRRTLVLCLSKLYRCIDRAVFQGLSQEALSACIQSLLGASESIS  
KNKTQIDGQLFLIKHLLILREQIAPFHTEFTIKEISLDLKKTRDAAFKILNPMTPVPRFFR  
LNSNNALIEFLLEGTPETREHYLDSKKDVRHLKSACEQFIQQQTKLFVEQLEEFMTKVS  
ALKTMASQGGPKYTLSSQPWAQPAKVNDLAATAYKTIKTKLPVTLRMSLYLSNKDTEFI  
LFKPVRNNIQQVFQKFHALLKEEFSPEDIQIIACPSMEQSLLLLLVSK

>sp|Q9UP83|COG5\_HUMAN Conserved oligomeric Golgi complex subunit 5 OS=Homo sapiens GN=COG5  
PE=1 SV=3

MGWVGRRRDSASPPGRSRSAADDINPAPANMEGGGGSVAVAGLGARGSGAAAAATVRELL  
QDGCYSDFLNEDFDVKTYTSQSIHQAVIAEQLAKLAQGISQLDRELHLQVVARHEDLLAQ  
ATGIESLEGVLQMMQTRIGALQGAVDRIKAKIVEPYNKIVARTAQLARLQVACDLLRRI  
RILNLSKRLQGQLQGSREITKAAQSLNELDYLSSQIDLSGIEVIENDLLFIARARLEVE  
NQAKRLEQGLQETQNPQTQVGTALQVFYNLGLKDTITSVVDGYCATLEENINSALDIKVL  
TQPSQSAVRGGPGRSTMPGNTAALRASFTNMEKLMHDIYAVCGQVQHLQKVLAKKRD  
PVSHICFIEEIVKDGQPEIFYTFWNSVTQALSSQFHMATNSSMFLKQAFEGEYPKLLRLY  
NDLWKRLQQYSQHIQGNFNASGTTDLVVDLQHMEDDAQDIFIPKKPDYDPEKALKDSLQP  
YEAAYLSKSLSRFLDPINLVFPPGGRNPPSSDEL DGI IKTIASELNVAAVDTNLTAVSK  
NVAKTIQLYSVKSEQLLSTQGDASQVIGPLTEGQRRNVAVVNSLYKLHQSVTKAIIHALME  
NAVQPLLTSGDAIEAIIITMHQEDFSGSLSSSGKPDVPCSLYMKELQGFARVMSDYFK  
HFECLDFVFDNTEAIAQRAVELFIRHASLIRPLGEGGKMRLAADFAQMELAVGPFCCRVS  
DLGKSYRMLRSFRPLLFQASEHVASSPALGDVIPFSIIIQFLFTRAPAEKSPFQRAEWS  
HTRFSQWLDDHPSEKDRLLLIRGALEYVQSVRSREGKEFAPVYPIMVQLLQKAMSALQ

>sp|Q07092|COGA1\_HUMAN Collagen alpha-1(XVI) chain OS=Homo sapiens GN=COL16A1 PE=1 SV=2

MWVSWAPGLWLLGLWATFGHGANTGAQCPSQEQGLEHSSSLPANVTGFNLIHRLSLM  
KTSIAKKIRNPKGPLILRLGAAPVTQPTRRVFPRGLPEEFALVLTLLKKHTHQKTWYLF  
QVTDANGYPQISLEVNSQERSLELRAQQDQDFVSCIFPVPQLFDLRWHKLMLSVAGRVA  
SVHVCSSASSQPLGPRRPMRPVGHVFLGLDAEQGKPVSFDLQQVHIYCDPELVLEEGCC  
EILPAGCPPETSKARRDTQSNELIEINPQSEGKVVYTRCFCLEEPQNSEVDAQLTGRISQK  
AERGAHVHETAADECPPCVHGARDSNVTLAPSGPKGGKGERGLPGPPGSKGEKGARGND  
CVRISPDAPLQCAEGPKGEKGESGALGPSGLPGSTGEKGQKGEKGDGGIKGVPGKPRDG  
RPGEICVIGPKGQKGDGPGFVGPEGLAGEPGPPGLPGPGIGLPGTPGDPGPGPPGPKGDKG  
SSGIPGKEGPGGKPGKPGVKGEKGDPCVCPTLPEGFQNFVGLPGKPGPKGEPGDPVPAR  
GDGPIQGIGKEGEPCLSCSSVGAQHLVSSTGASGDVGSFGFLPGLPGRAGVPGLKGE  
KGNFGEAGPAGSPGPPGVPAGIKGAKGEPCEPCALSNLQDGDVRVVALPGPSGEKGE  
PGPPGFGLPGKQKGKAGERGLKGQKGDAGNPGDPGTPGTTGRPGLSGEPGVQGPAGPKGEK  
GDGCTACPSLQGTVTDMAGRPGQPGPKGEQGPVGRPGKPGQPLPGVQGPGLKGVQG  
EPGPPGRGVQGPQGEFGAPGLPGIQGLPGRGPPGPTGEKGAQSGPGVKGATGPVGPPGA

SVSGPPGRDGGQQGTGLRGTPGEKGPRGEKGEPGECSCPSQGDILFSGMPGAPGLWMGSS  
WQPGPQGPPGIPGPPGPPGVPGLQGVPGNGLPGQPGLTAEGLSLPIEQHLLKSICGDCV  
QQQRAHPGYLVEKGEKGDQGIPIGPVGLDNCAQCFLSLERPRAEEARGDNSEGDPGCVGSP  
GLPGPPGLPGQRGEEGPPGMRGSPGPPGPIGPPGPGAVGSPGLPGLQGERGLTGLTGDK  
GEPGPPGPGYPGATGPPGLPGIKGERGYTGSAGEKGEPGPPGSEGLPGPPGPAGPRGER  
GPQNSGEKGDQGFQGPFGPPGPPGPGFKVGSPPGPPQAEKGSEGIRGPSGLPGSP  
GPPGPPGIQGPAGLDGLDGKDGKPLRGDPGAPPPGLMPPGFKGKTGHPGLPGPKGDC  
GKPGPPGSTGRPGAEGEPGAMGPQGRPGPPGHVGP GPPGPGPAGISAVGLKGD RGATG  
ERGLAGLPGQGP GPPGHPGPPGEPGTDGAAGKEGPPGKQGFYGP GPKGDPGAAGQKQAG  
EKGRAGMPGGPGKSGSMGPVGP GPPGAGERGHPGAPGPSGSPGLPGVPGSMGDMVNYDEIK  
RFIRQEIIKMFDERMAYYTSRMQFPMEMAAAPGRPGPPGKD GAGRPGAPGSPGLPGQIG  
REGRQGLPGVRGLPGTKGEKGDIGIGIAGENGLPGPPGPGPPGYGKMATGPMGQQGIP  
GIPGPPGPMGQPGKAGHCNP SDCFGAMPMEQQYPPMKT MKGPFG

>sp|P39060|COIA1\_HUMAN Collagen alpha-1(XVIII) chain OS=Homo sapiens GN=COL18A1 PE=1 SV=5

MAPYPCGCHILLFLCCLAAARANLLNLNWLWFNNEDTSHAATTIPEPQGPLPVQPTADT  
TTHVTPRNGSTEPATAPGSPEPPSELLEDGQDTPTSAESPDAP EENIAGVGAEILNVAKG  
IRSFVQLWNDTVPTESLARAETLVLETPVGPLALAGPSSTPQENGTTLWPSRGIPSSPGA  
HTTEAGTLPAPTSPPSLGRPWAPLTGPSVPPSSGRASLSSLLGGAPPWGS LQDPDSQG  
LSPAAAAPSQQLRPDVRLRTPLLHPLVMGSLGKHAAPSAFSSGLPGALSQVAVTTLTRD  
SGAWVSHVANSVGPLANNSALLGADPEAPAGRCLPLP SLPVCGHLGISRFWLPNHLHH  
ESGEQVRAGARAWGGLLQTHCHPFLAWFFCLLLVPPCGSVPPPAPPPCCQFCEALQDACW  
SRLGGRLPVACASLPTQEDGYCVLIGPAAERISEEVGLLQLLGDPPPQVQTQTD DDPVG  
LAYVFGPDANSGQVARYHFPSLFFRDFSLLFHIRPATEGPGVLF AITDSAQAMVLLGVKL  
SGVQDGHQDISLLYTEPGAGQTHTAASFRLPAFVGQWTHLALSVAGGFVALYVDCEE FQR  
MPLARSSRGLELEPGAGLFVAQAGGADPKFQGVIAELKVR RDPQVSPMHCLDEEGDDSD  
GASGDSGSGLDARELLREETGAALKPRLPAPPPVTT PPLAGSSTEDSRSEEVEEQTTV  
ASLGAQTLPGSDSVSTWDG SVRTPGGRVKEGGLKGQKGEPGVPGPPGRAGPPGSPCLPGP  
PGLPCPV SPLGPAGPALQTVPGPQGPPGPPGRDGT PGRDGE PGDPGEDGKPGDTGPQGFP  
GTPGDVGPKGDKDPGVGERGPPGPGPPGPPGPSFRHDKLTFIDMEGSGFGGDLEALRG  
PRGFGPPGPPGVPGLPGEPEGFRGVNSSDVPGAGLPGVPGREGPPGFPGLPGPPGPPGR  
EGPPGRTGQKGS LG EAGAPGHKSGKAPGPAGARGESGLAGAPGPAGPPGPPGPPGPPG  
GLPAGFDDMEGSGGPFWSTARSADGPQGPPGLPGLKDPGV PGLPGAKEVGADGVPGFP  
GLPGREGIAGPQGP KDRGSRGEKDPGKDGVGQPGLPGPPGPPGPVVYVSEQDGSVLSV  
PGPEGRPGFAGFPGAPGKGNL GSKGERGSPGPKGEKGEPGSIFSPDGGALGPAQKGAKG  
EPGFRGPPGPYGRPGYKGEIGFPGRPGRPGMNLKGEKGEPGDASLGF GMRGMPGPPGPP  
GPPGPPGTPVYDSNVFAESSRPGPPGLPGNQPPGPKGAKGEVGPPGPPGQFPFD FLQLE  
AEMKGEKGD RDGAGQKGERGEPGGGGFFGSSLP GPPGPPGPPGPRGYPGIPGPKGESIRG  
QPGPPGPGPPGIGYEGRQGPPGPPGPPGPPSFP GPHRQTISVPGPPGPPGPPGPPGTMG  
ASSGVRLWATRQAMLGQVHEVPEGWLIFVAEQEELYVRVQNGFRKVQLEARTPLPRGTDN  
EVAALQPPVVQLHDSNPYPRREHPHTARPWRADDILASPPRLPEPQPYPGAPHHSSYVH  
LRPARPTSPPAHSHRDFQPV LHLVALNSPLSGMGRGIRGADFQCFQQA RAVGLAGTFRAF  
LSSRLQDLYSIVRRADRAAVPIVNLKDELLFPSWEALFSGSEGPLKPGARIFSFDGKDVL  
RHPTWPQKSVWHGSDPNGRRLTESYCETWRTEAP SATGQASSLLGGRLLGQSAASCHHAY  
IVLCIENSFMTASK

>sp|P38432|COIL\_HUMAN Coilin OS=Homo sapiens GN=COIL PE=1 SV=1  
MAASETVRLRLQFDYPPPATPHCTAFWLLVDLNRRCRVVTDLISLIRQRFGFSSGAFLGLY  
LEGLLPAAESARLVRDNDCLRVKLEERGVAENSVVISNGDINLSLRKAKKRAFQLEEGE  
ETEPDCKYSKKHWSRENNNNNEKVL DLEPKAVTDQTVSKKNRKNKATCGTVGDDNEEA  
KRKSPKKKEKCEYKKKAKNPSPKVQAVKDWANQRCSSPKGSARNSLVKAKRKGSVSVCS  
KESPPSSSESESCDESISDGPSKVTLEARNSSSEKLPTELSKEEPSTKNNTADKLAIKLGF  
SLTPSKGKTSGTTSSSSDSSAESDDQCLMSSSTPECAAGFLKTVGLFAGRGRPGPGLSSQ  
TAGAAGWRRSGSNGGGQAPGASPSVSLPASLGRGWGREENLFSWKGAKGRGMGRGRGRG  
HPVSCVVRNSTDNQRQQQLNDVVKNSSTIIQNPVETPKKDYSLLPLAAAPQVGEKIAFK  
LLELTSSYSPDVSDYKEGRILSHNPETQQVDIEILSSLPALREPGKFDLVYHNENGAEEV  
EYAVTQESKITVFWKELIDPRLIIESPSNTSSTEPA

>sp|Q9Y6Z7|COL10\_HUMAN Collectin-10 OS=Homo sapiens GN=COLEC10 PE=2 SV=2  
MNGFASLLRRNQFILLVLFLLQIQSLGLDIDSRPTAEVCATHTISP GPKGDDGEKGD PGE  
EGKHGKVGRMGPKGIK GELGDMGDQGNIGKTGPIGKKGDKEKGLLIPGEKGKAGTVCD  
CGRYRK FVGQLDISIARLKTSMKFVKNIAGIRETEEFYIYVQEEKNYRESLTHCRIRG  
GMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLEREGQYMTDNTPLQNYSNWNEGEPS  
DPYGHEDCV EMLSSGRWNDECHLTMYFVCEFIKKK

>sp|Q9Y3A0|COQ4\_HUMAN Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial OS=Homo sapiens GN=COQ4 PE=1 SV=3  
MATLLRPVLRRLCGLPGLQRPAAEMLRARS DGAGPLYSHHLPTSPLQKGLLAAGSAAMA  
LYNPYRHDMAVLGETTGHR TLKVL RDQMRRDPEGAQILQERPRISTSTLDLGLQSLPE  
GSLGREYLRFLDVNRVSPDTRAPTRFVDDEELAYVIQRYREVHMLHTLLGMPTNILGEI  
VVKWFEAVQTGLPMCILGAFFGPIRLGAQSLQVLVSELIPWAVQNGRRAPCVLNLYERR  
WEQSLRALREELGITAPPMHVQGLA

>sp|P31146|COR1A\_HUMAN Coronin-1A OS=Homo sapiens GN=CORO1A PE=1 SV=4  
MSRQVVRSSKFRHVFQPAKADQCYEDVRVSQT TWDSGFC AVNPKFVALICEASGGGAFL  
VLPLGKTGRVDKNAPTVCGHTAPVLDIAWCPHNDNVIASGSEDCTVMVWEIPDGGLMLPL  
REPVTLEGHTKRVGIVAWHTTAQNVLLSAGCDNIMVWDVGTGAAMLTLGPEVHPDTIY  
SVDWSRDGGLICTSCRDKRVRIIEPRKGTVAEKDRPHEGTRPVRAV FVSE GKILTTGFS  
RMSERQVALWDTKHLEEPLSLQELDTSSGVLLPFFDPDTNIVYLCGKGDS S IRYFEITSE  
APFLHYLSMFSSKESQRGMGYMPKRGLEVNKCEIARFYKLHERRCEPIAMTVPRKSDLFQ  
EDLYPTTAGPD PALTAEEWLGGRDAGPL LISLKDGYVPPKSREL RVNRGLDTGRRRAAPE  
ASGTPSSDAVSRLEEEMRKLQATVQELQKR LDRLEETVQAK

>sp|Q14019|COTL1\_HUMAN Coactosin-like protein OS=Homo sapiens GN=COTL1 PE=1 SV=3  
MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGA EYQHFIQQCTDDVRLFA  
FVRFTTGDA MSKRKFALITWIGENV SGLQRAKTGTDKTLVKEVVQNFAKEFVISDRKEL  
EEDFIKSELKKAGGANYDAQTE

>sp|Q9Y6N1|COX11\_HUMAN Cytochrome c oxidase assembly protein COX11, mitochondrial OS=Homo sapiens GN=COX11 PE=1 SV=3  
MGGLWRPGWRCVPFCGWRWIHPGSPTRAAERVEPFLRPEWSGTGGAERGLRWLGTWK RCS  
LRARHPALQPPRRPKSSNPFTRAQEEERRRQNKTTLTYYAAVAVGMLGASYAAVPLYRLY  
CQTTGLGGS AVAGHASDKIENMPVKDRII KISFNADVHASLQWNFRPQQTEIYVVPGET  
ALAFYRAKNPTDKP VIGISTYNIVPFEAGQYFNKIQCFCFEEQRLNPQEEVDMPVFFYID  
PEFAEDPRMIKVDLITLSYTFEAKEGHKLPVPGYN

>sp|Q96I36|COX14\_HUMAN Cytochrome c oxidase assembly protein COX14 OS=Homo sapiens  
GN=COX14 PE=1 SV=1

MPTGKQLADIGYKTFSTSMMLLTVYGGYLCVSVVYHYFQWRRARQAEEQKTSGIM

>sp|P15954|COX7C\_HUMAN Cytochrome c oxidase subunit 7C, mitochondrial OS=Homo sapiens  
GN=COX7C PE=1 SV=1

MLGQSIRRFSTSVRRSHYEEGPGKNLPFSVENKWSLLAKMCLYFGSAFATPFLVVRHQL  
LKT

>sp|P05093|CP17A\_HUMAN Steroid 17-alpha-hydroxylase/17,20 lyase OS=Homo sapiens  
GN=CYP17A1 PE=1 SV=1

MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSLPFLPRHGHMHNNFFKLQKKY  
GPIYSVRMGTKTTIVGHHQLAKEVLIKKGKDFSGRPQMATLDIASNNRKGIAFADSGAH  
WQLHRRLAMATFALFKDGDQKLEKIIICQEISTLCDMLATHNGQSIDISFPVFVAVTNVIS  
LICFNTSYKNGDPELNVIQYNEGIIDNLSKDSLVDLVPWLKIFPNKTLEKLKSHVKIRN  
DLLNKILENYKEKFRSDSITNMLDTLMQAKMNSDNGNAGPDQDSELLSDNHILTTIGDIF  
GAGVETTSVVKWTLAFLHNPQVKKLYEEDQNVGFSRTPTISDRNRLLLEATIREV  
LRLRPVAPMLIPHKANVDSSIGFAVDKGTEVIINLWALHHNEKEWHQPDQFMPERFLNP  
AGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDLEVPDDGQLPSLEGIP  
KVVFLIDSFKVKIKVRQAWREAQAEGST

>sp|P10635|CP2D6\_HUMAN Cytochrome P450 2D6 OS=Homo sapiens GN=CYP2D6 PE=1 SV=2

MGLEALVPLAVIVAIFLLLVDLMHRRQRWAARYPPGPLPLPGLGNLLHVDFQNTPYCFDQ  
LRRRFQDVFSQLAWTPVVVLNGLAAVREALVTHGEDTADRPPVPITQILGFGPRSQGVF  
LARYGPAWREQRRFSVSTLRNLGLGKKSLEQWVTEEAACLCAAFANHSGRPFRPNGLLDK  
AVSNVIASLTCGRRFEYDDPRFLRLDLAQEGLKEESGFLREVLNAVVPVLLHIPALAGKV  
LRFQKAFLTQLDELLTEHRMTWPAQPPRDLTEAFLAEMEKAKGNPESSFNDENLRIVVA  
DLFSAGMVTSTTTLAWGLLLMILHPDVQRRVQQEIDDVIGQVRRPEMGDQAHMPYTTAVI  
HEVQRFGDIVPLGVTHMTSRDIEVQGFRIKGTTLITNLSSVLKDEAVWEKPFRLFPEHF  
LDAQGHFVKPEAFLPFSAGRRACLGEPLARMELFLFFTSLLQHFSFSVPTGQPRPSHHGV  
FAFLVSPSPYELCAVPR

>sp|P78329|CP4F2\_HUMAN Phylloquinone omega-hydroxylase CYP4F2 OS=Homo sapiens GN=CYP4F2  
PE=1 SV=1

MSQLSLSWLGLWPVAASPWLLLLLVGASWLLAHVLAWTYAFYDNCRRRLRCFPQPPRRNWF  
WGHQGMVNPTEEGMRVLTQLVATYPQGFKVWMGPISPLLSLCHPDIIRSVINASAATAPK  
DKFFYSFLEPWLGDGLLSAGDKWSRHRRLTPAFHFNILKPYMKIFNESVNIMHAKWQL  
LASEGSACLDMEFHSIMTLDSLQKCVFSFSDSHCQEKPEYIAAILELSALVSKRHHEIL  
LHIDFLYYLTPDGQRFRRACRLVHDFDVAIQERRRTLPSQGVDDFLQAKAKSKTLDIFD  
VLLSKDEDGKKLSDEDIRAEADTFMFEGHDTASGLSWVLYHLAKHPEYQERCQEVQE  
LLKDREPKEIEWDDLALHPFLTMCMKESLRLHPPVPVISRHVTQDIVLPDGRVIPKGIIC  
LISVFGTHHNPAVWPDEVYDPPFRFDPENIKERSPLAFIPFSAGPRNCIGQTFAMAEMKV  
VLALTLLRFRVLPDHTEPRRKPELVLRAGGLWLRVEPLS

>sp|Q8N1L4|CP4Z2\_HUMAN Putative inactive cytochrome P450 family member 4Z2 OS=Homo sapiens  
GN=CYP4Z2P PE=5 SV=2

MEPSWLQELMAHPFLLLILLCMSLLLQVIRLYQRRRWITIRAMHLFPAPPAHWFYGHKES  
YPVKEFEVYPELMEKYPCAVPLWVGPFMTFNIHDPDYVKILLKRQDPKSAVSHKILES  
VGRGLVTLDGSKWKHRQIVKPGFNISILKIFITMMSKSVRMMLNKWEEHIAQNSRLELF



QHVSLMTLDSIMKCAFSHQGSIQLDSTLDSYLKAVFNLSKISNQRMNNFLHHNDLVFKFS  
SQGQIFSKFNQELHQFTEKVIQDRKESLKDCLKQDTTQKRRQDFLDILLSAKSENTKDFS  
EADLQAEVKTFMFAGHDTTTTAAISWIFYCLAKYPEHQQR

>sp|Q16850|CP51A\_HUMAN Lanosterol 14-alpha demethylase OS=Homo sapiens GN=CYP51A1 PE=1  
SV=3

MLLLGLLQAGGSVLQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKS  
PPYIFSPIPLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFTYLLGSDAAALLFNS  
KNEDLNAEDVYSRLTTPVFGKGVAYDVPNPVFLEQKKMLKSGLNIAHFKQHVSIIEKETK  
EYFESWGESGEKNVFEALSELIILTASHCLHGKEIRSQLEKVAQLYADLDGGFSHAAWL  
LPGWLPSPFRRRDRAHREIKDIFYKAIQKRRQSQEKIDDLQTLDDATYKDGRLTDDE  
VAGMLIGLLLQAGHSTSTSAWMGFLLARDKTLQKKCYLEQKTVCGENLPPLTYDQLKDL  
NLLDRCIKETLRLRPPIMIMMRMARTPQTVAGYTIPPGHQVCVSPTVNQRLKDSWVERLD  
FNPDRYLQDNPASGEKFAYVPFGAGRHRICIGENFAYVQIKTIWSTMLRLYEFDLIDGYFP  
TVNYTTMIHTPENPVIRYKRRSK

>sp|P22680|CP7A1\_HUMAN Cholesterol 7-alpha-monooxygenase OS=Homo sapiens GN=CYP7A1 PE=1  
SV=2

MMTSLIWIWIAIAACCCWLILGIRRRQTGEPPLENGLIPYLGALQFGANPLEFLRANQ  
RKHGHVFTCKLMGKYVHFITNPLSYHKVLCCHKYFDWKKFHFATSAKAFGHRSIDPMDGN  
TTENINDTFIKTLQGHALNSLTESMMENLQRIMRPPVSSNSKTAAWVTEGMYSFCYRVMF  
EAGYLTIIFGRDLTRRDTQKAHILNNDNFQKQFDKVFALVAGLPIMFRTAHNAREKLAE  
SLRHENLQKRESISELISLRMFLNDLTSTFDDLEKAKTHLVVLWASQANTIPATFWSLFQ  
MIRNPEAMKAATEEVKRTLENAGQKVSLEGNPICLSQAELENDLPVLDSIIKESLRLSSAS  
LNIRTAKEDEFTLHLEDGSGYNIRKDDIIALYPQLMHLDPETIYPDPLTFKYDRYLDENGKTK  
TTFYCNGCLKKYYPFPGSGATICPGRFAIHEIKQFLILMLSYFELELIEGQAKCPPLD  
QSRAGLGILPPLNDIEFKYKFKHL

>sp|Q6FI81|CPIN1\_HUMAN Anamorsin OS=Homo sapiens GN=CIAPIN1 PE=1 SV=2

MADFGISAGQFVAVVWDKSSPVEALKGLVDKLQALTGNEGRVSVENIKQLLSAHKESSF  
DIILSGLVPGSTTLHSAEILAEIARILRPGGCLFLKEPVETAVDNNKSVKTASKLCSALT  
LSGLVEVKELQREPLTPEEVQSVREHLGHESDNLFLVQITGKKPNFEVGSSRQLKLSITK  
KSSPSVKPAVDPAAAKLWTLSSANDMEDDSMDLIDSDELDPEDLKKPDPAASRAASCGEG  
KKRKACKNCTCGLAELEKEKSREQMSSQPKSACGNCYLGAFCASCAPYLGMFAFKPGE  
KVLLSDSNLHDA

>sp|Q7Z7G2|CPLX4\_HUMAN Complexin-4 OS=Homo sapiens GN=CPLX4 PE=2 SV=1

MAFLMKSMISNQVKNLGFGGGSEENKEEGGASDPAAAQGMTRREEYEEYQKQMIEEKMERD  
AAFTQKKAERACLRVHLREKYRLPKSEMDENQIQMAGDDVDLPEDLRKMVEDEQEEEDK  
DSILGQIQNLQNMDLDTIKEKAQATFTEIKQTAEQKCSVM

>sp|Q8IYJ1|CPNE9\_HUMAN Copine-9 OS=Homo sapiens GN=CPNE9 PE=1 SV=3

MSLGASERSVPATKIEITVSCRNLDDLDTFSKSDPMVVLYTQSRASQEWREFGRTEVID  
NTLNPDFVRKFVLDYFFEEKQNLRFDVYNVDSKTNISKPKDFLGQAFLALGEVIGGQGSR  
VERTLTGVPGKCGTILLTAEELSNCRDIAQMQLCANKLDKKDFFGKSDPFLVFYRSNED  
GTFTICHKTEVVKNLTNPVWQPFIPVRALCNGDYDRTVKIDVYDWRDGSDFIGFTT  
SYRELSKAQNQFTVYEVNLNPRKKCKKKKYVNSGTVTLLSFSVDSEFTFVDYIKGGTQLNF  
TVAIDFTASNGNPLQPTSLHYMSPYQLSAYAMALKAVGEIIQDYDSDKLFPAYGFGAKLP  
PEGRISHQFPLNNNDEDPNCAGIEGVLESYFQSLRTVQLYGPTYFAPVINQVARAAAKIS

DGSQYYVLLIITDGVISDMTQTKEAIVSASSLPMSIIIVGVGPAMFEAMEELDGDDVRVS  
SRGRYAERDQVFPFRDYVDRSGNQVLSMARLAKDVLAEIPEQLLSYMRTRDIQPRPPP  
PANPSPIPAPEQP

>sp|Q9H3G5|CPVL\_HUMAN Probable serine carboxypeptidase CPVL OS=Homo sapiens GN=CPVL PE=1  
SV=2

MVGAMWKVIVSLVLLMPGPCDGLFRSLYRSVSMPPKGDGQPLFLTPYIEAGKIQKGREL  
SLVGPPFGLNMKSYAGFLTVNKTYNSNLFFWFFPAQIQPEDAPVVWLQGGPGGSSMFGL  
FVEHGPVYVTSNMTLRDRDFPWTTLTMLYIDNPVGTGFSFTDDTHGYAVNEDDVARDLY  
SALIQFFQIFPEYKNDFYVTGESYAGKYVPAIAHLIHSLNPVREVKINLNGIAIGDGYS  
DPESIIGGYAEFLYQIGLLDEKQKKYFQKQCHECIEHIRKQNWFEAFEILDKLLDGLTS  
DPSYFQNVGTCSNYNFLRCTEPEDQLYYVKFSLPEVRQAIHVGNQTFNDGTIVEKYLR  
EDTVQSVKPWLTEIMNNYKVLIIYNGQLDIIVAAALTERSLMGMDWKGSGEYKKAEEKVWK  
IFKSDSEVAGYIRQAGDFHQUIIRGGGHILPYDQPLRAFDMINRFIYGKGDWPYVG

>sp|Q9BQA9|CQ062\_HUMAN Uncharacterized protein C17orf62 OS=Homo sapiens GN=C17orf62 PE=1  
SV=1

MYLQVETRSTSSRLHLKRAPGIRSWSLLVGILSIGLAAAYSGDSLWKLIFYVTGCLFVAV  
QNLEDWEEAIFDKSTGKVVLKTFSLYKLLTLFRAGHDQVVLLHDVRDVSVEEEKVRYF  
GKGVMVLRLATGFSHPLTQSAVMGHRSDVEATAKLITSFLELHCLESPTELSQQSSDSEA  
GDPASQS

>sp|Q8TCD1|CRO32\_HUMAN UPF0729 protein C18orf32 OS=Homo sapiens GN=C18orf32 PE=3 SV=1  
MVCIPCIVIPVLLWIYKKFLEPYIYPLVSPFVSRIWPKKAIQESNDTNKGKVNFKGADMN  
GLPTKGPTEICDKKKD

>sp|Q6ZTR6|CRO65\_HUMAN Putative uncharacterized protein C18orf65 OS=Homo sapiens  
GN=C18orf65 PE=2 SV=1

MRVPPAGTWALRPIWTEMGTPLRGSQAPGRIVLLLLVITPQWRWIPSKTPNVAPRSNQRC  
NPGGYLSGGVSLCASHSQPAALPNLGRLLQKLLQTRCKGRRMCPKAGDQTGGAFMCDVS  
GGGECVSGSGGGGESGRKTGTTSAMKDPRVLKCKLRVTNDLH

>sp|Q2VPA4|CR1L\_HUMAN Complement component receptor 1-like protein OS=Homo sapiens  
GN=CR1L PE=1 SV=3

MAPPVRLERPFSRRFPGLLLAALVLLSSFSQCNVPEWLPFARPTNLDDFEFPIGTY  
LNYECPGYSGRPFSSIICLNKSNVWTSAKDKCKRKSCRNPDPVNGMAHVIKDIQFRSRIK  
YSCPKGYRLIGSSSATCIISGNTVIWDNKTVPDCRIICGLPPTIANGDFTSISREYFHYG  
SVVTYHCNLGSRGKKVFELVGEPYIYCTSKDDQVGIWSPAPQCIIPNKCTPPNVENGIL  
VSDNRSLSLNEVVEFRCPGFGMKGPSHVQCQALNKWEPELPSCSRVCQPPPDVLHAER  
TQRDKDNFSPGQEVFYSCPEGYDLRGSTYLHCTPQGDWSPAAPRCEVKSCDDFLGQLPNG  
HVLFPNLQLGAKVDFVCEGFLKGSSASYCVLAGMESLWNSSVPVCERKSCETPPVPV  
NGMVHVITDIHVGSRINYSCTTGHRLLIGHSSAECILSGNTAHWSMKPPICQQIFCPNPPA  
ILNGRHTGTPLGDIPYGKEVSYTCDPHPDRGMTFNLIGESTIRRTSEPHGNGVWSSPAPR  
CELPVGAGSHDALIVGKFYEVFAEEFCHL

>sp|P20023|CR2\_HUMAN Complement receptor type 2 OS=Homo sapiens GN=CR2 PE=1 SV=2

MGAAGLLGVFLALVAPGVLGISCSPPPILNGRISYYSTPIAVGTVIRYSCSGTFRLIGE  
KSLLCITKDKVDGTWDKPAPKCEYFNKYSSCPEIIVPGGYKIRGSTPYRHGDSVTFACKT  
NFSMNGNKSVMWCQANNMWGPTRLPTCVSVFPLECPALPMIHNGHHTSENVGSIAPGLSVT  
YSCESGYLLVGEKIIINCLSSGKWSAVPPTCEEARCKSLGRFPNGKVKEPPILRVGVTANF

FCDEGYRLQGPPSSRCVIAQGQVAWTKMPVCEEIFCPSPPPILNGRHIGNSLANVSYGSI  
VTTYCDPDPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCELSTSAVQC PHPQILRGR  
MVSGQKDRYTYNDTVIFACMFGFTLKGSQKIRCNAQGTWEPSAPVCEKECQAPPNINLNGQ  
KEDRHMVRFDPGTSIKYSCNPGYVLVGEESIQTSEGVWTPPVQCKVAACEATGRQLLT  
KPQHGFVRPDVNSSCGEGYKLSGSVYQECQGTIPWFMEIRLCKEITCPPPPVIYNGAHTG  
SSLEDFPYGTTVTTYCNPGPERGVEFSLIGESTIRCTSNDQERGTWSGPAPLCKLSLLAV  
QCSHVHIANGYKISGKEAPYFYNDTVTFKCYSGFTLKGSSQIRCKADNTWDPEIPVCEKE  
TCQHVRQSLQELPAGSRVELVNTSCQDGYQLTG HAYQMCQDAENGIWFKKIPLCKVIHCH  
PPPVIYNGKHTGMMANFLYIGNEVSYECDQGFYLLGEKKLQCRSDSKGHGSGWSPSPQCL  
RSPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYVDCNPGFIMNGSRVIRCHTDNTWVPGV  
PTCIKKAFIGCPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLCTHEGTW  
SQPAPHCKEVNCS PADMDGIQKGLEPRKMYQYGAVVTLECEDGYMLEGSPQSQCSQSDHQ  
WNPPLAVCRSRSLAPVLCGIAAGLILLTFLIVITLYVISKHRARNYYTDSQKEAFHLEA  
REVYSVDPYNPAS

>sp|Q96BA8|CR3L1\_HUMAN Cyclic AMP-responsive element-binding protein 3-like protein 1  
OS=Homo sapiens GN=CREB3L1 PE=1 SV=1

MDAVLEPFPADRLFPGSSFLDLGDLNESDFLNNAHFPEHLDHFTENMEDFSNDLFSSFFD  
DPVLDEKSPLLDME LDSPTPGIQAESYSLSGDSAPQSPLVPIKMEDTTQDAEHGAWALG  
HKLCSIMVKQE QSPPELPVDPLAAPSAAAAAAMATTPLLGLSPLSRLPIPHQAPGEMTQL  
PVIKAEPLVNFQFLKVTPELDVQMPPTPPSSHGSDSDGSQSPRSLPPSSPVRPMARSSTA  
ISTSPLLTAPHKLQGTSGPLLLTEEEKRTLIAEGYPIPTKLPLTKAEEKALKRVRRIKN  
KISAQESRRKKKEYVECLEKKVETFTSENNELWKKVETLENANRTLLQQLQKLQTLVTNK  
ISRPYKMAATQTGTCLMVAALCFVLVLGSLVPCLP EFSSGSQTVKEDPLAADGVYTASQM  
PSRSLLFYDDGAGLWEDGRSTLLPMEPPDGWEINPGGPAEQRPDHLQHDHLDSTHETTK  
YLSEAWPKDGGNGTSPDFSHSKEWFHDRDLGPNTTIKLS

>sp|A6N1L9|CRAS1\_HUMAN Putative uncharacterized protein CRYM-AS1 OS=Homo sapiens GN=CRYM-  
AS1 PE=5 SV=1

MDFSESEKFMVLLWKNFILKRRRCIALVVEMVLTFLFSAALLATRSVITINKNGPFDFAA  
QPVDEVFPFYITASLISPSLELAYVPSRSTVVQGIIERVKMDLNPQMKG

>sp|Q96SW2|CRBN\_HUMAN Protein cereblon OS=Homo sapiens GN=CRBN PE=1 SV=1

MAGEGDQQDAAHNMGNHLPLPAESEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYL  
GADMEEFHGRTLHDDSCQVIPVLQVMMILIPGQTLPLQLFHPQEVSMVRNLIQKDRTF  
AVLAYSNVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIQRQRFKVLELRTQSDGIQQA  
KVQILPECVLPSTMSAVQLES LNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLTSW  
PRWLYSLYDAETLMDRIKKQLREWDENLKDDSLPSNPIDFSYRVAACLPIDDVLR IQLLK  
IGSAIQRLRCELDIMNKCTSLCKQCQETEITTKNEIFSLSLCGPMAAYVNPHGYVHETL  
TVYKACNLNLIGRPSTEHSWFPGYAWTVAQCKICASHIGWKFTATKKDMSPQKFWGLTRS  
ALLPTIPDTEDEISPDKVILCL

>sp|Q96D31|CRCM1\_HUMAN Calcium release-activated calcium channel protein 1 OS=Homo  
sapiens GN=ORAI1 PE=1 SV=2

MHPEPAPPPSRSSPELPPSGGSTTSGSRRSRRRSGDGEPPGAPPPPSAVTYPDWIGQSY  
SEVMSLNEHSMQALS WRKLYLSRAKLKASSRTSALLSGFAMVAMVEVQLDADHDYPPGGLL  
IAFSACTTVLVAVHLFALMISTCILPNIEAVSNVHNLNSVKESPHERMHRHIELAWAFST  
VIGTLLFLAEVLLCWWKFLPLKKQPGQPRPTSKPPASGAAANVSTSGITPGQAAAIAS

TIMVPFGLIFIVFAVHFYRSLVSHKTDQRQFQELNELAEFARLQDQLDHRGDHPLTPGSHY

A

>sp|Q9UGL9|CRCT1\_HUMAN Cysteine-rich C-terminal protein 1 OS=Homo sapiens GN=CRCT1 PE=1 SV=1

MSSQQSAVSAKGFSGSSQGPAPCPAPAPTPAPASSSSCCGSGRGCCGDSGCCGSSSTSC  
CCFPRRRRRQRSSGCCCCGGGSGRSQRSNNRSSGCCSGC

>sp|Q8IUR6|CRERF\_HUMAN CREB3 regulatory factor OS=Homo sapiens GN=CREBRF PE=1 SV=2

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SLEDCKDIENLESFTDVLNNEGALTSNWEQWDTYCEDLTKYTKLTSCDIWGTKEVDYLGL  
DDFSSPYQDEEVISKPTLAQLNSEDSSQSVSDSLYYPDLSFSVKQNPLPSSFPGKKITSR  
AAPVCSSKTLQAEVPLSDCVQKASKPTSSTQIMVKTNMYHNEKVNHFVECKDYVKKAKV  
KINPVQQRPLLSQIHTDAAKENTCYCGAVAKRQEKKGMEPLQGHATPALPFKETQELLL  
SPLPQEGPGSLAAGESSSLASSTSVSDSSQKKEEHNYSLFVSDNLGEQPTKCSPEEDEED  
EEDVDEDDHDEGFGSEHELSENEEEEEEEEDYEDDKDDDISDTFSEPGYENDSVEDLKEV  
TSISSRKRGRRYFWEYSEQLTPSQQERMLRPSEWNRTLPSNMYQKNGLHHGKYAVKKS  
RRTDVEDLTPNPKLLQIGNELRKLNVISDLTPVSELPLTARPSRKEKNKLASRACRL  
KKKAQYEANKVKLWGLNTEYDNLFLVINSIKQEIIVNRVQNPRDERGPNMGQKLEILIKDT  
LGLPVAGQTSEFVNQVLEKTAEGNPTGGLVGLRIPTSKV

>sp|075177|CREST\_HUMAN Calcium-responsive transactivator OS=Homo sapiens GN=SS18L1 PE=1 SV=2

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LATIADSNQNMQSLLPAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQ  
GQIGNGPSHVSMQQTAPNTLPTTSMISGPGYSHAGPASQGVPMQGGTIGNYVSRTNIN  
MQSNPVSMMQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGSMMGQRPMPYRPSQQ  
GSSQQYLQGEEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQ  
HYEGGNSQYSQQQAGYQQGAAQQYTYSQQQYPSQQSYPGQQGYGSAQGAPSQYPGYQQ  
GGGQQYGSYRAPQTAPSAQQRPYGYEQGQYGNYYQQ

>sp|P07316|CRGB\_HUMAN Gamma-crystallin B OS=Homo sapiens GN=CRYGB PE=1 SV=3

MGKITFYEDRAFGQRSYECTTDCPNLQPYFSRCNSIRVESGCWMIYERPNYQGHQYFLRR  
GEYPDYQQWMGLSDSIRSCCLIPPHSGAYRMKIYDRDELRGQMSLTDDCISVQDRFHLT  
EIHSLNVLEGSWILYEMPNYRGRQYLLRPGEYRRFLDWGAPNAKVGSLRRVMDLY

>sp|P07320|CRGD\_HUMAN Gamma-crystallin D OS=Homo sapiens GN=CRYGD PE=1 SV=3

MGKITLYEDRGFGQRHYECSSDHPNLQPYLSRCNSARVDSGCWMLYEQPNYSGLQYFLRR  
GDYADHQWMGLSDSVRSCRLIPHSGSHRIRLYEREDYRGQMIEFTEDCSCLQDRFRFNE  
IHSLNVLEGSWVLYELSNYRGRQYLLMPGDYRRYQDWGATNARVGSLLRRVIDFS

>sp|P54107|CRIS1\_HUMAN Cysteine-rich secretory protein 1 OS=Homo sapiens GN=CRISP1 PE=1 SV=1

MEIKHLLFLVAAACLLPMLSMKKKSARDQFNKLVTDLPNVQEEIVNIHNALRRRVPPAS  
NMLKMSWSEAAQNARIFSKYCDMTESNPLERRLPNTFCGENMHMTSYPVSWSSVIGVWY  
SESTSFKHGEWTTTDDITTDHYTQIVWATSYLIGCAIASCRQQGSPRYLYVCHYCHEGN  
DPETKNEPYKTGVPCEACPSNCKDLCTNPCIYYDEYFDCDIQVHYLGCNHSTTILFCKA  
TCLCDTEIK

>sp|P16562|CRIS2\_HUMAN Cysteine-rich secretory protein 2 OS=Homo sapiens GN=CRISP2 PE=1 SV=1

MALLPVLFLVTVLLPSLPAEGKDPAFTALLTTQLQVQREIVNKHNELRKAVSPPASNMLK  
MEWSREVTTNAQRWANKCTLQHSDPEDRKTSTRCGENLYMSSDPTSWSSAIQSWYDEILD  
FVYGVGPKSPNAVVGHYTQLVWYSTYQVGCGLIAYCPNQDSLKYYYVCQYCPAGNNMNRKN  
TPYQQGTPCAGCPDDCDKGLCTNSCQYQDLLSNCDLKNLNTAGCEHELLKEKCKATCLCEN  
KIY

>sp|P54108|CRIS3\_HUMAN Cysteine-rich secretory protein 3 OS=Homo sapiens GN=CRISP3 PE=1  
SV=1

MTLFPVLLFLVAGLLPSFPANEDKDPAFTALLTTQTQVQREIVNKHNELRRVSPPARNM  
LKMEWNKEAAANAQKWANQCNYRHSNPKDRMTSLKCGENLYMSSASSWSQAIQSWFDEY  
NDFDFGVGPKTPNAVVGHYTQVWYSSYLVGCGNAYCPNQKVLKYYYVCQYCPAGNWANR  
LYVPYEQGAPCASCNDGGLCTNGCKYEDLYSNCKSLKLTCTCKHQLVRDSCKASCNC  
SNSIY

>sp|P46108|CRK\_HUMAN Adapter molecule crk OS=Homo sapiens GN=CRK PE=1 SV=2

MAGNFDSEERSSSWYGRLSRQEAVALQGGRHGVFLVRDSTSPGDYVLSVSENSRVSHY  
IINSSGPRPPVPPSPAQPPPGVSPSRLRIGDQEFDSLALLEFYKIHVLDTTTTLIEPVS  
SRQGSVILRQEEAEYVRALDFNGNDEEDLPFKKGDILRIRDKPEEQWWNAEDSEGKRG  
MIPVPYVEKYRPASASVSALIGNQEGSHPQLGGPEPGPYAQPSVNTPLPNLQNGPIYA  
RVIQKRVPNAYDKTALALEVGELVKVTKINVSQWEGECNGKRGHFPFTHVRLLDQQNPD  
EDFS

>sp|Q9H336|CRLD1\_HUMAN Cysteine-rich secretory protein LCCL domain-containing 1 OS=Homo  
sapiens GN=CRISPLD1 PE=2 SV=1

MKCTAREWLRVTTVLFMARAIPAMVVPNATLLEKLEKYMDEDEGEWWIAKQRGKRAITDN  
DMQSILDLHNKLSQVYPTASNMEYMTWDVELERSAESWAESCLWEHGPAALLPSIGQNL  
GAHWGRYRPPTFHVQSWYDEVKDFSYPYEHECNPYCPFRCSGPVCTHYTQVWATSNRIG  
CAINLCHNMNIWGQIWPKAVYLCNYSKGNWWGHAPYKHGRPCSACPPSFGGGCRENLC  
YKEGSDRYYPREEETNEIERQQSQVHDTHVTRSDSSRNEVISAQQMSQIVSCEVRLR  
DQCKGTTCNRYECPAGCLDSKAKVIGSVHYEMQSSICRAAIHYGIIDNDGGWVDITRQGR  
KHFIKSNRNGIQITIGKYQSANSFTVSKVTQAVTCETTVEQLCPFHKPASHCPRVYCPR  
NCMQANPHYARVIGTRVYSDLSICRAAVHAGVVRNHGGYVDVMPVDKRKTYIASFQNGI  
FSESLQNPPEGGAFRVFAVV

>sp|A8MQ03|CRTP1\_HUMAN Cysteine-rich tail protein 1 OS=Homo sapiens GN=CYSRT1 PE=1 SV=1

MDPQEMVVKNPYAHISIPRAHLRPDLGQQLEVASTCSSSEMQLPVGPCAPEPTHLLQP  
TEVPGPKGAKGNQGAAPIQNQAWQQPGNPYSSSRQAGLTAGPPPAGRGDDIAHHCCC  
CPCCHCCHCPPFCRCHSCCCCVIS

>sp|Q6PB30|CSAG1\_HUMAN Putative chondrosarcoma-associated gene 1 protein OS=Homo sapiens  
GN=CSAG1 PE=2 SV=2

MSATTACWPAFTVLGEARGDQVDWSRLYRDTGLVKMSRKPRASSPFSNNHPSTPKRFPRQ  
PKREKGPVKEVPGTKGSP

>sp|Q4G0I0|CSMT1\_HUMAN Protein CCSMT1 OS=Homo sapiens GN=CCSMST1 PE=2 SV=1

MNRVLCAPAAGAVRALRLIGWASRSLHPLGSRDRAHPAAEEEDDPDRPIEFSSSKANPH  
RWSVGHTMGKGHQRPPWKVLPSCFLVALIIWCYLREESEADQWLRQVWGEVPEPSDRSE  
EPETPAAYRART

>sp|Q9H4W6|COE3\_HUMAN Transcription factor COE3 OS=Homo sapiens GN=EBF3 PE=1 SV=2

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NLRKSNFFHFVLALYDRQQPVEIERTAFVDFVEKEKEPNNEKTNNGIHYKLQLLYSNGV  
RTEQDLYVRLIDSMTKQAIVYEGQDKNPEMCRVLLTHEIMCSRCCDKKSCGNRNETPSDP  
VIIDRFFLKFFLKCNQCNCLKNAGNPRDMRRFQVVVSTTVNVDGHVLAVSDNMFVHNSKH  
GRRARLDPSEGTAPSYLENATPCIKAIISPSEGWTTGGATVIIIGDNFFDGLQVVFGTML  
VWSELITPHAIRVQTTPRHIPGVVEVTL SYKSKQFCKGAPGRFVYTALNEPTIDYGFQRL  
QKVI PRHPGDPERLPKEVLLKRAADLVEALYGMPHNNQEII LKRAADIAEALYSVPRNHN  
QIPTLGNNPAHTGMMGVNSFSSQLAVNVSETSQANDQVGYSRNTSSVSPRGYVPSSTPQQ  
SNYNTVSTSMNGYSGAMASLGVPGSPGFLNGSSANSPYGIVPSSPTMAASSVTLP SNCS  
STHGIFSFSPANVISAVKQKSAFAPVVRPQASPPPSCTSANGNGLQAMSGLVVPPM

>sp|P23528|COF1\_HUMAN Cofilin-1 OS=Homo sapiens GN=CFL1 PE=1 SV=3

MASGVAVSDGVIKVFNDMKVRKSSSTPEEVKKRKKAVLFCLSEDKKNIILEEGKEILVGDV  
GQTVDPPYATFVKMLPKDCRYALYDATYETKESKKEDLVFIFWAPESAPLKSKMIYASS  
KDAIKKKLTGIKHELQANCYEEVKDRCTLAEKLGGSAVISLEGKPL

>sp|Q86Y22|CONA1\_HUMAN Collagen alpha-1(XXIII) chain OS=Homo sapiens GN=COL23A1 PE=1 SV=1

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LQGRVAALEEERELLRRAGPPGALDAWAEPHLERLLREKLDGLAKIRTAREAPSECVCPP  
GPPGRRGKPGRRGDPGPPGQSGRDGYPGPLGLDGKPGLPKGEKGAPGDFGPRGDQGGD  
GAAGPPGPPGPPGARGPPGDTGKDGPRGAQGPAGPKGEPGQDGMGPKGPPGPKGEPGVP  
GKKGDDGTPSQPGPPGPKGEPGSMGPRGENGVGDGAPGPKGEPGHRGTDGAAGPRGAPGLK  
GEQGD TVV IDYDGRILDALKGPPGPGPPGPGIPGAKGELGLPGAPGIDGEGPKGQKG  
DPGEPGPAGLKGEAGEMGLSGLPGADGLKGEKGESASDSLQESLAQLIVEPGPPGPPGPP  
GPMGLQGIQGPGLDGAKGEKGASGERGPSGLPGVPGLI GLPGTKGEKGRPGEPGLD  
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>sp|Q9BXS0|COPA1\_HUMAN Collagen alpha-1(XXV) chain OS=Homo sapiens GN=COL25A1 PE=1 SV=2

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PAGPPGKRGRGRRGESGPPGPGPGPPGPKGDKGEQGDQGPRMVFPKINHGFLSADQQ  
LIKRRLIKGDQAGPPGPPGPPGPRGPPGDTGKDGPRGMPGVPGEPGKPGEQGLMGPLG  
PPGQKSGIGAPGIPGMNQKGEPLPGAVGQNGIPGPKGEPGEQGEKGDAGENGPKGDTG  
EKGDPGSSAAGIKGEPGESGRPGQKGEPLPLPLPGIKGEPGFIGPQGEPLPLPGT  
KGERGEAGPPGRGERGEPGAPGPKGKQGESGTRGPKGSKGDRGEKGDGAQGRGPPGQK  
GDQGATEIIDYNGNLHEALQRITTLTVTGPPGPPGQGLQGPKEQGSPIPGMDGEQGL  
KGSKGMDPGMTGEKGGIGLPLPGANGMKGEKGDGMPGPGPSIIGPPGPPGPHGPP  
GPMGPHGLPGPKGTDGPMGPHGAPGPKGERGEKGAMGEPGPRGPYGLPGKDGEPLDGFP  
GPRGEKGLGEKGEKGRGVKGEKGEPPGQGLDGLDAPCQLGPDGLPMPGCWQK

>sp|Q5HYK3|COQ5\_HUMAN 2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial  
OS=Homo sapiens GN=COQ5 PE=1 SV=2

MAAPGSCALWSYCGRWSRAMRGCQLLGLRSSWPGDLLSARLLSQEKRAAETHFGFETVS  
EEEKGGKVYQVFESVAKKYDVMNDMMSLGIHRVWKDLLWKMHPLPGTQLLDVAGGTGDI  
AFRFLNYVQSQHQRKQKRQLRAQQNLSWEEIAKEYQNEEDSLGGSRVVVCINKEMLKVG  
KQKALAQGYRAGLAWVLGDAEELPFDDDKFDIYTIAFGIRNVTHIDQALQEAHRVLKPGG  
RFLCLEFSQVNNPLISRLYDLSYFQVIPVLGEVIAGDWKSYQYLVESIRRFPSQEEFKDM  
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>sp|Q96A83|COQA1\_HUMAN Collagen alpha-1(XXVI) chain OS=Homo sapiens GN=COL26A1 PE=1 SV=1

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TRTVSCQVQNGSETVVQRVYQSCRWPGPCANLVSYRTLIRPTYRVSYRTVTVLEWRCCPG  
FTGSNCDEECMNCTRLSDMSERLTLEAKVLLLEAAERPSSPDNDLPAPESTPPTWNEDF  
LPDAIPLAHPVPRQRRTGPAGPPGQTGPPGPAGPPGSKGDRGTGEKGPAGPPGLLGPP  
GPRGLPGEMGRPGPPGPPGPAGNPGPSPNPQGALYSLQPPTDKNGDSRLASAIVDTVL  
AGVPGPRGPPGPPGPPGPRGPPGPPGTPGSQGLAGERGTVGPSGEPGVKGEEGEKAATAE  
GEGVQQLREALKILAERVLILEHMIIGHDPLASPEGGSGQDAALRANLKMKGGAQPDGV  
LAALLGPDPGQKSVDQASSRK

>sp|Q9ULV4|COR1C\_HUMAN Coronin-1C OS=Homo sapiens GN=CORO1C PE=1 SV=1

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LPLHKTGRIDKSYPTVCGHTGPVLDIDWCPHNDQVIASGSEDCTVMVWQIPENGLTSLT  
EPVVILEGHSKRVGIVAWHPTARNVLLSAGCDNAII IWNVGTGEALINLDDMHSDMIYNV  
SWNRNGSLICTASKDKKVRVIDPRKQEI VAEKEKAHEGARPMRAIFLADGNVFTTGFSRM  
SERQLALWNPKNMQEPIALHEMDTSNGVLLPFYDPDTSIIYLCKGKGDSSIRYFEITDESP  
YVHYLNTFSSKEPQRGMGYMPKRGLDVNKCEIARFFKLHERKCEPIIMTVPRKSDLFQDD  
LYPDTAGPEAALEAEWFEGKNADPILISLKHGYIPGKNRDLKVVKKNILDSKPTANKKC  
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>sp|P57737|CORO7\_HUMAN Coronin-7 OS=Homo sapiens GN=CORO7 PE=1 SV=2

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VLGPEDLPVEVLQFHPTSDGILVSAAGTTVKVWDAKQQLTELAHGDVLQSAVWSRDG  
ALVGTACKDKQLRIFDPRTKPRASQSTQAHENSRRSLAWMGWTEHLVSTGFNQMREREV  
KLWDTRFFSSALASLTDLTSLGCLVPLDPDSGLLVLAGKGERQLCYEVVPPQPALSPV  
TQCVLESVLRGAALVPRQALAVMSCEVLRVLQLSDTAIVPIGYHVPKAVEFHEDLFPDT  
AGCVPATDPHSWWAGDNQQVQVSLNPACRPHPSFTSCLVPPAEPLPDTAQPAVMPETPVG  
DADASEGFSSPPSSLTSPSTPSSLGPSLSSTSGIGTSPSLRSLQSLGPPSSKFRHAQGT  
LHRDSHITNLKGLNLTPGESDGFCANKLRVAVPLSSGGQVAVLELRKPGRLPDTALPT  
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RFHPLAANVLASSSYDLTVRIWDLQAGADRLKLQGHQDQIFSLAWSPDQQLATVCKDGR  
VRVYRPRSGEPLQEGPGPKGGRGARIVWVCDGRCLLVSGFDSQSERQLLLYEAEALAGG  
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GLVLLPKTECDVREVELMRCLRLRQSSLEPVAFRLPRVRKEFFQDDVFPDTAVIWEPVLS  
AEAWLQGANQPWLLSLQPPDMSPVSQAPREAPARRAPSSAQYLEEKSDQQKKEELNAM  
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>sp|P24468|COT2\_HUMAN COUP transcription factor 2 OS=Homo sapiens GN=NR2F2 PE=1 SV=1

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CPIDQHHRNQCCYCRLLKCLKVGMREAVQRGRMPPTQPTHGQFALTNGDPLNCHSYLSG  
YISLLLRAEPTYTSRFGSQCMQPNMIGIENICELAARMLFSAVEWARNIPFFPDLQITD  
QVALLRLTWSELVFNAAQCSMPLHVAPLLAAAGLHASPMASDRVAFMDHIRIFQEQQVE  
KLKALHVDSAEYSCLKAIVLFTSDACGLSDVAHVESLQEKSSQCALEEYVRSQYPNQPTRF  
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>sp|Q5TCH4|CP4AM\_HUMAN Cytochrome P450 4A22 OS=Homo sapiens GN=CYP4A22 PE=1 SV=1

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GHIQEFQHDQELQRIQERVKTFPSACPYWIWGGKVRVQLYDPDYMKVILGRSDPKSHGSY  
KFLAPRIGYGLLLNGQTWFQHRRLTPAFHNDILKPYVGLMADSVRVMLDKWEELGQD  
SPLEVFQHVSLMTLDTIMKSAFESHQGSIQVDRNSQSYIQAISDLNSLVFCCMRNAFHEND  
TIYSLTSAGRWTHRACQLAHQHTDQVIQLRKAQLQKEGELEKIKRKRHLDFLDILLAKM  
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ITWNHLDQMPYTTMCIKEALRLYPPVPGIGRELSTPVTFPDGRSLPKGIMVLLSIYGLHH  
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>sp|Q9HBI6|CP4FB\_HUMAN Phylloquinone omega-hydroxylase CYP4F11 OS=Homo sapiens GN=CYP4F11  
PE=1 SV=3

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DMIFYGFLKPWLGDGLLLSGGDKWSRHRRLTPAFHFNILKPYMKIFNKSVMIMHDKWQR  
LASEGSARLDMFEHISLMTLSLQKCVFSFESNCQEKPSYIAAILELSAFVEKRNQQIL  
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VLLLSKDEDGKELSDDIRAEADTFMFEGHDTTASGLSWVLYHLAKHPEYQEQCRQEVQE  
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>sp|Q02930|CREB5\_HUMAN Cyclic AMP-responsive element-binding protein 5 OS=Homo sapiens  
GN=CREB5 PE=1 SV=3

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PHPQPHHQQNHPHHHSHSLHAHPAHHQTSPPHPLHTGNQAQVSPATQQMQPTQTIQPPQ  
PTGRRRRRVDEDPERRRKFLERNRAAATRCRQKRKVWMSLEKKAEELTQTNMQLQNE  
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>sp|Q9Y4F4|CREC1\_HUMAN Crescerin-1 OS=Homo sapiens GN=FAM179B PE=1 SV=4

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DQEDYKNRTQAVEELKQVLGKFNPSSTPHSSLVGFISLLYNLLDDSNFKVVHGTLEVLHL  
LVIRLGEQVQFLGPVIAASVKVLADNKLVIKQEYMKIFLKLMEVGPQQVLCLEHLK  
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MGSGKTSILFKAVDTVELQDNGDGMNAVQARLARKTLPRLTEQGFVEYAVLMPSSAGGR  
SNHLAHGADTDWLLAGNRTQSAHCHCGDHVRDSMHIYGSYSPTICTRRVLSAGKGKNKLP  
WENEQPGIMGENQTSKDIQFSTYDFIPSAKLKLSQGMFVNDDLCSRKRVSRNLFQN  
SRDFNPDCPLCAAGTTGTHQTNLSGKCAQLGFSQICGKTGSVGSDLQFLGTTSSHQEKV



YASLNFGSKTQQTFGSQTECTSSNGQNPSPGAYILPSYPVSSPRTSPKHTSPLIISPCKS  
QDNSVNFNSNWPLKSFEGLSKPSQKKLVSKSSDPTGRNHGENSQEKPPVQLTPALVRS  
PSSRRGLNGTKPVPIPRGISLLPKADLSTVGHKKEPDDIWKCEKDSLIDLSELNFK  
DKDLQDEEMHSSLRLRNSAAKKRAKLSGSTSDLESPDSAMKLDLTMDSPSLSSSPNINS  
YSESGVYSQESLTSSLSTTPQGKRIMSDIFPTFGSKPCPTRLSSAKKKISHIAEQSPSAG  
SSSNPQQISSFDFTTKALSEDSVVVVVGKGVFGSLSSAPATCSQSVISSVENDTFSIKQ  
SIEPPSGIYGRSVQNNISSYLDVENEKDAKVSISKSTYNKMRQKRKEEKELFHNKCEKK  
EKNSWERMRTGTEKMASESETPTGAISQYKERMPSVTHSPEIMDLSELRPFSKPEIALT  
EALRLLADEDWEKKIEGLNFIRCLAAFHSEILNTKLHETNFAVVQEVKNLRSGVSRAAVV  
CLSDLFTYLKKSMDQELDTTVKVLHKAGESNTFIREDVDKALRAMVNNVTPARAVVSLI  
NGGQRYYGKMLFFMCHPNFEKMLEKYVPSKDLPIKDSVRNLQQKGLGEIPLDTPSAK  
GRRSHTGSVGNTRSSSVSRDAFNSAERAVTEVREVTRKSVPRNSLESAEYKLITGLLNA  
KDFRDRINGIKQLSDTENNQDLVVGNIKIFDAFKSRLHDSNSKVNLALETMHKMIPL  
LRDHLSPINMLIPAIVDNNLSKNPGIYAAATNVVQALSQHVDNYLLLPFCTKAQFLN  
GKAKQDMTEKLADIVTELYQRKPHATEQKVLVVLWHLLGNMTNSGSLPGAGGNIRTATAK  
LSKALFAQMGNLLNQAASQPPHIKKSLEELDDMTILNEL

>sp|Q8IUH2|CREG2\_HUMAN Protein CREG2 OS=Homo sapiens GN=CREG2 PE=1 SV=1

MSVRRGRRPARPGTRLSWLLCCSALLSPAAGYVIVSSVSWAVTNEVDEELDSASTEEAMP  
ALLEDSGSIWQQSFPASAHKEDAHLRPRAGAARARPPPAPPGMFSYRREGGQTASAPPGP  
RLRAATARSLAHASVWGCLATVSTHKKIQGLPFGNCLPVSDGPFNNSTGIPFFYMTAKDP  
VVADLMKNPMASMLPESEGEFCRKNIVDPEDPRCVQLTLTGQMIAVSPEEVEFAKQAMF  
SRHPGMRKWPRQYEWFFMKMRIEHIWLQKWYGGASSISREEYFKAVPRKA

>sp|Q6UXH1|CRELD2\_HUMAN Cysteine-rich with EGF-like domain protein 2 OS=Homo sapiens  
GN=CRELD2 PE=1 SV=1

MRLPRRAALGLPLLLLLPPAPEAAKKPTPCHRCRGLVDKFNQGMVDTAKKNFGGGNTAW  
EEKTLKYESSEIRLLEILEGLCESSDFECNQMLEAQEEHLEAWWLQKSEYDLEFEWFC  
VKTLKVVCCSPGTYPDCLACQGGSQRPCSGNGHCSGDGSRQGDGSCRCHMGYQGPLCTDC  
MDGYFSSLRNETHSICTACDESKTCSGLTNRDCGECEVGWVLDEGACVDVDECAEPPP  
CSAAQFCKNANGSYTCEECDSSCVGCTGEGPGNCKECISGYAREHGQCADVDECSLAEKT  
CVRKNENCYNTPGSYVCVCPDGFEEETEDACVPPAEAEATEGESPTQLPSREDL

>sp|Q03060|CREM\_HUMAN cAMP-responsive element modulator OS=Homo sapiens GN=CREM PE=1 SV=5

MSKCARKKYIKTNPRQMTMETVESQHDGSITASLTESKSAHVQTQTGQNSIPALAQVSVA  
GSGTRRGSPAVTLVQLPSGQTIHVQGVITPQPWVIQSSEIHTVQVAAIAETDESAESEG  
VIDSHKRREILSRPSYRKILNELSSDVPGVPKIEERSEEEGTPPSIATMAVPTSIIYQT  
STGQYIAIAQGGTIQISNPGSDGVQGLQALTMNSGAPPPGATIVQYAAQSADGTQQFFV  
PGSQVVVQDEETELAPSHMAAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEE  
ATRKRELRLMKNREAAKECRRRKKEYVKCLESRVAVLEVQNKKILIEELETLDKICSPKTD  
Y

>sp|Q9NZV1|CRIM1\_HUMAN Cysteine-rich motor neuron 1 protein OS=Homo sapiens GN=CRIM1 PE=1  
SV=1

MYLVAGDRGLAGCGHLLVSLGLLLLLARSGLTRALVCLPCDESKCEEPRNCPGSIVQGV  
GCCYTCASQRNESCGGTFGIYGTCDRLRCVIRPPLNGDSLTEYEAGVCEDENWTDDQLL  
GFKPCNENLIAGCNILINGKCECNTIRTCNPFEPFSQDMCLSALKRIEEEPDCSKARCE  
VQFSRCPEDSVLIEGYAPPGECCLPSRCVCNPAGCLRKVCQPGNLNLLVSKASGKPGE

CCDLYECKPVFGVDCRTVECPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF  
PVCEVGSTPRIVSRGDGTPGKCCDVFEVNDTKPACVFNNVEYYDGMFRMDNCRFCRCQ  
GGVAICFTAQCGEINCERYVPEGECCPVCEDPVYFNNPAGCYANGLILAHGDRWREDD  
CTFCQCVNGERHCVATVCGQTCTNPVKVPGECCPVCEEPTIITVDPPACGELSNCITLTGK  
DCINGFKRDHNGCRTCQCINTEELCSERKQGCTLNCPFGFLTDAQNCEICECRPRPKKCR  
PIICDKYCPLGLLKNKHGCDICRCKKPELSCSKICPLGFQQDSHGCLICKCREASASAG  
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCP  
SCADDFVVQKPELSTPSICHAPGGYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLC  
QNPSRTQDSCCPQCTDQFPRPSLSRNNSVPNYCKNDEGDI FLAAESWKPDVCTSCICIDS  
VISCFSSECPVSCERPVLKGGCCPYCIEDTIPKKVVCHFSGKAYADEERWDLDSCTHC  
YCLQGQTLCSTVSCPPLPCVEPINVEGSCCPMCPemyVPEPTNPIEKTNHRGEVDLEVP  
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSSEDSSLDIASVVVPIIICLSIIIAFLFI  
NQKKQWIPLLCWYRTPTKPSSLNNQLVSDCKKGTRVQVDSSQRMLRIAEPDARFSGFY  
MQKQNLQADNFYQTV

>sp|Q6Q6R5|CRIP3\_HUMAN Cysteine-rich protein 3 OS=Homo sapiens GN=CRIP3 PE=2 SV=2

MSWTCPRCQQPVFFAEKVSSLGKNWHRFCLKCERCHSILSPGGHAEHNGRPYCHKPCYGA  
LFGPRGVNIGGVSYLYNPPTSPGCTTPLSPSSFSPRPRTGLPQGKKSPPHMKTFTE  
TSLCPGCGEPVYFAEKVMSLGRNWRPCLRCQRCHKTLTAGSHAHDGVPYCHVPCYGYL  
FGPKGGQPHPRHWDGMYMPEVWHVHGLWVCVDNFPCG

>sp|Q96LR1|CRIT1\_HUMAN Putative uncharacterized protein encoded by CRHR1-IT1 OS=Homo sapiens GN=CRHR1-IT1 PE=2 SV=1

MHPWLGSALGFPKCRGIHLACGNGWTPGETLSQNKTEITKNKVTWRPHGCEPNTGLGY  
QGSHTSKYTLLPWNLLKTKPLPPSHGKEGKEAKVPSGDNSGRGEVPRAQEGQAACGRAA  
SGDSQEGMRRGYEERATAQRPAVRSAAETTAHGTWIYP

>sp|075718|CRTAP\_HUMAN Cartilage-associated protein OS=Homo sapiens GN=CRTAP PE=1 SV=1

MEPGRRGAAALLALLCVACALRAGRAQYERYSFERSFPRDELMPLESAYRHALDKYSGEHW  
AESVGYLEISLRLHRLLRDSEAFCHRNCSAAPQPEPAAGLASYPELRLFGGLLRRAHCLK  
RCKQGLPAFRQSQPSREVLADFQRREPYKFLQFAYFKANNLPKAIAAHTFLLKHPDDEM  
MKRNMAYYKSLPGAEDYIKDLETYSYELFIRAVRAYNGENWRTSITDMELALPDFKAF  
YECLAACEGSREIKDFKDFYLSIADHYVEVLECKIQCEENLTPVIGGYPVEKFVATMYHY  
LQFAYYKLNLDKNAAPCAVSYYLFDQNDKVMQNLVYYQYHRDTWGLSDEHFQPRPEAVQ  
FFNVTTLQKELYDFAKENIMDDDEGEVVEYVDDLLELEETS

>sp|Q53ET0|CRTC2\_HUMAN CREB-regulated transcription coactivator 2 OS=Homo sapiens GN=CRTC2 PE=1 SV=2

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YTRSSHYGSLPNVNQIGSGLAEFQSPLHSPLDSSRSTRHHGLVERVQRDPRRMVSPLRR  
YTRHIDSSPYSPAYLSPPPESSWRRTMAWGNFPAEKGQLFRLPSALNRTSSDSALHTSVM  
NPSPQDTPYGPPTPSILPSRRGGILDGEMDPKVPATEENLLDDKHLLKPWDAKKLSSSSS  
RPRSCEVPGINIFSPDQPANVPVLPPAMNTGGSLPDLTNLHFPPPLPTPLDPEETAYPS  
LSGGNSTSNLTHMTHLGISRGMGLPGYDAPGLHSPLSHPSLQSSLSNPNLQASLSSPQ  
PQLQGSHSHPSLPASSLARHVLPTTSLGHPSLSAPALSSSSSSSSSTSSPVLGAPSYAST  
PGASPHHRRVPLSPLSLLAGPADARRSQQQLPKQFSPTMSPTLSSITQGVPLDTSKLSTD  
QRLPPYPYSSPSLVLTQPHTPKSLQQPLPSQSCSVQSSGGQPPGRQSHYGTYPYPGPS  
GHGQQSYHRPMSDFNLGNLEQFSMESPSASLVLDPPGFSEGPGLGGEGPMGGPQDPHTF

NHQNLTCHSRHSGPNIILTGDSSPGFSKEIAAALAGVPGFEVSAAGLELGLGLEDELRM  
EPLGLEGLNMLSDPCALLPDPAVEESFRSDRLQ

>sp|Q9Y534|CSDC2\_HUMAN Cold shock domain-containing protein C2 OS=Homo sapiens GN=CSDC2  
PE=1 SV=1

MTSESTSPPVVPLHSPKSPVWPTFPFHREGSRVWERGGVPPRDLPSPLPTKRTRTYSAT  
ARASAGPVFKGVCKQFSRSQGHGFITPENGESEIFVHVSDIEGEYVPVEGDEVYKMCPI  
PPKNQKFQAVEVVLTQLAPHTPHETWSGQVVGS

>sp|075534|CSDE1\_HUMAN Cold shock domain-containing protein E1 OS=Homo sapiens GN=CSDE1  
PE=1 SV=2

MSFDPNLLHNNGHNGYPNGTSAALRETGVIEKLLTSYGFIQCSERQARLFFHCSQYNGNL  
QDLKVGDDVEFEVSSDRRTGKPIAVKLVKIKQEILPEERMNGQVVCAPHNLESKSPAAP  
GQSPTGSVCYERNGEVFYLYTPEDVEGNVQLETGDKINFVIDNNKHTGAVSARNIMLLK  
KKQARCQGVVCMKEAFGFIERGDVVKEIFFHYSEFKGDLETLQPGDDVEFTIKDRNGKE  
VATDVRLLPQGTVIFEDISIEHFEGTVTKVIPKVPSKNQNDPLPGRIKVDVFIKELPFG  
DKDTSKSVTLLEGDHVRFNISTDRDKLERATNIEVLSNTFQFTNEAREMGVIAAMRDGF  
GFIKCVDRDVRMFFHFSEILDGNQLHIADEVEFTVVPDMLSAQRNHAIIRIKKLPGTVSF  
HSHSDHRFLGTVEKEATFSNPKTTSNPKGKEKEAEDGIIAYDDCGVKLTIAFAQKDVEGS  
TSPQIGDKVEFSISDKQRPQQVATCVRLGRNSNSKRLGCVATLKDNGFIETANHDK  
EIFFHYSEFGDVSLELGDMVEYSLSKKGKGNKVS AEKVNKTHSVNGITEEADPTIYSGK  
VIRPLRSVDPTQTEYQGMIEIVEEGDMKGEVYPFGIVGMANKGDCLQKGESVKFQLCVLG  
QNAQTMAYNITPLRRATVECVKDQFGFINYEVGDSKKLFFHVKEVQDGIELQAGDEVEFS  
VILNQRTGKCSACNVWRVCEGPKAVAAPRPDRLVNRLKNITLDDASAPRLMVLQRPGPD  
NSMGFGAERKIRQAGVID

>sp|PODML3|CSH2\_HUMAN Chorionic somatomammotropin hormone 2 OS=Homo sapiens GN=CSH2 PE=1  
SV=1

MAAGSRTSLLLAFALLCLPWLQEAGAVQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEEET  
YIPKQKYSFLHDSQTSFCFSDSIPTPSNMEETQQKSNLELLRISLLLIESWLEPVRFRLR  
SMFANNLVYDTSDDYHLLKDLEEGIQTLMGRLEDGSRRTGQILKQTYSKFDTNSHNHD  
ALLKNYGLLYCFRKDMDKVETFLRMVQCRSVEGSCGF

>sp|Q9UNS2|CSN3\_HUMAN COP9 signalosome complex subunit 3 OS=Homo sapiens GN=COPS3 PE=1  
SV=3

MASALEQFVNSVRQLSAQGQMTQLCELINKSGELLAKNLSHLDTVLGALDVQEHSLGVLA  
VLFVKFSMPSPVDFETLFSQVQLFISTCNGEHIRYATDTFAGLCHQLTNALVERKQPLRG  
IGILKQAIDKMQMNTNQLTSIHADLCQLCLLAKCFKPALPYLDVDMMDICKENGAYDAKH  
FLCYYYGGMIYTGLKNFERALYFYEQAITTPAMAVSHIMLESYKKYILVSLILLGKVQQ  
LPKYTSQIVGRFIKPLSNAYHELAQVYSTNNPSELNRLVNKHSETFTRDNNMGLVKQCLS  
SLYKKNIQRLTKTFLTSLQDMASRVQLSGPQEAKEYVLHMIEDGEIFASINQKGMVSF  
HDNPEKYNNPAMLHNIDQEMLKCIELDERLKAMDQEITVNPQFVQKSMGSQEDDSGNKPS  
SYS

>sp|PODMV1|CT458\_HUMAN Cancer/testis antigen family 45 member A8 OS=Homo sapiens GN=CT45A8  
PE=3 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSLIIAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTGFSKDRMMQKPGSNAPVGGNVTSSFSQDDLECRETAFSPKSQQ  
EINADIKRQLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFFESI I KEAARCMRRDFVKH

LKKKLKRM

>sp|Q8IX95|CTGE3\_HUMAN Putative cTAGE family member 3 OS=Homo sapiens GN=CTAGE3P PE=5 SV=1

MTFKGFQMNEEKLEIGIQDASSENQQLQESQKQLQAEVWKEQVSELNKQKITFEDSKV  
HAEQVLNDKENHIETLTERLLKIKDQAAVLEEDITDDGNLELEMNSELKDGAYLDNPPKG  
ALKKLIHAAKLNASLTLEGERNQFIFSULKLIKPGRA

>sp|Q8IX94|CTGE4\_HUMAN cTAGE family member 4 OS=Homo sapiens GN=CTAGE4 PE=2 SV=3

MEEPGATPQPYLGLVLEELRRVVAALPESMRPDENPYGFPSELVCAAVIGFFVLLFLW  
RSFRSVRSRLVYGREKQLGATLSGLIEEKCKLLEKFSLIQKEYEGYEVESSELDASFEKA  
AAEEARSLEATCEKLNRSNSELEDEILCLEKDLKEEKSQHSQDELMAISKSIQSLEDE  
SKSLKSQIAEAKIICKTFKMSEERRAIAIKDALNENSQLQTSKQLFQQEAEVWKEVSE  
LNKQKITFEDSKVHAEQVLNDKENHIKTLTGHLPMMDQAAVLEEDTDDDNLELVNSQ  
WENGANLDDPLKGALKKLIHAAKLNVSLSLEGERNHIIQLSEVDKTEELTEHIKNLQ  
TQQASLQSENIYFESQKQLKIMTEFYQENEMKLYRKLTVENYRIEEEEKLSRVE  
EKISRATEGLETYRKAKDLEELERTVHFYQKQVISYEKRGHDNLAAARTAEARNLSDLR  
KENAHNKQKLTETELKFELLEKDPNALDVSNTAFGREHSPCSPSPLGRPSSETRAFPSPQ  
TLLEDPLRLSPVLPGGGGRGPSPGNPLDHQITNERGEPSYDRLIDPHRAPSDTGSLSPP  
VEQDRRMMFPPPGQSYPDSTLPPQREDRFYSNSERLSGPAEPRSFKMTSLDKMDRSMPS  
MESSRNDKDDLGNLNPDSLLPAENEATGPGLIPPLAPISGPLFPVDTRGPFMRGPP  
FPPPPPGTMFGASRGYFPPRDFPGPPHAPFAMRNIIYPPRGLPPYLHPRPGFYPNPTF

>sp|O15320|CTGE5\_HUMAN cTAGE family member 5 OS=Homo sapiens GN=CTAGE5 PE=1 SV=4

MEEPGVTPQPYLGLLLEELRRVVAALPEGMRPDSNLYGFPWELVICAADVGGFAVLFFLW  
RSFRSVRSRLVYGREKKLALMSGLIEEKSLLLEKFSLVQKEYEGYEVESSELDASFEKE  
ATEAQSLATCEKLNRSNSELEDEILCLEKELKEEKSQHSQDELMAISKRIQSLEDES  
KSLKSQVAEAKMTFKIFQMNEERLKIAIKDALNENSQLQESQKQLQAEVWKEQVSELN  
KQKVTFEDSKVHAEQVLNDKESHIKTLTERLLKMKDWAAMLGEDITDDDNLELEMNSESE  
NGAYLDNPPKGALKKLIHAAKLNASLKTLEGERNQIYIQLSEVDKTEELTEHIKNLQTE  
QASLQSENTHFENENQKQLKVMTELYQENEMKLHRKLTVENYRLEKEEKLKVDK  
ISHATEELETYRKRAKDLEELERTIHSYQGQIISHEKKAHDNLAAARNAERNLNDLRKE  
NAHNRQKLTETELKFELLEKDPYALDVPNTAFGREHSPYGPSPLGWPSSETRAFLSPPTL  
LEGPLRLSPLLPGGGGRGSRGPNPLDHQITNERGESSCDRLTDPHRAPSDTGSLSPPWD  
QDRRMMFPPPGQSYPDALPPQRQDRFCNSNGRLSGPAELRSFNMPSLDKMDGSMPS  
SSRNDTKDDLGNLNPDSLLPAENEATGPGFVPPPLAPIRGPLFPVDARGPFLRRGPPFP  
PPPPGAMFGASRDYFPPGDFPGPPAPFAMRNVIYPPRGPFPYLPPRPGFFPPPHSEGRS  
EFPSGLIPPSNEPATEHPEPQET

>sp|Q53GD3|CTL4\_HUMAN Choline transporter-like protein 4 OS=Homo sapiens GN=SLC44A4 PE=2 SV=2

MGGKQRDEDEAYGKPVKYDPSFRGPIKNRSCTDVICCVLFLFLILGYIVVGIVAWLYGD  
PRQVLYPRNSTGAYCGMGENDKPYLLYFNIFSCILSSNIISVAENGLQCPTPQVCVSSC  
PEDPWTVGKNEFSQTVGEVYFTKNRNFCLPGVPWNMTVITSLQQELCPSFLLPSAPALGR  
CFPWTNVTTPALPGITNDTTIQQGISGLIDSLNARDISVKIFEDFAQSWYILVALGVAL  
VLSLLFILLRLVAGPLVLVLILGLVGLAYGIYYCWEEYRVLDRKGASISQLGFTTNLS  
AYQSVQETWLAALIVLAVLEAIIILLMLIFLRQRIRIAIALKEASKAVGQMMSTMFYPLV  
TFVLLLICIAYWAMTALYLATSGQPQYVLWASNISPGCEKVPINTSCNPTAHLVNSSCP

GLMCFVQGYSSKGLIQRSVFNLIYGVLGFWTLNWLALGQCVLAGAFASFYWAFHKPQ  
DIPTFPLISAFIRTLRYHTGSLAFGALILTLVQIARVILEYIDHKLRGVQNPVARCIMCC  
FKCCLWCLEKFIKFLNRNAYIMIAIYGNFCVSAKNAFMLLMRNIVRVVLDKVTDLLLF  
FGKLLVVGGVLSFFFFSGRIPGLGKDFKSPHLNYYWLPIMTSILGAYVIASGFFSVFG  
MCVDTLFLCFLEDLERNNGSLDRPYMSKSLKILGKKNEAPPDNKKRKK

>sp|Q9UBT7|CTNL1\_HUMAN Alpha-catulin OS=Homo sapiens GN=CTNNAL1 PE=1 SV=2

MAASPGPAGVGGAGAVYSGSSGFALDSGLEIKTRSVEQTLLPLVSQITTLINHKDNTKK  
SDKTLQAIQRVGQAVNLAVGRFVKVGEAIAENWDLKEEINIACIEAKQAGETIAALTDI  
TNLNLHESDGQITIFTDKTGVIKAAARLLSSVTKVLLADRVIKQIITSRNKVLATMER  
LEKVNFSQEFVQIFSQFGNEMVEFAHLSGDRQNDLKDEKKKAKMAAARAVLEKCTMMLLT  
ASKTCLRHPCESAHNKEGVFDRMKVALDKVIEIVTDCKPGETDISSISIFTGIKEFK  
MNIEALRENLYFQSKENLSVTLEVILERMEDFTDSAYTSHEHRERILELSTQARMELQQL  
ISVWIIQAQSKKTKSIAEEELSILKISHSLNELKKELHSTATQLAADLLKYHADHVVLKA  
LKLTVGEVNLEALAEYACKLSEQKEQLVETCRLLRHISGTEPLEITCIHAEETFQVTGQQ  
IISAAETLTLHPSSKIAKENLDVFCEAWESQISDMSTLLREINDVFEGRRGEKYGYLSLP  
KPMKNANLKS LKPDKPDSEEQAKIAKLGLKGLLTSADCEIEKWEDQENEIVQYGRNM  
SSMAYSLYLFTRGEGPLKTSQDLIHQLEVFAAEGKLTSSVQAFSKQLKDDDKLMLLEI  
NKL IPLCHQLQTVTKTSLQNKVFLKVDKCITKTRSMALLVQLLSLCYKLLKKLQMENNG  
WVSVTNKDTMSKT

>sp|O43246|CTR4\_HUMAN Cationic amino acid transporter 4 OS=Homo sapiens GN=SLC7A4 PE=2  
SV=3

MARGLPTIASLARLCQKLNRLKPLEDSTMETSLRRCLSTLDLTLLGVGGMVGSGLYVLTG  
AVAKEVAGPAVLLSFGVAAVASLLAALCYAEFGARVPRTGSAYLFTYVSMGELWAFLIGW  
NVLLEYIIGGAAVARAWSGYLDMSFHSIRNFTETHVGSWQVPLLGHYPDLAAGIILLA  
SAFVSCGARVSSWLNHTFSAISLLVILFIVILGFILAQPHNWSAEGGFAPFGFSGVMAG  
TASCFYAFVGFVDIAASSEEANPRRSVPLAIAISLAIAAGAYILVSTVLTLMVPWHS LD  
PDSALADAFYQGRYWAGFIVAAGSICAMNTVLLSLLFSLPRIVYAMAADGLFFQVFAHV  
HPRTQVPVAGTLAFGLLTAFLALLLDLES LVQFLSLGTL LAYTFVATSIIVLRFQKSSPP  
SSPGPASPGPLTKQSSFSDDLQLVGTVHASVPEPGE LKPALRPYLGF LDGYSPGAVVTW  
ALGVM LASAITIGCVLVFGNSTLHLP HWGYILLLLTSVMFLLSLLVLGAHQQQYREDLF  
QIPMVPLIPALSIVLNICMLKLSYLTWVRFSIWLLMGLAVYFGYGI RSKENQREL PGL  
NSTHYVVFPRGSLEETVQAMQPPSQAPAQDPGHME

>sp|P59036|CU082\_HUMAN Putative uncharacterized protein encoded by LINC00310 OS=Homo  
sapiens GN=LINC00310 PE=5 SV=1

MRQGCKFRGSSQKIRWSRSPSSLLHTLRPRLLSAEITLQTNLPLQSPCCRLCFLRGTA  
KTLK

>sp|Q6ZN03|CU136\_HUMAN Putative uncharacterized protein encoded by LINC00322 OS=Homo  
sapiens GN=LINC00322 PE=5 SV=1

MALLITPAGVATVNRHSTIPSDTHTSREKPRFHKPCRNDLESLLSEGRLDTSVQTPCPQH  
PHTQLSCEPQPLEHSSCLSTCLAGCFLPVPSSPHTHPLLP GSRWLPPPLALLMGTLSPGL  
AVKPSWVPRFLLARQSPATSVGMPLSAATQPGSVGRLHFPKLRSSSPFSGHSDENKATG  
QGREN RDQPQRPSHLCECEAAKQSATNGVAETNRSVFPLGSEARSLSLRRQESQPHSGS  
SRRESVSCSPSFWCCWQPLAFLTCGCAAPISVPGVTRPSRPCCVSPPLVRLQSLGLGPT  
QI

>sp|P39880|CUX1\_HUMAN Homeobox protein cut-like 1 OS=Homo sapiens GN=CUX1 PE=1 SV=3

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QGEIDALSKRSKEAAEAFNLVYKRLIDVPDPVPALDLGQQQLQKLVQRLHDIETENQKLRE  
TLEEYNKEFAEVKNQEVTIKALKEKIREYEQTLKNQAETIALEKEQKLQNDFAEKERKLQ  
ETQMSTTSKLEEAHKVQSLQTALEKTRTELFDLTKYDEETTAKADEIEMIMTDLERAN  
QRAEVAQREAETLREQLSSANHSLQLASQIQKAPDVEQAIEVLTRSSLEVELAAKEREIA  
QLVEDVQRLQASLTKLRENSASQISQLEQQLSAKNSTLKQLEEKLGQADYEEVKKELNI  
LKSMEFAPSEAGTQDAAKPLEVLLLEKNRSLQSENAALRISNSDLSGSARRKGDQPES  
RRPGSLPAPPPSQLPRNPGEQASNTNGTHQFSPAGLSQDFFSSSLASPSLPLASTGKFAL  
NSLLQRQLMQSFYSKAMQEAGSTSMIFSTGPYSTNSISSQSPLQQSPDVNGMAPSPSQSE  
SAGSVSEGEEMDTAEIARQVKEQLIKHNIGQRIFGHYVLGLSQGSVSEILARPKPWNKLT  
VRGKEPFHKMKQFLSDEQNILALRSIQGRQRENPGQSLNRLFQEVPKRRNGSEGNITTRI  
RASETGSDEAIKSILEQAKRELQVQKTAEPAPSSASGSGNSDDAIRSILQQARREMEAQ  
QAALDPALKQAPLSQSDITILTPKLLSTSPMPTVSSYPPLAISLKKPSAAPEAGASALPN  
PPALKKEAQDAPGLDPQGAADCAQGVLRQVKNEVGRSGAWKDHWSAVQPERRNAASSEE  
AKAEETGGGKEKSGSGSGGSQPRAERSQLQGPSSEYWKWPSAESPYSQSSELSTGA  
SRSETPQNSPLPSSPIVPMSPKTPKPSVPPLTPEQYEVYMYQEVDTIELTRQVKEKLAKNG  
ICQRIFGEKVLGLSQGSVSDMLSRPKPWSKLTQKGREPFIRMQLWLNDELGGVLPVQGG  
QQGPVLHVSFTSLQDPLQQGCVSSESTPKTSASCSPAPESPMSSSESVKSLTELQQPCPP  
IEASKDSKPPEPSDPPASDSQPTTPLPLSGHSALSIQELVAMSPELDTYGITKRVKEVLT  
DNNLGQRLFGETILGLTQGSVSDLLARPKPWHKLSLKGREPFVRMQLWLNPNNVEKLM  
MKRMEKKAYMKRRHSSVSDSQCEPPSVGTEYSQGASPPQHQLKKPRVVLAPEEKEALK  
RAYQQKPYPSPKTIEDLATQLNLKTSTVINWFHNYRSRIRRELFIEEIAGSQGQAGASD  
SPSARSGRAAPSSEGDSCDGEATEGPGSADTEEPKSQGEAEREVPRPAEQTEPPPSGT  
PGPDDARDDDHEGGPVEGPGPLPSPASATATAAPAAPEDAATSAAAAPGEGPAAPSSAPP  
PSNSSSSAPRRPSSLQSLFGLPEAAGARDSRDNPLRKKKAANLNSIIHRLEKAASREEP  
IEWEF

>sp|Q8WYQ4|CV015\_HUMAN Uncharacterized protein C22orf15 OS=Homo sapiens GN=C22orf15 PE=2  
SV=1

MFIVKVMFGAGCSVLVNTSCLVNLTAHLRQKAGLPPDATIALLAEDGNLVSLEEDLKEGA  
SRAQTMGNSLLKERAIYVLVRIKGEDMASTRYESLLENLDDHYPELAEELRRLSGLSSV  
GHNWRKRMGTRGRHEQSPTSRRPKGPD

>sp|Q6UX04|CWC27\_HUMAN Peptidyl-prolyl cis-trans isomerase CWC27 homolog OS=Homo sapiens  
GN=CWC27 PE=1 SV=1

MSNIYIQEPPTNGKVLLKTTAGDIDIELWSKEAPKACRNFIQLCLEAYYDNTIFHRVVP  
FIVQGGDPTGTGSGGESIYGAPFKDEFHSRLRFNRRLVAMANAGSHDNGSQFFFTLGRA  
DELNNKHTIFGKVTGDTVYNMLRLSEVDIDDERPHNPHKIKSCEVLNFPFDDIIPREIK  
RLKKEKPEEEVKKLKPCKTNFSLLSFGEEAEVEENRVSQSMKGKSKSSHLLKDDP  
HLSSVPVVESEKGDAPDLVDDGEDESAEHDEYIDGDEKNLMRERIAKKLKKDTSANVKS  
A  
GEGEVEKKSVSRSEELRKEARQLKRELLAAKQKKVENAAKQAEKRSEEEAAPDGAVA  
EY  
RREKQKYEALRKQSKKGTREDQTLALLNQFKSKLTQAIETPENDIPETEVEDDEGWM  
SHVLQFEDKSRVKDASMQDSDTFEIYDPRNPVNKRREESKKLMREKKERR

>sp|O60397|COX7S\_HUMAN Putative cytochrome c oxidase subunit 7A3, mitochondrial OS=Homo  
sapiens GN=COX7A2P2 PE=5 SV=1

MLWNLLALHQIGQRTISTASHRHFKNKVPEKQKLFQEDDGIPLYLKGGIADALLHRATMI  
LTVGGTAYAIYQLAVASFPNKGVTSIIPAITWFTFIQLSMDQKSDK

>sp|Q9NRP2|COXM2\_HUMAN COX assembly mitochondrial protein 2 homolog OS=Homo sapiens  
GN=CMC2 PE=1 SV=1

MHPDLSPHLHTEECNVLINLLKECHKHNHILKFFGYCNDVDRELKCLKNEYVENRTKSR  
EHGIAMRKKLFNPPEESEK

>sp|Q8WTQ4|CP078\_HUMAN Uncharacterized protein C16orf78 OS=Homo sapiens GN=C16orf78 PE=2  
SV=1

MSEQQMDLKDLMPTKRKYMWKTAEDRRMSDLTCVLEWLERRQGKKKAPEKQKPKVVTVL  
KRNKKKEEKKGKGLMTARGGNRRDTETSQQALGKRFRKDAASYRSLYGVEQKGKHLMP  
GSYIKDGPKKSDDIKDAVDPESTQRPNPFRQSIVLDPMLQEGTFNSQRATFIRDWSNK  
MPDMAYERKLKSLMEKSTEPKMETMRMLKPEEVLSCRYLRLSKENIRTLCLKCKDAGMNV  
DIHPHMEEDIDAKKVFTGIPSMAL

>sp|Q6PH81|CP087\_HUMAN UPF0547 protein C16orf87 OS=Homo sapiens GN=C16orf87 PE=1 SV=1

MSATRAKKVKMATKSCPECDQVPVACKSCPCGYIFISRKLLNAKHSEKSPSTENKHEA  
KRRRTERVVRREKINSTVNKDLENKRKRSNSHSDHIRRGRGRPKSASAKKHEEEREKQEK  
EIDIYANLSDEKAFVFSVALAEINRKIINQRLIL

>sp|Q6UX73|CP089\_HUMAN UPF0764 protein C16orf89 OS=Homo sapiens GN=C16orf89 PE=1 SV=2

MASLGLLLLLLLTALPPLWSSSLPGLDTAESKATIADLILSALERATVFLEQRLPEINLD  
GMVGVRVLEEQLKSVREKWAQEPLLQPLSLRVGMLGEKLEAAIQRSLHYLKLSDPKYLRE  
FQLTLQPGFWKLPHAWIHTDASLVYPTFGPQDSFSEERSDVCLVQLLGTGTDSEPCGLS  
DLCRSLMTKPGCSGYCLSHQLLFFLWARMRGCTQGPLQSQDYINLFCANMMDLNRRAEA  
IGYAYPTRDIFMENIMFCGMSGFSDFYKLRWLEAILSWQKQEGCFGEPAEDEELSKAI  
QYQQHFSRRVKRREKQFPDSRVAQAGVQWRNLGSLQPLPPGFKQFSCLILPSSWDYRSV  
PPYLANFYIFLVETGFHHVAHAGLELLISRDPPTSGSQSVGL

>sp|Q9H693|CP095\_HUMAN Uncharacterized protein C16orf95 OS=Homo sapiens GN=C16orf95 PE=2  
SV=1

MRASRPPSPRRCHHHHEATGAASGAAAGGPGAGCVGLCRLALTPSAQDGRNSTFQTYKK  
EVCLPRHSMHPGPWAICCECQTRFGGRLPVSrVEAALPYWVPLSLRPRKQHPcWMHAAGT  
TAGGSAVMSACCPSSSSSRPPTRTSYRLLQRVCCPSAS

>sp|Q6UW02|CP20A\_HUMAN Cytochrome P450 20A1 OS=Homo sapiens GN=CYP20A1 PE=1 SV=1

MLDFAIFAVTFLALVGAVLYLPASQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVN  
LHERYGPVVSFWFGRRLVVSGLTVDVLKQHINPNKTSDFETMLKSLRLYQSGGGSVSEN  
HMRKKLYENGVTDSLKSNFALLKLSEELDKWLSYPETQHVPLSQHMLGFAMKSVTQMV  
MGSTFEDDQEVIRFQKNHGTWSEIGKGFLDGS�DKNMTRKKQYEDALMQLESVLRNIIK  
ERKGRNFSQHIFIDSLVQGNLNDQQILEDSDMIFSLASCIITAKLCTWAICFLTTSSEVQK  
KLYEINQVFGNGPVTPEKIEQLRYCQHVLCEVTRTAKLTPVSAQLQDIEGKIDRFIIPR  
ETLVLYALGVVLQDPNTWSPHKFDPDRFDELVMKTFSSLGFGSGTQECPELRFAYMVT  
VLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

>sp|Q9BV73|CP250\_HUMAN Centrosome-associated protein CEP250 OS=Homo sapiens GN=CEP250  
PE=1 SV=2

METRSPGLNNMKPQSLQLVLEEQLALQQQMAENQAASWRKLKNSQEAQQRQATLVRKLQ  
AKVLQYRSWCQELEKRLEATGGPIQQRWENVEEPNLDELLVRLEEEQQRCESLAEVNTQL  
RLHMEKADVNVKALREDVEKLTVDWSRDELMRKESQWQMEQEFFKGYLKGEHGRLLSL

WREVVTFRRHFLEMKSATDRDLMELKAEHVRLSGSLLTCCLRLTVGAQSREPNGSGRMDG  
REPAQLLLLLAKTQELEKEAHERSQELIQLKSQGDLEKAELQDRVTELSALLTQSQKQNE  
DYEKMIKALRETVEILETNHTELMEHEASLSRNAQEEKLSLQQVIKIDITQVMVEEGDNIA  
QSGSHENSLELDSSIFSQFDYQDADKALTLVRSVLTRRRQAVQDLRQQLAGCQEAVNLLQ  
QQHDQWEEEGKALRQRLQKLTGERDTLAGQTVDLQGEVDSLKERELLQKAREELRQQLE  
VLEQEAWRLLRVNVELQLQGDSAQQGKEEQEELHLAVRERERLQEMLMGLEAKQSESLS  
ELITLREALLESSHLEGELLRQEQTETVTAALARAESIAELSSSENTLKTEVADLRAAAVK  
LSALNEALALDKVGLNQQLLQLEENQSVCSRMEAAEQARNALQVDLAEAEKRREALWEK  
NTHLEAQLQKAAEAGAEQADLRDIQEEKEEIQKKLSESRHQEAAATTQLEQLHQEAKRQ  
EEVLARAVQEKEALVREKAALVRLQAVRDRQDLAEQLQGLSSAKELLESSLFEAQQQN  
SVIEVTKGQLEVQIQITVTQAKEVIQGEVRCCLKELDTERSQAEQERDAAARQLAQAEQEG  
KTALEQQKAAHEKEVNQLREKWEKERSWHQQELAKALESLEREKMELEMRLKEQQTEMEA  
IQAQREEERTQAESALCQMQLTEKERVSLLETLLQTQKELADASSQQLERLRQDMKVQKL  
KEQETTGITLQTQLQEAQRELKEAARQHRDDLAAEQESSSLLQDKMDLQKQVEDLKSQLV  
AQDDSQLVEQEVQEKLRQETQEYNRIQKELEREKASLTLSLMEKEQRLVLQEADSIQQ  
ELSALRQDMQEAQGEQKELSAQMELLRQEVKEKEADFLAQEAQLLEELEASHITEQQLRA  
SLWAQEAKAAQLQLRLRSTESQLEALAAEQPGNQAQAQALASLYSALQQALGSVCESR  
PELGGGDSAPSVWGLEPDQNGARSLFKRGPLLTAESAASALHKLHQDLWKTQQTRD  
VLRDQVQKLEERLTDTEAEKSQVHTELQDLQRQLSQNQEESKSWEGKQNSLESELMELHE  
TMAQLSRLRRAELQRMQAQGERELLQAACKENLTAQVEHLQAAVVEARAQASAAGILEED  
LRTARSALKLKNEEVESERERAQALQEQGELKVAQGKALQENLALLTQTLAEREEVETL  
RGQIQELEKQREMKAALLESLLDLKKRNQEVDLQEEQIQELEKCRSVLEHLPMAVQERE  
QKLTQVREQIRELEKDRETQRNVLEHQLLELEKKDQMIESQRGQVQDLKKQLVTLECLAL  
ELEENHHKMECQQKLIKELEGQRETQRVALTHLTLDLEERSQELQAQSSQIHDLESHSTV  
LARELQERDQEVKSQREQIEELQRQKEHLTQDLERRDQELMLQKERIQVLEDQRTRQTKI  
LEEDLEQIKLSLRERGRELTTRQQLMQERAEEGKGPSKAQRGSLEHMKLILRDKEKEVEC  
QQEHIHELQELKDQLEQQQLGGLHRKVGETSLLLSQREQEIVVLQQQLQEAREQGELKEQS  
LQSQLDEAQRALAQRDQELEALQEEQQQAQGGQEEVKEKADALQGALEQAHTLKERHGE  
LQDHKEQARRLEELAVEGRRVQALEEVLGDLRAESREQEKALLALQQQCAEQAEHEVE  
TRALQDSWLQAQAVLKERDQELEALRAESQSSRHQEEAARARAEALQEALGKAHAALQGK  
EQHLLQEAELSRSLEASTATLQASLDACQAHSRQLEEALRIQEGEIQDQDLRYQEDVQQL  
QQALQRDEELRHQEREQLLEKSLAQRVQENMIQEKQNLQEREEEEIRGLHQSVRELQ  
LTLAQKEQEILELRETQQRNNLEALPHSHKTSPMEEQSLKLDSEPRLQRELERLQAALR  
QTEAREIEWREKAQDLALSQAQTKASVSSLQEVAMFLQASVLERDSEQQRLQDELELTR  
ALEKERLHSPGATSTAEAGSRGEGVQLGEVSGVEAEPSPDGMEKQSWRQRLQHLQQA  
VRLRIDRSRLQRHNVQLRSTLEQVERERRKLKREAMRAAQAGSLEISKATASSPTQQDGRG  
QKNSDAKCVAEQKEVVLLQAQTLERKQKQDYITRSAQTSRELAGLHSHSLSHSLLAVAQ  
APEATVLEAETRRLDESLTQSLTSPGPVLLHPSPTTQAASR

>sp|Q9NR63|CP26B\_HUMAN Cytochrome P450 26B1 OS=Homo sapiens GN=CYP26B1 PE=1 SV=1  
MLFEGLDLVSAATLAACLVSVTLLAVSQQLWQLRWAATRDKSKLPKPGSGMGFPLIG  
ETGHWLLQSGGFQSSRREKYGNVFKTHLLGRPLIRVTGAENVRKILMGEHHLVSTEWPRS  
TRMLLGPNVTNSIGDIHRNKRKVFSKIFSHAELESYLPKIQLVIQDTLRAWSSHPAIN  
VYQEAQKLTFRMAIRVLLGFSIPEEDLGHLFEVYQQFVDNVFSLPVDLPFSGYRRGIQAR  
QILQKGLEKAIREKLQCTQGKDYLDALDLLIESSKEHGKEMTMQELKDGTLLELIFAAYAT



TASASTSLIMQLLKHPTVLEKLRDELRAHGILHSGGCPCEGTLRLDTLSGLRYLDCVIKE  
VMRLFTPISGGYRTVLQTFELDGFQIPKGWSVMYSIRDTHDTAPVFKDENVFDPDRFSQA  
RSEDKDGRFHYLPFGGGVVRTCLGKHLAKLFLKVLAVELASTSRFELATRTFPRITLVPVL  
HPVDGLSVKFFGLDSNQNEILPETEAMLSATV

>sp|P20813|CP2B6\_HUMAN Cytochrome P450 2B6 OS=Homo sapiens GN=CYP2B6 PE=1 SV=1  
MELSVLLFLALLTGLLLLLVQRHPNTHDRLPPGPRPLPLLGNLLQMDRRGLLSFLRFRE  
KYGDVFTVHLGPRPVVMLCGVEAIREALVDKAEAFSGRGKIAMVDPPFRGYGVIFANGNR  
WKVLRFRSVTTMRDFGMGKRSVEERIQEEAQCLIEELRKS GALMDPTFLFQSITANIIC  
SIVFGKRFHYQDQEFKMLNLFYQTFSLISSVFGQLFELFSGFLKYFPGAHRQVYKNLQE  
INAYIGHSVEKHRETLDPSAPKDLIDTYLLHMEKEKSNAHSEFSHQNLNLNTLSLFFAGT  
ETTSTTLRYGFLMLKYPHVAERYREIEQVIGPHRPPELHRAKMPYTEAVIYEIQRFS  
DLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPHYFEKPD AFNP DHFLDANGAL  
KKTEAFIPFSLGKRICLGEGIARAELFLFFTILQNFMSMASPVAPEDIDLTPQECGVGKI  
PPTYQIRFLPR

>sp|P10632|CP2C8\_HUMAN Cytochrome P450 2C8 OS=Homo sapiens GN=CYP2C8 PE=1 SV=2  
MEPFVVLVLCLSFMLLFSWLWRQSCRRRLPPGPTPLPIIGNMLQIDVKDICKSFTNFSKV  
YGPVFTVYFGMNPVVFHGYEAVKEALIDNGEEFSGRGNPISQRITKGLGISSNGKRW  
KEIRRFSLTTLRNFGMGKRSIEDRVQEEAHCLVEELRKTKASPCDPTFILGCAPCNVICS  
VVFQKRFDYKDQNFLTLMKRFNENFRILNSPWIQVCNNFPLLIDCFPGTHNKVLKNVALT  
RSYIREKVKEHQASLDVNNPRDFIDCFLIKMEQEKDNQKSEFNIE NLVGTVADL FVAGTE  
TTSTTLRYGLLLLLKHPEVTAKVQEEIDHVIGRHRSPCMQDRSHMPYTD AVVHEIQRYSD  
LVPTGVPHAVTTDTKFRNYLIPKGTTIMALLTSVLHDDKEFPNPNIFDPGHFLDKNGNFK  
KSDYFMPFSAGKRICAGEGLARMELFLFLTILQNFNLKSVDLKNLNTTAVTKGIVSLP  
PSYQICFIPV

>sp|Q9HB55|CP343\_HUMAN Cytochrome P450 3A43 OS=Homo sapiens GN=CYP3A43 PE=1 SV=1  
MDLIPNFAMETWVLVATSLVLLYIYGTHSHKLFKKLGIPGPTPLPFLGTILFYLRGLWNF  
DRECNEKYGEMWGLYEGQQPMLVIMDPDMIKTIVLVKECYSVFTNQMP L GPMGFLKSALSF  
AEDEEWKRIRTLSPAFTSVKFKEMVPIISQCGDMLVRS LRQEAENSKSINLK DFFGAYT  
MDVITGT LFGVNLD SLNNPQDPFLKNM KKLKLDFLDPFLLLISLFPFLTPVFEALNIGL  
FPKDVTHFLKNSIERMKESRLKDKQKHRVDFQQMIDSQNSKETKSHKALSDLELVAQSI  
IIIFAAYDTTSTLFPIMYELATHPDVQQKLQEEIDAVLPNKAPVTYDALVQMEYLD MVV  
NETLRLFPVVS RVTRVCKKDIEINGVFIPKGLAVMPVIYALHHPKYWTEPEKFCPERFS  
KKNKDSIDLRYRIPFGAGPRNCIGMRFALTNIKLAVIRALQNF SFK PCKETQIPLKLDNL  
PILQPEKPIVLKVHLRDGITSGP

>sp|P20815|CP3A5\_HUMAN Cytochrome P450 3A5 OS=Homo sapiens GN=CYP3A5 PE=1 SV=1  
MDLIPNLAVETWLLAVSLVLLYLGTRTHGLFKRLGIPGPTPLLLGNVLSYRQGLWKF  
DTECYKKYGKMWGTYEGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGF MKSAISL  
AEDEEWKRIRSLSPFTSGLKEMFPIIAQYGDVLVRNLRREAEGKGPVTLKDIFGAYS  
MDVITGTSFGVNIDSLNNPQDPFVESTKKFLKFGFLDPLFSIILFPFLTPVFEALNVSL  
FPKDTINFLSKSVNRMKKSRLNDKQKHRDLFLQLMIDSQNSKETESHKALSDLELAAQSI  
IFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDAVVQMEYLD MVV  
NETLRLFPVAIRLERTCKKDVEINGVFIPKGS MVVIPTYALHHPKYWTEPEEFRPERFS  
KKKDSIDPYIYTPFGTGPRNCIGMRFALNMKLALIRVLQNF SFK PCKETQIPLKLD TQG  
LLQPEKPIVLKVDSRDGTLSGE

>sp|P13584|CP4B1\_HUMAN Cytochrome P450 4B1 OS=Homo sapiens GN=CYP4B1 PE=1 SV=2

MVPSFLSLSFSSGLWASGLILVLGFLKLIHLLLRQTLAKAMDKFPGPPTHWLFGHALE  
IQETGSLDKVVSWAHQFPYAHPLWFGQFIGFLNIYEPDYAKAVYSRGDPKAPDVYDFFLQ  
WIGRGLLVLEGPKWLQHRKLLTPGFHYDVLKPYVAVFTESTRIMLDKWEKAREGKSFDI  
FCDVGHMALNTLMKCTFGRGDTGLGHRDSSYYLAVSDLTLLMQQLVSFQYHNDFIYWL  
PHGRRFLRACQVAHDHTDQVIRERKAALQDEKVRKKIQNRRHLDFLDILLGARDEDDIKL  
SDADLRAEVDTFMFEGHDTTSGISWFLYCMALYPEHQHRCREEVREILGDQDFFQWDDL  
GKMTYLTMCIKESFRLYPPVPQVYRQLSKPVTVDGRSLPAGSLISMHIYALHRNSAVWP  
DPEVFDLSLRFSTENASKRHPFAFMPFSAGPRNCIGQQFAMSEMKVVTAMCLLRFESLDP  
SRLPIKMPQLVLRSKNGFHLHLKPLPGSGK

>sp|Q08477|CP4F3\_HUMAN Docosaehexaenoic acid omega-hydroxylase CYP4F3 OS=Homo sapiens  
GN=CYP4F3 PE=1 SV=2

MPQLSLSSSLGLWPMAASPWLLLLLVGASWLLARILAWTYTFYDNCCRLRCFPQPPKRNWF  
LGHLGLIHSSEGLLYTQSLACTFGDMCCWWVGPWHAIVRIFHPTYIKPVLFAAAIVPK  
DKVFYSFLKPWLGDGLLSAGEKWSRHRMLTPAFHFNILKPYMKIFNESVNIMHAKWQL  
LASEGSARLDMFEHISLMTDSLQKCVSFDSDHCQEKPEYIAAILELSALVTKRHQQIL  
LYIDFLYYLTPDQGRFRACRLVHDFTDAVIQERRRTLPSQGVDDFLQAKAKSKTLDIFD  
VLLSKDEDGKKLSDEDIKAEADTFMFEGHDTASGLSWVLYHLAKHPEYQERCQEVQE  
LLKDREPKEIEWDDLAQLPFLTMCIKESRLHPPVPAVSRCTQDIVLPDGRVIPKGIIC  
LISVFGTHHNPVWPDEVYDPFRFDPNIKERSPLAFIPFSAGPRNCIGQAFAMAEMKV  
VLGLTLLRFRVLPDHTEPRRKPELVLAEGGLWLRVEPLS

>sp|Q8N118|CP4X1\_HUMAN Cytochrome P450 4X1 OS=Homo sapiens GN=CYP4X1 PE=2 SV=1

MEFSWLETRWARPFYLAFFVCLALGLLQAIKLYLRRQRLRLRPFAPPTHWFLGHQKF  
IQDDNMEKLEEIIIEKYPRAFPFWIGPFQAFFCIYDPDYAKTLLSRTDPKSQYLQKFSPL  
LGKGLAALDGPKWFQHRRLTPGFHFNILKAYIEVMAHSVMMMLDKWEKICSTQDTSVEV  
YEHINSMLDIIMKCAFSKETNCQTNSTHDPYAKAIFELSKIIFHRLYSLLYHSDIIFKL  
SPQGYRFQKLSRVLNQYTDIIQERKKSLQAGVKQDNTPKRKYQDFLDIVLSAKDESGSS  
FSDIDVHSEVSTFLLAGHDTLAASISWILYCLALNPEHQERCREEVRGILGDGSSITWDQ  
LGEMSYTMCIKETCRLIPAVPSISRDLKPLTFPDGCTLPAGITVVLISWGLHHNPAVW  
KNPKVFDPLRFSQENSQDRHPYAYLPFSAGSRNCIGQEFAMIELKVTIALILLHFRVTPD  
PTRPLTFPNHFIKPKNGMYLHLKKLSEC

>sp|Q86WR6|CQ064\_HUMAN Uncharacterized protein C17orf64 OS=Homo sapiens GN=C17orf64 PE=2  
SV=2

MEASDGQGGEGDKPLEQVTNVSCLETSSASPARDSLMRHAKGLDQDTFKTCKEYLRPLK  
KFLRKLHLPRDLPQKKKLKYMKQSLVVLGDHINTFLQHYCQAWKHWKMLWRFISLFS  
ELEAKQLRRLYKYTKSSQPAKFLVTFCASDAPERSLLADREDSLPKLCHAWGLHSNISGM  
KERLSNMQTPGQGPLGQPRSQDHVKKDSLRELSQKPKLKRKRIKEAPETPETEP

>sp|B2RV13|CQ105\_HUMAN Uncharacterized protein C17orf105 OS=Homo sapiens GN=C17orf105  
PE=2 SV=1

MNNSLDYLAYPVIVSNHRQSTTFRKKLDFGHYVSHKNRIQIAKPTVDTKPPVAHTNHILK  
LSKLQGEQKKINKIEYENKQLCQKIANAHRGPAKVDCWNEYFSKSLNRETRNRELVRITM  
ENQGILKRLVDRKPHYDRRASEIDWQNSRRYIRNTTRYLLSQNE

>sp|Q96B23|CRO25\_HUMAN Uncharacterized protein C18orf25 OS=Homo sapiens GN=C18orf25 PE=1  
SV=2

MKMEEAVGKVEELIESEAPPKASEQETAKEEDGSVELESQVQKDGVADSTVISSMPCLLM  
ELRRDSSESQLASTESDKPTTGRVYESDSSNHCMLSPSSSGHLADSDLSSAEENEPSQA  
ETAVEGDPSPGVSGATVGRKSRRSRSESETSTMAAKKNRQSSDKQNGRVAKVKGHRSQKHK  
ERIRLLRQKREAAARKKYNLLQDSSTSDSLTCDSTSSSDDEEVSGSKTITAEIPDG  
PPVVAHYDMSDTNSDPEVVNVNLLAAAVVQEHSNSVGGQDTGATWRTSGLLEELNAEAG  
HLDPGFLASDKTSGNAPLNEEINIASSDSEVEIVGVQEHARCVHPRGGVIQSVSSWKHGS  
GTQYVSTRQTQSWTAVTPQQTWASPAEVVDLTLEDSRRKYLL

>sp|J3KSC0|CR064\_HUMAN Putative uncharacterized protein encoded by LINC01387 OS=Homo sapiens GN=LINC01387 PE=5 SV=1

MVPAPPFLGVLENPVPQWDLNILGSIRIRVSHTEVQGGSSRSPEALRKESLEVEWTLVL  
LAIPPRIQPSQQDGGPPKCCDLLRAALLGRHCPLCVPAGEVFSQKRDNEQDRSEFIGQTL  
KLLVKRNVSELESCR

>sp|Q9P021|CRIPT\_HUMAN Cysteine-rich PDZ-binding protein OS=Homo sapiens GN=CRIPT PE=1 SV=1

MOVCEKCEKLGTVITPDTWKDGARNTTESGGRKLNENKALTSKKARFDPYGKNKFSTCRI  
CKSSVHQPGSHYCGCAYKKGICAMCGKKVLDTKNYKQTSV

>sp|Q9BUF7|CRUM3\_HUMAN Protein crumbs homolog 3 OS=Homo sapiens GN=CRB3 PE=1 SV=3

MANPGLGLLLALGLPFLARWGRAWGQIQTTSANENSTVLPSTSSSDGNLRPEAITAI  
IVVFSLLAALLAVGLALLVRKLREKRQTEGTYRPSSEEQVGARVPPTPNLKLPPPEERLI

>sp|P02511|CRYAB\_HUMAN Alpha-crystallin B chain OS=Homo sapiens GN=CRYAB PE=1 SV=2

MDIAIHPWIRPPFFHSPSRLFDQFFGEHLESDFPTSTSLSPFYLRPPSFLRAPSW  
FDTGLSEMRLEKDRFSVNLDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFISREFHR  
KYRIPADVPLTITSSSLSDGVLTVNGPRKQVSGPERTIPITREEKPAVTAAPKK

>sp|Q9Y2S2|CRYL1\_HUMAN Lambda-crystallin homolog OS=Homo sapiens GN=CRYL1 PE=1 SV=3

MASSAAGCVVIVGSGVIGRSWAMLFASGGFQVKLYDIEQQIRNALENIRKEMKLEQAG  
SLKGSLSVEEQSLISGCPNIQEAVEGAMHIQECVPEDLELKKKIFAQLDSIIDRVILS  
SSTSCLMPSKLFAGLVHVKQCIVAHVPNPPYYIPLVELVPHPETAPTVDRTALMKKIG  
QCPMRVQKEVAGFVLNRLQYAIISEAWRLVEEGIVSPSDLDLVMSEGLGMRYAFIGPLET  
MHLNAEGMLSICYDRYSEGIKHVLQTFGPIPEFSRATAEKVNQDMCMKVPDDPEHLAARRQ  
WRDECLMRLAKLKSQVQPQ

>sp|Q6RUI8|CS048\_HUMAN Uncharacterized protein C19orf48 OS=Homo sapiens GN=C19orf48 PE=4 SV=1

MTVLEAVLEIQAITGSRLLSMVPGPAPPPGSCWDPTQCTRWLLSHTPRRRWISGLPRAS  
CRLGEEPPPLPYCDQAYGEELSIRHRETAWLSRTDTAWPGAPGVKQARILGELLV

>sp|Q9NVV2|CS073\_HUMAN Putative uncharacterized protein C19orf73 OS=Homo sapiens GN=C19orf73 PE=1 SV=2

MRLKVGFGGGCFRKDALCLEGGVSARWARAPHSAPLRPPRELHAAPPPATPTQTVVRPA  
GFPRRTRLMVRSAPPTQRPPTGSGCVSGLWRKGLGLRPQTLLRVGSVVLSSAPALRPRLG  
PCLRPPPSD

>sp|Q9Y600|CSAD\_HUMAN Cysteine sulfinic acid decarboxylase OS=Homo sapiens GN=CSAD PE=1 SV=2

MADSEALPSLAGDPVAVEALLRAVFGVVVDEAIQKGTSVSQKVCWEKEPEELKQLLDLEL  
RSQGESQKQILERCRAVIRYSVKTGHPFFNQLFSGLDPHALAGRIITESLNTSQYTYEI  
APVFVLMEEEVLRKLRLALVGWSSGDGIFCPGGSISNMYAVNLARYQRYPDCKQRGLRTL

PLALFTSKECHYSIQKGA AFLGLGTD SVRVVKAD ERGKMVPEDLERQIGMAEAE GAVPFL  
VSATSGTTVLGA FDFLEAIADVCQRHGLWLHVDAAWGGSVLLSQTHRHLLDGIQRADSV  
WNPHKLLAAGLQCSALLLQDTSNLLKRCHGSQASYLFQQDKFYDVALDTGDKVVQCGRRV  
DCLKLWLMWKAQGDQGLERRIDQAFVLARYLVEEMKKREGFELVMEPEFVNVCFWFVPPS  
LRGKQESPDYHERLSKVAPVLKERMVKEGSM MIGYQPHGTRGNFFRVVANSALTCADM  
D FLLNELERLGQDL

>sp|P15509|CSF2R\_HUMAN Granulocyte-macrophage colony-stimulating factor receptor subunit  
alpha OS=Homo sapiens GN=CSF2RA PE=1 SV=1

MLLLVTSLLLCELPHPAFLLIPEKSDLRTVAPASSLNVRFD SRTMNL SWDCQENTTF SKC  
FLTDKKNRVVEPRLSNNECSCTFREICLHEGVTFEVHVNTSQRGFQQKLLYPNSGREGTA  
AQNFSCFIYNADLMNCTWARGPTAPRDVQYFLYIRNSKRRREIRCPYYIQDSGTHVGCHL  
DNLSGLTSRNYFLVNGTSREIGIQFFDSLLDTKKIERFNPPSNVTVRCNTTHCLVRWKQP  
RTYQKLSYLDQYQLDVHRKNTQPGTENLLINVSGDLENRYNFPSSSEPRAKHSVKIRAAD  
VRILNWSSWSEAEIEFGSDGNLGSVYIYVLLIVGTLVCGIVLGLFKRFLRIQRLFPVP  
QIKDKLNDNHEVEDEIIWEEFTPEEGKGYREEVLTVEIT

>sp|P04141|CSF2\_HUMAN Granulocyte-macrophage colony-stimulating factor OS=Homo sapiens  
GN=CSF2 PE=1 SV=1

MWLQSLLLGTVACSI SAPARSPSPSTQPWEHVNAIQEARLLNLSRD TAAEMNETVEI  
SEMFDLQEPTCLQTRLELYKQGLRGSLTKLKGPLTMMASHYKQHC PPTPETSCATQIITF  
ESFKENLKD FLLVIPFDCWEPVQE

>sp|P68400|CSK21\_HUMAN Casein kinase II subunit alpha OS=Homo sapiens GN=CSNK2A1 PE=1  
SV=1

MSGVPSPRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGRGKYSEVFEAINIT  
NNEKVVKILKPVKKKIKREIKILENLRGGPNIITLADIVKDPVSRTPALVFEHVNTD  
FKQLYQTLTDYDIRFYMYEILKALDYCHSMGIMHRDVPHNV MIDHEHRKLRLIDWGLAE  
FYHPGQEYNVRVASRYFKGPELLVDYQMYDYS LDMWSLGCMLASMI FRKEPFFHGHNDYD  
QLVRIAKVLGTEDLYDYIDKYNIELDPRFNDILGRHSRKRWERFVHSENQHLVSPEALDF  
LDKLLRYDHQSRLTAREAMEHPYFYT VVKDQARMGSSSMPGGSTPVSSANMSGISSVPT  
PSPLGPLAGSPVIAAANPLGMPVPAAGAQQ

>sp|Q8WXD9|CSKI1\_HUMAN Caskin-1 OS=Homo sapiens GN=CASKIN1 PE=1 SV=1

MGKEQELVQAVKAEDVGTAQRLLQRP RP GKAKLLGSTKKINVNFQDPDGF SALHHAALNG  
NTELSLLLEAAVDIKDNKGM RPLHYAAWQGRKEPMKLV LKAGSAVNIPSDEGHIPLH  
LAAQHGHYDVSEMLLQHQSNPCMV DNSGKTPLDLACEFGRVG VVQLLLSSNMCAALLEPR  
PGDATDPNGTSPLHLAAKNGHIDIIRLLQAGIDINRQTKSGTALHEAALCGKTEVVRLL  
LDSGINAHVRNTYSQTALDIVHQFTTSQASREIKQLLREASAALQVRATKDYCNNDLTS  
LNVKAGDIITVLEQHPDGRWKGCIHDNRTGNDRVGYFPSSLGEAIVKRAGSRAGTEPSLP  
QGSSSSGSPAPPEEIWVLRKPFAGGDRSGSISGMAGGRGSGGHALHAGSEG VKLLATVLS  
QKSVSSESGPDSPAKPPEGSAGVARSQPPVAHAGQVYGEQPPKKLEPASEGKSSEAVSQW  
LTAFQLQLYAPNFISAGYDLPTISRMT PEDLTAIGVTKPGHRKKIAAEISGLSIPDWLPE  
HKPANLAVWLSMIGLAQYYKVLVDNGYENIDFITDITWEDLQEIGITKLGHQKMLAVR  
KLAELQKA EYAKYEGGPLRRKAPQSLEVMAIESPPPEPTPADCQSPKMTTFQDSELSDE  
LQAAMTGPAEVGPTTEKPSSHLPTPRATTRQDSSLGGRARHMSSSQELLGDGPPGPSSP  
MSRSQEYLLDEGPAPGTPPREARPGRHGS IKRASVPPVPGKPRQVLP PGTSHFTPPQTP  
TKTRPGSPQALGGPHGPAPATAKVKPTQLLPPTERPMSPRSLPQSPTHRGFAYVLPQPV

EGEVGPAAPGPAPPPVPTAVPTLCLPPEADAEPGRPKKRAHSLNRYAASDSEPERDELLV  
PAAAGPYATVQRRVGRSHSVRAPAGADKNVNRSQSFAVRPRKKGPPPPPPKRSSSALASA  
NLADEPVPDAEPEDGLLVRAQCRRASDLAGSVDTGSAGSVKSIAMLELSSIGGGGAA  
RRPPEGHPTPRPASPEPGRVATVLASVKHKEAIGPGGEVNNRRRTLSGPVTGLLATARRG  
PGESADPGPFVEDGTGRQRPRGPSKGEAGVEGPPLAKVEASATLKRRIRAKQNQQENVKF  
ILTESDTVKRRPKAKEREAGPEPPPPPLSVYHNGTGTVRRRPASEQAGPELPPPPPAEP  
PPTDLAHLPLPPPEGEARKPAKPPVSPKPVLTQPVPKLQGSPTPTSCKVPLPGPGSPEV  
KRAHGTPPPVSPKPPPPPTAPKPVKAVAGLPSGSAGSPAPSPARQPPAALAKPPGTPPS  
LGASPAKPPSPGAPALHVPAPKPPRAAAAAAAAAAPPAPPEGASPGDSARQKLEETSACL  
AAALQAVEEKIRQEDAQGPRDSAAEKSTGSILDDIGSMFDDLADQLDAMLE

>sp|Q5W186|CST9\_HUMAN Cystatin-9 OS=Homo sapiens GN=CST9 PE=2 SV=1

MSSPQRRKAMPWALSLLMGFQLLVTYAWCSEEMGGNNKIVQDPMFLATVEFALNTFNV  
QSKEEHAYRLLRVLSSWREDSMDRKWRGKMVFSMNLQLRQTVCRKFEDDIDNCPFQESLE  
LNNVRQGTSFPQVHSCGCCMCGVGTGAADKAIPRDKGK

>sp|Q05048|CSTF1\_HUMAN Cleavage stimulation factor subunit 1 OS=Homo sapiens GN=CSTF1  
PE=1 SV=1

MYRTKVLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMEN  
DDTAVQYAIGRSDTVAPGTGIDLEFDADVQTMSEASEYETCYVTSHKGPCRVATYSRDG  
QLIATGSADASIKILDTERMLAKSAMPIEVMMNETAQNMENHPVIRTLYDHDVDEVTCLA  
FHPTEQILASGRDYTLKLFYDYSKPSAKRAFKYIQEAEMLRISIFHPSGDFILVGTQHPT  
LRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGCIKLWDGVSNRCTTF  
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGRTLVRVTGAGLSGRQVHRTQAV  
FNHTEDYVLLPDERTISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFR  
ARFWYRRSTTD

>sp|Q12996|CSTF3\_HUMAN Cleavage stimulation factor subunit 3 OS=Homo sapiens GN=CSTF3  
PE=1 SV=1

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FPSSGRFWKLYIEAEIKAKNYDKVEKLFQRCLMKVLHIDLWKCYLSYVRETKGKLPSYKE  
KMAQAYDFALDKIGMEIMSYQIWWDYINFLKGVEAVGSAENQRITAVRRVYQRGCVNPM  
INIEQLWRDYNKYEEGINIHLAKKMIEDRSRDYMNARRVAKEYETVMKGLDRNAPSVPQQ  
NTPQEAQQVDMWKYIQWEKSPLRTEDQTLITKRVMFAYEQCLLVLGHHPIWYEEAAQY  
LEQSSKLLAEKGDMNNAKLFSDEAANIYERAISTLLKKNMLLYFAYADYEESRMKYEVH  
SIYNRLAIEDIDPTLVYIYQMKFARRAEGIKSGRMIFKKAREDTTRHHVYVTAALMEY  
YCSKDKSVAFKIFELGLKKYGDIPYVLAYIDYLSHLNEDNNTRVLFERVLTSGLPPEK  
SGEIWARFLAFESNIGDLASILKEKRRFTAFKEEYEGKETALLVDRYKFMDLYPCSASE  
LKALGYKDVSRAKLAAIIPDPVVAPSIVPVLKDEVDRKPEYKPDQTQMIQPRHLAPP  
GLHPVPGGVFPVPPAAVVLMLKLLPPPICFQGPFVQVDELMEIFRRCKIPNTVEEAVRIIT  
GGAPELAVEGNPVESNAVLTKAVKRPNEDSDEDEEKGAVVPPVHDIYRARQQKRIR

>sp|Q9H4D0|CSTN2\_HUMAN Calsyntenin-2 OS=Homo sapiens GN=CLSTN2 PE=1 SV=2

MLPGRLCWVPLLLALGVGSGGGGDSRQRRLLAAKVNKHKPWIETSYHGVITENNDTVI  
LDPPLVALDKDAPVPFAGEICAFKIHGQELPFEAVVLNKTSGEGRRLAKSPIDCELQKEY  
TFIIQAYDCGAGPHETAWKSKSHKAVVHIQVKDVNEFAPTFKEPAYKAVVTEGKIYDSILQ  
VEAIDEDCSPQYSQICNYEIVTTDVPFAIDRNGNIRNTEKLSYDKQHQYEILVTAYDCGQ  
KPAAQDTLVQVDVKPVCKPGWQDWTKRIEYQPGSGSMPLFPSIHLETCDGAVSSLQIVTE

LQTN YIGK GCDRETYSEKSLQKLCGASSGIIDLLPSPSAATNWTAGLLVDSSEMIFKFDG  
RQGA KVPD GIVPKNLTDQFTITMWMKHGSPSPGVRAEKETILCNSDKTEMNRHHYALYVHN  
CRLVFLLRKDFDQADTFRPAEFHWKLDQICDKEWHYYVINVEFPVVTLYMDGATYEPYLV  
TNDWPIHPSHIAMQLTVGACWQGGEVTKPQFAQFFHGSLASLTIRPGKMESQKVISCLQA  
CKEGLDINSLES LGQGIKYHFNPSQSILVMEGDDIGNINRALQKVSYINSRQFPPTAGVRR  
LKVSSKVQCFGEDVCISIPVDAYVMVLQAIEPRITLRTDHFWRPAAQFESARGVTLFP  
DIKIVSTFAKTEAPGDVKTTPKSEVLEMLHNLDFCDILVIGGDLDPQECLELNHSEL  
HQRHL DATNSTAGYSIYGVGSM SRYEQVLHHIRYNWRPASLEARRFRIKCELNTRYTS  
NEFNLEVSILHEDQVSDKEHVNLIVQPPFLQSVHHPESSSIQHSSVVP SIATVVIIS  
VCMLVFV VAMGVYRVRIAHQHFIQETEA AKESEMDWDDSALTITVNPMEKHEGPGHGEDE  
TEGEEEEEEAEEMSSSSGSDDEEEEEEGMGRGRHGQNGARQAQLEWDDSTLPY

>sp|Q9BQM9|CT144\_HUMAN Uncharacterized protein C20orf144 OS=Homo sapiens GN=C20orf144  
PE=2 SV=1

MGNYS SHKRTKAPKQARKERPADM KAWK SFLNHLTRKKPATRIVLILPLDKRQPLANA  
GQRIDYASGAGLGSPAAPRLRGAGEGSEREPRMPVLLLLRRQEARRPEEGARAALSWPR  
LLSRFRSPGKAPREAGPAEEQPRKRCRCRPRQL

>sp|Q9UGB4|CT187\_HUMAN Putative uncharacterized protein C20orf187 OS=Homo sapiens  
GN=C20orf187 PE=4 SV=1

MDILLDLGWHFSNCD ETFYSPVQNT EGDLLFFDHNLKTDRGHVERSVM D

>sp|Q5TEA3|CT194\_HUMAN Uncharacterized protein C20orf194 OS=Homo sapiens GN=C20orf194  
PE=1 SV=1

MDVYPPRRQGLPRARSPGGSSRGSPSVSCSRLRQVQSILTQSSKSRPDGILCILGIDSR Y  
NEGCRELANYLLFGLYNQNTSDFEKTGFSEEVLDDVILIKSDSVHLYCNPVNFYLLPY  
VAHWRLHFHCMTENEYEDEEAAEEFKITSFVDMVRDCSRIGIPYSSQGHLQIFDMFVVE  
KWPIVQAFALEGIGGDGFFTMYELQDVSLNLWNVYSKMDPMSLESLLSDDLVAFEHQWT  
SFFANFDTEIPFELLESESQAGEPFRSYFSHGMISSHITENSPNRQPFVLFGNHSTREN L  
NAGNFNFPSEGLVRSTGPGGSFAKHMVAQCVSPKGPLACSR TYFFGATHVPYLG GDSKL  
PKKTEQIRLLSQIYAAVIEAVLAGIACYAKTSSLTKAKEVAEQTLGSGLDSFELIPFKAA  
LRSKMTFHIHAVNNQGRIVPLDSEDSLSFVKTACMAVYDIPDLLGGNGCLGSVVFSESFL  
TSQILVKEKDGTVT TETSSVVLTA AVPRFCSWLVEDNEVKLSEKTQQAVRGDESFLGTYL  
TGGE GAYLYSSNLQSWPEEGNVHFFSSGLLFSHCRHRSIIISKDHMNSISFYDGDSTSTV  
AALLIDFKSLLPHLPVHFHGSSNFLMIALFPKSKIYQAFYSEVFS LWKQD NSGISLKV  
IQEDGLSVEQKRLHSSAQKLSALSQPAGEKRSSLKLLSAKLPELDWFLQHFAISSISQE  
PVMRTHLPVLLQQA EINTTHRIESDKV IISIVTGLPGCHASELCAFLVTLHKECGRWMVY  
RQIMDSSECFHAAHFQRYLSSALEAQNRSARQSAYIRKKTRLLVVLQGYTDVIDVVQAL  
QTHPDSNVKASFTIGAITACVEPMSCYMEHRFLFPKCLDQCSQGLVSNVFTSHTTEQRH  
PLLVLQLSLIRAANPAAAFILAENGIVTRNEDIELILSENSFSSPEMLRSRYLMYPGWYE  
GKLNAGSVYPLMVQICVWFG RPLEKTRFVAKCKAIQSSIKSPFSGNIYHILGKVKFSDS  
ERTMEVCYNTLANSLSIMPVLEGPTPPPDSKSVSQDSSGQ QECYLVFIGCSLKEDSIKDW  
LRQSAKQKPQRKALKTRGMLTQQEIRSIHVKRHLEPLAGYFYNGTQFVNFFGDKTDFHP  
LMDQFMNDYVEEANREIEKYNQELEQQEYHDLFELKP

>sp|PODMV0|CT457\_HUMAN Cancer/testis antigen family 45 member A7 OS=Homo sapiens GN=CT45A7  
PE=3 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSL IAGSAMSKEKKLMT

GHAIPPSQLDSQIDDFTGFSKDGMMQKPGSNAPVGGNVTSSFSGDDLECRETASSPKSQR  
EINADIKRKLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFFESI IKEAARCMRRDFVKH  
LKKKLKRFMI

>sp|Q8WYA6|CTBL1\_HUMAN Beta-catenin-like protein 1 OS=Homo sapiens GN=CTNNB1 PE=1 SV=1

MDVGELLSYQPNRGTKRPRDDEEEQKMRRKQTGTREGRYREEEMTVVEEADDDKKRLL  
QIIDRDGEEEEEEPLDESSVKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDI  
IQEMHVVATMPDLYHLLVELNAVQSLLGLLGHDNTDVSIAVVDLLQELTDIDTLHESEEG  
AEVLIDALVDGQVVALLVQNLRLDES VKEEADGVHNTLAIVENMAEFRPEMCTEGAQQG  
LLQWLLKRLKAKMPFDANKLYCEVLAILLQNDENRELLGELDGIDVLLQQLSVFKRHN  
PSTAEQEEMMENLFDLCSCLMLSSNRERFLKGEGLQLMNLMLREKKISRSSALKVLDHA  
MIGPEGTDNCHKFVDILGLRTIFPLFMKSPRKIKKVGTTKEHEEHVCSILASLLRNLRG  
QQRTLLNKFTENDSEKVDRLMELHFYKLGAMQVADKKIEGEKHDVRRGEIIDNDTEEE  
FYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSSIKIVRHIIKEYAENI  
GDGRSPEFRENEQKRILGLENF

>sp|Q9Y5B0|CTDP1\_HUMAN RNA polymerase II subunit A C-terminal domain phosphatase OS=Homo sapiens GN=CTDP1 PE=1 SV=3

MEVPAAGRVPAGAPTAAVAERVCPGPAPLRLLLEWRVAAGAAVRIGSVLAVFEAAASAQS  
SGASQSRVASGGCVRPARPERRLRSERAGVVRELCAQPGQVAVGAVLVRLEGCSHPVVM  
KGLCAECGQDLTQLQSKNGKQVPLSTATVSMVHSVPELMVSSEQAELGREDQQLHRN  
RKLVLMDLDQTLIHTTEQHCQMSNKGIFHFQLGRGEPMLHTRLRPHCKDFLEKIAKLY  
ELHVFTFGSRLYAHTIAGFLDPEKKLFSHRILSRDECIDPFSKTGNLRNLFPCGDSMVC  
IDDREDVWKFAPNLITVKKYVYFQGTGDMNAPPGSRESQTRKKVNHSRGTEVSEPSPPVR  
DPEGVTQAPGVEPSNGLEKPAELNGSEAATPRDSPRPGKPDERDIWPPAQAPTSSQELA  
GAPEPQGSCAQGGRVAPGQRPAAQATGTDLDFDLSSDSESSSESEGTKSSSSASDGESEG  
KRGRQKPKAAPEGAGALAQSSLEPGRPAAPSLPGEAEPGAHAPDKEPELGGQEEGERDG  
LCGLNGCADRKEAETESQNSLSGVTAGESLDQSMEEEEEDTDEDDHLIYLEEILVRV  
HTDYYAKYDRYLNKEIEEAPDIRKIVPELKS KVLADVAIIFSGLHPTNFP IEKTRHYHA  
TALGAKILTRLVSPDAPDRATHLIAARAGTEKVLQAQECGHLHVNPDLWSCLERWDK  
VEEQLFPLRDDHTKAQRENSPAAPFDREGVPPTALFHPMPVLPKAPGPEVRIYDSNTGK  
LIRTGARGPPAPSSSLPIRQEPSSFRAVPPPQPMFGEELPDAQDGEQPGPSRRKRQPSM  
SETMPLYTLCKEDLESMDKEVDDILGEGSDSDSEKRRPEEQEEEPQPRKPGTRRERTLG  
APASSERSAAGGRGPRGHRKRLNEEDAASESSRESSNEDEGSSEADEMAKALEAELNDL  
M

>sp|Q9HC47|CTGE1\_HUMAN Cutaneous T-cell lymphoma-associated antigen 1 OS=Homo sapiens GN=CTAGE1 PE=2 SV=1

MFVVISLHNCVVISFVLFLFGGNFIQNFYLPQNYIDQFLLTSFPTFTSVGVLIIVLVLCS  
AFLLLWQGEVNL

>sp|Q96RT6|CTGE2\_HUMAN cTAGE family member 2 OS=Homo sapiens GN=CTAGE1 PE=1 SV=2

MRPDSPHPYGFPWELVIRAAVAGFFAVLFLWRSFRSVTSRLYVRREKKFAVALSGLIEEKC  
KLEKFSVLVQKEYEGYEVESLKNASFEKEATEAQSLATCEKLNRFNSELVHEILCLEK  
ELKEEKSKHSEQNELMADISKRIQSLEDESKSLKSQVAEAKMTFKRFQANEERLEIEIQD  
AWKENSELQESQKQLQEAEVWKEQVSELIKQKRTFEDSKVHAEQVLNDKENHIKTLTER  
LLKMKDGVAMLEEDVTDNLELMNSESEDGAYLDNPPKGALKKLIHAAKLNASLKTLE  
GERNQIYIQLSEVDKTKHEELTEHIKNLQTEQASLQSENTHFESENQKLQKLVMTELYQ

ENEMKLYRKLIIVEEKCRLKEEKLKSKVDEMISHATEELETYRKRAKDLKEFEKTIHFYQK  
KIILHEKKAHDNWSAAWTAERNLNDLRKENAHRQKLTEIEFKIKLLEKDPYGLDVPNTA  
FGRQHSYPYGPSPLGWPSSETRASLYPPTLLEGPLRLSPLLPRGGGRSGRPGNPPDHQIT  
KERGESSCDRLTDPHRAPSDAGPLAPPWEQDYRMMFPPPGQSYPDALPPQRQDRFYSNC  
ARLSGPAELRSFNMPSLDKMDGSMPSMESSRNDTKDNLGNLKVDPSSSLPAENEATGPGF  
VPPPLAPIRGLLFPVDTRGPFIRRGPPFPPPPPGTVFGASPDYFSPRDVPGPPRAPFAMR  
NVYLPRGFLPYRPPRAPFFPPAPT

>sp|A4D2H0|CTGEF\_HUMAN cTAGE family member 15 OS=Homo sapiens GN=CTAGE15 PE=2 SV=1

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AAEEARSLEATCEKLNRSNSELEDEILCLEKDLKEEKSXHSQQDELMADISKSIQSELEDE  
SKSLKSQIAEAKIICKTFKMSEERRAIAIKDALNENSQLQTSQKQLFQQEAEVWKGQVSE  
LNKQKITFEDSKVHAEQVLNDKENHIKTLTGHLPMMDQAAVLEEDTDDDNLELEVNSQ  
WENGANLDDPLKGALKKLIHAAKLNVSLSKSEGERNHIIQLSEVDKTEELTEHIKNLQ  
TQQASLQSENIYFESENKQLKQKLKIMTEFYQENEMKLYRKLTVEENYRIEEEEKLSRVE  
EKLSRATEQLETYRKLAKDLEELERTVHFYQKQVISYEKRGHDNWLAAARTAERNLSDLR  
KENAHNKQKLTETELKFELLEKDPNALDVSNTAFGREHAPNGPAPLGGRSSETRAFLSPQ  
TLLEDPLGLSPVLPEGGGRGPRGPNLDHQITNERGEPSCDRLTDPHRAPSDTGSLSPP  
VEQDCKMMFPPPGQSYPDALPPQREDRFYSNSERLSGSAEPRSFKMTSLDKMDGSMPS  
MESSRNDKADDLGNLNPVDPSSSLPAENEATGPGFIPPLAPVRGPLFPVDTRGPFMRGPP  
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>sp|Q43310|CTIF\_HUMAN CBP80/20-dependent translation initiation factor OS=Homo sapiens  
GN=CTIF PE=1 SV=1

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WTADCSEPLDSSCSFSRGRAPPQNGSKDNSLDMLGTDIWAANTFDSFSGATWDLQPEKL  
DFTQFHRKVRHTPKQPLPHIDREGCGKGLKEDGDGINLNDIEKVLPAWQGYHPMPHEVEI  
AHTKKLFRRRRNRDRRQQRPPGGNKPQQHGDHQPSSAKHNRDHQKSYQGSAPHPSGRPT  
HHGYSQNRRWHHGNMKHPPGDKGEAGAHNAKETMTIENPKLEDTAGDTGHSSLEAPRSP  
DTLAPVASERLPPQSGGPEVETKRKDSILPERIGERPKITLLQSSKDRLRRRLKEKDEV  
AVETTTTPQQNKMDKLEILNSMRNNSDVTCLTTFMEEAQNSTNSEMLGEIVRTIYQK  
AVSDRSFAFTAACKLCKMALFMVEGTFKFRSLLLNLQKDFTVREELQQQDVERWLGFTF  
LCEVFGTMRSTGEFPRVLVCIYTCLRELLQSQDVKEDAVLCCSMELQSTGRLLLEEQLP  
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>sp|Q9UI47|CTNA3\_HUMAN Catenin alpha-3 OS=Homo sapiens GN=CTNA3 PE=1 SV=2

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SVEEATWNLLDKGEKIAQEATVLKDELTASLEEVKKESEALKVSAERFTDDPCFLPKREA  
VVQAARALLAAVTRLLILADMIDVMCLLQHVSFAFQRTFESLKNVANKSDLQKTYQKLKKE  
LENLDYLAFAKRQDLKSPNQRDEIAGARASLKENSPLLHSICSACLEHSDVASLKASKDT  
VCEEIQNALNVISNASQGIQNMTPPEPQAATLGSALDELENLIVLNPLTVTEEEIRPSL  
EKRLEAIIISGAALLDSSCTRDHLRERIIEACNAIRQALQDLLSEYMNNAGKKERSNTLN  
IALDNMCKKTRDLRRQLRKAIIDHVSDFSFLDTTVPLLVLIEAAKNGREKEIKEYAAIFHE  
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MYKRTWENHIHVLTEAVDDITSIDDFLAVSESHILEDVNKCIIALRDQDADNLDRAAGAI  
RGRAARVAHIVTGEMDSYEPGAYTEGVMRNVNFLTSTVIFEVTVQNVVALEALSKSSLNV



LDDNQFVDISKIYDTIHDIRCSVMMIRTPEELEDVSDLEEEHEVRSHTSIQTEGKTDR  
KMTQLPEAEKEKIAEQVADFKVKVSKLDAEIEIWDDTSNDIIVLAKNMCIMMEMTDFTR  
GKGPLKHTTDVIYAAKMISESGSRMDVLARQIANQCPDPSCKQDLLAYLEQIKFYSHQLK  
ICSQVKAIEIQNLGGELIMSALDSVTSLIQAAKNLMNAVQTVKMSYIASTKIIRIQSPAG  
PRHPVVMWRMKAPAKKPLIKREKPEETCAAVRRGSAKKKIHPLQVMSEFRGRQIY

>sp|060716|CTND1\_HUMAN Catenin delta-1 OS=Homo sapiens GN=CTNND1 PE=1 SV=1  
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TRRHQNGRFVGDADLERKQFSDLKLNQPDHSHLLYSTIPRMQEPGQIVETYTEEDPEGA  
MSVSVSSETSDDGTTRRTETTIVKVVKTVTTRTVQPVAMGPDGLPVDASSVSNNYIQTGR  
DFRKNNGGPGPYVGQAGTATLPRNFHYPPDGYSRHYEDGYPGGSDNYGSLSRVTRIEER  
YRPSMEGYRAPSRQDVYGPQPVVRVGSSVDLHRFHPEPYGLEDDQRSMGYDDL DYGMMS  
DYGTARRTGTPSDPRRRLRSYEDMIGEEVPSDQYYWAPLAQHERGSLASLDSLKGGPPP  
PNWRQPELPEVIAMLGFRDLAVKSNAAYLQHLCYRNDKVKT DVRKLKGI PVLVGLLDHP  
KKEVHLGACGALKNISFGRDQDNKIAIKNCDGVPALVRLLRKARDMDLTEVITGTLWNLS  
SHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHIEWESVLTNTAGCLRNVSSE  
RSEARRKLRECDGLVDALIFIVQAEIGQKSDSKLVENCVCLLRNLSYQVHREIPQAERY  
QEAAPNVANNTGPHAASCFGAKKGKDEWFSRGKKPIEDPANDTVDFPKRTSPARGYELLF  
QPEVVR IYISLLKESKTPAILEASAGAIQNL CAGRWTYGRYIRSALRQE KALSAIADLLT  
NEHERVVKAASGALRNLAVDARNKELIGKHAIPNLVKNLPGGQQNSSWNFSEDTVISILN  
TINEVIAENLEAAKKLRETQGI EKLVLINKSGNRSEKEVRAAALVLT IWGYKELRKPLE  
KEGWKKSDFQVNLNNASRSQSSHSYDDSTLPLIDRNQKSDKKPDREEIQMSNMGSNTKSL  
DNNYSTPNERGDHNRTLDRSGDLGMEPLKGTTPLMQDEGQESLEEELDVLVLDDEGGQV  
SYPSMQKI

>sp|Q9UQB3|CTND2\_HUMAN Catenin delta-2 OS=Homo sapiens GN=CTNND2 PE=1 SV=3  
MFARKPPGAAPLGAMPVPDQPSSASEKTSSSPGLNTSNGDGSETETTSAILASVKEQEL  
QFERLTRELEAERQIVASQLERCKLGSETGSMSSMSAEEQFQWQSQDGQKDIEDELTTG  
LELVDS CIRSLQESGILDPQDYSTGERPSLLSQSALQLNSKEGSFQYPASYHSNQTAL  
GETTPSQLPARGTQARATGQSFSQGTTSRAGHLAGPEPAPPPPPPREPFAPSLGSAFHL  
PDAPPA AAAAAALYSSSTLPAPPRGGSPLAAPQGGSP TKLQRGGSAP EGATYAAPRGSSP  
KQSPSRLAKSYSTSSPINIVSSAGLSPIRVTSPTTVQSTISSSPIHQLSSTIGTYATLS  
PTKRLVHASEQYSKHSQELYATATLQRPGSLAAGSRASYSSQHGHLP ELRALQSPEHHI  
DPIYEDRVYQKPPMRSLSQSQGDPLPPAHTGTYRTSTAPSSPGVDSVPLQRTGSQHGPQN  
AAAATFQRASYAAGPASNYADPYRQLQYCPSVESPYKSGPALPPEGTLARSPSIDSIQK  
DPREFGWRDPELPEVIQMLQHQPFSVQSNAAYLQHL CFGDNKIKAEIRRQGGIQLLVDL  
LDHRMTEVHRSACGALRNLVYGKANDDNKIALKNCGGIPALVRLLRKTTDLEIRELVTGV  
LWNLS SCDALKMPIIQDALAVLTNAVIIPHSGWENSPLQDDRKIQLHSSQVLRNATGCLR  
NVSSAGEEARRRMRECDGLTDALLYVIQSALGSSEIDSKTVENCVCILRNLSYRLAAETS  
QGQHMGTDDELGLLCGEANGKDAESSGCWGKKKKKKKSQDQWDGVGPLPDCAEPPKGIQM  
LWHPSIVKPYLTLLSECSNPDTLEGAAGALQNL AAGSWKWSVYIRA AVRKEKGLPILVEL  
LRIDNDRVVCATALRNMALDVRNKELIGKYAMRDLVHRLPGGNN SNNTASKAMSDDTV  
TAVCCTLHEVITKNMENAKALRDAGGIEKLVGISKSGDKHSPKVKAASQVLNSMWQYR  
DLRSLYKKGWSQYHFVASSSTIERDRQRPYSSSRTPSISPVRVSPNNRSASAPASPREM  
ISLKERKTDYECTGSNATYHGAKGEHTSRKDAMTAQNTGISTLYRNSYGAPAEDIKHNQV  
SAQVPVQEPSRKDYETYQPFQNSTRYNDESFEDQVHHRPPASEYTMHLGLKSTGNYVDF

YSAARPYSELNYETSHYPASPDWV

>sp|POC2S0|CTXN2\_HUMAN Cortexin-2 OS=Homo sapiens GN=CTXN2 PE=3 SV=1

MSSTYCGNSSAKMSVNEVSAFSLTLEQKTGFAFVGILCIFLGLLIIRCFKILLDPYSSMP  
SSTWEDEVVEEFDKGTFEYALA

>sp|043822|CU002\_HUMAN Protein C21orf2 OS=Homo sapiens GN=C21orf2 PE=1 SV=1

MKLTRKMVLTRAKASELH5VRKLNWGSRLTDISICQEMPSLEVITLSVNSISTLEPVSR  
CQRLSELYLRRNRIPSLAELFYLKGLPRLRVLWLAENPCCGTSPHRYRMTVLRTLRLQK  
LDNQAVTEEELSRALSEGEEITAAPEREGTGHGGPKLCCTLSSLSSAAETGRDPLDSEEE  
ATSGAQDERGLKPPSRGQFPSPSARDASSSHRGRNVLTAILLLLRELDAGLEAVQQTVG  
SRLQALRGEEVQEHA

>sp|P57076|CU059\_HUMAN UPF0769 protein C21orf59 OS=Homo sapiens GN=C21orf59 PE=1 SV=1

MVLLHVKRGDESQFLQAPGSTELEELTVQVARVYNGRLKVQRLCSEMEELAEHGIFLPP  
NMQGLTDDQIEELKLKDEWGEKCVPSGGAVFKDDIGRRNGQAPNEKMKQVLKKTIEEAK  
AIISKQVEAGVCVTMEMVKDALDQLRGAVMIVYPMGLPPYDPIRMEFENKEDLSGTQAG  
LNVKEAEALWAAKELRRTKKLSYVVGKNEKTKIIAKIQQRGQAPAREPIISSEEQK  
QLMLYHRRQEELKRLEENDDDAYLNSPWADNTALKRHFHGVKDIKWRPR

>sp|P58512|CU067\_HUMAN Uncharacterized protein encoded by LINC01547 OS=Homo sapiens  
GN=LINC01547 PE=2 SV=1

MGWDCRRTTVENPSPIRNCVNQEWPEGSSPGLTEGNTGLVRDLRPAHQDRSGTREDPAGQ  
ETTAITNPSPSLAADLAGDALPGCLGAAHQGPLLDRSSESTLGPQALELEHCHERGCCR  
GCASFSPFPAPRCPSERLGAHSSRWAIRGRSKINPPPWAPACLPGGFPACLPAPKSSTDS  
ASSCFKGGREFSDPLDIPGAGAMG

>sp|014810|CPLX1\_HUMAN Complexin-1 OS=Homo sapiens GN=CPLX1 PE=1 SV=1

MEFVMKQALGGATKDMGKMLGGDEEKDPDAAKKEEERQEALRQAEERKAKYAKMEARE  
AVRQGIRDKYGIKKKEEREAEQAAMEANSEGLTRPKKAIPPGCGDEVEEEDSILDTV  
IKYLPGPLQDMLKK

>sp|Q96FN4|CPNE2\_HUMAN Copine-2 OS=Homo sapiens GN=CPNE2 PE=1 SV=3

MAHIPSGGAPAAGAPMGPYCVCKVELSVSGQNLDRDVTSKSDPFCVLFTENNGRWIE  
YDRTETAINNLPFAFSKKFVLDYHFEEVQKLKFALFDQDKSSMRLEHDFLGQFSCSLGT  
IVSSKKITRPLLLNDKPAGKGLITIAAQELSDNRVITLSLAGRRLDKDLFGKSDPFLE  
FYKPGDDGKMWLVHRTEVIKYTLDPVWKPFTVPLVSLCDGMEKPIQVMCYDYDNDGGHD  
FIGEFQTSVSQMCEARDSVPLEFECINPKKQRKKKNYKNSGIIILRSCKINRDYSFLDYI  
LGGCQLMFTVGIDFTASNGNPLDPSSLHYINPMGTNEYLSAIWAVGQIIQDYDSKMFPA  
LGFGAQLPPDWKVSHEFAINFNPTNPFCSGVDGIAQAYSACLPHIRFYGPTNFSPIVNHV  
ARFAAQATQQRATQYFILLIITDGVISDMEETRHAVVQASKLPMSIIIVGVGNADFAAM  
EFLDGDSRMLRSHTGEEAARDIVQFVPFREFRNAKETLAKAVLAELPQQVVQYFKHKNL  
PPTNSEPA

>sp|075131|CPNE3\_HUMAN Copine-3 OS=Homo sapiens GN=CPNE3 PE=1 SV=1

MAACQVTKVALNVSCANLLDKDIGSKSDPLCVLFLNTSGQWYEVERTERIKNCLNPQFS  
KTFIIDYFEEVQKLKFGVYDIDNKTIELSDDDFLGECECTLGQIVSSKKLTRPLVMKTG  
RPAGKGSITISAEIKDNRVVLFEARKLDNKDLFGKSDPYLEFHKQTSNGNWMVHRT  
EVVKNLNPVWRPFKISLNSLCYGDMDKTIKVECYDYDNDGSHDLIGTFQTTMTKLKEAS  
RSSPVEFECINEKKRQKKKSYKNSGVISVKQCEITVECTFLDYIMGGCQLNFTVGVDFTG  
SNGDPRSPDSLHYISPNGVNEYLTALWSVGLVIQDYDADKMFPAFGFGAQIPPQWQVSHE

FPMNFNPSNPYCNGIQGIVEAYRSCLPQIKLYGPTNFSPIINHVARFAAAATQQQTASQY  
FVLLIITDGVITDLDETRQAIVNASRLPMSIIIVGVGGADFSAMEFLDGDGGSRLSPLGE  
VAIRDIVQFVPFRQFQNAPEALAQCVLAEIPQQVVGVFNTYKLLPPKNPATKQQKQ

>sp|Q10570|CPSF1\_HUMAN Cleavage and polyadenylation specificity factor subunit 1 OS=Homo sapiens GN=CPSF1 PE=1 SV=2

MYAVYKQAHPTGLEFSMYCNFFNNSERNLVVAGTSQLYVYRLNRDAEALTKNDRSTEGK  
AHREKLELAASFSFFGNVMSMASVQLAGAKRDALLSFKDAKLSVVEYDPGTHDLKTLSTL  
HYFEEPELRDGFVQNVHTPRVRVDPDGRCAAMLVYGTRLVLPFRRESLAEHEGLVGEG  
QRSSFLPSYIIDVRALDEKLLNIDLQFLHGYEPTLLILFEPNQTPGRVAVRQDTCSE  
VAISLNTQKVHPVIWSLTSLPFDCTQALAVPKPIGGVVVFVAVNSLLYLNQSVPPYGV  
VALNSLTGTTFAPLRTQEGVRITLDCATFISYDKMVISLKGGEIYVLTITDGMRSVRAF  
HFDKAAASVLTSMVTMEPGYLFLGSRLGNSLLKYTEKLQEPASAVREAADKEEPPSK  
KKRVDATAGWSAAGKSVPQDEVDEIEVYGSEASGTQLATYSFEVCDSILNIGPCANA  
AVGEPAFLSEEFQNSPEPDLEIVVCSGHGKNGALSVLQKSIRPVVTTFELPGCYDMWTV  
IAPVRKEEDNPKGEGTEQEPSTTPEADDDGRRHGFLILSREDSTMILQTGQEIMELDT  
SGFATQGPVTFAGNIGDNRYIVQVSPLGIRLLEGVNQLHFIPVDLGAPIVQCAVADPY  
VIMS AEGHVTMFLKSDSYGGRHRLALHKPPLHHQSKVITLCLYRDLSGMFTTESRLG  
GARDELGGRSGPEAEGLGSETSPVDDDEEEMLYGDSGSLFSPSKEEARSSQPPADRD  
PAPFRAEPTHWCLLVRENGTMEIYQLPDWRLVFLVKNFPVGQRVLVDSSFGQPTTQGE  
ARREEATRQ GELPLVKEVLLVALGSRQSRPYLLVHVDQELLIYEAFPHDSQLGQGNL  
KVRFKKVPHNIN FREKKPKPSKKKAEGGGAEEGAGARGVARFRYFEDIYGYSGVFI  
CGPSPHWLLVTGRGALRLHPMAIDGPVDSFAPFHNVCPRGFLYFNRQGELRISVLPAY  
LSYDAPWPVRKIPLRCTAHYVAYHVESKVYAVATSTNTPCARIPRMTGEEKEFETIER  
DERYIHPQQEAFSIQLIS PVSWEAIPNARIELQEWEHVTCMKTVSLRSEETVSGLKGY  
VAAGTCLMQGEEVTCRGRILIMDVIEVVPEPGPLTKNKFVLYEKEQKGPVTALCHCNGH  
LVSAIGQKIFLWSLRASELTGMAFIDTQLYIHQMISVKNFILAADVMKSISSLRYQEESK  
TSLSVSRDAKPLEVYSVDFMVDNAQLGFLVSDRDRNLMVYMYLPEAKESFGGMRLLRAD  
FHVGAHVNTFWRTPCRGAT EGLSKKSVVWENKHITWFATLDGGIGLLPMQEKT  
YRRLMLQNALTMTLPHHAGLNPRAFRMLHVDRTLQNAVRNVLDGELLNRYLYLSTMER  
SELAKKIGTTPDIILDDLLETDRVTAHF

>sp|Q96SM3|CPXM1\_HUMAN Probable carboxypeptidase X1 OS=Homo sapiens GN=CPXM1 PE=2 SV=2

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTS  
EQHVRIRVIKKKKVIMKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGL  
ESLRVSDSRLEASSSQSFLGLPHRGRLLNIQSGLEDGLYDGAWCAEEQDADPWFQVDAGH  
PTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGMDAVFPANSDPETPVL  
NLLPEPQVARFIRLLPQTLWQGGAPCLRAEILACPVSNDPLFLEAPASGSSDPLDFQHH  
NYKAMRKLKMQVQECPNITRIYSIGKSYQGLKLYVMEMSDKPGHEHELGEPEVRYVAGMH  
GNEALGRELLLLLMQFLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYRGSELVG  
WAEGRWNNQSIDLNHNFADLNTPLWEAQDDGKVPHIVPNHHLPLPTYTLPNATVAPETR  
AVIKWMKRIPFVLSANLHGELVVSYPFDMTRTPWAARELTPTPDDAVFRWLSTVYAGSN  
LAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE  
NELPQEWENKDALTYLEQVRMGIAGVVRDKDELGIADAVIAVDGINHDVTTAWGGDY  
WRLLTPGDYMTASAEGYHSVTRNCRVTFEEGFPFCNFVLTKTPKQRLRELLAAGAKVPP  
DLRRRLERLRGQKD

>sp|Q6JBY9|CPZIP\_HUMAN CapZ-interacting protein OS=Homo sapiens GN=RCSD1 PE=1 SV=1

MEERPAETNANVDNSASPSVAQLAGRFREQAAAAKETPASKPTRRKPPCSLPLFPPKVDL  
GQNGEEKSPPNASHPPKFKVKSSPLIEKLQANLTFDPAALLPGASPKSPGLKAMVSPFHS  
PPSTPSSPGVRSRPEAEVPSFDDQPEGSHLPCYNKVRTRGSIKRRPPSRRFRRSQSD  
CGELGDFRAVESSQQNGAKEEDGDEVLPSSKAPGSPLSSEGAAGEGVRTLGPAPKPLR  
RSPSRTEKQEEDRATEEAKNGEKARRSSEVDGQHPAQEEVPESPQTSGPEAENRCGSPR  
EEKPAGEEAEMEKEATEVKGERVQNEEVGPEHDSQETKKLEEGAAVKETPHSPPGGVKGGD  
VPKQEKGEKQKEGAVLEPGCSPQTGPAQLETSSEVQSEPAVPKPEDDTPVQDTKM

>sp|Q9H8M1|CQ10B\_HUMAN Coenzyme Q-binding protein COQ10 homolog B, mitochondrial OS=Homo sapiens GN=COQ10B PE=2 SV=1

MAARTGHTALRRVVSGRPKSATAAGAAQAPVRNGRYLASCGLMSRTLPLHTSILPKEIC  
ARTFFKITAPLINKRKEYSERRILGYSMQEMYDVVSGVEDYKHFVPWCKKSDVISKRSGY  
CKTRLEIGFPPVLERYTSVVTLVKPHLVKASCTDGRLFNHLETIWRFSPLPGYPRTCTL  
DFSISFEFRSLLHSQLATLFFDEVVKQMVAAFERRACKLYGPETNIPRELMLHEVHHT

>sp|Q9BZP3|CR002\_HUMAN Putative uncharacterized protein encoded by LINC00470 OS=Homo sapiens GN=LINC00470 PE=5 SV=1

MVRHPYSVQTLSTEAKAIWRSMQQQETNLLANLTTNDARDNSKDFQNSKVGAAATSRDE  
GCNCPIIGEIVISCYWLFEIPPLISE

>sp|O60519|CRBL2\_HUMAN cAMP-responsive element-binding protein-like 2 OS=Homo sapiens GN=CREBL2 PE=1 SV=1

MDDSKVVGKVKKPGKRGRKPAKIDLKAKLERSRQSARECRARKKLRYQYLEELVSSRER  
AICALREELEMYKQWCMAMDQGKIPSEIKALLTGEEQNKSSQNSSRHTKAGKTDANSNSW

>sp|P22914|CRBS\_HUMAN Beta-crystallin S OS=Homo sapiens GN=CRYGS PE=1 SV=4

MSKTGKITIFYEDKNFQGRRYDCDCDCADFHTYLSRCNSIKVEGGTWAVYERPINFAGYMY  
ILPQGEYPEYQRWMLNDRLSSCRAVHLPSGGQYKIQIFEKGFSGQMYETTEDCPSIME  
QFHMREIHCKVLEGVWIFYELPNYRGRQYLLDKKEYRKPIDWGAASPAVQSFRRIVE

>sp|Q6UUU9|CRTC1\_HUMAN CREB-regulated transcription coactivator 1 OS=Homo sapiens GN=CRTC1 PE=1 SV=2

MATSNPRKFSEKIALHNQKQAEETAAFEEVMKDLSLTRAARLQLQKSQYLQLGPSRGQY  
YGGSLPNVNQIGSGTMDLPFQTPFQSSGLDTSRTTRHHGLVDRVYRERGRLGSPHRRPLS  
VDKHGRQADSCPYGTMYLSPPADTSWRRTNSDSALHQSTMTPTQPESFSSGSQDVHQKRV  
LLLTVPGMEETTSEADKNLSKQAWDTKKTGSRPKSCEVPGINIFPSADQENTTALIPATH  
NTGGSPLDLTNIHFPSPLPTPLDPEEPTFPALSSSSSTGNLAANLTHLGIGGAGQGMSTP  
GSSPQHRPAGVSPLSLSTEARRQQASPTLSPLSPITQAVAMDALSLEQLPYAFTQAGS  
QQPPPQPQPPPPPPASQQPPPPPPQAPVRLPPGGPLLPSASLTRGPQPPPLAVTVPSS  
LPQSPPENPGQPSMGIDIASAPALQQYRTSAGSPANQSPTSPVSNQGFSPGSSPQHTSTL  
GSVFGDAYYEQQMAARQANALSHQLEQFNMMENAISSSSLYSPGSTLNYSQAAMMGLTGS  
HGSLPDSQQLGYASHSGIPNIIILTVTGESPPSLSKELTSSLAGVDVSFSDSDSQFPLDEL  
KIDPLTLDGLHMLNDPDMVLADPATEDTFRMDRL

>sp|Q9P1W3|CSC1\_HUMAN Calcium permeable stress-gated cation channel 1 OS=Homo sapiens GN=TMEM63C PE=2 SV=1

MSASPDDLSTGGRLQNMVDECFQSRNTVLQGGPFGGVPTVLCLNIALWVLVLVVSFLR  
KAAWDYGRALLIHNDLSLTIYGEQSEKTSPTSLEMERDKGFCSWFFNSITMKDED  
LINKCGDDARIYIVFYHLIIFVLIICIPSLGIILPINYTGSVLDWSSHFARTTIVNVST

ESKLLWLHSLLSFFYFITNFMMAHHCLGFAPRNSQKVTRTLMITYVPKDIEDPELIIKH  
FHEAYPGSVVTRVHFCYDVRNLIDLDDQRRHAMRGRLFYTAKAKKTGKVMIRIHPCARLC  
FCKCWTCTCFKEVDAAEQYYSELEEQLTDEFNAELNRVPLKRLDLIFVTFQDSRMAKVRKDY  
KYVQCQGVQPQQSSVTTIVKSYWRVTMAPHPKDIWKHLSVRRFFWWARFIAINTFLFFL  
FFFLTTPAIIMNTIDMYNVTRPIEKLQNPIVTQFFPSVMLWGFTVILPLIVYFSAFLEAH  
WTRSSQNLVMVHKCYIFLVFMVVILPSMGLTSLDVFLRWLFDIYYLEQASIRFQCVFLPD  
NGAFFVNYVITAALLGTGMELLRLGSLFCYSTRLFFSRSEPERVNIRKNQAIDFQFGREY  
AWMMNVFSVVMAYSITCPIIVPFGLLYLCMKHLTDRYNMYYSFAPTKLNEQIHMAAVSQA  
IFAPLLGLFWMLFFSILRLGSLHAITIFSLSTLLIAMVIAFVGIFLGKLRMVADYEPEEE  
EIQTVFDMEPSSTSSTPTSLLYVATVLQEPELNLTASSPARHTYGTMNQPEEGEEESG  
LRGFARELDSAQFQEGLELEGQNYH

>sp|014936|CSKP\_HUMAN Peripheral plasma membrane protein CASK OS=Homo sapiens GN=CASK  
PE=1 SV=3

MADDDVLFEDVYELCEVIGKGPFSVVRRCINRETGQQFAVKIVDVAKFTSSPGLSTEDLK  
REASICHMLKHPHIVELLEITYSSDGMLYMVFEFMDGADLCFEIVKRADAGFVYSEAVASH  
YMRQILEALRYCHDNNIIHRDVKPHCVLLASKENSAPVKLGFGVAIQLGESGLVAGGRV  
GTPHFMAPEVVKREPYGKPVVDWVGCVILFILLSGCLPFYGTKERLFEGIIKGKYMNPR  
QWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERDRYAYKIHLPETVEQLRKFN  
RRKLKGAVLAAVSSHKFNSFYGDPPEELPDFSEDPTSSGLLAERAVSQVLDSEELHAL  
TDCSEKDLDFLHSVFQDQHLHTLLDYDKINTKSSPQIRNPPSDAVQRAKEVLEEISCYP  
ENNDAKELKRILTQPHFMALLQTHDVVAHEVYSDEALRVTPPTSPYLNQDSPESANGDM  
DMENVTRVRLVQFQKNTDEPMGITLKMNELNHCIVARIMHGGMIHRQGTLHVGEIREIN  
GISVANQTVEQLQKMLREMRGSIITFKIVPSYRTQSSSCERDSPSTSRQSPANGHSSTNS  
VSDLPSTTPKGRQIYVRAQFEYDPAKDDLIPCKEAGIRFRVGDIIQIISKDDHNWWQGK  
LENSKNGTAGLIPSELQEWVACIAMEKTKQEQQASCTWFGKKKKQYKDKYLAKHNAVF  
DQLDLVTYEEVVKLPAFKRKTLLVLAGHVGRRHIKNTLITKHPDRFAYPIPHTRPPKK  
DEENGKNYYFVSHDQMMQDISNNEYLEYGSHEDAMYGTKLETIRKIHEQGLIAILDVEPQ  
ALKVLRTAEFAPFVVFIAAPTITPGLNEDESLQRLQKESDILQRTYAHYFDLTIINNEID  
ETIRHLEEAVELVCTAPQWVPVSWVY

>sp|Q7L5N1|CSN6\_HUMAN COP9 signalosome complex subunit 6 OS=Homo sapiens GN=COPS6 PE=1  
SV=1

MAAAAAAAAAATNGTGSSGMEVDAAVPSVMACGVTGSVSVALHPLVILNISDHWIRMRS  
QEGRPVQVIGALIGKQEGRNIEVMNSFELLSHTVEEKIIIDKEYYYTKEEQFKQVFKELE  
FLGWYTTGGPPDPDSIHVHKQVCEIIESPLFLKLNPMTKHTDLPVSVFESVIDIINGEAT  
MLFAELTYTLATEEAERIGVDHVARMATGSGENSTVAEHLIAQHSAIKMLHSRVKLILE  
YVKASEAGEVPFNHEILREAYALCHCLPVLSTDKFKTDFYDQCNDVGLMAYLGTITKCN  
TMNQFVNKFNVLYDRQGIGRRMRGLFF

>sp|095196|CSPG5\_HUMAN Chondroitin sulfate proteoglycan 5 OS=Homo sapiens GN=CSPG5 PE=1  
SV=3

MGRAGGGGPGRGPPLLLFLGAALVLASGAVPAREAGSAVEAEELVKGSPAWEPPANDTR  
EEAGPPAAGEDEASWTAPGGELAGPEEVLQESA AVTGTAWLEADSPGLGGVTAEAGSGDA  
QALPATLQAPHEVLGQSIMPPIPEATEASGPPSPTPGDKLSPASELPKESPLEVWNLG  
GSTPDPQGPELTYPFQGTLEPQPASDIIIDIDYFEGLDGEGRGADLGSFPGSPGTSENHPD  
TEGETPSWSLLDLYDDFTPFDESDFYPTTSFYDDLDEEEEEEEEDDKAVGGGDLEDENEL

LVPTGKPLGPGTGQPTSRWHAVPPQHTLGSVPGSSIALRPRPGEPGRDLASSENTECR  
SGFVRHNGSCRSVCDLFP SYCHNGGQCYLVENIGAFRCRCNTQDYIWHKGMRCESIITDFQ  
VMCVAVGSAALVLLLLFMMTVFFAKKLYLLKTENTKLRRTNKFRTPSSELHNDNFSLSLIA  
EGSHPNVRKLCNTPTSTSPHARALAHYDNVICQDDPSAPHKIQEVLKSLKEEESFNIGN  
SMSPKLEGGKGDQADLDVNCLQNNLT

>sp|Q96S65|CSRNI\_HUMAN Cysteine/serine-rich nuclear protein 1 OS=Homo sapiens GN=CSRNP1  
PE=1 SV=2

MTGLLKRKFDQLDEDNSSVSSSSSSSGCQSRSCSPSSSVSRAWDSEEEGPWDQMPLPDRD  
FCGPRSFTPLSILKRARRERPRGVAFDGITVFYFPRCQGFTSVPSRGGCTLGMLRHSAC  
RRFSLAEFAQEQRARHEKLRQLKEEKLEMLQWKLAAAGVPQAEAGLPPVDAIDDAV  
EEDLAVAVAGGRLEEVSFLLQPYPARRRRALLRASGVRRIDREEKRELQALRQSREDCGCH  
CDRICDPETCSCSLAGIKCQMDHTAFPCGCCREGCENPMGRVEFNQARVQTHFIHTLTRL  
QLEQEAESFRELEAPAQGSPPSPGEEALVPTFPLAKPPMNELGDNSSCDMTDSSTASS  
SASGTSEAPDCPTHPLPGPGFQPGVDDSLARILSFSDSDFGGEEEEEEGSGVGNLDNL  
SCFHPADIFGTSDPGGLASWTHSYSGCSFTSGVLDENANLDASCFLNGGLEGSREGSLPG  
TSVPPSMDAGRSSSVDLSSCDSEFELLQALPDYSLGPHYTSQKVSDSLDNIEAPHFPLP  
GLSPPGDASSCFLESLMGFSEPAEALDPFIDSQFEDTVPASLMEPVV

>sp|P21291|CSRPI\_HUMAN Cysteine and glycine-rich protein 1 OS=Homo sapiens GN=CSRPI PE=1  
SV=3

MPNWGGGKKCGVCQKTVYFAEEVQCEGNSFHKSCFLCMVCKKNLDSTTVAVHGEEIYCKS  
CYGKKYGPKGYGQAGATLSTDKGESLGIKHEEAPGHRPTNPNASKFAQKIGGSERCP  
RCSQAVYAAEKVIGAGKSWHKACFRCAKCGKLESTTLADKDGEIYCKGKYAKNFGPKGF  
GFGQGAGALVHSE

>sp|Q9GZN8|CT027\_HUMAN UPF0687 protein C20orf27 OS=Homo sapiens GN=C20orf27 PE=1 SV=3

MAAANKGNKPRVRSIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKI  
LHRYEITFTLPPVHRLSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEI  
LLACEGGTGTCVRVTQARVMDRHHGTPMLLDGVKCVGAELEYDSEHSDWHGFD

>sp|Q4KN68|CT062\_HUMAN Uncharacterized protein encoded by LINC01620 OS=Homo sapiens  
GN=LINC01620 PE=2 SV=2

MAYYFHFYGELPSQESPHPGVYSPHPQGGWQPTADSYREWHNEDLNPRMSHWTYAQELVS  
YKKTSTFIVWRHRISPNGVTSRKPYPYCHFHGGQWPGPTPPSCLSSAFASGSFSHFEDSPYIL  
LHVVLQMCWLRAQLNQRDLGLNPTSAIEHQLSDLDCVPLLLWASDSPSE

>sp|Q96LM9|CT173\_HUMAN Uncharacterized protein C20orf173 OS=Homo sapiens GN=C20orf173  
PE=2 SV=1

MLSGPHPSPTFRPNPCWPCLHSLWMEISPTQLCFLSPGPSPQSPSCCFQGMNSGSELGK  
LWRKLFKGIPRLSVSHFDYCGTCVLLGRPQIPQGSSLGNDIDQYPVVFRNASDQGSWMQ  
LEMILLRKLSDLVWTSDALSDKILEDGLVP

>sp|Q8N268|CT197\_HUMAN Uncharacterized protein C20orf197 OS=Homo sapiens GN=C20orf197  
PE=2 SV=1

MVALFQHSPYQADGYGHSRLKCQHFQHRQYNDKLEISSNLGPQFNALLNILLNIVHP  
TLSHDTRRSKGLKIEGLLSRELGNSTVTMCIWVLKALQSSAPNKPLDWLDPMPCFQNL  
LARGTP

>sp|Q5HYN5|CT451\_HUMAN Cancer/testis antigen family 45 member A1 OS=Homo sapiens GN=CT45A1  
PE=2 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSL IAGSAMS KAKKLMT  
GHAIPPSQLDSQIDDFTGFSKDRMMQKPGSNAPVGGNVTSSFSGDDLECRETASSPKSQR  
EINADIKRKLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFFESI IKEAARCMRRDFVKH  
LKKKLKRM I

>sp|Q5JQC4|CT47A\_HUMAN Cancer/testis antigen 47A OS=Homo sapiens GN=CT47A1 PE=2 SV=1

MSATGDRHPTQGDQEAPVSQEGAQAEAAGAGNQEGGDSGPDSSDVVPAAEVVG VAGPVEG  
LGEERGEQAAGLAAPRGSSAEEDSDIGPATEEEEEEGNEANFDLAVVARRYPASGIH  
FVLDMVHSLHRLSHNDHIL IENRQLSRLMVGPHAAARNLWGNLPPLLPQRLGAGAAA  
RAGEGLGLIQEAASVPEPAVPADLAEMAREPAEEAAEEKLSEEATEEPDAEEPATEEPTA  
QEATAPEEVTKSQPEKWDEEAQDAAGEEKEQEKEKDAENKVKNSKGT

>sp|Q8WVB6|CTF18\_HUMAN Chromosome transmission fidelity protein 18 homolog OS=Homo sapiens GN=CTF18 PE=1 SV=1

MEDYEQELCGVEDDFHNQFAAELEVLAELEGASTPSPSGVPLFTAGRPPRTFEEALARGD  
AASSPAPAASVGSSQGGARKRQVDADLQAGSLPHAPRIKRPLQVVKRLNFRSEEMEEP  
PPPSSPTDITPPPSPEDLAELWGHGVSEAAADVGLTRASPAARNPVLRRPPILEDYVHV  
TSTEGVRAYLVLRADPMAPGVQGSLLHVPWRGGGQLDLLGVSLASLKKQVDGERRERLLQ  
EAQKLSDTLHSLRSGEAAQPLGAPEEEPTDGDASSHCLWVDEFAPRHYTELLSDDFT  
NRCLLKWKLWDLVVFHERPSRKPRPSVEPARVSKEATAPGKWSHEQVLEEMLEAGLD  
PSQRPKQKVALLCGPPGLGKTTLAHV IARHAGYSVVMNASDDRSPEVFRTRIEAATQME  
SVLGAGGKPNCLVIDEIDGAPVAAINVLLSILNRKGPQEVGPQGPAPVSGGRRRRRAEGG  
LLMRPIICICNDQFAPSLRQLKQQAFLHFPPTLPSRLVQRLQEVSLRQGMRADPGVLAA  
LCEKTDNDIRACINTLQFLYSRGQRELSVRDVQATRVGLKDQRRGLFSVWQEVFQLPRAQ  
RRRVGQDPALPADTLLLDGDAGSLTSASQRFYRVLHAAASAGEHEKVQGLFDNFLRLR  
LRDSSLGAVCVALDWLAFDDLLAGAAHHSQSFQLLRYPPFLPVAFHVLFASSHTPRITFP  
SSQQAQNRMSQMRNLIQTLVSGIAPATRSRATPQALLLDALCLLLDILAPKLRPVSTQL  
YSTREKQQLASLVGTM LAYS LTYRQERTPDGQYIYRLEPNVEELCRFPELPARKPLTYQT  
KQLIAREIEVEKMRRAEASARVENSPQVDGSPGLEGLGGIGEGVHRPAPRNHEQRLE  
HIMRAAREEQPEKDFFRVVRSTAVPSAGDTAPEQDSVERRMGTAVGRSEVWFRFNEG  
VSNVRRSLYIRDLL

>sp|P78358|CTG1B\_HUMAN Cancer/testis antigen 1 OS=Homo sapiens GN=CTAG1A PE=1 SV=1

MQAEGRTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGATGGRGPRGAGAAASGPGGGA  
PRGPHGGAASGLNGCCRCGARGPESRLLEFY LAMPFATPMEAELARRSLAQDAPPLPVP  
VLLKEFTVSGNILTIRLTAADHRQLQLSISSCLQQLSLLMWITQCFLPVFLAQPPSGQRR

>sp|POCG41|CTGE8\_HUMAN cTAGE family member 8 OS=Homo sapiens GN=CTAGE8 PE=3 SV=1

MEEPGATPQPYLGLVLEELRRVVAALPESMRPDENPYGFPSELVVCAAVIGFFVLLFLW  
RSFRSVRSRLYVGREQKLGATLSGLIEEKCKLLEKFSLIQKEYEGYEVESSELDASFEKA  
AAEEARSLEATCEKLNRSNSELEDEILCLEKDLKEEKS KHSQQDELMADISKSIQSLEDE  
SKSLKSQIAEAKIICKTFKMSEERRAIAIKDALNENSQLTSHKQLFQQEAEVWKGVSE  
LNKQKITFEDSKVHAEQVLNDKENHIKTLTGHLPMMDQAAVLEEDTTDDDNLELEVNSQ  
WENGANLDDPLKGALKKLIHAAKLNVSLSKLEGERNHII IQLSEVDKTEELTEHIKNLQ  
TQQASLQSENIYFESENKQLQKQKIMTEFYQENEMKLYRKL TVEENYRIEEEEKLSRVE  
EKISRATEGLETYRKLAKDLEELERTVHFYQKQVISYEKRGHDNLAAARTAEARNLSDLR  
KENAHNKQKLTETELKFELLEKDPNALDVSNTAFGREHSPCSPSPLGRPSSETRAFPPSQ  
TLLEDPLRLSPVLPGGGGRGPPSGNPLDHQITNERGEPSYDRLIDPHRAPSDTGSLSPP

VEQDRMMFPPPGQSYPDSTLPPQREDRFYSNSERLSGPAEPRSFKMTSLDKMDRSMPS  
MESSRNDKDDLGNLNPDSLLPAENEATGPGFIPPPLAPVRGPLFPVDTRGPFMRRGPP  
FPPPPPGTMFGASRGYFPPRDFPGPPHAPFAMRNIYPPRGLPPYLHPRPGFYPNPTF

>sp|P29279|CTGF\_HUMAN Connective tissue growth factor OS=Homo sapiens GN=CTGF PE=1 SV=2

MTAASMGPVRVAFVLLALCSRPAVGQNCSGPCRCPDEPAPRCPAGVSLVLDGCGCCRV  
AKQLGELCTERDPCDPHKGLFCHFSPANRKIGVCTAKDGAPCIFGGTVYRSGESFQSSC  
KYQCTCLDGAVGCMPLCSMDVRLPSPDCPFPRRVKLPKCCCEEWVCDEPKDQTVVGPALA  
AYRLEDTFGPDPTMIRANCLVQTTEWSACSKTCGMGISTRVTNDNASCRLEKQSRLCMVR  
PCEADLEENIKKGGKCI RTPKISKPIKFELSGCTSMKTYRAKFCGVCTDGRCTPHRTTT  
LPVEFKCPDGEVMKKNMMFIKTCACHYNCPGDNDIFESLYRKMVGDMA

>sp|P16410|CTLA4\_HUMAN Cytotoxic T-lymphocyte protein 4 OS=Homo sapiens GN=CTLA4 PE=1 SV=3

MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEY  
ASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLR  
AMDTGLYICKVELMYPPPYLIGINGTQIYVIDPEPCPDSDFLLWILAAVSSGLFFYSFL  
LTAVLSKMLKKRSPLTTGVYVKMPPEPECEKQFQPYFIPIN

>sp|P35221|CTNA1\_HUMAN Catenin alpha-1 OS=Homo sapiens GN=CTNNA1 PE=1 SV=1

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHV  
LAASVEQATENFLEKGDKI AKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVK  
RGNMVARAARALLSAVTRLLILADMADV KLLVQLKVVEDGILKLRNAGNEQDLGIQYKAL  
KPEVDKLNIMAAKRQELKDVGH RDQMAAARGILQKNVPILYTASQACLQHPDVAAYKAN  
RDLIYKQLQQA VTGISNAAQATASDDASQHQQGGGGELAYALNNFDKQIIVDPLSFSEER  
FRPSLEERLESIISGAALMADSSCTDRRRERIVAECNAVRQALQDLLSEYMGNAGRKER  
SDALNSAIDKMTKKTRDLRRQLRKAVMDHVSDFSLETNVPLLVLIEAAKNGNEKEVKEYA  
QVFREHANKLIEVANLACSI SNNEEGVKLRMSASQLEALCPQVINAALALAAKPQSKLA  
QENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNKCVIALQEKDVGDLDR  
TAGAIRGRAARV IHVVTSEMDNYEPGVYTEKVLEATKLLSNTVMPRFTEQVEAAVEALSS  
DPAQPMDENEFIDASRLVYDGI RDKAVLMIRTPEELDDSFETEDFDVRSRTSVQTED  
DQLIAGQSARAIMAQLPQEQA KIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQMC  
MIMMEMTDFTRGKGPLKNTSDVISAAKKIAEAGSRMDKLGRTIADHCPDSACKQDLLAYL  
QRIALYCHQLNICKVKA EVQNLGGELVVS GVSAMSLIQAANKLMNAV VQTVKASYVAS  
TKYQKSQGMASLNLPAVSWKMAPEKKPLVKREKQDETQTKIKRASQKKHVNVPVQALSEF  
KAMDSI

>sp|P26232|CTNA2\_HUMAN Catenin alpha-2 OS=Homo sapiens GN=CTNNA2 PE=1 SV=5

MTSATSPIILKWDPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSKKAHVL  
AASVEQATQN FLEKEQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDPCCSVKR  
GTMVARAARALLSAVTRLLILADMADV MRLLSHLKIV EEALEAVKNATNEQDLANRFKEFG  
KEMVKLNYVAARRQELKDPHCRDEMAAARGALKKNATMLYTASQAFLRHPDVAATRANR  
DYVFKVQVEA IAGISNAAQATSPTDEAKGHTGIGELAAALNEFDNKIILDPMTFSEARFR  
PSLEERLESIISGAALMADSSCTDRRRERIVAECNAVRQALQDLLSEYMNNTGRKEKGD  
PLNIAIDKMTKKTRDLRRQLRKAVMDHISDFSLETNVPLLVLIEAAKSGNEKEVKEYAQV  
FREHANKLVEVANLACSI SNNEEGVKLRMAATQIDSLCPQVINAALTLAARPQSKVAQD  
NMDVFKDQWEKQVRVLT EAVDDITSVDDFLSVSENHILEDVNKCVIALQEGDVTLDRTA  
GAIRGRAARV IHIINAEMENYEAGVYTEKVLEATKLLSETVMPRFAEQVEVAIEALSANV



PQPFEENEFIDASRLVYDGVDIRKAVLMIRTPEELEDDSDFEQEDYDVRSRTSVQTEDD  
QLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAEVAKWDDSGNDIIVLAKQMCM  
IMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSACKQDLLAYLQ  
RIALYCHQLNICKSVKAEVQNLGGELIVSGTGVQSTFTTFYEVD CDVIDGGRASQLSTHL  
PTCAEGAPIGSGSSDSSMLDSATSLIQAANKLMNAVVLTVKASYVASTKYQKVYGTAAVN  
SPVVSWMKAPEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF

>sp|P59089|CU086\_HUMAN Putative uncharacterized protein encoded by LINC00205 OS=Homo sapiens GN=LINC00205 PE=5 SV=1

MTPARPPRFPDDGSWRAFLRQRPQATERRPRRERMVFKLLEGLPPTLNTPVSRHRQGS  
GHKPASPFYSQNRGLRTFFNDFRTECTGRPRLCFHSLRCGAFSPGAPCWGRFNRRPCLP  
PTVLRKDRPSLPQERPGWRSPGVGGSSELALSPGLVSPQSGPWP

>sp|Q13616|CUL1\_HUMAN Cullin-1 OS=Homo sapiens GN=CUL1 PE=1 SV=2

MSSTRSQNPGLKQIGLDQIWDDLRAQIQVYTRQSMASRYMELYTHVINYCTSVHQSN  
QARGAGVPPSKSKKGQTPGGAQFVGLELYKRLKEFLKNYLTNLLKDGEDLMDESVLKFYT  
QQWEDYRFSSKVLNGICAYLNRHWVRRECDEGRKGIYEIYSLALVTRDCLFRPLNKQVT  
NAVCLKLIEKERNGETINTRLISGVVQSYVELGLNEDDAFAKGPTLTVYKESFESQFLADT  
ERFYTRETEFLQQNPVTEYMKAEARLLEEQRVQVYLHESTQDELARKCEQVLEKHL  
EIFHTEFQNLDDADKNEDLGRMYNLVSRIQDGLGELKKLLETHIHNQGLAAIEKCGEAAAL  
NDPKMYVQTVLDVHKYNALVMSAFNNDAGFVAALDKACGRFINNNAVTKMAQSSSKSPE  
LLARYCDSLLKSSKNPEEALEDTLNQVMVVFYKIEDKDVFKFYAKMLAKRLVHQNSA  
SDDAEASMISKLKQACGFYTSKLQRMFQDIGVSKDLNEQFKHLTNSEPLDLDFSQVL  
SSGSWPFQSQCTFALPSELERSYQRFTAFYASRHSGRKL TWLYQLSKGELVTNCFKNRYT  
LQASTFQMAILLYNTEDAYTVQQLTDSTQIKMDILAQVLQILLKSKLLVLEDENANVDE  
VELKPDTLIKLYLGYKNKKLRVNINVPMKTEQKQEETTHKNIEEDRKLLIQAAIVRIMK  
MRKVLKHQQLLGEVLTQLSSRFKPRVPV IKKCIDILIEKEYLERVDGEKDTYSYLA

>sp|Q13619|CUL4A\_HUMAN Cullin-4A OS=Homo sapiens GN=CUL4A PE=1 SV=3

MADEAPRKGSFSALVGRTNGLTKPAALAAAPAKPGGAGGSKLVIKNFRDRPRLPDNYTQ  
DTWRKLHEAVRAVQSSTSIRYNLEELYQAVENLCSHKVSPMLYKQLRQACEDHVQAQILP  
FREDSLDSVLFLKKINTCWQDHCQRMIMIRSI FLFLDRTYVLQNSTLPSIWDMGLELFR  
HIISDKMVQSKTIDGILLIERERSGEAVDRSLLRSLLGMLSDLQVYKDSFELKFLEETN  
CLYAAEGQRLMQEREVPEYLNHVSKRLEEEDRVITYLDHSTQKPLIACVEKQLLGEHLT  
AILKGLDHLLDENRVPDLAQMYQLFSRVGGQALLQHWSEYIKTFGTIVINPEKDKD  
MVQDLLDFKDKVDHVEVCFQKNERFVNLMKESFETFINKRPNKPAELIAKHVDSKLRAG  
NKEATDEELERTLDKIMILFRFIHGKDVFEAFYKKDLAKRLLVGKSASVDAEKSMLSKLK  
HECGAAFTSKLEGMFKDMELSKDIMVHFQKHMQNQSDSGPIDLTVNILTMGYWPTYTPME  
VHLTPMIKLQEVFKAFYLGKHSRKLQWQTTLGHAVLKAEFKEGKKEFQVSLFQTLVLL  
MFNEGDFGSFEEIKMATGIEDSELRRTLQSLACGKARVLKSPKGKEVEDGDKFIFNGEF  
KHKLFRIKINQIMKETVEEQVSTTERVFQDRQYQIDAAIVRIMKMRKTLGHNLLVSELY  
NQLKFPVPGDLKKRIESLIDRDYMERDKDNPQYHYVA

>sp|O14529|CUX2\_HUMAN Homeobox protein cut-like 2 OS=Homo sapiens GN=CUX2 PE=1 SV=4

MAANVGSMFYWKRFDLRRLQKELNSVASELSARQEESEHSHKHLIELRREFKKNVP EEI  
REMVAPVLKSFQAEVVALSKRSQEAEEAFLSVYKQLIEAPDPVPVF EAARSLDDRLQPPS  
FDPSGQPRRDLT SWKRNPPELLSPKEQREGTSPAGPTLTEGSRLPGIPGKALLTETLLQR  
NEAEKQKGLQEVQITLAARLGEAEEKIKVLHSALKATQAELLELRKYDEEAASKADEVG

LIMTNLEKANQRAEAAQREVESLREQLASVNSSIRLACCSPPQGPSGDKVNFTLCSGPRLE  
AALASKDREILRLKDVQHLQSSSQELEEASANQIADLERQLTAKSEATEKLEEKLAQS  
DYEEIKTELSILKAMKLASSTCSLPQGMAKPEDSLLIAKEAFFPTQKFLEKPSLLASPE  
EDPSEDDSIKDSLGTESYSPSPQQLPPPPGPEPLSPSPGQPLLGPSLGPDPGTRTFSLS  
FPSLASGERLMMPPAAFKGEAGLLVFPPAFYGAKPPTAPATPAPGPEPLGGPEPADGGG  
GGAAGPGAEEELDTAEIAFQVKEQLLKHNIQQRVFGHYVLGLSQGSVSEILARPKPWRK  
LTVKGKEPFIKMKQFLSDEQNVLALRTIQVRQRGSITPRIRTPETGSDDAIKSILEQAKK  
EIESQKGGPKTSVAPLSIANGTTPASTSEDAIKSILEQARREMQAQQQALLEMEVAPRG  
RSVPPSPPERPSLATASQNGAPALVKQEEGSGGPAQAPLPVLSAAAFVQSIIRKVKSEIG  
DAGYFDHHWASDRGLLSRPYASVSPSLSSSSSSGYSGQPNGRAWPRGDEAPVPPPEDEAAA  
GAEDEPRTGELKAEGATAEAGARLPYYPAYVPRTLKPTVPPLTPEQYELMYREVDLTLE  
LTRQVKEKLAKNGICQRIFGEKVLGLSQGSVSDMLSRPKPWSKLTQKGREPFIRMQLWLS  
DQLGQAVGQQPGASQASPTSPSPSPSPTEPEKSSQEPLSLSLESSKENQQPEGRSS  
SSLSGKMYSGSQAPGGIQEIVAMSPELDTYSITKRKVEVLTNNLGQRLFGESILGLTQG  
SVSDLLSRPKPWHKLSLKGREPFVRMLWLNDPHNVEKLRDMKKLEKKAYLKRRYGLIST  
GSDSESPATRSECPSPCLQPQDLSLLQIKKPRVVLAPEEKEALRKAYQLEPYPSQQTIEL  
LSFQLNLKNTNTVINWFHNYRSRMRREMLVEGTQDEPDLDPSGGPGILPPGHSHPDPTPQS  
PDSETEDQKPTVKELELQEGPEENSTPLTTQDKAQVRIKQEQMEEDAEEEEAGSQPQDSGE  
LDKGQGPPEEHDPGNDGLPKVAPGPLLPGGSTPDCPSLHPQEQESEAGERLHPDPLSF  
KSASESSRCSLEVSLSNPSAASSPGLMMSVSPVPSSSAPISPSPPGAPPAKVPSASPTAD  
MAGALHPSAKVNPNLQRRHEKMANLNNIYRVERAANREEALEWEF

>sp|095567|CV031\_HUMAN Uncharacterized protein C22orf31 OS=Homo sapiens GN=C22orf31 PE=2  
SV=1

MHPINVRDRPSIPIYGLRQSILLNTRLQDCYVDSPALTNIMWARTCAKQINAPAPATTS  
SWEVVRNPLIASSFSLVKLVLRRLQKKNCCPPPCFKFGEGLSKRLKHKDDSVMKATQQAR  
KRNFISSKSKQPAGHRRPAGGIRESKESKEKKLTVRQDLEDRYAEHVAATQALPQDSGT  
AAWKGRVLLPETQKRQQLSEDTLTIHGLPTEGYQALYHAVVEPMLWNPSGTPKRYSLLELG  
KAIKQKLWEALCSQGAISEGAQRDRFPGRKQPGVHEEPVLKKWPKLSKK

>sp|C9J442|CV046\_HUMAN Uncharacterized protein C22orf46 OS=Homo sapiens GN=C22orf46 PE=2  
SV=1

MLLSLLGACAVVGPFHGPWEVPVQGLLSQNHSCRDPQCCGNLLVLCLFLVWQVRHCWHQV  
TRTRFSTRNVIKVLQKRAVPSMRCEVFKLTPEFFSPGKSRGLDSQQCAQRQRWGYRRS  
LQESWAQNLLSPQHPCPGPPSGVHTHSEPIFCTTISINTCLLPQNSSWKAQVPWCLHDG  
QTRPALDMCQEMEQLLLHSQERLVSLEPVISVRSRPTSMTLTTSPLNLLSAERLQFCPQR  
APA

>sp|Q8TE69|CX04A\_HUMAN Protein CXorf40A OS=Homo sapiens GN=CXorf40A PE=1 SV=2

MKFGCLSFRQPYAGFVLNGIKTVETRWRPLSSQRNCTIAVHIAHRDWEQDAWRELLVER  
LGMTPAQIQTLRLKGEKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAVLTNLKQKY  
LTVISNPRWLLEPIPRKGGKDVQVDIPEHLIPLGHEV

>sp|043927|CXL13\_HUMAN C-X-C motif chemokine 13 OS=Homo sapiens GN=CXCL13 PE=1 SV=1

MKFISTSLLLMLLVSSLSVPVQGVLEVYYTSLRCRCVQESSVFIPRRFIDRIQILPRGNGC  
PRKEIIVWKKNSIVCVDPAEWIQRMMEVLRKRSSSTLPVPVFKRKIP

>sp|Q8WXC6|CSN9\_HUMAN COP9 signalosome complex subunit 9 OS=Homo sapiens GN=COPS9 PE=1  
SV=3

MKPAVDEMPEGAGPYVDLDEAGGSTGLLMDLAANEKAVHADFFNDFEDLFDDDDIQ

>sp|PODMU7|CT456\_HUMAN Cancer/testis antigen family 45 member A6 OS=Homo sapiens GN=CT45A6  
PE=2 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSLIIAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTGFSKDGMMQKPGSNAPVGGNVTSSFSGDDLECRETASSPKSQR  
EINADIKRKLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFFESI IKEAARCMRRDFVKH  
LKKKLKRM

>sp|O14595|CTDS2\_HUMAN Carboxy-terminal domain RNA polymerase II polypeptide A small  
phosphatase 2 OS=Homo sapiens GN=CTDSP2 PE=1 SV=2

MEHGSIIITQARREDALVLTQGLVSKSSPKKPRGRNIFKALFCCFRAQHVGQSSSSTELA  
AYKEEANTIAKSDLLQCLQYQFYQIPGTCLLPEVTEEDQGRICVVIDLDETLVHSSFKPI  
NNADFIPIEIEGTHQVYVLKRPYVDEFLRRMGELFECVLFTASLAKYADPVTDLDR  
GVFRARLFRESCVFHQGCYVKDLSRLGRDLRKTILDNPSASYIFHPENAVPVQSWFDDM  
ADTELLNLIPIFEELSGAEDVYTSLGQLRAP

>sp|Q86UF2|CTGE6\_HUMAN cTAGE family member 6 OS=Homo sapiens GN=CTAGE6 PE=2 SV=2

MEEPGATPQPYLGLVLEELRRVVAALPESMRPDENPYGFPSELVCAAVIGFFVLLFLW  
RSFRSVRSRLVYGREQKLGATLSGLIEEKCKLLEKFSLIQKEYEGYEVESSELDASFEKA  
AAEEARSLEATCEKLNRSNSELEDEILCLEKDLKEEKSQDELMAISKSIQSLEDE  
SKSLKSQIAEAKIICKTFKMSEERRAIAIKDALNENSQLQTSHKQLFQQEAEVWKGVESE  
LNKQKITFEDSKVHAEQVLNDKENHIKTLTGHLPMMDQAAVLEEDTDDDNLELEVNSQ  
WENGANLDDPLKGALKKLIHAAKLVSLKSLEGERNHIIQLSEVDKTEELTEHIKNLQ  
TQQESLQSENIYFESENQKLQKLIKIMTEFYQEDMKLYRKLTVENYRIEEEEKLSKVE  
EKLSRATEQLETYRKLAKDLEELERTVHFYQKQVISYEKRGHDNLAAARTAEARNLSDLR  
KENAHNKQKLTETELKFELLEKDPNALDVSNTAFGREHAPNGPAPLGQRSSSETRAFLSPQ  
TLLEDPLGLSPVLPEGGGRGPRGPNLDHQITNERGEPSCDRLTDPHRAPSDTGSLSSP  
VEQDCKMMFPPPGQSYPDALPPQREDRFYSNSERLSGSAEPRSFKMTSLDKMDGSMPS  
MESSRNDKDDLGNLNPDSPLAENEATGPGFIPPLAPVRGPLFPVDTRGPFMRRGPP  
FPPPPPGTMFGASRGYFPPRDFPGPPHAPFAMRNIYPPRGLPPYFHPRPFGFYPNPAF

>sp|A4FU28|CTGE9\_HUMAN cTAGE family member 9 OS=Homo sapiens GN=CTAGE9 PE=2 SV=2

MEEPGATPQPYLGLVLEELGRVVAALPESMRPDENPYGFPSELVCAAVIGFFVLLFLW  
RSFRSVRSRLVYGREQKLGATLSGLIEEKCKLLEKFSLIQKEYEGYEVESSELDASFEKA  
AAEEARSLEATCEKLSRSNSELEDEILCLEKDLKEEKSQDELMAISKSIQSLEDE  
SKSLKSQIAEAKIICKTFKMSEERRAIAIKDALNENSQLQTSHKQLFQQEAEVWKGQVSE  
LNKQKITFEDSKVHAEQVLNDKENHIKTLTGHLPMMDQAAVLEEDTDDDNLELKVNSQ  
WENGANLDDPPKGALKKLIHAAKLVSLKSLEGERNHIIQLSEVDKTEELTEHIKNLQ  
TQQASLQSENIYFESENQKLQKLIKIMTEFYQENEMKLYRKLTVENYRIEEEEKLSRVE  
EKISHATEELETYRKLAKDLEELERTVHFYQKQVISYEKRGHDNLAAARTAEARNLSDLR  
KENAHNKQKLTRELKFELLEKDPNALDVSNTAFGREHSPCSPSPLGRPSSETRAFPSPQ  
TLLEDPLRLSPVLPGGGGRGPSSPGNLDHQITNERGEPSTDRIDPHRAPSDTGSLSSP  
VEQDRMMFPPPGQSYPDSTLPPQREDRFYSNSERLSGPAEPRSFKMTSLDKMDRSMPS  
MESSRNDKDDLGNLNPDSPLAENEATGPGFIPPLAPISGPLFPVDTRGPFMRRGPP  
FPPPPPGTMFGASRGYFPPRDFPGPPHAPFAMRNIYPPRGLPPYLHPRPGFYPNPTF

>sp|Q96CG8|CTHR1\_HUMAN Collagen triple helix repeat-containing protein 1 OS=Homo sapiens  
GN=CTHRC1 PE=1 SV=1

MRPQGPAASPQRLRGLLLLLLLQLPAPSSASEIPKGKQKAQLRQREVVDLYNGMCLQGPA  
GVPGRDGSPGANGIPGTPGIPGRDGFKEKGECLRESFEESWTPNYKQCSWSSLNYGIDL  
GKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAI IYLDQ  
GSPENNSTINIHRSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNSVSRIIIEE  
LPK

>sp|P30825|CTR1\_HUMAN High affinity cationic amino acid transporter 1 OS=Homo sapiens  
GN=SLC7A1 PE=1 SV=1

MGCKVLLNIGQQMLRRKVVDSCREETRLSRCLNTFDLVALGVGSTLGAGVYVLAGAVARE  
NAGPAIVISFLIAALASVLAGLCYGEFGARVPKTGSAYLYSYVTVGELWAFITGWNILS  
YIIGTSSVARAWSATFDELIGRPIGEFSRTHMTLNAPGVLAENPDIFAVIIILILTGLLT  
LGVKESAMVNKIFTCINVLVLGFIMVSGFVKGSVKNWQLTEEDFGNTSGRLCLNNDTKEG  
KPGVGGFMPFGFSGVLGAATCFYAFVGFDCIATTGEEVKNPQKAIPVGIVASLLICFIA  
YFGVSAALTLMPYFCLDNNSPLPDAFKHVGWEGAKYAVAVGSLCALSASLLGSMFPMR  
VIYAMAEDGLLFKFLANVNDRTKTPIIATLASGAVAAMAFDLKDLVDLMSIGTLLAY  
SLVAACVLVRLYQPEQPNLVYQMASTDELDPADQNELASTNDSQLGFLPEAEMFSLKT  
LSPKNMEPSKISGLIVNISTSLIAVLIITFCIVTVLGREALTKGALWAVFLLAGSALLCA  
VVTGVIWRQPESKTKLSFKVPFLPVLPILSIFVNVYLMMLDQGTWVRFAVWMLIGFIY  
FGYGLWHSEEASLDADQARTPDGNLDQCK

>sp|P52569|CTR2\_HUMAN Cationic amino acid transporter 2 OS=Homo sapiens GN=SLC7A2 PE=1  
SV=2

MIPCRAALTFARCLIRRKIVTLDLSLEDTKLCRCLSTMDLIAALGVGSTLGAGVYVLAGEVA  
KADSGPSIVVSFLIAALASVMAGLCYAEFGARVPKTGSAYLYTYVTVGELWAFITGWNLI  
LSYVIGTSSVARAWSGTFDLLSKQIGQFLRTYFRMNYTGLAEYPDFFAVCLILLLAGLL  
SFGVKESAWNVKVFVAVNVLVLLFVMVAGFVKGNVANWKISEEFLKNISASAREPPSENG  
TSIYGAGGFMPYGTGTLAGAATCFYAFVGFDCIATTGEEVRNPQKAIPIGIVTSLLVCF  
MAYFGVSAALTLMPYLLDEKSLPVAFEYVGWGPAYVVAAGSLCALSTSLGSIIFPM  
PRVIYAMAEDGLLFKCLAQINSKTKTPIIATLSSGAVAALMAFLDLKALVDMMSIGTLM  
AYSLVAACVLILRYQPGLSYDQPKCSPEKDLGSSPRVTSKSESQVTMLQRQGFSMRTLF  
CPSLLPTQQSASLSVFLVGLAFLVLGLSVLTTYGVHAITREAWSLALLALFLVLFVAI  
VLTIWRRPQNQQKVAFMVPFLPFLPAFSILVNIYLMVQLSADTWVRFSIWMAIGFLIYFS  
YGIRHSLEGLHRDENNEEDAYPDNVHAAAEKSAIQANDHHPRLSSPFIFHEKTSEF

>sp|Q05D32|CTSL2\_HUMAN CTD small phosphatase-like protein 2 OS=Homo sapiens GN=CTDSPL2  
PE=1 SV=2

MRLRTRKASQQSNQIQRTARAKRKYSEVDDSLPSGGEKPSKNETGLLSSIKKFIKGST  
PKEERENPSKRSRIERDIDNNLITSTPRAGEKPNKQISRVRKRSQVNGEAGSYEMTNQHV  
KQNGKLEDNPSSGSPRRTLLGTIFSPVFNFSPANKNGTSGSDSPGQAVEAEEIVKQLD  
MEQVDEITTTSTTNGAAYSNAQAVQVRPSLNNGLEEAETVNRDIPPLTAPVTPDSGYS  
SAHAEATYEEDWEVFDPPYFIKHVPPLTEEQLNRKPALPLKTRSTPEFSLVLDLDELTVH  
CSLNELEDAALTFPVLFDQVIVYVYVRLRPFFREFLERMSQMYEIIIFTASKKVYADKLL  
NILDPKKQLVRHRLFREHCVCVQGNIIKDLNILGRDLSKTIIDNSPQAFAYQLSNGIPI  
ESWFMDKNDNELLKLI PFLEKLVELNEDVRPHIRDRFRLHDLLPPD

>sp|Q8NEC5|CTSR1\_HUMAN Cation channel sperm-associated protein 1 OS=Homo sapiens  
GN=CATSPER1 PE=1 SV=3

MDQNSVPEKAQNEADTNNADRFRRSHSSPPHHRPGHSRALHHYELHHHGVPHQRGESHHP

PEFQDFHDQALSSHVHQSHHHSEARNHGRAHGPTGFGGLAPSQGAVPSHRSYGEDYHDELQ  
RDGRRHHDGSQYGGFHHQSDSHYHRGSHHGRPQYLGENLSHYSSGVPHHGEASHHGGSYL  
PHGPNPYSESFHHSEASHLSGLQHDESHHHQVPHRGWPHHHQVHHHGRSRHHEAHQHKGKS  
PHHGETISPHSSVGSYQRGISDYHSEYHQGDHHPSEYHHGDHPHTQHYYHQTHRHRDYH  
QHGDHHGAYHSSYLHGDIVQSTSQLSIPHTSRSLIHDAPGPAASRTGVFPYHVAHPRGSA  
HSMTRSSSTIRSRVTQMSKKVHTQDISTKHSEDWGKEEGQFQKRKTGRLQRTRKKGHSTN  
LFQWLWEKLTFLIQGFREMIRNLTQSLAFETFIFFVVCLNTVMLVAQTFAEVEIRGEWYF  
MALDSIFFCIYVVEALLKIIALGLSYFFDFWNNLDDFFIMAMAVLDFLLMQTHSFAIYHQS  
LFRILKVFKSLRALRAIRVLRRLSFLTSTVQEVGTGLGQSLPSIAAILILMFTCLFLFSAV  
LRALFRKSDPKRFQNIFTTIFTLFTLLTDDWSLIYMSRAQGAWYIIPILVIYIIIIQYF  
IFLNLVITVLVDSFQTALFKGLEKAKQERAARIQEKLLDSLTELRAAEPKEVASEGTML  
KRLIEKKFGTMEKQKQELLFHYLQLVASVEQEQQKFRSQAVIDEIVDTTFEAGEEDFRN

>sp|Q9UJ94|CU104\_HUMAN Putative uncharacterized protein encoded by LINC00527 OS=Homo sapiens GN=LINC00527 PE=5 SV=2

MEGCLRIEEALTLGGACLFAGLAFLWAAFAQHFSAADSPGTEFTPATTSRLLHVLVCS  
CSLVAEKDDFSSPHSHSLLLVSLEPHFELSEGLRLAFRGSQSSDSIRYRRGGNEGVRPW  
RAGATGLPPTGKDISVSLAHELYSLLKQLQMSI

>sp|Q13618|CUL3\_HUMAN Cullin-3 OS=Homo sapiens GN=CUL3 PE=1 SV=2

MSNLSKGTGSRKDTKMRIRAFPMTMEKYVNSIWDLLKNAIQEIQRKNNSGLSFEELYRN  
AYTMVLHKHGEKLYTGLREVTEHLINKVREDVLNSLNNNFLQTLNQAWNDHQAMVMIR  
DILMYMDRVYVQQNNVENVYNGLIIFRDQVVRYGCIIRDHLRQTLLDMIARERKGEVVD  
GAIRNACQMLMILGLEGRSVYEEDFEAPFLEMSAEFFQMESQKFLAENSASVYIKKVEAR  
INEEIERVMHCLDKSTEELIVKVERELISKHMKTIIVEMENSGLVHMLKNGKTEDLGCMY  
KLFSRVPNGLKTMCECMSSYLREQKALVSEEGEGKNPVDYIQGLLDLKSFRDRFLLESF  
NNDRLFQKTIAGDFEYFLNLSRSPEYLSLFIDDKLKKGVKGLTEQEVETILDKAMVLF  
FMQEKDVFERYYKQHLARRLLTNKSVSDDSEKNMISKLKTECGCQFTSKLEGMRDMSIS  
NTTMDEFRQHLQATGVSLGGVDLTVRVLTGTGYWPTQSATPKCNIPPAPRHAFEIFRRFY  
AKHSGRQLTLQHMHMSADLNATFYGPVKKEDGSEVGVGGAQVTGSNTRKHILQVSTFQMT  
ILMLFNNREKYTFEEIQQETDIPERELVRALQSLACGKPTQRVLTKEPKSKEIENGHIFT  
VNDQFTSKLHRVKIQTVAAKQGESDPERKETRQKVDDDRKHEIEAAIVRIMKSRRKKMQHN  
VLVAEVTQQLKARFLPSPVVIKKRIEGLIEREYLARTPEDRKVYTYVA

>sp|Q14999|CUL7\_HUMAN Cullin-7 OS=Homo sapiens GN=CUL7 PE=1 SV=2

MVGELRYREFRVPLGPLHAYPDELIRQRVGHDGHPEYQIRWLILRRGDEGDGGSGQVDC  
KAEHILLWMSKDEIYANCHKMLGEDGQVIGPSQESAGEVGALDKSVLEEMETDVKSLIQR  
ALRQLEECVGTIPPAPLLHTVHVL SAYASIEPLTG VF KDPRVLDLLMHMLSSPDYQIRWS  
AGRMIQALSSHDAGTRTQILLSLQQEAIEKHLDFDSRCALLALFAQATLSEHPMSFEGI  
QLPQVPGRVFLSVKRYLHVTSLLDQLNDSAAEPGAQNTSAPEELSGERGQLELEFSMAM  
GTLISELVQAMRWDQASDRPRSSARSPGSIFQPQLADVSPGLPAAQAQPSFRRSRFRPR  
SEFASGNTYALYVRDTLPQGMVRMLDDYEEISAGDEGEFRQSNGVPPVQVFWESTGRT  
YVWHWHMLEILGFEEDIEDMVEADEYQGAVASRVLGRALPAWRWRPMTELYAVPYVLPED  
EDTEECEHLTLAEWWELLFFIKKLDGPDHQEVLQILQENLDGEILDDEILAELAVPIELA  
QDLLLLTLPQRLNDSALRDLINCHVYKKYGPEALAGNQAYPSLLEAQEDVLLDDAQAQAKD  
SEDAKVEAKEPPSQSPNTPLQRLVEGYGPAGKILLDLEQALSSEGTQENKVKPLLLQLQ  
RQPQPFLALMQSLDTPETNRTLHLTVLRILKQLVDFPEALLLPWHEAVDACMACLRSPNT

DREVLQELIFFLHRLTSVSRDYAVVLNQLGARDAI SKALEKHLGKLELAQELRDMVFKCE  
KHAHLYRKLITNILGGCIQMVLGQIEDHRRTHQPINIPFFDVFLRYLCQGSSVEVKEDKC  
WEKVEVSSNPHRASKLTDHNPPTYWESNGSAGSHYITLHMRRGILIRQLTLLVASEDSSY  
MPARVVVCGGDSTSSLHTELNSVNVMPASRVILLENLTRFWPIIQIRIKRCQQGGIDTR  
IRGLEILGPKPTFWPVFREQLCRHTRLFYMVRAQAWSQDMAEDRRSLLHLSSRLNGALRQ  
EQNFADRFLPDDEAAQALGKTCWEALVSPVVQNITSPDEDGISPLGWLLDQYLECQEAVF  
NPQSRGPAFFSRVRLTHLLVHVEPCEAPPPVATPRPKGRNRSHDWSSLATRGLPSSIM  
RNLTRCWRAVVEKQVNNFLTSSWRDDDFVPRYCEHFNILQNSSSELFGPRAAFLALQNG  
CAGALLKLPFLKAAHVSEQFARHIDQQIQGSRIGGAQEMERLAQLQQCLQAVLIFSGLIEI  
ATTFEHYHYHYMADRLLGVVSSWLEGAVLEQIGPCFPNRLPQQMLQSLSTSKELRQRFHV  
YQLQQLDQELLKLEDTEKKIQVGLGASGKEHKSEKEEEAGAAVVDVAEGEEEEENEDL  
YYEGAMPEVSVLVLSRHSWPVASICHTLNPRTCLPSYLRGTLNRYSNFYNKSQSHPALER  
GSQRLQWTWLGWAEQFGNQLHVSTVQMWLLLYLNDLKAVSVESLLAFSGLSADMLNQ  
AIGPLTSSRGPLDLHEQKDIPGGVLKIRDGSKEPRSRWDIVRLIPPQTYLQAEGEDGQNL  
EKRRNLLNCLIVRILKAHGDEGLHIDQLVCLVLEAWQKGCPPRGLVSSLGKGSACSSTD  
VLSCILHLLGKGTLLRRHDDRPQVLSYAVPVTVMEPHTESLNPSSGNPPLTFHTLQIRS  
RGVPYASCTATQSFSTFR

>sp|Q8IWT3|CUL9\_HUMAN Cullin-9 OS=Homo sapiens GN=CUL9 PE=1 SV=2

MVGERHAGDLMVPLGPRLQAYPEELIRQRPBGHDGHPYLRWSVLKCGEVGKVGVEEGKA  
EHILMWLSAPEVYANCPGLLGERALSGLQHEPAGVSGSFPRDPGGLDEVAMGEMEADVQ  
ALVRRARQLAESGTPSLTAAVLHTIHVLSAYASIGPLTGVFRETGALDMLMHMLCNPEP  
QIRRSAGKMLQALAAHDAGSRAHVLLSLSQQDQIEQHMDFDSRYTLLELFAETTSSEHC  
MAFEGIHLPQIPGKLLFSLVKRYLCVTSLLDQLNSSPELGAGDQSSPCATREKSRGQREL  
EFMAVGNLISELVRSMGWARNLSEQGMSPPRPTRSIFQPYISGPSLLLPTIVTTPRRQG  
WVFRQRSEFSSRSGYGEYVQQLQPGMRVRMLDDYEEISAGDEGEFRQSNNGIPPVQVFW  
QSTGRTYVWHWHMLEILGPEEATEDKASAAVEKGAGATVLGTAFPSWDWNPMGLYPLPY  
LQPEPQKNERVGYLTQAEWWELLFFIKKLDLCEQQPIFQNLWKNLDETGEKALGEISVS  
VEMAESLLQVLSSRFEGSTLNDLLNSQIYTKYGLLSNEPSSSSTSRNHSCTPDPEEESKS  
EASFSEETESLKAKAEAPKTEAEPKTRTETPMAQSDSQLFNQLLVTEGMTLPTEMKEA  
ASEMARALRGPGPRSSLDQHVAAVVATVQISSLDTNLQSLGALSQAVEEVTERDHPLV  
RPDRSLREKLVKMLVELLTNQVGEKMVVVQALRLLYLLMTKHEWRPLFAREGGIYAVLVC  
MQEYKTSVLVQQAGLAALKMLAVASSEIPTFVTGRDSIHSLFDAQMTREIFASIDSATR  
PGSESLLLTVPAAVILMLNTEGCSSAARNGLLLNLLCNHHTLGDQIITQELRDTLFRH  
SGIAPRTEPMPTRTILMMLLNRYSEPPGSPERAALETPIIQGGDGSPELLIRSLVGGPS  
AELLDLERVLCREGSPGGAVRPLLKRLQKETQPFLLLRTLDAFGPNKTLLLSVLRVIT  
RLDFPEAMVLPWHEVLEPCNLCLSGPSSDSEIVQELTCFLHRLASMHKDYAVVLCCLGA  
KEILSKVLDKHSQALLGCELRLVTECEKYAQLYSNLTSILAGCIQMVLGQIEDHRRTH  
HQPINIPFFDVFLRHLGQSSVEVKEDKCWEKVEVSSNPHRASKLTDHNPPTYWESNGST  
GSHYITLHMHRGVLVRQLTLLVASEDSSYMPARVVVFGGDSTSCIGTELNTVNVMPASR  
VILLENLNRFWPIIQIRIKRCQQGGIDTRVRGVEVLGPKPTFWPLFREQLCRRTCLFYTI  
RAQAWSRDAEDHRRLLQLCPRLNRVLRHEQNFADRFLPDDEAAQALGKTCWEALVSPLV  
QNITSPDAEGVSALGWLLDQYLEQRETSRNPLSRAASFASRVRLCHLLVHVEPPPGPSP  
EPSTRPFSKNSKGRDRSPASPVLSSSLRNITQCWLSVVQEVSFRFLAAAWRAPDFVPR  
YCKLYEHLQRAGSELFGPRAAFMLALRSGFSGALLQQSFLTAAHMSEQFARYIDQQIQGG

LIGGAPGVEMLGQLQRHLEPIMVLSGLELATTFEHFYQHVMADRLLSFGSSWLEGAVLEQ  
IGLCFPNRLPQLMLQSLSTSEELQRQFHLFQLQRLDKLFLEQEDEEEKRLEEEEEEEEEEE  
EAEKELFIEDPSPAISILVLSPRCWPVSPLCYLHPRKCLPTEFCDALDRFSSFYSSQN  
HPVLDMGPHRRLQWTWLGRAELQFGKQILHVSTVQMWLLLKFNQTEEVSVETLLKDSLS  
PELLLQALVPLTSGNGPLTLHEGQDFPHGGVRLHEPGPQRSGEALWLIPPQAYLNVEKD  
EGRTLEQKRNLSSCLLVRIKHAHGEKGLHIDQLVCLVLEAWQKGNPPGTLGHTVAGGVA  
CTSTDVLSCILHLLGGQYVKRRDDRPQILMYAAPEPMGPCRQADVPFCGSQSETSKPSP  
EAVATLASLQLPAGRTMSPQEVEGLMKQTVRQVQETLNLEPDVAQHLLAHSHWGAEQLLQ  
SYSEDEPEPLLLAAGLCVHQAQAVPVRPDHCPVCVSPLGCDDDLPSLCCMHYCKSCWNEY  
LTTRIEQNLVLNCTCPIADCPAQPTGAFIRAIVSSPEVISKYEKALLRGYVESCSNLTWC  
TNPQGCDRILCRQGLGCGTTCSKCGWASCFNCSFPEAHYPASCGHMSQWVDDGGYYDGMS  
VEAQSKHLAKLISKRCPSQAPIEKNEGCLHMTCAKCNHGFWRCLKSWKPNHKDYNC  
AMVSKAARQEKRFQDYNERCTFHHQAREFAVNLNRVSAIHEVPPPRSFTFLNDACQGLE  
QARKVLAYACVYSFYSDAEYMDVVEQQTENLELHTNALQILLEETLLRCRDLASSRL  
RADCLSTGMELLRRIQERLLAILQHSAQDFRVGLQSPSVEAWEAKGNPMGPSQPQASSGP  
EAEDEDEDEDDVPEWQQDEFDEELDNDSSFSYDESENLDQETFFFGDEEEDDEAYD

>sp|Q9Y442|CV024\_HUMAN Uncharacterized protein C22orf24 OS=Homo sapiens GN=C22orf24 PE=2 SV=1

MTTQEDTTGLHQKTSWMTSRPGAKKVMNSYFIAGCPAVCYAVSWLRQGFSINLTSFG  
RIPWPHAGVGTCPSPQSWISPLQSHREHHYAKTSSHSQSPQSLALCLAYSRCINICQ  
MTECISLASGCHQALREPGRSEESFWIPATPYISNIFSES

>sp|Q8TF08|CX7B2\_HUMAN Cytochrome c oxidase subunit 7B2, mitochondrial OS=Homo sapiens GN=COX7B2 PE=3 SV=2

MMFPLARNALSSSLKIQSILQSMARHSHVKHSPDFHDKYGNVAVLASGTAFCVATWVFTATQ  
IGIEWNLSPVGRVTPKEWKHQ

>sp|P80162|CXCL6\_HUMAN C-X-C motif chemokine 6 OS=Homo sapiens GN=CXCL6 PE=1 SV=4

MSLPSSRAARVPGPSGLCALLALLLLTPPGPLASAGPVSAVLTELCTCLRVTLRVNP  
KTIGKLQVFPAGPQCSKVEVASLKNKGQVCLDPEAPFLKKVIQKILDSGNKK

>sp|P25025|CXCR2\_HUMAN C-X-C chemokine receptor type 2 OS=Homo sapiens GN=CXCR2 PE=1 SV=2

MEDFNMESDSFEDFWKGEDLSNYSYSTLPPFLDAAPCEPESLEINKYFVVIIYALVFL  
LSLLGNSLVMLVILYSRVGRSVTDVYLLNLALADLLFALTLPWAASKVNGWIFGTFLCK  
VVSLLKEVNFYSYGILLACISVDRYLAIVHATRTLQKRYLVKFICLSIWGLSLLLALPV  
LLFRRTVYSSNVSPACYEDMGNTANWRMLLRILPQSFGFIVPLIMLFCYGFTLRTLTK  
AHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTLMTQVIQETCERRNHIDRALDATE  
ILGILHSCNPLIYAFIGQKFRHGLLKILAIHGLISKDSLKDSRPSFVGSSSGHTSTL

>sp|P36383|CXG1\_HUMAN Gap junction gamma-1 protein OS=Homo sapiens GN=GJC1 PE=1 SV=2

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGC  
ENVCYDAFAPLSHVRFWVFQIILVATPSVMYLGYAIIHKIAKMEHGEADKKAARSKPYAMR  
WKQHRALEETEEDNEEDPMYPMELES DKENKEQS QPKPHDGRRIREDGLMKIYVLQ  
LLARTVFEVGFLLIGQYFLYGQVHPFYVCSRLPCPHKIDCFISRPTKTIIFLLIMYGVTG  
LCLLLNIWEMLHLGFGTIRDSLNSKRRELEDPGAYNYPFTWNTPSAPPGYNIAVKPDQIQ  
YTELSNAKIAYKQNKANTAQEQYGSHEENLPADLEALQREIRMAQERLDLAVQAYSHQN  
NPHGPREKKAKVGSKAGSNKSTASSKSGDGKTSVWI

>sp|O14625|CXCL11\_HUMAN C-X-C motif chemokine 11 OS=Homo sapiens GN=CXCL11 PE=1 SV=1

MSVKGMAIALAVILCATVVQGPFMFKRGRCLCIGPGVKAVKVADIEKASIMYPSNNCDKI  
EVIITLKENKGQRCLNPKSKQARLIKKVERKNF

>sp|P02778|CXCL10\_HUMAN C-X-C motif chemokine 10 OS=Homo sapiens GN=CXCL10 PE=1 SV=2

MNQTALILCCLIFLTLSGIQGVPLSRTVRCISISNPVNPRSLEKLEIIPASQFCPRV  
EIIATMKKKGEKRCCLNPESKAIAKLLKAVSKERSKRSP

>sp|O00622|CYR61\_HUMAN Protein CYR61 OS=Homo sapiens GN=CYR61 PE=1 SV=1

MSSRIARALALVVTLLHLTRLALSTCPAACHCPLEAPKCAPGVGLVRDGCCKVCAKQL  
NEDCSKTQPCDHTKGLECNFGASSTALKGICRAQSEGRPCSEYNSRIYQNGESFQPNCKHQ  
CTCIDGAVGCIPLCPQELSLPNLGCPNPRLVKVTGQCCEEWVCEDSIKDPMEDQDGLLG  
KELGFDASEVELTRNNELIAVGKGSSLRPLVFGMEPRILYNPLQGQKCIVQTTWSQCS  
KTCGTGISTRVTNDNPECLVKETRICEVRPCGQPVYSSLLKKGKCSKTKKSPEPVRFY  
AGCLSVKKYRPKYCGSCVDGRCCTPQLTRTVKMRFRCEGETFSKNVMMIQSCKCNYNCP  
HANEAAPFFYRLFNDIHKFRD

>sp|Q6PD62|CTR9\_HUMAN RNA polymerase-associated protein CTR9 homolog OS=Homo sapiens  
GN=CTR9 PE=1 SV=1

MSRGSIEIPLRDTDEVIELDFDQLPEGDEVISILKQEHTQLHIWIALALEYYKQGKTEEF  
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DKIIMYDQNHLLGRACFCLLEGDKMDQADAQHFVNLQSPNNIPALLGKACISFNKKDYR  
GALAYYKALRTNPGCPAEVRLGMGHCFVKLNKLEKARLAFSRALELNSKCVGALVGLAV  
LELNKEADSISKNGVQLLSRAYTIDPSNPMVLNHLANHFFFKDYSKVQHLALHAFHNT  
VEAMQAESCYQLARSFHVQEDYDAFQYYYQATQFASSSFVLPFFGLGQMYIYRGDKENA  
SQCFEVLKAYPNNYETMKILGSLYAASEDQEKRDIAKGHLKKVTEQYPDDVEAWIELAQ  
ILEQTDIQGALSAYGTATRILQEKVQADVPEILNNVGALHFRLGNLGEAKKYFLASLDR  
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ARDKGNFYEASDWFKEALQINQHPDAWSLIGNLHLAKQEWGPGQKKFERILKQPSTQSD  
TYSMLALGNVWLQTLHQPTRDREKEKRHQDRALAIYKQVLRNDAKNLYAANGIGAVLAHK  
GYFREARDVFAQVREATADISDVWLNLAHIYVEQKQYISAVQMYENCLRKFYKHQNTFV  
LYLARALFKCGKLQECKQTLKARHVAPSDTVLMFNVALVLQRLATSVLKDEKSNLKEVL  
NAVKELELAHRYFSYLSKVGDKMRFDLALAATEARQCSDLLSQAQYHVARARKQDEEERE  
LRAKQEQEKELLRQKLLKEQEEKRLREKEEQKLLQRAQYVEKTKNIMFTGETEATKE  
KKRGGGGRRSKKGEFDEFVNDTDDDLPISSKKRRKSGSGSEGEDEEGGERKKKKR  
RRHPKGEGSDDDETENGPKPKRRPPKAEEKKAPKPERLPSPMKGKIKSKAIISSSDDS  
SDEKDKLIADEGHPNNSNSNSDSEDEQRKKCASSESDSDENQNKSGSEAGSPRRPRRQR  
SDQSDSDQPSRKRPSGSEQSDNESVQSGRSHSGVSENDSRPASPSAESDHESERGSDN  
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>sp|Q4LDR2|CTXN3\_HUMAN Cortixin-3 OS=Homo sapiens GN=CTXN3 PE=3 SV=1

MDGGQPIPSLVPLGNESADSSMSLEQKMTFVFVILLFIFLGILIVRCFRILLDPYRSM  
TSTWADGLEGLEKGQFDHALA

>sp|Q9Y426|CU025\_HUMAN C2 domain-containing protein 2 OS=Homo sapiens GN=C2CD2 PE=1 SV=2

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DALLSWILTLGSWRSQWQAAWVTALNEEAERKGGPPFLSFEDPRQQAELVVQEVSSVL  
RSAEEKVVVCHVVGQAIQFLVSETPALGAGCRLYDMRLSPFHLQLEFHMKEKREDLQISW  
SFISVPEMAVNIQPKALGEDQVAETSAMSDVLKDILKHLGASASPSVVLITKPTTVKEAQ  
NLQCAASTAQESCPPKPPRAHELKLLVRNIHVLLLSEPGASGHINAVCVVQLNDPVQRFS



STLTKNTPDLMWEEFTFELNAKSKELHLQISEAGRSSEGLLATATVPLDLFKKQPSGPQ  
SFTLTSGSACGSSVLGSVTAEFSYMPEGELKSWPIPPPVPAKIEKDRTVMPCGTVVTTV  
TAVKTKPRVDVGRASPLSSDSPVKTIKVKVIEKDISVQAIACRSAPVSKTLSSSDTELL  
VLNGSDPVAEVAIRQLSESSKLKLSPRKKSTIIISGISKTSLSQDHDAALMQYTASVD  
STHQEDAPSHPERAAASAPPEEAESAQASLAPKPQEDELDSWDLEKEPQAAAWSSQVLLD  
PDGDELSESSMSVLEPGTAKKHKGGILRKGAKLFFRRRHQQKDPGMSQSHNDLVFLEQPE  
GSRKGITLTRILNKKLLSRHRNKNTMNGAPVEPCT

>sp|Q9NYP8|CU062\_HUMAN Uncharacterized protein C21orf62 OS=Homo sapiens GN=C21orf62 PE=2 SV=2

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CNCKTVLPLAVERTSYNGHLTIWFTDTSALGHLLNFTLVQDLKLSLCSTNTLPTEYLAIC  
GLKRLRINMEAKHPFPEQSLLIHSGGSDSREKPMWLHKGWQPCMYISFLDMALFNDSA  
FKSYSIENVTSIANNFPDFSYFRTPMPSNKSYYVVTFIY

>sp|Q6P5X5|CV039\_HUMAN UPF0545 protein C22orf39 OS=Homo sapiens GN=C22orf39 PE=1 SV=2

MCRCSLVLLSVDHEVPFSSFFIGWRTEGRAWRAGRPDMADGSGWQPPRPCEAYRAEWKLC  
RSARHFLHHYYVHGERPACEQWQRDLASCRDWEERRNAEAQSLCESERARVRAARKHIL  
VWAPRQSPPPDWHLPLPQEKDE

>sp|P24310|CX7A1\_HUMAN Cytochrome c oxidase subunit 7A1, mitochondrial OS=Homo sapiens GN=COX7A1 PE=1 SV=2

MQALRVSQALIRSFSSSTARNRFQNRVREKQKLFQEDNDIPLYLKGGIVDNILYRVMTLC  
LGGTVYSLYSLGWASFPRN

>sp|Q9Y6H8|CXA3\_HUMAN Gap junction alpha-3 protein OS=Homo sapiens GN=GJA3 PE=1 SV=4

MGDWSFLGRLLENAQEHSTVIGKVWLTVLFIFRILVLGAAEDVWGDEQSDFTCNTQQPG  
CENVCYDRAFPISHIRFWALQIIFVSTPTLIYLGHVLHIVRMEEKKKEREEEEQLKRESP  
SPKEPPQDNPSSRDDRGVRMAGALLRTYVFNIIFKTLFEVGFIAQQYFLYGFELKPLYR  
CDRWPCNTVDCFISRPTEKTIIFIFMLAVACASLLNMLEIYHLGWKKLKQGVTSRLGP  
DASEAPLGTADPPPLPPSSRPPAVAIGFPPYYAHTAAPLGQARAVGYPGAPPPAADFKLL  
ALTEARGKGQSAKLYNGHHLLMTEQNWANQAAERQPPALKAYPAASTPAAPSPVGSSSP  
PLAHEAEAGAAPLLLDGSGSSLEGSALAGTPEEEEQAVTTAAQMHQPPLPLGDPGRASKA  
SRASSGRARPDLAI

>sp|P57773|CXA9\_HUMAN Gap junction alpha-9 protein OS=Homo sapiens GN=GJA9 PE=2 SV=2

MGDWNLLGDTLEEVIHSTMIGKIWLTIIFRMLVLGAAEDVWNDEQSGFICNTEQPG  
CRNVCYDQAFPISLIRYVWLQVIFVSSPSLVYMGHALYRLRVLEEERQRMKAQLRVELEE  
VEFEMPRDRRRLEQELCQLEKRLNKAPLRGTLLCTYVIHIFTRSVVEVGFIMIGQYLLYG  
FHLEPLFKCHGHPCPNIIDCFVSRPTEKTIIFLLFMQSIATISLFLNILEIFHLGFKKIKR  
GLWGKYKLKKEHNEFHANKAKQNVAKYQSTSANSLKRLPSAPDYNLLVEKQTHAVYPSL  
NSSSVFQPNPDNHSVNDEKCILDEQETVLSNEISTLSTSCSHFQHISSNNNKDTHKIFGK  
ELNGNQLMEKRETEGKDSKRNYYSRGHRISIPGVAIDGENNMRQSPQTVFSLPANCDWKPR  
WL RATWGSSTEHENRGSPPKGNLKGQFRKGTVRTLPPSQGDSQSLDIPNTADSLGGLSFE  
PGLVRTCNNPVCPPNHVVSLTNNLIGRRVPTDLQI

>sp|P08034|CXB1\_HUMAN Gap junction beta-1 protein OS=Homo sapiens GN=GJB1 PE=1 SV=1

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVAAESVWGDEKSSFICNTLQPGC  
NSVCYDQFFPISHVRLWSLQLILVSTPALLVAMHVAHQHIEKKMLRLEGHDPLHLEEV  
KRHKVHISGTLWWTYVISVVFRLLEAVFMYVFYLLYPGYAMVRLVKCDVYPCNTVDCF

VSRPTEKTVFTVFM LAASGIC IILNVAEVVYLIIRACARRAQRRSNPPSRKSGSGFGRHLS  
PEYKQNEINKLLSEQDGS LKDILRRSPGTGAGLAEKSDRCSAC

>sp|075712|CXB3\_HUMAN Gap junction beta-3 protein OS=Homo sapiens GN=GJB3 PE=1 SV=1  
MDWKT LQALLSGVN KYSTAFGR IWSVVFVRVLVYVVA AERVWGD EQKDFDCNTKQPGC  
TNVCYD NYFPI SNIRLWALQLIFVTCPSLLVILHVAYREERERRHRQKHGDQCAKLYDNA  
GKKHGG LWWTYL FSLIFKLIIEFLFLYLLHTLWHGFNMPRLVQCANVAPCPNIVDCYIAR  
PTEKKIF TYFMVGASAVCIVLTICELCYLICH RVLRLGLHKDKPRGGCSPSSSASRASTCR  
CHHKLVE AGEVDPDPGN NKLQASAPNLTP I

>sp|095377|CXB5\_HUMAN Gap junction beta-5 protein OS=Homo sapiens GN=GJB5 PE=2 SV=2  
MNWSIF EGLLSGVN KYSTAFGR IWSLVFIFRVLVYLVT AERVWSDDHKDFDCNTRQPGC  
SNVCFDE FFPVSHVRLWALQLILVTCPSLLVMHVAYREVQEK RHREAHGENSGRLYLNP  
GKKRGG LWWTYVCSLVFKASVDIAFLYVFHSFY PKYILPPVVKCHADPCPNIVDCFISKP  
SEKNIFT LFMVATAA ICILLNLVELIYLVSKRCHECLAARKA QAMCTGHHPHGTTSSCKQ  
DDL LSGDLIFLGSD SHPPLLPDRPRDHVKKTIL

>sp|P42830|CXCL5\_HUMAN C-X-C motif chemokine 5 OS=Homo sapiens GN=CXCL5 PE=1 SV=1  
MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHP  
KMISNLQVFAIGPQCSKVEVVASLKNKEICLDPEAPFLKKVIQKILDGGNKEN

>sp|015255|CXX1\_HUMAN CAAX box protein 1 OS=Homo sapiens GN=FAM127A PE=2 SV=1  
MGGGRGLLGRET LGGGCSGEGPLCYWPPPGSPPAPSLRASLPLEPPRCPLRSCSLPRS  
ACLSRNSAPGSCCRPWASLWSEPPSPSSQPAPPMYIWTLSCAPAASWAPVTHWTDHPL  
PPLPSPLLPTRLPDDYIILPTDLRCHSHRHP SHPTDRLLLLVIWTHLGGIWAGHSPWTVI  
QTAGRPPRDLSPSARPISSPPPETSCVLA

>sp|Q9POU4|CXXC1\_HUMAN CXXC-type zinc finger protein 1 OS=Homo sapiens GN=CXXC1 PE=1 SV=2  
MEGDGSDPEPPDAGEDSKSENGENAPIYICIRKPDINCFMIGCDNCNEWFHGDCIRITEK  
MAKAIREWYCRECREKDPKLEIRYRHKKS RERDGNERDSSEPRDEGGGRKRPVPDPDLQR  
RAGSGTGVGAMLARGSASPHKSSPQPLVATPSQH HQQQQQQIKRSARMCGECEACRRTED  
CGHCDFCRDMKKFGGPNKIRQKCLRQCQLRARESYKYFPSSLSPVTPSESLPRRRPLP  
TQQQPQPSQKLGRIREDEGAVASSTVKEPPEATATPEPLSDEDLPLDPDLYQDFCAGAFD  
DHGLPWMSDTEESPFLDPALRKRAVKVKHVKRREKKSEKKKEERYKRHRQKQKHDKWKH  
PERADAKDPASLPQCLGPGCVRPAQPSSKYCSDDCGMKLAANRIYEILPQRIQQWQQSPC  
IAEEHGKLLERIRREQQSARTRLQEMERRFHELEAII LRAKQAVREDEESNEGDSDDT  
DLQIFCVSCGHPINPRVALRHMERCYAKYESQTSFGSMYPTRIEGATRLFCDVYNPQSKT  
YCKRLQVLCPEHSRDPKVPAD EVCGPLVRDVFELTGDFCRLPKRQCNRHWCWEKLRAE  
VDLERVRVWYKLDLFEQERNVRTAMTNRAGLLALMLHQT IQHDPLTTDLRSSADR

>sp|Q69YQ0|CYTSA\_HUMAN Cytospin-A OS=Homo sapiens GN=SPECC1L PE=1 SV=2  
MKKASRSVGSVPKVS AISKTQTAEKIKPENSSSASTGGKLVKPGTAASLSKTKSSDDLLA  
GMAGGVTVTNGVGK GKSTCPSAAPSASAPAMTTVENKSKISTGTASSTKRSTSTGNKESS  
STRERLRERTRLNQSKKLPSAGQGANDMALAKRSRSRTATECDVRMSKSKSDNQISDRAA  
LEAKVKDLLTLAKTKDVEILHLRNELRDMRAQLGINEDHSEGDEKSEKETIMAHQPTDVE  
STLLQLQEQNTAIREELNQLKNENRMLKDRLNALGFSLEQRLDNSEKLFQYQSLSP EITP  
DNQSDGGGTLTSSVEGSAPGSVEDLLSQDENTLMDHQHSNSMDNLDSECSEVYQPLTSSD  
DALDAPSSSESEGI PSIERSRKSSGNASEVSVACLTERIHQMEENQHSTSEELQATLQE  
LADLQQITQELNSENERLGEEKVILMESLCQQSDKLEHFSRQIEYFRSLLDEHHISYVID  
EDVKSGRYMELEQRYMDLAENARFEREQLLGVQQHLSNTLKMAEQDNKEAQEMIGALKER

SHHMERII ESEQKGKAAALATLEEKATVASDQIEMNRLKAQLENEKQKVAELYSIHNSG  
DKSDIQDLLESVRDLKEKAETLASSLQEDLAHTRNDANRLQDAIAKVEDEYRAFQEEAKK  
QIEDLNMTLEKLRSDDLKETERSDMKETIFELEDEVEQHRAVKLHDNLIISDLENTVKK  
LQDQKHDMEIREIKTLHRRLREESAERWFQADLQTAVVIANDIKSEAQEEIGDLKRRLHE  
AQEKNEKLTKELEEIKSRKQEEERGRVYNYMNAVERDLAALRQGMGLSRRSSTSSEPTPT  
VKTLIKSFDSASQVPNPAIAAIPRTPLSPSPMKTPPAAVSPMQRHSISGPISTSKPLTA  
LSDKRPNYGEIPVQEHLRTSSASRPASLPRVPAMESAKTLSVSRRSSEEVKRDISAQEG  
ASPASLMAMGTTSPQLSLSSSPTASVTPTTRSRIEERKDPLSALAREYGGSKRNALLKW  
CQKKTGYQNIDITNFSSSWNDGLAFCALLHTYLPAPHYPYQELNSQDKRRNFMLAFQAAE  
SVGIKSTLDINEMVTERPDWQNVMLYVTAIYKFET

>sp|Q8WUS8|D42E1\_HUMAN Short-chain dehydrogenase/reductase family 42E member 1 OS=Homo sapiens GN=SDR42E1 PE=2 SV=2

MDPKRSQKESVLITGGSGYFGFRLGCALNQNGVHVILFDISSPAQTIPEGIKFIQDIRH  
LSDVEKAFQDADVTCVFHIIASYGMSGREQLNRNLIKEVNVRGTDNILQVCQRRRVPRLVY  
TSTFNVIFGGQVIRNGESLPYLPPLHLPDHSRTKSIAEQKLEANATPLDRGDGVLRT  
CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHVDNLVQAHILASEALR  
ADKGHIASGQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCFAFLTEMVHFI  
LGRLYNFQPFTRTEVYKTVTHYFSLEKAKKELGYKAQPFDLQEAVEWFKAHGHGRSSG  
SRDSECFVWDGLLVFLIIAVLMWLPSSVILSL

>sp|A6NKP2|D42E2\_HUMAN Putative short-chain dehydrogenase/reductase family 42E member 2 OS=Homo sapiens GN=SDR42E2 PE=3 SV=3

MKSNPPRSSLEACKAAGQAPQKTKAQPTKAARQKVLVTGGGGYLGFSLGSHLAKSGTSV  
ILLDRRRPQWELSPETKFIQADVRDEEALYRAFEGVDCVFHVASYGMSGAEKLQKEQIES  
INVGGTKLVIDVCVRRRVPRLIYTSTVNVAFGGKPIEQGDEDSVPYFPLDEHVDHYSRTK  
AIADQLTLMANGMPLPGGTLRTCVLRPPGIYGPEEQRHLPRVAGHIKKRLFMFRFGDHK  
ARMNWVHVHNLVQAHVLAEEALTTAKGYVASGQAYYINDGESVNLFEWMAPLFEKLGYSQ  
PWIQVPTSWVYLTAAMERLHLALRPICSLPPLTRSEVRSVAVTHTFQIAKARAQLGYA  
PDKFRFADAVELYVQSTTRRPRGSTARTLLRLLRLLLFLGLLALALHFLGLQPLHAAVE  
RL

>sp|AOPJW8|DAPL1\_HUMAN Death-associated protein-like 1 OS=Homo sapiens GN=DAPL1 PE=1 SV=2  
MANEVQDLLSPRKGHPPAVKAGGMRIKKQEIGTLERHTKKTGFEKTSAIANVAKIQTL  
DALNDALEKLNKFPATVHMAHQKPTPALEKVVPLKRIYIIQQRKC

>sp|Q86SG3|DAZ4\_HUMAN Deleted in azoospermia protein 4 OS=Homo sapiens GN=DAZ4 PE=1 SV=2  
MSAANPETPNSTISREASTQSSSAAASQGWVLPQKIVPNTVVFVGIDARMDTEIGSCF  
GRYGSVKEVKIITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGPARKQKLC  
ARHVQPRPLVVNPPPPQFQNVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISR  
EASTQSSSAAASQGWVLPQKIVPNTVVFVGIDARMDTEIGSCFGRYGSVKEVKIITNR  
TGVSKGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGPARKQKLCARHVQPRPLVVNPP  
PPQFQNVWRNPNTETYLQPQITPNPVTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTY  
PDSAFQVTTGYQLPVYNYQFPAYPRSPFQVTAGYQLPVYNYQAFPAYPNSPFQVATGYQ  
FPVYNYQFPAYPSSPFQVTAGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQAFPAY  
PNSPVQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPNSAVQVTTGYQ  
FHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVCLIQRRD

>sp|Q92904|DAZL\_HUMAN Deleted in azoospermia-like OS=Homo sapiens GN=DAZL PE=1 SV=1

MSTANPETPNSTISREASTQSSSAATSQGYILPEGKIMPNTVFGGIDVRMDETEIRSF  
ARYGSVKEVKIITDRTGVSKGYGFVSFFNDVDVQKIVESQINFHGKKLKLGAIRKQNL  
AYHVQPRPLVFNHPPPPQFQNVWNTNPNTETYMQPTTTMNPITQYVQAYPTYPNSPVQVIT  
GYQLPVYNYQMPPQWPVGEQRSYVPPAYSAVNYHCNEVDPGAEEVVPNECSVHEATPPSG  
NGPQKKSVDRSIQTVVSCLFNPENRLRNSVVTQDDYFKDKRVHHFRRSRAMLKSV

>sp|Q30KQ8|DB112\_HUMAN Beta-defensin 112 OS=Homo sapiens GN=DEFB112 PE=3 SV=1  
MKLLTTICRLKLEKMYSKTNTSSSTIFEKARHGTEKISTARSEGHITFSRWKSCTAIGGR  
CKNQCDSEFRISYCARPTTHCCVTECDPTDPNNWIPKDSVGTQEWYPKDSRH

>sp|Q30KQ2|DB130\_HUMAN Beta-defensin 130 OS=Homo sapiens GN=DEFB130 PE=3 SV=1  
MKLHSLISVLLLFTLIPKGTGVIPGQKQCIALKGVCRDKLCSTLDDTIGICNEGKKCC  
RRWWILEPYPTPVPGKSP

>sp|Q7Z7B7|DB132\_HUMAN Beta-defensin 132 OS=Homo sapiens GN=DEFB132 PE=3 SV=1  
MKFLLLVLAAFGFLTQVIPASAGGSKCVSNTPGYCRTCCHWGETALFMCNASRKCCISYS  
FLPKDLPQLIGNHWQSRRRNTQRKDKKQTTVTS

>sp|Q4QY38|DB134\_HUMAN Beta-defensin 134 OS=Homo sapiens GN=DEFB134 PE=3 SV=1  
MKPLLVVVFVFLWDPVLAGINSLSSEMHHKKCYKNGICRLECYESEMLVAYCMFQLECCV  
KGNPAP

>sp|Q9UBU7|DBF4A\_HUMAN Protein DBF4 homolog A OS=Homo sapiens GN=DBF4 PE=1 SV=1  
MNSGAMRIHSGHFQGGIQVKNEKNRPSLSKSLKTDNRPEKSKCKPLWGKVFYLDLPSVTI  
SEKLQDKIDKLGGRVEEFLSKDISYLSNKEAKFAQTLGRISPVPSPESAYTAETTS  
PSHDGSSFKSPDVTCLSRGKLLVEKAIKDHDFIPSNSILSNLSWGVKILHIDDIRYYIE  
QKKKELYLLKKSSTSVDGGRVGSQAQKTRTGRLKKPFVKVEDMSQLYRPFYQLTNMP  
FINYSIQKPCSPFDVDKPSMQKQTQVKLRIQTDGDKYGGTSIQLQLKEKKKKGYCECCL  
QKYEDLETHLLSEQHRNFAQSNQYQVDDIVSKLVDFVEYEKDTPKKKRIKYSVGSLS  
VSASVLKKEQKEKVELQHISQKDCQEDDTVKEQNFLYKETQETEKLLFISEPIPHPS  
NELRGLNEKMSNKCMLSTAEDDIRQNTQLPLHKNKQECILDISEHTLSENDLEELRVD  
HYKCNIQASVHVSDFSTDNSGSQPKQKSDTVLFPKDLKEKDLHSIFTHDGLITINSSQ  
EHLTVQAKAPFHTPPEEPNECDFKNMDSLPSGKIHRKVKIILGRNRKENLEPNAEFDKRT  
EFITQEENRICSSPVQSLDLFQTSEEKSEFLGFTSYTEKSGICNVLDIWEENSNDLLT  
AFFSSPSTSTFTGF

>sp|Q99829|CPNE1\_HUMAN Copine-1 OS=Homo sapiens GN=CPNE1 PE=1 SV=1  
MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGSWAELGRTERVRNCSSPEFSK  
TLQLEYRFETVQKLRFGIYDIDNKTPELRDDDFLGAECSLGQIVSSQVLTPLMLKPGK  
PAGRGTTITVSAQELKDNRVVTMEVEARNLDKKDFLGKSDPFLEFFRQGDGKWHLVYRSEV  
IKNNLNPTWKRFSVPVQHFCGGNPSTPIQVQCSDYSDGSHDLIGTFHTSLAQLQAVPAE  
FECIHPEKQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINFVGVDFGTGSNGDPS  
SPDSLHYLSPTGVNEYLMALWSVGSVVDYSDKLFPAFGGAQVPPDWQVSHEFALNFN  
PSNPYCAGIQGIVDAYRQALPQVRLYGPTNFAPIINHVARFAAQAHAHQGTASQYFMLLLL  
TDGAVTDVEATREAVVRASNLPMSEIIVGVGGADFEAMEQLDADGGPLHTRSGQAAARDI  
VQFVPYRRFQNAPREALAQTVLAEVPTQLVSYFRAQGWAPLKPLPPSAKDPAQAPQA

>sp|Q9BZJ0|CRNL1\_HUMAN Crooked neck-like protein 1 OS=Homo sapiens GN=CRNL1 PE=1 SV=4  
MTATVENLTFQKDTLGNVDKNTSRLELSYSLAGRHGSTPELVLAWSQFRRLTWGCAL  
DALHRSPCVAASQHGVTHLIRSSRTPHSTRCKEDAQPGHHGNGAASVTAQARGQRSVLQ  
VPLPVPRSCLFSESFVSVSSQSRFLASVPGTGVQRSTAADMAASTAAGKQRIPKVAKVK

NKAPAEVQITAEQLLEAKERELELLPPPPQQKITDEEELNDYKLRKRKTFEDNIRKNRT  
VISNWIKYAQWEESLKEIQRARSIYERALVDYRNITLWLKYAEMEMKNRQVNHARNIWD  
RAITTLPRVNQFWYKYTYMEMLGNVAGARQVFERWMEWQPEEQAWHSYINFELRYKEVD  
RARTIYERFVLVHPDVKNWIKYARFEEKHAYFAHARKVYERAVEFFGDEHMDHEHLYVAF  
KFEENQKEFERVRVIYKYALDRISKQDAQELFKNYTIFEKKFGDRRGIEDIIVSKRRFQY  
EEEVKANPHNYDAWFDYLRLVESDAEAEAVREVYERAIANVPPIQEKRHWKRYIYLWINY  
ALYEELEAKDPERTRQVYQASLELIPHKKFTFAKMWILYAQFEIRQKNLSLARRALGTSI  
GKCPKNKLFKVYIELELQLREFDRCRKLIEKFLEFGPENCTSWIKFAELETILGDIDRAR  
AIYELAISQPRLDMPVLWKSIDFEIEQEETERTRNLVYRRLQRTQHVQVWISFAQFEL  
SSGKEGSLTKCRQIYEEANKTMRNCEEKEERLMLLESWSRFEFEEFGTASDKERVDKLMPE  
KVKKRRKVQTDGSDAGWEEYFDYIFPEDAANQPNLKLLAMAKLWKKQQQEKEDAEHHPD  
EDVDESES

>sp|A5YM72|CRNS1\_HUMAN Carnosine synthase 1 OS=Homo sapiens GN=CARNS1 PE=1 SV=3

MLLCLSPAWMKVPAPGQPGGEAALLVSKAVSFHPGGLTFLDDFVPPRRATYFLAGLGLGP  
GRGREAAELARDLTCPTGASAEALARLLEDRLLTRQLLAQQGGVAVPATLAFTYKPPGLLR  
GGDASLGLRLVELSGKEGQETLVKEEVEAFLRSEALGDILQVAVKLSGWRWRGRQAWRLH  
PRAELGAVVDTVALLLEKLEEEESVLVEAVYPPAQLPCSDGSPGPGGLAVRICAVVCRTQ  
GDRPLLKVVCGVGRGDRPLRHHNSLPRTLEVALAQCGLGEEAQAQVAVRQVKAEEAAL  
AAVLAEAGLSAEQRGGRAHTDFLGVDFALTAAGGVLPVLELNGGLCLEACGALEGL  
WAAPRLGPAADEAVAAPLVETMLRRSARCLMEGKQLLVGAGGVSKKFVWEAARDYGLQL  
HLVESDPNHFASQLVQTFIHFDMTEHRRDEENARLLAELVRARGLKLDGCFSYWDDCLVL  
TALLCQELGLPCSSPAMRLAKQKSLTQLHLLHHHGPPWPAPSLHAVPCCPLESEADVER  
AVHQVPLPGVMKLEFGAGAVGVRLVEDAPQCHEHFSRITRDLQGEADHPGIGLGWGNAML  
LMEFVEGTEHDVDLVLFGGRLAFAVSDNGPTRLPGFTETAACMPTGLAPEQEAQMVQAA  
FRCCLGCGLLDGVFNLKLTGAGPRLIEINPRMGGFYLRDWILELYGVDLLAAVMVAC  
GLRPALPTRPRARGHLVGVMCVLSQHLQALSSTASRETLQALHNRGLLRLLNLEEALVPG  
EYEEPYCSVACAGPSPTEARLRLGLCQGLGIDGPSYPVAHFLSHFK

>sp|Q13536|CROC4\_HUMAN Protein CROC-4 OS=Homo sapiens GN=C1orf61 PE=2 SV=1

MFLTDLITFNLNRLFLQLWESSFSPGAGGFCTTLPPSFLRVDDRATSSTTDSSRAPSS  
PRPPGSTSHCGISTRCTERCLCVLPLRTSQVPDVMAPQHDQEKFHDLAYSCLGKSFSMSN  
QDLYGYSTSSLALGLAWSWETKKKNVLHLVGLDSL

>sp|094886|CSCL1\_HUMAN CSC1-like protein 1 OS=Homo sapiens GN=TMEM63A PE=1 SV=3

MMDSPFLELWQSKAVSIREQLGLGDRPNDSYCYNSAKNSTVLQGVTFGGIPTVLLIDVSC  
FLFLILVFSIIRRRFDYGRIALVSEADSESRFQRLSSTSSSGQQDFENELGCCPWLTAI  
FRLHDDQILEWCGEDAIHYSFQRHIFLLVVVSFSLCVILPVNLSGDLLDKDPYSFGR  
TTIANLQTDNDLLWLHTIFAVIYFLTVGFMRHHTQSIKYKEENLVRRTLFITGLPRDAR  
KETVESHFRDAYPTCEVVDVQLCYNVAKLIYLCKEKKKTEKSLTYTTLNQLVKTGQRTLIN  
PKPCGQFCCCEVLGCEWEDAISSYTRMKDRLLERITEERHVDQPLGMAFVTFQEKSM  
TYILKDFNACKCQSLQCKGEPQSSHSRELYTSKWTVTFAADPEDICWKNLSIQGLRWWL  
QWLGINFTLFLGLFLLTPPSIILSTMDKFNVTKPIHALNPIISQFFPTLLLWSFSALLP  
SIVYYSTLLESHWTKSGENQIMMTKVYIFLIFMVLILPSLGLTSLDFFFRWLFDKTSSEA  
SIRLECVPFLPDQGAFFVNYVIASAFIGNGMELLRLPGLIYTFRMIMAKTAADRRNVKQN  
QAFQYEFGAMYAWMLCVFTVIVAYSITCPIIAPFGLIYILLKHMVDRHNLVYFVYLPKLE  
KGIHFAAVNQALAAPILCLFWLYFFSFLRLGMKAPATLFTFLVLLLTILVCLAHTCFGCF

KHLSPLNYKTEEPASDKGSEAEAHMPFPFTPYVPRILNGLASERTALSPQQQQQQTYGAI  
HNISGTIPGQCLAQSATGSVAAAPQEA

>sp|Q6UVK1|CSPG4\_HUMAN Chondroitin sulfate proteoglycan 4 OS=Homo sapiens GN=CSPG4 PE=1  
SV=2

MQSGPRPPLPAPGLALALTLTMLARLASAASFFGENHLEVPVATALTDIDLQLQFSTSQP  
EALLLLAAGPADHLLLQLYSGRLQVRLVLGQEELRLQTPAETLLSDSIPHTVVLTVEGW  
ATLSVDGFLNASSAVPGAPLEVYPYGLFVGGTGTGLPYLRGTSRPLRGCLHAATLNGRSL  
LRPLTPDVHEGCAEEFSASDDVALGFSGPHSLAAFPAGWTQDEGTLEFTLTTQSRQAPLA  
FQAGGRRGDFIYVDIFEGHLRAVVEKGQGTVLLHNSVPVADGQPHEVSVHINahrleISV  
DQYPHTSNRGVLSYLEPRGSLLLGGDLAEASRHLQEHLGLTPEATNASLLGCMEDLSV  
NGQRRGLREALLTRNMAAGCRLEEEYEDDAYGHYAFSTLAPEAWPAMELPEPCVPEPG  
LPPVFANFTQLLTISPLVVAEGGTAWLEWRHVQPTLDLMEAE LRKSQVLF SVTRGARHGE  
LELDIPGAQARKMFTLLDVVNRKARFIHDGSEDTSQDLVLEVSVTARVPMPSCLRGQTY  
LLPIQVNPVNDPPIIFPHGSLMVI EHTQKPLGPEVFQAYDPDSACEGLTFQVLGTSSG  
LPVERRDQPGEPATEFSCRELEAGSLVYVHRGGPAQDLTFRVSDGLQASPPATLKVVAIR  
PAIQIHRSTGLRLAQGSAMPILPANLSVETNAVGGQDVSVLFRVTGALQFGELQKQGAGGV  
EGAEWATQAFHQRDVEQGRVRYLSTDPQH HAYDTVENLAEVQVGQEILSNLSFPVTIQ  
RATVWMLRLEPLHTQNTQQETLTAHLEATLEEAGSPPTFH YE EVVQAPRKGNLQLQGTR  
LSDGQGFTQDDIQAGRVTYGATARASEAVEDTFRFRVTAPPYFSPLYTFPIHIGGDPDAP  
VLTNVLLVVPEGGEGLVSADHLFVKSLNSASLYEVMERPRHRLAWRGTQDKTTMTVSF  
TNEDLLRGRLVYQHDDSETTEDDIPFVATRQGESSGDMAWEEVRGVFRVAIQPVNDHAPV  
QTISRIFHVARGRRLLTTDDVAFSDADSGFADAQLVLTRKDLLFGSIVAVDEPTRPIYR  
FTQEDLRKRRVLFVHSGADRGWIQLQVSDGQH QATALLEVQASEPYLRVANGSSLVVPQG  
GGGTIDTAVLHLDTNLDIRSGDEVHYHVTAGPRWGQLVRAGQPATAFSQQDLLDGAVLYS  
HNGSLSPRDTMAFSVEAGPVHTDATLQVTIALEGPLAPLKLVRHKKIYVFQGEAAEIRRD  
QLEAAQEAVPPADIVFSVKSPPSAGYLVMSRGALADEPPSLDPVQSFSQEAVDTGRVLY  
LHSRPEAWSDAFSLDVASGLGAPLEGVLVELEVLPAAIPLAQNF SVPEGGSLTLAPPLL  
RVSGPYFPTLLGLSLQVLEPPQH GALQKEDGPQARTLSAFSWRMVEEQLIRYVHDGSETL  
TDSFVLMANASEMDRQSHPVAFTVTVLPVNDQPPILTTNTGLQMWEGATAPIPAEALRST  
DGDGSEDLVYTI EQPSNGRVVLRGAPGTEVRSFTQAQLDGGVLVLF SHRGTLDGGFRFRL  
SDGEHTSPGHFFRVTAQKQVLLSLKGSQTLTVCPGSVQPLSSQTLRASSSAGTDPQLLLY  
RVVRGSQLGRLFHAQQDSTGEALVNFTQAEVYAGNILYEHMPPEPFWEAHD TLELQLSS  
PPARDVAATLAVAVSFEAACQRP SHLWKNKGLWVPEGQRARITVAALDASNLLASVPSP  
QRSEHDVLFQVTQFP SRGQLLVSEEPHAGQPHFLQSQLAAGQLVYAHGGGGTQQDGFHF  
RAHLQGPAGASVAGPQTSEAFAITVRDVNERPPQPQASVPLRLTRGSRAPISRAQLSVVD  
PDSAPGEIEYEVQRAPHNGFLSLVGGGLGPVTRFTQADVDSGRLAFVANGSSVAGIFQLS  
MSDGASPLPMSLAVDILPSAIEVQLRAPLEVPPALGRSSLSQQQLRVVSDREEPEAAAYR  
LIQGPQYGHLLVGGRP TSAFSQFQIDQGEVVFAFTNFSSSHDHFRVLALARGVNASAVVN  
VTVRALLHVWAGGPWPQGATRLDPTVLDAGELANRTGSVPRFRLLEGPRHGRVVRVPRA  
RTEPGGSQ LVEQFTQQDLEDGRLGLEVRPEGRAPGPAGDSL TLELWAQGVPPAVASLDF  
ATEPYNAARPYSVALLSVPEAA RTEAGKPESSTPTGEPGPMASSPEPAVAKGGFLSFLEA  
NMFSVIIPMCLVLLLLALILPLLFYLRKRNTGKH DVQVLTAKPRNGLAGDTETFRKVEP  
GQAIPLTAVPGQGP PPGGQPDPELLQFCRTPNPALKNGQYVW

>sp|PODMU9|CT45A\_HUMAN Cancer/testis antigen family 45 member A10 OS=Homo sapiens  
GN=CT45A10 PE=2 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSLIIAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTGFSKDGMMQKPGSNAPVGGNVTSNFSGDDLECRGIASSPKSQQ  
EINADIKCQVVKEIRCLGRKYEKIFEMLEGVQGPTAVRKRFFESIIEEAARCMRRDFVKH  
LKKKLKRFMI

>sp|POC5K7|CT62\_HUMAN Cancer/testis antigen 62 OS=Homo sapiens GN=CT62 PE=2 SV=1  
MMHTTSYRRLSPPHLTDQPSAYSHTRTFSHFSCGSQPAAQRLHVELWNADLQSEFLCPC  
LGLTLYLTCNPQLGKRKFCSHSSEDMSKMVSRRNVKDSHEVSGSLQATLQVISFSFPFLL  
HTCSHPLSHPTSGQRR

>sp|075638|CTAG2\_HUMAN Cancer/testis antigen 2 OS=Homo sapiens GN=CTAG2 PE=1 SV=2  
MQAEGQGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGATGGRGPRGAGAARASGPRGGA  
PRGPHGGAASAQDGRCPGARRPDSRLQLHITMPFSSPMEAEVRRILSRDAAPLPRPG  
AVLKDFTVSGNLLFMSVRDQDREGAGRMRVVGWGLGSASPEGQKARDL RTPKHVSEQR  
GTPGPPPEGAQGDGCRGVAFNMFSAPI

>sp|Q13363|CTBP1\_HUMAN C-terminal-binding protein 1 OS=Homo sapiens GN=CTBP1 PE=1 SV=2  
MGSSHLNKLPLGVRPPIMNGPLHPRPLVALLDGRDCTVEMPILKDVATVAFCDASTQ  
EIEKVLNEAVGALMYHTITLTREDLEKFKALRIIVRIGSGFDNIDIKSAGDLGIAVCNV  
PAASVEETADSTLCHILNLYRRATWLHQALREGTRVQSVEQIREVASGAARIRGETLGI  
GLGRVGQAVALLRAKAFGNVLFYDPYLSGVERALGLQRVSTLQDLLFHSDCVTLHCLN  
EHNHLLINDFTVKMRQGAFLVNTARGGLVDEKALAQAQALKEGRIRGAALDVHESEPFSS  
QGPKDAPNLICTPHAAWYSEQASIEEMREEAAREIRRAITGRIPDSLKNCVNDHLTAAT  
HWASMDPAVVHPELNGAAYRPPGVGVAPTGI PAAVEGIVPSAMSLSHGLPPVAHPPHA  
PSPGQTVKPEADRDHASDQL

>sp|P56545|CTBP2\_HUMAN C-terminal-binding protein 2 OS=Homo sapiens GN=CTBP2 PE=1 SV=1  
MALVDKHKVKRQLDRICEGIRPQIMNGPLHPRPLVALLDGRDCTVEMPILKDLATVAF  
CDAQSTQEIEKVLNEAVGAMMYHTITLTREDLEKFKALRVIVRIGSGYDNVDIKAAGEL  
GIAVCNIPSAAVEETADSTICHILNLYRRNTWLYQALREGTRVQSVEQIREVASGAARIR  
GETLGLIGFGRTGQAVAVRAKAFGFSVIFYDPYLDGIERSLGVQRVYTLQDLLYQSDCVS  
LHCNLNEHNHLLINDFTIKMRQGAFLVNAARGGLVDEKALAQAQALKEGRIRGAALDVH  
SEPFSAQGPLKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIPESLRNCVNKE  
FFVTSAPWSVIDQQAHPPELNGATYRPPGIVGVAPGGLPAAMEGIIIPGGIPVTHNLPTV  
AHPSQAPSPNQPTKHGDNREHPNEQ

>sp|POCG12|CTF8A\_HUMAN Chromosome transmission fidelity protein 8 homolog isoform 2  
OS=Homo sapiens GN=CTF8 PE=1 SV=1

MKEPRIFPRERPTPWTRAPLPPRGRLDGSLGPQGGPVLNTGHPLGVNSDPFLMAAGSLGG  
NLTPFPRNPSPFPASSGSLASNPAPFPAGARDPSMASFPRGMNPTGTGAVSFPRPGGLG  
PGPGPGPTLNPRTGALPGPGPLSNPRLGGLPGPGMSPNPRAGGLGAGPDPRGGGPMGPG  
SGPNLRAGVLLTSGNGPPNPRPVGLGPGPNPNLRSGFLGTNPAPRSGVFPGPLGPNPRP  
SGLGPGPNLDARAGLLGTGSGNLNRMAGPQGLDLAPILRAAGLLGANSASFQASGNMG  
TSPSSMARVPGMGPNSGPSSRGIGLPGNPSPMSRAPGPIGPNSAHFSRPVGMGVNAN  
PFPRGAGSSAFSQSSGTLASNPATFQRSAGLQGSNPTIFPRASGPLGPNPANFPRATGLQ  
GPSPTTFPRSTGPLPGQVTFPRPAAGHLGSPAGVGINPAPFTRPTGLGLNPASFPR  
MNGPAGKSFVPFPRVGSPLGTNPAAPRPGGPMAAMYPNGMLPP

>sp|POCG13|CTF8\_HUMAN Chromosome transmission fidelity protein 8 homolog OS=Homo sapiens  
GN=CTF8 PE=1 SV=1

MVQIVISSARAGGLAEWVLMELQGEIEARYSTGLAGNLLGDLHYTTEGIPVLIVGHHILY  
GKIIHLEKPFVAVLVKHTPGDQDCDELGRETGTRYLVLTALIKDKILFKTRPKPIITSVPPK  
V

>sp|Q8WWI5|CTL1\_HUMAN Choline transporter-like protein 1 OS=Homo sapiens GN=SLC44A1 PE=1  
SV=1

MGCCSSASSAAQSSKREWKPLEDRSCTDIPWLLLFILFCIGMGFICGFSIATGAAARLVS  
GYDSYGNICGQKNTKLEAIPNSGMDHTQRKYVFFLDPCNLDLINRKIKSVALCVAACPRQ  
ELKTLSDVQKFAEINGSALCSYNLKPSEYTTSPKSSVLCPKLPVPASAPIPFFHRCAPVN  
ISCYAKFAEALITFVSDNSVLHRLISGVMTSKEIILGLCLSLVLSMILMVIIRYISRVL  
VWILTILVILGSLGGTGVLWWLYAKQRRSPKETVTPEQLQIAEDNLRALLIYASATVFT  
VILFLIMLVMRKRVALTIALFHVAGKVF IHLPLLVFQPFWTFFALVLFVWYWMITLLFLG  
TTGSPVQNEQGVEFKISGPLQYMWYHVGLIWISEFILACQMQMTVAGAVVTTYFTRDK  
RNLPTPIILASVNRLIRYHLGTVAKGSFIITLVKIPRMILMYIHSQKKGKENCACARCVLK  
SCICCLWCLEKCLNYLNQAYTATAINSTNFCTSAKDAFVILVENALRVATINTVGDVFL  
FLGKVLIVCSTGLAGIMLLNYQQDYTVWVPLIIVCLFAFLVAHCFLSIYEMVVDVFLC  
FAIDTKYNDGSPGREFYMDKVLMEFVENSRRKAMKEAGGGVADSRELKPMASGASSA

>sp|Q8IWA5|CTL2\_HUMAN Choline transporter-like protein 2 OS=Homo sapiens GN=SLC44A2 PE=1  
SV=3

MGDERPHYYGKHGTPQKYDPTFKGPIYNRGCTDIICCVFLLLAIVGYVAVGIIAWTHGDP  
RKVIYPTDSRGEFCGQKGTKNENKPYLFYFNIVKASPLVLEFQCPTPQICVEKCPDRY  
LTYLNARSSRDFFEYKQFCVPGFKNNKGVAEVLQDGDCAVLIPSKPLARRCFPAIHAYK  
GVLVGNETTYEDGHGSRKNITDLVEGAKKANGVLEARQLAMRIFEDYTVSWYWIIGLV  
IAMAMSLLFIIILLRFLAGIMVWVMIIMVILVLGYGIFHCYMEYSRLRGEAGSDVSLVDLG  
FQTDFRVYLHLRQTWLFAMIILSILEVIIILLIFLRKRILIAIALIKEASRAVGYVMCS  
LLYPLVTFFLLCLCIAYWASTAVFLSTSNEAVYKIFDDSPCPFTAKTCNPETFPSSNESR  
QCPNARCQFAFYGGESGYHRALLGLQIFNAFMFFWLANFVLALGQVTLGAFASYWALR  
KPDDLPAFPLFSAFGRALRYHTGSLAFGALILAIVQIIRVILEYLDQRLKAAENKFAKCL  
MTCLKCCFWCLEKFIKFLNRNAYIMIAIYGTNFCTSARNAFFLLMRNIIRVAVLDKVTDF  
LFLGLKLLIVGSVILAFFFFTHIRIRIVQDTAPPLNYYWVPIITVIVGSYLIAHGFFSVY  
GMCVDTLFLCFLEDLERNDGSAERPYPFMSSTLKKLLNKTNKKAAES

>sp|Q8N4M1|CTL3\_HUMAN Choline transporter-like protein 3 OS=Homo sapiens GN=SLC44A3 PE=1  
SV=4

MHCLGAEYLVSAEGAPRQREWRPQIYRKCTDTAWLFLFFLFWTGLVFIMGYSVVAGAAGR  
LLFGYDSFGNMCGKKNPVEGAPLSGQDMTLKKHVFFMNSCNLEVKGTQLNRMALCVSNC  
PEEQDLSLEEVQFFANTSGSFLCVYSLNSFNTHSPKADSLCPRLPVPPSKSFPLFNRCV  
PQTPECYSLFASVLINDVDTLHRILSGIMSGRDTILGLCILALALSLAMMFTFRFITLL  
VHIFISLVILGLLVCGVLWWLYDYTDNLSIELDTERENMKCVLGFAIVSTGITAVLLV  
LIFVLRKRIKLTVELFQITNKAISSAPFLFQPLWTFAILIFFWVLWVAVLLSLGTAGAA  
QVMEGGQVEYKPLSGIRYMWSYHLIGLIWTSEFILACQMQMTIAGAVVTCYFNRSKNPPD  
HPILSSLSILFFYHQGTVVKGSLISVVRIPRIIVMYMQNALKEQQHGALSRYLFRCCYC  
CFWCLDKYLLHLNQAYTTTAINGTDFCTSAKDAFKILSKNSSHFTSINCFGDFIIFLGK  
VLVVCFTVFGGLMAFNYNRAFQVWAVPLLLVAFFAYLVAHSFLSVFETVLDALFLCFAVD



LETNDGSSEKPYFMDQEFLSFVKRSNKLNNARAQQDKHSLRNEEGTELQAIVR

>sp|P35222|CTNB1\_HUMAN Catenin beta-1 OS=Homo sapiens GN=CTNNB1 PE=1 SV=1

MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTS  
QVLYEWEQGGSQSFTQEQQVADIDGQYAMTRAQVRRAAMPETLDEGMQIPSTQFDAAHPT  
NVQRLAEPQMLKHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKAAMVHQLSK  
KEASRHAIMRSPQMVSIAIVRTMQNTNDVETARCTAGTLHNLSSHREGLLAIFKSGGIPAL  
VKMLGSPVDSVLFYAITTLHNLHLLHLEGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDC  
LQILAYGNQESKLIILASGGPQALVNIMRTYTYEKLLWTSRVLKVLVSVCSNKP AIVEA  
GGMQALGLHLTDPQRLVQNCWLTLRNLSDAATKQEGMEGLLGTLVQLLGSDDINVVTCA  
AGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDREDITEPAICALRHLSRHQEAEM  
AQNAVRLHYGLPVVVKLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGAIPRLVQLL  
VRAHQDTQRRTSMGGTQQQFVEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFV  
QLLYSPIENIQRVAAGVLCELAQDKEAAEAIEAEGATAPLTELHLSRNEGVATYAAAVLF  
RMSEDKPQDYKKRLSVELTSSLFRTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFH  
SGGYGQDALGMDPMMEHEMGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTD  
L

>sp|Q8WY07|CTR3\_HUMAN Cationic amino acid transporter 3 OS=Homo sapiens GN=SLC7A3 PE=1  
SV=1

MPWQAFRRFGQKLVRRTLESMAETRLARCLSTLDLVALGVGSTLGAGVYVLAGEVAKD  
KAGPSIVICFLVAALSSVLAGLCYAEFGARVPRSGSAYLYSYVTVGELWAFTTGWNILS  
YVIGTASVARAWSSAFDNLIGNHISKTLQGSIALHVPHVLAEYPDFALGLVLLLTGLLA  
LGASESALVTKVFTGVNLLVLGFVMSGFVKGDVHNWKLTEEDYELAMAEELNDTYSGLPL  
GSGGFVPFGFEGILGAATCFYAFVGFDCIATTGEEAQNPQRSIPMGIVISLSVCFLAYF  
AVSSALTLMMPYYQLQPESPLPEAFLYIGWAPARYVVAVGSLCALSTSLGSMFPMPRVI  
YAMAEDGLLFRVLARIHTGTRTPIIATVVSGIIA AFMAFLFKLTDLVDLMSIGTLLAYSL  
VSICVLILRYQPDQETKTGEEVELQEEAITTESEKLTWGLFFPLNSIPTPLSGQIVYVC  
SSLLAVLLTALCLVLAQWSVPLLSGDLWTAVVLLLLLIIGIIVVIWRQPSSTPLHFK  
VPALPLLPLMSIFVNIYLMQM TAGTWARFGVWMLIGFAIYFGYGIQHSLEEIKSNQPSR  
KSRAKTVDLDPGTLYVHSV

>sp|P59037|CUO84\_HUMAN Putative uncharacterized protein encoded by LINC00313 OS=Homo  
sapiens GN=LINC00313 PE=5 SV=1

MTTLSKSKQPSAAGNLDEQTPGECFCRSCFVTSSEVWKRWKHLDPACAADPWEAPTPIE  
KPDGKECLGRTSCPRLA

>sp|Q9NWM3|CUED1\_HUMAN CUE domain-containing protein 1 OS=Homo sapiens GN=CUEDC1 PE=1  
SV=1

MTSLFRRSSSGSGGGGTAGARGGGGTAAPQELNNSRPARQVRLEFNQAMDDFKTMFPN  
MDYDIIIECVLRANS GAVDATIDQLLQMNLEGGGSSGGVYEDSSDSSEDSIPPEILERTLEP  
DSSDEEPPPVYSPPAYMHVFD RPYP LAPPTPPPRIDALGSGAPTSQRRYRNWNPPLLGN  
LPDDFLRILPQQLD SIQGNAGGPKPGSGEGCPPAMAGPGPDQESRWKQYLEDERIALFL  
QNEEFMKELQRNRD FLALERDRLKYESQKSKSSSVAVGNDFGFSSPVP GTGDANPAVSE  
DALFRDKLKHMGKSTRRKLFELARAFSEKTKMRKSKRKHLLKHQSLGAAASTANLLDDVE  
GHACDEDFRGRRQEAPKVEEGLREGQ

>sp|Q13620|CUL4B\_HUMAN Cullin-4B OS=Homo sapiens GN=CUL4B PE=1 SV=4

MMSQSSSGSGDGNDEATT SKDGGFSSPSAAAAAQEVRSATDGNTSTPTPTS AKKRKLN

SSSSSSNSSNEREDFDSTSSSSSTPPLQPRDSASPSTSSFCLGVSVAASSHVPIQKKLR  
FEDTLEFVGFDKMAEESSSSSSSSPTAATSQQQQLKNKSILISSVASVHHANGLAKSS  
TTVSSFANSKPGSAKKLVIKNFKDKPKLPENYTDETWQKLKEAVEAIQNSTSIKYNLEEL  
YQAVENLCSYKISANLYKQLRQICEDHIKAQIHQFREDSLDSVLFLKKIDRCWQNHCRQM  
IMIRSIFLFLDRTYVLQNSMLPSIWDMLGLFRAHIISDQKVQNKTIIDGILLLIERERNG  
EAIDRSLLRSLLSMLSDLQIYQDSFEQRFLLEETNRLYAAEGQKLMQEREVPEYLHHVNKR  
LEEEADRLITYLDQTTQKSLIATVEKQLLGEHLTAILQKGLNNLLDENRIQDLSLLYQLF  
SRVRGGVQVLLQQWIEYIKAFGSTIVINPEKDKTMVQELLDKDKVDHIIDICFLKNEKF  
INAMKEAFETFINKRPNKPAELIAKYVDSKLRAGNKEATDEELEKMLDKIMIIFRFIYGK  
DVFEAFYKDLAKRLLVGKSASVDAEKSMLSKLKHECGAFTSKLEGMFKDMELSKDIMI  
QFKQYMQNQNVPGNIELTVNILTMGYWPTYVPMVHLPPEMVKLQEIFKTFYLGKHSGRK  
LQWQSTLGHCVLKAEFKEGKKELQVSLFQTLVLLMFNEGEEFSLEEIKQATGIEDGELRR  
TLQSLACGKARVLAKNPKGKDIEDGDKFICNDDFKHKLFRIKINQIQMKETVEEQASTE  
RVFQDRQYQIDAAIVRIMKMRKTLSHNLLVSEVYNQLKFPVKPADLKKRIESLIDRDYME  
RDKENPNQYNYIA

>sp|Q93034|CUL5\_HUMAN Cullin-5 OS=Homo sapiens GN=CUL5 PE=1 SV=4

MATSNLLKNKGSLQFEDKWFMRPIVLKLLRQESVTKQWFDLFSVDHAVCLWDDKGP  
IHQALKEDILEFIKQAQARVLSHQDDTALLKAYIVEWRKFFTQCDILPKPFCQLEITLMG  
KQGSNKKSNVEDSIVRKMLDTWNEIFSNIKNRLQDSAMKLVAERLGEAFDSQLVIGV  
RESYVNLCSNPEDKLQIYRDNFEKAYLDSTERFYRTQAPSYLQQNGVQNYMKYADAKLKE  
EEKRALRYLETRECNSVEALMECCVNALVTSFKETILAECQGMIKRNETEKLHLMFSLM  
DKVPNGIEPMLKDLEEHIIISAGLADMVAAAETITTDSEKYVEQLLTLFNRFSKLVKEAFQ  
DDPRFLTARDKAYKAVVNDATIFKLELPLKQKGVGLKTQPESKCEPELLANYCDMLLRKTP  
LSKKLTSEEIEAKLKEVLLVLKYVQNKDVFMRYPHKAHLTRRLILDISADSEIEENMVEWL  
REVGMADYVNVKLARMFQDIKVSIEDLNQAFKEMHKNNKLALPADSVNIKILNAGAWSRSS  
EKVFVSLPTELEDLPEVEEFYKKNHSGRKLHWHHLSNGIITFKNEVGQYDLEVTTFQL  
AVLFAWNQRPREKISFENLKLATELPDAELRRTLWSLVAFPKLKRQVLLYEPQVNSPKDF  
TEGTLFSVNQEFSLIKNAKVQKRGKINLIGRLQLTTERMREEENEGIVQLRILRTQEATII  
QIMKMRKKISNAQLQTELVEILKNMFLPQKKMIKEQIEWLIEHKYIRRDESDINTFIYMA

>sp|Q8N1L1|CV037\_HUMAN Putative uncharacterized protein encoded by LIN00528 OS=Homo sapiens GN=LIN00528 PE=5 SV=1

MALLSDWCPDGDADTHTGTDPGRTHRLCARERGVRGTQPCPRIYLRPAQNCEETRFC  
CASPGSVVLGHGAPRTASPPSALSHPSPLEGLSFSPFPSPVLSHSPPEGLSFSLSFHCLC  
SGKLSSEPGCFWNSLGWSFSVLTEPGVWKGVAIWAENLAQPLTSPCAC

>sp|Q6IC83|CV042\_HUMAN Uncharacterized protein C22orf42 OS=Homo sapiens GN=C22orf42 PE=2 SV=1

MGSKLTCCLGPSGGLNCDCCRPDVGPCHECEIPETVAATAPASTTAKPAKLDLAKKAQL  
MQYLSLPKTPKMLKMSKGLDARSKRWLKIIWRRHGIWPLENIGPTEDVQASAHGGVEENM  
TSDIEIPEAKHHRPTEDVQVSAHGGVEENITSDIEISEAKHDHHLVEDLSESLSVCLD  
FMTSDLSESLSVSLEDLMTPEMAKERYEDYLCWVKMARSRLNEP  
ISSQVLGLLRL

>sp|P13498|CY24A\_HUMAN Cytochrome b-245 light chain OS=Homo sapiens GN=CYBA PE=1 SV=3

MGQIEWAMWANEQALASGLILITGGIVATAGRFTQWYFGAYSIVAGVFVCLLEYPRGKRK  
KGSTMERWGQKYMTAVVKLFGPFTRNYYVRAVLHLLSVAPAGFLLATILGTACLAIASGI

YLLAAVRGEQWTPIEPKPRERPQIGGTIKPPSNPPRPPAEARKKPSEEEAAVAAGGPP  
GGPQVNPPIPTDEVV

>sp|P04839|CY24B\_HUMAN Cytochrome b-245 heavy chain OS=Homo sapiens GN=CYBB PE=1 SV=2

MGNWAVNEGLSIFVILVWLGLNVFLFVWYYRVYDIPPKFFYTRKLLGSALALARAPAACL  
NFNCMLILLPVCNLLSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAIHTIAHL  
FNVEWCVNARVNSDPYSVALSELGDRQNESYLNFAFKRIKNPEGGLYLAVTLLAGITGV  
VITLCLILIIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAERIVRGQTAESLAVHN  
ITVCEQKISEWGKIKECPIPFAGNPPMTWKWIVGPMFLYLCELRVRFWRSQQKVITKV  
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKEWHPFLLTSAPEEDFFSIHIRIVGD  
WTEGLFNACGCDKQEFQDAWKLPKIAVDGPFGTASEDVFSYEVVMLVGAGIGVTPFASIL  
KSVWYKYCNNATNLKLLKIYFYWLCRDTHAFEFADLLQLLESQMQRNAGFLSYNIYL  
TGWDESQANHFAVHHDEEKDVIITGLKQKTLYGRPNWDNEFKTIASQHPNTRIGVFLCGPE  
ALAETLSKQSISSNESGPRGVHFIENKFN

>sp|P49447|CY561\_HUMAN Cytochrome b561 OS=Homo sapiens GN=CYB561 PE=1 SV=2

MEGGAAAAPTALPYVAFSQLLGLTLVAMTGAWLGLYRGGAWESDLQFNAHPLCMVIG  
LIFLQGNALLVYRVFRNEAKRTTKVLHGLLHIFALVIALVGLVAVFDYHRKKGYADLYSL  
HSWCGILVFLYFVQWLVGFSFFLFPGASFSLRSRYRPQHIFFGATIFLLSVGTALLGLK  
EALLFNLGGKYSAFEPEGVLANVLGLLACFGGAVLYILTRADWKRPSQAEEQALSMDFK  
TLTEGDSPGSQ

>sp|Q1MSJ5|CSPP1\_HUMAN Centrosome and spindle pole-associated protein 1 OS=Homo sapiens  
GN=CSPP1 PE=1 SV=4

MLFPLQVAAVTSSVRDDPLEHCVSPRTRARSPEICKMADNLDEFIEEQKARLAEDKAELE  
SDPPYMEMKGKLSAKLSENSKILISMAKENIPPNSQQTRGSLGIDYGLSLPLGEDYERKK  
HKLKEELRQDYRRYLQGITQGKRKKNFLSTSETDPSTLGVSLPIGERLSAKERLKLERN  
KEYNQFLRGKEESSEKFRQVEKSTEPKSQRNKKPIGQVKPDLTSQIQTSCENSEGPRKDV  
LTPSEAYEELLNQRRLLEEDRYRQLDDEIELNRRIKKANEEVGISNLKHQRFASKAGIP  
DRRFHRFNEDRVFDRRYHRPDQDEPVSEEMDERFRYESDFDRRLSRVYTNDRMHRNKRGN  
MPPMEHDGDVIEQSNIRISSAENKSAPDNETSKSANQDTCSPFAGMLFGGEDRELIQRRK  
EKYRLELLEQMAEQQRNKRREKDLELRVAASGAQDPEKSPDRLKQFSVAPRHFEEMIPPE  
RPRIAFQTPLPPLSAPSVPPIPSVHPVPSQNEDLRSLGSSALGEMVSPRIAPLPPPPLP  
PLATNYRTPYDDAYFYGSRNTFDPSLAYYGSGMMGVQPAAYVSAPVTHQLAQPVVNTVG  
QNELKITSQVINSGLIFEDKPKPSKQSLQSYQEALQQQIREREERRKKEREEKEEYK  
LEAEMRTYNPWGKGGGGAPLRDAKGNLITDLNRMHRQNIDAYHNPDAITYEDKRAVVSLD  
PNLATSNAENLEDAANKSSGHMQTQSSPFARGNVFGEPPTTELQIKQQELYKNFLRFQIEE  
KKQREEAERERLRIAEKEERRLAEQRARIQQEYEEQEKREKEEQRLKNEEHIRLAE  
ERQKEAERKKKEEYKYNLQLQHYCERDNLIGEETKHMQRPSPIVPALQNKIASKLQRP  
SVDSIIRSFIESSMSRAQSPVPARKNQLRAEEKKNVIMELSEMQRQLRSEERLQER  
LLHMSDDEIPIRKKERNPMDIFDMARHLQAPVRRQSPKGLDAATFQNVHDFNELKDRD  
SETRVDLKFMYLDPPRDHHTLEIQQQALLREQQKRLNRIKMQEGAKVDLDAIPSAKVREQ  
RMPRDDTSDFLKNLLESDSAFIGAYGETYPAIEDDVLPPPSQLPSARERRRNKWKGLDI  
DSSRPNVAPDGLSLKSISSVNVDELVRNNEERMRLNEFHKNPINTDDESSLVDPDDIMK  
HIGDDGSNSVATEPWLPGTSETLKRFAEQNLNQEQQQIPGKPGTFTWQGLSTAHG

>sp|Q9BQT9|CSTN3\_HUMAN Calsyntenin-3 OS=Homo sapiens GN=CLSTN3 PE=1 SV=1

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YAGEICGFRHLHSGVPFEAVILDKATGEGLIRAKEPVDCEAQKEHTFTTIQAYDCGEGPDG  
ANTKKSHKATVHVRVNDVNEFAPVFVERLYRAAVTEGKLYDRILRVEAIDGDCSPQYSQI  
CYEILTPNTPFLIDNDGNIENTEKLQYSGERLYKFTVTAYDCGKKRAADDAEVEIQVKP  
TCKPSWQGWNKRIEYAPGAGSLALFPGIRLETCDPLWNIQATIELQTSHVAKGCDRDNY  
SERALRKLCGAATGEVDLLPMPGPNANWTAGLSVHYSQDSSLIYWFNGTQAVQVPLGGPS  
GLGSGPQDLSDHFTLSFWMKHGVTQPNKGKKEEETIVCNTVQNEGDFSHYSLTVHGCRIA  
FLYWPLESARPVKFLWKLEQVCDDEWHHYALNLEFPTVTLYTDGISFDPALIHNDGLIH  
PPRREPALMIGACWTEKNKEKEKGDNSTDTTQGDPLSIHHYFHGYLAGFSVRSGRLESR  
EVIECLYACREGLDYRDFESLGKGMKVHVNPSQSLLTLEGDDVETFNHALQHVAYMNTLR  
FATPGVRPLRLTTAVKCFSEESCYSIPEVEGYVVVLQPDAPQILLSGTAHFARPAVDFEG  
TNGVPLFPDLQITCSISHQVEAKKDESWQGTVDTRMSDEIVHNLDGCEISLVGDDLDPE  
RESLLDTTSLQQRGLELTNTSAYLTIAGVESITVYEEILRQARYRLRHGAALYTRKFRL  
SCSEMNGRYSSENEFIVEVNLHSMNRVAHPSHVLSSQQFLHRGHQPPPEMAGHSLASSHR  
NSMIPSAATLIIVVCVGFVLVMVVLGLVRIHSLHRRVSGAGGPPGASSDPKDPDLFWDDS  
ALTIIVNPMESYQNRQSCVTGAVGGQDEDEDSSDSEVADSPSSDERRI IETPPHRY

>sp|Q9H1P6|CT085\_HUMAN Uncharacterized protein C20orf85 OS=Homo sapiens GN=C20orf85 PE=2 SV=1

MAQKPLSTAAERMNLVGQDEIWKYRLKAESERQNWPNWGFLLTPFEELIKCEEDLPT  
PKPKIELPERFRIRPVPVEKYIKVFPSPVPQTTQGFIGWRSAPVGLNKCLELDDAIRS  
CKGAFARELCWPKQGVH

>sp|Q9NUB4|CT141\_HUMAN Uncharacterized protein C20orf141 OS=Homo sapiens GN=C20orf141 PE=2 SV=1

MTRLCLPRPEAREDPVPPRGLGAGEGSGSPVRPPVSTWGPSWAQLLDSVLWL GALGLT  
IQAVFSTTGPAALLLVSLTFDILLHRPAGHTLPQRKLLTRGQSQGAGEGPGQEALLLQ  
MGTVSGQLSLQDALLLLMGLGPLLRACGMPLTLLGLAFCLHPWA

>sp|POC5K6|CT18\_HUMAN Putative tumor antigen NA88-A OS=Homo sapiens GN=VENTXP1 PE=5 SV=1  
MSPPSSMCSPVPLAAASGQNRMTQGQHFLQKV

>sp|Q8NHU0|CT453\_HUMAN Cancer/testis antigen family 45 member A3 OS=Homo sapiens GN=CT45A3 PE=1 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSL IAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTGFSKDRMMQKPGSNAPVGGNVTSSFSGDDLECRETASSPKSQR  
EINADIKRKLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFESIIKEAARCMRRDFVKH  
LKKKLKRM I

>sp|Q8NI51|CTCF\_L\_HUMAN Transcriptional repressor CTCFL OS=Homo sapiens GN=CTCF\_L PE=1 SV=2

MAATEISVLSEQFTKIKELELMPEKGLKEEEKDGVCREKDHRSPSELEAERTSGAFQDSV  
LEEEVELVLAPSESEKYILTLQTVHFTSEAVELQDMSLLSIQQQEGVQVVVQQPGPGLL  
WLEEGPRQSLQQCAISIQQELYSPEMEVLQFHAEENVMVASEDSKLAVSLAETTGLI  
KLEEEQEKNQLLAERTKEQLFFVETMSGDERSDEIVLTVSNSNVEEQEDQPTAGQADA EK  
AKSTKNQRKTGAKGTFHCDVCMFTSSRMSSFNRHMKHTHTSEKPHLCHLCLKTFRTVTLL  
RNHVNTHTGTRPYKNCNMAFVTS GELVRHRRYKHTHEKPFKCSMCKYASVEASKLRH  
VRSHTGERPFQCCQCSYASRDYTKLRHMRTHSGEKPYECHICHTRFTQSGTMKIHILQK  
HGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHERYALIQHQKTH  
KNEKRFKCKHCSYACKQERHMTAIRTHTGEKPFTCLSCNKCFRQKQLLNAHFRKYHDAN  
FIPTVYKCSKCGKFSRWINLHRHSEKCGSGEAKSAASGKGRRTKRKQTILKEATKGQK

EAAKGWKEAANGDEAAAAEEASTTKGEQFPGEMFPVACRETTARVKEEVDEGVTCEMLLNT  
MDK

>sp|Q16619|CTF1\_HUMAN Cardiotrophin-1 OS=Homo sapiens GN=CTF1 PE=1 SV=1  
MSRREGSLEDPTDSSVSLPHLEAKIRQTHSLAHLTKYAEQLLQEYVQLQGDPFGLPS  
FSPPRLPVAGLSAPAPSHAGLPVHERLRDLAAAALPPLDVCRRQAELNPRAPRLLR  
RLEDAARQARALGAAVEALLAALGAANRGPRAEPPAATASAASATGVFPAKVLGLRVCGL  
YREWLSRTEGDLGQLLPGGSA

>sp|Q99895|CTRC\_HUMAN Chymotrypsin-C OS=Homo sapiens GN=CTRC PE=1 SV=2  
MLGITVLAALLACASSCGVPSFPNLSARVVGEDARPHSWPWQISLQYLKNDTWRTGCG  
GTLIASNFVLTAHCISNTRTYRVAVGKNNLEVEDEEGSLFVGVDTHVHKRNALLLRN  
DIALIKLAEHVELSDTIQVACLPEKDSLLPKDYPCYVTGWRLWTNGPIADKLQQGLQPV  
VDHATCSRIDWWGFRVKKTMVCAGGDGVISACNGDSGGPLNCQLENGSWEVFGIVSFGSR  
RGCNTRKKPVVYTRVSAYIDWINEKMQL

>sp|Q86XQ3|CTSR3\_HUMAN Cation channel sperm-associated protein 3 OS=Homo sapiens  
GN=CATSPER3 PE=2 SV=1  
MSQHRHQHRSRVISSSPVDTSVGFCTFKKFKRNDDECRAVFKRVIMSRRFFKIIMISTV  
TSNAFFMALWTSYDIRYRLFRLLFESEIFFVSICTSELSMKVYVDPINYNKNGYNLLDVI  
IIIVMFLPYALRQLMGKQFTYLYIADGMQSLRILKLIGYSQGIRTLITAVGQTVYTVASV  
LLLLFLLMYIFAILGFCLFGSPDNGDHDNNGNLAAFFTLFSLATVDGWTDLQKQLDNRE  
FALSRAFTIIFILLASFIFLNMFMVGMIMHTEDSIRKFERELMLEQQEMLMGEKQVILQR  
QQEEISRLMHIQKNADCTSFSELVENFKKTLSHDTPMVLDDFGTSLPFIDYFSTLDYQD  
TTVHKLQELYEIVHVLSLMLEDLPEKPKSLEKVDK

>sp|Q9NV44|CU077\_HUMAN Putative uncharacterized protein encoded by LINC00846 OS=Homo  
sapiens GN=LINC00846 PE=5 SV=1  
MERPLIWHLPGLFPRPQFCPCSCGFLHCGSHGEETRVPLVESGKNSIFTSLPANDHSSF  
TTSAGTYLGKETGPMWWPSLRGCRASGVALMHSTAQACGHHSPWAAWHLDSFPLAEVCV  
ALQGRI

>sp|Q96M42|CU129\_HUMAN Putative uncharacterized protein encoded by LINC00479 OS=Homo  
sapiens GN=LINC00479 PE=5 SV=2  
MDGGSRLASPAAMDGGALEPAQQLSSLEGWTGQDRLLIPRWREARSLSWMQSPDLESSKC  
LTQGCCYPQAWILACSAALLQALASSDLQGS�DRVNYSRGLGPRVRLFVFPDVTGSTRKS  
GSTGNICSVMLNVATGCVRIEK

>sp|O60888|CUTA\_HUMAN Protein CutA OS=Homo sapiens GN=CUTA PE=1 SV=2  
MSGGRAPAVLLGGVASLLLSFVWMPALLPVASRLLLLPRVLLTMASGSPPTQPSPASDSG  
SGYVPGSVSAAFVTCPNEKVAKEIARAVVEKRLAACVNLIPIQITSIYEWKGKIEEDSEVL  
MMIKTQSSLPALTDFVRSVHPYEVAEVIAPVEQGNFPYLQWVRQVTESVSDSITVLP

>sp|Q9NTM9|CUTC\_HUMAN Copper homeostasis protein cutC homolog OS=Homo sapiens GN=CUTC  
PE=1 SV=1  
MKRQGASSERKRARIPSGKAGAANGFLMEVCVDSVESAVNAERGGADRIELCSGLSEGGT  
TPSMGVQLQVVKQSVQIPVFVMIRPRGGDFLYSDREIEVMKADIRLAKLYGADGLVFGALT  
EDGHIDKELCMSLMAICRPLPVTFHRAFDMVHDPMAALETLLTLGFERVLTSGCDSSALE  
GLPLIKRLIEQAKGRIVMPGGGITDRNLQRILEGSGATEFHCSARSTRDSGMKFRNSSV  
AMGASLSCSEYSLKVTDVTKVRTLNIAKNILV

>sp|Q86UP6|CUZD1\_HUMAN CUB and zona pellucida-like domain-containing protein 1 OS=Homo sapiens GN=CUZD1 PE=2 SV=1

MELVRRMLPLTLLILSCLAELTMAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTW  
TIERPENKSIRIIFSYYQLDPDGSCSENIKVFDTSSNGPLLGGVCSKNDYVPVFESS  
STLTFQIVTDSARIQRTVFVFFYYFFSPNISIPNCGGYLDTLEGSFTSPNYPKPHPELAYC  
VWHIQVEKDYKIKLNFEIFLEIDKQCKFDFLAIYDGPSTNSGLIGQVCGRVTPTFESS  
NSLTVVLSTDYANSYRGFSASYTSIYAENINTSLTCSSDRMVIIISKSYLEAFNSNGNN  
LQLKDPTCRPKLSNVVEFSVPLNGCGTIRKVEDQSITYTNIITFSASSTSEVITRQKQLQ  
IIVKCEMGHNSTVEIIYITEDDVIQSQUALGKYNTSMALFESNSFEKTILESPYYVDLNQ  
TLFVQVSLHTSDPNLVVFLDTCRASPTSDFASPTYDLIKSGCSRDETCKVYPLFGHYGRF  
QFNAFKFLRSMSSVYLQCKVLICDSSDHQSRCNQGCVSRSKRDISSYKWKTDSIIGPIRL  
KRDRSASGNSGFQHETHAEETPNQPFNSVHLFSFMVLALNVTVATITVRHFVNQRADYK  
YQKLQNY

>sp|Q6NSI4|CX057\_HUMAN Uncharacterized protein CXorf57 OS=Homo sapiens GN=CXorf57 PE=1 SV=2

MSGESGQPEAGPSHAGLDWPNPERNRAGVPGGVIRRAGSQGPRSWIQKVLEQIMDSPRQC  
VTPSEVVPVTVLAVQRYLLEDEPRDTPVKPLYCYDVTISDGVYQEKCYLDPSLNSLVYQ  
NILKVGIQMRISRVSLYNEKRIGQGILCIDNVHCGETSDSISLETFRNRAHQEKPERP  
LRGGKSHYLALWNNEDPYGDIWLDKQPEEHNFSDTKIISLSHLEMTWTNRRNFPALLVR  
ILHKSRLRYYGKPKDKMIEPYQTFLEVADSSGTVSVIMWNALCPEWYKSLRVGLVLLQD  
YSVKKSYFPRIQPVVPDQIKLISTMEICLNLRDPPTNIIIIPEKQVKPEWRLPKLNHRF  
TTRSELDDMPENCICDVIGLLVFVGRVQRSKKKENREDFWSYRWIHIADGTSEQPFIVEL  
FSTSQPEIFENIYPMAYFVCTQLKVVRNDNQVPKLLYLTTNESGVFITGHRGQPYTYDA  
KVKNFIQWIRTKSDSGEQKNMIGGYPPYPVPETFSKYSSSIKVESLLTAISEVRKEIE  
DLQYREQKRIAIQGIITAIKYIPHSSATESASASETLRNANRPSTSQAARVEIQERNKGR  
HQDDEPVNSQYFQTTSTNLSLKNIRILQGPHANPVAVPQPGASVQTKGIKPGMPSIFNR  
RANINANLQGKARKTISDRWESQLWREKKFGLIDHLHYSRVYPESIPRKFMFEHRKFLSD  
QYNSQPAKYVPPEGRPPKLDDFKSARSLGHFEVTILGLNHEIAIDVAFLPMYCPEDIRTS  
QIDTLLTSMNYSCAYQDGTGNDRLPGPRAVAGDI IKAATELDRVHIVGILDICNLGNK  
VEVYLHKIYSPENTS

>sp|Q8NBI2|CYAC3\_HUMAN Cytochrome b ascorbate-dependent protein 3 OS=Homo sapiens GN=CYB561A3 PE=1 SV=1

MVSGRFYLSCLLLGSLGSMCILFTIYWMQYWRGGFAWNGSIYMFNWHPVLMVAGMVVFYQ  
GASLVYRLPQSWVGPKLPWKLLHAALHLMAFVLTVVGLVAVFTFHNHGRTANLYSLHSWL  
GITTVFLFACQWFLGFAVFLLPWASMWLRSLLKPIHVFFGAAILSLSIASVISGINEKLF  
FSLKNTTRPYHSLPSEAVFANSTGMLVVAFGLLVLYILLASSWKRPEPGILTDRQPLLHD  
GE

>sp|043169|CYB5B\_HUMAN Cytochrome b5 type B OS=Homo sapiens GN=CYB5B PE=1 SV=2

MATAEASGSDGKGQEVETSVTYRLEEVAKRNSLKELWLVIHGRVYDVTRFLNEHPGGEE  
VLLEQAGVDASESFEDVGHSSDAREMLKQYYIGDIHPSDLKPESGSKDPSKNDTCKSCWA  
YWILPIIGAVLLGFLYRYTSESKSS

>sp|Q53TN4|CYBR1\_HUMAN Cytochrome b reductase 1 OS=Homo sapiens GN=CYBRD1 PE=1 SV=1

MAMEGYWRFLALLGSALLVGFLSVIFALVWVLHYREGLGWDGSALEFNWHPVLMVTGFVF  
IQGIAIIVYRLPWTWKCSKLLMKSIHAGLNAVAAILAIISVVAVFENHNVNNIANMYSLH

SWVGLIAVICYLLQLLSGFSVFLLPWAPLSLRAFLMPIHVYSGIVIFGTVIATALMGLTE  
KLIFSLRDPAYSTFPPEGVFVNTLGLLILVFGALIFWIVTRPQWKRPKEPNSTILHPNGG  
TEQGARGSMPAYSGNNMDKSDSELNSEVAARKRNALDEAGQRSTM

>sp|Q7L576|CYFP1\_HUMAN Cytoplasmic FMR1-interacting protein 1 OS=Homo sapiens GN=CYFIP1  
PE=1 SV=1

MAAQVTLEDALSNVDLLEELPLPDQQPCIEPPSSLLYQPNFNTNFEDRNAFVTGIARYI  
EQATVHSSMNEMLEEGQEYAVMLYTWRSCSRAIPQVKCNEQPNRVEIYEKTVEVLEPEVT  
KLMNMFYFQRNAIERFCGEVRRLLCHAERRKDFVSEAYLITLGKFINMFAVLDELKNMKCS  
VKNDHSAYKRAAQFLRKMAPQSIQESQNLSMFLANHNKITQSLQQQLEVISGYEELLAD  
IVNLCVDYYENRMYLTPSEKHMLLKVMGFGLYLMDGSVSNYKLDKAKKRINLSKIDKYFK  
QLQVPLFGDMQIELARYIKTSAHYEENKSRWTCTSSGSSPQYNICEQMIQIREDHMRFI  
SELARYSNSEVVTGSGRQEAQKTDAYRKLFDLALQGLQLLSQWSAHVMEVYSWKL VHPT  
DKYSNKDCPDSAEEYERATRYNYTSEEKFALVEVIAMIKGLQVLMGRMESVFNHAIRHTV  
YAALQDFSQVTLREPLRQA IKKKKNVIQSVLQAIRKTVCDWETGHEPFNDPALRGEKDPK  
SGFDIKVPRRAVGPSTQLYVVRTMLES LIADKSGSKTLRSSLEGPTILDIEKFHRESF  
FYTHLINFSETLQQCCDLSQLWFREFFLELTMGRRIQFPIEMSMPWILTDHILETKEASM  
MEYVLYSLDLYNDSAHYALTRFNKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKVMAGS  
LLLDKRLRSECKNQGATIHLPSPRYETLLKQRHVQLLGRSIDLNRLITQRVSAAMYKSL  
ELAIGRFESEDLTSIVELDGLLEINRMTHKLLSRYLTLDGFDAMFREANHNVSAPYGRIT  
LHVFWEINYDFLPNYCYNGSTNRFTVLPFSQEFQRDKQPNAQPQYLHGSKALNLAYSS  
IYGSYRNFVGPPHFQVICRLLGYQGIAVVMEEELLKVVSLLQGTILQYVKTLMEMPCKIC  
RLPRHEYGSPGILEFFHHQLKDIVEYAEKTVCFQNLREVGNAILFCLLIEQSLSLEEVC  
DLLHAAPFQNILPRVHVKEGERLDAKMKRLESKYAPLHLVPLIERLGTQQIAIAREGDL  
LTKERLCCGLSMFEVILTRIRSFDDPIWRGPLPSNGVMHVDECVEFHRLWSAMQFVYCI  
PVGTHEFTVEQCFDGLHWAGCMIIVLLGQQRRAVLDFCYHLLKVQKHDGKDEI IKNVP  
LKKMVERIRKFQILNDEIITILDKYLKSGDGEGTPVEHVRCFQPPIHQSLASS

>sp|Q15438|CYH1\_HUMAN Cytohesin-1 OS=Homo sapiens GN=CYTH1 PE=1 SV=1

MEEDDSYVPSDLTAEERQELENIRRRKQELLADIQRLKDEIAEVANEIENLGSTEERKNM  
QRNKQVAMGRKKFNMDPKKGIQFLIENDLLKNTCEDIAQFLYKGEGLNKTAIGDYLGERD  
EFNIQVLHAFVELHEFTDLNLVQALRQFLWSFRLPGEAQKIDRMMEAFQAQRYCQCNGVF  
QSTDTCYVLSFAIIMLNTSLHNPVNDKPTVERFIAMNRGINDGGDLPEELLRNLYESIK  
NEPFKIPEDDGNDLTHTFFNPDRGWLLKLGGRVKTWKRRWFILTDNCLYYFEYTTDKE  
PRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQVIKACKTEADGRVVEGNHTVYRISAP  
TPEEKEEWIKCIKAAISRDPFYEMLAARKKKVSSTKRH

>sp|Q8NCS7|CTL5\_HUMAN Choline transporter-like protein 5 OS=Homo sapiens GN=SLC44A5 PE=2  
SV=4

MNDTEKPADTPSEEDFGDPRTYDPDFKGPVANRSCTDVLCCMIFLLCIIGYIVLGLVAW  
VHGDPRAAYPTDSQGHFCGQKGTNENKTIIFYFNLLRCTSPSVLLNLQCPTTQICVSK  
CPEKFLTYVEMQLLYTKDKSYWEDYRQFCKTTAKPVKSLTQLLLDDDCPTAIFPSKPFLQ  
RCFPDFSTKNGTLTIGSKMMFQDGNNGGTRSVELGIAANGINKLLDAKSLGLKFVFDYAR  
TWYWILIGLTIAMVLSWIFLILLRFIAGCLFWVFMIGVIGIIGYGIWHCYQQYTNLQERP  
SSVLTIIYDIGIQTNISMYFELQQTWFTFMIILCIIEVIVILMLIFLRNRIRVAIILLKEG  
SKAIGYVPSTLVYPALTFILLICICYWVVTAVFLATSGVPVYKVIAPGGHCIHENQTC  
PEIFNTTEIAKACPGALCNFAFYGGKSLYHQYIPTFHVYNLFVFLWLINFVIALGQCALA

GAFATYYWAMKKPDDIPRYPLFTAFGRAIRYHTGSLAFGSLIIALIQMFKIVLEYLDHRL  
KRTQNTLSKFLQCCLRCCFWCLENAIKFLNRNAYIMIAIYGRNFCRSAKDAFNLLMRNVL  
KVAVTDEVTYFVFLGLKLLVAGSIGVLAFLFFTQRLPVIAQGPASLNYWVPLLTIVIFGS  
YLIAHGFFSVYAMCVETIFICFLEDLERNDGSTARPYFVTPNLHGILIKKQLVPQKQKE

>sp|Q7Z7A3|CTU1\_HUMAN Cytoplasmic tRNA 2-thiolation protein 1 OS=Homo sapiens GN=CTU1  
PE=1 SV=1

MPAPPCASCHAARAALRRPLSGQALCGACFAAFEAEVLHTVLAGRLLPPGAVVAVGASG  
GKDSTVLAHVLRALAPRLGISLQLVAVDEGIGGYRDAALAAVRRQAARWELPLTVVAYED  
LFGGWTMDAVARSTAGSGRSRSCCTFCGVLRRRALEEGARRVGATHIVTGHNADDMAETV  
LMNFLRGDAGRLARGGGLGSPGEGGALPCRPLQFASQKEVVLYAHFRRLDYFSEECVYA  
PEAFRGHARDLLKRLEAARPSAVLDLVHSAERLALAPAARPPRPGACSRGALASRALCQ  
ACALLDGLNRGRPLAIGKRRGLDEEATPGTPGDPARPPASKAVPTF

>sp|Q2VPK5|CTU2\_HUMAN Cytoplasmic tRNA 2-thiolation protein 2 OS=Homo sapiens GN=CTU2  
PE=1 SV=1

MCQVGEDYGEPAPEEPPAPRPSREQKCVKCKEAQPVVIRAGDAFCRDCFKAIFYVHKFR  
AMLGKNRILFPGKVLAWSGGPSSSSMVWQVLEGLSQDSAKRLRFVAGVIFVDEGAACG  
QSLEERSKTLAEVKPILQATGFPWHVVALEEVFSLPPSVLWCSAQELVGSEGAYKAAVDS  
FLQQQHVLGAGGGPGPTQGEEQPPQPLDPQNLARPPAPAQTEALSQLFCSVRTLTAKEE  
LLQTLRTHLILHMARAHGYSKVMTGDSCTRLAIKMTNLALGRGAFLAWDTGFSDERHGD  
VVVVRPMDHTLKEVAFYNRLFSVPSVFTPAVDTKAPEKASIHRLMEAFILRLQTQFPST  
VSTVYRTSEKLVKGRDGAAGDSGPRCLLCMCALDVAADSATAFGAQTSSRLSQMQSP  
IPLTETRTPPGCCSPGVGWAQRCQGACRREDPQACIEEQLCYSCRVMKDLPSLDPLP  
PYILAEACLRTQRAWGLQEIRDCLIEDSDDEAGQS

>sp|Q13617|CUL2\_HUMAN Cullin-2 OS=Homo sapiens GN=CUL2 PE=1 SV=2

MSLKPRVVDDETNKLLTTIKAVVMLEYVERATWNDRFSDIYALCVAYPEPLGERLYTE  
TKIFLENHVRHLHKRVLESEEQVLVMYHRYWEEYSKGADYMDCLYRYLNTQFIKKNKLTE  
ADLYGYGGVDMNEPLMEIGELALDMWRKLMVEPLQAILRMLLREIKNDRGGEDPNQKV  
IHGVINSFVHVEYKKKFKPLKFYQEIFESPFLTETGEYYKQEASNLLQESNCSQYMEKVL  
GRLKDEEIRCRKYLHPSSYTKVIEHCQRMVADHLQFLHAECHNIIRQEKKNDMANMYVL  
LRVSTGLPHMIQELQNHIDHDEGLRATSNLTQENMPTLFVESVLEVHGKFVQLINTVLNG  
DQHFMSALDKALTSVVNYREP KSVCKAPPELLAKYCDNLLKKSAGMTENEVEDRLTSFIT  
VFKYIDDKDVFKFYARMLAKRLIHGLSMSMDSEEAMINKLKQACGYEFTSKLHRMYTDM  
SVSADLNNKFNNFIKNQDTVIDLGISFQIYVLQAGAWPLTQAPSSTFAIPQELEKSVQMF  
ELFYSQHFSGRKLTWLHYLCTGEVKMNYLGKPYVAMVTYQMAVLLAFNNSETVSYKELQ  
DSTQMNEKELTKTIKSLDVKMINHDSEKEDIDAESSFSLNMNFSSKRTKFKITTSMQKD  
TPQEMEQRSAVDEDRKMYLQAAIVRIMKARKVLRHNALIQEVISQSRARFNPSISMIKK  
CIEVLIDKQYIERSQASADEYSYVA

>sp|Q5VT33|CX031\_HUMAN Putative uncharacterized protein encoded by LINC01545 OS=Homo  
sapiens GN=LINC01545 PE=4 SV=1

MYRMKRSQVRTPIRRLIRNVNLDWEDSMALGCTTVIERGTLRRLKRATLNTFLDSPVHVL  
LVMPKLIPEHWKVEDVKR

>sp|A8MYA2|CX049\_HUMAN Uncharacterized protein CXorf49 OS=Homo sapiens GN=CXorf49 PE=2  
SV=3

MSSPDKVSVCAGFDLEGGKKAGSRTASPGAPGAHSHGLDLGVPGSGDGKSESGFTDPEG



FSFESESELIEQGRVVLWGREGRPGETPVDDQGDVVDYSFYLADEPAAIVPPPSVQGHFPF  
EGAAAECSAENWADAIEVGPSSGRDVLGHSPGKWWQASAGRLHLCGPGPVRAWKNPERGSKS  
RWSLRVDPQQPSAKGPTRLPTHSDSADESSDLPLMKVGICRNEGSQAKPGSPKKRADTS  
RQASFHCKESYLPVPGRFLTSAPRGLTPVAERPAVGELEDSPQKKMQSRAWGKVEVRPSC  
SGAAAAGALPQGLSRRKMAGGKSLGGASQLALGRGFACGERLSAAPPEPATFPPFSGV  
RPQGMSSKKPKPKHSSPGKKPAGRKTRESQAAAREDNPNRDEVPRALPTHRPLPRLS  
VRRGEFSSSDPNIRAPQLPGTSEPSAYSPGGLVPRRHAPSGNQPPVHPPRPERQQQPPG  
AQGCPRCIWLQREIEDLTQQLAAMQFLTDKFQDL

>sp|P49238|CX3C1\_HUMAN CX3C chemokine receptor 1 OS=Homo sapiens GN=CX3CR1 PE=1 SV=1

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSK  
KPKSVTDIYLLNLALSDLLFVATLPFWTHYLINEKGLHNAMCKFTTAFFFIGFFGSIFFI  
TVISIDRYLAIVLAANSMNRTVQHGVTISLGVWAAAILVAAPQFMFTKQKENECLGDYP  
EVLQEIWVPLRNVETNFLGFLPLLIMSICYFRIIQTLFSCKNHKKAKAIKLILLVVIVF  
FLFWTPYNVMIFLETCLKLYDFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF  
RRYLHYLYGKCLAVLCGRSVHVDSSSESQSRHGSVLSSNFTYHTSDGDALLL

>sp|P35212|CXA4\_HUMAN Gap junction alpha-4 protein OS=Homo sapiens GN=GJA4 PE=1 SV=3

MGDWGFLEKLLDQVQEHSTVVGKIWLTVLFIIFRILILGLAGESVWGDEQSDFCNTAQPG  
CTNVCYDQAFPISHIRYVWLQFLFVSTPTLVYLGHVIYLSRREERLRQKEGELRALPAKD  
PQVERALAAVERQMAKISVAEDGRLRIRGALMGTYVASVLCKSVLEAGFLYGQWRLYGWT  
MEPVFVCQRAPCPYLVDVCFVSRPTEKTIFIIFMLVVGLISLVLNLELVHLLCRCLSRGM  
RARQGQDAPPTQGTSSDPYTDQVFFYLPVGQGPSSPPCPTYNGLSSSEQNWANLTTEERL  
ASSRPPLFLDPPPQNGQKPPSRPSSSASKKQYV

>sp|P48165|CXA8\_HUMAN Gap junction alpha-8 protein OS=Homo sapiens GN=GJA8 PE=1 SV=3

MGDWSFLGNILEEVNEHSTVIGRWLTVLFIIFRILILGTAAEFVWGDEQSDFCNTQQPG  
CENVCYDEAFPISHIRLWVLQIIFVSTPSLMYVGHAVHYVRMEEKRSREAEELGQQAGT  
NGGPDQGSVKSSSGSKGTTKFRLEGTLRTYICHIIFKTLFEVGFIVGHYFLYGFRILPL  
YRCSRWPCPNVDCFVSRPTEKTIFILFMLSVASVSLFLNMELGHLGLKGIRSALKRPV  
EQPLGEIPEKSLHSIAVSSIQKAKGYQLLEEEKIVSHYFPLTEVGMVETSPLPAKPFNQF  
EEKISTGPLGDLRSGYQETLPSYAQVGAQEVEGEGPPAEEGAEPVEGKKEEAERLTTEE  
QEKVAVPEGEKVETPGVDKEGEKEEPQSEKVSQGLPAEKTPSLCPCLTDDARPLSRLS  
KASSRARSDDLT

>sp|Q9NTQ9|CXB4\_HUMAN Gap junction beta-4 protein OS=Homo sapiens GN=GJB4 PE=1 SV=1

MNWAFLQGLLSGVNKYSTVLSRIWLSVVFIFRVLVYVVAEEVWDDEQKDFVCNTKQPGC  
PNVCYDEFFPVSHVRLWALQLILVTCPSSLVVMHVAYREERERKHHHLKHGPNAPSLYDNL  
SKKRGGLWWTYLLSLIFKAAVDAGFLYIFHRLYKDYMPPRVACSVPCPHTVDCYISRP  
TEKKVFYTFMVTAAICILLNLSEVFYLVGKRCMEIFGPRHRRPRCRECLPDTCPYPVLS  
QGGHPEDGNSVLMKAGSAPVDAGGYP

>sp|Q95452|CXB6\_HUMAN Gap junction beta-6 protein OS=Homo sapiens GN=GJB6 PE=1 SV=2

MDWGTLHTFIGGVNKHSTSIGKVWITVIFIRVMILVVAQEVEWGDEQEDFVCNTLQPGC  
KNVCYDHFFPVSHIRLWALQLIFVSTPALLVAMHVAYYRHETTRKFRREKRNDFKDIED  
IKKQKVRIEGLWWTYTSSIFFRIIFEAAFMYVFYFLYNGYHLPWVLKCGIDPCPNLVDC  
FISRPTKTVFTIFMISASVICMLLNVAELCYLLLVKCFRRSKRAQTQKNHPNHAKESK  
QNEMNELISDSGQNAITGFPS

>sp|Q07325|CXCL9\_HUMAN C-X-C motif chemokine 9 OS=Homo sapiens GN=CXCL9 PE=1 SV=1

MKKSGLVFLLLGIILLVLIGVQGTPTVVRKGRCSCTSTNQGTIHLQSLKDLKQFAPSPSCEK  
IEIIATLKNVQTCLNPDSADVKELIKKEKQVSQKKKQKNGKKHQQKKVLKVRKSQRSR  
QKKT

>sp|P49682|CXCR3\_HUMAN C-X-C chemokine receptor type 3 OS=Homo sapiens GN=CXCR3 PE=1 SV=2  
MVLEVSDHQVLNDAEVAALLENFSSSYDYGENESDSCCTSPPCPDQFSLNFDRAFLPALY  
SLLFLLGLLGNGAVAAVLLSRRTALSSTDTFLLHLAVADTLLVLTPLWAVDAAVQWVFG  
SGLCKVAGALFNINFYAGALLACISFDRYLNIVHATQLYRRGPPARVTLTCLAVWGLCL  
LFALPDFIFLSAHHDERLNATHCQYNFPQVGRALRVLQLVAGFLLPLLVMAYCYAHILA  
VLLVSRGQRRRLRAMLVVVVVVAFALCWTPYHLVVLVDILMDLGALARNCGRESRVDVAK  
SVTSGLGMYHCCCLNPLLYAFVGVKFRERMWMLLLRLGCPNQRLQRQPSSSRDSSWSET  
SEASYSGL

>sp|A6NN92|CXE1\_HUMAN Gap junction epsilon-1 protein OS=Homo sapiens GN=GJE1 PE=3 SV=1  
MSLNYIKNFYEGCVKPPTVIGQFHTLFFGSIRIFFLGVLFVAVYGNALHFICDPDKREV  
NLFYCNQFRPITPQVSFSALQLVIVLVPGLFHLAACKSINQECILQKPIYTIYILSV  
LLRISLAAIAFWLQIYLFQVKSLYLCDARSLGENMIIRCMVPEHFEKTIFLIAINTFT  
TITILLFVAEIFEIIFRRLYFPFRQ

>sp|Q8NFK1|CXG3\_HUMAN Gap junction gamma-3 protein OS=Homo sapiens GN=GJC3 PE=2 SV=1  
MGRFLRLRLAEESRRSTPVGRLLLPVLLGFRLVLLAASGPGVYGDEQSEFVCHTQQPGC  
KAACFDAFHPLSPLRFWVFQVILVAVPSALYMGFTLYHVIWHWELSGKGKEETLIQGRE  
GNTDVPGAGSLRLLWAYVAQLGARLVLEGAALGLQYHLYGFQMPSSFACRREPCLGSITC  
NLSRPSEKTIFLKTMFGVSGFCLLFTLELVLLGLGRWWRTWKHKSSSSKYFLTSESTRR  
HKKATDSLPPVETKEQFQEAVPGRSLAQEKQRPVGPDA

>sp|Q9H2A7|CXL16\_HUMAN C-X-C motif chemokine 16 OS=Homo sapiens GN=CXCL16 PE=2 SV=4  
MGRDLRPGSRVLLLLLLLLLVYLTQPGNGNEGSVTGSCYCGKRISSDPPSVQFMNRLRK  
HLRAYHRCLYYTRFQLLSWSVCGGNKDPWVQELMSCLDLKECGHAYSGIVAHQKHLPTS  
PPISQASEGASSDIHTPAQMLLSTLQSTQRPTLPVGSLSDEKELTRPNETTIHTAGHSLA  
AGPEAGENQKQPEKNAGPTARTSATVPVLCLLAIIIFILTAALSYVLCKRRRGQSPQSSPD  
LPVHYIPVAPDSNT

>sp|Q6UXB2|CXL17\_HUMAN C-X-C motif chemokine 17 OS=Homo sapiens GN=CXCL17 PE=1 SV=1  
MKVLISLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP  
RRKFMTVSGLPKKQCPDHFKNVKKTRHQRHHRKPNKHSRACQQLKQCQLRSFALPL

>sp|Q7LFL8|CXXC5\_HUMAN CXXC-type zinc finger protein 5 OS=Homo sapiens GN=CXXC5 PE=1 SV=1  
MSSLGGGSQDAGSSSSSTNGSGSGSGSPKAGAADKSAVVAAAAPASVADDTPPPERN  
KSGIISEPLNKSRLRSRPLSHYSSFGSGSGSGSMMGGESADKATAAAAAASLLANGHD  
LAAAMAVDKSNPTSKHKSGAVASLLSKAERATELAAEGQLTLQQFAQSTEMLKRVVQEHL  
PLMSEAGAGLPDMEAVAGAEALNGQSDFPYLGAFPINPGLFIMTPAGVFLAESALHMAGL  
AEYPMQGELASAISSGKKRKRRCGMCAPRRRINCEQCSSCRNRKTGHQICKFRKCEELK  
KKPSAALEKVMLPTGAARWFQ

>sp|P08574|CY1\_HUMAN Cytochrome c1, heme protein, mitochondrial OS=Homo sapiens GN=CYC1  
PE=1 SV=3

MAAAAASLRGVVLGPRGAGLPGARARGLLCSARPGQLPLRTPQAVALSLSKGLSRGRKVM  
LSALGMLAAGGAGLAMALHSASDLELHPPSYPSWHRGLSSLDHTSIRRGFQVYKQV  
CASCHSMDFVAYRHLVGVCYTEDEAKELAAEVEVQDGPNEGEMFMRPGKLFDFYFPKPYP  
NSEAARAANNGALPPDLSYIVRARHGGEDYVFSLLTGYPEPTGVSLREGLYFNYPYFGQ

AIAMAPPIYTDVLEFDDGTPATMSQIAKDVCTFLRWASEPEHHRKRMGLKMLMMALLV  
PLVYTIKRHKWSVLKSRKLAYRPPK

>sp|Q9HB71|CYBP\_HUMAN Calcyclin-binding protein OS=Homo sapiens GN=CACYBP PE=1 SV=2  
MASEELQKDLEEVKVLLEKATRKRVRDALTAEKSKIETEIKNMQQKSQKKAELLDNEKP  
AAVAPITTYGTVKISNYGWDQSDKFVKIYITLTGVHQVPTENVQVHFTERSFDLLVKNL  
NGKSYSMIVNNLLKPISVEGSSKKVKTDTVLILCRKKVENTRWYDYLTVQVEKECKEKEKPS  
YDTETDPSEGLMNVLKKIYEDGDDDMKRTINKAWVESREKQAKGDTEF

>sp|Q9NRR1|CYTL1\_HUMAN Cytokine-like protein 1 OS=Homo sapiens GN=CYTL1 PE=1 SV=1  
MRTPGPLPVLLLLLAGAPAARPTPTCYSRMRALSQEITRDFNLLQVSEPSEPCVRYLPR  
LYLDIHNYCVLDKLRDFVASPPCWKVAQVDSLKDKARKLYTIMNSFCRRDLVFLDDCNA  
LEYPIPVTTVLPRQR

>sp|P01037|CYTN\_HUMAN Cystatin-SN OS=Homo sapiens GN=CST1 PE=1 SV=3  
MAQYLSTLLLLLATLAVALAWSPKEEDRIIPGGIYNADLNDEWVQRALHFAISEYNKATK  
DDYYRRPLRVLRARQQTVGGVNYFFDVEVGRITCTKSQPNLDTCAFHEQPELQKKQLCSF  
EIYEV PWENRRSLVKSRCQES

>sp|Q8NG35|D105A\_HUMAN Beta-defensin 105 OS=Homo sapiens GN=DEFB105A PE=2 SV=1  
MALIRKTFYFLFAMFFILVQLPSGCQAGLDFSQPFPSGEFAVCESCKLGRGKRKECLEN  
EKPDGNCRLNFLCCRQRI

>sp|Q8IZN7|D107A\_HUMAN Beta-defensin 107 OS=Homo sapiens GN=DEFB107A PE=2 SV=3  
MPGAMKIFVFILAALILLAQIFQARTAIHRALISKRMEGHCEAECLTFEVKIGGCRAELA  
PFCCKNRKKH

>sp|Q8NET1|D108B\_HUMAN Beta-defensin 108B OS=Homo sapiens GN=DEFB108B PE=2 SV=3  
MRIAVLLFAIFFFMSQVLPARGKFKEICERPNGSCRDFCLETEIHVGRCLNSQPCCLPLG  
HQPRIESTTPKKD

>sp|Q2PZI1|D19L1\_HUMAN Probable C-mannosyltransferase DPY19L1 OS=Homo sapiens GN=DPY19L1  
PE=2 SV=1  
MEGRPPPEGRPPPRPTGRAPGRRRRAVFAAVLHWSHITHLFENDRHFSHLSTLEREMAF  
RTEMGLYYSYFKTIVEAPSFLNGVWMIMNDKLTEYPLVINTLKRFNLYPEVILASWYRIY  
TKIMDLIGIQTKICWTVTRGEGLSPIESCEGLGPACFYVAVIFILNGLMMALFFIYGTY  
LSGSRLGGLVTVLCFFFNHGECTRMWTPPLRESFSYPFLVLQMLLVTHILRATKLYRGS  
LIALCISNVFFMLPWQFAQFVLLTQIASLFAVYVVGIDICKLRKIIYIHMISLALCFVL  
MFGNSMLLTSYYASSLVIIWILAMKPHFLKINVSELSLWVIQGCWFLFGTVILKYLSK  
IFGIADDAHIGNLLTSKFFSYKDFDTLLYTCAAEDFMEKETPLRYTKTLLLPVVLVVFV  
AIVRKIISDMGWGLAKQQTHVRKHQFDHGELVYHALQLLAYTALGILIMRLKLFLTPHMC  
VMASLICSRQLFGWLFCKVHPGAIVFAILAAMSIQGSANLQTQWNIVGEFSNLPQEELIE  
WIKYSTKPDVAFAGAMPTMASVKLSALRPVNHPHYEDAGLRARTKIVYSMYSRKAEEV  
KRELKLVNYYIIEESWCVRRSKPGCSMPEIWDVEDPANAGKTPLCNLLVKDSKPHFTT  
VFQNSVYKVLEVKE

>sp|Q6NUT2|D19L2\_HUMAN Probable C-mannosyltransferase DPY19L2 OS=Homo sapiens GN=DPY19L2  
PE=1 SV=2  
MRKQGVSSKRLQSSGRSQSKGRRGASLAREPEVEEEMEKSALGGKLPRGSWRSSPGRIQ  
SLKERKGLELEVAKTFLLGPFQFVRNSLAQLREKVQELQARRFSSRTTLGIAVFVAILH  
WLHLVTLFENDRHFSHLSSLEREMTFRTEMGLYYSYFKTII EAPSFLEGLWMIMNDRLTE  
YPLIINAIKRFHLYPEVIIASWYCTFMGIMNLFLETKTCWNVTRIEPLNEVQSCEGLGD

PACFYVGVIFILNGLMMGLFFMYGAYLSGTQLGGLITVLCFFFNHGEATRVMTTPPLRES  
FSYPFLVLQMCILTLILRTSSNDRPFIALCLSNVAFMLPWQFAQFILFTQIASLFPMYV  
VGYIEPSKFKKIIYMNMISSVTLFSILMFGNMYLSSYYSSSLMTWAILKRNEIQKLG  
SKLNFWLIQGSWWCGTIIILKFLTSKILGVSDHIRLSDLIAARILRYTDFDTLIYTCAP  
FDFMEKATPLRYTKTLLLPVVMVITCFIFKKTVRDISYVLATNIYLRKQLEHSELAFT  
LQLLVFTALAILIMRLKMFLTPHMCVMASLICSRLFGWLFRRVRFEKVIFGILTVMSIQ  
GYANLRNQWSIIIGEFNNLPQEELLQWIKYSTSDAVFAGAMPTMASIKLSTLHPIVNH  
PHYEDADLRARTKIVYSTYSRKSAREVRDKLLELHVNYVLEEAWCVVRTKPGCSMLEIWDV  
EDPSNAANPPLCSVLEEDARPYFTTVFQNSVYRVLKVN

>sp|Q5D0E6|DALD3\_HUMAN DALR anticodon-binding domain-containing protein 3 OS=Homo sapiens  
GN=DALRD3 PE=1 SV=2

MATRRLGVGETLGALNAALGPGPVWIKETRTRHLRSRDFLAPHRALQARFDDGQVPEHL  
LHALACLQGGPVAPVLRCAPTAGLSLQLQRSVAFERVLSSAVAAYATPASPASLGQRVLL  
HCPALRSSPCALRLSQLRTVLVADHLARALAHGVCVRLVPAVRDPHMLTFLQQLRVDWP  
AASERASSHTLRSHALEELTSANDGRTLSPGILGRLCLKELVEEQGRTAGYDPNLDNCLV  
TEDLLSVLAELQEALWHWPEDSHPLAGASDTGTGGCLVVHVVSCEEEFQQQKDLLWQK  
LVDKAPLRQKHLICGPVKVAGAPGTLMTAPEYYEFRHTQVCKASALKHGGDLAQDPAWTE  
IFGVLSVATIKFEMLSAPQSQLFLALADSSISTKGTKSGTFVMYNCARLATLFESYKCS  
MEQGLYPTFPVSSLDLSLLHDEGEWLLLFNSILPFPDLSRTAVLDCTAPGLHIAVRTE  
MICKFLVQLSMDFFSYNVRVHILGEPRPHLFGQMFVRLQLLRAREVLHTGLAMLGLPPL  
SHI

>sp|A8TX70|C06A5\_HUMAN Collagen alpha-5(VI) chain OS=Homo sapiens GN=COL6A5 PE=1 SV=1

MKILLIIFVLIITWETLADQSPGPGPVYADVFLVDSSDHLGPKSFPPVKTFINKMINSL  
PIEANKYRVALAQYSDEFHSEFHLSTFKGRSPMLNHLKKNFQFIGGSLQIGKALQEAHRT  
YFSAPINGRDRKQFPPIVLVLSAESEDEVEEASKALQKDGVKIISVGQKASEENLKAM  
ATSHFHFNLRTIRDLSTFSQNMFTQIKDVTYKKEGAVDADMVHFPI SCQKDSLADLVFL  
VDESLGTGGNLRHLQTFLFNITSSMDVKENCMRLGLMSYSNSAKTISFLKSSTTQSEFQQ  
QIKNLSIQVGKSNLTGAIDQMRDGFSESYGSRRAQGVPIAVLVTHRPSDDEVHDAALN  
LRLEDVNVFALSIIQGANNTQLEEIVSYPEQTISTLKSADLETYSTKFLKKLQNEIWSQ  
ISTYAEQRNLDTGCVDTKEADHFLIDGSSSIQEKQFEQIKRFMLEVTEMFSIGPDKVR  
VGVVQYSDDTEVEFYITDYSNDIDLRKAIFNIKQLTGTTYTGKALDYILQIIKNGMKDRM  
SKVPCYILVLTGDMSTDRVVEPAKRLRAEQITVHVGIGAANKIELQEIAGKEERSFGQ  
NFDALKSIKNEVVREICAEGKCEDMKADIMFLVDSSWSIGNENFRKMKIFMKNLLTKIQI  
GADKTQIGVVQFSDKTKEEFQLNRYFTQQEISDAIDRMSLINEGTLTGKALNFVGQYFTH  
SKGARLGAKKFLILITDGAQDDVRDPARILRGKDVTFISVGYNANRSQLEEISGDSSL  
VFHVENFDHLKALERKLIFRVCALHDCKRITLLDVVFVLDHSGSIIKKQYQDHMINLT IHL  
VKKADVGRDRVQFGALKYSQPNILFYLNNTYSNRSIIENLRKRRTDGGNTYTAKALKHA  
NALFTEEHGSRKQNVKQMLIVITDGESHDDQLNDTALELRNKGITIFAVGVGKANQKE  
LEGMAKNKNTIYVDNFDKLDVFTLVQERMCTEAPEVCHLQEADVIFLCDGSDRVSNSD  
FVTMTTFLSDLIDNFDIQSQRMKIGMAQFGSNYQSI IELKNSLTKTQWKTQIQNVSKSGG  
FPRIDFALKKVSNMFLHAGGRRNAGVPQTLVVITSGDPRYDVADAVKTLKDLGICVLVL  
GIGDVYKEHLLPITGNSEKIIITFQDFDKLKNVDVKRIIREICQSCGKTNCFMDIVVGFD  
ISTHVQGGPLFQGHPLQESYLPGLIEDISSIKGVSCGAGTEAQVSLAFKVNSDQGFPKF  
QIYQKAVFDSLLQVNVSGPHTLNAQFLRSLWDTFKDKSASRGQVLLIFSDGLQSESNI ML

ENQSDRLREAGLDALLVVS LNTTAHHEFSSFEFGKRFDYRTHLTIGMRELGKKLSQYLGN  
IAERTCCCTFCKCPGIPGPHGTRGLQAMKGSQGLKGSRGHRGEDGNPGVRGDTGPQGDKG  
IAGCPGAWGQKGLKGFSGPKGGHGDDGIDGLDGEEGCHGFPGIKGEKGDPSQGSPPSGRG  
APGQYGEKGFPDGPNGPQNNNIKGGKSGKEQGRQGRSGQKGVQGSPPSSRGSRGREGQR  
GLRGVSGEPGNPGPTGTLGAEGLQGPQGSQGNPGRKGEKGSQGGKGPQGSPLMGAKGST  
GRPGLLGKKGEPGLPGDLGPVGQTGQRGRQGD SGIPGYGQMGRKGVKGPRGFPGDAGQKG  
DIGNPGIPGGPGPKGFRGLALTVGLKGEEGSRGLPGPPGQGRGIKGMAGQPVYSQCDLIRF  
LREHSPCWKEKCPAYPTLVFALDNSYDVTEESFNKTRDIITSIVNDLNIRENNCPVGAR  
VAMVSYNSGTSYLIRWSDYNRKKQLLQQLS QIKYQDTTEPRDVG NAMRFVTRNVFKRTYA  
GANVRRVAVFFSNGQTASRSSIITATMEFSALDISPTVFAFDERVFLEAFGFDNTGTFQV  
IPVPPNGENQTLERLRRCALCYDKCFPNACIREAFLPEDSYMDVVFLIDNSRNIAKDEFK  
AVKALVSSVIDNFNIASDPLISDSGDRIALLSYSPWESSRRKMGTVKTEFDFITYDNQLL  
MKNHIQTSFQQLNGEATIGRALLWTTENLFPETPYLRKHKVI FVVSAGENYERKEFVKMM  
ALRAKCGYVIFVISLGSTRKDDMEELASYPLDQH LIQLGRIHKPDLNYIAKFLKPFLYS  
VRRGFNQYPPPMLEDACRLINLGGENIQNDGFQFVTELQEDFLGGNGFIGQELNSGRES  
FVKTEDNGSDYLVYLP SQMFEPQKLMINYEKDKSAEIASLTSGHENYGRKEEPDHTYEP  
GDVSLQEYYMDVAF LIDASQRVGSDEFKEVKAFITSVLDFHIAPTPLTSTLGDRVAVLS  
YSPPGYMPNTEECPVYLEFDLV TYNSIHQMKHHLQDSQQLNGDVFIGHALQWTIDNVFVG  
TPNLRNKVI FVISAGETNSLDKDVLRNVSLRAKCGYSIFVFSFGPKHNDKEEELASH  
PLDHHLVQLGRTHKPDWNYIIKFVKPFVHLIRRAIN KYPTEDMKATCVNMTSPNPENGGT  
ENTVLLLPGIYEIKTENGDLDFEFD SQAQHLLVLGNNHSSGSETATDLMQKLYLLFSTEK  
LAMKDKEKAHLEEISALVVDKQKEKEDKEMEATDI

>sp|Q9NYJ1|COA4\_HUMAN Cytochrome c oxidase assembly factor 4 homolog, mitochondrial  
OS=Homo sapiens GN=COA4 PE=1 SV=2

MSTSVPQGHTWTQRVKKDDEEDPLDQLISRSGCAASHFAVQECMAQH QDWRQCQPQVQA  
FKDCMSEQQARRQEELQRRQEQA GAHH

>sp|P04632|CPNS1\_HUMAN Calpain small subunit 1 OS=Homo sapiens GN=CAPNS1 PE=1 SV=1

MFLVNSFLKGGGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGGGGTAMR  
ILGGVISAISEAAAQYNPEPPPPRTHYSNIEANESEEVQRRLFAQLAGDDMEVSATEL  
MNILNKVVTRHPDLKTDGFGIDTCRSMVAVMDSDTTGKLGFE EFKYLWNNIKRWQAIYKQ  
FDTDRSGTICSELPGAFEAAGFHLNEHLYNMIIRRYSD ESGNMDFDNFISCLVRLDAMF  
RAFKSLDKDGTGQIQVNIQEWLQLTMYS

>sp|Q8N684|CPSF7\_HUMAN Cleavage and polyadenylation specificity factor subunit 7 OS=Homo  
sapiens GN=CPSF7 PE=1 SV=1

MSEGVDLIDIYADEEFNQDPEFNNTDQIDL YDDVL TATSQPSDDRSSSTEPPPPVRQEPS  
PKPNNKTPAILYTYSLRNRRAAVYVGSF SWWTTDQQLIQVIRSIGVYDVVELKFAENRA  
NGQSKGYAEVVVASENSVHKLLELLPGKVLNGEKVDVRPATRQNL SQFEAQARKRECVRV  
PRGGIPPAHRSRSDSDADGRATPSENLPSSARVDKPPSVLPYFNRPPSALPLMGLPPP  
PIPPPPPLSSSFVPPPPPGIHYQHLMPPPRLP PHLAVPPPGAIPPALHLNPAFFPPPN  
ATVGPPPD TYMKASAPYNNHGSRDSGPPSTVSEAEFEDIMKRNR AISSSAISKAVSGAS  
AGDYSDAIETLLTAIAVIKQSRVANDERCRLISS LKDCLHGIEAKSYSVGASGSSSRKR  
HRSRERSPSRSRESSRRHRDLLHNERHDDYFQERNREHERHRDRERDRHH

>sp|P50416|CPT1A\_HUMAN Carnitine O-palmitoyltransferase 1, liver isoform OS=Homo sapiens  
GN=CPT1A PE=1 SV=2

MAEAHQAVAFQFTVTPDGDIDRLSHEALRQIYLSGLHSWKKKFIRFKNGIITGVYPASPS  
SWLIVVVGVMTTYAKIDPSLGIIAKINRTLETANCMSSQTKNVVSGVLFGTGLWVALIV  
TMRYSLKVLLSYHGMFTEHGKMSRATKIWMGMVKIFSGRKPMLYSFQTSPLRPLVPAVK  
DTVNRYLQSVRPLMKEEDFKRMTALAQDFAVGLGPRLQWYLKLKSWWATNYVSDWWEYI  
YLRGRGPLMVNSNYAMDLLYILPTHIQAARAGNAIHAILLYRRKLDREEIKPIRLLGST  
IPLCSAQWERMFNSTRIPGEETDTIQHMRDSKHIVVYHRGRYFKVWLYHDGRLLKPREME  
QQMQRILDNTSEPQPGEARLAALTAGDRVPWARCRQAYFGRGKNKQSLDAVEKAAFFVTL  
DETEEGYRSEDPDTSMDSYAKSLLHGRCYDRWFDKSFTFVVFKNKMGLNAEHSWADAPI  
VAHLWEYVMSIDSLQLGYAEDGHCKGDINPNIPYPTLQWDIPGECQEVETSLNTANLL  
ANDVDFHSFPFVAFGKGIKKCRTSPDAFVQLALQLAHYKDMGKFCLTYEASMTRLFREG  
RTETVRSCTTESCDFVRAMVPAQTVEQRLKFLKLASEKHQHMYRLAMTGSGIDRHLFCL  
YVVS KYLAVESPFKEVLSEPWRLSTSQTQQQVELFDLENNPEYVSSGGGFGPVADDGY  
GVS YILVGENLINFHSSKFSCPETDSHRFGRHLKEAMTDIITLFGSSNSKK

>sp|Q5TA50|CPTP\_HUMAN Ceramide-1-phosphate transfer protein OS=Homo sapiens GN=CPTP PE=1  
SV=1

MDDSETGFNLKVVLVSFKQCLDEKEEVLLDPYIASWKGLVRFLNSLGTIFS FISKDVVSK  
LRIMERLRGGPQSEHYRSLQAMVAHEL SNRLVDLERRSHHPESGCRTVLR LHRALHWLQL  
FLEGLRTSPEDARTSALCADSYNASLAAYHPVWVRRAVTVAFCTLPTREVFLEAMNVGPP  
EQAVQMLGEALPFIQRVYNVSQKLYAEHSLDLDP

>sp|Q2M2W7|CQ058\_HUMAN UPF0450 protein C17orf58 OS=Homo sapiens GN=C17orf58 PE=3 SV=2  
MNRLY LTPDGFFFRVHMLALDSSSNKPCPEFKPGSRYIVMGHIYHKRRQLPTALLQVLR  
GRLRPGDGLLRSSSSVYKRFNRKREGQIQGAIHTQCI

>sp|A8MV24|CQ098\_HUMAN Uncharacterized protein C17orf98 OS=Homo sapiens GN=C17orf98 PE=4  
SV=1

MAYLSECLRLLEKGFILDGVAVSTAARAYGRSRPKLWSAIPPYNAQQDYHARSYFQSHVV  
PPLLRKTDQDHGGTGRDGIWIDYIHIFGQQRYLNRN WAGTGHS LQQVTGHDHYNADLK  
PIDGFNGRFGYRRNTPALRQSTS VFGEVTHFPLF

>sp|Q32NC0|CRO21\_HUMAN UPF0711 protein C18orf21 OS=Homo sapiens GN=C18orf21 PE=1 SV=1  
MRQKHYLEAAARGLHDSCPGQARYLLWAYTSSHDDKSTFEETCPYCFQLLVLDNSRVRLK  
PKARLTPKIQKLLNREARNYTL SFKEAKMVKKFKDSKSVLLITCKTCNRTVKHHGKSRSF  
VSTLKS NPATPTSKLSLKT PERRTANPNHDMMSGSGKSPASVFRTPTSGQSVSTCSSKNT  
SKTKKHFSQLKMLLSQNESQKIPKVD FRNFLSSLKGGLLK

>sp|Q68DL7|CRO63\_HUMAN Uncharacterized protein C18orf63 OS=Homo sapiens GN=C18orf63 PE=2  
SV=2

MNDSRQQSLFFITLPDLNKLCAVRIILSNKVADTEIRTIQMKMCRQLLFLHQDILTSPVS  
GILNQIWVMAIPFYKARKLNAYVEKYGAKMEAPQRVIPVILQNCLSYF MARLAPAWN R  
TGHL LIQGRDFLSQMGKQSAVVLNINVTETQVCLSI EACTIRLPAPELKEFEISQSI IKD  
FHANKHAVIERHSILSNWCYVLP SMKGQIINIFHAIPAACPFHSYGDFQRHWDALYGYK  
LPGDCGKIKIYCN IYFKMLGERTFTYPLSCIRSQPMQFFPRVDSEVV LKSFLSDLKSKLP  
HICGFP IKMTSKPCYYTQELTKPNIQE HKVKPPNLTTKKMLRASLTQATSRKPACAQSLL  
PCSAVVDHKVELSVSQPTSGIFSALHLQPESVQGRKKSLSIRAPQVHSEV LMPNRGNTQV  
QHTNLSSQSNITPKFVPVFKNRLLQMKNKNTSVLGSPKRKQHDVTQSKLFS LKTSMIQHDK  
LNLGPAIKNRYSSNIQMQAANNLNQENS RPLQEKNTESENMTKFPSSRGKSTVSLNKNK  
QLSNSAVFVVSNNNLGVVKS AVDFQMGKGENLTGKGITQILGKSHGSLKLKRQPHIFESD

GETEDPRLLQQQSENQAKEVGTSDHRLIVSKIAHRSKRKLCPESSKTSKKHHSDTVHYGQ  
SSSSKKQILDSDKSKLKSLIIHNA

>sp|Q70SY1|CR3L2\_HUMAN Cyclic AMP-responsive element-binding protein 3-like protein 2  
OS=Homo sapiens GN=CREB3L2 PE=1 SV=3

MEVLESGEQGVQLWDRKLSLSEPGDGEALMYHTHFSELLDEFSQNVLGQLLNDPFLSEK  
SVSMEVEPSPTSPAPLIQAHSYSLCEEPRASQSPFTHITTSDFSNDDEVESEKWYLSTDF  
PSTSIKTEPVTDEPPPGLVPSVTLTITAISTPLEKEEPPLEMNTGVDSSCQTIIPKIKLE  
PHEVDQFLNFSPEAPVDHLHLPTPPSSHGSDSEGLSPNRLHPFSLPQTHSPSRAAP  
RAPSSALSSSPLLTAPHKLQSGGPLVLTTEEKRTLIAEGYPIPTKLPLSKSEEKALKKIRR  
KIKNKISAQESRRKKKEYMDSLEKKVESCSTENLELRKKVEVLENTNRTLQQLQKLQTL  
VMGKVSRTCKLAGTGTGTCLMVVLCFAVAFGSFFQGYGPYPATKMLPSQHSLQEPYT  
ASVVRSRNLLIYEEHSPPEESSSPGSAGELGGWDRGSSLLRVSGLESRPDVLPHFIISN  
ETSLEKSVLLELQQHLVSAKLEGNETLKVVELDRLRVNTTF

>sp|Q68CJ9|CR3L3\_HUMAN Cyclic AMP-responsive element-binding protein 3-like protein 3  
OS=Homo sapiens GN=CREB3L3 PE=1 SV=2

MNTDLAAGKMASAACSMIDPIDSFELLDLFDRQDGI LRHVELGEGWGHVKDQQVLPNPDS  
DDFLSSILGSGDSLPSPLWSPEGSDSGISEDLPSPDQDTPPRSGPATSPAGCHPAQPGK  
GPCLSYHPGNSCSTTTPGPVIQVPEASVTIDLEMWSPGGRIKAEKPADPVDLSPRCNLTV  
KDLLSGSSGDLQQHHLGASYLLRPGAGHCQELVLTEDEKKLLAKEGITLPTQLPLTKYE  
ERVLLKIRRKIRNKSAQESRRKKKEYIDGLETRMSACTAQNQELQRKVLHLEKQNLSSL  
EQLKKLQAIIVVQSTSKSAQTGTCAVLLLSFALIILPSISPFGNKTESPGDFAPVRVFS  
RTLHNDAAASRAADAVPGSEAPGRPEADTTREESPGSPGADWGFQDTANLTNSTEELDN  
ATLVLRNATEGLGQVALLDWVAPGPSTGSGRAGLEAAGDEL

>sp|Q5IJ48|CRUM2\_HUMAN Protein crumbs homolog 2 OS=Homo sapiens GN=CRB2 PE=1 SV=2

MALARPGTDPQALASVLLLLWAPALSLLAGTVPSEPPSACASDPCAPGTECQATESGG  
YTCGMEPRGCATQPCHHGALCVPQGPDPGTGFRICYCVPGFQGPRLDIDECASRPCHHG  
ATCRNLADRYECHPLGYAGVTCMEVDECASAPCLHGGSCLDGVGSFRCVCAPGYGGTR  
CQLDLDECQSQPCAHGGTCHDLVNGFRCDCA GTGYEGTHCEREVLECASAPCEHNASCLE  
GLGSFRCLCWPGYSGELCEVDEDECASSPCQHGGRCQLRSDPALYGGVQAAPGAFSFRH  
AAGFLCHCPPGFEGADCGVEVDECASRPCNLGGHCQDLNPGFQCHCPDGYAGPTCEEDVD  
ECLSDPCLHGGTCSDTVAGYICRPETWGGRDCSVQLTGCQGHCTPLAATCPIIFESGVH  
SYVCHCPPGTHGPFQGNNTTFSVMAGSPIQASVPAGGPLGLALRFRTTLPAGTLATRNDR  
KESLELALVAATLQATLWSYSTTVLVLRPLDALNDGHHQVEVVLHLATLELRLWHEGC  
PARLCVASGPVALASTASATPLPAGISSAQLGDATFAGCLQDVRVDGHL LLPEDLGENVL  
LGCERREQCRPLPCVHGGSCVDLWTHFRCDCARPHRGPTCADEIPAATFGLGGAPSSASF  
LLQELPGPNLTVSFLRTRESAGLLLQFANDSAAGLTVFLSEGRIRAEVPGSPAVVLPGR  
WDDGLRHLVMLSFGPDQLQDLGQHVHVGGRLAADSQPWGGPFRGCLQDLRLDGCHLPFF  
PLPLDNSSQPSSELGGRQSWNLTAGCVSEDMCSPDPCFNNGTCLVTW NDFHCTCPANFTGP  
TCAQQLWCPGQPCLPATCEEVDPDGFVCVAEATFREGPPAAFSGHNASGRLLGGLSLAF  
RTRDSEAWLLRAAGALEGVWLAVRNGSLAGGVRGGHGLPGAVLP IPGPRVADGAWHRVR  
LAMERPAATTSRWLLWLDGAATPVALRGLASDLGFLQGP GAVRILLAENFTGCLGRVALG  
GLPLPLARPRPGAAPGAREHFASWPGPAPILGCRGAPVCAPSPCLHDGACRDLFDAFAC  
ACGPGWEGPRCEAHVDPCHSAPCARGRCHTHPDGRFECRCPPGFGGPRCRLPVPSKECSL  
NVTCLDGSPCEGGSPAANCSCLEGLAGQRCQVPTLPCEANPCLNGGTCRAAGGVSEICN

ARFSGQFCEVAKGLPLPLPFPLLEVAVPAACACLLLLLLGLLSGILAARKRRQSEGTYSP  
SQQEVAGARLEMDSVLKVPPEERLI

>sp|043186|CRX\_HUMAN Cone-rod homeobox protein OS=Homo sapiens GN=CRX PE=1 SV=1

MMAYMNPGRAPHYSNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAK  
TQYPDVIYAREEVALKINLPESRVQVWFKNRAKCRQQRQQKQQQQPPGGQAKARPAKRK  
AGTSRPPSTDVCPDPLGISDSYSPPLPGPSGSPTTAVATVSIWSPASESPLPEAQRAGLV  
ASGPSLTSAFYAMYAPASAFCSPPSAYGSPSSYFSGLDPYLSPMVPQLGGPALSPLSGP  
SVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKQSAWKFQIL

>sp|Q9UFG5|CS025\_HUMAN UPF0449 protein C19orf25 OS=Homo sapiens GN=C19orf25 PE=1 SV=2

MGSKAKKRVLLPTRPAPPTVEQILEDVRGAPAEDEVFTILAPEDPPVPFRMMEDAEAPGE  
QLYQQSRAYVAANQRLQQAGNVLRQRCELLQRAGEDLEREVAQMKQAALPAAEAASSG

>sp|Q9BSF4|CS052\_HUMAN Uncharacterized protein C19orf52 OS=Homo sapiens GN=C19orf52 PE=1  
SV=2

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRA  
AVYVGLLGAAACFTLAPSEGAFFEEALLEASGTLLLLAPATRNRESEAFVQRLWLGRG  
RLRYVNLGLCSLVYEAPFDAQASLYQARCRYLQPRWTFPGRVLDVGFVGRWWVLGAWMR  
DCDINDEFLHPLAHLRVVGPQQHSETNERLFDEKYKPVVLTDDQVDQALWEEQVLQKE  
KKDRLALSQAHSVLVQAEAPR

>sp|Q0VDD7|CS057\_HUMAN Uncharacterized protein C19orf57 OS=Homo sapiens GN=C19orf57 PE=1  
SV=2

MTKRKKLRTSGEGLCPPKPLKNPRLGDFYGDQSSMLGCLHHPEEPEGKLGVPVSTQQHG  
EEP GKAVSSSPDEETGSPCRLLRQPEKEPAPLPSPQNSFGRFVPQFAKSRTVTRKEEMK  
DEDRGSGAFSLETIAESSAQSPGCQLLVETLGVPLQEATELGDPQTQADSARPEQSSQSPV  
QAVPGSGDSQPDDPPDRGTGLSASQASQDHLSEQGADDSKPEPTRVPGDGGQKEHLP  
DSEGEKPDGAPQEGGAQRTAGAGLPGGPQEEGDGVPCPTASAPTS GPAPGLGPASWCLE  
PGSVAQSGSPDPQQTSPRMGREGEGTHSSSLGCSSLMGVVIADLSTDPTELEERALEVAGPD  
GQASAI SPASPRRKAADGGHRRALPGCTSLTGETTGESGEAGQDGKPPGDVLVGPTASLA  
LAPGSGESMMGAGDSGHASPDTPCVNQKQEPGPAQEEAELGGQNLERDLEGFRVSPQAS  
VVLEHREIADDPLQEPGAQQGIPDTTSELAGQRDHLPHSADQGTWADSLAVELDFLLDSQ  
IQDALDASDFEAPPEQLFPGSNKPGPCWPGPSSHANGDPVAVAKAQPRTFVGIQASEASR  
MEDATNVVRGLLIVELSNLNLIMGTHRDLEAFKRLNRYRKTGLGKAPLPYPSKGPNGNIPR  
GDPPWREL

>sp|Q96EN9|CS060\_HUMAN Uncharacterized protein C19orf60 OS=Homo sapiens GN=C19orf60 PE=1  
SV=1

MITETAAEPTVPAVPAEEATEARGREEPAWPWKDAPIRTIVQRIHQLQAERAQGFRRLE  
EWLAPVQGLRAWGRGLRVPTCRRGHRQYLRSGPDYDFARYRSTVHGVTQAFAAASREVL  
VEAELGGPRRQPLLAGHVRSLEQLEQTRLGTVALLQLMETPELAGQEDAVRMQQLKMKVI  
KTMEAISEVLQDLRFDAESAE

>sp|A6NJJ6|CS067\_HUMAN UPF0575 protein C19orf67 OS=Homo sapiens GN=C19orf67 PE=3 SV=3

MATEQWFEGSLPLDPGETPPDALEPGTPPCGDPSPRSTPPGRPGNPSEDPEDAEGRLAE  
ARASTSSPKPLVPRPGAPPRLSLDTLFSPI TQQLRYLLKKADDFQSYLLYSRDQVQKEQ  
LAKAMPTFLQMCPEYFLYLEAAARSIPPIYGPLQELVRKGLLEISQQLTLRLEQLVLMYA  
SFGFVDLEEMNPLSISCFFCGRFSISLSHEVSIFRYCAPTAYTASRFPRYLYKKMRWHLE  
ATPEAPGRGQDSLVDYYFLCYRDTWEDTGQSPANSCPQIQKLWSIGRWVPLGPAEDDLYS



WILCPQPLGDYQQLLTIGFEEPTPTLATDLLVQILTGGAGQARPPSAAGPAGWAAQGS

>sp|Q86XI8|CS068\_HUMAN Uncharacterized protein C19orf68 OS=Homo sapiens GN=C19orf68 PE=1 SV=2

MERPEPPPGTAAGQEEQELRERAFSSWAEFSRFFDAWCQQLALFFVKSSMHLARCRWAS  
APPLYTLIDVLKYSYVRLVCKDVRAPSRPAVGPPQPGCPAFIIVKLSPLRDLVVTECQL  
THSHPACPLEFAYYFRPGHLLANACLPVRTTNKISKQFVAPADVRRLLSYCKGRDHGVLD  
ALHVLEGLFRTDPEAKVKLVFVEDQAVVETVFFLTSRTRALLRRFPRMLLVDRLPGLQGA  
LDLLAVLCVDGSGRARQAACCVARPGTPSLRLRFALASLLQSAPDVKGRVRCLTAGPEVAA  
QLPAVRQLLPCARVQICRAQGLETLFSKAQELGGAGREDPGLWSRLCRLAGASSPAAYDE  
ALAEHHAHGPAAFVDYFERNWEPRRDMWVRFRAFEAARDLDACALVRGHRRLRLRLSPS  
RGVAQCLRDLVAMQWADAAGEAVPEGPDGGGPWLEDEPGRGAQGENERVRGLETGDWGA  
PKEGSIWRGAQMEKEWARALETRDWGGAQFEQEGKRALQIRDWRGGRLENQKPRGLEGGV  
LRGSKLEKGHLRGPEIRDWRGPQLEGEKDWGLEGYVWRGSQLEDQALRGLEGYTWRVAQL  
EDRRSTDLRGTFDYERGGKGESTEDR

>sp|A6NCJ1|CS071\_HUMAN Uncharacterized protein C19orf71 OS=Homo sapiens GN=C19orf71 PE=4 SV=2

MQTLRQEAAARPCIPSGTLEASFPAPLYSDDYLSLEGSRWPPAIRQATRWKYTPMGRDAAG  
QLWYTGLTNSDAWEAWYNLPRAPASPFREAYNRWHSCYQHRECSMPSAYTQHLRETAWHD  
PIVPAQYQAPSTRWGSALWKDRPIRGKEYVLNRNRYGVEPLWRASDYVPSLSAPQRPPGT  
TQNYREWVLEPYCPSTCQRSPPSLTPTPR

>sp|Q92905|CSN5\_HUMAN COP9 signalosome complex subunit 5 OS=Homo sapiens GN=COPS5 PE=1 SV=4

MAASGSGMAQKTWELANNMQEAQSIDEIYKYDKKQQEILAAKPWTKDHHYFKYCKISAL  
ALLKVMVMHARSGGNLEVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAY  
IENAKQVGRLENAIGWYHSHPGYGCWLSGIDVSTQMLNQFQEPFVAVVIDPTRTISAGK  
VNLGAFRTYPKGYPDEGPSEYQTIPLNKIEDFGVHCKQYVALEVSYFKSSLDKLEL  
LWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKL  
AKATRDSCKTTIEAIHGLMSQVIKDKLFNQINIS

>sp|Q9H9Q2|CSN7B\_HUMAN COP9 signalosome complex subunit 7b OS=Homo sapiens GN=COPS7B PE=1 SV=1

MAGEQKPSSNLEQFILLAKGTSGSALTALISQVLEAPGVYVFGELLELANVQELAEGAN  
AAYLQLLNLFAYGTPDYIANKESLPELSTAQQNKLKHLTIVSLASRMKCIPIYVLLKDL  
EMRNLRELEDLIIIEAVYTDIIQGKLDQRNQLLEVDFCIGRDIRKKDINNIVKTLHEWCDG  
CEAVLLGIEQQVLRANQYKENHNRTQQQVEAEVTNIKKTLKATASSSAQEMEQQLAEREC  
PPHAEQRQPTKKMSKVGLVSSRH

>sp|PODMV2|CT459\_HUMAN Cancer/testis antigen family 45 member A9 OS=Homo sapiens GN=CT45A9 PE=3 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSLIIAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTGFSKDRMMQKPGSNAPVGGNVTSSFSGDDLECRETAFSPKSQQ  
EINADIKRQLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFFESIIEKAARCMRRDFVKH  
LKKKLKRFI

>sp|Q6XXX2|CU024\_HUMAN Putative uncharacterized protein encoded by LINC00114 OS=Homo sapiens GN=LINC00114 PE=5 SV=1

MQTTWQPGCSYPTSWLSSQESFSKMRTGWRGAIPLRWRNRARNREKPHSPRAVSSPATHS

LPPSNPCRLTPTLSSARPREGSCPSKSCPGGNWSNTALSAELMWAEGRFSGGCLPVYMR  
QNINPGCQEWEGEERSRWL

>sp|A6NIU2|CU037\_HUMAN Putative uncharacterized protein encoded by LINC01549 OS=Homo sapiens GN=LINC01549 PE=5 SV=1

MERAQCLRKGILSFERSLEQSRSLILSPRLEYSGAITAHCSLDLLDSTNPPASAFWVVETT  
DTEDEREKKREITE

>sp|A6NM66|CU054\_HUMAN Uncharacterized protein encoded by LINC01548 OS=Homo sapiens GN=LINC01548 PE=4 SV=1

MLAKGAEGRSGGPRPAITLPGSLHFTCDLKTSPYCLTRAELMEHLPLRVAVHSMSPCHR  
SCFCGELKRGHPWNTQVSSFPSSTTSLSHSCTTSHLDCSQQVESGSK

>sp|Q8N2A0|CX062\_HUMAN Putative uncharacterized protein encoded by LINC00269 OS=Homo sapiens GN=LINC00269 PE=5 SV=1

MPKSLEIYKGCNWEESGLLGSCFSQGLALLPRVEWSGAILAHCIVDLPSSSDPPTSASH  
FSGLQAHTTTARWSLTLLPRLECSGTISAHYNLRLLGSSNSPVASQVAETTEACHHTRL  
IFVFSVETGFHHVGQAGLKLLTSGDPPASASQSAGITGVSHSARPKSCFLQLLG

>sp|Q5JRM2|CX066\_HUMAN Uncharacterized protein CXorf66 OS=Homo sapiens GN=CXorf66 PE=2 SV=1

MNLVICVLLLSIWKNNCMTTNQTNGSSTTGDKPVESMQTKLNYLRRNLLILVGIIIMVFV  
FICFCYLHYNCLSDDASKAGMVKKKGIAAKSSKTSFSEAKTASQCSPETQPMLSTADKSS  
DSSSPERASAQSSTEKLIRPSSLQKPSIPNSAGKLTRPSYPKRSSKSSCSKKLSKSSHLE  
KAHKKGSLEKLCKLDYACKLASSDKPVRPPQLFKPLYSSHPQNEISPSKPFQPQELAKPP  
KHFNPKRVSVLGRAALLSNSELAETCQPYKKKHLVAKTYRPLVNDISEAKEKNTQNLHVS  
SKVKSSSRFRKLDNRNNAYGDHVNDSDTMKYSEVDSKVIITCDRGINQVTSEVTLN  
D

>sp|P14854|CX6B1\_HUMAN Cytochrome c oxidase subunit 6B1 OS=Homo sapiens GN=COX6B1 PE=1 SV=2

MAEDMETKIKNYKTAPFDSRFPNQNRNCWQNYLDFHRCQKAMTAKGGDISVCEWYQRV  
YQSLCPTSWWTDWDEQRAEGTFPGKI

>sp|P29033|CXB2\_HUMAN Gap junction beta-2 protein OS=Homo sapiens GN=GJB2 PE=1 SV=3

MDWGTLQTLGGVKNHSTSIGKIWLTVLFI FRIMILVAAKEVWGDEQADFVCNTLQPGC  
KNVCYDHYFPI SHIRLWALQLIFVSTPALLVAMHVAYRRHEKKRKF IKGEIKSEFKDIEE  
IKTKQVRIEGLWWTYTSSIFFRVIFEAAFMYVFYVMYDGFMSQRLVKCNAWPCPNTVDC  
FVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKPV

>sp|Q6PEY0|CXB7\_HUMAN Gap junction beta-7 protein OS=Homo sapiens GN=GJB7 PE=2 SV=1

MSWMFLRDLLSGVNKYSTGTGWIWLVVVFVFRLLVYMVA AEHVWKDEQKEFECNSRQPGC  
KNVCFDDFFPISQVRLWALQLIMVSTPSLLVVLHVAYHEGREKRRHKLYVSPGTMGGGL  
WYAYLISLIVKTGFEIGFLVLFYKLYDGFSPYLIKCDLKPCPNTVDCFISKPTKTIIFI  
LFLVITSCLCIVLNFIELSFLVLKCFIKCCLQKYLKKPQVLSV

>sp|000574|CXCR6\_HUMAN C-X-C chemokine receptor type 6 OS=Homo sapiens GN=CXCR6 PE=2 SV=1

MAEHDYHEDYGFSSFNDSQEEHQDFLQFSKVFLPCMYLVFVCGLVGNSLVLVISIFYH  
KLQSLTDVFLVNLPLADLVFVCTLPFWAYAGIHEWVFGQVMCKSLLGIYTINFYTSMIL  
TCITVDRFIVVVKATKAYNQAKRMTWGKVTSLLIWVISLLVSLPQIIYGNVFNLDKLI  
CYHDEAISTVVLATQMTLGFPLPLTMIVCYSV IKTLLHAGGFQKHRSLKIIFLVMAVF  
LLTQMPFNLMKFIRSTHWEYYAMTSFHYTIMVTEAIAYLRACLNPVLYAFVSLKFRKNFW

KLVKDIGCLPYLVSHQWKSSDNSKTFSSASHNVEATSMFQL

>sp|Q9UKL4|CXD2\_HUMAN Gap junction delta-2 protein OS=Homo sapiens GN=GJD2 PE=1 SV=1  
MGEWTLERLLEAAVQQHSTMIGRILLTVVVI FRILIVAIVGETVYDDEQTMFVCNTLQP  
GCNQACYDRAFPISHIRYWFQIIMVCTPSLCFITYSVHQSAQRERRYSTVFLALDRDP  
PESIGGPGGTGGGSGGGKREDKKLQNAIVNGVLQNTENTSKETEPDCLEVKELTPHPSG  
LRTASKSKLRRQEGISRFYIIQVVF RNALEIGFLVGQYFLYGF SVPGLYECNRYPCIKEV  
ECYVSRPTEKTVFLVFMFAVSGICVVLNLAE LNHLGWRKIKLAVRGAQAKRKS IYEIRNK  
DLPRVSVPNFGRTQSSDSAYV

>sp|Q8N144|CXD3\_HUMAN Gap junction delta-3 protein OS=Homo sapiens GN=GJD3 PE=1 SV=1  
MGEWAFLGSLDDAVQLQSPLVGRLWL VVMLIFRILVLATVGGAVFEDEQE EFVCNTLQPG  
CRQTCYDRAFPVSHYRFWLFHILL SAPPVLFVVYSMHRAGKEAGGAEAAAQCAPGLPEA  
QCAPCALRARRARRCYLLSVALRL LAELTFLGGQALLYGFRVAPHFACAGPPCPTVDCF  
VSRPTEKTVFVLFYFAVGLLSALLSVAELGHLLWKGRPRAGERDNRCNRAHEEAQKLLPP  
PPPPPPPPALPSRRPGPEPCAPPAYAH PAPASLRECGSGRGKASPATGRRDLAI

>sp|O95715|CXL14\_HUMAN C-X-C motif chemokine 14 OS=Homo sapiens GN=CXCL14 PE=1 SV=2  
MSLLPRRAPPVSMRLAAALLLLLLALYTARVDGSKCKSRKGPKIRYSDVKKLEMKPKY  
PHCEEKMVIITTKSVSRYRGQEHCLHPKLQSTKRFIKWYNAWNEKRRVYEE

>sp|P00167|CYB5\_HUMAN Cytochrome b5 OS=Homo sapiens GN=CYB5A PE=1 SV=2  
MAEQSDEAVKYYTLEEIQKHNSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDAT  
ENFEDVGHSTDAREMSKTFIIGELHPDDRPKLNKPPETLITIDSSSSWWTNWVIPAISA  
VAVALMYRLYMAED

>sp|Q99627|CSN8\_HUMAN COP9 signalosome complex subunit 8 OS=Homo sapiens GN=COPS8 PE=1 SV=1  
MPVAVMAESAFSFKLLDQCENQELEAPGGIATPPVYQLLALYLLHNDMNNARYLWKRI  
PPAIKSANSELGGIWSVGQRIWQRDFPGIYTTINAHQWSETVQPI MEALRDATRRRAFAL  
VSQAYTSIIADDDFAAFVGLPVEEAVKGILEQGWQADSTTRMVLPRKPVAGALDVSFNKFI  
PLSEPAVPVPIPNQQQLARLTDYVAFLEN

>sp|P13611|CSPG2\_HUMAN Versican core protein OS=Homo sapiens GN=VCAN PE=1 SV=3  
MFINIKSILWMCSTLIVTHALHKVKVGKSPVVRGSLSGKVS L PCHFSTMPTLPPSYNTSE  
FLRIKWSKIEVDKNGKDLKETT VLV AQNGNIKIGQDYKGRVSVPTHPEAVGDASLT VVKL  
LASDAGLYRCDVMYGIEDTQDTVSLTVDGVVFHYRAATSRYTLNF EAAQKACLDVGAVIA  
TPEQLFAAYEDGFEQCDAGWLADQTVRYPIRAPRVGCYDKMGKAGVRTYGF RSPQETYD  
VYCYVDHLDGDV FHLTVPSKFTFE EAAKECENQDARLATVGELQA AWRNGFDQCDYGWLS  
DASVRHPVTVARAQCGGGLLVRTLYRFENQTGFPPDSRFDAYCFKPK EATTIDLSILA  
ETASPSLSKEPQMVS DRTTPIIPLVDELPIPT EFPVGNIVSFEQKATVQPQA ITDSL A  
TKLP TPTGSTKKP WMD DYS PASG PLGKL DISEIKEEVLQSTTG VSHYATDSWDGVVED  
KQTQESVTQIEQIEVGPLVTSMEILKHIPSKEFPVTETPLVTARMILESKTEKKMVSTVS  
ELVTTGHYGFTLGEEDDEDRTLTVGSDESTLIFDQIPEVITVSKTSED TIH THLEDLESV  
SASTTVSPLIMPDNNGSSMDDWEERQTSGRITEEFLGKYLSTTPFPSQHRTEIELFPYSG  
DKILVEGISTVIYPSLQTEMTHRRERTETLIPEMRTDTYTDEIQEEITKSPFMGKTEEEV  
FSGMKLSTSLSEPIHVTESSVEMTKSFDFTLITKLSAEPTEVRDMEEDFTATPGTTKYD  
ENITTVLLAHGTL SVEAATVSKWSWDEDNTTSKPLESTEPSASSKLPPALLTTVGMNGKD  
KDIPSTFEDGADEFTLIPDSTQKQLEEVTDEDIAAHGKFTIRFQPTTSTGIAEKSTLRDS  
TTEEKVPPITSTEGQVYATMEGSALGEVEDVDLSKPVSTVPQFAHTSEVEGLAFVSY SST

QEPTTYVDSSHTIPLSVIPKTDWGLVPSVPSSEDEVLGEP SQDILVIDQTRLEATISPET  
MRTTKITEGTTQEEFPWKEQTAEKPV PALSS TAWTPKEAVTPLDEQEGDGSAYTVSEDEL  
LTGSERVPVLETPVGKIDHSVSYPPGAVTEHKVKTDEVVTLTPRIGPKVSLSPGPEQKY  
ETEGSSTTGFTSSLSPFSTHITQLMEETTTEKTSLEDIDLGSGLFEKPKATELIEFSTIK  
VTVP SDITTA FSSVDRLHTTS AFKPSSAITKKPPLIDREPGEETSDMVIIGESTSHVPP  
TTLEDIVAKETETDIDREYFTTSSPPATQPTRPPTVEDKEAFGPQALSTPQPPASTKFHP  
DINVYIIIEVRENKTRGRMSDLSVIGHPIDSESKEDPCSEETDPVHDLMAEILPEFPDIIIE  
IDLHSEENEEEEECANATDVTTTPSVQYINGKHLVTTVPKDPEAAEARRGQFESVAPS  
QNFSDSSSESDTHPFVIAKTELSTAVQPNESTETTESLEV TWKPETYPETSEHFSGGEPDV  
FPTVPFH EEFESGTAKKGAESVTERDTEVGHQAHEHTEPVSLFPEESSGEIAIDQESQKI  
AFARATEVTFGEEVEKSTSVTYTPTIVPSSASAYVSEEEAVTLIGNWPDDLSTKESWV  
EATPRQVVELSGSSSIPITEGSGEAEEDETMFTMVTDL SQRNTTDTLITLDTSR II TES  
FFEVPATTIYPVSEQPSAKVVPTK FVSETDTSEWISSTTVEEKKRKEEEGTTGTASTFEV  
YSSTQRSDQLILPFELESPNVATSSDSGTRKSFMSLTTP TQSEREMTDSTPVFTETNTLE  
NLGAQTTEHSSIHQPGVQEGLTTLPRSPASVFMEQSGEAAADPETTTVSSFSLNVEYAI  
QAEKEVAGT LSPHVETTFTSTEPTGLVLSTVMDRVVAENITQTSREIVISERLGEPNYGAE  
IRGFSTGFPLEEDFSGDFREYSTVSHPIAKEETVMMEGSGDAAFRDTQTSPSTVPTSVHI  
SHISDSEGPSSTMVSTSAFPWEEFTSSAEGSGEQLVTVSSSVVPLPSAVQKFSGTASSI  
ID EGLGEVGTVNEIDRRSTILPTAEVEGTKAPVEKEEVK VSGTVSTNFPQTIEPAKLWSR  
QEVNPVRQEIESETTSEEQIQEEKSFESPQNSPATEQTIFDSQFTETELKTTDYSVLTT  
KKTYSDDKEMKEEDTSLVN MSTPDPDANGLESYTTLPEATEKSHFFLATALVTESIPA EH  
VVTDSPIKKEESTKHFPKGM RPTIQESDTELLFSGLGSGEEV LPTLP TESVNFTEVEQIN  
NTLYPHTSQVESTSSDKIEDFNRMENVAKEVGPLVSQTDIFEGSGSVTSTLIEILSDTG  
AEGPTVAPLPFSTDIGH PQNQTVRWAE EIQTSRPQTITEQDSNKSSTA EINETTSSSTD  
FLARAYGFEMAKEFVTSAPKPSDLYYEPSGEGSGEVDIVDSFHTSATTQATRQESSTFV  
SDGSLEKHPEVPSAKAVTADGFPTVSVMLPLHSEQNKSSPDPTSTLSNTVSYERSTDGSF  
QDRFREFEDSTLKP NRKKPTENIIIDLDKEDKDLITITESTILEILPELTS DKNTIID I  
DHTKPVYEDILGMQTDIDTEVPSEPHDSNDESNDDSTQVQEIYEA AVNLSL TEETFEGSA  
DVLASYTQATHDESM TYEDRSQLDHMGFHTTGIPAPSTETELDVLLPTATSLPIPRKSA  
TVIPEIEG IKA EAKALDDMFESSTLSDGQAIADQSEI IPTLGQFERTQEEYEDKKHAGPS  
FQPEFSSGAEALVDHTPYLSIATTHLMDQSVTEVPDVMEGSNPPYYTDTLAVSTFAKL  
SSQTPSSPLTIYSGSEASGHT EIPQPSALPGIDVGSSVMSPQDSFKEIHVNI EATFKPSS  
EEYLHITEPPSLSPDTKLEPSEDDGKPELLEEMEASPTELI AVEGTEILQDFQNKTDGQV  
SGEAIKMFPTIKTPEAGTVITTAD EIELEGATQWPHSTSASATYGEAGVVPWLSPQTSE  
RPTLSSSPEINPETQAALIRGQDSTIAASEQQVAARILDSNDQATVNPVEFNTEVATPPF  
SLETSNETDFLIGINEESVEGTAIYLPGPDRCKMNPCLNGGTCYPTETS YVCTCVP GYS  
GDQCELDFDECHSNPCRNGATCVDGFNTFRCLCLPSYVGALCEQDTETCDY GWHKFQGC  
YKYFAHRRTWDAARECRLQGAHLTSILSHEEQMFVNRVGH DYQWIGLNDKMF EHD FRWT  
DGSTLQYENWRPNQPSDFSAGEDCVVI IWHENGQWNDVPCNYHLTYTCKKGTVACGQPP  
VVENAKTFGKMKPRYEINSLIRYHCKDGF IQRHLPTIRCLGNRWAIPKITCMNPSAYQR  
TYSMKYFKNSSSAKDNSINTSKHDHRWSRRWQESRR

>sp|Q9H4G1|CST9L\_HUMAN Cystatin-9-like OS=Homo sapiens GN=CST9L PE=1 SV=1  
MLGLPWKGGLSWALLLLLLGSQILLIYAWHFHEQRDCDEHNVMARYLPATVEFAVHTFNQ  
QSKDYAYRLGHILNSWKEQVESKTVFSMELLLGRTRCGKFEDDIDNCHFQESTELNNTF

TCFFTISTRPWMTQFSLLNKTCLGFH

>sp|Q9H0L4|CSTFT\_HUMAN Cleavage stimulation factor subunit 2 tau variant OS=Homo sapiens  
GN=CSTF2T PE=1 SV=1

MSSLAVRDPAMDRSLRSVFVGNIPYEATEEQLKDIFSEVGSVVSFRLVYDRETGKPKGYG  
FCEYQDQETALSAMRNLANGREFSGRALRVDNAASEKNKEELKSLGPAAPIIDSPYGDPIID  
PEDAPESITRAVASLPPEQMFELMKQMKLCVQNSHQEARNMLLQNPQLAYALLQAQVVMR  
IMDPEIALKILHRKIHVTPILIPGKSQSVSVSGPGPGPGGLCPGPNVLLNQNPAPQPQ  
HLARRPVKDIPPLMQTPIQGGIPAPGPIAAVPGAGPGSLTPGGAMQPQLGMPGVGPVPL  
ERGQVQMSDPRAPIPRGVPTPGGLPPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQ  
GPPMHASGHDTRGPSSHEMRGGPLGDPRLDIGEPGPMIDQRGLPMDGRGGRDSRAMET  
RAMETEVLTRVMERRGMETCAMETRGMEARGMDARGLEMGPVPSSRGPMTGGIQQGPGP  
INIGAGPPPQGRPVPGISGVGNPGAGMQGTGIQGTGMQAGIQQGGMQGAGIQQVSIQG  
GGIQQGGIQQASKQGGSQSSFSFGQSQVTPQDQEKAAALIMQVLQLTADQIAMLPPEQRQ  
SILILKEQIQKSTGAS

>sp|Q9BR46|CT078\_HUMAN Putative uncharacterized protein C20orf78 OS=Homo sapiens  
GN=C20orf78 PE=4 SV=1

MFQVFKPHAGEDYKYPRETETIWSHPYVVEGSHKSPLESLSLHGCLAAMAPSITSEDSS  
PSQRDKKDLSDLTLLTRKKRSQLHWSHWQGLNHMSIRIHTPEQGSPSLGQNSWSGNRKE  
KGVAQRQVPTTGTHSFFHCTSEGNKEKPHHF

>sp|Q9NUD7|CT096\_HUMAN Uncharacterized protein C20orf96 OS=Homo sapiens GN=C20orf96 PE=2  
SV=2

MAHVLQKPKHSGTHSIVQEFQVPDYVPWQQSKQETKPTLPPVQQANSLHTSKMKTLTRV  
QPVFHFKPTTVTSCQPKNPRELHRRRKLDPGKMHAKIWLMTSLRSGRAALRELSREN  
FLSKLNRELIETIQEMENSTTLHVRALLQQQDTLATIIDILEYSNKKRLQQLKSELQWE  
EKKKCKMSYLEQQAEQLNAKIEKTQEEVNFLSTYMDHEYSIKSVQISTLMRQLQQVKDSQ  
QDEDDLGEEMRRKVLLESLSDKIQKKKKKILSSVVAETQRPYEEALLQKMWESQDFLCKMQ  
RFREIIDQFEENMPVLRAEVEELQAQTREPREVIFEDVLLRRPKCTPMDVILNIPVEEP  
LPF

>sp|Q9H4R4|CT191\_HUMAN Putative nuclear receptor corepressor 1-like protein NCOR1P1  
OS=Homo sapiens GN=NCOR1P1 PE=5 SV=1

MSSSGYPNPQGAFSTEQSHYPPHSVKYTFPSTHHQQDPAFGGKHEAPSSPILGQPCGDDQ  
NASPSKLSKEELIECMDRVDREIAKVEQQILKLKKKQVKVFV

>sp|Q8IYI0|CT196\_HUMAN Uncharacterized protein C20orf196 OS=Homo sapiens GN=C20orf196  
PE=2 SV=1

MAARDATSGSLSEESSALDLPACDIRDYVLQGPSQEANSEAFSSLEFHSFPYSSDVDPD  
TSNLNIEQNNSWTAENFWLDPVKGQSEKEEDDGLRKSLDRFYEMFGHPQPGSANSLSAS  
VCKCLSQKITQLRGQESQKIALRSFQMARVIFNRDGC SVLQRHSRDTHFYPLEEGSTSLD  
DEKPNPGLSKDITHFLLQQNVMKDL

>sp|Q8NBC4|CT203\_HUMAN Uncharacterized protein C20orf203 OS=Homo sapiens GN=C20orf203  
PE=2 SV=2

MFPRPVLNSRAQAILLPQPPNMLDHRQWPPRLASFPTKTGMLSRATSVLAGLTAHLWDL  
GGGAGRRTSKAQRVHPQPSHQRPQPPQHPGPYQERIWWGGEGWGEVGLRLSKVGRRDR  
EVGRGLRAPAGRGRAMGMPRMGTVGDFGQALSSLAWTSTCFQDFCLPSLPGKLPAPLIS  
KQQFLSNSSRSLFN

>sp|Q2NKJ3|CTC1\_HUMAN CST complex subunit CTC1 OS=Homo sapiens GN=CTC1 PE=1 SV=2

MAAGRAQVPSSQAWLEDAQVFIQKTLCPAVKEPNVQLTPLVIDCVKTVWLSQGRNQGST  
LPLSYSFVSVQDLKTHQRLPCCSHLSWSSSAYQAWAQEAGPNGNPLPREQLLLGLTDL  
SADLEQECRNGSLYVRDNTGVLSCELIDLDLSWLGHFLFPRWSYLPARWNSSGEGHLE  
LWDAPVPVFPLTISPGPVTPIPVLYPESASCLLRNRKLRGVQRNLAGSLVRLSALVKSK  
QKAYFILSLGRSHPAVTHVSIIVQVPAQLVWHRALRPGTAYVLTSLRVSKIRGQRQHVWM  
TSQSSRLLLLKPECVQELELELEGLPLEADPKPLMPNSSEDKDPESLVRYSRLLSYSG  
AVTGVLENPAGLYELDGQLGLCLAYQQFRGLRRVMRPGVCLQLQDVHLLQSVGGGTRRPV  
LAPCLRGAVLLQSFSRQKPGAHSRQAYGASLYEQLVWERQLGLPLYLWATKALEELACK  
LCPHVLRRHHQFLQHSSPGSPSLGLQLLAPTLDLLAPPGSPVRNAHNEILEEPHHCPLQKY  
TRLQTPSSFPTLATLKEEGQRKAWASFDPKALLPLPEASYLPSCQLNRRLAWSWLCCLPS  
AFCPAQVLLGLVAVSSHKGCLQLRDQSGSLPCLLLAKHSQPLSDPRLIGCLVRAERFQLI  
VERDVRSSFPSPWKELSMPPGFIQKQQARVYVQFFLADALILPVPRPCLHSATPSTPQTDPT  
GPEGPLHGLSRLFLLCHKEALMKRNFVPPGASPEVVKPALSFYVLGSWLGGTQRKEGTG  
WGLPEPQGNDNDQKVHLIFFGSSVRWFELHPGQVYRLIAPGPATPMLFEKDGSSCISR  
RPLELAGCASCLTVQDNWTLELESSQDIQDVL DANKSLPESSLTDLLSDNFTDSLVSFSA  
EILSRTLCEPLVASLWMKLGNTGAMRRCVKLTVALETAECEFPPLHDVYIEDPHLPPSLG  
LLPGARVHFSQLEKRVSRSHNVCCFRSSTYVQVLSFPPETTISIPLPHIYLAELLQGGQ  
SPFQATASCHIVSVFSLQLFWVCAYCTSIQRQKCTRLGSTCPTQTATISQAIIRLLVEDG  
TAEAVVTCRNHHVAAALGLCPREWASLLDFVQVPGRVVLQFAGPGAQLESSARVDEPMTM  
FLWTLCTSPSVLRPIVLSFELERKPSKIVPLEPPRLQRFQCGELPFLTHVNPRLRLSCLS  
IRESEYSSSLGILASSC

>sp|P49711|CTCF\_HUMAN Transcriptional repressor CTCF OS=Homo sapiens GN=CTCF PE=1 SV=1

MEGDAVEAIVEESETFIKGERKTYQRRREGGQEDACHLPQNQTDGGEVVDVNSSVQM  
VMMEQLDPTLLQMKTEVMEGTVAPEAAVDDTQIITLQVVMEEQPINIGELQLVQVPV  
PVTVPVATTVEELQGAENEVSKEGLAESEPMICHTLPLPEGFQVVKVGANGEVETLEQ  
GELPPQEDPSWQKDPDYQPPAKKTKKTKSKLRYTEEGKDVDVSVYDFEEQEGLLSEV  
NAEKVVGNMPPKPTKIKKKGVKKTFCCELCSYTCPRRSNLDHRMKSHTDERPHKCHLCG  
RAFRTVTLLRNHLNHTGTRPHKCPDCDMAFVTSGELVRHRRYKHTHEKPFKCSMCDYAS  
VEVSKLKRHIRSHTGERPFQCSLCSYASRDYKLRHMRTHSGEKPYECYICHARFTQSG  
TMKMHLQKHTENVAKFHCPHCDTVIARKSDLGVHLRKQHSYIEQGKKCRYCDAVFHERY  
ALIQHQKSHKNEKRFKCDQCDYACRQERHMIMHKRTHTEKPYACSHCDKTFRQKQLLDM  
HFKRYHDPNFPVPAAFVCSKCGKTFTRRNTMARHADNCAGPDGVEGENGETKKS KRGRKR  
KMRSKKEDSSSENAEPDLDDNEDEEPAVEIEPEPEPQVTPAPPPAKRRGRPPGRTN  
QPKQNQPTAIIQVEDQNTGA IENIIVEVKKEPDAEPAEGEEEAQPAATDAPNGDLTPEM  
ILSMMDR

>sp|O60931|CTNS\_HUMAN Cystinosis OS=Homo sapiens GN=CTNS PE=1 SV=2

MIRNWLTIIFILFPLKLVKCESSVSLTVPPVVKLENGSSTNVSLTLRPLNATLVITFEI  
TFRSKNITILELPDEVVVPVGTNSSFQVTSQNVGQLTVYLHGNHSNQTGPRI RFLVIRS  
SAISIIINQVIGWIYFVAWSISFYQVIMNWRRKSVIGLSFDFVALNLTFVAYSVFNIGL  
LWVPYIKEQFLLKYPNGVNPVNSNDVFFSLHAVVLTIIIVQCCLYERGGQRVSWPAIGF  
LVLAWLFAFVTMIVAAGVTTWLQFLFCFSYIKLAVTLVKYFPQAYMNFYKSTEGWSIG  
NVLLDFTGGFSLLQMFLQSYNNDQWTLIFGDPTKFLGLGVFSIVFDVVFFIQHFCLYRKR  
PGYDQLN

>sp|Q6GPI1|CTRB2\_HUMAN Chymotrypsinogen B2 OS=Homo sapiens GN=CTRB2 PE=2 SV=2

MAFLWLLSCWALLGTTFGCGVPAIHPVLSGLSRIVNGEDAVPGSWPWQVSLQDKTGFHFC  
GGSLISEDWVVTAACHGVRTSDVVVAGEFDQGSDEENIQVLKIAKVFNPKFSILTVNND  
ITLLKLATPARFSQTVSAVCLPSADDDFPAGTLCATTGWGKTKYNANKTPDKLQQAALPL  
LSNAECKKSWGRRITDVMICAGASGVSSCMGDSGGPLVCQKDGAWTLVGIVSWGSRCTCST  
TTPAVYARVAKLIPWVQKILAAAN

>sp|P40313|CTRL\_HUMAN Chymotrypsin-like protease CTRL-1 OS=Homo sapiens GN=CTRL PE=2 SV=1

MLLLSLTSLVLLGSSWCGIPAIPALSFQSRIVNGENAVLGSWPWQVSLQDSSGFHFC  
GGSLISQSWVVTAACHCNVSPGRHFVVLGEYDRSSNAEPLQVLSVSRATHPSWNSTTMNN  
DVTLLKLASPAQYTTTRISPVCLASSNEALTEGLTCVTTGWGRLSGVGNVTPAHLQQVALP  
LVTVNQCRQYWSSITDSMICAGGAGASSCQGDSGGPLVCQKGTWVLIGIVSWGTKNCN  
VRAPAVYTRVSKFSTWINQVIAYN

>sp|Q96P56|CTSR2\_HUMAN Cation channel sperm-associated protein 2 OS=Homo sapiens  
GN=CATSPER2 PE=1 SV=2

MAAYQEEQMQPLPRADAIRSLIDTFSLEIHLQGLSQAVPRHTIRELLDPSRQKKLVLDG  
QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPFKNFIIFLVFL  
NTIILMVEIELLESTNTKLWPLKLTLEVAWFILLIFILEILLKWLNSFSVFWKSAWNVF  
DFVVTMLSLLPEVVVLVGVGTGQSVWLQLLRICRVLRLSLKLLAQFRQIQIIILVLRALKS  
MTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFSDLPNSLVTVFILFTLDHWY  
ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFQNIKELNEEMARREV  
QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDSSRGASQQRSLDLSEVSEVESNYGATE  
EDLITSASKTEETLSKKREYQSSSCVSTSSSYSSSESERFSESIGRLDWETLVHENLPG  
LMEMDQDDRVPDRSLFRYFELLEKLQYNLEERKKLQEFQALMNLEDK

>sp|Q9H7T0|CTSRB\_HUMAN Cation channel sperm-associated protein subunit beta OS=Homo  
sapiens GN=CATSPERB PE=2 SV=2

MESPLIYVSVLLNIFEFSSGIVYNKDDTEKRFACSNKGFPQENEIIKLYLFLENLKIQC  
FFQTENEIASKAMLSVFTSGGLAPSLGIMNSTYNGIFHFNLTLFSDRILWLVDIPRENIT  
QSTDIAAVEEWLVRI TLHHGLNIYATEGTLLDVIREPILQWTPGDVPESEISKLYPHVV  
DLKVTCKPCANDVALLGFIVDTIVDGVYIGITFGGFWHDYDTTFNMTQTIYSQLQEEYE  
DLSLDMVL TNHFLVILTSGLFVSEDLRYP SRHLSFSRADFCGFERVDYVKGKLWYNE  
RCFANREHFEVDYVTVTFERNRLSESSCFYSQEPFLEWVPCLPHIFKGKIFPTVLT  
LVDQERGTGVYLFYNKVRKTAIASVSTLRNNEPNSQSKFPIFRFPSSFSPVGMVFHPRS  
HFLYAYGNQIWLSDGGNTFQLIANFHDDI IKKTFHSFYTSAITFVSQRGKVYSTKAGMG  
RYSAVGSVTERIFTLYYDHLGFLHKLTLGRFEASGPPTAFGNSRNLFGQPPDMGFETALA  
PQHTSLDEIIFAYVPENEPQETIYSKKFGNIHYGKVIHSGKTGRAYIRKVLQHTTPKGF  
LSSVIAEMKEPFGLEEVNESSCLSSSLINKAGNVYKLTLD SQVVQALFEDTDIEKTVVL  
PGYSSFLITSILDKNALAIATMPESAPNNMTFLKSTWFLYNFGQRNGRTWKIYSKPCNY  
WFQHDDPSL NIVKYIDLGNSYVLKAKVIRNAKGFRMLEIPLLT VFGNPNLLEVTA EVT  
FDDTDSYVITISAASKVLHQGSTSLAFIMWSASTECFVTMTVPTLKSSCSYLRSMMHHIPS  
KFIPFEDWISGVHKDSQGFNLIKTLPINRPPSNMGIAIPLTDNFYHADPSKPIPRNMFH  
MSKKTGKFKQCANVSTREECNCTKDQKFSHAVAFSDCREKVPRFKFPI TQYPVSLEIINE  
DGRVPLQSPYLVTVTEVNMRHNWKLKHTVPENIKRMKQLVEPILGAAYNP SGLNLSIKG  
SELFHFRVTVISGVTFCNLIEEFQIYVDEAPLPFPGHTLIAVATAVVLGGLIFIAFMFQL  
QGIHPWRTFQRWIRRNQEKFSISLSEL IHRSKSEE

>sp|A2AJT9|CX023\_HUMAN Uncharacterized protein CXorf23 OS=Homo sapiens GN=CXorf23 PE=1 SV=1

MARSRSRSPRWKHSLSVPVRNAEHYKQRHSHGHYGCEYRKDPKRPVAWRMDSEKHGQSK  
PRIPSRGNIYYQSYEHRSPSPNIRNSLENVYMYKPHRGYSPGRGDSNRRQAQYMPKYSEGI  
PYKEHERNSYPQKVQGGHSPDDHRVRGSGKGGKPPQRSIADSFREFGKWHEDELHQRIQ  
EEKYSQSTRRGSDEFETRSSFQKRYPEDRDFRKYGHTSKRPKDVERYESREPARNPWKWP  
EHSLLPPYQEDTDQWNLGPQTYRHAEREHPETSSATKVSYDYRHKRPKLLDGDQDFSDGRT  
QKYCKEEDRKYSFQKGPLNRELCFNTGRGRETQDGQVKEPFKPSKKDSIACTYSNKNDV  
DLRSSNDKWKEKIKKEGDCRKESNSSSNQLDKSQKLPDVKPSPINLRKKSLLTVKVDVKKT  
VDTFRVASSYSTERQMSHDLVAVGRKSENFHPVFEHLDSTQNTENKPTGEFAQEIIITIIH  
QVKANYFSPSGITLHERFSTMQDIHKADVNEIPLNSDPEIHRRIDMSLAELQSKQAVIYE  
SEQTLIKIIDPNDLRHDIERRRKERLQNEDEHIFHIAAAERDDQNSSFSKVKNVHTDGF  
QKPTHFIKSNFRKCIEKPYMNYTTQRKDIITHKPFVEGHRNTRVRPFKSNFRGGRCQP  
NYKSGLVQKSLYIQAKYQRLRFTGPRGFITHKFRERLMRKKEYTDVATGI

>sp|Q9H5V9|CX056\_HUMAN UPF0428 protein CXorf56 OS=Homo sapiens GN=CXorf56 PE=1 SV=1

MPKVVSRSVVCSDTRDREYYDDGEKPLHVYYCLCGQMVVLDCQLEKLPMPRPDRSRVID  
AAKHAHKFCNTEDEETMYLRRPEGIERQYRKKCAKGLPLFYQSQPKNAPVTFIVDGAVV  
KFGQGFGKTNIIYQKQEPKPKVMMTKRTKDMGKFSSVTSTIDEEEEIEAREVADSYAQ  
NAKVIKQLERKGMKSRRLQELAELEAKKAKMKGTLDNQFK

>sp|A6NEN9|CX065\_HUMAN Uncharacterized protein CXorf65 OS=Homo sapiens GN=CXorf65 PE=4 SV=1

MFIFIKHGDNQFLVNTNCAVVLLYYIRSKVKLPKTNTIDLCEQTGKMKMLFLMKPNHA  
EYASKYLTAIRSTYVCKVERGPPGTRLENAYRAFVPLLKNPEPWLLVALRIQCDALEERRR  
IQMLKMKEAKKVIIIEPPASVPSKQSGRSDKKKSTRKSPTFRNRPDFRKNKGRQLNKTTK  
QKK

>sp|P12074|CX6A1\_HUMAN Cytochrome c oxidase subunit 6A1, mitochondrial OS=Homo sapiens GN=COX6A1 PE=1 SV=4

MAVVGVSRSRLGRSRPQLGRPMSSGAHGEESARMWKTLTFFVALPGVAVSMLNVYLK  
SHHGEHERPEFIAYPHLRIRTKPFPPWGDGNHTLFHNPHVNPLPTGYEDE

>sp|P99999|CYC\_HUMAN Cytochrome c OS=Homo sapiens GN=CYCS PE=1 SV=2

MGDVEKGKKIFIMKCSQCHTVEKGKKHTGPNLHGLFGRKTGQAPGYSYTAANKNKGIW  
GEDTLMEYLENPKKIYIPGTMIFVGIKKKEERADLIAYLKATNE

>sp|Q96F07|CYFP2\_HUMAN Cytoplasmic FMR1-interacting protein 2 OS=Homo sapiens GN=CYFIP2 PE=1 SV=2

MTTHVTLEDALSNDLLEELPLPDQPCIEPPSSIMYQANFDTNFEDRNAFVTGIARYI  
EQATVHSSNMNMLEEGHEYAVMLYTWRSCSRAIPQVKCNEQPNRVEIYEKTVLEVLEPEVT  
KLMKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCS  
VKNDHSAYKRAAQFLRKMDPQSIQESQNLSMFLANHNRTQCLHQQLEVIPGYEELLAD  
IVNICVDYYENKMYLTPSEKHMMLKVMGFLYLMGDNVSNYKLDKAKKRINLSKIDKFFK  
QLQVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPQYNICEQMVQIRDDHIRFI  
SELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHPTD  
KFCNKDCPGTAAEYERATRYNTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIY  
AALQDFAQVTLREPLRQAVRKKKNVLISVLQAIRKTI CDWEGGREPPNDPCLRGEKDPKG  
GFDIKVPRRAVGPSSTQACQWSPRALFHPTGGTQGRRGCRSLLYMVRTMLES LIADKSGS



KKTLRSSLDGPVLAIEDFHKQSFFFTHLLNISEALQQCCDLSQLWFREFFLELTMGRRRI  
QFPIEMSMPWILTDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVN  
LCFDQFVYKLADQIFAYYKAMAGSVLLDKRFRAECKNYGVIIIPPSPNRYETLLKQRHVQ  
LLGRSIDLNRITQRISAAMYKSLDQAISRFESEDLTISIVELEWILLEINRLTHRLCKHM  
TLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQEPQ  
RDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGVPPHFKTICRLGQGIQIYVMEELLKI  
VKSLLQGTILQYVKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAELKTDVQFS  
LREVGNAILFCLLIEQALSQEEVCDLLHAAPFQNILPRVYIKEGERLEVRMKRLEAKYAP  
LHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILTRIRSYLQDPIWRGPPPTN  
GVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAECFGDGLNWAGCSIIVLLGQQRFFDL  
FDFCYHLLKVQRQDGKDEI IKNVPLKKMADRIRKYQILNNEVFALNKYMKSVETDSSTV  
EHVRCFQPPIHQSLATTC

>sp|Q5SW24|DACT2\_HUMAN Dapper homolog 2 OS=Homo sapiens GN=DACT2 PE=2 SV=1

MWTPGGPPGSAGWDRRLRGARLRAAFAGLQELQGLRATQQERVRGALALQPPPAPAAPCG  
PHGLHGPEQQLEAALAEQLSRLRQQDIGLKTHLDQLDLQISKLQLDVGTASGEALDS  
DSRPSSGFYEMSDGGSCSLSTSCASVCSDHISPSLGSLLPVAQAHKARPSMGDWRPRSVD  
ETTPAWRPQATEEGARPPGSVEDAGQPWGTFWPRPVSTGDLDRALPADTGLQKASADAE  
LLGLLCQGVDIPLHVPDPKYRQDLVSQGGREVYPYPSPLHAVALQSPLFVLTKETPQRGG  
PSFPRESRPGPAGLNTIQTGPVLEAGPARARAYIDRLLHLWGRETAKGSEGEQGPLRHA  
ASPSQRQGGWSTDGGGRLLVFAPGREDEGGPAQSRGAGRGPPQQGYMPLEGPQQSGSL  
PEEGSKPSNSCVLRETMVQASPSSKAQQTSAQDYGRGNIISPSRMLDKSPSPASGHFAH  
PSFAASLKMGPCKSAEKIKRSPMDKVLRFARQPLLLDRPEGAAAPQPSLEWDPAHWP  
TGRGGLQRRPALAWEAPGRSCSESTLYPMPVLVPLAVAPQESHRTSAQALFPFEASLLTS  
VARRKHRRWQSTVEISARARLASCPESNLGP RPVARRAGGPLARGPSLVRQDAYTRSD  
SEPSKHSACDPFRFSPVIPETSEGESSDHTNRFQDRESSSSDEEGGAQSRDCDLALGYV  
AAGHAELAWTQEA PVSSGPLLSPVPKLCRIKASKALKKKIRRFQPTALKVMTMV

>sp|POC864|DANCR\_HUMAN Putative uncharacterized protein DANCR OS=Homo sapiens GN=DANCR  
PE=5 SV=1

MAGVPVPPHGLAVRAAALHPAPLRIFPGLAELPDL SRGSAARPALASLPGIGCGPRDPP  
ASLPAPRRLSGLCARRRSQASLSAGVARADAPLCSGFRAGHACGTGTQPQPTLSSRSSSL  
TSAEVQLPQFLAQVDNYRHKPLKLECPVAGISIDLSQLSLQLQ

>sp|Q8NEA5|CS018\_HUMAN Uncharacterized protein C19orf18 OS=Homo sapiens GN=C19orf18 PE=2  
SV=1

MDKVQSGFLILFLFLMECQLHLCLPYADGLHPTGNITGLPGSKRSQPPRNITKEPKVFFH  
KTQLPGIQGAASRSTAASPTNPMKFLRNKAIIRHRPALVKVILISSVAFSIALICGMAIS  
YMIYRLAQAEERQQLESYKNLRIPLLGDEEEGSEDEGESTHLLPENENELEKFIHSVII  
SKRSKNIKKKLKEEQNSVTENKTKNASHNGKMEDL

>sp|Q9H6X5|CS044\_HUMAN Uncharacterized protein C19orf44 OS=Homo sapiens GN=C19orf44 PE=1  
SV=1

MASARKASRPMRDVFGDFSDVSLEDSTMEEIRNFQISRNLTKIAPGHSRFLKRNQTLDEK  
HLLLKENPVLGSGPRLASCRPPTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDS  
MTADAGLPKRADRILSGGALELASQNTDKTSQNQARELPVTENNAQNAKVSFLKKKQAP  
VENISPEAPAGKERTLQTPKQKEPARTFDS PDSDEEEMKVLLGSLMDSSREKNTNQGFSS  
ANVSEEEERKLFSVPSQLRAFTVPSVELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ

SHVSSDTASHTPSV SITGAFSNSVSLKMGHVKLVS SPGRSEAETVDEPVSE GADDSLDEF  
RINILSLDGLAPAVSENSDLEQEEESAQRQKTAGKIFRAEASTGQDAPRQAQARS WASQG  
KAASAEGDESEVSEHLSASSASAIQQDSTSSMQPPSEAPMVNTVSSAYSED FENSPSLTA  
SEPTAHSKESLDRTLDALSESSSVKTDLPQTAESRKKSGRHVTRVLVKDTAVQTPDPAF  
TYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL  
TQQFIQASRHLHASLLRSLDADSFHYHTLEEAKKEYIRCHRPAPLTMEDALEEVNKE L

>sp|Q5BKX5|CS054\_HUMAN UPF0692 protein C19orf54 OS=Homo sapiens GN=C19orf54 PE=1 SV=2

MTSPCSPPLKPPISPPKTPVPQASSIPSPPLPPSPLDFSALPSPWSSQQTVPVPPPLPLPP  
PPAATGPAPRHVFGLEKSQLLKEAFDKAGVPVKGREDVKRLLKLHKDRFRGDLRWILFCA  
DLPSLIQEGPQCGLVALWMAGTLLSPPSGVPLERLIRVATERGYTAQGEMFSVADMGRLA  
QEVLCQAKLLSGGLGGPNRDLVLQHLVTGHPLLI PYDEDFNHEPCQRKGHKAHWAVSAG  
VLLGVRAPVPSLGYTDEPELPGLFHPVLGTPCQPPSLPEEGSPGAVYLLSKQGKSWHYQLW  
DYDQVRESNLQLTDFSPSRATDGRVYVVPVGGVRAGLCGQALLLTPQDCSH

>sp|C9J6K1|CS081\_HUMAN Putative uncharacterized protein C19orf81 OS=Homo sapiens  
GN=C19orf81 PE=4 SV=1

MQPEVEPVCFPAMGSPTMHRKAGALLMDLETPEEMQARSLGRPIKSSKQYLRQVIAEYEA  
LDRELPCIRKFPTPPASQPLCLCMETLPEEDFTHLEVLQALEAQLPGAMESGRVSSIRFE  
NMNVICGTAGRRNRWLI AVTDFQTRSRLLRSGLSPRGLAHQIVRHDDL LLDYRLHLRRS  
LVRRRMLEALGAEPNEEA

>sp|I3L1E1|CS084\_HUMAN Uncharacterized protein C19orf84 OS=Homo sapiens GN=C19orf84 PE=4  
SV=1

MEQPKDGAGPEGNNLSLPSSGTEPWPPAPLPAPPPLLLNSTDPHTLGLPESVASVTVP IR  
LDTLSCLLHSALLGAYTFQALPSCPCCSQAGHSQPGAVRRPPRGRGGWEVRHRPGWGRG  
LHRRGLGRAEQPERGRAGGPGAGPRTPPMTLPSPTLPAQDGKKEARGPEPPLETPLAAE  
DWET EY

>sp|Q9Y5P2|CSAG2\_HUMAN Chondrosarcoma-associated gene 2/3 protein OS=Homo sapiens  
GN=CSAG2 PE=2 SV=2

MWMGLIQLVEGVKRDQGFLEKEFYHKTNIKMRCEFLACWPAFTVLGEAWRDQVDWSRLL  
RDAGLVKMSRKPRASSPLSNNHPPTPKRRGSGRHPLNPGPEALSKFPRQPGREKGP I KEV  
PGTKGSP

>sp|Q6XLA1|CSC2A\_HUMAN Protein CASC2, isoform 3 OS=Homo sapiens GN=CASC2 PE=2 SV=1

MTQEKMYPHLFSERCANQHQRHTAEKKYVSEKQLIHWRC EEP SAHHNSIDIKRMKHFGS  
ALRLRQT FHLDTADHPCVITMNPALPWKLEGSNSTSTLPLPA

>sp|Q9Y2W7|CSEN\_HUMAN Calsenilin OS=Homo sapiens GN=KCNIP3 PE=1 SV=1

MQPAKEVTKASDGSLLGDLGHTPLSKKEGIKWQRPLSRQALMRCCLVK WLSSTAPQGS  
DSSDSELELSTVRHQPEGLDQLQAQTKFTKKELQSLYRGFKNECPTGLVDEDTFKLIYAQ  
FFPQGDATTYAHFLNFAFDADGNGAIHFEDFVVGLSILLRGTVHEK LK WAFNLYDINKDG  
YITKEEMLAIMKSIYDMMGRHTYPI LREDAPAEHVERFF EKMDRNQDGVVTIEEFLEACQ  
KDENIMSSMQLFENVI

>sp|P09603|CSF1\_HUMAN Macrophage colony-stimulating factor 1 OS=Homo sapiens GN=CSF1 PE=1  
SV=2

MTAPGAAGRCPTTWLGSLLLL VCLLASRSITEEVSEYCSHMIGSGHLQSLQRLIDSQME  
TSCQITFEFVDQEQLKDPVCYLKKAFLLVQDIMEDTMRFRDNTPN AIAIVQLQELSLRLK  
SCFTKDYEEHDKACVRTFYETPLQLLEKVKNVFNETKNLLDKDWNIFSKNCNNSFAECSS

QDVVTKPDCNCLYPKAIPSSDPASVSPHQPLAPSMAPVAGLTWEDSEGTEGSSLLPGEQP  
LHTVDPGSAKQRPPRSTCQSFEPPEPTPVVKDSTIGGSPQPRPSVGAFNPGMEDILDSAMG  
TNWVPEEASGEASEIPVPQGTELSPSRPGGGSMQTEPARPSNFLSASSPLPASAKGQQA  
DVTGTALPRVGPVRPTGQDWNHTPQKTDHPSALLRDPPEPGSPRISSLRPQGSLNPSTLS  
AQPQLSRSHSSGSVLPLGELEGRRSTRDRRSPAEEGGPASEGAARPLPRFNSVPLTDTG  
HERQSEGSFSPQLQESVFHLLVPSVILVLLAVGGLLFYRWRRRSHQEPQRADSPLEQPEG  
SPLTQDDRQVELPV

>sp|P67870|CSK2B\_HUMAN Casein kinase II subunit beta OS=Homo sapiens GN=CSNK2B PE=1 SV=1  
MSSSEEVSWISWFCGLRGNEFFCEVDEDYIQDKFNLTGLNEQVPHYRQALDMILDLEPDE  
ELEDNPNQSDLIEQAEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPML  
PIGLSDIPGEAMVKLYCPKCMDVYTPKSSRHHHTDGAYFGTGPHMLFMVHPEYRPKRPA  
NQFVPRLYGFKIHPMAYQLQLQAASNFKSPVKTIR

>sp|Q8WXE0|CSKI2\_HUMAN Caskin-2 OS=Homo sapiens GN=CASKIN2 PE=1 SV=2  
MGREQDLILAVKNGDVTGVQKLVAVKATKTKLLGSTKRLNVNYQDADGFSALHHAALGG  
SLELIALLLAEQATVDIKDSNGMRPLHYAAWQGRLEPVRLLLRASAAVNAASLDGQIPLH  
LAAQYGHYEVSEMLLQHQSNCPLVNKAKKTPLDLACEFGRLKVAQLLLNSHLCVALLEGE  
AKDPCDPNYTTPLHLAAKNGHREVIRQLLRAGIEINRQTKTGTALHEAALYGKTEVVRL  
LEGGVDVNIRNTYNQALDIVNQFTTSQASREIKQLLREASGILKVRALKDFWNLHDPTA  
LNVragdVITVLEQHPDGRWKGHIHESQRGTDRIGYFPPGIVEEVSKRVGIPAARLPSAP  
TPLRPGFSRTPQPPAEPPHPLTYSQLPRVGLSPDSPAGDRNSVGSEGSVGSIRSAGSGQ  
SSEGTNGHGPGLLIENAQPLPSAGEDQVLPGLHPPSLADNLSHRPLANCRSGEQIFTQDV  
RPEQLLEGKDAQAIHNWLSEFQLEGYTAHFLQAGYDVPTISRMTPEDLTAIGVTKPGHRK  
KIASEIAQLSIAEWLPSYIPTDLLEWLCALGLPQYHKQLVSSGYDSMGLVADLTWEELQE  
IGVNKLGHQKKMLGVKRLAELRRGLLQGEALSEGRRRLAKGPELMAIEGLENGEGPATA  
GPRLLTFQGSSELPQAAMAGGPEPLPLPARSPSQESIGARSRGSGHSQEQPAPQPS  
GGDPSPPQERNLPEGTERPPKLCSSLPQGPPPYVFMYPQGSPSPAPGPPPGAPWAFSY  
LAGPPATPPDPPRPKRRSHLSRPGPTEGDAEGEAEGPVGSTLGSYATLTRRPGRSALVR  
TSPSVTPTPARGTPRSQSFA LRARRKGPPPPPPKRLSSVSGPSPEPPPLDESPGPKGAT  
GPRRTLSEAPAGSEPPGPAPAGPASDTEEEEPGPEGTPPSRGSSGEGLPFAEEGNLTI  
KQRPKAGPPPRETPVPPGLDFNLTESDTVKRRPKCREREPLQTALLAFGVASATPGPAA  
PLPSPTPGESPPASSLPQPEPSSLPAQGVPTPLAPSPAMQPPVPPCPGPGLESSAASRWN  
GETEPPAAPAALLKVPAGTAPKPVSVACTQLAFSGPKLAPRLGPRPVPPRPESTGTVG  
PGQAQQRLEQTSSSLAAALRAAEKSIGTKEQEGTPSASTKHILDDISTMFDALADQLDAM  
LD

>sp|P41240|CSK\_HUMAN Tyrosine-protein kinase CSK OS=Homo sapiens GN=CSK PE=1 SV=1  
MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWKAKNKVGREGII  
PANYVQKREGVKAGTKLSLMPWFHGKITREQAERLLYPETGLFLVRESTNYPGDYTLCV  
SCDGKVEHYRIMYHASKLSIDEEVYFENLMQLVEHYTSDADGLCTRLIKPKVMEGTVAQAQ  
DEFYRSGWALNMKELKLLQTIGKGEFGDVMLGDYRGNKVAVKCIKNDAQAFLAEASVM  
TQLRHSNLVQLLGVIIVEEGGLYIVTEYMAKGS�VDYLSRGRSVLGGDCLLKFSLDVCE  
AMEYLEGNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPVKWTAPEALRE  
KKFSTKSDVWSFGILLWEIYSFGRVPYPRIPKDVVPRVEKGYKMDAPDGCPPAVYEVVK  
NCWHLDAAMRPSFLQLREQLEHIKTHELHL

>sp|Q7Z407|CSMD3\_HUMAN CUB and sushi domain-containing protein 3 OS=Homo sapiens GN=CSMD3  
PE=2 SV=3

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FIYTCGGTLKGLNGTIESPGFPYGYPNGANCTWVIAEERNRIQIVFQSFALLEEYDYL  
LYDGHPTNFTRTLTGFLPPPVTSTKSVFSLRLTSDFAVSAHGFKVYYEELQSSSCGN  
PGVPPKGVLYGTRFDVGDKIRYSCVTGYILDGHPQLTCIANSVNTASWDFPVPICRAEDA  
CGGTMRGSSGISSPSFPNEYHNNADCTWTIVAEPGDTISLIFTDFQMEEKYDYLEIEGS  
EPPTIWLSGMNIPPIISNKNWLRHLFVTDNHRIRYRGFSAPYQGSSTLTHTTSTGELEEH  
NRTTGAIAVASTPADVTVSSVTAVTIHRLSEEQRVQVTSLRNSGLDPNTSKDGLSPHPA  
DTQSTRRRPRHAEQIERTKELAVVTHRVKKAIDFKSRGFKLFPKDNSNKFSILNEGGIK  
TASNLCPPDPGEPENGKRIGSDFSLGSTVQFSCDEDYVLQGAKSITCQRIAEVFAAWSHR  
PVCKVKTCGSNLQGPSGTFTSPNPFQYDSNAQCVWVITAVNTNKVIQINFEEFDLEIGY  
DTLTIGDGGEVGDPRTVLQVLTGFSVPDLIVSMSSQMWLHLQDES VGSVGFKNYKEIE  
KESCGDPGTPLYGIREGDGFSNRDVLRFECQFGFELIGEKSIVCQENQWSANIPICIFP  
CLSNFTAPMGTVLSPDYPEGYGNLNCIWTIISDPGSRHLNFDNFDLESQFDFLAVKDG  
DSPESPILGTFTGAEVPSHLTSNSHILRLEFQADHMSGRGFNITYNTFGHNECPDPGIP  
INARRFGDNFQLGSSISVICEEGFIKTQGTETITCILMDGKVMWSGLIPKCGAPCGGHFS  
APSGVILSPGWPGYKDSLNCWVIEAEPGHSIKITFERFQTELNYDVLEVHDGPNLLSP  
LLGSYNGTQVPQFLFSSSNFIYLLFTDNSRSNNGFKIHYESVTVNTYSCLDPGIPVHGR  
RYGHDFSIGSTVSFSCDSGYRLSHEEPLLCEKNHWWSHPLPTCDALCGGDVRGPSGTILS  
PGYPEFYPNSLNCTWTVDVTHGKGVQFNHFTFHLEDHHDYLLITENGSTQPLARLTGSD  
LPPTINAGLYGNFRAQLRFISDFSISYEGFNITFSEYNLEPCEDPGIPQYGSRIGNFNGI  
GDTLTFSCSSGYRLEGTSEIICLGGGRRVWSAPLPRCAECGASATNNEGILLSPNYPLN  
YENNHECIYSIQVQAGKGINISARTFHLAQGDVLKIYDGDKTTHLLGAFTGASMRGLTL  
SSTSNQLWLEFNSDTEGTDEGFQLVYTSFELSHCEDPGIPQFGYKISDQGHFAGSTIIYG  
CNPGYTLHGSSLLKCMTGERRAWDYPLPSCIAECGGRFKGESSGRILSPGYPPYDNNLR  
CMWMIEVDPGNIVSLQFLAFDTEASHDILRVWDGPPENDMLLKEISGSLIPEGIHSTLNI  
VTIQFDTDYFISKSGFAIQFSSSVATAACRDPGVPNGTRNGDGREPGDTVVFQCDPGYEL  
QGEERITCIQVENRYFWQSPSPVCIAPCGNLTGSSGFILSPNFPHPYPHSRDCDWTITV  
NADYVISLAFISFSIEPNYDFLYIYDGPDSNSPLIGSFQDSKLPERIESSSNTMHLAFRS  
DGSVSYTGFLHEYKAKLRESCFDPGNIMNGTRLGMDYKLGSTVITYCDAGYVLQGYSTLT  
CIMGDDGRPGWNRALPSCHAPCGSRSTGSEGTVLSPNYPKNYSVGHNCVYSIAVPKEFVV  
FGQFVFFQTSLHDVVEVYDGTQSSLLSSLSGSHGESLPLSSGNQITIRFTSVGPITA  
KGFHFVYQAVPRTSSTQCSSVPEPRFGRRIGNEFAVGSSVLFDCNPGYILHGSIARCET  
VPNSLAQWNSDLPTCIVPCGGILTKRGTILSPGYPEPYDNNLNCVWKITVPEGAGIQVQ  
VVSFATEHNWDSLDFYDGGDNNAPRLGSYSGTTIPHLLNSTSNLYLNFQSDISVSAAGF  
HLEYTAIGLDSCEPQTPSSGIKIGDRYMGDVVSFQCDQGYSLQGHSHITCMPGPVRRW  
NYPIPICLAQCGGAMSDFSGVILSPGFPGNYPSSLDCTWTINLPIGFGVHLQFVNFSTET  
IHDYLEVRSGSSETSTVIGRLSGPQIPSSLFSTHETSLYFHSQNKQGFHIVYQAYQ  
LQSCDPDRPFRNGFVIGNDFTVGQTISFECFPGYTLIGNSALTCLHGVSRRNWNHPLPRCE  
ALCGGNITAMNGTIISPGYPDEYPNFQDCFVLRVPPGNGIYINFTVLQTEPIYDFITVW  
DGPDQNSPQIQGFSGNTALESVYSTSNQILIKFHSDFTTSGFFVLSYHAYQLRVCQPPPP  
VPNAEILTEDDEFEGDIIRYQCLPGFTLVGNAILTCRLGERLQMDGAPPVCQVLCPANE  
LRLDSTGVILSPGYPDSYPNLQMAWSISVEKGYNITMFVEFFQTEKEFDVLQVYDGPNI

QSPVLISLSGDYSSAFNITSNGHEVFLQWSADHGNNKGFRIRYIAFYCSTPESPPHGYI  
ISQTGGQLNSVVRWACDRGFRLVGKSSAVCRKSSYGYHAWDAPVPACQAISCGIPKAPT  
GGILTTDYLVGTRVTYFCNDGYRLSSKELTTAVCQSDGTWSNHNKTPRCVVVTCPSINSF  
ILEHGRWRIVNGSHYEYKTKVVFSCDPGYHGLGPASIECLPNGTWSWRNERPYCQIIISCG  
ELPTPPNGNKIGTQTSYGSTAIFTCDLGFMLVGSARECLSSGLWSESETRCLAGHCGIP  
ELIVNGQVIGENYGYRDTVVYQCNPGFRLIGSSVRICQQDHNWSGQLPSCVPVSCGHPGS  
PIYGRTSNGNFNFNDVVFSCNIGYLMQGPTKAQCQANRQWSHPPMCKVVNCSDPGIPA  
NSKRESKIEHGNFTYGTVVFYDCNPGYFLFGSSVLICQPNGQWDKPLPECIMIDCGHPGV  
PPNAVLSGEKYTFGSTVHYSTGKRSLGQSSRTCQLNGHWSGSQPHCSGDATGTCGDPG  
TPGHGSRQESNFRKSTVRYACDTGYILHGSEERTCLANGSWTGRQPECKAVQCGNPGTT  
ANGKVFRIDGTTFSSSIYSCMEGYILSGPSVRQCTANGTWSGTLNCTIIISCGDPGIPA  
NGLRYGDDYVVGQNVSYMCQPGYTMELNGSRIRTCTINGTWSGVMPCTRAVTCPTPPQIS  
NGRLEGTNFDWGFSSISYICSPGYELSFPAVLTCVNGTWSGEVPQCLPKFCGDPGIPAQG  
KREGKSFYIQSEVSFSCNPFILVGSSTRICQADGTWSGSSPHCIEPTQTSCENPGVPRH  
GSQNTTFGFQVGSVVQFHCKKGHLLQGSTTRTCLPDLTWSGIQPECIPHCKQPETPAHA  
NVVGMDLPSHGYTLIYTCQPGFFLAGGTEHRVCRSDNTWTGKVPICEAGSKILVKDPRPA  
LGTPSPKLSVPDDVFAQNYIWKGSYNFKGRKQPMTLTVTSFNASTGRVNATLSNSNMELL  
LSGVYKSQEARLMLRIYLIKVPAHASVKKMKEENWAMDGFVSAEPDGATYVFQGFQIGKD  
YQQFGLQRLGLNMSEGSNSSNQPHGTNSSSVAIAILVPPFALIFAGFGFYLYKQRTAPKT  
QYTGCSVHENNNGQAAFENPMYDTNAKSVGKAVRFDPNLNTVCTMV

>sp|Q9UBW8|CSN7A\_HUMAN COP9 signalosome complex subunit 7a OS=Homo sapiens GN=COPS7A PE=1  
SV=1

MSAEVKVTGQNQEQLLLAKSAKGAALATLIHQVLEAPGVYVFGELLDMPNVRELAESDF  
ASTFRLLTVFAYGTYADYLAEARNLPLTEAQKNKLRHLSVVTAAKVKCIPIYAVLLEAL  
ALRNVQRLEDLVIEAVYADVLRGSLDQRNQRLEVDYSIGRDIQRQDLSAIARTLQEWCVG  
CEVVLSGIEEQVSRANQHKEQQLGLKQKQIESEVANLKKTIKVTTAAAAAATSQDPEQHLT  
ELREPAPGTNQRQPSKKASKGKGLRGSAKIWSKSN

>sp|Q8WYN3|CSRNP3\_HUMAN Cysteine/serine-rich nuclear protein 3 OS=Homo sapiens GN=CSRNP3  
PE=2 SV=1

MSGILKRKFEEVDGSSPCSSVRESDEVSSSESADSGDSVNPSTSSHFTPSSILKREKRL  
RTKNVHFSCVTVYYFTRRQGFTSVPSQGGSTLGMSSRHNSVRQYTLGEFAREQERLHREM  
LREHLREEKLNSLKLKMTKNGTVESEEAATLTLDDISDDIDLDNTEVDEYFFLQPLPTK  
KRRALLRASGVKKIDVEEKHELRAIRLSREDCGCDRVCDPDTCTCSLAGIKCQVDRMS  
FPCGCTKEGCSNTAGRIEFNPIRVRTFLHTIMKLELEKNREQQIPTNLNGCHSEISAHSS  
SMGPVAHSVEYSIADSFETEPQAAVLHLQSAEELDCQGEEEEEEEDGSSFCSGVTDSS  
TQSLAPSESEEEEEEEEEEEEEEDDDDKGDFVEGLGTHAEVVPLPSVLCYSDGTAVHE  
SHAKNASFYANSSTLYYQIDSHIPGTPNQISENYSERDTVKNGTLSLVPYTMTPQFVDY  
ARQAEAYGASHYPAANPSVIVCCSSSENDSGVPCNSLYPEHRSNHPQVEFHSLKGPSQ  
EGFVSALNGDSHISEHPAENSLSLAEKSILHEECIKSPVETVPV

>sp|Q16527|CSRNP2\_HUMAN Cysteine and glycine-rich protein 2 OS=Homo sapiens GN=CSRNP2 PE=1  
SV=3

MPVWGGGNKCGACGRVYHAEVQCDGRSFHRCCLCMVCRKNLDSTTVAIHDEEYICKS  
CYGKKYGPKGYGGQAGTLNMDRGERLGKIPESVQPHRPTNPNTSKFAQKYGGAEKCS  
RCGDSVYAAEKIIIGAGKPWHKNCFRCAKCGKSLESTTLTEKEGEIYCKGKYAKNFGPKGF

GYGQGAGALVHAQ

>sp|P50461|CSRP3\_HUMAN Cysteine and glycine-rich protein 3 OS=Homo sapiens GN=CSRP3 PE=1 SV=1

MPNWGGGAKCGACEKTVYHAEIQCNGRSFHKTCFHCMACRKALDSTTVAHSEIYCKV  
CYGRRYGPKGIGYGQGAGCLSTDTGEHLGLQFQQSPKPARSVTTSNPSKFTAKFGESEKC  
PRCGKSVYAAEKVMGGGKPPWHKTCFRCAICGKSLESTNVTDKDGELYCKVCYAKNFGPTG  
IGFGGLTQQVEKKE

>sp|Q9H112|CST11\_HUMAN Cystatin-11 OS=Homo sapiens GN=CST11 PE=1 SV=2

MMAPWQALQLLLAILLTLMALPYQARKKTFLSVHEVMAVENYAKDSLQWITDQYNKESD  
DKYHFRIFRVLKVQRQVTDHLEYHLNVEMQWTTCCQKPETTNCVPQERELHKQVNCFFSVF  
AVPWFEQYKILNKSCSSD

>sp|Q9H114|CST1L\_HUMAN Cystatin-like 1 OS=Homo sapiens GN=CSTL1 PE=2 SV=2

MGIGCWRNPLLLLIALVLSAKLGHFQRWEGFQQKLMSKKNMNSTLNFFIQSYNNASNDTY  
LYRVQRLIRSQMQLTTGVEYIVTVKIGWTKCKRNDTSNSSCPLQSKKLKSLICESLIYT  
MPWINYFQLWNNSCLEAEHVGRNLR

>sp|O60676|CST8\_HUMAN Cystatin-8 OS=Homo sapiens GN=CST8 PE=1 SV=1

MPCRWLSLILLTIPLALVARKDPKKNETGVLRLKLPVNASNANVKQCLWFAMQEYNKES  
EDKYVFLVVKTLQAQLQVTNLLEYLIDVEIARSDCRKPLSTNEICAIQENSKLKRKLSCS  
FLVGALPWNGEFTVMEKKCEDA

>sp|PODMU8|CT455\_HUMAN Cancer/testis antigen family 45 member A5 OS=Homo sapiens GN=CT45A5 PE=2 SV=1

MTDKTEKVAVDPETVFKRPRECDSPSYQKRQRMALLARKQGAGDSLIIAGSAMSKEKKLMT  
GHAIPPSQLDSQIDDFTFGSKDGMMPKPGSNAPVGGNVTSSFSGDDLECRETASSPKSQR  
EINADIKRKLVKELRCVGQKYEKIFEMLEGVQGPTAVRKRFFESIIEKAARCMRRDFVKH  
LKKKLKRFMI

>sp|O14578|CTRO\_HUMAN Citron Rho-interacting kinase OS=Homo sapiens GN=CIT PE=1 SV=2

MLKFKYGARNPLDAGAAEPIASRASRLNFFQKGPPFMTQQQMSPLSREGILDALFVLFE  
ECSQPALMKIKHVSNFVRKYSDTIAELQELQPSAKDFEVRSLVGCGHFAEVQVVREKATG  
DIYAMKVMKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKNHLYLVMEYQPGG  
DLLSLLNRYEDQLDENLIQFYLAELILAVHSVHLMGYVHRDIKPENILVDRTHIKLVDF  
GSAAKMNSNMVNAKLPIGTPDYMAPEVLTVMNGDGKGTGLDCDWWSVGVIAIYEMIYGR  
SPFAEGTSARTFNNIMNFQRFKFPDDPKVSSDFDLIQSLLCGQKERLKFEGLCCHPFF  
SKIDWNNIRNSPPPFVPTLKSDDDTSNFDEPEKNSWSSSPCQLSPSGFSGEELPFVGFS  
YSKALGILGRSESVVSGLDSPAKTSSMEKKLLIKSKELQDSQDKCHKMEQEMTRLHRRVS  
EVEAVLSQKEVELKASETQRSLLQDLATYITECSSLKRSLEQARMEVSQEDDKALQLLH  
DIREQSRKLQEIKEQEYQAQVEEMRLMMNQLEEDLVSARRRSDLYESELRESRLAAEEFK  
RKATECQHKLKAKDQKGPEVGEYAKLEKINAEQQLKIQELQEKLEKAVKASTEATELLQ  
NIRQAKERAERELEKLQNRDSSEGIKRLVEAELEEKHREAAQVSAQHLEVHLKQKEQH  
YEEKIKVLDNQIKKDLADKETLENMMQRHEEEAHEKGKILSEQKAMINAMDSKIRSLEQR  
IVELSEANKLAANSLFTQRNMKAQEEMISELRQQKFYLETQAGKLEAQNRLKEEQLEKI  
SHQDHSDKNRLLLETRLREVSLHEEEQKLELKRQLTELQLSLQERESQLTALQAARAAL  
ESQLRQAKTELETTAAEAEIQAHTAHRDEIQRKFDALRNSCTVITDLEEQLNQLTEDN  
AELNNQNFYLSKQLDEASGANDEIVQLRSEVDHLRREITEREMQLTSQKQTMEALKTTCT  
MLEEQVMDLEALNDELLEKERQWEAWRSVLGDEKSQFECRVRELQRMLDTEKQSRARADQ

RITESRQVVELAVKEHKAEILALQQALKEQKLKAESLSDKLNDLEKKHAMLEMNARSLQQ  
KLETERELKQRLLEEQAKLQQQMDLQKNHIFRLTQGLQEALDRADLLKTERSLEYQLEN  
IQVLYSHEKVMEGTISQQTKLIDFLQAKMDQPAKKKGLFSRRKEDPALPTQVPLQYNE  
LKLALKEKARCALEEALQKTRIELRSAREEAAHRKATDHPHPSTPATARQQIAMSATV  
RSPEHQPSAMSLAPSSRRKESSTPEEFSRRLKERMHHNIPHRFNVGLNMRATKCAVCL  
DTVHFGRQASKCLECQVMCHPKCSTCLPATCGLPAEYATHFTEAFCDKMNSPGLQTKEP  
SSSLHLEGWMKVPRNNKRGQQGWRKYIVLEGSKVLIYDNEAREAGRPVEEFELCLPDG  
DVSIHGAVGASELANTAKADVPIILKMESHPTTCWPGRITLYLLAPSPDKQRWVTALES  
VVAGGRVSREKAEADAKLLGNSLLKLEGDDRLDMNCTLPFSDQVVLVGTTEGLYALNVLK  
NSLTHVPGIGAVFQIYI IKDLEKLMIAGEERALCLVDVKVKQSLAQSHLPAQPDISP  
N IFEAVKGCHLFGAGKIENGLICAAMPSKVILRYNENLSKYCIRKEIETSEPCSCIHFT  
NYSILIGTNKFYEIDMKQYTL EEFLDKNDHSLAPAVFAASSNSFPVSIVQVNSAGQREEY  
LLCFHEFGVFVDSYGRRSRTDDLKWSRLPLAFAYREPYLVFTHFNSLEVIEIQARSSAGT  
PARAYLDIPNPRYLGAISSGAIYLASSYQDKLRVICCKGNLVKESGTEHHRGPSTSRSS  
PNKRGPPITYNEHITKRVASSAPPEGPSHPREPSTPHRYREGRTELRRDKSPGRPLEREK  
SPGRMLSTRRERSPGRLFEDSSRGRLPAGAVRTPLSQVNKVDQSSV

>sp|Q7RTX7|CTSR4\_HUMAN Cation channel sperm-associated protein 4 OS=Homo sapiens  
GN=CATSPER4 PE=2 SV=1

MRDNEKAWWQQWTSHTGLEGGTQEDRMGFGGAVAALRGRPSPLQSTIHESYGRPEEQV  
LINRQEITNKADAWDMQEFITHMYIKQLLRHPAFQLLLALLLVINAITIALRTNSYLDQK  
HYELFSTIDIVLTILLCEVLLGWLNGFWIFWKDGNILNFIIVFILLRFFINEINIPS  
INYTLRALRLVHVCMAVEPLARIIRVILQSVPMANIMVLILFFMLVFSVFGVTLFGAFV  
PKHFQNIQVALYTLFICITQDGWVDIYSDFQTEKREYAMEIGGAIYFTIFITIGAFIGIN  
LFVIVVTNLEQMMKAGEQGGQQRITFSETGAEEEEENDQLPLVHCVVARSEKSGLLQEP  
LAGGPLSNLSENTCDNFCLVLEATQENLRQYKEIRDELNMIVEEVRAIRFNQEQESEVLN  
RRSSTSGSLETTSSKDIRQMSQQDLLSALVSMEKVHDSQSILLKHKHSSH

>sp|Q6ZRH7|CTSRG\_HUMAN Cation channel sperm-associated protein subunit gamma OS=Homo  
sapiens GN=CATSPERG PE=2 SV=3

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VSDSFFEQEPVDTVSSLFHMLVDSPIDPSEKYLGFPPYLLKINYSCEEKPSEDLVRMGHLT  
GLKPLVLVTFQSPNVFYRWKIEQLQIQMEAAPFRSKEPCMAEEVCSMSWYTPMPIKKGSV  
VMRVDISSNGLGTFIPDKRFQMNINGFLKRDRDNNIQFTVGEELFNMPQYFVGVSRRPL  
WHTVDQSPVLILGGIPNEKYVMTDTSFKDFSLVELSIDSCWVGSFYCPHSGFTATIIDT  
IATESTLFIHQNLVYYFTGTYYTTLYERNRSGSGWIRVLASECIKKLCPVYFHSNGSEYI  
MALTTGKHGEYVHFGTIRDGQVSFEMLPQWQSVCEQIGVTTCSIWSEYIAGEYTLNLLV  
ESGYGNASKRFQVVSNTASDDLELLYHIPEFIPEARGLFELMILGTESYTSTAMAPKGI  
FCNPYNLIFIWGNFLLQSSNKENFIYLADFPKELSIKYMARSFRGAVAIVTETEEIWYL  
LEGSYRVYQLFPSKGWQVHISLKLMMQSSLYASNETMLTLFYEDSKLYQLVYLMNNQKGQ  
LVKRLVPVEQLLMYQQHTSHYDLERKGGYMLSFIDFCPFSVMRLRSLPSPQRYTRQERY  
RARPPRVLERSGFHNENSLAIYQGLVYYLLWLHSVYDKPYADPVHDPTRWWANNKQDQD  
YYFFLASNWSAGGVSIEMSYEKIYNLESAYELPERIFLDKGTEYSFAIFLSAQGHFSFR  
TQSELGTAFQLHSQVDVGVLADPGCIEASVKQEVLINRNSVLFSITLKDKKLCYDQGIS  
GHHLMETSMTVNNGVSSGLCFQETHLGPHMQGNLMVPVFIGCPPGKRLAFDITYTLEYSR  
LKNKHVYFDCVNVNPEMPCFLFRDIFYPPFLIQDLVTGDSGSFQGSYVLLVVGGGPTLDSL

KDYSEDEIYRFNSPLDKTNSLIWTRTRTTTKDSAFHIMSHESPGIEWLCLENAPCYDNV  
PQGIFAPEFFFKVLVSNRGVDTSTYCNYQLTFLLIHGLPLSPKRALFIIMVSASVFGV  
VIFYIAFCLLWPLVVKGCTMIRWKINLIASESYTTYASISGISSMPSLRHSRMGSMFSS  
RMTEDRAEPKEAVERQLMT

>sp|P60606|CTXN1\_HUMAN Cortixin-1 OS=Homo sapiens GN=CTXN1 PE=3 SV=1

MSATWTLSPPEPLPPSTGPPVGAGLDAEQRTVFAFVLCLLVLLMVRCVRILLDPYSRM  
PASSWTDHKEALERGGFDYALV

>sp|P58505|CU058\_HUMAN Uncharacterized protein C21orf58 OS=Homo sapiens GN=C21orf58 PE=2  
SV=2

MARSRLPATSLRKPKWKLDRQKLSPDSGHSLLCGWSPGGKARPAGNTGAWAPAEQFFPAS  
NRTREGGGLWPLPLQSSPAATMLDSSAAEQVTRLTLKLLGQKLEQERQNVGGPEGLH  
LEPGNEDRPDDALQTALKRRRDLLQRLREQHLLDELSRAQAWSGPSRGALGSALPPELPP  
TGILPTASPSPLAPDPPRIILPTVPQPPATIIQQLPQQPLIAQIPPPQAFPTQRSGSIKE  
DMVELLLLQNAQVHQLVLQNWMLKALPPALQDPPHVPPRPVRAARPLPAVHHHHHHHHA  
VWPPGAATVLQPAPSLWTPGPP

>sp|P59091|CU093\_HUMAN Putative uncharacterized protein encoded by LINC00315 OS=Homo  
sapiens GN=LINC00315 PE=5 SV=1

MDSLTERCRPQPLAALGPADAQLHGPAAGGGVGPVMLSSLCREHPWQGRCPPIPAHGK  
EVRQLRHLHRTRPPDTHQDMARGPGLPHTHGLPARPSHVRHQTEPVQVASRWHVPSDGLC  
RPCHVHQLLHPPLVPALGA

>sp|A6NGU7|CX028\_HUMAN Putative uncharacterized protein encoded by LINC01546 OS=Homo  
sapiens GN=LINC01546 PE=4 SV=1

MGELAASANHGHSPCYPERKGTGDL SKRKMLVHFYPRRHSHPRATQQWILKNKTLCRRI  
KE

>sp|Q96DE9|CX04B\_HUMAN Protein CXorf40B OS=Homo sapiens GN=CXorf40B PE=2 SV=1

MKFGCLSFRQPYAGFVLNGIKTVETRWRPLSSQRNCTIAVHIAHRDWEGDACRELLVER  
LGMPAQIQAALLRKGEKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKY  
LTVISNPRWLLEIPRKGKDVQVDIPEHLIPLGHEV

>sp|Q86X51|CX067\_HUMAN Uncharacterized protein CXorf67 OS=Homo sapiens GN=CXorf67 PE=1  
SV=1

MATQSDMEKEQKHQQDEGGGLNNETALASGDACGTGNQDPAASVTTVSSQASPSGGAAL  
SSSTAGSSAAAATSAAIFITDEASGLPIIAAVLTERHSDRQDCRSPHEVFGCVVPEGGSQ  
AAVGPPKATGHADEHLAQTSPGNSRRRKQPCRNQAAPAKPPGRRLFPEPLPPSSPGFR  
PSSYPCSGASTSSQATQPGPALLSHASEARPATRSRITLVASALRRRASGPGPVIRGCTA  
QPGPAFPHRATHLDPARLSPESAPGPARRGRASVPGPARRGDSAPGPARRGRDSAPVSA  
PRGRDSAPGSARRGRDSAPGPALRVRTARSDAGHRSTSTPTGTLRSRSTQQRSALLSRR  
SLSGSADENPSCGTGSERLAFQSRSGSPDPEVPSRASPPVWHAVRMRASSPSPPGRFFLP  
IPQQWDESSSSSYASNSSSPSRSPGLSPSSPSPEFLGLRSISTPSPESLRYALMPEFYAL  
SPVPPEEQAEIESTAHPATPPEP

>sp|Q02221|CX6A2\_HUMAN Cytochrome c oxidase subunit 6A2, mitochondrial OS=Homo sapiens  
GN=COX6A2 PE=2 SV=2

MALPLRPLTRGLASAAKGHGGAGARTWRLLTFVLALPSVALCTFNSYLHSGHRPRPEFR  
PYQHLRIRTKPYPWGDGNHTLFHNSHVNPLPTGYEHP



>sp|Q6YFQ2|CX6B2\_HUMAN Cytochrome c oxidase subunit 6B2 OS=Homo sapiens GN=COX6B2 PE=1 SV=1

MLDVEAQEPKKGWSTPPFDPRFPSQNIQIRNCYQNFLDYHRCLKTRTRRGKSTQPCEYYF  
RVYHSLCPISWVESWNEQIKNGIFAGKI

>sp|Q969M2|CXA10\_HUMAN Gap junction alpha-10 protein OS=Homo sapiens GN=GJA10 PE=2 SV=1

MGDWNLGGILEEVHSHSTIVGKIWLTLFIFRMLVLRVAAEDVWDDEQSAFACNTRQPG  
CNNICYDDAFPISLIRFWVLQIIFVSSPSLVYMGHALYRLRAFEKDRQRKKSHLRAQMEN  
PDLLEEQQRIDRELRLEEQRKRIHKVPLKGCLLRTYVLHILTRSVLEVGFMIQYIILYG  
FQMHPYKCTQPPCNAVDCFSVRPTEKTIIFMLFMHSIAAISLLNILEIFHLGIRKIMR  
TLYKKSSEGIEDETGPPFHLKKYSVAQQCMICSSLPERISPLQANNQQQVIRVNVPSK  
TMWQIPQPRQLEVDPSNGKKDWSEKQHSGLHVHSPCPWAGSAGNQHLGQSDHSSFG  
LQNTMSQSWLGTTPARNCPFAVGTWEQSDPEPSGEPLTDLHSHCRDSEGSRESGVWI  
DRSRPGSRKASFLSRLSEKRHLHSDSGSSGSRNSSCLDFPHWENSPSPLSVTGHRTSM  
VRQAALPIMELSQELFHSGCFLFPFPLPGVCMYVCVDREADGGGDYLWRDKIIHSIHSVK  
FNS

>sp|P17302|CXA1\_HUMAN Gap junction alpha-1 protein OS=Homo sapiens GN=GJA1 PE=1 SV=2

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGTAVESAWGDEQSAFRCNTQQPG  
CENVCYDKSFPISHRVFWLQIIFVSVPTLLYLAHVFYVMRKEEKLKKEEELKVAQTDG  
VNVDMLKQIEIKKFKYGIEEHGKVKMRGGLRTYIISILFKSIFEVAFLLIQWYIYGFS  
LSAVYTCKRDPCPHQVDCFLSRPTEKTIIFIMLVVSLVSLALNIIELFYVFFKGVKDRV  
KGKSDPYHATSGALSPAKDCGSQKYAYFNGCSSPTAPLSPMPPGYKLVTGDRNNSSCRN  
YNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHELQPLAIVD  
QRPSSRASSRASSRPRPDDLEI

>sp|P36382|CXA5\_HUMAN Gap junction alpha-5 protein OS=Homo sapiens GN=GJA5 PE=1 SV=3

MGDWSFLGNFLEEVBKHSTVVGKVLTVLFIIFRMLVLGTAAESSWGDEQADFRCDTIQPG  
CQNVCYDQAFPISHIRYVWLQIIFVSTPSLVYMGHAMHTVRMQEKRKLREAERAKEVRGS  
GSYEYPVAEKAELSCWEEGNRIALQGTLLNTYVCSILIRTTMEVGFIVGQYFIYGIFLT  
TLHVCRRSPCPHPVNCYVSRPTEKNVIFVFLAVAALSLLSLAELYHLGWKKIRQRFVK  
PRQHMAKQCLSGSPGVIVQCTPPPDFNQCLENGPGGKFFNPFSNNMASQQNTDNLVTEQ  
VRGQEQTPEGFIQVRYGQKPEVPNGVSPGHRLPHGYHSDKRRLSKASSKARSDDLVS

>sp|P19875|CXCL2\_HUMAN C-X-C motif chemokine 2 OS=Homo sapiens GN=CXCL2 PE=1 SV=1

MARATLSAAPSNPRLLRVALLLLLLVAASRRAGAPLATELRQCCLQTLQGIHLKNIQSV  
KVKSPGPHCAQTEVIATLKNQKACLNPASPMVKKIIIEKMLKNGKSN

>sp|Q9H2H0|CXXC4\_HUMAN CXXC-type zinc finger protein 4 OS=Homo sapiens GN=CXXC4 PE=2 SV=1

MHHRNDSQRLGKAGCPPEPSLQMANTNFLTSLSPEHCRPLAGECMNKLKCGAAEAEIMNL  
PERVGTFSAPALGGISLPPGVIVMTALHSPAAASAAVTDSAFQIANLADCPQNHSSSSS  
SSSGGAGGANPAKKRKRKRCGVCVCKRLINCGVCSSCRNRKTGHQICKFRKCEELKKKPG  
TSLERTPVPSAEAFRWFF

>sp|Q6PUV4|CPLX2\_HUMAN Complexin-2 OS=Homo sapiens GN=CPLX2 PE=2 SV=2

MDFVMKQALGGATKDMGKMLGEEEEKDPDAQKKEEERQEALRQEEERKAKHARMEAEERE  
KVRQQIRDKYGLKKKEEKEAEKAALEQPCESLTPKKAIPAGCGDEEEEEESILDTV  
LKYLPGPLQDMFKK

>sp|P22792|CPN2\_HUMAN Carboxypeptidase N subunit 2 OS=Homo sapiens GN=CPN2 PE=1 SV=3

MLPGAWLLWTSLLLLARPAQPCPMGCDCFVQEVFCSDEELATVPLDIPPYTKNIIFVETS

FTTLETRAFGSNPNTKVVFLNTQLCQFRPDAFGGLPRLEDLEVTGSSFLNLSTNIFSNL  
TSLGKLTNLFNMLEALPEGLFQHLLAALESHLQGNQLQALPRRLFQPLTHLKTNLQAQNL  
LAQLPEELFHPLTSLQTLKLSNNALSGLPQGVFGKLGSLQELFLDSNNISELPPQVFSQL  
FCLERLWLQRNAITHPLSIFASLGNLTFLSLQWNMLRVLPAGLFAHTPCLVGLSLTHNQ  
LETVAEGTFAHLSNLRSLMLSNAITHLPAGIFRDLEELVKLYLGSNNLTALHPALFQNL  
SKLELLSLSKNQLTTLPEGIFDTNYNLNFNLALHGNPWQCDCHLAYLFNWLQQYTDRLNLI  
QTYCAGPAYLKGGVVPALNEKQLVCPVTRDHLGFQVTPDESKAGGSWDLAVQERAARSQ  
CTYSNPEGTVVLACDQAQCRWLNVLSPQQGSLGLQYNASQEWDLRSSCGSLRLTVSIEA  
RAAGP

>sp|Q9HCH3|CPNE5\_HUMAN Copine-5 OS=Homo sapiens GN=CPNE5 PE=1 SV=2

MEQPEDMASLSEFDSLGSIPATKVEITVSCRNLLDKDMFSKSDPLCVMTQGMENKQWR  
EFGRTVIDNTLNPDFVRKFIVDYFFEEKQNLRFDLVDVSKSPDLSKHDFLGQAFCTLG  
EIVGSPGSRLEKPLTIGAFSLNSRTGKMPAVSNGGVPGKKCGTIILSAEELSNCRDVAT  
MQFCANKLDDKDFGKSDPFLVFYRSNEDGTFTICHKTEVMKNTLNPVWQTFSIPVRALC  
NGDYDRTIKVEVYDWRDGSDFIGFTTSYRELARGQSQFNIYEVVNPKKMKKKKYVN  
SGTVTLSSFAVESECTFLDYIKGGTQINFVAIDFTASNGNPSQSTSLHYMSPYQLNAYA  
LALTAVGEIIQHYSDKMFALGFGAKLPPDGRVSHEFPLNGNQENPSCCGIDGILEAYH  
RSLRTVQLYGPTNFAPVVTHVARNAAVQDGSQYSVLLIITDGVISDMAQTKEAIVNAAK  
LPMSIIIVGVGQAEFDAMVELDGDVRISSRGKLAERDIVQFVPRDYVDRTGNHVLMSA  
RLARDVLAEIPDQLVSYMKAQGIRPRPPAAPHTSPSPARTPPASPLHTHI

>sp|Q9BRF8|CPPED\_HUMAN Serine/threonine-protein phosphatase CPPED1 OS=Homo sapiens  
GN=CPPED1 PE=1 SV=3

MSAAEAGGVFHRARGRTLAAPFAEKESWKGPFFYFILGADPQFGLIKAWSTGDCDNGGDE  
WEQEIRLTEQAVQAINKLNPKPKFFVLCGDLIHAMPGKPWRTEQTEDLKRVLRAVDRAIP  
LVLVSGNHDIGNTPTAETVEEFCRTWGDDYFSFWVGGVLFVLVNSQFYENPSKCPSLKQA  
QDQWLDEQLSIARQRHCQHAIVFQHIPLFLESIDEDDDYFNLKSTRKKLADKFIHAGV  
KVVFSGHYHRNAGGTQNLDMVVSSAIGCQLGRDPHGLRVVVVTAEKIVHRYYSLELSE  
KGIEDDLMDLIKKK

>sp|P31327|CPSM\_HUMAN Carbamoyl-phosphate synthase [ammonia], mitochondrial OS=Homo  
sapiens GN=CPS1 PE=1 SV=2

MTRILTAFAKVVRTLKTGFGFTNVTAHQKWKFSRPGIRLLSVKAQTAHIVLEDGTMKGYS  
FGHPSSVAGEVVFNTGLGGYPEAITDPAYKGQILTMANPIIGNGGAPDPTALDELGLSKY  
LESNGIKVSGLLVLDYSKDYHNWLATKSLGQWLQEEKVPAIYGVDTMLTKIIRDKGTML  
GKIEFEGQPVDFVDPNKNLIAEVSTKDVKYVGKGNPTKVAVDCGIKNNVIRLLVKRGA  
EVHLPWNHDFTKMEYDGILIAGGPGNPALAEPLIQNVRKILES DRKEPLFGISTGNLIT  
GLAAGAKTYKMSMANRGQNQPVLNITNKQAFITAQNHGYALDNTLPAGWKPLFVNVNDQT  
NEGIMHESKPPFAVQFHPEVTPGPIDTEYLFDSFFSLIKKGKATTITSVLPKALVASRV  
EVSKVLILGSGGLSIGQAGEFDYSGSQAVKAMKEENVKTVLMNPNIASVQTNEVGLKQAD  
TVYFLPITPQFVTEVIKAEQPDGLILGMGGQTALNCGVELFKRGVLKEYGVKVLGTSVES  
IMATEDRQLFSDKLEINEKIIAPSFIVESIEDALKAADTIGYPVMIRSAYALGGLGSGIC  
PNRETLMDLSTKAFAMTNQILVEKSVTGWKEIEYEVVRDADDNCVTVCNMENV DAMGVHT  
GDSVVVAPAQTLNAEFQMLRRTSINVVRHLGIVGECNIQFALHPTSMEYCIIEVNARLS  
RSSALASKATGYPLAFIAAKIALGIPLPEIKNVVSGKTSACFEPSLDYMVTKIIPRWDLDR  
FHGTSSRIGSSMKSVGEVMAIGRTFEESFQKALRMCHPSIEGFTPRLPMNKEWPSNLDLR

KELSEPSSTRIYAIKAIDNMSLDEIEKLTYIDKWFLYKMRDILNMEKTLKGLNSESMT  
EETLKRAKEIGFSDKQISKCLGLTEAQTRELRLKKNHPVVKQIDTLAAEYPSVTNYLYV  
TYNGQEHDVNFDDHGMVLGCGPYHIGSSVEFDWCAVSSIRTLRQLGKKTVVVNCNPETV  
STDFDECDKLYFEELSLERILDIYHQEACGGCIISVGGQIPNNLAVPLYKNGVKIMGTSP  
LQIDRAEDRSIFS AVLDELKVAQAPWKAVNTLNEALEFAKSVDYPCLLRPSYVLSGSAMN  
VVFSEDEMKKFLEEATRVSQEHPVVLTKFVEGAREVEMDAVGKDRVISHAISEHVEDAG  
VHSGDATLMLPTQTISQGAIEKVKDATRKIAKAFAISGPFNVQFLVKGNDVLVIECNLRA  
SRSFPFVSKTLGVDFIDVATKVMIGENVDEKHLPTLDHPIIPADYVAIKAPMFSWPRLRD  
ADPILRCEMASTGEVACFGEGIHATAFLKAMLSTGFKIPQKGILIGIQQSFRPRFLGVAEQ  
LHNEGFKLFATEATSDWLNANNVPATPVAWPSQEGQNPSLSSIRKLIRDGSIDLVINLPN  
NNTKFVHDNYVIRRTAVDSGIPLLTNFQVTKLFAEAVQKSARKVDSKSLFHRYQYSAGKAA

>sp|A6NHQ4|CQ096\_HUMAN Uncharacterized protein C17orf96 OS=Homo sapiens GN=C17orf96 PE=1  
SV=1

METLCPAPRLAVPASPRGSPCPTPRKPCRGTQEFSPCLCLRALAFCALAKPRASSLGPGP  
GELAARSPVLRGPQAPLRPGGWAPDGLKHLWAPTGRPGVPNTAAGEDADVAACPRRGEEE  
EGGGGFPHFGVRSCAPPGRCPAPHPRESTTSFASAPPRPAPGLEPQRGPAASPPQEPSS  
RPPSPAGLSTEPAGPGTAPRPFPLPGQPAEVDGNPPPAEPAASPSTASPAPAAPGDL  
RQEHFDRLIRRSKLWCYAKGFALDTPSLRRGPERPPAKGPARGAAKKRRLPAPPPRTAQP  
RRPAPTLPPTTSTFSLNCFPCPPALVVGEDGDLKPASSLRLQGDSKPPPAHPLWRWQMGG  
PAVPEPPGLKFWGINMDES

>sp|Q6UX52|CQ099\_HUMAN Uncharacterized protein C17orf99 OS=Homo sapiens GN=C17orf99 PE=1  
SV=2

MGLPGLFCLAVLAASSFSKAREEEITPVVSIAYKVLVFPKGRWVLITCCAPQPPPPITY  
SLCGTKNIKVAKKVVKTHEPASFNLVTLKSSPDLLTYFCWASSTSGAHVDSARLQMHWE  
LWSKPVSELNANFTLQDRGAGPRVEMICQASSGSPITNSLIGKDGQVHLQQRPCRQPA  
NFSFLPSQTSDFWCQAANNANVQHSALTVPVPPGGDQKMEDWQGPLESPILALPLYRSTR  
RLSEEEFGGFRIGNGEVRGRKAAAM

>sp|Q8TEY5|CR3L4\_HUMAN Cyclic AMP-responsive element-binding protein 3-like protein 4  
OS=Homo sapiens GN=CREB3L4 PE=1 SV=1

MDLGIPDLLDAWLEPPEDIFSTGSVLELGLHCPPPEVPVTRLQEQLQGWKSGGDRGCGL  
QESEPEDFLKLFIDPNEVYCSEASPGSDSGISEDPCHPDSPPAPRATSSPMLYEVVYEAG  
ALERMQGETGPNVGLISIQLDQWSPAFMVPDSCMVSELPFDAHAHILPRAGTVAPVPCTT  
LLPCQTLFLTDEEKRLLGQEGVSLPSHLPLTKAEERVLKKVRRKIRNKQSAQDSRRRKKE  
YIDGLESRVAACSAQNQELQKKVQELERHNISLVAQLRQLQTLIAQTSNKAQSTSTCVLI  
LLFSLALIILPSFSPFQSRPEAGSEDYQPHGVTSRNILTHKDV TENLETQVVESRLREPP  
GAKDANGSTRTLLEKMGGKPRPSGRIRSVLHADEM

>sp|P53674|CRBB1\_HUMAN Beta-crystallin B1 OS=Homo sapiens GN=CRYBB1 PE=1 SV=2  
MSQAAKASASATVAVNPGPDTKGKGAPPAGTSPSPGTTLAPTTVPITSAKAAELPPGNYR  
LVVFELENFQGRRAEFSGECSNLADRGFDRVRSIIVSAGPWVAFEQSNFRGEMFILEKGE  
YPRWNTWSSSYRSRDLMSFRPIKMDAQEHKISLFEGANFKGNTIEIQGDDAPSLWVYGFS  
DRVGSVKVSSGTWVGYYQYPGYRGYQYLLEPGDFRHWNEWGAFQPMQSLRRLRDKQWHLE  
GSFPVLATEPPK

>sp|P26998|CRBB3\_HUMAN Beta-crystallin B3 OS=Homo sapiens GN=CRYBB3 PE=1 SV=4  
MAEQHGAPEQAAAGKSHGDLGGSYKVIYELNFKGKRCELSAECPSLTDLSLEKVGSIQ

VESGPWLAFESRAFRGEQFVLEKGDYPRWDAWSNSRSDSLLSLRPLNIDSPHHKLHLFE  
NPAFSGRKMEIVDDVPSLWAHGFQDRVASVRAINGTWVGYEFPGYRGRQYVFERGEYRH  
WNEWDASQPQLQSVRRIRDQKWHKRGRFPSS

>sp|075629|CREG1\_HUMAN Protein CREG1 OS=Homo sapiens GN=CREG1 PE=1 SV=1

MAGLSRGSARALLAALLASTLLALLVSPARGRGRDHGDWDEASRLPPLPPREDAARVAR  
FVTHVSDWGALATISTLEAVRGRPFADVLSLSDGPPGAGSGVPYFYLSPLQLSVSNLQEN  
PYATLTMTLAQTNFCKKHGFDPQSPLCVHIMLSGTVTKVNETEMDIAKHSLFIRHPEMKT  
WPSSHNVFFAKLNITNIWVLDYFGGPKIVTPEEYYNVTVQ

>sp|P11844|CRGA\_HUMAN Gamma-crystallin A OS=Homo sapiens GN=CRYGA PE=2 SV=3

MGKITFYEDRDFQGRYCNCISDCPNLRVYFSRCNSIRVDSGCWMLYERPNYQGHQYFLRR  
GKYPDYQHWMGLSDSVQSCRIIPHTSSHKRLRYERDDYRGLMSELTDCCACVPELFRLE  
IYSLHVLGECWVLYEMPNYRGRQYLLRPGDYRRYHDWGGADAKVGSLLRRVTDLY

>sp|075462|CRLF1\_HUMAN Cytokine receptor-like factor 1 OS=Homo sapiens GN=CRLF1 PE=1 SV=1

MPAGRRGPAAQSARRPPPLPLLLLLCVLGAPRAGSGAHTAVISPDPTLLIGSSLLATC  
SVHGDPPGATAEGLYWTLNGRRLPPELSRVLNASTLALALANLNGSRQRSGDNLVCHARD  
GSILAGSCLYVGLPPEKPVNISCSKMKDLTCRWTPGAHGETFLHTNYSKYKLWYQG  
DNTCEEYHTVGPCHSHIPKDLALFTPYEIWVEATNRLGSARSDVLTLDILDVVTDP  
VHVSrvGGLEDQLSVRWVSPALKDFLFQAKYQIRYRVDSVDWKVDDVSNQTSCLAG  
LKPGTVYFVQVRCNPFGIYGSKKAGIWEWSHPTAASTPRSERPGPGGACEPRGGEPS  
GPVRELKQFLGWLKKHAYCSNLSFRLYDQWRAWMQSKHKTRNQDEGILPSGRRGTARGP  
AR

>sp|Q9BQ61|CS043\_HUMAN Uncharacterized protein C19orf43 OS=Homo sapiens GN=C19orf43 PE=1  
SV=1

MAAGRRRAEPQGREAPGPAGGGGGSRWAESGSGTSPESGDEEVSGAGSSPVSGGNLFA  
NDGSFLELFKRKMEEEQRQRQEEPPPGPQRPDQSAAGPGDPKRGKGGPGSTLSFVGKRR  
GGNKLALKTGIVAKKQKTEDEVLTSGKDAWAKYMAEVKKYKAHQCGDDDKTRPLVK

>sp|Q8NA69|CS045\_HUMAN Uncharacterized protein C19orf45 OS=Homo sapiens GN=C19orf45 PE=2  
SV=2

MATGALLPCSRPCMSRLDFLKASHFSLGPDRLRHEGTMRTTSHRDFAYPAATREPPSLQ  
PPPALLFPMDPRWDREERVSEAHRAFPSTPPWELLQAQARERTLAMQAGNLHLHEDAH  
AGIGLSNAHAAYGWPELPARTRERIRGARLIFDRDSLPPGDRDKLRIPPTTHQALFPHD  
ARPQPRAPSCHLGGPNTLKWYDTRQDGTSYQRQFQALPGPPALRCKRASSGVELGDCKIS  
YGSTCSEQKQAYRPQDLPEDRYDKAATAHIHCVNIRPGDGLFRDRTTKAEHFYAREPEP  
FVLHHDQTPESHILKGNWCPGPGSLDTFMQYFYGQPPPTQPPSRHVPHEKLQSHVTLGE  
PKLLKRFFKTTMGSDYCPSEWRVQKAPNLHLQQSYLPRGTGEFDLTMNQMKLPHRTP  
PAPVTEEMLQRCKYSHMEPPLGGLRFFSTQYKDEFPFKYQGAALRLKNPQEGFVPLGTP  
HQRGCREKIDPLVPQPPMYLCPSSQ

>sp|Q5T4H9|CASC10\_HUMAN Protein CASC10 OS=Homo sapiens GN=CASC10 PE=2 SV=1

MQSREPSGWRTAERRRGWRCRVPTPSGDRGPGAARPAARGGAGETTQQQRPLQVPGASA  
AAARTRLLRWHRVSPRATRSPGSIRRTSPCSGGPDRPERPECADACCYLDPFTLPLI  
QDFFRGCAASDFDRRD

>sp|Q5T3F8|CSCL2\_HUMAN CSC1-like protein 2 OS=Homo sapiens GN=TMEM63B PE=1 SV=1

MLPFLLATLGTTALNNSNP KDYCYSARIRSTVLQGLPFGGVPTVLALDFMCFLALLFLFS  
ILRKVAWDYGRALVTDADRLRRQERDRVEQEYVASAMHGDSH DRYERLTSVSSSVDFDQ

RDNGFCSWLTAFRIKDDEIRDKCGDAVHYLSFQRHIIGLLVVVGVLVSGIVLPVNFSG  
DLENNAYSFGRTTIANLKSGNNLLWLHTSF AFLYLLTVYSMRRTSKMRYKEDDLVKR  
TLFINGISKYAESEKIKKHFEAYPNCTVLEARPCYNVARLMFLDAERKKAERGKLYFTN  
LQSKENVPTMINPKPCGHLCCCVRGCEQVEAIEYYTKLEQKLKEDYKREKEKVNEKPLG  
MAFVTFHNETITAIILKDFNVCKCQGCTCRGEPRPSSCESLHISNWTVSYAPDPQNIYW  
EHL SIRGFIWWLRCLVINVL FILLFFLTTPAIIITMDKFNVTKPVEYLNNP IITQFFP  
TLLWCFSALLPTIVYSAFFEAHWTRSGENRTMHKCYTFLIFMVLLPSLGLSSLDLF  
FRWLFDKKFLAAAI RFECVFLPDNGAFFVNYVIA SAFIGNAMDLLRIPGLLMYMRCL  
ARSAAEERNV KRHQAYEFQGAAYAWMMCVFTVMTYSITCPIIVPFGLMYMLLKHVDR  
YNLYYAYLPAKLDKKIHSGAVNQVVAAPILCLFWLLFFSTMRTGFLAPTSMTFVVLVIT  
IVICLCHVCFGHFKYLSAHNYKIEHTETD TVDPRSNGRPPTAAAVPKSAKYIAQVLQDSE  
VDGDGDGAPGSSGDEPPSSSSQDEELMPPDALTD TDFQSCEDSLIENEIHQ

>sp|P07333|CSF1R\_HUMAN Macrophage colony-stimulating factor 1 receptor OS=Homo sapiens  
GN=CSF1R PE=1 SV=2

MGPVLLLLLLVATAWHGQIPVIEPSVPELVVKPGATVTLRCVGNCSVEWDGPPSPHWTL  
YSDGSSSILSTNNATFQNTGTYRCTEPGDPLGGSAAIHLVVKD PARPWNVLAQEVVVFED  
QDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSAL  
MGGRKVMSSIRLKVQKVI PGPPALTLVPAELVRIRGEAAQIVCSASSVDVNFDFLQHN  
NTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVASNVQGHSTSMFFRVVESAY  
LNLSSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFWNTYLGPFSDHQPEPKLANATTKDTY  
RHTFTLSLPRLKPSEAGRYSFLARNPGWRALTFELTLRYPPEVSVI WTFINGSGTLLCA  
ASGYQPNTWLQCSGHTDRCDEAQVLQVWDDPYPEVLSQEPFHKVTVQSLLTVETLEHN  
QTYECRAHNSVSGSWAFIPISAGATHPPDEF LFTPVVVACMSIMALLLLLLLLLLLYKY  
KQKPKYQVRWKIIESYEGNSYTFIDPTQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEAT  
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ARNVLLTNGHVAKIGDFGLARDIMDNSNYIVKGNARLPVKWMAPE SIFDCVYTVQSDVWS  
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>sp|Q99062|CSF3R\_HUMAN Granulocyte colony-stimulating factor receptor OS=Homo sapiens  
GN=CSF3R PE=1 SV=1

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DGQSHCCIPRKHLLLYQNMGIWVQAENALGTSMSPLCLDPMDVVKLEPPMLRTMDPSPE  
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PVVFSES RGPALTRLHAMARDPHSLWVGWEPPNPWPQGYVIEWGLGPPSASNSNKTWRME  
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>sp|P09919|CSF3\_HUMAN Granulocyte colony-stimulating factor OS=Homo sapiens GN=CSF3 PE=1  
SV=1

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>sp|PODML2|CSH1\_HUMAN Chorionic somatomammotropin hormone 1 OS=Homo sapiens GN=CSH1 PE=1  
SV=1

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YIPKdQkysFLHDSQTSFCFSDSIPTPSNMEETQqKSNLELLRISLLLIesWLEPVrFLR  
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>sp|Q14406|CSHL\_HUMAN Chorionic somatomammotropin hormone-like 1 OS=Homo sapiens GN=CSHL1  
PE=2 SV=2

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WGMEAYITKEQKysFLHDSQTSFCFSDSIPTSSNMEETQqKSNLELLHISLLLIesRLEP  
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>sp|P19784|CSK22\_HUMAN Casein kinase II subunit alpha' OS=Homo sapiens GN=CSNK2A2 PE=1  
SV=1

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DQLVRIAKVLGTEELYGYLKkYHIDLDPhFNdILGqHSRKRWENfIHSENrHLVSPEALD  
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>sp|Q8NEV1|CSK23\_HUMAN Casein kinase II subunit alpha 3 OS=Homo sapiens GN=CSNK2A3 PE=1  
SV=2

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QLVRIAKFLGTEDLYGYIDkYNIeLDPRFNdILGRHSRKRWERfVHSENqHLVSPEALDF  
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>sp|Q96PZ7|CSMD1\_HUMAN CUB and sushi domain-containing protein 1 OS=Homo sapiens GN=CSMD1  
PE=1 SV=2

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>sp|Q7Z408|CSMD2\_HUMAN CUB and sushi domain-containing protein 2 OS=Homo sapiens GN=CSMD2  
PE=1 SV=2

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>sp|Q8WZ74|CTTB2\_HUMAN Cortactin-binding protein 2 OS=Homo sapiens GN=CTTNBP2 PE=1 SV=1

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>sp|P58513|CU042\_HUMAN Putative uncharacterized protein encoded by LINC00158 OS=Homo sapiens GN=LINC00158 PE=5 SV=1

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>sp|Q8TCZ7|CU074\_HUMAN Putative uncharacterized protein encoded by LINC00308 OS=Homo sapiens GN=LINC00308 PE=5 SV=2

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>sp|Q6ZV56|CV034\_HUMAN Uncharacterized protein C22orf34 OS=Homo sapiens GN=C22orf34 PE=2 SV=1

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>sp|Q9P013|CWC15\_HUMAN Spliceosome-associated protein CWC15 homolog OS=Homo sapiens GN=CWC15 PE=1 SV=2

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>sp|Q9HCG8|CWC22\_HUMAN Pre-mRNA-splicing factor CWC22 homolog OS=Homo sapiens GN=CWC22 PE=1 SV=3

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ELDLLTRTGAYIPPAKLMMQEQUITDKNSLAYQRMSWEALKKSINGLINKVNISNISI  
IIQELLQENIVRGRGLLSRSLVLAQASAPIFTHVYAALVAIINSKFPQIGELILKRLILN  
FRKGYRRNDKQLCLTASKFVAHLINQNVAAHEVLCLEMLTLLERPTDDSVVAIGFLKEC  
GLKLTQVSPRGINAIFERLRNILHESEIDKRVQYMIEMFAVRKDGFKDHPIILEGLDLV  
EEDDQFTHMLPLEDDYNPEDVLNVFKMDPNFMENEEKYKAIKKEILDEGDTDSNTDQDAG  
SSEDEEEEEEGEEDGQKVTIHDKTEINLVSRRTIYLAIQSSLD FE ECAHLLKME  
FPESQTKELCNMILDCCAQQRITYEKFFGLLAGRFCMLKKEYMESFEGIFKEQYDTIHRLE  
TNKLRNVAKMFAHLLYTDSLPSVLECIKLSEETTTSSSRIFVKIFFQELCEYMGLPKLN

ARLKDETLQPFEGLLPRDNPRNTRFAINFFTSIGLGGLTDELREHLKNTPKVIVAQKPD  
VEQNKSSPSSSSSSASSSESDDSDSDSDSDSSSESSESDSSSISSHSASANDVRKK  
GHGKTRSKEVDKLRNQQTNDKQKERRQEHGHQETRTERERRSEKHRDQNSSGSNWRDP  
ITKYTSDKDVPSENNYSRVANDRDQEMHIDLENKHGDPKKKRGERRNSFSENEKHTHRI  
KDSENFRRKDRSKSKEMNRKHSGSRSEDDRYQNGAERRWEKSSRYSEQSRESKKNQDRRR  
EKSPAKQK

>sp|Q9NXE8|CWC25\_HUMAN Pre-mRNA-splicing factor CWC25 homolog OS=Homo sapiens GN=CWC25  
PE=1 SV=1

MGGGDLNLKKSHPQTLRNVEKVWKAQKHEAERKKIEELQRELREERAREEMQRYAEDV  
GAVKKKEEKLDWMYQGPQGMVNRDEYLLGRPIDKYVFKEKEEAGCSSETGLLPGSIFA  
PSGANSLLDMASKIREDPLFIIRKKEEEKKREVLNNPVKMKKIKELLQMSLEKKEKKKKK  
EKKKKHKHKHRSSSSDRSSSEDEHSAGRSQKKMANSSPVLSPVPGYGLQVRNSDRNQGL  
QGPLTAEQKRGHGMKNHSRSSHSPRHASKKSTREAGSRDRRSRSLGRRSRSPRPSK  
LHNSKVNRRGTGQTRSPSPKKEVYQRRHAPGYTRKLSAEELERKRQEMMENAKWREERL  
NILKRHAKDEEREQRLEKLDSDRGKFIHRMKLESASTSSLEDVRKNIYSLQRTSVALEK  
NFMKR

>sp|Q8TB33|CX024\_HUMAN Putative uncharacterized protein encoded by LINC01560 OS=Homo  
sapiens GN=LINC01560 PE=4 SV=2

MGALFRLLLQERGKAAEFYSRGRKQRRPSASCTFGGIWSSGVDMLPNGAVGSLTQLGPSR  
PVLGIDYSKKEFRGTAENVTLNTILHFRKRTRS

>sp|Q8N9T2|CX042\_HUMAN Putative uncharacterized protein CXorf42 OS=Homo sapiens GN=NKAPP1  
PE=5 SV=3

MSRFRGCSSSGVRFCSAEREASGSGRGNVLQFVQEPQAQQSRPFPAGAQLSLELLFSDWG  
MEWAQPRLPKPALPLPVVAFSRAADCAVDHHRFCLLLRLLRQLLTLLRDEEREVNPWQ  
RKIVV

>sp|P14406|CX7A2\_HUMAN Cytochrome c oxidase subunit 7A2, mitochondrial OS=Homo sapiens  
GN=COX7A2 PE=1 SV=1

MLRNLLALRQIGQRTISTASRRHFKNKVPEKQKLFQEDDEIPLYLKGGVADALLYRATMI  
LTVGGTAYAIYELAVASFPPKQE

>sp|P78310|CXAR\_HUMAN Cocksackievirus and adenovirus receptor OS=Homo sapiens GN=CXADR  
PE=1 SV=1

MALLLCFVLLCGVDFARSLSITPEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLIS  
PADNQKVDQVILYSGDKIYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQC  
KVKKAPGVANKKIHLLVVLVKPSGARCIVDGSSEIGSDFKIKCEPKEGSLPLQYEWQKLS  
SQKMPTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVGSQCLLRNLVPPSNKAGLIA  
GAIIGTLLALALIGLIIFCCRKKRREEKYEKEVHHDIREDVPPPKSRTSTARSYIGSNHS  
SLGSMSPSNMEGYSKTQYNQVPSEDFERTPQSPTLPPAKVAAPNLSRMGAIPVMIPAQSK  
DGSIV

>sp|P19876|CXCL3\_HUMAN C-X-C motif chemokine 3 OS=Homo sapiens GN=CXCL3 PE=1 SV=1

MAHATLSAAPSNPRLLRVALLLLLLVAASRRAGASVVTLELCQCLQTLQGIHLKNIQSV  
NVRSPGPHCAQTEVIATLKNKKACLNPAAPMVQKIIEKILNKGSTN

>sp|P25024|CXCR1\_HUMAN C-X-C chemokine receptor type 1 OS=Homo sapiens GN=CXCR1 PE=1 SV=2

MSNITDPQMWFDDLNFTGMPPAEDYSPCMLETETLNKYVVIAYALVFLLSLLGNSLV  
MLVILYSRVGRSVTDVYLLNLALADLLFALTLPWAASKVNGWIFGTFLCKVVSLLKEVN

FYSGILLACISVDRYLAIVHATRILTQKRHLVKFVCLGCWGLSMNLSLPFFLFRQAYHP  
NNSSPVCYEV LGNDTAKWRMVLRLPHTFGFIVPLFVMLFCYGFTLRTL FKAHMGQKHRA  
MRVIFAVVLIFLLCWL PYNLVLLADTL MRTQVIQESCERRNNIGRALDATEILGFLHSCL  
NP IYAFIGQNF RHGFLKILAMHGLVSKEFLARHRVTSYTSSSVNVSSNL

>sp|P32302|CXCR5\_HUMAN C-X-C chemokine receptor type 5 OS=Homo sapiens GN=CXCR5 PE=1 SV=1  
MNYPLTLEMDLENLEDLFWELDRLDNYNDTSLVENHLC PATEGPLMASFKAVFVPVAYSL  
IFLLGVIGNVLVLVILERHRQTRSSTETFLFHLAVADLLL VFILPFAVAEGSVGWVLTGTF  
LCKTVIALHKVNFYCSSL LACIAVDRYLAIVHAVHAYRHRRLLSIHITCGTIWLVGFLL  
ALPEILFAKVSQGHNNSLPRCTFSQENQAETHAWFTSRFLYHVAGFLLPMLVMGWCYVG  
VVHRLRQAQRRPQRQKAVRVAILVTSIFFLCWSPYHIVIFLDTLARLKAVDNTCKLNGSL  
PVAITMCEFLGLAHCCCLNPMLYTFAGVKFRSDLSRLLTKLGCTGPASLCQLFPSWRRSSL  
SESENATSLTTF

>sp|Q8WWM9|CYGB\_HUMAN Cytoglobin OS=Homo sapiens GN=CYGB PE=1 SV=1  
MEKVPGE MEIERRERSEELSEAERKAVQAMWARLYANCEDVGVA ILVRFFVNFPSAKQYF  
SQFKH MEDPLEMERSQ LRKHACRVMGALNTVVENLHDPDKVSSVLALVGKAHALKHKVE  
PVYFKILSGVILEVVAEEFASDFPPETQRAWAKLRGLIYSHVTAAYKEVGWVQQVPNATT  
PPATLPSSGP

>sp|043739|CYH3\_HUMAN Cytohesin-3 OS=Homo sapiens GN=CYTH3 PE=1 SV=2  
MDEGGGEGGGVPEDLSLEEREELDIRRRKKELIDDIERLKYEIAEVMTEIDNLSVEE  
SKTTQRNKQIAMGRKKFNMDPKKGIQFLIENDLLQSSPEDVAQFLYKGEGLNKTIVIGDYL  
GERDEFNIKVLQAFVELHEFADNLVQALRQFLWSFRLPGEAQKIDRMMEAFASRYCLCN  
PGVFQSTDTCYVLSFAIIMLNTSLHNHNVRDKPTAERFIAMNRGINEGGDLPEELLRNLY  
ESIKNEPFPKIPEDDNDLTHTFFNPDRGWLLKLGGGRVKTWKRRWFILTDNCLYFFEYT  
TDKEPRGIIPLENLSIREVEDPRKPNCFELYNPSHKGQVIKACKTEADGRVVEGNHVYR  
ISAPSPREEKEEWMKSIKASISRDPFYDMLATRKRRRIANKK

>sp|P35663|CYLC1\_HUMAN Cylicin-1 OS=Homo sapiens GN=CYLC1 PE=2 SV=2  
MSLPRLKVNIRTYDNSIPISSESRKSWNQKH FALT FPKPLQRGTNDKSRPLKSQITVTR  
HDKRKLEEGQKPAHKWIRHSFRKILQWPPIYTAAREQTPFRHLYTSKTHLKA EYKKS  
EKGGTPLKKDSKKKGGSYATNPESKQIVEEKTQRQNEADK TPLKSSHENEQSKSKSSSE  
TNPESQNSKTVSKNCSQKDKKDSKNSKKTNT EFLHTKNNPKDLKRSKTSNDPISEICSE  
NSLNVDFLMLVGQSDDESINFDALWRNYSQNN SKNYSKYTKYTKKDTKKN AKSSDAES  
EDSKDAKKDSKKVKKNVKKDDKKKDVKKDTESTDAESGDSKDERKDTKKDKKKLKKDDKK  
KDTKKYPESTDTESGDAKDARND SRNLKKASKNDDKKKDAKKITFSTDSESELESKESQK  
DEKKDKKDSKTDNKKSVKNDEESTDADSEPKGDSKKGKKDEKKGKKDSKKDDKKKDAKKN  
AESTEMESDLELKKDKKHSKEKKGSKKDIKKDARKDTESTDAEFDESSKTGFKTSTKIKG  
SDTESEESLYKPGAKKKIDESDGT SANSKMEGLESKRGRMSSSKKTTFNEKGEKASTGRV  
PPSREKPLPACPSLPSPKVRRLCWCKMPPPPPKPRYAPLPEAPWIHKLL

>sp|Q9NQC7|CYLD\_HUMAN Ubiquitin carboxyl-terminal hydrolase CYLD OS=Homo sapiens GN=CYLD  
PE=1 SV=1  
MSSGLWSQEKVTS PYWEERIFYLLLQECSVTDKQTQKLLKVPKGSIGQYIQDRSVGHSRI  
PSAKGKKNQIGLKILEQPHAVLFVDEKDVVEINEKFTELLLAITNCEERFSLFKNRNRLS  
KGLQIDVGCPVKVQLRSGEKFPGVVRFRGPLLAERTVSGIFFGVELLEEGRGQGFTDGV  
YQGKQLFQCEDECGVFVALDKLELIEDDDTALES DYAGPGDTMQVELPPLEINSRVSLKV  
GETIESGTVIFCDVLPKESLGYFVGVDMDNPIGNWDGRFDGVQLCSFACVESTILLHIN

DIIPALSESVTQERRPPKLAFMSRGVGDGSSSHNPKATGSTSDPGNRNRSELFYTLNG  
SSVDSQPQSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPPVNSLT TENRFHSLP  
FSLTKMPNTNGSIGHSPLSLSAQSVMEELNTAPVQESPPLAMPPGNSHGLEVGSLAEVKE  
NPPFYGVIRWIGQPPGLNEVLAGELEDEACAGCTDGTFRGTRYFTCALKKALFVKLKSCR  
PDSRFASLQPVSNQIERCNSLAFGGYLSEVVEENTPPKMEKEGLEIMIGKKKGIQGHYNS  
CYLDSTLFCFLAFSSVLDTVLLRPKEKNDVEYYSETQELLRTEIVNPLRIYGYVCATKIM  
KLKILEKVEAASGFTSEEKDPPEEFLNILFHHILRVEPLLKIRSAGQKVQDCYFYQIFME  
KNEKVGVP TIQQLLEWSFINSNLKFAEAPSCLIIQMPRFGKDFKLKKIFPSLELNITDL  
LEDTPRQCRICGGLAMYECRECYDDPDISAGKIKQFCKTCNTQVHLHPKRLNHKYNPVSL  
PKDLPDWDWRHGCIPCQNMELFAVLCIETSHYVAFVKYGDSDAWLFFDSMADRGGGQNG  
FNIPQVTPCPEVGEYLKMSLEDLHSLDSRRIQGCARRLLCDAYMCMYQSPTMSLYK

>sp|Q9UI36|DACH1\_HUMAN Dachshund homolog 1 OS=Homo sapiens GN=DACH1 PE=1 SV=3

MAVPAALIPPTQLVPPQPPISTSASSSGTTTSTSSATSSPAPSIGPPASSGPTLFRPEPI  
ASAAAAATVTSTGGGGGGGGGGSGGGGGSSNGGGGGGGGGSGNCNPNLAAASNGSGGG  
GGGISAGGVASSTPINASTGSSSSSSSSSSSSSSSSSSSSSSSSCGPLPGKPVYSTPSP  
VENTPQNECKMVDLRGAKVASFTVEGCELCIPLQAFDLFLKHLVGGLHTVYTKLRLEI  
TPVVCNVEQVRILRGLGAIQPGVNRCKLISRKDFETLYNDCTNASSRPRPPKRTQSVTS  
PENSHIMPHSVPLMSPGIIPPTGLTAAAAAAAATNAATAEAMKVKKIKLEAMSNYHAS  
NNQHGADESENGDMNSSVGS SDGSWDKETLPSSPSQGPQASITHPRMPGARSLPLSHPLNH  
LQQSHLLPNGLELPFMMMPHLIPVSLPPASVTMAMSQMNHLSTIANMAAAQVQSPPSR  
VETSVIKERVDPSPSPAPSL EEGRRPGSHPSHRSSSVSSSPARTESSDRIPVHQNGLS  
MNQMLMGLSPNVLPGPKEGDLAGHDMGHESKRMHIEKDETPLSTPTARDSLDKLSLTGHG  
QPLPPGFSPFLFPDGLSSIETLLTNIQGLLKVAIDNARAQEKQVQLEKTELKMDFLRER  
ELRETLEKQLAMEQKNRAIVQKRLKKEKKAKRKLQEALFETKRREQAEQTLKQAASTDS  
LRVLNDSLTPETIADRSGGRDARTI QDGRLYLKTTVMY

>sp|Q9NYF0|DACT1\_HUMAN Dapper homolog 1 OS=Homo sapiens GN=DACT1 PE=1 SV=2

MKPSPAGTAKELEPPAPARGEQRTAEPEGRWREKGEADTERQRTREERQATLAGLAELEY  
LRQRQELLVRGALRGAGGAGAAAPRAGELLGEAAQRSRLEEKFLEENILLRLKQLNCLRR  
RDAGLLNQLQELDKQISDLRLDVEKTSEEHLETDSRPSSGFYELSDGASGSLSNSNSVF  
SECLSSCHSSTCFCSPLEATLSLSDGCPKSADLIGLLEYKEGHCEDQASGAVCRSLSTPQ  
FNSLDVIADVNPQYQCDLVSKNGNDVYRPSPLHAVAVQSPMFLCLTGNPLREEDRLGN  
HASDICGSELDAVKTDSSLSPSSSLWSASHPSSSKKMDGYILSLVQKKTHPVRTNKPRT  
SVNADPTKGLLRNGSVCVRAPGGVSQGNVNLKNSKQACLPSSGIPSLNNGTFSPPKQWS  
KESKAEQAESKRVPLEPGCPSGAASDLQSKHLPKTAKPASQE HARCSAIGTGESPKESAQ  
LSGASPKESRGPAPPQENKVQPLKKMSQKNSLQGVPPATPPLLSTAFPVEERPALDF  
KSEGSSQSLEEHLVKAQFIPGQQPSVRLHRGHRNMGVVKNSSLKHRGPALQGLENLPT  
VREKTRAGSKKCRFPDDLDTNKKLKKASSKGRKSGGGPEAGVPGRPAGGGHRAHGH  
GREAVVAKPKHKRTDYRRWKSSAEISYEEALRRARRGRRENVGLYPAPVPLPYASPYAYV  
ASDSEYSAECESLFHSTVVDTSEDEQSNYTTNCFGDSESSVSEGEFVGESTTTSDSEESG  
GLIWSQFVQTLPIQTVTAPDLHNHPAKTFVKIKASHNLKKKILFRSGSLKLMTTV

>sp|P00156|CYB\_HUMAN Cytochrome b OS=Homo sapiens GN=MT-CYB PE=1 SV=2

MTPMRKTNPLMKLINHSFIDLPTPSNISAWWNFGSLLGACLILQITGLFLAMHYSPDAS  
TAFSSIAHITRDVNYGWIIRYLHANGASMFFICLFLHIGRGLYYGSFLYSETWNIGIILL  
LATMATAFMGYVLPWGQMSFWGATVITNLLSAIPYIGTDLVQWIWGGYSVDSPTLTRFFT

FHFILPFI AALATLHLLFLHETGSNNPLGITSHSDKITFHPYYTIKDALGLLLFLLSLM  
TLTLFSPDLLGDPDNYTLANPLNTPPHIKPEWYFLFAYTILRSVPNKLGGVLALLLSILI  
LAMIPILHMSKQSQMMFRPLSQSLYWLLAADLLILTWIGGQPVSYPTIIGQVASVLYFT  
TILILMPTISLIENKMLKWA

>sp|P53355|DAPK1\_HUMAN Death-associated protein kinase 1 OS=Homo sapiens GN=DAPK1 PE=1  
SV=6

MTVFRQENVDDYYDTGEELGSGQFAVVKCKREKSTGLQYAAKFIKKRRTKSSRRGVSRED  
IEREVSILKEIQHPNVI TLHEVYENKTDVILILELVAGGELFDFLAEKESL TEEEA TEFL  
KQILNGVYYLHSLQIAHFDLKPENIMLLDRNVKPRIKI IDFGLAHKIDFGNEFKNIFGT  
PEFVAPEIVNYEPLGLEADMWSIGVITYILLSGASPFLGDTKQETLANVSAVNYEFEDEY  
FSNTSALAKDFIRRLLVKDPKKRMTIQDSLQHPWIKPKDTQQALSRKASAVNMEKFKKFA  
ARKKWKQSVRLISLCQRLSRSFSLRSNMSVARSDDTLDEEDSFVMKAI IHAINDDNVPG  
QHLLGSLSNYDVNQPNKHGTPPLLIAAGCGNIQILQLLIKRGSRIDVQDKGGSNAVYWAA  
RHGHVDTLKFLSENKCPLDVKDKSGEMALHVAARYGHADVAQLLCSFGSNPNIQDKEET  
PLHCAAWHGYYSVAKALCEAGCNVNIKNREGETPLLTASARGYHDIVECLAEHGADLNAC  
DKDGHIALHLAVRRCQMEVIKTLLSQGCFVDYQDRHGNTPLHVACKDGNMPIVVALCEAN  
CNLDISNKYGRTPHLAANNGILDVVRYLCLMGASVEALTTDGKTAEDLARSEQHEHVAG  
LLARLRKDLTHRGFLFIQQLRPTQNLPRIKLKLFHSGSGKTTLVESLKCGLLRSFFRRRR  
PRLSSTNSSRFPPSPLASKPTVSVSINNLYPGCENVSVRSRSMFEPGLTKGMLEVFVAP  
THHPHCSADDQSTKAIDIQNAYLNGVGFDFSVWEFSGNPVVFCCYDYFAANDPTS IHVVVF  
SLEEPYEIQLNQVIFWLSFLKSLVPVEEPIAFGGKLNPLQVVLVATHADIMNVPRPAGG  
EFGYDKDTSLLKEIRNRFGNDLHISNKLFLVDAGASGSKDMKVLRNHLQEIRSQIVSVCP  
PMTHLCEKIIISTLPWRKLNPNQLMSLQQFVYDVQDQLNPLASEEDLRRIAQQLHSTGE  
INIMQSETVQDVLLDPRWLCTNVLGKLLSVETPRALHHYRGYTVEDIQRLVPDS DVEE  
LLQILDAMDICARDLSSGTMVDVPALIKTDNLHRSWADEEDEVVYGGVRIVPVEHLTPF  
PCGIFHKVQVNLCRWIIHQSTEGDADIRLWVNGCKLANRGAELLVLLVNHGQGIQVQVRG  
LETEKIKCCLLLDSVCSTIENVMATTLPGLLTVKHYSPPQLREHHEPVMIYQPRDFRA  
QTLKETSLTNTMGYKESFSSIMCFGCHDVYSQASLGMDIHASDLNLLTRRKLRLDPP  
DPLGKDWCLLAMNLGLPDLVAKYNTSNGAPKDFLPSPLHALLREWTTYPESTVGTLM SKL  
RELGRRAADFLKASSVFKINLDGNGQEAYASSCNSGTSYNSISSVVS

>sp|Q9UIK4|DAPK2\_HUMAN Death-associated protein kinase 2 OS=Homo sapiens GN=DAPK2 PE=1  
SV=1

MFQASMRSPNMEPFKQKVEDFYDIGEELGSGQFAIVKKCKREKSTGLE YAAKFIKKRQSR  
ASRRGVSREEIEREVSILRQVLHNVITLHDVYENRTDVVILELVSGGELFDFLAQKES  
LSEEEATSFIKQILDGVNYLHTKKIAHFDLKPENIMLLDKNIPPHIKLIDFGLAHEIED  
GVEFKNIFGTPEFVAPEIVNYEPLGLEADMWSIGVITYILLSGASPFLGDTKQETLANIT  
AVSYDFDEEFFSQSTELAKDFIRKLLVKETRKRLLTIQEALRHPWITPVDNQAMVRRESV  
VNLENFRKQYVRRRWKLSFSIVSLCNHLTRSLMKKVHLRPDEDLRNCESDTEEDIARRKA  
LHPRRSSTS

>sp|A6NH13|DAS1\_HUMAN Putative uncharacterized protein DNAJC9-AS1 OS=Homo sapiens  
GN=DNAJC9-AS1 PE=2 SV=2

MPGGDTTPEEAAAPSCAGYNPGLLLFRAQKAQGACVTSTEGAWPRRASALYGRKMRCGE  
SGAGPDPRSNSAEVSSSQPALASKSQSKWGPTSNNPRGALTTTEFEMAGNRSQNIKHKQT  
ALIAIPMSSQTPRMLGRPRNQGLYPQP

>sp|Q13117|DAZ2\_HUMAN Deleted in azoospermia protein 2 OS=Homo sapiens GN=DAZ2 PE=1 SV=3

MSAANPETPNSTISREASTQSSSAAASQGWLPEGKIVPNTVVFVGGIDARMDTEIGSCF  
GRYGSVKEVKIITNRTGVSQGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGPARKQKLC  
ARHVQPRPLVVNPPPPQFQNVWRNPNTETYLQPQITPNPVTQHVVQAYSAYPHSPGQVIT  
GCQLLVYNYQEYPTYPDSAFQVTTGYQLPVYNYQFPAYPRSPFQVTAGYQLPVYNYQAF  
PAYPNSPFQVATGYQFPVYNYQFPAYPSSPFQVTAGYQLPVYNYQAFPAYPNSPFQVAT  
GYQFPVYNYQAFPAYPNSPVQVTTGYQLPVYNYQAFPAYPNSPVQVTTGYQLPVYNYQAF  
PAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTT  
GYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAF  
PAYPSSPFQVTTGYQLPVYNYQAFPAYPNSAVQVTTGYQFHVYNYQMPPQCPVGEQRRNL  
WTEAYKWWYLVCLIQRRD

>sp|Q15038|DAZP2\_HUMAN DAZ-associated protein 2 OS=Homo sapiens GN=DAZAP2 PE=1 SV=1

MNSKGQYPTQPTYVQPPGNPVYPQTLHLPQAPPYTDAPPAYSELYRPSFVHPGAATVPT  
MSAAFPGASLYLPMASQSVAVGPLGSTIPMAYYPVGPIYPPGSTVLVEGGYDAGARFGAGA  
TAGNIPPPPPGCPNAAQLAVMQGANVLVTQRKGNFFMGSGDGGYTIW

>sp|Q9H1M4|DB127\_HUMAN Beta-defensin 127 OS=Homo sapiens GN=DEFB127 PE=1 SV=1

MGLFMIIAILLFQKPTVTEQLKKCWNNYVQGHCRIKRVNEVPEALCENGRYCCLNIKEL  
EACKKITKPPRPKATLALTLQDYVTIIEENFPSLKTQST

>sp|Q30KQ1|DB133\_HUMAN Beta-defensin 133 OS=Homo sapiens GN=DEFB133 PE=3 SV=1

MKIHVFLFVLFVFLVPIATRVKCAVKDTYSCFIMRGKCRHECHDFEKPIGFCTKLNANCY  
M

>sp|Q30KP8|DB136\_HUMAN Beta-defensin 136 OS=Homo sapiens GN=DEFB136 PE=3 SV=1

MNLCLSALLFFLVILLPSGKGMFGNDGVKVRTCTSQKAVCFFGCPPGYRWIAFCHNILSC  
CKNMTRFQPPQAKDPWVH

>sp|Q8NFT6|DBF4B\_HUMAN Protein DBF4 homolog B OS=Homo sapiens GN=DBF4B PE=1 SV=1

MSEPGKGDDCLESSMAESRLRAPDLGVSRLGKQKNSPGARKHPFSGKSFYLDLPAG  
KNLQFLTGAIQQLGGVIEGFLSKEVSYIVSSRREVKAESSGKSHRGCPSPSPSEVRVETS  
AMVDPKGSHPRSPRPVDSVPLSRGKELLQKAIRNQGSISGGSGGSSLLTNARSWGVR  
ILHVDEMMMHVQQLSLASLCVKKQPKKPEGTCPAAESRTRKVARLKAPFLKIEDES RKF  
RPFHHQFKSFPEISFLGPKDASPFEAPTTLGSMHHTRESKDGEPSPRSAHTMPRRKKG  
CECCQEAFEELHVHLQSAQHRSFALEAHLAIEVDRIIAQLSHSFADIPFQAGLPRWSGSP  
ASDCDPLCPETLHPHQSPHRAASPRIRKEDSCQASVTQGRAAGQQRWTESLDGVMGPPA  
SHTCVSATTLPALPKGSREQGCLCPCPASFTQSHLVTSLALLPGEWSPAEDMPLHPSQE  
NSFAPADIPVKGPLLFPEARPWMSARCWVRPFVFTWGCLIPHDTPHHEEVSPCCLR  
LGYLYLLLTQSLWCRVRVPSLSTAGPIPRTSHPCTLAFPSYLNHDHDLGHLCAKPKQGWNT  
PQPFLHCGFLAVDSG

>sp|Q9H9R9|DBND1\_HUMAN Dysbindin domain-containing protein 1 OS=Homo sapiens GN=DBNDD1  
PE=1 SV=2

MEPPEGAGTGEIVKEAIEVPAALGVPAQGTGDNGHTPVEEEVGGIPVPAPGLLQVTERRQ  
PLSSVSSELEVHFDLLDLTELTDMSDQELAEVFADSDDENLNTESPAGLHPLPRAGYLRSP  
SWTRTRAEQSHEKQPLGDPERQATVLDFTLTVERPQED

>sp|Q9UK59|DBR1\_HUMAN Lariat debranching enzyme OS=Homo sapiens GN=DBR1 PE=1 SV=2

MRVAVAGCCHGELDKIYETLALAERRGPGVDLLCCGDFQAVRNEADLRCAVPPKYRH  
MQTFYRYSGEKKAPVLTFLIGGNHEASNHLQELPYGGWVAPNIYYLGLAGVVKYRGVRI

GGISGIFKSHDYRKGFECPPYNSSTIRSIYHVRNIEVYKLKQLKQPIDIFLSHDWPRSI  
YHYGNKKQLLKTSSFRRQEEVENNTLGSPAASELLEHLKPTYWFSAPHLHVKAALMQHQAK  
DKGQTARATKFLALDKCLPHRDFLQILEIEHDPSPADYLEYDIEWLTILRATDDLINVTG  
RLWNMPENGLHARWDYSATEEGMKEVLEKLNHDLKVPNCFSVTAACYDPSKPQTQMQLI  
HRINPQTTEFCAQLGIIDINVRLQKSKEEHHVCGEYEEQDDVESNDSGEDQSEYNTDTSA  
LSSINPDEIMLDEEEDEDSIVSAHSGMNTPSVEPSDQASEFSASFSDVRILPGSMIVSSD  
DTVDSTIDREGKPGGTVESNGEDLTKVPLKRLSDEHEPEQRKKIKRRNQAIYAAVDDDD  
DDAA

>sp|Q13409|DC112\_HUMAN Cytoplasmic dynein 1 intermediate chain 2 OS=Homo sapiens  
GN=DYNC1I2 PE=1 SV=3

MSDKSELKAELERKKQRLAQIREKKRKEEERKKKETDQKKEAVAPVQEEEDLEKKRREA  
EALLQSMGLTPESP I VFSEYWPPPMSPSSKSVSTPSEAGSQDSGDGAVGSRTLHWDTDP  
SVLQLHSDSDLGRGPIKLGMAKITQVDFPPREIVTYTKETQTPVMAQPKEDDEEDDDVVA  
PKPPIEPEEEKTLKKDEENDSKAPPHELTEEEKQQILHSEEFLSFFDHSTRIVERALSEQ  
INIFFDYSGRDLEKEGEIQAGAKLSLRQFFDERWSKHRVVSCLDWSSQYPELLVASYN  
NNEDAPHEPDGVALVWNMYKKTTP EYVFHCQSAVMSATFAKFHPNLVVG GTYSGQIVLW  
DNRSNKRTPVQRTPLSAAAHTPVYCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQD  
SMELVHKQSKAVAVTSMSPVGDVNNFVVGSEEGSVYTACRHGSKAGISEMFEGHQGPIT  
GIHCHAAVGAVDFSHLFVTSSFDWTVKLWTTKNNKPLYSFEDNADYVYDVMWSPTHPALF  
ACVDGMGRDLWNLNDTEVPTASISVEGNPALNRVRWTHSGREIAGDSEGQIV IYDVG  
EQIAVPRNDEWARFGRTLAEINANRADEEEEAATRIPA

>sp|A6NGE4|DC8L1\_HUMAN DDB1- and CUL4-associated factor 8-like protein 1 OS=Homo sapiens  
GN=DCAF8L1 PE=2 SV=1

MSHQEGSTGGLPDLVTESLFSSPEEQSGVAAVTAASSDIEMAATEPSTGDGGDTRDGGFL  
NDASTENQNTDESSEDVELESMGEGLFYPLVGEETEREEEEEMEEEGEEEEQPRMC  
PRCGGTNHDQCLLDEEDQALEEWISSETSALPRSRWQVLTALRQRQLGSSARFVYEACGAR  
TFVQRFRLLQYLLGSHAGSVSTIHFNRQGRTRLASSGDDLRIVWDWVRQKPVLFNFGHDI  
NVIQAKFFPNCGDSTLAMCGHDGQVRVAELINASYCENTKRVAKHRGPAHELALEPDSPY  
KFLTSGEDAVVFTIDLRQDRPASKVVVTRENDKKVGLYTISMNPANIYQFAVGGHDQFVR  
IYDQRRIDKKENNGVLKKFTPHHLVYCDFPTNITCVVYSHDGTELLASYNDEDIYLFNSS  
LSDGAQYVKRYKGHRNNDTIKCVNFYGPRSEFVVS GSDCGHVFFWEKSSSQIIQFMEGDR  
GDIVNCLEPHYPYLPVLTATGLDQHVRIWTPATAKTATELTGLKDV I KKNKQERDEDNLNYT  
DSFDNRMLRFFVRHLLQRAHQPGWRDHGAEPDEEELDESSSTSDTSEEEGQDRVQCIPS

>sp|Q9C098|DCLK3\_HUMAN Serine/threonine-protein kinase DCLK3 OS=Homo sapiens GN=DCLK3  
PE=2 SV=2

MGKEPLTLKSIQVAVEELYPNKARALTLAQHSRAPSPRLRSRLFSKALKGDHRCGETETP  
KSCSEVAGCKAAMRHQGGKIPEELSLDDRARTQKKWGRGKWEPEPSSKPPREATLEERHAR  
GEKHLGVEIEKTSGEIIRCEKCKRERELQQSLERERLSLGTSELDMGKGPMYDVEKLVRT  
RSCRRSPEANPASGEEGWKGDHRSSPRNPTQELRRPSKSMDDKEDRGPEQESHAQGAA  
KAKKDLVEVLPVTEEGLREVKKDTRPMSRSKHGGWLLREHQAGFEKLRRTRGEEKEAEKE  
KKPCMSGGRRMTLRDDQPAKLEKEPKTRPEENKPERPSGRKPRPMGIIAANVEKHYETGR  
VIGDGNFAVVKECRHRETRQAYAMKIIDKSRLKGKEDMVDSEILIIQSLSHPNIVKLHEV  
YETDMEIYLILEYVQGGDLFDIIIESVKFPEPDAA LMIMDLCKALVHMHDKSIVHRDLKP  
ENLLVQRNEDKSTTLKLADFGLAHVVRPIFTVCGTPTYVAPEILSEKGYGLEVDMWAAG



VILYILLCGFPFRSPERDQDELFNIIQLGHFEFLPPYWDNISDAAKDLVSRLLVDPKK  
RYTAHQVLQHPWIETAGKTNTVKRQKQVSPSSEGHFRSQHKRVVEQVS

>sp|Q8IWE4|DCNL3\_HUMAN DCN1-like protein 3 OS=Homo sapiens GN=DCUN1D3 PE=1 SV=1

MGQCVTCKKNPSSTLGSKNGDREPSNKSRRGAGHREEQVPPCGKPGGDILVNGTKKAE  
AATEACQLPTSSGDAGRESKSNAEESLQRLEELFRRYKDEREDAILEEGMERFCNDLCV  
DPTEFRVLLLAWKFQAATMCKFTRKEFFDGCKAISADSIDGICARFPSLLTEAKQEDKFK  
DLRYFTFQFGLDSEEGQRSLHREIAIALWKLVTQNNPPVLDQWLNFLTENPSGIKGISR  
DTWNMFLNFTQVIGPDLSNYSEDEAWPSLFDTFVEWEMERRKREGEGRGALSSGPEGLCP  
EEQT

>sp|Q9BTE7|DCNL5\_HUMAN DCN1-like protein 5 OS=Homo sapiens GN=DCUN1D5 PE=1 SV=1

MPVKKKRKSPGVAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAG  
PDEVVGPEGMEKFCEDIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEK  
LQNKFDLRSQNLDISSFKNIYRYAFDFARDKDQRSLDIDTAKSMLALLLGRTWPLFSVF  
YQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLDEFVEWQKVRQTS

>sp|P17538|CTRB1\_HUMAN Chymotrypsinogen B OS=Homo sapiens GN=CTRB1 PE=2 SV=2

MASLWLLSCFSLVGAAGCGVPAIHPVLSGLSRIVNGEDAVPGSWPWQVSLQDKTGFHFC  
GGSLISEDWVVTAACHGVRTSDVVVAGEFDQGSDEENIQVLKIAKVFNPKFSILTVNND  
ITLLKLATPARFSQTVSAVCLPSADDDFPAGTLCATTGWGKTKYNANKTPDKLQQAALPL  
LSNAECKKSWGRRITDVMICAGASGVSSCMGDSGGPLVCQKDGAWTLVGIVSWGSDTCST  
SSPGVIYARVTKLIPWVQKILAAAN

>sp|Q86XM0|CTSRD\_HUMAN Cation channel sperm-associated protein subunit delta OS=Homo sapiens GN=CATSPERD PE=1 SV=3

MLMLMLVAAVTMWLRLPLVTAQLCRSRTVRTGKVFNLIQDVQGDRLYFHPTTTRLIKHPCE  
KNIALYLKGKQVFFTMDFETSLPFTIPTSMQVGVPEVTSAHFAGSLLLLVVDQKVIYID  
YENNSWSMSLGIKHPVTHVSGDNCCYTGSLFCVHVSNLVFAYFRGDQISQTYIYYSNTGG  
FSFWKYHYDRQAEIIGSLGGIFHFFSLSQVAMLVVNQKGGMFKYSDHPLNRSFGLSFDYN  
GTLDILIAPGQRGILLWFENSLLFSHNAGQLVDTVVRVKKGDQTLFSSIFEAKITIHNIA  
VTENELAVITREDNLYYGNLGIVPSSIIFADQYIWEDEVLMFRSPGTLEILTPLRDTA  
FPAFDQKCLVNIQALLMDPELVHGKCKIEFLTGEFIYRMYTIDMHSQLELTASLIPQPG  
TSLIPLVMVSNPHSLGFQATFYENGYTSDGNTKYKLDIFLKQQQHWGRDTSNFTSSLKKA  
TMSTLTVDIANKEISCVDIKPLSTLISVGCDDLKKIVIQNKVSACSMGILDPLTLQDNYS  
FIIEKEFYDPGFQGGQSSDLHFVYSYQQLGCPLLVYYDTLWKPVELWRKDSFQEVIDA  
EYVLLLEVNGQFSYSYSLTAQSAMCTSQPQNWTMIKEFGGPFWNRENYVSCHDPNNAP  
LRWPDVQYQILGGRATANQIIFGHNGFYVFYISIVDPYYSYCQLETIFSIVYGAFFVQLV  
SAGVVILLIISILGSVWLAYKTPKLLRTARGRRIKKCATQLCRRCKTVCQFRASATARA  
GTEPPGRHRTPHGGRSDH

>sp|B9A014|CU140\_HUMAN Uncharacterized protein C21orf140 OS=Homo sapiens GN=C21orf140 PE=2 SV=1

MPRFASPLLRNVIIRSQFDGIKRRQCLQYLKTLRTLQYDGFKTVYFGETNIPESLVTGED  
ISDGYFIQTPTWCIVHAAGSQGWVPWKYRVFLRDELICKQEDSLFSEFCDVVRKAYGKCV  
IVVKERRQQEEQRPKEDREAEGQFYIPTVISLASIMCCPEVAKSCGHELLSLSPPCNYLN  
PLDSAWSSLKWFIIINRNEFCLQSIDSGYSYQCILFSNLISKGIERINASKWRTLTSKVR  
RWENYYLGKFS

>sp|O60494|CUBN\_HUMAN Cubilin OS=Homo sapiens GN=CUBN PE=1 SV=5

MMNMSLPFLWSLLTLLIFAEVNGEAGELELQRQKRSINLQQPRMATERGNLVFLTGSAQN  
IEFRTGSLGKIKLNDEDLSECLHQIQKNKEDI IELKGS AIGLPQN ISSQIYQLNSKLVDL  
ERKFQGLQQTVDKKVCSSNPCQNGGTCLNLHDSFFCICPPQWKGPLCSADVNECEIYSGT  
PLSCQNGGTCVNTMGSYSCHCPPETYGPQCASKYDDCEGGSVARCVHGICEDLMREQAGE  
PKYSCVCDAGWMFSPNSPACTLDRDECSFQPGPCSTLVQCFNTQGSFYCGACPTGWQGNG  
YICEDINECEINNGGCSVAPPEVCVNTPGSSHCQACPPGYQGDRVCTLT DICSVSNGGC  
HPDASCSTLGLSLPLCTCLPGYTGNGYGPNQCVQLSNICLSHPCLNGQCIDTVSGYFCKC  
DSGWTGVNCTENINECLSNPCLNGGTCVDGVDSFSCECTRLWTGALCQVPQQVCGESLSG  
INGSFSYRSPDVGYVHDVNCFWVIKTEMGKVLRI TFTFFRLESMDNCPHEFLQVYDGDSS  
SAFQLGRFCGSSLPHELLSSDNALYFHL YSEHLRNGRGFTVRWETQQPECGGILTGPYGS  
IKSPGYPGNYPGRDCVWIVVTS PDLLVTF TFGTLSLEHHDDCNKDYLEIRDGPLYQDPL  
LGKFCTTFSVPPLQTGTGPFARIHFHSDSQISDQGFHITYLTSPSDLRCGGNYTDPEGELF  
LPELSGPFTHTRQCVYMMKQPQGEQIQINFTHVELQCQSDSSQNYIEVRDGETLLGKVCG  
NGTISHIKSITNSVWIRFKIDASVEKASFRAVYQVACGDEL TGEGVIRSPFFPNVYPGER  
TCRWTIHQPQSQVILLNFTVFEIGSSAHCETDYVEIGSSSILGSPENKKYCGTDIPSFIT  
SVYNFLYVTVFKSSSTENHGFMKFS AEDLACGEILTESTGTIQSPGHPNVYPHGINCTW  
HILVQPNHLIHLMFETFHLEFHYNCTNDYLEVYD TDSETSLGRYCGKSIPPSLTSSGNSL  
MLVFVTDSDLAYEGFLINYE AISAATACLQDYTD DLGTFTSPNFPNNYPNNWECIYRITV  
RTGQLIAVHFTNFSLEE AIGNYYTDFLEIRDGGYEKSPLLGIFYGSNLPPTII SHSNKLW  
LKFKSDQIDTRSGFSAYWDGSS TCGGNLTSSGTFISP NYPMPIYHSSECYWWLKSSHG  
SAFELEFKDFHLEHHPNCTLDYLA VYDGPSSNSHLLTQLCGDEKPLIRSSGDSMFIKLR  
TDEGQQGRGFKAEYRQTCENVVIVNQTYGILESIGYPNPYSENQHCNWTIRATTGNTVNY  
TFLAFDLEHHINCSTDYLELYDGP RQMGRYCGVDLPPPGSTTSSKLQVLLLT DGVGRREK  
GFQMWFVYVYCGGELSGATGSFSSPGFPNRYPPNKECIWYIRTDPGSSIQLTIHDFDVEY  
HSRCNFDVLEIYGGPDFHSPRIAQLCTQRSPENPMQVSSTGNELAIRFKTDLS INGRGFN  
ASWQAVTGGCGGIFQAPSGEIHSPNYPSPYRSNTDCSWVIRVDRNHRVLLNFTDFDLEPQ  
DSCIMAYDGLSSTMSRLARTCGREQLANPIVSSGNSLFLRFQSGPSRQNRGFRAQFRQAC  
GGHILTSSFDTVSSPRFPANYPNNQNC SWIIQAQPPLNHITLSFTHFELERSTTCARFV  
EILDGGHEDAPLRGRYCGTDMHPITSFSSALTLRFVSDSSISAGGFHTTVTASVSACGG  
TFYMAEGIFNSPGYPD IYPPNVECVWNIVSSPGNRLQLSFISFQLEDSQDCSRDFVEIRE  
GNATGHLVGRYCGNSFPLNYSSIVGHTLWVRFISDGS GSGTGFGATFMKIFGNDNIVGTH  
GKVASFPWPENYPHNSNYQWTVNVNASHVVHGRILEMDIEETQNCYYDKLRIYDGPSIHA  
RLIGAYCGTQTESFSSTGNSLTFHFYSDSSISGKGFLLEWFAVDAPDGVLP TIAPGACGG  
FLRTGDAPVFLFSPGWPDSYSNRVDCTWLIQAPDSTVELNILSLDIESHRTCAYDSL VIR  
DGDNNLAQQLA VLCGREIPGPIRSTGEYMFIRFTSDSSVTRAGFNASFHKSCGGYLHADR  
GIITSPKYPETYP SNLNC SWHVLVQSGLTIAVHFEQPFQIPNGDSSCNQGDYLVLRNGPD  
ICSPPLGPPGGNGHFCGSHASSTLFTSDNQMFVQFISDHSNEGQGFKIKYEAKSLACGGN  
VYIHDADSAGYVTSNPHPNYPHADCIWILAAPPETRIQLQFEDRFDIEVTPNCTSNYL  
ELRDGVDS DAPILSKFCGTSLPSSQWSSGEVMYLRFSDNSP THVGFKAKYSIAQCGRV  
PGQSGVVESIGHPTLPYRDNLCEWHLQGLSGHYLTISFEDFNLQNSSGCEKDFVEIWDN  
HTSGNILGRYCGNTIPDSIDTSSNTAVVRFVTDGSVTASGFRLRFESSMEECGDLQGS I  
GTFTSPNYPNPNPHGRICEWRITAPEGRRI TLMFNRLRLATHPSCNNEHVIVFNGIRSNS  
PQLEKLCSSVNVSNEIKSSGNTMKVIFFTDGS RPYGGFTASYTSSEDA VCGGSLPNTPEG  
NFTSPGYDGVNRYSRNLNCEWTL SNPNQGNSSISIH FEDFYLESHQDCQFDVLEFRVGDA

DGPLMWRLCGPSKPTLPLVIPYSQVWIHFVTNERVEHIGFHAKYSFTDCGGIIGDSGVI  
TSPNYPNAYDSLTHCSSLLEAPQGHTITLTFSDFDIEPHTTCAWDSVTVRNGGSPESP  
GGYCGNSNPRTIQSGSNQLVVTNSDHSLLQGGGFYATWNTQTLGCGGIFHSDNGTIRSPH  
WPQNFNPENSRCSWTAITHKSKHLEISFDNNFLIPSGDGGCQNSFVKVWAGTEEVDKALLA  
TGCGNVAPGPVITPSNTFTAVFQSQAQGFSAFVSRCGSNFTGPSGYIISPYPKQY  
DNNMNCTYVIEANPLSVVLLTFVSFHLERSAVTGSCVNDGVHIIIRGYSVMSTPFATVCG  
DEMPAPLTIAGPVLLNFYSNEQITDFGFKFSYRIISCGGVFNFSGGIITSPAYSADYPN  
DMHCLYITIVSDDKVIELKFSDFDVPSTSCSHDYLAIDGANTSDDLKFKCGSKRPPN  
VKSSNNSMLLVFKTDSFQTAQGWKMSFRQTLGPQQGCGGYLTGSNNTFASPDSDSNGMYD  
KNLNCVWIIIIAPVNVKVIHLTFNTFALEAASTRQRCLYDYVKLYDGDSENANLAGTFCGST  
VPAPFISSGNFLTQFISDLTLEREGFNATYTIMDMPCGGTYNATWTPQNISSPNSSDPD  
VPFSICTWVIDSPHQQVKITVWALQLTSQDCTQNYLQLQDSPQGHGNSRFQFCGRNASA  
VPVFYSSMSTAMVIFKSGVVNRNSRMSFTYQIADCNRDYGKAFGNLRSPGWPNDYDNDKD  
CTVTLTAPQNHITISLFFHSLGIENSVECRNDFLEVRNGSNSNSPLLKGYCGTLLPNPVFS  
QNNELYLRFKSDSVTSRDRGYEIIWTSSPSGCGGTLYGDRGSFTSPGYPGTYPNNTYCEWV  
LVAPAGRLVTINFYFISIDDPGDCVQNYLTLYDGNASSPSSGPYCGGDTSIAPFVASSN  
QVFIKFHADYARRPSAFRLTWDS

>sp|Q9H467|CUED2\_HUMAN CUE domain-containing protein 2 OS=Homo sapiens GN=CUEDC2 PE=1  
SV=1

MELERIVSAALLAFVQTHLPEADLSGLDEVIFSIVLVGLDLGPSGPSEENFDMEAFTEM  
MEAYVPGFAHIPRGITGMMQKLSGQLSDARNKENLQPQSSGVQGVPIISPEPLQRPEML  
KEETRSSAAAAADTQDEATGAEEELLPGVDVLEVFPTCSVEQAQWVLAKARGDLEAVQ  
MLVEGKEEGPAAWEGPNQDLPRRLRGPQKDELKSFILQKYMVDSAEQKIHPRMAPKEA  
PKKLIRYIDNQVSTKGERFKDVRNPEAEEMKATYINLKPARKYRFH

>sp|Q9HAI6|CX021\_HUMAN Uncharacterized protein CXorf21 OS=Homo sapiens GN=CXorf21 PE=2  
SV=1

MLSEGYLSGLEWYNDIHWSCASYNEQVAGEKEEETNSVATLSYSSVDETQVRSLYVSCKS  
SGKFISSVHSRESQHSRSQRVTVLQTNPNPVFESPNLAAVEICRDASRETYLVPSSCKSI  
CKNYNDLQIAGGQVMAINSVTTDFPSESSFYEGPLLKSSEIPLPMEDSISTQPSDFPQKP  
IQRYSSYWRITSIKESSLQMNPISNAVLNEYLEQKVVELYKQYIMDTVFHDSSTQIL  
ASELIMTSVDQISLQVSREKNLETSKARDIVFSRLLQLMSTEITEISTPSLHISQYSNVN  
P

>sp|Q8TB03|CX038\_HUMAN Uncharacterized protein CXorf38 OS=Homo sapiens GN=CXorf38 PE=1  
SV=1

MVSELAARLNCAEYKNWVKAGHCLLLLRSLQGFVGREVLSFHRGLLAAAPGLGPRAVC  
RGGSRCSPRARQFQPQCQVCAEWKREILRHHVNRNGDVHWGNCRPGRWPVDAWEVAKAFM  
PRGLADKQGPEDCAVALLSLINSCDHFVDRKKVTEVIKCRNEIMHSSEMKVSSTWLRD  
FQMKIQNFLNEFKNIPEIVAVYSRIEQLLTSWAVHIPEEDQRDGCCEMGTYLSESQVN  
EITEMQLLKEKLQEIYLAEEQEVLPPEELSNRLEVVKFELRNEDLRNGLTEDMQKLDSLC  
LHQKLDSEQEPGRQTPDRKA

>sp|Q96LI9|CX058\_HUMAN Putative uncharacterized protein CXorf58 OS=Homo sapiens  
GN=CXorf58 PE=2 SV=2

MNRSSNVPRKGILKSGTRSLQKVRVHFANARNARLLSMLKDISAQIIQRAWLSHTNKM  
IFRLKHAICAAEFYVTHEILKKVAPLEAKLIKDPTMQCKIRFRFRGETFPFIVFKIFL

HTDGHGYKYFSGKNVLPSSKAVIDDACKLMGERKFHRIIMEDERIFPKSKVTDIMDVVTM  
QDYVQYRSFFDEAPAFSGGRNNSWRKLNLENIPRTMLMYDIVHYSESGVISNRLRNEMKF  
LLQRPVTQEIHKHQLRIVSEIRGPYLTVPYLYRPYKQQNQVKFLGRRSKQAQMKVEKMRK  
VYLAKEKNTSEVTEPKTGPSTGKDNHYLHLSIF

>sp|P02775|CXCL7\_HUMAN Platelet basic protein OS=Homo sapiens GN=PPBP PE=1 SV=3

MSLRDTPSCNSARPLHALQVLLLLSLLLTALASSTKGQTKRNLAKGKEESLSDLYAE  
LRMCICKTTSGIHPKNIQSLEVIGKGTHCNQVEVIATLKDGRKICLDPDAPRIKKIVQKK  
LAGDESAD

>sp|P61073|CXCR4\_HUMAN C-X-C chemokine receptor type 4 OS=Homo sapiens GN=CXCR4 PE=1 SV=1

MEGISIYTSNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI  
LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL  
YSSVLILAFISLDRLAIVHATNSQRPRKLLAEKVYVGVWIPALLLTIPDFIFANVSEA  
DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIIISKLSHSGHKRKRKALKT  
TVILILAFFACWLPPYIGISIDSFILLEIIKQGEFENTVHKWISITEALAFFHCCLNPI  
LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS

>sp|Q96KN9|CXD4\_HUMAN Gap junction delta-4 protein OS=Homo sapiens GN=GJD4 PE=2 SV=1

MEGVLLGLFIITLNCNVTMVGKLWVFLTMLLRMLVIVLAGRPVYQDEQERFVCNTLQPG  
CANVCYDVFSVSHLRFWLIQGVCVLLPSAVFSVYVLRGATLAALGPRRCPPDPREPASG  
QRRCPRPFGERGGLQVPDFSAGYIIHLLRLTLEAAFGALHYFLFGFLAPKKFPCTRPPC  
TGVVDCYVSRPTEKSLMLFLWAVSALSFLGLADLVCSLRRRMRRRPGPPTSPSIRKQS  
GASGHAEGRRTDEEGREEEGAPPPGARAGGEGAGSPRRTSRVSGHTKIPDEDESEVTS  
SASEKLGRQPRGRPHREAAQDPRGSGSEEQPSAAPSRLAAPPSCSSLQPPDPPASSGAP  
HLRARKSEWV

>sp|Q5T442|CXG2\_HUMAN Gap junction gamma-2 protein OS=Homo sapiens GN=GJC2 PE=1 SV=1

MTNMSWSFLTRLLEEIHNHSTFVGKVVLTVLVVFRIVLTAVGGEAIYSDEQAKFTCNTRQ  
PGCDNVCYDAFAPLSHVRFWVFQIVVISTPSVMYLGAVHRLARASEQERRRALRRRPGP  
RRAPRAHLPPPHAGWPEPADLGEEEPMLGLGEEEEEEETGAAEGAGEEAEAEAGAEAEACTK  
AVGADGKAAGTPGPTGQHDGRRRIQREGLMRVYVAQLVARAAFEVAFVLVGQYLLYGFEVR  
PFFPCSRQPCPHVDCFVSRPTEKTVFLLVMYVVSCLCLLLNLCEMAHLGLGSAQDAVRG  
RRGPPASAPAPAPRPPPCAFPAAGLACPPDYSLVRAAERARAHDQNLANLALQALRD  
GAAAGDRDRDSSPCVGLPAASRGPPRAGAPASRTGSATSAGTVGEQGRPGTHERPGAKPR  
AGSEKGSASSRDGKTTVWI

>sp|Q9UIA0|CYH4\_HUMAN Cytohesin-4 OS=Homo sapiens GN=CYTH4 PE=2 SV=1

MDLCHPEPAELSSGETEELQRIKWHRKQLLEDIQKLKDEIADVFAQIDCFESAEEESMAQ  
KEKELCIGRKKFNMDPAKGIQYFIEHKLLTPDVQDIARFLYKGEGLNKTAIGTYLGERDP  
INLQVLQAFVDCHEFANLNLVQALRQFLWSFRLPGEAQKIDRMMEAFATRYCLCNPGVFQ  
STDTCYVLSFSIIMLNTSLHNPVNRDRPPFERFVSMNRGINNGSDLPEDQLRNLFDSEIKS  
EPFSIPEDDGNDLTHTFFNPDRREGWLLKGGRVKTKWRRWFILTDNCLYYFEFTTDKEPR  
GIIPLENLSVQKVDPPKPFCELYNPSCRQKIKACKTDGDGRVVEGKHESYRISATSA  
EERDQWIESIRASITRVPFYDLVSTRKKKIASKQ

>sp|Q14093|CYLC2\_HUMAN Cylicin-2 OS=Homo sapiens GN=CYLC2 PE=2 SV=1

MSLPRFQRVNFQPYDNYIPVSELSKKSQNHQHFALLFPKPQRPQTKRRSKPSQIRDNTVS  
IIDEEQLRGDRRQPLWYRSLMRISERPSVYLAARRQPLKPTRTVEVDSKAAEIGKKGED  
KTTQKDTTDESELKQGGKDSKKGKIDIEKGKEEKLDKKDSKKGKDAEKGKDSATESED

EKGGAKKDNKKDKKDSNKGKDSATESEGEKGGTEKDSKKGKKDSKKGKDSAIELQAVKAD  
EKKDEDGKKDANKGDESKDAKKDAKEIKKGKKDKKKPSSTDSDSKDDVKKESKKDATKDA  
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>sp|P01040|CYTA\_HUMAN Cystatin-A OS=Homo sapiens GN=CSTA PE=1 SV=1  
MIPGGLSEAKPATPEIQEIVDKVKPQLEEKTNETYGKLEAVQYKTQVVAGTNYIYIKVRAG  
DNKYMHLKVFKSLPGQNEDLVLTYGVQVDKNKDELDTGF

>sp|P09228|CYTT\_HUMAN Cystatin-SA OS=Homo sapiens GN=CST2 PE=1 SV=1  
MAWPLCTLLLLLATQAVALLAWSPQEEDRIIEGGIYDADLNDERVQRALHFVISEYNKATE  
DEYYRRLRLVLRAREQIVGGVNYFFDIEVGRITCTKSQPNLDTCAFHEQPELQKKQLCSF  
QIYEVPWEDRMSLVNSRCQEA

>sp|Q6ZPD9|D19L3\_HUMAN Probable C-mannosyltransferase DPY19L3 OS=Homo sapiens GN=DPY19L3  
PE=2 SV=1

MMSIRQRREIRATEVSEDFPAQEENVKLENKLPSCGTSRRLWKILSLTIGGTIALCIGLL  
TSVYLATLHENDLWFSNIKEVEREISFRTECGLYSYKQMLQAPTLVQGFHGLIYDNKT  
ESMKTINLQRMNIYQEVFLSILYRVLPQKYLEPVYFYIYTLFGLQAIYVTALYITSWL  
LSGTWLSGLLAFFWYVTNRIDTTRVEFTIPLRENWALPFFAIQIAAITYFLRPNLQPLSE  
RLTLAIFISTFLSLTWQFNQFMMLMQALVLTLDLSDMLPAVKATWLYGIQITSLLLV  
CILQFFNSMILGSLLSFNLSVFIARKLQKNLKTGSFLNRLGKLLHLFMVLCITLFLNN  
IIKKILNLKSDEHIFKFLKAKFGLGATRDFDANLYLCEEAFGLLPFNTFGRLSDTLIFYA  
YIFVLSITVIVAFVAFHNLSNSTNQSVGKMEKGTVDLKPETAYNLHTILFGFLALST  
MRMKYLWTSVMCFASFGLCSPEIWELLKSVHLYNPKRICIMRYSVPILILLYLCYKFW  
PGMMDELSELREFYDPDTVELMNWINSNTPRKAVFAGSMQLLAGVKLCTGRTLTHPHYE  
DSSLRERTRAVYQIYAKRAPEEVHALLRSFGTDYVILEDSICYERRHRRGCRLRDLDDIA  
NGHMDGPGENDPDLKPADHPRFCEEIKRNLPPYVAYFTRVFQNKTFHVKLSRNK

>sp|Q7Z388|D19L4\_HUMAN Probable C-mannosyltransferase DPY19L4 OS=Homo sapiens GN=DPY19L4  
PE=1 SV=1

MAEEGPPVELRQRKKPKSSENKESAKEEKISDIPIPERAPKHVLFQRFKIFIGCLAAV  
TSGMMYALYLSAYHERKFWFSNRQELEREITFQGDSAIYYSYKMDLKAPSFERGVYELT  
HNNKTVSLKTINAVQQMSLYPELIASILYQATGSNEIIEPVYFYIGIVFGLQGIYVTLF  
VTSWLSGTLWLAGMLTVAWFVINRVDTRIIEYSIPLRENWALPYFACQIAALTGYLKS  
NLNTYGERFCYLLMSASTYTFMMWEYSHYLLFLQAISLFLDLTFSVEQSDKVYEVYKIYIF  
SLFLGYLLQFENPALLVSPLLSLVAALMLAKCLQLNVKGSFVAKIIKVINFYLVCTLT  
ITLNIIMKMFVPHKENGHMLKFLEVKFGLNMTKNFTMNWLLCQESLQAPSQDFFLRLTQSS  
LLPFYILVLIICFLSMLQVIFRRINGKSLKETVTLEDGRIGERPEIIYHVIHTILLGSLA  
MVIEGLKYIWIPYVCMLAAGVCSPELWMTLFWLRLRTVHPILLALILSMAVPTIIGLS  
LWKEFFPRLMTELMELQEFYDPDTVELMTWIKRQAPVAAVFAGSPQLMGAIKLCTGWMVT  
SLPLYNDDLLKRNENIYQIYSKRSIEDIYKILTSYKANYLIVEDAICNEVGPMRGCRVK  
DLLDIANGHMVCEEGLTYSKYGRFCHEVKINYSYVNYFTRVYWNRSYFVYKINTVIS  
FQS

>sp|Q8NEP3|DAAF1\_HUMAN Dynein assembly factor 1, axonemal OS=Homo sapiens GN=DAAF1 PE=1  
SV=5

MHPEPSEPATGGAAELDCAQEPGVEESAGDHGSAGRGCKEEINDPKEICVGSSDTSYHS  
QQKQSGDNGSGGHFAHPREDREDRGRPMTKSSQLKCKQHKLYITPALNDTLYLHFKGFD  
RIENLEEYTGRLCLWLQSNGIQKIENTLEAQTELRLCLFLQMNLLRKIENTLEPLQKLDALNL

SNNYIKTIENLSCLPVLNTLQMAHNHLETVEDIQHLQECLRLCVLDLSHNKLSDP EILSI  
LESMPDLRVNLNMGPNVIRQIPNYRRTVTVRLKHLTYLDDRPVFPKDRACAEAWARGGYA  
AEKEERQQWESRERKKITDSIEALAMIKQRAEERKRQRESQERGEMTSDDGENVPASAE  
GKEEPPGDRETRQKMELFVKESFEAKDELCPKPSGEEPPVEAKREDGGPEPEGTLP AET  
LLLSSPVEVKGEDGDGEPEGTLP AEAPPPPPVEVKGEDGDQEPEGTLP AETLLLSPPVK  
VKGEDGDREPEGTLP AEAPPPPLGAAREEPTQAVATEGVFVTELDGTRTEDLETIRLE  
TKETFICIDDLPDLEDDDETGKSLEDQNMCFPKIEVISSLSDDSDPELDYTS LPVLENLPT  
DTLSNIFAVSKDTSKAARVPFTDIFKKEAKRDLEIRKQDTKSPRPLIQELSDEDPSGQLL  
MPPTCQRDAAPLTSSGDRSDFLAASSPVPTESAATPPETCVGVAQPSQALPTWDLTAFP  
APKAS

>sp|P61803|DAD1\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase  
subunit DAD1 OS=Homo sapiens GN=DAD1 PE=1 SV=3

MSASVSVISRFLEEYLSSTPQRLKLLDAYLLYILLTGALQFGYCLLVGTFFNSFLSGF  
ISCVGSFILAVCLRIQINPQNKAADFQGISPERAFADFLFASTILHLVVMNFVG

>sp|Q5VU92|DC121\_HUMAN DDB1- and CUL4-associated factor 12-like protein 1 OS=Homo sapiens  
GN=DCAF12L1 PE=1 SV=1

MAQQQTGSRKRKAPAVEADAESSPSQGLAAADGEGPLLLKRQRRPATYRSMHYLKVREV  
GGWGPARLQGFDELRGYAVQRLPELLTERQLELGTVNKVFASQWLSNRQVVCGTKCNTL  
FVVDVESGHIARIPLLRDSEARLAQDQCGCIHAIELNPSKTLATGGENPNSLAIIYQLP  
SLDPLCLGDRHGHKDWIFAVAWLSDTVAVSGSRDGTVALWRMDPKFDDTVAWHSEVGLP  
VYAHIRPRDVEAIPRAIINPSNRKVRALACGGKNQELGAVSLDGYFHLWKAGSALSRLLS  
IRLPYFRDNVCLTYCDDMSVYAVGSHSHVSFLDLRQDQQNIRPLCSREGGTGVRSLSFYR  
HIITVGTGQGSLLFYDVRAQKFLEERASATLESSSGPARRKLRLACGRGWLNHNDFWVNY  
FGGMEVFPNALYTHCYNWPEMKLFVAGGPLPAGLHGNYAGLWS

>sp|Q66K64|DCA15\_HUMAN DDB1- and CUL4-associated factor 15 OS=Homo sapiens GN=DCAF15 PE=1  
SV=1

MAPSSKSERNSGAGSGGGPGGAGGKRAAGRREHVLKQLERVKISGQLSPRLFRKLPPR  
VCVSLKNIVDEDFLYAGHIFLGFSGKGRYVLSYTSSSGDDDFSFYIYHLYWWEFNVHSKL  
KLVRQVRLFQDEEIIYSDLYLTVCWPSDASKVIVFGFNTRSANGMLNMMMMSDENHRDI  
YVSTVAVPPPGRCAACQDASRAHPGDPNAQCLRHGFMLHTKYQVVYPFPTFQPAFQLKKD  
QVVLNNTSYSLVACAVSVHSAGDRSFCQILYDHSTCPLAPASPPEPQSPPELPPALPSFCP  
EAAPARSSGSPEPSPAIAKAKEFVADIFRRAKEAKGGVPEEARPALCPGPSGRCAHSE  
PLALCGETAPRDSPPASEAPASEPGYVNYTKLYYVLESGETEPEDELEDDKISLPFVVT  
DLRGRNLRPMRERTAVQGQYLTV EQLTLD FEYVINEVIRHDATWGHQFCSFSYDIDIVILE  
VCPETNQVLINIGLLLLAFPSPTEEGQLRPKYHTSLKVAWDLNTGIFETVSVGDLTEVK  
GQTSGSVWSSYRKSCVDMVMKWLVPESGRYVNRMTNEALHKGCSLKVLA DSERYTWIVL

>sp|Q9NXF7|DCA16\_HUMAN DDB1- and CUL4-associated factor 16 OS=Homo sapiens GN=DCAF16 PE=1  
SV=1

MGPRNPSPDHLSESESEEEEEISYLNESSGEEWDSSEEEDSMVPNLSPLESLAWQVKCLL  
KYSTTWKPLPNPNWLHYAKLLDPSTPVHILREIGLRLSHCSHCVPKLEPIPEWPLASCG  
VPPFQKPLTSPSRLSRDHATLNGALQFATKQLSRTL SRATPIPEYLKQIPNSCVSGCCCG  
WLTKTVKETTRTEPINTTYSYTD FQKAVNKLLTASL

>sp|P61962|DCAF7\_HUMAN DDB1- and CUL4-associated factor 7 OS=Homo sapiens GN=DCAF7 PE=1  
SV=1

MSLHGKRKEIYKYEAPWTVYAMNWSVRPDKRFRALGSGFVEEYNNKVQLVGLDEESSEFI  
CRNTFDHPYPTTKLMWIPDTKGVYPDLLATSGDYLRVVRVGETETRLECLLNNNKNNSDFC  
APLTSFDWNEVDPYLLGTSSIDTTCTIWGLETGQVLGRVNLVSGHVKTQLIAHDKEVYDI  
AFSRAGGGRDMFASVGADGSVRMFDLRHLEHSTIIYEDPQHHPLRLCWNKQDPNYLATM  
AMDGMEVVILDVRVPCTPVARLNNHRACVNGIAWAPHSSCHICTAADDHQALIWDIQQMP  
RAIEDPILAYTAEGEINNVQWASTQPDWIAICYNNCLEILRV

>sp|Q9BVC3|DCC1\_HUMAN Sister chromatid cohesion protein DCC1 OS=Homo sapiens GN=DSCC1  
PE=1 SV=2

MKRTRDEVDATLQIAKLNAEELPAVHCLGFGPGASGAAAGDFCLLELEPTLCQQLEDGH  
SLVIRGDKDEQAVLCSKDPTYDLKIADTSNMLLFIPGCKTPDQLKKEDSHCNIIHTEIFG  
FSNNYWELRRRRPKLKKLKLLENPYEGPDSQKEKDSNSSKYTTEDLLDQIQASEEEIM  
TQLQVLNACKIGGYWRILEFDYEMKLLNHVTQLVDSSESWSFGKVPLNTCLQELGPLEPEE  
MIEHCLKCYGKKYVDEGEVYFELDADKICRAAARMLLQNAVKFNLAEFQEVWQQSVPEGM  
VTSLDQLKGLALVDRHSRPEIIFLLKVDDLPEDNQERFNSLFSLEKWTTEEDIAPYIQDL  
CGEKQTIGALLTKYSHSSMQNGVKVYNSRRPIS

>sp|P43146|DCC\_HUMAN Netrin receptor DCC OS=Homo sapiens GN=DCC PE=1 SV=2

MENSLRCVWVPKLAFVLFGLSFAHLQVTGFQIKAFALTALRFLSEPSDAVTMRGGNVLLD  
CSAESDRGVPIKWKKGDIHLALGMDERKQQLSNGSLLIQNILHSRHHKPDEGLYQCEAS  
LGDSGSIISRTAKVAVAGPLRFLSQTESVTAFMGDTVLLKCEVIGEMPMTIHWQKNQQDL  
TPIPGDSRVVVLPSGALQISRLQPGDIGYRCSARNPASSRTGNEAEVRILSDPGLHRQL  
YFLQRPSNVVAIEGKDVALECCVSGYPPPSFTWLRGEEVIQLRSKKYSLGGSNLLISNV  
TDDDSGMYTCVVTYKNENISASAELTVLPPWFLNHPSNLYAYESMDIEFFECTVSGKPVP  
TVNWMKNGDVVIPSDYFQIVGGSNLRILGVVKSDEGFYQCAENEAGNAQTSACLIVPKP  
AIPSSSVLPSAPRDVVPVLVSSRFVRLSWRPPAEAKGNIQTFTVFFSREGDNRERALNTT  
QPGSLQLTVGNLKPEAMYTRFRVAYNEWGPGESSQPIKVATQPELQVPGPVENLQAVSTS  
PTSILITWEPPAYANGPVQGYRLFCTEVSTGKEQNIEVDGLSYKLEGLKKFTEYSRLFLA  
YNRYGPGVSTDDITVVTLSDVPSAPPQNVSLVVNSRSIKVSWLPPPSGTQNGFITGYKI  
RHRKTTRRGEMETLEPNLWYLFTGLEKGSQYSFQVSAMTVNGTGPPSNWYTAETPENDL  
DESQVPDQPSLHVRPQTNCIIMSWTPPLNPNIIVRGYIIGYGVGSPYAETVRVDSKQRY  
YSIERLESSSHYVISLKAFNNAGEGVPLYESATTRSITDPTDPVDYYPLLDDFPTSVPDL  
STPMLPPVGVQAVALTHDAVRVSWADNSVPKNQKTSEVRLYTVRWRTSFSASAKYKSED  
TSLSYTATGLKPNTMYEFSVMVTKNRRSSTWSMTAHATTYEAAPTSAPKDLTVITREGKP  
RAVIVSWQPPLEANGKITAYILFYTLNIPIDWIMETISGDRLTHQIMDLNLDTMYYF  
RIQARNSKGVGLSDPILFRTLKVEHPDKMANDQGRHGDGGYWPVDNLIDRSTLNEPPI  
GQMHPPHGSVTPQKNSNLLVIVVTGVITVLVVIVAVICTRRSSAQQRKKRATHSAGK  
RKGSQKDLRPPDLWIHHEEMEMKNIEKPSGTDPAGRDSPIQSCQDLTPVSHSQSETQLGS  
KSTSHSGQDTEEAGSSMSTLERSLAARRAPRAKLMIPMDAQSNNAVVSIAIPVPTLESAQ  
YPGILPSPTCGYHPHQFTLRPVFPFTLSVDRGFGAGRSQSVSEGPTTQQPPMLPPSQPEH  
SSSEEAPSRTIPTACVRPTHPLRSFANPLLPPMSAIEPKVPYTPLLSQPGPTLPKTHVK  
TASGLAGKARSPLLPSVPTAPEVSEESHKPTEDSANVYEQDDLSEQMASLEGLMKQLN  
AITGSAF

>sp|P59894|DCDC1\_HUMAN Doublecortin domain-containing protein 1 OS=Homo sapiens GN=DCDC1  
PE=2 SV=2

MAKTGAEDHREALSQSSLSLLTEAMEVLQQSSPEGTLDGNTVNPIYKYILNDLPREFMSS

QAKAVIKTTDDYLQSQFGPNRLVHSAAVSESGSLQDCSTHQTASDHSDEISDLDSYKSN  
SKNNSCSISASKRNRPV SAPVGLRVAEFSSLKFQSARNWQKLSQRHKLQPRVIKVTAYK  
NGSRVTFARVTVPTITLLEECEKLNLMMAARRVFLADGKEALEPEDIPHEADVYVSTG  
EPFLNPFKKIKDHLLLIKVKVTWMTNGLMLPTDIKRRKTKPVL SIRMKKLTERTSVRILFF  
KNGMGQDGHEITVGKETMKKVLDTCTIRMNLNLPARYFYDLYGRKIEDISKGKH  
>sp|Q9UHGO|DCDC2\_HUMAN Doublecortin domain-containing protein 2 OS=Homo sapiens GN=DCDC2  
PE=1 SV=2  
MSGSSARSSHLSQPVVKSVLVYRNGDPFYAGRRVVIHEKKVSSFEVFLKEVTGGVQAPFG  
AVRNIYTPRTGHRIRKLDQIQSGGNYVAGGQEAFFKKNLYLDIGEIKRPMEEVNTVEKPV  
IHSRINVSARFRKPLQEPCTIFLIANGDLINPASRLIPRKTNLQWDHVLQMVTEKITLR  
SGAVHRLYTLEGKLVESGAELENGQFYVAVGRDKFKKLPYSELLFDKSTMRPFQKASS  
LPPIVSGRKS KSGSNDRHKSSTVGSSDNSSPQLKRKGKKEDVNSEKLTCLKQNVKLKNS  
QETIPNSDEGIFKAGAERSETRGAAEVQEDEDQVEVPVDQRP AEIVDEEEDGEKANKDA  
EQKEDFSGMNGDLEEEGGREATDAPEQVEEILDHSEQQARPARVNGGTDEENGEELQQVN  
NELQLVLDKERKSQAGSGQDEADVDPQRPPRPEVKITSPEENENNQKNKYAAYA  
>sp|P81605|DCD\_HUMAN Dermcidin OS=Homo sapiens GN=DCD PE=1 SV=2  
MRFM TLLFLTALAGALVCAYDPEAASAPGSGNPCHEASAAQKENAGEDPGLARQAPKPRK  
QRSSLLEKGLDGAKKAVGGLGKLGKDAVEDLESVGKGAHVHDVKDVLDSVL  
>sp|P04080|CYTB\_HUMAN Cystatin-B OS=Homo sapiens GN=CSTB PE=1 SV=2  
MMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVKAVSFKSQV VAGTNYFIKVVHG  
DEDFVHLRVFQSLPHENKPLTLSNYQTNKAKHDELT YF  
>sp|O76096|CYTF\_HUMAN Cystatin-F OS=Homo sapiens GN=CST7 PE=1 SV=1  
MRAAGTLLAFCCVLSTTGGSPDTCSDLNSRVKPGFPKTIKTNDPGVLQAARYSVEKF  
NNCTNDMFLFKESRITRALVQIVKGLKYMLEVEIGRTTCKKNQHLRLDDCDFQTNHTLKQ  
TLSCYSEVWVVPWLQHFEVPVLRCH  
>sp|P01036|CYTS\_HUMAN Cystatin-S OS=Homo sapiens GN=CST4 PE=1 SV=3  
MARPLCTLLLLMATLAGALASSSKEENRIIPGGIYDADLNDEWVQRALHFAISEYNKATE  
DEYYRRPLQVLRAREQTFGGVNYFFDVEVGRTICTKSQPNLDTCAFHEQPELQKKQLCSF  
EIYEV PWEDRMSLVNSRCQEA  
>sp|Q96J86|CYR1\_HUMAN Cysteine and tyrosine-rich protein 1 OS=Homo sapiens GN=CYR1 PE=2  
SV=1  
MDAPRLPVRPGVLLPKLVLLFVYADDCLAQCGKDCKSYCCDGTTPYCCSYAYIGNILSG  
TAIAGIVFGIVFIMGVIAGIAICICMCMKNHRATRVGILRTHTINTVSSYPGPPPYGHDH  
EMEYCADLPPPYSPTPQGAQRSPPPYPGNARK  
>sp|Q8WTQ1|D104A\_HUMAN Beta-defensin 104 OS=Homo sapiens GN=DEFB104A PE=2 SV=2  
MQRLVLLLAISLLLYQDLPVRSEFELDRICGYGTARCRKKCRSQEYRIGRCPNTYACCLR  
KWDESLLNRTKP  
>sp|A8MXU0|D108A\_HUMAN Putative beta-defensin 108A OS=Homo sapiens GN=DEFB108P1 PE=5 SV=2  
MRIAVLFFTIFFFMSQVLPAKGKFKEICERPNGSCRDFCLETEIHVGRCLNSRPCCLPLG  
HQPRIESTTPKKD  
>sp|Q6ZN68|D19P2\_HUMAN Putative C-mannosyltransferase DPY19L2P2 OS=Homo sapiens  
GN=DPY19L2P2 PE=5 SV=2  
MADSRRVIIASWYRTFMGIVNLFLETCTCWNVTRIEPLNEVQSCEGLRDPACFYVGIVF  
ILNGLMMGLFFIYGTYSGETLGLITVLCFFFNHGEATCVMWTPPLRESFSYPFLVLQM



YVLTILIRTSSNDRPFIALCLSNVAFMLPWQFAQFILFTQIASLFPMYVVGYIEPSKFQ  
KIIYMNMISVTLSFILMFGNSMYLSSYYSSSLLMTWAIILKRNEIQKLGVSKLNCWLIQG  
SAWWCGTIIILKFLTSKILGVSDHICLSDLIAAGILRYTDFDTLKYTCSEPFDFMEKATLL  
IYTKTLLLPVVMVITCFIFKKTVGDISRVLATNVYLRCCLCRCHAYNGKCQAVYTSSHCE  
SSTLRRCRLEAWLQHA

>sp|P08174|DAF\_HUMAN Complement decay-accelerating factor OS=Homo sapiens GN=CD55 PE=1  
SV=4

MTVARPSVPAALPLLGLPRLLLVLLCLPAVWGDCGLPPDVNAQPALEGRTSFPEDTV  
ITYKCEESFVKIPGEKDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFP  
VGTVVEYECRPGYRREPSLSPKLTCLQNLKWSTAVEFCKKKSCPNPGEIRNGQIDVPGGI  
LFGATISFSCNTGYKLFGSTSSFLISGSSVQWSDPLPECREIYCPAPPQIDNGIIQGER  
DHYGYRQSVTYACNKGFTMIGEHSIYCTVNNDGEWGGPPPECRGKSLTSKVPPTVQKPT  
TVNVPTTEVSPTSQKTTTKTTPNAQATRSTPVSRTTKHFHETTPNKGSGTTS GTTRLLS  
GHTCFTLTGLLGTLVTMGLLT

>sp|Q14118|DAG1\_HUMAN Dystroglycan OS=Homo sapiens GN=DAG1 PE=1 SV=2

MRMSVGLSLLLPLSGRTFLLLLSVVMAQSHWPSEPSEAVRDWENQLEASMHSVLSDLHEA  
VPTVVGIPDGTAVVGRSFRVTIPTDLIASSGDIKVSAGKEALPSWLHWDSQSHTLEGL  
PLDTDKGVHYISVSATRLGANGSHIPQTSSVFSIEVYPEDHSELQSVRTASDPGGEVSS  
ACAADEPVTVLTVILDADLTGMTPKQRIDLHMRMSFSEVELHNMKLVVVNNRFLDMSA  
FMAGPGNAKKVVENGALLSWKLGCSLNQNSVPDIHGVEAPAREGAMSAQLGYPVVGHIA  
NKKPPLPKRVRRIHATPTPTAIGPPTTAIQEPPSRIVPTPTSPAIIAPPTETMAPPVRD  
PVPGKPTVTIRTRGAIITPTLGPITQPTRVSEAGTTVPGQIRPTMTIPGYVEPTAVATPP  
TTTTKKPRVSTPKPATPSTDSTTTTTRRPTKKPRTPRPVPRVTTKVSITRLETASPPTRI  
RTTTSVPRGGEPNQRPELKNHIDRVDWVGTYFEVKIPSDTFYDHEDTTDKLKLTLKL  
REQQLVGEKSWVQFNSNSQLMYGLPDSSHVGKHEYFMHATDKGGLSAVDAFEIHVHRRPQ  
GDRAPARFKAKFVGDPALVLNDIHKKIALVKKLAFAGDRNCSTITLQNITRGSIVVEWT  
NNTLPLEPCPKEQIAGLSRRIAEDDGKPRPAFSALEPDFKATSITVTGSGSCRHLQFIP  
VVPPRRVPSEAPTEVPDRDPEKSSDDVYLHTVIPAVVVAAILLIAGIIAMICYRKKRK  
GKLTLEDQATFIKKGVPIIFADELDDSKPPSSSMLILQEEKAPLPPPEYPNQSVPETT  
PLNQDTMGEYTPLRDEDPNAPPYQPPPPFTAPMEGKGSRPKNMTPYRSPPPYVPP

>sp|Q8N907|DAND5\_HUMAN DAN domain family member 5 OS=Homo sapiens GN=DAND5 PE=2 SV=1

MLLGQLSTLLCLLSGALPTGSGRPEPQSPRPQSWAAANQTWALGPGALPPLVPASALGSW  
KAFLGLQKARQLMGRLQRGQDEVAAVTLPLNPQEVIQGMCKAVPFVQVFSRPGCSAIRL  
RNHLCFGHCSSLYIPGSDPTPLVLCNSCMPARKRWAPVVLWCLTGSSASRRRVKISTMLI  
EGCHCSPKA

>sp|O43293|DAPK3\_HUMAN Death-associated protein kinase 3 OS=Homo sapiens GN=DAPK3 PE=1  
SV=1

MSTFRQEDVEDHYEMGEELGSGQFAIVRKCRQKGTGKEYAAKFIKKRRLSSRRGVSREE  
IEREVNIREIRHPNII TLHDIFENKTDVVLILELVSGGELFDFLAEKESL TEDEATQFL  
KQILDGVHYLHSKRIA HFDLKPENIMLLDKNVNPRIKLIDFGIAHKIEAGNEFKNIFGT  
PEFVAPEIVNYEPLGLEADMW SIGVITYILLSGASPFLGETKQETLTNISAVNYDFDEEY  
FSNTSELA KDFIRRLLVKDPKRRMTIAQSLEHSWIKAI RRRNRVGEDSGRKPERRRLKTT  
RLKEYTIKSHSLPNN SYADFERFSKVLEAAAAEEGLRELQRSRRLCHE DVEALAAIY  
EEKEAWYREESDSLQDLRRLRQELLKTEALKRQAQEEAKGALLGTSGLKRRFSRLENRY

EALAKQVASEMRFVQDLVRALEQEKLQGVCEGLR

>sp|Q9NR90|DAZ3\_HUMAN Deleted in azoospermia protein 3 OS=Homo sapiens GN=DAZ3 PE=1 SV=1

MSAANPETPNSTISREASTQSSSAAASQGWLPEGKIVPNTVVFVGIDARMDETEIGSCF  
GRYGSVKEVKIITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGPAPKQKLC  
ARHVQPRPLVVNPPPPQFQNVWRNPNTETYLQPQITPNPVTQHVQAYSAYPHSPGQVIT  
GCQLLVYNYQEYPTYPDSAFQVTTGYQLPVYNYQFPAYPRSPFQVTAGYQLPVYNYQAF  
PAYPNSPFQVATGYQFPVYNYQFPAYPSSPFQVTAGYQLPVYNYQAFPAYPNSPFQVAT  
GYQFPVYNYQAFPAYPNSPVQVTTGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQAF  
PAYPNSPVQVTTGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQAFPAYPNSPVQVTT  
GYQLPVYNYQAFPAYNSAVQVTTGYQFHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVC  
LIQRRD

>sp|O14576|DC1I1\_HUMAN Cytoplasmic dynein 1 intermediate chain 1 OS=Homo sapiens  
GN=DYNC1I1 PE=1 SV=2

MSDKSDLKAELERKKQLRAQIREKKRKEEERKKKEADMQQKKEPVQDDSDLDRKRRETE  
ALLQSIGISPEPPLVQLHFLTWDTCYFHYLVPTMSPSSKSVSTPSEAGSQDSDGLGPL  
TRTLQWDTDPVSLQLQSDSELGRRLHKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSE  
EDEEDEEMVESKVGQDSELENQDKKQEVKEAPPRELTEEEKQQLHSEEFLLIFFDRTIRV  
IERALAEDSDIFFDYSGRELEEKDGDVQAGANLSFNRFYDEHWSKHRVVT CMDWSLQYP  
ELMVASYNNDAPHEPDGVALVWNMFKKTTPEYVFHCQSSVMSVCFARFHPNLVGGT  
YSGQIVLWDRNSHRRTPVQRTPLSAAAHTHPVYCVNVGTQNAHNLITVSTDGKMCSWSL  
DMLSTPQESMELVYNKSKPVAVTGMAFPTGDVNNFVVGSEEGTVYTACRHGSKAGIGEVF  
EGHQGPVTGINCHMAVGPIDFSHLFTSSFDWTVKLWTTKHNKPLYSFEDNADYVYDVMW  
SPVHPALFACVDGMGRDLNLNNDTEVPTASVAIEGASALNRVRWAQAGKEVAVGDSEG  
RIWVYDVGELAVPHNDEWTRFARTLVEIRANRADSEEEGTVELSA

>sp|O43237|DC1L2\_HUMAN Cytoplasmic dynein 1 light intermediate chain 2 OS=Homo sapiens  
GN=DYNC1L2 PE=1 SV=1

MAPVGVEKKLLLGPNGPAVAAAGDLTSEEEGQSLWSSILSEVSTRARSKLPSGKNILVF  
GEDGSGKTTMLTKLQGAEHGKKGRGLELYLSVHDEDRDDHTRCNVWILDGDLYHKGLLK  
FAVSAESLPETLVIFVADMSRPWTVMESLQKWASVLRHIDKMKIPPEKMRELERKFVKD  
FQDYMEPEEGCQSGSPQRRGPLTSGSDEENVALPLGDNVLTHNLGIPVLVVCTKCDASVL  
EKEHDYRDEHLDFIQSHLRRFCLQYGAALIYTSVKEEKNDLLYKYIVHKTYGFHFTTPA  
LVVEKDAVFIPAGWDNEKKIAILHENFTTVKPEDAYEDFIVKPPVRKLVHDKELAAEDEQ  
VFLMKQQSLLAKPATPTRASESPARGPSGSPRTQGRGGPASVPSSSPGTSVKKPDPNIK  
NNAASEGVLASFFNSLLSKKTGSPGSPGAGGVQSTAKKSGQKTVLSNVQEELDRMTRKPD  
SMVTNSSTENEA

>sp|POC7V8|DC8L2\_HUMAN DDB1- and CUL4-associated factor 8-like protein 2 OS=Homo sapiens  
GN=DCAF8L2 PE=2 SV=2

MSHQEGSTDGLPDLGTESLFSSPEEQSGAVAATEASSDIDIATSELSVTVTGDGSDSRDG  
GFNDASTENRSSDQESASEDIELESLEDFEHFLMSGESLFHYPLVGEEETEREEDEEI  
QEEGEEEEEEEEEEEEEEEEEEEEEQPRAGPQSGGNHEQYSLEEDQALEEWSSETS  
ALPRPRWQVVTAHQRLQSGSRPRFVYEACGARAFVQRFRQLQYRLADHVGCVNTVHFNQRG  
TRLASSGDDLKVIWDWVRQRPVLNFESGHTNNVFQAKFLPNCGDSTLAMCARDGQVRVA  
ELINASYFNNTKCAVQHRGPAHKLALPDSPYKFLTSGEDAVVFTIDLRQDRPASKVVVT  
RENDKKVGLYTTITVNPANTYQFAVGGQDQFVRIYDQRKIDKKENNGVLKKFTPHHLVNCD

FPTNITCVVYSHDGETELLASYNDDDIYLFNSSHSDGAQYSKRFGKHRNNTTVKGVNFYGP  
RSEFVVS GSDCGHIFWEKSSCQIIQFLKGSREGTINCLEPHYPYLPVLACSGLDHDKVIW  
TPTAKAATELTGLKKVIKKNKWERDEDSLHHGSLFDQYMLWFLLRHVTQRGRHQDWRSGE  
AEFPDEESDESSSTSETSEEEVQDRVQCMP

>sp|Q5QP82|DCA10\_HUMAN DDB1- and CUL4-associated factor 10 OS=Homo sapiens GN=DCAF10 PE=1  
SV=1

MFPGPHSPGGDSAGAGAEPTHEGQAAATGPPSPLHPGADATHPPPPARSPRRPGAP  
SLSPAPRSGELGLPGAPESSTASAPGEPSPSPPCRRPGDCRAKSRGRHGLGAGLGPG  
ARLFGWLKERSLGRGLFVDPARNFRMTSLYGSIH PADSVYLSTRTHGAVFNLEYS PDG  
SVLTVACEQTEVLLFDPIS SKHIKTLSEAHEDCVNNIRFLDNRLFATCSDDTTIALWDLR  
KLNTKVCTLHGHTSWVKNIEYDTNTRLLVTS GFDGNI IWDNRYTEDGCPHKKFFHTRF  
LMRMRLTPDCSKMLISTSSGYLLILHDLDTKSLEVGSYPILRARRTSSSDLTSSSSS  
GPRVSGSPCHHSDSNSSEKHMSRASQREGVSPRNSLEVVTPEVLGESDHGNCITSLQLHP  
KGWATLLRCSNSDDEECTCVYEFQEGAPVRPVSPRCSLRLTHYIEEANVGRGYIKELCF  
SPDGRMISSPHGYGIRLLGFDKQCSELVDCLPKEASPLRVIRSLYSHNDVVLTTKFSPTH  
CQIASGCLSGRVSLYQPKF

>sp|Q5T6F0|DCA12\_HUMAN DDB1- and CUL4-associated factor 12 OS=Homo sapiens GN=DCAF12 PE=1  
SV=1

MARKVVSRRKAPASPGAGSDAQGPQFGWDHSLHKKRKLPPVKRSLVYYLKNREVRLQNE  
TSYSRVLHGYYAAQQLPSLLKEREFLGTLNKFASQWLNHRQVVCGTKCNTLFVVDVQTS  
QITKIPILKDREPGGVTQQGCGIHAIELNPSRTLLATGGDNPSLAIYRLPTLDPVCVGD  
DGHKDWIFSIAWISDTMAVSGSRDGSMLWEVTDDVLTKSDARHNVS RVPVYAHITHKAL  
KDIPKEDTNPDNCKVRALAFNNKNKELGAVSLDGYFHLWKAENTLSKLLSTKLPYCRENV  
CLAYGSEWSVYAVGSQAHSVFLDPRQPSYNVKSVC SRERGS GIRSVSFYEHIITVGTGQG  
SLLFYDIRAQRFLERLSACYGSKPRLAGENLKLTTGKGWLNHDETWRNYFSDIDFFPNA  
VYTHCYDSSGTKLFVAGGPLPSGLHGNYAGLWS

>sp|Q5H9S7|DCA17\_HUMAN DDB1- and CUL4-associated factor 17 OS=Homo sapiens GN=DCAF17 PE=1  
SV=1

MGPTRKPNVCSRLSRRALGCFSRDAGVVQRTNLGILRALVCQESTKFKNVWTTHSRSPIA  
YERGRIYFDNYRRCVSSVASEPRKLYEMPKCSKSEKIEDALLWECVGDILPNSSDYKSS  
LIALTAHNWLLRISATTGKILEKIY LAPYCKFRYLSWDT PQEVI AVKSAQNRGSAVARQA  
GIQQHVLLYLAVFRVLPFSLVGILEINKKIFGNVT DATLSHGILIVMYSSGLVRLYSFQT  
IAEQFMQQKLDLGCACRWGGTTGT VGEAPFGIPCNIKITDMPPLLFEVSSLENAFQIGGH  
PWHYIVTPNKKKQKGVFHICALKDNSLAKNGIQEMDCCSLES DWIYFHPDASGRI IHVGP  
NQVKVLKLTEIENSSQHQISED FVILANRENHKNENVLTVASGRVVKKSFNLLDDDPE  
QETFKIVDYEDLDLLSVVAVTQIDAEGKAHLDFHCNEYGTLLKSIPLVESWDVTYSHEV  
YFDRDLVLHIEQKPNRVFSCYVYQMICDTGEEEEETINRSC

>sp|Q8WV16|DCAF4\_HUMAN DDB1- and CUL4-associated factor 4 OS=Homo sapiens GN=DCAF4 PE=1  
SV=3

MNKSRWQSRRRHGRSRHQNPWFRLRDSERSDSRAAQAHD SGHGDDESPSTSSGTAGT  
SSVPELPGFYFDPEKKRYFRLPGHNNCNPLTKESIRQKEMESKRLRLQ EEDRRKKIAR  
MGFNASSMLRKSQLGFLNVTNYCHLAHELRLSCMERKKVQIRSM DPSALASDRFNLILAD  
TNSDRLFTVNDVKVGGSKYGIINLQSLKTP TLKVMHENLYFTNRKVN SVCWASLNHLDS  
HILLCLMGLAETPGCATLLPASLFVNSHPGIDRPGMLCSFRIPGAWSCAWSLNIQANNC

STGLSRRVLLTNVVTGHRQSFGTNSDVLAAQFALMAPLLFNGCRSGEIFAIDLRCGNQGK  
GWKATRLFHDSAVTSVRILQDEQYLMASDMAGKIKLWDLRTTKCVRQYEGHVNEYAYLPL  
HVHEEEGILVAVGQDCYTRIWSLHDARLLRTIPSPYPASKADIPSVAFSSRLGGSRGAPG  
LLMAVGQDLYCYSYS

>sp|Q58WW2|DCAF6\_HUMAN DDB1- and CUL4-associated factor 6 OS=Homo sapiens GN=DCAF6 PE=1  
SV=1

MSRGGSYPHLLWDVRKRSGLGEDPSRLRSRYLGRREFIQRLKLEATLNVHDGCVNTICWN  
DTGEYILSGSDDTKLVISNPYSRKVLTTIRSGHRANIFSAKFLPCTNDKQIVSCSGDGV  
FYTNVEQDAETNRQCQFTCHYGTTYEIMTVPNDPYTFLSCGEDGTVRWFDTRIKTSCTKE  
DCKDDILINCRAATSVAICPPIPYYLAVGCDSSVRIYDRMLGTRATGNYAGRGTGM  
VARFIPSHLNNKSCRVTSLCYSEDGQEILVSYSSDYIYLFDPKDDTARELKTPSAEERRE  
ELRQPPVKRLRLRGDWSDTGPRARPESEERERDEQSPNVSLMQRMSDMLSRWFEEASEVA  
QSNRGRGRSRPRGGTSQSDISTLPTVPSSPDLEVSETAMEVDTPAEQFLQPSTSSSTMSAQ  
AHSTSSPTESPHSTPLLSPDSEQRQSVEASGHHTHHQSDNNNEKLSPKPGTGEPVLSLH  
YSTEGLTTSTIKLNTDEWSSIASSSRGIGSHCKSEGQEEFVPPQSSVPPEGDSETKAP  
EESSEDVTKYQEGVSAENPVENHINITQSDKFTAKPLDSNSGERNDLNLDRSCGVPEESA  
SSEKAKEPETSQDQSTESATNENNTNPEPQFQTEATGPSAHEETSTRDSALQDTSDDDD  
PVLIPGARYRAGPGDRSAVARIQEFFRRRKERKEMEELDTLNIRRLVKMVYKGHRNSR  
TMIKEANFWGANFVMMSGDCGHFIWDRHTAEHLMLLEADNHVNVCLQPHFPDPIASSG  
IDYDIKIWSPLEESRIFNRKLADDEVITRNLMLEETRNTITVPASFMLRMLASLNHIRAD  
RLEGDRSESGQENENEDEE

>sp|Q8N8Z6|DCBD1\_HUMAN Discoidin, CUB and LCCL domain-containing protein 1 OS=Homo sapiens  
GN=DCBLD1 PE=1 SV=2

MVPGARGGGALARAAGRGLLALLLAVSAPLRLQAEELGDGCGHLVITYQDSGMTSKNYPG  
TYPNHTVCEKTITVPKGKRLILRLGDLIDIESQTCASDYLLFTSSSDQYGPYCGSMTVPKE  
LLLNTSEVTVRFESGSHISGRGFLTYASSDHPDLITCLERASHYLKTEYSKFCPAGCRD  
VAGDISGNMVDGYRDTSLCKAAIHAGIIADELGGQISVLQRKGISRYEGILANGVLSRD  
GSLSDKRFLFTSNGCSRSLSFEPDGGIRASSSWQSVNESGDQVHWSPGQARLQDQGPSWA  
SGDSSNNHKPREWLEIDLGEKKKITGIRTTGSTQSNFNFYVKSFVMNFKNNNSKWKTYKG  
IVNNEEKVFQGNSNFRDPVQNNFIPPIVARYVRVVPQTHQRIALKVELIGCQITQGNS  
LVWRKTSQSTSVSTKKEDETITRIPSEETSTGINITTVAIPLVLLVLFAGMGIFAFAF  
RKKKKKGSPYGSAAEQKTDCKWKIKYPFARHQSAEFTISYDNEKEMTKLIDLITSMDADY  
QQPLMIGTGTVTRKGSTFRPMDTAAEAGVSTDAGGHYDCPQRAGRHEYALPLAPPEPEY  
ATPIVERHVLRAHTFSAQSGYRVPGPQPGHKHSLSSGGFSPVAGVGAQDGDYQRPHSAQP  
ADRGYDRPKAVSALATESGHPDSQKPPTHPTGTSYSAPRDCLTPLNQTAMTALL

>sp|Q6ZRR9|DCDC5\_HUMAN Doublecortin domain-containing protein 5 OS=Homo sapiens GN=DCDC5  
PE=2 SV=2

MKKPICKTTEPYAPVRLRLVLQNGEKNKNSVTILGPDISPGRKTQCTEILNLPSAARRLY  
NEKGKEIFALKDLQRDELVYVSCGELWINPDLZIAQQKKQIFLRNLESDIAKIQIFCSTH  
KIEALVLEVQSDIVSGSKLAVHKPVAIFGEEKQVTEPEEKQMVEDPLTTENASSEILDSH  
VRAHLRMKACHTLPRYAWQETSHDFEDDSLPPKTEKGLFENVEPQKKHSCSPKHSKLHK  
HCHQQFEYRDGQIIISHAAPQLVLGVQGNLRSMEVVLVEKKSQDQSHQRWIHQEDSRFTF  
LVSNPDLVLAVSMKTRNEVCYPVIVQKYKPYNNGAANQKWHYMKNIKALVAFHSTALD  
KEITSANYAGVCTSSVIKEENIDQPGYCYLSPDGKRKTMCLACGQSMRTEKGLKQLLP

VPFLCISGKTKQKPFLLQGPFKVISVAEVDLSCDKAEKTLSSYYQARLLSLRMKTCTQAASH  
SGMAATHQKAVKIIAYKNGDGYRNGKLIVAGTFPMLLTECTEQLGLARAASKVYTKDGRP  
IFTLRDLVLWALDESFLQRDSEKQKQDAAPVGKEQIIIEKNPRMKVKNRLFASVTSDSL  
DGIDKSLTLILRNPIAIWVSCGEPFLPPNESRKIRETELAKKGQNF

>sp|Q8N568|DCLK2\_HUMAN Serine/threonine-protein kinase DCLK2 OS=Homo sapiens GN=DCLK2  
PE=1 SV=4

MASTRSIELEHFEERDKRPRPGSRRGAPSSSGSSSGPKGNGLIPSAHSAHCSFYRTR  
TLQALSSEKKAKKARFYRNGDRYFKGLVFAISSDRFRSFDALLIELTRSLSDNVNLPQGV  
RTIYITIDGSRKVTSLDELLEGESYVCASNEPFRKVDYTKNINPNWSVNIKGGTSRALAAA  
SSVKSEVKESKDFIKPKLVTVIRSGVKPRKAVRILLNKKTAHSFEQVLTITEAIKLDG  
VVKRLCTLDGKQVTCLDQDFGDDVFIACGPEKFRYAQDDFVLHDHSECRVLKSSYSRSSA  
VKYSGSKSPGPSRRSKSPASVNGTPSSQLSTPKSTKSSSSSPTSPGSFRGLKQISAHGRS  
SSNVNGGPELDRCSPEGVNGNRCSESSTLLEKYKIGKVIDGNGFAVVEKIDRSTGKEF  
ALKIIDKAKCCGKEHLIENEVSILRRVKHPNIIMLVEEMETATELFLVMELVKGGDLFDA  
ITSSTKYTERDGSAMVYNLANALRYLHGLSIVHRDIKPENLLVCEYPDGTSKSLKLGDFGL  
ATVVEGPLYTVCGTPTYVAPEIIAETGYGLKVDIWAAGVITYILLCGFPFPRSENNLQED  
LFDQILAGKLEFPAPYWDNITDSAKELISQMLQVNVEARCTAGQILSHPVWSDASQENN  
MQAEVTGKLGKQHFNNALPKQNSTTTGVSVIMNTALDKEGQIFCSKHCQDSGRPGMEPI  
SPVPSVEEIPVPGEAVPAPTPEPTPHPPAAPGGERAGTWRRHRD

>sp|Q92564|DCNL4\_HUMAN DCN1-like protein 4 OS=Homo sapiens GN=DCUN1D4 PE=1 SV=2

MHSDAAAVNFQLNSHLSTLANIHKIYHTLNKLNLTEDIGQDDHQTGSLRSCSSSDCFNKV  
MPPRKKRRPASGDDLSAKKSRHDSMYRKYDSTRIKTEEEAFSSKRCLEWFYFYAGTDDV  
GPEGMEKFCEDIGVEPENVMVLVLAWKLDQNMGYFTLQEWLKGMTSLQCDTTEKLRNTL  
DYLRSLNDSTNFKLIYRYAFDFAREKDQRSILDINTAKCMLGLLGKIWPLFPVFHQFLE  
QSKYKVINKDQWCNVLEFSRTINLDLSNYDEDGAWPVLLDEFVEWYKDKQMS

>sp|P11926|DCOR\_HUMAN Ornithine decarboxylase OS=Homo sapiens GN=ODC1 PE=1 SV=2

MNNFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLALP  
RVTPFYAVKCNDSKAIKTLAATGTGFDCAKTEIQLVQSLGVPPERIIYANPCKQVSQI  
KYAANGVQMMTFDSEVELMKVARAHPKAKLVLRITDDSKAVCRLSVKFGATLRTSRL  
LERAKELNIDVVGVSFHVSGCTDPETFVQAISDARCVFDMGAEVGFSMYLLDIGGFPG  
SEDVKLFEEITGVINPALDKYFSDSGVRIIAEPGRYYYASAFTLAVNIIAKKIVLKEQ  
TGSDDEDESSEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKYYSSSIWGPTC  
DGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQF  
QNPDPFPEVEEQDASTLPVSCAWESGMKRHRACASASINV

>sp|Q8IZD4|DCP1B\_HUMAN mRNA-decapping enzyme 1B OS=Homo sapiens GN=DCP1B PE=1 SV=2

MAVAAGGLVGKGRDISLAALQRHDPYINRIVDVASQVALYTFGHRANEWEKTDVEGTLF  
VYTRSASPKHGFTIMNRLSMENRTEPITKDLDFQLQDPFLLYRNARLSIYGIWFDKEEC  
QRIAEMLKNLTQYEQLKAHQGTGAGISPVILNSGEGKEVDILRMLIKAKDEYTKCKTCSE  
PKKITSSSAIYDNPNIKPIPVKPSENQQQRIPQPNQTLDPPEQHLSLTALFGKQDKATC  
QETVEPPQTLHQQQQQQQQKEKLPIRQGVVRSLSYEPRRHSPPIEKQLCPAIQKLMVR  
SADLHPLSELPENRPCENGSTHSAGEFFTGPVQPGSPHNIGTSRGVQNASRTQNLFEKLQ  
STPGAANKCDPSTPAPASSAALNRSRAPTSVTPVAPGKGLAQPPQAYFNGSLPPQTVGHQ  
AHGREQSTLPRQTLPISGSQTGSSGVISPQELLKKLQIVQQEQQLHASNRPALAAKFPVL  
AQSSGTGKPLESWINKTPNTEQQTPLFQVISQRIPIATAAPSLMSPMVFAQPTSVPPE

RESGLLPVGGQEPPAAATSLLLPIQSPEPSVITSSPLTKLQLQEALLYLIQNDNFLNII  
YEAYLFSMTQAAMKKT

>sp|Q6PJP8|DCR1A\_HUMAN DNA cross-link repair 1A protein OS=Homo sapiens GN=DCLRE1A PE=1  
SV=3

MLEDISEEDIWEYKSKRKPKRVDPNNGSKNILKSVEKATDGKYQSKRSRNRKRAAEAKEV  
KDHEVPLGNAGCQTSVASSQNSSCGDGIQQTQDKETTPGKLCRTQKSQHVSPIKIRPVYDG  
YCPNCQMPFSSLIGQTPRWVHVFECCLDSPPRSETECPDGLLCTSTIPFHYKRYTHFLLAQS  
RAGDHPFSSPSPASGGSFSETKSGVLCSEERWSSYQNQTDNSVSNPPLMTQYFKKSPS  
LTEASEKISTHIQTSQQALQFTDFVENDKLVGVALRLANNSEHINLPLPENDFSDCEISY  
SPLQSDETHDIDEKPDDSQELFFTESSKDGSLIEDDDSCGFFKKRHGPLLKDQDESCP  
KVNSFLTRDKYDEGLYRFNSLNDLSQPISQNNESTLPYDLACTGGDFVLFPPALAGKLAA  
SVHQATKAKPDEPEFHSAQSNKQKQVIEESSVYNQVSLPLVKSLMLKPFESQVEGYLSSQ  
PTQNTIRKLSSENLNAKNNNTNSACFCRKALEGVVPVGKATILNTENLSSTPAPKYLKILPS  
GLKYNARHPSTKVMKQMDIGVYFGLPPKRKEEKLLGESALEGINLNPVPSPNQKRSSQCK  
RKAEKSLDLEFDASTLHESQLSVELSSERSQRQKKRCRKSNSLQEGACQKRSDDLINTE  
SEAVNLSKVVFVTKSAHGGQLRGNNKIPESNVGGSRRKTCPFYKKIPGTGFTVDAFQYG  
VVEGCTAYFLTHFSDHYAGLSKHFTFPVYCSEITGNLLKNKLHVQEYIHLPLDTECI  
VNGVKVLLDANHCPCGAVMILFYLPNGTVILHTGDFRADPSMERSLLADQKVHMLYLDTT  
YCSPEYTFPSQQEVIRFAINTAFEAVTLNPHALVVCCTYSIGKEKVFLAIADVLSKVGVM  
SQEKYKTLQCLNIPEINSLITDMCSSLVHLLPMMQINFKGLQSHLKKCGGKYNQILAFR  
PTGWTSHNKFTRIADVIPQTKGNISYIGIPYSEHSSYLEMKRFVQWLKPQKIIPTVNVGT  
WKSRSMTMEKYFREWKLEAGY

>sp|Q96SD1|DCR1C\_HUMAN Protein artemis OS=Homo sapiens GN=DCLRE1C PE=1 SV=2

MSSFEGQMAEYPTISIDRFDRENLRARAYFLSHCHKDHMKGLRAPTLKRRLECSLKVYLY  
CSPVTKELLLTSPKYRFWKRIISIEIETPTQISLVDEASGEKEEIVVTLLPAGHCPGSV  
MFLFQNGNGTVLYTGDFRLAQGEAARMELLHSGGRVKDIQSVYLDTTFCDFRPFYQIPSRE  
ECLSGVLELVRSWITRSPYHVWLNCKAAYGYEYLFNTLSEELGVQVHVNKLDMFRNMPE  
ILHHLTDRNTQIHACRHPKAEYFQWSKPCGITSRNRIPLHIISIKPSTMWFGERSRK  
TNVIVRTGESSYRACFSFHSSYSEIKDFLSYLCVPVNAYPNVIPVGTMDKVVEILKPLCR  
SSQSTEPKYKPLGKLKRARTVHRDSEEDDYLFDDPLPIPLRHKVPYPETFHPEVFSMTA  
VSEKQPEKLRQTPGCCRAECMQSSRFTNFVDCEESNSESEEEVGIPASLQGDGSLVHLQ  
KADGDPVQWEVFFKRNDIEITDESLENFPSSTVAGGSQSPKLFSDSDGESTHISSQNSSQS  
THITEQSGQWDSQSDTVLLSSQERNSGDITSLDKADYRPTIKENIPASLMEQNVICPKD  
TYSDLKSRDKDVTIVPSTGEPTLSSETHIPEEKSLNLSNADSSSSDFEVPSTPEAE  
LPKREHLQYLYEKLATGESIAVKKRKCSLLDT

>sp|Q5T1A1|DCST2\_HUMAN DC-STAMP domain-containing protein 2 OS=Homo sapiens GN=DCST2 PE=2  
SV=2

MPKVMKDVVHPLGGEEPSMARAVVRVSGGFTLGLSLATAYGLLELLVEGHSPWGCLVGTL  
TLAAFLSLGMGFSRQVRATVLLLLPQAFSRQGRLLLLVAAFGLVLQGPCANTLRNFTRAS  
EAVACGAELALNQTAEVLRQAKQPLVSALNKIKAIARKTKEVADRVRKFFRSIMDGVKHI  
ARALRNWQWLLHIGDVCNSELGNPYLKCARVFDDAKDSCMMVIPQAYHLCYVLMFPKLA  
LCGLASLVQVFCVIPKYIQPFRLQTIGTPVIQLLNVRVQEFEFNMTATHHFSVDLNASRS  
LSQVAMDLEAVSMKLHRVREALALMGFTTPLLVLVLYLQALFYRYCYLNWDHYDNIYIT  
SRFLRMEAVRSTAGLPTVLPLSAHEARRYIPPGSIFLSQWEKFFYILETFNLIRHLLLVL

FLVFLDYAVFWLRLARHQLQGEIVARSPVLVSLTVEGTGYAGNIYRDLVSAFDVLQQGN  
ISILSRRCLLRPSEPSTGYIVIGVMYGLCFITLFGSYVSRLRRVICASYPSREQERI  
SYLYNVLLSRRTNLLAALHRSVRRRAADQGHRS AFLVLASRCPLGPFVSHFWLHAYCL  
GCGQPQDEGMENTVSCSTPGCQGLYCLTCFRLLDNTCSVCASPLSYQGDLDELDSSDE  
EGPQLWLAQAQRKDPEQAWLLQQQLQEVLRSLSMESTSESSDLDEEKGPQQRKHGQQPL  
PEAHQPVSILTSPEPHRPPETSSATKGAPTASEPSVPLSPPSLPDPSPHPPPK

>sp|Q9H295|DCSTP\_HUMAN Dendritic cell-specific transmembrane protein OS=Homo sapiens  
GN=DCSTAMP PE=1 SV=1

MGIWTSGETDIFLSLWEIYVSPRSPGWMDFIQHLGVCCLVALISVGLLSVAACWFLPSIIA  
AAASWIITCVLLCCSKHARCFILLVFLSCGLREGRNALIAAGTGIVILGHVENIFHNFKG  
LLDGMTCNLRKSFSLHFP LLKKYIEAIQWIIYGLATPLSVFDDLVSNNQTLAVSLFSPSH  
VLEAQLNDSKGEVLSVLYQMATTTEVLSSLGQKLLAFAGLSLVLLGTGLFMKRFLGPCGW  
KYENIYITRQFVQFDERERHQQRPCVLP LNKEERRKYVIIPTFWPTPKERKNLGLFFLP  
LIHLCIWVLF AAVDYLLYRLIFSVSKQFQSLPGFEVHLKLHGEKQGTQDIIHDSFNISV  
FEPNCIPKPKFLLSETWVPLSVILLILVMLGLLSSILMQLKILVSASFYPSVERKRIQYL  
HAKLLKKRSKQPLGEVKRRLSLYLTKIHFWLPVLKMIRKKQMDMASADKS

>sp|Q13561|DCTN2\_HUMAN Dynactin subunit 2 OS=Homo sapiens GN=DCTN2 PE=1 SV=4

MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDAEELTSTSVEHII VNPNAAYDKFKDK  
RVGTKGLDFSDRIGTKRTGYESGEYEMLGEGLVKETPQQKYQRLLEHVQELTTEVEKI  
KTTVKESATEEKLTPVLLAKQLAALKQQLVASHLEKLLGPDAAINLTDPDGALAKRLLQ  
LEATKNSKGGSGGKTTGTPDSSLVTYELHSRPEQDKFSQAQVAELEKRLTELETAVRC  
DQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVEARLQSVLGKVNEIAKHKASV  
EDADTQSKVHQLYETIQRWSP IASTLPELVQRLVTIKQLHEQAMQFGQLLTHLDTTQMI  
ANSLKDNTTLLTQVQTTMRENLATVEGNFASIDERMKKLGK

>sp|O60759|CYTIP\_HUMAN Cytohesin-interacting protein OS=Homo sapiens GN=CYTIP PE=1 SV=2

MSLQRLQLQHSSNGNLADFCAGPAYSSYSTLTGSLTMDNRRIQMLADTVATLPRGRKQLA  
LTRSSSLSDFSWSQRKLVTVKQDNETFGFEIQSYRPQNNACSSSEMFTLICKIQEDSPA  
HCAGLQAGDVLANINGVSTEGFTYKQVVDLIRSSGNLLTIETLNGTMILKRTELEAKLQV  
LKQTLKQKWVEYRSLQLQEHRLLHGDAANCPSLENMDLDEL SLFGPLPGPGPALVDRNRL  
SSESSCKSWLSSMTDSEDGYQTCVSEDSSRGAFSRQTSTDDECFIPKEGDDFLRRSSSR  
RNRSISNTSSGSMSPWEGNLSSMFGTLPRKSRKGSVRKQLLKFIPLHRAVEEEESRF

>sp|Q9H1C7|CYTM1\_HUMAN Cysteine-rich and transmembrane domain-containing protein 1  
OS=Homo sapiens GN=CYSTM1 PE=1 SV=1

MNQENPPYPGPGPTAPYPYPYPQPMGPGPMGGPYPPQGYPYQGYQYGVWQGGPQEPPK  
TTVYVVEDQRRDELGPSTCLTACWTALCCCCLDMLT

>sp|Q15828|CYTM\_HUMAN Cystatin-M OS=Homo sapiens GN=CST6 PE=1 SV=1

MARSNLPLALGLALVAFCLLALPRDARARPQERMVGELRDLSPDDPQVQAAQAAVASYN  
MGSNSIYYFRDTHIIKAQSQLVAGIKYFLTMEMGSTDCRKTTRVTGDHVDLTTCPLAAGAQ  
QEKLRCDFEVLVVPWQNSSQLLKHNCVQM

>sp|Q6NXN4|D19P1\_HUMAN Putative C-mannosyltransferase DPY19L2P1 OS=Homo sapiens  
GN=DPY19L2P1 PE=2 SV=1

MKKQGVNPKPLQSSRPSKRPYGASPAARELEVEKSALGGGKLPGGARRSSPGRIPNLKK  
RKGLELKVVAKTLDPFQFVRNSLAQLREEVHELQARWFPSRTTSLIAIFVAILHWHLV  
TLFENDRHFSHLSSLEWEMTFRTKMGLYYSYFKTII EAPSFLEGLWMIMNDRLTEYPLVI

NTVKRFHLYPEV IIAAWYRTFIGIMNLFGLETKCWNVTRIEPLNEFKAVKDWEILLAFM  
LV

>sp|Q9Y4D1|DAAM1\_HUMAN Disheveled-associated activator of morphogenesis 1 OS=Homo sapiens  
GN=DAAM1 PE=1 SV=2

MAPRKRGGRGISFIFCCFRNNDHPEITYRLRNDNFALQTMEPALPMPPEELDVMFSEL  
VDELDLTDKHREAMFALPAEKKWQIYCSKKKQDEENKGATSWPEFYIDQLNSMAARKSLL  
ALEKEEEEERSKTIESLKTALRTKPMRFVTRFIDLGLSCILNFKTMDYETSESRIHTS  
LIGCIKALMNNSQGRAHVLAHSESINVIAQSLSTENIKTKVAVLEILGAVCLVPGGHKKV  
LQAMLHYQKYASERTRFQTLINDLDKSTGRYRDEVSLKTAIMSFINAVLSQGAGVESLDF  
RLHLRYEFLMLGIQPVIDKLREHENSTLDRHLDFFEMLRNEDELEFAKRFELVHIDTKSA  
TQMFELTRKRLTHSEAYPHFMSILHHCLQMPYKRSGNTVQYWLLLDRI IQQIVIQNDKGQ  
DPDSTPLENFNIKNVVRMLVNENEVKQWKEQAEKMRKEHNELQQKLEKKERECDAKTQEK  
EEMMQTLNKMKEKLEKETTEHKQVKQVADLTAQLHELSRRAVCASIPGGPSPGAPGGPF  
PSSVPGSLLPPPPPPPLPGGMLPPPPPLPPGGPPPPPGPPPLGAIMPPPGAPMGLALKK  
KSIPQPTNALKSFNWSKLPENKLEGTVWTEIDDTKVFKILDLEDLERTFSAYQRQQDFV  
NSNSKQKEADAIDDTLSSKLKVKELSVIDGRRACQNCNILLSRLKLSNDEIKRAILTMDEQ  
EDLPKDMLEQLLKVFPEKSIDDLLEEHKHELDMAKADRFLFEMSRINHYQQRLQSLYFK  
KKFAERVAEVKPKVEAIRSGSEEVFRSGALKQLLEVVLAFGNMNGQQRGNAYGFKISSL  
NKIADTKSSIDKNITLLHYLITIVENKYPSVLNLNEELRDIPQAAKVNMTELDKEISTLR  
SGLKAVETELEYQKSQPPQPGDKFVSVVSQFITVASFSFSDVEDLLAEAKDLFTKAVKHF  
GEEAGKIQPEFFGIFDQFLQAVSEAKQENENMRKKKEEEEERRARMEAQLKEQREERERKM  
RKAKENSEESGEFDDLVSALRSGEVFDKDL SKLKRNRKRITNQMTDSSRERPITKLN

>sp|O75553|DAB1\_HUMAN Disabled homolog 1 OS=Homo sapiens GN=DAB1 PE=1 SV=3

MSTETELQVAVKTSAKKDSRKKGQDRSEATLIKRFKGEVRYKAKLIGIDEVSAARGDKL  
CQDSMMKLKGVVAGARSKGEHKQKIFLTISFGGIKIFDEKTGALQHHHAVHEISYIAKDI  
TDHRAFGYVCGKEGNHRFVAIKTAQAAEPVILDLRDLFQLIYELKQREELEKKAQKDKQC  
EQAVYQTILEEDVEDPVYQYIVFEAGHEPIRDPETEENIYQVPTSQKKEGVYDVPKSQPV  
SNGYSFEDFEERFAAATPNRNLPTDFDEIFEATKAVTQLELFGDMSTPPDITSPPTPATP  
GD AIPSSSQTLPASADVFSVPFGTAAPVSGYVAMGAVLPSFWGQQLVQQQMVMGAQP  
PVAQVMPGAQPIAWGQPLFPATQQPWPTVAGQFPAAFMPTQTVMPLPAAMFQGPLTPL  
ATVPGTSDSTRSSPQTDKPRQKMGKETFKDFQMAQPPVP SRKPDQPSLTCTSEAFSSYF  
NKGVAQDTDDCDFDISQLNLTPVTSTTPSTNSPPTAPRQSSPSKSSASHASDPTTDD  
IFEEGFESPSKSEEQEPDGSQASSNSDPFGEPSPGSGDNISQAGS

>sp|Q96B18|DACT3\_HUMAN Dapper homolog 3 OS=Homo sapiens GN=DACT3 PE=1 SV=2

MIRAFSFPVSPERGRLRGWLEGLAGLCELHWLRERQEYRVQQALRLAQPGMGAEAEDE  
EDADEDEDAARAAAAALEEQLEALPGLVWDLGQQLGDLSESGGLEQESGRSSGFYED  
PSSTGGPDSPSTFCGDSGFSGSSSYGRLGPSEPRGIYASERPKSLGDASPSAPEVVGAR  
AAVPRFSAPYPTAGGSAGPEACSSAERRARAGPFLTPSPLHAVAMRSRPRCGRPPTDSP  
DAGGAGRPLDGYISALLRRRRRRGAGQPRTPSGGADGGPRRQNSVRQRPPDASPSPGSAR  
PAREPSLERVGGHPTSPAALSRAWASSWESEAAPEPAAPPAAPSPPDSPAEGRLVKAQYI  
PGAQAATRGLPGRAARRKPPPLTRGRSVEQSPPRERPRAGRRGRMAEASGRRGSPRARK  
ASRSQSETSLLGRASAVPSGPPKYPTAEREEPRPPRRGPAPTAAQAAGSCRRWRSTA  
EIDAADGRRVRPRAPAAVPGPGSPSAPQRRLLYGCAGSDSECSAGRLGPLGRRGPAGG  
VGGGYGESESSASEGESPAFSSASSDSDGSGGLVWPQQLVAATAASGGGAGAGAPAGPAK



VFVKIKASHALKKKILFRSGSLKVMTTV

>sp|P59103|DAOA\_HUMAN D-amino acid oxidase activator OS=Homo sapiens GN=DAOA PE=1 SV=2  
MLEKLMGADSLQLFRSRYTLGKIYFIGFQRSILLSKSENSLNSIAKETEEGRETVTRKEG  
WKKRRHEDGYLEMAQRHLQSRSLCPWVSYPYPYAELEEVS HVGKVF MARNYEFLAYEASK  
DRRQPLERMWTCNYNQQKDQSCNHKEITSTKAE

>sp|Q9P219|DAPLE\_HUMAN Protein Daple OS=Homo sapiens GN=CCDC88C PE=1 SV=3  
MDVTVSELLELFLQSPLVTWVKTFGPFSGSQDNLTMYMDLVDGIFLNQIMLQIDPRPTN  
QRINKHVNNVDNLRINLTILVRNIKTYQEV LQQLIVMNL PNVLMIGRDPLSGKSMEEI  
KKVLLLVLGCAVQCERKEEFIERIKQLDIETQAGIVAHIQEVTHNQENVFDLQWLELPDV  
APEELEALSRSMLHLRRLIDQRDECTELIVDLTQERDYLQAQHPPSPIKSSADSTPSP  
TSSLSEDKQHLAVELADTKARLRVRQELEDKTEQLVDTRHEVDQLVLELQKVKQENIQ  
LAADARSARAYRDELDSLREKANRVERLELELTRCKEKLHDVDFYKARMEELREDNII LI  
ETKAMLEEQLTAARARGDKVHELEKENLQLKSKLHDLELDRDTDKKRIEELLEENMVLEI  
AQKQSMNESAHLGWELEQLSKNADLSDASRKS FVFELNECASSRILKEKENQSLQSTIQ  
GLRDASLVLEESGLKCGELEKENHQLSKKIEKLQTLEREKQSNQDLETLSEELIREKEQ  
LQSDMETLKADKARQIKDLEQEKDHLN RAMWSLRERSQVSSEARMKDVEKENKALHQTVT  
EANGKLSQLEFEKRQLHRDLEQAKEKGERAEKLERELQRLQEENGRLARKVTSLETATEK  
VEALEHESQGLQLENRTL RKS LDTLQNVSLQLEGLERDNKQLDAENLELRRLVETMRFTS  
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KTQTLESELGELEAERQALRRDLEALRLANAQLEGAEKDRKALEQEVAQLEKDKKLEKE  
AKRLWQQVELKDAVLDDSTAKLSAVEKESRALDKELARCRDAAGKLEKEKDNRDLTKQV  
TVHARTLTTLREDLVLEKLKSQQLSSELDKLSQELEKVGLNRELLQEDDSGSDTKYKIL  
EGRNESALKTTLAMKEEKIVLLEAQMEEKASLN RQLESELQMLKKECETLRQNQGEGQHL  
QNSFKHPAGKTAASHQKEAWGPGHKEATMELLRVKDRAIELERNNAALQAEKQLLKEQL  
QHLETQNVTFSSQILTLQKQSAFLQEHNTTLQTQAKLQVENSTLSSQSAALTAQYTLLQ  
NHHTAKETENESLQRQEQQLTAAYEALLQDHEHLGTLHERQSAEYEALIRQHSCLKTLHR  
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VNFLHHQLKGEEYELHAHTKELKTS LNNAQLELNRWQARFDELKEQHQTMDISLTKLDNH  
CELLSRLKGNLEENHHLLSQIQLLSQQNQMLLEQN MENKEQYHEEQKYIDKLNALRRH  
KEKLEEKIMDQYKFYDPPPKKNHWIGAKALVKLIKPKKEGSRERL KSTVDSPPWQLESS  
DPASPAASQPLRSQAENPDTPALGSNCAEERDAHNGSVGKGPGDLKPKRGSPHRGSLDRT  
DASTDLAMRSWPSELGSRTCSTSATTTAPS NSTPIARHPGRTKGYN SDDNLCEPSLEFEV  
PNHRQYVSRPSSLESSRNTSSNSSPLNLKGSSEQLHGRSESFSS EDLIPSRDLATLPREA  
STPGRNALGRHEYPLPRNGPLPQEGAQKRGTAPPYVGVRPCSASPSEMVTLEEFLEESN  
RSSPTHDTPSCRD DLLSDYFRKASDPPAIGGQGP PAKKEGAKMPTNFVAPTVMMAPTS  
EGRPLKPGQYVKPNFRLTEAEAPPSVAPRQAQPPQSLSLGRPRQAPVPPASHAPASRSAS  
LSRAFSLASADLLRASGPEACKQESPQKLG APEALGGRETGSHTLQSPAPPSHSLARER  
TPLVGKAGSSCQGPGRSRPLDTRRFS LAPPKEERLAPLHQ SATAPAIATAGAGAAAAGS  
GSNSQLLHFSPAAAPAARTKPKAPPRS GEVATITPVRA GLSLSEG DGVPGQGCSEGLPAK  
SPGRSPDLAPHLGRALEDCSRGSVSKSSPASPEPGDPQT VVWEYEGCV

>sp|Q9UER7|DAXX\_HUMAN Death domain-associated protein 6 OS=Homo sapiens GN=DAXX PE=1 SV=2  
MATANSIIVLDDDDDEDEAAAQPGPSHPLPNAASPGAEAPSSSEPHGARGSSSSGGKKCYK  
LENEKLFEFLELCKMQTADHPEVVPFLYNRQQRAHSLFLASAEFCNLSRVLSRARSRP  
AKLYVYINELCTVLKAHSAKKKLNLAPAATTSNEPSGNNPPTHLSLDPTNAENTASQSPR

TRGSRRQIQRLQLLALYVAEIRRLQEKELDLSELDDPD SAYLQEARLKRKLIRLFGRLC  
ELKDCSSLTGRVIEQRIPYRGTRYPEVNRRIERLINKPGPDTFPDYGDVLR AVEKAAARH  
SLGLPRQQLQLMAQDAFRDVGIRLQERRHLDLIYNFGCHLTDDYRPGVDPALSDPVLARR  
LRENRLAMSRLDEVISKYAMLQDKSEEGERKKRRARLQGTSSHSADTPEASLDSGEGPS  
GMASQGCPSASRAETDDEDDEESDEEEEEEEEEEEATDSEEEEDLEQMQEGQEDDEEE  
DEEEAAAAGKDGDKSPMSSLQISNEKNLEPGKQISRSSGEQQNKGRIVSPSLLSEEPLAP  
SSIDAESNGEQPEELTLEESPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTV  
LENGAGMVSSTSFNGGVSPHNWGDGPPCKKSRKEKKQTGSGPLGNSYVERQRSVHEKNG  
KKICTLPSPPSPLASLAPVADSSTRVDSPSHGLVTSSLCIPSPARLSQTPHSQPPRPGTC  
KTSVATQCDPEEIIVLSDSD

>sp|Q30KQ5|DB115\_HUMAN Beta-defensin 115 OS=Homo sapiens GN=DEFB115 PE=3 SV=1  
MLPDHFSPLSGDIKLSVLALVVLVLAQTAPDGWIRRCYYGTGRCKRSCKEIERKKEKCG  
EKHICCVPEKDKLSHIHDQKETSELYI

>sp|Q8N690|DB119\_HUMAN Beta-defensin 119 OS=Homo sapiens GN=DEFB119 PE=2 SV=2  
MKLLYLFLAILLAIEEPVISGKRHLRCMGN SGICRASCKNEQPPLYCRNCQSCCLQSY  
MRISISGKEENTDWSYEKQWPRLP

>sp|Q9UJU6|DBNL\_HUMAN Drebrin-like protein OS=Homo sapiens GN=DBNL PE=1 SV=1  
MAANLSRNGPALQEAYVRVTEKSPTDWALFTYEGNSNDIRVAGTGEGGLEEMVEELNSG  
KVMYAFCRVKDPNSGLPKFVLINWTGEGVNDVRKGACASHVSTMASFLKGAHVTINARAE  
EDVEPECIMEKVAKASGANYSFHKESGRFQDVGPPQAPVGSVYQKTNVSEIKRVGKDSFW  
AKAEKEENRRL EEKRAEEAQRQLEQERRERELREARREQRYQEQQGEASPQRTWEQQ  
QEVVSRNRNEQESAVHPREIFKQKERAMSTTSISSPQPGKLRSPFLQKLTQPETHFGRE  
PAAAI SRPRADLPAEEPAPSTPPCLVQAEAAVEEPPPEQETFYEQPPLVQQQGAGSEHI  
DHHIQGGQLSGQGLCARALYDYQAADDEISFDPENLITGIEVIDEGWWRGYGPDGHFGM  
FPANYVELIE

>sp|A6NMT0|DBX1\_HUMAN Homeobox protein DBX1 OS=Homo sapiens GN=DBX1 PE=3 SV=2  
MMFPGLLAPPAGYPSLLRPTPTLTLPQSLQSAFSGHSSFLVEDLIRISRPAYLPRSVPT  
ASMSPPRQGAPTALTDTGASDLGSPGPGSRRGSGPPTAFSPASETTFLKFGVNAILSSGP  
RTETSPALLQSVPPKTFAPFPYFEGSFQPFIRSSYFPASSSVVPIPGTFSWPLAARGKPRR  
GMLRRAVFSVDVQRKALEKMFQKQKYISKPD RKKLAAKLGLKDSQVKIWFQNRMRKWRNSK  
ERELSSGGCREQTLPTKLNPHPLSDVGQKGPNEEEEGPGSPSHRLAYHASSDPQHL  
RDPRLPGPLPPSPAHSSSPGKPSDFSDEEEEGEEQEEITVS

>sp|Q8TCX1|DC2L1\_HUMAN Cytoplasmic dynein 2 light intermediate chain 1 OS=Homo sapiens  
GN=DYNC2LI1 PE=1 SV=1

MPSETLWEIAKAEVEKRGINGSEGDGAEIAEKVFFIGSKNGGKTTIILRCLDRDEPPKP  
TLALEYTYGRRAKGHNTPKDIAHFWELGGGTSLLDLISIPITGDTLRTFSLVLVLDLSKP  
NDLWPTMENLLQATKSHVDKVIMKLGKTNAKAVSEMRQKIWNMPKDHDPHELIDPFPVP  
LVIIGSKYDVFDQDFESEKRVICKTLRFVAHYYGASLMFTSKSEALLKIRGVINQLAFG  
IDKSKSICVDQNKPLFITAGLDSFGQIGSPVPENDIGKLHAHSPMELWKKVYEKLFPPK  
SINTLKDIKDPADPQYAENEVDEMRIQKDLELEQYKRSSSKSWQIELDS

>sp|Q8TEB1|DCA11\_HUMAN DDB1- and CUL4-associated factor 11 OS=Homo sapiens GN=DCAF11 PE=1  
SV=1

MGRNSSSAGSGSDPSEGLPRRGAGLRREEEEEDEDDVLAQVLAYLLRRGQVRLVQG  
GGAANLQFIQALLDSEEENDRAWDGRLGDRYNPPVDATPD TRELEFNEIKTQVELATGQL

GLRRAAQKHSFPRMLHQRERGLCHRGFSLSGEQSRVISHFLPNDLGFTDSYSQKAFCGIY  
SKDGQIFMSACQDQTIIRLYDCRYGRFRKFKSIKARDVGWSVLDVAFTPDGNHFLYSSWSD  
YIHICNIYEGEDTHTALDLRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRT  
LQIESHEDDVNAFAFADISSQILFSGGDDAICKVWDRRTMREDDPKPVGALAGHQDGITF  
IDSKGDARYLISNSKDQTIKLWDIRRFSSREGMEASQAATQQNWDYRWQQVPPKAWRKL  
KLPGDSSLMTYRGHGVHLTLIRCRFSPIHSTGQQFIYSGCSTGKVVVYDLLSGHIVKKLT  
NHKACVRDVSWHPFEEKIVSSSWDGNLRLWQYRQAEYFQDDMPESEECASAPAPVPQSST  
PFSSPQ

>sp|Q9NV06|DCA13\_HUMAN DDB1- and CUL4-associated factor 13 OS=Homo sapiens GN=DCAF13 PE=1  
SV=2

MKVKMLSRNPDNYVRETKDLQVRPNYDPALHPFEVPREYIRALNATKLERVFAKPFLA  
SLDGHRDGVNCLAKHPEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRFC  
GTSFFTVDGDKTVKQWKMDGPGYGDEEEPLHTILGKTVYTGIDHHWKEAVFATCGQQVDI  
WDEQRTNPICSMTWGFDSSISVKFNPIETFLLGSCASDRNIVLYDMRQATPLKKVILDMR  
TNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVSALVDVDSPTGKEFVSA  
SFDKSIRIFPVDKSRSEVYHTKRMQHVICVKTSDSKYIMCGSDEMNIWLKANASEKL  
GVLTGREKAADYNQKLKEKFQHYPHIKRIARHRHLPKSIYSQIQEQIRIMKEARRRKEVN  
RIKHSKPGSVPLVSEKKKHVVAVVK

>sp|P17707|DCAM\_HUMAN S-adenosylmethionine decarboxylase proenzyme OS=Homo sapiens  
GN=AMD1 PE=1 SV=2

MEAAHFFEGTEKLLLEVWFSRQQPDANQSGDLRTIPRSEWDILLKDVQCSIISVTKTDKQ  
EAYVLESSESMFVSKRRFILKTCGTLLLLKALVPLLKLARDYSGFDSIQSFFYSRKNFMKP  
SHQGYPHRNFQEEIEFLNAIFPNGAAYCMGRMNSDCWLYTLDFPESRVISQPDQTLLEIL  
MSELDPAVMDQFYMKDGVTAKDVTRESGIRDLPISVIDATMFNPGYSMNGMKSDGTYW  
TIHITPEPEFSYVSFETNLSQTSYDDLIRKVVEVFKEPGKFVTTLFVNQSSKCRVTLASPQ  
KIEGFKRLDCSAMFNDYNFVFTSFAKKQQQQQS

>sp|Q5T1V6|DDX59\_HUMAN Probable ATP-dependent RNA helicase DDX59 OS=Homo sapiens GN=DDX59  
PE=1 SV=1

MFVPRSLKIKRNANDDGKSCVAKIIKDPEDLQLDKSRDVPVDAVATEAATIDRHISESC  
PFPSPGGQLAEVHSVSPEQGAKDSHPSEEPVKSFSKTQRWAEPGEPICVVCGRYGEYICD  
KTDEDVCSLECKAKHLLQVKEKEEKSLSNPQKADSEPEPLNASYVYKEHPFILNLQED  
QIENLQQLGILVQGGQEVTRPIIDFEHCSLPEVLNHNLLKSGYEVPTPIQMOMIPVGLLG  
RDILASADTGSGKTAFLPVIMRALFESKTPSALILTPRELAIQIERQAKELMSGLP  
MKTVLLVGGPLPPQLYRLQQHVKVIATPGRLLDIKQSSVELCGVKIVVDEADTMLK  
MGFQQQVLDILENIPNDQQTILVSATIPTSIEQLASQLLHNPVRIITGEKNLPCANVRQI  
ILWVEDPAKKKKLFEILNDKKLFKPPVLVFDCKLGADLLSEAVQKITGLKSISIHSEKS  
QIERKNILKGLLEGDYEVVVSTGVLGRGLDLISVRLVNFDMPPSSMDEYVHQIGRVGRLG  
QNGTAITFINNSKRLFWDIKRVKPTGSILPPQLNSPYLHDQKRKEQQKDKQTQNDLV  
TGANLMDIIRKHKDSNSQK

>sp|Q8WUY9|DEP1B\_HUMAN DEP domain-containing protein 1B OS=Homo sapiens GN=DEPDC1B PE=1  
SV=2

MEHRIVGPGPYRATRLWNETVELFRKMPLRKHRCRFKSYEHCFATAEAVDWLHELLRCS  
QNFGPEVTRKQTVQLKKFLKNHVEDIKGKGGEEDFEDNRHLYRFPSSPLKPYPKPP  
NQKDVIKFPEWNDLPPGTSQENIPVRPVVMNSEMWYKRHSIAIGVPACRLVHRRQLTEA

NVEEIWKSMTLSYLQKILGLDSLEEVLVDKLVNSKFI IHNVYSVSKQGVVILDDKSKELP  
HWVLSAMKCLANWPNCSDLKQPMYLGFEKDVFKTIADYYGHLKEPLLTFLHFDFAVSVLG  
LLQKEKVAVEAFQICLLLLPPENRRKLQLLMMARICLNKEMPPLCDGFGTRTLMVQTF  
SRCILCSKDEVLDDELLAARLVTFMDNYQEILKVPLALQTSIEERVAHLRRVQIKYPGA  
DMDITLSAPSFQRQISPEEFQYRSYGSQEPLAALLEEVITDAKLSNKEKKKKLQFQKS  
YPEVYQERFPTPESAALLFPEKPKPKPQLLMWALKKPFQPFQRTSRFRM

>sp|Q9NTK1|DEPP\_HUMAN Protein DEPP OS=Homo sapiens GN=DEPP PE=1 SV=2  
MRSRLLSVAHLPTIRETTEMLLGGPGQEPSPSLDDYVRSISRLAQPTSVLDKATAQ  
GQPRPPHRPAQACRKGPAVSLRDITARFSGQPTLPMADTVDPDLWLFGESQEKQPSQR  
DLPRRTGPSAGLWGPQRMDSSKPMGAPRGRLCEARMPGHSLARPPQDGGQSSDLRSWTF  
GQSAQAMASRHRPRPSSVLRTLYSHLPVIEL

>sp|Q9GZP9|DERL2\_HUMAN Derlin-2 OS=Homo sapiens GN=DERL2 PE=1 SV=1  
MAYQSLRLEYLQIPPVSRAYTTACVLTTAAVQLELITPFQLYFNPELIFKHFQIWRLITN  
FLFFGPVGFNFLNMIFLYRYCRMLEEGSFRGRTADVFVFMFLFGGFLMTLFGFLVSLVFL  
GQAFTIMLVYVWSRRNPYVRMNFGLNFGAPFLPWVLMGFSLLGNSIIVDLLGIAVGH  
IYFFLEDVFPNQGGIRILKTPSILKAIFDTPDEDPNYNPLPEERPGGFAWGEGQRLGG

>sp|Q07507|DERM\_HUMAN Dermatopontin OS=Homo sapiens GN=DPT PE=1 SV=2  
MDLSLLWVLLPLVTMAWGQYGDYGYPYQQYHDYSDDGWVNLNRQGFQYQCPQGQVIVAVR  
SIFSKKEGSDRQWNYACMPTPQSLGEPTECWWEINRAGMEWYQTCNNGLVAGFQSRYP  
ESVLDREWQFYCCRYSKRCPYSCWLTTEYPGHYGEEMDISYNYDYIRGATTTFAVER  
DRQWKFIMCRMTEYDCEFANV

>sp|095424|DEXI\_HUMAN Dexamethasone-induced protein OS=Homo sapiens GN=DEXI PE=2 SV=2  
MLGARVA AHLDALGPLVPYVPPLLPSMFYVGLFFVNVLLIYYAFLMEYIVLNVGLVFLP  
EDMDQALVDLGVLSDPGSGLYDADSELDVFDAYLE

>sp|060443|DFNA5\_HUMAN Non-syndromic hearing impairment protein 5 OS=Homo sapiens  
GN=DFNA5 PE=1 SV=2  
MFAKATRNLREVADAGDLIAVSNLNSDKLQLLSLVTKKKRFWCWQRPKYQFLSLTLGD  
VLIEDQFPSPVVVESDFVKYEGKFANHVSGTLETALGKVKLNLGGSSRVESQSSFGTLRK  
QEVDLQQLIRDSAERTINLRNPVLQQVLEGRNEVLCVLTQKITTMQKCVISEHMQVEEK  
GGIVGIQTKTVQSATEDGNVTKDSNVVLEIPAATTIAYGVIELYVKLDGQFEFCLLRGK  
QGGFENKKRIDSVYLDPLVFREFAFIDMPDAAHGISSQDGPLSVLKQATLLERNFHPFA  
ELPEPQQTALSDIFQAVLFDELLMVLEPVCDDLVSGLSPTVAVLGELKPRQQDLVAF  
QLVGCSLQGGCPGEDAGSKQLFMTAYFLVSALAEMPDSAAALLGTCKLQIIPTLCHLL  
RALSDDGVSDELDPTLTPLKDTFRFGIVQRLFASADISLERLKSSVKAVILKDSKVFP  
LLLCITLNLGALGREHS

>sp|Q6ZPD8|DG2L6\_HUMAN Diacylglycerol O-acyltransferase 2-like protein 6 OS=Homo sapiens  
GN=DGAT2L6 PE=2 SV=1  
MAFFSRLNLQEGQTFFVLQWIPVYIFLGAIPILLIPYFLLFSKFWPLAVLSLAWLTYDW  
NTHSQGRRSAWVRNWLWKYFRNYFPVKLVKTHDLSPKHNYIIANHPHGILSFGVFINF  
ATEATGIARIFPSITPFVGTLEIFWIPIVREYVMSMGVCPVSSSALKYLLTQKGSNAV  
VIVVGAAEALLCRPGASTLFLKQRKGFKMALQTGAYLVPSYSFGENEVFNQETPPEGT  
WLRLFQKTFQDTFKILGLNFCTFHGRGFTRGSWGFNRPITTVVGEPLPIPRIKRN  
QKTVDKYHALYISALRKLFDQHKVEYGLPETQELTIT

>sp|Q96PD7|DGAT2\_HUMAN Diacylglycerol 0-acyltransferase 2 OS=Homo sapiens GN=DGAT2 PE=1 SV=2

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RSKVEKQLQVISVLQWVLSFLVLGVACSAILMYIFCTDCWLI AVL YFTWL VFDWNTPKKG  
GRRSQWVRNWAVWRYFRDYFPIQLVKTHNLLTTRNYIFGYHPHGIMGLGAF CNFSTEATE  
VSKKFPGIRPYLATLAGNFRMPVLREYLMSSGGICPVSRDTIDYLLSKNGSGNAIIIVVGG  
AAESLSSMPGKNAVTLNRNKGFKLALRHGADLVPIYSFGENEVYKQVIFEEGSWGRWVQ  
KKFKYIGFAPCIFHGRGLFSSDTWGLVPYSKPITTVGEPITIPKLEHPTQQDIDLYHT  
MYMEALVKLFDKHKTKFGLPETEVLEVN

>sp|Q9Y6T7|DGKB\_HUMAN Diacylglycerol kinase beta OS=Homo sapiens GN=DGKB PE=2 SV=2

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EGFKLFMKTFLAEPLDDFTAHLFMSFSNKFPHSSPMVSKPALLSGGLRMNKGAITPPR  
TTSPANTCSPEVIHLKDIVCYLSLLERGRPEDKLEFMFRLYD TDGNGFLDSSELENIISQ  
MMHVAEYLEWDVTELNPILHEMMEEIDYDHDGTVSLEEWIQGGMTTIPLLVLLGLENNVK  
DDGQHVWRLKHFNPAYCNLCLNMLIGVGKQGLCCSFCKYTVHERCVARAPPSCIKTYVK  
SKRNTDVMHHYWVEGNCPTKCDKCHKTVKCYQGLTGLHCVWCQITLHNKCASHLKPECDC  
GPLKDHLPPTTICPVVLQTLPTSGVSVPEERQSTVKKEKSGSQPNKVIDKNMQRANS  
VTVDGQGLQVTPVPVGTPLLVFNPKSGGKQGERIYRKQYLLNPRQVYSLSGNGPMPGL  
NFFRDVPDFRVLACGGDGTGVWVLDIEKANVGKHPVAILPLGTGNDLARCLRWGGGYE  
GENLMKILKDIENSTEIMLDRWKFEVIPNDKDEKGDVPVYSIINNYFSIGVDASIAHRFH  
IMREKHPEKFNSRMKNKFWYFEFGTSETFSATCKKLHESVEIECDGVQIDLINISLEGIA  
ILNIPSMHGGSNLWGESKKRRSHRRIEKKGSDKRTTVTDAKELKFASQDLSQDLEVVGL  
EGAMEMGQIYTGLKSAGRRLAQCSQCVVIRTSKSLPMQIDGEPWMQTPCTIKITHKNQAPM  
LMGPPPKTGLFCSLVKTRNRSKE

>sp|Q8NCG7|DGLB\_HUMAN Sn1-specific diacylglycerol lipase beta OS=Homo sapiens GN=DAGLB PE=1 SV=2

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VLMILLAVVICTVSAIMCVSMRGITCNPGPRKSMKLLYIRLALFFPEMVWASLGAAWVA  
DGVQCDRTVVNGIIATVVVSWIIIAATVVSIIIVFDPLGGKMAPYSSAGPSHLDSDHSSQ  
LLNGLKTAATSVWETRIKLLCCIGKDDHTRVAFSSTAELFSTYFSDTDLVPSDIAAGLA  
LLHQQQDNIRNNQEPAAQVVC HAPGSSQEADLDAELENCHHYMQFAAAAYGWPLYIYRNPL  
TGLCRIGGDCCSRRTDYDLVGGDQLNCHFGSILHTTGLQYRDFIHVSFHDKVYELPFLV  
ALDHRKESVVAVRGTMSLQDVLTDLSAESEVLDVECEVQDRLAHKGISQAARYVYQRLI  
NDGILSQAFSIAPEYRLVIVGHSLGGGAAALLATMLRAAYPVRCYAFSPPRGLWSKALQ  
EYSQSFIVSLVLGKDVIPRLSVTNLEDLKRRIILRVVAHCNPKYKILLHGLWYELFGGNP  
NNLPTELDGGDQEVLTQPLLGEQSLLTRWSPAYSFSSDSPLDSSPKYPPLYPPGRIIHLQ  
EEGASGRFGCCSAAHYSAKWSHEAEFSKILIGPKMLTDHMPDILMRALDSVVSDRAACVS  
CPAQGVSSVDVA

>sp|P19113|DCHS\_HUMAN Histidine decarboxylase OS=Homo sapiens GN=HDC PE=1 SV=2

MMEPEEYRERGREMVDYICQYLSTVRERRVTPDVQPGYLAQLPESAPEDPDSWDSIFGD  
IERIIMPGVVHWQSPHMHAYYPALTSWPSLLGDMLADAINCLGFTWASSPACTELEMNVM  
DWLAKMLGLPEHFLHHHPSSQGGGVLQSTVSESTLIALLAARKNKILEMKTSEPDADESC  
LNARLVAYASDAQHSSVEKAGLISLVKMKFLPVDDNFSLRGEALQKAIEEDKQGRGLVPVF  
VCATLTGTVCAFDCLSELGPICAREGLWLHIDAAYAGTAFLCPEFRGFLKGIEYADSFT

FNPSKWMVHFDCTGFVVKDKYKLQQTFSVNPIYLRHANSVATDFMHWQIPLSRRFRSV  
KLWVIRSFGVKNLQAHVRHGTEMAKYFESLVRNDPSFEIPAKRHLGLVVFRLKGNCLT  
ENVLKEIAKAGRLFLIPATIQDKLIIRFTVTSQFTTRDDILRDWNLIRDAATLILSQHCT  
SQSPSRVGNLISQIRGARAWACGTSLSVSGAGDDPVQARKIIKQPQRVGAGPMKRENGL  
HLETLLDPVDDCFSEEAPDATKHKLSSFLFSYLSVQTKKKTVRSLSCNSVPVSAQKPLPT  
EASVKNNGSSRVIRFSRFPEDMMMLKKSAFKKLIKFYSVPSFPECSSQCGLQLPCCPLQA  
MV

>sp|Q8TF63|DCNP1\_HUMAN Dendritic cell nuclear protein 1 OS=Homo sapiens GN=DCANP1 PE=1  
SV=1

MHYGAATHIQNSRSHGLETVPGHQRLERGAGGETPEFPGCHSPAPPENFGNELLPLSAPL  
QGLSEGLYPPGRNKTLPAGVLREGAVQFLHRGLCNSNLSSEASARPSGTQDELHSSRRKT  
GQTRREGARKHLVCSFRLYPFTVHTVSPGNLALYQVFKAVKLCPSETSFFLSRSLKS  
SDPWHPPSLSPNSWNRQAGFRAWSSHLISLSLTCSDSQSRRVSSSQPPLHSLSSHRAA  
HVPE

>sp|Q9UJW0|DCTN4\_HUMAN Dynactin subunit 4 OS=Homo sapiens GN=DCTN4 PE=1 SV=1

MASLLQSDRVLYLVQGEKKVRAPLSQLYFCRYCSELRSLECVSHEVDSHYCPSCLNMPS  
AEAKLKNRCANCFDCPGCMHTLSTRATSISTQLPDDPAKTTMKAYYLACGFCRWTSRD  
VGMADKSVASGGWQEPENPHTQRMNKLIEYYQQLAQKEKVERDRKKLARRRNYMPLAFSD  
KYGLGTRLQRPRAGASISTLAGLSLKEGEDQKEIKIEPAQAVDEVEPLPEDYYTRPVNLT  
EVTTLQQRLLQPDFQPVCAQLYPRHKHLLIKRSLRCRCKEHNLSKPEFNPTSIFKFIQL  
VAVNYIPEVRIMSIPLNRYMKESQVLLTLTNPVENLTHVTLFECEEGDPDDINSTAKVVV  
PPKELVLAKGDAAAEYDELAEPQDFQDDPDIIAFRKANKVGIFIKVTPQREEGEVTVCFK  
MKHDFKNLAAPIRPIEESDQGTEVIWLTQHVELSLGPLLP

>sp|P06132|DCUP\_HUMAN Uroporphyrinogen decarboxylase OS=Homo sapiens GN=UROD PE=1 SV=2

MEANGLGPGGFPELKNDTFLRAAWGEETDYPVWCMRQAGRYLPEFRETRAQDFSTCR  
SPEACCELTLQLRRFPLDAAIIFSDILVVPQALGMEVTMVPKGPSFPEPLREEQDLER  
LRDPEVVASELGYVFQAITLTRQLAGRVPLIGFAGAPWTLMTYMVEGGGSSTMAQAKRW  
LYQRPQASHQLLRILTALVPYLVGVVAGAALQLFESHAGHLGPQLFNKFALPYIRDV  
AKQVKARLREAGLAPVPMIIFAKDGHFALEELAQAGYEVVGLDWTVPKKARECVGKTVT  
LQGNLDFCALYASEEEIGQLVKQMLDDFGPHRYIANLGHGLYPDMDPEHVGAFVDAVHKH  
SRLLRQN

>sp|Q9UMR2|DD19B\_HUMAN ATP-dependent RNA helicase DDX19B OS=Homo sapiens GN=DDX19B PE=1  
SV=1

MATDSWALAVDEQEAAAESLSNLHLKEEKIKPDTNGAVVKTNANAECTDEEEKEDRAAQS  
LLNKLIRSNLVDNTNQVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIQE  
NALPLMLAEPQNLIASQSGTGKTAAFVLAMLSQVEPANKYPQCLCLSPTYELALQTGK  
VIEQMKGFPYELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDCWCSKLKFDPKKIKVFF  
LDEADVMATQGHQDQSIRIQRMPLRNCQMLLSATFEDSVWKFQKVPDPNVIKLKRE  
EETLDTIKQYYVLSSRDEKQALCNLYGAITIAQAMIFCHTRKTASWLAAELSKEGHQV  
ALLSGEMMVEQRAAVIERFREGKEKVLVTTNVCARGIDVEQVSVVINFDLPVDKGNPDN  
ETYLHRIGRTGRFGKRGGLAVNMVDSKHSNMNINRIQEHFNKKIERLDTDDLDEIEKIAN

>sp|Q96D03|DDT4L\_HUMAN DNA damage-inducible transcript 4-like protein OS=Homo sapiens  
GN=DDIT4L PE=1 SV=1

MVATGSLSSKNPASISELLDCGYHPESLLSDFDYWDYVPEPNLNEVIFEESTCQNLVKM

LENCLSKSKQTKLGCSKVLVPEKLTQRIAQDVLRLSSTEPGLRGCMHVNLEIENVCKK  
LDRIVCDSSVPTFELTLVFKQENCSTFRDFFFSGRFSGGFRRTLILSSGFRLVKKK  
LYSLIGTTVIEGS

>sp|Q9NVP1|DDX18\_HUMAN ATP-dependent RNA helicase DDX18 OS=Homo sapiens GN=DDX18 PE=1  
SV=2

MSHLPMKLLRKKIEKRNKLQRNLKFQGASNLTLSETQNGDVSEETMGSRKVKKSKQKP  
MNVGLSETQNGGMSQEAVGNIKVTKSPQKSTVLTNGEAMQSSNSESKKKKKKKRKMVND  
AEPDTKKAKTENKKGSEESAETTKETENNVEKPDNDEDESEVPSLPLGLTGAFEDTSFA  
SLCNLVNENTLKAIKEMGFTNMTIEQHKSI RPLLEGRDLLAAAKTGSGLTAFILPAVEL  
IVKLRFMPRNGTGVILSPTRELAMQTFGVLELMTHHVHTYGLIMGGSNRSAEAQKLGN  
GINIIVATPGRLLDHMQNTPGFMYKNLQCLVIDEADRILDVGFEELKQIIKLLPTRRQT  
MLFSATQTRKVEDLARISLKKELYVGVDDKANATVDGLEQGYVVCSEKRFLLLFTEL  
KKNRKKKLMVFFSSCMSVKYHYELLNYIDLPLVAIHGKQKQNKRTTTFQFCNADSGTLL  
CTDVAARGLDIPEVDWIVQYDPPDPKEYIHRVGRTARGLNGRGHALLILRPEELGFLRY  
LKQSKVPLSEFDFWSKISDIQSLEKLEIKNYFLHKSQAQYKSYIRAYDSHSLKQIFN  
VNNLNPQVALSFGFKVPPFVDLNVNSNEGKQKKRGGGGGFGYQKTKKVEKSKIFKHISK  
KSSDSRQFSH

>sp|Q9BUQ8|DDX23\_HUMAN Probable ATP-dependent RNA helicase DDX23 OS=Homo sapiens GN=DDX23  
PE=1 SV=3

MAGELADKKDRDASPSKEERKRSRTPDRERDRDRDRKSSPSKDRKRHSRDRRRGGSRSR  
SRSRKSAERERRHKERERDKERDNKKDRDRDKDGHRRDKDRKSSSLSPGRGKDFKSRK  
DRDSKKDEEDEHGDKKPKAQPLSLEELLAKKKAEEEEAEKPKFLSKAERAEALKRRQQE  
VEERQRMLEEERKKRKQFQDLGRKMLEDPQERERRERRERMERETNGNEDEEGRQKIREE  
KDKSKELHAIKERYLGGIKKRRRTRHLNDRKFVFEWDASEDTSIDYNPLYKERHQVQLLG  
RGFIAGIDLKQKQKREQSRFYGDLMEKRRTLEEKEQEEARLRLRKKKEAKQRWDDRHWSQK  
KLDENTDRDWIRIFREDYSITTKGGKIPNPIRSWKDSSLPPHILEVIDKCGYKEPTPIQRQ  
AIPIGLQNRDIIGVAETGSGKTA AFLIPLLVWITTLPKIDRIEESDQGPYAIILAPTREL  
AQQIEEETIKFGKPLGIRTVAVIGGISREDQGFRLRMGCEIVIATPGRLIDVLENRYLV  
SRCTYVVLDEADRMIDMGFEPDVQKILEHMPVSNQKPDTEAEDPEKMLANFESGKHXYR  
QTMFTATMPPAVERLARSYLRRPAVVYIGSAGKPERVEQKVFLMSESEKRRKLLAILE  
QGFDPPIIIFVNQKKGCDVLAKSLEKMGYNACTLHGKGQEQREFALS NLKAGAKDILVA  
TDVAGRGIDIQDVMVNYDMAKNIEDYIHRIGRTGRAGKSGVAITFLT KEDSAVFYELK  
QAILESPVSSCPPELANHPDAQHKPGTILTKKRREETIFA

>sp|Q9NY93|DDX56\_HUMAN Probable ATP-dependent RNA helicase DDX56 OS=Homo sapiens GN=DDX56  
PE=1 SV=1

MEDSEALGFEHMGDLPRLLQAVTDLGWSRPTLIQEKAIPLALEGKDLLARARTGSGKTAA  
YAIPMLQLLLHRKATGPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSA  
AEDSVSQRAVLMEKPDVVVGTPSRILSHLQQDSLKL RDSLELLVVDEADLLSFGFEEL  
KSLLCHLPRIYQAFMSATFNEDVQALKELILHNPVTLKLQESQLPGPDQLQQFQVVCET  
EEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSRCHI  
ISQFNQGFYDCVIATDAEVLGAPVKGRGRGPKGDKASDPEAGVARGIDFHHVSAVLNF  
DLPTPEAYIHRAGRTARANNPGIVLTFVLPTEQFHLGKIEELLSGENRGPILLPYQFRM  
EEIEGFRYRCRDAMRSVTKQAI REARLKEIKEELLHSEKLT YFEDNPRDLQLLRHDLPL  
HPAVVKPHLGHVPDYLVPALRGLVRPHKKRKKLSSSCRKAKRAKSQNPLRSFKHKGKKF

RPTAKPS

>sp|095786|DDX58\_HUMAN Probable ATP-dependent RNA helicase DDX58 OS=Homo sapiens GN=DDX58  
PE=1 SV=2

MTTEQRRSLQAFQDYIRKTLDPITYILSYMAPWFREEEVQYIQAENKNGPMEAATLFLKF  
LLELQEEGWFRGLDALDHAGYSGLYEAIESWDFKKIEKLEEYRLLKRLQPEFKTRIIP  
TDIISDLSECLINQECEEILQICSTKGMMAGAEKLVECLLRSDKENWPKTLKLALEKERN  
KFSELWIVEKGKIDVETEDLEDKMETSDIQIFYQEDPECQNLSSENSCPPSEVSDTNLYSP  
FKPRNYQLELALPAMKGKNTIICAPTGCCKTFVSLICEHHLKKFPQGQKGVVFFANQI  
PVYEQKQSVFSKYFERHGYRVTGISGATAENVPVEQIVENNDIIILTPQILVNNLKKGTI  
PSLSIFTLMIFDECHNTSKQHPYNMIMFNLDQKLGGSSGPLQVIGLTASVGVGDAKNT  
DEALDYICKLCASLDASVIATVKHNEELEQVVYKPQKFFRKVESRISDKFKYIIAQLMR  
DTESLAKRICKDLENLSQIQNREFGTQKYEQWIVTVQACMVFPMPDKDEESRICKALFL  
YTSHLRKYNDALIISEHARMKDALDYLDKDFFSNVRAAGFDEIEQDLTQRFEELQELESV  
SRDPSNENPKLEDLCFIIQEEYHLNPETITILFVKTRALVDALKNWIEGNPKLSFLKPGI  
LTGRGKTNQNTGMTLPAQKCILDFAKASGDHNLIIATSVADEGIDIAQCNLVILYEYVGN  
VIKMIQTRGRGRARGSKCFLLTSNAGVIEKEQINMYKEKMMNDSILRLQTWDEAVFREKI  
LHIQTHEKFIRDSQEKPKVPDPKENKKLLCRCKALACYTADVRVIEECHYTVLGDAFKE  
CFVSRPHPKPKQFSSFEKRAKIFCARQNCSDHWGIHVYKYTEIPVIKIESFVVEDIATG  
VQTLYSKWKDFHFEKIPFDPAEMSK

>sp|Q9NUI1|DECR2\_HUMAN Peroxisomal 2,4-dienoyl-CoA reductase OS=Homo sapiens GN=DECR2  
PE=1 SV=1

MAQPPPDVEGDDCLPAYRHLFCPDLLRDKVAFITGGGSGIGFRIAEIFMRHGCHTVIASR  
SLPRVLTAARKLAGATGRRCLPLSMDVRAPPAVMAAVDQALKEFGRIDILINCAAGNFC  
PAGALSFNAFKTVMDIDTSGTFNVSRLYEKFFRDHGGVIVNITATLGNRGQALQVHAGS  
AKAAVDAMTRHLAVEWGPQNIRVNSLAPGPISGTEGLRRLGGPQASLSTKVTASPLQRLG  
NKTEIAHSVLYLASPLASYVTGAVLVADGGAWLTFPNGVKGLPDFASFSAKL

>sp|Q16698|DECR\_HUMAN 2,4-dienoyl-CoA reductase, mitochondrial OS=Homo sapiens GN=DECR1  
PE=1 SV=1

MKLPARVFFTLGSRPLCGLAPRRFFSYGTKILYQNTALQSKFFSPLQKAMLPPNSFQGK  
VAFITGGGTGLGKMTTLLSSLGAQCVIASRKMDVLKATAEQISSQTGNKVHAIQCDVRD  
PDMVQNTVSELIVAGHPNIVINNAAGNFISPTERLSPNAWKTITDIVLNGTAFVTLTIG  
KQLIKAQKGAFLSITTIYAETGSGFVVPASAKAGVEAMSKSLAAEWGKYGMRFNVIQP  
GPIKTKGAFSRLDPTGTFEKEMIGRIPCGRGTVEELANLAAFLCSDYASWINGAVIKFD  
GGEEVLISGEFNDLRKVTKEQWDTIEELIRKTKGS

>sp|Q6ZN54|DEFI8\_HUMAN Differentially expressed in FDCP 8 homolog OS=Homo sapiens GN=DEF8  
PE=1 SV=2

MAILSLRAPGPWQAMQVWADRTLLTPHTGVTSQVLGVAAAVMTPLPGGHAAGRTREARWD  
AMEYDEKLARFRQAHLNPFNKQSGPRQHEQGPGEEVPDVTPEEALPELPPGEPEFRCPER  
VMDLGLSEDFSRPVGFLASDVQQLRQAIEECKQVILELPEQSEKQKDAVVRLIHLRLK  
LQELKDPNEDEPNIRVLLHRFYKEKSKSVKQTCDKCNTIIWGLIQWTYCTGCYYRCHS  
KCLNLISKPCVSSKVSQAAYELNICPETGLDSQDYRCAECRAPISLRGVPSEARQCDYT  
GQYYCSHCHWNDAVIPARVVHNWDFEPRKVSRCMRYLALMVSRPVLRLREINPLFSY  
VEELVEIRKLQDILLMKPYFITCREAMEARLLLQLQDRQHFVENDEMYSVQDLLDVHAG  
RLGCSLTEIHTLFAKHIKLDLCERCQAKGFVCELCREGDVLPFDSHTSVCADCSAVFHRD



CYYDNSTTCPKCARLSLRKQSLFQEPGPDVEA

>sp|O43583|DENR\_HUMAN Density-regulated protein OS=Homo sapiens GN=DENR PE=1 SV=2

MAADISESSGADCKGDPNRSKLDADYPLRVLYCGVCSLPTEYCEYMPDVAKCRQWLEKN  
FPNEFAKLTVENSPKQEAGISEGQGTAGEEEEEKKKQKRGGRGQIKQKKKTVPQKVTTIAKI  
PRAKKKYVTRVCGLATFEIDLKEAQRFFAQKFSCGASVTGEDEIIIQGDFTDDIIDVIQE  
KWPEVDDDSIEDLGEVKK

>sp|Q9Y315|DEOC\_HUMAN Deoxyribose-phosphate aldolase OS=Homo sapiens GN=DERA PE=1 SV=2

MSAHNRGTDLDSWISKIQVNHPAVLRRAEQIQARRTVKKEWQAAWLLKAVTFIDLTTLS  
GDDTSSNIQRLCYKAKYPIREDLLKALNMHDKGITTAAVCVYPARVCDAVKALKAAGCNI  
PVASVAAGFPAGQTHLKRLEEIRLAVEDGATEIDVVINRSLVLTGQWEALYDEIRQFRK  
ACGEAHLKTLATGELGTLTNVYKASMIAMMAGSDFIKTSTGKETVNATFPVAIVMLRAI  
RDFFWKTGNKIGFKPAGGIRSADSLAWLSLVKEELGDEWLKPELFRIGASTLLSDIERQ  
IYHHVTGRYAAYHDLPMs

>sp|Q9BUN8|DERL1\_HUMAN Derlin-1 OS=Homo sapiens GN=DERL1 PE=1 SV=1

MSDIGDWFRSIPAITRYWFAATVAVPLVGKLGILSPAYLFLWPEAFLYRFQIWRPITATF  
YFPVPGPTGFLYLVNLYFLYQYSTRLETGAFDGRPADYLFMLLFNWICIVITGLAMDMQL  
LMIPLIMSVLYVWAQLNRDMIVSFWFGRTRFKACYLPWWILGFNYIIGGSVINELIGNLVG  
HLYFFLMFRYPMDLGGRNFLSTPQFLYRWLPSRRGGVSGFGVPPASMRRAADQNGGGGRH  
NWGQGFRLGDQ

>sp|Q9BSY9|DESI2\_HUMAN Desumoylating isopeptidase 2 OS=Homo sapiens GN=DESI2 PE=1 SV=1

MGANQLVVLNVYDMYWMNEYTSSIGIGVFHSGIEVYGREFAYGGHPYPFSGIFEISPGNA  
SELGETFKFKEAVVLGSTDFLEDDIEKIVEELGKEYKGNAYHLMHKNCNHFSSALSEILC  
GKEIPRWINRLAYFSSCIPFLQSCLPKEWLTPAALQSSVSQELQDELEEAEDAAASASVA  
STAAGSRPGRHTKL

>sp|P60981|DEST\_HUMAN Destrin OS=Homo sapiens GN=DSTN PE=1 SV=3

MASGVQVADEVCRIFYDMKVRKCSSTPEEIKKRKKAVIFCLSADKKCIIVEEGKEILVGDV  
GVTITDPFKHFVGMLEPKDCRYALYDASFETKESRKEELMFFLWAPELAPLKSKMIYASS  
KDAIKKKFQGIKHECQANGPEDLNRACIAEKLGGSLIVAFEGCPV

>sp|Q86XP1|DGKH\_HUMAN Diacylglycerol kinase eta OS=Homo sapiens GN=DGKH PE=1 SV=1

MAGAGGQHHPGAAGGAAAGAGAAVTSAASAGPGEDSSDSEAEQEGPQKLIRKVSTSGQ  
IRTKTSIKEGQLLKQTSSFQRWKRYFKLRGRTLYYAKDSKSLIFDEVLDLSDASVAEAST  
KNANNSFTIITPFRRLMLCAENRKEMEDWISSLSKVQTPREPYEVAQFNVEHFGSMHNWYA  
CSHARPTFCNVCRESLSGVTSHGLSCEVCKFKAHKRCAVRATNNCKWTTLASIGKDIIED  
EDGVAMPHQWLEGNLPVSAKCAVCDKTCGSVLRLQDWKCLWCKTMVHTACKDLYHPICPL  
GQCKVSIIPPIALNSTSDSGFCRATFSFCVSPLLVFVNSKSGDNQGVKFLRRFKQLLNPA  
QVFDLMNGGPHLGLRLFQKFDNFRILVCGDGSVGWVLSEIDKLNLNKQCQLGVPLPLGTG  
NDLARVLGWGGSYDDDTQLPQILEKLERASTKMLDRWSIMTYELKLPPKASLLPGPPEAS  
EEFYMTIYEDSVATHLTKILNSDEHAVVISSAKTLCETVKDFVAKVEKTYDKTLENVVA  
DAVASKCSVLNEKLEQLLQALHTDSQAAPVLPGLSPLIVEEDAVESSEESLGESEKQLG  
DDVTKPSSQKAVKPREIMLRANSLKKAVRQVIEEAGKVMDDPTVHPCEPANQSSDYDSTE  
TDESKEEAKDDGAKESITVKTAPRSPDARASYGHSQTDSVPGPAVAASKENLPVLNTRII  
CPGLRAGLAASIAGSSIINKMLLANIDPFGATPFIDPDLSVDGYSEKVMNNYFGIGLD  
AKISLEFNKREEHPEKCRSRTKNLMWYGVLTRELLQRSYKNEQVRVQLECDGQYIPLP  
SLQGI AVLNIPSYAGGTNFWGGTKEDDIFAAPSFDDKILEVVAIFDSMQMAVSRVIKQLH

HRIAQCRTVKITIFGDEGVPVQVDGEAWVQPPGIKIVHKNRAQMLTRDRAFESTLKSWE  
DKQKCDSGKPVLRTHLYIHHAIDLATEEVSQMLCSQAAEELITRICDAATIHCLLEQEL  
AHAVNACSHALNKANPRCPESLTRDTATEIAINVKALYNETESLLVGRVPLQLESPHEER  
VSNALHSVEVELQKLTEIPWLYYLHPNEDEEPPMDCTKRNNRSTVFRIVPKFKKEKVQK  
QKTSSQPVPQKWGTEEVAAWDLLNLGEYKIDIFIRHDIRGAELLHLERRDLKDLGIPKVGH  
VKRILQGIKELGRSTPQSEV

>sp|Q9Y4D2|DGLA\_HUMAN Sn1-specific diacylglycerol lipase alpha OS=Homo sapiens GN=DAGLA  
PE=1 SV=3

MPGIVVFRRRWSVGSDDLVLPAILFLFLHTTWVILSVVLFGLVYNPHEACSLNLVDHGR  
GYLGILLSCMIAEMAIIWLSMRGGILYTEPRDSMQYVLYVRLAILVIEFIYAIVGIVWLT  
QYYTSCNDLTAKNVTGLMVVCNWVILSVCITVLCVFDPTGRTFVKLRATKRRQRNLRTY  
NLRHREEGQATSWSRRLKVLCCTRTKDSQSDAYSEIAYLFAEFFRDLDIVPSDIIAGL  
VLLRQRQRAKRNAVLDEANNDILAFLSGMPVTRNTKYLDLKNSEQMLRYKEVCYYMLFAL  
AAYGWPMYLMRKPACGLCQLARSCSCCLCPARPRFAPGVTIEEDNCCGCNAIAIRRHFLD  
ENMTAVDIVYTSCHDAVYETPFYVAVDHDKKKVVISIRGTLSPKDALTDLTGDAERLPVE  
GHHGTWLGHKGMVLSAEYIKKKLEQEMVLSQAFGRDLGRGTKHYGLIVVGHSLGAGTAAI  
LSFLLRPQYPTLCKFAYSPPGGLLSEDA MEYSKEFVTAVVLGKDLVPRIGLSQLEGFRRQ  
LLDVLQRSTKPKWRIIVGATKCIPKSELPEEVEVTTLASTRLWTHPSDLTIALSASTPLY  
PPGRIIHVVHNHPAEQCCCCEQEEPTYFAIWGDNKAFNEV IISPAMLHEHLPYVVM EGLN  
KVL ENYNGKGTALLSAAKVMVSPTEVDLTPELIFQQQPLTPGPPMPTGLALELPTADHRN  
SSVRSKSQSEMSLEGFSEGRLLSPVAAAAARQDPVELLLLSTQERLAAELQARRAPLATM  
ESLSDTESLYSFD SRRSSGFRSIRGSPSLHAVLERDEGHLFYIDPAIPEENPSLSSRTEL  
LAADSLSKHSQDTQPLEAALSGSGVTPERPPSAAANDEEEVGGGGGPPASRGELALHNG  
RLGDSPPSPQVLEFAEFIDSLFNLDKSSSFQDLYCMVVPESPTSDYAE GPKSPSQEILL  
RAQFEPNLVPKPPRLFAGSADPSSGISLSPSFPLSSSGELMDLTPTGLSSQECLAADKIR  
TSTPTGHGASPAKQDELVISAR

>sp|Q9P1J3|DHAS1\_HUMAN Putative uncharacterized protein DHRS4-AS1 OS=Homo sapiens  
GN=DHRS4-AS1 PE=5 SV=1

MSEQNICNQKDKSTLPFCQAHLC EETTNRLCVSNKAVYSLECKWAESEN RVSEGRWGRGC  
FIGVG

>sp|Q53GQ0|DHB12\_HUMAN Very-long-chain 3-oxoacyl-CoA reductase OS=Homo sapiens  
GN=HSD17B12 PE=1 SV=2

MESALPAAGFLYWVGAGTVAYLALRISYSLFTALRVWVGNEAGVGPGLG EWAVVTGSTD  
GIGKSYAEELAKHGMKVVLISRSKDKLDQVSSEIKEKFKVETRTIAVDFASED IYDKIKT  
GLAGLEIGILVNNVGMSYEYPEYFLDVPDLDNVIKKMININILSVCKMTQLVLP GMVERS  
KGAILNISSGSGMLPVPLLT IYSATKTFVDFFSQCLHEEYRSKGVFVQSVLPYFVATKLA  
KIRKPTLDKPSPETFVKSAIKTVGLQSR TNGYLIHALMGSIISNLPSWIY LKIVMNMNKS  
TRAHYLKKT KKN

>sp|P37058|DHB3\_HUMAN Testosterone 17-beta-dehydrogenase 3 OS=Homo sapiens GN=HSD17B3  
PE=1 SV=2

MGDVLEQFFILTGLLVCLACLAKCVRFSRCVLLNYWKVLPKSFLRSMGQWAVITGAGDGI  
GKAYSFELAKRGLNVVLISRTLEKLEAIATEIERTTGRSVKIIQADFTKDDIYEHIKEKL  
AGLEIGILVNNVGMLPNLLPSHFLNAPDEIQSLIHCNITSVVKMTQLILKHMESRQKGLI  
LNISSGIALFPWPLYSMYSASKAFVCAFSKALQE EYKAKEV IIQVLT PYAVSTAMTKYLN

TNVITKTADEFVKESLNYVTIGGETCGCLAHEILAGFLSLIPAWAFYSGAFQRLLLTHTYV  
AYLKLNTKVR

>sp|Q9UBM7|DHCR7\_HUMAN 7-dehydrocholesterol reductase OS=Homo sapiens GN=DHCR7 PE=1 SV=1

MAAKSQPNIPKAKSLDGVTNDRITASQGWGRAWEVDWFSLASVIFLLFAPFIVYYFIMA  
CDQYSCALTGPVVDIVTGHARLSDIWAKTPPITRKAQLYTLWVTFQVLLYTSLPDFCHK  
FLPGYVGGIQEGAVTPAGVVNKYQINGLQAWLLTHLLWFANAHLLSWFSPTIIFDNWIPL  
LWCANILGYAVSTFAMVKGYFFPTSARDCKFTGNFFYNMMGIEFNPRIGKWFDFKLFFN  
GRPGIVAWTLINLSFAAQRELHSHVTNAMVLNVNLQAIYVIDFFWNETWYLKTIDICH  
HFGWYLGWDCVWLPYLYTLQGLYLVPYQLSTPHAVGVLLGLVGYYIFRVANHQQDL  
FRRTDGRCLIWGRKPKVIECSYTSADGQRHHSKLLVSGFWGVARHFNYVGDLMGSLAYCL  
ACGGGHLLPYFYIIYMAILLTHRCLRDEHRCASKYGRDWERYTAAVPRLLPGIF

>sp|Q9UQ10|DHDH\_HUMAN Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase OS=Homo sapiens  
GN=DHDH PE=1 SV=1

MALRWGIVSVGLISSDFTAVLQTLPRSEHQVVAARDLSRAKEFAQKHDIPKAYGSYEE  
LAKDPSVEVAYIGTQHPQHKAAMVLCCLAAAGKAVLCEKPTGVNAAEVREMVAEARSRALFL  
MEAIWTRFFPASEALRSVLAQGTGLDLRVARAEFGKNLIHVPRAVDRAQAGGALLDIGIY  
CVQFTSMVFGGQKPEKISVVGRRHETGVDDTVTVLLQYPGEVHGSFTCSITVQLSNTASV  
SGTKGMVQLLNPCWCPTELVVKGEHKEFPLPPVPKDCNFDNGAGMSYEAKHVWECLRKGM  
KESPVIPLSESELLADILEEVRKAIGVTFPQDKR

>sp|Q7Z5J1|DHI1L\_HUMAN Hydroxysteroid 11-beta-dehydrogenase 1-like protein OS=Homo  
sapiens GN=HSD11B1L PE=2 SV=1

MKVLLLTGLGALFFAYYWDNFDPASLQGARVLLTGANAGVGEELAYHYARLGSHLVLT  
HTEALLQKVVGNCRKLGAQKVFYIAADMASPEAPESVQFALDKLGGDLVVLNHIGGAP  
AGTRARSPQATRWMQVNFVSYVQLTSRALPSLTDSKGSLLVVSSLLGRVPTSFSSTPYSA  
AKFALDGGFFGSLRRELDVQDVNVAITMCVLGLRDRASAAEAVRSSTSRRPQPEHRGVPLQ  
SQTAMFLPPTVPGARTLTETPLRGWPQPKMKSSRQKSKTEKNDGHLEPVTAWEVQVPRVR  
RLCRGLARPHLFGHD

>sp|O95822|DCMC\_HUMAN Malonyl-CoA decarboxylase, mitochondrial OS=Homo sapiens GN=MLYCD  
PE=1 SV=3

MRGFGPGLTARRLLPLRLPPRPPGPRLASGQAAGALERAMDELLRRVPPTPAYELREKT  
PAPAEQGACADVFSFYGGLAETAQRAELGRLARGFGVDHGQVAEQSAGVLHLRQQQREAA  
VLLQAEDRLRYALVPRYRGLFHHISKLDGGVRFLVQLRADLLEAQAQLKLVGPDVREMNG  
VLKGMLESEWFSSGFLNLERVTWHSPCEVLQKISEAEAVHPVKNWMDMKRRVGPYRRCYFF  
SHCSTPGEPLVVLHVALTGDISSNIQAIVKEHPPSETEENKITAIFYSISLTQQGLQG  
VELGTFLIKRVVKELQREFPHLGVFSSLSPIPGFTKWLLGLLNSQKEHGRNELFTDSEC  
KEISEITGGPINETLKLLSSSEWVQSEKLVRALQTPLMRLCAWYLYGEKHRGYALNPVA  
NFHLQNGAVLWRINWMADVSLRGITGSCGLMANYRYFLEETGPNSTSYLGSKI IKASEQV  
LSLVAQFQKNSKL

>sp|Q96GG9|DCNL1\_HUMAN DCN1-like protein 1 OS=Homo sapiens GN=DCUN1D1 PE=1 SV=1

MNKLKSSQKDKVRQFMIFTQSSEKTAVSCLSQNDWKLDVATDNFFQNPELYIRESVKGS  
DRKKLEQLYNRYKDPQDENKIGIDGIQQFCDDLALDPASISVLI IAWKFRAATQCEFSKQ  
EFMDGMTELGCDSEIKLKAQIPKMEQELKEPGRFKDFYQFTFNFAKNPGQKGLDLEMAIA  
YWNVLNNGRFKFLDLWNKFLLEHHKRSIPKDTWNLLDFSTMIADDMSNYDEEGAWPVLI  
DDFVEFARPQIAGTKSTTV

>sp|Q96C86|DCPS\_HUMAN m7GpppX diphosphatase OS=Homo sapiens GN=DCPS PE=1 SV=2  
MADAAPQLGKRKRELDVEEHAHAASSTEEKEAGVNGTCAVRLPFSGFRLQKVLRESARDK  
IIFLHGKVNESGDGDGDAVILEKTPFQVEQVAQLLTGSPQLQFSNDIYSTYHLFP  
PRQLNDVKTTVVYPATEKHLQKYLRQDLRLIRETGDDYRNITLPHLESQSLSIQWVYNIL  
DKKAEADRIVFENPDPSDGFVLIPDLKWNQQQLDDLILAIACHRRGIRSLRDLTPEHLPL  
LRNIIHQGQEAILQRYRMKGDHLRVYLHYLPSYYHLHVHFTALGFEAPGSGVERAHLAE  
VLENLECDPRHYQQRTLTALRADDPLLKLLQEAQQS

>sp|Q9H816|DCR1B\_HUMAN 5' exonuclease Apollo OS=Homo sapiens GN=DCLRE1B PE=1 SV=1  
MNGVLIPHTPIAVDFWSLRAGTARLFFLSHMSDHTVGLSSTWARPLYCSPITAHLLHR  
HLQVSKQWIALEVGESHVLPDEIGQETMTVTLLDANHCPSVMFLFEGYFGTILYTG  
FRYTPSMLKEPALTLGKQIHTLYLDNTNCPALVLPQRQEAHQIVQLIRKHPQHNIKIG  
LYSLGKESLLEQLALEFQTWVVLSPRRLELVQLGLADVFTVEEKAGRIHAVDHMEICH  
NMLRWNTHTPTIAILPTSRKIHSSHPDIHVIPYSDHSSYSELRAFVAALKPCQVVPVSR  
RPCGGFQDLSPLISVPLIPDSVQQYMSSSSSRKPSLLWLLERRLKRPTQGVVFESPEES  
ADQSQADRDSKKAKKEKLPSPADLEKQPSHHPLRIKKQLFPDLYSKEWNAKVPFCESQK  
RVTMLTAPLGFVHLRSTDEEFISQKTREEIGLGSPLVPMGDDGGPEATGNQSAWMGHG  
SPLSHSSKGTPLLATEFRGLALKYLLTPVNFQAGYSSRRFDQQVEKYHKPC

>sp|P32321|DCTD\_HUMAN Deoxycytidylate deaminase OS=Homo sapiens GN=DCTD PE=1 SV=2  
MSEVSCKKRDDYLEWPEYFMAVAFLSAQRSKDPNSQVGACIVNSENKIVGIGYNGMPNGC  
SDDVLPWRRTAENKLDTKYPYVCHAEINAMNKNSTDVKGCSMYVALFPCNECAKLIQA  
GIKEVIFMSDKYHDSDEATAARLLFNMAAGVTFRKFIPKCSKIVIDFDSINSRPSQKLQ

>sp|Q14203|DCTN1\_HUMAN Dynactin subunit 1 OS=Homo sapiens GN=DCTN1 PE=1 SV=3  
MAQSKRHVYSRTPSGSRMSAEASARPLRVGSRVEVIGKGHRGTVAIVGATLFATGKWVG  
ILDEAKGKNDGTVQGRKYFTCEGHGIFVRQSQIQVFEDGADTTSPETPDSSASKVLKRE  
GTDTTAKTSKLRGLPKKAPTARKTTTRPKPTRPASTGVAGASSSLGPSGSASAGELSS  
SEPSTPAQTPLAAPIIPTPVLTSPGAVPPLSPSPKEEEGLRAQVRDLEEKLETLRLKRAE  
DKAKLKELEKHKIQLEQVQEWKSKMQEQADLQRRLEARKEAKEALEAKERYMEEMADT  
ADAEMATLDKEMAEERAESLQVEALKERVDELTTDLEILKAEIEEKGSAGAASSYQL  
KQLEEQNARLKDALVRMRDLSSEKQEHVKLQKLMKKNQLEVVRRQQRERLQEELSQA  
STIDELKEQVDAALGAEMVEMLTDRNLNLEEKVRELRETVGDLEAMNEMNDELQENARE  
TELELREQLDMAGARVREAQKRVEAAQETVADYQQTIKKYRQLTAHLQDVNRELTNQEA  
SVERQQQPPPETDFDKIKFAETKAHAKAIEMLRQMEVAQANRHMSLLTAFMPDSFLRPG  
GDHDCVLVLLMPRLICKAELIRKQAQEFELSENCSERPGLRGAAGEQLSFAAGLVYSL  
SLLQATLHRYEHALSQCSVDVYKKGSLYPEMSAHERSLDFLIELLHKDQLDETVEPL  
TKAIKYYQHLYSIHLAEQPEDCTMLADHIKFTQSALDCMSVEVGRLRAFLQGGQEATDI  
ALLLRDLETSCSDIRQFCKKIRRRMPGTDAPGIPAALAFGPQVSDTLDCRKHLTWVVAV  
LQEVAAAAAQLIAPLAENEGLLVALEELAFKASEQIYGTSSSPYECLRQSCNIISTM  
NKLATAMQEGEYDAERPPSKPPVELRAAALRAEITDAEGLGLKLEDRETVIKELKSLK  
IKGEELSEANVRLSLEKKLDSAAKDADERIEKVQTRLEETQALLRKKEKEFEETMDALQ  
ADIDQLEAEKAKELKQLNSQSKRTIEGLRGPPPSGIATLVSGIAGEEQQRGAIPGQAPGS  
VPGPGLVKDSPLLLQQISAMRLHISQLQHENSILKGAQMKASLASLPPLHVAKLSHEGPG  
SELPAGALYRKTSQLETLNQLSTHTHVVDITRTSPAASPSAQLMEQVAQLKSLSDTVE  
KLKDEVLKETVSQRPGATVPTDFATFPSSAFLRAKEEQDDTVYMGKVTFSCAAGFGQRH  
RLVLTQEQLHQLHSRLIS

>sp|Q7Z4W1|DCXR\_HUMAN L-xylulose reductase OS=Homo sapiens GN=DCXR PE=1 SV=2

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLSLVRECPGIEPVCVD  
LGDWEATERALGSVGPVDLLVNNAAVALLQPFLVETKEAFDRSFEVNLRAVIQVSQIVAR  
GLIARGVPGAIVNVSSQCSQRAVTNHSVYCSTKGALDMLTKVMALELGPHKIRVNAVNP  
VVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSDRSGMTTGSTLPVEGG  
FWAC

>sp|P20711|DDC\_HUMAN Aromatic-L-amino-acid decarboxylase OS=Homo sapiens GN=DDC PE=1 SV=2

MNASEFRRRGKEMVDYMANYMEGIEGRQVYPDVEPGYLRPLIPAAAPQEPDTFEDIINDV  
EKIIMPVTHWHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACELETVMMD  
WLGMLELPAFLNEKAGEGGGVIQGSASEATLVALLAARTKVIHRLQAASPELTQAAIM  
EKLVAYSSDQAHSSVERAGLIGGVKLKAIPSDGNFAMRASALQEALERDKAAGLIPFFMV  
ATLGTTCESFDNLLEVGPICNKEDIWLHVDAAYAGSAFICPEFRHLLNGVEFADSFNFN  
PHKWLLVNFDCSAMWVKRRTDLTGAFRLDPTYLKHSHQDGLITDYRHWQIPLGRRFRSL  
KMWVFRMYGVKGLQAYIRKHVQLSHEFESLVRQDPRFEICVEVILGLVCFRLKGSNKVN  
EALLQRINSAKKIHLVPCHLRDKFVLRFIACSRTVESAHVQRAWEHIKELAADVLAERE

>sp|Q8NEL9|DDHD1\_HUMAN Phospholipase DDHD1 OS=Homo sapiens GN=DDHD1 PE=1 SV=2

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GEPGLHLAPGTDDHNNHLALDCLSDENYDFSSAESSRLRYSEGESGGGGSSLSLHPP  
QQPPLVPTNSGGGGATGGSPGERKRTLGGPAARHRYEVVTELGPEEVRFYKEDKKTWK  
PFIGYDSLRIELAFRTLLQTTGARPPQGGDRDGDHVCSTGPASSSGEDDEDACGFCQS  
TTGHEPEMVELVNIEPVCVRGGLYEVDVTQGECPVYWNQADKIPVMRGQWFIDGTWQPL  
EEEEENLIEQEHLNCFRGQQMQENFDIEVSKSIDGKDAVHSFKLSRNHVDWHSVDEVYLY  
SDATTSKIARTVTQKLGFSKASSGTRLHRGYVEEATLEDKPSQTTHIVFVVHGIGQKMD  
QGRIIKNTAMMREAARKIEERHFSNHATHVEFLPVEWRSKLTLDGDTVDSITPDKVRGLR  
DMLNSSAMDIMYYSPLYRDELVKGLQQELNRLYSLFCSRNPDEEKGGKVSIVSHSLGC  
VITYDIMTGWNPVRLYEQLLQKEEELPDERWMSYEERHLLDELYITKRRLKEIEERLHGL  
KASSMTQTPALKFKVENFFCMGSPLAVFLALRGIRPGNTGSQDHILPREICNRLNIFHP  
TDPVAYRLEPLILKHYSNISPVQIHWYNTSNPLPYEHMKPSFLNPAKEPTSVSENEGIST  
IPSPVTSPVLSRRHYGESITNIGKASILGAASIGKGLGGMFSRFRSSTTQSSETSKDS  
MEDEKKPVASPSATTVTGTQLPHSSSGFLDSAYFRLQESFFNLPQLLPENVMQNKDNAL  
VELDHRIDFELREGLVESRYWSAVTSHTAYWSSLDVALFLLTFMYKHEHDDDAKPNLDPI

>sp|Q8IXT1|DDIAS\_HUMAN DNA damage-induced apoptosis suppressor protein OS=Homo sapiens  
GN=DDIAS PE=2 SV=2

MNRRRKFLLASVLALQNSSFYIPSCQKCFSRILVSKRSNCPKCGSTGESGNANYRYKLS  
LKVAESNKLFIITVFGSCLDTFFGLTATGLHRYIQDPNKIPETLDNDTTQNLTKAVETC  
FVGQSFIFGVTNFENQPGQSDASNFLQQCSDHKRKAKALVACQIVLPDPIAGFTVIDY  
FHQLLQTFNFRKLQCDSQAPNNHLLALDHSNSDLSSIYTSdstSDFFKSCSKDTFSKFWQ  
PSLEFTCIVSQLTDNDDFSASEQSKAFGTLQQRKRSISIAEATGSSSCHDPIQDSWSLVS  
YMDKKSTAELGKELGLQAKELSAVHSSHHEIGVNSNLFSLMREPLESSNTKSFHSAV  
EIKNRSQHELPCFQHHGIDTPTSLQKRSACPPSLRLEETASSSQDGPQIWDLPFSE  
SLNKFLAVLESEIAVTQADVSSRKHHVDNDIDKFHADHSRLSVTPQRTTGALHTPPIALR  
SSQVIVKANCSKDDFLFNCKGNLSPSVEKESQPDNKVEAVSVNHNGRDMSEYFLPNPYLS  
ALSSSSKDLETIVTLKKTIRISPHRESHSSLNKNYLNCGGEISVSEMNEKLTTLCYRKY  
NDVSDLCLENKQYCRWSKNQDDSFITCRKLTYPLETLCNSPNRSTNTLKEMPWGHINN

VTQSYSIGYEGSYDASADLFDDIAKEMDIATEITKKSQDILLKWGTSLAESHPSSEDFSL  
RSLSEDFIQPSQKLSLQSLSDSRHSRTCSPTPHFQSDSEYNFENSQDFVPCSQSTPISGF  
HQTRIHGINRAFKKPVFYSDLDGNYEKIRIFPENDKQQASPSCPKNIKTPSQKIRSPIVS  
GVSQPDVFNHYPFACHETDSEWVPPTTQKIFPSDMLGFQIGLGLKCLAAHYFPDQQEL  
PRKKLKHIRQGTNKGLIKKKLKNMLAAVVTKKKTHKYNCKSSGWISKCPDIQVLAAPQLH  
PILGPDSCSEVKCCLPFSEKGPSPVCETRSAWSPELFS

>sp|A6NHG4|DDTL\_HUMAN D-dopachrome decarboxylase-like protein OS=Homo sapiens GN=DDTL  
PE=2 SV=1

MPFLELDTNLPANRVPAGLEKRLCAAAASILGKPADRVNVTVRPGLAMALSGSTEPCAQL  
SISSIGVVGTAEDNRSHSAHFFFLTKELALGQDRFPTVLSTSPAHHGGPRCPGEIIEGK  
KSCLNEEALFIYFI

>sp|Q96FC9|DDX11\_HUMAN ATP-dependent DNA helicase DDX11 OS=Homo sapiens GN=DDX11 PE=1  
SV=1

MANETQKVGAIHFPFPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALS  
WLRDFEQKKREEEARLLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQK  
KEERDLVDRLKAEQARRKQREERLQQLQHRVQLKYAAKRLRQEEEEERENLLRLSREMLET  
GPEAERLEQLESCEEELVLAYESDEEKKVASRVEDEDDLEEEHITKIYYCSRTHSCLA  
QFVHEVKKSPFGKDVRLVSLGSRQNLVNEDEVKSLGSVQLINDRCVDMQRSRHEKKKGAE  
EEKPKRRRQEQQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYYSRLAIP  
AAQLVVLPHYMLLHAATRAAGIRLQDQVVIIDEAHNLIDTITGMHSVEVSGSQLCQAHS  
QLLQYVERYGKRLKAKNLMYKQILYLLEKFVAVLGGNIKQNPNTQSLSQGTGTELKTIND  
FLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQPKLAGFQQFLQSLQPR  
TTEALAAPADESQASTLRPASPLMHIQGFLAALTANQDGRVILSRQGSLSQSTLKFLLL  
NPAVHFAQVVKECRAVVIAGGTMQPVSDFRQQLACAGVEAERVVEFSCGHVIPPDNILP  
LVICSGISNQPLEFTFQKRELQMMDEVGRILCNLCGVVPGGVVCFPSYEYLRQVHAHW  
EKGGLLGRLAARKKIFQEPKSAHQVEQVLLAYSRCIQACGQERGQVTGALLLSVVGKMS  
EGINFSDNLGRCVVMVGMPFPNIRSAELQEKMAYLDQTLSPRPGTPREGSGGEPVHEGRQ  
PVHRQGHQAPEGFCQRSAPGPAICPAPCPGQAAGLDPSPCGGQSYLWPRHCCCAEVSPGE  
VGLFLMGNHHTAWRRALPLSCPLETVFVVGVCDDPVTVKVPRRRVWSPECCQDPGTGVS  
SRRRKWGNPE

>sp|Q9H8H2|DDX31\_HUMAN Probable ATP-dependent RNA helicase DDX31 OS=Homo sapiens GN=DDX31  
PE=1 SV=2

MAPDLASQRHSESPSVNSRPNVILPGREGREGLPPGGGTRGSLVPTRPVPPSPAPLGT  
SPYSWSRSGPGRGGGAGSSRVPRGVPGPVAVCAPGSLLHHASPTQTMAAADGSLFDNPRTF  
SRRPPAQASRQAKATKRKYQASSEAPPARRNETSFLPAKKTsvKETQRTFKGNAQKMFS  
PKKHSVSTSDRNQEERQCIKTSSLFKNNPDIPELHRPVVKVQVEKVFTSAAFHELGLHPH  
LISTINTVLKMSMTSVQKQSIPLLEGRDALVRSQTGSGKTLAYCIPVVQSLQAMESKI  
QRSDGPYALVLPVPTRELALQSFDTVQKLLKPFTWIVPGVLMGGEKRSKARLRKGINIL  
ISTPGRLVDHIKSTKNIHFSRLRWLVFDEADRILDLGFEKDITVILNAVNAECQKRQNVL  
LSATLTEGVTRLADISLHDPVSVSVLDKSHDQLNPKDKAVQEVCPPPAGDKLDSFAIPES  
LKQHVTVPVPSKRLRLVCLAAFIQKCKFEEDQKMVVFSSCELVEFHYSFLQTLLSSSGA  
PASGQLPSASMRLKFLRLHGGMEQEERTAVFQEFSSHRRGVLLCTDVAARGLDLPQVTWI  
VQYNAPSSPAEYIHRIGRTARIGCHGSSLLILAPSEAEYVNSLASHKINVSEIKMEDILC  
VLTRDDCFKGRWGAQKSHAVGPQEIRERATVLQTVFEDYVHSSERRVSWAKKALQSFQ

AYATYPRELKHIFHVRSLHLGHVAKSFGLRDAPRNLSALTRKKRKAHVKRPD LHKKTSK  
HSLAEILRSEYSSGMEADI AKVKKQNAPGEPGGRPLQHSLQPTPCFGRGKTLKWRKTQKG  
VQRDSKTSQKV

>sp|Q8NHQ9|DDX55\_HUMAN ATP-dependent RNA helicase DDX55 OS=Homo sapiens GN=DDX55 PE=1  
SV=3

MEHVTEGSWESLPVPLHPQVLGALRELGFYMPVQSATIPLFMRNKDVAAEAVTGSGKT  
LAFVIPILEILLRREELKKSQVGAIITPTRELAIQIDEVLSHFTKHFPEFSQILWIGG  
RNPGEDVERFKQGGNIIVATPGRLEDMFRRKAEGDLASCVRSLDVLVLEADRLLDMG  
FEASINTILEFLPKQRRTGLFSATQTQEVENLVRAGLRNPVRVSVKEKGVAASSAQKTPS  
RLENYMVCKADEKFNQLVHFLRNHKQEKHLVFFSTCACVEYYGKALEVLVKGVKIMCIH  
GKMKYKRNIKFMEFRKLQSGILVCTDVMARGIDIPEVNWVLQYDPPSNASAFVHRCGRTA  
RIGHGGSALVFLPMEESYINFLAINQKCPLQEMKQNRNTADLLPKLKSMAADRAVFEK  
GMKAFVSYVQAYAKHECNLIFRLKDLDFASLARGFALLRMPKMPELRGKQFPDFVPVDVN  
TDTIPFKDKIREKQRQKLEQQRREKTENEGRRKFIKNKAWSKQKAKKEKKKKMNEKRKR  
EEGSDIEDEDMEELLNDTRLLKKLKKGKITEEEFEKGLLTGKRTIKTVDLGISDLEDDC

>sp|Q9HBH1|DEFM\_HUMAN Peptide deformylase, mitochondrial OS=Homo sapiens GN=PDF PE=1 SV=1  
MARLWGALSLWPLWAAVPWGGAAGVVRACSSSTAAPDGVEGPALRRSYWRHLRRLVLGPP  
EPPFSHVCQVGDPVLRGVAAPVERAQLGGPELQRLTQRLVQVMRRRCVGLSAPQLGVPR  
QVLALELPEALCRECPQRALRQMEPFPLRVFVNPSLRVLD SRLVTFPEGCESVAGFLA  
CVPRFQAVQISGLDPNGEQVWQASGWAARI IQHEMDHLQGCLFIDKMSRTFTNVYWMK  
VND

>sp|Q6QHC5|DEGS2\_HUMAN Sphingolipid delta(4)-desaturase/C4-monooxygenase DES2 OS=Homo  
sapiens GN=DEGS2 PE=1 SV=2

MGNSASRSDFEWYTDQPHTRRKEILAKYPAIKALMRDPRLKWAVLVVLVQMLACWL  
VRGLAWRWLLFWAYAFGGCVNHS LTLAIHDI SHNAAF GTGRAARNRWLAVFANLPVGV  
PYAASFKKYHVDHHRYLGGDGLD VDPTRLEGWFFCTPARKLLWLVLQPFYSLRPLCVHPK  
AVTRMEVLNTLVQLAADLAIFALWGLKPVVYLLASSFLGLGLHPISGHFVAEHYMF LKGH  
ETYSYYGPLNWITFNVGYHVEHDFPSIPGYNLPLVRKIAPEYYDHL PQHHSWVKVLWDF  
VFEDSLGPYARVKRVR LAKDGL

>sp|P35659|DEK\_HUMAN Protein DEK OS=Homo sapiens GN=DEK PE=1 SV=1

MSASAPAAEGEGTPTQPASEKEPEMPGPREESEEEEEDEDEEEEEEEKEKSLIVEGKREK  
KKVERLTMQVSSLQREPFTIAQKGQKLC EIERIHFFLSKKKTDELNLHKLLYNRP GTV  
SSLKKNVGQFSGFPFEKGSVQYKKKEEMLKKFRNAMLKSICEVLDLERSGVNSELVKRIL  
NFLMHPKPSGKPLPKSKKTC SKGSKERNSSG MARKAKRTKCEILSDESSSDEDEKKNK  
EESDDEDEKES EEPKKTAKREPKQKATSKSKSVKSANVKKADSSTTKKNQNSSKKE  
SESEDSSDDEPLIKLKKPPTDEELKETIKLLASANLEEVTMKQICKKVYENYPTYDLT  
ERKDFIKTTVKELIS

>sp|075064|DEN4B\_HUMAN DENN domain-containing protein 4B OS=Homo sapiens GN=DENND4B PE=1  
SV=4

MAEERPPRLVDYFV VAGLAGNGAPIPEETWVPEPSGPLRPPRPAEPITDVAVIARALGEE  
VPQGYTCIQASAGGHPL ELSAGLLGGTQPVICYRRGRDKPPLVELGVLYEGKERPKPGFQ  
VLDTTPYSHSANLAPPGPHRPTLYT YRRAEGAGLHALGITDLCLVLP SKGEGTPHTYC  
RLPRNLNPGMWGPAVYLCYKVLAKANTLVYEAELGRYPEEDNEAFPLPESVPVFCLPM  
GATIECWPAQTKYPVPVFSTFVLTGAAGDKVYGAALQFYEA FPRARLSERQARALGLLSA

VERGRALGGRAVRSRRAIAVLSRWPAPFAFRAFLTFLYRYSVSGPHRLPLEAHISHFIHN  
VPFPSPQRPRILVQMSPYDNLLCQPVSPLPLSGASFLQLLQSLGPELAITLLLAVLTE  
HKLLVHSLRPDLLTSVCEALVSMIFPLHWQCPYIPLCPLVLADVLSAPVPFIVGIHSSYF  
DLHDPADVICVDLDTNTLFQTEEEKLLSPRTLPRRPYKVLLATLTNLYQQLDQTYTGPE  
EEASLEFLLTDYEAVCGRRARLEREVQGAFLRFMACLLKGYRVFLRPLTQAPSEGARDVD  
NLFFLQGFLLKSRERSSHKLYSQLLHTQMFSQFIEECFSGSARHAALFFDSCVEKVHPEQ  
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PGALPVPGPSRSAPSSAPRRTKQEMKVAQRMAQKSAAPPELWARCLLGHCYGLWFLCLP  
AYVRSAPSRVQALHTAYHVLQRMESGKVLPDEVCYRVLMLCSHYGQPVLSVRVMLEMR  
QAGIVPNTITYGYNKAVLESKWPSGTPGGRLRWAKLRNVVLGAAQFRQPLRERQQQQQQ  
QQQQQQQQQQEQVSAHQEAGSSQAEPYLERPSPTRPLQRQTTWAGSLRDPASPPGRLVK  
SGSLGSARGAQPTVEAGVAHMIEALGVLEPRGSPVPWHDGSLSDLSTGEEPLPGGSPGG  
SGSALSAQSTEALEGLSGRGPKAGGRQDEAGTPRRGLGARLQQLTPSRHSPASRIPPPE  
LPPDLPPPARRSPMDSLLHPRERPGSTASESSASLGSEWDLSESSLNLSLRRSSERLSD  
TPGSFQSPSLEILLSSCSLACRACDSLVDDEEIMAGWAPDDSNLNTTCPCACPFVPLLSV  
QTLDSRPSVSPKSAGASGSKDAPVPGGPGPVLSDRRLCLALDEPQLCNGHMGASRRVE  
SGAWAYLSPLVLRKELESLVENEGSEVLALPELPSAHP IIFWNLLWYFQRLRLPSILPGL  
VLASCDGSPSHSQAPSPWLTDPDASVQVRLLWDVLTDPDNCPPLYVLWRVHSQIPQRVW  
PGPVPASLSLALLESVLRHVGLNEVHKAVGLLLETGLGPPPTGLHLQRGIYREILFLTMAA  
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>sp|Q8IWF6|DEN6A\_HUMAN Protein DENND6A OS=Homo sapiens GN=DENND6A PE=1 SV=1

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SSGRRVSLHCLLDQFDKDLPVYLKDPAYFYGYVYFRQVRDKTLKRGYFQKSLVLISKLP  
YIHFFHTVLKQIAPEYFEKNEPYLEAACNDVDRWPAPVPGKTLHLPIMGVVMKVRIPTCH  
DKPGTTQIVQLTQQVDNTNISVILPTVHEVDIFRCFCPVFLHSQMLWELVLLGEPLVMAP  
SPSESSETVLALVNCISPLKYFSDFRPYFTIHDSEFKEYTTRTQAPPSVILGVTNPFFAK  
TLQHWPHIIRIGDLKPTGEIPKQVKVKKLNLKTLDSKPGVYTSYKPYLNRDEEIIKQLQ  
KGVQQKRPSEASVILRRYFLELTQSFIIPLERYVASLMPLQKSISPWKSPQLRQFLPE  
EFMKTLEKTGPQLTSRIKGDWIGLYRHFLKSPNFDGWFKTRRKEMTQKLEALHLEALCEE  
DLLLWIQKHTEVETVDLVLKLKNKLLQADREHLPVKPDTMEKLRTHIDAIILALPEDLQG  
ILLKTGMT

>sp|P17661|DESM\_HUMAN Desmin OS=Homo sapiens GN=DES PE=1 SV=3

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GGAGGLGSLRASRLGTRTPSSYGAGELLDFFSLADAVNQEFLLTTRTNEKVELQELNDRFA  
NYIEKVRFLEQQNAALAAEVNRLKGREPTRVAELYEEELRELRRQVEVLTNQRARVDVER  
DNLLDDLQRLKAKIQEEIQLKEEAENNLAAFRADVDAATLARIDLERRIESLNEEIAFLK  
KVHEEEIRELQAQLQEQQVQVEMDMSKPDLTAAALRDIRAQYETIAAKNISEAEWYKSKV  
SDLTQAANKNNDALRQAKQEMMEYRHQIQSYTCEIDALKGTNDSLMRQMRELEDRFASEA  
SGYQDNARLEEEIRHLKDEMARHLREYQDLLNVKMALDVEIATYRKLEGEESRINLPI  
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>sp|P15924|DESP\_HUMAN Desmoplakin OS=Homo sapiens GN=DSP PE=1 SV=3

MSCNGGSHPRINTLGRMIRAESGPDRLRYEVTSGGGGTSRMYYSRRGVITDQNSDGYCQTG  
TMSRHQNQNTIQELLQNCSDCLMRAELIVQPELKYGDGIQLTRSRELDECFAQANDQMEI



LDSLIREMRQMGQPCDAYQKRLLQLQEOMRALYKAISVPRVRRASSKGGGGYTCSGSGW  
DEFTKHTVSECLGWMRQQAEMDMVAWGVDLASVEQHINSHRGIHNSIGDYRWQLDKIKA  
DLREKSAITYQLEEEYENLLKASFERMDHLRQLQNI IQATSREIMWINDCEEEELLYDWS  
KNTNIAQKQEAFSIRMSQLEVKEKELNKLQESDQLVLNQHPASDKIEAYMDTLQTQSW  
ILQITKCIDVHLKENAAYFQFFEEAQSTEAYLKGLQDSIRKKYPCDKNMPLQHLLEQIKE  
LEKEREKILEYKRQVQNLVNSKKIVQLKPRNPDYRSNKP IILRALCDYKQDQKIVHKGD  
ECILKDNNERSKYYVTGPGVDMLVPSVGLIIPPPNPLAVDLCKIEQYYEAILALWNQL  
YINMKSLVSWHYCMIDIEKIRAMTIAKLKTMREQEDYMKTIADLELHYQEFIRNSQGSEMF  
GDDDKRKIQSQFTDAQHYQTLVILQPGYPQHQTVTTEITHHGTCQDVNHNV IETNRE  
NDKQETWMLMELQKIRRQIEHCEGRMTLKNLPLADQGSSHHITVKINELKSVQNDSSQAIA  
EVLNQLKDMLANFRGSEKYCYLQNEVFGLFKLENINGVTDGYLNSLCTVRALLQAILQT  
EDMLKVYEAREL TEEETVCLDLKVEAYRCGLKKIKNDLNLKSSLLATMKTELQKAQQIHS  
QTSQQYPLYDLDLGKFGEKVTQLTDRWQRIDKQIDFRLWDLEKQIKQLRNYRDNYQAFCK  
WLYDAKRRQDSLES MKFGDSNTVMRFLNEQKNLHSEISGRDKSEEVQKIAELCANSIKD  
YELQLASYTSGLETLLNPIKRTMIQSPSGVILQEAADVHARYIELLTRSGDYRFLSEM  
LKSLEDLKLKNTKIEVLEEEELRLARDANSENCNKNKFLDQNLQKYQAEC SQFKAKLASLE  
ELKRQAELDGKSAKQNLDKCYGQIKELNEKITRLTYEIEDEKRRRKSVEDRFDQQKNDYD  
QLQKARQCEKENL GWQKLESEKAIKEKEYEIERLRVLLQEEGTRKREYENELAKVRNHYN  
EEMSNLRNKYETEINITKTTIKEISMQKEDDSKNLRNQLDRLSRENRLKDEIVRLNDSI  
LQATEQRRRAEENALQQKACGSEIMQKKQHLEIELKQVMQQRSEDNARHKQSLEAAKTI  
QDKNKEIERLKA EFQEEAKRRWEYENELSKVRNNYDEEII SLKNQFETEINITKTTIHQL  
TMQKEEDTSGYRAQIDNLTRENRLSEEIKRLKNTLTQTENLRRVEEDIQQQKATGSEV  
SQRKQQLLEVELRQVTQMRTESVRYKQSLDDAAKTIQDKNKEIERLKQLIDKETNDRKCL  
EDENARLQRVQYDLQKANS SATETINKLVQE QELTRLRIDYERSVQERTVKDQDITRFQ  
NSLKELQLQKQKVEEELNRLKRTASEDSCKRKKLEEELEGMRSLKEQA IKITNL TQQL  
QASIVKKRSEDDLQRQDVL DGHLEKQRTQEELRRLSSEVEALRRQLLQEQESVKQ AHL  
RNEHFQKAIEDKSRLNESKIEIERLQSLTENLTKEHLMLEEEELNRLLEYDDLRRGRSE  
ADSDKNATILELRSQLQISNNRTLELQGLINDLQRERENLRQEIEKFQKQALEASNRIQE  
SKNQCTQVVQERESLLVKIKVLEQDKARLQRLEDELNRAKSTLEAETRVKQRLCEKQOI  
QNDLNQWKTQYSRKEEAIRKIESEREKSEREKNLSRSEIERLQAEIKRIEERCRRKLEDS  
TRETQSQLETERSRYQREIDKLQRQPYGSHRETQTECEWTVDTSKLVFDGLRKKVTAMQL  
YECQLIDKTTLDKLLKGKKSVEEVASEIQPFLRGAGSIAGASAPKEKYS LVEAKRKKLI  
SPESTVMLLEAQAATGGIIDPHRNEKLTVD SAIARDLIDFDDRQQIYAAEKAITGFDDPF  
SGKTVSVSEAIKKNLIDRETGMRLLEAQIASGGVDPVNSVFLPKDVALARGLIDRDLYR  
SLNDPRDSQKNFVDPVTKKKVS YVQLKERCRIEPTGLLLLSVQKRSM SFQGIRQPVTVT  
ELVDSGILRPSTVNELESGQISYDEVGERIKDFLQSSCIAGIYNETTKQKLG IYEAMKI  
GLVRPGTALELLEAQAATGFIVDPVSNLRLPVEEAYKRGLVGIEFKEKLLSAERAVTGYN  
DPETGNIIISLFQAMNKELIEKGHGIRLLEAQIATGGIIDPKESHRLPVDIAYKRGYFNEE  
LSEILSDPSDDTKGFFDPNTEENLTYLQLKERC IKDEETGLCLLPLKEKKKQVQTSQKNT  
LRKRRVVIDPETNKEMSVQEAYKKGLIDYETFKELC EQECEWEEITITGSDGSTRVVLV  
DRKTGSQYDIQDAIDKGLVDRKFFDQYRSGSLSLTQFADMISLKNVGTSSSMGSGVSDD  
VFSSSRHESVSKISTISSVRNLTIRSSSFSDTLEESSPIAAIFDTENLEKISITEGIERG  
IVDSITGQRLLEA QACTGGIIHPTTGQKLSLQDAVSQGVIDQDMATRLKPAQKAFIGFEG  
VKGKKKMSAAEAVKEKWLPYEAGQRFLEFQYLTGGLVDPEVHGRISTEEAIRKGFIDGRA

AQRLQDTSSYAKILTCPKTKLKISYKDAINRSMVEDITGLRLLEAASVSSKGLPSPYNMS  
SAPGSRSGSRSGSRSGSRSGSRSGSRRGSFDTGNSSYSYSYSFSSSSIGH

>sp|Q99418|CYH2\_HUMAN Cytohesin-2 OS=Homo sapiens GN=CYH2 PE=1 SV=2

MEDGVYEPPDLTPEERMELNIRRRKQELLVEIQRLREELSEAMSEVEGLEANEKSKTLQ  
RNRKMAMGRKKFNMDPKKGIQFLVENELLQNTPEEIIARFLYKGEGLNKTAIGDYLGEREE  
LNLAVLHAFVDLHEFTDLNLVQALRQFLWSFRLPGEAQKIDRMMEAFQAQRYCLCNPGVFQ  
STDTCYVLSFAVIMLNTSLHNPVNRDKPGLERFVAMNRGINEGGDLPEELLRNLYDSIRN  
EPFKIPEDDGNLTHTFNPDREGWLLKGGGRVKTWKRRWFILTDNCLYYFEYTTDKEP  
RGIIPLENLSIREVDDPRKPNCFELYIPNNKGQLIKACKTEADGRVVEGNHVMYRISAPT  
QEEKDEWIKSIQAAVSVDPFYEMLAARKKRISVKKKQEQP

>sp|Q6ZMK1|CYHR1\_HUMAN Cysteine and histidine-rich protein 1 OS=Homo sapiens GN=CYHR1  
PE=1 SV=2

MAPKPGAEWSTALSHLVGVVSLHAAVSTAEASRGAAAGFLLQVLAATTTLAPGLSTHED  
CLAGAWVATVIGLPLLAADFHWCTNGHLMCAGCFIHLLADARLKEEQATCPNCRCEISKS  
LCCRNLAWEKAVSELPSGCFQRQFPRSLERHQKEECQDRVTQCKYKRIGCPWHGPFH  
ELTVHEAACAHPTKTGSELMEILDGMDQSHRKEMQLYNSIFSLLSFEKIGYTEVQFRPYR  
TDDFITRLYYETPRFTVLNQTVWLKARVNDSEPNLSCKRTLSFQLLLKSKVTAPLECS  
FLLKGPYDDVRISPVIYHFVFTNESNETDYVPLPIIDSVECNKLLAAKNINLRLFLFQI  
QK

>sp|Q717R9|CYS1\_HUMAN Cystin-1 OS=Homo sapiens GN=CYS1 PE=1 SV=1

MGSGSSRSRTLRRRRSPESLPAGPGAAALEGGTRRRVPVAAAEPGAAEEAPGRDPSP  
VAPPDGRDETLRLLELLAESAAWGPPEPAPRRPARLRPTAVAGSAVCAEQSTEGHPGSG  
NVSEAPGSGRKKPERPAAISYDHSEGLMASIEREYCR

>sp|P01034|CYTC\_HUMAN Cystatin-C OS=Homo sapiens GN=CST3 PE=1 SV=1

MAGPLRAPLLLLAILAVALAVSPAAGSSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEY  
NKASNDMYHSRALQVVRARKQIVAGVNYFLDVELGRITCTKTQPNLDNCPFHDQPHLKRK  
AFCSFQIYAVPWQGTMTLSKSTCQDA

>sp|Q5M775|CYTSB\_HUMAN Cytospin-B OS=Homo sapiens GN=SPECC1 PE=1 SV=1

MRSAAPWNPAPRAGGHGPDVRPLPAASSGMKSSKSSSTSLAFESRLSRLKRASSEDTLN  
KPGSTAASGVVRLKKTATAGAISELTESRLRSGTGAFITTKRTGIPAPREFSVTVSRERS  
VPRGPSNPRKSVSSPTSSNTPTPTKHLRTPSTPKPKQENEGGEKAALESQVRELLAEAKAK  
DSEINRLRSELKKYKEKRTLNAEGTDALGPNVDGTSVSPGDTEPMIRALEEKNKNFQKEL  
SDLEENRVLKEKLIYLEHSPNSEGAASHTGDSSCPTSITQESSFGSPTGNQMSSDIDEY  
KKNIHGNAIRTSGLSSSDVTKASLSPDASDFEITAETPSRPLSSTSNPFKSSKSTAGS  
SPNSVSELSLASLTEKIQKMEENHHSTAELQATLQELSDQQQMVQELTAENEKLVDEKT  
ILETFSHQHRERAELSQENEKLMNLLQERVKNEEPTTQEGKIIIELEQKCTGILEQGRFE  
REKLLNIQQQLTCSLRKVEEENQGALEMIRKLEENEKLENEFLELERHNNMMAKTLEEC  
RVTLEGLKMEGSLKSHLQGEKQKATEASAVEQTAESCEVQEMLKVARAEKDLELSCNE  
LRQELLKANGEIKHVSSLLAKVEKDYSYLKEICDHQAEQLSRTSLKLQEKASESDAEIKD  
MKETIFELEDQVEQHRVAVKLHNNQLISELESSVILKEEQKSDLERQLKTLTKQMKETEE  
WRRFQADLQTAVVVANDIKCEAQQLRTVKKRLLEEEKNARLQKELGDVQGHGRVVTSR  
AAPPVDEEPESSEVDAAGRWPVCVSRSTPTPPESATTVKSLIKSFDLGRPGGAGQNIS  
VHKTPRSPLSGIPVRTAPAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGRT  
ETLKPDPHLRKSPSLESLSRPPSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREY

GGSKRNALLKWCQKKTQGYANIDITNFSSSWSDGLAFCALLHTYLP AHIPYQELNSQEKK  
RNLLLAFAEAAESVGIKPSLELSEMLYTDRPDWQSVMQYVAQIYKYFET

>sp|P81534|D103A\_HUMAN Beta-defensin 103 OS=Homo sapiens GN=DEFB103A PE=1 SV=2

MRIHYLLFALLFLFLVPVPGHGGIINTLQKYYCRVRGGRCVLSCLPKEEQIGKCSTRGR  
KCCRRKK

>sp|Q86T65|DAAM2\_HUMAN Disheveled-associated activator of morphogenesis 2 OS=Homo sapiens  
GN=DAAM2 PE=1 SV=3

MAPRKRSHHGLGFLCCFGGSDIPEINLRDNHPLQFMEFSSPIPNAEELNIRFAELVDELD  
LTDKNREAMFALPPEKKWQIYCSKKKEQEDPNKLATSWPDYYIDRINSMAAMQSLYAFDE  
EETEMRNQVVEDLKTALRTQPMRFVTRFIELEGLTCLLNFLRSMDHATCESRIHTSLIGC  
IKALMNNSQGRAHVLAQPEAISTIAQSLRTENSKTKVAVLEILGAVCLVPGGHKKVLQAM  
LHYQVYAAERTRFQTLNLDRLSGRYRDEVNLKTAIMSFINAVLNAGAGEDNLEFRLHL  
RYEFLMLGIQPVIDKLQRHENAILDKHLDFEMVRNEDDLELARRFDMVHIDTKSASQMF  
ELIHKKLKYTEAYPCLLSVLHHCQLMPYKRNGGYFQQWQLLDRILQQIVLQDERGVDPDL  
APLENFNVKNIIVNMLINENEVKQRDQAEKFRKEHMELVSRLERKERECECTKTLEKEEMM  
RTLNMKDKLARESQELRQARGQVAELVAQLSELSTGPVSSPPPPGGPLTLSSSMTNDL  
PPPPPLPFACPPPPPPPLPPGGPPTPPGAPPCLGMGLPLPQDPYPSSDVPLRKKRVPQ  
PSHPLKSFNWKLNEERVPGTVWNEIDDMQVFRILDLEDFEKMFSAYQRHQKELGSTEDI  
YLASRKVKELSVIDGRRQNCIILLSKLKLSNEEIRQAILKMDEQEDLAKDMLEQLLKFI  
PEKSDIDLLEEHKHEIERMARADRFLYEMSRIDHYQQRLQALFFKKKFQERLAEAKPKVE  
AILLASRELVRSKRLRQMLEVILAIGNFMNKGQRGGAYGFRVASLNKIADTKSSIDRNIS  
LLHYLIMILEKHFPDILNMPSELQHLPEAAKVNLAELEKEVGNLRRGLRAVEVELEYQRR  
QVREPSDKFVPVMSDFITVSSFSFSELEDQLNEARDKFAKALMHFGEHDSKMQPDEFFGI  
FDTFLQAFSEARQDLEAMRRRKEEEEERRARMEAMLKEQRERERWQRQRKVLAAAGSSLEEG  
GEFDDLVSALRSGEVFDKDLCKLRSRKRSGSQALEVTRERAINRLNY

>sp|P98082|DAB2\_HUMAN Disabled homolog 2 OS=Homo sapiens GN=DAB2 PE=1 SV=3

MSNEVETSATNGQPDQQAAPKAPSKKEKKKGPEKTDEYLLARFKGDGVKYKAKLIGIDDV  
PDARGDKMSQDSMMKLKGMAAAGRSQGQHKQRIWVNISLSGIKIIDEKTGVIEHEHPVVK  
ISFIARDVTDNRAFQYVCGGEGQHFFAIKTGQQAEPVLVDLKDLFQVIYNVKKKEEEKK  
KIEEASKAVENGSEALMILDDQTNKLKSGVDQMDLFGDMSTPPDLNSPTESKDILLVDLN  
SEIDTNQNSLRENPF LTNGITSCSLPRPTQASFLPENAFSANLNFFPTPNPDPFRDDPF  
TQPDQSTPSSFDLSKSPDQKKENSSSSTPLSNGPLNGVDVDFGQQFDQISNRTGKQEAQ  
AGPWPFSSTQTPAVRTQNGVSEREQNGFSVKSSPNPFVGSPPKGLSIQNGVKQDLESSV  
QSSPHDSIAIIPPPQSTKPGRRRTAKSSANDLLASDIFAPPVSEPSGQASPTGQPTALQ  
PNPLDLFKTSAPAPVGPLVGLGGVTVTLPQAGPWNTASLVFNQSPSMAPGAMMGQPSGF  
SQPVI FGTSAPVSGWNQPSFPAASTPPPPVPVWGPSASVAPNAWSTTSPLGNPFQSNIFP  
APAVSTQPPSMHSSLLVTPPQPPPRAGPPKDISSDAFTALDPLGDKEIKDVKEMFKDFQL  
RQPPAVPARKGEQTSSGTLASFASYFNSKVGIPQENADHDDFDANQLLNKINEPPKPAPR  
QVSLPVTKSTDNAFENPFKDSFGSSQASVASSQPVSSEMYRDPFGNPFA

>sp|Q5VWQ8|DAB2P\_HUMAN Disabled homolog 2-interacting protein OS=Homo sapiens GN=DAB2IP  
PE=1 SV=2

MSAGGSARKSTGRSSYYYRLLRRPRLQRQSRSRSTRPARESPQERPGSRRSLPGSLSE  
KSPSMEPSAATPFRVTGFLSRRLKGSIKRTKSQPKLDRNHSFRHILPGFRSAAAAAADNE  
RSHLMPRLKESRSHESSLSPSSAVEALDLSMEEEVV IKPVHSSILGQDYCFEVTSSGSK

CFSCRSAAERDKWMENLRRVHPNKNDSRRVEHILKLWVIEAKDLPakKKYLCELCLDDV  
LYARTTGKLTNDNVFWGEHFEFHNLPPLRTVTVHLYRETDKKKKKERNsYLGVLSPAAS  
VAGRQFVEKWYPVVTNPNKGGKGPMPMIRIKARYQTITILPMEMYKEFAEHITNHYLGLC  
AALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLTK  
AIEEYLKLVGQKYLQDALGEFIKALYESDENCEVDPSKCSAADLPEHQGNLKMCCELAFc  
KIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQ  
EYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQRFLLEISNPET  
LSNTAGFEGYIDLGRELSSLHSLWEAVSQLEQSIVSKLGPLPRILRDVHTALSTPGSGQ  
LPGTNDLASTPGSGSSSISAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQ  
PSPARSSSYSEANEPDLQMANGGKSLSMVDLQDARTLDGEAGSPAGPDVLPDGGAAAAQ  
LVAGWPARATPVNLAGLATVRRAGQTPTTPGTSEGAPGRPQLLAPLSFQNPVYQMAAGLP  
LSPRGLGDSGSEGHSSLSHSNSEELAAAAKLSFSSTAAEELARRPGELARRQMSLTEKG  
GQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPNLLSTLQYPRPSSGTLASASPDW  
VGPSTRLRQQSSSSKGDSPeLKPRAVHKQGPSPVSPNALDRtAAWLLTMNAQLLEDEGLG  
PDPPhRDRLRSKDELSQAekDLAVLQDKLRISTKKLEEYETLfkCQEETTQKLvLEYQAR  
LEEgeERLRRQEDKDIQMGKIISRLMSVEEELKKDHAEMQAavDSKQKIIDAQEKRIAS  
LDAANARLMSALTQLKERYSMQARNGISPTNPTKLQITENGEFRNSSNC

>sp|Q96NX9|DACH2\_HUMAN Dachshund homolog 2 OS=Homo sapiens GN=DACH2 PE=2 SV=1

MAVSASPVISATSSGAGVPGGLFRAEPLYSTPREPPRLTPNMINSFVNNHSNSAGGGGR  
GNTNTNECRMVDMHGMKVASFLMDGQELICLPQVFDLFLKHLVGGLHTVYTKLRLDISP  
VVCTVEQVRILRGLGAIQPGVNRCKLITRKDFETLFTDCTNARRKRQMRKQAVNSSRPG  
RPPKRSGLVQENARLLTHAVPGLSPGLITPTGITAAAMAEAMKLQKMKLAMNTLQGN  
GSQNGTESEPDDLNSNTGGSSESWDKDKMQSPFAAPGPQHGIAHAALAGQPGIGGAPTln  
PLQQNHLLTNRLDLPFMMMPHPLLPVSLPPASVAMAMNQMNHlNTIANMAAAAIHSPLS  
RAGTSVIKERIPESPAPSLREENHRPGSQTSSTSSSVSSSPSQMDHHLERMEEVPVQI  
PIMKSPLDKIQLTPGQALPAGFPGPFIFADSLSSVETLLTNIQGLLKVALDNARIQEKQI  
QQEKELRLELYREREIRENLERQLAVELQSRTTMQKRLKKEKTKRKLQEALFESKRR  
EQVEQALKQATTSDSGLRMLKDTGIPDIEIENNGTPHDSAMQGgNYCLEMAQQLYSA

>sp|Q30KQ6|DB114\_HUMAN Beta-defensin 114 OS=Homo sapiens GN=DEFB114 PE=1 SV=1

MRIFYYLHFLCYVTFILPATCTLVNADRCKRYGRCKRDCLESEKQIDICSLPRKICCTE  
KLYEEDDMF

>sp|Q96PH6|DB118\_HUMAN Beta-defensin 118 OS=Homo sapiens GN=DEFB118 PE=2 SV=1

MKLLLLALPMLVLLPQVIPAYSGEKKCWNRSGHCRKQCKDGEAVKDTCKNLRACCIPSNE  
DHRRVPATSPTPLSDSTPGIIDDILTvrFTTDYFEVSSKKDMVEESEAGRGTETSLPNVH  
HSS

>sp|Q8N687|DB125\_HUMAN Beta-defensin 125 OS=Homo sapiens GN=DEFB125 PE=2 SV=2

MNlMLTfIICGLLTRVTGsfEPQKCWKNVGHcRRRCLDTERYIILCRNKLSCCISII  
SHEYTRRAPFVihLEDITLDYSDVDSFTGSPVSMNLITFDTTKFGETMTPETNTPET  
TMPPSEATTPETTMPPSETATSETMPPPSQTALTHN

>sp|Q9BYW3|DB126\_HUMAN Beta-defensin 126 OS=Homo sapiens GN=DEFB126 PE=1 SV=2

MKSLLFTLAVFMLLAQLVSGNWYVKCLNDVGICKKKCKPEEMHVKNGWAMCGKQRDCCV  
PADRRANYPVFCVQTKTTRISTVTATTATTTLMMTTASMSMAPTPVSPTG

>sp|Q9NR28|DBLOH\_HUMAN Diablo homolog, mitochondrial OS=Homo sapiens GN=DIABLO PE=1 SV=1

MAALKSWLSRSVTSFFRYRQCLCVPVVANFKKRCFSELIRPWHKTVTIGFGVTLCAVPIA

QKSEPHSLSSEALMRRVSLVTDSTSTFLSQTTYALIEAITEYTKAVYTLTSLYRQYTSL  
LGKMNSEEEDEVQVVIIGARAEMTSKHQEYLKLETTWMTAVGLSEMAAEAAAYQTGADQAS  
ITARNHIQLVKLQVEEVHQLSRKAETKLAEAQIEELRQKTQEEGEERAESEQEAYLRED

>sp|Q5VW00|DC122\_HUMAN DDB1- and CUL4-associated factor 12-like protein 2 OS=Homo sapiens  
GN=DCAF12L2 PE=2 SV=1

MAQQQTGSRKRKAPAVEAGAGSSSSQGLAAADGEGPLLPKKQKRPATRRRLVHYLKGREV  
GARGPAGLQGFEGELRGYAVQRLPELLTERQLDLGTLNKFASQWLNARQVVCGTKCNTL  
FVVDVQSGHITRIPLMRDKEAGLAQAHQCGCIHAIELNPSKTLATGGENPNSLAIYQLP  
TLDPLCLGDRHGHKDWIFAVAWLSDTVAVSGSRDGTVALWRMDPDMFNCSIASHSEVGLP  
VYAHIRPRDVEAIPRASTNPSNRKVRALAFSGKNQELGAVSLDGYFHLWKARSTLSRLLS  
IRLPYCENVCLTYCDELSLYAVGSQSHVSFLDPRQRQQNIRPLCSREGGTGVRSLSFYQ  
HIITVGTGHGSLLFYDIRAQKFLEERASSSLDSMPGPAGRKLLACGRGWLNQDDVWVNY  
FGMGGEFPNALYTHCYNWPEMKLFVAGGPLPSGLHGNYAGLWS

>sp|Q9Y6G9|DC1L1\_HUMAN Cytoplasmic dynein 1 light intermediate chain 1 OS=Homo sapiens  
GN=DYNC1LI1 PE=1 SV=3

MAAVGRVGSFGSSPPGLSSTYTGGPLGNEIASGNGGAAAGDDEDGQNLWSCILSEVSTRS  
RSKLPAAGKNVLLGEDGAGKTSIRKIQGIEEYKKGRGLELYLNVHDEDRDDQTRCNVW  
ILDGDLYHKGLLKFSLDVAVSLKDTLVMLVVDMSKPWTALDSLQKWASVREHVDKLIKPP  
EEMKQMEQKLIRDFQEYVEPGEDFPASPQRNTASQEDKDDSVVLPLGADTLTHNLGIPV  
LVVCTKDAISVLEKEHDYRDEHDFIQSHIRKFCLQYGAALIYTSVKENKNIDLVIKYI  
VQKLYGFPYKIPAVVVEKDAVFIPAGWDNDKKIGILHENFQTLKAEDNFEDIITKPPVRK  
FVHEKEIMAEDDQVFLMKLQSLAKQPPTAAGRPVDASPRVPGGSPRTPNRSVSSNVASV  
SPIPAGSKKIDPNMKAGATSEGLANFFNSLLSKKTGSPGGPGVSGGSPAGGAGGGSSGL  
PPSTKKSGQKPVLDVHAELDRITRKPVTVSPTTPTSPTEGEAS

>sp|Q3SXM0|DC4L1\_HUMAN DDB1- and CUL4-associated factor 4-like protein 1 OS=Homo sapiens  
GN=DCAF4L1 PE=2 SV=1

MEAERLRLLEEEAKLKKVARMGFNASSMLRKSQGLFLNVTSYSRLANELRVSCMERKKVQ  
IRSLDPSSLASDRNFILASTNSDQLFVVNQVEVEGSKYGIISLRTLKIPSFHVYVLRNL  
YVPRNKVKSCLCWAASNQLDSHVLLCFEGITDAPSCAVLLPASRFLSVHTRVNQPGMLCSF  
QIPEAWSCAWSLNTRAYHCFSAGLSQQVLLTSVATGHQQSFDTSSDVLAAQFASTAPLLF  
NGCRSGEIFAIDLRCRNRGKGWRATRLFHDSAVTSVQILQEEQCLMASDMTGKIKLWDLR  
ATKCVRQYEGHVNESAYLPLHVHEEGIVVAVGQDCYTRIWSLHDAHLLRTIPSPYSASE  
DDIPSVAFASRLGGIRGAAPGLMAVRQDLYCFPFS

>sp|Q96JK2|DCAF5\_HUMAN DDB1- and CUL4-associated factor 5 OS=Homo sapiens GN=DCAF5 PE=1  
SV=2

MKRRAGLGGSMRSVVGFSLQRGLHGDPLLTQDFQRRRLRGCRNLYKKDLLGHFGCVNAIE  
FSNNGGQWLVSFGDDRRVLLWHMEQAIHSRVKPIQLKGEHHSNIFCLAFNSGNTKVFSGG  
NDEQVILHDVESSETLDVFAHEDAVYGLSVSPVNDNIFASSDDGRVLIWDIRESHPGEP  
FCLANYPSAFHSVMFNPVEPRLLATANSKEGVGLWDIRKPQSLLRYGGNLSLQSAMSVR  
FNSNGTQLLALRRRLPPVLYDIHSRLPVFQFDNQGYFNSCTMKSCCFAGDRDQYILSGSD  
DFNLYMWIRIPADPEAGGIGRVVNGAFMVLKGHSIVNQVRFPHTYMICSSGVEKIIKIW  
SPYKQPGCTGDLGRIEDDSRCLYTHEEYISLVLSGSGLSHDYANQSVQEDPRMMAFFD  
SLVRREIEGWSSDSDSLSESTILQLHAGVSERSGYTDESSASLPRSPPTVDESADNA  
FHLGPLRVTTTNTVASTPPTPTCEDAASRQQLSALRRYQDKRLALSNESDSEENVCEV

ELDTDLFPRPRSPPEDESSSSSSSSSEDEEELNERRASTWQRNAMRRRQKTTREDKPS  
APIKPTNTYIGEDNYDYPQIKVDDLSSSPTSSPERSTSTLEIQPSRASPTSDIESVERKI  
YKAYKWLRYSYISYNNKDGETSLVTGEADEGRAGTSHKDNPAOSSSKEACLNIAAQRN  
QDLPEGCSKDTFKEETPRTPSNGPGHEHSSHAWAEVPEGTSQDTGNSGSVEHPFETKKL  
NGKALSSRAEPPSPFPVKASGSTLNSGSGNCPRTQSDDSEERSLETICANHNNRGLHPR  
PPHPHNNGQNLGELEVAYSSPGHSDTDRDNSSLTGTLHLKDCCGSEMACEPTNAGTRED  
PTDTPATDSSRAVHGHSGLKRQRIELEDTSSENSSSEKKLKT

>sp|Q5TAQ9|DCAF8\_HUMAN DDB1- and CUL4-associated factor 8 OS=Homo sapiens GN=DCAF8 PE=1  
SV=1

MSSKGSSTDGRTDLANGSLSSSPEEMSGAEEGRETSSGIEVEASDLSLSLTGDDGGPNRT  
STESRGTDTESSGEDKSDSMEDTGHYSINDENRVHDRSEEEEEEEEEEEEEEQPRRRVQR  
KRANRDQDSSDDERALEDWVSSETALPRPRWQALPALRERELGSSARFVYEACGARVVF  
QRFRLQHGLEGHTGCVNTLHFNQRGTWLASGDDLKVVVWDWVRRQPVLDVFESGHKSNVF  
QAKFLPNSGDSTLAMCARDGQVVAELSATQCKNTRVAQHKGASHKLALPDSPCTFL  
SAGEDAVVFTIDLQRDPASKLVVTKKEKKVGLTYIYVNPANTHQFAVGGRDQFVRIYD  
QRKIDENENNGVLKKFCPHHLVNSESKANITCLVYSHDGTCELLASYNDEDIYLFNSSHSD  
GAQYVKRYKGRNNATVKGVNFYGPKEFVVSFGSDCGHIFLWEKSSCQIIQFMEDKGGV  
VNCLEPHPLPVLATSGLDHDKIWAPTAEASTELTGLKDVIKKNKREDEDSLHQTDLF  
DSHMLWFLMHHLRQRHRRRWREPGVGATDADSDESPSSSDTSDEEEGPDRVQCMPS

>sp|A8MYV0|DCDC2C\_HUMAN Doublecortin domain-containing protein 2C OS=Homo sapiens  
GN=DCDC2C PE=3 SV=3

MGTRGPSAPVDTPAKTIVVYRNGDPFYVGKKFVLSRRRAATFEALLEQLTEQVDVPFGV  
RRLFTPTRGHRVLGLDALQAGGKYVAAGRERFKELDYIHIVPRKPAKIRKLKEIKPVVHC  
DINVPSKWQTYHRISRINVTNGRLFIPPAKIIIPKFSLSWDIVLATIGEKVFPLGGV  
RKLFTMNGHLLGDSKDLQDNHFYVAVGLETFKYFPYWKSPRPVSEVQQRVANVEKNSQRK  
KKVDSKGKEPCKYDGIPTKTQDSVYYAKEEKKKTLAEPLVQRGAEGDVYKAPTPSKETQG  
ALDVKEEHNQLEVPVDQAESSCDKHCCHNFAYNKHIHKFWLPVILISIDFEAVE

>sp|Q9NRG7|D39U1\_HUMAN Epimerase family protein SDR39U1 OS=Homo sapiens GN=SDR39U1 PE=1  
SV=2

MGWRRKRVPQRGRKAPPPQLHGNINNLYFPIRWRDLHWDSNPAAECQRHEVTLVSRKP  
GPGRITWDELAASGLPSCDAAVNLAGENILNPLRRWNETFQKEVIGSRLETTQLLAKAIT  
KAPPPKAWVLVTGVAYYQPSLTAEYDEDSPGGDFDFFSNLVTKWEAAARLPGDSTRQVV  
VRSGVVLGRGGGAMGHMLLPFRLGLGGPIGSGHQFFPWIHIGDLAIGLTHALEANHVHGV  
LNGVAPSSATNAEFAQTLGAALGRRAFIPLPSAVVQAVFGRQRAIMLLEGQKVIPQRTLA  
TGYYQSFPELGAALKEIVA

>sp|Q8N9W5|DAAF3\_HUMAN Dynein assembly factor 3, axonemal OS=Homo sapiens GN=DNAAF3 PE=1  
SV=3

MTTPAGSGSGFGSVSWGLSPALDLQAESPPVDPDSQADTVHSNPELDVLLGSVDGRHL  
LRTLRAKFWPRRRNFVLENNLEAVARHMLIFSLALEEPEKMGLQERSETFLEWVGN  
LLRPPVAAFVRAQADLLAHLVPEPDRLEEQLPWLRLALKFRERDALEAVFRFWAGGEKG  
PQAFPM SRLWDSRLRHYLGSRYDARRGVSDWDLRMKLHDRGAQVIHPQEFRWRDGTGAF  
ELRDSSAYHVPNRTLASGRLLSYRGERVAARGYWGDIATGPFVAFGIEADDESLLRTSNG  
QPVKTAGETITQHNVELLRDVAWGRARATGGDLEEQQHAEGSPEPGTPAAPTPESTVH  
FLPLDSAQTLHHKSCYNGRFQLLYVACGMVHLLIPELGACVAPGGNLIVELARYLVDVRQ

EQLQGFNTRVRELAQAAGFAPQTGARPSETFARFCKSQESALGNTVPAVEPGTPPLDILA  
QPLEASNPALEGLTQPLQGGTPHCEPCQLPSESPGSLSEVLAQPQALAPPNCESDSKTG  
V

>sp|Q86Y56|DAAF5\_HUMAN Dynein assembly factor 5, axonemal OS=Homo sapiens GN=DAAF5 PE=1  
SV=4

MAALGVAEAVAAPHPAEGAETAEAVELSRALSRLLPGLEADSKPGRRRALEALRRALEEP  
GPAADPTAFQGPWARLLLPRLLRCLSDPAEGCRALAVHLLDLGLRRAARPRDALPRLLPA  
LAARLAGVPVARRPPEACEELRLALVQLLGLAVDLCGAALAPHLDDALRALRCSLLDPFA  
AVRRESCSCAAALAQATPDHFHMQSESLIGPLMQTISHQHWKVRVAAIEATGAVIHFGNG  
KSVDDVLSHFAQRLFDDVPQVRRAVASVVGWLLCLRDRYSFFHKLIPLLLSSLNDEVPE  
VRQLAASLWEDVGLQWKENEEDLKDKLDFAPPTPPHYPPHERRPVLGCRELVFRNLSKI  
LPALCHDITDWWVGTRVKSQALLPVLLLHAEDHATQHLEVLRTLFQACTDEEAADVQSC  
TRSAELVGTFVSPEVFLKLILSTLKKTPSASGLLVLASAMRGCPREALQPHLAAIATELA  
QAHICQASENDLYLERLLLVCVALSVCHEDCGVASLQLLDVLLTIVALAGATGLRDKAQ  
ETMDSLAMVEGVSSCQDLYRKHIGPLLERVTASHLDWTAHSPPELLQFSVIVAQSGPALGE  
ALPHVVPTLRACLQPSQDPQMRKLFSILSTVLLRATDTINSQGQFPSYLETVTKDILAP  
NLQWHAGRATAAIRTAAVSCLWALTSSEVLSAEQIRDVQETLMPQVLTLEEDSKMTRLI  
SCRIINTFLKTSGGMTDPEKLIRIYPELLKRLDDVSNVRRMAAASLTWVLCVKGANAK  
SYYQSSVQYLYRELLVHLDPPERAIQDAILEVLKEGSGLFPDLLVRETEAVIHKHRSATY  
CEQLLQHVQAVPATQ

>sp|P51397|DAP1\_HUMAN Death-associated protein 1 OS=Homo sapiens GN=DAP PE=1 SV=3  
MSSPPEGKLETKAGHPPAVKAGGMRIQKHPHTGDTKEEKDKDDQEWESPPPKPTVFIS  
GVIARGDKDFPPAAAQVAHQKPHASMDKHPSRPTQHIQQPRK

>sp|Q6ZNG2|DBX2\_HUMAN Homeobox protein DBX2 OS=Homo sapiens GN=DBX2 PE=2 SV=2  
MLPSAVAAHAGAYWDV VASSALLNLPAAPGFGNLGKSFLIENLLRVGGAPT PRLQPPAPH  
DPATALATAGAQLRPLPASPVPLKCPAAEQVSPAGAPYGRWAFQVLSADSARLPGR  
APGDRDCTFQPSAPAPSKPFLSTPPFYSACCGGSCRRPASSTAFPREESMLPLLTQDSN  
SKARRGILRRAVFSEDQRKALEKMFQKQYISKTD RKKLAINLGLKESQVKIWFQNRMRK  
WRNSKEKEVLSNRCIQEVGLQEDPLSRSALGFSPCPSIWDVPQQHSSPRWRENSPEPSE  
RLIQESSGAPPEANSLQGALYLCSEEEAGSKGVLTGAV

>sp|Q8WVC6|DCAKD\_HUMAN Dephospho-CoA kinase domain-containing protein OS=Homo sapiens  
GN=DCAKD PE=1 SV=1  
MFLVGLTGGIASGKSSVIQVFQQLGCAVIDVDVMARHVVPGYPAHRRIVEVFGTEVLE  
NGDINRKVLGDLIFNQPD RRQLLNAITHPEIRKEMMKETFKYFLRGYRVILDIPLLFET  
KKLLKYMKHTVVVYCDRDTQLARLMRRNSLNRKDAEARINAQLPLTDKARMARHVLDNSG  
EWSVTKRQVILLHTELEERSLEYLPLRFGVLTGLAAIASLLYLLTHYLLPYA

>sp|A2VCK2|DCD2B\_HUMAN Doublecortin domain-containing protein 2B OS=Homo sapiens  
GN=DCDC2B PE=1 SV=1  
MAGGSPAARKRVVYRNGDPFFPGSQLVVTQRRFPTMEAFLECVTSAVQAPLAVRALYTPC  
HGHVPTNLADLNKRGQYVAAGFERFHKLHYLPHRGKDPGGKSCRLQGPPVTRHLCDGAIG  
RQLPAGAPSYIHVFRNGDLVSPPFSLKLSQAASQDWETVLKLLTEKVKLQSGAVCKLCTL  
EGLPLSAGKELVTGHYYAVGEDEFKDLPYLELLVPSPLPRGCWQPPGSKSRPHRQGAQ  
GHRAQVTQSPKEPDRIKPSAFYARPQQTIQPRSKLPTLSFSPSGVIGVYGAPHRRKETAG  
ALEVADDEDTQTEEPLDQRAAQIVVEALSLENQPGAGAAISASAPALPS

>sp|094830|DDHD2\_HUMAN Phospholipase DDHD2 OS=Homo sapiens GN=DDHD2 PE=1 SV=2

MSSVQSQQEQLSQSDPSPSPNSCSSFELIDMDAGSLYEPVSPHWFYCKIIDSKETWIPFN  
SEDSQQLEEAAYSSGKGCNGRVPTDGGRYDVHLGERMRYAVYWDELASEVRRCTWFYKGD  
KDNKYVPYSEFSQVLEETYMLAVTLDEWKKKLESPNREIIILHNPCLMVHYQPVAGSDD  
WGSTPTEQGRPRTVKRGVENISVDIHCGEPLQIDHLVFVHVGIGPACDLRFRSIVQCVND  
FRSVSLNLLQTHFKKAQENQQIGRVEFLPVNWHSPHSTGVDVDLQRITLPSINRLRHFT  
NDTILDVFFYNSPTYCQTIVDTVASEMNRIYTLFLQRNPDFKGGVSIAGHSLGSLILFDI  
LTNQKDSLGDIDSEKDSLNIQMDQDTPLEEDLKKLQLEFFDIFEKEKVDKEALALCT  
DRDLQEIGIPLGPRKKILNYFSTRKNSMGIKRPAPQPASGANIPKESEFCSSSNTRNGDY  
LDVGIGQVSVKYPRLIYKPEIFFAFGSPIGMFLTVRGLKRIDPNYRFPCTCKGFFNIYHPF  
DPVAYRIEPMVPGVEFEPMLIPHHKGRKRMHLELREGLTRMSMDLKNLLGSLRMAWKS  
FTRAPYPALQASETPEETAEPESTSEKPSDVNTEETSVAVKEEVLPINVGMLNGGQRID  
YVLQEKPIESFNEYLFALQSHLCYWESEDTVLLVLKEIYQTQGIFLDQPLQ

>sp|Q8WTU0|DDI1\_HUMAN Protein DDI1 homolog 1 OS=Homo sapiens GN=DDI1 PE=1 SV=1

MLITVYCVRRDLSEVTFSLQVSPDFELRNFKVLCEASRPVVEEIQIIHMERLLIEDHCS  
LGSYGLKDGDIVLLQKDNVGPAPGRAPNQPRVDFSGIAPGTSSSRPQHHPGQQQRTTP  
AAQRSQGLASGEKVAGLQGLGSPALIRSMLLSNPHDLSLLKERNPPLAEALLSGSLETFS  
QVLMEQQREKALREQERLRLYTADPLDREAQAKIEEIRQQNIEENMNIAIEEAPESFGQ  
VTMLYINCKVNGHPLKAFVDSGAQMTIMSQACAERCNIMRLVDRRWAGVAKGVGTQRIIG  
RVHLAQIQIEGDFLQCSFSILEDQPMMLGLDMLRRHQCSIDLKKNVLVIGTTGTQTYF  
LPEGELPLCSRMVSGQDESSDKEITHSVMDSGRKEH

>sp|Q5TDH0|DDI2\_HUMAN Protein DDI1 homolog 2 OS=Homo sapiens GN=DDI2 PE=1 SV=1

MLLTVYCVRRDLSEVTFSLQVDADFEHLNFRALCELESGIPAAESQIVYERPLTDNHR  
LASYGLKDGDVVILRQKENADPRPPVQFPNLPRIDFSSIAVPGTSSPRQRQPPGTQQSHS  
SPGEITSSPQGLDNPALLRDMLLANPHELSLLKERNPPLAEALLSGDLEKFSRVLVEQQQ  
DRARREQERIRLFSADFPDLEAQAKIEEDIRQQNIEENMTIAMEEAPESFGQVVMYLINC  
KVNGHPVKAFVDSGAQMTIMSQACAERCNIMRLVDRRWAGIAKGVGTQKIIGRVHLAQVQ  
IEGDFLPCSFSILEEQPMMLGLDMLKRHQCSIDLKKNVLVIGTTGSQTTFLEPEGELPE  
CARLAYGAGREDVRPEEIQELAEALQKSAEDAERQKP

>sp|P35638|DDIT3\_HUMAN DNA damage-inducible transcript 3 protein OS=Homo sapiens GN=DDIT3  
PE=1 SV=1

MAAESLPFSFGTLSSWELEAWYEDLQEVLSSENGGTYVSPPGNEEEESKIFTTLDPASL  
AWLTEEEPEPAEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGKQRM  
KEKEQENERKVAQLAEENERLKQEIERLTREVEATRRALIDRMVNLHQA

>sp|Q9BQ39|DDX50\_HUMAN ATP-dependent RNA helicase DDX50 OS=Homo sapiens GN=DDX50 PE=1  
SV=1

MPGKLLWGDIMELEAPLEESQKKERQKSDRRKSRHHYDSDEKSETRENGVTDDLDPK  
AKKSKMKEKLNQDTEEGFNRLSDEFSKSHKSRRKDLPNGDIDEYEKSKRVSSLDSTHK  
SSDNKLEETLTREQKEGAFSNFPISEETIKLLKGRGVTYLFPQVKTFGPVYEGKDLIAQ  
ARTGTGKTFSFAIPLIERLQRNQETIKKSRSRSPKVLVLAPTRELANQVAKDFKDIRKLSV  
ACFYGGTSYQSQINHIRNGIDILVGTPGRIKDLQSGRLDLSKLRHVVLDEVDQMLDLGF  
AEQVEDIIHESYKTDSEDNPTLLFSATCPQWVYKVAKKYMSRYEQVDLVGKMTQKAAT  
TVEHLAIQCHWSQRPVIGDVLQVYSGSEGRAIFCETKKNVTEMAMNPHIKNAQCLHG  
DIAQSQREITLKGFRGFSFKVLVATNVAARGLDIPVDLVIQSSPPQDVESYIHRSGRTG



>sp|Q5H9U9|DDX6L\_HUMAN Probable ATP-dependent RNA helicase DDX60-like OS=Homo sapiens  
GN=DDX60L PE=2 SV=2

>sp|075618|DEDD\_HUMAN Death effector domain-containing protein OS=Homo sapiens GN=DEDD  
PF=1 SV=1

MAGLKRRASQVWPEEHGEQEHGLYSLHRMFDIVGTHLTHRDVRLSFLFVDVIDDHERGL  
IRNGRDFLLALERQGRCDESNFRQVLQLLRITTRHDLLPYVTLKRRRAVCPDLVDKYLEE  
TSIRYVTPRALSDPEPRPPQPSKTVPPHPYVVCCTSGPQMCSKRPARGRATLGSQRKRR  
KSVTPDPKEKQTCDIRLRVRAEYQCHE TALQGNVFSNKQDPLERQFERFNQANTILKSRD  
LGSICDIKFSELTYLDAFWRDYINGSLLEALKGVFITDSLKQAVGHEAIKLLVNVDEED  
YELGRQKLLRNMLQALP

>sp|Q30KQ7|DB113\_HUMAN Beta-defensin 113 OS=Homo sapiens GN=DEFB113 PE=3 SV=1  
 MKILCIFLTFVFTVSCGPSVPQKKTREVAERKRECQLVRGACKPECNSWEYVYYCNPV  
 CCAVWEYQKPIINKITSKLHQK

>sp|Q30KQ4|DB116\_HUMAN Beta-defensin 116 OS=Homo sapiens GN=DEFB116 PE=3 SV=1  
 MSVMKPCLMTIAILMILAQKTPGGLFRSHNGKSREPWNPCELYQGMCRNACREYEIQYLT  
 CPNDQKCCLKLSVKITSSKNVKEDYDSNSNLSVTNSSSYSHI

>sp|Q5J5C9|DB121\_HUMAN Beta-defensin 121 OS=Homo sapiens GN=DEFB121 PE=1 SV=1  
 MKLLLLLLTVTLQAQVTPVMKCWGKSGRCRTTCKESEVYYILCKTEAKCCVDPKYVPVK  
 PKLTDNTSLESTSAV

>sp|Q8N688|DB123\_HUMAN Beta-defensin 123 OS=Homo sapiens GN=DEFB123 PE=2 SV=1  
 MKLLLLTLTVLLLSQLTPGGTQRCWNLYGKCRYRCSKKERVYVYCINNKMCCVKPKYQP  
 KERWWPF

>sp|Q8NES8|DB124\_HUMAN Beta-defensin 124 OS=Homo sapiens GN=DEFB124 PE=3 SV=2  
 MTQLLLFLVALLVLGHVPSGRSEFKRCWKGGACQTYCTRQETYMHLCPDASLCCLSYAL  
 KPPVPKHEYE

>sp|P59861|DB131\_HUMAN Beta-defensin 131 OS=Homo sapiens GN=DEFB131 PE=2 SV=2  
 MRVLFVFVGLSLMFTVPPARSFISNDECPSEYHCRCLKNADEHAIRYCADFSICCKLK  
 IIEIDGQKKW

>sp|Q96PD2|DCBD2\_HUMAN Discoidin, CUB and LCCL domain-containing protein 2 OS=Homo sapiens  
 GN=DCBLD2 PE=1 SV=1  
 MASRAVVRARRCPQCPQVRAAAAAPAWAALPLSRSLPPCSNSSFSMPLFLLLLLVLLLL  
 LEDAGAAQGDGCGHTVLGPESGTLTSINYPQTYPNSTVCEWEIRVKMGERVRIKFGDFDI  
 EDSDSCHFNLYRIYNGIGVSRTEIGKYCGLGLQMNHSIESKGNEITLLFMSGIHVSGRGF  
 LASYSVIDKQDLITCLDTASNFLPEFSKYCPAGCLLPFAETSGTIPHGYRDSPLCMAG  
 VHAGVVSNTLGGQISVVISKGIPIYYESSLANNVTSVVGHLSTSLFTFKTSGCYGTLMES  
 GVIADPQITASSVLEWTDHTGQENSWKPKKARLKKPGPPWAAFATDEYQWLQIDLNKEKK  
 ITGIITTGSTMVEHNYYSAYRILYSDDGQKWTVYREPGVEQDKIFQGNKDYHQDVRNNF  
 LPPIIARFIRVNPTQWQKIAMKMELLGCQFIPKGRPPKLTQPPPPRNSNDLKNTTAPPK  
 IAKGRAPKFTQPLQRSSNEFPAQTEQTASPDIRNTTTPNVTKDVALAVALVPLVMV  
 LTTLLILLVCAWHWRNRKKKTEGYDLPYWDRAWWKGMKQFLPAKAVDHEETPVRYSSS  
 EVNHLSPREVTTLQADSAEYAQPLVGGIVGTLHQSTFKPEGKEAGYADLPYNSPGQ  
 EVYHAYAEPLITGPEYATPIIMDMSGHPTTSVGQSTSTFKATGNQPPPLVGTYNTLLS  
 RTDSCSSAAQYDTPKAGKGPLAPDELVYQVPQSTQEVSGAGRDGECDFKEIL

>sp|Q08345|DDR1\_HUMAN Epithelial discoidin domain-containing receptor 1 OS=Homo sapiens  
 GN=DDR1 PE=1 SV=1  
 MGPEALSSLLLLLVASGDADMKGHFDPKCRYALGMQDRTIPDSDISASSWSSTAAR  
 HSRLESSDGDGAWCPAGSVFPKEEYLQVDLQRLHLVALVGTQGRHAGGLGKEFSRSYRL  
 RYSRDGRRWMGWKDRWQGEVISGNEDEPGVVLKDLGPPMVARLVRFYPRADRVMSVCLRV  
 ELYGCLWRDGLLSYAPVGQTMYLSEAVYLNDSYDGHVGGGLQYGGGLQLADGVVGLDD  
 FRKSQELRVWPGYDYGWSNHSFSSGYVEMEFEDRLRAFQAMQVHCNNMHTLGARLPGG  
 VECFRFRGPAMAWEGEPMRHNLGGLGDPRAVSVPLGGRVARFLQCRFLFAGPWLLFS  
 EISFISDVVNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILI  
 GCLVAIILLLLLIALLMLWRLHWRRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPRE  
 PPPYQEPRPRGNPPHSAPCVPNGSALLSNPAYRLLLATYARPPRPGPGPPTPAWAKPTNT

QAYSGDYMEPEKPGAPLLPPPPQNSVPHYAEADIVTLQGVTGGNTYAVPALPPGAVGDGP  
PRVDFPRSRLRFKEKLGEGQFGEVHLCEVDS PQDLVSLDFPLNVRKGHPLLVAVKILRPD  
ATKNARNDFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENGDLNQFLSAHQLED  
KAAEGAPGDGQAAQGPTISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTI  
KIADFGMSRNL YAGDYRVQGRAVLPIRWMWECILMGKFTTASDVWAFGVTLWEVLMC  
RAQPFQGLTDEQVIENAGEFFRDQGRQVYLSRPPACPQGLYELMLRCWSRESEQRPPFSQ  
LHRFLAEDALNTV

>sp|Q96HY6|DDR GK\_HUMAN DDR GK domain-containing protein 1 OS=Homo sapiens GN=DDR GK1 PE=1  
SV=2

MVAPVWYLVAALLVGFILFLTRSRGRAASAGQEPLHNEELAGAGRVAQPGPLEPEEPRA  
GGRPRRRDLGSRLQAQRRARVAAEADENEEEAVILAQEEEGVEKPAETHLSGKIGAK  
KLRKLEEKQARKAQREAAEAEREERKRLSQREAEWKKEEERLRLEEQKEEEEERKAREE  
QAQREHEEYLLKKEAFVVEEEGVGETMTEEQSQSFLTEFINYIKQSKVVLLEDLASQVGL  
RTQDTINRIQDLLAEGTITGVIDDRGKFYITPEELA AVANFIRQRGRVSIAELAQASNS  
LIAWGRESPAQAPA

>sp|Q13206|DDX10\_HUMAN Probable ATP-dependent RNA helicase DDX10 OS=Homo sapiens GN=DDX10  
PE=1 SV=2

MGKTANSPGSGARPDVRSFNRWKKKSHRQNKKKQLRKQLKKPEWQVERESISRLMQNY  
EKINVNEITRFSDFPLSKKTLKGLQEAQYRLVTEIQKQTIGLALQGKDVLGAAKTGSGKT  
LAFLVPVLEALYRLQWTSTDGLGLIIISPTRELAYQTFEVL RKVGKNHDFSAGLIIGKD  
LKHEAERINNINILVCTPGRLLQHMDETVSFHATDLQMLVLDEADRILDMGFADTMNAVI  
ENLPKKRQTLLFSATQTKSVKDLARLSLKNPEYVWVHEKAKYSTPATLEQNYIVCELQKK  
ISVLYSFLRSHLKKKSIVFSSCKEVQYL YRVFCRLRPGVSILALHGRQQMRRMEVYNE  
FVRKRAAVLFATDIAARGLDFPAVNWVLQFDCPEDANTYIHRAGRTARYKEDGEALLILL  
PSEKAMVQQLLQKKVPVKEIKINPEKLIDVQKKLESILAQDQDLKERAQRCFVSYVRSVY  
LMKDKEVFDVSKLPIPEYALSLGLAVAPRVRF LQKMQKQPTKELVRSQADKVI EPRAPSL  
TNDEVEEF RAYFNEKMSILQKGGKRLGTEHRQDNDTGNEEQEEEEDEEEMEELAKAK  
GSQAPSLPNTSEAQKIKEVPTQFLDRDEEEEDADFLKVKRHN VFGLDLKDEKTLQKKEPS  
KSSIKKKMTKVAEAKVMKRNFKVNKKITFTDEGELVQQWPQMKS AIKDAEEDDDTGGI  
NLHKAKERLQEEDKFDKEEYRKKIKAKHREKRLKEREARREANKRQAKAKDEEEAFDWS  
DDDDDDDDGDFDPSTLPDPDKYRSSEDS SEDMENKISDTKKKQGMKKRSNSEVEDVGPTS  
HNRKKARWDTLEPLDTGLSLAEDEELVLHLRSQS

>sp|Q92771|DDX12\_HUMAN Putative ATP-dependent RNA helicase DDX12 OS=Homo sapiens  
GN=DDX12P PE=5 SV=3

MRSGGCGSGSLSLRGPASFKFSGVCPDSRGLAFSVAI LPAKKEDFMAELYRVLEAGKIGI  
FESPTGTGKSLSLICGALSWLRDFEQKKREEEARLLETGTGPLHDEKDESLCLSSSCEGA  
AGTPRPAGEPAWVTQFVQKKEERDLVNRLKAEQARRKQREERLQQLQHRVQLKYAAKRLR  
QEEEEENLLRLSREMLETGPEAERPEQLES GEEELVLAYESDEEKKVASGVDEDEDDL  
EEEHITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNL CVNEDVRSLGSVQLI  
NNRCVDMQRSRHEKKKGAEKKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLL  
ALGKEARACPYGSR LAIPAAQLVVL PYQMLLHAATRQAAGIRLQDQVVIIDEAHNLIDT  
TSMHSVEVSGSQLCQAHSQLLQYMER YGKRLKAKNLMY LKQILYLLEKFVAVLG GNIKQ  
NPNTQSLSQTGME LKTINDFLQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSS  
REQPKLAGFQQFLQSLQPR TTEALAAPADESQASVPQPASPLMHIEGFLAALT TANQDGR

VILSRQGSLSQSTLKFLLLNPAVHFAQVVKECRAVVIAGGTMQPVSNFRQQLLACAGVEA  
ERVVEFSCGHVIPPDNILPLVICSGVSNQPLEFTFQKRDLPMMDDEVGRILCNLCGVVSG  
GVVCFPPSYEYLRQVHAHWEKGGLLRLAARKKIFQEPKSAHQVEQVLLAYSRLQACGQ  
ERGPVTGALLLSVVGKMSSEGINFSDNLGRCVVMGMPFPNIRSAELQEKMAYLDQTLPR  
APGQAHPGKALVENLCMKAVNQSIGRAIRHQKDFASIVLLDQRYARPPVLAKLPAWIRAR  
VEVKATFGPAIAAVQKVSPTFFFLRASQPRDHISHCLLSAQFHREKSASS

>sp|Q9UHI6|DDX20\_HUMAN Probable ATP-dependent RNA helicase DDX20 OS=Homo sapiens GN=DDX20  
PE=1 SV=2

MAAAFEASGALAAVATAMPAEHVAVQVPAPEPTPGPVRILRTAQDLSSPRTRTGDVLLAE  
PADFESLLLSRPVLEGLRAAGFERPSPVQLKAIPLGRCGLDLIVQAKSGTGKTCVFSTIA  
LDLVLLENLSTQILILAPTREIAVQIHSVITAIGIKMEGLECHVFIGGTPLSQDKTRLKK  
CHIAVGSPGRIKQILIEDYLNPGSIRLFILDEADKLLEESFQEQINWIYSSLPASKQML  
AVSATYPEFLANALTKYMRDPTFVRLNSSDPSLIGLKQYYKVVNSYPLAHKVFEETQHL  
QELFSRIPFNQALVFSNLHSRAQHLADILSSKGFPACISGNMNQNRDLAMAKLKHFC  
RVLISTDLTSRGIDAENVNLVNLVDVPLDWETVMHRIGRAGRFGTLGLTVTYCCRGEEEN  
MMMRIAQKCNINLLPLPDPISGLMEECVDWDVEVKAHVHTYGIASVPNQPLKKQIQKIE  
RTLQIQKAHGDHMASSRNNSVSGLSVKSKNNTKQKLPVKSHSECGIIEKATSPKELGCDR  
QSEEQMKNVQTPVENSTNSQHQVKEALPVSPLQIPCLSSFKIHQPYTLTFAELVEDYEH  
YIKEGLEKPVEIIRHYTGPGDQTVNPQNGFVRNKVIEQRPVPLASSSQSGDSESDSDSYS  
SRTSSQSKGNKSYLEGSSDNQLKDSESTPVDDRISLEQPPNGSDTPNPEKYQESPGIQMK  
TRLKEGASQRAKQSRRLNRRSSFRQLTEAQEDDWYDCHREIRLSFSDTYQDYEEYWRAY  
YRAWQEYAAASHSYWNAQRHPSWMAAYHMNTIYLQEMMHSNQ

>sp|Q9GZR7|DDX24\_HUMAN ATP-dependent RNA helicase DDX24 OS=Homo sapiens GN=DDX24 PE=1  
SV=1

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PAKNPSSLFSKEAPKRKAQAVSEEEEEEGKSSSPKKKIKLKKSKNVATEGTSTQKEFEV  
KDPELEAQGDDMVCDDEAGEMTSENLVQTAPKKKKKNKGKGLEPSQSTAACKVPKAKTW  
IPEVHDQKADVSAWKDLFVPRPVLRALSFLGFSAPTPIQALTLAPAIRDKLDILGAAETG  
SGKTLAFAIPMIHAVLQWQKRNAAPPSNTEAPPGETRTEAGAETRSPGKAEAESDALPD  
DTVIESEALPSDIAAEARAKTGGTVSDQALLFGDDDAGEGPSSLIREKPVPKQNEEEEN  
LDKEQTGNLQKELDDKSATCKAYPKRPLLGLVLTPTRELAVQVKQHIDAVARFTGIKTAI  
LVGGMSTQKQQRMLNRRPEIVVATPGRLWELIKEKHYHLRNLRLRCLVVDADMVEKG  
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KIGMRGPKVIDLTRNEATVETLTETKIH CETDEKDFLYFLMQYPGRSLVFANSISCI  
KRLSGLLKVLDIMPLTLHACMHQKQRLRNLEQFARLEDCVLLATDVAARGLDIPKVQHVI  
HYQVPRTSEIYVHRSGR TARATNEGLSMLIGPEDVINFKKIYKTLKKDEDIPLFPVQTK  
YMDVVKERIRLARQIEKSEYRNFQACLNHWIEQAAAALEIELEEDMYGGKADQQEERR  
RQKQMKVLKKELRHLLSQPLFTESQKTKYPTQSGKPPLLVSAPSKSESALSCLSKQKKKK  
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>sp|Q9UJV9|DDX41\_HUMAN Probable ATP-dependent RNA helicase DDX41 OS=Homo sapiens GN=DDX41  
PE=1 SV=2

MEESEPERKRARTDEVPAAGSRSEAEDDEDEDYVPYVPLRQRRQLLLQKLLQRRRKGAEE  
EEQQDSGSEPRGDEDDIPLGPQSNVSLLDQHQHLKEAEARKESAKEKQLKEEEKILES  
AEGRALMSVKEMAKGITYDDPIKTSWTPPRYVLSMSEERHERVRKKYHILVEGDGIPPI

KSFKEMKFPAAILRGLKKKGIIHHTPIQIQGIPTILSGRDMIGIAFTGSGKTLVFTLPVI  
MFCLEQEKRLPFSKREGPYGLIICPSRELARQTHGILEYYCRLLEDSSPLLRCALCIGG  
MSVKEQMETIRHGVHMMVATPGRMLDLLQKKMVSLDICRYLALDEADRMIDMGFEGDIRT  
IFS YFKGQRQTLLFSATMPKKIQNFAKSALVKPVTINVGRAGAASLDVIQEVEYVKEEAK  
MVYLLECLQKTPPPVLIFAEEKADVDAIHEYLLKGV EAVAIHGKDKQEERTKAIEAFRE  
GKKDVLVATDVASKGLDFPAIQHVINYDMPEEIEENYVHRIGRTGRSGNTGIATTFINKAC  
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>sp|Q9NQI0|DDX4\_HUMAN Probable ATP-dependent RNA helicase DDX4 OS=Homo sapiens GN=DDX4  
PE=1 SV=2

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PTRNRGFSKRGGYRDGNNSEASGPYRRGGRGSFRGCRGGFGLGSPNNDLPDECMQRTGG  
LFGSRRPVLSGTGNGDTSQSRSGSGSERGGYKGLNEEVITGSGKNSWKSEAEGGESDQTQ  
GPKVTYIPPPPEDEDSIFAHYQTGINFDKYDTILVEVSGHDAPPAILTFEEANLCQTLN  
NNIAKAGYTKLTPVQKYSIPIILAGRDLMACAQTGSGKTA AFLLPILAHMMHDGITASRF  
KELQEPECIIVAPTRELVNQIYLEARKFSFGTCVRAVVIYGGTQLGHSIRQIVQGCNILC  
ATPGRLMDIIGKEKIGLKQIKYLVLEADRM LDMGFGPEMKKLI SCPGMP SKEQRQTLMF  
SATFP EEIQR LA AEFLKSNYLFVAVGQVGGACRDVQQTVLQVGGFSKREKLVEILRNIGD  
ERTMV FVETKKKADFIATFLCQEKISTTSIHGDREQREREQALGDFRFGKCPVLVATSVA  
ARGLDIENVQHVINFDPSTIDEYVHRIGRTGRCGNTGRAISFFDLESDNHLAQPLVKVL  
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ESWD

>sp|P59666|DEF3\_HUMAN Neutrophil defensin 3 OS=Homo sapiens GN=DEFA3 PE=1 SV=1  
MRTLAILAAILLVALQAQAEPLQARADEVAAPEQIAADIPEVVVSLAWDESLAPKHPGS  
RKNMDCYCRIPACIAGERRYGTCTIYQGR LWAFCC

>sp|Q08495|DEMA\_HUMAN Dematin OS=Homo sapiens GN=DMTN PE=1 SV=3  
MERLQKQPLTSPGSPSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIERPD  
LMIYEPHFTYSLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPRTTGT  
PRTSLPHFHHPETSRPDSNIYKKPPIYKQRESVGGSPQTKHLIEDLIIESSKFPAAQPPD  
PNQPAKIETDYWPCPPSLAVVETEWKRKRKASRRGAE EEEEEEDDSGEEMKALRERQREE  
LSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPFHTSLHQGTSSSLPAYGRTTSLR  
LQSTEFSPSGSETGSPGLQNGEGQGRMDRGNSLPCVLEQKIYPYEMLVVTNKGRTKLPP  
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>sp|Q8IV53|DEN1C\_HUMAN DENN domain-containing protein 1C OS=Homo sapiens GN=DENND1C PE=1  
SV=1

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PPSPAVQHFTFALTDLAGNRRFGFCRLRAGTQSCLCILSHLPWFV FYKLLNTVGDLLAQ  
DQVTEAEELLQNL FQQSLSGPQASVGLELGS GVTVSSGQGI PPPTRGNSKPLSCFVAPDS  
GRLPSIPENRNLT ELVVAVTDENIVGLFAALLAERRVLLTASKLSTLTSCVHASCALLYP  
MRWEHVL IPTLP HLLDYCCAMPYLI GVHASLAERVREKALEDVVVLNVDANTLETTFN  
DVQALPPDVVSLLRLRLRKVALAPGEGVSRLFLKAQALLFGGYRDALVCSGPQPVTFSEE  
VFLAQKPGAPLQAFHRRAVHLQLFKQFIEARLEKLNKGE GFSDFEQEITGCGASSGALR  
SYQLWADNLKKG GALLHSVKAKTQPAVKNMYS AKSGLKGVQSLLMYKDGSVLQRGGS

LRAPALPSRSDRLQQRLPITQHFQGNRPLRPSRRRQLEEGTSEPPGAGTPPLSPEDEGCP  
WAEALDSSFLGSGEELDLLSEILDSLSMGAKSAGSLRPSQSLDCCHRGDLDSFSLPNI  
PRWQPDDKKLPEPEPQPLSLPSLQNASLSDATSSSKDSRSQSLIPSESDQEVTSPTSQSSA  
SADPSIWGDPKPSPLTEPLILHLTPSHKAAEDSTAQENPTWLSAPTEPSPPEPQILA  
PTKPNFDIAWTSQPLDPSSDPSSLEDPRARPPKALLAERAHLQPREEPGALNSPATPTSN  
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>sp|Q68D51|DEN2C\_HUMAN DENN domain-containing protein 2C OS=Homo sapiens GN=DENND2C PE=1  
SV=2

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NPFAERKSKNLDVTSRENVGLDINENTKSHDQSEENENKHEYDDTHFFKNESESNWCSR  
VKEIESCKEDVLDPEVTSPPGNYFYSQILWKKIEALPPDKLLNLALEHCDSSSEKELNFRV  
LDSSYGITKSLNIYSEPEGQECGPSINPLPKPRRTFRYLSSEGVTPYKERNCDKKYCEN  
NSCAQSSSLASSQEPEPKKYGGKIRGRSKRKSFEFEDIQHFRNRNSQTIREEGRNSGSAL  
YYTQSEDNIYEDIIYPTKENPYEDIPVQPLPMWRSPSAWLPPAKSAFKAPKLPPKPQFL  
HRKTMEVKNSQAYLRSLTKDITLPTVTLTEWKLFRAGEVANTKRKNLPRLVLKIDDIFES  
KRGKKVKLHSYTGKELPPTKGETSGNESDAEYLPKNRHKRLAQLQPSKRNPHYQTLER  
DLIELQEQQFLFELVVVSLQKKPSGYSYIPQVIQQFPGKDDHGYKQSKDMEERLKVIPKF  
CFPDSKDWMPVSELKSETFSFVLTGEDGSRWFGYCKKLLPVGKGKRLPEVYCMVSRLGCF  
NLFSKILDEVEKRREMPALVYPFMRVMEAPFPAPGRITITVKSYPGAGDESIELCRPL  
DSRLEHVDKCLFKCLSVCHLIRVCASLLERRVIFVANSSTLSKCGHVVATLYPFTW  
QHTYIPVLPASMDIVCSPTPFLIGILSCSLPQLQDLPIEEVLIVDLCADKFLQEVSDED  
EILPPKLQAALMQILEERNEILTQEQNFSQDVTLSLSEAFVRRFFVELVGHYSLNMTVT  
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>sp|Q6IQ26|DEN5A\_HUMAN DENN domain-containing protein 5A OS=Homo sapiens GN=DENND5A PE=1  
SV=2

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GENFEQTPLRRTFKSKVLARYPENVEWNPFDQDAVGMLCMPKGLAFKTQADPREPQFHAF  
IITREDGSRTFGFALTFYEEVTSKQICSAMQTLYHMHNAEYDVLHAPPADDRDQSSMEDG  
EDTPVTKLQRFNSYDISRDTLYVSKICLITPMSFMKACRSVLEQLHQAVTSPQPPPLPL  
ESYIYNVLYEVPLPPPGRSKLFSGVYGPIICQRPSTNELPLDFPVEVFEELGVENVFQ  
LFTCALLEFQILLYSQHYQLMTVAETITALMFPFQWQHVVYVILPASLLHFLDAPVPYL  
MGLHSNGLDDRSKLELPQEANLCFVDIDNHFIELPEDLPQFPNKLEFVQEVSEILMAFGI  
PPEGNLHCSESASKLRRLASELVSDKRNGNIAGSPLHSYELLKENETIARLQALVKRTG  
VSLEKLEVREDPSSNKDLKVQCDEEELRIYQLNIQIREVFANRFTQMFADYEVFVIQPSQ  
DKESWFTNREQMQNFDKASFLSDQPEPYLPFLSRFLETQMFASFIDNKIMCHDDDDKDPV  
LRVFSRVDKIRLLNVRTPTLRTSMYQKCTTVDEAEKAIELRLAKIDHTAIHPHLLDMKI  
GQGYEPGFFPKLQSDVLSTGPASNKWTNRNAPAQWRRKDRQKQHTHELRDNDQREKYI  
QEARTMGSTIRPKLSNLSPSVIAQTNWKFEVGLLKECRNKTMRMLVEKMGREAVELGHG  
EVNITGVEENTLIASLCLLERIWSHGLQVKQKKSALWSHLLHYQDNRQRKLTSGSLSTS  
GILLDSERRKSDASSLMPLRISLIQDMRHIQNIQIKTDVGKARAWVRLSMEKKLSRH  
LKQLSDHELTKKLYKRYAFLRCDDKEQFLYHLLSFNAVDFCFNTNVFTTILIPYHILI  
VPSKKLGSMFTANPWICISGELGETQIMQIPRNVLEMTFECQNLGKLTTVQIGHDNSGL  
YAKWLVEYVMVRNEITGHTYKFPGRWLKGKMDGSLERILVGELLTSQPEVDERPCRTP

PLQQSPSVIRRLVTISPNNPKPLNTGQIQESIGEAVNGIVKHFHKPEKERGSLTLLLCGE  
CGLVSALEQAFQHGFKSPRLFKNVFIWDFLEKAQTYETLEKNEVVPEENWHTRARNFCR  
FVTAINNTPRNIGDKGFKQMLVCLGARDHLLHHWIALADCPITAHMYEDVALIKDHTLV  
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>sp|Q6ZUT9|DEN5B\_HUMAN DENN domain-containing protein 5B OS=Homo sapiens GN=DENND5B PE=1  
SV=2

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EEVTSKQICTAMQTLYQMHNAEHYSSVYASSSCSMDSLASSLDEGDTTSLKLQRYNSYD  
ISRDTLYVSKSICLITPLPFMQACKKFLIQLYKAVTSQQPPPLPLESYIHNILYEVPLPP  
PGRSLKFYGVYEPVICRPGPSELPLSDYPLREAFELLGLENLVQVFTCVLLEMQILLYS  
QDYQRLMTVAEGITITLLFPFQWQHVVYPILPASLLHFLDAPVPYLMGLQSKEGTDRSKLE  
LPQEANLCFVDIDNHFIELPEEFPPQPNKVDFIQELSEVLVQFGIPPEGSLHCSESTSKL  
KNMVLKDLVNDKKNNGNVCTNNISMYELLKGNETIARLQALAKRTGVAVEKMDLSASLGEK  
DKDLKLHCEEAEALRDYQLNVQLREVFANRFTQMFADYEAFFVIQTAQDMESWLTNREQMQN  
FDKASFLSDQPEPYLPFLSRFIETQMFATFIDNKIMSQWEEKDLLRVFDTRIDKIRLYN  
VRAPTLRTSIYQKCSLKEAAQSIEQRLMKMDHTAIHPHLLDMKIGQGKYEQGFPPKLQS  
DVLATGPTSNNRWVSRSAQAQRKERLRQHSEHVGLDNDLREKYMQEARSLGKNLRQPKL  
SDLSPAVIAQTNCKFVEGLLKECRMKTKRMLVEKMGHEAVELGHGEANITGLEENTLIAS  
LCDLLERIWSHGLQVKQGSALWSHLIQFQDREEKQEHLESPVALGPERRKSDSGVMLP  
TLRVSLIQDMRHIQNMSEIKTDVGRARAWIRLSLEKKLLSQHLKQLLSNQPLTKKLYKRY  
AFLRCEEEEREQFLYHLLSLNAVDFCFTSVFTTIMIPYRSVPIPIKKLSNAIITSNPWIC  
VSGELGDTGVMQIPKNLLEMTFECQNLGKLTTVQIGHDNSGLLAKWLDCVMVRNEITGH  
TYRFPCGRWLKGIDGSLERILIGELMTSASDEDLVKQCRTPPQQKSPTTARRLSITSL  
TGKNNKPNAGQIQEGIGEAVNNIVKHFHKPEKERGSLTVLLCGENGLVAALEQVFHHGFK  
SARIFHKNVFIWDFIEKVVAFFETDQILDNEDDVLIQKSSCKTFCHYVNAINTAPRNIG  
KDGKFQILVCLGTRDRLLPQWIPLLAECPAITRMYEESALLRDRMTVNSLIRILQTIQDF  
TIVLEGLIKGVDV

>sp|A2RUS2|DEND3\_HUMAN DENN domain-containing protein 3 OS=Homo sapiens GN=DENND3 PE=1  
SV=2

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CVHFLVLTDVCGNRTYGVVAQYYRPLHDEYCFYNGKTHRECPGCFVPFAVCVVSFRFPYYN  
SLKDCLSCLLALLKPCCKDFEVDHIKDFAAKLSLIPSPPPGPLHLVFNMKSLQIVL PARA  
DPESPILDLHLPLLCFRPEKVLQILTCILTEQRIVFFSSDWALLTLVTECFMAYLYPL  
QWQHHPFVPI LSDQMLDFVMAPTSFLMGCHLDHFEEVSKEADGLVINIDHGSITYSKSTD  
DNVDIPDVPLLAQTFIQRVQSLQLHHELHAAHLLSSTDLEGRAHRRSWQKLNCCIQQ  
TTLQLLVSI FRDVKNHLYEHRVFNSEEFKTRAPGDHQFYKQVLDTYMFHSFLKARLNR  
RMDAFAQMDLDTQSEEDRINGMLSPRRPTVEKRASRSSHVTHRRMVVSMPNLQDIA  
MPELAPRNSSLRLTDAGCRGSSAVLNVTSPKSPYTFKIPEIHFPLESKCVQAYHAHFVSM  
LSEAMCFAPDNSLLARYLYLRGLVYLMQGQLLNALLDFQNLKYTDIRIFPTDLVKRTV  
ESMSAPEWEGAEQAPELMRLISEILDKPHEASKLDDHVKKFKLPKKHMQLGDFMKRVQES  
GIVKDASI IHRLEALTGVGEKQIDPETFKDFYNCWKETEAEAEVSLPWLVMHLDKNE  
CVCKLSSSVKTNLGVGKIAMTQKRLFLLTEGRPGYLEISTFRNIEEVRRTTTTFLRRIP  
TLKIRVASKKEVFENLKTCDLWHLMVKEMWAGKKLADDDHKDPHYVQQALTNVLLMDAV

VGTLQSPGAIYAASKLSYFDKMSNEMPTLPETTLETCLKHKINPSAGEAFPQAVDVLLYT  
PGHLDPAEKVEDAHPKLWCALSEGKVTVFNASSWTIHQHSFKVGTAKVNCMVMAHQNVW  
VGSEDSVIYIINVHSMSCNKQLTAHCSSVTDLIVQDGGQEAQSNVYSCSMGMVLVWNVST  
LQVTSRFQLPRGGLTSIRLHGGRLWCCTGNSIMVMKMNGSLHQLKIEENFKDTSTSFLA  
FQLLPREEQLWAACAGRSEVYIWSLKDLAQPPQRPVLEDCSEINCMIRVKKQVWVGSRL  
GQGTPKGKIYVIDAERKTVEKELVAHMDTVRTLCSAEDRYVLSGSGREEGKVAIWKGE

>sp|000399|DCTN6\_HUMAN Dynactin subunit 6 OS=Homo sapiens GN=DCTN6 PE=1 SV=1

MAEKTQKSVKIAPGAVVCVESEIRGDVTIGPRTVIHPKARIIEAGPIVIGEGNLEEQA  
LIINAYPDNITPDTEDEPKPMIIGTNNVFEVGCYSQAMKMGDNNVIESKAYVGRNVILT  
SGCIIGACCNLTFEVIPENTVIYGADCLRRVQTERPQPQTLQLDFLMKILPNYHHLKKT  
MKGSSTPVKN

>sp|Q8IY21|DDX60\_HUMAN Probable ATP-dependent RNA helicase DDX60 OS=Homo sapiens GN=DDX60  
PE=1 SV=3

MERNVLTTFSQEMSQLILNEMPKAEYSSLFNDFVESEFFLIDGDSLLITCICEISFKPGQ  
NLHFFYLVERYLDLISKGGQFTIVFFKDAEYAYFNFPELLSLRTALILHLQKNTTIDVR  
TTFSRCLSKEWGSFLEESYPYFLIVADEGLNDLQTQLFNFLIIHSHWARKVNVVLSSGQES  
DVLCLYAYLLPSMYRHQIFSWKNKQNIKDAYTTLLNQLERFKLSALAPLFGSLKWNITE  
EAHKTVSLLTQVWPEGSDIRRVFCVTSCSLSLRMYHRFLGNREPSSGQETEIQQVNSNCL  
TLQEMEDLCKLHCLTVVFLHLPLSQRACARVITSHWAEDMKPLLQMKKWCEYFILRNII  
TFEFWNLNLIHLSDLNDELLKNIAFYENENVKGLHLNLGDTIMKDYEYLWNTVSKLVR  
DFEVGQPFPLRTTKVCFLEKKPSPIKDSSNEMVNLGFIPTSSFVVDKFAGDILKDLPLFL  
KSDDPIVTSLVKQKEFDELVHWHSHKPLSDDYDRSRCQFDEKSRDPRVLRVSVQKYHVFQR  
FYGNSLETVSSKIIVTQTIKSKKDFSGPKSKKAHETKAEIIARENKKRLFAREEQKEEQK  
WNALSFSIEEQLKENLHSGIKSLEDFLKSCKSSCVKLQVEMVGLTACLKAWKEHCRSEEG  
KTKDLSIAVQVMKRIHSLMEKYSSELLQEDDRQLIARCLKYLGFDLASSLHPAQDAEND  
VKVKKRNKYSVGIGPARFQLQYMGHYLIRDERKDPDPRVQDFIPDTWQRELLDVVDKNES  
AVIVAPTSSGKTYASYCMEKVLKESDDGVVVYVAPTKALVNQVAATVQNRFTKNLPSGE  
VLCGVFTREYRHDALNCQVLITVPACFEILLAPHRQNWVKIRYVIFDEVHCLGGEIGA  
EIWEHLLVMIRCPFLALSATISNPEHLTEWLQSVKQYWKQEDKIIENNTASKRHVGRQAG  
FPKDYLQVKQSYKVRVLVYGERYNDLEKHVCSIKHGDIFDHFHPCAALTTDHIERYGFP  
PDLTLPRESIQLYDAMFQIWKSWPRAQELCPENFIHFNKLVIKKMDARKYEESLKAEL  
TSWIKNGNVEQARMVLQNLSPADLSPENMITMFPLLVEKLRKMEKLPALFFLFKLGA  
VNAESVSTFLKKQETKRPPKADKEAHVMANKLRKVKSIEKQKIIDEKSQKKTRNVDQS  
LIEAEHDNLVKCLEKNLEIPQDCTYADQKAVDTETLQKVFGRVKFERKGEELKALAERG  
IGYHHSAMSFKEKQLVEILFRKGYLRVVTATGTLALGVNMPCKSVVFAQNSVYLDALNYR  
QMSGRAGRRGQDLMGDVYFFDIPFPKIGKLKSNVPELRGHFPLSITLVLRLMLLASKGD  
DPEDAKAKVLSVLKHSLLSFKQPRVMDMLKLYFLFSLQFLVKEGYLDQEGNPMGFAGLVS  
HLHYHEPSNLVFSFLVNLGFHDLCPTRKGSKHFSQDVMEKLVVLVLAHLFGRRYFPPKF  
QDAHFIFYQSKVFLDDLPEDFSDALDEYNMKIMEDFTTFLRIVSKLADMNQEYQLPLSKI  
KFTGKECEDSQLVSHLMSCKEGRVAISPFCVCLSGNFDDDLRLLETPNHVTLGTIGVNRSQ  
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>sp|P26196|DDX6\_HUMAN Probable ATP-dependent RNA helicase DDX6 OS=Homo sapiens GN=DDX6  
PE=1 SV=2



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PIQESIPIALSGRDILARAKNGTGKSGAYLIPLLERLDLKKDNIQAMVIVPTRELALQV  
SQICIQVSKHMGGAQMATTGGTNLRDDIMRLDDTVHVVIATPGRILDLIKKGVAKVDHV  
QMIVLDEADKLLSQDFVQIMEDIILTLPKNRQILLYSATFPLSVQKFMNSHLQKPYEINL  
MEELTLKGVTYYYAVYTERQKVHCLNTLFSRLQINQSIIFCNSSQRVELLAKKISQLGYS  
CFYIHAKMRQEHRNRVHDFRNLGCRNLVCTDLFTRGIDIQAVNVVINFDFPKLAETYLH  
RIGRSGRFGHLGLAINLITYDDRFNLKSIEEQLGTEIKPIPSNIDKSLYVAEYHSEPVED  
EKP

>sp|076075|DFFB\_HUMAN DNA fragmentation factor subunit beta OS=Homo sapiens GN=DFFB PE=1  
SV=1

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PSVPDNAELVLLTLGQAWQGYVSDIRRFLSAFHEPQVGLIQAQQLLCDEQAPQRQRLA  
DLLHNVSQNIAAETRAEDPPWFEGLESRFQSKSGYLRYSCESRIRSYLREVSSYPSTVGA  
EAQEEFLRVLGSQCRLRSMQYNGSYFDRGAKGGSRLCTPEGWFSCQGPFDMSCLSRHS  
INPYSNRESRILFSTWNLDHIIIEKRTIIPITLVEAIKEQDGREVDWEYFYGLLFTSENK  
LVHIVCHKKTTHKLCNCDPSRIYKQTRLKRKQPVRRKQ

>sp|P49619|DGKG\_HUMAN Diacylglycerol kinase gamma OS=Homo sapiens GN=DGKG PE=2 SV=3

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AYLEVLDLPQPLSTHLFLAFSQKPRHETSDHPTGASNSEANSADTNIQNADNATKADEAC  
APDTESNMAEKQAPAEDQVAATPLEPPVPRSSSESPPVYLKDVVCYLSLLETGRPQDKL  
EFMFRLYDSDENGLLDQAEMDCIVNQLHIAQYLEWDPTELRPILKEMLQGM DYDRDGFV  
SLQEWVHGGMTTIPLLVLLGMDDSGSKGDGRHAWTMKHFKKPTYCNFCHIMLMGVRKQGL  
CCTYCKYTVHERCVSRNIPGCVKTYSAKRSGEVMQHAWVEGNSSVKCDRCHKSIKCYQS  
VTARHCVWCRMTFHRKCELSTLCDGGELRDHILLPTSICPITRDRPGEKSDGCVSAKGEL  
VMQYKIIPTPGTHPLLVLVNPKSGGRQGERILRKFHLLNPKQVFNLNNGGPTPGLNFFR  
DTPDFRVLACGGDGTGVWILDCIDKANFAKHPPVAVLPLGTGNDLARCLRWGGGYEGGSL  
TKILKDIEQSPLVMLDRWHLEVIPREEVENDQVPYSIMNNYFSIGVDASIAHRFHVRE  
KHPEKFNSRMKNLWYFEFGTSETFAATCKKLHDHIELECDGVGVDLSNIFLEGIAILNI  
PSMYGGTNLWGENKKNRAVIRESRKGVTDPKELKFCVQDLSQDQLEVVGLEGAMEMGQIY  
TGLKSAGRRLAQCASVTIRTNKLLPMQVDGEPWMQPCCTIKITHKNQAPMMMGPPQKSSF  
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>sp|Q5KSL6|DGKK\_HUMAN Diacylglycerol kinase kappa OS=Homo sapiens GN=DGKK PE=1 SV=1

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SAPEPTPEPALESVPEPAPELTPEVAPELAPEPTPEPVTELAPEFCPEAAPEFRPSPAPC  
LLQCPVDTRERGLKTSPPSPSPSPRTPMSWSRIKKILKEGPMLKNCNSFKRWKLRVFLV  
QGQKLYFAHHPAFAHFETIDLSQATVAESSCRNLCHSFCVITPQRKITLAAPNRKDMEEW  
INI IKTIQGEIYKIPAAENNPFLVGMHCWYSSYSHRTQHCNVCRESIPALSRDAIICEV  
CKVKSHRLCALRASKDCKWNTLSITDLLLLPADEVNMPHQWVEGNMPVSSQCAVCHESCG  
SYQRLQDFRCLWCNSTVHDDCRRRFSKECCFRSHRSSVIPPTALSDPKGDGQLVVSSDFW  
NLDWSSACSCPLLIFINSKSGDHQGI VFLRKFKYQLNPSQVFDLLKGGPEAGLSMFKNFA  
RFRILVCGGDSVSWVLSLIDAFGLHEKCQLAVIPLGTGNDLARVLGWGAFWNKSKSPLD  
ILNRVEQASVRILDRWSVMIRETPRQTPLLKGQVEMDVPRFEAAAIQHLESAATELNKIL

KAKYPTEMI IATRFLCSAVEDFVVDIVKAWGQIKQNNTAIVSVILKS DLMYDRLSVLIDV  
LAEEAAATSAEKSATEYADSSKADRKPFI PQIDHIAKCKLELATKAQSLQKSLKLIIFQV  
EQALDEESRQTISVKNFSSTFFLEDDPEDINQTSRRRSRRGTLSSISLKS EDLDNLNL  
DHLHFTPESIRFKEKCMNNYFGIGLDAKISLDFNTRRDEHPGQYNSRLKNKMWYG L LGT  
KELLQRSYRKLEERVHLECDGETISLPNLQGIVVLNITSYAGGINFWGSNTATTEYEAPA  
IDDGKLEVVAIFGVSQMAMSRIINLHHHRIAQCHEVMITIDGEEGIPVQVDGEAWIQRPG  
LIKIRYKNAAQMLTRDRDFENSMKMWEYKHTEIQAAPQPQLDFQDSQESLSDEEY AQMQH  
LARLAENLISKLNLSKIHQHSVLMGSVNASANILNDIFYGQDSGNEMGAASCIPIETL  
SRNDAVDVTFSLKGLYDDTTAFLDEKLLRSAEDETALQSALDAMNKEFKKLSEIDWMNPI  
FVPEEKSSDTSRSLRLKIKF PKLGKKKVEEERKPKSGQSVQSFIGNLWHRRHREDEAEG  
DDPLTPSRSQL

>sp|Q15392|DHC24\_HUMAN Delta(24)-sterol reductase OS=Homo sapiens GN=DHCR24 PE=1 SV=2

MEPAVSLAVCALLFLLWVRLKGLEFVLIHQRWVVFCLFLLPLSLIFDIYYYVRAWVVKL  
SSAPRLHEQVRDIIQKVREWKEQGSKTFMCTGRPGWLT VSLRVGKYKKTHKNIMINLMD  
ILEVDTKKQIVRVEPLVTMGQVTALLTSIGWTL PVLPELDDLTVGGLIMGTGIESSHKY  
GLFQHICTAYELVLADGSFVRCTPSENSDLFYAVPWSCGT LGFLVAAEIRIIPAKKYVKL  
RFEPVRGLEAICAKFTHESQRQENHFVEGLLYSLDEAVIMTGVMTDEAEPSKLSIGNYY  
KPWFFKHVENYLKTNREGLEYIPLRHYYHRHTRSIFWELQDIIPFGNNPIFRYLF GWMVP  
PKISLLKLTQGETLRKLYEQHHVVQDMLVPMKCLQQALHTFQNDIHVYPIWLCPFILPSQ  
PGLVHPKGNEAELYIDIGAYGEPRVKHFEARSCMRQLEKFVRSVHGFQMLYADCYM NREE  
FWEMFDGSLYHKLREKLGCDAPFEVYDKICKAARH

>sp|P80365|DHI2\_HUMAN Corticosteroid 11-beta-dehydrogenase isozyme 2 OS=Homo sapiens  
GN=HSD11B2 PE=1 SV=2

MERWPWPSSGAWLLVAARALLQLLRSDRLRGRPLLAALALLAALDWLCQRLLPPPAALAV  
LAAAGWIALSRLARPQRLPVATRAVLITGCDSGFGKETAKKLD SMGFTVLATVLELNSPG  
AIELRTCCSPRLRLQMDLTKPGDISRVLEFTKAHTTSTGLWGLVNNAGHNEVVADAELS  
PVATFRSCMEVNFFGALELTKGLPLLRSSRGRIVTVGSPAGDMPYPCLGAYGTSKAAVA  
LLMDTFSCCELLPWGVKVSIIQPGCFKTESVRNVGQWEK RKQLLLANLPQELLQAYGKDYI  
EHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYYPGQGLGLMYFIHYLPEGLRR  
RFLQAFFISHCLPRALQPGQPGTTPPQDAAQDPNLSPGPSPAVAR

>sp|Q7Z478|DHX29\_HUMAN ATP-dependent RNA helicase DHX29 OS=Homo sapiens GN=DHX29 PE=1  
SV=2

MGGKNKKHKAPAAAVVRAAVSASRAKSAEAGIAGEAQSKKPVS RPATAAAAAAGSREPRV  
KQGPKIYSFNSTNDSSGPANL DKSILKVVINNKLEQRIIGVIN EHKKQNDKGMISGRLT  
AKKLQDLYMALQAFSFKTKDIEDAMTNTLLYGGDLHSALDWLCLNLSDDALPEGFSQEFE  
EQQPKSRPKFQSPQIQATISPLQPKTKTYEEDPKSKPKKEEKNMEVNMKEWILRYAEQQ  
NEEEKNENSKSLEEEKFDPNERYLHLAAKLLDAKEQAATFKLEKNKQGQKEAQEKIRKF  
QREMETLEDHPVFNPA MKISHQQNERKKPPVATEGESALN FNLFKSAAATEEEKDKKKE  
PHDVRNFDYTARSWTGKSPKQFLIDWVRKNLPKSPNPSFEKV PVGRYWKCRVRVIKSEDD  
VLVVCPTILTEDGMQAHLGATLALYRLVKGQSVHQLLPPTYRDVWLEWSDAEKKREELN  
KMETNKPRDLFIAKLLNKLKQQQQQQQHSE NKRENS EDP EESWENLVSD EDFSALSLES  
ANVEDLEPVRNLFRKLQSTPKYQKLLKERQQLPVFKHRDSIVETLKRHRV VVAGETGSG  
KSTQVPHFLEDLLLNEWEASKNIVCTQPRRISAVSLANRVCELG CENGPGRNSLCG  
YQIRMESRACESTRLLYCTTGVLRLKLQEDGLLSNVSHVIVDEVHERSVQSD FLLIILKE

ILQKRSDLHLILMSATVDSEKFSTYFTHCPILRISGRSYPVEVFHLEDII EETGFVLEKD  
SEY CQKFLEEEEEVTINVT SKAGGIKKYQEYIPVQTGAHADLNPFYQKYSSRTQHAILYM  
NPHKINLDLILELLAYLDKSPQFRNIEGAVLIFLPGLAHIQQLYDLLSNDRRFYSEYK  
IALHSILSTQDQAAAF TLPPP GVRKIVLATNIAETGITIPDVVFVIDTGR TKENKYHESS  
QMSSLVET FVSKASALQRQGRAGRVRDGF CFRMYTRERFEGFMDYSVPEILRVPLEELCL  
HIMKCNLGSPEDFLSKALDPPQLQVISNAMNLLRKIGACELNEPKLTPLGQH LAALPVNV  
KIGKMLIFGAIFGCLDPVATLAAMTEKSPFTTPIGRKDEADLAKSALAMADSDHLTIYN  
AYLGWKKARQEGGYRSEITYCRRNFLNRTSLLTLEDVKQELIKLVKAAGFSSSTTSWE  
GNRASQTL SFQEIALLKAVLVAGLYDNVGKIIYTKSVDVTEKLACIVETAQGAQVHPSS  
VNRDLQTHGWLLYQEKIRYARVYLRETTLITPFPVLLFGGDIEVQHRERLLSIDGWIYFQ  
APVKIAVIFKQLRVLIDSVLRRKKLENPKMSLENDKILQIITELIKTENN

>sp|Q7L2E3|DHX30\_HUMAN Putative ATP-dependent RNA helicase DHX30 OS=Homo sapiens GN=DHX30  
PE=1 SV=1

MFSLDSFRKDRAQHRQRQCKLPPRLPPMCVNPTPGGTISRASRDLLKEFPQPKNLLNSV  
IGRALGISHAKDKLVYVHTNGPKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQL  
FKGWGLLGPRNELFDA AKYRVLADRF GSPADSWWRPEPTMPPTSWRQLNPESIRPGGPGG  
LSRSLGEEEEEEEEEELEGTIDVTDFLSMTQQD SHAPLRDSRGSSFEMTDDDSAIRALT  
QFPLPKNLLAKVIQIATSSSTAKNLMQFHTVGT KTKLSTLTLLWPCPMTFVAKGRRKAEA  
ENKAAALACKKLKSLGLVDRNNEPLTHAMYNLASLRELGETQRRPCTIQVPEPILRKIET  
FLNHYPVESSWIAPELR LQSDDILPLGKDSGPLSDPITGKPYVPLLEAEVRLS QSLEL  
WRRRGPVWQEAPQLPVDPHRDTILNAIEQHPVVVISGDTGCGKTTRIPQLLLERYVTEGR  
GARC NVIITQPRRISAVSVAQRVSHELGPSLRRNVGFQVRLESKPPSRGGALLFCTVGIL  
LRKLQSNPSLEGVSHVIVDEVHERDVNTDFLLILLKGLQRLNPALRLVLMSATGDNERFS  
RYFGGCPVIKVPGFMYPVKEHYLEDILAKLGKHQYLHRHRHHESEDECALDLDLVDLVL  
HIDARGEPPGILCFLPGWQEIKG VQQRLQEALGMHESKYLILPVHSNIPMMDQKAIFQQP  
PVGVRKIVLATNIAETSITINDIVHVDSGLHKEERYDLKTKVSCLETWVWSRANVIQRR  
GRAGRCQSGFAYHLFPRSRLEKMVPFQVPEILRTPLENLVLQAKIHMPEKTAVEFLSKAV  
DSPNIKAVDEAVILLQEIGVLDQREYLTTLGQRLAHISTDPR LAKAIVLAAIFRCLHPLL  
VVV SCLTRDPFSSSLQNRAEVDKVKALLSHDSGSDHLAFVRAVAGWEEVLRWQDRSSREN  
YLEENLLYAPSLRFIHGLIKQFSENIYEAF LVGKPSDCTLASAQ CNEYSEEEELVKGVLM  
AGLYPNLIQVRQGVTRQGKFKPNSVTYRTKSGNILLHKSTINREATRLRSRWLT YFMAV  
KSNGSVFVRDSSQVHPLAVLLLTDGDVHIRDDGRRATISLSDSLLRLEGDSRTVRLLKE  
LRRALGRMVERSLRSELAALPPSVQEEHGQLLALLAELLRGPCGSFDVRKTADD

>sp|Q9H6R0|DHX33\_HUMAN Putative ATP-dependent RNA helicase DHX33 OS=Homo sapiens GN=DHX33  
PE=1 SV=2

MPEEAGFPFAKFRPGSGPPSRAGSFPPGRQVVMLLTAGSGGRGGGGRRQQPPLAQPSA  
SPYPEAVELQRRSLP IFQARGQLLAQLRNLDNAVLIGETGSGKTTQIPQYLYEGGISRQG  
IIAVTQPRRVA AISLATRV SDEKRT ELGKLVGYTVRFDDVTS EDTRIKFLT DGMLLREAI  
SDSLLRKYSCVILDEAHERTIHTDVLFGVVKAAQKRRKELGKLPLKVI VMSATMDVDLFS  
QYFNGAPVLYLEGRQHP IQVFYTKQPQNDYLHAALVS VFQIHQEAPSSQDILVFLT GQEE  
TEAMSKTCRDI AKHLPDGC PAMLVLPYASLPYAQQLRV FQGAPKGYRKVIISTNIAETS  
ITITGIKYVVDTGMVKAKKYNPD SGLEVLAVQ RVSKTQAWQRTGRAGREDSGICYRLYTE  
DEF EKFDKMTVPEIQRCNLASVMLQLLAMKVPNVLTDFDMSKSPDHIQAAIAQLDLLGA  
LEHKDDQLTLTPMGRKMAAFPLEPKFAKTI LMSPKFHCTEEILTIVSLLSVDSVLHNPPS

RREEVQGVRRKKFISSEGDHMTLLNIYRTFKNLGGNKDWCKENFVNSKNMTLVAEVRAQLR  
DICLKSMPIASSRGDVESVRRCLAHSLFMSTAELQPDGTYATTDTHTQPVAIHPSSVLFH  
CKPACVVYTELLYTNKCYMRDLCVIDAQWLYEAAPEYFRRKLRTARN

>sp|Q8IX18|DHX40\_HUMAN Probable ATP-dependent RNA helicase DHX40 OS=Homo sapiens GN=DHX40  
PE=1 SV=2

MSRFPVAGRAPRRQEEGERSRDLQEERLSAVCIADREEKGCTSQEGGTPTTFPIQKQRK  
KIIQAVRDNFLIVTGTGSGKTTQLPKYLEAGFSQHGMIGVTQPRKVAASVAQRVAE  
EMKCTLGSKVGYQVRFDCCSSKETAIKYMTDGCLLKHIILGDPNLTKFSVILDEAHERTL  
TTDILFGLLKKLFQEKSPNRKEHLKVVVMSATMELAKLSAFFGNCPIFDIPGRLYPVREK  
FCNLIGPRDRENTAYIQAIVKVTMDIHLNEMAGDILVFLTGGFEIEKSCELLFQMAESVD  
YDYDVQDITLDGLLILPCYGSMTDQRRIFLPPPPGIRKCVISTNISATSLTIDGIRYV  
VDGGFVKQLNHNPRGLDILEVVPISKSEALQRSGRAGRTSSGKCFRIYSKDFWNQMPD  
HVIPEIKRTSLTSVVLTLKCLAIHDVIRFPYLDPPNERLILEALKQLYQCDAIDRSGHVT  
RLGLSMVEFPLPHLTCAVIKAASLDCEDLLPIAAMLSVENVFIRPVDPEYQKEAEQRH  
RELAAGAGGFNDLAVIFEQCKSSGAPASWCQKHWIHWRLCSAFRVEAQLRELIRKL  
KQQSDFPKETFEGPKHEVLRRCLCAGYFKNVARRSVGRFTCTMDGRGSPVHIHPSSALHE  
QETKLEWIIFHEVLVTTKVIYARIVCPIRYEVRDILLPKLHEFNAHDLSSVARREVREDAR  
RRWTNKENVKQLKDGISKDVLKKMQRNDDKSIDARARFLERKQRTQDHSCTRKETG

>sp|Q6P158|DHX57\_HUMAN Putative ATP-dependent RNA helicase DHX57 OS=Homo sapiens GN=DHX57  
PE=1 SV=2

MSSSVRRKGKPGKGGGKGSSRGGGRGRSHASKSHSGSGGGGGGGGGGGGNRKASSRIWDD  
GDDFCIFSESRRPSRPSNSNISKESRPKWPKAKVPLQTLHMTSENQEKVKALLRDLQE  
QDADAGSERGLSGEEEDDEPDCCNDERYWPAGQEPSLVPDLDPLEYAGLASVEPYVPEFT  
VSPFAVQKLSRYGFNTERCQAVLRMCDGDVGASLEHLLTQCFSETFGERMKISEAVNQIS  
LDECMERQEEAFALKSICGEKFIERIQRNVWTIGLELEYLTSRFRKSKPKESTKNVQEN  
SLEICKFYLGKNCFGSKCRFKHEVPPNQIVGRIERSVDDSHLNAIEDASFLYELEIRFS  
KDHKYPYQAPLVAFYSTNENLPLACRLHISEFLYDKALTAETSEPVVYSLITLLEESE  
IVKLLTNTHHKYSDPPVNFPLPVSRTTRINNPACHKTVIPNNSFVSNQIPEVEKASESES  
DEDDGPAPVIVENESYVNLKKKISKRYDWQAKSVHAENGKICKQFRMKQASRQFQSILQE  
RQSLPAWEERETILNLLRKHQVVVISGMTGCGKTTQIPQFILDDSLNGPPEKVANIICTQ  
PRRISAISSAERVAKERAERVGLTVGYQIRLESVKSSATRLLYCTTGVLRRLEGDTALQ  
GVSHIIVDEVHERTEESDFLLVLKDIVSQRPLQVILMSATLNAELFSDYFNSCPVITI  
PGRTFPVDQFFLEDAIAVTRYVLQDQSPYMRSMKQISKEKLKARRNRTAFEEVEEDLRLS  
LHLQDQDSVKDAVPDQQLDFKQLLARYKGVSKSVIKTMSIMDFEKNLELIEALLEWIVD  
GKHSYPPGAILVFLPLGLAEIKMLYEQLQSNLSFNRRSNRCVHPLHSSLSSEEQAVFV  
KPPAGVTKIIISTNIAETSITIDDVVYVIDSGMKMEKRYDASKGMESLEDTFVSQANALQ  
RKGRAGRVASGVCFLHTSSHYNHQLLKQQLPEIQRVPLEQLCLRIKILEMFAHNLSV  
FSRLIEPPHTDSLRAKIRLRDLGALTPDERLTPLGYHLASLPVDVRIGKLMFLGSIFRC  
LDPALTIASLAFKSPFVSPWDKKEANQKKLEFAFANS DY LALLQAYKGWQLSTKEGVR  
ASYNYCRQNFLSGRVLQEMASLKRQFTELLSDIGFAREGLRAREIEKRAQGGDGVLDATG  
EEANSNAENPKLISAMLCALYPNVVQVKSPEGKFQKTSTGAVRMQPKSAELKFVTKNDG  
YVHIHPSSVNYQVRHFDSPYLLYHEKIKTSRVFIRDCSMVSVYPLVLFGGGQVNVQLQRG  
EFVVSLLDGGWIRFVAASHQVAELVKELRCELDQLLDQKIKNPSIDLCTCPRGSRIISTIV  
KLVTQ

>sp|Q08211|DHX9\_HUMAN ATP-dependent RNA helicase A OS=Homo sapiens GN=DHX9 PE=1 SV=4  
MGDVKNFLYAWCGKRKMTPSYEIRAVGNKNRQKFMCEVQVEGYNYTGMGNSTNKKDAQSN  
AARDFVNYLVRLINEIKSEEVPAFGVASPPPLTDPDTTANAEGDLPTTMGGPLPPHLALK  
AENNSEVGASGYGVPPTWDRGANLKDYYSRKEEQEVQATLESEEVDLNAGLHGNWTLEN  
AKARLNQYFQKEKIQGEYKYTVQVGDHNRSFIAEMTIYIKQLGRRIFAREHGSNKKLAAQ  
SCALSLVRQLYHLGVVEAYSGLTKKKEGETVEPYKVNLSQDLEHQLQNI IQELNLEILPP  
PEDPSVPVALNIGKLAQFEPSSQRQNVGVVPWSPQSNWNPWTSSNIDEGPLAFATPEQI  
SMDLKNELMYQLEQDHLQAILQERELLPVKKFESEILEAISQNSVVIIRGATGCGKTTQ  
VPQFILDFFIQNDRAAECNIVVTQPRRISAVSVAERVAFERGEEPGKSCGYSVRFESILP  
RPHASIMFCTVGVLRLKLEAGIRGISHVIVDEIHERDINTDFLLVLRDVVQAYPEVRIV  
LMSATIDTSMFCEYFNCPIIEVYGRTPVQYEFLEDCIQMTHFVPPPKDKKKKDKDDDG  
GEDDDANCNLICGDEYGPETRLSMSQLNEKETPFELIEALLKYIETLNVPGAVLVFLPGW  
NLIYTMQKHLEMNPHFGSHRYQILPLHSQIPREEQRKVFDPVPVGVTKVILSTNIAETSI  
TINDVVYVIDSCKQVKVLFTHANNMTNYATVWASKTNLEQRKGRAGRVRPGFCFHLCSRA  
RFRLETHMTPEMFRTPLEHIALSIKLLRLGGIGQFLAKAIEPPPLDAVIEAHTLRELD  
ALDANDELTPGRILAKLPIEPRFGKMMIMGCIFYVGDAICTIAAATCFPEPFINEGKRL  
GYIHRNFAGNRFSDHVALLSVFQAWDDARMGGEAEIRFCEHKRLNMATLRMTWEAKVQL  
KEILINSGFPEDCLLTQVFTNTGPDNNLDVVISLLAFGVYPNVCYHKEKRKILTTEGRNA  
LIHKSSVNCPFSSQDMKYPSPFFVFGEKIRTRAISAKGMTLVTPQLLLFASKKVQSDGQ  
IVLVDDWIKLQISHEAAACITGLRAAMEALVVEVTKQPAIISQLDPVNERMLNMIRQISR  
PSAAGINLMIGSTRYGDGPRPPKMARYDNGSGYRRGGSSYSGGGYGGYSSGGYSGGGY  
GSANSFRAGYGAGVGGGYRGVSRGGFRGNSGGDYRGPSGGYRGSGGFQRGGGRGAYGTGY  
FGQGRGGGGY

>sp|Q8IYB7|DI3L2\_HUMAN DIS3-like exonuclease 2 OS=Homo sapiens GN=DIS3L2 PE=1 SV=4  
MSHPDYRMNLRPLGTPRGVSAGVPHDIGASPGDKSKNRSTRGKKKSIFETYMSKEDVS  
EGLKRGTLIQGLRLINPKKFHEAFIPSPDGRDIFIDGVARNRALNGDLVVVKLLPEEH  
WKVVKPESNDKETEAAYESDIPEELCGHHLPPQSLKSYNDSPDVIVEAQFDGSDSEDGHG  
ITQNVLDVGKKLSVCVSEKGREDDGAPVTKDETTCSQDTRALSEKSLQRSKVVYILE  
KKHSRAATGFLKLLADKNSELFRKYALFSPSDHRVPRIYVPLKDCPQDFVARPKDYANTL  
FICRIVDWKEDCNFALGQLAKSLGQAGEIEPETEGILTEYGVDFSDFSSEVLECLPQGLP  
WTIPPEEFSKRRDLRKDCIFTIDPSTARDLDDALSCKPLADGNFKVGVHIADVSYFVPEG  
SDLDKVAERATSVYLVQKVPMPLRLLCEELCSLNPM SDKLTFSVIWTLTPEGKILDEW  
FGRTIIRSCTKLSYEHAQSMIESPTEKIPAKELPPISPEHSSEEVHQAVALNLHGIKQLR  
QQRFDGALRLDQLKLAFTLDHETGLPQGCHIYIYRESNKLVEEFMLLANMAVAHKIHRA  
FPEQALLRRHPPPTRMLSDLVEFCDQMGLPVDFSSAGALNKSLTQTFGDDKYSLARKEV  
LTNMC SRPMQMALYFCSGLLQDPAQFRHYALNVPLYTHFTSPIRRFAVLVHRLAAAALG  
YRERLDMAPDTLQKQADHCNDRRMASKRVQELSTSLFFAVLVKESGPLESEAMVMGILKQ  
AFDVLVLRYGQKRIYCNALALRSHHFQKVGGKPELTLVWEPEDMEQEPAAQVITIFSLV  
EVLQAESTALKYSAILKRPQTQGHLPGEKEEEESDGEPEDSSTS

>sp|Q969H9|DIRC1\_HUMAN Disrupted in renal carcinoma protein 1 OS=Homo sapiens GN=DIRC1  
PE=2 SV=1  
MPEAHMQPAKLQTSPLTTDHGSKKPVSCYLPLSNAHPMCIEVQNAQNCSSAAATLEPSI  
ISDTCFYKPITKQLSSRSELNTVRLKCLNSLRGWKILNQLSLT

>sp|Q96F81|DISP1\_HUMAN Protein dispatched homolog 1 OS=Homo sapiens GN=DISP1 PE=1 SV=3

MAMNSGNDFVLSNSSIATSAANPSLTPCDGDHAAQQLTPKEATRTKVSPNGCLQLNG  
TVKSSFLPLDNQRMPLQCCCHPCPYHHPLTSHSSHQECHPEAGPAAPSALASCCMQPH  
SEYSASLCPNHSPVYQTTCCQLQSPSFLHHPWPDHFHQHPVQQHIANIRPSRPFKLPKS  
YAALIADWPVVVLGCTMFIVVLCALVGLVPELPDFSDPLLGFEPGRGTAIGQRLVTWNM  
VKNTGYKATLANYPFKYADEQAKSHRDDRWSDHYEREKREVDWNFHKDSFFCDVPSDRY  
SRVFTSSGGETLWNLPAIKSMCNVDNSRIRSHPFQGDLCQRTTAASCCPSWTLGNYIAI  
LNNRSSCQKIVERDVSHTLKLRLTCAKHYQNGTLGPDWDMAARRKDLKCTNVPRCKTK  
YNAVYQILHYLVDKDFMTPKTADYATPALKYSMLFSPTEKGESMMNIYLDNFENWNSSDG  
VTTITGIEFGIKHSLFQDYLLMDTVYPAIAIVIVLLVMCVYTKSMFITLMTMFAIISLI  
VSYFLYRVVFHFEFFPFMNLTAIIILVGIGADDAFVLCDVWNYTKFDKPHAETSETVSIT  
LQHAALSMFVTSFTTAAAFYANYVSNITAIRCFGVYAGTAILVNYVLMVTWLPVVVLHE  
RYLLNIFTCKKKPQQIYDNKSCWTVACQKCHKVLFAISEASRIFFEKVLPCIVIKFRYL  
WLFWFLALTVGGAYIVCINPKMKLPSLESEFQVFRSSHPFERYDAEYKKLFMFERVHHG  
EELHMPITVIWGVSPEDNGNPLNPKSKGKLTLDSSFNIASPASQAWILHFCQKLRNQTF  
YQTDQDFTSCFIETFKQWMENQDCDEPALYPCCSHWSFPYKQEIFELCIKRAIMELERS  
TGYHLDKSTPGPRFDINDTIRAVVLEFQSTYLFTLAYEKMHQFYKEVDSWISSELSSAPE  
GLSNGWFVSNLEFYDLQDLSLSDGTLIAMGLSVAVAFSVMLLTWNIIISLYAIIISAGTI  
FVTVGSVLVLLGWELNVLESVTISVAVGLSVDFAVHYGVAYRLAPDPDREGKVI FSLSRVG  
SAMAMAALTTFVAGAMMPSTVLAYTQLGTFMMLIMCISWAFATFFFQCMCRCLGPQGTC  
GQIPLPKKLQCSAFSHALSTSPSDKGQSKTHTINAYHLDPRGPKSELEHEFYELEPLASH  
SCTAPEKTTYEETHICSEFFNSQAKNLGMPVHAAYNSELSKSTESDAGSALLQPPLEQHT  
VCHFFSLNQRCSCPDAYKHLNYGPHSCQQMGDCLCHQCSPTTSSFVQIQNGVAPLKATHQ  
AVEGFVHPITHIHCPCQLQGRVKPAGMQNSLPRNFFLHPVQHIQAQEKIGKTNVHSLQRS  
IEEHLPKMAEPSSFVCRSTGSLKTCDDPENKQRELCKNRDVSNLESSGGTENKAGGKVE  
LSLSQTDASVNSEHFNQNEPKVLFNHLMGEAGCRSCPNNSSQSCGRIVRVKCNVDCQMPN  
MEANVPAVLTHSELSGESLLIKTL

>sp|P78352|DLG4\_HUMAN Disks large homolog 4 OS=Homo sapiens GN=DLG4 PE=1 SV=3

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MEYEEITLERNGLGFSIAGGTDNPHIGDDPSIFITKIIPGGAAQDGRLRVNDSILFV  
NEVDVREVTHSAAVEALKEAGSIVRLYVMRRKPPAEKVMEIKLIKGPKGLGFSIAGGVGN  
QHIPGDNSIYVTKIIIEGGAHKDGRQLQIGDKILAVNSVGLDVMHEDAVAALKNTYDVVY  
LKVAKPSNAYLSDSYAPPDITTSYSQHLNEISHSSYLGDYPTAMTPTSPRRYSPVAKD  
LLGEEDIPREPRRIVHRGSTGLGFNIVGGEDGEGIFISFILAGGPADLSGELRKGDQIL  
SVNGVDLRNASHEQAAIALKNAGQTVTIIAQYKPEEYSRFEAKIHDLREQLMNSSLGSGT  
ASLRSNPKRGFYIRALFDYDKTKDCGFLSQALSFRFGDVLHVIDASDEEWWQARRVHSDS  
ETDDIGFIPSKRRVERREWSRLKAKDWGSSSGSQGREDSVLSYETVTQMEVHYARPIIIL  
GPTKDRANDDLLSEFPDKFGSCVPHTTRPKREYEIDGRDYHFVSSREKMEKDIQAHKFIE  
AGQYNHSLYGTSVQSVREVAEQGKHCI LDVSANAVRRLQAAHLHPAIAIFIRPSLENVLE  
INKRITEEQARKAFDRATKLEQEFTECFSAIVEGDSFEEIYHKVKRVIEDLSGPYIWVPA  
RERL

>sp|Q8N7S2|DNJ5G\_HUMAN DnaJ homolog subfamily C member 5G OS=Homo sapiens GN=DNAJC5G PE=2  
SV=1

MSTVKEAAHRLSKSEMSLYAVLDLKKGASPEDFKKSYSHSALLPHPPFEYHLGRKLALRY  
HPDKNPNAQAAEIFKEINAAHILSDSKKRKIYDQHGSGLGIYLYDHFGEEGVRYFFILN

SCWFKTLVILCTLLTCCCFCCCCCFCCGALKPPPEQDSGRKYQQNVQSQPPRSGAKCDFR  
SEENSEDDF

>sp|Q9NRI5|DISC1\_HUMAN Disrupted in schizophrenia 1 protein OS=Homo sapiens GN=DISC1 PE=1  
SV=3

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPA  
VGTLFRFPGGVSGEESHSESRRARQCGLDSRGLLVRSPPVSKSAAAPTVTSTVRGTSAHFGI  
QLRGGTRLPLDRLSWPCPGSAGWQEFAMDSSETLDASWEAACSDGARRVRAAGSLPSA  
ELSSNSCSPGCGPEVPPTPPGSHSAFTSSFSFIRLSLGSAGERGEAEGCPPSREAESHCQ  
SPQEMGAKAASLDGPHEDPRLSRPFSLLATRV SADLAQAARNSSRPERDMHSLPMDPG  
SSSSLDPSLAGCGDGS SGGDAHSWDTLLRKWEPVLRDCLLRNRRQMEVISLRLKLQKL  
QEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHLAAQVQAALRRGA  
TQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKKQLKEIEALQARMFVLE  
AKDQQLRREIEEQEQLQWQGC DLTPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEP  
ETIRSLQERIKSLNLSLKEITTKVCMSEKFCSTLRKKVNDIETQLPALLEAKMHAISGNH  
FWTAKDLTEEIRSLT SEREGLEGLLSKLLVSSRNKKLGSVKEDYNRLRREVEHQETAY  
ETSVKENTMKYMETLKNKLC SCKCPLL GKVWEADLEACRLLIQSLQLQEARGSLSVEDER  
QMDDLEGAAPP IPPRLHSEDKRKTP LKVLEEWKTHLIPSLHCAGGEQKEESYILSAELGE  
KCEDIGKKLLYLEDQLHTA IHSHEDLIQSLRRELQMVKETLQAMILQLQPAKEAGEREA  
AASCMTAGVHEAQA

>sp|Q155Q3|DIXC1\_HUMAN Dixin OS=Homo sapiens GN=DIXC1 PE=1 SV=2

MLACLTRGNLLDVLQEGFNEQQLQAYVAWVNAQLKKRPAVKPVQDLRQDLRDGVILAYLI  
EIVAGEKLSGVQLSPGNQQEMKNVQVLQFVASKKIRMHQTS AKDIVDGNLKSIMRLVL  
ALAAHFKPGSSRTVNQGRDSRAPLQSHRPHCATAVAQAAAAALADVCHDMSRSGRDVFRY  
RQRNSSMDEEIEENPYWSVRALVQQYEGQQRSPSESSCSLTSPSPIHSAKSESIITQSEE  
KADFV IIPAEGIENRTEGTDSPLSRDWRPGSPGTYLETSWEEQLLEQQEYLEKEMEEAKK  
MISGLQALLNGLPEDEQERPLALCEPGVNPEEQLII IQSRLDQSMEENQDLKKELLKC  
KQEARNLQG IKDALQQRLTQQDTSVLQLKQELLRANMDKDELHNQNVDLQRKLDERNRL  
GEYKKELGQKDRLLQQHQA KLEELRKLSDVSYHQVDLERELEHKDVLLAHCMKREADEA  
TNYNSHNSQSNGLLPTAGKGATSVSNRGTS DLQLVRDALRSLRNSFSGHDPQHHTIDSL  
EQGISSLMERLHV METQKKQERKVRVKSPRTQVGSEYRESWPPNSKLPHSQSSPTVSSTC  
TKVLYFTDRSLTPFMVNIPKRLEEVT LKDFKAAIDREGNHRYHFKALDPEFGTVKEEIFH  
DDDAIPGWEKGIVAWVEEDHGEN

>sp|O75165|DJC13\_HUMAN DnaJ homolog subfamily C member 13 OS=Homo sapiens GN=DNAJC13 PE=1  
SV=5

MNIIRENKDLACFYTTKHSWRGKYKRVFSVGTHA ITTYPNTLEVTNQWPYGDICSISPV  
GKGQGTEFNLTFRKSGGKKSETLKFSTEHRTELLTEALRFR TDFSEGKITGRRYNCYKHH  
WDSRKPV ILEVTPGGFDQINPATNRVLC SYDYRNIEGFVDLSDYQGGFCILYGGFSRLH  
LFASEQREEI IKS AIDHAGNYIGISLRIRKEPLEFEQYLNLRFGKYSTDESITSLAEFVV  
QKISPRHSEPVKRVLALTETCLVERDPATYNIATL KPLGEVFALVCDSENQ LFTIEFIK  
GQVRKYSSTERDSL LASLLDGVRASGNRDVCVKMTP THKGQRWLLSMPVDEEVESLHLR  
FLATPPNGNFADAVFRFNANISYSGVLH AVTQDGLFSENKEKLINNAITALLSQEGDVVA  
SNAELESQFQAVRRLVASKAGFLAFTQLPKFRERLGVKVKALKRSNNGI IHA AVDMLCA  
LMCPMHDDYDLRQEQLNKASLLSSKKFLENLLEKFNSHVDHGTGALVISSLLDFTFALC  
APYSETTEGQQFDM LLEMVASNGRTL FKL FQHPSMAI IKGAGLVMKAI IEEGDKEIATKM

QELALSEGALPRHLHTAMFTISSDQRMILTNRQLSRHLVGLWTADNATATNLLKRILPPGL  
LAYLESSDLVPEKDADRMHVRDNVKIAMDQYGFKNKVPQWQRLAGKAAKEVEKFAKEKVD  
LVLHWRDRMGIAQKENINQKPVVLRKRRRIKIEANWDLFFYRFQGDHARSNLIWNFKT  
REELKDTLESEMRAFNDRELGSANVISWNHHEFEVKYECLAEEIKIGDYLRLLLEEDE  
NEESGSIKRSYEFFNELYHRFLTPKVNMMKCLCLQALAIIVYGRCHEEIGPFTDTRYIIGM  
LERCTDKLERDRLILFLNKLILNKKNVKDLMDSNGIRILVDLLTLAHLHVSRAVPLQSN  
VIEAAPDMKRESEKEWYFGNADKERSGPYGFHEMQLWTKGMLNAKTRCWAQGMGWRPL  
QSIPQLKWCLLASGQAVLNEDLATLILNMLITMCGYFSPSRDQDNAIIRPLPKVKRLLSD  
STCLPHIIQLLLTFDPILEKVAIILYHIMQDNQPLPRLYLSGVFFFIMMYTGSNVLPA  
RFLKYTHTKQAFKSEETKGQDIFQRSILGHILPEAMVCYLENYEPEKFSEIFLGEFDTPE  
AIWSSEMRRLMIEKIAAHLADFTPRLQSNTRALYQYCIPIINYPQLENELFCNIYYLKQ  
LCDTLRFPDWPICKDPVKLLKDTLDWKKVEKKPPMMSIDDAYEVLNLPQGQPHDESKI  
RKAYFRLAQKYHPDKNPEGRDMFEKVNKAYEFLCTKSAKIVDGPDPENIILILKTQSILF  
NRHKEDLPYKYAGYPMLIRITMETSDLLFSKESPLPAATELAFHTVNCNALAEEL  
RRENGLEVLQEAFCRCVAVLTRASKPSDMSVQVCGYISKCYSAQAQFECEKREKITEMPSI  
IKDLCRVLYFGKSIIPVAALGVECVSSFAVDFWLQTHLFQAGILWYLLGFLFNIDYTLLE  
SGIQKSEETNQEVANSKLSVHALSRLGGYLAEEQATPENPTIRKSLAGMLTPYVARK  
LAVASVTEILKMLNSNTESPYLIWNNSTRAELLEFLFLESQENMIKKGDCDKTYGSEFVYS  
DHAKELIVGEIFVRVYNEVPTFQLEVPKAFASLLDYIGSQAQYLHTFMAITHAAKVESE  
QHGDRLPRVEMALEALRNVIKYNPGSESECIGHFKLIFSLLRVHGAGQVQQLALEVVNIV  
TSNQDCVNNAIESMVLSSLLALLHSLPSSRQLVLETLYALTSSTKIIEAMAKGALIYLL  
DMFCNSTHPQVRAQTAEFAKMTADKLIGPKVRITLMKFLPSVFMAMRDNPAAVHIFE  
GTHENPELIWNDNSRDKSVSTTVREMMLEHFKNQQDNPEANWKLPEDFAVVFGEAEGELAV  
GGVFLRIFIAQPAWVLRKPREFLIALLEKLTELLEKNPHGETLETLTMTVCLFSAQPQ  
LADQVPPLGHLPKVIQAMNHRNNAIPKSAIRVIHALSENELCVRAMASLETIGPLMNGMK  
KRADTVGLACEAINRMFQKEQSELVAQALKADLVPYLLKLEGGIGLENLDSPAATKAQIV  
KALKAMTRSLQYGEQVNEILCRSSVWSAFKDQKHDLFISESQTAGYLTGPGVAGYLTAGT  
STSVMSNLPPPVDHEAGDLGYQT

>sp|Q9NVM6|DJC17\_HUMAN DnaJ homolog subfamily C member 17 OS=Homo sapiens GN=DNAJC17 PE=1  
SV=1

MAVTKELLQMDLYALLGIEKAADKEVKKAYRQKALSCHPDKNPDNPRAAELFHQLSQAL  
EVLTDAAAARAAYDKVRKAKKQAAERTQKLDEKRKKVKLDLEARERQAQAQSEEEEEESRS  
TRTLEQEIERLREEGSRQLEEQQRLIREQIRQERDQRLRGKAENTEGQGTPKLKLWKCK  
KEDESKGGYSKDVLLRLLQKYGEVLNLVSSKKPGTAVVEFATVKAELAVQNEVGLVDN  
PLKISWLEGQPQDAVGRSHGLSKGSVLSERDYESLVMMRMQAERQQLIARMQEDQE  
GPPT

>sp|Q96LL9|DJC30\_HUMAN DnaJ homolog subfamily C member 30 OS=Homo sapiens GN=DNAJC30 PE=1  
SV=3

MAAMRWRWWQRLLPWRLQARGFPQNSAPSLGLGARTYSQGDCSYSRTALYDLLGVPSTA  
TQAQIKAAYYRQCFLYHPDRNSGSAEAAERFTRISQAYVVLGSATLRRKYDRGLLSDDEL  
RGPGVRPSRTPAPDPGSPRTPPPTSRTHDGSRASPGANRTMFNFDAFYQAHYGEQLERER  
RLRARREALRKRQEYRSMKGLRWEDTRDTAAIFLIFSIFIIGFYI

>sp|O60832|DKC1\_HUMAN H/ACA ribonucleoprotein complex subunit 4 OS=Homo sapiens GN=DKC1  
PE=1 SV=3



MADAEVILPKKHKKKKSLPEEDVAEIQHAEFLIKPESKVAKLDTSQWPLLLKNFD  
KLNVRTTHYTPLACGSNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRIIRVEKTGH  
SGTLDPKVTGCLIVCIERATRLVKSQQSAGKEYVGIVRLHNAIEGGTQLSRALETLTGAL  
FQRPLIAAVKRQLRVRTIYESKMIYDPERRLGIFWVSCEAGTYIRTL CVHLGLLLGVG  
GQMQLRRVRSGVMSEKDHMTMHDVLDQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV  
MKDSAVNAICYGAKIMLPGLRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDH  
GIVAKIKRIMERDTPRKWGLPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYS  
ESAKKEVVAEVVKAPQVVAEAAKTAKRKRESESEDETTPAAPQLIKKEKKKSKDKKAK  
AGLESGAEPGDGSDTTKKKKKKKAKEVELVSE

>sp|Q9UBP4|DKK3\_HUMAN Dickkopf-related protein 3 OS=Homo sapiens GN=DKK3 PE=1 SV=2

MQRLGATLLCLLLAAVPTAPAPAPTATSAPVKPGPALSYQEEATLNEMFREVEELMED  
TQHKLRSAVEEMEAEAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN  
NQTGQMFSETVITSVGDEEGRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRLCTR  
DSECCGDQLCVWGHC TKMATRSGNGTICDNQRDCQPLCCAFQRGLLPVCTPLPVEGEL  
CHDPASRLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL  
PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALREPAAAAAALLGGEEI

>sp|Q15700|DLG2\_HUMAN Disks large homolog 2 OS=Homo sapiens GN=DLG2 PE=1 SV=3

MFFACYCALRTNVKKYRYQDEDA PHDHSLPRLTHEVRGPELVHVSEKNLSQIENVHGYVL  
QSHISPLKASPAPIIVNTDTLDTIPYVNGTEIEYEFEEITLERGNSGLGFSIAGGTDNPH  
IGDDPGIFITKIIPGAAAEDGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGSIVRLY  
VRRRRPILETVVEIKLFKGPGLGFSIAGGVGNQHIPGDN SIYVTKIIDGGAQKDGRLQ  
VGDRLLMVNNYSLEEVTHEEAVAILKNTSEVVYLKVGKPTTIYMTDPYGPPDITHSYSP  
MENHLLSGNGTLEYKTSLPPISPGRYSPIPKHMLVDDDYTRPPEPVYSTV NKLCDKPAS  
PRHYSPECDKSFLLSAPYSHYHLGLLPDSEMTSHSQHSTATRQPSMTLQRAVSLEGEPR  
KVVLHKGSTGLGFNIVGGEDGE GEFVSVFILAGGPADLSGELQRGDQILSVNGIDLRGASH  
EQAAAAALKGAGQVTI IIAQYQPEDYARFEAKI HDLREQMMNHSMSGSGSLRTNQRSLY  
VRAMFDYDKSDSGLPSQGLSFKYGDILHVINASDDEWWQARRVMLEGDSEEMGVIPSKR  
RVERKERARLKT VFNAPKGVIDSKGSFNDKRKKS FIFSRKFPFYKNKEQSEQETSDPER  
GQEDLILSYEPVTRQEINYTRPV IILGPMKDRINDDLISEFPDKFGSCVPHTTRPKRDYE  
VDGRDYHFVISREQMEKDIQE HKFIEAGQYNDNLYGTSVQSVRFVAERGKHCILDVSGNA  
IKRLQVAQLYPIAIFIKPRSLEPLMEMNKRLTEEQA KKT YDRAIKLEQEFGEYFTAIVQG  
DTLEDIYNQCKLVIEEQSGPFIWIPSKEKL

>sp|Q96MA1|DMRTB\_HUMAN Doublesex- and mab-3-related transcription factor B1 OS=Homo sapiens GN=DMRTB1 PE=2 SV=1

MADKMVRTPKCSRNRNHGFLVPVKGHAGKCRWKQCLCEKCYLISERQKIMAAQVLKTQA  
AEEEQEAAALCAQGPQASGAAAAAPVPVPAASLRPLSPGTPSGDADPGPEGRAAACFF  
EQPPRGRNPGPRALQPVLGGRSHVEPSERA AVAMPSLAGPPFGAEAAGSGYPGLDLRRP  
MRTVPGPLFTDFVRPLNINPDRALGPEYPPGSSMHPYCPFLGYLDAPPGVPLQQGFRHV  
SRSYQYGGGLVSEPGGDFQPSYYLPPPPPLPPLPPLPPQFLPPGYLSALHFLPPPPP  
PPPPSSFSLTVLFDTKENTDDQDAEVLSGEPSQPSSQEQSD

>sp|Q4LDG9|DNAL1\_HUMAN Dynein light chain 1, axonemal OS=Homo sapiens GN=DNAL1 PE=1 SV=1

MAKATTIKEALARWEEKTGQRPSEAKEIKLYAQIPPIEKMDASLSMLANCEKLSLSTNCI  
EKIANLNLGNLRILSLGRNNIKNLNGLEAVGDTLEELWISYNFIEKLGIHIMKKLKIL  
YMSNNLVKDWAEFVKLAELPCLEDLVFVGNPLEEKHSAENNWIEEATKRVPKLKKLDGTP

VIKGDEEEDN

>sp|096015|DNAL4\_HUMAN Dynein light chain 4, axonemal OS=Homo sapiens GN=DNAL4 PE=1 SV=1  
MGETEGKKDEADYKRLQTFPLVRHSDMPEEMRVETMELCVTACEKFSNNNESAAKMIKET  
MDKKFGSSWHVIVIGEGFGEITHEVKNLLLYFGGTLAVCVWKCS

>sp|Q8NFT8|DNER\_HUMAN Delta and Notch-like epidermal growth factor-related receptor  
OS=Homo sapiens GN=DNER PE=1 SV=1

MQPRRAQAPGAQLPALALLLLLGAGPRGSSLANPVPAAPLSAPGPCAAQPCRNGGVCT  
SRPEPDQHPAPAGEPGYSCTCPAGISGANCQLVADPCASNPCHHGNCSSSSSSSDGYL  
CICNEGVEGPNCEQALPSLPATGWTESMAPRQLQPVPATQEPDKILPRSQATVTLPTWQP  
KTGQKVVEMKWDQVEVIPDIACGNASSNSSAGGRLVSFEVPQNTSVKIRQDATASLILLW  
KVTATGFQQCSLIDGRSVTPLQASGGLVLLLEMLALGNNHFIGFVNDSVTKSIVALRLTL  
VVKVSTCVPGESHANDLECSGKGKCTTKPSEATFSCTCEEQYVGTFCEEYDACQRKPCQN  
NASCIDANEKQDGSNFTCVCLPGYTGELCQSKIDYCIIDPCRNGATCISLSGFTQCQPE  
GYFGSACEEKVDPACASSPCQNNGTCTYVDGVHFTCNCSPGFTGPTCAQLIDFCALSPCAHG  
TCRSVGTSYKCLCDPGYHGLYCEEYNECLSAPLNAATCRDLVNGYECVCLAELYKGTGHC  
ELYKDPCANVSCLNGATCDSDGLNGTCICAPGFTGEECDIDINECDSPCHHGGSCLDQP  
NGYNCHCPHWVGANCEIHLQWKSGHMAESLTNMPRHSLYIIIGALCVAFILMLIILIVG  
ICRISRIEYQGSSRPAYEEFYNCRSIDSEFSNAIASIRHARFGKSRPAMYDVSPAIYED  
YSPDDKPLVTLIKTKDL

>sp|Q96EY1|DNJA3\_HUMAN DnaJ homolog subfamily A member 3, mitochondrial OS=Homo sapiens  
GN=DNJA3 PE=1 SV=2

MAARCTRWLLVVVGTPLPAISGRGARPPREGVVGAWLSRKLSVPAFASLTSCGPRAL  
LTLRPGVSLTGTKHNPFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKY  
HPDTNKDDPKAKEKFSQLAEAYEVLSDDEVKRRKQYDAYGSAGFDPGASGSQHSYWKGGPTV  
DPEELFRKIFGEFSSSSFGDFQTVFDQPQEYFMELTFNQAAKGVNKEFTVNIMDTCERCN  
GKGNEPGTKVQHCHYCGSGMETINTGPFVMRSTCRRCGGRGSIISPVCVCRGAGQAKQ  
KKRVMIPVPAGVEDGQTVRMPVGKREIFITFRVQKSPVFRRDGADIHSDLFISIAQALLG  
GTARAQGLYETINVTIPPGTQTDQKIRMGKGIPRINSYGGDHYIHIKIRVPKRLTSRQ  
QSLILSYAEDETDEGTVNGVTLTSSGGSTMDSSAGSKARREAGEDEEGFLSKLKKMFTS

>sp|Q9UDY4|DNJB4\_HUMAN DnaJ homolog subfamily B member 4 OS=Homo sapiens GN=DNJB4 PE=1  
SV=1

MGKDYCYILGIEKGASDEDIKKAYRKQALKFHPDKNKSPQAEKFKEVAEAYEVLSDPKK  
REIYDQFGEEGLKGGAGGTGQGGTFRYTFHGDPHATFAAFFGGSNPFEIFFGRMGGR  
DSEEMEIDGDPFSAFGFSMNGYPRDRNSVGPSRLKQDPPVIHELRSLEEIYSGCTKRMK  
ISRKRLNADGRSYRSEDKILTIEIKKGWKEGTKITFPREGDETPNSIPADIVFIIKDKDH  
PKFKRDGSNIIYTAKISLREALCGCSINVPTLDGRNIPMSVNDIVKPMRRRIIGYGLPF  
PKNPDQRGDLLEFEVSFPDTISSSSKEVLRKHLPAS

>sp|075190|DNJB6\_HUMAN DnaJ homolog subfamily B member 6 OS=Homo sapiens GN=DNJB6 PE=1  
SV=2

MVDYYEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAK  
KRDIYDKYKKEGLNGGGGGSHFDSPFEFGFTFRNPDDVFFREFFGGRDPFSFDFDPFE  
DFFGNRRGPRGSRSGTGSFFSAFSGFSPFGSGFSSFDTGFTSFGSLGHGGLTSFSSTSF  
GGSGMGNFKSISTSTKMVNGRKITTKRIVENQERVEEEDGQLSLTINGVADDDALAE  
ERMRRGQNALPAQPAGLRPPKPPRPASLLRHAPHCLSEEEGEQDRPRAPGPWDPLASAAG

LKEGGKRKKQKQREESKKKKSTKGNH

>sp|Q9NNZ3|DNJC4\_HUMAN DnaJ homolog subfamily C member 4 OS=Homo sapiens GN=DNAJC4 PE=1 SV=1

MPPLLPLRLCRLWPRNPPSRLLGAAAGQRSRPSTYYELLGVHPGASTE EVKRAFFSKSKE  
LHPDRDPGNPSLHSRFVELSEAYRVLREQSRRSYDDQLRSGSPPKSPRTTVHDKSAHQT  
HSSWTPPNAQYWSQFHSVRPQGPQLRQQHKQNKQVLGYCLLLMLAGMGLHYIAFRKVKQ  
MHLNFMDEKDRIITAFYNEARARARANRGILQQRQLGQRQPPPEPTQGPEIVPRGAG  
P

>sp|Q9H3Z4|DNJC5\_HUMAN DnaJ homolog subfamily C member 5 OS=Homo sapiens GN=DNAJC5 PE=1 SV=1

MADQRQRSLSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEI  
NNAHAILTDATKRNIYDKYSLGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCY  
CCCCCCCCFNCCCGKCKPAPEGEETEFYVSPEDLEAQLQSDEREATDTPIVIQPASATE  
TTQLTADSHPSYHTDGFN

>sp|Q9BU89|DOHH\_HUMAN Deoxyhypusine hydroxylase OS=Homo sapiens GN=DOHH PE=1 SV=1

MVTEQEVD AIGQTLVDPKQPLQARFRALFTLRGLGGPGAIAWISQAFDDDSALLKHELAY  
CLGQMQDARAIPMLVDVLQDTRQEPMRHEAGEALGAIGDPEVLEILKQYSSDPVIEVAE  
TCQLAVRRLEWLQKHGGEPAAGPYLSVDPAPPAEERDVGRLREALDESRLPFERYRAMF  
ALRNAGGEEAALALAEGLHCGSALFRHEVGYYVLGQLQHEAAVPQLAAALARCTENPMVRH  
ECAEALGAIARPACLAALQAHADDPERVVRESCEVALDMEYHETGRAFYADGLEQLRGA  
PS

>sp|Q5JWR5|DOP1\_HUMAN Protein dopey-1 OS=Homo sapiens GN=DOPEY1 PE=2 SV=1

MNTEELELLSDSKYRNYVAAIDKALKNFYSSEWADLISALGKLNKVLQNNAKYQVVPKK  
LTIGKRLAQCLHPALPGGVHRKALETYEIIFKIIIGPKRLAKDLFLYSSGLFPLLANAAMS  
VKPTLLSLYEIYYPLPGKTLKPLGQLLTGILPGLGEEGSEYYERTNMLEKVA AAVDQSA  
FYSALWGSLLTSPAVRLPGITYVLAHLNRKLSMEDQLYIIIGSDIELMVEAVSTSVQDSSV  
LVQRSTLDLILFCFPFHMSQATRPDMIRILSAAHVVLRDMSLNRRLYAWLLGFDNNGA  
IIGPRSTRHSNPEEHATYYFTTFSKELLVQAMVGILQVNGFGEENTLMQDLKPFRIILISL  
LDKPELGPVILEDLIEVFRTLYSQCKAELDLQTEPPFSKDHAQLSSKLRENKKTAEIK  
TANLLFNSFEPYMWYVARWFEECCRRTLHVRLQIGPGDSNDSSSELQLTNFCLLVDFLL  
DIVSLPTRSMRVLQCETYIEIQTEHLPQLLLRMISALTSHLQTLHLSELTDRLCSKIL  
SKVQPPLLSASTGGVLQFPGSQNNSVKEWEDKKVSSVSHENPTEVFEDGENPPSSRSSES  
GFTEFIQYQADRTDDIDRESEGQAAAIPIGSTSSETETASTVGSEETIIQTPSVVTQG  
TATRSRKTAQKTAMQCCLEYVQQFLTRLINLYIIQNNFSQSLATEHQDGLGREQGETSK  
WDRNSQGDVKEKNISKQKTSKEYLSAFLAACQLFLECSSFPVYIAEGNHTSELSEKLET  
DCEHVQPPQWLQTLMNACSQASDFSVQSV AISLVMDLVGLTQSVAMVTGENINSVEPAQP  
LSPNQGRVAVVIRPPLTQGNLRYIAEKTEFFKHVALTLWDQLGDGTPQHHQKSVELFYQL  
HNLVPSSSICEDVISQQLTHKDKKIRMEAHAKFAVLWHLTRDLHINKSSSFVRSFDRSLF  
IMLDSLNSLDGSTSSVGAWLNQVLQRHDIARVLEPLLLLLLHPKTQRVSVQRVQAERYW  
NKSPCYPGESDKHFMQNFACSNVSQVQLITSKNGEKPLTMDEIENFSLTVNPLSDRLS  
LLSTSSETIPMVVSDFDLPDQQIEILQSSDSGCSQSSAGDNLSEVDPETVNAQEDSQMP  
KESSPDDDVQVVFDLICKVVSGLVESASVTSQLEIEAMPPKCSIDPDEETIKIEDDS  
IQSQNALLSNESSQFLSVSAEGGHECVANGISRNSSSPCISGTTHTLHDSSVASIETKS  
RQRSHSSIQFSFKEKLSEKVSEKETIVKESGKQPGAKPKVKLARKKDDDKKSSNEKLKQ

TSVFFSDGLDLENWYSCGEGDISEIESDMGSPGSRKSPNFNIHPLYQHVLVLYLQLYDSSR  
TLYAFSAIKAILKTNPIAFVNAISTTSVNNAYTPQLSLLQNLLARHRISVMGKDFYSHIP  
VDSNHNFRSSMYIEILISLCLYYMRSHYPHVKVTQAQDLIGNRNMQMSIEILTLLFTL  
AKVIESSAKGFPSFISDMLSKCKVQKVILHCLLSSIFSAQKWHSEKMAGKNLVAVEEGFS  
EDSLINFSEDEFDNGSTLQSQLLKVLQRLIVLEHRVMTIPEENETGDFVVSDEHISPH  
QPMTSLQYLHAQPI TCQGMFLCAVIRALHQCACKMHPQWIGLITSTLPYMGKVLQRVVV  
SVTLQLCRNLDNLIQYKYETGLSDSRPLWMASIIPPDMILTLEGITAI IHYCLDPTT  
QYHQLLVSDQKHLFEARSGILSIHLMIMSSVTLLWSILHQADSSEKMTIAASASLTTIN  
LGATKNLRQQILELLGPISMNHGVMMAAIAFVWNERRQNKTTRTKVIPAASEEQLLLV  
ELVRSISVMRAETVIQTVKEVLKQPPAIAKDKKHLSEVCMQFFYAYIQRIPVPNLVDS  
WASLLILLKDSIQLSLPAPGQFLILGVLNEFIMKNPSLENKKDQRDLQDVTHKIVDAIGA  
IAGSSLEQTTWLRNLEVKPSPKIMVDGNTLES DVEDMLSPAMETANITPSVYSVHALTL  
LSEVLAHLLDMVFYSDEKERVIPLLVNIMHYVVPYLRNHSAHNAPSYRACVQLSSLSGY  
QYTRRAWKKEAFDLFMDPSFFQMDASCVNHWRAIMDNLMTHDKTTFRDLMTRVAVAQSSS  
LNLFANRDVELEQRAMLLKRLAFAIFSSEIDQYQKYLPIQERLVESLRLPQVPTLHSQV  
FLFRVLLLRMS PQHLTSLWPTMITELVQVFLMEQELTADEDISRTSGPSVAGLETTYT  
GGNGFSTS YNSQRWNL YLSACKFLDLALALPSENLPQFQMYRWAFIPEASDDSGLEVRR  
QGIHQREFKPYVVR LAKLLRKRAKKNPEEDNSGRTLGWEPGHL LTTICTVRSMEQLLPFF  
NVLSQVFNSKVT SRCGGHSGSPILYSNAFPNKDMKLENHKPCSSKARQKIEEMVEKDFLE  
GMIKT

>sp|Q86YN1|DOPP1\_HUMAN Dolichyldiphosphatase 1 OS=Homo sapiens GN=DOLPP1 PE=2 SV=1

MAADGQC SLPASWRPVTLTHVEYPAGDL SGHLLAYLSLSPVFVIVGFVTLIIFKRELHTI  
SFLGGLALNEG VNWLIK NVIQEPRPCGGPHTAVGTYGMPSSHSQFMWFFSVYSFLFLYL  
RMHQTNNARFLDLLWRHVLSLGLLAVFLVSYSRVYLLYHTWSQVLYGGIAGGLMAIAWF  
IFTQEVLTPLFPRIAAPVSEFFLIRDTSLIPNVLWFEYTVTRAERNRQRKLGTKLQ

>sp|Q1HG43|DOXA1\_HUMAN Dual oxidase maturation factor 1 OS=Homo sapiens GN=DUOXA1 PE=1  
SV=1

MATLGHTFPFYAGPKPTFPMDDTLASIIIMIFLTALATFIVILPGIRGKTRLFWLLRVVTS  
LFIGAAILAVNFSSEWSVGQVSTNTSYKAFSSEWISADIGLQVGLGGVNITLTGTPVQQ  
NETINYNEEFTWRLGENYAEYAKALEKGLPDPVLYLAEKFTPRSPCGLYRQYRLAGHYT  
SAMLWVAFCLWLLANVMLSMPVLVYGGYMLLATGIFQLLALLFFSMATSLTSPCPLHLGA  
SVLHTHHGPAFWITLTTGLLCVLLGLAMAVAHMQPHRLKAFFNQSVDEDPMLEWSPEEG  
GLLSPRYRSMADSPKSQDIPLSEASSTKAYCKEAHPKDPDCAL

>sp|Q1HG44|DOXA2\_HUMAN Dual oxidase maturation factor 2 OS=Homo sapiens GN=DUOXA2 PE=1  
SV=2

MTLWNGVLPFYPPQPRHAAGFSVPLLIVILVFLALAASFLLILPGIRGHSRWWLVRVLLS  
LFIGAIEIVAVHFSAEWFVGTNTNTSYKAFSAARVTARVRLLVGLEGINITLTGTPVHQL  
NETIDYNEQFTWRLKENYAAEYANALEKGLPDPVLYLAEKFTPSSPCGLYHQYHLAGHYA  
SATLWVAFCLWLLSNVLLSTPAPLYGGLALLTTGAFALFGVFALASISSVPLCPLRLGSS  
ALTQYGAAFVWTLATGVLCLFLGGAVVSLQYVRPSALRTLDDQSAKDCSQERGGSPIL  
GDPLHKQAALPDLKCITTNL

>sp|Q9BVM2|DPCD\_HUMAN Protein DPCD OS=Homo sapiens GN=DPCD PE=1 SV=2

MAVTGWLESLRTAQKTALLQDGRRKVHYLFPDGKEMAEYDEKTSSELLVRKWRVKSALGA  
MGQWQLEVGDPAPLGAGNLGP ELIKESNANPIFMRKDTKMSFQWRIRNLPYPKDVYSVSV

DQKERCIIVRTTNKKYKKFSIPDLDRHQLPLDDALLSFAHANCTLIISYQKPKEVVVAE  
SELQKELKKVKTAKHSNDGCKTQ

>sp|Q9NR33|DPOE4\_HUMAN DNA polymerase epsilon subunit 4 OS=Homo sapiens GN=POLE4 PE=1  
SV=2

MAAAAAAGSGTPREEEGPAGEAAASQPQAPTSVPGARLSRLPLARVKALVKADPDVTLAG  
QEAFILARAAELFVETIAKDAYCCAQQGKRKTLQRRDLDNAIEAVDEFALLEGTL

>sp|P54098|DPOG1\_HUMAN DNA polymerase subunit gamma-1 OS=Homo sapiens GN=POLG PE=1 SV=1

MSRLLWRKVAGATVGPGVPAPGRWVSSVPASDPSDGQRRRQQQQQQQQQQQPQQPQ  
VLSSEGGQLRHNPLDIQMLSRGLHEQIFGQGGEMPGEAAVRRSVEHLQKHGLWGQPAVPL  
PDVELRLPPLYGDNLDQHFRLLAQKQSLPYLEAANLLLQAQLPPKPPAWAWAEGWTRYGP  
EGEAVPVAIPEERALVFDVEVCLAEGTCPTLAVAISSAWYSWCSQRLVEERYSWTSQLS  
PADLIPLEVPTGASSPTQRDWQEQQLVVGHNVSFDRAHIREQYLIQGSRMFLDTMSMHMA  
ISGLSSFQRSLWIAAKQGKHKVQPPTKQGQKSQRKARRGPAISSWDWLDISSVNSLAEVH  
RLYVGPPLEKEPRELFVKGTMKDIRENFQDLMQYCAQDVWATHEVFQQQLPLFLERCPH  
PVTLAGMLEMGVSYLPVNQNWERYLAEAQGYEELQREMKKSLMDLANDACQLSGERYK  
EDPWLWDLWDLQEFKQKAKKVKKEPATASKLPIEGAGAPGDPMDQEDLGPCSEEEEFQ  
QDVMARACLQKLKGTTELLPKRPQHLPGHPGWYRKLCPRLDDPAWTPGPSLLSLQMRVTP  
KLMALTWDGFPLHYSERHGWGYLVPGRDNLAKLPTGTTLESAGVVCYRAIESLYRKHC  
LEQKGQQLMPQEAGLAEFLLTDNSAIWQTVEELDYLEVEAEAKMENLRAAVPGQPLALT  
ARGGPKDTQPSYHHGNGPYNDVDIPGCWFFKLPHKDGNSCNVGSFPAKDFLPKMGDTLQ  
AGPGGASGPRALEINKMISFWRNAHKRISSQM VVWLPRSALPRAVIRHPDYDEEGLYAI  
LPQVVTAGTITRRAVEPTWLTASNARPDVSGSELKAMVQAPPGYTLVGADVDSQELWIAA  
VLGDAHFAAGMHGCTAFGWMTLQGRKSRGTDLHSKTATTVGISREHAKIFNYGRIYAGQP  
FAERLLMQFNHRLTQQEAAEKAQQMYAATKGLRWYRLSDEGEWLRELNLPVDRTEGGWI  
SLQDLRKVQRETARKSQWKKWEVVAERAWKGGTESEMFNKLESATSIPRTPVLGCCIS  
RALEPSAVQEEFMTSRVNWVQSSAVDYLHMLVAMKWLFEFEAIDGRFCISIHDEVRYL  
VREEDRYRAALALQITNLLTRCMFAYKLGLNDLPQSVAFFSAVDIDRCLRKEVTMDCKTP  
SNPTGMERRYGIPQGEALDIYQIIELTKGSLEKRSQGP

>sp|075417|DPOLQ\_HUMAN DNA polymerase theta OS=Homo sapiens GN=POLQ PE=1 SV=2

MNLLRRSGKRRRSESGDSFSGSGGDSSASPQFLSGSVLSPPPGLGRCLKAAAAGECKPT  
VPDYERDKLLLANWGLPKAVLEKYHSFGVKKMFEWQAECLLLGQVLEGKNLVYSAPTSAG  
KTLVAELLILKRVLEMRKKALFILPFVSVAKEKKYYLQSLFQEVGIKVDGYMGSTSPSRH  
FSSLDIAVCTIERANGLINRLIEENKMDLLGMVVVDELHMLGDSHRGYLLELLLTICYYI  
TRKSASCQADLASSLSNAVQIVGMSATLPNLELVASWLNALYHTDFRPVPLESVKVG  
SIYDSSMKLVREFEPMQVKGDEDHVVSLEYETICDNHVSLLFCPSKKWCEKLADI IARE  
FYNLHHQAEGLVKPSECPVILEQKELLEVMQDLRRLPSGLDSVLQKTPWGVAFHHAGL  
TFEERDIEGAFRQGLIRVLAATSTLSSGVNLPARRVIIRTPIFGGRPLDILTYQMVG  
RAGRKGVDTVGESILICKNSEKSGIALQGLKPVRSCLQRREGEVETGSMIRAILIIV  
GGVASTSQDMHTYAACTFLAASMKEGKQGIQRNQESVQLGATEACVMWLENEFIQSTEA  
SDGTEGKVYHPHTLGSATLSSSLSPADTLDFADLQRAMKGFVLENDLHILYLVTMPFED  
WTTIDWYRFFCLWEKLPTSMKRVAEVLGVEEGFLARCVKGVVARTERQHRQMAIHKRFF  
TSLVLLDLISEVPLREINQKYGCNRGQIQSLQQSAVYAGMITVFSNRLGWHNMELLSQ  
FQKRLTFGIQRELCDLVRVSLNNAQRARVLASGFHTVADLARANIVEVEVILKNAVFPK  
SARKAVDEEEEAVEERRNMRTIWTGRKGLTEREAAALIVEEARMILQQDLVEMGVQWNP

CALLHSSTCSLTHSESEVKEHTFISQTKSSYKKLTSKNKSNITFSDSYIKHSPNIVQDLN  
KSREHTSSFNCFNQNGNQEHTCSIFRARKRASLDINKEKPGASQNEGKTSDDKKVVQTFS  
QKTKKAPLNFNSEKMSRSFRSWKRRKHLKRSRDSSPLKDSGACRIHLQGQTLNPSLCE  
PFTLDEKKTEFRNSGPFANKVSLSGKEKDNKTSFPLQIKQNCWNITLTNDNFVEHIVTG  
SQSKNVTQATSVVSEKGRGVAVEAEKINEVLIQNGSKNQVYMKHHD IHPINQYLRKQS  
HEQTSTITKQKNI IERQMPCEAVSSYINRDSNVTINCERIKLNTENKPSHFQALGDDIS  
RTVIPSEVLPSAGAFSKSEGQHENFLNISRLQEKGTGTYTTNKTNNHVSDDLGLVLCDFED  
SFYLDTSQEKIIQQMATENAKLGAKDTNLAAGIMQKSLVQQNSMNSFQKECHIPPAEQH  
PLGATKIDHLDLKTGTMTKQSSDSHGVDILTPESPIFHSPILLEENGLFLKKNEVSVTDS  
QLNSFLQGYQTQETVKPVILLIPQKRTPTGVEGECLPVPETSLNMSDSSLFDSFSDDYLV  
KEQLPDMQMKPELPSEVTSNHFSDSLCLQEDLIKSNVNENQDTHQQLTCSNDESIIFSE  
MDSVQMVEALDNVDIFPVQEKNHVTVSPRALELSDPVLDEHHQGDQDGGQDERAEKSKL  
TGTRQNHFSFIWSGASFDLSPGLQRILDKVSSPLENEKLKSMTINFSSLNRKNTLNNEEQE  
VISNLETKQVQGSISSNNEVKSKEIEMLENNANHDETSSLLPRKESNIVDDNGLIPPTPI  
PTSASKLTFPGILETPVNPWKTNVLPQGESYLFQSPSDIKNHDLSPGSRNGFKDNPIS  
DTSFSLQLSQDGLQLTPASSSSSELSIIDVASDQNLQTFIKEWCKKRFSISLACEKIR  
SLTSSKTATIGSRFKQASSPQEIPIRDDGFPKGCDDTLVVGGLAVCWGGRDAYYFSLQKE  
QKHSEISASLVPPSLDPSLTLKDRMWYLQSLRKESDKECSVVIYDFIQSYKILLSCGI  
SLEQSYEDPKVACWLLDPDSQEPTLHSIVTSFLPHELPLEGMETSQGIQSLGLNAGSEH  
SGRYRASVESILIFNSMNQLNSLLQKENLQDVFRKVMPSQYCLALLELNGIGFSTAECE  
SQKHIMQAKLDAIETQAYQLAGHSFSFTSSDDIAEVLFLKLPPNREMKNQGSKKTLS  
TRRGIDNGRKLRLGRQFSTSKDVLNKLKALHPLPGLILEWRRITNAITKVVFPLQREKCL  
NPFLGMEIRIYPVSQSHTATGRITFTEPNIQNVPRDFEIKMPTLVGESPPSQAVGKGLLPM  
GRGKYKKGFSVNPRCQAQMEERAADRGMPPFSISMRHAFVPPFGSILAADYSQLELRILA  
HLSHDRRLIQVLNTGADVFRSIAAEWKMIEPESVGDDLQQAQKICYGIIYGMGAKSLGE  
QMGIKENDAACYIDSFKSRYTGINQFMTETVKNCKRDGFVQTLGRRRYLPGIKDNPNYR  
KAHAERQAINTIVQSAADIVKIATVNIQKQLETFHSTFKSHGHREGMLQSDQTGLSRKR  
KLQGMFCPIRGGFFILQLHDELLYEVAEEDVVQVAQIVKNEMESAVKLSVKLKVKVKGIGA  
SWGELKDFDV

>sp|Q14194|DPYL1\_HUMAN Dihydropyrimidinase-related protein 1 OS=Homo sapiens GN=CRMP1  
PE=1 SV=1

MSYQGKKSIPIHITSRLLIKGGRIINDDQSLYADVLEDGLIKQIGENLIVPGGVKTIEA  
NGRMVIPGGIDVNTYLQKPSQGMTAADFFQGTAAALVGGTTMIIDHVVPPEGSSLLTSF  
EKWHEAADTKSCDYSLHVDITSWYDGVREELEVLVQDKGVNSFQVYMAKDVYQMSDSQ  
LYEAFTLKGLGAVILVHAENGDLIAQEQRILEMGITGPEGHALSRPEELEAEAVFRAI  
TIAGRINCPVYITKVMKSAAIDIALARKKGPLVFGEPIAASLGTGTHYWSKNWAKAAA  
FVTSPPLSPDPTPDYLTSLACGDLQVTGSGHCPYSTAQKAVGKDNFTLIPEGVNGIEE  
RMTVVWDKAVATGKMDENQFVAVTSTNAKIFNLYPRKGRIAVGSDADVVIWDPDKLKT  
TAKSHKSAVEYNIFEGMECHGSPLVVISQGKIVFEDGNINVNKGMRGIPRKAFPEHLYQ  
RVKIRNKVFGLQGVSRGMYDGPVYEVPA TP KYATPAPSAKSSPSKHQPPP I RN LHQSNFS  
LSGAQIDDNNPRRTGHRIVAPPGGRSNITSLG

>sp|Q16555|DPYL2\_HUMAN Dihydropyrimidinase-related protein 2 OS=Homo sapiens GN=DPYSL2  
PE=1 SV=1

MSYQGKKNIPRITSRLLIKGGKIVNDDQSFYADIYMEDGLIKQIGENLIVPGGVKTIEA

HSRMVIPGGIDVHTRFQMPDQGMTSADDDFFQGTKAALAGGTTMIIDHVVPEPGTSLLAFF  
DQWREWADSKSCCDYSLHVDISEWHKGIQEEMEALVKDHGVNSFLVYMAFKDRFQLTDCQ  
IYEVLVIRDIGAIAQVHAENGDI AEEQQRILDLGITGPEGHVLSRPEEVEAEAVNRAI  
TIANQTNCPYITKVMSSAEVIAQARKKGTVVYGEPI TASLGTGSHYWSKNWAKAAA  
FVTSPPLSPDPTTDFLNSLLSCGDLQVTGSAHCTFN TAQKAVGKDNFTLIPEGTNGTEE  
RMSVIWDKAVVTGKMENQFVAVTSTNAAKVFNL YPRKGRIAVGSDADLVIWDPDSVKTI  
SAKTHNSSLEYNIFEGMECRGSPLVVISQGKIVLEDGTLHVTEGSGRYIPRKPFDFVYK  
RIKARSRLAELRGVPRGLYDGPVCEVSVTPKTVTPASSAKTSPAKQAPPVRNLHQSGFS  
LSGAQIDDNIPRRTTQRIVAPPGGRANITSLG

>sp|Q8TE96|DQX1\_HUMAN ATP-dependent RNA helicase DQX1 OS=Homo sapiens GN=DQX1 PE=2 SV=2

MTSQPLRLAEYGPSPGESELA VNPFDGLPFSSRYELLKQRQALPIWAARFTFLEQLES  
NPTGVVLVSGEPGSGKSTQIPQWCAEFALARGFQKGQVTVTQPYPLAARSLALRVAD EMD  
LTLGHEVGYSIPQEDCTGPNTLLRFCWDRLLLQEVASTRG TGAWGVVLDEAQERSVASD  
SLQGLLDARLEKLPGLDRVVVTDPALEPKLRAF WGNPPIVHIPREPERPSPIYWDTI  
PPDRVEAACQAVLELCRKELPGDVLVFLPSEEEISLCCESLSREVESLLLQGLPPRVLPL  
HPDCGRAVQAVYEDMDARKVVVTHWLADFSFSLPSIQHVIDSGL ELRSVYNPRIRAEFQV  
LRPISKCAEARRLRARGFPFGSCLCLYPKSFLELEAPLPQPRVCEENLSSLVLLKRR  
QIAEPGECHFLDQPAPEALMQALEDL DYLAALDDDGDLSDLGVILSEFPLAPELAKALLA  
SCEFDCVDEMLTAAMLTAAPGFTRPPLSAEEAALRRALEHTDGDHSSLIQVYEAFIQSG  
ADEAWCQARGLNWAALCQAHLRGELLELMQRIELPLSLPAFGSEQNRRDLQKALVSGYF  
LKVARDTDGTGNLYLLTHKHVAQLSSYCCYR SRRAPRPPWVLYHNFTISKDNCLSIVS  
EIQPQMLVELAPPYFLSNLPPESRDLLNQLREGMADSTAGSKSSSAQEFRDPCVLQ

>sp|Q6PKH6|DR4L2\_HUMAN Dehydrogenase/reductase SDR family member 4-like 2 OS=Homo sapiens  
GN=DHRS4L2 PE=2 SV=1

MARLLGLCAWARKSVRLASSRMTRRDPLTNKVALVTASTDGIGFAIARRLAQDRAHVVS  
SRKQQNVDAQAVATLQGEGLSVTGTVCHVGKAEDRERLVAMAVKLHGGIDILVSNAAVNPF  
FGSLMDVTEEVWDKLTLDINVKAPALMTKAVVPEMEKRGGSVVIVSSIAAFSPSPGFSPY  
NVSKTALLGLNNTLAIELAPRNIRVNCLHLDLSRLASAGCSGWTRKKRKA

>sp|Q8N682|DRAM1\_HUMAN DNA damage-regulated autophagy modulator protein 1 OS=Homo sapiens  
GN=DRAM1 PE=1 SV=1

MLCFLRGMAFVPFLLVTWSSAAFIISYVVAVLSGHVNPFLPYISDTGTPPESGIFGFMI  
NFS AFLGAATMYTRYKIVQKQNQTCYFSTPVFNLVSLVLGLVGCFGMGIVANFQELAVPV  
VHDGGALLAFVCGVVYTLLQSIISYKSCPQWNSLSTCHIRMVISAVSCAAVPMIVCASL  
ISITKLEWNPREDKYVYHVSAICEWTVAFGFIFYFLTFIQDFQSVTLRISTEINGDI

>sp|P01903|DRA\_HUMAN HLA class II histocompatibility antigen, DR alpha chain OS=Homo sapiens  
GN=HLA-DRA PE=1 SV=1

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDFDGDEIFHVD  
MAKKETVWRLEEFGRFASF EAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNS  
PVELREPNVLICFIDKFTPPVVNVTWLRNGKPVTTGVSETVFLPREDHLFRKFHYLPFLP  
STEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVCALGLTVGLVGIIIGTIFI IK  
GVRKSNAAEERRGPL

>sp|P13762|DRB4\_HUMAN HLA class II histocompatibility antigen, DR beta 4 chain OS=Homo sapiens  
GN=HLA-DRB4 PE=1 SV=2

MVCLKLPGGSCMAALTVTLTVLSSPLALAGDTQPRFLEQAKCECHFLNGTERVWNLI RYI

YNQEEYARYNSDLGEYQAVTELGRPDAEYWNSQKDLLERRRAEVDTYCRYNYGVVESFTV  
QRRVQPKVTVYPSKTQPLQHHNLLVCSVNGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNG  
DWTFTLVMLETVPRSGEVYTCQVEHPSMMSPLTVQWSARSESAQSKMLSGVGGFVLGGL  
FLGTGLFIYFRNQGHSLQPTGLLS

>sp|Q7Z7B8|DB128\_HUMAN Beta-defensin 128 OS=Homo sapiens GN=DEFB128 PE=3 SV=1  
MKLFLVLIILLFEVLTDGARLKKCFNKVTGYCRKKCKVGERYEIGCLSGKLCCANDEEEK  
KHVSFKKPHQHSGEKLSVLQDYIILPTITITFTV

>sp|Q6PH85|DCNL2\_HUMAN DCN1-like protein 2 OS=Homo sapiens GN=DCUN1D2 PE=1 SV=1  
MHKLKSSQKDKVRQFMACTQAGERTAIIYCLTQNEWRLDEATDSFFQNPDSLHRESMRNAV  
DKKKLERLYGRYKDPQDENKIGVDGIQQFCDDLSDPASISVLVIAWKFRAATQCEFSRK  
EFLDGMTELGCDSEKLLKALLPRLEQELKDTAKFKDFYQFTTFAKNPGQKGLDLEMAVA  
YWKLVLSGRFKFLDLWNTFLMEHHKRSIPRDTWNLLLDGFMNIADDMSNYDEEGAWPVLI  
DDFVEYARPVVTGGKRSFL

>sp|Q8IU60|DCP2\_HUMAN m7GpppN-mRNA hydrolase OS=Homo sapiens GN=DCP2 PE=1 SV=2  
METKRVEIPGSVLDDFCRSFILHIPSEERDNAIRVCFQIELAHWFYLD FYMQNTPLPQC  
GIRDFAKAVFSHCPFLLPQGEDVEKVLDEWKEYKMGVPTYGAIILDETLENVLLVQGYLA  
KSGWGFPGKGVNKEEAPHDCAAREVFEETGFDIKDYICKDDYIELRINDQLARLYIIPGI  
PKDTKFNPKTRREIRNIEWFSIEKLPCHRNDMPKSKLGLAPNKFMAIPFIRPLRDWLS  
RRFGDSSDSNGFSSTGSTPAKPTVEKLSRTKFRHSQQLFDPGSPGDQWVKHRQPLQKQP  
YNNHSEMSDLLKGNQSMRGNRKYQDSPNQKKRTNGLQPAKQQNSLMKCEKKLHPRKL  
QDNFETDAVYDLPSSSEDQLLEHAEGQPVACNGHCKFPFSSRAFLSFKFDHNAIMKILDL

>sp|Q5T197|DCST1\_HUMAN DC-STAMP domain-containing protein 1 OS=Homo sapiens GN=DCST1 PE=2  
SV=1

MDIKHHQNGTRGQRRKQPHTTVQRLTLWGLPVSCSWFLWRQPGEFPVTALLGAGAGGLL  
AIGLFQLLVNPMNIYEEQKIMFLYSLVGLGAMGWGTSPHIRCASLLLVKMLGKEGRLFV  
LGYALAAIYVGPVANLRHNLNNVIASLGCTVELQINNTRAAWRISTAPLRAMFKDLLSSK  
ELLRAETRNI SATFEDLDAQVNSETGYTPEDTMDSGETAQGREARQAPASRLHLSTQKMY  
ELKTKLRCSYVNVQAILSCRWFDRKHEQCMKHIWVPLLTHLLCLPMKFKFFCGIAKVME  
VWCRNRIPVEGNFGQTYDSL NQSI RGLDGEFSANIDFKEEKQAGVLGLNTSWERVSTEVR  
DYVYRQEARLEWALGLLHVLLSCTFLLVLHASFSYMSYNHDIRFDNIYISTYFCQIDDR  
RKKLGKRTLLPLRKAEEKTVIFPCKPTIQASEMSNVVRELLETLPILLLLVLCLGLDWAL  
YSIFDTIRHHSFLQYSFRSSHKEVKVGGDSMLARLLRKTIGALNTSSETVMESNNMPCL  
PQPVGLDARAYWRAAVPIGLLVCLCLLQAFGYRLRRVIAAFYFPKREKKRILFLYNDLLK  
KRAAFTKLRRAAILRRERQQKAPRHPLADILHRGCPLRRWLCRRCVVCQAPETPESYVC  
RTLDC EAVYCWSCWDDMRQRCPVCTPREELSSSAFSDSNDDTAYAG

>sp|Q9Y2R4|DDX52\_HUMAN Probable ATP-dependent RNA helicase DDX52 OS=Homo sapiens GN=DDX52  
PE=1 SV=3

MDVHDLFRRLGAGAKFDTRRFSADAARFQIGKRKYDFDSSEVLQGLDFFGNKKSVPGVCG  
ASQTHQKPQNGEKKESLTERKREQSKKKRKTMTSEIASQEEGATIQWMSSVEAKIEDKK  
VQRESKLTSGKLENLRKEKINFLRNKHKIHVQGTDLDPDIATFQQLDQEYKINSRLLQNI  
LDAGFQMPTPIQMQAIPVMLHGRELASAPTGS GKTAFSIPILMQLKQPANKGFRALII  
SPTRELASQIHRELIKISEGTGFRIMHKA AAVAAKKFGPKSSKFDILVTTPNRLIYLL  
KQDPPGIDLASVEWL VVDES DKL FEDGKTGFRDQLASIFLACTSHKVRRAMFSATFAYDV  
EQWCKLNL DNVISVSI GARN SAVETVEQELLFVGSETGKLLAMREL VKKGFNPPVLV FVQ



SIERAKELFHELIEGINVDVIAHAERTQQQRDNTVHSFRAGKIWVLICTALLARGIDFKG  
VNLVINYDFPTSSVEYIHRIGRTGRAGNKGKAITFFTDDKPLLSVANVIQQAGCPVPE  
YIKGFQKLLSKQKKKMIKKPLERESISTTPKCFLEKAKDKQKKVTGQNSKKKVALEDKS  
>sp|075398|DEAF1\_HUMAN Deformed epidermal autoregulatory factor 1 homolog OS=Homo sapiens  
GN=DEAF1 PE=1 SV=1

MEDSDSAKQLGLAEAAVAAAAVAAAAAAGGEAEEPVLSRDEDSEEDADSEAERET  
PRVTAVAVMAAEPGHMDMGAEALPGPDEAAAAAFAEVTTVTVANVGAAADNVFTTSVAN  
AASISGHVLSGRTALQIGDSLNTKATLIVVHTDGSIVETTGLKGPAAPLTPGPQSPPTP  
LAPGQKEGGTKYNWDPSVYDSELPVRCRNISGTLTKNRLGSGGRGRCIKQGENWYSPTEF  
EAMAGRASSKDWKRSIRYAGRPLQCLIQDGI LNPHAASCTCAACDDMTLSGPVRLFVPY  
KRRKKENELPTTPVKKDSPKNITLLPATAATTFTVTPSGQITTS GALTFDRASTVEATAV  
ISESPAQGDVFAGATVQEASVQPPCRASHPEPHYPGYQDSCQIAPFPEAALPTSHPKIVL  
TSLPALAVPPPTPTKAAPPALVNGLELSEPRSWLYLEEMVNSLLNTAQQKLTLFEQAKHA  
STYREAATNQAKIHADAERKEQSCVNCGREAMSECTGCHKVNYCSTFCQRKDWKDHQHIC  
GQSAAVTVQADEVHVAESVMEKVTV

>sp|Q96LJ7|DHRS1\_HUMAN Dehydrogenase/reductase SDR family member 1 OS=Homo sapiens  
GN=DHRS1 PE=1 SV=1

MAAPMNGQVCVVTGASRGIGRGIALQLCKAGATVYITGRHLDTLRVVAQEAQSLGGQCVP  
VVCDSSESEVRSLEFQVDREQQGRDLVLVNNAYAGVQITLNRNKAFWETPASMWDDIN  
NVGLRGHYFCSVYGARLMVPAGQGLIVVISPGLQYMFNPYPYGVGKAACDKLAADCAHE  
LRRHGVSCVSLWPGIVQTELLKEHMAKEEVLQDPVLKQFKSAFSSAETTELSGKCVVALA  
TDPNILLSGKVLPSCDLARRYGLRDVDGRPVQDYLSSLVLSHVSGLGLASYLPSFLR  
VPKWIIALYTSKF

>sp|Q13268|DHRS2\_HUMAN Dehydrogenase/reductase SDR family member 2, mitochondrial OS=Homo sapiens  
GN=DHRS2 PE=1 SV=4

MLSAVARGYQGWFHPCARLSVRMSSTGIDRKGVLANRVAVVTGSTSGIGFAIARRLARDG  
AHVVISSRKQQNVDRAMAKLQGEGLSVAGIVCHVGKAEDREQLVAKALEHCGGVDFLVCS  
AGVNPLVGSTLGTSEQIWDKILSVNVKSPALLLSQLLPYMNRRGAVILVSSIAAYNPVV  
ALGVYNVSKTALLGLTRTLALELAPKDIRVNCVPGIIKTDFSKVFHGNESLWKNFKEHH  
QLQRIGESDCAGIVSFLCSPDASYVNGENIAGYSTRL

>sp|Q9BTZ2|DHRS4\_HUMAN Dehydrogenase/reductase SDR family member 4 OS=Homo sapiens  
GN=DHRS4 PE=1 SV=3

MHKAGLLGLCARAWNSVRMASSGMTRRDPLANKVALVTASTDGIGFAIARRLAQDGAHV  
VSSRKQQNVDAQAVATLQGEGLSVTGTVCHVGKAEDRERLVATAVKLHGGIDILVSNAAVN  
PFFGSIMDVTEEVWDKTLIDINVKAPALMTKAVVPEMEKRGGSVVIVSSIAAFSPSPGFS  
PYNVSKTALLGLTKTLAIELAPRNIRVNCLAPGLIKTSFSRMLWMDKEKEESMKETLRIR  
RLGEPEDCAGIVSFLCSEDASYITGETVVVGGGTPSRL

>sp|Q9BPW9|DHRS9\_HUMAN Dehydrogenase/reductase SDR family member 9 OS=Homo sapiens  
GN=DHRS9 PE=1 SV=1

MLFWVLGLLILCGFLWTRKGKLIKIEDITDKYIFITGCDSGFGNLAARTFDKKG FHVIAAC  
LTESGSTALKAETSERLRTVLDDVTDPENVKRTAQWVKNQVGEKGLWGLINNAGVPGVLA  
PTDWLTLEDYREPIEVNLFGLISVTLNMLPLVKKAQGRVINVS SVGGRLAIVGGGYTPSK  
YAVEGFNDSLRRDMKAFGVHVSCEPGLFKTNLADPVKVEKKLAIWEQLSPDIKQQYGE  
GYIEKSLDKLKGKNSYVNMDLSPVVECDHALTSLFPKTHYAAGKDAKIFWIPLSHMPAA

LQDFLLLKQKAELANPKAV

>sp|043143|DHX15\_HUMAN Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Homo sapiens GN=DHX15 PE=1 SV=2

MSKRHRLDLGEDYPSGKKRAGTDGKDRDRDRDREDSKDRDRERDRGDREREREKEKEKE  
LRASTNAMLISAGLPPLKASHSAHSTHSAHSTHSTHSAHSTHAGHAGHTSLPQCINPFTN  
LPHTPRYYDILKKRLQLPVWEYKDRFTDILVRHQSFLVGETGSGKTTQIPQWCVEYMRS  
LPGPKRGVACTQPRRVAAMSVAQRVADEMDVMLGQEVGYISIRFEDCSSAKTILKYMTDGM  
LLREAMNDPLLERYGVIIIDEAHERTLATDILMGVLKEVVQRSDLKVIVMSATLDAGKF  
QIYFDNCPLLTIPGRTHPVEIFYTPEPERDYLEAAIRTVIQIHMCEEEGDLFLTGQE  
EIDEACKRIKREVDDLGPVEVDIKIIPLYSTLPPQQQQRIFEPPPPKKQNGAIGRKVVVS  
TNIAETSLTIDGVFVIDPQFAKQKVYNPRIRVESLLVTAISKASQAQRAGRAGRTRPGK  
CFRLYTEKAYKTEMQDNTYPEILRSNLGSSVLQLKKLGIDDLVHFDMDPPAPETLMRAL  
ELLYLAALNDDGDLTELGSMMAEFPLDPQLAKMVIASCDYNCSNEVLSITAMLSVPQCF  
VRPTEAKKADEAKMRFADIDGDLTLLNVYHAFKQNHESVQWCYDNFINYRSLMSADNV  
RQQLSRIMDRFNLPRRSTDFTSRDYYINIRKALVTGYFMQVAHLERTGHYLTVDKNQVVQ  
LHPSTVLDHKPEWVLYNEFVLTTKNYIRTCTDIKPEWLVKIAPQYYDMSNFPQCEAKRQL  
DRIIAKLQSKEYSQY

>sp|Q8TF46|DI3L1\_HUMAN DIS3-like exonuclease 1 OS=Homo sapiens GN=DIS3L PE=1 SV=2

MLQKREKVLLLRTFQGRTLRIVREHYLRPCVPCHSPLCPQPAACSHDGKLLSSDVTHYVI  
PDWKVVQDYLEILEFPPELKGIIFMQTACQAVQHQRGRRQYNKLRNLLKDHARHDCILFANE  
FQQCCYLPRGERGESMEKWQTRSIYNAAVWYYHHCQDRMPIVMTEDEEAIQQYGSETEGV  
FVITFKNYLDNFWPDLKAAHELCDASILQSRERENESQESHGKEYPEHLPLEVLEAGIKS  
GRYIQGILNVNKHRAQIEAFVRLQGASSKSDLVSDILIHGMKARNRSIHGDVVVVVLLP  
KNEWKGRTVLNCENDCDKASGESPEPMTGRVVGILQKNWRDYVVTFPSKEEVQSQGK  
NAQKILVTPWDYRIPKIRISTQQAETLQDFRVVVRIDSWESTSVYPNGHFVRVLGRIGDL  
EGEIIATILVENSISVIPFSEAQMCEMPVNTPESPWKVSPEEEQKRKDLRKSHLVFSIDPK  
GCEDVDDTLVSRTLNNGNLELGVHIADVTHFVAPNSYIDIEARTRATYYLADRRYDMLP  
SVLSADLCSLLGGVDYAVSIMWELDKASYEIKKVWYGRTIIRSAYKLFYAAQELLDGN  
LSVDDIPEFKDLDEKSRQAKLEELVWAIGKLTDIARHVRAKRDGCGALELEGVEVCVQL  
DDKKNIHDLIPKQPLEVHETVAECMILANHWVAKKIWESFPHQALLRQHPPPHQEFFSEL  
RECAKAGFFIDTRSNTKLADSLDNANDPHDPIVNRLRSMATQAMSNALYFSTGSCAEE  
EFHHYGLALDKYTHFTSPIRRYSIDVVHRLMAAISKDKKMEIKGNLFSNKDLEELCRHI  
NNRNQAAQHSQKQSTELFQCMYFKDKDPATEERCISDGVIIYSIRTNGVLLFIPRFGIKGA  
AYLKNKDGLVISCGPDSCSEWKPQSLQRFQNKITSTTTDGESVTFHLFDHVTVRISIQAS  
RCHSDTIRLEIISNKPYPINTELHQSSPLLKSELVKEVTKSVEEAQLAQEVKVNI IQE  
EYQEYRQTKGRSLYTLLEEIRDLALLDVSNNGYI

>sp|Q9H7Y0|DIA1R\_HUMAN Deleted in autism-related protein 1 OS=Homo sapiens GN=CXorf36 PE=2 SV=3

MEPQLGPEAAALRPGWLALLLWVSALSCSFSLPASSLSSLPQVRTSYNFGRTFLGLDKC  
NACIGTSICKKFFKEEIRSDNWLASHLGLPPDSLLSYPANYSDDSKIWRPVEIFRLVSKY  
QNEISDRRICASASAPKTCSIERVLRKTERFQKWLQAKRLTPDLVQGLASPLLRCPQSRL  
LDRVRRYAEEVADAGSIFMDHFTDRDKLRLLYTLAVNSHPILLQIFPGAEGWPLPKYLG  
CGRFLVSTSTRPLQEFYDAPPDQAADLAYQLLGVLSESLRNDLNYFFYFTHIDAGMFGVF  
NNGHLFIRDASAVGVIDKQEGSQEANRAGENKDIFSCLVSGCQAQLPSCESISSEKQSLVL

VCQKLLPRLQLGRFPSPVQDDIDSILVQCGDSIRPDPEVLGAASQLKDILRPLRTCDSRF  
AYRYPDCKYNDKF

>sp|060879|DIAP2\_HUMAN Protein diaphanous homolog 2 OS=Homo sapiens GN=DIAPH2 PE=1 SV=1

MEQPGAAASGAGGGSEEPGGGRSNKRSAGNRAANEETKNPKLNIQIKTLADDVRDRIT  
SFRKSTVKKKPLIQHPIDSQVAMSEFPAAQPLYDERSLNLSEKEVLDLFEKMEDMNLN  
EEKKAPLRNKDFTTKREMVVQYISATAKSGGLKNSKHECTLSSQEYVHELRSGISDEKLL  
NCLESRLVSLTSNPVSWNNFGEHGLGLLLELEKLLDKKQENIDKKNQYKLIQCLKAF  
MNNKFGLQRILGDERSLLLARAIIDPKQPNMMTEIVKILSAICIVGEENILDKLLGAITT  
AAERNNRERFSPIVEGLENQEALQLQVACMQFINALVTSPLYELDFRIHLRNEFLRSLKT  
MLPDLKEKENDELDIQLKVFDENKEDDLTELSHRLNDIRAEMDDMNEVYHLLYNMLKDTA  
AENYFLSILQHFLIRNDYYIRPQYYKIIIECVSQIVLHCSGMDPDFKYRQLDIDLTHL  
IDSCVNKAKVEESEQKAAEFSSKFDDEFTARQEAQELQKRDEKIKELEAEIQQLRTQAQ  
VLSSSSGIPGPPAAPPLPGVGPPPPPPAPPLPGGAPLPPPPPLPGMMGIPPPPPPLLF  
GGPPPPPLGGVPPPPGISLNLPGYMKQKKMYKPEVSMKRINWSKIEPTELSENCFWLRV  
KEDKFENPDLFAKLALNFATQIKVQKNAEALKEEKTGPTKKVKELRIIDPKTAQNLSIF  
LGSYRMPYEDIRNVILEVNEDMLSEALIQNLVKHLPEQKILNELAELKNEYDDLCEPEQF  
GVVMSSVKMLQPRSSILFKLTFEEHINNIKPSIIAVTLACEELKKSESNRLELVLLV  
GNYMNSGRNAQSLGFKINFLCKIRDTSADQKTTLLHFIADICEEKYRDILKFPEELEH  
VESASKVSAQILKSNLASMEQQIVHLERDIKKFPQAENQHDKFVEKMTSFTKTAREQYEK  
LSTMHNMMKLYENLGEYFIFDSKTVSIEEFFGDLNNFRTLFLAVERNKRREMEETKTR  
RAKLAKEKAEQELERQKKKKQLIDINKEGDETGVMNLLLEALQSGAAFRDRKRIPRNP  
DNRRVPLERSRSRHNGAISK

>sp|Q96HU8|DIRA2\_HUMAN GTP-binding protein Di-Ras2 OS=Homo sapiens GN=DIRAS2 PE=1 SV=1

MPEQSNDRVAVFGAGGVGKSSLVLRVFKGTFRESYIPTVEDTYRQVISCDKSICITLQIT  
DTTGS HQFPAMQRLSISKGHAFILVYSITSRQSLEELKPIYEQICEIKGDVESIPIMLVG  
NKCDESPSREVQSSEAEALARTWKCAFMETSAKLNHNVKELFQELLNLEKRRTVSLQIDG  
KKSQKQKRKEKLKGCVIM

>sp|Q96SL1|DIRC2\_HUMAN Disrupted in renal carcinoma protein 2 OS=Homo sapiens GN=DIRC2  
PE=1 SV=1

MGSRWSSEEERQPLLGPGGLGASWRSREAAAAALPAAVPGPGRVYGRRWLVLLLFSL  
LAFVQGLVWNTWGPIQNSARQAYGFSSWDIALLVWGPIGFLPCFAFMWLLDKRGLRITV  
LLTSFLMVLGTGLRCIPISDLILKRRLIHGGQMLNLAGPTVMNAAPFLSTTWFSADERA  
TATAIASMSYLGGACAFLVGPLVVPAPNGTSPLLAESSRAHIKDRIEAVLYAEFGVVC  
LIFSATLAYFPPRPPLPPSVAAASQRLSYRRSVCRLLSNFRFLMIALAYAIPLGVFAGWS  
GVLDLILTPAHVSQVDAGWIGFWSIVGGCVVGIMARFADFIRGMLKILLLLFSGATLS  
STWFTLTCLNSITHLPLTTVTLYASCILLGVFLNSSVPIFFELFVETVYPVPEGITCGVV  
TFLSNMFMGVLLFFLTFYHTELSWFWNCLPGSCLLSLLLILCFRESYDRLYLDVVSV

>sp|Q9NQL9|DMRT3\_HUMAN Doublesex- and mab-3-related transcription factor 3 OS=Homo  
sapiens GN=DMRT3 PE=1 SV=1

MNGYGSPLYMGPPVSQPPRAPLQRTPKCARCRNHGVLWLKGHKRYCRFKDCTCEKCIL  
IIERQVRMAAQVALRRQQANESLESILPDSLRLPGPPPPGDAVAAPQPPASQPSQPQP  
PRPAAELAAAAALRWTAEPQPGALQAQLAKPDLTEERLGDGKSADNTEVFSDKDTQRSS  
PDVAKSKGCFTPEPSEIVSVEEGGYAVQKNGNPESRPDSPKCHAEQNHLLEIEGPGTVS  
LPFSLKANRPPEVLKKIFPNQKPTVLELILKCGGDLVSAVEVLLSSRSSVTGAERTSA

EPESLALPSNGHIFEHTLSSYPISSSKWSVGSFRVPTLRFSDSSNVVPSPLAGPLQP  
PFPQPPRYPLMLRNTLARSQSSPFLPNDVTLWNTMTLQQVQLRSQYVSPFPSNSTSVFR  
SSVLPARATEDPRISIPDDGCPVFSKQSIYTEDDYDERSDSSDSRTLNTSS

>sp|Q96SC8|DMTA2\_HUMAN Doublesex- and mab-3-related transcription factor A2 OS=Homo sapiens GN=DMRTA2 PE=2 SV=2

MELRSELPSVPGAATAAAATATGPPVASVASVAAAAAASLPVSVAGGLLRGPPLLLRA  
AEKYPRTPKCARCRNHGVVSALKGHKRYCRWKDCLCAKCTLIAERQVMAAQVALRRQQA  
QEENEARELQLLYGTAEGLALAAANGIIPPRPAYEVFGSVCAADGGGPGAGAPAGTGGGA  
AGAGGSEAKLQKFDLFPKTLQAGRPGSPLPPVVKPLSPDGADSGPGTSSPEVRPGSGSE  
NGDGESFSGSPLARASKEAGGSCPGSAGPGGGGEEDSPGSASPLGSESGSEADKEEGEAA  
PAPGLGGGSGPRQRTPLDILTRVFPGHRRGVLELVQCGGDVVQAIEQVLNHHRGGLAA  
GLGPAAPPDKAAVAAAAADDAWPSRVDAAAAAAGGPGLPAPLQAGPAAPPHRPLL  
AGAMAPGALGSLSSRSFSPQLPNASHFGADAGAYPLGAPLGLSPLRLAYSAAAAHSRGL  
AFMAPYSTAGLVPTLGRPPMDYAFSDLMRDRSAAAAAVHKEPTYGGGLYGPVNGAPE  
KQ

>sp|Q09019|DMWD\_HUMAN Dystrophia myotonica WD repeat-containing protein OS=Homo sapiens GN=DMWD PE=1 SV=3

MAAGGAEGSGPGAAMGDCAEIKSQFRTREGFYKLLPGDGAARRSGPASAQTPVPPQPPQ  
PPPGPASASGPGAAGPASSPPAGPGPGPALPAVRLSLVRLGEPDSAGAGEPPATPAGLG  
SGGDRVCFNLGRELYFYPGCCRRGSQRSIDLNKPIDKRIYKGTQPTCHDFNQFTAATETI  
SLLVGFSAGQVQYLDLIKDKTSLKFNEERLIDKTKVTYLKWLPESESLFLASHSGHLYL  
YNVSHPCASAPPQYSLKQGEFVSYYAAKSKAPRNPLAKWAVGEGPLNEFAFSPDGRHLA  
CVSQDGLRVFHFDSMLLRGLMKSIFYGGLLCVCWSPDGRYVVTGGEDDLVTVWSFTEGRV  
VARGHGHKSWNNAVAFDPYTTAEAAATAAGADGERSGEEEEPEAAGTGSAGGAPLSP  
LPKAGSITYRFGSAGQDTQFCLWDLTEDVLYPHPPLARTRTLPGTPGTPPAASSSRGGE  
PGPGPLPRSLRSNSLPHPAGGKAGGPGVAAEPGTPFSIGRFATLTLQERRDRGAEKEH  
KRYHSLGNISRGSGSGSGGEGKPSGPVPRSRLDPAKVLGTALCPRIHEVPLLEPLVCKK  
IAQERLTVLLFLEDCIITACQEGLICTWARP GKAFTEETEATGEGSWPRSPSKSVVEG  
ISSQPGNSPSGTVV

>sp|Q9UN19|DAPPI\_HUMAN Dual adapter for phosphotyrosine and 3-phosphotyrosine and 3-phosphoinositide OS=Homo sapiens GN=DAPPI PE=1 SV=1

MGRAELLEGMSTQDPSDLWSRSDGEAELLQDLGWYHGNTLHAAEALLSNGCDGSYLL  
RDSNETTGLYLSVRAKDSVKHFHVEYTGYSFKFGFNEFSSLKDFVKHFANQPLIGSETG  
TLMVLKHPYPRKVEEPSIYESVRVHTAMQTGRTEDDLVTAPSLGTKEGYLTKQGLVKT  
WKTRWFTLHRNELKYFKDQMSPEPIRILDLTECSAVQFDYSQERVNCFCLVFPFRTFYLC  
AKTGVEADEWIKILRWKLSQIRKQLNQEGTIRSRSFIFK

>sp|Q8N136|DAW1\_HUMAN Dynein assembly factor with WDR repeat domains 1 OS=Homo sapiens GN=DAW1 PE=1 SV=1

MKLKSLRLRYPPGIMLEYEKHGELKTKSIDLLDLGPSTDVSALVEEIQKAEPLLTASRT  
EQVKLLIQRLQEKLQNSNHTFYLFKVLKAHILPLTNVALNKSGSCFITGSYDRTCKLWD  
TASGEELNTLEGHRNVVYIAFNNPYGDKIATGSFDTCKLWSVETGKCYHTFRGHTAEI  
VCLSFNPQSTLVATGSMDTTAKLWDIQNGEEVYTLRGHSAEIIISLNFNTSGDRIITGSFD  
HTVVVWDADTGRKVNILIGHCAEISSASFNWDCSLILTGSMCKTCKLWDATNGKCVATLT  
GHDDEILDSCFDYTGKLIATASADGTARIFSAATRKCIKLEGEHEGEEKISISFNPQGNHL

LTGSSDKTARIWDAQTGQCLQVLEGHTDEIFSCAFNYKGNIVITGSKDNTCRIWR

>sp|Q9NQZ3|DAZ1\_HUMAN Deleted in azoospermia protein 1 OS=Homo sapiens GN=DAZ1 PE=1 SV=2

MSAANPETPNSTISREASTQSSSAAASQGWVLPPEGKIVPNTVFVGGIDARMDTEIGSCF  
GRYGSVKEVKIITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGAIRKQKLC  
ARHVQPRPLVVNPPPPQFQNVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISR  
EASTQSSSAAASQGWVLPPEGKIVPNTVFVGGIDARMDTEIGSCFGRYGSVKEVKIITNR  
TGVSKGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGAIRKQKLCARHVQPRPLVVNPPP  
PPQFQNVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISREASTQSSSAAASQGW  
VLPEGKIVPNTVFVGGIDARMDTEIGSCFGRYGSVKEVKIITNRTGVSKGYGFVSFVND  
VDVQKIVGSQIHFGKKLKLGAIRKQKLCARHVQPRPLVVNPPPPQFQNVWRNPNTET  
YLQPQITPNPVTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTYPDFAFQVTTGYQLPV  
YNYQFPFAYPRSPFQVTAGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQFPFAYPSS  
PFQVTAGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQAFPAYPNSPVQVTTGYQLPV  
YNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPNSAVQVTTGYQFHVYNYQMPPQCPVG  
EQRRNLWTEAYKWWYLVCLIQRRD

>sp|Q96EP5|DAZP1\_HUMAN DAZ-associated protein 1 OS=Homo sapiens GN=DAZAP1 PE=1 SV=1

MNNSGADEIGKLFVGGLDWSTTQETLRSYFSQYGEVDCVIMKDKTTNQRSRGFVVKFKD  
PNCVGTVLASRPHTLDGRNIDPKPCTPRGMQPERTRPKEGWQKGPRSDNSKSNKIFVGGI  
PHNCGETELREYFKKFGVVTEVVMYDAEKQRPRGFGFITFEDEQSDQAVNMHFHDIMG  
KKVEVKRAEPRDSKSPAGQPGASQWGSRVVPAANGWAGQPPTWQQGYGPQGMWVPAG  
QAIGGYGPPAGRGAPPPPPFTSYIVSTPPGGFPPQGFQGYGAPPQFSFGYGPPIPP  
PDQFAPPGVPPPPATPGAAPLAFPPPPSQAAPDMSKPPTAQPDFPYGQYAGYGQDLSGFG  
QGFSDPSQPPSYGGPSVPGSGGPPAGGSGFGRGQNHNVQGFHPYRR

>sp|Q30KR1|DB109\_HUMAN Beta-defensin 109 OS=Homo sapiens GN=DEFB109P1 PE=3 SV=1

MRLHLLLLILLFILLSVVRGGLGPAEGHCLNLFVGCRTDVCNIVEDQIGACRRRMKCC  
RAWWILMPIPTPLIMSDYQEPLKPNLK

>sp|Q30KQ9|DB110\_HUMAN Beta-defensin 110 OS=Homo sapiens GN=DEFB110 PE=3 SV=1

MKIQLFFFILHFVWTILPAKKKYPEYGLDLRRECRIGNGQCKNQCHENEIRIAYCIRPG  
THCCLQQ

>sp|Q9H1M3|DB129\_HUMAN Beta-defensin 129 OS=Homo sapiens GN=DEFB129 PE=2 SV=1

MKLLFPIFASLMLQYQVNTTEFIGLRCLMGLGRCRDHCNVDEKEIQCKMKKCCVGPVKV  
KLIKNYLQYGTNPVNLNEDVQEMLKPAKNSSAVIQRKHILSVLPQIKSTSFFANTNFVIIP  
NATPMNSATISTMTPGQITYTATSTKSNTKESRDSATASPPPAPPPPNILPTPSLELEEA  
EEQ

>sp|Q30KP9|DB135\_HUMAN Beta-defensin 135 OS=Homo sapiens GN=DEFB135 PE=3 SV=1

MATRSVLLALVVLNLLFYVPPGRSGPNVYIQKIFASCWRLQGTCRPKCLKNEQYRILCDT  
IHLCCVNPKYLPILTCK

>sp|Q9BQY9|DBND2\_HUMAN Dysbindin domain-containing protein 2 OS=Homo sapiens GN=DBND2  
PE=1 SV=3

MGAGNFLTALVPVAALAGAASDRRASCERVSPPPPLPHFRLPPLPRSRPGLPVSRRPEPG  
APLLGCWLQWGAPSPGPLCLLFRLCSTCFAPLPAGADMDPNPRAALERQQLRLRERQKF  
FEDILQPETEFVFPPLSHLHLESQRPPIGSISSMEVNVDTLEQVELIDLGPDAAADVFLPC  
EDPPPTPQSSGMDNHLEELSLPVPTSDRTTSRTSSSSSSDSTNLHSPNPSDDGADTPLA  
QSDEEEERGDDGAEPGACS

>sp|Q9BY27|DGC6L\_HUMAN Protein DGCR6L OS=Homo sapiens GN=DGCR6L PE=1 SV=2

MERYAAALEEVADGARQQERHYQLLSALQSLVKELPSSFQQRLSYTTLSDLALALLDGTV  
FEIVQGLLEIQHLTEKSLYNQRLRLQNEHRVLRQALRQKHQEAQQACRPHNLPVVQAAQQ  
RELEAVEHRIRREEQRAMDQKIILELDRKVADQQSTLEKAGVAGFYVTTNPQELMLQMNLL  
ELIRKLQQRGCRAGNAALGLGGPWQSPAAQCDQKGSPPVP

>sp|Q8WYQ5|DGCR8\_HUMAN Microprocessor complex subunit DGCR8 OS=Homo sapiens GN=DGCR8 PE=1 SV=1

METDESPSPLPCGPAGEAVMESRARPFQALPREQSPPPPLQTSSGAEVMDVSGGDGQSE  
LPAEDPFNFYGASLLSKGSFSKGRLLIDPNCSGHSPRTARHAPAVRKFSDDLKLLKDVKI  
SVSFTESCRSKDRKVLYTGAERDVRAECGLLLSPVSGDVHACPFGGSVGDVGIGGESAD  
KKDEENELDQEKREYAVLDELEDFTDNLELDEEGAGGFTAKAIVQRDRVDEEALNFPYE  
DDFDNDVDALLEGLCAPKKRRTEEKYGGSDHPSDGETSVQPMMTKIKTVLKSRRPPT  
EPLPDGWIMTFHNSGVPVYLHRESRVVTSRPYFLGTGSIRKHDPPLSSIPCLHYKKMKD  
NEEREQSSDLTPSGDVSPVKPLSRSAALEFPLDEPDMSGADPGPPDEKDPLGAEEAPGAL  
GQVKAKVEVCKDESVDLEEFRSYLEKRFDQVTVKKFRTWAERRQFNREMKRKAESER  
PILPANQKLITLSVQDAPTKEFVINPNGKSEVCILHEYMQRVLKVRPVYNFFECENPSE  
PFGASVTIDGVTYSGTASSKKLAKNKAARATLEILIPDFVKQTSEEKPKDSEELEYFNH  
ISIEDSRVYELTSKAGLLSPYQILHECLKRNHGMGDTSIKFEVVPQKNQKSEYVMACGKH  
TVRGWCKNKRVGKQLASQKILQLLHPHVKNWGSLLRMYGRESSKMVKQETSDKSVIELQQ  
YAKKNKPNLHILSKLQEEMKRLAEEREETRKKPKMSIVASAPGGEPLCTVDV

>sp|Q9Y2E4|DIP2C\_HUMAN Disco-interacting protein 2 homolog C OS=Homo sapiens GN=DIP2C PE=1 SV=2

MADRSLGEMALPLEVRARLAELELELSEGDITQKGYEKKRSKLIGAYLPQPPRVDQALPQ  
ERRAPVTPSSASRYHRRRSSGSRDERYSRVHTEAVQAALAKHKERKMAVPMPKRRSLV  
VQTSMDAYTPPDTSSGSEDEGSVQGDSQGTPTSSQGSINMEHWISQAIHGTTTSSSS  
TQSGGSGAAHRLADVMAQTHIENHSAPPDVTTYTSEHSIQVERPQGSGTSRTAPKYGNAE  
LMETGDGVPVSSRVSQIQLVNTLKRPKRPPLREFFVDDFEELLEVQQPDNPQKPEGA  
QMLAMRGEQLGVVTNWPPSLEAALQRWGTISPKAPCLTMDTNGKPLYILTYGKLWTRSM  
KVAYSILHKLGTQEPMPVRPGDRVALVFPNNDPAAFMAAFYGCLLAEVVPVPIEVPLTRK  
DAGSQQIGFLLGSCGVTVALTSDACHKGLPKSPTGEIPQFKGWPKLLWFVTESKHLSKPP  
RDWFPHIKDANNDTAYIEYKCTCKDGSVLGVTVTRTALLTHCQALTQACGYTEAETIVNVL  
DFKKDVGLWHGILTSVMNMHVISIPYSLMKVNPLSWIQVCQYKAKVACVKSRDMHWAL  
VAHRDQRDINLSSLRMLIVADGANPWSISSCDAFLNVFQSKGLRQEVICPCASSPEALTV  
AIRRPTDDSNQPPGRGVLSMHGLTYGVIRVDSEEKLSVLTVQDVGLVMPGAIMCSVKPDG  
VPQLCRTDEIGELCVCAVATGTSYYGLSGMTKNTFEVFPMTSSGAPISEYPFIRTGLLGF  
VGPGLLVFVVGKMDGLMVVSGRRHNADDIVATALAVEPMKFVYRGRIAVFSVTVLHDERI  
VIVAEQRPDSTEEDSFQWMSRVLQAIDSIHQVGUYCLALVPANTLPKTPGLGHIHLSSETKQ  
LFLEGLSHPCNVLMCPHTCVTNLPKPRQKQPEIGPASVMVGNLVSGKRIAQASGRDLGQI  
EDNDQARKFLFLSEVLQWRAQTTDPHILYTLNCRGAIANSLTCVQLHKRAEKIIVMLME  
RGHLQDGDHVALVYPPGIDLIAAFYGCLYAGCVPITVRPPHPQNIATTLPTVKMIVEVSR  
SACLMTTQLICKLLRSREAAAADVRTWPLILDTDLPKKRPAQICKPCNPDTLAYLDFS  
VSTTGMLAGVKMSHAATSAFCRSIKLQCELYPSREVAICLDPYCGLGFVLWCLCSVYSGH  
QSILIPPSELETPNALWLLAVSQYKVRDTFCYSVMELCTKGLGSQTESLKARGLDLSRV  
RTCVVVAEERPRIALTQSFSLFKDLGLHPRAVSTSFGCRVNLAICLQGTSGPDPTTVYV

DMRALRHDRVRLVERGSPHSLPLMESGKILPGVRIIIANPETKGPLGDSHLGEIWWHSAH  
NASGYFTIYGDESLQSDHFNSRLSFGDTQTIWARTGYLGFLRRELT DANGERHDALYVV  
GALDEAMELRGMRYHPIDIETSVIRAHKSVTECAVFTWTNLLVVVVELDGSEQEALDLVP  
LVTNVVLEEHYLIVGVVVVDIGVIPINSRGEKQRMHLRDGFLADQLDPIYVAYNM

>sp|Q9P2K9|DISP3\_HUMAN Protein dispatched homolog 3 OS=Homo sapiens GN=DISP3 PE=2 SV=2

MDTEDDPLLQDVWLEEEQEEEEATGETFLGAQKPGPQPGAGGQCCWRHWPLASRPPASGF  
WSTLGWAFTNPCCAGLVFLGCSIPMALSAFMFLYYPPLDIDISYNAFEIRNHEASQRFD  
ALTALKSQFGSWGRRDLADFTSETLQRLISEQLQQLHLGNRSRQASRAPRVIPAASL  
GGPGPYRDTSAQKPTANRSGRLRRETPPLEDLAANQSEDPRNQRLSKNGRYQPSIPPHA  
AVAANQSRARRGASRDYSRAYVSANTQTHAHWRIELIFLARGDAERNIFTSERLVTIHE  
IERKIMDHPGFREFCWPHEVLKDLPLGSYSYCSPPSSLMTYFFPTEGKGKIYDGMGQD  
LADIRGSLELAMTHPEFYWYVDEGLSADNLKSSLLRSEILFGAPLPNYYSVDDRWEEQRA  
KFQSFVVITYVAMLAKQSTSKVQVLYGGTDLFDYEVRRTFNNDMLLAFISSSCIAALVYIL  
TSCSVFLSFFGIASIGLSCLVALFLYHVVFQIYLGILNGVAAFVIVGIGVDDVFVFINT  
YRQATHLEDPQLRMIHTVQTAGKATFFTSLTAAAYAANVFSQIPAVHDFGLFMSLIVSC  
CWLAVLVTMPAALGLWSLYLAPLESSCQTSCHQNC SRKTSLHFPGDVFAAPEQVGGSPAQ  
GPIPYLDDDIPLLEVEEEPVSLELGDVSLVSVSPEGLQPASNTGSRGHLIVQLQELLHHW  
VLWSAVKSRWVIVGLFVSILILSLVFASRLRPASRAPLLFRPDTNIQVLLDLKYNLSAEG  
ISCITCSGLFQEKPHSLQNNIRTSLEKKRRGSGVPWASRPEATLQDFPGTVYISKVKSQG  
HPAVYRLSLNASLPAPWQAVSPGDGEVPSFQVYRAPFGNFTKKLTACMSTVGLLQAASPS  
RKWMLTTLACDAKRGWKFD FSFYVATKEQQHTRKLYFAQSHKPPFHGRVCMAPPGCLLSS  
SPDGPTKGGFFVPSEKVPKARLSATFGFNPCVNTGCGKPAVRPLVDTGAMVFVVFGIIGV  
NRTRQVDNHVIGDPGSSVYDSSFDLFKEIGHLCHLCKAIAANSELVKPGAQCLPSGYSI  
SSFLQMLHPECKELPEPNLLPGQLSHGAVGVREGRVQWISMAFESTTYKGKSSFTYSDY  
LRWESFLQQQLQALPEGSVLRRGFQTCHEWKQIFMEIVGVQSALCGLVLSLLICVAAVAV  
FTTHILLLL PVLLSILGIVCLVVTIMYWSGWEMGAVEAISLSILVGSSVDYCVHLVEGYL  
LAGENLPPHQAEDARTQRQWRTLEAVRHVGVAIVSSALTTVIATVPLFFCI IAPFAKFGK  
IVALNTGVSILYTLTVSTALLGIMAPSSFTTRTRTSFLKALGAVLLAGALGLGACL VLLQS  
GYKIPLPAGASL

>sp|P59910|DJB13\_HUMAN DnaJ homolog subfamily B member 13 OS=Homo sapiens GN=DNAJB13 PE=1  
SV=1

MGQDYYSVLGITRSEDAQIKQAYRRLALKHHPLKSNEPSSAEIFRQIAEAYDVLSDPMK  
RGIYDKFGEGLKGGIPLEFGSQTPWTTGYVFHGKPEKVFHEFFGGNNPFSEFFDAEGSE  
VDLNFGLQGRGVKKQDPQVERDLYLSLEDLFFGCTKKIKISRRVLNEDGYSSTIKDKIL  
TIDVKPGWRQGTRITFEKEGDQGPNIIPADII FIVKEKLHPRFRRENDLFFVNPIPLGK  
ALTCTVEVRTLDDRLLNIPINDIIHPKYFKKVPGEGMPLPEDPTKKGDLFIFFDIQFPT  
RLTPQKKQMLRQALLT

>sp|Q8IXB1|DJC10\_HUMAN DnaJ homolog subfamily C member 10 OS=Homo sapiens GN=DNAJC10 PE=1  
SV=2

MGVWLNKDDYIRDLKRIILCFLIVYMAILVGTQDFYSLLGVSKTASSREIRQAFKKLAL  
KLHPDKNPNPNNAHGDFLKINRAYEVLKDEDLRKKYDKYGEKGLEDNQGGQYESWNYRY  
DFGIYDDDEPIITLERREFDAAVNSGELWFVNFYSPGCSHCHDLAPTWRDFAKEVDGLLR  
IGAVNCGDDRMLCRMKGVNSYPSLFIFRSGMAPVKYHGDRSKESLSVFAMQHVRSTVTEL  
WTGNFVNSIQTAFAAGIGWLITFCSKGGDCLTSQTRLRLSGMLDGLVNVGWMDCATQDNL

CKSLDITTSTTAYFPPGATLNNKEKNSILFLNSLDAKEIYLEVIHNLPDFELLSANTLED  
RLAHRWLLFFHFGKNENSNDPELKKLKTLLKNDHIQVGRFDCSSAPDICSNLYVFQPSL  
AVFKGQGTKEYEIIHGKKILYDILAFAKESVNSHVTTLGPQNFPANDKEPWLVDFFAPWC  
PPCRALLPELRRASNLLYGQLKFGTLDCTVHEGLCNMYNIQAYPTTVVFNQSNIEYEGH  
HSAEQILEFIEDLMNPSVVS LTPTTFNELVTQRKHNEVWMVDFYSPWCHPCQVLMPEWKR  
MARTLTGLINVGSIDCQQYHSFCAQENVQRYPEIRFFPPKSNKAYHYHSYNGWNRDAYSL  
RIWGLGFLPQVSTDLTPQTTFSEKVLQGKNHWVIDFYAPWCGPCQNFAPFELLARMIKGK  
VKAGKVDCQAYAQTCQKAGIRAYPTVKFYFYERAKRNFQEEQINTRDAKATAALISEKLE  
TLRNQGKRKDEL

>sp|Q6Y2X3|DJC14\_HUMAN DnaJ homolog subfamily C member 14 OS=Homo sapiens GN=DNAJC14 PE=2  
SV=2

MAQKHPGERGLYGAHHSGGASLRTLGPSVDPEIPSFSGLRDSAGTAPNGTRCLTEHSGPK  
HTQHPNPAHWLDP SHGPPGGPGPRDAEDPDQSETSSEEE SGVDQELSKENETGNQKDG  
SFLSIPSACNCQGTPIPEGPYSEGGNGSSSNFCHCTSPALGEDELEEEYDDEESLKFP  
SDFSRVSSGKKPPSRQRHRFPTKEDTREGGRDPRSPGRHRLGRKRSQADKRKGLGLWG  
AEELCQLGQAGFWWLI ELLVLVGEYVETCGHLIYACRQLKSSDLDFRVWMGVWTGRLGG  
WAQVMFQFLSQGYCGVGLFTRFLKLLGALLLALALFLGFLQLGWRFLVGLDRLGWRD  
KATWLF SWLDSPALQRC LTLRDSRPWQRLVRIVQGWLELPWVKQINRQGNAPVASGR  
YCQPEEEVARLLTMAGVPEDELNPFHVLGVEATASDVELKKAYRQLAVMVHPDKNHHPRA  
EEAFKVLRAAWDIVSNAEKREYEMKRMAENELSRVNEFLSKLQDDLKEAMNTMMCSRC  
QGKHRRFEMDREPKSARYCAECNRLHPAEEGDFWAESSMLGLKITYFALMDGKVYDIT  
AGCQRVGISPDTHRVPYHISFGSRIPGTRGRQRATPDAPPADLQDFLSRIFQVPPGQMPN  
GNFFAAPQPAPGAAAASKPNSTVPKGEAKPKRRKKVRRPFQR

>sp|Q9Y2G8|DJC16\_HUMAN DnaJ homolog subfamily C member 16 OS=Homo sapiens GN=DNAJC16 PE=2  
SV=3

MEVRKLSISWQFLIVLVLILQILSALDFDPYRVLGVSR TASQADIKKAYKKLAREWHPDK  
NKDPGAEDKFIQISKAYEILSNEEKRSNYDQYGDAGENQGYQKQQQREYRFRHFHENFY  
FDESFHFHFNERRDSIDEKYL LHF SHYVNEVVPDSFKKPYLKITSDWCFSCIHIEPV  
WKEVIQELEELGVGIGVVHAGYERRLAHHLGAHSTPSILGIINGKISFFHNAVVRNLRQ  
FVESLLPGNLVEKVTNKNYVRFLSGWQQENKPHVLLFDQTPIVPLLYKLTAFAKYDLSF  
GYVYVGLRGTEEMTRYNNINIYAPTLLVFKEHINRPADVIQARGMKKI IDDFITRNKYL  
LAARLTQKLFHELCPVKRSHRQRKYCVLLTAETTKLSKPFEAFLSFALANTQDTRFV  
HVYSNRQQEFADTLLPDSEAFQGKSAVSILERRNTAGRVVYKTLED PWIGSESDFILLG  
YLDQLRKDPALLSSEAVLPDLTDELAPVFLLRWFYSASDYISDCWDSIFHNNWREMMPL  
SLIFSALFILFGTVIVQAFSDSNDERESSPEKEEAQKTEPSFTKENS SKIPKKG  
FEVTELTDTVYTSNLVRLRPGHMNVVLILSNSTKTSLLQKFALEVYFTGSSCLHFSFLS  
LDKHREWLEYLLEFAQDAAPIPNQYDKHFMERDYGTVLALNGHKYFCLFKPQKTVEE  
EAIGSCSDVDSSLYLGESRGKPSGLSRPIKGKLSKLSLWMERLLEGSLQRFYIPSWPE  
LD

>sp|Q9NZQ0|DJC27\_HUMAN DnaJ homolog subfamily C member 27 OS=Homo sapiens GN=DNAJC27 PE=1  
SV=1

MEANMPKRKEPGRSLRIKVISMGNAEVGKSCIIKRYCEKRFVSKYLATIGIDYGVTKVHV  
RDREIKVNIFDMAGHPFFYEVNREFYKDTQGVLVYDVGQKDSFDALDAWLAEMKQELGP  
HGNMENIIFVVCANKIDCTKHRCVDESEGR LWAESKGFLYFETSAQTGEGINEMFQTFYI



SIVDLCENGGRPTTSSASFTKEQADAIRRIRNSKDSWDM LGVKPGASRDEVNKAYRKL  
AVLLHPDKCVAPGSEDAFKAVVNARTALLKNIK

>sp|094907|DKK1\_HUMAN Dickkopf-related protein 1 OS=Homo sapiens GN=DKK1 PE=1 SV=1

MMALGAAGATRVFVAMVAALGGHPLLGVSATLNSVLNSNAIKNLPPPLGGAAGHPGSAV  
SAAPGILYPGGNKYQTIIDNYQPYPCAEDEECGTDEYCASPTRGGDAGVQICLACRKRKR  
CMRHAMCCPGNYCKNGICVSSDQNHFRGEIEETITESFGNDHSTLDGYSRRTTLSSKMYH  
TKGQEGSVCLRSSDCASGLCCARHFWSKICKPVLKEGQVCTKHRRKGSHGLEIFQRCYCG  
EGLSCRIQKDDHHQASNSSRLHTCQRH

>sp|Q9Y238|DLEC1\_HUMAN Deleted in lung and esophageal cancer protein 1 OS=Homo sapiens  
GN=DLEC1 PE=2 SV=2

METRSSKTRRSLASRTNECQGTMWAPTSPAGSSSPSQPTWKSSLYSSLAYSEAFHYSFA  
ARPRRLTQLALAQRPPEQLRLRPSSLRTQDISHLLTGVRNLYSAEVIGDEVSA LIKA  
RGSENERHEEFVDQLQQIRELYKQRLDEFEMLERHITQAQARAIAENERVMSQAGVQDLE  
SLVRLPPVKSVSRWCIDSELLRKHHLISPEDYYTDTVPFHSAPKGISLPGSKLTFSCCK  
RSVQKKELNKKLEDSCKKLA EFEDLDHTVDSL TWNLTPKAKERTREPLKKASQPRNKN  
WMNHLRVPQRELDRLLLARMESRNHFLKNPRFFPPNTRYGKSLVFPPKKPAPIGEFQST  
EPEQSCADTPVFLAKPPIGFFTDEYIGPVYEMVIALQNTTTTSRYLRVLPSTPYFALGL  
GMFPGKGMVAPGMTQYIVQFFPDCLGDFDDFILVETQSAHTLLIPLQARRPPPVLTL  
PVLDCGYCLIGGVKMTRFICKNVGFSVGRFCIMPKTSWPPLSFKA IATVG FVEQPPFGIL  
PSVFELAPGHAILVEVLFSPKSLGKAEQTFIIMCDNCQIKELVTIGIGQLIALDLIYISG  
EKSQDPDGELTDLTAQHFI RFEPENLRSTARKQLIIRNATHVELAFYWQIMKPNLQPLMP  
GETFSMDSIKCYPDKETAFSIMPRKGVLSPHDHEFILSFSPHELDRDFHSLQMVLEEV  
EPVSSEAESLGHSYSVDDVIVLEIEVKGSVEPFQVLLPEYALIIPGENYIGINVKKAFK  
MWNNKSPIRYLWGKISDCHIEVEPGTGVIEPSEVGDFELNFTGGVPGPTSQDLLCEIE  
DSPSPVVLHIEAVFKGPALIIINVSALQFGLRLGQKATNSIQIRNVSQLPATWRMKESPV  
SLQERPEDVSPFDIEPSSGQLHSLGECRVDITLEALHCQHLETVLELEVENGAWSYLPVY  
AEVQKPHVYLQSSQVEVRNLYLGVPTKTTITLINGTLLPTQFHWGKLLGHQAEFCMVTVS  
PKHGLLGPSEECQLKLELTAHTQEELTHLALPCHVSGMKKPLVLGISGKPQGLQVAITIS  
KESSDCSTEQWPGHPKELRLDFGSAVPLRTRVTRQLILTNRSPIRTRFSLKFEYFGSPQN  
SLSKKTSLPNMPPALLKTVRMQEHLAKREQLDFMESMLSHGKGAFFPHFSQGMLGPYQQ  
LCIDITGCANMWGEYWDNLICTVGDLLPEVIPVHMAAVGCPISSLRTSYTIDQAQKEPA  
MRFGTQVSGGDTVTRTLRLNNSPCDIRLDWETYVPEDKEDRLVELLVFYGPFPPLRDQA  
GNELVCPDTPEGGCLLWSPGPSSSSEFSHETDSSVEGSSSASNRVAQKLISVILQAHEGV  
PSGHLICYISPKQVVVPAGGSSTIYISFTPMVLSPEILHKVECTGYALGFMSLDSKVEREI  
PGKRHRLQDFAVGPLKLDLHSYVRPAQLSVELDYGGSMEFQCQASDLIPEQPCSGVLSEL  
VTTHHLKLTNTTEIPHYFRLMVS RPFVSQDGASQDHRAPGPGQKQCEEEETASADKQLV  
LQAQENMLVNVSFSLSELLSYQKLPADQTLPGVDIQQSASGEREMVFTQNLLLEYTNQT  
TQVVPLRAVVAVPELQLSTSWDFGTCFVSQQRVREVYLMNLSGCRSYWTMLMGQQEP  
AAVAFRVSPNSGLLEARSANAPPTSIALQVFFTARSSLEYSTMVVEGV LGEKSCTLR  
LRGQGSYDERYMLPHQP

>sp|Q9P1A6|DLGP2\_HUMAN Disks large-associated protein 2 OS=Homo sapiens GN=DLGAP2 PE=1  
SV=4

MGTAQVLP GILQKHCCILPDRNTESQCTLCGEPEEEEEAGDLVQPGISFPGPAEEDLDPQY  
SWSPTQHFNEERYSPAPRSMKGLSGSRTQPPLCSGHTCGLAPPEDCEHLHHGPDARPPYL

LSPADSCPGGRHRCSPRSSVHSECVMPVVLGDHVSSSTFPRMHYSSHYDTRDDCAVAHA  
GAKINRIPANLLDQFEKQLPLHRDGFHTLQYQRTSAAAEQRSESPGRIRHLVHSVQKLFT  
KSHSLEGSSKSNANGTKADGRADDDHHHAHHAKHSKRKSKERKPEGKPRPGMSSWWSSDD  
NLDSSTYRTPSVLNRHHLGPVAHCYPDALQSPFGDLSLKTSKSNNDVKCSACEGLALTP  
DAKYLKRSSWSTLTVSQAKEYRKSSLNLDKPLLHQDAKPALRPCHYLQVPQDEWGGYPT  
GGKDEEIPCRRMRSGSYIKAMGDEESGESDSSPKTSPKSAILPEPLLSIGQRPLGEHQT  
QTYLQAASDVPVGHSLDPAANYNSPKFRSRNQSYMRAVSTLSQASCVSQVSEAEINGQFE  
SVCESVFSEVESQAMDALDLPGCFRTRSHSYLRAIQAGYSQDDECIPMMTPSDITSTIRS  
TAAVSYTNYKKTPPPVPPRTTSKPLISVTAQSSTESTQDAYQDSRAQRMSPWPQDSRGLY  
NSTDSLDSNKAMNLALETAQAQRHLPESQSSSVRTSDKAILVSKAEELLKSRCSIGIQD  
SEFPEHQPYPRSDVETATDSDESRLREYHSVGVQVEDEKRHGRFKRSNSVTAAVQADL  
ELEGFPGHITTEDKGLQFGSSFQRHSEPSTPTQYSAVRTVRTQGLFSYREDYRTQVDST  
LPPDPWLEPAIDTVETGRMSPCRRDGSWFLKLLHAETKRMEGWCKEMEREAEENDLSEE  
ILGKIRSAVGSALLMSQKFQFYWLCQQNMDPSAMPRTSQDLAGYWDMLQLSIEDVSM  
KFDELQRLRLNDWKMMESPERKEERKVPPIPKKPPKGKFPITREKSLDLPDRQRQEARR  
RLMAAKRAASFRQNSASERADSIEIYIPEAQTRL

>sp|P80370|DLK1\_HUMAN Protein delta homolog 1 OS=Homo sapiens GN=DLK1 PE=1 SV=3

MTATEALLRVLLLLAFGHSTYGAECFPACNPQNGFCEDDNCRCQPGWQGPLCDQCVTS  
PGCLHGLCGEPGQCICTDGWDGELCDRDVRACSSAPCANNRTCVSLLDGLYECSCAPGYS  
GKDCQKKDGPCVINGSPCQHGGTCVDDEGRASHASCLCPPGSGNFCEIVANSCTPNPCE  
NDGVCTDIGGDFRCRCPAGFIDKTCRPVTNCASSPCQNGGTCLQHTQVSYECLCKPEFT  
GLTCVKKRALSPQQVTRLPSGYGLAYRLTPGVHELVPVQQPEHRILKVSMEKLNKKTPLLT  
EGQAICFTILGVLTSLVVLGTVGIVFLNKCETWVSNLRYNHMLRKKKNLLLQYNSGEDLA  
VNIIFPEKIDMTTFSKEAGDEEI

>sp|P28067|DMA\_HUMAN HLA class II histocompatibility antigen, DM alpha chain OS=Homo sapiens GN=HLA-DMA PE=1 SV=1

MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWDDLQNHTFLHTVYCQDGSPSVGLS  
EAYDEDQLFFDFSQNTRVPRLPEFADWAQEQGDAPAILFDKEFCEWMIQQIGPKLDGKI  
PVSRGFPIAEVFTLKPLEFGKPNLTLCFVSNLFPPMLTVNWDHDSVPVEGFGPTFVSAVD  
GLSFQAFSYLNTPEPSDIFSCIVTHEIDRYTAIAYWVPRNALPSDLLENVLCGVAFGLG  
VLGIIIVGIVLIIYFRKPCSGD

>sp|Q8NFW5|DMBX1\_HUMAN Diencephalon/mesencephalon homeobox protein 1 OS=Homo sapiens GN=DMBX1 PE=1 SV=1

MQHYGVNGYSLHAMNSLSAMYNLHQQAAQQAQHAPDYRPSVHALTLAERLAGCTFQDIIL  
EARYGSQHRKQRRSRTAFTAQQLALEKTFQKTHYPDVVMRERLAMCTNLPEARVQVWFK  
NRRAKFRKKQRSLQKEQLQKQKEAEGSHGEGKAEAPTPDTQLDTEQPPRLPGSDPPAELH  
LSLSEQSASESAPEDQPDREEDPRAGAEDPKAEKSPGADSKGLGCKRGSPKADSPGSLTI  
TPVAPGGGLLGSPHSYSSSPLSLFRLQEQRQHMAATNNLVHYSSFEVGGPAPAAAAAAA  
AVPYLGVNMAPLGSLLHCQSYYSLSAAAAAHQGVWGSPLLAPPAGLAPASATLNSKTTS  
IENLRLRAKQHAASLGLDTLPN

>sp|P11532|DMD\_HUMAN Dystrophin OS=Homo sapiens GN=DMD PE=1 SV=3

MLWWEVEEDCYEREDVQKKTFTKWVNAQFSKFGKQHINLFSDLQDGRRLDLLLEGLTGQ  
KLPKEKGSTRVHALNNVNKALRVLQNNNVDLVNIGSTDIVDGNHKLTLGLIWNIIILHWQV  
KNVMKNIMAGLQQTNSEKILLSWVRQSTRNYPQVNVINFTTSWSDGLALNALIHSRHPDL

FDWNSVVCQQSATQRLEHAFNIARYQLGIEKLLDPEDVDTTYDPKKSILMYITSLFQVLP  
QQVSI EAIQEVEMLPRPPKVTKEEHFQLHHQMHSQQITVSLAQGYERTSSPKPRFKSYA  
YTQAAYVTTSDPTRSPFPSQHLEAPEDKSFSGSSLMSEVNLDTRYQTALEEVL SWLLSAED  
TLQAQGEISNDVEVVKDQFHTHEGYMMDLTAHQGRVGNILQLGSKLIGTGKLS EDEETE V  
QEQMNLNLSRWECLRVASMEKQSNLHRVMDLQNNQKLKELNDWLT KTEERTRKMEEEEPLG  
PDLEDLKRQVQQHKVLQEDLEQEQVRVNSLTHMVVVVDESSGDHATAALEEQKVLGDRW  
ANICRWTEDRWVLLQDILLKWQRLTEEQCLFSAWLSEKEDAVNKIHTTGFKDQNEMLSSL  
QKLAVLKADLEKKKQSMGKLYSLKQDLLSTLKNKSVTQKTEAWLDFARCWDNLVQKLEK  
STAQISQAVTTTQPSLTQT TTVMETVTTVT TREQILVKHAQEELPPPPQKKRQITVDSEI  
RKRLDVDITELHSWITRSEAVLQSPEFAIFRKEGNFSDLKEKVNAIEREKA EKFRKLQDA  
SRSAQALVEQMVNEGVNADSIKQASEQLNSRWIEFCQLLSERLNLWLEYQNNIIAFYNQLQ  
QLEQMTTAEENWLKIQTTPSEPTAIKSQLKICKDEVNRLSDLQPQIERLKIQSIALKEK  
GGQPMFLDADFVAFTNHFKQVFSQVAREKELQTFDTLPPMRYQETMSAIRTWVQQSET  
KLSIPQLSVTDYEIMEQRLGELQALQSSSQEQSGLYLSTTVKEMSKKAPSEISRKYQS  
EFEEIEGRWKKLSSQLVEHCQKLEEQMNKL RKIQNHIIQTLKKWMAEVDVFLKEEWPALGD  
SEILKKQLKQCRLVSDIQTIQPSLNSVNEGGQKIKNEAEPEFASRLETELKELNTQWDH  
MCQQVYARKEALKGGLKTVSLQKDLSEMHEWMTQAE EYLERDFEYKTPDELQKAVEEM  
KRAKEEAQKQEKAVKLLTESVNSVIAQAPPVAQEALKKELETLT TNYQWLCTRLNGKCKT  
LEE VWACWHELLSYLEKANKWLNEVEFKLKT TENIPGGAE EISEVLDLENLMRHSEDNP  
NQIRILAQTLTDGGVMDELINEELETFSNRWRELHEEAVRRQKLEQS IQSAQETEKSLH  
LIQESLTFIDKQLAAYIADKVDAAQMPQEAQKIQSDLTSHEISLEEMKKHNQGKEAAQRV  
LSQIDVAQKKLQDVSMKFRLFQKPANFEQRLQESKMILDEVKMHLPALETKSVEQEVVQS  
QLNHCVNLYKSLSEVKSEVEMV IKTGRQIVQKKQTENPKELDERVTALKLHYNELGAKVT  
ERKQKLEKCLKLSRKMRKEMNVLTEWLAATDMELTKRS AVEGMPSNLDSEVAWGKATQKE  
IEKQKVHLKSITEVGEALKTVLGKKETLVEDKLSLLNSNWI AVTSRAE EWLNLLEYQKH  
METFDQNVNDHI TWKIQA DTLTDESEKKKPPQKQEDVLKRLKAELNDIRPKVDSTRDQAAN  
LMANRGDHCRLV EPQISELNHRFAAISHRIKTGKAS IPLKELEQFNSDIQKLEPLEAE  
IQQGVNLKEEDFNKMDNEDNEGT VKELLQRGDNLQQRITDERKREEIKIKQQLLQTKHNA  
LKDLRSQRRKKALEISHQWYQYKRQADDLLKCLDDIEKKLASLPEPRDERKIKEIDRELQ  
KKKEELNAVRRQA EGLSEDGAAMAVEPTQIQLSKRWREIESKFAQFRRLNFAQIHTVREE  
TMMVMTEDMPLEISYVPSTYLTEITHVSQALLEVEQLLNAPDLCAKDFEDL FKQEE SLKN  
IKDSLQSSGRIDIIHSSKTAALQSATPVERVKLQEALSQ LDFQWEKVNKMYKDRQGRFD  
RSVEKWRRFHYDIKIFNQWLTEAEQFLRKTQIPENWEHAKYKWLKELQDGIGQRQTVVR  
TLNATGEEIIQQSSKTDASILQEKLGSNLNRWQEVCKQLSDRKKRLEE QKNILSEFQRDL  
NEFVLWLEADNIASIPLEPGKEQLKEKLEQVKLLVEELPLRQGILKQLNETGGPVLVS  
APISPEEQDKLENK LKQTNLQWIKVSRALPEKQGEIEAQIKDLGQLEKKLEDLEEQLNHL  
LLWLSPIRNQLEIYNQPNQEGPFDVKETEIAVQAKQPDVEEILSKGQHLYKEKPATQPVK  
RKLEDLSSEWKAVNRLLQELRAKQPD LAPGLTTIGASPTQTVTLVTPVVTKETAI SKLE  
MPSSLMLEVPALADFNRAWTELTDWLSLLDQVIKSQRVMVG DLEDINEMI KQKATMQDL  
EQRRPQLEELITAAQNLKNKTSNQEARTIITDRIERIQQNWDEVQEHLQNNRQQLNEMLK  
DSTQWLEAKEEAEQVLGQARAKLESWKEGPYTVDAIQKKITETKQLAKDLRQWQTNVDVA  
NDLALKLLRDYSADDRKVMHMITENINASWRSIHKRVSEREAAL EETHRLLQQFPLDLEK  
FLAWLTEAETTANVLQDATRKERLLED SKGVKELMKQWQDLQGEIEAHTDVYHNL DENSQ  
KILRSLEGSDDAVLLQRRLDNMNFKWSEL RKKSLNIRSHLEASSDQWKRLHLSLQELLVW

LQLKDELRSQAPIGGDFPAVQKQNDVHRAFKRELKTKEPVMSTLETVRIFLTEQPLEG  
LEKLYQEPRELPEERAQNVTRLLRKQAEENVTEWEKLNLSADWQRKIDETLERLQELQ  
EATDELCLKLRQAEVIKGSWPVGDLLIDSLQDHLEKVKALRGEIAPLKENVSHVNDLAR  
QLTTLGIQLSPYNLSTLEDLNRWKLQVAVEDRVRQLHEAHRDFGPASQHFLLSTSVQGP  
WERAI SPNKVPYYINHETQTTCDWHPKMTELYQSLADLNNVRFSAYRTAMKLRLQKALC  
LDLLSLSAACDALDQHNKQNDQPMIDILQIINCLTTIYDRLEQEHNNLVNPLCVDMLN  
WLLNVYDTGRGTGRIRVLSFKTGIIISLCKAHLEDKYRYLQKQVASTGFCQRRLLGLLHD  
SIQIPRQLGEVASFGGSNIEPSVRSCFQFANNKPEIEAALFLDWMRLPQSMVWLPVLHR  
VAAETAQHAKCNICEKPIIGFRYRSLKHFNYDICQSCFFSGRVAKGHKMHYPMVEYC  
TPTTSGEDVRDFAKVLKNKFRTRKYFAKHPRMGYLPVQTVLEGDNMETPVTLINFWPVDS  
APASSQLSHDDTHSRIEHYASRLAEMENSNGSYLNDISPNESIDDEHLLIQHYCQSLN  
QDSPLSQPRSPAQILISLESEERGELERILADLEENRNLAQYDRLKQHEHKGLSPLP  
SPPEMMPTSPQSPRDAELIAEAKLLRQHKGRLEARMQILEDHNKQLESQHLRLQLLEQP  
QAEAKVNGTTVSSPSTSLQRSDDSSQPMLLRVVGSQTSDSMGEEDLLSPPQDTSTGLEEVM  
EQLNNSFPSSRGRNTPGKPMREDTM

>sp|O60884|DNJA2\_HUMAN DnaJ homolog subfamily A member 2 OS=Homo sapiens GN=DNAJA2 PE=1  
SV=1

MANVADTKLYDILGVPPGASENELKKAYRKLAKYHPDKNPNAGDKFKEISFAYEVLNPN  
EKRELYDRYGEQGLREGSGGGGMDIFSHIFGGGLFGFMGNQSRNRGRRRGEDMMHPL  
KVSLEDLYNGKTTKLQLSKNVLCSSGSGGKSGAVQKCSACRGRGVRIMIRQLAPGMVQ  
QMQSVCSDCNAGEVEINEKDRCKCEGKKVKEVKILEVHVDKGMKHGQRITFTGEADQA  
PGVEPGDIVLLLQEKEHEVFQRDGNLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP  
GKVIIEPGCVRVVRGEGMPQYRNPFEKGDLYIKFDVQFPENNWINPKLSELEDLLPSRPE  
VPNIIGETEEVELQEFDSTRGSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

>sp|P25686|DNJB2\_HUMAN DnaJ homolog subfamily B member 2 OS=Homo sapiens GN=DNAJB2 PE=1  
SV=3

MASYEILDVPRASADDIKKAYRRKALQWHPDKNPDNKEFAEKKFKEVAEAYEVLSDKH  
KREIYDRYGRELTGTGTGPSRAEAGSGGPGFTFTFRSPPEEVFREFFGSGDPFAELFDDL  
GPFSELQNRGSRHSGPFFTFSSSPFGHSDFSSSSFSPGAGAFRSVSTSTTFVQGRIT  
TRRIMENGQERVEVEEDGQLKSVTINGVPDDLALGLELSRREQQPSVTSRSGGTQVQQTP  
ASCPDSDLSDEDLQLAMAYSLSEMAAGKPAAGGREAQHRRQGRPKAQHQDPGLGGTQ  
EGARGEATKRSPSPEEKASRCLIL

>sp|Q7Z6W7|DNJB7\_HUMAN DnaJ homolog subfamily B member 7 OS=Homo sapiens GN=DNAJB7 PE=2  
SV=2

MVDYEEVLGLQRYASPEDIKKAYHKVALKWHPDKNPENKEEAERKFKEVAEAYEVLNDE  
KRDIYDKYGTGLNGGGSHFDDECEYGTTFHKPDDVFKEIFHERDPFSFHFEDSLEDLL  
NRPGSSYGNRNRDAGYFFSTASEYPIFEKFSSYDTGYTSQGS LGHEGLTSFSSSLAFDNG  
MDNYISVTTSDKIVGNRNINTKKIIESDQEREAEDNGELTFFLVNSVANEEGFAKECSWR  
TQSFNNYSPNSHSSKHVSQYTFVDNDEGGISWVTSNRDPPIFSAGVKEGGKRRKKRKEV  
QKKSTKRNC

>sp|P26358|DNMT1\_HUMAN DNA (cytosine-5)-methyltransferase 1 OS=Homo sapiens GN=DNMT1 PE=1  
SV=2

MPARTAPARVPTLAVPAISLPDDVRRRLKDLERDSLTEKECVKEKLNLLHEFLQTEIKNQ  
LCDLETKLRKEELSEEGYLAKVKSLLNKDLSLENGAHAYNREVNRENGNQRSEARRV

GMADANSPPKPLSKPRTPRRSKSDGEAKPEPSPSPRITRKSTRQTTITSHFAKGPARKRP  
QEESERAKSDESIKEEDKDQDEKRRRVTSRERVARPLPAEEPERAKSGTRTEKEEERDEK  
EEKRLRSQTKPTPKQLKEEPDREARAGVQADEDEDGDEKDEKKHRSQPKDLAAKRRPE  
EKEPEKVPNQISDEKDEDEKEEKKRRKTTPKPETEKKMARAKTMNSKTHPPKCIQCGQYL  
DDPDLKYGQHPDAVDEPQMLTNEKLSIFDANESGFESYEALPQHKLTCFSVYCKHGHLC  
PIDTGLIEKNIELFFSGSAKPIYDDDPGLEGGVNGKNLGPINWWITGFDGGEKALIGFS  
TSFAEYILMDPSPEYAPIFGLMQEKIYISKIVVEFLQSNDSSTYEDLINKIETTVPPSGL  
NLNRFTEDSLRLHAQFVVEQVESYDEAGDSDEQPIFLTPCMRDLIKLAGVTLGQRRAR  
RQTI RHSTREKDRGPTKATTTKL VYQIFDTFFAEQIEKDDREDKENAFKRRRCGVCEVCQ  
QPECCKACKCKDMVFGGSGRSKQACQERRCPNMAMKEADDDEEVDDNIPEMPSPKKMHQ  
GKKKKQKNRISWVGEAVKTDGKKSYYKKVCIDAETLEVGDVSVIPDDSSKPLYLARVT  
ALWEDSSNGQMFHAHWFAGTDTVLGATSDPLELFLVDECEDMQLSYIHSKVKVIYKAPS  
ENWAMEGGMDPESLLEGDDGKTYFYQLWYDQDYARFESPPKTQPTEDNKFKFCVSCARLA  
EMRQKEIPRVLEQLEDLDSRVLYSATKNGILYRVGDGVYLPPEAFTFNILKSSPVKRPR  
KEPVDEDLYPEHYRKYSDYIKGSNLDAPEPYRIGRIKEIFCPKKSNGRPNETDIKIRVVK  
FYRPENTHKSTPASYHADINLLYWSDEEAVVDFKAVQGRCTVEYGEDLPECVQVYSMGGP  
NRFYFLEAYNAKSKSFEDPPNHARSPGNKGKKGKKGKPKSQACEPSEPEIEIKLPKLR  
TLDVFGCGGLSEGFGHAGISDTLWAIEMWDPAAQAFRLNPGSTVFTEDCNILLKLVMA  
GETTNSRGQRLPQKGDVEMLCGGPPCQGFSGMNRFNSTYSKFKNSLVVSFLSYCDYYRP  
RFFLLENVRNFVSFKRSMVLKLTLRCLVRMGYQCTFGVLQAGQYGAQTRRRRAIILAAAP  
GEKLPFPEPLHVFAPRACQLSVVDDKKFVSNITRLSSGPFRTITVRDTMSDLPEVRNG  
ASALEISYNGEPQSWFQRQLRGAQYQPILRDHICKDMSALVAARMRHIPLAPGSDWRDLP  
NIEVRLSDGTMARKLRYTHDRKNRSGSSGALRGVCSCVEAGKACDPAARQFNTLIPWCL  
PHTGNRHNHWAGLYGRLEWDGFFSTTVTNPEPMGKQGRVLHPEQHRVSVRECARSQGFP  
DTYRLFGNILDKHRQVGNVPPPLAKAIGLEIKLCMLAKARESASAKIKEEEAAKD

>sp|Q9ULA0|DNPEP\_HUMAN Aspartyl aminopeptidase OS=Homo sapiens GN=DNPEP PE=1 SV=1

MQVAMNGKARKEAVQTAAKELLKFVNRSPPFHAHAECNRLLQAGFSELKETEKWNIKP  
ESKYFMTRNSSTIIAFAVGQYVPNGFSLIGAHTDSPCLRVKRRSRRSQVGFQQGVET  
YGGGIWSTWFDRLTLAGRVIVKPTSGRLEQQLVHVERPILRIPHLAIHLQRNINENFG  
PNTEMHLVPILATAIQEELEKGTPEPGPLNAVDERHHSVLSLLCAHLGLSPKDIVEMEL  
CLADTQPAVLGGAYDEFIFAPRLDNLHSCFCALQALIDSCAGPGSLATEPHVRMVTLYDN  
EEVGSESAQGAQSLLTELVLRRISASCQHPTAFEEAIPKSFMISADMAHAVHPNYLDKHE  
ENHRPLFHKGPVIKVNKQRYASNAVSEALIREVANKVKVPLQDLMVRNDTPCGTTIGPI  
LASRLGLRVLDLGSPLAMHSIREMACTGVLQTLTLFKGFFELFPSLSHNLVD

>sp|000115|DNS2A\_HUMAN Deoxyribonuclease-2-alpha OS=Homo sapiens GN=DNASE2 PE=1 SV=2

MIPLLLAALLCVPAGALTCYGDSGQPVDFVYKLPALRGSGEAAQRGLQYKYLDESSGG  
WRDGRALINSPEGAVGRSLQPLYSNTSQLAFLLYNDQPPQPSKAQDSSMRGHTKGVLLL  
DHDGGFWLVHVPNFPPPASSAAYSWPHSACTYGTLLCVSFPFAQFSKMGKQLTYTYPW  
VYNYQLEGIFAQEFPDLENVVKGHVVSQEPWNSSITLTSQAGAVFQSFQSKFGDDLYS  
GWLAAALGTNLQVQFWHKTGILPSNCSDIWQVLNVNQIAFPGPAGPSFNSTEDHSKWCV  
SPKGPWTCVGMNRNQEGEQGGGTLCALPALWKAQPLVKNYQPCNGMARKPSRAYKI

>sp|P49184|DNSL1\_HUMAN Deoxyribonuclease-1-like 1 OS=Homo sapiens GN=DNASE1L1 PE=1 SV=1

MHYPTALLFLILANGAQAFRICAFNAQRLTLAKVAREQVMDTLVRILARCDIMVLQEVVD  
SSGSAIPLLLRELNRFDGSGPYSTLSSPQLGRSTYMETYVYFYRSHKTQVLSSYVYNDED

DVFAREFVFAQFSLPSNLPSLVLVPLHTTPKAVEKELNALYDVFLVFSQHWQSKDVILL  
GDFNADCASLTKKRLDKLELRTEPGFHWVIADGEDTTVRASTHCTYDRVVLHGRCRSL  
HTAAAFDFPTSFQLTEEEALNISDHYVVEVELKLSQAHSVQPLSLTVLLLLSLLSPQLCP  
AA

>sp|Q13609|DNSL3\_HUMAN Deoxyribonuclease gamma OS=Homo sapiens GN=DNASE1L3 PE=1 SV=1

MSRELAPLLLLLSIHSALAMRICSFNRSFGESKQEDKNAMDVIVKVIKRCDIILVMEI  
KDSNNRICPILMEKLNRRNSRRGITYNYVISSRLGRNTYKEQYAFLYKEKLVSVKRSYHYH  
DYQDGDADVFSREPFVWFQSPHTAVKDFV I IPLHTTPETSVKEIDELVEVYTDVKHRWK  
AENFIFMGDFNAGCSYVPKKAWKNIRLRTDPRFVWLIGDQEDTTVKKSTNCAYDRIVLRG  
QEIVSSVVPKSNSVDFQKAYKLTETEEALDVSDHFPVEFKLQSSRAFTNSKKSVTLRKKT  
KSKRS

>sp|P13765|DOB\_HUMAN HLA class II histocompatibility antigen, DO beta chain OS=Homo sapiens GN=HLA-DOB PE=1 SV=1

MGSGWVPWVALLVNLTRLDSMTQGTDSPEDFVIQAKADCYFTNGTEKVQFVVRIFNL  
EEYVRFDSDVGMFVALTKLGQPDAEQWNSRLDLLERSRQAVDGVCRHNYRLGAPFTVGRK  
VQPEVTVPERTPLLHQHNLHCSVTGFYPGDIKIKWFLNGQEERAGVMSTGPIRNGDWT  
FQTVVMLEMTPELGHVYTCLVDHSSLLSPVSVEWRAQSEYSWRKMLSGIAAFLGLIFLL  
VGIVIQLRQAQGYVRTQMSGNEVSRAVLLPQSC

>sp|Q14184|DOC2B\_HUMAN Double C2-like domain-containing protein beta OS=Homo sapiens GN=DOC2B PE=1 SV=1

MTLRRRGEKATISIQEHMAIDVCPGPIRPIKQISDYFPRFPRGLPPDAGPRAAAPDAPA  
RPAVAGARRSPSDGAREDDVDQLFGAYGSSPGSPGSPARPPAKPPEDEPDADGYE  
SDDCTALGTLDFSLLYDQENNALHCTITKAKGLKPMDHNLADPYVKLHLLPGASKANKL  
RTKTLRNTLNPTWNETLTYYGITDEDMIRKTLRISVCDEDKFRHNEFIGETRVPLKKLP  
NHTKTFNICLEKQLPVDKTEDKSLEERGRILISLKYSSQKQGLLVGIVRCAHLAAMDANG  
YSDPYVKTYLRPDVDKSKHKHTAVKKKTLNPEFNEEFCYEIKHGDLAKKSLVTVWDYDI  
GKSNDFIGGVVLGIHAKGERLKHWFDCLNKDKRIERWHTLTSELPGAVLSD

>sp|Q14185|DOCK1\_HUMAN Dedicator of cytokinesis protein 1 OS=Homo sapiens GN=DOCK1 PE=1 SV=2

MTRWVPTKREEKYGVAFYNYDARGADELSLQIGDTVHILETYEGWYRGYTLRKKSKKGIF  
PASYIHLKEAIVEGKGQHETVIPGDLPLIQEVTTTLREWSTIWRQLYVQDNREMFRRVH  
MIYDLIEWRSQILSGTLPQDELKELKKVTAKIDYGNRILDLVVRDEDNILDPELTS  
TISLFRACHEIASKQVEERLQEEKSQKQNIIDINRQAKFAATPSLALFVNLKNVCKIGEDA  
EVLMSLYDPVESKFISENYLVRWSSSGLPKDIDRLHNLRAVFTDLGSKDLKREKISFVCQ  
IVRVGRMELRDNNTRKLTSGLRPFVAVMDVTDIINGKVDEDEKQHFIPFQPVAGENDF  
LQTVINKVIAAKEVNHHKQGLWVTLKLLPGDIHQIRKEFPHLVDRTTAVARKTGPEIIM  
PGDVRNDIYVTVLQGDGDKSKTTAKNVEVTVSVYDEDEGKRLEHVIFPGAGDEAISEYKS  
VIYYQVKQPRWFETVKVAIPIEDVNRSHLRFTFRHRSSQDSKDKSEKIFALAFVKLMRYD  
GTTLRDGEHDLIVYKAEAKKLEDAATYLSLPSTKAELEEKGHSATGKSMQSLGCTISKD  
SFQISTLVCSTKLQNVDDLGLLKWSNTSLLQQNLRLQMKVDGGEVVKFLQDTLDALFN  
IMMENSESETFDTLVFDALVFIIGLIADRKFQHFNPVLETYIKKHFSATLAYTKLTKVLK  
NYVDGAEPGVNEQLYKAMKALESIFKFIVRSRILFNQLYENKGEADFVESLLQLFRSIN  
DMMSSMSDQTVRVKGAALKYLPITVNDVKLVFDPKELSKMFTFILNVPMLLTIQKLYC  
LIEIVHSDLFTQHDCREILLPMMTDQLKYHLERQEDLEACCQLLSHILEVLYRKDVGPTQ

RHVQIIMEKLLRTVNRVTVISMGRDSELIGNFVACMTAILRQMEDYHYAHLIKTFGKMRTD  
VVDFLMETFIMFKNLIGKNVYPFDWVIMNMVQNKVFLRAINQYADMLNKKFLDQANFELQ  
LWNNYFHLAVAFLTQESLQLENFSSAKRAKILNKYGDMRRQIGFEIRDMWYNLGGHKIKF  
IPEMVGPILEMTLIPETELRKATIPIFFDMMQCEFHSTRSFQMFENEIITKLDHEVEGGR  
GDEQYKVLFDKILLEHCRKHKYLAKTGETFVKLVVRLMERLLDYRTIMHDENKENRMSCT  
VNVLNIFYKEIEREEMYIRYLYKLCDLHKECDNYTEAAYTLLLHAKLLKWSERVEDVCAHLTQ  
RDGYQATTQGGQKEQLYQEIIHYFDKGKMWEEAIALGKELAEQYENEMFDYEQLSELLKK  
QAQFYENIVKVIIRPKPDYFAVGGYGGFPTFLRGKVFIRGKEYERREDFEARLLTQFPN  
AEKMKTTSPPGDDIKNSPGQYIQCFIVKPKLDLPPKFHRPVSEQIVSFYRVNEVQRFEYS  
RPIRKGKPNPDNEFANMWIERTIYTTAYKLPGILRWFEVKSVMVEISPLENAIETMQLT  
NDKINSMVQQHLDDPSLPINPLSMLLNGIVDPAVMGGFANYEKAFFTDTRYLQEHPEAHEK  
IEKLDLIAWQIPFLAEGIRIHGDKVTEALRPFHERMEACFKQLKEKVEKEYGVRIMPSS  
LDDRRGSRPRSMVRSFTMPSSSRPLSVASVSSLSSDSTPSRPGSDGFALEPLLPKKMHSR  
SQDKLDKDDLEKEKKDKKKEKRNKSKHQEIFEKEFKPTDISLQQSEAVILSETISPLRPQR  
PKSQVMNVIGSERRFSVSPSSSQQTPPPVTPRAKLSFSMQSSLELNGMTGADVADVPP  
PLPLKGSVADYGNLMENQDLLGSPTPPPPPHQRHLPPPLPSKTPPPPPKTTTRKQASVD  
SGIVQ

>sp|Q92608|DOCK2\_HUMAN Dedicator of cytokinesis protein 2 OS=Homo sapiens GN=DOCK2 PE=1  
SV=2

MAPWRKADKERHGVAIYNFQGGGAPQLSLQIGDVVRIQETCGDWYRGYLIKHKMLQGIFP  
KSFIHIKEVTVEKRRNTENIIPAEIPLAQEVTTLWEWGSIWKQLYVASKKERFLQVQSM  
MYDLMEWRSQLLSGTLPKDELKELKQKVTISKIDYGNKILELDLIVRDEDGNILDPDNTSV  
ISLFHAHEEATDKITERIKEEMSKDQPDYAMYSRISSSPTHSLYVFNRFVCRIGEDAEL  
FMSLYDPNKQTVISENYLVRWGSRGFPKEIEMLNKVVFTDLGNKDLNRDKIYLICQIV  
RVGKMDLKDGTGAKCTQGLRRPFGVAVMDITDIKGAESDEEKQHFIPFHPVTAENDFL  
HSLLGKVIASKGDSGGQGLWVTMKMLVGDIQIRKDYPHLVDRTTVARKLGFPEIIMPG  
DVRNDIYITLLQGDFDKYNKTTQRNVEVIMCVAEDGKTLPAICVGAGDKPMNEYRSVV  
YYQVKQPRWMETVKVAVPIEDMQRIHLRFMRHRSSLESKDKEKNFAMSYYVKMKEDGT  
TLHDGFHDLVVLKGDSSKMEDASAYLTLPSTYRHHVENKGATLSRSSSVGGLSVSSRDVF  
SISTLVCSTKLTQNVGLLGLLKWRMPQLLENLEKLKIVDGEEVVKFLQDTLDALFNIM  
MEHSQSDEYDILVFDALIIYIIGLIADRFQHFNTVLEAYIQQHFSATLAYKKLMTVLKTY  
LDTSSRGEQCEPILRTLKALEYVFKFIVRSRTLFSQLYEGKEQMEFEESMRRLFESINNL  
MKSQYKTTILLQVAALKYIPSVLHDVEMVFDKLLSQLLYEFYTCIPPVKLQKQVQSMN  
EIVQSNLFFKKQECRDILLPVITKELKELLEQKDDMQHQVLERKYCVELLNSILEVLSYQD  
AAFTYHHIQEIMVQLLRTVNRVTITMGRDHILISHFVACMTAILNQMGDQHYSFYIETFQ  
TSSELVDFLMETFIMFKDLIGKNVYPGDWMAMSMVQNRVFLRAINKFAETMNQKFLEHTN  
FEFQLWNNYFHLAVAFITQDSLQLEQFSHAKYNKILNKYGDMRRLIGFSIRDMWYKLGQN  
KICFIPGMVGPILEMTLIPAEELRKATIPIFFDMMMLCEYQRSGDFKKFENEIILKLDHEV  
EGGRGDEQYMQLLLESILMECAAHPTIAKSVENFVNLVKGLEKLLDYRGVMTDESKDNR  
MSCTVNLLNIFYKDNREEMYIRYLYKLRDLHLDCDNYTEAAYTLLHTWLLKWSDEQCAS  
QVMQTGQHPQTHRQLKETLYETIIGYFDKGKMWEEAISLCKELAEQYEMEIFDYELLSQ  
NLIQAKFYESIMKILRPKPDYFAVGGYGGFPSFLRNKVFIRGKEYERREDFQMQLMT  
QFPNAEKMNTTSAPGDDVKNAPGGYIQCFIVQPVLDHPRFKNKPVPDQIINFYKSNYVQ  
RFHYSRPVRRGTVPENEFASMWIERTSFVTAYKLPGILRWFEVHMSQTTISPLENAIE

TMSTANEKILMMINQYQSDETLPINPLSMLLNGIVDPAVMGGFAKYEKAFFTEEYVRDHP  
EDQDKLTHLKDLIAWQIPFLGAGIKIHEKRVSDNLRPFHDMEECFKNLKMKEVEKEYGVR  
EMPFDDDRVRGRPRSMRLSYRQMSIISLASMNSDCSTPSKPTSESFDELASPKTPRVEQ  
EETISPGSTLPEVKLRRSKKRTKRSSVVFADKAAAESDLKRLSRKHEFMSDTNLSEHAA  
IPLKASVLSQMSFASQSMPTIPALALSVAGIPGLDEANTSPRLSQTFLQLSDGDKKTLTR  
KKVNQFFKTMLASKSAEEGQKIPDSLSTD

>sp|O60496|DOK2\_HUMAN Docking protein 2 OS=Homo sapiens GN=DOK2 PE=1 SV=2

MGDGAVKQGFLYLQQQTGKKWRRFGASLYGGSDCALARLELQEGPEKPRRCEAARKVI  
RLSDCLRVAEAGGEASSPRDTSAFFLETKERLYLLAAPAAERGDWVQAICLLAFPGQRKE  
LSGPEGKQSRPCMEENELYSSAVTVGPHKEFAVTMRPTEASERCHLRGSYTLRAGESALE  
LWGGPEPGTQLYDWPYRFLRRFGRDKVTFSEAGRRCVSGEGNFEFETRQGNEIFLALAE  
AISAQKNAAPATPQPQPATIPASLPRPDSYSPRPHDSLPPSPPTTPVPAPRPRGQEGEYA  
VPFDAVARSLGKNFRGILAVPPQLLADPLYDSIEETLPPRPDHIYDEPEGVAALSLYDSP  
QEPRGEAWRRQATADRDPAQLQHVQPAGQDFSASGWQPGTEYDNVVLKKGPK

>sp|Q9P104|DOK5\_HUMAN Docking protein 5 OS=Homo sapiens GN=DOK5 PE=1 SV=2

MASNFNDIVKQGYVIRSRRLGIYQRCWLVFKKASSKGPKRLEKFSDEAAAYFRCYHKVT  
ELNNVKNVARLPKSTKKHAIIGIYFNDDTSKTFACESDLEADEWCKVLQMECVGTRINDIS  
LGEPDLLATGVEREQSERFNVYLMPSPNLDVHGEALQITYEYICLWDVQNPVKLISWP  
LSALRRYGRDITWTFEAGRMCEGTGGLFIFQTRDGEAIYQKVHSAALAIAEQHERLLQS  
VKNSMLQMKMSERAASLSTMVPLPRSAWQHITRQHSTGQLYRLQDVSSPLKLHRTETFP  
AYRSEH

>sp|Q9UPQ8|DOLK\_HUMAN Dolichol kinase OS=Homo sapiens GN=DOLK PE=1 SV=1

MTRECPSPAPGPGAPLSGSVLAEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW  
DRLLQGSASFQFRMSANSGLLPASMVMPLGLVMKERCQTAGNPFFERFGIVVAATGMA  
VALFSSVLALGITRPVTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI  
LLYLLPRCFTPGALLVLGGISFVLNQLIKRSLTLVESQGDVPDFFLLVVVGMVLMGIF  
FSTLFFVMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL  
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY  
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW  
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI  
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA

>sp|Q9UKG1|DP13A\_HUMAN DCC-interacting protein 13-alpha OS=Homo sapiens GN=APPL1 PE=1 SV=1

MPGIDKLPIEETLEDSPQTRSLLGVFEEATAISNYMNQLYQAMHRIYDAQNELSAATHL  
TSKLLKEYEKQRFPLGGDEVMSSTLQQFSKVIDELSSCHAVLSTQLADAMFPITQFKE  
RDLKEILTLKEVFQIASNDHDAAINRYSRLSKKRENDKVKEYETEDVYTSRKKQHQTMMH  
YFCALNTLQYKKKIALLEPLLGYMQAQISFFKMGSENLEQLEEFANIGTSVQNVRRREM  
DSDIETMQQTIEDLEVASDPLYVPDPDPTKFPVNRNLTRKAGYLNARNKTGLVSSTWDRQ  
FYFTQGGNLMSEQARGDVAGGLAMDIDNCVMAVDCEDRRYCFQITSFDGKKSSILQAESK  
KDHEEWICTINNISKQIYLSNPETAAARVNQSALEAVTPSPSFQQRHESLRPAAGQSRP  
PTARTSSSGSLGSESTNLAALSLDSLVPDTPIQFDIISPVCEDQPGQAKAFGGGRRTN  
PFGESGGSTKSETEDSILHQLFIVRFLGSMEVKSDDHDPVVYETMRQILAARAIHNIFRM  
TESHLLVTCDCLKLIDPQTQVTRLTFLPCVVLYATHQENKRLFGFVLRITSSGRSESNLS  
SVCYIFESNNEGEKICDSVGLAKQIALHAELDRRASEKQKEIERVKEKQKQKELNKQKQIE



KDLEEQSRLIAASSRPNQASSEGGFVVLSSSQSEESDLGEGGKKRESEA

>sp|P20036|DPA1\_HUMAN HLA class II histocompatibility antigen, DP alpha 1 chain OS=Homo sapiens GN=HLA-DPA1 PE=1 SV=1

MRPEDRMFHIRAVILRALSLAFLLSLRGAGAIKADHVSTYAAFVQTHRPTGEFMFEFDED  
EMFYVDLDKKETVWHLEEFQAFSFEAQGGLANIAILNNNLNTLIQRSNHTQATNDPPEV  
TVFPKEPVELGQPNTLICHIDKFFPPVLNVTWLCNGELVTEGVAESLFLPRTDYSFHKFH  
YLTFVPSAEDFYDCRVEHWGLDQPLLKHWEAQEPIQMPETTETVLCALGLVLGLVGIIVG  
TVLIIKSLRSGHDPRAQGTL

>sp|P04440|DPB1\_HUMAN HLA class II histocompatibility antigen, DP beta 1 chain OS=Homo sapiens GN=HLA-DPB1 PE=1 SV=1

MMVLQVSAAPRTVALTALLMVLTSVVQGRATPENYLFQGRQECYAFNGTQRFLERYIYN  
REEFARFDSVDGFEFRAVTELGRPAAEYWNSQKDILEEKRAVPDRMCRHNYELGGPMTLQR  
RVQPRVNVSPSKKGPLQHNNLLVCHVTDFYPGSIQVRWFLNGQEETAGVVSTNLIRNGDW  
TFQILVMLEMTPQQGDVYTQVEHTSLDSPVTVEWKAQSDSARSKTLTGAGGFVLGLIIC  
GVGIFMHRRSKKVQRGSA

>sp|O15263|DFB4A\_HUMAN Beta-defensin 4A OS=Homo sapiens GN=DFB4A PE=1 SV=1

MRVLYLLFSFLFIFLMLPGVFGGIGDPVTCLKSGAICHVPFCPRRYKQIGTCGLPGTKC  
CKKP

>sp|O00273|DFFA\_HUMAN DNA fragmentation factor subunit alpha OS=Homo sapiens GN=DFFA PE=1 SV=1

MEVTGDAGVPESGEIRTLKPCLLRRNYSREQHGVAASCLEDLSKACDILAIDKSLTPVT  
LVLAEDGTIVDDDDYFLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVDETDSGA  
GLKWKVNARQLKEDLSSIIILLSEEDLQMLVDAPCSDLAQELRQSCATVQRLQHTLQQVLD  
QREEVRQSKQLLQYLQALEKEGSLLSKQEESKAAFGEEVDAVDTGISRETSSDVALASH  
ILTALREKQAPELSSQDLELVTKEDPKALAVALNWDIKKTETVQEACERELALRLQQT  
QSLHSLRSISASKASPPGDLQNPKRARQDPT

>sp|Q14129|DGCR6\_HUMAN Protein DGCR6 OS=Homo sapiens GN=DGCR6 PE=1 SV=3

MERYAGALEEVADGARQQRHYQLLSALQSLVKELPSSFQQRLSYTTLSDLALALLDGTV  
FEIVQGLLEIQHLTEKSLYNQRLRLQNEHRVLRQALRQKHQEAQQACRPHNLPVLQAAQQ  
RELEASEHRIREEQRAMDQKIVLELDRKVADQQSTLEKAGVAGFYVTNPQELMLQMNLL  
ELIRKLQQRGCWAGKAALGLGGPWQLPAAQCDQKQSPVPP

>sp|P52429|DGKE\_HUMAN Diacylglycerol kinase epsilon OS=Homo sapiens GN=DGKE PE=1 SV=1

MEAERRPAPGSPSEGLFADGHLILWTLCSVLLPVFIFWCSLQRSRRQLHRRDIFRKSKH  
GWRDSDLFSQPTYCCVCAQHILQGAFCDCCLRVDEGCLRKADKRFQCKEIMLKNDTKVL  
DAMPHHWIRGNVPLCSYCMVCKQCGCQPKLCDYRCIWCQKTVDHCEMKNSLKNEKCDFG  
EFKNLIIPPSYLTINQMRKDKKTDYEVASKLGKQWTPLIILANSRSGTNMGEGLLGEF  
RILLNPVQVFDVTKTPPIKALQLCTLLPYYSARVLVCGGDGTVGWVLDAVDDMKIKGQEK  
YIPQVAVLPLGTGNDLSNTLGWGTGYAGEIPVAQVLRNVMEADGIKLDRWKVQVTNKGYY  
NLRKPKEFTMNNYFSVGPDALMALNFHAHREKAPSLFSSRILNKAVYLFYGTGDCLVQEC  
KDLNKKVELELDGERVALPSLEGIIVLNIGYWGGCRLWEGMGDETYPLARHDDGLLEV  
GVYGSFHCACIQVKLANPFRIGQAHTVRLILKCSMMPMQVDGEPWAQGPCTVTITHKTHA  
MMLYFSGEQTDDDISSTSDQEDIKATE

>sp|Q16760|DGKD\_HUMAN Diacylglycerol kinase delta OS=Homo sapiens GN=DGKD PE=1 SV=4

MAAAGAPPPGPPQPPPPPPPESSDSEPEAEPGSPQKLIRKVSTSGQIRQKTIIEGML

TKQNNFQRSKRRYFKLRGRTLYYAKTAKSIIFDEVLDASVAESSTKNVNSFTVITP  
CRKLILCADNRKEMEDWIAALKTVQNRHFPTQYSMDHFSGMHNWYACSHARPTYCNVC  
REALSGVTSHGLSCEVCKFKAHKRCAVRATNNCKWTTLASIGKDIIEDADGIAMPHQWLE  
GNLPVSAKCTVCDKTCGSVLRLQDWRCWLCKAMVHTSCKESLLTKCPLGLCKVSVIPPTA  
LNSIDSDGFWKASCPPSCTSPLLVFVNSKSGDNQGVKFLRRFKQLLNPAQVFDLMNGGPH  
LGLRFLQKFDTFRILVCGGDGSGVWVLEIDSLNLHKQCQLGVLPPLGTGNDLARVLGWGS  
ACDDDTQLPQILEKLERASTKMLDRWSVMAYEAKLPRQASSSTVTEDFSEDSEVQQILFY  
EDSVA AHL SKILTS DQHSVV ISSAKVLCETVKDFVARVGKAYEKT TESSESEVM AKKCS  
VLKEKLD SLLKTLDESQASSSLPNPPPTIAEEAEDGDGSGSICGSTGDR LVASACPARP  
QIFRPREQLMLRANSLKKAIRQIIIEHTEKAVDEQNAQTQE QEGFVLGLSESEEKMDHRVC  
PPLSHSESGFVPGKRSQRKVSKSPCEKLISKGSLSLGSSASLPPQPGSRDGLPALNTKIL  
YPNVRAGMSGSLPGGSVISRLLINADPFNSEPETLEYYTEKVMNNYFGIGLDAKISLDF  
NNKRDEHPEKCRSRTKNMMWYGVLTGKELLHRTYKNLEQKVILLECDGRPIPLPSLQGI AV  
LNIPSYAGGTNFWGGTKEDDTFAAPSFDDKILEVVAVFGSMQMAVSRVIRLQHHRIAQCR  
TVKISILGDEGPVQVDGEAWVPPGYIRIVHKNRAQTLTRDRAFESTLKSWE DKQKCEL  
PRPPSCSLHPEMLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAHAVNASSKSM  
DRVYGKPRTTEGLNCSFVLEMVNNFRALRSETELLSSGKMALQLDPPQKEQLGSALAEMD  
RQLRRLADTPWLQCSAEPGDEESVMLDLAKRSRSGKFR LVTKFKEKNNKNKEAHSSLGA  
PVHLWGTEEVAAWLEHLSLCEYKDIFTRHDIRGSELLHLERRDLKDLGVTKVGHMKRILC  
GIKELSR SAPAVEA

>sp|075912|DGKI\_HUMAN Diacylglycerol kinase iota OS=Homo sapiens GN=DGKI PE=1 SV=1

MDAAGRGCHLLPLPAARGPARAPAAAAAASPPGPCSGAACAPSAAAGAGAMNPSSSAG  
EEKGATGGSSSSSGAGSCCLGAEGGADPRGAGSAAAAGAAALDEPAAAGQKEKDEALEE  
KLRNLTRFKQVSYRKAISRAGLQHLAPAHPLSLPVANGPAKEPRATLDWSENAVNGEHLW  
LETNVSGDLCYLGEENCQVRFAKSALRRKCAVCKIVVHTACIEQLEKINFRCKPTFREGG  
SRSPRENFVRHHVHRRRQEGKCKQCGKGFQKFSFHSKEIVAISCSWCKQAFHNKVTCTF  
MLHHIEEPCSLGAHAIVPPTWIIKVKKPQNSLKASNRKKKRTSFKRKASKRGMEQENK  
GRPFV IKP ISSPLMKPLL VFVNPKSGGNQGTKVLQMF MWYLNPRQVFDLSQEGPKDALEL  
YRKVPNLRLACGGDGTGVWILSILDELQLSPQPPVGVLPLGTGNDLARTLNWGGGYTDE  
PVSKILCQVEDGTVVQLDRWNLHVERNPDLPPEELEDGVCKLPLNVFN NYFSLGFDAHVT  
LEFHESREANPEKFNSRFRNKM FYAGAAFSDFLQRSSRDL SKHVKVVC DGTDLTPKI QEL  
KFQCI VFLNIPRYCAGTMPWGNPGDHHDFEPQRHDDGYIEVIGFTMASLAALQVGGHGER  
LHQCREVMLLTYKSIPMQVDGEPCLAPAMIRISLRNQANMVQKSKRRTSMPLNDPQSV  
PDRLRIRVNKISLQDYEGFHYDKEKLREASISDWLRTIAGELVQSFGA IPLGLVVRGDC  
DLETCRMYIDRLQEDLQSVSSGSQRVHYQDHETSFPRLSAQRLSPRWCFLDDRSQEHLH  
FVMEISQDEIFILDPDMVVSQAGTPPGMPDLVVEQASGISDWWNPALRKRMLS DSGLGM  
IAPYYEDSDLKDLSHSRVLQSPVSSSEDHAILQAVIAGDLMKLI ESYKNGGSLLIQGPDHC  
SLLHYAAKTNGEIVKYILDHG PSELLDMADSETGETALHKAACQRNRAVCQLLVDAGAS  
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>sp|Q13574|DGKZ\_HUMAN Diacylglycerol kinase zeta OS=Homo sapiens GN=DGKZ PE=1 SV=3

METFFRRHFRGKVPGPGEQQRPSSVGLPTGKARRRSPAGQASSSLAQRRRSSAQLQGCL  
LSCGVRAQGSSRRRSSTVPPSCNPRFIVDKVLT PQT TVGAQLLGAPLLLTGLVGMNEEE  
GVQEDVVAEASSAIQPGTKTPGPPPPRGAQPLLPLPRYLRRASSHLLPADAVYDHALWGL  
HGYRRLSQRPSGQHPPGPGRRASGTTAGTMLPTRVRPLSRRRQVALRRKAAGPQAWSA

LLAKAITKSLQHLAPPPPTPGAPCSESERQIRSTVDWSESATYGEHIWFETNVSGDFCY  
VGEQYCVARMLKSVSRKCAACKIVVHTPCIEQLEKINFRCKPSFRESGSRNVREPTFVR  
HHWVHRRRQDQKCRHCGKGFQKQFTFHSKEIVAISCSWCKQAYHSKVSCFMLQQIEEPCS  
LGVHAAVVIPTWILRARRPQNTLKASKKKKRASFKRKSCKGPEEGRWRPFIIRPTPSP  
LMKPLLVFVNPKSGGNQGAIIQSFLWYLNPRQVFDLSQGGPKAELEMYRKVHNLRLILAC  
GGDGTVGWILSTLDQLRLKPPPPVAILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEG  
NVVQLDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNYYFSLGFDHVTLEFHESREANP  
EKFNSTRFRNKMFIYAGTAFSDFLMGSSKDLAKHIRVVCDGMDLTPKIQDLKPQCVVFLNIP  
RYCAGTMPWGHGPEHHDFEPQRHDDGYLEVIGFTMTSLAALQVGGHGERLTQCREVLT  
SKAIPVQVDGEPCKLAASRIIRIALRNQATMVQKAKRRSAAPLHSDQQPVPEQLRIQVSRV  
SMHDYEALHYDKEQLKEASVPLGTVVVPGDSLELCRAHIERLQQEPDGAGAKSPTCQKL  
SPKWCFLDATTASRFYRIDRAQEHLNVYTEIAQDEIYILDPELLGASARPDLPPTSP  
TSPCSPTPRSLQGAAPPQGEELIEAAKRNDCKLQELHRAGGDLHRDEQSRTLLHHAV  
STGSKDVVRYLLDHAPPEILDAVEENGETCLHQAALGQRTICHYIVEAGASLMKTDQGG  
DTPRQAEKAQDTELAAYLENRQHYQMIQREDQETAV

>sp|P37059|DHB2\_HUMAN Estradiol 17-beta-dehydrogenase 2 OS=Homo sapiens GN=HSD17B2 PE=1 SV=1

MSTFFSDTAWICLAVPTVLCGTVFCKYKKSSGQLWSWMVCLAGLCAVCLLILSPFWGLIL  
FSVSCFLMYTYLSGQELLPVDQKAVLVTGGDCGLGHALCKYLDLGFTVFAGVLNENGP  
AEELRRTCSPLSVLQMDITKPVQIKDAYSKVAAMLQDRGLWAVINNAGVLGFPTDGELL  
LMTDYKQCMVNFQFTEVTCTFLPLLRSKSGRLVNVSSMGGGAPMERLASYGSSKAAVT  
MFSSVMRELSKWKIKVASIQGGFLTNIAGTSDKWEKLEKDILDHLP AEVQEDYGGDYI  
LAQRNLLLINSKDFSPVLRDIQHAILAKSPFAYYTPGKGAYLWICLAHYLP  
YFAKRHFGQDKPMPRALRMPNYKKKAT

>sp|P56937|DHB7\_HUMAN 3-keto-steroid reductase OS=Homo sapiens GN=HSD17B7 PE=1 SV=1

MRKVVLITGASSIGLALCKRLLAEDDELHLCLACRNMSKAEAVCAALLASHPTAEVTIV  
QVDVSNLQSVFRASKELKQRFQRLDCIYLNAGIMPNPQLNIKALFFGLFSRKVIHMFSTA  
EGLLTQGDKITADGLQEVFETNVFGHFIILIRELEPLLCHSDNPSQLIWTSSRSARKSNFS  
LEDQFQHSKGKEPYSSSKYATDLLSVALNRNFNQGLYSNVACPGTALTNLTGILPPFIW  
TLLMPAILLLRFFANAFTLTPYNGTEALVWLFHQKPESLNPLIKYLSATTGFRNYIMTQ  
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>sp|Q14562|DHX8\_HUMAN ATP-dependent RNA helicase DHX8 OS=Homo sapiens GN=DHX8 PE=1 SV=1

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TTFDTFKASLVKNGAEFTDSLISNLLRLIQTMRPPAKPSTSKDPVVKPKTEKEKLKELFP  
VLCQPDNPSVRTMLDEDDVKVAVDVLKEALMPAAGQEKQDAEHRDRTKKKRSRSR  
DRNRDRDRDRERNRDRDHKRRHRSRSRSRSTRERNKVKSRYSRSRSQSPPKDRKDRDK  
YGERNLDRWRDKHVRPPPEEPTIGDIYNGKVTSIMQFGCFVQLEGLRKRWEGLVHISEL  
RREGVANVADVSKGQRVKVKVLSFTGKTSLSMKDVDQETGEDLNPNRRNLVGETNE  
ETSMRNPDRPHTLSLVSAPEVEDDSLERKRLTRISDPEKWEIKQMIAANVLSKEEFPDFD  
EETGILPKVDDEEDEDLEIELVEEPPFLRGHTKQSMDSPIKIVKNPDGSLQAAMMQS  
ALAKERRELKQAQREEMDSIPMGLNKHWDPLPDAEGRQIAANMRGIGMMPNDIPEWKK  
HAFGGNKASYGKKTQMSILEQRESLPYKLKEQLVQAVHDNQILIVIGETGSGKTTQITQ  
YLAEAGYTSRGKIGCTQPRRVAAMSVAKRVSEEFGCCLGQEVGYTIRFEDCTSPETVIKY  
MTDGMLLRECLIDPDLTQYAIIMLDEAHERTIHTDVLFGLLKKTQKRQDMKLIIVTSATL

DAVKFSQYFYEAIFTIPGRTPVEILYTKPETDYLDASLITVMQIHLTEPPGDILVFL  
TGQEEIDTACEILYERMKSLGPDVPELIILPVYSALPSEMQTRIFDPAPPGSRKVVIATN  
IAETSLTIDGIYYVDPGFVKQKVYNSKTGIDQLVVTPISSQAQAKQRAGRAGRTGPGKCY  
RLYTERAYRDEMLTTNPVPIQRTNLASTVLSLKAMGINDLLSDFMDAPPMETLITAMEQ  
LYTLGALDDEGLLTRLGRRMAEFLEPMLCKMLIMSVHLGCSEMLTIVSMLSVQNVFYR  
PKDKQALADQKKAKFHQTEGDHLTLLAVYNSWKNNKFSNPWCYENFIQARSLRRAQDIRK  
QMLGIMDRHKLDVVSCGKSTVRVQKAICSGFFRNAAKKDPQEGYRTLIDQQVVYIHPSSA  
LFNRQPEWVVYHELVLTTKEYMREVTTIDPRWLVEFAPAFFKVS DPTKLSKQKKQQRLEP  
LYNRYEEPNAWRISRAFRRR

>sp|Q9UPY3|DICER\_HUMAN Endoribonuclease Dicer OS=Homo sapiens GN=DICER1 PE=1 SV=3

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IVCLNTGSGKTFIAVLLTKELSYQIRGDFSRNGKRTVFLVNSANQVAQQVSAVRTHSDLK  
VGEYSNLEVNASWTKERWNQEFTKHQVLIMTCYVALNVLKNGYLSLSDINLLVFDECHLA  
ILDHPYREIMKLCENCSPSCRILGLTASILNGKCDPEELEEKIQKLEKILKSNAETATDL  
VVLDRYTSQPCEIIVDCGPFTDRSGLYERLLMELEEALNFINDCNISVHSKERDSTLISK  
QILSDCRAVLVVLGPWCADKVAGMMVRELQKYIKHEQEELHRKFLFTDTFLRKIHALCE  
EHFSPASLDLKFVTPKVIKLEILRKYKPYERQQFESVEWYNNRNQDNYVSWSDSEDDDE  
DEEIEEKEKPETNFPSPFTNILCGIIFVERRYTAVVLNRLIKEAGKQDPELAYISSNFIT  
GHGIGKNQPRNKQMEAEFRKQEEVLRKFRAHETNLLIATSIVEEGVDIPKCNLVVRFDLP  
TEYRSYVQSKGRARAPISNYIMLADTDKIKSFEEDLKYKAEKILRNKCSKSVDTGETD  
IDPVMDDDDVFPYVLRPDDGGPRVTINTAIGHINRYCARLPSPDPTHAPKCRTPRELDP  
GTFYSTLYLPINSPLRASIVGPPMSCVRLAERVVALICCEKLHKIGELDDHLMVPGKETV  
KYEEELDLHDEEETSVPGRPGSTKRRQCYPKAIPECLRDSYPRPDQPCYLYVIGMVLTP  
LPDELNFRRRKLYPPEDTTRCFGILTAKPIPIPHFPVYTRSGEVTISIELKKSGFMLS  
QMLELITRLHQYIFSHILRLEKPALEFKPTDADSAYCVLPLNVVNDSSSLDIDFKFMEDI  
EKSEARIGIPSTKYTKETPFVFKLEDYQDAV IIPRYRNFQPHRFYVADVYTDLTPLSKF  
PSPEYETFAEYYKTKYNLDLTNLNQPLLDVHTSSRLNLLTPRHLNQKGKALPLSSAEKR  
KAKWESLQNKQILVPELCAIHPIPASLWRKAVCLPSILYRLHCLLTAEELRAQTASDAGV  
GVRSLPADFRYPNLDGFWKKSIDSKSFISISNSSSAENDNYCKHSTIVPENAAHQGANRT  
SSLENHDQMSVNCRTLLSESPGKLHVEVSADLTAINGLSYNQNLANGSYDLANRDFCQGN  
QLNYYKQEI PVQPTTSYSIQNLYSYENQPQPSDECTLLSNKYLDGNANKSTSDGSPVMAV  
MPGTTDTIQVLKGRMDSEQSPSIGYSSRTLGNPGLILQALTLNASDGFNLERLEMLGD  
SFLKHAITTYLFCYTPDAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPVNW  
LPPGYVVNQKSNTDKWEKDEMTCDCMLANGKLDDEYEEEEEEEEESLMWRAPKEEADYED  
DFLEYDQEHIRFIDNMLMGSGAFVKKISLSPFSTDSAYEWKMPKKSSLGSMFSSDFED  
FDYSSWDAMCYLDPSKAVEEDDFVVGFWNPSEENCGVDTGKQSI SYDLHTEQCIADKSI  
DCVEALLGCYLTSCGERAAQLFLCSLGLKVLVPVIRKTDREKALCPTRENFNSSQKNLSVS  
CAAASVASSRSSVLKDSEYGCLKIPPRCMFDHPDADKTLNHLISGFENFEKKINYRFKNK  
AYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYELITKHLIEDPRQHSPGVLTDLRSALV  
NNTIFASLAVKYDYHKYFKA VSPELFHV IDDFVQFQLEKNEMQGMDELRRSEEDDEEKEE  
DIEVPKAMGDI FESLAGAIYMSGMSLETVWQVYYPMMRPLIEKFSANVPRSPVRELLEM  
EPETAKFSPAERTYDGKVRVTVEVVGKGFKG VGRSYRIAKSAAARRALRSLKANQPQVP  
NS

>sp|Q8TBM8|DJB14\_HUMAN DnaJ homolog subfamily B member 14 OS=Homo sapiens GN=DNAJB14 PE=1 SV=1

MEGNRDEAEKCEIAREALNAGNREKAQRFLQKAELYPLPSARALLEIIMKNGSTAGNS  
PHCRKPSGSGDQSKPNCTKDSTSGSGEGGKGYTKDQVDGVL SINKCKNYEVLGVTKDAG  
DEDLKKAYRKLALKFHPDKNHAPGATDAFKKIGNAYAVLSNPEKRKQYDLTGNEEQACNH  
QNNGRFNFHRGCEADITPEDLFNIFFGGGFSGSVHSFNSGRAGYSQQHQHRHSGHEREE  
ERGDGGFSVFIQLMPIIVLILVSLLSQLMVSNPPLYPRSGTGQTIKMQTENLGVVVYV  
NKDFKNEYKGMLLQKVEKSVEEDYVTNIRNNCWKERQQKTDMQYAAKVYRDDRLRRKADA  
LSMDNCKELERLTSLYKGG

>sp|Q8N4W6|DJC22\_HUMAN DnaJ homolog subfamily C member 22 OS=Homo sapiens GN=DNAJC22 PE=2 SV=1

MAKGLLVITYALWAVGGPAGLHHLYLGRD SHALLWMLTLGGGGLGWLWEFWKLPSFVAQAN  
RAQQQRQSPRGVTPPLSPIRFAAQVIVGIYFGLVALISLSSMVNFYIVALPLAVGLGVLL  
VAVGNQTSDFKNTLGSAFLTSPIFYGRPIAILPISVAASITAQRHRRYKALVASEPLSV  
RLYRLGLAYLAFTGPLAYSALCNTAATLSYVAETFGSFLNWF SFFPLLGRLEMFVLLLPY  
RIWRLLMGETGFNSSCFQEWA KLYEFVHSFQDEKRQLAYQVLGLSEGATNEEIHRSYQEL  
VKVWHPDHNL DQTEEAQRHFLEIQAAYEVL SQPRKPWGSRR

>sp|Q6P3W2|DJC24\_HUMAN DnaJ homolog subfamily C member 24 OS=Homo sapiens GN=DNAJC24 PE=1 SV=1

MAVEQMPKKDWYSILGADPSANISDLKQKYQKLILMYHPDKQSTDVPAGTVEECVQKFIE  
IDQAWKILGNEETKREYDLQRCEDDL RNVGPVDAQVYLEEMSWNEGDHSFYLSRCRGGKY  
SVSKDEAEVSLISCDTCSLIIELLYN

>sp|Q9NR61|DLL4\_HUMAN Delta-like protein 4 OS=Homo sapiens GN=DLL4 PE=1 SV=1

MAAASRSASG WALLLLVALWQRAAGSGVFQLQLQEFINERGV LASGRPCEPGCRTFFRV  
CLKHFQAVVSPGPCTFGTVSTPVLGTNSFAVRDDSSGGGRNPLQLPFNFTWPGTFSLIIE  
AWHAPGDDL RPEALPPDALISKIAIQGSLAVGQNWLLDEQTSTLTRLRYSYRVICSDNYY  
GDNCSRLCKKRNDHFGHYVCQPDGNLSCLPGWTGEYCQQPICLSGCHEQNGYCSKPAECL  
CRPGWQGRLCNECIPHNGCRHGTCTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATC  
SNSGQRSYTCTCRPGYTGVDCELELSECDSNPCRNGG SCKDQEDGYHCLCPPGYGLHCE  
HSTLSCADSPCFNGGSCRERNQGANYACECPPNFTGSNCEKKVDRCTSNPCANGGQCLNR  
GPSRMCRCRPGFTGT YCELHVSDCARNPCA HGGTCHDLENGLMCTCPAGFSGRCEVRTS  
IDACASSPCFN RATCYTDLSTDTFVCNCPYGFVGS RCEFPVGLPPSFPWVAVSLGVGLAV  
LLVLLGMVAVAVRQLRLRRPDDGSREAMNLSDFQKDNLIPAAQLKNTNQKKELEVDCGL  
DKSNCGKQQNHTLDYNLAPGLRG TMPGKFP HSDKSLGEKAPLRLHSEKPECRISAICS  
PRDSMYQSVCLISEERNECVIATEV

>sp|P56177|DLX1\_HUMAN Homeobox protein DLX-1 OS=Homo sapiens GN=DLX1 PE=2 SV=3

MTMTTMPESLNSPVSGKAVFMEFGPPNQMSPPMSHGHYSMHCLHSAGHSQPDGAYSSA  
SSFSRPLGYPIVNSVSSHASSPYISSVQSYPGSASLAQSRLEDPGADSEKSTVVEGGEVR  
FNGKGKKIRKPRTIYSSLQLALNRRFQQTQYLALPERAELAASLGLTQTQVKIWFQNK  
SKFKKLMKQGGAAL EGSALANGRALSAGSPVPVPGWNPNSSSGKSGGNAGSYIPSYSW  
YPSAHQEAMQQPQLM

>sp|Q92988|DLX4\_HUMAN Homeobox protein DLX-4 OS=Homo sapiens GN=DLX4 PE=1 SV=4

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EPANPGDSYLS CQQAALSQPLCGPAEHPQE LEADSEKPRLSPEPSERRPQAPAKKL RKP

RTIYSSLQLQHLNQRFQHTQYLALPERAQLAAQLGLTQTQVKIWFQNKRSKYKLLKQNS  
GGQEGDFPGRTFSVSPCSPPLPSLWDLPKAGTLPTSGYGNSFGAWYQHHSDDLASPQMM

>sp|Q9NPF5|DMAP1\_HUMAN DNA methyltransferase 1-associated protein 1 OS=Homo sapiens  
GN=DMAP1 PE=1 SV=1

MATGADVRDILELGGPEGDAASGTISKDI INPDKKSKSKSSETLTFKRPEGMHREYVAL  
LYSDKKDAPLLPSDTGQGYRTVKAKLGSKKVRPWKMPFTNPARKDGAMFFHWRRAEE  
GKDYPFARFNKTQVPVYSEQEYQLYLHDDAWTKAETDHLFDLSRRFDLRFVVIHTRYDH  
QQFKKRSVEDLKERYHICAKLANVRAVPGTDLKIPVFDAGHERRRKEQLERLYNRTPEQ  
VAEEYLLQELRKIEARKKEREKRSQDLQKLITAADTTAEQRRTERKAPKKKL PQKEAE  
KPAVPETAGIKFPDFKSAGVTLRSQRMKLPSSVGQKKIKALEQMELLEGLVELSPTPTEEL  
VHMFNELRSDLVLLYELKQACANCEYELQMLRHRHEALARAGVLGGPATPASGPGPASAE  
PAVTEPLGPDPKDTIIDVVGAPLTPNSRKRRESASSSSSVKKAKKP

>sp|Q14565|DMC1\_HUMAN Meiotic recombination protein DMC1/LIM15 homolog OS=Homo sapiens  
GN=DMC1 PE=1 SV=2

MKEDQVVAEPPGFQDEEESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALC  
NVKGLSEAKVDKIKEAANKLIEPGFLTAFEYSEKRKMVFHITTSQEFDKLLGGGIESMA  
ITEAFGEFRTGKTQLSHTLCVTAQLPGAGGYPGGKIIIFIDENTFRPDRLDIADRFNVD  
HDAVLNVLARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELA  
ERQQKLAQMLSRLQKISEEYNVAVFTNQMTADPGATMTFQADPKKPIGGHILAHASTTR  
ISLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE

>sp|Q5VZB9|DMRTA\_HUMAN Doublesex- and mab-3-related transcription factor A1 OS=Homo sapiens  
GN=DMRTA1 PE=2 SV=1

MERSQCGSRDRGVSGRPHLAPGLVVAAPPPSPALVPVSGMQVPPAFLRPPSLFLRAAAA  
AAAAAAATSGSGCAPPAGLESGVGAVGCGYPRTPKCARCRNHGVVSALKGHRFCRWRD  
CACAKCTLIAERQVMAAQVALRRQQAQEESEARGLQRLCSGLSWPPGGRASGGGGRAE  
NPQSTGGPAAGAALGLGALRQASGSATPAFEVFQQDYPEEKQEQKESKCESCQNGQEELI  
SKSHQLYLGSSSRNGVIGKQSIGSSISEYSNKPDSILSPHPGEQSGGEESPRSLSSSDL  
ESGNESEWVKDLTATKASLPTVSSRPDPLDILTKIFPNYRRSRLEGILRFCKGDVVQAI  
EQVLNGKEHKPDNRNLANSEELNTAFQRASSFSLAGIGFTLGNKSAFSPLOTTSASYG  
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>sp|Q5HYR2|DMRTC\_HUMAN Doublesex- and mab-3-related transcription factor C1 OS=Homo sapiens  
GN=DMRTC1 PE=2 SV=1

MAAPPKAPIRVRNLTIRAGALTGKENNMLQPETHIFTAPEEGSSQGALLLGQAPEPLSLP  
CTPVTLEQQLVSPSGDPHRAPALPSICSTLILQPCATLDPLLLQPQVPKVSQALVSAHS  
EWQRKLEAAEALLTLRNAQAPPDSISLHQPCNPPAPAGDKGFQPPSPSLRPRPASSISL  
PIGHLGCISLLS

>sp|Q9Y222|DMTF1\_HUMAN Cyclin-D-binding Myb-like transcription factor 1 OS=Homo sapiens  
GN=DMTF1 PE=1 SV=1

MSTVEEDSDTVTVETVNSVTLTQDTEGNLILHCPQNEADEIDSEDSIEPPHKRLCLSSSED  
DQSIDDSTPCISVVALPSENDQSFEVTMTATTEVADDEVTEGTVTQIQILQNEQLDEIS  
PLGNEEVSQVAFWTTKEDKDSLTKGHWKQGMWSKEEIDILMNNIERYLKARGIKDA  
TEIIFEMSKDERKDFYRTIAWGLNRPLFAVYRRVLRMYDDRNHVGYTPEEIEKLKELRI  
KHGNDWATIGAALGRSASSVKDRCLMKDTCNTGKWTEEEKRLAEVVHELTSTEPGDIV

TQGVSWAAVAERVGTRSEKQCRSKWLNLYLNWKQSGGTEWTKEDEINLILRIAELDVADEN  
DINWDLAEGWSSVRSPQWLRKWWTIKRQIANHKDVSPVLIKGLKQLHENQKNNPTLL  
ENKSGSGVPNSNTNSSVQHVIQIRVARLEDNTAISSSPMAALQIPVQITHVSSADSPATVD  
SETITLNSGTLQTFEILPSFHLQPTGTPGYLLQTSSSQGLPLTLTASPTVTLTAAAPAS  
PEQIIVHALSPEHLLNTSDNVTVQCHTPRVI IQTVATEDITSSISQAELTVDSDIQSSDF  
PEPPDALEADTFPDEIHHPKMTVEPSFNDAHVSKFSDQNSTELMNSVMVRTEEEISDTDL  
KQEEPSDLASAYVTEGLESPITIEEQVDQTIIDETILIVSPHGFIIQASVIDTESVLPL  
TTLTDPIHQHHEESNIIGSSLGSPVSEDSKDVEDLVNCH

>sp|Q9Y485|DMXL1\_HUMAN DmX-like protein 1 OS=Homo sapiens GN=DMXL1 PE=1 SV=3

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GCVDCSMQGGKIAASYGNVISIFEPVNLPKQKKNLELYSQWQKSGQFFLESIAHNITWDP  
TGSRLLTGSSYLQLWSNTNLEKPTEDENLNKTDLNFQDWKCIWHCKTASQVHLMKFSPDG  
EFFATAGKDDCLLVWYNVENWRTAVTSPDGSSEKQSQGEIDFSFVYLAHPRAVNGFSWR  
KTSKYMPRASVCNLLTCKKDNVCRLWVETFLPNDCLLYGGDCSHWTESINLTNNFKRNA  
SSKERVQNALEVNLRHFRGRRRSLALVAHTGYLPHQQDPHHVHRNTPLHANALCHFHA  
ASINPATDIPLLPSITSLSLNENEKTPGFVHVLNNKELHFTLSMEVFLQQLRKSFEQP  
SSEASVEDSNQADVKSDEETDDGVDDLKINPEKKELGCDKMPNSSFTSLSSAAIDHQIE  
VLLSEWSKNADMLFSIHPMDGSLLVHVDWLDEYQPGMFRQVQVSFVSRIPVAFPTGDAN  
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SKHADGSLNQWLVSAEESAFSTVLSISHKSRYCGHRFHLNDLACHSVLPLLLTSSHNA  
LRTPVDVNPEQPFDALEIECSLTQQNKSTVDVAFQDPSAVYSELILWRVDPVGPLSFSG  
GVSELARINSLHVSFAFSNVAWLPTLIPSYCLGAYCNSPSACFVASDGQYLRLYEAVIDAK  
KLLSELSNPEISKYVGEVFNIQSQTARPGCIIALDPITKLHGRKTQLLHVFEEDFILN  
NLEKKSLGKDSILSNAGSSPNGFSEKFYLIVIECTQDNRSLLHMWNHLKSIPLSLDEKV  
DTKLSEAVWQPEEHYSSSPEKILSPFSQKYQACRANLQSTSRLTLFSEMVSQELHLP  
VEIISIKPSAGHLSSSIYPACAPYLLATSCSDEKVRFWRCRVTDGESATSKNGKIDLA  
YIWEWPLLIEDGLQSNSSITVGRPVESCAHTNRLAVAYKQPASNSRSSQDFVMHVS  
FECESTGGSCWVLEQTIHLDELSTVLDSGISVDSNLVAYNKQDMYLSKENITSNTKHLV  
HLDWMSREDGSHILTVGIGSKLFMYGPLAGKVQDQTGKETLAFPLWESTKVPLSKFVLL  
RSVDLVSSVDGSPFPVSLSWVRDGIIVGMDCEMHVYCQWQPSSKQEPVITDSYSGSTP  
SITSLIKQSNSSSGLHPPKKTLTRSMTSLAQKICGKKTAFDPSVDMEDSGLFEAAHVLS  
PLPQYHPLQLLEMLDGKVRRAKAILSHLVKCTAGEVVALNEAESNHERRLSLTISASG  
STTRDPQAFNKAENTDYTEIDSVPLPLYALLAADDSCYSSLEKSSNESTLSKSNQLSK  
ESYDELFTQQLMTDTHMLETDEENTKPRVIDLSQYSPTYFGPEHAQVLSGHLHSSLPG  
LSRMEQMSLMALDTIATTSTDIGESRDRSQGGETLDECGLKFLAVRLHTFTTSLPAY  
RAQLLHQGLSTSHFAWAFHSVAEEELNMLPAMQKDDPTWSELAMGVGWVRNTRILRK  
CIEKVAKAIFYRKNPDAAIFYLAMKKAVIWGLYRAEKNTQFFGHNFEDERWRKA  
ALKNAFSLGKQRFESAAFFLAGCLRDAIEVCLEKLNDIQLALVIARLYESEFDTSAA  
YKSILRKKVLGIDSPVSELCSLNINMHDPFLRSMAYWILEDYSGALETLIKQPIREND  
QVLSASNPTVFNFYNYLRTHPLLRHFGSSDTFSTHMSLTGKSGLAGTINLSERRLFFT  
TASAHKAGCPMLALEVLSKMPKVIKTRPFYRASSFLDTSKDCSPSSPLKLDAREDKSS  
AVDWSQSLINGFGSSSEGSSEKQSNSTLSFDWSQPSVVFQDSDLELKWSDNDEENEDVP  
ISMKELKPLQRKTDKLLDDISSNYTESFSTLDENDLLNPSEDIIVQLKFRACKILTVE  
LRTLSTGYEIDGGKLRQLYHWEKEVIALQRTCDFCSDAEELQSAFGRNEDEFGLNEDA

EDLPHQTKVKQLRENFQEKRWLLKYQSLLRMFLSYCILHGSHGGGLASVRMELILLQE  
SQQETSEPLFSSPLSEQTSVPLLFACTANAKTVVANPLLHLSNLTHDILHAIINFDSPPH  
PDIQSNKVYVMTLAASLSACIYQCLCGSHNYSSFQTNQFTGMVYQTVLLPHRPSLKTGS  
LDEALTPNTSPAQWPGITCLIRLLNSSGEEAQSGLTVLLCEILTAVYLSLFIHGLATHSS  
NELFRIVAHLNEKMWSAVFGGGAHVPSKEQTHSKTLPVSSLVEEGEKQNKRFPSKMSC  
RESAPLTPSSAPVSQESLAVKEKFIPPELSIWDYFIAKPFLPSSQSRAEYDSEESLGSD  
DDNDDDDDLASDFHLQEHNSNSYSWSLMLAMVQLVLNNLKTFFPFAGHDLAELPVSS  
PLCHAVLKTLCWEQVLLRRLEIHGGPPQNYIASHTAEESLSAGPAILRHKALLEPTNTP  
FKSKHHLALSVKRLWQYLVKQEEIQETFIKNIFTKKRCLNEIEADLGYPGGKARIHKES  
DIITAFVANKANRNCIAIASSHDVQELDVSGILATQVYTWVDDDIETKGSSEDFLVIHA  
RDDLTAVQGTTPYTHSNPGTINMPWLGSTQTGRGASVMIKKAINNVRMTSHPTLPYYL  
TGAQDGSVRMFEWGHSSQITCFRSGGNSRVTRMRFNYQGNKFGIVDADGYLSLYQTNWKC  
CPVTGSMPPKPYLTWQCHNKTANDFVSVSSSLIATAGLSTDNRNVCLWDTLVAPANSLVH  
AFTCHDSGATVLAYAPKHQLLISGGRKGFTYVFDLCQRQQRQLFQSHDSPVKAVAVDPTE  
EYFVTGSAEGNIKIWSLSTFGLLHTFVSEHARQSIFRNIGTGMQIETGPANHIFSCGAD  
GTMKMRILPDQFSPLNEVLKNDVKFML

>sp|Q9UF47|DNJ5B\_HUMAN DnaJ homolog subfamily C member 5B OS=Homo sapiens GN=DNAJC5B PE=1  
SV=2

MACNIPNQRQRTLSTTGEALYEILGLHKGASNEEIKKTYRKLALKHHPDKNPDDPAATEK  
FKEINNAHAILTDISKRSIYDKYGSGLGYVAEQFGDENVNTYFMLSSWWAKALFVIVGLL  
TGCYFCCCLCCCCCGHCRPESSVPEEDFYVSPEDLEEQIKSDMEKDVFDPVFLQPTN  
ANEKTQLIKEGSRSYCTDS

>sp|P31689|DNJA1\_HUMAN DnaJ homolog subfamily A member 1 OS=Homo sapiens GN=DNAJA1 PE=1  
SV=2

MVKETYYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKK  
RELYDKGGEQAIKEGGAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVVHQLSVTLEDLYN  
GATRKLALQKNVICDKCEGRGGKKGAVECCPNCRGTMQIRIHQIGPMVQQIQSVCMEC  
QGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGGKITFHGEGDQEPGLEPGDII  
IVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI  
KCVLNEGMPYIRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQ  
VELVDFDPNQERRRHYNGEAYEDDEHHPRGGVQCQTS

>sp|P25685|DNJB1\_HUMAN DnaJ homolog subfamily B member 1 OS=Homo sapiens GN=DNAJB1 PE=1  
SV=4

MKGDDYYQTLGLARGASDEEIKRAYRRQALRYHPDKNKEPGAEEKFKEIAEAYDVLSDPRK  
REIFDRYGEEGLKSGSPSGSGGGANGTSFSYTFHGDPHAMFAEFFGGRNPFDTFFGQRN  
GEEGMDIDDPFSGFPMGMGGFTNVNFGRSRQAQEPARKKQDPPVTHDLRVSLLEEIYSGCT  
KKMKISHKRLNPDGKSIRNEDKILTIEVKKGWKEGTKITFPKEGDQTSNNIPADIVFVLK  
DKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRTIPVVFKDVIRPGMRKVPGE  
GLPLPKTPEKRGDLIEFEVIFPERIPQTSRTVLEQVLPI

>sp|Q9UBS3|DNJB9\_HUMAN DnaJ homolog subfamily B member 9 OS=Homo sapiens GN=DNAJB9 PE=1  
SV=1

MATPQSIFIFAICILMITELILASKSYDILGVPKSASERQIKKAFHKLAMKYHPDKNKS  
PDAAEKFREIAEAYETLSDANRRKEYDTLGHSAFTSGKGQRGSGSSFEQSFNFNFDLDFK  
DFGFFGQNQNTGSKKRFFENHFQTRQDGGSSRQRHHFQEFSGGGFLDDMFEDMEKMFSSFS



GFDSTNQHTVQTENRFHGSSKHCRTVTQRRGNMVTYTDSCGQ

>sp|Q99615|DNJC7\_HUMAN DnaJ homolog subfamily C member 7 OS=Homo sapiens GN=DNAJC7 PE=1 SV=2

MAAAAECDVMAATEPELLDDQEAKREAETFKEQGNAYYAKKDYNEAYNYTKAIDMCPK  
NASYYGNRAATLMLGRFREALGDAQSVRLDDSFVRGHLREGKCHLSLGNAMAACRSFQ  
RALELDHKNAQAQEFKNANAVMEYEKIAETDFEKRD FRKVVFCMDRALEFAPACHRFKI  
LKAEC LAM LGRYPEAQSVASDILRMDSTNADALYVRGLCLYYEDCIEKAVQFFVQALRMA  
PDHEKACIACRNAKALKAKKEDGNKAFKEGNYKLAYELYTEALGIDPNNIKTNAKLYCNR  
GTVNSKLRLDDAIEDCTNAVKLDDTYIKAYLRRACQYMDTEQYEEAVRDYEVYQTEKT  
KEHKQLLKNAQLELKSKRKDYKILGVDKNASEDEIKKAYRKRALMHHPDRHSGASAEV  
QKEEEKKFKEVGEAFTILSDPKKKTRYDSGGDLDEEGMNMGDFDPNNIFKAFFGGPGGFS  
FEASGPGNFFFQFG

>sp|O00429|DNM1L\_HUMAN Dynamin-1-like protein OS=Homo sapiens GN=DNM1L PE=1 SV=2

MEALIPVINKLQDVFNVTGADIIQLPQIVVGTQSSGKSSVLESVGRDLLPRGTGIVTR  
RPLILQLVHVSQEDKRKTTGEENGVEAEWGKFLHTKNKLYTDFDEIRQEIENETERISG  
NNKGSPEPIHLKIFSPNVNLTLDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSI  
ILAVTAANTDMATSEALKISREVPDGRRTLAVITKLDLMDAGTDAMDVLMGRVIPVKLG  
IIGVNRSQLDINNKSVTDSIRDEYAFLLQKKYPSLANRNGTKYLARTLNRLMHHIRDC  
LPELKTRINVLAQYQSLNSYGEVDDKSATLLQLITKFATEYCNITIEGTAKYIETSEL  
CGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFVPEVSFELLVKRQ  
IKRLEEPSRLCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLPVTN  
EMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAVSRDKSSKVPSAL  
APASQEPSPAASAEADGKL IQDSRRETKNVASGGGVGDGVQEPTTGNWRGMLKTSKAE  
LLAEKSKPIPIIMPASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSIFLIVRK  
NIQDSVPKAVMHFLNVHVKDTLQSELVGQLYKSSLLDDLLTESEDMAQRRKEAADMLKAL  
QGASQIIAEIRETHLW

>sp|O43598|DNPH1\_HUMAN 2'-deoxynucleoside 5'-phosphate N-hydrolase 1 OS=Homo sapiens GN=DNPH1 PE=1 SV=1

MAAAMVPGRSESWERGEPRPALYFCGSIRGGREDRTLYERIVSRLRRFGTVLTEHVAAA  
ELGARGEAAAGDRLIHEQDLEWLQQADVVAEVTQPSLGVGYELGRAVAFNKRILCLFR  
PQSGRVL SAMIRGAADGSRFQVWDYEEGEVEALLDRYFEADPPGQVAASPDPTT

>sp|Q99704|DOK1\_HUMAN Docking protein 1 OS=Homo sapiens GN=DOK1 PE=1 SV=1

MDGAVMEGPLFLQSQRFGTKRWRKTWAVLYASPHGVARLEFFDHKGSSSGGGRGSSRRL  
DCKVIRLAECVSVAPVTVETPPEPGATAFRDLTAQRSHLLAADAPSSAAWVQTLCRNAFP  
KGSWTLAPTDNPPKLSALEMLENSLYSPTWEGSQFWVTVQRTEAAERCGLHGSYVLRVEA  
ERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMFSFEAGRRCPSGPGTFTFQTAQGND  
IFQAVETAIHRKAQKGAGQGHVLRADSHEGEVAEGKLPSPPGQELLDSPPALYAEPL  
DSLRIAPCPSQDSLYSDPLDSTSAQAGEGVQRKKPLYWDLYEHAQQQLLKAKLTDPKEDP  
IYDEPEGLAPVPPQGLYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPL  
LAPKPQGFAPPEPGTATGSGIKSHNSALYSQVQKSGASGSWDCGLSRVGTDKTGKSEGS  
T

>sp|Q9H4A9|DPEP2\_HUMAN Dipeptidase 2 OS=Homo sapiens GN=DPEP2 PE=1 SV=2

MQPSGLEPGTGFRWPILLSLLLLLLLLQPVTCAYTTGPPRALTTLGAPRAHTMPGTYAP  
STTLSSPSTQGLQE QARALMRDFPLVDGHNDLPLVLRQVYQKGLQDVNLRNFSYGQTSLD

RLRDGLVGAQFWSAYVPCQTQDRDALRLTLEQIDLIIRMCASYSELELVTSAKALNDTQK  
LACLIGVEGGHSLDNSLSILPTFYMLGVRYLTLTHTCNTPWAESSAKGVHSFYNNISGLT  
DFGEKVVAEMNRLGMMVDLSHVSDAVARRALEVSQLAPVIFSHSAARGVCNSARNVPDDIL  
QLLKKNGGVVMVSLSMGVIQCNPNSANVSTVADHFDHIKAVIGSKFIGIGGDYDGAGKFPQ  
GLEDVSTYPVLEIELLSRGWSEELQGVLRGNLLRVFRQVEKVQEENKWSPLEDKFPDE  
QLSSSCHSDLSRLRQRQSLTSGQELTEIPIHWTAKLPAKWSVSESSPHMAPVLAVVATFP  
VLILWL

>sp|P06746|DPOLB\_HUMAN DNA polymerase beta OS=Homo sapiens GN=POLB PE=1 SV=3

MSKRKAPQETLNGGITDMLTELANFEKNVSAIHKYNAYRKAASVIAKYPHKIKSGAEAK  
KLPGVGTKIAEKIDEFLATGKLRKLEKIRQDDTSSINFLTRVSGIGPSAARKFVDEGIK  
TLEDLRKNEDKLNHHQRIGLKYFGDFEKRIPREEMLQMQDIVLNEVKKVDSEYIATVCGS  
FRRGAESSGDMVDLLTHPSFTSESTKQPKLLHQVVEQLQKVHFITDTLSKGETKFMGVCQ  
LPSKNDEKEYPHRRIDIRLIPKDQYYCGVLYFTGSDIFNKNMRAHALEKGFTINEYTIRP  
LGVTGVAGEPLPVDSEKDIFDYIQWKYREPKDRSE

>sp|Q9UGP5|DPOLL\_HUMAN DNA polymerase lambda OS=Homo sapiens GN=POLL PE=1 SV=1

MDPRGILKAFPKRQKIHADASSKVLAKIPRREEGEEAEWLSSLRAHVVRTGIGRARAEL  
FEKQIVQHGGQLCPAQGPVTHIVVDEGMDYERALLRLPQLPPGAQLVKSAWLSLCLQ  
ERRLDVDAGFSIFIPSRYLDHPQPSKAEQDASIPPGTHEALLQTALSPPPPTRPVSPQ  
KAKEAPNTQAQPISDDEASDGEETQVSAADLEALISGHYPTSLEGDCEPSPAPAVLDKWV  
CAQPSSQKATNHNHHITEKLEVLAKAYSVQGDKWALGYAKAINALKSFHKPVTSYQEAC  
SIPGIGKMAEKIIEILESGLRKLHDHISESVPLELFSNIWGAGTKTAQMWWYQQGFRSL  
EDIRSQASLTTQQAIGLKHYSDFLERMPREEATEIEQTVQKAAQAFNSGLLCVACGSYRR  
GKATCGDVDVLITHPDGRSHRGIFSRLDSLRLQEGFLTDDLVSQEENGQQQKYLGVCRLP  
GPGRRHRRLDIIVVPYSEFACALLYFTGSAHFNRSMRALAKTKGMSLSEHALSTAVVRNT  
HGCKVGPGRVLPPTTEKDVFRLLGLPYREPAERDW

>sp|Q9UHL4|DPP2\_HUMAN Dipeptidyl peptidase 2 OS=Homo sapiens GN=DPP7 PE=1 SV=3

MGSAPWAPVLLLALGLRGLQAGARRAPDPGFQERFFQQRDLHFNFERFGNKTFPQRFLVS  
DRFWVRGEGPIFFYTGNEDVWAFANNSAFVAELAAERGALLVFAEHRYYGKSLPFGAQS  
TQRGHTELLTVEQALADFAELLRALRRDLGAQDAPAIAFGGSYGGMLSAYLRMKYPHLVA  
GALAASAPVLAVAGLDSNQFFRDVTADFEGQSPKCTQGVREAFRQIKDLFLQGAYDTRV  
WEFGTCQPLSDEKDLTQLFMFARNAFTVLAMMDYPYPTDFLGPLPANPVKVGCDRLLSEA  
QRITGLRALAGLVYNASGSEHCYDIYRLYHSCADPTGCGTGPDARAWDYQACTEINLTFA  
SNNVTDMFPDLPFTDELRLQRYCLDTWGVWPRPDWLLTSFWGGDLRAASNIIFSNGNLDPW  
AGGGIRRNLSASVIAVTIQGGAHHLDLRASHPEDPASVVEARKLEATIIGEWVKAARREQ  
QPALRGGPRLSL

>sp|A6NNS2|DRS7C\_HUMAN Dehydrogenase/reductase SDR family member 7C OS=Homo sapiens  
GN=DHRS7C PE=2 SV=3

MGVMAMLMPLLLLISGLLFIYQEVSRWLSKSAVQNKVVVITDAISGLGKECARVFHTG  
GARLVLCGKNWERLENLYDALISVADPSKQTFTPKLVLLDLSDISCPDVAKEVLDYGC  
VDILINNASVKVKGPAHKISLELDKKIMDANYFGPITLTKALLPNMISRRTGQIVLVNNI  
QGKFGIPFRTTYAASKHAALGFFDCLRAEVEEYDVVISTVSPTFIRSYHVYPEQGNWEAS  
IWKFFFRKLTGYGHPVEVAEEVMRTVRRKKQEVFMANPIPKAAVYVRTFFPEFFFAVVAC  
GVKEKLNVP EEG

>sp|Q99259|DCE1\_HUMAN Glutamate decarboxylase 1 OS=Homo sapiens GN=GAD1 PE=1 SV=1

MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEK  
SRLVSAFKERQSSKNLLSCENSDDRARFRRRTETDFSNFLFARDLLPAKNGEEQTVQFLLEV  
VDILLNVYRKTFDRSTKVLDFHHPHQLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGV  
RTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMFTYEIAPVFLMEQITLKKMREIVGWS  
SKDGDGIFSPGGAISNMYSIMAARYKYFPEVKTGMAAVPKLVLTSEQSHYSIKKAGAA  
LGFGTDNVLKICNERGKIIPADFEAKILEAKQKGYVPFYVNATAGTTVYGAFDPIQEIA  
DICEKYNLWLHVDAAWGGLLMSRKHRHKLNGIERANSVTWNPHKMMGVLLQCSAILVKE  
KGILQGCNQMCAGYLFQPDQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGTVGFENQI  
NKCLELAELYAKIKNREEFEMVFNGEPEHTNVCFWYIPQSLRGVPDSPQRREKLHKVAP  
KIKALMMESGTTMVGYQPQGDKANFFRMVISNPAATQSDIDFLIEEIERLGQDL

>sp|Q05329|DCE2\_HUMAN Glutamate decarboxylase 2 OS=Homo sapiens GN=GAD2 PE=1 SV=1

MASPGSGFWSFGSEDSGSDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGG  
SQPPRAAARKAACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLAFLQDVMNILLQ  
YVVKSFDRSTKVIDFHYPNELLQEYNWELADQPQNLEEILMHCQTTLYAIKTGHPRYFN  
QLSTGLDMVGLAADWLTSTANTNMFTYEIAPVFLLEYVTLKKMREIIGWPGSGDGIFS  
PGGAISNMAMMIARFKMFPEVKEKGMAALPRLIAFTSEHSHFSLKKGAAALGIGTDSVI  
LIKCDERGMIPSDLERRIEAKQKGFVPFLVSATAGTTVYGAFDPLLAVADICKYKIW  
MHVDAAWGGLLMSRKHKWKLSGVERANSVTWNPHKMMGVPLQCSALLVREEGLMQNCNQ  
MHASYLFQQDKHYDLSYDTGDKALQCGRHVDVFKLWLMWRAKGTTFEAHVDKCLELAEY  
LYNI IKNREGYEMVFDGKPQHTNVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMY  
GTTMVSYPQLGDKVNFFRMVISNPAATHQDIDFLIEEIERLGQDL

>sp|Q14154|DELE\_HUMAN Death ligand signal enhancer OS=Homo sapiens GN=KIAA0141 PE=1 SV=3

MWRPLGGLGRALPRTLGPSSLWRVTPKSTSPDGPQTTSSTLLVPVPNLDRSGPHGPGTSGG  
PRSHGWKDAFQWMSSRVSPNTLWDAISWGTLAVLALQLARQIHFAQSLPAGPQAVEHCSW  
HSPLDRFFSSPLWHPCSSLRQHILPSPDGPAPRHTGLREPLRGQEEASAQPRNFSHNSLR  
GARPQDPSEEGPDGFGLHASSIESEAKPAQPQTGEKEQDKSKTLSLEEAVTSIQQLF  
QLSVSIAFNFLGTENMKSGDHTAAFSYFQKAAARGYSKAQYNAGLCHEHGRGTPRDISKA  
VLYYQLAASQGHSLAQYRYARCLLRDPASSWNPERQRAVSLKQAADSGLREAQAFGLVL  
FTKEPYLDEQRAVKYLWLAANNGDSQSRHYLGCYEKGLGVQRNLGEALRCYQQAALGN  
EAAQERLRALFSMGAAAPGPSDLTVTGLKSFSSPSLCSLNTLLAGTSRLPHASSTGNLGL  
LCRSGHLGASLEASSRAIPHPYPLERSVVRVRLGFG

>sp|Q8TEH3|DEN1A\_HUMAN DENN domain-containing protein 1A OS=Homo sapiens GN=DENND1A PE=1 SV=2

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SLTVSQVGQNFVFLTDIDSKRFGFCRLSSGAKSCFCILSYLPWFEVFKLLNILADYT  
TKRQENQWNELLETLHKLPIPDGVSVHLSVHSYFTVPDTRELPSIPENRNLTEYFVAVD  
VNNMLHLYASMLYERRILIICSKLSTLTACIHGSAAMLPMYQHVYIPVLPPLLDDYCC  
APMPYLIGIHLMEKVRNMAADDVVILNVDNTLETDFDDLQSLPNDVISSKNRLKKV  
STTTGDGVARAFLKAQAFFGSYRNALKIEPEEPI TFCEEA FVSHYRSGAMRQFLQNAQ  
LQLFKQFIDGRDLLNSGEGFSDVFEIEINMGEYAGSDKLYHQWLSTVRKGSAILNTVK  
TKANPAMKTVYKFAKDHA MG I KEVKNRLKQKDIAENGCAPTPEEQLPKTAPSPLVEAKD  
PKLREDRRPITVHFQVVRPPRHVVKRPKSNIAVEGRRTSVPSPEQPQPYRTLRESDSA  
GDEAESPEQQVRKSTGPVPAPPDRAASIDLLEDVFSNLDMEAALQPLGQAKSLEDLRAPK  
DLREQPGTFDYQRLDLGGSERSRGVTVALKLTHPYNKLWSLGQDDMAIPSKPPAASPEKP

SALLGNSLALPRRPQNRDSILNPSDKKEVPTPTLGSITIPRPQGRKTPELGIVPPPIPR  
PAKLQAAGAALGDVSERLQTDRRRAALSPGLLPGVVPQGPTTELLQPLSPGGAAGTSSD  
ALLALLDPLSTAWSGSTLPSRPATPNVATPFTPQFSFPPAGTPTFPQPPLNPFVPSMPA  
APPTLPLVSTPAGPFGAPPASLGPASFGLLSAGFCAPHRSQPNLSALSMNLFQGMP  
MGHTTSPLQPLGPPAVAPSRIRTLPLARSSARAAETKQGLALRPGDPPLPPRPPQGLEP  
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>sp|Q6P3S1|DEN1B\_HUMAN DENN domain-containing protein 1B OS=Homo sapiens GN=DENND1B PE=1  
SV=2

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SQNQVGQHFTFVLTDIESKQRFGFCRLTSGGTICLCILSYLPWFVYYKLLNTLADYLAK  
ELENDLNETLRSLYNHPVKANTPVNLSVNQEIFIACEQVLKDQPALVPHSYFIAPDVTG  
LPTIPESRNLTEYFVAVDVNNMLQLYASMLHERRIVIISKLSTLTACIHGSAALLYPMY  
WQHIYIPVLPPhLLDYCCAMPYILIGIHSSLIERVKNKSLEDVVMLNVDNTNTLESPFSDL  
NNLPSDVVSALKNKLLKKQSTATGDGVARAFLRAQAALFGSYRDALRYKPGEPIITFCEESF  
VKHRSSVMKQFLETAINLQLFKQFIDGRLAKLNAGRGFSDVFEEIITSGGFCGGNPRSQY  
QWVHTVKKGGALFNTAMTKATPAVRTAYKFAKNHAKLGLKEVKSKLKHKENEEDYGTCS  
SVQYTPVYKLNHEKGGNSEKRKLAQARLKRPLKSLDGALYDEDDDDIERASKLSSEDE  
EASAYLYESDDSVETRVKTPYSGEMDLLGEILDTLSTHSSDQGKLAAAKSLDFFRSMDDI  
DYKPTNKSNAPENNLAFLCGSGDQAEWNLGQDSDALHGKHLPPSPRKRVS SSGLTDSL  
FILKEENS NKHLGADNVSDPTSGLDFQLTSPEVSQTDKGKTEKRELSQISDDLIPGLG  
RHSSTFVPWEKEGKEAKETSEDIGLLHEVVS LCHMTSDFQQSLNISDKNTNGNQ

>sp|Q9ULE3|DEN2A\_HUMAN DENN domain-containing protein 2A OS=Homo sapiens GN=DENND2A PE=2  
SV=4

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TPAPSRRADGQEDYLPSSSTVERSSDGVRTQVTEAKNGMRPGTESTEKERNKGAVNVGGQ  
DPEPGQDLSQPEREVDPSWGRGREPRLGKLRFGNDPLSVLKQVKKLEQALKDGSAGLDPQ  
LPGTCYSPHCPPDKAEAGSTLPENLGGGSGSEVSQRVHPSDLEGREPTPELVEDRKGSCR  
RPWDRSLENVYRGSEGSPTKPFINPLPKPRRTFKHAGEGDKDGKPGIGFRKEKRNLPPLP  
SLPPPPLPSSPPSSVNRRLTGRQKSSADHRKSYEFEDLLQSSSESSRVDWYAQTKLGL  
TRTLSEENVYEDILDPPMKENPYEDIELHGRCLGKKCVLNFPASPTSSIPDTLTKQSLSK  
PAFFRQNSERNFKLLDTRKLSRDGTGSPSKISPPSTPSSPDDIFFNLGDPQNGRKKRKI  
PKLVLRIINAIYEVRRGKKRVKRLSQSMESNSGKVTDENESDSDTEEKLKAHSQRLNVK  
SRLKQAPRYPSLARELIEYQERQLFEYFVVVSLHKKQAGAAAYPELTQQFPLKLSRFSKF  
MREAEDQLKAIPQFCFPDAKDWPVQQTSETFSFVLGTGEDGSRRFGYCRRLPGGKGKR  
LPEVYCIVSRLGCFSLFSRILDEVKRRGISPALVQPLMRVMEAPFPALGKTILVKNFL  
PGSGTEVIELCRPLDSRLEHVD FESLSSLSVRHLVCVFASLLERRVIFIADKLSILSK  
CCHAMVALIYPFAWQHTYIPVLPAMVDIVCSPTPFLIGLLSSSLPLLRELPLEEVLVVD  
LVNSRFLRQMDEDSILPRKLQVALEHILEQRNELACEQDEGPLDGRHGPESSPLNEVVS  
EAFVRFFVEIVGHYSLFLTSGEREERTLQREAFRAVSSKSLRHFLEVMETQMFRGFIQ  
ERELRRQDAKGLFEVRAQEYLETLPSGEHSGVNKFLKGLGNKMKFLHKK

>sp|Q5TB30|DEP1A\_HUMAN DEP domain-containing protein 1A OS=Homo sapiens GN=DEPDC1 PE=1  
SV=2

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SNFGPEVTRQQTIQLLRKFLKNHVEDIKGRWGSENVDDNNQLFRFPATSPLKTLPRRYP

ELRKNNIENFSKDKDSIFKLRNLSRRTPKRHGLHLSQENGEKIKHEI INEDQENAIDNRE  
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DDLPHWVLSAMKCLANWPRSNDMNNPTYVGFERDVFRTIADYFLDLPEPLLTFEYYELFV  
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CSLEGIVDVPGNSSKEASSVFHQSFNPNEGQNNKLFLESKPKQEFLLNLHSEENIQKPF  
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GSTSVQTAMESELGESSATINKRLCKSTIELSENSLLPASSMLTGTQSLLQPHLVAID  
ALQLCCLLLPPPNNRRLQLLMRMSRMSQNVDMPKLHDAMGTRSLMIHTFSRCVLCACAE  
VDLDELLAGRLVSFLMDHHQEILQVPSYLQTAVEKHLDYLLKKGHIENPGDGLFAPLPTYS  
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>sp|Q96QD5|DEPD7\_HUMAN DEP domain-containing protein 7 OS=Homo sapiens GN=DEPDC7 PE=2  
SV=1

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RHNDCFVGSEAVDIVFSLIQNKYFGDVIDPRAKVVRVCQALMDYKVFVAVPTKVFQKDK  
KPTFEDSSCSLYRFTTIPNQDQLGKENKLYSPARYADALFKSSDIRSASLEDLWENLSL  
KPANSHPVNISATLSPQVINEVWQEETIGRLLQLVDLPLDLSLLKQEAQVPIPKRQS  
TMVNSSNYLDRGILKAYSDSQEDELWLSAAIDCLEYLPDQMVVEISRSFPEQPDRTDLVKE  
LLFDAIGRYSSREPLLNHLSDVHNGIAELLVNGKTEIALEATQLLLKLLDFQNREEFR  
LLYFMAVAANPSEFKLQKESDNRMVVKRIFSKAIVDNKNLSKGKTDLLVFLMDHQKDV  
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>sp|095661|DIRA3\_HUMAN GTP-binding protein Di-Ras3 OS=Homo sapiens GN=DIRAS3 PE=1 SV=1

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NFRHEYLP TIENTYCQLLGCSHGVL SLHITDSKSGDGNRALQRHVIARGHAFVLVSVTK  
KETLEELKAFYELICKIKGNNLHKFPIVLVGNKSDDTHREVALNDGATCAMEWNCAFMEI  
SAKTDVNVQELFHMLLNYKKKPTTGLQEPEKKSQMPNTTEKLLDKCIIM

>sp|Q5F1R6|DJC21\_HUMAN DnaJ homolog subfamily C member 21 OS=Homo sapiens GN=DNAJC21 PE=1  
SV=2

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ERAWYDNHREALLKGGFDGEYQDDSLDLRYFTVTCYSGYGDEKGFYTVYRNVFEMIAK  
EELESVLEEEVDFTFGDSQSDYDTVVHPFYAYWQSFCTQKNFAWKEEYDTRQASNRWE  
KRAKENKKIRDKARKEKNELVRQLVAFIRKRDKRVQAHKRLVEEQNAEKARKAEEMRR  
QQKLKQAKLVEQYREQSWMTMANLEKELQEMEARYEKEFGDGSDENEMEEHELKDEEDGK  
DSDEAEDAELYDDLYCPACDKSFKTEKAMKNHEKSKKHREMVALLKQQLEEEEENFSRPQ  
IDENPLDDNSEEEMEDAPKQKLSKKQKKKKQKPAQNYDDNFNVNGPGEGVKVDPEDTNLN  
QDSAKELEDSPQENSVTEIIKPCDDPKSEAKSVPKPGKKTCDMKKPVVRVPAEPQTSV  
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>sp|Q9H1X3|DJC25\_HUMAN DnaJ homolog subfamily C member 25 OS=Homo sapiens GN=DNAJC25 PE=1  
SV=1

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VPKYRIQATEIAKQQGLLKKAKEKGKNKKSKEEIRDEEENIIKNI I KSKIDIKGGYQKPKQ  
ICDLLLLFQIILAPFHLCSYIVWYCRWIYNFNIKGKEYGEEERLYIIRKSMKMSKSQFDSL  
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>sp|Q8TF09|DLRB2\_HUMAN Dynein light chain roadblock-type 2 OS=Homo sapiens GN=DYNLRB2  
PE=1 SV=1

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>sp|Q8TDJ6|DMXL2\_HUMAN DmX-like protein 2 OS=Homo sapiens GN=DMXL2 PE=1 SV=2

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RKTSKYMPRGSVCNVLLTSCHDGVCRLWAETLLPEDCLLGEQICETTSSIASLSHAGR  
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AASINPATDIPNVLGTAFNVDGNGGFVVHWNKEFHFTSSTEVMHQLRKLSDKQVD  
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SVPMPPLPTVLLDRKIETLLTEWNKNPDMLFTIHPVDGTFVLVHVKYLDEYNPGIFRQVQV  
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CFVASDGKNRLRYQAVVDARKLLDELSDPESSKLIGEVFNIVSQSTARPGCIIELDAIT  
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YGPAYFGQEHARVLSHLMHSSLPGLTRLEQMFLVALADTVATTSTELDES RDKSCSGRD  
TLDECGLRYLLAMRLHTCLLTSPLPYRVQLLHQGVSTCHFAWAFHSEAEELINMIPAI  
QRGDPQWSELAMGIGWVRNINTLRRCKIEKVAKASFQRNNDALDAALFYLSMKKKAVVW  
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EVEADLGYPGGKAKVIHKESDMIMAFSVNKCANEIVLASTHDVQELDVTSLACQSYIW  
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LWDTLISPGNSLIHGFTCHDHGATVLQYAPKQQLISGGRKGHVCIFDIRQRQLIHTFQA  
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>sp|P51530|DNA2\_HUMAN DNA replication ATP-dependent helicase/nuclease DNA2 OS=Homo sapiens GN=DNA2 PE=1 SV=3

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PAPEQVEKGGVSNVTEAKLIVFLTSIFVKAGCSPSDIGIIAPYRQQLKIINDLLARSIGM  
VEVNTVDKYQGRDKSIVLVSVFVRSNKDGTGVELLDWRRLNVAITRAKHLILLGCVPSSL  
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>sp|Q92874|DNSL2\_HUMAN Deoxyribonuclease-1-like 2 OS=Homo sapiens GN=DNASE1L2 PE=1 SV=1

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PEDVFSREPFVVKFSAPGTGERAPPLPSRRALTTPPLPAAQNLVLIPLHAAPHQAVAEI  
DALYDVYLDVIDKWGTDDMLFLGDFNADCSYVRAQDWAIRLSSEVFKWLIPDSADTTV  
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>sp|Q14183|DOC2A\_HUMAN Double C2-like domain-containing protein alpha OS=Homo sapiens GN=DOC2A PE=1 SV=5

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LAPPAALLGATTPEDGAEVDSYSDSDATALGTLEFDLLYDRASCTLHCSILRAKGLKPMDFNGLADPYVKLHLLPGACKANKLTKTKRNTLNPVWNEDLTYSGITDDDITHKVLRIAVCDEDKLSHNEFIGEIRVPLRRLKPSQKKHFNICLERQVPLASPSSMSAALRGISCYLKELEQAEQGGQLLEERGRILLSLSYSSRRRGLLVGILRCAHLAAMDVNGYSDPYVKTYLRPDVDKKSCHKTCVKKKTLNPEFNEEFFYEIELSTLATKTLLEVTVWDYDIGKSNDFIGGVS LGPGARGEARKHWS DCLQQPDAALERWHTLTSELPPAAGALSSA

>sp|Q8N1I0|DOCK4\_HUMAN Dedicator of cytokinesis protein 4 OS=Homo sapiens GN=DOCK4 PE=1 SV=3

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>sp|Q96N67|DOCK7\_HUMAN Dedicator of cytokinesis protein 7 OS=Homo sapiens GN=DOCK7 PE=1 SV=4

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>sp|Q8TEW6|DOK4\_HUMAN Docking protein 4 OS=Homo sapiens GN=DOK4 PE=1 SV=2

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>sp|Q9Y3R5|DOP2\_HUMAN Protein dopey-2 OS=Homo sapiens GN=DOPEY2 PE=1 SV=5

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FYTALWGSVLASPSIRLPASVFFVGHINRDAPGREQKMYLGTNHQLTVKSLRASLLDSNV  
LVQRNNLEIVLFFFFPYTCLDSNERAIPLLRSDIVRILSAATQTLLRRDMSLNRRLYAWL  
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SPARKNGGEWDVEKVVIDLGGREERREAFAAACHLLDCAFPVYLSEETEQLCATLF  
QLPGAGDSSFPSWLKSLMTICCCVTDCYLQNVAI STLLEVINHSQSLALVIEDKMKRYKS  
SGHNPPFGKLQMVTPPIAPGILKVIAEKTDIFYQVARVLWNQLNKETREHHVTCVELFY  
RLHCLAPTANICEDIICHALLDPDKGTRLEALFRFSVIWHLTREIQGSRVTSNRSFDRS  
LFVVLDLACTDGAIGAAAQGWLVRLSLGDVARILEPVLLLLLQPKTQRTSIHCLKQEN  
SADDLHRWFNRKKT SFREACAVPEPQESGSEHLPLSQFTTVDREAIWAEVEKEPEKYPL  
RGELSEEELPYVELPDRTAHGAPDSSEHTESADTSSCHTDSSENTSSFSSPSHDLQELSN  
EENCCAPIPMGGRAYPKRSALLAAFQSESFKAGAKLSLVRVDSDKTQASESFSSDEEADL  
ELQALTTSRLLKQQRERQEAVALFKHILLYLQPYDSRRVLYAFSVLEAVLKTNPKEFIE  
AVSRTSMDTSSTAHLNLSNLLARHQEALIGQSFYGLQTQVPNVCPHSLLELLTYLCL  
SFLRSYYPCLKVSHRDILGNRDVQVKSVEVLIRIMQLVSVAKSSEGKNVEFIHSLLR  
CKVQEFVLLSLSAMYSQKRYGLATAHHGRALPEDSLFEESLINLGQDQIWSEHPLQIE  
LLKLLQVLIVLEHHLGRAHEEAENQPDLSREWQRALNFQQAISALQYVQPHPLTSQGILLV  
SAVVRGLQPAYGYGMHPAWVSLVTHSLPYFGKSLGWTVPFVVQICKNLDDLKQYSES  
VKLSVSTTSKRENISPDYPLTLEGLTTISHFCLLEQANQNKKTMAAGDPANLRNARNAI  
LEELPRTVNTMALLWNVLRKEETQKRPVDLLGATKGSSSVYFKTTKTIRQKILDFLNPLT  
AHLGVQLTAAVAAVWSRKAQRHSHKMKIPTASASQLTLVDLVCALSTLQTDTLHLVKE  
VVKRPPQVKGDEKSPLVDIPVLQFCYAFQLRPLVPALQENFSSLLGVLKESVQLNLAPP  
GYFLLLSMLNDFVTRTPNLENKKDQKDLQEITQKILEAVGNIAGSSLEQTSWLSRNLEV  
KAVPLISRLLYYVFPYLRNHSAYNAPSFRAGALLSSLSGYAYTKRAWRKEVLEFLDPA  
FFQMDTSCVHWKSIIDHLLTHEKTMFKDLNMQSSSLKLFSSFEQKAMLLKRQAFVAVFSG  
ELDQYHLYLPLIQRRLTDNLRVGQTSIVAAQMFLFRVLLLRISPQHLTSLWPIMVSELI  
QTFTQLEEDLKDEDESLRSTNKVNRTKVSVPDANGPSVGEIPQSELILYLSACKFLDTAL  
SFPPDKMPLFQIYRWAFIPEVDTEGPAFLSDVEENHQECKPHTVRILELLKLKFGIEISS  
DEITMKSEFLLRQHSVSSIRQLMPFFMTLNGAFKTQRQLPADSPGTPFLDFPVTDSPRI  
LKQLEECIEYDFLEHPEC

>sp|P09172|DOPO\_HUMAN Dopamine beta-hydroxylase OS=Homo sapiens GN=DBH PE=1 SV=3

MPALSRWASLPGSMREAAFMYSTAVAI FLVILVAALQGSAPRESPLPYHIPLDPEGSLE  
LSWNVSYTQEA IHFQLLVRRLLKAGVLFGMSDRGELENADLVVLWTDGDTAYFADAWSDQK  
GQIHLDPPQDQYQLLQVQRTPEGLTLLFKRPFGTCDPKDYLI EDGTVHLVYGILEEPFRSL  
EAINGSLQMGRLQRVQLLKPNIPEPELPSDACTMEVQAPNIQIPSQETTYWCYIKELPKG  
FSRHHIIKYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFSGPCDSKMKPDRLNYCRHVLA

AWALGAKAFYYP EEAGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIRLYYTAKLRRF  
NAGIMELGLVYTPVMAIPPRETAFILTGCTDKCTQLALPPSGIHIFASQLHHTLTGRKV  
VTVLVRDGREWEIVNQDNHYSHPHFQEIIRMLKKVSVHPGDVLITSCYNTEDRELATVGG  
FGILEEMCVNYVHYYPQTQLELCKSAVDAGFLQKYFHLINRFNEDVCTCPQASVSQQFT  
SVPWNSFNRDVLKALYSFAPISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTQCPTSQ  
GRSPAGPTVVSIGGGKG

>sp|Q8TEK3|DOT1L\_HUMAN Histone-lysine N-methyltransferase, H3 lysine-79 specific OS=Homo sapiens GN=DOT1L PE=1 SV=2

MGEKLELRKSPVGAEPVYPWPLPVYDKHHDAHEIIETIRWVCEEIPDLKLAMENYVL  
IDYDTKSFESMQRCDKYNRAIDSIHQLWKGTTQPMKLNTRPSTGLLRHILQQVYNHSVT  
DPEKLNNEYPFSPEVYGETSFDLVAQMIDEIKMTDDDLFVDLGSVGQVVLQVAAATNCK  
HHYGV EKADIPAKYAETMDREFRKMWKYGGKHA EYTLERGDFLSEWRERIAN TSVIFV  
NNFAFGPEVDHQLKERFANMKEGGRI VSSKPFAPLNFRINSRNLSDIGTIMRVVELSPLK  
GSVSWTGKPVSYLHTIDRTILENYFSSLKNPKLREEQEAARRRQ QRESKSNAATPTKGP  
EGKVAGPADAPMDSGAE EEKAGAA TVKKPSPSKARKKKLNKKGRKMAGRKRGRPKMNTA  
NPERKPKKNQTALDALHAQTVSQTAASSPQDAYRSPHSPFYQLPPSVQRHSPNPLLVAPT  
PPALQKLLESFKIQYLFLAYTKTPQYKASLQELLGQEKEKNAQLLGAAQQLSHCQAQK  
EEIRRLFQQKLDLGVKALTYNDLIQAQKEISAHNQQLREQSEQLEQDNRALRGQSLQLL  
KARCEELQLDWATLSLEKLLKEKQALKSQISEKQRHCLELQISIVELEKSQRQQELLQLK  
SCVPPDDALSLHLRGKGALGRELEPDASRLHLELDCTKFSPLPHLSSMSPELSMNGQAAGY  
ELCGVLSRPSSKQNTPYLASPLDQEVVPCTPSHVGRPRLEKLSGLAAPDYTRLSPAKIV  
LRRHLSQDHTVPGRPAASELHSRAEHTKENGLPYQSPSPVPGSMKLS PQDPRPLSPGALQL  
AGEKSSEKGLRERAYGSSGELITSLPISIP LSTVQPNKLPVSIPLASVVLPSRAERARST  
PSPVLQPRDPSSTLEKQIGANAHGAGSRSLALAPAGFSYAGSVAISGALAGSPASLTPGA  
EPATLDESSSSGSLFATVGSRSTPQHPLLLAQPRNSLPASPAHQLSSSPRLGGAAQGPL  
PEASKGDLPSDSGFS DPESEAKRRIVFTITTGAGSAKQSPSSKHSPLTASARGDCVP SHG  
QDSRRRGRRKRASAGTPSLSAGVSPKRRALPSVAGLFTQPSGSPLNLSMVSINQPLEI  
TAISSPETS LKSSPVYQDHDQPPVLKKERPLSQTNGAHYSPLTSDEEPGSEDEPSSARI  
ERKIATISLESKSPPKTLENGGLAGRKPA PAGEPVNSSKWKSTFSPISDIGLAKSADSP  
LQASSALSQNSLFTFRPALEEPSADAKLAAHPRKGFPGSLSGADGLSPGTNPANGCTFGG  
GLAADLSLHFSFDGASLPHKGPEAAGLSSPLSFPSQRGKEGS DANPFLSKRQLDGLAGLK  
GEGSRGKEAGEGGLPLCGPTDKTPLL SGKAAKARDREVDLKNGHNLFI SAAAVPPGSLLS  
GPGLAPAASSAGGAASSAQTHRSFLGPFPPGPQFALGPMSLQANLGSVAGSSVLQSLFSS  
VPAAAGLVHVSSAATRLTNSHAMGSFSGVAGGTVGGVVFNHAVPSASAHPFGARVGRGAA  
CGSATLGPSPLQAAASASASSFQAPASVETRPPPPPPPPPPPLPPPAHLGRSPAGPPVLH  
APPPPNAA LPPPPTLLASNPEPALLQSLASLPPNQAFLPPTSAASLPPANASLSIKLTSL  
PHKGARPSFTVHHQLPRLALAAQAAPGIPQASATGPSAVWVSLGMPPPYAAHLSGVKPR

>sp|Q3MIW9|DPCR1\_HUMAN Diffuse panbronchiolitis critical region protein 1 OS=Homo sapiens  
GN=DPCR1 PE=2 SV=2

MAQPVHSLCSAFGLQCCLLFLLASWGAGATTQEQYQKTGELSTSDHIFPLTPGLVYSIPF  
DHIVLHSGQRPELPKSTEIHEQKRHCNTRHSKPTDKPTGNSKTI DHKSSTDNHEAPPT  
SEENSSNQGKDP MIRNQRSVDPADSTTT HKESAGKKHITPAPKSKINCRKSTTGKSTVTR  
KSDKTGRPLEKSMSTLDKTSTSSHKT TTSFHNSGNSQTKQKSTSFPEKITAASKTTYKTT  
GTPEESEKTEDSRRTVASDKLLTKTTKNIQETISANELTQSLAEPTEHGGRTANENNTPS

PAEPTENRERTANENKKTICTKGKNTPVPEKPTENLGNTTLTTETIKAPVKSTENPEKTA  
AVTKTIKPSVKVTGDKSLTTTSSHLNKTEVTHQVPTGSFTLITSRTKLSSITSEATGNES  
HPYLNKDGSQKGIHAGQMGENDSFPAWAIVIVVLVAVILLVFLGLIFLVSYMMRTRRTL  
TQNTQYNDAEDEGGPNSYPVYLMEQQNLGMGQIPSPR

>sp|Q9H2P9|DPH5\_HUMAN Diphthine methyl ester synthase OS=Homo sapiens GN=DPH5 PE=1 SV=2  
MLYLIGLGLDAKDITVKGLEVRRCSRVL EAYTSVLTVGKEALEEFYGRKLVVADREE  
VEQEADNILKDADISDVAFLVVGDPFGATTHSDLVLRATKLGIPYRVIHNASIMNAVGCC  
GLQLYKFGETVSIVFWTDTWRPESFFDKVKKNRQNGMHTLCLLDIKVKEQSLENLIKGRK  
IYEPPRYMSVNQAAQQLLEIVQNQRIRGEPAVTEETLCVGLARVGADDQKIAAGTLRQM  
CTVDLGEPLHSLIITGGSIHPEMEMLSLFSIPENSSESQSINGL

>sp|Q9BTV6|DPH7\_HUMAN Diphthine methyltransferase OS=Homo sapiens GN=DPH7 PE=1 SV=2  
MMGCFALQTVDELTA DSV EWCPLQGCRHLLACGT YQLRRPEDRPAGPQNKGGMEVKEPQ  
VRLGRLFLYSFNDNNSIHPLVEVQRKDTSAILDMKWCHIPVAGHALLGLADASGSIQLLR  
LVESEKSHVLEPLSSLALEEQCLALS LDWSTGKTGRAGDQPLKI ISSDSTGQLHLLMVNE  
TRPRLQKVASWQAHQFEAWIAAFNYWHPEIVYSGGDDGLLRGWDTRVPGKFLFTSKRHTM  
GVCSIQSSPHREHILATGSYDEHILLWDTRNMKQPLADTPVQGGVWRIKWHPFHHHLLLA  
ACMHSGFKILNCQKAMEERQEATVLTSH TLPDSL VYGADWSWLLFRSLQRAPSWSFPSNL  
GTKTADLKGASELPTPCHECREDNDGEGHARPQSGMKPLTEGMRKNGTWLQATAATTRDC  
GVNPEEADSAFSLLATCSFYDHALHLWEWEGN

>sp|O60762|DPM1\_HUMAN Dolichol-phosphate mannosyltransferase subunit 1 OS=Homo sapiens  
GN=DPM1 PE=1 SV=1  
MASLEVSRSRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSSEGINYEI  
IIIDGSPDGT RDVAEQLEKIYGS DRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDAD  
LSHHPKFIPEFIRKQKEGNFDIVSGTRYKGNGGVYGWDLKRKII SRGANFLTQILLRPGA  
SDLTGSFRLYRKEVLEK LIEKCVSKGYVFQMEMIVRARQLNYTIGEVPI SFVDRVYGESK  
LGGNEIVSFLKGLLTLFATT

>sp|P28325|CYTD\_HUMAN Cystatin-D OS=Homo sapiens GN=CST5 PE=1 SV=1  
MMWPMHTPLLLL TALMVAVAGSASAQSRTL AGGIHATDLNDKSVQCALDFAISEYNKVIN  
KDEYYSRPLQVMAAYQQIVGGVNYFFNVKFGRTTCTKSQPNLDNCPFNDQPKLKEEFCS  
FQINEVPWEDKISILNYKCRKV

>sp|Q8N104|D106A\_HUMAN Beta-defensin 106 OS=Homo sapiens GN=DEFB106A PE=1 SV=1  
MRTFLFLFAVLFFLTPAKNAFFDEKCNKLGKTKNNCGKNEELIALCQKSLKCCRTIQPC  
GSIID

>sp|POCZ25|D100S\_HUMAN Uncharacterized protein DNAH100S OS=Homo sapiens GN=DNAH100S PE=2  
SV=1  
MHSLPRSGSIRRTHSDTQATGWPPPQRIGDSPGPSAFLSCPPSLCGAAQTGDPVALPH  
GPEKWVWGGGLSPRNPHSWG IKAHGLRPPWAPRLERCMP ESEWAPWQPQLPCEPKWLGS  
RKSKPHRESGLRGGGPSRCAKRGTHSCGPRESGGPDTCHLPCH

>sp|A8MPP1|D11L8\_HUMAN Putative ATP-dependent RNA helicase DDX11-like protein 8 OS=Homo  
sapiens GN=DDX11L8 PE=1 SV=1  
MANETQKVGAIHFPPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALS  
WLRDFEQKKREEARLLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQK  
KEERDLVDRLKVEQARRKQREERLQQLQHRVQLKYAAKRLRQEEEEETENLLRLSREMLET  
GPEAERLEQLES GEEELVLA EYESDEEKKVASGHRVDEDEDDLEEEHITKIYHCSRTHSQ

LAQFVHEVKKSPFGKDVRLVSLGSRQNLVCNEDVRSLSVQLINDRCVDMQRSRHEKKKG  
AEEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYRSRLA  
IPAAKLVVLPYQMLLHAATRQAAGIRLQDQVVIIDEAHNLIDTITGMHSVEVSGSQLCQA  
HSQLLQYMERYGKRLKAKNLMYLKQILYLLEKFVAVLGGNKQNPNTQSLSQGTGTELKTI  
NDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQPKLAGFQQFLQSLQ  
PRTTEALAAPADESQASVPQPASPLMHIEGFLAALTANQDGRVILSRQGSLESTLKFL  
LLNPAVHFAQVVKECRAVVIAGGTMPVSDFRQQLACAGVEAERVVEFSCGHVIPPNDI  
PLVICSGISNQPLEFTFQKRDLPMMDDEVGRILCNLCGVVSGGVVCFSSYEYLRQVHAH  
WEKGGLLGRLAARKKIFQEPKSAHQVEQVLLAYSRCIQACGQERGQVTEALLSVVGGKM  
SEGINFSDNLGRCVVMVGMPFPNIRSAELQEKMAYLDQTLPRAPGQAPPGKALVENLCMK  
AVNQSIGRAIRHQKDFASIVLLDQRYARPPVLAKLPAWIRASVEVKATFGPAIAAVQKFH  
REKSASS

>sp|Q8N465|D2HDH\_HUMAN D-2-hydroxyglutarate dehydrogenase, mitochondrial OS=Homo sapiens  
GN=D2HGDH PE=1 SV=3

MLPRRPLAWPAWLLRGAPGAAGSWGPRVGPLARRGCCSAPGTPEVPLTRERYPVRRLPFS  
TVSKQDLAAFERIVPGGVTDPEALQAPNVDWLRTLRGCSKVLLRPRTSEEVSHILRHCH  
ERNLAVNPQGGNTGMVGGSVPVFDEIILSTARMNRVLSFHSVSGILVCQAGCVLEELSR  
VEERDFIMPLDLGAKGSCHIGGNVATNAGGLRFLRYGSLHGTVLGLEVLADGTVLDCLT  
SLRKDNTGYDLKQLFIGSEGTGIIITVSILCPPKPRAVNVAFLGCPGFAEVLQTFSTCK  
GMLGEILSAFEFMDAVCMQLVGRHLHLASPVQESPFYVLIETSGSNAGHDAEKLGHFLEH  
ALGSGLVTDGTMATDQRKVKMLWALRERITEALSRDGYVYKYDLSLPVERLYDIVTDLRA  
RLGPHAKHVVGYGHLGDGNLHLNVTAFAFSPSLAALEPHVYEWTAGQQGSVSAEHGVGF  
RKRDVLGYSKPPGALQLMQQLKALLDPKGILNPYKTLPSQA

>sp|Q10586|DBP\_HUMAN D site-binding protein OS=Homo sapiens GN=DBP PE=1 SV=1

MARPVSDRTPAPLLLGPGAGTPPGGALLGLRSLQGTSKPKEPASCLLKEKERKAALPA  
ATTPGPGETAGPADAPAGAVVGGSPRGRPGVPAPGLLAPLLWERTLPFGDVEYVDLD  
AFLLEHGLPPSPPPPGPSPEPSPARTPAPSPGPGSCGSASPRSSPGHAPARAALGTASG  
HRAGLTSRDTPSPVDPDTVEVLMTFEPDPADLALSSIPGHETFDPRRHRFSEEELKPQPI  
MKKARKIQVPEEQKDEKYWSRRYKNNEAAKRSRDARRLKENQISVRAAFLEKENALLRQE  
VVAVRQELSHYRAVLSRYQAQHGAL

>sp|Q8NA75|DC4L2\_HUMAN DDB1- and CUL4-associated factor 4-like protein 2 OS=Homo sapiens  
GN=DCAF4L2 PE=1 SV=1

MESKRPRLLEEADKQKKTVRVGLNAPSMRLRKNQLGFLRFANYCRIARELRVSCMRKKVQ  
IHSWDPSSLASDRFNRIANTNDQLFTVNQVEAGGSKYGIITMRGLTPELRVYPHKT  
YVPRNKVNSMCWASLNHLDSHLLLCFVGLADTPSCAVLLPASLFIGSFPMRRPGMLCSF  
QIPDAWSCAWSLSIHAYHSFSTGLSQQVLLTNVVTGHQQSFGTSSDVLAQQFAIMTPLLF  
NGCRSGEIFGIDLRCGNQGSQWKAICLSHDSAVTSLQILQDGGQFLVSSDMTGTIKLWDLR  
ATKCVTQYEGHVNNSAYLPVHVNEEGVVAAVGQDCYTRIWSLRHGHLTTIPSPYPASE  
NDIPSVAFSSRLGGFRGAPGLLMAVREDLYCFSYG

>sp|Q7L5Y6|DET1\_HUMAN DET1 homolog OS=Homo sapiens GN=DET1 PE=1 SV=2

MDHHVSTIKPRRIQNQNVIRLERRRISGKAGTHWHQVRVFHQNVFPNFTVVNVEKPPC  
FLRKFSPPDGRYFIASFSDQTSLEIYEQGCQAAEDLLQGYEGEILSNGNDQRSVNIRGRL  
FERFFVLLHITNVAANGEHLNRECSLFTDDCRCVIVGSAAYLPDEPHPPFFEVYRNSES  
TPNPRSPLEDYSLHIIDLHTGRLCDTRTFKCDKVVLSHNQGLYLYKNILAILSVQQQTIH

VFQVTPEGTFIDVRTIGRFCYEDDLLTVSAVFPEVQRDSQTGMANPFRDPFINSLKHRL  
VYLWRRAEQDGSAMAKRRFFQYFDQLRQLRMWKMQLLDENHLFIKYTSEDVVTLRVTDP  
QASFFVYVNMVTTTEVIAVFENTSDELLELFENFCDLFRNATLHSEVQFPCSASSNNFAR  
IQRRFKDTIINAKYGGHTEAVRRLGQLPISAQSYSGSPYLDLSLFSYDDKWVSVMERPK  
TCGDHPIRFYARDSGLLKFEIQAGLLGRPINHVRRLVAFTFHPFEPFAISVQRTNAEYV  
VNFHMRHCCT

>sp|Q6IED9|DG2L7\_HUMAN Putative diacylglycerol 0-acyltransferase 2-like protein DGAT2L7P  
OS=Homo sapiens GN=DGAT2L7P PE=5 SV=2

MLAVLYLLVKTAKLGTSWNYLFDHPHRVLVVGAFANFCTEPTGCSCLPKLPPLLMLP  
CWFHLLFFQDYIMSGASALPPGLVSFVKAPLPQWWPGGCPGVGGPLQALEAKPGQLSLPI  
RNQKRLVKSALELGENELFQQFPNPQSSWVQRTQEALRPLLSVALQLFLGRRGLPLPFRA  
PIRTVVGSAIPVQQSPPPSPAQVDTLQARYVGRLTQLFEEHQARYGVPADRHLVLTEARP  
TAWPRLSAG

>sp|075907|DGAT1\_HUMAN Diacylglycerol 0-acyltransferase 1 OS=Homo sapiens GN=DGAT1 PE=1  
SV=2

MGDRGSSRRRTGSRPSSHGGGGPAAAEVEVRDAAAGPDVGAAGDAPAPAPNKDGDAGVG  
SGHWELRCHRLQDSLFSDSGSFNYRGILNWCVMMLILSNARLFLENLIKYGILVDPIQV  
VSLFLKDPYSWPAPCLVIAANFVAFAAFQVEKRLAVGALTEQAGLLLHVANLATILCFPA  
AVVLLVESITPVGSLLALMAHTILFLKLFSYRDVNSWCRRARAKAASAGKKASSAAAPHT  
VSYPDNLTYRDLYFLFAPTLCYELNFPRSPRIRKRFLLRILEMLFFTQLQVGLIQQWM  
VPTIQNSMKPFKMDYSRIERLLKLAVPNHLIWLIFFYWLFHSCLNVAELMQFGDREF  
YRDWWNSESVTYFWQWNIPVHKWCIRHFYKPMRLRGSSKWMARTGVFLASAFFHEYLV  
VPLRMFRLWAFTGMAQIPLAWFVGRFFQGNYGNAAVWLSLIIGQPIAVLMYVHDYYVLN  
YEAPAAEA

>sp|Q96DF8|DGC14\_HUMAN Protein DGCR14 OS=Homo sapiens GN=DGCR14 PE=1 SV=1

METPGASASSLLLPAASRPKRREAGEAGAATSKQRVLDEEEYIEGLQTVIQRDFFPDVE  
KLQAQKEYLEAEENGDLERMRQIAIKFGSALGKMSREPPPPYVTPATFETPEVHAGTG  
GNKPRPRGRGLEDGEAGEEEKEPLPSLDVFLSRYTSEDNASFQEI MEVAKERSRARHAW  
LYQAEFEFEKRQKDNLELPSAEHQAI ESSQASVETWKYKAKNSLMYYPEGVPDEEQLFKK  
PRQVVHKNTFLRDPFSQALSRCQLQAAAALNAQHKQKVGPDGKELIPQESPRVGGFGF  
VATPSPAPGVNESPMMTWGEVENTPLRVEGSETPYVDRTPGPAFKILEPGRRLGLKMA  
NEAAAKNRAKKQEALRRVTENLASLTPKGLSPAMSPALQRLVSRTASKYTDRLRASYP  
SPARSTHLKTPASGLQTPSTPAPGSATRTPLTQDPASITDNLQLPARRKASDFF

>sp|P52824|DGKQ\_HUMAN Diacylglycerol kinase theta OS=Homo sapiens GN=DGKQ PE=1 SV=2

MAAAAEPGARAWLGGGSPRPGSPACSPVLGSGGRARPGPGPGPERAGVRAPGPAAPG  
HSFRKVTLTkPTfCHLCSDFIWGLAGFLCDVCNFMSSHEKCLKHVRIPCTSVAPSLVRVPV  
AHCFGPRGLHKRKFCAVCRKVL EAPALHCEVCELHLHPDCVPFACSDCRQCHQDGHQDHD  
THHHHWREGNLPSGARCEVCRKTCGSSDVLGVRCEWCGVQAHSLSAALAEPCGFGRLR  
SLVLPPACVRLLPGGFSKTQSFRIVEAAEPGEGGDGADGSAAVGPGRETQATPESGKQTL  
KIFDGD DAVRRSQFRLVTVSRLAGAEVLEAALRAHHIPEDPGHLELCRLPPSSQACDAW  
AGGKAGSAVISEGRSPGSGEATPEAWVIRALPRAQEV LKIYPGWLKVG VAYVSVRVTPK  
STARSVVLEVLPLLGRQAESPESFQLVEVAMGCRHVQRTMLMDEQPLLDRLQDIRQMSVR  
QVSQTRFYVAESRDVAPHVSLFVGGLPPGLSPEEYSSLLHEAGATKATVVSVSHIYSSQG  
AVVLDVACFAEAERLYMLLKDMAVRGRLLTALVLPDLLHAKLPDSCPLL VFNPKSGGL

KGRDLLCSFRKLLNPHQVFDLTNGGPLPGLHLFSQVPCFRVLVCGDGTVGWVLGALEET  
RYRLACPEPSVAILPLGTGNDLGRVLRWGAGYSGEDPFSVLLSVDEADAVLMDRWTILLD  
AHEAGSAENDTADAEPPKIVQMSNYCGIGIDAELSDFHQAREEEPGKFTSRLHNKGYYV  
RVGLQKISHRSRLHKQIRLQVERQEVELPSIEGLIFINIPSWGSGADLWGSDSDTRFEKP  
RMDDGELLEVVGTGVVHMGQVQGGRLRSGIRIAQGSYFRVTLLKATPVQVDGEPWVQAPGH  
MIISAAGPKVHMLRKAKQKPRRAGTTRDARADAAPAPESDPR

>sp|P49448|DHE4\_HUMAN Glutamate dehydrogenase 2, mitochondrial OS=Homo sapiens GN=GLUD2  
PE=1 SV=2

MYRYLAKALLPSRAGPAALGSAANHSALLGRGRGQPAASQPGLALAARRHYSELVADR  
EDDPNFFKMVEGFFDRGASIVEDKLVKDLRTQESEEQKRNRVRGILRIKPCNHVLSLSF  
PIRRDDGSWEVIEGYRAQHSQHRTPCKGGIRYSTDVSVDEVKALASLMTYKCAVVDVPFG  
GAKAGVKINPKNYTENELEKITRRFTMELAKKGFIGPGVDVPAPDMNTGEREMSWIADTY  
ASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGIENFINEASYMSILGMPGFR  
DKTFVVQGFQGNVGLHSMRYLHRFGAKCIAVGESDGSIWNPDGIDPKELEDFKLQHGSILG  
FPKAKPYEGSILEVDCDILIPAATEKQLTKSNAPRVKAKIIAEGANGPTPEADKIFLER  
NILVIPDLYLNAGGVTVSYFEWLKNLNVHVSYGRLTFKYERDSNYHLLLSVQESLERKFGK  
HGGTIPIVPTAEFQDSISGASEKDIVHSALAYTMERSARQIMHTAMKYNLGLDLRTAAYV  
NAIEKVFKVYSEAGVTFT

>sp|P28845|DHI1\_HUMAN Corticosteroid 11-beta-dehydrogenase isozyme 1 OS=Homo sapiens  
GN=HSD11B1 PE=1 SV=3

MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAHYHLAKMGAH  
VVVTARSKETLQKVVSCHLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGDLMLILNH  
ITNTSLNLFHDDIHVHRKSMEVNFSLSYVVLTVAAALPMLKQSNGSIVVSSLAGKVAYPMV  
AAYSASKFALDGGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMKAVSGIVHMQAAPKEE  
CALEIIKGGALRQEEVYDSSLWTLLIRNPCRKILEFLYSTSYNMDRFINK

>sp|Q68CQ4|DIEXF\_HUMAN Digestive organ expansion factor homolog OS=Homo sapiens GN=DIEXF  
PE=1 SV=2

MGKRGSRSQSLLNTLTKKQKKHLRDFGEEHPFYDRVSRKEAKPQICQLSESSDSSDSES  
DSESEPQQVSGYHRLATLKNVSEEEEEDEEEEEEDSIDVDAEMNDEDGSDVSVEEEM  
AAESTESPENVALSADPEGKEDGEPPGTSQTSPEEFTDAKHESLFSLETNFLEESGDN  
SSLKASQDPFLQHVNKELKEKAIQAVATNPKTTHLKWPILGQLFFSSKFQKLETFKPPK  
DIDLKSLHLQKPLESTWTKTNSQFLSGPQKSSSPFTPLQKELFLIMNSYRDLFYPERTAL  
KNGEERHVYCLHVINHILKANAQVLGNNSRRRSQKFGVGDDDDFRDQGLTRPKVLIVVP  
FREAAALRVVQLFISLLEGDSKKKIIIVSNKKRFQGEYGSDEERPPNLKRPEDYEAVFVGN  
IDDHFRIGVAILQRSIRLYAPFYSSDILIASPLGLRTIIGGEGEKKRDFDLSSIELLI  
DQADIYLMQNWEHVLHLMNHMNLPLDSHGVDVSRVRMWSLNNWSKYRQTLLFGALQDA  
QINSVFNKYCVNMQGVAVRVNPMTGSISHVLVQLPHVFQRMEAENLASVIDARFNFFVN  
KILPQYRDAVMSHTLIYIPSYFDFVRLRNYFKKEELNFTHICEYTKSGVSRARHFFLQG  
EKQFLLFTERFHFYKRYTIKIRNLIFYELPTYPHFYSEICNMLRATNRGEEATWTCTVL  
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>sp|Q9UBS4|DJB11\_HUMAN DnaJ homolog subfamily B member 11 OS=Homo sapiens GN=DNAJB11 PE=1  
SV=1

MAPQNLSTFCLLLLYLIGAVIAGRDFYKILGVPRSASIKDIKKAYRKLALQLHPDRNPDD  
PQAQEFQDLGAAYEVLSDSEKRRQYDITYGEEGLKDGHQSSHGDIFSHFFGDFGMFGGT

PRQQDRNIPRGSDIIVDLEVTLEEVYAGNFVEVVRNKPVARQAPGKRKCNCRQEMRTTQL  
GPGRFQMTQEVCDECPNVKLVEERTLEVEIEPGVRDGMETPFIGEGEPHVDGEPGDLR  
FRIKVVKHPIFERRGDDLYTNVTISLVESLVGFEMDITHLDGHKVIHSRDKITRPGAKLW  
KKGEGLPNFDNNNIKGLIITFDVDFPKEQLTEEAREGIKQLLKQGSVQKVYNGLQGY

>sp|Q9NXW2|DJB12\_HUMAN DnaJ homolog subfamily B member 12 OS=Homo sapiens GN=DNAJB12 PE=1  
SV=4

MESNKDEAERCISIALKAIQSNQPDRLRFLEKAQRLYPTPRVRALIESLNQKPQTAGDQ  
PPPTDTTHATHRKAGGTDAPSANGEAGGESTKGYTAEQVAAVKRVKQCKDYIEILGVSRG  
ASDEDLKKAYRRLALKFHPDKNHAPGATEAFKAIGTAYAVLSNPEKRRQYDQFGDDKSQA  
ARHGHGHGDFHRGFADISPEDLFNMFFGGGFPSSNVHVYSNGRMRYTYQQRQDRRDNQG  
DGGLGVFVQLMPLILILVLSALSQLMVSSPPYSLSPRPSVGHIHRRVTDHLGVVYVYVGD  
FSEETGSSSLKTVERNVEDDYIANLRNNCWKEKQQSEGLLYRARYFGDMDYHRAQKMGT  
PSCSRLSEVQASLHG

>sp|Q9NVH1|DJC11\_HUMAN DnaJ homolog subfamily C member 11 OS=Homo sapiens GN=DNAJC11 PE=1  
SV=2

MATALSEEELDNEDYSSLNVRREASSEELKAAVRRCLMLYHPDKHRDPELKSQAERLFN  
LVHQAYEVLSDPQTRAIYDIYKGRGLEMEGWEVVERRRTPAEIREEFERLQREREERRLQ  
QRTNPKGTISVGVDATDLFDYDEEYEDVSGSSFPQIEINKMHISQSIEAPLTATDTAIL  
SGSLSTQNGNGGGSINFALRRVTSAGWGELEFGAGDLQGFLFGLKLFRLNTPRCFVTN  
CALQFSSRGIRPGLTTVLARNLDKNTVGYLQWRWGIQSAMNTSIVRDTKTSHTVALQLG  
IPHSFALISYQHKFQDDQTRVKGSLKAGFFGTVEYGAERKISRHSVLGAAVSVGVPPQ  
VSLKVKLNRSQTYFFPIHLDQLLPSAMFYATVGPLVVYFAMHRLIKPYLRAQKEKEL  
EKQRESAATDVLQKKQEAESAARLMQESVRRRIEAEESRMGLIIVNAWYGFVNDKSRKS  
EKVKVIDVTVPQLCLVKDSKLILTEASKAGLPGFYDPCVGEEKNLKVLYQFRGVLHQVMV  
LDSEALRIPKQSHRIDTDG

>sp|Q9H819|DJC18\_HUMAN DnaJ homolog subfamily C member 18 OS=Homo sapiens GN=DNAJC18 PE=2  
SV=1

MAATLGSGERWTEAYIDAVRRNKYPEDTPPESHDPGCCNCMKAAQKEKKSENEWTQTRQG  
EGNSTYSEEQLLVGQRIKKCRNYEILGVSRDASDEELKKAYRKLALKFHPDKNCAPGAT  
DAFKAIGNAFVLSNPDKRLRYDEYQDEQVTFAPRARPNYYRDFEADITPEELFNVFF  
GGHPTGNIHMSNVTDDTYYYYRRRRHHERTQTQKEEEEEKPTTYSAFIQLLPVLVIVI  
ISVITQLLATNPPYSLFYKSTLGYTISRQNLQVPYFVDKNFDKAYRGASLHDLEKTIE  
KDYIDYIQTSCWKEKQKSELNLAGLYRDERLKQKAESLLENCEKLSKLIGLRGG

>sp|Q9NX36|DJC28\_HUMAN DnaJ homolog subfamily C member 28 OS=Homo sapiens GN=DNAJC28 PE=1  
SV=2

MNTMYVMAQILRSHLIKATVIPNRVKMLPYFGIIRNRMMSTHKSKKKIREYYRLLNVEE  
GCSADEVRESFHKLAKQYHPDSGNTADSATFIRIEKAYRKVLSHVIEQTNASQSKGEEE  
EDVEKFKYKTPQHRHYLSFEGIGFTPTQREKHRYRQFRADRAAEQVMEYQKQLQSQYFP  
DSVIVKNIRQSKQKITQAIERLVEDLIQESMAKGDFDNLSGKGKPLKFSYIDPMT  
HNLNRLIDNGYQPEWILKQKEISDTIEQLREAILVSRKKLGNMPTPEKKQWNHVCEQF  
QENIRKLNKRINDFNLIPLTRQKVHFDQAQKEIVRAQKIYETLIKTEVTDRNPNNLDQ  
GEGEKTPEIKKGFLNWMNLWKFIRSF

>sp|P09622|DLDH\_HUMAN Dihydrolipoyl dehydrogenase, mitochondrial OS=Homo sapiens GN=DLD  
PE=1 SV=2



MQSWSRVYCSLAKRGHFNRI SHGLQGLSAVPLR TYADQP IDADVT VIGSGPGGYVAAIKA  
AQLGFKTV CIEKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRG IEMSEVRLNL  
DKMMEQKSTAVKALTGGIAHLFKQNKVVHVNGYGKITGKNQVTATKADGGTQVIDTKNIL  
IATGSEVTPFPGITIDEDTIVSSTGALS LKKVPEKMMVIGAGVIGVELGSVWQRLGADVT  
AVEFLGHVGGVGIDMEISKNFQRILQKQGFKFLNTKVTGATKKS DGKIDVSIEAASGGK  
AEVITCDVLLVCIGRRPFTKNLGLEELGIELDPRGRIPVNTRFQTKIPNIYAIGDVVAGP  
MLAHKAEDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEGIEYKV GK  
FPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGAGEMVNEAALALEYGASCED I  
ARVCHAHPTLSEAFREANLAASFGKSINF

>sp|Q92796|DLG3\_HUMAN Disks large homolog 3 OS=Homo sapiens GN=DLG3 PE=1 SV=2

MHKHQHCKCCECYEVRTLAALRRLEPPGYGDWQVPDPYGP GGGNGASAGYGGYSSQTLP  
SQAGATPTPRTKAKLIPTGRDVGVPVPPKPVPGKSTPKLNGSGPSWWPECTCTNRDWYEQV  
NGSDGMFKYEEIVLERGNSGLGFSIAGGIDNPHVPDDPGIFITKIIPGGAAAMDGRLGVN  
DCVLRVNEVDVSEVVHSRAVEALKEAGPVVRLVVRRRQPPPETIMEVNLLKGPKGLGFSI  
AGGIGNQHIPGDNSIYITKIIIEGGAQKDGRLQIGDRLLAVNNTNLQDVRHEEAVASLKN  
TSDMVYLKVAKPGSLHLNDMYAPPDYASTFTALADNHISHNSSLGYL GAVESKVSYPAPP  
QVPPTRYSPIPRHMLAEEDFTREPRKIIILHKGSTGLGFNIVGGEDGEGIFVSFILAGGPA  
DLSELRRGDRILSVNGVNLRNATHEQAAAALKRAGQSVTIVAQYRPEEYSRFESKI HDL  
REQMMNSSMSSSGSLRTSEKRSLYVRALFDYDRTRDSCLPSQGLSFSYGDILHVINASD  
DEWWQARLVTPHGESEQIGVIPSKKRVEKKERARLKT VKFHARTGMIESNRDFPGLSDDY  
YGAKNLKGQEDAILSEYPVTRQEIH YARPV IILGPMKDRVNDLISEFPHKFGSCVPHTT  
RPRRDNEVDGQDYHFVVSREQMEKDIQDNKFI EAGQFNDNLYGTSIQSVRAVAERGKHCI  
LDVSGNAIKRLQQAQLYPIAIFIKPKSIEALMEMNRRQTYEQANKIYDKAMKLEQEFGEY  
FTAIVQGDSLEEIYNKIKQIIEDQSGHYIWVPSPEKL

>sp|Q6UY11|DLK2\_HUMAN Protein delta homolog 2 OS=Homo sapiens GN=DLK2 PE=2 SV=1

MPSGRCRLHLVCLLCILGAPGQPVRA DDCSSHCDLAHGCCAPDGSC RCDPGWEGLHCERC  
VRMPGCQHGTCHQPWQCICHSGWAGKFC DKDEHICTTQSPCQNGGQCMYDGGGEYHCVCL  
PGFHGRDCERKAGPCEQAGSPCRNGGQCQDDQGFALNFTCRCLVGFVGARCEVNVDCLM  
RPCANGATCLDGINRFSCLCEP GFAGRFCTINLDDCASRPCQRGARCRDRVHDFDCLCPS  
GYGGKTCELVLPVPDPPTTVDTP LGPTS AVVVPATGPAPHSAGAGLLRISVKEV VRRQEA  
GLGEPSLVALVVFALTAALVLATVLLTLRAWRRGVCP PGPCYPAPHYAPACQDQECQV  
SMLPAGLPLPRDLPPEPGKTAL

>sp|Q9NYJ7|DLL3\_HUMAN Delta-like protein 3 OS=Homo sapiens GN=DLL3 PE=1 SV=1

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGGAPRSPCSARLPCRLFF  
RVCLKPGLSEEAESP CALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPFRDAWPGTF  
SFI IETWREELGDQIGGPAWSLLARVAGRRRLAAGGPWARDIQRAGAWELRFSYRARCEP  
PAVGTA CTRLCRPRSAPSR CGPLRPCAPLEDECEAPLVCRAGCSPEHGFCEQPGECRCL  
EGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGCDGNPCANGGSCSETPRSFECTC  
PRGFYGLRCEVSGVTCADGPCFN GGLCVGGADPDSAYICHCPPGFQGSNCEKRVDRCSLQ  
PCRNGGLCLDLGHALRCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALG  
FGGRDCRERADPCAARPCA HGGRCYAHFSGLVACAPGYMGARCEFPVHPDGASALPAAP  
PGLRPGDPQRYLLPPALGLLVAAGVAGAALLLVH VRRRGHSQDAGSRLLAGTPEPSVHAL  
PDALNNLRTQEGSGDGPSSVDWNRPEDVDPQG IYVISAPSIYAREVATPLFPPLHTGRA  
GQRQHLLFPYPSSILSVK

>sp|Q07687|DLX2\_HUMAN Homeobox protein DLX-2 OS=Homo sapiens GN=DLX2 PE=1 SV=2

MTGVFDSLVLADMHSTQIAASSTYHQHQPPSGGGAGPGGSSSSSSSLHKPQESPTLPVST  
ATDSSYYTNQHPAGGGGGGSPYAHMSYQYQASGLNNVPYSAKSSYDLGYTAAYTSYA  
PYGTSSSPANNEPEKEDLEPEIRIVNGKPKKVRKPRTIYSSFQALQRRFQKTQYLALP  
ERAELAASLGLTQTQVKIWFQNRRSKFKKMWKSGEIPSEQHPGASASPPCASPPVSAPAS  
WDFGVPQRMAGGGGPGSGGSGAGSSGSSPSAASAFLGNYPWYHQTSGSASHLQATAPLL  
HPTQTPQPHHHHHHHGGGGAPVSAGTIF

>sp|P56179|DLX6\_HUMAN Homeobox protein DLX-6 OS=Homo sapiens GN=DLX6 PE=2 SV=2

MSHSQHSPYLQSYHNSSAAQTRGDDTDQKTTVIENGEIRFNGKGGKIRKPRTIYSSLQ  
LQALNHRFQQTQYLALPERAELAASLGLTQTQVKIWFQNKRSKFKLLKQGSNPHESDPL  
QGSAAALSPRSPALPPVWDVSASAKGVSMPPNSYMPGYSHWYSSPHQDTMQRPQMM

>sp|Q9UGM3|DMBT1\_HUMAN Deleted in malignant brain tumors 1 protein OS=Homo sapiens  
GN=DMBT1 PE=1 SV=2

MGISTVILEMCLLWGQVLSTGGWIPRTTDYASLIPSEVPLDPTVAEGSPFPSESTLESTV  
AEGSPISLESTLESTVAEGSLIPSESTLESTVAEGSDSGLALRLVNGDGRGQGRVEILYR  
GSWGTVCDDSWDTNDANVVCRLGCGWAMSAPGNAWFGQGSGPIALDDVRCSGHESYLWS  
CPHNGWLSHNCGHGEDAGVICSAAQPQSTLRPESWPVRISPPVPTEGSESSLALRLVNGG  
DRCRGRVEVLYRGSWGTVCDDYWDNDANVVCRLGCGWAMSAPGNAQFGQGSGPIVLDD  
VRCSGHESYLWSCPHNGWLTHNCGHSEDAGVICSAPQSRPTSPDTWPTSHASTAGPESS  
LALRLVNGGDRCQGRVEVLYRGSWGTVCDDSWDTSDANVVCRLGCGWATSAPGNARFGQ  
GSGPIVLDDVRCSGYESYLWSCPHNGWLSHNCQHSEDAGVICSAAHSWSTPSPDTLPTIT  
LPASTVGSESSLALRLVNGGDRCQGRVEVLYRGSWGTVCDDSWDTNDANVVCRLGCGWA  
MLAPGNARFGQGSGPIVLDDVRCSGNESYLWSCPHNGWLSHNCGHSEDAGVICSPESSL  
ALRLVNGGDRCQGRVEVLYRGSWGTVCDDSWDTNDANVVCRLGCGWATSAPGNARFGQG  
SGPIVLDDVRCSGHESYLWSCPHNGWLSHNCGHEDAGVICSAAQSRSTPRPDTLSTITL  
PPSTVGSESSLTLRLVNGSDRCQGRVEVLYRGSWGTVCDDSWDTNDANVVCRLGCGWAT  
SAPGNARFGQGSGPIVLDDVRCSGHESYLWSCPHNGWLSHNCGHEDAGVICSVSQSRPT  
PSPDTWPTSHASTAGPESSLALRLVNGGDRCQGRVEVLYRGSWGTVCDDSWDTSDANVVC  
RQLGCGWATSAPGNARFGQGSGPIVLDDVRCSGYESYLWSCPHNGWLSHNCQHSEDAGVI  
CSAAHSWSTPSPDTLPTITLPASTVGSESSLALRLVNGGDRCQGRVEVLYQGSWGTVCDD  
SWDTNDANVVCRLGCGWAMSAPGNARFGQGSGPIVLDDVRCSGHESYLWSCPHNGWLSH  
NCGHSEDAGVICSASQSRPTSPDTWPTSHASTAGSESSLALRLVNGGDRCQGRVEVLYR  
GSWGTVCDDYWDNDANVVCRLGCGWAMSAPGNARFGQGSGPIVLDDVRCSGHESYLWS  
CPHNGWLSHNCGHEDAGVICSASQSQPTSPDTWPTSHASTAGSESSLALRLVNGGDRC  
QGRVEVLYRGSWGTVCDDYWDNDANVVCRLGCGWATSAPGNARFGQGSGPIVLDDVRC  
SGHESYLWSCPHNGWLSHNCGHEDAGVICSASQSQPTSPDTWPTSHASTAGSESSLAL  
RLVNGGDRCQGRVEVLYRGSWGTVCDDYWDNDANVVCRLGCGWATSAPGNARFGQGSG  
PIVLDDVRCSGHESYLWSCPHNGWLSHNCGHEDAGVICSASQSQPTSPDTWPTSRAST  
AGSESTLALRLVNGGDRCRGRVEVLYQGSWGTVCDDYWDNDANVVCRLGCGWAMSAPG  
NAQFGQGSGPIVLDDVRCSGHESYLWSCPHNGWLSHNCGHEDAGVICSAAQSQSTPRPD  
TWLTNNLPALTVGSESSLALRLVNGGDRCRGRVEVLYRGSWGTVCDDSWDTNDANVVCRL  
LGCGWAMSAPGNARFGQGSGPIVLDDVRCSGNESYLWSCPHKGWLTHNCGHHEDAGVICS  
ATQINSTTTDWWHTTTTTARSSNCGGFLFYASGTFSSPSYPAYYPNNAKCVWEIEVNS  
GYRINLGFSNLKLEAHHNCSFDYVEIFDGSLSNSSLGKICNDTRQIFTSSYNRMTIHFR

SDISFQNTGFLAWNSFPSDATLRLVNLNSSYGLCAGRVEIYHGGTWGTVCDTSWTIQEA  
EVVCRQLGCGRAVSALGNAYFGSGSGPITLDDVECSGTESTLWQCRNRGWFSHNCNHRED  
AGVICSGNHLSTPAPFLNITRPNTDYSCGGFLSQPSGDFSSFPYPGNYPNNAKCVWDIEV  
QNNYRVTVIFRDVQLEGGCNYDYIEVFDGPYRSSPLIARVCDGARGSFSSSNFMSIRFI  
SDHSITRRGFRAEYSSPSNDSTNLLCLPNHMQASVSRSYLSLGFSASDLVISTWNGYY  
ECRPQITPNLVIFTIPYSGCGTFKQADNDTIDYSNFLTAAVSGGIKRRTDLRIHVSCRM  
LQNTWVDTMYIANDTIHVANNTIQVEEVQYGNFDVNISFYTSSSFLYPVTSRPYYVDLNQ  
DLYVQAEILHSDAVLTFLVDTCVASPYSNDFSLTYDLIRSGCVRDDTYGPYSSPSLRIA  
RFRFRAFHFLNRFPSSVYLRCKMVCRAYPDSSRCYRGCVLRSKRDVGSYQEKVDVVLGPI  
QLQTTPPRREEEPR

>sp|Q6E0U4|DMKN\_HUMAN Dermokine OS=Homo sapiens GN=DMKN PE=1 SV=3

MKFQGPLACLALLALCLSGEAGPLQSGEESTGTNIGEALGHGLGDALSEGVGKAIGKEAG  
GAAGSKVSEALGQGTREAVGTGVRQVPFGFVADALGNRVGEAAHALGNTGHEIGRQAEDV  
IRHGADAVRGSWQGVPGHNGAWETSGGHGIFGSQGGGLGGQGGNPGGLGTPVWHGYPGNS  
AGSFGMNPQGAPWGQGGNGGPPNFGTNTQGAQAQPGYGSVRASNQNEGCTNPPPSGSGGG  
SSNSGGGSGSQSGSSGSGSNGDNNNGSSSGSSSGSSSGSSSGSSGSSGSSGNSGGSRGDS  
GSESSWGSSTGSSSNHGGSGGNGHKPGCEKPGNEARGSGESGIQNSSETSPGMFNFDTF  
WKNFKSKLGFINWDAINKNQPPPSTRALLYFSRLWEDFKQNTFPLNWKAIIEGADASSL  
QKRAGRDDQNYNYNHAYPTAYGGKYSVKTPAKGGVSPSSASRVQPGLLQWVKFW

>sp|Q13316|DMP1\_HUMAN Dentin matrix acidic phosphoprotein 1 OS=Homo sapiens GN=DMP1 PE=1  
SV=2

MKISILLMFLWGLSCALPVTRYQNNESDSEEWKGHLAQAPTPPLESSESSEGSKVSSEE  
QANEDPSDSTQSEELGSDDHQYIYRLAGGFSRSTGKGGDDKDDDEDDSGDDTFGDDDSG  
PGPKDRQEGGNSRLGSDSDSDTIQASEESAPQGQDSAQDTSERELDNEDRVDSKPEG  
GDSTQESESEEHWVGGSDDGESSHGDGSELDEGMQSDDPESIRSERGNSRMNSAGMKSK  
ESGENSEQANTQDSGGSQLEHPSRKIFRKSRISEEDDRSELDDNNTMEEVKSDSTENSN  
SRDTGLSQPRRDSKGDSDQEDSKENLSQEESQNVDPSSSESSQEANLSSQENSSESQEEVV  
SESRGDNPDPTTSYVEDQEDSDSSEEDSSHTLSHKSSESREEQADSESSESLENFSEESPE  
SPEDENSSSQEGLQSHSSSAESQSEESHSEEDSDSDSSRSKEDSNSTESKSSSEEDGQ  
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>sp|Q9Y5R6|DMRT1\_HUMAN Doublesex- and mab-3-related transcription factor 1 OS=Homo  
sapiens GN=DMRT1 PE=1 SV=2

MPNDEAFSKPSTPSEAPHAPGVPPQGRAGGFGKASGALVGAASGSSAGGSSRGGGSGSGA  
SDLGAGSKKSPRLPKCARCRNHGYASPLKGHKRFCMWRDCQCKKCNLIAERQVRMAAQVA  
LRRQQAQEEELGISHPIPLPSAAELLVKRENNGSNPCLMTECSGTSQPPPASVPTTAASE  
GRMVIQDIPAVTSRGHVENTPDLVSDSTYYSSFYQPSLFPYYNNLYNCPQYSMALAADSA  
SGEIGNPLGGSPVKNSRLGPLGPYVPGQTGNQWQMKNMENRHAMSSQYRMHSYPPPSYL  
GQSVPPQFFTFEDAPSYPEARASVFSPSSQDGLVSLSSSSPISNKSTKAVLECEPASEP  
SSFTVTPVIEEDE

>sp|Q9NUU7|DD19A\_HUMAN ATP-dependent RNA helicase DDX19A OS=Homo sapiens GN=DDX19A PE=1  
SV=1

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LNKLIRSNLVDNTNQVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIEN  
ALPMMLAEPPQNLIAQSQSGTGKTAAFVLAMLSRVEPSDRYPQCLCLSPTYELALQTGKV

IEQMGKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWCSKLFIDPKKIKVFVL  
DEADVMIATQGHQDQSIRIQRMLPRNCQMLLFSATFEDSVWKFAQKVVPDPNVIKLKREE  
ETLDTIKQYYVLCSRRDEKFQALCNLYGAITIAQAMIFCHTRKTASWLAELSKEGHQVA  
LLSGEMMVEQRAAVIERFREGKEKVLVTTNVCARGIDVEQVSVINFDLPVDKDGNDPNE  
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>sp|Q94760|DDAH1\_HUMAN N(G),N(G)-dimethylarginine dimethylaminohydrolase 1 OS=Homo sapiens GN=DDAH1 PE=1 SV=3

MAGLGHPAAFGRAHVVRLPESLGQHALRSAKGEEVDVARAERQHQLYVGVLGSKLGL  
QVVELPADESPLDCVFVEDVAVVCEETALITRPGAPSRREKEDMMKEALEKLQNLIVEMK  
DENATLDGGDVLFTGREFFVGLSKRTNQRGAELADTFKDYAVSTVPVADGLHLKSFCSM  
AGPNLIAIGSSESAQKALKIMQMSDHRVDKLTVPDDIAANCIYLNIPNKGHVLLHRTPE  
EYPESAKVYEKLDHMLIPVSMSELEKVDGLLTCCSVLINKKVD

>sp|Q92466|DDB2\_HUMAN DNA damage-binding protein 2 OS=Homo sapiens GN=DDB2 PE=1 SV=1

MAPKKRPETQKTSEIVLRPNKRSRSPLELEPEAKKLCAKSGSPSRCDSDCLWVGLAGP  
QILPPCRSIVRTLHQHKLGRASWPSVQQGLQQSFLHTLDSYRILQKAAPFDRRATSLAWH  
PTHPSTVAVGSKGGDIMLWNFGIKDKPTFIKIGAGGSITGLKFNPLTNQFYASSMEGT  
TRLQDFKGNILRVFASDITINIWFCSLDVSASSRMVVTGDNVGNVILLNMDGKELWNLRM  
HKKKVTHVALNPCCDWFLATASVDQTVKIWDLRQVRGKASFLYSLPHRHPVNAACFSPDG  
ARLLTTDQKSEIRVYSASQWDCPLGLIPHPHRHFQHLTPIKAAWHPRYNLIVVGRYPDPN  
FKSCTPYELRTIDVFDGNSGKMMQCLYDPESSGISSLNEFNPMGDTLASAMGYHILIWSQ  
EEARTRK

>sp|Q9NR30|DDX21\_HUMAN Nucleolar RNA helicase 2 OS=Homo sapiens GN=DDX21 PE=1 SV=5

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KAEPSEVDMNSPKSKKAKKKEEPSQNDISP KTKSLRKKKEPIEKKVVSSKTKKVTKNEEP  
SEEEIDAPKPKMKKEKEMNGETREKSPKLKNGFPHPEPCNPSEAASEESNSEIEQEIP  
VEQKEGAFSNFPISEETIKLLKGRGVTFLFPIAKTFHHVYSGKDLIAQARTGTGKTFSF  
AIPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFYGGTPYGG  
QFERMRNGIDILVGTGRIKDHIQNGKLDLTKLKHVVLDEVDQMLDMGFADQVEEILSVA  
YKKDSEDNPQTLLFSATCPHWFVNAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHW  
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KGFRNGSFGVLVATNVAARGLDIEVDLVIQSSPKDVESYIHRSGRTGRAGRTGVCICF  
YQHKEEYQLVQVEQKAGIKFKRIGVPSATEIIKASSKDAIRLLDSVPPTAISHFQKSAEK  
LIEEKGAVEALAAALAHISGATSVDQRSLINSNVGFVTMILQCSIEMPNISYAWKELKEQ  
LGEEIDSKVKGMVFLKGLGVCFDVPTASVTEIQEKWHSRRWQLSVATEQPELEGPREG  
YGGFRGQREGSRGFRGQRDGNRRFRGQREGSRGPRGQRSGGGNKSQRSQNGKQKRSFASKA  
FGQ

>sp|Q9NUL7|DDX28\_HUMAN Probable ATP-dependent RNA helicase DDX28 OS=Homo sapiens GN=DDX28 PE=1 SV=2

MALTRPVRLFSLVTRLLLAPRRGLTVRSPDEPLPVVRIPVALQRQLEQRQSRRRNLP  
LVRPGPLLVSARRPELNQPARLTLGRWERAPLASQGWKSRRARRDHFSIERAQQEAPAVR  
KLSSKGSFADLGLEPRVLHALQEAAPEVVQPTTVQSSTIPSLLRGRHVCAAETGSGKTL  
SYLLPLLQRLLGQPSLDSLPIAPRGLVLVPSRELAQQVRAVAQPLGRSLGLLVRDLEGG  
HGMRRIRLQLSRQPSADVLVATPGALWKALKSRLISLEQLSFLVLDEADTLLDESFLV  
DYILEKSHIAEGPADLEDPFNPKAQLVLVGATFPEGVGQLLNKVASPDVTTITSSKLHC

IMPHVKQTFRLRLKGADKVAELVHILKHRDRAERTGPSGTVLVFCNSSSTVNWLYILDDH  
KIQHLRLQGQMPALMRVGIFQSFQKSSRDILLCTDIASRGDSTGVELVVNYDFPPTLQD  
YIHRAGRVGRVGSEVPGTVISFVTHPWVSLVQKIELAARRRRSLPGLASSVKEPLPQAT

>sp|O15523|DDX3Y\_HUMAN ATP-dependent RNA helicase DDX3Y OS=Homo sapiens GN=DDX3Y PE=1  
SV=2

MSHVVVKNPELDQQLANLDLNSEKQSGGASTASKGRYIPPHLRNREASKGFHDKDSSGW  
SCSKDKDAYSSFGSRDSRGKPGYFSESGSGSRGRFDDRGRSDYDIGNRERPGFGRFERS  
GHSRWCDKSVEDDWSKPLPPSERLEQELFSGGNTGINFEKYDDIPVEATGSNCPPHIENF  
SDIDMGEIIMGNIELTRYTRPTPVQKHAIP I IKGKRDLMACAQTGSGKTA AFLLPILSQI  
YTDGPGEALKAVKENGRYGRRKQYPI SLVLAPTRELAVQIYEEARKFSYRSRVRPCVVYG  
GADIGQQIRDLERGCHLLVATPGRLVDMMERGKIGLDFCKYLVLEADRMLDMGFEPQIR  
RIVEQDTMPKGVHRHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVGSTENITQKVWVW  
EDLDKRSFLLDILGATGSDSLTLVFVETKKGADSLDFLYHEGYACTSIHGDRSQRDREE  
ALHQFRSGKSPILVATAVAARGLDISNVRHVINFDLPSEIEEYVHRIGRTGRVGNLGLAT  
SFFNEKNMNITKDLLDLVEAKQEVPSWLENMAYEHYKGGSRGRSKSNRFGSGFGARDY  
RQSSGSSSSGFGASRGSSSRSGGGGYGNSRGFGGGGYGGFYNSDGYGGNYNSQGVDDWGN

>sp|Q9NXZ2|DDX43\_HUMAN Probable ATP-dependent RNA helicase DDX43 OS=Homo sapiens GN=DDX43  
PE=2 SV=2

MSHHGGAPKASTWVVASRRSSTVSRAPERPAEELNRTGPEGYSVGRGGRWRGTSRPPEA  
VAAGHEELPLCFALKSHFVGAVIGRGGSKIKNIQSTTNTTIQIIQEQPESLVKIFGSKAM  
QTKAKAVIDNFVKLEENYNSECGIDTAFQPSVGKDGSTDNNVAGDRPLIDWDQIREEG  
LKWQKTKWADLPPIKKNFYKESTATSAMSKEADSWRKENFNITWDDLKDGEKRPINPT  
CTFDDAFQCYPEVMENIKKAGFQKPTPIQSQA WPIVLQGIDLIGVAQTGTGKTLCYLMPG  
FIHLVLQPSLKGQRNRP GMLVLTPTRELALQVEGECCKYSYKGLRSVCVYGGGNRDEQIE  
ELKKGVDI I IATPGRLNDLQMSNFVNLKNITYLVLEADKMLDMGFEPQIMKILLDVRPD  
RQVTMTSATWPHSVHRLAQSYLKEPMIVYVGTLDLVAVSSVKQNIIVTTEEEKWSHMQTF  
LQSMSSTDKVIVFVSRKAVADHLSSDLILGNISVESLHGDREQRDREKALENFKTGKVI  
LIATDLASRGLDVHDVTHVYNDFPRNIEEYVHRIGRTGRAGRTGVSITTLTRNDWRVAS  
ELINILERANQSIPEELVSMAERFKAHQKQKREMERKMERPQGRPKKFH

>sp|Q7L014|DDX46\_HUMAN Probable ATP-dependent RNA helicase DDX46 OS=Homo sapiens GN=DDX46  
PE=1 SV=2

MGRESRHYRKRSASRGRSGSRSRSPSDKRSKRGDDRRSRSDRRRRERSRSRDKRRS  
RSRDRKRLRRSRSRERDRSRERRRSRSDRRRSRSRSGRRSRSSSPGNKSKKTENRSRS  
KEKTDGGESSKEKKKDKDDKEDEKEKDAGNFDQNKLEEMRKRKERVEKWREEQRKKAME  
NIGELKKEIEEMKQGKKWSLEDDDDDDPAEAEKEGNEMEGEELDPLDAYMEEVKEEVK  
KFNMRSVKGGGNEKKSGPTVTKVTVVTTKKA VVDSDKKKGELMENDQDAMEYSSEEEE  
VDLQTALTGYQTKQRKLLPEVDHGKIEYEPFRKNFYVEPELAKMSQEEVNVFRLEMEGI  
TVKKGKCPKPIKSWVQC GISMKILNSLKKHGYEKP TPIQTQAIPAIMSGRDLIGIAKTGS  
GKTIAFLLPMFRHIMDQRSLEE GEP IAVIMTPTRELALQITKECKKFSKTLGLRVVCVY  
GGTGISEQIAELKRGAEIIVCTPGRMIDMLAANSGRVTNLRRVTYVVLDEADRMFDMGFE  
PQVMRIVDNVRPDRQTVMF SATFP RAMEALARRILSKPIEVQVGGRSVVCSDVEQQVIVI  
EEEKKFLKLELLGHYQESGVIIFVDKQEHADGLLKDLMRASYPMSLHGGIDQYDRDS  
IINDFNKGTCKLLVATSVAARGLDVKHLILVVNYSCPNHYEDYVHRAGRTGRAGNKGYAY  
TFITEDQARYAGDIIKALELSGTAVPPDLEKLWSDFKDQQAEGKIIKKSSGFSKGKFKF

DETEQALANERKKLQKAALGLQSDDEDAAVDIDEQIESMFNSKKRVKDMAAPGTSSVPA  
PTAGNAEKLEIAKRLALRINAQKNLGIESQDVMQQATNAILRGGTILAPTWSAKTIAEQL  
AEKINAKLNYVPLEKQEERQDGGQNESFKRYEELEINDFPQTARWKVTSKEALQRISE  
YSEAAITIRGTYPFGKEPKEGERKIYLAIESANELAVQKAKAEITRLIKEELIRLQNSY  
QPTNKGRYKVL

>sp|Q9Y6V7|DDX49\_HUMAN Probable ATP-dependent RNA helicase DDX49 OS=Homo sapiens GN=DDX49  
PE=1 SV=1

MAGFAELGLSSWLVEQCRQLGLKQPTPVQLGCIPAILGRDCLGCAKTGSGKTAAFVLP  
LQKLSDEPYGIFCLVLTPTRELAYQIAEQFRVLGKPLGLKDCIIVGGMDMVAQALELSRK  
PHVVIATPGRADHLRSSNTFSIKKIRFLVMDEADRLLEQGCTDFTVDLEAIIAAVPARR  
QTLLFSATLTDTLRELQGLATNQPFWEAQAPVSTVEQLDQRYLLVPEKVKDAYLVHLIQ  
RFQDEHEDWSIIIFTNTCKTCQILCMLLRKFSFPTVALHSMMKQKERFAALAKFKSSIYR  
ILIATDVASRGLDIPTVQVVIHNTPLPKIYIHRVGR TARAGRQGGQAITLVTQYDIHLV  
HAIEEQIKKKLEEFVVEAEVLQILTQVNVVRRECEIKLEAAHFDEKKEINKRKQLILEG  
KDPDLEAKRKAELAKIKQKNRRFKEKVEETLKRQKAGRAGHKRPPRTPSGSHSGPVPSQ  
GLV

>sp|Q8N8A6|DDX51\_HUMAN ATP-dependent RNA helicase DDX51 OS=Homo sapiens GN=DDX51 PE=1  
SV=3

MALFYVARYPGPDAAAAGPEGAEAGAHGRARALLERLQSRARERQQQREPAQTEAAAST  
EPATRRRRRRRRRRRVNDAEPGSPAPQGGKRRKADGEDAGAESNEEAPGEPSSAGSSEEAP  
GEPSSAGSSEEAPGERSTSASAEAAPDGPALAEAAAGPLVPLVLGGFGKRKAPKVQPFPLP  
WLAEPNCVRRNVTEDLVPIEDIPDVHPDLQKQLRAHGISSYFPVQAAVIPALLESAACGF  
LVGRGGYRPSDLCSAPTGSGKTAFVIVVQALLSRVCHIRALVVLPTKELAQGVSKV  
FNIYTDATPLRVSLVTGQKSLAKEQESLVQKTADGYRCLADIVVATPGRVDHIDQTPGF  
SLQQLRFLIIDADRMDSMHQS WLPRVAAAFQSEDPADPCALLQRRQAQAVTAASTCC  
PQMPLQKLLFSATLTQNPEKLQQLGLHQPRLFSTGLAHRGLEDTDGDGDSGKYAFPVGLT  
HHYVPCSLSSKPLVVLHLVLEMGFSRVLCFTNSRENSHRLFLLVQAFGGVDVAEFSSRYG  
PGQRRMILKQFEQGIQLLISDTATARGIDVQGVELVVNYDAPQYLRTYVHRVGR TARAG  
KTGQAF TLLLKVQERRFLRMLTEAGAPELQRHELSSKLLQPLVPRYEEALSQLEESVKEE  
RKQRAA

>sp|Q8TDD1|DDX54\_HUMAN ATP-dependent RNA helicase DDX54 OS=Homo sapiens GN=DDX54 PE=1  
SV=2

MAADKGPAAGPRSAAMAQWRKKKGLRKRRGAASQARGSDSEDFEIEQAEDDARARKLG  
PGRPLPTFPTSECTSDVEPD TREMVRAQNKKKKKSGGFQSMGLSYPVFKGIMKKGYKVPT  
PIQRKTIPVILDGKDVAMARTGSGKTACFLPMFERLKTHSAQTGARALILSPTRELAL  
QTLKFTKELGKFTGLKTALILGGDRMEDQFAALHENPDII IATPGRLVHVAVEMSLKLQS  
VEYVVFDEADRLFEMGFAEQLQEIIARLPGGHQTVLFSATLPKLLVEFARAGLTPEVLIR  
LDVDTKLNEQLKTSFFLVREDTKAAVLLHLLHNVVRPQDQTVVFVATKHHAEYLTELLTT  
QRVSCAHIYSALDPTARKINLAKFTLGKCS TLIVTDLAARGLDIPLLDNVINYSFPAK GK  
LFLHRVGRVARAGRSGTAYSLVAPDEIPYLLDLHLFLGRSLTLARPLKEPSGVAGVDGML  
GRVPQSVVDEEDSGLQSTLEASLELRGLARVADNAQQQYVRSRPAPSPESIKRAKEMDLV  
GLGLHPLFSSRFEEELQRLRLVDSIKNYRSRATIFEINASSRDLCSQVMRAKRQKDRKA  
IARFQQGQQGRQEQQEGPVGPAPSRPALQEKQPEKEEEEEAGESVEDIFSEVVGRKRQRS  
GPNRGAKRRREEARQDQEFYIPYRPKDFDSERGLSISGEGGA FEQQAAGAVLDLMGDEA

QNLTRGRQQLKWDKRRFVGGSGQEDKKKIKTESGRYISSSYKRDLYQKWKQKQKIDDR  
DSDEEGASDRRGPERRGGRDRGQGASRPHAGTPAGRVPELKTQKQILKQRRRAQKLH  
FLQRGGLKQLSARNRRRVQELQQGAFGRGARSKKGKMRKRM

>sp|Q01523|DEF5\_HUMAN Defensin-5 OS=Homo sapiens GN=DEFA5 PE=1 SV=1

MRTIAILAAILLVALQAQAESLQERADEATTQKQSGEDNQDLAISFAGNGLSALRTSGSQ  
ARATCYCRTGRCATRESLSGVCEISGRLYRLCCR

>sp|O15121|DEGS1\_HUMAN Sphingolipid delta(4)-desaturase DES1 OS=Homo sapiens GN=DEGS1  
PE=1 SV=1

MGRSVSREDFEWVYTDQPHADRRREILAKYPEIKSLMKPDPNLIWIIIMMVLTLQGAFYI  
VKDLDWKWVIFGAYAFGSCINHSMTLAIHEIAHNAAFNGCKAMWNRWFGMFANLPIGIPY  
SISFKRYHMDHHRYLADGVDDIPTDFEGWFFCTAFRKFIVILQPLFYAFRPLFINPK  
PITYLEVINTVAQVTFDILIIYFLGIKSLVYMLAASLLGLGLHPISGHFIAEHYMFLLKH  
ETYSYYGPLNLLTFNVGYHNEHDFPNIPGKSLPLVRKIAAEYYDNLPHYNSWIKVLYDF  
VMDDTISPYSRMKRHKQKGMVLE

>sp|Q9H6A0|DEN2D\_HUMAN DENN domain-containing protein 2D OS=Homo sapiens GN=DENND2D PE=1  
SV=2

MEGQVVGVRVFRLLQRRLLQLRAGPPQDNSGEALKEPERAQEHSLPNFAGGQHFFEYLLV  
SLKKKRSEDDYEPITTYQFPKRENLLRGQEEEEERLLKAIPFCFPDGNWASLTEYPRE  
TFSFVLTNVDGSRKIGYCRLLPAGPGPRLPKVYCIISCIGCFGLFSKILDEVEKRHQIS  
MAVIYPMQGLREAAFPAGKTVTLKSFIPDSGTEFISLTRPLDSHLEHVDSSLLHCLS  
FEQILQIFASAVLERKIIFLAEGSLTSCQIHAAAALLYPFSWAHTYIPVPESLLATVC  
CPTPFMVGVMRFQEQVMDSPMEVLLVNLCEGTFMLMSGDEKDILPPKLQDDILDLSLGQ  
GINELKTAEQINEHVSFPFVQFFVKIVGHYASYIKREANGQGHFQERSFCKALTSKTNRR  
FVKKFVKTKLFLSFIQEAESKSNPPAGYFQQKILEYEEQKKQKPREKTVK

>sp|Q5VZ89|DEN4C\_HUMAN DENN domain-containing protein 4C OS=Homo sapiens GN=DENND4C PE=1  
SV=2

MGATIECWDPETKYPLPVFSTFVLTGSSAKKVYGAAIQFYEPYSRELLSEKQMLHLLT  
PVERKMVSKSINTNKCICLLSHWPFFAFRKFMLFIYKLSVSGPHPLPIEKHISHFMQNI  
PFPSPQRPRILVQLSVHDALILSQPVSTPLPLSGANFSTLLMNLGPENCATLLLFVLES  
KILLHSLRPAVLTGVAEAVVAMIFPFQWQCPYIPLCPLSLAAVLSAPLPFIVGVDSRYFD  
LHDPQDVVCIDLDTNMLYVSDEKKNMNWKQLPKKPKCNLLSTLKKLYPQLSSVHKTQE  
GSAIDMTPIEADFSWQKKMTQLEMEIQEAFLRFMASILKGYRTYLRPITEAPSNKATAAD  
SLFDRQGFLKSRDRAYAKFYTLSTKQIFIRFIECSFVSDKDTGLAFFDDCIEKLPDK  
GTEKTDKVDSDAEDTRLIELDSSQKSEHTVFIMPPEPPDDGKDLSPKYSYKYFPRDL  
KLFDRPQELKLCFSRHPTGNSITKSPPLMAKRTKQEIKTAHKLAKRCYTNPQWAKCLFS  
HCYSLWFICLPAYVRVSHPKVRALQQAYDVLKMRKTDVDPLDEVYRVVMQLCGLWGHP  
VLAVRVLFEMKTARIKPNAITGYNKNVLESPWPSSTRSGIFLWTKVRNVVRGLAQFRQ  
PLKKTQVRSQVSSISGGQSDQGYGSKDELKDDAEIHVPPEQAARELITKTKMQTEEVCD  
ASAIVAKHSQPSPEPHSPTEPPAWGSSIVKVPSGIFDVNSRKSSTGSISNVLFSTQDPVE  
DAVFGEATNLKKNDRGEKRQKHFPERSCSFSSES RAGMLLKSSLDNSSEMAIMMGAD  
AKILTAALTCPKTSLLHIARTHSFENVSCHLPDSRTCSESTWNPEHRSSPVPEMLEESQ  
ELLEPVVDDVPKTTATVDTYESLLSDSNSNQSRDLKTVSKDLRNKRSSLYGIAKVQRED  
VETGLDPLSLLATECTGGKTPDSEDKLFSPVIARNLADEIESYMNLSPLGSKSSMELH  
REENRESGMTTAFIHALERRSSLPLDHGSPAQENPESEKSSPAVSRSKTFTGRFKQQTPS

RTHKERSTSLALVRSSPHGSLGSVVNSLSGLKLDNILSGPKIDVLKSGMKQAATVASKM  
WVAVASAYSYSDDDEETNRDYSFPAGLEDHILGENISPNTSISGLVPSELTQSNTSLGSS  
SSSGDVGKLHYPTGEVPPFRGMKGQDFEKSDHGSSQNTSMSSYQNCAMEVLMSSCSQCR  
ACGALVYDEEIMAGWTADDSNLNTACPFCKSNFLPLLNIEFKDLRGSASFFLKPSTSGDS  
LQSGSIPLANESLEHKPVSSLAEPDLINFMDFPKHQIITEETGSAVEPSDEIKRASGDV  
QTMKISSVPNSLSKRNVSLTRSHSVGGPLQNIIDFTQRPFHGISTVSLPNSLQEVVDPLGK  
RPNPPVSVPYLSPLVLRKELESLENEGDQVIHTSSFINQHPIIFWNLVWYFRRLDLP  
NLPGLILTSEHCNEGVLPLSSLSQDSKLVYIQLLWDNINLHQEPREPLYVSWRNFNSEK  
KSSLLSEEQQETSTLVETIRQSIQHNNVLKPINLLSQMKPGMKRQRSYREILFLSLVS  
LGRENIDIEAFDNEYGIAYNSLSSEILERLQKIDAPPSASVEWCRKCFGAPLI

>sp|Q8NEG7|DEN6B\_HUMAN Protein DENND6B OS=Homo sapiens GN=DENND6B PE=2 SV=1

MDALLGTGPRRARGCLGAAGPTSSGRAARTPAAPWARFSAWLECVCVVTFDLELGQALEL  
VYPNDFRLTDKEKSSICYLSFPDSHSGCLGDTQFSFRMRQCGGQRSPWHADDRHYNSRAP  
VALQREPAHYFGYVYFRQVKDSSVKRGYFQKSLVLVSRLPFVRLFQALLSLIAPEYFDKL  
APCLEAVCSEIDQWPAPAGQTLNLPVMGVVQVRIPSRVDKSESSPPKQFDQENLLPAP  
VVLASVHELDLFRCFRPVLTHMQTLWELMLLGEPLLVAPSPDVSSSEMLALTSCQLPLR  
FCCDFRPYFTIHDSEFKEFTTRTQAPPNVVLGVTNPFIKTLQHWPHILRVGEPKMSGDL  
PKQVKLKKPSRLKTLDTKPLYTAYTAHLHRDKALLKRLKGVQKKRPSDVQSALLRRHL  
LELTQSFIIIPLEHYMASLMPLQKSITPWKTPPQIQPFSQDDFLRSLEHAGPQLTCILKGD  
WLGLYRRFFKSPHFDGWYRQRHKEMALKLEALHLEAICEANIETWMKDKSEVEVDVLK  
LREKLVRAGQHQLPVKEATLQRAQLYIETVIGSLPKDLQAVLCPP

>sp|Q8N2C3|DEPD4\_HUMAN DEP domain-containing protein 4 OS=Homo sapiens GN=DEPDC4 PE=2  
SV=1

MVPGEEPARELMAVLLTPRFRRLVSQNELPGPLNGPSSRNRRDGFCKRRTGCSGPFQA  
TQLWDGIIHSLQAQVEIKRRRHLLQTYKDCFTGSDAVDVVLSHLMQNTCLSSNDISCLKG  
VHLCQVLMNHKVFEVPVGMKKLFKKEKELEFEDSNISLYRFLGNKSSYDCCKRQKDAENEF  
NETLRPGYEMISNPLAQEIGEERIEELIHTINGNPALCPNITVQKPFLRLSKEDVWKEQT  
LLCLLQLIHLPLFDNILEPPVKTNLQLNKEEDLVITNTCLDRELIPSLCLPEK

>sp|O75140|DEPD5\_HUMAN DEP domain-containing protein 5 OS=Homo sapiens GN=DEPDC5 PE=1  
SV=2

MRTTKVYKLVIIHKKGFGGSDDELVVNPVFPPIKLGDIVETIAHPNDEYSPLLLQVKSLE  
DLQKETISVDQTVTVQVRLRPYQDVYVNVDPKDVTLDELVELTFKDQYIGRGMWRLKKS  
LVSTCAYITQKVEFAGIRAQAGELWVKNEKVMCGYISEDTRVVFRSTSAMVYIFIQMSCE  
MWDFDIYGDLYFEKAVNGFLADLFTKWKKEKNCSEVTTVLFSRTFYDAKSVDEFPEINRA  
SIRQDHHKGRFYEDFYKVVVQNERREEWTSLLVTIKKLFIQYPVLVRLEQAEGFPQGDNST  
SAQGNYLEAINLSFNVFDKHYINRNFDRTGQMSVVITPGVGVEVDRLMLITKQRMIDN  
GIGVDLVCMEQPLHAVPLFKLHNRSAPRDSRLGDDYNIPHWINHSFYTSKSQLFCNSFT  
PRIKLAGKKPASEKAKNGRDTSLGSPKESENALPIQVDYDAYDAQVFRLPGPSRAQCLTT  
CRSVRERESHRSKASSCDVSSPSLPSRTLPTEEVRSQASDDSSLGKSANILMIPPHL  
HQYEVSSSLGYTSTRDVLENMMEPPQRDSSAPGRFHVGSAESMLHVRPGGYTPQRALINP  
FAPSRMPMKLTSNRRRWMTFPVGPGEAIQIHHQTRQNMAELQGGGQRDPHSSAELLE  
LAYHEAAGRHSNSRQPGDGMSFLNFSGTEELSVGLLSNSGAGMNPRTQNKDSLEDSVSTS  
PDPILTLAPPVVPFGCCTVGVDWKSLLTPACLPLTTDYFPDRQGLQNDYTEGCYDLLPE  
ADIDRRDEDGVQMTAQQVFEEFICQRLMQGYQIIVQPKTQKPNPAVPPPLSSSPLYSRGL



VSRNRPEEDQYWLSMGRTFHKVTLKDKMITVTRYLPKYPYESAQIHITYSLCPSHSDSE  
FVSCWVEFSHERLEEYKWNLYLDQYICSAGSEDFSLIESLKFWRTRFLLLPACVTATKRIT  
EGEAHCDIYGRPRADEDEWQLLDGFVRVFEGLNRIRRRHRSRMMRKTAMKGLQMTGP  
ISTHSLESTAPPVGKGTSALESALLEMEASQKCLGEQQAAPHVGGKSSAQSAESSVAMTP  
TYMDSRPRKDGAFMEFVRSRPTASSAFYPQVSVDQTATPMLDGTSLGICTGQSMRGNSQ  
TFGNSQNIQEGQYSSNTSSDSSSQQLVASSLTSSSTLTEILEAMKHPSTGVQLSEQKGL  
SPYCFISAEVVHVLNVHVEGIQTQAMAIDIMQKMLEEQLITHASGEAWRTFIYGFYFYKI  
VTDKEPDRVAMQQPATTWHTAGVDDFASFQQRKWFVAFVAEELVHSEIPAFLLPWLPSRP  
ASYASRHSSFSRSFGGRSQAALLAATVPEQRTVTLDVDVNNRTDRLEWCSCYYHGNFSL  
NAAFEIKLHWMATAVLFEMVQGWHRKATSCGFLLVPVLEGPALPSYLYGDPLRAQLF  
IPLNISCLLKEGSEHLFDSFEPETYWDRMHLFQEATAHRFGFVQDKYSASAFNFPANPKP  
QYIHVTGTVFLQLPYSKRKFSGQRRRRNSTSTNQNMFCERVGYNWAYNTMLTKTWRS  
SATGDEKFADRLLKDFDTDFCINRDNRLVTFWTSCLEKMHASAP

>sp|Q05D60|DEUP1\_HUMAN Deuterosome assembly protein 1 OS=Homo sapiens GN=DEUP1 PE=1 SV=2

MENQAHTMTGTPCEAELQELMEQIDIMVSNKKMDWERKMRALETRLDLRDQELANAQTC  
LDQKGQEVGLLRQKLDSEKCNLMTQNYEGQLQSLKAQFSKLTNNFEKLRHLHQMKNKV  
PRKELPHLKEEIPFELSNLQKLEEFRAKSREWQKEIILYQTHLISLDAQKLLSEKCNQ  
FQKQAQSYQTQLNGKKQCLEDSSSEIPRLICDPDPNCEINERDEFIEKLKSAVNEIALS  
RNKLQDENQKLLQELKMYQRQCAMEAGLSEVKSELQSRDILLRIEMERLQLHRELLKI  
GECQNAQGNKTRLESSYLPSIKEPERKIKELFSVMQDQPNHEKELNKIRSQQLQVVEEYHN  
SEQERMNEISDLTEELHKEITITATVTKKAALLEKQLKMELEIKEKMLAKQKVSMDMYK  
AVRTENTHLKGMMDLDPGEYMSMDFTNREQSRHTSINKLQYENERLRNDLAKLHVNGKS  
TWTNQNTYEETGRYAYQSQIKVEQNEERLSHDCEPNRSTMPPLPSTFQAKEMTSPLVSD  
DDVFPSPDMSFPASLAAQHFLLEEEKRAKELEKLLNTHIDELQRHTEFTLNKYSKLKQ  
NRHI

>sp|Q7Z5P4|DHB13\_HUMAN 17-beta-hydroxysteroid dehydrogenase 13 OS=Homo sapiens  
GN=HSD17B13 PE=1 SV=1

MNIILEILLITIIYSYLESLVKFFIPQRRKSVAGEIVLITGAGHGIGRQTTEYFAKRQ  
SILVLWDINKRGVEETAACRKLGVTAHAYVVDSCNREEIYRSLNQKKEVGDTVIVNN  
AGTVYPADLLSTKDEEITKTFEVNILGHFWITKALLPSMMERNHGHIVTVASVCGHEGIP  
YLIPYCCKFAAVGFHRGLTSELQALGKTGIKTSCLCVPVNTGFTKNPSTRLWPVLETD  
EVVRSILDGILTNNKMFVPSYINIFRLRLQKFLPERASAILNRMQNIQFEAVVGHIKIMK

>sp|Q9BPX1|DHB14\_HUMAN 17-beta-hydroxysteroid dehydrogenase 14 OS=Homo sapiens  
GN=HSD17B14 PE=1 SV=1

MATGTRYAGKVVVTGGGRGIGAGIVRAFNNSGARVVICDKDESGRALQELPGAVFIL  
CDVTQEDDVKTLVSETIRRFGRLCDVVNNAGHPPQRPEETSAQGRQLLELNLLGTYT  
LTKLALPYLRKSQGNVINISSLVGAIGQAQAVPYVATKGAVTAMTKALALDESPYGVVRN  
CISPGNIWTPLEELAALMPDPRATIREGMLAQPLGRMGQPAEVGAAVFLASEANFCTG  
IELLVGTGAELGYGCKASRSTPVDAPDIPS

>sp|P14061|DHB1\_HUMAN Estradiol 17-beta-dehydrogenase 1 OS=Homo sapiens GN=HSD17B1 PE=1  
SV=3

MARTVVLITGCSSGIGLHLAVRLASDPSQSFKVYATLRDLKTQGRLEWAAARALACPPGSL  
ETLQLDVRDSKSVAAARERVTEGRVDVLCNAGLGLLGPALGEDAVASVLDVNVVGTG  
RMLQAFLPDMKRRGSGRVLVTGSVGGLMGLPFNDVYCASKFALEGLCESLAVLLLPGFVH

LSLIECGPVHTAFMEKVLGSPEEVLDRDTIHFTFHRFYQYLAHASKQVFREAAQNPEEVAEV  
FLTALRAPKPTLRYFTTERFLPLLRMLDDPSGSNYVTAMHREVFGDVPKAEAGAEAGG  
GAGPGAEDGAVGDPELGDPPAAPQ

>sp|P51659|DHB4\_HUMAN Peroxisomal multifunctional enzyme type 2 OS=Homo sapiens  
GN=HSD17B4 PE=1 SV=3

MGSPLRFDGRVVLVTGAGAGLGRAYALAFARGALVVNDLGGDFKGVKGSLAADKVVE  
EIRRRGGKAVANYDSVEEGEKVVKTALDAFGRIDVVVNNAGILRDRSFARISDEDWDIIH  
RVHLRGSFQVTRAAWEHMKKQKYGRIIMTSSASGIYGNFGQANYSAAKLGLLGLANSLAI  
EGRKSNIHCNTIAPNAGSRMTQTVMPEDLVEALKPEYVAPLVWLCHESCEENGGLFEVG  
AGWIGKLRWERTLGAIVRQKNHPMTPEAVKANWKKICDFENASKPQSIQESTGSIIEVLS  
KIDSEGGVSANHTSRATSTATSGFAGAIGQKLPPFSYAYTELEAIMYALGVGASIKDPKD  
LKFIYEGSSDFSCLPFTGVIIGQKSMGGGLAEIPGLSINFAKVLHGEQYLELYKPLPRA  
GKLKCEAVVADVLDKSGSVIIMDVYSYSEKELICHNQFSLFLVSGGGFGGKRTSDKVKV  
AVAI PNRPDAVLTDTSLNQAALYRLSGDWNPLHIDPNFASLAGFDKPI LHGLCTFGFS  
ARRVLQQFADNDVSRFAIKARFAKPVYPGQTLQTEMWKEGNRIHFQTKVQETGDIVISN  
AYVDLAPTSAGTSAKTPSEGGKLQSTFVFEEIGRRLKDIGPEVVKKVNAVFEWHITKGGNI  
GAKWTIDLKSGSGKVYQGPAGAADTTIILSDEDFMEVVLGKLDPPQKAFFSGRLKARGNI  
MLSQKLQMILKDYAKL

>sp|Q92506|DHB8\_HUMAN Estradiol 17-beta-dehydrogenase 8 OS=Homo sapiens GN=HSD17B8 PE=1  
SV=2

MASQLQNRLSALALVTGAGSGIGRAVSRLAGEGATVAACDLDRAAAQETVRLLGGPGS  
KEGPPRGNHAAFQADVSEARAARCLLEQVQACFSRPPSVVSCAGITQDEFLLHMSEDDW  
DKVIAVNLKGTFLTQAAAQALVSNGCRGSIINISSIVGKVGNGQTNYAASKAGVIGLT  
QTAARELGRHGIRCNSVLPGFATPMTQKVPQKVVDKITEMIPMGLGDPEDVADVVAFL  
ASEDSGYITGTSVEVTGGLFM

>sp|Q96HY7|DHTK1\_HUMAN Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1,  
mitochondrial OS=Homo sapiens GN=DHTKD1 PE=1 SV=2

MASATAAAARRGLGRALPLFWRGYQTERGVYGYRPRKPESREPQGALERPPVDHGLARLV  
TVYCEHGHKAAKINPLFTGQALLENVPEIQALVQTLQGPFH TAGLLNMGKEEASLEEVLV  
YLNQIYCGQISIETSQSQDEKDWFAKRFEELQKETFTTEERKHL SKLMLESQEFDFHL  
ATKFSTVKRYGGEAESMMGFFHELLKMSAYSGITDVIIGMPHRGRLLNLTGLLQFPPEL  
MFRKMRGLSEFPENFSATGDVLSHLTSSVDLYFGAHHPLHVTMLPNPSHLEAVNPVAVGK  
TRGRQQSRQDGDYSPDNSAQPGDRVICLQVHGDA SFCGQGIVPETFTLSNLPHFRIGGSV  
HLIVNNQLGYTTPAERGRSSLYCSDIGKLVGCAI IHVNGDSPEEVVRATRLAF EYQRQFR  
KDVIIDLLCYRQWGHNELDEPFYTNPI MYKII RARKSIPDTYAEHLIAGGLMTQEEVSEI  
KSSYYAKLNDHLNMAHYRPPALNLQAHWQGLAQPEAQITTWSTGVPLDLLRFVGMKSVE  
VPRELQMHSLLKTHVQSRMEKMDG IKLDWATAEALALGSLLAQGFNVRLSGQDVGRGT  
FSQRHAI VVCQETDDTYIPLNHMDPNQKGFLEVSN SPLSEEAVLGF EYGMSTIESPKLLPL  
WEAQFGDFFNQAII FDTFISGGEAKWLLQSGIVILLPHGYDGAGPDHSSCRIERFLQMC  
DSAEEGVDGDTVNMVFVHPTTPAQYFHLLRRQMVRNFRKPLIVASPKMLLR LPAAVSTLQ  
EMAPGTTFNPVIGDSSVDPKKVKT LVFCSGKH FYSLVKQRESLGAKKHDFAIIRVEELCP  
FPLDSLQQEMSKYKHVKDHIWSQEEPQNMGPWSFVSPRFEKQLACKLRLVGRPPLPVPVAV  
GIGTVHLHQHEDILAKTFA

>sp|060231|DHX16\_HUMAN Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16  
OS=Homo sapiens GN=DHX16 PE=1 SV=2

MATPAGLERWVQDELHSLVGLSERHVAQFLIGTAQRCTSAEEFVQRLRDTDTLDLSGPAR  
DFALRLWNKVPRKAVVEKPARAAEREARALLEKNRSYRLLEDSEESSEETVSRAGSSLQK  
KRKKRKHRLKKREEEEEEEASEKGKKKTGGSKQQTEKPESEDEWERTERERLQDLEERDA  
FAERVQRQDKDRTRNVLERSDKKAYEEAQKRLKMAEEDRKAMVPELRKKSREYLAKRER  
EKLEDELAELADEEFLFGDVLSRHERQELKYKRRVRDLAREYRAAGEQEKLEATNRYHM  
PKETRGGPARAVDLVEESGAPGEEQRRWEEARLGAASLKFGARDAASQEPKYQLVLEEE  
ETIEFVRATQLQGDEEPSAPPTSTQAQQKESIQAVRRSLPVFPFRELLAAIANHQLII  
EGETGSGKTTQIPQYLFEEGYTNKGMKIACQPRRVAAMSVAARVAREMGVKLGNEVGYS  
IRFEDCTSERTVLRMTDGMLLREFLSEPDLASYSVVMVDEAHERTLHTDILFGLIKDVA  
RFRPELKVLVASATMDTARFSTFFDDAPVFRIPGRRFPVDIFYTKAPEADYLEACVSVL  
QIHVTQPPGDILVFLTGQEEIEAACEMQLQDRCRRLGSKIPELLVLPPIYANLPSDMQARIF  
QPTPPGARKVVVATNIAETSLTIEGIIYVLDPGFCKQKSYNPRTGMESLTVTPCSKASAN  
QRAGRAGVAAGKCFRLYTAWAYQHELEETVPEIQRTSLGNVLLKSLGIHDLMHFDF  
LDPPPYETLLLALEQLYALGALNHLGELTTSGRKMAELPVDPMLSKMILASEKYSCSEEI  
LTVAAMLVNNISIFYRPDKVHVHADNARVNFPLPGGDHLVLLNVYTQWAESGYSSQWCYE  
NFVQFRSMRRARDVREQLEGLLERVEVGLSSCQGDYIRVRKAITAGYFYHTARLTRSGYR  
TVKQQQTVFIHPNSSLFEQQPRWLLYHELVLTTKEFMRQVLEIESSWLLLEVAPHYYKAKE  
LEDPHAKKMPKKIGKTREELG

>sp|Q9H5Z1|DHX35\_HUMAN Probable ATP-dependent RNA helicase DHX35 OS=Homo sapiens GN=DHX35  
PE=1 SV=2

MAAPVGPVKFWRPGTEGPGVSISEERQSLAENSGTTVVYNPYAALSIEQQRQKLPVFKLR  
NHILYLIENYQTVVIVGETGCGKSTQIPQYLAEAGWTAEGRVVGVTPRRVAAVTVAGRV  
AEERGAVLGHEVGYCIRFDDCTQLATRIKFLTDGMLVREMMVDPLLTKYSVIMLDEAHE  
RTLYTDIAIGLLKKIQKKRGDLRLIVASATLDADKFRDFFNQNETSDPARDTCVILTVEG  
RTFPVDIFYLQSPVPDYIKSTVETVVKIHQTEGDGDLAFLTGQEEVETVVSMLIEQARA  
LARTGMKRHLRVLPMYAGLPSFEQMKVFERVSRSVRKVIVATNVAETSITISGIVYVDC  
GFVKLRAYNPRTAIECLVVVPVSQASANQRAGRGRSRSGKCYRLYTEEAFDKLPQSTVP  
EMQRSNLAPVILQLKALGIDNVLRHFHMSPPPAQSMVQALELLYALGGLDKDCRLTEPLG  
MRIAEPFLNPMFAKMLLESNGFGCSQEILSIAAMMIQINIFVVPNQKSHAIRVHRKFAV  
EEGDHLMNLNIYEAFLKHNKSKWCQEHFLNYKGLVRAATVREQLKLLVKFQVPRKSSE  
GDPDLVLR CIVSGFFANAARFHSTGAYRTIRDDHELHIHPASVLYAEKPPRWVIYNEVIQ  
TSKYMRDVTATIESAWLLELAPHFYQQGTHLSLKAKRAKVQDP

>sp|Q9H2U1|DHX36\_HUMAN ATP-dependent RNA helicase DHX36 OS=Homo sapiens GN=DHX36 PE=1  
SV=2

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EIGMWYAKKQGGKNKEAERQERAVVHMDERREEQIVQLLSVQAKNDKESEAQISWFAPE  
DHGYGTEVSTKNTPCSENKLDIQEKKLINQEKMFIRNRSYIDRDSEYLLQENEPDGT  
DQKLLDLQKKKNDLRYIEMQHFRKLP SYGMQKELVNLIDNHQVTVISGETGCGKTTQV  
TQFILDNYIERGKSACRIVCTQPRRISAI SAERVAERAESC GSGNSTGYQIRLQSRL  
PRKQGSILYCTTGIIQLWLSQDPYLSSVSHIVLDEIHERNLQSDVLMTVVKDLLNFRSDL  
KVILMSATLNAEFSEYFGNCPMIHIPGFTFPVVEYLLEDVIEKIRYVPEQKEHRSQFKR  
GFMQGHVNRQEKEEKEAIYKERWPDYVRELRRRYSASTVDV IEMMEDDKVDLNLIVALIR

YIVLEEDGAILVFLPGWDNISTLHDLMSQVMFKSDKFLIIPHLHSLMPTVNQTQVFKRT  
PPGVRKIVIATNIAETSITIDDVVYVIDGGKIKETHFDTQNNISTMSAEWVSKANAKQRK  
GRAGRVQPGHCYHLYNGLRASLLDDYQLPEILRTPLEELCLQIKILRLGGIAYFLSRLMD  
PPSNEAVLLSIRHLMELNALDKQEELTPLGVHLARLPVEPHIGKMILFGALFCCLDPVLT  
IAASLSFKDPFVIPLGKEKIADARRKELAKDTRSDHLTVVNAFEGWEEARRRGFRYEKDY  
CWEYFLSSNTLQMLHNMKGQFAEHLGAGFVSSRNPKDPESNINSNEKIIKAVICAGLY  
PKVAKIRLNLGKKRMVKVYTKTDGLVAVHPKSVNVEQTDHFYHNWLIYHLKMTSSIIYLY  
DCTEVSPYCLFFGGDISIQKDNQETIAVDEWIVFQSPARIAHLVKELRKELDILLQEK  
IESPHVPDWNDRKSDCAVLSAIIIDLIKTEKATPRNFPPRFQDGYYS

>sp|Q9NSV4|DIAP3\_HUMAN Protein diaphanous homolog 3 OS=Homo sapiens GN=DIAPH3 PE=1 SV=4

MERHQRLHHPAQGSAGTPYPSSASLRGCRESKMPRRKGPQHPPPSGPEEPGEKRPKF  
HLNIRTLTDDMLDKFASIRIPGSKKERPPLPNLKTAFASSDCSAAPLEMMENFPKPLSEN  
ELLELFEEKMEDMNLNEDKKAPLREKDFSIIKEMVMQYINTASKTGLKRSRQISPQEFI  
HELMGSADERLVTCESLRVSLTSNPVSWVESFGHEGLGLLLDILEKLISGKIQEKVVK  
KNQHKVIQCLKALMNTQYGLERIMSEERSLSLLAKAVDPRHPNMMTDVVKLLSAVCIVGE  
ESILEEVLEALTSAGEEKKIDRFFCIVEGLRHNSVQLQVACMQLINALVTSPDDLDFRLH  
IRNEFMRCGLKEILPNLKCIKNDGLDIQLKVFEHKEEDLFELSHRLEDIRAELEAYDV  
YNMVWSTVKETRAEGYFISILQHLLLIRNDYFIRQQYFKLIDECVSQIVLHRDGMDDPFT  
YRKRLDLDTQFVDICIDQAKLEEFEEKASELYKKFEKEFTDHQETQAEQKKEAKINEL  
QAEQAFKSQFGALPADCNIPLPSKEGGTGHSALEPPPPPLPSGGGVPPPPPPPPPPPLP  
GMRMPFSGVPVPPPPPLGFLGGQNSPPLPILPFLGPKPKKEFKPEISMRRNLWLKIRPHEMT  
ENCFWIKVNNENKYENVDLLCKLENTFCCQKKERREEEDIEEKKSIIKKIKELKFLDSKIA  
QNLSIFLSSFRVPYEEIRMMILEVDETRLAESMIQNLIKHLPDQEQNLSLSQFKSEYSNL  
CEPEQFVVVMSNVKRLRPRLSAILFKLQFEEQVNNIKPDIMAVSTACEEIKKSKSFSKLL  
ELVLLMGNYMNAGSRNAQTGFNLSSLCKLKDTSADQKTLLHFLVEICEEKYPDILNF  
VDDLEPLDKASKSVETLEKNLRQMGRQLQLEKELETFPPPEDLHDKFVTKMSRFVISA  
KEQYETLSKLHENMEKLYQSIIGYYAIDVKKVSVEDFLTDLNNFRTTFMQAIKENIKKRE  
AEEKEKRVRIAKELAERERLERQQKKRLLKEMKTEGDETGVMNLLLEALQSGAAFRDRRK  
RTPMPKDVRQSLSPMSQRPVLKVCNHNQKVQLTEGSRSHYNINCNSTRTPVAKELNYNL  
DTHSTGRIKAAEKKEACNVESNRKKETELLSFSKNEVPEVEALLARLRL

>sp|Q9UBX3|DIC\_HUMAN Mitochondrial dicarboxylate carrier OS=Homo sapiens GN=SLC25A10 PE=1 SV=2

MAAEARVSRWYFGGLASCGAACCTHPLDLLKVHLQTQQEVKLRTGMALRVVRTDGILAL  
YSGLSASLCRQMTYSLTRFAIYETVRDRVAKGSQGPLPFHEKVLLGSVSGLAGGFVGT  
DLVNVRMQNDVKLPQGQRRNYAHALDGLYRVAREEGLRRLFSGATMASSRGALVTVGQLS  
CYDQAKQLVLSTGYLSDNIFTHFVASFIAGGCATFLCQPLDVLKTRLMNSKGEYQGVFHC  
AVETAKLGPLAFYKGLVPAGIRLIPHTVLTFFVLEQLRKNFGIKVPS

>sp|Q9BTC0|DIDO1\_HUMAN Death-inducer obliterator 1 OS=Homo sapiens GN=DIDO1 PE=1 SV=5

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLS  
LRRSGRQPKRTERVEQFLTIIARRRGRRSMPSVLEDSGEPTSCPATDAETASEGSVESASE  
TRSGPQSASTAVKERPASSEKVKGGDDHDDTSDSDSDGLTLKELQNRLRRKREQEPTERP  
LKGIQSRLRKKRREEGPAETVGSEASDTVEGVLPSPKQEPENDQGVVSQAGKDDRESKLEG  
KAAQDIKDEEPDGLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDVCGIS  
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKS

SEDQGIKGRIEKAANPSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILK  
HAAATMKFLSSGKEQKPKPKKMKPEKPSLPKCGAQAGIKISSVHKRPAPEKKETTVK  
KAVVVPARSEALKEAACESSTPSWASDHYNNAVKEKTAAPSPSLLYKSTKEDRRSEEK  
AAAMAASKKTAPPGSAVGKQPAPRNLPKKSSFANVAAATPAIKKPPSGFKGTIPKRPWL  
SATPSSGASAARQAGPAPAAATAASKKFPGSAALVGAVRKPVVPSVPMASAPGRLGAMS  
AAPSQPNSQIRQNIIRSLKEILWKRVDSDDLIMTENEVGKIALHIEKEMFNLQVTDNR  
YKSKYRSIMFNLKDPKNQGLFHRVLRREEISLAKLVRLKPEELVSKELSTWKERPARSVME  
SRTLHNESKKTAPRQEAIPDLEDSPVSDSEEQQESARAVPEKSTAPLLDVFSSMLKDT  
TSQHRAHLFDLNCICTGQVPSAEDEPAPKKQKLSASVKKEDLKSKHDSAPDPAPDSAD  
EVMPEAVPEVASEPGLESASHPNVDRTYFPGPPGDGHPEPSPLEDLSPCPASCGSGVVT  
VTVSGRDPRTAPSSSCTAVASASRPDSTHMVEARQDVPKPVLTSMVPKSILAKPSSSP  
DPRYLSPPPSPNISTSESRSPEGDTTLFLSRLSTIWKGFINMQSVAKFVTKAYVSGCF  
DYLSEDLPTIHIIGGRIAPKTVDYVVGKLKSSVSKELCLIRFHPATEEEEVAYISLYSYF  
SSRGRFGVVANNRHRVKDLYLIPLSAQDPVPSKLLPFEGPGLESPPNIIILGLVICQKIK  
RPANSSELGDKMDEKTRTLQPEEADVPAYPKVATVPQSEKKPSKYPLCSADA AVSTTPPGS  
PPPPPLPEPPVLKVLSSLKPAAPSPATAATTAATAASTASSASKTASPLEHILQT  
LFGKKKSFDPASAREPPGSTAGLPQEPKTTAEDGVPAPLLDPIVQQFGQFSKDKALEEEE  
DDRPYDPEEYDPERAFDTQLVERGRRHEVERAPEAAAAEREVAYDPEDETILEEAKVT  
VDDLNRMCADVRRNSVERPAEPVAGAATPSLVEQQKMLEELNKQIEEQKRQLEEQEEAL  
RQRAAVGVSMHFVSVDALMSPPPKSSLPKAELFQQEQQSADKPASLPASQASNHRDP  
RQARRLATETGEGEPELSRLSARGAQGALPERDASRGGLVGQAPMPVPEEKEPASSPWA  
SGEKPPAGSEQDGWKAEPGEGTRPATVGDSSARPARRVLLPTPPCGALQPGFPLQHDGER  
DPFTCPGFASQDKALGSAQYEDPRNLHSAGRSSSPAGETEGDREPQARPGEGTAPLPPPG  
QKVGGSQPPFQGGREPGPHALGMSGLHGNFPGPRGPAPPFPEENIASNDGPRGPPPARF  
GAQKGPIPSLFSQGHPGPPYGDSRGSPSYLGGPRGVAPSQFEERKDPHGEKREFQDAPY  
NEVTGAPAQFEGTEQAPFLGSRGAPFQFGGQRRPLLSQLKGPRGGPPPSQFGGQRGPPP  
GHFVGPRGPHPSQFETARGPHPNQFEGPRGQAPNFMGPRGIQPPQFEDQRVHSPPRFTN  
QRAPAPLQFGGLRGSAPFSEKNEQTPSRFHFQGGAPQVMKPGPRLLELP SHPPQHRKDR  
WEEAGPPSALSSAPGQGEADGQWASADFRREGKGHEYRNQTFEGRQRERFDVGPKEKPL  
EEPDAQGRASEDRRRERERGRNWSRERDWRPREWDRHRDKDSSRDWRNRERSANRDRE  
READRGKEWDRSRERSNRERERDRRRDRDRSRERDRDKARDRERGRDRKDRSKSKES  
ARDPKPEASRASDAGTASQA

>sp|Q9UNQ2|DIM1\_HUMAN Probable dimethyladenosine transferase OS=Homo sapiens GN=DIM1  
PE=1 SV=1

MPKVKSGAIGRRRGRQEQRRELKSAGGLMFNTGIGQHILKNPLIINSIIDKAALRPTDVV  
LEVPGGTGNMTVKLLEKAKKVACELDPRLVAELHKRVQGTPVASKLQVLVGDVLKTDLP  
FFDTCVANLPYQISSPFVFKLLLRPFRCAILMFQREFALRLVAKPGDKLYCRLSINTQ  
LLARVDHLMKVGKNNFRPPPKVESSVRIEKNPPPPINFQEWGLVRITFVRKNKTLA  
AFKSSAVQQLLEKNYRIHCSVHNIIPEDFSIADKIQQILTSTGFSDKRARSMDIDDFIR  
LLHGFNAEGIHFS

>sp|Q14689|DIP2A\_HUMAN Disco-interacting protein 2 homolog A OS=Homo sapiens GN=DIP2A  
PE=1 SV=2

MADRGCPLEAAPLPAEVRESLAELELELSEGDITQKGYEKKRAKLLARYIPLIQGIDPSL  
QAENRIPGPSQTAAAPKQKSRPTASRDERFRSDVHTEAVQAALAKYKERKMPMPKRR

SVLVHSSVETYTPPDTSASEDEGLRRPGRLTSTPLQSHSSVEPWLD RVIQGSSTSSSA  
SSTSSHPGGRPTTAPSAAATPGAAATTALAGLEAHTHIDLHSAPPDVTTGLVEHSYFERP  
QVASVRSVPRGCSGSMLETADGVVNRSRVSSKIQQLLNTLKRPKRPPLKEFFVDDFEELL  
EVQQPDPNQKPEGSETSVLRGEPLTAGVPRPPSLLATLQRWGTTPKSPCLTALD TTGK  
AVYTLTYGKLWSRSLKLAYTLLNKLT SKNEPLLKPGDRVALVFPNSDPVMFMVAFYGCLL  
AELVPVP I EVPLTRKDAGSQQVGFLLGSCGVFLALTTDACQKGLPKAQTGEVA AFKGWPP  
LSWLVIDGKHLAKPPKDWHLAQTGTGTAYIEYKTSKEGSTVGTVSHASLLAQCRALT  
QACGYSEAETLTNVLDFKRDAGLWHGVLTSVMNRMHVSVPYALMKANPLSWIQKVC FYK  
ARAALVKSRDMHWSLLAQRGQRDVSLSRLMLIVADGANPWSISSCDAFLNVFQSRGLRP  
EVICPCASSPEALTVAIRRPDLGGPPPRKAVLSMNGLSYGVIRVDTEEKLSVLT VQDVG  
QVMPGANVCVVKLEGTPLYCKTDEVEGICVSSSATGTAYYGLLGITKNVFEAVPVT TGA  
PIFDRPFTRTGLLGFIGPDNLVFIGKLDGLMVTGVR RHADDVVATALAVEPMKFVYRG  
RIAVFSVTVLHDDRIVLVAEQRPDASEEDSFQWMSRVLQAIDS IHQGVYCLALVPANTL  
PKAPLGGIHISETKQRFLEGLHPCNVLMCPHTCVTNLPKPRKQKPEVG PASMIVGNLVA  
GKRIAQASGRELAHLEDSDQARKFLFLADVLQWRAHTTPDHPLFLLN A KGTVTSTATCV  
QLHKRAERVA AALMEKGRLSVGDHVALVYPPGVDLIAAFYGC LYCGCVPTVRPPHPQNL  
GTTLTPTVMIVEVSKSACVLTTQAVTRLLRSKEAAA AVDIRTWPTILDTDDIPKKIASV  
FRPPSPDVLAYLDFSVSTTGILAGVKMSHAATSALCRS IKLQCELYPSRQIAICLDPYCG  
LGFALWCLCSVYSGHQSVLVPPELESNVSLWLSAVSQYKARVTFCSYSVMEMCTKGLGA  
QTGVLRMKG VNLSCVRTCMVVAEERPRIALTQSFSKLFKDLGLPARAVSTTFGCRVNVAI  
CLQGTAGPDPTTVYVDMRALRHDRVRLVERGSPHSLPLMESGKILPGVKV IIAHTETKGP  
LGDSHLGEI WSSPHNATGYTYVYGEALHADHFSARLSFGDTQTIWARTGYLGFLRRTE  
LTDASGGRHDALYVVGSLDETLELRGMRYHPIDIETSVIRAHRSIAECAVFTWTNLLVVV  
VELDGLEQDALDLVALVTNVLEEHLVVG VVVIVDPGVIPINSRGEKQRMHLRDGFLAD  
QLDPIYVAYNM

>sp|O15075|DCLK1\_HUMAN Serine/threonine-protein kinase DCLK1 OS=Homo sapiens GN=DCLK1  
PE=1 SV=2

MSFGRDMELEHFDERDKAQRYSRGSRVNGLPSPTHSAHCSFYRTRTLQTL SSEKKAKKVR  
FYRNGDRYFKGIVYAI SPDRFRSFEALLADLRTLSDNVNLPQGVRTIYTIDGLKKISSL  
DQLVEGESYVCGSIEPFKKLEYTKNVNPNWSVNVTTSASRAVSSLATAK GSPSEVRENK  
DFIRPKLVTIIRSGVKPRKAVRILLNKTAHSFEQVLT DITDAIKLDSGVVKRLYTLDGK  
QVMCLQDFFGDDDI F IACGPEKFRYQDDFLDESECRVVKSTS YTKIASSSRRSTTKSPG  
PSRRSKSPASTSSVNGTPGSQLSTPRSGKSPSPSPTSPGSLRKQRSSQH GGSSTSLASTK  
VCSSMDENDGPGEVSEEGFI PATITERYKVGRTIGDGNFAVVKECVERSTAREYALKI  
IKKSKCRGKEHMIQNEVSILRRVKHPNIVLLIEEMDVPT ELYLVMELVKGGDLFDAITST  
NKYTERDASGMLYNLASAIKYLHSLNIVHRDIKPENLLVYEHQDGSKSLKLGDFGLATIV  
DGPLYTVCGTPTYVAPEIIAETGYGLKVDIWAAGVITYILLCGFP PFRGSGDDQEVLF DQ  
ILMGQVDFSPYWDNVSDSAKELITMMLLV D V DQRFSAVQVLEHPWVND DGLPENEHQLS  
VAGIKKHFNTPGKPNSTAAGSVIATTALDKERQVFRRRRNQDVRSRYKAQPAPPELNS  
ESEDYSPSSSETVRSPNSPF

>sp|Q9H773|DCTP1\_HUMAN dCTP pyrophosphatase 1 OS=Homo sapiens GN=DCTPP1 PE=1 SV=1

MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLAL  
VGEVGELAE LFQWKT DGEPPGQGWSPRERAALQEELSDVLIY LVALAARCRVDLPLAVLS  
KMDINRRRYPAHLARSSSRKYTELP HGAISEDQAVGPADIPCDSTGQTST

>sp|Q16832|DDR2\_HUMAN Discoidin domain-containing receptor 2 OS=Homo sapiens GN=DDR2 PE=1 SV=2

MILIPRMLLVFLLLPILSSAKAQVNPAICRYPLGMSGGQIPDEDITASSQWSESTAAKY  
GRLDSEEGDGAWCPEIPVEPDDLKEFLQIDLHLHFITLVGTQGRHAGGHGIEFAPMYKI  
NYSRDGTRWISWRNRHGKQVLDGNSNPYDIFLKDLEPPIVARFVRFIPVTDHSMNVCMRV  
ELYGCVWLDGLVSYNAPAGQQFVLPGGSI IYLND SVYDGAVGYSMTEGLGQLTDGVSGLD  
DFTQTHEYHVWPGYDYVGWRNESATNGYIEIMFEFDRIRNFTTMKVHCNNMFAKGVKIFK  
EVQCYFRSEASEWEPNAISFPLVLDDVNPSARFVTVPLHHRMASAIKCQYHFADTWMMFS  
EITFQSDAAMYNSEALPTSPMAPTTYDPMLKVDDSNTRILIGCLVAIIFILLAIIVIIIL  
WRQFWQKMLEKASRRMLDDEMTVSLSLPSDSSMFNNRSSSPSEQGSNSTYDRIFPLRPD  
YQEPSRLIRKLPEFAPGEEESGCSGVVKPVQPSGPEGVPHYAEADIVNLQGVGTGGNTYSV  
PAVTMDLLSGKDVAVEEFPRKLLTFKEKLGEQGFGEVHLCEVEGMEKFKDKDFALDVSAN  
QPVLVAVKMLRADANKNARNDFLKEIKIMSRLKDPNI IHL LAVCITDDPLCMITEYMENG  
DLNQFLSRHEPPNSSSSDVRTVSYTNLKFMTAQIASGMKYLSSLNFVHRDLATRNCVLVGK  
NYTIKIADFGMSRNLYSGDYIRIQGRAVLP IRWMSWESILLGKFTTASDVWAFGVTWET  
FTFCQEQPYSQLSDEQVIENTGEFFRDQGRQTYLPQPAICPDSVYKMLMLSCWRRDTKNRP  
SFQEIHL LLL LQQGDE

>sp|Q92499|DDX1\_HUMAN ATP-dependent RNA helicase DDX1 OS=Homo sapiens GN=DDX1 PE=1 SV=2

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IQIVYETLKDQEGKKGKTTIKTGASVLNKWQMPYDRGSFAIGSDGLCCQSREVKWEH  
GCRATKGLMKGHYYEVSCHDQGLCRVGWSTMQASLDLGTDKFGFGGGTGKSHNKQFD  
NYGEEFTMHDTIGCYLDIDKGHVKFSKNGKDLGLAFEIPPHMKNQALFPACVLKNAELKF  
NFGEEEFKFPKDGVALSKAPDGYIVKSQHSGNAQVTQTFLPNAPKALIVEPSRELAE  
QTLNNIKQFKKYIDNPKLRELLIIGGVAARDQLSVLENGVDIVVGTPGRLLDLVSTGKLN  
LSQVRFLVLDEADGLLSQGYSDFINRMHNQIPQVTS DGKRLQVIVCSATLHSFVKKLSE  
KIMHFPTWVDLKGEDSVPD TVHHVVVPVNPKTDRLWERLGKSHIRTD DVHAKDNTRPGAN  
SPEMWSEAIKILKGEYAVRAIKEHKMDQAI IFCRTKIDCDNLEQYFIQGGGPDKKGHQF  
SCVCLHGRDKPHERKQNLERFKKGDVRF LIC TDVAARGIDIHGVYVINVTLPDEKQNYV  
HRIGRVGRAERMGLAISLVATEKEKVWYHVCSSRGKGCYNTRLKEDGGCTI WYNEMQLLS  
EIEEHLNCTISQVEPDIKVPVDEFD GKVTYGGKRAAGGSYKGHVDILAPT VQELAALEK  
EAQTSFLHLGYLPNQLFRTF

>sp|Q9UHL0|DDX25\_HUMAN ATP-dependent RNA helicase DDX25 OS=Homo sapiens GN=DDX25 PE=1 SV=2

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SKIQEMALPMMLAHPPQNLIAQSQSGTGKTA AFVLAMLSRVNALELFPQCLCLAPTYELA  
LQTGRVVEQMGKFCVDVQVMAIRGNRIPRGTDITKQIIIGTPGTVLDWCFKLKLDLTK  
IRV FVLDEADVMIDTQGFSDSIRIQRALPSECQMLLFSATFEDSVWHFAERIIPDPNVI  
KL RKEELTLNNIRQYVVLCEHRKDKYQALCNIYGSITIGQAIIFCQTRRNAKWLTVEMIQ  
DGHQVSLLSGELTVEQRASIIQRFRDGKEKVLITTNVCARGIDVKQVTIVVNFDLPVKQG  
EEP DYETYLHRIGRTGRFGKKGLAFNMIEVDELPSLMKIQDHFNSSIKQLNAEDMDEIEK  
IDY

>sp|Q96GQ7|DDX27\_HUMAN Probable ATP-dependent RNA helicase DDX27 OS=Homo sapiens GN=DDX27 PE=1 SV=2

MVLAQRRRGGCEKL RAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPEPESDSGDEE  
EEGP IVLGRRQKALGKNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEK  
IEKVRKKRKTEDKEAKSGKLEKEKEAKEGSEPKEQEDLQENDEEGSEDEASETDYSSADE  
NILTKADTLKVKDRKKKKKGQEAGGFEDASQYDENLSFQDMNLSRPLLKAITAMGFKQ  
PTPIQKACIPVGLLGKDICACAATGTGKTAAFALPVLERLIYKPRQAPVTRVLVLP TRE  
LGIQVHSVTRQLAQFCNITTCLAVGGLDVKSQEAAALRAAPDIL IATPGRLIDHLHNCPSF  
HLSSIEVLILDEADRMLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNP  
VRIFVNSNTDVAPFLRQEFIRIRPNREGDREAI VAALLTRTFTDHVMLFTQTKKQAHRMH  
ILLGLMGLQVGELHGNSLTQRLEALRRFKDEQIDILVATDVAARGLDIEGVKTVINFTM  
PNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR  
DKIEKMEKD VYAVLQLEAEKEMQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKEERK  
KEKIAKALQEFDLALRGKKRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNR  
AKRARAMPEEEPV RGPAAKKQKQKKS VFDEELTNTSKKALKQYRAGPSFEERKQLGLPHQ  
RRGGNFKSKSRYKRRK

>sp|000571|DDX3X\_HUMAN ATP-dependent RNA helicase DDX3X OS=Homo sapiens GN=DDX3X PE=1 SV=3

MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASKGRYIPPHLRNREATKGFYDKDSSGW  
SSSKDKDAYSSFGSRSDSRGKSSFFSDRGSGSRGRFDDRGRSDYDGI GSRGDRSGFGKFE  
RGGNSRWCDKSEDDWSKPLPPSERLEQELFSGGNTGINFEKYDDIPVEATGNNCPPIE  
SFSDVEMGEIIMGNIELTRYTRPTPVQKHAIP IIEKRDLMACAQTGSGKTA AFLLPILS  
QIYSDGPGEALRAMKENG RYGRRKQYPISLVLA PTRELAVQIYEEARKFSYRSRVRPCVV  
YGGADIGQQIRD LERGCHLLVATPGRLVDMMERGKIGLDFCKYLVLEADRMLDMGFEPQ  
IRRIVEQDTMP PKGVRHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVGSTSENITQKV  
WVEESDKRSFLDLLNATGKDSLTLVFVETKKGADSLDFLYHEGYACTSIHGDRSQDR  
EEALHQFRSGKSPILVATAVAARGLDISNVKHVINFDLPSDIEEYVHRIGRTGRVGNLGL  
ATSFNERNINITKDLLDLVEAKQEVPSWLENMAYEHYKGS SRGRSKSSRFSGGFGAR  
DYRQSSGASSSSFS SSRASSSRSGGGHGGSSRGFGGGYGGFYNSDGYGGNYNSQGV DWW  
GN

>sp|Q9P2X7|DEC1\_HUMAN Deleted in esophageal cancer 1 OS=Homo sapiens GN=DEC1 PE=2 SV=1  
MTMNVLEAGKWSIVPAPGEGLLAVLHMMVFTDALHRERSVKWQAGVCYNGGKDFAVSLA  
RPKAAEGTIAD

>sp|Q8WXF8|DEDD2\_HUMAN DNA-binding death effector domain-containing protein 2 OS=Homo sapiens GN=DEDD2 PE=1 SV=1

MALSGSTPAPCWEDECLDYYGMLSLHRMFEVVGQLTECELELLAFLLD EAPGAAGGLA  
RARSGLELLLELERRGQCDESNLRLLGQLLRVLARHDLLPHLARKRRRPVSPERYSYGTS  
SSSKRTEGSCRRRRQSSSSANSQQGWETGSPPTKRQRRSRGRPSGGARRRRRGAPAAPQ  
QQSEPARPSSEGKVTCDIRLRVRAEYCEHGALEQGVASRRPQALARQLDVFGQATAVLR  
SRDLGSVVC DIKFSELSYLD AFWGDYLSGALLQALRGVFLTEALREAVGREAVRLLVSVD  
EADYEAGRRRLLLMEEEGGRRPTEAS

>sp|P12838|DEF4\_HUMAN Neutrophil defensin 4 OS=Homo sapiens GN=DEFA4 PE=1 SV=2  
MRIIALLAAILLVALQVRAGPLQARGDEAPGQEQRGPEDQDISISFAWDKSSALQVSGST  
RGMVCSCRLVFCRRTEL RVGNCLIGGVSTFYCCTRVD

>sp|Q01524|DEF6\_HUMAN Defensin-6 OS=Homo sapiens GN=DEFA6 PE=1 SV=1  
MRTL TILTAVLLVALQAKAEPLQAEDDPLQAKAYEADAQEQRGANDQDFAVSFAEDASSS



LRLAGSTRAFTCHCRRSCYSTEYSYGTCTVMGINHRFCCL

>sp|P60022|DEFB1\_HUMAN Beta-defensin 1 OS=Homo sapiens GN=DEFB1 PE=1 SV=1  
MRTSYLLLFTLCLLLSEMASGGNFLTGLGHRSDHYNCVSSGGQCLYSACPIFTKIQTCTY  
RGKAKCCK

>sp|O94850|DEND\_HUMAN Dendrin OS=Homo sapiens GN=DDN PE=1 SV=3  
MLDGPLFSEGPDSPRELQDEESGSCLWVQKSKLLVIEVKTISCHYSRRAPSRQPMDFQAS  
HWARGFQNRTCGPRPGSPQPPRRPWASRVLQEATNWRAGPLAEVRAREQEKRKAASQER  
EAKETERKRRKAGGARRSPGPRPEPRNAPRVAQLAGLPAPLRPERLAPVGRAPRPSAQ  
PQSDPGSAWAGPWGGRPGPPSYEAHLLRGSAGTAPRRRWDRPPPYVAPPSYEGPHRTL  
GTKRGPGNSQVPTSSAPAATPARTDGGRTKKRLDPRIYRDVLGAWGLRQGQGLLGGSPGC  
GAARARPEPGKGVVEKSLGLAAADLNSGSDSHPQAKATGSAGTEIAPAGSATAAPCAPHP  
APRSRHHLKGSREGKEGEQIWFPKCWIPSPKKQPPRHSQTLPRPWAPGGTGWRESLGLGE  
GAGPETLEGWKATRRRAHTLPRSSQGLSRGEGVFVIDATCVVIRSQYVPTPRTQQVQLLPS  
GVTRVVGSDSPSQSKPGKEEGEGATVFPSPCQKRLSSSRLHQPGGGRGGEAEGRPDST  
LEERTFRILGLPAPEVNLRDAPTQPGSPEHQALGPAASGAQGRAEGSEVAVVQRRAGRGW  
ARTPGPYAGALREAVSRIRRHAPDSDTDEAEELSVHSGSSDGSDEAPGASWRNERTLP  
EVGNSSPEEDGKTAELSDSVGEILDVISQTEEVLFGVRDIRGTQQGNRKRQ

>sp|Q96Q80|DERL3\_HUMAN Derlin-3 OS=Homo sapiens GN=DERL3 PE=1 SV=2  
MAWQGLAAEFLQVPAVTRAYTAACVLTTAAVQLELLSPFQLYFNPHLVFRKFQVWRLVTN  
FLFFGPLGFSFFFNMLFVFRYCRMLEEGSFRGRTADVFVFMFLFGGVLMTLLGGLSLFFL  
GQALMAMLVYVWSRRSPRVNFFGLLTFQAPFLPWALMGFSLLLGNSILVDLLGIAVGH  
IYYFLEDVFPNQPGKRLQLTPGFLKLLDAPAEDPNYLPLPEEQPGPHLPPPQQ

>sp|Q6ICB0|DESI1\_HUMAN Desumoylating isopeptidase 1 OS=Homo sapiens GN=DESI1 PE=1 SV=1  
MEPPNLYPVKLYVYDLKGLARRLSPIMLGKQLEGIWHTSIVVHKDEFFFGSGGISSCPP  
GGTLLGPPDSVVDVGSTEVTEEIFLEYLSSLGESLFRGEAYNLFEHNCNTFSNEVAQFLT  
GRKIPSYITDLPSEVLSTPFGQALRPLDLSIQIQPPGGSSVGRPNGQS

>sp|P23743|DGKA\_HUMAN Diacylglycerol kinase alpha OS=Homo sapiens GN=DGKA PE=1 SV=3  
MAKERGLISPSDFALQKYMEYSTKKVSDVLKLFEDGEMAKYVQGDIAIGYEGFQQFLKIY  
LEVDNVPRHLSLALFQSFETGHCLNETNVTKDVVCLNDVSCYFSLLEGGRPEDKLEFTFK  
LYDTRNGILDSSEVDKIIILQMMRVAEYLDWDVSELRPILQEMMKEIDYDGSQSVSQAEW  
VRAGATTVPPLLVLGLLEMTLKDDGQHMWRPKRFRPVYCNLCESIGLGKQGLSCNLCKY  
TVHDQCAMKALPCEVSTYAKSRKDIGVQSHVWVRGGCESGRCDRCQKKIRIYHSLTGLHC  
VWCHLEIHDDCLQAVGHECDCGLLRDHILPPSSIYPSVLASGPDRKNSKTSQKTMDLNL  
STSEALRIDPVPNTHPLLVFVNPKSGGKQGRVLWKFQYILNPRQVFNLLKDGPEIGLRL  
FKDVPDSRILVCGGDGTVGWILETIDKANLPVLPVAVLPLGTGNDLARCLRWGGGYEGQ  
NLAKILKDLEMSKVVMHMRWSVEVIPQQTEEKSDPVPFQIINNYFSIGVDASIAHRFHIM  
REKYPEKFNSRMKNLWYFEFATSESIFFSTCKKLEESLVEICGKPLDLSNLSLEGIAVL  
NIPSMHGGSNLWGDTRRPHGDIYGINQALGATAKVITDPDILKTCVPLSDKRLEVVGLE  
GAITEMGQIYTKLNAGRRLAKCSEITFHTTKTLPMQIDGEPWMQTPCTIKITHKNQMPML  
MGPPPRSTNFFGFLS

>sp|O60479|DLX3\_HUMAN Homeobox protein DLX-3 OS=Homo sapiens GN=DLX3 PE=1 SV=1  
MSGSFDRKLSSILTDISSLSCHAGSKDSPTLPSSVTDLGYYSAPQHDIYSGQPYGQTV  
NPYTYHHQFNLNGLAGTGAYSPKSEYTYGASYRQYGAYREQPLPAQDPVSVKEPEAEVR  
MVNGKPKKVRKPRTIYSSYQLAALQRRFQKAQYLALPERAELAAQLGLTQTQVKIWFQNR

RSKFKKLYKNGEVPLEHSPNNSDSMACNSPPSPALWDTSSHSTPAPARSQLPPPLPYAS  
PSYLDPTNSWYHAQNLSGPHLQQQPPQATLHHASGPPPNPGAVY

>sp|P56178|DLX5\_HUMAN Homeobox protein DLX-5 OS=Homo sapiens GN=DLX5 PE=1 SV=2

MTGVFDRRVPSIRSGDFQAPFQTSAAHHPSQESPTLPESSATDSDYYSPTGGAPHGYCS  
PTSASYGKALNPYQYQYHGVNGSAGSYPAKAYADYSYASSYHQYGGAYNRVPSATNQPEK  
EVTEPEVRMVNGKPKKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQ  
VKIWFQNKRSKIKKIMKNGEMPPEHSPSSSDPMACNSPQSPAVWEPQGSSRSLSHHPHAH  
PPTSNQSPASSYLENSASWYTSAAASSINSHLPPPGSLQHPLALASGTLV

>sp|P28068|DMB\_HUMAN HLA class II histocompatibility antigen, DM beta chain OS=Homo sapiens GN=HLA-DMB PE=1 SV=1

MITFLPLLLGLSLGCTGAGGFVAHVESTCLLDDAGTPKDFTYCISFNKDLLTCWDPEENK  
MAPCEFGVLNSLANVLSQHNLNQKDTLMQRLRNLQNCATHQPFWGSLTNRTRPPSVQVA  
KTTPFNTREPVMLACYVWGFYPAEVTITWRKNGKLVMPHSSAHKTAQPNGDWTYQTLSHL  
ALTPSYGDTYTCVVEHIGAPEPILRDWTPGLSPMQTLKVSVAVTGLGLIIFSLGVISW  
RRAGHSSYTPLPGSNYSEGWHIS

>sp|Q6ZS02|DMP46\_HUMAN Putative GED domain-containing protein DNM1P46 OS=Homo sapiens GN=DNM1P46 PE=5 SV=1

MLQLAGVSNSTCGGVRNVSVETRNVPKQGKDSKAEENGSHSFMHSMDPQLERQMETTQNL  
VDSYMAIVNKTVDLVMVGAKPKTTHIMIIYNVHAPPHGDQGVHLLGAAVQPALAWEREDT  
HGGVGRVGTAAARRDAASQSCCPTCTRLGTRRHWSRQSRHSGATRLAWEEIDTPGGVGR  
AGTAARRDSRGNEKTLLEESAEQADQGVHLLGAAVQPALA

>sp|Q09013|DMPK\_HUMAN Myotonin-protein kinase OS=Homo sapiens GN=DMPK PE=1 SV=3

MSAEVRLRRLQQLVLDPGFLGLEPLDLLLVGHQELGASELAQDKYVADFLQWAEPIVVR  
LKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWMLKRGEVSCFREER  
DVLVNGDRRWITQLHFAFQDENLYLVMEYYVGGDLLTLLSKFGERIPAEMARFYLAETV  
MAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLADGTVRSLVAVGTPDYLSL  
EILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYADSTAETYGKIVHYKEHLSLP  
LVDEGVPEEARDFIQRLCPPETRLGRGGAGDFRTHPFFFGLDWDGLRDSVPPFTPDPFEG  
ATDTCNFDLVEDGLTAMVSGGETLSDIREGAPLGVHLPFVGYSSCMALRDSEVPGTP  
MELEAEQLLEPHVQAPSLEPSVSPQDETAEVAVPAAPAAEAEAEVTLRELQEALEEEVL  
TRQSLSREMEAIRTDNQNFASQLREAEARNRDLEAHVRQLQERMELLQAEGATAVTGVPS  
PRATDPPSHLDGPPAVAVGQCPLVGPMPHRRHLLLPARVPRPGLSEALSLLLFAVLSR  
AAALGCIGLVAHAGQLTAVWRRPGAARAP

>sp|P27707|DCK\_HUMAN Deoxycytidine kinase OS=Homo sapiens GN=DCK PE=1 SV=1

MATPPKRSCPSFSASSEGTRIKISIEGNIAAGKSTFVNILKQLCEDWEVVPEPVARWCN  
VQSTQDEFEELTMSQKNGGNVLQMMYEKPERWSFTFQTYACLSRIRAQLASLNGKLKDAE  
KPVLFERSVYSYDRYIFASNLYESECMNETEWTIYQDWHDMNMQFGQSELDGIIYLQA  
TPETCLHRIYLRGRNEEQGIPLEYLEKLHYKHESWLLHRTLKTNFDYLQEVPILTLDVNE  
DFKDKYESLVEKVKEFLSTL

>sp|Q9NPI6|DCP1A\_HUMAN mRNA-decapping enzyme 1A OS=Homo sapiens GN=DCP1A PE=1 SV=2

MEALSRAQGEMSLAALKQHDPYITSIADLTGQVALYTFCKANQWEKTDIEGTLFVYRRS  
ASPYHGFTIVNRLNMHNLVEPVNKDLEFQLHEPFLLYRNASLSIYSIWFYDKNDCHRIAK  
LMADVVEETRRSQQAARDKQSPSQANGCSDHRPIDILEMLSRKDEYERNQMGSNISS  
PGLQPSTQLSNLGSTETLEEMPSGSQDKSAPSGHKHLTVEELFGTSLPKEQPAVVGDLSE

EMERLPGDASQKEPNSFLPFPFEQLGGAPQSETLGVPSAAHHSVQPEITTPVLITPASIT  
QSNEKHAPTYTIPLSPVLSPTLP AEAPTAQVPPSLPRNSTMMQAVKTTPRQRSPLLNQPV  
PELSHASLIANQSPFRAPLNVNTNAGTSLPSVDLLQKLRLTPQHDQIQTPQLGKGAMVAS  
FSPAAGQLATPESFIEPPSKTAAARVAASASLSNMVLAPLQSMQQNQDPEVQVQPKVLSS  
AIQVAGAPLVTATTTAVSSVLLAPSVFQQTVTRSSDLERKASSPSPLTIGTPESQRKPSI  
ILSKSQLQDTLIHLIKNDSSFLSTLHEVYLQVLTKNKDNHNL

>sp|075935|DCTN3\_HUMAN Dynactin subunit 3 OS=Homo sapiens GN=DCTN3 PE=1 SV=1  
MAGLTDLQRLQARVEELERWVYGGGARGSRKVADGLVKVQVALGNISSKRERVKILYKK  
IEDLIKYLDPEYIDRIAIPDASKLQFILAEQFILSQVALLEQVNALVPMLDSAHIKAVP  
EHAARLQRLAQIHIQQQDQCEITEESKALLEEYNKTTMLLSKQFVQWDELLCQLEAATQ  
VKPAEE

>sp|Q9BTE1|DCTN5\_HUMAN Dynactin subunit 5 OS=Homo sapiens GN=DCTN5 PE=1 SV=1  
MELGELLYNKSEYIETASGNKVSRSQSVLCGSQNIVLNGKTIVMNCIIRGDLANVRVGRH  
CVVKSRSVIRPPFFKFSKGVAFPLHIGDHVFIEEDCVNAAQIGSYVHVGNKNCVIGRRC  
VLKDCCKILDNTVLPPEFTVVPFTVFSGCPGLFSGELPECTQELMIDVTKSYQKFLPLT  
QV

>sp|043602|DCX\_HUMAN Neuronal migration protein doublecortin OS=Homo sapiens GN=DCX PE=1  
SV=4

MELDFGHFDERDKTSRNMGRSMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKVRFYRN  
GDRYFKGIVYAVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYTIDGSRKIGSMDELE  
EGESYVCSNDFFKVEYTKNVNPNWSVNVKTSANMKAPQSLASSNSAQARENKDFVRPK  
LVTIIRSGVKPRKAVRVLLNKKTAHSFEQVLT DITEAIKLETGVVKKLYTLDGKQVTC LH  
DFFGDDDFVIACGPEKFRYAQDDFSLDENECRVMKGNPSATAGPKASPTPQKTSKSPGP  
MRRSKSPADSGNDQDANGTSSSQLSTPKSKQSPISTPTSPGSLRKHKDLYLPLSLDDSDS  
LGDSM

>sp|Q9BW61|DDA1\_HUMAN DET1- and DDB1-associated protein 1 OS=Homo sapiens GN=DDA1 PE=1  
SV=1

MADFLKGLPVYNKSNFSRFHADSVCASNRPSVYLP TREYPSEQIIVTEKTNILLRYLH  
QQWDKKNAAKKRDQEQVELEGESSAPPRKVARTDSPDMHEDT

>sp|095865|DDAH2\_HUMAN N(G),N(G)-dimethylarginine dimethylaminohydrolase 2 OS=Homo  
sapiens GN=DDAH2 PE=1 SV=1

MGTPGEGLGRCSHALIRGPESLASGEGAGLPALDLAKAQREHGVLGKLRQLRGLQL  
LELPPEESLPLGPLLGD TAVIQGD TALITRPWSPARRPEVDGVRKALQDLGLRIVEIGDE  
NATLDGTDVLTGREFVGLSKWTNHRGAEIVADTFRDFAVSTVPVSGPSHLRGLCGMGG  
PRTVVAGSSDAAQKAVRAMAVLTDHPYASLTLPDDAADCLFLRPGLPGVPPFLLHRGGG  
DLPNSQEALQKLSDVTLVPVSCSELEKAGAGLSSLCLVLSTRPHS

>sp|Q16531|DDB1\_HUMAN DNA damage-binding protein 1 OS=Homo sapiens GN=DDB1 PE=1 SV=1

MSYNYVVTAAKPTAVNGCVTGHTSAEDLNLLIAKNTRLEIYVVTAEGLRPVKEVGMYGK  
IAVMELFRPKGESKDLLFIL TAKYNACILEYKQSGESIDIITRAHGNVQDRIGRPSETGI  
IGIIDPECRMIGRLRYDGLFKVIPLDRDNKELKAFNIRLEELHVIDVKFLYGCQAPTICF  
VYQDPQGRHVKTYEVS LREKEFNKGPWKQENVEAEASMVIAVPEPFGGAIIGQESITYH  
NGDKYLAIAPIIKQSTIVCHNRVDPNGSRYL LGDMEGRLFMLLLEKEEQMDGTVTLKDL  
RVELLGETSIAECLTYLDNGVVFVGSRLGDSQLVKLNVD SNEQGSYVAMETFTNLGP IV  
DMCVVDLERQGGQLVTCSGAFKEGSLRIIRNGIGIHEHASIDLPGIKGLWPLRSDPNRE

TDDTLVLSFVGQTRVLMNGEEVEETELMGFVDDQQTFFCGNVAHQQLIQITSASVRLVS  
QEPKALVSEWKEPQAKNISVASCNSSQVVAVGRALYYLQIHPQELRQISHTEMEHEVAC  
LDITPLGDSNGLSPLCAIGLWTDISARILKLPSFELLHKEMLGGEIIPRSILMTTFESSH  
YLLCALGDGALFYFGLNIETGLLSDRKKVTLGTQPTVLRTRFSLSTTNVFACSDRPTVIY  
SSNHKLVSNNLKEVNYMCPLNSDGYPDSLALANNSTLTIGTIDEIQKLHIRTVPYES  
PRKICYQEVSCFGVLSSRIEVQDTSGGTTALRPSASTQALSSSVSSSKLFSSSTAPHET  
SFGEEVEVHNLLIIDQHTFEVLHAHQFLQNEYALSLVSCKLKDPNTYFIVGTAMVYPEE  
AEPKQGRIVVVFQYSDGKLQTVAEKEVKGAVYSMVFEFNGKLLASINSTVRLYEWTTEKELR  
TECNHYNINIMALYLKTKGDFILVGDLMRSVLLLAYKPMEGNFEEIARDFNPWNMSAVEIL  
DDDNFLGAENAFNLFVCQKDSAATTDEERQHLQEVGLFHLGEFVNVFCHGSLVMQNLGET  
STPTQGSVLFGTVNGMIGLVTLSSESWYNLLDMQNRLNKVIKSVGKIEHSFWRSFHTER  
KTEPATGFIDGLIESFLDISRPKMQEVVANLQYDDGSGMKREATADDLIKVVEELTRIH

>sp|Q9NX09|DDIT4\_HUMAN DNA damage-inducible transcript 4 protein OS=Homo sapiens GN=DDIT4  
PE=1 SV=1

MPSLWDRFSSSSSTSSSPSSLRPTPTPDRPPRSAWGSATREEGFDRSTSLESSDCESLDSS  
NSGFGPEEDTAYLDGVSLPDFELSDPEDEHLCANLMQLLQESLAQARLGSRRPARLLMP  
SQLVSQVGKELLRLAYSEPCGLRGALLDVCVEQGKSCHSVGQLALDPSLVPTFQLTLVLR  
LDSRLWPKIQGLFSSANSFPLPGFSQSLTLSTGFRVIKKKLYSSEQLLIEEC

>sp|Q92841|DDX17\_HUMAN Probable ATP-dependent RNA helicase DDX17 OS=Homo sapiens GN=DDX17  
PE=1 SV=2

MPTGFVAPILCVLLPSPTREAAATVASATGDSASERESAAPAAAPTAEAPPPSVVTRPEPQ  
ALPSPAIRAPLPDLYPFGTMRGGGFGDRDRDRGGFGARGGGGLPPKKFGNPGERLRKK  
KWDLSELPKFEKNFYVEHPEVARLTPYEVDLRRKKEITVRGGDVC PKPVFAFHANFPQ  
YVMDVLMQHFTEPTPIQCQGFPLALSGRDMVGIAQTGSGKTLAYLLPAIVHINHQPYLE  
RGDGPICLVLAPTRELAQQVQQVADYDGKCSRLKSTCIYGGAPKGPQIRDLERGVEICIA  
TPGRLIDFLESGKTNLRRC TYLVLEADRM LDMGFEPQIRKIVDQIRPDRQTL MWSATWP  
KEVRQLAEDFLRDYTQINVGNLELSANHNILQIVDVCMESEKDHKLIQLMEEIMAEKENK  
TIIIFVETKRRCDL TRRMRRDGPAMCIHGDKSQPERDWLNEFRSGKAPILIATDVASR  
GLDVEDVKFVINYDYPNSSEYVHRIGRTARSTNKGTAYTFFTPGNLKQARELIKVLEEA  
NQAINPKLMQLVDHRGGGGGGGSR YRTTSSANNPNLMYQDECRRRLRGVKDGGRRDSA  
SYRDRSETDRAGYANGSGYGSPNSAFGAQAGQYTYGQGTYGAAAYGTSSYTAQEYAGTY  
GASSTTSTGRSSQSSSQQFSGIGRSGQQPPLMSQQFAQPPGATNMIGYMGQTAYQYPPP  
PPPPPPSRK

>sp|Q86XP3|DDX42\_HUMAN ATP-dependent RNA helicase DDX42 OS=Homo sapiens GN=DDX42 PE=1  
SV=1

MNWNKGGPGTKRGFGFGGFAISAGKKEPKLPQQSHSAFGATSSSSGFGKSAPPQLPSFY  
KIGSKRANFDEENAYFEDEEEDSSNVDPYIPAENSPTRQQFHSPVDSDDDDPLEAFM  
AEVEDQAARDMKRLEEKDKERKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEEEN  
LEYDSGNPIAPTKKIIDPLPIDHSEIDYPPFEKNFYNEHEEITNLTPQQ LIDLRHKLN  
LRVSGAAPPRPGSSFAHFGFDEQLMHQIRKSEYTQPTPIQCQGV PVALSGRDMIGIAKTG  
SGKTAAFIWMLIHIMDQKELEPGDGPIAVIVCPTRELCQQIHAECKRFGKAYNLRVAV  
YGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFEYQ  
VRSIASHVRPDRQTL LFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHS  
GPSKWNWLTRRLVEFTSSGSVLLFVTKKANAEELANNLKQEGHNLGLLHGDMQSERNKV

ISDFKKKDIPVLVATDVAARGLDIPSIKTVINYDVARDIDTHTHRIGRTGRAGEKGVAYT  
LLTPKDSNFAGDLVRNLEGANQHVSKELDLAMQNAWFRKSRFKGGKGGKLNIGGGGLGY  
RERPGLSNMDRGNMNSNYEAYKPSTGAMGDRLTAMKAAFQSQYKSHFVAASLSNQK  
AGSSAAGASGWSAGSLNSVPTNSAQQGHNSPDSPVTSAAKGIPGFGNTGNISGAPVTYP  
SAGAQGVNNTASGNSREGTGGSNKGRERYTENRGSSRHSGETGNRHSDSPRHGDGGRH  
GDGYRHPRESSRHTDGRHGENRHGGSAGRHHGENRGANDGRNGESRKEAFNRESKMEPKM  
EPKVDSSKMDKVDSDTKTADGFAVPEPPKRKKSRRWS

>sp|Q9H0S4|DDX47\_HUMAN Probable ATP-dependent RNA helicase DDX47 OS=Homo sapiens GN=DDX47  
PE=1 SV=1

MAAPEEHDSPTASQPIVEEEETKTFKDLGVTDLCEACDQLGWTKPTKIQIEAIPALQ  
GRDII GLAETGSGKTGAFALPILNALLETPQRLFALVLTPTRELAFAQISEQFEALGSSIG  
VQSAVIVGGIDSMSQSLALAKKPHII IATPGRLIDHLENTKGFNLRALKYLMDEADRIL  
NMDFETEVDKILKVIPRDRKTFLSATMTKKVQKLQRAALKNPVKCAVSSKYQTVEKLQQ  
YYIFIPSKFKDTLYVILNELAGNSFMIFCSTCNTQRTALLRLNLGFTAIPLHGQMSQS  
KRLGSLNKFKAKARSILLATDVASRGLDIPHVDVVVNFIDIPTHSKDYIHRVGRTARAGRS  
GKAITFVTQYDVELFQRIEHLIGKKLPGFPTQDDEVMMMLTERVAEAQRFARMELREHGEK  
KKRSREDAGDNDDEGAIGVRNKVAGGKMKKRKGR

>sp|Q86TM3|DDX53\_HUMAN Probable ATP-dependent RNA helicase DDX53 OS=Homo sapiens GN=DDX53  
PE=1 SV=3

MSHWAPEWKRAEANPRDLGASWDVRGSRGSGWSPFGHQGPRAAGSREPPLCFKIKNNMV  
GVVIGYSGSKIKDLQHSNTKIQIINGESEAKVRIFGNREMKAKAKAAIETLIRKQESYN  
SESSVDNAASQTPIGRNLGRNDIVGEAEPLSNWDRIRAAVVECEKRWADLPPVKKNFYI  
ESKATSCMSEMQVINWRKENFNITCDDLKSGEKRLIPKPTCRFKDAFQQYPDLLKSIIRV  
GIVKPTPIQSQAWPILQGIDLIVVAQTGTGKTL SylMPGFihLDSQPISREQRNGPGML  
VLTPTRELALHVEAECSKYSYGLKSICIYGGNRNRNGQIEDISKGVDI IATPGRLNDLQ  
MNSVNLRSITYLVIDEADKMLMEFEPQIRKILLDVRPDRQTVMTSATWPDTVRQLALS  
YLDPMIVVYVGNLNLVAVNTVKQNIIVTTEKEKRALTQEFVENMSPNDKVIMFVSQKHIA  
DDLSSDFNIQGISAESLHGNSQSDQERAVEDFKSGNIKILITTDIVSRGLDLNDVTHVY  
NYDFPRNIDVYVHRVGYIGRTGKTGTSVTLITQRDSKMAGELIKILDRANQSVPEDLVVM  
AEQYKLNQQKRHRETRSRKPGQRRKEFYFLS

>sp|P17844|DDX5\_HUMAN Probable ATP-dependent RNA helicase DDX5 OS=Homo sapiens GN=DDX5  
PE=1 SV=1

MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGEKLVKKKWNDELPKFEKNFYQ  
EHPDLARRTAQEVETYYRSKEITVRGHNCPPVLFYEAANFPANVMDVIARQNFTEPTAI  
QAQGWPVALSGLDMVGVAQTGSGKTL SylLPAIVHINHPFLERGDGPICLVLAPTRELA  
QQVQQVAAEYCRACRLKSTCIYGGAPKGPQIRDLERGVEICIAATPGRLIDFLECGKTNLR  
RTTYLVLDEADRM LDMGFEPQIRKIVDQIRPDRQTL MWSATWPKEVRQLAEDFLKDYIHI  
NIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEKENKTIVFVETKRRCDELTRK  
MRRDGWPAMGIHGDKSQQERDWVLNEFKHGKAPILIATDVASRGLDVEDVKFVINYDYPN  
SSEDIHRIGRTARSTKTGTAYTFFTPNNIKQVSDLISVLREANQAINPKLLQLVEDRGS  
GRSRGRGGMKDDRRDRYSAGKRGGFNTFRDRENYDRGYSSLLKRDFGAKTQNGVYSAANY  
TNGSFGSNFVSAGIQTSFRTGNPTGTQNGYDSTQQYGSNVPNMHNGMNQQAYAYPATAA  
APMIGYPMPTGYSQ

>sp|P59665|DEF1\_HUMAN Neutrophil defensin 1 OS=Homo sapiens GN=DEFA1 PE=1 SV=1

MRTLAILAAILLVALQAQAEPLQARADEVAAPEQIAADIPEVVVSLAWDESLAPKHPGS  
RKNMACYCRIPACIAGERRYGTCTIYQGRLWAFCC

>sp|Q9H4E7|DEFI6\_HUMAN Differentially expressed in FDCP 6 homolog OS=Homo sapiens GN=DEF6  
PE=1 SV=1

MALRKELLKSIWYAFTALDVEKSGKVSQSLKVLSHNLYTVLHIPHDPVALEEHFRDDDD  
GPVSSQGYMPYLNKYILDKVEEGAFVKEHFDELCTWLTAKKNYRADSNNGNSMLSNQDAFR  
LWCLFNFLSEDKYPLIMVPDEVEYLLKKVLSMSLEVSLGELEELLAQEAQVAQTTGGLS  
VWQFLELFNSGRCLRGVGRDTLSMAIHEVYQELIQDVLKQGYLWKRGHLLRNWAERWFQL  
QPSCLCYFGSEECKEKRGIIPLDAHCCVEVLPDRDGKRCMFCVKTANRTYEMSASDTRQR  
QEWTAATQMAIRLQAEGKTSLHKDLKQKRREQREQRRRAAKEEELLRLQQLQEEKERK  
LQELELLQEAQRQAERLLQEEEEERRRSQHRELQQALEGQLREAEQARASMQAEMELKEEE  
AARQRRIKELEEMQRLQALQLEVKARRDEESVRIAQTRLLEEEEEKLKQLMQLKEEQ  
ERYIERAQKEEELQQEMAQQSRSLQQAQQQLEEVQRNRQRADEDVEAAQRKLQASTNV  
KHWNVQMNRLMHPIEPGDKRPVTSSSFSGFPPLLAHRDSSLKRLTRWGSQGNRTPSPNS  
NEQQKSLNGGDEAPAPASTPQEDKLDPAPE

>sp|Q16854|DGUOK\_HUMAN Deoxyguanosine kinase, mitochondrial OS=Homo sapiens GN=DGUOK PE=1  
SV=2

MAAGRLFLSRLRAPFSSMAKSPLEGVSSSRGLHAGRGPRRLSIEGNIAVGKSTFVKLLTK  
TYPEWHVATEPVATWQNIQAAGTQKACTAQSLGNLLDMMYREPARWSYTFQTFSLRLK  
VQLEPFPEKLLQARKPVQIFERSVYSDRYIFAKNLFENGSLSDIEWHIYQDWSHFLLEW  
ASRITLHGFYILQASPQVCLKRLYQRAREEEKGIELAYLEQLHGQHEAWLIHKTTKLHFE  
ALMNIPVLVLVDVNDDFSEEVTKQEDLMREVENTFVKNL

>sp|Q86SQ9|DHDDS\_HUMAN Dehydrodolichyl diphosphate synthase complex subunit DHDDS OS=Homo  
sapiens GN=DHDDS PE=1 SV=3

MSWIKEGELSLWERFCANIKAGPMPKHIAFIMDGNRRYAKKCQVERQEGHSQGFNKLAE  
TLRWCLNLGILEVTYAFSIFENFKRSKSEVDGLMDLARQKFSRLMEEKEKLQKHGVCIRV  
LGDHLPLDLQELIAQAVQATKNYNKCFNLVCFAYTSRHEISNAVREMAWGVQGLLDP  
SDISESLLDKCLYTNRSPHPDILIRTSGEVRLSDFLLWQTSLSCLVFQPVLPWEYTFWNL  
FEAILQFQMNHSLVKARDMYAEERKQQLERDQATVTEQLLREGLQASGDAQLRRLRLH  
KLSARREERVQGFLLQALELKRADWLARLGTASA

>sp|P00367|DHE3\_HUMAN Glutamate dehydrogenase 1, mitochondrial OS=Homo sapiens GN=GLUD1  
PE=1 SV=2

MYRYLGEALLSRAGPAALGSASADSAALLGWARGQPAAPQPGLALAARRHYSEAVADR  
EDDPNFFKMVEGFFDRGASIVEDKLVEDLRTRESEEQKRNVRGILRIKPCNHVLSLSF  
PIRRDDGSWEVIEGYRAQHSQHRTPCGGIRYSTDVSVDEVKALASLMTYKCAVVDVPFG  
GAKAGVKINPKNYTDNELEKITRRFTMELAKKGFIPGIDVPAPDMSTGEREMSWIADTY  
ASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGIENFINEASYMSILGMPGFG  
DKTFVVQGFGNVGLHSMRYLHRFGAKCIAVGESDGSIWNPDGIDPKELEDFKLQHGSILG  
FPKAKPYEGSILEADCILIPAASEKQLTKSNAPRVKAKIIAEGANGPTPEADKIFLER  
NIMVIPDLYLNAGGVTVSYFEWLKLNHVSYGRLTFKYERDSNYHLLMSVQESLERKFGK  
HGGTIPIVPTAEFQDRISGASEKDIVHSGLAYTMERSARQIMRTAMKYNLGLDLRTAAYV  
NAIEKVFVKYNEAGVTFT

>sp|Q6UWP2|DHR11\_HUMAN Dehydrogenase/reductase SDR family member 11 OS=Homo sapiens  
GN=DHRS11 PE=1 SV=1

MARPGMERWRDLALVTGASGGIGAAVARALVQQGLKVVGCA RTVGNIEELAAECKSAGY  
PGTLIPYRCDLSNEEDILSMFSAIRSQHSVDICINNAGLARPD TLLSGSTSGWKDMFNV  
NVLALSICTREAYQSMKERNVDDGHI ININMSGHRVLP LSVTHFY SATKYAVTALTEGL  
RQELREAQTHIRATCISPGVVETQFAFKLHDKDPEKAAATYEQMKCLKPEDVAEAVIYVL  
STPAHIQIGDIQMRPTEQVT

>sp|Q6UX07|DHR13\_HUMAN Dehydrogenase/reductase SDR family member 13 OS=Homo sapiens  
GN=DHRS13 PE=2 SV=1

MEALLLGAGLLL GAYVLVYYNLVKAPPCGGMGNLRGRTAVVTGANS GIGKMTALELARRG  
ARVVLACRSQERGEAAAFDLRQESGNN EIVFMALDLASLASVRAFATAFLSSEPRLDILI  
HNAGISSCGRTREAFNLLL RVNHIGPFL LTHLLLPCLKACAPSRVVVVASAAHCRGR LDF  
KRLDRPVVGWRQELRAYADTKLANVLFARELANQLEATGVT CYAAHPGPVNSELFLRHVP  
GWL RPLL RPLAWLVRAPRGG AQTPLYCALQEGIEPLSGRYFANCHVEEVPPAARD DRAA  
HRLWEASKRLAGLPGEDAEPDEDPQSEDSEAPSSLSTPHPEEPTVSQPYPSPQSSPDLS  
KMTHRIQAKVEPEIQLS

>sp|Q01459|DIAC\_HUMAN Di-N-acetylchitobiase OS=Homo sapiens GN=CTBS PE=1 SV=1

MSR PQLR RWLVSSPPSGV PGLALLALLALLALRLAAGTDCPCPEPELCRPIRHHPDFEV  
FVFDVGQKTWKS YDWSQITTVATFGKYDSEL MCYAHSKGARVVLKGDVSLKDIIDPAFRA  
SWIAQKLNLA KTQYMDGINIDIEQEVNCL SPEYDALTALVKET TDSFHREIEGSQVTFDV  
AWSPKNIDRR CYN YTG IADACDFLVM SYDEQSQIWSECIAAANAPYNQTLTG YNDYIKM  
SINPKKLVMGVPWYG DYTCNLN SEDHVCTIAKVPFRGAPCSDAAGRQVPYKTIMKQINS  
SISGNLWDK DQRAPYNYKDPAGHFHQVWYDNPQSISLKATYIQNYRLRGIGMWNANCLD  
YSGDAVAKQQTEEMWEVLKPKLLQR

>sp|O60610|DIAP1\_HUMAN Protein diaphanous homolog 1 OS=Homo sapiens GN=DIAPH1 PE=1 SV=2

MEPPGGSLGPGRGTRDKKKGRSPDELPSAGDGGKSKKFTL KRLMADELERFTSMRIKKE  
KEKPNSAHRNSSASYGDDPTA QSLQDVSDEQVLVLF EQMLLDMNLNEEKQQPLREKDII I  
KREMVSYLYTSKAGMSQKESSKSAMMYIQELRSGLRDMPL LSCLESLRVSLNNNPVSWV  
QTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIRCLKAFMNNKFGIKTMLETEEG  
ILLV RAMDPAVPMMDIAAKLLSALC ILPQPEDMNERVLEAMTERAEMDEVERFQPLLD  
GLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDLREIENEDMRV  
QLNVFDEQGEEDSYDLKGR LDDIRMEMDDFNEVFQILLNTVKDSKAEPHFLSILQHLLLV  
RNDYEARPQYYK LIEECISQIVLHKNGADPDFKCRHLQIEIEGLIDQMIDKTKVEKSEAK  
AAELEKKLDSEL TARHELQVEMKKMESDFEQKLQDLQGEKDALHSEKQQTATEKQDLEAE  
VSQLTGEVAKLTKELED AKKEMASLSAAAITVPPSVPSRAPVPPAPPLPGDSGTIIPPPP  
APGDSTTPPPPPPPPPPPPLPGGVCISSPPSLPGGT AISPPPLSGDATIPPPPPLPEG  
VGIPSPSSLPGGT AIPPPPPLPGSARIPPPPPLPGSAGIPPPPPLPGEAGMPPPPPL  
PGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFGFGVPAAPVLPFGLTPKKLYKPEVQLR  
RPNWSKLVAEDLSQDCFWTKVKEDRFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKKS  
VQKKVKELKVLDSKTAQNLSIFLGSFRMPYQEIKNVILEVNEAVL TESMIQNLIKQMP E  
PEQLKMLSELKDEYDDLAESEQFGVVMGTVPRLRPRLNAILFKLQFSEQVENIKPEIVSV  
TAACEELRKSESFSNLLEITLLVGNYMNAGSRNAGAFGNISFLCKLRDTKSTDQKMTLL  
HFLAELCENDYPDVLKFPDELAHVEKASRVSAENLQKNLDQMKKQISDVERDVQNFPAAT  
DEKDKFVEKMTSFVKDAQEQYNKL RMMHSNMETLYKELGEYFLFDPKKLSVEEFFMDLHN  
FRNMF LQAVKENQKRRETEEKMRRAKLAK EKA EKERLEKQQKREQLIDMNAEGDETGVMD  
SLLEALQSGAAFRKRGRPRQANRKAGCAVTSLLASELTKDDAMA AVPAKVSKNSETFPTI

LEEAKELVGRAS

>sp|P16444|DPEP1\_HUMAN Dipeptidase 1 OS=Homo sapiens GN=DPEP1 PE=1 SV=3

MWSGWWLWPLVAVCTADFFRDEAERIMRDSPIVDGHNLPWQLLDMFNRLQDERANLTT  
LAGHTHTNIPKLRAGFVGQFWVSYTPCDTQNKDAVRRTLEQMDVVHRMCRMPETFLYVT  
SSAGIRQAFREGKVASLIGVEGGHSIDSSLGVLRALYQLGMRYLTLTHSCNTPWADNWL  
DTGDSEFQSQGLSPFGQRVVKELNRLGVLIDLAHVSATMKATLQLSRAPVIFSHSSAYS  
VCASRRNVPDDVLRVLVKQTDSLVMVFNYYISCTNKANLSQVADHLDHIKEVAGARAVG  
FGGDFDGVPRVPEGLEDSKYPDLIAELLRRNWTEAEVKGALADNLLRVFEAVEQASNLT  
QAPEEEEPIPLDQLGGSCRTHYGYSSGASSLHRHWGLLASLAPLVLCLSLL

>sp|P09884|DPOLA\_HUMAN DNA polymerase alpha catalytic subunit OS=Homo sapiens GN=POLA1  
PE=1 SV=2

MAPVHGDDSLSDSGSFVSSRARREKSKKGRQEALERLKKAKAGEKYKYEVEDFTGVYEE  
VDEEQYSKLVQARQDDDWIVDDDGIGYVEDGREIFDDLEDDALDADEKGDGKARNKDK  
RNVKKLAVTKPNNIKSMFIACAGKKTADKAVDLSDGLLGDILQDLNTEPTQITPPPMI  
LKKRSIGASPNPFSVHTATAVPSGKIASPVSKEPPLTPVPLKRAEFAGDDVQVESTEE  
EQESGAMEFEDGDFDEPMEVEEVDLEPMAAKAWDKESEPAEEVKQEADSGKGTVSYLGSF  
LPDVSCWDIDQEGDSSFSVQEVQVDSSHLPLVKGADEEQVFHFYWLDAYEDQYNQPGVVF  
LFGKVWIESAETHVSCVMVKNIERTLYFLPREMKIDLNTGKETGTPISMKDVYEEFDEK  
IATKYKIMKFKSKPVEKNYAFEIPDVPEKSEYLEVKYSAEMPQLPQDLKGETFSHVFGTN  
TSSLELFLMNRKIKGPCWLEVKSQQLLNQPVSWCKVEAMALKPDLVNVIKDVSPPLVVM  
AFSMKTMQNAKNHQNEIIAAMAALVHHSFALDKAAPKPPFQSHFCVVSCKPKDCIFPYAFKE  
VIEKKNVKEVAATERTLLGFFLAKVHKIDPDIIVGHNIYGFELVLLQRINVCKAPHWS  
KIGRLKRSNMPKLGGRSFGERNATCGRMICDVEISAKELIRCKSYHLSLVQILKTER  
VVIPMENIQNMYSESSQLLYLLEHTWKDAKFILQIMCELVNPLALQITNIAGNIMSRTL  
MGGRSERNEFLLLHAFYENNYIVPDQKIFRKPQQKLGDDEEIDGDTNKYKKGRKKAAYA  
GGLVLDPKVGFYDKFILLDFNSLYPSIIQEFNICFTTVQRVASEAQKVTEDGEQEIQPE  
LPDPSLEMGILPREIRKLVERRKQVKQLMKQQDLNPDILQYDIRQKALKLTANSYMGCL  
GFSYSRFYAKPLAALVYTKGREILMHTKEMVQKMNEVIYGDTSIMINTNSTNLEEVFK  
LGNVKVKSEVNKLYKLEIDIDGVFKSLLLLKKKKYAALVEPTSDGNYVTKQELKGLDIV  
RRDWCDLAKDTGNFVIGQILSDQSRDTIVENIQKRLIEIGENVLNGSVVPSQFEINKALT  
KDPQDYPDKKSLPHVHVALWINSQGGRKVKAGDTVSYVICQDGSNLTAQRAYAPEQLQK  
QDNLTIDTQYYLAQQIHPVVARICEPIDGIDAVLIATWGLDPTQFRVHHYHKDEENDAL  
LGGPAQLTDEEKYRDCERFKCPCPTCGTENIYDNVFDGSGTDMEPSLYRCSNIDCKASPL  
TFTVQLSNKILMDIRRFIKKYDGWLICEEPTCRNTRHLPLQFSRTGPLCPACMKATLQ  
PEYSDKSLYTQLCFYRIFDAECALEKLTDDHEKDKLKKQFFTPKVLQDYRKLKNTAEQF  
LSRSGYSEVNLSKLFAGCAVKS

>sp|Q9NP87|DPOLM\_HUMAN DNA-directed DNA/RNA polymerase mu OS=Homo sapiens GN=POLM PE=1  
SV=1

MLPKRRRARVGSPSGDAASSTPPSTRFPGVAIYLVPRMGRSRRFLTGLARSKGFRVLD  
ACSSEATHVMEETSAAEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQPVPECR  
HRLEVAGPRKGPLSPAWMPAYACQRPTPLTHHTGLSEALEILAEAAGFEGSEGRLLTFC  
RAASVLKALPSPVTTLSQLQLPHFGEHSSRVVQELLEHGVCSEEVERRRSERYQTMKLF  
TQIFGVGVKTADRWYREGLRTLDDLREQPQKLTTQQQKAGLQHHQDLSTPVLRSVDALQQ  
VVEEAVGQALPGATVTLTGGFRRGKLQGHVDVFLITHPKEGQEAGLLPRVMCRLQDQGLI



LYHQHQHSCCESPTRLAQQSHMDAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLV  
VAPVSQFPFALLGWTGSKLFQRELRRFSRKEKGLWLNSHGLFDPEQKTFQAASEEDIFR  
HLGLEYPPEQRNA

>sp|Q6WOC5|DPPA3\_HUMAN Developmental pluripotency-associated protein 3 OS=Homo sapiens  
GN=DPPA3 PE=2 SV=1

MDPSQFNPTYIPGSPQMLTEENSRDDSGASQISSETLIKNSNLTINASSESVSPLSEAL  
LRRESVGA AVLREIEDEWLYSRRGVRTLSSVQREKMARLRYMLLGGVTRHERRPTNKEPK  
GVKKESRPFKPCSFVSNWDPSENARIGNQDTKPLQP

>sp|A6NC42|DPPA5\_HUMAN Developmental pluripotency-associated 5 protein OS=Homo sapiens  
GN=DPPA5 PE=2 SV=1

MGTLPARRHIPWVKVPEDLDPEVFQVQTRLLKAIFGPDGSRIPYIEQVSKAMLELKAL  
ESSDLTEVVVYGSYLYKLRTKWMLQSMAEWHRQRQERGMLKLAEMNALELGPWMK

>sp|O14531|DPYL4\_HUMAN Dihydropyrimidinase-related protein 4 OS=Homo sapiens GN=DPYL4  
PE=1 SV=2

MSFQGGKSIPRITSDRLLIRGGRIVNDQSFYADVHVEDGLIKQIGENLIVPGGIKTIDA  
HGLMVLPGGVDVHTRLQMPVLGMPADDFCQGTAAALAGGTTMILDHVFPDGTGVSLLAAY  
EQWRERADSAACCDYSLHVDITRWHESIKEELEALVKEKGVNSFLVFMAYKDRCQCSDSQ  
MYEIFSIIRDLAGALQVHAENGDIVEEQKRLELGITGPEGHVLSPHEEVEAEAVYRAV  
TIAKQANCPLYVTKVMSKGAADAIQAKRRGVVVFGEPI TASLGTGSHYWSKNWAKAAA  
FVTSPVPNPDTTADHLTCLSSGDLQVTGSAHCTFTTAQKAVGKDNFALIPEGTNGIEE  
RMSMVWEKCVASGKMDENEFVAVTSTNAAKIFNFYPRKGRVAVGSDADLVIWNPKATKII  
SAKTHNLNVEYNIFEGVECRGAPAVVISQGRVALEDGKMFVTPGAGRFVPRKTFPDFVYK  
RIKARNRLAEIHGVPRLYDGPVHEVMVPAKPGSGAPARASCPGKISVPPVRNLHQSGFS  
LSGSQADDHIARRTAQKIMAPPGGRSNITSLS

>sp|POCG22|DR4L1\_HUMAN Putative dehydrogenase/reductase SDR family member 4-like 1  
OS=Homo sapiens GN=DHRS4L1 PE=5 SV=1

MHKARLRGHCARAGKSVRLASSGMTRRDPLTNKVALVTASTDWIGFAVAQRLAQDGAHV  
VSRRKQQNVDAQAVTLQGEGLSMTGTVCHVGKMKDWERLVATAMKLHGVIDILSLITNS  
KRGLFWFTLLQTAEAWDRNLDINGKALALMIKAVVPEMEKRGGSVGLASVAAFRPLP  
GFSPYNVSKTALLGLNKTALIELAPRNIRVNCLAPGLIKTSFSRMLWMDKEKEESMKETL  
RIRRLGEPEDSLGIVSFLCSEDASYLTGETVMVGGGTPSRL

>sp|Q96MC2|DRC1\_HUMAN Dynein regulatory complex protein 1 OS=Homo sapiens GN=DRC1 PE=2  
SV=2

MNPPGSLEALDPNVDEHLSTQILAPSVHSDNSQERIQARRLRIAARLEARREALGEYLD  
GKKESEEDQSKSYKQKEESRLKAKLLLCGTELVTNIQVAIDIREIHRRVEEEEIKRQRI  
EKLENEVKTSQDKFDEITSKWEKGKQKRIQELWEMLNTQQQLHCAGLLEDKNKLISELQQ  
ELKTKDDQYVKDLKKQSDDICLLERMEEQVKNVMKTFREELYNIEKAFAEVERQELLASN  
KKKWEQALQAHNAKELEYLNRMKKVEDYEKQLNRQRIWDCEEYNMIKIKLEQDVQILEQ  
QLQQRKAIYQLNQEKL EYNLQVLKKRDEESTVIKSQQKRKINRLHDILNNLRSKYAKQIK  
QFQENQSLTSDYKRLVMQFKELQKAMRHFALIDDEKFWEIWMNEEEAKDLIARAFD  
VDRIITHHLGLPWAAPDFWFLNNVGPI SQQPQKSATQIVEEMLMRSEEEAEAEAEPE  
SYLDLPKQISEKTTKRILMLLCDSEGFLESKLLSLLPLEQNECYLLRLDAIFSALGIE  
SEDDLYKLVNFFLKYRAHRLSSSLQIKPCSQASMEKASMEETSTRSELEAEQTEMEGEKEE  
SLVEGEKEEEETPPSPWV IHPNDVLKILEAFVMGLKKPRDSRAPLRVQKNVRDNSKDSE

YWQALTTVIPSSKQNLWDALYTALEKYHLVLTQRAKLLLENSSEQQNTELQALLQQYLN  
SKINSELQVPPTQVLRVPTK

>sp|P21728|DRD1\_HUMAN D(1A) dopamine receptor OS=Homo sapiens GN=DRD1 PE=1 SV=1

MRTLNTSAMDGTGLVVERDFSVRILTACFLSLLILSTLLGNTLVCAAVIRFRHLRSKVTN  
FFVISLAVSDLLVAVLVMPWKAVAEIAGFWPFGSFCNIWVAFDIMCSTASILNLCVISVD  
RYWAISSPFYERKMTPKAAFILISVAWTLVSLISFIPVQLSWHKAKPTSPSDGNATSLA  
ETIDNCSSLSRTYAISSSVISFYIPVAIMIVTYTRIYRIAQKQIRRIAALERAHAVHAKN  
CQTTTNGKPVESQPESSFKMSFKRETKVLKTLVIMGVFVCCWLPFFILNCILPFCGS  
GETQPFCDISNTFDVFVWFGWANSSLNPIIYAFNADFRKAFSTLLGCYRLCPATNNAIET  
VSINNGAAMFSSHHEPRGSISKECNLVYLIPHAVGSSEDLKKEEAAGIARPLEKLSPAL  
SVILDYDTDVSLEKIQPITQNGQHPT

>sp|P55039|DRG2\_HUMAN Developmentally-regulated GTP-binding protein 2 OS=Homo sapiens  
GN=DRG2 PE=1 SV=1

MGILEKISEIEKEIARTQKNKATEYHLGLLKAKLAKYRAQLLEPSKSASSKGEFDMKS  
GDARVALIGFPSVGKSTFLSLMTSTASEAASYEFTTLTCIPGVIEYKGANIQLLDLPGII  
EGAAQKGKGRQVIAVARTADVIIMMLDATKGEVQRSLEKELESVGIRLNKHKPNIFYK  
PKKGGGISFNSTVTLTQCSEKLVQLILHEYKIFNAEVLFREDCSPDEFIDVIVGNRVYMP  
CLYVYNKIDQISMEEVDRLARKPNSVVISCGMKLNLDYLLEMLWEYLALTCIYTKKRGQR  
PDFTDAILLRKGASVEHVCHRIHRSLASQFKYALVWGTSTKYSPQRVGLTHTMEHEDVIQ  
IVKK

>sp|Q6PGQ1|DRIC1\_HUMAN Aspartate-rich protein 1 OS=Homo sapiens GN=DRIC1 PE=1 SV=1

MGNILTCCINSHCGWPRGKDAPCYESDTDIYETVAAATSESTTVEPGKLDVGATEGQDLQ  
HISNQKMPTGPPEDRLSLKFLPSSEEDNDDAKILPSPVQGSSEDNLSLVCLPRSEDDDCD  
DDDDDDAQILPSRVQGGCYRFDSSSCSEDNLSLVCLPRSEDDDCDDDDDDAQILPSPVQ  
ACSEDSLFLRCSLRHKDEEEEDDDIHITARIESDLTLESLSDEEIHGP

>sp|Q6IAN0|DRS7B\_HUMAN Dehydrogenase/reductase SDR family member 7B OS=Homo sapiens  
GN=DHRS7B PE=1 SV=2

MVSPATRKSLPKVKAMDFITSTAILPLLFGCLGVFGLFRLLQWVRGKAYLRNAVVTGA  
TSGLGKECAKVFYAAGAKLVLCGRNGGALEELIRELTASHATKVQTHKPYLVTFDLTDSG  
AIVAAAAEILQCFGYVDILVNNAGISYRGTIMDTTVDDVKRVMETNYFGPVALTALLPS  
MIKRRQGHIVAIISSIQGKMSIPFRSAYAASKHATQAFFDCLRAEMEQUEYIEVTVISPGYI  
HTNLSVNAITADGRSYGVMDDTTTAQGRSPVEVAQDVLAAGVKKKKDVILADLLPSLAVYL  
RTLAPGLFFSLMASRARKERKSKNS

>sp|P59022|DSC10\_HUMAN Down syndrome critical region protein 10 OS=Homo sapiens GN=DSCR10  
PE=2 SV=1

MQIVQGFPADAPLCALMWTCFLLPGLQTETPYPCTSLCLSSSQSAHPPLPVRVFAESG  
YGIPFCAEPCSRVTVCHLQAVPVCMPV

>sp|Q14574|DSC3\_HUMAN Desmocollin-3 OS=Homo sapiens GN=DSC3 PE=1 SV=3

MAAAGPRRSVRGAVCLHLLLTIVIFSRAGEACKKVILNVPKLEADKIIGRVNLEECFRS  
ADLIRSSDPDFRVLNDGSVYTARAVALSDKKRSFTIWLSDKRKQTQKEVTVLLEHQKKVS  
KTRHTRETVLRRAKRRWAPIPCSMQENSLGPFPLFLQQVESDAAQNYTVFYSISGRGVDK  
EPLNLFYIERDTGNLFCTRPVDREEYDVFDLIAYASTADGYSADLPLPLPIRVEDENDNH  
PVFTEAIYNFEVLESSRPGTTGVVVCATDRDEPDTMHLRLKYSILQQTPRSPGLFSVHPS  
TGVITTVSHYLDREVVDKYSIMKVQMDGQFFGLIGTSTCIITVTDSDNAPTFRQNAY

EAFVEENAFNVEILRIPIEDKDLINTANWRVNFTILKGNENGHFKISTDKETNEGVLSSV  
KPLNYEENRQVNLEIGVNNEAPFARDIPRVLTALNRALVTVHVRDLDEGPECTPAAQYVRI  
KENLAVGSKINGYKAYDPENRNGNGLRYKKLHDPKGWITIDEISGSIITSKILDREVETP  
KNELYNITVLAIDKDDRSCTGTLAVNIEDVNDNPPEILQEYVVICKPKMGYTDILAVDPD  
EPVHGAPFFYFSLPNTSPEISRLWSLTKVNDTAARLSYQKNAGFQEYTIPTVKDRAGQAA  
TKLLRVNLCECTHPTQCRATSRSTGVILGKWAILAILLGIALLFVLLTLVCGVFGATKG  
KRFPEDLAQQLIIISNTEAPGDDRVCSANGFMTQTTNNSSQGFCGTMGSGMKNGGQETIE  
MMKGGNQTLSECRGAGHHHTLDSRGGHTEVDNCRYTYSEWHSFTQPRLGEKLHRCNQNE  
DRMPSQDYVLTYNYEGRGSPAGSVGCCSEKQEEDGLDFLNNLEPKFITLAEACTKR

>sp|060469|DSCAM\_HUMAN Down syndrome cell adhesion molecule OS=Homo sapiens GN=DSCAM PE=1  
SV=2

MWILALSFLQSFANVFSEDLHSSLYFVNASLQEVVFASTGTLVPCPAAGIPPVTLRWYL  
ATGEEIYDVPGIRHVPNGTLQIFPFPSSSTLIHDNTYYCTAENPSGKIRSQDVHIKA  
VLREPYTVRVEDQKTMRGNAVAFKCIIPSSVEAYITVVSWEKDTVSLVSGSRFLITSTGA  
LYIKDVQNEGLYNYRCITRHYTGETRQNSARLFVSDPANSAPSILDGFDHRKAMAGQ  
RVELPCKALGHPEPDYRWLKDNPLELSGRFQKTVTGLLIENIRPSDSGSYVCEVSNRYG  
TAKVIGRLYVKQPLKATISPRKVSSVGSQVSLSCSVTGTEDQELSWYRNGEILNPCKNV  
RITGINHENLIMDHMVKSDGGAYQCFVRKDKLSAQDYVVVLEDGTPKIIISAFSEKVVSP  
AEPVSLMCNVKGTPPTITWTLDDPILKGGSHRISQMITSEGNVVSYLNISSSQVRDGG  
VYRCTANNSAGVVLYQARINVRGPASIRPMKNITAIAGRDTYIHCRIYGYPIYSIKWYKN  
SNLLPFNHRQVAFENNGTLKLSDVQKEVDEGEYTCNVLVQPQLSTSQSVHVTVKVPPFIQ  
PFEFPRFSIGQRFVIPCvvvsgdlpITITWQKDRPIPGSLGVTIDNIDFTSSLRISNLS  
LMHNGNYTCIARNEAAVEHQSQLIVRVPPKFVVQPRDQDGIYGKAVILNCSAEGYPVPT  
IVWFKSKGAGVPQFPALNGRIQVLSNGSLLIKHVVEEDSGYYLCKVSNVDGADVSKSM  
YLTVKIPAMITSYPNTTLATQGQKKEMSCTAHGEKPIIVRWEKEDRIINPEMARYLVSTK  
EVGEEVISTLQILPTVREDSGFFSCHAINS YGEDRGI IQLTVQEPPDPPEIEIKDVKART  
ITLRWTMGFDGNSPITGYDIECKNKSDSWDSAQRTKDVSPQLNSATIIDIHPSSTYSIRM  
YAKNRIGKSEPSNELTITADEAAPDGPPQEVHLEPISSQSIRVTWKAPKKHLQNGIIRGY  
QIGYREYSTGGNFQFNIISVDTSGDSEVYTLNLDNLKFTQYGLVVQACNRAGTGPSSEI  
TTTLEDVPSYPPENVQAIATSPESISISWSTLSKEALNGILQGFRVIYWANLMDGELGEI  
KNITTTQPSLELDGLEKYTNYSIQVLAFTTRAGDVRSEQIFTRTKEDVPGPPAGVKA  
SASMVFVSWLPPLKNGIIRKYTVFCSHPYPTVISEFEASPSFSYRIPNLSRNRQYSVW  
VVAVTSAGRGNSSEIITVEPLAKAPARILTFSGTVTPWMKDIVLPCKAVGDPSPAVKWM  
KDSNGTPSLVTIDGRRSIFSNGSFIIRTVKAEDSGYYSCIANNNGSDEIILNLQVQVPP  
DQPRLTVSKTTSSSITLSWLPGDNGGSSIRGYILQYSEDNSEQWGSFIPSPERSYRLEN  
LKCGTWYKFTLTAQNGVGPRISEIEAKTLGKEPQFSKEQELFASINTTRVRLNLIGWN  
DGGCPITSFTLEYRPFGTTVWTTAQTSLSKSYILYDLQEATWYELQMRVCNSAGCAEKQ  
ANFATLNYDGSTIPPLIKSVVQNEEGLTTNEGLKMLVTISCILVGVLVLLFVLLLVVRRRR  
REQRLKRLDAKSLAEMLSKNTRTSDTLKQQQLRMHIDIPRAQLLIEERDTMETIDD  
RSTVLLTDADFGEAAKQKSLTVHTVHYQSVSQATGPLVDVSDARPGTNPTTRRNAKAGP  
TARNRYASQWTLNRPHPTISAHTLTTDWRLPTPRAAGSVDKESDSYSVSPSQDTRARSS  
MVSTESASSTYEELARAYEHAKMEEQLRHAKFTITECFISDTSSEQLTAGTNEYTDSLTS  
STPSESGICRFTASPPKPDGGRVMNMAVPKAHRPGDLIHLPPYLRMDFLNRRGGPGTSR  
DLSLGQACLEPQKSRTLKRPTVLEPIPMEAASSASSTREGQSWQPGAVATLPQREGAELG

QAAKMSSSQESLLDSRGHLKGNNPYAKSYTLV

>sp|P57055|DSCR6\_HUMAN Protein ripply3 OS=Homo sapiens GN=RIPPLY3 PE=2 SV=1

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RADQHTFGSKGAFGFQHPVRVYLPMSKRQEYLRSSGEQVLASFPVQATIDFYDDESTESA  
SEAEPEEGPPPLHLLPQEVGGRQENGPGGKGRDQGINQGQRSSGGGDHWGEGPLPQGV  
SRGGKCSSSK

>sp|Q96T75|DSCR8\_HUMAN Down syndrome critical region protein 8 OS=Homo sapiens GN=DSCR8  
PE=1 SV=2

MKEPGPNFVTVRKGLHSFKMAFVKHLLFLSPRLECSGSITDHCSLHLPVQEILMSQPPE  
QLGLQTNLGNQESSGMMKLFMPRPKVLAQYESIQFMP

>sp|Q8IZU8|DSEL\_HUMAN Dermatan-sulfate epimerase-like protein OS=Homo sapiens GN=DSEL  
PE=2 SV=2

MALMFTGHLLFLALLMFAFSTFEESVSNSYSEWAVFTDDIDQFKTQKVQDFRPNQKLKSM  
LHPSLYFDAGEIQAMRQKSRAHLHLFRAIRSAVTVMLSNPTYLPPPKHADFAAKWNEI  
YGNLPLALYLCLCPEDKVAFEFVLEYMDRMVGYKDWLVENAPGDEVPIGHSLTGFATA  
FDFLYNLLDNHRRQKYLEKIWVITEEMEYYSKVRSWGKQLLHNHQATNMIALLTGALVTG  
VDKGSKANIWKQAVVDVMEKTMFLLNHIVDGSLEGVAYGSYTAHSVQYVFLAQRHFNI  
NNLDNNWLKMHFWFYATLLPGFQRTVGIADSNYNWFYGPESQLVFLDKFILKNGAGNWL  
AQQIRKHRPKDGPMPSTAQRWSTLHTEYIWDYDQLTPQPPADYGTAKIHTFPNWGVV  
TYGAGLPNTQTNTFVSFKSGKLGRAVDIVHFQPYSWIDGWSFNPGHEHPDQNSFTFAPN  
GQVFVSEALYGPKLSHLNNLVFAPSPSSQCNKPWEGQLGECAQWLKWTGEEVGDAAGEI  
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FFHNLIDIDFKYIPYKFMNRYNGAMMDVWDAHYKMFWDHGHGNSPMASIQEAEQAAEFKKR  
WTQFVNVTQMEPTITRIAYVFGPYINVSSCRFIDSSNPLQISLNVNTEHVVSIVTD  
YHNLKTRFNYLGGFGFASVADQGGITRFGGLGTQAIKPVHRDRIIFPFGFKFNIAGLIL  
CISLVILTFQWRFYLSFRKLMRWILILVIALWFIELDVWSTCSQPICAKWTRTEAGSK  
KSLSSEGHMDLPDVVITSLPGSGAEILKQLFFNSSDFLYIRVPTAYIDIPETELEIDSF  
VDACEWKVSDIRSGHFRLRGWLQSLVQDTKLHLQNIHLHEPNRGKLAQYFAMNKDKKRK  
FKRRESLPEQRSQMKGAFDRDAEYIRALRRHLVYYP SARPVLSLSSGSWTLKLHFFQEVL  
GASMRALYIVRDPRAWIYSMLYNSKPSLYSLKNVPEHLAKLFKIEGGKGCNLNSGYAFE  
YEPLRKELSKSKSNAVSLSHLWLANTAALRINTDLLPTSYQLVKFEDIVHFPQKTER  
IFAFLGIPLSPASLNQILFATSTNLFYLPYEGEISPTNTNVWKQNLPRDEIKLIENICWT  
LMDRLGYPKFMD

>sp|Q86Y01|DTX1\_HUMAN E3 ubiquitin-protein ligase DTX1 OS=Homo sapiens GN=DTX1 PE=1 SV=1

MSRPGHGLMPVNLGFPQNVARVVVWEWLNEHSRWRPYTATVCHHIENVLKEDARGSV  
VLGQVDAQLVPIYIDLQSMHQFRQDTGTMRPVRRNFYDPSSAPGKGIVWEWENDGGAWTA  
YDMICITIQNAYEKQHPWLDLSSLGFCYLIYFNSMSQMNRQTRRRRLRRRLDLAYPLT  
VGSIPKSQSWPVGASSGQPCSCQCLLVNSTRAASNAILASQRRKAPPAPLPPPPPPGG  
PPGALAVRPSATFTGAALWAAPAAGPAEPAPPPGAPRSPGAPGGARTPGQNNLNRPGPQ  
RTTSVSARASIPPGVPALPVKNLNGTGPVHPALAGMTGILLCAAGLPVCLTRAPKPIHP  
PPVSKSDVKPVGVPVGVCRKTKKKHLKSKNPEDVVRRYMQVKVNPDEDTICMERLVT  
ASGYEGLVRHKGVRPELVGRLGRCGHMYHLLCLVAMYSNGKDGSLQCPTCKAIYGEKTG  
TQPPGKMEFHLIPHSLPGFPDQTIRIVYDIPTGIQGPEHPNPGKKFTARGFPRHCYLPN  
NEKGRKVLRLITAWERRLIFTIGTSNTTGESDVTVVWNEIHHKTEFGSNLTGHGYPDASY

LDNVLAELTAQGVSEAAAKA

>sp|POCJ90|DU4L7\_HUMAN Double homeobox protein 4-like protein 7 OS=Homo sapiens GN=DUX4L7  
PE=3 SV=1

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSQLRQHRRESRPWPGRRGPPGRRKRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRARRHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSAARAAPALQPSQAAPAEGVSQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQQGGVLA  
PPTSQGGSPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASASARQQMQGIPAPSQALQ  
EPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEAASLEAPLSEEEYRAL  
LEEL

>sp|075319|DUS11\_HUMAN RNA/RNP complex-1-interacting phosphatase OS=Homo sapiens  
GN=DUSP11 PE=1 SV=1

MSQWHHPRSGWRRRDFSGRSSAKKKGGNHIPERWKDYLPVGQRMPGTRFIAFKVPLQKS  
FEKKLAPEECFSPLDLFNKIREQNEELGLIIDLTYTQRYKPEDLPETVPYLKIFTVGHQ  
VPDDETIFKFKHAVNGFLKENKDNKDIGVHCTHGLNRTGYLICRYLIDVEGVRPDDAIE  
LFNRCRGHCLERQNYIEDLQNGPIRKNWNSSVPRSSDFEDSAHLMQPVHNKPVKQGPYN  
LHQIQGHSAPRHFTQTQSLQQSVRKFSENPHVYQRHHLPPPGPPGEDYSHRRYSWNVKP  
NASRAAQDRRRWYPYNYSRLSYPACWEWTQ

>sp|P28562|DUS1\_HUMAN Dual specificity protein phosphatase 1 OS=Homo sapiens GN=DUSP1  
PE=1 SV=3

MVMEVGTLDAGGLRALLGERAAQCLLLDCRSFFAFNAGHIAGSVNVRFSITVRRRAKGAM  
GLEHIVPNAELRGRLLAGAYHAVLLDERSAALDGAKRDGTALAAGALCREARAAQVFF  
LKGGYEAFSASCPELCSKQSTPMGLSLPLSTSVPSAESGCSSCSTPLYDQGGPVEILPF  
LYLGSAYHASRKMDLALGITALINVSANCPNHFEQHYQKSIIPVEDNHKADISSWFNEA  
IDFIDSIGNAGGRVVFHCQAGISRSATICLAYLMRTNRVKLDEAFEFVKQRRSIIISPNS  
FMGQLLQFESQVLAPHCSAEAGSPAMAVLDRGTSTTTVFNFVPSIPVHSTNSALSYLQSP  
ITTSPSC

>sp|Q96PT3|DUX5\_HUMAN Double homeobox protein 5 OS=Homo sapiens GN=DUX5 PE=2 SV=1

MPAEVHGSPASLCPQSVKFRPGLPEMALLTALDDTLPEEAQGPGRMILLSTPSQSDA  
LRACFERNLYPGIATKEELAQGIDIPEPRVQIWFQNERSCQLRQHRRQSRPWPGRDPQK  
GRRKRTAITGSQTALLLRAFEKDRFPGIAAREELARETGLPESRIQIWFQNRARRHRGQS  
GRAPTQASIRCNAAPIG

>sp|Q9Y463|DYR1B\_HUMAN Dual specificity tyrosine-phosphorylation-regulated kinase 1B  
OS=Homo sapiens GN=DYRK1B PE=1 SV=1

MAVPPGHGPFSGFPGQEHTQVLPDVRLPRRLPLAFRDATSAPLRKLSVDLIKTYKHIN  
EVYYAKKKRRAQAPPQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKG  
SFGQVVKAYDHTQELVAIKIINKKAFLNQAQIELRLLELMNQHDTEMKYIIVHLKRHF  
MFRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLRKLAQQQLCTALLFLATPELSIIHCDL  
KPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG  
CILVEMHTGEPLFSGSNEVDQMNRIEVLGIPPAAMLQAPKARKYFERLPGGGWTLRRT  
KELRKDYQGGPTRRLQEVLGVTGGPGRRAGEPGHSPADYLRFDLVLRLMEYEPAAARI  
SPLGALQHGFRRRTADEATNTGPAGSSASTSPAPLDTCPSSSTASSISSGGSSGSSSDN  
RTYRYSNRYCGGPGPPITDCEMNSPVPPSQPLRPWAGGDVPHKTHQAPASASSLPGTGA

QLPPQPRYLGRPPSPTSPPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR  
PPLPPDDPATLGPLHLGRGVPQSTAASS

>sp|043781|DYRK3\_HUMAN Dual specificity tyrosine-phosphorylation-regulated kinase 3  
OS=Homo sapiens GN=DYRK3 PE=2 SV=3

MGGTARGPGRKDAGPPGAGLPPQQRRLG DGVDTFMMIDETKPPCSNVLCNPSEPPPPR  
RLNMTTEQFTGDHTQHFLDGGEMKVEQLFQEFGNRKSNTIQSDGISDSEKCSPTVSQGKS  
SDCLNTVKSNSSSKAPKVVPLTPEQALKQYKHHLTAYEKLEIINYPEIYFVGPNAKKRHG  
VIGGPNNGGYDDADGAYIHVPRDLAYRYEVLKIIIGKGSFGQVARVYDHKLRQYVALKMV  
RNEKRFRHQAEEIRILEHLKKQDKTGSMNV IHMLESTFRNHVCMFELLSIDL YELIK  
KNKFQGF SVQLVRKFAQSILQSLDALHKNKI IHCDLKPENILLKHHGRSSTKVIDFGSSC  
FEYQKLYTYIQSRFYRAPEIILGSRYSTPIDIWSFGCILAELLTGQPLFPGEDEGDLAC  
MMELLGMPPPKLLEQSKRAKYFINSKGIPRYCSVTTQADGRVVLVGGRSRRGKKGPPGS  
KDWGTALKGCDDYLFIEFLKRCLHWDPSARLTPAQALRHPWISKSVPRPLTTIDKVS GKR  
VVNPASAFQGLGSKLPPVVGIANLKLANKLMSETNGSIPLCSVLPKLIS

>sp|Q03001|DYST\_HUMAN Dystonin OS=Homo sapiens GN=DST PE=1 SV=4

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EDLRDGHNLISLLEVLSGDTLPREKGRMRFHRLQNVQIALDYLKRRQVKLVNIRNDDITD  
GNPKLTGLIWTIILHFQISDIHVTGESEDMSAKERLLLWTQQATEGYAGIRCENFTTCW  
RDGKLFNAIIHKYRPDLIDMNTVAVQSNLANLEHAFYVAEKIGVIRLLDPEDVDVSSPDE  
KSVITYVSSLYDAFPKVPPEGGEGIGANDVEVKWIEYQNMVNYLIQWIRHHVTTMSERTFP  
NNPVELKALYNQYLQFKETEIPPKETEKSKIKRLYKLEIWIIEFGRIKLLQGYHPNDIEK  
EWGKLI IAMLEREKALRPEVERLEMLQQIANRVQRDSVICEDKLILAGNALQSDSKRLES  
GVQFQNEAEIAGYILECENLLRQHVIDVQIILIDGKYYQADQLVQRVAKLRDEIMALRNEC  
SSVYSKGRILTTEQTKLMISGITQSLNSGFAQTLHPSLTSGLTQSLTPSLTSSMTSGLS  
SGMTSRLTPSVTPAYTPGFPGLVPNFSSGVEPNLQTLKLMQIRKPLLKSSLLDQNLTE  
EEINMKFVQDLLNWDVMQVQLDRTEWGS DLPSVESHLENHKNVHRAIEEFESSLKEAKI  
SEIQMTAPLKLTYAEKLHRLESQYAKLLNTRSQRHLDTLHNFVSRATNELIWLNEKEE  
EEVAYDWSERN TNIARKDYHAELMRELDQKEENIKSVQEIAEQLLLENHPARLTIEAYR  
AAMQTQSWILQLCQCVEQHIKENTAYFEFFNDAKEATDYLRNLKDAIQRKYSCDRSSSI  
HKLEDLVQESMEEKEELLQYKSTIANLMGKAKTIIQLKPRNSDCPLKTSIPIKAICDYRQ  
IEITIYKDDECVLANNSHRAKWVISPTGNEAMVPSVCFTVPPNKEAVDLANRIEQYQ  
NVLTLWHESHINMKS VVSWHYLINEIDIRASNVASIKTMLPGEHQVLSNLQSRFEDFL  
EDSQESQVFSGSDITQLEKEVNVCKQYYQELLKSAEREEQESVYNLYISEVRNIRLRL  
NCEDRLIRQIRTPLERDDLHESVFRI TEQEKLKKELERLKDDLGTITNKCEEFFSQAAS  
SSVPTLRSELNVVLQNMNVYMSSTYIDKLKTVNLVLKNTQAAEALVKLYETKLCEEEA  
VIADKNNIENLISTLKQWRSEVDEKRQVFHALEDELQAKAISDEMFKTYKERDLDFDWH  
KEKADQLVERWQNVHVQIDNRLRDLEGIGKSLKYRDTYHPLDDWIQQVETTQRKIQENQ  
PENSKTLATQLNQKMLVSEIEMKQSKMDECQKYAEQYSATVKDYELQTM TYRAMVDSQQ  
KSPVKRRRMQSSADLI IQEFMDLTRYTALVTLM TQYIKFAGDSLKRLEEEESLSEEEK  
EHVEKAKELQKWSNISKTLKDAEKAGKPPFSKQKISSEEISTKKEQLSEALQTIQLFLA  
KHGDKMTDEERNELEKQVKTLQESYNLLFSESLKQLQESQTS GDVKVEEKLDKVIAGTID  
QTTGEVLSVFQAVLRGLIDYDTGIRLLETQLMISGLISPELRKCFDLKDAKSHGLIDEQI  
LCQLKELSKAKEIISAASPTTIPVLDALAQSMITESMAIKVLEILLSTGSLVIPATGEQL  
TLQAFQQNLVSSALFSKVLERQNMCKDLIDPCTSEKVS LIDMVQRSTLQENTGMWLLPV

RPQEGGRITLKCGRNISILRAAHEGLIDRETMFRLLSAQLLSGGLINSNSGQRMTVEEAV  
REGVIDRDTASSILTYQVQTGGIIQSNPAKRLTVDEAVQCDLITSSSALLVLEAQRGYVG  
LIWPHSGEIFPTSSSLQQELITNELAYKILNGRQKIAALYIPESSQVIGLDAKQLGIID  
NNTASILKNITLPDKMPDLGDLEACKNARRWLSFCKFQPSTVHDYRQEEDVFDGEEPVT  
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DVLSSSGVFLNNASGREKDECTATPSSFNKCHCGEPEHEETPENRKCAIDEEFNEMRNTV  
INSEFSQSGKLASTISIDPKVNSSPSVCVPSLISYLTQTELADISMLRSDSENILTNYEN  
QSRVETNERANECSHSKNIQNFPSDLIENPIMKSKMSKFCGVNETENEDNTNRDSPIFDY  
SPRLSALLSHDKLMHSQGSFNDTHTPESNGNKCEAPALSFSDKTMLSGQRIGEFQDQFL  
GIAAINISLPGEYQGKSLNMISSNPQVQYHNDKYISNTSGEDEKTHPGFQQMPEDKEDE  
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FYDTPLFEDDDHDSLLLDGDDRDCLHPEDYDTLQEENDETASPADVFYDVSKENENSMVP  
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ENINTMILLDKMHSCSSLEKQQRVNVVQLASPSENNLVTEKSNLPEYTTIEIAGKSKENLL  
NHMV LKDVLPPIIKDTESEKTFGPASISHDNNNISSTSELGTDLANTKVKLIQGSSELPE  
LTD SVKGKDEYFKNMTPKVDSSLDHI ICTEPDLIGKPAEESHLSL IASVTDKDPQGNGSD  
LIKGRDGKSDILIEDETSIQKMYLGEGEVLVEGLVEEENRHLKLLPGKNTRDSFKLINSQ  
FPFPQITNNEELNQKGS LKKATVTLKDEPNNLQII VSKSPVQFENLEE IFDTSVSKEISD  
DITS DITSWEGNTHFEESFTDGPEKELDLFTYLKHCANIKAKDVAKPNEDVP SHVLITA  
PPMKEHLQLGVNNTKEKSTSTQKDSPLNDMIQSNDLCSKESISGGGTEISQFTPESIEAT  
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ALSPRSQEKEVQIPELSQVFVEDVKDILKSRLKEGHMNPQEVEEPSACADTKILIQNLIK  
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CNDFP SHLECTSGSKEMASGDSSTEQFSSELQQCLQHTEKMHEYLTLLQDMKPPLDNQES  
LDNNLEALKNQRLQLET FELGLAPIAVILRKDMKLAEEFLKSLPSDFPRGHVEELSISHQ  
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IVNVQDSEYVKKRLEFLKNVLKDLGHTKMQLETTAFDVQFFISEYAQDLSPNQSKQLLRL  
LNTTQKCFLDVQESVTTQVERLETQLHLEQDLDDQKIVAERQQEYKEKLQGICDLLTQTE  
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QYEQLTAAGQGILSRPGEDPSLRGIVKEQLAAVTQKWDSL TGQLSDRCDWIDQAIVKSTQ  
YQSLLRSLSDKLSDLNKLSSSLAVSTHPDAMNQLETAQKMKQEIQQEKKQIKVAQALC  
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WLDTKKEEQNKSHPI SAKLDVLESLIKDHKDFSKTLTAQSHMYEKTIAEGENLLLKTQGS  
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IKFCLDPAEGENSIAKLKSLQKEMDQHFQGMVELLNNTANSLLSVCEIDKEVVTDENKSLI  
QKQVDMTEQLHKKFCLENMTQKFKEFEVSKESKRQLQCAKEQLDIHDSLGSQAYSNKY  
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EKCSFLETKLQGIHFQNTIREMFSQFAEFDELDSDMAPVGRDAETLQKQKETIKAFLKK  
LEALMASNDNANKCKMMLATEETSPDLVGIKRDLEALSKQCNKLLDRAQAREEQVEGTI  
KRLEEFYSKLKEFSILLQKAEHEESQGPVGMETETINQQLNMFQVFQKEEIEPLQGKQQ  
DVNWLGQGLIQSAAKSTSTQGLEHDLDDVNARWKTNLNKKVAQRAAQLQEALLHCGRFQDA  
LESLLSWMVDTEELVANQKPPSAEFKVVKAQIQEQKLLQRLDDRKSTVEVIKREGEKIA  
TTAEPADKVKILKQLSLLDSRWEALLNKAETRNRQLEGISVVAQQFHETLEPLNEWLTTI  
EKRLVNCEPIGTQASKLEEQIAQHKALEDDIINHNLHLHQAVSIGQSLKVLSSREDKDMV  
QSKLDFSQVWYIEIQEKSHSRSELLQQAALCNAKIFGEDEVELMNWLNVEHDKLSKLSVQD  
YSTEGLWKQQSELRVLQEDILLRKQNVQDQALLNGLELLKQTTGDEVLI IQDKLEAIKARY  
KDITKLSTDVAKTLEQALQLARRLHSTHEELCTWLDKVEVELLSYETQVLKGEEASQAQM  
RPKELKKEAKNNKALLDSLNEVSSALLELVPRAREGLEKMAEDNERYRLVSDTITQKV  
EEIDAAILRSQQFDQAADAELSWITETEKKLSLGDIRLEQDQTSACLQVQKTFTMEILR  
HKDIDDLVKSCHKIMTACSEEEKQSMKKKLDKVLKNYDTICQINSERYLQLERAQSLVN  
QFWETYEELWPWLTETQSIISQLPAPALEYETLRQQQEEHRQLRELIAEHKPHIDKMNKT  
GPQLLELSPGEGFSIQEKYVAADTLYSQIKEDVKKRAVALDEAISQSTQFHDKIDQILES  
LERIVERLRQPPSISAEVEKIKEQISENKNVSVDMEKLQPLYETLQKRGEEMIARSGGTD  
KDISAKAVQDKLDQMVFIWENIHTLVEEREAKLLDVMELAEKFWCDHMSLIVTIKDTQDF  
IRDLEDPGIDPSVVKQQQAAETIREEIDGLQEELDIVINLGSELIAACGEPDKPIVKKS  
IDELNSAWDSLNAWKDRIDKLEAMQAAVQYQDGLQAVFDWVDIAGGKLASMSPIGTDL  
ETVKQQIEELKQFKSEAYQQQIEMERLNHQAELLLKKVTEESDKHTVQDPLMELKLIWDS  
LEERIINRQHKLEGALLALGQFQHALDELLAWLTHTEGLLSEKQPVGGDPKAIEIELAKH  
HVLQNDVLAHQSTVEAVNKAGNDLIESSAGEEASNQNKLEVLNQRWQNVLEKTEQRKQQ  
LDGALRQAKGFHGEIEDLQQWLTDERHLLASKPLGGLPETAKEQLNVHMEVCAAFEAKE  
ETYSLSMQKGQMLARCPKSAETNIDQDINNLEKKEWESVETKLNKRTKLEEALNLAMEF  
HNSLQDFINWLTQAEQTLNVA SRPSLILDTVLFQIDEHKVFANEVNSHREQI IELDKTGT  
HLKYFSQKQDVVL IKNLLISVQSRWEKVVRQLVERGRSLDDARKRAKQFHEAWSKLEWL  
EESEKSLDSELEIANDPDKIKTQLAQHKEFQKSLGAKHSVYDTTNRTRGSLKEKTSLADD  
NLKLDMLSELRDKWDITCGKSVERQNKLEEALLFSGQFTDALQALIDWLYRVEPQLAED  
QPVHGDIDLVMNLIDNHKAFQKELGKRTSSVQALKRSARELIEGSRDDSSWVKVQMELS  
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LIDQHKEFMKKLEEKRAELNKATTMGDTVLAICHPSITTIKHWITIIIRARFEEVLAWAK



QHQQRLASALAGLIAKQELLEALLAWLQWAETTLTDKKEVIPQEIEEVKALIAEHQTFM  
EEMTRKQPDVDKVTYKRRADPSSLQSHIPVLDKGRAGRKRFPASSLYPSGSQTQIET  
KNPRVNLLVSKWQVWLLALERRRKLNDALDRLEELREFANFDFDIWRKKYMRWMNHKKS  
RVMDFFRRIDKDQDGKITRQEFIDGILSSKFPTSRLMSAVADIFDRDGDGYIDYEFVA  
ALHPNKDAYKPITDADKIEDEVTRQVAKCKCAKRFQVEQIGDNKYRFFLGNQFGDSQQLR  
LVRIILRSTVMVRVGGGWMALDEFLVKNDPCRVHHHGSKMLRSESNSSITTTQPTIAKGRT  
NMELREKFILADGASQMAAFRPRGRSRPSSRGASPNRSTSVSSQAAQAASPQVPATTT  
PKGTPIQGSKLRLPGYLSGKGFHSGEDSGLITTAARVRTQFADSKKTPSRPGSRAGSKA  
GSRASSRRGSDASDFDISEIQSVCSDEVTPQTHRPTPRAGSRPSTAKPSKIPTPQRKSP  
ASKLDKSSKR

>sp|000716|E2F3\_HUMAN Transcription factor E2F3 OS=Homo sapiens GN=E2F3 PE=1 SV=1

MRKGIQPALEYLVTAGGGEGAAVVAAAAAASMDKRALLASPGFAAAAAAAPGAYIQI  
LTTNTSTTSCSSSLQSGAVAAGPLPSAPGAEQTAGSLLYTTPHGPSSRAGLLQPPALG  
RGGSGGGGPPAKRRLELGESGHQYLSGLKTPKGKRAALRSPDSPKTPKSPSEKTRYD  
TSLGLLTKKFIQLLSQSPDGVLDLNKAAEVLKVQKRRIYDITNVLEGIHLIKKSKNNVQ  
WMGCSLSEDGGMALQCCQLSKEVTELSQEEKKLDELIQSCTLDLKLLEDSENQRLAYVT  
YQDIRKISGLKDQTVIVVKAPPETRLEVPSIESLQIHLASTQGPIEVYLCPEETETHSP  
MKTNNQDHNGNIPKASKDLASTNSGHSDCSVSMGNLSPLASPANLLQQTEDQIPSNLEG  
PFVNLLPPLLQEDYLLSLGEEEGISDLFDAYDLEKLPLVEDFMCS

>sp|Q16254|E2F4\_HUMAN Transcription factor E2F4 OS=Homo sapiens GN=E2F4 PE=1 SV=2

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ITNVLEGIGLIEKKSNSIQWKGVGPCNTREIADKLIELKAEIEELQQREQELDQHKVW  
VQQSIRNVTEDEVQNSCLAYVTHEDICRCFAGDTLLAIRAPSGTSLEVPIPEGLNGQKKYQ  
IHLKSVS GPIEVLLVNKEAWSSPPVAVPVPPPEDLLQSPSAVSTPPPLPKPALAQSQEAS  
RPNSPQLTPTAVPGSAEVQGMAGPAAEITVSGGPGTDSKDSGELSSLPLGPTTLDTRPLQ  
SSALLDSSSSSSSSSSSSNSNSSSSSGPNPSTSFEPKADPTGVLELPKELSEIFDPTR  
ECMSSELLEELMSSEVFAPLLRLSPPPGDHDIYINLDESEGVCDLFDVPVLNL

>sp|Q9NTX5|ECHD1\_HUMAN Ethylmalonyl-CoA decarboxylase OS=Homo sapiens GN=ECHDC1 PE=1 SV=2

MALKQEMAKSLLKTASLSGRTKLLHQGLSLYSTSHGFYEEVKKTLQQFPGGSIDLQKE  
DNGIGILTNNPSRMNAFSGVMMLQLEKVIENWTEGKGLIVRGAKNTFSSGSDLNAV  
KSLGTPEDGMAVCMFMQNTLTRFMRLPLISVALVQGWALGGGAFTTACDFRLMTPESKI  
RFVHKMGIIPSWGGTTRLVEIIGSRQALKVLSGALKLDSKNALNIGMVEEVLQSSDETK  
SLEEAQEWLQKFIQGPPEVIRALKKSVCSGRELYLEEALQNERDLLGTWGGPANLEAIA  
KKGKFNK

>sp|Q19T08|ECSCR\_HUMAN Endothelial cell-specific chemotaxis regulator OS=Homo sapiens  
GN=ECSCR PE=1 SV=1

MGTAGAMQLCWVILGFLLFRGHNSQPTMTQTSSSQGGLGGLSLTTEPVSSNPGYIPSEA  
NRPSHLSSTGTPGAGVPSSGRDGGTSRDTFQTVPPNSTTMSLMREDATILPSPTSETVL  
TVAAFGVISFIVILVVVVIILVGVVSLRFKCRKSKESEDPQKPGSSGLESSESTANGEKD  
SITLISMKNINMNNKGQSLSAEKVL

>sp|Q9BV94|EDEM2\_HUMAN ER degradation-enhancing alpha-mannosidase-like protein 2 OS=Homo  
sapiens GN=EDEM2 PE=1 SV=2

MPFRLLIPLGLLCALLPQHHGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDEL  
RPLTCDGHDTWGSFSLTLIDALDTLLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNI

RVVGGLLSAHLSSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPAFQTPTGMPYGTVNLLH  
GVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRLWESRSDIGLVGNHID  
VLTGKWAQDAGIGAGVDSYFEYL VKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLWV  
QMYKGTVSMPVFSLEAYWPGLQSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNI PQGYT  
VEKREGYPLRPELIESAMYLYRATGDPTLLELGRDAVESIEKISKVECGFATIKDLRDHK  
LDNRMESFFLAETVKYLYLLFDPTNFIHNNGSTFDAVITPYGECILGAGGYIFNTEAHP  
DPAALHCCQRLKEEQWEVEDLMREFYSLKRSRSKFQKNTVSSGPWEPPARPGTLFSPENH  
DQARERKPAKQKVPLLSCPSQPFTSKLALLGQVFLDSS

>sp|P20800|EDN2\_HUMAN Endothelin-2 OS=Homo sapiens GN=EDN2 PE=1 SV=2

MVSVPTTWCSVALALLVALHEGKGQAATLEQPASSSHAQGTHLRLRRCSCSSWLDKECV  
YFCHLDIIWVNTPEQTAPYGLGNPPRRRRRSLPRRCQCSSARDPACATFCLRRPWTEAGA  
VPSRKSADVFQTGTGATTGELLQRLRDISTVKS LFAKRQEQAMREPRSTHSRWRKR

>sp|Q15075|EEA1\_HUMAN Early endosome antigen 1 OS=Homo sapiens GN=EEA1 PE=1 SV=2

MLRRILQRTPGRVSGSGSDLDSSATPINTVDVNNESSSEGFICPQCMKSLGSADELFKHY  
EAVHDAGNDSGHGGSNLALKRDDVTLLRQEVQDLQASLKEEKWYSEELKKELEKYQGLQ  
QQEAKPDGLVTDSSAELQSLEQQLEEAQTENFNIKQMKDLFEQKAAQLATEIADIKSKYD  
EERSLREAAEQKVTRLTEELNKEATVIQDLKTELLQRPGIEDVAVLKKELVQVQTLMDNM  
TLERERESEKLKDECKKLQSQYASSEATISQLRSELAKGPQEVAVYVQELQKLKSSVNEL  
TQKNQTLTENLLKKEQDYTKLEEKHNEESVSKKNIQATLHQKDLDCQQLQSRLSASETSL  
HRIHVELSEKGEATQKLKEELSEVETKYQHLKAEFKQLQQQREEKEQHGLQLQSEINQLH  
SKLLETERRQLGEAHGRLKEQRQLSSEKLMDEKQVADLQLKLSRLEEQLKEKVTNSTELQ  
HQLDKTKQQHQEQALQQSTTAKLREAQNDLEQVLRQIGDKDQKIQNLEALLQSKSENTS  
LLEKEREDLYAKIQAGEGETAVLNQLQEKNH TLQEQTQLTEKLNQSESHKQAQENLHD  
QVQEQAHLRAAQDRVLSLETSVNELNSQLNESKEKVSQLDIQIKAKTELLLSAEAAKTA  
QRADLQNHLDTAQNALQDKQQELNKITTLQDQVTAKLQDKQEHCSQLESHLKEYKEKYL  
LEQKTEELEGGQIKKLEADSLEVKASKEQALQDLQQQRQLNTDLELRATELSKQLEMEKEI  
VSSTRLDLQKKSEALESIKQKLTKQEEKKILKQDFETLSQETKIQHEELNNRIQTTVTE  
LQKVMEKEALMTELSTVKDKLSKVSDSLKNSKSEFEKENQKGKAAILDLEKTCKELKHQ  
LQVQMENTLKEQKELKKSLEKEKEASHQLKLELNSMQEQLIQAQNTLKQNEKEEQQLQGN  
INELKQSSEQKKKQIEALQGELKIAVLQKTELENKLQQQLTQAAQELAAEKEKISVLQNN  
YEKSQETFKQLQSDFYGRESELLATRQDLKSVEEKLSLAQEDLISNRNQIGNQNKLIQEL  
KTAKATLEQDSAKKEQQLQERCKALQDIQKEKSLKEKELVNEKSKLAEIEEIKCRQEKEI  
TKLNEELKSHKLESIKEITNLKDAKQLLIQKLELQGKADSLKAAVEQEKNQQILKDQV  
KKEEELKKEFIEKEAKLHSEIKEKEVGMKKHEENEAKLTMQITALNENLGTVKKEWQSS  
QRRVSELEKQTDDLGEI AVL EATVQNNQDERRALLERCLKGEGEIEKLQTKVLELQRKL  
DNTTAAVQELGRENQSLQIKHTQALNRKWAEDNEVQNCMACGKGF SVTVRRHHCRCGNI  
FCAECSAKNALTPSSKKPVRVCDACFNDLQG

>sp|P68104|EF1A1\_HUMAN Elongation factor 1-alpha 1 OS=Homo sapiens GN=EEF1A1 PE=1 SV=1

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVL  
DKLKAERERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGV  
GEFEAGISKNGQTREHALLAYTLGVKQLIVGVNKM DSTEPYPYSQKRYEEIVKEVSTYIKK  
IGYNPDTVAFVPISGWNGDNMLEPSANMPWFGWKVTRKDGNASGTTLEALDCILPPTR  
PTDKPLRLPLQDVYKIGGIGTVPVGRVETGV LKPGMVVTFAPVNVTTVEKSVEMHHEALS  
EALPGDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMEAAGFTAQVIILNHPGQISAGYAPV

LDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPP  
LGRFAVRDMRQTVAVGVIAVDKKAAGAGKVTSAQAQKAK

>sp|Q5VTE0|EF1A3\_HUMAN Putative elongation factor 1-alpha-like 3 OS=Homo sapiens  
GN=EEF1A1P5 PE=5 SV=1

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVL  
DKLKAERERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGV  
GEFEAGISKNGQTREHALLAYTLGVKQLIVGVNKMSTEPYPYSQKRYEEIVKEVSTYIKK  
IGYNPDTVAFVPISGWNGDNMLEPSANMPWFKGWKVTBKDGNASGTTLEALDCILPPTR  
PTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLPKGMVVTFAFVNVTTVEKSVEMHHEALS  
EALPGDNVGFVKVNSVKDVRNGNVAGDSKNDPPMEAAGFTAQVILNHPGQISAGYAPV  
LDCHMAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPP  
LGRFAVRDMRQTVAVGVIAVDKKAAGAGKVTSAQAQKAK

>sp|P60507|EFC1\_HUMAN Endogenous retrovirus group FC1 Env polyprotein OS=Homo sapiens  
GN=ERVFC1 PE=1 SV=1

MARSPCLLLLLTLLTPIVPSNLLTEPPFRWRFYLHETWTQGNRLSTVTLATVDCQPH  
GCQAQVTFNFTSFKSVLRGWSNPTICFVYDQTHSNCRDYWVDNNGGCPYAYCRMHVTLH  
TAKKLQHTYRLTSDGRTTYFLTIPDPWDSRWVSGVTGRLYRWPTDSYPVGKLRIFLTYIR  
VIPQVLSNLKDQADNIKHQEEVINTLVQSHPKADMVYDDKAEAGPFSWITLVRHGARLV  
NMAGLVNLSHCFLCTALSQPPLVAVPLPQAFNTSGNHTAHPSGVFSEQVPLFRDPLQPQF  
PFCYTPNSSWCNQTYSGSLSNLSAPAGGYFWCNFTLTKHLNISSNNTLSRNLCPLISLV  
PRLTYSEAESSLNPPMRQKRAVFPPLVIGVSLTSSLVASGLGTGAIVHFISSSQDLS  
IKLQMAIEASAESLASLQRQITSVAKVAMQNRALDLLTADKGGTCMFLGEECCYYINES  
GLVETSLLTLDKIRDGLHRPSSTPNYGGGWWQSPLTTWIIIPFISPIILICLLLLIAPCVL  
KFIKNRISEVSRVTVNQMLLHPYSRLPTSEDHYDDALTQQEAAAR

>sp|Q8N4Y2|EFC4A\_HUMAN EF-hand calcium-binding domain-containing protein 4A OS=Homo sapiens  
GN=CRACR2B PE=1 SV=3

MASPGKPGADEAQEEEGELEGGAGPRAAILEQAEELFLLCDKEAKGFITKHDLQGLQSD  
LPLTPEQLEAVFESLDRAHTGFLTAREFCLGLGMFVGVASAQGANPCRTPEETFESGGLD  
VQGTAGSLDEEEEEERFHTVLEQLGVAPVLGKQRAVRTLWARLQRRPELLGSFEDVLI  
RASACLEEAARERDGLEQALRRRESEHEREVRLYEETEQLREQSRRPPSQNFARGERS  
RLELELQSREQDLERAGLRQRELEQLHAQAAEHLEAQAQNSQLWRAHEALRTQLEGAQE  
QIRRESEARGREQTQRDVVAVSRLNMKEKVSLLRQLELLRELNTRLRDDRDACEARRA  
GSSCRKALTARLPPTCCCCCWAPPPRRSGHLPSAR

>sp|Q8NBQ5|DHB11\_HUMAN Estradiol 17-beta-dehydrogenase 11 OS=Homo sapiens GN=HSD17B11  
PE=1 SV=3

MKFLLDILLLLPLLIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFAKLK  
SKLVLDINKHGLEETAACKCKGLGAKVHTFVVDCSNREDIYSSAKKVKAIEIGDVSILVNN  
AGVYVTSDFATQDPQIEKTFEVNVLAHFWTTKAFLPAMTKNNHGHIVTVASAAGHVSVP  
FLLAYCSSKFAAVGFHKLTDELAALQITGVKTTCLCPNFVNTGFIKNPSTSLGPTLEPE  
EVVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAVLKQKISVKFDAVIGYKMAQ

>sp|O43323|DHH\_HUMAN Desert hedgehog protein OS=Homo sapiens GN=DHH PE=1 SV=1

MALLTNLLPLCCLALLALPAQSCGPGRGPVGRRRYARKQLVPLLYKQFVPGVPERTLGAS  
GPAEGRVARGSERFRDLVPNYPDIIFKDEENSGADRLMTERCKERVNALAIAMNMWPG  
VRLRVTEGWDEDGHHQAQDSLHYEGRALDITSDRDRNKYGLLARLAVEAGFDWVYYESRN

HVHVSVKADNSLAVRAGGCFPGNATVRLWSGERKGLRELHRGDWVLAADASGRVVPVPL  
LFLDRDLQRRASFVAVETEWPPRKL L LTPWHLVFAARGPAPAPGDFAPVFARRLRAGDSV  
LAPGGDALRPARVARVAREEAVGVFAPLTAHGTLLVNDVLASCYAVLESHQWAHRAFAPL  
RL LHALGALLPGGAVQPTGMHWYSRLLYRLAEELLG

>sp|P09417|DHPR\_HUMAN Dihydropteridine reductase OS=Homo sapiens GN=QDPR PE=1 SV=2

MAAAAAAGEARRVLVYGGRGALGSRVCVQAFRARNWWWASVDVVENEEASASIIVKMTDSF  
TEQADQVTAEVGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQSIWTSTISSH  
LATKHLKEGGLLTLGAKAALDGTGPMIGYMAKGAVHQLCQSLAGKNSGMPPGAAAI AV  
LPVTLDTPMNRKSMPEADFSSWTPLEFLVETFDWITGKNRPSSGSLIQVVTTEGRTELT  
PAYF

>sp|A0PJE2|DHR12\_HUMAN Dehydrogenase/reductase SDR family member 12 OS=Homo sapiens  
GN=DHRS12 PE=2 SV=2

MSLYRSVVWFAKGLREYTKSGYESACKDFVPHDLEVQIPGRVFLVTGGNSGIGKATALEI  
AKRGGTVHLVCRDQAPAEDARGEI IRESGNQNI FLHIVDLSDPKQIWKFVENFKQEHLH  
VLINNAGCMVNKRELTEDGLEKNFAANTLGVIYILTTGLIPVLEKEHDP R VITVSSGGMLV  
QKLNTNDLQSERTPF DGTMVYAQNKRQQVVLTERWAQGHPAIHFSSMHPGWADTPGVRQA  
MPGFHARFGDRLRSEAQGADTMLWLALSSAAAAQPSGRFFQDRKPVSTHLPLATASSSPA  
EEEKLEILEQLAQTFK

>sp|O75911|DHRS3\_HUMAN Short-chain dehydrogenase/reductase 3 OS=Homo sapiens GN=DHRS3  
PE=1 SV=2

MVWKRLGALVMFPLQMIYLVKAAVGLVLP AKLRDLSRENVLITGGGRGIGRQLAREFAE  
RGARKIVLWGRTECLKETTEEIRQMGTECHYFICDVGNREEVYQTAKAVREKVG DITIL  
VNNAAVVHGKSLMDSDDALLKSHINTLGQFWTTKAFLPRMELQNGHIVCLNSVLALS  
AIPGAIDYCTSKASAFAMESLTLGLDCPGVSATTVLPFHTSTEMFQGMVRVFPNLFPP  
LKPETVARRTVEAVQLNQALLLPWTMHALVILKSILPQAAL E EIHKFSGTYTCMNTFKG  
RT

>sp|Q9Y394|DHRS7\_HUMAN Dehydrogenase/reductase SDR family member 7 OS=Homo sapiens  
GN=DHRS7 PE=1 SV=1

MNWE LLLWLLVLCALLLLLVQLLRFLRADGDLTLLWAEWQGRPEWELTDMVVVWTGASS  
GIGEELAYQLSKLGVSLVLSARRVHEL ERVKRRCL ENGLKEKDILVLPDLTDTGSHEA  
ATKAVLQEFGRIDILVNNGMSQRSLCMDTSLDVYRKLIELNYLGTVSLTKCVLPHMIER  
KQGIIVTVNSILGIISVPLSIGYKASHALRGFFNGLRTELATYPGIIVSNICPGPVQSN  
IVENSLAGEVTKTIGNNGDQSHKMTTSRCVRLMLISMANDLKEVWISEQPFLLVTYLWQY  
MPTWAWWITNKMGGKRIENFKSGVDADSSYFKIFKTKHD

>sp|Q8N5I4|DHRSX\_HUMAN Dehydrogenase/reductase SDR family member on chromosome X OS=Homo  
sapiens GN=DHRSX PE=2 SV=2

MSPLSAAARAALRVYAVGA AVILAQLLRRCRGGFLEPVFP R PDRVAIVTGGTDGIGYSTA  
KHLARLGMHVI IAGNNSKAKQVVS KIKEETLNDKVEFLYCDLASMTSIRQFVQKFKMKK  
IPLHVLINNAGVMMPQRKTRDGFEEHFG LNYLGHFLLTNLLD TLKESGSPGHSARVVT  
VSSATHYVAELNMDDLQSSACYS PHAAYAQSKLALVLF TYHLQRLLAAEGSHVTANVVD P  
GVVNTDVYKHVFWATRLAKKLLGWLLFKTPDEGAWTSIYAAVTPELEGVGGHYLYNEKET  
KSLHVTYNQKLQQQLWSKSCMTGVLDVTL

>sp|O14521|DHSD\_HUMAN Succinate dehydrogenase [ubiquinone] cytochrome b small subunit,  
mitochondrial OS=Homo sapiens GN=SDHD PE=1 SV=1

MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFLLQDRPIPEWCGVQHIHLSPSHHSGSK  
AASLHWTSEVVSVLLLGLLPAAAYLNPCSAMDYSLAAALTLHGHWGLGQVVTDYVHGDAL  
QKAAKAGLLALSALTFAGLCYFNYHDVGICKAVAMLWKL

>sp|Q9UKB3|DJC12\_HUMAN DnaJ homolog subfamily C member 12 OS=Homo sapiens GN=DNAJC12 PE=1  
SV=1

MDAILNYRSEDTEYYTLLGCDELSSVEQILAEFKVRALECHPDKHPENPKAVETFQKLQ  
KAKEILTNEESRARYDHWRSSQMSMPFQQWEALNDSVKTSMHWVVRGKKDLMEESDKTH  
TTKMENEECNEQREKKEELASTAEKTEQKEPKPLEKSVSPQNSDSSGFADVNGWHLRFR  
WSKDAPSELLRKFRNYEI

>sp|Q9Y5T4|DJC15\_HUMAN DnaJ homolog subfamily C member 15 OS=Homo sapiens GN=DNAJC15 PE=1  
SV=2

MAARGVIAPVGESLRYAEYLQPSAKRPDADVDQQLVRSLIAVGLGVAALAFAGRYAFRI  
WKPLEQVITETAKKISTPSFSSYYKGGFEQKMSRREAGLILGVSPSAGKAKIRTAHRRVM  
ILNHPDKGGSPYAAKINEAKDLLETTTKH

>sp|Q9UBT3|DKK4\_HUMAN Dickkopf-related protein 4 OS=Homo sapiens GN=DKK4 PE=1 SV=1

MVAAVLLGLSWLCSPLGALVLDNFNIRSSADLHGARKGSQCLSDTDCNTRKFCLQPRDEK  
PFCATCRGLRRRCQRDAMCCPGTLCVNDVCTMEDATPILERQLDEQDGTAEGETTGHPV  
QENQPKRKPSIKKSQGRKGQEGESCLRTFDCGPGGCCARHFWTKICKPVVLEGGVCSRRG  
HKDTAQAPEIFQRCDGPGLLCRSQTLSNRQHARLRVCQKIEKL

>sp|Q8TDM6|DLG5\_HUMAN Disks large homolog 5 OS=Homo sapiens GN=DLG5 PE=1 SV=4

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LAKERDHFQDLRAAEKTQPHLLPILYLNGVVGPPQPAEGAGSTYSVLSTMPDSESSSS  
LSSVGTGKAPSPPLLTQQVNEKVENLSIQLRLMTRERNELRKRLAFATHGTAFDKRP  
YHRLNPDYERLKIQCVRAMSDLQSLQNQHTNALKRCEEVAKETDFYHTLHSRLSDQTRL  
KDDVDMRLRENGQLLRERNLLQSWEDMKRLHEEDQKEIGDLRAQQQVLKHNGSSEILN  
KLYDTAMDKLEVVKDYDALRKRYSEKVAIHNA DL SRLEQLGEENQRLLKQTEMLTQQRD  
TAIQLQHQCALSRLRFEAIHHELNKATAQNKDLQWEMELLQSELTELRTTQVKTAKESEK  
YREERDAVYSEYKLIMSERDQVISELDKLQTEVELAESKLKSTSEKKAANEEMEALRQI  
KDTVTMDAGRANKEVEILRKQCKALCQELKEALQEADVAKCRDWFQERDKIVAERDSI  
RTLCDNLRRERDRAVSELAELRSLDDTRKQKNDVSRELKELKEQMESQLEKEARFRQLM  
AHSSHDSAIDTDSMEWETEVEFERETEDIDLKALGFDMAEGVNEPCFPGDCGIFVTKVD  
KGSIA DGR LR V NDWLLRINDVDL INKDKKQA I KALLNGEGAINMVVRRRKS LGGKVVTPL  
HINLSGQKDSGISLENGVYAAAVLPGSPA AKEGSLAVGDRIVAINGIALDNKSLNECESL  
LRSCQDSLTL SLLKVFQSSSWGQNIFENIKDSKMLS FRAHGPEVQAHNKRNL IQHNN  
STQTDIFYTDRLDRKEPGPPGGSSSFLHKPFPGGPLQVCPQACPSASERSLSSFRSDAS  
GDRGFLVDVRGRRPLLPFETEVGPCVGEASLDKADSEGSNSGGTWPKAMLSSTAVPEK  
LSVYKKPKQRKSI F DPNTFKRPQTTPPKIDYLLPGPGAHSPPQPSKRAGPLTPPKPPRRSD  
SIKFQHRLETSSSEATLVGSSPSTSPPSALPPDVPGEPMHASPPRKARVRIASSYYPE  
GDGSSHLPAKKSCDEDLTSQKVDELGQRRRPPKSAPSFPRKLPVVI PAQFLEEQKCV  
ASGELSPELQEWAPYSPGHSSRHSNPPLYSRPSVGTVP RSLTPSTTVSSILRNPIYTVR  
SHRVGPCSSPPAARDAGPQGLHPSVQHQRSLDL SHRTCSDYSEMRATHGSNSLPSSAR  
LGSSSNLQFKAERIKIPSTPRYPRSVVGSERGSVSHSECTPPQSPLNIDTLSSCSQSQT  
SASTLPRIAVNPASLGERRKDRPYVEEPRHVKVQKGSEPLGISIVSGEKGGIYVSKVTVG  
SIAHQAGLEYGDQLLEFNGINLRSATEQQARLIIGQQCDTITILAQYNPHVHQLSSHSRS

SSHLDPAGTHSTLQSGSTTTPEHPSVIDPLMEQDEGPSTPPAKQSSSRIAGDANKKTLEP  
RVVFIKKSQLELGVHLCCGNLHGVFAEVEDDSPAKGPDGLVPGDLILEYGS LDVRNKT  
EEVYVEMLKPRDGVRLKVQYRPEEFTKAKGLPGDSFYIRALYDRLADVEQELSFKKDDIL  
YVDDTLPGGTFGSWMWQLDENAQKIQRGQIPSKYVMDQEFSSRLSMSEVKDDNSATKTL  
SAAARRSFFRRKHKHKRSGSKDGKDLLALDAFSSDSIPLFEDSVSLAYQRVQKVDCTALR  
PVLILGPLLDVVKEMLVNEAPGKFCRCPLEVMKASQQAIERGVKDCLFVDYKRRSGHFDV  
TTVASIKEITEKNRHCLLDIAPHAIERLHHMHYPIVIFIHYKSAKHIKEQRDPIYLRDK  
VTQRHSKEQFEAAQKLEQEYSRYFTGVIQGGALSSICTQILAMVNQEQNKVLWIPACPL

>sp|Q86YH6|DLP1\_HUMAN Decaprenyl-diphosphate synthase subunit 2 OS=Homo sapiens GN=PDSS2  
PE=1 SV=2

MNFRQLLLHLPRYLGASGSPRRLWWSPSLDTISSVGSWRGRSSKSPAHWNVVSEAEKIV  
GYPTSFMSLRCLLSELSNIAMQVRKLVGTQHPLLTARGLVHDSWNSLQLRGLVLLIS  
KAAGPSSVNTSCQNYDMVSGIYSCQSRSLAEITELIHIALLVHRGIVNLNELQSSDGPLKD  
MQFGNKIAILSGDFLLANACNGLALLQNTKVVELLASALMDLVQGVYHENSTSKESYITD  
DIGISTWKEQTFLSHGALLAKSCQAAMELAKHDAEVQNMAFQYGKHMAMSHKINS DVQPF  
IKEKTSDSMTFNLNSAPVVLHQEFLGRDLWIKIGEAQEKGRLDYAKLRERIKAGKGVTS  
AIDLCRYHGNKALEALESFPPSEARSALENIVFAVTRFS

>sp|Q9NP97|DLRB1\_HUMAN Dynein light chain roadblock-type 1 OS=Homo sapiens GN=DYNLRB1  
PE=1 SV=3

MAVEETLKRLLQSQKGVQGIIVNTEGIPIKSTMDNPTTTQYASLMHSFILKARSTVRDI  
DPQNDLTLRIRSKKNEIMVAPDKDYFLIVIQNPTE

>sp|Q6PK57|DMP34\_HUMAN Putative GED domain-containing protein DNM1P34 OS=Homo sapiens  
GN=DNM1P34 PE=5 SV=1

MPSCSPQQASKAEENGSSFMHSMVPQLEWQMETTQSLVDSYVAIVNKTVDLMVGLTPK  
TIMHLMINNNKEFIFSELLANLYLHGDKNMLMEESAQAQRS

>sp|Q9Y5R5|DMRT2\_HUMAN Doublesex- and mab-3-related transcription factor 2 OS=Homo  
sapiens GN=DMRT2 PE=2 SV=2

MADPQAGSAAGDWEIDVESLEEDVCGAPRSTPPGPSPPPADGDCEDEDDDGVEDAE  
EEGDGEEAGASPGMPGQPEQRGGPQPRPPLAPQASPAGTGPRERCTPAGGGAEPKLSRT  
PKCARCRNHGVVSLKGHKRFCRWRDCQCANCLLVVERQVRMAAVALRRQQATEDKKGL  
SGKQNNFERKAVYQRQVRAPSLAKSILEGYRPIPAETYVGGTFPLPPPVS DRMRKRRAF  
ADKELENIMLEREYKEREMLETSQAAALFLPNRMVPGPDYNSYKSAYSPSPVEPPSKDFC  
NFLPTCLDLTMQYSGSGNMELISSNVSVATTYRQYPLSSRFLVWPKCGPISDTLLYQQCL  
LNATTSVQALKPGASWDLKGARVQDGLSAEQDMMPSKLEGSLVLPHTPEIQTTRSDLQGH  
QAVPERSAFSPRRNFSPIVDTSLAAQGHVLT KISKENTRHPLPLRHNPFHSLFQQTLT  
DKSGPELKTPFVKEAFEETPKKHRECLVKDNQKYTFTIDRCAKDLFVAKQVGTKLSVNEP  
LSFSVESILKRPSAITRVSQ

>sp|Q8IXT2|DMRTD\_HUMAN Doublesex- and mab-3-related transcription factor C2 OS=Homo  
sapiens GN=DMRTC2 PE=2 SV=2

MEPSDMPAGYHCPLDSAPWDETRDPQSTELIPRRAISRSPTCARCRNHGVTAHLKGHKRL  
CLFQACECHKCVLILERRRVMAAVALRRQQEAQLKKHLMRRGEASPKAPNHFRKGTTPQ  
QVPSGKENIAPQPQTPHGAVLLAPTPPGKNSCGPLLLSHPPEASPLSWTPVPPGPWVPGH  
WLPPGFSMPPPVVCRLLYQEPAVSLPPFPFGFDPGTSLQLPTHGFTTCPGSHPVLTAPLS  
GEPQGPPSQPRTHSTLILQPCGTPDPLQLQPQASGASCLARTSGPSEWQLQQEAAEALVG

LKDSSQAPRVTPSPNPNAWISLLHPCGPPAPAGGRGFQPVGPCLRSPAPSVALHIGRL  
GSISLLS

>sp|075937|DNJC8\_HUMAN DnaJ homolog subfamily C member 8 OS=Homo sapiens GN=DNAJC8 PE=1  
SV=2

MAAGESGTSGGGGSTEEAFMTFYSEVKQIEKRDSVLTSKNQIERLTRPGSSYFNLNPFE  
VLQIDPEVTDEEIKKRFRQLSILVHPDKNQDDADRAQKAFAVDKAYKLLLDQEQKKRAL  
DVIQAGKEYVEHTVKERKKQLKKEGKPTIVEEDDPELQAVYKQTMKLF AELEIKRKER  
EAKEMHERKRQREEEIEAQEKAKREREWQKNFEESRDGRVDSWRNFQANTKGKKEKKNRT  
FLRPPKVKMEQRE

>sp|P18858|DNLI1\_HUMAN DNA ligase 1 OS=Homo sapiens GN=LIG1 PE=1 SV=1

MQRSIMSFFHPKKEGKAKKPEKEASNSSRETEPPPKAALKEWNGVSES DSPVKRPGRKA  
ARVLGSEGEDEALSPAKGQKPAIDCSQVSPRPATSPENNASLSDTSPMDSSPSGIPK  
RRTARKQLPKRTIQEVLEEQSEDEDREAKRKKEEEEEETPKESL TEAEVATEKEGEDGDQ  
PTTPPKPLKTSKAETPTESVSEPEVATKQELQEEEEQTKPPRRAPKTLSSFFTPRKPAVK  
KEVKEEPEGAPGKEGAAEGPLDPSGYNPAKNYHPVEDACWKPGQKVPYLAVARTFEKIE  
EVSARLRMVETLSNLLRSVVALSPDDLPLVLYSLNHLGPPQQGLELGVGDGVLLKAVAQ  
ATGRQLESVRAEAAEKGDVGLVAENSRSTQRLMLPPPPLTASGVFSKFRDIARLTGSAST  
AKKIDI I KGLFVACRHSEARFIARSLGRLRLGLAEQSVLAALSQAVSLTPPGQEFPPAM  
VDAGKGKTAEARKTWLEEQGMILKQTFCEVPDLDRIPVLEHGLERLPEHCKLSPGIPL  
KPM LAHPTRGISEVLKRFEEAAFTCEYKYDGGRAQIHALEGGEVKIFSRNQEDNTGKYPD  
IISRIPKIKLPSVTSFILDTEAVAWDREKKQIQPFQVLTTRKRKEVDASEIQVQVCLYAF  
DLIYLNGESLVREPLSRRRQLLRENFVETEGEFVFATSLDTKDIEQIAEFLEQSVKDSCE  
GLMVKTLDDVATYIEIAKRSHNWLKLLKDYLDGVGDTLDLVVIGAYLGRGKRAGRYGGFLL  
ASYDEDSEELQAICKLGTGFSDEELEEHHQSLKALVLPSPRPYVRIDGAVIPDHWLDPSA  
VWEVKCADLSLSPIYPAARGLVDSDKGISLRFPRFIRVREDKQPEQATTS AQVACL YRKQ  
SQIQNQGGEDSGSDPEDTY

>sp|P49916|DNLI3\_HUMAN DNA ligase 3 OS=Homo sapiens GN=LIG3 PE=1 SV=2

MSLAFKIFFPQTLRALSRKELCLFRKHHWRDVRQFSQWSETDLLHGHPFLRRKPVLSFQ  
GSHLRSRATYLVFLPGLHVGLCSGPCEMAEQRFCDYAKRGTAGCKKCKEKIVKGVCRI  
KVVPNPFSESGDMKEWYHIKCMFEKLERARATTKKIEDLTELEGWEELEDNEKEQITQH  
IADLSSKAAGTPKKKAVVQAKLTTTGQVTSPVKGASFVTSTNPRKFSGFSAPNNSGEAP  
SSPTPKRSLSSSKCDPRHKDCLLREFRKLCAVADNPSYNTKTQIIQDFLRKGSAGDGFH  
GDVYLTVKLLLPGVIKTVYNLNDKQIVKLFSRIFNCNPDDMARDLEQGDVSETIRVFFEQ  
SKSFPPAAKSLTTIQEVDEFLLRLSKLTKEDEQQALQDIASRCTANDLKCIIRLIKHD  
KMNSGAKHVLDALDPNAYEAFKASRNLDVVERVLHNAQEVEKEPGQRRALSVQASLMTP  
VQPM LAEACKSVEYAMKKCPNGMFSEIKYDGERVQVHKNGDHFSYFSRSLKPVLPHKVAH  
FKDYIPQAFPGGHSMLDSEVLLIDNKTGKPLPFGTLGVHKKAAFQDANVCLFVFDCTYF  
NDVSLMDRPLCERRKFLHDNMVEIPNRIMFSEMKRVTKALDLADMITRVIQEGLEGLVLK  
DVKGTYEPGKRHWLVKKDYLN EGAMADTADLVVLGAFYGGGSKGGMMSIFLMGCYDPGS  
QKWCTVTKCAGGHDDATLARLQNELDMVKISKDPSKIPSWLVKNKIYYPDFIVDPKAA  
VWEITGAEFSKSEAHTADGISIRFPRCTRIRDDKDWSATNLPQLKELYQLSKEKADFTV  
VAGDEGSSTTGSSEENKGPSGSAVSRKAPSKPSASTKKAEGKLSNSNSKDGNMQTAKPS  
AMKVGELATKSSPVKVG EKRAADETLCQTKVLLDIFTGVRLYLPPSTPDFSRLRRYFV  
AFDGDVLVQEFDMTSATHVLGSRDKNPAAQQVSEWIWACIRKRLVAPC

>sp|Q5SXM8|DNLZ\_HUMAN DNL-type zinc finger protein OS=Homo sapiens GN=DNLZ PE=1 SV=1

MLRTALRGAPRLLSRVQPRAPCLRRLWGRGARPEVAGRRRAWAWGWRSSSEQGPGPAAA  
LGRVEAAHYQLVYTCKVCGTRSSKRISKLAYHQGVVIVTCPGCQNHIIADNLGWFSDLN  
GKRNIEEILTARGEQVHRVAGEGALELVLEAAGAPTSTAAPAGEDEGPPSPGKTEPS

>sp|Q9UBC3|DNM3B\_HUMAN DNA (cytosine-5)-methyltransferase 3B OS=Homo sapiens GN=DNMT3B  
PE=1 SV=1

MKGDTRHLNGEEDAGGREDSSILVNGACSDQSSDSPPILEAIRTPAIRGRRSSSRLSKREV  
SSLLSYTQDLTGDGDGEDGDGSDTPVMPKLFRETRTRSESPAVRTRNNNSVSSRERHRPS  
PRSTRGRQGRNHVDESPVEFPATRSRLRRRATASAGTPWPSPPSSYLTIDLTDDTEDTHGT  
PQSSSTPYARLAQDSQQGMESPQVEADSGDGSSEYQDGKEFGIGDLVWGKIKGFSWWP  
AMVVSWKATSKRQAMSGMRVWQWFGDGKFSEVSADKLVALGLFSQHFNLATFNKLVSYRK  
AMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLEWAHGGFKPTGIEGLKPNNTQPVVNKS  
KVRRAGSRKLESRKYENKTRRRATADSATSDYCPAPKRLKTCYNNGKDRGEDQSRQEQM  
ASDVANNKSSLEDGCLSCGRKNPVSFHPLFEGGLCQTCRDRFLELFYMYDDDGYSYCTV  
CCEGRELLCSNTSCRCFCVECLEVLVGTGTAAEAKLQEPWSCYMCLPQRCHGVLRRRK  
DWNVRLQAFFTSDTGLEYEAPKLYPAIPAARRRPIRVLSLFDGIATGYLVLKELGIKVGK  
YVASEVCEESIAGTVKHGNIKYVNDVRNITKKNIEEWGPFDLVIGGSPCNDLSNVNPA  
RKGLYEGTGRLFFEFYHLLNYSRPKEGDDRPFFWMFENVVAMKVGDKRDISRFLECNPVM  
IDAIKVSAAHRARYFWGNLPGMNRPVIASKNDKLELQDCLEYNRIAKLKKVQTITTKSNS  
IKQGNQLFPVVMNGKEDVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIR  
HLFAPLKDYFACE

>sp|Q8NEU8|DP13B\_HUMAN DCC-interacting protein 13-beta OS=Homo sapiens GN=APPL2 PE=1 SV=3

MPAVDKLLLEEALQDSPQTRSLLSVFEEDAGTLTDYTNQLLQAMQRVYGAQNEMCLATQQ  
LSKQLLAYEKQNFALGKGDEEVISTLHYFSKVVDENLLHTELAKQLADTMVLPPIIQFRE  
KDLTEVSTLKDFLGLASNEHDLMAKYSRLPKKKENKVKTEVGKEVAAARRKQHLSSLQ  
YYCALNALQYRKQAMMEPMIGFAHQINFFKKGAEMFSKRMDSFLSSVADMVQSIQVEL  
EAEAEKMRVSQQELLSVDESUYTPDSVAAPQINRNLIQKAGYLNLRNKTGLVTTTWERL  
YFFTQGGNLMCQPRGAVAGGLIQDLDNCSVMAVDCEDRRYCFQITTPNGKSGIILQAESR  
KENEWICAINNISRQIYLTDNPEAVAIAKLNQTALQAVTPITSFGKKQESSCPSQNLKNS  
EMENENDKIVPKATASLPEAEELIAPGTPIQFDIVLPATEFLDQNRGSRRTNPFGETEDE  
SFPEAEDSLLQMFIVRFLGSMVAKTDSTTEVIYEAMRQVLAARAIHNIIFRMTESHLMT  
SQSLRLIDPQTQVSRANFELTSVTQFAAHQENKRLVGFVIRVPESTGEESLSTYIFESNS  
EGEKICYAINLGKEIEVQKDPEALAQMLSLPLTNDGKYVLLNDQPDDDDGNPNEHRGA  
ESEA

>sp|Q86TI2|DPP9\_HUMAN Dipeptidyl peptidase 9 OS=Homo sapiens GN=DPP9 PE=1 SV=3

MATTGTPTADRGDAATDDPAARFQVQKHSWDGLRSIIHGSRKYSGLIVNKAPHDFQFVQ  
KTDESGPHSHRLYYLGMPYGSRENSLLYSEIPKKVRKEALLLSWKQMLDHFQATPHHG  
YSREEELLRERKRLGVFGITSYDFHSEGLFLFQASNSLFHCRDGGKNGFMVSPMKPLEI  
KTQCSGPRMDPKICPADPAFFSFINNSDLWVANIETGEERRLTFCHQGLSNVLDDPKSAG  
VATFVIQEEFDRFTGYWWCPTASWEGSEGLKTLRILYEEVDESEVEIHVPSPALEERKT  
DSYRYPRTGSKNPKIALKLAEFQTDSSQGIIVSTQEKELVQPFSSLPKVEYIARAGWTRD  
GKYAWAMFLDRPQWLQLVLLPPALFIPSTENEEQRLASARAVPRNVQPYVVVEVTNVW  
INVHDIYFPFPQSEGEDELFLRANECKTGFCILYKVTAVLKSQGYDWSEPFSPGEDEFK  
CPIKEEIALTSGEWEVLARHGSKIWNNEETKLVIYFQGTKDTPLEHHLVVSYYEAGEIVR



LTPGFSHSCSMSQNFDMFVSHYSSVSTPPCVHVYKLSGPDDPLHKQPRFWASMMEEAAS  
CPPDYVPPEIFHFHTRSDVRLYGMIIKPHALQPGKKHPTVLFVYGGPQVQLVNNSFKGIK  
YLRNLTLASLGYAVVVIDGRGSCQRGLRFEGALKNQMGQVEIEDQVEGLQFVAEKYGFID  
LSRVAIHGWSYGGFLSLMGLIHKPQVFKVAIAGAPVTVMAYDTGYTERYMDVPENNQH  
YEAGSVALHVEKLPNEPNRLLILHGFLDENVHFFHTNFLVSQLIRAGKPYQLQIYPNERH  
SIRCPESGEHYEVTLLHFLQEYL

>sp|Q8NEX9|DR9C7\_HUMAN Short-chain dehydrogenase/reductase family 9C member 7 OS=Homo sapiens GN=SDR9C7 PE=1 SV=1

MAALTDLSEMYRWFKNLNLVGNLSEKYVFITGCDSGFGNLLAKQLVDRGMQVLAACFTEE  
GSQKLQRDTSYRLQTLLDVTKSESIKAAQWVRDKVGEQGLWALVNNAGVGLPSGPNEW  
LTKDDFVKVINVLVGLIEVTLHMLPMVKRARGRVNMSSSGRVAVIGGGYCVSKFGVE  
AFSDSIRRELYYFGVKVCIIEPGNYRTAILKENLESRMKRLWERLPQETRDSYGEDYFR  
IYTDKLNIMQVAEPRVRDVINSMEHAIVSRSPRIRYNPGLDAKLLYIPLAKLPTPVTDF  
ILSRYLPRPADSV

>sp|Q8NBI3|DRAXI\_HUMAN Draxin OS=Homo sapiens GN=DRAXIN PE=1 SV=2

MAGPAIHTAPMLFLVLLPLELSLAGALAPGTPARNLPENHIDLPGPALWTPQASHHRRR  
GPGKKEWGPGLPSQAQDGAVVTATRQASRLPEAEGLLPEQSPAGLLQDKDLLLGLALPYP  
EKENRPPGWERTKRKSRHKKRRDRRLRHQGRALVRGPSSLMKKAELSEAQVLDAAMEES  
STSLAPTMFFLTTFEAPATEESLILPVTSLRPQQAQPRSDGEVMPTLDMALFDWTDYED  
LKPDGWPSAKKKEKHRGKLSDDGNETSPAEGEPCDHHQDCLPGTCCDLREHLCTPHNRGL  
NNKCFDDCMVEGLRCYAKFHRNRRVTRRKGRCEPETANGDQGSFINV

>sp|P79483|DRB3\_HUMAN HLA class II histocompatibility antigen, DR beta 3 chain OS=Homo sapiens GN=HLA-DRB3 PE=1 SV=1

MVCLKLPGGSSLAALTVTLMVLSSRLAFAGDTRPRFLELRKSECHFFNGTERVRYLDRYF  
HNQEEFLRFDSDVGEYRAVTELGRPVAESWNSQKDLLEQKRGRVDNYCRHNYGVGESFTV  
QRRVHPQVTVYPAKTQPLQHNNLLVCSVSGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNG  
DWTFTLVMLETVPRSGEVYTCQVEHPSVTSALTVEWRARSESAQSKMLSGVGGFVLGLL  
FLGAGLFIYFRNQKGHSGLQPTGFLS

>sp|Q16643|DREB\_HUMAN Drebrin OS=Homo sapiens GN=DBN1 PE=1 SV=4

MAGVSFSGHRELLAAYEEVIREESAADWALYTYEDGSDDLKLAASGEGGLQELSGHFEN  
QKVMYGFCSVKDSQAALPKYVLINWVGEDVPDARKCACASHVAKVAEFFQGVDVIVNASS  
VEDIDAGAIQRLSNGLARLSSPVLHRLRLREDENAEPVGTTYQKTDAAVEMKRINREQF  
WEQAKKEEELRKEEERKKALDERLRFEQERMEQERQEERERRREREREQQIEHRRKQQ  
TLEAEEAKRRLKEQSIFGDHRDEEEETHMKKSESEVEEAAAIIAQRPDNPREFKQQERV  
ASASAGSCDVSPFNHRPGSHLDHRRMAPTPIPTRSPSDSSTASTPVAEQIERALDEVT  
SSQPPPLPPPPPAQETQEPSPILDSEETRAAAPQAWAGPMEEPPQAQAPPRGPGSPAED  
LMFMESAEQAVLAAPVEPATADATEIHDAADTIETDTATADTTVANNVPPAATSLIDLWP  
NGEGASTLQGEPRAPTPPSGTEVTLAEVPLLDEVAPEPLLPAGEGCATLLNFDELPEPP  
ATFCDPEEVEGESLAAPQTPTLPSALEELEQEQEPEPHLLTNGETTQKEGTQASEGYFSQ  
SQEEFAQSEELCAKAPPPVFYNKPPEIDITCWDADPVPEEEEGFEGGD

>sp|Q13474|DRP2\_HUMAN Dystrophin-related protein 2 OS=Homo sapiens GN=DRP2 PE=2 SV=2

MQPMVMQGCPTYLPRCHDWQAADQFHHSSSLRSTCPHPQVRAAVTSPAPPQDGAGVPCLS  
LKLLNGSVGASGLEPPAMNLCWNEIKKSHNLRARLEAFSDHSGKLQLPLQEIIDWLSQ  
KDELSAQLPLQGDVALVQKEKETHAAFMEEVKSRGPYIYSVLESAQAFLSQHPFEELEE

PHSESKDTS PKQRIQNLSRFVWKQATVASELWEKL TARCVDQHRHIERTLEQLLEIQGAM  
EELSTTLSQAEGVRATWEP IGDLFIDSLPEHIQAIKLFKEEFSPMKDGVKLVNDLAHQLA  
ISDVHLSMENSQALEQINVRWKQLQASVSERLKQLQDAHRDFGPGSQHFLSSSVQVPWER  
AISPKNVPYYINHQAQTTCDWHPKMTELYQTLADLNNIKFSAYRTAMKLRRVQKALRLDL  
VTLT TALEIFNEHDLQASEHVM DVVEVIHCLTALYERLEEERGILVNVPLCVDMSLNWLL  
NVFDSGRSGKMRALSFKTG IACLCGTEVKEKLQYLFSQVANSQSQCQRHLGVLLHEAIQ  
VPRQLGEVA AFGGSNVEPSVRSCFRFSTGKPVIEASQFLEWVNLEPQSMVWLAVLHRVTI  
AEQVKHQTKCSICRQCP IKGFRYRSLKQFNVDICQTCFLTGRASKGNKLHYPIMEYYTPT  
TSSENMRDFATT LKNKFRSKHYFSKHPQRGYLPVQSVLEADYSETPASSPMWPHADTHSR  
IEHFASRLAEMESQNC SFFNDSLSPDDSIDEDQYLLRHSSPITDREPAFGQQAPCSVATE  
SKGELQKILAHLEDENRILQGELRRLKWQHEEAAEAPSLADGSTEAATDHRNEELLAEAR  
ILRQHKSRL ETRMQILEDH NKQLESQ LQRLRELLLPPTESD GSGSAGSSLASSPQQSEG  
SHPREKGQTTPDTEAADDVGSKSQDVSLCLEDIMEKLRHAFPSVRSSDVTANTLLAS

>sp|Q9UII6|DS13B\_HUMAN Dual specificity protein phosphatase 13 isoform B OS=Homo sapiens  
GN=DUSP13 PE=1 SV=3

MDSLQKQDLRRPKIHGAVQASPYQPPTLASLQRL LWVRQAATLNHIDEVWPSLFLGDAYA  
ARDKSKLIQLGITHV NAAAGKFQVDTGAKFYRGMSLEYGYEADDNPFFDL SVYFLPVA  
RYIRAALSVPQGRVLVHCAMGVSRSATLVLAFLMICENMTLVEAIQTVQAHRNICPNSGF  
LRQLQVLDNRLGRETGRF

>sp|Q9NX74|DUS2L\_HUMAN tRNA-dihydrouridine (20) synthase [NAD(P)+]-like OS=Homo sapiens  
GN=DUS2 PE=1 SV=1

MILNSLSLCYHNKILAPMVRVGTLP MRLALDYGADIVYCEELIDLKMIQCKRVVNEVL  
STVDFVAPDDRVRVFR TCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNMGCPKQY  
STKGGMGAALLSDPDKIEKILSTLVKGT RRPVTCKIRILPSLEDTL SLVKRIERTGIAAI  
AVHGRKREERPQHPV SCEVIKAIADTLSIPVIANGGSHDHIQQYSDIEDFRQATAASSVM  
VARAAMWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQMLREQLESPQGRL  
LHAAQSSREICEAFGLGAFYEETTQELDAQQARLSAKTSEQTGEPAEDTSGVIKMAVKFD  
RRAYPAQITPKMCLEWCRREKLAQP VYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKK  
LAEQAAAIVCLRSQGLPEGRLGEESPSLHKRKREAPDQDPGGPRAQELAQP GDLCCKPFV  
ALGSGEESPLEGW

>sp|Q96G46|DUS3L\_HUMAN tRNA-dihydrouridine (47) synthase [NAD(P)(+)]-like OS=Homo sapiens  
GN=DUS3L PE=1 SV=2

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVG  
DPAGNELAEPEAKRIRLEDGQTADGQTEEAEPGEQLQTQKRARGQNKGRPHVKPTNYDK  
NRLCPSLIQESA AKCFFGDRCRFLHDVG RYLETKPADLGPRCVLFETFGRCPYGVTCRFA  
GAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVRFERAEQALRRFSQGPT  
PAAAVPEGTA AEGAPRQENCGAQQVPAGPGTSTPPSSPVRTCGLTDEDVVRLRPCEKKR  
LDIRGKLYLAPLTTCGNLPFRICKRFGADVTCGEMAVCTNLLQGQMSEWALLKRHQCED  
IFGVQLEGAFPDMTKCAELLSRTVEVDFVDINVGCPIDL VYKGGGCALMNRSTKFQQI  
VRGMNQVLDVPLTVKIRTGVQERVNL AHRLLPELRDWGVALVTLHGRSREQRYTKLADWQ  
YIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALLKPWLFTEIKEQRHWD  
ISSSERLDILRDFNTYGLEHWGSDTQGV EKTRRFLEWLSFLCRYVPVGLLERLPQRINE  
RPPYYLGRDYLETLMASQKAADWIRI SEMLLGPVPPSFAFLPKHKANAYK

>sp|Q96M86|DNHD1\_HUMAN Dynein heavy chain domain-containing protein 1 OS=Homo sapiens  
GN=DNHD1 PE=2 SV=2

MVPEERRVGLSSDETSSDSLKSWHSICVLDSKEQLACQQKQRQFVKPVTESQPTVLEL  
LLAELRTLFSAVLQDSSPAAWRYLHAVLGLLPPYRELLVGHLDLLPFLEQLYCWAPWVQT  
HLHLDLLGAIVQAFPPDSSLLDSASHADCCPQKRRLHHRPPCPACPFVQAQWSRQQVKEE  
LATWLRPLTLPELQRCLGIVGAQVALEEAVWLDGLSLLPLALAADIPVRYESSDTDNAEV  
EPVGRKETRSQLDYEVPREKAFQKSSTGFSPETSFLDSQVMTALKMERYLKIIHFLYLVN  
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HSQATQPMLILLPPPGHPSATLHPLTVIQKLA AKYQQGQKQLQVIALGSEAWDPVSVVVS  
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ALPLLLHGLLLHRQLYGTRLQAHRGRWSQVTLTQVLQTQDQLWASLSNPRAAMQELAAS  
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QRLVQVNRRLSLQDLLTHVIRQDES DAPWSVLGPNARRPLEGVLETEALELSQLVGT LQ  
RDLDCLLQQLKGAPPCPSRRCAAVAHALWTGRPLPWRPHAPAGPQPPHWRQLSRRGQ  
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QLQYKRLEMNSNPLHFRVENGNPTVPERGLLLIGLQVLHAEWDPIAGALQDSPSSQPSP  
LPPVSI STQAPGTS DLPAPADLTVYSCP VYMGGPLGTAKLQSRNIVMHLPLPTKLT PNTC  
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>sp|Q8WWF6|DNJB3\_HUMAN DnaJ homolog subfamily B member 3 OS=Homo sapiens GN=DNAJB3 PE=1  
SV=1

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KRDIYDRYGEAGAEGGCTGGRPFEDPF EYVFSFRDPADVFREFFGGQDPFSFDLLGNPLE  
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>sp|075953|DNJB5\_HUMAN DnaJ homolog subfamily B member 5 OS=Homo sapiens GN=DNAJB5 PE=1 SV=1

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RGLYDQYGEGLKTGGGTSGGSSGSFHYTFHGDPHATFASFFGGSNPFDIFFASSRSTRP  
FSGFDPDDMDVDEDEDPFGAFGRFGFNLSRGPRRAPEPLYPRRKVQDPPVVHELVSLE  
EIYHGSTKRMKITRRRLNPDGRTVRTEDKILHIVIKRGWKEGTKITFPKEGDATPDNIPA  
DIVFVLKDKPHAHFRRDGTNVLVSALISLKEALCGCTVNIPTIDGRVIPLPCNDVIKPGT  
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>sp|Q8NHS0|DNJB8\_HUMAN DnaJ homolog subfamily B member 8 OS=Homo sapiens GN=DNAJB8 PE=1 SV=1

MANYYEVLGVQASASPEDIKKAYRKLALRWHDPKNPDNKEEAEEKFKLVSEAYEVLSDSK  
KRSLYDRAGCDSWRAGGASTPYHSPFDTGTYFRNPEDIFREFFGGLDPFSFEFWDSPFN  
SDRGGRGHGLRGAFSAGFGEPAFMEAFSSFNMLGCSGGSHTTFSSTSGGSSSGSGFK  
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>sp|Q96KC8|DNJC1\_HUMAN DnaJ homolog subfamily C member 1 OS=Homo sapiens GN=DNAJC1 PE=1 SV=1

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RRQRYDDILINGLPDWRQPVFYRRVRKMSNAELALLFIILTVGHYAVVWSIYLEKQLD  
ELLSRKREKKKKTKGSKSVDSKLGASEKNERLLMKPQWHDLLPCKLGIWFCLTLKALPH  
LIQDAGQFYAKYKETRLKEKEDALTRTELETLQKQKKVKKPKPEFPVYTPLETTYIQSYD  
HGTSIEEIEEQMDDWLENRNRTQKKQAPEWTEEDLSQLTRSMVKFPGGTPGRWEKIAHEL  
GRSVTDVTTKAKQLKDSVTCSPGMVRLSELKSTVQNSRPIKTATTLPDDMITQREDAEGV  
AAEEEQEGDSGEQETGATDARPRRRKPARLLEATAKPEPEEKSRAKRQKDFDIAEQNESS  
DEESLRKERARSAEEPWTQNNQKLELALQQYPRGSSDRWDKIARCVPSKSKEDCIARYK  
LLVELVQKKKQAKS

>sp|Q99543|DNJC2\_HUMAN DnaJ homolog subfamily C member 2 OS=Homo sapiens GN=DNAJC2 PE=1 SV=4

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EESEDEELQLEEFPMKLTLDPKDWKNQDHYAVLGLGHVRYKATQRQIKAHKAMVLKHP  
DKRKAAGEPIKEGDNDFYTCITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKDNFFE  
VFTPVFERNSRWSNKNVPLGDMNSSFEDVDIFYSFWYNFDSWREFSYLDEEEKEKAEC  
RDERRWIEKQNRATRAQRKKEEMNRIRTLVDNAYSCDPRIKKFKEEEKAKKEAEKKAKAE  
AKRKEQEAKKEQRQAELEAARLAKEKEEEEVRQQALLAKKEKDIQKKAICKERQKLNSC  
KTWNHFSDNAERVKMMEEVEKLCDRLELASLQCLNETLTSCTKEVGKAALEKQIEEINE  
QIRKEKEEAARMRQASKNTEKSTGGGNGSKNWEDDLQLLIKAVNLFPAGTNSRWEVI  
ANYMNIHSSSGVKRTAKDVIGKAKSLQKLDPHQKDDINKKAFDKFKKEHGVVPQADNATP  
SERFEGPYTDFTPWTTEEQKLLQALKTYPVNTPERWEKIAEAVPGRTKKDCMKRYKELV  
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>sp|Q13217|DNJC3\_HUMAN DnaJ homolog subfamily C member 3 OS=Homo sapiens GN=DNAJC3 PE=1 SV=1

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HAAVDGDPDNYIAYYRRATVFLAMGSKAALPDLTKVIQLKMDFTAARLQRGHLLKQGK  
LDEAEDDFKKVLKSNPSENEEKEAQSQLIKSDEMQRRLRSQALNAFGSGDYTAIAFLDKI

LEVCVWDAELRELRAECFIKEGEPRKAISDLKAASKLKNNTAEFYKISTLYYQLGDHEL  
SLSEVRECLKLDQDQHKRCFAHYKQVKKLNKLIESAEELIRDGRYTDATSKYESVMKTEPS  
IAEYTVRSKERICHCFSKDEKPEAIRVCSEVLQMEPDNVNALKDRAEAYLIEEMYDEAI  
QDYETAQEHNENDQQIREGLEKAQRLLKQSQRDYKILGVKRNAKKQEIIKAYRKLALQ  
WHPDNFQNEEEKKAEKKFIDIAAAKEVLSPEMRKKFDDGEDPLDAESQQGGGNPFHR  
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>sp|P49917|DNLI4\_HUMAN DNA ligase 4 OS=Homo sapiens GN=LIG4 PE=1 SV=2

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DAGDFAMIAYFVLKPRCLQKGSLLTIQQVNDLLDSIASNNSAKRKDLIKKSLQLITQSSA  
LEQKWLIRMIKDLKLGVSQQTIFSVFHNDAAELHNVTTDEKVCQRQLHDPVGLSDISI  
TLFSAFKPMLAAIADIEHIEKDMKHQSFYIETKLDGERMQMHKGDVYKYFSRNGYNYTD  
QFGASPTEGSLTPFIHNAFKADIQICILDGEMMAYNPNTQTFMQKGTKFDIKRMVEDSDL  
QTCYCVFDVLMVNNKKLGHETLRKRYEILSSIFTPIPGRIEIVQKTAHTKNEVIDALNE  
AIDKREEGIMVKPLSIYKPKRGEGLKIKPEYVSGLMDELILVGGYWGKSGRGMM  
SHFLCAVAEKPPPGEKPSVFHTLSRVGSGCTMKELYDLGLKLAKYWKPFHRKAPPSSILC  
GTEKPEVYIEPCNSVIVQIAAEIVPSDMYKTGCTLRFPRIEKIRDDKEWHECMTLDDLE  
QLRGKASGLASKHLYIGGDDEPQEKKRKAAPKMKKVIGIIEHLKAPNLTNVKNISNIFE  
DVEFCVMSGTDSQKPKDLENRIAEFGGYIVQNPDPDTCVIAGSENIRVKNIILSNKHDV  
VKPAWLLECFKTSFVPWQPRFMIHMCPTKEHFAREYDCYGSYFIDTDLNQLKEVFSG  
IKNSNEQTPEEMASLIADLEYRYSWDCSPLSMFRRHTVYLDYAVINDLSTKNEGTRLAI  
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>sp|Q9Y6K1|DNM3A\_HUMAN DNA (cytosine-5)-methyltransferase 3A OS=Homo sapiens GN=DNMT3A  
PE=1 SV=4

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AAETLPEASRAVENGCCTPKEGRGAPAEAGKEQKETNIESMKMEGSRGRLRGGLWESSL  
RQRMPRLTFQAGDPYYISKRRDEWLARWKREAEKKAKVIAGMNAVEENQGPGESQKVE  
EASPPAVQQPTDPASPTVATTPEPVGSDAGDKNATKAGDDEPEYEDGRGFGIGELVWGKL  
RGFSWWPGRIVSWMWTRSRAAEGTRVWVWFGDGKFSVVCVEKLMPLSSFCSAFHQATYN  
KQPMYRKAIYEVLQVASSRAGKLFPVCHDSDESATAKAVEVQNKPMIEWALGGFQPSGPK  
GLEPPEEEKNPYKEVYTDMMWVEPEAAAYAPPPAKKPRKSTAEKPKVKEIIDERTRERLV  
YEVRQKCRNIEDICISCGSLNVTLEHPLFVGGMCCQCKNCFLECAQQYDDDGYSYCTIC  
CGGREVLNCGNNCCRCFCVECDLLVGPGAAQAAIKEDPWNCYMGHKGTYGLLRRED  
WPSRLQMFFANNHDQEFDPKVPVPPVPAEKRPVIRVLSLFDGIATGLLVKDLGIQVDRY  
IASEVCEDSITVGMVRHGQKIMYVGDVRSVTQKHIQEWGPFDLVIGGSPCNDLSIVNPAR  
KGLYEGTGRLFFEFYRLLHDARPKEGDDRPFFWLFENVVAMGVSDKRDISRFLSNPVM  
DAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKFSKVRTITTRSNSI  
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>sp|Q9UJW3|DNM3L\_HUMAN DNA (cytosine-5)-methyltransferase 3-like OS=Homo sapiens  
GN=DNMT3L PE=1 SV=3

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VHTQHPLFEGGICAPCKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRCYCFE  
CVDSL VGPGTSGKVHAMSNNWCYLCLPSSRSGLLQRRRKWRSQKAFYDRESENPLEMFE  
TVPVWRQPVRLSLFEDIKKELTSLGFLESGSDPGQLKHVVDTDTVRKDVVEWGPFDL  
VYGATPPLGHTCDRPPSWYLFQFHRLLQYARPKGPSRPFFWMFVDNLVLNKEDLDVASR  
FLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWALVSEEELSLLAQNKQSSKLAAKWP  
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>sp|Q8WZ79|DNS2B\_HUMAN Deoxyribonuclease-2-beta OS=Homo sapiens GN=DNASE2B PE=2 SV=1

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LEYLYLDSTTRS WRKSEQLMNDTKSVLGRTLQQLYEAYASKSNNTAYLIYNDGVPKPVNY  
SRKYGHTKGLLLWNRVQGFWL IHSIPQFPPIPEEGYDYPPTGRRNGQSGICITFKYNQYE  
AIDSQLLVCNPNVYSCSIPATFHQELIHMPQLCTRASSSEIPGRLLTTLQSAQGQKFLHF  
AKSDSLDDIFAAWMAQRLKTHLLTETWQRKRQELPSNCSLPYHVYNIKAIKLSRHSYFS  
SYQDHAKWCISQKGTKNRWTCIGDLNRSPHQAFRSGGFICTQNWQIYQAFQGLVLYYESC  
K

>sp|P06340|DOA\_HUMAN HLA class II histocompatibility antigen, DO alpha chain OS=Homo sapiens GN=HLA-DOA PE=1 SV=1

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SRVELGQPNILICIVDNIFPPVINITWLRNGQTVTEGVAQTSFYSPDHLFRKFHYLPFV  
PSAEDVYDCQVEHWGLDAPLLRHWELQVPIPPPDAMETLVCALGLAIGLVGFLVGTVLII  
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>sp|Q5JSL3|DOC11\_HUMAN Dedicator of cytokinesis protein 11 OS=Homo sapiens GN=DOCK11 PE=1 SV=2

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DFSGDFRMLPCKSLRPEKIPNHVFEIDEDCEKDEDSSSLCSQKGGVIKQGWLHKANVNST  
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ELKMLDKYSHYLAATEQEEMEEWLITLKKIIQINTDSL VQEKKETVETAQDDETSSQGKA  
ENIMASLERSMHP ELMKYGRETEQLNKL SRGDGRQNLFSFDSEVQR LDFSGIEPDIKPFE  
EKCNRFLVNCHDLTFN ILGQIGNAKGPPTNVEPFFINLALFDVKNCKISADFHVDLN  
PPSVREMLWGSSTQLASDGSPKGS SPESYIHGIAESQLRYIQQGIFSVTNPHPEIFLVAR  
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SLDLGRFSPLYQDSSKLSSEDILKLLSEYKKPEKTKLQIIPGQLNITVECVPVDLSNC  
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SKCHEEGLDSYLSRFIKYSFRPEKPSAPQAQLIHETLATTMIATLKQSADFLSINKLLKY  
SWFFFEIIAKSMATYLL ENKIKLPRGQRFETYHHVLHSLLLAIIPHVTIRYAEIPDES  
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PLNLPMFAFKPLQRVQDSNLEYSLSDEYCKHHFLVGLLLRETSIALQDNYEIRYTAISV  
IKNLLIKHAFDTRYQHKNQAKIAQLYLPFVGLLLENIQRLAGRDTLYSCAMPNSASRD  
EFPCGFTSPANRGS LSTDKDTAYGSFQNGHIKREDSRGS LIPEGATGFPDQGNTGENTR

QSSTRSSVSQYNRLDQYEIRSLLMCYLYIVKMISEDTLTYWNKVSPQELINILILLEVC  
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HSSTTTEADIFHQALLEGNTATEVSLTVLDTISFFTQCFKTQLLNNDGHNPLMKKVFDIH  
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>sp|Q96HP0|DOCK6\_HUMAN Dedicator of cytokinesis protein 6 OS=Homo sapiens GN=DOCK6 PE=1  
SV=3

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NSDSMKGLLRAHGTHPAISTLARSATFSVTYPSPDIFLVIKLEKVLQQGDISECCEPYMV  
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DKLVRLVIRPPIISGQIVNLGRGAFAEAMAHVSVLVHRSLEAAQDARGHCPQLAAYVHYAF  
RLPGTEPSLPDGAPPVTVQAATLARGSGRPASLYLARSKSISSSNPD LAVAPGSVDDEVS  
RILASKLLHEELALQWVSSSAVREAILQHAWFFFQLMVKSMALHLLGQRLDTPRKLR  
PGRFLDDITALVGSVGLVITRVHKDVELAEHLNASLAFFLSDLLSLVDRGFVFSLVRAH  
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SSTFSSQAPDPKVTSMFELSGPFRQQHFLAGLLLTALALEPEAEGAFLLHKKAISAVH  
SLLCGHDTDPRYAEATVKARVAELYLPLLSIARDTLPRLHDAEGPGQRSRLASMLDSDT  
EGEGDIAGTINPSVAMAIAGGPLAPGSRASISQGPPTASRAGCALSAESSRTLLACVLWV  
LKNTPEALLQRWATDLTLPQLGRLLDLLYLCLAAFEYKGKKAFFERINSLTFKSLDMKAR  
LEEAILGTIGARQEMVRRSRERSPFNGPENVRWRKSVTHWKQTS DRVDTKDEMEHEALV  
EGNLATEASLVLDLTLEIIIVQTVMLSEARESVLGAVLKVVLYSLGSAQSALFLQHGLATQ  
RALVSKFPELLFEEDTELCADLCLRLRHCGSRISTIRTHASASLYLLMRQNFEIGHNFA  
RVKMQVTMSLSSLVGTTQNFSEEHLRRSLKTIITYAEEDMGLRDSSTFAEQVQDLMFNLHM  
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VHAAALVAEYLALLEDDRHLPGVCVSFQNISSNVLEESAISDDILSPDEEGFCSGKHFT



LGLVGLLEQAAGYFTMGGLYEAVNEVYKNLIPILEAHRDYKKLA AVHGKLQEAFTKIMHQ  
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IIKDSNPVDKSKLDSQKAYIQITYVEPYFDTYELKDRV TYFDRNYGLRTFLFCTPFTPDG  
RAHGELPEQHKRKTLSTDHAFPIKTRIRVCHREETV LTPVEVAIEDMQKKTRELAFAT  
EQDPPDAKMLQMVLQGSVGPTVNQGPLEVAQVFLAE IPEDPKLFRHHNKLRLCFKDFCKK  
CEDALRKNKALIGPDQKEYHRELERNYCRLREALQPL LTQRLPQLMAPTPPGLRNSLNRA  
SFRKADL

>sp|Q8NF50|DOCK8\_HUMAN Dedicator of cytokinesis protein 8 OS=Homo sapiens GN=DOCK8 PE=1  
SV=3

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PVDFEGLLMTHLNSLDVQLAQELGDFTDDDL DVVFTPKECTRLQPSLPEEGVELDPHVRD  
CVQTYIREWLIVNRKNQGSPEICGFKKTGSRKDFHKTLPKQTFESETLECSEPAAGPR  
HLNVLCDVSGKGPVTACDFDLRSLQPDKRL ENLLQQVSAEDFEKQNEEARRTNRQAE LFA  
LYPSVDEEDAVEIRPVPECPEHLGNRILVKLLTLKFEIEIEPLFASIALYDVKERKKIS  
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CAEPTYVIKESDGGKSKEKIEKLKLAESFCQRLGKYRMPFAWAPISLSSFFNVSTLERE  
VTDVDSVVGRSSVGERRTLAQSRRLSERALSLEENG VGSNFKTSTLSVSSFFKQEGDRLS  
DEDLFKFLADYKRSSSLQRRVKSIPGLLRLEI STAPEIINCCLTPEMLPVKPFENRTRP  
HKEILEFPTREVYVPHTVYRNLLYVYPQRLNFVNKLASARNITIKIQFMCGEDASNAMPV  
IFGKSSGPEFLQEVYTAVTYHNKSPDFYEEVKIKLPAKLT VNHLLFTFYHISCQQKQGA  
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NSSRLEPLVFLHLVLDKLFQLSVQPMV IAGQTANFSQFAFESVVAIANS LHNSKDLSKD  
QHGRNCLLASVHYVFRLEPEVQRDVPKSGAPTALLDPRS YHTYGRTSAAAVSSKLLQARV  
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HEELALQMVVSTGMVRET VFKYAWFFFELLVKSMAQH VHNMDKRDSFRRTFRSDRFMDDI  
TTIVNVVTSEIAALLVKPQKENEQAEKMNISLAFFLYD LLSLMDRGFVFNLIRHYCSQLS  
AKLSNLPTLISMREFLRILCSHEHYLNLN LFFMNADTAPTSPCPSISSQNSSCSSFQD  
QKIASMFDLTSEYRQQHFLTGLLFTELAAALDAEGEGISKVQRKAVSAIHSLLSSHLDLP  
RCVKPEVKVKIAALYLPVGIILDALPQLCDFTVADTRRYRTSGSDEEQEGAGAINQ NVA  
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VEQCFDLCHQVLHHCSSMDVTRSQACATLYLLMRFSFGATSNFARVKMQVTMSLASLVG  
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DHSYLPVGSVSFQNISSNVLEESVVS EDTLSPDEDGVCAGQYFTESGLVGLLEQAAELFS  
TGGLYETVNEVYKLVIPILEAHREFRKLTLTHSKLQRAFDSIVNKDHKRMFGTYFRVGFF  
GSKFGDLDEQEFVYKEPAITKLP EISHRLEAFYGCFGAEFVEVIK DSTPVDKTKLDPNK  
AYIQITFVEPYFDEYEMKDRV TYFEKNFNLRFRMYTTPFTLEGRPRGELHEQYRRNTVLT  
TMHAFPIKTRISVIQKEEFLTPIEVAIEDM KKKTLQLAVAINQEPPDAKMLQMVLQGS  
VGATVNQGPLEVAQVFLAEIPADPKLYRHHNKLRLCFKEFIMRCGEAVEKNKRLITADQR  
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>sp|Q7L591|DOK3\_HUMAN Docking protein 3 OS=Homo sapiens GN=DOK3 PE=1 SV=2

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ETPIKDGIYQQHVFKGKCKWRKVVALLYAGGPSGVARLESWEVRDGGGLGAAGDRSAGPG  
RRGERRVIRLADCVSVLPADGESCPDRTGAFLLTTTTERSHLLAAQHRQAWMGPIQLAFP  
GTGEASSGSTDAQSPKRGLVPMEENSIYSSWQEVGEFPVVVQRTEAATRCQLKGPALLVL  
GPDALQLREAKGTQALYSWPYHFLRKFGSDKGVFSFEAGRCHSGEGLFAFSTPCAPDLC  
RAVAGAIARQRERLPELTRPQPCPLPRATSLPSLDTPGELREMPPGPEPPTSRRKMHLAEP  
GPQSLPLLLGPEPNDLASGLYASVCKRASGPPGNEHLYENLCVLEASPTLHGGEPEPHEG  
PGSRSPPTTSPIYHNGQDLSPWGPANDSTLEAQYRRLELDQVEGTGRPDPPQAGFKAKLVT  
LLSRERRKGPAPCDRP

>sp|Q18PE1|DOK7\_HUMAN Protein Dok-7 OS=Homo sapiens GN=DOK7 PE=1 SV=1

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DICGLEPGLPYEGLVHTLAIVCLSQAIMLGFDSEAMCAWDARIRYALGEVHRFHVTVAP  
GTKLESGPATLHLCDNDVLVLARDIPPAVTGQWKLSDLRRYGAVPSGFIFEGGTRCGYWAG  
VFFLSSAEGEQISFLFDCIVRGISPTKGPFLRPVLPDPSPPGPSTVEERVAQEALETQ  
LEKRLSLLSHAGRPGSGGDDRSLSSSSSEASHLDVSASSRLTAWPEQSSSSASTSQEGPR  
PAAQAAGEAMVGASRPPPKPLRPQLQEVGRQSSSDGIATGSHSSYSSSLSSYAGSSL  
DVWRATDELGSLLSLPAAGAPEPSLCTCLPGTVEYQVPTSLRAHYDTPRSLCLAPRDHSP  
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HAGPPPAFFSACPVCGGLKVNPPP

>sp|Q9NYP3|DONS\_HUMAN Protein downstream neighbor of Son OS=Homo sapiens GN=DONSON PE=1  
SV=2

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFPA  
AGGRGGGSGGPAARRNPFARLDNRPRVAAEPPDGPAREQEAPVPFLDSNQENDLLWE  
EKFPERTTVTELPQTSHVSEPDIPSSKSTELPVDWSIKTRLLFTSSQPFTWADHLKAQ  
EEAQGLVQHCRATEVTLPKSIQDPKLSSELRCTFQQSLIYWLHPALSWLPLFPRIGADRK  
MAGKTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS  
DLITALISPTTGRLEAMRNEGIEFSLPLIKESGHKKETASGTS LGYGEEQAISDEDEEE  
SFSWLEEMGVQDKIKKPDILSIKLKEKHEVQMDHRPESVVLVKGINFTLLNFLINSKS  
LVATSGPQAGLPPTLLSPVAFRGATMQLKARSVNVTQALSGYRDQFSLEITGPIMPHS  
LHSLTMLLKSSQSGSFSAVLYPHEPTAVFNICLQMDKVLDMEVVHKELTNCGLHPNTLEQ  
LSQIPLLKSSLRNVLRDIYNWRS

>sp|Q9BQC3|DPH2\_HUMAN Diphthamide biosynthesis protein 2 OS=Homo sapiens GN=DPH2 PE=1  
SV=1

MESMFSSPAEALQRETGVPGLLTLPDLGVEYELERVAGFVRDLGCERVALQFPDQLLG  
DAVAVAAARLEETGSKMFILGDTAYGCCVDVLGAEQAGAQUALIHFGPACLSPPARPLPV  
AFVLRQRSVALELCVKAFAEQNPDPKAPVVLLSEPACAHAEALATLLRPRYDLVSSP  
AFPQPVGSLSPEPMPLERFGRRFPLAPGRRLEEYGA FYVGGSKASPDPLDPLSRLLLG  
WAPGQPFSSCCPDGTQDEGARAGRLRARRRYLVERARDARVVGLLAGTLGVAQHREAL  
AHLRNLTAAGKRSYVLALGRPTAKLANFPEVDVFVLLACPLGALAPQLSGSFFQPILA  
PCELEAACNPAPPPGLAPHLTHYADLLPGSPFHVALPPPESELWETPDVSLITGDLRPP  
PAWKSSNDHGSLALTPRPQLELAESSPAASFLSSRSWQGLEPRLGQTPVTEAVSGRRGIA  
IAYEDEGSG

>sp|Q9H4G8|DPH3B\_HUMAN Putative DPH3 homolog B OS=Homo sapiens GN=DPH3P1 PE=5 SV=1

MAVFHDEVEIEDFQYDEDESETYFCPCPCGDNFSITKEELENCEGVAMCPGCSLI IKVIYD  
KDQFACGETVPVPSVNKE

>sp|094777|DPM2\_HUMAN Dolichol phosphate-mannose biosynthesis regulatory protein OS=Homo sapiens GN=DPM2 PE=1 SV=3

MATGTDQVVGLGLVAVSLIIFTYYTAWVILLPFIDSQHVHVKYFLPRAYAVAIPLAAGLL  
LLLFVGLFISYVMLKTKRVTKKAQ

>sp|P49005|DPOD2\_HUMAN DNA polymerase delta subunit 2 OS=Homo sapiens GN=POLD2 PE=1 SV=1

MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATRLLIQ  
MRPFLENRAQQHWGSGVGKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEHNLLPQ  
PPRSKYIHPDDELVEDELQRIKLKGTIDVSKLVTGTVLAVFGSVRDDGKFLVEDYCFAD  
LAPQKPAPPLDTRFVLLVSGLGLGGGGESLLGTQLLDVVTGQLGDEGEQCSAAHVS  
R VILAGNLLSHSTQSRDSINKAKYLTCKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFD  
PTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMED  
HLEILEWTLRVHRISPTAPDTLGCYPFYKTDPFIFPECPHVYFCGNTPSFGSKIIRGPED  
QTVLLVTVPDFSATQTAQLVNLRLSLACQPI SFGSGAEDDDLGGGLGLP

>sp|P56282|DPOE2\_HUMAN DNA polymerase epsilon subunit 2 OS=Homo sapiens GN=POLE2 PE=1 SV=2

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MIERSVVEAAVQECSSVDETIEHVFNIIGAFDIPRFVYNSERKKFLPLMTNHPAPNLF  
GTPRDKAEMFRERYTILHQRTHRHELF TPPVIGSHPDESGSKFQLKT IETLLGSTTKIGD  
AIVLGMITQLKEGKFFLEDPTGTVQLDLSKAQFHSGLYTEACFVLAEGWFEDQVFHVNAF  
GFPPTESPSTTRAYYGNINFFGGPSNTSVKTS AKLKQLEENKDAMFVFLSDVWLDQVEV  
LEKLRI MFAGYSPAPPTCFILCGNFSSAPYGKNQVQALKDSLKTLADI ICEYPD IHQSSR  
FVFVPGPEDPGFGSILPRPPLAESITNEFRQRPFSVFTTNPCRIQYCTQEITVFREDLV  
NKMCRNCVRFPSSNLAIPNHFVKTILSQGHLTPLPLYVCPVYWAYDYALRVYPVPDLLVI  
ADKYDPFTTTNTECLCINPGSFP RSGFSFKVFYPSNKTVEDSKLQGF

>sp|Q8N608|DPP10\_HUMAN Inactive dipeptidyl peptidase 10 OS=Homo sapiens GN=DPP10 PE=1 SV=2

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LTNSSETRLSLEDLFRKDFVLHDPPEARWINDTVVYKSENGHVIKLN IETNATTLLENT  
TFVTFKASRHSVSPDLKYVLLAYDVKQIFHYSYTASYVIYNIHTREVWELNPPEVEDSVL  
QYAAWGQGQQLIYIFENNIYYQPDIKSSSLRLTSSGKEE IIFNGIADWLYEEELLHSHI  
AHWWSPDGERLAFLMINDSLVPTMVI PRFTGALYPKGKQYPYPKAGQVNPTIKLYV VNL  
Y GPHTLTLELMPPDSFKSREYYITMVKWSNTKT VVRWLNRAQNI SILTV CETTTGACSKKY  
EMTSDTWLSQQNEEPVFSRDGSKFFMTVPVKQGGRGEFHHVAMFLIQSKSEQITVRHLTS  
GNWEVIKILAYDETTQKIYFLSTESSPRGRQLYSASTEGLLNRQCISCNFMKEQCTYFDA  
SFSPMNQHFLFCEGPRVPVSLHSTDNPAKYFILESNSMLKEAILKKKIGKPEIKILHI  
DDYELPLQLSLPKDFMDRNQYALLIMDEEPGGQLVTDKFHIDWDSVLIDMDNVIARFD  
GRGSGFQGLKILQEIHRRLGSEVVKDQITAVKFLKLKLPYIDSKRLSIFGKGYGGYIASMI  
LKSDEKLFKCGSVVAPITDLKLYASAFSERYLGMP SKEESTYQAASVLHNHVLKEENIL  
IIHGTADTKVHFQHS AELIKHLIKAGVNYTMQVYPDEGHNVSEKSKYHLYSTILKFFSDC  
LKEEISVLPQEPEEDE

>sp|P27487|DPP4\_HUMAN Dipeptidyl peptidase 4 OS=Homo sapiens GN=DPP4 PE=1 SV=2

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RWISDHEYLYKQENNILVFNAEYGNSSVFLNSTFDEFGHSINDYSISPDGQFILLENY  
VKQWRHSYTASYDIYDLNKRQLITEERIPNNTQVWTWSPVGHKLAYVWNNDIYVKIEPNL  
PSYRITWTGKEDI IYNGITDWYEEEFVSAYSALWWSPNGTFLAYAQFNDTEVPLIEYSF  
YSDSLQYPKTVRPYPKAGAVNPTVKFFVNTDSLSSVTNATSIQITAPASMLIGDHYL  
CDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPS  
EPHFTLDGNSFYKIIISNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISN  
EYKMPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGPLPLY  
TLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFWYQMLPPHFDKSKKY  
PLLLDVYAGPCSQKADTVFRLNWTYLASTENIIVASFDRGRSGYQGDKIMHAINRRLGT  
FEVEDQIEAARQFSKMGFVDNKRIAIWGSYGGYVTSMLVSGSGVFKCGIAVAPVSRWE  
YYDSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQSAQIS  
KALVDVGVDQAMWYTDEDHGIASTAHQHIYTHMSHF IKQCFSLP

>sp|Q6V1X1|DPP8\_HUMAN Dipeptidyl peptidase 8 OS=Homo sapiens GN=DPP8 PE=1 SV=1

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LKKLLADTRKYHGYMMAKAPHDFMFVKRNDPDGPHSDRIYLLAMSGENRENTLFYSEIPK  
TINRAAVLMLSWKPLLDLFQATLDYGMYSREEELLRERKRIGTVGIASYDYHQSGTFLF  
QAGSGIYHVKGDPGQGTQQLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWSN  
IVTREERRLTIVHNELANMEEDARSAGVATFVLQEEFDRYSGYWWCPKAETTPSGGKILR  
ILYEENDESEVEI IHVTSPMLETRRADSFYRYPKTGTANPKVTFKMSEIMIDAEGRIIDVI  
DKELIQPFEILFEGVEYIARAGWTPEGKYAWSILLDRSQTRLQIVLISPELFIPEDDVM  
ERQRLIESVPDSVTPLIIYEETDIWINIHDIFHVFPQSHEEEIEFIFASECKTGRHLY  
KITSILKESKYKRSSGGLPAPSDFKCPIKEEIAITSGEWEVLGRHGSNIQVDEVRRLLVYF  
EGTKDSPLEHHLVYVSYVNPGEVTRLTDRGYSHSCCISQHCDFFI SKYSNQKNPHCVSLY  
KLSSPEDDPTCKTKEFWATILDSAGPLPDYTPPEIFSFESETTGFTLYGMLYKPHDLQPGK  
KYPTVLFYIGGPQVQLVNNRFKGVKYFRLNTLASLGYVVVVIDNRGSCHRGKLFEGAFKY  
KMGQIEIDDQVEGLQYLASRYDFIDLDRVG IHGWSYGGYLSLMALMQRSDIFRVAIAGAP  
VTLWIFYDTGYTERYMGHPDQNEQGYLGSVAMQAEKFPSEPNRLLLLHGFLDENVHFAH  
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>sp|Q7Z7J5|DPPA2\_HUMAN Developmental pluripotency-associated protein 2 OS=Homo sapiens  
GN=DPPA2 PE=1 SV=2

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GHLLQTNEQFTAPQKARCKIPALPLPTILPPINKVCRDTRLRDWCQQLGLSTNGKKIEVYL  
RLHRHAYPEQRQDMPMSQETRLQRCRKRKAVTKRARLQRSYEMNERAEETNTVEVITS  
APGAMLASWARIAARAVQPKALNSCIPVSVEAFMLQASGVRWCVVHGRLLSADTKGWVR  
LQFHAGQAWVPTTHRRMISLFLPACIFPSPGIEDNMLCPDCAKRNKMMKRLMTVEK

>sp|Q9H069|DRC3\_HUMAN Dynein regulatory complex subunit 3 OS=Homo sapiens GN=DRC3 PE=2  
SV=2

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LWQFENLRKLQLDNNIEKIEGLENLAHLVWLDLSFNNIETIEGLDTLVNLEDLSLFNNR  
ISKIDSLDALVKLQVLSLGNRIDNMMNIIYLRRFKCLRTLSSRNPISEAEDYKMFICA  
YLPDLMYLDYRRIDDHTKKLAEAKHQYSIDELKHQENLMAQLEDEQAQREELEKHKTAF  
VEHLNGSFLFDSMYAEDSEGNLSYLPGVGELLEITYKDKFVII CVNIFEYGLKQKEKRT  
ELDTFSECVREAIQENQEQQGRKIAKFEKHLSSLSAIREELELPNIEKMILECSADISE  
LFDALMTLEMQLVEQLEETINMFERNIVDMVGLFIENVQSLMAQCRDLENHHHEKLEIS

ISTLEKIVEGDLDEDLPNDLRALFVDKDTIVNAVGAISHDIHLLKIDNREDELVTRINSWC  
TRLIDRIHKDEIMRNRKRVKEINQYIDHMQSELDNLECGDILD

>sp|Q8IY82|DRC7\_HUMAN Dynein regulatory complex subunit 7 OS=Homo sapiens GN=DRC7 PE=1  
SV=3

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ITVSAELPAFTKDTIDISKLPISYKTNTPKEEHLLQVADNFSRQYSHLCPDRVPLFLHPL  
NECEVPKFVSTTLRPTLMPYPELYNWDSCAQFVSDFLTMVPLPDPLKPPSHLYSSTTVLK  
YQKGNCFDFSTLLCSMLIGSGYDAYCVNGYGSLLCHMDLTREVCPLTVKPKETIKKEEK  
VLPKKYTIKPPRDLCSRFEQEVEVKQKEIRAQEKKRLREEERLMEAEKAKPDALHGLR  
VHSWVLVLSGKREVPENFFIDPFTGHSYSTQDEHFLGIESLWNHKNYWINMQDCWNCKKD  
LIFDLGDPVRWEYMLLGTDKSQLSLTEEDSGINDEDDVENLGKEDEKSFDMPHSWVEQ  
IEISPEAFETRCPNGKKVIQYKRAKLEKWAPYLSNGLVSRLTTYEDLQCTNILEIKEWY  
QNREDMLELKHINKTTDLKTDYFKPGHPQALRVHSYKSMQPEMDRVIEFYETARVDGLMK  
REETPRMTTEYYQGRPDFLSYRHASFGPRVKKLTLSSAESNRPVIVKITERFFRNPAPKA  
EEDVAERVFLVAERIQLRYHCREDHITASKREFLRRETEVDSKGNKIIMTPDMCISFEVE  
PMEHTKKLLYQYEAMMHLKREEKLSRHQVWESELEVLEILKLREEEEAAHTLTISIYDTK  
RNEKSKEYREAMERMHEEHLRQVETQLDYLAFLAQLPPGEKLTWCQAVRLKDECLSDF  
KQRLINKANLIQARFEKETQELQKKQWYQENQVTLTPEDEDLYLSYCSQAMFRIRILEQ  
RLNRHKELAPLKYLALEEKLYKDPRLGELQKIFA

>sp|P35462|DRD3\_HUMAN D(3) dopamine receptor OS=Homo sapiens GN=DRD3 PE=1 SV=2

MASLSQLSSHLNYTCGAENSTGASQARPHAYYALSICALILAIIVFGNGLVCMVLERAL  
QTTTNYLVVSLAVADLLVATLVMPVWVYLEVTGGVWNFSRICCDVFTLDVMMCTASILN  
LCAISIDRYTAVVMPVHYQHGTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTV  
CSISNPDFVIYSSVVSFYLPFGVTVLVYARIYVVLKQRRRKILTRQNSQCNSVRPGFPQ  
QTLSPDPAHLELKRYYSICQDTALGGPGFQERGELKREEKTRNSLSPTIAPKLSLEVRK  
LSNGRLSTSLKLGPLQPRGVPLREKKATQMAIVLGAFIVCWLPFFLTHVLNTHCQCHV  
SPELYSATTWLGYVNSALNPVIYTTFNIEFRKAFLKILSC

>sp|Q02413|DSG1\_HUMAN Desmoglein-1 OS=Homo sapiens GN=DSG1 PE=1 SV=2

MDWSFRVVMAMFLIFLVVVEVNSEFRIQVRDYNTKNGTIKWSIRRRQKREWIKFAAACRE  
GEDNSKRNP IAKIHSDCAANQQVTYRISGVGIDQPPYGFV INQKTGEINITSIVDREVT  
PFFIIYCRALNSMGQDLERPLELRVRVLDINDNPPVFSMATFAGQIEENS NANTLVMI LN  
ATDADEPNLNSKIAFKIIRQEPSDSPMFIINRNTGEIRTMNFLDREQYGYALAVRGS  
DRDGGADGMSAECECNIKILDVNDNIPYMEQSSYTIEIQENTLNSNLEIRVIDLDEEFS  
ANWMAVIFFISGNEGNWFEIEMNERTNVGILKVVKPLDYEAMQSLQLSIGVRNKAEFHHS  
IMSQYKLKASAI SVTVLNVIEGPVFRPGSKTYVVTGNMGSNDKVGDFVATDLDTGRPSTT  
VRYVMGNPNADLLAVDSRTGKLT LKNKVTKEQYNMLGGKYQG TILSIDDNLQRTCTGTIN  
INIQSFGNDDRTNTEPNTKITNTGRQESTSSTNYDTSTTSTDSSQVYSSEPGNGAKDLL  
SDNVHFGPAGIGLLIMGFLVLGLVPFLMICDCGGAPRSAAGFEPVPECSDGAIHSWAVE  
GPQPEPRDITTVIPQIPPDNANIIECIDNSGVYTNEYGGREMQLGGGERMTGFELTEGV  
KTSGMPEICQEYSGTLRRNSMRECREGGLNMFMESYFCQKAYAYADEDEGRPSNDCLLI  
YDIEGVGSPAGSVGCCSFIGEDLDDSFDTLGPKFKKLADISLGKESYPDLDPSWPPQST  
EPVCLPQETEPVVS GHPPISPHFGTTT VISESTYPSGPGVLHPKPILDPLGYGNVTVTES  
YTTSDTLKPSVHVHDNRPASNVVVTERVVGPI SGADLHGMLEMPDLRDGNSNIVTERVIA  
PSSSLPTSLTIHHPRESSNVVVTERVIQPTSGMIGSLSMHPELANAHNVIVTERVVSGAG

VTGISGTTGISGGIGSSGLVGTSMGAGSGALSGAGISGGGIGLSSLGGTASIGHMRSSSD  
HHFNQTIGSASPSTARSRITKYSTVQYSK

>sp|Q14126|DSG2\_HUMAN Desmoglein-2 OS=Homo sapiens GN=DSG2 PE=1 SV=2

MARSPGRAYALLLLLCFNVGSLHLQVLSTRNENKLLPKPHLVQRKRAWITAPVALRE  
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ETPFLLLTGYALDARGNNVEKPLELRKVLNDINDNEPVFTQDVFVGSVEELSAHTLVMK  
INATDADEPNTLNSKISYRIVSLEPAYPPVFYLNKDTGEIYTTSVTLDREEHSSYTLTVE  
ARDGNGEVTDKPVKQAQVQIRILDVNDNIPVVENKVLEGMVEENQVNVEVTRIKVFDADE  
IGSDNWLANFTFASGNEGgyFHIETDAQTNEGIVTLIKEVDYEEEMKNLDFSIVANKAAF  
HKSIRSKYKPTPIPIKVVKVNVKEGIHFKSSVISIYVSESMRSSKGQIIGNFQAFDEDT  
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ITGTVLINVEDINDNCPTLIEPVQTIChDAEYVNVTAEDLDGHPNSGPFsFSVIDKPPGM  
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EAQHDSYVGLGPAAIALMILAFLLLLLVPLLLLmCHCGKGAkgFTPIPGTIEMLHPWNE  
GAPPEDKVVSFLPVDQGGSLVGRNGVGMAKEATMKGSSSASIVKGQHEMSEMDGRWEE  
HRSLLSGRATQFTGATGAIMTTETTKTARATGASRDMAGAAVAALNEEF LRNYFTDKA  
ASYTEEDENHTAKDCLLVYSQEETESLNASIGCCSFIEGELDDRFLDDLGLKFKTLAEVC  
LGQKIDINKEIEQRQKPATETSMNTASHSLCEQTMVNSENTYSSGSSFPVPKSLQEANA  
KVTQEIVTERSVSSRQAQKVATPLPDPMASRNV IATETSYVTGSTMPPTTVILGPSQPQS  
LIVTERVYAPASTLVDQPYANEGTVVVERTVIQPHGGSNPLEGTQHLQDVPYVMVRERE  
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VPGPLPDFGLEESGHSNSTITTSSTRVTKHSTVQHSYS

>sp|Q86SJ6|DSG4\_HUMAN Desmoglein-4 OS=Homo sapiens GN=DSG4 PE=1 SV=1

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PLFLIYCRALNSRGEDLERPLELRVKVMDINDNAPVFSQSVYTASIEENS DANTLVVKLC  
ATDADEENHLNSKIAYKIVSQEP SGAPMFILNRYTGEVCTMSSFLDREQHSMYNLVVRGS  
DRDGAADGLSSECDRIKVLVDVNDNFPTLEKTSYSASIEENCLSSELIRLQAIDLDEEGT  
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VASQFQMHP TPVRIQVVDVREGPAFHPSTMAFSVREGIKGSSLLNYVLGTYTAIDLDTGN  
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GTICIEVPDINDYCPNIFERRTICIDSPSVLISVNEHSYGSPFTFCVVD EPPGIADMWD  
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SYFSEKAYAYADEDEGRPANDCLLIYDHEGVGSPVGSIGCCSWIVDDLDESCMETLDPKF  
RTLAEICLNTEIEPFP SHQACIPISTDLPLLGP NYFVNESSGLTPSEVEFQEEMAASEPV  
VHGDIIVTETYGNADPCVQPTTII FDPQLAPNVVTEAVMAPVYDIQGNICVPAELADYN  
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>sp|Q9NRD8|DUOX2\_HUMAN Dual oxidase 2 OS=Homo sapiens GN=DUOX2 PE=1 SV=2

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TPGCPAEFLNIRIPPGDPVFPDQQRGDVLPFQSRWDPETGRSPSNPRDLANQVTGWLD  
GSAIYGSSHSWSDALRSFSGGQLASGPDPAFPRDSQNPLLMWAAPDPATGQNGPRGLYAF  
GAERGNREPFLQALGLLWFRYHNLWAQRLARQHPDWEDEELFQHARKRVIATYQNIAYVE  
WLPSFLQKTLPEYTYRPFDPISPEFVVASEQFFSTMVPPGVYMRNASCHFRKVLNKG  
FQSSQALRVCNNYWIRENPNLNSTQEVNELLGMSQISELEDNIVVEDLRDYWPGPGKF  
SRTDYVASSIQRGRDMGLPSYSQALLAFGLDIPRNWSDLNPNVDPQVLEATAALYNQDLS  
QLELLLGGLLESHGDPGLFSAIVLDQFVRLRDGDYWFENTRNLFSKKEIEDIRNTTL  
RDVLVAVINIDPSALQPNVFWHKGAPCPQPKQLTTDGLPQCAPLTVLDFEGSSPGFAI  
TIIALCCLPLVSLLSGVVAYFRGREHKKLQKKLKESVKKEAAKDGVPAWEPGPKERS  
PIIIQLLSDRCLQVLNRHLTVLRVVQLQPLQVNLILSNNRGCRITLLKIPKEYDLVLLF  
SSEEERGAFVQQLWDFCVRWALGLHVAEMSEKELFRKAVTKQQRERILEIFFRHLFAQVL  
DINQADAGTLPLDSSQKVREALTCELSRAEFAESLGLKPDQMFVESMFSLADKDGNGYLS  
FREFLDILVVFMKGSPEDKSRLMFTMYDLDENGFLSKDEFFTMRSFIEISNNCLSKAQL  
AEVVESMFRESGFQKEELTWEDFHFMLRDHSELRFQTCVKGGGGGNGIRDIFKQNI  
SCRVSFITRTPGERSHPQGLGPPAPEAPELGGPGLKKRFKGAAPVTPRLYTEALQEKMQ  
RGFLAQKLQYKRFVENYRRHIVCAIFSAICVGVFADRAYYYGFASPPSDIAQTTLVGI  
ILSRGTAASVSFMFSYILLTMCNRLITFLRETFLNRYVPFDAAVDFHRWIAMAAYVLA  
HSAGHAVNVYIFSVSPLSLLACIFPNVFNVDGSKLPQKFYWWFFQTVPGMTGVLLLLVLA  
IMYVFASHHFRRRSFRGFWLTHHLYILLYALLIIHGSYALIQLPFHIYFLVPAIIYGGD  
KLVSLSRKKEISVVKAEELLPSGVTYLQFQRPQGFYKSGQWRIACLALGTTEYHPFTL  
TSAPHEDTSLHIRAVGPWTTLREIYSSPKGNGCAGYPKLYLDGPFGEHGEWHKFEVS  
VLVGGGIGVTPFASILKDLVFKSSLSQMLCKKIYFIWVTRTQRQFEWLADIIQVEEEND  
HQDLVSVHIYVTQLAEKFDLRTTMLYICERHFQKVLNRSFLTGLRSITHFRPPFEPFFN  
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>sp|Q9Y6W6|DUS10\_HUMAN Dual specificity protein phosphatase 10 OS=Homo sapiens GN=DUSP10  
PE=1 SV=1

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NENTGSLSPSSGVSFVSGTPKQLASIKIIYPNDLAKKMTKCSKSHLPSQGPVIIDCRPF  
MEYNKSHIQGAVHINCADKISRRLQQKITVLDLISCREGKDSFKRIFSKEIIYDENT  
NEPSRVMPSQLHIVLESKREGKEPLVLKGGSSFKQNHENLCDNSLQLQECREVGGA  
SAASSLLPQPIPTPDIEAELTPILPFLFLGNEQDAQDLDTMQRNLIGYVINVTTHLPL  
YHYEGLFNYKRLPATDSNKQNLQYFEEAFEFIEEAHQCGKGLIHCQAGVSRSATIVI  
AYLMKHTRMTMTDAYKFVKGKRPISPNLNFMGQLLEFEEDLNNGVTPRILTPKLMGVET  
VV

>sp|Q8WTR2|DUS19\_HUMAN Dual specificity protein phosphatase 19 OS=Homo sapiens GN=DUSP19  
PE=1 SV=1

MYSLNQEIKAFSRNNLRKQCTRVTTLTGKKIIEWKDARIHVVEEVEPSSGGGCGYVQDL  
SSDLQGVGIKPWLLLSQDAADHDLTKKNKVTHILNVAYGVENAFSLDFTYKSIISLDL  
PETNLSYFPECFEFIEEAKRKDGVLVHCNAGVSRAAAIVIGFLMNSEQTSFTSAFSLV  
KNARPSICPNSGFMEQLRTYQEGKESNKCDRIQENSS

>sp|O95620|DUS4L\_HUMAN tRNA-dihydrouridine (20a/20b) synthase [NAD(P)+]-like OS=Homo  
sapiens GN=DUS4L PE=2 SV=2

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AADFVKS IKARDSEFTTNQDCPLIVQFAANDARLLSDAARIVCPYANGIDINCGCPQRW  
AMAEYGACLINKPELVQDMVKQVRNQVETPGFSVSIKIRIHDDLKRTVDLCQKAEATGV  
SWITVHGRTAEERHQPVHYDSIKI IKENMSIPVIANGDIRSLKEAENVWRITGTDGVMVA  
RGLLANPAMFAGYEETPLKCIWDWVDIALELGTPYMCFHQHLMYMMEKITSRQEKRVFNA  
LSSTS AII DYLT DHYGI

>sp|P19525|E2AK2\_HUMAN Interferon-induced, double-stranded RNA-activated protein kinase  
OS=Homo sapiens GN=EIF2AK2 PE=1 SV=2

MAGDLSAGFFMEELNTYRQKQGVVLKYQELPNSGPPHRRFTFQVIIDGREFPEGEGRSK  
KEAKNAAAKLAVEILNKEKKAVSPLLLTTNSSEGLSMGNYIGLINRIAQKKRLTVNYEQ  
CASGVHGPGEFHYKCKMGQKEYSIGTGSTKQEAQLAAKLAYLQILSEETSVKSDYLSSG  
SFATTCEQSNSLVSTLASESSSEGDFSADTSEINSNSDSLSSSLLMGLRNNQRKAK  
RSLAPRFDLPDMKETKYTVDKRFGMDFKEIELIGSGGFGQVFKAKHRIDGKTYVIKRVKY  
NNEKAEREVKALAKLDHVNIVHYNGCWDGFDYDPETSDDSLSSDYDPENSKNSSRSKTK  
CLFIQMEFCDKGTLEQWIEKRRGEKLDKVLALLEFEQITKGVDYIHSKKLIHRDLKPSNI  
FLVDTKQVKIGDFGLVTSKNDGKRTRSKGTLRYMSPEQISSQDYGKEVDLYALGLILAE  
LLHVCDTAFETSKFFTDLRDGIISDIFDKKEKTLLQKLLSKKPEDRPNTSEILRTLTVWK  
KSPEKNERHTC

>sp|Q9NZJ5|E2AK3\_HUMAN Eukaryotic translation initiation factor 2-alpha kinase 3 OS=Homo  
sapiens GN=EIF2AK3 PE=1 SV=3

MERAISPGLLVRALLLLLLLLGLAARTVAAGRARGLPAPTAAAFGLGAAAAPTSATRV  
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ENHGKKQWDLDVGSGSLVSSSLSKPEVFGNKMIIPSLDGALFQWDQDRESMETVPFTVES  
LLESSYKFGDDVVLVGGKSLTTYGLSAYSGKVRYICSALGCRQWDSDEMEQEEDILLQR  
TQKTVRAVGPRSGNEKWNFSVGHFELRYIPDMETRAGFIESTFKPNENTEESKIISDVEE  
QEAAIMDIVIKVSADVWKVMAFSKKGHLEWEYQFCTPIASAWLLKDGVIPISLFDDTS  
YTSNDDVLEDEEDIVEAARGATENSVYLGMYRGQLYLQSSVRISEKFPSSPKALESVTNE  
NAIIPLPITIKWKPLIHSPSRTPVLVGSDEFDKCLSNDFKSHEEYSNGALSILQYPYDNGY  
YLPYYKRERNKRSTQITVRFLDNPHYNKNIRKKDPVLLHWWKEIVATILFCIIATTFIV  
RRLFHPPHPRQRKESETQCQTENKYDSVSGEANDSSWNDIKNSGYISRYLTD FEPIQCLG  
RGGFGVVFEAKNKVDDCNYAIKRIRLPNRELAREKVMREVKALAKLEHPGIVRYFNAWLE  
APPEKWQEKMDIEIWLKDESTDWPLSSPMDAPSVKIRMDPFATKEHIEIIAPSPQRSR  
SFSVGISCDQTSSSESQFSPLEFGMDHEDISESVDAAYNLQDSCLTDCDVEDGTMDGND  
EGHSFELCPSEASPYVRSRERTSSSIVFEDSGCDNASSKEEPKTNRHLIGHNCANKLTAF  
KPTSSKSSSEATLSISPPRPTLSLDLTKNTEKLQPSSPKVYLYIQMQLCRKENLKDWM  
NGRCTIEERERSVCLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVGDFGLVT  
AMDQDEEEQTVLTPMPAYARHTGQVGTKLYMSPEQIHGNSYSHKVDIFSLGLILFELLYP  
FSTQMERVRTLT DVRNLKFPLFTQKYPCEYVMVQDMLSPSPMERPEAINI IENAVFEDL  
DFPGKTVLRQRSRLSSSGTKHSRQSNNSHSPLPSN

>sp|Q14209|E2F2\_HUMAN Transcription factor E2F2 OS=Homo sapiens GN=E2F2 PE=1 SV=1

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PKSPGEKTRYDTSLLTKKF IYLLSESEDGVLDLNWAAEVL DVQKRR IYDITNVLEGIQ  
LIRKKAKNNIQWVGRGMFEDPTRPGKQQQLGQELKELMNTEQALDQLIQSCSLSFKHLTE  
DKANKRLAYVVTYQDIRAVGNFKEQTVIAVKAPPQTRLEV PDRTEDNLQIYLKSTQGPIEV



YLCPEEVQEPDSPSEELPSTSTLCPSPDSAQPSSSTDPSIMEPTASSVPAPAPTPQQAP  
PPPSLVPLEATDSLLELPHPLLQQTEDQFLSPTLACSSPLISFSPSLDQDDYLWGLEAGE  
GISDLFDSYDLGDLLIN

>sp|P28340|DPOD1\_HUMAN DNA polymerase delta catalytic subunit OS=Homo sapiens GN=POLD1  
PE=1 SV=2

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VLEGVADGQVPPSAIDPRWL RTPPALDPQTEPLIFQQLEIDHYVGPAQVPVGGPPPSRG  
SVPVLRAFGVTDEGFSVCCHIHGFAPYFYTPAPPGFGPEHMGDLQRELNLAI SRDSRGGR  
ELTGPAVLAVELCSRESMFGYHGHGSPFLRITVALPRLVAPARRLLEQGIRVAGLGTPS  
FAPYEANVD FEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADV LWSDVVSHPP  
EGPWQRIAPLRLVSFDIECAGRKGI FPEPERDPVIQICSLGLRWGEPEPFLRLALTLRPC  
APILGAKVQSYEKEEDLLQAWSTFIRIMDPDVITGYNIQNFDPYLISRAQTLKVQTFPF  
LGRVAGLCSNIRDSSFQSKQTGRRD TKVVS MVGRVQMDMLQVLLREYKLSYTLNAV SFH  
FLGEQKEDVQHSIITDLQNGNDQTRRR LAVYCLKDAYLPLRLLERLMVLVNAVEMARVTG  
VPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEYTGATVIEPLKGYDVP IAT  
LDFSSLYPSIMMAHNLCTTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQIL  
ENLLSARKRAKAE LAKETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCL EISQSV  
TGFGRMIEKTKQLVESKYTVENGYSTSAKVVGDTDSVMCRFGVSSVAEAMALGREAAD  
WVSGHFPSPIRLEFEKVYFPYLLISKKRYAGLLFSSRPDAH RMDCKGLEAVRRDNCPLV  
ANLVTASLRLLIDRDPEGAVAHAQDVISDLLCNRIDISQLVITKELTRAASDYAGKQAH  
VELAERMKRDPGSAPSLGDRVPYV IISAAKGVAAYMKSEDPLFVLEHSLPIDTQYYLEQ  
QLAKPLLRIFEPILGEGRAEAVLLRGDHTRCKTVLTGKVGGLLAFARRNCCIGCRTVLS  
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MRKKVRKDLEDQEQLLRFGPPGPEAW

>sp|Q7Z5Q5|DPOLN\_HUMAN DNA polymerase nu OS=Homo sapiens GN=POLN PE=1 SV=2

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EDRKTQSPEKKDLKSLRSQTSRGS AKLSPQSFSVRLTDQLSADQKQKSISSLTLSSCLIP  
QYNQEASVLQKKGHKRKHFLMENINNENKGSINLKRKHITYNLSEKTSKQMALEEDTDD  
AEGYLSNGSNGALKKHFCDIRHLLDWAKS QLIEMLKQAAALVITVMYTDGSTQLGADQTP  
VSSVRGIVVLVKRQAEGGHGCPDAPACGPVLEGFVSDDPCIYIQIEHSAIWDQE QEAHQQ  
FARNVLFQTMCKCPVICFNAKDFVRIVLQFFGNDGSWKHVADF IGLDPRIAAWLIDPSD  
ATPSFEDLVEKYCEKSITVKVNSTYGNSSRNIVNQNVRENKTL YRLTMDLCSKLDYGL  
WQLFRTLELPLIPILAVMESHAIQVNKEEMKTSALLGARLKELEQEAHFVAGERFLITS  
NNQLREILFGKLKLHLSQRNSLPRTGLQKYPSTSEAVLNALRDLHPLPKIILEYRQVHK  
IKSTFVDGLLACMKKGSISSTWNQTGTVTGRLSAHPNIQGISKHPIQITTPKNFKGKED  
KILTISPRAMFVSSKGHTFLAADF SQIELRILTHLSGDPELLKLFQESERDDVFSTLTSQ  
WKDVPVEQVTHADREQTKKVYAVVYGAKERLAACLGVP IQEAAQFLESFLQYKKIKD  
FARAAIAQCHQTGCVV SIMGRRRLPRIHAHDQQLRAQAERQAVNFVVQGSAADLCKLAM  
IHFVTAVAASHTL TARLVAQIHDELLFEVEDPQIPECAALVRRTMESLEQVQALELQLQV  
PLKVSLSAGRSWGHVLP LQEAWGPPPGPCRTESPSNSLAAPGSPASTQPPPLHFSPSFCL

>sp|P42658|DPP6\_HUMAN Dipeptidyl aminopeptidase-like protein 6 OS=Homo sapiens GN=DPP6  
PE=1 SV=2

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EDNSLSQKKKVTVEDLFSDFKIHDPEAKWISDTEFIYREQKGTVRLWNVETNTSTVLIE  
GKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPEVSNA  
KLQYAGWGPKGQQLIFIFENNIYYCAHV GKQAIRVVSTGKEGVIYNGLSDWLYEEEILKT  
HIAHWWSPDGTRLAYAAINDSRVPI MELPTYTGT SIYPTVKPYHYPKAGSENPSISLHVIG  
LNGPTHDL EMMPPDDPRMREYYITMVKWATSTKVAVTWLNRAQNVSILTLCDATTGVCTK  
KHEDESEAWLHRQNEEPVFSKDGRKFFFIRAI PQGGRGKFYHITVSSSQPNSSNDNIQSI  
TSGDWDVT KILAYDEKGNKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCYTFS  
ASFSSHMDFFLLKCEGPGVPMVTVHNTT DKKKMF DLETNEHVKKA INDRQMPKVEYRDIE  
ID DYNLPMQILKPATFTD TTHYPLLLVVDGTPGSQSVAEKFEVSWETVMVSSHGAVVVKC  
DGRGSGFQGT KLLHEVRRRLGLLEEKDQMEAVRTMLKEQYIDRTRVAVFGKDYGGYLSTY  
ILPAKGENQGQTFTCGSALSPITDFKLYASAFSERYLGLHGLDNRAYEMTKVAHRVSALE  
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>sp|A6NFQ7|DPRX\_HUMAN Divergent paired-related homeobox OS=Homo sapiens GN=DPRX PE=3 SV=1  
MPGSEDLRK GKDQMHSRKRMTFKKQLEDLNILFNENPYPNPSLQKEMASKIDIHPTVL  
QVWFKNHRAKLKAKCKHIHQKQETPQPPIPEGGVSTSVGLRNADTL PRLPNAAHPIGLV  
YTGHRVPSFQLILYPNLKVPANDFIGHRIVHFGCCRPNIYCLYPILESQVCAPSFHSGS  
PACSSNQSRER

>sp|Q5T2R2|DPS1\_HUMAN Decaprenyl-diphosphate synthase subunit 1 OS=Homo sapiens GN=PDSS1  
PE=1 SV=1

MASRWWRRRCGSWKPAARSPGPGSPGRAGPLGPSAAAEVRAQVHRRKGLDLSQIPYINL  
VKHLTSACPNVCRISR FHHTTPDSKTHSGEKYTDPFKL GWRDLKGLYEDIRKELLISTSE  
LKEMSEYYFDGKGKAFRPI I VALMARACNIHNNSRHVQASQRAIALIAEMIHTASLVHD  
DVIDDASSRRGKHTVNKIWGEKKAVLAGDLILSAASIALARIGNTTVISILTQVIEDLVR  
GEFLQLGSKENENERFAHYLEKTFKKTASLIANSCKAVSVLGCPDPVVHEIAYQYGNVG  
IAFQLID DVLDFTSCSDQMKGKPTSADLKLGLATGPVLFACQQFPEMNAMIMRRFSLPGDV  
DRARQYVLQSDGVQQT TYLAQQYCHEAIREISKLRPSPERDALIQLSEIVLTRDK

>sp|P59020|DSCR9\_HUMAN Down syndrome critical region protein 9 OS=Homo sapiens GN=DSCR9  
PE=2 SV=1

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RWGSTSRQGE GAVLQRMLGRRAPPSWSRDHAYSRRGWENAAFLNRKRKQEGTENTSICC  
RPESALACG GNLSPQFLKKVIQIQTELW

>sp|Q9UL01|DSE\_HUMAN Dermatan-sulfate epimerase OS=Homo sapiens GN=DSE PE=1 SV=1

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ASSHEHIAARL TEAVHTMLSSPLEYLPWPDPKDYSARWNEIFGNL GALAMFCVLYPENI  
EARDMAKDYMERMAAQPSWLKDAPWDEVPLAHS LVGFATAYDFLYNYLSKTQKEKFLEV  
IANASGYMYETS YRRGWGFQYLHNHQPTNCMALLTGSLVLMNQGYLQEAYLWTKQVLTIM  
EKSLVLLREVTDGSLYEGVAYGSYTTRSLFQYMF LVQRHFNINHFHPWLKQHFAFMYRT  
ILPGFQRTVAIADSNYNWFYGPESQLVFLDKFVMRNGSGNWLADQIRNRNVVEGPGTPSK  
GQRWCTLHTEFLWYDGLSKSVPPDPFGTPTLHYFEDWGVV TYGSALPAEINRSFLSFKSG  
KLGGRAIYDIVHRNKYKDWIKGWRNFNAGHEHPDQNSFTFAPNGVPFITEALYGPKYTFF  
NNVLMFSPAVSKSCFSPVWGQVTEDCSSKWSKYKHDLAASCQGRVVA AEEKNGVVFIRGE  
GVGAYNPQLNLKNVQRNLILLHPQLLLLVDQIHLGEESPLETAASFFHNVDVPFEETVVD  
GVHGAFIRQRDGLYKMYWMDDTGYSEKATFASVTYPRGYPYNGTNYVNVTMHLRSPITRA

AYLFIGPSIDVQSFTVHGDSSQQLDVFIAATSKHAYATYLTWTEATGQSAFAQVIADRHKIL  
FDRNSAIKSSIVPEVKDYAAIVEQNLQHFKPVFQLLEKQILSRVRNTASFRKTAERLLRF  
SDKRQTEEAIDRIFAISQQQQQQSKSKNRRAGKRYKFVDAVPDIFAQIEVNEKKIRQKA  
QILAQKELPIDEDEEMKDLLDFADVITYEKHKNGGLIKGRFGQARMVTTTHSRAPLSASY  
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>sp|P32926|DSG3\_HUMAN Desmoglein-3 OS=Homo sapiens GN=DSG3 PE=1 SV=2

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PSFLITCRALNAQGLDVEKPLILTVKILDINDNPPVFSQQIFMGEIEENSASNSLVMILN  
ATDADEPNHLNSKIAFKIVSQEPAGTPMFLSRNTGEVRTLTNSLDREQASSYRLVVSQA  
DKDGEGLSTQCECNIKVKDVNDNPFMRDSQYSARIEENILSSELLRFQVTDLDEEYTDN  
WLAVYFFTSGNEGNWFEIQTDPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVI  
SRYRVQSTPVTIQVINVREGIAFRPASKTFTVQKGISSKKLVDYILGTYQAIDEDTNKAA  
SNVKYVMGRNDGGYLMIDSKTAEIKFVKNMNRDSTFIVNKTITAEVLAIDEYTGKTSTGT  
VYVRVPDFDNCPTAVLEKDAVCSSSPSVVSARTLNNRYTGPTYFALEDQPVKLPVWS  
ITTLNATSALLRAQEQIPPGVYHISLVLTD SQNNRCEMPRSLTLEVCQCDNRGICGTSYP  
TTSPPGTRYGRPHSGRLGPAAI GLLLLLGLLLLLLAPLLLLTCD CGAGSTGGVTGGFIPVPD  
GSEGTIHQWGIEGAHPEDKEITNICVPPVTANGADFMESSEVCTNTYARGTAVEGTS GME  
MTTKLGAATESGGAAGFATGTVSGAASGFGAATGVGICSSGQSGTMRTRHSTGGTNKDYA  
DGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATGSPVGSVGCCSFIADD  
LDDSFLDSLGP KFKKLAEISLGVDGEGKEVQPPSKDSGYGIESCGHPIEVQQTG FVKCQT  
LSGSQGASALSTSGSVQPAVSIPDPLQHGNLYVTETYSASGSLVQPSTAGFDPLLTQNV I  
VTERVICPISSVPGNLAGPTQLRGSHTMLCTEDPCSRLI

```
>sp|Q9NZW4|DSPP HUMAN Dentin sialophosphoprotein OS=Homo sapiens GN=DSPP PE=1 SV=2
```

[illegible]

SSDSSDSSDSSDSSDSSDSSDSSDSSDSSNESSDSSDSSDSSDSSNSSDSSDSSDSSD

STSDSNDESDSQSKSGNGNNNGSDSDSDEGSDSNHSTSD

>sp|P60896|DSS1\_HUMAN 26S proteasome complex subunit DSS1 OS=Homo sapiens GN=SHFM1 PE=1 SV=1

MSEKKQPVDLGLLEEDDEFEEFPAEDWAGLDEDEDAAHVWEDNWDDNVEDDFSNQLRAEL  
EKHGYKMETS

>sp|Q96EV8|DTBP1\_HUMAN Dysbindin OS=Homo sapiens GN=DTNBP1 PE=1 SV=1

MLETLRERLLSVQQDFTSGLKTLSDKSREAKVKSKPRTVPFLPKYSAGLELLSRYEDTWA  
ALHRRAKDCASAGELVDSEVVMLSAHWEKKKTSVLVLEQLQQLPALIADLESMTANLTH  
LEASFEEVENLLHLEDLCGQCELERCKHMQSQQLENYKKNRKELETFAELDAEHAQK  
VLEMEHTQQMKLKERQKFFEEAFQDMEQYLSTGYLQIAERREPIGSMSSMEVNVDMLEQ  
MDLMDISDQEALDVFLNSGGEENTVLSPALGPESSTCQNEITLQVPNPSELRAKPPSSSS  
TCTDSATRDISEGGESPVVQSDEEEVQVDTALATSHTDREATPDGGEDSDS

>sp|Q6ZMT9|DTHD1\_HUMAN Death domain-containing protein 1 OS=Homo sapiens GN=DTHD1 PE=2 SV=3

MHDECTPQQTMSSIQDTKAADIAARGELNV IETATVSPTNGEESHYTNQVQLEKNKTHMS  
SALVEKENNTSLNGRVLGQESQNKMPDNAENEDDKQIEHMTVENINGNREETHGIIQT  
TETEIQETSESPREEMTSSIIICDISKKYINSTLPNDSENIKHKNNIMEKEYLDVLSDVT  
GPQVSCYITAPSYVLQQLECRIINHMSLIVGDNEELVSNVITIECSDKEKRVFPPIGIA  
IPFTARYRGNYRDIMVKVDINLQSSYLNPNSLEGMGKGKGTCAVVKYKLGIFS VVSC  
LKKESFTVTKGLALKSSMDSRISLNPYPGVFTSPVLVQLKIQPVDPALVAHLKAQQDTF  
YSVQSTSPLIHQHPSTYPFQKPVTLFLPCSPYLDKNNLGSEIDHKRRASATINRITPSY  
FNRTKIASIRKPRKNAECLKLLGFRSQDSGWCGLDDVVKTIQSGLSVELYEHLERFIV  
LHLSSTMDNSHLVTFVKSLEEAMLSTTACIVLSHQKDNPHRIAVLVVPSKDL SQVLKDLH  
LEGFGGPPEPSRHFQVREGEQLLRFTGNIFASSNGKDYGKDYTLIFHLQRKPRLELQIK  
EVDEFGNYSCPHYKGTIVVYKVPKGKIVPNLNQSLVINENHSQLPICKLPLKLPKHKKLI  
NRPQSTKRVSKDPVEALWDNLLHWLAEELSEENAESLSTLPLRRSTIQLIKLKNPDDL  
EQIHEFLCFWKSLPTFTDKLRLARHLRKIGRSDLAELKFKWENKVFTEPQQCFDVAP  
E

>sp|Q8NBA8|DTWD2\_HUMAN DTW domain-containing protein 2 OS=Homo sapiens GN=DTWD2 PE=1 SV=1

MESQKEARTLQEPVARPSGASSSQTPNDKERREGGAVPAAAAALGAEDDDADGLWELPV  
EPAERRPECTRCSRPKQVCLCPFLPAHPLHISTHLYIIQHPAEENKVLRTVPLLAACL PQ  
DKCKVKIGRRFSEERPELSTVCRKSGTLILYPGAEEANLEEFILDSPVYPSTIIIIIDGT  
WSQAKDIFYKNSLFRHPKQVQLKTSISSQYVIRMQPTNRCLSTLECAAAVALSILEKNNYI  
QETLLRPLQALCSFQLQHGAQIRLSKEHLLKNGLYPKMPKPKNRKLRKMELLMNSVKI

>sp|Q86UW9|DTX2\_HUMAN Probable E3 ubiquitin-protein ligase DTX2 OS=Homo sapiens GN=DTX2 PE=1 SV=3

MAMAPSPSLVQVYTSPA AVAVWEWQDGLGTWHPYSATVCSFIEQQFVQQKGQRFGLSLA  
HSIPLGQADPSLAPYIIDLPSWTQFRQDTGTMRAVRRHLFPQHSAPGRGVVWEWLSDDGS  
WTAYEASVCDYLEQQVARGNQLVDLAPLGYNVTVNYTTHTQTNKTSSFCRSVRRQAGPPY  
PVTIIAPPGHTGVACSCHQCLSGSRTGPVSGRYRHSMTNLPAYVPVQHPPHRTASVFGT  
HQAFAFYNKPSLSGARSAPRLNTTNAWGAAPPSLGSQPLYRSSLSHLGPQHLPPGSSTSG  
AVSASLPSGPPSSPGSVPATVPMQMPKPSRVQQALAGMTSVLMSAIGLPVCLSRAPQPTS  
PPASRLASKSHGSKRLRKMSVKGATPKPEPEPEQVIKNYTEELKVPPDEDCCIICMEKLS

TASGYSDVTDKAIGSLAVGHLTKCSHAFHLLCLLAMYCNGNKDGSQCPSCKTIYGEKT  
GTQPQKGMEVLRFAQMSLPGHEDCGTILIVYSIPHGIQGPEHPNPGKPFTARGFPRQCYLP  
DNAQGRKVLLELLKVAWKRRLLFTVGTSSTTGETDTVVWNEIHHKTEMDRNITGHGYPDPN  
YLQNVLAELAAQGVTEDCLEQQ

>sp|Q9Y2E6|DTX4\_HUMAN E3 ubiquitin-protein ligase DTX4 OS=Homo sapiens GN=DTX4 PE=1 SV=2

MLLASAVVVWEWLNEHGRWRPYPSPAVSHHIEAVVRAGPRAGGSVVLGQVDSRLAPYIIDL  
QSMNQFRQDTGTLRVPVRNYYDPSSAPGKGVVWEWENDNGSWTPYDMEVGITIQHAYEKQ  
HPWIDLTSIGFSYVIDFNTMGQINRQTQRQRRVRRRLDIYPMVTGTLPKAQSWPVSPGP  
ATSPMSPCSCPQCVLVMSVKAADVNGSTGPLQLPVTRKNMPPPGVVKLPPLPGSGAKPL  
DSTGTIRGPLKTAPSQVIRRQASSMPTGTTMGSPASPPGPNSKTGRVALATLNRTNLQRL  
AIAQSRVLIASGVPTVPVKNLNGSSPVNPALAGITGILMSAAGLPVCLTRPPKLVLHPPP  
VSKSEIKSIPGVSNTSRKTTKKQAKKGKTPEEVLKKYLQKVRHPPDEEDCTICMERLTAPS  
GYKGPQPTVKPDLVGKLSRCGHVYHIYCLVAMYNNGNKDGSQCPTCKTIYGVKTGTQPP  
GKMEYHLIPHSLPGHPDCKTIRIIYSIPPGIQGPEHPNPGKSFSARGFPRHCYLPDSEKG  
RKVLKLLLVAWDRRLIFAIGTSSTTGESDTVIWNEVHHKTEFGSNLTGHGYPDANYLDNV  
LAELAAQGISDSTAQEKD

>sp|Q9NRD9|DUOX1\_HUMAN Dual oxidase 1 OS=Homo sapiens GN=DUOX1 PE=1 SV=1

MGFCLALAWTLLVGAWTPLGAQNPISWEVQRFDGWYNNLMEHRWGSKGSRLQRLVPASIA  
DGVYQPLGEPHLNPNRDLSENTISRGAGLASLRNRTVLGVFFGYHVLSDLVSVETPGCPA  
EFLNIRIPPGDPMFDPDQRGDVLPFQSRWDPETGRSPSNRPDPANQVTGWLDGSAIYG  
SSHSWDALRSFSRQGLASGPDPAFPRDSQNPLLMWAAPDPATGQNGPRGLYAFGAERGN  
REPFLQALGLLWFRYHNLWAQRLARQHPDWEDEELFQHARKRVIATYQNIAYVEWLPSFL  
QKTLPEYTGYPFLDPSISSEFVAASEQFLSTMVPPGVYMRNASCHFQGVINRNSSVSRA  
LRVCNSYWSREHPSLQSAEDVDALLGMAEQIAEREDHVLVEDVRDFWPGPLKFSRTDHL  
ASCLQRGRDLGLPSYTKARAALGLSPITRWQDINPALSRSNDTVLEATAALYNQDLSWLE  
LLPGGLLESHRDPGLFSTIVLEQFVRLRDGDYWFENTRNLFSKKEIEEIRNTTLQDV  
LVAVINIDPSALQPNVFVWHKGDPCPQPRQLSTEGLPACAPSVVRDYFEGSGFGFGVTIG  
TLCCFPLVSLLSAWIVARLMRNFKRLQGQDRQSIVSEKLVGGMEALEWQGHKEPCRPVL  
VYLQPGQIRVVDGRLTVLRTIQLQPPQKVNFLSSNRGRRTLLLKIPKEYDLVLLFNLEE  
ERQALVENLRGALKESGLSIQEWELREQELMRAAVTREQRRHLETFFRHLFSQVLDINQ  
ADAGTLPLDSSQKVREALTCELSRAEFAESLGLKPQDMFVESMFLADKDGNGYLSFREF  
LDILVVMKGSPEEKSRMLFRMYDFDGNLISKDEFIRMLRSFIEISNNCLSKAQLAEVV  
ESMFRESGFQDKEELTWEDFHFMRLDHNSLRFTQLCVKGVEVPEVIKDLCCRASYISQD  
MICPSPRVSARCSRSDIETELTPQRLQCPMDTDPPEIRRRFGKKVTSFQPLLFTAHRE  
KFQRSCLHQTVQQFKRFIENYRRHIGCVAVFYAAGGLFLERAYYAFAAHHTGITDTR  
VGIILSRGTAASISFMFSYILLTCRNLITFLRETFLNRYVPFDAAVDFHRLIASTAIVL  
TVLHSGHVNVNLYLSISPLSVLSCLFPGLFHDDGSELPQKYYWFFQTVPGLTGVVLLL  
ILAIMYVFASHHFRRRSFRGFWLTHHLYILLVLLIIHGSFALIQLPFHIFFLVPAIIY  
GGDKLVLSRKKVEISVVKAELLPSGVTHLRFQRPQGFYKSGQWVRIACLALGTTEYHP  
FTLTSAPHEDTSLHIRAAGPWTTRLREIYSAPTGDRCARYPKLYLDGPFGEHGEWHKF  
EVSVLVGGGIGVTPFASILKDLVFKSSVSCQVFCKKIYFIWVTRTQRQFEWLADIIREVE  
ENDHQDLVSVHIYITQLAEKFDLRTTMLYICERHFQKVLNRSFLTGLRSITHFGRPPFEP  
FFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKACQLINRQDRTHFSHHYENF

>sp|Q68J44|DUPD1\_HUMAN Dual specificity phosphatase DUPD1 OS=Homo sapiens GN=DUPD1 PE=1 SV=1

MTSGEVKTSKLNAYSSAKRLSPKMEEEGEEEDYCTPGAFELERLFWKGGSPQYTHVNEVWP  
KLYIGDEATALDRYRLQKAGFTHVLNAAHGRWNVDTGPDYYRMDIQYHGVEADDLPFTD  
LSVFFYPAAAFIDRALSDHHSKILVHCVMGSRSATLVLAYLMIHKDMTLVDIAIQQVAKN  
RCVLPNRGFLKQLRELDKQLVQQRRRSQRQDGEEEDGREL

>sp|Q9H1R2|DUS15\_HUMAN Dual specificity protein phosphatase 15 OS=Homo sapiens GN=DUSP15 PE=1 SV=4

MTEGVLPGLYLGNFIDAKDLQDQGRNKKITHIISIHESPPQLDITYLRIPVADTPEVPI  
KKHFKECINFIHCCRLNGGNCLVHCFAGISRSTTIVTAYVMTVTGLGWRDVLEAIKATRP  
IANPNPGFRQQLEEFGWASSQKGAHRSTKTSQAQCPMTSATCLLAARVALLSAALVRE  
ATGRTAQRCRLSPRAAAERLLGPPPHVAAGWSPDPKYQICLCFGGEEDPGPTQHPKEQLIM  
ADVQVQLRPGSSSCTLSASTERPDGSSTPGNPDGITHLQCSCLHPKRAASSSCTR

>sp|Q6P1R4|DUS1L\_HUMAN tRNA-dihydrouridine(16/17) synthase [NAD(P) (+)]-like OS=Homo sapiens GN=DUS1L PE=1 SV=1

MPKLQGFEFWSRTLGRARHVAPMVDQSELAWRLSRRHGAQLCYTPMLHAQVFVRDANY  
RKENLYCEVCPEDRPLIVQFCANDPEVFVQAALLAQDYCDAIDLNLGCPQMIAKRGHYGA  
FLQDEWDLLQRMILLAHEKLSVPVTCKIRVFPEIDKTVRYAQMLEKAGCQLLTVHGRTKE  
QKGPLSGAASWEHIKAVRKAVAIPVFANGNIQCLQDVERCLRDTGVQGVMSAEGNLHNPA  
LFEGRSPAVWELAAEYLDIVREHPCPLSYVRAHLFKLWHHTLQVHQELREELAKVKTLEG  
IAAVSQELKLRCQEEISRQEGAKPTGDLPFHWICQPYIRPGPREGSKEKAGARSKRALEE  
EEGGTEVLSKNKQKKQLRNPHKTFDPSLKPKYAKCDQCGNPKGNRCVFSLCRGCKKRRAS  
KETADCPGHGLLFKTKLEKSLAWKEAQPELQEPQPAAPGTPGGFSEVMGSALA

>sp|Q9NRW4|DUS22\_HUMAN Dual specificity protein phosphatase 22 OS=Homo sapiens GN=DUSP22 PE=1 SV=1

MNGMNMKILPGLYIGNFKDARDAEQLSKNKVTHILSVHDSARPMLEGVKYLCIPAADSPS  
QNLTRHFKESEIKFIHECRLRGESCLVHCLAGVSRSVTLVIAYIMTVTDFGWEDALHTVRA  
GRSCANPNVGFQRQLQEFEKHEVHQYRQWLKEEYGESPLQDAEEAKNILAAPGILKFWAF  
LRRRL

>sp|Q9BV47|DUS26\_HUMAN Dual specificity protein phosphatase 26 OS=Homo sapiens GN=DUSP26 PE=1 SV=1

MCPGNWLWASMTFMARFSRSSRSPVTRGTLEEMPTVQHPFLNVFELERLLYTGKTACN  
HADEVWPGLYLGQDMANNRRELRLRGITHVLNASHSRWRGTPEAYEGLGIRYLGVEAHD  
SPAFDMSIHFQTAADFTHRALSQPGGKILVHCAVGVSRSATLVLAYLMLYHHLTLVEAIK  
KVKDHRGIIPNRGFLRQLLALDRRLRQGLEA

>sp|Q05923|DUS2\_HUMAN Dual specificity protein phosphatase 2 OS=Homo sapiens GN=DUSP2 PE=1 SV=1

MGLEAARELECAALGTLLRDPREAERTLLDCRPFLAFCCRHRVRAARPVPWNALLRRRAR  
GPPAAVLACLLPDRALRTRLVRGELARAVVLDEGSASVAELRPDSPAHVLLAALLHETRA  
GPTAVYFLRGGFDGFGCCPDLCSEAPAPALPPTGDKTSRSDSRAPVYDQGGPVEILPYL  
FLGSCSHSSDLQGLQACGITAVLNVASCPNHFEGLFYKSIPIVEDNQMVESAWFQEAI  
GFIDWVKNSGGRVLVHCQAGISRSATICLAYLMQSRVRVRLDEAFDFVKQRRGVISPNSF  
MGQLLQFETQVLCH

>sp|Q13202|DUS8\_HUMAN Dual specificity protein phosphatase 8 OS=Homo sapiens GN=DUSP8  
PE=1 SV=2

MAGDRLPRKVMDAKKLASLLRGGPGGPLVIDSRSFVEYNSWHVLSSVNICCSKLVKRRLQ  
QGKVTIAELIQPAARSQVEATEPQDVVVYDQSTRDASVLAADSFLSILLSKLDGCFDSVA  
ILTGGFATFSSCFPGLCEGKPAALLPMSLSQPCLPVPSVGLTRILPHLYLGSQKDVLNKD  
LMTQNGISYVLNASNSCPKPDFICESRFMRVPINDNYCEKLLPWLDKSI EFIDKAKLSSC  
QVIVHCLAGISRSATIAIAYIMKTMGMSSDDAYRFVKDRRPSISPNFNFLGQLLEYERSL  
KLLAALQGDPGTPSGTPEPPPSPAAGAPLRLPPPTSESAATGNAAAREGGLSAGGEPPA  
PPTPPATSALQQGLRGLHLSSDRLQDTNRLKRSFSLDIKSAYAPSRRPDGP GPPDPGEAP  
KLCKLDSPSGAALGLSSPSDPAAPPEARPRRRRPRPPAGSPARSPAHSGLNFGDAA  
RQTPRHGLSALSAPGLPGGPAGPGAWAPPLDSPGTPSPDGPWCFSPEGAQGAGGVLF  
PFGRAGAPGPGGSDLRREAAAEPRDARTGWPEEPAPETQFKRRSCQMEFEEGMVEGR  
ARGEELAALGKQASFSGSVEVIEVS

>sp|Q99956|DUS9\_HUMAN Dual specificity protein phosphatase 9 OS=Homo sapiens GN=DUSP9  
PE=1 SV=1

MEGLGRSCLWLRRELSPPRPRLLLLDCRSRELYESARIGGALSVALPALLLRRLRRGSLS  
VRALLPGPPLQPPPPAPVLLYDQGGGRRRRGEAEAEAEWEAESVLGTLQLKREEGYLA  
YYLQGGSFRFQAECPHLCETSLAGRAGSSMAPVPGVPVVGSLCLGSDCSDAESEADR  
DSMSCGLDSEGATPPPVGLRASFPVQILPNLYLGSARDSANLESLAKLGIRYILNVT  
PNL PNF FEKNGDFHYKQIPISDHSQNL SRFFPEAIEFIDEALSQNCGVLVHCLAGVSR  
SVTV TVAYLMQKLHLSLNDAYDLVKRKKSNISPNFNFMGQLLDFERSLRLEERHSQEQ  
SGGQA SAASNPPSFFTTPTSDGAFELAPT

>sp|Q9NR20|DYRK4\_HUMAN Dual specificity tyrosine-phosphorylation-regulated kinase 4  
OS=Homo sapiens GN=DYRK4 PE=1 SV=2

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AELWFLGLEAKKLDTAPEKFSKTSFDDEHGFYLVKVLHDHIAIRYEVLETIGKGSFGQVAK  
CLDHKNNELVALKII RNKKRFHQQALMELKILEALRKKDKDNTYNVVMKDDFFYFRNHFC  
ITFELLGINLYELMKNNNFGFSLSIVRRFTLSVLKCLQMLSVEKIIHCDLKPENIVLYQ  
KGQASVKVIDFGSSCYEHQKVYTYIQSRFYRSPEVILGHPYDVAIDMWSLGCITAE  
LYTG YPLFPGENEVEQLACIMEVLGLPPAGFIQTASRRQTFFD SKGFKNITNNRGKKR  
YPDSK DLTVMVLTQYDTSFLDFLRRLCLWPEPSLRMTPDQALKHAWIHQSRNLKQPRPQTLRKSNS  
FFPSETRKDKVQGCHSSRKADEITKETTEKTKDSPTKHVQHSGDQDCLQHGADTVQLP  
QLVDAPKKSEAAVGAEVSMTPSGQSKNFS LKNTNVLPPIV

>sp|Q86Y13|DZIP3\_HUMAN E3 ubiquitin-protein ligase DZIP3 OS=Homo sapiens GN=DZIP3 PE=1  
SV=2

MDSL PDEFFVRHPAVEDQRKEETENKLEKSSGQLNKQENDIPTDLVPVNLLEVKLLNA  
INTLPKGVVPHIKKFLQEDFSFQTMQREVAANSQNGEEIVPALTLRFLITQLEAALRN  
IQ AGNYTAHQINIGYYLTLLFLYGVALTERGKKEDYTEAENKFLVMKMMIQENEICENFMSL  
VYFGRGLLRCAQKRYNGGLLEFHKSLQEIGDKNDHWFDIDPTEDEDLPTTFKDLLNFIK  
TTESNIMKQTICSYLDCERSCEADILKNTSYKGFFQLMCSKSCCVYFHKICWKKFKNLKY  
PGENDQSFSGKKCLKEGCTGDMVRMLQCDVPGIVKILFEVVRKDEYITITENLGASYRKL  
I SLKITDTDIRPKISLKFNTKDEMPIFKLDYNYFYHLLHIIISGTDIVRQIFDEAMP  
PPL LKKELLHKNVLESYYNHLWTNHPGGSWHLLYPPNKELPQSKQFDLCLLLALIKHLNVF  
PAPKKGWNMEPPSSDISKSADILRLCKYRDILLSEILMNGLTESQFNSIWKKVSDILLRL

GMMQEDIDKVKENPIENISLDYHQLSVYLGIPVPEIIQRMLSCYQQGIALQSITGSQRIE  
IEELQNEEEELSPPLMEYNINVKSHPEIQFAEINKDGTSSIPSESSTESLKDLEVKSKQR  
KKKKTNNKKNKSKEDQVPYVVEKEEQLRKEQANPHSVSRLIKDDASDVQEDSAMEDKFY  
SLDELHILDMIEQGSAGKVTTDYGETEKERLARQRQLYKLHYQCEDFKRQLRTVTFRWQE  
NQMQIKKKDKIIASLNQQVAFGINVKSLQRQIHAKDNEIKNLKEQLSMKRSQWEMEKN  
LESTMKYVSKLNAETSRALTAEVYFLQCRDFGLLHLEQTEKECLNQLARVTHMAASNL  
ESLQLKAAVDSWNAIVADVRNKIAFLRTQYNEQINKVKQGFALSTLPPVQLPPPPPSPEI  
LMQQFLGRPLVKESFFRPILTVPQMPAVCPGVVSATGQPRAPLMTGIAWALPAPVGDAVP  
PSAGLRSDPSIMNWERITDRLKTAFFPQQTRKELTDFLRKLKDAYGKSLSELTDEIVCKI  
SQFIDPKKSQSQGKSVSNVNCVSPSHSPSPDAAQPPKPAWRPLTSQGPATWEGASNPDE  
EEEEEEPCVICHENLSPENLSVLPCAHKFHAQCIRPWLMMQGGTCPTCRLHVLLPEEFPGH  
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>sp|Q15329|E2F5\_HUMAN Transcription factor E2F5 OS=Homo sapiens GN=E2F5 PE=1 SV=1

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CNTKEVIDRLRYLKAEIEDLELKERELDQQKLWLQQSIKNVMDDSINNRF SYVTHEDICN  
CFNGDTLLAIQAPSGTQLEVIPMEMGQNGQKKYQINLKS HSGPIHVLLINKESSSKPVV  
FPVPPDDLTPSSQSLTPVTPQKSSMATQNLPEQHV SERSQALQQT SATDISSAGSISG  
DIIDELMSSDVFLLRLSPTPADDYNFNLDNEGVCDFDVQILNY

>sp|O43491|E41L2\_HUMAN Band 4.1-like protein 2 OS=Homo sapiens GN=EPB41L2 PE=1 SV=1

MTTEVGSVSEVKDSSQLGTDATKEKPKEVAENQQNQSSDPEEEKGSQPPPAESQSSLR  
RQKREKETSESRGISRFIPWLLKKQKSYTLVVAKDGGDKKEPTQAVVEEQVLDKEEPLPE  
EQRQAKGDAEEMAQKKQEKIVEVKEEKPSVSKEEKPSVSKVEMQPTELVSKEREKVKET  
QEDKLEGGAAKRETKEVQTNELKAEKASQKVTKTKTVCKVTLLDGTEYSCDLEKHAKG  
QVLFDKVCEHLNLEKDYFGLLFQESPEQKNWLDPAKEIKRQLRNLPWLFTFNVKFYPPD  
PSQLTEDITRYFLCLQLRQDIASGR LPCSFVTHALLGSYTLQAE LGDYDPEEHG SIDLSE  
FQFAPTQTKELEEKVAELHKTHRGLSPAQADSQFLEN AKRLSMYGVDLH HAKDSEGVDIK  
LGVCANGLLIYKDRLRINRFAWPKILKISYKRSNFYIKVRPAELEQFESTIGFKLPNHRA  
AKRLWKVCVEHHTFYRLVSPEPPKAKFLTLGSKFRYSGRTQAQTRQASTLIDRPAPHFE  
RTSSKRVSRLDGAPIGVMDQSLMKDFPGAAGEISAYGGLVSI AVVQDGDGRREVR SPT  
KAPHLQLEGGKNSLRVEGDNIYVRHNLMLEELDKAQEDILKHQASISELKRNFMESTP  
EPRPNEW EKRRITPLSLQTQSSHETLNIVEEKKRAEVGKDERVITEEMNGKEISPGSGP  
GEIRKVEPVTQKDSTLSSESSSSSSSESEEDVGEYRPHHRVTEGTIREEQEYEEEEVEE  
PRPAAKVVEREEAVPEASPVTAQASVITVETVIQENVGAQKIPGEKSVHEGALKQDMGE  
EAEEEPQKVNGEVSHVDIDLVPQIICCSEPPVVKTEMVTISDASQRTEISTKEVP IVQTE  
TKTITYESPQIDGGAGGDSGTLTAQTITSESVSTTTTTHITKTVKGGISETRIEKRIVI  
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>sp|P43004|EAA2\_HUMAN Excitatory amino acid transporter 2 OS=Homo sapiens GN=SLC1A2 PE=1  
SV=2

MASTEGANNMPKQVEVRMHDSLHGSEEPKHRHLGLRLCDKLGKNLLLTITVFGVILGAVC  
GGLRLASPIHPDVVMLIAFP GDILMRMLKMLILPLIISSLITGLSGLDAKASGR LGTRA  
MVYYMSTTIIAAVLGVILVLAIHGPNPKLKKQLGPGKKNDEVSSLD AFLDLIRNLPENL  
VQACFQQIQTVTKKVLVAPPPDEEANATSAVV SLLNETVTEVPEETKMVIKKGLEFKDGM  
NVLGLIGFFIAFGIAMGKMGDQAKLMVDFFNILNEIVMKLVIMIMWYSPLGIACLICGKI



IAIKDLEVVARQLGMYMVTVIIGLIIHGGIFLPLIYFVTRKNPFSFFAGIFQAWITALG  
TASSAGTLPVTRFRCLEENLGIDKRVTRFVLPVGATINMDGTALYEAVAAIFIAQMNGVVL  
DGGQIVTVSLTATLASVGAASIPSAGLVTMLLILTAVGLPTEDISLLVAVDWLLDRMRTS  
VNVVGSFSGAGIVYHLSKSELDTIDSQHRVHEDIEMTKTQSIYDDMKNHRESNSNQCVYA  
AHNSVIVDECKVTLAANGKSADCSVEEEPWKREK

>sp|P48664|EAA4\_HUMAN Excitatory amino acid transporter 4 OS=Homo sapiens GN=SLC1A6 PE=2  
SV=1

MSSHGNSLFLRESGQRLGRVGLQRLQESLQQRALRTRLRLQTMLEHVLRFLLRRAFIL  
LTVSAVVIGVSLAFALRPYQLTYRQIKYFSFPGELLMRMLQMLVLPLIVSSSLVTGMASLD  
NKATGRMGMAAVYYMVTIIIAVFIGILMVTIIHPGKSKEGLHREGRIETIPTADAFMD  
LIRNMFPPNLVEACFKQFKTQYSTRVVTRTMVRTENGSEPGASMPPPFSVENGTSFLENV  
TRALGTLQEMLSFEETVPVPGSANGINALGLVVFSVAFGLVIGGMKHKGRVLRDFFDSL  
EAIMRLVGIIIWYAPVGILFLIAGKILEMEDMAVLGGQLGMYTLTVIVGLFLHAGIVLPL  
IYFLVTHRNPFPFIGGMLQALITAMGTSSSSATLPITFRCLEEGLGVDRRITRFVLPVGA  
TVNMDGTALYEALAAIFIAQVNNYELNLGQITTISITATAASVGAAGIPQAGLVTMVIVL  
TSVGLPTEDITLIIAVDWFLDRLRTMTNVLGDSIGAAVIEHLSQRELELQEAELTLPSLG  
KPYKSLMAQEKGASRGRGGNESAM

>sp|P42892|ECE1\_HUMAN Endothelin-converting enzyme 1 OS=Homo sapiens GN=ECE1 PE=1 SV=2

MRGVWPPPVSAALLSALGMSTYKRATLDEEDLVDSLSEGDAYPNGLQVNFHSPRSGQRCWA  
ARTQVEKRLVVLVLLAAGLVACLAALGIQYQTRSPSVCLSEACVSVTSSILSSMDPTVD  
PCHDFFSYACGGWIKANVPDGHSRWGTFSNLWEHNQAI IKHLLNSTASVSEAERKAQV  
YYRACMNETRIEELRAKPLMELIERLGGWNITGPWAKDNFQDTLQVVTAHYRTSPFFSVY  
VSADSKNSNSNVIQVDQSGGLPSRDYYLNKTENEKVLTYLNYMVQLGKLLGGGDEEAI  
RPQMQLILDFETALANITIPQEKRRDEELIYHKVTAAELQTLAPAINWLPFLNTIFYPVE  
INESEPIVVYDKEYLEQISTLINTDRCLLNNYMIWNLVKRTSSFLDQRFQDADEKFMEV  
MYGTTKTCPLRWKFCVSDTENNLGFALGPMFVKATFAEDSKSIATEIILEIKKAFEEELS  
TLKWMDEETRKSAREKADAIYNMIGYPNFIMDPKELDKVFNDYTAVPDLYFENAMRFFNF  
SWRVTADQLRKAPNRDQWSMTPPMVNAYYSPTKNEIVFPAGILQAPFYTRSSPKALNFGG  
IGVVVGHELTHAFDDQGREYDKDGNLRPWWKNSSVEAFKRQTECMVEQYSNYSVNGEPVN  
GRHTLGENIADNGGLKAAYRAYQNWVKNNGAEHSLPTLGLTNNQLFGLGFAQVWCSVRTP  
ESSHEGLITDPHSPSRFRVIGSLSNSKEFSEHFRCPGSPMNPCHKCEVW

>sp|Q9UI46|DNAI1\_HUMAN Dynein intermediate chain 1, axonemal OS=Homo sapiens GN=DNAI1  
PE=1 SV=1

MIPASAKAPHKQPHKQSIISIGRGRKRDEDSGTEVGEGTDEWAQSKATVRPPDQLELTD  
ELKEEFTRILTANNPHAPQNIYRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKDSDEGR  
QHYRDELVAGSQESVKVISETGNLEEDEEPKELETEPGSQTDVPAAGAAEKVTEELMTP  
KQPKERKLTNQFNFSERASQTYNNPVRDRECQTEPPPRTNFSATANQWEIYDAYVEELEK  
QEKTEKEKAKTPVAKKSGKMAMRKLTSMESQTDDLKLSQAAKIMERMVNQNTYDDIAQ  
DFKYDDAADEYRDQVGTLLPLWKFNQDKAKRLSVTALCWNPKYRDLFAVGYSYDFMKQ  
SRGMLLLYSLKNPSFPEYMFSSNSGVMCLDIHVDHPYLVAVGHYDGNVAIYNLKKPHSQP  
SFCSSAKSGKHSDPVWQVQKQDDMDQNLNFFSVSSDGRIVSWTLVKRKLVIDVVKLV  
EGSTTEVPEGLQLHPVCGTAFDFHKEIDYMFVLVGTTEGKIYKCSKSYSSQFLDTYDAHN  
MSVDTVSWNPYHTKVFMSCSSDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAA  
VTTDGKAHIFDLAINKYEAICNQPVAAKKNRLTHVQFNLIHPIIIIVGDDRGHIISLKLSP

NLRKMPKEKKGQEVQKGPAVEIAKLDKLLNLVREVKIKT

>sp|Q9GZS0|DNAI2\_HUMAN Dynein intermediate chain 2, axonemal OS=Homo sapiens GN=DNAI2  
PE=1 SV=2

MEIVVYVYKKRSEFGKQCNFSDRQAE LNIDIMPNELAEQFVERNPDVTGIQCSISMSEH  
EANSERFEMETRGNVHVEGGWPKDVNPLELEQTIRFRKKVEKDENVVNAIMQLGSIMEHC  
IKQNNADIYEEYFNDEEAMEVMEEDPSAKTINVFRDPQEIKRAATHLSWHPDGNRKLAV  
AYSCLDFQRAPVGMSSDSYIWDLENPNKPELALKPSSPLVTLEFNPKDSHVLLGGCYNGQ  
IACWDRKGS LVAELSTIESSHRDPVYGTIWLQSKTGTECF SASTDGQVMWWDIRKMSEP  
TEVVILDITKKEQLENALGAISLEFESTLPTKFMVGTEQGIVISCNRAKTSAEKIVCTF  
PGHHGPIYALQRNPFYPKNFLTVDGWTARIWSEDSRESSIMWTKYHMAYLTDAWSPVRP  
TVFFTTRMDGTLDI WDFMFEQCDPTLSLKV CDEALFCLRVQDNGCLIACGSQLGTTTLL E  
VSPGLSTLQRNEKNVASSMERETRREKILEARHREMRLKEKGKAEGRDEEQTDEELAVD  
LEALVSKAEEEFFDIIFAELKKKEADA IKLTPVPQQPSPEEDQVVEEGEEAAGEEGDEEV  
EEDLA

>sp|Q9H4B8|DPEP3\_HUMAN Dipeptidase 3 OS=Homo sapiens GN=DPEP3 PE=2 SV=2

MQPTGREGSRALSRRYLRRLLLLLLLLLLLLLRQPVTRAETTPGAPRALSTLGSPSLFTTPGV  
PSALTTPGLTTPGTPKTLDLRGRAQALMRSFPLVDGHNDLPQVLRQRYKNVLQDVNLRNF  
SHGQTS LDRLDGLVGAQFWSASVSCSQSQDTAVRLALEQIDL IHRMCASYSELELVTSA  
EGLNSSQKLACLIGVEGGHSLDSSLVLR SFYVLGVRYLTLTFTCSTPWAESSTKFRHHM  
YTNVSGLTSFGEKVVEELNRLGMMIDLSYASDTLIRR VLEVSQAPVIFSHSAARAVCDNL  
LNVPDDILQLLKKNGGIVMVTLSMGVLQC NLLANVSTVADHFDHIRAVIGSEFIGIGNY  
DGTGRFPQGLEDVSTYPV LIEELLSRSWSEELQGVLRGNLLRVFRQVEKVREESRAQSP  
VEAEFPYGQLSTSCHSHLVPQNGHQATHLEVTKQPTNRVPWRSSNASPYLVPGLVAAATI  
PTFTQWLC

>sp|Q92782|DPF1\_HUMAN Zinc finger protein neuro-d4 OS=Homo sapiens GN=DPF1 PE=1 SV=2

MGGLSARPTAGRTDPAGTCWGQDPGSKMATVIPGPLSLGEDFYREAIEHCRSYNARLCAE  
RSLRLPFLDSQTGVAQNNCYIWM EKTHRGPGLAPGQIYTYPARCWRKKRRLNILEDPRLR  
PCEYKIDCEAPLKKEGGLPEGPVLEALLCAETGEKKIELKEEETIMDCQKQQLLEFP HDL  
EVEDLEDDIPRRKNRAKGKAYIGGLRKRQDTASLEDRDKPYVCDK FYKELAWVPEAQRK  
HTAKKAPDGTVIPNGYCDFCLGGSKKTGCPEDLISCADCGRSGHP SCLQFTVNMTAAVRT  
YRWQCIECKSCSLCGTSENDGASWAGLTPQDQLLFCDDCDRGYHMYCLSPPM AEPPEGSW  
SCHLCLRHLKEKASAYITLT

>sp|Q9BZG8|DPH1\_HUMAN Diphthamide biosynthesis protein 1 OS=Homo sapiens GN=DPH1 PE=1  
SV=2

MRRQVMAALVVS GAAEQGGRDGPGRGRAPGRVANQIPPEILKNPQLQAAIRVLP SNYNF  
EIPKTIWRIQQAQAKKVALQMPEGLLLFACTIVDILERFTEAEVMVMGDV TYGACCVDDF  
TARALGADFLVHYGHSLIPMDTSAQDFRVLVVFVDIRIDTTHLLDSLRLTFPPATALAL  
VSTIQFVSTLQAAAQELKAEYRVSV PQCKPLSPGEILGCTSPRLSKEVEAVVYLG DGRFH  
LESVMIANPNVPAYRYDPYSKVL SREHYDHQRMQAARQEATATARS AKSWG LILGTLGRQ  
GSPKILEHLESRLRALGLSFVRLL LSEIFPSKLSLLPEVDVWVQVACPRLSIDWGTA FPK  
PLLTPYEAAVALRDISWQQPYPMDFYAGSS LGPWTNVHGQDRRPHAPGRPAR GKVQEGSA  
RPPSAVACEDCSCRDEKVAPLAP

>sp|Q7L8W6|DPH6\_HUMAN Diphthine--ammonia ligase OS=Homo sapiens GN=DPH6 PE=1 SV=3

MRVAALISGGKDSYNNMQCIAAGHQIVALANLRPAENQVGSDELDSYMYQTVGHHAIDL

YAEAMALPLYRRTIRGRSLDTRQVYTKCEGDEVEDLYELLKLVEKEEEVEGISVGAILSD  
YQIRIRVENVCKRLNLQPLAYLWQRNQEDLLREMISSNIQAMIKVAALGLDPDKHLGKTL  
DQMEPYLIELSKKYGVHVCGEYETFTLDCPLFKKKIIVDSSEVVIHSADAFAPVAYL  
RFLELHLEDKVSSVPDNYRTSNYIYNF

>sp|Q9P2X0|DPM3\_HUMAN Dolichol-phosphate mannosyltransferase subunit 3 OS=Homo sapiens  
GN=DPM3 PE=1 SV=2

MTKLAQWLWGLAILGSTWVALTTGALGLELPLSCQEVLPAYLLVSAGCYALGTVGYS  
VATFHDCEDAARELQSQIQEARADLARRGLRF

>sp|Q9NRF9|DPOE3\_HUMAN DNA polymerase epsilon subunit 3 OS=Homo sapiens GN=POLE3 PE=1  
SV=1

MAERPEDLNLNAVITRIIKEALPDGVNISKEARSAISRAASVFLYATSCANNFAMKGK  
RKTLNASDVLSAMEEMEFQRFVTPKEALEAYRREQKGKKEASEQKKKDKDKKTDSEEQD  
KSRDEDNDEDEERLEEEEQNEEEVDN

>sp|Q9C005|DPY30\_HUMAN Protein dpy-30 homolog OS=Homo sapiens GN=DPY30 PE=1 SV=1

MEPEQMLEGQTQVAENPHSEYGLTDNVERIVENEKINAESKSKQKVDLQSLPTRAYLDQT  
VVPILLQGLAVLAKERPPNPIEFLASYLLKNKAQFEDRN

>sp|Q9BPU6|DPYL5\_HUMAN Dihydropyrimidinase-related protein 5 OS=Homo sapiens GN=DPYSL5  
PE=1 SV=1

MLANSASVRILIKGGKVVNDCTHEADVYIENGIIQQVGRELMPGGAKVIDATGKLVIP  
GGIDTSTHFHQTFMNATCVDDFYHGKAALVGGTTMIIGHVLPDKETSLVDAYEKCRLA  
DPKVCCDYALHVGITWWAPKVKAEETLVREKGVNSFQMFMTYKDLYMLRDSELYQVLHA  
CKDIGAIARVHAENGELVAEGAKEALDLGITGPEGIEISRPEELEAEATHRVITIANRTH  
CPIYLVNVSSISAGDVIAAAKMQGKVLAETTTAHATLTGLHYHQDWSHAAAYVTPPL  
RLDTNTSTYLSLLANDTLNIVASDHRPFTTKQKAMGKEDFTKIPHGVSQVQDRMSVIWE  
RGVVGKMDENRFVAVTSSNAKLLNLYPRKGRIIPGADADVVDPEATKTISASTQVQ  
GGDFNLYENMRCHGVPLVTISRGRVYENGVMCAEGTGKFCPLRSFPDVTYKKLVQREK  
TLKVRGVDRTPYLGDVAVVHPGKKEMGTPLADTPTRPVTRHGMRLHESSFSLSGSQI  
DDHVPKRASARILAPPGRRSSGIW

>sp|P01906|DQA2\_HUMAN HLA class II histocompatibility antigen, DQ alpha 2 chain OS=Homo  
sapiens GN=HLA-DQA2 PE=1 SV=2

MILNKALLLGALALTAVMSPCGGEDIVADHVASYGVNFYQSHGPSGQYTHEFDGDEEFYV  
DLETKETVWQLPMFSKFISFDPQSALRNMAVGKHTLEFMMRQSNSTAATNEVPEVTVFSK  
FPVTLGQPNTLICLDNIFPPVVNITWLSNGHSVTEGVSETSFLSKSDHSFFKISYLTFL  
PSADEIYDCKVEHWGLDEPLLKHWPEIPAPMSELTETLVCALGLSVGLMGIVVGTVFII  
QGLRSVGASRHQGLL

>sp|P01920|DQB1\_HUMAN HLA class II histocompatibility antigen, DQ beta 1 chain OS=Homo  
sapiens GN=HLA-DQB1 PE=1 SV=2

MSWKKALRIPGGLRAATVTLMLAMLSTPVAEGRDSPEDFVYQFKAMCYFTNGTERVRYVT  
RYIYNREEYARFDSDEVYRAVTPLGPPDAEYWNQKEVLERTRAELDTVCRHNYQLELR  
TTLQRRVEPTVTISPRTEALNHHNLLVCSVTDFYPAQIKVRWFRNDQEETTGVVSTPLI  
RNGDWTFQILVMLEMTPQHGDVYTCHVEHPSLQNPITVEWRAQSESAQSKMLSGIGGFVL  
GLIFLGLGLIIHHRQKGLLH

>sp|Q6UX65|DRAM2\_HUMAN DNA damage-regulated autophagy modulator protein 2 OS=Homo sapiens  
GN=DRAM2 PE=1 SV=1

MWWFQQGLSFLPSALVIWTSAAFIFS YITAVTLHHIDPALPYISDTGTVAPEKCLFGAML  
NIAAVLCIATIYVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA  
HVSGAVLTFGMGSLYMFVQTILSYQM QPKIHGKQVFWIRLLLVIWCGVSALSMLTCSVL  
HSGNFGTDLEQKLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLT YIRDFQKISLRVEAN  
LHGLTLYDTAPCPINNERTRLLSRDI

>sp|Q30154|DRB5\_HUMAN HLA class II histocompatibility antigen, DR beta 5 chain OS=Homo sapiens GN=HLA-DRB5 PE=1 SV=1

MVCLKLPGGSYMAKLTVTLMVLSSPLALAGDTRPRFLQQDKYECFFNGTERVRFLHRDI  
YNQEEDLRFDSVGEYRAVTELGRPDAEYWNSQKDFLEDRAAVDTYCRHNYGVGESFTV  
QRRVEPKVTVYPARTQTLQHNNLLVCSVNGFYPGSIEVRWFRNSQEEKAGVVSTGLIQNG  
DWTFTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRAQSESAQSKMLSGVGGFVLGGL  
FLGAGLFIYFKNQKGHSGHLPTGLVS

>sp|P14416|DRD2\_HUMAN D(2) dopamine receptor OS=Homo sapiens GN=DRD2 PE=1 SV=2

MDPLNLSWYDDDLERQNSRPFNGSDGKADRPYNYATLLTLLIAVIVFGNVLVCMAS  
REKALQTTTNYLIVSLAVADLLVATLVMPWVVYLEVVGWKF SRIHCDIFVTLDMMCTA  
SILNLCAISIDRYTAVAMPMLYNTRYSSKRRVTVMISIVWVLSFTISCPLL FGLNNADQN  
ECIIANPAFVYSSIVSFYVPFIVTLLVYIKIYIVLRRRRKR VNTKRSSRAFRAHLRAPL  
KGNCTHPEDMKLCTVIMKSNGSFPVNRRRVEAARRAQELEM EMLSSTSPPERTRYSPIPP  
SHHQLTLPDP SHHGLHSTPDSPAKPEKNGHAKDHPKIAKIFEIQTMPNGKTRTSLKTMSR  
RKLSQQKEKKATQMLAIVLGVIICWLPFFITHILNIHCD CNIPPVLYSAFTWLGYNVSA  
VNPIIYTTFNIEFRKAFLKILHC

>sp|P21917|DRD4\_HUMAN D(4) dopamine receptor OS=Homo sapiens GN=DRD4 PE=1 SV=2

MGNRSTADADGLLAGRGAAGASAGASAGLAGQGAAALVGGVLLIGAVLAGNSLVCVSA  
TERALQTPNSFIVSLAAADLLLALLVLPLFVYSEVQGGAWLLSPRLCDALMAMDVMLCT  
ASIFNLCAISVDRFVAVAVPLRYNRQGGSRRLLLIGATWLLSAVAAPVLCGLNDVRGR  
DPAVCRLED RDYVVYSSVCSFPLPCPLMLLLYWATFRGLQRWEVARRAKLHGRAPRRPSG  
PGPPSPTPPAPRLPQDPCGPDCAAPGLPRGPCGPDCAAPGLPPDPCGPDCAAPAG  
LPQDPCGPDCAAPGLPRGPCGPDCAAPGLPQDPCGPDCAAPGLPPDPCGSNCAP  
PDAVRAAALPPQTPPQTRRRRRRAKITGRERKAMRVLPVVVGAFLLCWTPFFV V HITQALC  
PACSVPPRLVSAVTWLGYNVNSALNPVIYTVFNAEFRNVFRKALRACC

>sp|P21918|DRD5\_HUMAN D(1B) dopamine receptor OS=Homo sapiens GN=DRD5 PE=1 SV=2

MLPPGNGTAYPGQFALYQQLAQGNVAGGSAGAPPLGPSQVVTACLLTLLI IWTLLGNVL  
VCAAIVRSRHLRANMTNVFIVSLAVSDFVALLVMPWKAVA EVAGYWPFGAFCDVWVAFD  
IMCSTASILNLCVISVDRYWAISRPFYKRMKTQRMALVMVGLAWTSLISISFIPVQLNW  
HRDQAASWGGLDLNNLANWTPWEEDFWEPDVNAENDSSLNRTYAISSSLISFYIPVAI  
MIVTYTRIYRIAQVQIRRISSLERAAEHAQSCRSSAACAPDTS LRASIKKETKVLKTL SV  
IMGV FVCCWLPFFILNCMPFCSGHPEGPPAGFPCVSETTFDVFVWFGWANSSLN PVIYA  
FNADFQKVFAQLLGCSHFCSRTPVETVNISNELISYNQDIVFHKEIAAAYIHMPNAVTP  
GNREVDNDEEGPFDRMFQIYQTS PDGPVAESVWELDC EGEISLKITPFTPNGFH

>sp|Q6B8I1|DS13A\_HUMAN Dual specificity protein phosphatase 13 isoform A OS=Homo sapiens GN=DUSP13 PE=1 SV=1

MAETSLPELGGEDKATPCPSILELEELLRAGKSSCSR VDEVWPNLFIGDAATANNRFELW  
KLGITHVLNAAHKGLYCQGGPDFYGSSVSYLGVP AHDLPDFDISAYFSSAADFIHRA LNT  
PGAKVLVHCVVGVSRSATLVLAYLMLHQRLSLRQAVITVRQHRWVFPNRGFLHQLCRLDQ

QLRGAGQS

>sp|C9JQL5|DSA2D\_HUMAN Putative dispanin subfamily A member 2d OS=Homo sapiens PE=5 SV=1  
MNHTVQTFFSPVNSGQPPNYEMLKEEHKVAVLGVPHNPAPTSTVIHIRSKTSVPHHVW  
SLFNTLFMNPCCLGFI AFAYSVKSRDRKMVGNTGAQAYASTTKCLNIWALILGILMTIL  
LIIIPVLIFQHR

>sp|O14972|DSCR3\_HUMAN Down syndrome critical region protein 3 OS=Homo sapiens GN=DSCR3  
PE=2 SV=1

MGTALDIKIKRANKVYHAGEVLSGVVVISKDSVQHGVSLTMEGTVNLQLSAKSVGFE  
AFYNSVKPIQIINSTIEMVKPGKFPSPGKTEIPFEFPLHLKGNKVLTYTYHGVFVNIQYTL  
RCDMKRSLAKDLTKTCEFIHVSAPQKGKFTSPVDFTITPETLQNVKERALLPKFLLRG  
HLNSTNCVITQPLTGELVVESEAAIRSVELQLVRVETCGCAEGYARDATEIQNIQIADG  
DVCRLSVPIYMFPRFLTCTLTETTNFKVEFEVNIVLLHPDHLITENFPLKLCRI

>sp|Q9H410|DSN1\_HUMAN Kinetochore-associated protein DSN1 homolog OS=Homo sapiens GN=DSN1  
PE=1 SV=2

MTSVTRSEI IDEKGPVMSKTHDHQLESSLPVEVFAKTSASLEMNQGVSEERIHLGSSPK  
KGGNCDLSHQRQLQSKSLHLSPQEQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITEL  
SRSISVDLAESKRLGCLLLSSFQFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFAD  
GLETDTLQKCFEDSNGKASDFSLEASVAEMKEYITKFSLERQTDQLLLHYQQEAKEIL  
SRGSTEAkitevkvEPMtyLGSSQNEVLNtkPDYQKILQNQSKVFDcmELVMDelQGSVK  
QLQAFMDESTQCFQKVSQVLGKRSMQQLDPSARKLLKLQLQNPPAIHSGSGSGSCQ

>sp|POCJ89|DU4L6\_HUMAN Double homeobox protein 4-like protein 6 OS=Homo sapiens GN=DUX4L6  
PE=3 SV=1

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSRQLRQHRRESRPWPGRGPPEGRRKRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRARHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSSQAARAAPALQPSQAAPAEGVSQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQQGGVLA  
PPTSQSGSPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASASARQQGMQGIAPSQALQ  
EPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEAASLEAPLSEEEYRAL  
LEEL

>sp|Q6XUX3|DUSTY\_HUMAN Dual serine/threonine and tyrosine protein kinase OS=Homo sapiens  
GN=DSTYK PE=1 SV=2

MEGDGVPWGSEPVSGPGPGGGGMIRELCRGFGYRRYLGRRLRQNLRETQKFFRDIKCSHN  
HTCLSSLTGCGGAERGPAGDVAETGLQAGQLSCISFPPKEEKYLQQIVDCLPCILILGQD  
CNVKCQLLNLLLGVQLPTTKLGSEESCKLRRLRFTYGTQTRVSLALPGQYELVHTLVAH  
QGNWETIPEEDLEVQENNEDAAHVLAEEVMTMHALLQEVDVVVAPCQGLRPTVDVLGDL  
VNDFLPVIITYALHKDELSEDEQELQEIRKYFSFPVFFKVPKLGSEIIDSSTRMESER  
SPLYRQLIDLGYLSSSHWNCGAPGQDTKAQSMLEQSEKLRHLSTFSHQVLQTRLVDAAK  
ALNLVHCHCLDIFINQAFDMQRDLQITPKRLEYTRKKENELYESLMNIANRKEEMKDMI  
VETLNTMKEELLDDATNMEFKDIVPENGEVGTREIKCCIRQIQELIISRLNQAVANKL  
ISSVDYLRESFVGTLERCLQSLEKSQDVSVHITSNYLKQILNAAHYHEVTFHSGSSVTRM  
LWEQIKQIIQRITWVSPPAITLEWKRKVAQEATESLSASKLAKSICSQFRTRLNSSHEAF  
AASLRQLEAGHSGRLEKTEDLWLRVRKDHAPRLARLSLESCSLQDVLLHRKPKLGQELGR  
GQYGVVYLCDNWGGHFPALKSVVPPDEKHWNDLAEFHMYMRSLPKHERLVDLHGSVIDY

NYGGSSIAVLLIMERLHRDLTYGLKAGLTLETRLQIALDVVEGIRFLHSQGLVHRDIKL  
KNVLLDKQNRKITDLGFCCKPEAMMSGIVGTPIHMAPELFTGKYDNSVDVYAFGILFWY  
ICSGSVKLPEAFERCASKDHLWNNVRRGARPERLPVFDEECWQLMEACWDGDP LKRPLLG  
IVQPM LQGIMNRLCKSNSEQPNRGLDDST

>sp|Q96IM9|DYDC2\_HUMAN DPY30 domain-containing protein 2 OS=Homo sapiens GN=DYDC2 PE=2  
SV=1

METNYLKRCFCGNCLAQALAEVAKVRPSDPIEYLAHWLYHYRKTAKAKEENREKKIHLQEE  
YDSSLKEMEMTEMLKQEYQIQNCEKCHKELTSETVSTKKTIFMQEDTNPLEKEALKQE  
FLPGTSSLIPGMPQQVPPSESAGQIDQNFKMPQEINYKEAFQHEVAHEMPPGSKSPF

>sp|Q96DT5|DYH11\_HUMAN Dynein heavy chain 11, axonemal OS=Homo sapiens GN=DNAH11 PE=1  
SV=4

MAAQVAAREARDFREAPTLRLTSGAGLEAVGAVELEEEEEENEEAAARRARSFAQDARVR  
FLGGR LAMMLGFTEEKWSQYLESEDNRQVLGEFLESTSPACLVFSFAASGR LAASQEIPR  
DANHKL VFISSKITESIGVNDFSQVVLFGELPALSLGHVSAFLDEILVPVLSNKNHKS  
SCFTSQDMEYHIEVMKKMYIFRGKMSRRTLLPIPTVAGKMDLDQNCSENKPPSNERIIL  
HAIESVVIEWSHQIQEI IERDSVQRLLNGLHLSPPQAELDFWMMRRENLS CIYDQLQAPVV  
LKMVKILT TTKSSYFPTLKDIFLAVENALLEAQDVELYLRPLRRHIQCLQETEFPPQTRIL  
IAPLFHTICLIWSHSKFYNTPARVIVLLQEF CNLFINQATAYLSPEDLLRGEIEESLEKV  
QVAVNILKTFKNSFFNYRKKLAS YFMGRKLRPWDFQSHLVFCRFDKFLDRLIKIEDIFAT  
TLEFEKLERLEFGGTGAILNGQVHEMSEELMELCKLFKQSTYDPSDCTNMEFESDYVAF  
KSKTLEFDRRLGTII CEAFFNCNGLEAAFKLLTIFGNFLEKPVVMEIFSLHYSTLVHMFN  
TELDVCKQLYNEHMKQIECGHVVLNKNMPFTSGNMKWAQQVLQRLQMFWSNFASLRYLFL  
GNPDHALVYQKYVEMTLLDQFESRIYNEWKSNVDEICEFNLNQPLVKFSAINGLLCVNF  
DPKLVAVLREV KYLLMLKKQDIPDSALAI FKKRNTILKYIGNDLLVQGYNKLKQTLEEV  
EYPLIEDELRAIDEQLTAATTWLTWQDDCWGYIERVRAATSELEHRVERTQKNVKVIQQT  
MRGWARCVLPPRREHREAAFTLEDKGD LFTKKYKLIQGDGCKIHNLVEENRKL FKANPS  
LDTWKIYVEFIDDIVVEGFFQAIMHDLDFFLKNT EKQLKPAPFFQAQMILLPPEIVFKPS  
LDREAGDGFYDLVEEMLCNSFRMSAQMNR IATHLEIKNYQNDMDNMLGLAEVRQEIMNRV  
VNVINKVLDFRNTLEHTYLWDDRAEFMKHFLLYGHAVSSDEMDAHANEEIPEQPPTLE  
QFKEQIDIYEALYVQMSKFEDFRVFD SWFKVDMKPFKVSLLTIKKWSWMFQEHL LRFVI  
DSLNELQEFIKETD SGLQRELNEGHDGLVDIMVHLLAVRSRQRATDELFEPLKETITLL  
ESYGQKMPQVYIQLEELPERWETTKKIAATVRHEVSPLHNAEVT LIRKKCILFDAKQAE  
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>sp|Q9UFH2|DYH17\_HUMAN Dynein heavy chain 17, axonemal OS=Homo sapiens GN=DNAH17 PE=1 SV=2

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>sp|P63167|DYLI\_HUMAN Dynein light chain 1, cytoplasmic OS=Homo sapiens GN=DYNLL1 PE=1 SV=1

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>sp|Q8N1N2|DYNAP\_HUMAN Dynactin-associated protein OS=Homo sapiens GN=DYNAP PE=1 SV=1

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>sp|Q13627|DYR1A\_HUMAN Dual specificity tyrosine-phosphorylation-regulated kinase 1A  
OS=Homo sapiens GN=DYRK1A PE=1 SV=2

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>sp|Q9P2K8|E2AK4\_HUMAN eIF-2-alpha kinase GCN2 OS=Homo sapiens GN=EIF2AK4 PE=1 SV=3

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>sp|Q96AV8|E2F7\_HUMAN Transcription factor E2F7 OS=Homo sapiens GN=E2F7 PE=1 SV=3

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>sp|P24855|DNASE1\_HUMAN Deoxyribonuclease-1 OS=Homo sapiens GN=DNASE1 PE=1 SV=1

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>sp|Q8IYX4|DND1\_HUMAN Dead end protein homolog 1 OS=Homo sapiens GN=DND1 PE=1 SV=1

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>sp|Q8WW22|DNJA4\_HUMAN DnaJ homolog subfamily A member 4 OS=Homo sapiens GN=DNJA4 PE=1  
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>sp|Q8WXX5|DNJC9\_HUMAN DnaJ homolog subfamily C member 9 OS=Homo sapiens GN=DNJC9 PE=1  
SV=1

MGLLDLCCEVFGTADLYRVLGVRREASDGEVRRGYHKVSLQVHPDRVGEQDKEDATRRFQ  
ILGKVYSVLSDREQRAVYDEQGTVDSPVLTQDRDWEAYWRLLFKKISLEDIQAFEKTY  
KGSEELADIKQAYLDFKGDMDQIMESVLCVQYTEEPRIIRNIQQAIDAGEVPSYNAFVK  
ESKQKMNARKRRAQEAAEAMSRKELGLDEGVDSLKAAIQSRQKDRQKEMDNFLAQMEA  
KYCKSSKGGGKKSALKKEKK

>sp|Q6XZF7|DNMBP\_HUMAN Dynamin-binding protein OS=Homo sapiens GN=DNMBP PE=1 SV=1

MEAGSVVRAIFDFCPSVSEELPLFVGDIIEVLAVVDEFWLLGKKEDVTGQFPSSFVEIVT  
IPSLKEGERLFVCICEFTSQELDNPLHRGDLVILDGIPTAGWLQGRSCWGARGFFPSSC  
VRELCLSSQSRQWHSQSALFQIPEYSMGQARALMGLSAQLDEELDFREGDVITIIIGVPEP  
GWFEGELEGRRGIFPEGFVELLGPLRTVDESVSNGQDDCIVNGEVDTPVGEEIIGPDED  
EEEEPGTYGVALYRFQALEPNELDFEVGDKIRILATLEDGWLEGLKGRGTGIFPYRFVKLC  
PDTRVEETMALPQEGSLARIPETSLDCLENTLGVEEQRHETSDEAEEDPCIISEAPTSP  
LGHLTSEYDTRNSYQDEDTAGGPPRSPGVWEMPLATDSPTSDPTEVVNGISSQPQVPF  
HPNLQKSQYYSTVGSGPHSEQYPDLLPLEARTDYASLPKRMYSQKTLQKPVLPYR  
GSSVSASRVVKPRQSSPQLHNLASYTKKHHTSSVYSISERLEMKPGPQAQGLVMEAATHS  
QGDGSTDLDLQQLIEFEKSLAGPGTEPDKILRHFSIMDFNSEKDIVRGSSKLITEQE  
LPERRKALRPPPPRPTPVSTSPHLLVDQNLKPAPPLVVRPSRPAPLPSSAQQRNAVSP  
KLLSRHRPTCETLEKEGPGHMRSLDQTSPLVLVRIEEMERDLDMYSRAQEELNMLE  
EKQDESSRAETLEDLKFCESNIESLNMELQQLREMTLLSSQSSSLVAPSGSVSAENPEQR  
MLEKRAKVIIEELLQTERDYIRDLEMCIERIMVPMQQAQVPNIDFEGFNGMQMVIKVSQK  
LLAALEISDAVGPFVFLGHRDELEGTYKIYCNHDEAIALLEIYEKDEKIQKHLQDSLADL  
KSLYNEWGCTNYINLGSFLIKPVQVRMRYPLLLMELLNSTPESHDPKVPLTNAVLAKEI  
NVNINEYKRRKDLVLKYRKGDEDSLMEKISKLNHISI IKKSNRVSSHLKHLTGFAPIKD  
EVFEETEKNFMRERLIKSFIRDLSLYLQHIREACVKVVAAVSMWDVCMERGHRLDLEQF  
ERVHRYISDQLFTNFKERTERLVISPLNQLLSMFTGPHKLVQKRFDKLLDFYNCTERA  
EKLKDKTLEELQSARNNYEALNAQLDELKPFHQYAGLFTNCVHGAEAHCDFVHQAELQ  
LKPLL SLLKVAGREGNLIAIFHEEHSRVLQQLQVFTFFPESLPATKKPFERKTIDRQSAR  
KPLLGLPSYMLQSEELRASLLARYPPEKLFQAERNFNAAQDLVSLLEGDLVGVIKKKDP  
MGSQNRWLIDNGVTGKFVYSSFLKYPNPRRSHSDASVGSHTSEHGSPPRFRQNSG  
STLTFNPSSMAVSFTSGSCQKQPDASPPPKCEDQGTLSASLNPSNSESSPSRCPDPDS  
TSQPRSGDSADVARDVKQPTATPRSYRNRHPEIVGYSPGRNGQSQDLVKGCARTAQAP  
EDRSTPDGSEAEGNQVYFAVYTFKARNPNELSVSANQKLKILEFKDVTGNTEWWLAEVN  
GKKGYVPSNYIRKTEYT

>sp|Q96BY6|DOC10\_HUMAN Dedicator of cytokinesis protein 10 OS=Homo sapiens GN=DOCK10 PE=1 SV=3

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EKTYRNDPLQDLLFFPSDDFSAATVSWDIRTLYSTVPEDA EHKAENLLVKEACKFYSSQW  
HVVNYKYEQYSGDIRQLPRAEYKPEKLPSHSFEIDHEDADKDEDTTSHSSSKGGGAGGT  
GVFKSGWLYKGNFNTVNNTVTVRSFKRYFQLTQLPDNSYIMNFYKDEKISKEPKGCIF  
LDSC TGVVQNNRLRKYAFELKMNDLTYFVLAETESDMDEWIHTLNRILQISPEGPLQGR  
RSTELTDLGLDSLNSVTCECTPEETDSSENNLHADFAKYLTETEDTVKTTNRNMRNLNLF  
SLDPDIDTLKLQKKDLLEPESVIKPFEEKA AKRIMIICKALNSNLQGCVTENENDPITNI  
EPFFVSVALYDLRDSRKISADFHVDLNHAAVRQMLLGASVALENGNIDTITPRQSEEPHI  
KGLPEEWLKF PKQAVFSVSNPHSEIVLVAKIEKVL MGNIASGAEPYIKNPDSNKYAQKIL  
KSNRQFCSKL GKRYMPFAWAVRSVFKDNQGNVDRSRFSPLFRQESSKISTEDLVKLVSD  
YRRADRISKMQTIPGSLDIAVDNVPLEHPNCVTSSFIPVKPFNMMAQTEPTVEVEEFVYD  
STKYCRPYRVYKNQIYIYPKHLKYDSQKCFNKARNITVCIEFKNSDEESAKPLKCIYKGP  
GGPLFTSAAYTAVLHHSQNPDFSDEVKIELPTQLHEKHHLFSFYHVTCDINAKANAKKK  
EALETSGYAWLPLMKHDQIASQEYNIPIATSLPPNYLSFQDSASGKHGGSDIKWVDGGK

PLFKVSTFVVSTVNTQDPHVNAFFQECQKREKMSQSPTSNFIRSCKNLLNVEKIHAIMS  
FLPIILNQLFKVLVQNEEDEITTTVTRVLTDIVAKCHEEQLDHSVQSYIKFVFKTRACKE  
RTVHEELAKNVTGLKSNSTTVKHVLKHSWFFFAIILKSMAQHLIDTNKIQLPRPQRF  
ESYQNELDNLVMLSDHVIWKYKDALEETRRANHSVARFLKRCFTFMDRGYVFKMVNNYI  
SMFSSGDLKTLQCYKFDFLQEVQHEHFIPLCPIRSANIPDPLTPSESTQELHASDMPE  
YSVTNEFCRKHFLIGILLREVGFALQEDQDVRHLALAVLKNLMAKHSFDDRYREPRKQAQ  
IASLYMPLYGMLLDNMPRIYKLDLPFTVNTSNQGSRDDSTNGGFQSQTAIKHANSVDT  
SFSKDVLSIAAFSSIAISTVNHADSRASLASLDSNPSTNEKSSEKTDNCEKIPRPLSLI  
GSTLRFDKLDQAETRSLLMCFHIMKTISETLIAYWQRAPSEVSDFFSILDVCLQNFR  
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LPIIRGKNALSNPKLLQMLDNTMTSNSNEIDIVHHVDTEANIMATEVCLTILDLLSLFTQT  
HQRQLQQCDCQNSLMKRVFDTYMLFFQVNSATALKHVFASLRFLVCKFPFAFFQGPADL  
CGSFCYEVLKCCNHRSRSTQTEASALLYFFMRKNFEFNKQKSIVRSHLQLIKAVSGLIAD  
AGIGGSRFQHS LAITNNFANGDKQMKNFNPAEVKDLTKRIRTVLMATAQMKEHEKDPEM  
LVLDQYSLANSYASTPELRRTWLESMAKIHARNGDLSEAAMCYIHIAALIAEYLKRKGYW  
KVEKICTASLLSETHPCDSNSLLTTPSGGSMFSGWPAFLSITPNIKEEGAMKEDSGMQ  
DTPYNENILVEQLYMCVEFLWKSEYELIADVKNPIIAVFEKQRDFKKLSLDLYDIHRSY  
LKVAEVVNSEKRLFGRYRVAFYGGFFEEEEGKEYIYKEPKLTGLSEISQRLLKLYADK  
FGADNVKIIQDSNKNPKDLDPKYAYIQVTYVTPFFEEKEIEDRKTD FEMHHNINRFVFE  
TPFTLSGKKHGGVAEQCKRRTILTSHLFPYVKKRIQVISQSSTELNPIEVAIDEMSKKV  
SELNQLCTMEEVDMIRLQLKLQGSVSVKVNAGPMAYARAFLEETNAKKYPDQVKKLKEI  
FRQFADACGQALDVNERLIKEDQLEYQEELRSHYKDMLSELSTVMNEQITGRDDL SKRGV  
DQTCTRVISKATPALPTVSISSSAEV

>sp|Q8IZD9|DOCK3\_HUMAN Dedicator of cytokinesis protein 3 OS=Homo sapiens GN=DOCK3 PE=1  
SV=1

MWPTTEEEKYGVVICSFRGSVPQGLVLEIGETVQILEKCEGWYRGVSTKKPNVKGIFPAN  
YIHLKKAIVSNRGQYETVVPLEDSIVTEVTATLQEWASLWKQLYVKHKVDLFYKLRHVMN  
ELIDLRRQLLSGHLTQDQVREVKRHITVRLDWGNEHLGLDLVPRKDFEVVDSQISVSDL  
YKMHLSRQSVQSTSQVDTMRPRHGETCRMPVPHHFFLSLSFTYNTIGEDTDVFFSLY  
DMREGKQISERFLVRLNKNGGPRNPEKIERMCALFTDLSSKDMKRDLYIVAHVIRIGRML  
LNDSSKKGPPHLHYRRPYGCAVLSILDVLQSLTEVKEEKDFVLKVYTCNNESEWSQIHENI  
IRKSSAKYSAPSASHGLIISLQLLRGDMEQIRRENPMIFNRGLAITRKLGFDPVIMPGDI  
RNDLYLTLEKGD FERGGSVQKNIEVTMYVLYADGEILKDCISLGSGEPNRSSYHSFVLY  
HSNSPRWGEI IKLPIDFRFGSHLRFEFRHCTKDKGEKKLFGFAFSTLMRDDGTLS  
DIHEL VYKCDENSTFNNHALYGLPCKEDYNGCPNIPSSLIFQRSTKESFFISTQLSS  
TKLTQNVDLLALLKWKAFPDRIMDVLGRLRHVS GEEIVKFLQDILDTLFVILDDNTEKYG  
LLVFQSLVFIINLLRDIKYFHRPVMDTYIQKH FAGALAYKELIRCLKWYMDCSAELIRQ  
DHIQEAMRALEYLFKFIVQSRILYSRATCGMEEEQFRSSIQELFQSIRFVLSLDSRNSET  
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VDSRLFSFSESRRILLPVVLHHIHLHLRQQKELLICSGILGSIFSIVKTSSLEADVMEEV  
EMMVESLLDVLLQTLLTIMSKSHAQEA VRGQRCPQCTAEITGEYVSCLLSLLRQMC DTHF  
QHLLDNFQSKDELKEFLKIFCVFRNLKMSVFPRDWMVMRLTSNIIVTTVQYLSSALH  
KNFTETDFDFKVWNSYFSLAVLFINQPSLQLEIITS AKRKKILDKYGDMRVMMAYELFSM  
WQNLGEHKIHFIPGMIGPFLGVTLPQPEVRNIMIPIFHDMMDWEQRKNGNFKQVEAELI

DKLDSMVSEGGDESYRELFSLTLQLFPGPYPSLLEKVEQETWRETGISFVTSVTRLMERL  
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LLLYCELLQWEDRPLREFLHYPSTQTEWQRKEGLCRKI IHYFNKGKSWFEGIPLCRELACQ  
YESLYDYQSLSWIRKMEASYDNI MEQQRL EPEFFRVGFYGRKFPFFLRNKEYVCRGHDY  
ERLEAFQQRMLSEFPQAVAMQHPNHPDDAILQCDAQYLQIYAVTPIPDYVDVLQMDRVPD  
RVKSFYRVNNVRKFRYDRPFHKGPKDKENEFKSLWIERTTLTLTHSLPGISRWFEEVERRE  
LVEVSPLENAIQVVENKNQELRSLISQYQHKQVHGNI NLLSMCLNGVIDAAVNGGIARYQ  
EAFFDKDYINKHPGDAEKITQLKELMQEQVHVLGVGLAVHEKFVHPMRPLHKKLIDQFQ  
MMRASLYHEFPGLDKLSPACSGTSTPRGNVLASHSPMSPESIKMTHRHSPMNLMTGRHS  
SSSLSSHASSEAGNMVMLGDGSMGDAPEDLYHHMQLAYPNPRYQGSVTNVSVLSSSQASP  
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ENGQPPNFQRALFQQVVGACKPCSDPNLSVAEKGHYSLHFD AFHHPLGDTTPPALPARTLR  
KSPLHIPASPTSPQSGLDGSNSTLSGSASSGVSSLSSES NFGHSSEAPPRDTMTDSMPSQ  
AWNADLEDLEPPYLPVHYSLSESA VLDSIKAQPCRSHSAPGCVIPQDPM DPPALPPKPYHP  
RLPALEHDEGVLLREETERPRGLHRKAPLPPGSAKEEQARMAWEHGRGEQ

>sp|Q9H7D0|DOCK5\_HUMAN Dedicator of cytokinesis protein 5 OS=Homo sapiens GN=DOCK5 PE=1  
SV=3

MARWIPTKRQKYGVAIYNYNASQDVLSLQIGDVT HILEMYEGWYRGYTLQNKSKKGIFP  
ETYIHLKEATVEDLGQHETVIPGELPLVQELTSTLREWAVIWRKLYVNNKLT LFRQLQQM  
TYSLIEWRSQILSGTL PKDELAELKKKVTA KIDHGNRMLGLDLVVRDDNGNILD PDETST  
IALFKAHEVASKRIEEKIQEEKSILQNLDLRGQSIFSTIHTYGLYVNFKNFVCNIGEDAE  
LFMALYDPDQSTFISENYLIRWGSNGMPKEIEKLNNLQAVFTDLSSMDLIRPRVSLVCQI  
VRVGHMELKEGKKHTCGLRRPFGVAVMDITDI IHGKVDDEEKQHFI PFQQIAMETYIRQR  
QLIMSPLITSHVIGENEPLTSVLNKVIAAKEVN HKGQGLWVSLKLLPGDLTQVQKNFSHL  
VDRSTAIARKMGFPEIILPGDVRNDIYVTLIHGEFDKGKKKTPKNVEVTMSVHDEEGKLL  
EKAIHPGAGYEGISEYKSVVYVYQVQPCWYETVKVSIAIEEVTRCHIRFTFRHRSSQETR  
DKSERAFGVAFVKLMNPDGTTLQDGRHDLV VYKGDNKKMEDAKFYLTLPGTKMEMEEKEL  
QASKNLVFTFTPSKDSTKDSFQIATLICSTKLTQNV DLLGLLNWRSNSQNIKHNLKKLMEV  
DGGEIVKFLQD TLDALFNIMMEMSDSETYDFLVFDALVFIISLIGDIKFQHFNPVLETYI  
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SKDGDEFNNSIRQLFLAFNMLMDRPLEEAVKIKGAALKYLPSIINDVKLVFDPVELSVLF  
CKFIQSI PDNQLVRQKLCNMTKIVESTLFRQSECREVLLPLLTDQLSGQLDDNSNKP DHE  
ASSQLLSNILEVLDRKDVGATAVHIQLIMERLLRRINRTVIGMNRQSPHIGSFVACMIAL  
LQQMDDSHYSHYISTFKTRQDIIDFLMETFIMFKDLIGKNVYAKDWMVMNMTQNRVFLRA  
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KEIGFRIRDMWYNLGP HKIKFIPSMVGPILEVTLTPEVELRKATIPIFFDMMQCEFNFSG  
NGNFHMFENELITKLDQEV EGGRGDEQYKVLLEKLLLEHCRKH KYLSSSGEVFALLVSSL  
LENLLDYRTIIMQDESKENRMSCTVNVLNFYKEKKREDIYIRYLYKLRDLHRDCENYTEA  
AYTLLLHAELLQWSDKPCVPHLLQKDSYVYVY TQQELKEKLYQEII SYFDKGKMWEKA IKL  
SKELAETYESKVFDEYGLGNLLKKRASFYENI IKAMRPQPEYFAVGYYGQGFP SFLRNKI  
FIYRGKEYERREDFSLRLLTQFPNAEKMTSTTPPGEDIKSSPKQYMQCFTVKPVMSLPPS  
YKDKPVPEQILNYYRANEVQQFRYSRPF RKGEKDPDNEFATMWIERTTYTTAYTFPGILK  
WFEVKQISTEEISPLENAIETMELTNERISNCVQQHAWDRSLSVHPLSMLLSGIVDPAVM  
GGFSNYEKAFFTEKYLQEHPEQEKVELLKRLIALQMPLLTEGIRIHGEKLTEQLKPLHE

RLSSCFRELKEKVEKHYGVITLPPNLTERKQSRTGSIVLPYIMSSTLRRLSITSVTSSVV  
STSSNSSDNAPSRPGSDGSILEPLLERRASSGARVEDLSLREENSENRIKFKRKDWSLS  
KSQVIAEKAPEPDLMSPTRKAQRPKSLQLMDNRLSPFHGSSPPQSTPLSPPLTPKATRT  
LSSPSLQTDGIAATPVPPPPPKSKPYEGSQRNSTELAPPLPVRREAKAPPPPPKARKS  
GIPTSEPGSQ

>sp|Q96FX2|DPH3\_HUMAN DPH3 homolog OS=Homo sapiens GN=DPH3 PE=1 SV=1  
MAVFHDEVEIEDFQYDEDESETYFYPCPGDNFSITKEDLENGEDVATCPSCSLIIKVIYD  
KDQFVCGETVPAPSANKELVKC

>sp|Q14181|DPOA2\_HUMAN DNA polymerase alpha subunit B OS=Homo sapiens GN=POLA2 PE=1 SV=2  
MSASAQQLAEELQIFGLDCEEALIEKLVELCVYQGQNEEGMVGELIAFCTSTHKVGLTSE  
ILNSFEHEFLSKRLSKARHSTCKDSGHAGARDIVSIQELIEVEEEEEILLNSYTTPSKGS  
QKRAISTPETPLTKRSVSTRSPHQLLSPSSFSPSATPSQKYNRSNRGEVVTSFGLAQGV  
SWSGRGGAGNISLKVLCPEALTGSYKSMFQKLPDIREVLTCKIEELGSELKEHYKIEAF  
TPLLAPAEQPVTLTGQIGCDSNGKLNKSVILEGDREHSSGAQIPVDLSELKEYSLFPGQ  
VVIMEGINTTGRKLVATKLYEGVPLPFYQPTTEADFEQSMVLVACGPYTSDSITYDPL  
LDLIAVINHDRPDVCILFGPFLDAKHEQVENCLLTSPFEDIFKQCLRTIIETRSSGSHL  
VFVPSLRDVHHEPVYPQPPFSYDLSREDKKQVQFVSEPCSLSINGVIFGLTSTDLLFHL  
GAEEISSSSGTSDRFSRILKHILTQRSYYPLYPQEDMAIDYESFYVYAQLPVTDPVLI  
PSELRYFVKDVLGCVNPGRLTKGQVGGTFARLYLRRPAADGAERQSPCIAVQVVRI

>sp|Q15054|DPOD3\_HUMAN DNA polymerase delta subunit 3 OS=Homo sapiens GN=POLD3 PE=1 SV=2  
MADQLYLENIDEFVTDQNKIVTYKWLSYTLGVHVNQAKQMLYDYVERKRKENSQAQLHVT  
YLVSGSLIQNGHSCHKVAVVREDKLEAVKSKLAVTASIHVYSIQKAMLKDSGPLFNTDYD  
ILKSNLQNCCKFSQIAQAAVPRAPAESSSSSKKFEQSHLHMSSETQANNELTTNGHGPP  
ASKQVSQQPKGIMGFASKAAAKTQETNKETKTEAKEVTNASAAGNKAPGKGNMMSNFFG  
KAAMNKFVNLDSEQAVKEEKIVEQPTVSVTEPKLATPAGLKKSSKKAEPVKVLQKEKKR  
GKRVALSDDKETENMRKKRRRIKLPESSSEDEVFPDSPGAYEAESPSPPPPPSPPLE  
PVPKTEPEPPSVKSSSGENKRKRKRVLSKTYLDGEGCIVTEKVYESEECTDSEELNMK  
TSSVHRPPAMTVKKEPREERKGPKKGTAALGKANRQVSITGFFQRK

>sp|Q9HCU8|DPOD4\_HUMAN DNA polymerase delta subunit 4 OS=Homo sapiens GN=POLD4 PE=1 SV=1  
MGRKRLITDSYPVVKRREGPAGHSGELAPELGEEPQRDEEEAELELLRQFDLAWQYGP  
CTGITRLQRWCRAKQMGLEPPPEVWQVLKTHPGDPRFQCSLWHLPL

>sp|Q9UNI6|DUS12\_HUMAN Dual specificity protein phosphatase 12 OS=Homo sapiens GN=DUSP12  
PE=1 SV=1  
MLEAPGPSDGCELSNPSASRVSCAGQMLEVQPGLYFGGAAVAEPDHLREAGITAVLTVD  
SEEPSFKAGPGVEDLWRLFVPALDKPETDLLSHLDRCVAFIGQARAEGRAVLVHCHAGVS  
RSVAIITAFLMKTDQLPFEKAYEKLQILKPEAKMNEGFEWQLKLYQAMGYEVDTSIAIK  
QYRLQKVTEKYPELQNLQELFAVDPTTVSQGLKDEVLYCKRKCRRSLFRSSSILDHREG  
SGPIAFAHKRMTSSMLTTGRQAQCTSYFIEPVQWMESALLGVMDGQLLCPKCSAKLGSF  
NWKYGEQCSCGRWITPAFQIHKNRVDEMILPVLGSQTGKI

>sp|Q9H596|DUS21\_HUMAN Dual specificity protein phosphatase 21 OS=Homo sapiens GN=DUSP21  
PE=1 SV=1  
MTASASSFSSSQGVQPSIYSFSQITRSLFSLNGVAANDKLLSSNRITAIVNASVEVVN  
VFFEGIQYIKVPVTDARDSRLYDFFDPIADLIHTIDMRQGRTLLHCMAGVSRASLCLAY  
LMKYHMSLLDAHTWTKSRRPIIRPNNGFWEQLINYEKLFNNNTVRMINSPVGNIPDIY

EKDLRMMISM

>sp|P51452|DUS3\_HUMAN Dual specificity protein phosphatase 3 OS=Homo sapiens GN=DUSP3 PE=1 SV=1

MSGSFELSVQDLNDLLSDGSGCYSLPSQPCNEVTPRIYVGNASVAQDIPKLQKLGITHVL  
NAAEGRSFMHVNTNANFYKDSGITYLGIKANDTQEFNLSAYFERAADFIDQALAQKNGRV  
LVHCREGYSRSPTLVIAYLMMRQKMDVKSALSIVRQNREIGPNDGFLAQLCQLNDRLAKE  
GKLKP

>sp|Q6RFH8|DUX4C\_HUMAN Double homeobox protein 4C OS=Homo sapiens GN=DUX4L9 PE=1 SV=1

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSRQLRQHRRESRPWPGRGPPEGRRKRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRARHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSAARAAPALQPSQAAPAEGISQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQQGGVLA  
PPTSQGSPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASAASDASHPGASQPLQEPG  
RSSTVTSSLLYELL

>sp|Q92997|DVL3\_HUMAN Segment polarity protein dishevelled homolog DVL-3 OS=Homo sapiens GN=DVL3 PE=1 SV=2

MGETKIIYHLDGGQETPYLVKLPLPAERTLADFKGVLQRPSYKFFFKSMDDDFGVVKEEI  
SDDNAKLPCFNRRVSWLVSAEGSHDPAPFCADNPSELPPPMERTGGIGDSRPPSFHPPH  
AGGGSQENLDNDTETDSLVSAQREPRRRDGPHEATRLNGTAKGERRREPGGYDSSSTLM  
SSELETTSFFDSDEDDSTSRFSSSTEQSSASRLMRRHKRRRRKQKVSRIERSSSFSSITD  
STMSLNIITVTLNMEKYNFLGISIVGQSNERGDGGIYIGSIMKGGAVAADGRIEPGDMLL  
QVNEINFENMSNDDAVRVLRREIVHKPGPITLTVAKCWDPSPRGCTLPREPIRPIDPAA  
WVSHTAAMTGTFPAYGMSPSLSTITSTSSITSSIPDTERLDDFHLIHSDMAAIVKAMA  
SPESGLEVRDRMWLKITIPNAFIGSDVVDWLYHNVEGFTDRREARKYASNLLKAGFIRHT  
VNKITFSEQCYIIFGDLCGNMANLSLHDHDGSSGASDQDTLAPLPHPGAAPWPMAPFYQY  
PPPPHPYNPHPGFPELGYSYGGGSASSQHSEGRSSGSNRSGSDRRKEKDPKAGDSKSGG  
SGSES DHTTRSSLRGP RERAPSERSGPAASEHSHRSHSLASSLSRHHTPSYGP PGVPP  
LYGPMLMMPPPPAAMGPPGAPGRDLASVPPELTASRQSFRMAMGNPSEFFVDVM

>sp|Q00796|DHSO\_HUMAN Sorbitol dehydrogenase OS=Homo sapiens GN=SORD PE=1 SV=4

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IVKKPMVLGHEASGTVEKVGSSVKHLKPGDRVAIEPGAPRENDEFCKMGYNLSPSIFFC  
ATPDDGNLCRFYKHNAFCYKLPDNTFEEGALIEPLSVGIHACRRGGVTLGHKVLVCG  
AGPIGMVTLVLAKAMAAQVVVTDLSATRLSKAKEIGADLVLQISKESPQEIARKVEGQL  
GCKPEVTIECTGAEASIQAGIYATRSGGNLVLVGLGSEMTTVPLLHAAIREVDIKGVFRY  
CNTWPVAISMLASKSVNVKPLVTHRFPLEKALEAFETFKKGLGLKIMLKCDPSDQNP

>sp|Q7L7V1|DHX32\_HUMAN Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX32 OS=Homo sapiens GN=DHX32 PE=1 SV=1

MEEEGLECPNSSSEKRYFPESLDSSDGDEEEVLACEDLELNPFDGLPYSSRYKLLKERE  
DLPIWKEKYSFMENLLQNQIVIVSGDAKCGKSAQVPQWCAEYCLSIHYQHGGVICTQVHK  
QTVVQLALRVADEMVDNIGHEVGYPFENCCTNETILRYCTDDMLQREMMSNPFLGSYG  
VIILDDIHERSIATDVLLGLLKDVLARPELKLII NSSPHLISKLSYYGNVPVIEVKNK  
HPVEVVYLSEAQKDSFESILRLIFEIHSGEKGDIVVFLACEQDIEKVCETVYQGSNLNP  
DLGELVVVPLYPKEKCSLFKPLDETEKRCQVYQRRVLTSSGEFLIWSNSVRFVIDVGV



ERRKVYNPRIRANSLVMQPISSQSAEIRKQILGSSSSGKFFCLYTEEFASKDMTPLKPAE  
MQEANLTSMVLFMKRIDIAGLGHCDFMNRPAPESLMQALELDYLAALDNDGNLSEFGII  
MSEFPLDPQLSKSILASCEFDCEVLTIAMVTAPNCFSHVPHGAEEAALTCWKTFLHP  
EGDHFTLISIYKAYQDITLNSSEYCVKWCYDFLNCALRMADVIRAELEI IKRIEL  
PYAEPAFGSKENTLNIKKALLSGYFMQIARDVDGSGNYLMLTHKQVAQLHPLSGYSITKK  
MPEWVLFHKFSISENNYIRITSEISPFLMQLVPPQYFNSLPPSESKDILQQVVDHLSPV  
STMNKEQQMCETCPETEQRCTLQ

>sp|Q14147|DHX34\_HUMAN Probable ATP-dependent RNA helicase DHX34 OS=Homo sapiens GN=DHX34  
PE=1 SV=2

MPPPRTREGRDRRHHRAPSEEEALEKWDWNCPETRRLLEDAFFREEDYIRQGSEECQKF  
WTFFERLQRFQNLKTSRKEEKDPGQPKHSIPALADLPRTYDPRYRINLSVLGPATRGSGG  
LGRHLPAAERVAEFRALLHYLDFGQKQAFGRLLAKLRERAALPIAQYGNRILQTLKEHQV  
VVVAGDTGCGKSTQVPQYLLAAGFSHVACTQPRRIACISLAKRVGFESLSQYGSQVGYQI  
RFESTRSAATKIVFLTVGLLRQIQREPSLPQYEVLIIVDEVHERHLHNDFFLLGVLQRLLP  
TRPDLKVLMSATINISLFSSYFSNAPVVQVPGRLFPITVVYQPQAEPTTSKSEKLDPR  
PFLRVLESIDHKYPPEERGDLLVFLSGMAEISAVLEAAQTYASHTQRWVVLPLHSALSVA  
DQDKVFDVAPPVGRKCILSTNIAETSVTIDGIRFVVDGKVKEMSYDPQAKLQRLQEFWI  
SQASAEQRKGRAGRTGPGVCFRLYAESDYDAFAPYPVPEIRRVALDSLVLQMKSMVGDP  
RTFPFIEPPPPASLETAILYLRDQGALDSSEALTPIGSLLAQLPVDVVIKMLILGSMFS  
LVEPVLTIAAALSVQSPFTRSAQSSPECAAAARRPLESDQGDPTLNFVNAWVQVKERS  
RNSRKWCRRRGIEEHRLYEMANLRRQFKELLEHDHGLLAGAQAQVGDYSYRLQRRERRA  
LHQLKRQHEEGAGRRRKVLRLQEEQDGGSSDEDRAGPAPPASDGVDIQDVKFKLRHDLA  
QLQAAASSAQDLSREQLALLKLVLGRGLYPQLAVPDAFNSSRKDSQIFHTQAKQGAVLH  
PTCVFAGSPEVLHAQELEASNCDSRDDKDKMSSKHQLLSFVSLLETNKPVLVNCVRIPA  
LQSLLLFSRSLDTNGDCSRLVADGWLELQLADSESAIRLLAASLRLRARWESALDRQLAH  
QAQQQLEEEEEDTPVSPKEVATLSKELLQFTASKIPYSLRRLTGLEVQNMVGPQTIPAT  
PHLPGLFGSSTLSPHPTKGGYAVTDFTYNCLTNDTDLYSDCLRTFTWCPHCGLHAPLTP  
LERIAHENTCPQAPQDGPPGAEEAALETQKTSVLQRPYHCEACGKDFLFTPTEVLRHRK  
QHV

>sp|Q8IY37|DHX37\_HUMAN Probable ATP-dependent RNA helicase DHX37 OS=Homo sapiens GN=DHX37  
PE=1 SV=1

MGKLRRRYNIKGRQQAGPGPSKGPPEPPVQLELEDKDTLKGVDASNALVLPGKKKKKTK  
APPLSKKEKKPLTKKEKKVLQKILEQKEKKSQRAEMLQKLSEVQASEAEMRLFYTTSKLG  
TGNRMVHTKEKADEVVAPGQEKISSLSGAHRKRRRWPSAESESESESESESESESELD  
EDPAAEPAAEAGVGTTPAPLPAPASSQVPVAGMTVPPPPAAAPPLPRALAKPAVFIPVN  
RSPEMQEERLKLPIILSEEQVIMEAVAHPVIVCGETGSGKTTQVPQFLYEAGFSSEDSI  
IGVTEPRRVAAVAMSQRVAKEMNLSQRVVSQIRYEGNVTETRIKFM TDGVLLKEIQKD  
FLLLRKYVVIIDEAHERSVYTDILIGLLSRIVTLRAKRNLPKLLIMSATLRVEDFTQNP  
RLFAKPPPVIVKVESRQFPVTVHFNKRTPLEDYSGEFCFRKVCKIHRMLPAGGILVFLTGQA  
EVHALCRRLRKAFPPSRARPQEKDDQKDSVEEMRKFKKSRAKAKKARAEVLPQINLDHY  
SVLPAGEGDEDREAEDDEEGALDSDLDLGDGGQDGGEQPDASLPLHVLPLYSLLAPE  
KQAQVFKPPPEGTRL CVVATNVAETSLTIPGIKYVVDGKVKRYDRVTGVSSFRVTWV  
SQASADQRAGRAGRTEPGHCYRLYSSAVFGDFEQFPPEITRRPVEDLILQMKALNVEKV  
INFPFPTPPSVEALLAAEELLIALGALQPPQKAERVKQLQENRLSCPITALGRTMATFPV

APRYAKMLALSRQHGCLPYAITIVASMTVRELFEELDRPAASDEELTRLKSKRARVAQMK  
RTWAGQGASLKLGDMLVLLGAVGACEYASCTPQFCEANGLRYKAMMEIRRLRGQLTTAVN  
AVCPAEELFVDPKMQPPTESQVTYLRQIVTAGLGDHLARRVQSEEMLEDKWRNAYKTPLL  
DDPVFIHPSSVLKELPEFVVYQEIVETTKMYMKGVSSEVQWIPALLPSYCQFDKPLEE  
PPTYCPERGRVLCHRASVFYRVGWPLPAIEVDFPEGIDRYKHFARFLEGGQVFRKLASY  
RSCLLSSPGTMLKTWARLQPRTESLLRALVAEKADCHEALLAAWKKNPKYLLAEYCEWLP  
QAMHPDIEKAWPPTTVH

>sp|Q96C10|DHX58\_HUMAN Probable ATP-dependent RNA helicase DHX58 OS=Homo sapiens GN=DHX58  
PE=1 SV=1

MELRSYQWEVIMPALEGKNIIWLPTGAGKTRAAAYVAKRHLETVDGAKVVVLVNRVHLV  
TQHGEFRRMLDGRVTVTLSGDMGPRAGFGHLARCHDLLICTAELLQMALTSPEEEEHV  
ELTVFSLIVVDECHHTHKDVTYVNVIMSQYLELKLQRAQPLPQVLGLTASPGTGGASKLDG  
AINHVLQLCANLDTWCIMSPQNCCPQLQEHSQQPCKQYNLCHRRSQDPFGDLLKKLMDQI  
HDHLEMPERSRKFGTQMYEQQVVKLSEAAALAGLQEQRYALHLRRYNDALLIHDTVRAV  
DALAALQDFYHREHVTKTQILCAERRLLALFDDRKNELAHLATHGPENPKLEMLEKILQR  
QFSSSNSPRGIIFTRTRQSAHSLLLWLQQQQLQTVDIRAQLLIGAGNSSQSTHMTQRDQ  
QEVIQKFQDGTLLNLVATSVAEEGLDIPHCNVVRYGLLTNEISMVQARGRARADQSVYA  
FVATEGSRELKRELINAELETMEQAVAAVQKMDQAEYQAKIRDLLQQAALTKRAAQAQR  
ENQRQQFPVEHVQLLCINCMVAVGHGSDLRKVEGTHHVNVNPNFSNYYNVSRDPVVINKV  
FKDWKPGGVISCRNCGEVWGLQMIYKSVKLPVLKVRSMLETPQGRIQAKKWSRVPFVSVP  
DFDFLQHCAENLSDLSLD

>sp|P49366|DHYS\_HUMAN Deoxyhypusine synthase OS=Homo sapiens GN=DHPS PE=1 SV=1

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFG  
RAVQQVNAMIEKKLEPLSQDEDQHADLTQSRRLTSCITFLGYTSNLISGIRETIRYLV  
QHNMDVLVTTAGGVEEDLIKCLAPTYLGEFSLRGKELRENGINRIGNLLVPNENYCKFE  
DWLMPILDQMVMQNTGKWKTPSKMIARLGKEINNPESVYYWAQKNHIPvFSPALTDGS  
LGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKKHIANANLMRNGA  
DYAVYINTAQEFSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQKMD  
AFMHEKNED

>sp|Q8NDZ4|DIA1\_HUMAN Deleted in autism protein 1 OS=Homo sapiens GN=C3orf58 PE=1 SV=1

MWRLVPPKLGRLSRSLKLAALGSLVLMLVHSPSLLASWQRNELTDRRFLQLNKCPACFG  
TSWCRRFLNGQVFEAWGRLRLDFLNVKNVYFAQYGEPREGRRRVVLKRLGSQRELAQ  
LDQSICKRATGRPRCDLLQAMPRTFARLNGDVRLLTPEAVEGWSDLVHCPDQRLDLRV  
RRYAETKDSGSFLLRNKDSERMQLLLTLAFNPEPLVLQSFPSDEGWPFAYKLGACGRMV  
AVNYVGEELWSYFNAPWEKRVDLAWQLMEIAEQLTNNDFEFALYLLDVSFDNFVAVGPRDG  
KVIIVDAENVLVADKRLIRQNKPENWDVWYESKFDDCDKEACLSFSKEILCARATVDHNY  
YAVCQNLLSRHATWRGTSGLLHDPPEIAKDGRLEALLDECANPKKRYGRFQAAKELRE  
YLAQLSNNVR

>sp|Q9P265|DIP2B\_HUMAN Disco-interacting protein 2 homolog B OS=Homo sapiens GN=DIP2B  
PE=1 SV=3

MAERGLEPSPAAVAALPPEVRAQLAELELELSEGDITQKGYEKKRSKLLSPYSPQTQETD  
SAVQKELRNQTPAPSAAQTSAPSKYHRTRSGGARDERYRSDIHTAVQAALAKHKEQKMA  
LPMPTKRRSTFVQSPADACTPPDTSSASEDEGSLRRQAALSAALQQSLQNAESWINRSIQ  
GSSTSSSASSTLSHGEVKGTSGSLADVFNTRIENTFSAPPDVTTTTSSSSSSSSIRPANI

DLPPSGIVKGMHKGSNRSSLMDTADGVPVSSRVSTKIQQLLNTLKRPKRPPLKEFFVDDS  
EEIVEVPQPDNPQKPEGRQMTVPKGEPLGVICNWPPALESALQRWGTQAKCSCLTALD  
MTGKPVYTLTYGKLWSRSLKLAYTLLNKLGTKNPVLKPGDRVALVYPNNDPVMFMVAFY  
GCLLAEVIPVPIEVPLTRKDAGGQIGFLLGSCGIALALTSEVCLKGLPKTQNGEIVQFK  
GWPRLKWVVTD SKYLSKPPKDWQPHISPAGTEPAYIEYKTSKEGSVMGVTVSRLAMLSHC  
QALSQACNYSEGETIVNVLDFFKKDAGLWHGMFANVMNKMHTISVPYSVMKTCPLSWVQRV  
HAHKAKVALVKCRDLHWAMMAHRDQRDVLSLRLMLIVTDGANPWSVSSCDAFLSLFQSH  
GLKPEAICPCATSAEAMTVAIRRPVPGAPLPGRILSMNGLSYGVIRVNTEDKNSALTV  
QDVGHVMPGGMMCIVKPDGPPQLCKTDEIGEICVSSRTGMMYFGLAGVTKNTEFEVIPVN  
SAGSPVGDVPFIRSGLLGFVGPGLSVFVVGKMDGLLMVSGRRHNADDIVATGLAVESIKT  
VYRGRIAVFSVSFVYDERIVVVAEQRPDASEEDSFQWMSRVLQAIDS IHQVGVYCLALVP  
ANTLPKTPLGGIHISQTKQLFLEGLHPCNILMCPHTCVTNLPKPRQKQPGVGPASVMVG  
NLVAGKRIAQAAGRDLGQIEENDLVRKHQFLAEILQWRAQATPDHVLFMLLNAKGTTVCT  
ASCLQLHKRAERIASVLGDKGHLNAGDNVLLYPPGIELIAAFYGCYAGCIPVTVRPPH  
AQNL TATLPTVRMIVDVSKAACILTSQTLMRLLRSREAAAADVKTWPTIIDTDDLPRKR  
LPQLYKPPTPEMLAYLDFSVSTTGMLTGVKMSHSAVNALCRAIKLQCELYSSRQIAICLD  
PYCGLGFALWCLCSVYSGHQSVLIPPELENNLFLWLSTVNQYKIRDTFCSYSVMELCTK  
GLGNQVEVLKTRGINLSCVRTCVVVAEERPRVALQQSFSKLFKDIGLSPRAVSTTFGSRV  
NVAICLQGTSGPDPTTVYVDLKSRLRHDRVRLVERGAPQSLLSSESGKILPGVKVIVNPE  
TKGPVGDSHLGEIWNPSHTASGYTTIYDSETLQADHFNTRL SFGDAAQTLWARTGYLGF  
VRRTELTAATGERHDALYVVGALDETLELRGLRYHPIDIETSVSRIHRSIAECAVFTWTN  
LLVVVVELCGSEQEALDLVPLVTNVVLEEHLIVGVVVVVDPGVIPINSRGEKQRMHLRD  
SFLADQLDPIYVAYNM

>sp|095057|DIRA1\_HUMAN GTP-binding protein Di-Ras1 OS=Homo sapiens GN=DIRA1 PE=1 SV=1  
MPEQSNDRVVFVFGAGGVGKSSLVLRVFKGTFRDYIPTIEDTYRQVISCDKSVCTLQIT  
DTTGS HQFPAMQRLSISKGHAFILVFSVTSKQSLEELGPIYKLIVQIKGSVEDIPVMLVG  
NKCDETQREVD TREAQAVAQEWKCAFMETSAKMNYNVKELFQELLTLETRRNMSLNIDGK  
RSGKQKRTDRVKGKCTLM

>sp|A7MBM2|DISP2\_HUMAN Protein dispatched homolog 2 OS=Homo sapiens GN=DISP2 PE=2 SV=2  
MDGDSSSSSGSGPAPGPGPEGEQRPEGEPLAPDGGSPDSTQTKAVPPEASPERSCSLHS  
CPLEDPSSSSGPPPTSTLQVPGPSSPLAPAHFTYPRALQEYQGGSSLPGLGDRAALCSH  
GSSLSPSPAPSQRDGTWKPPAVQHVVSVRQERAFQMPKSYSQLIAEWPVAVLMLCLAVI  
FLCTLAGLLGARLPDFSKPLLGFEPDRTDIGSKLVVWRALQALTGPRKLLFLSPDELENS  
SSSHNTLRPAPRGSQAQESAVRPRRMVEPLEDRRQENFFCGPPEKSYAKLVFMSTSSGSLW  
NLHAIHSMCRMEQDQIRSHTSFGALCQRTAANQCCPSWSLGNLAVLSNRSSCLDTTQAD  
AARTLALLRTCALYYHSGALVPSCLGPGQNKSPRCAQVPTKCSQSSAIYQLLHFLDRDF  
LSPQTTDYQVPSLKYSLLFLPTPKGASLMDIYLDRLATPWGLADNYTSVTGMDLGLKQEL  
LRHFLVQDTVYPLLALVAIFFGMALYLRSLFTLMVLLGLVLSLLVAFFLYQVAFRMAYF  
PFVNLAALLLLSSVCANHTLIFFDLWRLSKSQLPSGGLAQRVGRMTMHHFGYLLLVSGLTT  
SAAFYASYLSRLPAVRCLALFMGTAVLVHLALTLVWLPASAVLHERYLARGCARRARGRW  
EGSAPRRLLLALHRRLRGLRRAAAGTSRLLFQRLPCGVIKFRYIWIWFAALAAGGAYI  
AGVSPRLRLPTLPPPGGVFRPSHPFERFDAEYRQLFLFEQLPQEGEGHMPVVLVWGVLP  
VDTGDPLDPRSNSSLVRDPAFSASGPEAQRWLLALCHRARNQSFFDTLQEGWPTLCFVET  
LQRWMESPSCARLGPDLCCGHSDFPWAPQFFLHCLKMMALEQGP DGTQDLGLRFD AHGSL

AALVLQFQTNFRNSPDYNQTQLFYNEVSHWLAELGMAPPGLRRGWFTSRLELYSLQHSL  
STEPAVVLGLALALAFATLLLGTWNVPLSLFSVAAGTVLLTVGLLVLEWQLNTAEAL  
FLSASVGLSVDFTVNYCISYHLCPPDRLSRVAFSLRQTSCATAVGAAALFAAGVLMPLA  
TVLLYRKLGIIILMMVKVSCGFASFFQSLCCFFGPEKNCGQILWPCAHLPWDAGTGDPG  
GEKAGRPRPGSVGGMPGSCSEQYELQPLARRRSPSFDTSTATSKLSHRPSVLSEDLQLHD  
GPCCSRPPAPASPRELLLDHQAVFSQCPALQTSSPYKQAGSPKTRARQDSQGEEAEPL  
PASPEAPAHSPKAKAADPPDGFCSASTLEGLSVSEDTCLSTSEPSARVPDSVGVSPDDL  
DDTGQPVLERGQLNGKRDTLWLALRETVYDPSLPASHHSSLWKGRGGPGDGPVVL PNS  
QPDLPDVWLRPSTHTSGYSS

>sp|Q9UBU2|DKK2\_HUMAN Dickkopf-related protein 2 OS=Homo sapiens GN=DKK2 PE=2 SV=1

MAALMRKDSGCCLLLA AVLMESSQIGSSRAKLNSIKSSLGGETPGQAANRSAGMYQG  
LAFGGSKKGKNLGQAYPCSSDKECEVGRYCHSPHQSSACMVCRRKKKRCHRDGMCCPST  
RCNNGICIPVTESILTPHIPALDGTRHRDRNHGHYSNHDLGWQNLGRPHTKMSHIKGHEG  
DPCLRSSDCIEGFCCARHFWTICKPVLHQGEVCTKQRKKGSHGLEIFQRCDCAKGLSCK  
VWKDATYSSKARLHVCQKI

>sp|Q9UK85|DKKL1\_HUMAN Dickkopf-like protein 1 OS=Homo sapiens GN=DKKL1 PE=2 SV=1

MGEASPPAPARRHLLVLLLLLSTLVIPSAAP IHDADAQESSLGLTGLQSLLQGFSRLFL  
KGNLLRGIDSLFSAPMDFRGLPGNYHKEENQEHQLGNNTLSSHLQIDKMTDNKTGEVLIS  
ENVVASIQPAEGSFEGDLKVPMEKEALVPIQKATDSFHTELHPRVAFWIIKLPRRRSH  
QDALEGGHWLSEKRHRLQAIRDGLRKGTHKDVLEEGTESSSHSRLSPRKTHLLYILRPSR  
QL

>sp|Q12959|DLG1\_HUMAN Disks large homolog 1 OS=Homo sapiens GN=DLG1 PE=1 SV=2

MPVRKQDTQRALHLL EYRSKLSQTEDRQLRSSIERVINIFQSNLFQALIDIQEFYEVTL  
LDNPKCIDRSKPSEPIQPVNTWEISSLPSTVTSETLPSSLSPSVEKYRYQDEDTPPQEH  
ISPQITNEVIGPELVHVSEKNLSEIENVHGFVSHSHISPIKPTEAVLPSPPTVPVIVPLP  
VPAENTVILPTIPQANPPPVLVNTDSLETPTYVNGTDADYEYEEITLERGNSGLGFSIAG  
GTDNPHIGDDSSIFITKIIITGAAAQDGRLRVND CILRVNEVDVRDVTHSKAVEALKEAG  
SIVRLYVKKRPVSEKIMEIKLIKPKGLGFSIAGGVGNQHIPGDNSIYVTKII EGGAH  
KDGLKQIGDKLLAVNNVCLEEVTHEEAVTALKNTSDFVYLKVAKPTSMYMNDGYAPPDIT  
NSSSQPVDNHVSPSSFLGQTPASPARYSPVSKAVLGDEITREPRKVVLRHGSTGLGFNI  
VGGEDGEGIFISFILAGGPADLSGELRKGDRIISVNSVDLRAASHEQAAAALKNAGQAVT  
IVAQYRPEEYSRFEAKIHDLREQMMNSSISSGSGSLRTSQKRSLYVRALFDYDKTKDSGL  
PSQGLNFKFGDILHVINASDDEWWQARQVTPDGESDEGVIPSKRRVEKKERARLKT VKF  
NSKTRDKGEIPDDMGSKGLKHVTSNASDSESSYRGQEYVLSYEPVQQEVNYTRPVII L  
GPMKDRINDDLISEFPDKFGSCVPHTTRPKRDYEVDGRDYHFVTSREQMEKDIQEHKFIE  
AGQYNNHLYGTSVQSVREVAEKGKHCILDVSGNAIKRLQIAQLYPISIFIKPKSMENIME  
MNKRLTEEQARKTFERAMKLEQEFTEHFTAIVQGDTLEDIYNQVKQIIEEQSGSYIWVPA  
KEKL

>sp|O14490|DLGAP1\_HUMAN Disks large-associated protein 1 OS=Homo sapiens GN=DLGAP1 PE=1  
SV=1

MKGLSGSRSHHHGVTCD SACSLSHSDRKPYLLSPVEHHPADHPYYTQRNSFQAECVGP  
FSDPLASSTFPRRHYSQQELKDECALVPRTLATKANRIPANLLDQFERQLPLSRDGYHT  
LQYKRTAVEHRSDSPGRIRHLVHSVQKLFTKSHSLEGPSKGSVNGKASPDEAQAARYGK  
RSKSKERRAEPKARPSTSPGWWSSDDNLDGDMCIYHAPSGVMTMGRCPDRSASQYFLEAY

NTISEQAVKASRSNNDVKSTCANLPVSLDTPLLKSAWSSLTVSRAREVYQKASVNMD  
QAMVKSESCQQRSCQYLQVPQDEWTGYTPRGKDDEIPCRMRSGSYIKAMGDEDSGDSD  
TSPKPSPKVAARRESYLKATQPSLTELTTLKISNEHSPKLQIRSHSYLRVSEVSINRSL  
DSLDPAGLLTSPKFRSRNESYMRAMSTISQVSEMEVNGQFESVCESVFSELESQAVEALD  
LMPGCFRMRSHSYVRAIEKGCSQDDECVSLRSSSPRTTTTVVRTIQSSTVSSCITYKK  
TPPPVPPRTTTTKPFISITAQSSTESAQDAYMDGQGQRGDIISQSGLSNSTESLDSMKALT  
AAIEAANAQIHGPASQHMGNNTATVTTTTTIATVTTEDRKKDHFKNRCLSIGIQVDDAE  
EPDKTGENKAPSKFQSVGVQVEEEKCFRRFTRNSVTTAVQADLDFHDNLENSLESIEDN  
SCPGPMARQFSRDASTSTVSIQSGSNHYHACAADDDFDTFDPSILPPDPWIDSITEDP  
LEAVQRSVCHRDGHWFLKLLQAERDRMEGWCQQMEREERENNPEDILGKIRTAVGSAQL  
LMAQKFYQFRELCEENLNPNNAHPRPTSQDLAGFWDMLQLSIENISMKFDELHQLKANNWK  
QMDPLDKKERRAPPPVPPKPAKGPAPLIRERSLESSQRQEARKRLMAAKRAASVRQNSAT  
ESAESIEIYIPEAQTRL

>sp|095886|DLGP3\_HUMAN Disks large-associated protein 3 OS=Homo sapiens GN=DLGAP3 PE=1  
SV=3

MRGYHGDRGSHPRPARFADQQHMDVGAARAPYLLGSREAFSTEPFCAPRAGLGHISPE  
GPLSLSEGPSVGPEGGPAGAGVGGSSSTFPRMYPGQGPFDTCEDCVGHPQGKGAPRLPPT  
LLDQFEKQLPVQDGFHTLPYQRGPAGAGPGAPGTGTAPEPRSESPSRIRHLVHSVQKL  
FAKSHSLEAPGKRDYNGPKAEGRGGSGGDSYPGPGSGGPHTSHHHHHHHHHHHQSRHGK  
RSKSKDRKGDGRHQAKSTGWWSSDDNLDSDSGFLAGGRPPGEPGGPFCLEGPDGSYRDL  
FKGRSGGSEGRCLACTGMSMSLDGQSVKRSAWHTMMVSQGRDGYPGAGPGKLLGPETKA  
KARTYHYLQVPQDDWGGYPTGGKDGEIPCRMRSGSYIKAMGDEESGDSDGSPKTSKAV  
ARRFTTRSSSVQARINCCVPPRIHPRSSIPGYRSLTTGQLSDELNQQLEAVCGSVFG  
ELESQAVDALDLPGCFRMRSHSYLRAIQAGCSQDDCLPLLATPAAVSGRPGSSFNFRKA  
PPPIPPGSQAPPRISITAQSSTDSAHESFTAEGPARRCSSADGLDGPAMGARTLELAPV  
PPRASPKPPTLI IKTIPGREELRSLARQRKWRPSIGVQVETISDSDTENRSRREFHSIGV  
QVEEDKRRARFKRSNSVTAGVQADLELEGLAGLATVATEDKALQFGRSFQRHASEPQPGP  
RAPTYSVFRTVHTQGWAYREGYPLPYEPPATDGSPGPAPAPTGPAGARRDSWIERGSR  
SLPDSGRASPCPRDGEWFIKMLRAVEKLEHWCQMEREAEYELPEEILEKIRSAVGST  
QLLLSQKVQQFFRLCQQSMDPTAFPVPTFQDLAGFWDLLQLSIEDVTLKFLELQQLKANS  
WKLEPKKEKKVPPPIPKKPLRGRGVPVKERSLDSVDRQRQEARKRLAAKRAASFRHSS  
ATESADSIEIYIPEAQTRL

>sp|Q9Y2H0|DLGP4\_HUMAN Disks large-associated protein 4 OS=Homo sapiens GN=DLGAP4 PE=1  
SV=3

MKGLGDSRPRHLSDSLDPPHEPLFAGTDRNPYLLSPTEAFAREARFPGQNTLPGDGLFPL  
NNQLPPPSSTFPRIHYNHFEVPEESPFPSHAQATKINRLPANLLDQFEKQLPIHRDGFS  
TLQFPRGEAKARGESPGRIRHLVHSVQRLFFTKAPSLAGTAGKVGNGSKKGGMEDGKGR  
RAKSKERAKAGEPKRRSRNISGWWSSDDNLDGEAGAFRSSGPASGLMTLGRQAERSQPR  
YFMHAYNTISGHMLKTTKNNTTELAPPPPPAPPATCPSLGVGTDNTNYVKRGSWSTLTL  
HAHEVCQKTSATLDSLLKSKSCHQGLAYHYLQVPGGGGEWSTLLSPRETAAAEGPI  
CRRMRSGSYIKAMGDEDSDES GGSPKPSPKTAARRQSYLRATQQLGEQSNPRSLDRLD  
SVDMLLPSKCPSEEDYTPVSDSLNDSSCISQIFGQASLIPQLFGHEQQVREAELSDQYE  
AACESACSEAESTAAETLDLPLPSYFRSRSHSYLRAIQAGCSQEEDSVSLQSLPPPSTG  
SLSNSRTLPPSSCLVAYKKTPPPPVPPRTTSKPFISVTVQSSTESAQDTYLDSDHKSEVT

SQGLSNSSDSLDSSTRPPSVTRGGVAPAEPEPPPKHAALKSEQGTLTSSESHPEAAP  
KRKLSSIGIQVDCIQPVPKEEPPATKQSIGVQVEDDWRSSVPSHSMSSRRDTSQD  
ANDSSCKSSERSLPDCTPHNPSISIDAGPRQAPKIAQIKRNL SYGDNNDPALEASSLPPP  
DPWLETSSSSPAEPAQPGACRRDGYWFLKLLQAETERLEGWCCQMDKETKENNLSEEVLG  
KVL SAVGSAQLLMSQKFQQFRGLCEQNLNPDANPRPTAQDLAGFWDLLQLSIEDISMKFD  
ELYHLKANSWQLVETPEKRKEEKKPPPPVPKKPAKSKPAVSRDKASDASDKQRQEARL  
LAAKRAASVRQNSATESADSI EIVPEAQTRL

>sp|Q15398|DLGP5\_HUMAN Disks large-associated protein 5 OS=Homo sapiens GN=DLGAP5 PE=1  
SV=2

MSSSHFASRHRKDISTEMIRTKIAHRKSLSQKENRHKEYERNRHFGLKDVNIPTLEGRIL  
VELDETSQGLVPEKTNV KPRAMKTI LGDQRKQMLQKYKEEKQLQKLEQREKAKRGIFKV  
GRYRPDMPCFLLSNQNAVKAEPKKAIPSSVRITRSKAKDQMEQTKIDNESDVRAIRPGPR  
QTSEKKVSDKEKKVVPVMP TSLRMTRSATQAAKQVPRTVSSTTARKPVTRAANENEPEG  
KVPSKGRPAKNVETKPDKGISCKVDSEENTLNSQTNATSGMNP DGVL SKMENLPEINTAK  
IKGKNSFAPKDFMFQPLDGLKTYQVTMP TPRSANAFLTPSYTWTPLKTEVDESQATKEIL  
AQKCKTYSTKTIQQDSNKLPCPLGPLTVWHEEHVLNKN EATTKNLNGLPIKEVPSLERNE  
GRIAQPHHGVYPFRNILQSETEKLTSHCFEWD RKLELDIPDDAKDLIRTAVGQTRLLMKE  
RFKQFEGLVDDCEYKRGIKETTCTDL DGFWMVSFQIEDVIHKFNLIKLEESGWQVNNN  
MNHNMKNVFRKKVVS GIASPKQDDAGRIAARNRLAAIKNAMRERIRQE ECAETA VSVI  
PKEVDKIVFDAGFFRVESPVKLFSGLSVSSEGPSQRLGTPKSVNKAVSQSRNEMGIPQQT  
TSPENAGPQNTKSEHVKKTFLSIPESRSSIEDAQCPGLPDLI EENHVVNKTDLKVDCLS  
SERMSLP LLAGGVADDINTNKKEGISDVVEGMELNSSITSQDVLMS SPEKNTASQNSILE  
EGETKISQSE LFDNKSLTTECHLLDSPGLNCSNPFTQLERRHQEHARHISFGGNLITFSP  
LQPGEF

>sp|000548|DLL1\_HUMAN Delta-like protein 1 OS=Homo sapiens GN=DLL1 PE=1 SV=2

MGRCALALAVLSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGAGPPPCACRTFF  
RVCLKHYQASVSPEPPCTYGS AVTPVLGVDSFSLPDGGGADSAFSNP IRFPFGFTWPGTF  
SLII EALHTDSPDDLATENPERLISRLATQRHLTVGEEWSQDLHSSGRD LKYSYRFVCD  
EHYYGEGCSVFCRPRDDAFGHFTCGERGEKVCNPGWKG PYCTEPICLPGCDEQHGFC DKP  
GECKCRVGWQGRYCECIRYPGCLHGTCQQPWQCNCQEGWGGLFCNQDLNYCTHHK PCKN  
GATCTNTGQGSYTCSCRPGYTGATCELG IDECDPSPCKNGGSCTDLENSYSCTCPPGFY G  
KICELSAMTCADGPCFNGGRCS DSPDGGYSCRPVGYSGFNCEKKIDYCSSSPCSNGAKC  
VDLGDAYLCRCQAGFSGRHCDDNVDDCASSPCANGGTCRDGVNDFSCTCPPGYTGRNCSA  
PVSRCEHAPCHNGATCHERGHRYVCECARGYGGPNCQFLLPELPPGPAVVDL TEKLEGQG  
GPFPWVAVCAGVILVLM LLLGCAAVVVCVRLRLQKHRPPADPCRGETETMNNLANCQREK  
DISVSIIGATQIKNTNKKADFHGDHSADKNGFKARYPAVDYNLVQDLKGDDTAVRDAHSK  
RDTKCQPQGSSGEEKGTPTTLRGGEASERKRPDSGCSTSKDTKYQSVYVISEEKDECVIA  
TEV

>sp|Q9BZ29|DOCK9\_HUMAN Dedicator of cytokinesis protein 9 OS=Homo sapiens GN=DOCK9 PE=1  
SV=2

MSQPPLLASAETRKFTRLSKPGTAAELRQSVSEVVRGSVLLAKPKLIEPLDYENVIVQ  
KKTQILNDCLREMLLFYDDFQTAILRRQGRYICSTVPAKAE EEAQSLFVTECIKTYNSD  
WHLVNYKYEDYSGEFRQLPNKVVKLDKLPVHVYEVDEEVDKDEDAASLSGQKGGITKHGW  
LYKGNMNSAISVTMR SFKRRRFHLIQ LGDGSYNLNFYKDEKISKEPKGSIFLDSCMGVVQ

NNKVRRAFELKMQDKSSYLLAADSEVEMEEWITILNKILQLNFEAMQEKRNQDGHEDD  
EQSKLEGGSGLD SYLPELAKSAREAEIKLKSESRVKLFYLDPAQKLD FSSAEPEVKSF  
EEKFGKRILVKCNLSFNLQCCVAENEEGPTTNVEPFFVTL SLDIKYNRKISADFHVDL  
NHFSVRQMLATTSPALMNGSGQSPSVLK GILHEAAMQYPKQGIFSVTC PHPDIFLVARIE  
KVLQGSITHCAEPMKSSDSSKVAQKVLKNAKQACQRLGQYRMPFAWAARTL FKDASGNL  
DKNARFSAIYRQDSNKL SNDDMLKLLADFRKPEKMAKLPVILGNLDITIDNVSSDFPNYV  
NSSYIPTKQFETCSKTPITFEVEEFVPCIPKHTQPYTIYTNHLYVYPKYLYDSQKSFAK  
ARNIAICIEFKDSDEEDSQPLKCIYGRPGGPVFTRSAFAAVLHHHQNP EFYDEIKIELPT  
QLHEKHHL LTTFFHVSCDNSSKGSTKKRDV VETQVGYSWLPLLKDGRVVTSEQHIPVSAN  
LPSGYLGYQELGMGRHYGPEIKWVDGGKPLLKISTHLVSTVYTQDQHLHNFQYCKTES  
GAQALGNELVKYLKSLHAMEGHVMI AFLPTILNQLFRVLTRATQEEVAVNVTRV I IHVVA  
QCHEEGLESHLSYVKYAYKAEPYVASEYKTVHEELTKSMTTILKPSADFLT SNKLLKYS  
WFFFDVLIK SMAQHLIENSKVKLLRNQRF PASYHHAVETVVNMLMPHITQKFRDNPEASK  
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LALPAVNPLVTPQKGSTLDNSLHKDLLGAISG IASPYTTSTPNINSVRNADSRGSLISTD  
SGNSLPERNSEKSNSLDKHQSSSTLGNSVVRCDKLDQSEIKSLLMCFLYILKSMSDDALF  
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HSDADVLHQSLLEANIATEVCLTALDTLSLFTLAFKNQLLADHGHNPLMKKVFDVYLCFL  
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MARIHVKNGDLSEAAACVHVHTALVAEYLTRKEAVQWEPPLLPHSHSACLRRSRGGVFRQ  
GCTAFRVI TPNIDEEASMMEDVGMQDVHFNEDVLMELLEQCADGLWKAERYELIADIYKL  
IPIIYEKRRD FERLAHLYDTLHRAYSKVTEVMHSGRLLGT YFRVAFFGQAAQYQFTDSE  
TDVEGFFEDDGKEYIYKEPKLTPLSEISQRLLKLYSDKFGSENVKMIQDSGKVNPKDLD  
SKYAYIQVTHVIPFFDEKELQERKTEFERSHNIRRFMFEMPFTQTGKRQGGVEEQCKRRT  
ILTAIHCFPYVKKRIPVMYQHHTDLNPIEVAIDEMSKKVAELRQLCSSAEVDMIKLQLKL  
QGSVSVQVNAGPLAYARAFLLDNTKRYPDNKVKLLKEVFRQFVEACGQALAVNERLIKE  
DQLEYQEEMKANYREMAKELSEIMHEQLG

>sp|Q6PKX4|DOK6\_HUMAN Docking protein 6 OS=Homo sapiens GN=DOK6 PE=1 SV=1

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ELHNIKNIITRLPRETKKHAVAIIFHDETSKTFACESELEAEWCKHLCMECLGTRLNDIS  
LGEPDLLAAGVQREQNERFNVYLMPTPNLDIYGECTMQITHENIYLWDIHNKVKLVWMP  
LSSLRRYGRDSTWFTFESGRMCDTGEGLFTFQTREGEMIQKVHSATLAI AEQHERLMLE  
MEQKARLQTSLTEPMTLSKSI SLPR SAYWHHITRQNSVGEIYSLQGHGFGSSKMSRAQTF  
PSYAPEQSEEAQQPLSRSSSYGFSYSSSLIQ

>sp|P30046|DOPD\_HUMAN D-dopachrome decarboxylase OS=Homo sapiens GN=DDT PE=1 SV=3

MPFLELDTNLPANRV PAGLEKRLCAAAASILGKPADRVNVTVRPGLAMALSGSTEPCAQL  
SISSIGVVGTAE DNRS SHAHFFEF LTKELALGQDRILIRFFPLESWQIGKIGTVMTFL

>sp|Q86SG4|DPCA2\_HUMAN Putative Dresden prostate carcinoma protein 2 OS=Homo sapiens  
GN=HMG2P46 PE=5 SV=1

MEPWAMRALDFADESGSVSCKDMHLLWLQKRIEMHKA EQCEEEAMTPRPTKARAPLPS

AYVPPLSLPPCPRERLKGMLKEIKPRLSRNCREDPQGCLLNLLQSHSRSPERPLQRRER  
RYLQRRREKLMLARRGITLQKMEMPKQTRHRKLKVLEMPSEVCAFLITVYFW

>sp|Q92784|DPF3\_HUMAN Zinc finger protein DPF3 OS=Homo sapiens GN=DPF3 PE=1 SV=3

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HRGPG LAPGQLYTPARCWRKKRRLHPPEDPKLRLLEIKPEVELPLKKDGFTSESTLEA  
LLRGEGVEKKVDAREEESIQEIQRVLENDENVEEGNEEDLEEDIPKRKNRTRGRARGSA  
GRRRRHDAASQEDHDKPYVCDICGKRYKNRGLSYHYAHTHLASEEGDEAQDQETRSPPN  
HRNENHRPQKGPDGTVIPNNYCDFCLGGSNMNKKSGRPEELVSCADCGRSGHPTCLQFTL  
NMTEAVKTYKWQCIECKSCILCGTSENDQLLFCDDCDRGYHMYCLNPPVAEPPEGSWSC  
HLCWELLKEKASAFGCQA

>sp|Q9NY33|DPP3\_HUMAN Dipeptidyl peptidase 3 OS=Homo sapiens GN=DPP3 PE=1 SV=2

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ALLSRLFRAQDPDQLRQH ALEGLTEEEYQAF LVYAAGVYSNMGNYSFGDTKFVPNLPK  
EKLERVILGSEAAQHPPEVRGLWQTCGELMFSLEPRLRHLGLGKEGITYFSGNCTMED  
AKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVR LASVLGSEPSLDSEVTSKLKSYEFR  
GSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKGRSRFW  
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWP  
PTFEKDKFLTPTDFTSLDVLTFAGSGIPAGINIPNYDDL RQTEGFKNVSLGNVLAVAYATQ  
REKLTFLEEDDKDLYILWKGPSFDVQVGLHELLGHGSGKLFVQDEKGAFNFDQETVINPE  
TGEIQISWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVLEIFGFEGADAEDVIY  
VNWLMVRAGLLALEFYTP EAFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGSDGRPD  
ARVRLDRSKIRSVGKPALERFLRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLT LRD  
TVLLRKESRKLIVQPNTRLEGSVDVQLLEYEASAAGLIRSFSERFPE DGP ELEEILTQLAT  
ADARFWKGPSEAPSGQA

>sp|Q7L190|DPPA4\_HUMAN Developmental pluripotency-associated protein 4 OS=Homo sapiens  
GN=DPPA4 PE=1 SV=2

MLRGSASSTSM EKAKGKEWTSTEKSREEDQQASNQPN SIALPGTS AKRTKEKMSIKGSKV  
LCPKKKAEHTDNPRPQKKIPIPLPSKLPVNL IHRDILRAWCQQLKSSKGQKLDAYKR  
LCAFAYPNQKDFPSTAKEAKIRKSLQKKLKVEKGETSLQSSETHPPEVALPPVGEP PALE  
NSTALLEGVNTVVVTTSAPEALLASWARISARARTPEAVESPQEASGVRWCVVHGKSLPA  
DTDGWVHLQFHAGQAWVPEKQEGRV SALFLLPASNFPPPHLEDNMLCPKCVHRNKVLIKS  
LQWE

>sp|Q12882|DPYD\_HUMAN Dihydropyrimidine dehydrogenase [NADP(+)] OS=Homo sapiens GN=DPYD  
PE=1 SV=2

MAPVLSKDSADIESILALNPRTQTHATLCSTS AKKLDKKHWRNPDKNCFNCEKLENNFD  
DIKHTTLGERGALREAMRCLKADAPCQKSCPTNLDIKSFITS IANKNYYGAAKMIFSDN  
PLGLTCGMVCPTSDLCVGGCNLYATEEGPINIGGLQQFATEVFKAMSIPQIRNPSLPPPE  
KMSEAYS AKIALFGAGPASISCASFLARLGYS DITIFEKQEYVGGLSTSEIPQFRLPYDV  
VNFEIELMKDLGVKII CGKSLSVNEMTLSTLKEKGYKAAFIGIGLPEPNKDAIFQGLTQD  
QGFYTSKDFLPLVAKGSKAGMCACHSPLPSIRGVVIVLGAGDTAFDCATSALRCGARRVF  
IVFRKGFVNIRAVPEEMELAKEEKCEFLPFLSPRKVIVKGGRIVAMQFVRTEQDET GKWN  
EDEDQMVHLKADVVISAFGSVLSDPKVKEALSPIKFNRWGLPEVDPETMQTSEAWVFAGG  
DVVGLANTTVESVNDGKQASWYIHKYVQSQYGASVSAKPELPLFYTPIDLVDISVEMAGL  
KFINPFGLASATPATSTSMIRRAFEAGWGFALT KTFSLDKDIVTNVSPRIIRGTTSGPMY



GPGQSSFLNIELISEKTAAYWCQSVTELKADFPDNIVIASIMCSYNKNDWTELAKKSEDS  
GADALELNLSCPHGMGERGMGLACGQDPELVRNICRWVRQAVQIPFFAKLTPNVTDIVSI  
ARAAKEGGANGVTATNTVSGLMGLKSDGTPWPAVGIKRTTYGGVSGTAIRPIALRAVTS  
IARALPGFPILATGGIDSAESGLQFLHSGASVLQVCSAIQNQDFTVIEDYCTGLKALLYL  
KSIEELQDWDGQSPATVSHQKGKFPVRIAEMLDKKLPSFGPYLEQRKKIIAENKIRLKEQ  
NVAFSPLKRNCFIPKRPIPTIKDVIKALQYLGTFGELSNVEQVAMIDEEMCINCGKCY  
MTCNDSGYQAIQFDPETHLPTITDCTGCTLCLSVCPIVDCIKMVSRTTPYEPKRGVPLS  
VNPVC

>sp|Q14195|DPYL3\_HUMAN Dihydropyrimidinase-related protein 3 OS=Homo sapiens GN=DPYSL3  
PE=1 SV=1

MSYQGKKNI PRITSDRLLIKGGRIVNDDQSFYADIYMEDGLIKQIGDNLIVPGGVKTIEA  
NGKMVIPGGIDVHTHFQMPYKGMTTVDDFFQGTAAALAGGTTMIIDHVVPEPESSLTEAY  
EKWREWADGKSCCDYALHVDITHWNSVKQEVQNLIKDKGVNSFMVYMAYKDLYQVSNT  
LYEIFTCLGELGAIAQVHAENGDIIEAQEQTRMLEMGITGPEGHLSRPEELEAEAVFRAI  
TIASQTNCPYLVTKVMSKSAADLISQARKKGNVVFGEPIASLGIDGTHYWSKNWAKAAA  
FVTSPLSPDPTTPDYINLLASGDLQLSGSAHCTFSTAQKAIGKDNFTAIPEGTNGVEE  
RMSVIWDKAVATGKMENQFVAVTSTNAAKIFNLYPRKGRI SVGSDSDLVIWDPDAVKIV  
SAKNHQSAAEYNIFEGMELRGAPLVVICQKIMLEDGNLHVTQGAGRFIPCSPFSDYVYK  
RIKARRKMADLHAVPRGMYDGPVFDLTTTPKGGTPAGSARGSPTRPNPPVRNLHQSGFSL  
SGTQVDEGVRSAKRIVAPPGGRSNITSLS

>sp|Q14117|DPYS\_HUMAN Dihydropyrimidinase OS=Homo sapiens GN=DPYS PE=1 SV=1

MAAPSRLLIRGGRVNDDFSEVADVLVEDGVVRALGHDLLPPGGAPAGLRVLDAAGKLVL  
PGGIDTHTHMQFPFMGSRSIDDFHQGTAAALSGGTTMIIDFAIPQKGGSLIEAFETWRSW  
ADPKVCCDYSLHVAVTWWSQVKEEMKILVQDKGVNSFKMF MAYKDYMTDLELYEAFS  
RCKEIGATAQVHAENGDLIAEGAKKMLALGITGPEGHEL CRPEAVEAEATLRAITIASAV  
NCPLYIVHVMSSAAKVIADARRDGKVVEGEPIAASLGTGTHYWNKEWHHAHHVMGPP  
LRPDPSTPDFLMNLLANDDLTTGTDNCTFNTCQKALGKDDFTKIPNGVNGVEDRMSVIW  
EKGVHSGKMENRFVAVTSTNAAKIFNLYPRKGRIAVGSDADIVIWDPKGTRTISAKTHH  
QAVNFNIFEGMVCHGVPLVTISRQKVVEAGVFSVTAGDKFIPRKPFAEYIYKRIKQRD  
RTCTPTPVERAPYKGEVATLKSRTKEDATAGTRKQHP

>sp|P01909|DQA1\_HUMAN HLA class II histocompatibility antigen, DQ alpha 1 chain OS=Homo  
sapiens GN=HLA-DQA1 PE=1 SV=1

MILNKALMLGALALTTVMSPCGGEDIVADHVASYGVNLYQSYGPSGQYTHEFDGDEQFYV  
DLGRKETVWCLPVLQRFRDPQFALTNI AVLKHNLSLIKRSNSTAATNEVPEVTVFSKS  
PVTLGQPNILICLDNIFPPVNNITWLSNGHSVTEGVSETSFLSKSDHSFFKISYLTLLP  
SAEESYDCKVEHWGLDKPLLKHWEPEIPAPMSELTETVVCALGLSVGLVGIVVGTVFIR  
GLRSGASRHQGPL

>sp|Q08554|DSC1\_HUMAN Desmocollin-1 OS=Homo sapiens GN=DSC1 PE=1 SV=2

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LIRSSDPAFRILEDGSITYTTHDLILSSERKSFSIFLSDGQRREQQEI KVVL SARENKSPK  
KRHTKDTALKRSKRRWAPIPASLMENSLGPPQHVQQIQSDAAQNYTIFYSISGPGVDKE  
PFNLFYIEKDTGDFCTRSIDREKYEQFALYGYATTADGYAPEYPLPLIIKIEDDNDNAP  
YFEHRVTIFTVPENCRRSGTSVGKVTATDLDEPDTLHTRLKYKILQQIPDHPKHFSIHPDT  
GVITTTTPFLDREKCDTYQLIMEVRDMGGQPFGLFNTGTITISLEDENDNPPSFTETSIV

TEVEENRIDVEILRMKVQDQDLNTPHSAVKYKILQGNENGFIISTDPNTNEGVLGVVVK  
PLNYEVNRQVILQVGVINEAQFSKAASSQTPMCTTTTVTKIIDSDEGPECHPPVKVIQS  
QDGFPAQGELLGYKALDPEISSGEGRLYQKLGEDNWFENQHTGDLRTLKVLDRSKFV  
KNNQYNISVVAVDVGRSCTGTLVVHLDDYNDHAPQIDKEVTICQNNEDFAVLKPVPDPG  
PENGPPFQFFLDNSASKNWNIEEKDGKTAILRQRQNLDYNYSVPIQIKDRHGLVATHML  
TVRVDCSTPSECRMKDKSTRDVRPNVILGRWAILAMVLGSLVLLCILFTCFCTAKRTV  
KKCFPEDIAQQNLIVSNTEGPGEVTEANIRLPMQTSNICDTSMSVGTGGGQIKTQQSF  
EMVKGGYTLDSNKGGGHQTLESVKGVGQGDTRGYAYTDWQSFTQPRLGEKVYLCGGQDEEH  
KHCEDYVCSYNYEGKSLAGSVGCCSDRQEEEGLEFLDHLEPKFRTLAKTCIKK

>sp|Q02487|DSC2\_HUMAN Desmocollin-2 OS=Homo sapiens GN=DSC2 PE=1 SV=1

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KKRHTKEKVLRRAKRRWAPIPCSMLENSLGPFLFLQQVQSDTAQNYTIYYSIRGPGVDQ  
EPRNLFYVERDTGNLYCTRPVDREQYESFEIIAFATTPDGYTPELPLPLIIKIEDENDNY  
PIFTEETYTFTIFENCVRGTTVGQVCATDKDEPDTMHTRLKYSIIIGQVPPSPTLFSMHPT  
TGVITTTSSQLDRELIDKYQLKIKVQMDGQYFGLQTTSTCIINIDVDNHLPTFTRTSY  
VTSVEENTVDVEILRVTVEDKDLVNTANWRANYTILKGNENGFKIVTDAKTNEGVLGVV  
KPLNYEEKQQMILQIGVVNEAPFSREASPRSAMSTATVTNVNEDQDEGPECNPPIQTVRM  
KENAEVGTTSNGYKAYDPETRSSSGIRYKKLTDPTGWVTIDENTGSIKVFRSLDREAETI  
KNGIYNITVLASDQGGRTCTGTLGIILQDVNDNSPFIKKTVIICKPTMSSAEIVAVDPD  
EPIHGPPDFDSLESSTSEVQRMWRKKAINDTAARLSYQNDPPFGSYVVPITVRDLGMSS  
VTSLDVTLCDCITENDCTHRVDPRIGGGVQLGKWAILAILLGIALLCILFTLVCGASG  
TSKQPKVIPDDLAQQNLIVSNTEAPGDDKVYSANGFTTQTVGASAQGVCCTVGSIGKNGG  
QETIEMVKGGHQTSSECRGAGHHHTLDSCRGGHTEVDNCRYTYSEWHSFTQPRLGEKVYL  
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R

>sp|Q8TD84|DSC1\_HUMAN Down syndrome cell adhesion molecule-like protein 1 OS=Homo sapiens  
GN=DSCAM1 PE=1 SV=2

MWLVTFLLLLDLHKARPEDVGTSLYFVNDSLQVTFSSSVGVVPCPAAGSPSAALRWY  
LATGDDIYDVPHIRHVHANGTLQLYPFSPSAFNSFIHDNDYFCTAENAAGKIRSPNIRVK  
AVFREPYTVRVEDQRSMRGNVAVFKLIPSSVQEYVSVVSWEKDTVSIIPHRFFITYHG  
GLYISDVQKEDALSTYRCITKHKYSGETRQSNARLSVTDPAESIPTILDGFHSQEVWAG  
HTVELPCTASGYPIPAIRWLKGRPLPADSRWTKRITGLTISDLRTEDSGTYICEVTNTF  
GSAEATGILMVIDPLHVTLPKKLKTGIGSTVILSCALTSPEFTIRWYRNTELVLPEA  
ISIRGLSNETLLITSAQKSHGAYQCFATRKAQTAQDFAIIALEDGTPRIVSSFSEKVVN  
PGEQFSLMCAAKGAPPTVTWALDDEPIVRDGSHTNQYTMSDGTTISHMNVTPQIRDG  
GVYRCTARNLVGSAEYQARINVRGPPSIRAMRNITAVAGRDTLINCRVIGYPYYSIKWYK  
DALLLPDNHRQVVFENGTLKLTVDVQKGMDEGEYLCVLIQPLSISQSVHVAVKVPLLIQ  
PFEFPASIGQLLYIPCVVSSGDMPIRITWRKDGQVIISGSGVTIESKEFMSSLQISSVS  
LKHNGNYTCIASNAATVSRERQLIVRVPPRFVVQPNQDGIYGKAGVLNCSVDGYPPPK  
VMWKHAKGSGNPQQYHPVPLTGRIQILPNSSLLIRHVLEEDIGYYLCQASNGVGTDISKS  
MFLTVKIPAMITSHPNTTIAIKGHAKELNCTARGERPIIIRWEKGDTVIDPDRVMRYAIA  
TKDNGDEVVSTLKLKPADRGDSVFFSCHAINS YGEDRGLIQLTVQEPDPPELEIREVKA  
RSMNLRWTQRFDGNSIITGFDIEYKNKSDSWDFKQSTRNISPTINQANIVDLHPASVYSI

RMYSFNKIGRSEPSKELTISTEEAAPDGPPMDVTLQPVTSSQSIQVTWKAPKKELQNGVIR  
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INATTLEDVPSQPPENVRLSITSDVAVISWSEPPRSTLNGVLKGYRVIFWSLYVDGEWG  
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YLLWVAAVTSAGRGNSSEKVTIEPAGKAPAKIISFGGTVTTPWMKDVRLPCNSVGDPA  
VKWTKDSEDAIPVSMGDHRLIHTNGTLLLRAVKAEDSGYYTCTATNTGGFDTIIIVNLLV  
QVPPDQRLTVSKTSASSITLTWIPGDNGGSSIRGFVLQYSVDNSEWKDVFISSERSF  
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QGWNNGGCPITAIVLEYRPGKTAWQGLRANSSGEVFLTELREATWYELMRACNSAGCG  
NETAQFATLDYDGSTIPPIKSAQGEQDDVKKLFTIGCPVILATLGVALLFIVRKKRKEKR  
LKRLRDAKSLAEMLSKNNRSDFTPVKGPPQGPRLHIDIPRVQLLIEDKEGIKQLGDDKA  
TIPVTDAEFSQAVNPQSFCGTGSLHHPTLIQSTGPLIDMSDIRPGTNPVSRKNVKSAST  
RNRYSQWTLTKQASTPARTLTSWRTVGSQHGVTVTESDSYSASLSQDQDKGRNSMVS  
TESASTYEELARAYEHAKLEEQLQHAKEITECFISDSSDQMTTGTNENADSMSTSMST  
PSEPGICRFTASPPKPQDADRGKNVAVPIPHRANKSDYCNPLYAKSEAFFRKADGREPC  
PVVPPREASIRNLARTYHTQARHLTLDPAKSLGLPHGPAAASTATLPQRTLAMPAPP  
AGTAPPAGPTPAEPPTAPSAAPPAPSTEPPRAGGPHTKMGGSRDSLLEMSTSGVGRSQK  
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>sp|P56555|DSCR4\_HUMAN Down syndrome critical region protein 4 OS=Homo sapiens GN=DSCR4  
PE=2 SV=1

MSLIILTRDDEPRIFTPDSDAASPALHSTSPLPDPASASPLHREEKILPKVCNIVSCLSF  
SLPASPTDGLASPTIITREGQQFWAKCLWKYQLYLHGLHKKSDGRRDKQISASPST

>sp|P55265|DSRAD\_HUMAN Double-stranded RNA-specific adenosine deaminase OS=Homo sapiens  
GN=ADAR PE=1 SV=4

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TPSLPPSLPGLRPRFPVLLASSTRGRQVDIRGVPRGVHLRSQGLQRGFQHPSPRGRSLPQ  
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KKGKLQKEAGTPPLWKIAVSTQAWNQHSGVVRPDGHSQGAPNSDPSLEPEDRNSTSVSED  
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EKICDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQGTTPPIWHLTDKKR  
ERMQIKRNTNSVPETAPAAIPETKRNAEFLTCNIPTSNASNMMVTTEKVENGQEPVIKLE  
NRQEARPEPARLKPPVHYNGPSKAGYVDFENGQWATDDIPDDLNSIRAAPGEFRAIMEMP  
SFYSHGLPRCSYKKLTECQLKNPISGLLEYAQFASQTCEFNMIEQSGPPHEPRFKFQVV  
INGREFPPAEAGSKKQVAKQDAAMKAMTILLEAKAKDSGKSEESSHYSTEKESEKTAESQ  
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SAPSKKQVAKQMAAEEAMKALHGEATNSMASDNQPEGMISESLDNLESMPNKKVRKIGELV  
RYLNTNPVGGLEYARSHGFAAEFKLVDQSGPPHEPKFVYQAKVGGRWFPVCAHKKQKQ  
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LKGETVNDCHAEIISRRGFI RFLYSELMKYNSQTAKDSIFEPAGGKELQIKKTVSFHLY  
ISTAPCGDGFDFKSCSDRAMESTESRHYPVFENPKQKGLRTKVENGEGTIPVESSDIVP  
TWDGIRLGERLRTMSCSDKILRWNVLGLQGALLTHFLQPIYLKSVTLGYLFSQGHLTRAI  
CCRVTRDGSFEDGLRHPFIVNHPKVGRVSIYDSKRQSGKTKETSVNWCLADGYDLEILD

GTRGTVDGPRNELSRVSKKNIFLLFKKLCSFRYRRDLLRLSYGEAKKAARDYETAKNYFK  
KGLKDMGYGNWISKPQEEKNFYLCPV

>sp|Q8TEA8|DTD1\_HUMAN D-tyrosyl-tRNA (Tyr) deacylase 1 OS=Homo sapiens GN=DTD1 PE=1 SV=2  
MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMRKILNLRVFEDESG  
KHWSKSVMDKQYEILCVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPE  
LIKDGKFGAYMQVHIQNDGPVTIELESPAPGTATSDPKQLSKLEKQQQRKEKTRAKGPSE  
SSKERNTPRKEDRSASSGAEGDVSSEREP

>sp|O60941|DTNB\_HUMAN Dystrobrevin beta OS=Homo sapiens GN=DTNB PE=1 SV=1  
MIEESGNKRKTMAEKRQLFIEMRAQNFDVIRLSTYRTACKLRVQKRCNLHLVDIWNMIE  
AFRDNGLNTLDHTTEISVSRLTVISSIYYQLNKRLPSTHQISVEQSIISLLNFMIAAYD  
SEGRGKLTVFSVKAMLATMCGGKMLDKLRYVFSQMSDSNGLMIFSKFDQFLKEVLKLPTA  
VFEGPSFGYTEHSVRTCFPQQRKIMLNMFLLDTMMADPPPQCLVWLPLMHRLAHVENVFHP  
VECSYCRCESMMGFRYRCQQCHNYQLCQNCFWRGHAGGPHSNQHQMKEHSSWKSPAKKLS  
HAISKSLGCVPTREPPHPVFPEQPEKPLDLAHIVPPRPLTNMNDTMVSHMSSGVPTPTKR  
LQYSQDIPSHLADEHALIASYVARLQHCARVLDSPSRLDEEHRLIARYAARLAAEAGNVT  
RPPTDLSFNFDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPSTLLA  
ELRLLRQRKDELEQRMSALQESRRELMVQLEELMKLLKEEEQKQAAQATGSPHTSPTHGG  
GRPMPMPVRSTSAGSTPTHCPQDSLGVGGDVQEAFAGQTRRNLRNDLLVAADSIINTMS  
SLVKELHSAEEGAEEEEKMQNGKDRG

>sp|Q8N5C7|DTWD1\_HUMAN DTW domain-containing protein 1 OS=Homo sapiens GN=DTWD1 PE=1 SV=1  
MSLNPPIFLKRSEENSSKFVETKQSQTTSIASEDPLQNLCLASQEVQLKAQQSGRSKCLK  
CGGSRMFYCYTCYVPVENVPYIEQIPLVKLPLKIDIIKHPNETDGKSTAIHAKLLAPEFVN  
IYTYPCIPEYEEKDHEVALIFPGPQSSISIKDISFHLQKRIQNNVRGKNDDPKPSFKRKR  
TEEQEFCDLNDSCKGTTLKKIIFIDSTWNQTNKIFTDERLQGLLQVELKTRKTCFWRHQ  
KGKPDFTLSTIEAIYYFLVDYHTDILKEKYRGQYDNLLFFYSFMYQLIKNAKCSGDKETG  
KLTH

>sp|Q8N9I9|DTX3\_HUMAN Probable E3 ubiquitin-protein ligase DTX3 OS=Homo sapiens GN=DTX3  
PE=1 SV=2  
MSFVLSRMAACGGTCKNKVTVSKPVWDFLSKETPARLARLREEHRVSILIDGETSDIYVL  
QLSPQGPPPPAPPNGLYLARKALKGLLKEAEKELKKAQRQGELMGCLALGGGGEHPMHRA  
GPPPLRAAPLLPPGARGLP PPPPLPPPLPPRLREEAEEQESTCPICLGEIQNAKTLEKC  
RHSFCEGCITRALQVKACPMCGRFYQQLVGNQPQNGRMLVSKDATLLPSYEKYGTIVI  
QYVFPPGVQGAEHPNPGVRYPGTTRVAYLPDCPEGNKVLTFRKAFDQRLTFTIGTSMTT  
GRPNVITWNDIHHKTSCTGGPQLFGYPDPTYLTRVQEELRAKGITDD

>sp|POCJ86|DU4L3\_HUMAN Double homeobox protein 4-like protein 3 OS=Homo sapiens GN=DUX4L3  
PE=3 SV=1  
MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSRQLRQHRRESRPWPGRGPPEGRRKRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRARHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSQAARAAPALQPSQAAPAEGVSQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQGGVLA  
PPTSQSGSPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASASARQQGMQGIAPSQALQ  
EPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEAAASLEAPLSEEEYRAL  
LEEL

>sp|075879|GATB\_HUMAN Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial  
OS=Homo sapiens GN=GATB PE=1 SV=1

MAAPMLRWGCRRRWAFARVDGGSGCHRRGAPTGSTSNQIRGESSVAQQPLHTAQKTRKGE  
HKWAAVVGLEIHAQISSNSKLSFGSQVRFSAPPNSLVSFFDASLPGTLPVLNRRCEAAV  
MTGLALNCHINKKSLFDRKHYFYADLPAGYQITQQRLPIAVNGSLIYGVCAKKQSQVIP  
KTVRIKQIQLEQDSGKSLHDNLSQTLDLNRAGVGLLEVPLEPDMSCGEEAATAVRELQ  
LILQALGTSQANMAEGQLRVDANISVHHPGEPLGVRTEVKNLSIRFLAKAIDYEIQRQI  
NELENGGEILNETRFSHHKLGCTMSMRDKEGKQDYRFMPEPNLPPLVLYDATSLPAGADP  
QQVINIDQIRETLPELPSVTREKLQQYGMLEHSFTLLNEVGLEFFQNVIKETRAEPK  
KVTSWVLNTFLGYLKQQLAVSESPVTPSALAELLDLLDSRTISSSAKQVFEELWKREG  
KTPGQIVSEKQLELMQDQGALEQLCHSVMEAHPQVVM DVKNRNPRAINKLIGLVRKATQS  
RADPVMIKEILEKKLSL

>sp|A6NHX0|GATL2\_HUMAN GATS-like protein 2 OS=Homo sapiens GN=GATSL2 PE=1 SV=3

MELHILEHRLQVASVAKESIPLFTYGLIKLAFLSSKTRCKFFSLTETPEDYTIIVDEEGF  
LELPSSEHLSVADATWLALNVVSGGGSFSSSQPIGVTKIAKSVIAPLADQNISVFMLSTY  
QTDFILVRERDLPFVTHLSSEFTILRVNGETVAAENLGITNGFVKPKLVQRPVIHPLS  
SPSNRFCVTSLDPDTLPAVATLLMDVMFYSGVSKDPMATGDDCGHIRFFSFSLEIGYISL  
VMDVQTQQRFPNLLFTSASGELWKMVRIGGQPLGFDECGIVAQISEPLAAADIPAYYIS  
TFKFDHALVPEENINGVISALKVSQAEKH

>sp|Q8NAP1|GATS\_HUMAN Putative protein GATS OS=Homo sapiens GN=GATS PE=5 SV=1

MSCRGRGAGGRWNSTSWSTGCKLPASPRRVSRCSPTGLIKLAFLSKTRCKFFSLTETPE  
DYTIIVDEEGFLELPSSEHLSVADATWLALNVVSGGGSFSSSQPIGMTKIAKSVIAPLAD  
QNISVFMLSTYQTDFILVLRDLFPVTHLSSEFTILWSVARL

>sp|P62879|GBB2\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2  
OS=Homo sapiens GN=GNB2 PE=1 SV=3

MSELEQLRQAEQLRNQIRDARKACGDSTLTQITAGLDPVGRIQMRTRRTLGRHLAKIYA  
MHWGTD SRLLSASQDGKLI IWD SYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGLDNI  
CSIYSLKTREGNVRVSRELPGHTGYLSCCRFLDDNQIITSSGDTTCALWDIETGQQT VGF  
AGHSGDVM SLSLAPDGRTFVSGACDASIKLWDVRDSMCRQTFIGHESDINAVAFFPNGYA  
FTTGSDDATCRLFDLRADQELLMYSHDNIICGITSVAFSRSGRLLLAGYDDFNCNIWDAM  
KGDRAGVL AGHDNRV SCLGVTDDGMAVATGSWDSFLKIWN

>sp|Q9UBI6|GBG12\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-  
12 OS=Homo sapiens GN=GNG12 PE=1 SV=3

MSSKTASTNNIAQARRTVQQLRLEASIERIKVSKASADLMSYCEEHARS DPLLIGIPTSE  
NPFKDKKTCIIL

>sp|P63211|GBG1\_HUMAN Guanine nucleotide-binding protein G(T) subunit gamma-T1 OS=Homo  
sapiens GN=GNGT1 PE=1 SV=2

MPVINIEDLTEKDKLKMEVDQLKKEVTLERMLVSKCEEVRDYVEERSGEDPLVKGIPED  
KNPFKELKGGCVIS

>sp|Q9HOR5|GBP3\_HUMAN Guanylate-binding protein 3 OS=Homo sapiens GN=GBP3 PE=1 SV=3

MAPEIHMTGPMCLIENTNGELVANPEALKILSAITQPVVVVAIVGLYRTGKSYLMNKL  
LAGKNGFSLGSTVKSHTKGIWWCVPHPKKPEHTLVLLDTEGLGDVKKGDNQND SWIFTLAV  
LLSSTLVYNSMGITNQAMDQLYYVTELTHRIRSKSSPDENENEDSAD FVSFFPDFVWTL  
RDFSLDLEADGQPLTPDEYLEYSLKLTQGTSQKDKNFNLPRLCIRKFFPKKKCFVFDLPI

HRRKLAQLEKLQDEELDPEFVQQVADFCSYIFSNSKTKTSLGGIKVNGPRLESLVLTYN  
AISRGDLPCMENAVLALAQIENSAAVQKAI AHYDQQMGQKVQLPAETLQELLDLHRVSR  
EATEVYMKNSFKDVLHFLQKKLAAQLDKKRDDFCKQNQEASSDRCSALLQVIFSPLEEEV  
KAGIYSKPGGYCLFIQKLQDLEKKYEEPRKGIQAEEILQTYLKSKEVTDAILQTDQIL  
TEKEKEIEVECVKAESAQASAKMVEEMQIKYQQMMEEKEKSYQEHVKQLTEKMERERAQL  
LEEQEKTLSKLQEQRVLRKERCQGESTQLQNEIQKLQKTLKKKTKRYMSHKLKI

>sp|Q6ZN66|GBP6\_HUMAN Guanylate-binding protein 6 OS=Homo sapiens GN=GBP6 PE=2 SV=1

MESGPKMLAPVCLVENNNEQLLVNQQAIIQILEKISQPVVVAIVGLYRTGKSYLMNHLAG  
QNHGFPLGSTVQSETKGIWMWCVPHPSKPNHTLVLLDTEGLGDVEKGDPKNDSWIFALAV  
LLCSTFVYNSMSTINHQALEQLHYVTELTelikakSSPRPDGVEDSTEFVSFFPDLWTV  
RDFLTLELKLNGHPITEDEYLENALKLIQGNPRVQTSNFPRECIRRFPPKRKCFVDRPT  
NDKDLLANIEKVSEKQLDPKFQEQTNI FCSYIFTHARTKTLREGITVTGNRLGTLAVTYV  
EAINSGAVPCLENAVITLAQRENSAAVQRAADYYSQQMAQRVKLPDITLQELDMHAACE  
REAIAIFMEHSFKDENQEFQKKFMETTMNKKGDFLQNEESSVQYCAKLNELSKGLMES  
ISAGSFVPGGHKLYMETKERIEQDYWQVPRKGVKAKEVFQRFLSQMVIEESILQSDKA  
LTDREKAVAVDRAKKEAAEKEQELLKQKLQEQQQQMEAQDKSRKENIAQLKEKLQMEREH  
LLREQIMMLEHTQKVQNDWLHEGFKKKYEEMNAEISQFKRMIDTTKNDTPWIARTLDNL  
ADELTAILSAPAKLIGHGVKGVSSLFKKHKLPF

>sp|P28472|GBRB3\_HUMAN Gamma-aminobutyric acid receptor subunit beta-3 OS=Homo sapiens  
GN=GABRB3 PE=1 SV=1

MWLAGGRLFGIFSAPVLVAVCCAQSVNDPGNMSFVKETVDKLLKGYDIRLRPDFGGPP  
VCVGMNIDIASIDMVSEVNMDYTLTMYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPD  
TYFLNDKKSFVHGVTVKNRMIRLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIE  
SYGYTTDDIEFYWRGGDKAVTGVERIELPQFSIVEHRLVSRNVVFATGAYPRLSLSFRLK  
RNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGITTVLTMTTINTHLRETLPKI  
PYVKAIDMYLMGCFVFVFLALLEYAFVNYIFFGRGPQRQKLAEKTAKAKNDRSKSESNR  
VDAHGNILLTSLEVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSMPREGHGRFLGDRS  
LPHKKTHLRRRSSQLKIKIPDLTDVNAIDRWSRIVFPFTFSLFNLVWLYYVN

>sp|P78334|GBRE\_HUMAN Gamma-aminobutyric acid receptor subunit epsilon OS=Homo sapiens  
GN=GABRE PE=2 SV=2

MLSKVLPVLLGILLILQSRVEGPQTESKNEASSRDVVYGPQPQPLENQLLSEETKSTETE  
TGSRVGKLPEASRILNTILSNYDHKL RPGIGEKPTVTVTEISVNSLGPLSILDMEYTIDI  
IFSQTYDERLCYNDTFESLVNNGNVSQLWIPDTFFRNSKRTHEHEITMPNQMVRIYKD  
GKVLYTIRMTIDAGCSLHMLRFPMDSHSCPLSFSSFSYPENEMIYKWFKLEINEKNSW  
KLFQFDFTGVSNKTEIITTPVGDFMVMTIFFNVSRRFGYVAFQNYVPSSVTMTLSWVSFW  
IKTESAPARTSLGITSVLTMTTLGTFSRKNFPRVSYITALDFYIAICFVFCFCALLEFAV  
LNFLIYNQTKAHASPKLRHPRINSRAHARTRARSACARQHQAFAVCQIVTTEGSDGEER  
PSCSAQQPPSPGSPGPRSLCSKLACCEWCKRFKKYFCMVPDCEGSTWQQGRLCIHVYRL  
DNYSRVVPVPTFFFFNVLYWLVCLNL

>sp|P60520|GBRL2\_HUMAN Gamma-aminobutyric acid receptor-associated protein-like 2 OS=Homo  
sapiens GN=GABARAPL2 PE=1 SV=1

MKWMFKEDHSLEHRCVESAKIRAKYPDRVPVIVEKVSQSIVDIDKRKYLVPSDITVAQF  
MWIIRKRIQLPSEKAI FLFVDKTV PQSSLTMGQLYEKEKDEDGFLYVAYSGENTFGF

>sp|Q8WZA8|GC224\_HUMAN Putative gastric cancer-related gene 224 protein OS=Homo sapiens  
GN=GCRG224 PE=5 SV=1

MIPGNPSPGADLAVSKHFFSLSWFCGLLLLESKQK

>sp|Q8N6F7|GCSAM\_HUMAN Germinal center-associated signaling and motility protein OS=Homo sapiens  
GN=GCSAM PE=1 SV=1

MGNSLLRENRRQNTQEMPWNVRMQSPKQRTSRCWDHIIAEGCFCLPWKKILIFEKRQDS  
QNERERMSSTPIQDNVDQTYSEELCYTLINHRVLCTRPSGNSAEEYYENVPCKAERPRES  
LGGTETEYSLLHMPSTDPRHARSPEDYEYELLMPHRISSHFLQQPRPLMAPSETQFSHL

>sp|P33402|GCUA2\_HUMAN Guanylate cyclase soluble subunit alpha-2 OS=Homo sapiens  
GN=GUCY1A2 PE=2 SV=1

MSRRKISSESFSSLSGDYLETSPREEGECPLSRLCWNGSRSPGPPEPSPAAAAAAPA  
PTPAASAAAAAATAGARRVQRRRRVNLDLSEGISRLTAPSPQTIQQTLKRTLQYYEHQV  
IGYRDAEKNFHNISNRCSYADHSNKEEIEDVSGILQCTANILGLKFEEIQKRFGEFFNI  
CFHENERVLRAVGGTLQDFNFGFDALLEHIRTSGKQATLESFSLCKELPEGTLMHYF  
HPHHIVGFAMLGMIKAAGKKIYRLDVEVEQVANEKLCSDVSNPGNCSCLTFLIKECENTN  
IMKNLPQGTSQVPADLRISINTFCRAFPFHLMFDPMSVQLGEGLRKQLRCDTHKVLKF  
EDCFEIVSPKVNATFERVLLRLSTPFVIRTKPEASGSENKDKVMEVKGQMIHVPESNSIL  
FLGSPCVDKLDLMGRGLHLSDIPIHDATRDVILVGEQAKAQDGLKKRMDKLKATLERTH  
QALEEEKKKTVDLLYSIFPGDVAQQLWQQQVQARKFDDVTMLFSDIVGFTAICAQCTPM  
QVISMLNELYTRFDHQCGFLDIYKVETIGDAYCVAAGLHRKSLCHAKPIALMALKMMELS  
EEVLTPDGRPIQMRIGIHSGSVLAGVVGVRMPRYCLFGNNVTLASKFESGSHPRRINVSP  
TTYQLLKREESFTFIPRSREELPDNFPKEIPGICYFLEVRTGPKPPKPSLSSSRIKKVSY  
NIGTMFLRETSL

>sp|Q8TB36|GDAP1\_HUMAN Ganglioside-induced differentiation-associated protein 1 OS=Homo sapiens  
GN=GDAP1 PE=1 SV=3

MAERQEEQRGSPPLRAEGKADAEVKLILYHWTHSFSSQKVRLVIAEKALKCEEHDVSLPL  
SEHNPEWFMRLNSTGEVPVLIHGENICEATQIIDYLEQTFLDERTPRLMPDKESMYYP  
VQHYRELLDSLPMDAYTHGCILHPELTVDSMIPAYATTRIRSQIGNTESELKKLAEENPD  
LQEAYIAKQKRLSKLLDHDNVKYLKKILDELEKVLQVETELQRRNEETPEEGQPWLC  
GESFTLADVSLAVTLHRLKFLGFARRNWGNGKRPNLETYYERVLRKTFNKVLGHVNNIL  
ISAVLPTAFRVAKKRAPKVLGTTLVVGLLAGVGAFMLFRKRLGSMILAFRPRPNYF

>sp|P16260|GDC\_HUMAN Graves disease carrier protein OS=Homo sapiens  
GN=SLC25A16 PE=1 SV=3

MAAATAAAALAAADPPPAMPQAAGAGGPTTRRDFYWLRSFLAGGIAGCAKTTVAPLDRV  
KVLLQAHNHHYKHLGVFSALRAVPQKEGFLGLYKNGAMMIRIFPYGAIQMAFEHYKTL  
ITTKLGISGHVHRLMAGSMAGMTAVICTYPLDMVRVRLAFQVKGEHSYTGIIHAFKTIYA  
KEGGFFGFYRGLMPTILGMAPYAGVSFFTFTGLKSVGLSHAPTLGRPSSDNPVNLVLT  
HVNLLCGGVAGAIQATISYPFDVTRRRMQLGTVLPEFEKCLTMRDTPMKYVYGHGIRKGL  
YRGLSLNYIRCIPSAQAVFTTYELMKQFFHLN

>sp|P55107|GDF10\_HUMAN Growth/differentiation factor 10 OS=Homo sapiens  
GN=GDF10 PE=2 SV=1

MAHVPARTSPGPGPQLLLLLLPLFLLLLRDVAGSHRAPAWSALPAAADGLQGDRDLQRHP  
GDAAATLGPSAQDMVAVHMRLEYKYSRQGARGGGNTVRSFRARLEVVDQKAVYFFNLT  
SMQDSEMILTATFHIFYSEPWRPRALEVLCPRAKNASGRPLPLGPPTQHLFRSLSQN  
TATQGLLRGAMALAPPPRWLQAKDISPIVKAARRDGELLSAQLDSEERDPGVPRPSPY

APYILVYANDLAISEPNSVAVTLQRYDPPFAGDPEPRAAPNNSADPRVRRAAQATGPLQD  
NELPGLDERPPRAHAQHFKHQLWPSFPRALKPRPGRKDRRKKGQEVFMAASQVLDfDEK  
TMQKARRKQWDEPRVCSRRYLKVDFADIGWNEWIIISPKSFDAYYCAGACEFPMPIVRPS  
NHATIQSIVRAVGIIPIGPEPCCPDKMNSLGVFLDENRNVVLKVYPNMSVDTCACR

>sp|A6NCL1|GEMC1\_HUMAN Geminin coiled-coil domain-containing protein 1 OS=Homo sapiens  
GN=GMNC PE=1 SV=2

MNTILPCQDQYFVGGSYNCPYSTTTSESSVDVSTETWVSFWAAGLLDNRELQQAPQAQE  
SFSDSNFPLPDLCSWEEAQLSSQLYRNKQLQDTLVQKEEELARLHEENNHLRQYLNLSALV  
KCLEEKAKKLLSSDEFSKAYGKFRKGKRKSKEQRYSPAELPHPKNAKRNLSSEFANCEEQ  
AGPPVDPWVLQTLGLKDLDTIDDTSSANYSALASHPRRVASTFSQFPDDAVDYKNIPRED  
MPIDYRGDRTTPLHSTATHGEDFHLSQLSNPPVGLKTLPYTAHVSPNKTEMAFSTSLS  
PHCNVKTSHFHQGAFFVRRDEEGGWKFTWVPKQS

>sp|Q99684|GFI1\_HUMAN Zinc finger protein Gfi-1 OS=Homo sapiens GN=GFI1 PE=1 SV=2

MPRSFLVKSKKAHSYHQPRSPGPDYSLRLNVPAPSRADSTSNAAGAKAEPRDRLSPESQ  
LTEAPDRASASPDSCGVSVCERSSEFEDFWRPPSPSPASEKSMCPSLDEAQPFLPFK  
PYSWSGLAGSDLRHLVQSYRPGALERGAGLGLFCEPAPEPGHPAALYGPKRAAGGAGAG  
APGSCSAGAGATAGPGLGLYGDGFSAAAGLYERPTAAAGLLYPERGHGLHADKGAGVKVE  
SELLCTRLLLGGGSYKCIKCSKFSTPHGLEVHVRRSHSGTRPFACEMCGKTFGHAVSLE  
QHKAVHSQERSFDCKICGKSFKRSSTLSTHLLIHS DTRPYPCQYCGKRFHQKSDMKKHTF  
IHTGEKPHKCQVCGKAFSQSSNLITHSRKHTGFKPFGCDLCGKGFQRKVDLRRHRETQHG  
LK

>sp|Q6UXV0|GFRAL\_HUMAN GDNF family receptor alpha-like OS=Homo sapiens GN=GFRAL PE=2 SV=2

MIVFIFLAMGLSLENEYTSQTNNCTYLREQCLRDANGCKHAWRVMEDACNDSDPGDPCKM  
RNSSYCNLSIQYLVESNFQFKECLCTDDFYCTVNKLLGKKCINKSDNVKEDKFKWNLTR  
SHHGFGMWSCLEVAEACVGDVVCNAQLASYLKACSANGNPCDLKQCQAIRFFYQNIPF  
NIAQMLAFCDCAQSDIPCCQSKEALHSKTCAVNMVPPPTCLSVIRSCQNDEL CRRHYRTF  
QSKCWQRVTRKCHEDENCISTLSKQDLTCSGSDCKAAYIDILGTVLQVQCTCRTITQSE  
ESLCKIFQHMLHRKSCFNYP TLSNVKGMALYTRKHANKITLTGFHSPFNGEVIYAAMCMT  
VTCGILLLV MVKLRTSRIS KARDPSSI QIPGEL

>sp|A6NEM1|GG6L9\_HUMAN Golgin subfamily A member 6-like protein 9 OS=Homo sapiens  
GN=GOLGA6L9 PE=2 SV=4

MWPQPRLPHPHAMPSEKTQQGKLAAAKKKLKAYWQRKSPGIPAGANRKKKINGSSPDFTS  
GGYHSPGDSATGIYGEGRASSTTLQDLESQYQELAVALDSSSAIIISQLTENINSLVRTSK  
EEKKHEIHLVQKLGRSLFKLNQTAELAPQPPAGPSKMEQLQDET NHLRKELESVGRQL  
QAEVENNQMLSLNRRQEERLREQEERLREQEERLCEQEERLCEQEERLREQEERLCEQE  
KLPGQERLLEEVEKLLEQERRQEEQERLLERERLLDEVEELLEQERLRQQDERLWQQETL  
RELERLRELERMLELGWEALYEQRAEPRSGFEELNENKSTLQLEQQVKELEKSGGAEEP  
RGSESAAAARPVAGAPVPQGAWMCGQAGWTPQEHPLSGEAVGTGEAAGGAGEAACHSFR  
AAENRELNITII

>sp|HOYM25|GG6LV\_HUMAN Golgin subfamily A member 6-like protein 22 OS=Homo sapiens  
GN=GOLGA6L22 PE=3 SV=1

MLMWPQPHLPTHPLPTHPLPTHPLPTHPLTHPMMSKETRQSKLAEAKEQ  
LTDHHPQTNPSVGTAASDTKKKKINNGTSPETTTSGGCHSPEDEQKASHQHQEALRRELE  
AQVHTIRILTCQKTELQMALYYSHAVKQLEGEARDLISRLHDSWKFAGELEQALS AVTT



QKKKADRYIEELTKERDALSLELYRNTITDEELKEKNAKLQEKQLVESEKSEIQLNVKE  
LKRKLERAKLLLPQQQLQAEADHLGKELQSVSAKLQAQVEENELWNRLNQQQEEKMWRQE  
EKIQEWEEKIQEQEEKIREQEEKIREQEEKMRRQEEMMWEKEEKMRRQEEMMWEKEEKIR  
ELEKMHEQEKIREQEEKRQEEKIREQEKRQEQAAMWRQEEKIREQEEKIREQEEKMW  
RQEEKIHEQEKIREEEKRQEQEEMWRQEEKIREQEEIWRQKEKMHEQEEKIRKQEEKVWR  
QEEKMHDQEEKIREQEEKVWRQEEKIREQEKKREQEEKMWRQEEKIREQEEKIREQEEMW  
REEKMHEQEKIWEEEKRQEQEDKMWRQEEKIREQEEKVWRQEEKIREQEEKRQEQEEKM  
WKQEEKIREQEEKIREQEEKIREQEEKIREQEEMMQEQEEKMGEQEEKMQEQEKMRQEE  
KIREQEEKIREQEKIREQEEKIWEQEEKIREQEEMMQEQEEKMGEQEEKIWEQEEKMQE  
QEEKMRRQEEKIREQEKKIREQEEKIREQEEMMQEQEEKMGEQEEKMQEQEEKMRRQEEK  
IREQEKKIREQEEKIREQEEMMQEQEEKMWEQEEKMCEQEEKMQEQEEKMRRQEEKMWEQ  
EVRLRQEQEEKMQEH

>sp|Q9UJY5|GGA1\_HUMAN ADP-ribosylation factor-binding protein GGA1 OS=Homo sapiens  
GN=GGA1 PE=1 SV=1

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQE  
WEAIQALTVLETCKMCKGRFHDVEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLY  
SWTVGLPEEVKIAEAYQMLKKQGIKSDPKLPDDTTFPLPPRPKNVIFEDEEKSKMLAR  
LLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNVKLLTEMVMSHSQGGA  
AAGSSEDLMKELYQRCERMPTLFRLASDTEDEALAEILQANDNLTQVINLYKQLVRG  
EEVNGDATAGSIPGSTSALLDLSGLDLPAGTTPAMPTRPGEQASPEQPSASVSLDDE  
LMSLGLSDPTPPSGPSLDGTGWSFQSSDATEPPAPALAQPSMESRPPAQTSLPASSGL  
DDLDDLKGKTLQQLPPESSQVRWEKQQTPTPRLTLRDLQNKSSSCSSPSSSATSLLHTVS  
PEPPRPPQPVPTSLASITVPLESIKPSNIPVTVDQHGFRILFHFARDPLPGRSDV  
LVVVVSMSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPAFNPIVHPSAITQVLLAN  
PQKEKVRLRYKLTFMGDQTYNEMGDVDQFPPPETWGS

>sp|Q9H3C7|GGNB2\_HUMAN Gametogenetin-binding protein 2 OS=Homo sapiens GN=GGNB2 PE=1  
SV=1

MARLVAVCRDGEFFPFERRQIPLYIDDTLTMVMEFPDNLNLDGHQNNGAQLKQFIQRH  
GMLKQQLDSIAMVTSREVLSALSQLVPCVGCRRSVERLFSQLVESGNPALEPLTVGPKG  
VLSVTRSCMTDAKKLYTLFYVHGSKLNDMIDAIPKSKKNKRCQLHSLDTHKPKPLGGCWM  
DVWELMSQECRDEVVLIDSSCLETLETYLKRHRFCTDCKNKVLRAYNILIGELDCSKEK  
GYCAALYEGLRCCPHERHIHVCCETDFIAHLLGRAEPEFAGGRERHAKTIDIAQEEVLT  
CLGIHLIERLHRIWQKLRAEEQTWQMLFYLGVDALRKSFEMTVEKVQGISRLEQLCEEFS  
EEERVRELKQEKKRQKRKNRRKNKCVCDIPTPLQTADKEVSEKETDFIENSSCKACGS  
TEDGNTCEVIVTNTENTSCTCPSSGNLLGSPKIKKGLSPHCNGSDCGYSSSMEGSETGSR  
EGSDVACTEGICNHDEHGDDSCVHHCEDKEDGDSCVECWANSEENDTKGKNKKKKKSK  
ILKCEHIQKLGSCITDPGNRETSGNTMHTVFHRDKTKDTHPESCCSSEKGGQPLPWFEH  
RKNVPQFAEPTETLFGPDSGKGAKSVELLDESECTSDEEIFISQDEIQSFMANNQSFYS  
NREQYRQHLKEKFNKYCRLNDHKRPICSGWLTAGAN

>sp|Q9UBU3|GHRL\_HUMAN Appetite-regulating hormone OS=Homo sapiens GN=GHRL PE=1 SV=1

MPSPGTVCSSLLLGLWDLAMAGSSFLSPEHQRVQQRKESKPPAKLQPRALAGWLRPE  
DGGQAEGADELEVRFNAPFDVGIKLSGVQYQQHSQALGKFLQDILWEEAKEAPADK

>sp|Q8WWP7|GIMA1\_HUMAN GTPase IMAP family member 1 OS=Homo sapiens GN=GIMAP1 PE=1 SV=1

MGGRKMATDEENVYGLEENAQSRQESTRRLILVGRGTGAGKSATGNSILGQRRFFSRLGAT

SVTRACTTGSRRWDKCHVEVVDTPDIFSSQVSKTDPGCEERGH CYLLSAPGPHALLLVLTQ  
LGRFTAQDQQAVRQVRDMFGEDVLKWMVIVFTRKEDLAGGSLHDYVSNTENRALRELVAE  
CGGRVCAFDNRATGREQEAEQVQLLGMVEGLVLEHKGAHYSNEVYELAQVLRWAGPEERL  
RRVAERVAARVQRRPWGAWLSARLWKWLKSPRSWRLGLALLLGGALLFWVLLHRRWSEAV  
AEVGPD

>sp|Q6P9H5|GIMA6\_HUMAN GTPase IMAP family member 6 OS=Homo sapiens GN=GIMAP6 PE=2 SV=1  
MEEEEYEQIPQENPPEELSQDPVLELSGGLREKEQKTPRRLRLILMGKTGSGKSATGNSI  
LGRDVFESKLSTRPVTKTSQRRSREWAGKELEVIDTPNILSPQVSPEVADAICQAIVLSA  
PGPHAVLLVTQLGRFTDEDQQVVRRLQEVFGVGVLTGHTILVFTRKEDLAGGSLEDYVRET  
NNQALAWLDVTLARRHCGFNNAQGEEQEAQLRELMEKVEAIMWENEGDYYSNKAYQYTQ  
QNFRLKELQERQVSQGGSEDVPGESWLEGLS QIQKESEEAHRCLLGKADL

>sp|PODJR0|GIMD1\_HUMAN GTPase IMAP family member GIMD1 OS=Homo sapiens GN=GIMD1 PE=2 SV=1  
MTDPNKMIIINALFGMTQSGKSSAGNILLGSTDFHSSFAPCSVTTCSSLGRSCHLHFSMR  
RGGLEVALQVQVLDTPGYPHSRLSKKYVKQEVKEALAHHFQGGGLHLALLVQRADVPFCG  
QEVTDVPQMIQELLGHAWMNYTAILFTHAEKIEEAGLTEDKYLHEASDTLKTLLNSIQHK  
YVFQYKKGKSLNEQRMKILERIMEFIKENCYQVLTFK

>sp|Q9NXP7|GIN1\_HUMAN Gypsy retrotransposon integrase-like protein 1 OS=Homo sapiens  
GN=GIN1 PE=1 SV=3

MVRSGKNGDLHLKQIAYYKRTGEYHSTTLPSERSGIRRAAKKFVFKEKKLFYVGKDRKQN  
RLVIVSEEEKKKVLRECHENDSGAHHGISRTLTLVESNYYWTSVTNDVKQWVYACQHCQV  
AKNTVIVAPKQHLKVENPWSLVTVDLMGPFHTSNRSHVYAIIMTDLFTKWIVILPLCDV  
SASEVSKAIINIFLYGPPQKIIMDQRDEFIQQINIELYRLFQIKQIVISHTSGTVNPTE  
STPNTIKAFLSKHCADHPNNWDDHLSAVSFANVTHLEPTKNTPYFQMFSRNPYPETSD  
SLHEVDGDNTSMFAKILDAIKEADKIMENKTTSLGQMENNNDDELNKSIIIVKKKPKQLN  
PFHLKVGHEVLRQRKNWWDGRFQSEWVGPCVIDYITESGCAVLRDNTGVRLKRPKIMSH  
LKPYIRESSEQESLYLLQGSVVADHDYIGLPEIPIGAYQANILVEDATIGIVDNELLTSS  
KDRELLEYRNTKISPLIDHSSLEKQTFSLDSSNQVLEYLS

>sp|Q9NU53|GINM1\_HUMAN Glycoprotein integral membrane protein 1 OS=Homo sapiens GN=GINM1  
PE=2 SV=1

MEGAPPGSLALRLLLFVALPASGWLTTGAPEPPPLSGAPQDGIRINVTTLKDDGDISKQQ  
VVLNITYESGQVYVNDLPVNSGVTRISCTLIVKNENLENLEEKEYFGIVSVRILVHEWP  
MTSGSSLQLIVIQEEVVEIDGKQVQKDVTEIDILVKNRGVLRHSNYTLPLEESMLYSIS  
RDSIDILFTLPNLSKKESVSSLQTTSSQYLIRNVETTVDVLPGLPETPLRAEPPSSYKV  
MCQWMEKFRKDLCRFWSNVFPVFFQFLNIMVVGITGAAVVITILKVFFPVSEYKGILQLD  
KVDVIPVTAINLYPDGPEKRAENLEDKTCI

>sp|P09681|GIP\_HUMAN Gastric inhibitory polypeptide OS=Homo sapiens GN=GIP PE=1 SV=1  
MVATKTFALLLSLFLAVGLGEKKEGHFSALPSLPVGSNAKVSSPQPRGPRYAEGTFISD  
YSIAMDKIHQQDFVNWLLAQKGGKNDWKHNITQREARALELASQANRKEEEAVEPQSSPA  
KNPSDEDLRLDLIQELLACLLDQTNLCRLRSR

>sp|Q6EEV4|GL1AD\_HUMAN DNA-directed RNA polymerase II subunit GRINL1A, isoforms 4/5  
OS=Homo sapiens GN=POLR2M PE=1 SV=1

MATPARAPESPPSADPALVAGPAEEAECPPPRQPQPAQNVLAAPRLRAPSSRGLGAAEFG  
GAAGNVEAPGETFAQRVSWGPAESPPGFSFSSSLGAPLPSRTLFPSELEGDFDSVTFASVL  
RASGRRACCGRAVPLPGQKIHLQIARQR

>sp|Q8NCI6|GLBL3\_HUMAN Beta-galactosidase-1-like protein 3 OS=Homo sapiens GN=GLB1L3 PE=2 SV=3

MKSPPLLSPLCSWKRMAGIFFLPFISSGFAPRFKQEENFMLGRAHPSQPRFNWSHLTPLE  
LKNRSVGLGTESTGRGKPHFTLEGHKFLIFGGSIIHYFRVPREYWRDRLKLKACGFNTVT  
TYVPWNLHEPERGKFDGSGNLDLEAFVLMAAEIGLWVILRPGRYICSEMDLGGLP SWLLQ  
DPRLLLRTTNKSFIEAVEKYFDHLIPRVIPLQYRQAGPVIAVQVENEYGSFNKDKTYMPY  
LHKALLRRGIVELLTSDGEKHLVSGHTKGVLAAILNLQKLHQDTFNQLHKVQRDKPLLIM  
EYWVGWFDRWGDKHHVKDAKEVEHAVSEFIKYEISFNVMFHHGGTNFGFMNGATYFGKHS  
GIVTSYDYDAVLTEAGDYTEKYLKQLKFQSVSATPLPRVPKLPKAVYPPVPRSLYLPL  
WDALSYLNEPVRSRQPVNMENLPINNGSGQSYGLVLYEKSICSGGRLRAHAHDVAQVFLD  
ETMIGILNENNKDLHIPELRDCRYLRILVENQGRVNFWSQIQNEQKGITGSVSINNSSLE  
GFTIYSLEMKMSFFERLRSATWKPVPDSSHQGPAYFCGTLKAGPSPKDTFLSLLNWNYG FV  
FINGRNLGRYWNIGPQKTLYLPGVWLHPEDNEVILFEKMMMSGSDIKSTDKPTL

>sp|Q8IVS8|GLCTK\_HUMAN Glycerate kinase OS=Homo sapiens GN=GLYCK PE=1 SV=1

MAAALQVLPRLARAPLHPLLWRGSVARLASSMALAEQARQLFESAVGAVLPGPMLHRALS  
LDPGGRQLKVRDRNFQLRQNLVYVGFGKAVLGMAAAAEELLGQHLVQGVISVPKGIRAAM  
ERAGKQEMLLKPHSRVQVFEGAEDNLPDRDALRAALAIQQLAEGLTADDLLLVLISGGGS  
ALLPAPIPPVTLEEKQTLTRLLAARGATIQELNTIRKALSQKGGGLAQAAYPQVVS LI  
LSDVVGDPVEV IASGPTVASSHNVDCLHILNRYGLRAALPRSVKTVLSRADSDPHGPHT  
CGHVLNVIIGSNVLALAEARQAEALGYQAVVLSAAMQGDVKSMQAFYGLLAHVARTRLT  
PSMAGASVEEDAQLHELAAELQIPDLQLEEALETMAWGRGPVCLLAGGEPTVQLQGSGRG  
GRNQELALRVGAELRRWPLGPIDVLFSLGGTDGQDGPTEAAGAWVTPELASQAAAEGLDI  
ATFLAHNDSHTFFCCLQGGAHLLHTGMTGTNVMDTHLLFLRPR

>sp|Q6PIY7|GLD2\_HUMAN Poly(A) RNA polymerase GLD2 OS=Homo sapiens GN=PAPD4 PE=1 SV=1

MFPNSILGRPPFTPNHQHNNFFTLSP TVYSHQQLIDAQNFQNA DLSRAVSLQQLTYGN  
VSP IQTSASPLFRGRKRLSDEKNLPLDGKRQRFHSPHQEPTVVNQIVPLSGERRY SMPPL  
FHTHYVPDIVRCVPPFREIAFLEPREITLPEAKDKLSQQILELFETCQQQISDLKKKELC  
RTQLQREIQLLFPQSRLFLVGSSLNFGTRSSDGDLC LVVKEEPCFFQVNQKTEARHILT  
LVHKKHFCRLSGYIERPQLIRAKVPIVKFRDKVSCVEFDLNVNNIVGIRNTFLLRTYAYL  
ENRVRPLVLVIKKWASHHQINDASRGTLSYSLVLMVLHYLQTLPEPILPSLQKIYPESF  
SPAQLHLVHQAPCNVPPYLSKNESNLGDL LLGFLKYYATEFDWNSQMISVREAKAIPRP  
DGIERNKYICVEEPDGTNTARAVHEKQKFDMIKDQFLKSWHRLKNKRDLNSILPVRAA  
VLKR

>sp|Q9NU39|FX4L1\_HUMAN Forkhead box protein D4-like 1 OS=Homo sapiens GN=FOXD4L1 PE=2 SV=1

MNLPRERPRSTPQRSRLRSDGEDGKIDVLGEEDEDEVEDEEEASQKFLEQSLQPGLQ  
VARWGVALPREHIEGGGSDPSEFGTEFRAPPRSAASEDARQPAKPPYSYIALITMAI  
LQSPHKRLTLSGICAFISGRFPYRKRKPAWQNSIRHNLSLND CFVKIPREPGHPGKGTY  
WSDPASQDMFDNGSFLRRRKRFRHQLTPGAHLPHFPPLPAAHAALHNPRPGPLLGA PA  
LPQVPVGAYPNTAPGRRPYALLHPPHPRYLLSAPAYAGAPKKAEGADLATPGTLPVLQP  
SLGPQPWEEGKGLASPPGGGCISFSIESIMQGVRGAGTGAAQSLSPTAWSYCP LLQRPSS  
LSDNFAATAAASGGGLRQLRSHQGRGAGRAPVGRVGAAAVSGGGRL

>sp|P51116|FXR2\_HUMAN Fragile X mental retardation syndrome-related protein 2 OS=Homo sapiens GN=FXR2 PE=1 SV=2

MGGLASGGDVEPGLPVEVRGSNGAFYKGFVKDVHEDSVTIFFENNWQSERQIPFGDVRLP  
PPADYNKEITEGDEVEVYSRANEQEP CGWWLARVRMMKGFYVIEYAACDATYNEIVTLE  
RLRPVNPPLATKGSFFKVTMAVPEDLREACSNENVHKEFKKALGANCIFLNITNSELF  
LSTTEAPVKRASLLGDMHFRSLRTKLLMSRNEEATKHLETSKQLAAAFQEEFTVREDLM  
GLAIGTHGANIQARKVPGVTAIELGEETCTFRIYGETPEACRQARSYLEFSEDSVQVPR  
NLVGKVIKNGKVIQEIVDKSGVVRVRVEGDNDKKNPREEGMVPFIFVGTRENISNAQAL  
LEYHLSYLQEVEQLRLERLQIDEQLRQIGLGRPPGSGRSGGSDKAGYSTDESSSSSLH  
ATRTYGGSYGGRGRGRTGGPAYGPSSDVSTASETESEKREEPNRAGPGDRDPTRGEES  
RRRPTGGRGRGPPAPRPTSRYNSSSISSVLKDPDSNPYSLLDTSEPEPPVDSEPGEP  
ASARRRRSRRRTDEDRTVMDGGLES DGNMTENGLEDESRPQRRNRSRRRRNRGNRTDG  
SISGDRQPVTADYISRAESQSRQRPPLERTKPSEDSLSGQKGDVSVSKLPKGPSENGELS  
APLELGSMVNGVS

>sp|Q96CU9|FXRD1\_HUMAN FAD-dependent oxidoreductase domain-containing protein 1 OS=Homo sapiens GN=FOXRED1 PE=1 SV=2

MIRRVLP HGMGRGLLTRPGTRRGFSLDWDGKVSEIKKKIKSILPGRSCDLLQDTSHLP  
PEHSDVIVGGGVLGLSVAYWLKKLESRRGAIRVLVVERDHTYSQASTGLSVGGICQQFS  
LPENIQLSLFSASFRLRNINEYLAVVDAPPLDLRFNPSGYLLASEKDAAAMESNVKVQRQ  
EGAKVSLMSPDQLRNKFPWINTEGVALASYGMEDEGWFDPWCLLQGLRRKVQSLGVLFCQ  
GEVTRFVSSSQRLTDDKAVVLKRIHEVHVKMDRSLEYQPVECAIVINAAGAWSAQIAA  
LAGVGEGPPGTLQGTKLPVEPRKRYVYVWHCPQGPLETPLVADTSGAYFRREGLGSNYL  
GGRSPTEQEEPDPANLEVDHDFQDKVWPHLALRVPAFETLKVQSAWAGYYDYNTFDQNG  
VVGPHPLVVNMYFATGFSGHGLQQAPGIGRAVAEMVLKGRFQTIDLSPFLFTRFYLG EKI  
QENNII

>sp|P59646|FXYD4\_HUMAN FXYD domain-containing ion transport regulator 4 OS=Homo sapiens GN=FXYD4 PE=3 SV=2

MERVTLALLLLAGLTALEANDPFANKDDPFYDWKNLQLSGLICGLLAIAAGIAAVLSGK  
CKCKSSQKQHSPVPEKAIP LITPGSATTC

>sp|Q9UN86|G3BP2\_HUMAN Ras GTPase-activating protein-binding protein 2 OS=Homo sapiens GN=G3BP2 PE=1 SV=2

MVMEKPSPLLVGREFVRQYYTLLNKAPEYLHRFYGRNSSYVHGGVDASGKPQEAVYGQND  
IHHKVLSLNFSECHTKIRHVDAHATLSDGVVVQVMGLSNSGQPERKFMQTFVLAPEGSV  
PNKFYVHNDMFRYEDEVFGDSEPELDEESEDEVEEEQEERQPSPEPVQENANSGYE AHP  
VTNGIEEPLEESSHEPEPEPESETKTEELKPQVEEKNLEEL EEKSTPPPAEPVSLPQEP  
PKAFSWASVTSKNLPPSGTVSSSGIPPHVKAPVSQPRVEAKPEVQSQPPRVREQRPRERP  
GFPPRGPRPGRGDMEQNDSDNRRIIRYPDSHQLFVGNLPHDIDENELKEFFMSFGNVVEL  
RINTKGVGGKLPNFGFVVFDDSEPVQRILIAKPIMFRGEVRLNVEEKKTRAARERETRGG  
GDDRRDIRRNDRGP GPRGIVGGGMMRDRDGRGPPRGGMAQKLGSGRGTGQMEGRFTGQ  
RR

>sp|Q96RP7|G3ST4\_HUMAN Galactose-3-O-sulfotransferase 4 OS=Homo sapiens GN=GAL3ST4 PE=1 SV=1

MGPLSPARTLRLWGPRSLGVALGVFMTIGFALQLLGGPFQRRLPGLQLRQPSAPSLRPAL  
PSCPPRQRLVFLKTHKSGSSSVLSLLHRYGDQHGLRFALPARYQFGYPKLFQASRVKGYR  
PQGGGTQLPFHILCHHMRFNLKEVLQVMPSDSFFFFSIVRDP AALARS AFSYYKSTSSAFR  
KSPSLAAFLANPRGFYRPGARGDHYARNLLWFDGLPFPPEKRAKRGNIHPPRDPNPPQL

QVLPSGAGPRAQTLNPNAL IHPVSTVTDHRSQISSPASFDLGSSSFIQWGLAWLDSVFDL  
VMVAEYFDESLVLLADALCWGLDDVVGMHNAQAGHKQGLSTVSNSGLTAEDRQLTARAR  
AWNLDWALYVHFNRSLWARIEKYQGRLQTAVAELRARREALAKHCLVGGEASDPKYIT  
DRRFRPFQFGSAKVLGYILRSGLSPQDQEECERLATPELQYKDKLDAKQFPPTVSLPLKT  
SRPLSP

>sp|O43903|GAS2\_HUMAN Growth arrest-specific protein 2 OS=Homo sapiens GN=GAS2 PE=1 SV=1  
MCTALSPKVRSGPLSDMHQYSQWLASRHEANLLPMKEDLALWLTNLLGKEITAETFMEK  
LDNGALLCQLAETMQEKFESMDANKPTKNLPLKKIPCKTSAPSGSFFARDNTANFLSWC  
RDLGVDETCLFESEGLVLHKQPREVCLLLELGRIAARYGVEPPGLIKLEKEIEQEETLS  
APSPSPSPSSKSSGKKSTGNLLDDAVKRISEDPPCKCPNKFVERLSQGRYRVGEKILFI  
RMLHNKHVMVRVGGGWETFAGYLLKHDP CRMQLQISRVDGKTSPIQSKSPTLKDMNPDNYL  
VVSASYKAKKEIK

>sp|Q14393|GAS6\_HUMAN Growth arrest-specific protein 6 OS=Homo sapiens GN=GAS6 PE=1 SV=2  
MAPSLSPGPAALRRAPQLLLLLLAAECALAALLPAREATQFLRPRQRRAFQVFEEAKQGH  
LERECVEELCSREEAREVFENDPETDYFYPRYLDCKINKYGSPTKNSGFATCVQNLPDQC  
TPNPCDRKGTQACQDLMGNFFCLCKAGWGGRLCDKDVNECSQENGGCLQICHNKPGSFHC  
SCHSGFELSSDGRTCQDIDECADSEACGEARCKNLPGSYSCLCDEGFAYSSQEACRDVD  
ECLQGRCEQVCVNSPGSYTCHCDGRGGLKLSQDMDTCELEAGWPCPRHRRDGSPAARPGR  
GAQGSRSEGHIPDRRGPRPWQDILPCVPFSVAKSVKSLYLGRMFSGTPVIRLRFKRLQPT  
RLVAEFDFTFDPEGILLFAGGHQDSTWIVLALRAGRLELQLRYNGVGRVTSSGPVINHG  
MWQTISVEELARNLVIKVNRDAVMKIAVAGDLFQPERGLYHLNLTVGGIPFHEKDLVQPI  
NPRLDGCMRSWNWLNGETTTIQTVKVNTRMQCFSVTERGSFYPGSGFAFYSLDYMRTPL  
DVGTESTWEVEVVAHIRPAADTGVLFAWAPDLRAVPLSVALVDYHSTKKLKKQLVVLAV  
EHTALALMEIKVCDGQEHVTVSLRDGEATLEVDGTRGQSEVSAAQLQERLAVLERHLRS  
PVLTFAGGLPDVPVTSAPVTA FYRGCMTLEVNRRLLDLDEAAKHS DITAHSCPPVEPAA  
A

>sp|O95995|GAS8\_HUMAN Growth arrest-specific protein 8 OS=Homo sapiens GN=GAS8 PE=1 SV=1  
MAPKKKGKKGKAGTPIVDGLAPEDMSKEQVEEHVSRIREELDREREERNYFQLERDKIH  
TFWEITRRQLEEKKAELRNKDREMEAEERHQVEIKVYKQKVHLLYEHQNNLTEMKAEG  
TVVMKLAQKEHRIQESVLRKDMRALKVELKEQELASEVVKNLRLKHTEEITRMRNDFER  
QVREIEAKYDKMKMLRDELDRRKTELHEVEERKNGQIHTLMQRHEEAFTDIKNYYNDI  
TLNNLALINSLKEQMEDMRKKEDHLEREMAEVSGQNKRLADPLQKAREEMSEMQLANY  
ERDKQILLCTKARLKVREKELKDLQWEHEVLEQRFTKVQQRDELRYKFTAAIQEVQKKT  
GFKNLVLERKLQALSAAVEKKEVFNEVLAASNLDPAALTLVSRKLEDVLESKNSTIKDL  
QYELAQVCKAHNDLLRTYEAKLLAFGIPLDNVGFKPLETAVIGQTLGQGPAGLVGTPT

>sp|P23769|GATA2\_HUMAN Endothelial transcription factor GATA-2 OS=Homo sapiens GN=GATA2  
PE=1 SV=3

MEVAPEQPRWMAHPAVLNAQHPDSSHPLAHNYMEPAQLLPPDEVDFVFNHLD SQGNPYY  
ANPAHARARVSYSPA HARLTGGQMCRPHLLHSPGLPWLDGGKAALSAAAAHHNPNWTVSP  
FSKTPLHPSAAGPGGPLSVYPGAGGGSGGSGSVASLTPTAAHSGSHLFGFPPTPPKE  
VSPDPSTTGAASPASSSAGGSAARGEDKDGVKYQVSLTESMKMESGSPLRPGLATMGTQP  
ATHHPIPTPSYVPAAHYSSGLFHPGGFLGGPASSFTPKQRSKARSCSEGRECVNCGA  
TATPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTCCANCQTTTTTLW  
RRNANGDPVCNACGLYYKLHNVNRPLTMKKEGIQTRNRKMSNKS KSKKGAECFEELSKC

MQEKSSPFSAAALAGHMAPVGHLPPFSHSGHILPTPTPIHPSSSLSFHGHPSSMVTAMG

>sp|P23771|GATA3\_HUMAN Trans-acting T-cell-specific transcription factor GATA-3 OS=Homo sapiens GN=GATA3 PE=1 SV=1

MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHV  
PPYYGNSVRATVQRYPPTHHGSQVCRPPLLHGSLPWLDGGKALGSHHTASPWNLSPFST  
SIHHGSPGPLSVYPPASSSSSLSGGHASPHLFTFPPTPPKDVSPDPSLSTPGSAGSARQDE  
KECLKYQVPLPDMSMKLESSHSRGSMTALGGASSSTHHPITTYPPYVPEYSSGLFPPSSLL  
GGSPTGFGCKSRPKARSSTGRECVNCGATSTPLWRRDGTGHYLCNACGLYHKMNGQNRPL  
IKPKRRLSAARRAGTSCANCQTTTTTLWRRNANGDPVCNACGLYYKLHNINRPLTMKKEG  
IQTRNRKMSSKSKCKKVHDSLEDFPKNSSFNPAALSRHMSSLSHISPFSSHMLTTPT  
PMHPPSSLSFGPHHPSSMVTAMG

>sp|Q8WTX7|GATL3\_HUMAN GATS-like protein 3 OS=Homo sapiens GN=GATSL3 PE=1 SV=1

MELHILEHRVRVLSVARPGLWLYTHPLIKLLFLPRRSRCKFFSLTETPEDYTLMVDEEGF  
KELPPSEFLQVAEATWLVLNVSSHGAAGVTKIARSVIAPLAHHVSVLMLSTYQT  
DFILVREQDLSVVIHTLAQEFDIYREVGGEPVPVTRDDSSNGFPRTQHGPSPTVHPIQSP  
QNRFCVLTLDPETLPAIATTLIDVLFYSHSTPKEAASSSPEPSSITFFAFSLIEGYISIV  
MDAETQKKFPSDLLLTSSSGELWRMVRIGGQPLGFDECGIVAQIAGPLAAADISAYYIST  
FNFHDHALVPEDGIGSVIEVLQRRQEGLAS

>sp|P50151|GBG10\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-10 OS=Homo sapiens GN=GNG10 PE=1 SV=1

MSSGASASALQRLVEQLKLEAGVERIKVSQAAAELQQYCMQNACKDALLVGVPAGSNPFR  
EPRSCALL

>sp|O60262|GBG7\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-7 OS=Homo sapiens GN=GNG7 PE=1 SV=1

MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFK  
DKKPCIIL

>sp|P18505|GBRB1\_HUMAN Gamma-aminobutyric acid receptor subunit beta-1 OS=Homo sapiens GN=GABRB1 PE=2 SV=2

MWTVQNRESLGLLSFPVMITMVCCAHSTNEPSNMSYVKETVDRLLKGYDIRLRPDFGGPP  
VDVGMRIDVASIDMVSEVNMDYTLTMYFQQSWKDKRLSYSGIPLNLTDNRVADQLWVPD  
TYFLNDKKSFFVHGVTVKNRMIRLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIE  
SYGYTTDDIEFYWNGGEGAVTGUNKIELPQFSIVDYKMVSKKVEFTTGAYPRLSLSFRLK  
RNIGYFILQTYMPSTLITILSWVSFWINYDASAARVALGITTTLTMTTISTHLRETLPKI  
PYVKAIDIYLMGCFVFVFLALLEYAFVNYIFFGKGPQKKGASKQDQSANEKNKLEMNKVQ  
VDAHGNILLSTLEIRNETSGSEVLTSVSDPKATMYSYDSASIYRKPLSSREAYGRALDR  
HGVPSKGRIRRRASQLKVKIPDLTDVNSIDKWSRMFFPITFSLFNVVWLYYVH

>sp|O14764|GBRD\_HUMAN Gamma-aminobutyric acid receptor subunit delta OS=Homo sapiens GN=GABRD PE=1 SV=2

MDAPARLLAPLLLLCAQQLRGTRAMNDIGDYVGSNLEISWLPNLDGLIAGYARNFRPGIG  
GPPVNVALALEVASIDHISEANMEYTMVFLHQSWRDSRLSYNHTNETLGLDSRFVDKLW  
LPDTFIVNAKSAWFHDVTVENKLIRLQPDGVILYSIRITSTVACMDLAKYPMDEQECML  
DLESYGYSSEDIVYYWSESQEHIHGLDKLQLAQFTITSYRFTTELMNFKSAGQFPRLSLH  
FHLRRNRGVYIIQSYMPSVLLVAMSWVSFWISQAAVPAVSLGITTTLTMTLMVSARSS  
LPRASAIKALDVYFWICYVVFVFAALVEYAFAHFNADYRKKQKAKVKVSRPRAEMDVRNAI

VLFSLSAAGVTQELAISRRQRRVPGNLMGSYRSVGVETGETKKEGAARSGGQGGIRARLR  
PIDADTIDIYARAVFPAAFAAVNVIYWAAYAM

>sp|Q9H0R8|GBRL1\_HUMAN Gamma-aminobutyric acid receptor-associated protein-like 1 OS=Homo sapiens GN=GABARAPL1 PE=1 SV=1

MKFQYKEDHPFEYRKKEGEKIRKKYPDRVPVIVEKAPKARVPDLDRKYLVPSDLTVGQF  
YFLIRKRIHLRPEDALFFFVNNTIPPTSATMGQLYEDNHEEDYFLYVAYSDESIVYGK

>sp|Q9UN88|GBRT\_HUMAN Gamma-aminobutyric acid receptor subunit theta OS=Homo sapiens GN=GABRQ PE=2 SV=2

MGIRGMLRAAVILLIRTWLAEGNYPSPIPKFHFEFSSAVPEVVLNLFNCKNCANEAVVQ  
KILDRVLSRYDVRLRPNFGGAPVVRISIIYVTSIEQISEMNMDYTITMFFHQTWKDSRLA  
YYETTLNLTLDYRMHEKLWVPCYFLNSKDAFVHDVTVENRVFQLHPDGTVRYGIRLTTT  
AACSLDLHKFPMDKQACNLVYESYGYTVEDIILFWDDNGNAIHMTEELHIPQFTFLGRTI  
TSKEVYFYTGSIIRLILKFQVQREVNSYLVQVYWPTVLTITISWISFWMNYDSSAARVTI  
GLTSMILITIDSHLRDKLPNISCICAIDIYILVCLFFVFLSLLEYVYINLYFYSRGPRR  
QPRRHRPRRVIARYRYQQVVGVNQDGLINVEDGVSSLPITPAQAPLASPESLGLSTST  
SEQAQLATSESLSPLTSLSGQAPLATGESLSDLPSTSEQARHSYGVRNFGFQADDSIFPT  
EIRNRVEAHGHGVTHDHEDSNESLSSDERHGHGPGSKPMLHHGEKGVQEAGWDLDDNNDK  
SDCLAIKEQFKCDTNSTWGLNDELMAHGQEKDSSSESEDSCPPSPGCSFTEGFSFDLNF  
PDYVPKVDKWSRFLFPLAFGLFNIVYVWYHMY

>sp|Q14549|GBX1\_HUMAN Homeobox protein GBX-1 OS=Homo sapiens GN=GBX1 PE=1 SV=2

MQRAGGGSAPGGNGGGGGGGPGTAFSIDSLIGPPPPRSGHLLYTGYPMFMPYRPLVLPQA  
LAPAPLPAGLPPLAPLASFAGRLTNTFCAGLGQAVPSMVALTTALPSFAEPPDAFYGPQE  
LAAAAAAAAATAARNNPEPGRRPEGGLEADELLPAREKVAEPPPPPPHSETFPSLPA  
EGKVYSSDEEKLEASAGDPAGSEQUEEGSGGDEDDGFLDSSAGGPGALLGPKPKLKGSL  
GTGAEEGAPVTAGVTAPGGKSRRRRTAFTSEQLLELEKEFHCKKYLSLTERSQIAHALKL  
SEVQVKIWFQNRRAKWKRIKAGNVSSRSGEVVRNPKIVPIPVHVNRFVRSQHQQMEQG  
ARP

>sp|P16383|GCFC2\_HUMAN GC-rich sequence DNA-binding factor 2 OS=Homo sapiens GN=GCFC2 PE=1 SV=2

MAHRPKRTFRQRAADSSDSGAEESPAEPGAPRELVPVGSAAEEPPSGGGRAQVAGLPHR  
VRGPRGRGRVWASSRRATKAAPRADEGESERTLDVSTDEEDKIHHSSESKDDQGLSSDSS  
SSLGEKELSSTVKIPDAAFIQAARRKRELARAQDDYISLDVQHTSSISGMKRESEDDPES  
EPDDHEKRIPFTLRPQTLRQMAEESISRNEETSEESQEDEKQDTWEQQMRKAVKIEE  
RDIDLSCGNGSSKVKKFDTSISFPPVNLEIIKKQLNTRLTLQETHRSHLREYEKYVQDV  
KSSKSTIQNLESSNQALNCKFYKSMKIYVENLIDCLNEKIINIQEIESSMHALLLKQAM  
TFMKRRQDELKHESTYLQQLSRKDETSTSGNFSVDEKTQWILEEIESRRTKRRQARVLSG  
NCNHQEGTSSDDELPSAEMIDFQKSQGDILQKQKKVFEEVQDDFCNIQNILLKFQQWREK  
FPDSYIEAFISLCIPKLLNPLIRVQLIDWNPLKLESTGLKEMPWFKSVEEFMDSSVEDSK  
KESSDDKKVLSAIINKTIIIPRLTDFVEFLWDPLSTSQTTSILITHCRVILEEHSTCENEVS  
KSRQDLLKSIVSRMKKAVEDDVFIPLYPKSAVENKTSPhSKFQERQFWGLKLFRNILLW  
NGLLTDDTLQELGLKLLNRYLIALLNATPGPDVVKCNQVAACLPEKWFENSAMRTSI  
PQLENFIQFLQSAHKLSRSEFRDEVEEIIILVKIKALNQAESFIGEHHLHLKSLIKE

D

>sp|P30793|GCH1\_HUMAN GTP cyclohydrolase 1 OS=Homo sapiens GN=GCH1 PE=1 SV=1

MEKGPVRAPAEKPRGARCSNGFPERDPPRPGPSRPAEKPPRPEAKSAQPADGWKGERPRS  
EEDNELNLPNLAAAYSSILSSLGENPQRQGLLKTPWRAASAMQFFTKGYQETISDVLNDA  
IFDEHDHDEMVIKIDIDMFMSCEHHLVPFVGKVHIGYLPNKQVLGLSKLARIVEIYSRRLQ  
VQERLTKQIAVAITEALRPAGVGVVEATHMCMVMRGVQKMNSKTVTSTMLGVFREDPKT  
REEFLTLIRS

>sp|Q9P109|GCNT4\_HUMAN Beta-1,3-galactosyl-0-glycosyl-glycoprotein beta-1,6-N-  
acetylglucosaminyltransferase 4 OS=Homo sapiens GN=GCNT4 PE=2 SV=1

MKIFKCYFKHTLQQKVFILFLTLWLLSLLKLLNVRRLLFPQKDIYLVEYSLSTSPFVRNRY  
THVKDEVRYEVNCSGIYEQEPLIGKSLEIRRRDIIDLEDDDVVAMTSDCDIYQTLRGYA  
QKLVSKEEKSFPPIAYSLVHKDAIMVERLIHAIYNQHNIYCIHYDRKAPDTFKVAMNNLA  
KCFSNIFIASKLEAVEYAHISRLQADLNCLSDLLKSSIQWKYVINLCGQDFPLKSNFELV  
SELKKLNGANMLETVKPPNSKLERFTYHHELRRVPYEVVKLPRTNISKEAPPHNIQIFV  
GSAYFVLSQAFVKYIFNNSIVQDFFAWSKDTYSPDEHFWATLIRVPGIPGEISRSAQDVS  
DLQSKTRLVKWNYEYEGFFYPSCGTGSHLRVSCIYGAELRWLIKDGHWFANKFDSKVDPIIL  
IKCLAEKLEEQQRDWITLPSEKLFMDRNLTTTS

>sp|Q6ZNI0|GCNT7\_HUMAN Beta-1,3-galactosyl-0-glycosyl-glycoprotein beta-1,6-N-  
acetylglucosaminyltransferase 7 OS=Homo sapiens GN=GCNT7 PE=2 SV=2

MSQLRATKSGLVRAVICIFIFLYLRNPTAESEEEPAQPEVVECGFYDELCSALFEGK  
GAAPQIAKFKCTPHKSEIHahlHTPGNCSRISRGLHFITRPLSAEEGDFSLAYIITIHK  
LAMFVQLLRAIYVPQNVYCIHVDEKAPMKYKTAVQTLVNCFENVFISSKTEKVAYAGFTR  
LQADINCMKVLVHSKFQWNYVINLCGQDFPIKTNREIIHYIRSKWSDKNITPGVIQPLHI  
KSKTSQSHLEFVPKGSYAPPNNRFKDKPPHNLTIFYGSAYYVLTFRKFVEFILTDIHAKD  
MLQWSKDIRSPEQHYVWTLNRLKDAPGATPNAGWEGNVRAIKRKSEEGNVHDGCKGRYVE  
DICVYGPGLPWLIQSPSLFANKFEPSTDPLVVTCLERRHRLQVLRQAEVPIEPHWHFQQ  
QSHFNMRLNR

>sp|Q96RT7|GCP6\_HUMAN Gamma-tubulin complex component 6 OS=Homo sapiens GN=TUBGCP6 PE=1  
SV=3

MASITQLFDDLCEALLPAAKTHLGQRSVNRKRAKRSLLKKVAYNALFTNLFQDETQQLQPD  
MSKLPARNKILMLSFDLRVGGLPKADRLEELVEELEAAPCCPLLEVGSVLDLLVQLAGS  
GPPQVLPRKRDYFLNNKHVGRNPYSGYDCDDLSVFEMDVQSLISREECLCHSMIQETLQ  
VMEAAPGTGLPTVGLFSFGDPCGRDRFERDTRVSLFGALVHSRTYDMDVRLGLPPVPDNAD  
LSGLAIKVPPSVDQWEDEGFQSASNLTPDSQSEPSVTPDVLWEAALTYEASKRRCWERV  
GCPPGHREEPYLTEAGRDAFDKFCRLHQGELQLLAGGVLQAPQPVLVKECELVKDVNLNL  
IGVVSATFSLCQPAQAFVVKRGVHVSGASPESISSLLSEVAEYGTCTYRLSHFSLQPVLD  
SLYSKGLVFQAFTSGLRRYLQYYRACVLSTPPTLSLLTIGFLFKKLGRQLRYLAELCGVG  
AVLPGTCGGGPRAAFPTGVKLLSYLYQEALHNCNEHYPVLLSLLKTSCEPYTRFIHDWV  
YSGVFRDAYGEFMIQVNHAYLSFRDKLYWTHGYVLISKEVEDCVPVFLKHIAHDIYVCGK  
TINLLKCCPRHYLCWSDVPVPRI SVIFSLEELKEIEKDCAVYVGRMERVARHSSVSKEE  
KELRMEIAKQELIAHAREAAASRVLSALSDRQMSERMALDARKREQFQRLKEQFVKDQERR  
QAARQEELDDDFSARELRDRERRLKSLEELERKARQALVDHYSKLSAEAARREQKALW  
RIQRHRLSARLRFLEDEKHIQEMLKAVSEAHQPQEPDVLVSVHPQVTSPGPEHPEGG  
QGCDSGSAEQHSPAWDGWNRPGLLTPQPLKPLAVGAGGRGLQQAEGARPFSDSLSIGDFL  
PVGPGAEPVQTMVPLLEVALQTINLDLPPSAPGEAPAAASTQPSRPQEYDFSTVLRPA  
VATSPAPGPLQAAECSLGSSGLQLWEDSCGKMDACGSASRETLTPSHPPRRAALEEGSSQ



PTERLFGQVSGGGLPTGDYASEIAPTRPRWNTHGHVSDASIRVGENVSDVAPTQPRWNTH  
GHVSNASISLGESVSDVAPTRPRWNIHGHVSNASIRVGENVSDVAPTRPRWNTHGHVSN  
SIRVGENVSDVAPTRPRWNTHGHVSDASISLGESVSDMAPARPRWNTHGHVSDASISLGE  
SVSDMAPTRPRWNTHGHVSDTSIRVGENVSDVAPIRSRCNTHGHVSDASISLGEPVSDV  
STRPRWNTHVPIPPPHMVLGALSPEAEPNTPRPQQSPPGHTSQSALSGLAQSTVLDCGPR  
LPVEVGPSLSSPSSGCGEGSISVGENVSDVAPTQPWWPNTPGDSVSEELGPGRSGDTE  
SPNWPLNSQEDTAAQSSPRGEEAEASAAEAQGGEQAYLAGLAGQYHLERYPDSESMSE  
PPIAHLRLPVLPRAFAPVDPQVQSAADETAVQLSELLTLPVLMKRSITAPLAHISLVN  
KAAVDYFFVELHLEAHYEALRHFLLMEDGEFAQSLSDLLFEKLGAQTPGELLNPLVLNS  
VLSKALQCSLHGDTPHASNLSLALKYLPVFAFNAPDVLSCLELRYKVDWPLNIVITEGC  
VSKYSGVFSFLLQLKLMWALKDVCFHLKRTALLSHMAGSVQFRQLQFKHEMQHFVKVI  
QGYIANQILHVTWCEFRARLATVGDL EEIQRAHA EYLHKAVFRGLL TEKAAPVMNVIHSI  
FSLVLKFRSQLISQAWGPPGGPRGA EHPNFALMQQSYNTFKYYSHFLFKVVTKLVNRGYQ  
PHLEDFLLRINFNNYYQDA

>sp|P30047|GFRP\_HUMAN GTP cyclohydrolase 1 feedback regulatory protein OS=Homo sapiens  
GN=GCHFR PE=1 SV=3

MPYLLISTQIRMEVGPTMVGDEQSDPELMQHLGASKRRALGNFYEYYVDDPPRIVLDKL  
ERRGFRVLSMTGVGQTLVWCLHKE

>sp|Q8N9W4|GG6L2\_HUMAN Golgin subfamily A member 6-like protein 2 OS=Homo sapiens  
GN=GOLGA6L2 PE=1 SV=2

MWPQPHLPPHPMMSEKTRQNKLA EAKKKFTDYRQWNIAGVGTRATDTKKKKINNGTNPET  
TTSEGCHSPEDTQQNRAQLKEEKASHQHQEALRREIEAQDHTIRILTCQKTELETALYY  
SQDAARKFEDGNLGTSSFNLALSQA FRGSP LGC VSTSLIPGESKDLAGRLHHSWHFAGE  
LQRALSAVSTWHKKADRYIEELTKERDALSLELYRNTITNEELKKNAELQEKLRLAESE  
KSEIQLNVKELKRKLERAKFLLPQVQTNTLQEEMWRQEEELREQEKKIRKQEEKMWRQEE  
RLREQEGKMREQEEMRRQEKLREQEKLREQEKLREQKKLREQEEQMREQEEMWEQ  
EEKMREQEEMWRQEERLWEQEKMREQEKM RDQEERMWEQDERLREKEERMREQEKMW  
EQVEKMREEKKMQEKKTRDQEEMQEEERIREREKKMREEEETMREQEEMQKQEEENM  
WEQEEKEWQQRLPEQKEKLWEQEKMREQEEMIWEQEEKIRDQEEMWGQEKMMWRQEKM  
EQEEEMREKEERIRDQKEKMQRERLPEHEERCSEPCLP SKVLCNMSHTGSVEPAGGEAGE  
GSPQDNPTAQEIMQLFCGMKNAQQCPGLGSTSCIPFFYRGDKRKMKIINI

>sp|HOYKK7|GG6L5\_HUMAN Putative golgin subfamily A member 6-like protein 19 OS=Homo  
sapiens GN=GOLGA6L19 PE=5 SV=1

MWPQPRLLPPHPAMSEKQQGKLAAAKKKL KAYWQRKSPGIPAGANRKKKVNGSSPDTATS  
GGYHSPGDSATGVYGEGRASSTTLQDLESQYQELAVALDSSSAIISQLTENINSLVRTSK  
EEKKHEIHLVQKLGRSLFKLNQTAEPLAPEPPAGPSKVEQLQDET NHLRKELESVGRQL  
QAEVENNQMSLLNRRQEERLREQEERLHEQEERLHEQEERLCEQEERLREQEERLCEQE  
ERLREQEERLCEQEERLREQEERLCEQEERLREQEERLCEQEERLREQEERLCEQEERL  
EQEERLCEQEERLREQEERLCEQEERLCEQEERLCEQEERLCEQEERLCEQEKLPGQERL  
LEEVEKLLEQERRQEEQERLLERERLLDEVEELLEQERLRQQDERLWQQETLRELERLRE  
LERLRELERMLELGWEALYEQRAEPRSGFEELNNENKSTLQLEQQVKELEKSGGAEEPRG  
SESAAAARPVP GAVPQGA WMCQAGWTPQEHPGLSGEAVGTGEAAGGAEEAACHSFRAA  
ENRELNITII

>sp|O75223|GGCT\_HUMAN Gamma-glutamylcyclotransferase OS=Homo sapiens GN=GGCT PE=1 SV=1

MANS GCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDGNSQGKT  
SQTWHGGIATIFQSPGDEVGVVWKMNSNLNSLDEQEGVKSGMYVVIKVATQEGKEI  
TCRSYLMNTNYESAPPSPQYKKIICMGAKENGLPLEYQEKLAIEPNDYTGVSEEIEDII  
KKGETQTL

>sp|A6NGU5|GGT3\_HUMAN Putative gamma-glutamyltranspeptidase 3 OS=Homo sapiens GN=GGT3P  
PE=5 SV=2

MKKKLVLGLLAVVLVLVIVGLCLWLPSASKEPDNHVYTRAAVAADAKQCLEIGRDTLRD  
GGSAVDAAIAALLCVGLMNAHSMGIGVGLFLTIYNSTTRKAEVINAREVAPRLAFASMFN  
SSEQSQKGGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIQLARQGFPVVGKGLAAVLEN  
KRTVIEQQPVLCEVFCRDRKVLREGERLTLPRADTYEMLAIEGAQAFYNGSLMAQIVKD  
IQAAGGIVTAEDLNNYCAELIEHPLNISLGDAVLYMPSARLSGPVLALILNILKGYNFSR  
ESVETPEQKGLTYHRIVEAFRFAYAKRTLLGDPKFVDVTEVVRNMTSEFFAAQLRSQISD  
HTTHPISYKKPEFYTPDDGGTAHLSVVAEDGSAVSATSTINLYFGSKVCSPVSGILFNNM  
DDFSSPSITNEFGAPPSPANFIQPGKQPLLSMCPTIMVGQDGQVRMVVGAAGGTQITTD  
ALAIINLWFGYDVKRAVEEPRLHNKLLPNVTTVERNIDQAVTAALETRHHHTQIASTFI  
AVVQAIVRTAGGWAAASDSRKGGEAGY

>sp|P36269|GGT5\_HUMAN Gamma-glutamyltransferase 5 OS=Homo sapiens GN=GGT5 PE=1 SV=2

MARGYGATVSLVLLGLGLALAVIVLAVVLSRHQAPCGPQAFHAHAADSKVCSDIGRAI  
LQQQGSFVDATIAALVCTSVVNPQSMGLGGGVIFTIYNVTTGKVEVINARETVPASHAPS  
LLDQCAQALPLGTGAQWIGVPGELRGYAEAHRRHGRLPWAQLFQPTIALLRGGHVAVPVL  
SRFLHNSILRPSLQASTLRQLFFNGTEPLRPQDPLPWPALATTLETVATEGVEVFYTGR  
GQMLVEDIAKEGSQLTLQDLAKFQPEVVDALVPLGDYTLYSPPPPAGGAILSFILNVLR  
GFNFSTESMARPEGRNVVYHHLVETLKFAGQWRWLGDRSHPKLQNASRDLLGETLAQL  
IRQQIDGRGDHQLSHYSLAEAWGHGTGTSHVSVLGEDGSAVAATSTINTPFAMVYSPRT  
GIILNELLDLCECPRGSGTTPSPVSGDRVGGAPGRCWPPVPGERSPSSMVPSILINKA  
QGSKLVIGGAGGELIISAVAQAISKLWLWGLDLRAAIAAPILHVNSKGCVEYEPNFSQEV  
QRGLQDRGQNQTQRPFFLNVVQAVSQEGACVYAVSDLRKSGEAAGY

>sp|Q6P531|GGT6\_HUMAN Gamma-glutamyltransferase 6 OS=Homo sapiens GN=GGT6 PE=2 SV=2

MERAEEPVVYQKLLPWEPSLESEEEEEETSEALVLNPRRHQDSSRNKAGGLPGTWARV  
VAALLLLAVGCSLAVRQLQNQGRSTGSLGSVAPPPGGHSHGPGVYHHGAIISPAGRELLV  
AGGNVVDAGVGAALCLAVVHPHATGLGAMFWGLFHDSSSGNSTALTSGPAQTLAPGLGLP  
AALPTLHLLHARFGRLPWPRLVGPTTLAQEGFLVDTPALARALVARGTEGLCPLLCHADG  
TPLGAGARATNPQLAAVLRSAALAPTSDLAGDALLSLLAGDLGVEVPSAVPRPTLEPAEQ  
LPVPQGILFTTPSPSAGPELLALLEAALRSGAPIPDPCPPFLQTAVSPSSALAAVDSSG  
SVLLLTSSLNCSFGSAHLSPSTGVLLSNLVAKSTTSAWACPLILRGLDDEADVLGLVA  
SGTPDVARAMTHTLRLHAAARPPTQAQHQHQGQEQTEHPSTCGQGTLLQVAAHTEHAHV  
SSVPHACCPFQGF

>sp|Q4GONO|GGTA1\_HUMAN Inactive N-acetyllactosaminide alpha-1,3-galactosyltransferase  
OS=Homo sapiens GN=GGTA1P PE=1 SV=2

MNVKGKVLISMLVSTVIVFWEFINSTEGSFLWIYHSKNPEVDDSSAQKGWWFLSWFNN  
GIHNYQQGEEDIDKEKREETKGRKMTQQSFYGTGLIQT

>sp|Q9H3K2|GHITM\_HUMAN Growth hormone-inducible transmembrane protein OS=Homo sapiens  
GN=GHITM PE=1 SV=2

MLAARLVCLRTLPSRVFHPAFTKASPVKNSITKNQWLLTPSREYATKTRIGIRRGRTGQ

ELKEAALEPSMEKIFKIDQMGRWVFVAGGAAVGLGALCYGGLSNEIGAIEKAVIWPQYV  
KDRIHSTYMYLAGSIGLTALSAIAISRTPVLMNFMMRGSWVTIGVTFAMVGAGMLVRSI  
PYDQSPGPKHLAWLLHSGVMGAVVAPLTLGGPLLIRAAWYTAGIVGGLSTVAMCAPSEK  
FLNMGAPLGVGLGLVFVSSLSGSMFLPPTTVAGATLYSVAMYGGLVLFMSMFLLYDTQKVIK  
RAEVSPMYGVQKYDPINSMLSIIYMDTLNIFMRVATMLATGGNRKK

>sp|Q8IW92|GLBL2\_HUMAN Beta-galactosidase-1-like protein 2 OS=Homo sapiens GN=GLB1L2 PE=2  
SV=1

MTTWSLRRRPARTLGLLLLVLGFLVLRRLDWSTLVPLRLRHRQLGLQAKGWNFMLEDST  
FWIFGSGSIHYFRVPREYWRDRLLKMKACGLNTLTYYVPWNLHEPERGKDFDSGNLDLEAF  
VLMAAEIGLWVILRPGPYICSEMDLGGLPSWLLQDPGMRLRTTYKGFTEAVDLYFDHLS  
RVVPLQYKRGGPIIAVQVENEYGSYNKDPAYMPYVKKALEDRGIVELLLTSDNKDGLSKG  
IVQGLVATINLQSTHELQLLTFLFNVQGTQPKMMEYWTGWFDSWGPHNILDSSSEVLK  
TVSAIVDAGSSINLYMFHGGTNFGFMNGAMHFHDYKSDVTSYDYDAVLTEAGDYTAKYMK  
LRDFFGSISGIPLPPPPDLLPKMPYEPLTPVLYLSLWDALKYLGEPIKSEKPINMENLPV  
NGGNGQSFGYILYETSITSSGILSGHVHDRGQVFVNTVSIQFLDYKTTKIAVPLIQGYTV  
LRILVENRGRVNYGENIDDQRKGLIGNLYLNDSPKFNRIYSLDMKKSFFQRFGLDKWSS  
LPETPTLPAFFLGSLSISSTPCDTFLKLEGWEKGVVFINQNLGRYWNIGPQKTLYLPGP  
WLSSGINQVIVFEETMAGPALQFTETPHLGRNQYIK

>sp|P02728|GLEM\_HUMAN Erythrocyte membrane glycopeptide OS=Homo sapiens PE=1 SV=1  
CEGSHDHDGA

>sp|Q92945|FUBP2\_HUMAN Far upstream element-binding protein 2 OS=Homo sapiens GN=KHSRP  
PE=1 SV=4

MSDYSTGGPPPPAGGGGAGGAGGGPPPPGAGDRGGGGPGGGPGGGSAGGPSQ  
PPGGGPGIRKDAFADAVQARQIAAKIGGDAATTNNSTPDFGFGGQKRQLEDGDQPES  
KKLASQGDSISSQLGPIHPPRPTSMTEEYRVPDGMVGLIIGRGGEQINKIQQDSGCKVQI  
SPDSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHDNANGGQNGTVQEIMI  
PAGKAGLVIGKGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM  
DILRERDQGGFGDRNEYGSRIIGGIDVPVPRHSVGVVIGRSGEMIKKIQNDAGVRIQFKQ  
DDGTGPEKIAHIMGPPDRCEHAARIINDLLQSLRSGPPPGGPGMPPGGRGRGRGQGNW  
GPPGGEMTFSIPTHKGLVIGRGGENVKAINQQTGAFVEISRQLPPNGDPNFKLFIIRGS  
PQQIDHAKQLIEEKIEGPLCPVGPGGPGPAGPMGPFNPGFNQPPGAPPHAGGPPPH  
QYPPQGWGNTYPQWQPPAPHDPSKAAAAAADPNAWAAYYSHYYQPPGPVPGPAPAPAA  
PPAQGEPPQPPTGQSDYTKAWEEYKKIGQQPQQPGAPPQQDYTKAWEEYKKQAQVAT  
GGGPGAPPGSQPDYSAAWAEYYRQQAAYYGQTPGPGGPQPPTQQGQQQAQ

>sp|A2VDF0|FUCM\_HUMAN Fucose mutarotase OS=Homo sapiens GN=FUOM PE=1 SV=2

MVALKGVALLSPELLYALARMGHGDEIVLADLNFPASSICQCGPMEIRADGLGIPQLE  
AVLKLPLDITYVESPAAMVLPVSDKERGLQTPVWTEYESILRRAGCVRALAKIERFEFY  
ERAKKAFVAVATGETALYGNLILRKGVLAALNPLL

>sp|Q9NXX8|FXL12\_HUMAN F-box/LRR-repeat protein 12 OS=Homo sapiens GN=FBXL12 PE=1 SV=1

MATLVELPDSVLLIFSYLPVRDRIRISRVCHRWKRLVDDRWLWRHVDLTLYTMRPKVMW  
HLLRRYMASRLHSLRMGGYLFSGSQAPQLSPALLRALGQKCPNLKRLCLHVADLSMVPIT  
SLPSTLRTLLEHSCIEISMAWLHKQDPTVLPLECIVLDRVPAFRDEHLQGLTRFRALRS  
LVLGGTYRVTETGLDAGLQELSYLQRLVLGCTLSADSTLLAISRHRLRDVRKIRLTVRGL  
SAPGLAVLEGMPALESCLQGPLVTPEMPSPTEILSSCLTMPKLRVLELQGLGWEGQEAE

KILCKGLPHCMVIVRACPKESMDWWM

>sp|075084|FZD7\_HUMAN Frizzled-7 OS=Homo sapiens GN=FZD7 PE=1 SV=2

MRDPGAAAPLSSSLGCLALVLALLGALSAGAGAPYHGEKGISVPDHGFCQPIISIPLCIDI  
AYNQITILPNLLGHTNQEDAGLEVHQFYPLVKVQCSPFLRFFLCSMYAPVCTVLDQAIPPC  
RSLCERARQGCEALMNKFGFQWPERLRCENFPVHGAGEICVGQNTSDGSGGPGGGPTAYP  
TAPYLPDLPTALPPGASDGRGRPAFPFSCPRQLKVPPYLGYRFLGERDCGAPCEPGRAN  
GLMYFKEEERRFARLVWGVWSVLCCASTLFTVLTYLVDMMRRFSYPERPIIFLSGCYFMVA  
VAHVAGFLLLEDRAVCVERFSDDGYRTVAQGTKKEGCTILFMVLYFFGMASIIWWVILSLT  
WFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKTITILAMGQVDGDLISGVCYVGLSSVDA  
LRGFVLAPLFVYLFIGTSFLLAGFVSLFRIRTIMKHDGTEKLEKLMVRIGVFSVLYTV  
PATIVLACYFYEAFREHWERTWLLQTCKSYAVPCPPGHFPPMSPDFTVFMIKYLMTMIV  
GITTFGWIWSGKTLQSWRRFYHRLSHSSKGETAV

>sp|Q9UM11|FZR\_HUMAN Fizzy-related protein homolog OS=Homo sapiens GN=FZR1 PE=1 SV=2

MDQDYERRLLRQIVIQNENTMPRVTEMRRITLPASSPVSSPSKHGDRFIPSRAGANWSVN  
FHRINENEKSPSQNRKAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLQPS  
TPEKKGLFTYSLSTRSSPDDGNDVSPYSLSPVSNKSQKLLRSPRKPTRKISKIPFKVLD  
APELQDDFYLNLDVSSNLVSLVGLGTCVYLWSACTSQVTRLCDLSVEGDSVTSVGWSE  
GNLVAVGTHKGFQIWDAAAGKLSMLEGHTARV GALAWNAEQLSSGSRDRMILQRDIRT  
PPLQSERRLQGHRQEVCGLKWSTDHQLLASGGNDNKLLVWNHSSLSPVQQYTEHLAAVKA  
IAWSPHQHGLLASGGGTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGY  
SQNQILVWKYPSLTQVAKLTGHSYRVLYLAMPDGEAIVTGAGDETLRFWNVFSKTRSTK  
VKWESVSVLNLFRIR

>sp|Q8N3F9|G137C\_HUMAN Integral membrane protein GPR137C OS=Homo sapiens GN=GPR137C PE=2  
SV=2

MRVSVPGPAAAAAPAAGREPSTPGGGSGGGGAVAAASGAAPGVSQALASVLHALLYAAL  
FAFAYLQLWRLLYRERRLSYQSLCLFLCLLWALRTTLFSAAFSLGSLPLLRPPAHLH  
FFPHWLLYCFPSCLQFSTLCLLNLYLAEVICKVRCATELDRHKILLHLGFIMASLLFLVV  
NLTCAMLVHGDPENQLKWTVFVRALINDSLFILCAISLVICYICKITKMSSANVYLESKG  
MSLCQTVVVGSVVILLYSSRACYNLVVVTISQDTLESFPNYGWDNLSKAHVEDISGEY  
IVFGMVLFLWEHVPAWSVVLFFRAQRLNQNLAPAGMINSHSYSSRAYFFDNPRRYDSDDD  
LPRLGSSREGSLPNSQSLGWYGTMTGCGSSSYTTPHLNGPMTDTAPLLFTCSNLDLNNH  
HSLYVTPQN

>sp|Q8NGA4|G32P1\_HUMAN Putative G-protein coupled receptor GPR32P1 OS=Homo sapiens  
GN=GPR32P1 PE=5 SV=2

MNGVSEGRGCSDRQPGALTQGHSCSRKMNASRCLSEEVGSLRPLTMAVLSASFVVGVLG  
NGLVPWVTVFRMARTVSTVCFHLALADFMLSLSLPILVYYIVSRQWLLGEWACKLYTGF  
VFLTFTSTNCLLVLSVDRCISVLYPVWALNHRTEQRASWLAFGVWLLAAALCSAHLKFR  
TTRKWNGCMQCYLQFNLENETAQMWTQEVFGRQMAVIMAHFLLGFLGPLAIIGTCAHLIR  
AKLLREGWVHANRPKRLLLVLVSALSAGSHLT

>sp|Q13283|G3BP1\_HUMAN Ras GTPase-activating protein-binding protein 1 OS=Homo sapiens  
GN=G3BP1 PE=1 SV=1

MMMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKE  
IHRKVMQNFNTCHTKIRHVDAAHATLNDGVVVQVMGLLSNNQALRRFMQTFVLAPEGSV  
ANKFYVHNDIFRYQDEVFGGFVTEPQEESEEEVEEPEERQQTPEVVPDDSGTFYDQAVVS

NDMEEHLEEPVAEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPEDAQKSSSPAPADIAQ  
TVQEDLRTFSWASVTSKNLPPSGAVPVTGIPPHVVKVPASQRPESKPESQIPPQRPQRD  
QRVREQRINIPPQRGPRPIREAGEQGDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDFD  
QSYGNVVELRINSGGKLPNFGFVVFDDSEPVQKVLNRPIMFRGEVRLNVEEKKTRAARE  
GDRRDNRLRPGGPRGGLGGGMRGPPRGGMVQKPGFGVGRGLAPRQ

>sp|O14556|G3PT\_HUMAN Glyceraldehyde-3-phosphate dehydrogenase, testis-specific OS=Homo sapiens GN=GAPDHS PE=1 SV=2

MSKRDIVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEPQPQPEPTPVREEIKPPPPPLPP  
HPATPPPKMVSVARELTVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYVMVMFKY  
DSTHGRYKGSVEFRNGQLVVDNHEISVYQCKEKPQIPWRAVGSPYVVESTGVYLSIQAAS  
DHISAGAQRVVISAPSPDAPMFVMGVNENDYNPGSMNIVSNASCTTNCLAPLAKVIHERF  
GIVEGLMTTVHSYATQKTVDGPSRKAWRDGRGAHQNIIPASTGAAKAVTKVIPELKGKL  
TGMAFRVPTPDVSVVDLTCRLAQAPYSAIKEAVKAAAKGPMAGILAYTEDEVVSTDFLG  
DTHSSIFDAKAGIALNDNFVKLISWYDNEYGYSHRVVDLLRYMFSRDK

>sp|Q13480|GAB1\_HUMAN GRB2-associated-binding protein 1 OS=Homo sapiens GN=GAB1 PE=1 SV=2

MSGGEVVCSGWLRKSPPEKKLKRYAWKRRWFVLRSGRLTGDPDVLEYKNDHAKKPIRII  
DLNLCQQVDAGLTFNKKEFENSYIFDINTIDRIFYLVADSEEEEMNKWVRICIDICGFNPT  
EEDPVKPPGSSLQAPADLPLAINTAPPSTQADSSSATLPPPYQLINVPPHLETGLIQEDP  
QDYLLLLINCQSKKPEPTRTHADSAKSTSSETDCNDNVPSHKNPASSQSKHGMNGFFQQQM  
IYDSPPSRAPASVDSSLYNLPRSYSHDVLPKVSPSTEADGELYVFNTPSGTSSSVETQM  
RHVVISYDIPPTPGNTYQIPRTFPEGTLGGQTSKLDTIPDIPPPRPPKPPHADRSPVETC  
SIPRTASDTDSSYCIPTAGMSPSRSTISTVDLNLKRKDASSQDCYDIPRAFPSDRSSSL  
EGFHNHFVKVKNLTVGSVSSEELDENYVPMNPNSPPRQHSSSFTEPIQEANYVPMTPGTF  
DFSSFGMQVPPPAHMGFRSSPKTPRRPVVADCEPPVDRNLKPDRKVKPAPLEIKPLP  
EWEELQAPVRSPITRSFARDSSRFPMSPRPDSVHSTTSSSDSHDSEENYVPMNPNLSSD  
PNLFGSNSLDGGSSPMIKPKGDKQVEYLDLDDLSGKSTPPRKQKSSSGSGSSVADERVDYV  
VVDQKTLALKSTREAWTDGRQSTESETPAKSVK

>sp|Q2WGN9|GAB4\_HUMAN GRB2-associated-binding protein 4 OS=Homo sapiens GN=GAB4 PE=2 SV=1

MSLPSPSPSRELCPDPAFAPLSSWPGSGPAGGSTRSGHVLYSGWLRKSPPEKKLRFAW  
RKRWFILRRGQTSSDPDVLEYKNDGSKKPLRTINLNLCEQLDVDVTLNFKKEIQKGYM  
FDIKTSERTFYLVAETREDMNEWQSIQICGFRQEESTGFLGNISSASHGLCSSPAEPS  
CSHQHLPQEQEPTSEPPVSHCVPTWPIPAPPGCLRSHQHASQRAEHARSASFSGSEAP  
FIMRRNTAMQNLAQHSGYSVDGVSGHIGHFHSLSKPSQHNAEFRGSTHRIPWSLASHGHT  
RGLTSGSEADNEASSGKYTQHGGGNASRPAESMHEGVCSFLPGRTLVLGLSDSIASEGSCV  
PMNPGSPTLPAVKQAGDSDQVCIPVGSCLVRFDLLGSPLTELSMHQDLSQGHEVQLPPV  
NRSLKPNQKANPTPNLRRNRVINELSFKPPVTEPWSGTSHTFDSSSSQHPISTQSITNT  
DSEDSGERYLFNPASAFVSGGTSSSAPPRSTGNIHYAALDFQPSKPSIGSVTSGKKVD  
YVQVDLEKTQALQKTMHEQMCLRQSSEPPRGAKL

>sp|O75899|GABR2\_HUMAN Gamma-aminobutyric acid type B receptor subunit 2 OS=Homo sapiens GN=GABBR2 PE=1 SV=1

MASPRSSGQGPPIPPPPPPPARLLLLLLLPLLLPLAPGAWGARGAPRPPSPPLSIMG  
LMPLTKEVAKSIGRGVLAPELAIEQIRNESLLRPYFLDLRLYDTECDNAKGLKAFYDA  
IKYGNHLMVFGVCPSVTSIIAESLQGWNLVQLSFAATTPVLADKKKYPPFFRTVPDSN  
AVNPAILKLLKHYQWKRVGTLTQDVQRFSEVRNDLTGVLYGEDIEISDTESFSNDPCTSV

KKLKGNDVRIILGQFDQNMAAKVFCCAYEENMYGSKYQWIIPGWYEPSWWEQVHTEANSS  
RCLRKNLLAAMEGYIGVDFEPLSSKQIKTISGKTPQQYEREYNNKRSVGPSPKFGYAYD  
GIWVIAKTLQRAMETLHASSRHQRIQDFNYTDHTLGRIILNAMNETNFFGVTGQVVFRRNG  
ERMGTIKFTQFQDSREVKVGEYNAVADTLEIINDTIRFQGSEPPKDKTIILEQLRKISLP  
LYSILSALTILGMIMASAFLLFNINRNQKLIKMSPPYMNLIILGGMLSYASIFLFGLD  
GSFVSEKTFETLCTVRTWILTGVYTTAFGAMFAKTWRVHAIFKNVMMKKKIIDQKLLVI  
VGGMLLIDLCLICWQAVDPLRRITVEKYSMEPDPAGRDISIRPLLEHCENTHMTIWLGI  
YAYKGLMLFGCFLAWETRNV SIPALNDSKYIGMSVYVNGIMCIIGAAVSFLTRDQPNVQ  
FCIVALVIFCSTITLCLVFPKLIITLRNPDAAQTNRRFQFTQNNKKEDSKTSTSVTSV  
NQASTSRLEGLQSENHRLRMKITELDKDLEEVMTQLQDTPEKTTYIKQNHQELNDILNL  
GNFTESTDGGKAILKNHLDQNPQLQWNTTEPSRTCKDPIEDINSPEHIQRRSLQLPILH  
HAYLPSIGVDASCVSPCVSPTASPRHRHVPPSFRVMVSGL

>sp|P80404|GABT\_HUMAN 4-aminobutyrate aminotransferase, mitochondrial OS=Homo sapiens  
GN=ABAT PE=1 SV=3

MASMLLAQRLACSFQHSYRLLVPGSRHISQAAAKVDVEFDYDGPLMKTEVPGPSRQELMK  
QLNIIQNAEAVHFFCNYEESRGNLVDVDGNRMLDLYSQISSVPIGYSHPALCLKLIQPPQ  
NASMFVNRPALGILPPENFVEKLRQSLLSVAPKGMSQLITMACGSCSNENALKTIFMWYR  
SKERGQRGFSQEELETMINQAPGCPDYSILSFMGAFHGRTMGCLATTHSKAIHKIDIPS  
FDWPIAPFPRLKYPLEEFVKENQQEEARCLEEVEDLIVKYRKKKKTVAGIIVEPIQSEGG  
DNHASDDFFRKLRLDIARKHGCAFLVDEVQTGGGCTGKFWAHEHWGLDDPADVMTFSKMM  
TGGFFHKEEFRPNAPYRIFNTWLGDPKSNLLAEVINIIKREDLLNNAHAGKALLTGLL  
DLQARYPQFISRVGRGTFCSFDPDDSI RNKLIL IARNKGVVLGGCGDKSIRFRPTLVF  
RDHHAHLFLNIFSDILADFK

>sp|Q4V321|GAG13\_HUMAN G antigen 13 OS=Homo sapiens GN=GAGE13 PE=3 SV=1

MSWRGRSTYYRPRRRYVEPPEMIGPMRPEQFSDEVEPATPEEGEPATQCQDPAAAEQGE  
DEGASAGQGPKEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGKKQSQC

>sp|Q13070|GAGE6\_HUMAN G antigen 6 OS=Homo sapiens GN=GAGE6 PE=1 SV=1

MSWRGRSTYYWPRRRYVQPEVIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAEQGE  
DEGASAGQGPKEADSQEQGHPQTGCECEDGPDGQEVDPNPEEVKTPEEGEKQSQC

>sp|P63130|GAK7\_HUMAN Endogenous retrovirus group K member 7 Gag polyprotein OS=Homo  
sapiens GN=ERVK-7 PE=3 SV=2

MGQTSKIKSKYASYLSFIKILLKRGVVKVSTKNLIKLFQIIIEQFCPWFPEQGTLDLKD  
KRIGKELKQAGRKGNIIPLTVNDWAI IKAALPEPFQTEKDSVSVSDALGSCI IDCNENTR  
KKSQKETEGHCEYVAEPVMAQSTQNVQDYNQLQEVIIYETLKLKLGKPELVGPSESKPRG  
TSHLPAGQVPVTLQPKQVKENKTQPPVAYQYWPAPLQYRPPESQYGYPMPPAPQGR  
APYPQPPTRRNLNPTAPPSRQGSSELHEIIDKSRKEGDTEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGRLIPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQRNRNRAANPPVNIADQLLGIGQNWSTISQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCPVLNKQNTITQATTTGREPPDLCPCKKGKHASQCRSKFD  
KNGQPLSGNEQRGQAPQQTGAFFIIPFVPQGFQEQQPPLSQVFQGISQLPQYNNCP  
PPQAAVQQ

>sp|P51570|GALK1\_HUMAN Galactokinase OS=Homo sapiens GN=GALK1 PE=1 SV=1

MAALRQPQVAELLAEARRAFREFEFGAEPELAVSAPGRVNLIGEHTDYNQGLVLPMALELM  
TVLVGSPRKDGLVSLTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGV IQYYPAA  
PLPGFSAVVVSSVPLGGGLSSSASLEVATYTFLLQQLCPDSGTIAARAQCQQAHSFAGM  
PCGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLITNSNVRHSLASSEYPVRR  
RQCEEVARALGKESLREVQLEEEAARDLVSKEGFRRARHVVG EIRRTAQAAAALRRGDY  
RAFGRLMVESHRSRLRDDYEVSCPELDQLVEAALAVPGVYGSRMTGGGFGGCTVTLLLEASA  
APHAMRHIQEHYGGTATFYLSQAADGAKVLCL

>sp|P47211|GALR1\_HUMAN Galanin receptor type 1 OS=Homo sapiens GN=GALR1 PE=1 SV=3

MELAVGNLSEGNASWPEPPAPEPGPLFGIGVENFVTLVVFGLIFALGVLGNSLVITVLAR  
SKPGKPRSTTNLFILNLSIADLAYLLFCIPFQATVYALPTWVLGAFICKFIHYFFTVMML  
VSIFTLAAMSVDRYAIVHSRRSSSLRVSRNALLGVGCIWALSIMASPVAYHQGLFHPR  
ASNQTFCEWQWPDPRHKKAYVCTFVFGYLLPLLLICFCYAKVLNHLHKKLKNMSKKSEA  
SKKKTAQTVLVVVVVFVGISWLPHHI IHLWAEFGVFPLTPASFLFRITAHCLAYSNSSVNP  
IIYAFLSENFRKAYKQVFKCHIRKDSHLSDTKESKSRIDTPPSTNCTHV

>sp|Q10471|GALT2\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 2 OS=Homo sapiens  
GN=GALT2 PE=1 SV=1

MRRRSRMLLCFAFLVWLGIAYMYSGGGSALAGGAGGAGRKEDWNEIDPIKKKDLHHSN  
GEEKAQSMETLPPGKVRWPDFNQEAYVGGTMVRSGQDPYARNKFNQVESDKLRMDRAIPD  
TRHDQCQRKQWRVDLPATSVVITFHNEARSALLRTVVSVLKKSPPHLIKEIILVDDYSND  
PEDGALLGKIEKVRVLRNDRREGLMRSRVRGADAAQAKVLTFLDSHCECNEHWLEPLLER  
VAEDRTRVVSPIIDVINMDNFQYVGASADLKGGFWDNLVFKWDMTPEQRRSRQGNPVAP  
IKTPMIAGGLFVMDKFYFEELGKYDMMMDVWGGENLEISFRVWQCGGSLEIIPCSRVGHV  
FRKQHPYTFPGSGTVFARNTRRAAEVWMDEYKNFYAAVPSARNVPYGNIQSRLELRKK  
LSCKPFWYLENVYPELRVPDHDIAFGALQQGTNCLDTLGHFADGVVGVYECHNAGGNQ  
EWALTKEKSVKHMCLCLTVVDRAPGSLIKLQGCRENDSRQKWEQIEGNSKLRHVGSNLCL  
DSRTAKSGGLSVEVCGPALSQQWKFTLNLQQ

>sp|Q86SF2|GALT7\_HUMAN N-acetylgalactosaminyltransferase 7 OS=Homo sapiens GN=GALT7 PE=1  
SV=1

MRLKIGFILRSLLVVGSFLGLVVLWSSLTPRPDDPSPLSRMREDRDVNDPMPNRGGNGLA  
PGEDRFKPVVPWPHVEGVEVDLESIRRINKAKNEQEHAGGDSQKDIMQRQYLTFKPQTF  
TYHDPVLRPGILGNFEPKEPEPPGVVGGPGEKAKPLVLGPEFKQAIQASIKEFGFNMVAS  
DMISLDRSVNDLRQEECKYWHYDENLLTSSVVIVFHNEGWSLTMRTVHSV IKRTPRKYLA  
EIVLIDDFSNKEHLKEKLDEYIKLWNLVKVFRNERREGLIQARSIGAQQAKLGQVLIYL  
DAHCEVAVNWAYPLVAPISKDRTICTVPLIDVINGNTYEIIPQGGGDEDGYARGAWDWSM  
LWKRVPPLTPQEKRLRKTKEPYRSPAMAGGLFAIEREFFELGLYDPGLQIWGGENFEIS  
YKIWQCGGKLLFVPCSRVGHYIRLEGWQGNPPPIYVGSSPTLKNYVRVVEVWWDEYKDYF  
YASRPESQALPYGDISLKKFREDHNCKSFKWFMEIAYDITSHYPLPKNVDWGEIRGF  
ETAYCIDSMTNGGFVGLGPCHRMGGNQLFRINEANQLMQYDQCLTKGADGSKVMITHC  
NLNEFKEWQYFKNLHRFTHIPSGKCLDRSEVLHQVFISNCDSSKTTQKWEMNNIHSV

>sp|Q9NY28|GALT8\_HUMAN Probable polypeptide N-acetylgalactosaminyltransferase 8 OS=Homo  
sapiens GN=GALT8 PE=2 SV=1

MMFWRKLPKALFIGLTLAIAVNLLLVFSSKGTQLNLTGGLHRELPLHLNKRYGAVIKRL  
SHLEVELQDLKESMKLALRQENVNSTLKRAKDEVRLPKAMETKVNETHKHKTKMKLFP  
HSQLFRQWGEDLSEAQQKAAQDLFRKFGYNAYLSNQLPLNRTIPDTRDYRCLRKTYP SQL

PSLSVILIFVNEALSIIQRAITSIIINRTPSRLLKEIILVDDFSSNGELKVHLDEKIKLYN  
QKYPGLLKIIRHPERKGLAQARNTGWEAATADVVAILDAHIEVNVGWAEPILARIQEDRT  
VIVSPVFDNIRFDTFKLDKYELAVDGFNWELWCYDALPQAWIDLHDVTAPVKSPSIMGI  
LAANRHLGEIGSLDGGMLIYGGENVLSLRVWQCGGKVEILPCSRIAHLEHHKPYALD  
LTAALKRNALRVAEIWMDEHKHMVYLAWNIPLQNSGIDFGDVSSRMALREKLKCKTFDWY  
LKNVYPLLKPLHTIVGYGRMKNLLDENVCDDQGPVPGNTPIMYYCHEFSSQNVYYHLTGE  
LYVGQLIAEASASDRCLTDPGKAKEPTLEPCSKAAKNRLHIYWDFKPGGAVINRDTKRCL  
EMKDLLGSHVLVLQTCSTQVWEIQHTVRDWGQTSQ

>sp|P50440|GATM\_HUMAN Glycine amidinotransferase, mitochondrial OS=Homo sapiens GN=GATM  
PE=1 SV=1

MLRVRLRGSGRGAEAVHYIGSRLGRTLGVVQRTFQSTQAATASSRNSCAADDKATEPL  
PKDCPVSSYNEWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQGGHYFPKDHL  
KKAVAEIEEMCNILKTEGVTVRRPDPIDWSLKYKTPDFESTGLYSAMPRDILIVVNEII  
EAPMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQDYP IHSVEDRHKLAA  
QKGKFTTEFEPFCDAADFIRAGRDIFAQRSQVTNYLGIEWMRRHLAPDYRVHII SFKDPN  
PMHIDATFNIIGPGIVLSNPDRPCHQIDLFKKAGWTIITPPTPIIPDDHPLWMSSKWL  
SM NVLMLDEKRMVDANEVPIQKMFELGITTIVNIRNANSLGGGFHCWTCDVRRRGLTQS  
YLD

>sp|Q9HCG7|GBA2\_HUMAN Non-lysosomal glucosylceramidase OS=Homo sapiens GN=GBA2 PE=1 SV=2

MGTQDPGNMGTGVPASEQISCAKEDPQVYCPEETGGTKDVQVTDCKSPEDSRPPKETDCC  
NPEDSGQLMVSIEGKAMGYQVPPFGWRICLAHEFTEKRKPFQANNVSLSNMIKHIGMLR  
YLQWWYRKTHVEKKTPIFIDINSVPLRQIYGCPGGIGGGTITRGWRGQFCRWQLNPGMY  
QHRTVIADQFTVCLRREGQTVYQQVLSLERPSVLSWNLGCGYFAFYHALYPRAWTVYQ  
LPGQNVTLTCRQITPILPHDYQDSSLPVGVFVWDVENEGDEALDVSIMFSMRNGLGGGDD  
APGGLWNEPFCLERSGETVRGLLLHPTLPNPYTMVAARVTAATTVTHITAFDPDSTGQ  
QVWQDLLQDGLDSTPGSTPTQKGVGIAGAVCVSSKLPRGQCRLEFSLAWDMPRIMFG  
AKGQVHYRRYTRFFGQDGAAPALSHYALCRYAEWEERISAWQSPVLDRLPAWYKSAL  
FNELYFLADGGTVWLEVEDSLPEELGRNMCHLRPTLRDYGRFGYLEGQEYRMYNTYDVH  
FYASFALIMLWPKLELSLQYDMALATLREDLTRRRYLSGVMAPVKRRNVIPHDIGDPDD  
EPWLRVNAYLIHDTADWKDLNLKFVLQVYRDYYLTGDQNFLKDMWPVCLAVMESEMKFDK  
DHDGLIENGGYADQTYDGVTTGPSAYCGGLWLA AVAVMVQMAALCGAQDIQDKFSSILS  
RGQEAYERLLWNGRYNYDSSSRPQSRVMSDQCAGQWFLKACGLGEGDTEVFPTQHVVR  
ALQTI FELNVQAFAGGAMGAVNGMQPHGVPDKSSVQSDEVWVG VVYGLAATMIQEGLTWE  
GFQTAEGCYRTVWERLGLAFQTPEAYCQQRVFRSLAYMRPLSIWAMQLALQQQHKKASW  
PKVKQGTGLRTGPMFGPKEAMANLSPE

>sp|O14775|GBB5\_HUMAN Guanine nucleotide-binding protein subunit beta-5 OS=Homo sapiens  
GN=GNB5 PE=1 SV=2

MCDQTFVLNVFGSCDKCFKQRALRPVFKKSQQLSYCSTCAEIMATEGLHENETLASLKSE  
AESLKGLLEEERAKLHDELHQVAERVEALGQFVMKTRRTLKGHGKVL CMDWCKDKRRI  
VSSSQDGKVIWDSFTTNKEHAVTMPCTWVMACAYAPSGCAIACGGLDNKCSVYPLTFDK  
NENMAAKKKSAMHTNYLSACSFTNSDMQILTASGDGTCALWDVESGQLLSFHGHGADV  
LCLDLAPSETGNTFVSGGCDKKAMVWDMRSGQCVQAFETHESDINSVRYYPSGDAFASGS  
DDATCRLYDLRADREVAIYSKESIIFGASSVDFSLSGRLLFAGYNDYTINVWDVLKGSRV  
SILFGHENRVSTLRVSPDGTAFCSGSWDHTLRVWA



>sp|P63218|GBG5\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5  
OS=Homo sapiens GN=GNG5 PE=1 SV=3

MSGSSSVAAMKKVVQQLRLEAGLNRVKVQAAADLKQFCLQNAQHDPLLTVSSSTNPFR  
PQKVCSTL

>sp|O14610|GBGT2\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-  
T2 OS=Homo sapiens GN=GNGT2 PE=2 SV=1

MAQDLSEKDLLKMEVEQLKKEVKNTIPISKAGKEIKEYVEAQAGNDPFLKGIPEDKNPF  
KEKGGCLIS

>sp|P32455|GBP1\_HUMAN Guanylate-binding protein 1 OS=Homo sapiens GN=GBP1 PE=1 SV=2

MASEIHMTGPMCLIENTNGRLMANPEALKILSAITQPMVVVAIVGLYRTGKSYLMNKL  
KKKGFSLGSTVQSHTKGIWWCVPHPKPGHILVLLDTEGLGDVEKGDNQNSWIFALAV  
LLSSTFVYNSIGTINQQAMDQLYYVTELTHRIRSKSSPDENENEVEDSADFVSFFPDFVW  
TLRDFSLDLEADGQPLTPDEYLTYSLKLKKGTSQKDETFNLPRLCIRKFFPKKCFVDR  
PVHRRKLAQLEKLQDEELDPEFVQVADFCSYIFSNSTKTLSGGIQVNGPRLESVLTY  
VNAISSGDLPCMENAVLALAQIENSAVQKAI AHYEQQMGQKVLPTETLQELDLHRDS  
EREAIEVFIRSSFQDVDFHFKELAAQLEKKRDDFCKQNEASSDRCSALLQVIFSPLEE  
EVKAGIYSPGGYRLFVQKLQDLKKKYYEPRKGIQAEELQTYLKSKESTDAILQTDQ  
TLTEKEKEIEVERVKAESAQASAKMLQEMQRKNEQMMQKERSYQHLKQLTEKMENDRV  
QLLKEQERTLALKLQEQEQLLKEGFQKESRIMKNEIQDLQTKMRRRKACTIS

>sp|Q8N8V2|GBP7\_HUMAN Guanylate-binding protein 7 OS=Homo sapiens GN=GBP7 PE=2 SV=2

MASEIHMPGPVCLTENTKGHLVNSEALEILSAITQPVVVVAIVGLYRTGKSYLMNKL  
KNKGFPLGCTVKSETKGIWWCVPHPSKPNHTLILLDTEGLGDMEKSDPKSDSWIFALAV  
LLSSSFVYNSMGITNHQALEQLHYVTELTIRAKSCRPDEVEDSSEFVSFFPDFIWT  
RDFTELEKLDGHPITEDEYLENALKLISGKNPQIQNSNKPREWIRHFFPKQKCFVDRPI  
NDKLLLVHEEVREDQLDSNFQMQSENFCSYIFTHAKTKTLREGILVTGNRLGMLVETYL  
DAINSATPCLENAMAVLAQCENSAVQRAANHYSQQMAQQVRFPTDTLQELLDVHAVCE  
REAIIVFMEYSFKDKSQEFQKKLVDTMEKKKEDFVLQNEEASAKYCQELKRLSELLTES  
ISRGTFVPGGHNILEAKKKIEQDYTLVPRKGVKADEVLSFQLSQVVEESILQSDKA  
LTAGEKAI AAKQAKKEAAEKEQELLRQKQKEQQQMMQEAQERSFQENIAQLKKMEREREN  
YMRRLKMLSHKMKVLEELLTEGFKEIFESLNEEINRLKEQIEAAENEPSVFSQILDVA  
GSIFIAALPGAALVDLGMKILSSLCNRLRNPGKKIIS

>sp|P47870|GBRB2\_HUMAN Gamma-aminobutyric acid receptor subunit beta-2 OS=Homo sapiens  
GN=GABRB2 PE=1 SV=2

MWRVRKRGYFGIWSFPLIIAAVCAQSVNDPSNMSLVKETVDRLKGYDIRLRPDFGGPPV  
AVGMNIDIASIDMVSEVNMDYTLTMYFQQAWRDKRLSYNVIPLNLTDNRVADQLWVPDT  
YFLNDKKS FVHGVTVKNRMIRLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIES  
YGYTTDDIEFYWRGDDNAVTVTKIQLPQFSIVDYKLITKKVVFSTGSYPRLSLSFKLKR  
NIGYFILQTYMPSILITLSWVSFWINYDASAARVALGITTVLMTTINTHLRETLPKIP  
YVKAIDMYLMGCFVVFMALLEYALVNYIFFGRGPQRQKAAEKAASANNEKMRLDVNKI  
FYKDIKQNGTQYRSLWDPTGNLSPTRRTTNYDFSLYTMPHENILLSTLEIKNEMATSEA  
VMGLGDPRSTMLAYDASSIQYRKAGLPRHSFGRNALERHVAQKKSRLRRRASQLKITIPD  
LTDVNAIDRWSRIFFPVVFSFFNIVWLYYVN

>sp|Q8N1C3|GBRG1\_HUMAN Gamma-aminobutyric acid receptor subunit gamma-1 OS=Homo sapiens  
GN=GABRG1 PE=2 SV=2

MGPLKAFLFSPFLLRSQSRGVRLVFLLLTLHLGNCVDKADDEDDEDLTVNKTWVLAPKIH  
EGDITQILNSLLQGYDNKLRPDIGVRPTVIETDVYVNSIGPVDPINMEYTIDIIFAQTWF  
DSRLKFNSTMKVLMNSNMVGKIWIPDTFFRNSRKSDAHWITTPNRLRLIWNDRVLYTL  
RLTINAECYLQLHNFPMDEHSCPLEFSSYGYPKNEIEYKWKKPSVEVADPKYWRLYQFAF  
VGLRNSTEITHTISGDYVIMTIFFDLSRRMGYFTIQTYIPCILTVVLSWVSFWINKDAVP  
ARTSLGITTVLMTTLSTIARKSLPKVSYVTAMDLFVSVCFIFVFAALMEYGLHYFTSN  
QKGKTATKDRKLNKASMTPLHPGSTLIPMNNISVPQEDDYGQCLEGKDCASFFCCFE  
DCRTGSWREGRIHIRIAKIDSYSRIFPTAFALFNLVYVVGYYL

>sp|Q99928|GBRG3\_HUMAN Gamma-aminobutyric acid receptor subunit gamma-3 OS=Homo sapiens  
GN=GABRG3 PE=2 SV=2

MAPKLLLLLCLFSGLHARSRKVEEDEDSSSNQKWVLAPKSQDQTDVTLILNKLLEYDK  
KLRPDIGIKPTVIDVDIYVNSIGPVSSINMEYQIDIFFAQTWDSRLRFNSTMKILTLNS  
NMVGLIWIPDTIFRNSKTAEAHWITTPNQLRLIWNDRGKILYTLRLTINAECQLHNFPM  
DEHSCPLIFSSYGYPKNEIYRWRKNSVEAADQKSWRLYQFDFMGLRNTTEIVTTSAGDY  
VVMTIYFELSRRMGYFTIQTYIPCILTVVLSWVSFWIKKDATPARTALGITTVLMTTL  
TIARKSLPRVSYVTAMDLFVTVCFVFAALMEYATLNYSSCRKPTTKKTTSLHPDS  
SRWIPERISLQAPSNYSLLDMRPPTAMITLNNSVYWQEFEDTCVYECLDGKDCQSFCC  
YEECKSGSWRKGRIHIDILELDSYSRVFFPTSFLFNLVYVVGYYL

>sp|P28476|GBRR2\_HUMAN Gamma-aminobutyric acid receptor subunit rho-2 OS=Homo sapiens  
GN=GABRR2 PE=2 SV=5

MPYFTRLILFLFCLMVLVESRKPKRKRWTGQVEMPKPSHLYKKNLDVTKIRKGKPKQLLR  
VDEHDFSMRPAFGGPAIPVGVDVQVESLDSISEVDMDFMTLYLRHYWKDERLAFSSASN  
KSMTFDGRLVKKIWPDPVFFVHSKRSFTHDTTDNIMLRVFPDGHVLYSMRITVTAMCNM  
DFSHPPLDSQTCSELESYAYTDEDLMLYWKNGDESLKTDEKISLSQFLIQKFHTTSRLA  
FYSSTGWYNRLYINFTLRRHIFFFLLQTYFPATLMVMSWVSFWIDRRAPARVSLGITT  
VLTMTTITITGVNASMPRVSYVKAVDIYLWVSFVFLSVLEYAANVNYLTTVQERKERKLR  
EKFPCMCMLHSKTMMLDGSYSESEANSLAGYPRSHILTEEERQDKIVVHLGLSGEANAA  
RKKGLLKGGTGRIFQNTHAIDKYSRLIFPASYIFFNLIYWSVFS

>sp|Q495W5|FUT11\_HUMAN Alpha-(1,3)-fucosyltransferase 11 OS=Homo sapiens GN=FUT11 PE=1  
SV=1

MAAGPIRVVLVLLGVLSVCAASGHGSVAEREAGGEAEWAEPWDGAVFRPPSALGAVGVTR  
SSGTPRPGREEAGDLPVLLWWSPLGFPHFPGDSERIECARGACVASRNRRLRDSRTRAL  
LFYGTDFRASAAPLRLAHQSWALLHEESPLNNFLLSHGPGIRLFNLSTFSRHSYDPLS  
LQWLPGTAYLRRPVPPPMERAEWRRRGYAPLLYLQSHCDVPADRDRYVRELMRHIPVDSY  
GKCLQNRELPTARLQDTATATTEDPELLAFLSRYKFHLALENAICNDYMTEKLWRPMLHG  
AVPVYRGSPSVRDWMPNNHSVILIDDFESPQKLAEFIDFLDKNDEEYMKYLAYKQPGGIT  
NQFLDSLKHREWGVDPLLPNYLNGFECFVCDYELARLDAEKAHAASPGDSPVFEPHIA  
QPSHMDCPVPTPGFGNVVEIPENDSWKEMWLQDYWQGLDQGEALTAMIHNNETEQTGFWD  
YLHEIFMKRQHL

>sp|Q11128|FUT5\_HUMAN Alpha-(1,3)-fucosyltransferase 5 OS=Homo sapiens GN=FUT5 PE=2 SV=1

MDPLGPAKPQWLWRRCLAGLLFQLLVAVCFYSYLRVSRDDATGSPRPGLMAVEPVTGAPN  
GSRCQDSMATPAHPTLLILLWTPFNTPVALPRCEMVPGAADCNITADSSVYPQADAVI  
VHHWDIMYNPSANLPPPTRPQGQRWIWFSMESPSNCRHLEALDGYFNLTMSYRSDSDIFT  
PYGWLEPWGQPAHPPLNLSAKTELVAWAVSNWKPD SARVRYQSLQAHLKVDVYGRSHK

PLPKGTMMETLSRYKFYLAFENSLHPDYITEKLWRNALEAWVPVVLGSPRSNYERFLPP  
DAFIHVDDFQSPKDLARYLQELDKDHARYLSYFRWRETLRPRSFSWALAFCKACWKLQQE  
SRYQTVRSIAAWFT

>sp|Q96N19|G137A\_HUMAN Integral membrane protein GPR137 OS=Homo sapiens GN=GPR137 PE=2  
SV=2

MESNLSGLVPAAGLVPALPPAVTLGLTAAYTTLYALLFFSVYAQLWLVLLYGHKRLSYQT  
VFLALCLLWAAALRTTLFSFYFRDTPRANRLGPLFWLLYCCPVCLQFFTLTLMNLYFAQV  
VFKAKVKRRPEMSRGLLAVRGAFV GASLLFLLVNVLCVLSHRRRAQPWALLLVRLVSD  
SLFVICALSLAACLCVARRAPSTSIYLEAKGTSVCQAAAMGGAMVLLYASRACYNLTAL  
ALAPQSRLDTFDYDWINVSDQADLVNDLGNGYLVFGLILFVWELLPTLLVGFFRVHRP  
PQDLSTSHILNGQVFASRSYFFDRAGHCEDEGCSWEHSRGESTRCQDQAATTTVSTPPHR  
RDPPPSPTTEYPGSPPHRPLCQVCLPLLAQDPGGRGYPLLWPAPCCSCHSELVSP

>sp|O60478|G137B\_HUMAN Integral membrane protein GPR137B OS=Homo sapiens GN=GPR137B PE=2  
SV=1

MRPERPRRGSAPGPMETPPWDPARNDLPPTLTPAVPPYVKLGLTVVYTVFYALLFVFI  
YVQLWLVLRYRHKRLSYQSVFLFLCLFWASLRTVLF SFYFKDFVAANSLSPFVFWLLYCF  
PVCLQFFTLTLMNLYFTQVIFKAISKYSPELLKYRLPLYLASLFI SLVFLVNLTCAVLV  
KTGNWERKVIIVSVRVAINDTLFVLCVLSICLYKISKMSLANIYLESKGSSVCQVTAIG  
VTVILLYTSRACYNLFILSFSQNKSVHSFDYDWINVSDQADLKNQLGDAGYVLFVGVLFV  
WELLPTTLVVYFFRVNRNPTKDLTNPGMVPSHGFSRPSYFFDNPRRYDSDDDLAWNIAPQG  
LQGGFAPDYDYGQQTNSFLAQAGTLQDSTLDPDKPSLG

>sp|O75293|GA45B\_HUMAN Growth arrest and DNA damage-inducible protein GADD45 beta OS=Homo  
sapiens GN=GADD45B PE=1 SV=1

MTLEELVACDAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLA  
IDEEEEDDIALQIHFTLIQSFCDDNDINIVRVSGMQRLAQLLGEPAETQGTTEARDLHCL  
LVTNPHTDAWKSHGLVEVASYCEESRGNNQWVPYISLQER

>sp|Q9UCQ2|GAB2\_HUMAN GRB2-associated-binding protein 2 OS=Homo sapiens GN=GAB2 PE=1 SV=1

MSGGQDVVCTGWLKSPPEKKLRRYAWKKRWFILRSGRMSGDPDVLEYYKNDHKKPLRI  
INLNFCEQVDAGLTFNKKELQDSFVFDIKTSERTFYLVAEEDMNKWWQSICQICGFNQ  
AEESTDSLNRNVSSAGHGPRSSPAELSSSSQHLLRERKSSAPSHSSQPTLFTFEPPVSNHM  
QPTLTSAPQEYLYLHQCISRAENARSASFSGQTRASFLMRSDTAVQKLAQGNGHCVNG  
ISGVHGFYSLPKPSRHNTFEFRDSTYDLPRSLASHGHTKGS LTGSETDNEDVYTFKTPSN  
TLCREFGDLLVDNMDVPATPLSAYQIPRTFTLDKNHNAMTVATPGDSAIAPPPRPPKPSQ  
AETPRWGSPQQRPISENSRSVAATIPRRNTLPAMDNSRLHRASSCETYEYPQRGGESAG  
RSAESMSDGVGSFLPGKMIVGRSDSTNSEDNYVPMNPGSSTLLAMERAGDNSQSVYIPMS  
PGAHHFDSLGYPSTTLPVHRGPSRGSEIQPPPVNRNLKPDRKAKPTPLDLRNNTVIDELP  
FKSPITKSWSRANHTFNSSSSQYCRPISTQSI TSTDGSEENYVPMQNPVSASPVPSGT  
NSPAPKKSTGSVDYLALDFQPSSPSPHRKPSTSSVTSDEKVDYVQVDKEKTQALQNTMQE  
WTDVRQSSEPSKGAKL

>sp|Q9UBS5|GABR1\_HUMAN Gamma-aminobutyric acid type B receptor subunit 1 OS=Homo sapiens  
GN=GABBR1 PE=1 SV=1

MLLLLLLAPLFLRPPGAGGAQTPNATSEGCQIIHPPWEGGIRYRGLTRDQVKAINFLPVD  
YEIEYVCRGEREVGPKVRKCLANGSWTDMTPSRCVRIKSKSYLTLENGKVFLTGGDLP  
ALDGARVDFRCDPDFHLVGSSRSICSQGGWSTPKPHCQVNRTPHSERRAVYIGALFPMSG

GWPGGQACQPAVEMALEDVNSRRDILPDYELKLIHHSKCDPGQATKYLYELLYNDPIKI  
ILMPGCSSVSTLVAEARMWNLIVLSYGSSSPALSNRQRFPTFFRTHPSATLHNPTRVKL  
FEKGWKKIATIQQTTEVFTSTLDDLEERVKEAGIEITFRQSFFSDPAVPVKNLKRQDAR  
IIVGLFYETEARKVFCEVYKERLFGKKYVWFLIGWYADNWFKIYDPSINCTVDEMTEAVE  
GHITTEIVMLNPANTRISISNMTSQEFVEKLTKRLKRHPEETGGFQEAPLAYDAIWALALA  
LNKTSGGGGRSGVRLEDFNYYNNQTITDQIYRAMNSSSFEGVSGHVVDASGSRMAWTLIE  
QLQGGSYKKIGYDSTKDDLSWSTDKWIGGSPPADQTLVIKTRFLSQKLFISVSVLSS  
LGIVLAVVCLSFNIYNHVRVYIQNSQPNLNNLTAVGCSLALAAVFPGLDGYHIGRNQFP  
FVCQARLWLLGLGFSLGYGSMFTKIWWVHTVFTKKEEKEWRKTLEPWKLYATVGLLVGM  
DVLTLAIWQIVDPLHRTIETFAKEPKEDIDVSILPQLEHCSSRKMNTWLGIIFYGYKGLL  
LLLGIFLAYETKSVSTEKINDHRAVGMAIYNVAVLCLITAPVTMILSSQQDAAFASFSLA  
IVFSSYITLVVLFVPKMRLITRGEWQSEAQDTMKTGSSTNNNEEEKSRLEKENRELEK  
IIAEKEERVSELRHQLQSRQQLRSRRHPPTPPEPSGGLPRGPPEPPDRLSCDGSRVHLLY  
K

>sp|Q6ZQY3|GADL1\_HUMAN Acidic amino acid decarboxylase GADL1 OS=Homo sapiens GN=GADL1  
PE=1 SV=4

MSSSDSRQCPVDGDIDQQEMIPSKKNAVLVDGVVLNGPTTDAKAGEKFVEEACRLIMEEV  
VLKATDVNEKVCEWRPPEQLKQLLDLEMRDSGEPHKLLELCRDVIHYSVKTNHPRFFNQ  
LYAGLDYYSVLARFMTEALNPSVYTYEVSPVFLVVEEAVLKKMIEFIGWKEGDGIFNPGG  
SVSNMYAMNLARYKYCPDIKEKGLSGSPRLILFTSAECHYSMKKAASFLGIGTENVCFVE  
TDGRGKMIPEELEKQVWQARKEGAAPFLVCATSGTTVLGAFDPLDEIADICERHSLWLHV  
DASWGGSALMSRKHRLKLLHGIHRADSVAWNPHKMLMAGIQCCALLVKDKSDLLKKCYSAK  
ASYLFQQDKFYDVSYDTGDKSIQCSRRPDAFKFWMTWKALGTLGLEERVNRLALSRYLV  
DEIKKREGFKLLMEPEYANICFWYIPPSLREMEEGPEFWAKLNLVAPAIKERMMKKGSLM  
LGYQPHRGKVNFFRQVVISPQVSREDMDFLLEIDLLGKDM

>sp|Q13069|GAGE5\_HUMAN G antigen 5 OS=Homo sapiens GN=GAGE5 PE=1 SV=1

MSWRGRSTYYWPRPRRYVQPPEVIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAQEGE  
DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|O76087|GAGE7\_HUMAN G antigen 7 OS=Homo sapiens GN=GAGE7 PE=2 SV=1

MSWRGRSTYYWPRPRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAQEGE  
DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|P54803|GALC\_HUMAN Galactocerebrosidase OS=Homo sapiens GN=GALC PE=1 SV=3

MAEWLLSASWQRRAKAMTAAAGSAGRAAVPLLLCALLAPGGAYVLDDSDGLGREFDGIGA  
VSGGGATSRLLVNYPEPYRSQILDYLFKPNFGASLHILKVEIGGDGQTTDGTETPSHMHYA  
LDENYFRGYEWLMKEAKRNPNTLIGLPWSFPGWLKGFDWPYVNLQLTAYYVVTWIV  
GAKRYHDLDDIDYIGIWNERSYNANYIKILRKMLNYQGLQRVKIIASDNLWESISASMLLD  
AELFKVVDVIGAHYPGTHSAKDAKLTKKLWSSSEDFSTLNSDMGAGCWGRILNQYINGY  
MTSTIAWNLVASYEQLPYGRCLMTAQEPWSGHYVVESPVVSAHTTQFTQPGWYYLKT  
VGHLEKGSYVALTDGLGNLTIIETMSHKHSCIRPFLPYFNVSQQFATFVLKGSFSEI  
PELQVWYTKLGKTSERFLFKQLDSLWLLSDGSFTLSLHEDELFTLTTLTTGRKGSYPLP  
PKSQPFPPSTYKDDFNVDPFFSEAPNFADQTVFEYFTNIEDPGEHHFTLRQVLNQRPIIT  
WAADASNTISIIIGDYNWNTLTIKCDVYIETPDTGGVFIAGRVNKGILIRSARGIFFWIF  
ANGSYRVTGDLAGWIIYALGRVEVTAKKWYTLTLTIKGHFTSGMLNDKSLWTDIPVNFPK  
NGWAAIGTHSFEFAQFDNFLVEATR

>sp|Q14435|GALT3\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 3 OS=Homo sapiens  
GN=GALNT3 PE=1 SV=2

MAHLKRLVKLHKRHYHKKFWKLGAIVFFFIIVLVLMQREVSVQYSKEESRMERNMKNKN  
KMLDLMLEAVNNIKDAMPKMQIGAPVRQNIDAGERPCLQGYTTAAELKPVLDPRPPQDSNA  
PGASGKAFKTTNLSVEEQKEKERGEAKHCFNAFASDRISLHRDLGPDTRPPECIEQKFKR  
CPPLPTTSVIIIVFHNEAWSTLLRTVHSVLYSSPAILLKEIILVDDASVDEYLHDKLDEYV  
KQFSIVKIVRQRERKGLITARLLGATVATAETLTFLDAHCECFYGWLEPLLARIAENYTA  
VVSPDIASIDLNTFEFNKPSPYGSNNHNRGNFDWLSLFGWESLPDHEKQRRKDETYPIKTP  
TFAGGLFSISKEYFEYIGSYDEEMEIWGGENIEMSFRVWQCGGQLEIMPCSVVGHVFRSK  
SPHSFPKGTQVIARNQVRLAEVWMDEYKEIFYRRNTDAAKIVKQKAFGDLSKRFEIKHRL  
QCKNFTWYLNNIPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQGGKPLIMYTCHGLGG  
NQYFEYSAQHEIRHNIQKELCLHAAQGLVQLKACTYKGHKTVVTGEQIWEIQKDQLLYNP  
FLKMCLSANGEHPSLVSCNPSDPLQKWILSQND

>sp|P07902|GALT\_HUMAN Galactose-1-phosphate uridylyltransferase OS=Homo sapiens GN=GALT  
PE=1 SV=3

MSRSGTDPQQRQQAASEADAAAATFRANDHQHIRYNPLQDEWVLVSAHRMKRPWQGQVEPQ  
LLKTVPRHDPLNPLCPGAIRANGEVNPQYDSTFLFDNDFPALQPDAPSPGPSDHPLFQAK  
SARGVCKVMCFHPWSDVTLPLMSVPEIRAVVDAWASVTEELGAQYPWVQIFENKGAMMGC  
SNPHPHCQVWASSFLPDIAQREERSQQAYKSQHGEPLLMEYSRQELLRKERLVLTSSEHWL  
VLVPFWATWPYQTLTLLPRRHVRRLPELTPAERDDLASIMKKLLTKYDNLFETSFPSMGW  
HGAPTGSEAGANWNHWQLHAHYYPPLRSATVRKFMVGYEMLAQAQRDLTPEQAAERLRA  
LPEVHYHLGQKDRETATIA

>sp|O60861|GAS7\_HUMAN Growth arrest-specific protein 7 OS=Homo sapiens GN=GAS7 PE=1 SV=3

MSGARCRTLYPFSGERHGQGLRFAAGELITLLQVPDGGWWEKEDGLRGWFPASYVQLL  
EKPGMVP PPPGEESQTVILPPGWQSYLSPQGRRYYVNTTTNETTWERPSSSPGIPASPGS  
HRSSLPTVNGYHASGTPAHPETAHMSVRKSTGDSQNLGSSSPSKKQSKENTITINCVT  
FPHPDTPMEQQLLKPTESYCDYFWADKKDPQGNGTVAGFELLQKQLKGKQMQKEMSEF  
IRERIKIEEDYAKNLAKLSQNSLASQEEGSLGEAWAQVKSLADEAEVHLKFSAKLHSEV  
EKPLMNFRENFKDKMKCDHHIADLRKQLASRYASVEKARKALTERQRDLEMKTQQLLEIK  
LSNKTEEDIKKARRKSTQAGDDLRCVDLYNQAQSKWFEEMVTTTLELERLEVERVEMIR  
QHLCQYTQLRHETDMFNQSTVEPVDQLLRKVDPAKDRELWVREHKTGNIRPVDMEI

>sp|Q96D09|GASP2\_HUMAN G-protein coupled receptor-associated sorting protein 2 OS=Homo  
sapiens GN=GPRASP2 PE=1 SV=1

MTGAEIEPSAQAKPEKKAGEEVIAGPERENDVPLVVRPKVRTQATTGARPKTETKSVPA  
RPKTEAQAMSGARPKTEVQVMGGARPKTEAQGITGARPKTDARAVGGARSKTDAKAIPGA  
RPKDEAQAWAQSEFGTEAVSQAEGVSQTNAAWPLATAESGSVTKSKGLSMDRELNVNDA  
ETFTPGTQGQKGIQWFGPGEETNMGSWCYSRPRAREEASNESGFWSADETSTASSFWTGE  
ETSVRSWPRESNTRSRRHAKHQTNPRSRPRSKQEAYVDSWGSSEDEASNPFSFWVGENT  
NNLFRPRVREEANIRSKLRNREDCFESESEDEFYKQSWVLPGEEANSRFRHRDKEDPNT  
ALKLRAQKDVDSDRVQKQEPFEEVEIIGSWFWAEKEASLEGGASAICESEPgteegaIGG  
SAYWAEKSSLGAVAREEAKPESEEEAIFGSWFWRDEACFDLNPVYKVSDFRFRDAE  
ELNASSRPQTWDEVTFEFPGLFHGVGFRSTSPFGIPEEASEMLEAKPKNLELSPEGEEQ  
ESLLQPDQPSPEFTFYDPSYRSVREIREHLRARESAESESWSCSCIQCELKIGSEEFEE  
FLLMDKIRDPIHEISKIAMGMRASQFTRDFIRDSGVVSLIETLLNYPSSRVRTSFLE

NMIHMAPPYPNLNMIETFICQVCEETLAHSVDSLEQLTGIRMLRHLTMTIDYHTLIANYM  
SGFLSLLTTANARTKFHVLKMLLNLSENPAVAKKLFSAKALSIFVGLFNIEETNDNIQIV  
IKMFQNISNIIKSGKMSLIDDDFSLEPLISAFREFEELAKQLQAQIDNQNDPEVGQQS

>sp|P15976|GATA1\_HUMAN Erythroid transcription factor OS=Homo sapiens GN=GATA1 PE=1 SV=1

MEFPGLGSLGTSEPLPQFVDPALVSSTPESGVFFPSGPEGLDAAASSTAPSTATAAAAAAL  
AYYRDAEAYRHSPVFQVYPLLNCMEGIPGGSPYAGWAYGKTGLYPASTVCPTREDSPPQA  
VEDLDGKGSTSFLETLKTERLSPDLLTLGPALPSSLPVPNSAYGGPDFSSTFFSPTGSPL  
NSAAYSSPKLRGTLPLPPCEARECVNCGATATPLWRRDRTGHYLCNACGLYHKMNGQNRP  
LIRPKRRLIVSKRAGTQCTNCQTTTTTLWRRNASGDPVCNACGLYYKLHQVNRPLTMRKD  
GIQTRNRKASGKGKKRGSLSGGTGAAEGPAGGFMVVAGSGSGNCGEVASGLTLGPPGT  
AHLYQGLGPVVLSGPVSHLMPFPGPLLGSPTGSFPTGMPPTTSTTVVAPLSS

>sp|Q92908|GATA6\_HUMAN Transcription factor GATA-6 OS=Homo sapiens GN=GATA6 PE=1 SV=2

MALTDGGWCLPKRFGAAGADASDSRAFPAREPSTPPSPISSSSSSCSRGGERGPGGASNC  
GTPQLDTEAAAGPPARSLSSSYASHPFAGHPGAPGAGPAGNLSSWEDLLLFTDLQ  
AATASKLLWSSRGAKLSPFAPEPEEMYQTLAALSSQGPAAVDGAPGGFVHSAAAAAA  
AAASSPVYVPTTRVGSMLPGLPYHLQSGSGPANHAGGAGHPGWPQASADSPPYSGGG  
AAGGAAGPGGAGSAAAHVSARFPYSPSPPMANGAAREPGGYAAAGSGGAGGVSGGSSL  
AAMGGREPQYSSLSAARPLNGTYHHHHHHHHHHPSPYSPYVGAPLTPAWPAGPFETPVLH  
SLQSRAGAPLPVPRGPSADLLEDLSESRECVNCGSIQTPLWRRDGTGHYLCNACGLYSKM  
NGLSRPLIKPQKRVPSSRRLGLSCANCHTTTTLWRRNAEGEPVCNACGLYMKLHGVRP  
LAMKKEGIQTRKRKPKNINKSKTCSGNSNNSIPMTPTSTSSNDDCSKNTSPTTQPTASG  
AGAPVMTGAGESTNPENSELKYSQDGLYIGVSLASPAEVTSSVRPDSWCALALA

>sp|Q17RS7|GEN\_HUMAN Flap endonuclease GEN homolog 1 OS=Homo sapiens GN=GEN1 PE=1 SV=2

MGVNDLWQILEPVKQHIPLRNLGGKTIADVLSLWVCEAQTVKKMMGSVMKPHLRNLFFRI  
SYLTQMDVKLVFVMEGEPKPKADVISKRNQSRYGSSGKSWSQKTGRSHFKSVLRECLHM  
LECLGIPWVQAAGEAEAMCAYLNAGGHVDGCLTNDGDTFLYGAQTVYRNFTMNTKDPHVD  
CYTMSSIKSKLGLDRDALVGLAILLGCDYLPKGVPGVGKEQALKLIQILKGQSLLQRFNR  
WNETSCNSSPQLLVTKKLAHCSVCSPHGPSKPDHERNGCRLCKSDKYCEPHDYEYCCPEW  
HRTEHDRQLSEVENNIKKKACCCEGPFHEVIEFLLNKDKLVKVIYRQRPDLLLLFQRF  
LEKMEWPNHYACEKLLVLLTHYDMIERKLGSRSNQLQPIRIVKTRIRNGVHCFEIEWEK  
PEHYAMEDKQHGEFALLTIEEESLFEAAYPEIVAVYQKQKLEIKGKKQKRIKPKENNLPE  
PDEVMSFQSHMTLKPTCEIFHKQNSKLSNGISPDPTLPQESISASLSLLLPKNTPCLNA  
QEQFMSSLRPLAIQIKAVSKSLISESSQPNTSSHNISVIADLHLSTIDWEGTSFSNSPA  
IQRNTFSHDLKSEVESELAIIPDGFENIPEQLSCESERYTANIKKVLDESDSGISPEEHL  
LSGITDLCLQDLPLKERIFTKLSYPQDNLQPDVNLKTLISLKVESCIA NSGSDCTSHLS  
KDLPGIPLQNESRDSKILKGDQLLEDYKVNTSVPYSVSNTVVKTCNVRPPNTALDHSRK  
VDMQTRKILMKSVCLDRHSSDEQSAPVFGAKAYTTQRMKHSSQKHNSSHFKESGHNKL  
SSPKIHIKETEQCVRSYETAENEESCFPDSTKSSLSLQCHKKENNSGTCLDSPLPLRQR  
LKLRFQST

>sp|Q92820|GGH\_HUMAN Gamma-glutamyl hydrolase OS=Homo sapiens GN=GGH PE=1 SV=2

MASPGCLLCVLGLLLGAASLELSRPHGDTAKKPIIGILMQCRNKVMKNYGRYYIAASY  
VKYLESAGARVVPVRLDLTEKDYEILFKSINGILFPGGSVDLRRSDYAKVAKIFYNLSIQ  
SFDDGDYFPVWGTCLGFEELSLLISGECLLTATDVTVDAMPLNFTGGQLHSRMFQNFPT  
LLLSLAVEPLTANFHKWSLSVKNFTMNEKLKFFNVLTNTDGKIEFISTMEGYKYPVYG

VQWHPEKAPYEWKNLDGISHAPNAVKTAFYLAEFFVNEARKNNHHFKSESEEEKALIYQF  
SPIYTGNISSFQQCYIFD

>sp|Q9BX51|GGTL1\_HUMAN Gamma-glutamyltransferase light chain 1 OS=Homo sapiens GN=GGTLC1  
PE=2 SV=2

MTSEFFSAQLRAQISDDTTHPISYYKPEFYMPDDGGTAHLSVVAEDGSAVSATSTINLYF  
GSKVRSPVSGILLNNEMDDFSSTSITNEFGVPPSPANFIQPGKQPLSSMCPTIMVGQDGQ  
VRMVVGAAGGTQITMATALAIYNLWFGYDVKWAVEEPRLHNQLLPNVTVERNIDQEV  
TAALETRHHHTQITSTFIAVVQAIVRMAGGWAAASDSRKGGEPA

>sp|Q14390|GGTL2\_HUMAN Gamma-glutamyltransferase light chain 2 OS=Homo sapiens GN=GGTLC2  
PE=2 SV=4

MTSEFFAAQLRAQISDDTTHPISYYKPEFYTPVDGGTAHLSVVAEDGSAVSATSTINLYF  
GSKVRSPVSEILFNDEMDDFSSPNITNEFGVPPSPANFIQPGKQPLSSMCPTIMVGQDGQ  
PPSHADHTPMPQAIYNLWFGYDVKRAVEEPRLHNQLLPNVTVERNIDQAVTAALETRH  
HHTQIASTFIAVVQAIVRTAGGWAAASDSRKGGEPA

>sp|Q9H1K4|GHC2\_HUMAN Mitochondrial glutamate carrier 2 OS=Homo sapiens GN=SLC25A18 PE=1  
SV=1

MTHQDLSITAKLINGGVAGLVGVTCTVFPIDLAKTRLQNQHKGAMYKGMIDCLMKTARAEG  
FFGMYRGAAVNLTLVTEKAIKLAANDFFRRLLMEDGMQRNLKMEMLAGCGAGMCQVVVT  
CPMEMLKIQLQDAGRLAVHHQGSASAPSTSRSYTTGSASTHRRPSATLIAWELLRTQGLA  
GLYRGLGATLLRDIPFSIIYFPLFANLNLGFNELAGKASFAHSFVSGCVAGSIAAVAVT  
PLDVLKTRIQTLLKGLGEDMYSGITDCARKLWIEGPSAFMKGAGCRALVIAPLFGIAQG  
VYFIGIGERILKCFD

>sp|P35637|FUS\_HUMAN RNA-binding protein FUS OS=Homo sapiens GN=FUS PE=1 SV=1

MASNDYTQQATQSYGAYPTQPGQGYSSQPYGQSYSGYSQSTDTSGYGQSSYSSYGQ  
SQNTGYGTQSTPGYGSTGGYSSQSSQSSYGGQSSYPGYGQPPAPSSTSGSYGSSSQSS  
SYGQPQSGSYSQPSYGGQQQSYGQQQSYNPPQGYGQQNQYNSSSGGGGGGGGGNYGQD  
QSSMSSGGGSGGYGNQDQSGGGGSGGYGQDRGGRGRGSGGGGGGGGGYNRSSGGYE  
PRGRGGGRGGRGMGSDRGGFNKFGGPRDQGSRDSEQDNDNTIFVQQLGENVTIES  
VADYFKQIGIIKTNKKTGQPMINLYTDRETGKLKGEATVSFDDPPSAKAAIDWFDGKEFS  
GNPIKVSFATRRADFNRGGNGRGGRGGRGPMGRGGYGGGSGGGGRGGFPGGGGGGGQ  
QRAGDWKCPNPTCENMFSWRNECNQCKAPKPDGPGGPGGSHMGNYGDDRRGGRGGYD  
RGGYRGRGGDRGGFRGGGGDRGGFGPGKMDSRGEHRQDRRERPY

>sp|P21217|FUT3\_HUMAN Galactoside 3(4)-L-fucosyltransferase OS=Homo sapiens GN=FUT3 PE=2  
SV=1

MDPLGAAKPQWPWRRCLAALLFQLLVAVCFYSYLRVSRDDATGSPRAPSGSSRQDTTPTR  
PTLLILLWTWPFHIPVALSRCSEMVPGTADCHITADRKVYPQADTVIVHHWDIMSNPKSR  
LPPSPRPQGQRWIWFNLEPPPNQCQHLEALDRYFNLTMSYRSDSDIFTYPGWLEPWSGQPA  
HPPLNLSAKTELVAWAVSNWKPDSARVRYQSLQAHLKVDVYGRSHKPLPKGTMMETLSR  
YKFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGSPRSNYERFLPPDAFIHVDDFQSPK  
DLARYLQELDKDHARYLSYFRWRETLRPRFSWALDFCKACWKLQQESRYQTVRSIAAWF  
T

>sp|Q9NPG1|FZD3\_HUMAN Frizzled-3 OS=Homo sapiens GN=FZD3 PE=1 SV=1

MAMTWIVFSLWPLTVFMGHIGGHSLSFCEPITLRMCQDLPYNTTFMPNLLNHYDQQTAAAL  
AMEPFHPMVNDCSRDRFPFLCALYAPICMEYGRVTLPCCRRLCQRAYSECSKLMEMFGVP

WPEDMECSRFPDCDEPYRLVDNLAGEPTGAPVAVQRDYGFWCPRELKIDPDLGYSFL  
HVRDCSPPCPNMYFRREELSFARYFIGLISIIICLSATLFTFLTFLIDVTRFRYPERPIIF  
YAVCYMMVSLIFFIGFLLDRVACNASIPAQYKASTVTQGSNKACTIONLMFAMILYFFTMAG  
SVVWVILTITWFLAAVPKWGSEAEIEKKALLFHASAWGIPGTLTIILLAMNKIEGDNISGV  
CFVGLYDVDALRYFVLAPLCLYVVVGVSLLLAGIISLNRVRIEIPLEKENQDKLVKFMIR  
IGVFSILYLVPLLVVGICFYEQAYRGIWETTWIQUERCYHPCPYQVTQMSRPDLILF  
LMKYLMAIIVGIPSVFVVGSKKTCFEWASFFHGRKKEIVNESRQVLQEPDFAQSLLRDP  
NTPIIRKSRGTSTQGTSTHASSTQLAMVDDQRSKAGSIHSKVSSYHGSLSRSDGRYTPC  
SYRGMEERLPHGMSRLTDHSRHHSSSHRLNEQSRHSSIRDLSSNNPMTHITHGTSMNRVIE  
EDGTSA

>sp|Q9ULV1|FZD4\_HUMAN Frizzled-4 OS=Homo sapiens GN=FZD4 PE=1 SV=2

MAWRGAGPSVPGAPGGVGLSLGLLQLLLLLGPARGFGDEEERRCDPIRISMCQNLGYNV  
TKMPNLVGHELQTDALQLTFTPLIQYGCSSQLQFFLCSVYVPMCTEKINIPIGPCGGM  
CLSVKRRCEPVLKEFGFAWPESLNCSEKFPQNDHNMCMGPGDEEVPLPHKTPIQPGEE  
CHSVGTNSDQYIIVKRSNLVLCGYDAGLYSRSAKEFTDIWMAVWASLCFISTAFVLT  
FLIDSSRFSYPERPIIFLSMCYNIYSIAYIVRLTVGRERISCDFEAAEPVLIQGLKNT  
GCAIFLLMYFFGMASSIWWVILTITWFLAAGLKWGHEAIEMHSSYFHIAAWAIPAVKTI  
VILIMRLVDADELGLCYVGNQNLDAITGFVVAPLFTYLVIGTLFIAAGLVALFKIRSNL  
QKDGTKDKLERLMVKIGVFSVLYTVPATCVIACYFYEISNWALFRYSADDSNMAVEMLK  
IFMSLLVGITSGMWIWSAKTLHTWQKCSNRLVNSGKVKREKRGNGWVKPGKGETVV

>sp|P04406|G3P\_HUMAN Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH  
PE=1 SV=3

MGKVKVGNGFGRIGRLVTRAAFNSGKVDIVAINDPFIDLNYMVYMFQYDSTHGKFHGT  
KAENGLVINGNPITIFQERDPSKIKWGDAGAEYVVESTGVFTTMEKAGAHQGGAKRVI  
ISAPSADAPMFVMGVNHEKYDNSLKIISNASCTTNCLAPLAKVIHDNFGIVEGLMTTVHA  
ITATQKTVDGPSGKLWRDGRGALQNIIPASTGAAKAVGKVIPELNGKLTGMAFRVPTANV  
SVVDLTCRLEKPAKYDDIKKVVKQASEGPKGILGYTEHQVSSDFNSDTHSSTFDAGAG  
IALNDHFVKLISWYDNEFGYSNRVVDLMAHMASKE

>sp|Q96A11|G3ST3\_HUMAN Galactose-3-O-sulfotransferase 3 OS=Homo sapiens GN=GAL3ST3 PE=1  
SV=1

MPPIQLRLQQAATKMSRRKILLVLGCSTVSLLIHQGAQLSWYPKLFPLSCPPLRNSPPR  
PKHMTVAFLKTHKTAGTTVQNILFRFAERHNLTVALPHPSCEHQFCYPRNFSAHFVHPAT  
RPPHVLASHLRFDRALERLMPPSTVYVTILREPAAMFESLFSYNNQYCPAFRRVPNASL  
EAFLEAPEAYRAGEHFAMFAHNTLAYDLGGDNESSPRDDAAYLAGLIRQVEEVFSLVMI  
AEYFDESLLVLRLLAWDLDDVLYAKLNARAASSRLAAIPAALARAARTWNALDAGLYDH  
FNATFWRHVARAGRACVEREARELREARQRLLRRCFGDEPLLRPAAQIRTKQLQPWQPSR  
KVDIMGYDLPGGGAGPATEACKLAMPEVQYSNYLLRKQKRRGGARARPEPVLNPPPRP  
IRVLPRGPQGP

>sp|O95866|G6B\_HUMAN Protein G6b OS=Homo sapiens GN=G6B PE=1 SV=1

MAVFLQLPLLSRAQNGPGASLDGRPGDRVNLSCGGVSHPIRWVWAPSFPACKGLSKGR  
RPILWASSSGTPTVPPLQPFVGRRLSLDSGIRRELLLSAGDSGTFCKGRHEDESRTVL  
HVLGDRTYCKAPGPTHGVSYPQLLIPLLGAGLVGLGALGLVWWLHRRLLPPQPIRPLPRF  
APLVKTEPQRPVKEEEKIPGDLDDQEPSLLYADLDHLALSRRRLSTADPADASTIYAVV

V



>sp|P11413|G6PD\_HUMAN Glucose-6-phosphate 1-dehydrogenase OS=Homo sapiens GN=G6PD PE=1 SV=4

MAEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGL  
LPENTFIVGYARSRLTVADIRKQSEPFKATPEEKLKLEDDFARNASYVAGQYDDAASYQR  
LNSHMNALHLGSQANRLFYLALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPFGRDLQSS  
DRLSNHISSLFREDQIYRIDHYLGKEMVQNLMLVRFANRIFGPIWNRDNIACVILTFKEP  
FGTEGRGGYFDEFGIIRDVMQNHLQLMLCLVAMEKPASTNSDDVRDEKVKVLCISEVQA  
NNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVLYVENERWDGVPFILRCGK  
ALNERKAEVRLQFHDVAGDIFHQCKRNELVIRVQPNEAVYTKMMTKKPGMFFNPEESEL  
DLTYGNRYKNVKLPDAYERLILDVFCGSQMHFVRSDELREAWRIFTPLLHQIELEKPKPI  
PYIYGSRGPTAEDELMKRVGFQYEGTYKWNPHKL

>sp|O43826|G6PT1\_HUMAN Glucose-6-phosphate exchanger SLC37A4 OS=Homo sapiens GN=SLC37A4 PE=1 SV=1

MAAQGYGYRTVIFSAMFGGSLYYFNKTFVSFVMPSLVEEIPLDKDDLGFITSSQSAAY  
AISKFVSGVLSQMSARWLFSSGLLLVLNIFFAWSSTVPVFAALWFLNGLAQGLGWPP  
CGKVLRKWFEPSQFGTWWAILSTSMNLAGGLPILATILAQSYSWRSTLALSGALCVVVS  
FLCLLLIHNEPADVGLRNLDPMPESEGGKSLKEESTLQELLLSPYLWVLSTGYLVVFGVK  
TCCTDWGQFFLIQEKQSALVGSSYMSALEVGGLVGSIAAGYLSDRAMAKAGLSNYGNPR  
HGLLLFMMAGMTVSMYLFRTVTSDSPKLWILVLGAVFGFSSYGPIALFGVIANESAPPN  
LCGTSHAIVGLMANVGGFLAGLPFSTIAKHSWSTAFWVAEVICAASTAAFFLLRNIRTK  
MGRVSKKAE

>sp|Q8TED4|G6PT3\_HUMAN Glucose-6-phosphate exchanger SLC37A2 OS=Homo sapiens GN=SLC37A2 PE=2 SV=2

MRSSLAPGVWFFRAFSRDSWFRGLILLTFLIYACYHMSRKPIISIVKSRLHQNCSEQIKP  
INDTHSLNDTMWCWAPFDKDNKELLGGVDNAFLIAYAIGMFISGVFGERLPLRYYLSA  
GMLLSGLFTSLFGLGYFWNHIELWYFVVIQVCNGLVQTTGWPSVVTVCVGNWFGKGKRGFI  
MGIWNSHTSVGNILGSLIAGIWNQGWLGSFIVPGIITAVMGVITFLFLIEHPEDVDCAP  
PQHHGEPAENQDNPEDPGNSPCSIRESGLETVAKCSKGPCEEPAAISFFGALRIPGVVEF  
SLCLLFAKLVSYTFLYWLPLYIANVAHFSAKEAGDLSTLFDVGGIIGGIVAGLVSDYTNG  
RATTCCVMLILAAPMMFLYNYIGQDGIASSIVMLIICGGLVNGPYALITTAVSADLGTHK  
SLKGNAKALSTVTAIIDGTGSIGAALGPLLAGLISPTGWNNVFYMLISADVLACLLLCRL  
VYKEILAWKVSLSRGSGYKEI

>sp|Q99501|GA2L1\_HUMAN GAS2-like protein 1 OS=Homo sapiens GN=GAS2L1 PE=1 SV=2

MADPVAGIAGSAAKSVRPFSSSEAYVEAMKEDLAEWLNALYGLPLPGGGDGFLTGLATGT  
TLCQHANAVENTEAAARALAAARPARGVAFQAHSVVPGSFMARDNVATFIGWCRVELGVPEVL  
MFETEDLVLRKNEKSVVLCLEVARRGARLGLLAPRLVQFEQEIERELRAAPPAPNAPAA  
GEDTTTETAPAGTPARGPRMTPSDLRNLDLVREILGRCTCPDQFPMIKVSEGKYRVGDS  
SLLIFVRVLRSHVMVRVGGWDTLEHYLDKHDPCRCSSTAHRPPQPRVCTFSPQRVSPTT  
SPRPASVPVGSERRGSRPEMTPVSLRSTKEGPETPPRPRDQLPPHPRSRRYSGDSDSAS  
SAQSGPLGTRSDDTGTGPRRERPSRRLTTGTPASRRPPALRSQSRDRLDGRPRGAPGG  
RGAQLSVPSARRARSQSREEQAVLLVRRDRDGQHSWVPRGRSGSGRSTPQTTPRARSP  
AAPRLSRVSSPSPELGTTPASIFRTPLQLDPQQEQQLFRRLEEEFLANARALEAVASVTP  
TGPVPDPARAPDPPAPDSAYCSSSSSSSVLGGKCGQPGDSGRTANGLPGPRSQUALSS  
SSDEGSPCPGMMGGPLDAPGSPLACTEPSRTWARGRMDTQPDRKPSRIPTPRGPRRPSGPA

ELGTWHALHSVTPRAEPDSWM

>sp|Q13066|GAG2B\_HUMAN G antigen 2B/2C OS=Homo sapiens GN=GAGE2B PE=2 SV=1

MSWRGRSTYRPRRRYVEPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGED  
EGASAGQGPKPEAHSQEQQHPQTGCECEDGPDGQEMDPPNPPEEVKTPEEGEKQSSQC

>sp|Q13067|GAGE3\_HUMAN G antigen 3 OS=Homo sapiens GN=GAGE3 PE=1 SV=1

MNLSRGKSTYYWPRRRYVQPPEVIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEG  
EDEGASAGQGPKPEADSQEQQHPQTGCECEDGPDGQEMDPPNPPEEVKTPEEGEKQSSQC

>sp|Q13068|GAGE4\_HUMAN G antigen 4 OS=Homo sapiens GN=GAGE4 PE=1 SV=2

MSWRGRSTYYWPRRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGE  
DEGASAGQGPKPEADSQEQQHPQTGCECEDGPDGQEMDPPNPPEEVKTPEEGEGQSSQC

>sp|P01358|GAJU\_HUMAN Gastric juice peptide 1 OS=Homo sapiens PE=1 SV=1

LAAGKVEDSD

>sp|P87889|GAK10\_HUMAN Endogenous retrovirus group K member 10 Gag polyprotein OS=Homo sapiens GN=ERVK-10 PE=1 SV=4

MGQTKSKIISKYASYLSFIKILLKRGVVKVSTKNLIKLFQII EQFCPWFPEQGTSDLKDW  
KRIGKELKQAGRKGNIIPLTVNDWAI IKAALPEPFQTEEDSISVSDAPGSCSIDCNENTR  
KKSQKETESLHCEYVAEPVMAQSTQNVDYNQLQEVII PETLKLKLGKPELMGPPSESKPRG  
TSPLPAGQVLVRLQPQKQVKENKTQPVVAYQYWPLAELQYRPPPEQYGYPMPPAPQGR  
APYHQPPTRRLNPMAPPSRQGSSELHEI IDKSRKEGDTEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGNPSYMRLLDSIA YGHRLIPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQRNRNRAANPPVNI DADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSI ADEKAGKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCVNLKQNI TIQATTTGREPPDLCPRCKKGKH WASQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIQPFVPQGFQGGQPPLSQVFQGISQLPQYNNCPSP  
QAAVQQ

>sp|Q9HDB9|GAK5\_HUMAN Endogenous retrovirus group K member 5 Gag polyprotein OS=Homo sapiens GN=ERVK-5 PE=1 SV=3

MGQTKSKTKSKYASYLSFIKILLKRGVVRVSTKNLIKLFQII EQFCPWFPEQGTDLKDW  
KRIGEELKQAGRKGNIIPLTVNDWAI IKAALPEPFQTKEDSVSVSDAPGSCVIDCNEKTG  
RKSQKETESLHCEYVTEPVMAQSTQNVDYNQLQGVII PETLKLKLGKPELVGPSESKPRG  
PSPLPAGQVPVTLQPQTQVKENKTQPPVAYQYWPPAELQYLPPPEQYGYPMPPALQGR  
APYPQPPTVRLNPTASRSGGGTLHAVIDEARKQGDLEAWRFLVILQLVQAGEETQVGAP  
ARAETRCPEFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIA HGNRLTPYDWESLAKSSLSS  
SQYLQFKTWWIDGVQEQRKNQATKPTVNI DADQLLGTGPNWSTINQQSVMQNEAIEQVR  
AICLRAWGKIQDPGTAFFINSIRQGSKEPYPDFVARLQDAAQKSITDDNARKVIVELMAY  
ENANPECQSAIKPLKGVKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTLGGQVRT  
FGKKCYNCGQIGHLKRSCPVLNKQNI INQAITAKNKKPSGLCPKCGKGKH WANQCHSKFD  
KDGQPLSGNRKRGQPAPQQTGAFFVQLFVPQGFQGGQPLQKIPPLQGVSQLQQSNSCPA  
PQQAAPQ

>sp|P62685|GAK8\_HUMAN Endogenous retrovirus group K member 8 Gag polyprotein OS=Homo sapiens GN=ERVK-8 PE=1 SV=2

MGQTKSKIISKYASYLSFIKILLKRGVVKVSTKNLIKLFQII EQFCPWFPEQGTDLKDW  
KRIGKELKQAGRKGNIIPLTVNDWAI IKAALPEPFQTEEDSISVSDAPGSCSIDCNENTR

KKSQKETESLHCEYVAEPVMAQSTQNVQYNQLQEVIIYPETLKLEGKPELVGPSESKPRG  
TSPLPAGQVPVTLQPQKQVKENKTQPPVAYQYWPPAELQYRPPPEQSYGYPGMPPAPQGR  
EPYPQPPTRRLNPTAPPSRQGSSELHEIIDKSRKEGDTEAWQFPVTLPEMPPEGAGEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGNPSYMRLLDSIAHGRLIPYDWEILAKSSLS  
SQFLQFKTWWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCPVLNKNITIQATTGREPPDLCPRCKKGKHWSQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIIQPFVPPQGFQDNNPHCPKCFRE

>sp|Q8NCL4|GALT6\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 6 OS=Homo sapiens  
GN=GALT6 PE=2 SV=2

MRLRRRRHMLRLAMVGCAFLFLFLLHRDVSSREEATEKPWLKSLVSRKDHVLDLML  
MNNLRDSMPKLQIRAPEAQQTILFSINQSCLPGFYTPAELKPFWERPPQDPNAPGADGKAF  
QKSKWTPLETQEKEEGYKKHCFNAFASDRISLQSLGPDTRPPECVDQKFRRCPLATTS  
VIVFHNEAWSTLLRTVYSVLHTTPAILLKEIILVDDASTEHLKEKLEQYVVKQLQVVRV  
VRQEERKGLITARLLGASVAQAEVLTFLDAHCECFHGWLEPLLARIAEDKTVVVSPDIVT  
IDLNTFEFAKPVQGRVHSGNFQDWSLTFGWETLPPHEKQRRKDETYPIKSPTFAGGLFS  
ISKSYFEHIGTYDNQMEIWGGENVEMSFVWQCGGQLEIIPCSVVGHVFRTKSPHTFPKG  
TSVIARNQVRLAEVWMSYKKIFYRRNLQAAKMAQEKSGDISERLQLREQLHCHNFSWY  
LHNVPPEMFVPDLTPTFYGAIKNLGTNQCLDVGENNRGGKPLIMYSCHGLGGNQYFEYTT  
QRDLRHNIQKQLCHVSKGALGLGSGHFTGKNSQVPKDEEWELAQDQLIRNSGSGTCLTS  
QDKKPAMAPCNPSDPHQLWLFV

>sp|Q9HCQ5|GALT9\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 9 OS=Homo sapiens  
GN=GALT9 PE=2 SV=3

MAVARKIRTLLTVNIIIVFVGIVLFSVYCRLQGRSQELVRIVSGDRRVRSRHAKVGTGDR  
EAILQRLDHLEEVVYNQLNGLAKPIGLVEGPGGLGQGLAATLRDDGQEAEGKYEEYGYN  
AQLSDRISLDRSIDPYRPRKCRQMSYAQDLQVSVVFIIVNEALSVILRSVHSVNNHTPS  
QLLKEVILVDDNSDNVELKFNLDQYVKNRYPGLVKIVRNSRREGLIRARLQGWKAATAPV  
VGFFDAHVEFNTGWAEPALSRIREDRRRIVLPAIDNIKYSTFEVQYANAAHGYNWGLRC  
MYIIPPQDWLDRGDESAPIRTPAMIGCSFVVDREYFGDIGLLDPGMEVYGGENVELGMRV  
WQCGGSMEVLPCSRVAHIERTRKPYNNIDYIAKRNALRAAEVWMDDFKSHVYMAWNIPM  
SNPGVDFGDVSRERLALRQLKCRSFKWYLENVYPEMRVYNNLTLYGEVRNSKASAYCLDQ  
GAEDGDRAILYPCHGMSSQLVRYADGLLQLGPLGSTAFLPDSKCLVDDGTGRMPTLKKC  
EDVARPTQRLWDFQTQSGPIVSRATGRCLEVEMSKDANFGLRLVVQRCGQKWMIRNWKH  
ARH

>sp|Q14697|GANAB\_HUMAN Neutral alpha-glucosidase AB OS=Homo sapiens GN=GANAB PE=1 SV=3

MAVAAVAARRRRSWASLVLAFLGVCLGITLAVDRSNFKTCEESSFCKRQRSIRPGLSPY  
RALDLSLQLGPDSLTVHLIHEVTKVLLVLELQGLQKNMTRFRIDELEPRRPRYRVPDVLV  
ADPPIARLSVSGRDENSVELTMAEGPYKIIILTARPFRLDLEDRLLSVNARGLLEFEH  
QRAPRVSQGSKDPAEGDGAQPEETPRDGDKEETQGAEKDEPGAWEEFTKTHSDSKPYG  
PMSVGLDFSLPGMEHVYGIPEHADNLRKLVTEGGEPYRLYNLDVVFQYELYNPMALYGSVP  
VLLAHNPHRDLGIFWLNAETWVDISSNTAGKTLFGKMMDYLQGSGETPQTDVRWMSETG  
IIDVFLLLGPSISDVFRQYASLTGTQALPPLFSLGYHQSRRWNYRDEADVLEVDQGFDDHN  
LPCDVIWLDIEHADGKRYFTWDPSRFPQPRTMLERLASKRRKLVAIVDPHIKVDSGYRVH

EELRNGLYVKTRDGS DYEGWCWPGSAGYPDFTNPTMRAWWANMFSYDNYEGSAPNLFVW  
NDMNPSVFN GPEVTMLKDAQHYGGWEHRDVHNIYGLYVHMATADGLRQSGGMERPFVL  
ARAFFAGSQRFGAVWTGDN TAEWDHLKISIPMCLSLGLVGLSFCGADVGGFFKNPEPELL  
VRWYQMGAYQPF FRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWYTLTYQHR  
EGIPVMRPLWVQYPQDV TTFNIDDQYLLGDALLVHPVSDSGAHGVQVYLPQGGEVWYDIQ  
SYQKHGPGQTL YLPVTLSSIPVFQRRGTIVPRWMRVRSSECMKDDPITL FVALSPQGT  
QGELFLDDGHTFNYQTRQEFLRRFSFSGNTLVSSADPEGHFETPIWIERVVIIGAGKP  
AAVVLQTKGSPE SRLSFQHDPETSVLVLRKPGINVASDWSIHLR

>sp|P43694|GATA4\_HUMAN Transcription factor GATA-4 OS=Homo sapiens GN=GATA4 PE=1 SV=2

MYQSLAMAANH GPPPGAYEAGGPGAFMHGAGAASSPVYVPTPRVPSSVLGLSYLQGGGAG  
SASGGASGGSSGGAASGAGPGTQQGSPGWSQAGADGAAYTPPVSPRFSFPGTTGSLAAA  
AAAAAAREAAAYSSGGAAGAGLAGREQYGRAGFAGSYSSPYPAYMADV GASWAAAAAAS  
AGPFDSPVLHSLPGRANPAARHPN LDMFDDFSEGRECVCNGAMSTPLWRRDGTGHYLCNA  
CGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTLWRRNAEGEPVCNACGLYMK  
LHGVRPLAMRKEGIQTRKRKPKNLNKS KTPAAPSGSESLPPASGASSNSSNATTSSSEE  
MRPIKTEPGLSSH YGHSSSVSQTFSVSAMS GHGPSIHPVLSALKLSPQGYASPVSPSPQT  
SSKQDSWNSLV LADSHGDIITA

>sp|Q9P2W3|GBG13\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-13 OS=Homo sapiens GN=GNG13 PE=3 SV=1

MEEWDVPQM KKEVESLKYQLAFQREMA SKTIPELLKWIEDGIPKDPFLNPDLMKNNPWVE  
KGKCTIL

>sp|P59768|GBG2\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2 OS=Homo sapiens GN=GNG2 PE=1 SV=2

MASNNTASIAQARKLVEQLKMEANIDRIKVS KAAADLMAYCEAHAKEDPLLTPVPASENP  
FREKKFFCAIL

>sp|P63215|GBG3\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-3 OS=Homo sapiens GN=GNG3 PE=1 SV=1

MKGETPVNSTMSIGQARKMVEQLKIEASLCRIKVS KAAADLMTYCDAHACEDPLITPVPT  
SENPFREKKFFCALL

>sp|Q9UK08|GBG8\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-8 OS=Homo sapiens GN=GNG8 PE=1 SV=1

MSNNMAKIAEARKTVEQLKLEVNIDRMKVS QAAAELLAFCE THAKDDPLVTPVPAENPF  
RDKRLFCVLL

>sp|Q96PP9|GBP4\_HUMAN Guanylate-binding protein 4 OS=Homo sapiens GN=GBP4 PE=2 SV=2

MGERTLHAAVPTPGYPESESIMMAPICLVENQEEQLTVNSKALEILDKISQPVVVVAIVG  
LYRTGKSYLMNRLAGKRNGFPLGSTVQSETKGIWMWCVPHLSKPNHTLVLLDTEGLGDVE  
KSNPKND SWIFALAVLLSSSFVNSVSTINHQALEQLHYVTELAELIRAKSCRPDEAED  
SSEFASFFPDFIWTVRDFTLELKL DGNPITEDEYLENALKLIPGKNPKIQNSNMPRECIR  
HFFRKRKCFVFD RPTNDKQYLNHMDDEVPEENLERHFLMQSDNFC SYIFTHAKTKTLREGI  
IVTGKRLGTLVV TYVDAINS GAVPCLEN AVTALAQLENPAAVQRAADHYSQQMAQQLRLP  
TDTLQELLDVHAACEREAI AVFMEHSFKDENHEFQKKLVDTIEKKKGDFVLQNEEASAKY  
CQAE LKRLSEHLTESILRGIFSVPGGHNLYLEEKKQVEWDYKLVPRKGVKANEVLQNFLQ  
SQVVVEESILQSDKALTAGEKAIAAERAMKEAAEKEQELLREKQKEQQQMMEAQERSFQE  
YMAQMEKKLEERENLLREHERLLKHKLVQE EMLKEEFQKKSEQLNKEINQLKEK IEST

KNEQLRLLKILDMASNIMIVTLPGASKLLGVGTKYLGSRI

>sp|Q96PP8|GBP5\_HUMAN Guanylate-binding protein 5 OS=Homo sapiens GN=GBP5 PE=1 SV=1

MALEIHMSDPMCLIEFNELQKVNQEALEILSAITQPVVVVAIVGLYRTGKSYLMNKLAK  
KNKGFSVASTVQSHTKGIWIWCVPHPNWPNHTLVLLDTEGLGDVEKADNKNDIQIFALAL  
LLSSTFVYNTVKNIDQGAIDLLHNVTETDLLKARNSPDLDRVEDPADSASFFPDLVWTL  
RDFCLGLEIDGQLVTPDEYLENSLRPKQGSQQRVQNFNLPRLCIQKFFPKKKCFIFDLPA  
HKKLAQLETLDPDELEPEFVQVTEFCSYIFSHSMTKTLPGGIMVNGSRLKNLVLTYYN  
AISSGDLPCIENAVLALAQRENSAAVQKAI AHYDQQMGQKVQLPMETLQELLDLHRTSER  
EAIEVFMKNSFKDQVDSFQKELETLLDAKQNDICKRNLEASSDYCSALLKIDIFGPLEEAV  
KQGIYSKPGGHNLFQKTEELKAKYYREPRKGIQAEVLQKYLKSKESVSHAILQTDQAL  
TETEKKKKEAQVKAEEKAEQAQLAAIQRQNEQMMQERERLHQEQVRQMEIAKQNWLAEEQ  
QKMQEQQMQEQAQLSTTFQAQNRSLSELQHAQRTVNNDPCVLL

>sp|P34903|GBRA3\_HUMAN Gamma-aminobutyric acid receptor subunit alpha-3 OS=Homo sapiens  
GN=GABRA3 PE=1 SV=1

MIITQTSCHYMTSLGILFLINILPGTTGQGESRRQEPGDFVKQDIGGLSPKHAPDIPDDS  
TDNITIFTRILDRLLDGYDNRLRPGLGDAVTEVKTDIYVTSFGPVSDTMEYTDVFFRQ  
TWHDERLKFDPGPKILPLNLLASKIWTPTFFHNGKKSVAHNMTTPNKLLRLVDNGTLL  
YTMRLTIHAECPMHLEDFPMDVHACPLKFGSYAYTTAEVVYSWTLGKNKSVEVAQDGSRL  
NQYDLLGHVVGTEIIRSSTGEYVVMTHFHLKRKIGYFVIQTYLPCIMTVILSQVSFWLN  
RESVPARTVFGVTTVLTMTTSLISARNSLPKVAYATAMDWFIACVAFVFSALIEFATVN  
YFTKRSAWEGKKVPEALEMKKTPAAPAKKTSTTFNIVGTTYPINLAKDTEFSTISKGA  
APSASSTPTIIASPKATYVQDSPTETKTYSVSKVDKISRIFPVLFAIFNLVYWATYYN  
RESAIKGMIRKQ

>sp|P31644|GBRA5\_HUMAN Gamma-aminobutyric acid receptor subunit alpha-5 OS=Homo sapiens  
GN=GABRA5 PE=1 SV=1

MDNGMFGSGFIMIKNLLFCISMNLSSHFGFSQMPTSSVKDETNDNITIFTRILDGLLDGY  
DNRLRPGLGERITQVRTDIYVTSFGPVSDTEMEYTDVFFRQSWKDERLRFKGPMLPL  
NLLASKIWTPTFFHNGKKSIAHNMTTPNKLLRLEDDGTLLYTMRLTISAECPMQLEDF  
PMDAHACPLKFGSYAYPNSEVVVWVTNGSTKSVVAEDGSRLNQYHLMGQTVGTENISTS  
TGEYTIMTAHFHLKRKIGYFVIQTYLPCIMTVILSQVSFWLNRESVPARTVFGVTTVLT  
MTTSLISARNSLPKVAYATAMDWFIACVAFVFSALIEFATVNYFTKRGWAWDGKALEAA  
KIKKKREVILNKSTNAFTTGKMSHPPNIPKEQTPAGTSNTTSVSVKPSEEKTESKKTYN  
SISKIDKMSRIVFPVLFGTNLYWATYLNREPVIKGAASPK

>sp|Q11130|FUT7\_HUMAN Alpha-(1,3)-fucosyltransferase 7 OS=Homo sapiens GN=FUT7 PE=1 SV=1

MNAGHGPTRLRGLGVLGVALAALWLLWLLGSAPRGTPAPQPTITILVHHWPFQDQ  
PELPSDCTRYGIARCHLSANRSLASADAVVFHHRELQTRRSHLPLAQRPRGQPWWAS  
MESPSHTHGLSHLRGIFNWVLSYRRSDIFVPYGRLEPHWGSPPLAKSRVAWVVSNF  
QERQLRARLYRLAPHLRVDVFGGRNGRPLCASCLVPTVAQYRFYLSFENSQHRDYITEK  
FWRNALVAGTVPVVLGPPTATYEAFFPADAFVHVDGFSARELAFLTGMNESRYQRFFA  
WRDLRVRLFTDWRERFCAICDRYPHLPRSQVYEDLEGWFQA

>sp|Q9BYC5|FUT8\_HUMAN Alpha-(1,6)-fucosyltransferase OS=Homo sapiens GN=FUT8 PE=1 SV=2

MRPWTGSRWIMLILFAWGTLFYIGGHLVRNDHPDHSSRELSKILAKLERLKKQNE  
RRMAESLRIPEGPIDQGAIGRVRVLEEQLVKAKEQIENYKKQTRNGLGKDHEILRRRIE  
NGAKELWFFLQSELKKLNLEGNELQRHADEFLLDLGHHERSIMTDLYLSQTDGAGDWR

EKEAKDLTELVQRRITYLQNPKDCSKAKKLCVNINKGCGYGCQLHHVVYCFMIAYGTQRT  
LILESQNWRYATGGWETVFRPVSETCTDRSGISTGHWSGEVKDKNVQVVELPIVDSLHPR  
PPYLPLAVPEDLADRLVRVHGDAVWVWSQFVKYLIRPQPWLEKEIEEATKKLGFKHPVI  
GVHVRRTDKVGTEAAFPHPIEEYMHVEEHFQLLARRMQVDKKRVYLATDDPSLLKEATK  
YPNYEFISDNSISWSAGLHNRYTENSLRGVILDIHFLSQADFLVCTFSSQVCRVAYEIMQ  
TLHPDASANFHSLLDDIYYFGGQNAHNQIAIYAHQPRTADEIPMEPGDIIGVAGNHWGYS  
KGVNRKLGRTGLPSYKVKREKIETVKYPTYPEAEK

>sp|Q6VB84|FX4L3\_HUMAN Forkhead box protein D4-like 3 OS=Homo sapiens GN=FOXD4L3 PE=2  
SV=2

MNLPRERLRSTPQRSRLRSDGEDGKIDVLGEEDEDEVEDEEEAASQQFLEQSLQPGLQ  
VARWGGVALPREHIEGGGGSPDSEFGTKFRAPPRSAASEDARQPAKPPYSYIALITMA  
ILQNPCHKRLTLSGICAFISGRFPYYRRKFPWQNSIRHNLSLNCDFVKIPREPGHPGKGN  
YWSLDPASQDMFDNGSFLRRRKRFRHQLTPGAHLPHFPPLPAHAALHNPRPGPLLGA  
APPQVPVGAYPNTAPGRRPYALLPHPLRYLLLSAPVYAGAPKKAEGAALATPAPFPCCS  
PHLVLSLGRRARVWRRHREADASLSALRVLCCKGSGERVQGLRRICPRPRGATATCSDHQ  
ACCIPRPLPLCCKCPPPPLLGQFCNSSSIRRRAPTAAALPPRARCWAGTCRPRRPC

>sp|Q3SYB3|FX4L6\_HUMAN Forkhead box protein D4-like 6 OS=Homo sapiens GN=FOXD4L6 PE=1  
SV=2

MNLPRERLRSTPQRSRLRSDGEDGKIDVLGEEDEDEVEDEEEAASQQFLEQSLQPGLQ  
VARWGGVALPREHIEGGGGSPDSEFGTKFRAPPRSAASEDARQPAKPPYSYIALITMA  
ILQNPCHKRLTLSGICAFISGRFPYYRRKFPWQNSIRHNLSLNCDFVKIPREPGHPGKGN  
YWSLDPASQDMFDNGSFLRRRKRFRHQLTPGAHLPHFPPLPAHAALHNPHPGPLLGA  
APPQVPVGAYPNTAPGRRPYALLPHPLRYLLLSAPVYAGAPKKAEGAALATPAPFPCCS  
PHLVLSLGRRARVWRRHREADASLSALRVLCCKGSGERVQGLRRVCPRPRGATATCSDHQ  
ACCIPRPLPLCCKCPPPPLLGQFCNSSSIRRRAPTAAALPPRARCWAGTCRPRRPC

>sp|Q9UF56|FXL17\_HUMAN F-box/LRR-repeat protein 17 OS=Homo sapiens GN=FBXL17 PE=2 SV=3

MGHLLSKEPRNRPSQKRPRCCSWCRRRRPLRLPRRTPAKVPPQPAAPRSRDCFFRGPCM  
LCFIVHSPGAPAPAGPEEPPSPPPRDGAYAAASSQHLARRYAALAAEDCAAAARRFL  
LSSAAAAAASASSPASCCKELGLAAAAWEQQGRSLFLASLGPVRFGLGPPAAVQLFR  
GPTPSAELPTPEMVCKRKAGVPACTPCKQPRCGGGCGGGGGGGGGGAGGGASPP  
RPPDAGCCQAPEPPQPLCPPSSPTSEGAPTEAGGDAVRAGGTAPLSAQQQHECGDADC  
RESPENPCDCHREPPETPDINQLPPSILLKIFSNLSLDERCLSASLVCKYWRDLCLDFQ  
FWKQLDLSSRQQVTDELLEKIASRSQNIIEINISDCRMSDNGVCVLAFCPCGLLRYTAY  
RCKQLSDTSIIAVASHCPLLQKVHVGNQDKLTDEGLKQLGSKRELKDIHFQGCYKISDE  
GMIVIAKGCLKLQRIYMQENKLVDQSVKAFAEHCPQLQYVGMGCVTSKGVIHCLKLR  
NLSSDLRHITELDNETVMEIVKRCKNLSSLNLCLNWIINDRCVEVIAKEGQNLKELYLV  
SCKITDYALIAIGRYSMTIETVDVGWCKEITDQGATLIAQSSKSLRYLGLMRCDKVNVT  
VEQLVQQYPHITFSTVLQDCKRTLERAYQMGWTPNMSAASS

>sp|Q6P050|FXL22\_HUMAN F-box and leucine-rich protein 22 OS=Homo sapiens GN=FBXL22 PE=1  
SV=2

MWPLLTMHITQLNRECLLHLSFLDKDSRKSLARTCSQLHDVFDPALWSLLHFRSLTEL  
QKDNFLLGPALRSLICWHSSRVQVCSIEDWLKSAFQRSICSRHESLVNDFLLRVCDRLS  
AVRSPRRREAPAPSSGTPIAVGPKSPRWGGPDHSEFADLRSGVTGAAAAARRGLGSLRAE  
RPSETPPAPGVSWGPPPPGAPVVISVKQEEGKQGRTGRRSHRAAPPCGFARTRVCPPTFP

GADAFPQ

>sp|Q14802|FXVD3\_HUMAN FXVD domain-containing ion transport regulator 3 OS=Homo sapiens  
GN=FXVD3 PE=2 SV=1

MQKVTGLLLVFLAGFPVLDANDLEDKNSPFYYDWHSLQVGGGLICAGVLCAMGIIIVMSAK  
CKCKFGQKSGHHPGETPPLITPGSAQS

>sp|P58549|FXVD7\_HUMAN FXVD domain-containing ion transport regulator 7 OS=Homo sapiens  
GN=FXVD7 PE=1 SV=1

MATPTQTPTKAPEEPDPFYDYNTVQTVGMTLATILFLLGILIVISKVKCRKADSRSES  
PTCKSCKSELPSSAPGGGGV

>sp|Q9BQS8|FYC01\_HUMAN FYVE and coiled-coil domain-containing protein 1 OS=Homo sapiens  
GN=FYC01 PE=1 SV=3

MASTNAESQLQRIIRDLQDAVTELSKEFQEAGEPITDDSTLHKFSYKLEYLLQFDQKEK  
ATLLGNKKDYWDYFCACLAQKVGANDGIRFVKSISELRTSLGKGRAFIYSLVHQRLADT  
LQQCFMNTKVTSDWYYARSPFLQPKLSSDIVGQLYELTEVQFDLASRGFDLDAWPTFAR  
RTLTTGSSAYLWKPPSRSSSMSSLVSSYLQTQEMVSNFDLNSPLNNEALEGFDEMRLELD  
QLEVREKQLRERMQQLDRENQELRAAVSQQGEQLQTERERGRATAEDNVRLTCLVAELQK  
QWEVTQATQNTVKELQTCLQGLELGAAEKEEDYHTALRRLESMLQPLAQELEATRDSLKD  
KNQHLASFPGWLAMAQQKADTASDTKGRQEPISDAAQEMQELGEKLQALERERTKVEEV  
NRQQSAQLEQLVKELQLKEDARASLERLVKEMAPLQEELSGKGQEQADQLWRRLQELLAHT  
SSWEEELAE LRREKKQQQEEKELLEQEVRSLTRQLQFLETQLAQVSQHVSDEEQKKQLI  
QDKDHLSSQQVGMRLERAGPPGPELPVAGEKNEALVPVNSSLQEAQWKPEEQRGLQEAQL  
DDTKVQEGSQEEELRQANRELEKELQNVVGRNQLLEGKLQALQADYQALQQRESAIIQGS  
ASLEAEQASIRHLGDQMEASLLAVRKAKEAMKAQMAEKEAILQSKEGECQQLREEVEQCQ  
QLAEARHRELRALESQCQQQTQLIEVLTAEGGQGVGPPTDNEARELAAQLALSQAQLEV  
HQGEVQRLQAQVVDLQAKMRAALDDQDKVQSLSMAEAVLREHKTLLVQQLKEQNEALNRA  
HVQELLQCSEREGALQEERAEQAQREEELRALQEELSQAACSSEEAQLEHAELQEQLEHR  
ANTDTAELGIQVCALTVEKERVEEALACAVQELQDAKEAASREREGLERQVAGLQKEKES  
LQEKLKAQAAAGSLPGLQAQLAQAEQRAQSLQEAHQELNLTQFQLSAEIMDYQSRLKN  
AGEECKSLRGQLEEQRQLQAEEAVEKLKATQADMGEKLSCTSNHLAECQAAMLRKDKE  
GAALREDLERTQKELEKATTKIQEYYNKLQCEVTNRERNDQKMLADLDDLNRKKYLEER  
LIELLRDKDALWQKSDALEFQKLSAEERWLGDTANHCLDCKREFSWVRHHCRICGR  
IFCYCCNNYVLSKHGGKKERCCACFQKLSEGPSPDSSGSGTSQGEPSPALSPASPGP  
QATGGQGANTDYRPPDDAVFDIITDEELCQIQESGSSLPETPTETDSDLPNAAEQDTTST  
SLTPEDTEDMPVGQDSEICLLKSGELMIKVPLTVDEIASFGEGRSRELFVRSSTYSLIPIT  
VAEAGLTISWVFSSDPKISFSVVFQEAEDTPLDQCKVLIPTRCNHSHKENIQGQLKVRT  
PGIYMLIFDNTFSRFVSKKVFIHLTVDRPVIYDGSDFL

>sp|P06241|FYN\_HUMAN Tyrosine-protein kinase Fyn OS=Homo sapiens GN=FYN PE=1 SV=3

MGCVQCKDKEATKLTEERDGSLSQSSGYRYGTDPTPQHYPSTGVTIPNYYNFAAGGQG  
LTVFGGVNSSHTGTLRTRGGTGTVLFVALYDYEARTEDDLSFHKGEKFQILNSSEGDWW  
EARSLLTGETGYIPSNYVAPVDSIQAEWYFGKLGRKDAERQLLSFGNPRGTFLIRESET  
TKGAYSLSIRDWDDMKGDHVKHYKIRKLDNGGYIITTRAQFETLQQLVQHYSERAAGLCC  
RLVVPCHKGMPLTDLVSKTKDVWEIPRESLQLIKRLGNGQFGEVWMTWNGNTKVAIKT  
LKPGTMSPEFLQEAQIMKKLKHDKLVQLYAVVSEPIYIVTEYMNKGSLLDFLKDGEGR  
ALKLPNLVDMAAQAAGMAYIERMNYIHRDLRSANILVGNGLICKIADFGLARLIEDNEY

TARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELVTGRVPYPGMNNREVLEQVE  
RGYRMPCPQDCPISLHELMHCWKKDPEERPTFEYLQSFLEDYFTATEPQYQPGENL

>sp|060353|FZD6\_HUMAN Frizzled-6 OS=Homo sapiens GN=FZD6 PE=1 SV=2

MEMFTFLLTCIFLPLLRGHSFLTCEPITVPRCMKAYNMTFFPNLMGHYDQSIAAVEMEH  
FLPLANLECSNIEFLCKAFVPTCIEQIHVVPPCRKLCEKVYSDCKKLIDTFGIRWPEE  
LECDRLQYCDETVPVTFDPHTEFLGPQKKTEQVQRDIGFWCPRHLKTSGGQGYKFLGIDQ  
CAPPCPNMYFKSDELEFAKSFIGHTVSIFCLCATLFTFLTLIDVRRFRYPERPPIIYYSVC  
YSIVSLMYFIGFLLDSTACNKADEKLELGDTVVLGSQNKACTVLFMLLYFFTMAGTVWW  
VILTITWFLAAGRKWSCEAIEQKAVWFHAVAWGTPGFLTVMLLAMNKVEGDNISGVCFVG  
LYDLASRYFVLLPLCLCVFVGLSLLLAGIISLNHVRQVIQHDGRNQEKLKKFMIRIGVF  
SGLYLPLVTLGCVYVEQVNRTWEITWVSDHCRQYHIPCPYQAKAKARPELALFMIKY  
LMTLIVGISAVFWGSKKTCTEWAGFFKRNKRKDPISERRVLQESCEFFLKHNSKVHKH  
KKHYKPSSHKLKVISKSMGTSTGATANHGTSAVAITSHDYLGQETLTEIQTSPETSMREV  
KADGASTPRLREQDCGEPASPAASISRLSGEQVDGKGQAGSVSESARSEGRISPKSDITD  
TGLAQSNNLQVPSSSEPSSLKGSTSLLVHPVSGVRKEQGGGCHSDT

>sp|Q8WWW8|GAB3\_HUMAN GRB2-associated-binding protein 3 OS=Homo sapiens GN=GAB3 PE=1 SV=1

MSAGDAVCTGWLKSPPERKLQRYAWKRWFVLRRGRMSGNPDVLEYRKNKHSSKPIRVI  
DLSECAVWKHVGPSFVRKEFQNNFVFIKTTSTRFYLVAKTEQEMQVWHSISQVCNLGH  
LEDGADSMESLSYTPSSLQPSSASSLLTAHAASSSLPRDDPNTNAVATEETRSESELLFL  
PDYLVLSNCETGRLHHTSLPTRCDWSNSDRSLEQASFDDVFDCLQPLPSSHLVHPSCH  
GSGAQEVPSSRPQAALIWSREINGPPRDHLSSSPLESSLSSTIQVDKNQGS LPGAKEL  
DIMSNTPPPRPPKPSHLSERRQEEWSTHSGSKPECTLVPRRISLSGLDNMRTWKADVEG  
QSLRHRDKRLSLNLPFRFSMPYPTASASIEDSYVPMSPQAGASGLGPHCSPDDYIPMNSG  
SISSPLPELPANLEPPPVRNLDLPQRKSRPPPLDLRNLIIREHASLTRTRTVPCSRTSF  
LSPERNGIN SARFFANPVSREDEESYIEMEEHRTASSLSSGALTWTKKFSLDYLALDFNS  
ASPAPMQQKLLLSEEQRVDYVQVDEQKTQALQSTKQEWTDERQSKV

>sp|Q06547|GABP1\_HUMAN GA-binding protein subunit beta-1 OS=Homo sapiens GN=GABP1 PE=1  
SV=2

MSLVDLGKKLLEAARAGQDDEVIRILMANGAPFTTDWLGTSPHLHAAQYGHYSTTEVLLRA  
GVSRDARTKVDRTPLHMAASEGHASIVEVLLKHGADVNAKMLKMTALHWATEHNEHVEV  
ELLIKYGADVHTQSKFCKTAFDISIDNGNEDLAEILQIAMQNQINTNPESPDTVTIHAAT  
PQFIIGPGGVNLTGLVSSSENSKATDETGVS AVQFGNSSTSVLATLAALAEASAPLSNS  
SETPVVATEEVVTAESVDGAIQVQVSSGGQVITIVTDGIQLGNLHSIPTSGIGQPIIVT  
MPDGGQVLTVPATDIAEETVISEPPAKRQCIEIENRVESAEIEEREALQKQLDEANRE  
AQKYRQQLLKKEQAEAYRQKLEAMTRLQTNKEAV

>sp|Q06546|GABPA\_HUMAN GA-binding protein alpha chain OS=Homo sapiens GN=GABPA PE=1 SV=1

MTKREAEEIEIEIDGTEKAECTEESIVEQTYAPAECVSQAIDINEPIGNLKKLLEPRLQ  
CSLDAHEICLQDIQLDPERSLFDQGVKTDGTVQLSVQVISYQGIEPKLNILEIVKPADTV  
EVVIDPDAAHAESEAHLEVEAQVITLDGTXHITTISDETSEQVTRWAAALEGYRKEQERL  
GIPYDPIQWSTDQVLHWVWVMKEFSMTDIDLTTLNISGRELCSLNQEDFFQVRVPRGEIL  
WSHLELLRKYVLASQEQMNEIVTIDQPVQIIPASVQSATPTTIKVINSSAKAAKVQRAP  
RISGEDRSSPGNRTGNNGIQLWQFLELLTDKDARDCISWVGDEGEFKNQPELVAQKW  
GQRKNKPTMNYEKLRLALRYYYDGMICKVQGKRFVYKFVCDLKTIGYSAAELNRLVTE  
CEQKKLAKMQLHGIAQPVTAVALATASLQTEKDN



>sp|Q7Z7M9|GALT5\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 5 OS=Homo sapiens  
GN=GALNT5 PE=1 SV=1

MNRIRKFFRSGRVLAFIFVASVIWLLFDMAALRLSFSEINTRVIKEDIVRRERIGFRVQ  
PDQGKIFYSSIKEMKPLRGHGKGAWGKENVRKTEESVLKVEVDLDQTQRRKMQNALGR  
GKVVPLWHPAHLQTLPTPNKQKTDGRGTKPEASSHQGTPKQTTAAGAPKTSFIAAKGTQ  
VVKISVHMGRVSLKQEPKSHSPSSDTSKLAAERDLNVTISLSTDRPKQRSQAVANERAH  
PASTAVPKSGEAMALNKTQTSKEVNANKHKANTSLPFPKFTVNSNRLRKQSINETPLGS  
LSKDDGARGAHGKKNFSESHLVIIITKEEQKADPKEVSNSKTKTIFPKVLGKSQSKHIS  
RNRSEMSSSSLAPHRVPLSQTNHALTGLEPAKINITAKAPSTEYNQSHIKALLPEDSGT  
HQVLRIDVTLSPRDPKAPGQFGRPVVPHGKEKEAERRWKEGNFVYLSDLIPVDRAIED  
TRPAGCAEQVLHNNLPPTTSVIMCFVDEVWSTLLRSVHSVINRSPPHLIKEILLVDDFSTK  
DYLKDNLDKYSQFPKVRILRLKERHGLIRARLAGAQNATGDVLTFLDSHVECNGWLEP  
LLERVYLSRKKVACPVIEVINDKDMSYMTVDNFQRGIFVWPMNFGWRTIPPDVIAKNRIK  
ETDTIRCPVMAGGLFSIDKSYFFELGTYPDGLDVWGGENMELSFKVWMCGEIEIIPCSR  
VGHIFRNDNPYSFPKDRMKTVERNLRVAEVLDEYKELFYGHGDHLIDQGLDVGNLTQQ  
RELKKLKCKSFKWYLENVFPDLRAPIVRASGVLINVALGKCISIENTTVILEDGDSKE  
LQQFNVTWRLIKCGEWCIAPIPDKGAVRLHPCDNRNKGKWLHKSTS VFHPELVNHIVF  
ENNQQLLCLEGNFSQKILKVAACDPVKPYQKWKFEKYEEA

>sp|Q8TET4|GANC\_HUMAN Neutral alpha-glucosidase C OS=Homo sapiens GN=GANC PE=2 SV=3

MEAAVKEEISLEDEAVDKNIFRDCNKIAFYRRQKQWLSKKSTYQALLDSVTTDEDSTRFQ  
IINEASKVPLLAIEIYGIEGNIFRLKINEETPLKPRFEVPDVLTSKPSTVRLISCSGDTGS  
LILADGKGDLKCHITANPFKVDLVSEEEVVISINSLGQLYFEHLQILHKQRAAKENEEET  
SVDTSQENQEDLGLWEEKFGKFVDIKANGPSSIGLDFSLHGFEHLYGIPQHAESHQLKNT  
GDGDAYRLYNLDVYGYQIYDKMGIYGSVPYLLAHKLGRITIGIFWLNASETLVEINTEPAV  
EYTLTQMGPVAAKQKVRSRTHVHWMSESGIIDVFLLTGTPSDVFKQYSHLTGTQAMPPL  
FSLGYHQCRWNYEDEQDVKAVDAGFDEHDIPYDAMWLDIEHTEGKRYFTWDKNRFPNPKR  
MQELLRSKKRKLVISDPHIKIDPDYSVYVAKAKDQGFFVKNQEGEDFEGVCWGLSSYLD  
FTNPKVREWYSSLFAPVYQGSTDILFLWDMNEPSVFRGPEQTMQKNAIHHGNWEHREL  
HNIYGFYHQMATAEGLIKRSGKERPFVLTRSFFAGSQYGA VWTGDNTAEWSNLKISIP  
MLLTLSITGISFCGADIGGFIGNPETELLVRWYQAGAYQPFFRGHATMNTKRREPWLFG  
EHTRLIREAIRERYGLLPYWYSLFYHAHVASQPMRPLWVEFPDELKTFDMEDEYMLGSA  
LLVHPVTEPKATTVDVFLPGSNEVWYDYKTFAHWEGGCTVKIPVALDTIPVFQRGGSVIP  
IKTTVGKSTGWMTESSYGLRVALSTKGSSVGELYLDDGHSFYQLHQKQFLHRKFSFCSSV  
LINSFADQRGHYPKSCVVEKILVLGFRKEPSSVTTHSSDGKDQPVAFITYCAKTSILSLEK  
LSLNIATDWEVRII

>sp|O60318|GANP\_HUMAN Germinal-center associated nuclear protein OS=Homo sapiens  
GN=MCM3AP PE=1 SV=2

MNPTNPFSGQQPSAFSASSSNVGTLPSPKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPA  
SSGVSHSSSVQTLGFTQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTS  
VGA FPSTSAFGQEAGEIVNSGFGKTEFSFKPLENAVFVKPILGAESEPEKTSQSIASGFFTF  
SH PISSAPGGLAPFSFPQVTSSATTSNFTFSKPVSSNNSLSAFTPALSNQNVEEKRGPKS  
IFGSSNNSFSSFPVSSAVLGEFPQASKAGVRQGCEEAVSQVEPLPSLMKGLKRKEDQDRS  
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEA  
KKETGFVESAESDHMAIPGGNQSVLAPSRIPGVNKEEETESREKKEDSLRGTPARQSNRS

ESTDSLGGSPSEVTAIQCKNIPDYLDNRTILENHFGKIAKVQRIFTRRSKKLAVVHFFD  
HASAALARKKGKSLHKDMAIFWHRKKISPNKKPFSLKEKKPGDGEVSPSTEDAPFQHSPL  
GKAAGRTGASSLLNKSSPVKKPSLLKAHQFEGDSFDSASEGSEGLGPCVLSLSTLIGTVA  
ETSKEYRLLDQRDRIMRQARVKRTDLDKARTFVGTCLDMCPEKERYMRETRSQLSVFEV  
VPGTDQVDHAAVKEYSRSSADQEEPLPHELRLPLVLSRTMDYLVLTQIMDQKEGSLRDWY  
DFVWNRTRGIRKIDITQQHLCDPLTVSLIEKCTRFHIHCAHFMCEEPMSFSAKINNENMT  
KCLQSLKEMYQDLRNKGVCASEAEFGQYNVLLSLNKGDIILREVQQFHPAVRNSSEVKFA  
VQAFALNSNNFVRFFKLVSASYLNACLLHCYFSQIRKDALRALNFAYTVSTQRSTIFP  
LDGVVRMLLFRDCEEATDFLTCHGLTVSDGCVELNRSFALEPEGLSKTRKSVFITRKLTV  
SVGEIVNGGPLPPVPRHTPVCSFNSQNKYIGESLAAELPVSTQRPGS DTVGGGRGEECGV  
EPDAPLSSLPQSLPAPASPVPVLPVLA LTPSVAPSLFQLSVQPEPPPEPVPMYSDDEL  
AQVVDELIQEALQRDCEEVGSAGAAAYAAAALGVSNAAMEDLLTAATTGILRHIAAEVSK  
ERERREQERQRAEEERLKQERELVLSLSQGLAVELMERVMMEFVRETCSQELKNAVETD  
QRRVRARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQM  
RAFPAAPCCVDVSDRLRALAPSAECP IAEENLARGLLDLGHAGRLGISCTRLRLRNKTA  
HQMKVQHFIYQQLSDVAWASLDLPSLVAEHLPGRQEHVFWKLVLVLPDVEEQSPESCGRI  
LANWLKVKFMGDEGSVDDTSSDAGGIQTLSLFSLSKGDQMISVNVCIKVAHGALSDGA  
IDAVETQKDLLGASGLMLLLPPKMKSEDMAEEDVYWLSALLQLKQLLQAKPFQPALPLVV  
LVPSPGDAVEKEVEDGLMLQDLVSAKLISDYTVTEIPDTINDLQGSKVLQAVQWLVSH  
CPHSLDLCCQTLIQYVEDGIGHEFSGRFFHRRERRRLGGLASQEPGAI IELFNSVLQFLA  
SVVSSEQLCDLSWPVTEFAEAGGSRLPHLHWNAPHLAWLKQAVLGFQLPQMDLPPLGA  
PWLPCSMVVQYASQIPSSRQTQPVLSQVENLLHRTYCRWKS KSPSPVHGAGPSVMEIP  
WDDLIALCINHLKRDWTPPRLPTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQTQ  
KELQLREGRLAIKPFHPSANNFPIPLLHMRNWKIRSTECAQEGRIPSTEDLMRGASAEEL  
LAQCLSSSLLLEKENKRFEDQLQWLSEDSGAFTDLTSLPLYLPQTLVSLSHTIEPVMK  
TSVTTPSQSDMMREQLQSEATGTCLGERLKHLERLIRSSREEEVASELHLSALLDMVDI

>sp|Q14C86|GAPD1\_HUMAN GTPase-activating protein and VPS9 domain-containing protein 1  
OS=Homo sapiens GN=GAPVD1 PE=1 SV=2

MVKLDIHTLAHHLKQERLYVNSEKQLIQRLNADVLKTAEKLYRTAWIAKQQRINLDRLII  
TSAEASPAECCQHAKILEDTQFVDGYKQLGFQETAYGEFLSRLRENPRLIASSLVAGEKL  
NQENTQSVIYTVFTSLYGNCIMQEDES YLLQVLRYLIEFELKESDNPRRLLRGTCAFSI  
LFLKLFSEGLFSAKLFLTATLHEPIMQLLVEDEDHLETDPNKLIERFSPSQEKLFGKGS  
DRFRQKVQEMVESNEAKLVALVNKFIGYLKQNTYCFPHSLRWIVSQMYKTLSCVDRLEVG  
EVRAMCTDLLLACFICPAVVNPEQYGIISDAPINEVARFNLQVGRLLQQLAMTGSEEGD  
PRTKSSLGKFDKSCVAAFLDVVIGGRAVETPPLSSVNLEGLSRTVVYITYSQLITLVNF  
MKSVMSGDQLREDRMALDNLLANLPPAKPGKSSSLEMPYNTPQLSPATTPANKKNRLPI  
ATRSRSRTNMLMDLHMDHEGSSQETIQEVQPEEVLVISLGTGPQLTPGMMSENEVLNMQL  
SDGGQGDPVPDENKLHGKPKDRTLRFSLCSDNLEGISEGPSNRSNSVSSLDLEGESVSELG  
AGPSGNGVEALQLEHEQATTQDNLDDKLRFKFI RDMMGLTDDRDISETVSETWSTDVL  
GSDFDPNIDEDRLQEIAGAAAENMLGSLCLPGSGSVLLDPCTGSTISETTSEAWSVEVL  
PSDSEAPDLKQEERLQELESCSGLGSTSDDTDVREVSSRPSTPGLSVVSGISATSEIPN  
KIEDLRSECSSDFGGKDSVTS PDMDEITHGAHQLTSPPSQSESLAMFDPLSSHEGASAV  
VRPKVHYARPSHPDPPILEGAVGGNEARLPNFGSHVLTPAEMEAFKQRHSYPERLVRS  
RSSDIVSSVRRPMSDPSWNRPGNEERELPPAAAI GATSLVAAPHSSSSSPSKDSSRGET

EERKDSDEKSDRNPWWRKRFVSAMPKAPIFRKKEKQEKDDDLGPDRFSTLTDDPSP  
RLSAQAQVAEDILDKYRNAIKRTSPSDGAMANYESTGDNHDRDLSSKLLYHSDKEVMGDG  
ESAHDSRDEALQNISADDLPDSASQAHPQDSAFSYRDAKKLRALCSADSVAFPVLT  
HSTRNGLPDHTDPEDNEIVCFLKVQIAEAINLQDKNLMAQLQETMRCVCRFDNRTCRLKLL  
ASIAEDYRKRAPYIAYLTRCRQGLQTTQAHLERLLRVLRDKEVANRYFTTVCVRLLES  
KEKKIREFIQDFQKLTAADDKTAQVEDFLQFLYGAMAQDVIWQNASEEQQLQDAQLAIERS  
VMNRIFKLAFYPNQGDILRDQVLHEHIQRLSKVVTANHRALQIPEVYLREAPWPSAQSE  
IRTISAYKTPRDKVQCILRMCSTIMNLLSLANEDSVPGADDFVPVLVFLIKANPPCLLS  
TVQYISSFYASCLSGEESYWWMQFTA AVEFIKTIDDRK

>sp|Q9H706|GARE1\_HUMAN GRB2-associated and regulator of MAPK protein 1 OS=Homo sapiens  
GN=GAREM1 PE=1 SV=2

MDPAPSLGCSLKDVKWSSVAVPLDLLVSTYRLPQIARLDNGECVEGLRENDYLLIHSCRQ  
WTTITAHSL EEGHYVIGPKIEIPVHYAGQFKLLEQDRDIKEPVQYFNSVEEVAKAFPERV  
YVMEDITFNVKVASGECNEDTEVYNITLCTGDELTLMGQAEILYAKTFKEKSRLNTIFKK  
IGKLSISKLGKGMPCLICMNHRTNESISLPFQCKGRFSTRSPLELQMGEHEITIRNIV  
EKTRLPVNVTVPSPPRNPYDLHFIREGHRYKFVNIQTKTVVCCVLRNNKILPMHFPLH  
LTPVKFSLPEHLVKGESWPETLVHHWLGICQEQFDIDEYSRAVRDVKTDWNEECKSPKKG  
RCSGHNHVPNSLSYARDELTSFHRLSVCVYGNLHGNSEVNLHGCRDLGGDWAPFPHDI  
LPYQDSGDSGSDYLFPEASEESAGIPGKSELPYEELWLEEGKPSHQPLTRSLSEKNRCDQ  
FRGSVRSKCATSPLPIPGTLGAAVKSSDTALPPPVPKSEAVREECRLNAPPVPPRSA  
KPLSTSPSIPRRTVKPARQQTRSPSTLSYSSGLHNISVTKTDTNPSESTPVSCYPCNR  
VKTDSVDLKSPFGSPSAEAVSSRLSWPNHYSGASESQTRSDFLLDPSRSYSYPRQKTPGT  
PKRNCAPAFDFDGCCELLASPTSPVTAEFSSSVSGCPKSASYSLESTDVKSLAAGVTKQST  
SCPALPPRAPKLVEEKVASETSPLPLKIDGA EEDPKSGSPDLSEDQYFVKKGMDIFSAS  
YPFSSPLHLQLAPRSCGDGSPWQPPADLSGLSIEEVSKSLRFI GLSEDVISFFVTEKIDG  
NLLVQLTEEILSEDFKLSKLQVKKIMQFINGWRPKI

>sp|Q75VX8|GARE2\_HUMAN GRB2-associated and regulator of MAPK protein 2 OS=Homo sapiens  
GN=GAREM2 PE=1 SV=3

MEKLAAGLAGLRWSMGAFPLDLIVSRCLPTLACLGPGEYAEGVSERDILLIHSCRQWTT  
VTAHTLEE GHYVIGPKIDIPLYPGKFKLLEQARDVREPVRVFSSVEEVASVFPDRIFVM  
EAITFSVKVVSGEFSEDSEVYNFTLHAGDEL TLMGQAEILCAKTTKERSRFTTLRLKLG  
AGALAGVGGGPASAGAAGGTGGGARPVKGKMPCLICMNHRTNESLSLPFQCGRFSTR  
SPLELQMGEHEITVRAIIERVRLPVNVLPVSRPPRNPYDLHPVREGHCYKLVSIISKTVV  
LGLALRREGPAPLHFLLLTDTPRFALPQGLLAGDPRVERLVRDSASYCRERFDPDEYSTA  
VREAPAE LAEDCASPRRRLCLPAPRAPGLARAPGLAPAPAGEGDQEYVSPDWAAPEP  
AAPP AEIPYEELWAHQGEGLVRPPPGDLISFGAAGPPRREPEAPPPVPKSEAVKEE  
CRLNAPPVPPRGGNGSRLSSPPVPRFPKLQPVHSPSSSLSYSSGLQDGAGSRSGS  
GSPSPDTYSLYCPCWGDCKVGESSRPAPGPLPSTTQPSQASRALTEPLSGRAASLLG  
ADTPVKTYHSCPPLFKPSHPQKRFAPFGALNPFSGPAYPSGSAALSSGPRTTSGPVATS  
GPAYSPGPASPGQAYSAAPPSSCAPSSSSSEWQEPVLEPFDPFELGQGSSPEPELLRSQ  
EPRAVGTPGPGPRLSPLGPSKAFEPEGLVLHQVPTPLSPAALQGPEAGGALFLTQGRLEG  
PPASPRDGATGFGVRDASSWQPPADLSALSLEEVSRSLRFI GLSEDVVSFFARERIDGSI  
FVQLSEDI LADDFHLTKLQVKKIMQFIKWRPKI

>sp|Q96CN9|GCC1\_HUMAN GRIP and coiled-coil domain-containing protein 1 OS=Homo sapiens  
GN=GCC1 PE=1 SV=1

MEKFGMNFGGPSKKDLLETIETQKKQLLYQARLKDVVRAYKSLLKEKEALEASIKVLS  
VSHEADVGLAGVQLPGLTFPDSVDDRCSTHSEDSTGTATSLDTAASLTSTKGEFGVEDDR  
PARGPPPPKSEEASWSESGVSSSSGDPFAGGEVDKRLHQLKTQLATLTSSLATVTQEKS  
RMEASYLADKKMKQDLEDASNKAEERARLEGELKGLQEQAETKARLITQQHDRAQEQ  
SDHALMLRELQKLLQEERTQRQDELRLLEETREALAGRAYAAEQMEGFELQTKQLTREVE  
ELKSELQAIRDEKNQDPRLQELQEEAARLKSHFQAQLQEQMRKTALAEDQLRQQSQVEE  
QRVAALENQISEVSELLGTYEKAKQKQDLAIQKLKERILQLDLENKTLALAASSRSP LDS  
HGEESLSDVNVLDKMEKLRLLQVAARKSQVTLDVEKLCDEIMPSSEAADGEKATALY  
YQQELKQLKEEFERYKMRAQVVLKSKNTKDGNLGKELEAAQEQLAELKEYISLRLSCEE  
LEHQHQEADDWKQELARLQLHRQELERCQLDFRDRTLKLEELHKQRDRALAVLTEKD  
LELEQLRSVALASGLPGRRSPVGGGGPGDPADTSSSDSLTQALQLAAANEPTFFLYAEQL  
ARKEVEITSLRKQKHRLEVEVHQLQDRLLEEGERHREEVAALQSHIEKNIRDQSREGANL  
EYLKNIYRFLTLPSDLGRQQTLTAILTILHFSPEEKQVIMRLPTSASWWPSGKR

>sp|Q96MZ0|GD1L1\_HUMAN Ganglioside-induced differentiation-associated protein 1-like 1  
OS=Homo sapiens GN=GDAP1L1 PE=2 SV=2

MATPNNLTPTNCSWWPISALESDAAKPAEAPDAPEAASPAHWPRESLVLYHWTQSFSSQK  
VRLVIAEKGLVCEERDVSLPQSEHKPEWFMRLNLGEEVPVIIHRDNIISDYDQIIDYVER  
TFTGEHVVALMPEVGSGLQHARVLQYRELLDALPMDAYTHGCILHPELTTDSMIPKYATAE  
IRRHLANATDLMKLDHEEEPQLSEPYLSKQKKLMAKILEHDDVSYLKKILGELAMVLDQ  
IEAELEKRKLENEGQKCELWLCGCAFTLADVLLGATLHRLKFLGLSKKYWEDGSRPNLQS  
FFERVQRRFAFRKVLGDIHTTLLSAVIPNAFRLVKKRPPSFFGASFLMGSLLGGMGYFAYW  
YLKKKYI

>sp|P39905|GDNF\_HUMAN Glial cell line-derived neurotrophic factor OS=Homo sapiens GN=GDNF  
PE=1 SV=1

MKLWDVVAVCLVLLHTASAFPLPAGKRPPEAPAEDRSLGRRRAPFALSSDSNMPEDYPDQ  
FDDVMDFIQATIKRLKRSPDKQMAVLP RRERNRQAAAANPENSRGKGRRGQRGKNRGCVL  
TAIHLNVTDLGLGYETKEELIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCR  
PIAFDDDL SFLDDNLVYHILRKHSKRKCGCI

>sp|Q8WTR4|GDPD5\_HUMAN Glycerophosphodiester phosphodiesterase domain-containing protein  
5 OS=Homo sapiens GN=GDPD5 PE=1 SV=2

MVRHQPLQYYEPQLCL SCLTGIYGC RWKRYQRSHDDTTPWERLWFLLLTFTFGLTLTWLY  
FWWEVHN DYDEFNWLYNRMGYSDWPVPILVTAAAFAYIAGLLVLALCHIAVGQQMNL  
HWLHKIGLVVILASTVVAMSAVAQLWEDEWEVLLISLQGTAPFLHVGAVAAVTMLSWIVA  
GQFARAERTSSQVTILCTFFT VVFALYLAPLTISSPCIMEKKDLGPKPALIGHRGAPMLA  
PEHTLMSFRKALEQKLYGLQADITISLDGVPFLMHDTTLRRTTNVEEEFP ELARRPASML  
NWTTLQRLNAGQWFLKTD PFWTASSLSPSDHREAQNSICS LAELLELAKGNATLLLNLR  
DPPREHPYRSSFINVTLEAVLHSGFPQHQM WLP SRQRPLVRKVAPGFQQTSGSKEAVAS  
LRRGHIQRLNLR YTVSRQELRDYASWNLSVNLYTVNAPWLFSLWCAGVPSVTS DNSHA  
LSQVPSPLWIMPPDEYCLMWVTADLV SFTLIVGIFVLQKWRLGGIRSYNPEQIMLSAAVR  
RTSRDVSIMKEKLI FSEISDGEVSDVLSVCSDNSYDTYANSTATPVGPRGGGSHTKTLI  
ERSGR

>sp|P14136|GFAP\_HUMAN Glial fibrillary acidic protein OS=Homo sapiens GN=GFAP PE=1 SV=1

MERRRITSAARRSYVSSGEMMVGGLAPGRRLLPGTRLRLARMPPPLPTRVDFSLAGALNA  
GFKETRASERAEMMELNDRFASYIEKVRFLQQNKALAAELNQLRAKEPTKLADVYQAE  
RELRLRLDQLTANSARLEVERDNLAQDLATVRQKLQDETNRLEAENLAAYRQEAD  
EATLARLDLERKIESLEEIRFLRKIHEEEVRELQEQLARQQVHVELDVAKPDLTAALKE  
IRTQYEAMASSNMHEAEWYRSKFADLTDAARNAELLRQAKHEANDYRRQLQSLTCDLE  
SLRGTNESLERQMREQEERHVREAASYQEALARLEEEGQSLKDEMARHLQEYQDLLNV  
KLALDIEIATYRKLLEGEENRITIPVQTFSNLQIRETSLDTKSVSEGLKRNIVVKT  
VEMRDGEV  
IKESKQEHKDV

>sp|Q9UPW0|FOXJ3\_HUMAN Forkhead box protein J3 OS=Homo sapiens GN=FOXJ3 PE=1 SV=2

MGLYGQACPSVTSRLMTSELESSLTSMDWLPQLTMRAAIQKSDATQNAHGTGISKKNALL  
DPNTTLDQEEVQHKDGKPPYSYASLITFAINSSPKKKMTLSEIYQWICDNFPYYREAGS  
GWKNSIRHNLSLNCFLKVPRSKDDPGKGSYWAIDTNPKEDVLPTRPKKRARSVERASTP  
YSIDSDSLGMECIISGSASPTLAINTVTNKVTLYNTDQDGS DSPRSSLNNSLSDQSLASV  
NLNSVGSVHSYTPVTSHPESVSQSLTPQQQPQYNLPERDKQLLFSEYNFEDLSASFRSLY  
KSVFEQSLSQGLMNIPSESSQSHTSCTYQHSPSSTVSTHPSNQSSLNSHGSGLNTT  
GSNSVAQVSLSHPMHTQPSPHPPHRPHGLPQHPQRSHPAPHPQQHSQLQSPHPQHPSP  
HQHIQHHPNHQHTLTHQAPPPQVSCNSGVSNDWYATLDMLKESCRIASSVNWSDVDL  
SQFQGLMESMRQADLKNWSLDQVQFADLCSSLNQFFTQTGLIHSQSNVQQNVCHGAMHPT  
KPSQHIGTGPLYIDSRQNLPPSVMPPPGYPHIPQALSTPGTTMAGHHRAMNQHHMPSQA  
FQMRRLPPDDIQDDFDWDSIV

>sp|Q9C009|FOXQ1\_HUMAN Forkhead box protein Q1 OS=Homo sapiens GN=FOXQ1 PE=2 SV=2

MKLEVFVPRAAHGDKQGS DLEGAGSDAPSPLSAAGDSDLGSDGCAANSPAAGGGARDT  
QGDGEQSAGGGPGAEEAIPAAAAA VVAEGAEAGAAGPGAGGAGSGEGARSKPYTRRPKP  
PYSYIALIAMAIRDSAGGRLTAEINEYLMGKFPFFRGSYTGWRNSVRHNLSLNCDFVKV  
LRDPSRPWGKDNWMLNPNSEYTFADGVFRRRRKRKLSHRAPVPAPGLRPEEAPGLPAAPP  
PAPAAPASPRMRSPARQEERASPAKG FSSSFAIDSILRKPFRRRLRDTAPGTTLQWGAA  
PCPPLPAFPALLPAAPCRALLPLCAYGAGEPARLGAREAEVPPTAPPLLLAPLPAAAPAK  
PLRGAAGGAHLYCPLRLPAALQAASVRRPGPHLPYPVETLLA

>sp|Q6PJQ5|FOXR2\_HUMAN Forkhead box protein R2 OS=Homo sapiens GN=FOXR2 PE=1 SV=1

MDLKLKDCFWYSLHGQVPGLLDWMRNELFLPCTTDQCSLAEQILAKYRVGMKPPEMP  
QKRSPSPDGDGPCEPNLWWVDPNLCPLGSQEAPKPSGKEDLTNISFPFPQPKDEGS  
NCSEDKVVESLPSSSEQSPLQKGIHSPDFELTEEEAEPPDNLQSPKCYQSQKL  
WQINNQEKSQWRPPLNCSHLIALALRNNPHCGLSVQEIYNFTRQHFPFFWTAPDGWKSTI  
HYNLCFLDSFEKVPDSLKDENDARPRSLWKLKEGHRRFWEETRVLAFAQRERIQECMS  
QPELLTSLFDL

>sp|O43638|FOXSI1\_HUMAN Forkhead box protein S1 OS=Homo sapiens GN=FOXSI1 PE=2 SV=2

MQQQLPLPGGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRP  
GWQNSIRHNLSLNECFVKVPRDDRKP GKGSYWTLDPDCHDMFEHGSFLRRRRRFTRQTGA  
EGTRGPAKARRGPLRATSQDPGVPNATTGRQCSFPPELPDPKGLSFGGLVGAMPASMC  
PATTDGRPRPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFSEAESFNKAPT  
PVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV  
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

>sp|P02794|FRIH\_HUMAN Ferritin heavy chain OS=Homo sapiens GN=FTH1 PE=1 SV=2

MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYFYFDRDDVALKNFAKYFLHQS

HEEREHAEKLMKLQNQRGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVNQSLELHK  
LATDKNDPHLCDFIETHYLNEQVKAIKELGDHVTNLRKMGAPESGLAEYLFDKHTLGDS  
NES

>sp|Q8WU20|FRS2\_HUMAN Fibroblast growth factor receptor substrate 2 OS=Homo sapiens  
GN=FRS2 PE=1 SV=4

MGSCCSCPDKDTVPDNHRNKFVINVDDDGNELGSGIMELTDTIELIYTRKRDSVKWHYL  
CLRRYGYSNLSFSFSGRRCQTGGGIFAFKCARAEELFNMLQEIMQNNINNVVEEPVVER  
NNHQTELEVPRTPRPTTPGFAAQNLNGYPYPSFGDASSHPSSRHPVSGSARLPSVGE  
ESTHPLLVAEEQVHTYVNTTGVQEERKNRTSVHVPLEARVSNAESSTPKEEPSSIEDRDP  
QILLEPEGVKFVLGPTPVQKQLMEKEKLEQLGRDQVSGSGANTEWDTGYDSDERRDAPS  
VNKLVIENINGLSIPSASGVRRGRLTSTSTSDTQNNNSAQRRTALLNYENLPSLPPVWE  
ARKLSRDEDDNLGPKTPSLNGYHNNLDPMHNVNTENVTPASAHKIEYSRRRDCTPTVF  
NFDIRRPSEHRQLNYIQVDLEGGSDSDNPQTPKTPTTLPQTPTRRTELYAVIDIERTA  
AMSNLQKALPRDDGTSRKTRHNSTDLP

>sp|095073|FSBP\_HUMAN Fibrinogen silencer-binding protein OS=Homo sapiens GN=FSBP PE=1  
SV=1

MVGKARSSNFTLSEKDLLKLKPYVKILEEHTNKHSVIVEKNRCWDIIAVNYNAIGVDR  
PPRTAQGLRTLKRLKEYAKQELLQKQETQSDFKSNISEPTKKVMEMIPQISSFCLVRDR  
NHIQSANLDEEAQAGTSSLQVMDHHPVAITVEVKQEEDIKPPPPLVLNSQQSDTLEQRE  
EHVLVHMERSLSPSLSSVDMRMTSSPSSIPRRDDFFRHESGEHFRSLLGYDPQILQMLK  
EEHQIILENQKNFLYVQEKRDGLKRRQQLLEEELLRAKIEVEKLKAIRLRHDLPEYNSL

>sp|014926|FSCN2\_HUMAN Fascin-2 OS=Homo sapiens GN=FSCN2 PE=1 SV=1

MPTNGLHQVLKIQFGLVNDTDRLTAESFGFKVNASAPSLKRKQTWVLEPDGQGTAVLL  
RSSHLGRYLSAEDGRVACEAEQGRDCRFLVLPQPDGRWVLRSEPHGRFFGGTEDQLSC  
FATAVSPAELWTVHLAIHPQAHLLSVSRRRYVHLCPREDEMAADGDKPWGVDALLTLIFR  
SRRYCLKSCDSRYLRSRGRLVWEPEPRACYTLEFKAGKLAFKDCDGHYLA PVGPAGTLKA  
GRNTRPGKDELFDLEESHPQVVLAANHRYVSVRQGVNVSANQDDELHETFLMQIDQET  
KKCTFYSSGTYWTLVTHGGIATATQVSANTMFEMEWRGRRVALKASNGRYVCMKNGQ  
LAAISDFVGKDEEFTLKLINRPILVLRGLDGFVCHHRGSNQLDNRSVYDVFHLSFSDGA  
YRIRGRDGGFWYTGSHGSVCSDGERAEDFVFEFRERGRLAIRARSGKYLRGGASGLLRAD  
ADAPAGTALWEY

>sp|Q9BXM9|FSD1L\_HUMAN FSD1-like protein OS=Homo sapiens GN=FSD1L PE=1 SV=2

MDSQKYCFKENENVTDKACFLISNITIGPESINLQQEALQRIISTLANKNDEIQNFIDT  
LHHTLKGQENSSNLSLDEEFDLSYLDEVKESMINKIKQEQARKSQELQSQISQCN  
NALENSEELLEFATRSLDIKEPEEFSKAARQIKDRVTMASAFRLSLKPKVSDNMTHLMVD  
FSQERQMLQTLKFLPVKAPKIDPVECLVADNSVTVAWRMPEEDNKIDHFILEHRKTNFD  
GLPRVKDERCWEIIDNIGKTEYTLISGLKFDISKYMNFRVRACNKAVAGEYSDPVTLETAL  
NFDNLDSSSHLNLKVEDTCVEWDPTGGKGQESKIKGKENKGRSGTPSPKRTSVGSRPPAV  
RGSRRDFTGESYTVLGDIAESGQHYWEVKAQKDKSYSGVAYKTLGKFDQLGKTNTSW  
CIHVNNWLQNTFAAKHNNKVKALDVTVPKIGVFCDFDGGQLSFYDANSKQLLYSFKTKF  
TQPVLPFGFMVWCGGLSLSTGMQVPSAVRTLQKSENGMTGSASSLNNVVTQ

>sp|A1L4K1|FSD2\_HUMAN Fibronectin type III and SPRY domain-containing protein 2 OS=Homo  
sapiens GN=FSD2 PE=1 SV=1

MEEESGEELGLDRSTPKDFHFYHMDLYDSEDRLHLFPEENTRMRKVVAEMANESRGAGD

GKAQRDLQEEVDELVHLYGLEDDHELGDEFVDENIPRTGVSEYPPYMMKRDPAREQRDW  
RLSGEAAEAEDLGFGWGSAGQCQDLREAYRYTHGRASEEYECYVIPLEEEDEEEAADVFC  
VTCKTPIRAFQKVFDEHKEHEVIPLNEALESADKDEIHKNNYKLEKQIEMENFANHLEEV  
FITVEENFGKQEQNFESHYNEILETLAQKYEEKIQALGEKKKEKLEALYGQLVSCGENLD  
TCKELMETIEEMCHEEKVDFIKDAVAMADRLGKFLKTKTDVEISAQPEFEDQTLDFSDVE  
QLMGSENTIPAPSAPVINPQVPNSATGSSVRVCWSLYSDDTVESYQLSYRPVQDSSPGTD  
QAEFTVTVKETYCSVTNLVPNTQYEFWVTAHNRAGPSPSSERAVYMTAPSPPIIKTKEIR  
SCEEAVLICWESGNLNPVDSYTVELTQAESPEASGVTESVVGIPTCESVVQLQPGRSYII  
YVRALNMGGPSVRSEPATVHTIGSYFRLNKDTCHPWLTISEDGLTAVRSERRTPARELSP  
SDTHFTRCVAVMGNLIPVRGHHYWEVEVDEHLDYRVGVAFADVRKQEDLGANCLSWCMRH  
TFASSRHKYEFLHNRTPDIRITVPPKKIGILLDYEHSKLSFFNVDLSQHLYTFSCQLHE  
FVHPCFSLEKPGCLKVHNGISMPKHVTFY

>sp|P01225|FSHB\_HUMAN Follitropin subunit beta OS=Homo sapiens GN=FSHB PE=1 SV=2

MKTLQFFFLFCCWKAICCNSELNITIAIEKEECRFCISINTTWCAGYCYTRDLVYKDP  
ARPKIQKTCTFKELVYETVRVPGCAHHADSLYTPVATQCHCGKCDSDSTDCTVRGLGPS  
YCSFGEMKE

>sp|O95633|FSTL3\_HUMAN Follistatin-related protein 3 OS=Homo sapiens GN=FSTL3 PE=1 SV=1

MRPGAPGLWPLPWGALAWAVGFVSSMGSGNPAPGGVCWLQQGQEATCSLVLQTDVTRAE  
CCASGNIDTAWSNLTHPGNKINLLGFLGLVHCLPCKDSCDGVCEGPGKACRMLGGRPRCE  
CAPDCSGLPARLQVCGSDGATYRDECELRAARCRGHPDLSVMYRGRCRKSCEHVVCPRPQ  
SCVVDQTGSAHCVCRAAPCPVPSSPGQELCGNNNTYIISCHMRQATCFLGRSIGVRHA  
GSCAGTPPEPPGGESAEEEEENFV

>sp|Q68CZ1|FTM\_HUMAN Protein phantom OS=Homo sapiens GN=RPGRIP1L PE=1 SV=2

MSGPTDETAGDLPVKDTGLNLFMGGLQETSTTRTMKSRQAVSRVSREELEDRFLRLHDE  
NILLKQHARKQEDKIKMATKLIRLVNDKKRYERVGGGPKRLGRDVEMEEMIEQLQEKVH  
ELEKQNETLKNRLISAKQQLQTQGYRQTPYNNVQSRINTGRRKANENAGLQECPRKGIKF  
QDADVAETPHPMFTKYGNSLLEEARGEIRNLENNVQSQRGQIEELEHLAEILKTQLRRKE  
NEIELSLLQLREQATDQRSNIRDNVEMIKLHKQLVEKSNALSAMEGKFIQLQEKQRTLRL  
ISHDALMANGDELNMQLKEQRLKCCSLEKQLHSMKFSERRIEELQDRINDLEKERELLKE  
NYDKLYDSAFSAHEEQWKLKEQQLKVQIAQLETALKSDLTDKTEILDRLKTERDQNEKL  
VQENRELQLQYLEQKQQLDELKKRIKLYNQENDINADELSEALLIKAQKEQKNGDLSFL  
VKVDSEINKDLERSMRELQATHAETVQELEKTRNMLIMQHKINKDYQMEVEAVTRKMENL  
QQDYELKVEQYVHLLDIRAARIHKLEAQLKDIAYGTKQYKFKPEIMPDDSVDEFDETIHL  
ERGENLFEIHINKVTFSSSEVLQASGDKEPVTFTCYAFYDFELQTTTPVVRGLHPEYNFTSQ  
YLVHVNDLFLQYIQKNTITLEVHQAYSTEYETIAACQLKFHEILEKSGRIFCTASLIGTK  
GDIPNFGTVEYWFRLRVPMDQAIRLYRERAKALGYITSNFKGPEHMQSLSQQAPKTAQLS  
STDSTDGNLNLHITIRCCNHLQSRASHLQPHPYVVYKFFDFADHDTAIIIPSSNDPQFDD  
HMYFPVPMNMDLDRYLKSESLSFYVFDDSDTQENIYIGKVVNPLISLAHDCISGIFELT  
DHQKHPAGTIHVILKWKFAYLPPSGSITTEDLGNFIRSEEPEVVQRLPPASSVSTLV LAP  
RPKPRQRLTPVDKKVSFVDIMPHQSDTSPPPEDRKEISPEVEHIPEIEINMLTVPHVPK  
VSQEGSVDEVKENTKMQQGGKDDVSLLSEGQLAEQSLASSEDETEITEDLEPEVEEDMSA  
SDSDDCIIPGPISKNIKQSLALSPGLGCSSAISAHCNFRLPGSSDFPASASQVDGITGAC  
HHTQPSEKIRIEIIALSNDQSQVTMDDTIQRFLVECRFYSLPAEETPVSLPKPKSGQWVY  
YNYSNVIIYVDKENNAKRDILKAILKQKQEMPNRSLRFTTVVSDPPEDEQDLECEDIGVAHV

DLADMFQEGRDLEQNIDVFDARADGEGIGKLRVTVEALHALQSVYKQYRDDLEA

>sp|Q9YNA8|GAK19\_HUMAN Endogenous retrovirus group K member 19 Gag polyprotein OS=Homo sapiens GN=ERVK-19 PE=1 SV=3

MGQTKSKIISKYASYLSFIKILLKRGGVKVSTKNLIKLFQIIIEQFCPWFEQGTLDLKD  
WKRIGKELKQAGRKGNIIPLTWNDWAI IKAALPEPFQTEEDSVSVSDAPGSCI IDCNENTR  
KKSQKETESLHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKVPPELVGPSESKPRG  
TSRLPAGQVPVTLQPKQVKENKTQPPVAYQYWPPAELQYRPPLESQYGYPGMPPAPQGR  
APYPQPPTRRNLNPTAPPSRRGSELHEI IDKSRKEGDTEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGNPSYMRLLDSIAHGRLIPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQRNRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSGTSCPSFNTVRQGSKEPYPDFVARLQDVAQKSI AIEKARKVIVELMA  
YENPNPECQSAIKPLKGVKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCPVLNKQINITIQATTGREPPDLCPRCKKGKHASQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIQPFVPHGFQGGQPPLSQVFQGISQLPQYNNCPPP  
QAAVQQ

>sp|Q7LDI9|GAK6\_HUMAN Endogenous retrovirus group K member 6 Gag polyprotein OS=Homo sapiens GN=ERVK-6 PE=1 SV=3

MGQTKSKIISKYASYLSFIKILLKRGGVKVSTKNLIKLFQIIIEQFCPWFEQGTLDLKD  
WKRIGKELKQAGRKGNIIPLTWNDWAI IKAALPEPFQTEEDSVSVSDAPGSCI IDCNENTR  
KKSQKETEGHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKGPPELVGPSESKPRG  
TSPLPAGQVPVTLQPKQVKENKTQPPVAYQYWPPAELQYRPPLESQYGYPGMPPAPQGR  
APYPQPPTRRNLNPTAPPSRQSGSKLHEI IDKSRKEGDTEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGNPSYMRLLDSIAHGRLIPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQRNRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSGTSCPSFNTVRQGSKEPYPDFVARLQDVAQKSI ADEKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGRKCYNCGQIGHLKKNCPVLNKQINITIQATTGREPPDLCPRCKKGKHASQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIQPFVPQGFQGGQPPLSQVFQGISQLPQYNNCPPP  
QAAVQQ

>sp|P63145|GAK24\_HUMAN Endogenous retrovirus group K member 24 Gag polyprotein OS=Homo sapiens GN=ERVK-24 PE=1 SV=2

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WKRIGKELKQAGRKGNIIPLTWNDWAI IKAALPEPFQTEEDSVSVSDAPGSC LIDCNEKTR  
KKSQKETESLHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKGPPELVGPSESKPRG  
TSPLPAGQVPVTLQPKQVKENKTQPPVAYQYWPPAELQYRPPLESQYGYPGMPPAPQGR  
APYPQPPTRRNLNPTAPPSRQSGSELHEI IDKSRKEGDTEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGNPSYMRLLDSIA YHGRLIPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQRNRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSACPSFNTVRQGSKEPYPDFVARLQDVAQKSI ADEKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCPVLNKQINITIQATTGREPPDLCPRCKKGKHASQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIQPFVPQGFQGGQPPLSQVFQGISQLPQYNNCLP  
QAAVQQ

>sp|P22466|GALA\_HUMAN Galanin peptides OS=Homo sapiens GN=GAL PE=1 SV=3



MARGSALLLASLLAAALSASAGLWSPAKEKRGWTLNSAGYLLGPHAVGNHRSFSDKNGL  
TSKRELRPEDDMKPGSFDRSIPENNIMRTIIIEFLSFLHLKEAGALDRLLDLPAASSEDI  
ERS

>sp|Q14376|GALE\_HUMAN UDP-glucose 4-epimerase OS=Homo sapiens GN=GALE PE=1 SV=2  
MAEKVLVTGGAGYIGSHTVLELLEAGYLPVVIDNFHNAFRGGSLPESLRRVQELTGRSV  
EFEEMDILDQALQRLFKKYSFMAVIHFAGLKAVGESVQKPLDYRVNLTGTIQLLEIMK  
AHGVKNLVFSSSATVYGNPQYLPDLDEAHPTGGCTNPYGKSKFFIEEMIRDLCAQDKTUNA  
VLLRYFNPTGAHASGCIGEDPQGIPNNLMPYVSQVAIGRREALNVFGNDYDTEGTGVRD  
YIHVVDLAKGHIAALRKLEQCGCRIYNLTGTGTGYSVLQMVQAMEKASGKKIPYKVARR  
EGDVAACYANPSLAQEELGWTAAALGLDRMCEDLWRWQKQNPSTGFGTQA

>sp|O60755|GALR3\_HUMAN Galanin receptor type 3 OS=Homo sapiens GN=GALR3 PE=1 SV=1  
MADAQNISLSDSPGSGAVAVPVVFALIFLLGTVGNGLVAVLLQPGSAWQEPGSTDLF  
ILNLAVADLCFILCCVPFQATIIYTLDAWLFALVCKAVHLLIYLTMYASSFTLAASVDR  
YLAVRHPLRSRALRTPRNARAAGLVWLLAALFSAPYLSYYGTVRYGALELCVPAWEDAR  
RRALDVATFAAGYLLPVAVVSLAYGRTLRLWAAVGPAGAAAAEARRRATGRAGRAMLAV  
AALYALCWGPHHALILCFWYGRFAFSPATYACRLASHCLAYANSCLNPLVYALASRHFRA  
RFRRLWPCGRRRRHRARRALRRVRPASSGPPGCPGDARPSGRLLAGGGQGPEPREGPVHG  
GEAARGPE

>sp|O43603|GALR2\_HUMAN Galanin receptor type 2 OS=Homo sapiens GN=GALR2 PE=1 SV=1  
MNVSGCPGAGNASQAGGGGGWHPEAVIVPLLFALIFLVGTVGNTLVAVLLRGGQAVSTT  
NLFILNLGVADLCFILCCVPFQATIIYTLDGWVFGSLLCKAVHFLIFLTMHASSFTLAASV  
LDLYLAIRYPLHSRELRTPRNALAAIGLIWGLSLLFSGPYLSYYRQSQLANLTVCHPAWS  
APRRRAMDICTFVFSYLLPVLVLGLTYARTLRYLWRAVDPAAGSGARRAKRKVTRMILI  
VAALFCLCWMPHHALILCVWFGQFPLTRATYALRILSHLVSYANSCVNPVYALVSKHFR  
KGFRTICAGLLGRAPGRASGRVCAARGTHSGSVLERESSDLLHMSEAAGALRPCPGASQ  
PCILEPCPGPSWQGPAGDSILTVDA

>sp|Q10472|GALT1\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 1 OS=Homo sapiens  
GN=GALNT1 PE=1 SV=1  
MRKFAYCKVVLATSLIWVLLDMFLLLYFSECNKCDEKKERGLPAGDVLEPVQKPHEGPGE  
MGKPVVIPKEDQEKMKEMFKINQFNLMASEMIALNRSLPDVRLEGCKTKVYPDNLPTTSV  
VIVFHNEAWSTLLRTVHSVINRSPRHMIEEIVLVDDASERDFLRPLESYVKKLKVPVHV  
IRMEQRSLIRARLKGAASVSKGVITFLDAHCECTVGWLEPLLARIKHDRRTVVCPIIDV  
ISDDTFEYMAGSDMTYGGFNWKLNFRWYVPVQREMDRRKGDRTLPRVPTMAGGLFSIDR  
DYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKATPYTFPGGTGQ  
IINKNNRRLAEVWMEDEFKNFFYIISPGVTKVDYGDISSRVGLRHLQCKPFSWYLENIYP  
DSQIPRHYFSLGEIRNVETNQCLDNMARKENEKVGIFNCHGMGQNQVFSYTANKEIRTD  
LCLDVSKLNGPVMTLKHHLKGNQLWEYDPVKLTQHVNSNQCLDKATEEDSQVPSIRDC  
NGRSQQWLLRNVTLPET

>sp|Q8N4A0|GALT4\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 4 OS=Homo sapiens  
GN=GALNT4 PE=1 SV=2  
MAVRWTWAGKSCLLLAFLTVAYIFVELLVSTFHASAGAGRARELGSRRLSDLQKNTEDLS  
RPLYKKPPADSRALGEWGKASKLQLNEDELKQQEELIERYAINIYLSDRISLHRHIEDKR  
MYECKSQKFNYRTLPTTSVIAFYNEAWSTLLRTIHSVLETSAPVLLKEIILVDDLSDRV  
YLKTQLETYISNLDVRVLRIRTNKREGLVRARLIGATFATGDVLTFLDCHCECNSGWLEPL

LERIGRDETAVVCPVIDTIDWNTFEFYMQIGEPMIGGFDWRLTFQWHSVPKQERDRRISR  
IDPIRSPTMAGGLFAVSKKYFYQLGTYDTGMEVWGGENLELSFRVWQCGGKLEIHPCSHV  
GHVFPKRAPYARPNFLQNTARAAEVWMEYKEHFYNRNPPARKEAYGDISERKLLRERLR  
CKSFDWYLKNVFPNLHVPEDRPGWHGAIRSRGISSECLDYNPDNNPTGANLSLFGCHGQ  
GGNQFFEYTSNKEIRFNSVTELCAEVPEQKNYVGMQNCPKDGFVPANI IWHFKEDGTIF  
HPHSGLCLSAYRTPEGRPDVQMRTCDALDKNQIWSFEK

>sp|Q9H2C0|GAN\_HUMAN Gigaxonin OS=Homo sapiens GN=GAN PE=1 SV=1

MAEGSAVSDPQHAARLLRALSSFREESRFCD AHLVLDGEEIPVQKNILAAASPYIRTKLN  
YNPPKDDGSTYKIELEGISVMVMREILDYIFSGQIRLNEDTIQDVVQAADLLLLTDLKTL  
CCEFLEGCIAAENCIGIRDFALHYCLHHVHYLATEYLETHFRDVSSTEEFLELSPQKLKE  
VISLEKLVNGNERYVFEAVIRWIAHDTEIRKVHMKDVM SALWVSGLDSSYLREQMLNEPL  
VREIVKECSNIPLSQPQQGEAMLANFKPRGYSECIVTVGGEERSRKPTAAMRCMCPLYD  
PNRQLWIELAPLSMPRINHGVLSAEGFLFVFGGQDENKQTLSSGEKYDPDANTWTALPPM  
NEARHNFGIVEIDGMLYILGGEDGEKELISMECYDIYSKTWTKPDLTMVRKIGCYAAMK  
KKIYAMGGGSYGKLFESVECYDPRTQQWTAICPLKERRFGAVACGVAMELYVFGGVSRE  
DAQGSEMVTKSEFYHDEFKRWIYLNDQNL CIPASSSFVYGAVPIGASIYVIGDLDTGTN  
YDYVREFKRSTGTWHHTKPLPSDLRRTGCAALRIANCKLFRLLQLQGLFRIRVHSP

>sp|Q9H4G4|GAPR1\_HUMAN Golgi-associated plant pathogenesis-related protein 1 OS=Homo sapiens GN=GLIPR2 PE=1 SV=3

MGKSASKQFHNEVLKAHNEYRQKHGVPPLKLCCKNLNREAQQYSEALASTRILKHSPSSR  
GQCGENLAWASYDQTGKEVADRWYSEIKNYNFQQPGFTSGTGHFTAMVWKN TKMGVGKA  
SASDGSSFVVARYFPAGNVVNEGFFEENVLPKK

>sp|Q5VVW2|GARL3\_HUMAN GTPase-activating Rap/Ran-GAP domain-like protein 3 OS=Homo sapiens GN=GARNL3 PE=2 SV=2

MVVDFCRRFVARSLCIILMKHFCSSSVSEDLGCRRGDFS RKHYGSVELLISSDADGAIQR  
AGRFRVENGGSDENATALPGTWRRTDVHLENPEYHTRWYFKYFLGQVHQNYIGNDAEKSP  
FFLSVTLSQNNQRVPQYRAILWRKTGTQKICLPYSPTKTL SVKSILSAMNLDFEKGPR  
EIFHP EIQDLLVLEEQEGSVNFKFGVLFAKDGQLTDEMF SNEIGSEPFQKFLNLLGDT  
ITLKGWTGYRGGLDTKNDTTGIHSVYTVYQGHEIMFHVSTMLPYSKENKQOVERKRHIGN  
DIVTIVFQEGEESSPAFKPSMIRSHFTHIFALVRYNQNDNYRLKIFSEESVPLFGPPLP  
TPPVFTDHQEFRDFFLVKLINGEKATLETPTFAQKRRRTL DMLIRSLHQDLMPDLHKNML  
NRRSFDVLPESPKSARKKEEARQAEFVRIGQALKLSIVRGDAPSSLAASGICKKEPWE  
PQCFCSNFPHEAVCADPWGQALLVSTDAGVLLVDDDLSPVPVFDRTL PVKQMHVLETDL  
LVLRADKGKDARLFVFRLSALQKLEGKQAGKSRSDCRENKLEKTKGCHLYAINTHHSRE  
LRIVVAIRNKLLLITRKH NKPSGVTSTLLSPLSESPVEEFQYIREICLSDSPMVM TLVD  
GPAEESDNLICVAYRHQFDV VNESTGEAFRLHHVEANRVNFVAAIDVYEDGEAGLLLCYN  
YSCIYKKVCPFNGGSFLVQPSASDFQFCWNQAPYAIVCAFPYLLAFTTDSMEIRLVVGN  
LVHTAVVPQLQLVASRSDIYFTATAAVNEVSSGGSSKGASARNSPQTPPGRDTPVFPSSL  
GEGEIQSKNLYKIPLRNLVGRSIERPLKSPLVSKVITPPTPISVGLAAIPVTHSLSLSRM  
EIKEIASRTRRELLGLSDEGGPKSEGAPKAKSKPRKRLEESQGGPKPGAVRSSSSDRIPS  
GSLESASTSEANPEGHSASSDQDPVADREGSPVSGSSPFQLTAFSDEDIIDLK

>sp|P09958|FURIN\_HUMAN Furin OS=Homo sapiens GN=FURIN PE=1 SV=2

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FGDYHFWHRGVTKRSLSPHRPRHSRLQREPQVQWLEQQVAKRRTKRVDVYQEPTDPKFPQ

QWYLSGVTQRDLNVKAAWAQGYTGHGIVVSILDDGIEKNHPDLAGNYDPGASFVNDQDP  
DPQPRYTQMNDNRHGTRCAGEVAAVANNGVCGVGVAYNARIGGVRMLDGEVTDAVEARSL  
GLNPNIHIYSASWGPEDDGKTVDPARLAEAEFFRGVSQGRGGLGSIFVWASGNNGREH  
DSCNCDGYTNSIYTLSSSATQFGNVPWYSEACSSTLATTYSSGNQNEKQIVTTDLRQKC  
TESHTGTSASAPLAAGIIALTLEANKNLTWDRMQHLVVQTSKPAHLNANDWATNGVGRKV  
SHSYGYGLLDAGAMVALAQNWTVPQRKCIIDILTEPKDIGKRLEVRKTVTACLGEPNH  
ITRLEHAQARLTLSYNRRGDLAIHVSPMGTRSTLLAARPHDYSADGFNDWAFMTTHSWD  
EDPSGEWVLEIENTSEANNYGTLTKFTLVLYGTAPGLPVPPESSGCKTLTSSQACVVCE  
EGFSLHQKSCVQHCPGFAPQVLDTHYSTENDVETIRASVCAPCHASCATCQGPAITDCL  
SCPSHASLDPVEQTCRSQSQSSRESPPQQQPRLPPEVEAGQRLRAGLLPSHLPEVVAGL  
SCAFIVLVFVTVFLVLQLRSGFSFRGVKVYTMDRGLISYKGLPPEAWQEECPDSEEDG  
RGERTAFIKDQSAL

>sp|Q9Y2I7|FYV1\_HUMAN 1-phosphatidylinositol 3-phosphate 5-kinase OS=Homo sapiens  
GN=PIKFYVE PE=1 SV=3

MATDDKTSPTLDSANDLPRSPTSPSHLTHFKPLTPDQDEPPFKSAYSSFVNLFRFNKERA  
EGGQGEQQPLSGSWTSPQLPSRTQSVRSPTPYKKQLNEELQRRSSALDTRRKAEPFEGGH  
DPRTAVQLRSLSTVLKRLKEIMEGKSQSDSLKQYWMPDSQCKEYDCSEKFTTFRRRHHC  
RLCGQIFCSRCCNQELPGKFMGYTGDLRACTYCRKIALSYAHSTDSNSIGEDLNALSDSA  
CSVSVLDPSEPRTPVGSRKASRNIFLEDDLAWQSLIHPDSSNTPLSTRLVSVQEDAGKSP  
ARNRSASITNLSLRSGSPMVPSYETSVSPQANRTYVRTETTEDERKILLDSVQLKDLWK  
KICHHSSGMEFQDHRYLWLRTHPNCIVGKELVNWLIRNGHIATRAQAIAGQAMVDGRWLD  
CVSHHDQLFRDEYALYRPLQSTEFSETPSDSDSVNSVEGHSEPSWFKDIKFDDSDTEQI  
AEEGDDNLANSASPSKRTSVSSFQSTVSDSAASISLNVELDNVNFHIKKPSKYPHVPPH  
PADQKEYLISDTGGQQLSISDAFIKESLFNRRVEEKSKELPFTPLGWHHNNLELLREENG  
EKQAMERLLSANHNHMMALLQQLLHSDSLSSSWRDIIVSLVCQVVQTVRPDVKNQDDMD  
IRQFVHIKKIPGGKKFDSVVVNGFVCTKNIAHKKMSSCIKNPKILLKCSIEYLYREETK  
FTCIDPIVLQEREFLKNYVQRIVDVRPTLVLVEKTVSRIAQDMLLEHGITLVINVKSQVL  
ERISMTQGDLVMSMDQLLTKPHLGTCHKFYMQIFQLPNEQTKTLMFFEGCPQHLGCTIK  
LRGGSYELARVKEILIFMICVAYHSQLEISFLMDEFAMPPTLMQNPSFHSLIEGRGHEG  
AVQEYGGGSIPWDPDIPPESLPCDDSSLELRIVFEKGEQENKNLPQAVASVKHQEHST  
TACPAGLPCAFAFPVPESLLPLPVDDQQDALGSEQPETLQQTVVVLQDPKSQIRAFRDPLQ  
DDTGLVYTEEVTSSDKRKTYSLAFKQELKDVLICISPVITFREPFLTEKGMRCSTRDY  
FAEQVYWSPLLNKEFKEMENRRKKQLLRDLSGLQGMNGSIQAKSIQVLPSHELVSTRIAE  
HLGDSQSLGRMLADYRARGGRIQPKNSDPFAHSKDASSTSSGSGSKNEGDEERGLILSD  
AVWSTKVDCLNPINHQRCLVLFSSSSAQSSNAPSACVSPWIVTMEFYGKNDLTGIFLER  
YCFRPSYQCPSMFCDTPMVHHIRRFVHGQGCQVIILKELDSPVPGYQHTILTYSWCRICK  
QVTPVVALSNESWSMSFAKYLELRFYGHQYTRRANAEPCHSIIHHDYHQYFSYNQMVASF  
SYSPIRLLEVCVPLPKIFIKRQAPLKVSLQLDKDFFQKVSQVYVAIDERLASLKTDTFS  
KTREEKMEDIAFAKEMEEGEFKNWIEKMQARLMSSSVDPQQLQSVFESLIAKKQSLCEV  
LQAWNRLQDLFQQEKGRKRPSVPPSPGRLRQGEESKISAMDASPRNISPGQLNGEKEDR  
FLTTLSSQSSTSTHLQLPTPEVMSEQSVGGPPELDTASSSEDVFDGHLLGSTDSQVKE  
KSTMKAIFANLLPGNSYNPIPFDPDKHYLMEHERVPIAVCEKEPSSIIAFALSCKEY  
RNALEELSKATQWNSAEGLPTNSTSDSRPKSSSPIRLPEMSGGQTNRTTETEPQPTKKA  
SGMLSFFRGTAGKSPDLSSQKRETLRGADSAYYQVGQTGKEGTENQGVPEQDEVDGGDTQ

KKQLINPHVELQFSDANAKFYCRLLYAGEFHKMREVILDSSEEDFIRSLSHSSPWQARGG  
KSGAAFYATEDDRFILKQMPRLEVQSFLDFAPHYFNYITNAVQQKRPTALAKILGVYRIG  
YKNSQNTEKKLLDLVLMENLFYGRKMAQVFDLKGSLRNRNVKTDGKESCDVLLDENLL  
KMVRDNPLYIRSHSKAVLRITSIHSDSHFLSSHLIIDYSLLVGRDDTSNELVVGIIDYIRT  
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>sp|Q14332|FZD2\_HUMAN Frizzled-2 OS=Homo sapiens GN=FZD2 PE=1 SV=1

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LGHTNQEDAGLEVHQFYPLVKVQCSPELRFFLCSMYAPVCTVLEQAIPPCRSICERARQG  
CEALMNKFGFQWPERLRCEHFPRHGAEQICVGQNHSEDGAPALLTTAPPPGLQPGAGGTP  
GGPGGGGAPPRYATLEHPFHCPRLVKVPSYLSYKFLGERDCAAPCEPARPDGSMFFSQEE  
TRFARLWILTWSVLLCASTFFTVTYTLVDMQRFYPERPIIFLSGCYTMVSVAYIAGFVL  
QERVVCNERFSEDGYRTVVQGTKEGCTILFMMLYFFSMASSIWWVILSLTWFLAAGMKW  
GHEAIEANSQYFHLAAWAVPAVKTITILAMGQIDGDLGVCVGLNSLDPLRGFVLAPL  
FVYLFIGTSFLLAGFVSLFRIRTIMKHDGTEKLERLMVRIGVFSVLYTVPATIVIACY  
FYEQAQFREHWERSWWSQHCKSLAIPCPAHYTPRMSPDFTVYMIKYLMTLIVGITSGFVIW  
SGKTLHSWRKFYTRLTNSRHGETTV

>sp|000144|FZD9\_HUMAN Frizzled-9 OS=Homo sapiens GN=FZD9 PE=2 SV=1

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RCAPIMEQFNFGWPDSDLCARLPTRNDPHALCMEAPENATAGPAEPHKGMLPVAPRPA  
RPPGDLGPGAGGSGTCENPEKFQYVEKSRSCAPRCGPGVEVFWRRDKDFALVWMAVWSA  
LCFFSTAFTVLTFLEPHRFQYPERPIIFLSMCYNVYSLAFLIRAVAGAQSACDQEAGA  
LYVIQEGLENTGCTLVFLLLYYFGMASSLWWVVLTLTWFLAAGKKWGHEAIEAHGSYFHM  
AAWGLPALKTIVILTLRKVAGDELTLGCVASTDAAALTGFVLVPLSGYLVLGSSFLLTG  
FVALFHIRKIMKTGGTNTKEKLEKLMVKIGVFSILYTPATCVIVCYVERLNMDFWRLRA  
TEQPCAAAAGPGRRDCSLPGGSVPTVAVFMLKIFMSLVVGITSGVWVWSSKTFQTWQSL  
CYRKIAAGRARAKACRAPGSYGRGTHCHYKAPTIVVLHMTKTDPSLENPHL

>sp|Q9NY12|GAR1\_HUMAN H/ACA ribonucleoprotein complex subunit 1 OS=Homo sapiens GN=GAR1  
PE=1 SV=1

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GQDQGPPERVVLLGEFLHPCEDDIVCKCTDENKVYPFNAPVYLENKEQIGKVDEIFGQL  
RDFYFSVKLSENMKASSFKKLQKFYIDPYKLLPLQRFLPRPPGEKGPGRGGGRGGGRGG  
GGGGRRGGGRGGFRGGRRGGGGGFRGGRRGGGFRGRGH

>sp|Q5JY77|GASP1\_HUMAN G-protein coupled receptor-associated sorting protein 1 OS=Homo  
sapiens GN=GPRASP1 PE=1 SV=3

MTGAEIESGAQVKPEKKPGEEVVGAEIENDVPLVVRPKVRTQAQIMPGARPKNKSVMVP  
GASTKVETSAVGGARPKSKAKAIPVSRFKEEAQMQWAQPRFGAERLSKTERNSQTNIASP  
LVSTDSVLVAKTKYLSERELVNTDTESFPRRKAHYQAGFQPSFRSKEETNMGSWCCPRP  
TSKQEASPNDFKWVDKSVSSLFWSGDEVTAKFHPGNRVKDSNRSMHMANQEANTMSRSQ  
TNQELYIASSSGSEDESVKTPFWFWDKNTWSGPREDPNSRSRFRSKKEVYVESSSGSE  
HEDHLESWFGAGKEAKFRSKMRAGKEANNRARRHAKREACIDFMPGSIDVIKKESCFWPE  
ENANTFSRPMIKKEARARAMTKEEAKTKARARAKQEARSEEEALIGTWFWATDESSMADE  
ASIESSLQVEDESIIGSWFWTEEEASMTGASSKSRPRTDGERIGDSLFGAREKTSMTKG  
AEATSESI LAADDEQVIIGSWFWAGEEVNQEAEEETIFGSWFVVIDAASVESGVGVSCES

RTRSEEEVIGPWFSGEQVDIEAGIGEEARPGAEETIFGSWFWAENQTYMDCRAETSC  
DTMQGAEEEEPIIGSWFWTRVEACVEGDVNSKSSLEDKEEAMIPCFGAKEEVSMKHGTGV  
RCRFMAGAEETNNKSCFWAEKEPCMPYPAGGGSWKSREEEEDIVNSWFWSRKYTKPEAI  
GSLWATEESNIDGTGEKAKLLTEETIINSWFKEDAISEATDREESRPEAEGDIIG  
SWFWAGEEDRLEPAAETREEDRLAAEKEGIVGSWFGAREETIRREAGSCSKSSPKAEEEE  
VIIGSWFWEEEASPEAVAGVGFESKPGTEEEEITVGSWFWPEEEASIQAGSQAVEEMESE  
TEETIFGSWFWGKEVSEEAGPCCVSKPEDDEEMIVESWFWSRDKAIKETGTVATCESK  
PENEEGAIVGSWFEEAEVDNRTDNGSNCGSRTLADDEAIVGSWFWAGDEAHFESNPSP  
VFRAICRSTCSVEQEPDPSRRPQSWEEVTQFKPGPWGRVGFPSISPFREFPEAASLFCE  
MFGGKPRNMVLSPEGEDQESLLQPDQPSPEFPFYDPSYRSVQEIREHLRAKESTEPESS  
SCNCIQCELKIGSEEFEEELLLLMEKIRDPFIHEISKIAMGMRSASQFTRDFIRDSGVVSL  
IETLLNYPSSRVRTSFLNMIRMAPPYPNLNIIQTYICKVCEETLAYSVDSPEQLSGIRM  
IRHLTTTDTYHTLVANYMSGFLSLLATGNAKTRFHVLMKLLNLSENLFMTKELLSAEAVS  
EFIGLFNREETNDNIQIVLAIFENIGNNIKKETVFSDDDFNIEPLISAFHKVEKFAKELQ  
GKTDNQNDPEGDQEN

>sp|P01350|GAST\_HUMAN Gastrin OS=Homo sapiens GN=GAST PE=1 SV=1  
MQRLCVYVLIFALALAAFSEASWKPRSQPDAPLGTGANRDLELPWLEQQGPASHHRRQL  
GPQGPPHLVADPSKKQGPWLEEEAYGWMDFGRRSAEDEN

>sp|Q5T4J0|GCNT6\_HUMAN Beta-1,3-galactosyl-0-glycosyl-glycoprotein beta-1,6-N-  
acetylglucosaminyltransferase 6 OS=Homo sapiens GN=GCNT6 PE=3 SV=2  
MKVWSCYLCIITLQIIIVTVLYNVHVSQPDSGQIDDVGGYQALSRLHICDAALNGKTV  
QVLPSALSTMFGIDSCPYVLENHYITPLSTEEAAFPLAYVMTISQDFDTFEWLFWAII  
MPQNVYCIHVDKAATIDFKIAVSELLECFSNAFISSQSEYIIYGKSRLQADLACMRDLI  
ASTVQWRYVTNTGDHDFPLKTNREIVQYLKTMNWTNITPNLVSVLKSTERIKYTHREYRT  
RAHAFVLKHKHKKSPPPRQLKIHFSSSYVALTREFVHFALYNKIAIELLQRSQDTYSPDK  
HFWITLNNIPVEGTGPWILAVNSGSCQNRHICPRGLEFQQQYPVNSFGGNNCSIAAGTAA  
PREALGPFHLKAACSAHQNKWGFWNCYLHLK

>sp|Q9BZD3|GCOM2\_HUMAN Putative GRINL1B complex locus protein 2 OS=Homo sapiens GN=GCOM2  
PE=5 SV=2  
MCLLPRGFEPQAPEDLAQRSLVELREMLKLQERLLRNEKFICKLPDKGKKIFDSFAKLKA  
AIAECEEVRRKNELFHPVSLDCKLRQKAIAEVDVGTDKARNSDPILDSSLVPGCSSVDN  
IKSSQTSQNQGLGRPTLEGDEETSEVEYTVNKGPASSNRDRVPPSSEASEHHPQHRVSSQ  
AEDTSSSFDNLFIDRLQRITIIDQGEQQSEENASTKNLTGLSSGTQKKPHYMEVLEMRK  
NPGPQLRKFKTNVLPFRQNDSSSHCQKSGSPISSKERRRRDKQHLDDITAARLLPLHHMP  
TQLLSIEESLALQKQKQNYEEMQAKLAAQKLAERPNIKMRSYNPEGESSGRYREVRDED  
DDWSSDEF

>sp|Q9BSJ2|GCP2\_HUMAN Gamma-tubulin complex component 2 OS=Homo sapiens GN=TUBGCP2 PE=1  
SV=2  
MSEFRIHHDVNELLSLLRVHGGDAEVYIDLLQKNRTPYVTTTSAHSAKVKIAEFSRTP  
EDFLKKYDELKSKNTRNLDPLVYLLSKLTEDKETLQYLQQNAKERAELAAAAGSSTTSI  
NVPAASKISMQEELERKQLGSVATGSTLQQSLELKRKMLRDKQNKKNSGQHLPIFFAW  
VYERPALIGDFLIGAGISTDTALPIGTPLASQESAVVEDLLYVLVGVDGRYVSAQPLAG  
RQSRTFLVDPNLDLSIRELVHRILPVAASYSVTRFIEEKSSFYEQVNHAAAMRTL  
KEHLILVSQLEQLHRQGLLSLQKLWFYIQPAMRTMDILASLATSVDKGECLGGSTLSLLH

DRSFSYTGDSQAQELCLYLTKAASAPYFEVLEKWIYRGI IHPYSEFMVEEHELKERTIQ  
EDYNDKYWDQRYTIVQQQIPSLQKMADKILSTGKYLNVVRECGHDVTCPVAKEI IYTLK  
ERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQGDFVHFMDLAEELR  
KPVEDITPPRLEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLAETKQEKAM  
AHADPTTELALSGLEAFSFDYIVKWPLSLI INRKALTRYQMLFRHMFYCKHVERQLCSVWI  
SNKTAKQHSLHSAQWFAGAFTLRQRMNFVQNIQYYMMFEVMEPTWHILEKNLKSASNID  
DVLGHHTGFLDTCLKDCMLTNPELLKVFSKLSMVCVMFTNCMKFTQSMKLDGELGGQTL  
EHSTVLGLPAGAEERARKELARKHLAEHADTVQLVSGFEATINKFDKNFSAHLLDLLARL  
SIYSTSDCEHGMAVISRLDFNGFYTERLERLSAERSQKATPQVPVLRGPPAPAPRVAVT  
AQ

>sp|Q9UGJ1|GCP4\_HUMAN Gamma-tubulin complex component 4 OS=Homo sapiens GN=TUBGCP4 PE=1  
SV=1

MIHELLLALSGYPGSIFTWNKRSLQVSQDFPFLHPSETSVLNRLCRLGTDYIRFTEFIE  
QYTGHVQQQDHHSQGGGGLHGIYLRAFCTGLDSVLQPYRQALLDLEQEFGLGDPHLSIS  
HVNYFLDQFQLLFPSVMVVVEIKSQKIHGCGILETVYKHSCGLPPVRSALEKILAVCH  
GVMYKQLSAWMLHGLLLDQHEEFFIKQGPSSGNVSAQPEEDEEDLGIGGLTGKQLRELQD  
LRLIEENMLAPSLKQFSLRVEILPSYIPVRVAEKILFVGESVQMFENQNVNLTRKGSIL  
KNQEDTFAAELHRLKQQLFSLVDFEQVVDRIIRSTVAEHLWKLMEESDLLGQLKIIKDF  
YLLGRGELFQAFIDTAQHMLKTPPTAVTEHDVNVAFQQSAHKVLLDDNLLPLLHLTIEY  
HGKEHKADATQAREGPSRETSPREAPASGWAALGLSYKVQWPLHILFTPAVLEKYNVVF  
YLLSVRRVQAEQHCHWALQMRKHLKSNQTDAIKWRLRNHMAFLVDNLQYYLQVDVLESQ  
FSQLLHQINSTRDFESIRLAHDHFLSNLLAQSFILLKPVFHCLEILDLCHSFCSLVSQN  
LGPLDERGAAQSLILVKGFSRQSLLFKILSSVRNHQINSDLAQLLLRLDYNKYTTQAGG  
TLGSFGM

>sp|P23434|GCSH\_HUMAN Glycine cleavage system H protein, mitochondrial OS=Homo sapiens  
GN=GCSH PE=1 SV=2

MALRVRSVRALLCTLRVPSPAAPCPRPWQLGVGAVRTLRTGPALLSVRKFTKEHEWV  
TTENGIGTVGISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEV  
TEINEALAENPGLVNKSCYEDGWLIKMTLSNPSELDELMSEEAYEKYIKSIEE

>sp|Q9NXN4|GDAP2\_HUMAN Ganglioside-induced differentiation-associated protein 2 OS=Homo  
sapiens GN=GDAP2 PE=1 SV=1

MDPLGAPSQFVDVDTLPSWGDSCQDELNSSDTTAEIFQEDTVRSPFLYNKDVNGKVVLWK  
GDVALLNCTAIVNTSNESLTDKNPVSESI FMLAGPDLKEDLQKLGCRTGEAKLTKGFNL  
AARFI IHTVGPKYKSRYRTAAESSLYSCYRNVLQLAKEQSMSSVGFCVINSARGYPED  
ATHIALRTVRRFLEIHGETIEKVVFVAVSDLEEGTYQKLLPLYFPRSLKEENRSLPYLPAD  
IGNAEGEPVPPERQIRISEKPGAPEDNQEEDLGLVDLSFIGSHAFARMEGDIDKQRKL  
ILQGQLSEAAQLKQHQRNYNRWLCQARSEDLSDIASLKALYQTGVDNCGRTVMVVVGRNI  
PVTLIDMDKALLYFIHVMHIAVKEYVLVYFHTLTSEYNHLDSDFLKKLYDVVDVYKRN  
LKAVYFVHPTFRSKVSTWFFTTFSVSGLKDKIHHVDSLHQLFSAISPEQIDFPPFVLEYD  
ARENGPYTTSYPPSPDL

>sp|Q99988|GDF15\_HUMAN Growth/differentiation factor 15 OS=Homo sapiens GN=GDF15 PE=1  
SV=3

MPGQELRTVNGSQMLLVLLVLSWLPHGGLSLAEASRASFPGPSELHSEDSRFRELKRY  
EDLLTRLRANQSWEDSNTDLVPAPAVRILTPEVRLGSGGHLHLRISRALPEGLPEASRL

HRALFRLSPTASRSWDVTRPLRRQLSLARPQAPALHLRLSPPPSQDQLLAESSSARPQL  
ELHLRPQAARGRRRARARNGDHCPLGPGRCCLHTVRASLEDLGWADWVLSPREVQVTC  
IGACPSQFRAANMHAQIKTSLHRLKPDTVPAPCCVPASYNPMVLIQKTDGTGVSQTYYDL  
LAKDCHCI

>sp|P27539|GDF1\_HUMAN Embryonic growth/differentiation factor 1 OS=Homo sapiens GN=GDF1  
PE=1 SV=2

MPPPQQGPGCHLLLLLLLPSLPLTRAPVPPGPAAALLQALGLRDEPQGAPRLRPVPP  
VMWRLFRRRDPQETRSGSRRTSPGVTLQPCHEELGVAGNIVRHIPDRGAPTRASEPASA  
AGHCPEWTVVFDLSAVEPAERPSRARLELRFAAAAAAPEGGWELSAQAGQGAGADPGP  
VLLRQLVPALGPPVRAELLGAAWARNASWPSRLRLALALRPAPAACARLAEASLLVTL  
DPRLCHPLARPRDAEPVLGGGPGGACRARRLYVSFREVGHWRWVIAPRGFLANYCQGQC  
ALPVALS GSGGPPALNHAVLRALMHAAAPGAADLPCCVPARLSPISVLFFDNSDNVVL RQ  
YEDMVVDECGCR

>sp|Q6KF10|GDF6\_HUMAN Growth/differentiation factor 6 OS=Homo sapiens GN=GDF6 PE=1 SV=1

MDTPRVLLSAVFLISFLWDLPGFQQASISSSSSAELGSTKGMRSRKEGKMQRAPRSDA  
GREGQEPQPRPQDEPRAQQPRAQEPPGRGPRVVPHEYMLSIYRTYSIAEKLGINASFFQS  
SKSANTITSFVDRGLDDLSTPLRRQKYLFDVSMLSDKEELVGAELRLFRQAPSAPWGPP  
AGPLHVQLFPCLSPLLL DARTLDPQGAPPAGWEVFDVWQGLRHQPWKQLCLELRAAWGEL  
DAGEAEARARGPQQPPPPDLRSLGFGRRVRPPQERALLVVFTRSQRKNLFAEMREQLGSA  
EAAGPGAGAEGSWPPSPGAPDARPWLPSPGRRRRRTAFASRHGKRHGKKSRLRCSKKPLH  
VNFKELGWDDWIIAPLEYEAYHCEGVCDFPLRSHLEPTNHAI IQTLMNSMDPGSTPPSCC  
VPTKLTPI SILYIDAGNNVYKQYEDMVVESCGR

>sp|Q99819|GDIR3\_HUMAN Rho GDP-dissociation inhibitor 3 OS=Homo sapiens GN=ARHGDIG PE=1  
SV=2

MLGLDACELGAQLELLRLALCARVLLADKEGGPPAVDEVLDEAVPEYRAPGRKSLEIR  
QLDPDDRLAKYKRVLLGLPPAVDPSLPNVQVTRLTLLSEQAPGPVVMDLTGDLAVLKD  
QVFVLKEGVDIRVKISFKVHREIVSGLKCLHHTYRRGLRVDKTVYMGVSYGSAQEYEFV  
TPVEEAPRGALVRGPYLVVSLFTDDDRTHHLSWEWGLCICQDWKD

>sp|Q6W3E5|GDPD4\_HUMAN Glycerophosphodiester phosphodiesterase domain-containing protein  
4 OS=Homo sapiens GN=GDPD4 PE=2 SV=1

MLLFLWIETSSSEYFNFDWVTFGLTGYWFFWSIFILSLARILTAYSSLLLLLGFLLWERI  
ELYLHLCHKILILLVILLCVILMFIICKFWKERWL VAGLSMQIFAPYVHLVSITVMVILF  
WPVAFYVACLEREVMRRYRMTHSEKKRLKQCNVITRLRGLQVPVGLPFLILLGLYLMF  
LGIYSPCIQEKENLGPKPTIFGHRGAPMLGPENTMMSFEKAVEHGAHGLETDIHLSDHV  
PFLMHDFDLKRTTNIGEVQPESACENPAFFNWDFLSTLNAGKWFVKPELRPFYNMKPLSE  
ADKERARNQSIPTLADLLTAEKERKFVIFDLHRPPPKHPLRHTFVRQVVSILASKIEQ  
HLIFWLP AHDRQYVRVAPGFQHVGRVLSIETLAKNNISIINV DYKKLFPNGLRDYKAAN  
IHINVYTVNEPWFLSLAWCSRINSVTTDNIGLLSQLDHPHFFMTPKFYVFMWLLADIISV  
LFIVAIFCFHWRRETEKEKLFETSSTRDTQSGNLHIAMKPPVRVVEGPWTLAALYPALP  
KSGKEHQGHFNFAAPSKKLLPIKNAVTP LKPGKHEIQPPMPTVV FELTQAPTRQATSEAT  
FQTTLPTLKVDKPTMPSIEVPYP

>sp|Q9P278|FNIP2\_HUMAN Folliculin-interacting protein 2 OS=Homo sapiens GN=FNIP2 PE=1  
SV=2

MAPTLLQKLFNKRGS SSSAAASAQGRAPKEGPAFSWSCSEFDLNEIRLIVYQDCDRRGR

QVLFDSKAVQKIEEVTAQKTEDVPIKISAKCCQGSSSVSSSSSSSSSHSSSGGSSHAK  
EQLPKYQYTRPASDVNMLGEMMFSGSVAMSYKGSTLKIHYIRSPQLMISKVFSARMGSFC  
GSTNNLQDSFEYINQDNLGKLTNQNSLGPCTGNSLAHSTPVDMPSRGQNEHDRSGIA  
RSASLSSLLITPFPSPSSSTSSSSSYQRRWLSQTTSLENGIIPRRSTDETFSLAEETCS  
SNPAMVRRKKIAISIIIFSLCEKEEAQRNFQDFFFSHFPLFESHMNRKSAIEKAMISCRK  
IAESSLRVQFYVSRLMEALGEFRGTIWNLYSVPRIAEPVWLTMMSGTLEKNQLCQRFLKE  
FTLLIEQINKNQFFAALLTAVLTYHLAWVPTVMPVDHPPIKAFSEKRTSQSVNMLAKTHP  
YNPLWAQLGDLYGAIGSPVRLTRTVVVGKQKDLVQRILYVLTFLRCSELQENQLTWSGN  
HGEDQVLNGSKIITALEKGEVEESEYVITVRNEPALVPPILPPTAAERHNPWPTGFPE  
CPEGTDSRDLGLKPDKEANRRPEQGSEACSAGCLGPASDASWKPQNAFCGDEKNKEAPQD  
GSSRLPSCVLGAGMKMDQAVCELLKVEMPTRLPDRSVAWPCDRHLREKPSLEKVTFQ  
IGSFASPESDFESRMKKMEERVKACGPSLEASEAADVAQDPQVSRSPFKPGFQENVCCPQ  
NRLSEGDEGESDKGAEDRGSRNMAADIAGQLSHAADLTASHGAGGTGRRLEATRGL  
YVKAAGEPVLEPVAPRCVQRGPGVLVAGANIPCGDDNKKANFRTEGDI PRNESSDSALGDS  
DDEACASAMLDLGHGGDRTGGSLEVELPLPRSQSISTQNVNFRSLLAGYCPTYMPDLV  
LHGTGSDEKLGKCLVADLVHTVHHPVLDPIAEAVCI IADTDKWSVQVATSQRKVTDNMK  
LGQDVLVSSQVSSLLQSLQLYLHLPLADFCIMHLEDRLQEMYLKSMLSEYLRGHTRVH  
VKELGVVLGIESNDLPLLTAIASHTSPYVAQILL

>sp|075593|FOXH1\_HUMAN Forkhead box protein H1 OS=Homo sapiens GN=FOXH1 PE=1 SV=1

MGPCSGSRLGPPEAESPSQPPKRRKKRYLRHDKPPYTYLAMIALVIQAAPSRRLKLAQII  
RQVQAVFPFFREDYEGWKDSIRHNLSSNRCFRKVPKDPAPKPAKGNFWAVDVSLIPAEAL  
RLQNTALCRRWQNGGARGAFADLGPYVLHGRPYRPPSPPPPPSEGFSIKSLLGGSGEGA  
PWPGLAPQSSPVAGTNGSGEEAVPTPLPSSERPLWPLCPLPGPTRVEGETVQGAIGP  
STLSPEPRAWPLHLLQGTAVPGGRSSGGHRASLWGQLPTSYPITYTPNVVMPLAPPPTSC  
PQCPSTSPAYWGVAPETRGPPLGLCDLDALFQGVPPNKSIYDVWVSHPRDLAAPGPGWLL  
SWCSL

>sp|Q16595|FRDA\_HUMAN Frataxin, mitochondrial OS=Homo sapiens GN=FXN PE=1 SV=2

MWTLGRRVAVGLASPSPAQAQTLTRVPRPAELAPLCGRRLRTDIDATCTPRRASSNQR  
GLNQIWNVKKQSVYLMNLRKSGTLGHPGSLDETTYERLAEETLDSLAEFFEDLADKPYTF  
EDYDVSGSGVLTVKLGGDLGTYVINKQTPNKQIWLSSPSSGPKRYDWTGKNWVYSHDGV  
SLHELLAAELTKALKTKLDLSSLAYSGKDA

>sp|Q5SZK8|FREM2\_HUMAN FRAS1-related extracellular matrix protein 2 OS=Homo sapiens  
GN=FREM2 PE=1 SV=2

MHSAGTPGLSSRRTGNSTSFQPGPPPPRLLLLLLLLLSLVSRVPAQPAAFGRALLSPGL  
AGAAGVPAEEAIVLANRGLRVPGREVWLDPLHDLVLQVQPGDRCASVLDNDALAQRP  
RLSPKRFPDFGPGEVRYSHLGARSPSRDRVRLQLRYDAPGGAVVLPVLEVEVVFTQLE  
VVTRNLPLVVEELLGTSNALDARSLEFAFQPETEECRVGLSGLGALPRYGELLHYPQVP  
GGAREGGAPETLLMDCKAFQELGVRYRHTAASRSPNRDWIPMVVELRSRGAPVGSALKR  
EHFQVLVRIIRGAENTAPKPSFVAMMMMEVDQFVLTALTPDMLAAEDAESPDLIFNLT  
SPFQPGQGYLVSTDDRSPLSSFTQRDRLRLKIAQPPSESDQERLFELELEVVDLEGA  
ASDPFAFMVVVKPMNTMAPVVTRNTGLILYEGQSRPLTGAGSGPQNLVISDEDDLEAVR  
LEVAVGLRHGHLVILGASSGSSAPKSFTVAELAAGQVVYQHDDRDSLSNVLVLRMVDGG  
GRHQVQFLFPITLVVDDQPPVLNANTGLTLAEGETVPILPLSLSATMDSDSLLLFVL  
ESPFLTTHGHLRLQTHPPHEKQELLRGLWRKEGAFYERTVTEWQQQDITEGRLFYRHSGP



HSPGPVTDQFTFRVQDNHDPNPQSGLQRFVIRIHPVDRLPPELGSGCPLRMVVQESQLTP  
LRKKWLRYTDLDTDRELRYTVTQSPTDTDENHLPAPLGTLVLTDNPSVVVTHFTQAQIN  
HHKIAYRPPGQELGVATRVAQFQFQVEDRAGNVAPGTFTLYLHPVDNQPEILNTGFTIQ  
EKGHHILSETELHVNDVTDVAHISFTLTQAPKHGHRVSGQILHVGGFLHLEDIKQGRV  
SYAHNGDKSLTDSCSLEVSDRHHVVPITLRVNVRPVDDEVPILSHPTGTLESYLDVLENG  
ATEITANVIKGTNEETDDLMLTFLEDPPLYGEILVNGIPAEQFTQRDILEGSSVYTHTS  
GEIGLLPKADSFNLSLSDMSQEWIRIGGNTIQGVTIWVTILPVDSQAPEIFVGEQLIVMEG  
DKSVITSVHISAEDVDSLNDLILCTIVIQPTSGYVENISPAPGSEKSRAGIAISAFNLKD  
LRQGHINYYQSVHKGVPEVEDRFVFRCSGDNFSERQFPPIV I IPTNDEQPEMFREFMV  
MEGMSLVIDTPILNAADADVPLDDLTFITITQFPTHGHIMNQLINGTVLVESFTLDQIES  
SSIIYEHDDSETQEDSFVIKLDGKHSVEKTVLIIVIPVDDETPRMTINNGLEIEIGDTK  
IINNKLMDLSDSEKSLVYIIRYGPGHGLLQRRKPTGAFENITLGMNFTQDEVDRNLI  
QYVHLGGEGIRDLIKFDVTDGINPLIDRYFYVSIGSIDIVFPDVISKGVSLKEGGKVTLT  
TDLLSTDLNSPDENLVFTITRAPMRGHLECTDQPGVSITSFTQLQLAGNKIYYIHTADD  
EVKMSDFEFQVTDGRNPVFRTRFISISDVDNKKPVVTIHKLVVSESENKLITPFELTVED  
RDTDPKLLKFTITQVPIHGHLNFNTRPVMVFTKQDLNENLISYKHDGTESSDSFSFTV  
TDGHTDFYVFPDVFETRPPQVMKIQVLAVDNSVPQIAVNKGASTLRATGHLGFMIT  
SKILKVEDRDSLHISLRFIVTEAPQHGYLLNLDKGNHSITQFTQADIDDMKICYLREGA  
NATSDMFYFAVEDGGGNKLTYNFRLNWAWSFEKEYLVNEDSKFLDVVLKRRGYLGET  
SFISIGTRDRTAEKDKDFKGAQKQVQFNPGQTRATWRVRILSDGEHEQSETFQVVLSEP  
VLAALFPTVATVEIVDPGDEPTVFIPQSKYSVEEDVGELFPIRRSGDVSQELMVVCYT  
QQGTATGTVPTSVLSYSDYISRPEDHTSVVRFDKDEREKLCRIVIIDDSLYEEEETFHVL  
LSMPMGGRIGSEFPGAQVTIVPDKDDEPIFYFGDVEYSVDESAGYVEVQVWRTGTDLSKS  
SSVTVRSRKTDPADSADAGTDYVGISRNLDFAPGVNMQPVVRVILDDLGPALLEGIEKFEL  
VLRMPMNAALGEPKATVSINDSVSDLPKMQFKERIYTGSESDGQIVTMIHRTGDVQYRS  
SVRCYTRQGSAAQVMMDFEERPNTDTSIITFLPGETEKPCILELMDDVLYEEVEELRLVLG  
TPQSNPFGAAVGEQNETLIRIRDDADKTVIKFGETKFSVTEPKEPGESVVIRIPVIRQG  
DTSKVSIVRVHTKGSATSGEDYHPVSEEIEFKEGETQHVVEIEVTFDGVREMRFAFTVH  
LKPDENMIAEMQLTKAIVYIEEMSSMADVTFPSVPQIVSLLMYDDTSKAKESAEPMSGYP  
VICITACNPKYSDYDKTGSICASENINDTLTRYRWLISAPAGPDGVTSPMREVDFTFFT  
SSKMVTLDYSIYFQPGSRVQCAARAVNTNGDEGLELMSPIVTISREGLCQPRVPGVVGAE  
PFSAKLRYTGPEDADYTNLIKLVTPHIDGMLPVISTRELSNFELTSPDGT RVGNHCK  
SNLLDYTEVKTHYGFLTDATKNPEIIGETYPYQYSLSIRGSTTLRFYRNLEACLWEFV  
SYDMSSELLADCGGTIGTDGQVLNLVQSYVTLRVPLYVSYPVHSPVGVGGWQHFDLKSEL  
RLTFVYDTAILWNDGIGSPPEAELQGS LYPTSMRIGDEGLAVHFKTEAQFHGLFVLSHP  
ASFTSSVIMSADHPGLTFSLRLIRSEPTYNQPVQQWSFVSDFAVRDYSGTYTVKLPCTA  
PSHQEYRLPVTCNPREPVTFDLDIRFQQVSDPVAAEFSLNTQMYLLSKKSLWLSGSMGF  
GQESDVAFAEGDIIYGRVMVDPVQNLGDSFYCSIEKVFLCTGADGYVPKYSPMNAEYGCL  
ADSPSLLYRFKIVDKAQPETQATSFGNVLFNAKLAVDDPEAILLVNQP GSDGFKVDSTPL  
FQVALGREWYIHTIYTVRSKDNANRGIGKRSVEYHSLVSQGKPQSTTKSRKKREIRSTPS  
LAWEIGAENSRTNIQHIALDRTKRQIPHGRAPPDGILPWELNSPSSAVSLVTVVGTTV  
GLLTICLTVIAVLMCRGKESFRGKDAPKGSSSSEPMPVPPQSHHNSSEV

>sp|A6NGY1|FRG2C\_HUMAN Protein FRG2-like-2 OS=Homo sapiens GN=FRG2C PE=3 SV=1  
MGKGNEDPDLHCSSIQCSTDQPPFQQISFTEKGSDEKKPFKGGKTAFSHSSEKHTQRQA

GSDPNPNKENSEETKLKAGNSTAGSEPESSSYQENCRKRKISSKDICQDRAGNCPEEECN  
LTLNKKSRSSSTAVHNSEIQETCDAHHRGSSRACTGRSKRHRSRALVQTPSLRKS LVT SV  
RAMSEAVYQDLAQVWAQQIHSPLTCEQLTLLTRLRGPLCAQVQTLYSMATQAAYVFPAES  
WLVPATLPGPGDSALDREAHPPGQEITEPVSGSDEAKLGAP

>sp|P42685|FRK\_HUMAN Tyrosine-protein kinase FRK OS=Homo sapiens GN=FRK PE=1 SV=1

MSNICQRLWEYLEPYLPCLSTEADKSTVIENPGALCSPQSQRHGHYFVALFDYQARTAED  
LSFRAGDKLQVLDLHEGWWFARHLEKRRDGSSQQLQGYIPSNYVAEDRSLQAEPWFFGA  
IGRSDAEKQLLYSENKTGSFLIRESESQKGEFSLSVLDGAVVKHYRIKRLDEGGFFLTRR  
RIFSTLNEFVSHYTKTSDGLCVKLGKPCCLKIQVPAPFDLSYKTVDQWEIDRNSIQLLKRL  
GSGQFGEVWEGLWNNTTPVAVKTLKPGSMDPNDFLREAQIMKNLRHPKLIQLYAVCTLED  
PIYIITELMRHGSLQEYLQNDTGSKIHLTQQVDMAAQVASGMAYLESRNYIHRDLAARNV  
LVGEHNIYKVADFLARVFKVDNEDIYESRHEIKLPVKWTAPEAIRSNKFSIKSDVWSFG  
ILLYEIIITYGMPYSGMTGAQVIQMLAQNYRLPQPSNCPQQFYNIMLECWNAEPKERPTF  
ETLRWKLEDYFETDSSYSDANNFIR

>sp|A2A2Y4|FRMD3\_HUMAN FERM domain-containing protein 3 OS=Homo sapiens GN=FRMD3 PE=2  
SV=1

MFASCHCVPRGRTMKMIHFRSSSVKLSQEMRCTIRLLDDSEISCHIQRETKGQFLIDH  
ICNYYSLLEKDYFGIRYVDPEKQRHWLEPNKSIFKQMKTHPPYTMCFRVKFYPHEPLKIK  
EELTRYLLYLQIKRDI FHGRLLCSFSDAAYLGACIVQAE LGDYDPDEHPENYISEFEIFP  
KQSQKLERKIVEIHKNELRGQSPVPAEFNLLKAHTLETYGVDPHPCKDSTGTTTFLGFT  
AAGFVVFQGNKRIHLIKWPDVCKLKFEKTFYVIGTQKEKKAMLAFTSTPAACKHLWKC  
GVENQAFYKYAKSSQIKTVSSSKIFFKGSFRYSGKVAKEVVEASSKIQREPPEVHRANI  
TQSRSSHSLNKQLIINMEPLQLPLSPSEEEEEPLGEGVPLPKEENISAPLISSSPVKA  
AREYEDPPSEEDKIKEEPLTISELVYNPSASLLPTPVDDDEIDMLFDCPSRLELEREDT  
DSFEDLEADENAFLIAEEEEELKEARRALSWSYDILTGHIRVNPLVKSFSRLLVVGLGLLL  
FVFPLLLLLLESGLDLSFLCEIRQTPEFEQFHYYCPLKEWVAGKVHLILYMLGCS

>sp|Q5JV73|FRPD3\_HUMAN FERM and PDZ domain-containing protein 3 OS=Homo sapiens GN=FRMPD3  
PE=2 SV=2

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PIYGFVAGSERPVVRSVRPGGSENKLLAGDQIVAINEDVSEAPRERLIELIRSAK  
EFIVLTVLHTHQSPKSAFISAAKAKLRNPNVKVRFSEQVAVGETDAKMMKKEALLIPN  
VLKVFLENGQIKSFTFDGRTTVKDVMLTLQDRLSLRFIEHFALVLEYAGPEQNHKFLLLQ  
DKQPLAYVVQRTHYGMKCLFRISFFPKDPVELLRDPAAFEYLYIQSRNDVIRERFGMD  
PKPEMLLGLAALHIYITVSATRPSQKISLKNVEKEWGLEPFLPPSLLQVIKEKNLRKSLS  
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GISHVIDLKTNLTTVLSEFSKISKIQLFRENQGVARVETSIMDAKPLVLLMEWPEATNFA  
CLIAGYCRLLDSRKMVF SRPASQPLPPMIKADYMHSAHRPVTGGHLGKKESSYVGSVG  
TSPRKSSRCTPPPADSELVSFCYLMREQRKEQESRTDVNENLIFFEETRPRTKSDPTSK  
SSGQGYEVVPDDFDAASLDHEPCASRARSYTLDNSLGAEALNFYCDSCAKLQEQLGPRK  
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VQSSEQGRHLRGLLYDEIPVTLIDSVQTRTVRDHAQELDDALVSTLQALEALAASEDGPH  
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LLARKDLFPRIQSCAAQAVLTAPYSLGRPDNPSLQPIATGQSPGPPGARRKLPQSEGQV  
QGERTYSLAVHPALSPQLSEQKNLSLLSPVPEDKGP GHTRAGLEMSLRAATSSLSEEQVS

ELRDNLPEVRLSPKLILDPKSSVTPAIIISAALQQVVHNKSLVTAGGALGNPPSRGERRL  
EASMGPRPEVSMSSSASKNLKFKISPSAPETSWNSQHLGAEVSSSPRAPTGSRADSLHL  
SQQEDSLPVQNFPPKSYLLRTSRESVGKQATGEVAGKGGPVGGKPTLQKQGTISSQGEKA  
QLESTPKRSKLEETSLVPRATYPMALQSPSCQSRSHSPSCQPHGHSPSSQSRGQSPSCQP  
RGQSPLRSQAASRQVSTMPSRKLETTLNGAHSTSEGPAKPKSSRGPFRRLNLSATFPTR  
QKKETDERQAQLQVKVQYELEFLEELLKPPSQGELPGTEYLQPPAPGRCSQRLRSSPVQQ  
GPGMSREQRRSCDKRICRGGRPQATQTPVPSLRGRERDRVLPSSQRQPEAGPGVSLSSI  
NVQRIIRSTSLESRECRSDPESGVSLTTCASGGELGAPNYRKLMMRRYSISELDQGDRA  
LTSDVYPHPLGMLPREAKEVEASLPIALGPKSRSLSEPTLGDPSTVQVAPETKGRQMA  
VFSLPEEVYRKPAELDEDESSKCCSIRYCFYYRKCDMADDASDGKDELSYSIPMKILPG  
MKLDEQVVPVVSRTLQVLDAATCSSSSPEASRTQEIDLRVSTFEGSLAKINALRAHAYGL  
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VDKSPTHMLAAITGSFQVLSSLIETFVRLVFIVRSEAQRQELLAKVEEVVRNYTFLLRAA  
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>sp|Q9P0K9|FRS1L\_HUMAN DOMON domain-containing protein FRRS1L OS=Homo sapiens GN=FRRS1L  
PE=2 SV=2

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FYDLRYLSEEGYPFTAPPVDPFAKIKVDDCGKTKGCFRYGKPGCNAETCDYFLSYRMIG  
ADVEFELSADTDGWAVGFSSDKKMGDDVMACVHDDNGRVRIQHIFYNVGQWAKEIQRNP  
ARDEEGVFENNRVTCRFRPVNVPRDETIVDLHLSWYYLFAWGPAIQGSITRHDIDSPPA  
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>sp|Q9BT5|FSD1\_HUMAN Fibronectin type III and SPRY domain-containing protein 1 OS=Homo  
sapiens GN=FSD1 PE=1 SV=1

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LKEGMLMKIKQDRASRTYELQNQLAACTRALESSEELLETANQTLQAMDEDFPQAAKQI  
KDGVTMAPAFRLSLKAKVSDNMSHLMVDFAQERQMLQALKFLPVPSAPVIDLAESLVADN  
CVTLVWRMPDEDSKIDHYVLEYRRTNFEGPPRLKEDQPMVIEGIRQTEYTLTGLKFDMK  
YMNFRVKACNKAVAGEFSEPVLTETPAFMFRLDASTSHQNLRVDDLSEWDAMGGKVQDI  
KAREKDGGKRTASPINSPARGTSPKRMPSGRGGRDRFTAESYTVLGDTLIDGGEHYWEV  
RYEPDSKAFGVGVAYRSLGRFEQLGKTAASWCLHVNWLQVSFTAKHANKVKVLDAPVPD  
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>sp|Q5CZC0|FSIP2\_HUMAN Fibrous sheath-interacting protein 2 OS=Homo sapiens GN=FSIP2 PE=2  
SV=4

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GGYITSNNKVCTLRELNKYRYLTSLKLDNFERNYIKEQRILAKQLHNIPENNQIPQHCD  
VAQVQNWLLKEGTESIKDQERLMRHYLDNISRKLEQLERTAEQRLFLMDREERRQREH  
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YHLQKMQDTGFNGEDIGKNTFKYRGQDGTHASPKNKKKTSIEDIMLVYPAGDQNTYKETHG  
HTANAAHQQRNSSNNFTTKNSASVVYQADVQDNGINQKRDGMVSKNSSIFDDRGGINISG  
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IFSSPVYTNMQNLLQNCLQEKTSEELNIIIQNVMTWVAVTTSILYPAITKYEKRLQN  
NTYPVSDDSILSSDSSSFCSTCSEDFTYRSYTSATTKTQAEPCAFVVDTSVRRPTPIK  
PPPAHVEKTVVGKCHIKGQSIISKHKYNKTNLLYSYPKLRCKSDSHLLASFETGTKKS  
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LVAYIEEAINAILGYIQTELNNERTIIASEETVVLQLLEDILFQLHQEPVNESFQKSRQP  
RISSPSDTKEKYRLTGTRLSNSPRSGRPFPPINVPGMVLYSDDENEEIDNIVKNVLDSTF  
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VSEKPQGLSHQEWIDQMFSVSEISTVAQEITDSVLNILHKASNYISNTTKSSISSSVHQI  
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RKPKSATDSVDVQSILPNRQDKKSFHKYLATPCTHHSVNGGNHIKENAKLQVLERIGETL  
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RSPQREEVKTRSLKQWALEKTLNKIEVKLKEPHISPIAPIIRNINLNEIFQSTLINQLNVL  
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VQAILTNETFATSKVKSLFYSQVNFVTPVALPIQQDHSTLSKALSADKSYSDEQFSCCS  
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IVNALLDIIISRGKCDKNSSDKEIDLQKQGVIEKLLNETKYRKVLQLQIQDTIEGILCD  
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NIVLHNLSSAATLVINAKNPTSARLPLTFCDTFPKIDCQQPLKGSKTERKTERFSYSRNQ  
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DDKRSVKEICFNSKENSFNFSQLALSNEILLGHKEKERSTKQSLFTKYPLEQNQMILENKR  
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SEETLSNSKEHITAKSKYGFNPKHSLSSLPIYNTKTKDQISVGSSNQIVQEIVETVLNML  
ESFVDLQFKHISKYEFSEIVKMPIENLSSIQKLLNKKMLPKLQPLKMFSDKSESNTINF  
KENIQNILLRVHSFHSQLLTYAVNIIISDMLAVIKNKLDNEISQMEPSSISILKENIVASE

IIGTLMQCTYFNESLIQNLRSRESLFQGAENAYTVNQVELATNMKMFTSKLKEGSLGINP  
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VQDHRPRESNFGSFDQTMKGNSYLPEGSFLQKLLRKASDSTEAAKQVLSFIEMGKGENL  
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ISKQSSLSEVSGGQKDNESLLRMQDKKINYIPEEENENLEASREDSSFLQKLKKKEYPK  
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DDLQDLLVGVIVHLSKEIEVDYHFESNVRNKSFSMHRNNSVPLCNKINRQASPRDWQFS  
TQQIGQLFQKNKLSYLACKLNSLVGNLKTSESKEVVNKVFNIVSDLFSPDECLDTGMDSG  
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LHQEGIYAGVYSATFLEGIISELFFNLMSLWGKNKNITVSWLNEMNTLFVNNVNEFN  
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PFLSGEVLCHPRTPLDPVSTIVTQVLSEVIESHRPQKQSPLDIHLDSFVREIVARLLSKI  
FSPKHNTIELKNMTQRIVNSINRHFNKAKIHILYDDKEQAFFSFNTDIVDELATSVYRN  
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FQIHPDLIANLPFKSHSKLSANVLIQRVQYDISKSRFQRQASTMYTTMLSHSHLEKIVTQ  
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QSMVDSIYADLSHSNIYQSITDKKSSIDIPVSKIASFIIKEIFNHHIQSFLSEDKTLLL  
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DWSSTFFSFLNPDNITQRVQHLQNTFTQISRCAKENQLSLPDQSYKDTSTPDCKNMMS  
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DENKVGICTQKHSENVSKVTSTTVKSKDTQEPNLSETFNNNEIEKKRNLIPTDKKGKDD  
EIYTHFSLIIDDEYEKEVLGSDSEIGYKKKIDNARESSFKKDDKLFQLSSLKSKRNLT  
TTDTLEIRIRTSSNEGRDSTPTQTCRDEEHHSDYEHVQNVNIENIFEDVLELSSSEPAY  
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IKSEPSKPDPPQNQRESKPGIFPAKFLEDVITEMVKQLIFSSIPETQIQDRCQNVSDKQN  
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SSPYTIILPHKFLENVISALFSKIFSTISSTKTKEPEDNLSTELNFLQMKLVSAVATEIS  
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QVEEEVSNSSELVLEAVKIMEKVIKIIDELKSKEKSSSRKGLTLDAKLLSEVLALFLAKLI  
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RDSDEDEVVLTQTFAKEEGIKVFEDQVKEVKKPIQSKLSPKSTLSTSSLKKFLSLSKCCQ  
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LVTEPTHYFIHRIMSSSYNQEDLISSTGEAEDCHSDPSAKILEESSQEQKPEHGNSVKF  
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PAHQDEH

>sp|Q6MZW2|FSTL4\_HUMAN Follistatin-related protein 4 OS=Homo sapiens GN=FSTL4 PE=2 SV=3  
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LGKRITVIHSDKDFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLE  
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KIFMSYEEICPREKNATQPCQWVSAVNVNRNRYIYVAQPALSRVLVVDIQAQKVLQSIGV  
DPLPAKLSYDKSHDQVWVLSWGDVHKSRLSLQVITEASTGQSQHLIRTPFAGVDDFFIPP  
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EIQTLIDLQINSGISDLAFQRSFTESNQYNIYAALHTEPDLLFLELSTGKVGMLKNLKEP  
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EV

>sp|Q96A29|FUCT1\_HUMAN GDP-fucose transporter 1 OS=Homo sapiens GN=SLC35C1 PE=1 SV=1  
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YLLDSPSLRLDTPIFVTFYQCLVTLLCKGLSALAACCPGAVDFPSLRDLRVARSVLPL  
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LFLPLLLLGLGELQALRDFALQLSAHFWGMMTLGGLFGFAIGYVTGLQIKFTSPLTHNVSG  
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AMGV

>sp|P07954|FUMH\_HUMAN Fumarate hydratase, mitochondrial OS=Homo sapiens GN=FH PE=1 SV=3  
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KVPNDKYYGAQTVRSTMFKIGGVTERMPTPVKAFGILKRAAAEVNQDYGLDPKIANAI  
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NEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSA  
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>sp|Q8IVP5|FUND1\_HUMAN FUN14 domain-containing protein 1 OS=Homo sapiens GN=FUND1 PE=1  
SV=1  
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>sp|Q9UBA6|G8\_HUMAN Protein G8 OS=Homo sapiens GN=C6orf48 PE=4 SV=2  
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>sp|Q8NH3|GA2L2\_HUMAN GAS2-like protein 2 OS=Homo sapiens GN=GAS2L2 PE=1 SV=1  
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RELALPPDPSPAPPRRRQPCFHRNLDQMVQSLVSHCTCPVQFSMVKVSEGKYRVGDSNT  
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>sp|Q86XJ1|GA2L3\_HUMAN GAS2-like protein 3 OS=Homo sapiens GN=GAS2L3 PE=1 SV=1  
MQPAIQVWFGEDLPLSPRSPLTPRHGPLANVCQYDEWIAVRHEATLLPMQEDLSIWLSG  
LLGIKVKAEKLEELDNGVLLCQLIDVLQNMVKTCSSESGNFPMRKVPCKKDAASGSFF  
ARDNTANFLHWCRIQVDETYLFESEGLVLHKDPRQVYLCLLEIGRIVSRYGVEPPVLVK  
LEKEIELEETLLNTSGPEDSISIPKSCCRHEELHEAVKHIAEDPPCSCSHRFSIEYLSEG  
RYRLGDKILFIRMLHGKHMVVRVGGGWDTLQGFLLYDPCRILQFATLEQKILAFQKGV  
NESVPDSPARTPQPPEMNPLSAVNMFKQNSKSPVPSIPKSKEKQGRPPGALVPASSLK  
GGNLGSMVSRLPNSPAASSHPKLSKSGITKKPQAPSNNASSSLASLNPVGKNTSSPA  
LPRTAPCISESPRKCISSNTPKAKVIPAQNSADLPESTLLPNKCSGKTQPKYLKHNHIS  
SRDNAVSHLAHSNSSSKCPKLPKANIPVRPKPSFQSSAKMTKTSSKTIATGLGTQSQPS

DGAPQAKPVPAQKLKLSALNLNQPVSVSSVSPVKATQKSKDNIVSATKKQPQNKSAFQKT  
GPSSLKSPGRTPLSIVSLPQSSTKTQTAPKSAQTVAKSQHSTKGPPRSGKTPASIRKPPS  
SVKDADSGDKKPTAKKKEDDDHYFVMTGSKKPRK

>sp|P24522|GA45A\_HUMAN Growth arrest and DNA damage-inducible protein GADD45 alpha OS=Homo sapiens GN=GADD45A PE=1 SV=1

MTLEEFSAQEQTTERMDKVGDALEEVLSKALSQRTITVGVYEAAKLLNVDPDNVLCLLA  
ADEDDDRDRVALQIHFTLIQAFCCENDINILRVSNPGRLAELLLLLETDAGPAASEGAEQPP  
DLHCVLVTNPSSQWKDPALSQLICFCRESRYMDQWVPVINLPER

>sp|Q01415|GALK2\_HUMAN N-acetylgalactosamine kinase OS=Homo sapiens GN=GALK2 PE=1 SV=1

MATESPATRRVQVAEHPRLKLKEMFNSKFGSIPKFYVRAPGRVNIIGEHDYCGYSVLP  
MAVEQDVLI AVEPVKTYALQLANTNPLYPDFSTSANNIQIDKTKPLWHNYFLCGLKGIQE  
HFGLSNLTGMNCLVDGNIPPSSGLSSSSALVCCAGLVTLTVLGRNLSKVELAEICAKSER  
YIGTEGGGMDQSIISFLAEEGTAKLIEFSPLRATDVKLPSGAVFVIANSCEVMNKAATSHF  
NIRVMECRLAAKLLAKYKSLQWDKVLRL EEVQAKLGISLEEMLLVTEDALHPEPYNPEEI  
CRCLGISLEELRTQILSPNTQDVLIFKLYQRAKHVYSEAAARVLQFKKICEEAPENMVQLL  
GELMNQSHMSCRDMYECSCPELDQLVDICRKFAGQSRLTGAGWGGCTVSMVPADKLPSPF  
LANVHKAYYQRSDGSLAPEKQSLFATKPGGGALVLEA

>sp|O95257|GA45G\_HUMAN Growth arrest and DNA damage-inducible protein GADD45 gamma OS=Homo sapiens GN=GADD45G PE=1 SV=1

MTLEEVRGQDTVPESTARMQGAGKALHELLLSAQRQGCLTAGVYESAKVLNVDPDNVTFC  
VLAAGEEDEGDIALQIHFTLIQAFCCENDIDIVRVGDVQRLAAIVGAGEEAGAPGDLHCI  
LISNPNEAWKDPALEKLSLFCESRSVNDWVPSITLPE

>sp|Q6NT46|GAG2A\_HUMAN G antigen 2A OS=Homo sapiens GN=GAGE2A PE=1 SV=1

MSWRGRSTYRPRPRRYVEPPMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGQD  
EGASAGQGPKPEAHSQEQQHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|P62683|GAK21\_HUMAN Endogenous retrovirus group K member 21 Gag polyprotein OS=Homo sapiens GN=ERVK-21 PE=1 SV=2

MGQTKSKIISKYASYLSFIKILLKRGGVKVSTKNLIKLFQII EQFCPWFPEQGTLDLKD  
KRIGKELKQAGRKGNIIPLTVNDWAI IKAALFPQT EEDSISVSDAPGSCI IDCNENTR  
KKSQKETEGHLHCEYAAEPVMAQSTQNVQDYNQLQEVIYPETLKLKLGKPELVGPSESKPRG  
TSPLPAGQVPVTLQPQTQVKENKTQPPVAYQYWPPAELQYRPPPEQSYGYPMPPAPQGR  
APYPQPPTRRNLNPTAPPSRQGSSELHEI IDKSRKEGDTEAWQFPVMLEPMPPEGAGQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGNPSYMRLLDSIAHGRLIPYDWEILAKSSLLP  
SQFLQFKTWWIDGVQEQQVRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQSSKEPYPDFVARLQDVAQKSIADKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLLKKNCPVLNKQNTIQTATTGREPPDLCPCKKKGKHWSQCRSKFD  
KNGQPLSGNEQRGQPQAPQQTGAFFIQPFVPPQGFQGGQPPLSQVFQGISQLPQYNNCPPP  
QAAVQQ

>sp|P63126|GAK9\_HUMAN Endogenous retrovirus group K member 9 Gag polyprotein OS=Homo sapiens GN=ERVK-9 PE=1 SV=2

MGQTKSKIISKYASYLSFIKILLKRGGVKVSTKNLIKLFQII EQFCPWFPEQGTLDLKD  
KRIGKELKQAGRKGNIIPLTVNDWAI IKAALFPQT EEDSISVSDAPGSGI IDCNEKTR  
KKSQKETESLHCEYAAEPVMAQSTQNVQDYNQLQEVIYPETLKLKLGKPELVGPSESKPRG



TSPLPAGQVPVTLQPQKQVKENKTQPPVAYQYWPPAELQYRPPPEQYGYPGMPPAPQGR  
APYPQPPTRRNLNTAPPSRQGSSELHEIIDKSRKEGDTEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKILKDMKEGVKQYGPNSPYMRTLDSIAHGRLIPYDWEILAKSSLSP  
SQFLQFKTWIDGVQEQRNRNRAANPPVNIADQLLGIGQNWSTISQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCPVLNKQINITIQATTGREPPDLCPRCCKGKHWSQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIQPFVPQGFQGGQPPLSQVFQGISQLPQYNNCPPP  
QVAVQQ

>sp|014976|GAK\_HUMAN Cyclin-G-associated kinase OS=Homo sapiens GN=GAK PE=1 SV=2

MSLLQSALDFLAGPSLGGASGRDQSDFVGQTVELGELRLRVRRLAEGGFAFVYEAQDV  
GSGREYALKRLLSNEEEKNRAIIQEVCFMKKLSGHPNIVQFCSAASIGKEESDTGQAEFL  
LLTELCKGQLVEFLKKMESRGPLSCDITVLKIFYQTCRAVQHMRQKPPIIHRDLKVENLL  
LSNQGTIKLCDFGSATTISHYPDYSWSAQRRALVEEITRNTTPMYRTPEIIDLYSNFPI  
GEKQDIWALGCILYLLCFRQHPFEDGAKLRIVNGKYSIPPHDTQYTVFHSLIRAMLQVNP  
EERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLSRGPPPPVGPAGSGYSG  
GLALAEYDQPYGGFLDILRGGTERLFTNLKDTSSKVIQSVANYAKGDLDISYITSRIAVM  
SFPAEGVESALKNNIEDVRLFLDSKHGPHYAVYNLSPRTYRPSRFHNRVSECGWAARRAP  
HLHTLYNICRNMHAWLRQDHKNVCVHVMCDGRAASAVAVCSFLCFCRLFSTAEAAVYMF  
MKRCPPGIWPSHKRYIEYMCDMAEEPITPHSKPILVRVVMTPVPLFSKQSRSGCRPFCE  
VYVGDERVASTSQEYDKMRDFKIEDGKAVIPLGVTVQGDVLIVYHARSTLGGRLQAKMA  
SMKMFQIQFHTGFVPRNATTVKFAKYDLDACDIQEKYPDLFQVNLEVEVEPRDRPSREAP  
PWENSSMRGLNPKILFSSREEQQDILSKFGKPELPRQPGSTAQYDAGAGSPEAEPTSDS  
PPSSADASRFLHTLDWQEEKEAETGAENASSKESESALMEDRDESEVSDEGGSPISSEG  
QEPRADPEPPGLAAGLVQQDLVFEVETPAVLPEVPVQEDGVDLLGLHSEVGAGPAVPPQA  
CKAPSSNTDLLSCLLPPEAASQGPPEDLLSEDPLLLASPAPPLSVQSTPRGGPPAAADP  
FGPLLPSSGNNSQPCSNPDLFGEFLNSDSVTVPSPFSAHSAPPPSCSADFLHLGDLPG  
PSKMTASSNPDLGGWAAWTETAASAVAPTPATEGPLFSPGGQPAPCGSQASWTKSQNP  
DPFADLGLDSSGLQGSPAGFPFGFIKTKATTPKSSSWQTSRPPAQGASWPPQAKPPPK  
ACTQPRPNYASNFSVIGAREERGVRAPSFAQKPKVSENFEDLLSNQGFSSRSDDKKGPKT  
IAEMRKQDLAKDTPDKLKLDDWIEGKERNIRALLSTLHTVLWDGESRWTPVGMADLVAP  
EQVKKHYRAVLAVHPDKAAGQPYEQHAKMIFMELNDWSEFENQGSRLPF

>sp|Q96C23|GALM\_HUMAN Aldose 1-epimerase OS=Homo sapiens GN=GALM PE=1 SV=1

MASVTRAVFGELPSGGGTVEKFLQSDLLRVDIISWGCTITALEVKDRQGRASDVVLGFA  
ELEGYLQKQPYFGAVIGRVANRIAKGTFKVDGKEYHLAINKEPNSLHGGVGRGDKVLWTP  
RVLSNGVQFSRISPDGEEGYGELKVWVTYTLDDGELIVNYRAQASQATPVNLTNHSYFN  
LAGQASPNINDHEVTIEADTYLPVDETLIPTGEVAPVQGTAFDLRKPVELGKHLQDFHLN  
GFDHNFCLKGSKEKHFCARVHHAASGRVLEVYTTQPGVQFYTGNFLDGTLKGKNGAVYPK  
HSGFCLETQNWPDVNPQPRFPVLLRPGEEYDHTTWFKFSVA

>sp|Q14353|GAMT\_HUMAN Guanidinoacetate N-methyltransferase OS=Homo sapiens GN=GAMT PE=1 SV=1

MSAPSATPIFAPGENCSPAAGAAAPAYDAADTHLRILGKPMERWETPYMHAAAAASSK  
GGRVLEVGFMAIAASKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDV  
APTLPDGHFDGILYDTYPLSEETWHTHQFNFIKNHAFRLKPGGVLTTCNLTSWGELMKS

KYSDITIMFEETQVPALLEAGFRRENIRTEVMALVPPADCRYYAFPQMITPLVTKG

>sp|Q9H227|GBA3\_HUMAN Cytosolic beta-glucosidase OS=Homo sapiens GN=GBA3 PE=1 SV=2

MAFPAGFGWAAATAAYQVEGGWDADGKGPCVWDTFTHQGGERVFNKQTDVACGSYTLWE  
EDLKCIKQLGLTHYRFSLSWSRLLPDGTGFINQKGIDYNNKIIDDLLKNGVTPIVTLYH  
FDLPQTLEDQGGWLSEAIIESFDKYAQFCSTFGDRVQWITINEANVLSVMSYDLGMFP  
PGIPHFGTGGYQAAHNLIAHARSWSYDSLFRKKQKGMVSLSLFAVWLEPADPNSVSDQ  
EAAKRAITFHLDLFAKPIFIDGDYPEVVKSQIASMSQKQGYPSRLPEFTEEEKMKIKGT  
ADFFAVQYYTTRLIKYQENKKGELGILQDAEIEFFPDPSWKNVDWIYVVPWGVCKLLKYI  
KDTYNNPVIYITENGFPQSDPAPLDDTQRWEYFRQTFQELFKAIQLDKVNLQVYCAWSLL  
DNFEWNQGYSSRFGLFHVDFFDPRPRVPYSAKEYAKIIRNNGLEAHL

>sp|P62873|GBB1\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1  
OS=Homo sapiens GN=GNB1 PE=1 SV=3

MSELDQLRQEAQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTLRGHLAKIYA  
MHWGTSRLLVSASQDGKLI IWDSYTTNKVHAIPLRSSWVMTCAYAPSGNYVACGGLDNI  
CSIYNLKTREGNVRVSRELAGHTGYLSCCRFLDDNQIVTSSGDTTCALWDIETGQQTTTF  
TGHTGDVMSLSLAPDTRLFVSGACDASAKLWDVREGMCRQTFTGHESDINAICFFPNGNA  
FATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSKSGRLLLAGYDDFNCNVWDAL  
KADRAGVLAGHDNRVSLGVTDDGMAVATGSWDSFLKIWN

>sp|Q9HAV0|GBB4\_HUMAN Guanine nucleotide-binding protein subunit beta-4 OS=Homo sapiens  
GN=GNB4 PE=1 SV=3

MSELEQLRQEAQLRNQIQDARKACNDATLVQITSNMDSVGRIQMRTRRTLRGHLAKIYA  
MHWGYDSRLLVSASQDGKLI IWDSYTTNKMHAIPLRSSWVMTCAYAPSGNYVACGGLDNI  
CSIYNLKTREGNVRVSRELPGHTGYLSCCRFLDDSQIVTSSGDTTCALWDIETAQQTTTF  
TGHSGDVMSLSLSPDMRTFVSGACDASSKLWDIRDGMCRQSFTGHVSDINAVSFFPNGYA  
FATGSDDATCRLFDLRADQELLYSHDNIICGITSVAFSKSGRLLLAGYDDFNCNVWDTL  
KGDRAGVLAGHDNRVSLGVTDDGMAVATGSWDSFLRIWN

>sp|P50150|GBG4\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4  
OS=Homo sapiens GN=GNG4 PE=1 SV=1

MKEGMSNNSTTSISQARKAVEQLKMEACMDRVKVSQAAADLLAYCEAHVREDPLIIPVPA  
SENPFREKKFFCTIL

>sp|P14867|GBRA1\_HUMAN Gamma-aminobutyric acid receptor subunit alpha-1 OS=Homo sapiens  
GN=GABRA1 PE=1 SV=3

MRKSPGLSDCLWAWILLSTLTGRSYGQPSLQDELKDNTTVFTRILDRLLDGYDNRLRPG  
LGERVTEVKTDIFVTSFGPVSDHMEYTDVFFRQSWKDERLKFKGPMTVLRLNNLMASK  
IWTPTDFFHNGKKSVAHNMTMPNKLRLITEDGTLTYMRLTVRAECPMHLEDFPMDAHAC  
PLKFGSYAYTRAEVVYEWTPREPARSVVAEDGSRLNQYDLLGQTVDSGIVQSSTGEYVVM  
TTHFHLKRKIGYFVIQTYLPCIMTVILSQVSFWLNRESVPARTVFGVTVLTMTLSISA  
RNSLPKVAYATAMDWFIACVAFVFSALIEFATVNYFTKRGYAWDGKSVVPEKPKVKVDP  
LIKKNNTYAPTATSYTPNLARGDPGLATIAKSATIEPKVKPETKPEPKKTFNSVSKID  
RLSRIAFPLLFGIFNLVYWATYLNREPQLKAPTPHQ

>sp|Q16445|GBRA6\_HUMAN Gamma-aminobutyric acid receptor subunit alpha-6 OS=Homo sapiens  
GN=GABRA6 PE=2 SV=2

MASSLPWLCIILWLENALGKLEVEGNFYSENVSRIILDNLLEGYDNRLRPGFGGAVTEVKT  
DIYVTSFGPVSDVEMEYTMDFVFRQWTWDERLKFGGPTEILSLNNLMVSKIWTPTDFFRN

GKKSIAHNMTTPNKLFRIMQNGTILYTMRLTINADCPMRLVNFPMDGHACPLKFGSYAYP  
KSEIIYTWKKGPLYSVEVPEESSLLQYDLIGQTVSSETIKSNTGEYVIMTVYFHLQRKM  
GYFMIQIYTPCIMTVILSQVSFWINKESVPARTVFGITTVLMTTLSISARHSLPKVSYA  
TAMDFIAVCFAFVFSALIEFAAVNYFTNLQTQAKRKAQFAAPPTVTISKATEPLEAEI  
VLHPDSKYHLKKRITSLSLPIVSSSEANKVLTRAPILQSTPVTTPPLSPAFGGTSKIDQY  
SRILFPVAFAGFNLVYWVYLSKDTMEVSSSVE

>sp|Q8IWJ2|GCC2\_HUMAN GRIP and coiled-coil domain-containing protein 2 OS=Homo sapiens  
GN=GCC2 PE=1 SV=4

MEDLVQDGVASPATPGTGSKLETLPKEDLIKFAKKQMMLIQKAKSRCTELEKEIEELRS  
KPVTEGTGDIKALTERLDALLEKAETEQQCLSLKKENIKMKQEVEDSVTKMGDAHKEL  
EQSHINYVKEIENLKNELMAVRSKYSEDKANLQKQLEEAMNTQLELSEQLKFQNNSEDNV  
KKLQEEIEKIRPGFEEQILYLQKQLDATTDEKKETVTQLQNIIEANSQHYQKNINSLQEE  
LLQLKAHQEEVKELMCQIEASAKEHEAEINKLNELKENLVKQCEASEKNIQKKYECLE  
NLRKATSNANQDNQICSILLQENTFVEQVVNEKVHLEDTLKELESQHSILKDEVTYMNN  
LKLKLEMDAQHIKDEFFHEREDLEFKINELLAKEEQGCVIEKLKSELAGLNKQFCYTV  
QHNREVQSLKEHQKEISELNETFLSDSEKEKLTLMFEIQGLKEQCENLQKEKQEAILNY  
ESLREIMEILQTELGESAGKISQEFESMKQQQASDVHELQKQLRTAFTEKDALLETVNRL  
QGENEKLLSQELVPELENTIKNLQEKNGVYLLSLSQRDTMLKELEGKINSLTEEKDDFI  
NKLKNSHEEMDNFHKCEREERLILELGKKVEQTIQYNSELEQKVNELTGGLEETLKEKD  
QNDQKLEKLMVQMKVLSQEDKEVLSAEVKSLEYENNKLSEKKQLSRDLEVFLSQKEDVIL  
KEHITQLEKKLQLMVEEQDNLKLLENEQVQKLFVKTQLYGLKEMGSEVSEDSEKDVV  
NVLQAVGESLAKINEEKNLAFQRDEKVVLEKEIKCLQEEVSVQCEELKSLLRDYEQEK  
VLLRKELEEIQSEKEALQSDLLEMKNANEKTRLENQNLLIQVEEVSVQTSKSEIHNEKEK  
CFIKEHENLKPILLEQKELDRRAELILLKDSLAKSPSVKNDPLSSVKELEEKIENLEKEC  
KEKEEKINKIKLVAVKAKKELSSRKETQTVKEELESRLSEKQLSASMRDLIQGAESYK  
NLLLEYEKQSEQLDVEKERANNFEHRIEDLTRQLRNSTLQCETINSDNEDLLARIETLQS  
NAKLLLEVQILEVQRAKAMVDKELEAEKLQKEQKIKEHATTVNELEELQVQLQKQKQLQK  
TMQELELVKKDAQQTTLMNMEIADYERLMKELNQKLTNKNKIEDLEQEIQKQKQETL  
QEEITSLSQSSVQYEEKNTKIKQLLVKTKKELADSKQAETDHLILQASLKGELEASQQQV  
EVYKIQLAEITSEKHKIHEHLKTSAEQHRTLSAYQQRVTALQEECRAAKAEQATVTSEF  
ESYKVRVHNVLKQKQKNSMSQAETEGAKQEREHLEMLIDQLKIKLQDSQNNLQINVSELQ  
TLQSEHDTLLERHNKMLQETVSKEAELREKLCSIQSENMMKSEHTQTVSQLTSQNEVLR  
NSFRDQVRHLQEEHRKTVETLQQQLSKMEAQLFQLKNEPTTRSPVSSQQSLKNLRERRNT  
DLPLDMHTVTREEGEGMETTDTESVSSASTYTSLEQLLNSPETKLEPPLWHAFTKEE  
LVQKLSSTTKSADHLNGLLRETEATNAILMEQIKLLKSEIRRLERNQEREKSAANLEYLK  
NVLLQFIFLKPGRSERERLLPVINTMLQLSPEEKGLAABAQGEENASRSSGWASYLHSW  
SGLR

>sp|Q92616|GCN1\_HUMAN eIF-2-alpha kinase activator GCN1 OS=Homo sapiens GN=GCN1 PE=1 SV=6

MAADTQVSETLKRFAKVTTASVKERREILSELGKCVAGKDLPEGAVKGLCKLFLCTLHR  
YRDAASRRALQAAIQQLAEAQPEATAKNLLHSLQSSGIGSKAGVPSKSSGSAALLALTWT  
CLLVRIVFPSRAKRQGDIWNKLVEVQCLLLLEVLGGSHKHAVDGAVKKLTKLWKENPGLV  
EQYLSAILSLEPNQNYAGMLGLLVQFCTSHKEMDVVSQHKSAALLDFYMKNILMSKVPPK  
YLLDSCAPLLRYLSHSEFKDLILPTIQKSLLRSPENVIETISSLLASVTLDLQYAMDIV  
KGLAGHLKSNPRLMDEAVLALRNLARQCSDSSAMESLTKHLFAILGGSEGKLTVAQKM

SVLSGIGSVSHHVSGPSSQVLNGIVAELFIPFLQQEVHEGTLVHAVSVLALWCNRFTME  
VPKKLTEWFKKAFSLKTSTSAVRHAYLQCMLASYRGDTLLQALDLLPLLIQTVEKAASQS  
TQVPTITEGVAAALLLLKLSVADSQAQAKLSSFWQLIVDEKKQVFTSEKFLVMASEDALC  
TVLHLTERLFLDHPHRLTGKVKQYHRALVAVLLSRTWHVRRQAQQTVRKLLSSLGGFKL  
AHGLLEELKTVLSSHKVLPLEALVTDAGEVTEAGKAYVPPRVLQEALCVISGVPGLKGDV  
TDTEQLAQEMLIISSHPSLVAVQSGLWPALLARMKIDPEAFITRHLDDQIIPRMTTQSPLN  
QSSMNAMGSLSVLSPDRVLPQLISTITASVQNPALRLVTREEFAIMQTPAGELYDKSIIQ  
SAQQDSIKKANMKRENKAYSFKEQIIIELELKEEIKKKKGIKEEVQLTSKQKEMLQAQLDR  
EAQVRRRLQELDGELEAALGLLDIILAKNPSTGLTQYIPVLVDSFLPLLSPLAAPRIKNP  
FLSLAACVMPSRLKALGTLVSHVTLRLKPECVLDKSWCQEELSVAVKRAVMLLHHTHTIT  
SRVGKGEPGAAPLSAPAFSLVFPFLKMLVTEMPHHSEEEEWMAQILQILTVQAQLRASP  
NTPPGRVDENGPELLPRVAMRLLLTWVIGTGPRLQVLASDTLTTLCASSSGDDGCAFAE  
QEEVDVLLCALQSPCASVRETVLRGLMELHMLPAPDTDEKGNLNLRLWVVKFDKEEE  
IRKLAERLWSMGLDLQPDLCSLIIDVYIHEAAVRQAGAEALSQAVARYQRQAAEVMGR  
LMEIYQEKLYRPPVLDALGRVISESPDQWEARGLALALNKLQYLDSSQVKPLFQFF  
VPDALNDRHPDVRKMLDAALATLNTHGKENVNSLLPVFEEFLKNAPNDASYDAVRQSVV  
VLMGSLAKHLDKSDPKVKPIVAKLIAALSTPSQQVQESVASCLPPLVPAIKEDAGGMIQR  
LMQQLLESDKYAERKGAAYGLAGLVKGLGILSLKQEMMAALTDAIQDKKNFRRREGALF  
AFEMLCMTLGLKFEPYVVHVLPHLLLFCGDGNQYVREAADDCAKAVMSNLSAHGVKLVLP  
SLLAALEEEESWRTKAGSVELLGAMAYCAPKQLSSCLPNIVPKLTEVLTDSHVKVQKAGQQ  
ALRQIGSVIRNPEILAIAPVLLDALTDPSRKTQKCLQTLTDFVHFIDAPSLALIMPIV  
QRAFQDRSTDTRKMAAQIIGNMYSLTDQKDLAPYLPSTPGLKASLLDPVPEVRTVSAKA  
LGAMVKMGESCFEDLLPWLMTLTYEQSSVDRSGAAQGLAEVMAGLGVEKLEKLMPEIV  
ATASKVDIAPHVRDGYIMMFNYLPITFGDKFTPYVGPIIPCILKALADENEFVRDTALRA  
GQRVISMYAETAIALLLPQLEQGLFDDLWRIRFSSVQLLDLLFHISGVTGKMTTETASE  
DDNFGTAQSNKAIITAGVERRNRVLAGLYMGRSDTQLVVRQASLHVWKIVVSNTPRTL  
EILPTLFGLLLGLASTCADKRTIAARTLGDVLRKLGEKILPEIIPILEEGLRSQKSDER  
QGVCIGLSEIMKSTSRDAVLYFSESLVPTARKALCDPLEEVREAAKTFEQLHSTIGHQA  
LEDILPFLKQLDDEEVSEFALDGLKQVMAIKSRVLPYLVPKLTTPPVNTRVLAFSSV  
AGDALTRHLGVILPAVMLALKEKLGTPDEQLEMANCQAVILSVEDDTGHRIIIEYLLEAT  
RSPEVGMRAAAIILNIYCSRSKADYTSHLRSLVSGLIRLFNDSSPVVLEESWDALNAIT  
KKLDAGNQLALIEELHKEIRLIGNESKGEHVPGFCLPKKGVTSLPVLREGVLTGSPEQK  
EEAAKALGLVIRLTSADALRPSVVSITGPLIRILGDRFSWNVKAALLETL SLLAKVGIA  
LKPFLPQLQTTFTKALQDSNRGVRLKAADALGKLISIHIVDPLFTELLNGIRAMEDPGV  
RDTMLQALRFVIQGAGAKVDAVIRKNIVSLLSMLGHDEDNTRISSAGCLGELCAFLTEE  
ELSAVLQQCLLADVSGIDWMVRHGRSLALSVAVNVAPGRLCAGRYSSDVQEMILSSATAD  
RIPIAVSGVRGMGLMRHHIETGGGQLPAKLSSLFVKCLQNPSSDIRLVAEKMIWVANKD  
PLPPLDPQAIKPIKALLDNTKDKNTVVRAYSDAQIAVNLLKMRQGEEVFQSLSKILDVAS  
LEVLNEVNRRSLKKLASQADSTEQVDDTILT

>sp|Q02742|GCNT1\_HUMAN           Beta-1,3-galactosyl-0-glycosyl-glycoprotein           beta-1,6-N-  
acetylglucosaminyltransferase OS=Homo sapiens GN=GCNT1 PE=1 SV=2  
MLRTLRLRRRLFSYPTKYFVMVLVSLITFSVLRIHQKPEFVSVRHLELAGENPSSDINCT  
KVLQGDVNEIQVKLEILTVKFKRPRWTPDDYINMTSDCSSFIKRRKYIVEPLSKEEAE  
FPIAYSIVVHHKIEMLDRLLRAIYMPQNFYCIHVDTKSEDSYLAAVMGIASCFNSNVFVAS

RLESVYASWSRVQADLNCMKDLYAMSANWKYLINLCGMDFPIKTNLEIVRKLKLLMGEN  
NLETERMP SHKEERWKKRYEVVNGKLTNTGTVKMLPPLETPLFSGSAYFVVSREYVGYVL  
QNEKIQKLMEWAQDTYSTPEYLWATIQRIPVPGSLPASHKYDLSDMQAVARFVKWQYFE  
GDVSKGAPYPGCDGVHRSVCIFGAGDLNWMLRKHHLFANKFDVDVDFAIQCLDEHLRH  
KAETLKH

>sp|P23378|GCSP\_HUMAN Glycine dehydrogenase (decarboxylating), mitochondrial OS=Homo sapiens GN=GLDC PE=1 SV=2

MQSCARAWGLRLGRGVGGRRLAGGSGPCWAPSRDSSSGGDSAAAGASRLLERLLPRH  
DDFARRHIGPGDKDQREMLQTLGLASIDELIEKTVPANIRLKRPLKMEDPVCENEILATL  
HAISSKNQIWRSYIGMGYYNCSVPQTILRNLENLGSWITQYTPYQPEVSQGRLESLLNYQ  
TMVCDITGLDMANASLLDEGTAAAEALQLCYRHNKRRKFLVDPRCHPQTIAVVQTRAKYT  
GVLTELKLPCEMDFSGKDVSGVLFQYPDTEGKVEDFTELVERAHQSGSLACCATDLLALC  
ILRPPGEFGVDIALGSSQRFVPLGYGGPHAAFFAVRESLVRMMPGRMVGVTTRDATGKEV  
YRLALQTREQHRRDKATSNICTAQALLANMAAMFAIYHGSHGLEHIARRVHNATLILSE  
GLKRAGHQLQHDLFDTLKIQCSCSVKEVLGRAAQRQINFRLFEDGTGLISLDETVEKD  
LDDLWIFGCESSAELVAESMGEECRGIPGSVFKRTSPFLTHQVFNSYHSETNIVRYMKK  
LENKDISLVHSMIPLGSCMTKLNSSSELAPITWKEFANIHPFVPLDQAQGYQLFRELEK  
DLCELTYGDQVCFQPNLSGAQGEYAGLATIRAYLNQKGEHRTVCLIPKSAHGTPASAHM  
AGMKIQPVEVDKYGNIDAVHLKAMVDKHKENLAAIMITYPSTNGVFEENISDVCDLIHQH  
GGQVYLDGANMNAQVGICRPGDFGSDVSHLNLHKTFCIPHGGGGPGMGPIGVKKHLAPFL  
PNHPVISLKRNEACPVGTVAAPWGSSILPISWAYIKMMGGKGLKQATETAILNANYM  
AKRLETHYRILFRGARGYVGHEFILDTRPFKKSANIEAVDVAKRLQDYG FHAPTMSWPVA  
GTLMEPTESDKAELDRFCDAMISIRQEIADIEEGRIDPRVNPLKMSPHSLTCVTSSHW  
DRPYSREVAAPFLPFVKPENKFWPTIARIDDIYGDQHLVCTCPPMEVYESPFSEQKRASS

>sp|Q7L622|G2E3\_HUMAN G2/M phase-specific E3 ubiquitin-protein ligase OS=Homo sapiens GN=G2E3 PE=1 SV=1

MNESKPGDSQNLACVFCRKHDDCPNKYGEKKTKKWNLTVHYCYLLMSSGIWQRGKEEEG  
VYGFLIEDIRKEVNRASKLKCCVCKNGASIGCVAPRCKRSYHFPCGLQRECIFQFTGNF  
ASFCDWHRPVQIITSNNYRESLPCTICLEFIEPIPSYNILRSPCKNAWFHRDCLQVQAI  
NAGVFFFRCTICNNSDIFQKEMLRMGIHIPEKDASWELEENAYQELLQHYERC DVRRCRC  
KEGRDYNAPDSKWEIKRCQCCGSSGTHLACSSLSRWEQNWECECRGIIYNSGEFQKAKK  
HVLPSNNVGITDCLLEESSPKLPRQSPGSQSKDLLRQGSKFRRNVSTLLIELGFQIKKK  
TKRLYINKANIWNSALDAFRNRNFNP SYAIEVAYVIENDNFGSEHPGSKQEFLSLLMQHL  
ENSSLFEGSLSKNLSLSQALKENLYYEAGKMLAISLVHGGPSPGFFSKTLFNCLVYGPE  
NTQPIILDDVSDFDVAQIIIRINTATTVADLKSINECYNYLELIGCLRLITLSDKYMLV  
KDILGYHVIQRVHTPFESFKQGLKTLGVLEKIQAYPEAFCSILCHKPESLSAKILSELFT  
VHTLPDVKALGFWN SYLQAVEDGKSTTTMEDILIFATGCSSIPPAGFKPTPSIECLHVDF  
PVGKNCNNCLAIPITNTYKEFQENMDFTIRNTRLRLEKEESSHYIGH

>sp|Q9BUM1|G6PC3\_HUMAN Glucose-6-phosphatase 3 OS=Homo sapiens GN=G6PC3 PE=1 SV=2

MESTLGAGIVIAEALQNQLAWLENVWLWITFLGDPKILFLFYFPAAYASRRVGIAVLWI  
SLITEWLNLIKWFVFGDRPFWVHESGYYSQAPQVHQFPSSCETGPGSPSGHCOMITGA  
ALWPIMTALSSQVATRARSRWVRMPSLAYCTFLLAVGLSRIFILAHFPHQVLAGLITGA  
VLGWLMTPRVPMERELSFYGLTALALMLGTS LIYWTFLTLGLDLSWSISLAFKWCERPEW  
IHVDSRPFASLSRDSGAALGLGIALHSPCYAQVRRQLGNGQKIACLVLAMGLLGPLDWL

GHPPQISLFYIFNFLKYTLWPCLVLALVPWAVHMFSAQEAPPIHSS

>sp|095479|G6PE\_HUMAN GDH/6PGL endoplasmic bifunctional protein OS=Homo sapiens GN=H6PD  
PE=1 SV=2

MWNMLIVAMCLALLGCLQAQELQGHVSIILLGATGDLAKKYLWQGLFQLYLDEAGRHSF  
SFHGAALTAPKQGQELMAKALESLSCKDMAPSHCAEHKDQFLQLSQYRQLKTAEDYQAL  
NKDIEAQLQHAGLREAGRIFYFSVPPFAYEDIARNINSSCRPGPGAWLRVVLEKPFQHDH  
FSAQQLATELGTFFQEEEMYRVDHYLGKQAVAILPFRDQNRKALDGLWNRHHVERVEII  
MKETVDAEGRTSFYEEYGVIRDVLQNLTEVLTIVAMELPHNVSSAEAVLRHKLQVFQAL  
RGLQRGSAAVVGQYQSYSEQVRRELQKPDSEHSLTPTFAAVLVHIDNLRWEGVPPFILMSGK  
ALDERVGYARILFKNQACCVQSEKHAAAAQSQCLPRQLVFHGHGDLGSPAVLVSRNLFR  
PSLPSSWKEMEGPGLRFLGSPSLSDYYAYSPVRERDAHSVLLSHIFHGRKNFFITTENLL  
ASWNFWTPLLES LAHKAPRLYPGAENGRLDDEFSSGRLFFSQQPEQLVPGPGAPMP  
SDFQVLRKYRESPLVSAWSEELISKLANDIEATAVRVRRFGQFHLALSGGSSPVALFQ  
QLATAHYGFPWAHTHLWLVDERCVPVSDPESNFQGLQAHLLQHVRIPYYNIHPMPVHLQQ  
RLCAEEDQGAQIYAREISALVANSSFDLVLLGMGADGHTASLFPQSPTGLDGEQLVLT  
SPSQPHRRMSLSLPLINRAKKVAVLMGRMKREITTLVSRVGHEPKKWPISGVLP HSGQL  
VWYMDYDAFLG

>sp|Q9BW5|GATA5\_HUMAN Transcription factor GATA-5 OS=Homo sapiens GN=GATA5 PE=1 SV=1

MYQSLALAASPRQAAAYADSGSFLHAPGAGSPMFVPPARVPSMLSYLSGCEPSPQPELAA  
RPGWAQTATADSSAFGPGSPHPPAAHPPGATAFPFAHSPSGPGSGGSAGGRDGSAYQAL  
LPREQFAAPLGRPVGTSYSATYPAYVSPDVAQSWTAGPFDGSLHGLPGRRPTFVSDFLE  
EFPGEGRECVNCGALSTPLWRRDGTGHYLCNACGLYHKMGNVRPLVRPQKRLSSRRAG  
LCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKLHGVRPLAMKKESIQRKRKPKTIKA  
RGSSGSTRNASASPSAVASTDSSAATSKAKPSLASPVCPGPSMAPQASGGEDDSLAPGHL  
EFKFEPEDFAFPSTAPSPQAGLRGALRQEAWCALALA

>sp|Q9H0R6|GATA\_HUMAN Glutamyl-tRNA (Gln) amidotransferase subunit A, mitochondrial  
OS=Homo sapiens GN=QRSL1 PE=1 SV=2

MLGRSLREVSAALKQGGITPTELCQKCLSLIKKTKFLNAYITVSEEVALKQAESEKRYK  
NGQSLGDLGPIAVKDNFSTSGIETTCASNMLKGYIPPYNATVVQKLLDQGALLMGKTN  
LDEFAMGSGSTDGVFGPVKNPWSYSKYREKRKQNPHESEDSWLITGGSSGGSAAAVS  
AFTCYAALGSDTGGSTRNPAAHCVGLVGFKPSYGLVSRHGLIPLVNSMDVPGLTRCVDDA  
AIVLGALAGPDPRDSTTVHEPINKPFMLPSLADVSKLCIGIPKEYLVPESSEVQSLWSK  
AADLFESEGAKEVIEVSLPHTSYSIVCYHVLCTSEVASNMARFDGLQYGHRCIDVSTEAM  
YAATRREGFNDVVRGRILSGNFLLKENYENYFVKAQKVRRLIANDFVNAFNSGVDVLLT  
PTTLSEAVPYLEFIKEDNRTRSQQDDIFTQAVNMAGLPAVSIPVALSNQGLPIGLQFIGR  
AFCDQQLLTVAKWFEKQVQFPVILQELMDDCSAVLENEKLASVSLKQ

>sp|Q8WUU5|GATD1\_HUMAN GATA zinc finger domain-containing protein 1 OS=Homo sapiens  
GN=GATAD1 PE=1 SV=1

MPLGLKPTCSVCKTTSSMWWKGAQGEILCHHCTGRGGAGSGGAGSGAAGGTGGSGGGGF  
GAATFASTSATPPQNGGGGGKQSKQEIHRRSARLRNTKYKSAPAAEKKVSTKGKGRRI  
FKLKNPIKAPESVSTIITAESIFYKGVYQIGDVVSVIDEQDGKPYAQIRGFIQDQYCE  
KSAALTWLIPTLSSPRDQFDPASYIIGPEEDLPRKMEYLEFVCHAPSEYFKSRSSPFPTV  
PTRPEKGYIWHVGTPTAITIKESVANHL

>sp|095395|GCNT3\_HUMAN Beta-1,3-galactosyl-0-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 3 OS=Homo sapiens GN=GCNT3 PE=2 SV=1

MVQWKRLCQLHYLWALGCYMLLATVALKLSFRLKCDSDHLGLESRESQSQYCRNILYNFL  
KLPAKRSINCSGVTGRDQEAVLQAILNNLEVKKKREPFTDTHYLSLTRDCEHFKAERKFI  
QFPLSKEEVEFPFIAYSMVIEHKIENFERLLRAVYAPQNIYCVHVDEKSPETFKEAVKAI  
SCFPNVFIASKLVRVYASWSRVQADLNCMEDLLQSSVPWKYFLNTCGTDFPIKSNAEMV  
QALKMLNGRNSMESEVPPKHKETRWKYHFEVVRDTLHLTNKKDPPPYNLTMFTGNAYIV  
ASRDFVQHVLKNPKSQQLIEWVKDTYSPDEHLWATLQARWMPGSVPNHPKYDISDMTSI  
ARLVKWWGHEGDIDKGAPYAPCSGIHQRAICVYGAGDLNWMLQNHLLANKFDPKVDNA  
LQCLEEYLRYKAIYGTGL

>sp|Q9H3P7|GCP60\_HUMAN Golgi resident protein GCP60 OS=Homo sapiens GN=ACBD3 PE=1 SV=4

MAAVLNAERLEVSVDGLTSPDPEERPGAEGAPLLPPPLPPSPGSGRGPASGEQPEP  
GEAAAGGAAEEARRLEQRWGFGLLELYGLALRFFKEKDGAHPTYEELKLVALHKQVL  
MGYPNPDTCEVGFDFVLGNDRRREWAALGNMSKEDAMVEFVKLLNRCCHLFSTYVASHK  
IEKEEQEKRRKEEEERRRERERLQKEEEKRRREERLRREERERRRIEERLRLE  
QQKQQIMAALNSQTAVQFQQYAAQYPGNYEQQILIRQLQEQQHYQQYMQQLYQVQLAQQ  
QAALQKQEQVVVAGSSLPTSSKVNATVPSNMMSVNGQAKHTDSSKELEPEAAEEALEN  
GPKESLPVIAAPSMWTRPQIKDFKEKIQDADSVITVGRGEVTVRVPTHEEGSYLWFEF  
ATDNYDIGFGVYFEWTDSPNTAVSVHVSESSDDDEEEENIGCEEKAKKNANKPLLDEIV  
PVYRRDCHEEVYAGSHQYPGRGVYLLKFDNSYSLWRSKSVYYRVYYTR

>sp|Q02108|GCYA3\_HUMAN Guanylate cyclase soluble subunit alpha-3 OS=Homo sapiens GN=GUCY1A3 PE=1 SV=2

MFCTKLKDLKITGECFSLAPGQVPNESSEEAAGSSESCKATVPICQDIPEKNIQESLP  
QRKTSRSRVYLHTLAESICKLIFPEFERLNVALQRTLAKHKIKESRKSLEDFEKTIAE  
QAVAAGVPVEVIKESLGEEVFKICYEEDENILGVVGGTLKDFLNSFSTLLKQSSHCQEAG  
KRGRLDASILCLDKEDDFLHVYFFPKRTTSLILPGIIKAAHVLYETEVEVSLMPPCF  
HNDCEFEVNPYLLYSVHMKSTKPSLSPSKPQSSLVIPTSLFCKTFPFHMFDMITILQ  
FGNGIRRLMNRDFQGKPNFEEYFEILTPKINQTFSGIMTMLNMQFVVRVRWDNSVKKS  
SRVMDLKGQMIYIVESSAILFLGSPCVDRLDFTGRGLYLSDIPIHNAIRDVVLIGEQR  
AQDGLKKRLGKLKATLEQAHQALEEEKKTVDLLCSIFPCEVAQQLWQGQVQAKKFSNV  
TMLFSDIVGFTAICSQCSPLQVITMLNALYTRFDQCGGELDVYKQVETIGDAYCVAGGLHK  
ESDTHAVQIALMALKMMELSDEVMSPHGEPKMRIGLHSGSVFAGVGVKMPRYCLFGNN  
VTLANKFESCSVPRKINVSPTTYRLKDCPGFVFTPRSREELPPNFPSEIPGICHFLDAY  
QQGTNSKPCFQKKDVEDGNANFLGKASGID

>sp|075343|GCBY2\_HUMAN Guanylate cyclase soluble subunit beta-2 OS=Homo sapiens GN=GUCY1B2 PE=2 SV=2

MSGYDRMLRTLGGNLMFEIENLDALHSYLALSQYQEMNAPSFRVERGADGKMFLHYSDRS  
GLCHIVPGIIEAVAKDFFDIDVIMDILDMNEEVETGKKEHVFLIVQKAHRKMRKTKPK  
RLQDSQGMERDQEALQAAFLMKKEYLNVSACPVKKSHWDVVRISVMFGKGHLMNTFEP  
YPERLWIEEKTFCNAFFHIVFDESQVQKQARVNIQKYVPLQTQNIQLDEYFSIIHPQV  
TFNIFSIRRFINSQFVLKTRREMPVAWQSRTTLKLQGQMIWMESMWCVMVYLCSPKLRSL  
QELEELNMHLSDIAPNDTTRDLILLNQQLAEIELSNQLERKKEELQVLSKHLAIEKKKT  
ETLLYAMLPHVANQLREGKKAAGEFKSCTILFSDVVTFTNICTACEPIQIVNVLNSMY  
SKFDRLTSVHAVYKQVETIGDAYMVVGGVPVPIGNHAQRVANFALGMRISAKEVTNPVTGE

PIQLRVGIHTGPVLADVVDKMPRYCLFGDTVNTASRMESHGLPNKVHLSPTAYRALKNQ  
GFKIIERGEIEVGKGRMTTYFLIQNLNATEDEIMGRSKTPVDHKGSTQKASLPTTKLQG  
SVQPSCPEHSSLASWLL

>sp|P31150|GDIA\_HUMAN Rab GDP dissociation inhibitor alpha OS=Homo sapiens GN=GDI1 PE=1  
SV=2

MDEEYDVIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESSITPLEELYKRFQLE  
GPPEMGRGRDWNVDLIPKFLMANGQLVKMLLYTEVTRYLDFKVVEGSFVYKGGKIYKVP  
STETEALASNLGMFEKRRFRKFLVFVANFDENDPKTFEGVDPQTTSMRDVYRKFDLGQD  
VIDFTGHALALYRTDDYLDQPCLETVNRILYSESLARYGKSPYLYPLYGLGELPQGFAR  
LSAIYGGTYMLNKPVDIIMENGKVVGVKSEGEVARCKQLICDPYIPDRVRKAGQVIRI  
ICILSHPIKNTDANSCQIIIPQNQVNRKSDIYVCMISYAHNVAAGKYIAIASTTVETT  
DPEKEVEPALELLEPIDQKFVAISDLYEPIDDGESQVFCSCSYDATTHFETTNCNDIKDI  
YKRMAGTAFDFENMKRKQNDVFGEAEQ

>sp|Q8N9F7|GDPD1\_HUMAN Glycerophosphodiester phosphodiesterase domain-containing protein  
1 OS=Homo sapiens GN=GDPD1 PE=1 SV=2

MSSTAIFYLLSTLGGYLVTSFLLLKYPTLLHQKKQRFLSKHISHRGGAGENLENTMAAF  
QHAVKIGTDMLELDCHITKDEQVVVSHDENLKRATGVNVNISDLKYCELPYLGKLDVSF  
QRACQCEGKDNRIPLLKEVFPAFNPINIDIKVNNVLKKVSELVKRYNREHLTVWGN  
ANYEIVEKCYKENS DIPILFSLQRVLLILGLFFTGLLPFVPIREQFFEIPMPSSIILKLKE  
PHTMSRSQKFLIWLSDLLMRKALFDHLTARGIQVYIIVLNEEQEYKRAFDLGATGVMTD  
YPTKLRDFLHNFA

>sp|Q8WXD5|GEMI6\_HUMAN Gem-associated protein 6 OS=Homo sapiens GN=GEMIN6 PE=1 SV=1

MSEWMKKGPLEWQDYIYKEVRVTAASEKNEYKGWVLTTPVSAIVLVNFLEDGSMSTGI  
MGHAVQTVETMNEGHRVREKLMHLFTSGDCKAYSPEDLEERKNSLKKWLEKNHIPITEQ  
GDAPRTLCAVGLTIDPPYGPENCSSSNEIILSRVQDLIEGHLTASQ

>sp|Q3B7J2|GFOD2\_HUMAN Glucose-fructose oxidoreductase domain-containing protein 2  
OS=Homo sapiens GN=GFOD2 PE=2 SV=1

MKMLPGVGVFGTGSSARVLVPLRAEGFTVEALWGKTEEEAKQLAEEMNIAFYTSRTDDI  
LLHQVDVLVCISIPPLTRQISVKALGIGKNVCEKAATSVDAFRMVTASRYYPQLMSLV  
GNVLRFLPAFVRMKQLISEHYVGAVMICDARIYSGSLLSPSYGWICDELMTGGGGLHTMGT  
YIVDLLTHLTGRRAEKVHLLKTFVRQNAAIRGIRHVTSDDFCFQMLMGGGVCSTVTLN  
FNMPGAFVHEVMVGSAGRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQDVP  
LLYLKGMVYMQALRQSFQGGQDRRTWDRTPVSMASFEDGLYMQSVVDAIKRSSRSGEW  
EAVEVLTEEPDTNQNLCEALQRNNL

>sp|O94808|GFPT2\_HUMAN Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 2  
OS=Homo sapiens GN=GFPT2 PE=1 SV=3

MCGIFAYMNYRVPRTKEIFETLIKGLQRLEYRGYDSAGVAIDGNNHEVKERHIQLVKKR  
GKVKALDEELYKQDSMDLKVEFETHFGIAHTRWATHGVPSAVNSHPQRSKGNFVVIHN  
GIITNYKDLRKFLSKGYEFESDTETIAKLIKVFVDNRETEDITFSTLVERVIQQLLEG  
AFALVFKSVHYPGEAVATRRGSPLLI GVRSKYKLSTEQIPILYRTCTLENVKNICKTRMK  
RLDSSACLHAGVDKAVEFFASDASAIIEHTNRVIFLEDDDIAAVADGKLSIHRVKRSAS  
DDPSRAIQTLQMEQLQIMKGNFSAFMQKEIFEQPESVFNTMRGRVNFETNTVLLGGLKDH  
LKEIRRCRRLIVIGCGTSYHAAVATRVLEELTELPVMVELASDFLDRNTPVFRDDVCFF  
ISQSGETADTLLALRYCKDRGALTVGVTNTVGSSISRETDCGVHINAGPEIGVASTKAYT



SQFISLVMFGLMSEDRLQNRRQEIIIRGLRSLPELKEVLSLEEKIHDLALELYTQRS  
LLVMGRGYNATCLEGALKIKEITYMHSEGILAGELKHGPLALIDKQMPVIMVIMKDPCF  
AKCQNALQQVTARQGRPIILCSKDDTESSKFAYKTIELPHTVDCLQGILSVIPLQLLSFH  
LAVLRGYDVDFPRNLAKSVTVE

>sp|POCL80|GG12F\_HUMAN G antigen 12F OS=Homo sapiens GN=GAGE12F PE=3 SV=1  
MSWRGRSTYYWPRPRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAEQEGE  
DEGASAGQGPKPEAHSQEKGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|POCL82|GG12I\_HUMAN G antigen 12I OS=Homo sapiens GN=GAGE12I PE=1 SV=1  
MSWRGRSTYYWPRPRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAEQEGE  
DEGASAGQGPKPEAHSQEKGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|Q8N7Z2|GG6L1\_HUMAN Golgin subfamily A member 6-like protein 1 OS=Homo sapiens  
GN=GOLGA6L1 PE=2 SV=2

MLMWPQPHLPTHPLPTHPLPTHPLTHPHVPTHPLTHPMMSKETRQSKLAEAKEQ  
LTDHHPQTNPSTVGTAAADTKKKKINNGTNPETTTSGGCHSPEDEQKASHQHQAALRRELE  
AQVHTIRILTCQKTELQMALYSQHAVKQLEGEARDLISRLHDSWKFFAGELEQALSAVAT  
QKKKADRYIEELTKERDALSLELYRNTITDEELKEKNAKLQEKQLVESEKSEIQLNVKE  
LKRKLERAKLLLPQQQLQAEADHLGKELQSVSAKLQAQVEENELWNRLNQQQEEKMWRQE  
EKIQEWEEKIQEQUEEKIREQUEEKIREQUEEKMRQEEMMWEKEEKMRQEEMMWEKEEKMR  
RLEMMWEKEEKIRELEEKMHQEKIREQUEEKREQUEEKIREQEKREQEAKMWRQEEKIR  
EQEEKIREQEKMRQEEKIHEQEKIREEEKRQEEMWRQEEKIREQEEIWRQEKMHQ  
QEKIRKQEEKVWRQEEKMHDQEEKIREQUEEKMRQEEKIREQEEKIREQEEKIREQKEKI  
REQUEEKIWEQEEKIREQUEEMMQEQUEEKMWEQUEEKMCQEEKMQEQUEEKMRQEEKMWEQE  
VRLRQEEKMQEHQEHLEAAI

>sp|P36268|GGT2\_HUMAN Inactive gamma-glutamyltranspeptidase 2 OS=Homo sapiens GN=GGT2  
PE=1 SV=3

MKKKLVLGLLAVVLVLVIVGLCLWLPSASKEPDNHVYTRAAMAADAKQCLEIGRDTLRD  
GGSVDAIAALLCVGLMNAHSMGIGVGLFTIYNSTTGKAEVINAREVAPRLAFASMFN  
SSEQSQKGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIQLARQGFPVVGKGLAAVLEN  
KRTVIEQQPVLWYVFCRDRKVLREGERLTLPRLADTYEMLAIEGAQAFYNGSLMAQIVKD  
IQAAGGIVTAEDLNNYRAELIEHPLNISLGDAVLYMPSARLSGPVLALILNILKGYNFSR  
ESVETPEQKGLTYHRIVEAFRFAYAKRTLLGDPKFVDVTEVVRNMTSEFFAAQLRSQISD  
HTTHPISYYKPEFYTPDDGGTAHLSVVAEDGSVSAVSATSTINLYFGSKVCSVSGILFNNE  
WTTALPAFTNEFGAPPSPANFIQPGKQPLLSMCLTIMVGQDQGVMMVGAAGGTQITTD  
TALAIINLWFGYDVKRAVEEPRLNKLLPNVTTVERNIDQAVTAALETRHHHTQIASTF  
IAVVQAIVRTAGGWAAALDSRKGGEAGY

>sp|Q9UG22|GIMA2\_HUMAN GTPase IMAP family member 2 OS=Homo sapiens GN=GIMAP2 PE=1 SV=2  
MDQNEHSHWGPBAGKQACASRSELRIILVGKTGTGKSAAGNSILRKQAFESKLSQTLTKT  
CSKSQGSWGNREIVIIDTPDMFSWKDHCEALYKEVQRCYLLSAPGPHVLLLVTQLGRYTS  
QDQQAARVKEIFGEDAMGHTIVLFTHKEDLNGSLMDYMHSDNKAISKLVAAACGGRIC  
AFNNRAEGSNQDDQVKELMDCIEDLLMEKNGDHYTNGLYSLIQRSKCGPVGSDERVKEFK  
QSLIKYMETQRSYTALAEANCLKGALIKTQLCVLFCIQLFLRLIILWLCILHSMCNLFCC  
LLFSMCNLFCSLLFIIPKKLMIFLRTVIRLERKTPRL

>sp|Q9NUV9|GIMA4\_HUMAN GTPase IMAP family member 4 OS=Homo sapiens GN=GIMAP4 PE=1 SV=1  
MAAQYGSMSFNPSTPGASYGPRQEPNRSQLRIVLVGKTGAGKSATGNSILGRKVFHSGT

AAKSITKKCEKRSSSWKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLV  
VPLGRYTEEEHKATEKILKMFGERARSMILIFTRKDDLGDNLHDYLRAPEDIQDLMD  
IFGDRYCALNNKATGAEQEAQRAQLGLIQRVVRENKEGCTNRMVQRAEEEIQKQTQAM  
QELHRVELEREKARIREEYEEKIRKLEDKVEQEKRKKQMEKKLAEQEAHYAVRQQRARTE  
VESKDGILELIMTALQIASFILLRLFAED

>sp|Q9Y223|GLCNE\_HUMAN Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-  
acetylmannosamine kinase OS=Homo sapiens GN=GNE PE=1 SV=1

MEKNGNNRKLRCVATCNRADYSKLAPIMFGIKTEPEFFELDVVVLGSHLIDDYGNTYRM  
IEQDDFDINTRLHTIVRGEDEAMVESVGLALVKLPDVLNRLKPDIMIVHGDRFDALALA  
TSAALMNIRILHIEGGEVSGTIDDSIRHAITKLAHYHVCCTRSAEQHLISMCEHDHRIILL  
AGCPSYDKLLSAKNKDYMSIIRMWLGDDVKSKDYIVALQHPVTTDIKHSIKMFELTLDAL  
ISFNKRTLVLFPNIDAGSKEMVRVMRKKGIEHHPNFRVAKHVPFDQFIQLVAHAGCMIGN  
SSCGVREVGAFGTPVINLGTRQIGRETGENVLHVRDADTQDKILQALHLQFGKQYPCSKI  
YGDGNVPRILKFLKSIDLQEPLQKKFCFPVKENISQDIDHILETSLAVALDLGGTNLR  
VAIVSMKGEIVKKYTFNPKTYEERINLILQMCVEAAAEAVKLNCRILGVGISTGGRVNP  
REGIVLHSTKLIQEWNSVDLRTPLSDTLHLPVWVDNDGNCAALAEKFGQKGLENFVTL  
ITGTGIGGGIIHQHELHIGSSFCAAELGHLVVS LDGPDSCSGSHGCIEAYASGMALQREA  
KKLHDEDL LVEGMSVPKDEAVGALHLIQA AKLGNAKAQSILRTAGTALGLGVVNILHTM  
NPSLVILSGVLASHYIHIVKDVIRQQALSSVQDQDVVVSDLVDPALLGAASMVLDTTRR  
IY

>sp|Q9BZE0|GLIS2\_HUMAN Zinc finger protein GLIS2 OS=Homo sapiens GN=GLIS2 PE=1 SV=2

MHSLDEPLDLKLSITKLRAAREKRERTLGVRPRALHRELGLVDDSPTPGSPGSPSGFL  
LNSKFPEKVEGRFSAAPLVDSLSPPSGLDSPNGSSSLSPERQNGDLPPVPSASDFQPL  
RYLDGVPSSFQFFLPLGSGGALHLPASSFLTPPKDKCLSPDLPLPKQLVCRWAKCNQLFE  
LLQDLVDHVN DYHVKPEKDAGYCCHWEGCARHGRGFNARYKMLIHIRTHTNEKPHRCPTC  
SKSFSRLENLKIHNRSHTGEKPYVCPYEGCNKRYSNSSDRFKHTRTHYVDKPYCKMPGC  
HKRYTDPSSLRKHIKAHGHFVSHEQQELLQLRPPPKPPLPAPDGGPYVSGAQIIIPNPAA  
LFGGPGPLPLPLAPGPLDLSALACNGGGSGGGGMPGLPGPVLPLNLAKNPLLPSP  
FGAGGLGLPVVSLLAGAAGGAEGEKGRGSVPTRALGMEGHKTPLETESSSRPSPDGL  
PLLPGTVLDLSTGVNSAASSPEALAPGWVIPPGSVLLKPAVVN

>sp|P16520|GBB3\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3  
OS=Homo sapiens GN=GNB3 PE=1 SV=1

MGEMEQLRQEAELKKQIADARKACADVT LAELVSGLEVGRVQMRTRRTL RGH LAKIYA  
MHWATDSKLLVSASQDGKLIWDSYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGLDNM  
CSIYNLKSREGNVKVSRELSAHTGYLSCCRFLDDNNIVTSSGDTTCALWDIETGQKQTVF  
VGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQFTTG HESDINAICFFPNGEA  
ICTGSDDASCRLFDLRADQELICFSHESIICGITSVAFSLSGRLLFAGYDDFNCNVWDSM  
KSERVGILSGHDNRVSLGVTADGMAVATGSWDSFLKIWN

>sp|Q92538|GBF1\_HUMAN Golgi-specific brefeldin A-resistance guanine nucleotide exchange  
factor 1 OS=Homo sapiens GN=GBF1 PE=1 SV=2

MVDKNIIYIIQGEINIVVGAIKRNARWSTHTPLDEERDPLLHSFGHLKEVLNSITELSEIE  
PNVFLRPFLEVIRSEDTTGPI TGLALTSVNKFLSYALIDP THEGTAEGMENMADAVTHAR  
FVGTDPASDEVVLMKILQVLR TLLTPVGAHLTNE SVCEIMQSCFRICFEMR LSELLRKS  
AEHTLVDMVQLLFTRL PQFKEEPKNYVGTMKKLKMRA GMSDSSKWKQKRSRPPPRHM

TKVTPGSELPTPNGTTLSSNLTGMPFIDVPTPISSASSEAAASAVVSPSTDGLEFSSQT  
TSKEDLTDLEQPGSPGYSTATEPGSSELGVPEQPDLEQTHVEKSQSASVESIPEVLEEC  
TSPADHSDSASVHMDYVNPGRVFTQSSQKEGTALVPYGLPCIRELFRFLISLTNPHDR  
HNSEVMIHMLHLLTVALESAPVAQCQTLLGLIKDEMCRHLFQLLSIERLNLYAASLRVC  
FLLFESMREHLKFQMEMYIKKLMEIITVENPKMPYEMKEMALEAIVQLWRIPSFVTELYI  
NYDCDYCSNLFEELTKLLSKNAFPVSGQLYTHLLSLDALLTVIDSTEAHCAKVLNSL  
TQQEKKETARPSCEIVDGTREASNTERTASDGKAVGMASDIPGLHLPGGGRLPPEHGKSG  
CSDLEEAVDSGADKKFARKPPRFSCLLPDPRELIEIKNKKLLITGTEQFNQPKKGIQF  
LQEKGLLTIPMDNTEVAQWLRNPRLDKKMIGEFVSDRKNIDLLESFVSTFSFQGLRLDE  
ALRLYLEAFRLPGEAPVIQRLLEAFTERWMNCNGSPFANSDACFSLAYAVIMLNTDQHNH  
NVRKQNA PMTLEEFRKNLKGVNGGKDFEQDILED MYHAIKNEEIVMPEEQTGLVRENYVW  
NVLLHRGATPEGIFLRVPTASYDLDFMTMTWGPTIAALSYVFDKSLEETIIQKAISGRK  
CAMISAHYGLSDVFDNLIISLCKFTALSSESIENLPSVFGSNPKAHIAAKTVFHLAHRHG  
DILREGWKNIEMAMLQLFRAQLLPKAMIEVEDFVDPNGKISLQREETPSNRGESTVLSFV  
SWLTLSGPEQSSVRGPSTENQEAKRVALECIKQCDPEKMITESKFLQLESLQELMKALVS  
VTPDEETYDEEDAAFCEMLLRIVLENRDRVGCWQTVRDHLYHLCVQAQDFCFLVERAV  
VGLLRLAIRLLRREEISAQVLLSLRILLMKPSVLSRVSHQVAYGLHELLKTNAANIHS  
DDWATLFTLLECIGSGVKPPAALQATARADAPDAGAQSDSELPSYHQNDVSLDRGYTSDS  
EYVTDHGRPGKIHRSATDADVNSGWL VVGKDDVDNSKPGPSRPGPSPLINQYSLTVGLD  
LGPHDTKSLLKCVESLSFIVRDAAHITPDNFELCVKTLRIFVEASLNGGCKSQEKRGKSH  
KYDSKGNRFKKKSKEGSM LRRPRTSSQHASRGGQSDDEDEGVPASYHTVSLQVSQDLLD  
LMHTLHTRAASIYSSWAEQ RHELTGGQKIEADSRTLWAHCWCP LLQGIACLCDDARRQV  
RMQALTYLQRALLVHDLQKLDLEWESCFNKVLFPLLT KLENISPADVGGMEETRMRAS  
TLLSKVFLQHLSPLLSLSTFAALWLTILDFMDKYM HAGSSDLLSEAIPESLKNMLLVMDT  
AEIFHSADARGGGSALWEITWERIDCF LPHLRDELFKQTVIQDPMPEPQGQKPLASAH  
LTSAAGDTRTPGHPPPEIPSELGACDFEKPESPR AASSSSPGSPVASSPSRLSPTPDGP  
PPLAQPLILQPLASPLQVGVPMTLP IILNPALIEATSPVPLLATPRPTDPIPTSEVN

>sp|P32456|GBP2\_HUMAN Guanylate-binding protein 2 OS=Homo sapiens GN=GBP2 PE=1 SV=3

MAPEINLPGMSLIDNTKGQLVNPEALKILSAITQPVVVVAIVGLYRTGKSYLMNKL  
KKNFSLGSTVKSHTKGIWWCVPHPKPEHTLVLLDTEGLGDIKGDNENDSWIFALAI  
LLSSTFVYNSMGTINQQAMDQLHYVTELTDRIKANSSPGNNSVDDSAFVSFFPAFVWTL  
RDFTLLEVDGEPITADDYLESLKLKRGTDKKSFSNDPRLCIRKFFPKRKC FVFDWPA  
PKKYLAHLEQLKEEELNPDFIEQVAEFCSYILSHSNVKTLSGGIPVNGPRLESVLTYVN  
AISSGDLPCMENAVLALAQIENSAAVEKAI AHYEQQMGQKVQLPTETLQELLDLHRDSER  
EAIEVFMKNSFKDQMFQRKLGAQLEARRDDFCKQNSKASSDCCMALLQDIFGPLEEDV  
KQGTFSKPGGYRLFTQKLQELKNYYYQVPRKGIQAKEVLKYLESKEDVADALLQTDQSL  
SEKEKAIEVERIKAESA EAAKMLEEIQKKNEEMMEQKEKSYQEHVKQLTEKMERDRAQL  
MAEQEKTALKLQEQLKEGFE NESKRLQKDIWDIQMRKSLEPICNIL

>sp|P48169|GBRA4\_HUMAN Gamma-aminobutyric acid receptor subunit alpha-4 OS=Homo sapiens  
GN=GABRA4 PE=2 SV=2

MVSAKKVP AIALSAGVSFALLRFLCLAVCLNESPGQNQKEEKLCTENFTRILDSLLDGYD  
NRLRPGFGGPVTEVKTDIYVTSFGPVSDVEMEYTM DVFFRQTWIDKRLKYDGP IELRLN  
NMMVTKVWTPDTFFRNGKKS VSHNMTAPNKLFRIMRNGTILYTMRLTISAECPMRLVDFP  
MDGHACPLKFGSYAYPKSEMIYTWTKGPEKSVEVPKESSSLVQYDLIGQTVSSETIKSIT

GEYIVMTVYFHLRRKMGYFMIQTYIPCIMTVILSQVSFWINKESVPARTVFGITTVLMT  
TLSISARHSLPKVSYATAMDWFIACFAFVFSALIEFAAVNYFTNIQMEKAKRKTSKPPQ  
EVPAAPVQREKHPEAPLQNTNANLNMRKRTNALVHSESDVGNRTEVGNHSSKSSTVVQES  
SKGTPRSYLASSPNPFSRANAETISAARALPSASPTSIRTGYMPRKASVGSASTRHVFG  
SRLQRIKTTVNTIGATGKLSATPPPSAPPPSGSGTSKIDKYARILFPVTFGAFNMVYVVV  
YLSKDTMEKSESLM

>sp|Q92947|GCDH\_HUMAN Glutaryl-CoA dehydrogenase, mitochondrial OS=Homo sapiens GN=GCDH  
PE=1 SV=1

MALRGVSVRLLSRGPGLHVLRTWVSSAAQTEKGGRTQSQLAKSSRPEFDWQDPLVLEEQL  
TTDEILIRDTFRITYCQERLMPRILLANRNEVFHREIISEMGELGVLGPTIKGYGCAGVSS  
VAYGLLARELERVDSGYRSAMSVQSSLVMHPIYAYGSEEQRQKYLPLAKGELLGCFGLT  
EPNSGSDPSSMETRAHYNSSNKSITLNGTKTWITNSPMADLFVWWARCEDGCIRGFLEK  
GMRGLSAPRIQGFSLRASATGMIIMDGVEVPEENVLPGASSLGGPFGCLNNARYGIAWG  
VLGASEFCLHTARQYALDRMQFGVPLARNQLIQKKLADMLTEITLGLHACLQLGRLKDQD  
KAAPEMVSLKRNCGKALDIARQARDMLGGNGISDEYHVIRHAMNLEAVNTYEGTHDIH  
ALILGRAITGIQAFTASK

>sp|075603|GCM2\_HUMAN Chorion-specific transcription factor GCMb OS=Homo sapiens GN=GCM2  
PE=1 SV=1

MPAAAVQEAVGVCSYGMQLSWDINDPQMPQELALFDQFREWPDGYVRFIYSSDEKKAQRH  
LSGWAMRNTNNHNGHILKKSCLGVVVCTQACTLPDGSRLQLRPAICDKARLKQKKACPN  
CHSALELIPCRGHSGYPVTNFWRLDGNAIFFQAKGVHDHPRPESKSETEARRSAIKRQMA  
SFYQPQKKRIRESEAEENQDSSGHFSNIPPLENPEDFDIVTETSFPPIPGQPCSPFKSDV  
YKATCDLATFQGDKMPFPQKYSSPRIYLPRPPCSYELANPGYTNSSPYPTLYKDSTSIPN  
DTDWVHLNLTQCNVNSYSSYERSFDFTNKQHGWKPALGKPSLVERTNHGQFQAMATRPYY  
NPELPCRYLTTPPPGAPALQTVITTTTKVSYQAYQPPAMKYSDSVREVKSLSSCNYPED  
TGMSVYPEPWGPPVTVTRAASPGPPPMKIAGDCRAIRPTVAIPHEPVSSRTDEAETWDV  
CLSGLGSAVSYSDRVGPFFTYNNEDF

>sp|P52565|GDIR1\_HUMAN Rho GDP-dissociation inhibitor 1 OS=Homo sapiens GN=ARHGDIA PE=1  
SV=3

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVA  
VSADPNVNVVVTGLTLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNR  
EIVSGMKYIQHTYRKGVKIDKTDYMGVSGYPRAEYEFLLTPVEEAPKGMLARGSYSIKSR  
FTDDDKTDHLSWEWNLTIKKDWKD

>sp|P52566|GDIR2\_HUMAN Rho GDP-dissociation inhibitor 2 OS=Homo sapiens GN=ARHGDIB PE=1  
SV=3

MTEKAPEPHVEEDDDDELDSKLNKPPPQKSLKELQEMDKDESLEIKYKKTLLGDGPVVT  
DPKAPNVVVRTLTVCESAPGITMDLTGDLEALKKETIVLKEGSEYRVKIHFKVNRDIV  
SGLKYVQHTYRTGVKVDKATFMVGSYGRPEEYEFLLTPVEEAPKGMLARGTYHNKSFFTD  
DDKQDHLSWEWNLSIKKEWTE

>sp|Q9HCC8|GDPD2\_HUMAN Glycerophosphoinositol inositolphosphodiesterase GDPD2 OS=Homo  
sapiens GN=GDPD2 PE=2 SV=1

MAESPGCCSVWARCLHCLYSCHWRKCPRRMQTSKCDCIWFGLLFLTFLLSLSWLYIGLV  
LLNDLHNFNEFLFRRWGHWMDSLAFLLVISLLVTYASLLLVLALLLRQPLHLHSLH  
KVLLLLIMLLVAAGLVGLDIQWQQEWHSRLVSLQATAPFLHIGAAAGIALAWPVADTFY

RIHRRGPKILLLLFFGVVLVIYLAPLCISSPCIMEPRDLPPKPLVGHARGAPMLAPENT  
LMSLRKTAECGATVFETDVMVSSDGVFPFLMHDEHLSRTTNVASVFPTRITAHSSDFSWE  
LKRLNAGSWFLERRFPWGAKPLAGPDQKEASQTPALEELLEEEAAALNLSIMFDLRRPP  
QNHTYYDTFVIQTLETVLNARVPQAMVFWLPDEDRANVQRRAPGMRQIYGRQGGRTERP  
QFLNLPYQDLPLLDIKALHKDNVSVNLFVVNKPWLFSLWCAGVDSVTTNDCQLLQQMRY  
PIWLITPQTYLIIWVITNCVSTMLLLWTFLLQRRFVKKRGKTGLETAVLLTRINNFMM

>sp|P55040|GEM\_HUMAN GTP-binding protein GEM OS=Homo sapiens GN=GEM PE=1 SV=1

MTLNNVTMRQGTVMQPQQQRWSIPADGRHLMVQKEPHQYSHRNRHSATPEDHCRRSWSS  
DSTDVISSESGNTYYRVVLIGEQGVGKSTLANIFAGVHDSMDSCEVLGEDTYERTLMV  
DGESATIILLDMWENKGENEWLHDHMCQVGDAYLIVYSITDRASFEEKASELRIQLRRARQ  
TEDIPILVGNSDLVRCREVSVEGRACAVFDCKFIETSAAVQHNVKELFEGIVRQVR  
LRRDSKEKNERRLAYQKRKESMPRKARRFWGKIVAKNNKNMAFKLSKSKSCHDLSVL

>sp|Q9NXC2|GFOD1\_HUMAN Glucose-fructose oxidoreductase domain-containing protein 1  
OS=Homo sapiens GN=GFOD1 PE=1 SV=1

MLPGVGFGTSLTARVIIPLLKDEGFAVKALWGRTQEEAEELAKEMSVPFYTSRIDEVLL  
HQDVDLVCINLPPLTRQIAVKTLGIGKNVICDRTATPLDAFRMTSAAHYYPKLMSIMGN  
VLRFLPAFVRMKQLIEEGYVGEPLVCEVQVHGGSLGKKYNWSCDDLGGGGGLHSVGTYY  
IDLLTFLTQKAVKVHGLLKTFFVKQTDHIKQIRQITSDDFCTFQMVLEGGVCCTVTLNFN  
VPGEFKQDVTVVGSAGRLLAVGTDLYGQRNSAPEQELLVQDATPVSNLLPEKAFSDIPS  
PYLRGTIKMMQAVRQAFQDQDDRRTWGRPLTMAATFDDCLYALCVVDTIKRSSQTGEWQ  
NIAIMTEEPELSPAYLISEAMRRSRMSLYC

>sp|P56159|GFRA1\_HUMAN GDNF family receptor alpha-1 OS=Homo sapiens GN=GFRA1 PE=2 SV=2

MFLATLYFALPLDLLLSAEVSGGDRLCDVKASDQCLKEQSCSTKYRTLRLQCVAGKETNF  
SLASGLEAKDECRSAMEALKQKSLYNCRCKRGMKKEKNCLRIYWSMYQSLQGNDLLEDSP  
YEPVNSRLSDIFRVVPFISDFVQQVEHIPKGNCLDAKACNLDDICKKYRSAYITPCTT  
SVSNDVCNRRKCHKALRQFFDKVPKHSYGMFCSCRDIACTERRRQTIVPVCSYEEREK  
PNCLNLQDSCKTNYICRSRLADFFTNCPESRSVSSCLKENYADCLLAYSGLIGTVMTPN  
YIDSSSLSVAPWCDCSNSGNDLEECLKFLNFFKDNTCLKNAIQAFNGSDVTVWQPAFPV  
QTTTATTTTALRVKNKPLGPAGSENEIPTHVLPPCANLQAQKLKSNVSGNTHLCISNGNY  
EKEGLGASSHITTKSMAAPPSCGLSPLLVLVTALSTLLSLTETS

>sp|Q9BVM4|GGACT\_HUMAN Gamma-glutamylaminocyclotransferase OS=Homo sapiens GN=GGACT PE=1  
SV=2

MALVFVYGTLKRGQPNHRVLRDGAHGSAAFRARGRTLEPYPLVIAGEHNIPWLLHLPGSG  
RLVEGEVYAVDERMLRFLDDFESCPALYQRTVLRVQLLEDRAPGAEEPPAPTAVQCFVYS  
RATFPPEWAQLPHHDSYDSEGPGLRYNPENR

>sp|Q9UEU5|GGE2D\_HUMAN G antigen 2D OS=Homo sapiens GN=GAGE2D PE=1 SV=1

MSWRGRSTYRPRRYYVEPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGED  
EGASAGQGPKEADSQEQGHPQTGCECEDGPDGQEMDPPNPPEVKTPEEGEKQSQC

>sp|Q5YKI7|GGNB1\_HUMAN Putative gametogenetin-binding protein 1 OS=Homo sapiens GN=GGNB1  
PE=5 SV=1

MKEEDSSFKLCVPGIVALQSPNKAFRSTDVTGFLSELKLLGMQQESRLWKLGSQEGR  
ELLTRPEITVVEGEGYEVQRRLRHLPSISVAQCCLLLEEKGEMGNWPPE

>sp|Q86UU5|GGN\_HUMAN Gametogenetin OS=Homo sapiens GN=GGN PE=1 SV=2

MGNLQSEPSAGGSRKVQPSDRAPDSRRTSLVEPEMTSQAMRLTRGLGVWFPGSATPPGL

MVPREPQASPSTLPLTLERPSVMPPPEEAAVSAPPPAPAGTLLPGPSKWQKPAGTPVP  
RIRRLLEASHRGQDPPSLRPLKPPPPRQLSVKDTVPRAPSQFPPPLETWKPPPLPSE  
RQPADRRITPALTPASPPTESQAGPRNQQTAGRARGGAPPHAGEGEMAPADESEGLS  
LLCKITFKSRPSLAPPAASSSLAAKASLGGGGGGGLFAASGAISYAEVLKQGGLPPGAAR  
PLGEVSRGAQEAEGGDGDGEGCSGPPSAPASQARALPPPPYTTFPGSKPKFDWVSAPDGP  
ERHFRFNGAGGGIGAPRRRAAALSGPWGSPPPPEQIHSAPGPRRPAPALLAPPTFIFPA  
PTNGEPMRPGPPGLQELPPLPPPTPPPTLQPPALQPTPLPVAPLTPGLGHKESALAPTA  
APALPPALAADQAPASPAPAPTVAEPSPPVSAPAPAAPIKTRTRRNKGSRAARGATRK  
DGLHGDGPRERATATVPDSSGGGGGGSGASQTGAANTRAARHWLPFQVLNSCPCCKCYCHH  
QPRHRLPRNVSAWLSTSTNHLGEPPWVATIKLSGSLVAKLEHYDLQATHSN

>sp|095749|GGPPS\_HUMAN Geranylgeranyl pyrophosphate synthase OS=Homo sapiens GN=GGPS1  
PE=1 SV=1

MEKTQETVQRILLEPYKYLLQLPGKQVRTKLSQAFNHWLKVPEDKLQIIIEVTEMLHNAS  
LLIDDIEDNSKLRRGFVAHSIYGIPSVINSANYVYFLGLEKVLTDHPDAVKLFTRQLL  
ELHQGQGLDIYWRDNYTCPTEEYKAMVLQKTGGLFGLAVGLMQLFSDYKEDLKPLNLT  
GLFFQIRDDYANLHSKEYSENKSFCEDLTEGKFSFPTIHAIWSRPESTQVQNILRQRTEN  
IDIKKYCVHYLEDVGSFEYTRNTLKELEAKAYKQIDARGGNPELVALVKHLSKMFKEENE

>sp|P19440|GGT1\_HUMAN Gamma-glutamyltranspeptidase 1 OS=Homo sapiens GN=GGT1 PE=1 SV=2

MKKKLVLGLLAVVLVLVIVGLCLWLPSASKEPDNHVYTRAAVAADAKQCSKIGRDALRD  
GGSAVDAAIAALLCVGLMNAHSMGIGGLFLTIYNSTTRKAEVINAREVAPRLAFATMFN  
SSEQSQKGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIQLARQGFPVGKGLAAALEN  
KRTVIEQQPVLCEVFCRDRKVLREGERLTLPQLADTYETLAIEGAQAFYNGSLTAQIVKD  
IQAAGGIVTAEDLNRYRAELIEHPLNISLGDVVLMPSPAPLSGPVLALILNILKGYNFSR  
ESVESPEQKGLTYHRIVEAFRFAYAKRTLLGDPKFVDVTEVVRNMTSEFFAAQLRAQISD  
DTTHPISYYKPEFYTPDDGGTAHLSVVAEDGSAVSATSTINLYFGSKVRSPVSGILFNNE  
MDDFSSPSITNEFGVPPSPANFIQPGKQPLSSMCPTIMVGQDQVRMVGAAGGTQITTA  
TALAIINYLWFGYDVKRAVEEPRLHNQLLPNVTVERNIDQAVTAALETRHHHTQIASTF  
IAVVQAIVRTAGGWAAASDSRKGGEPAGY

>sp|Q9UJ14|GGT7\_HUMAN Gamma-glutamyltransferase 7 OS=Homo sapiens GN=GGT7 PE=1 SV=2

MAAENEASQESALGAYSPVDYMSITSFPRLPEDEPAPAAPLRGRKDEDAFLGDPDTPDPS  
FLKSARLQRLPSSSEMGSQDGSPLRETRKDPFSAAAAECSCRQDGLTVIVTACLTFATG  
VTVALVMQIYFGDPQIFQQGAVTDAARCTSLGIEVLSKQGSVDAVAAALCLGIVAPH  
SSGLGGGVMLVHDIRRNESHLIDFRESAPGALREETLQRSWETKPGLLVGVPGMVKGLH  
EAHQLYGRLPWSQVLAFAAAVAQDGFNVTHDLARALAEQLPPNMSERFRETFLPSGRPPL  
PGSLLHRPDLAEVLDVLGTSGPAAFYAGGNLTLEMVAEAQHAGGVITEEDFSNYSALVEK  
PVCGVYRGHLVLSPPPPHTGPALISALNILEGFNLTSLSREQALHWAETLKIALALAS  
RLGDPVYDSTITESMDMLSKVEAAYLRGHINDSQAAPAPLLPVYELDGAPTAAQVLIMG  
PDDFIVAMVSSLNQPFSGSLITPSGILLNSQMLDFSWPNRTANHSAPLENSVQPGKRPL  
SFLLPVVRPAEGLCGTYLALGANGAARGLSGLTQVLLNVLTNLRNLSDSLARGRLHPDL  
QSNLLQVDSEFTEEEIEFLEARGHHVEKVDVLSWVHGSRRNTNFI IAVKDPRSPDAAGAT  
IL

>sp|B5MD39|GGTL3\_HUMAN Putative gamma-glutamyltransferase light chain 3 OS=Homo sapiens  
GN=GGTLC3 PE=5 SV=1

MTSEFFAAQLRSQISDHTTHPISYYKPEFYTPDDGGTAHLSVVAEDGSAVSATSTINLYF

GSKVCSPVSGILFNNEWTTSALPAFTNEFGAPPSPANFIQPGKQPLSMCPTIMVGQDGQ  
VRMVGAAGGTQITTDALAIYNLWFGYDVKRAVEEPRLHNKLLPNVTVERNIDQAVT  
AALETRHHHTQIASTFIAVVQAIVRTAGGWAAASDSRKGGEAGY

>sp|Q9H936|GHC1\_HUMAN Mitochondrial glutamate carrier 1 OS=Homo sapiens GN=SLC25A22 PE=1  
SV=1

MADKQISLPAKLINGGIAGLIGVTCVFPIDLAKTRLQNGQNGQRVYTSMSDCLIKTVRSE  
GYFGMYRGAANVLTLTPEKAIKLAANDFFRHQLSKDGQKLTLKEMLAGCGAGTCQVIV  
TTPMEMLKIQLQDAGRIAAQRKILAAQGQLSAQGAQPSVEAPAAPRPTATQLTRDLLRS  
RGIAGLYKGLGATLLRDVPFVVFPLFANLNQLGRPASEEKSPFYVSFLAGCVAGSAAA  
VAVNPCDVVKTRLQSLQRGVNEDTYSGILDCARKILRHEGPSAFLKGAYCRALVIAPLFG  
IAQVVYFLGIAESLLGLLQDPQA

>sp|Q14161|GIT2\_HUMAN ARF GTPase-activating protein GIT2 OS=Homo sapiens GN=GIT2 PE=1  
SV=2

MSKRLRSSEVCADCSGPDPSWASVNRGTFLCDECCSVHRSLGRHISQVRHLKHTPWPPTL  
LQMVETLYNNGANSIWEHSLDPASIMSGRRKANPQDKVHPNKAEIFIRAKYQMLAFVHRL  
PCRDDDSVTAKDLKQLHSSVRTGNLETCLRLSLGAQANFFHPEKGNTPLVHASKAGQI  
LQAELLAVYGADPGTQDSSGKTPVDYARQGGHHELAERLVEIQYELTDRLAFYLCGRKPD  
HKNGQHFIIPQMADSSDLSELAKAAKKLQSLSNHLFEELAMDVYDEVDRRETDAVWLA  
TQNHSALVTETTVPFPLVNPEYSSTRNQGRQKLARFNAHEFATLVIDILSDAKRRQQGS  
SLSGSKDNVELILKTINNQHVESQDNDQPDYDSVASDEDTDLETTASKTNRQKSLDSDL  
SDGPVTVQEFMEVKNALVASEAKIQQLMKVNNNLSDELIMQKKLQTLQSENSNLKQAT  
TNVYQVQTGSEYTDTSNHSSLKRRPSARGSRPMSMYETGSGQKPYLPMGEASRPEESRM  
LQFPFAHIGRSALVTSSSLSPFSTLSWSRDESARRASRLEKQNSTPESDYDNTPNME  
PDGMGSSRKGRQSRMVWPGDGLVPDTAEPHVAPSPTLPSTEDVIRKTEQITKNIQELLRA  
AQENKHDSYIPCSEIRHVAVTEMAALFPPKPKSDMVRTSLRLTSSAYRLQSECKKTLPG  
DPGSPTDVQLVTQQVIQCAIDIKAQQLVTITTKENN

>sp|Q96MS3|GLT1D1\_HUMAN Glycosyltransferase 1 domain-containing protein 1 OS=Homo sapiens  
GN=GLT1D1 PE=2 SV=2

MRLFLAVLRPHGTNAVTAQVRHAHLEAAGHVCVLKDAFDFESRSEIANLILAENCEAAL  
ALHLYRGGRLQGHRIPFGVIFGGTDVNEDANQAEKNTVMGRVLEEAFVAVFTESMKEM  
AQAQWPHAKGKVYVQSQGIATTPNAAFNWNFTLQRSEINQSADNLHIFLLICGLRQVKDP  
LYLVDAFSAWHQEEPNVHLVIVGPEVDPVFTREVAKVKRAAGVRLIGEMPQEDLHAVVK  
NCFAVVNSSVSEGMSAAILEAMDLEVPVLARNIPGNAAVVKHEVTGLLFSNPQEFVHLAK  
RLVSDPALEKEIVVNGREYVRMYHSWQVERDYYQLIRKLEGSTED

>sp|094923|GLCE\_HUMAN D-glucuronyl C5-epimerase OS=Homo sapiens GN=GLCE PE=1 SV=3

MRCLAARVNYKTLIIICALFTLVTVLLWNKCSSDKAIQFPRRSSSGFRVDGFEEKRAAASE  
SNNYMNHVAKQQSEAFQEQKAPPVVGGFNSNVGSKVLGLKYEEIDCLINDEHTIKGR  
REGNEVFLPFTWVEKYFDVYGKVVQYDGYDRFEFSHSYSKYVAQRAPYHPDGVFMSFEGY  
NVEVRDRVKCISGVEGVPLSTQWGPQGYFYPIQIAQYGLSHYSKNLTEKPPHIEVYETAE  
DRDKNKPNDWTVPGCFMANVADKSRFTNVKQFIAPETSEGVSLQLGNTKDFIISFDLKF  
LTNGSVSVVLETTTEKNQLFTIHVVSNAQLIAFKERDIYYGIGPRTSWSTVTRDLVTDLRK  
GVGLSNTKAVKPTKIMPKKVRLIAKKGFLDNITISTTAHMAAFFAASDWLVRNQDEKG  
GWPIMVTRKLGEGFSLPEGWYSAMAQQAISTLVRAYLLTKDHIFLNSALRATAPYKFL  
SEQHGVKAVFMNKHWDWYEEYPTTPSSFVLNGFMYSLIGLYDLKETAGEKLGKEARSLYER

GMESLKAMPLPLYDTGSGTIYDLRHFMGLIAPNLARWDYHTTHINQLQLLSTIDESPVFKE  
FVKRWKSYLKGSRAKHN

>sp|Q6ZMI3|GLDN\_HUMAN Gliomedin OS=Homo sapiens GN=GLDN PE=2 SV=1

MARGAEGGRGDAGWGLRGALAAVALLSALNAAGTVFALCQWRGLSSALRALEAQRGREQR  
EDSALRSFLAELSRAPRGASAPPQDPASSARNKRSHSGEPAPHIRAESHDLMMMTYSMV  
PIRVMVDLCNSTKGICLTGPSGPPGPPGAGGLPGHNGLDGQPGPGPKGEKGANGKRGKM  
GIPGAAGNPGERGEKGDHGLGLQNEGPPGQKGEKGDGDVNDVLLAGAKGDQGP  
PGPPGPPGPPGPPGSRRAKGPRQPSMFNGQCPGETCAIPNDDTLVGKADEKASEHHSPQA  
ESMITSIGNPVQVLKVTTETFGTWIRESANKSDDRIWVTEHFGIMVKEFKDQPSLLNGSY  
TFIHLPIYFHHGCHVYNNSLYHKGSNTLVRFEFGQETSQTLKLENALYFDRKYL  
FAN SKTYFNLAVIDEKLWIIYASSVDGSSILVAQLDERTFSVQHVNTTYPKSKAGNAFIARG  
ILYVTDTKDMRVTFADFLLGGKQINANFDLRTSQSVLAMLAYNMRDQHLYSWEDGHLMLY  
PVQFLSTTLNQ

>sp|Q04446|GLGB\_HUMAN 1,4-alpha-glucan-branching enzyme OS=Homo sapiens GN=GBE1 PE=1 SV=3

MAAPMTPAARPEDYEALNAALADVPALARLLEIDPYLKPYAVDFQRRYKQFSQILKNIG  
ENEGGIDKFSGRYESFGVHRCADGGLYCKEWAPGAEGVFLTGDFNGWNPFSYPYKKLDYG  
KWELIIPPQKNSVLVPHGSKLKVVITSKSGEILYRISPWAKYVVREGDNVNYDWIHWDP  
EHSYEFKHSRPPKPRSLRIYESHVGISSHEGKVASYKHFTCNVLPRIKGLGYNCIQLMAI  
MEHAYYASFGYQITSFFAASSRYGTPEELQELVDTAHSMGIIVLLDVVHSHASKNSADGL  
NMFDTGTDSCYFHSGRGTHDLWDSRLFAYSSWEILRFLSNIRWWLEEYRFDGFRFDGVT  
SMLYHHHGVGGFSGDYSEYFGLQVDEDALTYLMLANHLVHTLCPDSITIAEDVSGMPAL  
CSPISQGGGGFDYRLAMAIPDKWIQLLKEFKDEDWNMGDIVYTLNRRYLEKCIAYAESH  
DQALVGDKSLAFWLMDAEMYTNMSVLTPFTPVIDRGIQLHKMIRLITHGLGGEGYLNFMG  
NEFGHPEWLDPRKGNESYHYARRQFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAAP  
QAYVSEKHEGNKIIAFERAGLLFIFNFHPSKSYTDYRVGTALPGKFKIVLSDAAEYGGH  
QRLDHSTDFSEAFEHNGRPYSLLVYIPSRVALILQNVDLPN

>sp|Q8NBF1|GLIS1\_HUMAN Zinc finger protein GLIS1 OS=Homo sapiens GN=GLIS1 PE=2 SV=2

MAEARTSLSAHCRGPLATGLHPDLPLGRSLATPAPSCYLLGSEPSSGLGLQPETHLPEG  
SLKRCCVLGLPPTSPASSSPCASSDVTSIIRSSQTSVTCVNGLRSPPLTGDLGGPSKRA  
RPGPASTDSHEGSLQLEACRKASFLKQEPADSESELFGPHQQGLPPPYPLSQLPPGPSLG  
GLGLGLAGRVVAGRQACRWVDCCAAYEQQEELVRHIEKSHIDQRKGEDFTCFWAGCVRRY  
KPFNARYKLLIHMVRHSGEKPNCMFEGCSKAFSRLNLKIHLRSHTGEKPYLCQHPGCQ  
KAFSNSSDRAKHQRTHLDTKPYACQIPGCSKRYTDPSSLRKHVKAHSAKEQQVRKKLHAG  
PDTEADVLTECLVLQQLHTSTQLAASDGKGGCGLGQELLPGVYPGSITPHNGLASGLLPP  
AHDVPSRHHPLDATTSSHHLSPLPMAESTRDGLGPGLLSPIVSPLKGLGPPPLPPSSQS  
HSPGGQPFPTLPSKPSYPPFQSPPPPPLPSPQGYQGSFHSIQSCFPYGDCYRMAEPAAGG  
DGLVGETHGFNPLRPNGYHSLSTPLPATGYEALAEASCPTALPQQPSEDVVSSGPEDCGF  
FPNGAFDHCLGHIPSIYTD

>sp|Q8NEA6|GLIS3\_HUMAN Zinc finger protein GLIS3 OS=Homo sapiens GN=GLIS3 PE=2 SV=5

MMVQRLGLISPPASQVSTACNQISPSLQRAMNAANLNIPPSDTRSLISRESLASTTSLT  
ESQSASSMKQEWQGYRALPSLSNHGSQNGLDLGDLLSLPPGTSMSNSVSNLPSYLF  
TESSHSPYSPRHSSTRSHSARSKKRALSLPLSDGIGIDFNTIIRTSPTSLVAYINGSR  
ASPANLSPQPEVYGHFLGVRGSCIPQPRPVPGSQKGVLVAPGGLALPAYGEDGALEHERM  
QQLEHGGLQPGLVNHMVVQHGLPGPDSQSAGLFKTERLEEFPGSTVDLPPAPPLPPLPPP



PGPPPPYHAHAHLHHPGLGPHAAQQLALPQATLDDDGEMDGIGGKHCCRWIDCSALYDQQE  
ELVRHIEKVHIDQQRKGEDFTCFWAGCPRRYKPFNARYKLLIHMVHSGEKPNKCTFEGCE  
KAFSRLLENLKIHLRSHTGEKPYLCQHGPCQKAFSNSSDRAKHQRTHLDTKPYACQIPGCT  
KRYTDPSSLRKHVKAHSSKEQQAARKKLRSSTELHPDLLTDCLTVQSLQPATSPRDAAG  
TVGRSPGPGPDLYSAPIFSSNYSSRSCTAAGAVPPPHVSHPSPGHNVQGSHPNPSSQLP  
PLTAVDAGAERFAPSAPSPHHISPRRVPAPSSILQRTQPPYTQQPSGSHLKSYPETNSS  
FQPNGIHVHGFYGLQKFCPPHYPDSQRIVPPVSSCSVVPSEFEDCLVPTSMGQASFDVFH  
RAFSTHSGITVYDLPSSSSSLFGESLRSGAEDATFLQISTVDRCPSQLSSVYTEG

>sp|Q92990|GLMN\_HUMAN Glomulin OS=Homo sapiens GN=GLMN PE=1 SV=2

MAVEELQSIKRCQILEEQDFKEEDFGLFQLAGQRCIEEGHTDQLEIIQNEKNKVIK  
MGWNLVGPVVRCLCKDKEDSKRKVYFLIFDLLVKLCNPKELLGLLELIEEPSGKQISQ  
SILLLLQLPQTVIQKLHNKAYSIGLALSTLWNQLSLLPVYSKEQIQMDDYGLCQCKAL  
IEFTKPFVEEVIDNKENSLNEKLKDELKFCFKSLKCPLTAQFFEQSEEGNDPFRYF  
ASEIIGFLSAIGHPPFKMIFNHRKKRTWNYLEFEEENKQLADSMASLAYLVFVQGIHI  
DQLPMVLSPLYLLQFMGHIEVFLQRTEESVISKLELLENSLLRIEDNSLLYQYLEIKS  
FLTVPQGLVKVMTLCPIETLRKKSAMLQLYINKLDSQGKYTLFRCLLNTSNHSGVEAFI  
IQNIKNQIDMSLKRTRNNKWFPGQLISLLDLVFLPEGAETDLLQNSDRIMASLNLLRY  
LVIKDNENDNQTGLWTELGNIEENFLKPLHIGLNMSKAHYEAEIKNSQEAQKSKDLCSIT  
VSGEEIPNMPPEMQLKVLHSAFTFDLIESVLARVEELIEIKTKSTSEENIGIK

>sp|Q8WWB7|GLMP\_HUMAN Glycosylated lysosomal membrane protein OS=Homo sapiens GN=GLMP  
PE=1 SV=1

MRSVTECTWGWGHCAPSPLLLWTLFFFAPFGLGKTRQVSLEVIPNWLGPLQNLHHR  
AVGTNSTLHYVWSSLGPLAVVMVATNTPHSTLSVNWSSLLSPEPDGGLMVLPKDSIQFSS  
ALVFTRLLEFDSTNVSDTAAPLGRPYPPYSLADFSWNNITDSLDPATLSATFQGHMND  
PTRTFANGSLAFRVQAFSRSSRAQPPRLLHTADTCQLEVALIGASPRGNRSFLGLEVAL  
LGQGPDCPSMQEQHSIDDEYAPAVFQLDQLLWGSPLSGFAQWRPVAYSQKPGGRESALPC  
QASPLHPALAYSLPQSPIVRAFFGSQNNFCANLTFGASTGPGYWDQHYLSWSMLLGVG  
PPVDGLSPLVLGIMAVLALGAPGLMLLGGGLVLLHKKYSEYQIN

>sp|O43716|GATC\_HUMAN Glutamyl-tRNA(Gln) amidotransferase subunit C, mitochondrial  
OS=Homo sapiens GN=GATC PE=1 SV=1

MWSRLVWLGLRAPLGRQGFTSKADPQGSGRITAAVIEHLERLALVDFGSREAVARLEKA  
IAFADRLRAVDTDGVEPMESVLEDRCLYLRSNDNVEGNCADPELLQNSHRVVEEYFVAPP  
NISLPKLDEQEPFPHS

>sp|Q02153|GUCYB1\_HUMAN Guanylate cyclase soluble subunit beta-1 OS=Homo sapiens  
GN=GUCY1B3 PE=1 SV=1

MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIIYDDSKTYDLVAAASKVLN  
LNAGEILQMFGKMFVFCQESGYDTILRVLGSNVREFLQNLDAHDHLATIPGMRAPSF  
RCTDAEKKGKGLILHYYSEREGLQDIVIGIIKTVAQQIHGTEIDMKVIQQRNEECDHTQFL  
IEEKESKEEDFYEDLDRFEENGTEQESRISPYTFCKAFPFHIIFDRDLVVTQCGNAIYRVL  
PQLQPGNCSLLSVFSLVRPHIDISFHGILSHINTVFVLRSEGLLDVEKLECEDELGTGTE  
ISCLRLKGQMIYLPEADSIIFLCSPSVMNLDLTRRGYLSDIPLHDATRDVLVLLGEQFR  
EEYKLTQELEILTDLRLTLRALEDEKKKTDLLYSVLPPSVANELRHKRPVPAKRYDNV  
TILFSGIVGFNAFCSKHASGEGAMKIVNLLNDLYTRFDLTDSRKNPFVYKVTGVDKYM  
TVSGLPEPCIHHARSICHLALDMMIEIAGVQVDGESVQITIGIHTGEVVTGVIGQRMPLY

CLFGNTVNLTSRTETTGEKGKINVSEYTYRCLMSPENDPQFHLEHRGPVSMKGKKEPMQ  
VWFLSRKNTGTEETKQDDD

>sp|Q9UK05|GDF2\_HUMAN Growth/differentiation factor 2 OS=Homo sapiens GN=GDF2 PE=1 SV=1  
MCPGALWVALPLLSLLAGSLQGKPLQSWGRGSAGGNAHSPLGVPGGGLPEHTFNLKMFLE  
NVKVDFLRSLNLSGVPSQDKTRVEPPQYMIDLYNRYTSKSTTPASNIVRSFSMEDAISI  
TATEDFPFQKHILLFNISIPRHEQITRAELRLYVSCQNHVDPSHDLKGSVVIYDVLDTGTD  
AWDSATETKTFVLSQDIQDEGWETLEVSSAVKRWVRSDSTKSKNKLEVTVESHRKGCCTL  
DISVPPGSRNLPFFVVSNDHSSGTKETRELELREMISHEQESVLKKLSKDGSTEAGESSH  
EEDTDGHVAAGSTLARRKRSAGAGSHCQKTSLRVNFEDIGWDSWI IAPKEYEAYECKGGC  
FFPLADDVTPTKHAIVQTLVHLKFPTKVGKACCVPTKLSPISVLYKDDMGVPTLKYHYEG  
MSVAECGCR

>sp|P43026|GDF5\_HUMAN Growth/differentiation factor 5 OS=Homo sapiens GN=GDF5 PE=1 SV=3  
MRLPKLLTFLWYLAWLDLEFICTVLGAPDLGQRPQGTRPGLAKAEAKERPPLARNVFRP  
GGHSYGGGATNANARAKGGTGQTGGLTQPKKDEPKLPPRPGPEPKPGHPPQTRQATAR  
TVTPKGQLPGGKAPPKAGSVSSFLKKAREPGPPREPKEPFRPPPITPHEYMLSLYRTL  
SDADRKGGNSSVKLEAGLANTITSFIDKGQDDRGPVVRKQRYVFDISALEKDGLLGAELR  
ILRKKPSDTAKPAAPGGGAAQLKLSSCPSGRQPASLLDVRVPGLDGSGWEVFDIWKLF  
RNFKNSAQLCLELEAWERGRAVDLRGLGFDRAARQVHEKALFLVFGRTKKRDLFFNEIKA  
RSGQDDKTVEYELFSQRRKRRAPLATRQGKRPSKNLKACSRKALHVNFKDMGWDDWIIA  
PLEYEAHFCEGLCEFLRSHLEPTNHAIVQTLMNMSMDPESTPPTCCVPTRLSPISILFID  
SANNVVKQYEDMVVESCGR

>sp|O14793|GDF8\_HUMAN Growth/differentiation factor 8 OS=Homo sapiens GN=MSTN PE=1 SV=1  
MQKLQLCVYIYFLMLIVAGPVDLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQI  
LSKLRLETAPNISKDVIQQLPKAPPLRELIDQYDVQRDDSSDGSLEDDDYHATTETIIT  
MPTESDFLMQVDGKPKCCFFKFSSKIYQNKVKAQLWIYLRPVETPTTVFVQILRLIKPM  
KDGTRYTGIRSLKDMNPGTGIWQSIDVKTVLQNWLKQPESNLGIEIKALDENGHDLAVT  
FPGPGEDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIA  
PKRYKANYCSGECEVFVLQKYPHTLHVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQII  
YGKIPAMVVDRCGCS

>sp|O60383|GDF9\_HUMAN Growth/differentiation factor 9 OS=Homo sapiens GN=GDF9 PE=1 SV=1  
MARPNKFLWFCCFAWLCFPIISLGSQASGGEAQIAASAELESAMPWSLLQHIDERDRAG  
LLPALFKVLSVGRGGSPRLQPDSRALHYMKLYKTYATKEGIPKSNRSHLYNTVRLFTPC  
TRHKQAPGDQVTGILPSVELLNLDRITTEHLLKSVLLYNINNSVSFSSAVKVCNLMI  
KEPKSSRTLGRAPYSFTFNSQFEFGKKHKWIIQIDVTSLLQPLVASNKRSIHMSINFCTM  
KDQLEHPSAQNGLFNMTLVSPSLILYLNDTSAQAYHSWYSLHYKRRPSQGPQERSLSAY  
PVGEEAAEDGRSSSHRHRRGQETVSELKKPLGPASFNLSYFRQFLLPQNECELHDFRL  
SFSQLKWDNWIVAPHRYNPRYCKGDCPRAVGHRYGSPVHTMVQNI IYEKLDSSVPRPSCV  
PAKYSPLSVLTIEPDGSIAYKEYEDMIATKCTCR

>sp|Q7L5L3|GDPD3\_HUMAN Glycerophosphodiester phosphodiesterase domain-containing protein  
3 OS=Homo sapiens GN=GDPD3 PE=2 SV=3  
MSLLLYALPALGSYAMLSIFFLRRPPLLHTPRAPTFRIRLGAHRGGSSELLENTMEAME  
NSMAQRSDLLELDCQLTRDRVVVSHDENLCRQSGLNRDVGSLDFEDLPLYKEKLEVYFS  
PGHFAHGSRRMVRLEDLFQRFPRTMSVEIKGKNEELIREIAGLVRRYDRNEITIWASE  
KSSVMKKCKAANPEMPLSFTISRFGFWLLSYLGLLPFIPIPEKFFFCFLPNIINRTYFP

FSCSCLNQLLAVVSKWLIMRSLIRHLEERGQVVFVWCLNEESDFAAFSVGATGVITDY  
PTALRHYLDNHGPAARTS

>sp|P52306|GDS1\_HUMAN Rap1 GTPase-GDP dissociation stimulator 1 OS=Homo sapiens  
GN=RAP1GDS1 PE=1 SV=3

MDNLSDTLKKLKITAVDKTEDSLEGCLDCLLQALAQNNNTETSEKIQASGILQLFASLLTP  
QSSCKAKVANIIEVAKNEFMRI PCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDS  
HEGRSAVDQAGGAQIVIDHLRSLCSITDPANEKLLTVFCGMLMYSNENDSLQAQLINMG  
VIPTLVKLLGIHCQNAALTEMCLVAFGNLAELESSKEQFASTNIAEELVKLFKKQIEHDK  
REMIFEVLAPLAENDA IKLQLVEAGLVECLLEIVQQKVDSDKEDDITELKTGSDLMVLLL  
LGDESMQKLFEGGKGSVFRVLSWIPSNNHQLQLAGALAIANFARNDANCIHMVDNGIVE  
KLMDLLDRHVEDGNVTVQHAALSALRNLAIPVINKAKMLSAGVTEAVLKFLKSEMPVQF  
KLLGTLRMLIDAQAEAAEQLGKNVKLVERLVEWCEAKDHAGVMGESNRLLSALIRHSKSK  
DVIKTIVQSGGIKHLVTMATSEHVIMQNEALVALALIAAELGTAEKDLES AKLVQILHR  
LLADERSAPEIKYNSMVLICALMGSECLHKEVQDLAFLDVVSKLRSHENKSVAQQASLTE  
QRLTVES

>sp|Q8TEQ6|GEMI5\_HUMAN Gem-associated protein 5 OS=Homo sapiens GN=GEMIN5 PE=1 SV=3

MGQEPRTLPPSPNWYCARCSDAVPGGLFGFAARTSVFLVRVGP GAGESPGTPPFRVIGEL  
VGHTERVSGFTFSHPGQYNLCATSSDDGT VKIWDVETKT VVTEHALHQHTISTLHWSPR  
VKDLIVSGDEKGVVFCYWFNRNDSQH LFI EPR TIFCLTCSPHHEDLVAIGYKDGIVVIID  
ISKKEGVIHRLRGHDEIHSIAWCPLPGEDCLSINQEETSEEAEITGNNAVAQAPVTKGC  
YLATGSKDQTIRIWSCSRGRGMILKLPFLKRRGGGIDPTVKERLWLT LHWPSNQPTQLV  
SSCFGGELLQWDLTQSWRRKYTLFSASSEGNHSRIVFNLCP LQTEDDKQLLLSTSM DRD  
VKCWDIATLECSWTLPSLGGFAYS LAFSSVDIGSLAIGVGDGMIRVWNTLSIKNNYDVKN  
FWQGVKSKVTALCWHPTKEGCLAFGTDDGKVG LYDTYSNKPPQISSTYHKKT VYT LAWGP  
PVPPMSLGGEGDRPSLALYSCGGEGIVLQHNPWKLSGEAFDINKLIRDTNSIKYKLPVHT  
EISWKADGKIMALGNEDGSIEIFQIPNLKLICTIQQHHKL VNTISWHHEHGSQPELSYLM  
ASGSNNAVIYVHNLKTVIESSPESPVTITEPYRTL SGHTAKITSVAWSPHHDGRLVSASY  
DGTAQVWDALREEPLCNFRGHRGRLLCVAWSPLDPDCIYSGADDFCVHKWLTSMQDHSRP  
PQGKKSIELEKKRSLQPKAKPKKKKKPTLRTPVKLESIDGNEEESMKENSGPVENGVS DQ  
EGEEQAREPELPCGLAPAVSREPVICTPVSSGFEKSKVTINNKVILLKKEPPKEKPETLI  
KKRKARSLLPLSTSLDHRSEELHQDCLVLATAKHSREL NEDVSADVEERFHLGLFTDRA  
TLYRMIDIEGKGHLENGHELFHQMLMLWKGDLKGV LQTAAERGELTDNLVAMAPAAGYHV  
WLWAVEAFKQLCFQDQYVKAASHLLSIHKVYEAVELLKSNHFYREAI AIAKARLRPEDP  
VLKDLYLSWGTVLERDGHYAAAKCYLGATCAYDAAKVLAKKGDAASLR TAAELAAIVGE  
DELSASALRCAQELLLANNWVGAQEALQLHESLQGQRLVFCLLELLSRHLEEKQLSEGK  
SSSSYHTWNTGTGEPFVERVTAVWKSIFSLDTPEQYQEA FQKLQNIKYP SATNNTPAKQL  
LLHICHDLTLAVLSQQMASWDEAVQALLRAVVRSYDSGSFTIMQEVSAFLPDGCDHLRD  
KLGDHQSPATPAFKSLEAFFLYGRLYEFWWSLSRPCPNSSVWVRAGHRTLSVEPSQQLDT  
ASTEETDPETSQPEPNRPS ELDLRLTEGERMLSTFKELFSEKHASLQNSQRTVAEVQET  
LAEMIRQHQS QLCSTANGPDKNEPEVEAEQPLCSSQSQC KEEKNEPLSLPELTKRLTE  
ANQRMAKFPESIKAWPPFDVLECCLVLLLIRSHFPGCLAQEMQQQAQELLQKYGNTKTYR  
RHCQTFCM

>sp|Q9NWZ8|GEMI8\_HUMAN Gem-associated protein 8 OS=Homo sapiens GN=GEMIN8 PE=1 SV=1

MAAVKASTSKATRPWYSHPVYARYWQHYHQAMAWMQSHHNAYRKAVESCFNLPWYLP SAL

LPQSSYDNEAAYPQSFYDHHVAWQDYPCSSSHFRRSGQHPRYSSRIQASTKEDQALSKEE  
EMETESDAEVECDLSNMEITEELRQYFAETERHREERRRQQQLDAERLDSYVNADHDLYC  
NTRRSVEAPTERPGERRQAEMKRLYGDSAAKIQAMEAAVQLSFDKHCDRKQPKYWVPIPL  
KF

>sp|Q9NQX3|GEPH\_HUMAN Gephyrin OS=Homo sapiens GN=GPHN PE=1 SV=1  
MATEGMILTNHDHQIRVGVLTVDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKIVP  
DEIEEIKETLIDWCDEKELNLILTGGTGFAPRDVTPEATKEVIEREAPGMALAMLMGSL  
NVTPLGMLSRPVCGIRGKTLIINLPGSKKGSQECFQFILPALPHAIDLRLDAIVKVKEVH  
DELEDLPSPPPPLSPPTTSPHKQTEDKGVQCEEEEEKKDSGVASTEDSSSSHITAAAI  
AAKIPDSIISRGVQVLPRTASLSTTPSESPRAQATSRLSTASCPTPKVQSRCSSKENIL  
RASHSAVDITKVARHRMSPFPLTSMDFKAFITVLEMPVLGTEIINYRDGMGRVLAQDVY  
AKDNLPPFPASVKDGYAVRAADGPGDRFIIIGESQAGEQPTQTMVPGQVMRVTTGAPIPCG  
ADAVVQVEDTELIRESDDGTEELEVRILVQARPGQDIRPIGHDIKRGEVLAAGTHMGPS  
EIGLLATVGVTEVEVNKFPVAVMSTGNELNPEDDLLPGKIRDSNRSTLLATIQEHEGYP  
TINLGIVGDNPDLLNALNEGISRADVIITSGGVSMGEKDYLKQVLDIDLHAQIHFGRVF  
MKPGLPTTFATLDIDGVRKIIIFALPGNPVSAVVTCLNFVVPALRKMQGILDPRPTIIKAR  
LSCDVKLDPRPEYHRCILTWHHQEPLPWAQSTGNQMSSRLMSMRANGLMLLPKTEQYV  
ELHKGEVVDVMVIGRL

>sp|O00451|GFRA2\_HUMAN GDNF family receptor alpha-2 OS=Homo sapiens GN=GFRA2 PE=2 SV=2  
MILANVFCLFFFLDETLRLSLASPSLQGPGLHGWPPVDCVRANELCAAESNCSSRYRTL  
RQCLAGRDRNTMLANKECQAALVLEQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGE  
EFYEASPYEPVTSRLSDIFRLASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRS  
YISICNREISPTERCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPS  
CSYEDKEKPNCLDLRGVCRTHLRCRSLADFHANCASYQTVTSCPADNYQACLSYAGM  
IGFDMTPNYVDSSPTGIVVSPWCSCRGSGNMEECEKFLRDTENPCLRNAIQAFNGTD  
VNVSPKGPSFQATQAPRVEKTPSLPDDLSDSTSLGTSVITTCSTVQEQGLKANNKELSM  
CFTELTTNIIIPGSNKVIKPNSGPSRARPSAALTIVLSVLMLKLAL

>sp|O60609|GFRA3\_HUMAN GDNF family receptor alpha-3 OS=Homo sapiens GN=GFRA3 PE=1 SV=2  
MVRPLNPRPLPPVLMLLLLPPSPLPLAAGDPLPTESRLMNSCLQARRKCQADPTCSAA  
YHHLDSCTSSISTPLPSEEPSVPADCLEAAQQLRNSSLIGCMCHRRMKNQVACLDIYWTV  
HRARSLGNYELDVSPYEDVTSTKPKMNL SKLNMLKPDSDLCLKFAMLCITLNDKCDRLRK  
AYGEACSGPHCQRHVCLRQLLTFEKAAPHAQGLLLCPCAPNDRGCGERRRNTIAPNCA  
LPPVAPNCLELRRLCFSDPLCRSLVDFQTHCHPMDILGTCATEQSRCLRAYLGLIGTAM  
TPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHNPCLTEAIAAKMRFHSQLFSQDW  
PHPTFAVMAHQENPAVRPQPWPVPSLFSCTLPLILLLSLW

>sp|A6NEY3|GG6L3\_HUMAN Putative golgin subfamily A member 6-like protein 3 OS=Homo sapiens  
GN=GOLGA6L3 PE=5 SV=3  
MWPQPRLPHPAMSEKTQQGKLAAAKKKLKAYWQRKSPGIPAGANRKKKINGSSPDAT  
GGYHSPGDSATGIYGEGRASSTLEDLESQYQELAVALDSSSAIIISQLTENINSLVRTSK  
EEKKHEIHLVQKLGRSLFKLNQTAEPLAPEPPAGPSKVEQLQDET NHLRKELESVGRQL  
QAEVENNQMLSLNRRQEERLREQEERLREQEERLREQEERLCEQEERLREQEERLREQE  
ERLCEQEERLREHEERLCEQEERLCEQEERLREQEERLHEQEERLCEQEERLREQEERLC  
EQEERLREQEERLCEQEERLREQEERLCEQEKLPGQERLLEEVEKLLEQERRQEEQERLL  
ERERLLEEVEKLLEQERRQEEQERLLEREELLDEVEELLEQERLRQQDERLWQQETLQEL

ERLRELERMLELGWEALYEQRAEPRSGFEELVRCPTWGGCPLP

>sp|Q9UJY4|GGA2\_HUMAN ADP-ribosylation factor-binding protein GGA2 OS=Homo sapiens  
GN=GGA2 PE=1 SV=3

MAATAVAAAVAGTESAQGPPGPAASLELWLNKATDPSMSEQDWSAIQNFCEQVNTDPNGP  
THAPWLLAHKIQSPQEKEALYALTVMCMNHCGEKFHSEVAKFRFLNELIKVLSPKYLG  
SWATGKVKGRVIEILFSWTVWFPEDIKIRDAYQMLKKQGIKQDPKLPVDKILPPSPWP  
KSSIFDADEEKSKLLTRLLKSNHPEDLQAANRLIKNLVKEEQEKSEKVSKRVSAREEVRS  
HVKVLQEMLSMYRRPGQAPPDQEQALQVVYERCEKLRPTLFRLASDTTDDDDALAEILQAN  
DLTQGVLLYKQVMEGRVTFGNRTSSLDIPVSRVFQNPAGCMKTCPLIDLEVDNGPAQ  
MGTVPVPSLLHQDLAALGISDAPVTGMVSGQNCCEEKRNPSSSTLPGGGVQNPASDRNLLD  
LLSAQPAPCPLNYVSQKSVPKVEPPGKSSPGWSWEAGPLAPSPSSQNTPLAQVFVPLES  
VKPSSLPPLIVYDRNGFRILLHFSQTGAPGHPEVQVLLLTMMSTAPQVWDIMFQVAVPK  
SMRVKLQPASSSKLPAFSPLMPPAVISQMLLLDNPHKEPIRLRYKLTFNQGGQPFSEVGE  
VKDFPDLAVLGAA

>sp|Q5JRK9|GEE3\_HUMAN Putative G antigen family E member 3 OS=Homo sapiens GN=PAGE2B  
PE=3 SV=1

MSEHVRTRSQSSERGNDQESSQPVGSVIVQEPTTEKRQEEEPPTDNQGIAPSGEIEENEGA  
PAVQGPDMFAFQELALLKIEDEPGDGPVREGIMPTFDLTKVLEAGDAQP

>sp|P13284|GILT\_HUMAN Gamma-interferon-inducible lysosomal thiol reductase OS=Homo  
sapiens GN=IFI30 PE=1 SV=3

MTLSPLLLFLPPLLLLLDVPTAAVQASPLQALDFFGNGPPVNYKTGNLYLRGPLKKSNA  
LVNVTLYYEALCGGCRAFLIRELFTWLLVMEILNVTLVPYGNAQEQNVSGRWEFKCQHG  
EEECKFNKVEACVLDELDMEALFTIVCMEEFEDMERSLPLCLQLYAPGLSPDTIMECAM  
GDRGMQLMHANAQRTDALQPPHEYVPWTVNGKPLEDQTQLTLVCQLYQGKPKDVCPS  
TSSLRSVCFK

>sp|Q8NHV1|GIMA7\_HUMAN GTPase IMAP family member 7 OS=Homo sapiens GN=GIMAP7 PE=1 SV=1

MAESEDRLRIVLVGKTGSGKSATANTILGEEIFDSRIAAQAVTKNCQKASREWQGRDLL  
VVDTPGLFDTKESLDTTCKEISRCIISCPGPHATVLVLLGRYTEEEQKTVALIKAVFG  
KSAMKHMVILFTRKEELEGQSFHDFIADADVGLKSIVKECGNRCCAFSNSKKTSKAEKES  
QVQELVELIEKMQCNEGAYFSDDIYKDTEERLKQREEVLRKIYTDQLNEEIKLVEEDKH  
KSEEEKEKEIKLLKLKYDEKIKNIREEAERNIFKDFVFNRIWKMLSEIWHRFLSKCKFYSS

>sp|Q8ND71|GIMA8\_HUMAN GTPase IMAP family member 8 OS=Homo sapiens GN=GIMAP8 PE=2 SV=2

MSEQSCQMSELRLLLGKCRSGKSATGNAILGKHVFKSKFSDQTVIKMCQRESWVLREK  
VVVIDTPDLFSSIAAEDKQRNIQHCELSAPSLHALLLVIAIGHFTREDEETAKGIQV  
FGAEARRHIIIVFTRKDDLGDLLQDFIEKNKPLQLVQDYEGRYCIFNNKTNKDEQIT  
QVLELLRKVESLVNTNGGPYHVNFKTEGSRFQDCVNEAASQEGDKPQGPRERQLQSTGPE  
QNPGTSELTVLLVGKRGAGKSAAGNSILGRQAFQTGFSEQSVTSFLESRSWRKKKVS  
IDAPDISSLNIDSEVRKHICTGPHAFLLVTPLGFYTKNDEAVLSTIQNNFGEKFFEYMI  
ILLTRKEDLGDQDLDTFLRNSNKALYGLIQCKNRYSAFNRYRATGEEQRADELLEKIE  
SMVHQNGNKHCVFREKETLNIIVLVGRSGTGKSATGNSILGSLVFTSRLRAQPVTKTSQSG  
RRTWDGQEVVVVDTPSFNQMLDVEKDPRLSEEVKRLSCCEKGDFTFFLVFQLGRFTEE  
DKTAVAKLEAIFGADFTKYAIMLFTRKEDLGAGNLEDFMKNNDKALRRIFKKCGRRVCA  
FNNKETGQAQETQVKALLTKVNDLRKESGWSGYPHTQENVSKLIKNVQEMSQAELLLNL  
IGILQ

>sp|014908|GIPC1\_HUMAN PDZ domain-containing protein GIPC1 OS=Homo sapiens GN=GIPC1 PE=1 SV=2

MPLGLGRRKKAPPLVENEEAEPGRGGLGVGEPGLGGGSGGPQMGLPPPPALRPRLVF  
HTQLAHGSPTGRIEGFTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLE  
DFIFAHVKGQRKEVEVFKSEDALGLTITDNGAGYAFIKRIKEGSVIDHIHLISVGMIEA  
INGQSLLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRSAGGRPGSGPQLGTGR  
GTLRLRSRGPATVEDLPSAFEKAIEKVDDLLESYMGIIRDTELAATMVELGDKRNPDEL  
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

>sp|Q9Y2X7|GIT1\_HUMAN ARF GTPase-activating protein GIT1 OS=Homo sapiens GN=GIT1 PE=1 SV=2

MSRKGPRAEVCADCSAPDPGWASISRGVLVCDECCSVHRSLGRHISIVKHLRHSAPPTL  
LQMVHTLASNGANSIWEHSLLDPAQVQSGRRKANPQDKVHPKSEFIRAKYQMLAFVHKL  
PCRDDDGVTAKDLSKQLHSSVRTGNLETCLRLSLGAQANFFHPEKGTPLHVAAGQT  
LQAELLVVYGADPGSPDVNGRTPIDYARQAGHHELAERLVECYELTDRLAFYLCGRKPD  
HKNGHYIIPQADSLDLSELAIAKKKLQALSNRLFEELAMDVYDEVDRRENDVWLATQ  
NHSTLVTERSAPVFLPVNPEYSATRNQGRQKLARFNAREFATLIIDILSEAKRRQKGKSL  
SSPTDNLELSLRSQSDLDQHDYDSVASDEDDTQEPLRSTGATRSNRARSMDSSDLSGGA  
VTLQEYLELKKALATSEAKVQQLMKVNSSLDELRLRLQREIHKLQAENLQLRQPPGPVPT  
PPLPSERAHTPMAPGGSTHRRDRQAFSMYEPGSALKPFGGPPGDELTRLQPFHSTELE  
DDAIYSVHVPAGLYRIRKGVSAVFPFTSSPLSCSQEGSRHTSKLSRHGSGADSDYEN  
TQSGDPLLGLEGRFLELGKEEDFHPELESLDGDLDPGLPSTEDVILKTEQVTKNIQELL  
RAAQEFKHDSFVPCSEKIHLAVTEMASLFPKRPALEPVRSSLRLNANASAYRLQSECRKT  
PPEPGAPVDFQLLTQQVIQAYDIAKAAKQLVTITTREKKQ

>sp|Q9NS71|GKN1\_HUMAN Gastrophilin-1 OS=Homo sapiens GN=GKN1 PE=2 SV=3

MLAYSSVHCFREDKMKFTIVFAGLLGVFLAPALANYNINVNDDNNNAGSGQSVSVNNEH  
NVANVDNNGWDSWNSIWDYNGFAATRLFQKKTCIVHKMNKEVMPSIQSLDALVKEKKL  
QGKGPGGPPPKGLMYSVNPNKVDLSEKFGKNIANMCRGIPTYMAEEMQEASLFFYSGTCY  
TTSVLWIVDISFCGDTVEN

>sp|P15104|GLNA\_HUMAN Glutamine synthetase OS=Homo sapiens GN=GLUL PE=1 SV=4

MTTSASSHLNKGKIQVYMSLPQGEKVQAMYIWDGTGEGLRCKTRTLDSEPKCVELPEW  
NFDGSSTLQSEGSNDMYLVPAAMFRDPFRKDPNKLVLCEVFKNRRPAETNLRHTCKRI  
MDMVSNQHPWFGMEQEYTLMGTDGHPFGWPSNGFPGPGPYCGVGADRAYGRDIVEAHY  
RACLYAGVKIAGTNAEVMPAQWFEQIGPCEGISMGDHLWVARFILHRVCEDFGVIATFDP  
KPIPGNWNAGCHTNFSTKAMREENGLKYIEEAIEKLSKRHQYHIRAYDPKGGLDNARRL  
TGFHETSNINDFSAGVANRSASIRIPRTVGQEKKGYFEDRRPSANCDPFSVTEALIRTCL  
LNETGDEPFQYKN

>sp|P35754|GLRX1\_HUMAN Glutaredoxin-1 OS=Homo sapiens GN=GLRX PE=1 SV=2

MAQEFVNCKIQPGKVVFVFIKPTCPYCRAQEILSQLPIKQGLLEFVDITATNHTNEIQDY  
LQQLTGARTVPRVFIGKDCIGGCSDLVSLQQSGELLTRLKQIGALQ

>sp|Q8IUC8|GLT13\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 13 OS=Homo sapiens GN=GALNT13 PE=2 SV=2

MRRFVYCKVVLATSLMWVLVDVFLLLYFSECNKCDDKKERSLLPALRAVISRNQEGPGEM  
GKAVLIPKDDQEKMKELFKINQFNLMSDLIALNRSPLDVRLEGCKTKVYPDELNPTS  
VIVFHNEAWSTLLRTVYSVINRSPHYLLSEVILVDDASERDFLKLTLNENYVKNLEVPVKII

RMEERSGLIRARLRGAAASKGQVITFLDAHCECTLGWLEPLLARIKEDRKTVCPIIDVI  
SDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKGDRTL PVRTPTMAGGLFSIDRN  
YFEEIGTYDAGMDIWGGENLEMSFRIWQCGGSLEIVTCSHVGHVFRKATPYTFPGGTGHV  
INKNNRRRLAEVWMDFEKDFYIISPGVVKVDYGDVSVRKTLRNLKCKPFSWYLENIYPD  
SQIPRRYYSLGEIRNVETNQCLDNMGRKENEKVGIFNCHGMGGNQVFSYTADKEIRTDLL  
CLDVSRLNGPVIIMLKCHHMRGNQLWEYDAERLTLRHVNSNQCLDEPSEEDKMVPTMQDCS  
GSRSQWLLRNMTLGT

>sp|Q8N3T1|GLT15\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 15 OS=Homo sapiens  
GN=GALNT15 PE=2 SV=2

MLLRKRYRHRPCRLQFLLLLLMLGCVLMMVAMLHPPHHTLHQTVTAQASKHSPEARVRLD  
FGESQDWVLEAEDEGEEYSPLEGLPPFISLREDQLLVAVALPQARRNQSGRRGGSYRLI  
KQPRRQDKEAPKRDWGADEDEGEVEEEELTPFSLDPRGLQEALSARIPLQRALPEVRHPL  
CLQQHPQDSLPTASVILCFHDEAWSTLLRTVHSILDTVPRAFLKEIILVDDLSQQGQLKS  
ALSEYVARLEGVKLLRSNKRGLAIRARMLGATRATGDVLVFMDAHCECHPGWLEPLLSRI  
AGDRSRVVSPIIDVIDWKTFFQYPSKDLQRGVLDWKLDHFWEPLPEHVRKALQSPISPIR  
SPVVPGEVVAMDRHYFQNTGAYDSLMSLRGGENLELSFKAWLCGGSVAILPCSRVGHYIQ  
NQDSSHPLDQEATLRNRVRIAETWLSFKETFYKHSPEAFSLSKAEKPCMERLQLQRRRL  
GCRTFHWFLANVPELYPSEPRPSFSGKLHNTGLGLCADCAEGDILGCPMVLAPCSDSR  
QQQYLQHTSRKEIHFGSPQHLCFAVRQEQVILQNCTEEGLAIHQHWFQENGMIVHILS  
GKCMEAVVQENNDLYLRPCDGKARQQWRFDQINAVDER

>sp|P01275|GLUC\_HUMAN Glucagon OS=Homo sapiens GN=GCG PE=1 SV=3

MKSIYFVAGLFVMLVQGSWQSLQDTEEKSRFSASQADPLSDPDQMNEKRRHSQGTFTS  
DYSKYLDSSRAQDFVQWLMNTKRNRRNIIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFI  
AWLVKGRGRRRDFPEEVAIVEELGRRHADGSFSDENMTILDNLAARDFINWLIQTKITDRK

>sp|P61952|GBG11\_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-  
11 OS=Homo sapiens GN=GNG11 PE=1 SV=1

MPALHIEDLPEKEKLKMEVEQLRKEVKLQRQQVSKCSEIKNYIEERSGEDPLVKGIPED  
KNPFKEKGSCVIS

>sp|Q8N5D6|GBGT1\_HUMAN Globoside alpha-1,3-N-acetylgalactosaminyltransferase 1 OS=Homo  
sapiens GN=GBGT1 PE=2 SV=2

MHRRRLALGLGFCLLAGTSLSVLVVYLENWLVPVSYVPYYLPCPEIFNMKLHYKREKPLQP  
VVWSQYPQPKLLEHRPTQLLTLTPWLAPIVSEGTFNPELLQHIYQPLNLTIGVTVFAVGK  
YTHFIQSFLSAEEFFMRGYRVHYIFTDNPAAVPGVPLGPHRLSSIPQGHSHWEETS  
MRRMETISQHIAKRAHREVDYLFCLDVMVFRNPWGPETLGDLVAAIHPSYYAVPRQQFP  
YERRRVSTAFVADSEGDFFYGGAVFGGQVARVYEFTRGCHMAILADKANGIMAAWREESH  
LNRHFISNKPSKVLSPHYLWDDRKPQPPSLKLIRFSTLDKDISCLRS

>sp|P47869|GBRA2\_HUMAN Gamma-aminobutyric acid receptor subunit alpha-2 OS=Homo sapiens  
GN=GABRA2 PE=2 SV=2

MKTKLNIYNMQFLFVFLVWDPARLVLANIQEDEAKNNITIFTRILDRLLDGYDNRLRPG  
LGDSITEVFTNIYVTSFGPVSDDMEYTDVFFRQKWKDERLKFKGPMNILRLNNLMASK  
IWPDTFFHNGKKSVAHNMTMPNKLRIQDDGTLTYMRLTVQAECPMHLEDFPMDAHSC  
PLKFGSYAYTTSEVTYIWTYNASDSVQVAPDGSRLNQYDLGQSIGKETIKSSTGEYTM  
TAHFHLKRKIGYFVIQTYLPCIMTVILSQVSFWLNRESVPARTVFGVTVLTMTTLSISA  
RNSLPKVAYATAMDWFIACVAFVFSALIEFATVNYFTKRGAWDGGKSVVNDKKKEKASV

MIQNNAYAVAVANYAPNLSKDPVLSTISKSATTPEPNKKPENKPAEAKKTFNSVSKIDRM  
SRIVFPVLFGTFLVYWATYLNREPVLGVSP

>sp|O95166|GBRAP\_HUMAN Gamma-aminobutyric acid receptor-associated protein OS=Homo sapiens GN=GABARAP PE=1 SV=1

MKFVYKEEHPFEKRRSEGEKIRKKYPDRVPVIVEKAPKARIGDLDDKKYLVPSDLTVGQF  
YFLIRKRIHLRAEDALFFFVNNVIPPTSATMGQLYQEHHEEDFFLYIAYSDESIVYGL

>sp|P18507|GBRG2\_HUMAN Gamma-aminobutyric acid receptor subunit gamma-2 OS=Homo sapiens GN=GABRG2 PE=1 SV=2

MSSPNIWSTGSSVSTPVFSQKMTVWILLLSLYPGFTSQKSDDDYEDYASNKTWVLTTPK  
VPEGDVTVILNNLEGYDNKLRPDIGVKPTLIHTDMYVNSIGPVNAINMEYTTIDIFFAQT  
WYDRRLKFNSTIKVLRNLSNMVGKIWIPDTFFRNSKKADAHWITTPNRMLRIWNGRVLV  
TLRLTIDAECQLQLHNFPMDHSCPLEFSSYGYPREEIVYQWKRSSVEVGDTRSWRLYQF  
SFVGLRNTTEVVKTTSGDYVVMVSYFDLSRRMGYFTIQTYPCTLIVVLSWVSFWINKDA  
VPARTSLGITTTLTMTLSTIARKSLPKVSYVTAMDLFVSVCIFVFSALVEYGLHYFV  
SNRKPSKDKDKKKKNPAPTIDIRPRSATIQMNNATHLQERDEEYGYECLDGKDCASFFCC  
FEDCRTGAWRHGRIHIRIAKMDSYARIFFPTAFCLFNLVYVWSYLYL

>sp|Q9BY60|GBRL3\_HUMAN Gamma-aminobutyric acid receptor-associated protein-like 3 OS=Homo sapiens GN=GABARAPL3 PE=2 SV=1

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRRKYLVPSDLTDGQF  
YLLIRKRIHLRPEDALFFFVNNTIPTTSATMGQLYEDSHEEDDFLYVAYSNESIVYGL

>sp|O00591|GBRP\_HUMAN Gamma-aminobutyric acid receptor subunit pi OS=Homo sapiens GN=GABRP PE=2 SV=1

MNYSLHLAFVCLSLFTERMCIQGSQFNVEVGRSDKLSLPGFENLTAGYNKFLRPNFGGEP  
VQIALTLDIASISSISESNMDYTATIYLRQRWMDQRLVFEGNKSFTLDARLVEFLWVPDT  
YIVESKKSFLHEVTGNRLIRLFSNGTVLYALRIITTTVACNMDLSKYPMDTQTCKLQLES  
WGYDGNDEFTWLRGNSVRGLEHLRLAQYTIERYFTLVTRSQQETGNYTRLVLQFELRR  
NVLYFILETYVPSTFLVLSWVSFWISLDSVPARTCIGVTTVLSMTTLMIGSRTSLPNTN  
CFIKAIDVYLIGCFVFGALLEYAVAHYSSLQMAAKDRGTTKEVEEVSITNIINSSIS  
SFKRKISFASIEISSDNVDYSDLTMTKTSDFKFFVREKMGRIVDYFTIQNPSNVDHYSKL  
LFPLIFMLANVFYWAYMYF

>sp|P24046|GBRR1\_HUMAN Gamma-aminobutyric acid receptor subunit rho-1 OS=Homo sapiens GN=GABRR1 PE=2 SV=2

MLAVPNMRFGIFLLWWGVLATESRMHWPGRVHEMSKKGRPQRQRREVHEDAHKQVSP  
LRRSPDITKSPLTKSEQLLRIDHDFSMRPGFGGPAIPVGVDVQVESLDSISEVMDFTM  
TLYLRYHWKDERLSFPSTNNLSMTFDGRLVKKIWPDMFFVHSKRSFIHDTTDDNVMLRV  
QPDGKVLVSLRVTVTAMCNMDFSRLPLDTQTCSLEIESYAYTEDDLMLYWKKGNDLSKTD  
ERISLSQFLIQEFHTTTKLAFYSSTGWYNRLYINFTLRRHIFFFLLQTYFPATLMVMSW  
VSFWDIDRAVPARVPLGITTTLTMTSTIITGVNASMPRVSYIAVDIYLWVSFVFLSVL  
EYAAVNYLTTVQERKEQKLREKLPCSTGLPPPTAMLDGNYSDGEVNDLDNYMPENGEKP  
DRMMVQLTLASERSSPQRKSQRSSVSMRIDTHAIDKYSRIIFPAAYILFNLIIYSIFS

>sp|A8MPY1|GBRR3\_HUMAN Gamma-aminobutyric acid receptor subunit rho-3 OS=Homo sapiens GN=GABRR3 PE=3 SV=2

MVLAFLVLSFTYIWIILKPNVCAASNIKMTHQRCSSSMKQTCKQETRMKKDDSTKARPQK  
YEQLLHIEDNDFAMRPGFGGSPVPVGVIDVHVESIDSISETNMDFTMTFYLRHYWKDERLS



FPSTANKSMTFDHRLTRKIWVPDIFFVHSKRSFIHDTTMENIMLRVHPDGNVLLSLRITV  
SAMCFMDFSRFPLDTQNCSELESYAYNEDDLMLYWKHGKNSLNTTEHMSLSQFFIEDFS  
ASSGLAFYSSGTWYNRLFVFLRRHVFFFVLQTYFPAILMVMLSWVSFWIDRRVAVPARV  
SLGITTVLTMSTIITAVSASMPQVSYLKAVDVYLWVSSLFVFLSVIEYAAVNYLTVEER  
KQFKKTGKISRMYNIDAVQAMAFDGCYHDSEIDMDQTSLSLNSSEDFMRRKSICSPSTDSS  
RIKRRKSLGGHVGRILENNHVIDTYSRILFPIVYILFNLFYWGVYV

>sp|P52951|GBX2\_HUMAN Homeobox protein GBX-2 OS=Homo sapiens GN=GBX2 PE=2 SV=3

MSAAFPPSLMMQRPLGSSTAFSIDSLIGSPPQSPGHFVYTGYPMPYRPVVLPPPPP  
PPPALPQAALQPALPPAHPHHQIPSLPTGFCSSLAQGMALTSTLMATLPGGFSASPQHQE  
AAAARKFAPQPLPGGGNFDKAEALQADAEDGKGFLAKEGSLLAFSAAETVQASLVGAVRG  
QKGDESKVEDDPKGKEESFSLESDVDYSSDDNLTGQAAHKEEDPGHALEETPPSSGAAGS  
TTSTGKNRRRRRTAFTSEQLLELEKEFHCKKYLSTERSQIAHALKLEVQVKIWFQNRRA  
KWKRVKAGNANSKTGEPSRNPKIVVPIPVHVSRAIRSQHQLEQARP

>sp|Q14397|GCKR\_HUMAN Glucokinase regulatory protein OS=Homo sapiens GN=GCKR PE=1 SV=6

MPGTRKFQHVIEPPEPGKWELSGYEAAPVITEKSNPLTQDLKADAENIVRLLGQCDAEI  
FQEEGQALSTYQRLYSESILTMTMVQVAGKVQEVLPKEPDGGLVVLSGGTSGRMAFLMSVS  
FNQLMKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHGIEELKKVAAGKKRVIVIGISV  
GLSAPFVAGQMDCCMNNTAVFLPVLVGFNPVSMARNDPIEDWSSTFRQVAERMQKMKEKQ  
KAFVLNPAIGPEGLSGSSRMKGGSATKILLETLLAAHKTVDQGIAASQRCLLEILRTFE  
RAHQVTYSQSPKTIATLMKSVSTSLEKKGHVYLVGWQTLGIIAIMDGVETIHTFGADFRDV  
RGFLIGDHSDMFNQKAEALTNGQPFTFSQEDFLTSLPSLTEIDTVVFIFTLDDNLTEVQ  
TIVEQVKEKTNHIQALAHSTVGQTLPIPLKKLFPSIIISITWPLLFFEYEGNFIQKFQREL  
STKWVLNTVSTGAHVLLGKILQNHMLDLRISNSKLFWRALAMLQRFSGQSKARCIESLLR  
AIHFPQPLSDDIRAAPISCHVQVAHEKEQVPIALLSLLFRCSITEAQAHLAAAPSVCEA  
VRSALAGPGQKRTADPLEILEPDVQ

>sp|Q9NP62|GCM1\_HUMAN Chorion-specific transcription factor GCMa OS=Homo sapiens GN=GCM1  
PE=2 SV=1

MEPDDFDSSEKILSWDINDVKLPQNVKKTDFQEWPDYAKHIYSSSEDKNAQRHLSSWA  
MRNTNNHNSRILKKSCLGVVVCGRDCLAEGRKIYLRPAICDKARQKQKRKCPNCDGPL  
KLIPCRGHGGFPVTNFWRHDRGRIFFQSKGEHDHPKPKETKLEAEARRAMKKVNTAPSSVS  
LSLKGSTETRSLPGETQSQGSPLTWSFQEGVQLPGSYSGHLIANTPQQNSLNDGFSFSK  
SYLGGITDLTDQSTVDPMKLYEKRKLSSRTYSSGDLPPSASGVYSDHGLQAWSKN  
AALGRNHLADNCYSNYPFLTSWPCSFSPSQNSSEPFYQQLPEPPAAKTGCPPLWPNPA  
GNLYEEKVHVDNSYVQSPAYHSPQEDPFLFTYASHPHQQYSLPSKSSKWDFFEEMTYLG  
LDHCNNDMLLNLCPLR

>sp|Q96CW5|GCP3\_HUMAN Gamma-tubulin complex component 3 OS=Homo sapiens GN=TUBGCP3 PE=1  
SV=2

MATPDQKSPNVLLQNLCCRILGRSEADVAQQFQYAVRVIGSNFAPTVERDEFLVAEKIKK  
ELIRQRREADAALFSELHRKLHSQGVLNKWSILYLLLSLSEDPRRQPSKVSSYATLFAQ  
ALPRDAHSTPYYYARPQTLPLSYQDRSAQSAQSSSGVSGSSGSIIGLCALSGPAPAPQSL  
LPGQSNQAPGVGDCLRQQLSRLAWTLTANQPSSQATTSGKVPSAVSRNMTRSREGDTG  
GTMEITEAALVRDILYVFQGIDGKNIKMNNTENCYKVEGKANLSRSLRDTAVRLSELGWL  
HNKIRRYTDQRSIDRSFGLVGQSFCAALHQELREYYRLLSVLHSQLLEDDQGVNLGLES  
SLTLRRLLVWTYDPKIRLKTALALVDHCQGRKGELASAVHAYTKTGDPMRSLVQHILS

LVSHPVLSFLYRWIYDGELEDTYHEFFVASDPTVKTDRWLHDKYTLRKSMIPSFMTMDQS  
RKVLLIGKSINFLHQVCHDQTPTTKMIAVTKSAESPQDAADLFTDLENAFQGKIDAAAYFE  
TSKYLLDVLNKKYSLLDHMQAMRRYLLLGQGDFIRHLMDDLKPELVRPATTLYQHNLGTI  
LETAVRATNAQFDSPEILRRLDVRLLLEVSPGDTGWDVFSLDYHVDGPIATVFTRECMHY  
LRVFNFLWRAKRMEYILTDIRKGHMCNAKLLRNMPFSGVLHQCHILASEMVHFIHQMQY  
YITFEVLECSWDELWNKVQQAQDLDHIIAAHEVFLDTIISRCLLSDSRALLNQLRAVFD  
QIIELQNAQDAIYRAALEELQRRQLQFEEKKKQREIEGQWGVTAEEEEENKRIGEFKESI  
PKMCSQLRILTHFYQGIVQQFLVLLTTSSDESLRFLSFRLDFNEHYKAREPRLRVSLGTR  
GRRSSHT

>sp|Q96RT8|GCP5\_HUMAN Gamma-tubulin complex component 5 OS=Homo sapiens GN=TUBGCP5 PE=1  
SV=1

MARHGPPWSRLDAQQERDVRELVRGVAGLQDEADPNFQLALNFAWSNFRFHRFLDVNSHK  
IEKTIIEGIYEKFVIHSDLSKAASWKRLTEEFNLAPLSIKEIKTDAHYSILSLLLCLSDS  
PSNSSYVETPRNKEVEKKDDFDWGKYLMEDEEMDIGPYMDTPNWSESEEEENDQQPLSRE  
DSGIQVDRTPLEEQDQNRKLDPCISWKDEPDDRSWLEHHVVHQYWTARPSQFPHSLHLHS  
NLAAVWDQHLYSSDPLYVPDDRVLVTETQVIRETLWLLSGVKKLFIQQLIDGKVTVRNNI  
IVTHLTHSCLRSVLEQIAAYGQVVFRLQEFIDEVMGHSSSMLPGSGSVPKKSTEAPFRT  
YQAFMWALYKYFISFKEELAEIEKCIINNDTTITLAIIVDKLAPRLSQLKVLHKVFSTGV  
AEVPPDTRNVVRASHLLNTLYKAILEYDNVGEASEQTVSLLFSLWVETVRPYLQTVDEWI  
VHGHLWDGAREFIIQRKNKVPVNRHDFWYATYTLYSVSEKTENEEKMSDNASASSGSDQG  
PSSRQHTMVSFLKPVKQIIMAGKSMQLLKNLQCAESTTCQAGARDAERKSLYTLFLESV  
QSRLRHGEDSTPQVLTEQQATKENLMKMQSIAESHLELDDVHDPLLAINFARMYLEQSDF  
HEKFAGGDVCDRSSESVTCQTFELTLRSCLYPHIDKQYLDCCGNLMQTLKKDYRLVEYL  
QAMRNFFLMEGGDTMYDFYTSIFDKIREKETWQNVSFLNVQLQEAVGQRYPEDSSRLSIS  
FENVDTAKKKLPVHILDGLTLYKVPWPVDIVISLECQKIYNQVFLLLLQIKWAKYSLDV  
LLFGELVSTAEPRLKEGLIHEQDTVAQFGPQKEPVRQIHRMFLLRVKLMHFVNSLHNY  
IMTRILHSTGLEFQHQVEEAKDLQLIKIHRYRLSTIHDRCLLREKVSFVKEAIMKVLNL  
ALMFADGWQAGLGTWRMESIEKMESDFKNCHMFLVTILNKAVCRGSPHLESLALSMLAG  
MEQS

>sp|P04150|GCR\_HUMAN Glucocorticoid receptor OS=Homo sapiens GN=NR3C1 PE=1 SV=1

MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRR  
LLVDFPKGVSNAQQPDLKAVSLSMGLYMGETETKVMGNDLGFPQQGQISLSSGETDLK  
LLEESIANLNRSTSVPENPKSSASTAVSAAPEKEFPKTHSDVSSEQQHLKGQTGTNGGN  
VKLYTTDQSTFDILQDLEFSSGSPGKETNESPWRSDLLIDENCLLSPLAGEDDSFLEGN  
SNEDCKPLILPDTKPKIKDNGDLVLSSPSNVTLPQVKTEKEDFIELCTPGVIKQEKLGTV  
YCQASFPGANIIGNKMSAISVHGVTSGGQMYHYDMNTASLSQQQDQKPIFNVIPPIPVG  
SENWNRQCQSGDDNLTSLGTLNFPGRTVFSNGYSSPSMRPDVSSPPSSSSTATTGPPPKL  
CLVCSDEASGCHYGVLTCGCKVFFKRAVEGQHNYLCAGRNDICIIDKIRRNKCPACRYRK  
CLQAGMNEARKTKKKIKGIQATTGVSQETSENPKNKTIVPATLPQLTPTLVSLLEVIE  
PEVLYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDQMNTLLQYSW  
MFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELHRLQVSY  
EEYLCMKTLTLLSSVPKDGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQLTK  
LLDSMHEVVENLLNYCFQTFLDKTMSIEFPEMLAEIITNQIPKYSNGNIKKLLFHQK

>sp|P48728|GCST\_HUMAN Aminomethyltransferase, mitochondrial OS=Homo sapiens GN=AMT PE=1 SV=1

MQRAVSVVARLGFRLQAFPPALCRPLSCAQEVLRRTPLYDFHLAHGGKMVAFAGWSLPVQ  
YRDSHTDShLHTRQHCSLFDVSHMLQTKILGSDRVKLMESLVVGDIAELRPNQGTLSTLFT  
NEAGGILDDLIVTNTSEGHLYVVSNAGCWEKDLALMQDKVRELQNQGRDVGLEVLNALL  
ALQGPTAAQVLQAGVADDLRKLPFMTSAVMEVFGVSGCRVTRCGYTGEDGVEISVPVAGA  
VHLATAILKNPEVKLAGLAARDSLRLEAGLCLYGNDIDEHTTPVEGSLSWTLGKRRRAAM  
DFPGAkVIVPQLKGRVQRRRVGLMCEGAPMRAHSPILNMEGTKIGTVTSGCPSPSLKKNV  
AMGYVPCEYSRPGTMLLVEVRRKQQMAVVS KMFPVPTNYITLK

>sp|Q5U4N7|GDF50\_HUMAN Protein GDF50S, mitochondrial OS=Homo sapiens GN=GDF50S PE=2 SV=2

MIQSSQPMSLKLTCsAFRLQRALRFLLGRLPWRVASGARRFRRLNRYsYTVLSSWPERA  
LISLKNRSRFLVRPNTRNRAFswTCRAARSKPRPRRSTALPRSQASSRHsWAEFLKFRK  
SFQMSNTSQPDSPRPGTERTSSKEAGCRPLGQLDSFSWAARPPPGAAGLAVSEGFFRKIR  
SSAPSSPSFSRALMSNTYLCLFTTGPRSSRENTQKSFPATSPREPvTSRLRGKAPALSPS  
RELSFTSAPF

>sp|P50395|GDIB\_HUMAN Rab GDP dissociation inhibitor beta OS=Homo sapiens GN=GDI2 PE=1 SV=2

MNEEYDVIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESASITPLEDLyKRfKIPG  
SPPEsMGRGRDWNVDLIPKFLMANGQLVKMLLYTEVTRYLDFKVTEGSFVYKGGKIYKVP  
STEAELASSLMGLFEKRRFRKFLVYVANFDEKDPRTFEGIDPKKTTMRDVYKKFDLGQD  
VIDFTGHALALYRTDDYLDQPCYETINRIKLYSESLARYGKSPYLYPLYGLGELPQGFAR  
LSAIYGGTYMLNKPIEEIIIVQNGKVIgVKSEGEIARCKQLICDPSYVKDRVEKVGQVIRV  
ICILSHPIKNTNDANSCQIIIPQNQVNRKSDIYVCMISFAHNVAAGKYIAIVSTTVETK  
EPEKEIRPALELLEPIEQKFVSISDLLVPKDLGTESQIFISRTYDATTHFETTCDdIKNI  
YKRMTGSEFDfEEMKRKKNDIYGED

>sp|P06396|GELS\_HUMAN Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNsMVVEHPEFL  
KAGKEPGLQIWRVEKFDLVPVPTNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNEC  
SQDESGAAAIFTVQLDDYLNGRAVQHREvQGfESATFLGYFKSGLKYKKGGVASGFKHVV  
PNEVVVQRLFQVKGRRVVRATEVPVSWESFNNGDCFILDLGNNIHQWCGSNSNRYERLKA  
TQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAA NRKLAKL  
YKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALK  
TASDFITKMDYPKQTQVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERV  
PFDAATLHTSTAMAAQHGMDDGTGQKIWRIEGSNKVPVDPATYGGFYGGDSYIIILYNY  
RHGGRQGQIIYNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQGKEPAHLSLFG  
GKPMIIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPKAGALNSNDAFVLKTPS  
AAYLWVG TGASEAEKGAQELLRLVRAQPVQVAEGSEPdGfWEALGGKAAyRTSPRLKDK  
KMDAHPPrLFAcsNKIGRFVIEEvPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEEK  
TEALTSAKRYIETDPANRDRRTPITVVKQGFEPpSFVGWFLGWDDDYWSVDPLDRAMAEL  
AA

>sp|P57678|GEMI4\_HUMAN Gem-associated protein 4 OS=Homo sapiens GN=GEMIN4 PE=1 SV=2

MDLGPLNICEEMTILHGGFLLAEQLFHPKALAE LTKSDWERVGRPIVEALREISSAAAHs  
QPFAWKKKALIIIWAKVLQPHPVTPSDTETRWQEDLFFSVGNMIPTINHTILFELLKSLE  
ASGLFIQLLMALPTTICHAELERFLEHVTVDTSaEDVAFFLDVWWEVMKHKGHPQDPLLS

QFSAMAHKYLPADEFPHPPKRLRSDPDACPTMPLLAMLLRGLTQIQSRILGPGRKCCAL  
ANLADMLTVFALTEDDPQEVSATVYLDKLATVISVWNSDTQNPYHQQALAEKVKEAERDV  
SLTSLAKLPSETIFVGCFLHLLREWGEEQLQAVLRSSQGTSYDSYRLCDSLTSFSQNT  
LYLNRTSLSKEDRQVVSLEAECVRDFLRKTSTVLKNRALEDITASIAMAVIQKMDRHME  
VCYIFASEKKWAFSDEWVACLGSNRALFRQPDVLRLLETVIDVSTADRAIPESQIRQVI  
HLILECYADLSLPGKNKVLGILRSWGRKGLSEKLLAYVEGFQEDLNTTFNQLTQSASEQ  
GLAKAVASVARLVIVHPEVTVKKMCSLAVVNLGTHKFLAQILTAFPALRFVEEQGPNSSA  
TFMVSLKETVWMKFSTPKEEKQFLELLNCLMSPVKPQGIPVAALLEPDEVLKEFVLPFL  
RLDVEEVDLSLRIFIQTLEANACREEWLQTCSPFPLFLSLCQLLDRFSKYWQLPEKRC  
LSLDRKDLAIHILELLCEIVSANAETFSPDVWIKSLSWLHRKLEQLDWTVGLRLKSFEG  
HFKCEVPATLFEICKLSEDEWTSQAHPGYGAGTGLLAWMECCCVSSGISERMLSLLVVDV  
GNPEEVRLFSKGFVALVQVMPWCSPQEWQRLHQLTRRLEKQLLHVPYSLEYIQFVPLL  
NLKPFAQELQLSVLFLRTFQFLCSHSCRDWLPLEGWNHVVKLLCGSLTRLLDSVRAIQAA  
GPWVQGPEQDLTQEALFVYTQVFCHALHIMAMLHPEVCEPLYVLALETLCYETLSKTNP  
SVSSLLQRAHEQRFLKSIAEGIGPEERRQTLLQKMSSF

>sp|Q8IVV7|GID4\_HUMAN Glucose-induced degradation protein 4 homolog OS=Homo sapiens  
GN=GID4 PE=2 SV=1

MCARGQVGRGTQLRTGRPCSQVPGSRWRPERLLRRQRAGGRPSRPHPARARPGLSLPATL  
LGSRAAAVPLPLPPALAPGDPAMPVRTECPPPAGASAASAASLIPPPINTQQPGVATS  
LLYSGSKFRGHQKSKGNSYDVEVVLQHVDTGNSYLCGYLKIKGLTEEYPTLTTFEGEII  
SKKHPFLTRKWDADVDVRKHGKFLAFYQYAKSFNSDDFDYEELKNGDYVFMRWKEQFL  
VPDHTIKDISGASFAGFYICFQKSAASIEGYYYHRSSEWYQSLNLTHVPEHSAPIYEFR

>sp|Q96F15|GIMA5\_HUMAN GTPase IMAP family member 5 OS=Homo sapiens GN=GIMAP5 PE=1 SV=1

MGGFQRGKYGTMAEGRSEDNLSATPPALRIILVGKTGCGKSATGNSILGQPVFESKLRAQ  
SVTRTCQVKTGTWNGRKVLVVDTPSIFESQADTQELYKNIGDCYLLSAPGPHVLLLVIIQL  
GRFTAQDTVAIRKVEVFGTGAMRHVVILFTHKEDLGGQALDDYVANTDNCSLKDLVREC  
ERRYCAFNNWGSVEEQRQQQAELLAVIERLGREREGSFHSNDLFLDAQLLQRTGAGACQE  
DYRQYQAKVEWQVEKHQELRENESENWAYKALLRVKHLMLLHYEIFVFLLLCSILFFIIF  
LFIFHYI

>sp|Q8TF65|GIPC2\_HUMAN PDZ domain-containing protein GIPC2 OS=Homo sapiens GN=GIPC2 PE=1  
SV=1

MPLKLRGKKKAKSKETAGLVEGEPTGAGGGSLSASRAPARRLVFHAQLAHGSATGRVEGF  
SSIQELYAQIAGAFEISPSEILYCTLNTPKIDMERLLGGQLGLEDIFIAHVKGIEKEVNV  
YKSEDSLGLTITDNGVGYAFIKRIKDGGVIDSVKTCVGDHIESINGENIVGWRHYDVAK  
KLKELKEELFTMKLIEPKKAFEIELRSKAGKSSGEKIGGRATLRLRSKGPATVEEMPS  
ETKAKAIEKIDDVLELYMGIRDIDLATTMFEAGKDKVNPDEFAVALDETLGDFAFPDEFV  
FDVWGVIGDAKRRGL

>sp|P48546|GIPR\_HUMAN Gastric inhibitory polypeptide receptor OS=Homo sapiens GN=GIPR  
PE=1 SV=1

MTTSPILQLLLRLSLCGLLLQRAETGSKGQTAGELYQRWERYRRECQETLAAAEPSPGLA  
CNGSFDMYVCWDYAAPNATARASCPWYLPWHHHVAAGFVLRQCGSDGQWGLWRDHTQCEN  
PEKNEAFLDQRLILERLQVMTYVGYSLSLATLLALLILSLFRRLHCTRNYIHINLFTSF  
MLRAAAILSRDRLLPRPGPYLGDQALALWNQALAACRTAQIVTQYCVGANYSWLLVEGVY  
LHSLLVLVGGSEEGHFRYYLLLGWAPALFVIPWVIVRYLYENTQCWERNEVKAIWWIIR

TPILMTILINFLIFIRILGILLSKLRTRQMRCRDYRLRLARSTLTLPVLLGVHEVVFAPV  
TEEQARGALRFAKLGFEIFLSSFQGFVSVLYCFINKEVQSEIRRGWHHCRLRRSLGEEQ  
RQLPERAFRALPSGSGPGEVPTSRGLSSGTLPGPGNEASRELESYC

>sp|Q86XP6|GKN2\_HUMAN Gastroke-2 OS=Homo sapiens GN=GKN2 PE=1 SV=2

MKILVAFLVLTIFGIQSHGYEVFNIISPSNNGGNVQETVTIDNEKNTAIIINHAGSCSS  
TTIFDYKHGYIASRVLSRRACFILKMDHQNIPLNNLQWYIYEKQALDNMFSSKYTWVKY  
NPLESLIKDVDFLLGSPIEKLCKHIPLYKGEVVENTHNVGAGGCAKAGLLGILGISICA  
DIHV

>sp|Q68CQ7|GL8D1\_HUMAN Glycosyltransferase 8 domain-containing protein 1 OS=Homo sapiens  
GN=GLT8D1 PE=1 SV=2

MSFRKVNIIILVLAVALFLLVLHHNFLSLSSLLRNEVTD SGIVGPQPIDFVPNALRHAVD  
GRQEEIPVIAASEDRLGGAIAAINSIQHNTSRNVIFYIVTLNNTADHLRSWLNDSLSKS  
IRYKIVNFDPKLLEGKVKEDPDQGESMKPLTFARFYLPILVPSAKKAIYMDDDVIVQGDI  
LALYNTALKPGHAAAFSEDCDSASTKV VIRGAGNQNYIGYLDYKKERIRKLSMKASTCS  
FNPGVFVANLTEWKRQNI TNQLEKWMKLNVEEGLYSRTL AGSITTPPLLIVFYQQHSTID  
PMWNVRLHGSAGKRYSPQFVKA AKLLHWNGHLKPWGRTASYTDVWEKWI PDPTGKFNL  
IRRYTEISNIK

>sp|Q6UWU2|GLB1L\_HUMAN Beta-galactosidase-1-like protein OS=Homo sapiens GN=GLB1L PE=2  
SV=1

MAPKKLSCLRSLLLPLSLTLLLPQADTRSFVDRGHRFLLDGAPFRYVSGSLHYFRVPR  
VLWADRLLKMRWSGLNAIQFYVPWNYHEPQPGVYNFNGSRDLIAFLNEAALANLLVILRP  
GPYICAEWEMGGLPSWLLRKPEIHLRTSDPDFLA AVDSWFKVLLPKIYPWLYHNGGNIIS  
IQVENEYGSYRACDFSYMRHLAGLFRALLGEKILLFTTDGPEGLKCGSLRGLYTTVD FGP  
ADNMTKIFTLLRKYEHPGLVNSEYYTGWLDYWGQNHSTRSVSAVTKLENMLKLGASVN  
MYMFHGGTNFGYWGADKKGRFLPITTSYDYDAPISEAGDPTPKLFALRDVISKFQEVPL  
GPLPPSPKMMGLPVTLHLVGHLLAFLDLLCPRGPIHSILPMTFEAVKQDHGFMLYRTYM  
THTIFEPTPFVPPNNGVHDRAYVMVDGVFQGVVERNMRDKLFTGKLGSKLDILVENMGR  
LSFGSNSDDFKGLLKPPILGQTILTQWMMFPLKIDNLVKKWFPLQLPKWPYPQAPSGPTF  
YSKTFPILGSVGDFTFLYLPGWTKQVWINGFNLGRYWTQGPQQTLYVPRFLLFPRGALN  
KITLLELEDVPLQPQVQFLDKPILNSTSTLHRTHINSLSADTLSASEPMELSGH

>sp|P54826|GAS1\_HUMAN Growth arrest-specific protein 1 OS=Homo sapiens GN=GAS1 PE=2 SV=2

MVAALLGGGGEARGGTVP GAWLCLMALLQLLGSAPRGSLAHGRRLICWQALLQCQGEPE  
CSYAYNQYAEACAPVLAQHGGGDAPGAAAAAFPASAASFSSRWRCPSHCISALIQLNHTR  
RGALED CDCAQDENCKSTKRAIEPCLPRTSGGGAGGPGAGGVMGCTEARRRCDRSRCN  
LALSRYLTYCGKVFNGLRCTDECRTVIEDMLAMPKAALLNDCVCDGLERPICESVKENMA  
RLCFGAELGNPGSSGSDGGLDDYDEYDDEQRTGGAGGEQPLDDDDGVPHPPRPGSGA  
AASGGRGDLPGPGRRSSGGGRLAPRGAWTPLASILLLLLGPLF

>sp|P32239|GASR\_HUMAN Gastrin/cholecystokinin type B receptor OS=Homo sapiens GN=CCKBR  
PE=1 SV=1

MELLKLNRSVQGTGPGPGASLCRPGAPLLNSSSVGNLSCEPPRIRGAGTRELELAIRITL  
YAVIFLMSVGGNMLIIVVLGLSRRLRTVTNAFLLSLAVSDLLAVACMPFTLLPNLMGTF  
IFGTVICKAVSYLMGVSVSVSTLSLVAIALERYSAICRPLQARVWQTRSHAARVIVATWL  
LSGLLMVPYPVYTVVQPVGPRVLQCVHRWPSARVRQTWSVLLLLLLFFIPGVVMAVAYGL  
ISRELYLGLRFDGSDSDSQSRVRNQGLPGAVHQNGRCRPETGAVGEDSDGCYVQLPRS

RPALELTALTAPGPGSGSRPTQAKLLAKKRVVRMLLVIVVLFFLCWLVPVYSANTWRAFDG  
PGAHRALSGAPISFIHLLSYASACVNPLVYCFMHRRFRQACLET CARCCPRPPRARPRAL  
PDEDPTPTSIASLSRLSYTTISTLGGPG

>sp|Q9NZC3|GDE1\_HUMAN Glycerophosphodiester phosphodiesterase 1 OS=Homo sapiens GN=GDE1  
PE=1 SV=1

MWLWEDQGGLGPFSLLLVLLLVTSPVNACLLTGSLFVLLRVFSFEPVPSCRALQVLK  
PRDRISAIAHRGGSHDAPENTLAAIRQAAKNGATGVELDIEFTSDGIPVLMHDNTVDRTT  
DGTGRLCDLTFEQIRKLNPAANHRLRNDPDEKIPTLREAVAECLENNHNTIFFDVKGHAH  
KATEALKKMYMEFPQLYNNSSVCSFLPEVIYKMRQTD RDVITALTHRPSLSHTGDGKPR  
YDTFWKHFI FVMMDILLDWSMHNLWYLCGISAFMLQKDFVSPAYLKKWSAKGIQVVGWT  
VNTFDEKSYYESHLGSSYITDSMVEDCEPHF

>sp|P35573|GDE\_HUMAN Glycogen debranching enzyme OS=Homo sapiens GN=AGL PE=1 SV=3

MGHSKQIRILLNEMEKLEKTLFRLEQGYELQFRLGPTLQGKAVTVYTNYPFPGETFNRE  
KFRSLDWNPTEREDDSKYCKLNLQQSGSFQYYFLQNEKSGGGYIVVDPILRVGADNH  
VLPLDCVTLTQTLAKCLGPFDEWESRLRVAKESGYNMIHFTPLQTLGLSRSCYSLANQLE  
LNPDFSRPNRKYTWNDVGQLVEKLKKEWNVICITDVVYNHTAANSKWIQEHPECAYNLVN  
SPHLKPAWVLDRALWRFSCDVAEGKYKEKGI PALIENDHHMNSIRKIIWEDIFPKLKLWE  
FFQVDVNKAVEQFRRLLTQENRRVTKSDPNQHLTI IQDPEYRRFGCTVDMNIALTTFIPH  
DKGPAAIEECNWFHKRMEELNSEKHRLINYHQEQAVNCLLGNVFYERLAGHGPKLGPVT  
RKHPLVTRYFTFPFEEIDFSMEESMIHLPNKACFLMAHNGWVMGDDPLRNFAEPGSEVYL  
RRELICWGDSVKLRYGNKPEDCPYLWAHMKKYTEITATYFQGVRLDNCHSTPLHVAEYML  
DAARNLQPNLYVVAELFTGSEDLDNVFVTRLGISSLIREAMSAYNSHEEGR LVRYGGEP  
VGSFVQPCRPLMPAIAHALFMDITHDNECPIVHRSAYDALPSTTIVSMACCASGSTRGY  
DELVPHQISVSVSEERFYTKWNPEALPSNTGEVNFQSGIIAARCAISKLHQELGAKGFIQV  
YVDQVDEDIVAVTRHSPSIHQSVVAVSRTAFRNPKTSFYSKEVPQMCIPGKIEEVVLEAR  
TIERNTKPYRKDENSINGTPDITVEIREHIQLNESKIVKQAGVATKGPNEYIQEIEFENL  
SPGSVII FRVSLDPAHQVAVGILRNHLTQFSPHFKSGSLAVDNADPILKIPFASLASRLT  
LAELNQILYRCESEEKEDGGGCDIPNWSALKYAGLQGLMSVLA EIRPKNDLGHPFCNNL  
RSGDWMIDYVSNRLISRSGTIAEVGKWLQAMFFYLKQIPRYLIPCYFDAILIGAYTTLLD  
TAWKQMSSFVQNGSTFVKHLSLGSVQLCGVGKFPSPILSPALMDVPYRLNEITKEKEQC  
CVSLAAGLPHFSSGIFRCWGRDFTIALRGILLITGRYVEARNIILAFAGTLRHGLIPNLL  
GEGIYARYNCRDAVWWLQCIQDYCKMVPNGLDILKCPVSRMYPTDDSAPLPAGTLDQPL  
FEVIQEAMQKHMQGIQFRERNAGPQIDRNMKDEGFNITAGVDEETGFVYGGNRFNCGTWM  
DKMGESDRARNRGIPATPRDGS AVEIVGLSKSAVRWLELSKKNIFPYHEVTVKRHGKAI  
KVSYDEWNRKIQDNFEKLFHVSEDPSDLNEKHPNLVHKGRIYKDSYGASSPWC DYQLRPN  
FTIAMVVAPELFTTEKAWKALEIAEKLLGPLGMKTLDPDDMVYCGIYDNALDNDNYNLA  
KGFNYHQGP EWLWPIGYFLRAKLYFSRLMGPETTAKTIVLVKNVLSRHYVHLERSPWKGL  
PELTNENAQYCPFCSETQAWSIATILETLYDL

>sp|095390|GDF11\_HUMAN Growth/differentiation factor 11 OS=Homo sapiens GN=GDF11 PE=1  
SV=1

MVLAAPLLLGLLLALELRPRGEAAEGPAAAAAAAAAAAAAGVGGERSRPAPSVAPEPD  
GCPVCVWRQHSRELRLSEIKSQILSKRLKEAPNISREVVKQLLPKAPPLQQILDLHDFQ  
GDALQPEDFLEEDEYHATTETVISMAQETDPAVQTDGSPLCCHFHFSPKVMFTKVLKAQL  
WVYLRPVPRPATVYLQILRLKPLTGEGTAGGGGGGRRHIRIRSLKIELHSRSGHWQSIDF

KQVLHSWFRQPQSNWGIEINAFDPSGTDLAVTSLGPGAEGLHPFMELRVLENTKRSRRNL  
GLDCDEHSSESRCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFQMYPHTLVQ  
QANPRGSAGPCCTPTKMSPINMLYFNDKQQIIYGKIPGMVVDRCGCS

>sp|Q9NR23|GDF3\_HUMAN Growth/differentiation factor 3 OS=Homo sapiens GN=GDF3 PE=1 SV=3  
MLRFLPDLAFSFLLILALGQAVQFQEYVFLQFLGLDKAPSPQKFQPVYPYILKKIFQDREA  
AATTGVSRLCYVKELGVRGNVLRFLPDQGGFFLYPKKISQASSCLQKLLYFNLSAIKERE  
QLTLAQLGLDLGPNSYYNLGPELELALFLVQEPHVWGQTPKPGKMFVLRVWPWPQGAVH  
FNLLDVAKDWNNDNPRKNFGLFLEILVKEDRDSGVNFQPEDTCARLRCSLHASLLVVTLNP  
DQCHPSRKRRAAIPVPKLSCKNLCHRHLFIFNRDLGWHKWIIPKGFMANCHGECPPFS  
LTISLSSNYAFMQALMHAVDPEIPQAVCIPTKLSPISMLYQDNNDNVILRHYEDMVVDE  
CGCG

>sp|Q7Z4P5|GDF7\_HUMAN Growth/differentiation factor 7 OS=Homo sapiens GN=GDF7 PE=2 SV=2  
MDLSAAAAALCLWLLSACRPDGLAAAVLRAAGAGPVRSPGGGGGGGGGRTLAQAAGAA  
AVPAAAVPRARAARAAGSGFRNGSVVPHHFMSLYRSLAGRAPAGAAAVSASGHGRADT  
ITGFTDQATQDESAAETGQSFLFDVSSLNDADEVVGAELRVLRRGSPESGPGSWTSPPLL  
LLSTCPGAARAPRLYSRAAEPLVGQRWEAFDVADAMRRHRREPRPPRAFCLLLRAVAGP  
VPSPLALRRLGFGWPGGGSAAEERAVLVVSSRTQRKESLFREIRAQARALGAALASEPL  
PDPGTGTASPRAVIGRRRRRTALAGTRTAQSGGGAGRGHGRRGRSRSRKPLHVDFFE  
LGWDDWIIAPLDYEAYHCEGLCDFPLRSHLEPTNHAIQTLLNSMAPDAAPASCCVPARL  
SPISILYIDAANNVYKQYEDMVVEACGCR

>sp|P07093|GDN\_HUMAN Glia-derived nexin OS=Homo sapiens GN=SERPINE2 PE=1 SV=1  
MNWHLPLFLLASVTLPISICSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGAS  
VLGMLQLGADGRTKKQLAMVMRYGVNGVGKILKKINKAIVSKKNKDIVTANAVFVKNAS  
EIEVPFVTRNKDVFQCEVRNVNFEDPASACDSINAWVKNETRDMIDNLLSPDLIDGVLTR  
LVLVNAVYFKGLWKSRLFQENTKKRTFVAADGKSYQVPMLAQLSVFRCGSTSAPNDLWYN  
FIELPHYGESISMLIALPTESSTPLSAIIPHISTKTIDSWMSIMVPKRVQVILPKFTAVA  
QTDLKEPLKVLGITDMFDSSKANFAKITTSSENHVSILQKAKIEVSEDGTKASAATTA  
ILIASSPPWFIVDRPFLFFIRHNPTGAVLFMGQINKP

>sp|O14893|GEMI2\_HUMAN Gem-associated protein 2 OS=Homo sapiens GN=GEMIN2 PE=1 SV=1  
MRRaelAGLKTMAWVPAESAVEELMPRLLPVEPCDLTEGFDPSVPPRTPQEYLRRVQIEA  
AQCPDVVVAQIDPKLKRKQSVNISLSGCQPAPEGYSPTLQWQQQVAQFSTVRQNVNKH  
RSHWKSQQLDSNVTMPKSEDEGWKKFCLGEKLCADGAVGPATNESPGIDYVQIGFPPLL  
SIVSRMNQATVTSVLEYLSNWFGERDFTPELGRWLYALLACLEKPLLPEAHSLIRQLARR  
CSEVRLLVDSKDDERVPALNLLICLVSRFYDQRDLADEPS

>sp|Q9H840|GEMI7\_HUMAN Gem-associated protein 7 OS=Homo sapiens GN=GEMIN7 PE=1 SV=1  
MQTPVNIPVPVLRPRGPDGFSRGFAPDGRRAPLRPEVPEIQECPIAQESLESQEQRARA  
ALRERYLRSLAMVGHQVSFTLHEGVRVAAHFGATDLVDANFYVSQQLQTPIGVQAEALLR  
CSDIISYTFKP

>sp|Q06210|GFPT1\_HUMAN Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1  
OS=Homo sapiens GN=GFPT1 PE=1 SV=3  
MCGIFAYLNYHVPRTREILETLIKGLQRLEYRGYDSAGVGFDGGNDKDWEANACKIQLI  
KKKGKVKALDEEVHKQQDMDLDIEFDVHLGIAHTRWATHGEPSPVNSHPQRSKDNNEFIV  
IHNGIITNYKDLKKFLESKYDFESETDTETIAKLVKMYDNRESQDTSFTTLVERVIQQ  
LEGAFALVFKSVHFPQGAVGTRRGSPLLIGVRSEHKLSTDHIPILYRTARTQIGSKFTRW

GSQGERGKDKKSGCNLSRV DSTCLFPVEEKAVEYYFASDASAVIEHTNRVIFLEDDDDVA  
AVVDGRLSIHRIKRTAGDHPGRAVQTLQME LQQIMKGNFSSFMQKEIFEQPE SVVNTMRG  
RVNFD DYT VNLGGLDHIKEIQR CRRLIL IACGTSYHAGVATRQVLEELTELPVMVELAS  
DFLDRNTPVFRDDVCFFLSQSGETADTL MGLRYCKERGALTVGITNTVGSSISRETD CGV  
HINAGPEIGVASTKAYTSQFVSLVMFALMMCD DRISMQERRKEIMLGLKRLPDLIKEVLS  
MDDEIQKLATELYHQKSVLIMGRGYHYATC LEGALKIKEITYMHSEGILAGELKHGPLAL  
VDKLMPVIMIIMRDHTYAKCQNALQQVVARQGRPVVICDKEDTETIKNTKRTIKVPHSVD  
CLQGILSVIPLQLLAFHLAVLRGYDVDFPRNLAKSVTVE

>sp|Q9GZZ7|GFRA4\_HUMAN GDNF family receptor alpha-4 OS=Homo sapiens GN=GFRA4 PE=1 SV=2

MVRCLGPALLLLLLLGSASSVGGNRCVDAAEACTADARCQRLRSEYVAQCLGRAAQGGCP  
RARRRRALRRFFARGPPAL THALLFCPCAGPACAERRRQTFVPSCAFSGPGPAPPSCLEP  
LNCERSRVCRCARAAAGPWRGWGRGLSPAHRPPAAQASPPGLSGLVHPSAQRPRRLPAG  
PGRPLPARLRGPRGPAGTAVTPNYVDNVSARVAPWDCGASGNRREDCEAFRGLFTRNR  
CLDGAIQAFASGWPPVLLDQLNPQGDPEHSLQVSSTGRALERRSLLSILPVLALPALL

>sp|I3L273|GFY\_HUMAN Golgi-associated olfactory signaling regulator OS=Homo sapiens  
GN=GFY PE=3 SV=1

MKSFSRILFLVLLAGLRSKAAPSA PLPLGCGFPDMAHPSETSP LKGASENSKRDRLNPE  
FPGTPYPEPSKLPHTVSLETFLDFT EPLNPD LRETPHPESPETPKADSLTTSISESLDM  
PKTNLSKMAHPESSETPTPGPT EMPHPGSPETPKPNFSKTSRPEFPETPNTDLMQTTPQE  
SPEILQLNATEVSQAELPETSNTNPTKTPDPKSPEKHDLNSTETPNSEFLQALHPDP SKT  
PHPESHVTHNPSPTEISQTEFPTTYQ NATDVPRTSDPQISTSLYPETPVPFKDDATALN  
ELSLNPKPGTPAAIQPDSPKLPTSDSPGMVELKAPQNSGPKESNVPPPSARIAGPPALPG  
RPSQLAPATLRAPQRHSRGEVNTIIVVERVKETGVTLVGRPRGAAGGALCLFFAGTALL  
IGIFVLLWCLYRRAARQRPFAHHRLPDDGDEPVLHLDAPKDPYDLYFYAPDTWVPSHIAT  
KQPPPTPPLPPKLPPPPRGGRPQRLEALSPATLPNNFV

>sp|A1L429|GG12C\_HUMAN G antigen 12B/C/D/E OS=Homo sapiens GN=GAGE12B PE=1 SV=1

MSWRGRSTYYWPRPRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQCQDPAAAQEGE  
DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|A6NDE8|GG12H\_HUMAN G antigen 12H OS=Homo sapiens GN=GAGE12H PE=3 SV=1

MSWRGRSTYYWPRPRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQCQDPAAAQKGE  
DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|A8MZA4|GG6L6\_HUMAN Golgin subfamily A member 6-like protein 6 OS=Homo sapiens  
GN=GOLGA6L6 PE=3 SV=4

MLMWPQPHLPTHPLPTHPLPTHPLPTHPLTHPMMSKETRQSKLAEAKEQLTDHHP  
QTNPSVGTAASDTKKKKINNGTNPETTTSGGCHSPEDQKASHQHQEALRRELEAQVHTI  
RILTCQKTELQMALYYSQHAVKQLEGEARDLISRLHDSWKFAGELEQALSAVATQKKKAD  
RYIEELTKERDALSLELYRNTITDEELKEKNAELQEKLQVSEKSEIQLNVKELKRKLE  
RAKLLLPQQQLQAEADHLGKELQSVSAKLQAQVEENELWNRLNQQQEEKMWRQEEKIQEW  
EEKIQEQEEKIREQEEKIREQEEKMRRQEEMMWEKEEKMRRQEEMMWEKEEKMRRQEEMM  
WEKEEKIRELEEKMHQEKIREQEEKRQEEKIREQEKRQEQEAKMWRQEEKIREQEEKI  
REQEKKMWRQEEKIHEQEKIREEEKRQEQEEMWRQEEKIREQEEIWRQKEKMHEQEEKIR  
KQEEKVWRQEEKIREQEEKIREQEEKMWRQEEKIREQEEMWREEKMHQEKIWEEEKRQ  
EQEDKMWRQEEKIREQEEKVWRQEEKIREQEEKRQEQEEMWKQEEKIREQEEKIREQEE  
KIREQEEKIREQEEMTQEQEEKMGEQEEKMCEQEEKMQEQEETMWRQEEKIREQEEKIRE



QEEKIREQEEMMQEEKMWEQEEKMCEQEEKMQEQQEKMRRQEEKMWEQEVRLRQQEEK  
MQEH

>sp|Q92847|GHSR\_HUMAN Growth hormone secretagogue receptor type 1 OS=Homo sapiens GN=GHSR  
PE=1 SV=1

MWNATPSEEPGFNLTADLDWDASPGNSLGDLELLQLFPAPLLAGVTATCVALFVVGIAG  
NLLTMLVVSFRFRELRTTNLYLSSMAFSDLLIFLCMPDLVRLWQYRPWNFGDLLCKLFQ  
FVSESCYATVLTITALSVERYFAICFPLRAKVVTGKRVKLVIFVIWAVAFCSAGPIFV  
LVGVEHENGTDPWDNECRPTEFAVRSGLLTVMVWVSSIFFFLPVFCLTVLYSLIGRKLW  
RRRRGDAVVGASLRDQNHKQTVKMLAVVVFAFILCWLPFHVGRYLFSSKSFEPGSLEIAQI  
SQYCNLVSVFLFYLSAAINPILYNIMSKKYRVAVFRLGFEPPFSQRKLSLTKDESSRAWT  
ESSINT

>sp|POCG01|GKN3\_HUMAN Gastroke-3 OS=Homo sapiens GN=GKN3P PE=3 SV=1

MKHLVASSILGVFVLTPSLAMNIRFNHPLYGSFGTQIIHIGAFQGMVSIRDNNIFSEWD  
GILDYKNALLVAKVFNKMACVLARMDKAVFPSLDDISKALDKAQFKYYPSTRGLTYTVLP  
SWVKNLAAQYGKPIKNMCRDDPTYFAQQQKEGTALAIDSNSCFEIQLLSFMGLFICGETPG  
L

>sp|P48060|GLIP1\_HUMAN Glioma pathogenesis-related protein 1 OS=Homo sapiens GN=GLIPR1  
PE=1 SV=3

MRVTLATIAWMVSFVSNSHTANILPDIENEDFIKDCVRIHNKFRSEVKPTASDMLYMTW  
DPALAQIAKAWASNCQFSHNTRLKPPHKLHPNFTSLGENIWTGSVPIFSSSAITNWDYDE  
IQDYDFKTRICKKVCGHYTQVWVADSIVKVCQVFCPKVSGFDALSNGAHFICNYGPGGN  
YPTWPYKRGATCSACPNNDKCLDNLCVNRQRDQVKRYYSVVYPGWPIYPRNRYTSLFLIV  
NSVILILSVIITILVQHYPNLVLLD

>sp|Q96IJ6|GMPPA\_HUMAN Mannose-1-phosphate guanyltriferase alpha OS=Homo sapiens  
GN=GMPPA PE=1 SV=1

MLKAVILIGGPQKGRFRPLSFEVPKPLFPVAGVPMIQHHIEACAQVPGMQEILLIGFYQ  
PDEPLTQFLEAAQQEFNLPVRYLQEFAPLGTGGGLYHFRDQILAGSPEAFFVLNADVCSD  
FPLSAMLAEARRRQHPFLLLTANRTQSLNYGCIVENPQTHEVLHYVEKPSTFISDIIN  
CGIYLFSPALKPLRDVFQRNQDQGLDPSGLWPGAGTIRLEQDVFSALAGQGQIYVHL  
TDGIWSQIKSAGSALYASRLYLSRYQDTHPERLAKHTPGGPWIRGNVYIHPTAKVAPSAV  
LGPNVSIGKGVTVGEGVRLRESIVLHGATLQEHTCVLHSIVGWGSTVGRWARVEGTPSDP  
NPNDPRARMDSESLFKDGKLLPAITILGCRVRIPAEVLILNSIVLPHKELSRSTNQIIL

>sp|Q9Y5P6|GMPPB\_HUMAN Mannose-1-phosphate guanyltriferase beta OS=Homo sapiens  
GN=GMPPB PE=1 SV=2

MKALILVGGYGTRLRPLTLSTPKPLVDFCNKPILLHQVEALAAAGVDHVILAVSYMSQVL  
EKEMKAQEQRIGIRISMSHEEEPLGTAGPLALARDLLSETADPFFVLNSDVICDFPFQAM  
VQFHRHHGQEGSILVTKVEEPSKYGVVVCEADTGRIHRFVEKPQVFSNINAGMYILSP  
AVLQRIQLQPTSIEKEVFPIMAKEGQLYAMELQGFWMIDGPKDFLTGMCLFLQSLRQKQ  
PERLCSGPGIVGNVLVDPSARIGQNCISGPNVSLGPGVVVEDGVCIRRCTVLRDARIRSH  
SWLESCIVGWRCRVGQWVRMENVTVLGEDVIVNDELYLNGASVLPKHSIGESVPEPRIIM

>sp|P36959|GMPRI\_HUMAN GMP reductase 1 OS=Homo sapiens GN=GMPRI PE=1 SV=1

MPRIDADLKLDFKDVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDTVGT  
FEMAAMVMSQHSMTAIIHKHYSLDDWKLAFATNHPECLQNAVSSSGSQNDLEKMTSILEAV  
PQVKFICLDVANGYSEHFVEFVKLVRAKFEHTIMAGNVVTGEMVEELILSGADIIKVG

GPGSVCTTRTKTGVGYPLSAVIECADSAHGLKGHIISDGGCTCPGDVAKAFGAGADFVM  
LGGMFSGHTECAGEVFERNGRKLKLFYGMSSDTAMNKHAGGVAEYRASEGKTVEVPYKGD  
VENTILDILGGLRSTCTYVGAALKELSRRTAFIRVTQQHNTVFS

>sp|095837|GNA14\_HUMAN Guanine nucleotide-binding protein subunit alpha-14 OS=Homo sapiens GN=GNA14 PE=1 SV=1

MAGCCCLSAEEKESQRISAEIERQLRRDKKDARRELKLLLTGTGESGKSTFIKQMRIIHG  
SGYSDRDRKGFVKLVYQNIPTAMQAMIRAMDTLRIQYVCEQNKENAIIREVEVDKVSML  
SREQVEAIKQLWQDPGIQECYDRRREYQLSDSAKYLTLDIDRIATPSFVPTQQDVLVRV  
PTTGIIIEYPFDLENIIFRMVDVGGQRSEKRWIHCFSVTSIIIFLVALSEYDQVLAECDN  
ENRMEESKALFKTIITYPWFLNSSVILFLNKKDLLEEKIMYSHLISYFPEYTGPKQDVRA  
ARDFILKLYQDQNPDKKVIYSHFTCATDTDNIRFVFAAVKDTILQLNLREFNLV

>sp|P30679|GNA15\_HUMAN Guanine nucleotide-binding protein subunit alpha-15 OS=Homo sapiens GN=GNA15 PE=1 SV=2

MARSLTWRCPPWCLTEDEKAAARVDQEINRILLEQKKQDRGELKLLLTGPGESGKSTFIK  
QMRIIHGAGYSEEERKGRPLVYQNIQVSMRAMIEAMERLQIPFSRPEKHHASLVMSQD  
PYKVTTFEKRYAAMQWLWRDAGIRAYYERRREFHLLDSAVYYLSHLERITEEGYVPTAQ  
DVLRSRMPPTGINEYCFVQKTNLRIVDVGGQKSERKKWIHCFENVIALIYLASLSEYDQ  
CLEENNQENRMKESLALFGTILELPWFKSTSVILFLNKTDLLEEKIPTSHLATYFSPFQG  
PKQDAEAAKRFILDMYTRMYTGCVDGPEGSKKGARSRRLFSHYTCATDTQNIKRVFKDVR  
DSVLARYLDEINLL

>sp|Q12967|GNDS\_HUMAN Ral guanine nucleotide dissociation stimulator OS=Homo sapiens GN=RALGDS PE=1 SV=2

MVQRMWAEAAGPAGGAEPFLPGSRRSRSVWDAVRLEVGPDPSCPVVLSFTQLDPDLPRP  
ESSTQEIGEELINGVIYISLRKVLHGGNGGQRWLGYNESALNLYETCKVRTVKAGT  
LEKLVEHLVPAFQGSLSYVTIFLCTYRAFTTTQQVLDLLFKRYGRCDALTASSRYGCIL  
PYSDEDDGGPQDQKNAISSILGTWLDQYSEDFCQPPDFPCLKQLVAYVQLNMPGSDLERR  
AHLLEAQLHSEPIEAPEALSPVPALKPTPELELALTPARAPSPVPAPAPEPEPAPTPA  
PGSELEVAPAPAPELQQAPEPAVGLESAPAPALELEPAPEQDPAPSQTLELEPAPAPVPS  
LQPSWPSPVVAENGLSEKPHLLVFPPDLVAEQFTLMDAELFKKVVPYHCLGSIWSQRDK  
KGKEHLAPTIRATVTQFNSVANCVITTCNGNRSTKAPDRARVVEHWIEVARECRILKNFS  
SLYAILSALQSNSIHLRKKTWEDVSRDSFRIFQKLSEIFSDENNYSLRELLIKEGTSKF  
ATLEMNPKRAQKRPKETGIIQGTVPYLGFTLDLMLDTAMKDYLYGRLINFEKRRKEFE  
VIAQIKLLQSACNNYSIAPDEQFGAWFRAVERLSETESYNLSCELEPPSESASNTLRKK  
NTAIVKRWSRQAPSTELSTSGSSHSKSCDQLRCGPYLSSGDIADALSVHSAGSSSSDVE  
EINISFVPESPDGQEKKFWEASQSSPETSGLISSASSSTSSSASTTPVAATRTHKRSVS  
GLCNSSSALPLYNQVGDCIIRVSLDVDNGNMYKSILVTSQDKAPAVIRKAMDKNLEE  
EEPEDYELLQILSDDRKLKIPENANVFYAMNSTANYDFVLKKRTFTKGVKVKGASSTLP  
RMKQKGLKIAKGIF

>sp|Q5T6J7|GNTK\_HUMAN Probable gluconokinase OS=Homo sapiens GN=IDNK PE=1 SV=1

MAAPGALLVMGVSGSKSTVGALLASELGWKFYDADDYHPEENRRKMGGIPLNDQDRIP  
WLCNLHDILLRDVASGQRVVLACSALKKTYRDILTQKGDGVALKCEESGKEAKQAEMQLL  
VVHLSGSFEVISGRLLKREGHFMPPELLQSQFETLEPPAAPENFIQISVDKNVSEIATI  
METLKMK

>sp|A6NDK9|GOG6C\_HUMAN Golgin subfamily A member 6C OS=Homo sapiens GN=GOLGA6C PE=3 SV=1

MWPQPYPHPMMLEESRQNKLA AAKKKLKEYQQRKSPGIPAGAKTKKKKT DSSPETTS  
GGHSPGDSQYQELAVALESSSVTINQLNENIESLKQKKQVEHQLEEAKKTNNEI HKAQ  
MEQLETINILTLEKADLKTTLYHTKRAARHFEEESKDLAGRLQYSLQRIQELERALS AVS  
TQQQEEDRSSSCREAVLQRRLQQTIKERALLNAHVTQVTESLKQVQLERDEYAKHIKGER  
ARWQERMWKMSVEARTLKEEKKRDIHRIQELERSLSELKNQMAEPPSLAPPAVTSVVEQL  
QDEAKHLRQEVEGLEGLQSQVENNQALSLSKEQKQRLQEQEEMLREQEAQRVREQERL  
CEQNERLREQQKTLQEGERLRKQEQLRKQEERLRKEEERLQKQEKRLWDQEERLWKKE  
ERLQKQEERLALSQNHKLDKQLAEPQCSFEDLNNEKKSALQLEQQVKELQEKLDEEHLEA  
ASQRNQLETQLSLVALPGEGDGGQHL DSEEEEAPRPTPNIPEDLESREATSSFMDLPKE  
KADGTEQVERRELGFVQPSGVT DGMRESFTVYESQGAVPNTRHQEMEDVIRLAQKEEEMK  
VKLLELQELVLPVGNHEGHGKFLIAAQNPAD EPTPGAPAPQELGAAGEQDDFYEVSLDN  
NVEPAPGAAREGSPHDNPPVQQIVQLSPVMQDT

>sp|A8MQT2|GOG8B\_HUMAN Golgin subfamily A member 8B OS=Homo sapiens GN=GOLGA8B PE=2 SV=2

MAEETGQSKLAAAKKKFKEYWQRNRPVPA AAKRNTKANGSSPETAASGGCHSSEASSA  
SSSLHARQSPCQEAAVLNSRSIKISRLNDTIKSLKQKKQVEHQLEEEKKANNEKQKAE  
RELEGQIQRLNTEKKKLNTDLYHMKHSLRYFEEESKDLAGRLQRSSQRIGELWSLCAVA  
ATQKKKPDGFSSRSKALLKRQLEQSIREQILLKGHV TQLKESLKEVQLERDQYAEQIKGE  
RAQWQQRMRKMSQEVCTLKEEKHDT HRVEELERSLSRLKNQMAEPLPPDAPAVSSEVEL  
QDLRKELERVAGELQAQVENNQICISLLNRGQKERLREQEERLQEQQERLRERERLQQLA  
EPQSDLEELKHENKSALQLEQQVKELQEKLQGV METLTSAEKEPEAAVPASGTGGESSGL  
MDLLEEKADLREHVEKLELGF IQYRRERCHQKVHRL LTEPGDSAKDASPGGGHHQAGPGQ  
GGEEGEAAGAAGDVAACGSYSEGHGKFLAAARNPAAEPSPGAPAPQELGAADKHGDLCE  
ASLTNSVEPAQGEAREGSSQDNPTAQPV LQLLGEMQDHQEHPLG SNCCVPCFCWAWLPR  
RRR

>sp|A6NC78|GOG8I\_HUMAN Putative golgin subfamily A member 8I OS=Homo sapiens GN=GOLGA8IP  
PE=5 SV=2

MAEETQHNLAAAKKKLKEYWQKNSPRVPAGANRNRKTNGSIPQTATSGGCQPPGDSATG  
FHREGPTSSATLKDLESPCQERAVVLD SRSVEISQLKNTIKSLKQKKQVEHQLEEEKKA  
NIKKQKAKRVLEVQIQTLNIQKEELNTDLYHMKRSLRYFEEKSKDLAVRLQHSLQRKGEL  
ESVLSVDMATQKKKANQLSSPSKAGTEWKLEQSMREEALLKVLTQLKESFQQLQLERHE  
YAEHLKGERARWQQRMRKMSQEICTLKKEKQDMRRVEKLESLSKLKNQMAEPLPPEPP  
AVPSEVELQHLRKELERVAGALQAQVKNNQRISLLNRGQEERIREQEERLRKQEERI QEQ  
HKSLQQLAKPQSVFEEPNNENKSALQLEQQVKELQEKLGEHLEAASQQNQQLTAQLSLM  
ALPGEGHGGEHL DSEGEAPQPMPSVPEDLESREAMSSFMDHLEEKADLSELVKKKELCF  
IHHWRERCHQKTHHLLSEPGGRAKDAALGGGHHQAGAQQGDEGEAAGAAADGIAAYSNN  
NGHRKFLLAAHNPADEPGPGAPAPQELGAADKHGDLCEVSLTSSAQGEAREDPLLDKPTA  
QPIVQDHQEHPLG SNCCVPFFCWAWLPRRRR

>sp|I6L899|GOG8R\_HUMAN Golgin subfamily A member 8R OS=Homo sapiens GN=GOLGA8R PE=3 SV=1

MAEETQHNLAAAKKKLKEYWQKNSPRVPAGVNRNRKTNGSIPETATSGGCQPPGDSATG  
FHREGPTSSATLKDLESPCQERAVVLDSTSVKISRLKNTIKSLKQKKQVEHQLEEEKKA  
NNERQKAERVLEVQIQTLIIQKEELNTDLYHMERSLRYFEEESKDLAVRLQHSLQCKGEL  
ERALSAVIATEKKKANQLSSCSKAHTEWELEQSLQDQALLKAQLTQLKESFQQLQLERDE  
CAEHIEGERARWHQRMSKMSQEICTLKKEKQDMRWVEQLEWSLSKLKNQTAEPLPPEPPA  
VPSEVELQHLRKELERVAGELQSQVKNNQHISLLNRRQEERIREQEERLRKQEERLQEQH

EKLRLAKPQSVFEELNNENKSTLQLEQQVKELQEKLGEEHLEVASQQNQQLTAQLSLMA  
LPGEHGGEHL DSEGE EAPQMPSPEDPESREAMSSFMDHLKEKADLSELLKKQELRFI  
QYWQERCHQKIHLLSEPGGRAKDAALGGGHHQAGAQGGDEGEAAGAAADGIAAYSNN  
GHRKFLAAAHNSADEPGPGAPAPQELGAADKHGDLREVTLTSSAQGEAREDPLLDKPTAQ  
PIVQDHQEHPLGSGNCCVPLFCWAWLPRRRR

>sp|Q92805|GOGA1\_HUMAN Golgin subfamily A member 1 OS=Homo sapiens GN=GOLGA1 PE=1 SV=3

MFAKLKKKIAETAVAQRPGGATRI PRSVSKESVASM GADSGDDFASDGSSREDLSSQL  
LRRNEQIRKLEARLSDYAEQVRNLQKIKEKLEIALEKHQDSSMRKFQE QNETFQANRAKM  
AEG LALALARKDQEWSEKMDQLEKEKNILTAQLQEMKNQSMNLFQRRDEMDELEGFQQQE  
LSKIKHMLLKKEESLGKMEQELEARTRELSRTQEELMNSNQMSDLSQKLEELQRHYSTL  
EEQRDHVIASKTGAESKITALEQKEQELQALIQQLSIDLQKVTAETQEKEDVITHLQEKV  
ASLEKRLEQNLSGEEHLQELLKEKTLAEQNLEDTRQQLLAARSSQAKAINTLETRVRELE  
QTLQASEEQQLQSKGIVAAQETQIQELAAANQESSHVQQQALALEQQFLERTQALEAQIV  
ALERTRAADQTTAEQGMRLQE QENAAKKECRNEYERSLQNHQFELKKLKEEWSQREIVSV  
AMAQALEEVRKQREEFQQQAANLTAI IDEKEQNLREKTEVLLQKEQEILQLERGHNSALL  
QIHQLQAELEALRTLKAEEAAVVAEQEDLLRLRGPLQAEALSVNESHVTSRAMQDPVFQL  
PTAGRTPNGEVGAMDLTQLQKEKQDLEQQLEKNKTIKMQMQRMLELRKTLQKELKIRPD  
NELFEVREKPGPEMANMAPSVTNTDLTDAREINFEYLKHVVLKFMSCRESEAFHLIKAV  
SVLLNFSQEEENMLKETLEYKMSWFGSKPAPKGSIRPSISNPRIPWS

>sp|Q13439|GOGA4\_HUMAN Golgin subfamily A member 4 OS=Homo sapiens GN=GOLGA4 PE=1 SV=1

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FAQKLQLRVSPVESLFRSPIKESLFRSSSKESLVRTSSRESLNRLDLDSTASFDPPSDM  
DSEAEDLVGNSDSLKEQLIQRLRRMERSLSSYRGKYSSELVTAYQMLQREKKKLQGILSQ  
SQDKSLRRIAELREELQMDQAKKHLQEEFDASLEEKDQYISVLQTQVSLKQRLRNGPM  
NVDVLKPLPQLEPQAEVFTKEENPESDGEPVVEDGTSVKLTLETQQRVKRQENLLKRCKE  
TIQSHKEQCTLLTSEKEALQEQLDERLQELEKIKDLHMAEKTKLITQLRDAKNLIEQLEQ  
DKGMVIAETKRQMHETLEMKEEEIAQLRSRIKQMTTQGEELREQKEKSERA AFEELEKAL  
STAQKTEEARRKLKAEMDEQIKTIEKTSEEEERISLQQELSRVKQEVVDVMKKSSEEQIAK  
LQKLHEKELARKEQELTKKLQTREREFQEQMKVALEKSQSEYLIKISQEKEQQESLAEEL  
ELQKKAILTESENKLRDLQQAETYRTRILELESSLEKSLQENKNQSKDLAVHLEAEKNK  
HNKEITVMVEKHKTELES LKHQDALWTEKLQVLKQQYQTEMEKLREKCEQEKETLLKDK  
EII FQAHIEEMNEKTLEKLDVKQTELESLSSELSEVLKARHKLEELSVLKDQTDKMKQE  
LEAKMDEQKNHHQQQVDSI I KEHEVSIQRTEKALKDQINQLELLKERDKHLKEHQA HVE  
NLEADIKRSEGELQQASAKLDV FQSYQSATHEQTKAYEEQLAQLQQKLLDLETERILLTK  
QVAEVEAQKKDVCTELDAHKIQVQDLMQQLEKQNSEMEQKVSLTQVYESKLEDGNKEQE  
QTKQILVEKENMILQMREGQKKEIEILTQKLSAKEDSIHILNEEYETKFKNQEKKMEKVK  
QKAKEMQETLKKKLLDQEA LKKELENTAL ELSQKEKQFNAKM LEMAQANSAGISDAVSR  
LETNQKEQIESL TEVHRRELNDVISIWEKKLNQQAELQEIHEIQLQEKEQEVAELKQKI  
LLFGCEKEEMNKEITWLKEEGVKQDTTLNELQEQLKQSAHVNSLAQDETKLKAHLEKLE  
VDLNKSLKENTFLQEQLVELKMLAEEDKRK VSELTSKLKTTDEEFQSLKSSHEKS NKSLE  
DKSLEFKKLSEELAIQLDICCKKTEAL LEAKTNELINISSSKTNAILSRI SHCQHRTTKV  
KEALLIKTCTVSELEAQLRQLTEEQNTLNISFQQATHQLEEKENQIKSMKADIESLVTEK  
EALQKEGGNQQAASEKESCITQLKKELSENINAVTLMKEELKEKKVEISSLSKQLTDLN  
VQLQNSISLSEKEAAISSLRKQYDEEKCELLDQVQDLSFKVDTLSKEKISALEQVDDWSN

KFSEWKKKAQSRFTQHNTVKELQIQLELKSKEAYEKDEQINLLKEELDQQNKRFDCLKG  
EMEDDKSKMEKKESNLETELKSQTARIMELEDHITQKTIEIESLNEVLKNYNQQKDIEHK  
ELVQKLQHFQELGEEKDNVRKEAEEKILTLENQVYSMAELETKKKELEHVNLVSKSEE  
ELKALEDRLSESAAKLAELKRKAEQKIAAIAKKQLLSQMEEKEEQYKKGTESHLSELNTK  
LQEREREVHILEEKLKSVESQSETLIVPRSAKNVAAYTEQEEADSQGCVCQKTYEEKISV  
LQRNLTEKEKLLQRVGQKEETVSSHFEMRCQYQERLIKLEHAEAKQHEDQSMIGHLQEE  
LEEKNKYSILVAQHVEKEGGKNNIQAQKNLENVFDDVQKTLQEKELTCQILEQKIKELD  
SCLVRQKEVHRVEMEELTSKYEKLQALQQMDGRNKPTELLEENTEEKSKSHLVQPKLLSN  
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QEQEDELKHNSTLKQLMREFNTQLAQKEQELEMTIKETINKAQEVEAEELSHQEETNQ  
LLKKIAEKDDDLKRTAKRYEELDAREEEMTAKVRDLQTQLEELQKKYQKLEQEENPGN  
DNVTIMELQTQLAQKTTLISDSKLKEQEFREQIHNLEDRLKKYEKNVYATTVGTPYKGGN  
LYHTDVSFLGEPTEFEYLRKVLFEYMMGRETKTMAKVITTVLKFDDQTQKILEREDARL  
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>sp|000461|GOLI4\_HUMAN Golgi integral membrane protein 4 OS=Homo sapiens GN=GOLIM4 PE=1  
SV=1

MNGMCSRKQKRIFQTLTLLTVVFGFLYGAMLYYELQTQLRKAEAVALKYQQHQESLSAQ  
LQVVYEHRSRLEKSLQKERLEHKKAKEDFLVYKLEAQETLNKGRQDSNSRYALNVQHQM  
LKSQHEELKKQHSDEEEHRKQGEDFSRTFNDHKQKYLQLQKEKEQELSKLKETVYNLRE  
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LNRIPSLRKPDPAEQQNVTVQVAHSPQGYNTAREKPTREVQEVSRNNDVWQNHEAVPGRAE  
DTKLYAPTHKEAEFQAPPEPIQQEVERREPEEHQVEEEHRKALEEEEMEQQVGAEHLEEE  
HDPSPEEQDREWKEQHEQREAAANLEGHARAENVYPSAKPMIKFQSPYEEQLEQQRLAVQQ  
VEEAQQLREHQAELHQRLQGHLRQEQEQQQQVAREMALQRQAELEEGRPQHQEQLRQQ  
AHYDAMDNDIVQGAEDQGIQGEEGAYERDNQHQAEGDPGNRHEPREQGPREADPESEA  
DRAAVEDINPADDPNNGEDEFEEAEQVREENLPDENEEQKQSNQKQENTEVEEHLVMAG  
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>sp|Q9BQQ3|GORS1\_HUMAN Golgi reassembly-stacking protein 1 OS=Homo sapiens GN=GORASP1  
PE=1 SV=3

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ANVEKPVKLEVFNMKTMRVREVEVPSNMWGGQGLLGASVRFCFRRASEQVWHVLDVEP  
SSPAALAGLRPYTDYVVGSDQILQESDFFTLIESHEGKPLKLMVYNSKSDSCREVTVTP  
NAAWGEGSLGCGIGYGLHRIPTQPPSYHKKPPGTPPPSALPLGAPPPDALPPGPTPED  
SPSLETGSRQSDYMEALLQAPGSSMEDPLPGPGSPSHAPDPDGLPHFMETPLQPPPPVQ  
RVMDPGFLDVSGISLLDNSNASVWPSLPSTELTTTAVSTSGPEDICSSSSSHERGGEAT  
WSGSEFEVSFLDSPGAQAQADHLPLQLTLPDSLTSASPEDGLSAELLEAQAEPEEPASTEG  
LDTGTAEGLDSQAQISTTE

>sp|014653|GOSR2\_HUMAN Golgi SNAP receptor complex member 2 OS=Homo sapiens GN=GOSR2 PE=1  
SV=2

MDPLFQQTHKQVHEIQSCMGRLETADKQSVHIVENEIQASIDQIFSRLERLEILSSKEPP  
NKRQNAARLVDQLKYDVQHLQTALRNQFQHRRHAREQQRQRELLSRTFTTNDSDTTIPM  
DESLQFNSSLQKVHNGMDDLILDGHNILDGLRTQRLTLKGTQKKILDIANMLGLSNTVMR  
LIEKRAFQDKYFMIGGMLLTCVVMFLVVQYLT

>sp|Q5VW38|GP107\_HUMAN Protein GPR107 OS=Homo sapiens GN=GPR107 PE=1 SV=1

MAALAPVGSPASRGPRLAAGLRLLPMLGLLQLLAEPGLGRVHHLALKDDVRHKVHLNTFG  
FFKDGVMVNVSSLSLNEPEDKDVITIGFSLDRTKNDGFSSYLDEVDNYCILKKQSVSVTL  
LILDISRSEVRVKSPPPEAGTQLPKIIFSRDEKVLGQSQEPNVNPASAGNQTQKTQDGGKS  
KRSTVDSKAMGEKSFVHNNGGAVSFQFFFNISTDDQEGLYSLYFHKCLGKELPSDKFTF  
SLDIEITEKNPDSYLSAGEIPLPKLYISMAFFFFLSGTIWIHILRKRNDVFKIHWLMAA  
LPFTKSLSLVFAHDYHYISSQGFPFIEGWAVVYIITHLLKGALLFITIALIGTWAFIKH  
ILSDKDKKIFMIVIPLQVLANVAYIIIESTEEGTTEYGLWKDSLFLVDLLCCGAILFPVV  
WSIRHLQEASATDGKDSMGPLQQRANLRAGSRIESHFAQADLELLASSCPPASVSQRA  
GITAAINLAKLKLFRHYVVLIVCYIFYTRIIFALLKLAVPFQWKWLYQLLDETATLVFFV  
LTGYKFRPASDNPYLQLSQEEEDLEMESVVTSGVMESMKVKVKTNGSVPEQGEWEGAV

>sp|Q7Z601|GP142\_HUMAN Probable G-protein coupled receptor 142 OS=Homo sapiens GN=GPR142  
PE=2 SV=1

MSIMMLPMEQKIQWVPTSLQDITAVLGTEAYTEEDKSMVSHAQKSQHSCLSHSRWLRSPQ  
VTGGSWDLRIRPSKSSSRFQAQCLRKDPGANNHLESQGVRGTAGDADRELGRPSEKATA  
GQPRVTLLPTPHVSGLSQEFESHWPEIAERSPCVAGVIPVIYYSVLLGLGLPVSLLTAVA  
LARLATRTRRPSYYLLALTASDIIIQVVIVFAGFLLQGAVLARQVPQAVVRTANILEFA  
ANHASVWIAILLTVDRYTALCHPLHHRAASSPGRTRRAIAAVLSAALLTGIPFYWWLDMW  
RDTDSPRTLDEVLKWAHCLTVYFIPCGVFLVTNSAIIHRLRRRGRSGLQPRVGKSTAILL  
GITTLFTLLWAPRVFVMLYHMYVAPVHRDWRVHLALDVANMVAMLHTAANFGLYCFVSKT  
FRATVRQVIHDAYLPCTLASQPEGMAAKPVMPEPPGLPTGAEV

>sp|Q8TDV2|GP148\_HUMAN Probable G-protein coupled receptor 148 OS=Homo sapiens GN=GPR148  
PE=2 SV=2

MGDELAPCPVGTAWPALIQLISKTPCMPQAASNTSLGLGDLRVPSSMLYWFLPSSLLA  
AATLAVSPLLLVTILRNQRLRQEPHYLLPANILLSDLAYILLHMLISSSSLGGWELGRMA  
CGILTDAVFAACTSTILSFTAIVLHTYLAVIHPLRYLSFMHGAAWKAVALIWLVAACFP  
TFLIWLKWKQDAQLEEQGASYILPPSMGTQPGCGLLVIVTYTSLCVLFLCTALIANCFW  
RIYAEAKTSGIWGGYSRARGTLLIHSVLTLYVSTGVVFSLDMVLTRYHHIDSGHTHWL  
LAANSEVLMLPRAMLTLYLLRYRQLLGMVRGHLPSRRHQAIFTIS

>sp|Q86SP6|GP149\_HUMAN Probable G-protein coupled receptor 149 OS=Homo sapiens GN=GPR149  
PE=2 SV=2

MSLFLSNLSTNDSSLWKENHNSTDLLNPPGTLNIFYLCLTCLMTFAALVGSYSLISLLK  
MQNRTVVSMLVASWSVDDLMSVLSVTIFMFLQWPNEVPGYFQFLCTTSALMYLCQGLSSN  
LKATLLVSYNFYTMHRGVGSQTASRRSGQVLGVVLTVWAASLLLSALPLCGWGAFFVTPW  
GCLVDCSSSYVFLFSIVYALAFGLLVGLSVPLTHRLCSEEPRLHSNYQEISRGASIPG  
TPPTAGRVVSLSPEDAPGPSLRRSGGCSPTVFGPGAPAAAGAEACRRENRTLYGTR  
SFTVSVAQKRFALILALTKVVLWLPMMMHMVQNVVGFQSLPLETFSFLLTLLATTVPV  
FVLSKRWTHLPCGCIINCRQNAVAVASDGKKIKRKGFEFNLFSQKSYGIYKIAHEDYYDD  
DENSIYHNLNMSECTTKDPQRDNRNIFNAIKVEISTTPSLDSSTQRGINKCTNTDITE  
AKQDSNNKKDAFSDKTGGDINYEETTFSEGPERRLSHEESQKPDLSDEWECRSKERTPR  
QRSGYALAIPLCAFQGTVSLHAPTGKTLSTYEVSAEGQKITPASKKIEVYRSKSVGHE  
PNSEDSSTFVDTSVKIHLEVLICDNEEALDTVSIISNISQSSTQVRSPSLRYSRKENR  
FVSCDLGETASYSLFLPTSNPDGDINISIPDVEAHRQNSKRQHQRDGYQEEIQLLNKA  
YRKREEESKGS

>sp|Q8NFN8|GP156\_HUMAN Probable G-protein coupled receptor 156 OS=Homo sapiens GN=GPR156  
PE=2 SV=2

MEPEINCSELCSFPGQELDRRPLHDLCKTTITSSHSSKTISSLSPVLLGIVWTFLLSCG  
LLLILFFLAFTIHCRCNRIVKMSSPNLNIVTLLGSCLTYSSAYLFGIQDVLVGSSMETLI  
QTRLMLCIGTSLVFGPILGKSWRLYKVFTQRPDKRVI IKDLQLLGLVAALLMADVILL  
MTWVLTDP IQCLQILSVSMTVTGKDVSTSTSTHFCASRYSDVWIALIWGCKGLLLLYGA  
YLAGLTGHVSSPPVNQSLTIMVGNLLVLAAGLLFVVTRYLHWPVNLFGLTSGGIFVCT  
TTINCFIFIPQLKQWKAFEEENQTIIRMAKYFSTPNKSFHTQYGEENCHPRGEKSSMER  
LLTEKNAVIESLQEQQVNNAKEIVRLMSAECTYDLPEGAAPPASSPNKDVAVASVHTLA  
AAQGPGSHLSDFQNDPGMAARDSQCTSGPSSYAQSLEGPGKDSFSPGKEEKISDSKDFS  
DHLDSGCSQKPWTEQSLGPERGDQVPMNPSQSLLPERGGSDPQRQRHLENSEPPERRSR  
VSSVIREKLQEVLDLGLGPEASLSTAPSCHQQTWKNAAAFSPQKMPLSKELGFSPYMR  
RRRAAQRRARSHFPGSAPSSVGHRRANRTVPGAHSRLHVQNGDSPSLAPQTTSRVRPSSR  
KPSLPDPQDRPGTLEGSQKQTEPEGARGSKAAFLRQPSGSGRAPSPAAPCLSKASPDL  
PEQWQLWPPVPSGCASLSSQHSYFDTESSSSDEFFCRCHRPYCEICFQSSSDSSDSGTSD  
TDPEPTGGLASWEKLWARSKPIVNFKDDLKPTLV

>sp|Q5T848|GP158\_HUMAN Probable G-protein coupled receptor 158 OS=Homo sapiens GN=GPR158  
PE=1 SV=1

MGAMAYPLLLCLLLAQLGLGAVGASRDPQGRPDSPRERTPKGKPHAQQPGRASASDSSAP  
WSRSTDGTILAQKLAEEVPMVDASYLYTGDSHQLKRANCSGRYELAGLPKWPALASAHP  
SLHRAIDTLTHATNFLNVLQSNKSREQNLQDDLDWYQALVWSLLEGEPSISRAAITFST  
DLSAPAPQVFLQATREESRILLQDLSSAPHLANATLETEWFHGLRRKWRPHLHRRGPN  
QGPRGLGHSWRRKDLGGDKSHFKWSPPYLECENGSYKPGWLVTLSAIYGLQPNLVPEF  
RGVMKVDINLQKVIDIDQCSSDGWFSGTHKCHLNNECMPIKGLGFVLGAYECICKAGFYH  
PGVLPVNNFRRRPGDQHISGSTKDVSEEAYVCLPCREGCPFCADDSPCFVQEDKYLR LAI  
ISFQALCMLLDVFSMLVVYHFRKAKSIRASGLILLETILFGSLLLYFPVVILYFEPSTFR  
CILLRWARLLGFATVYGTVTCLKHRVLKVFLSRTAQRIPYMTGGRVMRMLAVILLVVFWF  
LIGWTSSVCNLEKQISLIGQKTSDDLIFNMCLIDRWDMTAVAEFLFWGVLYCYAV  
RTVPSAFHEPRYMAVAVHNELIIISAI FHTIRFVLASRLQSDWMLMLYFAHTHLTVTVTIG  
LLLIPKFSHSSNNPRDDIATEAYEDELDMGRSGSYLNSSINSAWSEHSLDPEDIRDELKK  
LYAQLEIYKRKKMITNPNHLQKKRCSKKGLGRSIMRRITEIPETVSRQSKEDKEGADHG  
TAKGTALIRKNPPESSGNTGKSKEETLKNRVFSLKSHSTYDHVRDQTESSSLPTESQE  
EETENSTLESLSGKLTQKLKEDSEASTESVPLVCKSASAHNLSSEKKTGHPRTSMLQ  
KSLSVIASAKEKTLGLAGKTQTAGVEERTKSQKPLPKDKETNRNHSNSDNTETKDPAPQN  
SNPAEEPRKPQKSGIMKQQRVNPTTANSDLNPGTTQMKDNFDIGEVCPEVYDLTPGPVP  
SESKVQKHVSIVASEMEKNPTFSLKEKSHHKPKAAEVCQQSNQKRIDKAEVCLWESQGQS  
ILEDEKLLISKTPVLPERAKEENGQPRAANVCAGQSEELPPKAVASKTENENLNQIGHQ  
EKKTSSEENVRGSYNSNNFQQPLTSRAEVCPEFETPAQPNAGRSVALPASSALSANK  
IAGPRKEEIIWDSFKV

>sp|Q9UJ42|GP160\_HUMAN Probable G-protein coupled receptor 160 OS=Homo sapiens GN=GPR160  
PE=2 SV=1

MTALSSENC SFQYQLRQTNQPLDVNYLLFLIILGKILLNITLGMRRKNTCQNFMEYFCI  
SLAFVDLLLLVNISII LYFRDFVLLSIRFTKYHICLFTQIIISFTYGFLLHYPVFLTACIDY  
CLNFSKTTKLSFKCQKLFYFFTVILIWISVLAYVLGDP AIYQSLKAQNAYSRHCPFYVSI

QSYWLSFFMVMILFVAFITCWEVTTLVQAIRITSYMNETILYFPFSSHSSYTVRSKKIF  
LSKLIVCFLSTWLPFVLLQVIIIVLLKVQIPAYIEMNIPWLYFVNSFLIATVYWFNCHKLN  
LKDIGLPLDPFVNWKCCFIPLTIPNLEQIEKPISIMIC

>sp|Q16538|GP162\_HUMAN Probable G-protein coupled receptor 162 OS=Homo sapiens GN=GPR162  
PE=2 SV=1

MARGGAGAEASLRNALSWLACGLLALLANAWIILSISAKQQKHKPLELLLCFLAGTHI  
LMAAVPLTTFAVQLRRQASSDYDWNESICKVFVSTYYTLALATCFTVASLSYHRMWMVR  
WPVNYRLSNAKKQALHAVMGIWMVSFILSTLPSIGWHNNGERYYARGCQFIVSKIGLFG  
VCFSLLLLGGIVMGLVCVAITFYQTLWARPRRARQARRVGGGGGTAKAGPGALGTRPAFE  
VPAIVVEDARGKRRSSLDGSESAKTSLQVTNLVSAIVFLYDSL TGVPILVVSFFSLKSDS  
APPWMVLAVLWCMAQTL LLSFSFIWSCERYADVRTVWEQCVAIMSEEDGDDGGCDDYA  
EGRVCKVRFDANGATGPGSRDPAQVKLLPGRHMLFPPLERVHYLQVPLSRRLSHDETNI  
STPREPGSFLHKWSSDDIRVLP AQSRALGGPEYLGQRHLEDEDEDEEAEGGLASLR  
QFLESGVLGSGGGPPRGPFFREETTFIDETPLSPPTASPGHSPRRPRPLGLSPRRLSL  
GSPEsRAVGLPLGLSAGRRCSLTGGEESARAWGGSWGPNGPIFPQLTL

>sp|Q6ZNW5|GDPP1\_HUMAN GDP-D-glucose phosphorylase 1 OS=Homo sapiens GN=GDPP1 PE=1 SV=2

MALPHDSNETSYLLPPNEDWGRQTIPDFVYGQKDLMAEQIWPRNAPGIPDALPQSPFD  
AALCSAWKQRVELGLFRYRLRELQTQILPGAVGFVAQLNVERGVQRRPPQTIKSVRQAFD  
PVQFNFNKIRPGEVLFRLHREPDLPGTLLQEDILVVINVSPLWGHVLLVPEPARQLPQR  
LLPGALRAGIEAVLLSLHPGFRVGFNSLGGGLASVNLHLHLGYLAHRLPVEQAPSEPLDP  
GGHLHLQDL PAPGFLFYTRGPGPDLESLSRVCRATDYLT DHEIAHNL FVTRGAPPGKT  
SPSSALTGVRVILWARKSSFGIKDGEAFNVALCEL AGHLPVKTSQDFSSLTEAAVALIQ  
DCRLPPSQAEDVQAALVALMSQEEQ

>sp|075496|GEMI\_HUMAN Geminin OS=Homo sapiens GN=GMNN PE=1 SV=1

MNPSMKQKQEEIKENIKNSSVPRRTLKMIQPSASGSLVGRENELSAGLSKRKHRNDHLTS  
TTSSPGVIVPESENKNLGGVTQESFDLMIKENPSSQYWKEAEKRRKALYEALKENEKL  
HKEIEQKDNEIARLKKENKELAEVAEHVQYMAELIERLNGEPLDNFESLDNQEFDSEET  
VEDSLVEDSEIGTCAEGTVSSSTDAKPCI

>sp|Q7L5D6|GET4\_HUMAN Golgi to ER traffic protein 4 homolog OS=Homo sapiens GN=GET4 PE=1  
SV=1

MAAAAAMAEQESARNGGRNRGGVQRVEGKL RASVEKGDYYEAHQMYRTLFFRYMSQSKHT  
EARELMYSGALLFFSHGQQNSAADLSMLVLESLEKAEVEVADELLENLAKVFSLMDPNP  
ERVTFVSRALKWSSGGSGKLGHPRLHQLLALTLWKEQNYCESRYHFLHSADGEGCANMLV  
EYSTSRGFRSEVDMFVAQAVLQFLCLKNKSSASVVFTTYTQKHPSIEDGPPFVEPLL NFI  
WFLLLAVDGGKLT VFTVLCEQYQPSLRRDPMYNEYLDRI GQLFFGVPPKQTSSYGGLLGN  
LLTSLMGSSSEQEDGEESPSDGSPIELD

>sp|Q5VTD9|GFI1B\_HUMAN Zinc finger protein Gfi-1b OS=Homo sapiens GN=GFI1B PE=1 SV=1

MPRSFLVKSKAHTYHQPRVQEDEPLWPPALTPVPRDQAPSNPVLSTLFPNQCLDWTNL  
KREPELEQDQNLARMAPAPEGPIVLSRPQDGSPLSDSPPFYKPSFSWDTLATTYGHSYR  
QAPSTMQSAFLEHSVSLYGSPLVPSTEPALDFSLRSPGMDAYHCVKCNKVSTPHGLEV  
HVRSHSGTRPFACDICGKTFGHAVSLEQHTHVHSQERSFECRMCGAKFRSSTLSTHLL  
IHSDTRPYPCQFCGRFHQKSDMKKHTYIHTGEKPHKCQVCGKAFSQSSNLITHSRKHTG  
FKPFSCELC TKGFQRKVDLRRHRESQHNLK

>sp|POCL81|GG12G\_HUMAN G antigen 12G OS=Homo sapiens GN=GAGE12G PE=1 SV=1



MSWRGRSTYYWPRPRRYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAEQEGE  
DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC

>sp|A6NER3|GG12J\_HUMAN G antigen 12J OS=Homo sapiens GN=GAGE12J PE=3 SV=1

MSWRGRSTYYWPRPRPYVQPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAEQEGE  
DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGKKQSQC

>sp|A6NEF3|GG6L4\_HUMAN Golgin subfamily A member 6-like protein 4 OS=Homo sapiens  
GN=GOLGA6L4 PE=3 SV=3

MWPQPRFPPHPAMSEKTQQGKLAAAKKKLKAYWQRKSPGIPAGANRKKKINGSSPDTATS  
GGYHSPGDSATGIYGEGRASSTTLEDLESQYQELAVALDSSSAIISQLTENINSLVRTSK  
EEKKHEIHLVQKLGRSLFKLNQTAEPLAPEPPAGPSKVEQLQDET NHLRKELESVGRQL  
QAEVENNQMLSLNRRQEERLREQEERLREQEERLREQEDRLHEQEERLREQEERLCEQE  
ERLREHEERLCEQEERLCEQEERLREQEERLHEQEERLREQEERLCEQEERLREQEERLC  
EQEERLREQEERLCEQEKLPGQERLLEEVEKLLEQERRQEEQERLLERERLLEEVEKLLE  
QERQEEQERLLERERLLEEVEKLLEQERRQEEQERLLERERLLDEVEELLDEVEELLEQ  
ERLRQQDERLWQETLQELERLRELERLRELERMLELGWEALYEQRAEPRSGFEELNNEN  
KSTLQLEQQVKELKKSGGAEEPRGSESAAAAARPVAGAPVPQGAWMCGQAGWTPQEHPLS  
GEAVGTGEAAGGAGEAACHSFRAAENRELNITII

>sp|A6NI86|GG6LA\_HUMAN Golgin subfamily A member 6-like protein 10 OS=Homo sapiens  
GN=GOLGA6L10 PE=3 SV=4

MWPQPRLPPHPAMSEKTQQGKLAAAKKKLKAYWQRKSPGIPAGANRKKKVNGSSPDTATS  
GGYHSPGDSATGIYGEGRASSTTLQDLESQYQELAVALDSSSAIISQLTENINSLVRTSK  
EEKKHEIHLVQKLGRSLFKLNQTAEPLAPEPPAGPSKVEQLQDET NHLRKELESVGRQL  
QAEVENNQMLSLNRRQEERLREQEERLHEQEERLHEQEERLCEQEERLREQEERLCEQE  
ERLREQEERLCEQEERLREQEERLCEQEERLREQEERLREQEERLCEQEERLCEQEERLR  
EQEERLCEQEERLCEQEERLCEQEKLPGQERLLEEVEKLLEQERRQEEQERLLERERLLD  
EVEELLEQERLRQQDERLWQETLRELERLRELERLRELERMLELGWEALYEQRAEPRSG  
FEELNNENKSTLQLEQQVKELEKSGGAEEPRGSESAAAAARPVPVAGAPVPQGAWMCGQAGWT  
PQEHPLSGEAVGTGEAAGGAEEAACHSFRAAENRELNITII

>sp|Q9HBQ8|GGA2B\_HUMAN Putative golgin subfamily A member 2B OS=Homo sapiens GN=GOLGA2P5  
PE=5 SV=1

MDSEEEEEVPQPMPSIPEDLESQKAMVAFFNSAVASAEQQARLCGQLKECTASAWLICW  
PRPRRNLRRQQPQELGVIPCVGRPTRPCRGPPWRSCGRVHRTVPEPEGSAEGGVHQQAG  
PGQGRGEGEAAGAGVACGRLQQVA

>sp|Q9NZ52|GGA3\_HUMAN ADP-ribosylation factor-binding protein GGA3 OS=Homo sapiens  
GN=GGA3 PE=1 SV=1

MAEAGESLESWLNKATNPSNRQEDWEYIIIGFCDQINKELEGPQIAVRLLAHKIQSPQEW  
EALQALTIVLEACMKNCGRFRHNEVGKFRFLNELIKVSPKYLGDRVSEKVKTKVIELLYS  
WTMALPEEAKIKDAYHMLKRQGIVQSDPPIPVDRTLIPSPPPRPKNPVFDDEEKSKLLAK  
LLKSKNPDDLQEANLIKSMVKEDEARIQKVTKRLHTLEEVNNVRLSEMLLHYSQEDS  
SDGDRELMKELFDQCENKRRTLFKLASETEDNDNSLGDILQASDNLSRVINSYKTIIEGQ  
VINGEVATLTLDPSEGNQCSNQGTLDLAELDTTNSLSSVLAPAPTPPSSGIPILPPPP  
QASGPPRSRSSQAATLGPSSTSNALSWLDEELLCLGLADPAPNVPPKESAGNSQWHLL  
QREQSDLDFFSRPGTAACGASDAPLLQPSAPSSSSSQAPLPPFPAPVVPASVPAPSAG  
SSLFSTGVAPALAPKVEPAVPGHHGLALGNSALHHLDALDQLLEEAKVTSGLVKPTTSPL

IPTTTTPARLLPFSTGPGSPLFQPLSFQSQGSPPKGPESLASIHVPLESIKPSSALPVT  
AYDKNGFRILFHFAKECPPGRPDVLVVVVSMLNTAPLPVKSIVLQAAVPKSMKVKLQPPS  
GTELSFPSPIQPPAAITQVMLLANPLKEKVRLRYKLTFALGEQLSTEVGEVDQFPPVEQW  
GNL

>sp|Q8N2G8|GHDC\_HUMAN GH3 domain-containing protein OS=Homo sapiens GN=GHDC PE=1 SV=2

MLLWPLLLLLLLLLPTLALLRQQRSQDARLSWLAGLQHRVAWGALVWAATWQRRRLEQSTL  
HVHQSQQQALRWCLQGAQRPHCSLRRSTDISTFRNHLPLTKASQTQQEDSGEQPLPPTSN  
QDLGEASLQATLLGLAALNKAYPEVLAQGR TARVTLTSPWPRPLPWP GNTLGQVGTPGTK  
DPRALLLDALRSPGLRALEAGTAVELLDVFLGLETDGEELAGAI AAGNPGAPLRERAAEL  
REALEQGPRGLALRLWPKLQVVVTL DAGGQAEAVAALGALWCQGLAFFSPAYAASGGVLG  
LNLQPEQPHGLYLLPPGAPFIELLPVKEGTQEEAASTLLLA EAQQGKEYELVLTDRASLT  
RCRLGDVVRVVGAYNQCPVVRFCRLDQTLSVRGEDIGEDLFSEALGRAVGQWAGAKLLD  
HGCVESSILDSSAGSAPHYEVFVALRGLRNLSEENRDKLDHCLQEASPRYKSLRFGWSVG  
PARVHLVGQGAFRALRAALAACPSSFPFPAMPRLRHRHLAQCLQERVVS

>sp|Q02643|GHRHR\_HUMAN Growth hormone-releasing hormone receptor OS=Homo sapiens GN=GHRHR  
PE=1 SV=2

MDRRMWGAHVFCVLSPLPTVLGHMHP ECDFITQLREDESACLQAAEEMPNTTLGCPATWD  
GLLCWPTAGSGEWTLP CPDFFSHFSSESGAVKR DCTITGWSEFPFPYPVACPVPLELLA  
EEESYFSTVKIIYTVGHSISIVALFVAITILVALRRLHCP RNYVHTQLFTTFILKAGAVF  
LKDAALFHSDTDHCSFSTVLCKVSVAASHFATMTNFSWLLAEAVYLNCLLASTSPSSRR  
AFWWVLVLAGWGLPVLFTGTWVSCKLAFEDIACWLD DTSPLYWIIKGP IVLSVGVNFGLF  
LNIIRILVRKLEPAQGS LHTQSQYWRLSKSTLFLIPLFGIHYIIFNFLPDNAGLGIRLPL  
ELGLGSFQGFIVAILYCFLNQEV RTEISRKWHGHDPELLPAWRTRAKWTTPSRSAAKVLT  
SMC

>sp|Q9H1C3|GL8D2\_HUMAN Glycosyltransferase 8 domain-containing protein 2 OS=Homo sapiens  
GN=GLT8D2 PE=2 SV=1

MALLRKINQVLLFLLIVTLCVILYKKVHKGTVPKN DADDESETPEELEEEIPVVICAAAG  
RMGATMAAINS IYSENTANILFYVVG LRNTLTRIRK WIEHSLREINFKIVEFNPMVLKG  
KIRPDSSRPELLQPLNFVRFYLP LLIHQHEKVIYLD DDDVIVQGD IQELYDTTLALGHAAA  
FSDDCDLPSAQDINRLVGLQNTYMGYLDYR KKAIKDLGISPSTCSFNPGVIVANMTEWKH  
QRITKQLEKWMQKNVEENLYSSSLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDAR  
YSEHFLQEAKLLHWNGRHKPWDFPSVHNDLWESWFVPD PAGIFKLNHHS

>sp|Q86VQ1|GLCI1\_HUMAN Glucocorticoid-induced transcript 1 protein OS=Homo sapiens  
GN=GLCCI1 PE=1 SV=1

MSTASSSSSSSSQTPHPPSQRMRRSAAGSPPAVAAAGSGNGAGGGGVGCAPAAGAGRL  
LQPIRATVPYQLLRGSQHSPTRPPVAAAAASLGSLPGPGAARGPSPSSPTPPAAAAPAEQ  
APRAKGRPRRSPESHRRSSSPERRSPGSPVCRADKAKSQQV RTSSTIRRTSSLDITITGPY  
LTGQWPRDPHVHYPSCKMDKATQTPSCWAEEGA EKRSQRSASWGSADQLKEQIAKLRQQ  
LQRSKQSSRHSKEKDRQSPLHG NHITISHTQATGSR SVPMLSNISVPKSSVSRVPCNVE  
GISPELEKVF IKENNGKEEVSKPLDIPDGRRAPLPAHYRSSSTRSIDTQTPSVQERSSSC  
SSHSPCVSPFCPPESQDGSPCSTEDLLYDRDKDSGSSSPLPKYASSPKPNNSYMFKREPP  
EGCERVKVFEEMASRQPI SAPLFS CPDKNVNFIPTGSAFCPVKLLGPLLPASDMLKNS  
PNSGQSSALATLTVEQLSSRV SFTSLSDDTSTAGSMEASVQQPSQQQQLLQELQGEDHIS  
AQNYVII

>sp|P04062|GLCM\_HUMAN Glucosylceramidase OS=Homo sapiens GN=GBA PE=1 SV=3

MEFSSPSREECPKPLSRVSIAGSLTGLLLLQAVSWASGARPCIPKSFYSSVVCVNAT  
YCDFDPPTFPALGTFSRYESTRSGRMELSMGPIQANHTGTGTTTTLQPEQKFQKVKGF  
GGAMTDAAALNILALSPPAQNLLLSYFSEEGIGYNIIRVPMASCDFSIRTYTYADTPDD  
FQLHNFSLPEEDTKLKIPLIHRALQLAQRPVSLASPWTSPTWLKTNGAVNGKGSLSKGQP  
GDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEPSAGLLSGYPFQCLGFTPEHQRFIA  
RDLGPTLANSTHHNVRLLMLDDQRLLPHWAKVVLTDPEAAKYVHGIAVHWYDLFLAPAK  
ATLGETHRLFPNTMLFASEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDW  
NLALNPEGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPEGSQRVGLVASQK  
NDLDAVALMHPDGSVVVVVLRSSKDVPLTIKDPAVGFLETISPGYSIHTYLWRRQ

>sp|Q53GS7|GLE1\_HUMAN Nucleoporin GLE1 OS=Homo sapiens GN=GLE1 PE=1 SV=2

MPSEGRCWETLALRSSDKGRLCYRDWLLRREDVLEECMSLPKLSSYSGWVVEHVLPHM  
QENQPLSETSPSSTSASALDQPSFVPSKPDASSAFSPASPATPNGTKGKDESHTESMVL  
QSSRGIKVEGCVRMYELVHRMKGTEGLRLWQEEQERKVQALSEMASEQLKRFDEWKELKQ  
HKEFQDLREVMEKSSREALGHQEKLKAHRHRAKILNLKREAEQQRVKQAEQERLRKEE  
GQIRLRALYALQEEMQLSQQLDASEQHKALLKVDLAAFQTRGNQLCSLISGIRASSES  
SYPTAESQAEALREMRLMNLGQEITRACEDKRRQDEEEAQVKLQEAQMQQGPEAH  
KEPPAPSQGGPGKQNEQLQVKVQDITMQWYQQLQDASMQCVLTFEGLTNSKDSQAKKIKM  
DLQKAATIPVSQISTIASGSKLEIFDKIHSLLSGKPVQSGGRSVSVTLNPQGLDFVQYKL  
AEKFKVQGEVEEVASHHEAAFPVAVASGIWELHPRVGDILAHLLHKKCPYSVPFYPTFKE  
GMALEDYQRMLGYQVKDSKVEQQDNFLKRMGMIRLYAAIIQLRWPYGNRQEIHPHGLNH  
GWRWLAQILNMEPLSDVTATLLFDFLEVCGNALMKYQVQVFWKMLILIKEDYFPRIEAIT  
SSGQMGSFIRLKQFLEKCLQHKDIPVPGFLTSSFWRS

>sp|P01215|GLHA\_HUMAN Glycoprotein hormones alpha chain OS=Homo sapiens GN=CGA PE=1 SV=1

MDYYRKYAAIFVLTVLSVFLHVLHSAPDVQDCPECTLQENPFSQPGAPILQCMGCCFSRA  
YPTPLRSKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKS

>sp|P06028|GLPB\_HUMAN Glycophorin-B OS=Homo sapiens GN=GYPB PE=1 SV=3

MYGKIIIFVLLSEIVSISALSTTEVAMHTSTSSSVTKSYISSQTNGETGQLVHRFTVPAP  
VVIIILCVMAGIIGTILLISYSIRRLIKA

>sp|P15421|GLPE\_HUMAN Glycophorin-E OS=Homo sapiens GN=GYPE PE=2 SV=2

MYGKIIIFVLLSGIVSISASSTTGAMHTSTSSSVTKSYISSQTNGITLINWWAMARVIF  
EVMLVVVGMIILISYCIR

>sp|Q5JXX5|GLRA4\_HUMAN Glycine receptor subunit alpha-4 OS=Homo sapiens GN=GLRA4 PE=2  
SV=3

MTTLVPATLSFLLLWTLPGQVLLRVALAKEEVKSGTKGSQPMSPSDFLDKLMGRTSGYDA  
RIRPNFKGPPVNTCNIFINSFSSITKTTMDYRVNVFLRQQWNPRLSYREYPDDSLDL  
PSMLDSIWKPDFFANEKGANFHEVTTDNKLLRIFKNGNVLYSIRLTLILSCLMDLKNFP  
MDIQTCTMQLESFGYTMKDLVFEWLEDAPAVQVAEGLTLPQFILRDEKDLGCCTKHNTG  
KFTCIEVKFHLERQMGYYLIQMYIPSLIVILSWVSFWINMDAAPARVGLGITTTLTMTT  
QSSGSRASLPKVSYYKAIDIWMAVCLLFVFAALLEYAAINFVSRQHKEFIRLRRRQRRQR  
LEEDIIQESRFYFRGYGLGHCLQARDGGPMEGSGIYSPQPPAPLLREGETTRKLYVD

>sp|P47871|GLR\_HUMAN Glucagon receptor OS=Homo sapiens GN=GCGR PE=1 SV=1

MPPCQPQRPLLLLLLLACQPQVPSAQVMDFLFEKWKLYGQCHHNSLLPPPTELVCNR  
TFDKYSCWPDTPANTTANISCPWYLPWHHKVQHRFVFKRCGPDGQWVRGPRGQPWRDASQ

CQMDGEEIEVQKEVAKMYSSSQVMYTVGYSLGALLLALAILGGLSKLHCTRNAIHANL  
FASFVLKASSVLVIDGLLRTRYQKIGDDLSVSTWLSGAVAGCRVAAVFMQYGIVANYC  
WLLVEGLYLHNLGLATLPERSFFSLYLIGIWGAPMLFVVPWAVVKCLFENVQCWTSNDN  
MGFWWILRFPVFLAILINFFIFVRIVQLLVAKLRARQMHTDYKFRLLAKSTLTLLIPLLGV  
HEVVFAFVTDEHAQGTLSAKLFFDLFLSSFQGLLVAVLYCFLNKEVQSELRRRWHRWRL  
GKVLWEERNTSNHRASSSPGHGPPSKELQFGRGGGSQDSSAETPLAGGLPRLAESPF

>sp|Q8NCW6|GLT11\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 11 OS=Homo sapiens  
GN=GALNT11 PE=1 SV=2

MGSVTVRYFCYGCLFSTSATWTVLLFVYFNFSEVTQPLKNVPVKSGSPHGPSKPKFYPRFT  
RGPSRVLEPQFKANKIDVDIDSRVEDPEEGHLKFSSELGMIFNERDQELRDLGYQKHAFN  
MLISDRLLGYHRDVPDTRNAACEKFYPPDLPAASVVICFYNEAFSALLRTVHVIDRTPA  
HLLHEIILVDDSDFDLKGELDEYVQKYLPGKIKVIRNTKREGLIRGRMIGAAHATGEV  
LVFLDSHCEVNMWLQPLLAAIREDRHTVVCVIDIISADTLAYSSSPVVRGGFNWGLHF  
KWDLVPLSELGRAEGATAPIKSPTMAGGLFAMNRQYFHELGGYDSGMDIWGGENLEISFR  
IWMCGKLFII PCSRVGHIFRKRPPYGSPEGQDTMTHNSRLAHVWLDEYKEQYFSLRPD  
LKTksygnISERVElRKKLGCKSFKWYLDNVPEMQISGSHAKPQQPIFVNRGPKRPKVL  
QRGRLYHLQTNKCLVAQGRPSQKGGVLVLKACDYSDPNQIWIYNEEHVNLNSLLCLDMS  
ETRSDPPRLMKCHSGSGSQWTFGKNNRLYQVSVGQCLRAVDPLGQKGSVAMAI CDGSS  
SQQWHLEG

>sp|Q8IXK2|GLT12\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 12 OS=Homo sapiens  
GN=GALNT12 PE=1 SV=3

MWGRTARRRCPRELRRGREALLVLLALLALAGLGSVLRAQRGAGAGAAEPGPPRTPRPGR  
REPVMRPPVPANALGARGEAVRLQLQGEELRLQEEVRLHQINIYLSDRISLHRRLPER  
WNPLCKEKKYDYNLPRTSVIIAFYNEAWSTLLRTVYSVLETSPDILLEEVILVDDYSDR  
EHLKERLANELSGLPKVRLIRANKREGLVRARLLGASAARGDVLTFLDCHCEHEGWLEP  
LLQRIHEEESAVVCPVIDVIDWNTFEYLGNSGEPQIGGFDRVLFTWHTVPERERIRMQS  
PVDVIRSPTMAGGLFAVSKKYFEYLGSYDTGMEVWGGENLEFSFRIWQCGGVLETHPCSH  
VGHVFPKQAPYSRNKALANSVRAAEVWMDEFKELYHRNPRARLEPFGDVTERKQLRDKL  
QCKDFKWFLETVPYELHVPEDRPGFFGMLQNKGLTDYCFDYNPPDENQIVGHQVILYLCH  
GMGQNQFFEYTSQKEIRYNTHQPEGCIAVEAGMDTLIMHLCEETAPENQKFILQEDGSLF  
HEQSKKCVQAARKESDSFVPLLRDCTNSDHQKWFFKERML

>sp|Q6IS24|GLTL3\_HUMAN Putative polypeptide N-acetylgalactosaminyltransferase-like  
protein 3 OS=Homo sapiens GN=WBSCR17 PE=2 SV=2

MASLRRVKVLLVLNLIAGVFLFLAKCRPIAVRSGDAFHEIRPRAEVANLSAHSASPIQ  
DAVLKRLSLLEDIVYRQLNGLSKSLGLIEGYGGRGKGLPATLSPAEEEEKAKGPHEKYGY  
NSYLSEKISLDRIPDYRPTKCKELKYSKDLQISIIIFVNEALSVILRSVHSVHNHTP  
THLLKEIILVDDNSDEEELKVPLEEYVHKRYPLVKVVRNQKREGLIRARIEGWKVATGQ  
VTGFFDAHVEFTAGWAEPVLSRIQENRKRVILPSIDNIKQDNFEVQRYENSAHGYSWELW  
CMYISPPKDWWDAGDPSLP IRTPAMIGCSFVVNRKFFGEIGLLDPGMDVYGGENIELGIK  
VWLCGGSMEVLPCSRVAHIERKKKPYNSNIGFYTKRNALRAEVWDDYKSHVYIAWNLP  
LENPGIDIGDVSERRALRKSLKCKNFQWYLDHVYPEMRRYNTVAYGELRNNAKDVCLD  
QGPLENHTAILYPCHGWGPQLARYTKEGFLHLGALGTTTLLPDTRCLVDNSKSRPQLLD  
CDKVSSLYKRWNFIQNGAIMNKGTRGCLEVENRGLAGIDLILRSCTGQRWTIKNSIK

>sp|P34896|GLYC\_HUMAN Serine hydroxymethyltransferase, cytosolic OS=Homo sapiens GN=SHMT1  
PE=1 SV=1

MTMPVNGAHKDADLWSSHDKMLAQPLKSDVEVYNI IKKESNRQRVGLELIA SENFASRA  
VLEALGSCLNNKYSEGYPGQRYYGTEFIDELETLCQKRALQAYKLDPCWGVNVQPYSG  
SPANFAVYTALVEPHGRIMGLDLPDGGHLTHGFMTDKKKISATSIFFESMPYKVNPDGY  
INYDQLEENARLFHPKLI IAGTSCYSRNLEYARLRKIADENGAYLMADMAHISGLVAAGV  
VPSPFEHCHVTTTTHTKTLRGCRAGMIFYRKGVKSVDPKTGKEILYNLESLINSAVFPGL  
QGGPHNHA IAGVAVALKQAMTLEFKVYQHVVANCRALSEALTELGKIVTGGSDNHLIL  
VDLRSGKTDGGRAEKVLEACSIACNKNTCPGDRSALRPSGLRLGTPALTSRGLLEKDFQK  
VAHF IHRGIELTLQIQSDTGVRATLKEFKERLAGDKYQAAVQALREEVESFASLFPLPGL  
PDF

>sp|P10912|GHR\_HUMAN Growth hormone receptor OS=Homo sapiens GN=GHR PE=1 SV=1

MDLWQLLLTLALAGSSDAFSGSEATAA ILSRAPWSLQSVNPGLKTNSSKEPKFTKCRSPE  
RETFSCHWTDEVHHGTKNLGPIQLFYTRNTQEWTEWKECPDYVSAGENS CYFNSSFTS  
IWIPYCIKLT SNGGTVD EKCFSVDEIVQDPPIALNWTLLNVSLTGIHADIQVRWEAPRN  
ADIQKGWMVLEYELQYKEVNETKWMMDPILTTSVPVYSLKVDKEYEVRVRSKQRNSGNY  
GEFSEVLYVTLPQMSQFTCEEDFYFPWLLIIIFGIFGLTVMLFVFLFSKQQRKMLILPP  
VPVPKIKGIDPDLLKEGKLEEVNTILAIHDSYKPEFHSDDSWVEFIELDIDEPDEKTEES  
DTRLLSSDHEKSHSNLGVKDGSGRTSCCEPDILETDFNANDIHEGTSEVAQPQRLKGE  
ADLLCLDQKNQNSPYHDACPATQQPSV IQAEKNKPQPLTEGAESTHQA AHIQLSNPSS  
LSNIDFYAQVSDITPAGSVVLSPGQKNKAGMSQCDMHPMVSLCQENFLMDNAYFCEADA  
KKCIPVAPHIKVESH IQPSLNQEDIYITTESLTTAAGRPGTGEHVPGSEMPVPDYTSIHI  
VQSPQGLILNATALPLPDKEFLSSCGYVSTDQLNKIMP

>sp|Q9NWU2|GID8\_HUMAN Glucose-induced degradation protein 8 homolog OS=Homo sapiens  
GN=GID8 PE=1 SV=1

MSYAEKPDEITKDEWMEKLNHLHVQRADMNRLIMNYLVTEGFKEAAEKFRMESGIEPSVD  
LETLDERIKIREMILKGQIQEAIALINSLHPELLDTNRYLYFHLQQQH LIELIRQRETEA  
ALEFAQTQLAEQGEESRECLTEMERTLALLAFDSPEESPFGDLLHTMQRQKVWSEVNQAV  
LDYENRESTPKLAKLLKLLWAQNELDQKKVKYPKMTDLSKGVIEEPK

>sp|Q8TF64|GIPC3\_HUMAN PDZ domain-containing protein GIPC3 OS=Homo sapiens GN=GIPC3 PE=1  
SV=1

MEGAAAREARGTETPRASAPPPAPSEPPAAPRARPRLVFRTQLAHGSPTGKIEGFTNVRE  
LYAKIAEAFGIAPTEILFCTLNSHKVDMQKLLGGQIGLEDFIFAHVRGETKEVEVTKTED  
ALGLTITDNGAGYAFIKRIKEGSIINRIEAVCVGDSIEAINDHSIVGCRHYEVAKMLREL  
PKSQPFTLRLVQPKRAFDMIGQRSRSSKCPVEAKVTSGRETLRLRSGGAATVEEAPSEFE  
EEASRKVDDLLESYMGIRDPELASTMVETSKKTASAEFARCLDSVLGEFAFPDEFVVEV  
WAAIGEAREACG

>sp|Q5VSY0|GKAP1\_HUMAN G kinase-anchoring protein 1 OS=Homo sapiens GN=GKAP1 PE=1 SV=2

MASAVLSSVPTTASRFALLQVDSGSGSDSEPGKGKGRNTGKSQTLGSKSTTNEKKREKRR  
KKKEQQQSEANELRNLAFFKIPQKSSHAVCNAQHDLPLSNPVQKDSREENWQEWQRDEQ  
LTSEMFADLEKALLSKLEYEEHKKKEYEDAENTSTQSKVMNKKDKRKNHQGKDRPLTVS  
LKDFHSEDHISKKTEELSSSQTLSDGGFFNRLEDDVHKILIREKRREQLTEYNGTDNCT  
AHEHNQEVVLKDGRIERLKL ELERKDAEIQKLNK VITQWEAKYKEVKARNAQLLKMLQEG  
EMKDKA EILLQVDESQSIKNELTIQVTS LHAALEQERSKV KVLQAELAKYQGGRKGRNS

ESDQCR

>sp|Q7Z4J2|GL6D1\_HUMAN Glycosyltransferase 6 domain-containing protein 1 OS=Homo sapiens  
GN=GLT6D1 PE=2 SV=1

MNSKRMLLLVLFASFSLMVERYFRNHQVEELRLSDWFHPRKRPDVITKTDWLAPVLWEGT  
FDRRVLEKHYRRRNITVGLAVFATGRFAEEYLRPFLHSANKHFMTGYRVIFYIMVDAFFK  
LPDIEPSPLRTFKAFKVGTERWWLDGPLVHVKSLGEHIASHIQDEVDFLFSMAANQVFQN  
EFGVETLGPLVAQLHAWWYFRNTKNFPYERRPTSAACIPFGQGDFYYGNLMVGGTPHNIL  
DFIKEYLNGVIHDIKGNLSTYEKHLNKYFYLNKPTKLLSPAYSWDLAFSPPPQIQYVKV  
AHDSQRKL

>sp|Q8IVK1|GLCM1\_HUMAN Putative glycosylation-dependent cell adhesion molecule 1 OS=Homo  
sapiens GN=GLYCAM1 PE=5 SV=1

MKFFMVLLPASLASTSLAILDVESGLLPQLSVLLSNRLRGKTCQTGP

>sp|P08151|GLI1\_HUMAN Zinc finger protein GLI1 OS=Homo sapiens GN=GLI1 PE=1 SV=1

MFNSMTPPPISSYGEPCCLRPLPSQGAPSVGTEGLSGPPFCHQANLMSPGPHSYGPARETN  
SCTEGLPFSSPRSAVKLTKKRALSISPLSDASLDLQTVIRTSPSSLVAFINSRCTSPGGS  
YGHLSIGTMSPSLGFPAQMNHQKGPSPSFGVQPCGPHDSARGGMIPHPQSRGPFPTCQLK  
SELDMLVGKCREEPLEGDMSSPNSTGIQDPLLGMLDGREDLEREEKREPESVYETDCRWD  
GCSQEFDSQEQLVHHINSEHIHGERKEFVCHWGGCSRELRPFKAQYMLVVHMRRHTGEKP  
HKCTFEGCRKSYSRLENLKTHLRSHTGEKPYMCEHEGCSKAFSNASDRAKHQNRTHSNEK  
PYVCKLPGCTKRYTDPSSLRKHVKTVHGPDAHVTKRHRGDGPLPRAPSISTVEPKREREG  
GPIREESRLTVPEGAMKPQPSGAQSSSDHSPAGSAANTDSGVEMTGNAGGSTEDLSS  
LDEGPCIAGTGLSTLRRLENLRDLQLHLRPIGTRGLKLPSLSHTGTTVSRRVGPPVSLE  
RRSSSSSSISSAYTVSRRSSLASFPFPGSPENGASSLPGLMPAQHYLLRARYASARGGG  
TSPTAASSLDRIGGLPMPWPWSRAEYPGYNPNAGVTRRASDPAQAADRPAPARVQRFKSL  
GCVHTPPTVAGGGQNFDPYLPSTSVYSPQPPSITENAAMDARGLQEEPEVGTSMVGSGLNP  
YMDFPPTDTLGYGGPEGAAAEPYGARGPGSLPLGPGPPTNYGNPCPQQASYPDPTQETW  
GEFPSHSGLYPGKALGGTYSQCPRLEHYGQVQVKPEQGCPVGSdstGLAPCLNAHPSEG  
PPHPQLPFSHYPPQSPPYLQSGPYTQPPPDYLPSEPRPCLDFDSPHSTGQLKAQLVCN  
YVQSQQELLWEGGGREDAPAEPSYQSPKFLGGSQVSPSRAKAPVNTYGPFGPNLPNHK  
SGSYPTPSPCHENFVVGANRASHRAAAPPRLPPLPTCYGPLKVGGTNPSCGHPEVGRLG  
GGPALYPPPEGQVCNPLDSLDDNTQLDFVAILDEPQGLSPPPSHDQRGSSGHTPPPSGP  
PNMAVGNMSVLLRSLPGETEFLNSSA

>sp|P10071|GLI3\_HUMAN Transcriptional activator GLI3 OS=Homo sapiens GN=GLI3 PE=1 SV=6

MEAQSHSSTTTEKKKVENSIVKCSRTRTDVSEKAVASSTTSNEDESPGQTYHRERRNAITM  
QPQNVQGLSKVSEEPSTSSDERASLIKKEIHGSLPHVAEPSVPYRGTVFAMDPRNGYMEP  
HYHPPHLFPAFHPPVPIDARHHEGRYHYDPSPIPLHMTSALSSSPTYDLPFIRISPHR  
NPTAASESPFSPPHPYINPYMDYIRSLHSSPSLSMISATRGLSPTDAPHAGVSPA EYHQ  
MALLTGQRSPYADIIPSAATAGTGAIHMEYLHAMDSTRFSSPRLSARPSRKRTLSISPLS  
DHSFDLQTMIRTSPNSLVITLNNRSSSSASGSYGHLASAI SPALSFTYSSAPVSLMHM  
QQILSRQQSLGSAFGHSPPLIHPAPTFTPTQRPPIPGIPTVLNPVQVSSGPSESSQNKPTSE  
SAVSSGTGDPMHNKRKSIKPEDLPSPGARGQQEQPEGTTLVKEEGDKDESKQEPEVIYET  
NCHWEGCAREFDTEQLVHHINNDHIHGEKKEFVCRWLDCSREQKPFKAQYMLVVHMRRH  
TGEKPHKCTFEGCTKAYSRLLENLKTHLRSHTGEKPYVCEHEGCNKAFSNASDRAKHQNR  
HSNEKPYVCKIPGCTKRYTDPSSLRKHVKTVHGPEAHVTKKQRGDIHPRPPPPRDSGSHS

QSRSPGRPTQGALGEQQDLNNTTSKREECLQVKTVKAKEPMTSQPSPGGQSSCSSQQSPI  
SNYSNSGLELPLTDGGSIGDLSAIDETPIMDSTISTATTALALQARRNPAGTKWMEHVKL  
ERLKQVNGMFRLNPILPPKAPAVSPLIGNGTQSNNTCSLGGPMTLLPGRSDLSGVDVTM  
LNMLNRRDSSASTISSAYLSSRRSSGISPCFSSRRSSEASQAEGRPQNVSVADSYDPIST  
DASRRSSEASQSDGLPSLLSLTPAQYRLKAKYAAATGGPPPTPLPNMERMSLKTRLALL  
GDALEPGVALPPVHAPRRCDGGAHGYGRRHLQPHDAPGHGVRASDPVRTGSEGLALPR  
VPRFSSLSSCNPPAMATSAEKRLVLQNYTRPEGGQSRNFHSSPCPPSITENVLTLESLTM  
DADANLNDEDFLPDDVVQYLNQSQAGYEQHFPSALPDDSKVPHGPGDFDAPGLPDSHAG  
QQFHALEQPCPEGSKTDLP IQWNEVSSGSADLSSSKLKCGPRPAVPQTRAFGFCNGMVVH  
PQNPLRSGPAGGYQTLGENSNPYGGPEHMLHNSPGSGTSGNAFHEQPCAPQYGNCLNR  
QPVAPGALDGACGAGIQASKLKSTPMQGGGQLNFGLPVAPNESAGSMVNGMQNDPVGQ  
GYLAHQLLGDSMQHPGAGRPGQMLGQISATSHINIYQGPESCLPGAHGMSQPSSLAVV  
RGYQPCASFGGSRQAMPRLSLALQSGQLSDTSQTCRVNGIKMEMKGQPHPLCSNLQNY  
GQFYDQTVGFSQQDTKAGSFSISDASCLLQGTSAKNSSELLSPGANQVTSTVDSLDSHDLE  
GVQIDFDAIIDDGDHSSLSMSGALSPSIIQNLSHSSSRLTTPRASLPFPALSMSTTNMAIG  
DMSSLLTSLAEESKFLAVMQ

>sp|Q16775|GLO2\_HUMAN Hydroxyacylglutathione hydrolase, mitochondrial OS=Homo sapiens  
GN=HAGH PE=1 SV=2

MVVGRLGLGRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDN  
YMYLVIDDETKAAIIVDPVQPKVVDAAARKHGVKLTTVLTTHHHWDHAGGNEKLVKLESG  
LKVYGGDDRIGALTHKITHLSTLQVGSNLVKCLATPCHTSGHICYFVSKPGGSEPPAVFT  
GDTLTVAGCGKFYEGETADEMCKALLEVLGRLPPDTRVYCGHEYTINNLKFARHVEPGNAA  
IREKLAWAKEKYSIGEPTVPSTLAEFTYNPFMRVREKTVQQHAGETDPVTTMRAVRREK  
DQFKMPRD

>sp|Q9HC38|GLOD4\_HUMAN Glyoxalase domain-containing protein 4 OS=Homo sapiens GN=GLOD4  
PE=1 SV=1

MAARRALHFVFKVGNRFQTARFYRDVLGMKVESCSVARLECSGAISAHCSDYTRITEDSF  
SKPYDGKWSKTMVGFPEDDHFVAELTYNYGVGDYKLGNDFMGITLASSQAVSNARKLEW  
PLTEVAEGVFETEAPGGYKFYLQNRSLPQSDPVLKVTLAVSDLQKSLNYWCNLLGMKIYE  
KDEEKQRALLGYADNQCCKLELQGVKGGVDHAAAFGRIAFSCPQKELPDLEDLMKRENQKI  
LTPLVSLDTPGKATVQVVILADPDGHEICFVGDEAFRELSKMDPEGSKLLDDAMAADKSD  
EWFAKHNKPKASG

>sp|A6NK44|GLOD5\_HUMAN Glyoxalase domain-containing protein 5 OS=Homo sapiens GN=GLOD5  
PE=1 SV=3

MLRHLPRLPVKMWGRTLEKQSWRDSSQTPPPCLIRRLDHIVMTVKS IKDTTMFYSKILG  
MEVMTFKEDRKALCFGDQKFNLHEVGKEFEPKAAHPVPGSLDICLITEVPLEEMIQHLKA  
CDVPIEEGPVPRTGAKGPIMSIYFRDPDRNLIEVSNYISS

>sp|P04921|GLPC\_HUMAN Glycophorin-C OS=Homo sapiens GN=GYPC PE=1 SV=1

MWSTRSPNSTAWPLSLEPDPGMASASTTMHTTTIAEPDPGMSGWPDGRMETSTPTIMDIV  
VIAGVIAAIVLVSLLFVMLRYMYRHKGTYHTNEAKGTEFAESADAALQGDPALQDAGD  
SSRKEYFI

>sp|P23415|GLRA1\_HUMAN Glycine receptor subunit alpha-1 OS=Homo sapiens GN=GLRA1 PE=1  
SV=2

MYSFNTLRLLYLWETIVFFSLAASKEAEAARSAPKPMSPSDFLDKLMGRTSGYDARIRPNF

KGPPVNVSCNIFINSFGSIAETTM DYRVNIFLRQQWNPRLAYNEYPDDSLDLDP SMLDS  
IWKPD LFFANEKGAHFHEITTDNKL LRISRNGNVLYSIRITLTLACPM DLKNFPM DVQTC  
IMQLESFGYTMNDLIFEWQE QGAVQVADGLTLPQFILKEEKDLRYCTKH YNTGKFTCIEA  
RFHLERQM GYYLIQMYIP SLLIVILSWISFWINMDAAPARVGLGITT VLTMTTQSSGSRA  
SLPKVS YVKAIDIWMAVCLLFVFSALLEYAAVNFVSRQHKELLRFRRRRHHKSPMLNLF  
QEDEAGEGRFNFSAYGMGPACLQAKDGISVKGANNSTTNPP PAPS KSPEEMRKLFIQRA  
KKIDKISRIGFPM AFLIFNMFYWIIYKIVRREDVHNQ

>sp|P34897|GLYM\_HUMAN Serine hydroxymethyltransferase, mitochondrial OS=Homo sapiens  
GN=SHMT2 PE=1 SV=3

MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSDPEMWELL  
QREKDRQCRGLEL IASENFC SRAALEALG SCLNNKYSEGYPGK RYYGGAEV VDEIELLCQ  
RRALEAFDLDP AQWGVNVQPYSGSPANLAVYTALLQPHDRIMGLDLPDGGHLTHGYMSDV  
KRISATSIFFESMPYKLNPKTGLIDYNQLALTARLFRPRLI IAGTSAYARLIDYARMREV  
CDEVKAHLLADMAHISGLVAAKVIPSPFKHADIVTTTTTHKTLRGARSGLI FYRKGVKAVD  
PKTGREIPYTFEDRINF AVFPSLQGGPHNHAIAAVAVALKQACTPMFREYSLQVLKNARA  
MADALLERGYSLVSGGTDNHLVLVDLRPKGLDGARAERVELV SITANKNTCPGDRSAIT  
PGGLRLGAPALTSRQFREDDFRRVVDFIDEGVNIGLEVKSKTAKLQDFKSFLLDSETSQ  
RLANLRQRVEQFARAFPM PGFDEH

>sp|Q96IK5|GMCL1\_HUMAN Germ cell-less protein-like 1 OS=Homo sapiens GN=GMCL1 PE=1 SV=1

MGSLSSRVLRQPRPALAQQAQGARAGGSARRPDTGDDAAGHGFCYCAGSHKRKRSSGSFC  
YCHPDSETDEDEEEGDEQRLNTPRRKKLKSTSKYIYQTLFLNGENSDIKICALGEEWS  
LHKIYLCQSGYFSSMFSGSWKESSMNIIELEIPDQNI DVEALQVAFGSLYRDDVL IKPSR  
VVAILAAACLQLDGLIQQCGETMKETVNVKTVCGYYTSAGTYGLDSVKKKCLEWLLNNL  
MTHQNVELFKELGINVMKQLIGSSNL FVMQVEMDIYTALKKWMFLQLVPSWNGSLKQLLT  
ETDVWFSKQRKDFEGMAFLETEQGKPFVSVFRHLRLQYIISDLASARIIEQDAVPSEWL  
SSVYKQQWFAMLRAEQDSEVGPQEINKEELEGSMRCGRKLAKDGEYCWRWTGFNFGFDL  
LVITYNRYIIFKRNTLNQPCSGSVSLQPRRSIAFRLRLASFDSSGKLICSR TTGYQILTL  
EKDQEQQVMNLD SRLLIFPLYICCNFLYISPEKKN

>sp|Q8NEA9|GMCLL\_HUMAN Putative germ cell-less protein-like 1-like OS=Homo sapiens  
GN=GMCL1P1 PE=1 SV=1

MGSSSSRVLGQPRRALAQEQGARARGSARRPDTGDDAASYGFCYCPGSHKRKRSSGACR  
YCDPDSHREEHEEEGDKQQLNTPARKKL RSTSKYIYQTLFLNGENSDIKICALGEEWR  
LHKIYLCQSGYFSSMFSGSWKESSMNIIELEIPDQNI DV DALQVAFGSLYRDDVL IKPSR  
VVAILAAACMLQLDGLIQQCGETMKETINVKTVCGYYTSVEIYGLDSVKKKCLEWLLNNL  
MTHQNVKLFKELGINVMKQLIGSSNL FVMQVEMDVYTTLKKWMFLQLVPSWNGSLKQLLT  
ETDVWFSKQRKDFEGMAFLETEPGKPFVSVFRHLRLQYIISDLASARIIEQDGIVPSEWL  
SSVYKQQWFAMLRAEQDHEVGPQEINKEDLEGSSMRCGRKLAKDGEYYWCWTGFNFGFDL  
LVIYTNGYIIFKRNTLNQPCSGSVSLRPRRSIAFRLRLASFDSSGKLVC SR TTGYQILIL  
KKDQEQQVMNLD SRFLT FPLYICCNFLYISPEKGIENNRHPEDPEN

>sp|Q9Y692|GMEB1\_HUMAN Glucocorticoid modulatory element-binding protein 1 OS=Homo  
sapiens GN=GMEB1 PE=1 SV=2

MANAEVSVPVGDVVVPTEGNEGENPEDTKTQVILQLQP VQQGLFIDGHFYNRIYEAGSE  
NNTAVVAVETHTHIHKIEEGIDTGTIEANEDMEIAYPITCGESKAILLWKKFVCPGINVKC  
VKFNDQLISP KHFVHLAGKSTLKDWKRAIRLGGIMLRKMMDSGQIDFYQHDKVCSNTCRS



TKFDLLISSARAPVPGQQTSVVQTPTSADGSITQIAISEESMEEAGLEWNSALTA AVTMA  
TEEGVKKDSEEISEDTLMFWKGIADVGLMEEVVCNIQKEIEELLRGVQQRLIQAPFQVTD  
AAVLNNVAHTFGLMDTVKKVLNRRNQVEQGEEQFLYTLTDLERQLEEKKQGGQDHRLKS  
QTVQNVVLMVPSTPKPPKRPRLQRPASTTVLSPSPVQPPQFTVISPITITPVGGSFSGM  
NIPVATLSQGSSPVTVHTLPSGPQLFRYATVVSSAKSSSPDVTIHPSSSLALLSSTAMQ  
DGSTLGNMTTMVSPVELVAMESGLTSAIQAVESTSEDGQTIIEIDPAPDPEAEDTEGKAV  
ILETELRTTEEKVVAEMEEHQHVHNVEIVVLED

>sp|Q99445|GML\_HUMAN Glycosyl-phosphatidylinositol-anchored molecule-like protein  
OS=Homo sapiens GN=GML PE=2 SV=1

MLLFALLAMELPLVAASATMRAQWTYSLRCHDCAVINDFNCPNIRVCPYHIRRCMTISI  
RINSRELLVYKNTNCTFVYAAEQPPEAPGKIFKTNSFYWCCNSMVCNAGGPTNLER  
DMLPDEVTEEELPEGTVRLGVSKLLLSFASIIIVSNILP

>sp|P38405|GNAL\_HUMAN Guanine nucleotide-binding protein G(olf) subunit alpha OS=Homo  
sapiens GN=GNAL PE=1 SV=1

MGCLGNSKTTEDQGVDEKERREANKKIEKQLQKERLAYKATHRLLLLGAGESGKSTIVK  
QMRILHVNGFNPEEKKQKILDIRKNVKDAIVTIVSAMSTIIPPVPLANPENQFRSDYIKS  
IAPITDFEYSQEFDHVKKLWDDEGVKACFERSNEYQLIDCAQYFLERIDSVSLVDYTPT  
DQDLLRCRVLTSGLFETRFQVDKVNFMFDVGGQRDERRKWQCFNDVTAIYVAACSSY  
NMVIREDNNTNRLRESLDLFESIWNRRWLRTISIIILFLNKQDMLAEKVLGKSKIEDYFP  
EYANYTVPEDATPDAGEDPKVTRAKFFIRDLFLRISTATGDGKHYPHFTCAVDTENIR  
RVFNDCRDIIQRMHLKQYELL

>sp|P09471|GNAO\_HUMAN Guanine nucleotide-binding protein G(o) subunit alpha OS=Homo  
sapiens GN=GNAO1 PE=1 SV=4

MGCTLSAEERAALERSKAIEKNLKEDGISAAKDVKLLLLGAGESGKSTIVKQMKIIHEDG  
FSGEDVKQYKPVVYSNTIQSLAAIVRAMDTLGLIEYGDKERKADAKMVCVDSRMEDTEPF  
SAELLSAMMRLWGDSGIQECFNRSREYQLNDSAKYYLDSLDRIGAADYQPTAQDILRTRV  
KTTGIVETHFTFKNLHFRLFDVGGQRSEKRWIHCFFEDVTAIIFCVALSQYDQVLHEDET  
TNRMHESLMLFDSICNNKFIDTSIIILFLNKKDLFGEKIKKSPLTICFPEYTGPNITYEDA  
AAYIQAQFESKNRSPNKEIYCHMTCATDTNNIQVVFDAVTDIIANNLRGCGLY

>sp|Q5JWF2|GNAS1\_HUMAN Guanine nucleotide-binding protein G(s) subunit alpha isoforms  
XLas OS=Homo sapiens GN=GNAS PE=1 SV=2

MGVRNCLYGNNMSGQRDIPPEIGEPEQPPEAPGAAAPGAGPSPAEEEMETEPHNEPIP  
VENDGEACGPPEVSRPNFQVLNPAFREAGAHGSYSPPEEAMPFEAEQPSLGGFWPTLEQ  
PGFPSGVHAGLEAFGPALMEPGAFSGARPGLGGYSPPPEEAMPFEFDQPAQRGCSQLLLQ  
VPDLAPGGPGAAGVPGAPPEEPQALRPAKAGSRGGYSPPPEETMPFELDGEGFGDSSPPP  
GLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVPGAIGSPSQEAVRPPSNFTGSSP  
WMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPPVEEEAAE  
MEGAADAAEGKVPSPGYGSPAAGAASADTAARAAPAAPADPDSGATPEDPDSGTAPADP  
DSGAFAADPDGAAPAAPADPDGAAPDAPADPDGAAPDAPADPDAGAAPEAPAAPAAA  
ETRAAHVAPAAPDAGAPTAPAASATRAAQVRRRAASAAPASGARRKIHLRPPSPEIQAADP  
PTPRPTRASAWRGKSESSRGRVYYDEGVASSDDSSGDESDDGTSGCLRWFQHRRNRRR  
RKPQRNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKVPLAEKRRQMRKEALEKRAQKR  
AEKKRSKLIDKQLQDEKMGYMCTHRLLLLGAGESGKSTIVKQMRILHVNGFNNGEGGEDP  
QAARSNSDGEKATKVQDIKNNLKEAIIETIVAAMSNLVPPVELANPENQFRVDYILSVMNV

PDFDFPPEFYEHAKALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDL  
LRCRVLTSGIFETKFQVDKVNFMFDVGGQRDERRKWIQCFNDVTAIIFVVASSSYNMVI  
REDNQTNRLQEALNLFKSIWNNRRLRTISVILFLNKQDLLAEKVLAKGSKIETYFPEFAR  
YTPPEDATPEPGEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFTCAVDTENIRRVFN  
DCRDIIQRMHLRQYELL

>sp|Q9BYB4|GNB1L\_HUMAN Guanine nucleotide-binding protein subunit beta-like protein 1  
OS=Homo sapiens GN=GNB1L PE=1 SV=2

MTAPCPPPPDPQFVLRGTQSPVHALHFCEGAQAQGRPLLFSGSQSGLVHIWSLQTRRAV  
TTLDGHGGQCVTWLQTLPPQGRQLLSQGRDLKLCLWDLAEGRSADVDSVCLESVGFCSRSSI  
LAGGQPRWTLAVPGRGSDEVQILEMPSTSVCALPKADAKLGMPMCLRLWQADCSSRPL  
LLAGYEDGSVVLWDVSEKQVCSRIACHEEPVMDLDFDSQKARGISGSAGKALAVWSLDWQ  
QALQVRGTHELTNPGLAEVTIRPDRKILATAGWDHRIRVFHWRTMQPLAVLAFHSAAVQC  
VAFTADGLLAAGSKDQRISLWSLYPRA

>sp|P10075|GLI4\_HUMAN Zinc finger protein GLI4 OS=Homo sapiens GN=GLI4 PE=1 SV=2

MAALGDIQESPSVSPVSLSSPGTPGTQHHEPQLHLHGHHGSPGSSPKVLSQPSDLDLQ  
DVEEVEIGRDTFWPDSEPKPEQAPRSPGSQAPDEGAGGALRSLRLPRRARCSAGFGPE  
SSAERPAGQPPGAVPCAQPRGAWRVTLVQAAAAGPEGAPERAAELGVNFGRSRQGSARGA  
KPHRCEACGSKFYNSLLKHKRIHTGEKPYACHECGKRFRGWSGFIQHHRHTHTGEKPYE  
CGQCGRAFSHSSHTQHLRIHNGEKPYKCGECGQAFSQSSNLVRHQLHTGEKPYACSCQ  
GKAFIWSSVLIHQRIHTGEKPYECSDCGKAFRGRSHFRHLRTHHTGEKPFACGACGKAF  
GQSSQLIQHQRVHYRE

>sp|P43220|GLP1R\_HUMAN Glucagon-like peptide 1 receptor OS=Homo sapiens GN=GLP1R PE=1  
SV=2

MAGAPGPLRLALLLLGMVGRAGPRPQGATVSLWETVQKWREYRRQCQRSLTEDPPPATDL  
FCNRTFDEYACWPDGEPGSFVNVSCLPWPASSVPQGHVYRFCTAEGWLQKDNSSLPW  
RDLSECEESKRGERSSPEEQLLFLYIIYTVGYALSFSALVIASAILLGRHLHCTRNYIH  
LNLFAFILRALSVFIKDAALKWMYSTAAQQHQWDGLLSYQDSLSCRLVFLMQYCVAAAN  
YYWLLVEGVLYTLTAFSVLSEQWIFRLYVSIGWGVPLLFVVPWGIVKYLYEDEGCWTRN  
SNMNYWLIIRLPILFAIGVNFLIFVRVICIVVSKLKANLMCKTDIKRLAKSTLTLLIPLL  
GTHEVIFAFVMDHARGTLRFIKLFTLSFTSFQGLMVAILYCFVNNEVQLEFRKSWERW  
RLEHLHIQRDSSMKPLKPTSSLSGATAGSSMYTATCQASCS

>sp|O95838|GLP2R\_HUMAN Glucagon-like peptide 2 receptor OS=Homo sapiens GN=GLP2R PE=2  
SV=1

MKLGSRRAGPGRGSAGLLPGVHELPMGIPAPWGTSPLSFHRKCSLWAPGRPFLTLLVLS  
IKQVTGSLLEETTRKWAQYKQACLRLDLKEPSGIFCNGTFDQYVCWPHSSPGNVSVPCPS  
YLPWWSEESSGRAYRHCLAQGTWQTIENATDIWQDDSECSNHSFKQNVDRYALLSTLQL  
MYTVGYSFSLISLFLALTLLLFLRKLHCTRNYIHMNLFAFILRTLAVLVKDVVFYNSYS  
KRPDNENGWMSYSEMSTSCRSVQVLLHYFVGANYLWLLVEGLYLHTLEPTVLPERRLW  
PRYLLLGWAFPVLFVVPWGFARAHLENTGCWTTNGNKKIWWIIRGPMMLCVTVNFFIFLK  
ILKLLISKLKAHQMCFRDYKYRLAKSTLVLIPLLGVHEILFSFITDDQVEGFAKLIRLFI  
QLTLSSFHGFLVALQYGFANGEVKAELRKYWVRFLARHSGCRACVLGKDFRFLGKCPKK  
LSEGDGAELKRLKPSLNSGRLLHLAMRGLGELGAQPPQDHARWPRGSSLSECSEGDVTM  
ANTMEEILEESEI

>sp|Q9H4A5|GLP3L\_HUMAN Golgi phosphoprotein 3-like OS=Homo sapiens GN=GOLPH3L PE=1 SV=1

MTTLTHRARRTEISKNSEKKMESEEDSNWEKSPDNEDSGDSKDIRLTLMEEVLLLGLKDK  
EGYTSFWNDCISSGLRGGILIELAMRGRIYLEPPTMRKKRLDRKVLLKSDSPTGDVLLD  
ETLKHIAKATEPTETVQTWIELLTGETWNPFLQYQLRNVREERIAKNLVEKGILTTEKQNF  
LLFDMTTHPVTNTTEKQRLVKKLQDSVLERWVNDPQRMDKRTLALLVLAHSSDVLENVFS  
SLTDDKYDVAMNRAKDLVELDPEVEGTKPSATEMIWAVLAAFNKS

>sp|076003|GLRX3\_HUMAN Glutaredoxin-3 OS=Homo sapiens GN=GLRX3 PE=1 SV=2

MAAGAAEAAVAAVEEVGSAGQFEELLRLKAKSLLVVHFWAPWAPQCAQMNEVMAELAKEL  
PQVSFVKLEAEGVPEVSEKYEISSVPTFLFFKNSQKIDRLDGAHAPELTKKVQRHASSGS  
FLPSANEHLKEDLNLRLKKLTHAAPCMLFMKGTPQEPRCGFSKQMVILHKHNIQFSSFD  
IFSDEEVRQGLKAYSSWPTYPQLYVSGELIGGLDIKELEASEELDTICPKAPKLEERLK  
VLTNKASVMLFMKGKQEAACGFSKQILEILNSTGVEYETFDILEDEEVRQGLKAYSNWP  
TYPQLYVKGELVGGLDIVKELKENGELLPILRGEN

>sp|Q5SZD4|GLYL3\_HUMAN Glycine N-acyltransferase-like protein 3 OS=Homo sapiens  
GN=GLYATL3 PE=2 SV=3

MLVLNCSTKLLILEKMLKSCFPESLKVYGAVMNINRGNPQKEVVLDSPDFKAVITRRQ  
REAETDNL DHYTNAYAVFYKDVRAIRQLLEECDVFNWDQVFQIQGLQSELYDVSKAVANS  
KQLNIKLTSFKAVHFSPVSSLPDTSFLKGPSRLTYLSVANADLLNRTWSRGGNEQCLRY  
IANLISCFPSVCVRDEKGNPVSWSIDQFATMCHGYTLPEHRRKGYSRLVALTLARKLQS  
RGFPSQGNVLDNTASISLLKSLHAEFLPCRFRHLILTPATFSGPLHL

>sp|Q49A26|GLYR1\_HUMAN Putative oxidoreductase GLYR1 OS=Homo sapiens GN=GLYR1 PE=1 SV=3

MAAVSLRLGDLVWGKLGYPWPWGKIVNPPKDLKKPRGKCCFFVKFFGTEDHAWIKVEQL  
KPYHAHKEEMIKINKGRFQQAVDAVEEFLRAKAGKDQTSSHNSDDKNRRNSSEERSRP  
NSGDEKRKLSLSEGVKVKNMGEKGRVSSGSSERGSKSPKRAQEQQSPRKRGRPPKDEKD  
LTIPESSTVKGMMAGPMAAFKWQPTASEPVKDADPHFHHFLLSQTEKPAVCYQAITKKLK  
ICEEETGSTSIQAADSTAVNGSITPTDKKIGFLGLGLMSGIVSNLLKMGHTVTTVWNRTA  
EKCDLFIQEGARLGRTPAEVVSTCDITFACVSDPKAAKDLVLGPSPVLQGIIRPGKCYVDM  
STVDADTVTELAQVIVSRGGRFLEAPVSGNQQLSNDGMLVILAAGDRGLYEDCSSCFQAM  
GKTSFFLGEVGNAAKMMLIVNMVQGSFMATIAEGLTLAHTVGQSQQTLILDILNQQLASI  
FLDQKCNILQGNFKPDFYLKYIQKDLRLAIALGDAVNHPMPMAAAANEVYKRAKALDQS  
DNDMSAVYRAYIH

>sp|Q14344|GNA13\_HUMAN Guanine nucleotide-binding protein subunit alpha-13 OS=Homo  
sapiens GN=GNA13 PE=1 SV=2

MADFLPSRSVLSVCFPGCLLTSGEAEQQRKSKEIDKCLSREKTYVKRLVKILLGAGESG  
KSTFLKQMRIIHGQDFDQARAREEFRPTIYSNVIKMRVLVDAREKLHIPWGDNSNQHQGD  
KMMSFDTRAPMAAQGMVETRVFLQYLPALRALWADSGIQNAYDRRREFQLGESVKYFLDN  
LDKLGEPDYIPSQQDILLARRPTKGIHEYDFEIKNVPFKMVDVGGQRSEKRWFECDVSV  
TSILFLVSSSEFDQVLMEDRLTNRLTESLNIFETIVNNRVFSNVSIILFLNKTDLLEEKV  
QIVSIKDYFLEFEGDPHCLRDVQKFLVECFRNKRRDQQQKPLYHHFTTAINTENIRLVFR  
DVKDTILHDNLKQLMLQ

>sp|A8MTJ3|GNAT3\_HUMAN Guanine nucleotide-binding protein G(t) subunit alpha-3 OS=Homo  
sapiens GN=GNAT3 PE=2 SV=2

MSGGISSESKESAKRSKELEKKLQEDAERDARTVKLLLLGAGESGKSTIVKQMKIIHKNG  
YSEQECMEFKAVIYSNTLQSI LAIVKAMTTLGIDYVNPRSAEDQRQLYAMANTLEDGGMT  
PQLAEVIKRLWRDPGIQACFERASEYQLNDSAAYYLNDLDRITASGYVPNEQDVLHSRVK

TTGIIETQFSFKDLHFRMFVGGQRSEKRWIHCFEVTCIIFCAALSAYDMVLVEDEEV  
NRMHESLHLFNSICNHKYFSTTSIVLFLNKKDIFQEKVTKVHLSICFPEYTGPNTFEDAG  
NYIKNQFLDLNLKKEDKEIYSHMTCATDTQNVKFVFDVTDIIKENLKDCLF

>sp|P36915|GNL1\_HUMAN Guanine nucleotide-binding protein-like 1 OS=Homo sapiens GN=GNL1  
PE=1 SV=2

MPRKKPFSVKQKKQLQDKRERKRGLQDGLRSSNSRSGSRERREEQTDTSDGESVTHHI  
RRLNQPSQGLGPRGYDPNRYRLHFERDSREEVERRKRAAREQVLQPVSAELLELDIREV  
YQPGSVLDFPRRPWSYEMSKEQLMSQEERSFQDYLGIHGAYSSEKLSYFEHNLETWRQ  
LWRVLEMSDIVLLITDIRHPVNFPPALYEVVTGELGLALVLVNLKVDLAPPALVVAWKH  
YFHQHPQLHVLFSTFPRDPRTPQDPSSVLKKSRRRGRGWTRALGPEQLLRACEAITVG  
KVDLSSWREKIARDVAGATWNGSGEEEEEDGPAVLVEQQTDSAMEPTGPTQERYKDG  
VTIGCVGFPNVGKSSLINGLVGRKVVSVSRTPGHTRYFQTYFLTPSVKLCDCPGLIFPSL  
LPRQLQVLAGIYPIAQIQEPTYAVGYLASRIPVQALLHLRHPAEDPSAHPWCAWDICE  
AWAEKRGYKTAKAARNVYRAANSLRLAVDGRSLCFHPPGYSEQKGTWESHPETTEL  
VLQGRVGPAGDEEEEEELSSCEEEGEEDRDADEEGEGDEETPTSAPGSSLAGRNPYA  
LLGEDEC

>sp|P46926|GNPI1\_HUMAN Glucosamine-6-phosphate isomerase 1 OS=Homo sapiens GN=GNPDA1 PE=1  
SV=1

MKLIILEHYSQASEWAAKYIRNRIIQFNPGPEKYFTLGLPTGSTPLGCYKKLIEYYKNGD  
LSFKYVKTFNMEYVGLPRDHPESYHSFMWNFFKHIDIHPTHILDGNAVDLQAECDA  
FEEKIKAAAGGIELFVGGIGPDGHIAFNEPGSSLVSRTRVKTLAMDTILANARFFDGELTK  
VPTMALTVGVGTVMADREVMILITGAHKAFALYKAIEEGVNHMTVSAFQQHPRTVFVCD  
EDATLELKVKTVKYFKGLMLVHNKLVDPLYSIKEKETESQSSKKPYSD

>sp|Q9UJJ9|GNPTG\_HUMAN N-acetylglucosamine-1-phosphotransferase subunit gamma OS=Homo  
sapiens GN=GNPTG PE=1 SV=1

MAAGLARLLLLLGLSAGGPAPAGAAKMKVVEEPNAGVNNPFLPQASRLQAKRDPSPVSG  
PVHLFRLSGKCFSLVESTYKYEFPCPHNVTQHEQTFRWNAYSIGILGIWHEWIANNTFTG  
MWMRDGDACRSRSRQSKVELACGKSNRLAHVSEPSTCVYALTFETPLVCHPHALLVYPTL  
PEALQRQWDQVEQDLADELITPQGHEKLLRTLFDAGYLKTPEENEPTQLEGGPDSLGF  
TLENCRKAHKELSKEIKRLKGLLTQHGIPYTRPTETSNLEHLGHETPRAKSPEQLRGDPG  
LRGSL

>sp|P15586|GNS\_HUMAN N-acetylglucosamine-6-sulfatase OS=Homo sapiens GN=GNS PE=1 SV=3

MRLPLAPGRLRRGSPRHLPS CSPALLLVGGCLGVFGVAAGTRRPNVVLLLTDDQDEV  
LGGMTPLKKTALIGEMGMTFSSAYVPSALCCPSRASILTGYPHNHVNNLTLEGNCSS  
KSWQKIQEPNTFPAILRSMCGYQTFAGKYLNEYGAPDAGGLEHVPLGWSYWYALEKNSK  
YYNYTLSINGKARKHGENYSVDYLTDLANVSLDFLDYKSNFEPFFMMIATPAPHSPWTA  
APQYQKAFQNVFAPRNKNFNHGTNKHWRIRQAKTPMTNSSIQFLDNAFRKRWQTLLSVD  
DLVEKLVKRLEFTGELNNTYIFYTSDNGYHTGQFSLPIDKRQLYEFDIKVPLLVRGPGIK  
PNQTSKMLVANIDLGPITLDIAGYDLNKTQMDGMSLLPILRGASNLWRSVDLVEYQEG  
RNVTDPTCPSLSPGVSQCFPDCVCEDAYNNTYACVRTMSALWNLQYCEFDQEVFVEVYN  
LTADPDQITNIAKTIDPELLGKMNYRLMMLQSCSGPTCRTPGVFDPGYRFDPRLMFSNRG  
SVTRRRFSKHL

>sp|Q9H2G9|G045\_HUMAN Golgin-45 OS=Homo sapiens GN=BLZF1 PE=1 SV=2

MTTKNLETKVTVTSSPIRGAGDGMETEEPPKSVEVTSGVQSRKHSLQSPWKKAVPSESP

GVLQLGKMLTEKAMEVKAVRILVPKAAITHDIPNKNTKVKSLGHHKGEFLGQSEGVIEPN  
KELSEVKNVLEKLKNSERRLLQDKEGLSNQLRVQTEVNRELKKLLVASVGDDLQYHFERL  
AREKNQLILENEALGRNTAQLSEQLERMSIQCDVWRSKFLASRVMADELNSRAALQRQN  
RDAHGAIQDLLSEREQFRQEMIATQKLLEELLVSLQWGREQTYSPSVQPHSTAELALTNH  
KLAKAVNSHLLGNVGINNKKIPSTVEFCSTPAEKMAETVLRILDPTCKESSPDNPFFE  
SSPTTLLATKKNIGRFHPYTRYENITFNCCNHCRGELIAL

>sp|A7E2F4|GOG8A\_HUMAN Golgin subfamily A member 8A OS=Homo sapiens GN=GOLGA8A PE=2 SV=3  
MLPVDGEERKSEGSDEGDRTPCAVSSATLKDLEVGSGRRCSDPAGQPSNLLPQRGLG  
APLPAETAHTQPSPNDRSLYLSPKSSSASSSLHARQSPCQEQA AVLNSRSIKISRLNDTI  
KSLKQKKQVEHQLEEEKKANNEKQKAERELEGQIQRLNTEKKLNTDLYHMKHSLRYFE  
EESKDLAQLRQSSQRIGELEWSLCAVAATQKKKPDGFSSRSKALLKRQLEQSIREQILL  
KGHVTLQKESLKEVQLERDQYAEQIKGERAQWQQRMRKMSQEVCTLKEEKKHDTHRVEEL  
ERSLSRLKNQMAEPLPPDAPAVSSEVELQDLRKELERVAGELQAQVENNQCISLLNRGQK  
ERLREQEERLQEQERLRERERKLQQLAEPQSDLEELKHENKSALQLEQQVKELQEKLGG  
VMETL TSAEKEPEAAVPASGTGGESSGLMDLLEEKADLREHVEKLELGFQYRRERCHQK  
VHRLLTEPGDSAKDASPGGGHHQAGPGQGGEEGAAGAAGDVAACGSYSEGHGKFLAAA  
RNPAAEPSPGAPAPQELGAADKHGDLCEASLTNSVEPAQGEAREGSSQDNPTAQPVVQLL  
GEMQDHQEHPLGSGNCCVPCFCWAWLPRRRR

>sp|POCJ92|GOG8H\_HUMAN Golgin subfamily A member 8H OS=Homo sapiens GN=GOLGA8H PE=3 SV=1  
MAEETQHKNLAAAKKKLKEYWQKNSPRVPAGANRNRKTNGSVPEKATSGGCQPPGDSATG  
FHREGPTSSATLKDLESPCQERAVVLD SRSVEISQLKNTIKSLKQKKQVEHQLEEEKKA  
NNKKQKAKRVLEVQIQTLNIQKGKLN TDLYHMKRSLRYFEEKSKDLAVCLQHSLQRKGEL  
ESVLSNVMATQKKKANQLSSRSKARTEWKLEQSMREEALLKVQLTQLKESFQQVQLERDE  
CAEHLKGERARWQQRMRKMSQEICTLKKEKQDMRVEKLERLSLKNQMAEPLPPEPP  
AVPSEVELQHLRKELERVAGELQAQVKKNQRISLLNQRQEERIQQEERLRKQEERIQQ  
HKSLLQAKPQSVFEEPPNNENKNALQLEQQVKELQEKLGEHLEAASQQNQQLTAQLSLM  
ALPGEGHGGHLDSEGEAAPRPMPSVPEDPESREAMSSFMDHLEEKADLSELVKKKELCF  
IHHWRDRCHQKTHHLLSEPGGRAKDAALGGGHHQAGAQQGDEGEAAGAAADGIAAYSNN  
NGHRKFLLAAAHNSADEPGGAPAPQELGAADKHGDLCEVSLTSSAQGEAREDPLLDKPTA  
QPIVQDHQEHPLGSGNCCVPLLCWAWLPRRRR

>sp|D6RF30|GOG8K\_HUMAN Golgin subfamily A member 8K OS=Homo sapiens GN=GOLGA8K PE=3 SV=1  
MAEETQHKNLAAAKKKLKEYWQKNSPRVPAGANRNRKTNGSIPEKATSGGCQPPRDSATG  
FHREGPTSSATLKDLESPCQERAVVLD SRSVEISQLKNTIKSLKQKKQVEHQLEEEKKA  
NNKKQKAKRVLEVQIQTLNIQKEELNTDLYHMKRSLRYFEEKSKDLAVRLQHSLQRKGEL  
ESVLSNVMATQKKKANQLSSRSKARTEWKLEQSMREEALLKVQLTQLKESFQQVQLERDE  
YSEHLKGERARWQQRMRKMSQEICTLKKEKQDMRVEKLERLSLKNQMAEPLPPEPP  
AVPSEVELQHLRKELERVAGELQAQVKKNQRISLLNQRQEERIQQEERLRKQEERIQQ  
HKSLLQAKPQSVFEEPEHLEAASQQNQQLTAQLSLMALPGEGHGGHLDSEGEAAPQMP  
SVPEDLESREAMSSFMDHLKEKADLSELVKKELCFIHHWRDRRHQKTHHLLSEPGGCAKD  
AALGGGHHQAGAQQGDEGEAAGAAADGIAAYSNNNGHRKFLLAAAHNPADPGGAPAPQ  
ELGAADKHGDLREVSLTSSAQGEAREDPLLDKPTAQPIVQDHQEHPLGSGNCCVPLFCWA  
WLPRRRR

>sp|Q08379|GOGA2\_HUMAN Golgin subfamily A member 2 OS=Homo sapiens GN=GOLGA2 PE=1 SV=3  
MWPQPRLP RPAMSEETRQSKLAAAKKKLREYQQRNSPGVPTGAKKKKKIKNGSNPETTT

SGGCHSPEDTPKDNAATLQPSDDTVLPGGVPSPGASLTSMAASQNHADNVPNLMDETKT  
FSSTESLRQLSQQLNGLVCESATCVNGEGPASSANLKDLESRYQQLAVALDSSYVTNKQL  
NITIEKLKQQNQEI TDQLEEEKKECHQKQKQALREQLQVHIQTIGILVSEKAELQTALAHT  
QHAARQKEGESEDLASRLQYSRRRVGELERALS AVSTQQKKADRYNKELTKERDALRLEL  
YKNTQSNEDLKQEKSELEEKLRVLVTEKAGMQLNLEELQKKLEMTLELLQQFSSRCEAPD  
ANQQLQQAMEERAQLEAHLGQVMESVRQLQMERDKYAENLKGESAMWRQRMQMSEQVHT  
LREEKECSMSRVQELETSLAELRNQMAEPPPEPPAGPSEVEQQLQAEAEHLRKELEGLA  
GQLQAQVQDNEGLSRLNREQEERLLELERAELWGEQAEARRQILETMQNDRTTISRALS  
QNRELKEQLAELQSGFVKLTNENMEITSALQSEQHVKRELGKKLGELQEKLSELKETVEL  
KSQEAQSLQQQRDQYLGHLLQYYAAYQQLTSEKEVLHNQLLLQTQLVDQLQQQEAQKAV  
AEMARQELQETQERLEAATQQNQQLRAQLSLMAHPGEGDGLDREEEDEEEEEEAVVP  
QPMPSIPEDLESREAMVAFFNSAVASAEQQARLRGQLKEQVRRCRRLAHLASAQKEPE  
AAPAPGTGGDSVCGETHRALQGAMEKLSRFMELMQEKADLKERVEELEHRCIQLSGET  
DTIGEYIALYQSQRAVLKERHREKEEYISRLAQDKEEMVKLLELQELVLRVLVGDRENEWH  
GRFLAAQNPADPTSGAPAPQELGAANQQGDLCEVSLAGSVEPAQGEAREGSPRDNPTA  
QQIMQLLREMQNPRERPGLGSNPCIPFFYRADENDEVKITVI

>sp|Q9H4A6|GOLP3\_HUMAN Golgi phosphoprotein 3 OS=Homo sapiens GN=GOLPH3 PE=1 SV=1

MTSLTQRSSGLVQRRTEASRNAADKERAAGGGAGSSEDDAQSRREDEQDDDDKGDSKETRL  
TLMEEVLLLGLKDREGYTSFWNDICSSGLRGCMLELALRGRLQLEACGMRRKSLLTRKV  
ICKSDAPTGDVLLDEALKHVKETQPPETVQNWIELLSGETWNPLKLHYQLRNVRLAKN  
LVEKGVLTTEKQNFLLFDMTTHPLTNNNIKQRLIKKVQEAVLDKWVNDPHRMDRLLALI  
YLAHASDVLENAPFLDEQYDLATKRVRLDLDPEVECLKANTNEVLWAVVAAFTK

>sp|Q9Y3E0|GOT1B\_HUMAN Vesicle transport protein GOT1B OS=Homo sapiens GN=GOLT1B PE=1 SV=1

MISLTDQKIGMGLTGFGVFFLFFGMILFFDKALLAIGNVLFVAGLAFVIGLERTFRFFF  
QKHMKATGFFLGGVFVVLIGWPLIGMIFEIYGFFLLFRGFFPVVVGFI RRVPLGSLLN  
LPGIRSFVDKVGESNNMV

>sp|Q6DWJ6|GP139\_HUMAN Probable G-protein coupled receptor 139 OS=Homo sapiens GN=GPR139 PE=2 SV=1

MEHTHAHLAANSSLSWSPGSACGLGFVPVYYSLLLCLGLPANILTVIILSQLVARRQK  
SSYNYLLALAAADILVLFIVFVDFLLEDFILNMQMPQVPDKIIEVLEFSSIHTSIWITV  
PLTIDRYIAVCHPLKYHTVSYPARTRKVI SVYITCFLTSIPYYWWPNIWTEYISTSVH  
HVLIIWHCFTVYLVPCSIFFILNSIIIVYKLRRKSNFRLRGYSTGKTTAILFTITSIFATL  
WAPRIIMILYHLYGAPIQNRWLHIMSDIANMLALLNTAINFFLYCFISKFRFTMAAATL  
KAFFKCQKQPVFYTNHNSITSSPWISPANSHCIKMLVYQYDKNGKPIKVSP

>sp|P32189|GLPK\_HUMAN Glycerol kinase OS=Homo sapiens GN=GK PE=1 SV=3

MAASKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPPREGWVEQDPKEI  
LHSVYECIEKTCEKLGQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWLDLRTQ  
STVESLSKRIPGNNNFVKSKTGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKRALFGTIDS  
WLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLWDKQLCEFFGIPMEILPNVRSSSEIY  
GLMKISHSVKAGALEGVPI SGCLGDQSAALVGQMCQFQIGQAKNTYGTGCFLLCNTGHKCV  
FSDHGLLTTVAYKLGRDKPVVYALEGSVAIAGAVIRWLRDNLGI IKTSEEIEKLAKVGT  
SYGCFYVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRD  
CGIPLSHLQVDGGMTSNKILMLQADILYIPVVKPSMPETTALGAAMAAGAAEGVGVWSL

EPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWTTQSPESGDPSIFCSLPLGF  
FIVSSMVMLIGARYISGIP

>sp|Q86SX6|GLRX5\_HUMAN Glutaredoxin-related protein 5, mitochondrial OS=Homo sapiens  
GN=GLRX5 PE=1 SV=2

MSGSLGRAAAALLRWGRGAGGGGLWPGVRAAGSGAGGGGSAEQLDALVKKDKVVVFLKG  
TPEQPQCGFSNAVVQILRLHGVRYAAYNVLDDPELRQGKIDYSNWPTIPQVYLNGEFVG  
GCDILLQMHQNGDLVEELKKLGIHSALLDEKKDQDSK

>sp|Q96FL9|GLT14\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 14 OS=Homo sapiens  
GN=GALNT14 PE=1 SV=1

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPTGPEVQTPKPSDADWDDLWDQFDERR  
YLNAAKWRVGDDPYKLYAFNQRESERISSNRAIPDTRHLRCTLLVYCTDLPPTSIIITFH  
NEARSTLLRTIRSVLNRTPTHLIREIILVDDFSNDPDDCKQLIKLPVKCLRNNERQGLV  
RSRIRGADIAQGTTLTFLDSHCEVNRDWLQPLLHRVKEDYTRVVCVIDIINLDTFTYIE  
SASELRGGFDWSLHFQWEQLSPEQKARLDPTERTPIIAGGLFVIDKAWFDYLGKYDM  
DMDIWGGENFEISFRVWMCGLSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKNTKRTAE  
VWMDEYKQYYYAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQ  
KGNIRQRQKCLEQRQNNQETPNLKLSPCAVKGEDAKSQVWAFTYTQQILQEELCLSVI  
TLFPGAPVVLVLCKNGDDRQQWTKTGSHEHIAHSLCLDTDMFGDGTENGKEIVVNPCE  
SLMSQHWDMVSS

>sp|Q6P9A2|GLT18\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 18 OS=Homo sapiens  
GN=GALNT18 PE=2 SV=2

MVCTRKTTLVSTCVILSGMTNIIICLLYVGWVTNYIASVYVRGQEPADKKLEEDKGD  
TLKIIERLDHLENIKQHIQEAPAKPEEAEPFTDSSLFAHWGQELSPEGRRVALKQFQYY  
GYNAYLSDRLPLDRPLDLRPSGCRNLSFPDSLPEVSIVFIFVNEALSVLLRSIHSAMER  
TPPHLLKEIILVDDNSSNEELKEKLT EYVDKVNSQKPGFIKVVRHRSKQEGLI  
RSRVSGWR AATAPVVALFDAHVEFNVGWAEPVLTRIKENRKRIISPSFDNIKYDNFEIEEYPLAAQGF  
DWELWCRYLNPPKAWWKLENSTAPIRSPALIGCFIVDRQYFQEIGLLDEGMEVYGGENVE  
LGIRVWQCGGSVEVLPCSRIAHIERAHKPYTEDLTAHVRRNALRVAEVMDEFKSHVYMA  
WNIPQEDSGIDIGDITARKALRKQLCKTFRWYLVSVYPEMRMYSDIIAYGVLQNSLKT  
DLCLDQGPDTENVPIMYICHGMTPNQVYYTSSQQIHVGILSPTVDDDDNRCLVDVNSRPRL  
IECSYAKAKRMKLHWQFSQGGPIQNRKSKRCLELQENSDFEGFQLVLQKCSGQHWSITN  
VLRSLAS

>sp|A6NH11|GLTD2\_HUMAN Glycolipid transfer protein domain-containing protein 2 OS=Homo sapiens  
GN=GLTPD2 PE=1 SV=2

MGVAARPPALRHWFHSHSIPLAIFALLLLYLSVRSLGARS GCGPRAQPCVPGETAPFQVRQ  
ESGTLEAPERKQPPCLGPRGMLGRMMRRFHASLKPEGDVGLSPYLAGWRALVEFLTPLGS  
VFATATREAFKVTDL EARVHGPD AEHYWSLVAMA AWERRAGLLEQPGAAPRDPTRSSGS  
RTLLLLHRALRWSQLCLHRVATGALGGPDAGVQCSDAYRAALGPHHPWLVRQTARLAFLA  
FPGRRRLLELACPGATEAEARAALVRAAGTLEDVYNRTQSLLAERGLLQLA

>sp|P11488|GNAT1\_HUMAN Guanine nucleotide-binding protein G(t) subunit alpha-1 OS=Homo sapiens  
GN=GNAT1 PE=1 SV=5

MGAGASAEKHSRELEKKLKEDA EKDARTVKLLLLGAGESGKSTIVQMKI IHQDGYSLE  
ECLEFIAIIYGNTLQSILAIVRAMTTLNIQYGDSARQDDARKLMHMADTIEEGTMPKEMS  
DIIQRLWKDSGIQACFERASEYQLNDSAGYYLSDLERLVT PGYVPTEQDVLRSRVKTTGI

IETQFSFKDLNFRMFDVGGQRSEKRWIHCFEVGTCTIIFIAALSAYDMVLVEDDEVNRMH  
ESLHLFNSICNHRYFATTISIVLFLNKKDVFVEKIKKAHLSICFPDYDGPNTYEDAGNYIK  
VQFLELNMRRDVKEIYSHMTCATDTQNVKFVFDVTDIIKENLKDCGLF

>sp|Q7Z5G4|GOGA7\_HUMAN Golgin subfamily A member 7 OS=Homo sapiens GN=GOLGA7 PE=1 SV=2  
MRPQQAPVSGKVFQIRDYSSGTRCQFQTKFPAELENRIDRQQFEETVRTLNLYAEAEKL  
GGQSYLEGCLACTAYTIFLCMETHYEKVLKKVSKYIQEQNEKIYAPQGILLTDPIERGL  
RVIEITIIYEDRGMSSGR

>sp|P01148|GON1\_HUMAN Progonadoliberein-1 OS=Homo sapiens GN=GNRH1 PE=1 SV=1  
MKPIQKLLAGLILLTWCVEGCSSQHSYGLRPGGKRDAENLIDSFQEIYKEVGQLAETQR  
FECTTHQPRSPRLDLKGALESLEEETGQKKI

>sp|Q9H8Y8|GORS2\_HUMAN Golgi reassembly-stacking protein 2 OS=Homo sapiens GN=GORASP2  
PE=1 SV=3

MGSSQSVEIPGGGTEGYHVLVQENSPGHRAGLEPFFDFIVSINGSRLNKDNDTLKDLLK  
ANVEKPVKMLIYSSKTLELRETSVTPSNLWGGQGLLGVSIRFCSFDGANENVWHVLEVES  
NSPAALAGLRPHSDYIIGADTMNESEDLSLIETHEAKPLKLYVYNTDNDNCREVIITP  
NSAWGEGSLGCGIGYGYLHRIPTRPFEEGKKISLPGQMAGTPITPLKDGFTVQLSSVN  
PPSLSPPGTTGIEQSLTGLSISSTPPAVSSVLSTGVPTVPLLPPQVNSLTSPVPMNPAT  
TLPGLMPLPAGLPNLNLNLPAPHIMPGVGLPELVNPGLPPLSPMPRNLPGLIAPLPL  
PSEFLPSFPLVPESSSAASSGELLSSLPPTSNAPSDPATTAKADAASSLTVDVTPPTAK  
APTTVEDRVGDSTPVSEKPVSAADVANASESP

>sp|Q6ZVE7|GOT1A\_HUMAN Vesicle transport protein GOT1A OS=Homo sapiens GN=GOLT1A PE=2  
SV=1

MISITWQKIGVGITGFGIFFILFGTLLYFDSVLLAFGNLLFLTGLSLIIGLRKTFWFFF  
QRHKLKGTSLGGVVIVLLRWPLLGMFLETYGFSLFKGFFPVAFGFLGNVCNIPFLGA  
LFRRLQGTSSMV

>sp|Q6NV75|GP153\_HUMAN Probable G-protein coupled receptor 153 OS=Homo sapiens GN=GPR153  
PE=2 SV=2

MSDERRLPGSAVGWLVCGLSLLANAWGILSVGAKQKKWKPLEFLLCTLAATHMLNVAVP  
IATYSVVQLRRQRPDFEWNEGLCKVFVSTFYTLTLATCFSVTSLSYHRMWMVCWPVNYRL  
SNAKKQAVHTVMGIWMVSFILSALPAVGWHDTSERFYTHGCRFIVAEIGLGFVCFLLLV  
GGSVAMGVICTAIALFQTLAVQVGRQADRRRAFTVPTIVVEDAQGKRRSSIDGSEPAKTSL  
QTTGLVTTIVFIYDCLMGFPVLVVSFSSLRADASAPWMALCVLWCSVAQALLLPVFLWAC  
DRYRADLKAVREKCMALMANDEESDDETSLEGGISPDLVLESLDYGYGGDFVALDRMAK  
YEISALEGGLPQLYPLRPLQEDKMQLQVPPTRRFSHDDADVWAAVPLPAFLPRWGSSED  
LAALAHVLVPAGPERRRASLLAFAEDAPPSRARRRSAESLLSLRPSALDSGPRGARDSPP  
GSPRRRPGPGPRASASLLPDAFALTAFECEPQALRRPPGPFPAAPAAPDGADPGEAFTP  
PSSAQRSPGPRPSAHSHAGSLRPGLSASWGEPGGLRAAGGGGSTSSFLSSPSESSGYATL  
HSDSLGSAS

>sp|Q5UAW9|GP157\_HUMAN Probable G-protein coupled receptor 157 OS=Homo sapiens GN=GPR157  
PE=2 SV=2

MQSPPPPTELVPSERAVVLLSCALSALGSGLLVATHALWPDLSRARRLLLLFLSLADLLS  
AASYFYGVQLQNFAGPSWDCVLQGALSTFANTSSFFWTVAIALYLYLSIVRAARGPRTDRL  
LWAFHVSVGWVPLVITVAVALKKIGYDASDVSVGWCWIDLEAKDHVLWMLLTGKLWEML  
AYVLLPLLYLLVRKHINRAHTALSEYRPILSQEHRLLRHSSMADKKLVLIPLIFIGLRVW



STVRFVLTLCGSPAVQTPVLVVLHGIGNTFQGGANCIMFVLCTRAVRTRLFSLCCCCSS  
QPPTKSPAGTPKAPAPSKPGESQESQGTPGELPST

>sp|Q99795|GPA33\_HUMAN Cell surface A33 antigen OS=Homo sapiens GN=GPA33 PE=1 SV=1

MVGKMWPVLWTLCAVRVTVDAISVETPDVLRASQGKSVTLPCYHTSTSSREGLIQWDK  
LLLTHTERVVIWPFSSKNYIHGELYKNRVSISNNAEQSDASITIDQLTMADNGTYECSVS  
LMSDLEGNTKSRVRLVLVPPSKPEGIEGETIIGNNIQLTCQSKEGSPTPQYSWKRYNI  
LNQEQPLAQPASGQPVSLKNISTDTSGYIICTSSNEEGTQFCNITVAVRSPSMNVALYVG  
IAVGVAALIIIGIIYCCCCRGKDDNTEDKEDARPNREAYEEPPEQLRELSREREEDD  
YRQEEQRSTGRES PDHLDQ

>sp|O43292|GPAA1\_HUMAN Glycosylphosphatidylinositol anchor attachment 1 protein OS=Homo sapiens GN=GPAA1 PE=1 SV=3

MGLLSDPVRRLARLVLRLNAPLCVLSYVAGIAWFLALVFPPLTQRTYMSNAMGSTMV  
EEQFAGGDRARAFARDFAAHRKKS GALPVAWLERTMRVSGLEVYTQSF SRKLFPDET  
THE RYMVSGTNVYGILRAPRAASTESLVLTVPCGSDSTNSQAVGLLLALAAHFRGQIYWKDI  
VFLVTEHDL LGTEAWLEAYHDVNVTGMQSSPLQGRAGAIQAAVALELSSDVVTS LDVA  
VE GLNGQLPNLDLLNFQTFCKGGLLCTLQGKLQPEDWTS LDGPLQGLQTLLLMVLRQASG  
RPHGSHGLFLRYRVEALTLRGINSFRQYKYDLVAVGKALEGMFRKLNHLLERLHQSF  
FLY LLPGLSRFVSI GLYMPAVGFLLVLGLKALELWMQLHEAGMGLEEPGGAPGPSVPLPPS  
Q GVGLASLVAPLLISQAMGLALYVLPVLGQHVATQHFPVAEAEAVVLTLLAIYAAGLALPH  
NTHRVVSTQAPDRGWMALKLVALIYLALQLGCIALTNFSLGFLATTMVPTAALAKPHGP  
RTLYAALLVLTSPAATLLGSLFLWRELQEAPLSLAEGWQLFLAALAQGVLEHHTYGALLF  
PLLSLGLYPCWLLFWNVLFWK

>sp|Q8TDU6|GPBAR\_HUMAN G-protein coupled bile acid receptor 1 OS=Homo sapiens GN=GPBAR1 PE=2 SV=1

MTPNSTGEVPSPIPKGALGLSLALASLIITANLLLALGIAWDRRLRSPPAGCFFLSLLA  
GLLTGLALPTLPLGNQSRRGYWSCLLVYLAPNFSFLLANLLL VHGERYMAVLRPLQP  
PGSIRLALLLTWAGPLL FASLPALGWNHWT PGANCSSQAIFPAPYLYLEVYGLLLPAVGA  
AAFLSVRVLATAHRQLQDICRLERAVCRDEPSALARALTWRQARAQAGAMLLFGLCWGPY  
VATLLSVLAYEQRPLPGPTLLSLLSLGSASAAVPVAMGLGDQRYTAPWRAAAQRCLQ  
GLWGRASRDSPGPSIAYHPSSQSSVDLDLN

>sp|Q9NZH0|GPC5B\_HUMAN G-protein coupled receptor family C group 5 member B OS=Homo sapiens GN=GPC5B PE=2 SV=2

MFVASERKMRAHQVLTFLLLFVITSVASENASTSRGGLDLLPQYVSLCDLDAIWGIVVE  
AVAGAGALITLLMLILLVRLPFIKEKEKSPVGLHFLFLLGTLGLFGLTFAFIIQEDET  
ICSVRRFLWGVL FALCFSCLLSQAWVRRLVRHGTGPAGWQLVGLALCLMLVQVIIAVEW  
LVLTVLRDTRPACAYEPMDFVMALIYDMVLLVVTGLGLAFTLCGKFKRWKLNGAFLITA  
FLSVLIWVAWMTMYLFGNVKLQQGDANDPTLAITLAASGWVVFIFHAIPEIHCTLLPAL  
QENTPNYFDTSQPRMRETA FEEDVQLPRAYMENKAFSMDEHNAALRTAGFPNGSLGKRPS  
GSLGKRPSAPFRSNVYQPTMAVVLNGGTIPTAPPSHTGRHLW

>sp|Q4ZG55|GREB1\_HUMAN Protein GREB1 OS=Homo sapiens GN=GREB1 PE=2 SV=1

MGNSYAGQLKTTRFEEVLHNSIEASLRNNLVPRPIFSQLYLEAEQQLAALEGGSRVDNE  
EEEEEGEGGLETNPPNPFQLHPLPEGCCTTDGFCQAGKDLRLVSI NEPM DVPAGFLLV  
GVKSPSLPDHLLVCAVDKRFLPDDNGHNALLGFSGNCVCGKKGFCYFTEFSNHINLKL  
TQPKKQKHLKYILVRNAQGT LTKGPLICWKGSEFRSRQIPASTCSSSLFPALESTAAFPS

EPVPGTNPSILMGAQQAGPASDHPSLNAAMGPAVFNGKDSPKCQQLAKNNLLALPRPSAL  
GILSNSGPPKKRHKGWSPESPSAPDGGCPQGGGNRAKYESAGMSCVPQVGLVGPASVTFP  
VVASGEVSVDPNLLKICKAKPVIFKGHGNFPYLCGNLNDVVVSPLLYTCYQNSQSVSRA  
YEQYGASAIQPISEEMQLLLTVYYLVQLAADQVPLMEDLEQIFLSRWRESHLTEIRQYQQ  
APPQPFPPAPSAAAPVTSACLPLWLASLAASSCNDVHVEICAYSLAEGLESEMFRLLVEGK  
LAKTNYVVIICACRSAIDSCIAVTGKYQARILSESLTPAEYQKEVNYELVTGKVDLSG  
AFFSTLCPEGDIDILLDKFHQENQGHISSSLAASSVTKAASLDVSGTPVCTSYNLEPHSI  
RPFQLAVAQKLLSHVCSIASSQTNDLGSFEKVDFLICIPPSEVTYQQTLLHVHWSGVL  
LELGLKKEHMTKQRVEQYVVKLDTEAQTFFKAFLQNSFQNPHTLFVLIDHHAHWDLVSST  
VHNLYSQSDPSVGLVDRLLNCREVKEAPNIVTLHVTSFPYALQTQHTLISPYNEIHPAS  
CSNGVDLYHENKKYFGLSEFIESTLSGHSLPLLRYDSSFEAMVTALGKRFPRLHSAVIRT  
FVLVQHYAAALMAVSGLPQMKNYTSVETLEITQNLNSPKQCPCGHGLMVLLRVPCSPLA  
VVAYERLAHVRLALEEHFEIILGSPSSGVTVGKHFVKQLRMWQKIEDVEWRPQTYLEL  
EGLPCILIFSGMDPHGESLPRSLRYCDLRLINSSCLVRTALEQELGLAAYFVSNEVPLEK  
GARNEALESDAEKLSSDNEDEELGTEGSTSEKRSPMKRERSRSHDSASSLSKASGSA  
LGGESSAQPTALPQGEHARSPQPRGPAEEGRAPGEKQRPRASQGPSSAISRHSPGPTQP  
DCSLRTGGRSVQVSVTSSCSQLSSSSGSSSSSVAPAAGTWVLQASQCSLTKACRQPPIVF  
LPKLVYDMVVSTDSSGLPKAASLLPSPSVMWASSFRPLLTKMTSTEQSLYYRQWTVPRP  
SHMDYGNRAEGRVDGFHPRRLLSGPPQIGKTGAYLQFLSVLSRMLVRLTEVDVYDEEEI  
NINLREESDWHYLQSDPWPDELFLFKLPFDYI IHDPKYEDASLICHYQGKIKSEDRGMS  
RKPEDLYVRRQTARMRLSKYAAINTYHHCEQCHQYMGFHPRYQLYESTLHAFASYMLG  
EEIQLHFIIPKSKEHHFVFSQPGGQLESMLPLVTDKSHEYIKSPTFTPTTGRHEHGLFN  
LYHAMDGASHLHVLVKEYEMAIYKKYWPNIHMLVLPISFNSAGVGAHFLIKELSYHNL  
ELERNRQEELGIKPQDIWPFIVISDDSCVMWNVDVNSAGERSREFSWSERNVSLKHIMQ  
HIEAAPDIMHYALLGLRKWSSKTRASEVQEPFSRCHVHNFIILNVDLTQNVQYNQNRFLC  
DDVDFNLRVHSAGLLCRFNRFVSMKKQIVVGHRSFHITSKVS DNSAAVPAQYICAPD  
SKHTFLAAPAQLLLEKFLQHSHLFFPLSLKNHDHPVLSVDCYLNLSGSQISVCYVSSRPH  
SLNISCSDLLFSGLLLYLDCSFVGASFLKKFHFLKGATLCVICQDRSSLRQTVVRLELED  
EWQFRLRDEFQTANAREDRPLFFLTGRHI

>sp|Q8WTQ7|GRK7\_HUMAN Rhodopsin kinase OS=Homo sapiens GN=GRK7 PE=1 SV=1

MVDMGALDNLIANTAYLQARKPSDCDSKELQRRRRSLALPGLQGCAELRQKLSLNFHSLC  
EQQPIGRRLFRDFLATVPTFRKAATFLEDVQNWELAEEGPTKDSALQGLVATCASAPAG  
NPQPFLSQAVATKCQAATTEEERVAAVTLAKAEAMAFLQEQPFDKDFVTSAFYDKFLQWKL  
FEMQPVSDKYFTEFRVLGKGGFGEVCAVQVKNTGKMYACKKLDKKRLKKKGGEKMALLEK  
EILEKVSSPFIVSLAYAFESKTHLCLVMSLMNGGDLKFHIYNVGTRGLDMSRVIFYSAQI  
ACGMLHLHELGIYRDMKPENVLDDLGNCRLSDLGLAVEMKGGKPITQRAGTNGYMAPE  
ILMEKVSYSYPVDWFAMGCSIYEMVAGRTPFKDYKEKVSKEDLKQRTLQDEVKFQHDNFT  
EEAKDICRLFLAKKPEQRLGSREKSDDPRKHFFKTINFPRLEAGLIEPPFVPDPSSVYA  
KDIAEIDDFSEVRGVEFDDKDKQFFKNFATGAVPIAWQEEI IETGLFEELNDPNRPTGCE  
EGNSSKSGVCLLL

>sp|POCAP2|GRL1A\_HUMAN DNA-directed RNA polymerase II subunit GRINL1A OS=Homo sapiens  
GN=POLR2M PE=1 SV=1

MCSLPRGFEPQAPEDLAQRSLVELREMLKRQERLLRNEKFICKLPDKGKKIFDSFAKLKA  
AIAECEEVRRKSELFNPVSLDCKLRQKAI AEVDVGTDKAQNSDPILDTSSLVPGCSSVDN

IKSSQTSQNQGLGRPTLEGDEETSEVEYTVNKGPASSNRDRVPPSSEASEHHPHRHVSSQ  
AEDTSSSFNLFIDRLQRITIIADQGEQQSEENASTKNLTGLSSGTEKKPHYMEVLEMRAK  
NPVPQLRKFKTNVLPFRQNDSSSHCQKSGSPISSEERRRRDKQHLDDITAARLLPLHHMP  
TQLLSIEESLALQKQKQNYEEMQAKLAAQKLAERLNIKMRSYNPEGESSGRYREVRDED  
DDWSSDEF

>sp|P38646|GRP75\_HUMAN Stress-70 protein, mitochondrial OS=Homo sapiens GN=HSPA9 PE=1  
SV=2

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRRDYASEAIKGAVVGIDL  
GTTNSCVAVMEGKQAKVLENAEGARTTPSVVAFTADGERLVGMPAKRQAVTNPNNTFYAT  
KRLIGRRYDDPEVQKDIKNVPFKIVRASNGDAWVEAHGKLYSPSQIGAFVLMKMKETAEN  
YLGHTAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTAAALAYGLDKSEDKVI  
AVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK  
DNMALQRVREAAEKAKCELSVVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIR  
RTIAPCQKAMQDAEVSKSDIGEVLVGGMTRMPKVQQTVQDLFGRAPSKAVNPDEAVAIG  
AAIQGGVLAGDVTVDLLDVTPLSLGIETLGGVFTKLINRNTTIPTKKSQVFSTAADGQT  
QVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDIDANGIVHVSADKGTG  
REQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK  
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKLFEYKMASERE  
GSGSSGTGEQKEDQKEEKQ

>sp|Q5TC63|GRTP1\_HUMAN Growth hormone-regulated TBC protein 1 OS=Homo sapiens GN=GRTP1  
PE=1 SV=4

MQPAERSRVPRIDPYGFERPEDFDDAAYEKFFSSYLVTLTRRAIKWSRLLQGGGVPRSRT  
VKRYVRKGVPLEHRARVWMVLGSAQAQMDQNPQYHQLQGERNPRLEDAIRTDLNRFTF  
DNVFRKTTDPCQLRTLYNVLLAYGHHNQGVGYCQGMNFIAGYLILITNNEESFWLLDA  
LVGRILPDYYSPAMLGLKTDQEVLGELVRAKLPAVGALMERLGVLWTLVSRWFICLFVD  
ILPVETVLRIWDCLFNEGSKIIFRVALTLIKHQELILEATSVPDIDCKFKQITKGSFVM  
ECHTFMQKIFSEPGSLSMATVAKLRESCRARLLAQG

>sp|Q5JQS6|GSAML\_HUMAN Germinal center-associated signaling and motility-like protein  
OS=Homo sapiens GN=GCSAML PE=2 SV=1

MGNYLRLKLSCLGENQKKPKGNPDEERKRQEMTTFERKLQDQDKKSQEVSSSTSNQENEN  
GSGSEEVCTVINHIPHQSSLSNDDGYENIDSLTRKVRQFRERSETEYALLRTSVSRP  
CSCTHEHDYEVVFP

>sp|Q9P0R6|GSKIP\_HUMAN GSK3-beta interaction protein OS=Homo sapiens GN=GSKIP PE=1 SV=2  
METDCNPMELSSMSGFEEGSELNGFEGTDMKDMRLEAEAVVNDVLFVAVNMVFSKSLRCA  
DDVAYINVETKERNRYCLELTEAGLKVVGYAFDQVDDHLQTPYHETVYSLDRTLSPAYRE  
AFGNALLQRLEALKRDGQS

>sp|Q96A08|H2B1A\_HUMAN Histone H2B type 1-A OS=Homo sapiens GN=HIST1H2BA PE=1 SV=3  
MPEVSSKGATISKKGFKKAVVKTQKKEGKKRKRTRKESYSIYIYKVLKQVHPDTGISSKA  
MSIMNSFVTDIFERIASEASRLAHYSKRSTISSREIQTAVRLLLPGLAKHAVSEGKAV  
TKYTSSK

>sp|P33778|H2B1B\_HUMAN Histone H2B type 1-B OS=Homo sapiens GN=HIST1H2BB PE=1 SV=2  
MPEPSKSAPAPKKGSKAITKAQKKDGKKRKRSRKESYSIYVYKVLKQVHPDTGISSKAM  
GIMNSFVNDIFERIAAGEASRLAHYNKRSTITSREIQTAVRLLLPGLAKHAVSEGKAVT  
KYTSSK

>sp|P58876|H2B1D\_HUMAN Histone H2B type 1-D OS=Homo sapiens GN=HIST1H2BD PE=1 SV=2  
MPEPTKSAPAPKKGSKAVTKAQKKDGKKRKRSRKESYSYVYKVLKQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSSK

>sp|P06899|H2B1J\_HUMAN Histone H2B type 1-J OS=Homo sapiens GN=HIST1H2BJ PE=1 SV=3  
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GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSK

>sp|P57053|H2BFS\_HUMAN Histone H2B type F-S OS=Homo sapiens GN=H2BFS PE=1 SV=2  
MPEPAKSAPAPKKGSKAVTKAQKKDGKKRKRSRKESYSYVYKVLKQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLPHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSK

>sp|Q14520|HABP2\_HUMAN Hyaluronan-binding protein 2 OS=Homo sapiens GN=HABP2 PE=1 SV=1  
MFARMSDLHVLMLLVGKTACGFSLSLLESLDPDWDTPDQYDYSYEDYNQEENTSSLT  
HAENPDWYYTEDQADPCQPNPCEHGGDCLVHGSTFTCSCLAPFSGNKCQKVQNTCKDNPC  
GRGQCLITQSPYYRCVCKHPYTGPPSCSQVVPVCRPNPCQNGATCSRHKRRSKFTCACPD  
QFKGKFCEIGSDDCYVG DGYSYRGKMNRVTNQHACLYWNSHLLQENYNMFMEDAETHGI  
GEHNFCRNPDADEKPWCFIKVTNDKVKWEYCDVSACSAQDVAYPEESPTSTKLPGFDS  
CGKTEIAERKIKRIYGGFKSTAGKHPWQASLQSSLPLTISMPQGHFCGGALIHPCWVLT  
AHCTDIKTRHLKVLVLDQDLKKEEFHEQSFRVEKIFKYSHYNERDEIPHNDIALKLKPV  
DGHCALESKYVKTCLPDGSPSGSECHISGWGTETGKGSRLDQVVKLIANTLCNSR  
QLYDHMIDDSMICAGNLQKPGQDTCQGDSSGPLTCEKDGTYVYVIVSWGLECGKRPVY  
TQVTKFLNWKATIKSESGF

>sp|Q99075|HBEGF\_HUMAN Proheparin-binding EGF-like growth factor OS=Homo sapiens GN=HBEGF  
PE=1 SV=1  
MKLLPSVVLKFLAAVLSALVTGESLERLRRLAAGTSNPDPTVSTDQLPLGGGRDRK  
VRDLQEADLDLLRVTLSKPKALATPNKEEHGKRKKKGKGLGKKRDPCLRKYKDFCIHGE  
CKYVKELRAPSCICHPGYHGERCHGLSLPVENRLTYDHTTILAVVAVLSSVCLLVIVG  
LLMFRYHRRGGYDVENEKVKLGMTNSH

>sp|P08631|HCK\_HUMAN Tyrosine-protein kinase HCK OS=Homo sapiens GN=HCK PE=1 SV=5  
MGRSSCEDPGCPRDEERAPRMGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIK  
PGPNSHNSNTPGIREAGSEDIIVVALDYEAIIHEDLSFQKGDQMVVLEESGEWWKARSL  
ATRKEGYIPSNYVARVDSLETEEWWFFKGISRKDAERQLLAPGNMLGSFMIRDSETTKGSY  
SLSVRDYDPRQGDVTYKHYKIRTLDNNGFYISPRSTFSTLQELVDHYKKGNDGLCQKLSVP  
CMSSKPQKPWEKDAWEIPRESLKLEKKLGAGQFGEVWMATYNKHTKVAVKTMKPGSMSVE  
AFLAEANVMKTLQHDKLVLHAVVTKEPIYIIITEFMAKGSLLDFLKSDEGSKQPLPKLID  
FSAQIAEGMAFIEQRNYIHRDLRAANILVSASLVCKIADFGLARVIEDNEYTAREGAKFP  
IKWTAPEAINFGSFTIKSDVWSFGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRPE  
NCPEELYNIMMRCWKNRPEERPTFEYIQSVLDDFYTATESQYQQQP

>sp|Q9Y3Q4|HCN4\_HUMAN Potassium/sodium hyperpolarization-activated cyclic nucleotide-  
gated channel 4 OS=Homo sapiens GN=HCN4 PE=1 SV=1  
MDKLPPSMRKRLYSPLQQVGAKAWIMDEEEDAE EEGAGGRQDPSRRSIRLRPLPSPPSA  
AAGGTESRSSALGAADSEGPARGAGKSSSTNGDCRRFRGSLASLSRGGSGGTGSGSSHG  
HLHDSAEERRLIAEGDASPGEDRTPPGLAAPERPGASAPPAASPPPPQPPQPASASCE

QPSVDTAIKVEGGAAGDQILPEAEVRLGQAGFMQRQFGAMLQPGVNKFSLRMFGSQKAV  
EREQERVKSAGFWIIHPYSDFRFYWDLTMLLLMVGNLIIIPVGITFFKDENTTPWIVFNV  
VSDTFFLIDLVLNFRGTIVVEDNTEIILDPQRIKMKYLKSWFMVDFISSIPVDYIFLIVE  
TRIDSEVYKTARALRIVRFTKILSLLRLLRSLIRYIHQWEEIFHMTYDLASAVVRIVN  
LIGMMLLLCHWDGCLQFLVPMQLQDFPDDCWVSINNVMNNSWGKQYSYALFKAMSHMLCTG  
YGRQAPVGMSDVWLTMLSMIVGATCYAMFIGHATALIQSLDSSRRQYQEKYQVEQYMSF  
HKLPPDTRQRIHDYYEHRYQGKMFDDEESILGELSEPLREEIINFNCRKLVASMPLFANAD  
PNFVTSMLTKLRFEVFQPGDYIIREGTIGKKMYFIQHGVVSVLTKGNKETKLADGSYFGE  
ICLLTRGRRTASVRADTYCRLYSVDNFNEVLEEYPMRRAFETVALDRLDRIGKNSI  
LLHKVQHDLNSGVFNQENEIIQQIVQHDREMAHCAHRVQAAASATPTPTPVIWTPLIQA  
PLQAAAATTSVAIALTHHPRLPAAIFRPPPGSGLGNLGAGQTPRHLKRLQSLIPSALGSA  
SPASSPSQVDTPTSSSSFHIQQLAGFSAPAGLSPLLSSSSSPPPGACGSPSAPTPSAGVA  
ATTIAGFGHFHKALGGSLSSSDSPLLTPLQPGARSPQAAQPSAPPARGGLGLPEHFLP  
PPSSSRSPSSSPGQLGQPPGELSLGLATGPLSTPETPPRQPEPPSLVAGASGGASPVGFT  
PRGGLSPPGHSPGPRTFPSAPPRASGSHGSLLLPPASSPPPPQVPQRRGTPPLTPGRLT  
QDLKLISASQPALPQDGAQTLRRASPHSSGESMAAFPLFPRAGGSGGSGSSGGLGPPGR  
PYGAIPGQHVTLPKRTSSGSLPPLSLFGARATSSGGPPLTAGPQREPARGPEPVRSKLP  
SNL

>sp|Q969S8|HDA10\_HUMAN Histone deacetylase 10 OS=Homo sapiens GN=HDAC10 PE=1 SV=1

MGTALVYHEDMTATRLWLDDPECEIERPERLTAALDRLRQRGLEQRCLRLSAREASEEEL  
GLVHSPEYVSLVRETQVLGKEELQALSGQFDAIYFHPSTFHCARLAAGAGLQLVDAVLTG  
AVQNGLALVRPPGHHGQRAAANGFCVFNNVAIAAAHAKQKHGLHRILVVDWDVHHGQGIQ  
YLFEDDPVSVLYFSWHRYEHGRFWPFLRESADAVGRGQGLGFTVNLWNQVGMGNADYVA  
AFLHLLPLAFEFDPPELVLSAGFDSAIGDPEGQMATPECF AHLTQLLQVLAGGRVCAV  
LEGGYHLES LAESVCMTVQTLLGDPAPPLSGPMAPCQSALESIQSARAAQAPHWKS LQQQ  
DVTAVPMSPSSHSPEGRPPPLPGGPVCKAAASAPSSLLDQPCLC PAPSVRTAVALTTPD  
ITLVLPDPVIQQEASALREETEAWARPHESLAREEALTALGKLLYLLDGMLDGQVNSGIA  
ATPASAAAATLDVAVRRGLSHGAQRLLCVALGQLDRPPDLAHDGRSLWLNIRGKEAAALS  
MFHVSTPLPVMTGGFLSCILGLVLPLAYGFQPDVLVLALGPGHGLQGPHAALLAAMLRL  
AGGRVLALLEENSTPQLAGILARVLNGEAPP SLGPSSVASPEDVQALMYLRGQLEPQWKM  
LQCHPHLVA

>sp|P51858|HDGF\_HUMAN Hepatoma-derived growth factor OS=Homo sapiens GN=HDGF PE=1 SV=1

MSRSNRQKEYKCGDLVFAKMKGYPHWPARIDEMPEAAVKSTANKYQVFFFGTHETAFLGP  
KDLFPYEESEKEKFGKPNKRKGFSEGLWEIENNP TVKASGYQSSQKKSCVEEPEPEPEAAE  
GDGDKKGNAEGSSDEEGKLVIDEPAKEKNEKGALKRRAGDLEDSPKRPKEAENPEGEEK  
EAATLEVERPLPMEVEKNSTPSEPGSGRPPQEEEEEEEEEEATKEDAEAPGIRDHESL

>sp|Q7Z353|HDX\_HUMAN Highly divergent homeobox OS=Homo sapiens GN=HDX PE=1 SV=1

MNLSVFTVEQQRILQRYYENGMTNQSKNCFQLILQCAQETKLD FSVVRTWVGNKRRKMS  
SKNSESGTATTGTSLSAPDITVRNVN IARPSSQSSWTSANNDVIVTGIYSPASSSSRQ  
GTNKHTDTQITEAHKIPIQKTATKNDTEFQLHIPVQRQVAHCKNASLLLGEKTIILSRQT  
SVLNAGNSVFNHAKKNYGSSVQASEMTVPQKPSVCHRPCKIEPVGIQRSYKPEHTGPAL  
HNLGGQKPTIRDPYCRTQNLEIREVFSLAVSDYPQRILGGNAPQKPSSAEGNCLSIAMET  
GDAEDEYAREEELASMQRAIPSYSRFYESGSSSLRAENQSTTLPGPGRNMPNSQMVNIRDM  
SDNVLYQNRNYHLTPRTSLHTASSTMYSNTNPLRSNFS PHFASSNQLRLSQNQNNYQISG

NLTVPWITGCSRKRALQDRTQFSDRDLATLKKYWDNGMTSLGSVCREKIEAVATELNVDC  
EIVRTWIGNRRRKYRLMGIEVPPPRGGPADFSEQPESGSLALTPGEEAGPEVGEDNDRN  
DEVSICLSEGSSQEPENEVPNDARAHKEEDHHAHTTNDVKIEIIDDEESDMISNSEVEQ  
VNSFLDYKNEEVKFIENELEIQKQKYFKLQTFVRSILAMKADDKEQQALLSDLPPELE  
EMDFNHASLEPDDTSFSVSSLSEKNVSESL

>sp|Q9H583|HEAT1\_HUMAN HEAT repeat-containing protein 1 OS=Homo sapiens GN=HEATR1 PE=1  
SV=3

MTSLAQQQLRLALPQSDASLLSRDEVASLLFDPKEAATIDRDTAFAIGCTGLEELLGIDP  
SFEQFEAPLFSQLAKTLERSVQTKAVNKQLDENISLFLIHLSPYFLLKPAQKCLEWLIHR  
FHIHLNQDSLACVLPYHETRIFVRVIQLLKINNSKHRFWLLPVKQSGVPLAKGTLIT  
HCYKDLGFMDFICSLVTKSVKVFAYEPGSSAQLRVLLAFYASTIVSALVAAEDVSDNIIA  
KLFPYIQKGLKSSLPDYRAATYMIICQISVKVTMENTFVNSLASQIIKTLTKIPSLIKDG  
LSCLIVLLQRQKPESLGKKPFPHLCNVPDLITILHGISETYDVSPLLHYMLPHLVVSIH  
HVTGEETEGMDGQIYKRHLEAILTKISLKNLDHLLASLLFEEYISYSSQEEMDSNKVSL  
LNEQFLPLIRLLESKYPRTLDVVLEEHLKEIADLKKQELFHQFVSLSTSGGKYQFLADSD  
TSLMLSLNHPLAPVRILAMNHLKKIMKTSKEGVDESFIKEAVLARLGDDNIDVLSAISA  
FEIFKEHFSSEVTISNLLNLFQRAELSKNGEWYEVLKIAADILIKEEILSENDQLSNQVV  
VCLLPFMVINDDTESAEMKIAIYLSKSGICSLHPLLRGWEEALENVIKSTKPGKLIGVA  
NQKMIELLADNINLGPSSMLKMVEDLISVGEEESFNLKQKVTFHVILSVLSCSSSLKE  
THFPFAIRVFSLLQKKIKKLESVITAVEIPSEWHIELMLDRGIPVELWAHYVEELNSTQR  
VAVEDSVFLVFSLLKFIYALKAPKSFPKGDIIWNPEQLKEDSRDYLHLLIGLFEMMLNGA  
DAVHFRVLMKLFIKVHLEDVFQLFKFCSVLWTYGSLSNPLNCSVKTVLQTQALYVGCAM  
LSSQKTQCKHQLASISSPVVTSLLINLGSPVKEVRRAAIQCLQALSGVASPFYLIIDHLI  
SKAEEITSDAAYVIQDLATLFEELQREKKLQSHQKLETLKNLLSCVYSCPSYIAKDLMK  
VLQGVNGEMVLSQLLPMAEQLEKIQKEPTAVLKDEAMVLHLLTGKYNEFSVSLNEDPK  
SLDIFIKAVHTTKELYAGMPTIQITALEKITKPFFAAISDEKVQKLLRMLFDLLVNCKN  
SHCAQTVSSVFKGISVNAEQVRIELEPPDKAKPLGTVQKRRQKMQQKKSQDLESVQEVG  
GSYQWRVTILELLQHKKKLRSQILVPTLFNLLSRCLEPLPQEQGNMEYTKQLILSCLL  
NICQKLSPDGGKIPKDILDEEFNVELIVQCIRLSEMPQTHHHALLLGTVAGIFDPKVL  
HNIMSIFTFMGANVMRLDDTYSFQVINKTVMVIPALIQSDSGDSIEVSRNVEEIVVKII  
SVFVDALPHVPEHRRPLILVQLVDTLGAEKFLWILLILLFEQYVTKTVLAAAYGEKDAIL  
EADTEFWFSVCCEFSVQHQIQSLMNILQYLLKLPEEKEETIPKAVSFNKSESQEEMLQVF  
NVETHTSKQLRHFKFLSVSFMSQLSSNNFLKVVESGGPEILKGLEERLLETVLGYISA  
VAQSMERNADKLTVKFWRALLSKAYDLLDKVNALLPTETFIPVIRGLVGNPLPSVRRKAL  
DLLNNKLQQNISWKKTIVTRFLKLPDLLAIVQRKKKEGEEQAINRQTALYTLKLLCKN  
FGAENPDPFVPVLNTAVKLIAPERKEEKNVLGSALLCIAEVTSTLEALAIPLPSLMPSL  
LTTMKNTELVSSEVYLLSALAALQKVVELPHFISPYLEGILSQVIHLEKITSEMGSAS  
QANIRLTSLKKTLATTLAPRVLLPAIKKTYQIEKNWKNHMGPFMSILQEHIGVMKKEEL  
TSHQSQLTAFLEALDFRAQHSENDLEEVGKTENCIDCLVAMVVKLSEVTRPLFFKLF  
DWAKTEDAPKDRLLTFYNLADCIAEKLKGLFTLFAGHLVKPFADTLNQVNISKTEAFFD  
SENDPEKCCLLLQFILNCLYKIFLFDTHFISKERAELMMPLVDQLENRLGGEEKFQER  
VTKHLIPCIAQFSVAMADDSLWKPLNYQILLKTRDSSPKVRFAALITVLALAEKLENYI  
VLLPESIPFLAELMEDECEEVEHQCKTIQQLLETVLGEPLQSYF

>sp|Q76N89|HECW1\_HUMAN E3 ubiquitin-protein ligase HECW1 OS=Homo sapiens GN=HECW1 PE=1 SV=3

MLLHLCSVKNLQYQNRFLGLAAMASPSRNSQSRRRCKEPLRYSYNPDQFHNMDLRGGPHDG  
VTIPRSTSDTLVTSRSTLMVSSSYISIGHSQDLVIHWDIKEEVDAGDWIGMYLIDEV  
LSENFLDYKNRGVNGSHRGQIIWKIDASSYFVEPETKICFKYYHGVSGALRATTPSVTVK  
NSAAPIFKSIGADETVQGGSRRLISFSLSDFQAMGLKKGMMFFNPDPYLKISIQPGKHSI  
FPALPHHGQERRSKIIGNTVNIWQAEQFSFVSLPTDVLEIEVKDKFAKSRPIIKRFLGK  
LSMPVQRLLERHAIGDRVVSYTLGRRLPTDHVSGQLQFRFEITSSIHDPDEEISLSTEPE  
SAQIQDSPMNNLMESGSGEPRSEAPESSESWKPEQLGEGSVDPGPGNQSIELSRPAEEAA  
VITEAGDQGMVSVGPEGAGELLAQVQKDIQAPSAEELAEQLDLGEEASALLLEDGEAPA  
STKEEPLLEEATTQSRAGREEEKEQEEEGDVSTLEQEGGRLQLRASVKRKSRPCSLPVS  
ELETVIASACGDPETPRTHYIRIHTLLHSMPSAQGGSAAEEEDGAAEEESTLKDSSEKDGL  
SEVDTVAADPSALEEDREEPEGATPGTAHPGHSGGHFPSLANGAAQDGDTHPSTGESDS  
SPRQGGDHSCGCDASCCSPSCYSSSCYSTSCYSSSCYSASCYSPSCYNGNRFASHTRFS  
SVDSAKISESTVFSSQDDEEEENSASFESVPDSMQSPELDPESTNGAGPWQDELAAPSGHV  
ERSPEGLESPVAGPSNRREGCEPILHNSQPVSQPSLRPEHHHYPTIDEPLPPNWEARID  
SHGRVIFYVDHVNRTTWRPTAAATPDGMRRSGSIQQMEQLNRRYQNIQRTIATERSEED  
SGSQSCEQAPAGGGGGGSDSEAESSQSSDLRREGSLSPVNSQKITLLQSPAVKFITN  
PEFFTVLHANYSAIRVFTSSTCLKHMILKVRDARNFERYQHNRLVNFINMFADTRLEL  
PRGWEIKTDQGGKSFFVDHNSRATTFIDPRIPLQNGRLPNHLTHRQHLQRLRSYSAGEAS  
EVSNRNGASLLARPGHSLVAAIRSQHESLPLAYNDKIVAFLRQPNIFEMLQERQPSLA  
RNHTLREKIHYIRTEGNHGLEKLSCDADLVILLSLFEIEIMSYPVLQAAFHPGYSFSPRC  
SPCSPQNSPGLQRASARAPSPYRRDFEAKLRNFYRKLEAKGFGQGPQKIKLIIRRDHLL  
EGTFNQVMAYSRELQRNKLYVTFVGEGLDYSGPSREFFFLSQELFNPYYGLFEYSAN  
DTYTVQISPMSAFVENHLEWFRFSGRILGLALIHQYLLDAFFTRPFYKALLRLPCDLSDL  
EYLDEEFHQSLQWMDNNITDILDLTFTVNEEVFGQVTERELKSGGANTQVTEKNKKEYI  
ERMVKWRVERGVVQTEALVRGFYEVVDSRLVSVFDARELELVIAGTAEIDLNDWRNTE  
YRGGYHDGHLVIRWFWAVERFNNEQRLRLQFVTGTSSVPYEGFAALRGSNGLRRFCIE  
KWGKITSLPRAHTCFNRDLPPYPSYMLYEKLLTAVEETSTFGLE

>sp|Q8NG08|HELB\_HUMAN DNA helicase B OS=Homo sapiens GN=HELB PE=1 SV=2

MARSSPYLRQLQGPLLPPRDLVEEDDDYLNDDVEEDESVFIDAEELCSGGVKAGSLPGC  
LRVSCIDENTQETCKVGRFPITGAWWRVKVQVKPVVGSRSYQYVQVGFPSYFLQSDMSP  
PNQKHICALFLKECEVSSDDVNKFLTWWKEVSNYKNLNFENLRETLRTHKETGRKDQKQ  
PTQNGQEELFLDNEMSLPLENTIPFRNVMTALQFPKIMEFLPVLLPRHFKWIIIGSGSKEM  
LKEIEEILGTHPWKLGFSKITYREWKLRCESWIAFCQCESLLQLMTDLEKNALIMYSR  
LKQICREDGHTYVEVNDLTLTNSHMSFHAASESLKFLKDIGVVTYEKS CVFPYDLYHAE  
RAIAFSICDLMKKPPWHLCVDVEKVLASIHITTKPENSSDDALNESKPDEVRLNPVDVVD  
TQDNGDHIWTNGENEINAEISEVQLDQDQVEVPLDRDQVAALEMICSNPVTVISGKGCGC  
KTTIVSRLFKHIEQLEEREVKKACEDFEQDQNAEEWITFTEQSQLEADKAIEVLLTAPT  
GKAAGLLRQKTGLHAYTLCQVNYSFYSWTQTMMTNKPWKFSVRVLVDEGSLVSVGIF  
KSVLNLCEHSLSKLIILGDIRQLPSIEPGNLLKDLFETLKSRCALIELKTNHRAESQL  
IVDNATRISRRQFPKFDALNISDNPTLPISIQDKTFIFVRLPEEDASSQSSKTNHHSCL  
YSAVKTLLQENNLQNAKTSQFIAFRQQDCDLINDCCCKHYTGHLTKDHQSRLVFGIGDKI  
CCTRNYLSDLLPENISGSQQNNDLDASSEDFSGTLPDFAKNKRDFESNVRLCNGEIFFI

TNDVTDVTFGKRRSLTINNAGLEVTVDFKKLMKYCRIKHAWARTIHTFQGSEEQTVVYV  
VGKAGRQHWQHVYTAVTRGRCRVYVIAEESQLRNAIMKNSFPRKTRLKHFLQSKLSSSGA  
PPADFPSPRKSSGSDGGPSTPSASPLPVVTDHAMTNDVTWSEASSPDERTLTFAERWQLS  
SPDGVDTDDDLPKSRASKRTCgvnddespskifmvgespqvssrlqnlrlnnlIPRQLFK  
PTDNQET

>sp|Q9NRZ9|HELLS\_HUMAN Lymphoid-specific helicase OS=Homo sapiens GN=HELLS PE=1 SV=1

MPAERPAGSGGSEAPAMVEQLDTAVITPAMLEEEEQLEAAGLERERKMLEKARMSWDRES  
TEIRYRRLQHLLKSNISYKFLLTkmeqqqleEQKKKEKLERKKESLKVKGKNSIDASE  
EKPVMRKKRGREDESYNISEVMSKEEILSVAKKNKKENEDENSSSTNLCVEDLQKNKDSN  
SIIKDRLSETVRQNTKFFFDpvrkcngqvpvfpqpkhftGGVMRWYQVEGMEWLRMLWEN  
GINGILADEMGLKTVQCIATIALMIQRGVPGPFLVCGPLSTLPNWMAEFKRFTPDIPTM  
LYHGTQEERQKLVRNIYKRKGTQLIHPVVITSFEIAMRDRNALQHcywkyLIvdegHRIK  
NMKCRILIRELKRfNADNKLLLtGTPLQNNLSELWSLLNfLLPDVFDDLKSFESWFDITSL  
SETAEDIIAKEREQNVLHMLHQILTPfLLRRLKSDVALEVPPKREVvVYAPLSKKQEIFY  
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RERAVVEVNIPVESEVNKLQNIIMLLRKCCHPYLIEYPIDPVTQEFKIDEELVTNSGK  
FLILDRMLPELKKRGHKVLLFSQMTSMLDILMDYCHLRDFNfSRLDGSMYSEREKNMHS  
FNTDPEVFIFLVSTRAGGLGINLTAADTVIIYDSDWNPQSDLQAQDRCHRIGQTKPVVYV  
RLVTANTIDQKIVERAAAKRKLEKLIHKNHFkGGQSGLNLSKNFLDPKELMELLKSRDY  
EREIKGSREKVISDKDLELLLDRLSDIDQMNASGPIKEKMGIKILENSEDSSPECLF

>sp|A6NFD8|HELT\_HUMAN Hairy and enhancer of split-related protein HELT OS=Homo sapiens  
GN=HELT PE=2 SV=2

MSDKLKERKRTPVSHKVIKRRRDRIINRCLNELGKTVPMALAKQSSGKLEKAEILEMTVQ  
YLRALHSADFPRGREKAELLAEFANYFHYGYHECMKNLVHYLTtTVERMETKDTKYARILA  
FLQSKARLGAEPAPPLGSLPEPDFSYQLHPAGPEFAGHSPGEAAVFPQGSAGPFPWPP  
GAARSPALPYLPSAPVPLASPAQQHSPFLTPVQGLDRHYLNLIghahpNALNLHTPQHPP  
VL

>sp|Q6WQI6|HEPN1\_HUMAN Putative cancer susceptibility gene HEPN1 protein OS=Homo sapiens  
GN=HEPN1 PE=5 SV=2

MGNWGLGIAPWVDGESELEFRRLGMQGPLeALRRREWNTQRASFSFSFLIALSPHTVDYC  
HSYELFNRRWHGHVLATQRPSLFILMLV

>sp|Q8IVU3|HERC6\_HUMAN Probable E3 ubiquitin-protein ligase HERC6 OS=Homo sapiens  
GN=HERC6 PE=2 SV=2

MYFCWGADSRELQRRRTAGSPGAELLQAASGERHSLLLLTNHRVLSCGDNSRGQLGRRGA  
QRGELPEPIQALETLIVDLVSCGKEHSLAVCHKGRVFAWGAGSEGQLGIGEFKEISFTPK  
KIMTLNDIKIIQVSCGHYHSLALSQVFSWGKNSHGQLGLGKEFPSQASPQRVRSLEG  
IPLAQVAAGGAHSFALSCLGTSFGWGSNSAGQLALSGRNVPVQSNKPLSVGALKNLGVVY  
ISCGDAHTAVLTQDGKVFTFGDNRSGQLGYSPTPEKRGpQLVERIDGLVSQIDCGSYHTL  
AYVHTTGQVVSFGHGpSDTSKPTHPEALTENFDISCLISAEDFVDVQVKHIFAGTYANFV  
TTHQDTSSTRAPGKTLPEISRISQsMAEKWIAVKRRSTEHEMAKSEIRMIFSSPACLTAS  
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VLLLLPECPVMHDSKNWKNLVVPFAKAVCEMSKQSLQVLKKCWAFLQESSLNPLIQMLKA  
AIIISQLLHQTKTEQDHCNVKALLGMMKELHKVNKANCRLPENTFNINELSNLLNFYIDRG  
RQLFRDNHLIPAETPSPVIFSDFPFIFNSLSKIKLLQADSHIKMQMSEKKAYMLMHETIL



QKKDEFPPSPRFILRVRRSRLVKDALRQLSQAEATDFCKVLVVEFINEICPESGGVSSEF  
FHCMFEEMTKPEYGMFMYPEMGSCMWFPAPKPKPEKKRYFLFGMLCGLSLFNLNVANLPFP  
LALYKKLLDQKPSLEDLKELSPLRGKSLQEVLLDAAADDIGDALCIRFSIHWDQNDVDLIP  
NGISIPVDQTNKRDYVSKYIDYIFNVSVKAVYEEFQRGFYRVCEKEILRHFYPEELMTAI  
IGNTDYDWKQFEQNSKYEQGYQKSHPITQLFWKAFHKLTLDEKKKFLFFLTGRDRLHARG  
IQKMEIVFRCPETFSERDHPTSITCHNILSLPKYSTMERMEEALQVAINNNRGFVSPMLT  
QS

>sp|Q96HZ4|HES6\_HUMAN Transcription cofactor HES-6 OS=Homo sapiens GN=HES6 PE=2 SV=1

MAPPAAPGRDRVGREDEDGWETRGDRKARKPLVEKKRRARINESLQELRLLLAGAEVQAK  
LENAEVLLELTVRRVQGVLRGRAREREQLQAEASERFAAGYIQCMEVHTFVSTCQAI DAT  
VAAELNHLLESMPLREGSSFDLLGDALAGPPRAPGRSGWPAGGAPGSPIPSPPGPGDD  
LCSDLEEAPAEALSQAPAEGLVPAALGSLTTAQIARSVWRPW

>sp|Q9NQ87|HEYL\_HUMAN Hairy/enhancer-of-split related with YRPW motif-like protein  
OS=Homo sapiens GN=HEYL PE=1 SV=2

MKRPKPEPSGSDGESDGPIDVGQEGQLSQMARPLSTPSSSQMQRKKHRGII EKRRDRIN  
SSLSELRRLVPTAFEKQGS SKLEKAEVLQMTVDHLKMLHATGGTGFFDARALAVDFRSIG  
FRECLTEVIRYLVGLEGPSSRADPVRI RL LSHLSYAAEMEPSPTPTGPLAFPAPWWSFF  
HSCGPLPALS NQLAILGRVPSPVLPGVSSPAYPIPALRTAPLRRATGIILPARRNVLP SR  
GASSTRRARPLERPATPVVPVAPSSRAARSSHIAPLLQSSSPTPPGPTGSAAYVAVPTPNS  
SSPGPAGRPAGAMLYHSWVSEITEIGAF

>sp|Q30201|HFE\_HUMAN Hereditary hemochromatosis protein OS=Homo sapiens GN=HFE PE=1 SV=1

MGPRARPALLLLMLLQTAVLQGRLLRSHSLHYLFMGASEQDLGLSLFEALGYVDDQLFVF  
YDHESRRVEPRTPWVSSRISSQMWLQLSQSLKGWDHMTVDVFWTIMENHNHSHKESHTLQV  
ILGCEMQEDNSTEGYWKYGYDGDHLEFCPDTLDWRAAEPRAWPTKLEWERHKIRARQNR  
AYLERDCPAQLQLLELGRGVLDQQVPPLVKVTHHTSSVTTLRCRALNYYPQNITMKWL  
KDKQPMDAKEFEPKDVLPNGDGTYYQGWITLAVPPGEEQRYTCQVEHPGLDQPLIWIWEP  
PSGTLVIGVISGIAVFVVFILFIGILFIILRKRQGSRGAMGHYVLAERE

>sp|A2PYH4|HFM1\_HUMAN Probable ATP-dependent DNA helicase HFM1 OS=Homo sapiens GN=HFM1  
PE=1 SV=2

MLKSNDCFLSLENLFFKEKPDEVENHPDNEKSLDWFLPPAPLISEIPDTQELEEEESHKL  
LGQEKRPKMLTSNLKITNEDTNYISLTQKFQFAFSPDKYEQDDL NLEGVGNNDLSHIAGK  
LTYASQKYKNHIGTEIAPEKSPDDTKLVNFAEDKGESTSVFRKRLFKISDNIHGSAYSN  
DNELDSHIGSVKIVQTEMNKGKSRNYSNSKQKFQYSANVFTANNAFSASEIGEGMFKAPS  
FSVAFQPHDIQEVTENGLGSLKAVTEIPAKFRSIFKEFPYFNYIQSKAFDDLLYTDRNFV  
ICAPTGS GKT VVFELAITRLLMEVPLPWLNIKIVYMAPIKALCSQRFDWKEKFGPIGLN  
CKELTGDTVMDLFEIQHAHIIMTTPEKWDSMTRKWRDNLVQLVRLFLIDEVHIVKDEN  
RGPTLEV VVS RMKTVQSVSQT LKNTSTAIPMR FVAVSATIPNAEDIAEWLSDGERPAVCL  
KMDESHRPVKLQKVVLGFPCCSNQTEFKFDLT LNYKIASVIQMYSDQKPTLVFCATRKGV  
QQAASVLVKDAKFIMTVEQKQRLQKYAYSVRDSKLRDILKGAAYHHAGMELSDRKVVEG  
AFTVGDL PVLFTTSTLAMGVNLP AHLVVIKSTMHYAGGLFEEYSETDILQMIGRAGRPF  
DTTATAVIMTRLSTRDKYIQLACRDTVESSLHRHLIEHLNAEIVLHTITDVNIAVEWIR  
STLLYIRALKNP SHYGFASGLNKDGEAKLQELCLKNLNDLSSDLIKMDEGVNFKPT EA  
GRLMAWYYITFETVKKFYTISGKETLSDLVTLIAGCKEFLDIQLRINEKKT LNTLNKDPN  
RITIRFPMEGRIKTREMKVNCLIQ AQLGCIPIQDFALTQDTAKIFRHGSRITRWLSDFVA

AQEKKFAVLLNSLILAKCFRCKLWENSLHVSQLEKIGITLSNAIVNAGLTSFKKIEETD  
ARELELILNRHPPFGTQIKETVMYLPKYELKVEQITRYSDTTAEILVTVILRNFEQLQTK  
RTASDSHYVTLLIIGDADNQVYLHKITDSVLLKAGSWAKKIHAVKRALKSEDLSINLISSE  
FVGLDIQQKLTVFYLEPKRFGNQITMQRKSETQISHSKHSDISTIAGPNKGTTASKKPGN  
REC NHLCKSKHTCGHDCKIGVAQKSEIKESTISSYLSDLNRNAVSSVPPVKRLKIQMN  
KSQSVDLKEFGFTPKPSLPSISRSEYLNISELPIMEQWDQPEIYGKVRQEPSEYQDKEVL  
NVNFELGNEVWDDFDENLEVTSFSTDTEKTKISGFGNTLSSSTRGSKLPLQESKSKFQR  
EMSNSFVSSHMSDISLSNSAMPKFSASSMTKLPPQAGNAVIVHFQERKPQNLSPEIEKQ  
CFTFSEKNPNSSNYKKVDF FIRNSECKKEVDFSMYHPDDEADEMKSLLGIFDGIF

>sp|P19086|GNAZ\_HUMAN Guanine nucleotide-binding protein G(z) subunit alpha OS=Homo sapiens GN=GNAZ PE=2 SV=3

MGCRQSSEEKEAARRSRRIDRHLRSESQRQRREIKLLLLGTSNSGKSTIVKQMKIIHSGG  
FNLEACKKEYKPLIIYNAIDSLTRIIRALAALRIDFHNPDRAYDAVQLFALTGPAESKGEI  
TPELLGVMRRLWADPGAQACFSRSSEYHLEDNAAYYLNLERIAAADYIPTVEDILRSRD  
MTTGIVENKFTFKELTFKMVDVGGQRSEKRWIHC FEGVTAIIFCVELSGYDLKLYEDNQ  
TSRMAESLRLFDSICNNWFINTSLILFLNKKDLLAEKIRRIPLTICFPEYKGQNTYEEA  
AVYIQRQFEDLNRNKETKEIYSHFTCATDTSNIQFVFDVTDVIIQNNLKYIGLC

>sp|Q9BVP2|GNL3\_HUMAN Guanine nucleotide-binding protein-like 3 OS=Homo sapiens GN=GNL3 PE=1 SV=2

MKRPKLKKASKRMTCHKRYKIQQKVREHHRKLRKEAKKRGHKKPRKDPGVPNSAPFKEAL  
LREAELRKQRLEELKQQKLD RQKELEKKRKLETNPDIKPSNVEPMEKEFGLCKTENKAK  
SGKQNSKKLYCQELKKVIEASDVVLEVL DARDPLGCRCPQVEEAI VQSGQKKLVILNKS  
DLVPKENLESWLNLYKKELPTVVFRASTKPKDKGKITKRVKAKKNAAPFRSEVCFGKEGL  
WKLLGGFQETCSKAIRVGVIGFPNVGKSSIINSLKQEQMCNVGVS MGLTRSMQVVPLDKQ  
ITIIDSPSFIVSPLNSSALALRSPASIEVVKPMEAASAILSQADARQVVLKYTVPGYRN  
SLEFFT VLAQRRGMHQGGIPNVEGA AKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIV  
VDMKSGFNLEELEKNAQSIRA IKGPHLANSILFQSSGLTNGIIEEKDIHEELPKRKERK  
QEEREDDKDSDQETVDEEVDENSSGMFAAEETGEAL SEETTAGEQSTRSFILDKIIEEDD  
AYDFSTDYV

>sp|P22749|GNLY\_HUMAN Granulysin OS=Homo sapiens GN=GNLY PE=1 SV=3

MATWALLLLAAMLLGNPGLVFSRLSPEYYDLARAHLRDEEKSCPLAQEGPQGDLLTKTQ  
ELGRDYRTCLTIVQKLKKMVDKPTQRSVSNAATRV CRTGRSRWRDVCRNFMRRYQSRVTQ  
GLVAGETAQQICEDLRLCIPSTGPL

>sp|Q0D2H9|GOG8D\_HUMAN Putative golgin subfamily A member 8D OS=Homo sapiens GN=GOLGA8DP PE=5 SV=1

MEWKLEQSMREQALLKAQLTQLKESLKEVQLERDEYAEHLKGERARWQQRMKMSQEVCS  
LKKEKKHDKYRVEKLESLSKLNQMAEPLPPEPPAVPSEVELQHLRKELERVAGALQAAQ  
VEYNQRISLLNEGQKERLREQEERLQEQERLPEQEERLQQLAEPQNSFKELNNENKSVL  
QLEQQVKELQEKLGKERLEAASQQKQQLTAQLSLMALPGEHGHDSEGEAAPRPMP  
VPEDLESREAMSGFMDHLEEKADLSELVEKEELGFFQYYRERCHQKVYHIPITKPGGSAKD  
AAPGGGHHQAGPGQGGEDEGAAGAAGDVAAGGDYKGHSKFLVTAQNPAHEPSGAPAPQ  
ELGAAHKHGDLCVSLTDSVEPVQGEAREGSPHDNPTAQPIVQDHQEHPLGNSCCVPFF  
CWAWLPRRRR

>sp|A6NMD2|GOG8J\_HUMAN Golgin subfamily A member 8J OS=Homo sapiens GN=GOLGA8J PE=3 SV=3

MAETQHNLAAAKKLKEYWQKNSPRVPAGANRNRKTNGSIPEKATSGGCQPPRDSATG  
FHREGPTSSATLKDLESPCQERAVVLDSRSVEISQLKNTIKSLKQQKKQVEHQLEEEKKA  
NNKKQKAKRVLEVQIQTLNIQKEELNTDLYHMKRSLRYFEEKSKDLAVRLQHSLQRKGEL  
ESVLSNMATQKKKANQLSSRSKARTEWKLEQSMREEALLKVQLTQFKESFQQVQLERDE  
YSEHLKGERARWQQMRKMSQEICTLKKEKQQDMRRVEKLESLSKLKNQMAEPLPPEPP  
AVPSEVELQHLRKELEERVAGELQAQVKNNQRISLLNQRQEERIREQEERLRKQEERIIEQ  
HKSLLQLAKPQSVFKEPNENKNALQLEQQVKELQEKLGEHLEAASQQNQQLTAQLSLM  
ALPGEHGGGEHLDEGEEAPRPMPSVPEDPESREAMSSFMDHLEEKADLSELVKKKELCF  
IHHWRERCHQKTHHLLSEPGGRAKDAALGGGHHQAGAGGGDEGEAAGAAADGIAAYSNN  
NGHRKFLAAAHNSADEPGPGAPAPQELGAADKHGHLCEVSLTSSAQGEAREDPLLDKPTA  
QPIVQDHQEHPLGSGNCCVPFLCWAWLPRRRR

>sp|Q2TAP0|GOG7B\_HUMAN Golgin subfamily A member 7B OS=Homo sapiens GN=GOLGA7B PE=2 SV=2  
MATEVHNLQELRRSASLATKVFIRQDYSDGTICQFQTKFPPELDSRIERQLFEETVKTNL  
GFYAEAEKIGSSYLEGLACATAYFIFLCMETHYEKVLKKISRYIQEQNEKIFAPRGLL  
LTDPPERGMVRVIEISIIYEDRCSSGSSSSGSSGSSGSSGGGGAGAR

>sp|Q08378|GOGA3\_HUMAN Golgin subfamily A member 3 OS=Homo sapiens GN=GOLGA3 PE=1 SV=2  
MDGASAEQDGLQEDRSHSGPSSLPEAPLKPPGPLVPPDQDKVQCAEVNRASLEGESPDG  
PGQGGLCQNGPTPPFPDPPSSLDPTTSPVGPDA SPGVAGFHDNLRSQGTSAEGSVRKEA  
LQSLRLSLPMQETQLCSTDSPLPLEKEEQVRLQARKWLEEQLKQYRVKRQQERSSQPATK  
TRLFSTLDPELMLNPENLPRASTLAMTKEYSFLRTSVPRGPKVGSGLPAHPREKKTSKS  
SKIRSLADYRTEDSNAGNSGGNVPAPDSTKGLKQNRSSAASVVSEISLSPDTPDDRLNT  
SLAGDSVSEVDGNDSDSSSYSSASTRGTYGILSKTVGTQDTPYMNQGEIPADTLGQFPS  
IKDVLQAAAAEHQDQGQEVNGEVRSRSDICSSVSLESSAAETQEEMQLVLEKMRLEGQ  
LEALSLEASQALKEKAELQAQLAALSTKLQAQVECSHSSQQRQDLSSEVDTLKQSCWDL  
ERAMTDLQNMLEAKNASLASSNNDLQVAEEQYQRLMAKVEDMQRSMLSKDNTVHDLRQQM  
TALQSLLQVQLERTTLTSLKLKASQAEISSLSQSVRQWYQQQLALAEARVRLQGEMAHIQ  
VGQMTQAGLLEHLKLENVSLSQQLTETQHRSMKEKGRIAAQLGGIADMLDQEA AFMIQ  
EAKTMEVEDLQRRLEEFEGERERLQRMADSAAASLEQQLEQVKLTLLQRDQQLAALQQHL  
DLMKQLTLTQEALQSREQLDALQTHYDELQARLGELQGEAASREDTICLLQNEKIILEA  
ALQAAKSGKEELDRGARRLEEGTEETSETLEKLREELAIKSGQVEHLQQETAALKKQMQK  
IKEQFLQKQVMVEAYRRDATSKDQLISELKATRKRDLSELKELRQELMQVHGEKRTAEAE  
LSRLHREVAQVRQHMADLEGLQSAQKERDEMETHLQSLQFDKEQMVAVTEANEALKKQI  
EELQQEARKAITEQKQKMRRLGSDLTSAQKEMKTKHKAYENAVGILSRRLQEALAAKEAA  
DAELGQLRAQGGSSDSSLALHERIQALEAELQAVSHSKTLEKELQEVIALTSQELEESR  
EKVLELEDELQESRGFRKKIKRLEESNKKLALALEHEKGKLTGLGQSNAALREHNSILET  
ALAKREADLVQLNLQVQAVLQRKEEEDRQMKHLVQALQASLEKEKEKVNLSKEQVAAAKV  
EAGHNRRHFKAASLELSEVKELQAKEHLVQKLQAEADDLQIREGKHSQEIAQFQAEALAE  
ARAQLQLLQKQLDEQLSKQPVGNQEMENLKWEVDQKEREIQSLKQQLDLTEQQGRKELEG  
LQQLLQNVKSELEMAQEDLSMTQKDKFMLQAKVSELKNNMKTLLQQNQQLKLDLRRGAAK  
TRKEPKGEASSNPATPIKIPDCVPASLLEELLRPPPAVSKEPLKNLNSCLQQLKQEMD  
SLQRQMEEHALTVHESLSSWTPLEPATASVPPPGGHAGPRGDPQRHSQSRASKEGPGE

>sp|Q8NBJ4|GOLM1\_HUMAN Golgi membrane protein 1 OS=Homo sapiens GN=GOLM1 PE=1 SV=1  
MMGLNGRRSMKSPPLVLAALVACIIVLGFNYWIASSRSVDLQTRIMELEGRVRRAAAER  
GAVELKKNEFQGELEKQREQLDKIQSSHNFQLESVNKLYQDEKAVLVNITTGERLIRVL

QDQLKTLQRNYGRLQQDVLQFQKNQTNLERKFSYDLSQCINQMKEVKEQCEERIEEVTKK  
GNEAVASRDLSNNDRQQQLQALSEPQPRLQAAGLPHTVEVPQGKGNVLGNSKSQTPAPSS  
EVLDSKRQVEKEETNEIQVVNEEPQRDRLPQEPGREQVVEDRPVGGRGFGGAGELGQTP  
QVQAALSVSQENPEMEGPERDQLVIPDGQEEEQEAAGEGRNQKQLRGEDDYNMDENEAES  
ETDKQAALAGNDRNIDVFNVEDQKRDTINLLDQREKRNHTL

>sp|Q5T7V8|GORAB\_HUMAN RAB6-interacting golgin OS=Homo sapiens GN=GORAB PE=1 SV=1

MSWAAVLAVAAARFGHFWGCRWPGPMAQGWAGFSEEELRRLKQTKDPFEPQRRLPAAKSR  
QQQLREKALVEQSQKLGLQDGSTSLPEQLLSAPKQRVNVQKPPFSSPTLPSHFTLTSPV  
GDGQPQGIESQPKELGLENSHDGHNNVEILPPKPDCKLEKKKVELQEKSWEVLQQEQRL  
MEEKNKRKKALLAKAIAERSKRTQAETMKLKRIQKELQALDDMVSADIGILNRIDQASL  
DYSYARKRFRDRAEAEYIAAKLDIQRKTEIKEQLTEHLCTIIQQNELRKAKKLEELMQQLD  
VEADEETLELEVEVERLLHEQEVESSRRPVRLERPFQPAEESVTLEFAKENRKCQEQAVS  
PKVDDQCGNSSSIPFLSPNCPNQEGNDISAALAT

>sp|P32249|GP183\_HUMAN G-protein coupled receptor 183 OS=Homo sapiens GN=GPR183 PE=1 SV=3

MDIQMANNFTPPSATPQGNDCDLYAHHSTARIVMPLHYSLVFIIGLVGNLLALVVIVQNR  
KKINSTTLYSTNLVISDILFTTALPTRIAYYAMGFDWRIGDALCRITALVFYINTYAGVN  
FMTCLSIDRFIAVVHPLRYNKKIKRIEHAKGVCIFVWILVFAQTLPLLINPMSKQEAERIT  
CMEYPNFEETKSLPWILLGACFIGYVPLIIILICYSQICCKLFRTAKQNPLTEKSGVVK  
KALNTIILIIIVFVLCFTPYHVAIIQHMIKKLRFSNFLECSQRHSFQISLHFTVCLMNFN  
CCMDPFIYFFACKGYKRKVMRMLKRQVSVSISAVKSAPEENSREMTETQMMIHSKSSNG  
K

>sp|P07359|GP1BA\_HUMAN Platelet glycoprotein Ib alpha chain OS=Homo sapiens GN=GP1BA PE=1 SV=2

MPLLLLLLLLLPSPLPHPICEVSKVASHLEVNC DKRNLTALPPDLPKDTTILHLSENLLY  
TFSLATLMPYTRLTQLNLDRCETKLQVDGTLPVLGTLDSLHNQLQSLPLLGGTLPALT  
LDVSFNRLTSLPLGALRGLGELQELYLKGNELKTLPPGLLTPTPKLEKLSLANNLT  
AGLLNGLENLDTLLQENSLYTIKGFFGSHLLPFAFLHGNPWLNCCEILYFRRWLQDNA  
ENVYVWKQGV DVKAMTSNVASVQCDNSDKFPVYKYPGKGCP TLGDEGDTLDYDYYPEEDT  
EGDKVRATRTVVKFPTKAHTTPWGLFYSWSTASLDSQMPSSLHPTQESTKEQTTFPPRWT  
PNFTLHMESITFSKTPKSTTEPTSPPTTSEPVPPEPAPNMTTLEPTSPPTTPEPTSEPAPS  
PTTPEPTSEPAPSTTPEPTSEPAPSTTPEPTPIPTIATSPTILVSATSLITPKSTFLT  
TTKPVSLLESTKKTIPELDQPPKLRGVLQGHLESSRNDPFLHPDFCCLLPLGFYVLGLFW  
LLFASVVLILLWSVGHVKPQALDSGGAALTATQTTHLELQRGRQVTPRAWLLFLRG  
SLPTFRSSLFLWVRPNRGVPLVAGRRPSALSQGRGQDLLSTVSIIRYSGHSL

>sp|Q6NUI2|GPAT2\_HUMAN Glycerol-3-phosphate acyltransferase 2, mitochondrial OS=Homo sapiens GN=GPAT2 PE=2 SV=2

MATMLEGRCTQPRSSPSGREASLWSSGFGMKLEAVTPFLGKYRPFVGRCCQTCTPKSWE  
SLFHRISITDLGFCNVILVKEENTRFRGWLVRRLCYFLWSLEQHIPPQDVPQKIMESTGV  
QNLLSGRVPGGTGEQVQPDLVKKEVQRILGHIQAPPRPFLVRLFSWALLRFLNCLFLNVQ  
LHKGMKMQKAAQAGLPLVLLSTHKTL LDGILLPFMLLSQGLGVLRVAWDSRACSPALR  
ALLRKLGGFLPPEASLSLDSSEGLLARAVVQAVIEQLLVSGQPLLIFLEPPGALGPRL  
SALGQAWVGFVVQAVQVGI VPDALLVPVAVTYDLVPDAPCDIDHASAPLGLWTGALAVLR  
SLWSRWGCSHRICSRVHLAQPFSLQEYIVSARSCWGRQTLEQLLQPIVLGQCTAVPDTE  
KEQEWTPITGPLLALKEEDQLLVRRLSCHVLSASVGSSAVMSTAIMATLLLFKHQKLLGE

FSWLTEEILLRGFDVGFSGQLRSLLQHSLSLRAHVALLRIRQGDLLVVPQPGPGLTHLA  
QLSAELLPVFLSEAVGACAVRGLLAGRVPPQGPWELQGILLLSQNELYRQILLMHLLPQ  
DLLLLKPCQSSYCYCQEVLDRLIQCGLLVAEETPGSRPACDTGRQRLSRKLLWKPSGDFT  
DSDSDDFGEADGRYFRLSQSHCPDFFLFLCRLLSPLLKAFQAQAAFLRQGQLPDTELGY  
TEQLFQFLQATAQEEGIFECADPKLAISAVWTFRDLGVLQQTPSPAGPRLHLSPTFASLD  
NQEKLEQFIRQFICS

>sp|Q86WP2|GPBP1\_HUMAN Vasculin OS=Homo sapiens GN=GPBP1 PE=1 SV=1

MAQHDFAPAWLNFTPPSSSTKSSLNFEKHSENAWTENRYDVNRRRHNSSDGFDSAIGRP  
NGGNFGRKEKNGWRTHGRNGTENINHRGGYHGGSSRSRSSFHAGKSQGLHENNIPDNET  
GRKEDKRERKQFEAEDFPSLNPEYEREPNHKSLAAGVWEYPPNPKSRAPRMLVIKKGNT  
KDLQLSGFPVVGNLPSQPVKNGTGPSVYKGLVPKPAAPTKPTQWKSQTKENKVGTSFPH  
ESTFGVGNFNFAKSTAKNFSPTNSVKECNRSNSSSPVDKLNQQPRLTKLTRMRTDKKSE  
FLKALKRDRVEEHEDESRAGSEKDDDSFNLHNSNSTHQERDINRNFDENEIPQENGNAS  
VISQQIIRSSTFPQTDVLSSSLEAEHRLKEMGWQEDSENDETCAPLTEDEMREFQVISE  
QLQKNGLRKNGILKNGLICDFKFGPWKNSTFKPTTENDDTETSSSDTSDDDDV

>sp|P51654|GPC3\_HUMAN Glypican-3 OS=Homo sapiens GN=GPC3 PE=1 SV=1

MAGTVRTACLVVAMLLSLDFPGQAQPPPPPDATCHQVRSFFQRLQPLKWPETPVPGS  
DLQVCLPKGPTCCSRKMEKYQLTARLNMEQLLQSASMEKFLIIQNAAVFQEAFEIVVR  
HAKNYTNAMFKNNYPSLTPQAFEFVGEFFTDVSLYILGSDINVDDMVNELFDSLFPVIYT  
QLMNPGLPDSALDINECLRGARRDLKVFGNFPKLIIMTQVSKSLQVTRIFLQALNLGIEVI  
NTTDHLKFSKDCGRMLTRMWYCSYCQGLMMVKPCGGYCNVVMQGCMAVVVEIDKYWREYI  
LSLEELVNGMYRIYDMENVLLGLFSTIHDSIQYVQKNAGKLTTTIGKLAHSQQRQYRSA  
YYPEDLFIDKKVLKVAHVEHEETLSSRRRELIQKLKSFISFYALPGYICSHSPVAENDT  
LCWNGQELVERYSQKAARNGMKNQFNLHELKMGPEPVVSQIIDKLKHINQLLRTMSMPK  
GRVLDKNLDEEGFESGDCGDEDECIGGSGDGMKVKQNQLRFLAELAYDLVDVDDAPGNSQ  
QATPKDNEISTFHNLGNVHSPLKLLTSMASVVCFFFLVH

>sp|Q9NQ84|GPC5C\_HUMAN G-protein coupled receptor family C group 5 member C OS=Homo sapiens GN=GPRC5C PE=1 SV=2

MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYNLCDRSGAWGIVLEAVAGAG  
IVTTFVLTIIILVASLPFVQDTKKRSLLGTQVFLLGTLGLFCLVFACVVKPDFSTCASRR  
FLFGVLFAICFSCLAHVAFALNFLARKNHGPRGWVIFTVALLTLVEVIINTEWLIITLV  
RGSGEGGPQGNSAGWAVASPCAIAANMDFVMALIYVMLLLGAFLGAWPALCGRYKRWRK  
HGVFVLLTTATSVAIWVWVIMYTYGNKQHNSPTWDDPTLAIALAANAWAFVLFYVPEV  
SQVTKSSPEQSYQGDMYPTRGVGYETILKEQKGQSMFVENKAFSMDEPVAAKRPVSPYSG  
YNGQLLTSVYQPTMALMHKVPSEGAYDIIIPRATANSQVMGSANSTLRAEDMYSAQSHQ  
AATPPKDGKNSQVFRNPYVWD

>sp|Q96SL4|GPX7\_HUMAN Glutathione peroxidase 7 OS=Homo sapiens GN=GPX7 PE=1 SV=1

MVAATVAAAWLLLWAAACAQEQDFYDFKAVNIRGKLVLEKYRGSVSLVNVASECGFT  
DQHYRALQQLQRDLGPHHFNLAFPCNQFGQEPDSNKEIESFARRTYSVSFPMFSKIAV  
TGTGAHPAFKYLAQTSKGKEPTWNFWKYLVPDQKVVGAWDPTVSVEEVRPQITALVRKLI  
LLKREDL

>sp|Q14449|GRB14\_HUMAN Growth factor receptor-bound protein 14 OS=Homo sapiens GN=GRB14 PE=1 SV=2

MTTSLQDQSAASRAAARDSPLAAQVCGAAQGRGDAHDLAPWHLARALLPLPDGTRGC

AADRRKKKDLDPPEMPSIPNPFPELCCSPFTSVLSADLFPKANSRKKQVIKVYSEDETSR  
ALDVPSDITARDVCQLLILKNHYIDHSWTLFEHLPHIGVERTIEDHELVEVLSNWGIE  
EENKLYFRKNYAKYEFFKNPMYFFPEHMFATETNGEISPTQILQMFLSSSTYPEIHGF  
LHAKEQGKKSWKKIYFFLRRSGLYFSTKGTSTKEPRHLQFFSEFGNSDIYVSLAGKKKHGA  
PTNYGFCFKPNKAGGPRDLKMLCAEEEQSRTCWVTAIRLLKYGMQLYQNYMHPYQGRSGC  
SSQSI SPMRSISENSLVAMDFSGQKSRVIENPTEALSVAVEEGLAWRKKGCLRLGTHGSP  
TASSQSSATNMAIHRSPWFHHKISRDEAQRLLIQQGLVDGVFLVRDSQSNPKTFVLSMS  
HGQKIKHFQIIPVEDDGEMFHTLDDGHTRFTDLIQLVEFYQLNKGVLPCCLKHYCARIAL  
>sp|Q14451|GRB7\_HUMAN Growth factor receptor-bound protein 7 OS=Homo sapiens GN=GRB7 PE=1  
SV=2

MELDLSPPHLSSSPEDLCPAPGTPPGTTPRPPDTPLPEEVKRSQPLLIPTTGRKLREEERR  
ATSLPSIPNPFELCSPPSQSPILGGPSSARGLLPRDASRPHVVKVYSEDGACRSVEVAA  
GATARHVCCEMLVQRAHALSDETWGLVECHPHLALERGEDHESVVEVQAAWPVGGDSRFV  
FRKNFAKYELFKSSPHSLFPEKMVSSCLDAHTGISHEDLIQNFLNAGSFPEIQGFLQLRG  
SGRKLWKRFFCFLRRSGLYSTKGTSKDPRHLQYVADVNESNVYVVTQGRKLYGMPTDFG  
FCVKPNKLRNGHKGLRIFCSEDEQSRTCWLAARLFKYGVQLYKNYQQAQSRHLHPSCLG  
SPPLRSASDNTLVAMDFSGHAGRVENPREALSVALEEAQAWRKKTNHRLSLMPASGTS  
LSAAIHRTQLWFHGRISREESQRLIGQQGLVDGLFLVRESQRNPQGFVLSLCHLQKV KHY  
LILPSEEEGRLYFSMDDGQTRFTDLLQLVEFHQLNRGILPCLLRHCCTRVAL  
>sp|O60565|GREM1\_HUMAN Gremlin-1 OS=Homo sapiens GN=GREM1 PE=1 SV=1

MSRTAYTVGALLLLGTLLPAAEGKKKGSQGAIPPPDKAHDSEQTQSPQQPGSRNRGR  
GQGRGTAMPGEEVLESSQEALHVTERTKYLKRDWCKTQPLKQTIHEEGNSRTIINRFCYG  
QCNSFYIPRHIRKEEGSFQSCSFCKPKKFTTMMVTLCPELQPPTKKKRVTRVKQCRCIS  
IDLD

>sp|P41594|GRM5\_HUMAN Metabotropic glutamate receptor 5 OS=Homo sapiens GN=GRM5 PE=1 SV=2  
MVLLLILSVLLLKEDVRGSAQSSERRVVAHMPGDIIGALFSVHHQPTVDKVERKCGAV  
REQYGIQRVEAMLHTLERINSPTLLPNITLGCEIRDSCWHSVALEQSIEFIRDSLIS  
EEEEGLVRCVDGSSSSFRSKKPIVGVIGPGSSSVAIQVQNLLQLFNIPQIAYSATSMDS  
DKTLFKYFMRVVPDAQQARAMVDIVKRYNWTYVSAVHTEGNYGESGMEAFKDMSAKEGI  
CIAHSYKIYSNAGEQSFDKLLKKLTSHLPKARVVACFCEGMTVRGLLAMRRLGLAGEFL  
LLGSDGWADRYDVTGQYREAVGGTITIKLQSPDVKWFDDYYLKLRPETNHRNPWFQEFWQ  
HRFQCRLEGFPQENSKYKTCNSSLTLKTHHVQDSKMGFVINAIYSMAYGLHNMQMSLCP  
GYAGLCDAMKPIDGRKLLESLMKNFTGVSGDTILFDENGDSPGRYEIMNFKEMGKDYFD  
YINVGSWDNGELKMDDEVWSKKSNIIRSVCSEPCQKQIKVIRKGEVSCCWTCTPCKEN  
EYVFDEYTCKACQLGSWPTDDL TGCDLIPVQYLRWGDPEPIAAVVFACLGLLATLFTTVV  
FIIYRDTVPVKSSSREL CYIILAGICLGYLCTFCLIAKPKQIYCYLQRIGIGLSPAMSYS  
ALVTKTNRIARILAGSKKKICTKKPRFMSACAQLVIAFILICIQLGIIIVLFIMEPPDIM  
HDYPSIREVYLICNTTNLGVTPLGYNGLLILSCTFYAFKTRNVPANFNEAKYIAFTMYT  
TCIIWLAFVPIYFGSNYKIITMCFSVLSATVALGCMFVPKVYIILAKPERNVRSAFTTS  
TVVRMHVGDGKSSSAASRSSSLVNLWKRKGSSGETLRYKDRRLAQHKSEIECFTPKGSMG  
NGGRATMSSSNGKSVTWAQNEKSSRGHLWQRLSIHINKKENPNQTAVIKPFPKSTESRG  
LGAGAGAGGSAGVGATGGAGCAGAGPGGPESPDAGPKALYDVAEEHFAPAPARPRSPS  
PISTLSHRAGSASRTDDDVPSLHSEPVARSSSSQSLMEQISSVVTFTANISELNSMML  
STAAPSPGVGAPLCSSYLIPKEIQLPTTMTTFAEIQLPLAIEVTGGAQPAAGAQAAGDAA

RESPAAGPEAAAAKPDLEELVALTPSPFRDSVDSGSTTPNSPVSESALCIPSSPKYDTL  
IIRDYQTSSSSL

>sp|095267|GRP1\_HUMAN RAS guanyl-releasing protein 1 OS=Homo sapiens GN=RASGRP1 PE=1 SV=2

MGTLGKAREAPRKPSHGCRASKARLEAKPANSPFSPHPSLAHITQFRMMVSLGHLAKGA  
SLDDLIDSCIQSFADAGNLCSNQLLQVMLTMHRIVISSAELLQKVITLYKDALKNSPG  
LCLKICYFVRYWITEFWVMFKMDASLDTMEEFQELVKAKGEELHCRLIDTTQINARDWS  
RKLTQRIKSNTSKKRKVSLLFDHLEPEELSEHLYLEFKSFRRISFSQYQNYLVNSCVKE  
NPTMERSIALCNGISQWVQLMVLRSRPTQLRAEVFIKFIQVAQKLHQLQNFNTLMAVIGG  
LCHSSISRLKETSSHVPHEINKVLGEMTELLSSSRNYDNYRRAYGECTDFKIPILGVHLK  
DLISLYEAMPDYLEDGKVNVLKLLALYNHISELVQLQEVAPPLEANKDLVHLLTSLDLY  
YTEDEIYELSYAREPRNHRAPLTPSKPPVVDWASGVSPKDPKTISKHVQRMVDSVFK  
NYDHDQDGYISQEEFEKIAASFPSFCVMDKDREGLISRDEITAYFMRASSIYSKLGLGF  
PHNFQETTYLKPTFCDCNAGFLWGVIKQGYRCKDCGMNCHKQCKDLVVFECKKRAKNPVA  
PTENNTSVGPVSNLCSLGAKDLLHAPEEGPFTFPNGEAVEHGEESKDRITMLMGVSSQKI  
SLRLKRAVAHKATQTESQPWIGSEGPSGFVLSSPRKTAQDTLYVLPSTSPCPSPLVR  
KRAFKWENKDSLKSKEELRHLRLPTYQELEQEINTLKADNDALKIQLKYAQQKIESLQ  
LEKSNHVLQAQMEQGDSCS

>sp|Q7LDG7|GRP2\_HUMAN RAS guanyl-releasing protein 2 OS=Homo sapiens GN=RASGRP2 PE=1 SV=1

MAGTLDLKDGCTVEELLRGCIEAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIY  
QQSRKDNSNSLQVKTCHLVRYWISAFPAEFDLNPELAEQIKELKALLDQEGNRRHSSLID  
IDSVPTYKWKQRQVTRPNVGGQKKRMSLLFDHLEPMELAEHLYLEYRSFCKILFQDYHS  
FVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQALVITHFVHVAEKLLQLQNF  
NTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFR  
FPILGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDL  
LSLLTVSLDQYQTEDELYQLSLQREPRSKSSPTSPTSCTPPRPPVLEEWSAAKPKLDQ  
ALVVEHIEKMVESVFRNFDVDGDGHSIQEEFQIIRGNFPYLSAFGDLDQNDGDCISREEM  
VSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQGLKCRACGVNCHKQC  
KDRLSVECRRAQSVSLEGSAPSPSPMHSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTV  
EDGVFDIHL

>sp|A4D1B5|GSAP\_HUMAN Gamma-secretase-activating protein OS=Homo sapiens GN=GSAP PE=1  
SV=2

MALRLVADFDLGKDVLPWLRAQRAVSEASGAGSGGADVLENDYESLHVLNVERNNGNIITYT  
YKDDKGNVVFGLYDCQTRQNELLYTFEKDLQVFSCSVNSERTLLAASLVQSTKEGKRNEL  
QPGSKCLTLLVEIHPVNNVKVLKAVDSYIWWQFLYPHIESHPLPENHLLLISEEKYEQF  
RIHVAQEDGNRVVINKSGHLPRDRIAEDFVWAQWDMSEQRLYYIDLKKSRSILKCIQFYA  
DESYNLMFEVPLDISLSNSGFKLVNFGCDYHQYRDKFSKHLTLCVFTNHTGSLCVCYSPK  
CASWGQITYSVFYIHKGHSKTFTTSLENVGSHMTKITFLNLDYYVAVYLPGHFFHLLNV  
QHPDLICHNLFLTGNEMIDMLPHCPQLSLSGSLVLDCCSGKLYRALLSQSLLQLLQNT  
CLDCEKMAALHCALYCGGAQFLEAQIIQWISENVSACHSFDLIQEFIIASSYWSVYSET  
SNMDKLLPHSSVLWNTEIPGITLVTEIDIALPLMKVLSFKGYWEKLSNLEYVVKYAKPHF  
HYNNSVVRREWHNLISEKTGKRRAAYVRNILDNAVKVISNLEARNLGPRLTPLLQEED  
SHQRLLMGLMVSELKDHFLRHLQGVEKKKIEQMVLDYISKLLDLICHIVETNWRKHNLS  
WVLHFNRSRGSAAEFAVFHIMTRILEATNSLFLPLPPGFHTLHTILGVQCLPLHNLLHCID  
SGVLLLTETAVIRLMKDLDNTEKNEKLKFSIIIVRLPPLIGQKICRLWDHPMSSNIIISRNH

VTRLNQNYKKQPRNSMINKSSFSVEFLPLNYFIEILTDIESSNQALYPFEGHDNVDAEFV  
EEAALKHTAMLLGL

>sp|Q9UMX6|GUC1B\_HUMAN Guanylyl cyclase-activating protein 2 OS=Homo sapiens GN=GUC1B  
PE=1 SV=4

MGQEFSWEEAAGEIDVAELQEWYKKFVMECPSTLGMHEFKRFFKVTDDDEASQYVEG  
MFRAFDKNGDNTIDFLEYVAALNLVLRGTLEHKLKWTFKIYDKDGNGCIDRLELLNIVEG  
IYQLKKACRRELQTEQGQLLTPEEVVDRIFFLLVDENGDGQLSLNEFVEGARRDKWVMKML  
QMDMNPSSWLAQQRKSAMF

>sp|Q02747|GUC2A\_HUMAN Guanylin OS=Homo sapiens GN=GUC2A PE=1 SV=2

MNAFLLSALCLLGAWAALAGGVTVQDGNFSFSLESVKKLKDLQEPQEPRVGKLRNFAPIP  
GEPVVPILCSNPNFPEELKPLCKEPNAQEILQRLEEIAEDPGTCEICAYAACTGC

>sp|Q8N442|GUF1\_HUMAN Translation factor GUF1, mitochondrial OS=Homo sapiens GN=GUF1 PE=2  
SV=1

MWTLVGRGWGCARALAPRATGAALLVAPGPRSAPTGLGAAPESWATDRLYSSAEFKEKLDL  
SRFPVENIRNFSIVAHVDHGKSTLADRLLELTGTIDTKNNKQVLDKLQVERERGITVKA  
QTASLFYNCEGKQYLLNLIDTPGHVDFSIEVSRSLACQGVLLVVDANEGIQATVANFF  
LAFEAQLSVIPVINKIDLNADPERVENQIEKVFDPISDECIKISAKLGTNVESVLQAI  
ERIPPPKVHRKNPLRALVFDSTFDQYRGVIANVALFDGVVSKGDKIVSAHTQKTYEVNEV  
GVLNPNEQPTHKLYAGQVGYLIAGMKDVTEAQIGDTLCLHKQPVEPLPGFKSAKPMVFAG  
MYPLDQSEYNLKSIAIEKLTLDSSSVTVHRDSSLALGAGWRLGFLGLLHMEVFNQRLEQE  
YNASVILTTPVPYKAVLSSSKLIKEHREKEITINPAQFPDKSKVTEYLEPVVLGTIIT  
PDEYTGKIMMLCEARRAVQKNMIFIDQNRVMLKYLPLNEIVVDFYDSLKSLSSGYASFD  
YEDAGYQTAELVKMDILLNGTVEELVTVVHKDKAHSIGKAICERLKDSLPRQLFEIAIQ  
AAIGSKIIARETVKAYRKNVLAKCYGGDITRKMKLLKRQAEGKKLRKIGNVEVPKDAFI  
KVLKTQSSK

>sp|P13807|GYS1\_HUMAN Glycogen [starch] synthase, muscle OS=Homo sapiens GN=GYS1 PE=1  
SV=2

MPLNRTLSSMLPGLEDWEDEFLENVLFVAVWANKVGGIYTVLQTKAKVTGDEWGD  
NYFLVGPYTEQGVRTQVELLEAPTALKRTLDSMNSKGCKVYFGRWLEGGPLVLLDVG  
ASAWALERWKGELWDTCNIGVPWYDREANDAVLFGFLTTFWFLGEFLAQSEEKPHVVAHFH  
EWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAVDFYNNLENFNVDKEAGERQIYH  
RYCMERAAAHCAHVFTTVSQITAEQAHLKRPDIVTPNGLNVKKFSAMHEFQNLHAQS  
KARIQEFVRGHFYGHLDNFNDKTYFFIAGRYEFSNKGADVLEALARLNYLLRVNGSEQ  
TVVAFFIMPARTNNFNVELTKGQAVRKQLWDTANTVKEKFGKLYESLLVGSLPDMNKML  
DKEDFTMMKRAIFATQRQSFPVCTHNMLDDSSDPILTTIRRIGLFNSSADRVKVIHFPE  
FLSSTSPLLVDYEEFVRGCHLVFPSSYEPWGYTPAECTVMGIPSISTNLSGFGCFMEE  
HIADPSAYGIYILDRFRSLDDSCSQTSLFLYSFCQQSRRQRIIQNRNTERLSDLLDWKY  
LGRYYMSARHMALSKAFPEHFTYEPNEADAAQYRYPRPASVPPSPSLSRHSSPHQSEDE  
EDPRNGPLEEDGERYDEDEAAKDRRNIRAPEWPRRASCTSSSTSGSKRNSVDTATSSSL  
TPSEPLSPTSSLGEERN

>sp|P54840|GYS2\_HUMAN Glycogen [starch] synthase, liver OS=Homo sapiens GN=GYS2 PE=1 SV=2

MLRGRSLSVTSLGGLPQWEVEELPVEELLLEFVAVWNTKVGGIYTVIQTKAKTTADEWG  
ENYFLIGPYFEHNMKTQVEQCEPVNDARRAVDAMNKHGCQVHFGRWLEGGSPYVVLFDI  
GYSAWNLDRWKGLWEACSVGIPYHDREANDMLIFGSLTAWFLKEVTDHADGKYVVAQFH



EWQAGIGLILSRARKLPIATIFTTHATLLGRVLCANIDFYNHLDKFNIDKEAGERQIYH  
RYCMERASVHCAHVFTTVSEITAIEAEHMLKRKPDVVPNGLVNKKFSAVHEFQNLHAMY  
KARIQDFVRGHFYGHLDLFDLEKTLFLFIAGRYEFSNKGADIFLESLSRLNFLLRMHKSDI  
TVMVFFIMPAKTNNFNVELTKGQAVRKQLWDVAHSVKEKFGKKLYDALLRGEIPDLNDIL  
DRDDLTIMKRAIFSTQRQSLPPVTTHNMIDDSTDPIILSTIRRIGLFNNRTDRVKVLHPE  
FLSSTSPLLPMDYEEFVRGCHLGVFPSYYEPWGYTPAECTVMGIPSVTNNLSGFGCFMQE  
HVADPTAYGIYIVDRRFRSPDDSCNQLTKFLYGFCQKSRQRRIQRNRTERLSDLLDWRY  
LGRYYQHARHLTLSRAFPDKFHVELTSPPTTEGFKYPRPSSVPPSPSGSQASSPQSSDVE  
DEVEDERYDEEEEAERDLNLIKSPFSLSHVPHGKKKLHGEYKN

>sp|Q6FI13|H2A2A\_HUMAN Histone H2A type 2-A OS=Homo sapiens GN=HIST2H2AA3 PE=1 SV=3  
MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKK  
TESHHKAKGK

>sp|Q16777|H2A2C\_HUMAN Histone H2A type 2-C OS=Homo sapiens GN=HIST2H2AC PE=1 SV=4  
MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKK  
TESHKAKSK

>sp|Q71UI9|H2AV\_HUMAN Histone H2A.V OS=Homo sapiens GN=H2AFV PE=1 SV=3  
MAGGKAGKDSGKAKAKAVSRSQRAGLQFPVGRIHRHLKTRTTSHGRVGATAAVYSAAILE  
YLTAEVLELAGNASKDLKVKRITPRHLQLAIRGDEELSLIKATIAGGGVIPHIHSLIG  
KKGQQKTA

>sp|O75367|H2AY\_HUMAN Core histone macro-H2A.1 OS=Homo sapiens GN=H2AFY PE=1 SV=4  
MSSRGKKKSTKTSRSKAGVIFPVGRMLRYIKKGHPKYRIGVGAPVYMAAVLEYLTAEI  
LELAGNAARDNKKGRVTPRHILLAVANDEELNQLKGVTIASGGVLPNIHPELLAKKRG  
KGKLEAIITPPAKKAKSPSQKPKVSKKAGGKKGARKSKKKQGEVSKAASADSTTEGTPA  
DGFTVLSTKSLFLGQKLNLIHSEISNLAGFEVEAIINPTNADIDLKDDLGNLTLEKKGKE  
FVEAVLELRKKNPLEVAGAAVSAGHGLPAKFVIHCNSPVWGADKCEELLEKTVMNCLAL  
ADKKLKSIAFPSIGSRNGFPKQTAAQLILKAISYFVSTMSSSIKTVYFVLFDSSEIG  
IYVQEMAKLDAN

>sp|Q99877|H2B1N\_HUMAN Histone H2B type 1-N OS=Homo sapiens GN=HIST1H2BN PE=1 SV=3  
MPEPSKAPAPKKGSKKAVTKAQKKGKRRKRSRKESYSVYVKVLQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGKAVT  
KYTSSK

>sp|Q6DN03|H2B2C\_HUMAN Putative histone H2B type 2-C OS=Homo sapiens GN=HIST2H2BC PE=5  
SV=3  
MPEPAKFAPAPKKGSKKAVTKAQKKGKRRKRSRKESYSIYVKVLKRVHPDTGIWCKAM  
GIMNSFLNDIFERIAGEASRLAHYNKRSTITSRRSRRPCACCCPASWPSTPCPRAPRRSP  
STPAPSESLPGPARSLPPSLPPRVAGCFVSKGSFQGHLLTSVKESFLCCQSQMLFLASR  
LVNFRRAHNTKHR

>sp|Q02539|H11\_HUMAN Histone H1.1 OS=Homo sapiens GN=HIST1H1A PE=1 SV=3  
MSETVPPAPAASAAPEKPLAGKKAKKPAKAAAASKKKPAGPSVSELIVQAASSSKERGGV  
SLAALKKALAAAGYDVEKNNSRIKLGKSLVSKGTLVQTKGTGASGSFKLNKKASSVETK  
PGASKVATKTKATGASKKLKATGASKKSVKTPKKAKKPAATRKSSKNPKPKTVKPKKV  
AKSPAKAKAVKPKAAKARVTKPKTAKPKKAAPKKK

>sp|Q53T59|H1BP3\_HUMAN HCLS1-binding protein 3 OS=Homo sapiens GN=HS1BP3 PE=1 SV=1  
MQSPAVLVTSRRLQNAHTGLDLTVPQHQEVRGKMMSGHVEYQILVVTRLAAFKSAKHRPE  
DVVQFLVSKKYSEIEEFYQKLSSRYAAASLPPLPRKVLFGESDIRERRAVFNEILRCVS  
KDAELAGSPELLEFLGTRSPGAAGLTSRDSSVLDGTDSTGNDEEAFDFFEEQDQVAEEG  
PPVQSLKGEDAEESELEEEALDPLGIMRSKKPKKHPKVAVKAKPSRLTIFDEEVDPEG  
LFGPGRKLSQPDSQEDVSSVDPLKLFDDPDLGGAIPLGDSLLLPAACESGGPTPSLSHRD  
ASKELFRVEEDLDQILNLGAEPKPKPQLKPKPPVAAKPVIPRKPAVPPKAGPAEAVAGQQ  
KPQEQIQAMDEMDILQYIQDHDTPAQAAPSLF

>sp|P20671|H2A1D\_HUMAN Histone H2A type 1-D OS=Homo sapiens GN=HIST1H2AD PE=1 SV=2  
MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLAHVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKK  
TESHHKAKGK

>sp|Q93079|H2B1H\_HUMAN Histone H2B type 1-H OS=Homo sapiens GN=HIST1H2BH PE=1 SV=3  
MPDPAKSAPAPKKGSKAVTKAQKKDGKKRKRSRKESYSVYVYKVLKQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSSK

>sp|Q16778|H2B2E\_HUMAN Histone H2B type 2-E OS=Homo sapiens GN=HIST2H2BE PE=1 SV=3  
MPEPAKSAPAPKKGSKAVTKAQKKDGKKRKRSRKESYSIYVYKVLKQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSSK

>sp|Q7Z2G1|H2BWT\_HUMAN Histone H2B type W-T OS=Homo sapiens GN=H2BFWT PE=1 SV=2  
MLRTEVPRLPRSTTAIVWSCHLMATASAMAGPSSETTSEEQLITQEPKEANSTTSQKQSK  
QRKRGRHGPRRCHSNCRGDSFATYFRRVLKQVHQGLSLSREAVSVMDSLVHDILDRIATE  
AGRLARSTKRQTITAWETRMVAVRLLLPQMGKLAESEGTKAVLRTSLYAIQQQRK

>sp|Q5JVS0|HABP4\_HUMAN Intracellular hyaluronan-binding protein 4 OS=Homo sapiens  
GN=HABP4 PE=1 SV=1  
MKGALGSPVAAAGAAQESFGCVVANRFHQLLDDSDPFDILREAERRRQQQLQRKRRDE  
AAAAAGAGPRGGRSPAGASGHRAGAGGRRESQKERKSLPAPVAQRPDSPGGGLQAPGQKR  
TPRRGEQQGWNSRGPPEGMLERAERSYREYRYPETERQADFTAEPDEKPGDRFDRDR  
PLRGRGGPRGMRGRGRGGPGNRVFDADFQRGKREFERYGGNDKIAVRTEDNMGGCGVRT  
WGSKDTSDVEPTAPMEEPTVVEESQGTPEEESPAKVPELEVEEETQVQEMTLDEWKNLQ  
EQTRPKPEFNIRKPESTVPSKAVVIHKSRYDDMVKDDYEDDSHVFRKPANDITSQLEIN  
FGNLPRPGRGARGGTRGGRGRIIRAENYGPRAEVVMQDVAPNPDDPEDFPALS

>sp|Q68CZ6|HAUS3\_HUMAN HAUS augmin-like complex subunit 3 OS=Homo sapiens GN=HAUS3 PE=1  
SV=1  
MSCGNEFVETLKKIGYPKADNLNGEDFDWLFEGVEDESFLKWFCGNVNEQNVLSERELEA  
FSILQKSGKPILEGAALDEALKTCKTSDLKTPLRDDKELEKLEDEVQTLCLKNLKIQR  
NKCQLMASVTSHKSLRLNAKEEATKKLKQSQGILNAMITKISNELQALTDEVTQLMMFF  
RHSNLGQGTNPLVFLSQFSLEKYSQEEQSTAALTLYTKKQFFQGIHEVVESNEDNFQL  
LDIQTPSICDNQEIIEERRLEMARQLAYICAHQLIHLKASNSSMKSSIKWAEESLHSL  
TSKAVDKENLDAKISSLTSEIMKLEKEVTQIKDRSLPAVVRENAQLLNMPVVKGDFDLQI  
AKQDYITARQELVLNQLIKQKASFELLQLSYEIELRKHRDIYRQLENLVQELSQQSNMMLY  
KQLEMLTDPSVSQQINPRNTIDTKDYSTRLYQVLEGENKKKELFLTHGNLEEVAEKLKQ  
NISLVQDQLAVSAQEHSFFLSKRKNKDVMDLCTLYQGGNQLLLSDQELTEQFHKVESQLN

KLNHLLTDILADVTKRKRTLANNKLHQMEREFYVYFLKDEDYLDIVENLETQSKIKAVS  
LED

>sp|P69905|HBA\_HUMAN Hemoglobin subunit alpha OS=Homo sapiens GN=HBA1 PE=1 SV=2  
MVLSPADKTNVKAAGKVGGAHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHG  
KKVADALTNAAHVDDMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTP  
AVHASLDKFLASVSTVLTSKYR

>sp|O60381|HBP1\_HUMAN HMG box-containing protein 1 OS=Homo sapiens GN=HBP1 PE=1 SV=2  
MVWEVKTNQMPNAVQKLLLVMKCRASGMNDSLELLQCENLPPSSPGYNCSDEHMELEDDL  
ELQAVQSDPTQSGMYQLSSDVSHQEYPRSSWNQNTSDIPETTYRENEVDWLTELNIATS  
PQSPLMQCSFYNRSSPVHIIATSKSLHSYARPPPVSSSSKSEPAFPHHHWKEETPVRHER  
ANSESESGIFCMSSLSDDDDLGCNSWPSTVWHCFLKGTRLCFHKGSNKEWQDVEDFARA  
EGCDNEEDLQMGIIHKGYSDDLKLLSHEESVSFGESVLKLTDFDPTVEDGLLTVECKLDH  
PFYVKNKGWSSFYPSLTVVQHGI PCCEVHIGDVCLPPGHPDAINFDDSGVFDTFKSYDFT  
PMDSSAVVYLSSMARQRASLSCGGPGGQDFARSGFSKNCSPGSSQLSSNSLYAKAVKN  
HSSGTVSATSPNCKRPMNAFMLFAKKYRVEYTMYPGKDNRAISVILGDRWKKMKNEER  
RMYTLEAKALAEQKRLNPDCWKRKRTNSGSQQH

>sp|P14317|HCLS1\_HUMAN Hematopoietic lineage cell-specific protein OS=Homo sapiens  
GN=HCLS1 PE=1 SV=3  
MWKSVVGHDSVSVETQGGDWDTPDFVNDISEKEQRWGAKTIEGSGRTEHINIHLRNK  
VSEHDVLRKKEMESGPKASHGYGGRFGVERDRMDKSAVGHEYVAEVEKHSSQTDAAGF  
GGKYGVERDRADKSAVGFDYKEVEKHTSQKDYSRGGGRYGVKDKWDKAALGYDYKGE  
TEKHESQRDYAKFGGQYGIQKDRVDKSAVGFNEMEAPPTAYKKTTPIEAASSGTRGLKA  
KFESMAEEKRKREEEKAQQVARRQKERKAVTKRSPEAPQPVIAEPPAVPAPLPKKISS  
EAWPPVGTTPPSSESEPEVRSREHPVPLLPIRQTLPEDNEEPPALPRTLEGLQVEEPPVY  
EAEPEPEPEPEPEPENDYEDVEEMDRHEQEDEPEGDYEEVLEPEDSSFSALAGSSGCPA  
GAGAGAVLGISAVAVDYQGEQSDELSFDPDDVITDIEMVDEGWWRGRCHGHFGLFPAN  
YVKLLE

>sp|Q9BY41|HDAC8\_HUMAN Histone deacetylase 8 OS=Homo sapiens GN=HDAC8 PE=1 SV=2  
MEEPEEPADSGQSLVPYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKMRIVKPK  
VASMEEMATFHTDAYLQHLQKVSQEGDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATI  
TAAQCLIDGMCKVAINWGGWHHAKKDEASGFCYLNDVGLILRLRRKFERILYVDLDLH  
HGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYYSVNVPIQDGIQDEKY  
YQICESVLKEVYQAFNPKAIVLQLGADTIAGDPMCSFNMTVPVIGKCLKYILQWQLATLI  
LGGGGYNLANTARCWTYLTGVILGKTLSSIEPDHEFFTAYGPDYVLEITPSCRPRNEPH  
RIQQILNYIKGNLKHVV

>sp|P08397|HEM3\_HUMAN Porphobilinogen deaminase OS=Homo sapiens GN=HMBS PE=1 SV=2  
MSGNGNAAATAEENSPKMRVIRVGTRKSQLARIQTDSVVATLKASYPGLQFEIIAMSTG  
DKILD TALSKIGKSLFTKELEHALEKNEVDLVVHSLKDLPTVLPFGFTIGAICKRENPH  
DAVVFHPKFVGKLTLETLPEKSVGTSSLRRAAQLQRKFPHFLEFRSIRGNLNTRLRKLDEQ  
QEFSAILATAGLQRMGWHNRVGQILHPEECMYAVGQAGLGEVRAKDQDILDVGLVHD  
PETLLRCIAERAFLRHLEGGCSVPVAVHTAMKDGQLYLTGGVWSLDGSDSIQETMQATIH  
VPAQHEDGPEDDPQLVGITARNIPRGPQLAAQNLGISLANLLSKGAKNILDVARQLNDA  
H

>sp|P36551|HEM6\_HUMAN Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial  
OS=Homo sapiens GN=CPOX PE=1 SV=3

MALQLGRLSSGPCWLVARGGCGGPRAWSQCGGGGLRAWSQRSAAGRVCRRPPGAGTEQSR  
GLGHGSTRGGPWVGTGLAAALAGLVGLATAAFGHVQRAEMLPKTSGTRATSLGRPEEEE  
DELAHRCSSFMAPPVTDLGELRRRPGDMKTKMELLIETQAQVCQALAQVDGGANFSVDR  
WERKEGGGGISCVLQDGCVFEEKAGVSISVVHGNLSEEAQKMRSGKVLKTKDGKLPFCA  
MGVSSVIHPKNPHAPTIHFNYRYFEVEEADGNKQWWFGGGCDLTPTYLNQEDAVHFHRTL  
KEACDQHGPDLYPKFKKWCDDYFFIAHRGERRGIGGIFDDLSPSKEEVFRFVQSCARA  
VVPSYIPLVKKHCDDSTPQEKLWQQLRGRYVEFNLLYDRGTFGLFTPGSRIESILMS  
LPLTARWEYMHSPSENSKEAEILEVLRHPRDWVR

>sp|Q99680|GPR22\_HUMAN Probable G-protein coupled receptor 22 OS=Homo sapiens GN=GPR22  
PE=2 SV=2

MCFSPILEINMQSESNITVRDDIDDINTNMYQPLSYPLSFQVSLTGFLMLEIVLGLGSNL  
TVLVLYCMKSNLINSVSNIIITMNLHVLVDVVICVGCIPLTIVILLLSLESNTALICCFHEA  
CVSFASVSTAINVFAITLDRYDISVKPANRILTMGRAVLMISIWIFSFFSFLIPFIEVN  
FFSLQSGNTWENKTLCCVSTNEYYTELGMYHLLVQIPIFFFTVVVMLITYTKILQALNI  
RIGTRFSTGQKKKARKKKTISLTTQHEATMSQSSGGRNVVFGVRTSVSVIIALRRRAVKR  
HRERRERQKRVFRMSLLIISTFLLCWTPISVLNTTILCLGPSDLLVKLRLCFLVMAYGTT  
IFHPLLYAFTRQKFQKVLKSKMKKRVVSIVEADPLPNNAVIHNSWIDPKRNKKITFEDSE  
IREKCLVPQVVD

>sp|Q9Y2T6|GPR55\_HUMAN G-protein coupled receptor 55 OS=Homo sapiens GN=GPR55 PE=1 SV=2

MSQQNTSGDCLFDGVNELMKTLLQFAVHIPTFVLGLLNLLAIHGFSTFLKNRWPDYAATS  
IYMINLAVFDLLVLSLPFKMVLSSQVQSPFSLCTLVECLYFVSMYGSVFTICFISMDRF  
LAIRYPLLVSHLRSPRKIFGICCTIWVLVWTGSIPIYSFHGKVEKYMCFHNMSDDTWSAK  
VFFPLEVFGFLLPMGIMGFCCSRSIHILLGRRDHTQDWVQQKACIYSIAASLAVFVVSFL  
PVHLGFFLQFLVRNSFIVECRAKQSSISFFLQLSMCFSNVNCCLDVFCYFVFIKEFRMNIR  
AHRPSRVQLVLQDTTISRG

>sp|Q9BZJ8|GPR61\_HUMAN Probable G-protein coupled receptor 61 OS=Homo sapiens GN=GPR61  
PE=2 SV=2

MESSPIPQSSGNSSTLGRVPQTPGPSTASGVPEVGLRDVASESVALFFMLLDLTAVAGN  
AAVMAVIAKTPALRKFFVVFHLLCLVDLLAALTLMLAMLSSSALFDHALFGEVACRLYLF  
LSVCFVSLAILSVSAINVERYYYYVHPMRYEVRMTLGLVASVLVGWVKALAMASVPVLG  
RVSWEEGAPSVPPGCSLQWSHAYCQLFVVVFAVLYFLLPLLLILVYCSMFRVARVAAM  
QHGPLPTWMETPRQRSESLSRSTMVTSSGAPQTPHRTFGGKAADVLLAVGGQFLLCW  
LPYFSFHLYVALSAQPISTGQVESVVTWIGYFCFTSNPFYGCNLRQIRGELSKQFVCF  
KPAPEEELRLPSREGSIEENFLQFLQGTGCPSESWSRPLPSPKQEPVDFRIPGQIAE  
ETSEFLEQQLTSDIIMSDSYLRPAASPRLES

>sp|Q9BZJ6|GPR63\_HUMAN Probable G-protein coupled receptor 63 OS=Homo sapiens GN=GPR63  
PE=2 SV=2

MVFSAVLTAFTGTSTNTTFVYENTYMNITLPPPFQHPDLSPLLRYSFETMAPTGLSSLT  
VNSTAVPTTPAAFKSLNPLQITLSAIMIFILFVSFLGNLVVCLMVYQKAAMRSAINILL  
ASLAFADMLLAVLNMPFALVTILTTRWIFGKFFCRVSAMFFWLFVIEGVAILLIISIDRF  
LIIVQRQDKLNPYRAKVLIAVSWATSFCAVFLAVGNPDLQIPSRAPQCVFGYTTNPGYQ  
AYVILISLISFFIPFLVILYSFMGILNLRHNALRIHSYPEGICLSQASKLGLMSLQRP

QMSIDMGFKTRAFTTILILFAVFIVCWAPFTTYSLVATFSKHFFYYQHNFFEISTWLLWLC  
YLKSALNPLIYYWRIKKFHDACLDMMPKSFKFLPQLPGHTKRRIRPSAVYVCGEHRTVV

>sp|Q9NYM4|GPR83\_HUMAN Probable G-protein coupled receptor 83 OS=Homo sapiens GN=GPR83  
PE=2 SV=2

MVPHLLLLCLLPLVRATEPHEGRADEQSAEALAVPNASHFFSWNNYTFSDWQNFVGRRR  
YGAESQNPTVKALLIVAYSFIIIVFSLFGNVLVCHVIFKNQRMHSATSLFIVNLAVADIMI  
TLLNTPFTLVRFVNSTWIFGKGMCVSRFAQYCSLHVSALTLTATAIVDRHQVIMHPLKPR  
ISITKGVIIYIAVIWTMATFFSLPHAICQKLFTFKYSEDIVRSLCLPDFPEPADLFWKYLD  
LATFILLYILPLLIISVAYARVAKKLWLCNMIGDVTTEQYFALRRKKKTIKMLMLVVVL  
FALCWFLNLCYVLLSSKVIRTNALYFAHWFAMSSTCYNPFIYCWLNENFRIELKALL  
SMCQRPPKQEDRPPSPVPSFRVAWTEKNDGQRAPLANNLLPTSQQLQSGKTDLSSVEPIV  
TMS

>sp|P60893|GPR85\_HUMAN Probable G-protein coupled receptor 85 OS=Homo sapiens GN=GPR85  
PE=1 SV=1

MANYSHAADNILQNLSPHTAFLKLTSLGFIIGVSVVGNLLISILLVKDKTLHRAPYYFLL  
DLCCSDILRSAICFPFVFNVSXKNGSTWTYGTLTCKVIAFLGVLSCFHTAFMLFCISVTRY  
LAIAHHRFYTKRLTFWTCLAVICMVWTLVAMAFPPVLDVGTYSFIREEDQCTFQHRFR  
ANDSLGFMLLLALILLATQLVYLKLIFFVHRRKMKPVQFVAASQNWTFHGPASGQAA  
ANWLAGFGRGPTPTLLGIRQNANTTGRRRLVLDEFKMEKRISRMFYIMTFLFLTLWGP  
YLVACYWRVFARGPVVPGGFLTAAVWMSFAQAGINPFVCIFSNRELRRCFSTLLYCRKS  
RLPREPYCVI

>sp|Q9BY21|GPR87\_HUMAN G-protein coupled receptor 87 OS=Homo sapiens GN=GPR87 PE=2 SV=1

MGFNLTLAKLPNNELHGQESHNSGNRSDGPGKNTTLHNEFDITVLPVLYLIIFVASILLN  
GLAVWIFFHIRNKTSTFYLNIVVADLIMTLTFPFRIVHDAGFGPWYFKFILCRYTSVL  
FYANMYTSIVFLGLISIDRYLKVVKPFGDSRMYSITFTKVLSVCVWVIMAVLSLPNIILT  
NGQPTEDNIHDCSKLKSPLGVKWHATAVTVVNSCLFVAVLVILIGCYIAISRYIHKSSRQF  
ISQSSRRKRKHNSIRVVAVVFTCFPLPYHLCRIPFTFSLDRLLDESAQKILYYCKEITL  
FLSACNVCLDPIIYFFMCRSFSRRLFKKSNIRTRSESIRSLQSVRRSEVRIYYDYTDV

>sp|Q8N954|GPT11\_HUMAN G patch domain-containing protein 11 OS=Homo sapiens GN=GPATCH11  
PE=1 SV=3

MAEEDYMSDSFINVQEDIRPGLPMLRQIREARRKEEKQNEANLKNRQKSLKEEEQERRD  
IGLNALGCENKGFALLQKMGYKSGQALGKSGGIVEPIPLNIKTGKSGIGHEASLKRKA  
EEKLESYRKKIHMKNQAEKAAEQFRMLKNKQDEMKEGLRRSQRACQLDVQKNIQV  
PREAWYWLREEETEEDDEEKEQDEDEYKSEDLVLEKLQILTSYLREEHLYCIWCGTAY  
EDKEDLSSNCPGPTSADHD

>sp|Q9NWQ4|GPT2L\_HUMAN G patch domain-containing protein 2-like OS=Homo sapiens  
GN=GPATCH2L PE=1 SV=3

MDELVHDLASALEQTSEQNKLGEWEEMALSPRQQRRLRKRGRKRSDFTHLAEHTCC  
YSEASESSLDEATKDCREVAPVTNFSDDTMVAKRHPALNAIVKSKQHSWHESDSFTEN  
APCRPLRRRRKVKRVTSVAASLQQLKVSVDWSYERGCRFKSAKKQRLSRWKENTPWTSS  
GHGLCESAENRTFLSKTGRKERMECETDEQKQGSDENMSECETSSVCSSSDTGLFTNDEG  
RQGDDEQSDWFYEGECVPGFTVPNLLPKWAPDHCSEVERMDSGLDKFSdstfllpsrpaq  
RGYHTRLNRLPGAAARLKRGRRLVGKETSINTLGTERTISHIISDPRQKEKNKALASDF  
PHISACAHEFNPLSPLYSLDVLADASHRRCSAHC SARQANVHWGPPCSRD IKRKRKPVA

TASLSSPSAVHMDAVEPTTPASQAPKSPSSEWLVRTSAAEKATDATTATFFKMPQEKSPG  
YS

>sp|Q9NW75|GPTC2\_HUMAN G patch domain-containing protein 2 OS=Homo sapiens GN=GPATCH2  
PE=1 SV=1

MFGAAGRQPIGAPAAGNSWHFSRTMEELVHDLVSALEESSEQARGGFAETGDHSRSISCP  
LKRQARKRRGRKRRSYNVHHPWETGHCLSEGSDDSSLEEPSKDYRENHNNKKDHSDSDQ  
MLVAKRRPSSNLNNVRGRPLWHESDFAVDNVGNRTLRRRRKVKRMAVDLPQDISNKRT  
MTQPPEGCRDQDMDSRAYQYQEFTKNKVKKRKLKIIRQGPKIQDEGVVLESEETNQTNK  
DKMECEEQKVSDELMSESDSSSLSTDAGLFTNDEGRQGDDEQSDWFYEKESGGACGITG  
VVPWWEKEDPTELDKNVPDPVFESILTGSFPLMSHPSRRGFQARLSRLHGMSSKNIKKSG  
GTPTSMVPIPGPVGNKRMVHFSPDSHHHDHWFSPGARTEHDQHQLLRDNRAERGHKKNC  
VRTASRQTSMLHLSLCTGDIKRRRKAAPLPGPTTAGFVGENAQPILENNIGNRMLQNMGW  
TPGSGLGRDGKGISEPIQAMQRPKGLGLGFPLPKSTSATTTPNAGKSA

>sp|O15544|GR6\_HUMAN Protein GR6 OS=Homo sapiens GN=LINC01565 PE=2 SV=1

MKEALHQIVVRCSELVSSTSLPRLSVSRLQGPPDSQPLGTLGQGWKLLGIVGSLAPETL  
GGLGTEFGPCTHPLPFDVMVRERERDELRRQGWLLQCPQCARTLLCHCGPFLTPPSQTSSS  
GFQLCSLKPSSGLVTATEPLSNFAFSYFP

>sp|P12544|GRAA\_HUMAN Granzyme A OS=Homo sapiens GN=GZMA PE=1 SV=2

MRNSYRFLASSLSVVVSLLLIPEDVCEKIIIGNEVTPHSRPFYVLLSLDRKTICAGALIA  
KDWVLTAAHCNLNKRQVILGAHSITREEPTKQIMLVKKEFPYPCYDPATREGDLKLLQL  
MEKAKINKYVTILHLPKKGDDVKPGTMCQVAGWGRTHNSASWSDTLREVNITIIDRKVCN  
DRNHYNFNPVIGMNMVCAGSLRGRDSCNGDSGSPLLCEGVFRGVTSFGLENKCGDPRGP  
GVYIILSKKHLNWIIMTIKAV

>sp|P49863|GRAK\_HUMAN Granzyme K OS=Homo sapiens GN=GZMK PE=1 SV=1

MTKFSSFSLLFVLIVGAYMTHVCFNMEIIGGKEVSPHSRPFMASIQYGGHHVCGGVLIDPQ  
WVLTAAHCQYRFTKGQSPTVVLGAHSLSKNEASKQTLEIKKFIPFSRVTSDPQSNIMLV  
KLQTAAKLNKHVKMLHIRSKTSLRSGTKCKVTGWGATDPDSLPSDTLREVTVTVLSRKL  
CNSQSYNGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFHAIVSGGHECGVATKP  
GIYTLTCKKYQTWIKSNLVPHTN

>sp|P51124|GRAM\_HUMAN Granzyme M OS=Homo sapiens GN=GZMM PE=1 SV=2

MEACVSSLLVLALGALSVGSSFGTQIIGGREVIPHSRPFYMASLQRNGSHLCGGVLVHPKW  
VLTAACHLAQRMAQLRLVLGLHTLDSPGLTFHIKAAIQHPRYKVPALENDLALLQLDGK  
VKPSRTIRPLALPSKRQVVAAGTRCSMAGWGLTHQGGRLSRVLRDLQVLDTRMCNNSR  
FWNGSLSPSMVCLAADSKDQAPCKGDSGGPLVCGKGRVLRVLSFSSRVCTDIFKPPVAT  
AVAPYVSWIRKVTGRSA

>sp|P28676|GRAN\_HUMAN Grancalcin OS=Homo sapiens GN=GCA PE=1 SV=2

MAYPGYGGGFGNFSIQVPGMQMGQVPVETGPAILLDGYSGPAYSDTYSSAGDSVYTYFSA  
VAGQDGEVDAEELQRCLTQSGINGTYSFSLCTCRIMIAMLDRDHTGKMGFNAFKELWAA  
LNAWKENFMTVDQDGSQTVEHHELRLQAIGLMGYRLSPQTLTTIVKRYSKNGRIFFDDYVA  
CCVKLRALTDFFRKRDHLQQGSANFIYDDFLQGTMAI

>sp|Q8TC17|GRAPL\_HUMAN GRB2-related adapter protein-like OS=Homo sapiens GN=GRAPL PE=3  
SV=3

MESVALYSFQATESDELA FNKGDTLKI LNMEDDQNWYKAELRGVEGFIPKNYIRVKPHPW  
YSGRISRQLAEEILMKRNHLGAFLIRESESSPGEFSVSVNNRAQRGPCLGPKSHSRLG

>sp|Q13588|GRAP\_HUMAN GRB2-related adapter protein OS=Homo sapiens GN=GRAP PE=1 SV=1

MESVALYSFQATESDELA FNKGDTLKILNMEDDQNWYKAELRGVEGFIPKNYIRVKPHPW  
YSGRISRQLAEEILMKRNHLGAFLIRESESSPGFEFSVSVNYGDQVQHFVKVLRASGKYFL  
WEEKFNLSNELVDFYRTTTIAKKRQIFLRDEEPLLKSPGACFAQAQFDFSAQDPSQLSFR  
RGDIIIEVLERPDPHWWGRSCGRVGFPRSYVQPVHL

>sp|Q7Z6J2|GRASP\_HUMAN General receptor for phosphoinositides 1-associated scaffold protein OS=Homo sapiens GN=GRASP PE=1 SV=1

MTLRRRLRKLQQKEEAAATPDPAARTPDSEVAPAAPVPTPGPPAAAATPGPPADELYAALE  
DYHPAELYRALAVSGGTLPRRKGSGFRWKNLSQSPEQQRKVLTKEDNQTFGFEIQTYG  
LHHREEQRVEMVTFVCRVHESSPAQLAGLTPGDTIASVNGLNVEGIRHREIVDIIKASGN  
VLRLETLYGTSIRKAELERLQYLKQTLYEKWGEYRSLMVQEQLVHGLVVKDPSIYDTL  
ESVRSCLYGAGLLPGSLPFGPLLAVPGRPRGGARRARGDADDAVYHTCFFGDSEPPALPP  
PPPPARAFGPGPAETPAVGPGPGPRAALSRASVRCAGPGGGGGGGAPGALWTEAREQAL  
CGPGLRKT KYRSFRRRLKFIPGLNRSLEEEESQL

>sp|Q8IV61|GRP3\_HUMAN Ras guanyl-releasing protein 3 OS=Homo sapiens GN=RASGRP3 PE=1 SV=1

MGSSGLGKAATLDELLCTCIEMFDDNGELDNSYLPRIVLLMHRWYLSSTELA EKLKCMYR  
NATGESCFNEFRLKICYFMRYWILKFAEFNLDLGLIRMTEEFREVASQLGYEKHVSLIDI  
SSIPSYDWMRRVTQRKKVSKKGKACLLFDHLEPIELAEHLTFLEHKSFRRI SFTDYQSYV  
IHGCLENNPTLERSIALFNGISKWVQLMVLSKPTPQQRAEVITKFINVAKKLLQLKNFNT  
LMAVVGGLSHSSISRLKETHSHLSSEVTKNWNEMTELVSSNGNYCNRYKAFADCDGFKIP  
ILGVHLKDLIAVHVIFPDWTEENKVNIVKMHQLSVTLSELVSLQNASHHLEPNMDLINLL  
TSLDLYHTEDDIYKLSLVLEPRNSKSQPTSPTPNKPVVPLEWALGVMPKPDPTVIN KH  
IRKLVESVFRNYDHDHDGYISQEDFESIAANFPFLDSFCVLDKQDGLISKDEMMAYFLR  
AKSQLHCKMGPFIHNFQEMTYLKPTFCEHCAGFLWGI IKQGYKCKDCGANCHKQCKDLL  
VLACRRFARAPSLSSGHGSLPGSPSLPPAQDEVFEFPGVTAGHRDLSRAITLV TGSSRK  
ISVRLQRATTSQATQTEPVWSEAGWGDSGSHTFPKMKSKFHDKAAKDKGFAKWENEKPRV  
HAGVDVVDRGTEFELDQDEGEETRQDGEDG

>sp|Q9NRJ2|GSAS1\_HUMAN Putative uncharacterized protein GSN-AS1 OS=Homo sapiens GN=GSN-AS1 PE=5 SV=1

MTHPLPHDSHTSGAPPLVNKSRDLANGPPFFSPLQSLWEEFLHLLFMGTLLFYRIATKAL  
RGKATLLKSHSKPAQPGWEPGIRAPSPVPASSLQDHSRLTSLSRTGKEQRTLSLIRKT  
SGTPTTESTVATAAASTTEVPSRLPWAAAGFKRTTGVCIALPT

>sp|Q8TAX9|GSDMB\_HUMAN Gasdermin-B OS=Homo sapiens GN=GSDMB PE=2 SV=2

MFSVFEEITRIVVKEMDAGGDMIAVRSLVDADRFRCFHLVGEKRTFFGCRHYTTGLTMD  
ILDTDGDKWLDELDSGLQGQKAEFQILDNDSTGELIVRLPKEITISGSFQGFHHQKIKI  
SENRIQQYLATLENRKLKREL PFSFRSINTRENLYLVTTETLVKEETLKSDRQYKFWS  
QISQGHLSYKHKGQREV TIPPNRVLSYRVKQLVFPNKETMSAGLDIHFRGKTKSFPEGKS  
LGSEDSRNMKEKLEDMESVLKDLTEEKRKDVLSLAKCLGKEDIRQDLEQRVSEVLISGE  
LHMEDPDKPLSSLFNAAGVLVEARAKAILDFLDALLELSEEQQFVAEAELEKGTLP LLKD  
QVKSVM EQNWDELASSPPDMYDPEARILCALYVVVSILLELAEGPTSVSS

>sp|P48506|GSH1\_HUMAN Glutamate--cysteine ligase catalytic subunit OS=Homo sapiens GN=GCLC PE=1 SV=2

MGLLSQGSPLSWEETKRHADHVRRHGILQFLHIYHAVKDRHKDV LKWGDEVEYMLVSFDH  
ENKKVRLVLSGEKVLETLQEKGERTNP NHPTLWRPEYGSYMI EGTGQPYGGTMSEFNTV

EANMRKRKEATSILEENQALCTITSFRLGCPGFTLPEVKPNPVEGGASKSLFFPDEAI  
NKHPRFSTLTRNIRHRRGEKVVINVP IFKDKNTPSPFIETFTEDDEASRASKPDHIYMDA  
MGFGMGNCCQLQVTFQACSISEARYLYDQLATICPIVMALSAASPFYRGYVSDIDCRWGI  
SASVDDRTREERGLEPLKNNNYRISKSRYDSIDSYLSKCGEKYNDIDLTIDKEIYEQLLQ  
EGIDHLLAQHVAHLFIRDPLTLFEEKIHLDDANESDHFENIQSTNWQTMRFKPPPPNSDI  
GWRVEFRPMEVQLTDFENSAYVVFVLLTRVILSYKLDLPLSKVDENMKVAQKRDAVL  
QGMFYFRKDICKGNAVVDGCGKAQNSTELAAEYTLMSIDTIINGKEGVFPGLIPILNS  
YLENMEVDVDRCSILNYLKL IKKRASGELMTVARWMREFIANHPDYKQDSVITDEMNYS  
LILKCNQIANELCEPELLGSAFRKVYSGSKTDSSN

>sp|P09210|GSTA2\_HUMAN Glutathione S-transferase A2 OS=Homo sapiens GN=GSTA2 PE=1 SV=4

MAEKPKLHYSNIRGRMESIRWLLAAAGVEFEKFIKSAEDLDKLRNDGYLMFQQVPMVEI  
DGMKLVQTRAILNYIASKYNLYGKDIKEKALIDMYIEGIADLGEMILLLPFSQPEEQDAK  
LALIQEKTKNRYFPAFEKVLKSHGQDYLVGNKLSRADIHLVELLYYVEELDSSLISSFPL  
LKALKTRISNLP TVKKFLQPGSPRKPPMDEKSLEESRKIFRF

>sp|Q7RTV2|GSTA5\_HUMAN Glutathione S-transferase A5 OS=Homo sapiens GN=GSTA5 PE=1 SV=1

MAEKPKLHYSNARGSMESIRWLLAAAGVELEEKFLSAEDLDKLRNDGSLLFQQVPMVEI  
DGMKLVQTRAILNYIASKYNLYGKDMKERALIDMYTEGIVDLTEMILLLLICQPEERDAK  
TALVKEKIKNRYFPAFEKVLKSHRQDYLVGNKLSWADIHLVELFYVEELDSSLISSFPL  
LKALKTRISNLP TVKKFLQPGSQRKPPMDEKSLEEARKIFRF

>sp|P30711|GSTT1\_HUMAN Glutathione S-transferase theta-1 OS=Homo sapiens GN=GSTT1 PE=1  
SV=4

MGLELYDLDSQPCRAVYIFAKKNDIPFELRIVDLIKGQHLSDAFAQVNPLKKVPALKDG  
DFTLTESVAIILLYLTRKYKVPDYWYPQDLQARARVDEYLAWQHTTLRRSCLRALWHKVMF  
PVFLGEPVSPQTLAATLAELDVTQLLEDKFLQNKAFLTGPHISLADLVAITELMHPVGA  
GCQVFEGRPKLATWRQRVEAAVGEDLFQEAHEVILKAKDFPPADPTIKQKLMPWVLAMIR

>sp|Q9H4S2|GSX1\_HUMAN GS homeobox 1 OS=Homo sapiens GN=GSX1 PE=2 SV=1

MPRSFLVDSLVLREAGEKKAPEGSPPLFPYAVPPPHALHGLSPGACHARKAGLLCVCPL  
CVTASQLHGPPGPPALPLLKASFPFGSQYCHAPLGRQHSASPGVAHGPAAAAAAAAAALY  
QTSYPLDPDRQFHCISVDSSSNQLPSSKRMRTAFTSTQLLELEREFASNMYLSRLRRIEI  
ATYLNLSKQVKIWFQNNRRVKHKKEGKGSNHRGGGGGAGGGGSAPQGCKCASLSSAKCS  
EDDDELPMSPSSSGKDDRLTVTP

>sp|Q9UGQ3|GTR6\_HUMAN Solute carrier family 2, facilitated glucose transporter member 6  
OS=Homo sapiens GN=SLC2A6 PE=1 SV=2

MQEPLLGAEGPDYDTFPEKPPSPGDRARVGT LQNKRVFLATFAAVLGNFSFGYALVYTS  
PVIPALERSLDPDLHLTKSQASWFGSVFTLGAAAGGLSAMILNDLLGRKLSIMFSAVPSA  
AGYALMAGAHGLWMLLLGRTLTGFAAGGLTAACIPVYVSEIAPPGVRGALGATPQLMAVFG  
SLSLYALGLLLPWRWLAVAGEAPVIMILLLSFMPNSPRFLLSRGRDEEALRALAWLRGT  
DVDVHWEFEQIQDNVRRQSSRVSWAEARAPHVCRPITVALLMRLQLTGTIPILVYLS  
IFDSTAVLLPPKDDAAIVGAVRLLSVLIAALTMDLAGRKVLLFVSAAIMFAANLTGLYI  
HFGPRPLSPNSTAGLESESWGDLAQPLAAPAGYLTLPVLLATMLFIMGYAVGWGPITWLL  
MSEVLPLRARGVASGLCVLASWLTAFVLTKSFLPVVSTFGLQVPFFFAAICLVSLVFTG  
CCVPETKGRSLEQIESFFRTGRRSFLR

>sp|Q8WW33|GTSF1\_HUMAN Gametocyte-specific factor 1 OS=Homo sapiens GN=GTSF1 PE=1 SV=2

MEETYDSDLPEKLLQCPYDKNHQIRACRFPHYLIKCRKNHPDVASKLATCPFNARHQVP



RAEISHHISCCDDRSCIEQDVVNQTRSLRQETLAESTWQCPCEDWDKDLWEQTSTPFV  
WGTTHYSDNNSPASNIVTEHKNNLASGMRVPKSLPYVLPWKNNNGNAQ

>sp|Q9Y2T3|GUAD\_HUMAN Guanine deaminase OS=Homo sapiens GN=GDA PE=1 SV=1

MCAAQMPPLAHIFRGTfVHSTWTCPEVLRDHLGVSDSGKIVFLEEASQQEKLAKIEWCF  
KPCEIRELSHHEFFMPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DFA  
EEVYTRVVRRTLKNGTTTACyFATIHTDSSLLLADITDKFGQRAfVGKVCMDLNDTFPEY  
KETTEESIKETERfVSEMLQKNYSRVKPIVTPRfSLSCSETLMGELGNI AKTRDLHIQSH  
ISENRDEVEAVKNLYPSYKNYTSVYDKNNLLTNKTVMAHGcYLSAEELNVFHERGASIAH  
CPNSNLSLSSGFLNVLEVLKHEVKIGLGTDVAGGYSYMLDAIRRAVMVSNILLINKVNE  
KSLTLKEVfRLATLGGSQALGLDGEIGNFEVGKEFDAILNPKASDSPIDLfYGDFFGDI  
SEAVIQKFLYLGD DRNIEEVYVGKQVVPFSSSV

>sp|P25092|GUC2C\_HUMAN Heat-stable enterotoxin receptor OS=Homo sapiens GN=GUCY2C PE=1  
SV=2

MKTLLLDLALWSLLFQPGWLSFSSQVSQNCHNGSYEISVLMMGNSAF AEPLKNLEDAVNE  
GLEIVRGRLQAGLNVTVNATfMYSDGLIHNSGDCRSSTCEGLDLLRKISNAQRMGCVLI  
GPSCYSTfTfQMYLDTELSYPMISAGSfGLSCDYKETLTRLMSPARKL MYFLVNFWKTN DL  
PFKtYSWSTSYVYKNGTETEDCFWYLNAL EASVSyFSHELGFKVVL RQDKEfQDILMDHN  
RKSNVIIMCGGPEFLYKLKGDRAVAEDIVI ILVDLFNDQYfEDNVTAPDYMKNVLVLTLS  
PGNSLLNSSFSRNLSPTKRDFALAYLNGILLFGHMLKIFLENGENITTPKFAHAFRNLTf  
EGYDGPVTLDDWGDVDSTMVLLYTSVDTKKYVLLTYDTHVNKTYPVDMSPFTfWKNSKL  
PNDITGRGPQILMIAVFTLTGAVVLLLLVALLMLRKYRKDYELRQKKW SHIPPENIFPLE  
TNETNHVSLKIDDDKRRDTIQR LRQCKYDKKRVI LKDLKHNDGNfTEKQKIELNKL LQID  
YYNLTKfYGTVKLDTMfIGVIEYCERGS LREVLNDTISYPDGTFMDWEfKISVLYDIAKG  
MSYLHSSKTEVHGRLKSTNCVVD SRMVVKITDFGCNSILPPKDLWTAPEHLRQANISQK  
GDVYSYGI IAEQI ILRKETfYTLSCRDRNEKIFRVENSNGMKPFRPDLFLETAE EKELEV  
YLLVKNcWEEDPEKRPDFKKIETTLAKIFGLFHDQKNESYMDTLIRRLQLYSRNLEHLVE  
ERTQLYKAERDRADRLNFMLLPRLVVKSLKEKGfVEPELYEEVTIYfSDIVGfTTICKYS  
TPMEVVDMLNDIYKfSDHIVDHDVYKVETIGDAYMVASGLPKRNGNRHAIDIAKMALEI  
LSFMGTfELEHLPLPIWIRIGVHSGPCAAGVVG IKMPRYCLFGDTVNTASRMESTGLPL  
RIHVSGSTIAILKRTECQFLYEV RGETYLGKRGNETTYWLTGMKDQKFNLPTPPTVENQQ  
RLQAEfSDMIANS LQKRQAAGIRSQKPRRVASYKKGTLEYLQLNTTDKESTYf

>sp|Q96GX5|GWL\_HUMAN Serine/threonine-protein kinase greatwall OS=Homo sapiens GN=MASTL  
PE=1 SV=1

MDPTAGSKKEPGGAATEEGVNRIAVPKPPSIEEFsIVKPI SRGAFGKVYL GQGKGKLYA  
VKVVKKADMINKNMTHQVQAERDALALSKSPFIVHLyYSLQSANNVYLVMEYLIGGDVKS  
LLHIYGYfDEEMAVKYI SEVALALDYLHRHGI IHRDLKPDNMLISNEGHIKLTDFGLSKV  
TLNRDINMMDILTTPSMAKPRQDYSRTPGQVLSLISSLGfNTPIAEKNQDPANILSACL S  
ETSQLSQGLVCPMSVDQKDTTPYSSKLLKSCLETVASNPGMPVKCLTSNLLQSRKRLATS  
SASSQSHTfISSVEECHSSPKWEKDCQESDEALGPTMMSWNAVEKLCAKSANAIE TKGF  
NKKDLELALSPIHNSALPTTGRSCVNLAKKCFSGEVSWEAVELDVNNINMDTDTSQLGF  
HQSNGWAVDSGGISEEHLGKRSLKRNfELVDSSPCKKI IQNKKTCVEYKHNEMTNCYTNQ  
NTGLTVEVQDLKLSVHKSQQND CANKENIVNSfTDKQQTPEKLPIPMIAKNLMCELDEDC  
EKNSKR DYLSSSFLCSDDDRASKNISMNSDSSFPGISIMESPLESQPLSDRSIKESSFE  
ESNIEDPLIVTPDCQEKTS PKGVENPAVQESNQKMLGPPEVLKTLASKRNAVAFRSFNS

HINASNNSEPSRMNTSLDAMDISCAYSGSYPMAITPTQKRRSCMPHQQTNPQIKSGTPY  
RTPKSVRRGVAPVDDGRILGTPDYLAPELLLGRAHGPAVDWWALGVCLFEFLTGIPIPFND  
ETPQQVFQNILKRDIPWPEGEEKLSDNAQSAVEILLTIDDTKRAGMKELKRHPLFSDVDW  
ENLQHQTMPFIPQPDDETDTSYFEARNTAQHLTVSGFSL

>sp|AOPJZ3|GXLT2\_HUMAN Glucoside xylosyltransferase 2 OS=Homo sapiens GN=GXILT2 PE=2 SV=2  
MKLRSKAAALLLLALAALLLALLSLRAGRAEPPALPARPASAPQRHPAPVPARWPGPGAL  
PGASPGVRRRRPPRPRPRAGRRGAARLEKLARRPGEPSFQAVLPPELWIHLAVVACGNR  
LEETLVMKSAVLFSHRKIQFHIFTEDSLKPEFDKQLRQWPDSYTKKFEHRIYPITFSVG  
NPQEWKKLFKPCAAQRLFLPVILKDVSLLYVDTDVLFLRPVDDIWKLLRLFNSTQLAAM  
APEHEIPKIGWYSRFARHPFYGSAGVNSGVMLMNLTRIRSTQFKNSMIPTGLAWEDMLYP  
LYQKYKNAITWGDQDLLNIIFYFNPECLYVFPCQWNYRPDHCMYGSNCREAEHEGVSVLH  
GNRGVYHDDKQPTFRALYEAIRDFFQDNLFQSMYYPLQLKFLETVHTLCGRIPQVFLKQ  
IEKTMKRAYEKHVIHVGPNQMH

>sp|P16403|H12\_HUMAN Histone H1.2 OS=Homo sapiens GN=HIST1H1C PE=1 SV=2  
MSETAPAAPAAAPAEKAPVKKAAKKAGGTPRKASGPPVSELITKAVAASKERSGVSLA  
ALKKALAAAGYDVEKNNSRIKLGKSLVSKGTLVQTKGTGASGSFKLNKKAASGEAKPKV  
KKAGGTPKPKPVGAACKPKKAAGGATPKKSAKKTPKKAKKPAAATVTKKVAKSPKKAKVA  
KPKKAASAAKAVKPKAAKPKVVKPKKAAPKKK

>sp|P16402|H13\_HUMAN Histone H1.3 OS=Homo sapiens GN=HIST1H1D PE=1 SV=2  
MSETAPLAPTIPAPAEKTPVKKKAKKAGATAGKRKASGPPVSELITKAVAASKERSGVSL  
AALKALAAAGYDVEKNNSRIKLGKSLVSKGTLVQTKGTGASGSFKLNKKAASGEKPK  
AKKAGAAKPRKPAGAAKPKKVAGAATPKKSIKKTPKKVKKPATAAGTKKVAKSARKVKT  
PQPKAAKSPAKAKAPKPKAAKPKSGKPKVTAKKAAPKKK

>sp|P10412|H14\_HUMAN Histone H1.4 OS=Homo sapiens GN=HIST1H1E PE=1 SV=2  
MSETAPAAPAAPAEKTPVKKKARKSAGAAKRKASGPPVSELITKAVAASKERSGVSLA  
ALKKALAAAGYDVEKNNSRIKLGKSLVSKGTLVQTKGTGASGSFKLNKKAASGEAKPKA  
KKAGAAKAKKPAGAAKPKKATGAATPKKSAKKTPKKAKKPAAAAGAKKAKSPKKAKAAK  
PKKAPKSPAKAKAVKPKAAKPKTAKPKAAKPKKAAAKKK

>sp|Q4G0G2|H1AS1\_HUMAN Putative uncharacterized protein H1FX-AS1 OS=Homo sapiens GN=H1FX-  
AS1 PE=5 SV=1  
MGWEQETQKSRPWNQVEGRQPGHDPEQDTCSTSPFAMSKSSLRPPKKLMPCASCTAAEPD  
GFPWLCYSHSWKCLTESSGHPGRMDVVYPLLYRWGN

>sp|Q75WM6|H1FNT\_HUMAN Testis-specific H1 histone OS=Homo sapiens GN=H1FNT PE=2 SV=3  
MEQALTGEAQSRWPRRGSGGAMAEAPGPSGESRHSATQLPAEKTVGGPSRGCSVVLRV  
SQLVLQATSTHKGLTLAALKKELRNAGYEVRRKSGRHEAPRGQAKATLLRVSGSDAAGYF  
RVWKVPKPRRKPGRARQEEGTRAPWRTPAAPRSSRRRRQPLRKAARKAREVWRRNARAKA  
KANARARRTRRARPRAKEPPCARAKEEAGATAADEGRGQAVKEDTTPRSGDKRRSSKPR  
EEKQEPKPAQRTIQ

>sp|Q8IUE6|H2A2B\_HUMAN Histone H2A type 2-B OS=Homo sapiens GN=HIST2H2AB PE=1 SV=3  
MSGRGKQGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAHVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAVRNDEELNKLGGVTIAQGGVLPNIQAVLLPKK  
TESHKPGKNK

>sp|O75715|GPX5\_HUMAN Epididymal secretory glutathione peroxidase OS=Homo sapiens GN=GPX5  
PE=1 SV=1

MTTQLRVVHLLPLLLACFVQTSFKQEKMKMDCHKDEKGTIYDYEIALNKNEYVSFKQYV  
GKHILFVNVATYCGLTAQYPELNALQEELKPYGLVVLGFPCNQFGKQEPGDNKEILPGLK  
YVRPGGGFVPSFQLFEKGDVNGEKEQKVFSFLKHSCPHPSEILGTFKSISWDPVKVHDIR  
WNFEKFLVGPDGIPVMRWSHRATVSSVKTDILAYLKQFKTK

>sp|Q13322|GRB10\_HUMAN Growth factor receptor-bound protein 10 OS=Homo sapiens GN=GRB10  
PE=1 SV=2

MALAGCPDSFLHHPYYQDKVEQTPRSQQDPAGPGLPAQSDRLANHQEDDVLLEALVNDMN  
ASLESLSACSMQSDTVPLLQNGQHARSQPRASGPPRSIQPVSPRQRVQRSQPVHILAV  
RRLQEEDQQFRTSSLPAIPNPFPELCGPGSPPVLTGSLPPSQAAAKQDVKFSEDGTSK  
VVEILADMTARDLCQLLVYKSHCVDDNSWTLVEHHPHLGLERCLEDHELVVQVESTMASE  
SKFLFRKNYAKYEFFKNPMNFFPEQMVWTCQQSNGSQTQLLQNFNLSSSCPEIQGFLHVK  
ELGKKSWKLYVCLRRSGLYCSTKGSKEPRHLQLLADLEDSNIFSLIAGRKQYNAPTDH  
GLCIKPNKVRNETKELRLLCAEDEQTRTCWMTAFRLLKYGMLLYQNYRIPQQRKALLSPF  
STPVRVSSENSLVAMDFSGQTRVIENPAEASAALEEGHAWKRSTRMNILGSQSPLHP  
STLSTVIHRTQHWFHGRISREESHRIKQQGLVDGLFLLRDSQSNPKAFVLTLCHHQKIK  
NFQILPCEDDGQTFSLDDGNTKFSDLIQLVDFYQLNKGVLPCCLKHHHCIRVAL

>sp|Q9C091|GRB1L\_HUMAN GREB1-like protein OS=Homo sapiens GN=GREB1L PE=2 SV=2

MGNSYAGQLKSARFEEALHNSIEASLRCSVVRPIFSQLYLDPDQHPFSSADVPKPKVED  
LDKDLVNRYTQNGSLDFSNNLTVNEMEDDEDDEEMSDSNSPPIPYSQKPAPEGSCCTDGF  
CQAGKDLRLVSLCMEQIDIPAGFLLVGAKSPNLPEHILVCAVDKRFPLDDHGKNALLGFS  
GNCIGCGERGFRYFTEFSNHINLKLTTQPKKQKHLKYLVLRSSQGVLSKGPLICWKECRS  
RQSSASCHSIKPSSSVSSTVTPENGTTNGYKSGFTQTDANGNSSHGKGSASSSTPAHT  
GNYSLSRPSYASGDQATMFIISGPPKKRHRGWYPGSPLPQPGLVVPVPTVRPLSRTEPLL  
SAPVPQTPLTGILQPRPIPAGETVIVPENLLSNSGVRPVILIGYGTLPYFYGNVGDIVVS  
PLLNCYKIPQLENKDLEKLGLTGSQFLSVENMILLTIQYLVRLGPDQVPLREEFEQIML  
KAMQEFTLRERALQIGAQCVPVSPGQLPWLARLIASVSQDLVHVVTQNSLAEGISETLR  
TLSEMRHYQRLPDYVVVICASKIRGNEFCVVVLGQHQSRALESMLTTEFLKEISYELI  
TGKVSFLASHFKTTSGLDLDLLEKMQRRGDSVVTDFDGLNECVSPQEAAMIPTQN  
LDLDNETFHIYQPQLTVARKLLSQVCAIADSGSQSLDLGHFSKVDFIIVPRSEVLVQQT  
LQRIQSGVLVDLGLENGTAHQRAEKYVVRDNEIQTKFEVFMRRVKQNPYTLFVLVHD  
NSHVELTSVISGSLSHSEPSHGLADRVINCREVLEAFNLLVLQVSSFPLYTLQTQQSRISS  
SNEVHWIQLDTGEDVGCEEKLYFGLSEYSKSLQWGITSPLLRCDETFCEKMVNTLLERYPR  
LHSMVVRCYLLIQQYSEALMALTTMASLRDHSTPETLSIMDDLISPGKNKSGRGHMLII  
RVPSVQLAMLAKEKRLQEVDRKLGQYRFEIILGNPATELSVATHFVARLKSWRGNEPEEW  
IPRTYQDLGLPCIVILTGKDPGETFPRSLKYCDLRLIDSSYLTRTALEQEVGLACCYV  
SKEVIRGPTVALDLSGKEQERAASSENDSDELLIDLERPQSNSSAVTGTSGSIMENGVS  
SSTADKSQKQSLTPSFQSPATSLGLDEGVSASSAGAGAGETLKQECDSLGPQMASSTSK  
PSSSSSGPRTLWPWGPPIRGCRGPQAALPPVILSKAAYSLLGSQKSGKLPSSSSLLPHA  
DVAWVSSLRPLLNDMSSEEQSLYYRQWTLARQHHADYSNQLDPASGTRNFHPRRLLTG  
PPQVGKTGSYLQFLRILFRMLIRLLEVDVYDEEINTDHNESSEVSQSEGEPPWDIESFS  
KMPFDVSVHDPKYSLSMLVYTEKLAGVKQEVIKESKVEEPRKRETVSIMLTKYAAAYNTFH  
HCEQCRQYMDFTSASQMSDSTLHAFTFSSSMLGEEVQLYFIIPKSKESHFVFSKQKGHLE  
SMRLPLVSDKNLNAVKSPIFTPSSGRHEHGLLNLFHAMEGISHLHLLVVKEYEMPLYRKY  
WPNHIMLVLPGMFNNAGVGAARFLIKELSYHNLELERNRLEELGIKRCVWPFIVMMDDS

CVLWNIHSVQEPSSQPMIEVGVSSKNVSLKTVLQHIATPKIVHYAILGIKWSSKLTSSQSLKAPFSRCHVHDFILLNTDLTQNVQYDFNRYFCEDADFNLRNNSGLLICRFNNFSLMKKHVQVGGQRDFIIKPKIMVSESLAPILPLQYICAPDSEHTLLAAPAQFLEKFLQHASYKLPKAIHNFRSPVLAIDCYLNIGPEVAICYISSRPHSSNVNCEGVFFSGLLLYLCDSFVGA DLKKFKFLKGATLCVICQDRSSLRQTIVRLELEDEWQFRLRDEFQTANSSDDKPLYFLTGRHV

>sp|P62993|GRB2\_HUMAN Growth factor receptor-bound protein 2 OS=Homo sapiens GN=GRB2 PE=1 SV=1

MEAIKAYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFI PKNYIEMKPHPWFFGKIPRAKAEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDAGAGKYFLWVVKFNSLNLVDYHRSTSVSRNQIFLRDIEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTGMFPRNYVTPVNRNV

>sp|P30550|GRPR\_HUMAN Gastrin-releasing peptide receptor OS=Homo sapiens GN=GRPR PE=2 SV=1

MALNDCFLNLEVDHFMHCNISSHSADLPVNDDWSHPGILYVIPAVYGVIIILIGLIGNITLIKIFCTVKSMRNPNFLFISSLALGDLLLLITCAPVDASRYLADRWLFGRI GCKLIPFIQLTSVGSVSFTLTALSADRYKAIVRPMDIQASHALMKICLKAAFIWIISMLLAIP EAVFSDLHPFH EESTNQTFISCAPYPHSNELHPKIHSMASFLVFYVIPLSIIISVYYYFIAKNLIQSAYNLPVEGNIHVKKQIESRKRLAKTVLVFVGLFAFCWLPNHVIYLYRSYHYSEVDTSMLHFVTSICARLLAFTNSCVNPFALYLLSKSFRKQFNTQLCCQPGLIIRSHSTGRSTTCMTSLKSTNPSVATFSLINGNICHERYV

>sp|Q12849|GRSF1\_HUMAN G-rich sequence factor 1 OS=Homo sapiens GN=GRSF1 PE=1 SV=3

MAGTRWVLGALLRGCGCNCSSCRRTGAACLPFYSAAGSIPSGVSGRRRLLLLLGAAAAAASQTRGLQTGPVPPGRLAGPPAVATSAAAAAASYSALRASLLPQSLAAAAAVPTRSYSQESKTTYLEDLPPPPEYELAPSKLEEEVDDVFLIRAQGLPWCTMEDVLNFFSDCRIRNGENGIHFLNLRDGRKRGDALIEMESEQDVQKALEKHRMYMGQRYVEVYEINNEDVDALMKSLQVKSSPVVNDGVVRLRGLPYSCNEKDIVDFFAGLNIVDITFVMDYRGRKRTGEAYVQFEPEMANQALLKHREEIGNRYIEIFPSRRNEVRTHVGSYKGGKIASFPTAKYITEPEMVFEHEVNEDIQPMTAFESEKEIELPKEVPEKLPEAADFGTTSSLHFVHMRGLPFQANAQDIINFAPLPKPV RITMEYSSSGKATGEADVHFETHEDAVAAMLKDRSHVHHRYIELFLNSCPKGGK

>sp|O15499|GSC2\_HUMAN Homeobox protein goosecoid-2 OS=Homo sapiens GN=GSC2 PE=2 SV=1

MAAAAGGAASRRGAGRPCFPIEHILSSLPERSLPARAACPPQAGRQSPAKPEEPGAPEAAPCACCCTCGPRAAPCGPPEAAAGLGARLAWPLRLGPAVPLSLGAPAGGSGALPGAVGPGSQRRTRRHRTIFSEEQLQALEALFVQNQYPDVSTRERLAGRIRLREERVEVWFKNRRAKWRHQKRASASARLLPGVKKSPKGGC

>sp|Q14687|GSE1\_HUMAN Genetic suppressor element 1 OS=Homo sapiens GN=GSE1 PE=1 SV=3

MKGMSHEPKSPSLGMLSTATRTTATVNPLTPSPLNGALVPSGSPATSSALSQAAPSSSFAAALRLKAKQAEPRGSSLSSESPVSSPATNHSSPASTPKRVPMGPIIVPPGGHSPSTPPVVTIAPTCTVNGVWRSESRQDAGSRSSSGGRERLIVEPPLPQEKAGGPAIPSHLLSTPYPFGLSPSSVVQDSRFPLNLQRPVHHVPPSTVTEDYLSRFRPYHTTDDLRMSSLPPLGLDPATAAAAYYHPSYLAPHFPHPAFRMDDSYCLSALRSPFYIPTPGSLPPLHPSAMHLHLSGVRYPPELSHSSLAALHSERMSGLSAERLQMD EELRREREREREREREREADREREKEREREREKERERERELERQREQRAREKELLA AKALEPSFLPVAELHGLRGHATEERGKPS EQLTPTRA EKLKDAGLQAPKPVQHPLHPVTPHHTVPSLISNHGIFSLPSS

SAATALLIQRTEEEKWLARQRRLRQEKEDRQSQVSEFRQQVLEQHLDMGRPPVPAAEAH  
RPESTRPGPNRHEPGGRDPPQHFGGPPPLISPKPQLHAAPTALWNPVSLMDNTLETRRA  
ESLSLHSHPAAFEPSRQAAVPLVKVERVFCPEKAEEGPRKREPAPLDKYQPPPPPPREGG  
SLEHQPFPLPGPGPFLAELEKSTQTILGQQRASLPQAATFGELSGPLKPGSPYRPPVPRAP  
DPAYIYDEFLQRRRLVSKLDLEERRRREAQEKGYYYDLDDSYDESDEEEVRAHLRCVAE  
QPPLKLDTSSEKLEFLQLFGLTTQQQKEELVAQKRRKRRRMLRERSPPPTIQSKRQTPS  
PRLALSTRYSPDEMNNSPNFEEKKKFLTIFNLTHISAEKRKDKERLVEMLRAMKQKALSA  
AVADSLTNSPRDSPAVSLSEPATQQASLDVEKPVGVAASLSDIPKAAEPGKLEQVRPQEL  
SRVQELAPASGEKARLSEAPGGKKSLSMLHYIRGAAPKDIPVPLSHSTNGKSKPWEPPVA  
EEFAHQFHESVLQSTQKALKHKGSVAVLSAEQNHKVDTSVHYNIPELQSSSRAPPPQHN  
GQQEPPTARKGPPTQELDRDSEEEEEDEDEDGEDEEEVPKRKWQIEAVFEAYQEHIIEEQ  
NLERQVLQTQCRRLERHYSLSLTAEQLSHSVAELRSQKQKMSERERLQAELDHLRKCL  
ALPAMHWPRGYLKGYPR

>sp|POCG29|GST2\_HUMAN Glutathione S-transferase theta-2 OS=Homo sapiens GN=GSTT2 PE=1  
SV=1

MGLELFLDLVSQPSRAVYIFAKKNGIPELRTVDLVKGQHKSKLEFLQINSLGKLPTLKDG  
DFILTESSAILIYLSCKYQTPDHWYPSDLQARARVHEYLGWHADCIRGTFGIPLWVQVLG  
PLIGVQVPKEKVERNRTAMDQALQWLEDKFLGDRPFLAGQVTLADLMALEELMQPVALG  
YELFEGRPRLAAWRGRVEAFLGAELCQEAHSIILSILEQAACKTLTPSPPEAYQAMLLRI  
ARIP

>sp|Q8NEC7|GSTCD\_HUMAN Glutathione S-transferase C-terminal domain-containing protein  
OS=Homo sapiens GN=GSTCD PE=1 SV=2

MKAIKKSLTEEEYLDFSHQTEGCIFPLHTSVTLFLLSYCDCKIFKICLVVTKEVSRDS  
SLLRDDLIDQVEIQIISRQELPPIVQNCCLPAVVERSDNFCRAGLAVLRHIIQKSYEAD  
PLKKELLELLGFKKTKLACAQVSWTRLCELTIPLAIEFLRESSDQPPTIPVEILQLE  
KKLSEPVVRVHNDKLRQKQKQKADGVGPPLTKGAKSKVHTQETSEGLDSSSKSLELK  
VAFSKLTVQEEPATTNREPSHIRKAKASDLPPLEHVFAEGLYFTLADIVLLPCIHHLVI  
ISRKFSEKLVEFPLLASWYQRIQEVPGVKTAASKCGIQFLHLPKLLTSTEQHPNLCEVP  
GVEEQSDPLFIGGPRPTMAKLMEKGIEVMFSPHPCPTWTLDWNVLPAVSPKEGKMSSDR  
ALRKQQQLNNLVYVTNQAQKPGDRIVDFCSGGGHVGVLAHMLPSCQVTLIENKELSLIR  
AKKRSEDELGLSNIWFIQANMEYFTGMFNIGVALHACGVATDMVIEHCIKTRASFTVCPCC  
YGFIQNTSKFNFPSKQEFKKTLSYKEHMILCRFADQTAVQLPPQRRLLGKQCMCLVDLDR  
ARAAEECGYSVQVISMEPESCSPKNNMIVGVPI

>sp|Q5T4B2|GT253\_HUMAN Probable inactive glycosyltransferase 25 family member 3 OS=Homo  
sapiens GN=CERCAM PE=2 SV=1

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ARMALWCATDHNVDNTTEMLQEWLAAGDDYAAVVRPEGEPRFYPPDEEGPKHWTKERHQ  
FLMELKQEALTFARNWGADYILFADTDNLTNNQTLRLLMGQGLPVVAPMLDSQTYYSNF  
WCGITPQGYRRRTAEYFPTKNRQRRCFRVPMVHSTFLASLRAEGADQLAFYPPHPNYTW  
PFDDIIVFAYACQAAGVSVHVCNEHRYGYMNVVKSHQGLEDERVNFIIHLILEALVDGPR  
MQASAHVTRPSKRPSKIGFDEVFVISLARRPDRRERMLASLWEMEISGRVVDVAVDGWMLN  
SSAIRNLGVDLLPGYQDPYSGRTLTKGEVGCFLSHYSIWEEVVARGLARVLVFEDDVRFE  
SNFRGRLERLMEDVEAEKLSWDLIYLGKQVNPKEKETAVEGLPGLVVAGYSYWTLAYALR  
LAGARKLLASQPLRRMLPVDEFLPIMFDQHPNEQYKAHFWPRDLVAFSAQPLLAAPTHYA

GDAEWLSDTETSSPWDDSGRLISWSGSQKTLRSPRLDLTGSSGHS LQPQPRDEL

>sp|000178|GTPB1\_HUMAN GTP-binding protein 1 OS=Homo sapiens GN=GTPBP1 PE=1 SV=3

MATERSRSAMDSPVPASMFAPESPSPAARAAAAAARLHGGFSDCSDEGEALNGEPELD  
LTSKLVLSPTSEQYDSSLRQMWERMDEGCGETIYVIGQSGDTEYGLSEADMEASYATV  
KSMAEQIEADVILLRERQEAGGRVRYDLVRKRVGDNDLFLEVRVAVVGNVDAGKSTLLGVL  
THGELDNRGRFARQKLFRHKHEIESGRTSSVGN DILGFDSEGNVVKPDSHGGSLEWTKI  
CEKSTKVITFIDLAGHEKYLKTTVFGMTGHLPDFCMLMVGSNAGIVGMTKEHLGLALALN  
VPVFVVVTKIDMCPANILQETLKLQRLLKSPGCRKIPVLVQSKDDVIVTASNFSSESMC  
PIFQISNVTGENDLLKMFNLNLSPTS YREEEPAEFQIDDTYSVPGVGTVVSGTTLRGL  
IKLNDTLLLGPDLGNFLSIAVKS IHRKMPVKEVRGGQTASFALKKIKRSSIRKGMVMV  
SPRLNPQASWEFEAEILVLHHP TISPRYQAMVHCGSIRQTATILSMDKDCLRTGDKATV  
HFRFIKTPEYLHIDQRLVFREGRTKAVGTITKLLQTTNNSPMNSKPQQIKMQSTKKGPLT  
KRDEGGPSGGPAVGAPPPGDEASSVGAGQPAASSNLQPQPKPSSGRRRGGRHKVKSQG  
ACVTPASGC

>sp|Q969Y2|GTPB3\_HUMAN tRNA modification GPase GTPBP3, mitochondrial OS=Homo sapiens  
GN=GTPBP3 PE=1 SV=2

MWRGLWTLAAQAARGPRRLCTRSSGAPAPGSGATIFALSSGQGRCGIAVIRTSGPASGH  
ALRILTAPRDLPLARHASLRLLSDPRSGEPLDRALVLWFPGPQSFTGEDCVEFHVHGGPA  
VVSGVLQALGSVPGLRPAEAGEFTRRAFANGKLNLTEVEGLADLIHAETEAQRRQALRQL  
DGELGHLCRGWAETLTKALAHVEAYIDFGEDDNLEEGVLEQADIEVRALQVALGAHLRDA  
RRGQRLRSGVHVVTGPPNAGKSSLVNLSRKPVSIVSPEPGTTRDVLETPVDLAGFPVL  
LSDTAGLREGVGPVEQEGVRRARERLEQADLILAMLDASDLASPSSCNFLATVVASVGAQ  
SPSDSSQRLLLVLNKS DLLSPEGPGPGDLP PHLLLSCLTGEGLDGLLEALRKELAAVCG  
DPSTDPPLLTRARHQHHLQGCLDALGHYKQSKDLALAAEALRVARGHLTRLTGGGGTEEI  
LDIIFQDFCVGK

>sp|Q6PXP3|GTR7\_HUMAN Solute carrier family 2, facilitated glucose transporter member 7  
OS=Homo sapiens GN=SLC2A7 PE=2 SV=2

MENKEAGTPPPIPSREGRLQPTLLLATLSAAGSAFQYGYNLSVVNTPHKVFKSFYNETY  
FERHATFMDGKMLLLWSCTVSMFPLGGLLGSLLVGLLDSCGRKGTLLINNIFAIIPAI  
LMGVSKVAKAFELIVFSRVVLGVCAGISYSALPMYLGELAPKNLRGMVGTMTVEFVIVGV  
FLAQIFSLQAILGNPAGWPVLLALTGVPALLQLLTLPFFPESPRYS LIQKGDEATARQAL  
RRLRGHTDMEAELEDMAEARAERAEGHLSVLHL CALRSLRWQLLSIIVLMAGQQLSGIN  
AINYYADTIYTSAGVEAAHSQYVTVGSGVVNIVMTITS AVLVERLGRRHLLLAGYGICGS  
ACLVLTVVLLFQNRVPELSYLGII CVFAYIAGHSIGPSVPVSVRTEIFLQSSRRAAFMV  
DGAVHWLTNFIIGFLFPSIQEAIGAYSFII FAGICLLTAIYIYVVIPETKGKTFVEINRI  
FAKRN RVKLPEEKEETIDAGPPTASPAKETSF

>sp|Q9NYZ3|GTSE1\_HUMAN G2 and S phase-expressed protein 1 OS=Homo sapiens GN=GTSE1 PE=1  
SV=3

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PLPTSESPFAWSPLAGEKFVEVYKEAHL LALHIESSSRNQAQAAPEDPRSQGVVERFIQ  
ESKLKINLFEKEKEMKKSPTS LKRETYLSDSPLL GPPVGEPRLLASSPALPSSGAQARL  
TRAPGPPHSAHALPRESCTAHAASQAATQRKPGTKLLLPRAASVRGRSIPGAAEKPKEI  
PASPSRTKIPAEKESHRDVLDPKPAPGAVN VPAAGSHLGQ GKRAIPVPNKLGLKKTLLKA  
PGSTSNLARKSSSGPVWSGASSACTSPAVGKAKSSEFASIPANSSRPLSNISKSGRMGPA

MLRPALPAGPVGASSWQAKRVDVSELAEEQLTAPPSASPTQPQTPEGGGQWLNSSCAWSE  
SSQLNKTRSIRRRDSCLNSKTKVMPTPTNQFKIPKFSIGDSPDSSTPKLSRAQRPQSCTS  
VGRVTVHSTPVRSSGPAPQSLLSAWRVSALPTPASRRCSGLPPMTPKTMPRAVGSPLCV  
PARRRSSEPRKNSAMRTEPTRESNRKTD SRLVDVSPDRGSPPSRVPQALNFSPEESDSTF  
SKSTATEVAREEAKPGGDAAPSEALLVDIKLEPLAVTPDAASQPLIDLPLIDFCDTPEAH  
VAVGSESRLIDLMTNTPDMNKNVAKPSPVVGQLIDLSSPLIQLSPEADKENVDSPLLKF  
>sp|P22492|H1T\_HUMAN Histone H1t OS=Homo sapiens GN=HIST1H1T PE=2 SV=4  
MSETVPAASASAGVAAMEKLPTKKRGRKPAGLISASRKVPNLSVSKLITEALSVSQERVG  
MSLVALKKALAAAGYDVEKNNSRIKLSLKS LVNKGILVQTRGTGASGSFKLSKKVIPKST  
RSKAKKSVSAKTKKLVLSRDSKSPKTAKTNKRAKKPRATTPKTVRSGRKAKGAKGKQQQK  
SPVKARASKSKLTQHHEVNVKATSKK

>sp|P04908|H2A1B\_HUMAN Histone H2A type 1-B/E OS=Homo sapiens GN=HIST1H2AB PE=1 SV=2  
MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLA AVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKL LGKV TIAQGGVLPNIQAVLLPKK  
TESHHKAKGK

>sp|Q99878|H2A1J\_HUMAN Histone H2A type 1-J OS=Homo sapiens GN=HIST1H2AJ PE=1 SV=3  
MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLA AVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKL LGKV TIAQGGVLPNIQAVLLPKK  
TESHHKTK

>sp|POC0S8|H2A1\_HUMAN Histone H2A type 1 OS=Homo sapiens GN=HIST1H2AG PE=1 SV=2  
MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLA AVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKL LGKV TIAQGGVLPNIQAVLLPKK  
TESHHKAKGK

>sp|POC0S5|H2AZ\_HUMAN Histone H2A.Z OS=Homo sapiens GN=H2AFZ PE=1 SV=2  
MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRIHRHLKSRTTSHGRVGATAAVYSA AILE  
YLTAEVLELAGNASKDLKVKRITPRHLQLAIRGDEELSLIKATIAGGGVIPHIHKS LIG  
KKGQQKT V

>sp|P69891|HBG1\_HUMAN Hemoglobin subunit gamma-1 OS=Homo sapiens GN=HBG1 PE=1 SV=2  
MGHFTTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPK  
VKAHGKKVLTSLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFG  
KEFTPEVQASWQKMTAVASALSSRYH

>sp|Q9Y450|HBS1L\_HUMAN HBS1-like protein OS=Homo sapiens GN=HBS1L PE=1 SV=1  
MARHRNVRGYNYDEDFEDDDL YGQSVEDDYCISPSTAAQFIYSRRDKPSVEPV E EYDYED  
LKESNSVSNHQLSGFDQARLYSCLDHMREVLGDAVPDEILIEAVLKNKFDVQKALSGVL  
EQDRVQSLKDKNEATVSTGKIAKGKPVDSQTSRSESEIVPKVAKMTVSGKKQTMGFVPG  
VSSEENGHSFHTPQKGPIEDIASSDVLETASKSANPPHTIQASEEQSSTPAPVKKSGK  
LRQQIDVKAELEKRQGGKQLLNLVVIGHVDAGKSTLMGHMLYLLGNINKRTMHKYEQESK  
KAGKASFAYAVWLDETGEERERGV TMDVGMTKFETTTKVITLMDAPGHKDFIPNMITGAA  
QADVAVLVVDASRGEFEAGFETGGQ TREHGLLVRS LGVTQLAVAVNKMDQVNWQ QERFQE  
ITGKLGHFLKQAGFKESDVGF IPTSGLSGENLITRSQSSELTWKYKGLCLLEQIDSFKPP  
QRSIDKPFRLCVSDVFKDQGS GFCITGKIEAGYIQTGDRLLAMPNETCTVKGITLHDEP  
VDWAAAGDHVSLTLVGMDI IKINVGCIFCGPKVPIKACTRFRARILIFNIEIPITKGFPV  
LLHYQTVSEPAVIKRLISVLNKSTGEVTKKKPKFLTKGQNALVELQTQRP IALELYKDFK  
ELGRFMLRYGGSTIAAGVVTEIKE

>sp|Q9BXC0|HCAR1\_HUMAN Hydroxycarboxylic acid receptor 1 OS=Homo sapiens GN=HCAR1 PE=1 SV=1

MYNGSCCRIEGDTISQVMPPLLIVAFVLGALGNGVALCGFCFHMKTWKPSTVYLFNLAVA  
DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVAADRYFKVHP  
HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM  
FQLEFFMPLGIILFCSFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR  
LYFLWTVPSACDPSVHGALHITLSFTYMNSMLDPLVYFSSPSFPKFFYNKLKICSLKPK  
QPGHSKTQRPEEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH

>sp|O60741|HCN1\_HUMAN Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1 OS=Homo sapiens GN=HCN1 PE=1 SV=3

MEGGGKPNSSNSRDDGNSVFPKASATGAGPAAAEKRLGTPPGGGAGAKEHGNSVCFK  
VDGGGGGGGGGGGEEPPAGGFEDAEGPRRQYGFMRQFTSMLQPGVNKFSLRMFGSQKAV  
EKEQERVKTAGFWIIHPYSDFRFYWDLIMLIMVGNLVIIPVGITFFTEQTTTPWIIIFNV  
ASDTVFLDLIMNFRGTGNEDSSEIILDPKVIKMNLYKSWFVVDFISSIPVDYIFLIVE  
KGMDEYVYKTARALRIVRFTKILSLRLRLSRLIRYIHQWEEIFHMTYDLASAVVRIFN  
LIGMMLLLCHWDGCLQFLVPLLQDFPPDCWVSLNEMVNDSWGKQYSYALFKAMSHMLCIG  
YGAQAPVSMSDLWITMLSMIVGATCYAMFVGHATALIQSLDSSRRQYQEKYQVEQYMSF  
HKLPADMRQKIHDYIEHRYQGKIFDEENILNELNDPLREEIVNFNCRKLVATMPLFANAD  
PNFVTAMLSKLRFEVFQPGDYIIREGAVGKKMYFIQHGAVGVITKSSKEMKLTGGSYFGE  
ICLLTKGRRTASVRADTYCRLYSLSVDNFNEVLEEYPMRRRAFETVAIDRLDRIGKNSI  
LLQKFQKDLNTGVFNQENEILKQIVKHDREMVQAIAPINYPQMTTLNSTSTTTPTSRM  
RTQSPPVYTATSLSHSNLHSPSPSTQTPQPSAILSPCSYTTAVCSPPVQSPLAARTFHYA  
SPTASQLSLMQQPQQVQQSQPPQTQPPQSPQPQTPGSSTPKNEVHKSTQALHNTNLT  
REVRPLSASQPSLPHEVSTLISRPHPTVGESLASIPQPVTAVPGTGLQAGGRSTVPQRVT  
LFRQMSSGAIPPNRGVPPAPPPPAALPRESSSVLNTDPDAEKPRFASNL

>sp|Q6MZN7|HCP5\_HUMAN HLA class I histocompatibility antigen protein P5 OS=Homo sapiens GN=HCP5 PE=2 SV=1

MLLRMSEHRNEALGNYLEMRLKSSFLRGLGSWKSNNPLRLGGWTILLTLTMGQGEPPGPQG  
DPWVPHELLLPSCDSSSHASSWGSISITCAWRGGSSSHPLVSGHILSNPVAAVMCSSM  
GTHLSPFKGTLL

>sp|Q13547|HDAC1\_HUMAN Histone deacetylase 1 OS=Homo sapiens GN=HDAC1 PE=1 SV=1

MAQTQGTTRRKVCYYYDGDVGNYYYQGHPMKPHRIRMTHNLLNLYGLYRKMEIYRPHKAN  
AEEMTKYHSDDYIKFLRSIRPDNMSEYSKMQRFNVGEDCPVFDGLFEFCQLSTGGSVAS  
AVKLNKQQTDIAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKYHQRVLYIDIDIHHG  
DGVEEAFYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYAVNYPLRDGIDDESYEAI  
FKPVMSKVMEMFQPSAVVLQCGSDSLSGDRLGCFNLTIKGHAKCVEFVKSFNLPMLMLGG  
GGYTIRNVARCWYETAVAALDTEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNTNEYLE  
KIKQRLFENLRMLPHAPGVQMQAIPEDAIPESGDEDEDDPKRISICSSDKRIACEEEF  
SDSEEEGEGGRKNSSNFKAKRVKTEDEKEKDPEEKKEVTEEEKTKEEKPEAKGVKEEVK  
LA

>sp|O15379|HDAC3\_HUMAN Histone deacetylase 3 OS=Homo sapiens GN=HDAC3 PE=1 SV=2

MAKTVAIFYDPDVGNFHYGAGHPMKPHRLALTHSLVLHYGLYKKMIVFKPYQASQDHMC  
RHSEDIYDFLQRVSPTNMQGFTKSLNAFNVGDDCPVFPGLFEFCRYTGASLQGATQLNN  
KICDIAINWAGGLHHAKKFEASGFCYVNDIVIGILELLKYHPRVLYIDIDIHHGDGVQEA



FYLTDRVMTVSFHKYGNFYFFPGTGDMEVGAESGRYYCLNVPLRDGIDDQSYKHLFQPVI  
NQVVDIFYQPTCIVLQCGADSLGCDRLGCFNLSIRGHGECVEYVKSFNIPLLVLGGGGYTV  
RNVARCWTYETSLLEEAISEELPYSEYFEYFAPDFTLHPDVSTRIENQNSRQYLDQIRQ  
TIFENLKMLNHAPSVQIHDVPADLLTYDRTDEADAEERGPEENYSRPEAPNEFYDGDHDN  
DKESDVEI

>sp|P56524|HDAC4\_HUMAN Histone deacetylase 4 OS=Homo sapiens GN=HDAC4 PE=1 SV=3  
MSSQSHPDGLSGRDQPVELLNPARVNHPSTVDVATALPLQVAPSAVPMDLRLDHQFSLP  
VAEPALREQQLQQELLALKKQKQIQRQILIAEFQRQHEQLSRQHEAQLHEHIKQQQEMLA  
MKHQELLEHRKLERHRQELEKQHQREKQLQQLKNKEKGKESAVASTEVMKMLQEFVL  
NKKKALAHRLNHCISSDPRYWGKTQHSSLDQSSPPQSGVSTSYNHPVLGMYDAKDDFP  
LRKTASEPNLKLRSRLKQKVAERRSSPLLRRKDGPPVTALKKRPLDVTDSACSSAPGSGP  
SSPNNSSGSVSAENGIAPAVPSIPAETSLAHLVAREGSAAPLPLYTSPSLPNITLGLPA  
TGPSAGTAGQQDAERLTLPALQQRLSLFPGTHLTPYLSTSPLERDGGAAHSPLLQHMVLL  
EQPPAQAPLVTGLGALPLHAQSLVGADRVSPSIHKLQRHRPLGRTQSAPLPQNAQALQHL  
VIQQQHQQFLEKHKQQFQQQQLQMNKIIPKPSEPARQPESHPEETEEELREHQALLDEPY  
LDRLPGQKEAHAQAGVQVKQEPIDESDEEEAEPPREVEPGQRQPSEQELLFRQQALLLEQQ  
RIHQLRNYQASMEAAGIPVSFGGHRPLSRAQSSPASATFPVSVQEPPTKPRFTTGLVYDT  
LMLKHQCTCGSSSSHPEHAGRIQSIWSRLQETGLRGKCECIRGRKATLEELQTVHSEAHT  
LLYGTNPLNRQKLDKSKLLGSLASVVRPLPCGGVGVDSDTIWNEVHSAGAARLAVGCVVE  
LVFKVATGELKNGFAVVRPPGHHAEESTPMGFCYFNSVAVAAKLLQQLSVSKILIVDWD  
VHHGNGTQQAFYSDPSVLYMSLHRYDDGNFFPGSGAPDEVGTGPGVGFNVNMAFTGGGLDP  
PMGDAEYLAAFRTVVMPIASEFAPDVVLVSSGFDAVEGHPTPLGGYNLSARCFGYLTKQL  
MGLAGGRIVLALEGGHDLTAICDASEACVSALLGNELDPLPEKVLQQRPNANAVRSMKVV  
MEIHSKYWRCLQRTTSTAGRSLIEAQTCENEEAETVTAMASLSVGKPAEKRPDEEPMEE  
EPPL

>sp|Q9UBN7|HDAC6\_HUMAN Histone deacetylase 6 OS=Homo sapiens GN=HDAC6 PE=1 SV=2  
MTSTGQDSTTTRQRRSRQNPQSPQDSSVTSKRNIKKGAVPRSIPLAEVKKKGKMKKLG  
QAMEEDLIVGLQGMDLNLEAEALAGTGLVLDEQLNEFHCLWDDSFPEGPERLHAIKEQLI  
QEGLLDRCVSFQARFAEKEELMLVHSLEYIDLMTTQYMNELRLVADTYDSVYLHPNS  
YSCACLASGSVLRVLDAVLGAELRNGMAIIRPPGHHAQHSLMDGYCMFNHVAARYAQQ  
KHRIRRVLIVDWDVHHGQGTQFTFDQDPSVLYFSIHRYEQGRFWPHLKASNWSTTGFGQG  
QGYTINVPWNQVGMRDADYIAAFLHVLLPVALEFQPQLVLAAGFDALQGDPKGEMAATP  
AGFAQLTHLLMGLAGGKLILSLEGGYNLRALAEGVSASLHTLLGDPCPMLESPGAPCRSA  
QASVSCALEALEPFEVFLVRSTETVERDNMEEDNVEESEEPPVEPVLILTWPVLQSR  
TGLVYDQNMNHCNLWDSHHPEVPQRILRIMCRLEELGLAGRCLTLTPRPATEAELLTCH  
SAEYVGHLRATEKMKTREHRESSNFDSIYICPSTFACAQLATGAACRLVEAVLSGEVLN  
GAAVVRPPGHHAEQDAACGFCFFNSVAVAAARHAQTISGHALRILIVDWDVHHGNGTQHMF  
EDDPSVLYVSLHRYDHGTFPPMGDEGASSQIGRAAGTGFTVNVAVNGPRMGDADYLAAWH  
RLVLPPIAYEFNPVLVVSAGFDAARGDPLGGCQVSPEGYAHLTHLLMGLASGRIILILEG  
GYNLTISSESMAACTRSLGDPPLLTLPRLPLSGALASITETIQVHRRYWRSLRVMKVE  
DREGPSSSKLVTKKAPQPAKPRLAERMTTREKKVLEAGMGKVTSASFGEESTPGQTNSSET  
AVVALTQDQPSEAATGGATLAQTISEAAIGGAMLGQTTSEEAVGGATPDQTTSEETVGGA  
ILDQTTSEDAVGGATLGQTTSEEAVGGATLAQTTSEAAMEGATLDQTTSEEAPGGTELIQ  
TPLASSTDHQTPTSPVQGTTPQISPSTLIGSLRTLELGSESQGASESQAPGEENLLGEA

AGGQDMADSMMLMQGSRGLTDQAIFYAVTPLPWCPHLVAVCPIPAAGLDVTQPCGDCGTIQ  
ENWVCLSCYQVYCGRYINGHMLQHHGNSGHPLVLSYIDLSAWCYQCAYVHHQALLDVKN  
IAHQNKFGEDMPHPH

>sp|Q9H0R4|HDHD2\_HUMAN Haloacid dehalogenase-like hydrolase domain-containing protein 2  
OS=Homo sapiens GN=HDHD2 PE=1 SV=1

MAACRALKAVLVDLSGTLHIEDAAVPGAQEALKRLRGASVIIRFVTNTTKESKQDLLERL  
RKLEFDISEDEIFTSLTAARSLLERKQVRPMLLVDDRALPDFKGIQTSDPNAVVMGLAPE  
HFHYQILNQAFRLLLDGAPLIAIHKARYYKRKDGALGPGPFVTALEYATDTKATVVGKP  
EKTFFLEALRGTGCEPEEAVMIGDDCRDDVGAQDVGMGLILVKTGKYRASDEEKINPPP  
YLTCEFPFAVDHILQHLL

>sp|Q9P2P5|HECW2\_HUMAN E3 ubiquitin-protein ligase HECW2 OS=Homo sapiens GN=HECW2 PE=1  
SV=2

MASSAREHLLFVRRRNPQMRYTLSPENLQSLAAQSSMPENMTLQRANSDDLVTSESRSS  
LTASMYEYTLGQAQNLIIIFWDIKEEVDPSDWIGLYHIDENSPANFWD SKNRGVTGTQKGQ  
IVWRIEPPYPFMEPEIKICFKYYHGISGALRATTPCITVKNPAVMMGAEGMEGGASGNLH  
SRKLVSF T L S D L R A V G L K K G M F F N P D P Y L K M S I Q P G K K S S F P T C A H H G Q E R R S T I I S N T T  
NPIWHREKYSFFALLTDVLEIEIKDKFAKSRPIIKRFLGKLTIPVQRLLERQAIGDQMLS  
YNLGRRLPADHVSGYLQFKVEVTSSVHEDASPEAVGTILGVNSVNGDLGSPSDDDEDMPGS  
HHDSQVCSNGPVSEDSAADGTPKHSFRTSS T L E I D T E E L T S T S S R T S P P R G R Q D S L N D Y L  
DAIEHNGHSRPGTATCSERSMGASPKLRSSFP T D T R L N A M L H I D S D E E D H E F Q Q D L G Y P S  
S L E E E G L I M F S R A S R A D D G S L T S Q T K L E D N P V E N E E A S T H E A A S F E D K P E N L P E L A E S S  
LPAGPAPEEGEGGPEPQPSADQGS A E L C G S Q E V D Q P T S G A D T G T S D A S G G S R R A V S E T E S  
LDQGSEPSQVSSETEPSDPARTESVSEASTRPEGESDLECADSSCNESVTTQLSSVDTRC  
SSLESARFPETPAFSSQEEEDGACAAEPTSSGPAEGSQESVCTAGSLPVVQVPSGEDEGP  
GAESATVPDQEEELGEVWQRRGSLEGAAAAAESPPQEEGSAGEAAGTCEGATAQEEGATGG  
SQANGHQPLRSLPSVRQDVSRVQVRDEALPPNWEARIDSHGRIFYVDHVNRTTTWQRPTA  
PPAPQVLQRSNSIQMEQLNRRYQSIRRTMTNERPEENTNAIDGAGEEADFHQASADFRR  
ENILPHSTSRSRITLLLQSPPVKFLISPEFFTVLHSNPSAYRMFTNNTCLKHMITKVRRD  
THHFERYQHNRDLVGFLNMFANKQLELPRGWEMKHDHQGAFFVDHNSRTTTFIDPRLPL  
QSSRPTSALVHRQHLTRQRSHSAGEVGEDSRHAGPPVLP R P S S T F N T V S R P Q Y Q D M V P V A  
YNDKIVAFLRQPNIFEILQERQPDLTRNHSLEKIQFIRTEGTPGLVRLSSDADLVMLLS  
L F E E E I M S Y V P P H A L L H P S Y C Q S P R G S P V S S P Q N S P G T Q R A N A R A P A P Y K R D F E A K L R N F  
YRKLETKGYGQPGKCLKLIIRRDHLLDAFNQIMGYSRKDLQRNKLYVTFVGEGLDYSG  
PSREFFFLVSRELFPYGLFEYSANDTYTVQISPMSAFVDNHHEWFRFSGRILGLALIH  
QYLLDAFFTRPFYKALLRILCDLSLEYLDEEFHQSLQWMKDNDIHDILDLTFTVNEEVF  
GQITERELKPGGANIPVTEKNKKEYIERMVKWRIERG V V Q Q T E S L V R G F Y E V V D A R L V S V  
FDARELELVIAGTAEIDLSWRNNT E Y R G G Y H D N H I V I R W F W A A V E R F N N E Q R L R L L Q F V  
TGTSSIPYEGFASLRGSNGPRRFCVEKWGKITALPRAHTCFNRLDLPYPSPSMLYEKLL  
TAVEETSTFGLE

>sp|P42694|HELZ\_HUMAN Probable helicase with zinc finger domain OS=Homo sapiens GN=HELZ  
PE=1 SV=2

MEDRRAEKSCEQACESLKRQDYEMALKHCTEALLSLGQYSMA D F T G P C P L E I E R I K I E S L  
LYRIASFLLQKNYVQAEDCDRHVLGEGLAGEDAFRAVLCCMLKGLQPVSTILAKSLT  
GESLNGMVTKDLTRLKTLLSETETATSNALSGYHVEDLDEGSCNGWHFRPPPRGITSSEE

YTLCKRFLEQGICRYGAQCTSAHSQEELAEWQKRYASRLIKLKQQNENKQLSGSYMETLI  
EKWMNSLSPEKVLSECIEGVKVEHNPDLSVTVSTKKSHQWTWFALTCKPARMLYRVALLY  
DAHRPHFSIIAISAGDSTTQVSQEVPEQCQEWIGGKMAQNGLDHYVYKVGIAFNTEIFGT  
FRQTIIVFDGLEPVLQMVRMIDAATEDLEYLMHAKQQLVTTAKRWDSSSKTIIDFEPNE  
TTDLEKSLIRYQIPLSADQLFTQSVLDKSLTKSNYQSRHDLLEYIEEIAQYKEISKFNL  
KVQLQILASFMLTGVS GGAKYAQNGQLFGRFKLTETLSEDTLAGRLVMTKVNAVYLLPVP  
KQKLVTQGTKEKVYEATIEEKTEKEYIFLRLSRECCEELNLRPDCDTQVELQFQLNRLPL  
CEMHYALDRIKDNGLVFPDISMTPTIPWSPNRQWDEQLDPRLNAKQKEAVLAITTPLATQ  
LPPVLIIGPYGTGKTFTLAQAVKHILQQQETRILICTHSNSAADLYIKDYLHPYVEAGNP  
QARPLRVYFRNRWVKTVPVHHQYCLISSAHSTFQMPQKEDILKHRVVVTLNTSQYLCQ  
LDLEPGFFTHILLDEAAQAMECETIMPLALATQNTRIVLAGDHMQSPFVYSEFARERNL  
HVSLLDRLYEHYPAEFPCRILLCENYRSHEAIINYTSELFYEGKLMAKQPAHKDFYPL  
TFFTARGEDVQEKNSTAFYNNAEVFEVVERVEELRRKWVPAWGKLDGSGIGVVTYPADQV  
FRIRAE LRKKRLSDVNVERVLNVQKGQFRVLFSTVTRHTCKHKQTPIKKKEQLLEDST  
EDLDYGFLSNYKLLNTAITRAQSLVAVVGDPIALCSIGRCRKFWERFIALCHENSSLHGI  
TFEQIKAQLEALELKKTYVLNPLAPEFIPRALRLQHSGSTNKQQSPKGS LHHTQNDH  
FQNDGIVQPNPSVLIGNPIRAYTPPPPLGHPNLGKSPSPVQRIDPHTGTSILYVPAVYG  
GNVMSVPLPVPWTGYQGRFAVDPRIITHQAAMAYNMNLLQTHGRGSPIPYGLGHHPVT  
IGQPQNQHKEKDQHEQNRNGKSDTNNSGPEINKIRTPEKKPTEPKQVDLESNPQNRSPES  
RPSVVPSTKFKPRKDNLNPRHINLPLPAPHAQYAIIPNRHFHPLPQLPRPPFPIPPQHTLL  
NQQQNNLPEQPNQIPPQPNQVQQQSQLNQPPQPPPPQLSPAYQAGPNNAFFNSAVAHNP  
QSPPAEAVIPEQQPPPMLEQHSPLRAIAQPGPILPSHLNSFIDENPSGLPIGEALDRIH  
GSVALETLRQQQARFQQWSEHHAFLSQGSAPYPHHHHPHLQHLQPPLGLHQPVRADWK  
LTSSAEDEVETYSRFQDLIRELSHRDQSETRELAEMPPPPQSRLQYRQVQSRSPPAVPS  
PPSSTDHSSHSFNFDNSRDIEVASNPAPFQRLPPQIFNSPFSPLSEHLAPPPLKYLAPD  
GAWTFANLQQNHLMGPGFPGYPLPLPHRPPQNPVFVQIQNHQHAIGQEPFHPLSSRTVSSS  
SLPSLEEYEPGRGPRPLYQRRISSSSVQPCSEEVSTPQDSLAQCKELQDHSNQSSFNFSS  
PESWNTTSSTPYQNI PCNGSSRTAQPRELIAPPKTVKPPEDQLKSENLEVSSSFNYSVL  
QHLGQFPPLMPNKQIAESANSSSPQSSAGGKPAMSYASALRAPPKPRPPPEQAKKSSDPL  
SLFQELSLGSSSGSNGFYSYFK

>sp|Q92896|GSLG1\_HUMAN Golgi apparatus protein 1 OS=Homo sapiens GN=GLG1 PE=1 SV=2

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QQLPQLPQSSQLQQQQQQQQQQQPPPPPPFAGGPPARRGGAGAGGWKLAEEEESCRE  
DVTRVCPKHTWSNNLAVLECLQDVREPENEISSDCNHLWNYKLNLTDPKFESVAREVC  
KSTITEIKECADEPVGKGYMVSLVDHRGNITEYQCHQYITKMTAIIIFSDYRLICGFMD  
CKNDINILKCGSIRLGEKDAHSQGEVVSCLEKGLVKEAEEREPKIQVSELCKKAILRVAE  
LSSDDFHLDRLHYACRDDRRFCENTQAGEGRVYKCLFNHKFEESMSEKCREALTTRQK  
LIAQDYKVSYS LAKSCKSDLKKYRCNVENLPRSREARLSYLLMCLESAVHRGRQVSSECQ  
GEMLDYRRMLMEDFSLSPEIILSCRGEIEHHCSGLHRKGRTLHCLMKVVRGEKGNLGMNC  
QQALQTLIQETDPGADYRIDRALNEACESVIQTACKHIRSGDPMILSCLMEHLYTEKMVE  
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YRTEEQGRRLSRECREAQRILHQRAMDVKLDPALQDKCLIDLGKWCSEKTETGQELECL  
QDHLDDLVEECRDIVGNL TELESEDIQIEALLMRACEPIIQNFCHDVADNQIDSGDLMEC  
LIQNKHQKDMNEKCAIGVTHFQLVQMKDFRFSYKFKMACKEDVLKLCPNIKKKVDVVICL

STTVRNDTLQEAKEHRVSLKRRQLRVEELEMTEDIRLEPDLYEACKSDIKNFCSAVQYG  
NAQIIIECLKENKKQLSTRCHQKVFKLQETEMMDPELDYTLMRVCKQMIKRFCEADSKTM  
LQCLKQNKNSELMDPKCKQMITKRQITQNTDYRLNPMLRKACKADIPKFCHGILTKAKDD  
SELEGQVISCLKLRYADQRLSSDCEDQIRIIIQESALDYRLDPQLQLHCSDEISSLCAEE  
AAAEQQTGVVEECLKVNLLKIKTELCKKEVLNMLKESKADIFVDPVLHTACALDIKHHCA  
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>sp|Q02846|GUC2D\_HUMAN Retinal guanylyl cyclase 1 OS=Homo sapiens GN=GUCY2D PE=1 SV=2

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VSGLVGPVNPAACRPAELLAEEAGIALVPWGCPWTAEGTTAPAVTPAADALYALLRAFG  
WARVALVTAPQDLWEAGRSLSTALRARGLPVASVTSMEPLDLSGAREALRKVRDGPVRT  
AVIMVMHSVLLGGEEQRYLLEAAEELGLTDGSLVFLPFDTIHYALSPGPEALAALANSSQ  
LRRHADAVLTLTRHCPSEGSVLDSLRRARERELPSDLNLQQVSPLFGTIYDAVFLARG  
VAEAAAAAGGRWVSGAAVARHIRDAQVPGFCGDLGGDEEPPFVLLDTDAAGDRLFATYML  
DPARGSFSLSAGTRMHFPRGGSAPGPDPSWFDPNNICGGGLEPGLVFLGFLLVGMGLAG  
AFLAHYVRHRLHMQMVSGPNKIILTVDDITFLHPHGGTSRKVAQGSRSSLGARMSDIR  
SGPSQHLDSPNIGVYEGDRVWLKKFPGDQHIAIRPATKTAFSKLQELRHENVALYLGLFL  
ARGAEGPAALWEGNLAVVSEHCTRGSLQDLAQREIKLDWMFKSSLLLDLIKIRYLHHR  
GVAHGRLKSRNCIVDGRFVLKITDHGHGRLLAQKVLPEPPRAEDQLWTAPELLRDPAL  
RRGTLAGDVFLSAIIMQEVVCRSAPYAMLELTPEEVVQVRSPPLCRPLVSMDQAPVEC  
ILLMKQCWAEQPELRPSMDHTFDLFDKNINKGRKTNIIDSMLRMLEQYSSNLEDLIRERTE  
ELELEKQKTDRLLTQMLPPSVAEALKTGTPVEPEYFEQVTLYFSDIVGFTTISAMSEPIE  
VVDLLNDLYTLFDAIIGSHDVYKVTIGDAYMVASGLPQRNGQRHAAEIANMSLDILSAV  
GTFMRHMEVPVRIIRIGLHSGPCVAGVVGLTMPRYCLFGDTVNTASRMESTGLPYRIHV  
NLSTVGILRALDSGYQVELRGRTELKKGGAEDTFWLVGRRGFNKPPIKPPDLQPGSSNHG  
ISLQEIPPERRRRLKLEKARPGQFS

>sp|Q8N7I0|GVQW1\_HUMAN Protein GVQW1 OS=Homo sapiens GN=GVQW1 PE=2 SV=1

MPNFLGLHRRASFTVLCFWSTADVLNASGPRRQWHPLASCSSWSRPQSQGSGTPGVLCKTG  
MGREPIPETQCHFANSMSLHVSVPYFGNSPNISNFFRWSLALSPRQWCDLGSQPPSPR  
FKGFSCSLSPSSWDYRRAPSPANFCILVEMGFHHVQADLELLTSADLPTSASQSAGITG  
VSHHAWPQTL SLLLY

>sp|Q4G148|GXLT1\_HUMAN Glucoside xylosyltransferase 1 OS=Homo sapiens GN=GXLT1 PE=1 SV=2

MRRYL RVVVL CVACGFCSLLYAFSQLAVSLEEGTGGGGGKQAAVASWLAGGGRGAVRGA  
GVAGPAAHPGVSDRCKDFSLCYWNPYWMLPSDVCGMNCFWEAAFRYSLKIQPVEKMHLAV  
VACGERLEETMTMLKSIIIFSILPLQFHIFAEDQLHHSFKGRLDNWSFLQTFNYTLYPIT  
FPSENAAEWKKLFKPCASQRLFLPLILKEVDSLLYVDTDILFLRPVDDIWSLLKKFNSTQ  
IAAMAPEHEEPRIGWYNRFARHPYYGKTGVNSGVMLNMTRMRKYFKNDMTTVRLQWGD  
ILMPLLLKKYKLNITWGDQDLLNIVFFHNPESLFVFPCQWNYRDPDHCYGSNCQEAEEGGI  
FILHGNGRGVYHDDKQPAFRAVYEALRNCSFEDDNIRSLLKPLELELQKTVHTYCGKIYKI  
FIKQLAKSVDRYARSPKEK

>sp|P07305|H10\_HUMAN Histone H1.0 OS=Homo sapiens GN=H1F0 PE=1 SV=3

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMI VAAIQAENRAGSSRSIQKYIKSHYKV  
GENADSIKLSIKRLVTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFKKTKKEIKKVATP

KKASKPKKAASKAPTCKPKATPVKKAKKKLAATPKKAKKPKTVKAKPVKASKPKKAKPVK  
PKAKSSAKRAGKKK

>sp|P16401|H15\_HUMAN Histone H1.5 OS=Homo sapiens GN=HIST1H1B PE=1 SV=3

MSETAPAETATPAPVEKSPAKKKATKKAAGAGAAKRKATGPPVSELITKAVAASKERNGL  
SLAALKKALAAGGYDVEKNNSRIKLGLKSLVSKGTLVQTKGTGASGSFKLNKKAASGEAK  
PKAKKAGAAKAKKPAGATPKKAKKAAGAKKAVKKTTPKKAKKPAAAGVKKVAKSPKKAKAA  
AKPKKATKSPAKPKAVKPKAAKPKAAKPKAAKPKAAKAKKAAAKKK

>sp|O14756|H17B6\_HUMAN 17-beta-hydroxysteroid dehydrogenase type 6 OS=Homo sapiens  
GN=HSD17B6 PE=1 SV=1

MWLYLAAFVGLYLLHWYRERQVVSHLQDKYVFITGCDSGFGNLLARQLDARGLRVLAAC  
LTEKGAEQLRGQTSRLETVTLDVTKMESIAAATQWVKEHVGDRGLWGLVNNAGILTPIT  
LCEWLNTEDSMNMLKVNLIQVITLSMLPLVRRARGRIVNVSSILGRVAFFVGGYCVSK  
YGVEAFSDILRREIQHFGVKISIVEPGYFRTGMTNMTQSLERMKQSWKEAPKHIKETYGQ  
QYFDALYNIMKEGLNLCSTNLNLVTDCEHALTSVHPRTSYSAGWDAKFFFIPLSYLP  
LADYILTRSWPKPAQAV

>sp|Q96KK5|H2A1H\_HUMAN Histone H2A type 1-H OS=Homo sapiens GN=HIST1H2AH PE=1 SV=3

MSGRGKQGKKARAKATRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAHVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKK  
TESHHKAK

>sp|P62807|H2B1C\_HUMAN Histone H2B type 1-C/E/F/G/I OS=Homo sapiens GN=HIST1H2BC PE=1  
SV=4

MPEPAKSAPAPKKGSKAVTKAQKKGKKRKRSRKESYSVYVYKVLQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSSK

>sp|Q6NXT2|H3C\_HUMAN Histone H3.3C OS=Homo sapiens GN=H3F3C PE=1 SV=3

MARTKQTARKSTGGKAPRKQLATKAARKSTPSTCGVKPHRYRPGTVALREIRRYQKSTEL  
LIRKLPFQRLVREIAQDFNTDLRFQSAAVGALQEASEAYLVGLEDNLCAIHAKRVTIM  
PKDIQLARRIRGERA

>sp|P69892|HBG2\_HUMAN Hemoglobin subunit gamma-2 OS=Homo sapiens GN=HBG2 PE=1 SV=2

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPK  
VKAHGKKVLTSLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFG  
KEFTPEVQASWQKMTGVSALSSRYH

>sp|Q9UL51|HCN2\_HUMAN Potassium/sodium hyperpolarization-activated cyclic nucleotide-  
gated channel 2 OS=Homo sapiens GN=HCN2 PE=1 SV=3

MDARGGGGRPGESPGATPAPGPPPPPPAPPQQPPPPPPPPAPPPGPGPAPPQHPPRAEA  
LPPEAADEGGPRGRLRSRDSSCGRPGTPGAASTAKGSPNGECGRGEPQCSPAGPEGPARG  
PKVSFSCRGAAASGPAPGPGPAEEAGSEEAGPAGEPRGSQASFMQRQFGALLQPGVNFSL  
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TAPWIVFNVVSDTFFLMDLVLFNRTGIVIEDNTEIILDPEKIKKKYLRTWVVDVSSIP  
VDYIFLIVEKGIDSEVYKTARALRIVRFTKILSLLRLLRLSRLIRYIHQWEEIFHMTYDL  
ASAVMRICNLISMMLLLCHWDGCLQFLVPMLQDFPRNCWVSINGMVNHSWSELYSFALFK  
AMSHMLCIGYGRQAPESMTDIWLTMLSMIVGATCYAMFIGHATALIQSLDSSRRQYQEKY  
KQVEQYMSFHKLPAEFRQKIHDIYEHRYQGKMFDEDSILGELNGPLREEIVNFNCRKLVA  
SMPLFANADPNFVTAMLTKLKFEVFPQGDYIIIREGTIGKKMYFIQHGVVSVLTGKNKEMK

LSDGSYFGEICLLTRGRRTASVRADTYCRLYSLSVDNFNEVLEEYPMRRRAFETVAIDRL  
DRIGKKNILLSHKVQHDLNSGVFNQENAI IQEIVKYDREMVQQAELGQRVGLFPPPPPP  
PQVTSIAIATLQAAAAMSFQVARPLVGPLALGSPRLVRRPPPGPAPAAAASGPPPPASP  
PGAPASPRAPRTSPYGLPAAPLAGPALPARRLSRASRPLSASQPSLPHGAPGPAASTRP  
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>sp|Q9UQL6|HDAC5\_HUMAN Histone deacetylase 5 OS=Homo sapiens GN=HDAC5 PE=1 SV=2

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QEMLAAKQQQEMLAAKRQEQLEQQRQREQQRQEELKQRLEQQLLILRNKEKSKESAIAS  
TEVKLRLQEFLLSKSKEPTPGGLNHSLPQHPKCWGAHHASLDQSSPPQSGPPGTPPSYKL  
PLPGPYDSRDDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRRKDGTVISTFKKRAVEI  
TGAGPGASSVCNSAPGSGPSSPNSSHSTIAENGFTGSVPNIPTMLPQHRALPLDSSPNQ  
FSLYTSPSLPNISLGLQATVTVTNSHLTASPKLSTQQEAERQALQSLRQGGTLTGKFMST  
SSIPGCLLGVALEGDGSPhGHASLLQHVLLEQARQQSTLIAVPLHGQSPLVTGERVATS  
MRTVGKLP RHRPLSRTQSSPLPQSPQALQQLVMQQQHQQFLEKQKQQQLQLGKILTKTGE  
LPRQPTTHPEETEEELTEQQEVLLGEGALTMPREGSTESESTQEDLEEEDEEDDGGEEED  
CIQVKDEEGESGAEEGPDLEEPGAGYKKLFSDAQPLQPLQVYQAPLSLATVPHQALGRTQ  
SSPAAPGGMKSPDPQPVKHLFTTG VVYDTFMLKHQCMCGNTHVHPEHAGRIQSIWSRLQE  
TGLLSKCERIRGRKATLDEIQT VHSEYHTLLYGTSPLN RQKLD SKKLLGPISQMYAVLP  
CGGIGVSDTVWNEMHSSSAVRMAVGCLLELAFKVAAGELKNGFAIIRPPGHAEESTAM  
GFCFFNSVAITAKLLQKQKLVNGKVLIVDWDIHHGNGTQQAFYNDPSVLYISLHRYDNGNF  
FPGSGAPEEVGGPGVGYNVNAWTGGVDPPIGDVEYLTAFRTVVMPAHEFSPDVVLVS  
AGFDAVEGHLSPGGYSVTARCFGHLTRQLMTLAGGRVLALEGGHDLTAICDASEACVS  
ALLSVELQPLDEAVLQKPNINAVATLEKVIETQSKHWSCVQKFAAGLGRSLREAQAGET  
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>sp|Q9UKV0|HDAC9\_HUMAN Histone deacetylase 9 OS=Homo sapiens GN=HDAC9 PE=1 SV=2

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EQQLPPLRGKDRGRERAVASTE VKQLQEFLLSKSATKDTPTNGKNHSVSRHPKLWYTAA  
HHTSLDQSSPPLSGTSPSYKYTLPGAQDAKDDFPLRKTASEPNLKVRSRLKQKVAERRSS  
PLLRRKDGNVVT SFKKRMFEVTESSVSSSSPGSGPSSPNNGPTGSVTENETSVLPPTPHA  
EQMVSQQRILIHEDSMNLLSLYTSPSLPNITLGLPAVPSQLNASNSLKEKQKCETQTLRQ  
GVPLPGQYGGIPASSSHPHVTLEGKPPNSSHQALLQHLLLKEQMRQQKLLVAGGVPLHP  
QSPLATKERISPGIRGTHKLPRHRPLNRTQSAPLPQSTLAQLVIQQQHQQFLEKQKQYQQ  
QIHMNKLLSKSIEQLKQPGSHLEAEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLG  
QVGAVKVKEEPVDSDEDAQIQEMESGEQA AFMQPFLEPTHTRALSVRQAPLA AVGMDGL  
EKHRLVSRTHSSPAASVLPHPAMDRPLQPGSATGIA YDPLMLKHQCVCGNSTTHPEHAGR  
IQSIWSRLQETGLLNKCERIQGRKASLEEIQLVHSEHHSLLYGTNPLDGQKLDPRILLGD  
DSQKFFSSLPCGGLGVSDTIWNELHSSGAARMAVGCVIELASKVASGELKNGFAVVRPP  
GHAEESTAMGFCFFNSVAITAKYLRDQLNISKILIVDLDVHHGNGTQQAFYADPSILYI  
SLHRYDEGNFFPGSGAPNEVGTLGEGYNINIAWTGGLDPPMGDVEYLEAFRTIVKPVAK  
EFDPMVLVSAGFDALEGHTPPLGGYKVTAKCFGHLTKQLMTLADGRVLALEGGHDLTA  
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>sp|Q7Z4H3|HDDC2\_HUMAN HD domain-containing protein 2 OS=Homo sapiens GN=HDDC2 PE=1 SV=1

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KDDRLNKDRCVRLALVHDMAECIVGDIAPADNIPKEEKHRRREEEAMKQITQLLPEDLRKE  
LYELWEEYETQSSAEAKFVKQLDQCEMILQASEYEDLEHKPGRLQDFYDSTAGKFNHPEI  
VQLVSELEAERSTNIAAAASEPHS

>sp|Q7Z4V5|HDGR2\_HUMAN Hepatoma-derived growth factor-related protein 2 OS=Homo sapiens  
GN=HDGFRP2 PE=1 SV=1

MPHAFKPGDLVFAKMKGYPHWPARIDDIADGAVKPPPKNYPIFFFGTHETAFLGPKDLFP  
YDKCKDKYGKPNKRKGFNEGLWEIQNNPHASYSAPPPVSSSDSEAPEANPADGSDADEDD  
EDRGVMAVTAVTATAASDRMESDSDSDKSSDNSGLKRKTPALKMSVSKRARKASSDLDQA  
SVSPSEEEENSESSSESEKTSQDFTPEKKA AVRAPRRGPLGGRKKKKAPSASDSDSKADS  
DGAKPEPVAMARSASSSSSSSSSSSDSVSVKKPPRGRKPAEKPLPKPRGRKPKPERPPSS  
SSSDSDSDEVDRISEWKRRDEARRRELEARRRREQEEELRRLREQEKEEKERRRERADRG  
EAERGGSGSGDELREDDEPVKKRGRKGRGRGPPSSSDSEPEAELEREAKKS AKKPQSSS  
TEPARKPGQKEKVRPPEEKQAKPVKVERTKRSEGFMDRKVEKKKEPSVEEKLQKLHS  
EIKFALKVDSPDKRCLNALEELGTLQVTSQILQKNTDVVATLKKIRRYKANKDVMKAA  
EVYTRLKSRVLGPKIEAVQKVNKAGMEKEKAEKLAGELAGEEAPQEKAEDKPSTDLSA  
PVNGEATSQKGESAEDEKEHEEGRDSEEGPRCGSSEDLHDSVREGPDLDPRPGSDRQERERA  
RGDSEALDEES

>sp|P42858|HD\_HUMAN Huntingtin OS=Homo sapiens GN=HTT PE=1 SV=2

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RSLRAALWRFaelahlVRPQKCRPYLVNLLPCLTRTSKRPEESVQETLAAAVPKIMASFG  
NFANDNEIKVLLKAFIANLKSSSPTIRRTAAGSAVSICQHSRRTQYFYSWLLNVLLGLLV  
PVEDEHSTLLILGVLLTLRYLVPLLQQQVKDTSLKGSFGVTRKEMEVSPSAEQLVQVYEL  
TLHHTQHGDHNVVTGALELLQQLFRTPPELLQTLTAVGGIGQLTAAKEESGGRSRSGSI  
VELIAGGGSSCSPVLSRKQKGKVLGEEEALEDDSESRSDVSSSALTASVKDEISGELAA  
SSGVSTPGSAGHDII TEQPRSQHTLQADSVDLASCDLTSSATDGDEEDILSHSSSQVSAV  
PSDPAMDLDNDGTQASSPISDSSQTTEGPDSAVTPSDSSEIVLDGTDNQYLGLQIGQPQD  
EDEEATGILPDEASEAFRNSSMALQQAHLKKNMSHCRQPSDSSVDKFVLRDEATEPGDQE  
NKPCRIGKDIGQSTDDSDAPLVHCVRLSASFLLTGGKNVLPDRDVRVSVKALALSCVG  
AAVALHPESFFSKLYKVLDTTEYPPEEQYVSDILNYIDHGDQPVRGATAILCGTLICSIL  
SRSRFHVGDWMTIRTLTGNTFSLADCIPLLRKTLKDESSVTCKLACTAVRNCVMSLCSS  
SYSELGLQLIIDVLTNRSSYWLVRTELLETLAEIDFRLVSFLEAKAENLHRGAHHYTGL  
LKLQERVLNNVVIHLLGDEDPVRHVAAASLIRLVPKLFYKCDQGQADPVVAVARDQSSV  
YLKLLMHETQPPSHFSVSTITRIYRGYNLLPSITDVTMENNLSRVIAAVSHELITSTTRA  
LTFGCCEALCLLSTAFPVCIWSLGHGCVPLSASDESRSCTVGMATMILTLLSSAWFP  
LDLSAHQDALILAGNLLAASAPKSLRSSWASEEEANPAATKQEEVWPALGDRAVPMVEQ  
LFSHLLKVINICAHVLDDVAPGPAIKAALPSLTNPPSLSPIRRKGKEKEPGEQASVPLSP  
KKGSEASAASRQSDTSGPVTTSSSSLSGFYHLPSYKLHDVLRKATHANYKVTLDLQNST  
EKFGGFLRSALDVLSQILELATLQDIGKCVEEILGYLKSCFSREPMMATVCVQQLKTLF  
GTNLASQFDGLSSNPSKSGRAQLGSSSVRPGLYHYCFMAPYTHFTQALADASLRNMVQ  
AEQENDTSGWFDVLQKVSTQLKTNLTSVTKNRADKNAIHNHIRLFEPLVIKALKQYTTTT  
CVQLQKQVLDLLAQLVQLRVNYCLLSDQVFIGFVLKQFEYIEVGQFRESEAIIPNIFFF

LVLLSYERYHSKQIIIGIPKIIQLCDGIMASGRKAVTHAIPALQPIVHDLFVLRGTNKADA  
GKELETQKEVVVSMMLRLIQYHQVLEMFILVLQQCHKENEDKWKRLSRQIADIILPMLAK  
QQMHIDSHEALGVLNLTLEILAPSSLRPVDMLLRSMFVTPNTMASVSTVQLWISGILAIL  
RVLISQSTEDIVLSRIQELSFSPYLISCTVINRLRDGDSTSTLEEHSEKQIKNLPEETF  
SRFLLQLVGILLEDIVTKQLKVEMSEQHTFYCQELGTLLMCLIHIFKSGMFRRITAAAT  
RLFRSDGCGGSFYTLDSLNLRRSMITTHPALVLLWCQILLLVNHTDYRWVAEVQQTPKR  
HLSSTKLLSPQMSGEEEDSDLAAGLGMCNREIVRRGALILFCDYVCQNLHDSEHLTWLI  
VNHIQDLISLSHEPPVQDFISAVHRNSAASGLFIQAIQSRCENLSTPTMLKKTLCLEGI  
HLSQSGAVLTLYVDRLLCTPFRVLARMVDILACRRVEMLLAANLQSSMAQLPMEELNRIQ  
EYLQSSGLAQRHQRLYSLLDRFRLSTMQDSLSPSPVSSHPLDGDGHVSLETVSPDKDWY  
VHLVKSQCWTRSDSALLEGAELVNRIPAEDMNAFMNSEFNLSLLAPCLSLGMSEISGGQ  
KSALFEAAREVTLARVSGTVQQLPAVHHVFQPELPAEPAAVWSKLNDFGDAALYQSLPT  
LARALAQYLVVSKLPSHLHLPPEKEKDIVKFVVATLEALSWHLIHEQIPLSLDLQAGLD  
CCCLALQLPGLWSVVSSTEFVTHACSLIYCVHFILEAVAVQPGEQLSPERRTNTPKAIS  
EEEEVDPTNQPKYITAACEMVAEMVESLQSVLALGHKRNSGVP AFLTPLLNI I ISLA  
RLPLVNSYTRVPPLVWKLGWSPKPGDGFATPEIPVEFLQEKEVFKEFIYRINTLGWTS  
RTQFEETWATLLGLVLTQPLVMEQEEESPPEEDTERTQINVLAQAITSVLVSAMTVPVAG  
NPAVSCLEQQPRNKPLKALDTRFGRKLSIIRGIVEQEIQAMVSKRENIATHHLYQAWDPV  
PSLSPATTGALISHEKLLLQINPERELGSMYSKLGQVSIHVS WLGN SITPLREEEWDEEE  
EEEADAPAPSSPPTSPVNSRKHRRAGVDIHSCSQFLELYSRWILPSSSARRTPAILISEV  
VRSLLVSDLFTERNQFELMYVTLETLLRRVHPSEDEILAQYLV PATCKAAAVLGMDKAVA  
EPVSRILLESTLRSSHLP SRVGA LHGVLYVLECDLLDDTAKQLIPVISDYLLSNLKGIAHC  
VNIHSQQHVLVMCATAFYLIENYPLDVGPFSASIIQMGVMLSGSEESTPSIIYHCLR  
GLERLLLSEQLSRDLAESLVKLSVDRVNVHSPHRAMAALGLMLTCMYTGKEKVSPGRTSD  
PNPAAPDSESVIVAMERVSVLFDRIKGFPCEARVVARILPQLDDFFPPQDIMNKVIGE  
FLSNQQPYPQFMATVVYKVFQTLHSTGQSSMVRDWVMLSLSNFTQRAPVAMATWSLSCFF  
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>sp|Q7Z4Q2|HEAT3\_HUMAN HEAT repeat-containing protein 3 OS=Homo sapiens GN=HEATR3 PE=1  
SV=2

MGKSRTKRFRKRPQFSPTGDCQAEAAAAANGTGGEEDDGPAELLEKLQHPSAEVRECACA  
GLARLVQQRPALPGLARRDAVRRLGPLLLDPSLAVRETAAGALRNLSACGGFEVCDDMT  
KDIMTPLVALLKECSAGLDSNEMSLQEKDQNRNSIENIANETVNVLWNICECSSRAVSI  
FNKEGCLDIVLKYLSRFPTNVDLAISVAYCLQTVTEDNPELLKSFSATALNMLESALLSP  
VSSMESLLLKTLVAGTIWNLDIIPCKSQAEIINALKILSEVLGMDAGEMVIQKAEET  
QRLKTAAEAEEILENTNGDDLIEDDEMEGISHKRRVRRKTFVSDLLPPTDKELRETIALL  
TAQQTALEIIIVNMCCNEDPSDDEWEELSSSDESDAFMENSFSECGQLFSPLCLSHEVHT  
ALTNYLIPKKIFEKTAFPNSIAVDLCSRNPWKPLIRKMNTIQCRALFCLQSLVSLDVE  
HLGGAAALQTLAQHLSQLLFSQPDFAKHVDLFLEAISSALRALLQTMASKNISQCMTPDQL  
MTLCKAGIHSSNVGVRVNVVSI LGITG SVLAKEDGTLET LKNIGCFLLLEVTTKDPSLVVA  
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>sp|Q9NRV9|HEBP1\_HUMAN Heme-binding protein 1 OS=Homo sapiens GN=HEBP1 PE=1 SV=1  
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KVAKYAGGTNDKGIGGMTVPISFAVFPNEDGSLQKKLVWFRIPNQFQSDPPAPSDKSV  
KIEEREGITVYSMQFGGYAKEADYVAQATRLRAALEGTATYRGDIYFCTGYDPPMKPYGR  
RNEIWLLKT

>sp|Q9Y5Z4|HEBP2\_HUMAN Heme-binding protein 2 OS=Homo sapiens GN=HEBP2 PE=1 SV=1

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AIQTGFTKLNYSIQGKNEKEMKIKMTAPVTSYVEPGSGPFSESTITISLYIPSEQQFDPP  
RPLESDVFIEDRAEMTVFVRSFDGFSSAQKNQEQLTLASILREDGKVFDEKVYYTAGYN  
SPVKLLNRNNEVWLIQKNEPTKENE

>sp|Q14CZ8|HECAM\_HUMAN Hepatocyte cell adhesion molecule OS=Homo sapiens GN=HEPACAM PE=1  
SV=1

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SSDRPVVKWQLRKDPVTVVQSIGTEVIGTLRPDYRDIRLRFENGSLLLSDLQLADEGTY  
EVEISITDDTFTGEKTINLTVDPISRPQVLVASTTVLELSEFTLNCSENGTKPSYTW  
LKDGKPLLNDSRMLSPDQKVLITRVLMEDDLYSCMVENPISQGRSLPVKITVYRRSS  
LYIILSTGGIFLLVTLVTVACWKPSKRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG  
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>sp|Q5T447|HECD3\_HUMAN E3 ubiquitin-protein ligase HECTD3 OS=Homo sapiens GN=HECTD3 PE=1  
SV=1

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VVDLTYSHRLGSRPQAEAYAEAVQRLLYVPPTWTYECDEDLIHFLYDHLGKEDENLGSV  
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GGGFRDSLADMSEELCPSSADTPVPLPFFVRTANQGNGTGEARDMYVPNPSCRDFAKYEW  
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GLLKVVPQAVLDLLTWQELEKKVCGDPEVTVDALRKLTRFEDFEPSSSRVQYFWEALNNF  
TNEDRSRFLRFVTGRSRLPARIYIYDPKLG YETTDALPESSTCSSTLFLPHYASAKVCEE  
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>sp|Q9ULI3|HEG1\_HUMAN Protein HEG homolog 1 OS=Homo sapiens GN=HEG1 PE=1 SV=3

MASPRASRWPPLLLLLLPLLLLPAAAGTRDPPPPSPARRALSLAPLAGAGLELQLERRP  
EREPPPTPPRERRGPATPGPSYRAPEGAATQRGPGSRAPRGGSADAANKHWPESENTEAH  
VENITFYQNQEDFSTVSSKEGMVQTSKGSHAASDAPENLTLLAETADARGSGSSSRTN  
FTILPVGYSLEIATALTSQSGNLASESLHLPSSSSEFDERIAAFQTKSGTASEMGTERAM  
GLSEEWTVHSQEATTSWSPSFLPALEMGELTPSRKRNSSGPDLWLHFYRTAASSPLL  
DLSSSESTEKLNNSTGLQSSSVSQTKTMHVATVFTDGGPRTLRLSLTVSLGPVSKTEGFP  
KDSRIATTSSSVLLSPSAVESRRNSRVGTGNPGDEEFIEPSTENEFGTLRLWQNDSPFTG  
EHQLASSSEVQNGSPMSQTETVRSVAPMRGGEITAHWLLTNSTTSADVTGSSASYPEGV  
NASVLTQFSDSTVQSGGSHTALGDRSYSESSSTSSSESLNSSAPRGERSIAGISYGQVRG

TAIEQRTSSDHTDHTYLSSTFTKGERALLSITDNSSSSDIVESSTSYIKISNSSHSEYSS  
FFHAQTERSNISSYDGEYAQPSTESPVLHTSNLPSYTP TINMPNTSVVLDTDAEFVSDSS  
SSSSSSSSSSSSGPPLPLPSVSQSHHLFSSILPSTRASVHLLKSTSDASTPWSSSPPLP  
VSLTTSTSAPLSVSQTTLPQSSSTPVLPRARETPVTSFQTSTMTSFMTHSSQTADLKS  
QSTPHQEKVITESKPSLVSLPTESTKAVTTNSPLPPSLTESSTEQTLPATSTNLAQMSP  
TFTTTILKTSQPLMTTPGTLSSASLVTPGPIAVQTTAGKQLSLTHPEILVPQISTEGGIS  
TERNRVIDDATTGLIPLTSVPTSAKEMTTKLGVTAEYSPASRSLGTSPSPQTTVVSTAED  
LAPKSATFAVQSSTQSPTTVSSASVNSCAVNPCLNHGEADVADNTSRGYHCRCPPSWQGD  
DCSDVDNECLSNPCSTAMCNNTQGSFICKCPVGYQLEKGICNLVRTFVTEFKLRFTLN  
TTVEKHSDLQEVENEITKTLNMCFSALPSYIRSTVHASRESNAVVISLQTTFSLASNVTL  
FDLADRMQKCVNSCKSSAEVCQLLGSQRRIFRAGSLCKRKSPECDKDTSICTDLGVALC  
QCKSGYFQFNKMDHSCRACEDGYRLENETCMSCPFGLGGLNCGNPYQLITVVIAAAGGGL  
LLILGIALIVTCCRKNKNDISKLIFKSGDFQMSPYAEYPKNPRSQEWGREAIEMHENGST  
KNLLQMTDVYYSPTSVRNPELERNGLYPAYTGLPGSRHSCIFPGQYNPSFISDESRRRDY  
F

>sp|P48637|GSHB\_HUMAN Glutathione synthetase OS=Homo sapiens GN=GSS PE=1 SV=1

MATNWGSLLDQKQLEELARQAVDRALAEGLLRTSQEPTSSEVVSYAPFTLFPVSLVPSA  
LLEQAYAVQMDFNLLVDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQTVF  
LGLNRSDYMFQRSADGSPALKQIEINTISASFGLASRTPAVHRHVLVLSKTKEAGKIL  
SNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIENELLARNIHVIRRTFE  
DISEKGLDQDRRLFVDGQEIAVVYFRDGYMPRQYSLQNEARLLERSHAAKCPDIATQ  
LAGTKKVQQELSRPGMLEMLLPQPEAVARLRATFAGLYSLDVGEEDQAI AEALAAPSR  
FVLKPQREGGNNLYGEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVV  
QCISELGFVGYVRQEKTLVMNKHVGHLLRKAIEHADGGVAAGVAVLDNPYPV

>sp|P49840|GSK3A\_HUMAN Glycogen synthase kinase-3 alpha OS=Homo sapiens GN=GSK3A PE=1  
SV=2

MSGGGPSGGPGGSGRARTSSFAEPGGGGGGGGGGPGGSASGPGGTGGGKASVGAMGGGV  
GASSSGGGPGSGGGGSGGPGAGTSFPPPGVKLGRDSGKVTTVVATLGQGPERSQEVA  
YTDIKVINGSFVGVYQARLAETRELVAIKKVLQDKRFKNRELQIMRKLDHCNIVRLRYFFY  
SSGEKKDELYLNLVLEYVPETVYRVARHFTKAKLTIPILYVKVYMYQLFRSLAYIHSQGV  
CHRDIPQNLVDPDTAVLKLCDFGSAKQLVRGEPNVSYICSRYYRAPELIFGATDYTSS  
IDVWSAGCVLAELLLGQPIFPDGSVDQLVEIIKVLGTPTREQIREMNPNYTEFKFPQIK  
AHPWTKVFKSRTPEAIALCSSLLEYTPSSRLSPLEACAHSSFFDELRC LGTQLPNNRPLP  
PLFNFSAGELSIQPSLNAILIPHLRSPAGTTTLTPSSQALTETPTSSDWQSTDATPTLT  
NSS

>sp|P11168|GTR2\_HUMAN Solute carrier family 2, facilitated glucose transporter member 2  
OS=Homo sapiens GN=SLC2A2 PE=1 SV=1

MTEDKVTGTLVFTVITAVLGSFQFGYDIGVINAPQQV IISHYRHVLGVPLDDRKA INNYV  
INSTDELPTISYSMNPKPTPWAEETVAAAQLITMLWSLSVSSFAVGGMTASFFGGWLG  
D TLGRIKAMLVANILSLVGALLMGFSKLGPSHILIIAGRSISGLYCGLISGLVPMYIGEIA  
PTALRGALGTFHQLAIVTGILISQIIIGLEFILGNYDLWHILLGLSGVRAILQSLLFFCP  
ESPRYLYIKLDEEVKAKQSLKRLRGYDDVTKDINEMRKEREEASSEQKVSIIQLFTNSSY  
RQPILVALMLHVAQQFSGINGIFYYSTSIFQTAGISKPVYATIGVGAVNMVFTAVSVFLV  
EKAGRRSLFLIGMSGMFVCAIFMSVGLVLLNKFSWMSYVSMIAIFLVSF FEIGPGPIPW

FMVAEFFSQGPRPAALAIAAFSNWT CNFIVALCFQYIADFCGPYVFFLFAGVLLAFTLFT  
FFKVPETKGKSFEETIAAEFQKKSGSAHRPKAAVEMKFLGATETV

>sp|P22732|GTR5\_HUMAN Solute carrier family 2, facilitated glucose transporter member 5  
OS=Homo sapiens GN=SLC2A5 PE=1 SV=1

MEQQDQSMKEGRLTLVLALATLIAAFGSSFYGYNVA AVNSPALLMQQFYNETYYGRTGE  
FMEDFPLTLLWSVTVSMFPFGGFIGSLLVGPLVNFGRKGALLFNNIFSIVPAILMGCSR  
VATSFELIIISRLLVGICAGVSSNVVPMYLGELAPKNLRGALGVVPQLFITVGILVAQIF  
GLRNLLANVDGWPIILLGLTGVPAAQLLLL PFFPESPRYLLIQKKDEAAAKKALQTLRGW  
DSVDREVAEIRQEDEAEKAAGFISVLKLFMRSLRWQLLSIIVLMGGQQLSGVNAIYYA  
DQIYLSAGVPEEHVQYVTAGTGAVNVMTFCAVFVVELLGRRLLLLGFSLICLIACCVLT  
AALALQDVTVSWMPYISIVCVISYVIGHALGPSPIALLITEIFLQSSRPSAFMVGGSVHW  
LSNFTVGLIFPFIQEGLPYSFIVFAVICLLTTIYIFLIVPETKAKTFIEINQIFTKMNK  
VSEVYPEKEELKELPPVTSEQ

>sp|Q9NRM0|GTR9\_HUMAN Solute carrier family 2, facilitated glucose transporter member 9  
OS=Homo sapiens GN=SLC2A9 PE=1 SV=2

MARKQNRNSKELGLVPLTDDTSHAGPPGPRALLECDHLRSGVPGGRRRKDWSCSLLVAS  
LAGAFGSSFLYGYNSVVNAPTPYIKAFYNESWERRHGRPDPDTLTLWSVTVSIFAIG  
GLVGT LIVKMIGVLGRKHTLLANNGFAISAALLMACSLQAGAFEMLIVGRFIMGIDGGV  
ALSVLPMYLSEISPKEIRGSLGQVTAIFICIGVFTGQLLGPPELLGKESTWPYLFVIVV  
PAVVQLLSLPFLPDSPRYLLLEKHNEARAVKAFQTLGKADVSEVEEVLAESRVQRSIR  
LVSVLELLRAPYVRWQVVTIVTMACYQLCGLNAIWFYTNSIFGKAGIPPAKIPYVTLST  
GGIETLAAVFSGLVIEHLGRRPLLIGGFGLMGLFFGTLTITLTLQDHAPWVPYLSIVGIL  
AIIASFCSGPGGIPFILTGEFFQQSQRPAAFIAGTVNWSNFAVGLLFPFIQKSLDITYC  
FLVFATICITGAIYLYFVLPETKNRTYAEISQAFSKRNKAYPPEEKIDSAVTDGKINGRP

>sp|Q16661|GUC2B\_HUMAN Guanylate cyclase activator 2B OS=Homo sapiens GN=GUCA2B PE=1 SV=1  
MGCRAASGLLPGVAVLLLLLQSTQSVYIQYQGFRVQLESMMKLSDEAQWAPSPRLQAQ  
SLLPAVCHHPALPQDLQPVCASQEASSIFKTLRTIANDDCELCVNVACTGCL

>sp|O60814|H2B1K\_HUMAN Histone H2B type 1-K OS=Homo sapiens GN=HIST1H2BK PE=1 SV=3

MPPEAKSAPAPKKGSKAVTKAQKKDGKKRKRSRKESYSVYVYKVLQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSAK

>sp|Q71DI3|H32\_HUMAN Histone H3.2 OS=Homo sapiens GN=HIST2H3A PE=1 SV=3

MARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQKSTE  
LLIRKLFPQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVTI  
MPKDIQLARRIRGERA

>sp|Q99525|H4G\_HUMAN Histone H4-like protein type G OS=Homo sapiens GN=HIST1H4G PE=1 SV=1

MSVRGKAGKGLGKGAKCHRKVLSDNIQGITKCTIRRLARHGGVKRILGLIYEETRRVFK  
VFL ENVIWYAVTNTTEHAKRKTVTAMAVVYVLKRQGRTL

>sp|Q8IYU2|HACE1\_HUMAN E3 ubiquitin-protein ligase HACE1 OS=Homo sapiens GN=HACE1 PE=1  
SV=2

MERAMEQLNRLTRSLRRARTVELPEDNETAVYTLMPVMADQHRSVSELLSNSKFDVNYA  
FGRVKRSLLHIAANCGSVECLVLLKKGANPNYQDISGCTPLHLAARNGQKKCMSKLEY  
SADVNICNNEGLTAIHWLAVNGRTELLHDLVQHVSDVDVEDAMQTALHVACQNGHKTTV  
QCLLD SGADINRPNVSGATPLYFACSHGQRDTAQILLLRGAKYLPDKNGVTPLDLCVQGG

YGETCEVLIQYHPRLFQTI IQMTQNEDLRENMLRQVLEHLSQQSESQYLKILTSLAEVAT  
TNGHKLLSLSSNYDAQMKSLLRIVRMFCHVFRIGPSSPSNGIDMGYNGNKTPRSQVFKPL  
ELLWHSLEDEWLVLIAATELMKNKRDSTEITSILLKQKGGQDDAASIPPFEPGPGSYENLS  
TGTRESKPDALAGRQEASADCQDVISMTANRLSAVIQAFYMCCSCQMPPGMTSPRFIEFV  
CKHDEVLCFVNRPKIIFDHFHFLLECEPELMSRFMHI IKAQPFKDRCEWFYEHLHSGQP  
DSDMVHRPVNENDILLVHRDSIFRSSCEVVS KANCAKLKQGI AVRFGEEGMGGQGVREW  
FDILSNEIVNPDYALFTQSADGTTFQPNSNSYVNPDLNYFRFAGQILGLALNHRQLVNI  
YFTRSFYKHILGIPVNYQDVASIDPEYAKNLQWILDNDISDLGLELTFSVETDVF GAMEE  
VPLKPGGGSILVTQNNKA EYVQVLT ELMTRAIQPQINAF LQG FHMFI PPSLIQLFDEYE  
LELLLSGMPEIDVSDWIKNTEYTS GYEREDPVIQWFWEVVEDITQEERVLLLQFVTGSSR  
VPHGGFANIMGGSLQNFTIAAVPYTPNLLPTSSTCINMLKLPEYPSKEILKDRLLVALH  
CGSYGYTMA

>sp|P61296|HAND2\_HUMAN Heart- and neural crest derivatives-expressed protein 2 OS=Homo sapiens GN=HAND2 PE=1 SV=1

MSLVGGFPHHPVHHEGYPF AAAAAAAAAAASRCSHEENPYFHGWLIGHPEMSPPDYSM  
ALSYSPEYASGAAGLDHSHYGGVPPGAGPPGLGGPRPVKRRGTANRKERRRTQSINSAFA  
ELRECIPNVPADTKLSKIKTLRLATSYIAYLMDLLAKDDQNGEAEAFKAEIKKTDVKEEK  
RKKELNEILKSTVSSNDKKTGRTGWPQH VWALELKQ

>sp|Q9NYQ3|HAOX2\_HUMAN Hydroxyacid oxidase 2 OS=Homo sapiens GN=HAO2 PE=1 SV=1

MSLVCLTDFQAHAREQLSKSTRDFIEGGADDSITRDDNIAAFKRIRLRPRYL RDVSEVDT  
RTTIQGE EISAPICIAPTGFHCLVWPDGEMSTARAAQAAGICYITSTFASCSLEDIVIAA  
PEGLRWFQLYVHPDLQLNKQLIQRVESLGFKALVITLDTPVCGNRRHDIRNQLRRNLTLT  
DLQSPKKGNAIPYFQMTPISTSLCWNDLSWFQSI TRLPIILKGILTKEDAELAVKHNVQG  
IIVSNHGGRQLDEVLASIDALTEVVA AVKGKIEVYLDGGVRTGNDVLKALALGAKCIFLG  
RPILWGLACKGEHGVKEVLNILTNEFHTSMALTGCRSVAEINRNLVQFSRL

>sp|Q8TF76|HASP\_HUMAN Serine/threonine-protein kinase haspin OS=Homo sapiens GN=GSG2 PE=1 SV=3

MAASLPGPGSRLFRITYGAADGRRQRRPGREAAQWFPPQDRRRFFNSSGSSDASIGDPSQS  
DDPDDPDDPDFGSPVRRRRRRRPGGRVPKDRPSLTVTPKRWKL RARPSLTVTPRRLGLRA  
RPPQKCSTPCGPLRLPPFSPRDSGRLSPDLSVCGQPRDGDELGISASLFSSLASPCPGSP  
TPRDSVISIGTSACLVAASAVPSGLHLPEVSLDRASLPCSQEATGGAKDTRMVHQTRAS  
LRSVLFGLMNSGTPEDSEFRADGKNMRESCCKRKL VVGNGPEGPGLSSTGKRRATGQDSC  
QERGLQEAVRREHQEASVPKGRIVPRGIDRLERTRSSRKS KHQEATETSL LHSHRFKKGQ  
KLGKDSFPTQDLTPLQNVCFWTKTRASF SFHKKIIVTDVSEVCSIYTTATSLSGSLLSEC  
SNRPVMNRTSGAPSSWHSSMYLLSPLNTLSISNKKASDAEKVYGECSQKGPVPF SHCLP  
TEKLQRCEKIGEGVFGEVFQTIADHTPVAIKIIAIEGPD LVNGSHQKTFEELPEIIISK  
ELSLLSGEVCNRTEGFIGLNSVHCVQGSYP LLLKAWDHYNSTKGSANDRPDFFKDDQLF  
IVLEFEFGGIDLEQMRTKLSSLATAKSI LHQLTASLAVAEASLRF EHRDLHWGNVLLKKT  
SLKKLHYTLNGKSSTIPSCGLQVSIIDYTL SRLERDGI VVFCDVSMDEDLFTGDGDYQFD  
IYRLMKKENNRWGEYHPYSNVLWLHYLTDKMLKQMTFKTKCNTPAMKQIKRKIQEFHRT  
MLNFSSATDLLCQHSLFK

>sp|P49019|HCAR3\_HUMAN Hydroxycarboxylic acid receptor 3 OS=Homo sapiens GN=HCAR3 PE=1 SV=3

MNRHHLQDHFLEIDKKNCCVFRDDFIAKVLPPVLGLEFIFGLLG NGLALWIFCFHLKSWK

SSRIFLNLAVADFLLIICLPFVMDYYVRRSDWKFGDIPCRLVLFMFAMNRQGSIIFLT  
VAVDRYFRVPHHALNKISNWTAAIISCLLWGITVGLTVHLLKKKLLIQNGTANVCISF  
SICHTFRWHEAMFLEFFLPLGIILFCSARIIWSLRQRQMDRHAKIKRAITFIMVVAIVF  
VICFLPSVVVRIHIFWLLHTSGTQNCVYRSVDLAFFITLSFTYMNSMLDPVVYYFSSPS  
FPNFFSTLINRCLQRKITGEPDNNRSTSVELTGDPNKTRGAPEALIANSGEPWSPSYLGP  
TSNNHKKKGHCHEPASLEKQLGCCIE

>sp|P46439|GSTM5\_HUMAN Glutathione S-transferase Mu 5 OS=Homo sapiens GN=GSTM5 PE=1 SV=3  
MPMTLGYWDIRGLAHAIRLLLEYTDSSYVEKKYTLGDAPDYDRSQWLNEKFGLGLDFPNL  
PYLIDGAHKITQSNAILRYIARKHNLCGETEEEKIRVDILENQVMDNHMELVRLCYDPDF  
EKLKPKYLEELPEKLKLYSEFLGKRPFAGDKITFVDFLAYDVLDMKRIFEPKCLDAFLN  
LKDFISRFEGKKISAYMKSSQFLRGLLFGKSATWNSK

>sp|POCG30|GSTT2\_HUMAN Glutathione S-transferase theta-2B OS=Homo sapiens GN=GSTT2B PE=1  
SV=1

MGLEFLDLVSQPSRAVYIFAKKNGIPELRTVDLVKGQHKSEFLQINSLGKLPTLKDG  
DFILTESSAILIYLSCKYQTPDHWYPSDLQARARVHEYLGHADCI RGTFGIPLWVQVLG  
PLIGVQVPEEKVERNRTAMDQALQWLEDKFLGDRPFLAGQVTLADLMALEELMQPVALG  
YELFEGRPRLAAWRGRVEAFLGAELCQEAHSIILSILEQAAKKTLPSPPEAYQAMLLRI  
ARIP

>sp|P78347|GTF2I\_HUMAN General transcription factor II-I OS=Homo sapiens GN=GTF2I PE=1  
SV=2

MAQVAMSTLPVEDEESSESRMVVTFMSALESMCKELAKSKAEVACIAVYETDVFVVGTE  
RGRAFVNTRKDFQKDFVKYCVEEEEKAAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYF  
CFCYKALGKSTVVPVPEYKMLRDQSAVVVQGLPEGVAFKHPENYDLATLKWILENKAGI  
SFI IKRPFLEPKKHVGGRMVTDADRSILSPGGSCGPIKVKTEPTEDSGISLEMAAVTVK  
EESEDPDYQYNIQAGPSETDDVDEKQPLSKPLQGS SHSSEGNEGTEMEVPAEDSTQHVP  
SETSEDPEVEVTIEDDDYSPSKRPKANLPQPPVPEPANAGKRKREFNFEEKWNARITD  
LRKQVEELFERKYAQAIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRRPSTYGIPRLE  
RILLAKERIRFVIKKHELLNSTREDLQLDKPASGVKEEWYARITKLKRMVDQLFCKKFAE  
ALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPRLEKIIQVGNRIKFVIKR  
PELLTHSTTEVTQPRNTNPKEDWNVRITKLKQVEEIFNLKFAQALGLTEAVKVPYPVF  
ESNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKPELVISYLP PGMASK  
INTKALQSPKRPRSPGSNSKVEIEVTVEGPNNNNPQTSAVRTPTQTNGSNVPFKPRGRE  
FSFEAWNAKITDLKQKVENLFNEKCGEALGLQAVKVPFALFESFPEDFYVEGLPEGVPF  
RRPSTFGIPRLEKILRNKAKIKFIKKPEMFETAIKESTSSKSPPRKINSSPNVNTTASG  
VEDLNIIQVTIPDDDNERLSKVEKARQLREQVNDLFSRKFGEAIGMGFPVKVPYRKITIN  
PGCVVDGMPPGVSFKAPSYLEISSMRRILDSAEFIKFTVIRFPGLVINNQLVDQSESE  
GPVIQESAEPSQLEVPATEEIKETDGSSQIKQEPDPTW

>sp|Q8TDB8|GTR14\_HUMAN Solute carrier family 2, facilitated glucose transporter member 14  
OS=Homo sapiens GN=SLC2A14 PE=2 SV=1

MEFHNGGHVSGIGGFLVSLTSRMKPHTLAVTPALIFAITVATIGSFQFGYNTGVINAPET  
IIKEFINKTLTDKANAPPSEVLLTNLWSLSVAIFSVGGMIGSFSVGLFVNRFGRNSMLI  
VNLLAATGGCLMGLCKIAESVEMLILGRLVIGLFCGLCTGFVPMYIGEISPTALRGAFGT  
LNQLGIVIGILVAQIFGLELILGSEELWPVLLGFTILPAILQSAALPCCPESPRFLLINR  
KKEENATRILQRLWGTQDVSQDIQEMKDESARMSQEKQVTLELFRVSSYRQPIIISIVL

QLSQQLSGINAVFYYSTGIFKDAGVQQPIYATISAGVVNTIFTLLSLFLVERAGRRTLHM  
IGLGGMAF CSTLMTVSLLLKNHYNGMSFVCIGAILVFVACFEIGPGPIPWFIVAELFSQG  
PRPAA MAVAGCSNWT SNFLVGLLFPSAAYYL GAYVFIIFTGFLITFLAFTFFKVPETRGR  
TFEDITRAFEGQA HGADRSGKDGVMGMSIEPAKETTTNV

>sp|Q9H1H1|GTSFL\_HUMAN Gametocyte-specific factor 1-like OS=Homo sapiens GN=GTSF1L PE=2 SV=1

MEPEAFEICPYDPHHRIPLSRFQYHLASCRRKNPKKAKKMATCKYNACHVVP IKNLEEHE  
AVCVNRSAVEEEDTENPLKVSPPSSEQNDDTQQVSPCLPSPDIWNVDGANCQHVFLKTF  
FPQKVV CENDTKESARETSPQKILRPGQ

>sp|O95843|GUC1C\_HUMAN Guanylyl cyclase-activating protein 3 OS=Homo sapiens GN=GUCA1C PE=1 SV=3

MNGKSGIAGDQKAVPTQETHVWYRTFMMEYPSGLQTLHEFKTLLGLQGLNQKANKHIDQV  
YNTFD TNKDG FVDFLEFIAAVNLIMQEKM EQKLKWFYKLYDADGNGSIDKNELLD MFMAV  
QALNGQQTLSP EEFINLVFHKIDINNDGELTLEEFINGMAKDQDLLEIVYKSFDFS NVLR  
VICNGKQPD METDSSKSPDKAGLGKVKMK

>sp|Q8IZA3|H1FOO\_HUMAN Histone H1oo OS=Homo sapiens GN=H1FOO PE=2 SV=1

MAPGSVTS DISPSSTSTAGSSRPESEKPGPSHGGVPPGGPSHSSLPVGRRHPPVLRMVL  
EALQAGEQRRGTSVA AIKLYILHKYPTVDVLRFKYLLKQALATGMRRGLLARPLNSKARG  
ATGSFKLV PKHKKKI QPRKMAPATAPRRAGEAKGKGPKKPSEAKEDPPNVGKVKKA AKRP  
AKVQKPPPKGAATEKARKQGGA AKDTRAQSGEARKVPPKPKDAMRAPSSAGGLSRKAKA  
KGRSSQGD AEAYRKTAESKSSKPTASKVKNGAASPTKKKVAKAKAPKAGQGPNTKAA  
APAKGSGSKV VPAHL SRKTEAPKGPRKAGLP IKA SSKVSSQRAEA

>sp|POC5Y9|H2AB1\_HUMAN Histone H2A-Bbd type 1 OS=Homo sapiens GN=H2AFB1 PE=2 SV=1

MPRRRRRRRGSSGAGGRGRTCSRTVRAELSFVSQVERSLREGHYAQLSRTAPVYLA AVI  
EYLTA KVP ELAGNEA QNSGERNITPLLLDMV VHNDRLSTL FNTTTISQVAPGED

>sp|Q9POM6|H2AW\_HUMAN Core histone macro-H2A.2 OS=Homo sapiens GN=H2AFY2 PE=1 SV=3

MSGRSGKKKMSKLSRSARAGVIFPVGRLMRYLKKGT FKYRISVGAPVYMAAVIEYLAAEI  
LELAGNAARDNKKARIAPRHILLAVANDEELNQLLKGVTIASGGVLPRIHPELLAKKRGT  
KGKSETILSPPEKRGRKATSGKKGKKSAAKPRTSKKS PKDSDEGTSNSTSEDGPG  
DGFTILSSKSLVLGQKLSLTQSDISHIGSMRVEGIVHPTTAEIDLKEDIGKALEKAGGKE  
FLETVKELRKSQGP LEVAEAAVSQSSGLAAKFVIHCHIPQWGS DKCEEQLEETIKNCLSA  
AEDKKLSVAFPFPSPGRNCFPKQTAAQVTLKAISAHFDDSSASSLKNVYFLLFDS ESIG  
IYVQEMAKLDAK

>sp|Q99880|H2B1L\_HUMAN Histone H2B type 1-L OS=Homo sapiens GN=HIST1H2BL PE=1 SV=3

MPELAKSAPAPKKGSKAVTKAQKKDGKKRKR SRKESYSVYVKVLKQVHPDTGISSKAM  
GIMNSFVNDIFERIASEASRLAHYNKRSTITSREIQTAVRLLLP GELAKHAVSEGTKAVT  
KYTSSK

>sp|Q6DRA6|H2B2D\_HUMAN Putative histone H2B type 2-D OS=Homo sapiens GN=HIST2H2BD PE=5 SV=3

MPPEAKFAPAPKKGSKAVTKAQKKDGKKRKR SRKESYSIYVKVLKRVHPDTGIWCKAM  
GIMNSFLNDIFERIAGEASRLAHYNKRSTITSRRSRRPCACCCPASWPSTPCPRAPRRSP  
STPAPSESLPGPGARSLPPSLPPRVAGCFVSKGSFQGH LTPLVK

>sp|Q16695|H31T\_HUMAN Histone H3.1t OS=Homo sapiens GN=HIST3H3 PE=1 SV=3

MARTKQTARKSTGGKAPRKQLATKVARKSAPATGGVKPHRYRPGTVALREIRRYQKSTE

LLIRKLPFQRLMREIAQDFKTDLRFQSSAVMALQEACESYLVGLFEDTNLCVIHAKRVTI  
MPKDIQLARRIRGERA

>sp|Q8IZP7|H6ST3\_HUMAN Heparan-sulfate 6-O-sulfotransferase 3 OS=Homo sapiens GN=HS6ST3  
PE=2 SV=3

MDERFNKWLTPVLTLLFVVIMYQYVSPSCTSSCTNFGEQPRAGEAGPPAVPGPARRAQA  
PPEEWERRPQLPPPPRGPPEGPRGAAPEEEDEEPDPRGEEEEDEPDPEAPENGSL  
PRFVPRFNFLSKDLTRFVDFNIKGRDVIIVFLHIQKTGGTTFGRHLVKNIRLEQPCSKAG  
QKKCTCHRPGKKETWLFSTRFSTGWSGLHADWTELNCVPAIMEKKDCPRNHSHTRNFY  
ITMLRDPVSRYLESEWKHVQRGATWKTSLHMCGRSPTPDELPTCYPGDDWSGVSLREFMD  
CTYNLANNRQVRMLADLSLVGCYNLTFMNESERNTILLQSAKNNLKNMAFFGLTEFQRKT  
QFLFERTFNLKFIPTQFNITRASNVEINEGARQRIEDLNFLDMQLYEYAKDLFQQRYH  
HTKQLEHQDRQRREERRLQREHRDHWPKEDGAAEGTVTEDYNSQVVRW

>sp|Q58FF7|H90B3\_HUMAN Putative heat shock protein HSP 90-beta-3 OS=Homo sapiens  
GN=HSP90AB3P PE=5 SV=1

MPPEVHHGEEVETFAFQAEIAQLISLIINTFYSNEEIFLQELISNASDALDKIRYESLT  
DPSKLDGSGELKIDIPNPQERTLALVDTGIGMTKADLINLRTIAKSGTKACMEALQAE  
KLIVITKHNDDEQYAWESSAGSFTVHADHGEPIGRGTVILHLKEDQTEYLEERRVKEV  
VKKHSQFIGYPITLYLEKEQDKESDDEAEEEEKGEKEEDKDDEEKPKIKDVGSDDEEDS  
KEYGEFYKSLTSDWEDHLAVKHFSVEGQLEFRALLFSPRRAPFDLFENKKKKNNIKLYVR  
RVFIMDSCDELIPEYLNFIHGVDSEDLPLNISREMLQQSKILKYVSHMKETQKSTYYIT  
GESKEQVANSFAVERVRKQGFEVVMTEPIDEYCVQLKEFDGKSLSVTKEGLELPEDE  
EEKKMEESKEKFENLCKLMEILDKKVEKVTISNRLVSSPCCIVTSTYGTANMEQIMK  
AQALRDNSTMGYMAKKHLEINPDHPIMETLRQKAEADKNDKAVKDLVLLFETALLSSG  
FSLEDPPQTHSNHIYHMIKLGLTDEDEVAEEPSDAVPDEIPPLEGDEDAARMEEVD

>sp|Q6Y1H2|HACD2\_HUMAN Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 2 OS=Homo  
sapiens GN=HACD2 PE=1 SV=1

MAAVAATAAAKNGGGGGRAGAGDASGTRKKKGPGPLATAYLVIYNVMTAGWLVIAGLV  
VRAYLAKGSYHSLYSIEKPLKFFQTGALLEILHCAIGIVPSSSVLTSTFQVMSRVFLIWA  
VTHSVKEVQSEDSVLLFVIAWTITEIIRYSFYTFSLNHLPLYLIKWARYTLFIVLYPMGV  
SGELLTIYAALPFVRQAGLYISLPNKYNFSFDYYAFLILIMISYIPIFPQLYFHHIQR  
RKILSHTEEHKKFE

>sp|Q5VWC8|HACD4\_HUMAN Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 4 OS=Homo  
sapiens GN=HACD4 PE=1 SV=1

MGPLALPAWLQPRYRKAYLFIYYLIQFCGHSWIFTNMTVRFFSFGKDSMVDTFYAIGLV  
MRLCQSVSLELLHIIYVGIESNHLPRFLQLTERIIILFVVITSQEEVQEYVVCVLFVF  
WNLLDMVRYTYSMLSVIGISYAVLTWLSQTLWMPYPLCVLAFAIYQSLPYFESFGTY  
STKLPDFLSIYFPYVLKIYLMMLFIGMYFTYSHLYSERRDILGIFPIKKKKM

>sp|Q75N03|HAKAI\_HUMAN E3 ubiquitin-protein ligase Hakai OS=Homo sapiens GN=CBLL1 PE=1  
SV=1

MDHTDNELQGTNSSGSLGGLDVRRIPIKLSKQANKAKPAPRTQRTINRMPAKAPPGDE  
EGFDYNEEERYDCKGGELFANQRRFPGLFWDFQINILGEKDDTPVHFCDKCGLPKIY  
RMIPCKHVFCYDCAILHEKKGDKMCPGCDPVQRIEQCTRGSIFMCSIVQGCKRTYLSQR  
DLQAHINHRHMRAGKPVTRASLENVHPPIAPPTEIPERFIMPPDKHHMSHIPPKQHIMM  
PPPPLQHVPHEHYNQPHEDIRAPPAELSMAPPPRSVSQETFRISTRKHSNLITVPIQDD

SNSGAREPPPPAPAPAHHHPEYQGPVVSHPHHIMPPQQHYAPPPPPPI SHPMHPHPQ  
AAGTPHLVYSQAPPPMTSAPPPITPPPGHIIAQMPPYMNHPPPGPPPPQHGGPPVTAPP  
PHHYNPNSLPQFTEDQGTLSPFFTQPGGMSPGIWPAPRGPPPPPRQLQGPPSQTPLPGPHH  
PDQTRYRPYYQ

>sp|O96004|HAND1\_HUMAN Heart- and neural crest derivatives-expressed protein 1 OS=Homo sapiens GN=HAND1 PE=2 SV=1

MNLVGSYAHHHHHHPHAPMLHEPFLFGPASRCHQERYFQSWLLSPADAAPDFPAGG  
PPPAATAATAYGPDARPGQSPGRLEALGGRLGRRKGSQPKERRRTEINSAFAELREC  
IPNVPADTKLSKIKTLRLATSYIAYLMDVLAKDAQSGDPEAFKAELKKADGGRESKRKRE  
LQQHEGFPPALGPVEKRIKRTGWPQQVWALELNQ

>sp|Q96EW2|HBAP1\_HUMAN HSPB1-associated protein 1 OS=Homo sapiens GN=HSPBAP1 PE=1 SV=1

MAAGSEATTPVIAAGAGGEEGEHVKPFKPEKAKEIIMSLQQPAIFCNMVFDPARHWN  
KYLSQVLHGKQIRFRMGKSMSTVPQFETTCNYVEATLEEFLTNCDQSSISGPFRDYDH  
SKFWAYADYKYFVSLFEDKTDLFQDVKWSDFGFPGRNGQESTLWIGSLGAHTPCHLDSYG  
CNLVFQVQGRKRWHLPPEDTPLYPTRIPYEESSVFSKINVNPDLRFPQFRKAQRHA  
VTLSPGQVLFVPRHWHYVESIDPVTVSINSWIELEEDHLARVEEAITRMLVCALKTAEN  
PQNTRAWLNPTVEEETSHAVNCCYLNAAVSAFFDRCRTSEVVEIQALRTDGEHMKKEELN  
VCNHMEVGQTGSQNLTTGTDKPEAASPFGPDLVPVAQRSEPPSERGGIFGSDGKDFVDK  
DGEHFGKLHCAKRQQIMSNSENAIEEQIASNTTTTPQTFISTDDLCLVNPQVTRIVAQ  
LLIQGRSL

>sp|P02042|HBD\_HUMAN Hemoglobin subunit delta OS=Homo sapiens GN=HBD PE=1 SV=2

MVHLTPEEKTAVNALWGKVNDAVGGEALGRLLVVYPWTQRFFESFGDLSSPDAMGNPK  
VKAHGKKVLGAFSDGLAHLNLTGKFTFSQLSELHCDKLHVDPENFRLLGNVLCVLAARNFG  
KEFTPQMKAAYQKVVAGVANALAHKYH

>sp|P23919|KTHY\_HUMAN Thymidylate kinase OS=Homo sapiens GN=DTYMK PE=1 SV=4

MAARRGALIVLEGVDRAKSTQSRKLVLEALCAAGHRAELLRFPERSTEIGKLLSSYLQKK  
SDVEDHSVHLLFSANRWEQVPLIKEKLSQGVTLVVDYAFSGVAFTGAKENFSLDWCKQP  
DVGLPKPDLVFLQLQLADAAKRGAFGHERYENGAFQERALRCFHQLMKDITLNLWKMVDA  
SKSIEAVHEDIRVLEDAIRTAETEKPLGELWK

>sp|Q8NES3|LFNG\_HUMAN Beta-1,3-N-acetylglucosaminyltransferase lunatic fringe OS=Homo sapiens GN=LFNG PE=1 SV=2

MLKRCGRRLLLALAGALLACLLVLTADPPPPPLPAERGRRALRSLAGAPAGAAPAPGLGAA  
AAPGALVRDVHSLSEYFSLTRARRDAGPPPGAAPRPADGHRPLAEPLAPRDVFIQV  
TTKKFHRARLDLLETWISRHKEMTFIFTDGEDEALARHTGNVVITNCSAAHSRQALSCK  
MAVEYDRFIESGRKWFCHVDDNYVNLRLRLASYPHTRDVYVGKPSLDRPIQAMERV  
SENKVRPVHFWFATGGAGFCISRGLALKMSPWASGGHFMNTAERIRLPDDCTIGYIVEAL  
LGVPLIRSGLFHSHLENLQQVPTSELHEQVTLSTYGMFENKRNAVHVKGPFSSVEADPSRFR  
SIHCHLYPDTWCPRTAIF

>sp|O95970|LGI1\_HUMAN Leucine-rich glioma-inactivated protein 1 OS=Homo sapiens GN=LGI1 PE=1 SV=1

MESERSKRMGNACIPLKRIAYFLCLLSALLLLEGKKPAKPKPAVCTCTKDNALCENARS  
IPRTVPPDVISLSFVRSGFTEISEGSFLFTPSLQLLLFTSNSFDVISDDAFIGLPHLEYL  
FIENNNIKSISRHTFRGLKSLIHLSLANNLQTLPKDIFKGLDSLTVNDLRGNSFNCDCK  
LKWLVEWLGHNTATVEDIYCEGPPEYKKRKINSLSSKDFDCIITEFAKSQDLQSLSID



TFSYLNDEYVVIQAQPTGKCIFLEWDHVEKTFRNYDNITGTSTVVCKPIVIETQLYVIVA  
QLFGGSHIYKRDSFANKFIKIQDIEILKIRKPNDIETFKIENNWFVADSSKAGFTTIY  
KWNGNGFYSHQSLHAWYRDTDVEYLEIVRTPQTLRTPHLILSSSSQRPVIYQWNKATQLF  
TNQTDIPNMEVDYAVKHFSVKGDVYICLTRFIGDSKVMKWGSSSFQDIQRMPSRGSMVFQ  
PLQINNYQYAILGSDYSFTQVYNWDAEKAKFVKFQELNVQAPRSFTHVSINKRNFLFASS  
FKGNTQIYKHVIVDLSA

>sp|Q9UPM6|LHX6\_HUMAN LIM/homeobox protein Lhx6 OS=Homo sapiens GN=LHX6 PE=1 SV=2  
MAQPGSGCKATTRCLEGTAPPAMAQSDAEALAGALDKDEGQASPCTPSTPSVCSPPSAAS  
SVPSAGKNICSSCGLEILDYLLKVNLIWHVRCLECSVCRTSLRQQNSCYIKNKEIFCK  
MDYFSRFGTKCARCGRQIYASDWRRARGNAYHLACFACFSCKRQLSTGEFGLVEEKVL  
CRIHYDTMIENLKRAAENGNTLEGAVPSEQDSQPKPAKRARTSFTAQLQVMAQFAQ  
DNNPDAQTLQKLADMTGLSRRVIQVWFQNCRARHKKHTPQHPVPPSGAPPSRLPSALSDD  
IHYTPFSSPERARMVTLHGYIESQVQCGQVHCRLPYTAPPVHLKADMDGPLSNRGEKVIL  
FQY

>sp|Q9NQ69|LHX9\_HUMAN LIM/homeobox protein Lhx9 OS=Homo sapiens GN=LHX9 PE=1 SV=3  
MEIVGCRAEDNSCPFRPPAMLFHGISGGHIQGIMEEMERRSKTEARLAKGAQLNGRDAGM  
PPLSPEKPALCAGCGKISDRYLLAVDKQWHLRCLKCCECKLALESELTCFAKDGSIYC  
KEDYYRRFSVQRCARCHGISASEMVMRARDSVYHLSCFTCSTCNKTLTTGDHFGMKDSL  
VYCRAHFETLLQGEYPPQLSYTELAAKSGGLALPYFNGTGTVQKGRPRKRKSPALGVDIV  
NYNSGCNENEADHLDRDQQPYPPSQKTKRMRTSFKHHQLRTMKSYFAINHNPDAKDLKQL  
AQKTGLTKRVLQVWFQNAKFRNRLLRQENGGVDKADGTSLPAPPSADSGALTPPGTAT  
TLTDLTNPTITVTVTSVTSNMDSHESGSPSQTTLTNLF

>sp|Q6ZQX7|LIAT1\_HUMAN Protein LIAT1 OS=Homo sapiens GN=LIAT1 PE=2 SV=2  
METRGPLAVRAESRRLVGIGPRAPPGRVGLQPSGRLDRRGAGTMGYKDNDGEEEEEREG  
GAAGPRGSRLPPTIGGASELAKRKVKKKRKKKTKGSGKGDDKHQSQSLKSQPLSSSFHD  
ILSPCKERGPKPEHRQSKVEKKHLPDSSTVSLPDAEIEENLANRINESLRWDGILADPE  
AEKERIRIYKLNRRKRYRCLALKGFHPDPEALKGFHPDPDALKGFPDPEALKGFHPDPE  
ALKGFHPDPEALKGFHPDPEALKGIHPDPEALKGIHPDPEALKGFHPDPEALKGFHPDPE  
ALKGFHTDPEALKGFHDPEALKGFHPDPKALKGFHPDPKALKGFHTDPEALKGFHPDPK  
ALKGFHPDPEALKGFHPDPEALKGFHPDPEALKGFHTDPNAEEAPENLPYLSDKDGSSSH  
RQPTSKAECPNLCFEGNLTPKLLHSDLAPTLLE

>sp|Q9H400|LIME1\_HUMAN Lck-interacting transmembrane adapter 1 OS=Homo sapiens GN=LIME1  
PE=1 SV=1  
MGLPVSWAPPALWVLGCCALLSLWALCTACRRPEDAVAPKRARRQRARLQGSATAAEA  
SLLRRTHLCSLSKSDTRLHELHRGPRSSRALRPASMDLLRPHWLEVSRDITGPQAAPSAF  
PHQELPRALPAAAATAGCAGLEATYSNVGLAALPGVSLAASPVVAEYARVQKRKGTHRSP  
QEPQQGKTEVTPAAQVDVLYSRVCKPKRRDPGPTTDPDPKGQGAILALAGDLAYQTLPL  
RALDVDSGPLENVYESIRELGDPAGRSSTCGAGTPPASSCPSLGRGWRPLPASLP

>sp|P53671|LIMK2\_HUMAN LIM domain kinase 2 OS=Homo sapiens GN=LIMK2 PE=1 SV=1  
MSALAGEDVWRCPGCGDHIAPSQIWIYRTVNETWHGSCFRCSECQDSL TNWYYEKDGKLYC  
PKDYWGKFGFCHGCSLLMTGPFMVAGEFKYHPECFACMSCKVIIEDGDAYALVQHATLY  
CGKCHNEVVLAPMFERLSTESVQEQLPYSVTLISMPATTEGRRGFSVSVESACSNYATTV  
QVKEVNRMHISPNNRAIHGDRILEINGTPVRTLRVEEVEDAISQTSQTLQLLIEHDPV  
SQRLDQLRLEARLAPHMQNAGHPHALSTLDTKENLEGLRRRSLRRSNSISKSPGPSSPK

EPLFSRDISRSESLRCSYSQQIFRPCDLIHGEVLGKGFFGQAIVTHKATGKVMVMK  
ELIRCDEETQKTFLTEVKVMRSLDHPNVLFKIGVLYKDKKLNLLTEYIEGGTLKDFLRSM  
DPFPWQQKVRFAKGIASGMAYLHSMCI IHRDLNSHNCLIKLDKTVVADFGLSRLIVEER  
KRAPMEKATTKRTRLRKNDRKKRYTVVGNPYWMAPEMLNGKSYDETVDIFSFGIVLCEII  
GQVYADPDCLPRTLDFGLNVKLFWEK FVPTDCPPAFFPLAAICCRLEPESRPAFSKLEDS  
FEALSLYL GELGIPLPAELEELDHTVSMQYGLTRDSPP

>sp|POCW20|LIMS4\_HUMAN LIM and senescent cell antigen-like-containing domain protein 4  
OS=Homo sapiens GN=LIMS4 PE=1 SV=1

MAFSGRARPCIIPENEEIPRAALNTVHEANGTEDERAVSKLQRRHSDVKVYKEFCDFYAK  
FNMANALASATCERCKGGFAPAETIVNSNGELYHEQCFVCAQCFQQFPPEGLFYEERT

>sp|Q6MZP7|LIN54\_HUMAN Protein lin-54 homolog OS=Homo sapiens GN=LIN54 PE=1 SV=3

MEVVP AEVNSLLPEEIMDTGITLVDDDSIEAVIVSSPIPMETELEEIVNINSTGDSTATP  
ISTEPITVYSNHTNQVAVNTTITKADSNTTVKPAFPSGLQKLGAQTPVTISANQIILNKV  
SQTSDLKLGNTLKP DGQKLILTLGKSGSPIVLALPHSQLPQAQKVTTQAQSGDAKLPP  
QQIKVVTIGGRPEVKPVIGVSALTPGSQLINTTTQPSVLQTQQLKTVQIAKKPRTPTSGP  
VITKLIFAKPINSKAVTGQTTQVSPPIAGRVLSQSTPGTPSKTITISESGVIGSTLNST  
TQTPNKIAISPLKSPNKAVKSTVQTITVGGVSTSQFKTI IPLATAPNVQQIQVPGSKFHY  
VRLVTATSASSSTQPVSNPSTNTQPLQQAQKPVVNTTPVRMSVPIVSAQAVKQVVPKPI  
NPTSQIVTTSQPQQRLIMPATPLPQIQPNLTNLPPGTVLAPAGTGNVGYAVLPAQYVTQ  
LQQSSYVSIASNSTFTGTSGIQTQARLPFNGIIPSESASRPRKPCNCTKSLCLKLYCDF  
ANGEFCNNCNTNCYNLEHENERQKAIKACLDNPEAFKPKIGKKEGESDRRHSKGCN  
CKRSGCLKNYCECYEAKIMCSSICKCIGCKNFEESEPERKTLMLHADAAEVRVQQQTAAKT  
KLSSQISDLLTRPTALNSGGGKLPTFTVTKAEATCNCLLAQAEQADKKGKSAAAER  
MILEEFGRC LMSVINSAGKAKSDPCAMNC

>sp|O14910|LIN7A\_HUMAN Protein lin-7 homolog A OS=Homo sapiens GN=LIN7A PE=1 SV=2

MLKPSVTSAPTADMATLTVVQPLTLDRDVARAIEELLEKLQESGEVPVHKLQSLKKVLQSE  
FCTAIREVYQYMHETITVNGCPEFRARATAKATVAFAASEGHSHPRVVELPKTDEGLGF  
NVMGGKEQNSPIYISRIIPGGVAERHGLKRGDQLLSVNGVSVEGEHHEKAVELLKAAKD  
SVKLVVRYTPKVLEEMEARFEKLRTARRRQQQQLLIQQQQQQQQQTQQNHMS

>sp|Q9NUP9|LIN7C\_HUMAN Protein lin-7 homolog C OS=Homo sapiens GN=LIN7C PE=1 SV=1

MAALGEPVRLERDICRAIEELLEKLQRSGEVPPQKLQALQRVLQSEFCNAVREYEHVYET  
VDISSPEVRANATAKATVAFAASEGHSHPRVVELPKTEEGLGFNIMGGKEQNSPIYIS  
RIIPGGIADRHGGLKRGDQLLSVNGVSVEGEHHEKAVELLKAAQGVKLVVRYTPKVLEE  
MESRF EKMSAKRRQQT

>sp|Q8ND30|LIPB2\_HUMAN Liprin-beta-2 OS=Homo sapiens GN=PPFIBP2 PE=1 SV=3

MASDASHALEAALEQMDGIIAGTKTGADLSDGTCEPLASPASYMNPFPVLHLIEDLRLA  
LEMLELPQERAALLSQIPGPTAAYIKWFEESSLQVNHHSASNETYQERLARLEGDKES  
LILQVSVLTDQVEAQGEKIRDLEVCLEGHQVKLNAAEMLQQELLSRTSLETQKLDLMTE  
VSELKLLVGMEKEQREQEEKQRAEELLQELRHLKIKVEELENERNQYEWKLKATKAEV  
AQLQEQAALKDAEIERLHSQLSRTAALHSESHTERDQEIQR LKMGMETLLLANEDKDRRI  
EELTGLLNQYRKVKEIVMVTQGPSERTLSINEEEPEGGFSKWNATNKDPEELFKQEMPPR  
CSSPTVGPPPLPQKSLETRAQKKLSCSLEDLRSESVDKCMDGNQFPVLEPKDSPFLAEH  
KYPTLPGKLSGATPNGEAAKSPPTICQPDATGSSLLRLRDTESGWDDTAVVNDLSSTSSG  
TESGPQSPLTPDGKRNP KGIKKFWGKIRRTQSGNFYDTLGM AEFRRGGLRATAGPRLSR

TRDSKGQKSDANAPFAQWSTERVCAWLEDFGLAQYVIFARQWVSSGHTLLTATPQDMEKE  
LGIKHLPHRKKLVLAVKAINTKQEEKSALLDHIWVTRWLDDIGLPQYKQFHESRVDRRM  
LQYLTVNDLLFLKVTSQLHLSIKCAIHVLHVNFNPHCLHRRPADESNLSPSEVVQWSN  
HRVMEWLRSDLAEYAPNLRGSGVHGGLIILEPRFTGDTLAMLNIPPQKTLRRHLTTK  
FNALIGPEAEQEKREKMASPAYTPLTTTAKVRPRKLGFSHFGNIRKKKFDESTDYICPME  
PSDGVSDSHRVVSGYRGLSPLDAPELDGLDQVGQIS

>sp|P11150|LIPC\_HUMAN Hepatic triacylglycerol lipase OS=Homo sapiens GN=LIPC PE=1 SV=3

MDTSPLCFSILLVLCIFIQSSALGQSLKPEPFGRRQAQAVETNKTLEHMKTRFLLFGETNQ  
GCQIRINHPDTLQECGFNSSLPLVMI IHGWSVDGVLENWIWQMVAAALKSQPAQPVNVGLV  
DWITLAHDHYTIAVRNTRLVGKEVAALLRWLEESVQLSRSHVHLIGYSLGAHVSGFAGSS  
IGGTHKIGRITGLDAAGPLFEGSAPSNRLSPDDANFVDIHTFTREHMGLSVGIKQPIGH  
YDFYPNGGSFQPGCHFLELYRHIAQHGFNAITQTIKCSHERSVHLFIDSLLHAGTQSMAY  
PCGDMNSFSQGLCLSCCKGRCNTLGYHVRQEPRSKSKRFLVTRAQSPFKVYHYQFKIQF  
INQTETPIQTFTTMSLLGTKEKMQKIPITLGKGIASNKTYSLITLDVDIGELIMIKFKW  
ENSAVWANVWDTVTQTIIPWSTGPRHSGLVLKTIRVKAGETQQRMTFCSENTDDLLLRPTQ  
EKIFVKCEIKSKTSKRKIR

>sp|Q9Y5X9|LIPE\_HUMAN Endothelial lipase OS=Homo sapiens GN=LIPG PE=1 SV=1

MSNSVPLLCFWSLCYCAAGSPVPFGPEGRLEDKLHKPKATQTEVKPSVRFNLRSTKDPE  
HEGCYLSVGHSQPLEDCSFNMTAKTFFI IHGWTMSGIFENWLHKLVSALHTREKDANVVV  
VDWLPLAHQLYTDVANNTRVVGHSIARMLDWLQEKDDFSLGNVHLIGYSLGAHVAGYAGN  
FVKGTVGRITGLDPAGPMFEGADIHKRLSPDDADFVDVLHTYTRSFGLSIGIQMPVGHID  
IYPNGGDFQPGCGLNDVLGSIAYGTITEVVKCEHERAVHLFVDSL VNQDKPSFAFQCTDS  
NRFKKGICLSCRKNRNSIGYNAKKMRNKRNSKMYLKTRAGMPFRVYHYQMKIHVFSYKN  
MGEIEPTFYVTLYGTNADSQTLPLEIVERIEQNATNTFLVYTEEDLGDLLKIQLTWEGAS  
QSWYNLWKEFRSYLSQPRNPGRELNIRRIRVKSGETQRKLTFC TEDPENTSISPGRELWF  
RKCRDGRMRMKNETSPTVELP

>sp|Q5VXI9|LIPN\_HUMAN Lipase member N OS=Homo sapiens GN=LIPN PE=2 SV=2

MMWLLTTTCLICGTNLNAGGFLENEVNPEVWMNTSEIIYNGYPSEEYVTTEDGYIL  
LVNRIPYGRTHARSTGPRPVVYMQHALFADNAYWLENYANGSLGFLADAGYDVWGMNSR  
GNTWSRRHKTLESETDEKFWAFSFDMAKYDLPGVIDFIVNKTGQEKLYFIGHSLGTTIGF  
VAFSTMPELAQRIMNFALGPTISFKYPTGIFTRFLLPNSIIKAVFGTKGFFLEDKKT  
IASTKICNNKILWLCSEFMSLWAGSNKKNMNQRMDVYMSHAPTGS SVHNILHIKQLYH  
SDEFRAVDWGNADNMKHYNQSHPPIDYLTAMKVPTAIWAGGHDVLVTPQDVARILPQIK  
SLHYFKLLPDWNHFDVFWGLDAPQRMYS EIIALMKAYS

>sp|P16233|LIPP\_HUMAN Pancreatic triacylglycerol lipase OS=Homo sapiens GN=PNLIP PE=1 SV=1

MLPLWTL SLLGAVAGKEVCYERLGCFSDDSPWSGITERPLHILPWSPKDVNTRFLLYTN  
ENPNNFQEVAADSSSISGSNFKTRNRKTRFI IHGFIDKGEENWLANVCKNLFKVESVNCIC  
VDWKGSRTGYTQASQNIRIVGAEVAYFVEFLQSAFGYSPSNVHVIGHSLGAHAAGEAGR  
RTNGTIGRITGLDPAEPCFGQTPELVRLDPSDAKFVDVIHTDGAPIVPNLGFGMSQVVGH  
LDFFPNGGVEMPCKKNILSQIVDIDGIWEGTRDFAACNHLRSYKYYTDSIVNPDGFAGF  
PCASYNVFTANKCFPCPSGGCPQMGHYADRYPGKTNDVGQKFYLDTGDA SNFARWRYKVS  
VTLSGKKVTGHILVSLFGNKGNSKQYEIFKGTLPDSTHSNEFSDSDVDVGDLMVKFIWY  
NNVINPTLPRVGASKIIVETNVGKQFNFCSPETVREEVLLTLTPC

>sp|Q8IVB5|LIX1L\_HUMAN LIX1-like protein OS=Homo sapiens GN=LIX1L PE=2 SV=1

METMRAQRLQPGVGTSGRGTLRALRPGVTGAAAATATPPAGPPPAPPPPAPPPPLLSG  
APGLPLPPGAAGSPAVLREAVEAVVRSFAKHTQGYGRNVVVEALQEFWQMKQSRGADLKN  
GALVVYEMVPSNSPPYVCYVTLPGGSCFGSFQCPTKAEARRSAAKIALMNSVFNEHPSR  
RITDEFIEKSVSEALASFNGNREEADNPNTGIGAFRFMLESNKGKSMLEFQELMTVFQLL  
HWNGSLKAMRERQCSRQEVLAHYSHRALDDDIRHQMALDWVSREQSVPGALSRELASTER  
ELDEARLAGKELRFHKEKDDILVLAAGQLGNMHSSNC

>sp|P09960|LKHA4\_HUMAN Leukotriene A-4 hydrolase OS=Homo sapiens GN=LTA4H PE=1 SV=2

MPEIVDTCSLASPASVCRTKHLHLRCSVDFTRRTLGTAAALTQSQEDNLRSLVLDTKDL  
TIEKVVINGQEVKYALGERQSYKGSPMEISLPIALSKNQEIVIEISFETSPKSSALQWLT  
PEQTSKGHEPYLFSQCAIHCRAILPCQDTPSVKLTYYAEVSVPKELVALMSAIRDGETP  
DPEDPSRKIYKFIQKVI PCYLIALVVGALSRQIGPRTLWSEKEQVEKSAYEFSETES  
MLKIAEDLGGPYVWGQYDLLVLPSPFYGGMENPCLTFVTPTLLAGDKSLSNVIAHEISH  
SWTGNLVTNKTWDHFWLNEGHTVYLERHICGRLFGEKFRHFNALGGWGELQNSVKTFGET  
HPFTKLVDLTDIDPDVAYSSVPYEKGFALLFYLEQLLGGPEIFLGLKAYVEKFSYKSI  
TTDDWKDFLYSYFKDKVDVLNQVDWNAWLYSPGLPPIKPNYDMTLTNACIALSQRWITAK  
EDDLNSFNATDLKDLSSHQLNEFLAQLQRAPLPLGHIKRMQEVYNFNAINNSEIRFRWL  
RLCIQSKWEDA IPLALKMATEQGRMKFTRPLFKDLAAFDKSHDQAVRTYQEHKASMPVT  
AMLVGKDLKVD

>sp|P02545|LMNA\_HUMAN Prelamin-A/C OS=Homo sapiens GN=LMNA PE=1 SV=1

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLR  
LRITSEEEVVSREVSIGKAAYEAE LGDARKTLDVAKERARLQLELSKVREEFKELKARN  
TKKEGDLIAAARLKDLEALLNSKEAALSTALSEKRTLEGELHDLRGQVAKLEAALGEAK  
KQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRRHETRLVEIDNGKQREFESR  
LADALQELRAHQHEDQEYKKELEKTYSAKLDNARQSAERN SNLVGAAHEELQQSRIRID  
SLSAQLSQLQKLAKEAKLRDLED SLARERDTSRRLLAEKEREMAEMRARMQQQLDEYQ  
ELLDIKLALDMEIHAYRKLLEGEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKRK  
LESTESRSSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNE DQSMGNWQIKRQNGDDPLLT  
YRFPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWGCNSLRTALINSTGEEVAM  
RKLVRSVTVVEDDEDEDGDDLHHHHGSHCSSSGDPAEYNLR SRTVLCGTCGPADKASA  
SGSGAQVGGPISSGSSASSVTVTRSYRSVGGSGGGSFGDNLVTRSYLLGNSSPRTQSPQN  
CSIM

>sp|Q9C0E8|LNP\_HUMAN Protein lunapark OS=Homo sapiens GN=LNP PE=1 SV=2

MGLFSRWRTKPSTVEVLESIDKEIQALEEFREKNQRLQKLWVGRLILYSSVLYLFTCLI  
VYLWYLPDEFTARLAMTLPPFAFPLIIWSIRTVIIFFFSKRTERNNEALDDLKSQRKKIL  
EEVMEKETYKTAKLILERFDPDSKKAKECEPPSAGAAVTARPGQEIRQRTAAQRNLSPTP  
ASPNGQPPPQVPVSPGPPKDSSAPGGPPERTVTPALSSNVLPRLHLSGSPATSVPGMGLHPP  
GPPLARPILPRERGALDRIVEYLVGDGPQNR YALICQQCFSHNGMALKEEFYIAFR CAY  
CFFLNPARKTRPQAPRLPEFSFEKRQVVEGSSSVGPLSGSVLSSDNQFN EESLEHDVLD  
DNTEQTD DKIPATEQTNQVIEKASDSEEP EEKQETENEEASVIETNSTVPGADSI DPPEL  
SGESLTAE

>sp|Q643R3|LPCT4\_HUMAN Lysophospholipid acyltransferase LPCAT4 OS=Homo sapiens GN=LPCAT4  
PE=1 SV=1

MSQGS PGDWAPLDPTPGPPASPNPFVHELHLSRLQRVKFCLLGALLAPIRVLLAFIVLFL

LWPFQAWLQVAGLSEELQEPITGWRKTVCHNGVLGLSRLFFLLGFLRIRVRGQRASRLQ  
APVLVAAPHSTFFDPIVLLPCDLPKVVSRAENLSVPVIGALLRFNQAILVSRHDPASRRR  
VVEVRRRATSGGKWPQVLFPEGTCSNKKALLKFKPGAFIAGVPVQPVLI RYPNSLDTT  
SWAWRGPVGLKVLWLTASQPCSIDVFEFLPVYHPSPEESRDPTLYANNVQRVMAQALGIP  
ATECEFGSLPVIIVGRLKVALEPQLWELGKVLKAGLSAGYVDAGAEPGRSRMISQEEF  
ARQLQLSDPQTVAGAFGYFQQDTKGLVDFRDVALALAALDGGRSLEELTRLAFELFAEEQ  
AEGPNRLLYKDGSTILHLLGSPHPAATALHAELCQAGSSQGLSLCQFQNFSLHDPLYG  
KLFSTYL RPPHTSRGTSQTPNASSPGNPTALANGTVQAPKQKGD

>sp|Q16719|KYNH\_HUMAN Kynureninase OS=Homo sapiens GN=KYNH PE=1 SV=1

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLS  
LVNKDENAIYFLGNSLGLQPKMVKTYLEEELDKWAKIAAYGHEVGKRPWITGDESIVGLM  
KDIVGANEKEIALMNALTVNLHLLMLSFFKPTPKRYKILLEAKAFPSDHYAIESQLQLHG  
LNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHFYTGQHFNIPAITKAG  
QAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP  
ALVGWFGHELSTRFKMDNKLQIPGVCGRISNPPILLVCSLHASLEIFKQATMKALRKK  
SVLLTGYLEYLKHNHYGDKAATKKPVVNIITPSHVEERGQQLTITFSVPNKDVFQELEK  
RGVVC DKRNPNGIRVAPVPLYNFHDVYKFTNLLTSILDSAETKN

>sp|P42166|LAP2A\_HUMAN Lamina-associated polypeptide 2, isoform alpha OS=Homo sapiens  
GN=TMPO PE=1 SV=2

MPFLEDPSVLTKDKLKSELVANNVTLPAGEQRKDVYVQLYLQHLTARNRPPLPAGTNSK  
GPPDFSSDEEREPTVLGSGAAAAGRSRAAVGRKATKKTDKPRQEDKDDL DVTEL TNEDL  
LDQLVKYGVNPGPIVGTTRKLYEKKLLKREQGTESRSSTPLPTISSSAENTRQNGSND  
DRYSDNEEGKKKEHKVKSTRDIVPFSELGTTSPGGGFFQGIFPEISTRPPLGSTELQA  
AKKVHTSKGDLPREPLVATNLPRGQLQLASERNLFISCKSSHDRCLEKSSSSSSQPEH  
SAMLVSTAASPLIKETTTGYKDIVENICGREKSGIQPLCPERSHISDQSPLSSKRKAL  
EESESSQLISPLAQAIRDYVNSLLVQGGVSLPGTSNSMPPLDVENIQKRIDQSKFQET  
EFLSPPRKVPRLSEKSVEERDSGSFVAFQNI PGSELMSSFAKTVVSHSLTTLGLEVAKQS  
QHDKIDASELSFPFHESILKVIIEEWQVDRQLPSLACKYPVSSREATQILSVPKVDDEI  
LGFISEATPLGGIQAATESCNQQLDLALCRAVEAAASALQIATHTAFVAKAMQADISQA  
AQILSSDPSRTHQALGILSKTYDAASYICEAAFDEVKMAAHTMGNATVGRRYLWLKCKI  
NLASKNKLASTPFKGGTLFGGEVCKVIKKRGNKH

>sp|P42167|LAP2B\_HUMAN Lamina-associated polypeptide 2, isoforms beta/gamma OS=Homo  
sapiens GN=TMPO PE=1 SV=2

MPFLEDPSVLTKDKLKSELVANNVTLPAGEQRKDVYVQLYLQHLTARNRPPLPAGTNSK  
GPPDFSSDEEREPTVLGSGAAAAGRSRAAVGRKATKKTDKPRQEDKDDL DVTEL TNEDL  
LDQLVKYGVNPGPIVGTTRKLYEKKLLKREQGTESRSSTPLPTISSSAENTRQNGSND  
DRYSDNEEDSKIELKLEKREPLKGRKTPVTLKQRRVEHNQSYQAGITETEWTS GSSKG  
GPLQALTRESTRGSRRTPKRKRVETSEHFRIDGPVISESTPIAETIMASSNESLVNVRTG  
NFKHASPILPITEFSDIPRRAPKKPLTRAEVGEKTEERRVERDILKEMFPYEASTPTGIS  
ASCRRPKGAAGRPLELSDFRMEESFSSKYVPKYVPLADV KSEKTKGRSIPVWIKILLF  
VVVAVFLFLVYQAMETNQVNPFSNFLHVDPRKSN

>sp|Q13571|LAPM5\_HUMAN Lysosomal-associated transmembrane protein 5 OS=Homo sapiens  
GN=LAPM5 PE=1 SV=1

MDPRLSTVRQTCCCFNVRIATTALAIYHIVMSVLLFIEHSVEVAHGKASCKLSQMGYLRI

ADLISSFLITMLFIISLSLLIGVKNREKYLLPFLSLQIMDYLLCLLTLLGSYIELPAY  
LKLASRSRASSSKFPLMTLQLLDFCLSILTLCSYMEVPTYLNFKSMNHMNYLPSQEDMP  
HNQFIKMMIIFSIAFITVLIFKVMFKCVWRCYRLIKMNSVEEKRNSKMLQKVVLPSYE  
EALSLSKTPEGGPAPPYSEV

>sp|Q9Y4W2|LAS1L\_HUMAN Ribosomal biogenesis protein LAS1L OS=Homo sapiens GN=LAS1L PE=1 SV=2

MSWESGAGPGLGSQGMDLVWSAWYGKCVKGKGSPLSAHGIVVAWLSRAEWDQVTYVLC  
DDHKLQRYALNRITVWRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALV  
RFVNLISERKTKFAKVLKCLAQEVNIPDWIVDLRHELTHKKMPHINDCRRGCYFVLDWL  
QKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQKPEPQDDGKSTESDV  
KADGDSKGSSEVDSHCKKALSHKELYERARELLVSYEEEQFTVLEKFRYLPKAIKAWNNP  
SPRVECVLAEKGVTCENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTD  
PKSHKNVDLNDVLVPKPFQFWQPLLRLHLSQNFTQALLERMLSELPALGISGIRPTYIL  
RWTVELIVANTKTGRNARRFSAGQWEARRGWRLFNCSASLDWPRMVESCLGSPCWASPQL  
LRIIFKAMGQGLPDEEQEKLLRICSIYTSQGENSLVQEGSEASPIGKSPYTLDSLYWSVK  
PASSSFGSEAKAQQQEEQGSVNDVKEEKEEKEVLPDQVEEEEENDDQEEEEDEDEDDED  
EEEDRMEVGPSTGQESPTAENARLLAQKRGALQGSQVSSQVSDVQVDFPLGRMPGQTE  
DPAELMLENYDTMYLLDQPVLEQRLEPSTCKTDTLGLSCGVGSGNCSNSSSNFEGLLWS  
QGQLHGLKTGLQLF

>sp|P18428|LBP\_HUMAN Lipopolysaccharide-binding protein OS=Homo sapiens GN=LBP PE=1 SV=3

MGALARALPSILLALLLTSTPEALGANPGLVARITDKGLQYAAQEGLLALQSELLRITLP  
DFTGDLRIPHVGRGRYEFHSLNIHSCCELLHSALRPVPGQGLSLSISDSSIRVQGRWKVRK  
SFFKLQGSFQVSVKGISISVNLGLGSESSGRPTVTASSCSSDIADVEVDMSGDLGWLLNL  
FHNQIESKFQKVLESRICEMIQKSVSSDLQPYLQTLPTTEIDSFADIDYSLVEAPRATA  
QMLEVMFKGEIFHRNHRSPVTLAAVMMLPEEHNMVYFAISDYVFNTASLVYHEEGYLN  
FSITDDMIPDSNIRLTTSKFRPFVPRRLARLYPNMNLQGSVPSAPLLNFSPGNLSVDP  
YMEIDAFVLLPSSSKEPVFRLSVATNVSATLTFNTSKITGFLKPGKVKVELKESKVGLFN  
AELLEALLNYYILNTFYKFNKLAEGFPLPLLKRVQLYDLGLQIHKDFLFLGANVQYMR  
V

>sp|Q71F78|LCA10\_HUMAN Putative lung carcinoma-associated protein 10 OS=Homo sapiens GN=LCA10 PE=2 SV=1

MSSCPVHDCPSWDPERLEPVETGSRGALRLRGAPGSAAGFRASIWGPAGYPSPVGLGHP  
ASLPRPAYSPRCPEPDARHGWGSGSNAGYRGPDRAGRTPCPAQDREGRSSSPVPPRLKA  
MTSQARKQNGGALIDTVDWTREAPSDPVMSMQKTQKPQTTVGQ

>sp|Q96DT0|LEG12\_HUMAN Galectin-12 OS=Homo sapiens GN=LGALS12 PE=1 SV=1

MSQPSGGRAPGTRIYSWSCPTVMSPGEKLDPIPDSFILQPPVFHPVVPYVTTIFGGLHAG  
KMVMLQGVPPLDAHRFQVDFQCGCSLCPRPDIAFHFNPRFHTTKPHVICNTLHGGRWQRE  
ARWPHLALRRGSSFLILFLFGNEEVKVSUNGQHFHFRYRLPLSHVDTLGIFGDILVEAV  
GFLNINPFVEGSREYPAGHPFLMSPRLEVPCSHALPQGLSPGQVIIVRGLVLQEPKHFT  
VSLRDQAAHAPVTLRASFADRTLAWISRWGQKKLISAPFLFYPPQRFQFEVLLLFQEGGLKL  
ALNGQGLGATSMNQQAELRELRIQSVQLYCVHS

>sp|Q96PV6|LENG8\_HUMAN Leukocyte receptor cluster member 8 OS=Homo sapiens GN=LENG8 PE=1 SV=2

MAANVGQQRSTDWSSQYSMVAGAGRENGMETPMHENPEWEKARQALASISKGAAGGSAK

SSSNGPVASAQYVSQAEASALQQQQYYQWYQQYNYAYPYSYYYPMPPVPGMDESMSYQAP  
PQQLPSAQPPQPSNPPHGAHTLNSGPQPGTAPATQHSQAGPATGQAYGPHTYTEPAKPKK  
GQQLWNRMKPAPGTGGLKFNIQKRPFVTTQSFGSNAEGQHSGFGPQPNPEKVQNHSGSS  
ARGNLSGKPDWPQDMKEYVERCFTACESEEDKDRTEKLLKEVLQARLQDGSAYTIDWSR  
EPLPGLTREPVAESPKKKRWEAASSLHPPRGAGSATRGGGAPSQRGTPGAGGAGRARGNS  
FTKFGNRNVFMKDNSSSSSTDSRSRSSSRSPTRHFRRSDSHSDSDSSYSGNECHPVGRRN  
PPPKGRGGRGAHMDRGRGRAQRGKRHDLAPT KRSRKMAALECEDPERELKKQKRAARFQ  
HGHSRRLRLEPLVLQMSLESSGADPDWQELQIVGTCPDITKHYLR LTCAPDPSTVRPVA  
VLKSLCMVKCHWKEKQDYAFACEQMKSI RQDLTVQGIRTEFTVEVYETHARIALEKGDH  
EEFNQCQTQLKSLYAENLPGNVGEFTAYRILYYIFTKNSGDITTELAYLTRELKADPCVA  
HALALRTAWALGNYHRFRRLYCHAPCMSGYLVDFADRERKVALKAMIKTYVVPSSLLPL  
LFPSFRLVSSCIKLSPCPLLPLPPVFLLIFFSPFPPLSAFFPWFSTGKTVPLPPSSAM

>sp|Q9BXB1|LGR4\_HUMAN Leucine-rich repeat-containing G-protein coupled receptor 4 OS=Homo sapiens GN=LGR4 PE=1 SV=2

MPGPLGLLCFLALGLLSAGPSGAAPPLCAAPCSCDGRRVDCSGKGLTAVPEGLSAFTQ  
ALDISMNNITQLPEDAFKNFPFLEELQLAGNDLSFIHPKALSGLKELKVLTLQNNQLKTV  
PSEAIRGLSALQSLRLDANHITSVPEDSFEGVLQRLHLWDDNSLTEVPVHPLSNLPTLQ  
ALTALANKISSIPDFAFTNLSSLVVLHLHNNKIRSLSQHCFDGLDNLTLDLNYYNLGEF  
PQAIKALPSLKELGFSNSISVIPDGAFDGNPLLRTIHLVDNPLSFGNSAFHNLSDLHS  
LVIRGASMVQQFPNLGTGVHLESLTLTGTKISSIPNNLCQEQLMLRTLDLSYNNIRDLPS  
FNGCHALEEISLQRNQIYQIKEGTFQGLISLRILDSRNLIEIHSRAFATLGPITNDV  
SFNELTSFPTGLNGLNQLKLGVNFKLKEALAAKDFVNLRSLSVPYAYQCCAFWGCDSYA  
NLNTEDNSLQDHSVAQEKGTADAANVTSTLENEEHSQIIHCTPSTGAFKPC EYLLGSWM  
IRLTVWFIFLVALFFNLLVILTTFASCTSLPSSKLFIGLISVSNLFMGIYTGILTFDAV  
SWGRFAEFGIWWETGSGCKVAGFLAVFSSESAIFLLMLATVERSLSAKDIMKNGKSNHLK  
QFRVAALLAFLGATVAGCFPLFHRGEYSASPLCLPFPTGETPSLGFTVTLVLLNSLAFL  
MAVIYTKLYCNLEKEDLSENSQSSMIKHVAWLIFTNCFPCVAFFSFAPLITAISSPE  
IMKSVTLIFFPLPACLNPVLYVFFNPKFKEDWKLKRRVTKKSGSVSVSISSQGGCLEQD  
FYYDCGMYSHLQGNLTVDCCESFLLTKPVCKHLIKSHSCPALAVASCQRPEGYWSDCG  
TQSAHSDYADEEDSFVSDSDQVQACGRACFYQSRGFPLVRYAYNLPRVKD

>sp|Q969G2|LHX4\_HUMAN LIM/homeobox protein Lhx4 OS=Homo sapiens GN=LHX4 PE=1 SV=2

MMQSATVPAEGAVKGLPEMLGVPMQQIPQCAGCNQHILDKFILKVLDRHWHSSCLKCADC  
QMQLADRCFSRAGSVYCKEDFFKRFGTKCTACQQGIPPTQVVRKAQDFVYHLHCFACIIC  
NRQLATGDEFYLMEDGRLVCKEDYETAKQNDSEAGAKRPRTTITAKQLET LKNAYKNSP  
KPARHVREQLSSETGLDMRVVQVWFQNRRAKEKRLKKDAGRHRWGQFYKSVKRSRGSSKQ  
EKESSAEDCGVSDSELSFREDQILSELGHTNRIYGNVGDVTGGQLMNGSFMSMDGTGQSYQ  
DLRDGSPYGIPQSPSSISSLP SHAPLLNGLD YTVDSNLGIIAHAGQGVSTLRAMAGGPT  
SDISTGSSVGYPDFPTSPGSWLDEMDHPPF

>sp|P15018|LIF\_HUMAN Leukemia inhibitory factor OS=Homo sapiens GN=LIF PE=1 SV=1

MKVLAAGVVPLLLVLHWKHGAGSLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSAN  
ALFILYYTAQGEPPNNDKLCGPNVTDFPFPHANGTEKAKLVELYRIVVYLGTS LGNIT  
RDQKILNPSALSLSHKL NATADILRGLLSNVLCRLCSKYHVGHVDV TYGPD TSGKDV FQK  
KKLGCQLLGKYKQIIAVLAQAF

>sp|Q9UGP4|LIMD1\_HUMAN LIM domain-containing protein 1 OS=Homo sapiens GN=LIMD1 PE=1 SV=1

MDKYDDLGLEASKFIEDLNMYEASKDGLFRVDKGAGNNPEFEETRRVFATKMAKIHLLQQQ  
QQQLLQEETLPRGSRGPVNGGGRLGPQARWEVVGSKLTVDGAAPPLAASTGAPGAVTTL  
AAGQPPYPPEQSRSPYLHGTRHGSQDCGSRESLATSEMSAFHQPGPCEDPSCLTHGDYY  
DNLASLSPKWGDKPGVSPSISLVSWSGWPSSPGSDPPLPKPCGDHPLNHRQLSLSSSRSS  
EGSLGGQNSGIGGRSSEKPTGLWSTASSQRVSPGLPSPNLENGAPAVGPVQPRTPSVSAP  
LALSCPRQGGLPRNSNGLGGEVSGVMSKPNVDPQPFQDGPQSYLSSSAPSSSPAGLDGS  
QQGAVPGLGPKPGCTDLGTGPKLSPTSLVHPVMSTLPELSCKEGLWSSDGLGSLVLLD  
SPSSPRVRLPCQPLVPGPELRPSAAELKLEALTQRLEREMDAHPKADYFGACVKCSKGVF  
GAGQACQAMGNLYHDTCTCAACSRKLRGKAFYFVNGKVFCEEDFLYSGFQQSADRCFLC  
GHLIMDMILQALGKSYHPGCFRCVICNECLDGVPTVDSENKIYCVRDYHKVLAPKCAAC  
GLPILPPEGSDETIIRVVSMDRDYHVECYHCEDCGLELNDEEDGHRCPLEDHLFCHSCHVK  
RLEKRPSSTALHQHHF

>sp|P48059|LIMS1\_HUMAN LIM and senescent cell antigen-like-containing domain protein 1  
OS=Homo sapiens GN=LIMS1 PE=1 SV=4

MANALASATCERCKGGFAPAEEKIVNSNGELYHEQCFCVCAQCFQQFPEGLFYEFEGRKYCE  
HDFQMLFAPCCHQCCEFIIGRVIKAMNNSWHPECFRCDLCQEVADIGFVKNAGRHLCRP  
CHNREKARGLGKYICQKCHAIIDEQPLIFKNDPYHPDHFNCANGKELTADARELKGELY  
CLPCHDKMGVPICGACRRPIEGRVNVAMGKQWHVEHFVCAKCEKPFGLGHRHYERKGLAYC  
ETHYNQLFGDVCFHNRVIEGDVVSALNKAWCVNCFACSTCNTKLTNKNKFEFDMKPVC  
KKCYEKFPLELKKRLKLAETLGRK

>sp|Q8NG48|LINES\_HUMAN Protein Lines homolog 1 OS=Homo sapiens GN=LINS1 PE=2 SV=2

MKVFCVLEELYKKVLLGATLENDSDYIFYLNPAVSDQDCSTATSLEWANTCGIQGRHQ  
PISGVVAPIAVAPVCLKTNSQMSGSRVMLLQLTVIKVMTTRILSVKTEFHAKQYRDVI  
KILLESKVDKSLICMFQNSDKLLSHMAAQCLALLYFQLREKITLSNSWIAFCQKNLSE  
YSESNKAIYCLWTLTAIIEIKFDCSCSQKTEILKQFLTHFDITFEVFNLSLFSQHFENCR  
DTSKIVNILMCFDLLELLIASRIHLKLHFTCQRILFLKPSMCEVITWPIQAFVKKRVI  
IFLKKCLLCKVGEDLCRGSVPALMPPDHHVAVDMLALANAVLQAVNSGLLKTLSVYEKHS  
FFGGDEVQPECELITSPDHVILRAASLVIMKSLEIKFQNYSSASEVKVDLQRFMSSELLTF  
LKPHLQPSLQLHNPCKWLSRVFIEQDDDMLEAAKASLGIYLTTRGCEATESLTQKEMW  
DHHTHENGYNPHCIFLFFLKNIGFDSTVLLDFLISSETCFLEYFVRYLKLLQKWDNFFT  
ICNNFDATESKYDISICGCVPSLVQDQSSNQTIPIHRLTAPHSHRDVCARHSWASDAPSEP  
LKAVMSKGAHTMCASSLSPRASQSLVDYDSSDDSDVESTEQCLANSKQTSLHQATKEI  
QDAAGTSRDKKEFSLEPPSRPLVLKEFDTAFSFDCEVAPNDVVSEVGIFYRIVKCFQELQ  
DAICRLQKKNLFPYNPTALLKLLKYIEVISNKTMTL

>sp|P07098|LIPG\_HUMAN Gastric triacylglycerol lipase OS=Homo sapiens GN=LIPF PE=1 SV=1

MWLLLTMASLISVLGTTHGLFGKLHPGSPEVTMNISQMITYWGYPNEEYEVVTEGYILE  
VNRIPYGKKNSGNTGQRPVVFLLQHGLLASATNWNISNLPNNSLAFILADAGYDVWLGNRSG  
NTWARRNLYYSPDSVEFWAFSFDMAKYDLPATIDFIVKKTGQKQLHYVGHSQGTIGFI  
AFSTNPSLAKRIKTFYALAPVATVKYTKSLINKLRFVPQSLFKFIFGDKIFYPHNFFDQF  
LATEVCSREMLNLLCSNALFIICGFDSKNFNTRSRLDVYLSHPAGTSVQNMFWHTQAVKS  
GKFQAYDWGSPVQNRMHYDQSPPYYNVTAMNVPIAVWNGGKDLLADPQDVGLLLPKLPN  
LIYHKEIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKK

>sp|Q5W064|LIPJ\_HUMAN Lipase member J OS=Homo sapiens GN=LIPJ PE=2 SV=3

MNISQIISYWGYPDEEYDIVTEDGYILGLYRIPYWRDNNKNLAQRVVVYLQHGLLTSAS



SWISNLPNNSLGFILADAGYDVWMCNSRGNTWSRKHLYLETSSKEFWAFSFDMAKYDLP  
ASIDFTVKQTRQEEIFYVGHSQGTITGIFITSTISKIAERIKIFFALAPVFSTKYLKSPL  
IRMTYKWSIVMAFSGNKDFLPKTSFKKFIGSKLCPLQIFDKICLNILFMMFGYDPKNLN  
MSRLDVYFSHNPAGTSVQNMLHWSQLLNSTHLKAYDWGSPDLNLVHYNQTTSPLYNMTNM  
NVATAIWNGKSDLLADPEDVNILHSEITNHIYKTI SYYNHIDSLFGLDVYDQVYHEIID  
IIQDNL

>sp|A6NK58|LIPT2\_HUMAN Putative lipoyltransferase 2, mitochondrial OS=Homo sapiens  
GN=LIPT2 PE=3 SV=1

MRQPAVRLVRLGRVPYAELLGLQDRWLRRLLQAEPGIEAPSGTEAGALLLCEPAGPVYTAG  
LRGGLTPEETARLRALGAEVRTGRGGLATFHGPGQLLCHPVLDLRRLLGLRLRMHVASLE  
ACAVRLCELQGLQDARAPPPYTGWLDLDRKICAIGVRCGRHITSHGLALNCSTDLTWFE  
HIVPCGLVGTGVTSLSKELQRHVTVEEVMPPFLVAFKEIYKCTLISEDSPN

>sp|Q9BRT6|LLPH\_HUMAN Protein LLP homolog OS=Homo sapiens GN=LLPH PE=1 SV=1

MAKSLRSKWKRKMRAEKRRKNAPKEASRLKSILKLDGDLMKDVQEIATVVVPKPKHCQE  
KMQCEVKDEKDDMKMETDIKRKKTLDDQHGGYPIWMNQQRKRLKAKREKRKGKSKAKA  
VKVAKGLAW

>sp|Q9HAT1|LMA1L\_HUMAN Protein ERGIC-53-like OS=Homo sapiens GN=LMAN1L PE=2 SV=2

MPAVSGPGLFCLLLLLLDPHSPETGCPPLRRFEYKLSFKGPRLALPGAGIPFWSHHGDA  
ILGLEEVRLTPSMNRNSGAVWSRASVPFSAWEVEVQMRVTGLGRRGAQGMVWYTRGRGH  
VGSVLGGLASWDGIGIFFDSPAEDTQDSPAIRVLASDGHIPSEQPGDGASQGLGSCHWDF  
RNRPHPFRRARITYWGQRLRMSLNSGLTPSDPGEFCVDVGPLLLVPGGFFGVSAATGTLAD  
DHDVLSFLTFSLSEPSPEVPPQPFLEMQLRLARQLEGLWARLGLGTREDVTPKSDSEAQ  
GGERLFDLEETLGRHRRILQALRGLSKQLAQAERQWKKQLGPPGQARPDGGWALDASCQ  
IPSTPGRGGHLSMSLNKDSAKVGALLHGQWTLLQALQEMRDAAVRMAAEQVSYLPVGIE  
HHFLELDHILGLLQEELRGPAKAAKAPRPPGQPPRASSCLQPGIFLFYLLIQTVGFFGY  
VHFRQELNKSLECLSTGSLPLGPAPHTPRALGILRRQPLPASMPA

>sp|Q9Y468|LMBL1\_HUMAN Lethal(3)malignant brain tumor-like protein 1 OS=Homo sapiens  
GN=L3MBTL1 PE=1 SV=3

MRRREGHGTDSMGGPVRRESQSSDPPALQFRISEYKPLNMAGVEQPPSPELRQEGVTEY  
EDGGAPAGDGEAGPQQAEDHPQNPPEDPNQDPPEDDSTCQCQACGPHQAAGPDLGSSNDG  
CPQLFQERSVIVENSSTGSAEILLKPMKKRRKRREYQSPSEEESEPEAMEKQEEGKDPEG  
QPTASTPESEEWSSSQPATGEKKECWSWESYLEEQKAITAPVSLFQDSQAVTHNKNQFKL  
GMKLEGIDPQHPSMYFILTVAEVCYRLRLHFDGYSECHDFWVNANSPDIHPAGWFECTG  
HKLQPPKGYKEEEFSWSQYLRSTRAQAAPKHLFVSQSHSPPLGFQVGMKLEAVDRMNPS  
LVCVASVTDVDSRFLVHFDNDDTYDYWCDPSSPYIHPVGCQKQKGLTPPDYDPDP  
NFCWEKYLEETGASAVPTWAFKVRPPHSFLVNMKLEAVDRRNPALIRVASVEDVEDHRIK  
IHFDGWSHGYDFWIDADHPDIHPAGWCSKTGHPLQPPLGPREPSSASPGGCPPLSYRSLP  
HTRTSKYSFHHRCPTPGCDGSGHVTGKFTAHHCLSGCPLAERNQSRLKAELSDSEASAR  
KKNLSGFSRKKPRHHGRIGRPPKYRKIPQEDFQTLTPDVVHQSLFMSALSAPDRSLSV  
CWEQHCKLLPGVAGISASTVAKWTIDEVFGFVQTLTGCEQARLFKDEMIDGEAFLLLTQ  
ADIVKIMSVKLGPAIKIYNAILMFKNADDTLK

>sp|Q8NA19|LMBL4\_HUMAN Lethal(3)malignant brain tumor-like protein 4 OS=Homo sapiens  
GN=L3MBTL4 PE=1 SV=2

MKQPNRKRKLNMDSKERLDQDGRLEQAEEEEKPKDSTTPLSHVPSAAAQGAWSWEWYLKE

QKAVAAPVELFSKQSFPEHENGFIQIMRLEGIDPRHPSVFCVLSVAEVCGYRLRLHFDG  
YLSCYDFWTNAGSPDIHPVGWCEKTKHELHIPKGYRKDKFVWMDYLKACKLQNAPKKLFR  
NRSPNGPMSKEFQVGMKLEAVDRKNPSLVCVATIADIVEDRLLVHFDNWDDSYDYWCDVN  
SPYVQPVGWCQENGRTLIAPQGYNPENFSWTEYLEATQTNAPPAKVFKMRLPHGFLPNM  
KLEVVDKRNPRILRVATIVDQDQVVKVHFDGWDHKKYDYWVEADSPDIHPIGWCDVTGHP  
LEVPRTRNDLKILPGQAVCPTPGCRGIGHIRGPRYSGHHSAGFCPYSDMNLKKEATLHDR  
LREQTQANLESDDSSHSKSLCSLNFNGKHEKVNSQPRLVQQAQCLIKGKEDIDLNL  
RVLVLHPRGLEYSVEQAQQVLHQSVSMSTVSAHPFRDLPLGREQHCKLLPGVADIRASQV  
ARWTVDEVAEFVQSLGCEEHAKCFKKEQIDGKAFLLLTQTDIVKVMKIKLGPALKIYNS  
ILMFRHSQELPEEDIASGQEVGR

>sp|Q6P5Q4|LMO2\_HUMAN Leiomodin-2 OS=Homo sapiens GN=LMO2 PE=1 SV=2

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TGTFREALMAYWEKESQKLEKERLGECGKVAEDKEESEELIFTESNSEVSEEVYTEE  
EEEEEQEEEEEDSDEEERTIETAKINGTVNYDSVNSDNPKPKIFKSQIENINLTNGSN  
GRNTESPAAIHPCGNPTVIEDALDKIKSNPDTEVNLNNIENITTQTLTRFAEALKDNT  
VVKTFSLANTHADDAAIAEMLKVNEHITNVNVSNTITGKGILAIMRALQHNTVLTE  
LRFHNQRHIMGSQVMEIVKLLKENTLLRLGYHFELPGPRMSMTSILTRNMDKQRQKRL  
QEQKQEGYDGGPNLRTKVWQRGTPSSSPYVSPRHSPWSSPKLPKKVQTVRSRPLSPVAT  
PPPPPPPPPPPPSSQRLPPPPPPPPPLPEKKLITRNIAEVIKQESAQRALQNGQKKK  
KGKKVKKQPNILKEIKNSLRVQEKKMEDSSRPSTPQRSAHENLMEAIRGSSIKQLKRV  
EVPEALR

>sp|Q0VAK6|LMO3\_HUMAN Leiomodin-3 OS=Homo sapiens GN=LMO3 PE=1 SV=1

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PPTGNFNHKSVDYMYWEKASRRMLEEERVPTVFKSEEKQEEHEEIEKRKNMAQYLK  
EKLNEIVANKRESKGSSNIQETDEDEDEDEDDDDDEGEDDGESEETNREEEGKAKEQ  
IRNCENNCQQVTDKAFKEQRDRPEAQEQSEKKISKLDPKKLALDTSFLKVSTRPSGNQTD  
LDGSLRRVRKNDPDMKELNLNNIENIPKEMLLDFVNAMKKNKHICTFSLANVGADENAF  
ALANMLRENRSITTLNIESNTITGKGIVAIMRCLQFNETLTELRFHNQRHMLGHHAEME  
ARLLKANNTLLKMGYHFELPGPRMVVTNLLTRNQDKQRQKQEEQKQQLKEQKKLIAM  
ENGLGLPPGMWELLGGPKPDSRMQEFFQPPPPRPPNPQNVFSPQRSEMMKKPSQAPKYRT  
DPDSFRVVKLKRIQRKSRMPEAREPPEKTNLKDVIKTLKPVRNRPPLVEITPRDQLLN  
DIRHSSVAYLKPVQLPKELA

>sp|Q9H9P8|L2HDH\_HUMAN L-2-hydroxyglutarate dehydrogenase, mitochondrial OS=Homo sapiens  
GN=L2HGDH PE=1 SV=3

MVPALRYLVGACGRARGLFAGGSPGACGFASGRPRPLCGGSRASSTSSFDIVIVGGGIVG  
LASARALILRHPSLSIGVLEKEKDLAVHQTGHNSGVIHSGIYYKPESLKAKLCVQGAALL  
YEYCCQKGISYKQCGKLIVAVEQEEIPRLQALYKGLQNGVPGLRLIQQEDIKKKEPYCR  
GLMAIDCPHTGIVDYRQVALSFAQDFQEAGGSVLTNFEVKGIEMAKESPSRSIDGMQYPI  
VIKNTKGEEIRCQYVVTAGLYSDRISELGCTPDPRIVPFRGDYLLKPEKCYLVKGN  
YPVPDSRFPFLGVHFTPRMDGSIWLGPNVLAFAKREGYRPFDFSATDVMIIINSLIKL  
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FDAGVGDIGNRILHVRNAPSPAATSSIAISGMIADEVQQRREL

>sp|POCG04|LAC1\_HUMAN Ig lambda-1 chain C regions OS=Homo sapiens GN=IGLC1 PE=1 SV=1

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>sp|Q16363|LAMA4\_HUMAN Laminin subunit alpha-4 OS=Homo sapiens GN=LAMA4 PE=1 SV=4

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PPAAEKCNAFFHTLSGECVPCDCNGNSNECLDGSYCVHCQRNTTGEHCEKCLDGYIGD  
SIRGAPQFCQPCPCPLPHLANFAESCYRKNQAVRCICNENYAGPNCERCAPGGYGNPLLI  
GSTCKKCDSCGNSDPNLI FEDCDEV TGQCRNCLRN TTGFKCERCAPGGYGDARIAKNCV  
CNCGGGPCDSVTGECLEEGFEPPTGMDCTISCDKCVWDLTDALRLAALSIEEGKSGVLS  
VSSGAAHRHVNEINATIYLLKTKLSERENQYALRKIQINNAENTMKSLLSDVEELVEKE  
NQASRKGLVQKESMDTINHASQLVEQAHDMDRKIQEINNKMYYGEEHELSPKEISEKL  
VLAQKMLEEIRSRQPFFTQRELVDDEADEAYELLSQAESWQRLHNETRTLFPVVLEQLDD  
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LTPRLTSELDDIIKNASGIYAEIDGAKSELQVKLSNLSNLSHDLVQEAIDHAQDLQQE  
ANELSRKLHSSDMNGLVQKALDASNVIYENIVNYVSEANETAEFALNTDRIYDAVSGIDT  
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AAERGAQQRLGQSRLITEANRTMEVQQATAPMANNLTNWSQNLQHFDSAYNTAVNS  
ARDAVRNLTEVVPQLLDQLRTVEQKRPASNVSASIQRIRELIAQTRSVASKIQVSMMFDG  
QSAVEVHSRTSMDDLKAFSTSLYMKPPVKRPELTETADQFILYLGSKNAKEYMGLAIK  
NDNLVYYNLTGKDVEIPLDSKPVSSWPAYFSIVKIERVKGKGVFLTVPSLSSTAEEKF  
IKKGEFSGDSSLDDLPEDTVFYVGGVPSNFKLPTSLNLPGFVGCLELATLNNDVISLYN  
FKHIYNMPPSTSVPCARDKLAFTQSRASYPFDGSGYAVVRDITRRGKFGQVTRFDIEVR  
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IIYHNDKKMILVDRRHVKSMDNEKMKIPFTDIYIGGAPPEILQSRLRAHLPLDINFRG  
CMKGFQFQKKDFNLLEQTETLGVGYGCPEDSLISRRAYFNGQSFIASIQKISFFDGFEGG  
FNFRTLQPNGLLFYYASGSDVFSISLDNGTVIMDVKGIKVQSVDKQYNDGLSHFVISSVS  
PTRYELIVDKSRVGSKNPTKGKIEQTQASEKKFYFGGSPISAQYANFTGCISNAYFTRVD  
RDVEVEFQRYTEKVHTSLYECPIESSPLFLLHKKGKNLSKPKASQNKKGKSKDAPSWD  
PVALKLPERNTPRNSHCHLSNSPRAIEHAYQYGGTANSRQEFELKGDGAKSQFSIRLR  
TRSSHGMIFYVSDQEENDFMTLFLAHGRLVYMFNVGHKKLIRSQEKYNDGLWHDVIFIR  
ERSSGRLVIDGLRVLEESLPTEATWKIKGPIYLGAVPGKAVKNVQINSIYSFGCLSN  
LQLNGASITSASQTFSTPCFEGPMETGTYFSTEGGYVVLDESFNIGLKFEIAFEVRPRS  
SSGTLVHGHSVNGEYLVNHMKNGQVIVKVNNGIRDFSTSVTPKQSLCDGRWHRTVIRDS  
NVVQLDVDSEVNHVVGPLNPKPIDHREPVFVGGVPESLLTPRLAPSKPFTGCIRHFVIDG  
HPVSFSKAALVSGAVSINSCPAA

>sp|P07942|LAMB1\_HUMAN Laminin subunit beta-1 OS=Homo sapiens GN=LAMB1 PE=1 SV=2

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PEPYCIVSHLQEDKKCFICNSQDPYHETLNPDSHLIENVVTTFAPNRLKIWWQSENGVEN  
VTIQLDLEAEFHFTHLIMTFKTRPAAMLIERSDFGKTWGVYRYFAYDCEASFPGISTG  
PMKKVDDIICDSRYSDIEPSTEGEVIFRALDPAFKIEDPYPRIQNLKITNLRIKFVKL  
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RHNTKGLNCELCMDFYHDLPRPAEGRNSNACKKCNCNEHSISCHFDMAYLATGNVSGG  
VCDDCQHNTMGRNCEQCKPFYYQHPERDIRDPNFCERCTCDPAGSQNEGICDSYTDFTG  
LIAGQCRCKLNVEGEHCDVCKEGFYDLSSDPFGCKSCACNPLGTIPGGNPCDSETGHY  
CKRLVTGQHCDQCLPEHWGLSNDLDGCRPCDCDLGGALNNSCFAESGQCSCRPHMIGRQC  
NEVEPGYYFATLDHYLYEAEANLGPVGSIVERQYIQDRIPSWTGAGFVRVPEGAYLEFF

IDNIPYSMEYDILIRYEPQLPDHWEKAVITVQRPGRIPTSSRCGNTIPDDDNQVVSLSPG  
SRYVVLPRPVCFEKGTNYTVRLELPQYTSSSDSDVESPYTLIDSLVLMPYCKSLDIFTVGG  
SGDGVVTNSAWETFQRYRCLENSRSVVKTPMTDVCRNIIIFSISALLHQTGLACECDPQGS  
LSSVCDPNGGQCQCRPNVVGRTCNRCAPGTFGFGPSGCKPCECHLQGSVNAFCNPVTGQC  
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CDPCNCNAAHSFGPSCNEFTGQCQCMPPGFGGRTCSECQELFWGDPDVECRACDCDPRGIE  
TPQCDQSTGQCVCVEGVEGPRCDKCTRGYSGVFPDCTPCHQCFALWDVITIAELTNRTHRF  
LEKAKALKISGVIGPYRETVDSEVERKVSEIKDILAQSPAAEPLKNIGNLFEEAEKLIKDV  
TEMAQVEVKLSDDTSQSNSTAKELDSLQTEAESLDNTVKELAEQLEFIKNSDIRGALDS  
ITKYFQMSLEAEERNASTTEPNSTVEQSALMRDRVEDVMMERESQFKEKQEEQARLLDE  
LAGKLQSLDLSAAAEEMTCGTPPGASCSETECGPNCRTDEGERKCGGPGCGGLVTVAHNA  
WQKAMDLDDQVLSALAEVEQLSKMVSEAKLRADKQSAEDILLKTNATKEKMDKSNEEL  
RNLIKQIRNFLTQDSADLDSIEAVANEVLKMEMPSTPQQQLQNLTEDIRERVESLSQVEVI  
LQHSAAADIARAEMLLEEAKRASKSATDVKVTADMVKEALEEAEKAQVAAEKAIAKQADEDI  
QGTQNLTSIESETAASEETLFNASQRISSELERNVEELKRKAQNSGEAEYIEKVVTYVK  
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>sp|Q71RC2|LARP4\_HUMAN La-related protein 4 OS=Homo sapiens GN=LARP4 PE=1 SV=3

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ECLKKQLEFCFSRENLSKDLYLISQMDSDQFIPIWTVANMEEIKKLTDPDLILEVLRSS  
PMVQVDEKGEKVRPSHKRCIVILREIPETPIEEVKGLFKSENCPKVISCEFAHNSNWI  
TFQSDTDAQQAFKYLREEVKTFQGKPIMARIKAINFFAKNGYRLMDSSYSHPIQTAAQ  
YASPVFMQPVYNPHQQYSVYSIVPQSWSPNPTPYFETPLAPFPNGSFVNGFNPSGSYKTN  
AAAMNMGRPFQKNRVKPKFRSSGGSEHSTEGSVSLGDGQLNRYSSRNFPAPERHNPTVTGH  
QEQTYLQKETSTLQVEQNGDYGRGRRTLFRGRRRRREDDRISRPHPSTAESKAPTPKFDLL  
ASNFPPLPGSSSRMPGELVLENRMSDVVKGVYKEKDNEELTISCPVPADEQTECTSAQQ  
NMSTSSPCAAELTALSTTQKEKDIEDSSVQKDGLNQTTIPVSPPSTTKPSRASTASPCN  
NNINAATAVALQEPRKLSYAEVCQKPPKEPSSVLVQPLRELRSNVVSPTKNEDNGAPENS  
VEKPHEKPEARASKDYSGFRGNIIPRGAAGKIREQRRQFSHRAIPQGVTRRNGKEQYVPP  
RSPK

>sp|Q8N370|LAT4\_HUMAN Large neutral amino acids transporter small subunit 4 OS=Homo sapiens GN=SLC43A2 PE=1 SV=1

MAPTLATAHRRRWWMACTAVLENLLFSVLLGWGSLLIMLKSEGFYSYLCTEPENVNTNGT  
VGGTAEPGHEEVSWMNGWLSQAQDEMLNLAFTVGSFLLSAITLPLGIVMDKYGPRKLRL  
LGSACFAVSCLLIAYGASKPNALSVLIFIALALNGFGGCMFTFTSLTLPNMFGDLRSTFI  
ALMIGSYASSAVTFPGIKLIYDAGVSFIVVLVWAGCSGLVFLNCFNWPLEFPFGPEDM  
DYSVKIKFSWLGFDPHKITGKQFYKQVTTVGRRLSVGSSMRSAKEQVALQEGHKLCLSTVD  
LEVKCCQPDAAVAPSMHSVFSPIILLSLVTMCVTQLRLIFYMGAMNNILKFLVSGDQKTV  
GLYTSIFGVLQLLCLLTAPVIGYIMDWRLKECEDASEEPEEKDANQGEKKKKRDRQIQK  
ITNAMRAFAFTNLLLVGFGVTCLIPNLPLQILSFILHTIVRGFIHSAVGGLYAAVYPSTQ

FGSLTGLQSLISALFALLQQPLFLAMMGPLQGDPLWVNVGLLLLSLLGFCLPLYLICYRR  
QLERQLQQRQEDDKLFLKINGSSNQEAFV

>sp|Q9NRM7|LATS2\_HUMAN Serine/threonine-protein kinase LATS2 OS=Homo sapiens GN=LATS2  
PE=1 SV=2

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QQQMRATPKFGPYQKALREIRYSLLPFANESGTSAAAENVNRQMLQELVNAGCDQEMAGRA  
LKQTGSRSEIAALEYISKMGYLDPRNEQIVRVIKQTSPGKGLMPTVTRRPSFEGTGDSF  
ASYHQLSGTPYEGPSFGADGPTALEEMPRPYVDYLFPGVGPHGPHQHHPKGYGASVE  
AAGAHFPLQGAHYGRPHLLVPGEPLGYGVQRSPSFQSKTPPETGGYASLPTKGQGGPPGA  
GLAFPPPAAGLYVPHPHHKQAGPAAHQLHVLGSRSQVFASDSPPQSLLTPSRNSLNDLY  
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KAEPSLPAPNTVTAVTAAHILHPVKSVRVLRPEPQTAVGPSHPAWVPAPAPAPAPAPAPA  
AEGDAKEEHALALGGAGAFPLDVEYGGPDRRCPPPPYPKHLRLSKSEQYDLSLCAGM  
EQSLRAGPNEPEGDKSRKSAKGDKGKDKKQIQTSPPVVRKNSRDEEKRESRIKSYSPY  
AFKFFMEQHVENVIKTYQQKVNRRLLQLEQEMAKAGLCEAEQEQMRKILYQKESNYNRLKR  
AKMDKSMFVKIKTLGIGAFGEVCLACKVDTHALYAMKTLRKKDVLNRNQVAHVKAERDIL  
AEADNEWVVKLYSYFQDKDSLIFVMDYIPGGDMMSLLIRMEVFPEHLARFYIAELTLAIE  
SVHKMGFIHRDIKPDNILLDLGHIKLTDFGLCTGFRWTHNSKYQKGSVHRQDSMEPSD  
LWDDVSNCRCGDRLKTLEQRARKQHQRCLAHSLVGTPNYIAPEVLLRKGYTQLCDWWSVG  
VILFEMLVGQPPFLAPTPTETQLKVINWENTLHIPAQVKSPEARDLITKLCCSADHRLG  
RNGADDLKAHPFFSAIDFSSDIRKQAPYVPTISHPMDTSNFDPVDEESPWNDASEGSTK  
AWDTLTSPNNKHPEAHFYEFTRRRFFDDNGYPFRCPKPSGAEASQAESSDLESSDLVDQT  
EGCQPVYV

>sp|Q6XYB7|LBX2\_HUMAN Transcription factor LBX2 OS=Homo sapiens GN=LBX2 PE=2 SV=1

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ARALQPSEGRAGPDALGPGPFGRKRRKSRTAFTAQQVLELERRFVFQKYLAPSERDGLAT  
RLGLANAQVVTWFQNRRAKLKRDVEEMRADVASLRALSPEVLCSLALPEGAPDPGLCLGP  
AGPDSRPHLSDEEIQVDD

>sp|Q86VQ0|LCA5\_HUMAN Lebercilin OS=Homo sapiens GN=LCA5 PE=1 SV=2

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HHQAPRKPSPKGLPNRKGVVRGFRSQSLNREPLRKDTDLVTKRILSARLLKINELQNEVS  
ELQVKLAELLKENKSLKRLQYRQEKALNKFEDAENEISQLIFRHNNEITALKERLRKSQE  
KERATEKRVKDTESSELFRTKFSLQKLKEISEARHLPERDDLAKKLVSaelKLDDTERRIK  
ELSKNLELSTNSFQRQLLAERKRAYEAHDENKVLQKEVQRLYHKLKEKERELDIKNIYSN  
RLPKSSPNKEKELALRKNAACQSDFADLCTKGVQTMEDFKPEEYPLTPETIMCYENKWE  
PGHLTLDLQSQKQDRHGEAGILNPIMEREKFKVTDEELHVVKQEVKLEDEWEREELDKK  
QKEKASLLEREKPEWETGRYQLGMYPIQNMDKLQEEEEERLKREMLLAKLNEIDRELQD  
SRNLKYPVLPPLPDFESKLHSPERSPKTYRFSESSERLFNGHHLQDISFSTPKGEGQNSG  
NVRSPASPNEFAFGSYVPSFAKTSESNPFSQKSSFLDFQRNSMEKLSKDGVDLITRKEK  
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>sp|Q5T752|LCE1D\_HUMAN Late cornified envelope protein 1D OS=Homo sapiens GN=LCE1D PE=1  
SV=1

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GGCCSSGGGGCCLSHHRRHRSHRRRPQSSDCCSQPSGGSSCCGGGSSQHSGGCC

>sp|Q5T5B0|LCE3E\_HUMAN Late cornified envelope protein 3E OS=Homo sapiens GN=LCE3E PE=1 SV=1

MSCQQNQKQCQPPPKCPSPKCPPKNPVQCLPPASSGCAPSSGGCGPSSEGGCFLNHHRRH  
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>sp|A4D1U4|LCHN\_HUMAN Protein LCHN OS=Homo sapiens GN=LCHN PE=1 SV=1

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LLQPGRLELGDVEEDQVVAVFVTFDPRSGNMVEWCLPDIDLEGVEFKSMASGSHKIQS  
DFIYFRKGPFFGLACFANMPVESELERGARMKSVGILSPSYTLLYRYMHFLENQVRHGLE  
MPGHYSHLAAFYEDKKGVLAGPGRGSSLPPVYWLPSIHRYMYPEMKITHPAGCMSQFIK  
FFGEQILILWKFALLRKRLIFSPPPVGVVCYRVYCCCCLANVSLPGIGGTIPESKPFFY  
VNVADIESLEVEVSIVACTTEKIFEEKRELYDVYVDNQNVKTHHDHLQPLLKINSADREK  
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>sp|O95214|LERL1\_HUMAN Leptin receptor overlapping transcript-like 1 OS=Homo sapiens  
GN=LEPROTL1 PE=1 SV=2

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AMSACKELAIFLTGTIVVSAFGLPIVFARAHLEWGACALVLTGNTVIFATILGFFLVF  
GSNDDFSWQQW

>sp|Q6ZUX7|LHPL2\_HUMAN Lipoma HMGIC fusion partner-like 2 protein OS=Homo sapiens  
GN=LHFPL2 PE=2 SV=2

MCHVIVTCRSMWLTLISIVVAFELIAFMSADWLIGKARSRGVEPAGPGGGSPEPYHPT  
LGIYARCIRNPGVQHFQRDTLCGPYAESFGEIASGFQWQATAIFLAVGIFILCMVALVSFV  
TMCVQSIMKKSIFNVCGLLQGIAGLFLILGLILYPAGWGCQKAIDYCGHYASAYKPGDCS  
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>sp|Q7Z7J7|LHPL4\_HUMAN Lipoma HMGIC fusion partner-like 4 protein OS=Homo sapiens  
GN=LHFPL4 PE=2 SV=1

MLPSQEASKLYHEHYMRNSRAIGVLWAIFTICFAIINVVFIQPYWVGDSVSTPKPGYFG  
LFHYCVGSLAGRELTCRGSFTDFSTIPSSAFKAAFFVLLSMVLILGCITCFSLFFFCN  
TATVYKICAWMQLAALCLVLGCMIFPDGWAETIRDMCGAKTGKYSLGDCSVRWAYILA  
IIGILNALILSFLAFVLGNRQTDLLQEELKPENKDFVGSTVSSVLRPGGDVSGWGVLP  
VAHSQGP

>sp|Q9UBR4|LHX3\_HUMAN LIM/homeobox protein Lhx3 OS=Homo sapiens GN=LHX3 PE=1 SV=2

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CHTPLAERCFSRGSVYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVV  
CKRQLATGDEFYLMEDSRLVCKADYETAKQREAEATAKRPTTITAKQLETLSAYNTSP  
KPARHVREQLSSETGLDMRVVQVWFQNRRAKEKRLKKDAGRQRWGQYFRNMKRSRGGSKS  
DKDSVQEGQSDAEVSFPDEPSLAEMGPANGLYGSLGEPTQALGRPSGALGNFSLEHGGL  
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>sp|Q9H2C1|LHX5\_HUMAN LIM/homeobox protein Lhx5 OS=Homo sapiens GN=LHX5 PE=2 SV=1

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SSSSLKEGSLNSVSSCTDRSLSPDLQDALQDDPKETDNSTSSDKETANNENEEQNSGTR

RGPRTTIKAKQLETLKAAFAATPKPTRHIREQLAQETGLNMRVIQVWFQNRRSKERRMKQ  
LSALGARRHAFFRSPRRMRPLGGRLDESEMLGSTPYTTYGYDYGDDYAPGSNYDFFAHGP  
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>sp|P43034|LIS1\_HUMAN Platelet-activating factor acetylhydrolase IB subunit alpha OS=Homo sapiens GN=PAFAH1B1 PE=1 SV=2

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LQKKVMELESKLNEAKEEFTSGGPLGQKRDPEWIPRPPEKYALSGHRSPVTRVIFHPVF  
SVMVSASEDATIKVWDYETGDFERTLKGHTDSVQDISFDHSGKLLASCSADMTIKLWDFQ  
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RPNQDGTLIASCSNDQTVRVVWVATKECKAELREHEHVVECISWAPESSYSSISEATGSE  
TKKSGKPGPFLLSGSRDKTIKMWDVSTGMCLMTLVGHDNWVRGVLFHSGGKFILSCADDK  
TLRVWDYKNKRCMKTLNAHEHFVTSLDFHKTAPEYVVTGSVDQTVKVWECE

>sp|Q99732|LITAF\_HUMAN Lipopolysaccharide-induced tumor necrosis factor-alpha factor OS=Homo sapiens GN=LITAF PE=1 SV=2

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YYTQPAPIPNNPITVQTVYVQHPITFLDRPIQMCCPSCNKMIVSQLSYNAGALTWLSCG  
SLCLLGCTIAGCCFIPFCVDALQVDHYCPNCRALLGTYKRL

>sp|Q8NI32|LPD6B\_HUMAN Ly6/PLAUR domain-containing protein 6B OS=Homo sapiens GN=LYPD6B PE=2 SV=1

MLYKSSDRPAHKVSMLLLCHALAIIVVQIVFSESWAFKNNFYNVRPPLDPTFPNSF  
KCFTCENAGDNYNCNRWAEDKWCQNTQYCLTVHHFTSHGRSTSITKKCASRSECHFVGC  
HHSRDESEHTECRSCCEGMICNVELPTNHTNAVFVAVMHAQRTSGSSAPTLYLPVLAWVFVL  
PLL

>sp|Q14693|LPIN1\_HUMAN Phosphatidate phosphatase LPIN1 OS=Homo sapiens GN=LPIN1 PE=1 SV=2

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REKVVDIEINGESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGASRMCEQL  
KRGSVDRMRGLDPSTPAQVIAPSETPSSSVVKRRKRRRKSQDLSLKRDDNMNTSEDED  
MFPIEMSSDEAMELLESSRTLNDIPPFQDDIPEENLSLAVIYPQSASYPNSDREWSPTP  
SPSGSRPSTPKSDELVSSTERTGQKNPEMLWLWGELPQAAKSSSPHKMKESSPLSSRK  
ICDKSHFQAIHSESDTFSQDQSPTLVGGALLDQNKPTQEMQFVNEEDLETGAAAPLLPM  
IEELKPPSASVVQTANKTDSRKRKDRSRHLGADGVYLDLTDMDPEVAALYFPKNGDP  
SGLAKHASDNGARSANQSPQSVGSSGVDGVESTSDGLRDLPSIAISLCGGLSDHREITK  
DAFLEQAVSYQQFVDNPAIIDDPNLVVKIGSKYYNWTAAPLLAMQAFQKPLPKATVES  
IMRDKMPKKGRRWFSWRGRNTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHES  
SDEERAAAAPSNAGHLPLLPNVSYYKTLRLTSEQLKSLKLNKPNVDFSVTTQYQGT  
CEGTIYLWNWDDKVIISDIDGTITRSDTLGHILPTLGKDWTHQGIKLYHKVSQNGYKFL  
YCSARAIGMADMTGYLHWVNERGTVLPQGPLLSPSSLSALHREVIEKKPEKFKVQCL  
TDIKNLFFPNTPEFYAAFGNRPADVSYKQGVSLNRIFTVNPKGELVQEHAKTNISSYV  
RLCEVDVHVFLLKRSHSSDFPCSDTFSNFTFWREPLPPFENQDIHSASA

>sp|A6NIK2|LR10B\_HUMAN Leucine-rich repeat-containing protein 10B OS=Homo sapiens GN=LRRC10B PE=4 SV=2

MGIAESTPDELPSDAEEQLRSGDQQLSGRRLRRLPSAVCALSRKLYVSGTGLREL  
PEEIEELRELRLALDFNKLRLPDGLCRLPRLTRYLGGNRLALPADFAQLQLSLRCLWI

EGNFLRRFPRPLLRLVALQSLQMGDNRLRALPAELPRMTGLRGLWLYGNRFEEFPPALLR  
MGRHLILDLDNRNLGGFPDLHPLRALRVFSYDHNPTGPPRVADTVFLVGEGAVERMAER  
DEPTPRPPRRPARAFEDEEEEDLLIGGAGSRALGAPGGSFRALEAAPGLGT

>sp|Q9P2M1|LR2BP\_HUMAN LRP2-binding protein OS=Homo sapiens GN=LRP2BP PE=1 SV=2

MKLTSEKLPKNPFYASVSQYAAKNQKFFQWKKEKTDYTHANLVDKALQLKERILKGDTL  
AYFLRGQLYFEEGWYEEALEQFEEIKEKDHQATYQLGVMYDGLGTTLDAEKGVDYMKKI  
LDSPCPKARHLKFAAAYNLGRAYEYEGKGVKRSNEEAERLWLIADNGNPKASVKAQSMLG  
LYYSTKEPKELEKAFYWHSEACGNLNLSSQALGLMYLYGGGIRQDTEAALQCLREAAER  
GNVYAAQGNLVEYYYKMKFFTKCVAFSKRIADYDEVHDIPMIAQVTDCLPEFIGRGMAMAS  
FYHARCLQLGLGITRDETTAKHYYSKACRLNPALADELHSLIRQRI

>sp|Q96QE4|LR37B\_HUMAN Leucine-rich repeat-containing protein 37B OS=Homo sapiens  
GN=LRR37B PE=2 SV=3

MSWLRFWGPWPLLTWQLLSLLVKEAQPLVWVKDPLQLTSNPLGPPEPWSSRSSHLPWESP  
HAPAPPAAPGDFDYLGPSASSQMSALPQEPTENLAPFLKELDSAGELPLGPEPFLAAHQD  
LNDKRTPEERLPEVVPLLNRDQNALVQLPRLKWVQTTDLDRAGHQADEILVPLDSKVS  
RPTKFVVS PKNLKKDLAERWSLPEIVGIPHQLSKPQRQKQTL PDDYLSMDTLYPGSLPPE  
LRVNADEPPGPPEQVGLSQFHLEPKSQNPETLEDIQSSSLQEEAPAQLQLPQEVEPESTQ  
QEAPALPPESSMESLAQTPLNHEVTVQPPGEDQAHYNLPKFTVKPADVEVTMTSEPKNET  
ESTQAQQEAPIQPPEEAEPSSALRTTDPPEHPEVTLPPSDKGQAQHSHTLATVQPLD  
LELSITTEPTTEVKPSPTTEETSAQPPDPGLAITPEPTTEIGHSTALEKTRAPHDPVQQT  
LHRSLTEVTGPPTKLESSQDSLVSQETAPEEQKASTSTNICELCTCGDETLSCVGLSPKQ  
RLRQVPVPEPDTYNGIFTTLNFQGNYSYLDGNVWKAYSWTEKLILSENYLTELKDSFE  
GLLYLQYLDLSCNKIRYIERQTFESLPFLQYINLGCNLITKLSLGTQAWHGMQFLHNL I  
LNRNPLTTVEDPYLFELPALKYLDMGTTHTITLTKNILTMTVELEKLILPSHMACCLCQ  
FKNSIEAVCKTVKLHCNTACLNSIHCPEEASVGNPEGAFMKMLQARKQHMSTQLTIESE  
APSDSSGINLSGFGGDQLEIQLTEQLRSLIPNEDVRKFMHSVIRTLKMECSETHVQGSCA  
KLMLRTGLLMKLLSEQQEAKALNVEWDTDQKKTNYINENMEQNEQKEQKSSELMKEVPGD  
DYKNKLIFAISVTVILIIILIIIFCLIEVNSHKRASEKYKDNPSISGA

>sp|Q2VPJ9|LR75B\_HUMAN Leucine-rich repeat-containing protein 75B OS=Homo sapiens  
GN=LRR75B PE=2 SV=1

MGARLGRRAGPEAGSEAGAAAGCGPAPYERRVRWLREIQSTLRERRPERARQLRLRLRQD  
LGLERTLLPDILYRDVAFNLNPVDPI SHDLLVNLRDLQCPKDYELWKSSDKICRQLIYH  
LTPHSKQQQGSSLRQKTSCLKSSLQKTLLAGETVDLSGIPLSTQDVQHITRYLSSHGA  
VLAVLDLSFTGLSDELLHLLPSLWALPRLTQLLLNGNRLTRATARKLTDIAKDTTKFPA  
LAWVDLGNNVDVASLPQLLVGLRRRLSQRSLPTIYEGLDLEPEGSAAGATTPASTWDS  
TAAGLGPEPQACCAR

>sp|Q5T700|LRAD1\_HUMAN Low-density lipoprotein receptor class A domain-containing protein  
1 OS=Homo sapiens GN=LDLRAD1 PE=1 SV=1

MNKVFPQGNGYTAESKAHPGGEAGGGHLCCSRRGACLSASLLLLLATVAALIALVTIL  
GLPCTPGAQACITLTNRTGFLCHDQRSCIPASGVCDGVRTCTHGEDEDES LCRDVPQSL  
PHFLVAHCGDPASWIYSDQKCDGTNNCGDCSDELSPVTVCPGPGWWRCPSTFFKYCDC  
IPRHLCDRHVQHCDWSDEYACPGP

>sp|O15165|LRAD4\_HUMAN Low-density lipoprotein receptor class A domain-containing protein  
4 OS=Homo sapiens GN=LDLRAD4 PE=1 SV=1



MPEAGFQATNAFTECKFTCTSGKCLYLGSVCNQNDCGDNSDEENCLLVTEHPPPGIFN  
SELEFAQIIIIIVVVVTVMVVIVCLLNHYKVSTRSFINRPNQSRREDGLPQEGCLWPSD  
SAAPRLGASEIMHAPRSRDRFTAPSFIQRDRFSRFQPTYVYQHEIDLPTTISLSDGEEP  
PPYQGPTLQLRDPQQMELNRESVRAPPNRTIFDSDLIDIAMYSGGPCPPSSNSGISAS  
TCSSNGRMEGPPPTYSEVMGHHPGASFLHHQRSNAHRGSRLQFQQNNAESTIVPIKGKDR  
KPGNLV

>sp|P50851|LRBA\_HUMAN Lipopolysaccharide-responsive and beige-like anchor protein OS=Homo  
sapiens GN=LRBA PE=1 SV=4

MASEDNRVSPPPPTGDDGGGGGREETPTGGALSLKPGLPIRGIRMKFAVL TGLVEVGEV  
SNRDIVETVFNLLVGGQFDLEMNFI IQEGESINCMVDLLEKCDITCQAEVWSMFTAILKK  
SIRNLQVCTEVLVEKVLGKIEKVDNMIADLLVDM LGVLASYNLTVRELKLFSSKLQGDK  
GRWPPHAGKLLSVLKHPQKYGPDAFFNFP GKSA AAIALPPIAKWPYQNGFTFHTWLRMD  
PVNNINVDKDKPYLYCFRTSKGLGYSAHFVGGCLIVTSIKSKGKGFQHCVKFDFKPQKWY  
MVTIVHIYNRWKNSELRCYVNGELASYGEITWVNTSDTFDKCFLGSSETADANRVFCGQ  
MTAVYLFSEALNAAQIFAIYQLGLGYKGTFKFAESDLFLAEHHKLLLYDGKLSSAIAFT  
YNPRATDAQLCLESSPKDNPSIFVHSPHALMLQDVKA VLTHSIQSAMHSIGGVQVLFPLF  
AQLDYRQYLSDEIDL TICSTLLAFIMELLKNSIAMQEQLACKGFLVIGYSLEKSSKSHV  
SRVLELCLAFSKYLSNLQNGMPLLKQLCDHVLNPAIWIHTPAKVQLMLYTYLSTEFIG  
TVNIYNTIRRVGTVLLIMHTLKYYYWAVNPQDRSGITPKGLDGPRPNQKEMLSLRAFLLM  
FIKQLVMKDSGVKEDELQAILNYLLTMHEDDNLMDVLQLLVALMSEHPNSMIPAFDQRNG  
LRVIYKLLASKSEGIRVQALKAMGYFLKHLAPKRKA EVM LGHGLFSLLAERLMLQTNLIT  
MTTYNVLF EILIEIGTQVIHKQHPDPDSSVKIQNPQILKVIATLLRNSPQCPESEVRR  
AFLSDMIKLFNNSRENRRSLLQCSVWQEWMLSLCYFNPKNSDEQKITEMVYAI FRILLYH  
AVKYEWWGWRVWVDLSITHSKVTFEIHKENLANIFREQQGVDEEIGLCSSTSVQAASG  
IRRDINVS VGSQQPDTKDSPVCPHFTTNGNENSSI EKTSSLESASNIELQTTNTSYEEMK  
AEQENQELPDEGTLEETLTNETRNADDLEVSSDIEAVA ISSNSFITTGKDSMTVSEVTA  
SISSPSEEDASEMPEFLDKSIVEEEEEDDYVELKVEGSPTEEANLPTELQDNSLSPAASE  
AGEKLD MFGNDDKLI FQEGKPVTEKQTD TETQDSKDSGIQMTASGSSAMSPETTVSQIA  
VESDLGQM LEEGKATNL TRETKLINDCHGSVSEASSEQKIAKLDVSNVATDTERLELKA  
SPNVEAPQPHRHVLEISRQHEQPGQGIAPDAVNGQRRDSRSTVFRIPFNWSQMHQRLLT  
DLLFSIETDIQMWRSHSTKTVMD FVNSSDNVIFVHNTIHLISQVMDNMVMACGGILPLLS  
AATSATHELENIEPTQGLSIEASVTFLQRLISLVDVLI FASSLGFTIEAEKSMSSGGIL  
RQCLRLVCAVAVRNCLECCQHSQ LKTRGDKALKPMHSLIPLGKSAKSPVDIVTGGISPV  
RDLDRLLQDMDINRLRAVVFRDIEDSKQAQFLALAVVYFISVLMVSKYRDILEPQNERHS  
QSCTETGSENE NVSLSEITPAAFSTLT TASVEEESTSSARRRDSGIGEETATGLGSHVE  
VTPHTAPPGVSAGPDAISEVLSTLSLEVNKSPETKNDRGNDLDTKATPSVSVSKNVNVD  
ILRSLVNIPADGVTVDPALLPACL GALGDL SVEQPVQFRSFDRSVIVA AKKSAVSPSTF  
NTSIPTNAVSVVSSVDSAQASDMGGESPGSRSSNAKLPSVPTVDSVSDPVSNM SITERL  
EHALEKAAPLLREIFVDFAPFLSRTL LGSHGQELLIEGTSLVCMKSSSVVELVMLLCSQ  
EWQNSIQKNAGLAFIELVNEGRLLSQT MKDHLVRVANEAEFILSRQRAEDIHRHA EFESL  
CAQYSADKREDEK MCDHLIRAAKYRDHVTATQLIQKIINILTDKHGAWGNSAVSRPLEFW  
RLDYWEDDLRRRRRFRV RNPLGSTHPEATLKTAVEHVCIFKLRENSKATDEDILAKGKQSI  
RSQALGNQNSENEILLEGDDDTLSSVDEKDLENLAGPVSLSSTPAQLVAPSVVVKGTLSVT  
SSELYFEVDEEDPNFKKIDPKILAYTEGLHGKWL FTEIRSF SRRYLLQNTALEIFMANR

VAVMFNFPDPATVKKVNYLPRVGVGTSFGLPQTRRISLASPRQLFKASNMTQRWQHREI  
SNFEYLMFLNTIAGRSYNDLNQYPVPWVITNYESEELDTLPTNFRDLSKPIGALNPKR  
AAFFAERYESWEDDQVPKFHYGTHYSTASFVLAWLLRIEFTTYFLNLQGGKFDHADRTF  
SSISRWRNSQRDTSIDKELIPEFYLLPEMFVNFNNYNLGVMDGTVVSDVELPPWAKTS  
EEFVHINRLALESEFVSCQLHQWIDLIFGYKQQGPEAVRALNVFYLLTYEGAVNLNSITD  
PVLREAVEAQIRSFQTPSQLLIEPHPPRGSAQVSPLMFTDKAQQDVIMVLKFPSNSPV  
THVAANTQPGLATPAVITVTANRLFVAVNKWHNLPAHQGAVQDQPYQLPVEIDPLIASNTG  
MHRRQITDLLDQSIQVHSQCFVITSDNRYILVCGFWDKSFRVYSTDTGRLIQVVFHWDV  
VTCLARSESYIGGCYILSGSRDATLLLWYWGKCSGIGDNPGSETAAPRAILTGHDYEV  
TCAAVCAELGLVLSGSQEGPCLIHSMNGDLLRTLEGPENCLKPKLIQASREGHCVIFYEN  
GLFCTFSVNGKLQATMETDDNIRAIQLSRDGQYLLTGGDRGVVVVRQVSDLKQLFAYPGC  
DAGIRAMALSYDQRCIISGMASGSIVLFYNDFNRWHHEYQTRY

>sp|Q5BKY1|LRC10\_HUMAN Leucine-rich repeat-containing protein 10 OS=Homo sapiens  
GN=LRR10 PE=2 SV=1

MGNTIRALVAFIPADRCQNYVVRDLREMPDKMVDLSGSQLRFPPLHVCSEFRELKLYLS  
DNHLNSLPPELGQLQNLQILALDFNNFKALPQVVCTLKQLCILYLGNNKCLDLPSELSLL  
QNLRTLWIEANCLTQLPDVVCESLLKTLHAGSNALRLPGQLRRLQELRTIWLGNRLT  
DFPTVLLHMPFLEVIDVDWNSIRYFPSLAHLSSLKLVYDHNPCRNAPKVAKGVRVRGRW  
AEETPEPDPRKARRYALVREESQELQAPVPLLPPTNS

>sp|Q9H756|LRC19\_HUMAN Leucine-rich repeat-containing protein 19 OS=Homo sapiens  
GN=LRR19 PE=2 SV=1

MKVTGITILFWPLSMILLSDKIQSSKREVQCNFTEKNYTLIPADIKKDVITLDLSYNQIT  
LNGTDRVLQTYFLLTELYLIENKVTILHNNFGNLSSEILNICRNSIYVIQQGAFLGL  
NKLKQLYLQCNKIEQLNADVFPVPLRSLKLLNLQGNLISYLDVPPLFHLELITLYGNLWNC  
SCSLFNLQNLWNTSNVTLENENITMCSYPNSLQSYNIKTVPKAECHSKFPSSVTEDLYI  
HFQPISNSIFNSSNNLTRNSEHEPLGKSWAFLVGVVTVLTTSLLIFIAIKCPIWYNIL  
LSYNHHRLEEHEAETIEDGFTGNPSSLSQIPETNSEETTVIFEQLHSFVDDDDGFIEDKY  
IDIHELCEEN

>sp|Q86X40|LRC28\_HUMAN Leucine-rich repeat-containing protein 28 OS=Homo sapiens  
GN=LRR28 PE=2 SV=1

MASELCKTISVARLEKHKNLFLNYRNLHHFPLELLKDEGLQYLERLYMKRNSLTSLPENL  
AQKLPNLVELYLHSNNIVVPEAIGSLVKLQCLDLSDNALEIVCPEIGRLRALRHLRLAN  
NQLQLPPEVGDLKELQTLDISTNRLLTLPERLHMCLSLQYLTVDNRNLWYVPRHLCQLP  
SLNELSMAGNRLAFLPLDLGRSRELQYVYVDNNIHLKGLPSYLYNKVIGCSGCGAPIQVS  
EVKLLSFSSGQRTVFLPAEVKAIGTEHDHVLPLQELAMRGLYHTYHSLKDLNLFSPISL  
PRSLLELLHCPGLGHCHRCSEPMFTIVYPKLFPLRETPMAGLHQWKTTSFVAYCCSTQCL  
QTFDLS

>sp|A6NM36|LRC30\_HUMAN Leucine-rich repeat-containing protein 30 OS=Homo sapiens  
GN=LRR30 PE=4 SV=1

MGARQSRASSKDKGPKRMLFTGRRQKFSPWDDALLSGRDPRLKRGMHVFSFLVTRGM  
TDIPDFLWGLSEVQKLNLSHNQLRVLPPEVGKLTTRIVVLNLGNNRLKSLPREVSLLQCLK  
VLFVNMNCLTEVPAELSLCRKLEVLSLSHNCLSQLPACFADLSRLRKLNSNNFFAHIPM  
CVFSLKELIFLHVGSNRLENIAESIQLHLASLQIFIAEGNNIHSFPRSLCLVTSLELLNLN  
NNDIQTLPSELHLLCRLVRIAWNPMDKGLHISHNPLSKPLPELVEGGLEMLFGYLDKDKH

T

>sp|Q5VT99|LRC38\_HUMAN Leucine-rich repeat-containing protein 38 OS=Homo sapiens  
GN=LRR38 PE=1 SV=1

MRPRAPACAAAALGLCSLLLLAPGHACPAGCACTDPHTVDCRDRGLSPVDPDFPLDVRK  
LLVAGNRIQRIPEDFFIFYGDLVYLDLFRNNSLRSLLEEGTFSGSAKLVFLDLSYNNLTQLG  
AGAFRSAGRLVKLSLANNLVGVHEDAFETLESLQVLELNDNNLRSLVAALAALPALRS  
LRLDGNPWLCDCDFAHLFSWIQENASKLPKGLDEIQCSLPMESRRISLRELSEASFSECR  
FSLSLTDLCTIIIFSGVAVSIAAISSFFLATVVQCLQRCAPNKDAEDEDEDKDD

>sp|Q96PB8|LRC3B\_HUMAN Leucine-rich repeat-containing protein 3B OS=Homo sapiens  
GN=LRR3B PE=1 SV=1

MNLVDLWLTRSLMCLLLQSFVLMILCFHSASMCPKGCLCSSSGGLNVTCSSANLKEIPR  
DLPPETVLLYLDNSQITSIPNEIFKDLHQLRVLNLSKNGIEFIDEHAFKGVAETLQTLDL  
SDNRIQSVHKNAFNNLKARARIANNPWCDCTLQQVLRSMASNHETAHNVICKTSVLDEH  
AGRPFLNAANDADLCNLPKKTTDYAMLVTMFGWFTMVISYVYVYVRQNQEDARRHLEYLK  
SLPSRQKKADEPDDISTVV

>sp|Q9H9A6|LRC40\_HUMAN Leucine-rich repeat-containing protein 40 OS=Homo sapiens  
GN=LRR40 PE=1 SV=1

MSRLKRIAGQDLRAGFKAGGRDCGTSVPQGLLKAARKSGQLNLSGRNLSEVPQCVWRINV  
DIPEEANQNLSFGATERWWEQDTLTKLIISNNKLQSLTDDLRLLPALTVLDIHDNQLTSL  
PSAIRELENLQKLNVSHNKLIKLPETITNLRNLKCLYLQHNE LTCISEGFEQLSNLEDLD  
LSNNHLTTPASFSSLSLVRNLSSNELKSLPAEINRMKRLKHLDCNSNLETIPPELA  
GMESLELLYLRRNKLRLFLPEFPSCSLKELHVGENQIEMLEAEHLKHLNSILVLDLRDNK  
LKSVPDEIILLRSLERLDLSNNDISSLPYSLGNLHLKFLALEGNPLRTIRREIISKGTQE  
VLKYLRSKIKDDGPSQSESATETAMTLPSESRVNIHAIITLKILDYSDKQATLIPDEVFD  
AVKSNIVTSINFSKNQLCEIPKRMVELKEMVSDVDLSFNKLSFISLELCVLQKLTFLDLR  
NNFLNSLPEEMESLVRQTINLSFNRFKMLPEVLYRIFTLETILISNNQVGSVDPQKMKM  
MENLTTLDLQNNDDLQIPPELGNCVNLRTLLLDGNPFRVPRAAILMKGTAAILEYLRDRI  
PT

>sp|Q9Y546|LRC42\_HUMAN Leucine-rich repeat-containing protein 42 OS=Homo sapiens  
GN=LRR42 PE=1 SV=1

MSYYLSSSENHLDPGPIYMRENGQLHMVNALDGVRSLLQKPRPFRLFPGKFSVELCMNRE  
DDTARKEKTDHFIFTYTREGNLRYSKSLFSLVLGFIISDNVDHIDSLIGFPEQIAEKLFS  
AAEARQKFTEPGAGLRALQKFTEAYGSLVLCSLCLRNRYLVISEKLEEIKSFRELTCLDL  
SCCKLGDEHELLEHLTNEALSSVTQLHLKDNCSDAGVRKMTAPVRVMKRGLENLTLLDL  
SCNPEITDAGIGYLFSTRKLNCLDISGTGLKDIKTVKHLKQTHIGLVHVKVPLKEFDHSN  
CKTEGWADQIVLQWERVTAEAVKPRETSEPRAAAQRFYGKRSRAEAPLKCPADTHMNSS  
EKLQFYKEKAPDCHGPVLKHEAISSQESKSKKRPFESETEQNSSQPSKQKYVCLAVE  
DWDLLNSY

>sp|Q9HCJ2|LRC4C\_HUMAN Leucine-rich repeat-containing protein 4C OS=Homo sapiens  
GN=LRR4C PE=1 SV=1

MLNKMTLHPQQIMIGPRFNALFDPLLVLALLQLLVAGLVRAQTCPSCSCSNQFSKV  
ICVRKNLREVPDGIISTNTRLLNLHENQIQIKVNSFKHLRHLEILQLSRNHIRTIEIGAF  
NGLANLNTLELFDNRLTTIPNGAFVYLSKLKELWLRNNPIESIPSYAFNRIPSLRRDLG  
ELKRLSYISEGAFEGLSNLRYLNLAMCNLREIPNLTPLIKDELDSLGNHLSAIRPGSFQ

GLMHLQKLWMIQSQIQVIERNAFDNLQSLVEINLAHNNLTLLPHDLFTPLHHLERIHLHH  
NPWNCNCDILWLSWWIKDMAPSNTACCARCNTPPNLKGRYIGELDQNYFTCYAPVIVEPP  
ADLNVTEGMAAELKCRASLTLSVSWITPNGTVMTHGAYKVRIAVLSDGTLNFTNVTVD  
TGMVTCMVSNVGNTTASATLNVTAAATTPFSYFSTVTVETMEPSQDEARTDNNVGPTP  
VVDWETTNVTTSLTPQSTRSTEKFTFTIPVTDINSGIPGIDEVMKTTKIIIGCFVAITLMA  
AVMLVIFYKMRKQHHRQNHAPTRTVEIINVDEITGDTPMESHLPMPAIEHEHLNHYS  
YKSPFNHTTTVNTINSIHSSVHEPLLIRMNSKDNVQETQI

>sp|Q8IWT6|LRC8A\_HUMAN Volume-regulated anion channel subunit LRRC8A OS=Homo sapiens  
GN=LRRC8A PE=1 SV=1

MIPVTELRVFADTQPAYRILKPWWDVFTDYISIVMLMIAVFGGTLQVTQDKMICLPCKWV  
TKDSCNDSFRGWAAPGPEPTYPNSTILPTDGTGIKYDLDRHQYNYVDAVCYENRLHW  
FAKYFPYLVLHHTLIFLACSNFWFKFPTSSKLEHFVSILLKCFDSPWTTRALSETVVEE  
SDPKPAFSKMNGSMDKKSSTVSEDVEATVPMLQRTKSRIEQGIVDRSETGVLDKKEGEQA  
KALFEKVKKFRTHVEEGDIVRLYMRQTIKVIKFIICITVYYVHNKFDVDCTVDIE  
SLTGYRTRYCAHPLATLFLKILASFYISLVIFYGLICMYTLWWMLRRSLKKYSFESIREES  
SYSDIPDVKNDFAFMLHLIDQYDPLYSKRFAVFLSEVSENKLRQLNLNEWTLDKLRQRL  
TKNAQDKLELHFLMLSGIPDVTVDLVEVLKLELIPDVTIPPSIAQLTGLKELWLYHTA  
AKIEAPALAFLRENLRALHIKFTDIKEIPLWIYSLKTLEELHLTGNLSAENNRYYIVIDGL  
RELKRLKVLRLKSNLSKLPQVVDVGVHLQKLSINNEGTKLIVLNSLKKMANLTELELIR  
CDLERIPHSIFSLHNLQEIDLKDNLKTIEEISFQHLHRLTCLKLWYNHAIYIPIQIGN  
LTNLERLYLNRNRIEKIPTQLFYCRKLRYLDLSHNNLTFLPADIGLLQNLQNLAITANRI  
ETLPPELFQCRKLRLHLGNNVLQSLPSRVGELTNLTQIELRGNRLECLPVELGECPLLK  
RSGLVVEEDLFTNLPPEVKERLWRADKEQA

>sp|Q8TDW0|LRC8C\_HUMAN Volume-regulated anion channel subunit LRRC8C OS=Homo sapiens  
GN=LRRC8C PE=1 SV=2

MIPVTEFRQFSEQQPAFRVLKPWWDVFTDYLSVAMLMIGVFGCTLQVMQDKIICLPKRVQ  
PAQNHSSLSNVSAVASTTPLPPKPSANPITVEMKGLKTDLDLQQYSFINQMCYERAL  
HWYAKYFPYLVLIHTLVFMLCSNFWFKFPGSSSKIEHFISILGKCFDSPWTTRALSEVSG  
EDSEEKDNRNKNMNRNTIQSGPEDSLVNSQSLKSIPKFFVDKSTAGALDKKEGEQAKA  
LFEKVKKFRHLHVEEGDILYAMYVRQTVLKVIFLIIAYNSALVSKVQFTVDCNVDIQDM  
TGYKNFSCNHTMAHLFSKLSFCYLCFVSIYGLTCLYTLWLFYRSLREYSFEYVRQETGI  
DDIPDVKNDFAFMLHMDQYDPLYSKRFAVFLSEVSENKLRQLNLNEWTPDKLRQKLQT  
NAHNRLELPLIMLSGLPDTVFETELQSLKLEIKNVMIPATIAQLDNLQELSLHQCSVK  
IHSAALSFLKENLKVLSVKFDDMRELPPWMYGLRNLEELYLVGSLSHDISRNVTLLESLRD  
LKSLKILSIKSNVSKIPQAVVDVSSHQKMCIHNDGTKLVMLNNLKKMTNLTELELVHCD  
LERIPHAVFSLSLQELDLKENNLKSIEEIVSFQHLRKLTVLKLWHNSITYIPEHIKLT  
SLERLSFSHNIKIEVLPSHLFLCNKIRYLDLSYNDIRFIPPEIGVLQSLQYFSITCNKVES  
LPDELYFCKKLTIKIGKNSLVSPKIGNLLFLSYLDVKGNHFEILPELGDCRALKRA  
GLVVEDALFETLPSDVREQMKE

>sp|A6NCL2|LRCL1\_HUMAN Leucine-rich colipase-like protein 1 OS=Homo sapiens GN=LRCL1  
PE=2 SV=3

MAGPGWTLTLLLLLLLLLLGSMAGYGPQKKLNLSHKGIGEPCRRHEECQSNCTINSLAPH  
TLCTPKTIFLQCLPWRKPNNGYRCSHDECCQSSCCVRNNSPQELCTPQSVFLQCVPRKPN  
GDFCSSHQECHSQCCIQLREYSPFRICPRTGILAQCLPL

>sp|Q9Y2U9|KLDC2\_HUMAN Kelch domain-containing protein 2 OS=Homo sapiens GN=KLHDC2 PE=1 SV=1

MADGNEDLRADDLPAPAFESYESMELACPAERSGHVAVSDGRHMFVWGGYKSNQVRGLYD  
FYLPREELWIYNMETGRWKKINTEGDVPPSMSCAVCVDRVLYLFGGHHSRGNTNKFYM  
LDSRSTDRLQWERIDCQGIPSSKDKLGVVYKNKLIFFGGYGLPEDKVLGTTFEDET  
SFWNSSHPRGWNHVDHILDTETFTWSQPITTGKAPSPRAAHACATVGNRGFVFGGRYRDA  
RMNDLHYLNLDTEWENELIPQGICPVGRSWHSLTPVSSDHLFLFGGFTTDKQPLSDAWTY  
CISKNEWIQFNHPYTEKPRLWHTACASDEGEVIVFGGCANNLLVHHRAAHSNEILIFSQ  
PKSLVRLSLEAVICFKEMLANSWNCLPKHLLHSVNQRFGSNNSTSGS

>sp|Q9Y4X4|KLF12\_HUMAN Krueppel-like factor 12 OS=Homo sapiens GN=KLF12 PE=1 SV=2

MNIHMKRRTIKNINTFENRMLMLDGMFAVRVKTELLESEQSPNVHNPDM EAVPLLLNN  
VKGEPPEDSLVDHFQTQTEPVDLSINKARTSPTAVSSSPVSMTASASSPSSTSTSSSSS  
SRLASSPTVITSVSSASSSSTVLTPGPLVASASGVGGQQFLHIHPVPPSSPMNLQSNKL  
SHVHRIPVVVQSPVVPVYTAVRSPGNVNTIVVPLEDGRGHGKAQMDPRGLSPRQSKSDS  
DDDDLPNVTLDVNETGSTALS IARAVQEVHPSPVSRVRGNRMNQKFPCSI SPFSIEST  
RRQRRESPPDSRKRRIRHRCDFEGCNKVYTKSSHLKAHRRHTHTGEKPYKCTWEGCTWK FAR  
SDELTRHYRKHTGVKPFKACDCRSFSRSDHLALHRRRHMLV

>sp|Q99612|KLF6\_HUMAN Krueppel-like factor 6 OS=Homo sapiens GN=KLF6 PE=1 SV=3

MDVLPMCSEIFQELQIVHETGYFSALPSLEEYWQQTCELELERYLQSEPCYVSASEIKFDSQ  
EDLWTKIILAREKKEESELKISSPPEDTLISPSFCYNLETNSLNSDVSSSESDSSEELS  
PTAKFTSDPIGEVLVSSGKLSSSVTSTPPSSPELSREPSQLWGCVPGELPSPGKVRSGTS  
GKPGDKNGDASPDGRRRVHRCHFNGCRKVYTKSSHLKAHQRTHTGEKPYRCSWEGCEWR  
FARDELTRHFRKHTGAKPFKCSHCDFSRSDHLALHMKRHL

>sp|Q8NBE8|KLH23\_HUMAN Kelch-like protein 23 OS=Homo sapiens GN=KLHL23 PE=1 SV=1

MALKGQEDYIYLFKDSTHPVDFLDAFRTFYLDGLFTDITLQCPSGII FHCHRAVLAACSN  
YFKAMFTADMKEKFNKIKLSGIHHDILEGLVNYAYTSQIEITKRNVSLL EAADLLQFL  
SVKKACERFLVRHLDIDNCIGMHSFAEFHVCPELEKESRRILCSKFKEVWQQEEFLEISL  
EKFLFILSRKNLSVWKEEAIIEPVIKWAHDVENRIECLYNLLSYINIDIDPVYLKTALG  
LQRSCLLTENKIRSLIYNALNPMHKEISQRSTATMYIIGGYWHPLSEVHIWDPLTNVWI  
QGAEIPDYTRESYGVTC LGPNIYVTGGYRTDNIEALDTVWIYNSESEWTEGLPMLNARY  
YHCAVTLGGCVYALGGYRKGAPEEA EFYDPLKEKWIPIANMIKGVGNATACVLHDV IYV  
IGGHCGYRGSCYTDKVQSYNSDIN EWSLITSSPHPEYGLCSVPFENKLYLVGGQTTITEC  
YDPEQNEWREIAPMMERRMECGAVIMNGCIYVTGGYSYSKGTYLQSI EKYDPDLNKWEIV  
GNLPSAMRSHGCVCVYNV

>sp|Q0D2K2|KLH30\_HUMAN Kelch-like protein 30 OS=Homo sapiens GN=KLHL30 PE=2 SV=3

MVRNVDDLDFHLP SHAQDMLDGLQRLRSQPKLADVTLVGGRELPC HRGLLALSSPYFHA  
MFAGDFAESFSARVELRDVEPAVVGQLVDFVYTGRLTITQGNVEALTRTAARLHFPSVQK  
VCGRYLQQQLDAANCLGICEFGEQQGLLGVA AKAWAFLRENFEAVAREDEFLQLPRERLV  
TCLAGDLLQVQPEQSRLEALMRVVRHDPQARAAHLP ELLSLVHLDVAPRPCVQQLASEP  
LIQESEACRAALSQGH DGAPLALQQKLEEVLVVVGQAEEEEAGEEPTPGLGNFAFYNS  
KAKRWMALPDFPDYHKWGFSLAALNNNIYVTGGSRGTKTDTWSTTQAWCFPLKEASWKPV  
APMLKPRTNHASALNGEIYVIGGTTLDVVEVESYDPYTD SWTPVSPALKYVSNFSAAGC  
RGRLYLVGSSACKYNALALQCYNPVTDASV IASPFLPKYLS SPCAALHGELYLIGDNT  
KKVYVYDPGANLWQKVQSQHS LHENGALVPLGDALYVTGGRWQGM EGDYHVEMEAYD TVR

DTWTRHGALPRLWLYHGASTVFLDVSKWTQPSGPTQEH

>sp|Q9P2K6|KLH42\_HUMAN Kelch-like protein 42 OS=Homo sapiens GN=KLHL42 PE=1 SV=2

MSAEEMVQIRLEDRCYPVSKRKLIEQSDYFRALYRSGMREALSQEAGGPEVQQLRGLSAP  
GLRLVLDFINAGGAREGWLLGPRGEKGGVDEDEEMDEVSLSELVEAASFLQVTSLLQL  
LLSQVRLNNCLEMYRLAQVYGLPDLQEACLRFMVVHFHEVLCKPQFHLLGSPQAPGDVS  
LKQRLREARMTGTPVLVALGDFLGGPLAPHPYQGEPPSMLRYEEMTERWFPLANNLPPDL  
VNVRGYGSAILDNYLFIVGGYRITSQEISAAHSYNPSTNEWLQVASMNQKRSNFKLVAVN  
SKLYAIGGQAVSNVECYNPEQDAWNFVAPLPNPLAEFSACECKGKIYVIGGYTTRDRNMN  
ILQYCPSSDMWTFLTETCDVHIRKQQMVSVEETIYIVGGCLHELGPNNRSSQSEDMLTVQS  
YNTVTRQWLYLKENTSKSGNLTCALHNDGIYIMSRDVTLSLEHRVFLKYNIFSDSWE  
AFRRFPAFGHNLLVSSLYLPNKAET

>sp|Q9BZL6|KPCD2\_HUMAN Serine/threonine-protein kinase D2 OS=Homo sapiens GN=PRKD2 PE=1 SV=2

MATAPSYAGLPGSPGPGSPPPPGGLELQSPPPLLPQIPAPSGVSFHIQIGLTREFVLL  
PAASELAHVKQLACSIDVQKFPECGFYGLYDKILLFKHDPTSANLLQLVRSSGDIQEGDL  
VEVVLASATFEDFQIRPHALTVHSYRAPAFCDHCGEMLFGLVRQGLKCDGGLNYHKRC  
AFSIPNNCSGARKRRLSSTSLASGHSVRLGTSESLPCTAEELSRSTTELLPRRPPSSSSS  
SSASSYTGRPIELDKMLLSKVVPHTFLIHSYTRPTVCQACKLLKGLFRQGLQCKDCKF  
NCHKRCATRVPNDCLEALINGDVPMEETDFSEADKSALMDESEDSGVIPGSHSENALH  
ASEEEEEGGGKAQSSLGYIPLMRVVQSVRHTTRKSSTTLREGVWVHYSNKDTRLKRHYWR  
LDCKCITLFQNNNTNRYKEIPLSEILTVEQAQNFSLVPPGTNPHCFEIVTANATYFVGE  
MPGGTPGGPSGQGAEEARGWETAIRQALMPVILQDAPSAPGHAPHRQASLSISVSNSQIQ  
ENVDIATVYQIFPDEVLGSGQFGVYGGKHKRTGRDVAVKVIDKLRFPTKQESQLRNEVA  
ILQSLRHPGIVNLECMFETPEKVFVVMKLGDMLEMLSSEKGRLEPERLTKFLITQILV  
ALRHLHFKNIVHCDLKPENVLLASADFPQVKLCDFGFARIIGEKSFRRSVVGTAYLAP  
EVLNQGYNRSLDMWSVGVIMYVSLSGTFPFNEDEDINDQIQNAAFMYPASPSHISAGA  
IDLINNLLQVKMRKRYSDKSLSHPWLQEYQTWLDLRELEGKMGERYITHESDDVRWEQF  
AAEHPLPGSGLPTDRDLGGACPPQDHDMQGLAERISVL

>sp|P41743|KPCI\_HUMAN Protein kinase C iota type OS=Homo sapiens GN=PRKCI PE=1 SV=2

MPTQRDSSTMSHTVAGGGSGDHSQVRVKAYYRGDIMITHFEPSSIFEGLCNEVRDMCSF  
DNEQLFTMKWIDEEGDPCTVSSQLELEEAFLYELNKDSELLIHVFPCVPERPGMPCPGE  
DKSIYRRGARRWRKLYCANGHTFQAKRFNRRAHCAICTDRIWGLGRQGYKCINCKLLVHK  
KCHKLVTEICGRHSLPQEPVMPMDQSSMHSQAQTVIPYNPSHESLDQVGEEKEAMNTR  
ESGASSSLGLQDFDLRLVIGRGSYAKVLLVRLKKTDRITYAMKVVKELVNDDDEDIDWVQ  
TEKHVFEQASNHPLVLGLHSCFQTESRLFFVIEYVNGGDLMFHMQRQRKLP EEHARFYSA  
EISLALNYLHERGIIYRDLKLDNVLLDSEGHIKLTDYGMCKEGLRPGDTTSTFCGTPNYI  
APEILRGEDYGFSDWWALGVLMFEMMAGRSPFDIVGSSDNPQNTEDYLFQVILEKQIR  
IPRSLSVKAASVLKSFNLKDPKERLGCHPQTGFADIQGHPPFRNVDWDMMEQKQVVPFVK  
PNISGEFGLDNFDSQFTNEPVQLTPDDDDIVRKIDQSEFEGFEYINPLMSAECEV

>sp|Q9BVA0|KTNB1\_HUMAN Katanin p80 WD40 repeat-containing subunit B1 OS=Homo sapiens GN=KATNB1 PE=1 SV=1

MATPVVTKTAWKLQEIVAHASNSSLVLGKASGRLLATGGDDCRVNLWSINKPNCIMSLT  
GHTSPVESVRLNTPEELIVAGSQSGSIRVWDLEAAKILRTLMGHKANICSLDFHPYGEFV  
ASGSQDTNIKLWDIRRKGCVFYRGHSQAVRCLRFSPDGKWLASAADDHTVKLWDLTAGK

MMSEFPGHTGPVNVVEFHPNEYLLASGSSDRTIRFDWLEKFQVVSCEGEPGPVRSVLFN  
PDGCCLYSGCQDSLRYGWEPERCFDVVLVNWGKVADLAICNDQLIGVAFSQSNVSSYVV  
DLTRVTRTGTVARDPVQDHRPLAQPLPNPSAPLRRYERPSTTCSKPQRVKQNSESEERS  
PSSEDDRRDERESRAEIQNAEDYNEIFQPKNSISRTPPRRSEFPAPPEDDAATAKEAAKP  
SPAMDVQFPVPNLEVLPRPPVASTPAPKAEPAIIPATRNEPIGLKASDFLPAVKIPQQA  
ELVDEDA MSQIRKGHDTMCVVLTSRHKNLDTVRVWMTGDIKTSVDSAVAINDL SVVVDL  
LNIVNQKASLWKLDLCTTVLPQIEKLLQSKYESYVQTGCTSLKLILQRFLPLITDMLAAP  
PSVGVDISREERLHKRLCYKQLKLSISGLVKS KSGLSGRHGSTFRELHLLMASLD

>sp|Q86VI4|LAP4B\_HUMAN Lysosomal-associated transmembrane protein 4B OS=Homo sapiens  
GN=LAPTM4B PE=1 SV=1

MELHERPDERRKARTSTQGR LGDWRRVHADGFTHRVLGAPAAWSSSSWLEPAMTSRTRV  
TWSPPPRLPVPAAAAVAFGAKGTDPAEARSSRGIEEAGPRAHGRAGREPERRRSRQQR  
GGLQARRSTLLKTCARARATAPGAMKMVAPWTRFYNSCCLCCHVRTGTILLGVWYLIIN  
AVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICAMATYGAYKQ  
RAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVL  
IILLFISIILTFKGYLISCVWNCYRYINGRNSSDVLVYVTSNDTTVLLPPYDDATVNGAA  
KEPPPPYVSA

>sp|Q569H4|LARGN\_HUMAN Protein Largin OS=Homo sapiens GN=PRR16 PE=1 SV=1

MSAKSKGNPSSSCPAEGPPAASKTKVKEQIKIIVEDLELVLGDLKDVAKELKEVVDQIDT  
LTSDLQLEDEMTDSSKTDLTNSSSSGTTASSLEKIKVQANAPLIKPPAHP SAILTVLRKP  
NPPPPPPRLTPVKCEDPKRVPTANPVKTNGTLLRNGGLPGGPNKIPNGDICCIPNSNLD  
KAPVQLLMHRPEKDRCPQAGPRERVRFNKQVYHGYCPDCDTRYNIKNREVHLHSEPVHP  
PGKIPHQGPPLPPTPHLPPFPLENGGMGISHSNSFPPIRPATVPPPTAPKPQKTILRKST  
TTTV

>sp|Q6PKG0|LARP1\_HUMAN La-related protein 1 OS=Homo sapiens GN=LARP1 PE=1 SV=2

MATQVEPLLPGGATLLQAEHGLVRKKPPPAPEGKGEPGPNDRVGGEPDGSARRPRPPC  
AKPHKEGTGQQUERESPRPLQLPGAEGPAISDGEEGGEPGAGGAAGAAGARRDFVEAP  
PPKVNPTKNALPPVLTTVNGQSPPEHSAPAKVVRAAVPKQRKGSKVGD FGDAINWPTPG  
EIAHKSVPQSHKPQTRKLPPKKDMKEQEKGE GSDSKESP KTKSDES GEEKNGDEDCQR  
GGQKKKGKHKHWVPLQIDMKPEVPREKLASRPTRPPEPRHIPANRGEIKGSESATYVPVA  
PPTPAWQPEIKPEPAWHDQDETSSVKSDGAGGARASFRGRGRGRGRGRGRGGTRTHFD  
YQFGYRKFDGVEGPRTPKYMNNITYYFDNVSSTELYSVDQELLKDYIKRQIEYYFSVDNL  
ERDFFLRKMDADGFLPITLIASFHRVQALTTDISLIFAALKDSKVVEIVDEKVRREEP  
EKWLPPIVDYSQTD FSQLLNCPFEVPRQHYQKETESAPGSPRAVTPVPTKTEEVS NLKT  
LPKGLSASLPDLSENWIEVKRPRSPARPKKSESRFSLTSLPQQLPSQQLMSKDQD  
EQEELDFLFDEEMEQMDGRKNTFTAWSDEESDYEIDDRDVNKILIVTQTPHYMRRHPGGD  
RTGNHTSRAKMSAELAKVINDGLFYEQDLWAEKFEPEYSQIKQEVENFKKVN MISREQF  
DTLTPEPPVDPNQEVPPGPPRFQVPTDALANKLFGAPEPSTIARSLPTTVPESPNYRNT  
RTPRTPTPQLKDSSQTSRFYPVVKEGRTLDAKMPKRKRTRHSSNPPLSHVGVWMDSRE  
HRPRTASISSPSEGTPTVGSYGCTPQSLPKFQHPSHELLKENGFTQHVVYHKYRRRCLNE  
RKRLGIGQSQEMNTLFRFWSFFLRDHFNKKMYEEFKQLALEDAKEGYRYGLECLFRYYSY  
GLEKKFRLDIFKDFQEETVKDYEAGQLYGLEKFWAFLKYSKAKNLIDPKLQEYLGKFRR  
LEDFRVDPPMGEENHKRHSV VAGGGGEGRKRCPSQSSSRPAAMISQPPTPPTGQPVRE  
DAKWTSQHSNTQTLGK

>sp|Q14739|LBR\_HUMAN Lamin-B receptor OS=Homo sapiens GN=LBR PE=1 SV=2

MPSRKFADGEVVRGRWPGSSLYEVEILSHDSTSQLYTVKYKDGTELELKENDIKPLTSF  
RQRKGGSTSSSPSRRRRSRSRSRSPGRPPKSARRSASASHQADIKEARREVEVKLTPL  
ILKPFGNSISRYNGEPEHIERNDAPHKNTQEKFSLSQESSYIATQYSLRPRREEVKLEI  
DSKEEKYVAKELAVRTFEVTPIRAKDLEFGGVPGVFLIMFGLPVFLFLLLLMCKQKDPSL  
LNFPPPLPALYELWETRVFGVYLLWFLIQVLFYLLPIGKVEGTPLIDGRRLKYRLNGFY  
AFILTSAVIGTSLFQGVFEHYVYSHFLQFALAATVFCVLSVYLYMRSCLKAPRNDLSPAS  
SGNAVYDFFIGRELNPRICTFDLKYFCELRPGLIGWVINLVMLLAEMKIQDRAVPSLAM  
ILVNSFQLLYVVDALWNEEALLTMDIIHDGFGFMLAFGDLVWVPFIYSFQAFYLVSHPN  
EVSWPASLIIVLKLCGYVIFRGANSQKNAFRKNPSDPKLAHLKTIHTSTGKNLLVSGWW  
GFVRHPNYLGDLMALAWSLPCGFNHILPYFYIIYFTMLLVHREARDEYHCKKYGVAWE  
KYCQRVPYRIFPYIY

>sp|Q5T7P3|LCE1B\_HUMAN Late cornified envelope protein 1B OS=Homo sapiens GN=LCE1B PE=1  
SV=1

MSCQQNQCCQPPPKCIPKCPPKCLTPRCPPKCPPKCPPVSSCCSVSSGGCCGSSSGGSC  
GSSSGGCCSSGGGGCCLSHHRRRRSHCHRPQSSGCCSQPSGGSSCCGGGSGQHSGGCC

>sp|Q5TA77|LCE3B\_HUMAN Late cornified envelope protein 3B OS=Homo sapiens GN=LCE3B PE=1  
SV=1

MSCQQNQCCQPLPKCPSPKCPPKSSAQCLPPASSCCAPRPGCCGGSSEGGCCLSHHRC  
CRSHRCRRQSSNSCDRGSGQQDGASDCGYGSGGCC

>sp|Q5TCM9|LCE5A\_HUMAN Late cornified envelope protein 5A OS=Homo sapiens GN=LCE5A PE=2  
SV=1

MSCQQSQCCQPPPKCTPKCPPKCTPKCPPKCPPKCPPQCSAPCPPPVSSCCGSSSGGCC  
SSEGGGCCLSHHRPRQSLRRRPQSSSCGSGSGQQSGGSSCCHSSGSGCCHSSGGCC

>sp|Q6UWP7|LCLT1\_HUMAN Lysocardiolipin acyltransferase 1 OS=Homo sapiens GN=LCLAT1 PE=1  
SV=1

MHSRGREIVVLLNPWSINEAVSSYCTYFIKQDSKSGIMVSWKGIYFILTLFWGSFFGSI  
FMLSPFLPLMFVNPSWYRWINNRLVATWLTLPVALLETMFGVKVIITGDAFVPGERSVII  
MNHRTMDWMFLWNCLMRYSYLRLEKICLKASLKGVPFGWAMQAAAYIFIHRKWKDDKS  
HFEDMIDYFCDIHEPLQLLIFPEGTDLTENSRSNAFAEKNGLQKYEYVLHPRTTGFTF  
VVDRLREGKNLDAVHDITVAYPHNIPQSEKHLQGDGPREIHFHVHRYPIDTLPTSKE  
DLQLWCHKRWEEKERLSFYQGEKNFYFTGQSVIPPCKSELRLVVKLLSILYWTLFSPAM  
CLLIYLYSLVKWYFIITIVIFVLQERIFGGLEIIEIACYRLLHKQPHLNSKKNE

>sp|Q9UIC8|LCMT1\_HUMAN Leucine carboxyl methyltransferase 1 OS=Homo sapiens GN=LCMT1 PE=1  
SV=2

MATRQRESSITSCCSTSSCDADDEGVRGTCEASLCKRFAVSIGYWHDPYIQHFVRLSKE  
RKAPEINRGYFARVHGVSQLIKAFRLKTECHCQIVNLGAGMDTTFWRLKDEDLPSKYFE  
VDFPMIVTRKLHSIKCKPPLSSPILELHSEDTLQMDGHILDSKRYAVIGADLRDLSELEE  
KLKKCNMNTQLPTLLIAECVLVYMTPEQSANLLKWAANSFERAMFINYEQVNMGDRFGQI  
MIENLRRRQCDLAGVETCKSLESQKERLLSNGWETASAVDMMELYNRLPRAEVSRIESLE  
FLDEMELLEQLMRHYCLCWATKGGNELGLKEITY

>sp|P62502|LCN6\_HUMAN Epididymal-specific lipocalin-6 OS=Homo sapiens GN=LCN6 PE=1 SV=1  
MGGLLLAAFLALVSVPRQAVWLGRLDPEQLLGPWYVLAVASREKGFAMEKDMKNVVGVV  
VTLTPENNRLTLSSQHGLGGCDQSVMDLIKRN SGWVFENPSIGVLELWVLATNFRDYAII



FTQLEFGDEPFNTVELYSLTETASQEAMGLFTKWSRSLGFLSQ

>sp|Q6ZMR3|LDH6A\_HUMAN L-lactate dehydrogenase A-like 6A OS=Homo sapiens GN=LDHAL6A PE=2 SV=1

MATIKSELIKNFAEEEEAIHHNKISIVGTGSGVACAIISILLKGLSDELVLVDVDEGKLG  
ETMDLQHGSPFMKMPNIVSSKDYLVTANSNLVIITAGARQKKGETRLDLVQRNVSIFKLM  
IPNITQYSPHCKLLIVTNPVDILTYVAWKLSGFPKNRVIGSGCNLDSARFRYFIGQRLGI  
HSESCHGLILGEHGDSSVPVWSGVNIAGVPLKDLNPDIGTDKDPEQWENVHKKVISSGYE  
MVKMKGYTSWGISLSVADLTESILKNLRRVHPVSTLSKGLYGINEDIFLSVPCILGENGI  
TDLIKVKLTLEEEACLQKSAETLWEIQKELKL

>sp|P48357|LEPR\_HUMAN Leptin receptor OS=Homo sapiens GN=LEPR PE=1 SV=2

MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSMPPNSTYDYFLLPAGLSKNTS  
NGHYETAVEPKFNSSGTHFSNLSKTTFHCCFRSEQDRNCSLCADNIEGKTFVSTVNSLVF  
QQIDANWNIQCWLKGDCLKFICYVESLFKNLFRNYNYKVHLLYVLPEVLEDSPLVPQKGS  
FQMVHCNCSVHECCECLVPVPTAKLNDTLLMCLKITSGGVIFQSPLMSVQPINMVKPDPP  
LGLHMEITDDGNLKISWSSPPLVPFPLQYQVKYSENSTTVIREADKIVSATSLLVDSILP  
GSSYEVQVRGKRLDGPGIWSDWSTPRVFTTQDVIYFPPKILTSVGSNVSFHCIYKKENKI  
VPSKEIVWWMNLAEKIPQSQYDVVSDHVSKVTFFNLNETKPRGKFTYDAVYCCNEHECHH  
RYAELYVIDVNINISCETDGYLTKMTCRWSTSTIQSLAESTLQLRYHRSSLYCSDIPSIH  
PISEPKDCYLQSDGFYECIFQPIFLLSGYTMWIRINHSLGSLDSPPTCVLPDSVVKPLPP  
SSVKAETINIGLLKISWEKPVFPENNLQFQIRYGLSGKEVQWKMYEVYDAKSKSVSLPV  
PDLCAVYAVQVRCKRLDGLGYWSNWSNPAYTVVMDIKVPMRGPEFWRIINGDTMKKEKNV  
TLLWKPLMKNDSLCSVQRYVINHHTSCNGTWEDEVGNHTKFTFLWTEQAHTVTVLAINSI  
GASVANFNLTFSWPMKVNIVQSL SAYPLNSSCVIVSWILSPSDYKLMYFII EWKNLNED  
GEIKWLRISSSVKKYYIHDHFIPIEKYQFSLYIFMEGVGPKIINSFTQDDIEKHQSDA  
GLYVIVPVIISSSILLGLTLLISHQRMKKLFWEDVPNPKNCSSWAQGLNFQKPFTEHLFI  
KHTASVTCGPLLLEPETISEDISVDTSWKNKDEMMPTTVVSLSTTDLEKGSVCISDQFN  
SVNFSEAEGTEVTYEDESQRQPFVKYATLISNSKPSSETGEEQGLINSSVTKCFSSKNSPL  
KDSFNSSSWEIEAQAFFILSDQHPNII SPHLTFSEGLDELLKLEGNFPEENNDKKSIIYL  
GVTSIKKRESGVLLTDKSRVSCPFPAPCLFTDIRVLQDSCSHFVENNINLGTSSKKTFFAS  
YMPQFQTCSTQTHKIMENKMCDLTV

>sp|P41159|LEP\_HUMAN Leptin OS=Homo sapiens GN=LEP PE=1 SV=1

MHWGTLGFLWLWPYLFYVQAVPIQKVQDDTKTIKTIVTRINDISHTQSVSSKQVTGL  
DFIPGLHPILTLSKMDQTLAVYQQILTSMPSRNVIQISNDLENLRDLLHVLAFSK SCHLP  
WASGLETLDSLGGVLEASGYSTEVVALSRLQGS LQDMLWQLDLSPGC

>sp|O95202|LETM1\_HUMAN LETM1 and EF-hand domain-containing protein 1, mitochondrial  
OS=Homo sapiens GN=LETM1 PE=1 SV=1

MASILLRSCRGRAPARLPPPPRYTVPRGSPGDP AHLSCASTLGLRNCLNVPFGCCTPIHP  
VYTSSRGDHLGCWALRPECLRIVSRAPWTSTSVGFVAVGPQCLPVRGWHSSRPVRDDSVV  
EKSLKSLKDKNKKLEEGPVYSPPAEVVVKSLGQRVLDELKHYYHGFRLLWIDTKIAAR  
MLWRIINGHSLTRRERRQFLRICADLFRLPFLVFVVVPFMEFLLPVAVKLFPNMLPSTF  
ETQSLKEERLKKELRVKLELAKFLQDTIEEMALKNKAAGSATKDFS VFFQKIRETGERP  
SNEEIMRFSKLFEDLTLDNLTRPQLVALCKLLELQSIGTNNFLRFQLTMRLRSIKADDK  
LIAEAGVDSLNVKELQAACRARGMRALGVTEDRLRGQLKQWLDLHLHQEIPTSLLILSRA  
MYLPDTLSPADQLKSTLQTLPEIVAKEAQVKVAEVEGEQVDNKAKLEATLQEEAAIQQEH

REKELQKRSEVAKDFEPERVVAAPQRPGETPQPEMPDVLQSETLKDTAPVLEGLKEEEI  
TKEEIDILSDACSKLQEQQKSLTKEKEELELLKEDVQDYSEDLQEIKKELSKTGEEKYVE  
ESKASKRLTKRVQQMIGQIDGLISQLEMDQQAGKLAPANGMPTGENVISVAELINAMKQV  
KHIPESKLTSLAAALDENKDGKVNIDDLVKVIELVDKEDVHISTSQVAEIVATLEKEEKV  
EEKEKAKEKAKEVAEVKS

>sp|O43766|LIAS\_HUMAN Lipoyl synthase, mitochondrial OS=Homo sapiens GN=LIAS PE=1 SV=3  
MSLRCGDAARTLGPVFGRYFCSPVRPLSSLPDKKKELLQNGPDLQDFVSGDLADRSTWD  
EYKGNLKRQKGERLRLPPWLKTEIPMGKNYNKLKNTLRNLNLHTVCEEARCPNIGECWGG  
GEYATATATIMLMDGTCTRGCRFCSVKTARNPPPLDASEPYNTAKAIAEWGLDYVVLTSV  
DRDDMPDGGAEHIAKTVSYLKERNPKILVECLTPDFRGDLKAIEKVALSGLDVYAHNVET  
VPQLQSKVRDPRANFDQSLRVLKHAKKVQPDVISKTSIMLGLGENDEQVYATMKALREAD  
VDCLTLGQYMQPTRRHLKVEEYITPEKFKYWEKVGNELGFHYTASGPLVRSSYKAGEFFL  
KNLVAKRKTKDL

>sp|Q9BT23|LIMD2\_HUMAN LIM domain-containing protein 2 OS=Homo sapiens GN=LIMD2 PE=1 SV=1  
MFQAAGAAQATPSHDAKGGGSSTVQRSKSFSLRAQVKETCAACQKTVPMERLVADKLIF  
HNSCFCKHCHTKLSLGSYAALHGEFYCKPHFQQLFKSKGNYDEGFGRKQHKELWAHKEV  
DPGTTKA

>sp|Q96GY3|LIN37\_HUMAN Protein lin-37 homolog OS=Homo sapiens GN=LIN37 PE=1 SV=1  
MFPVKVKEKSELEMAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAA  
TGKRPSARFPHQRRKKRREMDDGLAEGGPQRSNTYVIKLFDRSVDLAQFSENTPLYPICR  
AWMRNPSVRERECSPSSPLPLPEDEEGSEVTNSKSRDVYKLPPPTPPGPPGDACRSRI  
PSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKRIRQRWKEASHRNQLRYSESMKILR  
EMYERQ

>sp|Q5TKA1|LIN9\_HUMAN Protein lin-9 homolog OS=Homo sapiens GN=LIN9 PE=1 SV=1  
MAELDQLPDESSAKALVSLKEGSLSNWNEKYSSLQKTPVWKGNTSSAVEMPFRNSKR  
SRLFSDDDRQINTRSPKRNQVAMVPQKFTATMSTPDKKASQKIGFRLRNLLKLPKAHK  
WCIYEFYFYNIDKPLFEGDNDFCVCLKESFPNLKTRKLTRVEWGKIRRLMGKPRRCSSAF  
FEEERSALKQKRQKIRLLQQRKVADVQFKDLPDEIPLPLVIGTKVTARLRGVHDGLFTG  
QIDAVDTLNATYRVTFDRTGLGTHTIPDYEVLNPHETMPIAAGGQKQRPSRFFMTPPR  
LHYTPPLQSPIIDNDPLLQSPWRSKISGSDTETLGGFPVEFLIQVTRLISKILMIKKEHI  
KKLREMNTAEKLSYSMPISIEFQRRYATIVLELEQLNKDLNKLHVKVQQYCYELAPDQ  
GLQPADQPTDMRRRCHEEAQEIVRHANSSTGQPCVENENLTDLISRLTAILLQIKCLAEG  
GDLNSFEFKSLTDSLNDIKSTIDASNISCFQNNVEIHVAHIQSGLSQMGNLHAFANNTN  
RD

>sp|O75335|LIPA4\_HUMAN Liprin-alpha-4 OS=Homo sapiens GN=PPFIA4 PE=2 SV=3  
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AIHERDQLQRHLNSALPQEFATLTRELSMCREQLLEREEISELKAERNNTRLLEHLEC  
LVSRHERSLRMTVVKRQAQSPSGVSSEVEVLKALKSLFEHHKALDEKVRERLRAALERV  
TLEEQLAGAHQQVSALQQGAGVRDGAAEEGTVELGPKRLWKEDTGRVEELQELLEKQNF  
ELSQARERLVTLTVTTEEDLTARRDLIKSEELSSKHQRDLREALAQKEDMEERITT  
LEKRYLAAQREATSIHDLNDKLENELANKESLHRQCEEKARHLQELLEVAEQKLQQTMRK  
AETLPEVEAELAQRIAALTKAEERHGNIIEHLRQLEGQLEEKNQELARTAVQVRQREKMN  
EDHNKRLSDTVDRLLSESNERLQLHLKERMAALEEKNTLIQELESSQRQIEEQHHHKGR  
SEEIEKLREQVDQLKGRGGPFVDGVHSRSHMGSAADVRFSLGTTTHAPPGVHRRYSALRE

ESAKLALPLTVTLRSP TWMRMSQGVCCNLEYHSSGTL CGSSGPLVPPEMIQEEKESTELR  
AEEIETRVTS GSMEALNLKQLRKRGS IPTSLTALSLASAPPLSGRSTPKLTSRSAAQDL  
DRMGVMTLP SDLRKHRRKLLSPVSREENREDKATIKCETSPSPSPRTLRLLEKLGH PALSQ  
EEGKSALEDQGSNPSSSSNSQDSLHKGAKRKG IKS SIGRLFGKKEKGRLIQLSRDGATGH  
VLLTDSEFSMQEPMVPAKLGTQAEKDRRLKKKHQLLEDARRKGMPFAQWDGPTV VSWLEL  
WVGMPAWYVAACRANVKSGAIMSALS DTEIQREIGISNALHRLKLRLAIQEMVSLTSPSA  
PPTSRTSSGNVWVTHEEMETLETSTKTDSEEGSWAQT LAYGDMNHEWIGNEWLP SLGLPQ  
YRSYFMECLVDARMLDHLTKKDLRVHLKMVDSFHRTSLQY GIMCLKRLNYDRKELEKRRE  
ESQHEIKDVLVW TNDQVVHWVQSIGLRDYAGNLHESGVHGALLALDENFDHNTLALILQI  
PTQNTQARQVMEREFNLLALG TDRKLDGDDKVFRRAPSWRKRFRPREHHGRG GMLSAS  
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>sp|Q5T7N2|LITD1\_HUMAN LINE-1 type transposase domain-containing protein 1 OS=Homo sapiens GN=LITD1 PE=1 SV=1

MSDVSTSVQSKFARLAKKKENITYMKREQLTETDKDIAPVLDLKCKDVS AIMNKFVKLME  
IQDLMFEEMRET LKNDLKAVLGKATIPEVKNSSENSSRTEFQQI INLALQKTGMVGKIE  
GENSKI GDDNENLTFKLEVNELSGKLDNTNEYSNDGKKLPQGESRSYEV MGSMEETLCN  
IDDRDGNRNVHLEF TERESRKDGEDEFVKEMREERKFQKLKNKEEVLKASREEKVL MDEG  
AVLTLVADLSSATL DISKQWSNVFNILREND FEPKFLCEVKLAFKCDGEIKTFSDLQSLR  
KFASQKSSVKELLKDVL PQKEEINQGGRKYGIQEKRDKTLIDSKHRAGEITS DGLSFLFL  
KEVKVAKPEEMKNLETQEEEFSELEELDEEASGMEDDEDTSGLEEEEEEP SGLEEEEEEE  
ASGLEEDEASGLEEEEEETSEQDSTFQGHTLVDAKHEVEITSDGMETTFIDSVEDSESEE  
EEEGKSSETGKVKTTSLTEKKASRRQKEIPFSYLVGDSGKKLVKHQVVHKTQEEETAV  
PTSQGTGTPCLTLCLASPSKSLEMSHDEHKKHSHTNLSISTGVTKLKKTEEKKHRTLHTE  
ELTSKEADLTEETEENLRSSVIN SIREIKEEIGNLKSSHSGVLEIENSVDLSSRMDILE  
ERIDSLEDQIEEF SKDTMQMTKQII SKERQRDIEERSRSCNIRLIGIPEKESYENRAEDI  
IKEIIDENFAELKKGSSLEIVSACRVPSKIDEKRLTPRHILVKFWNSSDKEKII RASRER  
REITYQGTRIRLTADLSLDTLDARSKWSNVFKV LLEKGFNPRILYPAKMAFD FRGKTKVF  
LSIEEFRDYVLHMP TLRRELLGNNIP

>sp|Q8TD35|LKAM1\_HUMAN Protein LKAAEAR1 OS=Homo sapiens GN=LKAAEAR1 PE=2 SV=3

MPPPAKEGGRKGPRERSGKSAPGTAQGEERAKGAPATEPPKPGWALTPQGLAAMLPAQRH  
RHLLFGD LLEDVGAAASTFPCGSVEPGYRMPDPRPWTQSLELPAERQNRL LGVLKAAEAR  
GRVRALRLRYTRMAEEIALLIQRQKSARAAIRLELFLPPQLKPARIPDPLDRQERRRVE  
TILEENV DGTIFPR

>sp|Q96S06|LMF1\_HUMAN Lipase maturation factor 1 OS=Homo sapiens GN=LMF1 PE=1 SV=1

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AFVYFVAFVLVAFHQNKQLIGDRGLLPCR VFLKNFQQYFQDRTSWEVFSYMP TILWMDWS  
DMNSNLDLLALLGLGISSFVLITGCANMLLMAALWGLYMSLVNVGHVWYSFGWESQLLET  
GFLGIFLCPLWTL SRLPQHPTSRIVLWGFRLIFRIMLGAGLIKIRGDRCWRDLTCMDF  
HYETQMPNPVAYYLHHSPPWWFHRFETLSNHFI ELLVPFFLFLGRRACIIHGVLQILFQA  
VLIVSGNLSFLNWLTMVPSLACFDDATLGFLFSPGPGSLKDRVLQMQRDIRGARPEPRFG  
SVVRR AANVSLGVLLAWLSVPVVLNLLSSRQVMNTHFNSLHIVNTYGAFGSITKERA EVI  
LQGTASSNASAPDAMWEDYEFKCKPGDPSRRPCLISPYHYRLDWLMWFAAFQTYEHNDWI  
IHLAGKLLASDAEALSLLAHNPFAGRPPPRWVRGEHYRYKFSRPGGRHAAEGKWWVRKRI  
GAYFPPLSLEELRPYFRDRGWPLPGPL

MSPPSPGRRREQRRPRAAATMATPLPGRAGGPATPLSPTRLRLQEKEELRELNDRLAHY  
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IGKRLAELDEVNKSAKKREGELTVAQGRVKDLESLFHRSEVELAAALSDKRGLESDVAEL  
RAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELDFRKSVFEEEVRETRRRHERR  
LVEVDSSRQQEYDFKMAQALEELRSQHDEQVRLYKLELEQTYQAKLDSAKLSSDQNDKAA  
SAAREELKEARMRLESLSYQLSGLQKQASAAEDRIRELEEAMAGERDKFRKMMLDAKEQEM  
TEMRDVMQQQLAEYQELLDVKLALDMEINAYRKLLGEGERLKLSPSPSSRVTVSRATSS  
SSGSLSATGRLGRSKRKRLEVEEPLSGSPSVLGTGTGGSGGFHLAQQASASGSVSIEEID  
LEGKFVQLKNNSDKDQSLGNWRIKRQVLEGEEIAYKFTPKYILRAGQMVTVWAAGAGVAH  
SPPSTLVVWKGGQSSWGTGESFRTVLVNADGEEVAMRTVKKSSVMRENENGEAAAAAEFGE  
EDLFHQQGDPRTTSRGCYVM

MPAPGALILLAAVSASGCLASPAHPDGFALGRAPLAPPYAVVLI SCSGLLAFIFLLLTCL  
CCKRGDVGFKEFENPEGEDSCGEYTPPAEETSSSSQSLPDVYIILPLAEVSLPMPAPQPSHS  
DMTTPLGLSRQHL SYLQEIGSGWFGKVI LGEIFSDYTPAQVVVKELRASAGPLEQRKFIS  
EAQPYRSLQHPNVLQCLGLCVETLPFLLIMEFCQLGDLKRYLRAQRPPEGLSPELPPRDL  
RTLQRMGLEIARGLAHLHSHNYVHSDLALRNCLLTSDLTVRIGDYGLAHSNYKEDYYLTP  
ERLWIPLRWAAPELLGELHGTFMVVDQSRESNIWSLGVTLWELFEFGAQPYRHLSDEEVL  
AFVVRQQHVKLARPLKLPYADYWDILQSCWRPPAQPSASDLQLQLTYLLSERPPRPP  
PPPPPPRDPGPFPPWPPAHSAPRPGTSSPFLLDGFPGADPDDVLTVTSSRGLNLECL  
WEKARRGAGRGGGAPAWQPASAPPAPHANPSNPFYEALSTPSVLPI SARSPSVSSEYYI  
RLEEHGSPPELFPNDWDPLDPGPVAPQAPQAPSEVPQLVSETWASPLFPAPRPFFAQSS  
ASGSFLLSGWDPEGRGAGETLAGDPAEVLGERGTAPWVEEEEEEEGSSPGEDSSSLGGG  
PSRRGPLPCPLCSREGACSCPLERGDVAGWGHPALGCPHPPEDDSSSLRAERGLADL  
PMAPPASAPPEFLDPLMGAAAPQYPGRGPPAPPPPPPPRAPADPAASDPPSAVASPG  
SGLSSPGPKPGDSGYETETPFSPGAFPGGGAAEEEGVPRPRAPPEPPDPGAPRPPDPG  
PLPLPGPREKPTFVVQVSTEQLMSLREDVTRNLLGEKGATARETGRPKAGRGPNGREKV  
PGLNRDPTVLGNKGQAPSLSLPVNGVTVLENG DQRAPGIEEKA AENGALGSPEREK VLE  
NGELTPPRREEKALENGELRSPEAGEKVLVNGGLTPPKSEDKVSENGGLRFPRNTERPPE  
TGPWRAPGPWEKTPESWGPAPTIGEPAPETSLERAPAPSAVVSSRNGGETAGPLGPAPK  
NGTLEPGTERRAPETGGAPRAPGAGRLDLGSGGRAPVGTGTAPGGGPGSGVDAKAGWVDN  
TRPQPPPPPLPPPPEAQPRRLEAPPRARPEVAPEGEFGAPDSRAGGDTALSGDGDPPKP  
ERKGPEMPRLFLDLGPPQGNSEQIKARLSRLSLALPPLTLTPFPGPGPRRPPWEGADAGA  
AGGEAGGAGAPGPAEEDGEDEDEDEEEDEEAAAPGAAAGPRGPGRARAAPVPVVSSADA  
DAARPLRGLLKSPRGADEPEDSELERKRMVSFHGDVTYVLF DQETPTNELSVQAPPEGD  
TDPSTPPAPPTPPHPATPGDGFPSNDSGFGGSFEWAEDFLLPPPGPPLCFSRFSVSPAL  
ETPGPPARAPDARPA GPVEN

MVDVKCLSDCKLQNQLEKLGFSGPILPSTRKLYEKKLVQLLVSPPCAPPVMNGPRELDG  
AQDSDDESELNIIILQGNIIILSTESKKLKKWPEASTTKRAVDITYCLDYKPSKGRRWAAR  
APSTRITYGTITKERDYCAEDQTIESWREEGFPVGLKLAVLGIFIIVVFVYLTVENKSLF

>sp|Q8WVC0|LEO1\_HUMAN RNA polymerase-associated protein LEO1 OS=Homo sapiens GN=LEO1 PE=1 SV=1

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LFGDDSEDEGASHHSGSDNHSESDNRSEASERSDHEDNDPSDQVQHSQSEAPNDDEDEG  
HRSDGGSHHSEAEGSEKAHSDDEKWGREDKSDQSDDEKIQNSDDEERAQGSDEDKLQNSD  
DDEKMQNTDDEERPQLSDDERQQLSEEEKANSDDERPVASDNDDEKQNSDDEEQQLSDE  
EKMQNSDDERPQASDEEHRHSDDEEQDHKSESARGSDSEDEVLRMKRKNAIASDSEADS  
DTEVPKDNSGTMDLFGGADDISSGSDGEDKPPTPGQPVDENGLPQDQEEEEPIPETRIEV  
EIPKVNTDLGNDLYFVKLPNFLSVEPRPFDPPQYYEDEFEDEEMLDEEGRTRLKLVKVENTI  
RWRIRRDEEGNEIKESNARIVKWDGSMHLHLGNEVFDVYKAPLQGDHNLHFIRQGTGLQ  
GQAVFKTKLTFRPHSTDSATHRKMTLSLADRCSTQKIRILPMAGRDPECQRTEMIKKEE  
ERLRASIRRESQRRMRKQHQRLSASYLEPDRYDEEEEGEESISLAAIKNRYKGGIRE  
ERARIYSSDSDEGSEEDKAQRLKAKKLTSDEEGEPGKRKAEDDDKANKKKHKYVISDE  
EEEDDD

>sp|Q969X1|LFG3\_HUMAN Protein lifeguard 3 OS=Homo sapiens GN=TMBIM1 PE=1 SV=2

MSNPSAPPPYEDRNPLYPGPPPGGYGQPSVLPGGYPAYPGYPQPGYGHYPAGYPQPMPT  
HPMPMNYGPGHGYDGEERAVSDSFGPGEWDDRKVRHTFIRKVYSIISVQLLITVAIIAIF  
TFVEPVSAFVRRNAVYVYSYAVFVVTYLILACCQGPRRRFPWNIILLTLFTFAMGFMTG  
TISSMYQTKAVIIAMIITAVVSISVTIFCFQTKVDFTSCTGLFCVLGIVLLVTGIVTSIV  
LYFQYVYWLHMLYALGAICFTLFLAYDTQLVLGNRKHTISPEDYITGALQIYTDIIYIF  
TFVLQLMGDRN

>sp|075610|LFTY1\_HUMAN Left-right determination factor 1 OS=Homo sapiens GN=LEFTY1 PE=2 SV=1

MQPLWLCWALWVPLASPGAALTGEQLLGSLLRQLQLKEVPTLDRADMEELVIPTHVRAQ  
YVALLQRSHGDRSRGKRFSQSFRVAGRFLALEASTHLLVFGMEQRLPPNSELVQAVLRL  
FQEPVPKAALHRHGRLSPRSARARVTVEWLRVRDDGSNRTSLIDSRLVSVHESGWKAFDV  
TEAVNFWQQLSRPRQPLLLQVSVQREHLGPLASGAHKLVRFASQGAPAGLGEPQLELHTL  
DLGDYGAQGDCDPEAPMTEGTRCCRQEMYIDLQGMKWAENWVLEPPGFLAYECVGTCTCRQP  
PEALAFKWPFLGPRQCIASETDSLPMIVSIKEGGRTRPVVSLPNMRVQKCSASDGALV  
PRRLQP

>sp|000292|LFTY2\_HUMAN Left-right determination factor 2 OS=Homo sapiens GN=LEFTY2 PE=1 SV=2

MWPLWLCWALWVPLAGPGAALTEEQLLGSLLRQLQLSEVPVLDRADMEKLVIPAHVRAQ  
YVLLRRSHGDRSRGKRFSQSFRVAGRFLASEASTHLLVFGMEQRLPPNSELVQAVLRL  
FQEPVPKAALHRHGRLSPRSAQARVTVEWLRVRDDGSNRTSLIDSRLVSVHESGWKAFDV  
TEAVNFWQQLSRPRQPLLLQVSVQREHLGPLASGAHKLVRFASQGAPAGLGEPQLELHTL  
DLRDYGAQGDCDPEAPMTEGTRCCRQEMYIDLQGMKWAKNWVLEPPGFLAYECVGTCCQP  
PEALAFNWPFLGPRQCIASETASLPMIVSIKEGGRTRPVVSLPNMRVQKCSASDGALV  
PRRLQP

>sp|Q8N135|LGI4\_HUMAN Leucine-rich repeat LGI family member 4 OS=Homo sapiens GN=LGI4 PE=2 SV=1

MGGAGILLLLLAGAGVVAVRPPKKGKCLRCSCSKDSALCEGSPDLVFSPTLLSLSLV  
RTGVTQLKAGSFLRIPSLHLLFTSNSFSVIEDDAFAGLSHLQYLFIEDNEIGSISKNAL  
RGLRSLTHLSLANNHLETLPFLFRGLDTLTHVDLRGNPFQCDCRVLWLLQWMPTVNASV

GTGACAGPASLSHMQHLHLDPKTFKCRAIELSWFQTVGESALSVEPFSYQGEPHIVLAQP  
FAGRCLILSWDYSLQRFPEEELPAASVVSCKPLVLGPSLFLVLAARLWGGSQWLWARPSPG  
LRLAPTQTLAPRRLRPNDAELLWLEGQPCFVADASKAGSTTLCDRGPGFYPHQSLHA  
WHRDTDAEAELELDGRPHLLASASQRPVLFHWTGGRFERRTDIPEAEDVYATRHFQAGGD  
VFLCLTRYIGDSMVMRWGSMFRLLQQLP SRGAHVFPQLLIARDQLAILGSDFAFSQVLR  
LEPDKGLLEPLQELGPPALVAPRAFAHITMAGRRFLAACFKGPTQIYQHHEIDLSA

>sp|Q5TDP6|LGSN\_HUMAN Lengsin OS=Homo sapiens GN=LGSN PE=1 SV=1

MNNEEDLLQEDSTRDEGNETEANSMTLRRTRKKVTKPYVCSTEVGETDMSNSNDCMRDS  
SQILTPPQLSSRMKHIRQAMAKNRLQFVRFEATDLHGVSRSKTIPAHFFQEKVSHGVCMP  
RGYLEVIPNPKDNEMNIRATCFNSDIVLMPELSTFRVLPWADRTARVICDTFTVTGEPL  
LTSPRYIAKRQLSHLQASGFSLLSAFIYDFCIFGVPEILNSKIISFPALTFLNNHDQPFM  
QELVDGLYHTGANVESFSSSTRPGQMEISFLPEFGISSADNAFTLRTGVKEVARKYNYIA  
SFFIETGFCDSGILSHSLWDVDRKKNMFCSTSGTEQLTITGKKWLAGLLKHSAAALSCLMA  
PSVSCRKRYSKDRDKLKSVP TWTWGYNDNSCIFNIKCHGEKGTRIENKLGSATANPYLVL  
AATVAAGLDGLHSSNEVLAPDESTDFYQVEPSEIPLKLEDALVALEEDQCLRQALGETF  
IRYFVAMKKYELENEEIAAERNKFLEYFI

>sp|Q04760|LGUL\_HUMAN Lactoylglutathione lyase OS=Homo sapiens GN=GL01 PE=1 SV=4

MAEPQPPSGGLTDEAALSCSDADPSTKDFLLQQTMLRVKDPKSLDFYTRVLGMTLIQK  
CDFPIMKFSLYFLAYEDKNDIPKEKDEKIAWALSRKATLELTHNWGTEDDETQSYHNGNS  
DPRGFHIGIAVPDVYSACKRFEELGVKFVKKPDDGKMKGLAFIQDPDGYWIEILNPNKM  
ATLM

>sp|Q86WIO|LHPL1\_HUMAN Lipoma HMGIC fusion partner-like 1 protein OS=Homo sapiens  
GN=LHFPL1 PE=2 SV=1

MRSSLTMVGTWAFSLVTAVTSTSYFLPYWLFSGMQGKPVSFSTFRRCNYPVRGEGHS  
LIMVEECGRYASFNAIPSLAWQMCTVVTGAGCALLLLVALAAVLGCCMEELISRMMGRCM  
GAAQFVGGLLISSGALYPLGWSPEIMQTCGNVSNQFQLGTCRLGWAYYCAGGGAAAAM  
LICTWLSCFAGRNP KPVLVESIMRNTNSYAMELDHCLKP

>sp|Q8N6C8|LIRA3\_HUMAN Leukocyte immunoglobulin-like receptor subfamily A member 3  
OS=Homo sapiens GN=LILRA3 PE=1 SV=3

MTPILTVLICGLSLDPRTHVQAGPLPKPTLWAEPGSVITQGSPVTLRCQGSLETQEYHL  
YREKKTALWITRIPQELVKKGQFPILSITWEHAGRYCCYGSHTAGLSESSDPLELVVTG  
AYSKPTLSALPSPVVTSGGNVTIQCDSQVAFDGFILCKEGEDEHPQCLNSHSHARGSSRA  
IFSVPVSPSRRWSYRCYGYDSRAPYVWSLPSDLLGLLVPGVSKKPSLSVQPGPVVAPGE  
KLTFQCGSDAGYDRFVLYKEWGRDFLQRPGRQPQAGLSQANFTLGPVSRSYGGQYTCGA  
YNLSSEWSAPSDPLDILITGQIRARPFLSVRPGPTVASGENVTLLCQSQGGMHTFLTKE  
GAADSPLRLKSKRQSHKYQAEFPMSPV TSAHAGTYRCYGSLSNPNYLLTHPSDPLELVVS  
GAAETLSPPQNKSDSKAGE

>sp|Q8NHL6|LIRB1\_HUMAN Leukocyte immunoglobulin-like receptor subfamily B member 1  
OS=Homo sapiens GN=LILRB1 PE=1 SV=1

MTPILTVLICGLSLGPRTHVQAGHLPKPTLWAEPGSVITQGSPVTLRCQGGQETQEYRL  
YREKKTALWITRIPQELVKKGQFPISITWEHAGRYRCYYSAGTGRSESSDPLELVVTG  
AYIKPTLSAQSPVNVSGGNVILQCDSQVAFDGFSLCKEGEDEHPQCLNSQPHARGSSRA  
IFSVPVSPSRRWWYRCYAYDNSPYEWSLPSDLLELLVLGVSKKPSLSVQPGPIVAPEE  
TLTLQCGSDAGYNRFVLYKDGGERDFLQLAGAQPPQAGLSQANFTLGPVSRSYGGQYRCYGA

HNLSSEWSAPSDPLDILIAQQFYDRVSLSVQPGPTVASGENVTLLCQSQGWMQTFLLTKE  
GAADDPWRLRSTYQSQKYQAEFPMGPVTSAHAGTYRCYGSQSSKPYLLTHPSDPLELVVS  
GPSGGPSSPTTGPTSTSGPEDQPLTPTGSDPQSGLGRLGVVIGILVAVILLLLLLLLLLF  
LILRHRQGGKHWSTQKADFQHPAGAVGPEPTDRGLQWRSSPAADAQEENLYAAVKHTQ  
PEDGVEMDTRSPHDEDPQAVTYAEVKHSRPRREMASPPSPLSGEFLDTKDRQAEEDRQMD  
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>sp|Q8N485|LIX1\_HUMAN Protein limb expression 1 homolog OS=Homo sapiens GN=LIX1 PE=2 SV=2  
MDRTLESLRHIIAQVLPHRDPALVFKDLNVVSMQLQEFWESKQQKAAFPSEGVVVYESLP  
APGPPFVSVYVTLPGGSCFGNFQCCLSRAEARRDAAKVALINSLFNELPSRRITKEFIMES  
VQEAVASTSGTLDDADDPSTSVGAYHYMLESNMGKTMLEFQELMTIFQLLHWNGSLKALR  
ETKCSRQEVISYYSQYSLDEKMRSHMALDWIMKERDSPGIVSQELRMALRQLEEARKAGQ  
ELRFYKEKKEILSLALTQICSDPDTSSPSDDQLSLTALCGYH

>sp|Q9BU23|LMF2\_HUMAN Lipase maturation factor 2 OS=Homo sapiens GN=LMF2 PE=1 SV=2  
MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTLRPQKGKRWQQLWET  
PTLLWEAPRLGLDTAQGLELLSLLGALVALGALLSPLRHPVIYLLWAAVLSACQVGQV  
FLYFQWDSLLLETGFLAVLVAPLRPASHRKEAPQGRQAGALPHEDLPFWLVRWLLFRLMF  
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PLFFAPIRRLRLAAFYSQVLLQVLIITGNYNFFNLMTLVLTALLDDQHAAEPGHGSR  
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LKTLTLPTVWLGVASLVWELLSALWRWTQVRGWLRLKLSAVVQLSLVGTATVALFLISLVP  
YSYVEPGTHGRLWTGAHRLFGAVEHLQLANSYGLFRMTGLGGRPEVVLEGSYDGHHWTE  
IEFMYKPGNLSRPPPVVPHQPRLDWQMWFAALGPHTHSPWFTSLVLRLLQGKEPVIRLV  
QSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWRRQWVEEFFPSVSLGDPTLETLLR  
QFGLQEKSPPRTRSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCS  
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>sp|Q8TAP4|LMO3\_HUMAN LIM domain only protein 3 OS=Homo sapiens GN=LMO3 PE=1 SV=1  
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ILCRRDYLRLFGVTGNCAACSKLIPAFEMVMRAKDENVYHLDCFACQLCNQRFVGDKFFL  
KNNMILCQTDYEEGLMKEGYAPQVR

>sp|P29536|LMO1\_HUMAN Leiomodlin-1 OS=Homo sapiens GN=LMO1 PE=1 SV=3  
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GVYNREAMLNFCETKTKMLQREMSMDESKQVETKTDKNGEERGRDASKKALGPRRDS  
LGKEPKRGGLKKSFSRDRDEAGKSGEKPKEEKIIRGIDKGRVRAAVDKKEAGKDGRGEE  
RAVATKKEEEKKGSRRNTGLSRDKDKKREEMKEVAKKEDDEKVKGERRNTDTRKEGKMK  
RAGGNTDMKKEDEKVKRGTGNTDTKKDDEKVKNEPLHEKEAKDDSKTKTPEKQTPSGPT  
KPSEGPAKVEEEAAPSIFDEPLERVKNNDPEMTEVNVNNSDCITNEILVRFTAELEFNTV  
VKLFALANTRADDHVAFAIAIMLKANKTITSLNLDNHNITGKGILAIFRALLQNNLTTEL  
RFHNQRHICGGKTEMEIAKLLKENTTLLKLGYPFELAGPRMTVTNLLSRNMDKQRQKRLQ  
EQRQAQEAKEKKDLLEVPKAGAVAKGSPKPSQPSPKPSPKNSPKKGGAPAAPPPPPP  
LAPPLIMENLKNLSLSPATQRKMGDKVLPAAQEKNSRDQLLAAIRSSNLKQLKKVEVPKLLQ

>sp|Q8TE12|LMX1A\_HUMAN LIM homeobox transcription factor 1-alpha OS=Homo sapiens GN=LMX1A  
PE=1 SV=1  
MLDGLKMEENFQSAIDTSASFSSLLGRAVSPKSVCEGCQRVILDRFLLRLNDSFWHEQCV  
QCASCKEPLETTCFYRDKKLYCKYDYEKLFVAVKCGGCFEAIAPNEFVMRAQKSVYHLSCF

CCVCERQLQKGDEFVLKEGQLLCKGDYEKERELLSLVSPAASDSGKSDDEESLCKSAHG  
AGKGTAEEGKDHKRPKRPTILTTQQRRAFKASFEVSSKPCRKVRETLAAETGLSVRVVQ  
VWFQNRQRAKMKKLARRRQQQQQDQNTQRLSSAQTNGGGSAGMEGIMNPYALPTPQQLL  
AIEQSVYSSDPFRQGLTPPQMPPGDHMPYGAEP LFHDLDSDDTSLSNLGDCLATSEAGP  
LQSRVGNPIDHLYSMQNSYFTS

>sp|Q8N448|LNX2\_HUMAN Ligand of Numb protein X 2 OS=Homo sapiens GN=LNX2 PE=1 SV=1

MGTTSDDEMVSVEQTSSSSLNPLCFECGQHWHTRENHLYNQNEVDDDLVCHICLQPLLQP  
LDTPCGHTFCYKCLRNFLQEKDFCPLDRKRLHFKLCKKSSILVHKLLDKLLVLCPFSSVC  
KDVMMQRCDLEAHLKNRCPGASHRRVALERRKTSRTQAEIENENGPTLLDPAGTLSPEADC  
LGTGAVPVERHLTSASLSTWSEEPGLDNPAFEESAGADTTQQPLSLPEGEITTTIEIHRSN  
PYIQLGISIVGGNETPLINIVIQEVYRDGVIARDGRLLAGDQILQVNNYNISNVSHNYAR  
AVLSQPCNTLHLTVLRERRFGNRAHNHSDSNSPREEIFQVALHKRDSGEQLGIKLVRRTD  
EPGVFILDLEGLLAAQDGRLLSSNDRVLAINGHDLKYGTPELAAQIIQASGERVNLTIAR  
PGKPQPGNTIREAGNHSSSSQHHTPPPYSRPSSHKDLTQCVTCQEKHITVKKEPHESLG  
MTVAGGRGSKSGELPIFVTSVPPHGLARDGRIKRGDVLNNGIDLNLHSEAVAMLK  
ASAASPAVALKALEVQIVEEATQNAEEQPSTFSENEYDASWSPSWMWLGLPSTLHSCHD  
IVLRRSYLGSWGFISVGGYEENHTNQPFIFIKTIVLGTTPAYYDGRLLKCGDMIVAVNGLSTV  
GMSHSALVPMLKEQRNKVTLTVICWPGSLV

>sp|Q92633|LPAR1\_HUMAN Lysophosphatidic acid receptor 1 OS=Homo sapiens GN=LPAR1 PE=1  
SV=3

MAAISTSIPVISQPQTAMNEPQCFYNESIAFFYNRSGKHLATEWNTVSKLVMGLGITVC  
IFIMLANLLVMVAIYVNRFRHFPIYYLMANLAAADFFAGLAYFYLMFNTGPNTRRLTVST  
WLLRQGLIDTSLTASVANLLAIAIERHITVFRMQLHTRMSNRRVVVIVVIWTMAIVMGA  
IPSVGWNCICDIENCSNMAPLYSDSYLVFWAIFNLVTFVVMVLYAHIFGYVRQRTMRMS  
RHSSGPRNRDMMSLKTVIVLGAFIICWTPGLVLLLLDVCCPQCDVLAYEKFFLLLA  
EFNSAMNPIIYSYRDKEMSATFRQILCCQRSENPTGPTGSDRSASSLNHTILAGVHSND  
HSV

>sp|P43657|LPAR6\_HUMAN Lysophosphatidic acid receptor 6 OS=Homo sapiens GN=LPAR6 PE=1  
SV=3

MVSVNSSHCFYNSFKYTLYGCMFSMVFLGLISNCVAIYIFICVLKVRNETTTYMINLA  
MSDLLFVFTLPFRIFYFTTRNWPFGDLLCKISVMLFYTNMYGSILFLTCISVDRFLAIVY  
PFKSKTLRTRKNAKIVCTGVWLVIGGSAPAVFVQSTHSQGNNASEACFENFPEATWKTY  
LSRIVIFIEIVGFFIPLILNVTCSMVLKTLTKPVTLSRSKINKTKVLKMFVHLIIFCF  
CFVPYNINLILYSLVRTQTFVNCSVVAAVRTMYPITLCIAVSNCCFDPIVYYFTSDTIQN  
SIKMKNWSVRRSDFRFSEVHGAENFIQHNLQTLKSKIFDNESAA

>sp|P09848|LPH\_HUMAN Lactase-phlorizin hydrolase OS=Homo sapiens GN=LCT PE=1 SV=3

MELSWHVVFIALLSFSCWGSWESDRNFISTAGPLTNDLLHNLGSLLDQSSNFVAGDKD  
MYVCHQPLPTFLPEYFSSLHASQITHYKVFLSWAQLLPAGSTQNPDEKTVQCYRRLKAL  
KTARLQPMVILHHQTLASTLRREAFADLFADYATFAFHSFGDLVGWFTFSDLLEEVK  
ELPHQESRASQLQTLSDAHRKAYEYHESYAFQGGKLSVVLRAEDIPELLLEPPISALAQ  
DTVDFLSLDLSYECQNEASLRQKLSKLQTIIEPKVKVIFNLKLPDCPSTMKNPASLLFSL  
FEAINKDQVLTIGFDINEFLSCSSSSKSMCSLTGSLALQPDQQQDHETDSSPASAYQ  
RIWEAFANQSRAERDAFLQDTFPEGFLWGASTGAFNVEGGWAEGGRGVSIWDPRRPLNTT  
EGQATLEVASDSYHKVASDVALLCGLRAQVYKFSISWSRIFPMHGSSPSLPGVAYYNKL



IDRLQDAGIEPMATLFHWDLPQALQDHGGWQNESVVD AFLDYAAFCFSTFGDRVKLWVTF  
HEPVWMSYAGYGTGQHPPGISDPGVASFV AHLVLKAHARTWHHYN SHHRPQQQGHVGIV  
LNSDWAEP LSPERPEDLRASERFLHFM LGWF AHPVFVDGDYPATLR TQIQMNRQC SHPV  
AQLPEFTEAEKQLLKGSADFLGLSHYTSRLISNAPQNTCIPSYDTIGGFSQHVNHW PQT  
SSSWIRVVPWGIRRLQFVSLEYTRGKVPIYLAGNGMPIGESENLFDDSLRVDYFNQYIN  
EVLKAIKEDSVDVRSYIARSLIDGFEGPSGYSQRFG LHHVNFSDSSKSRTPRKSAYFFTS  
IIEKN GFLTKGAKRLLPNTVNLPSKVRAFTFPSEVPSKAKVVWEKFSSQPKFERDLFYH  
GTFRDDFLWGVSSSAYQIEGAWDADGKGPSIWDNFTHTPGSNVKDNATGDIACDSYHQLD  
ADLNLRLALKVKAYRFSISWSRIFPTGRNSSINSHGVDYYNRLINGLVASNIFPMVTLFH  
WDLPQALQDIGGWENPALIDLFD SYADFCFQTFGDRVKFWMTFNEP MYLAWLG YGSGEFP  
PGVKDPGWAPYRIAHAVIKAHARVYHTYDEKYRQEKGVISLSLSTHWAEPKSPGVPRDV  
EAADRLMQFSLGWFAHPIFRNGDYPDTMKWKVGNRSELQHLATSRLPSFTEEEKR FIRAT  
ADVFC LNTYYSRIVQHKT PRLNPPSYEDDQEMAEEDPSWPSTAMNRAAPWGTRRLNWI  
KEEYGDIP IYITENG VGLTNPNTEDTDRIFYHKTYINEALKAYRLDGLRGYVAWSLMD  
NFEWLNGYTVKFGLYHVD FNNTNRPTARASARYYTEVITNNGMPLAREDEFLYGRFPEG  
FIWSAASAAYQIEGAWRADGKGLSIWDTFSHTPLRVENDAIGDVACDSYHKIAEDLVTLQ  
NLGVSHYRFSISWSRILPDGTRYINEAGLNYVRLIDTLAASIQQPVTIYHWDLPQTL  
QDVGGWENETIVQRKEYADVL FQRLGDKVKFWITLNEPFVIAYQGYGYGTAA PGVSNRP  
GTAPYIVGHNL IKAHA EAWHL YNDVYRASQGGVISITISSDWAEP RDP SNQEDVEAARRY  
VQFMGGWFAHPIFKNGDYNEVMKTRIRDRSLAAGLNKSRLPEFTESEKRRINGTYDFFGF  
NHYTTVLAYNLNYATAISSFDADRGVASIADRSWPDSGSFWLKMT PFGFRILNLWKEEY  
NDPPIYVTENGVSQREETDLNDTARIYYLR TYINEALKAVQDKVDLRGYTVWSAMDNFEW  
ATGFSERFGLHFVNYS DPSP LPRIPKASAKFYASVVR CNGFDPATGPHACLHQPDAGPTI  
SPVRQEEVQFLGLMLGTTEAQTALYVLFSLVLLGVCGLAFLSYKYCKRSKQGKTQRSQQE  
LSPVSSF

>sp|Q9BQK8|LPIN3\_HUMAN Phosphatidate phosphatase LPIN3 OS=Homo sapiens GN=LPIN3 PE=1 SV=3

MNYVGQLAETVFGTVKELYRGLNPATLSGGIDVLVVKQVDGSFRCSPFHVRFGKLGVLRS  
REKVVDIELNGEPVDLHMKLGDSGEAFFVQELESDDHVPGLCTSPIPWGGLSGFPSDS  
QLGTASEPEGLVMAGTASTGRRKRRRRRKPQKEDAVATDSSPEELEAGAESELSLPEKL  
RPEPPGVQLEEKSSLQPKDIYPYSDGEWPPQASLSAGELTSPKSDSELEVRTPEPSPLRA  
ESHMQWAWGRLPKVARAERPESV VLEGRAGATSPPRGGPSTPSTSVAGGV DPLGLPIQQ  
TEAGADLPDTEPTLVGPPLHTPETEESKTQSSGDMGLPPASKSWSWATLEV PVPTGQP  
ERVSRGKGSPKRSQHLGPSDIYDDLPSLDSENAALYFPQSDSGLGARRWSEPSSQKSLR  
DPNPEHEPEPTLDTVD TIALSLCGGLADSRDISLEKFNQHSVSYQDLTKNPGLDDPNLV  
VKINGKHYNWAVAAPMILSLQAFQKNLPKSTMDKLEREKMPRKGRWWFSWRRRDLAE  
RSAQKEKTAAKEQQGEKTEVLSSDDADPSVILEIPSLPPSTPPSTPTYKKSLRLSSDQ  
IRRLNLQEGANDVVSVT TQYQGT CRCKAT IYLWKWDDKVVISDIDGTITKSDALGHILP  
QLGKDWITHQGITSLYHKIQLNGYKFLYCSARAIGMADLTGKYLQWVSEGGCSLPGKPILL  
SPSSLFSALHREVIEKKPEVFKVACLSDIQQFLPHGQPFYAAFGNRPNDVFAYRQVGLP  
ESRIFTVNPRGELIQELIKNHKSTYERLGEVVELLFPPVARGPSTD LANPEYSNFCYWRE  
PLPAVDLDTLD

>sp|P60372|KR104\_HUMAN Keratin-associated protein 10-4 OS=Homo sapiens GN=KRTAP10-4 PE=1 SV=1

MSVCSSDLSYSSRVCLPGSCDSCSDSWQVDDCPESCCEPPCCAPSCCAPCLSLVCTPV

SRVSSPCPVTCEPSPCQSGCTSSCTPSCCQSSCQLACASSPCQQACCVPVCCKTVCCK  
KPVCCVPVCCGDSSCCQSSCQSACCTSSPCQQACCVPICCKPVCSGISSCCQSSCVS  
CVSSPCQAVCEPSPCQSGCISSCTPSCCQSSCQPACCTSSSCQACCVPVCCKTVCCK  
PVCSESSSSCCQSSCQPACCTSSPCQQACCVPVCCKPVCKPVGSVPICSGASSLCCQQ  
SSCQPACCTSSQSQQGCCVPVCCKPVSCVPVCSGASSCCQSSCQPACCTTSCCRPSSS  
VSLLCRPVCRPACCVVPVSCCAPTSSCQPSCCRPASCVSLL

>sp|P30613|KPYR\_HUMAN Pyruvate kinase PKLR OS=Homo sapiens GN=PKLR PE=1 SV=2

MSIQENISSQLRWSVSKSQRDLAKSILIGAPGGPAGYLRRASVAQLTQELGTAFQQQQ  
LPAAMADTFLEHLCLLDIDSEPVAARSTSIATIGPASRSVERLKEMIKAGMNIARLNFS  
HGSHEYHAESIANVREAVESFAGSPLSYRPVAIALDTKGPEIRTGILQGGPESEVELVKG  
SQVLVTVDPAFRTRGNANTVWVDYPNIVRVVPVGGRIYIDDLISLVVQKIGPEGLVTQV  
ENGGVLGSRKGVNLPGAQVDLPGLSEQDVRDLRFGVEHGVDIVFASFVRKASDVAAVRAA  
LGPEGHGIKIISKIENHEGVKRFDEILEVSDGIMVARGDLGIEIPAENVFLAQKMMIGRC  
NLAGKPVVCATQMLESMITKPRPTRAETSDVANAVLDGADCIMLSGETAKGNFPVEAVKM  
QHAIAREAEAAVYHRQLFEELRRAAPLSRDPTEVTAIGAVEAAFKCAAATIVLTTGRS  
AQLLSRYRPRAAVIAVTRSAQAARQVHLRCRGVFPLLYREPPEAIWADDVDRRVQFGIESG  
KLRGFLRVGDLVIVVTGWRPGSGYTNIMRVLSIS

>sp|Q7Z4W3|KR193\_HUMAN Keratin-associated protein 19-3 OS=Homo sapiens GN=KRTAP19-3 PE=3  
SV=1

MSYYSYGGGLGYGCGGFGGLGYGYGCGGSGFRRLGSGGYGGYGYGSGFGGYGYGSGFG  
GYGYGCYRPSYGGYGFSGFY

>sp|Q3LI61|KR202\_HUMAN Keratin-associated protein 20-2 OS=Homo sapiens GN=KRTAP20-2 PE=3  
SV=1

MCYYSNYGGRLRYGYGLGGGYGCGGYGHGYGGLGCGYGRGYGGYGYGCCRPSCYGRYW  
SCGFY

>sp|Q701N2|KRA55\_HUMAN Keratin-associated protein 5-5 OS=Homo sapiens GN=KRTAP5-5 PE=2  
SV=2

MGCCGCSGGCGSGCGGRGSGCGGCGSGCGGCGSGCGGCGSGCGGCGGCGSGCAGCGGCGS  
GCCVPVCCCKPMCCCVACSCSSCGKGGCGSCGSKRGCVSCGVSKGACGSCGSKGGCG  
SCGSKGGCGSCGSKGGCGSCGSKGGCGSYGCSQSSCKPCCSSGCGSSCCQSSCK  
PYCCQSSCKPYCCQSSCKKPCSCFSGCGSSCCQSSCYKPCCCQSSCCVPVCCQCKI

>sp|075690|KRA58\_HUMAN Keratin-associated protein 5-8 OS=Homo sapiens GN=KRTAP5-8 PE=2  
SV=2

MGCCGCSGGCGSGCGGCGSGCGGCGSSCCVPICCKPVCCVPACSCSSCGSGGSKGGR  
GSCGSKGDCGSGGSKGGCGSCGSCQSCYKPCCCSSGCGSSCCQSSCKPCCSQSSCC  
KPCSCSSGCGSSCCQSSCKPCCSQSSCKPCCSSGCGSSCCQSSCKPCCSQSSCCVP  
ICCQCKI

>sp|P26371|KRA59\_HUMAN Keratin-associated protein 5-9 OS=Homo sapiens GN=KRTAP5-9 PE=1  
SV=1

MGCCGCSGGCGSSCGGCDSSCGSGSGCRGCGPSCCAPVYCKPVCCVPACSCSSCGKR  
GCGSGGSKGGCGSGCSQCSCCKPCCSSGCGSSCCQSCCKPYCSQCSCCKPCCSSSG  
RGSSCCQSSCKPCCSSSGCGSSCCQSSCKPCCSQSRCCVPVCYQCKI

>sp|Q13601|KRR1\_HUMAN KRR1 small subunit processome component homolog OS=Homo sapiens  
GN=KRR1 PE=1 SV=4

MASPSLERPEKGAGKSEFRNQKPKPENQDESELLTVPDGWKEPAFSKEDNPRGLLEESSF  
ATLFPKYREAYLKECWPLVQKALNEHHVNATLDLIEGSMVTCTTKKTFDPYIIIRARDLI  
KLLARSVSFEQAVRILQDDVACDIKIGSLVRNKERFVKRRQRLIGPKGSTLKALELLTN  
CYIMVQGNTVSAIGPFSGLKEVRKVVLDTMKNIHPIYNIKSLMIKRELAKDSSELRSQSWE  
RFLPQFKHKNVNKRKEPKKKTVKKEYTPFPFPQPESQIDKELASGEYFLKANQKKRQKME  
AIKAKQAEAISKRQEERNKAFIPPEKPIVKPKEASTETKIDVASIKEKVKKAKNKKLGA  
LTAEELALKMEADEKKKKKKK

>sp|Q92764|KRT35\_HUMAN Keratin, type I cuticular Ha5 OS=Homo sapiens GN=KRT35 PE=2 SV=5

MASKCLKAGFSSGSLKSPGGASGGSTRVSAMYSSSCKLPSLSPVARSFSACSVGLGRSS  
YRATSCLPALCLPAGGFATSYSGGGWFGEGILTGNEKETMQSLNDRLAGYLEKVRQLEQ  
ENASLESRIREWCEQVQPYMCPDYQSYFRTIEELQKKTLCSCAENARLVVEIDNAKLAAD  
DFRTKYETEVSLRQLVESDINGLRRILDDLTLCKSDLEAQVESLKEELLCLKKNHEEEVN  
SLRCQLGDRLNVEVDAAPPVDLNRVLEEMRCQYETLVENNRDAEDWLDTQSEELNQQVV  
SSSEQLQSCQAEIIELRRTVNALEIELQAQHSMRDALESTLAETEARYSQLAQMCMIT  
NVEAQLAEIRADLERQNQEYQVLLDVRARLECEINTYRGLLESEDSKLPCNPCAPDYSPS  
KSLCPCLPAASCGPSAARTNCSRPICVPCPGGRF

>sp|076013|KRT36\_HUMAN Keratin, type I cuticular Ha6 OS=Homo sapiens GN=KRT36 PE=2 SV=1

MATQTCTPTFSTGSIKGLCGTAGGISRVSSIRSVGSCRVP SLAGAAGYISSARSGLSGLG  
SCLPGSYLSSECHTSGFVGSGGWFCGSGFNGSEKETMQFLNDRLANYLEKVRQLERENAE  
LESRIQEWYEFQIPYICPDYQSYFKTIEDFQQKILLTKSENARLVLQIDNAKLAADDFRT  
KYETELSLRQLVEADINGLRRILDELTLCKADLEAQVESLKEELMCLKKNHEEEVSVLRC  
QLGDRLNVEVDAAPPVDLNLKILEDMRCQYEALVENNRDVEAWFNTQTEELNQQVVSSE  
QLQCCQTEIIELRRTVNALEIELQAQHSMRNSLESTLAETEARYSQLAQMCLISNVEA  
QLSEIRCDLERQNQEYQVLLDVKARLEGEIATYRHLLEGEDCKLPPQPCATAACKPVIRVP  
SVPPVPCVPSVPCTPAPQVGTQIRTITEEIRDGKVISSREHVQSRPL

>sp|Q8N1A0|KT222\_HUMAN Keratin-like protein KRT222 OS=Homo sapiens GN=KRT222 PE=2 SV=1

MELSQLLNEIRANYEKILTRNQIETVLSTRIQLEEDISKMDKDEEALKAAQAEKKEARR  
QWHHLQVEIESLHAVERGLENSLHASEQHYQMQLQDLETVIEGLEKELQEVRRGIEKQLQ  
EHMLLNTKMRLEQEIATYRHLLEKEEIRYYGCTGGKKDKKPTTSRVGFVLPSAINEI  
SFTTKVPQKYENENVETVTKQAILNGSIVKESTEAHGTIQTEKVDEVIKEWEGSFFKDNP  
RLRKSVSLRFDLHLAATDEGCLETKQDNLDPDIEVRLIMRRSCSIPSIKPPSTAN

>sp|Q6UWWO|LCN15\_HUMAN Lipocalin-15 OS=Homo sapiens GN=LCN15 PE=1 SV=1

MMSFLLGAILTLLWAPTAQAEVLLQPDFNAEKFSGLWYVVSMASDCRVFLGKKDHLSMST  
RAIRPTEEGGLHVHMEFFGADGCNQVDAEYLKVGSEGHFRVPALGYLDVRIVDTDYSSFA  
VLYIYKELEGALSTMVQLYSRTQDVSPQALKSFQDFYPTLGLPKDMMVMLPQSDACNPES  
KEAP

>sp|O43679|LDB2\_HUMAN LIM domain-binding protein 2 OS=Homo sapiens GN=LDB2 PE=1 SV=1

MSSTPHDPFYSSPFGPFYRRHTPYMVQPEYRIYEMNKRLQSRTESDNLWWDAFATEFFE  
DDATLTLSCLEDGPKRYTIGRTLIPRYFSTVFEGGVTLDYYILKHSKESYHNSSITVDC  
DQCTMVTQHKGPMFTKVCTEGRILILEFTFDDLRIKTWHFTIRQYRELVPRSILAMHAQD  
PQVLDQLSKNITRMGLTNFTLNYLRCLVILEPMQELMSRHKTYNLSPRDCLKTCLFQKWQ  
RMVAPPAEPTRQPTTKRRKRKNSTSSTSNSSAGNNANSTGSKKTTAANLSLSSQVPDVM  
VVGPTLMGGEFGDEDERLITRLENTQYDAANGMDDEEDFNNSPALGNNSPWNSKPPATQ  
ETKSENPPPPQASQ

>sp|P07864|LDHC\_HUMAN L-lactate dehydrogenase C chain OS=Homo sapiens GN=LDHC PE=1 SV=4  
MSTVKEQLIEKLIEDDENSQCKITIVGTGAVGMACAISILLKDLADELALVDVALDKLKG  
EMMDLQHGSFFSTSKITSGKDYSVSANSRIVIVTAGARQQEGETRLALVQRNVAIMKSI  
IPAIVHYSPOCKILVSNPVDILTYIVWKISGLPVTRVIGSGCNLDSARFRLIGEKLGV  
HPTSCHGWIIGEHDSSVPLWSGVNVAGVALKTLDPKLGTDSKEHWKNIHKQVIQSAYE  
IIKLKGYTSAIGLSVMDLVGSILKNLRRVHPVSTMVKGLYGIKEELFLSIPCVLGRNGV  
SDVVKINLNSEEEALFKKSAETLWNIQKDLIF

>sp|P01130|LDLR\_HUMAN Low-density lipoprotein receptor OS=Homo sapiens GN=LDLR PE=1 SV=1  
MGPWGKLRWTVALLAAAGTAVGDR CERNEFQCQDGKCSYKWCDSAECDGSDSEQ  
ETCLSVTCKSGDFSCGGRVNR CIPQFWRCGGQVDCDNGSDEQGCPPKTC SQDEF RCHDGK  
CISRQFVCDSDRCLDGSDEASCPVLTCPASFQCNSSTCIPQLWACDNDPCEDGSDEW  
PQRCRGLYVFGDSSPCSAFEFHCLSGECIHSSWRCDGGPDCKDKSDEENCAVATCRPDE  
FQCSGNCIHGSRQCDREYDCKDMSDEVGCNVNLTCEGPNKFKCHSGECITLDKVCNMAR  
DCRDWSDPEIKECGTNECLDNNGGCSHVCNDLKIGYECLCPDGFQLVAQRRCEDIDECQD  
PDTCSQLCVNLEGGYKCQCEEGFQLDPHTKACKAVGSIAYLFFTNRHEVRKMTLDRSEYT  
SLIPNLRNVVALDTEVASNRIYWSLSQRMICSTQLDRAHGVSSYDTVISRDIQAPDGLA  
VDWIHSNIYWTDSVLGTVSVADTKGVKRKTLFRENGSKPRAIVDPVHGFMWYTDWGTPA  
KIKKGGNLNGVDIYSLVTENIQWPNGITLDLLSGRLYWVDSKLHSSIDVNGGNRKTILE  
DEKRLAHPFSLAVFEDKVFWDIINEAIFSANRLTGSDVNLLAENLLSPEDMVLFHNL TQ  
PRGVNWCERTTSLNNGCQYLCLPAPQINPHSPKFTACPDGMLLARDMRSCLTEAEAAVA  
TQETSTVRLKVSSTAVRTQHTTTRPVPDTSRLPGATPGLTTVEIVTMSHQALGDVAGRGN  
EKKPSSVRALSIVLPVLLVFLCLGVFLLWKNWRLKNINSINFDPVYQKTTEDEVHICH  
NQDGYSPSRQMVSLEDDVA

>sp|P17931|LEG3\_HUMAN Galectin-3 OS=Homo sapiens GN=LGALS3 PE=1 SV=5  
MADNFSLHDALSGSGNPNPQGWPAGWGNQPAGAGGYPGASYPGAYPGQAPP GAYPGQAPP  
GAYPGAPGAYPGAPAGVYPPSGPGAYPSSGQPSATGAYPATGPYGAPAGPLIVPYNL  
PLPGGVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNENRRRIVCNTKLDNN  
WGREERQSVFPFESGKPFKIQVLVEPDHFKVAVNDAHLLQYNHRVKKLNEISKLGISGDI  
DLTSASYTMI

>sp|P05162|LEG2\_HUMAN Galectin-2 OS=Homo sapiens GN=LGALS2 PE=1 SV=3  
MTGELEVKNMDMPKGSTLKITGSIADGTDGFVINLGQGTDKLNLHFNPRFSESTIVCNL  
DGSNWGQEQR EDHLCFSPGSEVKFTVTFESDKFKVKLPDGHELTFPNRLGHSHLSYLSVR  
GGFNMSSFKLKE

>sp|Q8NC56|LEMD2\_HUMAN LEM domain-containing protein 2 OS=Homo sapiens GN=LEMD2 PE=1 SV=1  
MAGLSDLELRRELQALGFQPGPITDTRDVYRNKLRRRLRGEARLRDEERLREEARPRGEE  
RLREEARLREDAPLRARPAASPRAEPWLSQPASGSAYATPGAYGDIRPSAASWVGSRL  
AYPARPAQLRRRASVRGSSEEDEDARTPD RATQGPGLAARRWWAASPAPARLPSSLLGPD  
PRPGLRATRAGPAGAARARPEVGRRLERWLSRLLLWASLGLLLVFLGILWVKMGKPSAPQ  
EAEDNMKLLPVDCERKTDEFCQAKQKAALLELLHELYNFLAIQAGNFECGNPENLKS KCI  
PVMEAQEYIANVTSSSSAKFEAALTWILSSNKDVG IWLKGEDQSELVTTVDKVVCLSAH  
PRMGVGCRLSRALLTAVTNVLIFFWCLAFLWGLLILLKYRWRKLEEEEQAMYEMVKKIID  
VVQDHYVDWEQDMERYPYVGILHVRDSLIPPQSRRRMKRVWDRAVEFLASNESRIQTESH  
RVAGEDMLVRRWTKPSSFSDSER

>sp|Q2VYF4|LETM2\_HUMAN LETM1 domain-containing protein LETM2, mitochondrial OS=Homo sapiens GN=LETM2 PE=2 SV=2

MAFYSYNSVLAIAIRTRFSPSHFVHPTCSSYSPSCAFLHLPDShLNKTCMKNYESKKYSDPS  
QPGNTVLHPGTRLIQKLHTSTCWLQEVPGKPQLEQATKHPQVTSPQATKETGMEIKEGKQ  
SYRQKIMDELKYYYNGFYLLWIDAKVAARMVWRLHGGVLTTRRRRRLLRTCVDFFRLVP  
FMVFLIVPFMEFLLPVFLKLFPEMLPSTFESESKKEEKQKKKMAVKLELAKFLQETMTEM  
ARRNRAKMGDASTQLSSYVKQVQTGHKPSTKEIVRFSKLFEDQLALEHLDRPQLVALCKL  
LELQTFGTNNLLRFQLLMKLKSIAKADDEIIAKEGVLTALSVSELQAACRARGMRSGLTEE  
QLRQQLTEWQDLHLKENVPSSLILLSRTFYLLIDVKPKPIEIPLSGEAPKTDILVELPTFT  
ESKENMVDLAPQLKGTKDEDFIQPPVTSSPITPSTPISLPKGPITSSEEPTLQAKSQMT  
AQNSKASSKGA

>sp|P16150|LEUK\_HUMAN Leukosialin OS=Homo sapiens GN=SPN PE=1 SV=1

MATLLLLLGLVLVSPDALGSTTAVQTPTSGETPLVSTSEPLSSKMYTTSITSDPKADSTGD  
QTSALPPSTSINEGSPLWTSIGASTGSPLPEPTYQEVSIKMSSVPQETPHATSHPAVPI  
TANSLGSHTVTGGTITTNPETSSRTSGAPVTTAASSLETSGTSGPPLTMATVSLETSK  
GTSGPPVTMATDSLETSTGTTGPPVTMTTGSLEPSSGASGPQVSSVKLSTMMSPTTSTNA  
STVPPFRNPDENSRGMLPVAVLVALLAVIVLVALLLWRRRQKRRTGALVLSRGGRNGVV  
DAWAGPAQVPEEGAVTVTVGGSGDGKSGFPDGEGRSRRPTLTTFGRKRKSRQGLAMEE  
LKSGSGPSLKGEELVASEDGAVDAPAPDEPEGGGAAP

>sp|P48742|LHX1\_HUMAN LIM/homeobox protein Lhx1 OS=Homo sapiens GN=LHX1 PE=2 SV=2

MVHCAGCKRPILDRFLNLDRAWHVKVCQCECKCNLTEKFSREGKLYCKNDFFRCFG  
TKCAGCAQGISPDLVRRARSKVFHLNCFCTMCMCNQLSTGEELYIIDENKFVCKEDYLS  
NSSVAKENSLHSATTGSDPSLSPDSQDPSQDDAKDSEANVSDKEAGSNENDDQNLGAKR  
RGPRTTIKAKQLETILKAAFAATPKPTRHIREQLAQETGLNMRVIQVWFQNRRSKERRMKQ  
LSALGARRHAFFRSPRRMRPLVDRLEPGELIPNGPFSFYGDYQSEYYGPGGNYDFFPQGP  
PSSQAQTPVDLPFVPSSGSGTPLGGLEHPLPGHHPSSEAQRFTDILAHPPGDSPSPEPS  
LPGPLHMSAEVFGPSPPFSSLSVNGGASYGNHLSHPPEMNEAAVW

>sp|075334|LIPA2\_HUMAN Liprin-alpha-2 OS=Homo sapiens GN=PPFIA2 PE=1 SV=2

MMCEVMPTINEDTPMSQRGSQSSGSDSDSHFEQLMVNMLDERDRLDRTLRETQESLSLAQ  
QRLQDVIYDRDSLQRQLNSALPQDIESLTGGLAGSKGADPPEFAALTKELNACREQLLEK  
EEEISELKAERNNTLLLEHLECLVSRHERSLRMTVVKRQAQSPSGVSSEVEVLKALKSL  
FEHHKALDEKVRERLRVSLERVSAAEEELAAANQEIVALREQNVHIQRKMASSEGSTESE  
HLEGMEPGQKVHEKRLSNGSIDSTDETSQIVELQELLEKQNYEMAQMKERLAALSSRVGE  
VEQEAETARKDLIKTEEMNTKYQRDIREMAQKEDMEERITTLKRYLSAQRESTSIHDM  
NDKLENELANKEAILRQMEEKNRQLQERLELAEQKLQQTMRKAETLPEVEAELAQRIAAL  
TKAEERHGNIEERMRLHLEGQLEEKQELQRRARQREKMNEEHNKRLSDTVDRLLTESNERL  
QLHLKERMAALEEKNVLIQESETFKNLEESLHDKERLAEEIEKLRSELDQLKMRTGSLI  
EPTIPRTHLDTSAELRYSVGSLVDSQSDYRTTKVIRRRGRMGVRRDEPKVKS LGDHEW  
NRTQQIGVLSSHPFESDTEMSDIDDDRETIFSSMDLLSPSGHSDAQTAMMLQEQLDAI  
NKEIRLIQEEKESTELRAEEIENRVASVSLEGLNLRVHPGTSITASVTASSLASSPPS  
GHSTPKLTPRSPAREMDRMGVMTLPSDLRKHRRKIAVVEEDGREDKATIKCETSPPTPR  
ALRMTHTLPSYHNDARSSLVSLEPESLGLGSANSSQDSLHKAPKKKGIKSSIGRLF GK  
KEKARLGQLRGFMETAAAAQESLGLGKLTQAEKDRRLKKKHELLEARRKGLPFAQWDG  
PTVVAWLELWLGMPAWYVAACRANVKSGAIMSALSDTEIQREIGISNPLHRLKLRLAIQE

MVSLTSPSAPPTSRTPSGNVVWTHEEMENLAAPAKTKESEEGSWAQCVPFLQTLAYGDMN  
HEWIGNEWLPSLGLPQYRSYFMECLVDARMLDHLTKKDLRVHLKMVDSFHRTSLQYGIMC  
LKRLNYDRKELERRREASQHEIKDVLVWSNDRVIRWIQAIGLREYANNILESGVHGSLIA  
LDENFDYSSLALLLQIPTQNTQARQILEREYNLLALGTERRLDESDDKNFRRGSTWRRQ  
FPPREHVHGISMMPGSSETLPAGFRLTTTSGQSRKMTTDVASSRLQRLDNSTVRTYSC

>sp|Q86W92|LIPB1\_HUMAN Liprin-beta-1 OS=Homo sapiens GN=PPFIBP1 PE=1 SV=2

MMSDASDMLAAALEQMDGIIAGSKALEYSNGIFDCQSPTSPFMGSLRALHLVEDLRGLLE  
MMETDEKEGLRCQIPDSTAETLVEWLQSQMTNGHLPNGGDVYQERLARLENDKESLVLQV  
SVLTDQVEAQGEKIRDLEFCLEEHREKVNATEMLQQELLSRTSLETQKLDLMAEISNLK  
LKLTAVEKDRLDYEDKFRDTEGLIQEINDLRLKVSEMDSERLQYEKKLKSTKSLMAKLSS  
MKIKVGQMQYEKQRMQKQWESLKDELASLKEQLEEKESVKRLQEKLVCKMKGEGVEIVD  
RDIEVQKMKKAVESLMAANEEKDRKIEDLRQCLNRYKKMQDTVVLAQGKDGEYEELLNSS  
SISSLLDAQGFSDLEKSPSPTPVMGSPSCDPFNTSVPEEFHTTILQVSIPSLPATVSME  
TSEKSKLTPKETSFEENDGNIILGATVDTQLCDKLLTSSLQKSSSLGNLKKETSDEGEKE  
TIQKTSEDRAPAESRPFGLTPRPPGQDTSMDNPFGRKVRSSFGRGFFKIKSNKRTAS  
APNLAETEKETAEHLDLAGASSRPKDSQRNSPFQIPPPSPDSKKKSRGIMKLFGLRRSQ  
STTFNPDDMSEPEFKRGGRATAGPRLGWSRDLGQSNSDLMPFAKWKEQVCNWLMEQG  
LGSYLSNGKHWIASGQTLQASQQDLEKELGIKHSLSHRKKLQLALQALGSEEETNHGKLD  
FNWVTRWLDDIGLPQYKTQFDEGRVDGRMLHYMTVDDLKLVSVLHHLSTKRAIQVLR  
INNFEPNCLRRRPSIDENTIAPSEVQKWTNHRVMEWLRVSDLAEYAPNLRGSGVHGGLMVL  
EPRFNVETMAQLLNIPPNTLLRRHLATHFNLLIGAEAQHQKRDAMELPDYVLLTATAKV  
KPKKLAFSNFGNLRKKKQEDGEYVCPMELGQASGSASKKGFKPGLDMRLYEEDDLDRLE  
QMEDSEGTVRQIGAFSEGINNLTHMLKEDDMFKDFAARSPSASITDEDSNV

>sp|Q6XZB0|LIPI\_HUMAN Lipase member I OS=Homo sapiens GN=LIPI PE=1 SV=2

MRVYIFLCLMCWVRSDNKRPCLEFSQLSVKDSFRDLFIPRIETILMMYTRNNLNCAEPLF  
EQNNSLNVNFNTQKKTVWLHGYRPVGSIPLWLQNFVRILLNEEDMNVIVVDWSRGATT  
IYNRAVKNTRKVAVSLSVHIKNLLKHGASLDNFHFIGVSLGAHISGFVGKIFHGQLGRIT  
GLDPAGPRFSRKPYPYSLDYDTAKFVDVIHSDSNGLGIQEPLGHIDFYPPNGGNKQPGCPK  
SIFSGIQFIKCNHQRAVHLFMASLETNCNFSIFPCRSYKDYKTSLCVDCDFKEKSCPRL  
GYQAKLFFKGVLKERMGRPLRTTVFLDTSGTYPFCTYYFVLSIIVPDKTMMDGFSFSLK  
NLGMIIEEPRLYEKNKPFYKLQEVKILAQFYNDFVNISSIGLTYFQSSNLQCSTCTYKIQ  
RLMLKSLTYPERPPLCRYNIVLKDREEVFLNPNTCTPKNT

>sp|Q5VXJ0|LIPK\_HUMAN Lipase member K OS=Homo sapiens GN=LIPK PE=2 SV=2

MWQLLAACWMLLLGSMYGYDKKGNANPEANMNISQIIISYWGYPYEEYDVTTKDGYILG  
IYRIPHGRGCPGRTAPKPAVYLQHGLIASASNWICNLNNSLAFLLADSGYDVWLGNRSG  
NTWSRKHLKLSPKSPEYWAFSLDEMAKYDLPATINFIIEKTGQKRLYYVGHSGGTTIAFI  
AFSTNP ELAKKIKIFFALAPVTVKYTQSPMKLLTTLRRVVKVLFGDKMFHPHTLFDQF  
IATKVCNRKLFRRICSNFLFTLSGFDPQNLNMSRLDVYLSHNPAGTSVQNMLHWAQAVNS  
GQLQAFDWGNSDQNMHMFHQLTPPLYNITKMEVPTAIWNGGQDIVADPKDVENLLPQIAN  
LIYYKLIPHYNHVDLYLGEDAPQEIYQDLIILMEEYLQN

>sp|P06858|LIPL\_HUMAN Lipoprotein lipase OS=Homo sapiens GN=LPL PE=1 SV=1

MESKALLVLTLAVWLQSLTASRGVAAADQRRDFIDIESKFALRTPEDTAEDTCHLIPGV  
AESVATCHFNHSSKTFMVIHGWTVTGMYESWVPKLVAALYKREPDSNVIVVDWLSRAQEH  
YPVSAGYTKLVGQDVARFINWMEEEFNYPDLNVHLLGYSLGAHAAGIAGSLTNKKVNRIT

GLDPAGPNFEYAEAPSRLSPDDADFVDVLHTFTRGSPGRSIGIQKPVGHVDIYPNGGTFQ  
PGCNIGEAIRVIAERGLGDVDQLVKCSHERSIHLFIDSLNEENPSKAYRCSSKEAFEKG  
LCLSCRKNRCNNLGYEINKVRAKRSSKMYLKTRSQMPYKVFHYQVKIHFSGTESEHTNQ  
AFEISLYGTVAESENIPFTLPEVSTNKTYSFLLIYTEVDIGELMLKLKWKSDSYFSWSDW  
WSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQKGKAPAVFVKCHDKSLNKKSG

>sp|P54317|LIPR2\_HUMAN Pancreatic lipase-related protein 2 OS=Homo sapiens GN=PNLIPRP2  
PE=1 SV=1

MLPPWTLGLLLLATVRGKEVCYGGQLGCFSDKEPWAGTLQRPVKLLPWSPEDIDTRFLLYT  
NENPNNFQLITGTEPDITIEASNFQLDRKTRFI IHGFLDKAEDSWPSDMCKKMFVEKEVNC  
ICVDWRHGSRAMYTQAVQNIRVGAETAFLIQALSTQLGYSLEDVHVIGHSLGAHTAAEA  
GRRLGGRVGRITGLDPAGPCFQDEPEEVRLDPSDAVFVDVIHTDSSPIVPSLGFGMSQKV  
GHLDFFPNGGKEMPGCKKNVLTITDIDGIWEGIGGFVSCNHLRSFEYSSSVLNPDGFL  
GYPCASYDEFQESKCFPCPAEGCCKMGHYADQFKGKTSAVEQTFFLNTGESGNFTSWRYK  
VSVTLSGKEKVNGYIRIALYGSNENSKQYEIFKGSLKPDASHTCAIDVDFNVGKIQKVKF  
LWNKRGINLSEPKLGASQITVQSGEDGTEYNFCSSDTVEENVLQSLYPC

>sp|Q05469|LIPS\_HUMAN Hormone-sensitive lipase OS=Homo sapiens GN=LIPE PE=1 SV=4

MEPGSKSVSRSDWQPEPHQRPITPLEPGPEKTPIAQPESKTLQGSNTQQKPASNQRPLTQ  
QETPAQHDAESQKEPRAQQKSASQEEFLAPQKPAPQQSPYIQRVLLTQQEAASQQGPGLG  
KESITQQEPALRQRHVAQPGPGPEPPPAQQEAESTPAAQAKPGAKREPSAPTESTSQET  
PEQSDKQTTVPQGAQSKQGSLETGLTKLQELSIQRSALWKALSEWVTDSSESQVGS  
SSDTSPTATMGMAQGVKLGFKGKSGYKVMMSGYSGTSPHEKTSARNHRHYQDTASRLIH  
NMDLRTMTQSLVTLAEDNIAFFSSQGPGETAQRLSGVFAGVREQALGLEPALGRLLGVAH  
LFDLDPETPANGYRSLVHTARCLLAHLHKSRYVASNRRSIFFRTHNLAELEAYLAALT  
QLRALVYYAQRLLVNRPVGLFFEGDEGLTADFLREYVTLHKGCFYGRCLGFQFTPAIRP  
FLQTIISIGLVSFGEHYKRNETGLSVAASSLFTSGRFAIDPELRGAEFERITQNLDVHFWK  
AFWNITEMEVLSSLANMASATVRVSRLSLPPEAFEMPLTADPTLTVTISPPLAHTGPGP  
VLVRLISYDLREGQDSEELSSLIKSNQSRLELWPRPQQAPRSRSLIVFHGGGFVAQTS  
RSHEPYLKSWAQELGAPIISIDYSLAPEAPFPRALEECFFAYCWAIKHCALLGSTGERIC  
LAGDSAGGNLCFTVALRAAAYGVRVPDIMAAYPATMLQPAASPSRLLSLMDPLLPLSVL  
SKCVSAYAGAKTEDHSNSDQKALGMMGLVRRDTALLLRDFRLGASSWLSFLELSGRKSQ  
KMSEPIAEPMRRSVSEAAALQPPQGLGTDSLKNLTLRDLRLGNSETSSDTPMSLSAET  
LSPSTPSDVNFLLPPEDAGEEAEAKNELSPMDRGLGVRAAFPEGFHPRRSSQGATQMPLY  
SSPIVKNPFMSPLLAPDSMLKSLPPVHIVACALDPMLDDSVMLARRLRNLGQPVTLRVVE  
DLPHGFLTLAALCRETRQAAELCVERIRLVLTTPAGAGPSGETGAAGVDGGCGGRH

>sp|Q9Y234|LIPT\_HUMAN Lipoyltransferase 1, mitochondrial OS=Homo sapiens GN=LIPT1 PE=1  
SV=1

MLIPFSMKNCQFLLCNCQVPAAGFKKTVKNGLILQSIISNDVYQNLAVEDWIHDHNMLEGK  
PILFFWQNSPSVIGRHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINLTFFTT  
KKKYDRMENLKLIVRALNAVQPQLDVQATKRFDLLLDGQFKISGTASKIGRTTAYHHCTL  
LCSTDGTFLSSLLKSPYQGIIRSNATASIPSLVKNLLEKDPDLTCEVLMNAVATEYAAYHQ  
IDNHIHLINPTDETLFPGINSKAKELQTEWYIYGKTPKFSINTSFHVLYEQSHLEIKVFI  
DIKNGRIEICNIEAPDHWLPLEIRDKNSSLIGSKFCPTETTMLTNILLRTPQDHLKNS  
KWNILCEKIKGIM

>sp|075019|LIRA1\_HUMAN Leukocyte immunoglobulin-like receptor subfamily A member 1

OS=Homo sapiens GN=LILRA1 PE=2 SV=1

MTPIVTVLICRLSLGPRTHVQAGTLPKPTLWAEPGSVITQGSPVTLWCQGILETQEYRL  
YREKKTAPWITRIPQEIVKKGQFPISITWEHTGRYRCFYGSHTAGWSEPSDPLELVVTG  
AYIKPTLSALPSPVVTSGGNVTLHCVSQVAFGSFILCKEGEDEHPQCLNSQPRTHGWSRA  
IFSVPVSPSRWSYRCYAYDSNSPHVWSLPSDLLELLVLGVSKKPSLSVQPGPIVAPGE  
SLTLQCVSDVSYDRFVLYKEGERDFLQLPGPQPQAGLSQANFTLGPVSRSYGGQYRCGA  
YNLSSEWSAPSDPLDILIAQGFRGRPFISVHPGPTVASGENVTLLCQSWGPFHTFLLTKA  
GAADAPLRLRSIHEYPKYQAEFPMSPVTSAHSGTYRCYGLSSNPYLLSHPSDSLELMVS  
GAAETLSPPQNKSDSKAGAANTLSPSQNKTASHPQDYTVENLIRMGIAGLVLVVLGILLF  
EAQHSQRSL

>sp|P59901|LIRA4\_HUMAN Leukocyte immunoglobulin-like receptor subfamily A member 4

OS=Homo sapiens GN=LILRA4 PE=1 SV=2

MTLILTSLLFFGLSLGPRTRVQAENLPKPIWAEPPVITWHNPVTIWCQGTLEAQGYRL  
DKEGNSMRHILKLTLESENKVKLSIPSMWEHAGRYHCYQSPAGWSEPSDPLELVVTAY  
SRPTLSALPSPVVTSGVNVTLRCASRLGLGRFTLIEEGDHRLSWTLNSHQHNHGKFQALF  
PMGPLTFSNRGTRFCYGYENNTPYVWSEPSDPLQLLVSGVSRKPSLLTLQGPVVTGENL  
TLQCGSDVGYIRYTLYKEGADGLPQRPGRPQAGLSQANFTLSPVSRSYGGQYRCYGAHN  
VSSEWSAPSDPLDILIAQGISDRPSLSVQPGPTVTSGEKVTLLCQSWDPMFTFLLTKEGA  
AHPPLRLRSMYGAHKYQAEFPMSPVTSAHAGTYRCYGSRSSNPYLLSHPSEPLELVVSGA  
TETLNPAAKKSDSKTAPHLQDYTVENLIRMGVAGLVLLFLGILLFEAQHSQRSPPRCSQE  
ANSRKDNAPFRVVEPWEQI

>sp|Q6PI73|LIRA6\_HUMAN Leukocyte immunoglobulin-like receptor subfamily A member 6

OS=Homo sapiens GN=LILRA6 PE=2 SV=2

MTPALTALLCLGLSLGPRTRVQAGPFPKPTLWAEPGSVISWGSPVTIWCQGSLEAQEYQL  
DKEGSPEPLDRNNPLEPKNKARFIPSMTQHAGRYRCHYSSAGWSEPSDPLELVMTGF  
YNKPTLSALPSPVVASGGNMTLRCGSQKGYHHFVLMKEGEHQLPRTLDSQQLHSGGFQAL  
FPVGPVTPSHRWRFTCYYYTNTPRVWVSHPSDPLEILPSGVSARKPSLLTLQGPVLAPGQS  
LTLQCGSDVGYDRFVLYKEGERDFLQRPQQPQAGLSQANFTLGPVSPSHGGQYRCYGAH  
NLSSEWSAPSDPLNILMAGQIYDTVSLSAQPGPTVASGENVTLLCQSRGYFDTFLLTKEG  
AAHPPLRLRSMYGAHKYQAEFPMSPVTSAHAGTYRCYGSYSSNPHELLSFPSEPLELMVSG  
HSGGSSLPTGPPSTPASHAKDYTVENLIRMGVAGLVLLFLGILLFEAQHSQRNPQDAAG  
R

>sp|075022|LIRB3\_HUMAN Leukocyte immunoglobulin-like receptor subfamily B member 3

OS=Homo sapiens GN=LILRB3 PE=2 SV=3

MTPALTALLCLGLSLGPRTRVQAGPFPKPTLWAEPGSVISWGSPVTIWCQGSQEAQEYRL  
HKEGSPEPLDRNNPLEPKNKARFIPSMTTEHHAGRYRCHYSSAGWSEPSDPLEMVTGA  
YSKPTLSALPSPVVASGGNMTLRCGSQKGYHHFVLMKEGEHQLPRTLDSQQLHSRGFQAL  
FPVGPVTPSHRWRFTCYYYTNTPWVWVSHPSDPLEILPSGVSARKPSLLTLQGPVLAPGQS  
LTLQCGSDVGYNRFVLYKEGERDFLQRPQQPQAGLSQANFTLGPVSPSNGGQYRCYGAH  
NLSSEWSAPSDPLNILMAGQIYDTVSLSAQPGPTVASGENVTLLCQSWWFDTFLLTKEG  
AAHPPLRLRSMYGAHKYQAEFPMSPVTSAHAGTYRCYGSYSSNPHELLSHPSEPLELVVSG  
HSGGSSLPTGPPSTPLGRYLEVLIGVSVAFVLLLFLLLFLLRRQRHSHKRTSDQRKT  
DFQRPAGAAETEPKDRGLLRSSPAADVQENLYAAVKDTQSEDRVELDSQSPHDEDPQA



VTYAPVKHSSPRREMASPPSSLSGEFLDTKDRQVEEDRQMDTEAAASEASQDVTYAQLHS  
LTLRRKATEPPPSQEGEPPAEPSIYATLAIH

>sp|P50458|LHX2\_HUMAN LIM/homeobox protein Lhx2 OS=Homo sapiens GN=LHX2 PE=2 SV=2

MLFHSLSGPEVHGVIDEEMDRRAKSEAPAISSAIDRGDTETTMPSSISDRAALCAGCGGKI  
SDRYLLAVDKQWHMRCLKCCECKLNLESELTCFSKDGSIYCKEDYYRRFSVQRCARCHL  
GISASEMVMRARDLVYHLNCFCTTCNKMLTTGDHFGMKDSLVCRLHFEALLQGEYPAH  
FNHADVAAAAAAAAAAKSAGLGAAGANPLGLPYNGVGTQKGRPRKRKSPGPGADLAAY  
NAALSCNENDAHLDRDQPYPSQKTKRMRTSFKHHQLRTMKSIFYAINHNPDAKDLKQLA  
QKTGLTKRVLQVWFQNAKFRNLLRQENTGVDKSTDAALQTGTPSGPASELSNASLSP  
SSTPTLTDLTSPTLPTVTSVLTSPGNLEGHEPHSPSQTTLTNLF

>sp|P54315|LIPR1\_HUMAN Inactive pancreatic lipase-related protein 1 OS=Homo sapiens  
GN=PNLIPRP1 PE=1 SV=1

MLIFWTITLFLGAAKGKEVCYEDLGCFSDEPWGGTAIRPLKILPWSPEKIGTRFLLYT  
NENPNNFQILLSDPSTIEASNFQMDRKTRFIHGFIDKGDESWVTDMCKKLFEVEEVNC  
ICVDWKKGSQATYTAANNVRVGAQVAQMLDILLTEYSYPPSKVHLIGHSLGAHVAGEA  
GSKTPGLSRITGLDPVEASFESTPEEVRLDPSDADFVDVIHTDAAPLIPFLGFGTNQQMG  
HLDFPNGGESMPGCKKNALSQIVDLGIWAGTRDFVACNHLRSYKYLESILNPDGFAA  
YPCTSYKSFESDKCFPCPDQGCQMGHYADKFAGRTSEEQQKFLLNTGEASNFARWRYGV  
SITLSGRTATGQIKVALFGNKGNTHQYSIFRGILKPGSTHSYEFDAKLDVGTIEKVFLW  
NNNVINPTLPKVGATKITVQKGEEKTVYNFCSEDTVREDTLLTLTPC

>sp|Q17RR3|LIPR3\_HUMAN Pancreatic lipase-related protein 3 OS=Homo sapiens GN=PNLIPRP3  
PE=2 SV=2

MLGIWIVAFLFFGTSRGKEVCYERLGCFKDGLPWTRTFSTELVGLPWSPEKINTRFLLYT  
IHNPNAVQEISAVNSSTIQASYFGTDKITRINIAGWKTDGKWQRDMCNVLLQLEDINCIN  
LDWINGSREYIHAVNNLRVGAEVAYFIDVLMKKFEYSPSKVHLIGHSLGAHLAGEAGSR  
IPGLGRITGLDPAGPFFHNTPEKVRDPSDANFVDVIHTNAARILFELGVGTIDACGHLD  
FYPNGGKHMPGCEDLITPLLKFNFNAYKKEMASFFDCNHARSYQFYAESILNPDAFIAYP  
CRSYTSFKAGNCFCSKEGCPTMGHFADRFHFKNMKTNGSHYFLNTGSLSPFARWRHKLS  
VKLSGSEVTQGTVFLRVGGAVRKTGEFAIVSGKLEPGMTYTKLIDADVNVGNITSVQFIW  
KKHLFEDSQNKLGAEMVINTSGKYGKSTFCSQDIMGNILQNLKPC

>sp|Q8N149|LIRA2\_HUMAN Leukocyte immunoglobulin-like receptor subfamily A member 2  
OS=Homo sapiens GN=LILRA2 PE=1 SV=2

MTPILTVLICGLSLGPRTHVQAGHLPKPTLWAEPGSVIIQGSPVTLRCQGSQAEEYHL  
YRENKSASWVRRIQEPGKNGQFPPIPSITWEHAGRYHCQYYSHNHSSEYSDPLELVVTGAY  
SKPTLSALPSPVVTLGGNVTLQCVSQVAFDGFILCKEGEDEHPQRLNSHSHARGWSWAIF  
SVGPVSPSRRWSYRCYAYDSNSPYVWSLPSDLLELLVPGVSKKPSLSVQPGPMVAPGESL  
TLQCVSDVGYDRFVLYKEGERDFLQRPGWQPQAGLSQANFTLGPVSPSHGGQYRCYSAHN  
LSSEWSAPSDPLDILITGQFYDRPSLSVQPVPTVAPGKNVTLLCQSRGQFHTFLLTKEGA  
GHPPLHLRSEHQAQQNQAQAEFRMGPVTSAHVGTYRCYSSLSNPYLLSLPSDPLELVVSEA  
AETLSPSQNKTDSTTSLGQHPQDYTVENLIRMGVAGLVLVVLGILLFEAQHSQRSLLQDA  
AGR

>sp|A6NI73|LIRA5\_HUMAN Leukocyte immunoglobulin-like receptor subfamily A member 5  
OS=Homo sapiens GN=LILRA5 PE=1 SV=1

MAPWSHPSAQLQPVGGDAVSPALMVLLCLGLSLGPRTHVQAGNLSKATLWAEPGSVISRG

NSVTIRCQGTLEAQEYRLVKEGSPEPWDQNPLEPKNKARFSIPSMTEHHAGRYRCYYYS  
PAGWSEPSDPLELVVTGFYNKPTLSALPSPVVTSGENVTLQCGSRLRFDRFILTEEGDHK  
LSWTLDSQLTPSGQFQALFPVGPVTPSHRWMLRCYGSRRHILQVWSEPSDLEIPVSGAA  
DNLSPSQNKSDSGTASHLQDYAVENLIRMGMAGLILVVLGILIFQDWHQSRSPQAAAAGR

>sp|Q8N423|LIRB2\_HUMAN Leukocyte immunoglobulin-like receptor subfamily B member 2  
OS=Homo sapiens GN=LILRB2 PE=1 SV=4

MTPIVTVLICLGLSLGPRTHVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRL  
YREKKSASWITIRPELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLMTGA  
YPKPTLSAQSPVVTSGGRVTLQCESQVAFGGFILCKEGEEHQPCLNSQPARGSSRAI  
FSVGPVSPNRRWSHRCYGYDLNSPYVWSSPSDLELLVPGVSKKPSLSVQPGPVVAPGES  
LTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGLSQANFTLGPVSRSYGGQYRCYGAH  
NLSSECSAPSDPLDILITGQIRGTPFISVQPGPTVASGENVTLLCQSWRQFHTFLLTKAG  
AADAPLRLRSIHEYPKYQAEFPMSPVTSAHAGTYRCYGLNSDPYLLSHPSEPLELVVSG  
PSMGSSPPPTGPISTPAGPEDQPLTPTGSDPQSGLGRHLGVVIGILVAVVLLLLLLLLLF  
LILRHRQKGKHWSTQRKADFQHPAGAVGPEPTDRGLQWRSSPAADAQEENLYAAVKDTQ  
PEDGVEMDTRAAASEAPQDVTYAQLHSLTLRRKATEPPPSQEREPPAEPSIYATLAIH

>sp|Q8NHJ6|LIRB4\_HUMAN Leukocyte immunoglobulin-like receptor subfamily B member 4  
OS=Homo sapiens GN=LILRB4 PE=1 SV=3

MIPTFTALLCLGLSLGPRTHMQAGPLPKPTLWAEPGSVISWNSVTIWCQGTLEAREYRL  
DKEESPAPWDRQNPLEPKNKARFSIPSMTEYAGRYRCYRSPVGWSQPSDPLELVMTGA  
YSKPTLSALPSPLVTSGKSVTLQCQRSPMDTFLLIKERAAHPLLHLRSEHGAQQHQAEF  
PMSPVTSVHGGTYRCFSSHGFSHYLLSHPSDPLELIVSGSLEDPRPSPTRSVSTAAGPED  
QPLMPTGSPVPHSGLRRHWEVLIGVLVVSILLSSLLFLLLQHWRQKGKHTLAQRQADFQR  
PPGAAEPEPKDGGLQRRSSPAADVQGENFCAAVKNTQPEDGVEMDTRQSPHDEDPQAVTY  
AKVKHSRPRREMASSPSLSGEFLDTKDRQAEEDRQMDTEAAASEAPQDVTYAQLHSFTL  
RQKATEPPPSQEGASPAEPSVYATLAIH

>sp|Q96L50|LLR1\_HUMAN Leucine-rich repeat protein 1 OS=Homo sapiens GN=LRR1 PE=1 SV=2

MKLHCEVEVISRHLPALGLRNRGKGVRAVLSLCQQTSSRSQPPVRAFLLISTLKDKRGTRY  
ELRENIEQFFTKFVDEGKATVRLKEPPVDICLSKAISSSLKGFLSAMRLAHRGCNVDTPV  
STLTPVKTSEFENFKTKMVITSKKDYPLSKNFPYSLEHLQTSYCGLVVRVDMRMLCLKSLR  
KDLDSHNHIKKLPATIGDLIHLQELNLNDNHLESFSVALCHSTLQKSLRSLDLSKNKIK  
LPVQFCQLQELKNLKDDELQIFPCKIGQLINLRFLSAARNKLPFLPSEFRNLSLEYLD  
LFGNTFEQPKVLPVIKLQAPLTLESSARTILHNRIPYGSHIIPFHLCDLDTAKICVCG  
RFCLNSFIQGTMTMNLHSAHTVVLVDNLGGTEAPIISYFCSLGCYVNSSDMLK

>sp|Q969R5|LMBL2\_HUMAN Lethal(3)malignant brain tumor-like protein 2 OS=Homo sapiens  
GN=L3MBTL2 PE=1 SV=1

MEKPRSIEETPSSEPMEEEEEDDLELFGGYDSFRSYNSSVGSESSSYLEESSEANEDRE  
AGELPTSPLHLLSPGTPRSLDGSSEPAVCEMCGIVGTREAFFSKTKRFCVSCSRSYSS  
NSKKASILARLQGKPPTKAKVLHKAWSAKIGAFLHSQGTGQLADGTPTGQDALVLGFD  
WGKFLKDHSYKAAPVSCFKHVPLYDQWEDVMKGMKVEVLNSDAVLPSRVYWIASVIQTAG  
YRVLLRYEGFENDASHDFWCNLGTVDVHPIGWCAINSKILVPPRTIHAKFTDWKGYLMKR  
LVGSRTLPLVDFHIKMVESMKYPFRQGMRLVVVDKSQVSRTRMAVVDTVIGGRLRLLYEDG  
DSDDDFWCHMWSPLIHPVGWSRRVGHGIKMSERRSDMAHHPTRKIYCDAPPYLFKKVRA  
VYTEGGWFEEGMKLEAIDPLNLGNICVATVCKVLLDGYLMICVDGGPSTDGLDWFCYHAS

SHAIFPATFCQKNDIELTPPKGYEAQTFNWNYLEKTKSKAAPSRLFNMDCPNHGFKVGM  
KLEAVDLMERLICVATVKRVVHRLLSIHFDGWDSEYDQWVDCESPDIYPVGWCEL TGYQ  
LQPPVAAEPATPLKAKEATKKKKKQFGKKRKRIPTKTRPLRQGSKKPLLEDDPQGARKI  
SSEPVPGEIIAVRVKEEHLDVASPDKASSPELPVSVENIKQETDD

>sp|Q9NZU5|LMCD1\_HUMAN LIM and cysteine-rich domains protein 1 OS=Homo sapiens GN=LMCD1  
PE=1 SV=1

MAKVAKDLNPGVKKMSLGQLQSARGVACLGCKGTCSGFEPHSWRKICKSCKCSQEDHCLT  
SDLEDDRKIGRLLMDSKYSTLTARVKGDDGIRIYKRNRMITNPIATGKDPTFDTITYEW  
APPGVTQKLGQLQYMEIPKEKQPVTGTGEGAFYRRRQLMHQLPIYDQDPSRCRGLLENELK  
LMEEFVKQYKSEALGVGEVALPGGGLPKEEGKQKEKPEGAETTAATTNGSLSDPSKEVE  
YVCELCKGAAPPDSPVVYSDRAGYNKQWHPTCFVCAKCEPLVDLIYFWKDGAPWCGRHY  
CESLRPRCSGCDEIIFAEDYQRVEDLAWHRKH FVCEGCEQLLSGRAYIVTKGQLLCPTCS  
KSKRS

>sp|P61968|LM04\_HUMAN LIM domain transcription factor LM04 OS=Homo sapiens GN=LM04 PE=1  
SV=1

MVNPGSSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWSRCLKCSCCQAQLGDI  
GTSCYTKSGMILCRNDYIRLFGNSGACSACGQSIPASELMRAQGNVYHLKCFTCSTCRN  
RLVPGDRFHYINGSLFCEHDRPTALINGHLNSLQSNPLLPDQKVC

>sp|Q8WWI1|LM07\_HUMAN LIM domain only protein 7 OS=Homo sapiens GN=LM07 PE=1 SV=3

MKKIRICHIFTFYSWMSYDVLFRQTELGAL EIWRLICAHVCICVGWLYLRDRVCSKKDI  
ILRTEQNSGRTILIKAVTEKNFETKDFRASLENGVLLCDLINKLKPGVIKKINRLSTPIA  
GLDNINVLKACEQIGLKEAQLFHPGDLQDLSNRVTVKQEETDRRVKNVLITLYWLGRKA  
QSNPYNGPHLNLKAFENLLGQALTKALEDSSFLKRSGRDSGYGDIWCPERGEFLAPPRH  
HKREDSFESLDSLGSRLTSCSSDITLRGGREGFESD TDSEFTFKMQDYNKDDMSYRRIS  
AVEPKTALPFNRFLPNKSRQPSYVPAPLRKKKPKDHEDNRRSWASPVYTEADGTFSSNQR  
RIWGTNVENWPTVQGTSKSSCYLEEEKAKTRSIPNIVKDDLYVRKLSVMPNPGNAFDQF  
LPKCWTPEDVNWKRIKRETYKPWYKEFGFSQFLLQALQTYSDDILSSEHTKIDPTSG  
PRLITRRKNLSYAPGYRRDDLEMAALDPDLEND DFVRKTGVFHANPYVLRAFEDFRKFS  
EQDDSVERRDIILQCREGELVLPDLEKDDMIVRRIPAQKKEVPLSGAPDRYHPVPFPEPWT  
LPPEIQAKFLCVFERTCPSKEKSNSCRILVPSYRQKKDDMLTRKIQSWKLGTTPPISFT  
PGPCSEADLKRWEAIREASRLRHKKRLMVERL FQKIYGENGSKSMSDVSAEDVQNLRLR  
YEEMQKIKSQLKEQDKWQDDLAKWKDRRSYTS DLQKKKEEREEIEKQALEKSKRSSKT  
FKEMLQDRESQNKSTVPSRRRMYSFDDVLEEGKRPTMTVSEASYQSERVEEKGATYPS  
EIPKEDSTTFAKREDRVTEIQLPSQSPVEEQSPASLSSLSRSTQMESTRV SASLPRSY  
RKTDTVRLTSVVTPRPFGSQTRGISSLPRSYTMDDAWKYNGDVEDIKRTPNNVVSTPAPS  
PDASQLASSLSSQKEVAATEEDVTRLPSPTSPFSSLSQDQAATSKATLSSTSGLDLMSES  
GEGEISPQREVSRSQDQFSDMRISINQTPGKSLDFGFTIKWDIPGIFVASVEAGSPA EFS  
QLQVDDEIIAINNTKFSYNSKEWEEAMAKAQETGHLVMDVRRYGKAGSPETKWIDATSG  
IYNSEKSSNL SVTTDFSESLQSSNIESKEINGIHDESNAFESKASESISLKNLKRSSQFF  
EQGSSDSVVPDLVPVTISAPSRWVWDQEEERKRQERWQKEQDRLLQEKYQREQEKLREEW  
QRAKQEAERENSKYLDEELMVLSSNSMSLT TREPSLATWEATWSEGSKSSDREGTRAGEE  
ERRQPQEEVVEDQGGKPDQLVIERERKWEQQLQEEQE QKRLQAEAEQKRPAAEQKRQ  
AEIERETSVRIYQYRRPVDSYDIPKTEEASSGFLPGDRNKS RSTTELDYSTNKGNNKY  
LDQIGNMTSSQRRSKKEQVPSGAELERQQILQEMRKRTPLHNDNSWIRQRSASVNKEPVS

LPGIMRRGESLDNLDSPRSNSWRQPPWLNQPTGFYASSSVQDFSRPPPQLVSTSNRAYMR  
NPSSSVPPPSAGSVKTSTTGVAATTSPTPRSHSPSASQSGSQLNRNSVSGKRICSYCNI  
LGKGAAMIIESLGLCYHLHCFKCVACECDLGGSSSGAEVRIRNHQLYCNDCYLRFKSGRP  
TAM

>sp|Q8IXW0|LMTD2\_HUMAN Lamin tail domain-containing protein 2 OS=Homo sapiens GN=LMNTD2  
PE=2 SV=2

MRWLRPAGRRREQESVSGHLGPPAGAPAAPETPTCLPDTTPHPAPVVCASADPQLALES  
LD  
PRTLRLLRQRELEIQALRWAIQNGEDARLCHILEEVAGLPKRSSHSEKLLQNQVQKL  
IQELKEQKERAQWEKEHLEERLLQTTRTLQEMAEQLNLQKSCLLQLARSSWVGRMLRSQ  
TGSVEVVTAEATLMDPSDLENIQAPTGEGRLEDVDWNSVARRYPNLFTNMEPSSKQKQP  
RPWPQLDTGSPESGKHSEHHTVEWGSPLCLNTSSSGGADSDSSSCRPLPSFVQVIG  
HPPRDHRASSEQALVQAGSYSRSEDQKTHSPRHGEPVLSQPCTDPDHWSPPELLQSPT  
GLKIVAVSCREKFVRIFNPSQESTADLSGMVLKQLVRGFPERLYRFPPGTLLAPRHHVTV  
WGEATRSKAKPLRASSSREPVLISIRGCATLLSPKGEVLSEHRIPRETAPRVFADG  
TDLSIDRFPLPEAGPGADTRKPPRPPRPLRKGRVREPRVRRRPGRGLLPVSSGKLFH  
AREGPAPENPEIPAPQHLPAIPGDPTLPSPPAEAGLGLEDCLQKEHRVRVCRKSVDRS  
CPLVALSVQNTAESRFGFRFLSCLPVTADTCRGA

>sp|Q13449|LSAMP\_HUMAN Limbic system-associated membrane protein OS=Homo sapiens GN=LSAMP  
PE=1 SV=2

MVRRVQPDRLPLVLLRLLCLLPTGLPVRVDFNRGTDNITVRQGDAILRCVVEDKNS  
KVAWLNRSGLIFAGHDKWLDPRVELEKRHSLEYSRLRIQKVDVYDEGSYTCVQTQHEPK  
TSQVYLIVQVPPKISNISSDVTVNEGSNVTLCMANGRPEPVITWRHLTPTGREFEGEEE  
YLEILGITREQSGKYECKAANEVSSADVQKQVTVNYPPTITESKSNEATTGRQASLKCE  
ASAVPAPDFEWYRDDTRINSANGLEIKSTEGQSSLTVTNVTEEHYGNITCVAANKLGVTN  
ASLVLFRRPGSVRGINGSISLAVPLWLLAASLLCLLSK

>sp|O15116|LSM1\_HUMAN U6 snRNA-associated Sm-like protein LSM1 OS=Homo sapiens GN=LSM1  
PE=1 SV=1

MNYMPGTASLIEDIDKKHLVLLRDGRTLIGFLRSIDQFANLVLHQTVERIHVGKKYG  
DIP  
RGIFVVRGENVLLGEIDLEKESDTPLQQVSIEEILEEQRVEQQTKEAEKLVQALKDR  
GLSIPRADTLDEY

>sp|Q9Y4Y9|LSM5\_HUMAN U6 snRNA-associated Sm-like protein LSM5 OS=Homo sapiens GN=LSM5  
PE=1 SV=3

MAANATTNPSQLPLELVDKCIGSRIHIVMKSDEIVGTLLGFDDFVNMVLEDVTEFEIT  
PEGRRITKLDQILLGNNTMLVPGGEGPEV

>sp|P62312|LSM6\_HUMAN U6 snRNA-associated Sm-like protein LSM6 OS=Homo sapiens GN=LSM6  
PE=1 SV=1

MSLRKQTPSDFLKQIIGRPVVVKLNSGVDYRGVLACLDGYMNIALEQTEEYVNGQLKNKY  
GDAFIRGNVLYISTQKRRM

>sp|O95777|LSM8\_HUMAN U6 snRNA-associated Sm-like protein LSM8 OS=Homo sapiens GN=LSM8  
PE=1 SV=3

MTSALENYINRTVAVITSDGRMIVGTLKGFDTINLILDESHERVFSSSQVEQVVLGLY  
IVRGDNVAVIGEIDEETDSALDLGNIRAEPLNSVAH

>sp|P33241|LSP1\_HUMAN Lymphocyte-specific protein 1 OS=Homo sapiens GN=LSP1 PE=1 SV=1  
MAEASSDPGAEREELLGPTAQWSVEDEEEAVHEQCQHERDRQLQAQDEEGGHVPERPK

QEMLLSLKPSEAPELDEDEGFGDWSQRPEQRQQHEGAQGALDSGEPPQCRSPEGEQEDRP  
GLHAYEKEDSDEVHLEELSLSKEGPGPEDTVQDNLGAAGAEQEEHQKCCQPRTPSPLV  
LEGTIEQSSPPLSPTTKLIDRTESLNRSEKSNVKSQPDLPISKIDQWLEQYTQAIET  
AGRTPKLARQASIELPSMAVASTKSRWETGEVQAQSAAKTPSCKDIVAGDMSKSLWEQK  
GGSKTSSTIKSTPSGKRYKFVATGHGKYEVLEGGPAP

>sp|Q9BVC4|LST8\_HUMAN Target of rapamycin complex subunit LST8 OS=Homo sapiens GN=MLST8  
PE=1 SV=1

MNTSPGTVGSDPVILATAGYDHTVRFWQAHSGICTRTVQHQDSQVNALEVTPDRSMIAAA  
GYQHIRMVDLNSNNPNPIISYDGVNKNIASVGFHEDGRWMTGGEDCTARIWDLRSRLQ  
CQRIFQVNAPINCVCCLHPNQAELIVGDQSGAIHWDLKTDHNEQLIPEPEVSITSAHIDP  
DASYMAAVNSTGNCYVWNLTTGGIGDEVTLIPKTKIPAHTRYALQCRFSPDSTLLATCSA  
DQTCKIWRTSNFSMLTELSIKSGNPGESSRGMWGCASFSGDSQYIVTASSDNLARLWCVE  
TGEIKREYGGHQKAVVCLAFNDSVLG

>sp|Q6P1Q0|LTMD1\_HUMAN LETM1 domain-containing protein 1 OS=Homo sapiens GN=LETMD1 PE=1  
SV=1

MALSRVCWARSVWGSVAVTPGHFVTRRLQLGRSGLAWGAPRSSKLHLSPKADVKNLMSYV  
VTKTKAINGKYHRFLGRHFPRFYVLYTIFMKGLQMLWADAKKARRIKTNMWKHNKIFHQL  
PYREMEHLRQFRQDVTCLFLGIISIPPFANYLVFLMYLFPRQLLIRHFWTPKQQTDFL  
DIYHAFRKQSHPEIISYLEKVIPLISDAGLRWRLTDLCTKIQRGTHPAIHDILALRECFS  
NHPLGMNQLQALHVKALSRAMLLTSYLPPLLRHRLKTHTTVIHQDKALAKLGIGQLTA  
QEVKSACYLRGLNSTHIGEDRCRTWLGEWLQISCSLKEAELSLLLHNVLLSTNYLGTRR

>sp|AOA0C4DH73|KV112\_HUMAN Immunoglobulin kappa variable 1-12 OS=Homo sapiens GN=IGKV1-  
12 PE=3 SV=1

MDMRVPAQLLGLLLLWFPGRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQQ  
KPGKAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFP

>sp|P01594|KV133\_HUMAN Immunoglobulin kappa variable 1-33 OS=Homo sapiens GN=IGKV1-33  
PE=1 SV=2

MDMRVPAQLLGLLLLWLSGARCDIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQQ  
KPGKAPKLLIYDASNLETGVPSRFSGSGSGTDFTFITISLQPEDATYYCQQYDNL

>sp|P01624|KV315\_HUMAN Immunoglobulin kappa variable 3-15 OS=Homo sapiens GN=IGKV3-15  
PE=1 SV=2

MEAPAQLLFLLLLWLPDITGEIVMTQSPATLSVSPGERATLSCRASQSVSSNLAWYQQKP  
GQAPRLLIYGASTRATGIPARFSGSGSGTEFTLTISLQSEDFAVYYCQQYNNWP

>sp|P06312|KV401\_HUMAN Immunoglobulin kappa variable 4-1 OS=Homo sapiens GN=IGKV4-1 PE=1  
SV=1

MVLQTQVFISLLLWISGAYGDIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLA  
WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYYST  
P

>sp|AOA075B6S6|KVD30\_HUMAN Immunoglobulin kappa variable 2D-30 OS=Homo sapiens GN=IGKV2D-  
30 PE=3 SV=1

MRLPAQLLGLLMLWVPGSSGDVVMQSPSLSPVTLGQPASISCRSSQSLVYSDGNTYLNW  
FQQRPGQSPRRLIYKVSNDGVPDRFSGSGSGTDFTLKISRVEAEDVGYYCMQGTHWP

>sp|Q15334|L2GL1\_HUMAN Lethal(2) giant larvae protein homolog 1 OS=Homo sapiens GN=LLGL1  
PE=1 SV=3

MMKFRFRQQGADPQREKLKQELFAFNKTVEHGFPNQPSALAFDPELRIMAIGTRSGAVKI  
YGAPGVEFTGLHRDAATVTQMHLFTGQGRLLSLLDDSSLHLWEIVHHNGCAHLEEALSFQ  
LPSRPGFDGASAPLSLTRVTTVLLVAASDIAALGTEGSSVFFLDVTTLTLEGQTLAPGE  
VLRSPDDYRCGKALGPVESLQGHLDPTKILIGYSRGLLVIWNQASQCVDHIFLGNQQL  
ESLCWGRDSSSTVSSHSDGSYAVWSVDAGSFPTLQPTVATTPYGPFPCKAINKILWRNCE  
SGGHFIIFS GGMPRASYGDRHCVSVLRAETLVTLDFTSRIIDFFT VHSTRPEDEFDDPQA  
LAVLLEELVVLDLQTPGWPAVPAPYLAPLHSSAITCSAHVASVPAKLWARIVSAGEQQS  
PQPVSALS WPITGGRNLAQEPSQRGLLLTG HEDGTVRFWDASGVALRPLYKLSTAGLFQ  
TDCEHADSLAQAAEDDWPFRKVGCFDPYSDDPRLGVQKVALCKYTAQMVVAGTAGQVLV  
LELSDVPVEQAVSVAIIDLLQDREGFTWKGHERLSPTGPLPWPAGFQPRVLVQCLPPAA  
VTAVTLHTEWSLAFGTSHGFLFDYQRKSPVLARCTLHPNDSLAMEGPLSRVKS LKKS L  
RQSFRRIRKSRVSGKKRAANASSKLQEANAQLAEQACPHDVENTPVQRRIEPRSADDSLS  
GVVRCLYFADTFLRDGAHHGPTMWAGTNSGSVFAYALEVPAAAVGGEKRPEQAVEAVLGK  
EVQLMHRAPVVAIAVL DGRGRPLPEPYEASRD LAQAPDMQGGHAVLIASEEQFKVFTLPK  
VSAKTKFKLTAHEGCRVRKVALATFASVACEDYAETCLACLNLGDVHVFSVPGLRPQVH  
YSCIRKEDISG IASCVFTRHGQGFYLISPSEFERFSLSARNITEPLCSLDINWPRDATQA  
SYRIRES PKLSQANGTPSILLAPQSLDGSPDPAHSMGPDTPPEPEAALSPMSIDSATSAD  
TTLDTTG DVTVEDVKDFLGSSESEK NLRNLAEDEAHACAILIK

>sp|Q6ZP29|LAAT1\_HUMAN Lysosomal amino acid transporter 1 homolog OS=Homo sapiens GN=PQLC2  
PE=1 SV=1

MVWKKLGS RNFSSCPSGSIQWIWDVLGECAQDGWDEASVGLGLISILCFAASTFPQFIKA  
YKTGNMDQALSLWFLLGWIGDSCNLIGSFLADQLPLQTYTAVYYVLADLVMLTLYFYK  
FRTRPSLLSAPINSVLLFLMGMACATPLLSAAGPVAAPREAFRGRALLSVESGSKPFTRQ  
EVIGFVIGSISSVLYLLSRLPQIRTNFLRKSTQGISYSLFALVMLGNTLYGLSVLLKNPE  
EGQSEGSYLLHHL PWLVGSLGVLLLDTIISIQLVYRRSTAASELEPLLPS

>sp|P83111|LACTB\_HUMAN Serine beta-lactamase-like protein LACTB, mitochondrial OS=Homo  
sapiens GN=LACTB PE=1 SV=2

MYRLMSAVTARAAAPGGLASSCGRRGVHQ RAGLPPLGHGWVGG LGLGLALGVKLAGGL  
RGAAPAQSPAAPDEASPLAEPPEQSLAPWSPQTAPPCSRCFARAIESSRDLLHRIKD  
EVGAPGIVVGVSVDGKEVWSEGLGYADVENRVCKPETVMRIASISKSLTMVALAKLWEA  
GKLDDLIPVQHYPPEFPEKEYEGEKVSVTTRLLISHLSGIRHYEKDIKKVKEEKAYKALK  
MMKENVAFEQEKEGKSNEKNDFTKFKTEQENEAKCRNSKPGKKNDFEQGELYLREKFEN  
SIESLRLFKNDPLFFKPGSQFLYSTFGYTLLAAIVERASGCKYLDYMQKIFHDLDMLTTV  
QEENEPVIYNRARFYVYNKKRLVNTPYVDNSYKWAGGGFLSTVGDLLKFGNAMLYGYQV  
GLFKNSNENLLPGYLPETMVMWTPVPNT EMSWDKEGKYAMAWGVVERKQTYGSCRKQR  
HYASHTGGAVGASSVLLVLPEELDTETINNKVPPRGIIIVSIICNMQSVGLNSTALKIALE  
FDKDRSD

>sp|P18627|LAG3\_HUMAN Lymphocyte activation gene 3 protein OS=Homo sapiens GN=LAG3 PE=1  
SV=5

MWEAQFLG LLFLQPLWVAPVKPLQPGAEPVVW AQEGAPAQ LPCSPTIPLQDLSLLRRAG  
VTWQHQPDSGPPAAAPGHPLAPGHPAAPSSWGPRPRRYTVLSVGPGGLRSGRLPLQPRV  
QLDERGRQRGDFSLWLPARRADAGEYRAAVHLRDRALSCRLRLRLGQASMTASPPGSLR  
ASDWVILNCSFSRPDRPASVHWFNRNGQGRVPVRESPPHHHLAESFLFLPQVSPMDSGPWG  
CILT YRDGFNVSIMYNLTVLGLEPPTPLTVYAGAGSRVGLPCRLPAGVGTRSFLTAKWTP

PGGGPDLLVTGDNGDFTLRLEDVSQAQAGTYTCHIHLEQQLNATVTLAIITVTPKSFGS  
PGSLGKLLCEVTPVSGQERFVWSSLDTPSQRSFSGPWLEAEQQLSQPWQCQLYQGERL  
LGAAVYFTELSPPGAQRSGRAPGALPAGHLLFLILGVLSLLLLVTGAFGFHLWRRQWRP  
RRFSALEQGIHPPQAQSKIEELEQEPEPEPEPEPEPEPEPEPEPEPEQL

>sp|Q13753|LAMC2\_HUMAN Laminin subunit gamma-2 OS=Homo sapiens GN=LAMC2 PE=1 SV=2

MPALWLGCCLCFSLLLPAARATSRREVCDNCGKSRQCFDRELHRQTGNGFRCLNCNDNT  
DGIHCEKCKNGFYRHRERDRCLPCNCSKGSLSARCDNSGRCSCKPGVTGARCDRCLPGF  
HMLTDAGCTQDQRLDSKCDPAGIAGPCDAGRCVCKPAVTGERCDRCRSGYYNLDGGN  
PEGCTQCFCYGHASCRSSAEYSVHKITSTFHQDVGWKAVQRNGSPAKLQWSQRHQDVF  
SSAQRDPVYFVAPAKFLGNQVSYGQSLSFQYRVDRGGRHPSAHDVILEGAGLRITAPL  
MPLGKTLPCGLTKTYTFRLNEHPSNNWSPQLSYFEYRLLRNLTLRIRATYGEYSTGYI  
DNVTLISARPVSGAPAPWVEQCICPVGYKGQFCQDCASGYKRDSARLGPFGTCIPCNCQG  
GGACDPDTGDCYSGDENPDIECADCPIGFYNDPHDPRSCPCPCCHNGFSCSVMPETEEVV  
CNNCPPGVTGARCELCADGYFGDPFGEHGPVRPCQPCQCNNVDPASAGNCDRLTGRCLK  
CIHNTAGIYCDQCKAGYFGDPLAPNPADKCRACNCPMGSEPVGCRSDGTCVCKPGFGGP  
NCEHGAFSCPACYNQVKIQMDQFMQQLRMEALISKAQGGDGVVPDTELEGRMQQAEQAL  
QDILRDAQISEGASRSLGLQAKVRSQENSYSRLDDLKMTVERVRALGSQYQNRVRDTH  
RLITQMLSLAESEASLGNTNIPASDHVGPNGFKSLAQEATRLAESHVESASNMEQLTR  
ETEDYSKQALSLVRKALHEGVSGSGSPDGAVVQGLVEKLEKTKSLAQLTREATQAEIE  
ADRSYQHSLRLSDSVSRQLQGVSDQSFQVEEAKRIKQKADSLSSLVTRHMDEFKRTQKNLG  
NWKEEAQQLLQNGKSGREKSDQLLSRANLAKSRAQEALSMGNATFYEVESILKNLREFDL  
QVDNRKAEAEAMKRLSYISQKVSASDKTQQAERALGSAAADAQRAKNGAGEALEISSE  
IEQEIIGSLNLEANVTADGALAMEKGLASLKSEMREVEGELERKELEFDTNMDAVQMVITE  
AQKVDTRAKNAGVTIQDTLNTLDGLLHMDQPLSVDEEGLVLLEQKLSRAKTQINSQLRP  
MMSELEERARQQRGHLHLETSIDGILADVKNLENIRDNLPFGCYNTQALEQQ

>sp|Q9Y6N6|LAMC3\_HUMAN Laminin subunit gamma-3 OS=Homo sapiens GN=LAMC3 PE=1 SV=3

MAAAALLLGLALLAPRAAGAGMGACYDGAGRPQRCLPVFENAAFGRLAQASHTCGSPPED  
FCPHVGAAGAGAHQCRCDAADPQRHHNASYLTDFHSQDESTWWQSPSMAFGVQYPTSVNI  
TLRLGKAYEITYVRLKFHTSRPESFAIYKRSRADGPWEPYQFYSASCQKTYGRPEGQYLR  
PGEDERVAFTSEFSDISPLSGGNVAFSTLEGRPSAYNFEESPGLQEWVTSTELLISLDR  
LNTFGDDIFKDPKVLQSYYYAVSDFSVGGRCCKNGHASECGPDVAGQLACRCQHNTTGT  
CERCLPFFQDRPWARGTAAEAHECLPCNCSGRSEECTFDRELFRSTGHGGRCHHCRDHTA  
GPHCERCQENFYHWDPRMPCQPCDCQSAGSLHLQCDDTGTCACKPTVTGWKCDRCLPGFH  
SLSEGGCRPCTCNPAGSLDTCPRSGRCPCKENVEGNLCDCRPGTFNLQPHNPAGCSSC  
FCYGHSKVCASTAQFQVHHILSDFHQGAEGWWARSVGGSEHPPQWSPNGVLLSPEDEEEL  
TAPEKFLGDQRFSGQPLILTRVPPGDSPLPVQLRLEGTGLALSLRHSSLSGPQDAGHP  
REVELRFHLQETSEDVAPPLPPHFQRLANLTSRLRVSPGSPAGPVFLTEVRLTSAR  
PGLSPPASWEICSCPTGYTGQFCESCAPGYKREMPQGGPYASCVPCTCNQHGTCDPNTG  
ICVCSHHTEGPSCERCLPGFYGNPFAGQADDQPCPCPGQSACTTIPESREVVCTHCPPG  
QGRRCRCEVCDGFFGDPLGLFGHPQPCHQCQCSGNVDPNAVGNCDPLSGHCLRCLHNTTG  
DHCEHCQEGFYGSALAPRPADKCMPCSCHPQGSVSEQMPCDPVTGQCSCLPHVTARDCSR  
CYPGFFDLQPGRCRSCCHKPLGSQEDQCHPKTGQCTCRPGVTGQACDRCLGFFGFSSIK  
GCRACRCSPLGAASAQCHENGTCVCRPGFEGYKCDRCHDNFFLTADGTHCQQCPSCYALV  
KEEAALKARLTLTEGWLQGSDCGSPWGPLDILLGEAPRGDVYQGHLLPGAREAFLEQM

MSLEGAVKAAREQLQRLNKGARCAQAGSQKTCTQLADLEAVLESSEEEILHAAAILASLE  
IPQEGPSQPTKWSHLATEARALARSHRDTATKIAATAWRALLASNTSYALLWNLEGRVA  
LETQRDLEDTRYQEVQAAQKALRTAVA EVLPEAESVLATVQQVGADTAPYLALLASPGALP  
QKSRAEDLGLKAKALEKTVASWQHMAATEAARTLQTAAQATLRQTEPLTKLHQEARAALTQ  
ASSSVQAATVTVMGARTLLADLEGMKLQFPRPKDQAALQRKADSVSDRLLADTRKKTKQA  
ERMLGNAAPLSSSAKKKGREAEVLAKDSAKLAKALLRERKQAHRRASRLTSQTQATLQQA  
SQQVLASEARRQELEEAEVAGLSEMEQQIRESRISLEKDIETLSELLARLGSLDTHQA  
PAQALNETQWALERLRLQLGSPGSLQRKLSLLEQESQQQELQIQGFESDLAEIRADKQNL  
EAILHSLPENCASWQ

>sp|Q9Y383|LC7L2\_HUMAN Putative RNA-binding protein Luc7-like 2 OS=Homo sapiens GN=LUC7L2  
PE=1 SV=2

MSAAQAMRAMLDQMGTSRDGDTTRQRIKFSDDRVCKSHLLNCCPHDVLSGTRMDLGECL  
KVHDLALRADYEIASKEQDFFELDAMDHLQSFADCDRRTTEVAKKRLAETQEEISAEVA  
AKAERVHELNEEIGKLLAKVEQLGAEGNVEESQKVMDEVEKARAKKREAEVYRNSMPAS  
SFQQQKLRVCEVCSAYLGLHDNDRRLADHFGGKLHLGFIEIREKLEELKRVVAEKQEKRN  
QERLKRREEREREEREKLRRSRSHSKNPKRSRSREHRRHRSRSMRERKRRTRSKSREKR  
HRHRSRSSSRSRSRSHQRSRHSSRDRSRERSKRSSSKERFRDQDLASCDRDRSSDRSPR  
DRDRKDKKRSYESANGRSEDRRSSEEREAGEI

>sp|Q6JVE5|LCN12\_HUMAN Epididymal-specific lipocalin-12 OS=Homo sapiens GN=LCN12 PE=2  
SV=1

MRLLCGLWLWLSLLKVLQAQTPPLPLPPPMQSFQGNQFQGEWFVLGLAGNSFRPEHRAL  
LNAFTATFELSDDGRFEVWNAMTRGQHCDTWSYVLIPAAQPGQFTVDHGVEPGADREETR  
VVDSDYTFQALMSRRHTSRLAVLRISLLGRSWLLPPGTLDQFICLGRAQGLSDDNIVFP  
DVTGWSPQASVC

>sp|P31025|LCN1\_HUMAN Lipocalin-1 OS=Homo sapiens GN=LCN1 PE=1 SV=1

MKPLLLAVSLGLIAALQAHLLASDEEIQDVSGTWYKAMTVDRFPEMNLESVTPMTLT  
TLEGGNLEAKVTMLISGRCQEVKAVLEKTDEPGKYTADGGKHVAYIIRSHVKDHYIFYCE  
GELHGKPVRGVKLVGRDPKNNLEALEDFEKAAGARGLSTESILIPRQSETCSPGSD

>sp|Q6ZST4|LCNL1\_HUMAN Lipocalin-like 1 protein OS=Homo sapiens GN=LCNL1 PE=2 SV=2

MVGVSDDQDFLDSKDTMKMAVVLVTPLGNGDLALKFGYPTPHGGCQKMDTTFTEGAVPG  
QFSNPAMALSDIRVAFSDYQHFAALLYLEMRKGGLRNQWLQLYGGRAAGRRPRHPRFGSGM  
SPLCLHQPFLLHAEGGTAGSWCLWPRVPAPPCPSLPLFAPPAPSL

>sp|Q96JN0|LCOR\_HUMAN Ligand-dependent corepressor OS=Homo sapiens GN=LCOR PE=1 SV=2

MQRMIQQFAAEYTSKNSSTQDPSQPNSTKNQSLPKASPVTTSPATAATQNPVLSKLLMAD  
QDSPLDLTVRKSSQSEPSEQDGVLDLSTKKSPCAGSTLSHSPGCSSTQGNRPGRPSQYR  
PDGLRSGDGVPPRSLQDGTREGFGHSTSLKVPLARSLQISELLSRNQLSTAASLGPSGL  
QNHGQHLILSREASWAKPHYEFNLSRMKFRGNGALSNISDLPLAENSAFPKMALQAKQD  
GKKDVSHSSPVDLQIPQVRGMDLSWESRTGDQYSYSSLMGSGTESALSKKLRAILPKQS  
RKSMLDAGPDSWGSDAEQSTSGQPYPTSDQEGDPGSKQPRKKRGYRQYNSEILEEAISV  
VMGKMSVSKAQSIYGIPHSTLEYKVKERLGLTKNPPKKMKMLMRSEGPVSVKIELDPQ  
GEAAQSANESKNE

>sp|O95751|LDOC1\_HUMAN Protein LDOC1 OS=Homo sapiens GN=LDOC1 PE=1 SV=1

MVDELVLLLHALLMRHRALSIENSQLMEQLRLLVCERASLLRQVRPPSPVPFPETFNGE  
SSRLPEFIVQTASYMLVNENRFCNDAMKVAFLISLLTGAEAEWVVPYIEMDSPILGDYRA



FLDEMKQCFGWDDDEDDDEEEEDDY

>sp|Q92604|LGAT1\_HUMAN Acyl-CoA:lysophosphatidylglycerol acyltransferase 1 OS=Homo sapiens GN=LPGAT1 PE=1 SV=1

MAITLEEAPWLGWLLVKALMRFAFMVNNLVAIPSYICYVIIQLPLRVLDKRFWYIEGI  
MYKWLLGMVASWGWYAGYTVMEWGEDIKAVSKDEAVMLVNHQATGDVCTLMMCLQDKGLV  
VAQMMWLMDHIFKYTNFGIVSLVHGDFFIHQGRSYRDQQLLLKKHLENNYRSRDRKWIV  
LFPEGGFLRKRRETSQAFKKNLPLFLTNVTLPRSGATKIILNALVAQQKNGSPAGGDAK  
ELDSKSKGLQWIIDTTIAYPKAEPIDIQTWILGYRKPTVTHVHYRIFPIKDVPLETDDLT  
TWLYQRFVEKEDLLSHFYETGAFFPSKGHKEAVSREMTLSNLWIFLIQSFAFLSGYMWYN  
IIQYFYHCLF

>sp|Q8N145|LGI3\_HUMAN Leucine-rich repeat LGI family member 3 OS=Homo sapiens GN=LGI3 PE=2 SV=1

MAGLRARGGPGPGLLALSALGFCLMLQVSAKRPPKTPPCPPSCSCTRDTAFCVDSKAVPR  
NLPSEVISLTLVNAAFSEIQDGAFLHLLQFLLLNSNKFTLIGDNAFTGLSHLQYLFIE  
NNDIWALSKFTFRGLKSLTHLSLANNLQTLPRDIFRPLDILNDLDRGNSLNCDCVKW  
LVEWLAHTNTTVAPIYCASPPRFQEHKVQDLPLREFDCITDFVLYQTLAFPAVSAEPFL  
YSSDLYLALAQPGVSACTILKWYDVERQLRDYDRIPAPSAVHCKPMVVDSQLYVVVAQLF  
GGSYIYHWPNTTRFTRLQDIDPQVRKPNLEAFRIDGDWYFAVADSSKAGATSLYRWH  
QNGFYSHQALHPWHRDLDLEFVDGEGKPRILVSSSSQAPVIYQWSRTQKQFVAQGEVTQV  
PDAQAVKHFRAGRDSYLCLSRIGDSKILRWEGTRFSEVQALPSRGLALQPFLVGGRRY  
LALGSDFSFTQIQWDEGRQKFVRFQELAVQAPRAFCYMPAGDAQLLAPSFKGQTLVYR  
HIVVDLSA

>sp|Q99538|LGMN\_HUMAN Legumain OS=Homo sapiens GN=LGMN PE=1 SV=1

MVWKVAVFLSVALGIGAVPIDDPEDGGKHVVIVAGSNGWYNYRHQADACHAYQIIHRNG  
IPDEQIVVMYDDIAYSEDNPTPGIVINRPNGTDVYQGVPKDYTGEDVTPQNFLAVLRGD  
AEAVKIGISGKVLKSGPQDHVFIYFTDHGSTGILVFPNEDLHVKDLNETIHYMYKHKMYR  
KMFYIEACESGSMNHLPDNINVYATTAANPRESSYACYDEKRSTYLGDWYSVNW MED  
SDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKTISTMKVMQFQGMKRKASSPVPLPPVT  
HLDLTPSPDVPLTIMKRKLMNTNDLEESRQLTEEIQRHLDARHLIEKSVRKIVSLAASE  
AEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHSPITYEALRHLYVLVNLCEKPYPLHR  
IKLSMDHVCLGHY

>sp|Q9Y693|LHFP\_HUMAN Lipoma HMGIC fusion partner OS=Homo sapiens GN=LHFP PE=2 SV=1

MASSLTCTGVIWALLSFLCAATSCVGFMPYWLWGSQLGKPVSFGTFRRCSTYPVHDESQ  
MMVMVEECGRYASFQGPSAEWRICITVTGLGCGLLLLVALTALMGCCVSDLISRTVGRV  
AGGIQFLGGLLIGAGCALYPLGWDSEEVQTCGYTSGQFDLGKCEIGWAYYCTGAGATAA  
MLLCTWLACFSGKKQKHYPY

>sp|Q86UP9|LHPL3\_HUMAN Lipoma HMGIC fusion partner-like 3 protein OS=Homo sapiens GN=LHFP3 PE=2 SV=3

MPGAAAAAAAAAAMLPAQEAAKLYHTNYVRNSRAIGVLWAIFTICFAIVNVCFIQPYW  
IGDGVDTQAGYFGLFHYCIGNGFSRELTCRGSFTDFSTLPSGAFKAASFFIGLSMMLII  
ACIICFTLFFCNTATVYKICAWMLTSAACLVLGCMIFPDGWDSEVKRMCGEKTDKYT  
LGACSVRWAYILAIIGILDALILSFLAFVLGNRQDSLMAEELKAENKVLLSQYSLE

>sp|Q9H008|LHPP\_HUMAN Phospholysine phosphohistidine inorganic pyrophosphate phosphatase OS=Homo sapiens GN=LHPP PE=1 SV=2

MAPWGKRLAGVRGVLLDISGVLYDSGAGGGTAIAGSVEAVARLKRSRLKVRFTNESQKS  
RAELVGQLQRLGFDISEQEVTAPAPAACQILKEQGLRPYLLIHDGVRSEFDQIDTSNPNC  
VVIADAGESFSYQNMNNAFQVLMLEKPVLSLGKGRIYKETSGLMLDVGPYMKALEYAC  
GIKAEEVVGKPSPEFFKSALQAIGVEAHQAVMIGDDIVGDVGAQRCGMRALQVRTGKFRP  
SDEHHPEVKADGYVDNLAEAVDLLLQHADK

>sp|Q68G74|LHX8\_HUMAN LIM/homeobox protein Lhx8 OS=Homo sapiens GN=LHX8 PE=1 SV=2

MQILSRCQGLMSEECGRRTALAAGRTRKGAGEEGLVSPEGAGDEDCSSSAPLSPSSSPR  
SMASGSGCPPGKVCVNSCGLEIVDKYLLKVNDLCWHVRCLSCSVCRSLGRHTSCYIKDK  
DIFCKLDYFRRYGTRCSRCGRHIHSTDWVRRAGKNVYHLACFACFSCKRQLSTGEEFALV  
EEKVLRCRVHYDCMLDNLKREVENGNISVEGALLTEQDVNHPKPAKRARTSFTADQLQVM  
QAQFAQDNNPDAQTLQKLAERTGLSRRVIQVWFQNCRARHKKHVSPNHSSSTPVTAVPPS  
RLSPMLEEMAYSAYVPQDGTMLTALHSYMDAHSPTTLGLQPLLPHSMTQLPISHT

>sp|P38571|LIPA\_HUMAN Lysosomal acid lipase/cholesteryl ester hydrolase OS=Homo sapiens  
GN=LIPA PE=1 SV=2

MKMRFLGLVVCLVLWTLHSESGGKLTAVDPETNMNVSEIISYWGFPSEEYLVETEDGYI  
LCLNRIPHGRKNHSDKGPKPVVFLQHGLLADSSNWVTNLANSSLGFIADAGFDVWMGNS  
RGNTWSRKHKTLVSQDEFWAFSYDEMAKYDLPASINFILNKTGQEQVYVGHSSQGTIG  
FIAFSQIPELAKRIKMFFALGPVASVAFCTSPMAKLGRLPDHLIKDLFGDKEFLPQSAFL  
KWLGTHVCTHVILKELCGNLCFLLCGFNERNLNMSRVDVYTHSPAGTSVQNMLHWSQAV  
KFQKFQAFDWGSSAKNYFHYNQSYPTYNVKDMLVPTAVWSGGHDWLADVYDVNILLTQI  
TNLVFHESIPEWEHLDFIWGLDAPWRLYNKIINLMRKYQ

>sp|Q6UY18|LIGO4\_HUMAN Leucine-rich repeat and immunoglobulin-like domain-containing nogo  
receptor-interacting protein 4 OS=Homo sapiens GN=LINGO4 PE=2 SV=1

MDAATAPKQAWPPWPPLLFLLLLPGSGGSCPAVCDCTSQQPQAVLCGHRQLEAVPGGLPL  
DTELLDLSGNRLWGLQQGMLSRSLQLQELDSYNQLSTLEPGAFHGLQSLTLRLQGNRL  
RIMGPGVFSGLSALTLLDLRLNQIVLFLDGAFGELGSLQKLEVGDNLVVFVAPGAFAGLA  
KLSTLTLCRNLSTVPGALARLPALVALRLRELDIGRLPAGALRGLGQLKELEIHLWPS  
LEALDPGSLVGLNLSSLAITRCNLSSVPFQALYHLSFLRVLDLSQNPISAIPARRLSPLV  
RLQELRLSGACLTSAHAHAFHGLTAFHLLDVADNALQTEETAFPSPDKLVTLRLSGNPL  
TCDCRLLWLLRLRRHLDFGMSPACAGPHHVQGKSLKEFSDILPPGHFTCKPALIRKSGP  
RWVIAEEGGHAVFSCSGDGPAPTVSWMRPHGAWLGRAGRVRVLEDGTLEIRSVQLRDRG  
AYVCVSVNAGNDSLRTWLEVIQVEPPNGTSDPNITVPGIPGPFFLDSRGVAMVLAVGF  
LPFLTSVTLCFGLIALWSKGKGRVKHHMTDFVAPRPSGDKNSGGNRVTAKLF

>sp|P53667|LIMK1\_HUMAN LIM domain kinase 1 OS=Homo sapiens GN=LIMK1 PE=1 SV=3

MRLTLLCCTWREERMGEESGELPVCASCGQRIYDGQYLQALNADWHADCFRCCDCSASLS  
HQYYEKDQGLFCKKDYWARYGESCHGCSEQITKGLVMVAGELKYHPECFICLTCTGTFIGD  
GDTYTLVEHSKLYCGHCYYQTVVTPVIEQILPDSPGSHLPHTVTLVSIASSHGKRGLSV  
SIDPPHGPPGCGTEHSHTVRVQGVDPGCMSPDVKNSIHVGDRILEINGTPIRNVPLDEID  
LLIQETSRLQLTLEHDPHDTLGHGLGPETSPLSSPAYTPSGEAGSSARQKPVLRSCSID  
RSPGAGSLGSPASQRKDLGRSESLRVVCRPHRIFRPSDLIHGEVLGKGCFGQAIVTHRE  
TGEVMVMKELIRFDEETQRTFLKEVKVMRCLEHPNVLFKFIGVLYKDKRLNFITEYIKGGT  
LRGIKSMDSQYPWSQRVSAKDIASGMAYLHSMNIHRDLNSHNCLVRENKNVVADFG  
LARLMVDEKTQPEGLRSLKKPRKKRYTVVGNPYWMAPEMINGRSYDEKVDVFSFGIVLC  
EIIGRVNADPDYLPRTMDFGLNVRGFLDRYCPPNCPPSFFPITVRCCDLDPKRPSFVKL

EHWLETLRMHLAGHLPLGPQLEQLDRGFWEYRRGESGLPAHPEVPD

>sp|Q2Q1W2|LIN41\_HUMAN E3 ubiquitin-protein ligase TRIM71 OS=Homo sapiens GN=TRIM71 PE=1 SV=1

MASFPETDFQICLLCKEMCGSPAPLSSNSSASSSSSQTSTSSGGGGGGPGAAARRLHVLP  
CLHAFRCRPLEAHRLEPAAGGGAAGEPLKLRCPVCDQKVVLAEEAGMDALPSSAFLLSNLL  
DAVVATADEPPPKNGRAGAPAGAGGHSNHRHHAHHAHPRASASAPPLPQAPQPPAPSRSA  
PGGPAASPSALLRRPHGCSSCDEGNAASSRCLDCQEHLCDNCVRAHQVRVLTGDHYIER  
GPPGPGAAAAAQQGLGPPFPFPFSSILSVFPERLGFCQHHDDEVHLHYCDTCSVPICRE  
CTMGRHGGHSFIYLQEALQDSRALTIQLLADAQQGRQAIQLSIEQAQTVAEQVEMKAKVV  
QSEVKAVTARHKKALEERECELLWKVEKIRQVKAQSLYLQVEKLRQNLNKLESTISAVQQ  
VLEEGRALDILLARDMLAQVQELKTVRSLLQPQEDDRVMFTPPDQALYLAIKSFGFVSS  
GAFAPLTKATGDGLKRALQKVASFTVIGYDHDGEPRLSGGDLMSAVVLGPDGNLFGAEV  
SDQQNGTYVVSYRPQLEGEHLVSVTLNQHIEENSPFKVVVKSGRSYVGIGLPGLSFGSEG  
DSDGKLCRPWGVSVDEKEYIIIVADRSNNRIQVFKPCGAFHHKFGTLGSRPGQFDRPAGVA  
CDASRRIVVADKDNHRIQIFTFEGQFLLKFGEKGTKNQFNYPWDVAVNSEGKILVSDTR  
NHRIQLFGPDGVFLNKYGFEGALWKHFDSPRGVAFNHEGHLVVTDFNNHRLLVIIHPDCQS  
ARFLGSEGTGNGQFLRPQGVAVDQEGRIIVADSRNHRVQMFESNGSFLCKFGAQGSGFGQ  
MDRPSGIAITPDGMIVVDFGNNRILVF

>sp|Q52LA3|LIN52\_HUMAN Protein lin-52 homolog OS=Homo sapiens GN=LIN52 PE=1 SV=1

MGWKMASPTDGTDLASLLSFEKLDRAEPDLWPEQLPGVAEFAASFQSPITSSPPKWMAE  
IERDDIDMLKELGSLTTANLMEKVRGLQNLAYQLGLDESREMTRGKFLNILEKPKK

>sp|Q9HAP6|LIN7B\_HUMAN Protein lin-7 homolog B OS=Homo sapiens GN=LIN7B PE=1 SV=1

MAALVEPLGLERDVSRVALLERLQRSGELPPQKLQALQVRVLSRFCSAIREVYEQLYDT  
LDITGSAEIRAHATAKATVAAFTASEGHAHPRVVELPKTDEGLGFNIMGKEQNSPIYIS  
RVIPGGVADRHGGLKRGDQLLSVNGVSVEGEQHEKAVELLKAAQGSVKLVVRYTPRVLEE  
MEARFEKMRSARRRQQHQSYSSESERG

>sp|Q08380|LG3BP\_HUMAN Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1

MTPPRLFWVWLLVAGTQGVNDGDMRLADGGATNQGRVEIFYRGQWGTVCNLDLTDASV  
VCRALGFENATQALGRAAFQGSGPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAG  
VVCTNETRSTHTLDSRELSEALGQIFDSQRGCDLSISVNVQGEDALGFCGHTVILTANL  
EAQALWKEPGSNVTMSVDAECVPMVRDLLRYFYSSRRIDITLSSVKCFHKLASAYGARQLQ  
GYCASLFAILLPQDPSFQMPLDYAYAVATGDALLEKLCLQFLAWNFEALTQAEAWPSVP  
TDLLQLLLPRSDLAVPSELALLKAVDTWSWGERASHEEVEGLVEKIRFPMMLPEELFELQ  
FNLSLYWSHEALFQKKTQLALEFHTVPFQLLARYKGLNLTEDTYKPRIYTSPTWSAFVTD  
SSWSARKSQLVYQSRRGPLVKYSSDYFQAPS DYRYYPYQSFQTPQHPSFLFQDKRVSWSL  
VYLPTIQSCWNYGFSCSSDELPLVGLTKSGGSDRTIAYENKALMLCEGLFVADVTD FEGW  
KAAIPALDNTSSKSTSSFPAGHFNGFRTVIRPFYLTNSSGVD

>sp|Q8NOV4|LGI2\_HUMAN Leucine-rich repeat LGI family member 2 OS=Homo sapiens GN=LGI2 PE=2 SV=1

MALRRGGCGALGLLLLLGAACLIIPRSAQVRRRLARCPATCSCTKESIICVGSSWVPRIVP  
GDISSLSLVNGTFSEIKDRMFSLPSLQLLLNSNSFTIIRDDAFAGLFHLEYLFIEGNK  
IETISRNAFRGLRDLTHLSLANNHIKALPRDVFSDLDLIELDLRGNKFECCKAKWLYL  
WLKMTNSTVSDVLCIGPPEYQEKKLNDVTSFDYECTTTDFVHHQTLQYQSVSVDTFNSKN  
DVYVAIAQPSMENCMVLEWDHIEMNFRSYDNITGQSIVGCKAILIDDQVFVVVAQLFGGS

HIYKYDESWTKFVKFQDIEVSRISKPNDIELFQIDDETFVIADSSKAGLSTVYKWNKSG  
FYSYQSLHEWFRDTEAEFVDIDGKSHLILSSRSQVPIILQWNKSSKKFVPHGDIPNMEDV  
LAVKSFRMQNTLYLSLTRFIGDSRVMRWNSKQFVEIQALPSRGAMTLQPFSFKDNHYLAL  
GSDYTFSQIYQWDKEKQLFKKFKEIYVQAPRSFTAVSTDRRDFFFASSFKGKTKIFEHII  
VDLSL

>sp|075473|LGR5\_HUMAN Leucine-rich repeat-containing G-protein coupled receptor 5 OS=Homo sapiens GN=LGR5 PE=1 SV=1

MDTSRLGVLLSLPVLLQLATGGSSPRSGVLLRGCPHCHCEPDGRMLLRVDCSDLGLSEL  
PSNLSVFTSYLDLSMNISQLLPNPLPSLRFLEELRLAGNALTYIPKGAFTGLYSLKVLML  
LQNNQLRHVPTEALQNLRLSLRLDANHISYVPPSCFSGLHSLRHLWDDNALTEIPVQ  
AFRSLSALQAMTLALNKIHHIPDYAFGNLSSLVVLHLHNNRIHSLGKKCFDGLHSLETLD  
LNNNLDEFPTAIRTLNKLKELGFHSNNIRSIPEKAFVGNPSLITIHFYDNPIQFVGRSA  
FQHLPELRTLTLNGASQITEFPDLTGANLESLTLTGAQISSLPQTVCNQLPNLQVLDLS  
YNLLEDLPFSFVCQKLQKIDLRHNEIYEIKVDTFQQLSLRSLNLAWNKIAIHPNAFST  
LPSLIKLDLSSNLSSFPITGLHGLTHLKL TGNHALQSLISSENFPELKVIEMPYAYQCC  
AFGVCENAYKISNQWNKGDNSSMDDLHKKDAGMFQAQDERDLEDFLLDFEEDLKALHSVQ  
CSPSPGPFKPCEHLLDGWLIRIGVWTIAVLALTCNALVTSTVFRSPLYISPIKLLIGVIA  
AVNMLTGVSSAVLAGVDAFTFGSFARHGAWWENGVGCHVIGFLSIFASESSVFLTLAAL  
ERGFSVKYSAKFETKAPFSSKVIILLCALLALTMAAVPLLGGSKYGASPLCLPLPFGEP  
STMGYVALILLNSLCFLMMTIAYTKLYCNLDKGDLENIWDCSMVKHIALLLFTNCILNC  
PVAFLSFSSILNLTIFISPEVIKFIILLVVVPLPACLNPLLYILFNPHFKEDLVSLRKQTYV  
WTRSKHPSLMSINSDDVEKQSCDSTQALVTFSTSSITYDLPPSSVPSPAYPVTESCHLSS  
VAFVPCL

>sp|Q9HBX8|LGR6\_HUMAN Leucine-rich repeat-containing G-protein coupled receptor 6 OS=Homo sapiens GN=LGR6 PE=1 SV=3

MPSPPLRALWLCAALCASRRAGGAPQPGPGPTACAPCHCQEDGIMLSADCELSGLSAV  
PGDLPLTAYLDLSMNNLTQLPGLFHHLRFLEELRLSGNHLSHIPGQAFSGLYSLKILM  
LQNNQLGGIPAEALWELPSLQSLRLDANLISLVPERSFEGLSSLRHLWDDNALTEIPVR  
ALNNLPALQAMTLALNRISHIPDYAFQNLTSLVVLHLHNNRIQHLGTHSFEGLHNLETLD  
LNNKLQEFPPVAIRTLGRLQELGFHNNNIKAIPKAFMGNPPLLQTIHFYDNPIQFVGRSA  
FQYLPKLHTLSLNGAMDIEFPDLKGTTSLEILTLTRAGIRLLPSGMCQQLPRLRVLELS  
HNQIEELPSLHRCQKLEEIGLQHNRIWEIGADTFSQLSSLQALDLSWNAIRSIHPEAFST  
LHSLVKLDLTDNQLTTLPLAGLGLMHLKLKGNLALSQAFSKDSFPKLRILEVPYAYQCC  
PYGMCASFFKASGQWEAEDLHLDDEESSKRPLGLLARQAENHYDQDLDELQLEMEDSKPH  
PSVQCSPTPGPFKPCEYLFESWGIRLAVWAIIVLLSVLCNGLVLLTVFAGGPVPLPPVKFV  
VGAAGANTLTGISCGLLASVDALTFGQFSEYGARWETGLGCRATGFLAVLGSEASVLLL  
TLAAVQCSVSVSCVRAYGKSPSLGSGVRAGVLGCLALAGLAAALPLASVGEYGASPLCLPY  
APPEGQPAALGFTVALVMMNSFCFLVVAGAYIKLYCDLPRGDFEAVWDCAMVRHVAVLIF  
ADGLLYCPVAFLSFASMLGLFPVTPEAVKSVLLVVLPLPACLNPLLYLLFNPHFRDDLRR  
LRPRAGDSGPLAYAAAGELEKSSCDSTQALVAFSDVDLILEASEAGRPPGLETYGFPSVT  
LISCQQPGAPRLEGSHCVEPEGNHFGNPQPSMDGELLRLAEGSTPAGGGLSGGGGFQPSG  
LAFASHV

>sp|POCW19|LIMS3\_HUMAN LIM and senescent cell antigen-like-containing domain protein 3 OS=Homo sapiens GN=LIMS3 PE=2 SV=1

MAFSGRARPCIIPENEEIPRAALNTVHEANGTEDERAVSKLQRRHSDVKVYKEFCDFYAK  
FNMANALASATCERCKGGFAPAETIVNSNGELYHEQCFVCAQCFQQFPEGLFYEERT

>sp|075145|LIPA3\_HUMAN Liprin-alpha-3 OS=Homo sapiens GN=PPFIA3 PE=1 SV=3

MMCEVMPTISEDGRRGSALGPDEAGGELERLMVTMLTERERLLETLEAQDGLATAQLRL  
RELGHEKDSLQRQLSIALPQEFAALTKELNLCREQLLEREEIEAELKAERNNTRLLEHL  
ECLVSRHERSLRMTVVKRQAQSPGGVSSEVEVLKALKSLFEHHKALDEKVRERLRMALER  
VAVLEEELELSNQETLNLREQLSRRRSGLEEPGKDGDGQTLANGLPGGDSNRRTAELEE  
ALERQRAEVCQLRERLAVLCRQMSQLEELGTAHRELGKAEAEANSKLQRDLKEALAQRED  
MEERITITLEKRYLSAQREATSLHDANDKLENELASKESLYRQSEKSRQLAEWLDDAKQK  
LQQTLLQKAETLPEIEAQLAQRVAALNKAERHGNFEERLRQLEAQLEEKQELQRARQRE  
KMNDHNLKRLSETVDKLLSESNERLQLHLKERMGALEEKNSLSEEIANMKKLQDELLNK  
EQLLAEMERMQMEIDQLRGRPPSSYSRSLPGSALELRYSQAPTLPSGAHLDPYVAGSGRA  
GKRGRWSGVKEEPSKDWERSAPAGSIPPPFPGELDGSDEEEAEGMFGAELLSPSGQADVQ  
TLAIMLQEQLAINKKEIKLIQEEKETTEQRAEELESRVSSSLGSLGRYSSCSLPPSLT  
TSTLASPPSSGHSTPRLAPPSPAREGTDKANHPKEEAGAPRGEPAPPGDTPPPTPR  
SARLERMTQALALQAGSLEDGGPPRGSEGTDSLHKAPKKKSIKSSIGRLFGKKEKGKRMG  
PPGRDSSSLAGTPSDETLDPLGLAKLTGPGDKDRNRKRKHELLEACRQGLPFAAWDG  
PTVVSLELWVGMPAWYVAACRANVKSGAIMANLSDTEIQREIGISNPLHRLKLRLAIQE  
MVSLTSPSAPASSRTSTGNVWMTHEEMESLTATTKPETKEISWEQILAYGDMNHEWVGND  
WLPSLGLPQYRSYFMESLVDARMLDHLNKKELRGQLKMVDSFHRVSLHYGIMCLKRLNYD  
RKDLERRREESQTQIRDMVMVSNERVMGWVSGLGLKEFATNLTESGVHGALLALDETFDY  
SDLALLLQIPTQNAQARQLLEKEFSNLI SLGTDRLDEDSAKSFSRSPSWRKMFREKDLR  
GVTPDSAEMLPNFRSAAAGALGSPGLPLRKLQPEGQTS GSSRADGVSVRTYSC

>sp|Q9H0V9|LMA2L\_HUMAN VIP36-like protein OS=Homo sapiens GN=LMAN2L PE=1 SV=1

MAATLGPLGSWQQWRRCLSARDGSRMLLLLLLLGSGQGPQQVGAGQTFEYLKREHSLSKP  
YQGVGTGSSSLWNLMGNAMVTQYIRLTPDMQSKQALWNRVPCFLRDWELQVHFKIHGQ  
GKKNLHGDGLAIWYTKDRMQPGPVFGNMDKFVGLGVFVDYTPNEEKQQERVFPYISAMVN  
NGLSYDHERDGRPTELGGCTAIVRNLHYDTFLVIRYVKRHLTIMMDIDGKHEWRDCIEV  
PGVRLPRGYFGTSSITGDLSDNHDI SLKLFELTVERTPEEEKLHRDVFLPSVDNMKLP  
EMTAPLPPLSGLALFLIVFFSLVFSVFAIVIGIILYNKWQE QSRKRFY

>sp|P49257|LMAN1\_HUMAN Protein ERGIC-53 OS=Homo sapiens GN=LMAN1 PE=1 SV=2

MAGSRQRGLRARVRPLFCALLSLGRFVRGDGVGGDPAVALPHRRFEYKYSFKGPHLVQS  
DGTVPFWAHAGNAIPSSDQIRVAPSLKSQRGSVWTKTKAAFENWEVEVTFRVTGRGRIGA  
DGLAIWYAENQGLEGPVFGSADLWNGVGIFFDSDNDGKKNNPAIVII GNNGQIHYDHQN  
DGASQALASCQRDFRNKYPVRAKITYYQNTLTVMINNGFTPDKNDEYFCAKVENMIIPA  
QGHFGISAATGGLADDHDVLSFLTFLTEPGKEPPTPDKEISEKEKEYQEEFEHFQQEL  
DKKKEEFQKGHPDLQGGPAEEIFESVGDREL RQVFEGQNRHLEIKQLNRQLDMILDEQR  
RYVSSLTEEISKRGAGMPGQHGTITQQELDTVVKTQHEILRQVNEMKNSMSETVRLVSGM  
QHPSAGGVYETTQHFIDIKEHLHIVKRDIDNLVQRNMPSNEKPKCELPFPFSPCLSTVH  
FIIFVVVQTVLFIGYIMYRSQQEAAAKKFF

>sp|Q12907|LMAN2\_HUMAN Vesicular integral-membrane protein VIP36 OS=Homo sapiens GN=LMAN2  
PE=1 SV=1

MAAEGWIWRWGWRRCLGRPGLLGPGPGPTTFLLLLLLSVTADITDGNSEHLKREHSL  
IKPYQGVGSSSMPLWDFQGSTMLTSQYVRLTPDERSKEGSIWNHQPCFLKD WEMHVHFKV

HGTGKKNLHGDGIALWYTRDRLVGPVFGSKDNFHGLAIFLDTYPNDETERVFPYISVM  
VNNGSLSYDHSKGRWTELAGCTADFRNRDHDFTLAVRYSRGRLTVMTDLEDKNEWKNCI  
DITGVRLPTGYFASAGTGDLSDNHDIISMKLFQLMVEHTPDEESIDWTKIEPSVNFLK  
SPKDNVDDPTGNFRSGPLTGWRVFLLLLCALLGIVVCAVVGAVVFQKRQERNKRFY

>sp|Q9NUN5|LMBD1\_HUMAN Probable lysosomal cobalamin transporter OS=Homo sapiens GN=LMBRD1  
PE=1 SV=1

MATSGAASAEIVIGWCIFGLLLAILAFCWIIYVRKYQSRRESEVVSTITAIFSLAIALIT  
SALLPVDIFLVSYMKNQNGTFKDWANANVSRQIEDTVLYGYTLYSVILFCVFFWIPFVY  
FYEEKDDDDTSKCTQIKTALKYTLGFVVICALLLVGAFVPLNVPNNKNSTEWKVKSL  
FEELGSSHGLAALSFSISLTLIGMLAAITYTAYGMSALPLNLKGTSAAYERLENTE  
IEEVEQHIQTIKSKSKDGRPLPARDKRALQFEERLRTLKKRERHLEFIENSWWTKFCGA  
LRPLKIVWGIFFILVALLFVISLFLSNLDKALHSAGIDSGFIIFGANLSNPLNMLLPLLQ  
TVFPLDYILITIIIMYFIFTSMAGIRNIGIWWFIRLYKIRRGTRPQALLFLCMILLI  
VLHTSYMIYSLAPQYVYMGSQNYLIETNITSDNHKGNSTLSVPKRCADAPEDQCTVTRT  
YLFLHKFWFFSAAYYFGNWAFLGVFLIGLIVSCCKGKKSIEGVDESDISDDEPSVYSA

>sp|Q68DH5|LMBD2\_HUMAN LMBR1 domain-containing protein 2 OS=Homo sapiens GN=LMBRD2 PE=1  
SV=1

MSGAALGLEIVFVFFLALFLLHRYGDFKKQHRVLIIGTLLAWYLCFLIVFILPLDVSTTI  
YNRCKHAAANSSPPENSNITGLYATANPVPSQHPCFKPWSYIPDGIMPIFWRVVYWTSQF  
LTWILLPFMQSYARSGGFSITGKIKTALIENTAIYYGTYLLIFGAFLIYVAVNPHLHLEWN  
QLQTIGIAAANTWGLFLLVLLGYGLVEIPRSYWNGAKRGYLLMKTYFKAACLMTAKADA  
EENLEDAMEEVRKVNESIKYNHPLRKCVDTILKKCPTEYQEKMGNNMDDYEDFDEKHSIY  
PSEKSLVKLHKQVIYSVQRHRRQTQVQWILLEQAFYLEDVAKNETSATHQFVHTFQSPEP  
ENRFIQYFYNPFTFEWYWECLLRPFYKILAVVLSIFSIVVWSECTFFSTTPVLSLFAVF  
IQLAEKTYNYIYIEIACFLSIFFLSICVYSTVFRIRVFNYYLASHHQTDAYSLLFSGML  
FCRLTPPLCLNGLTHMDSSISHKNTQPTAYTSIMGSMKVSFIADGFYIYPMPLVVIL  
CIATYFSLGTRCLNLLGFQQFMGDDMTSDLVNEGKELIRKEKRKRQRQEEGENRRREWK  
ERYGHNREDSTRNRNIHTDPKESNFSVDVNTNRSFAKYTRANRTERDRIELLQDAEPLDF  
NAETFTDDPLESESGRYQPGGRYLSMSRSDIFNDV

>sp|Q96JM7|LMBL3\_HUMAN Lethal(3)malignant brain tumor-like protein 3 OS=Homo sapiens  
GN=L3MBTL3 PE=1 SV=2

MTESASSTSGQEFDFVSMWDKGVGTLPGSDLKFRVNEFGALEVITDENEMENVKKATA  
TTTWMVPTAQEAPTSPPSSRPVFPPAYWTSPPGCPTVFSEKTGMPFRLKDPVKVEGLQFC  
ENCCQYGNVDECLSGGNYCSQNCARHIKDKDQKEERDVEEDNEEDPKCSRKKPKLSLK  
ADTKEDGEERDDMENKQDVRIILRGSRARRKRRGDSAVLKQGLPPKGKKAWCWASYLEE  
EKAVAVPAKLFEHQSFYPYKNGFKVGMKLEGVDPEHQSVYCVLTVAEVCGYRIKLHFDG  
YSDCYDFWVNADALDIHPVGWCEKTGHKLHPPKGYKEEFNWQTYLKTCKAQAAPKSLFE  
NQNITVIPSGFRVGMKLEAVDKKNPSFICVATVTMDVNRFLVHFDNWDESIDYWCEASS  
PHIHPVGWCKEHRRTLTTPPGYPNVKHFSDWKYLEETNSLPAPARAFVKPPHGFQKKMK  
LEVVDKRNPMFIRVATVADTDDHRVKVHFDGWNNCYDYWIDADSPDIHPVGWCSKTGHPL  
QPPLSPLELMEASEHGGCSTPGCKGIGHFKRARHLGPHSAANCPYSEINLNKDRIFPDRL  
SGEMPPASPSFPRNKRTDANESSSSPEIRDQHADDVKEDFEERTESEMRTSHEARGAREE  
PTVQQAQRSAVFLSFKSPIPLPLRWEQQSKLLPTVAGIPASKVSKWSTDEVSEFIQSL  
PGCEEHGKVFKEQIDGEAFLMTQTDIVKIMSILGPALKIFNSILMFKAAEKNSHNEL

>sp|Q8WVP7|LMBR1\_HUMAN Limb region 1 protein homolog OS=Homo sapiens GN=LMBR1 PE=1 SV=1  
MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIAIVNRIS  
LFLSTFTLAVSAGAVLLLPFSIISNEILLSFPQNYIIQWLNGSLIHGLWNLASLFSNLCL  
FVLMPPFAFFFLSEGFAGLKKGIRARILETLVMLLLLALLILGIVVVASALIDNDAASME  
SLYDLWEFYLPYLYSCISLMGCLLLLLCTPVGLSRMFTVMGQLLVKPTILEDLDEQIYII  
TLEEEALQRRNLGLSSSVVEYNIMELEQELENVKTCLKLERRKKASAWERNLVYPAVMVL  
LLIETSISVLLVACNILCLLVDETAMPKGTRGPGIGNASLSTFGFVGALEIILIFYLMV  
SSVVGFYSLRFFGNFTPKKDDTTMTKIIIGNCVSILVLSSALPVMSTLGITRFDLLGDFG  
RFNWLGNFYIVLSYNLLFAIVTTLCLVRKFTSAVREELFKALGLHKLHLPNTSRDSETAK  
PSVNGHQKAL

>sp|Q6UX01|LMBRL\_HUMAN Protein LMBR1L OS=Homo sapiens GN=LMBR1L PE=1 SV=2  
MEAPDYEVLSVREQLFHERIRECIISTLLFATLYILCHIFLTRFKKPAEFTTVDDDATV  
NKIALELCFTTLAIALGAVLLLPFSIISNEVLLSLPRNYIIQWLNGSLIHGLWNLVFLFS  
NLSLIFLMPFAYFFTESEGFAGSRKGVLGRVYETVVMLMLTLLVLGMVWVASAIVDNK  
ANRESLYDFWEYYPYLYSCISFLGVLLLLVCTPLGLARMFSVTGKLLVKPRLLEDLEEQ  
LYCSAFEEAALTRRICNPTSCWPLDMELLHRQVLALQTQRVLLEKRRKASAWQRNLGYP  
LAMLCLLVLTGLSVLIVAIHILELLIDEAAMPGRMGQTSLGQVSFSKLSFGAVIQVVL  
FYLMVSSVVGFYSSPLFRSLRPRWHDAMTQIIIGNCVCLLVSSALPVFSRTLGLTRFDL  
LGDFGRFNWLGNFYIVFLYNAAFAGLTTLCLVKFTTAAVRAELIRAFGLDRLPLPVSGFP  
QASRKTQHQ

>sp|P20700|LMNB1\_HUMAN Lamin-B1 OS=Homo sapiens GN=LMNB1 PE=1 SV=2  
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QLQVTEREEVVRGREL TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLN  
YAKKESDLNGAQIKLREYEAALNSKDAALATALGDKKSLEGDLEDLKDQIAQLEASLAAA  
KKQLADETLLKVDLENRCQSLTEDLEFRKSMYEEEINETRKHETRLVEVDSGRQIEY  
KLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSEMNTSTVNSAREELMESRMRI  
ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIRDQMQQQLNDY  
EQLLDVKLALDMEISAYRKLEGEERLKLSPSPSSRVTVSRASSRSVRTTRGKRKRVD  
VEESEASSSVSISHSASATGNVCIEEIDVDGKFIRLKN TSEQDQPMGGWEMIRKIGDTSV  
SYKYTSRYVLKAGQTVTIWAANAGVTASPTDLIWKNNQNSWGTGEDVKVILKNSQGEEVA  
QRSTVFKTTIPEEEEEEEAAGVVVEELFHQQGTPRASNRSCAIM

>sp|F2Z398|LMO7D\_HUMAN LMO7 downstream neighbor protein OS=Homo sapiens GN=LMO7DN PE=2  
SV=1  
MTWLDKGVWTQEDENSCSFSESDFPGCRDQINPSIPSIWTAVSGMMISLEVRWWIKGKQG  
YVISLGHALSPRLECSGTFSAHCILGLPGGSSYPASVSQVVGTALYLVEEAWAEAGKM  
RS

>sp|Q6ZMQ8|LMTK1\_HUMAN Serine/threonine-protein kinase LMTK1 OS=Homo sapiens GN=AATK PE=1  
SV=2  
MSSSFFNP SFAFSSHFDPDGAPLSELSWPSSLAVVAVSFSGLFAVIVLMLACLCKKGGI  
GFKEFENAEGDEYAADLAQGPATAAQNGPDVYVLPLTEVSLPMAKQPGRSVQLLKSTDV  
GRHSLLYLKEIGRGWFGKVFLGEVNSGISSAQVVVKELQASASVQEQMQFLEEVQPYRAL  
KHSNLLQCLAQCAEVTPYLLVMEFCPLGDLKGYLRSCRVAESMAPDPRTLQRMACEVACG  
VLHLHRNRFVHSDALARNCLLTADLTVKIGDYGLAHCKYREDYFVTADQLWVPLRWIAPE  
LVDEVHSNLLVVDQTKSGNVWSLGVTIWELFELGTQYPYQHSDQQVLAYTVREQQKLKLPK

PQLQLTSLDRWYEVMQFCWLQPEQRPTAEEVHLLLSYLCAKGATEAEEEFERRWRSRLPG  
GGGVGP PGAAGPMLGGVVELAAASSFPLLEQFAGDGFHADGDDVLTVTETSRGLNFEYK  
WEAGRGAEAFPATLSPGRTARLQELCAPDGAPPGVVPVLSAHSPLSGSEYFIRLEEAA  
AGHDPDCAGCAPSPATADQDDSDGSTAASLAMEPLLGHGPPVDVPWGRGDHYPRRSLA  
RDPLCPSRSPSPSAGPLSLAEGGAEDADWGVAAFCPAFFEDPLGTSPLGSSGAPPLPLTG  
EDELEEVGARRAAQRGHWRSNVSANNNSGSRCPESWDPVSAGGHAEGCPSPKQTPRASPE  
PGYPGEPLLGLQAASAQEPGCCPLPHLCSAQLAPAPCLVTPSWTETASSGGDHPQAEP  
KLATEAEGTTGPRPLPLSPVSPSQEGAPLPSEEASAPDAPDALPDSPTPATGGEVSAIKL  
ASALNGSSSSPEVEAPSSSEDEDTAETSGIFTDTSSDGLQARRPDVPAFRSLQKQVGTP  
DSLDSLIPSSASDGGYEVFSPSATGPSGGQPRALDSGYDTENYESPEFVLKEAQEGCEP  
QAFaelasegegpPetrLstSLsGLNEKNPYRDSAYFSdleAEAEATSGPEKKCGGDRA  
PGPELGLPSTGQPSEQVCLRPGVSGEAQSGSGPEVLPLLQLEGSSPEPSTCPSGLVPEP  
PEPQGPAKVRPGSPSCSQFFLLTPVPLRSEGNSSFEQGPPGLLSGPAPQKRMGGPGTPR  
APLRLALPGLPAALEGRPEEEEEDESDESDEELRCYSVQEPSSEEEAPVPVVVAE  
SQSARNLRSLLKMPSLLSETFCEDLERKKKAVSFFDDVTYVLFdqESPTRELGEFPFGAK  
ESPPTFLRGSPGPSAPNRPQQADGSPNGSTAEEGGFAWDDDFPLMTAKAAAFAMALDPA  
APAPAAPTPTAPFSRFTVSPAPTSRFSITHVSDSAESKRGP EAGAGGESKEA

>sp|Q8IWU2|LMTK2\_HUMAN Serine/threonine-protein kinase LMTK2 OS=Homo sapiens GN=LMTK2  
PE=1 SV=2

MPGPPALRRRLLLLLVLLIAGSAGAAPLPQTGAGEAPPAAEVSSSFVILCVCSLIILIV  
LIANCVSCCKDPEIDFKEFEDNFDDEIDFTPPAEDTPSVQSPA EVFTLSVPNISLPAPSQ  
FQPSVEGLKSQVARHSLNYIQEIGNGWFGKVLLGEIYTGTSVARVIVKELKASANPKEQD  
TFLKNGEPYYILQHPNILQCVGQCVEAIPYLLVFEFCDLGDLKAYLRSEQEHMRGDSQTM  
LLQRMACEVAAGLAAMHKLHFLHSDLALRNCFLTSDLNVKVG DYGIGFSRYKEDIETDD  
KKVFP LRWTAPELVSFQDRLLTADQTKYSNIWSLGVTLWELFDNAAQPYSNLSNLDVLN  
QVIRERDTKLKPKQLEQPYSDRWYEVLFQWLSPEKRPAAEDVHRLLTYLRLQSQRDSEV  
DFEQQWNALKPNTNSRDSSNNAFPILDHFA RDRLGREMEEVLTVTETSQGLSFEYVWEA  
AKHDHFDERSRGHLDGLSYTSIFYPVEVFESSLSDPGPGKQDDSGQDVPLRVPGVVPVF  
DAHNLSVGSYYYIQLEEKSGSNLELDYPPALLTTDMDNPERTGPESQLTALRSVELEES  
STDEFFQSSDTPKDSLPGDLHVTSGPESPFNNIFNDVDKSEDLP SHQKIFDLMELNGV  
QADFKPATLSSSLDNPKESVITGHFEKEKPRKIFDSEPLCLSDNLMHQDNFDPLNVQELS  
ENFLFLQEKNLKGLSSKEHINDLQTELKNAGFTeamLETSCRNSLDELQFAENKPGL  
SLLQENVSTKGDDTDVMLTGDTLSTSLQSSPEVQVPPTS FETEETPRRVPPDSLPTQGET  
QPTCLDVIVPEDCLHQDISPDAVTVPVEILSTDARTHSLDNRSQDSPGESEETLRLTESD  
SVLADDILASRVSGSSLPELQELHNKPFSEDHSHRRLEKNLEAVETLNQLNSKDAAK  
EAGLV SALSSDSTSQDSLLEDLSAPFPASEPSLET PDSLESVDVHEALLDSLGSHTPQK  
LVPPDKPADSGYETENLESPEWTLHPAEGTADSEPATTG DGGHSGLPNPVIVISDAGD  
GHRGTEVTPETFTAGSQGSYRDSAYFSdNDSEPEKRSEEVPGTSPSALVLVQEQLPEPV  
LPEQSPAAQDSCLEARKSQPD ECLSALHNSSDLELRATPEPAQTGVPQQVHPTED EASS  
PWSVLNAELSSGDDFETQDDR PCTLASTGTNTNELLAYTNSALDKSLSSHSEGPKLKEPD  
IEGKYLKGLGVSGMLDLSedGMDADEEDENSDDSDedLRAFNLHSLSSESEDETEHPVPI  
ILSNEDGRHLRSLLKPTAANAPDPLPEDWKKEKKA VTFDDVTYVLFdqETPTKELGPCG  
GEACGPDLSGPAPASGSPYLSRCINSESSTDEEGGFEWDDDFSPDPFMSKTTSNLLSSK  
PSLQTSKYFSPPPPARSTEQSWPHSAPYSRFSISPANIA SFSLTHLTDSdIEQGGSSedG



EKD

>sp|Q17RB8|LONF1\_HUMAN LON peptidase N-terminal domain and RING finger protein 1 OS=Homo sapiens GN=LONRF1 PE=1 SV=2

MSSPAVARTSPGGSREMAPAPQGRGRFWEVGGGSGHRLERAAAESERWELLLRRGELLAL  
GGHLKGALEAFAAALRRGAPARPECLGALVDCLVFNYRLRHGLGWSAAPVAGADGGAGGL  
LRCLGCRGFLSEPVTVPCGHSYCCRCLRRELRARCRLCDRLPPATASATDAEGTAPRPP  
PLAAAAIASDFRTSVVLNHLAEKWFPQGRRERARAAGRLGELLHQGRYREALAAACEALRA  
EPSDLIVKIYRAESYAGLQEFKAAIEDLNAVLFQLPDWPEVYFRKGKVLCDAGFLGDALQ  
LFLQCLALDEDFAPAKLQVQKILCDLLL PENLKEGLKESSWSSLPCTKNRPFDFHSMEE  
SQSLNEPSPKQSEEIPEVTSEPVKGS LNRAQSAQSINSTEMPAREDCLKRVSSSEPVLSVQ  
EKGVL LKRKLSLLEQDIVNEDGRNKKKQGETPNEVCMFSLAYGDIPEELIDVSDFECS  
LCMRLFFEPVTTPCGHSFCKNCLERCLDHAPYCPLCKESLKEYLADRRYCVTQLLEELIV  
KYLPELSEKKIYDEETAELSHLTKNVPIFVCTMAYPTVPCPLHVFEPYRLMIRRSIQ  
TGTKQFGMCVSDTQNSFADYGCMLQIRNVHFLPDGRSVVDTVGGKFRFVLKRGMKDGYCT  
ADIEYLEDVKVENEDEIKNLRELHDLVYSQACSWFQNLDRFRSQILQHFGSMPEREENL  
QAAPNGPAWCWLLAVLPVDPYQLSVLSMKSLKERLTKIQHILTYFSRDQSK

>sp|P36776|LONM\_HUMAN Lon protease homolog, mitochondrial OS=Homo sapiens GN=LONP1 PE=1 SV=2

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IGGQWRGFWEASSRGGGAFSGGEDASEGGAEAGAGGAGGSAGAGEGPVITALTPMTIPDV  
FPHLPLIAITRNPVFRFIKIEVKNKKLVELLRRKVRLAQPYVGVFLKRDDSNEVDVVE  
SLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRVHISRQLEVEPEEPEAENKHKPRRKSK  
RGKKEAEDELSARHPAELAMEPTPELPAEVLMEVENNVHEDFQVTEEVKALTAEIVKTI  
RDIIALNPLYRESVLQMMQAGQRVVDNPIYLSDMGAALTGAESHELQDVLEETNIPKRLY  
KALLKKEFELSKLQQLGREVEEKIKQTHRKYLLQEQLKIKKELGLEKDDKDAIEEK  
FRERLRELKELVVPKHVMDVDEELSKLGLLDNHSSEFNVTRNYLDWLTSIPWGKYSNENLDL  
ARAQAVLEEDHYGMEDVKKRILEFIAVSQLRGSTQGKILCFYGPVGKTSIARSIARAL  
NREYFRFSVGGMTDAEIKGHRRTYVGAMPGKIIQCLKKTENPLILIDEVDKIGRGYQ  
GDPSSALLELLDPEQANFLDHYLDVVDLSKVLFICTANVTDTIPEPLDRMEMINVSG  
YVAQEKLAI AERYLVPQARALCGLDESKAKLSSDVLTLLIKQYCRESGVRNLQKQVEKVL  
RKSAYKIVSGEAESEVTPENLQDFVGKPVFTVERMYDVTTPGVVMGLAWTAMGGSTLFV  
ETSLRRPQDKDAKGDKGSLEVTGQLGEVMKESARIAYTFARAFLMQHAPANDYLVTSHI  
HLHVPEGATPKDGPSAGCTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTI  
AAKRAGVTCIVLPAENKKDFYDLAAAFITEGLEVHFVEHYREIFDIAFPDEQAEALAVR

>sp|Q86WA8|LONP2\_HUMAN Lon protease homolog 2, peroxisomal OS=Homo sapiens GN=LONP2 PE=1 SV=1

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PNTDPDASDAQDLPLHRICTAALAVQVVGSNWPKPHYTLITGLCRFQIVQVLKEKPYP  
IAEVEQLDRLEEFNPTCKMREELGELSEQFYKYAVQLVEMLDMSVPAVAKLRLLDSLPR  
EALPDILTSIIRTSNKEKLQILDVLSLEERFKMTIPLLRQIEGLKLLQKTRKPKQDDDK  
RVIAIRPIRRITHISGTLEDEDEDEDNDIIVMLEKKIRTSSMPEQAHKVCVKEIKRLKKM  
PQSMPEYALTRNYLELMVELPWNKSTTDRLDIRAARILLDNHYAMEKLKKRVLEYLAVR  
QLKNNLKGPILCFVGPPGVGKTSVGRSVAKTLGREFHRIALGGVCDQSDIRGHRRTYVGS  
MPGRIINGLKTGVNNPVFLLDEVDKLGKSLQGDPAALLEVLDPEQNHNFTHYLNVAF

DLSQVLFATANTTATIPAALLDRMEIIQVPGYTQEEKIEIAHRHLIPKQLEQHGLTPQQ  
IQIPQVTTLDII TRYTREAGVRS LDRKLGAICRAVAVKVAEGQHKEAKLDRSDVTEREGC  
REHILEDEKPESISD TDLALPPEMPILIDFHALKDILGPPMYEMEV SQRLSQPGVAIGL  
AWTPLGGEIMFVEASRMDGEGQLTLTGQLGDVMKESAHLAISWLSRNAKKYQLTNAFGSF  
DLLDNTDIHLHFPAGAVTKDGPSAGVTIVTCLASLFSGR LVRSDVAMTGEITL RGLVLPV  
GGIKDKVLA AHRAGLKQVIIPRRNEKDLEGI PGNV RQDLSFVTASCLDEV LNAAF DGGFT  
VKTRPGLLSKL

>sp|Q9UN81|LORF1\_HUMAN LINE-1 retrotransposable element ORF1 protein OS=Homo sapiens  
GN=L1RE1 PE=1 SV=1

MGKKQNRKTGNSKTQSASPPPKERSSSPATEQSWMENDFDELREEGFRRSNYSELREDIQ  
TKGKEVENFEKNLEECITRITNTEKCLKELMELKTKARELREECRLSRCDQLEERVSA  
MEDEMNMKREGKFREKRIKRNEQSLQEIWYVKRPNRLIGVPESDVENGTKLENTLQD  
IIQENFPNARQANVQIQEIQRTPQRYSSRRATPRHIIVRFTKVEMKEKMLRAAREKGRV  
TLKGKPIRLTADLSAETLQARREWGP I FNILKEKNFQPRISYPAKLSFISEGEIKYFIDK  
QMLRDFVTTRPALKELLKEALNMERNRYQPLQNHAKM

>sp|000370|LORF2\_HUMAN LINE-1 retrotransposable element ORF2 protein OS=Homo sapiens PE=1  
SV=1

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KIYQANGKQKKAGVA I LVSDKTD FKPTKIKRDKEGHYIMVKGSIQQEELTILNIYAPNTG  
APRFIKQVLSDLQRDLDSHTLIMGDFNTPLSILDRSTRQKVNDTQELNSALHQDLDIDI  
YRTLHPKSTEYTFFSAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRIK  
NLTQSRSTTWKLNLLLNDYWVHNEMKAEIKMFFETNENKDTTYQNLWDAFKAVCRGKFI  
ALNAYKRKQERSKIDTLTSQLEKEKQEQTHSKASRRQEITKIRAELEIETQKTLQKIN  
ESRSWFFERINKIDRPLARLIKKKREKNQIDTIKNDKGDITDPTEIQT TIREYYKHL YA  
NKLENLEEMDTFLD TYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDGFTA EF  
YQRYKEELVPFLLKLFQSIEKEGILPNSFYEASII LIPKPGRD TTKENFRPI SLMNIDA  
KILNKILANRIQQHIKKLIHHDQVGFIPGMQGWFNIRKSINVIQHINRAKDKNHV IISID  
AEKAFDKIQQPFMLKTLNKLGDGMYLKIIIRAIYDKPTANIILNGQKLEAFPLKTGTRQG  
CPLSPLLFNIVLEVLARAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLK  
LISNFSKVS GYKINVQKSQAFLYNNNRQTESQIMGELPFTIASKRIKYLGIQLTRDV KDL  
FKENYKPLLKEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYRFNAIPIKLPMTFFTEL  
EKTTLKF IWNQKRARIAKLSQKNKAGGITLPDFKLYYKATVTKTAWYWYQNRDIDQWN  
RTEPSEIMPHIYNYLIFDKPEKNKQWGKDSL NKWCWENWLAICRKLKLDPFLTPYTKIN  
SRWIKDLNVKPKTIKTLEENLGITIQDIGVGKDFMSKTPKAMATKDKIDKWDLIKLSFC  
TAKETTIRVNRQPTTWEKIFATYSSDKGLISRIYNELKQIYKKKTNNPIKKWAKDMNRHF  
SKEDIYAAKKHMKKCSSSLAIREMQIKTTMRYHLTPVRMAI IKKSGNNRCWRGCGEIGTL  
VHCWWDCKLVQPLWKS VWRFLRDLELEIPFDPAIPLLG IYPKDYKSCCYKDTCTRMFIAA  
LFTIAKTWNQPCPTMIDWIKMWHIYTM EYAAIKNDEFISFVGTWMKLETIILSKLSQ  
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>sp|P23490|LORI\_HUMAN Loricrin OS=Homo sapiens GN=LOR PE=1 SV=2

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GGGCGGGSSGGGGGGGIGGCGGSGSVKYSGGGGSSGGGSGCFSSGGGGSGCFSSGGGG  
SSGGGSGCFSSGGGGSSGGGSGCFSSGGGGFSGQAVQCQSYGGVSSGGSSGGGSGCFSSG  
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FSSGGGGSSGCGGSSGIGSGCIISGGGSVCGGGSSGGGGSSVGGSGSGKGVPICHQ  
TQQKQAPTWPSK

>sp|Q9BYJ1|LOXE3\_HUMAN Hydroperoxide isomerase ALOXE3 OS=Homo sapiens GN=ALOXE3 PE=1 SV=1

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LGELLLLVRHKERYAFFRKDSWYCSRICVTEPDGSVSHFPCYQWIEGYCTVELRPGTART  
ICQDSLPLLLDHRTRELRRARQECYRWKIYAPGFCMVVNSFQEMESDKKFALTKTTTCV  
DQGDSSGNRYLPGFPMKIDIPSLMYMEPNVRYSATKTIISLLFNAIPASLGMKLRGLLDRK  
GSWKKLDDMNIFWCHKTFITKYVTEHWCEDHFFGYQYLVGNVPMVLMHCISLPSKLPVT  
NDMVAPLLGQDTCQLTELERGNIFLADYWILAEAPTHCLNQRQQYVAAPLCLLWLSPPGA  
LVPLAIQLSQTPGPDSPIFLPTDSEWDWLLAKTWVRNSEFLVHENNTHFLCTHLLCEAFA  
MATLRQLPLCHPIYKLLPHTRYTLQVNTIARATLLNPEGLVDQVTSIGRQGLIYLMSTG  
LAHFTYTNFCLPDSLARGVLAIPNYHYRDDGLKIWAAIESFVSEIVGYPPSDASVQQD  
SELQAWTGEIFAQAFLGRESSGFPSRLCTPGEMVKFLTAIFNCSAQHAAVNSGQHDFGA  
WMPNAPSSMRQPPPQTKGTTTLKTYLDTLPEVNISCNNLLFWLVSQEPKDKRPLGTYPD  
EHFTEEAPRRSIAAFQSRLAQISRDIQERNQGLALPYTYLDPPLIENSVSI

>sp|Q8IVV2|LOXH1\_HUMAN Lipoygenase homology domain-containing protein 1 OS=Homo sapiens  
GN=LOXHD1 PE=2 SV=3

MMQLTLNTLFPVVSTPAITYIVTVFTGDVRGAGTKSKIYLVMYGARGNKNQSGKIFLEGGV  
FDRGRTDIFHIELAVLLSPLSRVSVGHGNGVNRGWFCEKVILCPFTGIQQTFPSCSNWL  
DEKKADGLIERQLYEMVSLRKKRLKKFPWSLWVWTTDLKKAGTNSPIFIQIYGQKGRTE  
ILLNPNKWKFKPGIIEKFRIELPDLGRFYKIRVWHDKRSSGSGWHLERMTLMTLNKDKY  
NFNCNRWLDANEDDNEIVREMTAEGPTVRRIMGMARYHVTCTGELEGAGTDANVYLCLF  
GDVGDTERLLYNCRNNTDLFEKNADEFTIESVTMRNVRVRIRHDGKSGSGWYLDREV  
LVREEGQPESDNVEFFCLRWLDKDKDGGQLVRELLPSDSSATLKNFRYHISLKTGDVSGA  
STDSRVYIKLYGDKSDTIKQVLLVSDNNLKDYFERGRVDEFTLETNLNIGNINRLVIGHDS  
TGMHASWFLGSGVQIRVPRQKQYTFPANRWLDKNQADGRLEVELYPSEVVEIQKLHYEV  
EIWTGDVGGAGTSARVYMQIYGEKGKTEVLFLSSRSKVFERASKDTFQLEAADVGEVYKL  
RLGHTGEGFGPSWFVDTVLRLHVVREVDTPEEEARKKKEKDKLRQLLKKERLKAKLQR  
KKKKRKGSDDEDEGEEEESSSESSSEEEEEEEEEEEFPGMQEVIEQHKFEAHRWL  
ARGKEDNELVVELVPAGKPGPERNTYEVQVVTGNVPAKTDANVYLTIIYGEEYGDTERP  
LKKSDKSNKFEQGQTDFTIYAIIDLGAITKIRIRHDNTGNRAGWFLDRIDITDMNEITY  
YFPCQRWLAVEEDDQSLRELLPVDESIVLPQSEEGRGGGDNPLDNLALQKDKSTFS  
VTIKTGKKNAGTDANVFITLFGTQDDTGMTLLKSSKTNDSKFERDSIEIFTVETLDLGD  
LWKVRLGHDNTGKAPGWFVDWVEVDAPSLGKCMTFPCGRWLAKNEDDGSIIIRDLFAELQ  
TRLTYTPFPVPEITLYTSDVFAAGTDANIFIIIYGDAVCTQQKYLCTNKREKQFFERKS  
ASRFIVELEDVGEIIEKIRIGHNNTGMNPGWHCSHVDIRLLPKDGAETLTFPCDRWLA  
TSEDDKKTIRELPYDIFTEKYMKGSLRQVYKEVEEPLDIVLSVQIFTGNIPGAGTDA  
KVYITIIYGLDGTGERYLGKSENRTNKFERTADTFIEAADLGVIIKIKLRHDNSKWCA  
DWYVEKVEIWNNTNEDEFLFLCGRWLSLKKEDGRLERLFYEKEYTGDRSSNCSSPADFWE  
IALSSKMADVDISTVTGPMADYVQEGPIIPYVSVTTGKHKAATDSRAFI FLIGEDDER  
SKRIWLDYPRGKRGFSRGSVEEFYVAGLDVGIKKIELGHDGASPESCWLVEELCLAVPT  
QGTYMLNCNCWLAKDRGDITSRVFDLLDAMVVNIGVKVLYEMTVWTGDVVGGSNID  
FMTLYINGSTEEMQLDKKARFEREQNDTFIMEILDIAPFTKMRIRIDGLSRPEWFLE  
RILLKNMNTGDLTMFYGDWLSQRKGKKTLCCEMCAVIDEEEMMEWTSYTVAVKTSIDILG

AGTDANVFIIIFGENGDSGTLALKQSANWNKFERNNTDTFNFDPMLSLGHLCKLRVWHDN  
KGIFPGWHL SYVDVKDNSRDETFHFQCDCWLSKSEGDGQTVRDFACANNKICDELEETTY  
EIVIETGNGETRENVWLILEGRKNRSKEFLMENS SRQRAFRKGTDTTFEFDSIYLG DIA  
SLCVGHLAREDRFIPKRELAWHVKTITITEMEYGNVYFFNCDC LIPLKRKRKYFKVFEVT  
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ERGSTD RFFLETLELVVTRLGLAAECG

>sp|Q99677|LPAR4\_HUMAN Lysophosphatidic acid receptor 4 OS=Homo sapiens GN=LPAR4 PE=1 SV=1

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LFVFCFRMKMRSETAIFITNLAVSDLLFVCTLPFKIFYNFRHWPFGDTLCKISGTAFLT  
NIYGSMLFLT CISVDRFLAIVYPFRSRTIRTRRNSAIVCAGVWILVLSGGISASLFSTTN  
VNNATTCFEGFSKR VWKTYLSKITIFIEVVGFI IPLILNVSCSSVVLRTL RKPATLSQI  
GTNKKKVLKMITVHMAVFVVC FVPYNSVLFYALVRSQAITNCFLERFAKIMYPITLCLA  
TLNCCFDPFIYYFTLESFQKS FYINAHIRMESLFKTETPLTKPSLPAIQEEVSDQTTNN  
GGELMLESTF

>sp|Q96M69|LRGUK\_HUMAN Leucine-rich repeat and guanylate kinase domain-containing protein  
OS=Homo sapiens GN=LRGUK PE=2 SV=1

MATSERALLRTRAASLLRGLGRSRTGARSLQFRAEKERQPCWSFPMGQKTKGSSNIASSY  
LLQQLMHRYQELSDGDEDQGEAGSESESEMLNLEEEFDGVLREEAVAKALHHLGR  
SGSGTEQVYLNLTLSGCNLIDVSI LCGYVHLQKLDLSANKIEDLSCVSCMPYLLELNASQ  
NNLTTFNFKPPKNLKKADFSHNQISEICDLSAYHALTKLILDGNEIEEISGLEMCNNLI  
HLSLANNKITTINGLNKLP IKILCLSNNQIEMITGLEDLKALQNLDSLHNQISSLQLEN  
HDLLEVINLEDNKIAELREIEYIKNLPILRVNLLENPIQEKSEYWFVIFMLRLTELD  
QKKIKVEEKVSAVNKYDPPPEVVAAQDHLTHVNSVMQPQRIFDSTLPSLDAPYPMLILA  
GPEACGKRELAHRLCRQFSTYFRYGACHTTRPPYFGEGRVDYHFISQDVFDEMVMGKF  
ILTFSYGNHKYGLNRDTEG IARDGLASCIHMEIEGVRSLKYSYFEPYILVPMNKEY  
EGYLRRKGLFSRAEIEFAVSRVDLYIKINQNFPGYFDEVINADDLDVAYQKLSQLIREYL  
GLTEEPAKSLATTADVKTSHLKPEAHPTKYISSNMGDFLHSTD RNYLIKFWAKLSAKKTP  
AERDSIHRQHEAARQALMGRIRPDHTLLFQRGPVPAPLTSGLHYTTLEELWKSFDLCED  
YFKPPFGPYPEKSGKDSLVS MKCSLFRFCPWSKELPFQPPEGSISSHLGSGASDSETEET  
RKALPIQSFSHEKESHQHRQHSVPVISRPGSNVKPTLPPI PQRR

>sp|094898|LRIG2\_HUMAN Leucine-rich repeats and immunoglobulin-like domains protein 2  
OS=Homo sapiens GN=LRIG2 PE=2 SV=3

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LPAPSWRALSGLLPPDTAILDFSHNRLSNWNISLESQTLQEVKMNYNELTEIPYFGEPTS  
NITLLSLVHNI IPEINAQALQFYPALES DLSSNI ISEIKTSSFPRMQLKYL NLSNNRIT  
TLEAGCFDNLSSLLVVKLNRNRMSMIPPKIFKLPHLQFLELKRNR I KIVEGLTFQGLDS  
LRSLKMQRNGISKLDGAFFGLNNMEELEHNNLTRVNKGWLYGLRMLQQLYVSQNAIE  
RISPDWEFCQRLSELDSL YNQLTRLDESAFVGLSLLERLNLGDNRVTHIADGVFRFLSN  
LQTLDLRNNEISWAIEDASEAFAGLTSLTKLILQGNQIKSITKKAFIGLESLEHLDLNN  
AIMSIQENAFSQTHLKE LILNTSSLLCDCHLKWLLQWLVDNNFQHSVNVSCAHP EWLAGQ  
SILNVDLKDFVCDDFLKPQIRTHPETIIALRGMNVTLTCTAVSSSDSPMSTVWRKDSEIL  
YDVDTENFVRYWQQAGEALEYTSILHLFNVNFTDEGKYQCIVTNHFGSNYSQKAKLTVNE  
MPSFLKTPMDLTIRTGAMARLECAAEGHPAPQISWQKDGGTDFPAARERRMHVMPEDDVF

FIANVKIEDMGIYSMAQNTAGGLSANASLTVLETPSFIRPLEDKTVTRGETAVLQCIAG  
GSPAPRLNWTKDDGPLLVTERRHFAAANQLLIIVDAGLEDAGKYTCIMSNTLGTERGHIY  
LNVISSPNCDSQSSIGHEDDGWTTVGIVIIVVVCCVVGTSLIWVIVIIYHMRRKNEDYSI  
TNTEELNLPADIPSYLSSQGTLEPQEGYSNSEAGSHQQLMPPANGYIHKGTDGGTGTRV  
ICSDCYDNANIYSRTREYCPYTYIAEEDVLDQTLSSLMVQMPKETYLHPPQDTTAAESL  
IPSANREPSAFPTNHERISEKKLPSTQMSGETLQRPVWNINRELGLPHPPFSQQPVHESP  
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>sp|Q6UXM1|LRIG3\_HUMAN Leucine-rich repeats and immunoglobulin-like domains protein 3  
OS=Homo sapiens GN=LRIG3 PE=2 SV=1

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SRKRLARLPEPLPSWVARLDLSHNRSLFIKASSMSHLQSLREVKLNNNELETIPNLGPVS  
ANITLLSLAGNRIVEILPEHLKEFQSLETLDLSSNNISELQTAFPALQLKYLYLNSNRVT  
SMEPGYFDNLANTLLVLKLNRRNRI SAIPPKMFKLPLQLHLELNRNKIKNVDGLTFQGLGA  
LKSLKMQRNGVTKLMDGAFWGLSNMEILQLDHNLTETITKGWLYGLMLQELHLSQNAIN  
RISPDWAFECQKSELDLTFNHL SRLDDSSFLGLSLLNTLHIGNNRVSYIADCAFRGLSS  
LKTLDLKNNEISWTIEDMNGAFSGLDKLRRLLILQGNRIRSITTKAFTGLDALEHLDLSDN  
AIMSLQGNAFSQMKKLQQLHLNTSSLLCDCQLKWLPQWVAENNFQSFVNASCAHPQLKLG  
RSIFAVSPDGFVCDDFPKPQITVQPETQSAIKGSNLSFICSAASSSDSPMTFAWKKDNEL  
LHDAEMENYAHLRAQGGEVMEYTTILRLREVEFASEGKYQCVISNHFGSSYSVKAKLTVN  
MLPSFTKTPMDLTIRAGAMARLECAAVGHPAPQIAWQKGGTDFPAARERRMHVMPEDDV  
FFIVDVKIEDIGVYSCTAQSAGSISANATLTVLETPSFLRPLLDRTVTKGETAVLQCIA  
GGSPPPKLNWTKDSDPLVVTERHFFAAGNQLLIIVDSVSDAGKYTCEMSNTLGTERGNV  
RLSVIPTPTCDSPQMTAPSLDDDGWATVGVVIAAVVCCVVGTSLVWVVIYHTRRRNEDC  
SITNTDETNL PADIPSYLSSQGT LADRQDGYVSSESGSHHQFVTSSGAGFFLPQHDSSGT  
CHIDNSSEADVEAATDLFLCPFLGSTGPMYLGKNVYGSDFETYHTGCSPDPRTVLMHY  
EPSYIKKKECYPCHSPSEESCERSFSNISWPSHVRKLLNTSYSHNEGPGMKNLCLNKSSL  
DFSANPEPASVASSNSFMGTFGKALRRPHLDAYSSFGQPSDCQPRAFYLKAHSSPDLDG  
SEEDGKERTDFQEEHNICTFKQTLNRYTPNFQSYDLDT

>sp|A6PVS8|LRIQ3\_HUMAN Leucine-rich repeat and IQ domain-containing protein 3 OS=Homo  
sapiens GN=LRRIQ3 PE=1 SV=1

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FITDIHPLQSCIKLIKLDLHGNQIKSLPNTKFWNGLKNLKLKLYLHDNGFAKLKNICVLSA  
CPTLIALTMFDCPVSLKKGYRHVLVNSIWPLKALDHHVISDEEIIQNWHLPERFKACNHR  
LFFNFPCALRKGTYYEEINNIIKHITSKINAILAHNSPVLIVQRWIRGFLVRKNLSPVFF  
HKKKQKEKIIIRGYEAKWIYITKGYEDKLLKDLFFKPETNIKGKLAYWKHNIYYPVDLKN  
SEHRKHVSSILCELKPKDLGMKSKTSRHLIQKGQSEDEIVDEKLDSFRISVFKLPIYT  
SGSLKNNAVLREKKQHFFPAYPQPIYTTHPKPIIKKD IRLERSMKEFFAPQRAGMKLRTF  
SDIDKYYTEQKKQEYHKEKVRVVAQAQVARERVRVAVNEHLNKKYATQKLIENKETIQ  
NSLRQVWQNRNFNLEKARERKALFLKEKSQKASERLLVQNLNNERTLLTRGLLKIDRLEK  
NEAVLKEKSLIVKQKLAEKYRKNLLKEMKKVRSQEIIYKRHCEEKFVMDMIAFEKACERL  
QDAKTKVAIVKTNLDFKVPNGLIK

>sp|Q9P2V4|LRIT1\_HUMAN Leucine-rich repeat, immunoglobulin-like domain and transmembrane  
domain-containing protein 1 OS=Homo sapiens GN=LRIT1 PE=2 SV=1  
MRVALGMLWLLALAWPPQARGFCPSQCSCSLHIMGDGSKARTVVCNDPDMTLPPASIPPD

>sp|A6NDA9|LRIT2\_HUMAN Leucine-rich repeat, immunoglobulin-like domain and transmembrane domain-containing protein 2 OS=Homo sapiens GN=LRIT2 PE=2 SV=1

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>sp|Q12912|LRMP_HUMAN Lymphoid-restricted membrane protein OS=Homo sapiens GN=LRMP PE=1
SV=3
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>sp|Q7Z4F1|LRP10_HUMAN Low-density lipoprotein receptor-related protein 10 OS=Homo
sapiens GN=LRP10 PE=1 SV=2
```

MLLATLLLLLLGGALAHDPDRIIFPNHACEDPPAVLLEVQGTLQRPLVRDSRTSPANCTWL  
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ARAPMGQGFLSYSQDWLMCLQEETFQCLNHRCVSAVQRCDGVDACGDGSDAEGCSSDPFP  
GLTPRPVPSLPCNVTLEDFYGVFSSPGYTHLASVSHPQSCHWLLDPHDGRRLAVRFTALD  
LGFGDAVHVYDGPGPPESSRLLRSLTHFSNGKAVTVETLSGQAVVSYHTVAWSNGRGFNA  
TYHVRGYCLPWDRPCGLGSLGAGEGLGERCYSEAQRCDGSWDCADGTDEEDCPGCPPGH  
FPCGAAGTSGATACYLPADRCNYQTFCADGADERRCRHCQPGNFCRDEKCVYETWVCDG  
QPPCADGSDEWDSCSYVLPRKVITAAVIGSLVCGLLLVIALGCTCKLYAIRTQEYSIFAPL

SRMEAEIVQQQAPPSYGQLIAQGAIPPVEDFPTENPNDNSVLGNLRSLLQILRQDMTPGG  
GPGARRRQRGRMLMRRLVRRLLRWGLLPRTNTPARASEARSQVTPSAAPLEALDGGTGPAR  
EGGAVGGGDGEQAPPLPIKAPLPSASTSPAPTTVPEAPGPLPSLPLEPSLLSGVVQALRG  
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>sp|Q86VZ4|LRP11\_HUMAN Low-density lipoprotein receptor-related protein 11 OS=Homo  
sapiens GN=LRP11 PE=2 SV=2

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EFRRLQQERPQEELELELRAGGPGQEDCPGPGSGGYSAMPDAIIRTKDSLAAGASFLRA  
PAAVRGWRQCVAACCSEPRCSAVVELPRRPAPPAAVLGCYLFNCTARGRNVCKFALHSG  
YSSYSLSRAPDGAALATARASPRQEKDAPPLSKAGQDVVLHLPDGVVLDGRESTDDHAI  
VQYEWALLQGDPVSMDKVPQSGTLKLSHLQEGTYTFQLTVDTAGQRSSDNVSVTVLRAA  
YSTGGCLHTCSRYHFFCDDGCCIDITLACDGVQQCPDGSDEDFCQNLGLDRKMVTHTAAS  
PALPRTTGPSDAGGDSLVEKSQKATAPNKPALSNTTEKRNHSAFWGPESQIIPVMPDSS  
SSGKNRKEESYIFESKGDGGGGEHPAPETGAVLPLALGLAITALLLLMVACRLRLVKQKL  
KKARPITSEESDYLINGMYL

>sp|Q9NZR2|LRP1B\_HUMAN Low-density lipoprotein receptor-related protein 1B OS=Homo  
sapiens GN=LRP1B PE=1 SV=2

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DSDSLDTCPEEVEIKCPLNHIACLGTNKC VHLSQLCNGVLDCPDGYDEGVHCQELLSNC  
QQNCQYKCTMVRNSTRCYCEDGFEITEDGRSCKDQDECAVYGTCSQTCRNTHGSYTCSC  
VEGYLMQPDNRCKAKIEPTDRPILLIANFETIEVFYLNQSKMATLSSVNGNEIHTLDF  
IYNEDMICWIESRESSNLKCIQITKAGGLTDEWTINILQSFHNQQMAIDWLTRNLYFV  
DHVGDRIFVCNSNGSVCVTLIDLELHNPKAIAVDPIAGKLFFTDYGNVAKVERCDMDGMN  
RTRIIDSKTEQPAALALDLVNKL VYWDLYLDYVGVDYQGKNRHTVIQGRQVRHLYGIT  
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NTKIADEYMIPIENLVNPRALDFAETNYIYFADTTSFLIGRQKIDGTERETILKDDLND  
VEGIAVDWIGNNLYWTDGHRKTINVARLEKASQSRKTLEGEMSHPRGIVVDPVNGWY  
WTDWEDEIDDSVGRIEKAWMDGFNRQIFVTSKMLWPNGLTLDFTNTLYWCDAYYDHIE  
KVFLNGTHRKIVYSGRELNHPFGLSHHGNYVFWTDYMNGSIFQLDLITSEVTLLRHERPP  
LFGLQIYDPRKQQGDNMCRVNNGGSTLCLAIIPGGRVCACADNQLLDENGTTCTFNPGEA  
LPHICKAGEFRCKNRHCIQARWKCDGDDCLDGSDEDSVNCFNHSCPDDQFKCQNNRCIP  
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SCEFTCEPLTQFVCKSGRCISSKWHCDSDDDCGDGSDEVGCVHSCFDNQFRCSGRCIP  
GHWACDGDNDGDFSDAQINCTKEEIHSPAGCNGNEFQCHPDGNCVPDLWRCDGEKDCE  
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HPCANDTSVCLQPEKLCNGKKDCPDGSDEGYLCDECSLNNGGCSNHCSVVPGRGIVCSCP  
EGLQLNKDNKTCEIVDYCSNHLKCSQVCEQHKHTVKCSCYEGWKLVDGESCTSVDPFEA  
FIIFSIRHEIRRIDLHKRDYSLLVPGLRNTIALDFHFNQSLLYWTDVVEDRIYRGKLS  
GGVSAIEVVVEHGLATPEGLTVDWIAGNIYWIDSNLDQIEVAKLDGSLRTTLIAGAMEHP  
RAIALDPRYGILFWTDWDANFPRIESASMSGAGRKTIYKDMKTGAWPNGLTVDHFEKRIV  
WTDARSDAIYSALYDGTNMIIEIRGHEYL SHPFAVSLYGSEVYWTDWRTNTLSKANKWTG  
QNVSVIQKTSAPFDLQIYHPSRQPQAPNPCAANDGKGPCSHMCLINHNRSAACACPHLM  
KLSSDKKTCYEMKKFLLYARRSEIRGVDIDNPYFNFIATAFTVPDIDDVTVIDFDASEERL

YWTDIKTQTIKRAFINGTGLETVISRDIQSIRGLAVDWVSRNLYWISSEFDETQINVARL  
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NDTIYWTDMGFNKISRARDQTKWEDIITNGLGRVEGIAVDWIAGNIYWDHGFNLIEVA  
RLNGSFRYVIIISQGLDQPRSIIVHPEKGLLFWTEWGMPCIGKARLDGSEKVVLVSMGIA  
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RGNSRRTCACAHGYLAEDGVTCLRHEGYLLYSGRTILKSIHLSDETNLNSPIRYPENPRY  
FKNVIALAFDYNRRKGTNRIFYSDAHFGNIQLIKDNWEDRQVIVENVGSVEGLAYHRAW  
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IDYVNRRLYWADENHIEFSNMDGSHRHKVPNQDIPGVIALTLFEDIYWTDGKTKSLSRA  
HKTSGADRLSLIYSWHAITDIQVYHSYRQPDVSKHLCMINNGGCSHLCLLAPGKTHTCAC  
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CASDGCISASLCKNGEYDCADGSDMDCVTECKEDQFRCKNKAHCIPIRWLCDGIHDCVD  
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GTCVPSVLGRPTCSALGFTGPNCGKTVCEDFCQNGGTCIVTAGNQPYCHCQPEYTGDRC  
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>sp|075074|LRP3\_HUMAN Low-density lipoprotein receptor-related protein 3 OS=Homo sapiens  
GN=LRP3 PE=2 SV=2

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EAEFVRREAPPSYGLIAQGLIPPVEDFPVYSASQASVLQNLRTAMRRQMRRHASRRGPS  
RRRLGRLWNRLFHRPRAPRGQIPLLTAAARPSQTVLGDGFLQPAPGAAPDPPAPLMDTGST  
RAAGDRPPSAPGRAPEVGPSPPLPSGLRDPECRPVDKDRKVCREPLVDGPAPADAPREP  
CSAQDPHPQVSTASSTLGHPSPEPLGVCRNPPPPCSPMLEASDDEALLVC

>sp|Q8ND56|LS14A\_HUMAN Protein LSM14 homolog A OS=Homo sapiens GN=LSM14A PE=1 SV=3

MSGGTPYIGSKISLISKAEIRYEGILYITIDENSTVALAKVRSFGTEDRPTDRPIPRDE  
VFEYIIIFRGSDIKDLTVCEPPKPQCQLPQDPAIVQSSLGSSTSSFQSMGSYGPFGRMPY  
SQFSPSSLVGQQFGAVGVAGSSLTSTFGTETSNSGTLPSAVGSAFTQDTRSLKTQLSQG  
RSSPQLDPLRKSPTEQAVQTASAPAAVGRRSPVSTRPLPSASQKAGENQEHRRAE  
VHKVSRPENEQLRNDNKRQVAPGAPSAPRRGRGGHRRGGRGFRGIRRDGPMKFEKDFDFES  
ANAQFNKEEIDREFHNKLKLEKLEKQKPVNGEDKGDGSGVDTQNSEGNADEEDPLGPN  
CYYDKTKSFFDNISCDNRERRPTWAEERRLNAETFGIPLRPNRGRGGYRGRGGLGFRGG  
RGRGGGRGGTFTAPRGFRGGFRGGRGREFADFEYRKTTAFGP

>sp|Q9Y333|LSM2\_HUMAN U6 snRNA-associated Sm-like protein LSM2 OS=Homo sapiens GN=LSM2  
PE=1 SV=1

MLFYSFFKSLVGKDVVELKNDLSICGTLHSDQYLNKLTDISVTDPEKYPHMLSVKNC  
FIRGSVVRVQLPADEVDTQLLQDAARKEALQQKQ

>sp|Q9Y4Z0|LSM4\_HUMAN U6 snRNA-associated Sm-like protein LSM4 OS=Homo sapiens GN=LSM4  
PE=1 SV=1

MLPLSLLKTAQNHPMLVELKNGETYNGHLVSCDNWMNINLREVICTSRDGDKFWRMPECY  
IRGSTIKYLRIPEIIDMVKEEVAKGRGRGGLQQKQKQKGRGMGGAGRGVFGGRGRGGI  
PGTGRGQPEKKPGRQAGKQ

>sp|Q8N112|LSME2\_HUMAN Leucine-rich single-pass membrane protein 2 OS=Homo sapiens  
GN=LSMEM2 PE=1 SV=1

MPSLAPDCPLLAMPEETQEDSVAPMMPSQRSRGLAPNHVHEVCLHQVESISDLHSGAGT  
LRPYLTEEAPWDELLGVLPPLCAQAGCSPVYRRGGFLLLLALLVLTCLVLALLAVYLS  
VLQSESLRILAHTLRTQEETLLKLRLASLSQLRRLNSSEAQAPS

>sp|095396|MOCS3\_HUMAN Adenylyltransferase and sulfurtransferase MOCS3 OS=Homo sapiens  
GN=MOCS3 PE=1 SV=1

MASREEVLALQAEVAQREEELNSLKQKLASALLAEQEPQPERLVPVSPLPKKAALS RDEI  
LRYSRQLVLPVLGHGQLRLGTACVLIVGCGGLGCPLAQYLAAAGVGRLGLVDYDVVEMS  
NLARQVLHGEALAGQAKAFSAAASLRRLNSAVECVPTQALTPATALDLVRRYDVVADCS  
DNVPTRYLVNDACVLAGRPLVSASALRFEGQITVYHYDGGPCYRCIFPQPPPAETVTNCA  
DGGVLGVVTGVLGCLQALEVLKIAAGLGPSYSGSLLLFDALRGHFRSIRLSRRLDCAAC  
GERPTVTDLLDYEAFCGSSATDKCRSLQLLSPEERVSVTDYKRLD SGAFHLLLDVRPQV  
EVDICRLPHALHIPLKHLERRDAESLKLKEAIWEEKQGTQEGAAPVIYVICKLGND SQK  
AVKILQSLSAAQELDPLTVRDVVGGLMAWAAKIDGTFPQY

>sp|Q86VD1|MORC1\_HUMAN MORC family CW-type zinc finger protein 1 OS=Homo sapiens GN=MORC1  
PE=2 SV=2

MDDRYPALQRAQLRLDFIHANSTTHSFLFGALAELLDNARDAGAERLDVFSVDNEKLQGG  
FMLCFLDDGCGMSPEEASDIIFYGRSKRLSTLKFIGQYGNLKGSGSMRIGKDFILFTK  
EETMTCVFFSQTFCEESLSEVVPMPSWLIRTRESVTDDPQKFAMELSIIYKSPFKTE  
AELMQQFDVIYKCGTLLVIYNLKLNLNGEPELDVKTDEDILMAGALEDFPARWSFRAY  
TSVLYFNPWMRIFIQAKRVKTKHLCYCLYRPRKYLVTSSFKGAFKDEVKKAEEAVKIAE  
SILKEAQIKVNQCDRTSLSSAKDVLQRALEDVEAKQKNLKEKQRELKTARTLSLFYGVNV  
ENRSQAGMFIYSNNRLIKMHEKVGSQLKLKSLGAGVVGIVNIPLEVMEPSHNKQEF LNV  
QEYNHLLKVMGQYL VQYCKDTGINNRNLTLFCNEFGYQNDIDVEKPLNSFYQRRQAMGI  
PFIIQCDLCLKWRVLPSSSTNYQEKEFFDIWICANNPNRLENSCHQVECLPSIPLGTMSTI  
SPSKNEKEKQLRESVIKYQNRLAEQQPQPQFIPVDEITVTSTCLTSAHKENTKTQKIRLL  
GDDLKHESLSSFELSASRRGQKRNIETDSDVEYISETKIMKKSMEEMNSQQQRIPVAL  
PENVKLAERSQRSQIANITTVWRAQPTGCLKNAQAASWEMKRKQSLNFVEECKVLTEDE  
NTSDSDIILVSDKSNTDVS LKQEKKEIPLLNQEKQELCNDVLAMKRSSSLPSWKSLLNVP  
MEDVNLSSGHIARVSVSGSCKVASSPASSQSTPVKETVRKLKSKLREILLYFFPEHQLPS  
ELEEPALSCELEQCPEQMKNKLKMCFNQIQNTYMVQYEKKIKRKLQSIYDSNTRGIHNE  
ISLGQCENKRKISEDKLNRIKLALLQLQLGGPEGDLEQTDTYLEALLKEDNLLFQN  
NLNKVTIDARHRLPLEKNEKTSN

>sp|Q9Y6X9|MORC2\_HUMAN MORC family CW-type zinc finger protein 2 OS=Homo sapiens GN=MORC2  
PE=1 SV=2

MAFTNYSSLNRAQLTFEYLHTNSTTHEFLFGALAEVDNARDADATRIDIYAERREDLRG  
GFMLCFLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNLKGSGSMRIGKDFILFTK  
KEDTMTCLFLSRTFHEEEGIDEVIVPLPTWNARTREPVTDNVEKFAIETELIYKSPFRT  
EEVMTQFMKIPGDSGTLV IIFNLKLMNNGEPELDIISNPRDIQMAETSPEGTKPERRSF  
RAYAAVLYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTRAEQEVKKA EHVAR  
IAEEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRREADVKKRIKEAKQRAL  
KEPKELNFVFGVNIHRDLGDMFIYNCSRLIKMYEKVGPQLEGGMACGGVGVVDVPYLV  
LEPTHNKQDFADAKEYRHLLRAMEGHLAQYWKDIAIAQRGIIKFWDEFGYLSANWNQPPS  
SELYKRRRAMEIPTTIQCDLCLKWRTL PFLQSSVEKDYPDTWVCSMNPDPEQDRCEASE  
QKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTTPIRSQADLKKLPLEVTTR  
PSTEPPVRRPQRPRSPPLPAVIRNAPSRPPSLPTRPASQPRKAPVISSTPKLPALAAARE  
EASTSRLLQPPEAPRKANTLVKTASRPAPLVQQLSPSLLPNSKSPREVPSPKVIKTPVV  
KKTESPIKLSPATPSRKRSVAVSDEEEVEEEAERRKERCKRGRFVVKEEKKDSNELSDSA

GEEDSADLKRAQDKGLHVEVRVNEWYTGRVTAVEVGKHVVRWKVKFDYVPTDTPRDR  
WVEKGSSEVDRLMKPPSPEHQSLDTQQEGGEEVGPVAQQAIAVAEPSTSECLRIEPTTA  
LSTNHETIDLLVQILRNCLRYFLPPSFPISKKQLSAMNSDELISFPLKEYFKQYEVGLQN  
LCNSYQSRADSRASEESLRTSERKLRETEEKLQKLRTNIVALLQKVQEDIDINTDDEL  
DAYIEDLITKGD

>sp|Q8TE76|MORC4\_HUMAN MORC family CW-type zinc finger protein 4 OS=Homo sapiens GN=MORC4  
PE=1 SV=2

MLLYRGAPAGPGAPGCGLARPGGGPQAFGIRLSTMSPRYLQSNSSSHTRPFSIAIALLDN  
AVDPDVSARTVFIDVEEVKNKSCLTFTDDGCGMTPHKLHRMLSFGFTDKVIKKSQCPIGV  
FGNGFKSGSMRLGKDALVFTKNGGTLTVGLLSQTYLECVQAQAVIVPIVPFNQNKMMII  
TEDSLPSLEAILNYSIFNRENDLLAQFDAIPGKKGTRVLIWNIRRNKNGKSELDFTDQY  
DILVSDFDTEEKMTGGVTSELPETEYSLRAFCGILYMKPRMKIFLRQKKVTTQMIAKSLA  
NVEYDTYKPTFTNKQVRITFGFSCKNSNQFGIMMYHNNRLIKSFEKVGCVKPTRGEGVG  
VIGVIECNFLKPAYNKQDFEYTKYRLTINALAQKLNAYWKEKTSQDNFETSTVARPIPK  
VPDQTVVQCDDECLWRKLPKGIDPSMLPARWFCYYNSHPKYRRCVPEEQELTDEDLCLS  
KAKKQEQTVEEKKKMPMENENHQVFSNPPKILTVQEMAGLNNKTIGYEGIHSPSVLPSSG  
EESRSPSLQLKPLDSSVLQFSSKYKWILGEEPVEKRRRLQNEMTTPSLDYSMPAPYRRVE  
APVAYPEGENSHDKSSSERSTPPYLFPEYPEASKNTGQNREVSILYPGAKDQRQGSLLPE  
ELEDQMPRLVAEESNRGSTTINKEEVNKGPFVAVVGVAKGVRDSGAPIQLIPFNREELAE  
RRKAVESWNPVPYSVASAAIPAAAIGEKARGYEESEGHNTPKLKNQRELEELKRTTEKLE  
RVLAERNLFQQKVEELEQERNHWQSEFKKVQHELVIYSTQEAEGLYWSKKHMGYRQAEFQ  
ILKAELERTKEEKQELKEKLKETETHLEMLQKAQVSYRTPEGDDLALAKLTRLIHVS  
YLLTSVLPHELEIREIGYDSEQVDGILYTVLEANHILD

>sp|Q5T089|MORN1\_HUMAN MORN repeat-containing protein 1 OS=Homo sapiens GN=MORN1 PE=2  
SV=2

MAAAGEGTPSSRGPRRDPPRRPPRNGYGVYVYPNSFFRYEGEWKAGRKHGHGKLLFKDGS  
YYEGAFVDGEITGEGRRHAWSGDTFSGQFVLGEPQGYGVMEYKAGGCYEGEVSHGMREG  
HGFLVDRDQGVYQGSFHDNKRHGPQMLFQNGDKYDGDWVRDRRQGHGVLRCADGSTYKG  
QWHSDFVSGLSMAHCSGVTTYGLWINGHPAEQATRIVILGPEVMEVAQGSFVSVNVQLL  
QDHGEIAKSESGRVLQISAGVRYVQLSAYSEVNFFKVDRDNQETLIQTPFGFECIPYPVS  
SPAAGVPGPRAAKGGAADVPLPRGDLEHLGALHGQEDTPGGLLARGHAPHCPCGACQRV  
EQGCAEFTDVLLGPPPPGYHPFLFLDSLHKKAGGRSRGGLHPRGTPPTAQEPGGSRPEG  
RATEEQAAAAHLGEYVLMIRDVTPPFLGRRLPPAFKHLRVVAKRAGQPPHVLEEGPEAS  
SSWQAAHSCTPEPPAPR

>sp|Q5VZ52|MORN5\_HUMAN MORN repeat-containing protein 5 OS=Homo sapiens GN=MORN5 PE=2  
SV=1

MEYTGSKYIGEYVDGRMEGKAKYILPTETIYVGEMKDMFHEGEGTLYFPSGSQYDAIWEN  
GLAIKGTYTFSDGLHYDEKNWHYCDGYDRRFYTEILNGLKPAGMAQLTNMDPPRKIPKGY  
YDCGDGFYNPVTRVVKDYRNRFLRNADDDEHEWITRTRCKG

>sp|P53985|MOT1\_HUMAN Monocarboxylate transporter 1 OS=Homo sapiens GN=SLC16A1 PE=1 SV=3

MPPAVGGPVGYTPPDGGGWAVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSW  
ISSIMLAVMYGGGPISSILVNKYGSRIVMIVGGCLSGCGLIAASFNTVQQLYVCIGVIG  
GLGLAFNLNPALTMIGKYFYKRRPLANGLAMAGSPVFLCTLAPLNQVFFGIFGWGSGFLI  
LGGLLLNCCVAGALMRPIGPKPTKAGDKSKASLEKAGKSGVKKDLHDANTDLIGRHPKQ

EKRVSFQTINQFLDLTLFTHRGLLYLSGNVIMFFGLFAPLVFLSSYGKSQHYSSEKSAF  
LLSILAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGFVCVYA  
GFFGFAFGWLSVLFETLMDLVGPQRFSsavGLVTIVECCPVLLGPPLLGRINDMYGDYK  
YTYWACGVVLIISGIYLFIMGINRYLLAKEQKANEQKESKEEETSIDVAGKPNEVTKA  
AESPDQKDDTGGPKKEESPV

>sp|P36021|MOT8\_HUMAN Monocarboxylate transporter 8 OS=Homo sapiens GN=SLC16A2 PE=1 SV=2

MALQSQASEEAKGPWQEQADQEQEPVGSPEPESEPEPEPEPEPVPPPEPQEPQPLPD  
PAPLPELEFESERVHEPEPTPTVETRGTARGFQPPEGFGWVVVFAATWCNGSIFGIHNS  
VGILYSMLLEEEKEKNRQVEFQAAWVGALAMGMIFFCSPIVSIFTDRLGCRITATAGAAV  
AFIGLHTSSFTSSLSRYFTYGILFGCGCSFAFQPSLVILGHYFQRRGLANGVVSAGSS  
IFSMSFPFLIRMLGDKIKLAQTFQVLSTFMFVLMLLSLTYRPLLSSQDTPSKRGVRTLH  
QRFLAQLRKYFNMRVFRQRTYRIWAFGIAAAALGYFVPYVHLMKYVEEEFSEIKETWVLL  
VCIGATSGLGRLVSGHISDSIPGLKKIYLQVLSFLLLGLSMMPILCRDFGGLIVVCLFL  
GLCDGFFITIMAPIAFELVGPMQASQAIGYLLGMMALPMIAGPPIAGLLRNCFGDYHVA  
YFAGVPPIIGAVILFFVPLMHQRMFKKEQRDSSKDKMLAPDPDPNGELLPGSPNPEEPI

>sp|P12872|MOTI\_HUMAN Promotilin OS=Homo sapiens GN=MLN PE=1 SV=1

MVSRKAVAALLVVHVAAMLASQTEAFVPIFTYQELQRMQEKERNKGQKSLSVWQRS  
GEE  
GPVDPAPPIREENEMIKLTAPLEIGMRMNSRQLEKYPATLEGLLEMLPQHA

>sp|Q2QL34|MP17L\_HUMAN Mpv17-like protein OS=Homo sapiens GN=MPV17L PE=1 SV=1

MAGWWPALSRARRHPWPTNVLLYGLSVSAGDALQQRLQGREANWRQTRRVATLVVTFHA  
NFNYVWLRLLERALPGRAPHALLAKLLCDQVVGAPIAVSAFYVGMSILQGKDDIFDLKQ  
KFWNTYLSGLMYWPFVQLTNFSLVPVQWRTAYAGVCGFLWATFICFSQQSGDGTFSKSAFT  
ILYTKGTSATEGYPKK

>sp|P52564|MP2K6\_HUMAN Dual specificity mitogen-activated protein kinase kinase 6 OS=Homo sapiens GN=MAP2K6 PE=1 SV=1

MSQSKGKRNPGKIPKEAFEQPTSSTPPRDLSKACISIGNQNFVKADDLEPIMELG  
RGAYGVVEKMRHVPSGQIMAVKRIRATVNSQEQKRLMDLDISMRTVDCPFTVTFYALF  
REGDVWICMELMDTSLDKFYKQVIDKGQTIPEDILGKIAVSIVKALEHLHSLSVIHRDV  
KPSNVLLINALGQVKMCDFGISGYLVDSVAKTIDAGCKPYMAPERINPELNQKGYSVKSDI  
WSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSQLPADKFSAEFVDFTSQCLKKNSK  
ERPTYPELMQHPFFTLHESKGTDVASFVKLILGD

>sp|O14733|MP2K7\_HUMAN Dual specificity mitogen-activated protein kinase kinase 7 OS=Homo sapiens GN=MAP2K7 PE=1 SV=2

MAASSLEQKLSRLEAKLKQENREARRRIDLNLDISPQRPRPTLQLPLANDGGSRSPSES  
SPQHPTPPARPRHMLGLPSTLFTPRSMESIEIDQKLQEIMKQTGYLTIGGQRYQAEINDL  
ENLGEMSGTCGQVWKMRFRKTGHVIAVKQMRRSGNKEENKRILMDLDVVLKSHDCPYIV  
QCFGTFITNTDVFIAELMGTCAEKLLKRMQGPPIPERILGKMTVAIVKALYYLKEKHGVI  
HRDVKPSNILLDERGQIKLCDFGISGRLVDSKAKTRSAGCAAYMAPERIDPPDPTKPDYD  
IRADVWSLGISLVELATGQFPYKNCKTDFEVLTKVLQEEPPLPGHMGFSGDFQSFVKDC  
LTKDHRKRPKYNKLEHSFIKRYETLEVDVASWFKDVMAKTESPRTSGVLSQPHLPFFR

>sp|A6NCE7|MP3B2\_HUMAN Microtubule-associated proteins 1A/1B light chain 3 beta 2 OS=Homo sapiens GN=MAP1LC3B2 PE=2 SV=1

MPSEKTFKQRRTFEQVEDVRLIREQHPTKIPVIERYKGEKQLPVLDKTKFLVPDHVNM  
SELIKIIRRRRLQLNANQAFLLVNGHSMVSVSTPISEVYESEKDEDGFLYMVCASQETFG

MKLSV

>sp|Q8N594|MPND\_HUMAN MPN domain-containing protein OS=Homo sapiens GN=MPND PE=1 SV=1  
MAAPEPLSPAGGAGEEAPEEDEDAAEDPERPNAGAGGGRSGGGSSVSGGGGGGAGA  
GGCGPGGALTRRAVTLRVLLKDALLEPGAGVLSIYYLGKKFLGDLQPDGRIMWQETGQT  
FNSPSAWATHCKKLVNPAKKS GCGWASVKYKGQKLDKYKATWLRHLQLHTPATAADESPA  
SEEEEEELLMEEEEEDVLAVGSAEDKSRRPLGKSPSEPAHPEATTPGKRVDISKIRVPVRY  
CMLGSRDLARNPHTLVEVTSFAAINKFQPFNVAVSSNVLFLLDFHSHLTRSEVVGYLGG  
WDVNSQMLTVLRAFPSCRSLGDAETAAAIEEEIYQSLFLRGLSLVGWYHSHPHSPALPSL  
QDIDAQMDYQLRLQGSSNGFQPCALLCSPYYSGNPGPESKISPFWVMPPEMLLVEFYK  
GSPDLVRLQEPWSQEHTYLDKLIKISLASRTPKQSLCHVLEQVCGVLKQGS

>sp|Q13368|MPP3\_HUMAN MAGUK p55 subfamily member 3 OS=Homo sapiens GN=MPP3 PE=1 SV=2  
MPVLSEDSGLHETLALLTSQLRPDSNHKEEMGFLRDVFSEKSLSYLMIHEKLRYYERQS  
PTPVLHSAVALAEDVMEELQAASVHSDERELLQLLSTPHLRVLMVHDTVAQKNFDPVLP  
PLPDNIDEDFDEESVKIVRLVKNKEPLGATIRRDEHSGAVVVARIMRGGADRSGLVHVG  
DELREVNGI AVLHKKRPDEISQILAQSGSITLKIIPATQEEDRLKESKVFMRALFHYNPR  
EDRAIPCQEAGLPFQRRQVLEVVSQDDPTWWQAKRVGDTNLRAGLIPSKGFQERRLSYRR  
AAGTLPSPQSLRKPYPDQPCDKETCDCEGYLKGHYVAGLRRSFRLGCRERLGGSGEGKMS  
SGAESPELLTYEEVARYQHQPGERPRLVVLIGSLGARLHELKQKVVAENPQHFGVAVPHT  
TRPRKSHEKEGVEYHFVSKQAFEADLHNNKFLEHGEYKENLYGTSLEAIQAVMAKNKVCL  
VDVEPEALKQLRTSEFKPYIIFVKPAIQEKRTPPMSPACEDTAAPFDEQQQEMAASAAF  
IDRHYGHLVDAVLVKEDLQGAYSQKLVLEKLSKDTWVPSVWR

>sp|Q8N3R9|MPP5\_HUMAN MAGUK p55 subfamily member 5 OS=Homo sapiens GN=MPP5 PE=1 SV=3  
MTTSHMNGHVTEESDSEVNVDLASPEEHQKHREMAVDCPGDLGTRMMPIRRSAQLERIR  
QQQEDMRRRREEEGKKQELDLNSSMRLLKLAQIPPKTGIDNPMFDTEEGIVLESPHYAVK  
ILEIEDLFSSLKHIQHTLVDSQSQEDISLLLQLVQNKDFQNAFKIHNAITVHMNKASPPF  
PLISNAQDLAQEVQTVLKPVHHKEGQELTALLNTPHIQALLLAHDKVAEQEMQLEPITDE  
RVYESIGQYGGETVKIVRIEKARDIPLGATVRNEMDSV IISRIVKGAAEKSGLLHEGDE  
VLEINGIEIRGKDVNEVFDLLSDMHGTLTFVLIPSQQIKPPPAKETVIHVKAHFDYDPSD  
DPYVPCRELGLSFQKGDILHVISQEDPNWWQAYREGDEDNQPLAGLVPGKSFQQQREAMK  
QTIEEDKEPEKSGKLWCAKKNKKRKKVLYNANKNDDYDNEEILTYEEMSLYHQPANRKR  
PIILIGPQNGQNELRQRLMNKEKDRFASAVPHTTRSRRDQEVAGRDYHFVSRQAFEADI  
AAGKFIEHGEFEKNLYGTSIDSVRQV INSGKICLLSLRTQSLKTLRNSDLKPYIIFIAPP  
SQERLRALLAKEGKNPKPEELREIIEKTREMEQNNGHYFDTAIVNSDLKAYQELLRLIN  
KLDTEPQWVPSTWLR

>sp|Q5T2T1|MPP7\_HUMAN MAGUK p55 subfamily member 7 OS=Homo sapiens GN=MPP7 PE=1 SV=1  
MPALSTGSGSDTGLYELLAALPAQLQPHVDSQEDLTFLWDMFGEKSLHSLVKIHEKLHYY  
EKQSPVPI LHGAALADDLAEELQNKPLNSEIRELLKLSKPNVKALLSVHDTVAQKNYD  
PVLPPMPEDIDDEEDSVKIIRLVKNREPLGATIKKDEQTGAIIVARIMRGGADRSGLIH  
VGDELREVNGIPVEDKRPEEIIQILAQSGGAITFKIIPGSKEETPSKEGKMFIKALFDYN  
PNEDKAIPCKEAGLSFKKGDILQIMSQDDATWWQAKHEADANPRAGLIPSKHFQERRLAL  
RRPEILVQPLKVSNRKSSGFRKSFRLSRKDKKTNKSMYECKKSDQYDTADVPTYEEVTPY  
RRQTNEKYRLVVLVGPVGVGLNELKRKLLISDTQHYGVTVPHTTRARRSQESDGVEYIFI  
SKHLFETDVQNNKFIEYGEYKNYYGTSIDSVRSVLAKNKVCLLDVQPHTVKHLRTLEFK  
PYVIFIKPPSIERLRRETRKNAKIISSRDDQGAAKPFTTEEDFQEMIKSAQIMESQYGHLLFD

KIIINDDLTVAFNELKTTFDKLETETHWVPVSWLHS

>sp|P20645|MPRD\_HUMAN Cation-dependent mannose-6-phosphate receptor OS=Homo sapiens  
GN=M6PR PE=1 SV=1

MFPFYSCWRTGLLLLLLAVAVRESWQTEETCDLVGEKGKESEKELALVKRLKPLFNKSF  
ESTVGQGSPTYIYIFRVCREAGNHTSGAGLVQINKSNGKETVVGRLNETHIFNGSNWIML  
IYKGGDEYDNHCGKEQRRRAVVMISCNRHTLADNFPVSEERGKVQDCFYLFEMDSSLACS  
PEISHLVSGSILLVTFASLVAVYVVGFLYQRLVVGAKGMEQFPHLAFWQDLGNLVADGC  
DFVCRSKPRNVPAAYRGGDDQLGEESEERDDHLLPM

>sp|Q9BWK5|MRI\_HUMAN Modulator of retrovirus infection homolog OS=Homo sapiens GN=MRI  
PE=1 SV=2

METLQSETKTRVLPSWLTAQVATKNVAPMKAPKMRMAAVPVAARLPATRTVYCMNEAE  
IVDVALGILIESRKQEKACEQPALAGADNPEHSPPCSVSPHTSSGSSSEEDSGKQALAP  
GLSPSQRPGSSSACSRSPEEEEEDVLKYVREIFFS

>sp|Q6IN84|MRM1\_HUMAN rRNA methyltransferase 1, mitochondrial OS=Homo sapiens GN=MRM1  
PE=1 SV=1

MALLSTVRGATWGRLVTRHFSHAARHGERPGGEELSRLLLDDLVPTRSRLLELFGMTPCLL  
ALQAARRSVARLLLQAGKAGLQKGRAELLRMAEARDIPVLRPRRQKLDTCRYQVHQGVC  
MEVSPLRPRPWREAGEASPGDDPQQLWLVDGIQDPRNFGAVLRSAHFLGVDKVITSRRN  
SCPLTPVVS KSSAGAMEVMDVFSTDDL TGLQTKAQQGWL VAGTVGCPSTED PQSSEIPI  
MSCLEFLWERPTLLVLGNEGSGLSQEVQASCQLLLTILPRRQLPPGLES LNVSVAAGILL  
HSICSQRKGFPTEGERRQLLQDPQEPSARSEGLSMAQHPGLSSGPEKERQNEG

>sp|Q9UI43|MRM2\_HUMAN rRNA methyltransferase 2, mitochondrial OS=Homo sapiens GN=MRM2  
PE=1 SV=1

MAGYKLKLCVSFQRQGFHTVGSRCCKNRTGAEHLWLTRHLRDPFVKA AKVESYRCRS AFKL  
LEVNERHQILRPLRVLDCAAPGAWSQVAVQKVNAAGTDPSSPVGV LGVDLLHIFPLE  
GATFLCPADVTDPTRSQRILEVLPGRRADVILSDMAPNATGFRDL DHDRLISLCLTLLSV  
TPDILQPGGTFLCKTWAGSQSRRLQRRLTEEFQNVRI IKPEASRKESSEVYFLATQYHGR  
KGTVKQ

>sp|Q9HC36|MRM3\_HUMAN rRNA methyltransferase 3, mitochondrial OS=Homo sapiens GN=MRM3  
PE=1 SV=2

MAALVRPARFVVRPLLQVVQAWDL DARRWVRALRRSPVKVVFPSGEVVEQKRAPGKQPRK  
APSEASAEQREKQPLEESASRAPSTWEESGLRYDKAYPGDRRLSSVMTIVKSRPFREKQ  
GKILLEGRRLISDALKAGAVPKMFFFSRLEYLKELPVDKLGVS LIKVKFEDIKDWSDLV  
TPQGIMGIFAKPDHV KMTYPKTQLQHSLPLLLICDNL RDPGNLGTILRSAAGAGCSKVLL  
TKGCVD AWE PKVL RAGMGAHFRMPI INNLEWETVPNYLPPDTRVYVADNCGLYAQAEMSN  
KASDHGWVCDQRVMKFHKYEEEEEDVETGASQDWLPHVEVQSYDS DWTEAPAAV VIGGETY  
GVSLES LQAESTGGKRL IPVVPGVDSLNSAMAASILLFEGKRQLRGRAEDLSRDRSYH

>sp|Q9HD23|MRS2\_HUMAN Magnesium transporter MRS2 homolog, mitochondrial OS=Homo sapiens  
GN=MRS2 PE=1 SV=1

MECLRSLPCLLPRMRLPRRTL CALALDVT SVGPPVAACGRANLIGRSRAAQLCGPDRL  
RVAGEVHRFRTSDVSQATLASVAPVFTVTKFDKQGNVTSFERKKTELYQELGLQARDLRF  
QHVMSITVRNNRIIMRMEYLKAVITPECLLILDYRN LNLEQWLFRELPSQLSGEGQLVTY  
PLPFEFRAIEALLQYWINTLQGKLSILQPLILETLDALVDPKHSSVDRSKLHILLQNGKS  
LSELETDIKIFKESILEILDEEELLEELCVSKWSDPQVFEKSSAGIDHAEEMELLLENYY

RLADDLSNAARELRLVIDDSQSIIFINLDSHRNVMRLNLQLTMGTFSLSLFGLMGVAFG  
MNLESSLEEDHRIFWLITGIMFMGSGLIWRRLLSFLGRQLEAPLPPMMASLPKKTLLADR  
SMELKNSLRDLGLSGRSILTNR

>sp|B2RBV5|MRUPP\_HUMAN Putative MORF4 family-associated protein 1-like protein UP  
OS=Homo sapiens PE=1 SV=1

MRPVDADAEAREPREEPGSPSPAPRAGRENLASLERERARAHWRARRKLEIQSLDAIK  
SEVEAEERGARAPAPRPAEAEERVARLCAEAERKAAEAARMGRRIVELHQRIAGCECC

>sp|O43347|MSI1H\_HUMAN RNA-binding protein Musashi homolog 1 OS=Homo sapiens GN=MSI1 PE=1  
SV=1

METDAPQPGLASPDSPHDPCKMFIGGLSWQTTQEGLREYFGQFGEVKECLVMRDPLTKRS  
RGFGFVTFMDQAGVDKVLQAQRHELDSKTIDPKVAFPRRAQPKMVTRTKKIFVGGLSVNT  
TVEDVKQYFEQFGKVDDAMLMFDKTTNRHRGFGFVTFESEDIVEKVCEIHFHEINNMVE  
CKKAQPKVMSPTGSARGRSRVMPYGMADFMLGIGMLGYPGFQATTYASRSYTGAPGYT  
YQFPEFRVERTPLPSAPVLPETAIPLTAYGPMAAAAAAIVRGTGSHPTMAPPGST  
PSRTGGFLGTTSPGPMAELYGAANQDSGVSSYISAASPAPSTGFGHSLGGPLIATAFTNG  
YH

>sp|075425|MSPD3\_HUMAN Motile sperm domain-containing protein 3 OS=Homo sapiens GN=MOSPD3  
PE=2 SV=1

MRRGAPQDQELVGPGPPGRGSRGAPPLGPVVPVLVFPDLVFRADQSRGPRQLLTLYNP  
TGTALRFRVLCTAPAKYTVFDAEGYVKPQSCIDIVIRHVAPIPSHYDVQDRFRIELSEEG  
AEGRVVGKRDITSILRAPAYPLELQGGQDPAPRPGPPAGTPPTARHFQEHPRQQLATSS  
FLLFLLTGIVSVAFLLLPLPDELGSQLPQVLHVSLGQKLVAAYVLGLTMVFLRT

>sp|Q9UJ68|MSRA\_HUMAN Mitochondrial peptide methionine sulfoxide reductase OS=Homo  
sapiens GN=MSRA PE=1 SV=1

MLSATRRACQLLLLHSLFPVPRMGNSASNIVSPQEALPGRKEQTPVAAKHHVNGNRTVEP  
FPEGTQMAVFGMGCFWGAERKFWVLKGVYSTQVGFAGGYTSNPTYKEVCSEKTGHAEVVR  
VVYQPEHMSFEELKVFWENHDPTQGMRGNDHGTQYRSAIYPTSQKQMEAAALSSKENYQ  
KVLSEHGFGPITTDIREGQTFYYAEDYHQYLSKNPNGYCGLGGTGVSCPVGIKK

>sp|P04733|MT1F\_HUMAN Metallothionein-1F OS=Homo sapiens GN=MT1F PE=1 SV=1

MDPNCSCAAGVSTCAGSCKCKECKCTSCKKSCCSCCPVGCCKAQCVCCKGASEKSCC  
D

>sp|P80294|MT1H\_HUMAN Metallothionein-1H OS=Homo sapiens GN=MT1H PE=1 SV=1

MDPNCSEAGGSCACAGSCKCKCKCTSCKKSCCSCPLGCAKCAQGCICKGASEKSCC  
A

>sp|Q96AZ1|MT21B\_HUMAN Protein-lysine methyltransferase METTL21B OS=Homo sapiens  
GN=METTL21B PE=1 SV=1

MADPGDPPESESESVFPREVGLFADSYSEKSQFCFCGHVLTITQNFGRSLGVAARVWDA  
LSLCNYFESQNVDFRGKKVIELGAGTGIVGILAALQGGDVTITDLPLALEQIQGNVQANV  
PAGGQAQVRALSWGIDHHVFPANYDLVLGADIVYLEPTFPLLLGTLQHLCPHGTIYLAS  
KMRKEHGTFEFQHLLPQHFLQLELAQRDEDENVNIYRARHREPRPA

>sp|A6NDL7|MT21E\_HUMAN Putative methyltransferase-like protein 21E pseudogene OS=Homo  
sapiens GN=METTL21EP PE=5 SV=2

MIHFNLETQLTPLASFQEIIMKTSIYHLPFSHYLMDSEAQEDTREAYDDKQVTEIMAR  
CFIPTLITTSWESFHFHIGHEIRITEAMDCYGAVVWPSALVLCYFLETNAKQYNMVDKNV

IEIGAGTGLVSIVASLLGAHVTATDLPPELLGNLQYNISRNTKMKSKHLPQVKELSWGVAL  
DTNFPRSSNNFDYILAADVYAHFPLEELLITFDHLCKETTIILWAMKFRLEKENKFVDR  
FKELFDLEEISSFPSLNILKYAVKKNRRSV

>sp|Q96E29|MTEF3\_HUMAN Transcription termination factor 3, mitochondrial OS=Homo sapiens  
GN=MTERF3 PE=1 SV=2

MALSAQQIPRWFNSVKLRSLINAAQLTKRFTRPARTLLHGFSAPQISSDNCFLQWGFKT  
YRTSSLWNSSQSTSSSSQENNSAQSSLLPSMNEQSQKTQNISSFDSELFLEELDELPLS  
PMQPISEEEAIQIIADPPLPPASFTLRDYVDHSETLQKLVLGVDSLKIEKHPEAANLLL  
RLDFEKDIKQMLLFLKDVGIENQLGAFLTKNHAIFSEDLENLKTTRVAYLHKNFSKADV  
AQMVRKAPFLLNFSVERLDNRLGFFQKELELSVKKTRDLVVRLPRLTGSLEPVKENMKV  
YRLELGFKHNEIQHMITRIPKMLTANKMKLTETFDVHNVM SIPHHIIVKFPQVFNTRLF  
KVKERHFLTYLGRAQYDPAKPNYISLDKLV SIPDEIFCEEIAKASVQDFEKLKTL

>sp|Q7Z6M4|MTEF4\_HUMAN Transcription termination factor 4, mitochondrial OS=Homo sapiens  
GN=MTERF4 PE=1 SV=3

MAAFGRQVLDWHRLIPLTWACMARQTPHLGEQRRTTASLLRKLTTASNGGVIEELSCVRS  
NNYVQEPECCRRNLVQCLLEKQGTVPVQGSLELERVMSSLLDMGFSNAHINELLSVRRGAS  
LQQLLDIISEFILLGNPEPVCVVLKSPQLLKLPIQMQRKRSSYLQKLGLGEGKLKRVL  
YCCPEIFTMRQQDINDTVRLLKEKCLFTVQQVTKILHSCPSVLREDLGQLEYKFQYAYFR  
MGIKHPDIVKSEYLQYSLTKIKQRHIYLERLGRYQTPDKKGQTQIPNPLKDI LRVSEAE  
FLARTACTSVEEFQVFKLLAREEEEESESSTDDKRASLDEDEDDDEEDNDEDDNDEDD  
DDEDDDEADNDEDEDDDEEE

>sp|Q9Y2Z2|MT01\_HUMAN Protein MT01 homolog, mitochondrial OS=Homo sapiens GN=MT01 PE=1  
SV=2

MFYFRGCCRWVAVSFTKQFPLARLSSDSAAPRTPHFDVIVIGGGHAGTEAATAAARCGS  
RTLLLTHRVDITIGMSCNPSFGGIGKGLMREVDALDGLCSRICDQSGVHYKVLNRRKGP  
AVWGLRAQIDRKLKQNMKEILNTPLLTVQEGAVEDLILTEPEPEHTGKCRVSGVVLVD  
GSTVYAESVILTTGTFLRGMIVIGLETHPAGRLGDQPSIGLAQTLEKLGFVVGRKLTGTP  
PRIAKESINFSILNKHIPDNPSIPFSFTNETVWIKPEDQLPCYLTHTNPRVDEIVLKNLH  
LNSHVKETTRGPRYCPSIESKVLRFPNRLHQVWLEPEGMDSDLIYPQGLSMTLPAELQEK  
MITCIRGLEKAKVIQPDGVLLLLPRMECNGAISAHNLPLPGYGVQYDYLDPQITPSLE  
THLVQRLFFAGQINGTTGYEAAAQGVIAGINASLRVSRKPPFVVSRTGYIGVLIDDLT  
TLGTSEPYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQRYERACWMKSLEEGL  
SVLKSIEFLSSKWKLIPEASISTSRSLPVRALDVLKYEEVDMSLAKAVPEPLKKYTKC  
RELAERLKIEATYESVLFHQLQEIKGVQQDEALQLPKDLTYLTIRDVSLSHEVREKLHFS  
RPQTIGAASRIPGVTAAIINLLRFVKTQRRQSAMNESSKTDQYLCADRLQEREL

>sp|P49286|MTR1B\_HUMAN Melatonin receptor type 1B OS=Homo sapiens GN=MTNR1B PE=1 SV=1

MSENGSFANCCEAGGWAVRPGWSGAGSARPSRTPRPPWVAPALSAVLIVTTAVDVVGNLL  
VILSVLRNRKLRNAGNLFLVSLALADLVVAFYYPYPLILVAIFYDGWALGEEHCKASAFVM  
GLSVIGSVFNITAIINRYCYICHSMAYHRIYRRWHTPLHICLIWLLTVVALLPNFFVGS  
LEYDPRIYSCTFIQTASTQYTAAVVVVIFLLPIAVVSFCYLRIWVLVLQARRKAKPESRL  
CLKPSDLRSFLTMFVVFVIFAICWAPLNCIGLAVAINPQEMAPQIPEGLFVTSYLLAYFN  
SCLNAIVYGLLNQNFREYKRILLALWNP RHC IQDASKGSHAEGLSAPPIIGVQH QAD  
AL

>sp|Q96DR8|MUC11\_HUMAN Mucin-like protein 1 OS=Homo sapiens GN=MUC11 PE=1 SV=1



MKFLAVLVLLGVSI FLVSAQNPTTAAPADTYPATGPADDEAPDAETTAATTATTAAPTT  
ATTAASTARKDIPVLPKWVGDLNPNRVC

>sp|Q9NYP9|MS18A\_HUMAN Protein Mis18-alpha OS=Homo sapiens GN=MIS18A PE=1 SV=1

MAGVRSRLRCSRGCAGGCECGDKGKCSDSLKGRLSEDSSRHQLLQKWASMWSSMSSEDAS  
VADMERAAQLEEEEEAAEERPLVFLCSGCRRPLGDSLWVASQEDTNCILLRCVSCNVSD  
KEQKLSKREKENGCVLETLCCAGCSLNLGYVYRCTPKNLDYKRDLFCLSVEAIESYVLGS  
SEKQIVSEDKELFNLESRVEIEKSLTQMEDVLKALQMKLWEAESKLSFATCKS

>sp|O43482|MS18B\_HUMAN Protein Mis18-beta OS=Homo sapiens GN=OIP5 PE=1 SV=2

MAAQPLRHRSCATPPRGDFCGGTERAIDQASFTTSMEDWTQVVKGSPLGPAGLGAEPP  
AAGPQLPSWLQPERCAVFQCAQCHAVLADSVHLAWDLRSRLGAVVFSRVTNVLEAPFL  
VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV  
NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN

>sp|Q96HJ5|MS4A3\_HUMAN Membrane-spanning 4-domains subfamily A member 3 OS=Homo sapiens  
GN=MS4A3 PE=1 SV=1

MASHEVDNAELGSASAHGTPGSEAGPEELNTSVYQPIDGSPDYQKAKLQVLGAIQILNAA  
MILALGVFLGSLQYPYHFQKHFFFTFYTGYPYIWGAVFFCSSGTLVAVAGIKPRTWIQN  
SFGMNIASATIALVGTAFSLNIAVNIQSLRSCHSSSESPDLNMGSIISNGMVSLLIL  
TLLELCVTISTIAMWCNANCCNSREEISSPPNSV

>sp|Q9GZW8|MS4A7\_HUMAN Membrane-spanning 4-domains subfamily A member 7 OS=Homo sapiens  
GN=MS4A7 PE=2 SV=1

MLLQSQTMGVSHSFTPKGITIPQREKPGHMYQNEDYLQNLPTETTTLVLTGTVQILCCLLIS  
SLGAILVFAPYPSHFNPASTTLMMSGYPFLGALCFGITGSLSIISGKQSTKPFDLSSLTS  
NAVSSVTAGAGLFLADSMVALRTASQHCSEMDYLSSLPYSEYYYPIYEIKDCLLTSVS  
LTGVLVVMLIFTVLELLLAAYSSVFWWKQLYSNPNPGSSFSSTQSDHIQQVKKSSRSWI

>sp|Q6ZTZ1|MSD1\_HUMAN Myb/SANT-like DNA-binding domain-containing protein 1 OS=Homo  
sapiens GN=MSANTD1 PE=2 SV=2

MVRGAGPGPSLSALSHTGASGMAAAEGPGYLVSPQAEKHRRARNWTDAMRGLMLVWEE  
FFDELKQTKRNAKYEKMAKLFEMTGERRLGEEIKIKITNMTFQYRKLKCMDSESAPP  
DWPYYLAIDGILAKVPESCDGKLPSQPPGPSTSQTEASLSPPAKSTPLYFPYNQCSYEG  
RFEDDRSDSSSSLSLKFRSEERPVKRKVQSCHLQKKQLRLLEAMVEEQRRLSRAVEET  
CREVRRVLDQQHILQVQSLQLQERMMSLLERIITKSSV

>sp|Q96H12|MSD3\_HUMAN Myb/SANT-like DNA-binding domain-containing protein 3 OS=Homo  
sapiens GN=MSANTD3 PE=1 SV=1

MQNNEIIKPAKYFSELEKSILLALVEKYKYVLECKSDARTIALKQRTWQALAHEYNSQP  
SVSLRDFKQLKKCWENIKARTKKIMAHERRKVKRSVSPLLSTHVLGKEKIASMLPEQLY  
FLQSPPEEEPEYHPDASAQESFAVSNRELCDEKEFIHFPVCEGTSQPEPSCSAVRITAN  
KNYRSKTSQEGALKKMHEEEHHQMSILQLQLIQMNEVHVAKIQQIERECEMAEEHRIK  
MEVLNKKKMYWERKLQFTKEWPVSSFNRPFNSP

>sp|O43196|MSH5\_HUMAN MutS protein homolog 5 OS=Homo sapiens GN=MSH5 PE=1 SV=1

MASLGANPRRTPGPRGAASSGFSPAPVPGPREAEEEEVEEEELAEIHLCLVWNSGY  
LGIAYYDTSSTIHFPDAPDHESLKLQRVLDEINPQSVVTSKQDENMTRFLGKLASQ  
EHREPKRPEIIFLPSVDFGLEISKQRLLSGNYSFIPDAMTATEKILFLSSIIPFDCLLTV  
RALGGLLKFLGRRRIGVELEDYNSVPILGFKKFMLTHLVNIDQDTYSVLQIFKSESHPS  
VYKVASGLKEGLSLFGILNRCHCKWGEKLLRLWFTRPTHDLGELSSRLDVIQFFLLPQNL

DMAQMLHRLLGHIKNVPLILKRMKLSHTKVSQWVLYKTVYSALGLRDACRSLPQSIQLF  
RDIAQEFSDDLHHIASLIGKVDFEGSLAENRFTVLPNIDPEIDEKKRRMLGLPSFLTVEV  
ARKELENLDSRIPSCSVIYIPLIGFLLSIPRLPSMVEASDFEINGLDFMFLSEEKLYRS  
ARTKELDALLGDLHCEIRDQETLLMYQLQCQVLARA AVLTRVLDLASRLDVLLALASAAR  
DYGYSRPRYSPQVLGVRIQNGRHPLMELCARTFVPNSTECGGDKGRVKVITGPNSSGKSI  
YLKQVGLITFMALVGSFVPAEEAEIGAVDAIFTRIHSCEISLGLSTFMIDLNQVAKAVN  
NATAQSLVLIDFEGKGTNTVDGLALLAAVLRHWLARGPTCPHIFVATNFLSLVQLQLLPQ  
GPLVQYLTMETCEDGNDLVFFYQVCEGVAKASHASHTAAQAGLPDKLVARGKEVSDLIRS  
GKPIKPVKDLLKKNQMENCQTLVDKFMKLDLEDPNLDLNVFMSQEVLPAAATSIL

>sp|P52701|MSH6\_HUMAN DNA mismatch repair protein Msh6 OS=Homo sapiens GN=MSH6 PE=1 SV=2

MSRQSTLYSFFPKSPALSDANKASARASREGGAAAAPGASPSPGDAAWSEAGPGRPL  
ARSASPPKAKNLNGGLRRSVAPAAPTSCDFSPGDLVWAKMEGYPPWVCLVYNHPDGTFI  
REKGKSVRVHVQFFDDSPTRGWVSKRLLKPYTGSKSKEAQKGGHFYSAPKPEILRAMQRAD  
EALNKDKIKRLELAVCDEPSEPEEEEEMEVGTYYVTDKSEEDNEIESEEEVQPKTQGSRR  
SSRQIKKRRVISDSSEDIGGSDVEFKPDTKEEGSSDEISSGVGDSEGLNSPVKVARKR  
KRMVTGNGSLKRKSSRKETPSATKQATSISSETKNTLRAFSAPQNSQAHVSGGGDDSS  
RPTVWYHETLEWLKEEKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQN  
FDLVICYKVGKFYELYHMDALIGVSELGLVFMKGNWAHSGFPEIAFGRYSDSLVQKGYKV  
ARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQYTSVLEGDPSENYSKYLL  
SLKEKEEDSSGHTRAYGVCVFDTSLGKFFIGQFSDDRHCSRFTLVAHYPPVQVLFKGN  
LSKETKITLSSSLCSLQEGLIPGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLK  
GMTSESDSIGLTPGEKSELALSALGGCVFYLLKCLIDQELLSMANFEEYIPLDSDTVSTT  
RSGAIFTKAYQRMVLDAVTLNLEIFLNGTNGSTEGTLLEVRDTCHTPFGKRLKQWLCA  
PLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKIHNVGSPKLSQNHPS  
RAIMYEETTYSKKKIIDLFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG  
RFPDLTVELNRWDATFDHEKARKTGLITPKAGFSDYDQALADIRENEQSLLEYLEKQRN  
RIGCRTIVYWGIGRNRYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLIN  
AEERRDVSLKDCMRRLFYNFKNYKDWQSAVECIAVL DVLLCLANYSRGGDGPMCRPVIL  
LPEDTPPFLELKGRHPCITKTFFGDDFIPNDILIGCEEEQENGKAYCVLVTGPNMGGK  
STLMRQAGLLAVMAQMGCVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI  
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKCRTLFSTHYHSLVEDYSQNV  
AVRLGHMACMVENECEDPSQETITFLYKFIKGACPKSYGFNAARLANLPEEVIQKGHRKA  
REFEKMNQSLRLFREVCLASERSTVDAEAVHKLLTLIKEL

>sp|P21757|MSRE\_HUMAN Macrophage scavenger receptor types I and II OS=Homo sapiens GN=MSR1  
PE=1 SV=1

MEQWDHFNQQEDTSCSESVKFDARSMTALLPPNPKNSPSLQEKLSFKAALIALYLLV  
FAVLIPLIGIVAAQLLKWETKNCSVSSTNANDITQSLTGKNDSEEMRFQEVFMEHMSN  
MEKRIQHILDMEANLMDTEHFQNFSTTDQRFNDILLQLSTLFSVQGHGNAIDEISKSL  
ISLNTTLLDLQLNIENLNGKIQENTFKQQEEISKLEERVYNVSAEIMAMKEEQVHLEQEI  
KGEVKVLNNITNDLRKLDWEHSQTLRNITLIQPPGPPGEGKDRGPTGESGPRGFPPIG  
PPGLKGDRAIGFPGSRGLPGYAGRPGNSGPKGQKGEKSGNTLTPFTKVRLVGGSGPHE  
GRVEILHSGQWGTICDDRWEVRVGQVVCRLGYPGVQAVHKAHFGQGTGPIWLNEVFCF  
GRESSIEECKIRQWGTRACSHSEDAGVTCTL

>sp|Q86U44|MTA70\_HUMAN N6-adenosine-methyltransferase 70 kDa subunit OS=Homo sapiens  
GN=METTL3 PE=1 SV=2

MSDTWSSIQAHHKQLDSLRLRQRRRKQDSGHLDLRNPEAALSPTFRSDSPVPTAPTSGG  
PKPSTASAVPELATDPELEKKLLHHLSDLALTLPTDAVSICLAISTPDAPATQDGVESLL  
QKFAAQELIEVKRGLLQDDAHPTLVITYADHSKLSAMMGAVAEKKGPGEVAGTVTGQKRRA  
EQDSTTVAAFASSLVSGLNSSASEPAKEPAKKSARKHAASDVLEIESLLNQSTKEQQSK  
KVSQEILELLNTTTAKEQSIVEKFRSRGRAQVQEFCDYGTKEECMKASDADRPCRKLHFR  
RIINKHTDESLGDCSFLNTCFHMDTCKYVHYEIDACMDSEAPGSKDHTPSQELALTQSVG  
GDSSADRLFPQWICCDIRYLDVSIKGFVVMADPPWDIHMELPYGTLTDDMRRLNIP  
VLQDDGFLFLVWTGRAMELGRECLNLWGYERVDEIIWVKTNQLQRIIRTGRTGHWLNHGK  
EHCLVGKGNPQGFNQGLDCDIVAEVRSTSHKPDEIYGMIERLSPGTRKIELFGRPHNV  
QPNWITLGNQLDGIHLDDPDVVARFKQRYPDGIISKPKNL

>sp|Q9NZJ7|MTCH1\_HUMAN Mitochondrial carrier homolog 1 OS=Homo sapiens GN=MTCH1 PE=1 SV=1

MGASDPEVAPWARGGAAGMAGAGAGAGARGGAAAGVEARARDPPTAHRAHPRHPRPAAQP  
SARRMDGGSGGLSGDNAPTTEALFVALGAGVTALSHPLLYVKLLIQVGHEPMPPTLTGN  
VLGRKVLVLPFFTYAKYIVQVDGKIGLFRGLSPRLMSNALSTVTRGSMKKVFPPEIEQ  
VSNKDDMKTSLKKVKVETSYEMMMQCVSRMLAHPLHVISMRCMVQFVGREAKYSGVLSSI  
GKIFKEEGLLGFFVGLIPHLLGDVVFLWGCNLLAHFINAYLVDDSVSDTPGGLGNDQNP  
SQFSQALAIRSYTKFVMGIAVSMLTYPFLLVGDLMAVNCCGLQAGLPPYSPVFKSWIHCW  
KYL SVQGQLFRGSSLLFRRVSSGSCFALE

>sp|Q15390|MTFR1\_HUMAN Mitochondrial fission regulator 1 OS=Homo sapiens GN=MTFR1 PE=1  
SV=2

MLGWIKRLIRMVFQQVGVSMQSVLWSRKPYGSSRSIVRKIGTNLSLIQCPRVQFQINSHA  
TEWSPSHPGEDAVASFADVGVWAKEEGECSARLRTEVRSRPPLQDDLLFFEKAPSRQISL  
PDLSQEEPQLKTPALANEEALQKICALENELAAALRAQIAKIVTQQEQQLTAGDLDDSTF  
GTIPHPPPPPPPPLPPPALGLHQSTSAVDL IKERREKRANAGKTLVKNNPKKPEMPNMLE  
ILKEMNSVKLRSVKRSEQDVKPKPVDATDPAALIAEALKKKFAYRYRSDSQDEVEKGIPK  
SESEATSERVLFGPHMLKPTGKMKALIENVSDS

>sp|Q2M296|MTHSD\_HUMAN Methenyltetrahydrofolate synthase domain-containing protein  
OS=Homo sapiens GN=MTHFSD PE=1 SV=2

MEPRAGVSKQDIREQIWGYMESQNLADFP RPVHHRI PNFKGSYLACQNIKDLDFARTQ  
EVKVPDPKPLEGVRLLVLSKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVR  
NYSVPIGLDSRVLVDLVVVGSAVSEKGRIGKGEYADLEYAMMVSMGAVSKETPVVTI  
VHDCQVVDIPEELVEEHDTVDYILTPTRV IATGCKRPKPMGITWFKISLEMEKIPILR  
SLRAREQQAGKDVTLQGEHQHLP EPGCQQT VPLSVGRPPDTPGPETNSMEAAPGSPPGE  
GAPLAADVVG NLPGDARVSDLKRALRELGSVPLRLTWQGP RRRRAFLHYPDSAAAQQA VS  
CLQGLRLGTDTLRLVALARQQRDK

>sp|Q13614|MTMR2\_HUMAN Myotubularin-related protein 2 OS=Homo sapiens GN=MTMR2 PE=1 SV=4

MEKSSSCESLGSQAAAAAPPSVDSLSSASTSHSENSVHTKSASVSSDSIST SADNFSPD  
LRVLRESNKLAEME EPPLLPGENIKDMAKDVTYICPFTGAVRGTLTVTNRYLYFKSMERD  
PPFVLDA SLGVINRVEKIGGASSRGENSYGLETVC KDIRNLRFAHKPEGRTRRSIFENLM  
KYAFPVSNLPLFAFEYKEVFENGWKLYDPLLEYRRQGIPNESWRITKINERYELCDTY  
PALLVVPANIPDEELKRVASFRSRGRIPVLSWIHPESQATITRCSQPMVGVS GKRSKEDE  
KYLQAIMDSNAQSHKIFIDARPSVNAVANKAKGGGYESEDAYQNAELVFLDIHNIHVMR

ESLRKLKEIVYPNIEETHWLSNLESTHWLEHIKLILAGALRIADKVESGKTSVVVHCSDG  
WDRTAQLTSLAMLMLDGYRTIRGFEVLVEKEWLSFGHRFQLRVGHGDKNHADADRSPVF  
LQFIDCVWQMTRQFPTAFEFNEYFLITILDHLYSCLFGTFLCNSEQQRGKENLPKRTVSL  
WSYINSQLEDFTNPLYGSYSNHVLYPVASMRHLELVWGYIIRWNPRMKPQEPHNRKEL  
LAKRAELQKKVEELQREISNRSTSSSERASSPAQCVTPVQTVV

>sp|A4FU01|MTMRB\_HUMAN Myotubularin-related protein 11 OS=Homo sapiens GN=MTMR11 PE=2  
SV=2

MWWGGRGQSFNIAPQKEEPMGSVQENRMPEPRSRQPSSCLASRCLPGEQILAWAPGVRK  
GLEPELSGTLICTNFRVTFQPCGWQWNQDTPLNSEYDFALVNIGRLEAVSGLSRVQLLRP  
GSLHKFIPEEILIHGRDFRLLRVGFEAGGLEPQAFQVTMAIVQARAQSNQAQQYSGITLS  
KAGQSGSRKPIPLMETAEDWETERKKQAARGWRVSTVNERFDVATSLPRYFWVPNRIL  
DSEVRRAFGHFHQGRGPRLSWHPGGSDDLRCGGFYTASDPNKEDIRAVELMLQAGHSDV  
VLVDTMDELPSLADVQLAHLRLRALCLPDSSVAEDKWLSALEGTRWLDYVRACLRKASDI  
SVLVTSRVRVSVILQERGDRDLNGLSSLVQLLSAPEARTLFGFQSLVQREWVAAGHPFLT  
RLGGTGASEEAPVFLFLDCVWQLLQQFPADFEFSEFFLLALHDSVRVPDTLTFLRNTPW  
ERGKQSGQLNSYTQVYTPGYSQPAGNSFNLQLSVWDWDLRYNAQILQFQNPQYDPEHC  
PDSWLP RPQPSFMVPGPPSSVWLFSRGALTPLNQLCPWRDPSLLAVSSRWLPRAISSE  
SLADQEWGLPSHWGACPLPPGLLLPGYLGPIRLWRRCYLRGRPEVQMGLSAPTISGLQD  
ELSHLQELLRKWTPRISPEDHSKKRDPHTIILNPTEIAGILKGRAEGDLG

>sp|Q969V5|MUL1\_HUMAN Mitochondrial ubiquitin ligase activator of NFKB 1 OS=Homo sapiens  
GN=MUL1 PE=1 SV=1

MESGGRPSLCQFILLGTTSVVTAALYSVYRQKARVSQELKGAKKVHLGEDLKSILSEAPG  
KCPYAVIEGAVRSVKETLNSQFVENCKGVIQRLTLQEHKMVWNRTHLWNDCSKI IHQR  
TNTVPFDLVPHEGDVDVAVRVLKLPLDSVDLGLTVEYKHFPSIQSFTDVIGHYISGERPK  
GIQETEEMLKVGATLTGVGELVDNNSVRLQPPKQGMYYLSSQDFDSSLQRQESSVRLW  
KVLALVFGFATCATLFFILRKQYLQRQERLRLKMQEEFQEHEAQLLSRAKPEDRESLKS  
ACVVCLSSFKSCVFLECGHVCCTECYRALPEPKKCPICRQAITRVIPLYS

>sp|Q5BKX8|MURC\_HUMAN Muscle-related coiled-coil protein OS=Homo sapiens GN=MURC PE=1  
SV=2

MEHNGSASNADKIHQNRLSSVTEDEDQDAALTIVTVLDKVASIVDSVQASQKRIEERHRE  
MENAISVQIDLLKLSQSHSNTGHIINKLFETRKVSAAHKDVKARVEKQQIHVKKVEVK  
QEEIMKKNKFRVIFQEKFRCPSTLSVVKDRNLTENQEEDDDDFDPPVDLSSDEEYVE  
ESRSARLRKSGKEHIDNIKAFSKENMQKTRQNLDKKVNRI RTRIVTPERRERLRQSGER  
LRQSGERLRQSGERFKKISNAAPSKEAFKMRSRLRKGKDRTVAEGECA REMGVDIIARS  
ESLGPISELYSDELSEPEHEAARPVYPPHEGREIPTPEPLKVTFKSQVKVEDDESLLDL  
KHSS

>sp|Q8NEH6|MNS1\_HUMAN Meiosis-specific nuclear structural protein 1 OS=Homo sapiens  
GN=MNS1 PE=2 SV=2

MGSKRRNLSCSERHQKLVDENYCKKLHVQALKNVNSQIRNQMVQNENDNRVQRKQFLRLL  
QNEQFELDMEEAIQKAEENKRLKELQLKQEEKLAMELAKLKHESLKDEKMRQQVRENSIE  
LRELEKKLKAAYMNKERAQIAEKDAIKYEQMKRDAEIAKTMMEEHKRIIKEENAAEDKR  
NKAKAQYYLDLEKQLEEQEKKKQEAYEQLLKEKLMIDEIVRKIYEEDQLEKQQKLEKMNA  
MRRYIEEFQKEQALWRKKKREEMEEENRKIEFANMQQREEDRMAKVQENEEKRLQLQN  
ALTQKLEEMLRQREDLEQVRQELYQEEQAEIYKSKLKEEAEKKLRKQKEMKQDFEEQMAL

KELVLQAAKEEEENFRKTM LAKFAEDDRIELMNAQKQRMKQLEHRRAVEKLI EERRQQFL  
ADKQRELEEWQLQRRQGF INAIIEEERLKLKEHATNLLGYLPKGVFKKEDDIDLLGEE  
FRKVYQQRSEICEEK

>sp|P43246|MSH2\_HUMAN DNA mismatch repair protein Msh2 OS=Homo sapiens GN=MSH2 PE=1 SV=1  
MAVQPKETLQLESAAEVGFVRFFQGMPEKPTTTVRLFDRGDFYTAHGEDALLAAREVFKT  
QGVIKYMGPAKANLQSVVLSKMNFEFVKDLLVRQYRVEVYKNRAGNKASKENDWYLA  
YKASPGNLSQFEDILFGNNDMSASIGVVGKMSAVDGGQRQVGVGVD SIQRKLGLCEFPD  
NDQFSNLEALLIQIGPKECVLPGETAGDMGKLRQIIQRGGILITERKKADFSTKDIYQD  
LNRLKKGKKEQMNSAVLPENENQVAVSSLSAVIKFLELLSDDSNFGQFELTTDFDSQYM  
KLDIAAVRALNLFQGSVEDTTGSQSLAALLNKCKTPQGQRLVNQWIKQPLMDKNRIEERL  
NLVEAFVEDAELRQTLQEDLLRRFPDLNRLAKKFQRQAANLQDCYRLYQGINQLPNVIQA  
LEKHEGKHQKLLLA VFVTPLTDLRSDFS KFKEMIETTLMDQVENHEFLVKPSFDPNLSE  
LREIMNDLEKKMQSTLISAARDLGLDPGKQIKLDSSAQFGYYFRVTCKEEKVLRNNKNFS  
TVDIQKNGVKFTNSKLTSLNEEYTKNKTEYEEAQDAIVKEIVNISSGYVEPMQTLNDVLA  
QLDAVVSFAHVSNGAPVPYPVRPAILEKGQGRIILKASRHACVEVQDEIAFIPNDVYFEKD  
KQMFHIITGPNMGGKSTYIRQTGVIVLMAQIGCFVPCESA EVSIVDCILARVGAGDSQLK  
GVSTFMAEMLETASILRSATKDSLIIIDELGRGTSTYDGFGLAWAISEYIATKIGAFCMF  
ATHFHELTALANQIPTVNNLHVLTALTTEETLTMLYQVKKGVCDQSFGIHVAELANFPKHV  
IECAKQKALEEEFYIGESQGYDIMEPAAKKCYLEREQGEKIIQEFLSKVKQMPFTEMS  
EENITIKLKQLKAEVIAKNNSFVNEIISRIKVT

>sp|Q01726|MSHR\_HUMAN Melanocyte-stimulating hormone receptor OS=Homo sapiens GN=MC1R  
PE=1 SV=2  
MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFSLGLVSLVENALVV  
ATIAKNRNLHSPMYCFICCLALSDLLVSGSNVLETAVILLEAGALVARAAVLQQLDNVI  
DVITCSSMLSSL CFLGAIAVDRIYSIFYALRYHSIVTLPRARRAVAAIWVASVVFSTLFI  
AYYDHVAVLLCLVFFLAMLVMAVLYVHMLARACQHAQGIARLHKRQRPVHQGFGLKGA  
VTLTILLGIFFLCWGPFFLHLTLIVLCPEHPTCGCIFKNFNLFLALIIICNAIIDPLIYAF  
HSQELRRTLKEVLTCSW

>sp|Q96KJ4|MSLNL\_HUMAN Mesothelin-like protein OS=Homo sapiens GN=MSLNL PE=3 SV=3  
MAAAVTIPGPRIGALQSSGLTLLLSLAHCSGPQAKVLSPGGLDASGANLWASANCSSLQ  
GFWCQPASQLPRDQLSALIQRALLQVPLQAWQLSCLANLASRCGLQDDFTLHPPNLLLF  
YNLSQVREADCRAFIRRAAQGDVELLSHLPDQRVALWRAAVACLVGAGLRLSASDQQLG  
ALVCDMDASSIGAADPHMLENLRCPRLTAAQRIALNSLLAGGKTS LGPPGSWTLEGLQA  
LGPLATYISPHLWAQVQEAVLGGFFRSVVASQVGRLGQREARCFVTSFLESKTKPVSSR  
PRLSTGNITAA TLRDDFLVHYDCAELESCLDGCILRTNLDTLQHLLPTECQHVVKAKL  
AQIYPQGLPEDQLRLITSLVYLYSRTEIGQWSITSQDTVMALLASDVALENQTEAVLQKF  
LEHNGTVSGALLAIGGTRLCWMSPHQIQTIHPQELRLAGALDLSSCPQSRKDVLYTKAH  
ETFGSSGTLAAYYRLMRPYLGSGPGAQPPSPVPPGAPVEELRHLAHANISMDIDTFTS  
LNPLELQSLDVGNTALLGHNVGDLQKARSHPTVRAWLRSLSSTLGQLGLDASPTSPTG  
PAHGTGRPPSTTHQVLHLVHTSGLPTNDAQASTSGSLWAPLGYLPLAMALPCSLLCLLHW  
GTCILSVDSVASGWLGSQSGAGKTEVLDSAGRPLGLTGQL

>sp|Q9UJG1|MSPD1\_HUMAN Motile sperm domain-containing protein 1 OS=Homo sapiens GN=MOSPD1  
PE=2 SV=1  
MHQQKRQPELVEGNLPVVFVPTELIFYADDQSTHKQVLTLYNPYEFALKFKVLCTTPNKY

VVVDAAGAVKPQCCVDIVIRHRDVRSCHYGVIDKFRLQVSEQSQRKALGRKEVVATLLPS  
AKEQQKEEEEEKRLKEHLTESLFFEQSFQPENRAVSSGPSLLTVFLGVVCI AALMLPTLGD  
VESLVPLYLHLSVNQKLVAAYILGLITMAILRT

>sp|Q9NZV6|MSRB1\_HUMAN Methionine-R-sulfoxide reductase B1 OS=Homo sapiens GN=MSRB1 PE=1  
SV=3

MSFCSFFGGEVFQNHFEFPGVYVCAKCGYELFSSRSKYAHSSPWPAFTETIHADSVAKRPE  
HNRSEALKVSCGKCGNGLGHEFLNDGPKPGQSRFUIFSSSLKFVPGKETSASQGH

>sp|Q2TV78|MST1L\_HUMAN Putative macrophage stimulating 1-like protein OS=Homo sapiens  
GN=MST1L PE=2 SV=2

MAPAPVTLLAPGAASSMSCSQPGQRSPSNDFQVLRGTELQHLLHAVVPGPWQEDVADAE  
CAGRCGPLMDCWAFHYNVSSHGCQLLPWTQHSPHSRLWHSGRCDLFQEKGEWGYMPTLRN  
GLEENFCRNPDPGGPWCHTTPAVRFQSCSIKSCRVAACVWCNGEYRGAVDRTESGR  
ECQRWDLQHPHQHPFEPGKFLDQGLDDNYCRNPDGSERPWCYTTPQIEREFCDLPRCGS  
EAQPRQEATSVSFCFRGKGEYRGTTANTTTAAYLASVGTRKSHISTDLRQKNTRASEVGGG  
AGVGTCCCGDLRENFCWNLDGSEAPWCFTLRPGTRVGFYQIRRCTDDVRPQDCYHGAGE  
QYRGTVSKTRKGVQCQRWSAETPHKLQALTLGRHALMSGTRAWKWLRLPCHDFAPAPASV  
HIYLR TACTTGGE LLPDPDGD SHGPWCYTMDPRTPFDYCALRRCDQVQFEKCGKRVDRLD  
QRRSKLRVAGGHPGNSPWTVSLNRQGGHFCAGSLVKEQWILTARQCFSSCHMPLTG YEV  
WLGTLFQNPQHGEPLQRPVAKMLCGPSGSQLVLLKLSVTLNQRVALICLPPEWYV  
PPGKCEIAGWGETKGTGNDTVLNVALLNVISNQCENIKHRGHVRESEMCTEGLLAPVGA  
CEGDYGGPLACFTHNCWVLKGI RPNRVCTRSRWP AVFTRVSFVDWIHKVMRLG

>sp|P04731|MT1A\_HUMAN Metallothionein-1A OS=Homo sapiens GN=MT1A PE=1 SV=2

MDPNCSCATGGSCTCTGSKCKECKCTSCCKSCCSCPMSCAKCAQGCICKGASEKCS  
A

>sp|P02795|MT2\_HUMAN Metallothionein-2 OS=Homo sapiens GN=MT2A PE=1 SV=1

MDPNCSCAAGDSCTCAGSKCKECKCTSCCKSCCSCCPVGCAKCAQGCICKGASDKCS  
A

>sp|Q9BTC8|MTA3\_HUMAN Metastasis-associated protein MTA3 OS=Homo sapiens GN=MTA3 PE=1  
SV=2

MAANMYRVGDYVYFENSSSNPYLIRRIEELNKTASGNVEAKVVCFYRRRDISNTLIMLAD  
KHAKEIEEESETTVEADLTDKQKHQLKHRELFLSRQYESLPATHIRGKCSVALLNETESV  
LSYLDKEDTFFYSLVYDPSLKTLLADKGEIRVGPRYQADIP EMLLEGESDEREQSKLEV  
VWDPN SPLTDRQIDQFLVVARAVGT FARALDCSSSVRQPSLHMSAAAASRDITLFHAMDT  
LYRHSYDLSSAISVLVPLGGPVLCRDEMEEWSASEASLFEEALEKYGKDFNDIRQDFLPW  
KSLTSII EY YMMWKT TDRYVQKRLKAAEAESKLKQVYIPTYSKPNPNQISTSNKPGAV  
NGAVGTTFPQNPLGRACESCYATQSHQWYSWGPPNMQCRLCAICWLYWKYGG LKMPT  
QSEEEKLSPSTTEDPRVRSHVSRQAMQGM PVRNTGSPKSAVKTRQAF FLHTTYFTKFAR  
QVCKNTLRLRQAARRPFVA INYAIRA EYADRHAELSGSPLKSKSTRKPLACIIGYLEIH  
PAKKPNVIRSTPSLQTP TTKRML TTPNHTSLSILGKRNYSHHNGLDEL TCCVSD

>sp|P11137|MTAP2\_HUMAN Microtubule-associated protein 2 OS=Homo sapiens GN=MAP2 PE=1 SV=4

MADERKDEAKAPHWTSAPLTEASAHSHPPEIKDQGGAGEGLVRSANGFPYREDEEGAFGE  
HGSQGTYSNTKENGINGELTSADRETAEEVSARIVQVVTAEAVAVLKGEQEKEAQHKDQT  
AALPLAAEETANLPPSPPPSPASEQTVTVEEDLLTASKMEFHDQQELTPSTAEPDQKEK  
ESEKQSKPGEDLKHAALVSQPETTKTYPDKKDMQGTEEEKAPLALFGHTLVASLEDMKQK

TEPSLVVPGIDLPEPPTPKEQKDFIEMPTAKKDEWGLVAPISPGPLTPMREKDVFD  
IPKWEKGQFDSMPSPFQGGSTLPLDMKNEIVTETSPFAPFLQDDKKSLLQTS  
GPA TAKDSFKIEEPHEAKPDKMAEAPPSEAMTLPKDAHIPVVEEHVMGKVL  
EEEEKEAINQETV QQRDTFTPSGQEPILTEKETELKLEKTTISDKEAVPKES  
KPPKPADEEIGIIQTSTEHT FSEQKDQEPTDMLKQDSFPVSLEQAVTDS  
AMTSKTLKAMTEPSALIEKSSIQELFEMR VDDKDKIEGVGAATSAEL  
DMPFYEDKSGMSKYFETSALKEEATKSIEPGSDYYELSDTRE SVHES  
IDTMSPMHKNGDKEFQTGKESQSPPAQEAGYSTLAQSYPSDLPEEPSSP  
QERMTIDPKVYGEKRDLSKNKDDLTLRSRLGLGGRSAIEQRMSINLPM  
SCLDSIALGFNFGR GHDLSPLASDILNTSGSMDEGDDYLPATPALEKAP  
CFPVESKEEQIEKVKATGEEST QAEISCESPFLLAKDFYKNGTVMAPDL  
PEMLDLAGTRSLASVSADA EVARRKSVPSETVV EDSRTGLPPVTDENH  
VIVKTDSQLLEDLGVCVFNKYTVPLPSPVQDSENLSGESGTFYEGT  
DDKVRRLATDLSLIEVKLAAAGRVKDEFSVDKEASAHISGDKSGLSKE  
FDQEKKANDRL DTVLEKSEEHADSKEHAKKTEEAGDEIETFGLGVTYE  
QALAKDLSIPTDASSEKAEKGLS SVPEIAEVEPSKKVEQGLDFAVQ  
GQLDVKISDFGQMASGLNIDRRATELKLEATQDMTP SSKAPQEADAFM  
GVESGHMKEGTVKSETEVKEKVAKPDLVHQEAVDKESYESSGEHESL  
TMESLKADEGKKETSPESSLIQDEIAVKLSVEIPCPPAVSEADLATDER  
ADVQMEFIQGP KEESKETPDISITPSDVAEPLHETIVSEPAEIQSEEEE  
IEAQGEYDKLLFRSDTLQITDL GVSAREEFVETCPSEHKGVI  
ESVVTIEDDFITVVQTTTDEGESGSHSVRFAALEQPEVE RRPSPH  
DEEEFEVEEAAEAQAEPKDGSPEAPASPEREEVALSEYKTET  
YDDYKDETTIDD SIMDADSLWVDTQDDRSIMTEQLETIPKEEKAEKE  
ARRSSLEKHKRKEKPKFTGRGRIST PERKVAKKEPSTVSRDEVR  
RKAVYKKAELAKKTEVQAHSRKFILKPAIKYTRP  
THLS CVKRKTTAAGGESALAPSVFKQAKDKVSDGVTKSPEKRSSL  
PRPSSILPPRRGVSGDRDE NSFSLNSSISSARRTTRSEP  
IRRAGKSGTSTPTPGSTAITPGTPPSYSSRTPGTPGTP  
SYPRTPHTPGTPKSAILVPSEKKVAIIRTPPKSPATPKQLRLINQPL  
DLKNVKSIGST DNIKYQPKGGQVIVTKKIDLSHVT  
SKCGSLKNIRHRPGGGRVKIESVKLDFKEKAQAKV  
GSLDNAHHVPGGGNVKIDSQKLNFR  
EHA KARVDHGAEEITQSPGRSSVASPRRLSNVSS  
GSINLLESPQLATLAEDVTAALAKQGL

>sp|Q9Y6C9|MTCH2\_HUMAN Mitochondrial carrier homolog 2 OS=Homo sapiens GN=MTCH2 PE=1 SV=1  
MADAASQVLLGSGLTILSQPLMYVKVLIQVGYEPLPPTIGRNIFGRQVCQLPGLFSYAQH  
IASIDGRRGLFTGLTPRLCSGVLGTVVHGKVLQHYQESDKGEELGPGNVQKEVSSSFDHV  
IKETTREMIARSAATLITHPFHVTILRSMVQFIGRESKYCGLCDSIIITYREEGILGFFA  
GLVPRLLGDILSLWLCNSLAYLVNTYALDSGVSTMNEMKSYSQAVTGFFASMLTYPFVLV  
SNLMAVNNCGLAGGCPPYSPIYTSWIDCWMLQKEGNMSRGNLFFRKVPFGKTYCCDLK  
MLI

>sp|Q9H903|MTD2L\_HUMAN Probable bifunctional methylenetetrahydrofolate  
dehydrogenase/cyclohydrolase 2 OS=Homo sapiens GN=MTHFD2L PE=2 SV=3  
MTVPVRGFSLLRGRGRAPALGRSTAPSVRAPGEPGSAFRGFRSSGVRHEAIIISGTEMA  
KHIQKEIQRGVESWVSLGNRRPHLSIILVGDNPASHTYVRNKIRAASAVGICSELILKPK  
DVSQEELLDVTDQLNMDPRVSGILVQLPLPDHVDERTICNGIAPEKDVDGFHIIINIGRLC  
LDQHSLIPATASAVWEIIKRTGIQTFGKNVVVAGRSKNVGMPIAMLLHTDGEHERPGGDA  
TVTIAHRYTPKEQLKIHTQLADIIIVAAGIPKLITSDMVKEGAVIDVGINYVHDPVTGK  
TKLVGDVDFEAVKKKAGFITPVPGGVGPMTVAMLLKNTLLAAKKIIY

>sp|Q13496|MTM1\_HUMAN Myotubularin OS=Homo sapiens GN=MTM1 PE=1 SV=2  
MASASTSKYNSHSLLENESIKRTSRDGVNRDLTEAVPRLPGETLITDKEVIYICPFNGPIK

GRVYITNYRLYLRSLETSSILDVPLGVISRIEKMGGATSRGENSYGLDITCKDMRNLR  
FALKQEGHSRRDMFEILTRYAFPLAHSPLFAFLNEEFNVDGWTVYNPVEEYRRQGLPN  
HHWRITFINKCYELCDTYPALLVVPYRASDDDLRRVATFRSRNRIPVLSWIHPENKTVIV  
RCSQPLVGMGSKRNKDDEKYLDVIRETNQISKLTIIDARPSVNAVANKATGGGYESDDA  
YHNAELFFLDIHNHVMRESLKKVKDIVYPNVEESHWLSSLESTHWLEHIKLVLTGAIQV  
ADKVSSGKSSVLVHCSGDGWDRTAQLTSLAMLMLDSFYRSIEGFEILVQKEWISFGHKFAS  
RIGHGDKNHTDADRSPIFLQFIDCVWQMSKQFPTAFEFNEQFLIIILDHLYSCRFGTFLF  
NCESARERQKVTERTVSLWSLINSNKEKFKNPFYTKEINRVLYPVASMRHLELWVNYIR  
WNPRIKQQQPNPVEQRYMELLALRDEYIKRLEELQLANSAKLSDPPTSPSSPSQMMPHVQ  
THF

>sp|Q13613|MTMR1\_HUMAN Myotubularin-related protein 1 OS=Homo sapiens GN=MTMR1 PE=1 SV=4

MDRPAAAAAGCEGGGPNPGPAGGRRPPRAAGGATAGSRQPSVETLDSPTGSHVEWCKQ  
LIAATISSQISGSVTSENVSRDYKALRDGNKLAQMEEAPLFPGESIKAIVKDVMIYICPFM  
GAVSGTLTVTDFKLYFKNVERDPHFILDVPLGVISRVEKIGAQSHGDNSCGIEIVCKDMR  
NRLAYKQEEQSKLGIFENLNKHAFPLSNGQALFAFSYKEKFPINGWKVYDPVSEYKRQG  
LPNESWKISKINSNYEFCDTYPAIIVVPTSVKDDDLKVAAFRAKGRVPVLSWIHPESQA  
TITRCSQPLVGPNDKRCKEDEKYLQTIMDANAQSHKLIIFDARQNSVADTNKTKGGGYES  
ESAYPNAELVFLEIHNHVMRESLRKLKEIVYPSIDEARWLSNVDGTHWLEYIRMLLAGA  
VRIADKIESGKTSVVVHCSGDGWDRTAQLTSLAMLMLDSYYRTIKGFETLVEKEWISFGHR  
FALRVGHGNDNHADADRSPIFLQFVDCVWQMTQFQPSAFEFNELFLITILDHLYSCLFGT  
FLCNCEQQRKFEDVYTKTISLSYINSQLEFSNPFVNYENHVLVPVASLSHLELWVNY  
YVRWNPRMRPQMPIHQNLKELLAVRAELQKRVEGLQREVATRAVSSSSERGSSPSHSATS  
VHTSV

>sp|Q13615|MTMR3\_HUMAN Myotubularin-related protein 3 OS=Homo sapiens GN=MTMR3 PE=1 SV=3

MDETRHSLECIQANQIFPRKQLIREDENLQVPFLELHGESTEFGVRAEDAIIALSNYRL  
HIKFKESLVNVPLQLIESVECRDIFQLHLTCKDCKVIRCQFSTFEQCQEWLKRNNAIRP  
PAKIEDLFSFAYHAWCMEVYASEKEQHGDLCRPGEHVTSRFKNEVERMGFDMNNAWRISN  
INEKYKLCGSYPQELIVPAWITDKELESVSSFRSWKRIPAVIYRHQSNGAVIARCGQPEV  
SWWGWRNADDEHLVQSVAKACASDRSSGSKLSTRNTSRDFPNGGDLSDVEFDSSLSNAS  
GAESLAIQPQKLLILDARSYAAVANRAKGGGCECPEYYPNCEVFMGMANIHSIRRSFQ  
SLRLLCTQMPDPGNWLSALESTKWLHHLVLLKSALLVVHAVDQDQRPVLVHCSGDGWDRT  
PQIVALAKLLDPYRTIEGFVLVEMEWLDFGHKFADRCGHGENSDDLNERCPVFLQWL  
DCVHQLQRQFPCSFEFNEAFLVKLVQHTYSCLFGTFLCNAKERGEKHTQERTCSVWSLL  
RAGNKAFKNLLYSSQSEAVLYPVCHVRNMLWSAVYLPSPPTTPVDDSCAPYPAPGTSP  
DDPPLSRLPKTRSNDLTACDNTVPLASRRCDPSLNEKWQEHRSLELSSLAGPGEDP  
LSADSLGKPTRVPGGAELSVAAGVAEGQMENILQEATKEESGVEEPAHRAGIEIQEGKED  
PLLEKESRRKTPEASAIGLHQDPELGDAAALRSHLDMSWPLFSQGISQQSGLSVLLSSLQ  
VPPRGEDSLEVPVEQFRIEEIAEGREEAVLPVPDAKVGYGTSQSCSLPSQVPFETRGP  
NVDSSDMLVEDKVSVSGPQGHRSCLVNSGKDRLPQTMEPSPSETSLVERPQVGSVVH  
RTSLGSTLSLTRSPCALPLAECKEGLVCNGAPETENRASEQPGLSTLQMYPTPNGHCAN  
GEAGRSKDSLSRQLSAMSCSSAHLHSRNLHHKWLHSHSGRPSATSSPDQPSRSHLDDGDM  
SVYTDTIQQLRLQIESGHQQEVELKKQVQELKSRLSQYLTSSLHFNGDFGDEVTSIPD  
SESNDQNCLSRCSTEIFSEASWEQVDKQDTEMTRWLPDHLAAHCYACDSAFWLASRKHH  
CRNCGNVFCSSCCNQKVPVPSQQLFEPSRVCKSCYSSLHPTSSSIDLELDKPIAATSN



>sp|P55157|MTP\_HUMAN Microsomal triglyceride transfer protein large subunit OS=Homo sapiens GN=MTTP PE=1 SV=1

MILLAVLFLCFISSYSASVKGHTTGLSLNNDRLYKLTYSTEVLLDRGKGKLQDSVGYRIS  
SNVDVALLWRNPDGDDQLIQITMKDVNVENVNQERGEKSIKFKGSPSKIMGKENLEALQ  
RPTLLHLIHGKVKEFYSYQNEAVAIAENIKRGLASLFQTQLSSGTTNEVDISGNCKVITYQA  
HQDKVIKIKALDSCKIARSGFTTPNQVLGVSSKATSVTTYKIEDSFVIAVLAETHNFG  
NFLQTIKGKIVSKQKLELKTTEAGPRLMSGKQAAAIKAVDSKYTAIPVGVFQSHCKG  
CPSLSELWRSTRKYLQPDNLSKAEAVRNFLAFIQHLRTAKKEEILQILKMENKEVLPQLV  
DAVTSAGTSDSLEAILDFLDFKSDSSIILQERFLYACGFASHPNEELLRALISKFKGSIG  
SSDIRETVMIITGTLVRKLCQNEGCKLKAVVEAKKILGGLKAEKKEDTRMYLLALKNA  
LLPEGIPSLKYAEAGEGPISHLATTALQRYDLPFITDEVKKTNLRIYHQNKRKVHEKTVR  
TAAAIILNNNPSYMDVKNILLSIGELPQEMNKYMLAIVQDILRFEMPASKIVRRVLKEM  
VAHNYDRFSRSGSSAYTGYIERSPRASSTYSLDILYSGSGILRRSNLIFQYIGKAGLH  
GSQVVEAQQGLEALIAATPDEGEENLDSYAGMSAILFDVQLRPVTFNNGYSDLMSKMLSA  
SGDPISVVKGLILLIDHSQELQLQSGLKANIEVQGGLAIDISGAMEFSLWYRESKTRVKN  
RVTVVITTDITVDSSFVKAGLETSTETEAGLEFISTVQFSQYPFLVCMQMDKDEAPFRQF  
EKKYERLSTGRGYVSQKRKESVLAGEFPLHQENSEMCKVVFAPQPDSTSSGWF

>sp|Q9UBK8|MTRR\_HUMAN Methionine synthase reductase OS=Homo sapiens GN=MTRR PE=1 SV=3

MGAASVRAGARLVEALCSFTVTCLEVMRRFLLLYATQQGQAKAIAEEICEQAVVHGFS  
DLHCISESDKYDLKTETAPLVVVVSTGTGDPPTARKFVKEIQNQTLPVDFFAHLRYGL  
LGLGDSEYTYFCNGGKIIDKRLQELGARHFYDTGHADDCVGLLVPEWPIAGLWPALRKH  
FRSSRGQEEISGALPVASPASSRTDLVKSELLHIESQVELLRFDSDGRKDSEVLKQNAVN  
SNQSNVIEDFESSLTRSVPLSQASLNIPGLPPEYLQVHLQESLGQEEQSVSVTSADPV  
FQVPISKAVQLTTNDAIKTTLLVELDISNTDFSYQPGDAFSVICPNSDSEVQSLLQRLQL  
EDKREHCVLLKIKADTKKKGATLPQHIPAGCSLQFIFTWCLEIRAIPKKAFLRALVDYTS  
DSAEKRRLQELCSKGAADYSRFVRDACACLLDLLLAFSPCQPPLSLLEHLPKLQPRPY  
SCASSSLFHPGKLHFVFNIVEFLSTATTEVLRKGVCTGWLALLVASVLQPNIHASHEDSG  
KALAPKISISPRTTNSFHLRDDPSIPIIMVGPGTGIAPIGFLQHREKLQEHPDGNFGA  
MWLFFGCRHKDRDYLFKRELHFLKHGILTHLKVSFSRDAPVGEAAKAYVQDNIQLHG  
QQVARILLQENGHIYVCGDAKNMAKDVEDALVQIISKEVGVEKLEAMKTLATLKEEKRYL  
QDIWS

>sp|Q685J3|MUC17\_HUMAN Mucin-17 OS=Homo sapiens GN=MUC17 PE=1 SV=2

MPRPGTMALCLLTLVLSLLPPQAAAEQDLNVRAVWDGGGCSIQGDVLNRQCQQLSQHVR  
TGSAANTATGTTSTNVVEPRMYSCLSTNPMTSIESSVTSPTPGVSSTRMPTESRTTSE  
STSDSTTLFPSSTEDTSSPTTPEGTDVPMSTPSEESISSTMAFVSTAPLPSFEAYTSLTY  
KVD MSTPLTTSTQASSPTTPESTTIPKSTNSEGSTPLTSMPTMKTASSEAITLLTTP  
VEISTPVTISAQASSPTTAEGPSLSNSAPSGGSTPLTRMPLSVMLVVSSEASTLSTPA  
ATNIPVITSTEASSSPTTAEGTSIPTSTYEGSTPLTSTPASTMPVATSEMSTLSITPVD  
TSTLVTTSTEPSSLPTAEATSMSTLSTLSEGSTPLTNMPVSTILVASSEASTTSTIPVDS  
KTFVTTASEASSSPTTAEDTSIATSTPSEGSTPLTSMPTVSTPVSSEASNLTSTPVDST  
TQVTTSTEASSSPTAEVNSMPTSTPSEGSTPLTSMPTVSTPVSSEASTLSTTPVDTST  
PVTTSSEASSSSTTPEGTSIPTSTPSEGSTPLTNMPVSTRLVVSSEASTTSTTPADSNFT  
VTTSEASSSSTTAEGTSMPTSTYSEGTITSMPTVSTTLVASSEASTLSTTPVDSNTPV  
TTSTEATSSSTTAEGTSMPTSTYSEGTPLTSMPTVNTTLVASSEASTLSTTPVDTSTPVT

TSTEASSSPTTADGASMPSTPSEGSTPLTSMPVSKLLTSSEASTLSTPLDSTHITT  
STEASCSPTTTEGTSMPISTPSEGSPLLSIPVSITPVTSPEASTLSTTPVDSNSPVTT  
TEVSSSPTPAEGTSMPSTSTYSEGRPLTSMPVSTTLVATSAISTLSTTPVDTSTPVTNST  
EARSSPTTSEGTSMPSTPGEGSTPLTSMPDSTTPVVSSEARTLSATPVDSTSPVTTSTE  
ATSSPTTAEGTSIPTSTPSEGTTPLTSTPVSHTLVANSEASTLSTTPVDSNTPLTTSTEA  
SSPPPTAEGTSMPSTPSEGSTPLTRMPVSTTMVASSETSTLSTTPADTSTPVTTYQAS  
SSSTTADGTSMPSTSTYSEGSTPLTSVPVSTRLVVSSEASTLSTTPVDTSPVTTSTEASS  
SPTTAEGTSIPTSPPEGGTTPLASMPVSTTLVVSSEANTLSTTPVDSKTQVATSTEASSP  
PPTAEVTSMPSTPGERSTPLTSMPVRHTPVASSEASTLSTSPVDTSTPVTTSAETSSSP  
TTAEGTSLPTSTTSEGSTLLTSIPVSTTLVTSPEASTLLTTPVDTKGPVVTSNEVSSSPT  
PAEGTSMPSTSTYSEGRPLTSIPVNTTLVASSAISILSTTPVDNSTPVTTSTEACSSPTT  
SEGTSMPNSNPSEGTTPLTSIPVSTTPVVSSEASTLSATPVDSTSPGTTSAEATSSPTTA  
EGISIPTSTPSEGKTPLKSIPVSNTPVANSEASTLSTTPVDSNSPVVTSTAVSSSPTPAE  
GTSIAISTPSEGSTALTSIPVSTTTVASSEINSLSTTPAVTSTPVTTYQASSSPTTADG  
TSMQTSTYSEGSTPLTSLPVSTMLVVSSEANTLSTTPIDSKTQVTASTEASSSTTAEGSS  
MTISTPSEGSPLLSIPVSTTPVASPEASTLSTTPVDSNSPVITSTEVSSSPTPAEGTSM  
PTSTYTEGRPLTSITVRTTPVASSAISTLSTTPVDNSTPVTTSTEARSSPTTSEGTSMP  
NSTPSEGTTPLTSIPVSTTPVLSSEASTLSATPIDTSTPVTTSTEATSSPTTAEGTSIPT  
STLSEGMTPLTSTPVSHTLVANSEASTLSTTPVDSNSPVVTSTAVSSSPTPAEGTSIATS  
TPSEGSTALTSIPVSTTTVASSETNLTSTTPAVTSTPVTTYAQVSSSPTTADGSSMPTST  
PREGRPPLTSIPVSTTTVASSEINTLSTTLADTRTPVTTYQASSSPTTADGTSMPTPAY  
SEGSTPLTSMPLSTTLVVSSEASTLSTTPVDTSTPATTSTEGSSSPTTAGGTSIQSTPS  
ERTTPLAGMPVSTTLVVSSEGNLTSTTPVDSKTQVTNSTEASSSATAEGSSMTISAPSEG  
SPLLSIPLSTTPVASPEASTLSTTPVDSNSPVITSTEVSSSPIPTEGTSMQTSTYSDDR  
TPLTSMPVSTTVASSAISTLSTTPVDTSTPVTNSTEARSSPTTSEGTSMPSTPSEGST  
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LTSIPVSHTLVANSEVSTLSTTPVDSNTPFTTSTEASSPPPTAEGTSMPSTSSSEGNTP  
TRMPVSTTMVASFETSTLSTTPADTSTPVTTYQAGSSPTTADDTSMPTSTYSEGSTPLT  
SVPVSTMPVVSSEASTHSTTPVDTSTPVTTSTEASSSPTTAEGTSIPTSPPEGGTTPLAS  
MPVSTTPVVSSEAGTLSTTPVDTSTPMTTSTEASSSPTTAEDIVVPISTASEGSTLLTSI  
PVSTTPVASPEASTLSTTPVDSNSPVVTSTEISSATSAEGTSMPSTSTYSEGSTPLRSMP  
VSTKPLASSEASTLSTTPVDTSPVTTSTETSSSPTTAKDTSMPISTPSEVSTSLTSILV  
STMPVASSEASTLSTTPVDTRLVTTSTGTSSSPTTAEGSSMPTSTPGERSTPLTNILVS  
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LPVASSEASTVSTTAVDTSIPVTTSTEASSSPTTAEVTSMPSTSTPSETSTPLTSMPVNHT  
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VASSEASTLSTTPVDTSPVTTSTEGSSSPTTAEGTSMPISTPSEVSTPLTSILVSTVPV  
AGSEASTLSTTPVDTRTPVTTSAEASSSPTTAEGTSMPISTPGERRTPLTSMVSTMPVA  
SSEASTLSRTPADTSTPVTTSTEASSSPTTAEGTGIPISTPSEGSTPLTSIPVSTTPVAI  
PEASTLSTTPVDSNSPVVTSTEVSSSPTPAEGTSMPISTYSEGSTPLTGVPVSTTPVTSS  
AISTLSTTPVDTSTPVTTSTEAHSSPTTSEGTSMPSTPSEGSTPLTYMPVSTMLVVSSE  
DSTLSATPVDSTSPVTTSTEATSSPTTAEGTSIPTSTPSEGMTPLTSVPVSNTPVASSEAS  
ILSTTPVDSNTPLTTSTEASSSPTTAEGTSMPSTPSEGSTPLTSMPVSTTTVASSETST  
LSTTPADTSTPVTTYQASSSPPIADGTSMPSTSTYSEGSTPLTNMSFSTTPVVSSEASTL

STTPVDTSTPVTSTTEASLSPTTAEGTSIPTSSPSEGTTPLASMPVSTTPVVSSEVNTLS  
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TPVDTSTPVTSSPTNSSPTTAEVTSMPSTSTAGEGSTPLTNMPVSTTPVASSEASTLSTT  
PVDSNTFVTSSSQASSPATLQVTTMRMSTPSEGSSSLTMLSSTYVTSSEASTPSTPS  
VDRSTPVTSTQSNSTPTPPEVITLPMSTPSEVSTPLTIPVSTTSVTISEAGTASTLPV  
DTSTPVITSTQVSSSPVTPEGTTMPIWTPSEGSTPLTTPVSTTRVTSSEGSTLSTPSVV  
TSTPVTSTTEAISSSATLDSTMSVSMPMEISTLGTTILVSTTPVTRFPESSTPSIPSVY  
TSMSTTASEGSSSPTTLEGTTMPMSTTSERSTLLTTLVISPISVMSPSEASTLSTPPG  
DTSTPLLTSTKAGSFSIPAENVTTIRISITSERSTPLTLLVSTTLPTSFPGASIASTPPL  
DTSTTFPSTDTASTPTIPVATTISVSVITEGSTPGTTIFIPSTPVTSSADVFPATTGA  
VSTPVITSTELNTPSTSSSSTTSFSTTKEFTTPAMTTAAPTLYVTMSTAPSTPRTTSRG  
CTTSASTLSATSTPHSTSVTTRPVTPSSESRPSTITSHIPTFPFPAHSSTPPTTSAS  
STTVNPEAVTMTTRTKPSTRTTSFPTVTTTAVPTNTTIKSNPTSTPTVPRTTTCFGDGC  
QNTASRCKNGGTWDGLKCQCPNLYYGELCEEVSSIDIGPPETISAQMELTVTVTSVKFT  
EELKNHSSQEFQEFKQTFTEQMNIVYSGIPEYVGVNITKLRLGSVVVEHDVLLRTKYTPE  
YKTVLDNATEVVKEKITKVTTQQIMINDICSDMMCFNTTGTQVQNITVTQYDPEEDCRKM  
AKEYGDYFVVEYRDQKPYCISPCEPGFSVSKNCNLGKCQMSLSGPQCLCVTTETHWYSGE  
TCNQGTQKSLVYGLVGAVVLMILVALLMLVFRSKREVVRQKYRLSQLYKWQEEDSGP  
APGTFQNIQFDICQDDDSIHLESIYSNFQPSLRHIDPETKIRIQRPQVMTTSF

>sp|Q8N307|MUC20\_HUMAN Mucin-20 OS=Homo sapiens GN=MUC20 PE=1 SV=3

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHAALETQTL  
SAETSSRASTPAGPIPEAETRGAKRISPARETRSFTKTSNPFMVLIATSVETSAASGSPE  
GAGMTTVQTITGSDPREAIFDTLCTDDSSSEAKLTMDILTLAHTSTEAKGLSSESSASS  
DSPHPVITPSRASESSASSDGHPVITPSRASESSASSDGHPVITPSRASESSASSDGP  
HPVITPSRASESSASSDGHPVITPSRASESSASSDGHPVITPSRASESSASSDGHPV  
ITPSRASESSASSDGHPVITPSRASESSASSDGHPVITPSRASESSASSDGLHPVITP  
SRASESSASSDGHPVITPSRASESSASSDGHPVITPSWSPGSDVTLAEALVTVTNIE  
VINCSITEIETTTSSIPGASDIDLIPTEGVKASSTSDPPALPDSTEAKPHITEVTASAET  
LSTAGTTESAAPDATVGTPLPTNSATEREVTAPGATTLGALVTVSRNPLEETSALSVET  
PSYVKVSGAAPVSIAGSAVGKTTSFAGSSASSYSPSEAAKNFTPSETPTMDIATKGPF  
PSTRDPLPSVPPTTNSRGTNSTLAKITTSAKTTMKPPTATPTTARTRPTTDVSAGENG  
GFLLLRLSVASPEDLTDPRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

>sp|P46734|MP2K3\_HUMAN Dual specificity mitogen-activated protein kinase kinase 3 OS=Homo sapiens GN=MAP2K3 PE=1 SV=2

MESPASSQPASMPQSKGKSKRKKDLRISCMKPPAPNPTPPRNLDRTFITIGDRNFEVE  
ADDLVITISELGRGAYGVVEKVRHAQSGTIMAVKRIRATVNSQEQKRLMDLDINMRTVDC  
FYTVTFYGFALFREGDVWICMELMDTSLDKFYRKVLDKNMTIPEDILGEIAVSIVRALEHL  
HKSLSVIHRDVKPSNVLINKEGHVKMCDFGISGYLVDSVAKTMDAGCKPYMAPERINPEL  
NQKGYNVKSDVWSLGITMIEMAILRFPYESWGTPFQQLKQVVEEPSQLPADRFSPFVVD  
FTAQCLRKNAERMSYLELMEHPFFTLHKTKKTDIAAFVKEILGEDS

>sp|Q8TEZ7|MPRB\_HUMAN Membrane progesterin receptor beta OS=Homo sapiens GN=PAQR8 PE=2 SV=1

MTTAILERLSTLSVSGQQLRRLPKILEDGLPKMPCTVPETDVPQLFREPYIRTGYRPTGH  
EWRYFFSLFQKHNEVVNVWTHLLAALAVLLRFWAFAEAEALPWASTHSLPLLLFILSSI  
TYLTCSLLAHLQLSKSELSHYTFYFVDYGVSVYQYGSALAHFFYSSDQAWYDRFWLFFL

PAAAFCGWLSAGCCYAKYRYRRPYPVMRKICQVVPAGLAFILDISPVAHRVALCHLAGC  
QEQAAWYHTLQILFFLVSAFFSFCVPEKYFPGSCDIVGHGHQIFHAFLSICTLSQLEAI  
LLDYQGRQEIFLQRHGPLSVHMACLSFFFLAACSAATAALLRHKVKARLTKKDS

>sp|P39210|MPV17\_HUMAN Protein Mpv17 OS=Homo sapiens GN=MPV17 PE=1 SV=1

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQGRGRTLTMVSLGCG  
FVGPPVGGWYKVLDRFIPGTTKVDALKKMLLDQGGFAPCFLGCFPLPLVGALNGLSAQDNW  
AKLQRDYPDALITNYLWPAVQLANFYLVPLHYRLAVVQCVAVIWNYSWKAHRL

>sp|Q5VT25|MRCKA\_HUMAN Serine/threonine-protein kinase MRCK alpha OS=Homo sapiens  
GN=CDC42BPA PE=1 SV=1

MSGEVRLRQLEQFILDGPAQTNGCFSVETLLDILICLYDECNNSPLRREKNILEYLEWA  
KPFTSKVKQMLHREDFEILKVIGRGAFGEVAVVKLNADKVFAMKILNKWEMLKRAETA  
CFREERDVLVNGDNKWITTLHYAFQDDNNLYLVMDYYVGGDLLTLLSKFEDRLPEDMARF  
YLAEMVIAIDSVHQLHYVHRDIKPDNILMDMNGHIRLADFGSCLKLMEDGTVQSSVAVGT  
PDYISPEILQAMEDGKGRYGPECDWWSLGVCMYEMLYGETPFYAESLVETYGKIMNHKER  
FQFPAQVTDVSENADLIRRLICSREHRLGQNGIEDFKKHPPFFSGIDWDNIRNCEAPYIP  
EVSSPTDTSNFDVDDCLKNSETMPPPTHTAFSGHHLPFVGFTYTSSCVLSDRSCLRVTA  
GPTSLDLVDNVQRTLDNNLATEAYERRIKRLEQEKLELSRKLQESTQTVQALQYSTVDGP  
LTASKDLEIKNLKEEIEKLKQVTESSHLEQQLEEANAVRQELDDAFRQIKAYEKQIKTL  
QQEREDLNKELVQASERLKNQSKELKDAHCQRKLAMQEFMEINERLTELHTQKQKLARHV  
RDKEEEVDLVMQVESLRQELRRTERAKKELEVHTEALAAEASKDRKLREQSEHYSKLE  
NELEGLKQKQISYSPGVCSIEHQQEITKLKTDLEKKSIFYEEELSKREGIHANEIKNLKK  
ELHDEGQQALALNKEIMILKDKLEKTRRESQSEREFESEFKQQYEREKVLLTEENKKLT  
SELDKLTTLTYENLSIHNQQLEEEVKDLADKKESVAHWAEQITEIIQWVSDEKDARGYLQA  
LASKMTEELEALRNSSLGTRATDMPWKMRRAKLDMSARLELQSALDAEIRAKQAIQEEL  
NKVKASNIITECKLKDSEKKNELELSEIEQLIKDTEELRSEKIEHQDSQHSFLAFLNTP  
TDALDQFERSPCTPASKGRRTVDSTPLSVHTPTLRKKGCPGSTGFPPKRKTHQFFVKSF  
TTPTKCHQCTSLMVGLIRQGCSCFVCGFSCHITCVNKAPTTCPVPPEQTKGPLGIDPQKG  
IGTAYEGHVRIKPKAGVKKGWQRALAIVCDFKFLFYDIAEGKASQPSVVISQVIDMRDEE  
FSVSSVLASDVHASRKDIPCFRVTASQLSASNKCSILMLADTENEKNKWWGVLSSELH  
KILKKNKFRDRSVYVPKEAYDSTLPLIKTTQAAAIIDHERIALGNEEGLFVVHVTKDEII  
RVGDNKKIHQIELIPNDQLVAVISGRNRHVRLFPMSALDGRETFYKLSETKGCQTVTSG  
KVRHGALTCLCVAMKRQVLCYELFQSKTRHRKFKEIQVPYNVQWMAIFSEQLCVGFQSGF  
LRYPLNGEGNPYSMLHSNDHTLSFIAHQPMDAICAVEISSKEYLLCFNSIGIYTDCQGRR  
SRQQELMWPANPSSCCYNAPYLSVYSENAVDFDVNSMEWIIQTLPLKKVRPLNNEGSLNL  
LGLETIRLIYFKNKMAEGDELVPETSDNSRKQMVNRINNKRRYSFRVPEEERMQRREM  
LRDPEMRNKLISNPTNFNHIAHMGPGDGIQILKDLPMNPRPQESRTVFSGSVSIPSITKS  
RPEPGRSMSASSGLSARSSAQNGSALKREFSGGSYSAKRQPMPSPEGSLSSGMDQGSD  
APARDFDGEDSDSPRHSTASNSSNLSSPPSPASPRKTKSLSESTDRGSWDP

>sp|P49959|MRE11\_HUMAN Double-strand break repair protein MRE11A OS=Homo sapiens  
GN=MRE11A PE=1 SV=3

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LFHENKPSRKTLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQDGNLNISI  
PVFVSIHGNHDDPTGADALCALDILSCAGFVNHFGRSMSVEKIDISPVLLQKGSTKIALYG  
LGSIPDERLYRMFVNKKVTMLRPKEDENSWFNLFVIHQNRSKHGSTNFIPEQFLDDFIDL

VIWGHEHECKIAPTNEQQLFYISQPGSSVVTSLSPGEAVKKHVGLLRIGRKMNMHKIP  
LHTVRQFFMEDIVLANHPDIFNPDNPKVTQAIQSFCLEKIEEMLENAERERLGNHQPEK  
PLVRLRDVYSGGFEPFVSVLRFSQKFVDRVANPKDI IHFFRHREQKEKTGEEINFGKLITK  
PSEGTTLRVEDLVKQYFQTAENQVLSLLTERGMGEAVQEFVDKEEKDAIEELVKYQLEK  
TQRFLKERHIDALEDKIDEEVRRFRRETRQKNTNEEDDEVREAMTRARALRSQSEESASAF  
SADDLMSIDLAEQMANDSDDSI SAATNKGGRGRGRRRGGRGQNSASRGGSQRGRADTGLE  
TSTRSRNSKTAVSASRNMSIIDAFKSTRQQPSRNVTTKNYSEVIEVDES DVEEDIFPTTS  
KTDQRWSSTSSSKIMSQSQVSKGVDFESSEDDDDDPFMTSSLRRNRR

>sp|Q8TDS7|MRGRD\_HUMAN Mas-related G-protein coupled receptor member D OS=Homo sapiens  
GN=MRGPRD PE=2 SV=1

MNQTLNSSGTVESALNYSRGSTVHTAYLVLSLAMFTCLCGMAGNSMVIWLLGFRMHRNP  
FCIYILNLAAADLLFLFSMASTLSLETQPLVNTTDKVHELMKRLMYFAYTVGLSLLTAIS  
TQRCLSVLFPIWFKCHRPRHLSAWVCGLLWTLCLLMNGLTSSFCSKFLKFNEDRCFRVDM  
VQAALIMGVLTPTVMTLSSLTLFVWVRSSQQWRRQPTRLFVVVLASVLVFLICSLPLSIY  
WFWLYWLSLPPMQVLCFSLSRLSSSVSSANPVIYFLVGSRRSHRLPTRSLGTVLQQAL  
REEPELEGGETPTVTGNEMGA

>sp|Q86SM8|MRGRE\_HUMAN Mas-related G-protein coupled receptor member E OS=Homo sapiens  
GN=MRGPPE PE=2 SV=3

MMEPREAGQHVGGAANGAQEDVAFNLIILSLTEGLGLGGLLGNGAVLWLLSSNVYRNPFAI  
YLLDVACADLIFLGCHMVAIVPDLLQGRLDFFPGFVQTSLATLRFICYIVGLSLLAAVSVE  
QCLAALFPAWYSCRPRHLTTCVCALTWALCLLLHLLLSGACTQFFGEPSRHLCRTLWL  
AAVLLALLCCTMCGASLMLLLRVERGPQRPPRGFPGLILLTVLLFLFCGLPFGIYWLSR  
NLLWYIPHYFYHFSFLMAAVHCAAAPVVFCLGSAQGRRPLRLVLQRALGDEAELGAVR  
ETSRRGLVDIAA

>sp|A6NES4|MRO2A\_HUMAN Maestro heat-like repeat-containing protein family member 2A  
OS=Homo sapiens GN=MROH2A PE=4 SV=4

MTEAITEAAVASSEEVSEERDDLGPLELHDSGTFQQVVNLLDIIDSESAKTDTTGAGLDM  
RKTLASVIIMEKATTEPSVINTLIRCLQVPEISTQRKVNIYNILQDIIQQEGELEEQCV  
QRLVAIASKEMREIPEMEGYMKAEVASDTLVALSRNHFSVMYELQHHLKPLNLDEFVI  
ITLAKLANGNVFEFPMYMITLATIFTMLRLANEAKIRQAICSAMETFCETVQFYLKHLE  
ESVYPVMTEEEFALKVFPMYRYFVTWLRHYNPEVKLGVIKSLKPMGLLLPNDDLREQV  
YDYIPLLLAEYQGSLEVLVFTQVLRQILELSVTNTPTVPQMLHTIFTTELHVQVCNKAPA  
QHQQYSSQNLMEMVHCFVALARSYPKELMKFFFSQMETNKEAVRVGTLNLIRAIVSADPR  
MSIRAIYLAIRVVKNTISDTRSKVRMAILHIIGQLALCGYQERIKGWGLKYL SVQLTLST  
YKLTNRREKFYQRDLEERMVHKVTMDTVKIIITSSVSGMTTEFWRLCYIMETDYVEALT  
PICISLTNLAHQHGLHGQDQDVSVAGKSRQVDLPAPQKLLARLLVLMSSPYKGEGRGIAML  
NLLRSLTSSQSIAPSMADMWELEIALLVRYLEEHTFTWDQKAWEDKLIQFLRNSLKKTRGS  
SWSRLSKELNNQIASFSPSLEKGLYRALGFTLATGLEASKVEVLLLELLYKTDYSND  
FDSEGVIMCFGLCARGQVKTVLNVLHDFEERIQESQSWQISAWRKDHPWRRET VKSALM  
VMYSCVASYPQLLLNLVDSPITAKIIHHYVSSQDICKMAFMKS VVQVTKAINNIKD  
LEDHFHAQKTTLSIIIVAVIKAEPTDNLVSPVRALAMEALSHLSKLKPFYSTEENSELMD  
ISIHVSISLQLPGEDNESIKTLYANALSSLEQLMESLLQRQLDPKGLQEMVQLLEKWILS  
EKEWEREKAVSLHLYLMIYVHSTAVCIHLKLGQFGTMVGLIAPCTDAHQRTRMASMN  
LSSLLDLHASQTCSLWGPSKQKELEKCKGDLQSTDVEKIFCASSRIAKVVCMEFSCDEVV

SLIQKLCENTGAMNLQHDKASVTWIAFFLQMRakeLEDKVAEILSAILVHLPVVDHPEVR  
RLIDGILLLAHHHQETILTSLRQPLPMESHlaEVWLAvenVPFARTMLHSLMGRLQS  
RLSPRISATSKADIWRLAAVDPLMTLCTIHLLIQKLDENDKLPDFLPDIYTLLQLGSS  
HRPEAAPVVKMWKLVHTTPLPEEMNLQRVTIKSMQLLFKRVKSQHLAHTLDEQAVWDL  
QDGGTFLEGVSLLARLCMQHVEGHRQLAELVLRGMDSEVLSCRISSTAVCFMSGPVLYQ  
EKLLKPAALLLEKGAHQEEDeALRVLSRALGNMALGAPKKVKYRKVLLEKCLGPLREP  
VNSVTAEGMEALTKILAELREGDVGSSFDAMSEQCRIFFDNESELLRLKAFILFGKLAR  
VVGMSKKHFFKGEVKKAWIPLMLHSQDPCSNAQAQCMATMFQCVHFWGWSLEHPSGPSD  
TATDDKMTVFQTTMCSILTRKKPAVLYRFLLETMAYVKNNLSRIRIAACNLAGIIMKQMS  
THYLKKLDFPALRNSLQELQLDPPDGVRRAALETLTVLDSQSHGFLASPGMS

>sp|A6NGR9|MROH6\_HUMAN Maestro heat-like repeat-containing protein family member 6  
OS=Homo sapiens GN=MROH6 PE=4 SV=2

MAGGVWGRSRAREAPVGALTLTALTEGIRARQGQPQGPPSAGPQPKSWEVKPEAEPQTQA  
LTAPSEAEPGRGATVPEAGSEPCSLNSALEPAEGPHQVPQSSWEEGLADLALYTAACL  
EEAGFACTQATVLTLSALEARGERLEDQVHALVRGLLAQVPSLAEGRPWRAALRVLSAL  
ALEHARDVVCALLPRSLPADRVAAELWRSLSRNQRVNGQVLVQLLWALKGASGPEPQALA  
ATRALGEMLAVSGCVGATRGFYPHLLALVTQLHKLARSPCSPDMPKIWVLSHRGPPHSH  
ASCAVEALKALLTGDDGRMVVTCMEQAGGWRRLVGAHTHEGLVLLASAMVAHADHHLRG  
LFADLLPRLRSADDPQRLTAMAFFTGLLQSRPTARLLREEVILERLLTWQGDPEPTVRWL  
GLLGLGHLALNRRKVRHVSTLLPALLGALGEGDARLVGAALGALRLLLRPRAPVRLLSA  
ELGPRLPPLDDTRDISRASAVGLLGTLVRRGRGGLRLGLRGPLRKLVLQSLVPLLLRLH  
DPSRDAAESSEWTLARCDHAFCWGLLEELVTVAHYDSPEALSHLCCRLVQRYPGHVPNFL  
SQTQGYLRSPQDPLRRAAAVLIGFLVHHASPGCVNQDLLDSLFDLGRLLQSDPKPAVAAA  
AHVSAQQVAMLARARGCPRGPRLRIAPRPAPPPVFADSPFQRRSVAGRWGCSGPRRA

>sp|Q68CQ1|MROH7\_HUMAN Maestro heat-like repeat-containing protein family member 7  
OS=Homo sapiens GN=MROH7 PE=2 SV=4

MALSPGANLVFHEDPKMTPSPSCGAPGLGSGTIPQPHPDMAQVPMLNLLPSPGLALVPD  
LNDSLSPVSGEASGLVSENTPRPDDSRAIAPASLQITSSCSGEALDLDKDVSRPDSQGR  
LCPASNPILSPSSTEAPRLSSGNHPQSNSEDAFKCLSSKIFKLGQRNSNPSRHELNPFI  
HHSREGLVLGHCISRPPSSKALLIPTSNSSLDLDSNPLNMGSRNTSKLNLNVAPDSHGTL  
IPDTNETITLASHNISESVSKGAFSTTWSTSSKETMNVASSGHSRSDLSVTITQASYVT  
IPGSSYGISLHSSSTHEPNSTISPPSCMTLILGSNETLSLDSSLLFSDTSTLTLSQQDDA  
KDNSIHTVPLEENLESWSEMASIKVGQFPLGFPISNPAGKDAVTLQGIPEGAFDEVTSCL  
VKVPEKTEGGNMALVENVTTLQKSQDLLEAEGEKKTMIKKIMRQIQEEPLDSLSSSVRK  
QAMEILTQLSHTQPTLGMRESELVNVCVHSVFSLSVQAMQEKDEAKAETIQALYHQT  
EALQTLKALFIEDPTAGLKSILEALGPWMNSGKAHERARAVNTNVSVLNHMLLTLPFF  
MPLGFPALGLLGRLILHIGDPDEEIGCEALDGIILYTIILELQKRARDKEETNKKELYE  
SNKHFLGPYNPVSPCQNILRVIEEFGDFLGPQQIKDLLLLAALEGLKGSSEAPGKDSREMM  
QLASEVMLSSVLEWYRHRALEVIPEIMQGIYMLSHIQEPRARQVALLPVSLASSFMTE  
VVVALLMCPLPLNSGAEMWRQLILCKPSCDVRDLDDLGLSLKEKPVTKEGRASIVPLA  
AASGLCELLSVNSCMGRVRRIPYQLLLALLIQVHYHIGLNLP GCVAPPKDTKKGAQPSPF  
VPVRWVVKVKTLLLRMGCSYETTFLEDQGGWELMEQVESHHRGVALLARAMVQYSCQEL  
CRILYLLIPLLERGDEKHRITATAFFVELLQMEQVRRIPEEYSLGRMAEGLSHHDPIMKV  
LSIRGLVILARRSEKTAKVKALLPSMVKGLKNMDGMLVVEAVHNLKAVFKGRDQKLMDSA

VYVEMLQILLPHFS DAREVVRSSCINLYGKVQKL RAPRTQAMEEQLVSTLVPLLLTMQE  
GNSKVSQKCVKTLRLCSYFMAWELPKRAYS RKPWDNQQQTVAKICKCLVNTHRDSAFIFL  
SQSLEYAKNSRASLRKCSVMFIGSLVPCMESIMTEDRLNEVKAALDNLRHDPEASVCIYA  
AQVQDHILASCWQNSWLP HGNSWVCYSATTHRWSPSCENLPTSHQRRSWIMQALGSWKMS  
LKK

>sp|Q92887|MRP2\_HUMAN Canalicular multispecific organic anion transporter 1 OS=Homo sapiens GN=ABCC2 PE=1 SV=3

MLEKFCNSTFWNSSFLDSPEADPLCFEQTVLVWIPLGYLWLLAPWQLLHVYKSRTKRSS  
TTKLYLAKQVFVGFLLILAAIELALVLTEDSGQATVPAVRYTNPSLYLGTWLLVLLIYQS  
RQWCVQKNSWFLSLFWILSILCGTFQFQTLIRTLQGDNSNLAYSCLFFISYGFQILILI  
FSAFSENNESSNPPSSIASFLSSITYSWYDSIILKGYKRPLTLEDVWEVDEEMKTKTLVS  
KFETHMKRELQKARRALQRRQEKSSQQNSGARLPGLNKNQSQSDALVLEDVEKKKKKSG  
TKKDVPKSWLMKALFKTFYVMVLLKSFLKL VNDIFTFVSPQLLKLISFASDRDTYLWIG  
YLCAILLFTAALIQSFCLQCYFQLCFKLGVKVRTAIMASVYKKALTLSNLARKEYTVGET  
VNLMSVDAQKLMDVTNFMHMLWSSVLQIVLSIFFLWRELGPSVLAGVGMVLVIPINAIL  
STKSKTIQVKNMKNKDKRLKIMNEILSGIKILKYFAWEP SFRDQVQNLKKELKNLLAFS  
QLQC VVIFVFQLTPVLVSVVTFSVYVLVDSNNILDAQKFTSITL FNILRFPLSMLPMMI  
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IMAGQLVAVIGPVGSGKSSLISAMLGEMENVHGHIITIKGTTAYVPQQSWIQNGTIKDNIL  
FGTEFNEKRYQQVLEACALLPDLEMLPGDLAEIGEGINLSGGQKQRISLARATYQNL  
IYLLDDPLSAVDAHVGKHIFNKVLGPNGLLK GKTRLLVTHSMHFLPQVDEIVVLGNGTIV  
EKGSYSALLAKKGEFAKNLKTFLRHTGPEEEATVHDGSEEEDDDYGLISSVEEIPEDAAS  
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DMRVGVYGALGAQGFVFI AHFWSAAGFVHASNILHKQLLNILRAPMRFFD TTPTGRI  
VNRFAGDISTVDDTL PQSLRSWITCF LGIISTLVMICMATPVFTIIVIPLGIYVSVMF  
YVTSRQLRRLDSVTRSPIYSHFSETVSGLPVIRAFEHQQRFLKHNEVRIDTNQKCVFSW  
ITSNRWLAI RLELVGNLTVFFSALMMVIYRDTLSGDTVGFVLSNALNITQTLNWLVRMTS  
EIETNIV AVERITEYTKVENEAPVWTDKRPPDPWPSKGKIQFNQYQVRYRPELDLVL RGI  
TCDIGSMEKIGVVGRTGAGKSSLTNCLFRILEAAGGQIIIDGVDIASIGLHDLREKLTII  
PQDPILFSGSLRMNLDPFNNYSDEEIWKALELAHLKS FVASLQLGLSHEVTEAGGNLSIG  
QRQLLCLGRALLRKSKILVLDEATAAVDLET DNLIQT TIQNEFAHCTVITIAHRLHTIMD  
SDKVMVL DNGKIIIECGSPEELLQIPGPFYMAKEAGIENVNSTKF

>sp|O95255|MRP6\_HUMAN Multidrug resistance-associated protein 6 OS=Homo sapiens GN=ABCC6 PE=1 SV=2

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GYLRMSPLFKAKMVLGFALIVLCTSSVAVALWKIQQTPEAPEFLIHPTVWLTTMSFAVF  
LIHTERKKGVQSSGVLFGYWLLCFVLPATNAAQQASGAGFQSDPVRHLSTYLC SLVVAQ  
FVLSCLADQPPFFPEDPQQSNPCPETGA AFPSKATFWWVSGLVWRGYRRPLRPKDLWSLG  
RENSSEELVSRLEKEWMRNRSAAARRHNKAI AFKRKGGSGMKAPETEPFLRQEGSQWRPLL  
KAIWQVFHSTFLLGTLSLIISDVFRFTVPKLLSLFLEFIGDPKPPAWKGYLLAVLMFLSA  
CLQTLFEQQNMYRLKVLQMRLSAITGLVYRKVLALSSGSRKASAVGDVVNLVSV DVQRL  
TESVLYLNLWLPLVWIVVCFVYLWQLGPSALTAIAVFLSLLPLNFFISKRNHHQEEQ  
MRQKDSRARLTSSILRNSKTIKFHGWEGAFLDRV LGIRGQELGALRTSGLLFSVSLVSFQ

VSTFLVALVVFVHTLVAENAMNAEKAFVTLTVLNILNKAQAFLPFSIHSLVQARVSFDR  
LVTFLCLEEVDPGVVDSSSSGSAAGKDCITIHSATFAWSQESPPCLHRINLTVPPQGCLLA  
VVGPGVAGKSSLLSALLGELSKVEGFVSIEGAVAYVPQEAQWQNTSVVENVCFGQELDPP  
WLERVEACALQPDVDSFPEGIHTSIGEQGMNLSGGQKQRLSLARAVYRKAQAVYLLDDPL  
AALDAHVGQHVFNQVIGPGGLLQGTTRILVTHALHILPQADWIIIVLANGAIAEMGSYQEL  
LQRKGALMCLLDQARQPGDRGEGETEPGTSTKDPRTSAGRRPELRRERSIKSVPEKDRT  
TSEAQTEVPLDDPDAGWPAGKDSIQYGRVKATVHLAYLRAVGTPLCLYALFLFLCQQA  
SFCRGYWLWADDPAVGGQQTQAALRGGIFGLLGCLQAIGLFASMAAVLLGGARASRL  
FQRLLDVVRSPISFFERTPIGHLNRFKETDITVDVDIPDKLRSLMYAFGLLEVSLVV  
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LVGFSVSAALQVTQTQLQWVVRNWTDLNSIVSVERMQDYAWTPKEAPWRLPTCAAQPP  
WPGGGQIEFRDFGLRYRPELPLAVQGVSKIHAGEKVGIVGRTGAGKSSLASGLLRLQEA  
AEGGIWIDGVPIAHVGLHTRLRSRISIIIPQDPILFPGSLRMNLDLLQEHSDIAWA  
LETQVKALVASLPGQLQYKCADRGEDLSVGQKQLLCLARALLRKTQILILDEATAAV  
DPGTQLQMQLGLGSWFAQCTVLLIAHRLRSVMDCARVLVMDKGQVAESGSPAQLLAQK  
GLFYRLAQESGLV

>sp|P49006|MRP\_HUMAN MARCKS-related protein OS=Homo sapiens GN=MARCKSL1 PE=1 SV=2  
MGSQSSKAPRGDVTAEAAAGASPAKANGQENGHVKSNGDLSPKGESESPPVNGTDEAAGA  
TGDAIEPAPPSQGAQAEAKGEVPPKETPKKKKKFSFKKPKLSGLSFKRNRKEGGDSSASS  
PTEEEQEQQEIGACSDGTAQEGKAAATPESQEPQAKGAEASAASEEEAGPQATEPSTPS  
GPESGPTPASAEQNE

>sp|Q9UKD2|MRT4\_HUMAN mRNA turnover protein 4 homolog OS=Homo sapiens GN=MRT04 PE=1 SV=2  
MPKSKRDKKVSLSLTKTAKKGLELQKQLIEELRKCVDTYKYLFIQSVANMRNSKLKDIRNAW  
KHSMFFGKKNVMMVALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYT  
EMDYARAGNKAFTVSLDPGLEQFPHSMEPQLRQLGLPTALKRGVVTLSDYEVCKEGD  
VLTPEQARVLKLFGEYMAEFKVTIKYMWDSQSGRFQMGDDLPEASASESTEESEDSEDD

>sp|Q9H3V2|MS4A5\_HUMAN Membrane-spanning 4-domains subfamily A member 5 OS=Homo sapiens  
GN=MS4A5 PE=2 SV=1  
MDSSTAHSVPVFLVPPEITASEYESTELSATTFTSQSPLQKLFARKMKILGTIILFGIM  
TFSFGVIFLFTLLKPYRPFPIFLSGYPFWGSVLFINSGAFLIAVKRKTETLIILSRIM  
NFLSALGAIAGIILLTFGFILDQNYICGYSHQNSQCKAVTVLFLGILITLMTFSIIELFI  
SLPFSILGCHSEDCDCEQCC

>sp|Q8NCY6|MSD4\_HUMAN Myb/SANT-like DNA-binding domain-containing protein 4 OS=Homo  
sapiens GN=MSANTD4 PE=1 SV=1  
MKQLKRKRKSNFSVQETQTLLKEITKRKEVIFSKQLNTTINVMKMAWEEIAQCVNAVGE  
GEQRTGTEVKRRYLDWRALMKRKRKMANIKLVGSGFPLPSSDLDDSLTEEIDEKIGFRND  
ANFDWQNVADFRDAGGSLTEVKVEEEERDPQSPEFEIEEEEMLSVIPDSRRENELPDF  
PHIDEFFTLNSTPSRSAYDEPHLLVNIEKQKLELEKRRLDIEAERLQVEKERLQIEKERL  
RHLDMEHERLQLEKERLQIEREKLRLQIVNSEKPSLENELGQGEKSMLQPQDIETEKLLK  
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>sp|O15457|MSH4\_HUMAN MutS protein homolog 4 OS=Homo sapiens GN=MSH4 PE=1 SV=2  
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GDRSSSSSSSLPCPAPNSRPAQGSYFGNKRAYAENTVASNFTFGASSSSARDTNYPQTLKT



PLSTGNPQRSGYKSWTPQVGYSSSSSAISAHSPSVIVAVVEGRGLARGEIGMASIDLKN  
PQIILSQFADNTTYAKVITKLKILSPLEIIMSNTACAVGNSTKLFTLITENFKNVNFTTI  
QRKYFNETKGLEYIEQLCIAEFSTVLMEVQSKYYCLAAVAALLKYVEFIQNSVYAPKSLK  
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DIETINMRLCDVQELLQDEELFFGLQSVISRFLDTEQLLSVLVQIPKQDTVNAESKITN  
LIYLKHTLELVDPLKIAMKNCNTPLLRAYYGSLEDKRFGIILEKIKTVINDDARYMKGCL  
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MTTDCIALPSDQLPSEFIKISKVKNSYSFTSADLIKMNERCQESLREIYHMTYMIVCKLL  
SEIYEHIHCLYKLSDTVSMMLDMLSFHACTLSDYVRPEFTDTLAIKQGWHPILEKISAE  
KPIANNTYVTEGSNFLIITGPNMSGKSTYLKQIALCQIMAQIGSYVPAEYSSFRIAKQIF  
TRISTDDDIETNSSTFMKEMKEIAYILHNANDKSLILIDELGRGTNTEEGIGICYAVCEY  
LLSLKAFTLFATHFLELCHIDALYPNVENMHFEVQHVKNSTRNKEAILYTYKLSKGLTEE  
KNYGLKAAEVSSLPPSIVLDAKEITTQITRQILQNQRSTPEMERQRAVYHLATRLVQTAR  
NSQLDPDLSRIYLSNLKKKYKEDFPRTQVPEKTEE

>sp|Q15800|MSM01\_HUMAN Methylsterol monooxygenase 1 OS=Homo sapiens GN=MSM01 PE=1 SV=1

MATNESVSIFSSASLAVEYVDSLLPENPLQEPFKNAWNYMLNNYTKFQIATWGS LIVHEA  
LYFLFCLPGFLFQFIPYMKKYIKQDKPETWENQWKCFKVLNFHFCIQLPLICGTYFT  
EYFNIPYDWERMPRWYFLLARCFGCAVIEDTWHYFLHRLHHKRIYKYIHKVHHEFQAPF  
GMEA EYAHPLETILGTGFFIGIVLLCDHVILLWAWVTIRLLETIDVHSGYDIPLNPLNL  
IPFYAGSRHHDFFHMFIGNYASTFTWDRIFGTDSQYNAYNEKRKKFEKKTE

>sp|P47224|MSS4\_HUMAN Guanine nucleotide exchange factor MSS4 OS=Homo sapiens GN=RABIF  
PE=1 SV=2

MEPAEQPSELVSAEGRNRKAVLCQRCSRVLQPGTALFSRRQLFLPSMRKKPALSDG SNP  
DGDLLQEHWLVEDMFIFENVGFTKDVGNIKFLVCADCEIGPIGWHCLDDKNSFYVALERV  
SHE

>sp|Q8IVN3|MSTN1\_HUMAN Musculoskeletal embryonic nuclear protein 1 OS=Homo sapiens  
GN=MUSTN1 PE=3 SV=2

MSQAGAQEAPIKKKRPPVKDEDLKGARGNLTKNQEI KSKTYQVMRECEQAGSAAPS VF SR  
TRTG TETVFEKPKAGPTKSVFG

>sp|Q9BYG7|MSTRO\_HUMAN Protein maestro OS=Homo sapiens GN=MRO PE=2 SV=2

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SAKKRHHAMRNLTGMAYEAPDKVRKYKKIVLDLLVYGLYDPVNLEVIHESMKTLT VVLGK  
IQGKGLGSFFIDITLQTRTLLDENDSLRYSAFVLFGQLAAFAGRKWKFFTSQVKQTRD  
SLLIHLQDRNPQVAKACKTTFAQCSPYLKLEEYSFQSEEDQRNTKLYQQLSHYHPEILQ  
FFYANKIL

>sp|P28360|MSX1\_HUMAN Homeobox protein MSX-1 OS=Homo sapiens GN=MSX1 PE=1 SV=3

MAPAADMTSLPLGVKVEDSAFGKPAGGGAGQAPSAAAATAAAMGADEEGAKPKVSPSLLP  
FSVEALMADHRKPGAKESALAPSEGVQAAGGSAQPLGVPPGSLGAPDAPSSPRPLGHFSV  
GGLLKL PEDALVKAESPEKPERTPWMQSPRFSPPPARRLSPPACTLRKHKTNRKPRT PFT  
TAQLLALERKFRQKQYLSIAERA EFSSLSLTETQVKIWFQNRRAKAKRLQEAELEKLKM  
AAK PMLPPAAFGLSFPLGGPAAVAAAAGASLYGASGPFQRAALPVAPVGLYTAHVGYSMY  
HLT

>sp|P07438|MT1B\_HUMAN Metallothionein-1B OS=Homo sapiens GN=MT1B PE=3 SV=1

MDPNCSC TTGGSCACAGSCKCKECKCTSCCKCCSCCPVGCAKCAQGCVCCKGSSEKCRCC

A

>sp|Q93083|MT1L\_HUMAN Metallothionein-1L OS=Homo sapiens GN=MT1L PE=2 SV=1  
MDPNCSCATGGSCSCASSCKCKECKCTSCKKSCCSCCPMGCACQAQGCVCCKGASEKCS

A

>sp|Q96DY7|MTBP\_HUMAN Mdm2-binding protein OS=Homo sapiens GN=MTBP PE=1 SV=1

MDRYLLLVIIWGEKGFPSAASREAEHGPEVSSGEGTENQPDFTAANVYHLLKRSISASINP  
EDSTFPACSVGGIPGSKKWFFAVQAIYGFYQFCSSDWQEIHFDEKDKIEDVLQTNIEEC  
LGAVECFEEDSNSRESLSLADLYEEAAENLHQLSDKLPAPGRAMVDI ILLLSDKDPPKL  
KDYLP TVGALKHLREWYSAKITIAGNHCEINCQKIAEYLSANVVSLEDLRNVIDSKELWR  
GKIQIWERKFGFEISFPEFCLKGVTLKNFSTSNLNTDFLAKKIIPSKDKNILPKVFHYYG  
PALEFVQMIKLSDLPCYMSDIEFELGLTNSTKQNSVLLLEQISSLSKVGFVLPCTI  
SNILIPPPNQLSSRKWKEYIAKKPKTISVPDVEVKGECSYLLQLQNGNRRCKATLIHS  
ANQINGSFALNLIHGKMKTKTEEAKLSFPFDLLSLPHFSGEQIVQREKQLANVQVLAL  
CLKRRKLAKQPETVSAELKSLVLTRKHFLDYFDAVIPKMILRKMDKIKTFNINLDFSP  
VEPNSSSLMETNPLEWPERHVLQNLETFETKQKMRTGSLPHSSEQLLGHKEGPRDSITL  
LDAKELLKYFTSDGLPIGDLQPLPIQKGEKTFVLTPELSPGKLQVLPFEKASVCHYH  
YCLDDRKALERDGGFSELQSRILIRYETQTTCTRESFPVPTVLSPLSPVVSDDPGSV  
PDGEVLQNELRTEVSRLKRRSKDLNCLYPRKRLVKSESSESLLSQTTGNSNHYHHHTSR  
KPKQTERSLPVTCLPVIIPSCETPKLATKTSSGQKSMHESKTSRQIKESRSQKHTRIL  
KEVVTE TLKKHSITETHECFTACSQRLFEISKFYLKDLKTSRGLFEEMKKTANNNAVQ  
VIDWVLEK TSKK

>sp|Q9Y4B5|MTCL1\_HUMAN Microtubule cross-linking factor 1 OS=Homo sapiens GN=MTCL1 PE=1  
SV=5

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PAVPSSGRAPAPAAPRSPNLAGKAPSPGSLAAPGRLSRRSGVPGAKDKPPPGAGARAA  
GGAKAALGSRRAARVAPAEPLSRAGKPPGAEPSSAAAKGRKAKGRSRAPPARTVGPPTPA  
ARIPAVTLAVTSVAGSPARCSRISHTDSSSDLSDCPSEPLSDEQRLLPAASSDAESGTGS  
SDREPPRGAPTPSPAARGAPPGSPEPPALLAAPLAAGACPGGRSIPSGVSGGFAGPGVAE  
DVRGRSPPERPVPPTKEPSLGEQSRVPAEEEEELLREMEELRSENYLKDELDELRAE  
MEEMRDSYLEEDVYQLQELRRELDNRANKNCRIQYRLRKAQKSLKVAETGQVDGELIRS  
LEQDLKVAKDVSVRLHHEKLTVEEKRAKAEDENETLRQQMIEVEISKQALQNELERLKE  
SLKRRSTREMYKEKKTFFNQDDADLRCLQFAKEEAFMRKKMAKLGREKDELEQELQKY  
KSLYGDVDSPLPTGEAGGPPSTREAEKLRLKLVEEEANILGRKIVELEVENRGLKAEME  
DMRGQQEREGPGRDHAPSIPTSPFGDSLESSTELRRHLQFVEEEAELLRRSISEIEDHNR  
QLTHELSKFKFEPPEPGWLGEASPGAGGGAPLQEELKSARLQISELSGKVLKLQHENH  
ALLSNIQRCDLAHLGLRAPSPRSDAESDAGKKESDGEESRLPQPKREGPVGGESDSEE  
MFEKTSFGFGSGKPSEASEPCPTTELLKARESEYLVTLKHEAQRLETRITDTSFLH  
DAGLRGGAPLPGPLQGEEEGEGDQEPQLLGTINAKMKAFFKELQAFLEQVNRIGDGL  
SPLPHL TESSSFLSTVTSVSRDSPIGNLGKELGPDLSRLKEQLEWQLGPARGDERESLR  
LRAARELHRRADGDTGSHLGGQTCFSLEMEEEHLYALRWKELEMHSLALQNTLHERTWS  
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VQGGHQADGPDHSDRGCFPVGEHSPHSRVQIGDHSRLQTADRGPQPHKQVVENQQLFS  
AFKALLEDFAELREDERARLRLQQQYASDKAAWDVEWAVLKCRLEQLEEK TENKL  
GELG SSAESKALKKEREVHQKLLADSHSLVMDLRWQIHHSEKNWNREKVELLDRLDRDRQEW

RQKKEFLWRIEQLQKENSPPRRGGSFLCDQKDGNVPRPFPHQGSRLMPRPVAMWPCADADS I  
PFEDRPLSKLKESDRCSASENLYLDALSLDDEPEEPPAHRPEREFRNRLPEEEENHKGNL  
QRAVSVSMSSEFQRLMDISPFLEKGLPSTSSKEDVTPPLSPDDLKYIEEFNKSWDYTPN  
RGHNGGGPDWLADRTEVGRAGHEDSTEPFPDSSWYLTTSVTMTTDTMTSPEHCQKQPLRS  
HVLTEQSGRLVLHSPPAVRRVDSITAAGGEGPFPTSRARGSPGDTKGGPPEPMLSRWPCT  
SPRHSRDYVEGARPLDSPLCTSLGFASPLHSLEMSKNLSDDMKEVAFSVRNAICSGPGE  
LQVKDMACQTNGSRTMGTQTVQTSVGLQTEALRGSGVTSSPHKCLTPKAGGGATPVSSP  
SRSLRSRQVAPAIEKVQAKFERTCCSPKYGSPKLQRKPLPKADQPNNRTSPGMAQKGYSE  
SAWARSTTTRESPVHTTINDGLSSLFNIIDHSPVVQDPFQKGLRAGSRSRSAEPRPELGP  
GQETGTNSRGRSPSPIGVGSEMCREEGEGTPVKQDLSAPPGYTLTENVARILNKKLLEH  
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>sp|P56278|MTCP1\_HUMAN Protein p13 MTCP-1 OS=Homo sapiens GN=MTCP1 PE=1 SV=1  
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>sp|Q9Y4I5|MTL5\_HUMAN Tesmin OS=Homo sapiens GN=TESMIN PE=1 SV=2  
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EPVLHAFNPALGADCKGQVKAKLAGGDSGGELLGEYPGIPELSALEDVALLQAPQPPAC  
NVHFLSSLLPAHRSPAVLPLGAWVLEGASHPGVRMIPVEIKEAGTTTNNPPEATLQNL  
LAQESCKFPSSQELEDASCCSLKKDSNPMVICQLKGGTQMLCIDNSRTRELKALHLVPQ  
YQDQNNYLQSDVPKPM TALVGRFLPASTKLNLTQQLEGALPSVNGSAFPSGSTLPGP  
KITLAGYCDCFASGDFCNCCNCCNCCNHHDIERFKAIAKACLRNPEAFQPKIGKGQLG  
NVKPQHNGKNCRRSGCLKNYCECYEAQIMCSSICKCIGCKNYEESPERKTLMSMPNYMQ  
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>sp|Q9C0I1|MTMRC\_HUMAN Myotubularin-related protein 12 OS=Homo sapiens GN=MTMR12 PE=1  
SV=2

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YVQEDSCQHGVYGRVCTDFKIAFLGDDESALDND ETQFKNKVI GENDITLHCVDQIYGV  
FDEKKKTLFGQLKKYPEKLIHCKDLRVFQFCLRYTKEEEVKRIVSGI IHHTQAPKLLKR  
LFLFSYATAAQNNVTDPKNHTVMFDTLKDWCWELERTKGNM KYKAVSVNEG YKVCERLP  
AYFVVP TPLPEENVQRFGHGIP IWCWSCHNGSALLKMSALPKEQDDGILQIQKSFLDGI  
YKTIHRPPYEIVKTEDLSSNFLSLQEIQTAYSKFKQLFLIDNSTEFWDTDIKWFSLESS  
SWLDIIRRCLKKAIEITECMEAQNMNVLLEENASDLCCLISSLVQLMMDPHCRTRIGFQ  
SLIQKEWVMGGHCFLDRCNHLRQNDKEEVPVFLFLDCVWQLVHQHPAF EFTETYLTVL  
SDSLYIPIFSTFFNSPHQKDTNMGREGQDTQSKPLNLLTVWDWSVQFEPKAQTLLKNPL  
YVEKPKLDKGQRKGMRFKHQRQLSLPTQSKSSPKRGFFRETDHLIKNLLGKRISKLIN  
SSDELQDNFREYDSWHSKSTDYHGLLLPHIEGPEIKVWAQRYLRWIPEAQILGGGQVAT  
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>sp|Q86WG5|MTMRD\_HUMAN Myotubularin-related protein 13 OS=Homo sapiens GN=SBF2 PE=1 SV=1  
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KQPTFFVVVLTIDSDRHYCSCLTFYEA EINLQGTKKEEIEGEAKVSGLIQPAEVFAPKS  
LVLVSRLYYPEIFRACLGLIYTVYVDSLNVSLIESLIANLCACLVPAAGGSQKLFSLGAGD  
RQLIQTPLHDSLPI TGTSVALLFQQLGIQNVLSLFCAVLTENKVL FHSASFQRLSDACRA

LESLMFPLKYSYPYIPILPAQLLEVLSSPTPFIIGVHSVFKTDVHELDDV I IADLDGGTI  
KIPECIHLSSLPEPLLHQTQSALSILHPDLEVADHAFPPPR TALSHSKMLDKEVRAVFL  
RLFAQLFQGYRSCLQLIRIHAEPVIHFHKT AFLGQRGLVENDFLTKVLSGMAFAGFV SER  
GPPYRSCDLFDELVAFEVERIKVEENNPVKMIKHVRELAEQLFKNENPNPHMAFQKVPRP  
TEGSHLRVHILPFPEINEARVQELIQENVAKNQNAPPATRIEKKCVVPAGPPVVSIMDKV  
TTVFNSAQRLEVVRNCISFIFENKILETEKTLPAALRALKGKAARQCLTDELGLHVQQNR  
AILDHQQFDYIIRMMNCTLQDCSSLEEYNI AAAALLPLTSAFYRKLAPGVSQFAYTCVQDH  
PIWTNQFWETTFYNAVQEQRSLYLSAKEDNHAPHLKQKDKLPDDHYQEKTAMD LA AEQ  
LRLWPTLSKSTQQLVQHEESTVFSQAIHFANLMVNLLVPLDTSKNKLLRTSAPGDWESG  
SNSIVTNSIAGSVAESYDTESGFEDSENTDIANSVVRFITRFDKVCTESGVTQDHIKSL  
HCMIPGIVAMHIETLEAVHRESRRLPPIQKPKILRPALLPGEEIVCEGLRVLLDPDGREE  
ATGGLLGQPQLLPAEGALFLTTRYILFRGTPHDQLVGEQTVVRSFP IASITKEKKITMQN  
QLQQNMQEG LQITSASFQLIKVAFDEEV SPEVVEIFKKQLMKFRYPQSIFSTFAFAAGQT  
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DDDVSVSESELPTSTTLKASEKSTMEQLVEKACFRDYQRLGLGTISGSSSRSRPEYFRI  
TASNRMYSLCRSYPGLLVVPQAVQDSSLPRVARCYRHNRLPVVCWKNSRSGTLLLRSGGF  
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ALSPGVWASLRSSTRLISSPTSFDVGARLAGKDHSASFSSSYLQNQLLKRQAALYIFG  
EKSQLRNFKVEFALNCEFPVPVEFHEIRQVKASFKKLMRACIPSTIPTDSEVTFLKALGDS  
EWFQQLHRIMQLAVVSEVLENGSSVLVCL EEGWDITAQVTSLVQLLSDPFYRTLEGFQM  
LVEKEWLSFGHKFSQRSSLTLNCQGGSFAPVFLQFLDCVHQVHNQYPTFEFENLYYLKFL  
AFHYVSNRFKTFLLDSDYERLEHGTLFDDKGEKHAKKGVCIWECIDRMHKRSPIFFNYLY  
SPLEIEALKPNVNVSS LKKWDYIIEETLSTGPSYDWMMLTPKHFPSESDSLAGEAGPRSQ  
RRTVWPCYDDVSCTQPDALTSLFSEIEKLEHKLNAPEKWQQLWERTV D LKEEPRTDRS  
QRHLSRSPGIVSTNLPSYQKRSLHLPLDSSMGEEQNSSI SPSNGVERR AATLYS QYTSKN  
DENRSFEGTLYKRGALLKGWKPRWFVLDVTKHQLRYYDSGEDTSCKGHIDLA E VEMVIPA  
GPSMGAPKHTSDKAFFDLKTSKR VYNFCAQDQGSAAQQWMDKIQSCISDA

>sp|O60487|MPZL2\_HUMAN Myelin protein zero-like protein 2 OS=Homo sapiens GN=MPZL2 PE=1  
SV=1

MYGKSSTRAVLLLLGIQLTALWPIAAVEIYTSRVLEAVNGTDARLKCTFSSFAPVGDALT  
VTWNFRPLDGGPEQFVFYYHIDPFQPM SGRFKDRVSWDGNPERYDASILLWKLQFDDNGT  
YTCQVKNPDPDVGIVGEIRLSVVHTVRFSEIHFLALAI GSACALMIIIVIVVVL FQH YRK  
KRWAERAHKVVEIKSKEEERLNQEKKVS VYLEDTD

>sp|Q9UBG0|MRC2\_HUMAN C-type mannose receptor 2 OS=Homo sapiens GN=MRC2 PE=1 SV=2

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QVRVTPACNTSLPAQRWKVSRNRLFNLGTMQCLGTGWP GTNTTASLGM YECDREALNLR  
WHCRTLG DQLSLLL GARTSNISKPGTLERG DQTRSGQWRIYGSEEDLCALPYHEVYTIQG  
NSHGK PCTIPFKYDNQWFHGCTSTGREDGHLWCATTQDYGKDERWGF C PIKSND CET FWD  
KDQLTDSCYQFNQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL  
NDLDTSGGWQWSDNSPLKYNWESDQPDNPSEENCGVIRTESSGGWQNRDCSIALPYVCK  
KKPNATAEPTPPDRWANVKVECEPSWQPFQGH CYRLQAEKRSWQESKKACLRGGGDLVSI  
HSM AELEFITKQIKQEVEELWIGLNDLKLQMNFEWSDGSLVSFTHWHPFEPNNFRDSLED  
CVTIWGP EGRWNDS PCNQSLPSICKKAGQLSQGAAEEDHGCRKGWTWHSPSCYWLGEDQV  
TYSEARRLCTDHGSQLVTITNRFEQAFVSSLIYNWEGEYFWTALQDLNSTGSFFWLSGDE

VMYTHWNRDQPGYSRGGCVLATGSAMGLEVKNCTSFRRARYICRQSLGTPVTPELPGPD  
PTPSLTGSCPGWASDTKLRYCYKVFSSERLQDKKSWVQAQGACQELGAQLLSLASYEEE  
HFVANMLNKIFGESEPEIHEQHFWIGLNRDRPRGGQSWRWSGVDGVSFYNFDRSRHDDD  
DIRGCAVLDLASLQVWAMQCDTQLDWICKIPRGTDVREPDDSPQGRREWLRFQEAQYKFF  
EHHSTWAAQRICTWFQAE LTSVHSQAELDFLSHNLQKFSRAQEQHWWIGLHTSESDGRF  
RWTGDSIINFISWAPGKPRPVGDKKCVYMTASREDWGDQRCLTALPYICKRSNVTKETQ  
PPDLPTTALGGCPSDWIQFLNKCQVQGGQEPQSRVKWSEAFQSCQEAQLVTITNPLEQ  
AFITASLPNVTFDLWIGLHASQRDFQWVEQEPLMYANWAPGEPSPGSPAPSGNKPTSCAV  
VLHSPSAHFTGRWDDRSCTEETHGFICQKGTDPSPSPALPPAPGTELSYLNFTFRL  
QKPLRWHDAALLCESRNASLAYVPDPTQAFLTQAARGLRTPLWIGLAGEEGSRRYSWVS  
EEPLNYVGWQDGEPPQGGCTYVDVDGAWRTTSCDTKLQGAVCGVSSGPPPPRRISYHGS  
CPQGLADSAWIPFREHCYSFHMELLLGHKEARQRCRAGGAVLSILDEMENVFVWEHLQS  
YEGQSRGAWLGMNFPKGGTLVWQDNTAVNYSNWGPPGLGPSMLSHNSCYWISNSGLWR  
PGACTNITMGVVCKLPRAEQSSFSALPENPAALVVVLMVLLLLALLTAALILYRRRQ  
SIERGAFEGARYSRSSSPTEATEKNILVSDMEMNEQQE

>sp|Q6P1R3|MSD2\_HUMAN Myb/SANT-like DNA-binding domain-containing protein 2 OS=Homo sapiens GN=MSANTD2 PE=1 SV=1

MAAPCGSELPANSPLKIPKMEVLSPASPGGLSDGNPSLSDPSTPRGASPLPGPSAAGSGA  
AASGGLGLGLGGRSAASSSVSFSPGGGGGAAAAAAACRGMSWTPAETNALIAVWGNER  
LVEARYQQLEGAGTVFGSKAPGAMYERVSRAELGYERTPSQCRERIKTLRRCYSRVK  
EHGVGKRKSSYTFEQLEQVFGGGWDAQPCQPVLINSSGLYQELES DGSTMEDYSQEDWG  
NHSQDLHGYP TDQELDEIPVTKRTLKIKQESSEEAQKRDIMQNIQIILESVQLKWELFQS  
WTFDSRLHLSNKLAI FGI GYNTRWKEDIRYHYAEISSQVPLGKRLREYFNSEKPEGRIIM  
TRVQKMNWKNVYYKFLEITISEARCLELHMEIDWIPIAHSKPTGGNVVQYLLPGGIPKSP  
GLYAIGYEECIERPLSPHMEQSSLDPGKEGRVDLETLSAQASLQVEIEPTRIIYCYLGIA  
EVRTLQQCLFLHFQANTKTFSKDWVGINGFLSQNCIVDPGVSPKSIYIKFVEVERDFLSA  
GSLVECLEKAIGYPLKFNN

>sp|P20585|MSH3\_HUMAN DNA mismatch repair protein Msh3 OS=Homo sapiens GN=MSH3 PE=1 SV=4

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AAPPAPPAPAFPPQLPPIATEIDRRKKRPLENDGPVKKKVKVQVQKEGGSDLGMSGNSE  
PKKCLRTRNVSKSLEKLKEFCCDSALPQSRVQTESLQERFAVL PKCTDFDDISLLHAKNA  
VSEDSKRQINQKDTLFDLSQFGSSNTSHENLQKTASKSANKRSKSIYTPLELQYIEMK  
QQHKDAVLCVECGYKRRFFGEDAEIAARELN IYCHLDHNFMTASIPTHRLFVHVRLVAK  
GYKGVVVKQTETAALKAIGNRSSLSRKL TALT YTKSTLIGEDVNPLIKLDDAVNVDEIM  
TDTSTSYLLCISENKENVRDKKGNIFIGIVGVPATGEVVFDSFQDSASRSELETRMSS  
LQPVELLPSALSEQTEAL IHRATSVSVQDDRIRVERMDNIYFEYSHAFQAVTEFYAKDT  
VDIKGSQIISGIVNLEKPVICSLAAI IKYLKEFNLEKMLSKPENFKQLSSKMEFMTINGT  
TLRNLEILQNQDMTKGSLLVLDHTKTSFGRRKLKKWVTQPLLKLREINARLDAVSEV  
LHSESVFGQIENHLRKL PDIERGLCSIYHKKCSTQEFLIVKTLYHLKSEFQAIIPAVN  
SHIQSDLLRTVILEIPELLSPVEHYLKILNEQA AKVGDKTELFDLSDFPLIKKRKDEIQ  
GVIDEIRMHLEIRKILKNPSAQYVTVSGQEFMIEIKNSAVSCIPTDWVKVGSTKAVSRF  
HSPFIVENYRHLNQLREQLVLDCSAEWLDFLEKFSEHYHSLCKAVHHLATVDCIFSLAKV  
AKQGDYCRPTVQEERKIVIKNGRHPVIDVLLGEQDQYVPNNTDLSEDSERVMIITGPNMG  
GKSSYIKQVALITIMAQIGSYVPAEEATIGIVDGIFTRMGAADNIYKGQSTFMEELDTA

EIIRKATSQSLVILDELGRGTSTHDGIAIAYATLEYFIRDVKSLLTFVTHYPPVCELEKN  
YSHQVGNVHMGFLVSEDESKLDPGAAEQVPDFVTFLYQITRGIAARSYGLNVAKLADVPG  
EILKKAHKSKEGLEINTKRRLKYFAKLWTMHNADLQKWTEEFNMEETQTSLLH

>sp|Q68DK7|MSL1\_HUMAN Male-specific lethal 1 homolog OS=Homo sapiens GN=MSL1 PE=1 SV=3

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SSQGGSPASPAGCGGKGRGLLPAGAAPGQQEESWGGSVPLPCPPATKQAGIGGEPA  
AGAGCSPRPKYQAVLPITGTSLVAAAKEPTPWAGDKGGAASPAATASDPAGPPPLPLPGP  
PPLAPTATAGTLAASEGRWKS MRKSPLGGGGSGASSQAACLKQILLQLDLIEQQQQQL  
QAKEKEIEELKSERDTLLARIERMERMQLVKKDNEKERHKLFGYETEEREETELSEKI  
KLECQPELSETSQLPPKPFSCGRSGKGHKRKSPFGSTERKTPVKKLAPEFSKVKTTPK  
HSPIKEEPCGSLSETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGPSTHPKEAFSSEI  
EDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVARCLMPSSVAGETSVLAVPSWRD  
HSVEPLRDPNPSDLLENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQLRMYK  
KKGIQESEPEVTSFFPEPDDVESLMITPFLPVVAFGRPLPKLTPQNFELPWLDERSRCL  
EIQKKQTPHRTCRL

>sp|Q9BUK6|MSTO1\_HUMAN Protein misato homolog 1 OS=Homo sapiens GN=MSTO1 PE=1 SV=1

MAGGAREVLTQLGHFAGFVGAWWNQDAAALGRATDSKEPPGELCPDVLRYRTGRTLHGQ  
ETYTPRLILMDLKGSLSSLKEEGLYRDKQLDAAIAWQGLTTHKEELYPKNPYLQDFLS  
AEGVLSSDGVWRVKSIPNGKGSPLPTATTPKPLIPTEASIRVWSDFLRVHLHPRSICMI  
QKYNHDGEAGRLEAFQGQESVLKEPKYQEELEDRLHFYVEECDYLQGFQILCDLHDFSG  
VGAKAAELLQDEYSGRGIITWGLLPGPYHRGEAQRNIYRLLNTAFGLVHLTAHSSLVCPL  
SLGGSGLRPEPPVSFPYLHYDATLPFHCSAILATALDVTVPYRLCSSPVSMVHLADML  
SFCGKKVVTAGAIIPFPLAPGQSLPDSLMQFGGATPWTPLSACGEPSGTRCFAQSVVLRG  
IDRACHTSQLTPGTPPPSALHACTTGEEILAQYLQQQPGVMSSSHLLTPCRVPAPPYPH  
LFSSCSPPGMVLDSGPKGAIVESIPVFGALCSSLHQTLEALARDLTKLDLRRWASFMD  
AGVEHDDVAELLQELQSLAQCYQGGDSLVD

>sp|Q06455|MTG8\_HUMAN Protein CBFA2T1 OS=Homo sapiens GN=RUNX1T1 PE=1 SV=2

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RQLSKLKRFLTTLQFGNDISPEIGERVRTLVLGLVNSTLTIEEFHSLKQEATNFPLRPF  
VIPFLKANPLLQRELLHCARLAKQNPAYLAQHEQLLLDASTTSPVDSSELLLDVNENG  
KRRTPDRTKENGFDREPLHSEHPSKRPCTISPGQRYSPNGLSYQPNGLPHPTPPPPQHY  
RLDDMAIAHHYRDSYRHPSHRDLRDRNRPMLHGTRQEEMIDHRLTDREWAEEWKHLDDL  
LNCIMDMVEKTRRSLTVLRRCQEADEELNYWIRRYSDAEDLKKGGGSSSSHSRQQSPVN  
PDPVALDAHREFLHRPASGYVPEEIWKKAEEAVNEVKRQAMTELQKAVSEAERKAHDMIT  
TERAKMERTVAEAKRQAAEDALAVINQQEDSSESCWNCGRKASETCGCGNTARYCGSFCQ  
HKDWEKHHHICGQTLQAQQQGDTPAVSSSVTPNSGAGSPMDTPPAATPRSTTPGTPSTIE  
TTPR

>sp|Q9NYA4|MTMR4\_HUMAN Myotubularin-related protein 4 OS=Homo sapiens GN=MTMR4 PE=1 SV=2

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PAKPEDLFAFAYHAWCLGLTEEDQHTLCQGEHIRCRQEAELARMGFDLQNVWRVSHIN  
SNYKLCPSYPQKLLVPVWITDKELENVAFRSWKRIPVVVYRHLRNGAAIARCSQPEISW  
WGWRNADDEYLVTSIAKACALDPGTRATGGSLSTGNNDTSEACDADFSSLTACSGVEST

AAPQKLLILDARSYTAAVANRAKGGGCECEEYYPNCEVFMGMANIHAIRNSFQYLRAVC  
SQMPDPSNWLSALESTKWLQHLVMLKAAVLVANTVDREGRPVLVHCSDGWDRTQPIVAL  
AKILLDPYYRTLEGFQVLVESDWLDFGHKFGDRCGHQENVEDQNEQCPVFLQWLDSVHQL  
LKQFPCLFEFNEAFLVKLVQHTYSCLYGTFLANNPCEREKRNİYKRTCSVWALLRAGNKN  
FHNFLYTPSSDMVLHPVCHVRALHLWTAVYLPASSPCTLGEENMDLYLSPVAQSQEFSGR  
SLDRLPKTRSMDDLSSACDTSSPLTRTSSDPNLNNHCQEVVRVGLPEWHSNPEGSETSFVD  
SGVGGPQQTVGEVGLPPPLSSQKDYLSENKPFKSHKSCSPSYKLLNTAVPREMKSNTSDP  
EIKVLEETKGPAPDPSAQDELGRITLDGIGEPPEHCPETEAVSALSKVISNKCDGVCNFPE  
SSQNSPTGTPQQAQPDMSLVGPKCVLDHSLSTVCNPPSAACQTPLDPSTDFLNQDPSGS  
VASISHQEQLSSVPLDTHGEEDIGKRGNNRNGQLLENPRFGKMPLELVRKPISSQSISEF  
SFLGSNWDSFGQMVTSFPGSEATPRRLSYGCCSKRPNSKQMRATGPCFGGQWAQREGVK  
SPVCSHSHNGHCTGPGGKNQMWLSSHPKQVSSTKPVPLNCPSPVPPLYLDDGLPFPTDV  
IQHRLRQIEAGYKQEVEQLRRQVRELQMRDIRHCCAPPAEPPMDYEDDFTCLKESDGSD  
TEDFGSDHSEDCLSEASWEPVDKKETEVTRWVPDHMAHSHCYNCDCEFWLAKRRHHCRCNG  
NVFCAGCCHLKLIPDQQLYDPVLCNSCYEHIQVSRARELMSQQLKKPIATASS

>sp|095248|MTMR5\_HUMAN Myotubularin-related protein 5 OS=Homo sapiens GN=SBF1 PE=1 SV=3

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PERNPPTFFVAVLTDINSERHYCACLTFWEPAPSQETTRVEDATEREEEGDEGGQTHLSPTA  
PAPSAQLFAPKTLVLVSRLDHTVEFRNSLGLIYAIHVEGLNVCLENVIGNLLTCTVPLAG  
GSQRTISLGAGDRQVIQTPLADSLPVSRCSVALLFRQLGITNVLSLFCALTEHKVFLS  
RSYQRLADACRGLLALLFLPRYSFTYVPIPAQLLEVLSTPTPIIGVNAAFQAETQELL  
DVIVADLDGGTVTIPECVHIPPLPEPLQSQTHSVLSMVLDPLELADLAFPPPTTSTSSL  
KMQDKELRAVFLRLFAQLLQGYRWCLHVRIHPEPVIRFHKAFLGQRGLVEDDFLMKVL  
EGMAFAGFVSERGVPYRPTDLFDELVAHEVARMRADENHPQRVLRHVQELAEQLYKNENP  
YPAVAMHKVQRPGESSHRRVPRFPRLDEGTVQWIVDQAAAKMQGAPPAVKAERTTVP  
SGPPMTAILERCSGLHVNSARRLEVVRNCISYVFEGKMLEAKKLLPAVLRALKGRAARRC  
LAQELHLHVQQNRAVLDDHQQDFVVRMMNCCLQDCTSLDEHGIAAALLPLVTAFCRKLSP  
GVTQFAYSCVQEHHVWSTPQFWEAMFYGDVQTHIRALYLEPTEDLAPAEVGEAPSQEDE  
RSALDVASEQRRLWPTLSREKQQLVQKEESTVFSQAIHYANRMSYLLPLDSSKSRLLR  
ERAGLDLESASNSLVTNMAGSVAESYDTESGFEDAETCDVAGAVVRFINRFVDKVCTE  
SGVTSDDLKGLHVMVPDIVQMHIETLEAVQRESRRLPIQKPKLLRPRLPGEECVLDGL  
RVYLLPDGREGAGGSAGGPALLPAEGAVFLTTRYVIFTGMPTDPLVGEQVVVRSFPVAA  
LTKEKRISVQTPVDQLLDGLQLRSCTFQLLKMAFDEEVGSDSAELFRQLHKLRYPPDI  
RATFAFTLGSHTPRPPRVTKDKGPSRLTSLRNLVKNAKKTIGRQHVTTRKKYNPPSWEH  
RGQPPPEDQEDEISVSEELPSTLTPSSALKPSDRMTMSSLVERACCRDYQRLGLGLTSS  
SLSRASEPFRIQSPVNRMYAICRSYPGLLIVPQSVQDNALQRVSRQYRQNRFPVVCWRSG  
RSKAVLLRSGGLHGKGVVGLFKAQNPSPGQSQADSSSLEQEYQLQAVVSSMPRYADASG  
RNTLSGFSSAHMGSHGKWSVRTSGRSSGLGTDVGSRLAGRDALAPPQANGGPPDPGFLR  
PQRAALYILGDKAQLKGVRSDDLQWELVPIEVFEARQVKASFKKLLKACVPGCPAAEPS  
PASFLRSLDSEWLIQIHKLLQVSVLVVELLDGSSVLVGLDGDWIDITQVVSLVQLLSD  
PFYRTLEGFRLLVEKEWLSFGHRFSGHGAHTLAGQSSGFTPVFLQFLDCVHQVHLQFPME  
FEFSQFYLKFLGYHHVSRFRFTLLDSDYERIELGLLYEEKGERRGQVPCRSVWEYVDRL  
SKRTPVFHNYMYAPEDAELVRPYSNVSNLKVWDFYTEETLAEGPPYDWELAQQPPEPPEE  
ERSDGGAPQSRRRVVWPCYDSCPRAQPDASRLLEELQRLLETGQPAERWKDTWDRVKA

AQRLEGRPDGRGTPSSLLVSTAPHHRRSLGVYLQEGPVGSTLSLSLSDSQSSGSTTSGSR  
QAARRSTSTLYSQFTAENSENRSYEGTLYKKGAFMKPWKARWFLDKTKHQLRYYDHRVD  
TECKGVIDLAEVEAVAPGPTMGAPKTVDEKAFFDVKTTRRVYNFCAQDVPSAQQWVDRI  
QSCLSDA

>sp|Q9Y216|MTMR7\_HUMAN Myotubularin-related protein 7 OS=Homo sapiens GN=MTMR7 PE=1 SV=3

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QATTATGCPLLRCKNFQIIQLIIPQERDCHDVYISLIRLARPVKYEELYCFSFNPMLDK  
EEREQGWVLIDLSEYTRMGLPNHYWQLSDVNRDVRVCDYPTELYVPKSATAHIIVGSS  
KFRSRRRFPVLSYYYKDNHASICRSSQPLSGFSARCLEDEQMLQAIRKANPGSDFVYVVD  
TRPKLNAMANRAAGKGYENEDNYSNIKFQFIGIENIHVMRNSLQKMLEVCELKSPSMSDF  
LWGLENSGWLRIKAIMDAGIFIAKAVSEEGASVLVHCSDGWDRTAQVCSVASLLLDPHY  
RTLKGMVLLIEKDWISFGHKFNHRYGNLDGDPKEISPVIDQFIECVWQLMEQFPCAFEFN  
ERFLIHQHHIYSCQFGNFLCNSQKERRELKIQERTYSLWAHLWKNRADYLNPLFRADHS  
QTQGTLLHLPPTPCNFMYKFWSGMYNRFEGMKMPRQSVTDYLMVKEETQQLEEELEALEE  
RLEKIQKVQLNCTKVSKQSEPSKHSGFSTSDNSIANTPQDYSGNMKSFPSRSPSQGDED  
SALILTQDNLKSSDPDLSANSQESGVEDLSCRSPSGGEHAPSEDSGKDRDSDEAVFLTA

>sp|Q96EF0|MTMR8\_HUMAN Myotubularin-related protein 8 OS=Homo sapiens GN=MTMR8 PE=1 SV=1

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EMRESGWKLIDPISDFGRMGIPNRNWTITDANRNYEICSTYPPEIVVPKSVTLGTVVGSS  
KFRSKERVVLSYLYKENNAICRCSQPLSGFYTRCVDELLEAISQTNPGSQFMYVVD  
TRPKLNAMANRAAGKGYENEDNYANIRFRFMGIENIHVMRSSLQKLELVCELKPTMSEF  
LSGLESSGWLRIKAIMDAGIFITKAVKVEKASVLVHCSDGWDRTAQVCSVASILLDPFY  
RTFKGLMILIEKEWISMGHKFSQRCGHLDGDSKEVSPIFTQFLDCIWQLMEQFPCAFEFN  
ENFLLEIHDHVFSCQFGNFLGNCQKDREDLRVYEKTHSVWPFLVQRKPDFRNPLYKGFTM  
YGVLPSTVPYNIQFVCGMYNRFDKGLQPKQSMLESLEIKKQRAMLETDVHELEKKLV  
RDEPPEEICTCSQLGNILSQHLGSPLTNPLGFMGINGDLNTLMENGTLSREGGLRAQMDQ  
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>sp|Q9NXD2|MTMRA\_HUMAN Myotubularin-related protein 10 OS=Homo sapiens GN=MTMR10 PE=1  
SV=3

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QYDLWGKLICSNFKISFITDDPMPLQKFHYRNLLGEHDVPLTCIEQIVTVNDHKRKQKV  
LGPNQKLKFNPTELIYCKDFRIVRFRFDESGPESAKKVCLAIAHYSQPTDLQLLFAFEY  
VGKKYHNSANKINGIPSGDGGGGGGGNGAGGGSSQKTPLFETYSDWDREIKRTGASGWR  
VCSINEGYMISTCLPEYIVVPSSLADQDLKIFSHSFVGRMPLWCWSHNGSALVRMALI  
KDVLLQQRKIDQRICNAITKSHQQRSDVYKSDLDKTLPNIQEVQAAFVKLKQLCVNEPFEE  
TEEKWLSSLENTRWLEYVRAFLKHSALVYMLESKHLVSVLQEEEGRDLSCCVASLVQVM  
LDPYFRTITGFQSLIQKEWVMAGYQFLDRCNHLKRSEKESPLFLLFLDATWQLLEQYPAA  
FEFSETYLAVLYDSTRISLFGTFLFNSPHQRVKQSTEFATSKNIQLGDEKGLKFPVVDW  
SLQFTAKDRTLHNPFYIGKSTPCIQNGSVKSFKRTKSYSSTLRGMPSALKNGIISDQE  
LLPRRNSLILKPKPDPAQQTDSQNSDTEQYFREWFSKPANLHGVILPRVSGTHIKLWKLC  
YFRWVPEAQISLGSITAFHKLSSLADEVDVLSRMLRQQRSGPLEACYGELGQSRMYFNA  
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>sp|P98088|MUC5A\_HUMAN Mucin-5AC OS=Homo sapiens GN=MUC5AC PE=1 SV=4

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QLRRSQESAAPTLSRVLMKVDGVVIQLTKGSVLVNGHPVLLPFSQSGVLIQQSSSYTKVE  
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SRACEDHCVAGCFCEGTVLDDIGQTGCVPVSKCACVYNGAAYAPGATYSTDTNCTCSG  
GRWSCQEVPCPGTCSVLGGAHFSTFDGKQYTVHGDCSYVLTKPCDSSAFTVLAELRRCGL  
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TCNCERSEDCLCAALSSYVHACAAKGVQLGGWRDGVCTKPMTTCPKSMYHYHVSTCQPT  
CRSLSEGDITCSVGFIPVDGICPKGTFLDDTGKCVQASNCPCYHRGSMIPNGESVHDSG  
AICTCTHGKLSICGGQAPAPVCAAPMVFFDCRNATPGDTGAGCQKSCHTLDMTCYSPQCV  
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FINLSPEFKGRVCGLCGNFDDIAVNDFATRSRSVVGDVLEFGNSWKLSPSCPDALAPKDP  
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CTERGVECTYKAEACVCTYNGQRFHPGDVIYHTTDGTGGCISARCGANGTIERRVYPCSP  
TTPVPPTTFSFSTPPLVVSSTHTPSNGPSSAHTGPPSSAWPTTAGTSPRTRLPTASASLP  
PVCGEKCLWSPWMDVSRPGRGTDSDGFDLTLENLRAHGYRVCESPRSVECRAEDAPGVPLR  
ALGQRVQCSQPDVGLTCRNREQASGLCYNQIRVQCCTPLPCSTSSSPAQTTPPTTSKTTE  
TRASGSSAPSSTPGTVSLSTARTTPAPGTATSVKKTFTSPSPPPVPATSTSSMSTTAPGT  
SVVSSKPTPEPTSSSCLQELCTWTEWIDGSYPAPGINGGDFDTFQNLRDEGYTFCESPR  
SVQCRAESFPNTPLADLGQDVICSHTGLICLNKNQLPPICYNYEIRIQCETVNVCRDI  
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>sp|Q8TAX7|MUC7\_HUMAN Mucin-7 OS=Homo sapiens GN=MUC7 PE=1 SV=2

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>sp|P04220|MUCB\_HUMAN Ig mu heavy chain disease protein OS=Homo sapiens PE=1 SV=1

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>sp|Q99551|MTEF1\_HUMAN Transcription termination factor 1, mitochondrial OS=Homo sapiens  
GN=MTERF1 PE=1 SV=1

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>sp|Q49AM1|MTEF2\_HUMAN Transcription termination factor 2, mitochondrial OS=Homo sapiens  
GN=MTERF2 PE=1 SV=2

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VEKNKQMVRIQESYLDVGGSEANMKVWLLKLLSQNPFIILLNSPTAIKETLEFLQEQGFT  
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>sp|Q9UDX5|MTFP1\_HUMAN Mitochondrial fission process protein 1 OS=Homo sapiens GN=MTFP1  
PE=1 SV=1

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>sp|Q6P444|MTFR2\_HUMAN Mitochondrial fission regulator 2 OS=Homo sapiens GN=MTFR2 PE=1  
SV=2

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>sp|P49914|MTHFS\_HUMAN 5-formyltetrahydrofolate cyclo-ligase OS=Homo sapiens GN=MTHFS  
PE=1 SV=2

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>sp|Q8NCE2|MTMRE\_HUMAN Myotubularin-related protein 14 OS=Homo sapiens GN=MTMR14 PE=1  
SV=2

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>sp|Q9BV20|MTNA\_HUMAN Methylthioribose-1-phosphate isomerase OS=Homo sapiens GN=MRI1 PE=1  
SV=1

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>sp|P42345|MTOR\_HUMAN Serine/threonine-protein kinase mTOR OS=Homo sapiens GN=MTOR PE=1  
SV=1

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>sp|P58546|MTPN\_HUMAN Myotrophin OS=Homo sapiens GN=MTPN PE=1 SV=2  
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>sp|E2RYF6|MUC22\_HUMAN Mucin-22 OS=Homo sapiens GN=MUC22 PE=1 SV=2

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>sp|Q02817|MUC2\_HUMAN Mucin-2 OS=Homo sapiens GN=MUC2 PE=1 SV=2

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>sp|P15173|MYOG\_HUMAN Myogenin OS=Homo sapiens GN=MYOG PE=1 SV=2  
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>sp|Q9UBF9|MYOTI\_HUMAN Myotilin OS=Homo sapiens GN=MYOT PE=1 SV=2  
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>sp|Q9NPC6|MYOZ2\_HUMAN Myozenin-2 OS=Homo sapiens GN=MYOZ2 PE=1 SV=1  
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>sp|Q86UW6|N4BP2\_HUMAN NEDD4-binding protein 2 OS=Homo sapiens GN=N4BP2 PE=1 SV=2  
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>sp|Q8WVE0|N6MT2\_HUMAN Protein-lysine N-methyltransferase N6AMT2 OS=Homo sapiens  
GN=N6AMT2 PE=1 SV=1

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>sp|Q96GX9|MTNB\_HUMAN Methylthioribulose-1-phosphate dehydratase OS=Homo sapiens GN=APIP  
PE=1 SV=1

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>sp|Q9H3R2|MUC13\_HUMAN Mucin-13 OS=Homo sapiens GN=MUC13 PE=1 SV=3

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>sp|Q8N387|MUC15\_HUMAN Mucin-15 OS=Homo sapiens GN=MUC15 PE=2 SV=2

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>sp|Q8WXI7|MUC16\_HUMAN Mucin-16 OS=Homo sapiens GN=MUC16 PE=1 SV=3

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[illegible]

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AV

>sp|Q9NX53|MUT7B\_HUMAN Exonuclease mut-7 homolog, isoform 5 OS=Homo sapiens GN=EXD3 PE=1  
SV=2

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>sp|Q8N9H8|MUT7\_HUMAN Exonuclease mut-7 homolog OS=Homo sapiens GN=EXD3 PE=2 SV=3

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>sp|Q8TBZ2|MYBPP\_HUMAN MYCBP-associated protein OS=Homo sapiens GN=MYCBPAP PE=1 SV=2

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TH  
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GIKDKEDKKGAKLLGKEDRPNSKKHKAKDDKKVKSASQDRFSLEDPTPDIILSSQEPID  
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>sp|P12525|MYCP1\_HUMAN Putative myc-like protein MYCLP1 OS=Homo sapiens GN=MYCLP1 PE=5  
SV=2

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FATPDYTPLEAGNLAPIFPCLLGEPKIQACSRSESPDSEGEEIDVTVKKRQSLSTRKP  
VIIAVRADLLDPRMNLFHISIHQQQHNYAAPFPPESCFQEGAPKRMPPKEALEREAPGGK  
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EVPALASCSRVSVMILVKATEYLHELAEAEERMATEKRQLECQRRQLQKRIEYLSSY

>sp|P04732|MT1E\_HUMAN Metallothionein-1E OS=Homo sapiens GN=MT1E PE=1 SV=1

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A

>sp|P13640|MT1G\_HUMAN Metallothionein-1G OS=Homo sapiens GN=MT1G PE=1 SV=2

MDPNCSCAAAGVSCTCASSCKCKECKCTSCKKSCCSCPVGCAKCAQGCICKGASEKSCC  
CA

>sp|Q8N339|MT1M\_HUMAN Metallothionein-1M OS=Homo sapiens GN=MT1M PE=3 SV=2

MDPNCSCCTTGVSCTGCTCKECKCTSCKKSCCSCPVGCAKCAHGCVC KGTLENCSCC  
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>sp|Q8WXB1|MT21A\_HUMAN Protein N-lysine methyltransferase METTL21A OS=Homo sapiens  
GN=METTL21A PE=1 SV=2

MALVPYEETTEFGLQKFHKPLATFSFANHTIQIRQDWRHLGVA AVVWDAAIVLSTYLEMG  
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>sp|Q5VZV1|MT21C\_HUMAN Protein-lysine methyltransferase METTL21C OS=Homo sapiens  
GN=METTL21C PE=1 SV=1

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AGPGLVSIVASILGAQVTATDLPDVLGNLQYNLLKNTLQCTAHLPEVKELVWGEDLDKNF  
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>sp|P25713|MT3\_HUMAN Metallothionein-3 OS=Homo sapiens GN=MT3 PE=1 SV=1

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AEKSCCCQ

>sp|O94776|MTA2\_HUMAN Metastasis-associated protein MTA2 OS=Homo sapiens GN=MTA2 PE=1  
SV=1

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NGYDLAKAMSTLVPQGGPVLCRDEMEEWSASEAMLFEAELEKYGKDFNDIRQDFLPWKS  
ASIVQFYMWKTTDRYIQQKRLKAAEADSKLKQVYIPTYTKPNPNQIISVSGSKPGMNGAG  
FQKGLTCESCHTTQSAQWYAWGPPNMQCRLCASCWIIYWKYGGKLTPTQLEGATRGTTEP  
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RPYAPINANAIAECSIRLPKAAKTPLKIHPLVRLPLATIVKDLVAQAPLKPKTPRGTKT  
PINRNQLSQNRGLGIMVKRAYETMAGAGVPFSSANGRPLASGIRSSSQPAKRQKLNPA  
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NEPIVLED

>sp|O43312|MTSS1\_HUMAN Metastasis suppressor protein 1 OS=Homo sapiens GN=MTSS1 PE=1 SV=2

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QLDKDHAKEYKKARQEIKKKSSDTLKLQKKAKKGRGDIQPQLDSALQDVNDKYLLLEETE  
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EQVILD LKGS DYSWYQTPSSPSTTMSRKSSVCSSLNSVNSSDSRSSGSHSHSPSSH  
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VGPTGAGLFPCHLPASRLLPRVTSVHLPDYAHYYTIGPGMFSSQIPSWKDWAKPGPYDQ  
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RGTIGAGPIPIKTPVIPVKTPVPDLPGLPAPPDGPGEERGEHSPESPSVGEPPQGVTS  
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>sp|Q9ULD2|MTUS1\_HUMAN Microtubule-associated tumor suppressor 1 OS=Homo sapiens GN=MTUS1  
PE=1 SV=2

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TYIEEAQYKMQLEQFQDNLNAAHETSKLEIEASHSEKLELLKKAYEASLSEIKKGHEIE  
KKSLEDLLSEKQESLEKQINDLSENDALNEKLKSEEQKRRAREKANLKNPQIMYLEQEL  
ESLKAVLEIKNEKLHQDIKLMKMEKLVNNTALVDKLKRFQQENEELKARMDKHM AISR  
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>sp|Q13505|MTX1\_HUMAN Metaxin-1 OS=Homo sapiens GN=MTX1 PE=1 SV=2

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QAKLPSGKLQVHLRGLHNLCACTHILSLYFPWDGAEVPPQRQTPAGPETEEEPYRRRNQ  
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>sp|Q9UKN1|MUC12\_HUMAN Mucin-12 OS=Homo sapiens GN=MUC12 PE=1 SV=2

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SEESTTSHSRPGSTHTTAFPGSTTMPGLSQESTASHSSPGPTDTLSPGSTTASSLGPEY  
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PSSKDRPAPPTTSAFVEPSTTSHGSPSSIPTTHISARSTTSGLVEESTTYHSSPGSTQ  
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STTSGRSEESTASHSSQDATGTIVLPARSTTSVLLGESTTSPISSGSMETTALPGSTTTP  
GLSERSTTFHSSPRSPATTLSPASTTSSGVSEESTTSRSRPGSTHTTAFPDSTTTPGLSR  
HSTTSHSSPGSTDITLLPASTTSSGPSQUESTTSHSSSGSTDALTALSPGSTTALSFGQUESTT  
FHSNPGSTHTTLFPDSTTSSGIVEASTRVHSSTGSPRTTLSPASSTSPGLQGESTAFQTH  
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TTPSSAHSTTSGRGESTTSRISPGSTEITTLPGSTTTPGLSEASTTFYSSPRSPTTTLSP  
ASMTSLGVGEESTTSRSQPGSTHSTVSPASTTTPGLSEESTTVYSSSRGSTETTVPFPHST  
TTSVHGEEPTTFHSRPASTHTTLFTEDSTTSGLTEESTAFPGSPASTQTGLPATLTTADL  
GEESTTFPSSSGSTGTLKSPARSTTSGLVGESTPSRLSPSSTETTTLPGSPTTPSLSEKS  
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SLHTTLTPASSTSAGLQEESTTFQSWPSSSDTTPSPPGTTAAPVEVSTTYHSRPSSTPTT  
HFSASSTTLGRSEESTTVHSSPGATGTALFPTRSATSVLVGEPTTSPISSGSTETTALPG  
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PGVSQESTASHSSPGSTDITLSPGSTTASSLGPESTTFHSSPGSTETTLPPDNTTASGLL  
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GSPSSTPTTHFSASSTTLGRSEESTTVHSSPVATATTPSPARSTTSGLVEESTAYHSSPG  
STQTMHFPESSTASGRSEESRTSHSSTHTTISPPSTTSALVEEPTSYHSSPGSTATTHF  
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TTPGLSEKSTTFHSSPRSPATTLSPASTTSSGVSEESTTSHSRPGSTHTTAFPDSTTTPG  
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GSTEATLSPGSTTASSLGQQSTTFHSSPGDTETTLPPDDITISGLVEASTPTHSSSTGSLH  
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ASSTTLGRSEESTTVHSSPGATGTALFPTRSATSVLVGEPTTSPISSGSTETTALPGST  
TAGLSEKSTTFYSSPRSPDTTLSPASTTSSGVSEESTTSHSRPGSTHTTAFPGSTM  
PGVSQESTASHSSPGSTDITLSPGSTTASSLGPESTTFHSGPGSTETTLPPDNTTASGLLEAS  
TPVHSSTGSPHTTLSPAGSTTRQGESTTFQSWPNSKDTTPAPPTTSAFVELSTTSHGSP  
SSTPTTHFSASSTTLGRSEESTTVHSSPVATATTPSPARSTTSGLVEESTTYHSSPGSTQ  
TMHFPESDTTSGRGEESTTSHSSTHTTISAPSTTSALVEEPTSYHSSPGSTATTHFPDS

STTSGRSEESTASHSSQDATGTIVLPARSTTSVLLGESTTSPISSGSMETTALPGSTTTP  
GLSEKSTTFHSSPRSPATTLSPASTTSSGVSEESTTSHSRPGSTHTTAFPDSTTTPGLSR  
HSTTSHSSPGSTDITLLPASTTSSGSSQUESTTSHSSSGSTDALSPGSTTALSFGQUESTT  
FHSSPGSTHTTLPDSTTSSGIVEASTRVHSSTGSPRTTLPASSTSPGLQGESTAFAQTH  
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TTSVRREEPTTFHSRPASTHTTLFTEDSTTSGLTEESTAFPGSPASTQTGLPATLTTADL  
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TTFYTSRSPDATLSPATTTSSGVSEESTSHSQPGSTHTTAFPDSTTSGLSQEPTTSH  
SSQGSTEATLSPGSTTASSLGQSTTFHSSPGDTETTLPPDDTITSGLVEASTPTHSSTG  
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HFSASSTTLGRSEESTTVHSSPGATGTALFPTRSATSVLVGEPTTSPISSGSTETTALPG  
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PGVSQESTASHSSPGSTDITLSPGSTTASSLGPESTTFHSSPGSTETTLPPDNTTASGLL  
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GSPSSTPTTHFSASSTTLGRSEESTTVHSSPVATATTPSPARSTTSGLVEESTTYHSSPG  
STQTMHFPESNTTSGRGEESTTSHSSTHTTSSAPSTTSALVEEPTSYHSSPGSTATTHF  
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LVEESTAYHSSPGSTQTMHFPESSTASGRSEESRTSHSSTHTTSSPPSTTSALVEEPTS  
YHSSPGSIATTHFPESSTTSGRSEESTASHSPDTNGITPLPAHFTTSGRIAESTTFYIS  
PGSMETTLASTATTPGLSAKSTILYSSSRSPDQTLSPASMTSSSISGEPTSLYSQAESTH  
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PASTTVPGLSEESTTFYSSPGSTETTAFFSHSNTMSIHSQQSTPFDPSPGFTHTVLPATLT  
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TEESTTFHTSPSFTSTIVSTESLETAPGLCQEGQIWNGKQCVCPCQGYVGYQCLSPLESF  
PVETPEKLNATLGMTVKVITYRNFTEKMNDASSQEYQNFSTLFKNRMDVVLKGDNLPPQYRG  
VNIRLLNGSIVVKNVDILEADYTLEYEELFENLAEIVKAKIMNETRTLLDPDSCKAI  
LCYSEEDTFVDSSVTPGDFDQEQCTQKAAEGYTQFYVVDVLDGKLACVNKCTKGTKSQMN  
CNLGTCCQLQRSGPRCLCPNTNTHWYWGGETCFENIAKSLVYGIVGAVMAVLLLALIILIL  
FSLSQKRHRREQYDVPQEWKRGTPGIFQKTAIWEDQNLRESRFLENAYNNFRPTLETV  
DSGTELHIQRPEMVASTV

>sp|P43121|MUC18\_HUMAN Cell surface glycoprotein MUC18 OS=Homo sapiens GN=MCAM PE=1 SV=2

MGLPRLVCAFLLAACCCCPRVAGVPGEAEQPAPELVEVEVGSTALLKCGLSQSQGNLSHV  
DWFSVHKEKRTLIFRVRQGGQSEPEGEYEQRLSLQDRGATLALTQVTPQDERIFLCQGKR  
PRSQEYRIQLRVYKAPEEPNIQVNPLGIPVNSKEPEEVATCVGRNGYPIPQVIWYKNGRP  
LKEEKNRVHIQSSQTVESGLYTLQSILKAQLVKEDKDAQFYCELNYRLPSGNHMKESRE  
VTVPVFYPTKEKVWLEVEVPVGMKEGDRVEIRCLADGNPPPHFSISKQNPSTREAEETTN  
DNGVLVLEPARKEHSGRYECQGLDLDTMISLLSEPQELLVNYVSDVRVSPAAPERQEGSS  
LTLTCEAESSQDLEFQWLREETGQVLERGPVLQLHDLKREAGGGYRCVASVPSIPGLNRT  
QLVNVAIFGPPWMAFKERKVVWKENMVLNLSCEASGHPRTISWNVNGTASEQDQDPQRV  
LSTLNLVLTPELLETGVECTASNDLGKNTSILFLELVNLTTLTPDSNTTGLSTSTASPH  
TRANSTSTERKLPEPESRGVVIVAVIVCILVLAVLGAVLYFLYKKGKLPCCRSGKQEITL

PPSRKSELVVEVKSDKLPEEMGLLQGSSGDKRAPGDQGEKYIDLRH

>sp|Q5SSG8|MUC21\_HUMAN Mucin-21 OS=Homo sapiens GN=MUC21 PE=1 SV=2

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TNSESSTPSSGASTATNSDSSTTSSGASTATNSDSSTTSSEASTATNSESSTTSSGASTA  
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TNSESSTPSSGAGTATNSESSTTSSGAGTATNSESSTVSSGISTVTNSESSTPSSGANTA  
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TNSGSSTTSSGTSTATNSESSTVSSGASTATTSESSTTSSGASTATNSESSTVSSGASTA  
TNSESSTTSSGANTATNSGSSVTSAGSGTAALTGMHTTSHSASTAVSEAKPGGSLVPWEI  
FLITLVSVAAGVLFAGLFFCVRNSLSLRNTFNTAVYHPHGLNHGLGPGPGNGHAPHRP  
RWSPNWFWRPVSIIAMEMSGRNSGP

>sp|O60682|MUSC\_HUMAN Musculin OS=Homo sapiens GN=MSC PE=1 SV=2

MSTGSVSDPEEMELRGLQREYPVPASKRPPLRGVERSYASPSDNSSAEEDPDGEEERCA  
LGTAGSAEGCKRKRPRVAGGGGAGGSAGGGGKKPLPAKGSAAECKQSQRNAANARERARM  
RVLSKAFSRLKTSLPWPPDTKLSKLDLRLASSYIAHLRQLQEDRYENGYVHPVNLTW  
PFVVSGRPDSDTKEVSAANRLCGTTA

>sp|Q14764|MVP\_HUMAN Major vault protein OS=Homo sapiens GN=MVP PE=1 SV=4

MATEEFIIRIPPHYIHVLDQNSNVSRVEVGPKTYIRQDNERVLFAPMRMVTVPPRHYCT  
VANPVSQDAQGLVLFVDVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVVLNPTA  
LHLKALLDFEDKDGKVVAGDEWLFEGPGTYIPRKEVEVEVEIIQATIIIRQNQALRLRARK  
ECWDRDGKERVGTGEELVTTVGAYLPAVFEEVLDLVDAILTEKTALHLRARRNFRDFRG  
VSRRTGEEWLVTVDTEAHVPDVHEEVLGVPITTLGPHNYCVILDPVGPDKGNQLGQKR  
VVKGEKSFFLQPGEQLEGGIQDVVYLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIR  
GPLEYVPSAKVEVVEERQAIPLDENEGIYVQDVKTGKVRVIGSTYMLTQDEVLWEKELP  
PGVEELLNKGQDPLADRGEKDTAKSLQPLAPRNKTRVVSYPVPHNAAVQVYDYREKRARV  
VFGPELVSLGPEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTDVITETADHARLQLQ  
LAYNWHFEVNDRDKPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFDDFHKNSARIIR  
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVVSSVDVQSVEPVDQRTRDALQRSVQL  
AIEITNSQEAAAKHEAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTG  
TAKAEAESRAEAARIEGEGSVLQAKLKAQALAIETEAELQRVQKVRELELVYARAQLELE  
VSKAQQLAEVEVKKFKQMTAIGPSTIRDLAVAGPEMQVKLLQSLGLKSTLITDGSTPIN  
LFNTAFGLLGMGPEGQPLGRRVASGSPGEGISPQSAQAPQAPGDNHVVPVLR

>sp|P10243|MYBA\_HUMAN Myb-related protein A OS=Homo sapiens GN=MYBL1 PE=1 SV=2

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IASHLQNRSDFCQHRWQKVLNPELIKGPWTKEDQRVIELVQKYGPKRWSLIAKHLKGR  
IGKQCRERWHNHLNPEVKKSSWTEEDRIIYEAHKRLGNRWAEIAKLLPGRTDNSIKNHW  
NSTMRKVEQEGYLQDGIKSERSSSKLQHKPCAAMDHMQTNQFYIPVQIPGYQYVSPEG  
NCIEHVQPTSAFIQPFIDEDPDKEKKIKELEMLLSAENEVRRKRIPSQPGSFSSWSGS  
FLMDDNMSNTLNSLDEHTSEFYSDENQPVSAQQNSPTKFLAVEANAVLSSLQTIPEFAE  
TLELIESDPVAWSVDVTSFDISDAAASPIKSTPVKLMRIQHNEGAMECQFNVSLVLEGKKN  
TCNGGNSEAVPLTSPNIAKFSTPPAILRKKRKMVGHSPGSELRDGSLNDGGNMALKHTP  
LKTLPFSPSQFFNTCPGNEQLNIENPSFTSTPICGQKALITPLHKETTPKDQKENVGFR  
TPTIRRSILGTTPTPTPFKNALAAQEKKYGPLKIVSQPLAFLEEDIREVLKEETGTDLF

LKEEDEPAYKSCQENTASGKKVRKSLVLDNWEKEESGTQLLTEDISDMQSENRFTTSL  
MIPLLEIHDNRCNLIPEKQDINSTNKTYTLTKKKPNPNTSKVVKLEKNLQSNCEWETVVY  
GKTEDQLIMTEQARRYLSTYTATSSTSRLIL

>sp|P10244|MYBB\_HUMAN Myb-related protein B OS=Homo sapiens GN=MYBL2 PE=1 SV=1

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FPNRTDQQCQYRWLRVLNPDLVKGPWTKEDQKVIELVKKYGTKQWTLIAKHLKGRLGKQ  
CRERWHNHLNPEVKKSCWTEEDRIICEAHKVLGNRWAEIAKMLPGRTDNAVKNHWNSTI  
KRKVDTGGFLESKDCPPVYLLELEDKDGLQSAQPTGQGSLLTNWPSVPPTIKEEN  
SEEELAAATTSKEQEPIGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWVVEANLL  
IPAVGSSLSEALDIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQASHQQQVLPPRQ  
PSALVPSVTEYRLDGHTISDLRSRRGELIPISPSTEVGSGIGTPPSVLKRQRKRVAL  
SPVTENSTSLSFLDSCNSLTPKSTPVKTLPFSPSQFLNFWNKQDTLELESPLTSTPVCS  
QKVVTTPHLRDKTPLHQHAAFVTPDQKYSMDNTPHTPTPFKNALEKYGPLKPLPQTPH  
LEEDLKEVLRSEAGIELIIEDDIRPEKQKRKPGLRRSPIKKVRKSLALDIVDEDVKLMMS  
TLPKSLSLPTTAPSNSSSLTSGIKEDNSLLNQGFLQAKPEKAABAQKPRSHFTTPAPMS  
SAWKTVACGGTRDQLFMQEKARQLLGRKPSHTSRTLILS

>sp|Q9H579|MROH8\_HUMAN Protein MROH8 OS=Homo sapiens GN=MROH8 PE=2 SV=2

MSSKHRICSQEEVVICAYDSDESVDLELSNLEI IKKGSSSIELTDL DIPDIPGLHCEP  
LSHSPRHLTQQDPLSEAIVEKLIQSIQKVFNGELKGELEKLFGLDSSLSQALPYDETA  
KFSIHSIADIVHTLNVLVQEERPHSLSSMRQEVFVTIADLSYQDVHLLLGSEDRAELF  
SLTIKSIITLPSVRTLTQIQEIMPNGTCNTECLYRQTFQAFSEMLQSLVVKDPHLENLDT  
IIKLPLRFQRLGHLVALMALLCGDPQEKVAEEAAEGIHSLHITLRLKYITHDKKQQNL  
KRALTKREFLELHSSAAKCFYNPCFRIAQVFEGFLDSNELCQFIMTTFDTLTKLKHPCI  
QRSAGELLLTLAKNTESQFEKVPEIMGVICAQLSIISQPRVRQIIINTVSLFISRPKYTD  
IVLSFLLCHPVVPYNRHLAEVWRMLSVELPSTTWILWRLRLKQKCHNEPAQEKMAYVAVA  
VSP

>sp|O15438|MRP3\_HUMAN Canalicular multispecific organic anion transporter 2 OS=Homo sapiens GN=ABCC3 PE=1 SV=3

MDALCGSGELGSKFWSNLSVHTENPDLTPCFQNSLLAWVPCIYLVVALPCYLLYLRRHC  
RGYIILSHLSKLMVLGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLAT  
LLIQYERLQGVQSSGVLIIFWFLCVVCAIVPFRSKILLAKAEGEISDPFRFTTFYIHFAL  
VLSALILACFREKPPFFSAKNVDPNYPETSAGFLSRLFFWWFTKMAIYGYRHPLEEKDL  
WSLKEEDRSQMVMVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL  
KALLATFGSSFLISACFKLIQDLLSFINPQLLSILIRFISNPMAPSWWGFLVAGLMFLCS  
MMQSLILQHYYHYIFVTGVKFRGTGIMGVYRKALVITNSVKRASTVGEIVNLSVDAQRF  
MDLAPFLNLLWSAPLQIILAIFYLWQNLGPSVLGAVAFMVLLIPLNGAVAVKMAFQVKQ  
MKLKDSRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGELQLLRTAAYLHTTTFTWM  
CSPFLVTLITLWVYVYVDPNNVLDAEKAFVSVSLFNILRLPLNMLPQLISNLTQASVSLK  
RIQQFLSQEELDPQSVERKTISPGYAITIHSGTFTWAQDLPTLHSLDIQVPGALVAVV  
GPVCGCKSSLVSALLGEMEKLEKGVHMKGSVAYVPQAWIQNCTLQENVLF GKALNPKRY  
QQTLEACALLADLEMLPGGDQTEIGEKGINLSGGQRQVSLARAVYSDADIFLLDDPLSA  
VDSHVAKHIFDHVIGPEGVLAKTRVLVTHGISFLPQTDFIIVLADGQVSEMGYPALLQ  
RNGSFANFLCNYPADEDQGHLEDSWTALEGAEDKEALLIEDTLSNHTDLTDNDPVTVVYVQ  
KQFMRQLSALSSDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFW

DYAKAVGLCTTLAICLLYVGQSAAGI GANVWLSAWTNDAMADSRQNNTSLRLGVYAALGI  
LQGFLVMLAAMAMAAGGIQAARVLHQALLHNKIRSPQSFFDTPSGRILNCFSDKIYVVD  
EVLAPVILMLLNSFFNAISTLVVIMASTPLFTVVILPLAVLYTLVQRFYAATSRQLKRLE  
SVSRSPIYSHFSETVTGASVIRAYNRSRDFEII SDTKVDANQRSCYPYIISNRWLSIGVE  
FVGNCVVLFAALFAVIGRSSLNPLGLVGLSVSYSLQVTFALNWMIRMSDLESNIVAVERV  
KEYSKTETEAPWVVEGSRPPEGWPPRGEVEFRNYSVRYRPGLDLVLRLDSLHVHGGEKVG  
IVGRTGAGKSSMTLCLFRILEAAKGEIRIDGLNVADIGLHDLRSQITIIPQDPILFSGTL  
RMNLDPFGSYSEEDIWWALELSHLHTFVSSQPAGLDFQCSEGGENLSVGQRQLVCLARAL  
LRKSRIILVDEATAAIDLETNLIQATIRTQFDTCTVLTIAHRLNTIMDYTRVLVLDKGV  
VAEFDSPANLIAARGIFYGMARDAGLA

>sp|O15439|MRP4\_HUMAN Multidrug resistance-associated protein 4 OS=Homo sapiens GN=ABCC4  
PE=1 SV=3

MLPVYQEVKPNPLQDANLCSRFFWWLNPLFKIGHKRRLEEDMYSVLPEDRSQHLGEEL  
QGFWDKEVLRAENDAQKPSLTRAIIKCYWKSylvLGIFTLIEESAKVIQPIFLGKIINYF  
ENYDPMDSVALNTAYAYATVLTFTCLILAILHHLFYFHVQCAGMRLRVAMCHMIYRKALR  
LSNMAMGKTTTGQIVNLLSNDVNKFDQVTVFLHFLWAGPLQAI AVTALLWMEIGISCLAG  
MAVLIILLPLQSCFGKLFSSLRSKTATFTDARITMNEVITGIRIIKMYAWEKSFSNLIT  
NLRKKEISKILRSSCLRGMNLASFSSASKIIVFVTFTTYVLLGSVITASRVFVAVTLYGA  
VRLTVTLFFPSAIERVSEAIVSIRRIQTFLLLDEISQRNRQLPSDGKKMVHVQDFTAFWD  
KASEPTLQGLSFTVRPGELLAVVGPVGAGKSSLLSAVLGELAPSHGLVSVHGRIAYVSQ  
QPWVFSGLTRSNILFGKKYEKERYEKVIKACALKKDLQLEDGDLTVIGDRGTTLSGGQK  
ARVNLARAVYQDADIYLLDDPLSAVDAEVSRLHFELCICQILHEKITILVTHQLQYLKAA  
SQILILKDGMVQKGTYTEFLKSGIDFGSLLKKDNEESEQPPVPGTPTLRNRTFSESSVW  
SQQSSRPSLKDGALESQDTENVPVTLSEENRSEKVGFGQAYKNYFRAGAHWIVFIFLILL  
NTAAQVAYVLQDWWLSYWANKQSM LNVTNNGGNGVTEKLDLNWYLG IYSGLTVATVLFGI  
ARSLLVFYVLVNSSQTLHNKMFESILKAPVLFFDRNP IGRILNRFSDKIGHLDDLPLTF  
LDFIQTLQVVGVSVA VAVIPWIAIPLVPLGIIFIFLRRYFLETSRDVKRLESTTRSPV  
FSLSSSLQGLWIRAYKAEERCQELFDAHQDLHSEAWFLFTTSRWFVRLDAICAMFV  
IIVAFGSLILAKTL DAGQVGLALS YALTLMGMFQWCVRQSAEVENMMISVERVIEYTDLE  
KEAPWEYQKRPPPAWPHEGVIIFDNVNFMYSPGGPLVLKHLTALIKSQEKVGI VGRGTGAG  
KSSLISALFRLSEPEGKIWIDKILTTEIGLHDLRKKMSIIPQEPVLFTGTMRKNLDPFNE  
HTDEELWNALQEVQLKETIEDLPKMDTELAESGSNFSVGQRQLVCLARAILRKNQILII  
DEATANVDPRTDELIQKKIREKFAHCTVLTIAHRLNTIIDSDKIMVLDSGRLKEYDEPYV  
LLQNKESLFYKMQQLGKAEEAALTETAKQVYFKRNYPHIGHTDHMTNTSNGQPSTLTI  
FETAL

>sp|Q96J65|MRP9\_HUMAN Multidrug resistance-associated protein 9 OS=Homo sapiens GN=ABCC12  
PE=1 SV=2

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TPVMVKGYRQLTVDTLPLSTYDSSDTNAKRFRVLWDEEVARVGPEKASLSHVVKFQR  
TRVLMDIVANILCIIMAAIGPVILIHQILQQTERTSGKVWVGIGLCIALFATEFTKVFFW  
ALAWAINYRTAIRLKVALSTLVFENLVSFKTLTHISVGEVLNLSDSYSLFEAALFCPL  
PATIPILMVFCAAYAFFILGPTALIGISVYVIFIPVQMFMAKLNSAFRRSAILVTDKRVQ  
TMNEFLTCIRLIKMYAWEKSFTNTIQDIRRRERKLEKAGFVQSGNSALAPIVSTIAIVL  
TLSCHILLRRKLTAPVAFSVIAMFNVMKFSIAILPFSIKAMAEANVSLRRMKKILIDKSP

PSYITQPEDPDTVLLLANATLTWEHEASRKSTPKKLQNQKRHLCKQRSEAYSERSPPAK  
GATGP EEGSDSLKSVLHSISFVVRKGKILGICGNVSGKSSLLAALLGQMQLQKGVVAVN  
GTLAYVSQQAWIFHGNVRENILFGEKYDHQRYQHTVRVCGLQKDLSNLPYGDLTEIGERG  
LNLGGGQRQRISLARAVYSDRQLYLLDDPLSAVDAHVGKHFEECIKKTLRGKTVVLVTH  
QLQFLESCDEVILLEDGEICEKGTHKELMEERGRYAKLIHNL RGLQFKDPEHLYNAAMVE  
AFKESPAEREEDAGIIVLAPGNEKDEGKESETGSEFVDTKVPEHQLIQTESPQEGTVTWK  
TYHTYIKASGGYLLSLFTVFLFLLMIGSAAFSNWWLGLWLDKGSRMTCGPQGNRTMCEVG  
AVLADIGQHVVYQWVYTASVMFVLVFGVTKGFVFTKTTLMASSSLHDTVFDKILKSPMSFF  
DTTPTGRLMNRFKMDDEL DVRLPFHAENFLQQFFMVVFI LVILA AVFPAVLLVVASLAV  
GFFILLRIFHRGVQELKKVENVSRSPWFTHITSSMQGLGIIHAYGKKESCITYHLLYFNC  
ALRWFALRMDVLMNILTFTVALLVTL SFSSISTSSKGLSLSYIIQLSGLLQVCVRTGTET  
QAKFTSVELLREYISTCVP ECTHPLKVGTCPKDWPSRGEITFRDYQMR YRDNTPLVDSL  
NLNIQSGQTVGIVGRTGSGKSSLGMA LFR LVEPASGTIFIDEVDICILSLEDLRTKLTVI  
PQDPVLVFGTVRYNLDPFESHTDEMLWQVLERTFMRDTIMKLPEKLQAEVTENGENFSVG  
ERQLLCVARALLRNSKIILLDEATASMSKTDTLVQNTIKDAFKGCTVLTIAHRLNTVLN  
CDHVLVMENGKVI EFDKPEVLA EKPD SAFAMLLAAEVRL

>sp|Q8N5Y2|MS3L1\_HUMAN Male-specific lethal 3 homolog OS=Homo sapiens GN=MSL3 PE=1 SV=1

MSASEGMKFKFHSGEKVLCFEPDPTKARVLYDAKIVDVI VGKDEKGRKIPEYLIHFNGWN  
RSWDRWAAEDHVL RDTDENRR LQRKLARKAVARLRSTGRKKKRCRLPGVDSVLKGLPTEE  
KDENDENSLSSSSDCSENKDEEISEESDIEEKTEVKEPELQTRREMEERTITIEIPEVL  
KKQLEDDCYIINRRKRLVKLP CQTNIITILESYVKHFAINA AFSANERPRHHHVMPHANM  
NVHYIPAEKNVDLCKEMVDGLRITFDYTLPLVLLYPYEQAQYKKVTSSKFFLP IKESATS  
TNRSQEELSPSPLLNPSTPQSTESQPTTGEPATPKRRKAEPEALQSLRRSTRHSANCDR  
LSESSASPQPKRRQQDTSASMPKFLHLEKKTPVHSRSSSPIPLTPSKEGSAVFAGFEGR  
RTNEINEVLSWKLVPDNYPPGDQPPPPSYIYGAQHLLRLFVKLPEILGKMSFSEKNL KAL  
LKHFDLFLRFLAEYHDDFFPESAYVAACEAHYSTKNPRAIY

>sp|Q9HCI7|MSL2\_HUMAN E3 ubiquitin-protein ligase MSL2 OS=Homo sapiens GN=MSL2 PE=1 SV=2

MNPVNATALYISASRLVLNYDPGDPKAFTEINRLLPYFRQSLSCCVCGHLLQDPIAPTNS  
TCQHYVCKTCKGKKMMMKPSCSWCKDYEQFEENKQLSILVNCYKKLCEYITQTTLARDII  
EAVDCSSDILALLNDGSLFCEETEKPSDSSFTLCLTHSPLPSTSEPTTDPQASLSPMSSES  
TLSIAIGSSVINGLPTYNGLSIDRFGINIPSPEHSNTIDVCNTVDIKTEDLSDSLPPVCD  
TVATDLCSTGIDICSFSEDIKPGDSL LLSVEEVLR SLETVSNT EVCCPNLQPNLEATVSN  
GPFLQLSSQSLSHNVFMSTSPALHGLSCTAATPKIAKLNRKRSRSESDSEKVQPLPISTI  
IRGPTLGASAPVTVKRESKISLQPIATVPNGGTPPKISKTVLLSTKSMKKSHEHGSKKSH  
SKTKPGILKKDKAVKEKIPSHHFMPGSPTKTVYKPKQEKKGCKGRATQNP SVLTCRGQR  
CPCYSNRKACLDICRG CQNSYMANGEKKLEAF AVPEKALEQTRLTLGINVTSIAVRNAS  
TSTSVINVTGSPVTTFLAASTHDDKSLDEAIDMR FDC

>sp|Q8NHP6|MSPD2\_HUMAN Motile sperm domain-containing protein 2 OS=Homo sapiens GN=MOSPD2  
PE=1 SV=1

MAENHAQNKAKL ISETRRRFEAEYVTDKSDKYDARDVERLQQDDNWWESYLSWRHNIVDE  
TLKMLDESFQWRKEISVNDLNESSIPRWLLEIGVIY LHGYDKEGNKLFWIRVKYHVKDQK  
TILDKKKLIAFWLERYAKRENGKPVTVMF DLSETGINSIDMFVRFIINCFKVVYPKYLS  
KIVIFDMPWLMNAAFKIVKTLWGPEAVSLLKFTSKNEVQDYVSVEYLP PHMGGTDPFKYS  
YPPLVDDDFQTPLCENGPI TSEDETSSKEDIESDGKETLETISNEEQTPLLKKINPTEST



SKAEENEKVDKVKAFKKPLSVFKGPLLHISPAEELYFGSTESGEKKTLLVLTNVTKNIV  
AFKVRTTAPEKYRVKPSNSSCDPGASVDIVVSPHGGLTVSAQDRFLIMAAEMEQQSSGTGP  
AELTQFWKEVPRNKVMEHRLRCHTVESKPNLTTLKDNAFNMSDKTSEDICLQLSRLLS  
NRKLEDQVQRCIWFQQLLLSLTMLLLAFVTSFFYLLYS

>sp|Q9Y3D2|MSRB2\_HUMAN Methionine-R-sulfoxide reductase B2, mitochondrial OS=Homo sapiens  
GN=MSRB2 PE=1 SV=2

MARLLWLLRGLTLGTAPRRAVRGQAGGGPGTGPGLGEAGSLATCELPLAKSEWQKKLTP  
EQFYVTREKGTPEPPSGIYLNKEAGMYHCVCCDSPLFSSEKKYCSGTGWPSFSEAHGTS  
GSDESHTGILRRDLTSLGSARTEVVCKQCEAHLGHVFPDGPNGQRFICINSVALKFKPR  
KH

>sp|P35548|MSX2\_HUMAN Homeobox protein MSX-2 OS=Homo sapiens GN=MSX2 PE=1 SV=3

MASPSKGNLFSPEEGPAVAGPGPGGAEGAAEERRVKVSSLPFSVEALMSDKKPPK  
EASPLPAESASAGATLRPLLLSGHGAREAHSPGPLVKPFETASVKSENSEDGAAWMQEPG  
RYSPPPRHMSPTTCTLRKHKTNRKPRTPFTTSQLLALERKFRQKQYLSIAERAEFSSSLN  
LTETQVKIWFQNRRAKAKRLQEALEKLKMAAKPMLPSSFSPLPFISSPLQAASIYGASY  
PFHRPVLPIPPVGLYATPVGYGMYHLS

>sp|A1L3X4|MT1DP\_HUMAN Putative metallothionein MT1DP OS=Homo sapiens GN=MT1DP PE=5 SV=1  
MDLSCSCATGGSCTCASSCKCKEYKCTSCCKNCCSCCPMGCAKCAQGCT

>sp|P80297|MT1X\_HUMAN Metallothionein-1X OS=Homo sapiens GN=MT1X PE=1 SV=1

MDPNCSCSPVGSACAGSCKCKECKCTSCCKSCCSCCPVGCACKCAQGCICKGTSDKCSCC  
A

>sp|Q13330|MTA1\_HUMAN Metastasis-associated protein MTA1 OS=Homo sapiens GN=MTA1 PE=1  
SV=2

MAANMYRVGDYVYFENSSSNPYLIRRIEELNKTANGNVEAKVVCFYRRRDISSTLIALAD  
KHATLSVCYKAGPGADNGEEGEIEEEMENPEMVDLPEKLKHLRHRELFSLRQLESLPAT  
HIRGKCSVTLLNETESLKSYLEDFFFYSLVYDPQQTLLADKGEIRVGNRYQADITDL  
LKEGEEDGRDQSRLETQVWEAHNPLTDKQIDQFLVVARSVGTAFARALDCSSSVRQPSLHM  
SAAAASRDITLFHAMDTLHKNIYDISKAISALVPQGGPVLCRDEMEEWSASEANLFEEAL  
EKYGKDFDTIQDQFLPWKSLTSIIIEYYYMWKTTDRYVQQKRLKAAEAESKLKQVYIPNYN  
KPNPNQISVNNVKAGVVNGTGAPGQSPGAGRACESCYTTQSYQWYSWGPPNMQCRLCASC  
WTYWKYGGGLKMPTRLDGERPGPNRNSMSPHGLPARSSGSPKFAMKTRQAFYLHTTKLTR  
IARRLCREILRPWHAARHPYLPINSAAIKAECTARLPEASQSPLVLKQAVRKPLEAVLRY  
LETHPRPPKPDVKSVSSSLTPAKVAPVINNGSPTILGKRSYEQHNGVDGNMKKRLL  
MPSRGLANHGQARHMGPSRNLNNGKSYPTKVRLIRGGSPPVKRRRMNWIDAPDDVFYM  
ATEETRKRKLLSSSETKRAARRPYKPIALRQSQALPPRPPPPAPVNDPIVIED

>sp|O75081|MTG16\_HUMAN Protein CBFA2T3 OS=Homo sapiens GN=CBFA2T3 PE=1 SV=2

MPASRLRDRAASSASGSTCGSMSQTHPVLESGLLASAGCSAPRGPRKGGPAPVDRKAKAS  
AMPDSPAEVKTQPRSTPPSMPPPPAASQGATRPPSFTPHTHREDGPATLPHGRFHGCLK  
WSMVCLLMNGSSHPTAINGAPCTPNGFSNGPATSSSTASLSTQHLPPACGARQLSKLRKF  
LTTLQQFGSDISPEIGERVRTLVLGLVNSTLTIEEFHSLKQEATNFPLRPFVIPFLKANL  
PLLQRELLHCARLAKQTPAQYLAQHEQLLDASASSPIDSSELLLEVNENGGKRRTPDRTK  
ENGSDRDPLHPEHLSKRPTLNPAQRYSPSNGPPQTPPPHYRLEDIAMAHFRDAYRHP  
DPRELRRHRPLVVPGRQEEVIDHKLTEREWAEWKHLNLLNCIMDMVEKTRRSLTVL  
RRCQEADREELNHWARRYSDAEDTKKGPAPAAARPRSSSAGPEGPQLDVPREFLPRTLGTG

YVPEDIWRKAEAEVNEVKRQAMSELQKAVSDAERKAHELITTERAKMERALAEAKRQASE  
DALTVINQQEDSSCWNCGRKASETCSGCNAARYCGSFCQHRDWEKHHHVCGQSLQGPT  
AVVADPVPGPPEAAHSLGPSLPVGAASPSEAGSAGPSRPGSPSPGPLDTPVR

>sp|Q9H4K7|MTG2\_HUMAN Mitochondrial ribosome-associated GPase 2 OS=Homo sapiens GN=MTG2  
PE=1 SV=1

MAPARCF SARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGK  
KLLSEKKLKRYFVDYRRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQ  
QVKSLSSVLSRYQGFSGEDGGSKNCFGRSGAVLYIRVPVGTLVKEGGRVVADLSCVGDEY  
IAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVAHAGMVGFPNAGKSSL  
LRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIAVADIPGIIRGAHQNRGLGSAFLRHI  
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKGLSARPHAIVANKIDLPEAQANLSQLR  
DHLGQEVIVLSALTGENLEQLLLHLKVLYDAYAEAELGQGRQPLRW

>sp|O43439|MTG8R\_HUMAN Protein CBFA2T2 OS=Homo sapiens GN=CBFA2T2 PE=1 SV=1

MAKESGISLKEIQVLARQWKVGPEKRV PAMPGSPVEVKIQSRSSPPTMPPLPPINPGGPR  
PVSFTPTALSNGINHSPPTLNGAPSPQRF SNGPASSTSSALTNQQLPATCGARQLSKLK  
RFLTTLQQFGNDISPEIGEKVRTLV LALVNSTVTIEEFHCKLQEATNFPLRPFVIPFLKA  
NLPLLQRELLHCARA AKQTPSQYLAQHEHLLNTSIASPADSSELLMEVHGNGKRPSPER  
REENSFDRDTIAEPPAKRVCTISAPRHSPALTVPLMNPGGQFHPTPPPLQHYTLEDIA  
TSHLYREP NKMLEHREVRDRHSLGLNGGYQDELVDHRLTEREWADEWKHLDHALNCIME  
MVEKTRRSM AVLRRQCESDREELNYWKRRYNENTELRKTGTELVSRQHSPGSADSLNDS  
QREFNSRPGTGYVPVEFWKTEEAVNKVKIQAMSEVQKAVAEAEQKAFEVIATERARMEQ  
TIADV KRQAAEDAF LVINEQEESTENCWNCGRKASETCSGCNIARYCGSFCQHKDWERHH  
RLCGQNLHGQSPHGQGRPLLPVGRGSSARSADCSVPSPALDKTSATTSRSSTPASVTAID  
TNGL

>sp|O43193|MTLR\_HUMAN Motilin receptor OS=Homo sapiens GN=MLNR PE=2 SV=1

MGSPWNGSDGPEGAREPPWPALPPCDERRCS PFPLGALVPVTAVCLCLFVVGVS GNVTV  
MLIGRYRDMRTTTNLYLGSM AVSDLLILLGLPFDLYRLWRSRPWFVGPLL CRLSLYVGE  
CTYATLLHMTALSVERYLAICRPLRARVLVTRRRVRALIAVLWAVALLSAGPFLFLVGVE  
QDPGISVVPGLNGTARIASSPLASSPPLWLSRAPPPSPSPGPETAEEAALFSRECRPSPA  
QLGALRVMLWVTTAYFFLPFLCLSILYGLIGRELWSSRRPLRGAASGRERGHRQTVRVL  
LVVVLAFIICWLPFHVGRIIYINTEDSRMMYFSQYFNIVALQLFYLSASINPILYNLISK  
KYRAAAFKLLARKSRPRGFHRSRDTAGEVAGDTGGDTVGYTETSANVKTMG

>sp|Q9Y217|MTMR6\_HUMAN Myotubularin-related protein 6 OS=Homo sapiens GN=MTMR6 PE=1 SV=3

MEHIRTTKVEQVKLLDRFSTSNKSLTGTL YLTATHLLFIDSHQKETWILHHHIASVEKLA  
LTTSGCPLVIQCKNFRTVHFIVPRERDCHDIYNSLLQLSKQAKYEDLYAFSYNPKQNDSE  
RLQGWQLIDLAE EYKRMGVPNSHWQLSDANRDYKICETYPRELYVPRIASKPIIVGSSKF  
RSKGRFPVLSYYHQDEAAICRCSQPLSGFSARCLEDEHLLQAISKANPVNRYMYVMDTR  
PKLNAMANRAAGKGYENEDNYSNIRFQFVG IENIHVMRSSLQKLLLEVNGTKGLSVNDFYS  
GLESSGWL RHIAVMDAAIFLAKAITVENASVLVHCSDGWDRTSQVCSLGSLLDSYYRT  
IKGFMV LIEKDWISFGHKFSERCGQLDGD PKEVSPVFTQFLECVWHLTEQFPQAFEFSEA  
FLLQIHEHIHSCQFGNFLGNCQKEREELKLKEKTYSLWPFLLEDQKKYLNPLYSSESH  
TVLEPNTVSFNFKFWRNMYHQFDRTLHPRQSVFNIIMNMNEQNKQLEKDIKDLESKIKQR  
KNKQTDGILTKELLSVHPESP NLKTSLCFKEQTLLPVNDALRTIEGSSPADNRYSEYAE  
EFSKSEPAVVSLEYGVARMT C

>sp|Q96QG7|MTMR9\_HUMAN Myotubularin-related protein 9 OS=Homo sapiens GN=MTMR9 PE=1 SV=1  
MEFAELIKTPRVDNVVLRPFYPAVEGTLCLTGHHLILSSRQDNTEELWLLHSNIDAIDK  
RFVGSGLGTIIICKDFRIIQLDIPGMEECLNIASSIEALSTLDSITLMPFFYRPMFEVI  
EDGWSHFLPEQEFELYSSATSEWRLSYVNKEFAVCPSYPPIVTVPKSIDDEALRKVATFR  
HGGRFPVLSYYHKNGMVIMRSGQPLTGTNGRRCKEDEKLINATLRAGKRGYIIDTRSLN  
VAQQTRAKGGGFEQEAHYPQWRRIHKSIERYHILQESLIKLEACNDQTHNMDRWLSKLE  
ASNWLTHIKEILTACLAQAQCIDREGASILHGTEGTDSTLQVTSLAQIIILEPRSRTIRG  
FEALIEREWLQAGHPFQQRCAQSAYCNTKQKWEAPVFLFLDCVWQILRQFPCSFENEN  
FLIMLFEHAYASQFGTFLGNNESERCKLKLQKQTMSLSWVNQPSSELSKFTNPLFEANNL  
VIWPSVAPQSLPLWEGIFLRWNRSSKYLDEAYEEMVNIIEYNKELQAKVNILRRQLAELE  
TEDGMQESP

>sp|O75648|MTU1\_HUMAN Mitochondrial tRNA-specific 2-thiouridylase 1 OS=Homo sapiens  
GN=TRMU PE=1 SV=2  
MQALRHVVCALSGGVDSAVAALLRRRGYQVTGVFMKNWDSLDEHGVCTADKDCEDAYRV  
CQILDIPFHQVSYVKEYWNDVFSDFLNEYEKGRTPNPDIVCNKHIKFCFFHYAVDNLGA  
DAIATGHYARTSLEDEEVFEQKHVKKPEGLFRNRFVRNAVKLLQAADSFKDQTFFLSQV  
SQDALRRTIFPLGGLTKEFVKIAAENRLHHVLQKKESMGMCFIGRNFELFLQYLQPR  
PGHFISIEDNKVLGTHKGWFLYTLGQRANIGGLREPWYVVEKDSVKGDFVAPRTDHPAL  
YRDLLRTSRVHWIAEPPAALVRDKMMECHFRFRHQMALVPCVLTLNQDGTVWVTAVQAV  
RALATGQFAVFYKGDECLGSGKILRLGPSAYTLQKGQRRAGMATESPSDSPEDGPGLSPL  
L

>sp|Q2TAK8|MUM1\_HUMAN PWWP domain-containing protein MUM1 OS=Homo sapiens GN=MUM1 PE=1  
SV=3  
MADAKYVLCRWEKRLWPAKVLARTATSTKNKRRKEYFLAVQILSLEEKIKVKSTEVEILE  
KSQIEAIASSLASQNEVPAAPLEELAYRRSLRVALDVLSEGSISQESSAGTGRADRSR  
GKPMEHVSSPCDSNSSSLPRGDVLGSSRPHRRRRCVQQLSSSFTCEKDPECKVDHKKGL  
RKSENPRGPLVLPAGGGAQDESGSRIHHKNWTLASKRGGNSAQKASLCLNGSSLEDDTE  
RDMGSKGGSWAAPSLPSGVREDDPCANAEGHDPGLPLGSLTAPPAPEPSACSEPGECPAK  
KRPRLDGSGRPPAVQLEPMAAGAASPSPGPGPRESVTPRSTARLGPPPSHASADATRCL  
PCPDSQKLEKECQSSEESMGNSMRSILEEDEEDEEPPRVLLYHEPRSFEVGMLVWHKHK  
KYPFWPAVVKSVRQRDKKASVLYIEGHMNPMMKGFTVSLKSLKHFDCKEKQTLLNQARED  
FNQDIGWCVSLITDYRVRLGCGSFAGSFLEYAADISYPVRKSIQQDVLGTLKPQLSKGS  
PEEPVVGCPQGRRQPCRKMLPDRSRAARDANQKLVEYIVKAKGAESHLRAILKSRKPSR  
WLQTFLLSSSQYVTCVETYLEDEGQLDLVVKYLQGVYQEVGAKVLQRTNGDRIRFILDVLL  
PEAIICAISAVDEVYDKTAEKYIKGPSLSYREKEIFDNQLEERNRRRR

>sp|O00567|NOP56\_HUMAN Nucleolar protein 56 OS=Homo sapiens GN=NOP56 PE=1 SV=4  
MVLLHVLFEHAVGYALLALKEVEEISLLQPQVEESVLNLGKFHSIVRLVAFCPFASSQVA  
LENANAVSEGVVHEDLRLLETHLPSKKKKVLLGVGDPKIGAAIQEELGYNCQTGGVIAE  
ILRGVRLHFHNLVKGLTDL SACKAQLGLGHSYRAKVFNVRVDNMI IQSISLLDQLDK  
DINTFSMRVREWYGYPPELVKIINDNATYCRLAQFIGNRRELNEDKLEKLEELTMDGAK  
AKAILDASRSSMGMDISAIDLINIESFSSRVVSLSEYRQSLHTYLRKMSQVAPSLSALI  
GEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALKTRGNTPKYGLIFHSTFIGRA  
AAKNKGRI SRYLANKCSIASRIDCFSEVPTSVFGEKLEQVEERLSFYETGEIPRKNLDV  
MKEAMVQAEEAAAEITRKLEKQEKRLKKEKKRLAALALASSESSSTPEECEEMSEKPK

KKKKQKPQEVQENGMEDPSISFSKPKKKKSFSKEELMSSDLEETAGSTSIPKRKKSTPK  
EETVNDPEEAGHRSGSKKKRKSKEEPVSSGPPEAVGSSSSKKKKKFHKASQED

>sp|Q99457|NP1L3\_HUMAN Nucleosome assembly protein 1-like 3 OS=Homo sapiens GN=NAP1L3  
PE=2 SV=2

MAEADFKMVSEPVAHGVAEEEMASSTSDSGEESDSSSSSSSTSDSSSSSTSGSSSGSGS  
SSSSSGSTSSRSRLYRKRVPEPSRRARRAPLGTNFVDRLPQAVRNRVQALRNIQDECDK  
VDTLFLKAIHDLERKYAELNKPLYDRRFQIINAIEYPTEEECWNSEDEEFSSDEEVQDN  
TPSEMPPLEGEEEEENPKENPEVKAEKEVPKEIPEVKDEEKEVPKEIPEVKAEKADSKD  
CMEATPEVKEDPKEVPQVKADDKEQPKATEAKARAARETHKRVPEERLQDSVDLKRARK  
GKPKREDPKGIPDYWLIVLKNVDKLGPMIQKYDEPILKFLSDVSLKFSKPGQPVSYTFEF  
HFLPNPYFRNEVLKTYIIKAKPDHNDPFFSWGWEIEDCKGCKIDWRRGKDVTVTTTQSR  
TTATGEIEIQPRVVPNASFFNFPSPEIPMIGKLEPREDAILDEDFEIGQILHDNVILKS  
IYYTGEVNGTYQFGKHYGNKKYRK

>sp|Q96NT1|NP1L5\_HUMAN Nucleosome assembly protein 1-like 5 OS=Homo sapiens GN=NAP1L5  
PE=2 SV=1

MADSENQGAEPSSQAAAAEAAAEVMAEGGAQGGDCDSAAGDPDSAAGQMAEEPQTPAE  
NAPKPKNDFIESLPNSVKRVLALKKLQKRCDKIEAKFDKEFQALEKKYNDIYKPLLAKI  
QELTGEMEGCAWTLEGEEEEEEEYEDDEEGEDEEEEEAAAEAAAGAKHDDAHAEMPDDA  
KK

>sp|A6NHN6|NPB15\_HUMAN Nuclear pore complex-interacting protein family member B15 OS=Homo  
sapiens GN=NPB15 PE=3 SV=3

MRLRFWLLIWLLGFISHQPTPVINSLAVYRHRETDFGVGVDRDHPGQHGKTPSPQKLDNL  
IIIIIGFLRRDTFTILFCTSYLCVSFLKTI FWSRNGHDGSTDVQQRARWSNRSRQKGLRS  
ICMHTKKRVSSFRGNKIGLKDVITLRRHVETKVRKIRKRVTTKINRHDKINGKRKTAR  
KQKMFQRAQELRRRAEDYHKCKIPPSARKPLCNWVRMAAAEHRHSSGLPCWPYLTAEALK  
NRMGRQPPPTQQHSITDNSLSLKTPECLLHPLPPSVDDNIKECPLAPLPPSVDDNLKE  
YLLVPLPPSPLPPSVDDNLKDCLFVPLPPSPLPPSVDDNLKTPLATQEAEEKPPKPKR  
WRVDEVEQSPKPKRRRADEVEQSPKPKRQREAEAAQLPKPKRRRLSKLRTRHCTQAWAIR  
INPWVEKKKKIKKQNKTHAPKTN

>sp|E9PIF3|NP1A2\_HUMAN Nuclear pore complex-interacting protein family member A2 OS=Homo  
sapiens GN=NP1A2 PE=3 SV=1

MVKLSIVLTPRFLSHDQGLTKELQQHVKSVTCPCEYLKRVINTLADHRHRGTDGFGSPW  
LLIITVFLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSNRRRQEGIKI  
VLEDIFTLWRQVETKVRKICKMKVTTKVNHRDKINGKRKTAKHLRKL SMKEREHGEKE  
RQVSEAEENGKLDMKEIHTYMEMFQRAQALRRRAEDYYRCKITPSARKPLCNVRMAAAE  
HRHSSGLPYWPYLTAE TLK NRMGHQPPPTQQHSIIDNSLSLKTPECLLTPLPPSALPS  
ADDNLKTAECLLYPLPSADDNLKTPECLLTPLPPSAPPSADDNLKTTPKCVCSLPFH  
PQRMIISRN

>sp|E9PJI5|NP1A7\_HUMAN Nuclear pore complex-interacting protein family member A7 OS=Homo  
sapiens GN=NP1A7 PE=1 SV=1

MFCCLGYEWLSSGCTTWHSWVINTLADHRHRGTDGFGSPWLLIITVFLRSYKFAISLCT  
SYLCVSFLKTI FPSQNGHDGSTDVQQRARRSNRRRQEGIKI VLEDIFTLWRQVETKVRK  
IRKMKVTTKVNHRDKINGKRKTAKHLRKL SMKEREHREERQVSEAEENGKLDMKEIHT  
YMEMFQRAQALRRRAEDYYRCKITPSARKPLCNVRMAAAEHRHSSGLPYWPYLTAE TLK

NRMGHQPPPTQQHSIIDNSLSLKTPECLLTPLPPSALPS  
ADDNLKTPAECLLYPLPPSADDNLKTPPECLLTPLPPSAPPSADDNLKTPPECVCSLPFH  
PQRMIISRN

>sp|E9PQR5|NPIB8\_HUMAN Nuclear pore complex-interacting protein family member B8 OS=Homo sapiens GN=NPIB8 PE=3 SV=1

MVKLSIVLTPQFLSHDQGLTKELQQHVKSVTCPCEYLKVINSLAVYRHRETDFGVGVR  
DHPGQHGKTPSPQKLDNLI IIIIGFLRCYTFNILFCTSCLCVSFLKTFWSRNGHDGSMD  
VQQRWRSNRSRQGLRSICMHTKKRVSSFRGNKIGLKDVITLRRHVETKVRAKIRKRKV  
TTKINRHDKINGKRKTARKQKMFQRAQELRRRAEDYHKCKIPPSARKPLCNWVRMAAAEH  
RHSSGLPYWLYLTAETLKNRMGRQPPPTQQHSITDNSLSLKTPECLLTPLPPSVDDNI  
KECPLAPLPPSPLPPSVDDNLKECLFVPLPPSPLPPSVDDNLKECLFVPLPPSPLPPSV  
DNLKTPPLATQEAEEVKPPKPKRWVDEVEQSPKPKRQREAEAAQLPKPKRRRLSKLRTR  
HCTQAWAIRINP

>sp|Q15818|NPTX1\_HUMAN Neuronal pentraxin-1 OS=Homo sapiens GN=NPTX1 PE=2 SV=2

MPAGRAARTCALLALCLLGAGAQDFGPTRFICTSVPVADMCASVAAGGAEELRSSVLQ  
LRETVLQQKETILSQKETIRELTAKLGRCESQSTLDPGAGEARAGGGRKQPGSGKNTMGD  
LSRTPAAETLSQLGQTLQSLKTRLENLEQYSRLNSSSQTNLSKDLLQSKIDELERQVLSR  
VNTLEEGKGGPRNDTEERVKIETALTSLHQRISELEKGQKDNRPQDKFQLTFPLRTNYMY  
AKVKKSLPEMYAFTVCMWLKSSATPGVGTPFSYAVPGQANELVLIWGNPMEILINDKV  
AKLPFVINDGKWHHICVTWTTRDGVWEAYQDGTQGGSGENLAPYHPIKPGVLVLGQEQD  
TLGGGFDTAQAFVGLAHFNIWDRKLTPEVYNLATCSTKALSGNVIAWAESHIEIYGA  
TKWTFEACRQIN

>sp|Q15406|NR6A1\_HUMAN Nuclear receptor subfamily 6 group A member 1 OS=Homo sapiens GN=NR6A1 PE=1 SV=2

MERDEPPPSGGGGGGSAGFLEPPAALPPPPRNGFCQDELAELDPGTISVSDDRAEQRTC  
LICGDRATGLHYGIISCEGCKGFFKRSICNKRIVYRCSRDKNCVMSRKQRNRCQYCRLLKC  
LQMGMNRKAIREDGMPGGRNKSIGPVQISEEEIERIMSGGEFEEANHWSNHGSDHSSP  
GNRASESNQPSPGSTLSSSRSELNGFMAFREQYMGMSVPPHYQYIPHLFSYSGHSPLLP  
QQARSLDPQSYSLIHQLLSAEDLEPLGTPMLIEDGYAVTQAEFALLCRLADELLFRQIA  
WIKKLPPFCELSIKDYTCLLSSTWQELILLSSLTVYSKQIFGELADVTAKYSPSDEELHR  
FSDEGMEVIERLIYLYHKFHLKVSNEEYACMKAINFLNQDIRGLTSASQLEQLNKRYWY  
ICQDFTEYKYTHQPNRFPDLMCLPEIRYIAGKMVNPVLEQLPLLFKVVLHSCKTSVGKE

>sp|Q7Z6K4|NRARP\_HUMAN Notch-regulated ankyrin repeat-containing protein OS=Homo sapiens GN=NRARP PE=2 SV=1

MSQAEI STCSAPQTQRIFQEAVRKNTQELQSLQNMTCNCFNVNSFGPEGQTALHQSVI  
DGNLELVKLLVKFGADIRLANRDGWSALHIAAFGGHQDIVLYLITKAKYAASGR

>sp|O43847|NRDC\_HUMAN Nardilysin OS=Homo sapiens GN=NRDC PE=1 SV=2

MLRRVTVAAVCATRRKLCEAGRELAALWGIETRGRCEDSAAARPFPILAMPGRNKAKSTC  
SCPDLPNGQDLGENSRVARLGADESEEEGRRGSLSNAGDPEIVKSPSDPKQYRYIKLQN  
GLQALLISDLNMEGKTGNTTDEEEEEVEEEDDEDGAEIEDDDEEGFDEDEFDDE  
HDDDLDTEDNELEELEERAARKKTTEKQSAALCVGVGSFADPDDLPLGLAHFLEHMVFM  
GSLKYPDENGFD AFLKKHGGSDNASTDCERTVFQFDVQRKYFKEALDRWAQFFIHPLMIR  
DAIDREVEAVDSEYQLARPSDANKEMLFGSLARPGHPMGKFFWGNAETLKHEPRKNNID  
THARLREFWMRYSSHYMTLVVQSKETLDTLEKVVTEIFSQIPNGLPRPNFGHLTDPFDP

TPAFNKLYRVVPIRKIHALTITWALPPQQQHVRVKPLHYISWLVGHEGKGSILSFLRKKC  
WALALFGGNGETGFEQNSTYSVFSISITLTDEGYEHFYEVAYTVFQYLKMLQKLGPEKRI  
FEEIRKIEDNEFHQEQETDPVEYVENMCENMQLYPLQDILTGDQLLFEYKPEVIGEALNQ  
LVPQKANLVLLSGANEGKCDLKEKWFGTQYSIEDIENSWAELWNSNFELNPDHLPAENK  
YIATDFTLKAFCPETEYPVKIVNTPQGCLWYKKNKFKIPKAYIRFHLISPLIQKSAAN  
VVLFDIFVNILTHNLAEPAYEADVAQLEYKL VAGEHGLIIRVKGFNHKLPLLFQLIIDYL  
AEFNSTPAVFTMITEQLKKTFFNLIKPETLAKDVRLILEYARWSMIDKYQALMDGLSL  
ESLLSFVKEFKSQLFVEGLVQGNVTSTESMDFLKYYVDKLNFKPLEQEMPVQFQVVELPS  
GHHLCVKALNKGDNSEVTVYYQSGTRSLREYTLMELLVMHMEPCFDFLRTKQTLGYH  
VYPTCRNTSGILGFSVTVGTAQKYNSEVVDKKIEEFLSSFEEKIENLTEEAFNTQVTAL  
IKLKECEDTHLGEEDVRNNEVVTQQYLFDRLAHEIEALKSFSKSDLVNWFKAHRGPGSK  
MLSVHVVGYGKYLEEDGTPSSSEDSNSSCEVMQLTYLPTSPLLADCIIPITDIRAFTTTL  
NLLPYHKIVK

>sp|Q9NV35|NUDT15\_HUMAN Nucleotide triphosphate diphosphatase NUDT15 OS=Homo sapiens  
GN=NUDT15 PE=1 SV=1

MTASAQPRGRRPGVGGVVVTSCKHPRCVLLGKRKGSVGAGSFQLPGGHLEFGETWEECA  
QRETWEEAALHLKNVHFASVNSFIEKENYHYVTILMKGEVDVTHDSEPKNVEPEKNESW  
EWVPWEELPPLDQLFWGLRCLKEQGYDPFKEDLNHLVGYKGNHL

>sp|Q6ZVK8|NUDT18\_HUMAN 8-oxo-dGDP phosphatase NUDT18 OS=Homo sapiens GN=NUDT18 PE=1 SV=3

MASEGLAGALASVLAGQGSSVHSCDSAPAGEPPAPVRLRKNVCYVVLAVFLSEQDEVLLI  
QEAKRECRGSWYLPAGRMPEGETIVEALQREVKEEAGLHCEPETLLSVEERGSPSWRVFV  
LARPTGGILKTSKEADAESLQAAWYPRTSPLTPLRAHDILHLVELAAQYRQQARHPLILP  
QELPCDLVCQRLVATFTSAQTVVVLVGTVMGPHLPVTACGLDPMEQRGGMKMAVLRLQ  
CLTLHHLVVEIKGLGLQHLGRDSDGICLVLTVAFRSPGIQDEPPKVRGENFSWWKV  
MEEDLQSQLLQRLQGSSVVPVNR

>sp|Q9BW91|NUDT9\_HUMAN ADP-ribose pyrophosphatase, mitochondrial OS=Homo sapiens GN=NUDT9  
PE=1 SV=1

MAGRLLGKALAAVSLALASVTIRSSRCRGIQAFRNSFSSSWFHLNTNVMMSGNNGSKEN  
SHNKARTSPYPGSKVERSQVPNEKVGWLVEWQDYKPEYTAHSVLAGPRWADPQISESNF  
SPKFNEKDGHVERKSKNGLYEIENGRPRNPAGRTGLVGRGLLGRWGNHAADPIITRWKR  
DSSGNKIMHPVSGKHILQFVAIKRKDCGEWAIPGGMVDPGEKISATLKREFGEEALNSLQ  
KTSAEKREIEEKLHLKLSQDHLVIYKGYVDDPRNTDNAMEAVNYHDETGEIMDNML  
EAGDDAGKVKWVDINDKLKLYASHSQFIKLVAEKRDAHWESEADCHAL

>sp|Q9BZD4|NUF2\_HUMAN Kinetochore protein Nuf2 OS=Homo sapiens GN=NUF2 PE=1 SV=2

METLSFPRYNVAEIVIHIRNKILTGADGKNLTKNDLYPNPKPEVLHMIYMRALQIVYGIR  
LEHFYMPVNSEVMYPHLMGFLPFSNLVTHLDSFLPICRVNDFETADILCPKAKRTSRF  
LSGIINFIFREACRETYMEFLWQYKSSADKMQQLNAAHQEALMKLERLDSVPVEEQEEF  
KQLSDGIQELQQSLNQDFHKTIVLQEGNSQKKSNISEKTKRLNELKLSVVSLEIKIESL  
KTKIVDSPEKLKNYKEKMDTVQKLKNARQEVVEKYEIYGDSVDCLPSCQLEVQLYQKKI  
QDLSDNREKLASILKESLNLEDQIESDESELKKLKTEENSFKRLMIVKKEKLATAQFKIN  
KKHEDVKQYKRTVIEDCNKVQEKRGAVYERVTTINQEIQIKILGIQQLKDAAREKLSQ  
EIFLNLKTALEKYHDGIEKAAEDSYAKIDEKTAELKRKMFKMST

>sp|Q14980|NUMA1\_HUMAN Nuclear mitotic apparatus protein 1 OS=Homo sapiens GN=NUMA1 PE=1  
SV=2

MTLHATRGAALLSWVNSLHVADPVEAVLQLQDCSIFIKIIDRIHGTEEGQILKQPVSER  
LDFVCSFLQKNRHPSSPECLVSAQKVLEGSELELAKMTMLLLYHSTMSSKSPRDWEQFE  
YKIQAEALAVILKFVLDHEDGLNLEDLENFLQKAPVPSTCSSTFPEELSPPSHQAKREIR  
FLELQKVASSSSGNFLSGSPASPMGDILQTPQFQMRRLKKQLADERSNRDELELELAEN  
RKLLTEKDAQIAMMQRIDRLALLNEKQAASPLEPKELEELRDKNESLTMRLHETLKQCQ  
DLKTEKSQMDRKINQLSEENGDLSEFKLREFASHLQQLQDALNELTEEHSKATQEWLEKQA  
QLEKELSAALQDKKCLEEKNEILQGKLSQLEEHLSQLQDNPPQEKGVLGVDVLQLETLKQ  
EAATLAANNTQLQARVEMLETERGQQEAKLLAERGHFEEKQQLSSLITDLQSSISNLSQ  
AKEELEQASQAHGARLTAQVASLTSELTTLNATIQQQDQELAGLKQQAQKQAQLAQTQ  
QQEQASQGLRHQVEQLSSSLKQKEQQLKEVAEKQEAQRDHAQQLATAAEEREASLRERD  
AALKQLEALEKEKAACLEILQQQLQVANEARDSAQTSTVTAQREKAELSRKVEELQACVE  
TARQEQAQAQVAEELQLRSEQQKATEKERVAAEKDQLQEQLQALKESLKVTKGSLEE  
EKRRADALEEQQRCSSELKAETRSLVEQHKRERKELEERAGRKGLEARLQQLGEAHQA  
ETEVLRRLEAEAMAAQHTAESECEQLVKEVAWRERYEDSQEEAQYGAMFQEQLMTLKE  
ECEKARQELQEAKEKVAGIESHSELQISRQQNELAELHANLARALQQVQEKEVRAQKLAD  
DLSTLQEKMAATSKEVARLETIVRKAGEQQETASRELVKEPARAGDRQPEWLEEQQGRQF  
CSTQAALQAMERAEQMGNELERLRAALMESQGGQQEERGQQEREVARLTQERGRAQADL  
ALEKAARAELEMRLQNALNEQRVEFATLQEAALAHALTEKEGKDQELAKLRGLEAAQIKEL  
EELRQTVKQLKEQLAKKEKEHASGSAQSEAAGRTEPTGPKLEALRAEVSKLEQQCQKQQ  
EQADSLERSLEAERASRAERDSALETQGGQLEEKAAQELGHSQSALASAQRELAAFRTKVQ  
DHSKAEDEWKAQVARGRQEAERKNSLSSLEEEVSILNRQVLEKEGESKELKRLVMAESE  
KSQKLEERLRLQAEASNSARAAERSSSALREEVQSLREEAEKQRVASENLRQELTSQAE  
RAEELGQELKAWQEKFQKEQALSTLQLEHTSTQALVSELLPAKHLCQQLQAEQAAAEKR  
HREELEQSKQAAGGLRAELLRAQRELGELIPLRQKVAEQERTAQQRLAEKASYAEQLSML  
KKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQELAAVRADAETRLAEVQREAQS  
TARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEQLEVFQREQTKQVEELSKKLAD  
SDQASKVQQQKLKAVQAQGGESQQAQRLQAQLNELQAQLSQKEQAAEHYKLQMEKAKTH  
YDAKKQQNQLQEQLRSLEQLKENKELRAEAERLGHELQQAGLKTKEAEQTCRHLTAQV  
RSLEAQVAHADQQLRDLGKFQVATDALKSREPQAKPQLDLSIDSLDLSCEEGTPLSITSK  
LPRTQPDGTSVPGEPASPISQRLPPKVESLESYFTPIPARSQAPLESSLDSLGDVFLDS  
GRKTRSARRRTTQIINITMTKKLDVEEPDSANSSFYSTRSAPASQASLRATSSTQSLARL  
GSPDYGNSALLSLPGYRPTTRSSARRSQAGVSSGAPPGRNSFYMGTCQDEPEQLDDWNRI  
AELQQRNRVCPHLKTCYPLESRPSLSLGTITDEEMKTGDPQETLRRASMQPIQIAEGTG  
ITTRQQRKRVSLPHQPGPTPESKKATSCFPRPMTPRDRHEGRKQSTTEAQKKAAPASTK  
QADRRQSMAFSILNTPKKLGNSLLRRGASKKALSKASPNTRSGTRRSPRIATTTASAATA  
AAIGATPRAKGKAKH

>sp|Q9H207|O10A5\_HUMAN Olfactory receptor 10A5 OS=Homo sapiens GN=OR10A5 PE=2 SV=1  
MAIGNWTEISEFILMSFSSLPTEIQSLLFLTFTIYLVTLKGNLSIILVTLADPMLHSPM  
YFFLRNLSFLEIGFNLVIVPKMLGTLLAQDTTISFLGCATQMYFFFFGVAECFLLATMA  
YDRYVAICSPLHPYIMNQRTAKLAAASWFGFPVATVQTTWLFSPFCGTNKNVHFFC  
DSPPVLKLVCADTALFEIYAIVGTILVVMIPCLLILCSYTRIAAAILKIPSAKGKHKAFS  
TCSSHLLVVSLFYISSSLTYFWPKSNNSPESKKLLSLSYTVVTPMLNPITYSLRNSEVKN  
ALSRTFHKVLALRNCIP

>sp|Q8NH19|O10AG\_HUMAN Olfactory receptor 10AG1 OS=Homo sapiens GN=OR10AG1 PE=2 SV=1

MEFVLLGFSDIPNLHWMLFSIFLLMYLMILMCNGIIILLIKIHPALQTPMYFFLSNFSLL  
EICYVTIIIPRMLMDIWTQGNISLFACATQMCFFLMLGGTECLLLTMAYDRYVAICKP  
LQYPLVMNHKVCIQLIASWTITIPVVIGETCQIFLLPFCGTNTINHFFCDIPPILKLAC  
GNIFVNEITVHVAVVFITVPFLLIVVSYGKIIISNILKLSSARGKAKAFSTCSSHLIVVI  
LFFGAGTITYLQPKPHQFQRMGKLISLFYTLIPTLNPIIYTLRNKDIMVALRKLLAKLL  
T

>sp|Q8NGN3|O10G4\_HUMAN Olfactory receptor 10G4 OS=Homo sapiens GN=OR10G4 PE=3 SV=1  
MSNASLVTAFLTGLPHAPGLDALLFGIFLVVYVLTVLGNLLILLVIRVDSHLHTPMYYF  
LTNLSFIDMWFSTVTPKMLMTLVSPSGRAISFHSCVAQLYFFHFLGSTECFLYTVMSYD  
RYLAISYPLRYTSMMSGSCALLATGTWLSGSLHSAVQTILTFHLPYCGPNQIQHYFCDA  
PPILKLACADTSANVMVIFVDIGIVASGCFVLIVLSYVSIVCSILRIRTSDDRRAAFQTC  
ASHCIVVLCFFVPCVVIYLRPGSMDAMDGVVAIFYTVLTPLLNPPVYTLRNKEVKKAVLK  
LRDKVAHPQRK

>sp|Q8NGN6|O10G7\_HUMAN Olfactory receptor 10G7 OS=Homo sapiens GN=OR10G7 PE=3 SV=1  
MSNATLLTAFLTGLPHAPGLDAPLFGIFLVVYVLTVLGNLLILLVIRVDSHLHTPMYYF  
LTNLSFIDMWFSTVTPKMLMTLVSPSGRTISFHSCVAQLYFFHFLGSTECFLYTVMSYD  
RYLAISYPLRYTNMGTGRSCALLATGTWLSGSLHSAVQTILTFHLPYCGPNQIQHYFCDA  
PPILKLACADTSANEMVIFVNIGLVASGCFVLIVLSYVSIVCSILRIRTSEGRHRAAFQTC  
ASHCIVVLCFFGPGFLFIYLRPGSRDALHGVVAVFYTTLTPLFNPVYTLRNKEVKKALLK  
LKNGSVFAQGE

>sp|Q8NGF6|O10W1\_HUMAN Olfactory receptor 10W1 OS=Homo sapiens GN=OR10W1 PE=2 SV=1  
MEFVFLAYPSCPELHLSFLGVSLVYGLIITGNILIVSIHTETCLCTSMYYFLGSLSGI  
EICYTAVVVPFILANTLQSEKTITLLGCATQMAFFIALGSADCFLLAAMAYDRYVAICHP  
LQYPLMLTLTLCVHLVVASVISGLFSLQLVAFIFSLPFCQAQGIEHFFCDVPPVMHVVC  
AQSHIHEQSVLVAAILAIAVPFFLITTSYTFIVAALLKIHSAAGRHRFAFSTCSSHLTVVL  
LQYGCCAFMYLCPSSSYNPKQDRFISLVYTLGTPLLNPLIYALRNSEMKGAVGRVLTRNC  
LSQNS

>sp|P58182|O12D2\_HUMAN Olfactory receptor 12D2 OS=Homo sapiens GN=OR12D2 PE=2 SV=2  
MLNTTSVTEFLLLGVTDIQELQPFLFVVFLTIIYFISVTGNGAVLMIVISDPRHLHSLMYFF  
LGNLSYLDICYSTVTLPKMLQNFLSTHKAISFLGCISQLHFFHSLGSTESMLFAVMAFDL  
SVAICKPLRYTVIMNPQLCTQMAITIWVIGFFHALLHSMVTSRLNFCGSNRIHHFLCDIK  
PLLKLACGNTELNQWLLSTVTGTIAMGPFFLTLLSYFYIITYLFFKTRSCSMLCKALSTC  
ASHFMVVILFYAPVLFTYIHPALESFMDQDRIVAIMYTVVTPVLNPLIYTLRNKEVKGAL  
GRVIRRL

>sp|Q8NGS9|O13C2\_HUMAN Olfactory receptor 13C2 OS=Homo sapiens GN=OR13C2 PE=2 SV=1  
MEWENHTILVEFFLKGLSGHPRELLFFVLIFIMYVVILLGNGTLILISILDPHLHTPMY  
FFLGNLSFLDICYTTTSIPSTLVSLSERKTISLSCAVQMFLGLAMGTTECVLLGMMAF  
DRYVAICNPLRYPIIMSKDAYVPMAGSWIIGAVNSAVQSVFVVQLPFCRNIIINHFTCE  
ILAVMKLACADISDNEFIMLVATTLFILTPLLLIIVSYTLIIVSIFKISSSEGRSKAST  
CSAHLTVVIFIFYGTILFMYMKPKSKETLNSDDLDTDKIISMFGVMTMPMNPLIYSLRN  
KDVKEAVKHLLNRRFFSK

>sp|Q8NGS5|O13C4\_HUMAN Olfactory receptor 13C4 OS=Homo sapiens GN=OR13C4 PE=3 SV=1  
MDKINQTFVREFILLGLSGYPKLEIFFALILVMYVVLIGNVLIISILDSRLHMPMY  
FFLGNLSFLDICYTTSSIPSTLVSLISKRNISFSGCAVQMFFGFAMGSTECFLLGMMAF



DRYVAICNPLRYPIMNKVVYVLLTSVSWLSGGINSTVQTSLAMRWPFCGNNIINHFLCE  
ILAVLKLACSDISVNIVTLAVSNIAFLVLPLLVIFFSYMFILYITILRTNSATGRHKAFST  
CSAHLTVVVIIFYGTIFFMYAKPKSQDLLGKDNLQATEGLVSMFYGVVTPMLNPITISLRN  
KDVKAATKYLRSRKAINQ

>sp|PODN81|O13C7\_HUMAN Olfactory receptor 13C7 OS=Homo sapiens GN=OR13C7 PE=3 SV=1  
MVSANQTASVTEFILLGLSAHPKLEKTFVLLILLMYLVILLGNGVLILMTVSNSHLHMPM  
YFFLGNLSFLDICYTTSSVPLILDSFLTTPRKITSFSACAVQMFLSFAMGATECVLLSMMA  
FDRYVAICNPLRYPVVMKAAYMPKAAGSWVAGSTASMVQTSLAMRLPFCGDNIINHFTC  
EILAVLKLACADISVNVISMGTNVIFLGPVLFISFSYVFIIATILRIPSAEGRKKAFS  
TCSAHLTVVVIIFYGTILFMYGPKSKDPLGADKQDLADKLISLFYGVVTPMLNPITISLR  
NKDVKAAYRDLIFQKCF

>sp|Q8NGV5|O13D1\_HUMAN Olfactory receptor 13D1 OS=Homo sapiens GN=OR13D1 PE=2 SV=3  
MYRFTDFDVSNISIYLNHVLFYTTQQAGDLEHMETRNYSAMTEFFLVGLSQYPELQLFLF  
LLCLIMYMIILLGNSLLIIITILDSRLHTPMYFFLGNLSFLDICYTSSSIPPMLIIFMSE  
RKSISFIGCALQMVVSLGLGSTECVLLAVMAYDHYVAICNPLRYSIIMNGVLYVQMAAWS  
WIIGCLTSLLQTVLTMMLPFCGNNVIDHITCEILALLKLVCSGITINVLIMTVTNIVSLV  
ILLLLIFISYVFILSSILRINCAEGRKKAFSTCSAHSIVVILFYGSALFMYMKPKSKNTN  
TSDEIIGLSYGVVSPMLNPITISLRNKEVKEAVKKVLSRHLHLLKM

>sp|Q8NG92|O13H1\_HUMAN Olfactory receptor 13H1 OS=Homo sapiens GN=OR13H1 PE=2 SV=1  
MAMDNVTAVFQFLIGISNYPQWRDTFFTLVLIYLTLLGNGFMIFLIHFDPNLHTPIY  
FFLSNLSFLDLCYGTASMPQALVHCFSTHPYLSYPRCLAQTSVSLALATAECLLLAAMAY  
DRVVAISNPLRYSVVMNGPVCVCLVATSWGTSVLVTAMLILSLRLHFCGANVINHFACI  
LSLIKLTCSDTSLNEFMILITSIFTLLLPGFVLLSYIRIAMAIIRIRSLQGRKAFSTC  
GSHLTVVTIFYGSAISMYMKTQSKSYPDQDKFISVFYGALTPMLNPITISLRKKDKVKRAI  
RKVMLKRT

>sp|Q96R54|O14A2\_HUMAN Olfactory receptor 14A2 OS=Homo sapiens GN=OR14A2 PE=3 SV=2  
MANVTLVGTGFLMGFSNIQKLRIYGVFLLLIYLAALMSNLLIITLITLDVKLQTPMYFF  
LKNLSFLDVFLVSPIPKFIVNNLTHNNSISILGCAFQLLLMTSFSAGEIFILTAMSYDR  
YVAICCPNLYEIVMNTGVCVLMASVSWAIGLFGTAYTAGTFSMPFCGSSVIPQFFCDVP  
SLLRISCSETLMVIYAGIGVGAACLSISCFICIVISYIYIFSTVLKIPTTKGQSKAFSTCF  
PHLTVFTVFIITAYFVYLKPPSNSPSVIDRLLSVIYTVMPVFNPTVYSLRNNDMKCALI  
RLLQKTYGQEAYFI

>sp|Q8NGZ2|O14K1\_HUMAN Olfactory receptor 14K1 OS=Homo sapiens GN=OR14K1 PE=3 SV=2  
MTNQTQMMEFLLVRFTENWVLLRLHALLFSLIYLTAVLMNLVIIILLMILDHRLHMAMYFF  
LRHLSFLDLCLISATVPKILNSVASTDSISFLGCVLQLFLVLLAGSEIGILTAMSYDR  
YAAICCPHCEAVMSRGLCVQLMALSWLNRGALGLLYTAGTFSLNFYGSDELHQFFCDVP  
ALLKLTCSKEHAIISVSVAIGVCYAFSCLVCIVVSIVYIFSAVLRISQRQRQSKAFSNCV  
PHLIVTVFVLTVGAVYLPKPSDAPSILDLLSVFYSVAPPTLNPVIYCLKNKDIKSALS  
KVLWNVRSSGVMKR

>sp|A4D2G3|O2A25\_HUMAN Olfactory receptor 2A25 OS=Homo sapiens GN=OR2A25 PE=2 SV=2  
MGGNQTSITEFLLGFPIGPRIQMLLFGFLSFYIFILLGNGTILGLISLDSRLHTPMYF  
FLSHLAVVDIACACSTVPQMLNLLHPAKPISFAGCMTQMFLFLSFAHTECLLLVMSYD  
RYVAICHPLRYSTIMTWKVCITLALTSWILGVLLALVHLVLLPLSFCGPQKLNHFFCEI  
MAVLKLACADTHINEVMVLAVSVLVGAFFSTVISYVHILCAILKIQSGEGCQKAFSIC

SSHLCVVGLFYGTAIMYVEPQYESPKQKKYLLLFHSLFNPMLNPLIYSLRNKEVQGT  
KRMLEKKRTS

>sp|Q8NG84|O2AK2\_HUMAN Olfactory receptor 2AK2 OS=Homo sapiens GN=OR2AK2 PE=2 SV=2  
MNISDVISFDILVSAMKTGNQSFQDFTLLVGLFQYGWINSLLFVVIATLFTVALTGNIML  
IHLIRLNTRLHTPMYFLLSQLSIVDLMYISTTVPKMAVSFLSQSKTIRFLGCEIQTYVFL  
ALGGTEALLLGFMSYDRYVAICHPLHYPMLMSKKICCLMVACAWASGSINAFIHTLYVFQ  
LPFCRSRLINHHFCEVPALLSLVCQDTSQYEYTVLLSGLIILLPLAILASYARVLIVV  
FQMSSGKGQAKAVSTCSSHLIVASLFYATTLFTYTRPHSLRSPSRDKAVAVFYTIVTPLL  
NPFIIYSLRNKEVTGAVRRLLGYWICCRKYDFRSLY

>sp|Q8NGZ9|O2T10\_HUMAN Olfactory receptor 2T10 OS=Homo sapiens GN=OR2T10 PE=2 SV=1  
MRLANQTLGGDFLLGLFSQISHPGRLCLLIFSIFLMAVSWNITLILLIHIDSSLHTPMY  
FFINQLSLIDLTYISVTPVKMLVNQLAKDKTISVLGCGTQMYFYQLGGAECCLLAAMAY  
DRYVAICHPLRYSVLMSHRVCLLASGCWFVGSVDGFMLTPIAMSFPFCRSHEIQHFFCE  
VPAVLKLSCTDSLKYIFMYLCCVIMLLIPVTVISVSYYYIILTIHKMNSVEGRKKAFTT  
CSSHITVVSFLFYGAAYNYMLPSSYQTPEKDMSSFFYTILTPVLNPIIYSFRNKDVTRA  
LKKMLSVQKPPY

>sp|Q8NH04|O2T27\_HUMAN Olfactory receptor 2T27 OS=Homo sapiens GN=OR2T27 PE=3 SV=1  
MEQSNYSVYADFILLGLFSNARFPWLLFALLVFLTSIASNVVKIILLIHIDSRHTPMY  
FLLSQLSLRDILYISTIVPKMLVDQVMSQRAISFAGCTAQHFLYTLAGAEFFLLGLMSY  
DRYVAICNPLHYPVLMRSKICWLIVAAAWLGGSIDGFLLTPVTMQFPFCASREINHHFCE  
VPALLKLSCTDTSAYETAMYVCCIMMLLIPFSVISGSYTRILITVYRMSEAEGRGKAVAT  
CSSHMVVVSLFYGAAMYTYVLPHSYHTPEQDKAVSAFYTILTPMLNPLIYSLRNKDVTA  
LQKVVGRCVSSGKVTF

>sp|Q8NGX2|O2T35\_HUMAN Olfactory receptor 2T35 OS=Homo sapiens GN=OR2T35 PE=3 SV=1  
MGMEGLLQNSTNFVLTGLITHPAFPGLLFAVVSIFVVAITANLVMILLIHMSRLHTPM  
YFLLSQLSIMDTIYICITVPKMLQDLSKDKTISFLGCAVQIFYLTLIGGEFFLLGLMAY  
DRYVAVCNPLRYPLLMNRRVCLFMVVGSWVGGSLDGFMLTPVTMSFPFCRSREINHHFCE  
IPAVLKLSCTDTSLEYTLMYACCVLMLLIPLSVISVSYTHILLTVHRMNSAEGRRKAFAT  
CSSHIMVVSFYGAAFYTNVLPHSYHTPEKDKVSAFYTILTPMLNPLIYSLRNKDVA  
LRKVLGRCGSSQSIRVATVIRKG

>sp|Q8NH61|O51F2\_HUMAN Olfactory receptor 51F2 OS=Homo sapiens GN=OR51F2 PE=2 SV=2  
MTETSLSSQCFPMVLNNTIAEPLIFLLMGIPGLKATQYWISIPFCLLYVAVSGNSMIL  
FVVLCSRLHKPMYFSLMLSATDLSLSLCTLSTTLGVFWFEAREINLNACIAQMFFLHG  
FTFMESGVLLAMAFDRFVAICYPLRYTTILTNRARIAKIGMSMLIRNAVMLPVMLFVKRL  
SFCSSMVLSSHSCYHVDLIQLSCTDNRINSILGLFALLSTTGFDPCILLSYILIIIRSVL  
SIASSEERRKAFNTCTSHISAVSIFYLPLISLSLVHRYGHSAPPFVHIIMANVFLIPPV  
LNPIIYSVKIKQIQKAIKVLIIQKHSKSNHQLFLIRDKAIYE

>sp|Q8TAD7|OCC1\_HUMAN Overexpressed in colon carcinoma 1 protein OS=Homo sapiens GN=OCC1  
PE=1 SV=2  
MGCGNSTATSAGAGQGPAGAAKDVTEESVTEDDKRRNYGGVYVGLPSEAVNMVSSQTKTV  
RKN

>sp|P11177|ODPB\_HUMAN Pyruvate dehydrogenase E1 component subunit beta, mitochondrial  
OS=Homo sapiens GN=PDHB PE=1 SV=3  
MAAVSGLVRRPLREVSGLLKRRFHWTAALQVTVRDAINQGMDEELERDEKVFLLGEEV

AQYDGAYKVSRLWKYGDKRIIDTPISEMGFAGIAGVGAAMAGLRPICEFMTFNFMSQAI  
DQVINSAAKTYMSGGLQPVPVIFRGPNGASAGVAAQHSQCFAAWYGHCPGLKVVSPWNS  
EDAKGLIKSAIRDNNPVVLENELMYGVPFEFPPEAQSKDFLIPIGKAKIERQGTHITVV  
SHSRPVGHCLAAAVLSKEGVECEVINMRTIRPMDMETIEASVMKTNHLVTVEGGWPQFG  
VGAEICARIMEGPAFNFLDAPAVRVTGADVMPYAKILEDNSIPQVKDIIFAIKKTLNI

>sp|Q9Y466|NR2E1\_HUMAN Nuclear receptor subfamily 2 group E member 1 OS=Homo sapiens  
GN=NR2E1 PE=1 SV=1

MSKPAGSTSRILDIPCKVCGDRSSGKHGYACDGCSGFFKRSIRRNRTYVCKSGNQGGC  
PVDKTHRNQCRACRLKKCLEVNMNKDAVQHERGPRTSTIRKQVALYFRGHKEENGAAAHF  
PSAALPAPAFFTAVTQLEPHGLELAAVSTTPERQTLVSLAQPTPKYPHEVNGTPMYLYEV  
ATESVCESAARLLFMSIKWAKSVPAFSTLSLQDQLMLEDAREFLVLGIAQWAIQVNDAN  
TLLAVSGMNGDNTDSQKLNKIISEIQALQEVVARFRQLRLDATEFACLCIVTFKAVPTH  
SGSELRSFRNAAIAALQDEAQLTLNSYIHTRYPTQPCRFGKLLLLPALRSISPSTIEE  
VFFKKTIGNVPITRLLSDMYKSSDI

>sp|P48552|NRIP1\_HUMAN Nuclear receptor-interacting protein 1 OS=Homo sapiens GN=NRIP1  
PE=1 SV=2

MTHGEELGSDVHQDSIVLTYLEGLLMHQAAGGSGTAVDKKSAGHNEEDQNFNISGSAPT  
CQSNPVLNTHTYQGSGMLHLKKARLLQSSQDWNAAKRKRLSDSIMNLNVKKEALLAGMV  
DSVPKQKQDSTLLASLLQSFSSRLQTVALSQQIRQSLKEQGYALSHDSLKVEKDLRCYGV  
ASSHLKTLKKSKVKDQKPDNTLPDVTKNLIRDRFAESPHHVQSGTKVMSEPLSCAARL  
QAVASMVEKRASPATSPKPSVACSLALLSSEAHLLQYSREHALKTQANQAASERLAA  
MARLQENGQKDVGSYQLPKGMSSHLNGQARTSSSKLMASKSSATVFQNPMMIIPSSPKNA  
GYKNSLERNNIKQAANNSLLLHLKSKTIPKPMNGHSHSERGSIFEESSTPTTIDEYSDN  
NPSFTDDSSGDESSYSNCVPIDLSCKHRTKESQDQVSLDNFTQSLNLTWDPKVPDQDI  
KEDQDTSKNSKLNHQQVTLLQLLLGHKNEENVEKNTSPQGVHNDVSKFNTQNYARTSVI  
ESPSTNRTPVSTPPLLTSSKAGSPINLSQHSLVIKWNPPYVCSTQSEKLTNTASNHSM  
DLTKSKDPPGEKPAQNEGAQNSATFSASKLLQNLAQCGMQSSMSVEEQRPQSKLLTGNTD  
KPIGMIDRLNSPLLSNKTNAVEENKAFSSQPTGPEPGLSGSEIENLLERRTVLQLLGNP  
NKGKSEKKEKTPLRDESTQEHSEALSEQILMVKIKSEPCDDLQIPNTNVHLSHDAKSAP  
FLGMAPAVQRSAPALPVSEDFKSEPVSPQDFSFKNGLLSRLLRQNDQSYLADDSRSHR  
NNEMALLESKNLCMPVKRKLTYTEPLENPFKKMKNNIVDAANNHSAPEVLYGSLLNQEEL  
KFSRNDLEFKYPAGHGSASEHRSWARESKSFNVLKQLLSENCVRDLSPHRSNSVADS  
KKKGHKNNVTNSKPEFSISSNLGLMYSSTQPSSCMDNRTFSYPGVVKTTPVSPTFPEHLGC  
AGSRPESGLLNGCSPSEKGIKVVITDAEKNEYEKDSPRLTKTNPIIYYMLQKGGNSVT  
SRETQDKDIWREASSAESVSQVTAKEELLPTAETKASFFNLRSPYNHMGNNASRPHSAN  
GEVYGLLGSVLTIKKESE

>sp|Q9H649|NSUN3\_HUMAN Putative methyltransferase NSUN3 OS=Homo sapiens GN=NSUN3 PE=2  
SV=1

MLTQLKAKSEGKLAKQICKVVLDFHEKQYSKELGDAWNTVREILTSPSCWQYAVLLNRFN  
YPFELEKDLHLKGYHTLSQGSPLNYPKSVKCYLSRTPGRIPSERHQIGNLKKYYLLNAAS  
LLPVLALRLDGEKVLDLCAAPGGKSIALLQCACPGYLHCNEYDSLRLRWLRQTLESFIP  
QPLINVIKVELDGRKMGAQPEMFDKVLVDAPCSNDRSWLFSSDSQKASCRIQRRNLP  
LLQIELLSAIALRPGGILVYSTCTLSKAENQDVISEILNSHGNIIMPMDIKGIARTCSH  
DFTFAPTGQECGLLVIPDKGKAWGPMYVAKLKKSWSTGKW

>sp|Q96CB9|NSUN4\_HUMAN 5-methylcytosine rRNA methyltransferase NSUN4 OS=Homo sapiens  
GN=NSUN4 PE=1 SV=2

MAALTLRGVRELLKRVDLATVPRRHRYKKKWAATEPKFPAVRLALQNFDMTYSVQFGDLW  
PSIRVSLLSEQKYGALVNNFAAWDHVSACLEQLSAKDFVNEAISHWELQSEGGQSAAPSP  
ASWACSPNLRCTFDRGDISRFPPARPGSLGVMEYYLMDAASLLPVLALGLQPGDIVLDL  
CAAPGGKTLALLQTGCCRNLAANDLSPSRIARLQKILHSYVPEEIRDGNQVRVTSWDGRK  
WGELEGDTYDRVLVDVPCTTDRHSLHEEENNIFKRSRKKERQILPVLQVQLLAAGLLATK  
PGGHVVYSTCSLSHLQNEYVVQGAIELLANQYSIQVQVEDLTHFRRVMDTFCFFSSCQV  
GELVIPNLMANFGPMYFCKMRRLT

>sp|Q9BV86|NTM1A\_HUMAN N-terminal Xaa-Pro-Lys N-methyltransferase 1 OS=Homo sapiens  
GN=NTMT1 PE=1 SV=3

MTSEVIEDEKQFYSAKTYWKQIPPTVDGMLGGYGHISSIDINSSRKFLQRFLREGPNKT  
GTSCALDCGAGIGRITKRLLLPLFREVDMDITEDFLVQAKTYLGEEGKRVRYNFCCLQ  
DFTPEPDSYDVIWIQWVIGHLTDQHLAEFLRCKGSLRPNGIIVIKDMAQEGVILDDVD  
SSVCRDLDVVRRICISAGLSLLAEERQENLPDEIYHVYSFALR

>sp|Q5VT03|NTM2D\_HUMAN NUT family member 2D OS=Homo sapiens GN=NUTM2D PE=3 SV=2

MFQEPVYFQIFLQFLDSGASGEPGHSGLTLGFSHCGNCQTAVVSAQPEGMASNGAYPAL  
GPGVTANPGTSLSVFTALPFTTPAPGPAHGPLLVTAGAPPGGPLVLSNFPSTPLVTEQDG  
CGPSGAGASNVFVQMRTEVGPVKAQAQTLVLTQTPLVWQAPGALCGGVVCPPLLLAAA  
PVVPVMAAQVVGGTQACEGWSQGLPLPPPPPPAAQLPPIVSQGNAGPWPQGAHGEGLA  
SSQAKAPPDDSCNPRSVYENFRLWQHYKPLARRHLPQSPDTEALSCFLIPVLRSLARRKP  
TMTLEGLWRAMREWQHTSNFDRMIFYEMAЕКFLEFEAEEMQIQKSQWMKGPQCLPPPA  
TPRLEPRGPAPPEVVKQPVYLPSKAGPKAPTACLPPRPQRPVTKARRPPRPHRRAETK  
ARLPPRPQRPAETKVPEEIPPEVVQEYVDIMEELLGPSLGATGEPEKQREEGEVKQPQE  
EDWTPDPGLLSYTDKLCQKDFVTKVEAVIHPQFLEELLSPDPQMDFLALSQELEE  
LTLAQLVEKRLPLKEKQHARAAPSRGTARLDSSSSKFAAGQGAERDVPDPQQGVGMETC  
PPQTTARDSQGRGRAHTGMARSKDSVLLGCQDSPGLRAARPTSPQDHRPTCPGVGTKD  
ALDLPGGSPVRESHGLAQSSSEEEELPSLAFLLGSQHKLLPWLPQSPVPASGLLSPEKW  
GPQGTHQSPSAERRGLNLAPSPANKAKKRPLFGSLSPAECTPHPGPLRVSGEQSLTWGL  
GGPSQSQRKGDPLVSRKEKKQRCSQ

>sp|095665|NTR2\_HUMAN Neurotensin receptor type 2 OS=Homo sapiens GN=NTSR2 PE=1 SV=2

METSSPRPPRPSSNPGLSLDARLGVDTLWAKVLFTALYALIWALGAAGNLSAHVVLKA  
RAGRAGRLRHHVLSLALAGLLLLLVGVPVELYSFVWFHYPWVFGDLGCRGYFVHELCA  
ATVLSVAGLSAERCLAVCQPLRARSLLTPRRTRWLVALSWAASLGLALPMAVIMGQKHEL  
ETADGEPEPASRVCTVLVSRTALQVFIQVNVLVSVFLPLALTAFLNGVTVSHLLALCSQV  
PSTSTPGSSTPSRLELLSEGLLSFIVWKKTFIQGGQVSLVRHKDVRRIRSLQRSVQVLR  
AIVVMYVICWLPYHARRLMYCYVPDDAWTDPLYNFYHYFYMVTNTLFYVSSAVTPLLYNA  
VSSSFRKLFLEAVSSLCGEHHPMKRLPPKPQSPTLMDTASGFGDPPETRT

>sp|Q16620|NTRK2\_HUMAN BDNF/NT-3 growth factors receptor OS=Homo sapiens GN=NTRK2 PE=1  
SV=1

MSSWIRWHGPAMARLWGFCWLVGFWRAAFACPTSCCKSASRIWCSDPSPGIVAFPRLEP  
NSVDPENITEIFIANQKRLEIINEDDVEAYVGLRNLTIVDSGLKFVAHKAFLKNSNLQHI  
NFTRNKLTSLSRKHFRHLDLSELILVGNPFTCSCDIMWIKTLQEAKSSPDTQDLYCLNES  
SKNIPLANLQIPNCGLPSANLAAPNLTVEEGKSITLSCSVAGDPVPNMYWDVGNLVSKHM

NETSHTQGSLRITNISSDDSGKQISCVAENLVGEDQDSVNLTVHFAPTITFLESPTSDHH  
WCIPFTVKGNPKPALQWFYNGAILNESKYICTKIHVTNHTEYHGCLQLDNPTHMNGDYT  
LIAKNEYGKDEKQISAHFMGWPIDDGANPNYPDVIYEDYGTAAANDIGDTTNRNEIPST  
DVTDKTGREHLSVYAVVVIASVVGFCLLVMLFLLKLARHSKFGMKGPASVISNDDDSASP  
LHHISNGSNTPSSEGGPDAVIIGMTKIPVIENPQYFGITNSQLKPDTFVQHIKRHNIVL  
KRELGEAGFGKVFLAECYNLCPEQDKILVAVKTLKDASDNARKDFHREAELLTNLQHEHI  
VKFYGVCVEGDPLIMVF EYMKHGDNLKFLRAHGPD AVLMAEGNPTELTSQMLHIAQQI  
AAGMVYLASQHFVHRDLATRNC LVGENLLVKIGDFGMSRDVYSTDYRVGGHTMLPIRWM  
PPESIMYRKFTTESDVWSLGVVLWEIFTYGKQPWYQLSNNEVIECITQGRVLQRPRTCPQ  
EVYELMLGCWQREPHMRKNIKIHTLLQNLAKASPVYLDILG

>sp|POC024|NUDT7\_HUMAN Peroxisomal coenzyme A diphosphatase NUDT7 OS=Homo sapiens  
GN=NUDT7 PE=2 SV=1

MSRLGLPEEPVRNSLLDDAKARLRKYDIGGKYSHLPYNKYSVLLPLVAKEGKLHLLFTVR  
SEKLRRAPGEVCFPGGKRDPDMDAATALREAQEEVGLRPHQVEVVCCLVPCLIDTDTL  
ITPFVGLIDHNFQAQPNPAEVKDVFLVPLAYFLHPQVHDQHYVTRLGHRFINHIFEYTNP  
EDGVTYQIKGMTANLAVLVAFIILEKKPTFEVQFNLDVLASSEELFLKVHKKATSRL

>sp|P49757|NUMB\_HUMAN Protein numb homolog OS=Homo sapiens GN=NUMB PE=1 SV=2

MNKLRQSFRRKKDVVPEASRPHQWQTDEEGVRTGKCSFPVKYLGHVEVDES RGMHICED  
AVKRLKAERKFFKGFFGKTGKKAVKAVLWVSADGLRVVDEKTKDLIVDQTIEKVSFCAPD  
RNFDRAFSYICRDGTRRRWICHCFMAVKDTGERLSHAVGCAFAACLERKQKREKECGVTA  
TFDASRTTFTREGSFRVTTATEQAEREEIMQMMDAKKAETDKIVVGSSVAPGNTAPSPS  
SPTSPTS DATTSLEMNPHAIPRRHAPIEQ LARQGSFRGFPALSQKMSPFKRQLSLRINE  
LPSTMQRKTD FPIKNAVPEVEGEAESISSLCSQITNAFSTPEDPFSSAPMTKPVTVVAPQ  
SPTFQANGTDSAFHVLAKPAHTALAPVAMPVRETNPWAHAPDAANKEIAATCSGTEWGQS  
SGAASPGLFQAGHRRTPSEADRWLEEVSKSVRAQQPQASAAPLQPVLP PPTAISQPAS  
PFQGN AFLTSQPVPGVVPALQPAFVPAQSYPVANGMPYPAPNPVVGITPSQMVANVFG  
TAGHPQAAHPHQSPSLVRQQTFPHYEASSATTSPFFKPPAQHLNGSAAFNGVDDGRLASA  
DRHTEVPTGTCPDVPFEAQWAALENKSKQRTNPSPTNPFSSDLQKTFEIEL

>sp|Q9BW27|NUP85\_HUMAN Nuclear pore complex protein Nup85 OS=Homo sapiens GN=NUP85 PE=1  
SV=1

MEELDGEPTVTLIPGVNSKKNQMYFDWGPGEMLVCETSFNKKEKSEMPSCPFIYIIRKD  
VDVYSQILRKLFNESHGIFLGLQRIDEELTGKSRSQLVRVSKNYRSVIRACMEEMHQVA  
IAAKDPANGRQFSSQVSILSAMELIWNLC EILFIEVAPAGPLLLHLLDWVRLHVCEVDSL  
SADVLGSENPSKHDSFWNLVTILVLQGRLEARQMLSKEADASPASAGICRIMGDLMRM  
PILSPGNTQTLTELELKWQHWHEECERYLQDSTFATSPHLESLLKIMLGDEAALLEQKEL  
LSNWHYHFLVTRLLYSNPTVKPIDLHYAQS SLDLFLGGESSPEPLDNILLAAFEFDIHQV  
IKECSIALSNWWFVAHLTDLLDHCKLLQSHNLYFGSNMREFLLLEYASGLFAHPSLWQLG  
VDYFDYCELPGRVSLELHIERIPLNTEQKALKVLRICEQRQMTEQVRSICKILAMKAVRN  
NRLGSALSWSIRAKDAAFATLVSDRFLRDYCEGCFSDLDLIDNLGPAMMLSDRLTFLGK  
YREFHRMYGEKRFADAASLLLSLMTSRIAPRSFWM TLLTDALPLLEQKQVIFSAEQTYEL  
MRCLEDLTSRRPVHGESDTEQLQDDDIETTKVEMLRSLARNLARAIIREGSLEGS

>sp|O95156|NXPH2\_HUMAN Neurexophilin-2 OS=Homo sapiens GN=NXPH2 PE=2 SV=2

MRLRPLPLVVVPGLLQLLFCDSKEVVHATEGLDWEDKDAPGTLVGNVHSRIISPLRLFV  
KQSPVPKPGPMAYADSMENFWDWLANITEIQEPLARTKRRPIVKTGKFKKMFGWGD FHSN

IKTVKLNLLITGKIVDHGNGTFSVYFRHNSTGLGNVSVSLVPPSKVVEFEVSPQSTLETKE  
ESKSFNCRIEYEKTDRAKKTALCNFDPSKICYQEQTQSHVSWLCSKPFKVICIYIAFYSV  
DYKLVQKVC PDYNYHSETPYLSSG

>sp|095157|NXPH3\_HUMAN Neurexophilin-3 OS=Homo sapiens GN=NXPH3 PE=1 SV=3

MLTRCCFVFLVQGSLYLVICGQDDGPPGSEDPERDDHEGQPRPRVPRKRGHISPKSRPM  
ANSTLLGLLAPPGEAWGILGQPPNRPNHSPPPSAKVKKIFGWGDFYSNIKTVALNLLVTG  
KIVDHGNGTFSVHFQHNATGGNISISLVPPSKAVEFHQEQQIFIEAKASKIFNCRMEWE  
KVERGRRTSLCTHDPAKICSRDHAQSSATWSCSQPFKVVVCVYIAFYSTDYRLVQKVC PDY  
NYHSDTPYYP SG

>sp|Q6NXP6|NXRD1\_HUMAN NADP-dependent oxidoreductase domain-containing protein 1 OS=Homo sapiens GN=NOXRED1 PE=2 SV=2

MDMLQDLESLQFEYGVPEEDRIWLYLQGRSRGLMIEACAHATFFCKLLYNLRASLNKNQS  
SRHLSIGSLNSATPEEFKVGIIIGGGHLGKQLAGTLLQLGPIAESLRISTR RPETLGELQ  
KLGIKCFYHNADLVSWADVIFLCCLP SQLPNICVEIYTSLEKASIVYSFVA AIPLPRLKL  
LLNHTNILRPQYQYDEDSVSVWGANKGVIAALQDPTILQATCPYSPAGGIILNIKWLEGV  
FYAALNICTARNMAHSQVLQLLSELF LSVHFEDCGKDTASCPKLQLTDFVSKAYGKNLSQ  
ERPFPWFDLTAVQLKETPFSQHLSSSPVLQDHLTHLYCASFGISLTKEQP VISTGFPSQ

>sp|Q9P2P1|NYNRI\_HUMAN Protein NYNRIN OS=Homo sapiens GN=NYNRIN PE=2 SV=3

MLLSGGDPPAQEFWMVQTKSKPRVQRQLQVQRIFRVKLNAFQSRPDTPYFWLQLEGPRE  
NMGKAKEYLKGLCSPELWKEVRYPPILHCAFLGAQGLFLDCLCWSTLAYLVP GPPGSLMV  
GGLTESFIMTQNWLEELVGRLRWGPAPLLTPRGIWEAEVTRAFGALVWIRGDQHAGDLLQ  
LPPAVQELLLSLVRDAAGKEDI IEWLSRFGISDSHSDPEVLICPPQQQKEAPAMVSVGES  
PGPFVDMGTLQNRGPENSKRSLSGATGSLITAQSTPQEAANQLVRVGSNNQDGMDSAQE  
EGTVQATSSQDSTNHTQALLKQRQVQKIEDKLLFQPPVSALGVCPPWKAWTPGPAFGPLW  
PGAIAATFWRINELHSLHLAWLLSQACFNFPFWQRPLGPIQLKLP GQNPLPLNLEWKQKE  
LAPLPSAESPAGRPDGGLGGEAALQNCPRPEISP KVTSLLVPGSSDVKDKVSSDL PQIG  
PPLTSTPQLQAGGEPGDQGSMLDFKGLEEGPAPVLP TGQGKPV AQGLTDQSVPGAQTV  
PETLKVPMAAAVPKAENPSRTQVPSAAPKLPTSRMMLAVHTEPAAPEVPLAPTKPTAQLM  
ATAQKTVVNQPV LVAQVEPTTPKTPQAQKMPVAKTSPAGPKTPKAQAGPAATVSKAPAAS  
KAPAAPKVPVTPRVSRAPKTPAAQKVPTDAGPTLDVARLLSEVQPTS RASVSLLKGQGQA  
GRQGPQSSGTLALSSKHQFQMEGLLGAWEGAPRQPPRHLQANSTVTSFQRYHEALNTPFE  
LNLSGEPGNQGLRRVVIDGSSVAMVHGLQHFFSCRGIAMAVQFFWNRGHREVTVFVPTWQ  
LKKNRRVRESHFLTKLHSLKMLSITPSQLENGKKITTYDYRFMVKLAETDGIIVTNEQI  
HILMNSSKKLMVKDRLLPFTFAGNLFMV PDDPLGRDGPTLDEFLKKPNRLD TDIGNFLKV  
WKTLPSSASVTELSDDADSGPLESLPNMEEVREEKEERQDEEQRQG GTQKAAEEDDL D  
SSLASVFRVECPSLSEEILRCLSLHDPDGALDIDLPGAASPYLGIPWDGKAPCQQVLA  
HLAQLTIPSNFTALSFFMGMDSHRDAIPDYEALVGPLHSLKQKPDWQWDQEHEEAFLA  
LKRALVSALCLMAPNSQLPFRLEVTVSHVALTAILHQEHSGRKHPIAYTSKPLLPDEESQ  
GPQSGGDSPIYAVAWALKHFSRCIGDTPVVLDLSYASRTTADPEVREGRRVSKAWLIRWSL  
LVQDKGKRALELALLQGLLGENRLTPAASMPRFFQVLP PFDLSTFVCIHMSGYCFYRE  
DEWCAGFGLYVLSPTSPVSLSFSCSPYPTYAHLAAVACGLERFGQSPLPVVFLTHCNW  
IFSLLWELLPLWRARGFLSSDGAPLPHPSLLSYIISLTSGLSSLPFIYRTSYRGS LFAVT  
VDTLAKQGAQGGGQWWSLPKDVPAPTVSPHAMGKRPNLLALQLSDSTLADIIARLQAGQK  
LSGSSPFSSAFNSLSLDKESGLLMFKGDKKPRVWVPTQLRRDLIFSVHDIPLGAHQ RPE

ETYKKLRLLGWWPGMQEHVKDYCRSCLFCIPRNLI GSELKVIESPWPLRSTAPWSNLQIE  
VVGPTI SEEGHKHVLIVADPNTRWVEAFPLKPYTHTAVAQVLLQHVFARWGVPRLEAA  
QGPQFARHVLVSCGLALGAQVASLSRDLQFPCLTSSGAYWEFKRALKEFIFLHGKKWAAS  
LPLLHLAFRASSTDATPFKVL TGGESRLTEPLWWEMSSANIEGLKMDVFLQLVGELLEL  
HWRVADKASEKAENRRFKRESQEKEWNVGDQVLLLSLPRNGSSAKWVGPFYIGDRLSLSL  
YRIWGFPTPEKLGCIYPSSLMKAFAKSGTPLSFKVLEQ

>sp|Q8NGE5|O10A7\_HUMAN Olfactory receptor 10A7 OS=Homo sapiens GN=OR10A7 PE=3 SV=1  
MICENHTRVTEFILLGFTNNPEMQVSLFIFFLAIYTVTLLGNFLIVTVTSVDLALQTPMY  
FFLQNLSSLLEVCFITLVMVPKMLVDLVSPRKIISFVGGTQMYFFFFFFGSSECFLLSMAY  
DRFVAICNPLHYSVIMNRSCLLWMAIGSWMSGVPVSMLQTAWMMALPFCGPNVDHFFCD  
GPPVLKLVTVDTTMYEMQALASTLLFIMFPFCLILVSYTRIIITILRMSSATGRQKAFST  
CSSHLIVVSLFYGTASLTYL RPKSNQSPESKKLVLSYTVITPMLNPIIYGLRNNEVKGA  
VKRTITQKVLQKLDVF

>sp|Q8NGE0|O10AD\_HUMAN Olfactory receptor 10AD1 OS=Homo sapiens GN=OR10AD1 PE=2 SV=1  
MLRNGSIVTEFILVGFAQSSTSTRALLFALFLALYSLTMAMNGLIIFITSWTDPKLNSPM  
YFFLGHL SLLDVCFITTTIPQMLIHLVVRDHIVSFVCCMTQMYFVFCVGAECILLAFMA  
YDRYVAICYPLNYVPIISQKVCVRLVGTAWFFGLINGIFLEYISFREPFRRDNHIESFFC  
EAPIVIGLSCGDPQFSLWAIFADAIVVILSPMVLTVTSYVHILATILSKASSSGRGKTFS  
TCASHLTVVIFLYTSAMFSYMNPHSTHGPDKDKPFSLLYTIITPMCNP IYSFRNKEIKE  
AMVRALGRTRLAQPSV

>sp|Q8NGC4|O10G3\_HUMAN Olfactory receptor 10G3 OS=Homo sapiens GN=OR10G3 PE=3 SV=1  
MERINSTLLTAFILTGIPYPLRLRTLFFVFFFLIYILTQLGNLLILITVWADPRLHARPM  
YIFLGVL SVIDMSSIIVPRLMMNFTLGVKPIPFGGCVAQLYFYHFLGSTQCFLYTLMA  
YDRYLAICQPLRYPVLM TAKLSALLVAGAWMAGSIHGALQAILTFRLPYCGPNQVDYFFC  
DIPAVLRLACADTTVNELVTFVDIGVVVASCFSLILLSYIQIIQAILRIHTADGRRRAFS  
TCGAHTVTVTVVYVPCAFIYLRPETNSPLDGAAALVPTAITPFLNPLIYTLRNQEVKLAL  
KRMLRSPRTPSEV

>sp|Q8NH81|O10G6\_HUMAN Olfactory receptor 10G6 OS=Homo sapiens GN=OR10G6 PE=3 SV=1  
MLEGVEHLLLLLLLLTDVNSKELQSGNQTSVSHFILVGLHHPQLGAPLFLAFLVIYLLTV  
SGNGLIILTVLDIRLHRPMCLFLCHLSFLDMTISCAIVPKMLAGFLLGSR IISFGGCVI  
QLFSFHFLGCTECFLYTL MAYDRFLAICKPLHYATIMTHRVCNSLALGTWLGGTIHS LFQ  
TSFVFRLPFCGPNRVDYIFCDIPAMRLACADTAINELVTFADIGFLALTCFMLILTSYG  
YIVAAILRIPSADGRRNAFSTCAAHLTVVIVVYVPCTFIYLRPCSQEPLDGVVAVFYTVI  
TPLLNSIIYTL CNKEMKAALQRLGGHKEVQPH

>sp|Q8NGN5|O10G8\_HUMAN Olfactory receptor 10G8 OS=Homo sapiens GN=OR10G8 PE=2 SV=1  
MSNASLLTAFILMGLPHAPALDAPLFGVFLVYVLTVLGNLLILLVIRVDSHLHTTMYF  
LTNLSFIDMWFS TVTPKLLMTLVFPSGRAISFHSCMAQLYFFHFLGGTECFLYRVMSCD  
RYLAISYPLRYTSMMTGRSCTLLATSTWLSGSLHSAVQAILTFHLPYCGPNWIQH YLCDA  
PPILKLACADTSAIETVIFVTVGIVASGCFVLIVLSYVSIVCSILRIRTSEGKHRAFQTC  
ASHCIVVLCFFGGLFIYLRPGSRKAVDGVVAVFYTVLTPLLN PVVYTLRNKEVKKALLK  
LKDKVAHSQSK

>sp|O60404|O10H3\_HUMAN Olfactory receptor 10H3 OS=Homo sapiens GN=OR10H3 PE=2 SV=1  
MPGQNYRTISEFILSGFSAFPQQLLPVLFLLYLLMFLFTLLGNLLIMATVWIERRLHTPM  
YLFLCALSISEILFTVAITPRMLADLLFTHRSITFVACAIQMFFSFMFGFTHSFLLMVMG

YDHVYTICHPLHYNMLSPRGCAHLVAWTWAGGSVMGMMVTMMVFHLTFCGSNVIHHFLC  
HVLSELLKLACGSKTSSVIMGVMLVCVTALIGCLFLIILSFVFIVAAILRIPSAEGRHKTF  
STCVSHLTVVVMHYFSASLIYLPKGLHSMYSDALMATTYTVFTPLSPIIFSLRNKELK  
NAINKNFCRRFCPLSS

>sp|P30954|O10J1\_HUMAN Olfactory receptor 10J1 OS=Homo sapiens GN=OR10J1 PE=2 SV=2  
MLLCFRFGNQSMKRENFTLITDFVFQGFSSFHEQQITLFGVFLALYILTLAGNIIIVTII  
RMDLHLHTPMYFFLSMLSTSETVYTLVILPRMLSSLVGMSQPISLAGCATQMFFFTFGI  
TNCFLLTAMGYDRYVAICNPLRYMVMNKRLRIQLVLGACSIGLIVAITQVTSVFRLPFC  
ARKVPHFCDIRPVMKLSCIDTTVNEILTIIISVLVLVPMGLVFISYVLIISTILKIAS  
VEGRKKAFATCASHLTVVIVHYSCASIAYLKPKSENTREHDQLISVTTYVITPLNPVY  
TLRNKEVKDALCRAVGKFS

>sp|Q6IF99|O10K2\_HUMAN Olfactory receptor 10K2 OS=Homo sapiens GN=OR10K2 PE=3 SV=1  
MERVNETVVREVIFLGFSSLARLQQLLFVIFLLLYLFTLTGNIIISTIVLDRALHIPMY  
FFLAILSCSEICYTFIIVPKMLVDLLSQKKTISFLGCAIQMFSFLFLGCSHSFLLAVMGY  
DRYIAICNPLRYSVLMGHGVCMLVAAACACGFTVAQIITSLVFHLPFYSSNLHHFFCD  
IAPVLKLASHHNHFSQIVIFMLCTLVLAIPLLLILVSYVHILSAILQFPSTLGRCKAFST  
CVSHLIIVTVHYGCASFYLRPQSNYSSQDALISVSYTIITPLFNPMIYSLRNKEFKSA  
LCKIVRRTISLL

>sp|Q8NGY1|O10Z1\_HUMAN Olfactory receptor 10Z1 OS=Homo sapiens GN=OR10Z1 PE=3 SV=1  
MGQTNVTSWRDFVFLGFSSGELQLLLFALFLSLYLVTLSNVFIIIAIRLDSHLHTPMY  
LFLSFLSFSETCYTLGIIPRMLSLAGGDQAISYVGCAQMFFSASWACTNCFLLAAMGF  
DRYVAICAPLHYASHMNPTLCAQLVITSFLTGYLFGGLMTLVIFHLSFCSSHEIQHFFCD  
TPPVLSLACGDTGPSELRIFILSLLVLLVSFFFITISYAYILAAILRIPSAEGQKKAFST  
CASHLTVVIIHYGCASFVYLRPKASYSLERDQLIAMTYTVVTPLNPVYSLRNRAIQTA  
LRNAFRGRLLGKG

>sp|Q8NGX0|O11L1\_HUMAN Olfactory receptor 11L1 OS=Homo sapiens GN=OR11L1 PE=3 SV=1  
MEPQNTSTVTNFQLLGFQNLLEWQALLFVIFLLIYCLTIIGNVVIITVVSQGLRLHSPMY  
MFLQHLSFLEVWYSTTVPLLLANLLSWGQAISFSACMAQLYFFVFLGATECFLLAFMAY  
DRYLAICSPLRYPFLMHRGLCARLVVSWCTGVSTGFLPSLMISRLDFCGRNQINHFFCD  
LPPLMQLSCSRVYITEVTIFILSIAVLCICFFLTLPYVFIVSSILRIPSTSGRRKTFST  
CGSHLAVVTLYYGTMISMYVCPSPHLLPEINKIISVFYTVVTPLNPVYSLRNKDFKEA  
VRKVMRRKCGILWSTSKRKFLY

>sp|Q8NGC7|O11H6\_HUMAN Olfactory receptor 11H6 OS=Homo sapiens GN=OR11H6 PE=3 SV=1  
MFFIIHSLVTSVFLTALGPQNRTHMFVTEFVLLGFHGQREMQSCFFSFILVLYLLTLLGN  
GAIVCAVKLDRRLHTPMYILLGNFAFLEIWIYSSTVPNMLVNILSEIKTISFSGCFLQFY  
FFFSLGTTECFFLSVMAYDRYLAICRPLHYPSIMTGKFCIILVCVCWVGFLCYPPIVL  
ISQLPFCGPNIIDHLVCDPGPLFALACISAPSTELICYTFNSMIIFGPFLSILGSYTLVI  
RAVLCIPSGAGRTKAFSTCGSHLMVVSIFYGTLMVMYVSPTSNGNPAGMQKIITLVYTAMT  
PFLNPLIYSLRNKDMKDALKRVLGLTVSQN

>sp|Q9UGF7|O12D3\_HUMAN Olfactory receptor 12D3 OS=Homo sapiens GN=OR12D3 PE=2 SV=1  
MENVTTMNEFLLLGLTGVELQPPFFGIFLIIYLINLIGNGSILVMVLEPQLHSPMYFF  
LGNLSCLDISYSSVTLPKLLVNLVCSRRAISFLGCITQLHFFHFLGSTEAILLAIMAFDR  
FVAICNPLRYTVIMNPQVCILLAAAALISFFYALMHSVMTAHLSCGSGQLNHHFFYDVK  
PLLELACSDTLLNQWLSIVTGSISMGAFFLTLLSCFYVIGFLLFKNRSCRILHKALSTC



ASHFMVCLFYGPVGFTYIRPASATSMIQDRIMAIMYSAVTPVLNPLIYTLRNKEVMMAL  
KKIFGRKLFKDWQQHH

>sp|Q8NGS6|O13C3\_HUMAN Olfactory receptor 13C3 OS=Homo sapiens GN=OR13C3 PE=2 SV=2

MIVQLICTVCFLAVNTFHRSSFDLKLADDMEINQTLVSEFLLGLSGYPKIEIVYFAL  
ILVMYLVLIGNGVLIASIFDSHFHTPMYFFLGNLSFLDICYTSSSVSTLVSLISKKR  
NISFSGCAVQMFFGFAMGSTECLLLGMMAFDRYVAICNPLRYPPIILSKVAYVLMASVSWL  
SGGINSVAVQTLLAMRLPFCGNNIINHFACEILAVLKLACADISLNIITMVISNMAFLVLP  
LMVIFFSYMFILYTIQMNSATGRRKAFSTCSAHLTVVIFFYGTIFFMYAKPKSQDLIGE  
EKLQALDKLISLFYGVVTPMLNPILYSLRNKDVKAADVYLLNKKPIH

>sp|Q8NH95|O13C6\_HUMAN Putative olfactory receptor 13C6 OS=Homo sapiens GN=OR13C6P PE=5  
SV=2

MVSANQTSVTEFILLGLSAHPKLEKTFVLLMYLVILLGNGVLILMTVSNSHLHMPM  
YFFLGNLSFLDICYTTSSVPLILDSFLTTPRKTISFSACAVQMFLSFAMGATECVLLSMMA  
FDRYVAICNPLRYPVVMASKAAYMPIRLPAPG

>sp|Q8NGS7|O13C8\_HUMAN Olfactory receptor 13C8 OS=Homo sapiens GN=OR13C8 PE=3 SV=1

MERTNDSTSTEFFLVGLSAHPKLQTVFFVLILWMYLMILLGNGVLISVIFDSHLHTPMY  
FFLGNLSFLDVCYTSSSVPLILASFLAVKKKVSFSGCMVQMFISFAMGATECMILGTMAL  
DRYVAICYPLRYPVIMSKGAYVAMAAGSWVTGLVDSVVQTAFAMQLPFCANNVIKHFVCE  
ILAILKLACADISINVISMTGSNLIVLVIPLLVISISYIFIVATILRIPSTEGKHKAFST  
CSAHLTVVIFFYGTIFFMYAKPESKASVDSGNEDIEALISLFYGVMTPLNPLIYSLRN  
KDVKAADVKNILCRKNFSDGK

>sp|Q8NGZ3|O13G1\_HUMAN Olfactory receptor 13G1 OS=Homo sapiens GN=OR13G1 PE=2 SV=1

MNHSVTEFIILGLTKKPELQGIIFLFLIVYLVAFLGNMLIIIAKIYNNLTHTPMYVFL  
LTLAVVDIICTTSIIPKMLGTMLTSENTISYAGCMSQLFLFTWSLGAEMVLFTTMAYDRY  
VAICFPLHYSTIMNHMCVALLSMVMAIAVTNSVWHTALIMRLTFCGPNTIDHFFCEIPP  
LLALSCSPVRINEVMVYVADITLAIGDFILTCISYGFIIIVAILRIRTVEGKRKAFSTCSS  
HLTVVTLYYSPVIYTYIRPASSYTFERDKVVAALYTLVTPTLNPVVSFQNRMQAGIRK  
VFAFLKH

>sp|Q8NHC5|O14A6\_HUMAN Olfactory receptor 14A16 OS=Homo sapiens GN=OR14A16 PE=3 SV=1

MANLTIVTEFILMGFSTNKNMCILHSILFLLIYLCALMGNVLIIMITLDHHLHTPVYFF  
LKNLSFLDLCLISVTAPKSIANSIHNNISIFLGCVSQVFLSSASAELLLTVMSFDR  
YTAICHPLHYDVIMDRSTCVQRATVSWLYGGLIIVMHTAGTFSLSYCGSNMVHQFFCDIP  
QLLAISCSENLIREIALILINVLDFFCFIVIIITYVHVSTVKKIPSTEGQSKAYSICL  
PHLLVVLFLSTGFIAYLKPASESPSILDAVISVFYTMPPFTNPPIIYSLRNKAIKVALGM  
LIKGLTKK

>sp|A6ND48|O14I1\_HUMAN Olfactory receptor 14I1 OS=Homo sapiens GN=OR14I1 PE=3 SV=1

MDNLTKVTEFLLMEFSGIWELQVLHAGLFLLIYLAFLVGNLLIIAVITLDQHLHTPMYFF  
LKNLSVLDLCYISVTPKSIIRNSLTRSSISYLGCVAVQVYFFSAFASAEFLTVMSYDR  
YVAICHPLQYRAVMTSGGCYQMAVTTWLSCFSYAAVHTGNMFREHVCRSSVIHQFFRDIP  
HVLALVSCVFFVEFLTALSSCLVLGCFILMMISYFQIFSTVLRIPSGQSRKAFSTCS  
PQLIVIMLFLTGLFAALGPIAKALSIQDLVIALTYTVLPFLNPPIIYSLRNKEIKTAMW  
RLFVKIYFLQK

>sp|Q8NHC7|O14CZ\_HUMAN Olfactory receptor 14C36 OS=Homo sapiens GN=OR14C36 PE=3 SV=1

MPNSTVMFEFLMRFSVWTLQILHSASFFMLYLVTLMGNILIVTVTCDSSSLHMPMYFF

LRNLSILDACYISVTVPTSCVNSLLDSTTISKAGCVAQVFLVVFFVYVELLFLTIMAHDR  
YVAVCQPLHYPVIVNSRICIQMTLASLLSGLVYAGMHTGSTFQLPFCRSNVIHQFFCDIP  
SLLKLSCSDTFSNEVMIVVSALGVGGCFIFIIRSYIHIFSTVLGFPGRADRTKAFSTCI  
PHILVSVFLSSCSSVYLRPPAIPAATQDLILSGFYSIMPPLFNPIIYSLRNKQIKVAIK  
KIMKRIFYSENV

>sp|Q8NGT7|O2A12\_HUMAN Olfactory receptor 2A12 OS=Homo sapiens GN=OR2A12 PE=3 SV=1  
MESNQTWITEVILLGFQVDPALELFLFGFLLFYSLTLMGNGIILGLIYLD SRLHTPMYV  
FLSHLAIVDMSYASSTVPKMLANLVMHKKVISFAPCILQTFLYLAFATECLILVMCYD  
RYVAICHPLQYTLIMNWRVCTVLASTCWIFSLLALVHITLILRLPFCGPQKINHFFCQI  
MSVFKLACADTRLNQVVLFAFSAFILVGPLCLVLVSYLHILVAILRIQSGEGRRKAFSTC  
SSHL CVVGLFFGSAIVMYMAPKSSHSQERRKILSLFYSLFNPIILNPLIYSLRNAEVKGAL  
KRVLWKQRSM

>sp|Q9H205|O2AG1\_HUMAN Olfactory receptor 2AG1 OS=Homo sapiens GN=OR2AG1 PE=1 SV=2  
MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLAITMEARLHMPMY  
LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLAFMAY  
DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPCRAQEIRHLLCE  
IPHLKVACADTSRYELMVYVMGVTFILPSLAAILASYTQILLTVLHMPSPNEGRKKALVT  
CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNII SVFYTIIVTPALNPLIYSLRNKEVMRA  
LRRVLGKYMLPAHSTL

>sp|A6NND4|O2AT4\_HUMAN Olfactory receptor 2AT4 OS=Homo sapiens GN=OR2AT4 PE=2 SV=1  
MDATACNESVDGSPVFYLLGIPSLPETFFLPVFFIFLLFYLLILMGNALILVAVVAEPSL  
HKPMYFFLINLSTLDILFTTTTPKMLSLFLLGDRFLSFSSCLLQMYLFQSFTCSEAFIL  
VVMAYDRYVAICHPLHYPVLMNPQTNATLAASAWLTALLPIP AVVRTSQMAYNSIAYIY  
HCFCDHLAVVQASCSDTTPQTLMGFCIAMVVSFLPLLLVLLSYVHILASVLRISSELEGRA  
KAFSTCSSHLLVVGTYYSIAIAYVAYRADLPLDFHIMGNVYAILTPILNPLIYTLRNR  
DVKAATKIMSQDPGCDRSI

>sp|Q8NH02|O2T29\_HUMAN Olfactory receptor 2T29 OS=Homo sapiens GN=OR2T29 PE=3 SV=2  
MANITRMANHTGRDLFILMGLFRQSKHPALLSVVIFVFLKALSGNAVLILLIHCDALHL  
SPMYFFISQLSLMDMAYISVTPKMLLDQVMGVNKSVAPECGMQMFLYTLAGSEFFLLA  
TMAYDRYVAICHPLRYPVLMNHRVCLFLASGCWFLGSVDGFMLTPITMSFPFCRSWEIHH  
FFCEVPAVTILSCSDTSLYETLMLYCCVLMMLIPVTIISSSYLLILLTVHRMNSAEGRKK  
AFATCSSHLTVVILFYGAAYTYMLPSSYHTPEKDMMVSVFYTILTPVLNPLIYSLRNKD  
VMGALKKMLTVRFVL

>sp|Q8NGX1|O2T34\_HUMAN Olfactory receptor 2T34 OS=Homo sapiens GN=OR2T34 PE=2 SV=1  
MCSGNQTSQNQTASTDFTLTGLFAESKHAALLYTVTFLLFLMALTGNALLILLIHSEPR  
LHTPMYFFISQLALMDLMLYLCVTPKMLVGQVTGDDTISPSGCGIQMFFHLTLAGAEVFL  
AAMAYDRYAAVCRPLHYPLLMNQVCQLLV SACWVLGMVDGLLLTPITMSFPFCQSRKIL  
SFFCETPALLKLSCSDVSLYKMLTYLCCILMLLTPIMVISSSYTLILHLIHRMNSAAGR  
KALATCSSHMIIVLLFGASFYTYMLRSSYHTAEQDMMVSAFYTIFT PVLNPLIYSLRNK  
DVTRALRSMMQSRMNQEK

>sp|Q6IF82|O4A47\_HUMAN Olfactory receptor 4A47 OS=Homo sapiens GN=OR4A47 PE=3 SV=2  
MEPRKNVTDVLLGFTQNPKEQVLFVMFLFYILTMVGNLLIVVTVTVSETLGSPMYFF  
LAGLSFIDIIYSSSISPRLISGLFFGNNSISFQSCMAQLFIEHIFGGSEVFLLLVMAYDC  
YVAICKPLHYLVIMRQWVCVLLVVSWSVGGFLHSVFQLSIIYGLPFCGPNVIDHFFCDMY

PLLKLVCTDTHAIGLLVVANGGLACTIVFLLLLISYGVILHSLKNLSQKGRQKALSTCSS  
HMTVVVFFVPCIFMYARPARTFPIDKSVSVFYTVITPMLNPLIYTLRNSEMTSAMKKLW  
RRDLISSST

>sp|095013|04F21\_HUMAN Olfactory receptor 4F21 OS=Homo sapiens GN=OR4F21 PE=3 SV=2  
MDGENHSVVSEFLFLGLTHSWEIQLLLLVFSSVLYVASITGNIFIVFSVTTDPHLHSPMY  
FLLASLSFIDLGACSVTSPKMIYDLFRKRKVISFGGCIAQIFFIHVIGGVEMVLLIAMAF  
DRYVALCKPLHYLTIMSPRMCLSFLAVAWTLGVSHSLFQLAFLVNLAFCGPNVLDSEFYCD  
LPRLRLACTDTYRLQFMVTVNSGFICVGTFFILLISYVFILFTVWKHSSGGSSKALSTL  
SAHSTVLLFFGPPMFVYTRPHPNQMDKFLAIFDAVLTPLNPVVYTFRNKEMKAAIKR  
VCKQLVIYKKIS

>sp|A6NGY5|051F1\_HUMAN Olfactory receptor 51F1 OS=Homo sapiens GN=OR51F1 PE=3 SV=1  
MLQNQDTMEILSNSTSKFPTFLTGTIPGLESAHVWISIPCCFYAIALSGNSVILFVIIT  
QQSLHEPMYYFLRLSATDLGLTVSSLSTTLGILWFEAREISLYSCIVQMFFLHGFTFME  
SGVLVATAFDRYVAICDPLRYTTILTNSRIIQMGLLMITRAIVLILPLLLLKPLYFCRM  
NALSHSYCHPDVIQLACSDIRANSICGLIDLITGTIDTPCIVLSYILIIHSLVRIASP  
EEWHKVFSTCVSHVGAVAFYIHMLSLSLVYRYGRSAPRVVHSMANVYLLPPVLNPII  
DSVKTKQIRKAMLSLLTK

>sp|Q9H342|051J1\_HUMAN Olfactory receptor 51J1 OS=Homo sapiens GN=OR51J1 PE=3 SV=2  
MKISNNSLGFLPTTFILVGIPGLESEHLWISVPFSLIYIIIFLNGIILHVIRTDIALHQ  
PMYFLAMLALAEVRVSASTLPTVLGIFLFGNTEISLEACLPDVLHPPFIHDGASCAAG  
HVFGLYSHLQPTELHSYPDTAQGLWHRSYRTEKHYAHSVAHSLMASALLWPQCPLTF  
LLSAPQSYLSCGNISVNNIYGFIVTSTFGLDSSLIVISYGLILHTVLGIATGEGRKKAL  
NTCGSHVCAVLAYVPMIGLSIVHRLGHRVSPLLQAMMANAYLFFPPVNPVIVYSIKTKE  
IHGAIVRMLLEKRRRV

>sp|Q8NGJ8|051S1\_HUMAN Olfactory receptor 51S1 OS=Homo sapiens GN=OR51S1 PE=2 SV=1  
MSTLPTQIAPNSSTSMAPTFLVGMPGLSGAPSWWTLPLIAVYLLSALGNGTILWIIALQ  
PALHRPMHFFLFLSVSDIGLVTALMPTLLGIALAGAHTVPASACLLQMVFIHVFSVMES  
SVLLAMSIDRALAICRPLHYPALLTNGVISKISLAISFRCLGLHLPLPFLAYMPYCLPQ  
VLTHSYCLHPDVARLACPEAWGAAYSLSFVVSAMGLDPLLFFSYGLIGKVLQGVESRED  
RWKAGQTCAAHLSAVLLFYIPMILLALINHPPELITQHTHTLLSYVHFLPPLINPILYS  
VKMKEIRKRLNRLQPRKVGAQ

>sp|Q9H2C5|052A5\_HUMAN Olfactory receptor 52A5 OS=Homo sapiens GN=OR52A5 PE=3 SV=1  
MPTFNQSVFMPSAFILIGIPGLESVQCWIGIPFSAMYLIGVIGNSLILVVIKYENSLHIP  
MYIFLAMLAAATDIALNTCILPKMLGIFWFHLPEISFDAQLFQMWLIHSFQAIESGILLAM  
ALDRYVAICIPLRHATIFSQQFLTHIGLGVTLRAAILIIPSLGLIKCCLKHYRTTVISHS  
YCEHMAIVKLATEDIRVNKIYGLFVAFAILGFDIIFITLSYVQIFITVFQLPQKEARFKA  
FNTCIAHICVFLQFYLLAFFSFFTHRFGSHIPPIHILLSNLYLLVPPFLNPVIVGVKTK  
QIRDHIVKVFFFKVT

>sp|Q8NGJ3|052E1\_HUMAN Olfactory receptor 52E1 OS=Homo sapiens GN=OR52E1 PE=3 SV=1  
MNTTLFHPYSFLLLGIPGLESMLWVGPPFAVFLTAVLGNITILFVIQTDSSLHHPMFY  
FLAILSSIDPGLSTSTIPKMLGTFWFTLREISFEGCLTQMFFIHLCTGMESAVLVAMAYD  
CYVAICDPLCYTLVLTKVVSVMALAIFLRPLVFVIPVLFILRLPFCGHQIIPHTYGEH  
MGIARLSCASIRVNIYGLCAISILVFDIIAIVISYVQILCAVLLSSHARLKAFSTCG  
SHVCVMLTFYMPAFFSFMTHRFGRNIPPHIILLANFYVIPPALNSVIYGVRTKQIRAQ

VLKMFFNK

>sp|Q8NGH7|052L1\_HUMAN Olfactory receptor 52L1 OS=Homo sapiens GN=OR52L1 PE=2 SV=4  
MTLVSFFSFLSKPLIMLLSNSSWRLSQPSFLLVGIPGLEESQHWIALPLGILYLLALVGN  
VTILFIIWMDPSLHQSMYLFSLMLAAIDLVLASSTAPKALAVLLVHAHEIGYIVCLIQMF  
FIHAFSSMESGLVAMALDCYVAICHPLHHSTILHPGVIGCIGMVVLRGLLLIPFPIL  
LGKLIFCQATIIGHAYCEHMAVVKLACSETTVNRAYGLTMALLVIGLDVLAIGVSYAHIL  
QAVLKVPGSEARLKAFSTCGSHICVILVFYVPGIFSFLTHRFGHHVPHHVHLLATWYLL  
MPPALNPLVYGVTQQIRQRLRVFTQKD

>sp|POC646|052Z1\_HUMAN Olfactory receptor 52Z1 OS=Homo sapiens GN=OR52Z1 PE=3 SV=1  
MGIPGLEGLHTWISIPFSFMYIVAVAGNIFLIFLIMTERSLEHPMYLFSLMLASADFLA  
TAAAPKVLAILWFHSMDISFGSCVSQMFFIHFIFVAESAILLAMAFDRYVAICYPLRYTI  
LTSSAVRKIGIAAVRSFFICCPFIFLVYRLTYCGRNIIPHSYCEHIARLACGNINVNII  
YGLTVALLSTGLDIVLIIISYTMILHSVFQISSWAARFKALSTCGSHICVIFMFYTPAFF  
SFLAHRFGGKTIPHHIHLVGSlyVLPVPMNLPIIYGVTQKQIKDRVILLFSPISVC

>sp|Q8NH54|056A3\_HUMAN Olfactory receptor 56A3 OS=Homo sapiens GN=OR56A3 PE=3 SV=2  
MTTHRNDTLSTEASDFLLNCFVRSPSWQHWLSLPLSLLFLLAVGANTLLMTIWLEASLH  
QPLYLLSLLSLLDIVLCLTVIPKVLTIWFDLRPISFPACFLQMYIMNCFLAMESCTFM  
VMAYDRYVAICHPLRPSIITDHFVVKAAFMILTRNVLMTLPILSAQLRYCGRNVIEN  
CICANMSVSRLSCDDVTINHLQYFAGGWTLGSDLILIFLSYTFILRAVRLKAEGAVAK  
ALSTCGSHFMLILFFSTILLVFLVTHVAKKKVSPDVPVLLNVLHHVIPAALNPIIYGVRT  
QEIKQGMQRLKKGC

>sp|POC7T3|056A5\_HUMAN Olfactory receptor 56A5 OS=Homo sapiens GN=OR56A5 PE=3 SV=1  
MTLPSNNSTSPVFEFFLICFSPSQSWQHWLSLPLSLLFLLAMGANATLLITIYLEASLHQ  
PLYLLSLLSLLDIVLCLTVIPKVLAIWFDLRSISFPACFLQVFIMNSFLTMESCTFMI  
MAYDRYVAICKPLQYSSIITDQFVARAAIFVVARNGLLTMPILSSRLRYCAGHIKNC  
ICTNVSVSKLSCDDITLNQSYQFVIGWTLLGSDLILIVLSYFFILKTVLRIKGE DMAKA  
LGTCGSHFILILFFTIVLLVLVITNLARKRIPDPVILLNHLHIPPALNPIVYGVRTK  
EIKQGIQNLLRRL

>sp|Q8NGI3|056B1\_HUMAN Olfactory receptor 56B1 OS=Homo sapiens GN=OR56B1 PE=2 SV=2  
MNHMSASLKISNSSKFQVSEFILLGFPGIHSWQHWLSLPLALLYLSALAANTLILIIIWQ  
NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFDAKVISLPECFAQIYAIHFFVGME  
SGILLCMAFDYVAICHPLRPSIVTSSLILKATLFMVLNGLFVTPVPVLAAQRDYCSK  
NEIEHCLCSNLGVTSACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNLNSA  
EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY  
ALQTKELRAAFQKVLFALTKEIRS

>sp|Q9NZP5|05AC2\_HUMAN Olfactory receptor 5AC2 OS=Homo sapiens GN=OR5AC2 PE=3 SV=2  
MDISEGNKTLVTEFVLTGLTDRPWLHVLFVFLVYVLITMVGNLGLIVLIWNPHLHMP  
MYLFLGGLAFSDACTSTSITPRMLVNFLDKTAMISLAECITQFYFFASSATTECFLLVMM  
AYDRYVAICNPLLYPVMSNKLSAQLLSISYVIGFLHPLVHVSLLLRLTFCRFNI IHYFY  
CEILQLFKISCNGPSINALMIFIGAFIQIPTLMTIIISYTRVLF DILKKKSEKGRSKAF  
STCGAHL LSVSLYGTILFMYVRPASGLAEDQDKVYSLFYTIIPLLNPFYSLRNKKVM  
HALRRVIRK

>sp|Q8NH89|05AK3\_HUMAN Putative olfactory receptor 5AK3 OS=Homo sapiens GN=OR5AK3P PE=5  
SV=1

MGRGNSTEVTEFHLLGFGVQHEFQHVLFIVLLLIYVTSIGNIGMILLIKTDSRLQTPMY  
FFPQHAFVDICYTSAITPKMLQSFTEENNLITFRGCVIQFLVYATFATSDCYLLAIMAM  
DCYVAICKPLRYPMIMSQTVYIQLVAGSYIIGSINASVHTGFTFSLSFCKSNKINHFFCD  
GLPILALSCSNIDINIILDVVFVGFDLMTFELVIIFSYIYIMVTILKMSSTAGRKKSFSST  
CASHLTAVTIFYGTLSYMYLQPQSNNQENMKVASIFYGTVIPMLNPLIYSLRNKEGK

>sp|A6NHG9|O5H14\_HUMAN Olfactory receptor 5H14 OS=Homo sapiens GN=OR5H14 PE=2 SV=1  
MEEENATLLTEFVLTGFLYQPQWKIPLFLAFLVIYLITIMGNLGLIAVIWKDPHLHIPMY  
LLLGNAFVDALLSSSVTLKMLINFLAKSKMISLSECKIQLFSFAISVTTECFLLATMAY  
DRYVAICKPLLYPAIMTNGLCIRLLILSYVGGLLHALIHEGFLFRLTFCNSNIIQHFYCD  
IIPLLKISYTDSSINFLMVFIAGSIQVFTIGTVLISYIFVLYTILKKKSVKGMRAKAFST  
CGAHLLSVSLYYGLAFMYMGSASPQADDQMMESLFYTVIVPLLNPMIYSLRNKQVIAS  
FTKMFKRNDV

>sp|A6NIJ9|O6C70\_HUMAN Olfactory receptor 6C70 OS=Homo sapiens GN=OR6C70 PE=3 SV=1  
MKNHTRQIEFILLGLTDNSQLQIVIFLFLLLNCVLSMIGNFTIIALILLDSQLKTPMYFF  
LRNFSFLEISFTTACIPRFLITIVTREKTISCNGCISQLFFYIFLGVTEFFLLAALSADR  
YVAICKPLRYMSIMSNKVCYQLVFSSWVTGFLIIFTPLILGLNLDFCASNIIDHFICDIS  
LILQLSCSDTHLLELAFLLAVMTLIVTLFLVILSYIIKTILKFPSAQKKKAFSTCS  
SHMIVVSITYGSCMFIYIKPSANERVALSKGVTVLNTSVAPLLNPFITYTLRNQQVKQAFK  
AVFRKIFSASDK

>sp|P04181|OAT\_HUMAN Ornithine aminotransferase, mitochondrial OS=Homo sapiens GN=OAT  
PE=1 SV=1  
MFSKLAHLQRFVLSRGVHSSVASATSVATKKTVQGPPTSDDIFEREYKYGAHNYHPLPV  
ALERGKGIYLDWDEGRKYDFDLSSYSANQGHCHPKIVNALKSQVDKLTLSRAFYNVNL  
GEYEEYITKLFNYHKVLPMTGVEAGETACKLARKWGYTVKGIQKYKAKIVFAAGNFWGR  
TLSAISSSTDPTSVDGFGPFMPGFDIIPYNDLPALERALQDPNVAAFMVEPIQGEAGVVV  
PDPGYLMGVRELCTRQVLFIADEIQTGLARTGRWLAVDYENVRPDIIVLLGKALSGGLYP  
VSAVLCDDDIMLTIKPGEHGSTYGGNPLGCRVAIAALEVLEENLAENADKLGIILRNEL  
MKLPSPDVVTAVRGKGLLNAIVIKETKDWDAWKVCLRLRDNGLLAKPTHGDIIRFAPPLVI  
KEDELRESIEIINKTILSF

>sp|Q9NWW6|NRK1\_HUMAN Nicotinamide riboside kinase 1 OS=Homo sapiens GN=NMRK1 PE=1 SV=1  
MKTFTIIGISGVTNSGKTTAKNLQKHLNCSVISQDDFFKPESEIETDKNGFLQYDVLEA  
LNMEKMMSAISCMESARHSVSTDQESAEIPIILIEGFLLFNYKPLDTIWNRSYFLTI  
PYECKRRRSTRVYQPPDSPGYFDGHVWPMYLYRQEMQDITWEVVYLDGKSEEDLFLQ  
VYEDLIQELAKQKCLQVTA

>sp|Q9NPD7|NRN1\_HUMAN Neuritin OS=Homo sapiens GN=NRN1 PE=2 SV=1  
MGLKLNTRYISLILAVQIAYLVQAVRAAGKCDVFKGFSDCLLKLGDSMANYPQGLDDKT  
NIKTVCTYWEDFHSCTVTALTDCQEGAKDMWDKLRKESKNLNIQGSLELCGSGNGAAGS  
LLPAFPVLLVSLAALATWLSF

>sp|P53370|NUDT6\_HUMAN Nucleoside diphosphate-linked moiety X motif 6 OS=Homo sapiens  
GN=NUDT6 PE=1 SV=2  
MRQPLSWGRWRAMLARTYGPGPSAGYRWASGAQGYVRNPPVGACDLQGELDRFGGISVRL  
ARLDALDRLDAAAFQKGLQAAVQQRSEGRATVWLHIPILQSRFIAPAASLGFCFHHAES  
DSSTLTWLREGPSRLPGYASHQVGVAGAVFDESTRKILVVQDRNKLKNMWFPGGLSEP  
EEDIGDTAVREVFEETGIKSEFRSVLSIRQQHTNPAGFGKSDMYIIICRLKPYSFTINFCQ

EECLRCEWMDLNDLAKTENTTPITSRVARLLLYGYREGFDKIDLTVEELPAVYTGLFYKL  
YHKELPENYKTMKGID

>sp|Q149M9|NWD1\_HUMAN NACT domain- and WD repeat-containing protein 1 OS=Homo sapiens  
GN=NWD1 PE=1 SV=3

MQRGKPCRALPTLKCQTFQCRHGLMFEVVDLRWGIRNIEATDHLTTELCLEEVDRCWKTS  
IGPAFVALIGDQYGPCLIQSRIDEKEWEVLDRHDLTARPSDLELVARYFQRDENAFPPITYV  
LQAPGTGEACEPEEATLTSVLRSGAQEARRLGLITQEQWQHYHRSVIEWEIERSLSSSED  
REQGATVFLREIQDLHKHILEDALRMVDRLADGCLDADAQNLLSSLKSHITDMHPGVLK  
THRLPWSRDLVNPKNKTHACYLKELGEQFVVRANHQVLTRLRELDTAGQELAWLYQEIRH  
HLWQSSEVIQTFQGRQELLARLGQQLRHDDSKQHTPLVLFGPPGIGKTALMCKLAEQMPR  
LLGHKTVTVLRLLGTSQMSSDARGLLKSICFQVCLAYGLPLPPAQVLDATRVVQFFHTL  
LHTVSCRNFESLVLLLDAMDDLDVSRHARRVPWLPLNCPPRVHLILSACSGALGVLDTLQ  
RVLLDPEAYWEVKPLSGNQGGQMIQLLAAARRTLSPVHTDLLWASLPECGNPGRRLAF  
EEARKWASFTVPVPLATTAEETHQLCTRLEQTHGQLLAHVLYIVSSRHGLSEAEKLD  
VLSLDEVLQDVYRDWTPPSKELLRFPLLWVRLRRDLGYLARRPVDGFTLLAIAHRQL  
VEVVRERYLSGSEAKRHGVLADFFSGTWSQGTKKLITLPLVGKPLNDRKVAPQPLWFS  
HTVANLRKLKELPYHLLHSGRLEELKQEVLGSMWSISCRGISGGIEDLLDDFDLCAPHL  
SPEVGLVREALQLCRPAVELRGMERSLLYTELLARLHFFATSHPALVGQLCQQAQSWFQL  
CAHPVLVPLGGFLQPPGGPLRATLSGCHKGITAMAWGVEEKLLVIGTQDGI MAVWDMEEQ  
HVIHMLTGHTGEVRCVKIFAKGTLANASKDYTLHLWNLLSGQEKFTIWDGGSKNPAEPQ  
IWNLVHDEAHKVVSASGSKINAWNLETAEPVFHILGDASDPWCMASQATLLTVSR  
DGVVSLWSSATGKLQKGQHMSSIKEETPTCAVSVQKQKLVTFGSNGSISLVSSKGDRL  
EKLPAVRFVLVSEDESLLAAGFGRSVRIFLADSRGFRFMAMDLEHEDMVETAVFGTEN  
NLIITGSLDALIQVWSLSEQGTLLDILEGVGAPVSLARGGALVASASPQSSSFKVDLS  
DAHRSRVPAPFLDRTGLTAVSHNGSYVYFPKIGDKNKVTIWDLAEGEEQDSLDTSSERC  
LEVAEQRKLLFTGLVSGVVLVPLNSRQDVICIPPEARKAINCMSLSKCEDRLAIAYDN  
IVLVLDITSGDPCPIDGPRYTFYTLQPETLSSVAILTDIRVVYSMTNGDLFLYECATSK  
AFPLETHRSRVACVEVSHKEQLVVSSEDALLCLWDLQARKWKFEMSYTSSYCRGVQCAC  
FSKDDKYVYVGLKDRSILVWSVLDGTLTVQFVHAVVNRIIPTTSGFIAPTHGYLIREN  
FQCLSAKASPQDPLKNFKKAMVMVKSQRQREELVAAAGAPQDLESESAQNETKSNKCSQV  
CLIV

>sp|Q96CM4|NXNL1\_HUMAN Nucleoredoxin-like protein 1 OS=Homo sapiens GN=NXNL1 PE=2 SV=1

MASLFSGRILIRNNSDQDELDTAEVSRRLLENRLVLLFFGAGACPCQCAFVPILKDFVVR  
LTDEFYVLRAAQLALVYVSQDSTEEQQDLFLKDMPKKWFLFPFEDDLRRDLGRQFSVERL  
PAVVVLKPDGDVLRDGADEIQLRGTAFCANWQEAEEVLDRNFQLPEDLEDQEPRSLTEC  
LRRHKYRVEKAARGGRDPGGGGGEEGGAGGLF

>sp|Q969Y0|NXPE3\_HUMAN NXPE family member 3 OS=Homo sapiens GN=NXPE3 PE=2 SV=1

MWTNFFKLRLFCCLLAVLMVVVLVINVTQVEYLDHETVSATFIDSSGQFVSSQVTGISRN  
PYCYDQQLTSSQERMEEDSLLAALHRQVPDVGVPVFKSTDPSSSYFVILNSAFAFFKVG  
SQLEVLVHVQDFQRKPKKYGGDYLAQRIHSLKLQAGAVGRVVDYQNGFYKVFFTLWPVK  
VKVSVSLVHPSEGIRVLQRLQEDKPDRVYFKSLFRSGRISETTECNVCLPGNLPLCNFTD  
LYTGEPWFCFKPKKLPCSSRITHFKGGYLGKLLTAAESAFFQSGVNIKMPVNSSGPDWVT  
VIPRIKETNSLELSQSGSTFSPGYKYDQWRPRKFKMRQFNDPDNITECLQRKVHVLFG  
DSTIRQWFEYLTTFVPDLVEFNLGSPKNVGPFLAVDQKHNIILKYRCHGPPIRFTTVFSN

ELHYVANELNGIVGGKNTVVAIAVWSHFSTFPLEVYIRRLRNIRRAVVRLLDRSPKTVVV  
IRTANAQELGPEVSLFNSDWYNFQLDTILRRMFSGVGVYLVDAWEMTLAHYLPKHLHPDE  
VIVKNQLDMFLSFVCPLET

>sp|P58417|NXPH1\_HUMAN Neurexophilin-1 OS=Homo sapiens GN=NXPH1 PE=2 SV=1

MQAACWYVLFLLQPTVYLVTCANLTNGGKSELLKSGSSKSTLKHIWTESSKDLSISRLLS  
QTFRGKENDTDLDLRYDTPEPYSEQDLWDWLRNSTDLQEPRPRAKRRPIVKTGKFKKMFG  
WGDHFSNIKTVKLNLLITGKIVDHGNGTFSVYFRHNSTGQGNVSVSLVPPTKIVEFDLAQ  
QTVIDAKDSKSFNCRIEYKVDKATKNTLCNYDPSKTCYQEQTSHSVWLCSPKPKVICI  
YISFYSTDYKLVQKVC PDYNYHSDTPYFPGS

>sp|Q6ZVC0|NYAP1\_HUMAN Neuronal tyrosine-phosphorylated phosphoinositide-3-kinase  
adapter 1 OS=Homo sapiens GN=NYAP1 PE=2 SV=1

MNLLYRKTKLEWRQHKEEEAKRSSSKEVAPAGSAGPAAGQGPGVRVRDIASLRRSLRMGF  
MTMPASQEHTPHPCRSAMAPRSLSCHSVGSMDSVGGPGGASGGLTEDSSTRPPAKPRR  
HPSTKLSMVGPGSGAETPPSKKAGSQKPTPEGRESSRKVPVPPKPRRSPNTQLSVSFDESC  
PPGPSRPGNLLPLQLRTRGSRVAGDPDVGAQEPPVYIEMVGDVFRGGGRSGGLAGPPLG  
GGGPTPPAGADSDSESEAIYEEMKYPLPEEAGEGRANGPPPLTATSPPPQPHALPPHAH  
RRPASALPSRRDGTPTKTPCEIPPPFPNLLQHRPPLAAPPQAKSASRTPGDGVSRLPVL  
CHSKEPAGSTPAPQVPARERETPPPPPPPAANLLLLGPSGRARSHSTPLPPQSGGQPRG  
ERELPNSHSMICPKAAGAPAAPPAPAALLPGPPKDKAVSYTMVYSVAVKVTTHSVLPAGPP  
LGAGEPKTEKEISVLHGMLCTSSRPPVPGKTS PHGGAMGAAAGVLHHRGCLASPHSLPDP  
TVGPLTPLWTYPATAAGLKRPPAYESLKAGGVNLKCGVGAPSPMVKIQLQEQTGGAF  
ASISCAHVIASAGTPEEEEEVGAAFTGAGWALQRKVL YGGRKAKELDKVEDGARAWNGS  
AEGPGKVEREDRPGTSGIPVRSQGAEGLLARIHHGDRGGSRTALPIPCQTFPACHRNGD  
FTGGYRLGRSASTSGVRQVVLHTPRPCSQPRDALSQPHPALPLPLPLPPQPARERD GKLL  
EVIERKRCVCKEIKARHRPDRGLCKQESMPILPSWRRGPEPRKSGTPPCRRQHTVLWDTA  
I

>sp|Q9GZU5|NYX\_HUMAN Nyctalopin OS=Homo sapiens GN=NYX PE=1 SV=1

MKGRGMLVLLHAVVLGLPSAWAVGACARACPAACACSTVERGCSVRCDRAGLLRVP AEL  
PCEAVSIDLDRNGLRFLGERAFGTLP SLRRLSLRHNNLSFITPGAFKGLPRLAELRLAHN  
GDLRYLHARTFAALSRLRRLDLAACRLFSVPERLLAELPALRELA AFDNLFRRVPGALRG  
LANLTHAHLERGRIEAVASSSLQGLRRLRSLSLQANRVRAVHAGAFGDCGVLEHLLNDN  
LLAELPADAFRGLRRLRTLNLGGNALDRVARAWFADLAELELLYLDRNSIAFVEEGAFQN  
LSGLLALHLNGNRLTVLAWVAFQPGFFLGRFLFRNPWCCDCRLEWLRDWMEGSGRVTDV  
PCASPGSVAGLDLSQVTFGRSSDGLCVDPEELNLTSSPGPSPEPAATTVS RFSSLSKL  
LAPRPVEEAANTTGGLANASLSDSLSSRGVGGAGRPWFLLASCLLPSVAQHVV FGLQM  
D

>sp|P58181|O10A3\_HUMAN Olfactory receptor 10A3 OS=Homo sapiens GN=OR10A3 PE=2 SV=1

MKRQNSCVVEFILLGFSNFPELQVQLFGVFLVIYVVTLMGNAIITVIISLNQSLHVPMY  
LFLNLSVVEVSFAVITPEMLVVLSTEKT MISFVGCFQMYFILLFGGTECFLLGAMAY  
DRFAAICHPLNYPVIMNRGVFMKLVIFSWISGIMVATVQT TWVFSFPFCGPNEINHLFCE  
TPPVLELVCADTFLFEIYAFTGTILIVMPFLLILLSYIRVLF AILKMPSTTGRQKAFST  
CASHLTSVTLFYGTANMTYLQPKSGYSPETKKLISLAYTLLTPLLNPLIYSLRNSEMKRT  
LIKLRWKVILHTF

>sp|Q8NGN7|O10D4\_HUMAN Putative olfactory receptor 10D4 OS=Homo sapiens GN=OR10D4P PE=5 SV=1

MRNHTMVTEFILLGIPETEGLETALLFLFSSFYLCITLLGNVLILTAIISSTRLHTPMYFF  
LGNLISIFDLGFSSTTVPKMLFYLSGNSHAI SYAGCVSQLFFYHFLGCTECFLYTVMACDR  
FVAICFPLRYTVIMNHRVCFMLATGTWMIGCVHAMILTPLTFQLPYCGPNKVGYYFCDIP  
AVLPLACKDTSLAQRVGFTNVGLLSLICFFLILVSYTCIGISISKIRSAEGRQRAFSTCS  
AHLTAILCAYGPVIVIYLQPNPSALLGSIIQILNNLVTPMLNPLIYSLRNKDVKSDQP

>sp|Q96KK4|O10C1\_HUMAN Olfactory receptor 10C1 OS=Homo sapiens GN=OR10C1 PE=2 SV=3

MSANTSMVTEFLLLGFSHLADLQGLLFSVFLTIYLLTVAGNFLIVVLVSTDAALQSPMYF  
FLRTL SALEIGYTSVTVPLLLHLLTGRRHISRSGCALQMFFFLFFGATECCLLAAMAYD  
RYAAICEPLRYPLLLSHRVCLQLAGSAWACGVLVGLGHTPFIFSLPFCGPNTIPQFFCEI  
QPVLQLVCGDTSNELQIILATALLILCPFGLILGSYGRILVTIFRIPSVAGRRAKAFSTC  
SSHLIMVSLFYGTALFIYIRPKASYDPATDPLVSLFYAVVTPILNPIIYSLRNTEVKAAL  
KRTIQKTVPMEI

>sp|POC629|O10J4\_HUMAN Olfactory receptor 10J4 OS=Homo sapiens GN=OR10J4 PE=3 SV=1

MPRPNFMAVTEFTFEGFSIFEWHHRLILFVIFLVLYVLTASNAILIVIRLNHQLHTPM  
YFFLSVLSISETYYTVAINPQMLSGLLSPQQTISIPGCAAQLFFYLTFGVNCFLLTAMG  
YDHYVAICNPLQYSVIMGKKACIQLVSGSWNIGLSTAIQVSSVFSLPFCANLISHFFC  
DIRPIMKLACADTTIKEIITLLISLCVLVLPMLIFISYVLIVTTILKIASAEGRRKAFA  
TCASHLTVVIVHYGRTSFIYLPKPSQNSLQDRLISVTYTVITPLNPVVYSLRNKEVKDA  
LLRALGRKPLS

>sp|Q8NGQ4|O10Q1\_HUMAN Olfactory receptor 10Q1 OS=Homo sapiens GN=OR10Q1 PE=3 SV=1

MPVGKLVFNQSEPTFVFRAFTTATEFQVLLFLLFLLLYLMILCGNTAIWVVCTHSTLR  
TPMYFFLSNLSFLELCYTTVVVPLMLSNILGAQKPISLAGCGAQMFFVTLGSTDCFLLA  
IMAYDRYVAICHPLHYTLIMTRELCTQMLGGALGLALFPSLQLTALIFTLPFCGHHQEIN  
HFLCDVPPVRLACADIRVHQA VLYVVSILVLTIPFLLICVSYVFITCAILSIRSAEGRR  
RAFSTCSFHLTVVLLQYGCCSLVYLRPRSSTSEDEDSQIALVYTFVTPLNPLLYSLRNK  
DVKGALRSAIIRKAASDAN

>sp|Q8NGI7|O10V1\_HUMAN Olfactory receptor 10V1 OS=Homo sapiens GN=OR10V1 PE=3 SV=3

MEGINKTAKMQFFFRPFSPDPEVQMLIFVVFLMMYLTSLGGNATIAIVIQINHSLHTPMY  
FFLANLAVLEIFYTSSITPLALANLLSMGKTPVSITGCGTQMFFVFLGGADCVLVMA  
YDQFIAICHPLRYRLIMSWSLCVELLVGLVGLLPLTLIFHLPFCHNDEIYHFYC  
DMPAVMRLACADTRVHKALYIISFIVLSIPLSLISISYVFIVVAILRIRSAEGRQQAYS  
TCSSHILVVLLQYGCTSFYILSPSSSYSEMGRVSVAYTFITPILNPLIYSLRNKELKD  
ALRKALRK

>sp|Q9GZK7|O11A1\_HUMAN Olfactory receptor 11A1 OS=Homo sapiens GN=OR11A1 PE=2 SV=1

MEIVSTGNETITEFVLLGFYDIPELHFLFFIVFTAVYVFIIIGNMLIIVAVVSSQRLHKP  
MYIFLANLSFLDILYTSAVMPKMLEGFLQEATISVAGCLLQFFIFGSLATAECLLLAVMA  
YDRYLAICYPLHYPLLMGPRRYMGLVVTTWLSGFVVDGLVVALVAQLRFCGPNHIDQFYC  
DFMLFVGLACSDPRVAQVTTILSVFCLTIPFGLILTSYARIVVAVLRVPAGASRRRAFS  
TCSSHLAVVTTFYGTLMIFYVAPSAVHSQLLSKVFSLLYTVVTPLFNPVIYTMRNKEVHQ  
ALRKILCIKQTETLD

>sp|Q8NGR1|O13A1\_HUMAN Olfactory receptor 13A1 OS=Homo sapiens GN=OR13A1 PE=2 SV=2

MKLWMESHLIVPETRPSPRMMSNQLVTEFILQGFSEHPEYRVFLFSCFLFLYSGALTGN



VLITLAIITFNPGLHAPMYFFLLNLATMDIICTSSIMPKALASLVSEESSISYGGCMAQLY  
FLTWAASSELLLLTVMAYDRYAAICHPLHYSSMMSKVFCGLATAVWLLCAVNTAIHTGL  
MLRLDFCGPNVIIHFFCEVPPLLLSCSSTYVNGVMIVLADAFYGINFLMTIASYGFIV  
SSILKVKTAWGRQKAFSTCSSHLTVVCMYYTAVFYAYISPVSGYSAGKSKLAGLLYTVLS  
PTLNPLIYTLRNKEVKAALRKLPFFRN

>sp|Q8NGS8|O13C5\_HUMAN Olfactory receptor 13C5 OS=Homo sapiens GN=OR13C5 PE=2 SV=1  
MEWENHTILVEFFLKGLSGHPRELLFFVLIFIMYVVILLGNGTLILISILDPHLHTPMY  
FFLGNSFLDICYTTTSIPSTLVSFLSERKTISLSCAVQMFLSLAMGTTECVLLGVMAF  
DRYVAICNPLRYPPIIMSKDAYVPMAGSWIIGAVNSAVQTVFVVQLPFCRNNIINHFTCE  
ILAVMKLACADISGNEFILLVTTTLFLLTPLLIIIVSYTLIILSIFKISSSEGRSKPSST  
CSARLTVVITFCGTIFLMMKPKSQETLNSDDL DATDKLIFFYRVMTPMMPNLIYSLRN  
KDVKEAVKHLLRRKNFNK

>sp|Q8NGT0|O13C9\_HUMAN Olfactory receptor 13C9 OS=Homo sapiens GN=OR13C9 PE=3 SV=1  
MEWENQTILVEFFLKGHVHPRELLFFVLIFIMYVVILLGNGTLILISILDPHLHTPMY  
FFLGNSFLDICYTTTSIPSTLVSFLSERKTISFSGCAVQMFLGLAMGTTECVLLGMMAF  
DRYVAICNPLRYPPIIMSKNAYVPMAGSWFAGIVNSAVQTTFVVQLPFCRKNVINHFSCE  
ILAVMKLACADISGNEFLMLVATILFTLMPLLLIVISYSLIISILKHSSEGRSKAFST  
CSAHLTVVIFIFYGTILFMYMKPKSKETLNSDDL DATDKIISMFYGMTPMMPNLIYSLRN  
KDVKEAVKHLPNRRFFSK

>sp|Q8NHC6|O14L1\_HUMAN Putative olfactory receptor 14L1 OS=Homo sapiens GN=OR14L1P PE=5  
SV=1  
MSPDTFLKGFAEFFLMGFSNSWDI QIVHAALFFLVYLA AVIGNLLIIILTTLDVHLQTPM  
YFFLRNLSFLDFCYISVTIPKSI VSSLTHDTSISFFGCALQAFFFM DLATTEVAILTVMS  
YDRYMAICRPLHYEVIINQGVCLRMAMSWLSGVICGMHVIATFSLPFCGRNRIRQFFC  
NIPQLLSLLDPKVITIEIGVMVFGTSLV IISFVVITLSYMYIFSVMRIPSKEGRSKTFS  
TCIPHLVVVTLFMISGSIA YVKPISNSPPVLDVFLSAFYTVVPPTLNPVIYSLRN RDMKA  
ALRRQCGP

>sp|Q8NGZ0|O2AJ1\_HUMAN Olfactory receptor 2AJ1 OS=Homo sapiens GN=OR2AJ1 PE=3 SV=1  
MGHQNHFTSSDFILLGLFSSSPTSVVFFLVLFVIFIMSVTENTLMILLIRSDSRLHTPMY  
FLLSHLSLMDILHVSNI VPKMVTNFLSGSRTISFAGCGFQVFLSLTLGGECLLLAAMSC  
DRYVAICHPLRYPILMKEYASALMAGGSWLIGVFNSTVHTAYALQFPFCGSRAIDHFFCE  
VPAMLKLSCADTTRYERGVCVSAVIFLLIPFSLISASYGQIILTVLQMSSEARKKSFST  
CSFHMIVVTMYGPFIFTYMRPKSYHTPGQDKFLAIFYTILPTLNPFIYSFRNKDVLAV  
MKNMLKSNFLHKKMNRKIPECVFCLFLC

>sp|Q8NH70|O4A16\_HUMAN Olfactory receptor 4A16 OS=Homo sapiens GN=OR4A16 PE=3 SV=1  
MRPSSNVTEFVLLGLTQDPDVKKTLFVMFLLIYIVTMVGNLLIWVTTIGSPSLGSLMYFF  
LAYLSLMDAIYSTAMSPKLMIDLCDKIAISLSACMGQLFIEHLLGGAEVFLVVMAYDR  
YVAISKPLHYLNIMNRLVCILLVVAMIGGFVHSV VQIVFLYSLPICGPNVIDHSVCDMY  
PLLELLCLDITYFIGLTVVANGGIICMVIFTFLLISCGVILNFKTYSQEERHKALPTCIS  
HIIVVALVFVPCIFMYVRPVS NF PFDKLMTVFYSIITLMLNPLIYSLRQSEMKNAMKNLW  
CEKLSIVRKRVSPTLNIFIPSSKATNRR

>sp|A6NHA9|O4C46\_HUMAN Olfactory receptor 4C46 OS=Homo sapiens GN=OR4C46 PE=3 SV=1  
MENRNNMTEFVLLGLTENPKMQKIIFVVFFVIYIITVVG YVLIVVTITASPSLGSPMYLS  
LAYLSFIDACYSSVNTPNLITHSLYGK KAILFNGCMTQVFGEHFFGGAEGILLTVMAYDH

YVAICKPLHYMTIMNQCVCALLMGVVMGGFLHATIQLFIFQLPFCGPNVIDHFMCDLN  
PLNLACTDTHMLELFIAANS GFICLLNFALLVSYVVILCSLRTHSLEARHKALSTCVS  
HITVVILFFVPCIFVYMRPAATLPIDKAVAFYTMITPMLNPLIYTLKNAQMKNAIRKLC  
SRKDISGDK

>sp|Q8NH64|051A7\_HUMAN Olfactory receptor 51A7 OS=Homo sapiens GN=OR51A7 PE=2 SV=1  
MSVLNNSEVKLFLLLIGIPGLEHAHIWFSIPICLMYLLAIMGNCTILFIKTEPSLHEPMY  
YFLAMLAVSDMGLSLSSLPTMLRVFLFNAMGISPNACFAQEFFIHGFTVMESSVLLIMSL  
DRFLAIHNPLRYSSILTSNRVAKMGLILAIRSILLVIPFPFTLRRLKYCQKNLLSHSYCL  
HQDTMKLACSDNKTNIYGF FIALCTMLDLALIVLSYVLILKTILSIASLAERLKALNTC  
VSHICAVLTFYVPIITLAAMHHFAKHKSPLVVILIADMFLVPPLMNP IYVCVKTRQIWE  
KILGKLLNVCGR

>sp|Q9H339|051B5\_HUMAN Olfactory receptor 51B5 OS=Homo sapiens GN=OR51B5 PE=2 SV=2  
MSSSGSSHPFLTGTGPGLEEAAHWSVFFLFMYISILFGNGTLLLLIKEDHNLHEPMYFF  
LAMLATDLGLALTMTPTVLGVLWDHREIGSAACFSQAYFIHLSFLESGILLAMAYDR  
FIAICNPLRYTSVLNTRVVKIGLGVLMRGFVSVPPIRPLYFFLYCHSHVLSHAFCLHQ  
DVIKLACADTTFNRLYPVLVVFIFVLDYLIIFISYVLILKTVLSIASREERAKALITCV  
SHICCVLVFYVTVIGLSLIHRFGKQVPHIVHLIMSYAYFLFPPLMNPITYSVKTKQIQNA  
ILHLFTTHRIGT

>sp|Q8NGF3|051D1\_HUMAN Olfactory receptor 51D1 OS=Homo sapiens GN=OR51D1 PE=2 SV=1  
MQKPQLLVPIIATSNGNLVHAAAYFLLVGIPGLGPTIHFWLAFPLCFMYALATLGNLTIVL  
IIRVERRLHEPMYFLAMLSTIDLVLSSITMPKMASFLMGIQEIEFNICLAQMFLIHAL  
SAVESAVLLAMAFDRFVAICHPLRHASVLTGCTVAKIGLSALTRGFVFFPLPFILKWLS  
YCQHTVTHTSFCLHQDIMKLSCTDTRVNVVYGLFIILSVMGVDSLFIGFSYILILWAVLE  
LSSRRAALKAFNTCISHLCAVLVFYVPLIGLSVVHRLGGPTSLLHVMANTYLLLPPVVN  
PLVYGAKTKEICSRVLCMFSQGGK

>sp|Q9H255|051E2\_HUMAN Olfactory receptor 51E2 OS=Homo sapiens GN=OR51E2 PE=2 SV=1  
MSSCNFTHATFVLIGIPGLEKAHFVWGFPLLSMYVVAMFGNCIVVFIVRTERSLHAPMYL  
FLCMLAAIDLALSTTMPKILALFWFDSREISFEACLQMF FIIHALSAIESTILLAMAFD  
RYVAICHPLRHAAVLNNTVTAQIGIVAVVRGSLFFFPLPLLIKRLAFCHSNVLSHSYCVH  
QDVMKLAYADTLPNVYGLTAILVMGVDVMFISLSYFLIIRTVLQLPSKSERAKAFGTC  
VSHIGVVLA FYVPLIGLSVVHFRGNSLHP IVRVVMGDIYLLLPVINPIIYGAKTKQIRT  
RVLAMFKISCDKDLQAVGGK

>sp|Q8NGK0|051G2\_HUMAN Olfactory receptor 51G2 OS=Homo sapiens GN=OR51G2 PE=2 SV=1  
MTLGS LGNSSSVSATFLLSGIPGLERMHIWISIPLCFMYLV SIPGNCTILFIKTERSL  
HEPMYLFLSMLALIDLGLSLCTLPTVLGIFWVGAREISHDACFAQLFFIHCFSFLESSVL  
LSMAFDRFVAICHPLHYVSILNTVIGRIGLVSLGRSVALIFPLPFMLKRFPYCGSPVLS  
HSYCLHQEVMKLACADMKANSIYGMFVIVSTVGIDSLLILFSYALILRTVLSIASRAERF  
KALNTCVSHICAVLLFYTPMIGLSVIHRFGKQAPHLVQVVMGFMYLLFPPVMNP IYYSVK  
TKQIRDRVTHAFCY

>sp|Q8NGK5|052M1\_HUMAN Olfactory receptor 52M1 OS=Homo sapiens GN=OR52M1 PE=3 SV=1  
MLTFHNVCSPSSFALTGIPGLES LHVWLSIPFGSMYLVAVVGNVTILAVVKIERSLHQP  
MYFFLCMLAAIDLVLSTSTIPKLLGIFWFGACDIGLDACLGQMFLIHC FATVESGIFLAM  
AFDRYVAICNPLRHSMLTYTVVGRGLVSLLRGVLYIGPLPLMIRLRLPLYKTHVISHS  
YCEHMAVVALTCGDSRVNNVYGLSIGFLVLILDSVAIAASYVMIFRAVMGLATPEARLKT

LGTCASHLCAILIFYVPIAVSSLIHRFGQCVPPPVHTLLANFYLLIPPILNPIVYAVRTK  
QIRESLLQIPRIEMKIR

>sp|Q6IF63|052W1\_HUMAN Olfactory receptor 52W1 OS=Homo sapiens GN=OR52W1 PE=2 SV=2  
MAETLQLNSTFLHPNFILTGFPGLGSAQTWLTLVFGPIYLLALLGNGALPAVVWIDSTL  
HQPmFLLAILAATDLGLATSIAPGLLAVLWLGPRSVPYAVCLVQMFFVHALTAMESGVL  
LAMACDRAAAIGRPLHYPVLVTKACVGYAALALALKAVAIVVPFLLVAKFEHFQAKTIG  
HTYCAHMAVVELVVGNTQATNLYGLALSIAISGMDILGITGSYGLIAHAVLQLPTREAH  
KAFGTCSSHICVILAFYIPGLFSYLTHRFGHHTVPKPVHILLSNIYLLPPLNPLIYGA  
RTKQIRDRLLETFTFRKSPL

>sp|Q8NH76|056B4\_HUMAN Olfactory receptor 56B4 OS=Homo sapiens GN=OR56B4 PE=2 SV=1  
MDTSTSVTYDSSLQISQFILMGLPGIHEWQHWSLPLTLLYLLALGANLLIITIQHETV  
LHEPMYHLLGILAVVDIGLATTIMPKILAIWFDAKAISLPMCFQIYAIHCFFCIESGI  
FLCMAVDRYIAICRPLQYPSIVTKAFVFKATGFIMLRNGLLTIPVPILAAQRHYCSRNEI  
EHCLCSNLGVISLACDDITVNKFYQLMLAWVLVGSDMALVFSSYAVILHSVLRNLNSAEAM  
SKALSTCSSHLILILFHTGIIVLSVTHLAEKKIPLIPVFLNVLHNVIPPALNPLACALRM  
HKLRLGFQRLLGLGQDVSK

>sp|POC628|05AC1\_HUMAN Olfactory receptor 5AC1 OS=Homo sapiens GN=OR5AC1 PE=3 SV=1  
MAEENKILVTHFVLTLGLDHPGLQAPLFLVFLVIYLLITLVGNLGLMALIWKDPHLHTPIY  
LFLGSLAFADACTSSSVTSKMLINFLSKNHMLSMACATQFYFFGSNATTECFLLVVMAY  
DRYVAICNPLLYPVMSNSLCTQFIGISYFIGFLHSAIHVGLLFRLTFCRSNIHIFYCE  
ILQLFKISCTNPTVNILLIFISAFIQVFTFMTLIVSYIILSAILKKKSEKGRSKAFST  
CSAHLSSVSLFYGTLLFFMYVSSRSGSAADQAKMYSLFYTIIPLLNPFYISLRNKEVIDA  
LRRIMKK

>sp|Q8NH90|05AK2\_HUMAN Olfactory receptor 5AK2 OS=Homo sapiens GN=OR5AK2 PE=2 SV=1  
MTLGNSTEVTEFYLLGFGAQHEFWCILFIVFLLIYVTSIMGNSGIILLINTDSRFQTLTY  
FFLQHLAFVDICYSAITPKMLQSFTTEKNLMLFQGCVIQFLVYATFATSDCYLLAMMAV  
DPYVAICKPLHYTVIMSRTVCIRLVAGSYIMGSINASVQTGFTCSLSFCKSNSINHFFCD  
VPPILALSCSNVDINIMLLVVFVGSNLIFTGLVVIFSYIYIMATILKMSSSAGRKKSFS  
CASHLTAVTIFYGTLSSMYLQSHSNNSQENMKVAFIFYGTVIPMLNPLIYSLRNKEVKEA  
LKVIGKKLF

>sp|Q8NGC0|05AU1\_HUMAN Olfactory receptor 5AU1 OS=Homo sapiens GN=OR5AU1 PE=2 SV=2  
MTEFHLQSQMPSIRLIFRRLSLGRIKPSQSPRCSTSFMVVPSFSIAEHWRMKGANLSQG  
MEFELLGLTTDPQLQRLLFVFLGMYTATLLGNLVMFLLIHVSATLHTPMYSLKSLSFL  
DFCYSTTVVPQTLVNFLAKRKVISYFGCMQMFYAGFATSECYLIAAMAYDRYAAICNP  
LLYSTIMSPEVCASLIVGSYAGFLNSLIHTGCIFSLKFCGAHVVTHFFCDGPPILSLSC  
VDTSLCEILLFIFAGFNLLSCTLTILISYFLILNTILKMSSAQGRFKAFSTCASHLTAIC  
LFFGTTLFMYLRPRSSYSLTQDRTVAVIYTVVIPVLNPLMYSLRNKDVKKALIKVWGRKT  
ME

>sp|A6NL08|06C75\_HUMAN Olfactory receptor 6C75 OS=Homo sapiens GN=OR6C75 PE=3 SV=1  
MRNSTAVTDFILLGLTSDPQWQVVLFIPLLVTYMMLSVTGNLIITLTLSDPHLQTPMYFF  
LRNFSFLEISFTSVCIPRFLVTVTGNRTISYNGCVAQLFFFIFLGVTEFYLLAAMS YDR  
CMAICKPLHYTIIIMSTRVCTLLVFSSWLAGFLIIFPPVMLLLQLDFCASNVIDHFCDS  
PMLQLSCTNTHFELMAFFLAVVTLMTLTLVILSYTNIIRTILKIPSMSQRKKAFSTCS  
SHMIVVISISYSSCIFMYIKTSARERVTLKGVAVLNTSVAPLLNPFYITLRNKQVKQAFK

SMVQKMIFSLNK

>sp|P54368|OAZ1\_HUMAN Ornithine decarboxylase antizyme 1 OS=Homo sapiens GN=OAZ1 PE=1 SV=3

MVKSSLQRILNSHCFAREKEGDKPSATIHASRTMPLLSLHSRGGSSSESSRVSLHCCSNP  
GPGPRWCSDAPHPLKIPGGRGNSQRDHNLNLFYSDDRLNVTEELTSNDKTRILNVQS  
RLTDAKRINWRTVLSGGSLYIEIPGGALPEGSKDSFAVLLEFAEEQLRADHVFICFHKNR  
EDRAALLRTFSFLGFEIVRPGHPLVPKRPDACFMAYTFERESSGEEEE

>sp|095190|OAZ2\_HUMAN Ornithine decarboxylase antizyme 2 OS=Homo sapiens GN=OAZ2 PE=1 SV=1

MINTQDSSILPLSNCPQLQCCRHIVPGPLWCSDAPHPLSKIPGGRGGGRDPSLSALIYKD  
EKLTVTQDLPVNDGKPHIVHFQYEVTEVKVSSWDAVLSSQSLFVEIPDGLLADGSKEGLL  
ALLEFAEEKMKVNYVFICFRKGREDRAPLLKTFSLGFEIVRPGHPCVPSRPDVMFMVYP  
LDQNLSDED

>sp|Q9NY56|OBP2A\_HUMAN Odorant-binding protein 2a OS=Homo sapiens GN=OBP2A PE=1 SV=1

MKTLFLGVTGLGLAAALSFTLEEEDITGTWYVKAMVVDKDFPEDRRPRKVSPVKVTALGGG  
NLEATFTFMREDRCIQKKILMRKTEEPGKFSAYGGRKLIYLQELPGTDDYVFYCKDQRRG  
GLRYMGKLVGRNPNTNLEALEEFKKLVQHKGLSEEDIFMPLQTGSCVLEH

>sp|Q9NPH6|OBP2B\_HUMAN Odorant-binding protein 2b OS=Homo sapiens GN=OBP2B PE=2 SV=1

MKTLFLGVTGLGLAAALSFTLEEEDITGTWYVKAMVVDKDFPEDRRPRKVSPVKVTALGGG  
KLEATFTFMREDRCIQKKILMRKTEEPGKYSAYGGRKLMYLQELPRRDHYIFYCKDQHHG  
GLLHMGLVGRNSDNTNREALEEFKKLVQRKGLSEEDIFTPLQTGSCVPEH

>sp|Q9BZK8|OCR1\_HUMAN Ovarian cancer-related protein 1 OS=Homo sapiens GN=OCR1 PE=4 SV=1

MPVAPSNHCDNQPHIFSKALVSVAPSPPRDKPAPYTFTDVSSLCGLQKKCEGGKAMLF  
TLKRDRFSFLLFVSHC

>sp|Q8IXM7|OD3L1\_HUMAN Outer dense fiber protein 3-like protein 1 OS=Homo sapiens  
GN=ODF3L1 PE=2 SV=1

MKLPKGTRSSVYFAQHPEKEPLPSRQEVKQTPVIMAKIKGPGPAKYLRPSCTGYIDHDIS  
MFKAPAYTLHSRHSSEKRMVCHSSPGPCYLLDPKITRFGMSSCPQVPMEEIRISNLRNLNPTL  
ASCQYYFEKIHPGERRAPQYTFGYRRPYRVMDLNPAPNQYQMPLLLGPNTPVSRAAPCY  
SLASRDKNWFYKEDVAGGPGPTTYARPEPSIYQNSPTYSMAKRFAYPLDLTPRPGPGSH  
EVQQVTVHKPHIPAFTMGIKHSLHLCPLVIDIRD

>sp|P21953|ODBB\_HUMAN 2-oxoisovalerate dehydrogenase subunit beta, mitochondrial OS=Homo  
sapiens GN=BCKDHB PE=1 SV=2

MAVVAAGWLLRLRAAGAEGHWRLPGAGLARGFLHPAATVEDAAQRRQVAHFTFQPD  
EPREYGGTQKMNLFQSVTSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDYKGKDRVF  
NTPLCEQGIVGFGIGIAVTGATAIAEIQFADYIFPAFDQIVNEAAKYRYSRGLFNCGL  
TIRSPWGCVGHGALYHSQSPEAFFAHCPGIKVVIPRSPFAQGLLLSCIEDKNPCIFFEP  
KILYRAAAEEVPIEPYNIPLSQAQEVQEGSDVTLVWGTQVHVIREVASMAGEKLGVSCE  
VIDLRTIIPWDVDTICKSVIKTGRLLISHEAPLTGGFASEISSTVQEECFNLNLEAPISRV  
CGYDTPFPPIFEPFYIPDKWKCYDALRKMINY

>sp|Q96PU9|ODF3A\_HUMAN Outer dense fiber protein 3 OS=Homo sapiens GN=ODF3 PE=2 SV=1

MTEEVWMGTWRPHRPRGPIMALYSSPGPKYLIPPTTGFMKHTPTKLAPAYSFRGAPMLL  
AENCSPGPRYNVNPILRTGKDLGPAYSILGRYQTKTMLTPGPGDYFPEKSTKYVFD  
SHSISARTKAFRVDSTPGPAAYMLPMVMGPNTVGKASQPSFSIKGRSKLGGFSDDLHKTP

GPAAYRQTDVRVTKFKAPQYTMAARVEPPGDKTLKPGGAHSPEKVTLTKPCAPVVTFGI  
KHSDYMTPLLVDVE

>sp|Q5SWX8|ODR4\_HUMAN Protein odr-4 homolog OS=Homo sapiens GN=ODR4 PE=1 SV=1

MGRTYIVEETVGQYLSNINLQGKAFVSGLLIGQCSSQKDYLATRTPPKEEQSENKHP  
KAKLDNLDEEWATEHACQVSRMLPGGLLVGVFIITTTLELANDFQNALRRLMFAVEKSIN  
RKRLWNFTEEVSESVTLHICASTKKIFCRTYDIHDPKSSARPADWKYQSGLSSSWLSLE  
CTVHINIHIPLSATSVSYLEKNTKNGLTRWAKEIENG VYLINGQVKDEDCDLLEGQKKS  
SRGNTQATSHSFDVRVLTQLLLNSDHRSTATVQICSGSVNLKGAVKCRAYIHSSKPKVKD  
AVQAVKRDILNTVADRCEMLFEDLLLNEIPEKKDSEKEFHVLPYRVFVPLPGSTVMLCDY  
KFDDESAAEIRDHFMEMLDHTIQIEDLEIAEETNTACMSSSMNSQASLDNTDDEQPKQPI  
KTTMLLKIQQNIGVIAAFTVAVLAAGISFHYFSD

>sp|075665|OFD1\_HUMAN Oral-facial-digital syndrome 1 protein OS=Homo sapiens GN=OFD1 PE=1  
SV=1

MMAQSNMFTVADVLSQDELKKLYQTFKDRGILDTLKTQLRNQLIHELMHPVLSGELQPR  
SISVEGSSLLIGASNSLVADHLQRCGYEYSLSVFFPESGLAKEKVFTMQDLLQLIKINPT  
SSLYKSLVSGSDKENQKGFLMHFLKELAEYHQAKESCNETQTSSTFNDRSLAEKLQLID  
DQFADAYPQRIKFESLEIKLNEYKREIEEQLRAEMCQKLFFKDTEIAKIKMEAKKYEK  
ELTMFQNDFEKACQAKSEALVLRKSTLERIHKHQEIETKEIYAQRQLLLKMDLLRGRE  
AELKQRVEAFELNQKLQEEKHKSITEALRRQEQNIKSFEETYDRKLKNELLKYQLELKDD  
YIIRTNRLIEDERKNKEKAVHLQEELIAINSKEELNQSVNRVKELELELESVKAQSLAI  
TKQNHMLNEKVKEMSDYSLLEEKLELLAQNKLLKQLEESRNENLRLNRLAQPAPELA  
VFQKELRKAEKAIIVVEHEEFESCRQALHKQLQDEIEHSAQLKAQILGYKASVKSLTTQVA  
DLKLQLKQTQTALENEVYCNPQSVIDRSVNGLINGNVPCNGEISGDFLNNPFKQENVL  
ARMVASRITNYPTAWVEGSSPDSLEFVANTKARVKELQQAERLEKAFRSYHRRVIKNS  
AKSPLAAKSPPSLHLLAEAFKNITSSSPERHIFGEDRVVSEQPQVGTLEERNDVVEALTGS  
AASRLRGGTSSRRLSSTPLPKAKRSLESEMYLEGLGRSHIASPSPCDRMLPSPTESRH  
SLSIPPVSSPPEQKVGLYRRQTELQDKSEFSDVDKLAFKDNEEFESSFESAGNMPRQLEM  
GGLSPAGDMSHVDAAAAAPLSYQHPSVDQKQIEEQKEEEKIREQQVKERRQREERRQSN  
LQEVLERERRELEKLYQERKMIEESLKIKIKKELEMENELEMSNQEIKD KSAHSENPLEK  
YMKIIQQEQDQESADKSSKKMVQEGSLVDTLQSSDKVESLTGFSHEELDDSW

>sp|Q9H488|OFUT1\_HUMAN GDP-fucose protein O-fucosyltransferase 1 OS=Homo sapiens  
GN=POFUT1 PE=1 SV=1

MGAAAWARPLSVSFLLLLPLPGMPAGSWDPAGYLLYPCMGFRGNQADHFLGSLAFACL  
LNRTLAVPPWIEYQHHKPPFTNLHVS YQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPE  
KRVAYCFEVAARSPDKKTCPMKEGNPFGPFDQFHVSFNKSELFTGISFSASYREQWSQ  
RFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMKTGEAQIHAHLVRPYVGIHLR  
IGSDWKACAMLDKGTAGSHFMASPCVGYRSSTAAPLTMTMCLPDLKEIQRAVKLVVRS  
LDAQSVYVATDSESYVPELQQLFKGKVKVSLKPEVAQVDLYILGQADHFIGNCVSSFTA  
FVKRERDLQGRPSSFFGMDRPPKLRDEF

>sp|Q9Y2G5|OFUT2\_HUMAN GDP-fucose protein O-fucosyltransferase 2 OS=Homo sapiens  
GN=POFUT2 PE=1 SV=3

MATLSFVFLLLGAVSWPPASASGQEFWPGQSAADILSGAASRRRYLLYDVNPPEGFNLR  
DVYIRIASLLKTLKTEEWVLVLPWPGRLYHWQSPDIHQVRIPWSEFFDLPSLNKNIPVI  
EYEQFIAESGGPFIDQVYVLQSYAEGWKEGTWEEKVDERPCIDQLLYSQDKHEYRGWFW

GYEETRGLNVSVQGSASIVAPLLLRNTSARSVMDRAENLLHDHYGGKEYWDTRRSM  
VFARHLREVGDEFRRHLNSTDDADRIPFQEDWMKMKVKLGSALGGPYLGVHLRRKDFIW  
GHRQDVPSLEGAVRKIRSLMKTHRLDKVVFATDAVRKEYEELKKLLPEMVRFEPTWEELE  
LYKDGGAVIDQWICAHARFFIGTSVSTFSFRIHEEREILGLDPKTTYNRFCGDQEKACE  
QPTHWKITY

>sp|Q9ULD0|OGDHL\_HUMAN 2-oxoglutarate dehydrogenase-like, mitochondrial OS=Homo sapiens  
GN=OGDHL PE=1 SV=3

MSQLRLLPSRLGVQAARLLAAHDPVFGWRSRSSGPPATFPSSKGGGSSYMEEMYFAWL  
ENPQSVHKSWSDFREASEEAFSGSAQPRPPSVVHESRSVSSRTKSKLVEDHLAVQSL  
IRAYQIRGHHVAQLDPLGILDADLDSFVPSDLITTIDKLAFYDLQEADLDKEFQLPTTTF  
IGGSENTLSLREIIRRENTYCQHIGLEFMFINDVEQCQWIRQKFETPGVMQFSSEEKRT  
LLARLVSRMFEDFLARKWSSEKRFGLGCEVMIPALKTIIDKSSEMGIENTVILGMPHRG  
RLNVLANVIRKDLEQIFCQFDPKLEAADEGSGDVKYHLGMYHERINRVNTRNITLSLVAN  
PSHLEAVDPVVQGKTAEQFYRGAQGGKVMMSILVHGDAAFAGQGVVYETFHLSDLPSYT  
TNGTVHVVVNNQIGFTTDPMARSSPYPTDVARVNNAPIFHVNADDPEAVIYVCSVAAEW  
RNTFNKDVVVDLVCYRRRGHNEMDEPMFTQPLMYKQIHRQVPVLKKYADKLI AEGTVTLQ  
EFEETIAKYDRICEEAYGRSKDKKILHIKHWLDSPWPGFFNVDGEPKSMTCPATGIPEDM  
LTHIGSVASSVPLEDFKIHTGLSRILRGRADMTKNRTVDWALAEYMAFGSLLKEGIVHRL  
SGQDVERGTFSRHHVLDHDEVDRTCVPMNHLWPDQAPYTCNSSLSEYGVLFELGYA  
MASPNALVLWEAQFGDFHNTAQCIIDQFISTGQAKWVRHNGIVLLLPHGMEGMGPEHSSA  
RPERFLQMSNDDSDAYPAFTKDFEVSQLYDCNWIVVNCSTPANYFHVLRRLQILLPFRKPL  
IIFTPKSLLRHPEAKSSFDQMVSGTSFQRVIPEDGAAARAPEQVQRLIFCTGKVYYDLVK  
ERSSQDLEEKVAITREQISPPFPDLIKQAEKYPGAELAWCQEEHKMGYYDYISPRFM  
TILRRARPIWYVGRDPAAAPATGNRNTHLVSLKKFLDTAFNLQAFEGKTF

>sp|P13725|ONCM\_HUMAN Oncostatin-M OS=Homo sapiens GN=OSM PE=1 SV=2

MGVLLTQRTLLSLVLALLFPSMASMAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLDPYI  
RIQGLDVPKLREHCRERPGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKA  
QDLERSGLNIEDLEKLQMARPNILGLRNNIYCAQLLDNSDTAEPTKAGRGASQPPTPTP  
ASDAFQRKLEGCRFLHGYYHRFMHSVGRVFSKWGESPNRSRRHSPHQALRKGVRRTRPSRK  
GKRLMTRGQLPR

>sp|095948|ONEC2\_HUMAN One cut domain family member 2 OS=Homo sapiens GN=ONECUT2 PE=2  
SV=2

MKAAYTAYRCLTKDLEGCAMNPELTMESLGLHGPAGGGSGGGGGGGGGGGGGPGHEQE  
LLASPSPHHAGRAAGSLRGPPPPPTAHQELGTAAAAAAAASRSAMVTSMASILDGGDYR  
PELSIPLHHAMSMSCDSPPGMGMSNTYTTLTPLQPLPPISTVSDKFHHPHHHHPHHHH  
HHHHQRLSGNVSGSFTLMRDERGLPAMNNLYSPYKEMPGMSQSLSPLAATPLGNLGLGLH  
NAQQSLPNYGPBGDKMLSPNFDAHHTAMLTRGEQHLSRGLGTPAAMMSHLNGLHHPGH  
TQSHGPVLAPSRERPPSSSSGSQVATSGQLEEINTKEVAQRITAELKRYSHIPQAIFAQRV  
LCRSQGTLSDLLRNPKPWSKLKSGRETFRRMWKLQEPEFQRMSALRLAACKRKEQEPNK  
DRNNSQKKSRLVFTDLQRRTLFAIFKENKRPSKEMQITISQQLGLELTTVSNFFMNARRR  
SLEKWQDDLSTGSSSTSSTCTKA

>sp|Q8NGQ3|OR1S2\_HUMAN Olfactory receptor 1S2 OS=Homo sapiens GN=OR1S2 PE=3 SV=2

MKTLCSTFLQISRNMHQENQTTITEFILLGLSNQAEHQNLFLVFLSMYVVTVVGNGLIIV  
AISLDIYLHTPMYLFAYLSFADISSISNSVPKMLVNIQTNSQSISYESCITQMYFSIVF

VVTDNLLLGTMAFDHFVAICHPLNYTTFMRARFGTLLTVISWFLSNIIALTHTLLLIQLL  
FCDHNTLPHFCDLAPLLKLSCSDTMINELVLFIVGLSVIIFPFVLIFFSYVCIIRAVLG  
VSSTQGWKAFSTCGSHLTIALLFYGTTVGVYFFPSSTHPEDTDKIGAVLFTVVTMMNP  
FIYSLRNKDMKGALRKLINRKISSL

>sp|Q96R48|OR2A5\_HUMAN Olfactory receptor 2A5 OS=Homo sapiens GN=OR2A5 PE=2 SV=2

MTKNQTVWTEFILLGFPLSLRIQMLLSGLFSLLYVFTLLGNGAILGLIWLDLRLHTPMYF  
FLSHLAIIDISYASNNVPKMLTNLGLNKRKTISFVPCTMQTFLYMAFAHTECLILVMSY  
DRYMAICHPLQYSVIMRWGVCTVLAVTSWACGSLLALVHVVLILRLPFCGPHEINHFFCE  
ILSVLKLACADTWNQVVIFAASVFILVGPLCLVLVSYSRILAAILRIQSGEGRRKAFST  
CSSHLCMVGLFFGSAIVMYMAPKSRHPPEEQKVLSLFYSLFNPMLNPLIYSLRNAEVKGA  
LKRVLWKQRSK

>sp|Q8NGT9|OR2A1\_HUMAN Olfactory receptor 2A1/2A42 OS=Homo sapiens GN=OR2A1 PE=3 SV=2

MGENQTMVTEFLLLGFLLPRIQMLLFGFLSFYIFTLLGNGAILGLISLDSRLHTPMYF  
FLSHLAVVDIAYTRNTVPQMLANLLHPAKPISFAGCMTQTFLCLSFHGSECLLLVMSYD  
RYVAICHPLRYSVIMTWVRCITLAVTSWTCGSLLALAHVVLILRLPFGPHEINHFFCEI  
LSVLRACADTWNQVIFAACVFFLVGPPSLVLVSYSHILAAILRIQSGEGRRKAFSTC  
SSHLCVGLFFGSAIIMYMAPKSRHPPEEQKVFFLFYSFFNPTLNPLIYSLRNGEVKGA  
RRALGKESHS

>sp|Q8N628|OR2C3\_HUMAN Olfactory receptor 2C3 OS=Homo sapiens GN=OR2C3 PE=2 SV=3

MMEIANVSSPEVFVLLGFSTRPSLETVLFIVVLSFYMVSIILGNGIIILVSHTDVHLHTPM  
YFFLANLPFLDMSFTTSIVPQLLANLWGPQKTSYGGCVVQFYISHWLGATECVLLATMS  
YDRYAAICRPLHYTVIMHPQLCLGLALASWLGGTTSMVGSTLTMLPLCGNNCIDHFFC  
EMPLIMQLACVDTSLNEMEMYLASFVFVVLPLGLILVSYGHIAAVLKIRSAEGRRKAFN  
TCSSHVAVVSLFYGSIIFMYLQPAKSTSHEQGKFIALFYTVVTPALNPLIYTLRNTEVKS  
ALRHMVLECCGSAGKLAQI

>sp|Q8NGH3|OR2D3\_HUMAN Olfactory receptor 2D3 OS=Homo sapiens GN=OR2D3 PE=2 SV=2

MCSFFLCQTGKQAKISMGEENQTFVSKFIFLGLSQDLQTQILLFILFLIIYLLTVLGNQL  
IIILIFLDSRLHTPMYFFLRNLSFADLCFSTSIVPQVLVHFLVKRKTISFYGCMTQIIIVF  
LLVGCTECALLAVMSYDRYVAVCKPLYYSTIMTQRVCLWLSFRSWASGALVSLVDSFTF  
HLPYWGQNIINHYFCEPPALLKLASIDTYSTEMAIFSMGVVILLAPVSLILGSYWNIIST  
VIQMQSGEGRKAFSTCGSHLIVVLFYSGSIFTYMRPNKTTKELDKMISVFYTAVTM  
LNPIIYSLRNKDKGALRKLVGRKCFSHRQ

>sp|Q8NGZ5|OR2G2\_HUMAN Olfactory receptor 2G2 OS=Homo sapiens GN=OR2G2 PE=3 SV=1

MGMVRHTNESNLAGFILLGFSDYPQLQKVLVFLILILYLLTILGNTTIIILVSRLEPKLHM  
PMYFFLSHLSFLYRCFTSSVIPQLLVNLWPEPKTIAYGGCLVHLYNSHALGSTECVLPV  
MSCDRYVAVCRPLHYTVLMHIHLCMALASMAWLSGIATTLVQSTLTQLPFCGHRQVDHF  
ICEVPVLIKLACVGTTFNEAEFVASILFLIVPVSFILVSSGYIAHAVLRIKSATRRQKA  
FGTCFSLHTVVTIFYGTIIFMYLQPAKSRSDQGKFVSLFYTVVTRMLNPLIYTLRIKEV  
KGALKKVLAKALGVNII

>sp|Q8NGU4|OR2I1\_HUMAN Putative olfactory receptor 2I1 OS=Homo sapiens GN=OR2I1P PE=5  
SV=1

MLANQASAEERFLLLGFSWPSLQPVLFALVLLCYLLTLTGNSALVLLAVRDPRLHTPMY  
YFLCHLALVDAGFTTSVVPPLLANLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMAL  
DRAAAVCRPLRYAGLVSPRLCRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICE

LPALLKLACGGDGTENQMFAARVVILLLPFAVILASYGAVARAVCCMRFSGGRRRAVG  
TCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLIYTLRNKKVKG  
AARLLRSLGRGQAGQ

>sp|076002|OR2J2\_HUMAN Olfactory receptor 2J2 OS=Homo sapiens GN=OR2J2 PE=2 SV=1  
MMIKKNASSEDFFILLGFSNWPQLEVVLFVVILIFYLMTLTGNLFIIILSYVDSHLHTPM  
YFFLSNLSFLDLCHTSSIPQLLVNLRGPEKTISYAGCMVQLYFVLALGIAECVLLVMS  
YDRYVAVCRPLHYTVMHPRFCHLLAAASWVIGFTISALHSSFTFWVPLCGHRLVDHFFC  
EVPALLRLSCVDTHANELTLMVSSIFVLIPLILILTAYGAIARAVLSMQSTTGLQKVFR  
TCGAHLMVVSLFFIPVMCMYLQPPSENSPDQGKFIALFYTVVTPSLNPLIYTLRNKHVKG  
AAKRLLGWEWGK

>sp|Q8NG83|OR2M3\_HUMAN Olfactory receptor 2M3 OS=Homo sapiens GN=OR2M3 PE=2 SV=1  
MARENSTFNDFILLGIFNHSPHTFLFVLAIIFSVAFMGNSVMVLLIYLDQLHTPMY  
LLLSQLSLMDMLICTTVPKMAFNLYSGSKSISMAGCATQIFFYTSLLGSECFLAVMAY  
DRYTAICHPLRYTNLMSPKICGLMTAFSWILGSTDGIIDVVATFSFSYCGSREIAHFFCD  
FPSLLILSCSDTSIFEKILFICCIVMIVFPVAIIIASYARVILAVIHMGSGEGRRAFTT  
CSSHLLVVGMYGAALFMYIRPTSDRSPTQDKMVSVFYITLTPMLNPLIYSLRNKEVTRA  
FMKILGKGKSGE

>sp|P47888|OR3A3\_HUMAN Olfactory receptor 3A3 OS=Homo sapiens GN=OR3A3 PE=2 SV=3  
MSLQKLMEPEAGTNRTAVAEFILLGLVQTEEMQPVVVFVLLFAYLVTGGNLSILAAVLV  
EPKLHAPMYFFLGNLSVLDVGCITVTVPAMLGRLLSHKSTISYDACLSQLFFFHLLAGMD  
CFLLTAMAYDRLLAICQPLTYSTRMSQTVQRMLVAASWACAFTNALHTVAMSTLNFCGP  
NEVNHFYCDLPQLFQLSCSSTQLNELLLFVAAAFMAVAPLVFISVSYAHVVAVLQIRSA  
EGRKKAFASTCGSHLTVVGIFYGTGVFSYMRGSGVESDCKDKGVGVFMTVINPMLNPLIYS  
LRNTDVQGALCQLLVGKRSLT

>sp|Q8NGC5|OR6J1\_HUMAN Olfactory receptor 6J1 OS=Homo sapiens GN=OR6J1 PE=3 SV=1  
MGNWTAATEFVLLGFSLSREVELLLLVLPTFLLTLLGNLLIISTVLSCSRLHTPMYF  
FLCNLSILDILFTSVISPKVLANLGSRDKTISFAGCITQCYFYFFLGTVEFLLTVMSYD  
RYATICCPTRYTIMRPSVCIGTVVFSWVGGLSVLFPTILISQLPFCGSNIINHFFCDS  
GPLLALACADTTAIELMDFMLSSMVLCCIVLVAYSITYIILTIVRIPSASGRKKAFNTC  
ASHLTIVIIIPSGITVFIYVTPSQKEYLEINKIPLVLSSVVTPLNPFYITLRNDTVQGVL  
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>sp|POC7N5|OR8U9\_HUMAN Olfactory receptor 8U9 OS=Homo sapiens GN=OR8U9 PE=3 SV=1  
MTQINCTQVTEFIVGLTDRQELKMPLFVLFSLIYLFVVGNLGLILLIRTDEKLNTPMY  
FFLSNLAQVDFCYSSVITPKMLGNFLYKQNSISFNACAAQLGCFLAFMTAECLLLASMAY  
DRYVAICNPLMYMVVMSPGICQLVAAPHSYSILVALFHTILTFRLSYCHSNIVNHFYCD  
DMPLRLRLTCSDFTRFKQLWIFACAGIMFISSLLIVFVSYMFIIISAILRMHSAEGRQKAFST  
CGSHMLAVTIFYGTLIFMYLQPSSSHALDTDKMASVFYTVIIPMLNPLIYSLQNKEVKEA  
LKKIINKN

>sp|Q8NGU1|OR9A1\_HUMAN Putative olfactory receptor 9A1 OS=Homo sapiens GN=OR9A1P PE=5  
SV=2  
MLGNYSSATEFFLLGFPGSQEVCRILFATFFLLYAVTMGNVVIITVCVDKCLQSPIYF  
FLGHLCVLEILITSTAVPFMLWGLLPSTQIMSLTACAAQLYLYLSLGTLELALMGVMAV  
DRYVAVCNPLRYNIIMNSSTFIWVIVSWVLGFLSEIWPVYATFQLTFCKSSVLDHFYCD  
RGQLLKVSCEDTLFREFILFLMAVFIIIGSLIPTIVSYTYIISTNLKIPSASGWRKSFST



CASHFTYVVIGYGSCFLYVKPK

>sp|Q8NGT5|OR9A2\_HUMAN Olfactory receptor 9A2 OS=Homo sapiens GN=OR9A2 PE=2 SV=1

MMDNHSSATEFHLLGFPQSGLHHILFAIFFFFYLVTLMGNTVIIIVIVCVDKRLQSPMYF  
FLSHLSTLEILVTIIIVPMLWGLFLGCRQYLSLHVSLNFSCGTFEALLGVMAVDRYV  
AVCNPLRYNIIMNSSTCIWVIVSWVFGFLSEIWPIYATFQFTFRKSNSLDHFYCDRGQL  
LKLSCDNTLLTEFILFLMAVFILIGSLIPTIVSYTYIIISTILKIPSASGRRKAFSTFASH  
FTCVVIGYGSCFLYVKPKQTQGEYENKIVSLLVSVLTPFLNPFIFTLRNDKVKEALRDG  
MKRCCQLLKD

>sp|Q8NH87|OR9G1\_HUMAN Olfactory receptor 9G1 OS=Homo sapiens GN=OR9G1 PE=3 SV=1

MQRSNHTVTEFILLGFTTDPGMQLGLFVVFLGVYSLTVVGNSTLIVLICNDSCLHTPMYF  
FTGNLSFLDLWYSSVYTPKILVTCISEDKSI SFAGCLCQFFSAGLAYSECYLLAAVAYD  
RYVAISKPLLYAQAAMSIKLCALLVAVSYCGGFINSSIIITKKTFSNFCRENIIDDFCDL  
LPLVELACGEKGGYIMMYFLLASNVICPAVLILASYLFIITSVLRISSSKGYLKAFSTC  
SSHLTSVTLYGSI LYIYALPRSSYSFDMDKIVSTFYTVVFPMLNMIYSLRNKDVKEAL  
KKLLP

>sp|Q8NGQ6|OR9I1\_HUMAN Olfactory receptor 9I1 OS=Homo sapiens GN=OR9I1 PE=3 SV=1

MAKNNLTRVTEFILMGFMDHPKLEIPLFLVFLSFYLVTLGNVGMIMLIQVDVKLYTPMY  
FFLSHLSLLDACYSVITPQILATLATGKTVISYGHCAAQFFLTICAGTECFLLAVMAY  
DRYAAIRNPLLYTVAMNPRLCWSLVVGAYVCGVSGAILRTTCTFTLSFCKDNQINFFCD  
LPPLLKLACSDTANIEI VIFFGNFVILANASVILISYLLI IKTILKVSSGGRAKTFST  
CASHITAVALFFGALIFMYLQSGSGKSLEEDKVVS VFYTVVIPMLNPLIYSLRNKDVKDA  
FRKVARRLQVSLSM

>sp|Q9BRQ5|ORAI3\_HUMAN Protein orai-3 OS=Homo sapiens GN=ORAI3 PE=1 SV=2

MKGEGDAGEQAPLNPEGESAGSATYREFVHRGYLDLMGASQHSRLALSWRRLYLSRAK  
LKASSRTSALLSGFAMVAMVEVQLES DHEYPPGLLVAFSACTTVLVAVHLFALMVSTCLL  
PHIEAVSNIHNLNSVHQSPHQLRHRYVELAWGFSTALGTFLAEVVLVGWVKFVPIGAP  
LDTPTPMVPTSRVPGTLAPVATSLSPASNLPSSASAAPSQAEPACPPRQACGGGGAHGP  
GWQAAMASTAIMVPVGLVFVAFALHFYRSLVAHKTDRYKQEEELNRLQGELQAV

>sp|Q13415|ORC1\_HUMAN Origin recognition complex subunit 1 OS=Homo sapiens GN=ORC1 PE=1 SV=2

MAHYPTRLKTRKTYSWVGRPLDRKLHYQTYREMCVKTEGCSTEIHIQIGQFVLI EGDDD  
ENPYVAKLLELFEDDSDPPPKRARVQWFVRCEVPACKRHLLGRKPGAQE IFWYDYPAC  
DSNINAETII GLVRVIPLAPKDVVPTNLKNEKTLFVKLSWNEKKFRPLSSELFAELNKPQ  
ESAACQKQPVRAKSKSAESPSWTPAEHVAKRIESRHSASKSRQTPTHPLTPRARKRELG  
NLGNPQMSQQTSCASLDSPGRIKRKVAFSEITSPSKRSQPDKLQTLSPALKAPEKTRETG  
LSYTEDDKKASPEHRIILRTRIAASKTIDIREERTLTPISGGQRSSVPSVILKPENIKK  
RDAKEAKAQNEATSTPHRIRRKSSVLT MNIRIQQRLFLGNSKSDQEEKEILPAAEISDSS  
SDEEEASTPPLPRRAPRTVSRNLRSSLKSSLHTLTKVPKSLKPRTPRCAAPQIRSRSLA  
AQEPASVLEEARLRLHVS AVPESELPCREQEFQDIYNFVESKLLDHTGGCMYISGVPGTGK  
TATVHEVIRCLQAAQANDVPPFYIEVNGMKLTEPHQVYVQILQKLTGQKATANHAAEL  
LAKQFCTRGSPQETTVLLVDELDLLWTHKQDIMYNLFDWPTHKEARLVVLA IANTMDLPE  
RIMMNRVSSRLGLTRMCFQPYTYSQLQQILRSRLKHLKAFEDDAIQLVARKVAALSGDAR  
RCLDICRRATEICEFSQQKPDSPGLVTIAHSMEAVDEMFS SSYITA IKNSSVLEQSFLRA  
ILAEFRRSGLEEATFQQIYSQHVALCRMEGLPYPTMSETMAVCSHLGSCRLLLV EPSRND

LLLRVRLNVSQDDVLYALKDE

>sp|Q9UBD5|ORC3\_HUMAN Origin recognition complex subunit 3 OS=Homo sapiens GN=ORC3 PE=1 SV=1

MATSSMSKGCVFVKPNSKKRKISLPIDYFNKGKNEPEDSKLRFETYQLIWQQMKSENER  
LQEELNKNLFDNLIEFLQKSHSGFQKNSRDLGGQIKLREIPTAALVLGVNVDHDLTFGS  
LTEALQNNVTPYVVSLLQAKDCPDMKHFLQKLISQLMDCCVDIKSKEEESVHVTQRKTHYS  
MDSLSSWYMTVTQKTDPKMLSKKRTTSSQWQSPPVVILKDMESFATKVLQDFIIISSQH  
LHEFPLILIFGIATSPIIIHRLPHAVSSLLCIELFQSLSCHEHLTTVLDKLLTTQFPF  
KINEKVLQVLTNIFLYHDFSVQNFIKGLQLSLEHFYSQPLSVLCCNLPEAKRRINFLSN  
NQCENIRRLPSFRRYVEKQASEKQVALLTNERYLKEETQLLENLHVYHMNYFLVLRCLH  
KFTSSLPKYPLGRQIRELYCTCLEKNIWDSEEYASVLQLLRMLAKDELMTILEKCFKVKF  
SYCENHLGSTAKRIEEFLAQFQSLDETKEEEDASGSQPKGLQKTDLYHLQKSLEMKELR  
RSKKQTKFEVLRENVNFIIDCLVREYLLPPETQPLHEVVYFSAHALREHLNAAPRIALH  
TALNNPYYYLKNEALKSEEGCIPNIAPDICIAYKLHLECSRLINLVDWSEAFATVVTAAE  
KMDANSATSEEMNEIIHARFIRAVSELELLGFIKPTKQKTDHVARLTWGGC

>sp|Q9Y5N6|ORC6\_HUMAN Origin recognition complex subunit 6 OS=Homo sapiens GN=ORC6 PE=1 SV=1

MGSELIGRLAPRLGLAEPDMLRKAEEYLRLSRVKCVGLSARTTETSSAVMCLDLAASWMK  
CPLDRAYLIKLSGLNKETYQSCLKSFECLLGLNSNIGIRDLAVQFSCIEAVNMASKILKS  
YESSLPQTQQVDLDSRPLFTSAALLSACKILKLKVDKNKMVATSGVKAIFDRLCKQLE  
KIGQQVDREPGDVATPPRKRKKIVVEAPAKEMEKVEEMPHKPKKDEDLTQDYEEWKRKIL  
ENAASAQKATAE

>sp|Q8N138|ORML3\_HUMAN ORM1-like protein 3 OS=Homo sapiens GN=ORMDL3 PE=1 SV=1

MNVGTAHSEVNPNTVMNSRGIWLSYVLAIGLLHIVLLSIPFVSVPVVWTLTNLIHNMGM  
YIFLHTVKGTPFETPDQGGKARLLTHWEQMDYGVQFTASRKFLTITPIVLYFLTSFYTKYD  
QIHFVLNTVSLMSVLIPKLPQLHGVRIFGINKY

>sp|Q9BXW6|OSBL1\_HUMAN Oxysterol-binding protein-related protein 1 OS=Homo sapiens  
GN=OSBPL1A PE=1 SV=2

MNTEAEQQLLHHARNGNAEEVRQLLETMARNEVIADINCKGRSKSNLGTPLHLACYFGH  
RQVVQDLLKAGAEVNVNNDMGDTPHRAAFTGRKELVMLLLEYNADTTIVNGSGQTAKEV  
THAEEIRSMLEAVERTQQRKLEELLLAAAREGKTTELTALLNRPNPDVNCSDQLGNTPL  
HCAAYRAHKQCALKLLRSGADPNLKNKNDQKPLDLAQAEMKHILVGKVIYKALKRYEG  
PLWKSSRFFGWRLFVVVLEHGVLVSWYRKQPDVHNIYRQGCKHLTQAVCTVKSTDSCLEFF  
IKCFDDTIHGFVRPKNSLQQSREDWLEAIEEHSAYSTHYCSQDQLTDEEEEDTVSAADLK  
KSLEKAQSCQQRDLREISNFKMIKECDMAKEMLPNFLQKVEVVSEASRETCVALTDCLN  
LFTKQEGVRNFKLEQEKEKNKILSEALETLATEHHELEQSLVKGSPASILSEDEFYDAL  
SDSESERSLRLAIVTARSFEEEGEHLGSRKHRMSEKDCGGGDALSNGIKKHRTSLPSP  
MFSRNDFSIWSILRKCIGMELSKITMPVIFNEPLSFLQRLTEYMEHTYLIHKASSLSDPV  
ERMQCVAFAVAVASQWERTGKPFNPLLGETYELVRDDLGFRLISEQVSHHPPISAFHA  
EGLNDFIFHGSIIYPKLFWGWKSVEAEPKGTITLELLEHNEAYTWTNPTCCVHNIIVGKL  
WIEQYGNVEIINHKTGDKCVLNFKPCGLFGKELHKVEGYIQDKSKKKLCALYGKWTECLY  
SVDPATFDAYKKNKNTKEKKNSQMSTSEELDEMPVPDSESVFIIPGSVLLWRIAPRP  
PNSAQMYNFTSFAMVLNEVDKDMESVIPKTDCLRLRPDIRAMENGEIDQASEEKKRLEEKQ  
RAARKNRSKSEEDWKTRWFHQGNPNYNGAQDWIYSGSYWDRNYFNLPDIY

>sp|Q9BZF1|OSBL8\_HUMAN Oxysterol-binding protein-related protein 8 OS=Homo sapiens  
GN=OSBPL8 PE=1 SV=3

MEGLADGEPDRTSLLGDSKDVLPSTVVANSDESQLLTPGKMSQRQGEAYPTPTKDLH  
QPSLSPASPHSQGFERGKEDISQNKDESSLMSKSKSESKLYNGSEKDSSTSSKLTKKES  
LKVQKKNYREEKKRATKELLSTITDPSVIVMADWLKIRGTLKSWTKLWCVLKPGVLLIYK  
TQKNGQWVGTVLLNACEIIERPSKKDGFCKLFHPLEQSIWAVKGPKGEAVGSITQPLPS  
SYLIIIRATSESDGRCWMDALELALKCSSLLKRTMIREGKEHDLVSSSDSTHVTFYGLLRA  
NNLHSGDNFQLNDSEIERQHFKDQDMYSDKSDKENDQEHDSDNEVMGKSEESDSDTTSER  
QDDSYIEPEPVEPLKETTYTEQSHEELGEAGEASQTETVSEENKSLIWTLLKQVRPGMDL  
SKVVLPTFILEPRSFLDKLSDYYYHADFLSEAALEENPYFRLKKVVKWYLSGFYKKPKGL  
KKPYNPILGETFRCLWIHPRTNSKTFYIAEQVSHHPPISAFYVSNRKDGFCLSGSILAKS  
KFGYNSLSAILEGEARLTFLNRGEDYVMTMPYAHCKGILYGTMTLELGGTVNITCQKTGY  
SAILEFKLKPFLGSSDCVNQISGKLKLGKEVLATLEGHWDSEVFITDKKTDNSEVFWNPT  
PDIKQWRLIRHTVKFEEQGDFESEKLWQRVTRAINAKDQTEATQEKYVLEEAQRQAARDR  
KTKNEEWSCKLFELDPLTGEWHYKFADTRPWPDLNDMIQFEKDGVIQTKVKHRTPMVSVP  
KMKHKPTRQQKKVAKGYSSPEPDIQDSSGSEAQSVKPSTRRKKGIELGDIQSSIESIKQT  
QEEIKRNIMALRNHLVSSTPATDYFLQQKDYFIIFLLILLQVIINFMFK

>sp|Q8N2R0|OSR2\_HUMAN Protein odd-skipped-related 2 OS=Homo sapiens GN=OSR2 PE=1 SV=2

MGSKALPAPIPLHPSLQLTNYSFLQAVNTFPATVDHLQGLYGLSAVQTMHMNHWTLYGPN  
VHEITRSTITEMAAAQGLVDARFPFPALPFTTHLFHPKQGAIAHVLPALHKDRPRDFAN  
LAVAATQEDPPKMGDLSKLSPLGSPISGLSKLTPDRKPSRGRLPSTKKEFICKFCGRH  
FTKSYNLLIHERHTDERPYTCDICHKAFRRQDHLRDHRYIHSKEKPFKCQECGKFCQS  
RTLAVHKTLMHMQESPHKCPTCGRTFNQRSNLKTHLLTHTDIKPYSCEQCGKVFRNCDLR  
RHSLTHTPRQDF

>sp|Q96MG7|NSE3\_HUMAN Non-structural maintenance of chromosomes element 3 homolog OS=Homo sapiens GN=NSMCE3 PE=1 SV=1

MLQKPRNRGRSGGQAERDRDWSHSGNPGASRAGEDARVLRDGFEEAPSTSRGPGGSQGS  
QGPSPQGARRAQAAPAVGPRSQKQLELKVSELVQFLLIKDQKKIPIKRADILKHVIGDYK  
DIFPDLFKRAAERLQYVFGYKLELEPKSNTYILINTLEPVEEDAEMRGDQGTPTTGLLM  
IVLGLIFMKGNTIKETEAWDFLRRLGVYPTKKHLIFGDPKKLITEDFVRQRYLEYRRIPH  
TDPVDYEFQWGPRTNLETSKMKVLKFVAKVHNQDPKDWPAQYCEALADEENRARPQPSGP  
APSS

>sp|Q3KNT7|NSN5B\_HUMAN Putative NOL1/NOP2/Sun domain family member 5B OS=Homo sapiens  
GN=NSUN5P1 PE=5 SV=1

MATLLAWVGVSCCELAEEFLAVSPLDPRYREVHYVLLDPSCSGSGMPSRQLEDPGAGTP  
SPVRLHALAGFQQRALCHALTFPSLQRLVYSMCSLCQEENEDMVPDALQQNPGAFRLAPA  
LPARPHRGLSTFPGAHECLRASPKTTLSGGFFVAVIERVEMPT

>sp|Q63ZY6|NSN5C\_HUMAN Putative methyltransferase NSUN5C OS=Homo sapiens GN=NSUN5P2 PE=5  
SV=2

MPELLVFPAQTDLHEHPLYRAGHLILQDRASCLPAMLLDPRQAPMSWMPVPPQAIKTSHL  
AALLKNQGKIFAFDLDAARRLASMATLLAWAGVSCCELAEEFLAVSPLDPRYREVHYVLL  
DPSCSGSGMPSRQLEEPGAGTPSPVRLHALAGFQQRALCHALTFPSLQRLVYSMCSLCQE  
ENEDMVQDALQQNPGAFRLAPALPARPHRGLSTFPGAHECLRASPKTTLSGGFFVAVIER  
VEMPTSASQAKASAPERTPSPAPKRKKRAKSCSRCLHTALHIAEAPGSLLPGGKGRCLSS

PWKTLGPHRRQQFAF

>sp|Q8NFH4|NUP37\_HUMAN Nucleoporin Nup37 OS=Homo sapiens GN=NUP37 PE=1 SV=1

MKQDASRNAAYTVDCEDYVHVVEFNPFENGDSGNLIAYGGNNYVVGTCCTFQEEEDVEG  
IQYKTLRFTFHGVRVDGIAWSPETRLDSLPPVIKFACTSAADMKIRLFTSDLQDKNEYKVL  
EGHTDFINGLVFDPKEGQEIASVSDDHCTRIWNLEGVQTAHFVLHSPGMSVCWHPEETFK  
LMVAEKNGTIRFYDLAQQAILLSLESEQVPLMSAHWCLKNTFKVGAVAGNDWLIWDITRS  
SYPQNKRPVHMDRACLFWRSTISENLFATTGYPGKMASQFQIHHLGHPQPILMGSAVGS  
GLSWHRTLPLCVIGGDHKLFWVTEV

>sp|Q9Y530|OARD1\_HUMAN O-acetyl-ADP-ribose deacetylase 1 OS=Homo sapiens GN=OARD1 PE=1 SV=2

MASSLNEDPEGSRTITYVKGDLFACPKTDSLHCISEDRCMGAGIAVLFKKKFGGVQELLN  
QQKKSGEVAVLKRDRYIYYLITKKRASHKPTYENLQKSLEAMKSHCLKNGVTDLSMPRI  
GCGLDRLQWENVSAMIEEVFEATDIKITVYTL

>sp|Q16633|OBF1\_HUMAN POU domain class 2-associating factor 1 OS=Homo sapiens GN=POU2AF1 PE=1 SV=1

MLWQKPTAPEQAPAPARPYQGVRVKEPVKELLRRKRGHASSGAAPAPTAVVLPHQPLATY  
TTVGPSCLDMEGSVSAVTEEAALCAGWLSQPTPATLQPLAPWTPYTEYVPHEAVSCPYS  
DMYVQPVCPSTYTVGPSSVLTYASPLITNVTRSSATPAVGPPLEGPEHQAPLTYFPWP  
QPLSTLPTSTLQYQPPAPALPGPQFVQLPISIPVPLQDMEDPRRAASSLTIDKLLLEE  
DSDAYALNHTLSVEGF

>sp|POCE71|OCM2\_HUMAN Putative oncomodulin-2 OS=Homo sapiens GN=OCM2 PE=5 SV=1

MSITDVLADDIAAALQECQDPDTFEPQKFFQTSGLSKMSASQVKDVFRFIDNDQSGYLD  
EELKFFLQKFESGARELTESETKSLMAAADNDGDGKIGAEFQEMVHS

>sp|A1E959|ODAM\_HUMAN Odontogenic ameloblast-associated protein OS=Homo sapiens GN=ODAM PE=1 SV=1

MKIIILLGFLGATLSAPLIPQRLMSASNSNELLLNLNNGQLLPLQLQGPLNSWIPFSGI  
LQQQQQAQIPGLSQFSLSALDQFAGLLPNQIPLTGEASFAQGAQAGQVDPLQLQTPPQTQ  
PGPSHVMPYVFSFKMPQEQGMFYYPVYMLPWEQPPQTVPRSPQQTRQQYEEQIPFY  
AQFGYIPQLAEPASGGQQQLAFDPQLGTAPEIAVMSTGEEIPYLQKEAINFRHDSAGVF  
MPSTSPKPSTTNVFTSAVDQTITPELPEEKDKTDSLREP

>sp|Q9BQT8|ODC\_HUMAN Mitochondrial 2-oxodicarboxylate carrier OS=Homo sapiens GN=SLC25A21 PE=1 SV=1

MSAKPEVSLVREASRQIVAGGSAGLVEICLMHPLDVVKTRFQIQRCATDPNSYKSLVDSF  
RMIFQMEGLFGFYKILPPIAETPKRAVKFFTFEQYKLLGYVSLSPALTFAIAGLGSG  
LTEAIVNPFVVKVGLQANRNTFAEQPSTVGYARQIIKKEGWGLQGLNKGLTATLGRHG  
VFNMVYFGFYNVKNMIPVNKDPILFWRKFGIGLLSGTIASVINIPFDVAKSRIQGPQP  
VPGEIKYRTCFKTMATVYQEEGILALYKGLLPKIMRLGPGGAVMLLVYEYTYSWLQENW

>sp|A8MYP8|ODF3B\_HUMAN Outer dense fiber protein 3B OS=Homo sapiens GN=ODF3B PE=2 SV=1

MGSDAWVLWRPHRPRGPIAAHYGGPGPKYLPPNTGYALHDPSPRPAPFTFGARFPTQ  
QTTCPGPGHLLVPARMTVRGTDGAPAYSIIYGRPRRSAPFLTPGPGRYFPERAGNATYPSA  
PRHTIAPRNWGVQAEQQSPGPAAYTVPSLLGPRVIGKVSAPTCSIYGRRAAGSFFEDLSK  
TPGPCAYQVVSPPGVYKSRAQFTILARTSLPQDNTRKPGPAAYNVDQHRKPRGWSFGIRH  
SDYLAPLVTADN

>sp|Q02218|ODO1\_HUMAN 2-oxoglutarate dehydrogenase, mitochondrial OS=Homo sapiens GN=OGDH  
PE=1 SV=3

MFHLRTCAAKLRPLTASQTVKTFSQNRPAARTFQQIRCYSAVAAEPFLSGTSSNYVEE  
MYCAWLENPKSVHKSWDIFFRNTNAGAPPGTAYQSPLPLSRGSLAAVAHAQSLVEAQPNV  
DKLVEDHLAVQSLIRAYQIRGHHVAQLDPLGILDADLDSSVPADIISSTDKLGFYGLDES  
DLDKVFHLPTTTFIGGQESALPLREIIRRLEMAYCQHIGVEFMFINDLEQCQWIRQKFET  
PGIMQFTNEEKRTLLARLVRSTRFEEFLQRKWSSEKRFGLGCEVLIPALKTIIDKSEN  
GVDYVIMGMPHRGRLNVLANVIRKELEQIFCQFDSKLEAADEGSGDVKYHLGMYHRRINR  
VTDRNITLSLVANPSHLEAADPVVMGKTKAEQFYCGDTEGKKVMSILLHGDAAFAGQGIV  
YETFHLSDLPSYTHGTVHVVVNNQIGFTTDPRMARSSPYPTDVARVVNAPIFHVNSDDP  
EAVMYVCKVAAEWRSTFHKDQVVDLVCYRRNGHNEMDEPMFTQPLMYKQIRKQKPVQLKY  
AELLVSQGQVNNQPEYEEIISKYDKICEEAFARSKDEKILHIKHWLDSWPFGFTLDGQPR  
SMSCPSTGLTEDILTHIGNVASSVPVENFTIHGGLSRILKTRGEMVKNRTVDWALAEYMA  
FGSLLKEGIHIRLSGQDVERGTFSHRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSL  
SEYGVLFELGFAMASPNAVLWEAQFGDFHNTAQCIIDQFICPGQAKWVRQNGIVLLLP  
HGMEGMGPEHSSARPERFLQMCNDPDLPLKEANFDINQLYDCNWWVVNCSTPGNFFH  
VLRRQILLPFRKPLIIFTPKSLLRHPEARSSFDEMLPGTHFQRVIPEDGPAAQNPENVKR  
LLFCTGKVVYDLTRERKARDMVGGVAITRIEQLSPFPDLLLKEVQKYPNAELAWCQEEH  
KNQGYDYVKPRLRTTISRAPVWYAGRDPAAAPATGNKKTHLTELRLLDTAFDLDFVK  
NFS

>sp|Q96E52|OMA1\_HUMAN Metalloendopeptidase OMA1, mitochondrial OS=Homo sapiens GN=OMA1  
PE=1 SV=1

MSFICGLQSAARNHVFFRFNSLSNWRKCNLTASTSRGCHQVQVNHIVNKYQGLGVNQCDR  
WSFLPGNFHFYSTFNKRTGGLSSTKSKEIWRITSKCTVWNDASFRQLLIKEVTAVPSLS  
VLHPLSPASIRAIRNFHTSPRFQAAVPPLLLMILKPVQKLFATVGRGIRKWWQALPPNK  
KEVVKENIRKNKWLFLGLSSFGLFVVVFYFTHLEVSPITGRSKLLLLGKEQFRLLSELE  
YEAWMEEFKNDMLTEKDARYLAVKEVLCHLIECNKDVPGISQINWVIHVVDSPINAFVL  
PNGQMFVFTGFLNSVTDIHQLSFLLGHEIAHAVLGHAEEKAGMVHLLDFLGMIFLTIWA  
ICPRDSLALLCQWISKLQEYMFNRPYSRKLEAEADKIGLLLAACADIRASSVFWQQM  
EFVDSLHGQPKMPEWLSTHPSHGVRVEYLDRLIPQALKIREMCNCPPLSNPDPRLLFKLS  
TKHFLEESEKEDLNITKKQKMDTLPIQKQEQLPTIYIVEKRTGS

>sp|P23515|OMGP\_HUMAN Oligodendrocyte-myelin glycoprotein OS=Homo sapiens GN=OMG PE=1  
SV=2

MEYQILKMSLCLFILLFLTPGILCICPLQCICTERHRHVDSCGRNLSTLPSGLQENIIHL  
NLSYNHFTDLHNQLTQYTNLRTLDISNNRLESLEPAHLPRSLWNMSAANNIKLLDKSDTA  
YQWNLKYLDVSKNMLEKVVLIKNLTLSLEVLNLSSNKLWTVPTNMPSKLHIVDLSNNSLT  
QILPGTLINLTNLTHLYLHNNKFTFIPDQSFQDLFQLQEITLYNNRWSCDHKNITYLLK  
WMMETKAHVIGTPCSTQISSLEKNMYPTPSGFTSSLFTVSGMQTVDTINLSVVTQPKV  
TKIPKQYRTKETTFGATLSKDTTFTSTDKAFVPYPEDTSTETINSHEAAAATLTIHLQDG  
MVTNTSLTSSTKSPTPMTLSITSGMPNNFSEMPQQSTTLNLWREETTNVKTPLPSVAN  
AWKVNASFLLLLNVVVMLAV

>sp|P47874|OMP\_HUMAN Olfactory marker protein OS=Homo sapiens GN=OMP PE=2 SV=2  
MAEDRPQQPQLDMPLVLDQGLTRQMRLRVESLKQRGEKRQDGEKLLQPAESVYRLNFTQQ  
QRLQFERWNVVLDKPGKVTITGTSQNWTPDLTNLMTRQLLDPTAIFWRKEDSDAIDWNEA

DALEFGERLSDLAKIRKVMYFLVTFGEGVEPANLKASVVFNQL

>sp|POCE72|ONCO\_HUMAN Oncomodulin-1 OS=Homo sapiens GN=OCM PE=1 SV=1

MSITDVL SADDIAAALQECRDPDTFEPQKFFQTSGLSKMSANQVKDVFRFIDNDQSGYLD

EEELKFFLQKFESGARELTESETKSLMAAADNDGDGKIGAEFQEMVHS

>sp|A8MZH6|OOSP1\_HUMAN Putative oocyte-secreted protein 1 homolog OS=Homo sapiens

GN=OOSP1 PE=5 SV=1

MKTILGFKGLFYHLIWTGAGDWSAIQVHCTQFWFFARIKPTIFYNLYVNPDEVFLGDG

CHVTHVLPNVYYE FFYHPHDCGIVTQPLQEVLLKTKIRYISRDSTVRSEMP LSCVVHKQ

KCQ

>sp|Q86WS3|OOSP2\_HUMAN Oocyte-secreted protein 2 OS=Homo sapiens GN=OOSP2 PE=2 SV=1

MALEVLMLLAVLIWTGAENLHVKISCSLDWLMVSVIPVAESRNLYIFADELHLGMGCPAN

RIHTYVYEFYIYLVRCGIRTRVSEETLLFQTELYFTPRNIDHDPQEIHLECSTS RKS VW

LTPVSTENEIKLDPSPFIA DFQTAEELGLSSSPNLL

>sp|Q8NG80|OR2L5\_HUMAN Olfactory receptor 2L5 OS=Homo sapiens GN=OR2L5 PE=3 SV=1

MENYNQTSTDFILLGLFPFSKIGLFLFILFVLI FLMALIGNLSMILLIFLDTHLHTPMYF

LLSQLSLIDLNYISTIVPKMASDFLYGNKSISFIGCGIQSFFFMTFAGAEALLTSMAYD

RYVAICFPLHYPIRMSKRMVLMITGSMIGSINCAHTVYAFRIPYCKSRAINHFFCDV

PAMLTACTDTWVYEYTVFLSSTIFLVFPFTGIACSYGWVLLAVYRMHSAEGRKKAYSTC

STHLTVVTFYYPFAYTYLCPRSLRSLTEDKVLAVFYTILTPMLNPIIYSLRNKEVMGAL

TRVIQNIFSVKM

>sp|Q96R28|OR2M2\_HUMAN Olfactory receptor 2M2 OS=Homo sapiens GN=OR2M2 PE=3 SV=2

MAWENQTFNSDFILLGIFNHSPHTFLFFLVLGIFLVA FMGNSVMVLLIYLD TQLHTPMY

FLLSQLSLMDLMLICTTVPKMAFN YLSGSKSISMAGCVTQIFFYISLSGSECFL LAVMAY

DRYIAICHPLRYTNLMNPKICGLMATFSWILGSTDGIIDAVATFSFSFCGSREIAHFFCE

FPSLLILSCNDTSIFEVIFICCVMLVFPVAIIIASYARVILAVIHMGS GEGRCKAFTT

CSSHLMVVGMYGAALFMYIRPTSDHSPTQDKMVS VFYTILTPMLNPLIYSLRNKEVTRA

FMKILGKGKSESELPHKLYVLLFAKFFFLISIFFYDVKILALIMYIA

>sp|Q8NG81|OR2M7\_HUMAN Olfactory receptor 2M7 OS=Homo sapiens GN=OR2M7 PE=2 SV=1

MAWENQTFNSDFLLLGIFNHSPHTFLFFLVLAIFSVA FMGNSIMVLLIYLD TQLHTPMY

FLLSQLSLMDLMLICTTVPKMAFN YLSGSKSISMAGCATQIFFYISLLGSECFL LAVMSY

DRYTAICHPLRYTNLMRPKICGLMTAFSWILGSTDGIIDAVATFSFSYCGSREIAHFCCD

FPSLLILSCNDTSIFEVIFICCVMLVFPVAIIITSYARVILAVIHMGS GEGRRKAFTT

CSSHLMVVGMYGAGLFMCIQPTSHHSPMQDKMVS VFYTIVTPMLNPLIYSLRNKEVTRA

LMKILGKGKSGD

>sp|Q8NGN8|OR4A4\_HUMAN Putative olfactory receptor 4A4 OS=Homo sapiens GN=OR4A4P PE=5

SV=1

MEPRKNVTDFVLLGFTQNPKEQKVL FVMFLLFYILTMVGNLLIVVT VTVSETLGSPMSFF

LAGLTFIDIIYSSSISPRLISDLFFGNN SISFQSFMQLFIEHLFGGSEVFLLVMAYDR

YVAICKPLHYLVIMRQWVCVLLLVSVWVGFLQSVFQLSIIYGLPFCGPNVIDHFFCDMY

PLLKLACTDTHVIGLLVVANGGLSCTIAFLLLISYGVILHSLKKLSQKGRQKAHSTCSS

HITVVVFFVPCIFM CARPARTFSIDKSVSVFYTVITPMLNPLIYTLRNSEMTS AMKKL

>sp|POC604|OR4A8\_HUMAN Olfactory receptor 4A8 OS=Homo sapiens GN=OR4A8 PE=3 SV=1

MRQNNNITEFVLLGFSQYPDVQNALFVMFLLIYIVTMVGNLLIVVSIIASPFLGSPVYFF

LACLSFIDAVYSTTISPVLIVDLLCDKKTISFPACMGQLFIEHLFGD TDVFLLV MAYDR

YVATCKPLRYLTIMNRQVCILLVVAVTGGFLHSVFQILVVYSLPFCGPNVIYHFFCNIY  
PLLDLECTDTYFVGLAVVFNGGAICMVI FTLLLI SYGVILNSLKTYSPEGRHKAPFICSS  
HFIMVILFFVPCIFLYVRPVSNNFPIDKFLTVFYSVITPKLNPFYMLRNSEMRNAIENLL  
GYQSGKTGFRCSKLN

>sp|Q8NH37|OR4C3\_HUMAN Olfactory receptor 4C3 OS=Homo sapiens GN=OR4C3 PE=2 SV=2  
MDIPQNITEFFMLGLSQNSEVQRVLFVVFLLIYVVTVCGNMLIVVTITSSPTLASPVYFF  
LANLSFIDTFYSSSMAPKLIADSLYEGRTISYECCMAQLFGAHLGGVEIILLTMAYDR  
YVAICKPLHNTTIMTRHLCAMLVGVAWLGGFLHSLVQLLLVLWLPFCGPNVINHFACDLY  
PLLEVACTNTYVIGLLVVANSGLICLLNFLMLAASYIVILYSLRSHSADGRCKALSTCGA  
HFIVVALFFVPCIFTYVHPFSTLPIDKNMALFYGILTPMLNPLIYTLRNEEVKNAMRKLF  
TW

>sp|Q6IEV9|OR4CB\_HUMAN Olfactory receptor 4C11 OS=Homo sapiens GN=OR4C11 PE=2 SV=1  
MQQNSVPEFILLGLTQDPLRQKIVFVIFLIFYMGTVVGNMIIIVTIKSSRTLGSPPMYFF  
LFYLSFADSCFSTSTAPRLIVDALSEKKIITYNECMTQVFALHLFGCMEIFVLILMAVDR  
YVAICKPLRYPTIMSQQVCIIILIVLAWIGSLIHSTAQIILALRLPFCGPYLIDHYCCDLQ  
PLLKLACMDTYMINLLVSNNGAICSSSFMIILISYIVILHSLRNHSAKGGKKALSACTS  
HIIIVILFFGPCIFIYTRPPTTFPMDKMVAVFYTIGTPFLNPLIYTLRNAEVKNAMRKWL  
HGKIISENKG

>sp|Q8NGM1|OR4CF\_HUMAN Olfactory receptor 4C15 OS=Homo sapiens GN=OR4C15 PE=3 SV=1  
MQNQSFVTEFVLLGLSQNPVQEIVFVFLFVYIATVGGNMLIVVTILSSPALLVSPMYF  
FLGFLSFLDACFSSVITPKMIVDSLYVTKTISFEGCMMQLFAEHFFAGVEVIVLTAMAYD  
RYVAICKPLHYSSIMNRRLCGILMGVAWTGGLLHSMIQLFTFQLPFCGPNVINHFMDL  
YPLLEACTDTHIFGLMVVINSGFICII NFSLLLVSYAVILLSLRTHSSEGRWKALSTCG  
SHIAVVILFFVPCIFVYTRPPSAFSLDKMAAIFYIILNPLNPLIYTFRNKEVKQAMRRI  
WNRLMVVSDEKENIKL

>sp|P58180|OR4D2\_HUMAN Olfactory receptor 4D2 OS=Homo sapiens GN=OR4D2 PE=2 SV=1  
METGNLTWVSDFVFLGLSQTRELRQFLFLMFLFVYITVMGNILIIITVTSDSLHTPMY  
FLLRNLAVIDLCFSSVTAPKMLVDLLSEKKTISYQCGMGQIFFHFLGGAMVFVLSVMAF  
DRLIAISRPLRYVTVMNTQLWVGLVVATWVGGFVHSIVQLALMLPLPFCGPNILDNFYCD  
VPQVLR LACTDTSLEFLKISNSGLLDVVWFLLLSYLFILVMLRSHPGEARRKAASTC  
TTHIIVSMIFVPSIYLYARPFTFPMDKLV SIGHTVMT PMLNPMIYTLRNQDMQAAVRR  
LGRHRLV

>sp|Q8NGI6|OR4DA\_HUMAN Olfactory receptor 4D10 OS=Homo sapiens GN=OR4D10 PE=2 SV=1  
MEMENCTRVKEFIFLGLTQNREVSLVFLFLLLVYVTTLGNLLIMVTVTCE SRLHTPMY  
FLLHNL SIADICFSSITVPKVLVDLLSERKTISFNHCFTQMFLFHLIGGVDVFSLSVMAL  
DRYVAISKPLHYATIMSRDHCIGLTVAAWLGGFVHSIVQISLLLPLPFCGPNVLDTFYCD  
VHRVLKLAHTDIFILELLMISNNGLLTTLWFFLLLVSYIVILSLPKSQAGEGRRKAISTC  
TSHITVVTLHFVPCIIYVYARPFTALPMDKAISVTFTVISPLNPLIYTLRNHEMKSAMRR  
LKRRLVPSDRK

>sp|POC645|OR4E1\_HUMAN Olfactory receptor 4E1 OS=Homo sapiens GN=OR4E1 PE=3 SV=1  
MEEAILLNQTSLVTYFRLRGLSVNHKARIAMFSMFLIFYVLTIGNVLIVITIIYDHLH  
TPMYFFLSNLSFIDVCHSTVTPKMLRDVWSEEKLISFDACVTQMFFLHLFACTEIFLLT  
VMAYDRYVAICKPLQYMIVMNWKCVCLLAVALWTGGTIHSIALTSLTIKLPYCGPDEIDN  
FFCDVPQVIKLACIDTPYVLEILIVSNSGLISVVCVVVLVVSAYILVSLRQQISKGKWK

ALSTCAAHLTVVTLFLGHCIFIYSRPSTSLPEDKAVSVFFTAVTPLLNPITYTLRNEEMK  
SALNKLVRKERKEEK

>sp|Q8NGD4|OR4K1\_HUMAN Olfactory receptor 4K1 OS=Homo sapiens GN=OR4K1 PE=2 SV=1  
MAHTNESMVSEFVLLGLSNSWGLQLFFFAIFSIVYVTSVLGNVLIIVIIISFDSLNSPMY  
FLLSNLSFIDICQSNFATPKMLVDFFIERKTISFEGCMAQIFVLHSFVGSEMMLLVAMAY  
DRFIAICKPLHYSTIMNRRLCVIFVSISWAVGVLHVSVHLAFTVDLPFCGPNEVDSFFCD  
LPLVIELACMDTYEMEIMTLTNSGLISLSCFLALIISYTIILIGVRCRSSGSSKALSTL  
TAHITVVILFFGPCIYFYIWPFSRPLVDFKLSVFYTVCTPLLNPITYSLRNEDVKAAMWK  
LRNRHVNSWKN

>sp|Q8NH42|OR4K13\_HUMAN Olfactory receptor 4K13 OS=Homo sapiens GN=OR4K13 PE=3 SV=1  
MERANHSVVSEFILLGLSKSQNLQILFFLGFSVVFVGIVLGNLLILVTFTDSSLHTPMY  
FLLSNLSCIDMILASFATPKMIVDFLRERKTISWWGCYSQMFFMHLLGGSEMMLLVAMAI  
DRYVAICKPLHYMTIMSPRVLTGLLSSYAVGVHSSSQMAFMLTLPFCGPNVIDSFFCD  
LPLVIKLACKDTYILQLLVIADSGLLSLVCFLLLLVSYGVIIFSRYRAASRSSKAFSTL  
SAHITVTLFFAPCVFIYVWPFSSRYSDKILSVFYTIPTPLLNPITYTLRNQEVKAAIKK  
RLCI

>sp|Q8NH21|OR4F5\_HUMAN Olfactory receptor 4F5 OS=Homo sapiens GN=OR4F5 PE=3 SV=1  
MVTEFIFLGLSDSQELQTFLFMLFFVYGGIVFGNLLIVITVSDSHLHSPMYFLLANLS  
LIDLSSLSSVTAPKMITDFFSQRKVISFKGCLVQIFLLHFFGGSEMVILIAMGFDRYIAIC  
KPLHYTTIMCGNACVGIMAVTWIGFLHSVSQLAFVHLLFCGPNEVDSFYCDLPRVIKL  
ACTDTYRLDIMVIANSGLTVCSFVLLIISYTIILMTIQHRPLDKSSKALSTLTAHITVV  
LLFFGPCVFIYAWPFIKSLDKFLAVFYSVITPLLNPITYTLRNKDMKTAIRQLRKWDAH  
SSVKF

>sp|Q8NGD1|OR4N2\_HUMAN Olfactory receptor 4N2 OS=Homo sapiens GN=OR4N2 PE=3 SV=1  
MESENRTVIREFILLGLTQSQDIQLLVFVLVLIIFYFIILPGNFLIIFTIKSDPGLTAPLY  
FFLGNLAFLDASYFIVAPRMLVDFLSAKKIISYRGCTQLFFLHFLGGEGELLLVMAF  
DRYIAICRPLHYPTVMNPRTCYAMMLALWLGGFVHSIIQVVLILRLPFCGPNQLDNFFCD  
VPQVIKLACTDTFVVELLMVFNSGLMTLLCFLGGLASYAVILCRIRGSSSEAKNKAMSTC  
ITHIIVIFFMFGPGIFITYTRPFRAPADKVVSLFHTVIFPLLNPVIYTLRNQEVKASMKK  
VFNKHIA

>sp|Q96R08|OR5B12\_HUMAN Olfactory receptor 5B12 OS=Homo sapiens GN=OR5B12 PE=2 SV=2  
MENNTEVTEFIVGLTDDPELQIPLFIVFLFIYLIITLVGNLGMIELILLDSCLHTPMYFF  
LSNLSLVDFGYSSAVTPKVMVGFLTGDKFILYNACATQFFFFVAFITAESFLLASMAYDR  
YAALCKPLHYTTMTNVCACLAIGSYICGFLNASIHTGNTFRLSFCRSNVVEHFFCDAP  
PLLTLSCDNYISEMVIFVVGFNDFSILVILISYLFIFITIMKMRSPGRQKAFSTCA  
SHLTAVSIFYGTGIFMYLRPNSSHFMGTDKMASVFYAIVPMLNPLVYSLRNKEVKSFAK  
KTVGKAKASIGFIF

>sp|POC626|OR5G3\_HUMAN Olfactory receptor 5G3 OS=Homo sapiens GN=OR5G3 PE=3 SV=1  
MEDKNQTVVTEFLLGLTDHPYQKIVLFFMFLFVYLITLGGNLGMITLIWIDPRLHTPMY  
FFLRHLSFVDICSSSVVPKMLCNIFAEEKDITFLGCAQMWFFGLFEAAECFLAAMAY  
DRYVAICKPLLYTLIMSQQVCMQLVVGOPYAMALISTMTHTIFTFCLPFCGSNIINHFFCD  
IFPLLSLACADTWVNKFVFLVLAGAIGVLSGLIIMVSYICILMTILKIQTADGKQKAFFT  
CFSHLAAVSILYGTFLFIYVRPSSSSSLGIYKVISLFYTVVIPMVNPLIYSLRNKEVKDA  
FRRKIERKKFIIGR



>sp|A6NKK0|OR5H1\_HUMAN Olfactory receptor 5H1 OS=Homo sapiens GN=OR5H1 PE=2 SV=1  
MEEENATLLTEFVLTGFLYQPQWKIPLFLAFLVIYLITIMGNLGLIAVIWKDPHLHIPMY  
LLGNLAFVDAWISSVTVPKMLNFLAKSMISLSECKIQFFSFAISVTTECFLLATMAY  
DRYVAICKPLLYPAIMTNGLCIRLLILSYVGGILHALIHEGFLFRLTFCNSNIVHHIYCD  
TIPLSKISCTDSSINFLMVFI FSGSIQVFSIVTILVSYTFVLFAILKKKSDKGVRKAFST  
CGAHLFSVSLYYGPLLFIYVGPASPQADDQDMVEPLFYTVIIPLLNPIIYSLRNKQVTVS  
FTKMLKKHKVSVY

>sp|Q8NGV7|OR5H2\_HUMAN Olfactory receptor 5H2 OS=Homo sapiens GN=OR5H2 PE=3 SV=3  
MSNEDMEQDNTLLTEFVL TGLTYQPEWKMPFLVFLVIYLITIVWNLGLIALIWNDPQL  
HIPMYFFLGSLAFVDAWISSVTVPKMLVNFLAKNRMISLSECKIQFFSFAFGGTTECFLL  
ATMAYDRYVAICKPLLYPVIMNNSLCIRLLAFSFLGGFLHALIHEVLIFRLTFCNSNIH  
HFYCDIIPLFMISCTDPSINFLMVFILSGSIQVFTIVTVLNSYTFALFTILKKKSVRGVR  
KAFSTCGAHLFSVSLYYGPLIFMYLRPASPQADDQDMIDSVFYTIIPLLNPIIYSLRNK  
QVIDSFTKMVKRNV

>sp|PODN80|OR5H8\_HUMAN Olfactory receptor 5H8 OS=Homo sapiens GN=OR5H8 PE=3 SV=1  
MDDENATLLTEFVL TGLTYQSEWKIPLFLAFLVIYLITIMANLGLIAVIWKDSHLHIPMY  
LFLGSLAFVDAWSSSVTPKMLISFLAKSMIISVSECKIQFFSFGISGTTECFLLATMAY  
DRYVAICKPLLYPVIMTNGLCIWLLVLSFIGGFLHALIHEGILFRLTFCNSNIH HFYCD  
IIPLLKISCTDPSINFLMLFILSGSIQVFTILTVLVSYTFVLFTILKKKAKDIRKAFSTC  
GAHLFSVSLYYGPLLFMVYHPASPQADDQDMVESLFYTVIIPFLNPIIYSLRNKQVIDSL  
TKTLKGNV

>sp|Q8NHB7|OR5K1\_HUMAN Olfactory receptor 5K1 OS=Homo sapiens GN=OR5K1 PE=2 SV=2  
MAEENHTMKNEFILTGT DHPCLKTLLFVVFFAIYLITVGNISLVALIFTHRRLHTPMY  
IFLGNLALVDSCCACAITPKMLENFFSENKRISLYECAVQFYFLCTVETADCFLLAAMAY  
DRYVAICNPLQYHIMMSKKLCIQMTTGAFIAGNLHSMIHVGLVFRVFCGSNHINHFYCD  
ILPLYRLSCVDPYINELVLFIFSGSVQVFTIGSVLISYLYILLTIFKMSKEGRAKAFST  
CASHFLSVSLFYGSLFFMYVRPNLLEEGDKDIPAAILFTIVVPLLNPIIYSLRNREVISV  
LRKILMKK

>sp|A6NET4|OR5K3\_HUMAN Olfactory receptor 5K3 OS=Homo sapiens GN=OR5K3 PE=3 SV=1  
MNKENHSLIAEFILTGT YHPKLKTVLFVVFFAIYLITMVGNIGLVALIYIEQRLHTPMY  
IFLGNLVLMDSCSSAITPKMLENFFSEDKRITLYECMAQFYFLCLAETDCFLLAAMAY  
DCYVAICNPLQYHTMMSKTLCIQMTAGAYLAGNLHPMIEVEFLLRLTFCGSHQINHFCD  
VLPLYRLSCINPYINELVLFILAGSIQIFTIVLVSFYILFTIFTMKSKEGRGKALSTCA  
SHFLSVSIFCDSLLFMYARPGAVNEGDKDIPVAIFYTLVIPLLNPIIYSLRNKEVINIMK  
KIMKKRKFCHILKQMSSPLAT

>sp|Q8NGL0|OR5L2\_HUMAN Olfactory receptor 5L2 OS=Homo sapiens GN=OR5L2 PE=2 SV=1  
MGKENCTVAEFILLGLSDVPEL RVCLFLLFLLIYGVTL LANLGMTALIQVSSRLHTPVY  
FFLSHLSFVDFCYSSIIVPKMLANIFNKDKAISFLGCMVQFYLFCTCGVTEVFLAVMAY  
DRFVAICNPLLYMTMSQKLRLVELTSCCYFCGTVCSLIHSSLALRILFYRSNVINHFCD  
LPPLSLACSDVTVNETLLFLVATL NESVTIMIILTSYLLILTTILKIHSAESRHKAFST  
CASHLTAITVSHGTILYIYCRPSSGNSGVDK VAVTFYTVVIPMLNPLIYSLRNKDVNKA  
LRKVMGSKIHS

>sp|Q8NGP4|OR5M3\_HUMAN Olfactory receptor 5M3 OS=Homo sapiens GN=OR5M3 PE=2 SV=2  
MLNFTDVT EFILLGLTSRREWQVLFII FLVVIITMVGNIGMMVLIKVSPQLNNPMYFF

LSHLSFVDVWFSSNVTPKMLENLLSDKKTITYAGCLVQCFFFIALVHVEIFILAAMAFDR  
YMAIGNPLLYGSKMSRVVCIRLITFPYIYGFLTSLAATLWTYGLYFCGKIEINHFYCADP  
PLIKMACAGTFVKEYTMIILAGINFTYSLTVIIISYLFILIAILMRSAEGRQKAFSTCG  
SHLTAVIIFYGTLIFMYLRRPTEESVEQGKMVAVFYTTVIPMLNPMIYSLRNKDVKKAMM  
KVISRSC

>sp|Q8WZ94|OR5P3\_HUMAN Olfactory receptor 5P3 OS=Homo sapiens GN=OR5P3 PE=2 SV=1  
MGTGNDTTVVEFTLLGLSEDTTVCAILFLVFLGIYVVTLMGNISIIVLIRRSHLHTPMY  
IFLCHLAFVDIGYSSSVTPVMLMSFLRKETSLPVAGCVAQLCSVVTFGTAECFLLAAMAY  
DRYVAICSPLLYSTCMSPGVCIILVGMSYLGCVNAWTFIGCLLRSLFCGPNKVNHFCD  
YSPLLKLACSHDFTFEIIPAISSGSIIIVATVCVIAISYIYILITILKMSTKGRHKAFST  
CTSHLTAVTLFYGTITFIYVMPKSSYSTDQNKVVSFYTIVIPMLNPLIYSLRNKEIKGA  
LKRELRIKIFS

>sp|Q8NGG2|OR5T2\_HUMAN Olfactory receptor 5T2 OS=Homo sapiens GN=OR5T2 PE=2 SV=3  
MSYSIYKSTVNIPLSHGVVHSFCHNMNCNFMHIFKFVLDNFMKNVTEVTLFVLKGFDTNL  
ELQTIFFFLFLAIYLFITLMGNLGLLVIRDSQLHKPMYYFLSMLSSVDACYSSVITPNM  
LVDFTTKNKVISFLGCVAQVFLACSFGTTECFLLAAMAYDRYVAIYNPLLYSVSMSPRVY  
MPLINASYVAGILHATIHTVATFSLSFCGANEIRRVCDDIPPLAISYSDTHTNQLLLFY  
FVGSIELVTILIVLISYGLILLAILKMYSAEGRRKVFSTCGAHLTGVSIIYGTILFMYVR  
PSSSYASDHDMIVSIFYTIVIPLLNPVIYSLRNKDVKDSMKKMFGKNQVINKVYFHTKK

>sp|Q9UGF6|OR5V1\_HUMAN Olfactory receptor 5V1 OS=Homo sapiens GN=OR5V1 PE=2 SV=1  
MERKNQTAITEFIILGFSNLNELQFLLFTIFFLTYFCTLGGNIIILTTVTDPHLHTPMY  
YFLGNLAFIDICYTTSNVPQMMVHLLSKKKSISYVGCVVQLFAFVFFVGSECLLAAMAY  
DRYIAICNPLRYSVILSKVLCNQLAASCWAAGFLNSVVHTVLTFCLPFCGNNQINYYFCD  
IPPLLILSCGNTSVNELALLSTGVFIGWTPFLCIVLSYICIIISTILRIQSSEGRRKAFST  
CASHLAIVFLFYGSAIFTYVRPISTYSLKKDRLVSVLVSVVTMPLNPIIYTLRNKDIKEA  
VKTIGSKWQPPISSLDSKLT

>sp|Q96RD1|OR6C1\_HUMAN Olfactory receptor 6C1 OS=Homo sapiens GN=OR6C1 PE=2 SV=2  
MRNHTTEITEFILLGLTDDPNFQVVFVFLITYMLSITGNLTLITITLLDSHLQTPMYFF  
LRNFSILEISFTTVSIPKFLGNIISGDKTISFNNCIVQLFFFILLGVTEFYLLAAMSADR  
YVAICKPLHCLSIMNRRVCTLLVFTSWLVSFLIIFPALMLLLKLHYCRSNIIDHFTCDYF  
PLLQLACSDTKFLEVMGFSCAAFTLMFTLALIFLSYIYIIRTILRIPSTSQRKAFSTCS  
SHMVVVSISYGSICFMYIKPSAKDRVSLSKGVAILNTSVAPMMNPFYSLRNQQVKQAFI  
NMARKTVFFTST

>sp|Q8NGZ6|OR6F1\_HUMAN Olfactory receptor 6F1 OS=Homo sapiens GN=OR6F1 PE=2 SV=1  
MDTGKTLPLQDFLLGFPQSQTQLQLSLFMLFLVMIYILTVSGNVAILMLVSTSHQLHTPMY  
FFLSNLSFLEIWTAAVPKALAILLGRSQTISFTSCLLQMYFVFSLGCTEYFLLAAMAY  
DRCLAICYPLHYGAIMSSLLSAQLALGSWVCGFVAIAVPTALISGLSFCGPRAINHFCD  
IAPWIALACTNTQAVELVAFVIAVVVILSSCLITFVSYYVYIISTILRIPSASGRSKAFST  
CSSHLTVVLIWYGSTVFLHVRTSIKDALDLIKAVHVLNTVVPVLNPFYTLRNKEVRET  
LLKKWKKG

>sp|Q8NG99|OR7G2\_HUMAN Olfactory receptor 7G2 OS=Homo sapiens GN=OR7G2 PE=3 SV=1  
MEARNQTAISKFLLGLIEDPELQPVLFSLFSLMYLVITILGNLILLAVISDSHLHTPMY  
FFLSNLSFLDICLSTTTIPKMLVNIQAQNRSITYSGCLTQICFVLFFAGLENCLLAAMAY  
DRYVAICHPLRYTVIMNPRLCGLLILLSLLTSVVNALLLSLMVLRLSFCTDLEIPLFFCE

LAQVIQLTCSDTLINNILIYFAACIFGGVPLSGIILSYTQITSCVLRMPASGKHKAVST  
CGSHLSIVLLFYGAGLGVYISSVVTDSRKTAVASVMYSVFPQMVNPFYISLRNKDMKGT  
LRKFIGRIPSLLWCAICFGFRFLE

>sp|Q96RD0|OR8B2\_HUMAN Olfactory receptor 8B2 OS=Homo sapiens GN=OR8B2 PE=3 SV=3  
MLARNNSLVTEFILAGLTDHPEFRQLPFLFLVIYIVTMVGNLGLITLFGNLNSHLHTPMY  
YFLFNLSFIDLCSYSSVFTPKMLMNFVSKKNIISNVGCMTRLFFFLFFVISECYMLTSMAY  
DRYVAICNPILLYKVTMSHQVCSMLTFAAYIMGLAGATAHTGCMLRLTFCSANIINHLYCD  
ILPLLQLSCTSTYVNEVVVLIVVGTNITVPSTILISYVFIVTSILHIKSTQGRSKAFST  
CSSHVIALSLFFGSAAFMYIKYSSGSMEQGVSSVFYTNVVPMLNPLIYSLRNKDVKVAL  
RKALIKIQRRNIF

>sp|Q96RC9|OR8B4\_HUMAN Olfactory receptor 8B4 OS=Homo sapiens GN=OR8B4 PE=2 SV=2  
MTLRNSSSVTEFILVGLSEPELQLPLFLLFLGIYVFTVGNLGLITLIGINPSLHTPMY  
FFLNLFSIDLCSYSCVFTPKMLNDFVSEIISYVGCMTQLFFFCFFVNSECYVLVSMAYD  
RYVAICNPILLYMVTMSPRVCFLMFGSYVVGAFAGAMAHTGSMLRLTFCDSNVIDHYLCDV  
LPLLQLSCTSTHVSELVFFIVGVITMLSSISIVISYALILSNILCIPSAEGRSKAFSTW  
GSHIIAVALFFGSGTFTYLTTSFPGSMNHGRFASVFYTNVVPMLNPSIYSLRNKDDKLAL  
GKTLKRVL

>sp|Q15620|OR8B8\_HUMAN Olfactory receptor 8B8 OS=Homo sapiens GN=OR8B8 PE=2 SV=2  
MAAENSSVFTQFILAGLTDQPGVQIPLFLLFLGFYVVTVGNLGLITLIRLNSHLHTPMY  
FFLYNLSFIDFCYSSVITPKMLMSFVLKKNISYAGCMTQLFFFLFFVSESFILSAMAY  
DRYVAICNPILLYMVTMSPVQVCFLLLLGVYGMGFAGAMAHTACMMGVTFCANLNVHYMCD  
ILPLLECACTSTYVNELVVFVVVGIDIGVPTVTIFISYALILSSIFHIDSTEGRSKAFST  
CSSHIIAVSLFFGSGAFMYLKPFSLLAMNQGVSSLFYTTVVPMLNPLIYSLRNKDVKVA  
LKKILNKNAFS

>sp|Q8NH51|OR8K3\_HUMAN Olfactory receptor 8K3 OS=Homo sapiens GN=OR8K3 PE=3 SV=1  
MEQHNLTTVNEFILTGITDIAELQAPLFAFLMIYVISVMGNLGMIVLTKLDSRLQTPMY  
FFLRHLAFMDLGYSTTVGPKMLNVFVVDKNIISYFFCATQLAFFLVFIGSELFILSAMS  
DLYVAICNPILLYTVMSRRVCQVLAIPYLYCTFISLLVTIKIFTLSFCGYNVISHFYCD  
SLPLLPLCSNTHIELIILIFAAIDLISLLIVLLSYLLILVAILRMNSAGRQKAFSTC  
GAHLTVVIVFYGTLLFMVYQPKSSHSDTDKVASIFYTLVIPMLNPLIYSLRNKDVKYAL  
RRTWNNLCNIFV

>sp|Q8NGQ1|OR9G4\_HUMAN Olfactory receptor 9G4 OS=Homo sapiens GN=OR9G4 PE=3 SV=2  
MIFPSHDSQAFTSVDMEVGNTILTEFILLGFSADSQWQPILFGVFLMLYLITLSGNMTL  
VILIRTDShLHTPMYFFIGNLSFLDFWYTSVYTPKILASCVSEDKRISLAGCGAQLFFSC  
VVAYTECYLLAAMAYDRHAAICNPILLYSGTMSTALCTGLVAGSYIGGFLNAIAHTANTFR  
LHFCGKNIIDHFFCDAPPLVKMSCTNTRVYEKVLGGVVGFTVLSSILAILISYVNILLAI  
LRIHSASGRHKAFSTCASHLISVMLFYGSLLFMYSRPSSTYSLERDKVAALFYTVINPLL  
NPLIYSLRNKDIKEAFRKATQTIQPQT

>sp|POC7N8|OR9G9\_HUMAN Olfactory receptor 9G9 OS=Homo sapiens GN=OR9G9 PE=3 SV=1  
MQRSNHTVTEFILLGFTTDPGMQLGLFVVFLGVYSLTVGNSTLIVLICNDShLHTPMYF  
VVGNSFLDLWYSSVYTPKILVICISEDKSIISFAGCLCQFFFSAGLAYSECCLAAMAYD  
RYVAISKPLLYAQMSIKLCALLVAVSYCGGFINSIIITKKTFSNFCCENIIDDFCDL  
LPLVLACGEKGCYKFLMYFLLASNVICPAVLILASYLFIITSVLRISSSQGRLKAFSTC  
SSHLTSVTLYYGSILYIYALPRSSYSFDMDKIVSTFYTEVLPMLNPMIYSLRNKDVKEAL

KKLLP

>sp|Q8NGE7|OR9K2\_HUMAN Olfactory receptor 9K2 OS=Homo sapiens GN=OR9K2 PE=2 SV=2

MLGSKPRVHLYILPCASQQVSTMGDRGTSNHSEMTDFILAGFRVRPELHILLFLLFLFVY  
AMILLGNVGMMTIIMTDPRLNTPMYFFLGNSFIDLFYSSVIEPKAMINFWSENKSISFA  
GCVAQLFLFALLIVTEGFLLAAMAYDRFIAICNPLLYSVQMSTRCTQLVAGSYFCGCIS  
SVIQTSMTFTLSFCASRAVDHFYCDRPLQRLSCSDFIHRMISFSLSCIIILPTIIVII  
VSYMYIVSTVLKIHSTEGHKKAFSTCSSHLGVVSVLYGAVFFMYLTPDRFPELSKVASLC  
YSLVTPMLNPLIYSLRNKDVQEALKKFLEKKNIIIL

>sp|Q8NGQ5|OR9Q1\_HUMAN Olfactory receptor 9Q1 OS=Homo sapiens GN=OR9Q1 PE=2 SV=1

MAEMNLTLVTEFLLIATFEYPEWALPLFLLFLFMYLITVLGNLEMIILIMDHQLHAPMY  
FLLSHLAFMDVCYSSAITVPMQLAVLLEHGAALSYTRCAAQFFLFTFFGSIDCYLLALMAY  
DRYLAVCQPLLYVTILTQQARLSLVAGAYVAGLISALVRTVSAFTLSFCGTSEIDFIFCD  
LPPLLKLTGGSYEQEVLIIMFAIFVIPASMVVILVSYLFIIVAIMGIPAGSQAKTFSTC  
TSHLTAVSLFFGTILFMYLRGNSDQSSEKNRVSVLYTEVIPMLNPLIYSLRNKEVKEAL  
RKILNRAKLS

>sp|Q8NGE9|OR9Q2\_HUMAN Olfactory receptor 9Q2 OS=Homo sapiens GN=OR9Q2 PE=3 SV=1

MAERNYTVVTEFFLTAFTEHLQWRVPLFLIFLSFYLATMLGNTGMILLIRGDRRLHTPMY  
FFLSHLSLVDICYSSAIIPQMLAVLWEHGTISQARCAAQFFLFTFFASIDCYLLAIMAY  
DRYTAVCQPLLYVTIITEKARWGLVTGAYVAGFFSAFVRTVTAFTLSFCGNNEINFIFCD  
LPPLLKLSGDSYEQEVIIIVFALFVMPACILVILVSYLFIIVAILQIHSAGGRAKTFST  
CASHLTAVALFFGTILFMYLRDNTGQSSEGDVSVLYTVVTPMLNPLIYSLRNKEVKEA  
TRKALSKSKPARRP

>sp|Q9POS3|ORML1\_HUMAN ORM1-like protein 1 OS=Homo sapiens GN=ORMDL1 PE=1 SV=1

MNVGVAHSEVNPNTVMNSRGMWLTALGVGLLHIVLLSIPFFSVPAWTLTNIHNLGM  
YVFLHAVKGTPFETPDQGKARLLTHWEQLDYGVTSSSRKFFTISPIILYFLASFYTKYD  
PTHFILNTASLLSVLIPKMPQLHGVRIFGINKY

>sp|Q8WVJ2|NUDC2\_HUMAN NudC domain-containing protein 2 OS=Homo sapiens GN=NUDCD2 PE=1  
SV=1

MSAPFEERSGVVPCGTPWGQWYQTLEEVFIEVQVPPGTRAQDIQCGLQSRHVALSVGGRE  
ILKGKLFDSSTIADEGTWTLEDKRMVRIVLTKTKRDAANCWTSLESEYAADPWVQDQMQR  
KLTLERFQKENPGFDFSGAEISGNYTKGGPDFSNLEK

>sp|Q8N1F7|NUP93\_HUMAN Nuclear pore complex protein Nup93 OS=Homo sapiens GN=NUP93 PE=1  
SV=2

MDTEGFGELLQQAELAAETEGISELPHVERNLEIQQAGERLRSRTLRTSQETADVKA  
SVLLGSRGLDISHISQRLESLSAATTFEPELPVKDTDIQGFLKNEKNALLSAIEESRKR  
TFGMAEEYHRESMLVEWEQVKRILHTLLASGEDALDFTQESEPSYISDVGPGRSSLDN  
IEMAYARQIYIYNEKIVNGHLQPNLVDLCASVAELDDKSISDMWTMVKQMTDVLLTPATD  
ALKNRSSVEVRMEFVRQALAYLEQSYKNYTLTVFGNLHQAQLGGVPGTYQLVRSFLNIK  
LPAPLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEFKTWFEYMNSKD  
RRLSPATENKRLRLHYRRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQ  
VCFDDDGTSPPQDRLTSLQFQKQLLEDYGESHFTVNQQPFLYFQVLFLLTAQFEAAVAFLF  
RMERLRCHAVHVALVLFELKLLKSSGQSAQLLSHEPGDPPCLRLNFVRLMLYTRKFE  
STDPREALQYFYFLRDEKDSQGENMFLRCVSELVIESREFDMILGKLENDGSRKPGVIDK  
FTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLLSPVVPQISAPQSNK

ERLKNMALSIAERYRAQGISANKFVDSTFYLLDLITFFDEYHSGHIDRAFDIIERLKL  
VLNQSVEERVAAFRNFSEIRHNLSEVLLATMNILFTQFKRLKGTSPSSSRPQRVIED  
RDSQLRSQARTLITFAGMIPYRTSGDTNARLVQMEVLMN

>sp|P52948|NUP98\_HUMAN Nuclear pore complex protein Nup98-Nup96 OS=Homo sapiens GN=NUP98  
PE=1 SV=4

MFNKSFGTPFGGGTGGFGTTSTFGQNTGFGTSSGGAFGTSAFGSSNNTGGLFGNSQTKPG  
GLFGTSSFSQPATSTSTGFGGTSTGTANTLFGTASTGTSLSFSSQNNAFQNKPTGFGNF  
GTSTSSGGLFGTTNTSNPFGSTSGSLFGPSSFTAAPTGTTIKFNPTGTDTMVKAGVST  
NISTKHQCITAMKEYESKSLEELRELYQANRKGPNQVAGAGTTTGLFGSSPATSSATGL  
FSSSTNSGFAYGQNKTAFGTSTTGFGTNPGLFGQNNQTTSLFSKPFQATTQTNTGF  
SFGNTSTIGQPSTNTMGLFGVTQASQPGGLFGTATNTSTGTAFGTGTGLFGQNTGFGAV  
GSTLFGNNKLTTFGSSTTSAPSFGTSSGGLFGNKPTLTLTNTNTSNFGFGTNTSGNSIF  
GSKPAPGTLGTGLGAGFGTALGAGQASLFGNNQPKIGGPLGTGAFGAPGFNTTTATLGFG  
APQAPVALTDPNAAAQAVLQQHINSLTYPFGDSPLFRNPMSPDKKKEERLKPTNPAA  
QKALTPTHYKLTTPRATRVPRKALQTTGTAKSHLFDGLDDDEPSLANGAFMPKKSIIKKL  
VLKNLNNLSPVNRDSENLASPEYPENGERFSFLSKPVDENHQDGEDSLVSHFYT  
NPIAKPIPTPESAGNKHSNSNSVDDTIVALNMRAALRNGLEGSSEETSFHDESLQDDRE  
EIENNSYHMPAGIILTKVGYTIPSMDDLAKITNEKGEIVSDFTIGRKGYGSIYFEGD  
VNLTNLNLDDIVHIRKEVVVYLDNQQPPVGEGLNRKAEVTLDGWPTDKTSRCLIKSP  
DRLADINYEGRLEAVSRKQGAQFKEYRPETGSWVFKVSHFSKYGLQDSDEEEHPSKTS  
TKKLTAPLPASQTTPQLMALNGKPAPPPQSQSPEVEQLGRVVELSDMVDITQEPVLD  
TMLEESMPEDQEPVSASTHIASSLGINPHVLQIMKASLLTDEEDVDMALDQRFSLPSKA  
DTSQEICSPRLPISASHSKTRSLVGGLLQSKFTSGAFLSPSVSVQECRTPRAASLMNIP  
STSSWSVPPPLTSVFTMPSPAPEVPLKTVGTRRQLGLVPREKSVTYGKGKLLMDMALFMG  
RSFRVWGPNWTLANSGEQLNGSHELENHQIADSMFGLPNPVAVKPLTESPFKVHLEK  
LSLRQRKPDDEMKLYQTPLELKLKHSVHVDELCPILVNLGVAVIHDYADWVKEASGDL  
PEAQIVKHWSLTWTLCEALWHLKELDSQLNEPREYIQLERRRAFSRWLSCTATPQIEE  
EVSLTQKNSPVEAVFSYLTGKRISACSLAQSGDHLALLLSQFVGSQSVRELLTMQLV  
DWHQLQADSFQDERLRIFALLAGKPVWQLSEKKQINVCSQLDWKRLAIHLWYLLPPTA  
SISRALSMYEEAFQNTSDSDRYACSPLSYLEGSGCVIAEEQNSQTPLRDVCFHLLKLYS  
DRHYDLNQLLEPRISITADPLDYRLSWHLWEVLRALNYTHLSAQCEGLVQASYAGQLESEG  
LWEWAI FVLLHIDNSGIREKAVRELLTRHCQLETPESWAKETFLTQKL RVPKWIHEAK  
AVRAHMESDKHLEALCLFKAHWNRCHKLIIRHLASDAIINENYDYLKGFLDLAPPERS  
SLIQDWETSGLVYLDYIRVIEMLRHIQQVDCSGNDLEQLHIKVTSLCSRIEQIQCYSAKD  
RLAQSDMAKRVANLLRVVLSLHPPDRTSDSTPDPQRVPLRLAPHIGRLPMPEDYAMDE  
LRSLTQSYLRELAVGSL

>sp|Q8N323|NXPE1\_HUMAN NXPE family member 1 OS=Homo sapiens GN=NXPE1 PE=2 SV=2

MSSNTMLQKTLILISFSVVTWMIFIISQNF TKLSALNLSISVHYWNNSAKSLFPKTS  
L IPLKPLTETELRIKEIEKLDQQIPRPFTHVNTTTSATHSTATILNPRDTYCRGDQLDI  
LLEVRDHLGQRKQYGGDFLRARMSSPALTAGASGKVMDFNNGTYLVSFTLFWEGQVSLSL  
LLIHPSEGASALWRARNQGYDKIIFKGK FVNGTSHVFTECGLTLNSNAELCEYLD DRDQE  
AFYCMKPQHMPCEALTYMTRNREVS YLTDKENS L FHRSKVGVEMMKDRKHIDVTNCNKR  
EKIEETCQVGMKPPVPGGYTLQGWITTF CNQVQLDTIKINGCLKGKLIYLLGDSTLRQW  
IYYFPKVVKTLKFFDLHETGIFKKHLLDAERHTQIQWKKHSYPFVTFQLYSLIDHDYIP

REIDRLSGDKNTAIVITFGQHFRFPIDIFIRRAIGVQKAIERLFLRSPATKVI IKTENI  
REMHIETERFGDFHGYIHYLIMKDIFKDLNVGIIDAWDMTIAYGTDTHPPDHVIGNQIN  
MFLNYIC

>sp|Q8NH74|O10A6\_HUMAN Olfactory receptor 10A6 OS=Homo sapiens GN=OR10A6 PE=3 SV=1  
MERQNNQSCVVEFILLGFSNYPELQGQLFVAFLVIYLVTLIGNAIIIVIVSLDQSLHVPMY  
LFLNLSSVVDLSFSAVIMPEMLVVLSTEKTTISFGGCAQMYFILLFGGAECFLLGAMAY  
DRFAAICHPLNYQMIMNKGVMKLIIFSWALGFMLGTVQTSWVSSFPFCGLNEINHISCE  
TPAVLELACADTFLFEIYAFTGTFLIILVPFLLILLSYIRVLFAILKMPSTTGRQKAFST  
CAAHLTSVTLFYGTASMTYLQPKSGYSPETKKVMSLSYSLLTPLLNLIIYSLRNSEMKRA  
LMKLWRRRVVLHTI

>sp|Q9Y4A9|O10H1\_HUMAN Olfactory receptor 10H1 OS=Homo sapiens GN=OR10H1 PE=2 SV=1  
MQRANHSTVTQFILVGFSVFPHLQLMLFLLFLLMYLFTLLGNLLIMATVWSERSLHTPMY  
LFLCALSVSEILYTVAIIPRMLADLLSTQRSIAFLACASQMFFSFSFGFTHSFLLTVMGY  
DRYVAICHPLRYNVLMSPRGACLVGCSWAGGLVMGMVVTSAIFHLAFCGHKEIHFFACH  
VPPLLKLACGDDVLVAKGVLCITALLGCFLILLSYAFIVAAILKIPSAEGRNKAFS  
TCASHLTVVVVHYGFASVIYLPKSPQSLEGDTLMGITYTVLTPFLSPIIFSLRNKELKV  
AMKKTFFSKLYPEKNVMM

>sp|Q8NGA5|O10H4\_HUMAN Olfactory receptor 10H4 OS=Homo sapiens GN=OR10H4 PE=3 SV=1  
MPSQNYSIIEFNLFGFSAFPQHLLPILFLLYLLMFLFTLLGNLLIMATIWIHRLHTPM  
YLFLCTLSVSEILFTVAITPRMLADLLSTHHSITFVACANQMFFSFMFGFTHSFLLLVMG  
YDRYVAICHPLRYNVLMSPRDCALHVACTWAGGSVMGMMVTTIVFHLTFCGSNVIHFFFC  
HVLSSLKLACENKTSSVIMGVMLVCVTALIGCLFLIILSYVFIVAAILRIPSAEGRHKTF  
STCVSHLTVVVVTHYSFASFIYLPKGLHSMYSDALMATYTVFTPFLSPIIFSLRNKELK  
NAINKNFYRKFCPPSS

>sp|Q8NGA6|O10H5\_HUMAN Olfactory receptor 10H5 OS=Homo sapiens GN=OR10H5 PE=2 SV=1  
MQGLNHTSVSEFILVGFSAFPQLMLFLLFLLMYLFTLLGNLLIMATVWSERSLHMPMY  
LFLCALSITEILYTVAIIPRMLADLLSTQRSIAFLACASQMFFSFSFGFTHSFLLTVMGY  
DRYVAICHPLRYNVLMSLRGCTCRVGCSWAGGLVMGMVVTSAIFHLAFCGHKEIHFFFC  
VPPLLKLACGDDVLVAKGVLCITALLGCFLILLSYAFIVAAILKIPSAEGRNKAFS  
TCASHLTVVVVHYGFASVIYLPKGPQSPEGDTLMGITYTVLTPFLSPIIFSLRNKELKV  
AMKKTCTKFLFPQNC

>sp|Q5JRS4|O10J3\_HUMAN Olfactory receptor 10J3 OS=Homo sapiens GN=OR10J3 PE=3 SV=1  
MPKLNSTFVTEFLFEGFSSFRQHKLVFFVVFVLTLYLLTSGNVIIMTIIRLDHHLHTPM  
YFFLCMLSISETCYTVAIIPHMLSGLLNPHQPIATQSCATQLFFYLTFGINNCFLLTVMG  
YDRYVAICNPLRYSVIMGRACIQLASGSLGIGLMAIVQTSVFGLPFCDAFVISHFFC  
DVRHLLKLACTDTTVNEIINFVSVCVLVLPMLGVFISYVLIISTILKIASAEGQKKAF  
TCASHLTVVIIHYGCASIIYLPKPSQSSLGQDRLISVTTYTHHSPTECCVQPEEQGGQRC  
SAQSRGAKNSVSLMKRGCEGFSFAFINMY

>sp|Q8NHC4|O10J5\_HUMAN Olfactory receptor 10J5 OS=Homo sapiens GN=OR10J5 PE=2 SV=1  
MKRKNFTEVSEFIFLGFSSFGKHQITLFVVFLTYYILTLVANIIIVTIIICIDHHLHTPMY  
FFLSMLASSETVYTLVIVPRMLLSLIFHNQPISLAGCATQMFFFVILATNNCFLLTAMGY  
DRYVAICRPLRYTVIMSKGLCAQLVCGSFGIGLTMAVLHVTAMFNLPCGTVDHFFCDI  
YPVMKLSCIDTTINEIINYGVSSFVIFVPIGLIFISYVLVISSILQIASAEGRKKTATC  
VSHLTVVIVHGCASIAYLKPKSESSIEKDLVLSVTTYTIITPLLNPVVYSLRNKEVKDAL

CRVVGRNIS

>sp|Q8NGX5|O10K1\_HUMAN Olfactory receptor 10K1 OS=Homo sapiens GN=OR10K1 PE=2 SV=1  
MEQVNKTVVREFVVLGFSSLARLQQLLFVIFLLLYLFTLGTNAIIISTIVLDRALHTPMY  
FFLAILSCSEICYTFVIVPKMLVDLLSQKKTISFLGCAIQMFSFLFFGSSHSFLLAAMGY  
DRYMAICNPLRYSVLMGHGVCMGLMAAACACGFTVSLVTTSLVFHLPFHSSNQLHHFFCD  
ISPVLKLASQHSQFSQLVIFMLGVFALVIPLLLILVSYIRIISAILKIPSSVGRYKTFST  
CASHLIVVTVHYSCASFIYLRPKNTYTSSQDTLISVSYTILTPLFNPMIYSLRNKEFKSA  
LRRTIGQTFYPLS

>sp|Q8NGE3|O10P1\_HUMAN Olfactory receptor 10P1 OS=Homo sapiens GN=OR10P1 PE=2 SV=1  
MAGENHTTLPEFLLLGFSCLKALQGFLFWVVLVYLVTLGNLSLIILLTQVSPALHSPMY  
FFLRQLSVVELFYTTDIVPRTLANLGSPHPQAISFQGCAQMYVFIVLGISECCLLTAMA  
YDRYVAICQPLRYSTLLSPRACMAMVGTSWLTGIIATTHASLIFSLPFRSHPIIPHFLC  
DILPVLRLASAGKHRSEISVMTATIVFIMIPFSLIVTSYIRILGAILAMASTQSRRKVFS  
TCSSHLLVVSFFGTASITYIRPQAGSSVTTDRVLSLFYTVITPMLNPIIYTLRNKDVRR  
ALRHLVKRQRPSP

>sp|Q8NGN2|O10S1\_HUMAN Olfactory receptor 10S1 OS=Homo sapiens GN=OR10S1 PE=2 SV=2  
MTRSRSVCEKMTMTTENPNQTVVSHFFLEGLRYTAKHSSLFLLFLLIYSITVAGNLLILL  
TVGSDSHLSLPMYHFLGHLDFLDACLSTVTPKVMAGLLTLDGKVISFEGCAVQLYCFHF  
LASTECFLYTMAYDRYLAICQPLHYPVAMNRRMCAEMAGITWAIGATHAAIHTSLTFRL  
LYCGPCHIAFFCDIPPVLKLACTDTTINELVMLASIGIVAAGCLILIVISYIFIVAAVL  
RIRTAQGRQRAFSPCTAQLTGVLVYVPPVCIYLPQRSSEAGAGAPAVFYTIVTPMLNPF  
IYTLRNKEVKHALQRLLCSSFRETAGSPPP

>sp|Q8NGX3|O10T2\_HUMAN Olfactory receptor 10T2 OS=Homo sapiens GN=OR10T2 PE=3 SV=1  
MRGFNKTTVVTQFILVGFSSLGELQLLLFVIFLLLYLTILVANVTIMAVIRFSWTLHTPM  
YGFLFILSFSESCYTFVIIIPQLLVHLLSDTKTISFMACATQLFFFLGFACTNCLLIAMVG  
YDRYVAICHPLRYTLIINKRLGLELISLSGATGFFIALVATNLICDMRFCGPNRVNHYFC  
DMPVVIKLACTDTHVKELALFSLVIMVPFLLILISYGFIVNTILKIPSAEGKAFVT  
CASHLTVVFVHYGCASIIYLRPKSKSASDKDQLVAVTYTVVTPLLNPLVYSLRNKEVKTA  
LKRVLGMPVATKMS

>sp|Q8NH07|O11H2\_HUMAN Olfactory receptor 11H2 OS=Homo sapiens GN=OR11H2 PE=3 SV=1  
MCPLTLHVTGLMNVSEPNSSFAFVNEFILQGFSCWTIQIFLFSLFTTIYALTITNGAI  
AFVLWCDRRLHTPMYMLGNFSFLEIYWVSSTVPKMLVNLSEKKNISFAGCFLQFYFFF  
SLGTSECLLLTVMAFDQYLAICRPLLYPNIMTGHLAKLVILCWVCGFLWFLIPIVLISQ  
KPF CGPNIIDHVCDPGPLFALDCVSAPRIQLFCYTLSSLVIFGNFLFIIGSYTLVLKAV  
LGMPSSSTGRHKAFSTCGSHLAVVSLCYSPLMVYVSPGLGHSTGMQKIETLFYAMVTPLF  
NPLIYSLQNKEIKAALRKVLGSSNII

>sp|B2RN74|O11HC\_HUMAN Olfactory receptor 11H12 OS=Homo sapiens GN=OR11H12 PE=2 SV=1  
MCPLTLQVTGLMNVSEPNSSFAFVNEFILQGFTCEWTIQIFLFSLFTTTIYALTITNGAI  
AFVLWCDWRLHTPMYMLGNFSFLEIYWVSSTVPKMLVNLSEKKNISFAGCFLQFYFFF  
SLGTSECLLLTVMAFDQYLAICRPLLYPNIMTGHLCAKLVILCWVCGFLWFLIPIVLISQ  
MPFCGPNIIDHVCDPGPRFALDCVSAPRIQLFCYTLSSLVIFGNFLFIIGSYTLVLKAV  
LGMPSSSTGRHKAFSTCGSHLAVVSLCYSSLVMYVSPGLGHSTGMQKIETLFYAMVTPLF  
NPLIYSLQNKEIKAALRKVLGSSNII

>sp|Q16625|OCLN\_HUMAN Occludin OS=Homo sapiens GN=OCLN PE=1 SV=1

MSSRPLESPPPYRPDEFKPNHYAPSNDIYGGEMHVRPMLSQPAYSFYPEDEILHFYKWTSPPGVIRILSMLIIVMCIAIFACVASTLAWDRGYGTSLLGGSVGYPYGGSGFGSYGSGYGYGYGYGYGGYTDPRAAKGFM LamaAFCFIAALVIFVTSVIRSEMSRTRRYLSVIIVSAILGIMVFIATIVYIMGVNPTAQSSGSLYGSQIYALCNQFYTPAATGLYVDQYLYHYCVVDPQEAIAIVLGFMIIVAFALIIFFAVKTRRKMDRYDKSNILWDKEHIYDEQPPNVEEWKNVSAGTQDVPSPPSDYVERVDSPMAYSSNGKVNDKRFYPESYKSTPVPEVVQELPLTSPVDDFRQPRYSSGGNFETPSKRAPAKGRAGRSKRTQDHYETDYTTGGESCDELEEDWIREYPPITSDQQRQLYKRNFTGLQEYKSLQSELDEINKELSRDKELDDYREESEEYMAAADEYNRLKQVKGSA DYKSKNHCKQLKSKLSHIKKMVG DYDRQKT

>sp|Q3SX64|OD3L2\_HUMAN Outer dense fiber protein 3-like protein 2 OS=Homo sapiens GN=ODF3L2 PE=1 SV=2

MGTLSCDSTPRLATAPLGRRVTEGQIPETGLRKSCGTATLENGSGPGLYVLPSTVGFINH DCTRVASPAYSLVRRPSEAPPQDTSPGPIYFLDPKVTRFGRSCTPAYSMQGRAKSRGPEVTPGPGAYSPEKVPVVRHRTPPAFTLGCRPLKPLDTSAPAPNAYTMPPLWGSQIFTKPSSPSYTVVGRTPPARPPQDPAEIPGPGQYDSPDANTYRQRLPAFTMLGRPRAPRPLEETPGPGAHCPEQVTVNKARAPAFSMGIRHSKRASMAATTPSRPAGHRLPGRCC

>sp|P12694|ODBA\_HUMAN 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial OS=Homo sapiens GN=BCKDHA PE=1 SV=2

MAVAIAAAARVWRLNRGLSQAALLLRQPGARGLARSHPPRQQQFSSLDKPFPGASAEFIDKLEFIQPNVISGIPYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRILYESQRQGRI SFYMTNYGEEGTHVGSAAALDNTDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYA A KRANANRVVICYFGEGAASEGDAHAGFNFAATLECP I IFFCRNNGYAISTPTSEQYRGDGI AARGPGYGIMSIRVDGNDVFAVYNATKEARRRAVAENQPFLIEAMTYRIGHHSTSDSSAYRSVDEVNYWDKQDHPISRRLHYLLSQGWWDDEEQEKAWRKQSRKVM EAFEQAERKPKPNP NLLFSDVYQEMPAQLRKQQESLARHLQTYGEHYPLDHFDK

>sp|Q14990|ODFP1\_HUMAN Outer dense fiber protein 1 OS=Homo sapiens GN=ODF1 PE=1 SV=2

MAALSCLLDSVRRDIKKVDRELRLRCIDEFSTRCLCDLYMHPYCCDLHPYPYCLCYSKRSRSCGLCDLYPCCLCDYKLYCLRPSLSRLERKAIRAIEDEKRELAKLRRTTNRI LASSCCSSNILGSVNVCGFEPDQVKVRVKDGKVCVSAERENRYDCLGSKKYSYMNICKEFSLPPCVDEKDVTSYGLGSCVKIESPCYPCTSPCSPCSPCPCNPCSPYDPCNPCYPCGSRFSCRKMIL

>sp|Q5BJF6|ODFP2\_HUMAN Outer dense fiber protein 2 OS=Homo sapiens GN=ODF2 PE=1 SV=1

MSASSSGGSPRFPSCGKNGVTSLSLTKKVL RAPCGAPSVTVTKSHKRGMGDTVNVRRSVRVKTKVPWMP PGKSSARVPGCKWENPPHCLEITPPSSEKLV SVMRLSDLSTEDDDSGHCKMNRYDKKIDSLMNAVGLKSEVKMQKGERQMAKRFLEERKEELEVAHELAETEHENTVLRHNIERMKEEKDFTILQKKHLQQEKECLMSKLVEAEMDGA AAKQVMALKDTIGKLKTEKQMTCTDINTLTRQKELLLQKLSTFEETNRTL RDLLREQHCKEDSERLMEQQGALLKRLAEA DSEKARLLLLLQDKDEVEELLQETQCEKAQAKTASELSKSMESMRGHLQAQLRSKEAENSRLCMQIKNLSRSGNQHKAVEAIMEQLKELKQKGD RDKESLKKAIRAQKERA EKSEEYAEQLHVQLADKDLV AEALSTLESWRSRYNQVVEKGDLELEIIVLNDRVTDLVNQQQTLE EKMREDRDSLVERLHRQTAEYS AFKLENERLKASFAPMEDKLNQAHLEVQQLKASVKNYE GMIDNYKSQVMKTRLEADEVA AQLERC DKENKILKDEMKEIEAARRQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLRSRIEHQGDKLEMAREKHQASQKENK



QLSLKVDLERKLEATSAQNIEFLQVIAKREEAIHQSQLRLEEKTRCGTLARQLESAIE  
DARRQVEQTKEHALSKERAAQNKILDLETQLSRTKTELSQLRRSRDDADRRYQSRLQDLK  
DRLEQSESTNRSMQNYVQFLKSSYANVFGDGPYSTFLTSSPIRSRPPA

>sp|Q8IZS5|OFCC1\_HUMAN Orofacial cleft 1 candidate gene 1 protein OS=Homo sapiens GN=OFCC1  
PE=1 SV=1

MEREKFQQKALKQTKQKKSKSAEFLMVKEDREATEGTGNPAFNMSSPDLSACQTAEKKVI  
RHDMPDRTLAAHQKFRLPASAEPKGNEYGRNYFDPLMDEEINPRQCATEVSREDDDRIF  
YNRLTKLFDESRQGEPQDESGREETLNSEAPGSSNKSHEIHKEASEATTAHLEEFQRSQK  
TIILLGSSPLEQEIRSTSLHMEDEMHPWILLLKVTAVIRSRRYYREQRF

>sp|Q15743|OGR1\_HUMAN Ovarian cancer G-protein coupled receptor 1 OS=Homo sapiens GN=GPR68  
PE=1 SV=1

MGNITADNSSMSCTIDHTIHQTLAPVVVYTVLVVGFANCLSLYFGYLQIKARNELGVYL  
CNLTVADLFYICSLPFWLQYVLQHDNWSHGDLSQVCGILLYENIYISVGFLCCISVDRY  
LAVAHPPFRFHQFRTLKAAGVSVVIWAKELLSIYFLMHVEEDENQHRVCFEHYPIQA  
WQRAINYYRFLVGFLFPICLLLASYQGILRAVRRSHGTQKSRKDQIQRLVLSTVVI FLAC  
FLPYHVL LLVRSVWEASCDFAKGVFNAYHFSLLTSFNCVADPVLVYCFVSETTHRDLARL  
RGACLAFLTCSRTGRAREAYPLGAPEASGKSGAQGEPELLTKLHPAFQTPNSPGSGGFP  
TGRLA

>sp|Q13516|OLIG2\_HUMAN Oligodendrocyte transcription factor 2 OS=Homo sapiens GN=OLIG2  
PE=2 SV=2

MDSDASLVSSRPSSPEDDLFLPARSKGSSGSAFTGGTVSSSTPSDCPELSAELRGAMG  
SAGAHPGDKLGGSGFKSSSSSTSSSTSSAAASSTKKDKKQMTPELQQLRLKINSRERKR  
MHDLNIA MDGLREVMPYAHGPSVRKLSKIATLL LARNYILMLTNSLEEMKRLVSEIYGGH  
HAGFHPSACGGLAHSAPLPAATAHPAAAAHAHHPAVHHPILPPAAAAAAAAAAAAAVSS  
ASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGSGASGGFQHWGMP CPCSMCQV  
PPPHHVSAMGAGSLPRLTSDAK

>sp|P78380|OLR1\_HUMAN Oxidized low-density lipoprotein receptor 1 OS=Homo sapiens GN=OLR1  
PE=1 SV=1

MTFDDLKIQTVDKQDEKSNGKAKGLQFLYSPWWCLAAATLGVLCGLVVTIMVLGMQL  
SQVSDLLTQEQLNLTHQKKLEGQISARQQAEASQESENELKEMIETLARKLNEKSKEQ  
MELHHQNLNLQETLKRVANCSAPCPQDWIWHGENCYLFSSGSFNWEKSQEKCLSLDAKLL  
KINSTADLDFIQQAISYSSFPFWMGLSRRNPSYPWLWEDGSPLMPHLFRVRGAVSQTYP  
GTCAYIQRGAVYAENCILAAFSICQKKANLRAQ

>sp|O60422|ONEC3\_HUMAN One cut domain family member 3 OS=Homo sapiens GN=ONECUT3 PE=3  
SV=2

MELSLESLGGLHVAHAQAGELLSPGHARSAQAHRGLVAPGRPGLVAGMASLLDGGGGG  
GGGGAGGAGGAGSAGGGADFRGELAGPLHPAMGMACEAPGLGGTYTTLTPLQHLPLAAV  
ADKFHQHAAAAAVAGAHGHPHAPHAPAAAPPPPPPPQRLAASVSGSFTLMRDERAALAS  
VGHLYGYPYGKELPAMGSPLSPLNALPPALHGAPQPPPPPPPLAAYGPPGHLAGDKLL  
PPAAFEPAHALLGRAEDALARGLPGGGGGTGSGGAGSGSAAAGLLAPLGGLAAAGAHGPHG  
GGGGPGGSGGGSAGAAAAEINTKEVAQRITAEKRYSHIPQAIFAQRILCRSQGTLSDLL  
RNPKPWSKLKSGRETFRRMWWLQEPEFQRMSALRLAACKRKEQEQKERALQPKKQRLV  
FTDLQRRTLIAIFKENKRPSKEMQVTISQQLGLELNTVSNFFMNARRRCMNRWAEESTA  
PGGPAGATATFSKA

>sp|A6NGQ2|OEEP\_HUMAN Oocyte-expressed protein homolog OS=Homo sapiens GN=OEEP PE=1 SV=3  
MVDDAGAAESQRGKQTPAHSLEQLRRLPLPPPQIRIRPWWFPVQELRDPLVFYLEAWLAD  
ELFGPDRAIIPEMEWTSQALLTVDIVDSGNLVEITVFGRPRVQNRVKSMLLCLAWFHREH  
RARAEMKMHLEKNLKAHASDPHSPQDPVA

>sp|P41145|OPRK\_HUMAN Kappa-type opioid receptor OS=Homo sapiens GN=OPRK1 PE=1 SV=2  
MDSPIQIFRGEPGPTCAPSACLPPNSSAWFPGWAEPDSNGSAGSEDAQLEPAHISPAIPV  
IITAVYSVVVVGVLVGNLVMFVIIRYTKMKTATNIYIFNLALADALVTTMPFQSTVYL  
MNSWPFQDVLCKIVISIDYYNMFTSIFTLTMMSVDRYIAVCHPVKALDFRTPLKAKIINI  
CIWLLSSSVGISAIVLGGTKVREDVDVIECSLQFPDDDYSWWDLFMKICVFIFAFVIPVL  
IIIVCYTLMILRLKSVRLSGSREKDRNLRRITRLVLVVAVFVVCWTPIHIFILVEALG  
STSHSTAALSSYYFCIALGYTNSSLNPILYAFLDENFKRCFRDFCFPLKMRMERQSTSrv  
RNTVQDPAYLRDIDGMNKPV

>sp|P03999|OPSB\_HUMAN Short-wave-sensitive opsin 1 OS=Homo sapiens GN=OPN1SW PE=1 SV=1  
MRKMSEEEFYLFKNISSVGPWDGPQYHIAPVWAFYLQAAFMGTVFLIGFPLNAMVLVATL  
RYKKLRQPLNYILVNVSFGGFLLCIFSVFPVFVASCNGYFVGRHVCALEGFLGTVAGLV  
TGWSLAFLAFERYIVICKPFGNFRFSSKHALTVVLATWTIGIGVSIPFFGWSRFIPEGL  
QCSCGPDWYTVGTYRSESYTWFLFIFCFIVPLSLICFSYTQLLRALKAVAAQQQESATT  
QKAEREVSRMVVVMVGSFCVCYVPYAAFAMYMVNNRNHGLDLRLVTIPSFFSKSACIYNP  
IIYCFMKNQFQACIMKMVCGKAMTDESDTCSSQKTEVSTVSSTQVGPN

>sp|P04001|OPSG\_HUMAN Medium-wave-sensitive opsin 1 OS=Homo sapiens GN=OPN1MW PE=1 SV=1  
MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYNSNSTRGPFEGPNYHIAPRWVYHLTSVWM  
IFVVIASVFTNGLVLAATMKFKKLRLPLNWILVNLAVADLAETVIASTISVVNQVGYFV  
LGHPMCVLEGYTVSLCGITGLWSLAIISWERWMVCKPFGNVRFDAKLAIVGIAFSWIWA  
AVWTAPPIFGWSRYWPHGLKTSCGPDVFSGSSYPGVQSYMIVLMVTCITPLSIIIVLCYL  
QVWLAIRAVAKQKQKESESTQKAEKEVTRMVVVMVLAFCFCWGPYAFFACFAAANPGYPFH  
PLMAALPAFFAKSATIYNPVIYVFMNRQFRNCILQLFGKKVDDGSELSSASKTEVSSVSS  
VSPA

>sp|Q8NE18|NSUN7\_HUMAN Putative methyltransferase NSUN7 OS=Homo sapiens GN=NSUN7 PE=2  
SV=4

MLNSTGELEFSNEEDPEIISQLTSLPLSGGKSSAGVPEKTGYPDsvyVMAANIFQGIRIE  
KSAQKVLIKYGNEPLRSLSESEDQSFQRLSYELAFSALKYQDILETILIDSCIFPSTTIP  
DHLSSLIIVMLYDFQDRKFQTRVLSDNEEPISVQEVENLLNSFKIKLAAALARCRIKHD  
ALSIYHILPETVRKQELRASTLPLYAWINTCKISPEEVYNNLKRRGYNKVKSVLHIDDKV  
FAVDQHCDYDLIFPShLKNdLINIDLFKDYKLIFQDKSRSLAVHSVKALLNMDDDVLMVN  
TGSWYTVSHMSILTNNTSKVFCGVQSQAKDPLKTLFTKIGCKNIEILHEKFINIESK  
DHRLQKVKVILLPRCSGLGVSNPVEFILNEHEDTEFLKdHSQGGISVDKLHVLAQQQYE  
QLTHAMKFTKAQAVVYCTCSVFPEENEAVVKKALEFQDLGNKGQPYRLSPPVLPCLSLKE  
IQLSTDKFFRMEPSEITNGCFLSILTRERDPSETVSVNDVLARAAAGLLDGIELGKSSK  
REKKKKKSKTSLTKGATTDNGIQMKIAEFLNRETKASANLSETVTKPPLPQKNTAQVGAS  
SQTRKPNKLAPHPAVPAFVKNTCPSRPRERQTHFLRPRPEDRMVALKPIKIVLPPVFMPF  
SSPQGIRSRMPTQHLYCRWVAPKALVPTCLPTHSLSRKEEKPKDDTPSSLLRPPRRWL

>sp|Q14973|NTCP\_HUMAN Sodium/bile acid cotransporter OS=Homo sapiens GN=SLC10A1 PE=1 SV=1  
MEAHNASAPFNFTLPPNFGKRPTDLALSVILVFMLFFIMLSLGTMEFSKIKAHLWKPKG  
LAIALVAQYGIMPLTAFVLGKVFRLKNIEALAILVCGCSPGGNLSNVFSLAMKGD MNLSI

VMTTCSTFCALGMMPLLLYIYSRGIYDGLDKVPYKGIVISLVVLIPCTIGIVLKSKR  
PQYMRVVIKGGMIIILLCSVAVTVLSAINVGKSIMFAMTPLLIIATSSLMPIGFLGIVL  
SALFCLNGRCRRTVSMETGCQNVQLCSTILNVAFPPEVIGPLFFFPLLYMIFQLGEGLLL  
IAIFWCYEKFKTPKDKTKMIYTAATTEETIPGALGNGTYKGEDCSPCTA

>sp|P20783|NTF3\_HUMAN Neurotrophin-3 OS=Homo sapiens GN=NTF3 PE=1 SV=1

MSILFYVIFLAYLRGIQGNMDQRSLPEDSLNSLIILKLIQADILKNKLSKQMDVKENYQ  
STLPKAEAPREPERGGPAKSAFQPVIAMDELLRQRRYNSPRVLLSDSTPLEPPPLYLM  
EDYVGSPPVANRTSRRKRYAEHKSHRGEYSVCDSESLWTDKSSAIDIRGHQVTVLGEIK  
TGNSPVKQFYFETRCKEARPVKNGCRGIDDKHWSQCKTSQTYVRALTSNNKLVGWRWI  
RIDTSCVCALSRKIGRT

>sp|Q8IVF1|NTM2A\_HUMAN NUT family member 2A OS=Homo sapiens GN=NUTM2A PE=2 SV=4

MEVKGPSGRSFCCSEGEQFKSCLKRHTPSLLLPSSWKGNSGSCMAKALHRMSPTPNSCP  
LPLPLCRMSGVLCRNLFTFKFSLFQLDSGASGEPGHSGLTLGFSGHCNCQTAVVSAQP  
EGMASNGAYPALGPGVTANPGTSLSVFTALPFTTPAPGPAHGPLLVTAGAPPGPLVLST  
LPSTPLVTEQDGCPSGAGASNVFVQMRTEVGPVKAAQAQTLVLTQAPLVWQAPGALCGG  
VVCPPPLLLAAAPVVPVMAAQVVGQTQACEGWSQGLPLPPPPPPAAQLPPIVSQGNAGP  
WPQGAHGEGLASSQAKAPPDDSCNPRSVYENFRLWQHYKPLARRHLPQSPDTEALSCFL  
IPVLRSLARRKPTMTLEGLWRAMREWQHTSNFDRMIFYEMAEKFLEFEAEEMQIQKSQ  
WMKGPQCLPPPATPRLEPRGPPAPEVVKQPVYLPSKAGPKAPTACLPPPRPQRPVTKARR  
PPPRPHRAETKARLPPPRPQRPAAETKVPEEIPPEVVQEYVDIMEELLGPSLGATGEPEK  
QREEGEVKQPQEEDWTPDPGLLSYTDKLCQKDFVTKVEAVIHPQFLEELLSPDPQMDF  
LALSQELEQEEGLTLAQLVEKRLLPLKEKQHARAAPSRGTARLDSSSSKFAAGQGAERDV  
PVPQQGVGMETCPPQTARDSQGRGHAHTGMARSKDSVLLGCQDSPGLRAARPTSPPQD  
HRPTCPGVGTKDALDPLGGSPVRESHGLAQGSSEEEELPSLAFLGSHKLLPWWLPQSP  
VPASGLLSPEKWPQGTHQFPSAERRGLNLAPSPANKAKKRPLFGSLSPAECTPHPGPGL  
RVSGEQSLTWGLGGPSQSQRKGDPLVSRKEKKQRCSQ

>sp|Q5VZR2|NTM2G\_HUMAN NUT family member 2G OS=Homo sapiens GN=NUTM2G PE=3 SV=2

MASNGAYPVLGPGVTNPGTSLSVFTALPFATPSPGPTHRRPLVTAVVPPAGPLVLSAFP  
STPLVAGQDGRGSPGAGASNVFVQMRTEVGPVKPPQAQTLILTQAPLVWQAPGTLCGGVM  
CPPPLLLAAAPGVPVTSAAQVVGQTQACEGWSHGLPLPPPPPPAAQVAPIVSPGNAGPWPQ  
GAHGEGLAPSQAARPDSCPKSVYENFRLWQHYKPLARRHLPQSPDTEALSCFLIPV  
LRSLARRKPTMTLEGLWRAMREWQHTSNFDRMIFYEMAAKFLEFEAEEMQIQKSQWMK  
GPQSLPPPAPPRLEPRGPPAPEVVKQPVYLPSKDGPKAPTACLPPPRPQRPAAETKAHLPP  
PRPPRAETKVPEEIPPEVVQEYVDIMEELLGSHPGDTGEPEGQREKKGVEQPQEEDGMT  
SDPGLLSYIDKLCQSEDVTKVEAVIHPRFLEELLSPDPQMDFLALSQELEQEEGLTLAQL  
LVEKRLLSLKEKGCGRAPRHGTARLDSSPSEFAAGQEAAREVPDPQQRVSVETSPPQTA  
AQDPQGGGRVRTGMARSEDPAVLLGCQDSPRLKAVRPTSPPQDHRPTCPGLGTKDALGLP  
GESPVKESHGLAKGSSEETELPGMVVVGSHHRLRPWRLSQSPVPSSGLLSPGGRGPQGA  
LQSPSAQKRGLSPSPASKSKKRPLFGSPSPAECTPHPGPGLRVSGEQSLAWGLGGPSQ  
SQKRKGDPLASRRKKKRHCSQ

>sp|Q9Y2I2|NTNG1\_HUMAN Netrin-G1 OS=Homo sapiens GN=NTNG1 PE=1 SV=3

MYLSRFLSIHALWVTSSVMQPYPLVWGHYDLCKTQIYTEEGKVWDYMACQPESTDMTKY  
LKVKLDPPDITCGDPPEFTCAMGNPYMCNNECDASTPELAHPPELMFDFEGRHPSTFWQS  
ATWKEYPKPLQVNITLSWSKTIELTDNIVITFESGRPDQMLEKSLDYGRTWQPYQYYAT

DCLDAFHMDPKSVKDL SQHTVLEI ICTEEYSTGYTTNSKIIHFEIKDRFAFFAGPRLRNM  
ASLYGQLD TTKKLRDFFTVDLRIRLLRPAVGEIFVDELHLARYFYAISDIKVRGRCKCN  
LHATVCVYDNSKLTCECEHNTTGPDCGKCKNYQGRPWSPGSYLPIPKGTANTCIPSISS  
IGNCECFGHSNRCSYIDLLNTVICVSKHNTRGQHCELCRLGYFRNASAQLDDENVCI EC  
YCNPLGSIHDCNGSGFCECKTGTGPKCDECLPGNSWHYGCQPNVCDNELLHCQNGGTC  
HNNVRCLCPAAYTGILCEKLRCEEAGSCGSDSGQGAPPHGSPALLLTLLGTASPLVF

>sp|Q16288|NTRK3\_HUMAN NT-3 growth factor receptor OS=Homo sapiens GN=NTRK3 PE=1 SV=2

MDVSLCPAKCSFWRIFLLGSVWLDYVGSVLACPANCVCSTEINCRPPDDGNLFPLLEGQ  
DSGNSNGNASINITDISRNITSIHIENWRS LHTLNAVDMELYTGLQKLTIKNSGLRSIQP  
RAFAKNPHLRYINLSSNRLTTL SWQLFQTL SLRELQLEQNFFNCSDIRWMQLWQEQGEA  
KLNSQNL YCINADGSQ LPLFRMNISQCDLPEISVSHVNLT VREGDNAVITCNGSGSPLPD  
VDWIVTGLQSINTHQTNL NWTNVHAINLT LVNVTSEDNGFTLT CIAENVVGMSNASVALT  
VYYPPRVVSLEEPELRLEHCIEFVVRGNPPPTLHWLHNGQPLRESKIIHVEYYQEGEISE  
GCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFLKEPFPESTDNFILFDEVSPPTPIT  
VTHKPEEDTFGVSIAVGLAAFAVLLVVL FVMINKYGRRSKFGMKGPVAVISGEEDSASP  
LHHINHGITTPSSLDAGPDTTVIGMTRIPV IENPQYFRQGHNCHKPDTYVQH IKRRDIVL  
KRELGE GAFGKVFLAE CYNLSP TKDKMLVAVKALKDPTLAARKDFQREAE LLTNLQHEHI  
VKFYGVCGDGDPLIMVFEYMKHGD LNKFLRAHGPDAMILVDGQPRQAKGELGLS QMLHIA  
SQIASGMVYLASQHFVHRDLATRNCLV GANLLVKIGDFGMSRDVYSTDYR LFNPSGNDF  
CIWCEVGGHTMLPIRWMPPE SIMYRKFTTESDVWSFGVILWEIFTY GKQPFQLSNTEVI  
ECITQGRVLERPRVCPKEVYDVMLGCWQREPQQRLNIKEIYKILHALGKATPIYLDILG

>sp|Q12769|NU160\_HUMAN Nuclear pore complex protein Nup160 OS=Homo sapiens GN=NUP160 PE=1 SV=3

MLHLSAAPPAPPPEVTATARPCLCSVGRRGDGGKMAAAGALERSFVELSGAERERPRHFR  
EFTVCSIGTANAVAGAVKYSESAGGFYYVESGKLFSVTRNRFIHWKTS GDTLELMEESLD  
INLLNNAIRLKFNQCSVLPGGVYVSETQNRV IILMLTNQTVHRLLLPHPSRMYRSELVVD  
SQMQSIFTDIGKVDFTDPCNYQLIPAVPGISP NSTASTAWLSSDGEALFALPCASGGIFV  
LKLPPYDIPGMVSVELKQSSVMQRLLTGWMPTAIRGDQSPSDRPLSLAVHCVEHDAFIF  
ALCQDHLKLRMWSYKQMCLM VADMLEYVPVKKDLRLTAGTGHKLRLAYSPTMGLYLG IYM  
HAPKRGQFCIFQLVSTESNRYSLDHIS SLFTSQETLIDFALTSTDIWALWHD AENQTVVK  
YINFEHN VAGQWNPVFMQPLPEEEI VIRDDQDPREMYLQSLFTPQQFTNEALCKALQIFC  
RGTERNLDLSWSELKKEVTLAVENELQGSVTEYEFSQEEFRNLQQEFWCKFYACCLQYQE  
ALSHPLALHLNPHTNMVCLLKKGYLSFLIPSSLV DHL YLLPYENLLTEDETTISDDVDIA  
RDVICLIKCLRLIEESVTVDMSVIMEMSCYNLQ SPEKAAEQILED MITIDVENVMEDICS  
KLQEIRNP IHAIGLLIREMDYETEVE MEKGFNPAQPLNIRMNLTQLYGSNTAGYIVCRGV  
HKIASTRFLICRDL ILQQLMRLGDAVIWGTGQLFQAQQDLLHRTAPLLL SYYL IKWGS  
ECLATDVPLDTLESNLQHL SVLELTD SGALMANRFVSSPQTIVELFFQE VARKHII SHLF  
SQPKAPLSQTGLNWPEMITAITSYLLQLLWPSNPGCLFLECLMGNCQYVQLQDYIQLLHP  
WCQVNVGSCRFMLGRCYLVTGEGQKALECFCAASEVGKEEFLDRLIRSEDGEIVSTPRL  
QYYDKVLRLLDVIGLPELVIQLATSAITEAGDDWKSQATLRTCIFKHHLDLGHNSQAYEA  
LTQIPDSSRQLDCLRQLVVVLCERSQLQDLVEFPYVNLHNEVVGIIESRARAVDLMTHNY  
YELLYAFHIYRHNRYKAGTVMFEYGMRLGREVRTLRGLEKQGNCYLAALNCLRLIRPEYA  
WIVQPVS GAVYDRPGASPKRNHDGECTAAPTNRQIEILELEDLEKECSLARIRLTLAQHD  
PSAVAVAGSSSAEEMVTL LVQAGLFDTAISLCQTFKLPLTPVFEGLAFCIKLQFGGEAA

QAEAWAWLAANQLSSVITTKESSATDEAWRLSTYLERYKVQNNLYHHCVINKLLSHGVP  
LPNWLINSYKKVDAEELLRLYLNYDLLEEAVDLVSEYVDAVLGKGHQYFGIEFPLSATAP  
MVWLPYSSIDQLLQALGENSANSNIALSQKILDKLEDYQQKVDKATRDLRYRTL

>sp|Q92621|NU205\_HUMAN Nuclear pore complex protein Nup205 OS=Homo sapiens GN=NUP205 PE=1  
SV=3

MATPLAVNSAASLWGPYKDIWHKVGNALWRRQPEAVHLLDKILKKHKPDFISLFKNPPKN  
VQQHEKVQKASTEGVAIQGQQGTRLLPEQLIKEAFILSDLFDIGELAAVELLLAGEHQQP  
HFPGLTRGLVAVLLYWDGKRCIANSLKALIQSRRGKTWTLELSPELASMTTRFTDELMEQ  
GLTYKVLTLVSQIDVNNFEKLRERGLGSEKHKRKEVSDLIKECRQSLAESLFAWACQSP  
LGKEDTLLLIHGLERTVEANGSLDAVNLALLMALLYCFDISFIEQSTEERDDMIHQLPL  
LTEKQYIATIHSLRQDSQLWKLPGQATVRLAWALALRGISQLPDVTALAEFTEADEAMA  
ELAIADNVFLFLMESVVVSEYFYQEEFYIRRVHNLITDFLALMPMKVKQLRNRADEDARM  
IHMSMQMGNEPPISLRRDLEHMLLIGELYKKNPFHLELALEYWCPTPLQTPTIMGSYL  
GVAHQRPQRQVLSKFVRQMGDLLPPTIYIPYLKMLQGLANGPQCAHYCFSLKLVNGSS  
HVENIQGAGGSPVSEWHFFHSLMLYHEHLRKDLPSADSVQYRHLPSRGITQKEQDGLIAF  
LQLTSTIITWSENARLALCEHPQWTPVVVILGLLQCSIPVVLKAELLKTAAFGKSPEIA  
ASLWQSLEYTQILQTVRIPSQRQAIGIEVELNEIESRCEEYPLTRAFCLISTLVESFP  
SNLGAGLRPPGFDPYLQFLRDSVFLRFRTRAYRRAAEKWEVAEVVLEVFYKLLRDYEPQL  
EDFVDQFVELQGEEI IAYKPPGFSMLYHLLNESPMLELALSLEEGLVQLDITYAPFPGKK  
HLEKAVQHCLALLNLTQKENLFMDLLRESQLALIVCPLEQLLQGINPRTKKADNVVNIA  
RYLYHGNTNPELAFESAKILCCISCNSNIQIKLVGDFTHDQSSISQKLMAGFVECLDCEDA  
EEFVRLEEGSELEKKLVAIRHETRIHILNLLITSLECNPPNALYLLGFELKKPVSTNL  
QDPGVLGCPRTCLHAILNILEKGTGRTGPVAVRESPQLAELCYQVIYQLCACSDTSGPT  
MRYLRTSQDFLFSQLQYLPFSNKEYEISMLNQMSWLMKTASIELRVTSLNQRSHTQRL  
HLLDDMPVKPYSDGEGGIEDENRSVSGFLHFDATKVRKILNILDSIDFSQEIPEPLQ  
LDFFDRAQIEQVIANCEHKNLRGQTVCNVKLLHRVLVAEVNALQMAAIGQRPLLMEEIS  
TVLQYVVGRNKLLQCLHAKRHALESWRQLVEIILTACPQDLIQAEDRQLIIRDILQDVHD  
KILDDEAAQELMPVAVAGVFTLTAHLSQAVLTEQKETSVLGPAAHYAFMLDSCFTSPPP  
EENPLVGFASIGDSSLYIILKLLDFILKTGGGFQVRVTHLYGSLLYYLQIAQRPDEPDT  
LEAAKKTWLERLTAPEDVFSKLQRENIAIIESYGAALMEVVCRDACDGHEIGRMLALALL  
DRIVSDKQQQWLLYLSNSGYLKVLDVSLVEDDRTLQSLTPQPPLLKALYTESKMAFL  
TRVAKIQGGALELLRSGVIVRLAQCVYDMRPETDPQSMFGMRDPPMFIPTPVDYRQIL  
LPALQLCQVILTSSMAQHLQAAGVQLQFLISHSDTIQAILRCQDVSAGSLQELALLTGII  
SKAALPGILSELVDVNEGSLMELQGHIGRFQRQCLGLSRFGGSDRLRQFKFQDDNVEG  
DKVSKKDEIELAMQICANVMEYCQSLMLQSSPTFQHAVCLFTPSETVNRDGPRQDTQ  
APVVPYWRPLGLGIIYLLKQSANDFFSYDDSHRQSVSKLQNVEQLPPDEIKELCQSVMP  
AGVDKISTAQKYVLARRRLVKVINNRKLLSLCSFIIETCLFILWRHLEYLLHCMPTDS  
QDSLFASRTLFSRRLQDSFASETNLDFRSGLAIVSQHDLQLQADAINAFGESLQKKLL  
DIEGLYSKVRSRYSFIQALVRRIRGLLRISRN

>sp|P03897|NU3M\_HUMAN NADH-ubiquinone oxidoreductase chain 3 OS=Homo sapiens GN=MT-ND3  
PE=1 SV=1

MNFALILMINTLLALLLMIITFWLPQLNGYMEKSTPYECGFDPMSPARVPFSMKFFLVAI  
TFLLFDLEIALLLPLPWALQTTNPLMVMSSLLLIILALSLAYEWLQKGLDWTE

>sp|P03901|NU4LM\_HUMAN NADH-ubiquinone oxidoreductase chain 4L OS=Homo sapiens GN=MT-ND4L  
PE=1 SV=1

MPLIYMNIMLAFTISLLGMLVYRSHLMSSLLCLEGMMLSLFIMATLMTLNTHSLLANIVP  
IAMLVFAACEAAVGLALLVSISNTYGLDYVHNLNLLQC

>sp|P03915|NU5M\_HUMAN NADH-ubiquinone oxidoreductase chain 5 OS=Homo sapiens GN=MT-ND5  
PE=1 SV=2

MTMHTTMTTLTSLIPPILTTLVNPKNKNSYPHYVKSIVASTFIISLFPTTMFMCLDQE  
VIISNWHWATTQTTQLSLSFKLDYFSMMFIPVALFVTWSIMEFSLWYMNSDPNINQFFKY  
LLIFLITMLILVTANNLFQLFIGWEGVIMSFLISWWYARADANTAATQAILYNRIGDI  
GFILALAWFILHSNSWDPQQMALLNANPSLTPLLGLLLAAAGKSAQLGLHPWLPSAMEGP  
TPVSALLHSSTMVVGIFLLIRFHLAENSPLIQTTLCLGAITTLFAAVCALQTQNDIKK  
IVAFSTSSQLGLMMVTIGINQPHLAFLHICTHAFFKAMLFMCSGSIIHNLNNEQDIRKMG  
GLLKTMPLTSTSLTIGSLALAGMPFLTGFYSKDHIETANMSYTNAWALSITLIATSLTS  
AYSTRMILLTLTGQPRFPPTLTNINENNPTLLNPIKRLAAGSLFAGFLITNNISPASPFQT  
TIPLYLKLTA LAVTFLGLLTALDLNYLTNKLKMKSPCTFYFSNMLGFYPSITHRTIPYL  
GLLTSQNLPLLLDLTWLEKLLPKTISQHQISTSIIITSTQKGMIKLYFLSFFFPLILTLL  
LIT

>sp|P53384|NUBP1\_HUMAN Cytosolic Fe-S cluster assembly factor NUBP1 OS=Homo sapiens  
GN=NUBP1 PE=1 SV=2

MEEVPHDCPGADSAQAGRGASCQGCNPQRLCASGAGATPDTAIEEIKEKMKTVKHKILVL  
SGKGGVGKSTFSAHLAHGLAEDENTQIALLDIDICGPSIPKIMGLEGEQVHQSGSGWSPV  
YVEDNLGVMSVGFLSSPDDAVIWRGPKKNGMIKQFLRDVDWGEVDYLIVDTPPGTSDEH  
LSVVRYLATAHIDGAVIITTPQEVS LQDVRKEINFCRKVKLP IIGVVENMSGFICPKCKK  
ESQIFPPTTGAELMCQDLEVP LLGRVPLDPLIGKNC DKGSFFIDAPDSPATLAYRSII  
QRIQEFCNLHQSKEENLISS

>sp|Q9Y5Y2|NUBP2\_HUMAN Cytosolic Fe-S cluster assembly factor NUBP2 OS=Homo sapiens  
GN=NUBP2 PE=1 SV=1

MEAAAEPGNLAGVRHIIILVLSGKGGVGKSTISTELALALRHAGKKVGILDVDLCGPSIPR  
MLGAQGRAVHQCDRGWAPVFLDREQSISLMSVGFLLEKPD EAVVWRGPKKNALIKQFVSD  
VAWGELDYLVVDTPPGTSDEH MATIEALRPYQPLGALVVTTPQAVSVGDVRRELTFCRKT  
GLRVMGIVENMSGFTCPHCTECTSVFSRGGGEELAQLAGVPFLGSVPLDPALMRTLEEGH  
DFIQEFPGPSAFAALTSIAQKILDATPACLP

>sp|Q02818|NUCB1\_HUMAN Nucleobindin-1 OS=Homo sapiens GN=NUCB1 PE=1 SV=4

MPPSGPRGTLLLLPLLLLLLLRAVLAVPLERGA PNKEETPATESPDTGLYYHRYLQEVID  
VLETDGHFREKLQAANAEDIKSGKLSRELD FVSHHVRTKLDLKRQEVSRRLMLLKAKMD  
AEQDPNVQVDHLNLLKQFEHLDPNQHTFEARDLELLIQTATRD LAQYDAAHHEEFKRYE  
MLKEHERRRYLES LGEEQRKEAERKLEEQRRHREHPKVNVP GSQAQLKEVWEELDGLDP  
NRFNPKTFFILHDINSDGVLD EQLEALFTKELEKVYDPKNEEDDMREMEERLRMREHV  
MKNVDTNQDRLVTLEEF LASTQRKEFGDTGEGWETVEMHPAYTEEELRRFEEELAAREAE  
LNAKAQRLSQETEALGRSQGRLEAQKRELQQAVLHMEQRKQQQQQQGHKAPAAHPEGQL  
KFHPD TDDVPVPAPAGDQKEVD TSEKKLLERLPEVEVPQHL

>sp|Q14249|NUCG\_HUMAN Endonuclease G, mitochondrial OS=Homo sapiens GN=ENDOG PE=1 SV=4

MRALRAGLTLASGAGLGAVVEGWRRRRREDARAAPGLLGRLPVLPVAAAAELPPVGGPRG  
PGELAKYGLPGLAQLKSRESYVLCYDPRTRGALWVVEQLRPERLRGDGDRRECDFREDDS

VHAYHRATNADYRGSGFDRGHLAAAAANHRWSQKAMDDTFYLSNVAPQVPHLNQNAWNNLE  
KYSRSLTRSYQNVYVCTGPLFLPRTEADGKSYVKYQVIGKNHVAVPTHFFKVLILEAAGG  
QIELRTYVMPNAPVDEAIPLERFLVPIESIERASGLLFVPNILARAGSLKAITAGSK

>sp|A8MXV4|NUD19\_HUMAN Nucleoside diphosphate-linked moiety X motif 19 OS=Homo sapiens  
GN=NUDT19 PE=1 SV=1

MSSSLRPGPSRWRAASIVLAAGWSRPETATPPSRPPPAEGFRLLLLQRSPHQGFMPGAH  
VFSGGVLDAAADRADWLGLFAPHHGPPRFGLGPAPFSRTAFPSLPDTHDKTDNTGTLPE  
DVAFRICAVREAFEEAGVLLLLRPRTSPPGPAPGPGLALEPPPGLASWRDRVRQDPRHFLR  
LCAHLDCTPDIWALHNWSAWLTPFLRGTTTRFDTAFFLCCLREPPPVYPDLAEVVGQWS  
SPSEATESFLSKEIWLPPPQFYEVRRLANFASLSDLHKFCLGRALEGLERWLPIILLTAD  
GMVHLLPGDELYLEDSDFLENLMSTEKKTEEIMKEGKQFHRIPTYHRHLYDIHVTVPQKY  
KHVYPKNSVVRKSHL

>sp|Q9UKX7|NUP50\_HUMAN Nuclear pore complex protein Nup50 OS=Homo sapiens GN=NUP50 PE=1  
SV=2

MAKRNAEKELTDRNWDQEDAEVGTFSMASEEVLKNRAIKKAKRRNVGFESDTGGAFKG  
FKGLVVPSSGGGRFSGFGSGAGGKPLEGLSNGNITSAPPFASAKAAADPKVAFGSLAANG  
PTTLVDKVSNPKTNGDSQQPSSSGLASSKACVGNAYHKQLAALNCSVRDWIVKHVNTNPL  
CDLTPIFKDYEKYLANIEQQHGNSESESNKVAETQSPSLFGSTKLQQESTFLFHG  
NKTEDTPDKKMEVASEKKTDPSSLGATSASFNGKKVDSSVLGSLSSVPLTGFSFSPGNS  
SLFGKDTTQSKPVSSPFPTKPLEGQAEGDSGECKGGDEEENDEPPKVVVTEVKEEDAFYS  
KKCKLFYKKDNEFKKEGIGTLHLKPTANQKTQLLVRADTNLGNILLNVLIPPMPCTRTG  
KNNVLIVCPNPPIDEKNATMPVTMLIRVKTSEDADELHKILLEKKDA

>sp|Q8NFH5|NUP53\_HUMAN Nucleoporin NUP53 OS=Homo sapiens GN=NUP35 PE=1 SV=1

MAAFAVEPQGPALGSEPMLGSPTSPKPGVNAQFLPGFLMGDLPAPVTPQPRSISGPSVG  
VMEMRSPLLAGGSPQPVPVPAHKDKSGAPPVRSIYDDISSPGLGSTPLTSRRQPNISVMQ  
SPLVGVTSTPGTGQSMFSPASIGQPRKTTLSPAQLDPFYTGQDSLTSEDHLDDSWTVFG  
FPQASASYILLQFAQYGNILKHVMSNTGNWMHIRYQSKLQARKALSKDGRIFGESIMIGV  
KPCIDKSVMESSDRCALSSPSLAFTPIKTLGTPTQPGSTPRISTMRPLATAYKASTSDY  
QVISDRQTPKKDESLVSKAMEYMFGW

>sp|Q7Z3B4|NUP54\_HUMAN Nucleoporin p54 OS=Homo sapiens GN=NUP54 PE=1 SV=2

MAFNFGAPSGTSGTAAATAAPAGFGGFGTTSTTAGSAFSAFSAPTNTGTTGLFGGTQNKG  
FGFGTGFGTTTGTSTGLGTGLGTGLGFGGFNTQQQQQTTLGGLFSQPTQAPTQSNQLINT  
ASALSAPTLLGDERDAILAKWNQLQAFWGTGKGYFNNNIPPVEFTQENPFCRFKAVGYSC  
MPSNKDEDGLVVLVFNKKETEIRSQQQLVESLHKVLGGNQTLTVNVEGTKLTPDDQTEV  
VIYVVERSNGTSRRVPATTLYAHFEQANIKTQLQLGVTLSMTRTELSPAQIKQLLQNP  
PAGVDPIIWEQAKVDNPDSEKLIPVPMVGFKELLRRLKVQDMTKQHQTRLDIISEDISE  
LQKNQTSVAKIAQYKRKLMDSLHRTLQVLIKQEIQRKSGYAIQADEEQLRVQLDTIQGE  
LNAPTQFKGRLNELMSQIRMQNHFGAVRSEERYIIDADLLREIKQHLKQQQEGLSHLISI  
IKDDLEDIKLVEHGLNETIHIRGGVFS

>sp|O60356|NUPR1\_HUMAN Nuclear protein 1 OS=Homo sapiens GN=NUPR1 PE=1 SV=1

MATFPPATSAPQPPGPEDEDSSLDSDLYSLAHSYLGGGGRKGRTKREAAANTNRPSPG  
GHERKLVTKLQNSERKKRGARR

>sp|Q9BXS6|NUSAP\_HUMAN Nucleolar and spindle-associated protein 1 OS=Homo sapiens  
GN=NUSAP1 PE=1 SV=1

MIIPSLEELDSLKYSDLQNLAKSLGLRANLRATKLLKALKGYIKHEARKGNENQDESQTS  
ASSCDETEIQISNQEEAERQPLGHVTKTRRRCKTVRVDPDSQQNHSEIKISNPTEFQNHE  
KQESQDLRATAKVPSPPEHQEAENAVSSGNRDSKVPSEGKKSlytDESSKPGKNKRTAI  
TTPNFKKLHEAHFKEMESIDQYIERKKKHFEHNHSMNELKQQPINKGGVRTVPVPRGRLS  
VASTPISQRRSQGRSCGPASQSTLGLKGS�KRSaisAAKTGVRFSaATKDNEHKRSLTKT  
PARKSAHVTVSGGTPKGEAVLGTHKLKTITGNSAAVITPFKLtTEATQTPVSNKKPVFDL  
KASLSRPLNYEPHKGLKPWGQSKENNYLNQHVNRINFYKKTYKQPHLQtKEEQRKkREQ  
ERKEKKAKVLGMRRGLILAED

>sp|Q9H4D5|NXF3\_HUMAN Nuclear RNA export factor 3 OS=Homo sapiens GN=NXF3 PE=1 SV=1

MSLPSGHTTGHTDQVVQRRARCWDIYQRRFSSRSEPVNPGMHSSSHQQDGAAMHGAHM  
DSPVRYTPYTISPYNRKGSFRKQDQTHVNMEREQKPPERRMEGNMPDGTLGSWFKITVPF  
GIKYNEKWLNLNIQNECSVPFVPEFHYENMHASFFVENASIAAYALKNVSGKIWDEDNEK  
ISIFVNPAGIPHFVHRELKSEKVEQIKLAMNQQCDVSQEALDIQRLPFYPMVNRDTKMA  
SNPRKMAASLDVHEENIPTVMSAGEMDKWKGIEPGEKCADRSPVCTTFSDTSSNINSIL  
ELFPKLLCLDGGQSPRATLCGTEAHKRLPTCKGSFFGSEMLKNLVLQFLQQYYLIYDSGD  
RQGLLSAYHDEACFSLSIPFNPEDSAPSSFCKFFKDSRNIKILKDPYLRGELLKHTKLDI  
VDSLSALPKTQHDLSSFLVDMWYQTEWMLCFSVNGVFKEVEGQSQGSVLAFTRTFIATPG  
SSSSLCIVNDKLFVRDTSHQGTQSALFTLVPTAFSSSVPAFSQEQQKMLPS

>sp|Q8IWE2|NXP20\_HUMAN Protein NOXP20 OS=Homo sapiens GN=FAM114A1 PE=1 SV=2

MSDDAGDTLATGDKAEVTEMPNSDSLPEDAEVHCDsAAVSHEPTPADPRGEGHENAAVQG  
AGAAAIGPPVQPDANALEPPLNGDVTEDTLAECIDSVSLEAEPRSEIPLQEQNYLAVDS  
PPSGGGWAGWGSWGKSLSSASATVGHGLTAVKEKAGATLRIHGVNSGSSEGAQPNTENG  
VPEITDAATDQGAESPPTSPSSASRGMLSaitNVVQNTGKSVLTGGLDALEFIGKKTMN  
VLAESDPGFKRTKTLMERTVSLSQMLREAKEKEKQRLAQQLTMERTAHYGMLFDEYQGLS  
HLEALEILSNESESKVQSFLASLDGEKLELLKNDLISIKDIFAAKELENEENQEEQGLEE  
KGEEFARMLTELLFELHVAATPDKLNKAMKRAHDWVEEDQTVVSVDVAKVSEEETKKEEK  
EEKSQDPQEDKKEEKTKTIEEVYMSSIESLAEVTARCIEQLHKVAELILHGQEEKPAQ  
DQAKVLIKLTTAMCNEVASLSKFTNSLTTVGSNKAEVLNPMISSVLLEGcNSTTYIQD  
AFQLLLPVLQVSHIQTSCLKAQP

>sp|O95158|NXPH4\_HUMAN Neurexophilin-4 OS=Homo sapiens GN=NXPH4 PE=2 SV=3

MRLLPWFLLLFGPWLLRKAVSAQIPESGRPQYLGLRPAAAGAGAPGQQLPEPRSSDGLG  
VGRAWSAWPTNHTGALARAGAAGALPAQRTRKRPsiKAARAKKIFGWGDFYFRVHTLKF  
SLLVTGKIVDHVNGTFSVYFRHNSSSLGNLSVSIVPPSKRVEFGGVWLPGPVPHPLQSTL  
ALEGVLPGLPPLGMAAAAAGPLGGSLLGGALAGPLGGALGVPGAKESRAFCHVEYEKT  
NRARKHRPCLYDPSQVCfTEHTQSQAawLCAKPFKVICIFVSFLSFDYKLVQKVCpDYNF  
QSEHPYFG

>sp|Q9UUK6|NXT1\_HUMAN NTF2-related export protein 1 OS=Homo sapiens GN=NXT1 PE=1 SV=1

MASVDFKTYVDQACRAAEFVNvVYTTMDKRRRLSRLYMGtATLVWNGNAVSGQESLSE  
FFEMLPSEfEQISVVDcQPvHDEATPSQTTVLVVICGSVKFEGNKQRDFNQNfILTAQAS  
PSNTVWKIASDCFRFQDwas

>sp|Q9H208|O10A2\_HUMAN Olfactory receptor 10A2 OS=Homo sapiens GN=OR10A2 PE=2 SV=2

MSFSSLPTeIQSLLfLTfLTIYLVTLMGnCLiILVTLADPMLHSPMYFFLRNLSfLEIGF  
NLVIVPKMLGTLLAQDttISfLGCATQMYFFFFFGVAECfLLATMAYDRYVAICSPLHYP  
VIMNQRTRAKLAAASWFPgFPVATVQTTWLFsFPFCGTNKVNHFCDSPpVLRlVCADTA



LFEIYAIVGITILVVMIPCLLILCSYTHIAAAILKIPSAKGKNKAFSTCSSHLLVVSIFYI  
SLSLTYFRPKSNNSPEGKKLLSLSYTMTPMLNPIIYSLRNNEVKNALSRTVSKALALRN  
CIP

>sp|Q9H209|O10A4\_HUMAN Olfactory receptor 10A4 OS=Homo sapiens GN=OR10A4 PE=2 SV=2  
MMWENWTVSEFVLVSFSALSTELQALLFLLFTIYLVTLMGNVLIILVTIADSALQSPM  
YFFLRNLSFLEIGFNLVIVPKMLGTLIIQDTTISFLGCATQMYFFFFFGAAECCLLATMA  
YDRYVAICDPLHYPVIMGHISCAQLAAASWFSGFSVATVQTTWIFSFPFCGPNRVNHFFC  
DSPPVIALVCADTSVFELEALTATVLFILFPFLLILGSYVRILSTIFRMPSAEGKHQAFS  
TCSAHLVVSLFYSTAILTYFRPQSSASSESKKLLSLSSTVVTMLNPIIYSSRNKEVKA  
ALKRLIHRTLGSQKL

>sp|Q8NH08|O10AC\_HUMAN Olfactory receptor 10AC1 OS=Homo sapiens GN=OR10AC1 PE=3 SV=2  
MDSPSNATVPCGFLQGFSEPHLRPVFLLLLGVHLATLGGNLLILVAVASMPSRQPML  
LFLCQLSAIELCYTLVVPRSLVDLSTPGHRRGSPISFLSCAFQMFMFVALGGAECFLLA  
AMAYDRYVAICHPLRYAAVVTPLCARLALACCLRGLAVSVGLTVAIFHLPFCGSRLLLH  
FFCDITALLHLACTRSYADELPLLGACLVLVLLPSVLILASYGAIAAALRRLRCPKGRGK  
AASTCALHLAVTFLHYGCATFMVYRPRASYSPLDRTLALVYTNVTPLLCPLIYSLRNRE  
ITAALSRVLGRRRPGQAPGGDLREL

>sp|Q8NH80|O10D3\_HUMAN Putative olfactory receptor 10D3 OS=Homo sapiens GN=OR10D3 PE=5  
SV=1  
MEVKNCCMVTEFILLGIPHTEGLEMTLFLVFLPFYACTLLGNVSILVAVMSSARLHTPMY  
FFLGNLSVFDMGFSSVTCPKMLLYLMGLSRLISYKDCVCQLFFFHFLGSIECFLFTVMAY  
DRFTAICYPLRYTVIMNPRICVALAVGTWLLGCIHSSILTSITFTLPYCGPNEVDHFFCD  
IPALLPLACADTSLAQRVSFTNVGLISLVCFLILLSYTRITISILSIRTTEGRRRAFST  
CSAHLIAILCAYGPIITVYLQPTPNPMLGTVVQILMNLVGPMLNPLIYTLRNKEVKTALK  
TILHRTGHVPES

>sp|Q8NGC3|O10G2\_HUMAN Olfactory receptor 10G2 OS=Homo sapiens GN=OR10G2 PE=2 SV=1  
MGKTKNTSLDAVVTDFILLGLSHPPNLRSLFLVFFIIYILTQLGNLLILLTMWADPKLC  
ARPMYILLGVLSFLDMWLSSVTVPRILDFTPSIKAIPFGGCVAQLYFFHFLGSTQCFLY  
TLMAYDRYLAICQPLHYPVLMNGRLCTVLVAGAWVAGSMHGSIQATLTFRLPYCGPNQVD  
YFICDIRAVLRLACADTTVNELVTFVDVRVVAASCFMLILLSYANIVHAILKIRTADGRR  
RAFSTCGSHLIVTVVYVPCIFIYLRAGSKDPLDGAAVFYTVVTPLLNPLIYTLRNQEV  
KSALKRITAG

>sp|Q8NGN4|O10G9\_HUMAN Olfactory receptor 10G9 OS=Homo sapiens GN=OR10G9 PE=3 SV=1  
MSKTSLVTAFLTGLPHAPGLDAPLFGIFLVVYVLTVLGNLLILLVIRVDSHLHTPMYYF  
LTNLSFIDMWFTVTPKMLTLVSPSGRAISFHSCVAQLYFFHFLGSTECFLYTVMSYD  
RYLAISYPLRYTSMMSGSRCALLATSTWLSGSLHSAVQTILTFHLPYCGPNQIQHYLCDA  
PPILKLACADTSANEMVIFVDIGLVASGCFLILVLSYVSIVCSILRIHTSEGRHRAFQTC  
ASHCIVVLCFFVPCVFIYLRPGSRDVGVAIFYTVLTPLLNPVVYTLRNKEVKKAVLK  
LRDKVAHSQGE

>sp|O60403|O10H2\_HUMAN Olfactory receptor 10H2 OS=Homo sapiens GN=OR10H2 PE=2 SV=1  
MLGLNHTSMSEFIVGFSAFPHLQLMLFLLFLLMYLFTLLGNLLIMATVWSERSLHTPMY  
LFLCVLSVSEILYTVAIIPRMLADLLSTQRSIAFLACASQMFFSFSGFTHSFLLTMGY  
DRYVAICHPLRYNVLMSPRGACLVGCSWAGGSVMGMVVTSAIFQLTFCGSHEIQHFLCH  
VPPLKLACGNNVPAVALGVGLVCIMALLGCFLILLSYAFIVADILKIPSAEGRNKAFS

TCASHLIVVIVHYGFASVIYLKPKGPHSQEGDTLMATTYAVLTPFLSPIIFSLRNKELKV  
AMKRFTLSTLYSSGT

>sp|Q8NGY7|O10J6\_HUMAN Putative olfactory receptor 10J6 OS=Homo sapiens GN=OR10J6P PE=5  
SV=1

MRRKNLTEVTEFVFLGFSRFBKHHITLFVVFLILYTLTVAGNAIIMTIICIDRHLHTPMY  
FFLSMLASSKTVYTLFIIPQMLSSFVTQTQPISLAGCTQTFFVTLAINNCFLLTVMGY  
DHYMAICNPLRYRVITSKKVCVQLVCGAFSIGLAMAAVQVTSIFTLPFCHTVVGHFFCDI  
LPVMKLSICINTTINEIINFVRLVFILVPMGLVFISYVLIISTVLKIASAEGWKKTFATC  
AFHLTVVIVHYGCASIAYLMPKSENSIEQDLLLSVT

>sp|Q8NGX6|O10R2\_HUMAN Olfactory receptor 10R2 OS=Homo sapiens GN=OR10R2 PE=3 SV=3

MPQILIFTYLNMFYFFPPLQILAENLTMVTEFLLGFSLLGEIQLALFVVFLFLYLVLIS  
GNVTIISVIGHLKSLHTPMYFFLGILSTSETFYTFVILPKMLINLLSVARTISFNCCALQ  
MFFFLGFAITNCLLLGVMGYDRYAAICHPLHYPTLMSWQVCGKLAAACAIGGFLASLTVV  
NLVFSLPFCSANKVNHYFCDISAVILLACTNTDVNEFVIFICGVLVLPVFLFICVSYLC  
ILRTILKIPSAEGRRKAFSTCASHLSVVIVHYGCASFIYLRPTANYVSNKDRLVTYTYTI  
VTPLNPMVYSLRNKDVQLAIRKVLGKKGSLKLYN

>sp|Q8NGC8|O11H7\_HUMAN Olfactory receptor 11H7 OS=Homo sapiens GN=OR11H7 PE=3 SV=2

MNNSQISTVTQFVLLGFPGPWKIQIIFFSMILLVYIFTLTGNMAIICAVRWDHRLHTPMY  
VLLANFSFLEIWYVCTVPNMLVNFFSKTKTISFSGCFTQFHFFFSLGTECFFLCV MAY  
DRYLAICHPLHYPSIMTGQCGILVSLCWLIGFLGHSISIFFIFQLPFCGPNIIDHFLCD  
VDPLMALSSAPTHIIGHVFHSVSSLFINLTMVYILGSYTLVLRVTLQVPSSAGWQKAIST  
CGSHLVVVSIFYGAIMLMYVSPTPGNSVAMHKLITLIYSVVPVLNPLIYSLRNKDMKYA  
LHHVFCGMRIIQRS

>sp|A6NM03|O2AG2\_HUMAN Olfactory receptor 2AG2 OS=Homo sapiens GN=OR2AG2 PE=3 SV=1

MELRNSTLGSGFILVGLINDSGPELLYATFTILYMLALTSNGLLLAITIEARLHMPMY  
LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGSAEDLLAFMAY  
DRYVAICHPLKYMTLMSPRVCWIMVATSWILASLIAIGHTMYTMHLPCVSWEIRHLLCE  
IPPLLKLACADTSRYELIIYVTGVTFLLLPISAIVASYTLVLFTVLRMPNSNEGRKKALVT  
CSSHLIVVGMFYGAATFMYVLPSSFHSPKQDNIIISVFYTIIVTPALNPLIYSLRNKEVMRA  
LRRVLGKYILLAHSTL

>sp|Q8NG76|O2T33\_HUMAN Olfactory receptor 2T33 OS=Homo sapiens GN=OR2T33 PE=2 SV=1

MEMRNTTPDFILLGLFNHTRAHQVLFMMVLSIVLTSFGNSLMILLIHWDRHLHTPMYFL  
LSQLSLMDMMLVSTTVPKMAADYLTGSKAISRAGCGVQIFLPTLGGGECFLAAMAYDR  
YAAVCHPLRYPTLMSWQLCLRTMSCWLLGAADGLQAVVTLSFPYCGAHEIDHFFCETP  
VLVRLACADTSVFENAMYICCVLMLLVPFSLILSSYGLILAAVLHMRSTEARKKAFATCS  
SHVAVVGLFYGAAIFTYMRPKSHRSTNHDKVVSAFYTMFTPLLNPLIYSVKNSEVKGALK  
RWLGTCVNIKHQQNEAHRSR

>sp|Q8NGL6|O4A15\_HUMAN Olfactory receptor 4A15 OS=Homo sapiens GN=OR4A15 PE=3 SV=3

MELLTNLKFITDPFVCRLRHLSTPSEEHMKNKNVTEFILLGLTQNPEGQKVLVFTFL  
LIYMTIMGNLLIIIVTIMASQSLGSPMYFFLASLSFIDTVYSTAFAPKMIVDLLSEKKT  
SFQGCMAQLFMDHLFAGAEVILLVVMAYDRYMAICKPLHELITMNRRCVLMMLAAWIGG  
FLHSLVQFLFIYQLPFCGPNIIDNFLCDLYPLLKLACTNTYVTGLSMIANGGAICAVTFF  
TILLSYGVILHSLKTSLEGKRKAFYTCASHVTVVILFFVPCIFLYARPNSTFPIDKSMT  
VVLTFITPMLNPLIYTLKNAEMKSAMRKLWSKKVSLAGKWLYHS

>sp|A6NMZ5|O4C45\_HUMAN Olfactory receptor 4C45 OS=Homo sapiens GN=OR4C45 PE=3 SV=1  
MNNVIEFILLGLTHNPQLKFLFVFLITYLITLAGNLFISVIFISPALGSPMYSFPSY  
LFIIDIFCSSIAPKMNFLLISEKNTISFNGCMTQLFTEHFFYYYYYYTLTEIILLSVMA  
YDHYVAIRKPLHYATIMSQPMCGFLMVVAGILGFVHGGIQTFLFIAQLPFCGPNVINHFMC  
DLVPLLELACTDHTLGLPLIAANSGSLCFLIFSMLVASVYIILCFLRTHSSEGRRKALSS  
CASHIFIVILFFVPFSYLYLRPTSFPPTDKAVTVFCTLFTPMLNPLIYTLKNKEVKNVIKK  
LWKQIMTTDDK

>sp|Q8NGB8|O4F15\_HUMAN Olfactory receptor 4F15 OS=Homo sapiens GN=OR4F15 PE=2 SV=1  
MNGMNHSSVSEFVFMGLTNSREIQLLLFVFSLLFYFASMMGNLVIVFTVTMDAHLHSPMY  
FLLANLSIIDMAFCSITAPKMICDIFKKHKAISFRGCITQIFFSHALGGTEMVLLIAMAF  
DRYMAICKPLHYLTMSPRMCLYFLATSSIIGLIHSLVQLVFVVDLPFCGPNIFDSFYCD  
LPRLLRLACTNTQELEFMVTVNSGLISVGSFVLLVISYIFILFTVWKHSSGGLAKALSTL  
SAHVTVVILFFGPLMFFYTWPSPTSHLDKYLAIFDAFITPFLNPVIYTFRNKDMKVAMRR  
LCSRLAHFTKIL

>sp|Q8NGJ7|O51A2\_HUMAN Olfactory receptor 51A2 OS=Homo sapiens GN=OR51A2 PE=3 SV=1  
MSIINTSYVEITTFVLVGMPLGEYAHIWISIPICSMYLIAILGNGTILFIKTEPSLHGP  
MYFSLMLAMSDLGLSSSLPTVLSIFLNFAPETSSSACFAQEFFIHGFSVLESSVLLIM  
SFDRFLAIHNPLRYTSILTTVRVAQIGIVFSFKSMLLVLPFPFTLRLRYCKKNQLSHSY  
CLHQDVMKLACSDNRIDVIYGFAGLCLMVDFILIAVSYTLILKTVPGIASKKEELKALN  
TCVSHICAVIIFYLPIINLAVVHRFAGHVSPLINVLMANVLLVPPLMKPIVYCVKTKQI  
RVRVVAKLCQWKI

>sp|Q9Y5P0|O51B4\_HUMAN Olfactory receptor 51B4 OS=Homo sapiens GN=OR51B4 PE=2 SV=3  
MWYNNASGPFLLTGLGSEAVHYRISMSFFVIYFSVLFNGTLLVLINWHDHSLHEPMYYF  
LAMLADTDLGMTFTTMTPTVLGVLLLDQREIAHAACFTQSFHSLAIVESGILLVLAYDCF  
IAIRTPLRNYCILTNSRVMNIGLVLMRGFMSILPIILSLYCYPCGSRALLHTFCLHQD  
VIKLACADITFNHIYPPIQTSLTVFLDALIIIFSYYILILKTMGIASGQEEAKSLNLCVS  
HISCVLVFHITVMGLSFIHRFGKHAPHVVPITMSYVHFLPPFPVNPPIYSIKTKQIQRSI  
IRLFSGQSRA

>sp|Q9H343|O51I1\_HUMAN Olfactory receptor 51I1 OS=Homo sapiens GN=OR51I1 PE=2 SV=1  
MLGLNGTPFPQATLQLTGIPGIQTGLTWVALIFCILYMISIVGNLSILTLVFWEPALHQP  
MYFSLMLALNDLGVSFSTLPTVISTFCFNYNHVAFNACLVQMFFIHTFSFMESGILLAM  
SLDRFVAICYPLRYVTVLTHNRILAMGLILTKSFTTLFPFPFVVKRLPFCKGNVLHHSY  
CLHPDLMKVACGDIHVNNIYGLLVIIIFTYGMDSFILLSYALILRAMLVIIISQEQRLKAL  
NTCMSHICAVLAFYVPIIAVSMIHRFWKSAPPVVHVMSNVYLFVPPMLNPPIYSVKTKE  
IRKGILKFFHKSQA

>sp|Q8NGJ5|O51L1\_HUMAN Olfactory receptor 51L1 OS=Homo sapiens GN=OR51L1 PE=3 SV=1  
MGDWNNSDAVEPIFILRGFPGLGYVHWSLSILFCLAYLVAFMGNVITLSVIWIESSLHQP  
MYFISILAVNDLGMSTLPTMLAVLWLDAPETQASACYAQLFFIHTFTFLESSVLLAM  
AFDRFVAICHPLHYPTILTNSVIGKIGLACLLRSLGVVLPPTLLLRHYHYCHGNALSHAF  
CLHQDVLRLSCTDARTNSIYGLCVVIATLGVDISIFILLSYVLILNTVLDIASREEQLKAL  
NTCVSHICVVLIFFPVPIGVSMVHRFGKHLSPIVHILMADIYLLPPVLNPVYSVRTKQ  
IRLGILHKFVLRRRF

>sp|Q8NH59|O51Q1\_HUMAN Olfactory receptor 51Q1 OS=Homo sapiens GN=OR51Q1 PE=2 SV=2  
MSQVTNTTQEGIYFILTDPGFEASHIWISIPVCCLYTISIMGNTTILTVIRTEPSVHQR

MYLFLSMLALTDLGLTLTTLPTVMQLLWFNVRRISSEACFAQFFFLHGFSEFMESSVLLAM  
SVDCYVAICCPHYASILTNEVIGRTGLAIICCCVLAVLPSLFLLKRLPFCHSHLLSRSY  
CLHQDMIRLVCADIRLNSWYGFAALLIIIVDPLLIVISYTLILKNILGTATWAERLRAL  
NNCLSHILAVLVLYIPMVGSMTHRFKASPLVHVIMANIYLLAPPVMNPITYSVKNKQ  
IQWGMLNFLSLKNMHSR

>sp|Q96RD2|O52B2\_HUMAN Olfactory receptor 52B2 OS=Homo sapiens GN=OR52B2 PE=2 SV=3  
MSHTNVTIFHPAVFVLPGLPGLEAYHIWLSIPLCLIIYITAVLGNSILIVVIVMERNLHVP  
MYFFLSMLAVMDILLSTTTVPKALAIFWLQAHNIAFDACVTQGFFVHMMFVGESAILLAM  
AFDRFVAICAPLRYTTVLTWPVVGRIALAVITRSFCIIFPVIFLLKRLPFCLTNIVPHSY  
CEHIGVARLACADITVNIWYGFSVPIVMVILDVILIAVSYSILRAVFRLPQDARHKAL  
STCGSHLCVILMFYVPSFFTLLTHHFGRNIPQHVHILLANLYVAVPPMLNPITYGVKTKQ  
IREGVAHRFFDIKTWCCTSPLGS

>sp|Q8NGK2|O52B4\_HUMAN Olfactory receptor 52B4 OS=Homo sapiens GN=OR52B4 PE=3 SV=2  
MPTVNHSGETSHTVFHLLGIPGLQDQHMWISIPFFISYVTALLGNSLLIFIILTKRSLHEP  
MYFLCMLAGADIVLSTCTIPQALAIWFRAGDISLDRCTQLFFIHSFISESGILLVM  
AFDHYAICYPLRYTTILTNALIKKICVTVSLRSYGTIFPIIFLLKRLTFCQNNIIPHTF  
CEHIGLAKYACNDIRINIWYGFSILMSTVVLDDVILFISYMLILHAVFHMPSPDACHKAL  
NTFGSHVCIIILFYGSGIFTILTQRFGRHIPPCIHIPLANVCILAPPMLNPITYGIKTKQ  
IQEQVVQFLFIKQK

>sp|Q9H346|O52D1\_HUMAN Olfactory receptor 52D1 OS=Homo sapiens GN=OR52D1 PE=2 SV=1  
MSDSNLSNHLPDFTFLTGIPGLEAAHFWIAIPFCAMYLVALVGNAALILVIAMDNALHA  
PMYFLCLLSLTDLALSSTTVPKMLAILWLHAGEISFGGCLAQMFCVHSIYALESSILLA  
MAFDRYVAICNPLRYTTILNHAVIGRIGFVGLFRSVAIVSPFIFLLRRLPYCGHRVMHT  
YCEHMGIARLACANITVNIYGLTVALLAMGLDSILIAISYGFILHAVFHLP SHDAQHKA  
LSTCGSHIGIILVFYIPAFFSFLTHRFGHHEVPKHVHIFLANLYVLPVPPVLPNPILYGART  
KEIRSRLKLLHLGKTSI

>sp|Q8NGJ4|O52E2\_HUMAN Olfactory receptor 52E2 OS=Homo sapiens GN=OR52E2 PE=3 SV=2  
MFLPNDTQFHPSSFLLLGPGLDLHIWIGFPFCVYMIALIGNFTILLVIKTDSSLHQP  
MFYFLAMLATTDVGLSTATIPKMLGIFWINLRGIIFEACLTQMFFIHNFTLMESAVLVAM  
AYDSYVAICNPLQYSAILTNKVSVIGLGVFVRALIFVIPSILLILRLPFCGNHVIPHTY  
CEHMGLAHLSCASIKINIYGLCAICNLVFDITVIALSYVHILCAVFRLP THEARKSLS  
TCGSHVCVILAFYTPALFSFMTHRFGRNVPRYIHILLANLYVVVPPMLNPVIYGVRTKQI  
YKCVKKILLQEQQMEKEEYL IHTRF

>sp|Q96RD3|O52E6\_HUMAN Olfactory receptor 52E6 OS=Homo sapiens GN=OR52E6 PE=3 SV=2  
MPIANDTQFHTSSFLLLGPGLDVHIWIGFPFFSVYLIALLGNAAIFFVIQTEQSLHEP  
MYYCLAMLDSDLSLSTATIPKMLGIFWFNIKEISFGGYLSQMFFIHFFTVMESIVLVAM  
AFDRYIAICKPLWYTMILTSKIIISLIAGIAVLRSLYMPIPLVLLLRLPFCGHRIIPHTY  
CEHMGIARLACASIKVNIMFGLGSISLLLLDVLLIILSHIRILYAVFCLPSWEARLKALN  
TCGSHIGVILAFSTPAFFSFFTHCFGHDIPQYIHIFLANLYVVVPPTLNPVIYGVRTKHI  
RETVLRIFFKTDH

>sp|Q8NH67|O52I2\_HUMAN Olfactory receptor 52I2 OS=Homo sapiens GN=OR52I2 PE=2 SV=3  
MCQQILRDCILLIHHLICINRKKVSLVMLGPAYNHTMETPASFLLVGIPGLQSSHLWLATS  
LSAMYIALLGNTIIVTAIWMSTRHEP MYCFLCVLAADVIMASSVVPKMVSIFCSGDS  
SISFSACFTQMFFVHLATAVETGLLLTMAFDRYVAICKPLHYKRILTPQVMLGMSMAITI

RAIIAITPLSWMVSHLPFCGSNNVVHSYCEHIALARLACADVPVSSLYSLIGSSLMVGSD  
VAFIAASYILILKAVFGLSSKTAQLKALSTCGSHVGMALYYLPGMASIYAAWLQGQDVVP  
LHTQVLLADLYVIIIPATLNPIIYGMRTKQLRERIWSYLMHVLFDHNSNLGS

>sp|Q8NH60|052J3\_HUMAN Olfactory receptor 52J3 OS=Homo sapiens GN=OR52J3 PE=3 SV=2  
MFYHNKSIFHPVTFFLIGIPGLEDFHWMISGPFCSVYLVALLG NATILLVIKVEQTLREP  
MFYFLAILSTIDLALSTTSVPRMLGIFWFDAHEINYGACVAQMFLIHAFTGMEAEVLLAM  
AFDRYVAVCAPLHYATILTSQVLVGISMCIVIRPVLLTLP MVYLIYRLPFCQAHIIAHSY  
CEHMGIAKLSCGNIRINGIYGLFVVSFVNLVLIGISYVYILRAVFRLP SHDAQLKALS  
TCGAHVGVICVFYIPSVFSFLTHRFHQIPGYIHILVANLYLIIPPSLNPIIYGVRTKQI  
RERVLYVFTKK

>sp|Q8NGK3|052K2\_HUMAN Olfactory receptor 52K2 OS=Homo sapiens GN=OR52K2 PE=2 SV=2  
MSASNITLTHPTAFLLVGIPGLEHLHIWISIPFCLAYTLALLGNCTLLLLIQADAALHEP  
MYLFLAMLA AIDLVLSSSALPKMLAIFWFRDREINFFACLAQMFFLHSFSIMESAVLLAM  
AFDRYVAICKPLHYTKVLTGSLITKIGMAAVARAVTLM TPLPFLRCFHYCRGPVIAHCY  
CEHMAVRLACGDTSFNNIYGIAMFIVLDLLL VILSYIFILQAVLLASQEARYKAF  
GTCVSHIGAILAFYTTVVISSVMHRVARHAAPHVHILLANFYLLFPPMVNPIIYGVKTKQ  
IRESILGVFPRKDM

>sp|Q9NQ35|NRIP3\_HUMAN Nuclear receptor-interacting protein 3 OS=Homo sapiens GN=NRIP3  
PE=1 SV=1  
MFYSGLLTEGGRKETDMREAASLRQQRRMKQAVQFIHKDSADLLPLDGLKKLGSSKDMQP  
HNILQRRMETNLSKLRSGPRVPWASKTNKLNQAKSEGLKKSEEDDMILVSCQCAGKDVK  
ALVDTGCLYNLISLACVDRLGLKEHVKSHKHEGEKLSLPRHLKVVGQIEHLVITLGSRLRL  
DCPAAVDDNEKNLSLGLQTLRSLKCIINLDKHRLIMGKTDKEEIPFVETVSLNEDNTSE  
A

>sp|P54845|NRL\_HUMAN Neural retina-specific leucine zipper protein OS=Homo sapiens GN=NRL  
PE=1 SV=1  
MALPPSPLAMEYVNDFDLMKFEVKREPSEGRPGPPTASLGSTPYSSVPPSPTFSEPGMVG  
ATEGTRPGLLELYWLATLQQQLGAGEALGLSPEEAMELLQQGGPVPVDGPHGYYPGSPEE  
TGAHQVQLAERFSDAALVSM SVRELNRQLRGCRDEALRLKQRRRTLKNRGYAQACRSKR  
LQQRGLEAERARLAAQLDALRAEVARLARERDLYKARCDRLTSSGPGSGDP SHLFL

>sp|P58400|NRX1B\_HUMAN Neurexin-1-beta OS=Homo sapiens GN=NRXN1 PE=1 SV=2  
MYQRMRLRCGAELGSPGGGGGGGGGAGGRLALLWIVPLTSLGLGVAWGASSLGAHHIH  
HFHGSSKHHSVP IAIYRSPASLRGGHAGTTYIFSKGGGQITYKWPPNDRPSTRADRLAIG  
FSTVQKEAVLVRVDSSSGLGDYLELHIHQGKIGVKFNVGTDDIAIESNAIINDGKYHV  
RFRTRSGGNATLQVDSWPVIERYPAGRQLTIFNSQATIIIGGKEQGQPFQGLSGLYYNGL  
KVLNMAAENDANIAIVGNVRLVGEVPSSMTTESTATAMQSEMSTS IMETTTLATSTARR  
GKPPTKEPISQTTDDILVASAECPSDDDEDIDCEPSSGGLANPTRAGGREPYPGSAEVIR  
ESSSTGMVVGIVAAAAALCILILLYAMYKYRNRDEGSYHVDESRNYISNSAQSN GAVVKE  
KQPSSAKSSNKNKNKDKEYYV

>sp|Q9P2S2|NRX2A\_HUMAN Neurexin-2 OS=Homo sapiens GN=NRXN2 PE=2 SV=1  
MASGSRWRPTPPPLLLLLLLALAARADGLEFGGGPGQWARYARWAGAASSGELSFSRLTN  
ATRALLLYLDGGDCDFLELLLDGRLRLRFTLSCAEPATLQLDTPVADDRWHMVLLTRD  
ARRTALA VDGEARAAEVRSKRREMQVASDLFVGGI PPDVRLSALTSTVKYEPPFRGLLA  
NLKLGERPPALLGSQGLRGATADPLCAPARNPCANGGLCTVLAPGEVGCDCSHTGFGGKF

CSEEHHPMEGPAHLTLNSEVGSLLFSEGGAGRGAGDVHQPTKGKEEFVATFKGNEFFCY  
DLSHNPIQSSTDEITLAFRTLQRNGLMLHTGKSADYVNLCLKSGAVWLVINLGSGAFEAL  
VEPVNGKFNDNAWHDVVRTRNLQRHAGIGHAMVNKLHYLVTISVDGILTTTGYTQEDYTM  
LGSDDDFFYIGGSPNTADLPGSPVSNFMGCLKDVVYKNNDFKLELSRLAKEGDPKMKLQG  
DLSFRCEDVAALDPVTFESPEAFVALPRWSAKRTGSISLDFRTTEPNGLLLFSQGRRAGG  
GAGSHSSAQRADYFAMELLDGHLYLLLDMGSGGIKLRASSRKVNDGEWCHVDFQRDGRKG  
SISVNSRSTPFLATGDSEILDLESELYLGGLEGGGRVDLPLPEVWTAALRAGYVGCVRD  
LFIDGRSRDLRGLAEAQGAVGVAPFCSRETCLKCASAPCRNGGVCREGWNRFCDCIGTG  
FLGRVCEREATVLSYDGSYMKIMLPNAMHTEAEDVSLRFMSQRAYGLMMATTRESADT  
LRLELDGGQMKLTVNLDCLRVGCAPSKGPETLFAHGKLNENEWHTVRVVRGKSLQLSVD  
NVTVEGQMAGAHMRLEFHNIEGTIMTERRFISVVPNSFIGHLSGLVFNGQPYMDQCKDGD  
ITYCELNARFGLRAIVADPVTFSRSSYLALATLQAYASMHFFQFKTTAPDGLLLFNSG  
NGNDFIVIELVKGYIHYVFDLGNGPSLMKGNSDKPVNDNQWHNVVSRDPGNVHTLKIDS  
RTVTQHSNGARNLDLKGELYIGLSKNMFSNLPKLVASRDGFQGCCLASVDLNGRLPDLIA  
DALHRIGQVERGCDGPSTTCTEESCANQGVCLQQWDGFTCDCTMTSYGGPVCNDPGTTYI  
FGKGGALITYTWPNDRPSTRMDRLAVGFSTHQRSVLRVDSASGLGDYQLHIDQGTV  
GVIFNVGTDDITIDEPNAIVSDGKYHVVRFTRSGGNATLQVDSWPVNERYPAGNFDNERL  
AIARQIRIPYRLGRVDEWLLDKGRQLTIFNSQAAIKIGGRDQGRPFQGVSGLYYNGLKV  
LALAAESDPNVRTEGHLRLVGEGPSVLLSAETTATLLADMATTIMETTTMATTTRRG  
RSPTLRDSTTQNTDDLVAECPDDEDELEECEPSTGGELILPIITEDSLDPPPVATRS  
PFVPPPTFYFPLTGVGATQDTLPPPAARRPPSGGPCAERDDSDCEEP EASGFASGEV  
FDSSLPTDDEDFYTTFPLVTDRTLLSPRKPAPRPNLRTDGATGAPGVLFAPSAPAPNL  
PAGKMNHRDPLQPLENPPPLPGAPTSFEPRRPPPLRPGVTSAPGFPHLPTANPTGPGER  
GPPGAVEVIRESSSTGMVVGIVAAAALCILILLYAMYKYRNRDEGSYQVDQSRNYISNS  
AQSNGAVVKEKAPAAPKTPSKAKKNKDKEYV

>sp|Q9NRX3|NUA4L\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4-like  
2 OS=Homo sapiens GN=NDUFA4L2 PE=3 SV=1

MAGASLGARFYRQIKRHPGIIPMIGLICLGMGSAALYLLRLALRSPDVCWDRKNNPEPWN  
RLSPNDQYKFLAVSTDYKCLKKDRPDF

>sp|P80303|NUCB2\_HUMAN Nucleobindin-2 OS=Homo sapiens GN=NUCB2 PE=1 SV=2

MRWRTILLQYCFLLITCLLTALAEVPIIDIDKTKVQNIHPVESAKIEPPDTGLYDEYLKQ  
VIDVLETDKHFREKLQKADIEEIKSGRLSKELDLVSHHVRTKLDLKRQEVGRLRLIKA  
KLDSLQDQIGMDHQALLKQFDHLNHLNPKFESTDLMLIKAATSDLEHYDKTRHEEFKKY  
EMMKEHERREYLKTLNEEKREKEESKFEEMKKKHENHPKVNHPGSKDQLKEVWEETDGLD  
PNDFDPKTFKFLHDVNSDGFLDEQEALFTKELEKVYDPKNEEDMVEMEEERLRMREH  
VMSEVDTNKDRLVTL EEFLKATEKKEFLEPDSWETLDQQQFFTEEELKEYENI IALQENE  
LKKKADELQKQKEELQRQHDQLEAQKLEYHQVIQQMEQKKLQQGIPPSGPAGELKFEPHI

>sp|Q9BQG2|NUD12\_HUMAN Peroxisomal NADH pyrophosphatase NUDT12 OS=Homo sapiens GN=NUDT12  
PE=1 SV=1

MSSVKRSLKQEI VTQFHCSAAEGDIAKL TGILSHSPSLLNETSENGWTALMYAARNGHPE  
IVQFLLEKGCDSIVNKSQTALDIAVFWGYKHIANLLATAKGGKKPWFLTNEVEECENY  
FSKTL LDRKSEKRNNSDWLLAKESH PATVFILFSDLNPLVTLGGNKESFQQPEVRLCQLN  
YTDIKDYLAQPEKITLIFLGELEIKDKLLNYAGEVPREEEDGLVAWFALGIDPIAAEEF  
KQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSRYKFCPTCGNATKIEEGGYKR

LCLKEDCPSLNGVHNTSYPRVDPVVMQVIHPDGTKCLLGRQKRFPPGMFTCLAGFIEPG  
ETIEDAVRREVEEESGVKVGHVQYVACQPWMPSSLMIGCLALAVSTEIKVDKNEIEDAR  
WFTREQVLDVLTGKGQQAFFVPPSRAIAHQLIKHWIRINPNL

>sp|095848|NUD14\_HUMAN Uridine diphosphate glucose pyrophosphatase OS=Homo sapiens  
GN=NUDT14 PE=1 SV=2

MERIEGASVGRCAASPYLRPLTLHYRQNGAQKSWDFMKTHDSVTVLLFNSSRRSLVLVKQ  
FRPAVYAGEVERRFPGSLAAVDQDGPRELQPALPGSAGTVELCAGLVDQPGLSLEEVAC  
KEAWEECGYHLAPSDLRVATYWSGVGLTGSRQTMFYTEVTDAGRSGPGGGLVEEGELIE  
VVHLPLEGAQAFADDPDIPKTLGVIFGVSWFLSQVAPNLDLQ

>sp|POC025|NUD17\_HUMAN Nucleoside diphosphate-linked moiety X motif 17 OS=Homo sapiens  
GN=NUDT17 PE=3 SV=2

MAEVRVQLLLSRRPESVSFARSVCGLLGAGPGLGTWPIHCSLKRGRVLSSRPFGASAR  
LPLQRPPFCPFAALEERPRVPGAELPTDRGVDLGVAVILQSSDKTVLLTRRARTLSVSPN  
LWVPPGGHVELEEELLDGGLRELWEESGLHLPQGQFSWVPLGLWESAYPPRLSWGPKYH  
HIVLYLLVISQESQQQLQARIQPNPNEVSALMWLTPDVAAAATAEDGTETPGLLPQDLQ  
PSVLAVELEEDGRARPLVLHMSTLLRMIPTMAEDKERVSTGTFALKLWLQHLGRTPPPC  
KSAAYLDPGPAKEEWNMDPLPPNQSGSK

>sp|Q9UKK9|NUDT5\_HUMAN ADP-sugar pyrophosphatase OS=Homo sapiens GN=NUDT5 PE=1 SV=1

MESQEPTESSQNGKQYIISEELISEGKWVLEKTTYMDPTGKTRTWESVKRTRRKEQTAD  
GVAVIPVLQRTLHYECIVLVKQFRPPMGGYCIEFPAGLIDDGETPEAAALRELEETGYK  
GDIAECSPAVCMDPLSNCTIHIVTVTINGDDAENARPKPKPGDGEFVEVISLPKNDLLQ  
RLDALVAEEHLTVDARVYSYALALKHANAKPFEVPFLKF

>sp|Q7Z417|NUPF2\_HUMAN Nuclear fragile X mental retardation-interacting protein 2 OS=Homo  
sapiens GN=NUFIP2 PE=1 SV=1

MEEKPGQPQPQHSHHHHPHHHPQQQQQPHHHHHYFYFNHSHHHHHHHHQQPHQYLQH  
GAEGSPKAQPKPLKHEQKHTLQHQETPKKKKTGYGELNGNAGEREISLKNLSSDEATNPI  
SRVLNGNQVVDTSLKQTVKANTFGKAGIKTNFIQKNSMDKKNKSYENKSGENQSVDK  
SDTIPIPNGVVTNNSGYITNGYMGKGADNDGSGSESGYTTPKKRKARRNSAKGCENLIV  
QDKIMQQETSVP TLKQGLETFKPDYSEQKGNRVDGSKPIWKYETGPGGTSRGKPAVGDM  
RKSSDSKPGVSSKKFDDRPKGKHASAVASKEDSWTLFKPPPVPFVDNSSAKIVPKISYAS  
KVKENLNKTIQNSSVSPTSSSSSSSTGETQTQSSSRLSQVPMSALKSVTSANFSNGPVL  
AGTDGNVYPPGGQPLLTAAANTLTPISSGTDVLQDMSLTSAAVEQIKTSLFIYPSNMQT  
MLLSTAQVDLPSQTDQNLGDIQNWGLSFINEPSAGPETVTGKSSEHKVMEVTFQGEY  
PATLVSQGAELIPSGTEHPVFPKAYELEKRTSPQVLGSILKSGTTSES GALSLP SHIGD  
LQKADTSSQ GALVFLSKDYEIESQNPLASPTNTLLGSAKEQRYQRGLERNDSWGSFDLRA  
AIVYHTKEMESIWNLQKQDPKRIITYNEAMDSPDQ

>sp|P37198|NUP62\_HUMAN Nuclear pore glycoprotein p62 OS=Homo sapiens GN=NUP62 PE=1 SV=3

MSGFNFGGTGAPTGGFTFGTAKTATTTTPATGFSFSTSGTGGFNFGAPFPATSTPSTGLF  
SLATQTPATQTTGFTGTATLASGGTGFSGLGIGASKLNLNTAATPAMANPSGFGLGSSN  
LTNAISSTVTSSQGTAPTGFVFGPSTTSVAPATTSGGFSFTGGSTAQPSGFNIGSAGNSA  
QPTAPATLPFTPATPAATTAGATQPAAPTPTATITSTGPSLFASIATAPTSSATTGLSLC  
TPVTTAGAPTAGTQGFSLKAPGAASGTSTTTSTAATATATTTSSSSTTG FALNLKPLAPA  
GIPSNTAAAVTAPPGPGAAAGAAASSAMTYAQLES LINKWSLELEDQERHFLQQATQVNA  
WDRTLIENGKITSLHREVEKVKLDQKRLDQELDFILSQKLELDLLSPLEELVKEQSGT

IYLQHADEEREKTYKLAENIDAQLKRMAQDLKDIIEHLNTSGAPADTSDPLQQICKILNA  
HMSDLQWIDQNSALLQRKVEEVTKVCEGRRKEQERSFRITFD

>sp|A6NF83|NUPR2\_HUMAN Nuclear protein 2 OS=Homo sapiens GN=NUPR2 PE=2 SV=1

MEAPAERALPRLQALARPPPISYEEELYDCLDYIYLDRFPACGAGRSKGRTRREQALRT  
NWPAPGGHERKVAQKLLNGQRKRRQRQLHPKMRTRLT

>sp|Q5VZ03|NXNL2\_HUMAN Nucleoredoxin-like protein 2 OS=Homo sapiens GN=NXNL2 PE=2 SV=1

MVDILGERHLVTCKGATVEAEALQNKVVALYFAAARCAPSRDFTPLLCDFYTALVAEAR  
RPAPFEVVFVSADGSSQEMLDFMRELHGAWLALPFHDPYRHELKRYNVTAIPKLIVKQ  
NGEITNKGRKQIRERGLACFQDWVEADIFQNFSV

>sp|Q6DKJ4|NXN\_HUMAN Nucleoredoxin OS=Homo sapiens GN=NXN PE=1 SV=2

MSGFLEELLGEKLVTTGGGEEVDVHSLGARGISLLGLYFGCSLSAPCAQLSASLAIFYGRL  
RGDAAAGPGPGAGAGAAAEPEPRRRLIIVFVSSDQDQRQWQDFVRDMPWLALPYKEKHKR  
LKLWNKYRISNIPSLIFLDATTGKVVCNGLLVIRDDPEGLEFPWGPKEPREVIAGPLLR  
NNGQSLESSSLEGSHVGVYSAHWCPPCRSLTRVLVESYRKIKEAGQNFETIFVSADRSE  
ESFKQYFSEMPWLAVPYTDEARRSRLNRLYGIQGIPTLIMLDPQGEVITRQGRVEVLNDE  
DCREFPWHPKPVLELSDSNAAQLNEGPCLVLFVDEDDGESEAAKQLIQPIAEKIIAKYK  
AKEEEAPLLFFVAGEDDMTDSLDRDYNLPEAAPLLTILDM SARAKYVMDVEEITPAIVEA  
FVNDFLAEKLKPEPI

>sp|Q96DL1|NXPE2\_HUMAN NXPE family member 2 OS=Homo sapiens GN=NXPE2 PE=2 SV=2

MVEKILIHRIITLFPNAIARKLLMLTFILIFWIIYLASKDHTKFSFNLENHIIILNQNI  
FKKYSHSETPLCPAVSPKETELRIKDIMEKLDQQIPRPPTHVNTTTSATHSTATILNPQ  
DTYCRGDQLDILLEVRDHLGHRKQYGGDFLRARMYSTALMAGASGKVTDFNNGTYLVSFT  
LFWEGQVSLSLLIHPSEGVSALWRARNQGCRIIFTGLFANRSSNVFTECGLTLTNAE  
LCQYMDDRDQEAFCYVRPQHMPCEALTHMTTRTRNISYLSKEEWRLFHRSNIGVEMMKNF  
TPIEIVPCNKSENICKNCQIGMKTPFPGSYTLKKMWITAFCKQIKFNETKNINDCLERKL  
IYLMGDSTLHQWIIYQLKAVKTLKYFDHHGAGIFKTHVLLDVERHILIQWKKHGHFPVTK  
KLFSVKDENYIPREIDQVAGDKNTAIVITLGGHFRPFPINIFIRRAINIQKAIERLFLRS  
PETKVILKTENTREIEQNAEMFSDFHGYIQNLIIRDIFVDLNVGIIDAWDMTIAYCTNNA  
HPPDYVIQNIQGMFLNYIC

>sp|Q9NPJ8|NXT2\_HUMAN NTF2-related export protein 2 OS=Homo sapiens GN=NXT2 PE=1 SV=1

MATSLDFKTYVDQACRAAEFVNIYYETMDKRRRALTRLYLDKATLIWNGNAVSGLDALN  
NFFDTLPSSEFQVNMDCQPVHEQATQSQTTLVVTSQTVKFDGNKQHFFNQNFLTAQS  
TPNNTVWKIASDCFRFQDWSSS

>sp|Q8NGY0|O10X1\_HUMAN Olfactory receptor 10X1 OS=Homo sapiens GN=OR10X1 PE=3 SV=2

MVLNVYCCFFQISDIQTMKINQITLKEFILVGFSVYPHVQTFLFVVFCLYLLTLAGNLI  
IMGLTWVDRSLHTPMYLFLSALSFSETCYTLTIVPKMEDLLAKDRSISVTGCSLQMCFF  
LGLGGTNCIILTMGYDRFLAICNPLRYPLMTNIVCGQLVASACTAGFFISLTETALIF  
RDSFCRPNLVKHFFCHMLAVIRLSCIDSNHTEFIITLISVSGLLGTLILLITDVFIIIST  
VLRIPSAEGKQKAFTTCASHLTVVIIHFGFASIVYLKPEASGDDTLIAVPYTVITPFLSP  
IIFSLRNKDMKNAFRMMGNTVALKK

>sp|Q8NGC1|O11G2\_HUMAN Olfactory receptor 11G2 OS=Homo sapiens GN=OR11G2 PE=3 SV=2

MHFLSQNDLNINLIPHLCLHRHSVIAGAFTIHRHMKIFNSPSNSSTFTGFILLGFPCPRE  
GQILLFVLFTVVYLLTLMGNGSIIICAVHWDQRLHAPMYILLANFSFLEICYVTSTVPSML  
ANFLSDTKIISFSGCFLQFYFFFSLSGTECFFLAVMAFDRYLAICRPLRYPTIMTRRLCT



NLVVNCWVLGFIWFLIPIVNIQSMSFCGSRIIDHFLCDPAPLLTLTCKKGPVIELVFSVL  
SPLPVFMLFLFIVGSYALVVRVLRVPSAAGRRKAFSTCGSHLAVVSLFYGSVLVMYGSP  
PSKNEAGKQKQTVTLFYSVVTPLLNPVIYSLRNKDMRKALKKFWGT

>sp|PODN82|012D1\_HUMAN Olfactory receptor 12D1 OS=Homo sapiens GN=OR12D1 PE=3 SV=1  
MLNTTSVTEFLLLGVTDIQELQPFLFVVFLTIYFISVAGNGAILMIVISDPRLHSPMYFF  
LGNLSCLDICYSSVTLPKMLQNFLSAHKASIFLGCISQLHFFHFLGSTEAMLLAVMAFDR  
FVAICKPLRYTVIMNPQLCTQMAITIWMIGFFHALLHSLMTSRLNFCGSNRIYHFFCDVK  
PLLKLSNQWLLSTVTGTIAMGPFFLTLLSYFYIITHLFFKTHSFMSLRKALSTCASHFMV  
VILLYAPVLFYIIHHASGTSMDQDRITAIMYTVVTPVLNPLIYTLRNKEVKGAFNRAMKR  
WLPKEILK

>sp|Q8NGS4|013F1\_HUMAN Olfactory receptor 13F1 OS=Homo sapiens GN=OR13F1 PE=3 SV=1  
MFPANWTSVKVFFFLGFFHYPKVQVIIFAVCLLMYLITLLGNIFLISITILDSHLHTPMY  
LFLSNLSFLDIWYSSSALSPMLANFVSGRNTISFSGCATQMYLSLAMGSTECVLLPMAY  
DRYVAICNPLRYPVIMNRRTCVQIAAGSWMTGCLTAMVEMMSVLPLSLCGNSIINHFTCE  
ILAILKLVCVDTSLVQLIMLVISVLLPMPMLLICISYAFILASILRISSVEGRSKAFST  
CTAHLMVVVLFGTALSMHLKPSAVDSQEIDKFALVYAGQTPMLNPIIYSLRNKEVKVA  
LKKLLIRNHFNTAFISILK

>sp|Q8NGT2|013J1\_HUMAN Olfactory receptor 13J1 OS=Homo sapiens GN=OR13J1 PE=2 SV=1  
MEPLNRTEVSEFFLKGFSGYPALHLLFPLCSAMYLVTLLGNTAIMAVSVLDIHLHTPVY  
FFLGNLSTLDICYTPTFVPLMLVHLLSSRKTISSFAVCAIQMCLSLSTGSTECLLAITAY  
DRYLAICQPLRYHVLMSHRLCVLLMGAAWLCLLSVTEMVISMRLPFCGHHVVSHTCK  
ILAVLKLACGNTSVSEDFLLAGSILLPVPLAFICLSYLLILATILRVPSAARCKAFST  
CLAHLAVVLLFYGTIIFMYLKPKSKEAHISDEVFTVLYAMVTMLNPTIYSLRNKEVKEA  
ARKVWGRSRASR

>sp|Q9UGF5|014J1\_HUMAN Olfactory receptor 14J1 OS=Homo sapiens GN=OR14J1 PE=2 SV=1  
MVNLTSMSGFLLMGFSDEKRLQILHALVFLVTYLLALTGNLLIITITITVDRLHSPMYFF  
LKHLSLDLDCFISVTVPQSIANSMLMGNGYISLVQCILQVFFFIALLASSEVAITVMSYDR  
YAAICQPLHYETIMDPRACRHAVIAVWIAGGLSGLMHAAINFSIPLCGKRVIHQFFCDVP  
QMLKLACSYEFINEIALAAFTTSAAFICLISIVLSYIRIFSTVLRIPSAEGRTKVFSTCL  
PHLFVATFFLSAAGFEFLRLPSDSSSTVDLVFSVFYTVIPPTLNPVIYSLRNDSMKAAALR  
KMLSKEELPQRKMCLKAMFKL

>sp|Q8NGK1|051G1\_HUMAN Olfactory receptor 51G1 OS=Homo sapiens GN=OR51G1 PE=2 SV=1  
MTILLNSSLQRATFFLTGFQGLEGLHGWISIPFCFIYLTVILGNLTILHVICTDATLHGP  
MYYFLGMLAVTDLGLCLSTLPTVLGIFWFDTREIGIPACFTQLFFIHTLSSMESSVLLSM  
SIDRYVAVCNPLHDSVLTLPACIVKMGLSSVLSALLILPLPFLKRFQYCHSHVLAHAY  
CLHLEIMKLACSSIIVNHIYGLFVVACTVGVDSELLIFLSYALILRTVLSIASHQERLRAL  
NTCVSHICAVLLFYIPMIGLSLVHRFGEHLPRVVHLFMSYVYLLVPPLMNPIIYSIKTKQ  
IRQRIKKFQFIKSLRCFWKD

>sp|Q9H344|051I2\_HUMAN Olfactory receptor 51I2 OS=Homo sapiens GN=OR51I2 PE=3 SV=1  
MGLFNVTHPAFFLLTGIPGLESSHWSLGPLCVMYAVALGGNTVILQAVRVEPSLHEPMY  
YFLSMLSFSDDVAISMATLPTVLRFTCLNARNITFDACLIQMFLIHFFSMMESGILLAMSF  
DRYVAICDPLRYATVLTTEVIAAMGLGAAARSFITLFPPLFLIKRLPICRSNVLSHSYCL  
HPDMMRLACADISINSIYGLFVLVSTFGMDLFFIFLSYVLILRSVMATASREERLKALNT  
CVSHILAVLAFYVPMIGVSTVHRFGKHVPCYIHLMSNVYLFVPPVLNPLIYSAKTKAIR

RAIFRMFHIIKI

>sp|Q9H341|O51M1\_HUMAN Olfactory receptor 51M1 OS=Homo sapiens GN=OR51M1 PE=3 SV=4  
MSVQYSLSPQFMLSNTQFSPIFYLTSPFGLGKHWIFIPFFFMVMAISGNCFILII  
IKTNPRLHTPMYYLLSLLALDGLCVSTLPTTMGIFWFNSHSIYFGACQIQMFCIHSFS  
FMESSVLLMMSFDRDLVAICHPLRYSVIITGQQVVRAGLIVIFRGPVATIPIVLLLKAFPY  
CGSVVLSHSFCLHQEVIQLACTDITFNNLYGLMVVFTVMLDLVLIALSYGLILHTVAGL  
ASQEEQRRAFQTCTAPLCAVLVFFVPMGLSLVHRFGKHAPPAIHLLMANVYLFVPPMLN  
PIIYSIKTKEIHRAIIKFLGLKKASK

>sp|Q8NGJ9|O51T1\_HUMAN Olfactory receptor 51T1 OS=Homo sapiens GN=OR51T1 PE=3 SV=1  
MAIFNNTTSSSNFLLTAFPGLECAHVWISIPVCCLYTIALLGNSMIFLVIITKRRLHKP  
MYIFLSMLAAVDLCLTITTLPTVLGVLWFHAREISFKACFIQMFVHAFSLLESSVLVAM  
AFDRFVAICNPLNYATILTDRMVLVIGLVICIRPAVFLPLLVAINTVSFHGGHELHPF  
CYHPEVIKYTYSKPWISSFWGLFLQLYLNQTDVLFILFSYVLILRTVLGIVARKKQKAL  
STCVCHICAVTIFYVPLISLSLAHRLFHSTPRVLCSTLANIYLLPPVLNPIIYSLKTKT  
IRQAMFQLLQSKGSWGFNVRGLRGRWD

>sp|Q9UKL2|O52A1\_HUMAN Olfactory receptor 52A1 OS=Homo sapiens GN=OR52A1 PE=2 SV=2  
MSISNITVYMPSVLTLVGIPGLESVCWIGIPFCAIYLIAMIGNSLLLSIIKSERSLHEP  
LYIFLGMGLGATDIALASSIMPKMLGIFWFNVPEIYFDSCLLQMWFIHTLQGIESGILVAM  
ALDRYVAICYPLRHANIFTHQLVIQIGTMVVLRAAILVAPCLVLIKCRFQFYHTTVISHS  
YCEHMAIVKLAANVQVNKIYGLFVAFTVAGFDLTFITLSYIQIFITVFRLPQKEARFKA  
FNTCIAHICVFLQFYLLAFFSFFTHRFGSHISPYIHILFSSIYLLVPPFLNPLVYGAKTT  
QIRIHVVKMFCS

>sp|Q8NGF0|O52B6\_HUMAN Olfactory receptor 52B6 OS=Homo sapiens GN=OR52B6 PE=3 SV=3  
MAQVRALHKIMALFSANSIGAMNSDTRIAGCFLTGIPGLEQLHIWLSIPFCIMYITALE  
GNGILICVILSQAILHEPMYIFLSMLASADVLLSTTTMPKALANLWLGYSLISFDGCLTQ  
MFFIHFLFIHSAVLLAMAFDRYVAICSPRYVTILTSKVIKIVTAALSHSFIIMFPSIF  
LLEHLHYCQINIIAHTFCEHMGIAHLSCSDISINVWYGLAAALLSTGLDIMLITVSYIHI  
LQAVFRLLSQDARSKALSTCGSHICVILLFYVPALFSVFAYRFGGRSVPYVHILLASLY  
VVIPMLNPVIYGVRTKPILEGAKQMFSNLAKGSK

>sp|Q8NGH9|O52E4\_HUMAN Olfactory receptor 52E4 OS=Homo sapiens GN=OR52E4 PE=3 SV=1  
MPSINDTHFYPPFLLLGLPGLDLHIWISFPFCIVYLIAIVGNMTILFVIKTEHSLHQP  
MFYFLAMLSTIDGLSTSTIPKMLGIFWFNLQEISFGGCLLQMFIIHMFTGMETVLLVVM  
AYDRFVAICNPLQYTMILTNTKISILASVVVGRNLVLVTPFVFLILRLPFCGHNVPHY  
CEHRLAGLACAPIKINIYGLMVISYIIVDVILIASYVLILRAVFRLPQDVRKAFN  
TCGSHVCVMLCFYTPAFFSFMTHRFGQNIPHYIHILLANLYVVVPPALNPVIYGVRTKQI  
REQIVKIFVQKE

>sp|Q8NH55|O52E5\_HUMAN Olfactory receptor 52E5 OS=Homo sapiens GN=OR52E5 PE=3 SV=2  
MLHTNNTQFHPSTFLVVGVPGLDVLHVWIGFPFFAVYLTALLGNIIILFVIQTEQSLHQP  
MFYFLAMLSTIDGLSTATIPKMLGIFWFNLGEIAFGACITQMYTIHICTGLESVVLTVT  
GIDRYAICNPLRYSMILTNTKVIAILGIVIIIVRTLVFVTPFTFLILRLPFCGVRIIPHY  
CEHMLAKLACASINVYGLIAFSVGIDISVIGFSYVQILRAVFHLPDARPKALSTC  
GSHVCVMLAFYLPALFSFMTHRFGHNIPHYIHILLANLYVVFPALNSVIYGVKTKQIRE  
QVLRILNPKSFWHFDPKRIFHNNSVRQ

>sp|Q6IFG1|O52E8\_HUMAN Olfactory receptor 52E8 OS=Homo sapiens GN=OR52E8 PE=2 SV=3

MAGRMSTSNHTQFHPSSFLLLGPGLGVHVIWIGVPFFVYLVALLGNTALLFVIQTEQS  
LHEPMYYFLAMLDIDLGLSTATIPKMLGIFWFNTKEISFGGCLSHMFFIHFHTAMESIV  
LVAMAFDRYIAICKPLRYTMILTSKIISLIAGIAVLRSLYMVVPLVFLLLRPFCHRII  
PHTYCEHMGIAKLACASIKVNIRFGLGNISLLLLDVILIIISYVRILYAVFCLPSWEARL  
KALNTCGSHIGVILAFFTPAFFSFLTHRFGHNIPQYIHIILANLYVVVPPALNPVIYGV  
TKQIRERVLRIFLKTNH

>sp|Q8NGJ2|052H1\_HUMAN Olfactory receptor 52H1 OS=Homo sapiens GN=OR52H1 PE=2 SV=3  
MPSASAMIIFNLSYNPGPFILVGIPGLEQFHVWIGIPFCIIYIVAVVGNICILLYLIVVE  
HSLHEPMFFFFLSMLAMTDLILSTAGVPKALSIFWLGAIREITFPGLTQMFFLHYNFVLD  
AILMAMAFDHYVAICSPRYTTILTPKTIISAMGISFRSFCIILPDVFLLTCLPFCRTR  
IIPHTYCEHIGVAQLACADISINFWYGFCVPIMTVISDVILIAVSYAHILCAVFGLP  
SQDACQKALGTCGSHVCVILMFYTPAFFSILAHRFGHNVSRTFHMIFANLYIVIPPALNP  
MVYGVKTKQIRDKVILLFSKGTG

>sp|Q8NGK6|052I1\_HUMAN Olfactory receptor 52I1 OS=Homo sapiens GN=OR52I1 PE=3 SV=2  
MLGPAYNHTMETPASFLLVGIPGLQSSHLWLAIISLSAMYITALLGNTLIVTAIWMDS  
TRHEPMYCFLCVLAADVIMASSVVPKMVSIFCSGDSSISFSACFTQMFFVHLATAVET  
GLLLTMAFDRYVAICKPLHYKRILTPQVMLGMSMAVTIRAVTFMTPLSWMMNHLPF  
CGSNVVVHSYCKHIALARLACADVPSSLSYLIGSSLMVGSDVAFIAASYILILRAV  
FDLSSKTAQLKALSTCGSHVGMALYYLPGMASIYAAWLQDIVPLHTQVLLADLYV  
IIPATLNPIIYGMRTKQLLEGIWSYLMHFLFDHNSLGS

>sp|Q8NGK4|052K1\_HUMAN Olfactory receptor 52K1 OS=Homo sapiens GN=OR52K1 PE=2 SV=2  
MLPSNITSTHPAVFLLVGIPGLEHLHAWISIPFCFAYTLALLGNCTLLFIQADAAL  
HEPMYLFLAMLATIDLVSSTTLPKMLAIFWFRDQEINFFACLVMFFLHSFSIMESAV  
LLAMAFDRYVAICKPLHYTTVLTGSLITKIGMAAVARAVTLMPLPFLRRFHYCRGP  
VIAHCYCEHMAVVRLACGDTSFNNIYGIAMFIVVLDLLFVILSYVFIQAVLQLASQ  
EARYKAFGTCVSHIGAILSTYTPVVISSVMHRVARHAAPRVHILLAIIFYLLFPPM  
VNPPIIYGVKTKQIREYVLSLFQRKNM

>sp|Q8NGI0|052N2\_HUMAN Olfactory receptor 52N2 OS=Homo sapiens GN=OR52N2 PE=3 SV=1  
MSGDNSSSLTPGFFILNGVPGLEATHIWISLPFCFMYIIAVVGNCGLICLISHEEAL  
HRPMYYFLALLSFTDVTLCCTTMVPNMLCIFWNLKEIDFNACLAQMFFVHMLTGM  
ESGVMLMALDRYVAICYPLRYATILTNPIAKAGLATFLRNVMLIIPFTLLTKRLPY  
CRGNFIPTYCDHMSVAKVSCGNFKVNAIYGLMVALLIGVFDICCSVSYTMILQAVMS  
LSSADARHKAFSTCTSHMCSIVITYVAAFFTFFTHRFVGHNPNIHIIIVANLYLLP  
PTMNPPIVYGVKTKQIQEGVIKFLGDKVSFTYDK

>sp|Q8NH56|052N5\_HUMAN Olfactory receptor 52N5 OS=Homo sapiens GN=OR52N5 PE=2 SV=2  
MPLFNSLCWFPTIHVTPPSFILNGIPGLERVHVWISLPLCTMYIIIFLVGNLGLVY  
LIYYEESLHHPMYFFFGHALSLIDLLTCTTLPNALCIFWFSLEINFNACLAQMFFV  
HGFTGVESGVLMMLALDRYVAICYPLRYATILTNPIIAKAELATFLRGVLLMIPF  
PFLVKRLPFCQSNIIISHTYCDHMSVVKLSCASIKVNVYGLMVALLIGVFDICCS  
LSYTLILKAAISLSSSDARQKAFSTCTAHISAIITYVPAFFTFFAHRFGGHTIPPS  
LHIIIVANLYLLLPPTLNPIVYGVKTKQIRKSVIKFFQGDKGAG

>sp|Q8NH57|052P1\_HUMAN Putative olfactory receptor 52P1 OS=Homo sapiens GN=OR52P1 PE=5 SV=2  
MESPNHTDVPDPSVFLLGPGLQFHLWLSLPVCGLTATIVGNITILVVVATEPVLHKP

VYLFLCMLSTIDLAASVSTVPKLLAIFWCGAGHISASACLAQMFFIHAFCMMESTVLLAM  
AFDRYVAICHPLRYATILTDTIIAHIGVAAVVRGSLMLPCPFLIGRLNFCQSHVILHTY  
CEHMAVVKLACGDTRPNRVYGLTAALLVIGVDLFCIGLSYALSAQAVLRLSSHEARSKAL  
GTCGSHVCVILISYTPALFSFFTHRGHHVPVHIHILLANVYLLPPALNPVYGVKTKQ  
IRKRVVRVFQSGQGMGIKASE

>sp|Q8NGH5|O56A1\_HUMAN Olfactory receptor 56A1 OS=Homo sapiens GN=OR56A1 PE=2 SV=3  
MIQPMASPSNSSTVPVSEFLLCFPNFQSWQHWLSLPLSLLFLLAMGANTTLLITIQLEA  
SLHQPLYLLSLLSLLDIVLCLTVIPKVLAIWFYDLRSISFPACFLQMFIMNSFLPMESC  
TFMVMAYDRYVAICHPLRPSIITNQFVAKASVFIVVRNALLTAPIPILTSLLHYCGENV  
IENCICANLSVSRLCDNFTLNRIYQFVAGWTLGSDLFLIFLSYTFILRAVLRFKAEGA  
AVKALSTCGSHFILILFFSTILLVVLTNVARKKVPMDILILLNVLHHLIPPALNPVYGV  
VRTKEIKQGIQKLLQGR

>sp|Q8NGH8|O56A4\_HUMAN Olfactory receptor 56A4 OS=Homo sapiens GN=OR56A4 PE=2 SV=2  
MASPSNDSTAPVSEFLLCFPNFQSWQHWLSLPLSLLFLLAMGANTTLLITIQLEASLHQ  
PLYLLSLLSLLDIVLCLTVIPKVLAIWFYDLRSISFPACFLQMFIMNSFLTMESCTFMV  
MAYDRYVAICHPLRPSIITDQFVARAVFVIARNAFVSLPVPMLSARLRYCAGNIKNC  
ICSNLSVSKLSCDDITFNQLYQFVAGWTLGSDLILIVISYSFILKVVLRIKAEGAVAKA  
LSTCGSHFILILFFSTVLLVLVITNLARKRIPDPVILLNILHHLIPPALNPVYGVRTK  
EIKQGIQNLLKRL

>sp|Q8NGI1|O56B2\_HUMAN Putative olfactory receptor 56B2 OS=Homo sapiens GN=OR56B2P PE=5  
SV=1  
MLVVLQELRDSNSSKFQVSEFILMGFPGIHSWQHWLSLPLALLYLLALSANILILIIINK  
EAALHQPMYYFLGILAMADIGLATTIMPKILAILWFNAKTISLLECFAQMYAIHCFVAME  
SSTFVCMAIDRYVAICRPLRPSIITESFVFKANGFMALRNSLCLISVPLLAQRHYCSQ  
NQIEHCLCSNLGVTSLSCDDRRINSINQVLLAWTLMGSDGLIILSYALILYSVLKLN  
EAASKALSTCTSHLILILFFYTVIIVISITRSTGMRVPLIPVLLNVLHNVIPPALNPMVY  
ALKNKELRQGLYKVLRLGVKGT

>sp|POC617|O5AL1\_HUMAN Olfactory receptor 5AL1 OS=Homo sapiens GN=OR5AL1 PE=3 SV=1  
MCALKGLEENFYTYSVAKGNHSTVYEFILLGLTDNAELQVTLFGIFLVVYLASFMGNF  
LIMLIQISPQLHTPMYFFLSHLAFVDFSFTSSVAPNTLVNFLCEVKSITFYACAIQVCCF  
ITFVVCELYLLSIMAYDRYVAICNPPLYVILIPRCKIKLIASITYVYGFTVGLVQTVATSY  
LSFCDENVINHFDVPLVALACSDTHVKELMLLIIAGFNTLCSLVIVLISYGFIFFAI  
LRIHSAEGRQKAFSTSASHLTSITIFYGTIIFMYPQPKSSHSLNMDKVASVFNVVVIPTL  
NPLIYSLRNQEVKNALKRIIEKLCLAVK

>sp|Q8N127|O5AS1\_HUMAN Olfactory receptor 5AS1 OS=Homo sapiens GN=OR5AS1 PE=3 SV=1  
MLESNYTMPTEFLVFGFTDYLPLRVTLFLVFLVYTLTMVGNILLIILVNINSSLQIPMY  
YFLSNLSFLDISCSTAITPKMLANFLASRKSI SPYGCALQMFFFAFADAECILAA  
MAYDRYAAICNPPLYTTLMSRRVCVCFIVLAYFSGTSLVHVCLTFRLSFCGSNIVNHFFCD  
IPPLLALSCTDTQINQLLFFALCSFIQTSTFVVFISYFCILITVLSIKSSGGRSKTFST  
CASHLIAVTLFYGALLFMYLQPTTSYSLDQKVVAVFYTVVFPMPNPIIYSFRNKDVKNA  
LKKLLERIGYSNEWYLNRLRIVNI

>sp|A6NDH6|O5H15\_HUMAN Olfactory receptor 5H15 OS=Homo sapiens GN=OR5H15 PE=3 SV=1  
MEEENATLLTEFVLTFGLYQPPQWKIPLFLAFLVIYELITIMGNLGLIAVIWKDPHLHIPMY  
LLGNLAFVDAWISSVTPKMLNFLAKSKMISLSECKIQFFSIAIGVTTECFLLATMAY

DRYVAICKPLLYPAIMTNGLCIRLLILSYIAGILHALIHEGFLFRLTFCNSNIVHHIYCD  
TIPLSKISCTDSSINFLMVFI FSGSIQVFSIVTILISYTFVLFTVLEKKSDDKGVKAFST  
CGAHLFSVCLYYGPLLLMYVGPASPQADGQNMVEPLFYTVIIPLLNPIIYSLRNKQVIVS  
FIKMLKRNKVS

>sp|A6NDL8|O6C68\_HUMAN Olfactory receptor 6C68 OS=Homo sapiens GN=OR6C68 PE=3 SV=2

MRKHTAITTFILLGLTEDPQLQVLLFMFLFITYMLSVTGKLTIIALTMLDPHLKTPMYFF  
LQNSFLEISFTATCVPRFLYSISTGNKIITYNACVIQLFFADLFGVTEFFLLATMSYDR  
YVAICKPLHYMAIMSNNKCKTMVICCWMALMIILPPLSLGFHLEFCDSNVINHFGCDAL  
PILKIPCSDTSLIEQMVASAVLTFIITLVCVVLSTYTIIRITLKFPSVQQKKKAFSTCS  
SHITVVSITYGSCIFIYIKPSAKEEVNINKGVSVLISSISPMLNSFIYTLRNEQVKQAFH  
DSLKKIAFRLKK

>sp|A6NCV1|O6C74\_HUMAN Olfactory receptor 6C74 OS=Homo sapiens GN=OR6C74 PE=3 SV=1

MRNHTTVANFILLGLTDDPQLQVLIIFLLFFTYMLSITGNLTIIITLTLDDLHLKTPMYFF  
LRNFSFLEVSFTTVYIPKFLVSMATGDKTISYNDCAAQLFFTILLGATEFFLLAAMS YER  
YVAICKPLHYTTIMSSRVCSLLVFASWMAGFLIIFPPLMGLQLDFCAANTVDHFFCDVS  
PILQLSCTDTDIIELMMLLSAILTLLVTLVLVILSYTNIIRITLKPSSQQRKKAFSTCS  
SHMVVVSISYGSCIFMYVKPSAKERVSLNKGIALLSVAPMLNPFYTLRNLKQVKDVFK  
HTVKKIELFSMK

>sp|Q6IFN5|O7E24\_HUMAN Olfactory receptor 7E24 OS=Homo sapiens GN=OR7E24 PE=2 SV=1

MSYFPIILFFFLLKRCPSYTEPQNLTGVSEFLLLGLSEDPQLQVLAGLFLSMYLVTVLGN  
LLIILAVSSDHLHTPMYFFLSNLSLADIGFTSTTVPKMIVDMQTHSRVISYEGCLTQMS  
FFVLFACMDDMLLSVMAYDRFVAICHPLHYRIIMNPRLCGFLILLSFFISLLDSQLHNL I  
MLQLTCFKDVIDISNFFCDPSQLHLRCSDTFINEMVIYFMGAIFGCLPISGILFSYKIV  
SPILRVPTSDGKYKAFSTCGSHLAVVCLFYGTGLVGYLSSAVLPSPRKSMVASVMYTVVT  
PMLNPFYIYSLRNKDIQSALCRLHGRIIKSHHLHPFCYMG

>sp|Q9Y6K5|OAS3\_HUMAN 2'-5'-oligoadenylate synthase 3 OS=Homo sapiens GN=OAS3 PE=1 SV=3

MDLYSTPAAALDRFVARRLQPRKEFVEKARRALGALAAALRERGGRLGAAAPRVLKT VKG  
GSSGRGTALKGGCDELVIIFLDCFKSYVDQRRARAEILSEMRASLESWWQNPVPGRLTF  
PEQSVPGALQFRLTSVDLEDWMDVSLVPAFNVLGQAGSGVKPKPVYSTLLNSGCQGGEH  
AACFTELRRNFVNIRPAKLKNLILLVKHWYHQVCLQGLWKETLPPVYALELLTIFAWEQG  
CKKDAFSLAEGRLTVLGLIQHQHLCVFWTVNYGFEDPAVGQFLQRQLKRPRPVILDPAD  
PTWDLNGAAWHWDLAQEAASCYDHPCFLRGMGDPVQSWKGPGLPRAGCSGLGHPQLD  
PNQKTPENSKSLNAVYPRAGSKPPSCAPGPTGAASIVPSVPGMALDLSQIPTKELDRFI  
QDHLKPSPQFQEQQKAIDIIILRCLHENCVHKASRVSKGGSFGRGTDLRDGCDELIIIFL  
NCFTDYKDQGPRRAEILDEMRAQLESWWQDVPSLSLQFPEQNVPEALQFQLVSTALKSW  
TDVSLLPADFAGQLSSGKTPNPQVYSRLLTSGCQEGEHKACFAELRRNFMNIRPVKLKN  
LILLVKHWYRQVAAQNKKGPPASLPAYALELLTIFAWEQGCRQDCFNMAQGFRTVLG  
LVQQHQQLCVYWTVNYSTEDPAMRMHLLGQLRKPRPLVLDPADPTWNVGHGSWELLAQEA  
AALGMQACFLSRDGTSVQPDVMPALLYQTPAGDLDFISEFLQPNRQFLAQVNKAVDTI  
CSFLKENCFRNSPIKVIKVVKGSSAKGTALRGRSDADLVVFLSCFSQFTEQGNKRAEII  
SEIRAQLEACQQRQFEVKFEVSKWENPRVLSFSLTSQTMLDQSVDFDVLPAFDALGQLV  
SGSRPSSQVYVDLIHSYSNAGEYSTCFTELQRDFIISRPTKLKSLIRLVKHWYQQCTKIS  
KGRGSLPPQHGLELLTVYAWEQGKDSQFNMAEGFRTVLELVTQYRQLCIYWTINYNAKD  
KTVGDFLKQQLQKPRPIILDPADPTGNLGHNARWDLAKEAACTSAALCCMGRNGIPIQP

WPVKAAY

>sp|Q15646|OASL\_HUMAN 2'-5'-oligoadenylate synthase-like protein OS=Homo sapiens GN=OASL  
PE=1 SV=2

MALMQELYSTPASRLDSFVAQWLQPHREWKEEVLDVAVRTVEEFLRQEHFQGKRGLDQDVR  
VLKVVKVGSGNGTVLRSTREVELVAFSLCFHSFQEAAKHHKDVLRLLIWKTMWQSQDLLD  
LGLEDLRMEQRVPDALVFTIQTRGTAEPITVTIVPAYRALGPSLPNSQPPEVYVSLIKA  
CGGPGNFCPSFSELQRNFVKHRPTKLKSLRLVKHWYQQYVKARSPRANLPPLYALELLT  
IYAWEMGTEEDENFMLDEGFTTVMDLLLEYEVICIWTKYYTLHNAIIEDCVRKQLKKER  
PIILDPADPTLNVAEGYRWDIVAQRASQCLKQDCCYDNRENPISSWNVKRARDIHLTVEQ  
RGYPDFNLIVNPYPIRKVKEKIRRTRGYSGLQRLSFQVPGSERQLLSSRCSLAKYGIFS  
HTHIYLLLETIPSEIQVFVNPDGGSYAYAINPNSFILGLKQQIEDQQGLPKKQQQLEFQG  
QVLQDWLGLGIYGIQDSDTLILSKKKGEALFPAS

>sp|Q9NX40|OCAD1\_HUMAN OCIA domain-containing protein 1 OS=Homo sapiens GN=OCIAD1 PE=1  
SV=1

MNGRADFREPNAEVRPIPHIGPDYIPTEEERRVFAECNDESFWRFSVPLAATSMITQG  
LISKGILSSHPKYGSIPKLILACIMGYFAGKLSYVKTCQEKFKKLENSPLGEALRSGQAR  
RSSPPGHYYQKSKYDSSVSGQSSFTSPAADNIEMLPHYEPIPFSSSMNESAPTGITDHI  
VQGPDPNLEESPKRKNITYEELRNKNRESYEVSLTQKTDPSPVPMHERVPKKEVKVKNKYG  
DTWDE

>sp|Q01968|OCRL\_HUMAN Inositol polyphosphate 5-phosphatase OCRL-1 OS=Homo sapiens GN=OCRL  
PE=1 SV=3

MEPPLPVAQPLATVEGMEKGPLREPCALTLAQRNGQYELIIQLHEKEQHVQDIIPINS  
HFRCVQEAETLLIDIASNSGCKIRVQGDWIRERRFEIPDEEHCLKFLSAVLAAQKAQSQ  
LLVPEQKQDSSSWYQKLDTKDKPSVFSGLLGFEDNFSSMNLDDKINSQNQPTGIHREPPPP  
PFSVNKMLPREKEASNEQPKVTNTMRKLFVPNTQSGQREGLIKHLAKREKEYVNIQTF  
RFFVGTWNVNGQSPDSGLEPWLNCDPNPPDIYCIGFQELDLSTEAFFYFESVKEQEWMA  
VERGLHSKAKYKKVQLVRLVGMMLLIIFARKDQCRYIRDIATETVGTGIMGMGNKGGVAV  
RFVFNHTTFCIVNSHLAAHVEDFERRNQDYKDICARMSFVVPNTLPQLNIMKHEVVIWL  
GDLNRYLCMPDANEVKSLLINKDLQRLKFDQLNIQRTQKKAFFVDFNEGEIKFIPTYKYD  
SKTDRWDSSGKCRVPAWCDRIILWRGTNVNQLNYSRSHMELKTSCHKPVSALFHIGVKVDE  
RRYRKVFEDSVRIMDRMENDFLPSLELSRREFVFNKFRQLQKEKFQISNNGQVPCHFS  
FIPKLNDQYCKPWLRAEPFEGYLEPNETVDISLDVYVSKDSVTILNSGEDKIEDILVLH  
LDRGKDYFLTISGNYPSCFGTSLEALCRMKRPIREVPVTKLIDLEEDSFLEKEKSLLQM  
VPLDEGASERPLQVPKEIWLVDHLFKYACHQEDLFQTPGMQEELQQIIDCLDTSIPETI  
PGSNHSAEALLIFLEALPEPVICYELYQRCLDSAYDPRICRQVISQLPRCHRNVFRYLM  
AFLRELLKFSEYNSVNANMIATLFTSLLRPPPNLMARQTPSDRQRAIQFLGFLGSEE  
D

>sp|Q2M2E3|ODFP4\_HUMAN Outer dense fiber protein 4 OS=Homo sapiens GN=ODF4 PE=1 SV=2

MDAEGSGNEFPRSEGERDQHQRPGKERKSGEAGWGTGELGQDGRLLSSTLSLSSNRSLGQ  
RQNSPLPFQWRITHSFRWMAQVLASELSLVAFILLLVAFSCKKWLDSRSLFYQRWPVDV  
SNRIHTSAHVMSMGLLHFYKSRSCSDLENGKVTIFSTLMLFPINIWIFELERNVSIPIG  
WSYFIGWLVLILYFTCAILCYFNHKSFWSLILSHPSGAVSCSSSFGSVEESPRAQTITDT  
PITQEGVLDPEQKDHV

>sp|Q68BL7|OLM2A\_HUMAN Olfactomedin-like protein 2A OS=Homo sapiens GN=OLFML2A PE=2 SV=1

MAAAALPPRPLLLLPLVLLLSGRPTRADSKVFGDLQVRMTSEGSDCRCKCIMRPLSKDA  
CSRVRSGRARVEDFYTVETVSSGTDRCSCCTAPPSSLNPCENEWKMEKLKKQAPELLKLQ  
SMVDLLEGTLYSMDLMKVHAYVHKVASQMNTEESIKANLSRENEVVKDSVRHLSEQLRH  
YENHSAIMLGIKKELSRGLQLLQKDAAAAPATPATGTGSKAQDTARGKGKDISKYGSVQ  
KSFADRGLPKPPKEKLLQVEKLKESGKGSFLQPTAKPRALAAQQAVIRGFTYYKAGKQE  
VTEAVADNTLQGTSWLEQLPPKVEGRSNSAEPNSAEQDEAEPRSSSERVDLASGTPTSIPA  
TTTTATTTPTPTTSLPTEPPSGPEVSSQGREASCEGTLRAVDPPVRHHSYGRHEGAWMK  
DPAARDDRIYVTNYYYGNSLVEFRNLENFKQGRWSNMYKLPYNWIGTGHVYVYQGAFYYNR  
AFTKNI IKYDLRQRFVASWALLPDVYEDTTPWKWRGHSIDIDFAVDESGLWVIYPAVDDR  
DEAQPEVIVLSRLDPGDLSVHRETTWKTRLRRNSYGNCFVCGILYAVDTYNQEGQVAY  
AFDTHGTGDARPLPFLNEHAYTTQIDYNPKERVLYAWDNGHQLTYTLHFVV

>sp|Q15738|NSDHL\_HUMAN Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating  
OS=Homo sapiens GN=NSDHL PE=1 SV=2

MEPAVSEPMDQVARTHLTETDPKVNADIEKVNQNAKRCTVIGSGFLGQHMVEQLLAR  
GYAVNVFDIQGFDPNPQVRFFLDLCSRQDLYPALKGVNTVFHCASPPSSNNKELFYRV  
NYIGTKNVIETCKEAGVQKLILTSSASVIFEGVDIKNGTEDLPYAMKPIDYYTETKILQE  
RAVLGANDPEKNFLTATIRPHGIFGPRDPQLVPIIEAARNGKMKFVIGNGKNLVDFTFV  
ENVVHGHLAAEQLSRDSTLGGKAFHITNDEPIPFWTFLSRILTGLNIEAPKYHIPYWVA  
YYLALLLSLLVMVISPVILQPTFTPMRVALAGTFHYSCERAKKAMGYQPLVTMDAME  
RTVQSFRHLRRVK

>sp|Q8WV22|NSE1\_HUMAN Non-structural maintenance of chromosomes element 1 homolog OS=Homo  
sapiens GN=NSMCE1 PE=1 SV=5

MQGSTRRMGMVMTDVHRRFLQLLMTHGVLLEWDVKRLQTHCYKVHNRNATVDKLEDFINNI  
NSVLESLEYIEIKRGVTEDDGRPIYALVNLATTSISKMATDFAENELDLFRKALELIIDSE  
TGFASSTNINLNDVLQKGGKMRKKEAEQVLQKFVQNKWLEKEGEFTLHGRAILEMEQYI  
RETYPDVAVKICNICHSLLIQGGSCETCGIRMHLPCVAKYFQSNAEPRCPHCNDYWPHEIP  
KVFDPEKERESGVLKSNKSLRSRQH

>sp|Q9NPB1|NT5M\_HUMAN 5' (3')-deoxyribonucleotidase, mitochondrial OS=Homo sapiens GN=NT5M  
PE=1 SV=1

MIRLGGWCARRLCSAAVPAGRRGAAGGLGLAGGRALRVLDMDGVLADFEGGFLRKFRAR  
FPDQPFIALEDRRGFVWSEQYGRLRPGLSEKAISIWESKNFFFELEPLPGAVEAVKEMAS  
LQNTDVFICTSPIKMFKYCPYEKYAWVEKYFGPDFLEQIVLTRDKTVVSADLLIDDRPDI  
TGAEPTPSWEHVLFTACHNQLQLQPPRRRLHSWADDWKAILDSKRPC

>sp|Q6ZSK4|NTAS1\_HUMAN Putative uncharacterized protein NTM-AS1 OS=Homo sapiens GN=NTM-  
AS1 PE=5 SV=1

MKGQEGIRGEGCTDPEIKASPMWAARFRGMRSRFSPLFSQATEMGPVRSAGWCLSGGGR  
KVSSLQGDFFPGGFWALSNDLSALSLPPLSLPHPLRPPGLGVNEFTQGLHPPLHPAASV  
FQTCFYRKPHYCSTLRPTTT

>sp|P78549|NTH\_HUMAN Endonuclease III-like protein 1 OS=Homo sapiens GN=NTHL1 PE=1 SV=2

MCSPQESGMTALSARMLTRSRSLGPGAGPRGCREEPGLRRREAAAEARKSHSPVKRPRK  
AQRLRVAYEGSDSEKGEAEPLKVPVWEPQDWQQQLVNIRAMRNKKDAPVDHLGTEHCYD  
SSAPPKVRRYQVLLSMLSSQTKDQVTAGAMQRLRARGLTVDSTILQTDDATLGKLIYPVG  
FWRSKVYIKQTSAILQQHYGGDIPASVAELVALPGVGPKMAHLAMAVAWGTVSGIAVDT  
HVHRIANRLRWTKKATKSPEETRAALEEWLPRELWHEINGLLVGFGQQTCLPVHPRCHAC

LNQALCPAAQGL

>sp|P03891|NU2M\_HUMAN NADH-ubiquinone oxidoreductase chain 2 OS=Homo sapiens GN=MT-ND2  
PE=1 SV=2

MNPLAQPIYSTIFAGTLITALSSHWFFTWVGLEMNMLAFIPVLTKMNPSTEAAIKYF  
LTQATASMILLMAILFNNMLSGQWTMTNTTNQYSSLMIMMAMAMKLGMAPFHFVPEVTQ  
GTPLTSGLLLLTWQKLAPISIMYQISPSLNVSLLLTSLILSIMAGSWGGLNQTQLRKILA  
YSSITHMGWMMAVLPYNPNMTILNLTIIYIILTTAFLLLNLSSTTTLLSRTWNKLTWL  
TPLIPSTLLSLGGLPPLTGFLPKWAIIEEFTKNNSLIPTIMATITLLNLYFYLRLIYST  
SITLLPMSNNVKKMQFEHTKPTPFLPTLIALTTLLLPISPFMLMIL

>sp|P03923|NU6M\_HUMAN NADH-ubiquinone oxidoreductase chain 6 OS=Homo sapiens GN=MT-ND6  
PE=1 SV=2

MMYALFLLSVGLVMGFVGFSSKPSPIYGGLVLIVSGVVGCVIILNFGGGYMGLMVFLIYL  
GGMMVVFGYTTAMAEIYEPAWGSQGEVLVSVLVGLAMEVGLVLVWKEYDGVVVVVNFNS  
VGSWMIYEGEGSLIREDPAGALYDYGRLVVTGTWTLFVGVIYVIEIARGN

>sp|O60285|NUAK1\_HUMAN NUA family SNF1-like kinase 1 OS=Homo sapiens GN=NUAK1 PE=1 SV=1

MEGAAAPVAGDRPDLGLGAPGSPREAVAGATAALEPRKPHGVKRHHHKHNLKHRYELQET  
LGKGTYGKVKRATERFSGRVVAIKSIRKDKIKDEQDMVHIRREIEIMSSLNHPHIIISIYE  
VFENKDKIVIIIMEYASKGELYDYISERRRLSERETRHFFRQIVSAVHYCHKNGVVHRDLK  
LENILLDDNCKNIADFGLSNLYQKDKFLQTCGSPLYASPEIVNGRPYRGPEVDSWALG  
VLLYTLVYGTMPFDGFDHKNLIRQISSGEYREPTQPSDARGLIRWMLMVNPDRRATIEDI  
ANHWWVNWGYKSSVCDALHDSPELLARIIDWHHRSTGLQADTEAKMGLAKPTTSEV  
MLERQSLKSKKENDFAQSGQDAVPESPSKLSSKRPKGILKKRSNSEHRSHSTGFIEGV  
VGPALPSTFKMEQDLCRTGVLLPSSPEAEVPGKLSPKQSATMPKKGILKKTQQRESGYYS  
SPERSESELDSNDVMGSSIPSPSPDPARVTSHSLSCRRKGILKHSSKYSAGTMDPAL  
VSPEMPTLESLEPGVPAEGLSRYSRPSSVISDDSVLSSDSFDLLDLQENRPARQRIRS  
CVSAENFLQIQDFEGLQNRPRPQYLKRYRNRLADSSFSLLTMDMDVTQVYKQALEICSKL  
N

>sp|Q9Y5A7|NUB1\_HUMAN NEDD8 ultimate buster 1 OS=Homo sapiens GN=NUB1 PE=1 SV=2

MAQKKYLQAKLTQFLREDRIQLWKPPYTDENKKVGLALKDLAKQYSDRLECCENEVEKVI  
EEIRCKAIERGTGNDNYRTTGIIATIEVFLPPRLKKDRKNLLETRLHITGRELSKIAETF  
GLQENYIKIVINKKQLQLGKTLEEQGVAHNVKAMVLELKQSEEDARKNFQLEEEEQNEAK  
LKEKQIQRTKRGLEILAKRAAETVVDPEMTPYLDIANQTGRSIRIPPSEKALMLAMGYH  
EKGRAFLKRKEYGIALPCLLDADKYFCECCRELLDTVDNYAVLQLDIVWCYFRLEQLECL  
DDAEKKLNLAQKCFKNCYGENHQRLVHIKGNCGKEKVLFLRLYLLQGIRNYHSGNDVEAY  
EYLNKARQLFKELYIDPSKVDNLLQLGFTAQEARLGLRACDGNVDHAATHITNRREELAQ  
IRKEEKEKKRRRLENIRFLKGMGYSTHAAQVLHAASGNLDEALKILLSNPQMWWLNSN  
PETDNRQESPSQENIDRLVYMGFDALVAEALRVFRGNVQLAAQTLAHNGGSLPELPLS  
PEDSLSPATSPSDSAGTSSASTDEDMETEAVNEILEDIPEHEEDYLDSTLEDEEIIIAE  
YLSYVENRKSATKKN

>sp|Q8TB37|NUBPL\_HUMAN Iron-sulfur protein NUBPL OS=Homo sapiens GN=NUBPL PE=1 SV=3

MGIWQRLLLFGGVSLRAGGGATAPLGGSRAMVCGRQLSGAGSETLKQRRQTIMSRGLPKQ  
KPIEGVKQVIVVASGKGVGKSTTAVNLALALAANDSSKAIGLLDQVYGPSVPKMMNLK  
GNPELSQSNLMRPLLNYGIACMSMGFLVEESEPVVWRGLMVMSAIEKLLRQVDWGQLDYL  
VVDMPPGTGDVQLSVSQNIPITGAVIVSTPQDIALMDAHKAEMFRRVHVPVLGLVQNMS



VFQCPKCKHKTHIFGADGARKLAQTLGLEVLGDIPLHLNIREASDTGQPIVFSQPESDEA  
KAYLRIAVEVVRRLPSPSE

>sp|P19338|NUCL\_HUMAN Nucleolin OS=Homo sapiens GN=NCL PE=1 SV=3

MVKLAKAGKNQGDPPKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVIPQKKGKAAATS  
AKKVVVSPTKKVAVATPAKKA AVTPGKKAATPAKKT VTPAKAVTTPGKKGATPGKALVA  
TPGKKGAAIPAKGAKNGKNAKKEDSDEEEDDDSEDEEDEDDEDEDEIEPAAMKAAAA  
APASEDEDEDDEDDEDDEDDDEEDDSEEEAMETTPAKGKKA AKVVPVAKNVAEDEDEEE  
DDEDEDDEDEDDEDDEDDEDEEEEEEEEEEPVKEAPGKRKKEMAKQKAAPEAKKQKVEG  
TEPTTAFNLFVGNLFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFESAEDL  
EKALELTGLKVFGNEIKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAAEIR  
LVSKDGKSKGIAYIEFKTEADA EKTFEKQGT EIDGRSISLYYTGEKGQNQDYRGGKNST  
WSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGYAFIEFASFEDA KEAL  
NSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTEETLKESFDGSVRARI  
VTDRETGSSKGFVDFNSEEDAKAAKEAMEDGEIDGNKVTLDWAKPKGEGGFGGRGGGR  
GGFGRGGGRGGRGFGGRGRGGFGGRGGFGGRGGGGDHKPQGKKTKE

>sp|Q8NFP7|NUD10\_HUMAN Diphosphoinositol polyphosphate phosphohydrolase 3-alpha OS=Homo sapiens GN=NUDT10 PE=1 SV=1

MKCKPNQTRTYDPEGFKKRAACLFRSEREDEVLVSSSRYPDRWIVPGGGMEPEEEPPG  
AAVREVYEEAGVKGLGRLLGVFEQNQDPKHRTYVYVLTVTELLEDWEDSVSIGRKREWF  
KVEDAIKVLQCHKPVHAEYLEKLKLGGSPTNGNSMAPSSPDSDP

>sp|Q9BRQ3|NUD22\_HUMAN Nucleoside diphosphate-linked moiety X motif 22 OS=Homo sapiens GN=NUDT22 PE=1 SV=3

MDPEVTLLLCPPGGGLPQEIQAE LSPAHDRRPLPGGDEAITAIWETRLKAQPWLFDA PK  
FRLHSATLAPIGSRGPQLLLRLGLTSYRDFLGTNWSSSAAWLRQQGATDWGDTQAYLADP  
LGVGAA LATADDFLVFLRRSRQVAEAPGLVDVPGGHPEPQALCPGGSPQHQLAGQLVVH  
ELFSSVLQEICDEVNPLLLTSLQPLLLGIARNETSAGRASAEFYVQCSLTSEQVRKH YLS  
GGPEAH ESTGIFVETQNVQRLL ETEMWAE LCPSAKGAIILYNRVQGSPTGAALGSPALL  
PPL

>sp|Q9UHK0|NUFIP1\_HUMAN Nuclear fragile X mental retardation-interacting protein 1 OS=Homo sapiens GN=NUFIP1 PE=1 SV=2

MAEPTSDFETPIGWHASPELTPLGLSDTAPPRDSWMFWAMLPPPPPLTSSLPAAGSK  
PSSESQPPMEAQSLPGAPPPFDAQILPGAQPPFDAQSPLDSQPQPSGQPWNFHASTSWY W  
RQSSDRFPRHQKSFNPAVKNSYYPRKYDAKFTDFSLPPSRKQKKKKRKEPVFHFFCDTCD  
RGFKNQEKYDKHMS EHTKCEP LDCSFTAHEKIVQFHWNRNMHAPGMKKIKLDTPEE IARWR  
EERRKNYPTLANIERKKKLKEKEKRGAVLTTTQYGKMGMSRHSQMAKIRSPGKNHKWK  
NDNSRQRAVTGSGSHLCDLKLEGPPEANADPLGVLINSDSES DKEEKPQHSVIPKEVTPA  
LCSLMSSYGSLSGSESEPEETPIKTEADVLAENQVLDSSAPKSPSQDVKATVRNFSEAKS  
ENRKKSF EKTNPKRKKDYHNYQTLFEP RTHHPYLLEMLLAPDIRHERNVILQCVRYIIKK  
DFFGLDTNSAKSKDV

>sp|Q8NFH3|NUP43\_HUMAN Nucleoporin Nup43 OS=Homo sapiens GN=NUP43 PE=1 SV=1

MEEIYAKFVSQKISKTRWRPLPPGSLQTAET FATGSDNEENYISLSIGDFGNLSDGG  
FEGDHQLLCDIRHHGDVMDLQFFDQERIVAASSTGCVTVFLHHPNNTLSVNQQWTTAHY  
HTGPGSPSYSSAPCTGVVCNNPEIVTVGEDGRINLFRADHKEAVRTIDNADSS TLHAVTF  
LRTPEILTVNSIGQLKIWDFRQQGNEPSQILSLTGDRVPLHCVDRHPNQQHVVATGGQDG

MLSIWDVRQGTMPVSLKKAHEAEMWEVHFHPSNPEHLFTCEDGSLWHWDASTDVPEKSS  
LFHQGGRSSTFLSHSISNQANVHQSVISSWLSTDPADRIEITSLLPSRSLSVNTLDVLG  
PCLVCGTDAEAIYVTRHLFS

>sp|Q99567|NUP88\_HUMAN Nuclear pore complex protein Nup88 OS=Homo sapiens GN=NUP88 PE=1  
SV=2

MAAEGPVGDELWQTLPNHVFLRLREGLKNQSPTEAEKPASSSLPSSPPPQLLTRNV  
VFGLGGELFLWDGEDSSFLVRLRGPSGGGEEPALSQYQRLLCINPPLFEIYQVLLSPTQ  
HHVALIGIKGLMVLELPKRWGKNSEFEGGKSTVNCSTTPVAERFFTSSTSLTKHAAWYP  
SEILDPHVLLTSDNVIIRIYSLREPQTPTNVIILSEAEESLVLNKGGRAYTASLGETAVA  
FDFGPLAAVPKTLFGQNGKDEVVAYPLYILYENGETFLTYISLLHSPGNIGKLLGPLPMH  
PAAEDNYGDACAVLCLPCVPNILVIATESGMLYHCVVLEGEEDDHTSEKSWDSRIDLI  
PSLYVFECVELELALKLASGEDDPFSDSDFSCPVKLHRDPKCPSTRYHCTHEAGVHSVGLTW  
IHKLHKFLGSDEEDKDSLQELSTEQKCFVEHILCTKPLPCRQPAPIRGFWIVPDILGPTM  
ICITSTYECLIWPLLSTVHPASPPLLCTREDVEVAESPLRVLAETPDSEKHIRSILQRS  
VANPAFLKASEKDIAPPPEECLQLSRATQVFREQYILKQDLAKEEIQRRVKLLCDQKKK  
QLEDLSYCREERKSLREMAERLADKYEEAKEKQEDIMNRMKKLLHSFHSSELPVLSDSERD  
MKKELQLIPDQLRHLGNAIKQVTMKKDYQQQKMEKVLSPKPTIILSAYQRKCIQSILKE  
EGEHIREMVKQINDIRNHVNF

>sp|O15504|NUPL2\_HUMAN Nucleoporin-like protein 2 OS=Homo sapiens GN=NUPL2 PE=1 SV=1

MAICQFFLQGRCRFGDRCWNEHPGARGAGGGRQQPQQQPSGNRRGWNTTSQRYSNVIQP  
SSFSKSTPWGSRDQEKPYFSSFDGASTNRKEGFGLSENPFASLSPDEQKDEKKLEGI  
VKDMEVWESSQWMFVSVYSPVKKKPNISGFTDISPEELRLEYHNFLTNNLQSYLNSVQR  
LINQWRNRVNELKSLNISTKVALLSDVDGVNQAAPAFGFGSSQAATFMSPGFPVNNSSS  
DNAQNFSEKTSNGFAAASSGSPAGFGSSPAFGAAASTSSGISTSAPAFGFGKPEVTSAA  
FSFKSPAASSFGSPGFSGLPASLATGPVRAPVAPAFGGGSSVAGFGSPGSHSHTAFSKPS  
SDTFGNSSISTSLSASSSIIATDNVLFTRDKLTVEELEQFQSKKFTLGKIPLKPPPEL  
LNV

>sp|Q8TEA1|NSUN6\_HUMAN Putative methyltransferase NSUN6 OS=Homo sapiens GN=NSUN6 PE=1  
SV=1

MSIFPKISLRPEVENYLKEGFMNKEIVTALGKQEAERKFETLLKHLSHPPSFTTVRVNTH  
LASVQHVNLLLDLQKQFNGLSVPILQHPDLQDVLLIPVIGPRKNIKKQCEAIVGAQC  
GNAVLRGAHVYAPGIVSASQFMKAGDVISVYSIDIKGCKKGAKEFDGTVFLGNGISELS  
RKEIFSGLPKMGIRMTEPVYLSFSFDSVLPYFLQNLPSALVSHVLNPQPGEKILD  
LCAAPGGKTTHIAALMHDQGEVIALDKIFNKVEIKQNALLLGLNSIRAFCFDGTAKVKL  
DMVEDTEGEPPFLPESFDRILLDAPCSGMGQRPNMACTWSVKEVASYQPLQRKLFATAAVQ  
LLKPEGVLVYSTCTITLAENEEQVWALTKFPCLQLQPQEPQIGGEMRGAGLSCEQLKQ  
LQRFDPASVPLPDTMDSLREARREDMLRLANKDSIGFFIAKFVKCKST

>sp|Q96EP9|NTCP4\_HUMAN Sodium/bile acid cotransporter 4 OS=Homo sapiens GN=SLC10A4 PE=1  
SV=2

MDGNDNVTLLFAPLLRDNYTLAPNASSLGPGTDLALAPASSAGPGGLSLGPGPSFGFSP  
GPTPTPEPTTSLAGGAASHGPSFPFPRPWAPHALPFWDTPLNHGLNVFVGAALCITMLGL  
GCTVDVNHFGAHVRRPVGALLAALCQFGLPLLAFLALAFKLDEVAHAVVLLCGCCPGG  
NLSNLSLLVDGDMNLSIIMTISSTLLALVLMPLCLWIYSWAWINTPIVQLPLGTVTLT  
LCSTLPIGLGVFIRYKYSRVADYIVKVSLSLLVTLVVLVIMTGTMLGPELLASIPAAV

YVIAIFMPLAGYASGYGLATLFLHLPNCKRTVCLETGSQNVQLCTAILKLAFPPQFIGSM  
YMFPLLYALFQSAEAGIFVLIYKMYGSEMLHKRDPLDEDEDTDISYKKLKEEEMADTSYG  
TVKAENIIMMETAQTSL

>sp|P30989|NTRI\_HUMAN Neurotensin receptor type 1 OS=Homo sapiens GN=NTSR1 PE=1 SV=2

MRLNSSAPGTPGTPAADPFQRAQAGLEEALLAPGFGNASGNASERVLAAPSSSELDVNTDI  
YSKVLVTAVYLALFVVGTGNTVTAFTLARKKSLQSLQSTVHYHLGSLALSDLLTLLAM  
PVELYNFIWVHHPWAFGDAGCRGYFLRDACYATALNVASLSVERYLAICHFPKAKTLM  
SRSRTKKFISAIWLASALLAVPMLFTMGEQNRSDGQHAGGLVCTPTIHTATVKVVIQVN  
TFMSFIFPMVVISVLNTIIANKLTMVVRQAEEQGQVCTVGGEHSTFSMAIEPGRVQALRH  
GVRVLRVVIAFVVCWLPYHVRRLMFCYISDEQWTPFLYDFYHYFYMTNALFYVSSSTIN  
PILYNLVSANFRHIFLATLACLPVWRRRRKRPAFSRKADSVSSNHTLSSNATRETL

>sp|Q9P121|NTRI\_HUMAN Neurotrimin OS=Homo sapiens GN=NTM PE=1 SV=1

MGVCGYLFLPWKCLVVVSLRLLFLVPTGVPVRSGDATFPKAMDNTVRQGESATLRCTID  
NRVTRVAWLNRSTILYAGNDKWCLDPRVLLSNTQTQYSIEIQNVVDYDEGPYTCVQTD  
NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV  
SEDEYLEIQGITREQSGDYECASNDVAAPVVRVKVTNYPPISEAKGTGVPVGQKGT  
LQCEASAVPSAEFQWYKDDKRLIEGKKGKVENRPFSLKLIFFNVSEHDYGNITCVASNK  
LGHTNASIMLFGPGAVSEVSNGTSRAGCVLLPLLVLHLLKLF

>sp|P04629|NTRK1\_HUMAN High affinity nerve growth factor receptor OS=Homo sapiens GN=NTRK1  
PE=1 SV=4

MLRGGRRGQLGWSWAAGPGSLLAWLILASAGAAPCPDACCPHGSSGLRCTR DGALDSLH  
HLPGAENLTelyIENQHLQHLELRDLRGLGELRNLTIVKSGLRFVAPDAFHFTPRLSRL  
NLSFNALESLSWKTVQGLSLQELVLSGNPLHCSCALRWLQRWEEEGGGVPEQKLQCHGQ  
GPLAHMPNASCVPPTLKVQVPNASVDVGDDVLLRCQVEGRGLEQAGWILTELEQSATVMK  
SGGLPSLGLTLANVTSDLNRKNVTCWAENDVGRAEVSQVNVSFASVQLHTAVEMHHWC  
IPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYT  
LLAANPFGQASASIMAAFMDNPFEPNPEDPIPVSFSPVDNSTSGDPVEKKDET PFGVSV  
AVGLAVFACLFLSTLLLVLNKCGRRNKFGINRPAVLAPEDGLAMSLHFMTLGGSSLSPT  
GKSGSLQGHIENPQYFSDACVHHIKRRDIVLKWELGEGAFGKVFLAECHNLLPEQDKML  
VAVKALKEASESARQDFQREAE LLMQHQHIVRFFGVCTEGRPLLMVFEYMRHGD LNR  
LRSHGPDAKLLAGGEDVAPGPLGLGQLLAVASQVAAGMVYLAGLHFVHRDLATRNCLVGQ  
GLVVKIGDFGMSRDIYSTDYRVGGRTMLPIRWMPPEILYRKFTTESDVWSFGVVLWEI  
FTYGKQPWYQLSNTAIDCITQGRELERPRACPPEVYAIMRGCWQREPQQRHSIKDVHAR  
LQALAQAPPVYLDVLG

>sp|P49790|NUP153\_HUMAN Nuclear pore complex protein Nup153 OS=Homo sapiens GN=NUP153 PE=1  
SV=2

MASGAGGVGGGGGKIRTRRCHQPIKPYQQGRQQHQGILSRVTESVKNIVPGWLQRYFN  
KNEDVCSCSTDTSEVPRWPNKEDHLVYADEESSNITDGRITPEPAVSNTTEPSTTSTAS  
NYPDVLTRPSLHRSHLNFMSLESPALHCQPSTSSAFPIGSSGFSLVKEIKDSTSQHDDDN  
ISTTSFGSSRASDKDITVSKNTSLPPLWSPEAERSHLSQHTATSSKKPAFNLSAFGTL  
PSLGNSSILKTSQLGDSPFYPGKTTYGAAAAVRQSKLRNTPYQAPVRRQMKAKQLSAQS  
YGVTSSTARRILQSEKMSSPLADAKRIPSIVSSPLNSPLDRSGIDITDFQAKREKVDSQ  
YPPVQRLMTPKPVSIATNRSVYFKPSLTPSGEFRKTNQRIDNKCSTGYEKNMTPGQNREQ  
RESGFSYPNFSPLPAANGLSSGVGGGGGKMRRERTRFVASKPLEEEEMEVPVLPKISLPIT

SSSLPTFNFSSPEITTSSPSPINSSQALTNKVQMTSPSSTGSPMFKFSSPIVKSTEANVL  
PPSSIGFTFSVPVAKTAELSGSSSTLEPIISSSAHHVTTVNSTNCKKTPPEDCEGPFRPA  
EILKEGSLVDILKSPGFASPKIDSVAQAQPTATSPVVYTRPAISSFSSSGIGFGESLKAGS  
SWQCDTCLLQNKVTDNKCIAQAAKLSPRDTAKQTGIETPNKSGKTTLSASGTGFGDKFK  
PVIGTWDCDTCLVQNKPEAIKCVACETPKPGTCVKRALTLTVVSESAETMTASSSSCTVT  
TGTLGFGDKFKRPIGWECSVCCVSNNAEDNKCVCMSSEKPGSSVPASSSSTVPVSLPSG  
GSLGLEKFKKPEGSWDCLELCLVQNKADSTKCLACESAKPGTKSGFKGFDTSSSSSNSAAS  
SSFKFGVSSSSSGPSQTLTSTGNFKFGDQGGFKIGVSSDSGSINPMSEGFKFSKPIGDFK  
FGVSSSESKPEEVKKDSKNDNFKFLSSGLSNPVSLTPFQFGVSNLGQEEKKEELPKSSSA  
GFSFGTGVINSTPAPANTIVTSENKSSFNLTGTIETKSASVAPFTCKTSEAKKEEMPATKG  
GFSFGNVEPASLPSASVFLGRTEEKQEPVTSTSLVFGKKADNEEPCQPVFSFGNSEQ  
TKDENSSKSTFSFSMTKPSEKESEQPAKATFAFGAQTSTTADQGAAPVFSFLNNSSSSS  
STPATSAGGGIFGSSTSSSNPPVATFVFGQSSNPVSSSAFGNTAESSTSQSLLFSQDSKL  
ATTSSTGTAVTPFVFGPGASSNNTTSGFGFGATTSSSAGSSFVFGTGPSAPSASPAFG  
ANQPTFTGQSQASQPNPPGFGSISSTALFPTGSQPAPPTFGTVSSSQPPVFGQPSQ  
SAFGSGTTPNSSSAFQFGSSTTNFTNNSPSGVFTFGANSSTPAASAQPSGSGGFPFNQ  
SPAFTVGSNGKNVFSSSGTSFSGRKIKTAVRRRK

>sp|Q5SRE5|NU188\_HUMAN Nucleoporin NUP188 homolog OS=Homo sapiens GN=NUP188 PE=1 SV=1

MAAAAGGPCVRSSRELWTILLGRSALRELSQIEAELNKHWRRLLEGLSYYKPPSPSSAEK  
VKANKDVASPLKELGLRISKFLGLDEEQSVQLLQCYLQEDYRGRDTSVKTVLQDERQSSA  
LILKIADYYYYEERTCILRCVLHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQQFEEL  
YKTEAPTWETHGNLMTERRQVSRWFVQCLREQSMLEIIFLYYAYFEMAPSDLLVLTGMFK  
EQGFGSRQTNRLVDETMDPFVDRIGYFSALILVEGMDIESLHKCALDDRRELHQFAQDG  
LICQDMDCLMLTFGDIHPHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFYQLTR  
LLQSLASGGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQQDIIDTACEVLADPSLPELF  
WGTEPTSGLGIILDSVCGMFPHLLSPLLQLLRALVSGKSTAKKVYSFLDKMSFYNELYKH  
KPHDVISHEDGTLWRRQTPKLLYPLGGQTNLRIPQGTVGQVMLDDRAYLVRWEYSYSSWT  
LFTCEIEMLLHVSTADVIQHCQRVKPIIDLVHKVISTDLSIADCLLPITSRIYMLLQRL  
TTVISPPVDVIAVCNCLTVLAARNPAKVWTDLRHTGFLPFVAHPVSSLSQMISAEGMNA  
GGYGNLLMNSEQPQGEYGVTTIAFLRLITTLVKGQLGSTQSQGLVPCVMFVLKEMLPYHK  
WRYNSHGVREQIGCLILELIIHAILNLCHETDLHSSHTPSLQFLCICSLAYTEAGQTVINI  
MGIGVDITDMVMAAQPRSDGAEQGQGLL IKTVKLAFSVTNNVIRLKPPSNVVSPLQA  
LSQHGAHGNNLIAVLAKYIYHKHDPALPRLAIQLLKRLATVAPMSVYACLGNDAAAIRDA  
FLTRLQSKIEDMRIKVMILEFTVAVETQPGLIELFLNLEVKGSDGSKEFSLGMWSCLH  
AVLELIDSQQQDRYWCPLLHRAAIAFLHALWQDRRDSAMLVLRTPKPFWENLTSPLFGT  
LSPPSETSEPSILETCALIMKIIICLEIYYVVKGSLDQSLKDTLKKFSIEKRFAYWSGYVK  
SLAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLTDSVRRQLFLDVLDGT  
KALLVPASVNCRLRSGMKCTLLLILLRQWKRELGSVDEILGPLEILEGVLQADQQLME  
KTKAKVFSAFITVLQMKEMKVS DIPQYSQVLNVCETLQEEVIALFDQTRHSLALGSATE  
DKDSMETDDCSRSRHRDQRDGVCVLGLHLAKELCEVDEGDGSLQVTRRLPILPTLLTTL  
EVSLRMKQNLHFTEATLHLLTLARTQQGATAVAGAGITQSICLPLLSVYQLSTNGTAQT  
PSASRSLDAPSWPGVYRLSMSLMEQLLKTLYNFLPEALDFVGVHQERTLQCLNAVRTV  
QSLACLEEADHTVGFIQLSNFMKEWHFHLPLQLMRDIQVNLGYLCQACTSLLHSRKMQLH  
YLQKNKGDLPSAVAQRVQRPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLKILSK

TLAALRHFTPDVCQILLDDQSLDLAEYNFLFALSFTTPTFDSEVAPSFGTLLATVNVALNM  
LGELDKKKEPLTQAVGLSTQAEGTRTLKSLMFTMENC FYLLISQAMRYLRDPAVHPRDK  
QRMKQELSSSELSTLLSSLSRYFRRGAPSSPATGVLPSPPQKSTSLKASPESQEPLIQLV  
QAFVRHMQR

>sp|P03905|NU4M\_HUMAN NADH-ubiquinone oxidoreductase chain 4 OS=Homo sapiens GN=MT-ND4  
PE=1 SV=1

MLKLIVPTIMLLPLTWLSKKHMIWINTTTHSLIISIPLFFNQINNLFSCSPTFSSDP  
LTTPLMLTTWLLPLTIMASQRHLSSEPLSRKKLYLSMLISLQISLIMTFTATELIMFYI  
FFETTLIPTLAIITRWGNQPERLNAGTYFLFYTLVGSPLLLIALIYHTNLGSLNILLT  
LTAQELSNSWANNLMWLAYTMAFMVKMPYGLHLWLPKAHVEAPIAGSMVLA AVLKLGG  
YGMRLTLILNPLTKHMAYPFLVLSLWGMIMTSSICLRQTDLKSIA YSSISHMALVVTA  
ILIQTPWSFTGAVILMIAHGLTSSLLFCLANSNYERTHSRIMILSQGLQTLPLMAFWWL  
LASLANLALPPTINLLGELSVLVTTFWSNITLLLTGLNMLVTALYSLYMFTTTQWGS LT  
HHINNMKPSFTRENTLMFMHLSPIILLSLNPDIITGFSS

>sp|Q96DE0|NUD16\_HUMAN U8 snoRNA-decapping enzyme OS=Homo sapiens GN=NUDT16 PE=1 SV=2

MAGARRLELGEALALGSGWRHACHALLYAPDPGMLFGRIPRYAILMQMRFDGRLGFPGG  
FVDTQDRSLEDGLNRELREELGEAAAAFRVERTDYRSSHVGS GPRVVAHFYAKRLTLEEL  
LAVEAGATRAKDHGLEVLGLVRVPLYTLRDGVGGLPTFLENSFIGSAREQLLEALQDLGL  
LQSGSISGLKIPAHH

>sp|Q96RS6|NUDC1\_HUMAN NudC domain-containing protein 1 OS=Homo sapiens GN=NUDC1 PE=1  
SV=2

MEVAANCSLRVKRPLLDPRFEGYKLSLEPLPCYQLELDAAVA EVKL RDDQYTL EHMHA FG  
MNYNLHCDSWYQDSVYYIDTLGRIMNLTVMLDTALGKPREVFRLPTDLTACDNRLCASI H  
FSSSTWVTLSDGTGRLYVIGTGERGNSASEKWEIMFNEELGDPFII IHSISLLNAEEHSI  
ATLLLRIEKEELDMKSGFYVSLEWVTISKKNQDNKKYEI IKRDILRGKSVPHYAAIEPD  
GNGLMIVSYKSLTFVQAGQDLEENMDEDISEKIKEPLYWQQTEDDLTVTIRLPEDSTKE  
DIQIQFLPDHINIVLKDHFLEGKLYSSIDHESSTWIIKESNSLEISLIKKNEGLTWP EL  
VIGDKQGELIRDSAQCAAI AERLMHLTSEELNPNPDKEKPPCNAQELEECDIFFEES SL  
CRFDGNTLKTTHVNLGSNQYLF SVIVDPKEMPCFCLRHVDALLWQPHSSKQDDMWEHI  
ATFNALGYVQASKRDKKFFACAPNYSYAALCECLRRVFIYRQPAPMSTVLYNRKEGRQVG  
QVAKQQVASLETNDPILGFQATNERLFVLTTKNLFLIKVNTEN

>sp|Q8IVD9|NUDC3\_HUMAN NudC domain-containing protein 3 OS=Homo sapiens GN=NUDC3 PE=1  
SV=3

METGAAELYDQALLGILQHVGNVQDFLRVLFGFLYRKTD FYRLLRHPSDRMGFP PGAAQA  
LVLQVFKTFDHMARQDDEKRRQELEEKIRRKEEEEAKTVSAAAAEKEPVVPVQEIEIDS  
TTELDGHQEVEKVQPPGPVKEMA HGSQEAEPGAVAGAAEVPREPPILPRIQE QFQKNPD  
SYNGAVRENYTWSQDYTDLEVRVPVPKHVVGKQVSVALSSSSIRVAMLEENG ERLMEG  
KLTHKINTESSLWSLEPGKCVLVNLSKVG EYWWNAILEGEEPIDIDKINKERSMATVDEE  
EQAVLDRLTFDYHQKLQGKPQSHELVHEMLKKGWDAEGSPFRGQRFDPAMFNISPGAVQ  
F

>sp|Q9NZJ9|NUDT4\_HUMAN Diposphoinositol polyphosphate phosphohydrolase 2 OS=Homo sapiens  
GN=NUDT4 PE=1 SV=2

MMKFKPNQTRTYDREGFKKRAACLCFRSEQEDEVLLVSSSRYPDQWIVPGGMEPEEEPG  
GAAVREVYEEAGVKGLGRLLGIFENQDRKHRTYVYVLT VTEILEDWEDSVNIGRKREWF

KVEDAIKVLQCHKPVHAEYLEKLKLGCSANGNSTVPSLPDNNALFVTAAQTSGLPSSVR

>sp|Q9Y6R0|NUMBL\_HUMAN Numb-like protein OS=Homo sapiens GN=NUMBL PE=1 SV=1

MSRSAAASGGPRRPERHLPPAPCGAPGPETCRTEPDGAGTMNKLRLRRRKPAYVPEA  
SRPHQWQADEDAVRKGTCSFPVRYLGHVEVEESRGMHVCEDAVKKLKAMGRKSVKSVLWV  
SADGLRVVDDKTKDLLVDQTIEKVSFCAPDRNLDAFYSYICRDGTTRRWICHCFALKDS  
GERLSHAVGCAFAACLERKQRREKECGVTAAFDASRTSFAREGSFRLSGGGRPAEREAPD  
KKKAEAAAAPTVAPGPAQPGHVSPTATTSPGEKGEAGTPVAAGTTAAAIIPRRHAPLEQL  
VRQGSFRGFPALSQKNSPFKRQLSLRLNELPSTLQRRTDFQVKGTPEMEPPGAGDSDSI  
NALCTQISSSFASAGAPAGPPPATTGTSAWGEPSVPPAAAFQPGHKRTPSEAERWLEEV  
SQVAKAQQQQQQQQQQQQQQQQQAASVAPVPTMPPALQFPAPVGPFDAAAPQVAVF  
LPPPHMQPPFVPAYPGLGYPPMPRPVVGITPSQMVANAFCSAAQLQPQPATLLGKAGAF  
PPPAIPSAPGSQARPRPNGAPWPPEPAPAPAPELDPFEAQWAALEGKATVEKPSNPFSGD  
LQKTFEIEL

>sp|P61457|PHS\_HUMAN Pterin-4-alpha-carbinolamine dehydratase OS=Homo sapiens GN=PCBD1  
PE=1 SV=2

MAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGMTRVALQAEKL  
DHHPEWFNVYKVVHITLSTHECAGLSERDINLASFIEQVAVSMT

>sp|Q9UMS5|PHTF1\_HUMAN Putative homeodomain transcription factor 1 OS=Homo sapiens  
GN=PHTF1 PE=2 SV=2

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FAKAKPEIPWTSLTRKGLVRVVFPLFSNWWIQVTSRLIFVWLLLLYFMQVIAIVLYLMM  
PIVNISEVLGPLCLMLMGTVHCQIVSTQITRPSGNGNRRRRKLKRTVNGDGSRENGN  
SSDKVRGIETLESVPIIGGFWETIFGNRIKRVKLISNKGTTETDNDPSCVHPIIKRRQCRP  
EIRMWQTREKAKFSDGEKCRREAFRRLGNGVSDDLSEEDGEARTQMILLRRSVEGASSD  
NGCEVKNRKSILSRHLNSQVKKTTTRWCHIVRDSDSLAESEFESAAFSQGSRSGVSGGSR  
SLNMSRRDSESTRHDSETEDMLWDDLHGPECRSSVTSDEGAHVNTLHSGTKRDPKEDV  
FQQNHLFWLQNSSPSSDRVSAIIWEGNECKKMDMSVLEISGIIMSRVNAYQQGVGYQMLG  
NVVTIGLAFFPFLHRLFREKSLDQLKSISAEELTLFCGAPPVTPPIIVLSIINFERRCL  
TWMFFFMCAERTYKQRFLLAKLFSHITSARKARKYIPHFRLKKVENIKIWLRLRSYL  
KRRGPQRSVDVVSSVFLTLSIAFICCAQVLQGHKTFLNDAYNWEFLIWETALLFLLR  
LASLGSETNKKYSNVSILLTEQINLYLMEKKPNKKEQLTLVNNVLKLSKLLKELDTPF  
RLYGLTMNPLIYNITRVVILSAVSGVISDLLGFNIRLWKIKS

>sp|Q99570|PI3R4\_HUMAN Phosphoinositide 3-kinase regulatory subunit 4 OS=Homo sapiens  
GN=PIK3R4 PE=1 SV=3

MGNQLAGIAPSQILSVESYFSDIHDFFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDP  
TLPLTSYKQEELKIRLNSAQNCLPFQKASEKASEKAAMLFRQYVRDNLIDRISTRPFL  
NNIEKRWIAFQILTAVDQAHSQVVRHGDIKTENVMVTSWNWVLLTDFASFQPTYLPEDNP  
ADFNYFFDTSRRRTCYIAPERFVDGGMFATELEYMRDPSTPLVDLNSNQRTGELKRAMD  
IFSAGCVIAELFTEGVPLFDLSQLLAYRNGHFFPEQVLNKIEDHSIRELVTQMIHREPK  
RLEAEDYLKQQRGNAPFEIFYTFLQPYMAQFAKETFLSADERILVIRKDLGNIHNLGCGH  
DLPEKAEGEPKENGLVILSVITSCLQTLKYCDSKLALELILHLAPRLSVEILLDRITP  
YLLHFSNDSVPRVRAEALRTLTKVLALVKEVPRNDINIYPEYILPGIAHLAQDDATIVRL  
AYAENIALLAETALRFELEVLKLNLMENDPNNEEIDEVTHPNGNYDELQALHEMVQQK  
VVTLLSDPENIVKQTLMEGITRLCVFFGRQKANDVLLSHMITFLNDKNDWHLRGAFFDS

IVGVAAYVGWQSSSILKPLLQQGLSDAEFVIVKALYALTCMCQLGLLQKPHVYEFASDI  
APFLCHPNLWIRYGAVGFITVVARQISTADVCKLMPYLDPYITQPIIQIERKLVLLSVL  
KEPVRSRIFDYALRSKDITSLFRHLHMRQKKRNGSLDCPPPEDPAIAQLLKKLLSQGMT  
EEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLAALGITGRQVDLVKTKQEP  
DDKRARKHVKQDSNVNEEWKSMFGSLDPPNMPQALPKGSDQEVITGKPPRSESSAGICV  
PLSTSSQVPEVTTVQNKKPVIPVLSSTILPSTYQIRITTCKTELQQLIQKREQCNAERI  
AKQMMENAWESEKPPPPGWRPKGLLVAHLHEHKSAVNRIRVSDEHSLFATCSNDGTVKIW  
NSQKMEGKTTTTRSILTYSRIGGRVKTFTFCQGSHYLAIASDNGAVQLLGIEASKLPKSP  
KIHPLQSRILDQKEDGCVVDMHHFNSSGAQSVLAYATVNGSLVGWDLRSSNAWTLKHDLK  
SGLITSFAVDIHQCWLCIGTSSGTMACWDMRFQLPISSHCHPSRARIRRLSMHPLYQSWV  
IAAVQGNNEVSMWDMETGDRRFTLWASSAPLSELQSPHVSVHGIYCSPADGNPILLTAG  
SDMKIRFWDLAYPERSYVAGSTSSPSVSYRKIIIEGTEVVQEIQNKQKVGPSDDTPRRG  
PESLPVGHHDIIITDVATFQTTQGFIVTASRDGIVKVWK

>sp|P42356|PI4KA\_HUMAN Phosphatidylinositol 4-kinase alpha OS=Homo sapiens GN=PI4KA PE=1  
SV=4

MAAAPARGGGGGGGGGCGSGSSASRGFYFNTVLSLARSLAVQRPASLEKVQKLLCMC  
PVDFHGIFQLDERRRDAVIALGIFLIESDLQHKDCVVPYLLRLKGLPKVYWEESTARK  
GRGALPVAESFSFCLVTLLSDVAYRDP SLRDEILEVLLQVLHVLLGMCQALEIQDKEYLC  
KYAIPCLIGISRAGRYSNMEESLLSKLFPKIPPHSLRVLEELEGVRRRSFNDFRSILPS  
NLLTVCQEGTLKRKTSVSSISQVSPERGMPSSPGGSFAHYFEASCLPDGTALEPEYY  
FSTISSFSVSPLFNGVYKEFNIPLEMLRELLNLVKKIVEEAVLKS LDAIVASVMEANP  
SADLYYTSFSDPLYLTMFKMLRDTLYYMKDLPTS FVKEIHDFVLEQFNTSQGELQKILHD  
ADRIHNEL SPLKLRCAANAACVDLMVWAVKDEQGAENLCIKLSEKLQSKTSSKVI IAHLP  
LLICCLQGLGRLCERFPVVVHSTVPSLRDFLVIPSPVLVKLYKHSQYHTVAGNDIKISV  
TNEHSESTLNVMGKKSQPSMYEQLRDIAIDNICRCLKAGLTVDPVIVEAFLASLSNRLY  
ISQESDKDAHLIPDHTIRALGHIAVALRDTPKVMEPILQILQQKFCQPPSPLDVLIIDQL  
GCLVITGNQYIYQEVWNLFQQISVKASSVVYSATKDYKDHGYRHCSLAVINALANIAANI  
QDEHLVDELLMNLELFVQLGLEGKRASERASEKGPALKASSSAGNLGVLIPVIAVLTRR  
LPPIKEAKPRLQKLFRDFWLYSVLMGFAVEGSGLWPEEWYEGVCEIATKSPLLTFPSKEP  
LRSVLQYNSAMKNDVTPAELSELSTIINLLDPPPEVSALINKLDFAMSTYLLSVYRLE  
YMRVLRSTDPRFQVMFCYFEDKAIQKDKSGMMQCVIADKVFDAFLNMMADKAKTKEN  
EEELERHAQFLLVNFNHIHKRIRRVADKYL SGLVDKFPHLLWSGTVLKTMLDILQTLSLS  
LSADIHKDQPYDIPDAPYRITVPDTYPEARESIVKDFAAFCGMILQEAMKWAPT VTKSHL  
QEYLNKHQNWVSGLSQHTGLAMATESILHFAGYNKQNTTLGATQLSERPACVKKDYSNFM  
ASLNLRNRYAGEVYGMIRFSGTTGMSDLNKMVQDLHSALDRSHPQHYTQAMFKLTAML  
ISSKDCDPQLLHHLWCWGLRMFNEHGMETALACWEWLLAGKDGVEVPFMRMAGAWHMTV  
EQKFGFLSAEIKEADPLAASEASQPKPCPPEVTPHYIWIIDFLVQRFEIAKYCSSDQVEIF  
SSLLQRSMSLNIGGAKGSMNRHVAAGPRFKLLTLGLSLLHADVVPNATIRNVLREKIYS  
TAFDYFSCPPKFPTQGEKRLREDISIMIKFWTAMFSDKKYLTASQLVPPDNQDTRSNLDI  
TVGSRQQATQGWINTYPLSSGMSTISKSGMSKKTNRGSQLHKYYMKRRTLLLSLLATEI  
ERLITWYNPLSAPELELDQAGENS VANWRSKYISLSEKQWKDNVNLAWSISPYLAVQLPA  
RFKNTEAIGNEVTRLVRLDPGAVSDVPEAIKFLVTWHTIDADAPELSHVLCWAPTDPPTG  
LSYFSSMYPPHPLTAQYGVKVLRSFPDAILFYIPQIVQALRYDKMGYVREYILWAASKS  
QLLAHQFIWNMKTNIYLDEEGHQKDPDIGDLLDQLVEEITGSLSGPAKDFYQREFDFFNK

ITNVSATIKPYPKGDERKKACLSALSEVKVQPGCYLPSNPEAIVLDIDYKSGTPMQSAAK  
APYLAKFKVKRCGVSELEKEGLRCRSDSEDECSTQEADGQKISWQAAIFKVGDDCRQDML  
ALQIIDLFKNIFQLVGLDLFVFPYRVVATAPGCGVIECIPDCTSRDQLGRQTDGMYDYF  
TRQYGDESTLAFQQARYNFIIRSMAYSLLLFLLQIKDRHNGNIMLDKKGHIHIDFGFMF  
ESSPGGNLGWEPDIKLTDEMVMIMGGKMEATPFKWFMEMCVRGYLAVRPYMDAVVSLVTL  
MLDTGLPCFRGQTIKLLKHRFSPNMTEREANFIMKVIQSCFLSNRSRTYDMIQYYQNDI  
PY

>sp|060331|PI51C\_HUMAN Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma OS=Homo sapiens GN=PIP5K1C PE=1 SV=2

MELEVPDEAESAEAGAVPSEAAWAAESGAAAGLAQKKAAPTEVLSMTAQPGPGHGKKLGH  
RGVDASGETTYKKTSSSTLKGAIQLGIGYTVGHLSSKPERDVLMDFYVVESIFFPSEGS  
NLTPAHHFQDFRFTYAPVAFRYFRELFGIRPDDYLYSLCNEPLIELSNPGASGSLFYVT  
SDDEFI IKTVMHKEAEFLQKLLPGYYMNLNQNPRTL LPKFYGLYCVQSGGKNIRVVMMN  
ILPRVVKMHLKFDLKGSTYKRRASKKEKEKSFTYKDLDFMQDMPEGLLLDADTF SALVK  
TLQRDCLVLESFKIMDYSLLLGVHNIDQHERERQAQAQSTSDEKRPVGQKALYSTAMES  
IQGGAARGEAIESDDTMGGIPAVNGRGERLLHHIGIIDILQSYRFIKKLEHTWKALVHDG  
DTVSVHRPSFYAERFFKFSNTVFRKNSSSLKSSPSKGRGGALLAVKPLGPTAAFSASQI  
PSEREEAQYDLRGARSYPTLEDEGRPDLLPCTPPSFEEATTASIATLSSTSL SIPERSP  
SETSEQPRYRRRTQSSGQDGRPQEPPAEEDLQQITVQVEPACSVEIVVPKEEDAGVEAS  
PAGASAAVEVETASQASDEEGAPASQASDEEDAPATDIYFPTDERSWVYSPLHYSAQAPP  
ASDGESDT

>sp|Q9Y237|PIN4\_HUMAN Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 OS=Homo sapiens GN=PIN4 PE=1 SV=1

MPPKGKSGSGKAGKGAASGSDSADKKAQGPKGGGNAVKVRHILCEKHGKIMEAMEKLKS  
GMRFNVAQAQYSEDKARQGGDLGWMTRGSMVGPFQEAALFALPVSGMDKPVFTDPPVKT  
GYHIIMVEGRK

>sp|000625|PIR\_HUMAN Pirin OS=Homo sapiens GN=PIR PE=1 SV=1  
MGSSKKVTL SVLSREQSEGVARVRSIGRPELKNLDPFLFDEFKGGRPGGFPDHPHRG  
FETVSYLLEGGSMAHEDFCGHTGKMNPGDLQWMTAGRGILHAEMPCSEPAHGLQLWVNL  
RSSEKMVEPQYQELKSEEIPKPSKDGVTVAVISGEALGIKSKVYTRTPTLYLDFKLDPGA  
KHSQPIPKGWTSTFIYTISGDVYIGPDDAQKIEPHHTAVLGEGDSVQVENKDKPRSHFVL  
IAGEPLREPVIQHGPVVMNTNEEISQAILDFRNAKNGFERAKTWKSKIGN

>sp|P28069|PIT1\_HUMAN Pituitary-specific positive transcription factor 1 OS=Homo sapiens GN=POU1F1 PE=1 SV=1

MSCQAFTSADTFIPLNSDASATLPLIMHSAECLPVSNHATNMSTATGLHYSVPSCHY  
GNQPSTYGV MAGSLTPCLYKFPDHTLSHGFPPIHQPLLAEDPTAADFKQELRRKSKLVEE  
PIDMSPEIRELEKFANEFKVRRIKLGYTQTNVGEALAAVHGSEFSQTTICRFENLQLSF  
KNACKLKAILSKWLEAEQVGALYNEKVGANERKRKRRTTISIAAKDALERHFGEQNKPS  
SQEIMRMAEELNLEKEVVRVWFCNRRQREKRVKTSLNQSLFSISKEHLECR

>sp|Q9HB19|PKHA2\_HUMAN Pleckstrin homology domain-containing family A member 2 OS=Homo sapiens GN=PLEKHA2 PE=1 SV=2

MPYVDRQNRICGFLDIEEHENSGKFLRRYFILDQANCLLWYMDNPQNLAMGAGAVGALQ  
LTYISKVSIATPKQKPKTPFCFVINALSQRYFLQANDQKMDKWVEALNQASKITVPKGG  
GLPMTTEVLKSLAAPPALKKPVAYKTEIIGGVVVHTPISQNGGDGQEGSEPGSHTILR



RSQSYIPTSGCRASTGPPLIKSGYCVKQGNVRKSWKRRFFALDDFTICYFKCEQDREPLR  
TIFLKDVLTKECLVKSGDLLMRDNLFEIITSSRTFYVQADSPEDMHSWIKEIGAAVQAL  
KCHPRETSFSRSISLTRPGSSSLSSGPNILCRGRPPLEEKALKAPSVASSWQPWTPV  
PQAGEKLLPPGDTSEDSLFTPRPGEGAPPGVLPSSRIRHRSEPQHPKEKPFMFNLDDENI  
RTSDV

>sp|Q494U1|PKHN1\_HUMAN Pleckstrin homology domain-containing family N member 1 OS=Homo sapiens GN=PLEKH1 PE=1 SV=2

MGNSHCVPQAPRRRLASF SRKPSLKG NREDSARMSAGLPGEAARSGDAAANKLFHYIPG  
TDILDLENQRENLEQPFSLSVFKKGRRRVPVRNLGKV VHYAKVQLRFQHSQDVSDCYLELF  
PAHLYFQAHGSEGLTFQGLLPLTELSVCPLEGSREHAFQITGVWDASRAPRGTPDPGLGE  
GPALWLRSTCVVYCALSALPAGPLPAPLLVLCPSRAELDRWLYHLEKQTALLGGPRRCHS  
APPQSGCGDELPWTLQRRLTRLRTASGHEPGGSAVCASRVKLQHLPAQE QWDRLLVLYPT  
SLAIFSEELDGLCFKGELPLRAVHINLEEKEKQIRSFLIEGPLINTIRVVCASYEDYGHW  
LLCLRAVTHREGAPLPGAESFPGSQVMGSGRGLSSGGQTSWDSGCLAPPSTRTSHSLP  
ESSVPSTVGCSSQHTPDQANS DRASIGRRRTELRRSGSSRSPGSKARAEGRGPVTPHLHD  
LTQLHRLSLESSPDAPDHTSETSHSPLYADPYTPPATSHRRVTDVRGLEEFLSAMQSARG  
PTPSSPLSPVPSVPASDPRSCSSGPAGPYLLSKKGALQSRAAQRHRGSAKDGGPQPPDA  
PQLVSSAREGSPEPWLPLTDGRSPRRSRDPGYDHLWDETLSSSHQKCPQLGGPEASGGLV  
QWI

>sp|Q53H76|PLA1A\_HUMAN Phospholipase A1 member A OS=Homo sapiens GN=PLA1A PE=2 SV=2

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PSCGQLVEGSSDLQNSGFNATLTGKLI IHGFRVLGTKPSWIDTFIRTLLRATNANVIAVD  
WIYGSTGVYFSAVKNVIKLSLEISLFLNKLVLGVSESSIHIIGVSLGAHVGMVGQLFG  
GQLGQITGLDPAGPEYTRASVEERLDAGDALFVEAIHTD TDNLGIRIPVGHVDYFVNGGQ  
DQPGCPTFFYAGYSYLICDHMRAVHLYISALENSCPLMAFP CASYKAFLAGRCLDCFNPF  
LLSCPRIGLVEQGGVKIEPLPKEVKVYLLTSSAPYCMHHS LVEFHLKELRNKDTNIEVT  
FLSSNITSSSKITIPKQQRYGKGI IAHATPQCQINQVKFKFQSSNRVWKKDRTTIIGKFC  
TALLPVNDREKMVCLPEPVNLQASVTVSCDLKIACV

>sp|Q6DJT9|PLAG1\_HUMAN Zinc finger protein PLAG1 OS=Homo sapiens GN=PLAG1 PE=1 SV=1

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PYKCIQQDCTKAFVSKYKLQRHMATHSPEKTHKCN YCEKMFHRKDHLKNHLHTHDPNKET  
FKCEECKNYNTKLGFRHLALHAATSGDL TCKVCLQTFESTGV LLEHLKSHAGKSSGGV  
KEKKHQCEHCDRRFYTRKDVRRH MVVHTGRKDFLCQYCAQRFGRKDHLTRHMKKSHNQEL  
LKVKTEPVDFLDPFTCNVSVPIKDELLPVMSLPSELLSKPFTNTLQLNLYNTPFQSMQS  
SGSAHQMITTLPLGMTCPIDMDTVHPSHHLSFKYPFSSTSYAIS IPEKEQPLKGEIESYL  
MELQGGVPSSSQDSQASSSSKLGLDPQIGSLDDGAGDLSLSKSSISISDPLNTPALDFSQ  
LFNFIPLNGPPYNPLSVGSLGMSYSQEEAHSSVSQ LPPQTQDLQDPANTIGLGLHLSLSA  
AFTSSLSTSTTLPRFHQAFQ

>sp|Q8NHP8|PLBL2\_HUMAN Putative phospholipase B-like 2 OS=Homo sapiens GN=PLBD2 PE=1 SV=2

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SRSVLLDVSAGQLLMVDGRHPDAVAVANLTNAIRETGWAFLELGTSGQYND SLQAYAAGV  
VEAAVSEELIYMHWMNTVVNYCGPF EYEVGYCERLKS FLEANLEWMQEEMESNPDSPYWH  
QVRLTLLQLKGLEDSYEGRVSFPAGKFTIKPLGFLLLQLSGDLEDE LALNKTIKPSLG  
SGSCSALIKLLPGQSDLLVAHNTWNNYQHMLRV IKKYWLQFREGPWGDYPLVPGNKLVS

SYPGTIFSCDDFYILGSLVTLETTIGNKNPALWKYVRPRGCVLEWVRNIVANRLASDGA  
TWADIFKRFSNGTYNNQWMIVDYKAFIPGGPSPGSRVLTILEQIPGMVVVADKTSELYQK  
TYWASYNIPSFETVFNASGLQALVAQYGDWFSYDGSRAQIFRRNQSLVQDMSMVRLMR  
YNDFLHDPLSLCKACNPQNGENAI SARSDLN PANGSYPFQALRQRSHGGIDVKVTSMSL  
ARILSLLAASGPTWDQVPPFQWSTSPFSGLLHMGQPD LWKFAPVKVSWD

>sp|Q00722|PLCB2\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2  
OS=Homo sapiens GN=PLCB2 PE=1 SV=2

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ITSIRDTRFGKFAKMPKSQKL RDVFNMDFPDNSFLLKTLTVVSGPDMVDLTFHNFVSYKE  
NVGKAWAEDVLALVKHPLTANASRSTFLDKILVKLKMQLNSEGKIPVKNFFQMFPADRKR  
VEAALSACHLPKGKNDAINPEDFPEPVYKSFLMSLCPRPEIDEIFTSYHAKAKPYMTKEH  
LTKFINQKQRDSRLNSLLFPARPQVQGLIDKYEPSGINAQRGQLSPEGMVWFLCGPEN  
SVLAQDKLLLHDMTQPLNHYFINSSHNTYLTAGQFSGLSSAEMYRQVLLSGCRCVELDC  
WKGKPPDEEPIITHGFTMTDIFFKEAIEAIAESAFKTSYPYIILSFENHVDSPRQQAQM  
AEYCRTIFGDMLLTEPLEKFPLKPGVPLPSPEDLRGKILIKNKKNQFSGPTSSSKDTGGE  
AEGSSPPSAPAGEGTVWAGEEGTELEEEVEEEEEESGNLDEEIKKMQSDEGTAGLEV  
TAYEEMSSLVNYIQPTKFVSFEFSAQKNRSYVISSFTELKAYDLLSKASVQFVDYNKRQM  
SRIYPKGTRMDSSNYMPQMFVNAGCQMVALNFQTMDLPMQQNMAVFEFNGQSGYLLKHEF  
MRRPDKQFNPFVSDRIDVVVATLSITVISGQFLSERSVRTYVEVELFGLPGDPKRRYRT  
KLSPSTNSINPVWKEEPFVFEKILMPELASLRVAVMEEGNKFLGHRIIPINALNSGYHHL  
CLHSESNMPLTMPALFIFLEMKDYIPGAWADLTVALANPIKFFSAHDTKSVKLKEAMGGL  
PEKPFPLASPVASQVNGALAPTSNGSPAARAGAREEAMKEAAEPRTASLEELRELKGVVK  
LQRRHEKELRELERRGARRWEELLQRGAQLAELGPPGVGGVGACKLGPCKGSRKKRSLP  
REESAGAAPGEGPEGVDGRVRELKDRLELELLRQGEEQYECVLKRKEQHVAEQISKMMEL  
AREKQAAELKALKETSENDTKEMKKKLETKRLERIQGMTKVTTDKMAQERLREINNSHI  
QEVVQVIKQMTENLERHQEKLEEKQAACLEQIREMEKQFQKEALAEYEARMKGLEAEVKE  
SVRACLRTCFPSEAKDKPERACECPPELCEQDPLIAKADAQESRL

>sp|Q15147|PLCB4\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-4  
OS=Homo sapiens GN=PLCB4 PE=1 SV=3

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VTQWVEGLRSIIHNFRANNVSPMTCLKKHWMKLAFMTNTNGKIPVRSITRTFASGKTEK  
VIFQALKELGLPSGKNDEIEPTAFSYEKFYELTQKICPRTDIEDLFKKINGDKTDYLTVD  
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NAPVFLDRLELYQEMDHPLAHYFISSSHNTYLTGRQFGGKSSVEMYRQVLLAGCRCVELD  
CWDGKGEDQEPIITHGKAMCTDILFKDVIQAIKETAFVTSEYPVILSFENHCSKYQQYKM  
SKYCEDLFGDLLLKQALESHPLEPGRALPSPNDLKRKILIKNKRLKPEVEKKQLEALRSM  
MEAGESASPANILEDDNEEEIESADQEEEAHPEFKFGNELSADDLGHKEAVANSVKKGLV  
TVEDEQAWMASYKYVGATTNIHPYLSMINYAQPVKFQGFHVAEERNIHYNMSSFNESVG  
LGYLKTHAIEFVNYNKRQMSRIYPKGGRVDSSNYMPQIFWNAGCQMVSLNYQTPDLAMQL  
NQGKFEYNGSCGYLLKPDFMRRPDRTFDPFSETPVDGVIAATCSVQVISGQFLSDKKIGT  
YVEVDMYGLPTDITRKEFRTRMVNGLNPVYNESFVFRKVILPD LAVLRIAVYDDNNK  
LIGQRILPLDGLQAGYRHSILRNEGNKPLSLPTIFCNIVLKTYVPDGFGDIVDALSDPKK  
FLSITEKRADQMRAMGIETSDIADVPSDTSKNDKKGKANTAKANVTPQSSSELPTTTAA

LASGVEAKKGIELIPQVRIEDLKQMKAYLKHLKKQQKELNSLKKKHAKHSTMQKLHCTQ  
VDKIVAQYDKEKSTHEKILEKAMKKKGSNCLEMKKETEIKIQTLTSDHKSKVKEIVAQH  
TKEWSEMINTHSAEEQEIRDLHLSQQCELLKLLINAHEQQTQQLKLSHDRESKEMRAHQ  
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>sp|Q8N3E9|PLCD3\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3  
OS=Homo sapiens GN=PLCD3 PE=1 SV=3

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HQSEGLRRFGGAFAPARCLTIAFKGRRKNLDLAAPTAEAAQRWVRGLTKLRARLDAMSQR  
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AEIEEFRLRLLKRPELEEIFHQYSGEDRVLSAPELLEFLLEDQGEAGTLARAQQLIQTYE  
LNETAKQHELMTLDGFMYYLLSPEGAALDNHTCTVFDQMNQPLAHYFISSSHNTYLTDSQ  
IGGPSSTEAYVRAFAQGCRCVELDCWEGPGGEPVIYHGHTLTSKILFRDQVAVRDHAFT  
LSPYPVILSLENHCGLEQQAAMARHLCTILGDMVLTQALDSPNPEELPSPEQLKGRVLVK  
GKKLPAARSEDGRALSDREEEEDDEEEEEEVEAAQRRALAKQISPELSALAVYCHATRL  
RTLHPAPNAPQPCQVSSLERKAKKLIREAGNSFVRHNARQLTRVYPLGLRMNSANYSPQ  
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FIQIRIQRS

>sp|Q9BRC7|PLCD4\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4  
OS=Homo sapiens GN=PLCD4 PE=2 SV=1

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LLVDLVTSMQHRLDQWLSDFWQRGDKNQDGKMSFQEVQRLHLMNVEMDQEYAFSLFQ  
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TSELALELIDRYEPSDSGKLRHVLSDMGFLSYLCSKGDGIFNPACLPYQDMTQPLNHYF  
ICSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCVEVDVWDGPSGEPVYHGHTLTSRILF  
KDVVATVAQYAFQTSYDYPVILSLETHCSWEQQQTMARHLTEILGEQLLSTLDGVLPTQL  
PSPEELRRKILVKGKLTLEEDLEYEEEEAEPELEESELALESQFETEPEPQEQNLQNKD  
KKKSKPILCPALSSLVIYLSVSFRSFTHSKEHYHFYEISSFSETKAKRLIKEAGNEFV  
QHNTWQLSRVYPSGLRTDSSNYPQELWNAGCQMVAMNMQTAGLEMDICDGHFRQNGGCG  
YVLKPDFLRDIQSSFHPEKPISPFKAQTLLIQVISGQQLPKVDKTEGSIVDPLVKVQIF  
GVRLDTARQETNYVENNGFNPNYWGQTLCFRVLVPELAMLRVVMYDWDKSRNDFIGQYTL  
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>sp|Q9NUJ7|PLCX1\_HUMAN PI-PLC X domain-containing protein 1 OS=Homo sapiens GN=PLCX1  
PE=2 SV=1

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EESRLQLLNKALPCITRPVVLKWSVTQALDVTEQLDAGVRYLDLRIAHMLEGSEKNLHF  
VHMVYTALVEDTLTEISEWLERHPREVVILACRNFEGLSEDLHEYLVACIKNIFGDMLC  
PRGEVPTLRQLWSRGGQVIVSYEDESSLRRHHELWPGVPYWWGNRVKTEALIRYLETMKS  
CGRPGGLFVAGINTENLQYVLAHPSESLEKMTLPNLPRLSAWVREQCPGPGSRCTNIIA  
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>sp|Q96AD5|PLPL2\_HUMAN Patatin-like phospholipase domain-containing protein 2 OS=Homo sapiens GN=PNPLA2 PE=1 SV=1

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VSDGENVIISHFNSKDELIQANVCSGFIPVYCGLIPPSLQGVRYVDGGISDNLPLYELKN  
TITVSPFSGESDICQDSSTNIHELVRTNTSIQFNLRNLYRLSKALFPPEPLVREMCKQ  
GYRDGLRFLQRNGLNRPNPLALPPARPHGPEDKDQAVESAQAEDYSQLPGEDHILEHL  
PARLNEALLEACEPTDLLTTLNMLPVRLATAMVPYTLPLESALSFTIRLLEWLPDVP  
EDIRWMKEQTGSICQYLVMAKRRKLGRHLPSRLPEQVELRRVQSLPSVPLSCAAYREALP  
GWMRNLSLGDALAKWEECQRQLLLGLFCTNVAFPPEALMRAPADPAPAPADPASPQHQ  
LAGPAPLLSTPAPEARPVIGALGL

>sp|O14495|PLPP3\_HUMAN Phospholipid phosphatase 3 OS=Homo sapiens GN=PLPP3 PE=1 SV=1

MQNYKYDKAIVPESKNGGSPALNNPRRSGSKRVLLICDLFCLFMAGLPFLIETSTIK  
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PYVAALYKQVGCFLFGCAISQSFTDIKVSIGRLRPHFLSVCNPDFSQINCSEGYIQNYR  
CRGDDSKVQEARSKFFSGHASFSMYTMLYLVLQARFTWRGARLLRPLLQFTLIMMAFY  
TGLSRVSDHKHPSDVLGFAQGALVACCIVFFVSDLFKTKTTLSPAPAIRKEILSPVD  
IIDRNNHHNMM

>sp|Q9BX97|PLVAP\_HUMAN Plasmalemma vesicle-associated protein OS=Homo sapiens GN=PLVAP PE=2 SV=1

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QATERRAEGLYSQLLGLTASQSNLTKEINFTRAKDAIMQMWLNARRDLDRINASFRQCQ  
GDRVITYNNQRYMAAIIILSEKQCRDQFKDMNKSCDALLFMLNQVKVKTLEVEIAKEKTICT  
KDKESVLLNKRVAEEQLVECVKTRELQHQRQLAKEQLQKVQALCLPLDKDKFEMDLRNL  
WRDSIIPRSLDNLGYNLYHPLGSELASIRRACDHMPSLMSSKVEELARSLRADIERVARE  
NSDLQRQKLEAQGLRASQEAQKQVEKEAQAREAKLQAECSRQTQLALEEKAVLRKERDN  
LAKELEEKREAEQLRMELAIRNSALDTCIKTKSQPMMPVSRPMGPVNPQPIDPASLEE  
FKRKILESQRPPAGIPVAPSSG

>sp|Q9UIW2|PLXA1\_HUMAN Plexin-A1 OS=Homo sapiens GN=PLXNA1 PE=1 SV=3

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GEVYVGAVNRIYKLSGNLTLLRAHVTGPVEDNEKCYPPPSVQSCPHGLGSTDNVNKLKLL  
DYAANRLACGSASQGCQFLRLDDLFLGEPHHRKEHYLSSVQEAGSMAGVLIAGPPGQ  
GQAKLFGVGTIDGKSEYFPTLSSRRLMANEEDADMFGFVYQDEFVSSQLKIPSDTLSKFP  
AFDIYYVYSFRSEQFVYYLTLQLDQTLSQDAAGEHFFTSKIVRLCVDDPKFYSYVEFPI  
GCEQAGVEYRLVQDAYLSRPGRALAHQLGLAEDEDVLFVFAQQQKNRVKPPKESALCLF  
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IEGTPLFVDKDDGLTAVAAIDYRGRTVVFASTRSGRIRKILVDLSNPGGRPALAYESVVA  
QEGSPILRDLVLSPNHQYLYAMTEKQVTRVPVESCQYTSCELCGSRDPHCGWCVLHSI  
CSRRDACERADEPQRFADLLQCVQLTVQPRNVSVTMSQVPLVLQAWNVPDLSAGVNCSF  
EDFTESESVLEDGRIHCRSPSAREVAPITRGQGDQRVVKLYLKSKEGKKFASVDFVFYN  
CSVHQSCLSCVNGSFPCHWCKYRHVCTHNVADCAFLEGRVNVSEDCPQILPSTQIYVPVG  
VVKPITLAARNLPQPQSGQRGYECLFHIPGSPARVTALRFNSSLQCNSSYSYEGNDVS  
DLPVNLSSVVWNGNFVIDNPQNIQAHLKYCPALRESCGLCLKADPRFECCGWCVAERRCSLR  
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RVGKVLCSPESEYISAEQIVCEIGDASSVRAHDALVEVCVRDCSPHYRALSPKRFTFVT  
PTFYRVSPSRGPLSGGTWIGIEGSHLNAGSDVAVSVGGRPCSFWSRNSREIRCLTPPGQS  
PGSAPIIININRAQLTNPEVKYNYTEDPTILRIDPEWSINSGGTLLTVTGTNLATVREPR  
IRAKYGGIERENGCLVYNDTTMVCRAPSVANPVRSPPELGERPDELGFVMDNVRSLVLN  
STSFLYYPDPVLEPLSPTGLLELKPSSPLILKGRNLLPPAPGNSRLNYTVLIGSTPCTLT  
VSETQLLCEAPNLTGQHKVTVRAGGFEFSPGTLQVYSDSLLTLPATVIGGGGGGLLLLVI  
VAVLIAAYKRKSRDADRTLKRLQLQMDNLESVALECKEAFELQTDIHELTDLDGAGIP  
FLDYRTYAMRVLPFGIEDHPVLKEMEVQANVEKSLTLFGQLLTKKHFLTLFIRTLEAQRS  
FSMRDRGNVASLIMTALQGEMEYATGVLKQLSDLIEKNLESKNHPKLLLRRTESVAEKM  
LTNWFTFLLYKFLKECAGEPLFMYCAIKQKMEKGPIDAITGEARYSLSEDKLIRQQIDY  
KTLTLNCVNPENENAPEVPVKGLDCDVTQAKEKLLDAAYKGVYPYSQRPKAADMDEWRQ  
GRMARIILQDEDVTTKIDNDWKRLNTLAHYQVTDGSSVALVPKQTSAYNISNSSTFTKSL  
SRYESMLRTASSPDSLRSRTPMITPDLESGTKLWHLVKNHDHLDQREGDRGSKMVSEIYL  
TRLLATKGTQLKQFVDDLFTETIFSTAHRGSALPLAIKYMFDLDEQADKHQIHDADVHTW  
KSNCLPLRFWVNVIKNPQFVDIHKNSITDACLSVVAQTFMDSCSTSEHKLGKDSPSNKL  
LYAKDIPNYKSWVERYADIKMPAISDQMSAYLAEQSRLHLSQFNSMSALHEIYSYIT  
KYKDEILAALEKDEQARRQRLRSKLEQVVDTMALSS

>sp|O15305|PMM2\_HUMAN Phosphomannomutase 2 OS=Homo sapiens GN=PMM2 PE=1 SV=1

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VEKYDYVFPENGLVAYKDGLLCRQNIQSHLGEALIQDLINYCLSYIAKIKLPKKRGTFI  
EFRNGMLNSVPIGRSCSQEERIEFYELDKKENIRQKFVADLRKEFAGKGLTFSIGGQISF  
DVFPDGDWKRYCLRHVENDGYKTIYFFGDKTMPGGNDHEIFDPRMTMGYSVTAPEDTRRI  
CELLFS

>sp|P54278|PMS2\_HUMAN Mismatch repair endonuclease PMS2 OS=Homo sapiens GN=PMS2 PE=1 SV=2

MERAESSSTEPAKAIKPIDRKSVMHICSGQVVLSTAVKELVENS LDAGATNIDLKLD  
YGVDLIEVSDNGCGVEENFEGLTLKHHTSKIQEFADLTQVETFGFRGEALSSLCALSDV  
TISTCHASAKVGTRLMFHDNGKIIQKTPYPRPRGTTVSVQQLFSTLPVRHKEFQRNIKKE  
YAKMVQVLHAYCIIISAGIRVSCTNQLGQGRQPVVCTGGSPSIKENIGSVFGQKQLQSLI  
PFVQLPPSDSVCEEYGLSCSDALHNLFIYISGFISQCTHGVGRSSTDQRFFFINRRPCDPA  
KVCRLVNEVYHMYNRHQYPFVVLNISVDSECVDINVTDPKRQILLQEEKLLAVLKTSLI  
GMFSDSVNKLNSVQQPLLDVEGNLIKMAADLEKPMVEKQDQSPSLRTGEEKKDVSI  
REAFSLRHTTENKPHSPKTPPERRSPLGQKRGMLSSSTSGAISDKGVLRPQKEAVSSSHG  
PSDPTDRAEVEKDSGHGSTVDSEGFSPDGTGSHCSSEYAASSPGDRGSQEHVDSQEKAP  
KTDDSFSDVDCHSNQEDTGCKFRVLPQPTNLATPNTKRFKKEEILSSSDICQKLVTQDM  
SASQVDVAVKINKKVPLDFSMSSLAKRIQLHHEAQQSEGEQNYRKFRAKICPGENQAA  
EDELKEISKTMFAEMEIIQGFLNLFITKLNEDIFIVDQHATDEKYNFEMLQQHTVLQG  
QRLIAPQTLNLTAVNEAVLIENLEIFRKNFGDFVIDENAPVTERAKLISLPTSKNWTFGP  
QDVDELIFMLSDSPGVMCRPSRVKQMFASRACRKSVMIGTALNTSEMKKLITHMGEMDHP  
WNCPHGRPTMRHIANLGVISQN

>sp|Q96T60|PNKP\_HUMAN Bifunctional polynucleotide phosphatase/kinase OS=Homo sapiens  
GN=PNKP PE=1 SV=1

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TVAVKQLGVNPSTTGTQELKPGLEGLGVGDTLVLNGLHPLTLRWEETRTPESQPDTPP  
GTPLVSQDEKRDAELPKKMRKSNPGWENLEKLLVFTAAGVKPQGVAGFDLDGTLITTR

SGKVFP TGP SDWRILYPEIPRKLRELEAEGYKLVI FTNQMSIGRGKLP AEEFKAKVEAVV  
EKLGV P FQVLVATHAGLYRKPVTGMWDHLQE QANDGTPISIGDSIFVGDAAGR PANWAPG  
RKKKDFSCADRLFALNLGLPFATPEEFFLKWPAAGFELPAFDPRTVSRSGPLCLPESRAL  
LSASPEVVAVGFPGAGKSTFLKKHLVSAGYVHVNRDTLGSWQRCVTT CETALKQGKRVA  
IDNTNPDAAS RARYVQCARAAGVPCRCFLTATLEQARHNNRFREMTDSSHIPVSDMVMY  
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>sp|Q9ULN7|PNML2\_HUMAN PNMA-like protein 2 OS=Homo sapiens GN=PNMAL2 PE=2 SV=3

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KAQAALVEFVEDVNHA AIPREIPGKDG VWRVLWKDRAQDTRVLRQMRRLLLDDGPTQAAE  
AGTPGEAPTPASETQAQDSGEVTGQAGSLLGAARNPRRGRRGRNRTRRNRLTQKGKKR  
SRGGRPSAPARSEADSSDES LGIVIEEIDQGDLSGEEDQSALYATLQAAAARELVRQWAP  
CNSEGGPCPTCPWEGIGGFGCDLTVQTRLSQSYVRDTQM

>sp|Q9P215|POGK\_HUMAN Pogo transposable element with KRAB domain OS=Homo sapiens GN=POGK  
PE=1 SV=2

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WEVLTEQQKALYREVMRMNYETVLSLEFPFPKPDMITRLEGEESQNSDEWQLQGGTSAE  
NEESDVKPPDWP NPMNATSQFPQPQHFD SFGRLRPDITELPEWSEGYPFYAMGFPGYD  
LSADDIAGKFQFSRGMRRSYDAGFKLMVVEYAESTNNCQAAKQFGVLEKNVRDWRKV K PQ  
LQNAHAMRRAFRGPKNGRFALVDQRVAEYVRYMQAKGDPITREAMQLKALEIAQEMNIPE  
KGFKASLGWCRMMRRYDL SLRHKVPVPQHLPEDLTEKLVTYQRSVLALRRADHYEVAQM  
GNADETPICLEVPSRVTVDNQGEKPVLVKTPGREKLKITAMLGV LADGRKLPPYIILRGT  
YIPPGKFPSGMEIRCHRYGWMTE DLMQDWLEV VWRRTGAVPKQRGMLILNGFRGHATDS  
VKNSMESMNTDMVIIPGGLTSQLQVLDVVVYKPLNDSVRAQYSNWLLAGNLALSPTGNAK  
KPPLGLFLEWVMVAWNSISSESIVQGFKKCHISSNLEEEDDVLWEIESELPGGGEPPKDC  
DTESMAESN

>sp|P63133|POK8\_HUMAN Endogenous retrovirus group K member 8 Pol protein OS=Homo sapiens  
GN=ERVK-8 PE=3 SV=1

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HIEPSFSPWNSPVFVIQKKS GKWRLTDLRAVNAV IQPMGPLQGPLSPAMIPKDWPLII  
IDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRAL  
QPVRKKFSDCYIIHYID DILCAAETKDKLIDCYTFLQAEVASAGLAIASDKIQTSTPFHY  
LGMQIENRKIKPKQKIEIRKDTLKT LND FQKLLGDINWIQPTLGIPTYAMSNLFSILRGDS  
DLNSKRILTPEATKEIKLVEEKIQAQINRIDPLAPLQLLIFATAHSPTGII IQNTDLVE  
WSFLPHSTVKTFTLYLDQIATLIGQTRLRI IKLCGNPDKIVVPLTKEQVRQAFINSGAW  
QIGLANFVGIIDNHYPKTKIFQFLKLT TWILPKITRREPLENALT VFTDGSSNGKAA YTG  
PKERVIKTPYQSAQRAELVAVITVLQDFDQPINIISDSAYVVQATRVVETALIKYSMD DQ  
LNQLFNLLQQTVRKRNF PFYITHIRAHTNLPGPLTKANEQADLLVSSALIKAQELHALTH  
VNAAGLKNKFDVTWKQAKDIVQHCTQCQVLHLP TQEAGVNPRGLCPNALWQMDVTHVPSF  
GRLSYVHVTVD TYSHFIWATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAF  
QKFLSQWKISHTTGIPYNSQGQAIVERTNR TLKTQLVKQKEGDSKECTTPQMQLNLALY  
TLNFLNIYRNQTTTSAEQHLTGKKNSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSP  
GENQLPVWI PTRHLKFYNEPIRDAKKSTS AETETPQSSTVDSQDEQNGDVRRTDEVAIHQ  
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>sp|O60486|PLXC1\_HUMAN Plexin-C1 OS=Homo sapiens GN=PLXNC1 PE=1 SV=1

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SGSCLDQLDYSLEHSLSRLYRDQAGNCTEPVSLAPPARPRPGSSFSKLLLPYREGAAGLG  
GLLLTGWTFDRGACEVRPLGNLSRNSLRNGTEVVSHCPQGSGTAGVVYRAGRNNRWYLAVA  
ATYVLPPEPETASRCNPAASDHDTAIALKDTEGRSLATQELGRLKLCGAGSLHFVDAFLW  
NGSIYFPYYPYNYTSGAATGWPSMARIAQSTEVLFGGQASLDCGHGHPDGRLLLLSSSLV  
EALDVWAGVFSAAAGEGQERRSPTTTALCLFRMSEIQARAKRVSWDFKTAESHCKEGDQP  
ERVQPIASSTLIHSDLTSVYGTVMNRTVFLGTGDGQLLKVILGENLTSNCPEVIYEIK  
EETPVFYKLVDPVKNIYIYLTAGKEVRRIRVANCNKHKSCSECLTATDPHCGWCHSLQR  
CTFGQDCVHSENLENWLDISSGAKKCPKIQIIRSSKEKTTVTMVGSFSPRHSKCMVKNVD  
SSRELCCQKSQPNRTCTCSIPTRATYKDVSVVNMFSFGSWNLSDRFNFTNCSSLKECPA  
CVETGCAWCKSARRC IHPFTACDPDSEYERNQEQCPVAVEKTSGGGRPKENKGNRTNQALQ  
VFYIKSIEPQKVSTLGKSNVITGANFTRASNITMILKGTSTCDKDIQVSHVLNDTHMK  
FSLPSSRKEMKDVCIQFDGGNCSSVGSLSYIALPHCSLIFPATTWISGGQNITMMGRNFD  
VIDNLIISHELKGNINVSEYCVATYCGFLAPSLKSSKVRTNVTVKLRVQDYLDCGTLYQY  
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AAVGVRHKSKELSRKSSQQLLELESELKEIRDGFAELQMDKLDVDSFGTVPFLDYKH  
FALRTFFPESGGFTHIFTEDMHNDRDANDKNESLTALDALICNKSFLVTVIHTLEKQKNFS  
VKDRCLFASFLTIALQTKLVYLTSTILEVLTRDLMEQCSNMQPKMLRRTESVVEKLLTNW  
MSVCLSGFLRETVEGPFYLLVTTLNQKINKGPVDVITCKALYTLNEDWLLWQVPEFSTVA  
LNVVFEKIPENESADVCRNISVNVLDCDTIGQAKEKIFQAFLSKNGSPYGLQLNEIGLEL  
QMGTRQKELLDIDSSSVILEDGITKLNITIGHYEISNGSTIKVFKKIANFTSDVEYSDDHC  
HLILPDSEAFQDVQGRHRGKHFKVKEMYLTLLSTKVAIHSVLEKLFRSIWSLPNSRA  
PFAIKYFFDFLDAQAENKKITDPDVVHIWKTNSLPLRFWNILKNPQFVFDIKKTPHIDG  
CLSVIAQAFMDAFSLTEQQLGKEAPTNNLLYAKDIPTYKEEVKSYYKAIRDLPPLSSSEM  
EEFLTQESKKHENEFNEEVALTEIYKYIVKYFDEILNKLERERGLEEAQKQLLHVKVLFD  
EKKKCKWM

>sp|A4D2B8|PM2P1\_HUMAN Putative postmeiotic segregation increased 2-like protein 1  
OS=Homo sapiens GN=PMS2P1 PE=5 SV=1

MVTMCGGHRPENFLHQVLTEFGEELAGEGKSEVGGAPRSYLQVASAECWAAAPAVHVGE  
PVHAGGLHTERGADPVIQGLYLVRHGGACQTPTVGNRQTPTLGIHARPRRRATTSLTLLL  
AFGKNAVRICALIGPSLTSRTRPLTEPLGEKERREVFPPRPERVEHNVESRWEPRRRG  
ACGSRGGNFSPRGGSGVASLERAESSSTEPAKAIKPIDRKSVHQICSGPVVPSLSTAVK  
ELVENSLDAGATNIDLKLDYGVDLIEVSGNGCGVEEENFEGLTLKHHTSKIQEFADLPQ  
VETFGFRGEALSSLCALSDVTISTCHVSAKVGTRLVFDHYGKIIQKTPYPHPRGMTVSVK  
QLFSTLPVHHKEFQRNIKKKRACFPFAFCRDCQFPEASPAMLPVQPAELTPRSTPPHPCS  
LEDNVITVFSSVKNPGSSR

>sp|A8MQ11|PM2P5\_HUMAN Postmeiotic segregation increased 2-like protein 5 OS=Homo sapiens  
GN=PMS2P5 PE=5 SV=2

MWGRRLRLRLNDVTISTCHVSAKVGTRLVFDHDKIIQKTPYPHPRGTTVSVKQLFSTL  
PVRHKEFQRNIKKKRACFPFAFCRDCQFLEGSPAMLPVQPAKLTPRSTPPHPCSLEDNVI  
TVFSSVKNPGSSR

>sp|P29590|PML\_HUMAN Protein PML OS=Homo sapiens GN=PML PE=1 SV=3  
MEPAPARSPRPQDPAEPQEPMPPEPSEGRQPSPPSPPTERAPASEEEFQFLRCQQC

QAEAKCPKLLPCLHTLCSGCLEASGMQCPICQAPWPLGADTPALDNVFFESLQRRLSVYR  
QIVDAQAVCTRCKESADFWCFECEQLLCAKCFEAHQWFLKHEARPLAELRNQSVREFLDG  
TRKTNIFCSNPNHRTPTLTSIYCRGCSKPLCCSCALLDSSHSELKCDISAEIQQRQEEL  
DAMTQALQEQDSAFGAVHAQMHAAGVQLGRARAETEELIRERVRQVVAHVRAQERELLEA  
VDARYQRDYEEMASRLGRLDAVLQRI RTGSALVQRMKCYASDQEVLDMHGFLRQALCRLR  
QEEPQSLQAAVRTDGFDEFKVRQLDLSSCITQGKDAAVSKKASPEAASTPRDPIDVDLPE  
EAERVKAQVQALGLAEAQPMVVQSVPGAHPVPVYAFS IKGPSYGEDVSNTTTAQKRKCS  
QTQCPRKVIKMESEEGKEARLARSSPEQPRPSTSKAVSPPHLDGPPSPRSPVIGSEVFLP  
NSNHVASGAGEAEERVVVISSSESDAENSSSRELDSSSESSDLQLEGPSTLRVLDENL  
ADPQAEDRPLVFFDLKIDNETQKISQLAAVNRESKFRVVIQPEAFFSIYSKAVSLEVGLQ  
HFLSFLSSMRPILACYKLWGPGLPNFFRALEDINRLWEFQEATSGFLAALPLIRERVPG  
ASSFKLNLAQTYLARNMSERSAMAAVLAMRDLCLLLEVSPGPQLAQHVYPFSSSLQCFAS  
LQPLVQAAVLPRAEARLLALHNVSFMELLSAHRDRQGGGLKKYSRYLSLQTTTLPQAQPA  
FNLQALGTYFEGLLEGPALARAEGVSTPLAGRGLAERASQQS

>sp|Q15126|PMVK\_HUMAN Phosphomevalonate kinase OS=Homo sapiens GN=PMVK PE=1 SV=3

MAPLGGAPRLVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRLSGPLKEQYAEHGLNFQ  
RLLDSTYKEAFRKDMIRWGEEKRQADPGFFCRKIVEGISQPIWLVSDDRVRSDIQWFRE  
AYGAVTQTVRVVALEQSRQQRGWVFTPGVDDAESECGLDNFGDFDWIENHGVEQRLEEQ  
LENLIEFIRSRL

>sp|P22103|PNEU\_HUMAN Pneumadin OS=Homo sapiens PE=1 SV=1

AGEPKLDAGV

>sp|Q8TF01|PNISR\_HUMAN Arginine/serine-rich protein PNISR OS=Homo sapiens GN=PNISR PE=1  
SV=2

MWDQGGQPWQQWPLNQQQWMQSFQHQDPSQIDWAALAAQAWIAQREASGQQSMVEQPPGM  
MPNGQDMSTMESGPNNHGNFQGDSNFMWQPEWGMHQQPPHPPDPWMPPTPGPMDIV  
PPSEDSNSQDSGEFAPDNRHIFNQNNHNFGGPPDNFAVGPNVQFDYQHGAAFGPPQGGFH  
PPYWPQPGPPGPPAPPQNRREPPSSFRDRQRSPIALPVKQEPPIIDAVKRRTLPWIREGL  
EKMEREKQKKLEKERMEQQRSQLSKKEKKATEDAEGGDGPRLPQRSKFDSDEEEEDTENV  
EAASSGKVTRSPSPVPQEEHSDPEMTEEEKEYQMMLLTkMLLTeILLDVTDEEIIYVAKD  
AHRKATKAPAKQLAQSSALASLTGLGGLGGYSGDSEDRSDRGSESSDTDEELRHRIR  
QKQEAQFWRKEKEQQLLHDKQMEEEKQQTERTVKEMNEFIHKEQNSLSLEAREADGDVVN  
EKKRTPNETTSVLEPKKEHKEKEKQGRSRSGSSSSGSSSSNSRTSSTSSTVSSSSYSSSS  
GSSRTSSRSSSPKRKKRHSRSRSPTIKARRSRRSYSRRIKIESNRARVKIRDRRRSNRN  
SIERERRRRNRSPSRERRRRSRSRDRRTNRASRSRDRRKIDDQRGNLSGNSHKHKG  
KEQERKKERSRIDKDRKKDKEREREQDKRKEKQKREEKDFKFSSQDDRLKRRKRESERT  
FSRSGSISVKIIRHDSRQDSKKSTTKDSKKHSGSDSSGRSSSESPGSSKEKKAKKPKHSR  
SRSVEKSQRSGKKASRKHKSRSR

>sp|POCW24|PNM6A\_HUMAN Paraneoplastic antigen-like protein 6A OS=Homo sapiens GN=PNMA6A  
PE=1 SV=2

MAVTMLQDWCRWMGVNARRGLLILGIPEDCDDAEFQESLEAALRPMGHFTVLGKAFREED  
NATAALVELDREVNIALVPREIPGTGGPWNVVFVPRCSGEEFLGLGRVHFHPEQEGQMVE  
SVAGALGVGLRRVCWLRSIGQAVQPWVEAVRCQSLGVFSGRDQPAPGEESFEVWLDHTE  
MLHVWQGVSERERRRRLLLEGLRGTAQLVHALLAENPARTAQDCLAALAQVFGDNESQAT  
IRVKCLTAQQQSGERLSAFVLRLEVLLQKAMEKEALARASADRVRLRQMLTRAHLTEPLD



EALRKLRMAGRSPSFLEMLGLVRESEAWASLARSVRAQTQEGAGARAGAAVARASTKV  
EAVPGGPGREPEGLLQAGGQEAEEELLQEGLKPVLEECDN

>sp|Q8TCS8|PNPT1\_HUMAN Polyribonucleotide nucleotidyltransferase 1, mitochondrial OS=Homo sapiens GN=PNPT1 PE=1 SV=2

MAACRYCCSCLRLRPLSDGPFLLPRRDRALTQLQVRALWSSAGSRAVAVDLGNRKLEISS  
GKLARFADGSAAVQSGDTAVMVTAVSKTKPSQFMPLVVDYRQKAAAAGRIPTNYLRRE  
IGTSDKEILTSRIIDRSIRPLFPAGYFYDTQVLCNLLAVDGVNEPDVLAINGASVALSLS  
DIPWNGPVGAVRIGIIDGEYVNPTRKEMSSSTLNLVAGAPKSQIVMLEASAENILQQD  
FCHAIKVGVKYQQIIQGIQQLVKETGVTKRTPQKLFTPSPEIVKYTHKLAMERLYAVFT  
DYEHDKVSRDEAVNKIRLDTTEEQLKEKFPEADPYEIIESFNVVAKEVFRSIVLNEYKRCD  
GRDLTSLRNVSCVEDMFKTLHGSALEFQRGQTQVLCVTFDSLESGIKSDQVITAINGIKD  
KNFMLHYEFPPYATNEIGKVTGLNRRELGHGALAEKALYPVIPRDFPFTIRVTSEVLESN  
GSSSMASACGGSALMDSGVPISSAVAGVAIGLVTKTDPEKGEIEDYRLLTDILGIEDYN  
GDMDFKIAGTNKGITALQADIKLPGIPIKIVMEAIQQASVAKKEILQIMNKTISKPRASR  
KENGPPVETVQVPLSKRAKFGVPGGYNLKKLQAETGVTISQVDEETFSVFAPTPSAMHEA  
RDFITEICKDDQEQQLFEGAVYTATITEIRDTGVMVKLYPNMTAVLLHNTQLDQRKIKHP  
TALGLEVGQEIQVKYFGRDPADGRMRLSRKVLQSPATTVVRTLNDRSSIVMGEPISQSSS  
NSQ

>sp|P63132|P0113\_HUMAN Endogenous retrovirus group K member 113 Pol protein OS=Homo sapiens GN=HERVK\_113 PE=3 SV=1

NKSRKRRNRVSFLGAATVEPPKPIPLTWKTEKPVWVNQWPLPKQKLEALHLLANEQLEKG  
HIEPSFSPWNSPVFVIQKKSQKWRMLTDLRAVNAVIQPMGPLQGPLSPAMIPKDWPLII  
IDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRAL  
QPVRDKFSDCYIIHYIDDLCAAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHY  
LGMQIENRKIKPKQKIEIRKDTLKTLDNFQKLLGDINWIRPTLGIPTYVMSNLSILRGDS  
DLNSKRMLTPETTKEIKLVEEKIQSAQINRIDPLAPLRLIFATAHSPIGIIIQNTDLVE  
WSFLPHSTVKTFTLYLDQIATLIGQTRLRIIKLCGNPDKIVVPLTKEQVRQAFINSGAW  
QIGLANFVGIIDNHYPKTKIFQFLKLTWILPKITRREPLENALTFTFDGSSNGKAAAYTG  
LKERVIKTPYQSAQRAELVAVITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQ  
LNQLFNLLQQTVRKRNFPHYITHIRAHTNLPGLTKANEQADLLVSSALIKAEHALTH  
VNAAGLKNKFDVTWKQAKDIVQHCTQCQVLHLPTQEAGVNPRGLCPNALWQMDVTHVPSF  
GRLSYVHVTVDYSHFIWATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAF  
QKFLSQWKISHTTGIPYNSQGQAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLAPY  
TLNFLNIYRNQTTTSAEQHLTGGKNSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSP  
GENQLPVWMPTRHLKFYNEPIGDAKKSTSAETETPQSSTVDSQDEQNGDVRRTDEVAIHQ  
EGRAADLGTTEADAVSYKISREHKGDTNPREYAACSLDDCINGGKSPYACRSSCS

>sp|PO9086|PO2F2\_HUMAN POU domain, class 2, transcription factor 2 OS=Homo sapiens GN=POU2F2 PE=1 SV=3

MVHSSMGAPEIRMSKPLEAEKQGLDSPSEHTDTERNPDTNHQNPQNKTSPFSVSPTGPS  
TKIKAEDPSGDSAPAAPLPQPAQPHLPQAQMLTGSQLAGDIQQLQLQQLVLVPGHHL  
QPPAQFLLPQAQQSQPGLLPTPNLFQLPQQTQGALLTSQPRAGLPTQAVTRPTLPDPHLS  
HPQPPKCLEPPSHPEEPSDLEELEQFARTFKQRRIKLGFTQGQDVGLAMGKLYGNDFSQTT  
ISRFEALNLSFKNMCKLKPLLEKWLDAETMSVDSSLSPNQLSSPSLGFGLPGRRRKK  
RTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFCNRRQKEKRINPCSA

APMLPSPGKPASYSPhMVTpQGGAGTLPLSQASSSLSTTVTLSSAVGTLHPSRTAGGGG  
GGGGAAPPLNSIPSVTPPPATTNSTNPSpQGSHSAIGLSGLNPSTGPGLWWNPAPYQP  
>sp|P20265|P03F2\_HUMAN POU domain, class 3, transcription factor 2 OS=Homo sapiens  
GN=POU3F2 PE=1 SV=4

MATAASNHYSLLTSSASIVHAEPpGGMqQGAGGYREAQSLVQGDYGALQSNghPLSHAHQ  
WITALSHGGGGGGGGGGGGGGGGGGGGDGSPWSTSPLGQpDIKPSVVVQqGGRGDELHG  
PGALQqQHqQqQqQqQqQqQqQqQqQqRPPHLVHHAANHHpGPGAWRSAAAAAHLPPS  
MGASNGGLLYSQPSFTVNGMLGAGGQpAGLHHHGLRDAHDEPHHADHHpHPHSHpHQPP  
PPPPpQGPpGHPGAHHDpHSDEdTPTSDDLQFAKQFKRRIKLGFTQADVGLALGTLYG  
NVFSQTTICrFEALQLSfKNMCKLKpLLNKWLEeADSSSGSPTSIDKIAAQGRKRKKRTS  
IEVSVKGALeSHFLKCPKPSAQEI tSLADSLQLeKEVVRVWFCNRRQKEKRMTpPGGTLP  
GAEDVYGGSRDTPPHHGvQTPVQ

>sp|Q12837|P04F2\_HUMAN POU domain, class 4, transcription factor 2 OS=Homo sapiens  
GN=POU4F2 PE=1 SV=2

MMMSLNSKQAFSMPHGSLHVEPKYSALHSTSPGSSAPIAPSASSpSSSSNAGGGGGGG  
GGGGGGGRRSSSSSSSGSSGGGGSEAMRRACLPpPSNIFGGLDESLARAEALAAVDIV  
SQSKSHHHHPHhSPFKPDATYHTMNTIPCTSAASSSSVPISHpSALAGTHHHHHHHHHH  
HHQPHQALEGELLEHLSPGLALGAMAGPDGAVVSTPAHAPHMATMNPmHQAALSMAHAHG  
LPShMGMSDvdADPRDLEAFaERFKRRIKLGVTQADVGSALANLKIPGVGSLSQSTIC  
RFESLTLShNMIALKpILQAWLEEAekSHREKLTkPELFNGAEKKRKRtSIAAPEKRSL  
EAYFAIQPRPSSEKIAAIAEKLDLKKNVVRVWFCNQRQKQKRMKYSAGI

>sp|Q8NA72|POC5\_HUMAN Centrosomal protein POC5 OS=Homo sapiens GN=POC5 PE=1 SV=2

MSSDEEKYSLPVVQNDSSRGSSVSSNLQEEYEELLHYAIVTPNIEPCASQSSHPKGELVP  
DVRISTIHDLHSQGNSEVRETAIEVGKGCDfHISshSKTDESSpVLSPRKPSHPVMDf  
FSSHLADSSSPATNSSHTDAHEILVSDFLVSDENLQKMENVLDLWSSGLKTNIISeLSK  
WRLNFIDWHRMEMRKEKEKHAAHLKQLCNQINELKELQKTfEISIGRKDEVISSLSHAIG  
KQKEKIELMRTFFHWRIGHVRARQDVYEGKLADQYYQRTLLKKVWKVWRSVvQKQWKDVV  
ERACQARAEeVCiQISNDYEAkvAMLSGALENAKAEIQRMQHEKEHFEDSMKKAFMRGVC  
ALNLEAMTIFQNRNDAGIDSTNNKKEEYGPVGQKEHSAHLDPsAPPmPLPVTsPLLPSP  
PAAVGGASATAVPSAASMTSTRAASASSVhVPVSALGAGSAATAASEEMyVPRVvTSAQQ  
KAGRTITARITGRCDfASKNRISSSLAIMGVSPPMSSVVEKHHPVTvQTIPQATAAKYP  
RTIHPESSTSASrSLGTRSaHTQSLTSVHSIKVVD

>sp|Q7Z3K3|POGZ\_HUMAN Pogo transposable element with ZNF domain OS=Homo sapiens GN=POGZ  
PE=1 SV=2

MADTDLFMECEEELEPWqKISDVIEDSVVEDYNSVDKTTTVSVSQPVsAPVPIAAHAS  
VAGHLSTSTTVSSGAQNSDSTKKTLVTLIANNAGNPLVQGGQPLILTQNPAPGLGTM  
VTQPVLRPVQVMQNaNHVTSSPVASQPIFITtQGFPVRNVRPVQNAMNQVGIVLNVQGGQ  
TVRPITLVPAGTQfVKPTVGVPQVFSQMTpVRPGSTMPVRPTTNTFTTVIPATLTIRST  
VPQSQSQQTKSTPSTSTTPTATQPTSLGQLAVQSPGQSNQTTNPKLAPSFpSPPAVSIA  
FVTVKRPGVTGENSNeAKLVNTLNTIPSLGQSPGPVVVSNSSAHGSQRtSGPESSMKV  
TSSIPVFDLQDGRKICPRCNAQFRVTEALRGHMCYCCPEMVEYQKKGKSLDSEPSVPSA  
AKPPSPEKTAPVASTPSSTIPALSPPTKVPEPNENVGDAVQTKLIMLVDDFYyGRDGGK  
VAQLTNfPKVATSFRCpHCTKRLKNNIRFMNHMKHHVELDQQNGEVDGHTICQHcyRQFS  
TPFQLQCHLeNVHSPYESTTKCKICEWAFesePLFLQHMKDTHKPGEMPYVCQVCQYRSS

LYSEVDVHFRMIHEDTRHLLCPYCLKVFKNQNAFQQHYMRHQKRNHYHCNKCRLQFLFAK  
DKIEHKLQHHKTRFKPKQLEGLKPGTKVTIRASRGQPRTVPVSSNDTPPSALQEAAPLTS  
SMDPLPVFLYPPVQRSIQKRAVRKMSVMGRQTCLECSFEIPDFPNHFPTYVHCSLCRYST  
CCSRAYANHMNNHVPRKSPKYLALFKNSVSGIKLACTSCTFVTSVGDAMAKHLVFNPSH  
RSSSILPRGLTWIAHSRHGQTRDRVHDRVKNMYPSPFPTNKAATVKSAGATPAEPEEL  
LTPLAPALPSPASTATPPPTPTHQALALPPLATEGAECNVDQDEGSPVTQEPELASG  
GGGSGGVGKKEQLSVKLRVLFALCCNTEQAAEHFRNPQRRIRRWLRRFQASQGENLEG  
KYSFEAEKLAEWVLTQREQLPVNEETLFQKATKIGRSLEGGFKISYEWAVRFMLRHH  
LTPHARRAVAHTLPKDVAENAGLFDVQQRQIHNQDLPLSMIVAIDEISLFLDTEVLSSD  
DRKENALQTVGTGEPWCDVVLAILADGTVLPTLVFYRGQMDQPANMPDSILLEAKESGYS  
DDEIMELWSTRVWQHTACQRSKGMVMDCHRTHLSEEVLAMLSASSTLPAVVPAGCSSK  
IQPLDVCIKRTVKNFLHKKWKEQAREMADTACDSVLLQLVLVWLGEVLGVIGDCPELVQ  
RSFLVASVLPGPDGNINSPTRNADMQEELIASLEEQLKLSGEHSESSTPRRSSPEETIE  
PESLHQLFEGESETESFYGFEEADLDLMEI

>sp|Q9UBT6|POLK\_HUMAN DNA polymerase kappa OS=Homo sapiens GN=POLK PE=1 SV=1

MDSTKEKCDSYKDDLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRYGNEKKEKQV  
NQRIENMMQKKAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMAFYAAVEMRDN  
PELKDPIAVGSMSMLSTSNYHARRFGVRAAMPGFIAKRLCPQLIIVPPNFDKYRAVSKE  
VKEILADYDPNFMAMSLDEAYLNITKHLEERQNPEDKRRYFIKMGSSVENDNPGKEVVK  
LSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQILQNSVVFGTSAQEVVKEIRFR  
IEQKTTLTASAGIAPNTMLAKVCSKNKPNGQYQILPNRQAVMDFIKDLPIRKVSIGKV  
TEKMLKALGIITCTELYQQRALLSLLFSETSWHYFLHISLGLGSTHLTRDGERKSMVER  
TFSEINKAAEQSYSLCQELCSELAQDLQKERLKGRTVTIKLKNVNFVKTRASTVSSVST  
AEEIFAIKELLKTEIDADFPHPRLRLMGVRISSFPNEEDRKHQQRSIIIGFLQAGNQAL  
SATECTLEKTDKDKFVKPLEMSHKKSFFDKKRSEKWSHQDTFKCEAVNKQSFQTSQPFQ  
VLKKMNENLEISENSDDCQILTCPVCFRAQGCISLEALNKHVDECLDGPISISENFKMFS  
CSHVSATKVNKKENVPASSLCEKQDYEAHPKIKEISSVDCIALVDTIDNSSKAESIDALS  
NKHKSKECSSLPSKSFNIEHCHQNSSSTVSLNEDVGSFRQEYRQPYLCEVKTGQALVCP  
VCNVEQKTSDDLTFNVHVDVCLNKSFIQELRKDKFNPVNQPKESSRSTGSSSGVQKAVTR  
TKRPGMLTKYSTSKKIKPNNPKHTLDIFFK

>sp|P27169|PON1\_HUMAN Serum paraoxonase/arylesterase 1 OS=Homo sapiens GN=PON1 PE=1 SV=3

MAKLIALTLGLMGLALFRNHQSSYQTRLNALREVQPVELPNCNLVKGIETGSEDLEILPN  
GLAFISSGLKYPGKISFNPNSPGKILLMDLNEEDPTVLELGITGSKFDVSSFNPHGISTF  
TDEDNAMYLLVNVHPDAKSTVELFKFQEEKSLHLKTIRHKLLPNLDIVAVGPEHFYG  
TNDHYFLDPYLQSWEMYGLAWSYVVYSPSEVRVVAEGFDFANGINISPDGKYVYIAEL  
LAHKIHVYEKHANWTLTPLKSDFNTLVDNISVDPETGDLWVGCHPNGMKIFFYDSENPP  
ASEVLRIQNILTEEPKVTQVYAENGTVLQGSTVASVYKGKLLIGTVFHKALYCEL

>sp|Q8NE79|POPD1\_HUMAN Blood vessel epicardial substance OS=Homo sapiens GN=BVES PE=1  
SV=1

MNYTESSPLRESTAIGFTPELESIIIPVPSNKTTCENWREIHHLVFHVANICFAVGLVIPT  
TLHLHMIFLRGMLTLGCTLYIVWATLYRCALDIMIWNVFLGVNHLHLSYLLYKKRPVKI  
EKELSGMYRRLFEPRLVPPDLFRRLTGQFCMIQTLKKGQTYAAEDKTSVDDRLSILLK GK  
MKVSYRGHFLHNIYPCAFIDSPEFRSTQMHKGEKFQVTIIADDNCRFLCWSRERLTYFLE  
SEPFLYEIFRYLIGKDITNKLYSLNDPTLNDKKAKKLEHQLSLCTQISMLEMRNSIASSS

DSDDGLHQFLRGTSMSLHVSSPHQRASAKMKPIEEGAEDDDVFEPA SPNTLKVHQLP

>sp|Q03181|PPARD\_HUMAN Peroxisome proliferator-activated receptor delta OS=Homo sapiens  
GN=PPARD PE=1 SV=1

MEQPQEEAPEVREEEEKEEVAEAEGAPELNGGPQHLPSSSYTDLSSSSPPSLDQLQM  
GCDGASCSLNMCECRVCGDKASGFHYGVHACEGCKGFFRRTIRMKLEYEKCERSCKIQKK  
NRNKCQYCRFQKCLALGMSHNAIRFGRMPEAEKRKL VAGLTANEGSQYNPQVADLKAFSK  
HIYNAYLKNFNMTKKKARSILTGKASHTAPFVIHDIETLWQAEKGLVWKQLVNGLPYPYKE  
ISVHVFYRCQCTTVETVRELTEFAKSIPSFSSLFLNDQVTLLKYGVHEAIFAMLASIVNK  
DGLLVANGSGFVTREFLRSLRKPFSDIIEPKFEFAVKFNALELDDSDLALFIAAIILCGD  
RPGLMNVPRVEAIQDTILRALEFHLQANHPDAQYLFPKLLQKMADLRQLVTEHAQMMQRI  
KKTETETSLHPLLQEIYKDMY

>sp|P37231|PPARG\_HUMAN Peroxisome proliferator-activated receptor gamma OS=Homo sapiens  
GN=PPARG PE=1 SV=3

MGETLGDSPIDPESDSFTDTLSANISQEMTMVDTEMPFWPTNFGISSVDLSVMEDHSHSF  
DIKPFTTVDSSISTPHYEDIPFTRTDPVVADYKYDLKLQEYQSAIKVEPASPPYYSEKT  
QLYNKPHEEPSNSLMAIECRVCGDKASGFHYGVHACEGCKGFFRRTIRLKL IYDRCDLNC  
RIHKRSRNKCQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLR  
ALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQE  
QSKEVAIRIFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVHEIIYTMLAS  
LMNKDGVLISEGQGFMTREFLKSRLKPFGDFMEPKFEFAVKFNALELDDSDLAIFIAVII  
LSGDRPGLLNVPKIEDIQDNLLQALELQLKLNHPESQLFAKLLQKMTDLRQIVTEHVQL  
LQVIKKTETDMSLHPLLQEIYKDLY

>sp|P10696|PPBN\_HUMAN Alkaline phosphatase, placental-like OS=Homo sapiens GN=ALPPL2 PE=2  
SV=4

MQGPWVLLLLGLRLQLSLGIIIPVEENPDFWNRQAAEALGAAKKLQPAQTAAKNLIIFLG  
DGMGVSTVTAARILKGQKKDKLGPETFLAMDRFPYVALSKTYSVDKHPD SGATATAYLC  
GVKGNFQTI GLSAAARFNQCNTRGNEVISVMNRAKKAGKSVGVVTTTRVQHASPAGAYA  
HTVNRNWYSADVPASARQEGCQDIATQLISNMDIDVILGGGRKYMFPMGTPDPEYPDDY  
SQGGTRLDGKNLVQEWLAKHQGARYVWNRTPELLQASLDPSVTHLMGLFEPGDMKYEIHRD  
STLDPSLMEMTEAALLLSRNPRGFFLFVEGGRIDHGHHSRAYRALTETIMFDDAIERA  
GQLTSEEDTSLSLVTADHSHVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNGPGYVL  
KDGARPDVTESESGSPEYRQQSAVPLDGETHAGEDVAVFARGPQAHLVHGVQEQT FIAHV  
MAFAACLEPYTACDLAPRAGTTDAAHPGPSVVPALLPLL AGTLLLLGTATAP

>sp|P48147|PPCE\_HUMAN Prolyl endopeptidase OS=Homo sapiens GN=PREP PE=1 SV=2

MLSLQYPDVYRDETAVQDYHGHI CDPYAWLEDPDSEQTKAFVEAQNKITVPFLEQCPIR  
GLYKERMTELYDYPKYSCHFKKGKRYFYFYNTGLQNQRVLYVQDSLEGEARVFLDPNLS  
DDGTVALRGYAFSEDGEYFAYGLSASGSDWVTIKFMKVDGAKELPDVLERVKFSCMAWTH  
DGKGMFYNSYPQQDGKSDGTETSTNLHQKLYYHVLGTDQSEDILCAEFPDEPKWMGGAEL  
SDDGRYVLLSIREGCDPVNRLWYCDLQQESSGIAGILKWKILDNFEGEYDYVTNEGTVF  
TFKTNRQSPNYRVINIDFRDPEESKWKVLVPEHEKDVLEWIA CVRSNFLVLCYLHDVKNI  
LQLHDLTTGALLKTFPLDVGSIVGYSGQKKDTEIFYQFTSFLSPGIIYHCDLTKEELEPR  
VFREVTVKGIDASDYQTVQIFYP SKDGTIPMFIVHKKGIKLDGSHPAFLYGYGGFNISI  
TPNYSVSR LIFVRHMGGILAVANIRGGGEYGETWHKGGILANKQNC FDDFQCAA EYLIKE  
GYTSPKRLTINGGSNGGLLVAACANQRPD LFGCVIAQVGVM DMLKFHKYTI GHAWTTDYG

CSDSKQHFEWLVKYSPLHNVKLPEADDIQYPSMLLLTADHDDRVPVPLHSLKFIATLQYIV  
GRSRKQSNPLLIHVDTKAGHGAGKPTAKVIEEVSDMFAFIARCLNVDWIP

>sp|O14829|PPE1\_HUMAN Serine/threonine-protein phosphatase with EF-hands 1 OS=Homo sapiens GN=PPEF1 PE=1 SV=1

MGCSSSSTKTRRSDTSLRAALIIQNWYRGYKARLKARQHYALTIFQSIEYADEQGQMQLS  
TFFSFMLENYTHIHKEELELRNQSLESEQDMRDRWDYVDSIDVPDSYNGPRLQFPLTCTD  
IDLLEAFKEQQILHAHYVLELVFETKKVLKQMPNFTHIQTSPSKEVTICGDLHGKLLDDL  
FLIFYKNGLPSEPNPYVFNQDFVDRGKNSIEILMILCVSFLVYPNDLHLNRGNHEDFMMN  
LRYGFTKEILHKYKLHGKRILQILEEFYAWLPIGTIVDNEILVIHGGISETTDLNLLHRV  
ERNKMKSVLIPPTETNRDHTDSKHNKVGVTFAHGRIKTNGSPTEHLTEHEWEQIIDIL  
WSDPRGKNGCFPNTCRGGGCGYFPDVTSKILNKYQLKMLIRSHECKPEGYEICHDKGVVT  
IFSASNYEEGSRNAYIKLCSGTTPRFFQYQVTKATCFQLRQRVDTMENSAIKILRER  
VISRKSDLTRAFQLQDHRKSGKLSVSQWAFCMENILGLNLPWRSLSNVLNIDQNGNVEY  
MSSFQNIIRIEKPVQEAHSTLVETLYRYSDELIIFNAIDTDHSLISVEEFAMWKLFS  
HYNVHIDDSQVNKLANIMDLNKDGSIDFNEFLKAFYVVRHYEDLMKPDVTNLG

>sp|P10619|PPGB\_HUMAN Lysosomal protective protein OS=Homo sapiens GN=CTSA PE=1 SV=2

MIRAAPPPLFLLLLLLLLLLVSWASRGEAAPDQDEIQRLPGLAKQPSFRQYSGYLKSGSGK  
HLHYWFVESQKDPENSPVVLWLNNGGPCSSLDGLLTEHGPFVLPDGVLTLEYNPYSWNLI  
ANVLYLESPAGVGFSYSDDKFYATNDTEVAQSNFEALQDFRFLFPEYKNNKLFLTGESYA  
GIYIPTLAVLVMQDPSMNLQGLAVGNGLSSYEQNDNSLVYFAYYHGLLNRLWSSLQTHC  
CSQKCNFYDNKDLECVTNLQEVARIVGNSGLNIYNLYAPCAGGVPSHFRYEKDTVVVQD  
LGNIFTRLPLKRMWHQALLRSGDKVRMDPPCTNTTAASYLNNPYVRKALNIPEQLPQWD  
MCNFLVNLQYRRLYRSMNSQYLKLLSSQKYQILLYNGDVMACNFMGDEWFVDSLQKME  
VQRRPWLVKYGDSEQIAGFVKEFSHIAFLTIKAGHMPVPTDKPLAAFTMFSRFLNKQPY

>sp|P62937|PPIA\_HUMAN Peptidyl-prolyl cis-trans isomerase A OS=Homo sapiens GN=PPIA PE=1 SV=2

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFYKGSFHRRIIPGF  
MCQGGDFTRHNGTGGKSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTE  
WLDGKHVVFGKVKEGMNIVEAMERFGSRNGKTSKKITIADCGQLE

>sp|Q9BX93|PG12B\_HUMAN Group XIIB secretory phospholipase A2-like protein OS=Homo sapiens GN=PLA2G12B PE=1 SV=2

MKLASGFLVLWLSLGGGLAQSDTSPDTEESYSDWGLRHLRGSFESVNSYFDSFLELLGGK  
NGVCQYRCRYGKAPMPRPYKQEPNGCGSYFLGLKVPESMDLGIPAMTKCCNQLDVCYD  
TCGANKYRCDAKFRWCLHSICSDLKRS LGFVSKVEAACDSLVDTVFNTVWTLGCRPFMNS  
QRAACICAEKEEL

>sp|P15259|PGAM2\_HUMAN Phosphoglycerate mutase 2 OS=Homo sapiens GN=PGAM2 PE=1 SV=3

MATHRLVMVRHGESTWNQENRFCGWFDAELSEKGTTEEAKRGAKAIKDAKMEFDICYTSVL  
KRAIRTLWAILDGTQMWPVVRTWRLNERHYGGLTGLNKAETAAKHGEEQVKIWRRSFD  
IPPPMDEKHPYNSISKERRYAGLKPGELPTCESLKDTIARALPFWNEEIVPQIKAGKR  
VLIAAHGNSLRGIVKHLEGMSDQAIMELNLP TGIPIVYELNKELKPTKPMQFLGDEETVR  
KAMEAVAAQGKAK

>sp|Q8N328|PGBD3\_HUMAN PiggyBac transposable element-derived protein 3 OS=Homo sapiens GN=PGBD3 PE=2 SV=3

MPRTLSEITDLLETDDSI EASAIVIQPPENATAPVSDEESGDEEGGTINNLP GSSLHT

AAYLIQDGSDAESDSDPSYAPKDDSPDEVPSTFTVQQPPPSRRRKMTKILCKWKKADLT  
VQPVAGRV TAPPNDFFTVMRTPT EILEFLDDEVIELIVKYSNLYACSKGVHLGLTSSEF  
KCFLGIIFLSGYVSVPRRRMFWEQRTDVHNVLVSAAMRRDRFETIFSNLHVADNANLDPV  
DKFSKLRPLISKLNRCMKFVPNETYFSFDEFMVPYFGRHGCKQFIRGKPIRFGYKFWCG  
ATCLGYICWFQPYQGKNPNTKHEEYGVGASLVLQFSEALTEAHPGQYHFVFNFFTSIAL  
LDKLSSMGHQATGTVRKDHIDRVPLESDVALKKKERGTFDYRIDGKGNIVCRWNDNSVVT  
VASSGAGIHLPLCLVSRYSQLKKKIQVQQPNMIKVYNQFMGGVDRADENIDKYRASIRGK  
KWYSSPLLFCFELVLQNAWQLHKTYDEKPVDFLEFRRRVVCHYLETHGHPPEPGQKGRPQ  
KRNIDSRDGINHIVKQKQTRCAECHKNTTFRCEKCDVALHVKCSVEYHTE

>sp|Q96GW7|PGCB\_HUMAN Brevican core protein OS=Homo sapiens GN=BCAN PE=1 SV=2

MAQLFLPLLAALVLAQAPAALADVLEGDSSEDRAFRVRIAGDAPLQGVLGALTIPCHVH  
YLRPPPSRRRAVLGSPRVKWTFLSRGREAEVLVARGVRVKVNEAYRFRVALPAYPASLTDV  
SLALSELRPNDSGIYRCEVQHGIIDSSDAVEVKVKGVVFLYREGSARYAFSFGAQEACA  
RIGAHIA TP EQLY AAYLGGYEQCDAGWLS DQTVRYPIQTPREACYGDM DGFPGVRNYGVV  
DPDDLVDVYCYAEDLNGELFLGDPPPEKLTLEEARAYCQERGAEIATTGQLYAAWDGGLDH  
CSPGWLADGSVRYPIVTPSQRCGGGLPGVKTLFLFPNQTGFPNKHSRNFVYCFRDSAQPS  
AIP EASN PASN PASDGL EAI VTVTETLEELQLPQEATESESRGAIYSIPIMEDGGGSST  
PEDPAEAPRTLLEFETQSMVPPTGFSEEEGKALEEEEEKYEDEEEKEEEEEEEEVEDEALW  
AWPSELSSPGPEASLPTEPAAQEESLSQAPARAVLQPGASPLPDGESEASRPPRVHGPPT  
ETLPTPRERNLASPSSTLVEAREVGEATGGPELSGVPRGESEETGSSEGAPSLPATRA  
PEGTRELEAPSEDNSGR TAPAGTSVQAQPVLP TDSASRGGVAVVPASGDCVPSPCHNGGT  
CLEEEEGVRCLCLPGYGGDLCDVGLRFCNPGWDAFQGACYKHFSTRRSWEEAETQCRMYG  
AHLASISTPEEQDFINNRYREYQWIGLNDRTIEGDFLWSDGVPLLYENWNPGQPD SYFLS  
GENCVVMVWHDQGWSDVPCNYHLSYTCMGLVSCGPPPELPLAQVFGRPRLRYEVDTVL  
RYRCREGLAQRNLP LIRCQENGRWEAPQISCVPRRPARALHPEEDPEGRQGRLLGRWKAL  
LIPPSSPMPGP

>sp|A6NDG6|PGP\_HUMAN Glycerol-3-phosphate phosphatase OS=Homo sapiens GN=PGP PE=1 SV=1

MAAAEAGGDDARCVRLSAERAQALLADVDTLLFDCDGLVWRGETAVPGAPEALRALRARG  
KRLGFI TNSSKTRAAAYAEKLRLRGFGGPAGPGASLEVFGTAYCTALYLRQLAGAPAPK  
AYVLGSPALAAELEAVGVASVGVGPEPLQGE GPGDWLHAPLEPDVRAVVVGFDPHFSYMK  
LTKALRYLQQPGCLLVGTNMDNRLPLENRFIAGTGCLVRAVEMAAQRQADIIGKPSRFI  
FDCVSQEYGINPERTVMVGDRDLTDILLGATCGLKTI LTLTG VSTLGDVKNNQESDCVSK  
KKMVPDFYVDSIADLLPALQG

>sp|O15173|PGR2\_HUMAN Membrane-associated progesterone receptor component 2 OS=Homo sapiens GN=PGRMC2 PE=1 SV=1

MAAGDGDVKLGTLGSGSESSNDGGSESPGDAGAAAEGGWAAAALALLTGGGEMLLNVAL  
VALVLLGAYRLWVRWGRRLGAGAGAGEESPATSLPRMKKRDFSLEQLRQYDGSRNPRIL  
LAVNGKVFDVTKGSKFYGPAGPYGIFAGRDASRGLATFCLDKDALRDEYDDLSDLNAVQM  
ESVREWEMQFKEKYDYVGRLLKPGEEPSEYTDEEDTKDHNKQD

>sp|Q9H814|PHAX\_HUMAN Phosphorylated adapter RNA export protein OS=Homo sapiens GN=PHAX PE=1 SV=1

MALEVGD MEDGQLSDSDMTVAPSDRPLQLPKVLGGDSAMRAFQNTATACAPVSHYRAV  
ESVDSSEESFSDSDSDSCLWKRKRQKCFNPPPKPEPFQFGQSSQKPPVAGGKKINNIWGA  
VLQEQNQDAVATELGILGMEGTIDRSRQSETYNYLLAKKLKESQEHTKDLDKELDEYMH

GGKKMGSKEEENGQGHLKRKRPVKDRLGNRPEMNYKGRYEITAEDSQEKVADEISFRLQE  
PKKDLIARVVRIIGNKKAIELLMETAEEVEQNGGLFIMNGSRRRTPGGVFLNLLKNTPSIS  
EEQIKDIFYIENQKEYENKKAARKRRTQVLGKKMKQAIKSLNFQEDDDTSRETFASDTNE  
ALASLDESQEGHAEAKLEAEEAIEVDHSHDLDF

>sp|Q8WV24|PHLA1\_HUMAN Pleckstrin homology-like domain family A member 1 OS=Homo sapiens  
GN=PHLDA1 PE=1 SV=4

MRRAPAAERLLELGFPPRCGRQEPFPLGVTRGWGRWPIQKRREGARPVPFSERSQEDGR  
GPAARSSGTLWRIRTRLSLCRDPEPPPPLCLLRVSLLCALRAGGRGSRWGEDGARLLLLP  
PARAAGNGEAEPSSGGSYAGRMLESSGCKALKEGVLEKRS DGLLQLWKKKCCILTEEGLL  
LIPPKQLQHQQQQQQQQQQQQQPGGPAEPSQPSGPAVASLEPPVKLKHFSNMKT  
DCVERKGKMYFTVVMAGKEIDFRCPQDQGWNAEITLQMVQYKNRQAILAVKSTRQKQQ  
HLVQQQPPSQPQPQLQPQPQPQPQPQPQSQPQPQPQPQPQLHPYPHPHPHS  
HPHSHPHPHPHPHQIPHHPQPHSQPHGHRLLRSTNSA

>sp|O60346|PHLP1\_HUMAN PH domain leucine-rich repeat-containing protein phosphatase 1  
OS=Homo sapiens GN=PHLPP1 PE=1 SV=3

MEPAAAATVQRLPELGREDRASAPAAAAAAAAAAAAAAAAAAAAAGGGRSPEPALTPAAP  
SGGNGSGSGAREEAPGEAPPGLPGRAGGAGRRRRRGAPQPIAGGAAPVPGAGGGANSLL  
LRRGRLKRNLAAAAAASSSSSSAAAASHSPGAAGLPASCSASASLCTRSLDRKTL LK  
HRQTLQLQPSDRDWVRHQLQRGCVHVFD RHMASTYLRPVLCTLDTTAGEVAARLLQLGHK  
GGGVVKVLGGPGAAAAAREPAEPPEAGPRLAPPEPRDSEVPPARSAPGAFGGPPRAPPA  
DLPLPVGGPGWSRRASPAPSDSSPGEPFVGGPVSSPRAPRPVSDTESFSLSPSAESVS  
DRLDPYSSGGGSSSSSELEADAASAPTGVPGQPRRPGHPAQPLPLPQTASSPQPQKAP  
RAIDSPGGAVREGSCEEKAAAAVAPGGLQSTPGRSGVTAEKAPPPPPPTLYVQLHGETT  
RRLEAEEKPLQIQNDYLFQLGFGELWRVQEEGMDSEIGCLIRFYAGKPHSTGSSERIQLS  
GMYNVRKGKMLPVNRWTRRQVILCGTCLIVSSVKDSLTKMHVLP LIGGKVEEVKKHQH  
CLAFSSSGPQSQTYYICFDTFTEYLRWL RQVSKVASQRISVDLSCCSLEHL PANLFYSQ  
DLTHLNLKQNFLRQNPSLPAARGLNELQRFTKLKSLNLSNNHLGDFPLAVCSIPTLAELN  
VSCNALRSVPAAVGVMHNLQTFLLDGNFLQSLPAELENMKQLSYLGLSFNEFTDIPEVLE  
KLTAVDKLCMSGNCVETLRLQALRKMPHIKHVDLRLNVIKLI ADEVDFLQHVTQLDLRD  
NKLGLDAMIFNNIEVLHCERNQLVTLDICGYFLKALYASSNELVQLDVYPVPNYLSYMD  
VSRNRENVPEWVCESRKLEVLDIHGNQICELPARLFCNSSLRKLLAGHNQLARLPERLE  
RTSVEVL DVQHNLLELPPNLLMKADSLRFLNASANKLES LPPATLSEETNSILQELYLT  
NNSLTDKCVPLLTGHPHLKILHMAYNRLQSFASKMAKLEEEIDLSGNKLKA IPTTIM  
NCRRMHTVIAHSNCIEVFPEVMQLPEIKVDLSCNELSEVTLPENLPPKLQELDTGNPR  
LVLDHKTLELLNNIRCFKIDQPSTGDASGAPAVWSHGYTEASGVKNKLCVAALSVNNFCD  
NREALYGVFDGDRNVEVPYLLQCTMSDILAEELQKTKNEEYMVNTFIVMQRKLGTAGQK  
LGGA AVLCHIKHDPDPGGSFTLTSANVGKCQTVLCRNGKPLPLSRSYIMSCEEELKRIK  
QHKAIITEDGKVNGVTESTRILGYTFLHPSVVRPHVQSVLLTPQDEFFILGSKGLWDSL  
SVEEAVEAVRNPDALAAKKLCTLAQSYGCHDSISAVVVQLSVTEDSFCCCELSAGGAV  
PPPSPIFPSSVMV IKDRPSDGLGVPSSSSGMASEISSELSTSEMSSEVGSTASDEPPP  
GALSENSPAYPSEQRCMLHPICLSNSFQRQLSSATFSSAFSDNGLDSDDEEPIEGVFTNG  
SRVEVEVDIHC SRAKEKEKQHL LQVPAEASDEGIVISANEDEPGLPRKADFSAVGTIGR  
RRANGSVAPQERSHNVIEVATDAPLRKPGGYFAAPAQPD PDDQFIIPPELEEEVKEIMKH  
HQEQQQQQPPPPQLQPQLPRHYQLDQLPDYYDTPL

>sp|Q6ZVD8|PHLP2\_HUMAN PH domain leucine-rich repeat-containing protein phosphatase 2

OS=Homo sapiens GN=PHLPP2 PE=1 SV=3

MKRNGSRNCLNRRSRFRGSRERDWRREDVKRGCVYLYGADTTTATTTTTSSSSSSSSSS  
DLHLVLCTVETPASEICAGEGRESLYLQLHGDVLRLEPTERPLQIVYDYSRLGFDDPV  
RIQEEATNPDLGCMIRFYGEKPCHMDRLDRILLSGIYNVRKGKTQLHKWAERLVVLCGTC  
LIVSSVKDCQTGKMHLPLVGGKIEEVKRRQYSLAFSSAGAAQTYHVSFETLAEYQRWQ  
RQASKVVSQRISTVDLSCYSLEEVPEHLFYSQDITYLNLRHNFMLERPGGLDTLYKFSQ  
LKGLNLSHNKLGFPILLCEISTLTELNLSNCGFHDLPISIGNLLNLQTLCLDGNFLTTL  
PEELGNLQQSSLGISFNNFSQIPEVYEKL TMLDRVVMAGNCLEVLNLGVLNRMNHIKHV  
DLRMNHLKTMVIENTEGNKHITHVDLRDNRLTDLSSLCSLEQLHCGRNQLRELTLSGF  
SLRTL YASSNRLTAVNVYPVPSLLTFLDL SRNLEECVPDWACEAKKIEVLDVSYNLLTEV  
PVRILSSL SRKMLGHNHVQNLPTLVEHIPLEVLDLQHNA LTRLPDTLFSKALNLRYL N  
ASANSLES LPSACTGEESL SMLQLLYLTNNLLTDQCIPVLVGH LHLRIHLANNQLQTFP  
ASKLNKLEQLEELNLSGNLKT IPTTTIANCKRLHTLV AHSNNISIFPEILQLPQIQFVDL  
SCNDLTEIL IPEALPATLQDLDTGNTNLVLEHKTL DIFSHITTLKIDQKPLPTDSTVT  
STFWSHGLAEMAGQRNKL CVSALAMDSFAEGVGAVYGMFDGRNEELPRLLQCTMADVLL  
EEVQQSTNDTVFMANTFLVSHRKLGMAGQKLGSSALLCYIRPDTADPASSFSLTVANVGT  
CQAVLCRGGKPVPLSKVFSLEQDPEEAQRVKDQKAIITEDNKVNGVTCCTRMLGCTYLYP  
WILPKPHISSPTLTIQDELLILGNKALWEHLSYTEAVNAVRHVQDPLAAAKKLCTLAQSY  
GCQDNVGAMVVYLNIGEEGCTCEMNGLTLPGPVGFASTTIKDAPKPATPSSSSGIASEF  
SSEMSTSEVSSEVGSTASDEHNAGGLDTALLPRPERRCSLHPTPTSGLFQRQPSSATFSS  
NQSDNGLSDDDDQPEGVITNGSKVEVEVDIHCCRGRDLENSPPLIESSPTLCSEEHARG  
SCFGIRRQNSVNSGMLLPMSKDRMELQKSPSTSCLYGKKLSNGSIVPLEDSLNLIEVATE  
VPKRKTGYFAAPTQMEPEDQFVVPHDLEEEVKEQMKQHQSRLPEPEPHEEDRTEPPEEFD  
TAL

>sp|Q8WYR1|PI3R5\_HUMAN Phosphoinositide 3-kinase regulatory subunit 5 OS=Homo sapiens

GN=PIK3R5 PE=1 SV=1

MQPGATTCTEDRIQHALLERCLHGLSLSRSTSW SAGLCLNCWSLQELVSRDPGHFLILLE  
QILQKTREVQEKGYDLLTPLALLFYSTVLC TPFPPDSDLLLKAASYHRFLTWPVPYC  
SICQELLTFIDAELKAPGISYQRLVRAEQGLPIRSHRSSTVTVLLLNPVEVQAEFLAVAN  
KLSTPGHSPHSAYTLLHAFQATFGAHCDVPGLHCRLQAKTLAELEDIFTETAEAEQELA  
SGIGDAAEARRWLRTKLQAVGEKAGFPGLDTAKPGKLHTIPIVARCYTYSWSQDSFDI  
LQEILLKEQELLQPGILGDDEEEEEEEEEVEEDLETDGHCAERDSLLSTSSLASHDSTLS  
LASSQASGPALSRHLLTSFVSGLSGDMDSGYVEDSEESSSEWPWRRGSQERRGHRRPGQK  
FIRIYKLFKSTSQVLRRDSRSLGSSDTALPLRRAGSLCSPLDEPVSPPSRAQRSRSLP  
QPKLGTQLPSWLLAPASRPQRRRPFLSGDEDPKASTLRVVVFGSDRISGKVARAYSNLRR  
LENNRPLLTRFFKLQFFYVPVKRSHGTSPGACPPPRSQTSPPTDSPRHASPGELGTPW  
EESTNDISHYLGMLDPWYERNVLGLMHLPPPEVLCQQSLKAEAAQALEGSPTQLPILADMLL  
YYCRFAARPVLLQVYQTELTFTITGEKTTEIFIHSLELGHSAATRAIKASGPGSKRLGIDG  
DREAVPLTLQIIYSKGAISGRSRWSNLEKVCTSVNLNKACRKQEELDSSMEALTLNLTEV  
VKRQNSKSKKGFNQISTSQIKVDKVQIIIGNSCPFAVCLDQDERKILQSVVRCEVSPCYK  
PEKSDLSSPPQTPPDLPAAAPDLCSLLCLPIMTFSGALP

>sp|Q9UBF8|PI4KB\_HUMAN Phosphatidylinositol 4-kinase beta OS=Homo sapiens GN=PI4KB PE=1

SV=1



MGDTVVEPAPLKPTSEPTSGPPGNGGSLLSVITEGVGELSVIDPEVAQKACQEVLEKVK  
LLHGGVAVSSRGTPLELVNGDGVSEIRCLDDPPAQIREEEDEMGAASGTAKGARRRR  
QNNSAKQSWLLRLFESKLFDISMAISYLYNSKEPGVQAYIGNRLFCFRNEDVDFYLPQLL  
NMYIHMDDEDVGAIDKPYIVHRCRQSINFSLQCALLLGAYSSDMHISTQRHSRGTKLRKLI  
LSDELKPAHRKRELPSLSPAPDTGLSPSKRTHQRSKSDATASISLSSNLKRTASNPKVEN  
EDEELSSSTESIDNSFSSPVRLAPEREFIKSLMAIGKRLATLPTKEQKTQRLISELSLLN  
HKLPARVWLPTAGFDHHVVRVPHQTQAVVLNSKDKAPYLIYVEVLECFDFTTSVPAPIPE  
NRIRSTRSVENLPECGITHEQRAGSFSTVPNYDNDDEAWSVDDIGELQVELPEVHTNSCD  
NISQFSVDSITSQESKEPVFIAAGDIRRRLSEQLAHTPTAFKRDPEDPSAVALKEPWQEK  
VRRIREGSPYGHLPNWRLLSVIVKCGDDLQELLAFQVLKQLQSIWEQERVPLWIKPYKI  
LVISADSGMIEPVNAVSIHQVKKQSQLSLLDYFLQEHGSYTTEAFLSAQRNFVQSCAGY  
CLVCYLLQVKDRHNGNILLDAEGHIIHIDFGFILSSSPRNLFGETSAFKLTTEFVDMGG  
LDGDMFNYYKMLMLQGLIAARKHMDKVVQIVEIMQQGSQLPCFHGSSTIRNLKERFHMSM  
TEEQLQLLVEQMVDGSMRSITTKLYDGFQYLTNGIM

>sp|Q13526|PIN1\_HUMAN Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 OS=Homo sapiens GN=PIN1 PE=1 SV=1

MADEEKLPPEGWEKMSRSSGRVYFNFHITNASQWERPSGNSSSGGKNGQGEPARVRCSHL  
LVKHSQSRRPSSWRQEKITRTKEEALELINGYIQIKISGEEDFESLASQFSDCSSAKARG  
DLGAFSRGQMMPFEDASFALRTGEMSGPVFTDSGIHIILRTE

>sp|Q9BXM7|PINK1\_HUMAN Serine/threonine-protein kinase PINK1, mitochondrial OS=Homo sapiens GN=PINK1 PE=1 SV=1

MAVRQALGRGLQLGRALLRFTGKPGRAYGLGRPGPAAGCVRGERPGWAAGPGAEPRRVG  
LGLPNRLRFFRQSVAGLAARLQRQFVVRWGCAGPCGRAVFLAFGLGLLIEEKQAESRR  
AVSACQETQAIQFTQKSKPGPDPLDTRRLQGFRLEEYLIGQSIGKCSAAVYEATMPTLPQ  
NLEVTGSTGLLPGRPGTSAPGEGQERAPGAPAFPLAIKMMWNISAGSSSEAILNTMSQE  
LVPASVALAGEYGAVTYRKS KRGPQLAPHNPNIIRVLRAFTSSVPLLPALVDYDPVLP  
SRLHPEGLGHGRTLFLVMKNYPCTLRQYLCVNTSPRLAAMMLLQLLEGVDHLVQQGIAH  
RDLKSDNILVELDPDGCPWLVIADFGCLADESIGLQLPFSSWYVDRGGNGCLMAPEVST  
ARPGPRAVIDYSKADAWAVGAIAYEIFGLVNPFGQGKAHLESRSYQEAQLPALPESVPP  
DVRQLVRALLQREASKRPSARVAANVLHLSLWGEHILALKNLKLDKMGWLLQQAATLL  
ANRLTEKCCVETKMKMLFLANLECETLCQAALLCSWRAAL

>sp|Q99697|PITX2\_HUMAN Pituitary homeobox 2 OS=Homo sapiens GN=PITX2 PE=1 SV=2

METNCRKLVSACVQLGVQPAAVECLFSKDSEIKKVEFTDSPESRKEAASSKFFPRQHPGA  
NEKDKSQQGKNEDVGAEDPSKKKRQRRQRTHFTSQQLQELEATFQRNRYPDMSTREEIAV  
WTNLTEARVRVWFKNRRAKWRKRERNQQAELCKNGFGPQFNGLMQPYDDMYPGYSYNNWA  
AKGLTSASLSTKSFPFFNSMNVNPLSSQSMFSPNISMSMSSSMVPSAVTGVPGSSLN  
SLNNLNLSSPSLNSAVPTPACPYAPPTPPYVYRDTCNSSLASLRLKAKQHSSFGYASVQ  
NPASNLSACQYAVDRPV

>sp|Q8TC59|PIWL2\_HUMAN Piwi-like protein 2 OS=Homo sapiens GN=PIWIL2 PE=1 SV=1

MDPFRPSFRGQSPIHPSQCQAVRMPGCWPQASKPLDPALGRGAPAGRGHVFGKPEEPSTQ  
RGPAQRESVGLVSMFRGLGIETVSKTPLKREMLPSGRGILGRGLSANLVRKDREELSPTF  
WDPKVLAAAGDSKMAETS VGSRTLGRGSSDASLLPLGRAAGGISREVDKPPCTFSTPSRG  
PPQLSSPPALPQSPLHSPDRPLVLTVEHKEKELIVKQGSKGTPQSLGLNLVKIQCHNEAV  
YQYHVTFSNVECKSMRFGMLKDHQAVTGNVTAFDGSILYLPVKLQQVLELKSQRKTDSA

EISIKIQMTKILEPCSDLCIFYNVVFRRVMKLLDMKLVGRNFYDPTSAMVLQQHRLQIW  
PGYAASIRRTDGGFLFLADVSHKVI RNDCVLDVMHAIYQQNKEHFQDECTKLLVGNIVIT  
RYNNRTYRIDVDWNKTPKDSFTMSDGKEITFLEYYSKNYGITVKEEDQPLLIHRPSE  
DNHGMLLKGEILLPELSFMTGIPEKMKKDFRAMKDLAQINLSPKQHSALECLLQRIA  
KNEAATNELMRWGLRLQKDVHKIEGRVLPMERINLKNTSFITSQELNWVKEVTRDPSILT  
IPMHFWALFYPKRAMDQARELVNMLEKIAGPIGMRMSPPAWVELKDDRIETYVRTIQSTL  
GAEGKIQMVVCIIMGPRDDLYGAIKKLCCVQSPVPSQVVNVRTIGQPTRLRSVAQKILLQ  
INCKLGELWGVDIPLKQLMVIGMDVYHDP SRGMRSVVGFVASINLTLTKWYSRVVFQMP  
HQEIVDSLKLCLVGLSKKFYEYNHCLPEKIVVYRDGVSDGQLKTVANYEIPQLKCFEAF  
ENYQPKMVVFVQKKISTNLYLAAPQNFVTPPTGTVVDHTITSCEWVDFYLLAHHVRQGC  
GIPTHYVCVLNTANLSPDHMQRLTFKLCHMYWNWPGTIRVPAPCKYAHKLAFLSGHILHH  
EPAIQLCENLFFL

>sp|Q7Z3Z4|PIWL4\_HUMAN Piwi-like protein 4 OS=Homo sapiens GN=PIWIL4 PE=2 SV=2

MSGRARVKARGIARSPSATEVGRIQASPLPRSVDLNNEASSNGFLGTSRISTNDKYGI  
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>sp|O43164|PJA2\_HUMAN E3 ubiquitin-protein ligase Praja-2 OS=Homo sapiens GN=PJA2 PE=1 SV=4

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>sp|Q8TDX9|PK1L1\_HUMAN Polycystic kidney disease protein 1-like 1 OS=Homo sapiens GN=PKD1L1 PE=1 SV=1

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>sp|Q7Z443|PK1L3\_HUMAN Polycystic kidney disease protein 1-like 3 OS=Homo sapiens  
GN=PKD1L3 PE=1 SV=1

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>sp|Q9HBJ0|PLAC1\_HUMAN Placenta-specific protein 1 OS=Homo sapiens  
GN=PLAC1 PE=2 SV=1

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>sp|Q9UPG8|PLAL2\_HUMAN Zinc finger protein PLAGL2 OS=Homo sapiens  
GN=PLAGL2 PE=2 SV=1

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>sp|Q9Y263|PLAP\_HUMAN Phospholipase A-2-activating protein OS=Homo sapiens GN=PLAA PE=1  
SV=2

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>sp|Q9P212|PLCE1\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase  
epsilon-1 OS=Homo sapiens GN=PLCE1 PE=1 SV=3

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>sp|P16885|PLCG2\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2  
OS=Homo sapiens GN=PLCG2 PE=1 SV=4

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SKFYS

>sp|Q9NYT0|PLEK2\_HUMAN Pleckstrin-2 OS=Homo sapiens GN=PLEK2 PE=1 SV=1

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>sp|P08567|PLEK\_HUMAN Pleckstrin OS=Homo sapiens GN=PLEK PE=1 SV=3

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>sp|Q9Y342|PLLP\_HUMAN Plasmolipin OS=Homo sapiens GN=PLLP PE=1 SV=1

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YA

>sp|O14494|PLPP1\_HUMAN Phospholipid phosphatase 1 OS=Homo sapiens GN=PLPP1 PE=1 SV=1

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>sp|P00491|PNPH\_HUMAN Purine nucleoside phosphorylase OS=Homo sapiens GN=PNP PE=1 SV=2

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VPGHAGRLVFGFLNGRACVMMQGRFHM YEGYPLWKVTFPVRVFHLLGVDTLVVTNAAGGL  
NPKFEVGDIMLIRDHINLPGFSGQNPLRGPN DERFGDRFPAMSDAYDRTMRQALSTWKQ  
MGEQRELQEGTYVMVAGPSFETVAECRVLQKL GADAVGMSTVPEVIVARHCGLRVFGFSL  
ITNKVIMDYESLEKANHEEVLAAGKQAAQKLEQFVSILMASIPLPKAS

>sp|P20264|P03F3\_HUMAN POU domain, class 3, transcription factor 3 OS=Homo sapiens  
GN=POU3F3 PE=2 SV=2

MATAASNPYLPGN SLLAAGSIVHSDAAGAGGGGGGGGGGGGAGGGGGGMQPGSAAVTS  
GAYRGDPSSVKMVQSDFMQGAMAASNGGHMLSHAHQWVTALPHAAAAAAAAAAAAVEASS  
PWGSAVGMAGSPQQPPQPPPPPPQGP DVKGGAGRDDLHAGTALHHRGPPHLGPPPPPPH  
QGHPPGWGAAAAAAAAAAAAAAAAHLPSMAGGQPP PQSLLYSQPGGFTVNGMLSAPPGP  
GGGGGGAGGGAQSLVHPGLVRGDTPELA EHHHHHHHHHAHPHPHPHHAQGPPHHGGGGGG  
AGPGLNSHDPHSD EDTPTSDDLEQFAKQFKQRRIKLGFTQADVGLALGTLYGNVFSQTTI  
CRFEALQLSFKNMCKLKPLL NKWLEEADSS TGSPTSIDKIAAQGRKKRKRTSIEVS VKGA  
LESHFLKCPKPSAQEITNLADSLQLEKEVVRVWF CNRRQKEKRMTPPGIQQQTPDDVYSQ  
VGTVSADTPPPHHGLQTSVQ

>sp|Q01860|PO5F1\_HUMAN POU domain, class 5, transcription factor 1 OS=Homo sapiens  
GN=POU5F1 PE=1 SV=1

MAGHLASDFAFSPPPGGGGDGP GGPEPGWDPRTWLSFQPPGGPGIGPGVGP GSEVWGI

PPCPPPYEFCGGMAYCGPQVGVLVPQGGLETSQPEGEAGVGVESNSDGASPEPCTVTPG  
AVKLEKEKLEQNPEESQDIKALQKELEQFAKLLKQKRITLGYTQADVGLTLGVLFQKVF  
QTTICRFEALQLSFKNMCKLRPLLQKWVEEADNNENLQEICKAETLVQARKRKRTSIENR  
VRGNLENLFLQCPKPTLQQISHIAQQLGLEKDVVRVWFCNRRQKGRSSSDYAQREDFEA  
AGSPFSGGPVSFPLAPGPHFGTPGYGSPHFTALYSSVPFPEGEAFPPVSVTTLGSPMHSN  
>sp|P56589|PEX3\_HUMAN Peroxisomal biogenesis factor 3 OS=Homo sapiens GN=PEX3 PE=1 SV=1  
MLRSVWNFLKRHHKKKCIFLGTVLGGVYILGKYGQKKIREIQEREAEEYIAQARRQYHFES  
NQRTCNMTVLSMLPTLREALMQQLNSESLTALLKNRPSNKLEIWEDLKIIISFTRSTVAVY  
STCMLVLLRRVQLNIIGGYIYLDNAAVGKNGTTILAPPDVQQYLSSIQHLLGDGLTELI  
TVIKQAVQKVLGVSLSKHSLSLLDLEQKLKEIRNLVEQHKSSSWINKDGSKPLLCHYMMP  
DEETPLAVQACGLSPRDITTIKLLNETRDMLESPDFSTVLNTCLNRGFSRLLDNMAEFFR  
PTEQDLQHGNMNSLSSVSLPAKIIPIVNGQIHVCSETPSHFVQDLLTMEQVKDFAAN  
VYEAFTPTQQLEK

>sp|Q8IYB4|PEX5R\_HUMAN PEX5-related protein OS=Homo sapiens GN=PEX5L PE=1 SV=2  
MYQGHMQKSKEQGYGLSSDEDELEIIVDQKQKGSRAADKAVAMVMKEIPREESAEEKPL  
LTMTSQLVNEQQESRPLLSIDDFLCETKSEAIARPVTSNTAVLTTGLDLLDLSEPVSQ  
TQTKAKKSEPSSKTSLSKKKADGSDLISTDAEQRGQPLRVPETSSLDLDIQTQLEKWDDV  
KFHGDNRNTKGHPMAERKSSSSRTGSKELLWSSEHRSQPELSGGKSALNSESASELELVAP  
TQARLTKEHRWGSALLSRNHSLEEEFERAKAAVESDTEFWDKMQAEEEMARRNWISENQ  
EAQNQVTISASEKGYFHTENPFKDWPGAFEEGLKRLKEGDLPTILFMEAAILQDPGDA  
EAWQFLGITQAENENEQAAIIVALQRCLELQPNNLKALMALAVSYTNTGHQQDACDALKNW  
IKQNPKYKYLVKSKKGSPGLTRMSKSPVDSSVLEGVKELYLEAAHQNGDMIDPDLQTGL  
GVLFHLSGEFNRAIDAFNAALTVRPEDYSLWNRLGATLANGDRSEEAVEAYTRALEIQPG  
FIRSRYNLGISCINLGAYREAVSNFLTALSLQRKSRNQQVPHPAISGNIWAALRIALSL  
MDQPELFFQANLGDLDVLLRAFNLDP

>sp|P10720|PF4V\_HUMAN Platelet factor 4 variant OS=Homo sapiens GN=PF4V1 PE=1 SV=1  
MSSAARSRLTRATRQEMLFALALLPVVAFARAEAEEDGDLQCLCVKTTSQVRPRHITS  
LEVIKAGPHCPTAQLIATLKNRRIKCLDLQALLYKKIIKEHLES

>sp|Q9UHV9|PFD2\_HUMAN Prefoldin subunit 2 OS=Homo sapiens GN=PFDN2 PE=1 SV=1  
MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRLASKAAELEMELNEHSLVIDT  
LKEVDETRKCYRMVGGVLVERTVKEVLPALENNKEIQKIETLTQQQLQAKGKELNEFRE  
KHNIIRLMGEDEKPAAKENSEGAGAKASSAGVLVS

>sp|P15428|PGDH\_HUMAN 15-hydroxyprostaglandin dehydrogenase [NAD(+)] OS=Homo sapiens  
GN=HPGD PE=1 SV=1

MHVNGKVALVTGAAQGIGRAFAEALLKGAKVALVDWNLEAGVQCKAALDEQFEPQKTLF  
IQCDVADQQQLRDTFRKVVDFHGRDLILVNNAGVNNEKNWEKTLQINLVSVISGTYLGLD  
YMSKQNGGEGGIIINMSSLAGLMPVAQQPVYCASKHGIVGFTRSAALANLMNSGVRLNA  
ICPGFVNTAILESIEKEENMGQYIEYKDHIKDMIKYYGILDPPLIANGLITLIEDDALNG  
AIMKITTSKGIHFQDYDTTPFQAKTQ

>sp|P23219|PGH1\_HUMAN Prostaglandin G/H synthase 1 OS=Homo sapiens GN=PTGS1 PE=1 SV=2  
MSRSLLLWFLFLLLLPPLPVLLADPGAPTPVNPCCYPCQHGGICVRFGLDTRYQCDCTR  
TGYSGPNTIPGLTWLRLNSLRSPSFTHFLTHGRWFEFVNATFIREMLMRLVLTVRS  
NLIPSPPTYNSAHDYISWESFSNVSYTRILPSVPKDCPTPMGTGKKGQLPDAQLLARRF  
LLRRKFIPDPQGTNLMFAFFAQHFTHQFFKTSGKMGPFGTKALGHGVDLGHYGDNLERQ



YQLRLFKDGKLYQVLGDGEMYPSPVEEAPVLMHYPRGIPPQSQMAVGQEVFGLLPGLMLY  
ATLWLRHNRVCDLLKAEHPTWGDEQLFQTTRLILIGETIKIVIEEYVQQLSGYFLQLKF  
DPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSFKVGSQEYSYEQFLNNTSMLVDYGVEA  
LVDAFSRQIAGRIGGGRNMDHHILHVAVDVIRESREMRLQPFNEYRKRFGMKPYTSFQEL  
VGEKEMAAELEELYGDIDALEFYPGLLLEKCHPNISIFGESMIEIGAPPSLKGLLGNPICS  
PEYWKPSTFGGEVGFNIVKTATLKKLVCLNTKTCPYVSFRVPDASQDDGPAVERPSTEL

>sp|P35354|PGH2\_HUMAN Prostaglandin G/H synthase 2 OS=Homo sapiens GN=PTGS2 PE=1 SV=2

MLARALLLCAVLALSHTANPCCSHPCQNRGVCMSVGFDQYKDCDTRTGFYGENCSTPEFL  
TRIKLFLKPTNTVHYILTHFGKFWNVNNIPFLRNAIMSIVLTSRSHLIDSPPTYNADY  
GYKSWEAFSNLSYYTRALPPVPDDCPTPLGVKGKKQLPDSNEIVEKLLLRKFIPDPQGS  
NMMFAFFAQHFTHQFFKTDHKGPAFTNGLGHGVDLNHIYGETLARQRKLRLFKDGKMKY  
QIIDGEMYPPTVKDTQAEMIYPPQVPEHLRFAVGQEVFGLVPGLMMYATIWLREHNRVCD  
VLKQEHPEWGDEQLFQTSRLILIGETIKIVIEDYVQHLSGYHFKLKFDELLFNKQFQYQ  
NRIAAEFNTLYHWHPLLPDTFQIHDQKYNQQFIYNNISILLEHGITQFVESFTRQIAGRV  
AGGRNVPPAVQKVSQASIDQSRQMKYQSFNEYRKRFMKPYESFEELTGEKEMSAELEAL  
YGDIDAVELYPALLVEKPRPDAIFGETMVEVGAPPSLKGLMGNVICSPAYWKPSTFGGEV  
GFQIINTASIQSLICNNVKGCPFTSFSVPDELIKTVTINASSRSGLDDINPTVLLKER  
STEL

>sp|P00558|PGK1\_HUMAN Phosphoglycerate kinase 1 OS=Homo sapiens GN=PGK1 PE=1 SV=3

MSLSNKLTLDKLDVKGKRVVMRVDNFVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVL  
MSHLGRPDGVPMPDKYSLEPVAVELKSLLGKDVFLKDCVGEVEKACANPAAGSVILLE  
NLRFHVEEEGKGKDGASGNKVKAEPKIEAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVN  
LPQKAGGFLMKKELNYFAKALESERPFLAILGGAKVADKIQLINNMLDKVNEMIIGGGM  
AFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ  
ATVASGIPAGWMLDCGPESSKKYAEAVTRAKQIVWNGPVGVFEWEAFARGTKALMDEVV  
KATSRGCITIIGGDTATCCAKWNTEDKVSHVSTGGGASLELLEGGVLPGVDALSNI

>sp|P36871|PGM1\_HUMAN Phosphoglucomutase-1 OS=Homo sapiens GN=PGM1 PE=1 SV=3

MVKIVTVKTQAYQDQKPGTSGLRKRVKVFQSSANYAENFIQSIISTVEPAQRQEATLVVG  
GDGRFYMKEAIQLIARIAAANGIGRLVIGQNGILSTPAVSCIIRKIKAIIGGIILTASHNP  
GGPNGDFGIKFNISNGGPAPEAITDKIFQISKITIEEYAVCPDLKVDLGVLGKQQFDLENK  
FKPFTVEIVDSVEAYATMLRSIFDFSALKELLSGPNRLKIRIDAMHGVVGPYVKKILCEE  
LGAPANSAVNCVPLEDFGGHHPDNLTYAADLVETMKSGEHDFGAAFDGDGRNMILGKH  
GFFVNPDSVAVIAANIFSIPYFQQTGVRGFARSMPTSGALDRVASATKIALYETPTGWK  
FFGNLMDASKLSLCGEESFGTGS DHIREKDGLWAVLAWLSILATRKQSVEDILKDHWWKY  
GRNFFTRYDYEEVEAEGANKMMKDLEALMFD RSFVGKQFSANDKVYTV EKADNFEYSDPV  
DGSISRNLQGLRLIFTDGSRIVFRLSGTGSAGATIRLYIDSYEKDVAKINQDPQVMLAPLI  
SIALKVSQEQERTGRTAPTIVIT

>sp|000264|PGRMC1\_HUMAN Membrane-associated progesterone receptor component 1 OS=Homo sapiens GN=PGRMC1 PE=1 SV=3

MAAEDVATGADPSDLESGLLHEIFTSPLNLLLLGLCIFLLYKIVRGDQPAASGDSDDD  
EPPPLPRLKRRDFTPAELRRFDGVQDPRILMAINGKVFVDVTKGRKFYGPYPYGVFAGRD  
ASRGLATFCLDKALKDEYDDLSDLTAAQQETLSDWESQFTFKYHHVGKLLKEGEEPTVY  
SDEEPPKDESARKND

>sp|Q96LB9|PGRP3\_HUMAN Peptidoglycan recognition protein 3 OS=Homo sapiens GN=PGLYRP3  
PE=1 SV=1

MGTLPWLLAFFILGLQAWDTPTIVSRKEWGARPLACRALLTLPVAYIITDQLPGMQCQQQ  
SVCSQMLRGLQSHSVYTIGWCDVAYNFLVGDDGRVYEGVGWNIQGLHTQGYNNISLGIAF  
FGNKIGSSPSPAALSAAEGLISYAIQKGHLSPRYIQPLLLKEETCLDPQHPVMPRKVCPN  
IIKRSARETHCPKMNLPAKYVIIHTAGTSCTVSTDCQTVVRNIQSFHMDTRNFCDI  
GYHFLVGQDGGVYEGVGWHIQGSHTYGFNDIALGIAFIGYFVEKPPNAAALEAAQDLIQC  
AVVEGYLTPNYLLMGHSDVNNILSPGQALYNIISTWPHFKH

>sp|P21810|PGS1\_HUMAN Biglycan OS=Homo sapiens GN=BGN PE=1 SV=2

MWPLWRLVSLALSQALPFEQRGFWDFTLDDGPFMMNDEEASGADTSGVLPDPSVTPTYS  
AMCPFGCHCHLRVVQCSDLGLKSVPEISPDITLLDLQNDISELRKDDFKGLQHLIALV  
LVNNKISKIHEKAFSPLRKLQKLYISKNLVEIPPNLPSLVELRIHDNRIRKVPKGVFS  
GLRNMNCIEMGGNPLENSGFEPGAFDGLKLNLYRISEAKLTGIPKDLPETLNELHLDHNK  
IQAIELEDLLRYSKLYRLGLGHNQIRMIENGSLSLPTLRELHLDNNKLARVPSGLPDLK  
LLQVVYLHSNNITKVGVDNFCPMGFVKRAYNGISLFNNVPYWEVQATFRCVTDRLA  
IQFGNYKK

>sp|Q8N6C7|PGSF1\_HUMAN Putative uncharacterized protein encoded by MIR7-3HG OS=Homo  
sapiens GN=MIR7-3HG PE=5 SV=1

MPGMRLVCRLAHGHFPRKGQRRSLTVWKAETSRADCLGAPNIRTAPLGRSEKRTAICFS  
TGAQDSSQRAPFRLQNPQQLQLGMHSLHLHPELPTTDPAFFCKLHFIKGNDPYCLTISH  
VKSVLTFS

>sp|Q99623|PHB2\_HUMAN Prohibitin-2 OS=Homo sapiens GN=PHB2 PE=1 SV=2

MAQNLKDLAGRLPAGPRGMGTALKLLGAGAVAYGVRESVFTVEGGHRAIFFNRIGGVQQ  
DTILAEGLHFRIPWFQYPIIYDIRARPRKISSPTGSKDLQMVNISLRVLSRPNAQELPSM  
YQRLGLDYEERVLPSIVNEVLKSVVAKFNASQLITQRAQVSLIRRELTERAKDFSLILD  
DVAITELSFREYTAAVEAKQVAQQAQRAQFLVEKAKQEQRQKIVQAEGEAAKMLGE  
ALSKNPGYIKLRKIRAAQNISKTIATSNRIYLTADNLVLNLQDESFTRGSDSLIKGKK

>sp|P35232|PHB\_HUMAN Prohibitin OS=Homo sapiens GN=PHB PE=1 SV=1

MAAKVFESIGKFLALAVAGGVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPW  
VQKPIIFDCRSRPRNPVITGSKDLQNVNITLRLFRPVASQLPRIFTSIGEDYDERVLP  
SITTEILKSVVARFDAGELITQRELVSQRVSDDLTERAATFGLILDDVSLTHLTFGKEFT  
EAVEAKQVAQQAERARFVVEKAEQKKAIIISAEGDSKAAELIANSLATAGDGLIELRK  
LEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ

>sp|Q96QT6|PHF12\_HUMAN PHD finger protein 12 OS=Homo sapiens GN=PHF12 PE=1 SV=2

MWEKMETKITIVYDLDTSGGLMEQIQALLAPPKTDEAEKRSRKPEKEPRRSGRATNHDSCD  
SCKEGDILLCCDHCPAAFHLQCCNPPLSEEMLPPEWMCHRCTVRRKKREQKKELGHVNG  
LVDKSGKRTTSPSSDITLLDRSASKTELKAIHARILERRASRPPTSSASTETPTSEQ  
NDVDEDIIDVDEEPVAAEPDYVQQLRRPFELLIAAMERNPTQFQLPNELTCTTALPGS  
SKRRRKEETTGNVKKTQHELDHNLVPLPVKVCFTCNRSRVAPLIQCDYCPLLFHMDC  
LEPPLTAMPLGRWMCNPHIEHVVLNQKNMTLSNRCQVDFRQDTSQHVVKVDFLNRHK  
KHPPNRRVLQSVKRRSLKVPDAIKSQYQFPPLIAPAAIRDGELICNGIPEESQMHLNLS  
EHLATQAEQEWLCSVVALQCSILKHLQSAQMPSHWDEQTEKADIKPVIIVTSSVTSL  
QTADKTPTPSHYPLSCPSGISTQNSLSCSPPHQSPALEDIGCSSCAEKSCKTTCGTANGP  
VNTEVKANGPHLYSSPTDSTDPRLPGANTPLPGLSHRQGWPRPLTPPAAGGLQNHTVGI

IVKTENATGPSSCPQRS LVPVPSLPSPSSIPSSCASIENSTLQRKTVQS QIGPPLTDSRPL  
GSPPNATRVLTTPQAAGD GILATTANQRFSSPAPSSDGKVS PGTLSIGSALTVPSPFANS  
TAMVDLTNSLRAFMDVNGE IEINMLDEKL IKFLALQRIHQLFPSRVQSPG SVGTHQLAS  
GGHHIEVQRKEVQARAVFY PLLGLGAVNMCYRTLYIGTGADMDVCLTNYGHCNYVSGKH  
ACIFYDENTKHYELLYNSEHGTTVDNVL YSCDFSEKTPPTPPSSIVAKVQSVIRRRRHQK  
QDEEPS EEAAMSSQAQGPQRRPCNCKASSSS LIGSGAGWEGTALLHHGSYIKLGCLQF  
VFSITEFATKQPKGDASLLQDGVLA EKLSLKPHQGPPVLRSNSVP

>sp|Q7RTV0|PHF5A\_HUMAN PHD finger-like domain-containing protein 5A OS=Homo sapiens  
GN=PHF5A PE=1 SV=1

MAKHHPDLIFCRKQAGVAIGRLCEKCDGKCVICDSYVRPCTLV RICDECNYGSYQGRCVI  
CGGPGVSDAYYCKECTIQEKDRDGC PKIVNLGSSKTDLFYERKKYGFKKR

>sp|Q92561|PHYIP\_HUMAN Phytanoyl-CoA hydroxylase-interacting protein OS=Homo sapiens  
GN=PHYHIP PE=1 SV=1

MELLSTPHSIEINNITCDSFRISWAMEDSDLERVTHYFIDL NKKENKNSNKFKHRDVPTK  
LVAKAVPLPMTVRGHWFLSPRTEYSVAVQTAVKQSDGEYLVSGWSETVEFCTGDYAKEHL  
AQLQEKAEQIAGRMLRFSVFYRNHHKEYFQHARTHCGNMLQP YLKDNSGSHGSPTS GMLH  
GVFFSCNTEFNTGQPPQDSPYGRWRFQIPAQR LFNPNSTNLYFADFYCMYTAYHYAILVLA  
PKGSLGDRFCRDRLPLLDIACNKFLTCSVEDGELVFRHAQDL ILEIIYTEPVDSLGLTLG  
EISGHQLMSLSTADAKKDPSCKTCNISVGR

>sp|P43119|PI2R\_HUMAN Prostacyclin receptor OS=Homo sapiens GN=PTGIR PE=1 SV=1

MADSCRNLTYVRGSGPATSTLMFVAGVVG NGLALGILSARRPARPSAF AVLVTGLAATD  
LLGTSFLSPAVFVAYARNSSLLGLARGGPALCD AFAFAMTFFGLASMLILFAM AVERCLA  
LSHPYLYAQLDGPRCARLALPAIYAFCVLFCALPL LGLGQHQQYCPGSWCFLMRW AQP  
GAAFSLAYAGLVALLVAAIFLCNGSVTSLCRM YRQQKRHQGSLGPRPRTGEDEV DHLIL  
LALMTVVMVAVCSLPLTIRCFTQAVAPDSSSEM GDLLAFRFYAFNPILDPWVFILFRK AVF  
QRLKLWVCCLCLGPAHGDSQTPLSQLASGR RDPRAPSAPVGKEGSCVPLSAWGE GQVEPL  
PPTQQSSGSAVGTSSKAEASVACSLC

>sp|P48426|PI42A\_HUMAN Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha OS=Homo sapiens  
GN=PIP4K2A PE=1 SV=2

MATPGNLGSSVLASKTKTKKKHFVAQKV KLFRASDPLLSVLMWGVNHSINELSHVQIPVM  
LMPDDFKAYS KIKVDNHLFNKENMP SHFKFKEYCPMVFRNLRRERFGID DQDFQNSLTRSA  
PLPNDSQARS GARFHTSYDKRYIIKTITSEDVAEMHNILKKYHQYIVECHGITLLPQFLG  
MYRLNVDGVEIYIVITRNVFSHRLSVYRKYDLKGSTVAREAS DKEKAKELPTLKDNDFIN  
EGQKIYIDDNKKVFLEKLKDV EFLAQLKMDYSLLVG IHDVERAEQEEVECEENDGEE  
EGESDGTHPVGTPPDSPGNTLNSSPPLAPGE FDNIDVYGKCHENS PRKEVYFMAIIDI  
LTHYDAKKKAAHA AKTVKHGAGAEISTVNPEQYSKRFLDFIGHILT

>sp|Q8TBX8|PI42C\_HUMAN Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma OS=Homo sapiens  
GN=PIP4K2C PE=1 SV=3

MASSSVPPATVSAATAGPGPGFGFASKTKKKHFVQQKV KVFRAADPLVGVFLWGV AHSIN  
ELSQVPPPVMLLPDDFKASSKIKVNNHLFHRENLP SHFKFKEYCPQVFRNL RDRFGID DQ  
DYLVS LTRNPPSESEGS DGRFLISYDRTLVIKEVSS EDIADMHSNLSNYHQYIVKCHGNT  
LLPQFLGM YRVSDNEDSYMLVMRNMFSHRLPVHRKYDLK GSLVSREAS DKEKV KELPTL  
KDMDFLNKNQKVYIGEEKKIFLEKLKRDVEFLVQLKIMDYS LLLGIHDIIRGSEPEEEA  
PVREDESEVDGDCSLTGPPALVGSYGTSPEGIGGYIHSRPLGPGEFESFIDVYAIRSAE

GAPQKEVYFMGLIDILTQYDAKKKAAHAAKTVKHGAGAEISTVHPEQYAKRFLDFITNIF

A

>sp|Q00169|PIPNA\_HUMAN Phosphatidylinositol transfer protein alpha isoform OS=Homo sapiens GN=PITPNA PE=1 SV=2

MVLLKEYRVILPVSVD EYQVGQLYSVAEASKNETGGGEGVEVLVNEPYEKDGEKGQYTHK  
IYHLQSKVPTFVRMLAPEGALNIHEKAWNAYPYCRTVITNEYMKEDFLIKIETWHKPDLG  
TQENVHKLEPEAWKHVEAVYIDIADRSQVLSKDYKAEEDPAKF SIKTGRGPLGPNWKQE  
LVNQKDCPYMCAYKLVTVKFKWWGLQNKVENFIHKQERRLFTNFHRQLFCWLDKWVDLTM  
DDIRMEEEETKRQ LDEM RQKDPVKGMTADD

>sp|A2A3N6|PIPSL\_HUMAN Putative PIP5K1A and PSMD4-like protein OS=Homo sapiens GN=PIPSL  
PE=5 SV=1

MASEVPYASGMP IKKIGHRSVDSSGGTTSSALKGAIQLGITHTVGSLSTKPESDVL MQDF  
HMVESIFFPSEGSNLTPAHHYNAFRFKTYAPVAFRYFWELFGIRPDDYLYSLCSEPLIEL  
CSSGASGSLFYVSSDDEFIVKTVRHKEAEFLQKLLPGYYINLNQNPRTLLPKFYGLYCVQ  
TGGKNIRIVVMNNLLPRSVKMH IKYDLKGSTYRRRASQKEREKPLPTFKDLDFLQDIPDG  
LFLDADVHNALCKTLQRDCLVLQSFKIMDYSLMSIHNIDHAQREPLSSETQYSVDTRRP  
APQKALYSTAMESIQGEARRGGT METDDHMGGIPARNSKGERLLLYIGIIDILQSYRFVK  
KLEHSWKALIHGDGTVSVHRPGFYAEWFQRFMCNTVFKKIPLKSPSKKL RSGSSFSQRA  
GSSGNSCITYQPLVSGEHKAQVTTKAEVEPGVHLGCPDVL PQT PPLEEISEGSPTDPDSF  
SPLVEETLQMLTTSVDNSEYMGNGDFLPTRLQAQQDAVNTVCHSKTRSNPENNVGLITLD  
NDCEVLTTLTPDTGRILSKLHTVQPKGKITFCMGIHVAHLALKHRQGNNHKIRIIAFVGN  
PVEDNEKNLVKLAKCLKKEKVNVDIINFGE EEVNTEKL TAFVNTLNGKDG TGS HLVTVP  
GPSLADALISFPILAGEGGAMMGLGASDFEFGVDPSADPELALVLRVFMEEQRQRQEEEA  
RQAAAAA AAEAGIATTGTEDSDDALLKMTISQQEFGHTGLPDLSSMTEEEKIVCAMQMSL  
QGAEFGLAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNEAIRNA  
VGSLASQATKDSKKDKKEEDKK

>sp|Q9BZ72|PITM2\_HUMAN Membrane-associated phosphatidylinositol transfer protein 2  
OS=Homo sapiens GN=PITPM2 PE=1 SV=1

MI IKEYRIPLMTVEEYRIAQLYMIQKKS RNETYGE GSGVEILENRPYTDGPGGSGQYTH  
KVYHVMHIPS WFRSILPKAALRVVEESWNAYPYTRTRFTCPFVEKFSIDIETFYKTDAG  
ENPDVFNLS PVEKNQLTIDFIDIVKDPVPHNEYKTEEDPKLFQSTKTQRGPLSENWIEEY  
KKQVFPIMCAYKLCKVEFRYWGMSKIERFIHDTGLRRVMVRAHRQAWCWQDEWYGLSME  
NIRELEKEAQLMSRKMAQFNEDGEEATELVKHEAVSDQTSGEPEPSSSSNGEPLVGRGL  
KKQWSTSSKSSSRSGKRGASPSRHSISEWRMQSIARDSDESSDDEFDAHEDLSDTEEMFP  
KDITKWSSNDLMDKIESPEPEDTQDGLYRQGAPEFRVASSVEQLNIIEDVVSQPLAAPP  
KIHVLLLVLHGGTILDTGAGDPSSKKGDANTIANVFDTVMRVHYPSALGRLAIRLVPCPP  
VCSDAFALVSNLSPYSHDEGLSSSQDHIPLAALPLLATSSPQYQEA VATVIQRANLAYG  
DFIKSQEGMTFNGQVCLIGDCVGGILAFDALCYSNQPVSESQSSSRG SVVSMQDNDLLS  
PGILMNAAHCCGGGGGGGGGGSSGGGGSSGSSLESSRHLRSNVDIPRNGTEDPKRQ  
LPRKRSDSSTYELDTIQHQAF LSS LHASVLRTEPCSRHSSSSTMLDGTGALGRDFEIT  
DLFLFGCPLGLVLALRKTVIPALDVFQLRPACQQVYNLFHPADPSASRLEPLLERRFHAL  
PPFSVPRYQRYPLGDGCSTLLADV LQTHNAAFQEHGAPSSPGTAPASRGFRRASEISIAS  
QVSGMAESYTASSIAQKAPDALSHTPSVRRLSLLALPAPSPTTPGPHPPARKASPLGERA  
PGLPELDIGEVA AKWWGQKRIDYALYCPDALTAFTVALPHLFHASYWESTDVVSFLLRQ

VMRHDNSSILELDGKEVSVFTPSKPREKWQRKRTHVKLRNVTANHRINDALANEDGPQVL  
TGRFMYGPLDMVTLTGEKVDVHIMTQPPSGEWLYLDTLVTNNSGRVSYTIPESHRLGVGV  
YPIKMVVRGDHTFADSYITVLPKGTEFVVSIDGSFAASVSIMGSDPKVRAGAVDVVRHW  
QDLGYLIITYVTGRPDMQKQRVVAWLAQHNFPHGVSFCGLVHDPLRHKANFLKLLISEL  
HLRVHAAYGSTKDVAVYSAISLSPMQIYIVGRPTKKLQQQCQFITDGYAAHLAQLKYSHR  
ARPARNTATRMALRKGSFGLPGQGDFLRSRNHLLRTISAQPSGSPSHRHERTQSQADGEQR  
GQRSMVAAGCWGRAMTGRLEPGAAAAGPK

>sp|Q9BZ71|PITM3\_HUMAN Membrane-associated phosphatidylinositol transfer protein 3  
OS=Homo sapiens GN=PITNM3 PE=1 SV=2

MAKAGRAGGPPPGGGAPWHLRNVLSDSVESSDDEFFDAREEMAEGKNAILIGMSQWNSND  
LVEQIETMGKLDDEHQEGTAPCTSSILQEKQRELYRVSLRRQRFPAQGSIEIHEDSEEGC  
PQRSCKTHVLLLVLHGGNILDGTAGDPSCAADIHTFSSVLEKVTTRAHFPAALGHILIKF  
VPCPAICSEAFSLVSHLNPYSHDEGLSSSQDHVPLAALPLLAISSPQYQDAVATVIERA  
NQVYREFLKSSDGI GFSGQVCLIGDCVGGLLAFDAICYSAGPSGDSPASSSRKGSISSTQ  
DTPVAVEEDCSLASSKRLSKSNIDISSGLEDEEPPKRPLPRKQSDSSTYDCEAITQHHAFL  
SSIHSSVLKDESETPAAGGPQLPEVSLGRFDFDVSDFFLFGSPLGLVLAMRRTVLPGLDG  
FQVRPACSQVYSFFHCADPSASRLEPLLEPKFHLVPPVSVPRYQRFPLGDGQSLLLADAL  
HTHSPLFLEGSSRDSPLLDAPASPPQASRFQRPGRRMSEGSSHSESSSDSMAPVGAS  
RITAKWWGSKRIDYALYCPDVLTAFTVALPHLFHASYWESTDVVAFILRQVMRYESVNI  
KESARLDPAALSPANPREKWLRKRTQVKLRNVTANHRANDVIAAEDGPQVLVGRFMYGPL  
DMVALTGEKVDILVMAEPSSGRWVHLDTEITNSSGRITYNVPRPRRLGVGVYPVKMVVRG  
DQTCAMSYLTVLPRGMECVVFSIDGSFAASVSIMGSDPKVRPGAVDVVRHWQDLGYMILY  
ITGRPDMQKQRVVSWLSQHNFQGMIFFSGLVHDPLRQKAI FLRNLMQECFIKISAAYG  
STKDISVYSVLGLPASQIFIVGRPTKKYQTQCQFLSEGYAAHLAALEASHRSRPKKNSR  
MILRKGSFGLHAQPEFLRKRNLRTMSVQQPDPPAANPKPERAQSQPESDKDHERPLPA  
LSWARGPPKFESVP

>sp|Q8NG27|PJA1\_HUMAN E3 ubiquitin-protein ligase Praja-1 OS=Homo sapiens GN=PJA1 PE=1  
SV=2

MGQESSKPVPWNPTGGYQSNTGRRYGRRHAYVSFRPPTSQRERIASQRKTNSEVPMHRSA  
PSQTTKRSRSPFSTTRRSWDDSESSGTNLNIDNEDYSRYPPREYRASGSRRGMAYGHIDS  
YGADDEEEGAGPVERPPVRGKTGKFDDKLYDPEKGARSLAGPPPHFSSFSRDVREERD  
KLDVPVPAARCSASRADFLPQSSVASQSSSEGKLATKGDSSERERREQNLPARPSRAPVSI  
CGGGENTSKSAEEPVRPKIRNLASPNCVKPKIFFD TDDDDMPHSTSRWRDTANDNEGH  
SDGLARRRGRESSGYPEPKYPEDKREARSDQVKPEKVPRRRRTMADPDFWTHSDDYKY  
CDESDSDKEWIAALRRKYRSREQTLSSGESWETLPGKEEREPPQAKVSASTGTSPGPG  
ASASAGAGAGASAGSNGSNYLEEVREPSLQEEQASLEEGEIPWLQYHENDSSSEGDNDSG  
HELMQPGVFMLDGNNLEDDSSVSEDLEVDWSLFDGADGLGVAE AISYVDPQFLTYMAL  
EERLAQAMETALAHLES LAVDVEVANPPASKESIDALPEILVTE DHGAVGQEMCCPICCS  
EYVKGEVATELPCHHYFHKPCVSIWLQKSGTCPVCRCMFPPPL

>sp|Q9H4M7|PKHA4\_HUMAN Pleckstrin homology domain-containing family A member 4 OS=Homo  
sapiens GN=PLEKHA4 PE=1 SV=2

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LHKQDSSGLRLWRRWFVLSGHCLFYKDSREESVLGSVLLPSYNIRPDGPGAPRGRFT  
FTAHPGMRTYVLAADTLEDLRGWL RALGRASRAEGDDYGQPRSPARPQPGE GPGGPGGP

PEVSRGEEGRISSEPEVTRLRGRGRPRLLTPSPTTDLHSLQMRRARSPDLFTPLSRPP  
SPLSLPRPRSAPARRPPAPSGDTAPPARPHTPLSRIDVRPPLDWGPQRQTLSRPPTPRRG  
PPSEAGGGKPPRSPQHWSQEPRTQAHSGSPTYLQLPPRPPGTRASMVLLPGPPLESTFHQ  
SLETDTLLTKLCGQDRLLRRLQEEIDQKQEEKEQLEAALELTRQQLGQATREAGAPGRAW  
GRQRLLQDRLVSVRATLCHLTQERERVWDTYSGLEQELGTLRETLEYLLHLGSPQDRVSA  
QQQLWMVEDTLAGLGGPQKPPPHTEPDSPSPVLQGEESSERESLPESLELSSPRSPETDW  
GRPPGGDKDLASPHLGLGSPRVSASSPEGRHLPSPQLGTAKAPVARPRMSAQEQLERMRR  
NQECGRPFPRPTSPRLLTLGRTLSPARRQPDVEQRPVVGHSQAQKWLSSGSWSSPRNTT  
PYLPTSEGHRERVLSSLQALATEASQWHRMMTGGNLDSQGDPLPGVPLPPSDPTRQETPP  
PRSPPVANSGSTGFSRRGSGRGGGPTPWGPAWDAGIAPPVLPQDEGAWPLRVTLQSSSF

>sp|Q96JA3|PKHA8\_HUMAN Pleckstrin homology domain-containing family A member 8 OS=Homo sapiens GN=PLEKHA8 PE=1 SV=3

MEGVLYKWTNYLSGWQPRWFLLCGGILSYDSPAEDAWKGCKGSIQMAVCEIQVHSVDNTR  
MDLIIPGEQYFYLKARSVAERQRWLVALGSAKACLTDSRTQKEKEFAENTENLTKMSEL  
RLYCDLLVQQVDKTEVTTTGVSNSEEGIDVGTLKSTCNTFLKTLEECMQIANAAFTSE  
LLYRTPPGSPQLAMLKSSKMKHPIIPIHNSLERQMELSTCENGSLNMEINGEEEILMKNK  
NSLYLKSAEIDCSISSEENTDDNITVQGEIRKEDGMENLNKNDNLTQSGSDSSCSPECL  
WEEGKEVIPTFFSTMNTSFSIDIELLEDGIPTEAFLASCYAVVPVLDKLGPTVFAPVKMD  
LVGNIKKVNQKYITNKEEFTTLQKIVLHEVEADVAQVRNSATEALLWLKRGLKFLKGFLT  
EVKNGEKDIQTALNNAYGKTLRQHHGWVVRGVFALALRAAPSYEDFVAALTVKEGDHQKE  
AFSIGMQRDLSLYLPAMEKQLAILDTLYEVHGLSEDEVV

>sp|Q9ULL1|PKHG1\_HUMAN Pleckstrin homology domain-containing family G member 1 OS=Homo sapiens GN=PLEKHG1 PE=1 SV=2

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PFSSSELQRDNPATGQQNADEGSEPPRAQWRVDSNGAPKTIADSATSPKLLYVDRVVQE  
ILETERTYVQDLKSIVEDYLDICIRDQTKLPLGTEERSALFGNIQDIYHFNSELLQDLENC  
ENDPVIAIECFVSKSEEFHIYTYCTNYPRSAVLTECMRNKILAKFFRERQETLKHSLP  
LGSYLLKPVRILKYHLLLHEIENHLDKDTEGYDVVLDAIDTMQRVAWHINDMKRKHEHA  
VRLQEIQSLLTNWKGPDLSYGELVLEGTFRIRQAKNERTLFLFDKLLITKKRDDTFTY  
KAHILCGNLMLVEVIPKEPLSFSVFHYKNPKLQHTVQAKSQQDKRLWVLHLKRLILENHA  
AKIPAKAKQAILEMDAIHHPGFCYSPEGTKALFGSKEGSAPYRLRRKSEPSSRSCHKVLK  
TSETAQDIQKVSREEGSPQLSSARPSAQRNSQPSSSTMISVLRAGGALRNIWTDHQIRQ  
ALFPSRRSPQENEDDEDDYQMFVPSFSSSDLNSTRLCDSTSSRPCSWMHGMESTETSS  
SGHRIVRRASSAGESNTCPPEIGTSDRTRELQNSPKTEGQEEMTPFGSSIETIDIDHV  
YDNISYEDLKLMAKREEAESTPSKSARDSVRPKSTPELAFTKRQAGHSKGSLYAQTDGT  
LSGGEASSQSTHELQAVEENIYDTIGLPDPPSLGFKCSSLKRAKRSTFLGLEADFVCCDS  
LRPFVSQDSLQLSEDEAPYHQATPDHGYLSLLYDSPSGNLSMPHKPVSDKLSEEVDEIWN  
DLENIYKKNEDKARDRLAAFPVSKDDVPDRLHAESTPELSRDVGRSVSTLSLPESQALL  
TPVKS RAGRASRANCPFEEDLISKEGSFMSLNRLSLASEMPLMDNPYDLANSGLSQTDP  
NPD LGMEATDKTKSRVFMARQYSQKIKKANQLLKVKSLLELEQPPASQHQKSMHKDLAAI  
LEEKKGQGAIGARIAEYSQLYDQIVFRESPLKIQKDGWASPQESSLLRSVSPSQVHHGS  
GDWLLHSTYSNGELADFCLPPEQDLRSRYPTFEINTKSTPRQLSAACSVPSLQTS DPLPG  
SVQRCSVVVSQPNKENWCQDHLVNSLGRKGISAKSQPYHRSQSSSSVLINKSMDSINYP  
S DVGKQQLSLHRSSRCESHQDLLPDIADSHQQGTEKLSDLTLQDSQKVVVVNRNLP LNAQ

IATQNYFSNFKETDGEDDYVEIKSEEDSELELSHNRKRKSDSKFVDADFSDNVCSGNT  
LHLSNSPRTPKKPVNSKLGSPYLTPYNSDKLNDYLWRGSPSNQQNIVQSLREKFQCLS  
SSSFA

>sp|Q6ZR37|PKHG7\_HUMAN Pleckstrin homology domain-containing family G member 7 OS=Homo  
sapiens GN=PLEKHG7 PE=2 SV=1

MIFMNTLRYLQTHEYLLDVLWRLFANLEELTQTSLGFVNSLFGIIKDYVDASEISSSLD  
FISVLTKYFRGSLCQSHQTYCLNYSAAIFYLESRLQRDDFGIYWKWCEQNEQCRRLHVPE  
LLVAPLQRLTRYPLLLKNIWKRSMDSAEKIMIYSIKEKVEKSIRDLEGKVKWLDNFQKFR  
YLQEIIVWPPLWDRDKRFFIPECLKHIFKEHMAENILSPTSRLHYEGKLTAESTRFLD  
VYLFLFNDLFLVTKTKCNKKLGGSDPGLMCPSLTPELQAVIKEGGSCTVLDQPIPLDRL  
VVKSIEPLHVSFGLRNAFLIQHENRYRQCIAAFLQAQTENIKKTWMAQITTAISCFTK  
SQETKKISLFTLPAESSEI

>sp|Q9ULM0|PKHH1\_HUMAN Pleckstrin homology domain-containing family H member 1 OS=Homo  
sapiens GN=PLEKHH1 PE=2 SV=2

MAELKVEAPASVDWQKRCLTLETQLFRFRLQASKIRELLADKMQELEQRLLAEQRAENA  
ETQVGVMEEKVKLSNLKNVDSEGLHRKYQELLKAIKGKDELISQLEAQLEKQKQMRAGE  
AKTVQEKAARIKEWTLKLAKLEMENQHLKSHNQRLVEQVGSQDALEAIQIAPSRKLLV  
PPYGAAEQDSVPSEPGIQPMGQDSGSAQGLKAAVLAPSPGALQSKDSVSEAASPLEDSS  
SSTVHSGETVEAKPLQPHLGRESPPHQPCMKLITFRCSASWGEGLVTAQRGMLPGTKTS  
AREGGPGSSLTLPKVRAPGTPRDSIQLAKRHHSQPQVGHGHFGRVNIETEAFAHPSG  
LPELESRRARSREEPEKMEMEPPAGKNEERESPKALGALEEEVELGNKPPTPLHQFSS  
WESRIYAVATSGMRLSDMSPRSNTACCASSPPALVSPGSFSGLVYKNVTVPVYTALKGRA  
TQISNMPFMDESSGDDDCSSQASFRISVPSSERKTSGLGSPRAIKRGVSMSSLSSEG  
YAIPDACSLDSDYSEPEHLQRTSSYSTDGLGLGGESLEKSGYLLKMGQVKTWKRRWF  
VLRQGGIMYYKSPSDVIRKPPQGQVDLNSRCQIVRGEQSQTFLISEKTTYLTADSPSLL  
EEWIRVLQSLLVQATGPPALLRGGTKPTVKGWLTKVKHGHKVVWCALVGKIFYYYRSH  
EDKRPLGCLPVRDAHIEEVDRCSDSEDEYAGGTRRLSSHCTLV IHPTEHSPTYLLIGT  
KHEKDTWLYHLTVAAGSSAKVGTAYEQLIGKLMDEGDPDSPLWRHPMLCYSKDGLYAS  
LTTLPSEALQTEALKLFKSCQLFINVPVEAASVDYHVSLAQ TALQVCLVHPELQSEIYCQ  
LMKQTSRPPQKYSLMQCWQLLALCAPLFLPQHFLWYVKQQLQRHADPRSETGQYATYC  
QRAVERTLRTGEREARPSRMEVVSILLRNPFFHSLPFSIPVHFTNGTYHVVGFDGSSTVD  
EFLQRLNQEIGMRKPSHSGFALFTDDPSGRDLEHCLQGSVKICDAISKWEQAMKELHPGK  
SEGGTRVVKLMYKNRLYFRSQVKGETDRERLLASQTSREIVAGRFPINKELALEMAALM  
AQVEYGDLEKPALPGPGGTSPAKAQHLLQQVLDRLFHPRRYRHGAPAEQLRHLADMLTTKW  
ATLQGCSPPECIRIYLTVARKWPFPGAKLFAAQPAQLSSKENALVWIAVNEDGVSILDHN  
TMQVHITYPYSSVTTFGGCRDDFMLVIRSIPDKSSGKSHIEKLIFRMAAPKIAEATFIMA  
SYMNHCTTTVNPTNPPGACQLWELDGRQFFSSVSCATKGPTLL

>sp|Q6ZWE6|PKHM3\_HUMAN Pleckstrin homology domain-containing family M member 3 OS=Homo  
sapiens GN=PLEKHM3 PE=2 SV=2

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RNVTSLGKGGMIWDHCKSRLLLETKAQNVFPAKEQFMVQRGTTPDNLSWMEQKEASTFNFF  
NICQRRRDRPRSNDLLDETSTFKPGHARSRSIDITQVDWRVVLKTTPLQQQQQQQLLQG  
PHVTRPSFLLSPNKIEDAQNTEHKQTFPNILKKGYLEIRKDHDSYWQSCYAELSPYNL  
YFYSLDSSGNQNLATYQLSHFQSSISVLGNLEARMVDTVLYDNTQLQLKAESPWEALDWG

QKLWEVVHAAVPGYMGRQNELTISPGLGHDDYTQNH SFQKKTSGLLPPSPVLDSSKQYQ  
NILKSGTLYRLTVQNNWKAFTFVLSRAYLMAFQPGKLEDEPLL SYNVDVCLAVQMDNLDG  
CDSCFQVIFPQDVLRLRAETRQRAQEWMEALKIAANVARSSQN LQVTLRNKPKDQMGGH  
ELRKNKRQSVTTSFLSILTTL SLERGLTAQSFKCAGCQRSIGLSNGKAKVCNYSGWYYCS  
SCHVDDSF LIPARIVHNWDT SKYKVSQAKEFLEYVYEEPLIDIQQENAMLYHHAEP LAA  
VLRLRQRLKSLRAYLFSCRAA VAEDLRRRIFPREYLLQQIHL YSLADLQQVIEGKLAPFL  
GKVIKFATSHVYSCSLCSQKGFICEICNNGEILYPFEDISTSRCE SCGAVFHSECKEKS  
VPCPRCVRRELQKKQKSFQRLNMDESLEEACTMFELSYQNT

>sp|Q53GL0|PKH01\_HUMAN Pleckstrin homology domain-containing family 0 member 1 OS=Homo sapiens GN=PLEKH01 PE=1 SV=2

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KDEKNIQEVFDLSYIEKCEELRKSRSRKNH SKFTLAHSKQPGNTAPNLI FLAVSPEEK  
ESWINALNSAITRAKNRILDEV TVEEDSYLAHPTRDRAKI QHSRRPPTRGHLM AVASTST  
SDGMLTLDLIQEEDSPSPEEPTSCAESFRVDLDK SVAQLAGSRRRADSDRIQPSADRASSL  
SRPWEKTDKGATYTPQAPKKLTPT EKGRCASLEEILSQRDAASARTLQLRAEEPPTPALP  
NPGQLSRIQDLVARKLEETQELLA EVQGLGDGKRKAKDPPRSPDSESEQLLLETERLLG  
EASSNWSQAKRVLQEVREL RDLRQMDLQTPD SHLRQTTPHSQYRKSLM

>sp|Q16512|PKN1\_HUMAN Serine/threonine-protein kinase N1 OS=Homo sapiens GN=PKN1 PE=1 SV=2

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLR  
RATTDLGRSLGPVELLLRGSSRRLLDHQQLQELHAHVLPDPAATHDGPQSPGAGGPTC  
SATNLSRVAGLEKQLAIELKVKQGAENMIQTY SNGSTKDRKLLLTAQQMLQDSKTKIDII  
RMQLRRALQAGQLENQAAPDDTQGS PDLGAVELRIEELRHHFRVEHAVAEGAKNVLRLLS  
AAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF  
STRLAGPFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTPDSRPPF  
LSRPARGLYSRSGLSGRSSLKAEAE NTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFT  
LELERARELELAVFWRDQRGLCAL KFLKLEDFLDNERHEVQLDMEPQGCLVAEVTFRNPV  
IERIPRLRRQKKIFSKQGGKAFQ RARQMNI DVATWVRLRLRIPNATGTGTFS PGASPGS  
EARTTGDISVEKLNLTGDS DSPQKSSRDPPSSPSSLSP IQESTAPELPSETQETPGPA  
LCSPLRKSPLTLEDFKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESL  
MCEKRILAAVTSAGHPFLVNLFGCFQTPEHVC FVMEYSAGGDLMLHIHSDVFSEPRIFY  
SACVVLGLQLFHEHKIVYRDLKLDNLLDTEGYVKIADFG LCKEGMGYGDRTSTFCGTPE  
FLAPEVLTDSYTRAVDWWGLGVLLYEMLVGESPFPGDDEEEVFDSIVNDEVRYPRFLSA  
EAIGIMRRLRRNPERRLGSSERDAEDVKKQPF FRTLGEALLARRLPPPFVPTLSGRTD  
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

>sp|Q96KN3|PKNX2\_HUMAN Homeobox protein PKNX2 OS=Homo sapiens GN=PKNX2 PE=2 SV=2

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IDPQAQLEADKRAVYRHLFPLLTLLFEKCEQATQGSECITSASFVDVDIENFVHQEQEH  
KPPFSDDPELDNLMVKAIQVLR IHLLELEKVNELCKDFCNRYITCLKTKMHS DNLLRNDL  
GGPYSNPQPSINLHSQDLLQNSPNSMSGVSNNPQGIVVPASALQQGNIAMTTVNSQVVSG  
GALYQPVMTVTSQGQVVTQAIPQGAIQIQTQVNLDTSLLDNEDKKS KNKRGVLPKHAT  
NIMRSWLFQHLMPHYPTED EKRQIAAQTNLTLLQVNNWFINARRILQPMLDASNPD PAP  
KAKKIKSQHRPTQRFPNSIAAGVLQQGGAPGTNP DGSINLDNLQSLSSDSATMAMQQA  
MMAAHDDSLDGTEEEDEDEMEEEEEEEEEEVDELQTTNVSDLGLEHSDSLE



>sp|Q99959|PKP2\_HUMAN Plakophilin-2 OS=Homo sapiens GN=PKP2 PE=1 SV=2

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GRWGRGTAQYSSQKSVEERSLRHPLRRLEISPDSSPERAHYTHSDYQYSQRSQAGHTLHH  
QESRRAALLVPPRYARSEIVGVSAGTTSRQRHFDTYHRQYQHGSVSDTVFDSIPANPAL  
LTYPRPGTSRSMGNLLEKENYLTAGLTVGQVRPLVPLQPVTQNRASRSSWHQSSFHSTRT  
LREAGPSVAVDSSGRRAHLTVGQAAAGSGNLLTERSTFTDSQLGNADMENTLERAVSML  
EADHMLPSRISAAATFIQHECFQKSEARKRVNQLRGILKLLQLLKVNEDVQRAVCGALR  
NLVFEDNDNKLEVAELNGVPRLLQVLKQTRDLETKKQITDHTVNLRSRNGWPGAVAHACN  
PSTLGGQGGRITRSGVRDQPDQHGLLWNLSSNDKLNLMITEALLTLTENIIPFSGWPE  
GDYPKANGLLDFDIFYNVTGCLRNMSAGADGRKAMRRCDGLIDSLVHYVRGTIADYQPD  
DKATENCVCILHNLSYQLEAELPEKYSQNIYIQNRNIQTDNNKSIGCFGSRSRKVKEQYQ  
DVPMPEEKSNPKGVEWLWHSIVIRMYLSLIAKSVRNYTQEASLGALQNLTAGSGPMPTSV  
AQTVVQKESGLQHTRKMLHVGDPVSKKTAISLLRNLSRNLSLQNEIAKETLPDLVSIIPD  
TVPSTDLLIETTASACYTLNNI IQNSYQNARDLLNTGGIQKIMASAGDAYASNKASKAA  
SVLLYSLWAHTELHHAYKKAQFKKTD FVNSRTAKAYHSLKD

>sp|Q99569|PKP4\_HUMAN Plakophilin-4 OS=Homo sapiens GN=PKP4 PE=1 SV=2

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IVASQLERCRLGAESPSTASTSTEKSFPWRSTDVPNTGVSKPRVSDAVQPNNYLIRTEP  
EQGTLYSPEQTSLHESEGLGNSRSTQMNSYSDSGYQEAGSFHNSQNVSKADNRQQHSF  
IGSTNNHVVRNSRAEGQTLVQPSVANRAMRRVSSVPSRAQSPSYVISTGVSPSRGSLRTS  
LGSGFGSPSVTDPRPLNPSAYSSTTLPAARAASPYQRPASPTAIRRIGSVTSRQTSNPN  
GTPPQYQTTARVGSPLTLTDAQTRVASPSQGQVGSSSPKRSGMTAVPQHLGPSLQRTVHD  
MEQFGQQQYDIYERMVPPRPDSLTLGRSSYASQHSQGLQDLRSVSPDLHITPIYEGRTY  
YSPVYRSPNHGTVELQGSQTALYRTGSGVIGNLQRTSSQRSTLTQYQRNNYALNTTATYAE  
PYRPIQYRVQECNYNRLQHAVPADDGTTRSPSIDSIQKDPREFAWRDPELPEVIHMLQH  
FPSVQANAAAYLQHLCFGDNKVKMEVCRLGGIKHLVDLLDHRVLEVQKNACGALRNLVFG  
KSTDENKIAMKNVGGIPALLRLLRKSIDAEVRELVTGVLWNLSSCDVAKMTIIRDALSTL  
TNTVIVPHSGWNNSSFDDDHKIKFQTSVLRLNTTGCLRNLSAGEEARKQMRSCGLVDS  
LLYV IHTCVNTSDYDSKTVENCVCTLRNLSYRLELEVPQARLLGLNELDDLKGESPSKD  
SEPSCWGKKKKKKRTPQEDQWDVGPIPLGSKSPKGVEMLWHPSVVKPYLTLLAESSNP  
ATLEGSAGSLQNL SAGNWKFAAYIRAARKEKGLPILVELLRMDNDRVSSVATALRNMA  
LDVRNKELIGKYAMRDLVNRLPGNGPSVLSDETMAAICCALHEVTSKNMENAKALADSG  
GIEKLVNITKGRGDRSSLKVVKAAQVLNTLWQYRDLRSIYKKDGNQNHFITPVSTLER  
DRFKSHPSLSTTNQMSPIIQSVGSTSSPALLGIRDPRSEYDRTQPPMQYNSQGDATH  
KGLYPGSSKPSPIYISSYSSPAREQNRRLQHQQLYYSQDDSNRKNFDAYRLYLQSPHSYE  
DPYFDDRVRHFPASTDYSTQYGLKSTTNYVDFYSTKRPSYRAEQYPGSPDSWV

>sp|Q9H875|PKRI1\_HUMAN PRKR-interacting protein 1 OS=Homo sapiens GN=PRKRIP1 PE=1 SV=1

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PEFVRDVMGSSAGAGSGEFHVYRHLRRREYQRQDYMDAMAEKQKLDAEFQKRLKKNIAA  
EEQTAKRRKKRQKLKEKKLLAKKMKLEQKKQEGPGQPKEQGSSSSAEASGTEEEEEEVPSF  
TMGR

>sp|A1L4L8|PL8L1\_HUMAN PLAC8-like protein 1 OS=Homo sapiens GN=PLAC8L1 PE=2 SV=1

MNWFGSNFFRCPEDLSLLNIYSPLL SHMSSDEHFI SNLRGHVPASAVVKQPVRGASGRT

TITAIVQTGGGWSTGLFSVCRDRRICFCGLFCPMCLECDIARHYGECLCWPLLPGSTFAL  
RIGTRERHKIQGTLCEDWLAVHCCWAFSICQVARELKMRTSQVYEICAVPMTKDTLV

>sp|000469|PLOD2\_HUMAN Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 OS=Homo sapiens  
GN=PLOD2 PE=1 SV=2

MGGCTVKPQLLLLALVLHPWNPCLGADSEKPSSIPTDKLLVITVATKESDGFHRFMQSAK  
YFNYTVKVLGGQEEWRGGDGINSIGGGQKVRMLKEVMEHYADQDDLVMFTECFDVFIFAG  
GPPEVLKKFKANHKVVFADGILWPDKRLADKYPVVHIGKRYLNSGGFIGYAPYVNRIV  
QQWNLQDNDQDLFYTKVYIDPLKREAINITLDHKCKIFQTLNGAVDEVVLKFENGKARA  
KNTFYETLPVAINGNPTKILLNYFGNYVPNSWTQDNGCTLCEFDTVDLASVDVHPNVSI  
GVFIEQPTPFLPRFLDILLTDYPKEALKLFIHNKEVYHEKD IKVFFDKAKHEIKTIKIV  
GPEENLSQAEARNMGMDFCRQDEKCDYFSDADVLTNPRTLKILIEQNRKIIAPLVTR  
HGKLWSNFWGALSPDGYARSEYVDIVQGNRVGVWNPYMANVYLKIGKTLRSEMNERN  
YFVRDKLDPDMALCRNAREMGVFMYISNRHEFGRLSTANYNTSHYNNDLWQIFENPVDW  
KEKYINRDYSKIFTENIVEQPCPDVFWFPIFSEKACDELVEEMHYGKWSGGKHHSRIS  
GGYENVPTDDIHMKQVDLENVWLHFIREFIAPVTLKVFAGYTKGFALLNFVVKYSPERQ  
RSLRPHHDASTFTINIALNNVGEDFQGGGCKFLRYNCSIESPRKGWSFMHPGRLTHLHEG  
LPVKNGTRYIAVSFIDP

>sp|Q8N8W4|PLPL1\_HUMAN Patatin-like phospholipase domain-containing protein 1 OS=Homo  
sapiens GN=PNPLA1 PE=1 SV=3

MEEQVFKGDPDTPHSISFSGSGFLSFYQAGAVDALRDLAPRMLETahrFAGTSAGAVIAA  
LAICGIEMDEYLRLNVGVAEVKKSFLGPLSPCKMVQMMRQFLYRVLPEDSYKVTGKL  
HVSLTRLTDGENVVSEFTSKEELIEALYCSCFVPVYCGLIPTTYRGVRYIDGGFTGMQP  
CAFWTDAITISTFSGQQDICPRDCAIFHDFRMFNCSFQFSLENIARMTHALFPPDLVIL  
HDYYYYRGYEDAVLYLRLNAVYLNSSSKRVIFPRVEVYCQIELALGNECPERSQPSLRAR  
QASLEGATQPHKEWVPKGDGRGSHGPPVSQPVQTLFTCESPVSAVSPLEQPPAQPLAS  
STPLSLSGMPPVSFPAVHKPPSSTPGSSLPTPPPGLSPLSPQQVQPSGSPARSLHSQAP  
TSPRPSLGPSTVGAPQTLPRSSLSAFPAQPPVEELGQEQPQAVALLVSSKPKSAVPLVHV  
KETVSKPYVTESPAEDSNWVNKVFKNKQKTSKTRKGFPRHSGSKPKSSKVQ

>sp|Q9NST1|PLPL3\_HUMAN Patatin-like phospholipase domain-containing protein 3 OS=Homo  
sapiens GN=PNPLA3 PE=1 SV=2

MYDAERGWSLSFAGCGFLGFYHVGATRCLSEHAPHLLRDARMLFGASAGALHCVGLSGI  
PLEQTLQVLSDLVRKARSRNIGIFHPSFNLSKFLRQGLCKCLPANVHQLISGKIGISLTR  
VSDGENVLVSDFRSKDEVVDALVCSCFIPFYSGLIPPSFRGVRYVDGGVSDNVPFIDAKT  
TITVSPFYGEYDICKPKVSTNFLHVDITKLSLRLCTGNLYLLSRAFPDPLKVLGEICLR  
GYLDAFRFLEEKICNRQPGLKSSSEGMDPEVAMPSWANMSLDSSPESAAAVRLEGDE  
LLDHLRLSILPWDESILDTLSPRLATALSEEMKDKGGYMSKICNLLPIRIMSYVMLPCTL  
PVESAIAIVQLVTWLPDMPDDVLWLQWVTSQVFTRVLMCLLPASRSQMPVSSQQASPCT  
PEQDWPCWTPCSPKGCPAETKAEATPRSILRSSLNFFLGKVPAGAEGLSTFPSFSLEKS  
L

>sp|Q8IY17|PLPL6\_HUMAN Neuropathy target esterase OS=Homo sapiens GN=PNPLA6 PE=1 SV=2

MGTSSHGLATNSSGAKVAERDGFQDVLAPGEGSAGRICGAQPVFPVQVLGVMIGAGVAV  
VVTAVLILLVVRRLRVKTPAPDGPYRFRKRDKVLFYGRKIMRKVSQSTSSLVDTSVSA  
TSRPRMRKKLKMLNIAKKILRIQKETPTLQRKEPPPAVLEADLTEGDLANSHPSEVLYM  
LKNVRVLGHFEKPLFLELCRHMVFQRLGQGDYVFRPGQPDASIYVVQDGLLELCLPGPDG

KECVVKEVVPGDSVNSLLSILDVITGHQHPQRTVSARAARDSTVLRLPVEAFSAVFTKYP  
ESLVRVVQIIMVRLQRVTFLLALHNYLGLTNELFSHEIQPLRLFPSPGLPTRTSPVRGSKR  
MVSTSATDEPRETPGRPPDPTGAPLPGPTGDPVKPTSLETSPAPLLSRCVSMPGDISGLQ  
GGPRSDFDMAYERGRISVSLQEEASGGSLAAPARTPTQEPREQPAGACEYSYCEDESATG  
GCPFGPYQGRQTSSIFEAAQELAKLMRIEDPSLLNSRVLLHHAKAGTIIARQGDQDVSL  
HFVLWGCLHVVYQRMIDKAEDVCLFVAQPGELVGQLAVLTGEPLIFTLRAQRDCTFLRISK  
SDFYEIMRAQPSVLSAAHTVAARMSPFVRQMDFAIDWTAVEAGRALYRQGDRSDCTYIV  
LNGRLRSVIQRGSGKKELVGEYGRGDLIGVVEALTRQPRATTVHAVRDTLAKLPEGTLG  
HIKRRYPQVVTRLIHLLSQKILGNLQQLQGPPFAGSGLGVPPHSELNTPASNLATVAILP  
VCAEVPMAFTLELQHALQAIGPTLLNSDIIRARLGASALDSIQEFRLSGWLAQQEDAH  
RIVLYQTDASLTPWTVRCLRQADCILIVGLGDQEP TLGQLEQMLENTAVRALKQLVLLHR  
EEGAGPTRTVEWLNMRSWCSGHLHLRCPRLFSRRSPAKLHELVEKVFSSRRADRHSDFSR  
LARVLTGNTIALVLGGGGARGCSHIGVLKALEEAGVPVDLVGGTSIGSFIGALYAEERSA  
SRTKQRAREWAKSMTSVLEPVLDTYPVTSMTGSAFNRSIHRVFQDKQIEDLWLPYFNV  
TTDITASAMRVHKDGLWRYVRASMTLSGYLPPLCDPKDGHLMDGGYINNLPADIARSM  
GAKTVIAIDVGSQDETDLSTYGDSLSGWWLLWKRLNPWADKVKVPDMAEIQSRLAYVSCV  
RQLEVVKSSSYCEYLRPPIIDCFKTMDFGKFDQIYDVGYQYGKAVFGGWSRGNVIEKMLTD  
RRSTDLESRRADVLAFPSGFTDLAEIVSRIEPPTSIVSDGCADGEESDCLTEYEEDAG  
PDCSRDEGGSPGASPTASEMEEESILRQRRCLQEPPGSATDA

>sp|Q9NP80|PLPL8\_HUMAN Calcium-independent phospholipase A2-gamma OS=Homo sapiens  
GN=PNPLA8 PE=1 SV=1

MSINLTVDIYIYLLSNARSVCGKQRSKQLYFLFSPKHYWRISHISLQRGFHTNIIIRCKWT  
KSEAHSCSKHCYSPSNHGLHIGILKLSTSAPKGLTKVNICMSRIKSTLNSVSKAVFGNQ  
EMISRLAQFKPSSQILRKVSDSGWLKQKNIKQAIKSLKKYSDKSAEKSPFPEEKSHIIDK  
EEDIGKRSLFHYTSSITTKFGDSFYFLSNHINSYFKRKEKMSQQKENEHFRDKSELEDKK  
VEEGKLRSPPDGI LAYKPGSESVHTVDKPTSPSAIPDVLQVSTKQSIANFLSRPTEGVQA  
LVGGYIGGLVPKLKYDSKSQSEEQEPAKTDQAVSKDRNAEEKRSLQREKIIARVSID  
NRTRALVQALRRITDPKLCITRVEELTFHLLFPEGKGVAVKERIIPYLLRLRQIKDETL  
QAAVREILALIGYDVPVKGRGIRILSIDGGGTRGVVALQTLRKLVELTQKPVHQLFDYIC  
GVSTGAILAFMLGLFHMPLDECEELYRKLGSDFVFSQNVIVGTVKMSWSHAFYDSQTWENI  
LKDRMGSALMIETARNPTCPKVAAVSTIVNRGITPKAFVFRNYGHFPGINSHYLGGCQYK  
MWQAIRASSAAPGYFAEYALGNDLHQDGGLLLNNPSALAMHECKCLWPDVPLECIVSLGT  
GRYESDVRNTVTYTSCLKLSNVINSATDTEEVHIMLDGLLPDITYFRFPVMCENIPLD  
ESRNEKLDQLQLEGLKYIERNEQKMKKVAKILSQEKTTLQKINDWIKLKTDMYEGLPFFS  
KL

>sp|Q8NBV4|PLPP7\_HUMAN Inactive phospholipid phosphatase 7 OS=Homo sapiens GN=PLPP7 PE=2  
SV=1

MPASQSRARARDNNVLNRAEFLSLNQPPKGGPEPRSSGRKASGPSAQPPPAGDGARERR  
QSQQLPEEDCMQLNPSFKGIAFNLSLAIDICMSKRLGVCAGRAASWASARSMVKLIGITG  
HGIPWIGGTILCLVKSSTLAGQEVLMNLLLALLLDIMTVAGVQKLKRRGPYETSPSLLD  
YLTMDIYAFPAHASRAAMVSKFFLSHLVLAVPLRVLLVLWALCVGLSRVMIGRHHVTDV  
LSGFVIGYLQFRLVELVWMPSSTCQMLISAW

>sp|O43660|PLRG1\_HUMAN Pleiotropic regulator 1 OS=Homo sapiens GN=PLRG1 PE=1 SV=1  
MVEEVQKHSVHTLVFRSLKRTHDMFVADNGKPVPLDEESHKRKMAIKLRNEYGPVLHMP

SKENLKEKGPQNATDSYVHKQYPANQGQVEYFVAGTHPYPPGPGVALTADTKIQRMPSE  
SAAQSLAVALPLQTKADANRTAPSGSEYRHPGASDRPQPTAMNSIVMETGNTKNSALMAK  
KAPTMPKPQWHPPWKLYRVISGHLGWVRCIAVEPGNQWFVTGSADRTIKIWDLASGKLKL  
SLTGHISTVRGVIIVSTRSPYLFSCGEDKQVKCWDLEYNKVIRHYHGHL SAVYGLDLHPTI  
DVLVTCSRDSTARIWDVVRTKASVHTLSGHTNAVATVRCQAAEQIITGSHDTTIRLWDLV  
AGKTRVTLTNHKKSVRAVVLHPRHYTFASGSPDNIKQWKFPDGSFIQNLSGHNAIINTLT  
VNSDGLVLSGADNGTMHLWDWRTGYNFQRVHAAVQPGSLDSESGIFACAFDQSESRLTA  
EADKTIKVYREDDTATEETHPVSWKPEIIKRKRF

>sp|Q9NRY7|PLS2\_HUMAN Phospholipid scramblase 2 OS=Homo sapiens GN=PLSCR2 PE=1 SV=2

MRSWNSLFCLNSSRPPGHIVYPKHQAGHTGKQADHLGSQAFYPGRQHDYLVPPAGTAGIP  
VQNQGRPEGVPWMPAPPPPLNCPPGLEYSQIDMILIHQQIELLEVLSFESSNMYEIK  
NSFGQRIYFAAEDTNFCIRNCCGRSRPFTLRITDNVGREVITLERPLRCNCCCCPCCLQE  
IEIQAPPGVPVGYVTQTWHPCLTKFTIKNQKREVDLKGPCIVCSCIAGVD FEITSLDE  
QIVVGRISKHWSGFLREAFDADNFGIQFPRDL DVKMKAVMIGACFLIDYMF FERTR

>sp|P40967|PMEL\_HUMAN Melanocyte protein PMEL OS=Homo sapiens GN=PMEL PE=1 SV=2

MDLVLKRCLLHLAVIGALLAVGATKVPRNQDWLGVSRLRTKAWNRQLYPEWTEAQRDC  
WRGGQVSLKVSNDGPTLIGANASF SIALNFPGSQKVLDPGQVIWVNNTIINGSQVWGGQP  
VYPQETDDACIFPDGGPCPSGWSQKRSFVYVWKTWGQYWQVLGGPVSGLSIGTGRAMLG  
THTMEVTYVYHRRGSRSYVPLAHSSSAFTITDQVPFSVSVSQLRALDGGNKHFLRNQPLTF  
ALQLHDPGSGYLAEDLSYTWDFGDSSGTLISRALVVHTYLEPGPVTAQVVLQAAIPLTS  
CGSSPVPGTDDGHRPTAEAPNTTAGQVPTTEVVGTTPGQAPTAEPSTTSVQVPTTEVIS  
TAPVQMPTAESTGMTPEKVPVSEVMGTTLAEMSTPEATGMTPAEVSIVVLSGTTAAQVTT  
TEWVETTARELPIPEPEGPDASSIMSTESITGSLGPLLDGTATLRLVKRQVPLDCVLYRY  
GSFSVTLDIVQGIESAEILQAVPSGEGDAFELTVSCQGGLPKEACMEISSPGCQPPAQR  
CQPVLPSPACQLVLHQILKGGSGTYCLNVSLADTNLAVVSTQLIMPGQEAGLGQVPLIV  
GILLVLMVVLASLIYRRRLMKQDFSVPLPHSSSHWLRLPRIFCSCPIGENSPLLSGQQ  
V

>sp|Q8TBY8|PMFBP\_HUMAN Polyamine-modulated factor 1-binding protein 1 OS=Homo sapiens  
GN=PMFBP1 PE=2 SV=1

MKDEAGERDREVSSLNSKLLSLQLDIKNLHDVCKRQRKTLQDNQLCMEEAMNSSHDKKQA  
QALAFESEVEFGSSKQCHLRQLQQLKKLLVLQQELEFHTTELQTSYYSLRQYQSILEK  
QTSDLVLLHHHCKLKEDEVILYEEEMGNHNENTGEKLHLAQEQLALAGDKIASLERSLNL  
YRDKYQSSLSNIELLECQVKMLQGELGGIMGQEPENKGDHRSKVRIYTSPCMIQEHQETQK  
RLSEVWQKVSQQDDLIQELRNKLACSNAVLEREKALIKLQADFASCTATHRYPPSSSEE  
CEDIKKILKHLQEQKDSQCLHVEEYQNLVKDLRVELEAVSEQKRNIMKDMMKLELDLHGL  
REETS AHERKDKDITILQCRLQELQLEFTETQKLT LKKDKFLQEKDEMLQELEKKLTQV  
QNSLLKKEKELEKQCMATELEMTVKEAKQDKSKEAECKALQAEVQKLNSLEEAKQKER  
LAGEAPAAQAAQCKEEAALAGCHLEDTRKRLQKGLLLDKQKADTIQELQRELQMLQKES  
SMAEKEQTSNRKRVEELSLELSEALRKLENSDKEKRQLKQTVAEQDMKMDMLDRIKHQH  
REQGSICKLEEDLQEATKLEEDKREQLKKSKEHEKLMEGELEALRQEFKKDKTLKENS  
RKLEENENLRAELQCCSTQLESSLNKYNTSQQVIQDLNKEIALQKESLMSLQAQLDKAL  
QKEKHLYQTTITKEAYDALSRKSAACQDDL TQALEKLNHVTSETKSLQQLTQTQEKKAAQ  
LEEEIIAYEERMKNTELRLRGFHQESELEVHAFDKLEEMSCQVLQWQKQHQNDLKM  
LAAKEEQ LREFQEEMAALKENLLEDDKEPCCLPQWSVPKDTCRLYRGNDQIMTNLEQWAK

QQKVANEKLGQLREQVKYIAKLSGEKDHLHLSVMVHLQQENKKLKEIEEKKMKAENTRL  
CTKALGPSRTESTQREKVCGLGWKGLPQDMGQRM DLTKYIGMPHCPG TSAIGQKNKCDF  
FL

>sp|Q8NA58|PNDC1\_HUMAN Poly(A)-specific ribonuclease PARN-like domain-containing protein  
1 OS=Homo sapiens GN=PNLDC1 PE=2 SV=2

MFCTRGLLFFAFLAGLDIEFTGLRSNLSGPQQISLFDLPSEWYLKTRQSVQQFTVCQIGL  
SVFSAIEGEANKYIAHSCNFYLFPTTFGILDSEFSFQASSVQFLNQYGFNYNKF LKNGIP  
YMNEEQEKKIRHDILTGNWVRVRSSPKDQIKVVIDEVRWLELAKEGDWMTLPGITGFQA  
FEVQLVLRQALPNIWTVLKDEGVVVKKVSKQHRWYLQNTSCDRESCWKENILLSARGFSV  
FFQMLVKAQKPLVGHNMMDLLHLHEKFFRPLPESYDQFKQNIHSLFPVLIDTKSVTKDI  
WKEMNFPVRVSNLSEVYEVLSNDLNPTKNSGPEIVHASRCEKYVETKCPHEAAYDAFLCGS  
VLLKVAHLLLQKIYHIDPVPESFPQYLDVLAPYVNQVNLIRAGVPKINFSGPDYPSIRP  
PILILSVKRWPGVSEQQVYHKFQNLCKFDVRRLTRSQFLLLTNKFKDARNILKEYRDHPT  
LCISLYRYWRHSPNVNCLLQVCGIVTAWALLAFILGRSGT

>sp|Q8N490|PNKD\_HUMAN Probable hydrolase PNKD OS=Homo sapiens GN=PNKD PE=1 SV=2

MAAVVAATALKGRGARNARVLRGILAGATANKASHNRTRALQSHSSPEGKEEPEPLSPEL  
EYIPRKRKGNPMKAVGLAWYSLYTRTWLGYLFYRQQRLRRARNRYPKGHSKTQPRLFNGVK  
VLPIPVLSDNYSYLIIDTQAQLAVAVDPSDPRAVQASIEKEGVTLVAILCTHKHWDHSGG  
NRDLSRRHRDCRVYGGSPQDGIPYLTHPLCHQDVVSVGRLQIRALATPGHTQGHLVYLLDG  
EPYKGPSCFLSGDLLFLSGCGRTFEGNAETMLSSLDTVLGLGDDTLLWPGHEYAEENLGF  
AGVVEPENLARERKMQWVQRQLERKGTCPSTLGEERSYNPFLRTHCLALQEALGPGPGP  
TGDDDYSRAQLLEELRRLKDMHKS

>sp|Q8ND90|PNMA1\_HUMAN Paraneoplastic antigen Mal OS=Homo sapiens GN=PNMA1 PE=1 SV=2

MAMTLEDWCRGMDVNSQRALLVWGIPVNCDEAEIEETLQAAMPQVSYRMLGRMFWREEN  
AKAALLELTGAVDYAAIPREMPGKGGVWKVLFKPPTSDAEFLERLHLFLAREGWTVDVA  
RVLGFQNPPTPGPEMPAEMLNILDNVIQPLVESIWKRLTLFSGRDIPGPGEETFDPW  
LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPAITTAECKALEQVFGSV  
ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIKDNVNQARLEQVIAGANH  
SGAIRQLWLTGAGEGPAPNLFQLLVQIREEEAKEEEEEAEATLLQLGLEGHF

>sp|Q86V59|PNML1\_HUMAN PNMA-like protein 1 OS=Homo sapiens GN=PNMAL1 PE=1 SV=2

MSKTMAMNLEDWCRGMEVDIHRSLVTGIPEDCGAEIEETLNGVLSPLGPYRVLNKIF  
VREENVKAALIEVGEVNLSTIPREFPGRGGVWRVVC RDPTQDAEFLKNLNEFLDAEGRT  
WEDVVRLLQLNHPTLSQNHQPPENWAEALGVLLGAVVQIIFCMAEIRSREEARAQEAA  
EFEEMAAWALAAGRKVKKEPGLAAEVGSALKAETPNNWNATEDQHEPTKPLVRRAGAKSR  
SRRKKQKKNRQEAVPWKKPKGINSNSTANLEDPEVGDAESMAISEPIKGSRKPCVNKEE  
LALKKPMACAWKGPPEPPQDARAEAESPGGASESDQDGGHESPPKKKAVAVWSAKNPAP  
MRKKKKVSLGPVSYVLVDSEDGRKKPVMPKKGPGSRREASDQKAPRGQQPAEATASTSRG  
PKAKPEGSPRRATNESRKV

>sp|Q9NRX1|PN01\_HUMAN RNA-binding protein PN01 OS=Homo sapiens GN=PN01 PE=1 SV=1

MESEMETQSARAEFGFTQVTRKGGRRAKKRQAEQLSAAGEGGDAGRMDTEEARPAKRPVF  
PPLCGDGLLSGKEETR KIPVPANRYTPLKENWMKIFTPIVEHLGLQIRFNLKSRNVEIRT  
CKETKDVSA LTKAADFVKAFILGFQVEDALALIRLDDLFLSF EITDVKPLKGDHLSRAI  
GRIAGKGGKTKFTIENVTRTRIVLADV KVIHLSGFQNIKMARTAI CNLILGNPPSKVYGN  
IRAVASRSADR

>sp|Q13519|PNOC\_HUMAN Prepronociceptin OS=Homo sapiens GN=PNOC PE=1 SV=1

MKVLLCDLLLLSLFSSVFSSCQRDCLTCQEKLHPALDSFDLEVCILECEEKVFPSPLWTP  
CTKVMARSSWQLSPAPEHVAALYQPRASEMQHLRRMPVRSLFQEQEEPEPGMEEAGE  
MEQKQLQKRFGGFTGARKSARKLANQKRFSEFMRQYLVLMSQSSQRRRTLHQNGNV

>sp|Q6ZV29|PLPL7\_HUMAN Patatin-like phospholipase domain-containing protein 7 OS=Homo sapiens GN=PNPLA7 PE=1 SV=3

MEEKDDSPQLTGIAVGALLALALVGVLILFMFRRLRQFRQAQPTPQYRFRKRDKVMFYG  
RKIMRKVTTLNPTLVENTALPRQRARKRTKVLSLAKRILRFKKEYPALQKEPPPSLLEA  
DLTEFDVKNSHLPSEVLVYMLKNVRVLGHFEKPLFLELCKHIVFVQLQEGEHVFQPREPDP  
SICVVQDGRLEVCIQDITDGTEVVVKEVLAGDSVHSLLSILDIITGHAAPYKTVSVRAAIP  
STILRLPAAAFHGVFEKYPETLVRVVIIMVRLQRVTFLLHNYLGLTTELFNAESQAIP  
LVSVASVAAGKAKKQVFYGEERLKKPPRLQESCSDHGGGRPAAAGPLLKRSHSVAPPS  
IRKQILEELEKPGAGDPDPSAPQGGPGSATSDLGMACDRARVFLHSDEHPGSSVASKSRK  
SVMVAEIPSTVSQHSHTDETLASRKSDAIFRAAKDLLTLMKLEDSLLDGRVALLHV  
PAGTVVSRQGDQDASILFVVSGLLHVYQRKIGSQEDTCLFLTRPGEMVGLAVLTGEPLI  
FTVKANRDCSFLSISKAHFYEIMRKQPTVVVGVAHTVVKRMSSFVRQIDFALDWVEVEAG  
RAIYRQGDKSDCTYIMLSGRLRSVIRKDDGKKRLAGEYGRGDLVGVVETLTHQARATTVH  
AVRDELAKLPAGALTSIKRRYPQVVTRLIHLLGEKILGSLQQGPVTGHQLGLPTEGSKW  
DLGNPAVNLSTVAVMPVSEEVPLTAFALELEHALSAIGPTLLLTSDNIKRRLGSAALDSV  
HEYRLSSWLGGQEDTHRIVLYQVDGTLTPWTQRCVRQADCILIVGLGDQEPTVGELERML  
ESTAVRAQKQLILLHREEGPAPARTVEWLNMRSWCSGHLHLCCPRRVFSRRSLPKLVEMY  
KHVFQRPPDRHSDFSRLARVLTGNAIALVLGGGGARGCAQVGVLKALAECPVDMVGGT  
SIGAFVGALYSEERNYSQMRIRAKQWAEGMTSLMKAALDLTYPITSMFSGAGFNSSIFSV  
FKDQQIEDLWIPYFAITTDITASAMRVHTDGSLWVYVRASMSLSGYMPPLCDPKDGHLLM  
DGGYINNLPADVARMGAKVVIADVGSRDETDLTNYGDALSGWLLWKRWNPLATKVKV  
LNMAEIQTRLAYVCCVRQLEVVKSSDYCEYLRPPIIDSYSTLDFGKFNEICEVGYQHGRTV  
FDIWGRSGVLEKMLRDQQGPSKKPASAVLTCPNASFTDLAEIVSRIEPAKAMVDDSDY  
QTEYEEELLDPDAYADFQSTSAQQGSLEDESSLRHRHPSLAFPKLSEGSSDQDG

>sp|O60733|PLPL9\_HUMAN 85/88 kDa calcium-independent phospholipase A2 OS=Homo sapiens GN=PLA2G6 PE=1 SV=2

MQFFGLRVNTFSGVTNLFSNPFRVKEVAVADYTSSDRVREEGQLILFQNTPNRTWDCVLV  
NPRNSQSGFRLFQLELEADALVNFHQYSSQLLPFYESSPQVLHTEVLQHLTDLIRNHPSW  
SVAHLAVELGIRECFHHSRIISCANCAENEEGCTPLHLACRKGDGEILVELVQYCHTQMD  
VTDYKGETVFHYAVQGDNSQVLQLLGRNAVAGLNQVNNQGLTPLHLACQLGKQEMVRVLL  
LCNARCNI MGPNGYPIHSAMKFSQKGAEMIISMDSSQIHSKDPRYGASPLHWAKNAEMA  
RMLLKRGCVNSTSSAGNTALHVAVMRNRFDAIVLLTHGANADARGEHGNTPLHLAMSK  
DNVEMIKALIVFGAEVDTPNDFGETPTFLASKIGRLVTRKAILTLLRTVGAEYCFPIHG  
VPAEQGSAAPHHPFSLERAQPPPIISLNNLELQDLMHISRARKPAFILGSMRDEKRTHDHL  
LCLDGGGVKGLIIIIQLLIAIEKASGVATKDLFDWVAGTSTGGILALAILHKSMSMAYMRGM  
YFRMKDEVFRGRSPYESGPLEEFLKREFGEHTKMTDVRKPKVMLTGTLSDRQPAELHLFR  
NYDAPETVREPRFNQNVNLRPPAQPSDQLVWRAARSSGAAPTYFRPNGRFLDGGLLANP  
TLDAMTEIHEYNDLIRKQGANKVKLSIVVSLGTGRSPQVPVTCVDVFRPSNPWELAKT  
VFGAKELGKMVVDCCDTPDGRAVDRARAWCEMVGIIQYFRLNPQLGTDIMLDEVSDTVLVN  
ALWETEVIYIEHREEFQKLIQLLSP

>sp|043688|PLPP2\_HUMAN Phospholipid phosphatase 2 OS=Homo sapiens GN=PLPP2 PE=1 SV=1  
MQRRWVFLLDVLCLLVASLPFAILTLVNAPYKRGFYCGDDSI RYPYRPDTITHGLMAGV  
TITATVILVSAGEAYLVYTDRLYSRSDFNYYAAVYKVLGTLFGAAVSQSLD LAKYMI  
GRLRPNFLAVCDPDWSRVNCSVYVQLEKVCRCGNPADVTEARLSFYSGHSSFGMYCMVFLA  
LYVQARLCWKWARLLRPTVQFFLVAFALYVG YTRVSDYKHHWSDVLVGLLQGALVAALTV  
CYISDFFKARPPQHCLKEEELERKPSLSLTLT LGADHNHYGYPHSSS

>sp|Q9NRQ2|PLS4\_HUMAN Phospholipid scramblase 4 OS=Homo sapiens GN=PLSCR4 PE=1 SV=2  
MSGVVPTAPEQPAGEMENQTKPPDPRPDAPPEYN SHFLPGPPGTAVPPPTGYPGGLPMGY  
YSPQQPSTFPLYQPVGGIHPVRYQPGKYMPNQSV PITWMPGPTPMANCPPGLEYLVLQD  
NIHVLQHFEPLEMMTCFETNNRYDIKNSDQM VYIVTEDTDDFTRNAYRTL RPFVLRVTD  
CMGREIMTMQRPFRCCTCCFCPC SARQELEVQCPPGVTIGFVAEHWNL CRAVYSIQNEKK  
ENVMVRVGPCSTYGCSDSVFEVKS LDGISNIGSIIRKWNGLLSAMADADHFDIHFPLDL  
DVKMKAMIFGACFLIDFMYFERSPPQRSR

>sp|P55058|PLTP\_HUMAN Phospholipid transfer protein OS=Homo sapiens GN=PLTP PE=1 SV=1  
MALFGALFLALLAGAHAEFPGCKIRVTSKALELVKQEGLRFLEQELETITIPDLRGKEGH  
FYYNISEVKVTELQLTSSSEDFQPPQELMLQITNASLGLRFRRQLLYWFFYDGGYINASA  
EGVSIRTGLELSRDPAGRMKVS NVSCQASVSRMHAAFGGTFKKVYDFLSTFITSGMRFL  
NQQICPVLYHAGTVLLNSLLDTPVRSSVDELVGIDYSLMKDPVASTSNLDMDFRGAFFP  
LTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLLVGDKVPHDL  
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQP  
EVQLSSMTMDARLSAKMALRGKALRTQLDLRRFRIYSNHSALSLAL IPLQAPLKTMLQI  
GVMPMLNERTWRGVQIPLPEGINFVHEVVTNHAGFLTIGADLHFAKGLREVIEKNRPADV  
RASTAPTPTAAV

>sp|075051|PLXA2\_HUMAN Plexin-A2 OS=Homo sapiens GN=PLXNA2 PE=1 SV=4  
MEQRRPWPRALEVDSRSVLLSVVWVLLAPPAAGMPQFSTFHSNRDWT FNHLTVHQGTG  
AVYVGAINRVYKLTGNLTIQVAHKTGPEEDNKSCYPPLIVQPCSEVL TLTNNVNKLLIID  
YSENRLLAGSLYQGVCKLLRLDDLFI LVEPSHKKEHYLSSVNKTGTMYGVIVRSEGEDG  
KLFIGTAVDQKQDYFPTLSSRKLPRDP ESSAML DYELHSDFVSSLIKIPSDTLALVSHFD  
IFYIYGASGGFVYFLTVPETPEGVAIN SAGDLFYTSRIVRLCKDDPKFHSYVSLPFGC  
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>sp|043157|PLXB1\_HUMAN Plexin-B1 OS=Homo sapiens GN=PLXB1 PE=1 SV=3

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NQDYVPGERTPMLEDVDEGGIRPWHLVKPSDEPEPPRPRRGSRLGGERERAKAIPEIYLT  
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>sp|Q9Y4D7|PLXD1\_HUMAN Plexin-D1 OS=Homo sapiens GN=PLXD1 PE=1 SV=3

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CYSEA

>sp|Q01453|PMP22\_HUMAN Peripheral myelin protein 22 OS=Homo sapiens GN=PMP22 PE=1 SV=1

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>sp|P54277|PMS1\_HUMAN PMS1 protein homolog 1 OS=Homo sapiens GN=PMS1 PE=1 SV=1

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>sp|Q6XQN6|PNCB\_HUMAN Nicotinate phosphoribosyltransferase OS=Homo sapiens GN=NAPRT PE=1  
SV=2

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EALARLAQEGSENVVIGIGTSVVTCPQQPSLGGVYKLVAVGGQPRMKLTEDPEKQTLPGS  
KAAFRLLGSDGSPLMDMLQLAEEPVPQAGQELRVWPPGAQEPCTVRPAQVEPLLRLCLQQ  
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>sp|Q9UL41|PNMA3\_HUMAN Paraneoplastic antigen Ma3 OS=Homo sapiens GN=PNMA3 PE=2 SV=2

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TGVGAVPLPASGNSFDVRPSQGYRRRRGRGQHRRGGVARAGSRGSRKRKRHTFCYSCGED  
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>sp|Q9NVS9|PNPO\_HUMAN Pyridoxine-5'-phosphate oxidase OS=Homo sapiens GN=PNPO PE=1 SV=1

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LDSNPFASLVFYWEPLNRQVRVEGPVKKLPEEEAE CYFHSRPKSSQIGAVVSHQSSVIPD  
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>sp|Q12796|PNRC1\_HUMAN Proline-rich nuclear receptor coactivator 1 OS=Homo sapiens  
GN=PNRC1 PE=1 SV=1

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RPSLEGGRSPATGPSGAQEVPGPAAALAPSPAAAAGTEGASPD LAPLRPAAPGQTPLRKE  
VLKSKMGKSEKIALPHGQLVHGIHLYEQPKINRQKSKYNLPLTKITSAKRNENNFWQDSV  
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>sp|Q9UQG0|POK11\_HUMAN Endogenous retrovirus group K member 11 Pol protein OS=Homo sapiens  
GN=ERVK-11 PE=2 SV=2

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>sp|P63135|POK7\_HUMAN Endogenous retrovirus group K member 7 Pol protein OS=Homo sapiens  
GN=ERVK-7 PE=3 SV=1

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>sp|Q9Y253|POLH\_HUMAN DNA polymerase eta OS=Homo sapiens GN=POLH PE=1 SV=1

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>sp|Q9UKY4|POMT2\_HUMAN Protein O-mannosyl-transferase 2 OS=Homo sapiens GN=POMT2 PE=1 SV=2

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ILLESHVMIRGNSGLKPKDNEFTSKPWHWPINQGLRFGVNDTDFRVYLLGNPVVWWL  
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>sp|Q15165|PON2\_HUMAN Serum paraoxonase/arylesterase 2 OS=Homo sapiens GN=PON2 PE=1 SV=3

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GLAFFSVGLKFPGLHSFAPDKPGGILMDLKEEKPRARELRISRGFDLASFNPHGISTFI  
DNDDTVYLFVVNHPEFKNTVEIFKFEEAENSLHLKTVKHELLPSVNDITAVGPAHFYAT  
NDHYFSDPFLKYLETYLNLHWANVVYSPNEVKVVAEGFDSANGINISPDKYIYVADIL  
AHEIHVLEKHTNMNLTQLKVLDELTDNLIDPSSGDIWVGCHPNGQKLFVYDPNNPPS  
SEVLRIQNILCEKPTVTTVYANNGSVLQGSSVASVYDGKLLIGTLYHRALYCEL

>sp|075817|POP7\_HUMAN Ribonuclease P protein subunit p20 OS=Homo sapiens GN=POP7 PE=1 SV=2

MAENREPRGAVEAELDPVEYTLRKRLPSRLPRRPNDIYVNMKTDFKAQLARCQKLLDGGA  
RGQNACSEIYIHGLGLAINRAINIALQLQAGSFGSLQVAANTSTVELVDELEPETDTREP  
LTRIRNNSAIHIRVFRVTPK

>sp|A5A3E0|POTEF\_HUMAN POTE ankyrin domain family member F OS=Homo sapiens GN=POTEF PE=1 SV=2

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MGKWCRHCFPCCRGSGKSNVGASGDHDDSAMKTLRNKMGKWCCRCFPCCRGSSKSKVGAW  
GDYDDSAFMEPRYHVRGEDLDKLHRAAWWGKVPKDLIVMLRDTDVNKQDKQKRTALHLA  
SANGNSEVVKLLDRRCQLNVLDNKKRTALIKAVQCQEDECALMLEHGTDPNIPDEYGN  
TTLHYAIYNEDKLMAKALLYGADIESKNKHGLTPLLGVHEQKQVVKFLIKKKANLNA  
LDRYGR TALILAVCCGSASIVSLLEQNIDVSSQDLSGQTAREYAVSSHHHVICQLLSDY  
KEKQMLKISSSENSNPEQDLKL TSEESQRFKGSSENSQPEKMSQEPEINKDGDREVEEEMK  
KHESNNVGLLENLTNGVTAGNGDGLIPQRKSRTPENQQFPDNESEEYHRICELLSDYKE  
KQMPKYSSSENSNPEQDLKL TSEESQRLKGSENGQPEKRSQEPEINKDGDRELENFMAIE  
EMKKHRSTHVGFPENLTNGATAGNGDGLIPPRKSRTPEQQFPDTENEEYHSDEQNDTQ  
KQFCEEQNTGILHDEIL IHEEKQIEVVEKMNSLSLCKKEKDILHENSTLREEIAMLRL  
ELDTMKHQSQLREKKYLEDIESVKKRNDNLLKALQLNELTMDDDTAVLVIDNGSGMCKAG  
FAGDDAPRAVFPSIVGRPRQQGMMGMGHQKESYVGKEAQSKRGILTLYKYPMEHGIITNWD  
DMEKIWHHTFYNELRVAPEEHPVLLTEATLNPKANREKMTQIMFETFNTPAMYVAIQAVL  
SLYTSGRTTGIVMSDGDVTHTVPIYEGNALPHATLRLDLAGRELDPYLMKILTEHGYRF  
TTMAEREIVRDIKEKLCYVALDFEQEMATVASSSSLEKSYELPDGQVITIGNERFRCPEA  
LFQPCFLGMESCGIHETTFNSIMKSDVDIRKDLYTNTVLSGGTTMYPGMAHRMQKEIAAL  
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>sp|Q6S545|POTEH\_HUMAN POTE ankyrin domain family member H OS=Homo sapiens GN=POTEH PE=2 SV=3

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GDHDDSAMKTLRSKMKGWCCRCFPCCRGSGKNKVGPGDYDDSAFMEPRYHVRREDLDKL  
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NKKRTALT KAVQCQEDECALMLEHGTDPNIPDEYGNTALHYAIYNEDKLMAKALLYGA  
DIESKNKHGLTPLLGVHEQKQVVKFLIKKKANLNALDRYGR TALILAVCCGSASIVSL  
LLEQNIDVSSQDLSGQTAREYAVSSRHNVICQLLSDYKEKQILKVSSSENSNPEQDLKLTS  
EEESQRLKGSSENSQPEEMSQEPEINKGDRKVEEEMKKHGSTHMGFPENLTNGATADNGD  
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AENEF

>sp|POCG39|POTEJ\_HUMAN POTE ankyrin domain family member J OS=Homo sapiens GN=POTEJ PE=3 SV=1

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IVMLRDTDVNKQDKQKRTALHLASANGNSGVVKKLLDRRCQLNVLDNKKRTALT KAVQCQ  
EDECALMLEHGTDPNIPDEYGNTTLHYAIYNEDKLMAKALLYGADIESKNKHGLTPLL  
LGVHEQKQVVKFLIKKKANLNALDRYGR TALILAVCCGSASIVSLLEQNIDVSSQDLS

GQTAREYAVSSHHVICQLLSDYKEKQMLKISSENSNPEQDLKLTSEESQRFKGSSENSQ  
PEKMSQEPEINKDGDREVEEEMKKHESNNVGLLENLSNGVTAGNGDDGLIPQRKSRTPEN  
QQFPDNESEYHRICELVSDYKEKQMPKYSENSNPEQDLKLTSEESQRLKSENGQPE  
KRSQEPEINKDGDRELENFMAIEEMKKHGSTHVGFPENLTNGATAGNGDDGLIPRKSRT  
PESQQFPDTENEEYHSDEQNDTQKQFCEEQNTGILHDEILIHEEKQIEVVEKMNSELSLS  
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AQSKRGILTLKYPMEHGIITNWDMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANRE  
KMTQIMFETFNTAMPYVAIQAMLSLYTSGRTTGIVMDSGDGVTHTVPIYDGNALPHATLR  
LDLAGRELTDYLMKILTERGYRFTTMAEREIVRDIKEKLCYVALDFEQEMAMVASSSSLE  
KSYELPDGQVITISNEWFRCPEALFQPCFLGMESCGIHETTFNSIMKSDVDIRKDLTNT  
VLSGGTTMYPGMAHRMQKEIAALAPSMKIRIIAPPKRKYSVWVGGSILASLSTFQQMWI  
SKQEYDESGPSIVHRKCF

>sp|Q9NXH3|PP14D\_HUMAN Protein phosphatase 1 regulatory subunit 14D OS=Homo sapiens  
GN=PPP1R14D PE=1 SV=1

MLSSSPASCTSPSPDGENPCKKVHWASGRRRTSSTDSESKSHPDSSKIPSRRRPSRLTVK  
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RPTEAFISELLSQLKKLRRLSRPQK

>sp|P62136|PP1A\_HUMAN Serine/threonine-protein phosphatase PP1-alpha catalytic subunit  
OS=Homo sapiens GN=PPP1CA PE=1 SV=1

MSDSEKLNLDIIIGRLLEVQGSRPGKNVQLTENEIRGLCLKSREIFLSQPILLELEAPLK  
ICGDIHGQYYDLLRLFYEGGFPPESNYLFLGDYVDRGKQSLETICLLAYKIKYPENFFL  
LRGNHECASINRIYGFYDECKRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDL  
QSMEQIRRIMRPTDVPDQGLLCDLLWSDPKDQVQGWGENDRGVSFTFGAEVVAKFLHKHD  
LDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGAMMSVDETLMCSFQILKPAD  
KNKGKYGQFSGLNPGGRPITPPRNSAKAKK

>sp|P67775|PP2AA\_HUMAN Serine/threonine-protein phosphatase 2A catalytic subunit alpha  
isoform OS=Homo sapiens GN=PPP2CA PE=1 SV=1

MDEKVFTKELDQWIEQLNECKQLSESQVKSLECAKEILTKESNVQEVRCVTVCGDVHG  
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RALDRLQEVPHGPMCDLLWSDPDRGGWGISPRGAGYTFGQDISETFNHANGTLVSRA  
HQLVMEGYNWCHDRNVVTIFSAPNYCYRCGNQAAIMELDDTLKYSFLQFDPAPRRGEPHV  
TRRTPDYFL

>sp|Q8IY26|PLPP6\_HUMAN Phospholipid phosphatase 6 OS=Homo sapiens GN=PLPP6 PE=1 SV=3

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AGESSSWGSRPLMKLLEISGHGIPWLLGTLYCLCRSDSWAGREVLNLLFALLLDLLLV  
ALIKGLVRRRRPAHNQMDMFVTLSDVKYSFPSGHATRAALMSRFILNHLVLAIPRLVLVV  
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>sp|P51805|PLXA3\_HUMAN Plexin-A3 OS=Homo sapiens GN=PLXNA3 PE=1 SV=2

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QFLRLDDLFLKGEPHHRKEHYLSGAQEPDSMAGVIVEQQGQPSKLFVGTAVDGKSEYFPT

LSSRKLI SDEDSADMFSLVYQDEFVSSQIKIPSDTSLYPAFDIYYIYGFSASFVYFLT  
LQLDTQQTLTLDAGEKFFTSKIVRMCAGDSEFYSYVEFPIGCSWRGVEYRLVQSAHLAKP  
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TYRQHSVVFIGTRSGSLKKVRVDGFQDAHL YETVPVVDGSPILRDLLFSPDHRHIYLLSE  
KQVSQLPVETCEQYQSCAACLGSGDPHCWCVLRHCCREGACLGASAPHGFAEELSKCV  
QVRVRPNNVSVTSPGVQLTVTLHNVPDL SAGVSCAFEAANEAVLLPSGELLCPSPSLQ  
ELRALTRGHGATRTRVRLQLLSKETGVRFAGADFVFYNC SVLQSCMSCVGSPPCHWCKYR  
HTCTSRPHECSFQEGRVHSPGCEPILPSGDLLIPVGMQPLTLRAKNLPQPQSGQKNYE  
CVVRVQGRQRPVAVRFNSSSVQCQNASYSYEGDEHGDTELD FSVVWDGDFPIDKPPSFR  
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RITQIHPLVGPKEGGTRVTIVGDNLGLLSREVGLRVAGVRCNSIPA EYISAERIVCEMEE  
SLVSPPPPGPVLCVGDCA DFRQTQSEQVYSFVTPTFDQVSPSRGPASGGTRLTISGSSL  
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HRGSALPLAIKYMDFLDEQADQRQISDPDVRHTWKSNCPLRFWVNIKNPQFVFDIHK  
NSITDACLSVVAQTFMDSCSTSEHRLGKDSPSNKLLYAKDIPNYKSWVERYRDI AKMAS  
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EQIISLVSSDS

>sp|Q9HCM2|PLXA4\_HUMAN Plexin-A4 OS=Homo sapiens GN=PLXA4 PE=1 SV=4

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QESQWLELSGAKSKCTNPRITEIIPVTGPREGGKVTIRGENLGLEFRDIASHVKVAGVE  
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TMRVLPFGIEDHPVLRDLEVPGYRQERVEKGLKLFAQLINNKFLLSFIRTLESQRSFSM  
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WFTFLLYKFLKECAGEPLFSLFCAIKQMEKGPIDAITGEARYSLSEDKLIRQQIDYKTL  
VLSCVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSHRPAADMLEWRQSGG  
ARMILQDEDITTKIENDWKRLNTLAHYQVPDGSVVALVSKQVTAYNAVNNSTVSRTSASK  
YENMIRYTGSPDSLRSRTPMITPDLESGVKMWHLVKNHEHGDQKEGDRGSKMVSEIYLTR  
LLATKGTLLQKFVDDL FETIFSTAHRSALPLAIKYMFDLDEQADKHGIHDPHVRHTWKS  
NCLPLRFVWNMIKNPQFVFDIHKNSITDACLSVVAQTFMDSCSTSEHRLGKDSPSNKLLY  
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SEEILGPLDHDDQCGKQKLAYKLEQVITLMSLDS

>sp|Q9ULL4|PLXB3\_HUMAN Plexin-B3 OS=Homo sapiens GN=PLXNB3 PE=1 SV=2

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LVSSRAQELVACGQVRQGVCESTRRLGDVAEVLVQAEDPGDQGFVAANTPGVATVGLVVPL  
PGRDLLLVARGLAGKLSAGVPLAIRQLAGSQPFSSSEGLGRLVVGDFSDYNNNSYVGAFAD  
ARSAYFVFRRRGARAQAEYRSYVARVCLGDTNLYSYVEVPLACQGGGLIQA AFLAPGTLL  
GVFAAGPRGTQAALCAFP MVELGASMEQARRLCYTAGGRGPSGAEEATVEYGVTSRCVTL  
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QGQVTLSPRLPILDADEYFHCAF GDYDSL AHVEGPHVACVTPPDQVPLNPPGTDHVTV  
PLALMFEDVTVAATNFSFYDCSAVQALEAAAPCRACVGS IWRCHWCPQSSHCVYGEHCPE  
GERTIYSAQEVDIQVRGPGACPVQVEGLAGPHLVPGWESHLALRVRNLQHFRGLPASFHC  
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FVGGQPCPILEPVCPEAIVCRTRPQAAPGEAAVLVVFQHAQRTLLASPFYRTANPQLVAA  
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LNDSRLLREDVEFQPLTLMVLVGPAGGAAGSSEMQRVPARVLDTDTITQVKEKVLDQVY  
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VPQLHRGSTISQSLAQRCPLGENIPTLEDGEEGGVCLWHLVKATEEPEGAKVRCSSLRER  
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IEDPGTLHIWKTNSLLLRFWVNALKNPQLIFDVRVSDNVDAILAVIAQTFIDSCTTSEHK  
VGRDSPVNKLLYAREIPRYKQMVERRYADIRQSSPASYQEMNSALAEISGNYTSAPHCLE  
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>sp|Q969W9|PMEPA\_HUMAN Protein TMEPAI OS=Homo sapiens GN=PMEPA1 PE=1 SV=1

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VPPFAQRERFHRFQPTYPYLQHEIDLPTISLSDGEEPPPYQGPCTLQLRDPEQQLELNR  
ESVRAPPNRTIFDSDLMSARLGGPCPPSSNSGISATCYSGGRMEGPPPTYSEVIGHYP  
GSSFQHQSSGPPSLLEGTRLHHTHIAPLESAAIWSKEKDKQKGHPL

>sp|Q92871|PMM1\_HUMAN Phosphomannomutase 1 OS=Homo sapiens GN=PMM1 PE=1 SV=2

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LPKKRGTFIEFRNGMLNISPIGRSCTLEERIEFSELDKKEKIREKFVEALKTEFAGKGLR  
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>sp|Q68D20|PMS2L\_HUMAN Protein PMS2CL OS=Homo sapiens GN=PMS2CL PE=2 SV=1

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LGQKRGMSSSSTDAISDRGVL RPQKEAVSSSQGPSDPTDRAEVEKDSGHGSTVDSEGF  
SIPDTGSHCSSECVASTPGDRGSQEHVDSQEKAPETDDSFSDVDCHSNQEDTGCKFQVLP  
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>sp|Q9UL42|PNMA2\_HUMAN Paraneoplastic antigen Ma2 OS=Homo sapiens GN=PNMA2 PE=1 SV=2

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FRALGQEGVSPATVPCISPELLAHL LGQAMAHAPQPLLP MYRKL RVFSGSAVPAPEEES  
FEVWLEQATEIVKEVPVTEAEKKRWLAESLRGPALDLMHIVQADNPSISVEECLEAFKQV  
FGSLESRRTAQVRYLKTYQEEGEKVSAYVLRLETLLRRAVEKRAIPRRIADQVRLEQVMA  
GATLNQMLWCRLRELKDQGPPPSFLELMKVIREEEEEEASFENESIEEPEERDGYGRWNH  
EGDD

>sp|Q96PV4|PNMA5\_HUMAN Paraneoplastic antigen-like protein 5 OS=Homo sapiens GN=PNMA5  
PE=1 SV=2

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ARALGCCSLPAESLDAEVMPQVRSPPLEPPKESMWYRKLKVFSGTASPSPEETFEDWLE  
QVTEIMPIWQVSEVEKRRRLLES LRGPALSIMRVLQANNSITVEQCLDALKQIFGDKED  
FRASQFRFLTSPKIGEKVSTFLLRLEPLLQKAVHKSPLSVRSTDMIRLKHLLARVAMTP  
ALRGKLELLDQRCPPNFLELMKLI RDEEEWENTEAVMKNKEKPSGRGRGASGRQARAEA  
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>sp|P11086|PNMT\_HUMAN Phenylethanolamine N-methyltransferase OS=Homo sapiens GN=PNMT PE=1  
SV=1

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>sp|Q8NBTO|POC1A\_HUMAN POC1 centriolar protein homolog A OS=Homo sapiens GN=POC1A PE=1 SV=2

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KDAVTCVNFSPSGHLLASGSRDKTVRIWVPNVKGESTVFRAHTATVRSVHFCSDGQSFVT  
ASDDKTVKVVATHRQKFLFSLSQHINWVRCAKFSPDGRLIVSASDDKTVKLWDKSSRECV  
HSYCEHGGFVTVDFHPSGTCIAAAGMDNTVKVWDVRTHRLLQHYQLHSAAVNGLSFHPS  
GNYLITASSDSTLKILDMEGRLLYTLHGHPATTVAFSRTGEYFASGGSDEQVMVWKS  
NFDIVDHGEVTKVPRPPATLASSMGNLPEVDFPVPPGRGRSVESVQSQPQEPVSVPTLT  
STLEHIVGQLDVLTVTSILEQRLTLTEDKLKQCLENQQLIMQRATP

>sp|Q9NP85|PODO\_HUMAN Podocin OS=Homo sapiens GN=NPHS2 PE=1 SV=1

MERRARSSSRESRGRGGRTPHKENKRAKERSGGGRGRQEAGPEPSGSGRAGTPGEPRAP  
AATVVDVDEVRGSGEETEVVALLESERPEEGTKSSGLGACEWLLVLISLLFIIMTFPFS  
IWFCKVQVEYERVIIFRLGHLLPGRAKGPGGLFFFLPCLDTHYKVDLRLQTLEIPFHEIV  
TKDMFIMEIDAICYRMENASLLSSLAHVS KAVQFLVQTTMKRLLAHRSLTEILLERKS  
IAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLQHSLAVEAEAQRQAKVRMIAAEAEKA  
ASESLRMAAEILSGTPAAVQLRYLHTLQSLSTEKPSTVVLPLPFDLLNCLSSPSNRTQGS  
LPFPSPSPKVEPLNPKKKDSPML

>sp|P63136|POK25\_HUMAN Endogenous retrovirus group K member 25 Pol protein OS=Homo sapiens GN=ERVK-25 PE=3 SV=1

NKSKKRRNRVSFLGAATVEPPKPIPLTWKTEKPVWVNQWPLPKQKLEALHLLANEQLEKG  
HIEPSFSPWNSPVFIQKKS GKWRLTDLRAVNAVIQPMGPLQGPLSPAMIPKDWPLII  
IDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRAL  
QPVREKFSDCYIIHYIDDILCAAETDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHY  
LGMQIENRKIKPKQIEIRKDTL KALNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDS  
DLNSKRMLTPEATKEIKLVEEKIQAQINRIDPLAPLQLLIFATAHSPTGII IQNTDLVE  
WSFLPHSTVKTFTLYLDQIATLIGQTRLRI IKLCGNPDKIVVPLTKEQVRQAFINS GAW  
QIGLANFVGIIDNHYPKTKIFQLKLTWILPKITRREPLENALTFTD GSSNGKAAAYTG  
PKERVIKTPYQSAQRAELVAVITVLQDFDINIISDSAYVVQATRDVETALIKYSMDQLN  
QLFNLLQQTVRKRNFPHYITHIRAHTNLPGPLTKANKQADLLVSSALIKAQELHALTHVN  
AAGLKNKFDVTWKLAKDIVQHCTQCQVLHLPTQEAGVNPRGLCPNALWQMDVTHVPSFGR  
LSYVHVTVDTYSHFIWATCHTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQK  
FLSQWKISHTTGIPYNSQGQAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTL  
NFLNIYRNQTTTSAEQHLTGKKNSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSPGE  
NQLPVWIPTRHLKFYNEPIRDAKKSTSAETETPQSSTVDSQDEQNGDVRRTDEVAIHQEG  
RAANLGTKEADAVSYKISREHKGDTNPREYAACSLDDCINGGKSPYACRSCS

>sp|Q5K4E3|POLS2\_HUMAN Polyserase-2 OS=Homo sapiens GN=PRSS36 PE=1 SV=2

MARHLLPLVMLVISPIGAFQDSALSPTQEEPDLDCGRPEPSARIVGGSNAQPGTWPW  
QVSLHHGGGHICGSLIAPSWVLSAAHCFMTNGTLEPAAEWSVLLGVHSQDGPLDGAHTR  
AVAAIVVPANYSQVELGADLALLRLASPASLGPVWPVCLPRASHRFVHGTACWATGWGD

VQEADPLPLPWVLQEVELRLLGEATCQCLYSQPGPFNLTLQILPGMLCAGYPEGRRDTCQ  
GDSGGPLVCEEGRWFQAGITSFGFGCGRRNRPGVFTAVATYEAWIREQVMGSEPGPAFP  
TQPQKTQSDPQEPREENCTIALPECCKAPRPGAWPWEAQVMVPGSRPCHGALVSESWLA  
PASCFLDPNSSDSPRDLDAWRVLLPSRPRAERVARLVQHENASWDNASDLALLQLRTPV  
NLSAASRPVCLPHPEHYFLPGSRCRLARWGRGEPALGPGALLEAELLGGWWCHCLYGRQG  
AAVPLPGDPPHALCPAYQEKEEVGSCWNDSRWSLLCQEEGTWFLAGIRDFFPSGCLRPRAF  
FPLQTHGPWISHVTRGAYLEDQLAWDWGPDGEETETQTCPPHTEHGACGLRLEAAPVGVL  
WPWLAEVHVAGDRVCTGILLAPGWVLAATHCVLRPGSTTVPYIEVYLGRAGASSLPQGHQ  
VSRLVISIRLPQHLGLRPPLALLELSSRVEPSALPICLHPAGIPPGASCWVLGWKEPQ  
DRVPVAAAVSILTQRICDCLYQGILPPGTLCVLYAEGQENRCMTSAPPLLCQMTEGSWI  
LVGMAVQGSRELFAAIGPEEAWISQTVGEANFLPPSGSPHWPTGGSNLCPELAKASGSP  
HAVYFLLLLTLLIQS

>sp|Q9Y244|POMP\_HUMAN Proteasome maturation protein OS=Homo sapiens GN=POMP PE=1 SV=1

MNARGLGSELKDSIPVTELSASGPFESHDLRLKGFSCVKNELLPSPLELSEKNFQLNQD  
KMNFTLRNIQGLFAPLKLQMEFAVQQVQRLPFLSSNLSLDVLRGNDTIGFEDILND  
PSQSEVMGEPHLMVEYKLGLL

>sp|Q6PEZ8|PONL1\_HUMAN Podocan-like protein 1 OS=Homo sapiens GN=PODNL1 PE=2 SV=2

MAESGLAMWPSLLLLLLPGPPPAGLEDAAFPHLGESLQPLPRACPLRCSCPRVDTVDC  
DGLDLRVFPDNITRAAQHLSLQNNQLQELPYNELSRLSGLRTLNLHNNLISSEGLPDEAF  
ESLTQLQHLCVAHNKLSVAPQFLPRSLRVADLAANQVMEIFPLTFGEKPALRSVYLHNNQ  
LSNAGLPPDAFRGSEAIATLSLNNQLSYLPPSLPPSLERLHLQNNLSKVPRGALSRT  
QLRELYLQHNQLTDSGLDATTFSKLHSLEYLDLSHNQLTTVPAGLPRTLAITLHLGRNRI  
QVEAARLHGARGRLRYLLQHNQLGSSGLPAGALRPLRGLHTLHLYGNGLDRVPPALPRRL  
RALVLPNHVAALGARDLVATPGLTELNLAYNRLASARVHHRAFRRLRALRSLDLAGNQL  
TRLPMGLPTGLRTLQLQRNQLRMLEPEPLAGLDQLRELSLAHNRLRVGDIGPGTWHELQA  
LQVRHRLVSHTVPRAPPSPCLPCHVPNILVSW

>sp|Q6S5H4|POTEB\_HUMAN POTE ankyrin domain family member B OS=Homo sapiens GN=POTEB PE=2  
SV=1

MVAEVCMPAASAVKKPFDLRSKMKGKWHHRFPCCRGSGKSNMGTSGDHDSFMKTLRSK  
MGKCCHHCFPCCRGSGTSNVTSGDHDSFMKTLRSKMKGKWCCHCFPCCRGSGKSNVGTW  
GDYDDSAFMEPRYHVRREDLDKLHRAAWGKVPRKDLIVMLRDTDMNKRDKQKRTALHLA  
SANGNSEVVQLLLDRRCQLNVLDNKKRTALIKAVQCQEDECVLMLLEHGADGNIQDEYGN  
TALHYAIYNEDKLMAKALLYGADIESKNKCGLTPLLLGVHEQKQVVKFLIKKANLNA  
LDRYGRTALILAVCCGSASIVNLLLEQNVDVSSQDLSGQTAREYAVSSHHVICELSDY  
KEKQMLKISSSENSPEQDLKLSEEESQRLKVSSENSQPEKMSQEPEINKDCDREVEEEIK  
KHGSPVGLPENLTNGASAGNGDDGLIPQRKSRKPENQQFPDTENEEYHSDEQNDTQKQL  
SEEQNTGISQDEILTQKQKQIEVAEKEMNSKLSLSHKKEEDLLRENSMLREEIAMLRLEL  
DETKHQQLRENKILEEIESVKEKLLKAIQLNEEALTKTSI

>sp|Q86YR6|POTED\_HUMAN POTE ankyrin domain family member D OS=Homo sapiens GN=POTED PE=2  
SV=2

MVAEVCSMPTASTVKKPFDLRSKMKGKWHHRFPCCRGSGKSNMGTSGDHDSFMKMLRSK  
MGKCCRHCFCPCCRGSGTSNVTSGDHENSFMKMLRSKMKGKWCCHCFPCCRGSGKSNVGAW  
GDYDHSAFMEPRYHIRREDLDKLHRAAWGKVPRKDLIVMLRDTDMNKRDKKRTALHLA  
SANGNSEVVQLLLDRRCQLNVLDNKKRTALIKAIQCQEDECVLMLLEHGADRNIQDEYGN

TALHYAIYNEDKLMAKALLYGADIESKNKCGLTPLLLGVHEQKQQVVKFLIKKKANLNV  
LDRYGR TALILAVCCGSASIVNLLLEQNVDVSSQDL SGQTAREYAVSSHHHVICELLS DY  
KEKQMLKISSENSNPEQDLKLTSEEE SQRLKVSSENSQPEKMSQEPEINKDCDREVEEEITK  
KHG SNPVL PENLTNGASAGNGDDGLIPQRRSRKPENQQFPDTENE EYHSDEQNDTRKQL  
SEEQNTGISQDEILT NKQKQIEVAEQKMNSELSL SHKKEEDLLRENSVLQEEIAMLRL EL  
DETKHQNLRENKILEEIESVKEKTDKLLRAMQLNEEALTKTNI

>sp|A6NI47|POTEM\_HUMAN Putative POTE ankyrin domain family member M OS=Homo sapiens  
GN=POTEM PE=3 SV=2

MVAEAGSMPAASSVKKPFGLR SKMGKWC RHC FPWCRGSGKSNVGTSGDHDD SAMKTLRSK  
MGKWC RHC FPWCRGSGKSNVGTSGDHDD SAMKTLRSKMGKWCCHCFPCCRGSGKSKVGPW  
GDYDDSAFMEPRYHVRREDL DKLHRAAWGKVPRKDLIVMLKDTDMNKKDKQKRTALHLA  
SANGNSEVVKLLLD RRCQLNILDNKKRTALTKAVQCQEDECALMLLEHGTDPNIPDEYGN  
TALHYAIYNEDKLMAKALLYGADIESKNKHGLTPLLLGVHEQKQQVVKFLIKKKANLNA  
LDRYGR TVLILAVCCGSASIVSLLLEQNIDVSSQDL SGQTAREYAVSSRHNVICQLLSDY  
KEKQILKVSSSENSNPEQDLKLTSEEE SQRLKGSSENSQPEEMSQEPEINKGGDRKVEEEMK  
KHGSTHMGFPENLPNGATADNGDDGLIPPRKSRTPE SQFPDTENEQYHSDEQNDTQKQL  
SEEQNTGILQDEILIHEEKQIEVAENEF

>sp|Q9BZL4|PP12C\_HUMAN Protein phosphatase 1 regulatory subunit 12C OS=Homo sapiens  
GN=PPP1R12C PE=1 SV=1

MSGEDGPAAGPGAAAAAARERRREQLRQWGARAGAEPGPGERRARTVRFERAAEFLAACA  
GGDLDEARLMLRAADPGPGAELDPAAPPPARAVLDSTNADGISALHQACIDENLEVVRFL  
VEQGATVNQADNEGWTPLHVAASCGYLDIARYLLSHGANIAAVNSDGLPLDLAESDAME  
GLLKAETARRGVDVEAAKRAEEELLLHDTRCWLNGGAMPEARHPRTGASALHVA AAKGYI  
EVMRLLQAGYDPELRDGDGWTP LHAAAHWGVEDACRLLAEHGGGMDSLTHAGQRPCDLA  
DEEVL SLEELARKQEDLRNQKEASQSRGQEPQAPSSSKHRRSSVCRLSSREKISLQDLS  
KERRPGGAGGPPIQDEDEGEEGPT EPPPAEPRTLNGVSSPPHPSPKSPVQLEEAPFSRRF  
GLLKTGSSGALGPPERRTAEGAPGAGLQRSASSSWLEGTSTQAKELRLARITPTPSPKLP  
EPSVLSEVTKPPPLENSSPPSRIPEPESPAKPNVPTASTAPPADSRDRRRSYQMPVRDE  
ESESQRKARSRLMRQSRSTQGVTLTDLKEAEKAAGKAPESKPAQSLDPSRRPRVPGVE  
NSDSPAQRAEAPDGGPGPQAAREHRKV GKEWRGPAEGEEAEPADRSQESSTLEGGPSAR  
RQRWQRDLNPEPEPESEEPDGGFRTL YAELRRENERLREALTETTLRLAQLKVELERATQ  
RQERFAERPALLELERFERRALERKAAELEELKALSDLRADNQRLKDENAALIRVISKL  
SK

>sp|Q15435|PP1R7\_HUMAN Protein phosphatase 1 regulatory subunit 7 OS=Homo sapiens  
GN=PPP1R7 PE=1 SV=1

MAAERGAGQQSQEMMEVDRRVESEESGDEEGKKHSSGIVADLSEQSLKDGEERGEEDPE  
EEHELPVDMETINLDRDAEDVDLNHYRIGKIEGFEVLKKVKTLC LRQNLIKCIENLEELQ  
SLRELDLYDNQIKKIENLEALTELEILDISFNLLRNIEGVDKLTRLKKLFLVNNKISKIE  
NLSNLHQLQMLELGSNRIRAIENIDTLTNLESLFLGKNKITKLQNLDALTNLTVLSMQSN  
RLTKIEGLQNLVNLRELYLSHNGIEVIEGLENNKLTMLDIASNRIKKIENISHLTELQE  
FWMNDNLLESWSDLDELKGARSLETVYLERNPLQKDPQYRRKVMLALPSVRQIDATFVRF

>sp|Q12972|PP1R8\_HUMAN Nuclear inhibitor of protein phosphatase 1 OS=Homo sapiens  
GN=PPP1R8 PE=1 SV=2

MAAAANS GSSLPLFDCPTWAGKPPPGHLHDVVKGDKLIEKLIIDEKKYYLFGRNPDLCDF

TIDHQSCSRVHAALVYHKHLKRVFLIDLNSTHGTFLGHIRLEPHKPQQIPIDSTVSFGAS  
TRAYTLREKPQTLPSAVKGDEKMGGEDELKGLLGLPEEETELDNLTEFNHTAHNKRISTL  
TIEEGNLDIQRPKRKRKNSRVTFSEDEIINPEDVDPSVGRFRNMVQTAVVPVKKRVEG  
PGSLGLEESGSRMQNFAFSGGLYGGLPPTHSEAGSQPHGIHGTALIGGLPMPYPNLAPD  
VDLTPVPSAVNMNPAPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLLI

>sp|P35813|PPM1A\_HUMAN Protein phosphatase 1A OS=Homo sapiens GN=PPM1A PE=1 SV=1  
MGAFLDKPKMEKHNAQGQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLESWSFFAVYD  
GHAGSQVAKYCEHLLDHIITNNQDFKGSAGAPSVENVKNGIRTGFLEIDEHMRVMSEKKH  
GADRSGSTAVGVLISQHTYFINCGDSRGLLCNRKRVHFFTQDHKPSNPLEKERIQNAGG  
SVMIQRVNGSLAVSRALGDFDYKCVHGKGPTEQLVSPEPEVHDIERSEEDDQFIILACDG  
IWDVMGNEELCDFVRSRLEVTDDELEKVCNEVVDTCLYKGRDNMSVILICFPNAPKVSPE  
AVKKEAELDKYLECRVEEI IKKQGEVDPDLVHVMRTLASENIPSLPPGGELASKRNVIEA  
VYNRLNPYKNDDTDSTSTDDMW

>sp|O15297|PPM1D\_HUMAN Protein phosphatase 1D OS=Homo sapiens GN=PPM1D PE=1 SV=1  
MAGLYSLGVSVFSDQGGRKYMEDVTQIVVEPEPTAEKPSRRSLSQPLPPRPSAALPG  
GEVSGKGPAAAREARDPLPDAGASPAPSRCCRRRSSVAFFAVCDGHGGREAAQFAREHL  
WGFIKKQKGFTSSEPAKVCAAIRKGLACHLAMWKKLAEWPKTMTGLPSTSGTTASVVI  
RGMKMYVAHVGDGSGVVLGIQDDPKDDFVRAVEVTQDHKPELPKERERIEGLGGSVMNKS  
G VNRVWKRPRLTHNGPVRRSTVIDQIPFLAVARALGDLWSYDFFSGEFVVSPEPDTSVHT  
LDPQKHKYIILGSDGLWNMIPPQDAISMCQDQEEKYLMGEHGQSCAKMLVNRALGRWRQ  
RMLRADNTSAIVICISPEVDNQGNFTNEDELYLNLTDSPSYNSQETCVMTSPCSTPPVK  
SLEEDPWPRVNSKDHPALVRSNAFSENFLVSAEIARENVQGVVIPS KDPEPLEENCAK  
ALTLRIHDSLNNSLPIGLVPTNSTNTVMDQKNLKMSTPGQMKAQEIERTPPTNFKRTLEE  
SNSGPLMKKHRRNGLSRSSGAQPASLP TTSQRKNSVKLTMRRLRGQKKIGNPLLHQHRK  
TVCVC

>sp|O15355|PPM1G\_HUMAN Protein phosphatase 1G OS=Homo sapiens GN=PPM1G PE=1 SV=1  
MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWRVSMEDAHNCIPELDSETAMFSVYD  
GHGEEVALYCAKYPDI IKDQKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGR  
PTEDEDEKEKVADEDDVDNEEAALLHEEATMTIEELLTRYGQNCHKGPPhSKSGGGTGEE  
PGSQGLNGEAGPEDSTRETSPQENGPTAKAYTGFSNSERGTAGQVGEPGIPTGEAGPS  
CSSASDKLPRVAKSKFFEDSEDESDEAEEDSEECSEEDGYSSEEAENEDEDDTEE  
AEEDDEEEEEEMVPMGEGKEE PGSDSGTTAVVALIRGKQLIVANAGDSRCVVSEAGKAL  
DMSYDHKPEDEVELARIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRKNLPPEEQMISA  
LPDIKVLTLTDHEFMVIACDGIWNVMSSQEVVDIFIQSKISQRDENGELRLLSSIVEELL  
DQCLAPDTSGDGTGCDNMTCIICFKPRNTAELQPESGKRKLEEV LSTEGAEENGNSDKK  
KKAKRD

>sp|O00743|PPP6\_HUMAN Serine/threonine-protein phosphatase 6 catalytic subunit OS=Homo sapiens GN=PPP6C PE=1 SV=1  
MAPLDLDKYVEIARLCKYLPENDLKRLCDYVCDLLEESNVQPVSTPVTVC GD IHGQFYD  
LCELFR TGGQVPDNTYIFMGDFVDRGYYSLETFTYLLALKAKWPDRITLLRGNHESRQIT  
QVYGFYDECQTKYGNANAWRYCTKVFDMLTVAALIDEQILCVHGGLSPDIKTL DQIRTIE  
RNQEIPHKGAFCDLVWSDPEDVDTWAI SPRGAGWLF GAKVTNEFVHINNKLICRAHQLV  
HEGYKFMFDEKLTVWSAPNYCYRCGNIASIMVFKDVNTREP KLFRAVPDSERVIPRTT  
TPYFL

>sp|Q6NYC8|PPR18\_HUMAN Phostensin OS=Homo sapiens GN=PPP1R18 PE=1 SV=1

MATIPDWKLQLLARRRQEEASVRGREKAERERLSQMPAWKRGLLERRRAKLGLSPGEPSP  
VLGTVEAGPPDPDESAVLLEAIGPVHQNRFIQERQQQQQQQRSEELLAERKPGPLEAR  
ERRSPGEMRDQSPKGRESREERLSPRETRERRLGIGGAQELSLRPLEARDWRQSPGEVG  
DRSSRLSEAWKWRLSPGETPERSLRLAESREQSPRRKEVESRLSPGESAYQKLGLTEAHK  
WRPDSRESQEQLSVLEATEWRLRSGEERQDYSEECGRKEEWPVPGVAPKETAELSETLT  
REAQGNSAGVEAAEQRPVEDGERGMKPTEGWKWLNSGKAREWTPRDIEAQTQKPEPPE  
SAEKLLSPGVEAGEGEAEKEEAGAQRPLRALQNCCSVPSLPPEDAGTGGLRQQEEEA  
VELQPPPPAPLSPPPAPTAPQPPGDPLMSRLFYGVKAGPGVGAPRRSGHTFTVNPRRSV  
PPATPATPTSPATVDAAVPGAGKKRYPTAEELVLGGYLRLSRSLAKGSPERHHKQLKI  
SFSETALETQYQPSSESVLEELGPEPEVPSAPNPAAQPDDEDEEELLLLQPELQGGGL  
RTKALIVDESCRR

>sp|Q5THK1|PR14L\_HUMAN Protein PRR14L OS=Homo sapiens GN=PRR14L PE=1 SV=1

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RALPLELQRTHVESCCEETYETLDHGSEPGRCGLVDSTAGGSVASGILDRAKRSEMEPK  
VFRDPGGQAGIIREPSEGAKEDPHQHSTAAEEKTSPSQEDLLMQSSKELSHVDLPEDFLR  
SKEGNVQITAETLLKSAEVQGMKVNNGTKTDNNEGHNKNGNVSKDLSAGCGEFQEVDKIMTS  
DEVSETSTLVTPEPLTFVDPVLTEATPKEKECEELKSCPWLSLPGNSAISNVDNGKEELC  
KPNLVCEADDNHQQLHGHNEQPSSTHDSPTATSPLKENSEVSCFTSDLSGPESRTISLE  
NCGFEGGGLLKRSAEKTDSYFYRGDDQGKNLASREENERLLIPRSERGGPFLFNAREP  
EKEISGRCSGEKEPVSPKENIHNNCIQDSLHTGNSSSLMPNSFTEATEVMLNKNDLKIT  
VHVQGNLTNPEDHKETFTNMSPGGHSEESSFSSLMQIEEAGQTTPEPNILSKSFYTKD  
CNSLVSIRNLEGNTQLNEASCNDFLFERKSIVSLMPEDQISPVSEVLKPKQGTALLPS  
PEFDYRPESEKVIQTSRDDIPLDEQSIACEMNELSCTNELVVNKVESECVLNQQVSLNS  
QEHANLPTDSSLHLNKEMLATGRDAHQSHHPLEGRADVADIQTIPITKIKDISPPG  
NQTCGASSNCPTLNIPVSLERKKEMADSGTKALHSRLRSNKREAAGFPQVVSVECHSV  
QSQDISSCHVRKNVSQENMCASAAFKSSKISLQVDNSLITKYENAFQHRDHCCQGTGH  
SVEKSSCKVSYTSQERELDGKETNGSLPGDKIRNKMVAGLLNSGISNKTHTSSSIKLSE  
EGLEGKEQDVSKETVFCYKINISDHAIQELNQTVNIPGPEKVLDSPTVMFSSFKNVKSVE  
TLDQKADEVLDQSNQNRPDCEKSEGQSAKEMLSSDQRETVTEPHGEVNHQKDLLVSSG  
SNNSLPCGSPKKCNLKGAFFVKMSGCDESTEGMVDIVYTDCSNKLAEGVLDVKASNLDCG  
ARQEKLAQFQEDSRSTLSRRELDAAHTGTTGQDSDFVTAASTVDFLKIKKSCEENVCRL  
KDCMEKCPDSCAHMESVADHEPNKRILGRVNLNLNDSHYGQDKGTSRETQEMTEGS  
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LCKPKDGEMLCENVKDCTVLPMEKEIVSRDWSNSSDRDSVCTCVEKNACKACHPHENSSD  
RHLPLTVKTDIKVKGEETEEHQGRGLGYLTVGEQSEELVTRETGDGDPVSNISQTHFKCR  
GILNHAEQQSPEVLDMYLMQEEKYIRQQAHTISQQCISSSLLDDAQNNQPKADKDE  
STMINEITLAKLAKDSIVAQTQKLEDQKEERLHHPLRKDTESCTSPCLLGAPRKAQDPSS  
AGCDQIHGAFAKKGVLPLKKQPHRTCKKVSQEQIIVGRKIGKIRSSAFLKSSSNPIPTK  
AHRLLSLCTLAPTRLEPETATKSLVSHIPKQMSTPCHPLRSLNFRKTTKESALLNKL  
ILASKLAPAMKTQKLRYRRCSELLPMAKSYKRLRYKRLLDGFSSSTEQLNPYLAASGWD  
KRPNSKPMALYSLESIKMTFIDL SNKMPSLLFGSEIFPVSFHVKSSSSDCTTESSRTFPE  
HCAPARLALGEALQCPSPPKWTFSSFFLSHGCPGMATFREDTGVSQTHTQAPPQPAPL  
QDYGGTAIVQTRADCSVLGLHTLLALCSPGCYRIWTKKRSFSSHMPMQRLFMTQFTQGL

KGLRSPASIADKVFCSLPYSVGRVLSIWSQHGPSVCSFEISSLHSPHCKRQPSLGTSSH  
TMLPYVPLPGMEATYNTSGSQTRLEPPFPALVPKSCLVAESAVSKLLLSASEFQVRGLDE  
LDGVKAACPCPQSSPPEKQAEPEKRPKKVSQIRIRKTIPRPDNLTPMGLPRPKRLKKK  
EFSLEEIYTNKNYKSPANRCLTIFEKPKERNGLISISQQKRKRVLEFQDFTVPRKRR  
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>sp|Q5SWA1|PR15B\_HUMAN Protein phosphatase 1 regulatory subunit 15B OS=Homo sapiens  
GN=PPP1R15B PE=1 SV=1

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SYWTKLLSQLLAPLPLGLLQKVLWSQLFGGMFPTRWLDFAGVYSALRALKGREKPAAPTA  
QKSLSSLQLDSSDPSVTSPLDWLEEGIHWQYSPPDLKLELKAKGSALDPAAQAFLEQQL  
WGVLLPSSLQSRLYSNRELGSSPSGPLNIQRIDNFSVVSYLLNPSYLDLCPFRLEVSQN  
SDGNSEVVGFQTLTPESSCLREDHCHPQPLSAELIPASWQGCPLSTEGLPEIHHLRMKR  
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TEEKIELLTTEVPLALEEESPSEGCPSSSEIPMEKEPGEGRISVVDYSYLEGDLPI SARPA  
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FCSVDPYNPNQNTATITQTAARIVPEEPSDSEKDLGKSDLENSSQSGSLPETPEHSSGEE  
DDWESSADEAESLKLWNSFCNSDDPYNPLNFKAPFQTSGENEKGCRDSTPSESIVAISE  
CHTLLSCKVQLLGSQESECPDSVQRDVLSSGRHHTHVKKKVTFL EEVTEYYISGDEDRKG  
PWEEFARDGCRFQKRIQETEDAIGYCLTFEHRERMFNRLQGTCTFKGLNVLKQC

>sp|P86478|PR20E\_HUMAN Proline-rich protein 20E OS=Homo sapiens GN=PRR20E PE=4 SV=1

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EPGHQGEPEITETAAFSLSETGPPPGTVQEGPGPDVAQPELGFQEPPAAPGPQAVDWQPV  
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>sp|Q5SWL7|PRA14\_HUMAN PRAME family member 14 OS=Homo sapiens GN=PRAMEF14 PE=3 SV=1

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FTCLPLGSLMKTILHLETLKALLEGLHMLLTQKDRPRRWKLQVLDLRDVENFWARWPGAW  
ALSCFPETMSKRQTAEDCPRMGEHQPLKVFIDICLKEIPQDECLRYLFQWVYQRRGLVHL  
CCSKLVNLYLTPIKHLRKS LKI IYLN SIQQL EIRNMSWPRLIRKLRCYLKEMKNLRKLVFS  
RCLQNPLENLELTYGYLLEEDMKCLSQYPSLGYLKHLNLSYVLLFRISLEPLGALLEKIA  
ASLETLILEGCQIHYSQLSAILPGLSHCSQLTTFYFGRNCMSMGALKDLLCHTSGLSKLS  
LETYPAP EESLNSLVRVDWEIFALLRAELMCTLREVRQPKRIFIGPTPCPCGSSPSEEL  
ELHLCC

>sp|Q5SWL8|PRA19\_HUMAN PRAME family member 19 OS=Homo sapiens GN=PRAMEF19 PE=3 SV=2

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FPCLPLGSLMKTDPLEILHYVVDGIDCLLAQKVRPRRWKLQVLEMRDVENFWTIWSGAR  
PLSCSPEAMSKRQTVEDCPRTGEKQPLKVFMDVCLKEKSVD EDL SFFSGWVQHRRRSVHL  
CCTKVVNYSMNILNFRNILETVYPDSIQVLEIWNMCWPCMVAEVSRYSQMKNLRKLFIS  
DGCGYLP SFESQQLVAEFSSVFLRLEYLQMLYMRRIRFFEGYLDQLIRCLKSPLETLAL  
TYGSLDEEDLKCLPWYPSLSQLKQLNLSHGTLRFIRLEPLRALLEKVAATLQTLFLVDCG  
IGDSKLRVILPALSRCSNLTTFCFHGNDTSM DGLKDLLRHTGRLSNLSLETYPAPRESLD  
NRGRVISELLTPLQAELMRILREVREP NRIFFGPVSCPCCGMSPTQE LFNFLGRPA

>sp|O75915|PRAF3\_HUMAN PRA1 family protein 3 OS=Homo sapiens GN=ARL6IP5 PE=1 SV=1

MDVNIAPLRAWDDFFPGSDRFARPD FRDISKWNRRVSNLLYYQTNYLVAAMMISIVGF

LSPFNMLGGIVVVLVFTGFVWAAHNKDVLRRMKRYPTTFVMVVMLASYFLISMFGGVM  
VFVFGITFPLLLMFIHASLRLRLNKNLENKMEGIGLKRTPMGIVLDALEQQEEGINRLT  
DYISKVKE

>sp|P02812|PRB2\_HUMAN Basic salivary proline-rich protein 2 OS=Homo sapiens GN=PRB2 PE=1  
SV=3

MLLILLSVALLALSSAQNLNEDVSQEESPSLIAGNPQGAPPQGGNKPQGPPSPPGKPQGP  
PPQGGNQPGPPPPPGKPQGPPPGGKNKPQGGPPPGKPQGGDKSRSPRSPGKPQG  
PPPQGGNQPGPPPPGKPQGPPPGGKNKPQGGPPPGKPQGGDNKSRSSRSPGKP  
QGPPPGGKNQPGPPPPGKPQGPPPGGKNKPQGGPPPGKPQGGDNKSQSARSPPG  
KPQGPPPGGKNQPGPPPPGKPQGPPPGGKNKSQGGPPPGKPQGGPSKSRSSRSP  
PGKPQGGPPPGGKNQPGPPPPGKPQGPPPGGKNKPQGGPPPGKPQGGPSKSR SAR  
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>sp|P48634|PRC2A\_HUMAN Protein PRRC2A OS=Homo sapiens GN=PRRC2A PE=1 SV=3

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QPKRPPAAPENTPLVPSGVKSWAQASVTHGAHGDGGRASSLLSRFSREEFPTLQAAGDQD  
KAAKERESAEESSGPGPSLRPNSTTWRDGGGRGPDELEGPD SKLHHGHDPRGGLQPSGP  
PQFPYRGMPPFMYPYLPFPYYPYGPQGYRYPTPDGPSRFPRVAGPRGSGPPMRLVEP  
VGRPSILKEDNLKEFDQLDQENDGWAGAHEEVDYTEKLKFSDEEDGRDSDEEGAEGHRD  
SQSASGEERPPEADGKGNPNSEPTPKTAWAETSRPETEPGPPAPKPLPPPHRGPA  
GNWGPPGDYDPRGGPPCKPPAPEDEDEAWRQRRKQSSSEISLAVERARRRREEEERRMQE  
ERRAACAEKLRLEKFGAPDKRLKAEPAAAPSTPAPPAVPKELPAPPAPPASAP  
TPETEPEEPAQAPPAQSTPTPGVAAAAPT LVSGGGSTSSSSGSFEASVPEPQLPSKEGPE  
PPEEVPPPTTPPVKVEPKDGIGPTRQPPSQGLGYPKYQKSLPPRFQRQQEQQLLKQQQ  
QHQQWQHQQGSAPPTVPPSPQPVTLGAVPAPQAPPPPKALYPGALGRPPPMPPMNF  
PRWMMIPPYVDPRLQLGRPPLDFYPPGVHPSGLVPRERSDSSGSSSEPFDRHAPAMLRER  
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FPENGAPGPPISRPLEEPGRPLPWPPGSDEVAKIQTTPPKKEPPKEETAQLTGPEAGR  
KPARGVGSGGQPPPPRRESRTETRWGPRPGSSRRGIPPEEGAPRRRAGPIKKPPPPTK  
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TSCRGRGRGEYFARGRGRGTYYGGRGRGARSREFRSYREFRGDDGRGGGTGGPNHPPAPR  
GRTASETRSEGEYEEIPKRRRQRGSETGSETHESDLAPSDKEAPTKEGTLTQVPLAPP  
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KQERENAAARGSEKPSLTLPASAPGPEEALTTVTVAPAPRRAAKSPDL SNQNSDQANEE  
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SKRSFSSQRPGMERQNNRPGPGGKAGSSGSSSGGGGGGPGGRTGPGRGDKRSWPSPKNRS  
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PGLPQAPQGPSRPPTRYEPQRVNSGLSSDPHFEEPGPMVRGVGGTTPRDSAGVSPFPKR  
RERPPRKPELLQEESLPPPHSSGFLGSKPEGPGQAESRDTGTEALTPHIWNRLHTATSR  
KSYRPSMEPWMEPLSPFEDVAGTEMSQSDSGVDLSGDSQVSSGPCSQRSSPDGGLKGA  
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TDRGTEPGPIRPSHRPGPPVQFGTSDKSDLRLLVVGDSLKAEKELTASVTEAIPVSRDWE  
LLPSAAASAEPQSKNLD SGHCVPPESSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPN



SGGFRPGTPSLHPYRSQPLYLPPGPAPPSALLSGLALKGQFLDFSTMQATELGKLPAGGV  
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LPMVDSQLPVVNFGLPPAPPPAPPPLSLLPVGPALQPPSLAVRPPAPATRVLPSPARP  
FPASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTGRSFSGLNSRLKATPSTYSGV  
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>sp|Q5JSZ5|PRC2B\_HUMAN Protein PRRC2B OS=Homo sapiens GN=PRRC2B PE=1 SV=2  
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QDKAGKEKGVLDLSYGPGPSLRPQNVTSWREGGGRHIIISATSLSTSPTELGSRNSSTGDG  
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KAGEARKQAEKEVPWSPSAEKASQENGPAVHKGSPEFPAQETPTTFPEEAPTVSPAVAQ  
SNSSEEEAREAGSPAQEFKYQKSLPPRFQRQQQQQQEQLYKMQHWQPVYPPPSHPQRTF  
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SEDQNCVPPLQERKVTPIDSPVWSPEGYMALQSKGYPLPHPKSSDTLAMDMRVRNESSF  
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GAPGGHTQNLRCSPLEPDFVPDEKKPECGSWDVSHQPETADTAHGVERETPREGTAFNIS  
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KIKQELGEESTRLAKEKEQSPTAEKDEDEENDASLANSSTTTLEDKGPGHATFGREATKF  
EEEEKPKAWEARPPRESSDVPPMKRNNWIFIDEEQAFGVRGQARGRGRGFREFTFRGRP  
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YEELPKRRRRQRGSENGEGLLEREESTLKKGDCRDSWRSNKGCSHGLDAKSRGPRA  
FGRALPPRLSNCGYGRRTFVSKESPHWQSKSPGSSWQYGPSDTGSRRTDRDYVPDSY  
RHPDAFGGRGFEDSRAEDKRSFFQDEHVADSENAENRPFRRRRPRQDKPPRFRLRQER  
ESLGLWGPEEEPHLLAGQWGRPKLCSGDKSGTVGRRSPELSYQNSSDHANEWETASES  
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ADLPEASSKKAKEAKLAAPRAGEQGEAMKQFDLNYGSAI IENCGSSPGEESEVGS MVGE  
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SSLGTEIWESSQALPVQAPANDSWRKAVTAFSSTETGSAEQGFKSSQGD SGVDLSAESR  
ESSATSSQRSSPYGTLKPEEMSGPGLAEPKADSHKEQAPKPSEQKDSEQSGQSKEHRPG  
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VSQSQEIFFSSLQPFRSQVYMHPSLSPSTMILSGGTALKPPYSAFPGMQPLEMVKPQSGS  
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GQSLSVGAPRRIPPPGSGPPVLNTSREPSQMEMKGFHFADSKQNVPSGGPVPSPTYRPS  
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AVKVEESKA

>sp|P57071|PRDM15\_HUMAN PR domain zinc finger protein 15 OS=Homo sapiens GN=PRDM15 PE=1 SV=4

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ARGGPWTPNPAFREAESWSQIGNQRVSEQLLETSLGNEVSDTEPLSPASAGLRRNPALPP  
GPFAQNFSWGNQENLPPALGKIANGGGTGAGKAECGYETESHLLPEHEIPLNVNTHKFSD  
CEFPYEFCTVCFSPFKLLGMSGVEGVWNQHSRSASMHTFLNHSATGIREAGCRKDMPVSE  
MAEDGSEEIMFIWCEDCSQYHDSECPELGPVVMKDSFVLSRARSWPASGHVHTQAGQGM  
RGYEDRDRADPQQLPEAVPAGLVRRLSGQQLPCRSTLTWGRLCHLVAQGRSSLPPNLEIR  
RLEDGAEGVFAITQLVKRTQFGPFESRRVAKWEKESAFPLKVFKDGHVPVCFDTSNEDDC  
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GSGVHAAGTPENSAPVESEPSQWACKVCSATFLELQLLNEHLLGHLEQAQSLPPGSQSEA  
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HGIRRLIKQLGEHKRVYQCNICKSIFQNSSNLSRHVRSHGDKLFKCECAKLFSTRKESL  
KQHVSYKHSRNEVDGEYRYRCGTCEKTFRIESALEFHNCRTDDKTFQCEMCFRFFSTNSN  
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PSGCPVCGKVFSCRNMNKHLLTHGDKKYTCCEICGRKFFRVDVLRDHIHVHFKDIALMDD  
HQREEFIGKIGISSEENDDNSDESADSEPHKYSCKRCQLTFGRGKEYLKHIMEVHKEKGY  
GCSICNRRFALKATYHAHMV IHRENLPDPNVQKYIHPCEICGRIFNSIGNLERHKL IHTG  
VKSHACEQCGKSFARKDMLKEHMRVHDNVREYLCAECGKGMKTKHALRHHMKLHKGIKEY  
ECKECHRRFAQKVNMLKHCKRHTGIKDFMCELCGKTFSERNTMETHKL IHTVGKQWTCSV  
CDKKYVTEYMLQKHVQLTHDKVEAQSCQLCGTKVSTRASMSRHMRRKHPEVLAVRIDDL  
HLPETTTIDASSIGIVQPELTLEQEDLAEGKHGKAARKSHKRKQKPEEEAGAPVPEDATF  
SEYSEKETEF TGSGVDETNSAVQSIQQVVVTLGDPNVTPSSSVGLTNITVTPITTAAT  
QFTNLQPVAVGHLTTPERQLQLDNSILTVTFDTVSGSAMLHNRQNDVQIHPQPEASNPQS  
VAHFINLTTLVNSITPLGSQLSDQHPLTWRAVPQTDVLPSPQPAPPQAAQPVQVQAEQQ  
QQQMYSY

>sp|O15534|PER1\_HUMAN Period circadian protein homolog 1 OS=Homo sapiens GN=PER1 PE=1 SV=2

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ESRGASQRSSSHSSSGNGKDSALLETTESSKSTNSQSPSPSSSIAYSLLSASSEQDNPS  
TSGCSSEQSARARTQKELMTALRELKLRLPPERRGKGRSGTLATLQYALACVKVQANQE  
YYQQWSLEEGEPCSDMSTYLTLEELEHITSEYTLQNQDTFSVAVSFLTGRIVYISEQAAV  
LLRCKRDVFRGTRFSELLAPQDVGVFYGSTAPSR LPTWGTGASAGSGLRDFTQEKSVFCR  
IRGGPDRDPGPRYQPFRLTPYVTKIRVSDGAPAPCCLLIAERIHSGYEAPRIPPDKRIF  
TTRHTPSCLFQDVDERAAPLLGYLPQDLLGAPVLLFLHPEDRPLMLAIHKKILQLAGQPF  
DHSPIRFCARNGEYVTMDTSWAGFVHPWSRKVAFVLGRHKVRTAPLNEDVFTPPAPSPAP  
SLDTDIQELSEQIHRLLLQPVHSPSTGLCGVGAVTSPGPLHSPGSSSDSNGGDAEGPGP  
PAPVTFQQICKDVHLVKHQGQQLFIESRARPQSRPRLPATGTGKAKALPCQSPDPELEAG  
SAPVQAPLALVPEEAERKEASSCSYQQINCLDSILRYLESCNLPSTTKRKCASSSSYTTS  
SASDDDRQRTGPVSVGTKKDPSPAALSGEGATPRKEPVVGGTLSPLALANKAESVSVTS  
QCSFSTIVHVGDKKPESDIIMMEDLPGLAPGPAPSPAPSPPTVAPDPAPDAYRPVGLTK  
AVLSLHTQKEEQAFLSRFRDLGRLRGLDSSSTAPSALGERGCHHGPAPPSRRHHCRSKAK

RSRHHQNPRAEAPCYVSHSPVPPSTPWPTTPATTPFAVVQPYPLPVFSPRGGPQPLPP  
APTSVPAAAFAPLVTMVALVLPNYLFPTPSSYPYGALQTPAEGPPTPASHSPSPSLPA  
LAPSPPHRPSPLFNSRCSPLQLNLLQLEELPRAEGAAGGPGSSAGPPPPSAEAAEP  
EARLAEVTESSNQDALSGSDLLLELLQEDSRSGTGAASGLGSLGSGSGSGSHEGGS  
TSASITRSSQSSHTSKYFGSIDSEAEAGAARGGAEPGDQVIKYVLQDPIWLLMANADQR  
VMPTYQVPSRDMTSVLKQDRERLRAMQKQPRFSEDQRRELGAHVSWVRKGQLPRALDVM  
ACVDCGSSTQDPGHPDDPLFSELDGLGLEPMEEGGGEQGSSGGSGEGEGCEEAQGGAKA  
SSSQDLAMEEEEEGRSSSPALPTAGNCTS

>sp|O15055|PER2\_HUMAN Period circadian protein homolog 2 OS=Homo sapiens GN=PER2 PE=1  
SV=2

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SGKELGMLVEPPDARQSPDTFSLMMAKSEHNPTSGCSDQSSKVDTHKELIKTLKELKV  
HLPADKKAKGKASTLATLKYALRSVKQVKANEEYYQLMSSEGHPCGADVPSYTV EEMES  
VTSEHIVKNADMFAVAVSLVSGKILYISDQVASIFHCKRDAFSDAKFVEFLAPHDVGVFH  
SFTSPYKLP LWSMCSGADSFTQECMEESFFCRVSVRKSHENEIRYHPFRMTPYLKVRD  
QQGAESQLCCLLLAERVHSGYEAPRIPPEKRIFTTHTPNCLFQDVERAVPLLGYLPQD  
LIETPVLVQLHPSDRPLMLAIHKILQSGGQPFDYSPIRFRANGEYITLDTSWSSFNP  
WSRKISFIIGRHKVRVGPLNEDVFAAHPCTEEKALHPSIQELTEQIHRLLLQVPVPHSGSS  
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KKLGLTKEVLAHTQKEEQSFLQKFKEIRKLSIFQSHCHYYLQERSKGQPSERTAPGLRN  
TSGIDSPWKKTGKNRKLKSKRVKPRDSSESTGSGGPVSARPLVGLNATAWSPSDTSQSS  
CPAVFPFAPVPAAYSLPVFPAPGTVAAPPAPPHASFTVPAVPVDLQHQFAVQPPFPAPL  
APVMAFMLPSYFSPSGTPNLPQAFFPSQPQFP SHPTLTSEMASASQPEFPSRTSIPRQPC  
ACPATRATPPSAMGRASPPLFQSRSSPLQLNLLQLEEAPEGGTGAMGTGATETA AVGA  
DCKPGTSRDQPKAPLTRDEPSDTQNSDALSTSSGLLNNLLNEDLCSASGSAASESLGSG  
SLGCDASPSGAGSSDTSHTSKYFGSIDSENHAKMNTGMESEHFICKVLQDPIWLLM  
ADADSSVMPTYQLPSRNLEAVLKEDREKLKLQKLQPRFTESQKQELREVHQWMQTGGLP  
AAIDVAECVYCENKEKGNICIPYEEDIPSLGLSEVSDTKEDENGSPLNHRIEEQT

>sp|Q9H720|PG2IP\_HUMAN PGAP2-interacting protein OS=Homo sapiens GN=CWH43 PE=2 SV=2

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WKLVNKKWMLTLLRIITIGSIAFQAPNAKLRLMV LALGVSSSLIVQAVTWWSGSHLQRY  
LRIWGFILGQIVLVLRIWYTSLNPIWSYQMSNKVILTLAATLDRIGTDGDCSKPEEK  
KTGEVATGMASRPNWLAGAAGFSLVFLTHWVFGEVSLVSRWAVSGHPHPGDPNPF GGA  
VLLCLASGLMLPSCLWFRGTGLIWWVTGTASAAGLLYLHTWAAAVSGCVFAIFTASMWPQ  
TLGHLINSGTNPGKTM TIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMM LII  
GLNMLFGPKKNL DLLLTQTKNSSKVLFRKSEKYMKLFLWLLVGVGLLGLRHKAYERKLG  
KVAPTKEVSAAIWPF RFGYDNEGWSLERSAHLNETGADFITILES DASKPYMGNNDLT  
MWLGEKLG FYTDFGPSTRYHTWGIMALSRYPVKSEHHLLPSPEGEIAPAITLT VNISGK  
LVDFVVT HFGNHEDDLDRKLQAI AVSKLLKSSSNQVIFLGYITSAPGSRDYLQLTEHGNV  
KDIDSTDHDRWCEYIMYRGLIRLGYARISHAELSDSEIQMAKFRIPDDPTNYRDNQKVVI  
DHREVSEKIHFNPRFGSYKEGHNYENNHHFHMNTPKYFL

>sp|Q9NRX4|PHP14\_HUMAN 14 kDa phosphohistidine phosphatase OS=Homo sapiens GN=PHPT1 PE=1 SV=1

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SGDMQKQGCDCECLGGGRISHQSQDKKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEVTW  
ANDGY

>sp|O14813|PHX2A\_HUMAN Paired mesoderm homeobox protein 2A OS=Homo sapiens GN=PHOX2A PE=1 SV=2

MDYSYLSYDSCVAAMEASAYGDFGACSQPGGFQYSPLRPAFPAAGPPCPALGSSNCALG  
ALRDHQPPAPYSAVPYKFFPEPSGLHEKRRQRRIRTTFTSAQLKELERVFAETHYPDIYTR  
EELALKIDLTEARVQVWFQNRRAKFRKQERAASAKGAAGAAGAKKGEARCSSEDDDSKES  
TCSPTPDSTASLPPPPAPGLASPLSPSPLPVALGSGPGPGPGPQLKGALWAGVAGGGG  
GGPGAGAAELLKAWQPAESGPGPFSGVLSSFHRKPGPALKTNLF

>sp|A4QPH2|PI4P2\_HUMAN Putative phosphatidylinositol 4-kinase alpha-like protein P2 OS=Homo sapiens GN=PI4KAP2 PE=5 SV=3

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EIFSSLLQRSMNLNIGRAKGSNNRHVAAIGPRFKLLTLGLSLLHADVVPNATIRNVLREK  
IYSTAFDYFSCPPKFPTQGEKRLREDISIMIKFWTAMFSDKKYLTASQLVPPADIGDLLE  
QLVEENTGSLSGPAKDFYQRGDFFNKITNVAVIKPYPKGDERKKACLSALSEVTVPQG  
CSLPSNPEAIVLDVDYKSGTPMQSAAKAPYLAKFKVKRCGVSELEKEGLRCRSDSEDECS  
TQEADGQKISWQAAIFKLGDCCRQKSYWGARMPTDRILRLPASQDMLALQIIDLFKNIFQ  
LVGLDLFVFPYRVVATAPGCGVIECIPDCTSRDQLGRQTDFGMYDYFTRQYGESTLAFQ  
QARYNFIRSMAAYSLLLFLLQIKDRHNGNIMLDKKGHI IHIDFGFMFESSPGGNLGWEPD  
IKLTDEMVMIMGGKMEATPFKWFMEMCVQATWLCGEPGYMDVVVSLVTIMLDTGLPCFR  
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>sp|A6NC86|PINLY\_HUMAN phospholipase A2 inhibitor and Ly6/PLAUR domain-containing protein OS=Homo sapiens GN=PINLYP PE=2 SV=3

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>sp|AOA0B4J2F0|PIOS1\_HUMAN Protein PIGBOS1 OS=Homo sapiens GN=PIGBOS1 PE=3 SV=1  
MFRRLTFAQLLFATVLGIAGGVYIFQPVFEQYAKDQKELKEKMLVQESEEKKS

>sp|Q9UKF7|PITC1\_HUMAN Cytoplasmic phosphatidylinositol transfer protein 1 OS=Homo sapiens GN=PITPNC1 PE=1 SV=3

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RVYLSNKLPSWARAVVPKIFYVTEKAWNYYPTITEYTCSFLPKFSIHETKYEDNKGSN  
DTIFDNEAKDVEREVCFIDIACDEIPERYYKESEDPKHFKEKTGRGQLREGWRDSHQPI  
MCSYKLVTVKFEVWGLQTRVEQFVHKVVRDILLIGHRQAFWVDEWYDMTMDVREFERA  
TQEATNKKIGIFPPAISISSIPLLPSSVRSAPSSAPSTPLSTDAPEFLSVPKDRPRKKS  
PETLTLPDPEKKATLNLPGMHSSDKPCRPKSE

>sp|Q8NEB9|PK3C3\_HUMAN Phosphatidylinositol 3-kinase catalytic subunit type 3 OS=Homo sapiens GN=PIK3C3 PE=1 SV=1

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PVGGTTVSLFGKYGMFRQGMHDLKVWPVNEADGSEPTKTPGRTSSTLSEDQMSRLAKLTK  
AHRQGHMVKVDWLDRLTFREIEMINESEKRSSNFMYLMVEFRCVKCDDKEYGIVYYEKDG  
DESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSGPSDHLKPNAATRDQLNIIV  
SYPPTKQLTYEEQDLVWKFRYYLTNQEKALTKFLKCVNWDLPQEAQALELLGKWKPMDV  
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DSQSSVSENVNSNGINSAEIDSSQIITSPLPSVSSPPPASKTKEVPDGENLEQDLCTFLI  
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LLAAQQTfVDRLVHLMKAVQRESGNRKKKNERLQALLGDNEKMNLSDVELIPLPLEPQVK  
IRGIIPETATLFSALMPAQLFFKTEDGGKYPVIFKHGDDLQDQLILQIISLMDKLLRK  
ENLDLKLTPYKVLATSTKHGFMQFIQSVPAEVLDTESIQNFFRKYAPSENGPNGISAE  
VMDTYVKSCAGYCVITYILGVGDRHLDNLLLTKTGKLFHIDFGYILGRDPKPLPPPMKLN  
KEMVEGMGGTQSEYQEFQRKQCYTAFLHLRRYSNLILNLFSLMVDANIPDIALEPDKTVK  
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>sp|000329|PK3CD\_HUMAN Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit  
delta isoform OS=Homo sapiens GN=PIK3CD PE=1 SV=2

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RKLTDELFLQYLLQLVQVLKYESYLDCELTkFLLDRALNRKIGHFLFWHLRSEMHVPSV  
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IRESGQLFHIDFGHFLGNFKTKFGINRERVPFILTDFVHVIQQGKTNNSEKFERFRGYC  
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>sp|Q9ULU4|PKCB1\_HUMAN Protein kinase C-binding protein 1 OS=Homo sapiens GN=ZMYND8 PE=1  
SV=2

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GQVDARFFGQHDRAWVPINNCYLMSKEIPFSVKKTKSIFNSAMQEMEYVENIRRKFGVF  
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>sp|P98161|PKD1\_HUMAN Polycystin-1 OS=Homo sapiens GN=PKD1 PE=1 SV=3

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NLSGNPFECDCGLAWLPRWAEQQVRVQPEAATCAGPGSLAGQPLLGIPLLDSCGGEY  
VACLPDNSSGTVAAVSFSAHEGLLQPEACSAFCFSTGGLAALSEQGWCLCGAAQPSSA  
SFACLSLCSGPPPPAPTGRGPTLLQHVFPAASPGATLVGPHGPLASGQLAAFHIAAPLPV  
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LVCPSSVQSDESLDLISQNRGGSGLEAAYSIVALGEEPARAVHPLCPDTEIFPGNGHCY  
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AGPGALLHCSPAPGHPGRAPYLSANASSWLPHLPAQLEGTWACPACALRLLAATEQLTV  
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HLSPLL CVGLWALRLWGALRLGAVILRWRYHALRGELYRPAWEPQDYEMVELFLRRLRLW  
MGLSKVKEFRHKVRFEGMEPLPSRSSRGSKVSPDVPPPSAGSDASHPSTSSQLDGLSVS  
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>sp|Q96PX9|PKH4B\_HUMAN Pleckstrin homology domain-containing family G member 4B OS=Homo  
sapiens GN=PLEKHG4B PE=1 SV=4

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TPNCVPVEGPGCTKEEDVLASSACVSTDGGS LHCHNPSGSDV PARQPHPEQEGWPPGTG  
DFPSQVPKQVLDV SQELLQSGVVTLPGTRDRHGRAVVQVRTRSLLTREHSSCAELTRLL  
LYFHSIPRKEVRDLGLVVLVDARRSPAAPAVSQALSGLQNTSPIIHSILLVVKESA  
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IFLQNSFCSLNTHRTPTAQEVAELIDQHETMMKLVLEDPLLVSRLRLEGGTVLARLRREE  
LGTEDSRDTLEAATSLYDRVDEEVHRLVLTSSNNRLQQLEHLRELASLLEGNDQQSCQKGL  
QLAKENPQRTEEMVQDFRRGLSAVVSQAECREGE LARWTRSEL CETVSSWMGPLDPEAC  
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FGMYVIYSKNKPQSDALLSSHGNAFFKDKQRELGDKMDLASYLLRPVQRVAKYALLQD  
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DEFIVCCGRKKYLRHVFLFEDLILFSKTQKVEGSHDVLYKQSFKTAEIGMTENVGDS  
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IGNQPFMDVKPRDRTPDCAVISDRAPKCAVMSDRVPDSIVKGTESQMRGSTAVSSSD  
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>sp|Q9HB20|PKHA3\_HUMAN Pleckstrin homology domain-containing family A member 3 OS=Homo sapiens GN=PLEKHA3 PE=1 SV=2

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FKPEMFQLHHPDPLVSPVSPSPVQMMKRSVSHPGSCSSERSSSHSIKEPVSTLHRLSQRRR  
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>sp|Q9HAU0|PKHA5\_HUMAN Pleckstrin homology domain-containing family A member 5 OS=Homo sapiens GN=PLEKHA5 PE=1 SV=1

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MINEASNYNVTSDYAVHPMSPVGRTSRASKKVHNF GKRSNSIKRNP NAPVVRGWLKQD  
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GSHFPVGVPPRAKSPTPESSTIASYVTLRKTCKMMDLRTERPRSAVEQLCLAESTRPRM



TVEEQMERIRRHQQACLRKKKGLNVIGASDQSPLQSPSNLRDNPFRTTQTRRRDDKELD  
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>sp|Q9H8W4|PKHF2\_HUMAN Pleckstrin homology domain-containing family F member 2 OS=Homo sapiens GN=PLEKHF2 PE=1 SV=1

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>sp|A1L390|PKHG3\_HUMAN Pleckstrin homology domain-containing family G member 3 OS=Homo sapiens GN=PLEKHG3 PE=1 SV=1

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GELVLEGTFRVHRVRNERTFFLFDKTLITKKRGDHFVYKGNIPCSSMLIESTRDSLFCF  
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>sp|Q58EX7|PKHG4\_HUMAN Puratrophin-1 OS=Homo sapiens GN=PLEKHG4 PE=1 SV=1

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TFFKDKQQALGDHLDLASYLLKPIQRMGKYALLLQELARACGGPTQELSALREAQSLVHF  
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GPTGVDTFAYKRSFKMADLGLTECCGNSNLRFEIWFRRRKARDTFVLQASSLAIKAWTA  
DISHLLWRQAVHNKEVRMAEMVSMGVGNKAFRDIAPSEEAINDRTVNYVLKCREVRSRAS  
IAVAPFDHDSL YLGASNSLPGDPASCSVLGSLNLHL YRDPALLGLRCPLYSPFEEAALE  
AEAELGGQPSLTAEDSEISSQCPSASGSSGSDSSCVSGQALGRGLEDLPCV

>sp|Q8IVE3|PKHH2\_HUMAN Pleckstrin homology domain-containing family H member 2 OS=Homo sapiens GN=PLEKHH2 PE=1 SV=2

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QQVQVMEDKLKAANIQTSESETRLYNKCDLESLEKDDVIQNLELQLEEQQKIRIQEA  
KIIIEKAAKIKEWTVKLNLELENQNLRLINQNQTEEIRTMQSKLQEVQGKSSTVSTL  
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QVLENNRGQRTLHQTPCGSEQNRKTRTSFATDGGISQNSGAPVSDWSSDEEDGSKGRSKS  
RCTSTLSSHTSEEGVQCSRMGSEMYLTASDDSSSIFEEETFGIKRPEHKKLYSWQQAQW  
KALNSPLGKGNSSELSKKEQDSSSELDNKKFQSQRLDYSSSSSEANTPSPILTPALMPKHP  
NSLSGKGTQLVPSSHLPPPKLRIPNVFSISVALAKRHLSQPQLSSDRMFGTNRNAISMIR  
PLRPQETDLDLVDGDSTEVLENMDTSCDDGLFSYDSLSPNSDDQEHCDSAKKVAYSKPP  
TPPLHRFPWSERIIYAVAKSGIRMSEAFNMESVNKNSAATLSYTTSGLYTSLIYKNMTP  
VYTTLKGKATQISSSPFLDSSGSEEDSSRSSRTSESDSRSRSGPGSPRAMKRGVSLS  
SVASESDYAIPPDAYSTDTEYSQPEQKLPKTCSSSSDNGKNEPLEKSGYLLKMSGKVKSW  
KRRWFVLKGGELLYKSPSDVIRKPQGHIELSASCSILRGDNKQTVQLTEKHTYYLTAD  
SPNILEEWIKVLQNVLRVQAANPLSLQPEGKPTMKGLLTKVKHGYSKRVWCTLIGKTLYY  
FRSQEDKFPLGQIKLWEAKVEEVDRCSDSEDEYEASGRSLLSTHYTIVIHPKDQGPTYLL  
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ISPLTTLPSALQTEAIKLFKTCQLFINAAVDSPAIDYHISLAQSALQICLTHPELQNEI  
CCQLIKQTRRRQPQNQPGLQGWQLLALCVGLFLPHHPFLWLLRLHLKRNADSRTEFGKY  
AIYCQRCVERTQQNGDREARPSRMEILSTLLRNPYHHSLPFSPVHFMMNGIYQVVGFDAS  
TTVEEFLNTLNQDTGMRKPAQSGFALFTDDPSGRDLEHCLQGNIKICDIISKWEQASKEQ  
QPGKCEGTRTVRLTYKNRLYFSVQARGETDREKLLMYQTNDQIINGLFPLNKDLALEMA  
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STRWMALRGHSAADCVRYYLTVARKWPFPGAKLFLAKPITPSSLGSTFLWLAVHEDGLSL  
LEYNSMRLIVSYVYKSLMTFGGYQDDFMVVINNTHSKDKPTEKLLFAMAKPKILEITLLI  
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>sp|Q7Z736|PKHH3\_HUMAN Pleckstrin homology domain-containing family H member 3 OS=Homo sapiens GN=PLEKHH3 PE=1 SV=2

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WVFLTRDSLDQFSSSGKGARRLGLVLTSLCSVTGPERRRKETGLWSVTVSGRKHSVRLC  
SPRQAEAEERWGVALREVIASKAPLETPTQLLLRDIQESCGDPEAVALIYLRNPILRHTSG

ALYAPLLPLPYGVSAPGPGYAPLREEAVRLFLALQALEGARRPGPLMQGVLQTCRDLPAL  
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EQALPDSELAEYARFIRKALGRTRGRELVPSLAEISALSQRQELLCTVHCPGAGACAVAI  
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AARYDVLELSTEPGRGAPQKLCLGLGAKAMSLSRPGETEPIHSVSYGHVAACQLMGPHTL  
ALRVGESQLLLQSPQVEEIMQLVNAYLANPSPERPCSSSSPPCQDL PDTSPPSQRPGLDE  
PQQQSGCLGQLQD

>sp|Q16513|PKN2\_HUMAN Serine/threonine-protein kinase N2 OS=Homo sapiens GN=PKN2 PE=1  
SV=1

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TPDTPNNDPRCSTSNRLKALQKQLDIELKVKQGAENMIQMYSNGSSKDRKLHGTAQQLL  
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KLLGSGKVTDRKALSEAQARFNESSQKLDLLKYSLEQRLNEVPKNHPKSRIIEELSLVA  
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PSETRSSFMSRTSKSKSGSSRNLLKTDDLSDNCVAVLKLDNTVVGGTQSWKPI SNQSWDQK  
FTLELDRSRELEISVYWRDWRLCAVKFLRLEDFLDNQRHGMCLYLEPQGTLFAEVTFFN  
PVIERRPKLQRQKKIFSKQGGKTFRLAPQMNIATWGRLVRRAIPTVNHSGTFSPQAPV  
PTTVPVVDVRIPQLAPPASDSTVTKLDFDLEPEPPPAPPRASSLGEIDESSELRLVDIPG  
QDSETVFDIQNDRNSILPKSQSEYKPDTPQSGLEYSGLQELEDRRSQRFQFNLQDFRCC  
AVLGRGHFGKVLALAEYKNTNEMFAIKALKKGDIVARDEVDSLMEKRI FETVNSVRHPFL  
VNLFACFQTKHEVCFVMEYAAGGDLMMHIHTDVFSEPRAVFYAACVVLGLQYLHEHKIVY  
RDLKLDNLLDTEGVFKIADFGLCKEGMGYGDRSTSTFCGTPEFLAPEVLTETSYTRAVDW  
WGLGVLIYEMLVGESPFPGDDEEEVFDSIVNDEVRYPRFLSTEAISIMRLLRRNPERRL  
GASEKDAEDVKKHPFRLIDWSALMDKKVKPPFIPTIRGREDEVSNFDDEFTSEAPILTPP  
REPRILSEEEQEMFRDFDYIADWC

>sp|P55347|PKNX1\_HUMAN Homeobox protein PKNX1 OS=Homo sapiens GN=PKNX1 PE=1 SV=3

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HPLFPLLALLFEKCEQSTQGSEGTTSASFDVDIENFVRKQEKEGKPFCEPETDNLNVK  
AIQVLRHLLLEKVNELCKDFCSRYIACLKTKMNSETLLSGEPGSPYSPVQSQQIQSAI  
TGTISPQGIVVPASALQQGNVAMATVAGGTVYQPVTVVTPQGQVVTQTLSPGTIRIQNSQ  
LQLQLNQDLSILHQDDGSSKNKRGVLPKHATNVMRSWLFQHIGHPYPTDEKKQIAAQTN  
LTLLQVNNWFINARRRILQPMLDSSCSETPKTKKKTAQNRPVQRFPDSIASGVAQPPPS  
ELTMSEGAVVTITTPVNMNVDLSQLSSDGATLAVQQVMMAGQSEDESVDSTEEDAGALA  
PAHISGLVLENSDSLQ

>sp|Q8NFJ6|PKR2\_HUMAN Prokineticin receptor 2 OS=Homo sapiens GN=PROKR2 PE=1 SV=1

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AGIMLVCGIGNVFVIAALTRYKKLRNLNLLIANLAISDFLVAIICCPFEMDYVVRQLS  
WEHGHVLCASVNYLRTVSLYVSTNALLAIAIDRYLAIVHPLKPRMNYQTASFLIALVWMV  
SILIAIPSAYFATETVLFIVKSQEKIFCGQIWPVDQQLYKSYFLIFGVEFVGPVVTMT  
LCYARISRELWFAVPGFQTEQIRKRLRCRRKTVLVLMCILTAYVLCWAPFYGFTIVRDF

FPTVFVKEKHYLTAFYVVECIAMNSMINTVCFVTVKNNTMKYFKKMMLLHWRPSQRGSK  
SSADLDLRTNGVPTTEEVDCIRLK

>sp|Q8WY50|PLAC4\_HUMAN Placenta-specific protein 4 OS=Homo sapiens GN=PLAC4 PE=2 SV=2  
MKELLRLKHCKHLLTTHVHSPWTPSLTLTPSLLTLDLTHPRHRHSSPWTPHSAPWTPSL  
TLDTFTHPDTLTHPGHPSPWIPSLTLDLTHPGYPHSSPWTLSTLTPSILTLDLSTP  
HPGLPHSSPWTPSLLILDLTQTQPGHPHSSP

>sp|Q9NZF1|PLAC8\_HUMAN Placenta-specific gene 8 protein OS=Homo sapiens GN=PLAC8 PE=2  
SV=1  
MQAQAPVVVVVTQPGVGPGPAPQNSNWQTGMCDGSDCGVCLCGTFCFPCLGCQVAADMNE  
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>sp|Q99943|PLCA\_HUMAN 1-acyl-sn-glycerol-3-phosphate acyltransferase alpha OS=Homo  
sapiens GN=AGPAT1 PE=1 SV=2  
MDLWPGAWMLLLLLFLLLLFLLPTLWFCSPSAKYFFKMAFYNGWILFLAVLAIPCAVRG  
RNVENMKILRLMLLHIKYLYGIRVEVRGAHHFPPSQPYVVVSNHQSSLDLLGMMEVLPGR  
CVPIAKRELLWAGSAGLACWLAGVIFIDRKRTGDAISVMSEVAQTLLTQDVRVWVFPEGT  
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>sp|Q9NRZ7|PLCC\_HUMAN 1-acyl-sn-glycerol-3-phosphate acyltransferase gamma OS=Homo  
sapiens GN=AGPAT3 PE=1 SV=1  
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LVMLLEWWSCTECTLFDTQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKV  
LAKKELLYVPLIGTWYFLEIVFCKRKWEEDRDTVVEGLRRLSDYPEYMWFLLYCEGTRF  
TETKHRVSMEVAAAKGLPVLYHLLPRTKGFTTAVKCLRGTVAAVYDVTLNFRGNKNPSL  
LGILYGKKYEADMCVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK  
PARRPWTLNFLSWATILLSPLFSFVLGVFASGSPLLILTFLGVGAASFGVRRLIGVTE  
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>sp|075038|PLCH2\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase eta-2  
OS=Homo sapiens GN=PLCH2 PE=2 SV=3  
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CFSIYHGSHRESLDLVSTSSEVARTWVTGLRYLMAGISDEDSLARRQRTRDQWLKQTFDE  
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RRDLYLLMLTYSNHKDHLDAASLQRFLQVEQKMAGVTLESCQDIIEQFEPCPENKSKGLL  
GIDGFTNYTRSPAGDIFNPEHHHVHQDMTQPLSHYFITSSHNTYLVGDQLMSQSRVDMYA  
WVLQAGCRCVEVDCWDGPDGEPIVHHGYLTLSKILFKDVIETINKYAFIKNEYPVILSIE  
NHCSVIQKKMAQYLTIDLGKLDLSSVSSSEDATTLSPQMLKGKILVKGKKLPANISED  
AEEGEVSDEDSADEIDDDCKLLNGDASTNRKRVENTAKRKLDLSEKIRDCEDPNNFS  
VSTLSPSGKLGRKSKAEEDVESGEDAGASRRNGRLVVGFSFRRKKKGSKLKAASVEEGD  
EGQDSPGGQSRGATRQKKTMLSRALSDLVKYTKSVATHDIEMEAASSWQVSSFSETKAH  
QILQQKPAQYLRFNQQLSRIYPSSYRVDSSNYPQPFWNAGCQMVALNYQSEGRMLQLN  
RAKFSANGGCGYVLKPGCMCQGVFNPNSEDPLPGQLKKQLVLRIISGQQLPKPRDSMLGD  
RGEIIDPFVEVEIIGLPVDCSREQTRVDDNGFNPTWEETLVFMVHMPEIALVRFLVWDH  
DPIGRDFIGQRTLAFSSMMPGYRHVYLEGMEEASIFVHVAVSDISGKVKQALGLKGLFLR  
GPKPGSLDSHAAGRPPARPSVSQRILRRTASAPTKSQKPGRRGFPELVLGTRDTGSKGVA

DDVVP PGPAPEAPAEQEGPGSGSPDRPLSTQRPLPLCSLETIAEEPAPGPGPPPPA  
AVPTSSSQGRPPYPTGPGANVASPLEDTEEPDRSRPRPCNGEGAGGAYERAPGSQTDGRS  
QPRTLGHLPVIRRVKSEGVPTTEPLGGWRPLAAPPAPAVYSDATGSDPLWQRLEPCGHR  
DSVSSSSSMSSSDTVIDLSPSLGLGRSRENLAGAHMGRLP RPHSASAARPDLPVTKS  
KSNPNLRATGQRPP IPDELQPRSLAPRMAGLPFRPPWGCLSLVGVQDCPVAAKSKSLGDL  
TADDFAPSFEGGSRRLSHSLGLPGGTRRVSGPGVRRDTLTEQLRWLTVFQQAGDITSPTS  
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GACSVGHEGSVDAPAPSKGALGPASAAAENLVLLRL

>sp|Q86YW0|PLCZ1\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1  
OS=Homo sapiens GN=PLCZ1 PE=2 SV=1

MEMRWFLSKIQDDFRGGKINLEKTQRLLEKLDIRCSYIHVKQIFKDNDRLKQGRITIEEF  
RAIYRIITHREEIIEIFNTYSENKILLASNAQFLTQEQAEMSKAIAFEIIQKYEPI  
EEVRKAHQMSLEGFTRYMDSRECLLFKNECRKVYQDMTHPLNDYFISSSHNTYLVSDQLL  
GPSDLWGYVSALVKGRCLEIDCWDGAQNEPVVYHGYTLTSKLLFKTVIQAIHKYAFMTS  
DYPVVLSENHCSTAAQEVMA DNLAQTFGESLLSDMLDDFPDTLPSEALKFKILVKNKK  
IGTLKETHERKGS DKRGDNQDKETGVKKLPGVMLFKKKKTRKLKIALALSDLVITYKAEK  
FKSFQHSRLYQQFNENNSIGETQARKLSKLRVHEFIFHTRKFITRIYPKATRADSSNFP  
QEFWNIGCQMVALNFQTPGLPMDLQNGKFLDNGSGYILKPHFLRESKSYFNPSNIKEGM  
PITLTIRLISGIQLPLTHSSSNKGDSLVIIEVFGVPNDQMKQQTRVIKKNFSPRWNETF  
TFIIHVPELALIRFVVEGGLIAGNEFLGQYTLPLLCMNKGYRRIPLFSRMGESLEPASL  
FVYVWYVR

>sp|O14939|PLD2\_HUMAN Phospholipase D2 OS=Homo sapiens GN=PLD2 PE=1 SV=2

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PGVPVTAQVVGTERYTS GSKVGTCTLYSVRLTHGDFSWTTKKYRHFQELHRDLLRHKVL  
MSLLPLARFAVAYSPARDAGNREMPSLPRAGPEGSTRHAASKQKYLENYLNRLLTMSFYR  
NYHAMTEFLEVSQLSFIPDLGRKGLEGMIRKRSGGHRVPGLTCCGRDQVCYRWSKRWLVV  
KDSFLLYMCLETGAISFVQLFDPGFQVVGKRSTEARGVRIDTSHRSLILKCSSYRQAR  
WWAQEITELA QGPGRDFLQLHRHDSYAPPRPGTLARWFVNGAGYFAAVADAILRAQEEIF  
ITDWWLSPEVYLKRPASDDWRDLIMLKRKAEEGVRSILLFKEVELALGINSYSKRAL  
MLLHPNIKVMRHPDQVTLWAHHEKLLVVDQVVAFLGGLDLAYGRWDDLHYRLTDLGDSSE  
SAASQPPTPRPDSPATPDL SHNQFFWL GKDYSNLITKDWWQLDRPFEDFIDRETTPRMPW  
RDVGVVHGLPARDLARHFIQRWNFTKTTKAKYKTPTYPYLLPKSTSTANQLPFTLPGGQ  
CTTVQVLRSDRWSAGTLENSILNAYLHTIRESQHFLYIENQFFISCS DGRTVLNKVGDE  
IVDRILKAHKQGWCYRVYVLLPLLPGFEGDISTGGNSIQAILHFTYRTL CRGEYSILHR  
LKAAMGTAWRDYISICGLRTHGELGGHPVSELIYIHSKVL IADRTV IIGSANINDRSL  
GKRDESELAVLIEDTETEPSLMNGAEYQAGRFALSLRKHC FGVILGANTRPDLDLRDPICD  
DFFQLWQDMAESNANIYEQIFRCLPSNATRLSLREYVAVEPLATVSPPLARSEL TQVQ  
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>sp|Q96BZ4|PLD4\_HUMAN Phospholipase D4 OS=Homo sapiens GN=PLD4 PE=2 SV=2

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GQVQPKDVPRSWEHGSSPAWEPLAEARQQRDSCQLVLVESIPQDLPSAAGSPSAQPLGQ  
AWLQLLDTAQESVHVASYWSLTGPDIGVNDSSSQLGEALLQKLQQLGRNISLAVATSS  
PTLARTSTDQLVLAARGAHVRQVPMGRLTRGVLSKFWVVDGRHIYMG SANMDWRS LTQV  
KELGAVIYNCSHLAQDLEKTFQTYWVLGVPKAVLPKTWPQNFSSHFNRFPFHGLFDGVP

TTAYFSASPPALCPQGRTRDLEALLAVMGSAQEFITYASVMEYFPTTRFSHPPRYWVPLDN  
ALRAAAGKGVRRLLVGCGLNTDPTMFPYLRSLQALSNPAANVSVDVKVFIQVPGNHSN  
IPFSRVNHSKFMVTEKAAAYIGTSNWSYDFSSSTAGVGLVVTQSPGAQPAGATVQEQLRQL  
FERDWSSRYAVGLDGQAPGQDCVWQG

>sp|Q8IUK5|PLDX1\_HUMAN Plexin domain-containing protein 1 OS=Homo sapiens GN=PLXDC1 PE=1  
SV=2

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TQLSQDLGGGTAMDTLPDNRTRVVEDNHSYYVSRLYGPSEPHSRELWVDVAEANRSQVK  
IHTILSNTHRQASRVLSFDFFPYGHPLRQITITATGGFIFMGDVIHRMLTATQYVAPLMA  
NFNPGYSDNSTVVYFDNGTVFVVQWDHVYLQGWEDKGSFTFQAALHHDGRIVFAYKEIPM  
SVPEISSSQHPVKTLSDAFMILNPSPDPVESRRRSIFEYHRIELDPSKVTSMASAVEFTP  
LPTCLQHRSCDACMSSDLTFNCWCHVLQRCSSGFDRYRQEWMDYGCAQEAEGRMCEDFQ  
DEDHDSASPDTSFSPYDGLTTTSSSLFIDSLTTEDDTKLNYPYAGDGLQNNLSPKTKGT  
PVHLGTIVGIVLAVLLVAAIILAGIYINGHPTSNAALFFIERRPHHPAMKFRSHPDHST  
YAEVEPSGHEKEGFMEAEQC

>sp|P02776|PLF4\_HUMAN Platelet factor 4 OS=Homo sapiens GN=PF4 PE=1 SV=2

MSSAAGFCASRPGLLFLGLLLLPLVFAFASAEAEEDGDLQCLCVKTTSQVRPRHITSLEV  
IKAGPHCPTAQLIATLKNRKLCLDLQAPLYKKIICKLLES

>sp|O60240|PLIN1\_HUMAN Perilipin-1 OS=Homo sapiens GN=PLIN1 PE=1 SV=2

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GVQSASSLAAWSMEPVVRLSTQFTAANELACRGLDHLEEKIPALQYPPEKIASSELKDTI  
STRLSARNISISVPIASTSDKVLGAALAGCELAWGVARDTAEFAANTRAGRLASGGADLA  
LGSIEKVVEYLLPPDKESAPAPGHQQAQKSPKAKPSLLSRVGALTNTLSRYTVQTMARA  
LEQGHTVAMWIPGVPLSSLAQWASVAMQAVSRRRSEVRVPWLHSLAAQEEDEHEDQTD  
TEGEDTEEEEELETEENKFSEVAALPGPRGLLGVAHTLQKTLQTTISAVTWAPAAVLGM  
AGRVLHLTPAPAVSSTKGRAMSLSDALKGVTDNVVDTVVHYVPLPRLSLMEPESEFRDID  
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>sp|O60664|PLIN3\_HUMAN Perilipin-3 OS=Homo sapiens GN=PLIN3 PE=1 SV=3

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DAAEKGVRTLAAAVSGAQPILSKLEPQIASASEYAHRLDKLEENLPILQQPTEKVLAD  
TKELVSSKVGSAQEMVSSAKDTVATQLSEAVDATRGAVQSGVDKTKSVVTGGVQSVMSR  
LGQMVLSGVDTVLGKSEEWADNHLPLTDAELARIATSLDGFVASVQQQRQEYSYFVRLG  
SLSERLRQHAYEHSGLKLRATKQRAQEALLQLSQVLSLMETVKQGVQKLVEGQEKLHQM  
WLSWNQKQLQGPEKPPKPEQVESRALTMFRDIAQQLQATCTSLGSSIQGLPTNVKDQVQ  
QARRQVEDLQATFSSIHSFQDLSSSILAQSRERVASAREALDHMVEYVAQNTPVTLVGP  
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>sp|Q9H4B4|PLK3\_HUMAN Serine/threonine-protein kinase PLK3 OS=Homo sapiens GN=PLK3 PE=1  
SV=2

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HIVRFSHHFEDADNIYIFLELCSRKSLAHIWKARHTLLEPEVRYLRQILSGLKYLHQRG  
ILHRDLKLGNFITENMELKVGDFGLAARLEPPEQRKKTICGTPNYVAPEVLLRQGHGPE  
ADVWSLGCVMYTLGSPFPFETADLKETYRCIKQVHYTLPASLSLPAQQLAAILRASPR

DRPSIDQILRHDFFTKGYTPDRLPISSCVTPDLTPPNPARSLFAKVTKSLFGRKKKSKN  
HAQERDEVSGLVSGLMRTSVGHQDARPEAPAASGPAPVSLVETAPEDSSPRGTLASSGDG  
FEEGLTVATTVVESALCALRNCFMPPAEQNPAPLAQPEPLVWVSKWVDYSNKFSGFYQL  
SSRRVAVLFNDGTHMALSANRKTVHYNPTSTKHFSFSGAVPRALQPQLGILRYFASYME  
QHLMKGGDLPSVEEVEVPAPPLLLQWVKTDQALLMLFSDGTVQVNFYGDHTKLILSGWEP  
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>sp|000444|PLK4\_HUMAN Serine/threonine-protein kinase PLK4 OS=Homo sapiens GN=PLK4 PE=1  
SV=3

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ITGMLYLHSHGILHRDLTSLNLLLTRNMNIKADFGLATQLKMPHEKHYTELCGTPNYISP  
EIATRSAGLESVDVSLGCMFYTLIGRPPFDTDVKNLTKNVVLADYEMPSFLSIEAKD  
LIHQLLRRNPADRLSLSSVLDHPFMSRNSSTKSKDLGTVEDSIDSGHATISTAITASSST  
SISGSLFDKRLLIGQPLPNKMTVPKNSSTDFSSSGDGSFYTQWGNQETSNSGRGRV  
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SPTDNNANIFNFFKEKTSSSSGSFERPDNNQALSNHLCPGKTPFPFADPTPQTETVQQWF  
GNLQINAHLRKTTTEYDSISPNRDFQGHPLDKDTSKNAWTDTKVKKNSDASNAHSVKQQ  
NTMKYMTALHKSPEIIQQECVFGSDPLSEQSKTRGMEPPWGYQNRTLRSITSPLVAHRLK  
PIRQKTKKAVVSILDSEEVCELVKEYASQEYVKEVLQISSDGNTITIIYPNGRGFPLA  
DRPPSPTDNISRYSDNLPEKYWRKYQYASRFVQLVRSKSPKITYFTRYAKCILMENSPG  
ADFEVWFYDGVKIHKTEDFIQVIEKTGKSYTLKSESEVNSLKKEIKMYMDHANEGHRICL  
ALESIISEEERKTRSAPFFPIIIGRKPGSTSSPKALSPPPSVDSNYPTRERASFNRVMH  
SAASPTQAPILNPSMVTNEGLGLTTTASGTDISSNSLKDCLPKSAQLLKSFVKNVGWAT  
QLTSGAVVWQFNDGSQLVVQAGVSSISYTSPNGQTTRYGENEKLDPYIKQKLQCLSSILL  
MFSNPTPNFH

>sp|Q02809|PLOD1\_HUMAN Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1 OS=Homo sapiens  
GN=PLOD1 PE=1 SV=2

MRPLLLALLGWLLEAEAKGDAKPEDNLLVLTVA TKETEGFRFRKRS AQFFNYKI QALGL  
GEDWNVEKGTSAGGGQKVRLLKKALEKHADKEDLVILFADSYDVL FASGPRELLKKFRQA  
RSQVVFSAEELIYPDRRLET KYPVVS DGKRFLGSGGFIGYAPNLSKLVAEWEGQDSDSQ  
LFYTKIFLDPEKREQINITLDHRCRIFQNL DGALDEVVLKFEMGHVRARNLAYDTLPVLI  
HGNGPTKLQLNLYGNYIPRFTFETGCTVCDEGLRSLKGIGDEALPTVLVGVFIEQPTPF  
VSLFFQRLLRLHYPQKHMRLF IHNHEQHKAQVEEFLAQHGSEYQSVKLVGPEVRMANAD  
ARNMGADLCRQDRSCITYYFSVDADVALTEPNSLRLLIQQKNVIAPLMTRHGRLWSNFWG  
ALSADGYARSEDYVDIVQGRRVGVWNPYISNIYLKGSALRGELQSSDLFHHSKLDPD  
MAFCANIRQQDVFMFLTNRHTLGHL LSLDSYRTTHLHNDLWEVFSNPEDWKEKYIHQNYT  
KALAGKL VETPCPDVYWFPIFTEVACDELVEEME HFGQWSL GNNKDNRIQGGYENVPTID  
IHMQIGFEREWHKFLLEYIAPMTEKLYPGYYTRAQFDLAFVVRYPDEQPSLMPHHDAS  
TFTINIALNRVGDYEGGGCRFLRYNCSIRAPRKGWTLMHPGRLTHYHEGLPTTRGTRYI  
AVSFVDP

>sp|Q5VZY2|PLPP4\_HUMAN Phospholipid phosphatase 4 OS=Homo sapiens GN=PLPP4 PE=1 SV=2

MRELAIEIGVRALLFGVFVFTEFLDPFQRVIQPEEIWLYKNPLVQSDNIPTRLMF AISFL  
TPLAVICVVKIIRRTDKTEIKEAFLAVSLALALNGVCTNTIKLIVGRPRPDFFYRCFPDG  
VMNSEMHCTGDPDLVSEGRKSFPSIHSSFAFSGLGFTTFYLAGKLHCFTESGRGKSWRLC

AAILPLYCAMMIALSRMCDYKHHWQDSFVGGVIGLIFAYICYRQHYPPLANTACHKPYVS  
LRVPASLKKEERPTADSAPSLPLEGITEGPV

>sp|Q9NRY6|PLS3\_HUMAN Phospholipid scramblase 3 OS=Homo sapiens GN=PLSCR3 PE=1 SV=2

MAGYLPKGYAPSPPPYPVTPGYPEPALHPGPGQAPVPAQVPAPAPGFALFSPGPVAL  
GSAAPFLPLPGVPSGLEFLVQIDQILIHQKAERVETFLGWETCNRYELRSGAGQPLGQAA  
EESNCCARLCCGARRPLRVRLADPGDREVLRLRLHCGCSCCPCGLQEMEVQAPPGTI  
GHVLQTWHPFLPKFSIQDADRQTVLRVVGPCWTCGCGTDTNFEVKTRDESRSVGRISKQW  
GGLVREALTDADDFGLQFPLDLDRVKAVLLGATFLIDYMFEEKRGGAGPSAVTS

>sp|AOPG75|PLS5\_HUMAN Phospholipid scramblase family member 5 OS=Homo sapiens GN=PLSCR5  
PE=2 SV=2

MASKDAQNQRRGLPGFLPGAPDPDQSLPASSNPGNQAWQLSLPLSSFLPTVSLPPGLE  
LSQLDLIIHQVELLGMILGTETSNKYEIKNSLGQRIYFAVEESICFNRTFCSTLRST  
LRITDNSGREVITVNRPLRCNSCWPCYLQELEIQAPPGTIVGYVTQKWDPFPLPKFTIQ  
ANKEDILKIVGPCVTCGCFGDVDFEVKTINEKLTIGKISKYWSGFVNDVFTNADNFGIHV  
PADLDVTVKAAMIGACFLDFMFFEHSAGL

>sp|P13796|PLSL\_HUMAN Plastin-2 OS=Homo sapiens GN=LCP1 PE=1 SV=6

MARGSVSDEEMMELREAFKVDTDGNGYISFNELNDLFKAACLPLPGYRVREITENLMAT  
GDLDQDGRISFDEFIKIFHGLKSTDVAKTFRKAINKKEGICAIGGTSEQSSVGTQHSYSE  
EEKYAFVNWINKALENDPCRHVIPMNPNTNDFNAVGDGIVLCKMINLSVPDTIDERTI  
NKKKLTPTFTIQENLNALNSASAIGCHVVNIGAEDLKEGKPYLVGLLWQVIKIGLFADI  
ELSRNEALIALREGESLEDMLKSPEELLRWANYHLENAGCNKIGNFSTDIKDSKAYY  
HLEQVAPKGDEEGVPAVVIDMSGLREKDDIQRAECMLQQAERLGCRQFVTATDVVRGNP  
KLNLAFIANLFNRYPALHKPENQDIDWGALEGETREERTFRNWMNSLGVNPRVNHLYSDL  
SDALVIFQLYEKIKVPVDWNRVKNPPYPKLGGMKKLENCNYAVELGKNQAKFSLVGIGG  
QDLNEGRTLTALIWQLMRRYTLNILEEIGGGQKVNDIIVNWVNETLREAKSSSISS  
FKDPKISTSLPVLIDLAIQPGSINYDLLKTENLNDDEKLNNAKYAISMARKIGARVYAL  
PEDLVEVNPKMVMVTFACLMGKGMKRV

>sp|P13797|PLST\_HUMAN Plastin-3 OS=Homo sapiens GN=PLS3 PE=1 SV=4

MDMATTQISKDELDELKEAFKVDLNSNGFICDYELHELFEANMPLPGYKVREIIQKL  
MLDGRNKDGKISFDEFVYIFQEVKSSDIKTFRKAINRKEGICALGGTSELSSEGTQHS  
YSEEEKYAFVNWINKALENDPCRHVIPMNPNTDDLKAVGDGIVLCKMINLSVPDTIDE  
RAINKKLTPTFTIQENLNALNSASAIGCHVVNIGAEDLRAGKPHLVGLLWQIIKIGLF  
ADIELSRNEALALLRDGETLEELMKLSPEELLRWANFHLENSGWQKINNFSADIKDSK  
AYFHLLNQIAPKGQKEGEPRIDINMSGFNETDDLKRAESMLQQADKLGCRQFVTPADVVS  
GNPKLNLAFAVANLFNKYPALTKPENQDIDWTLLEGETREERTFRNWMNSLGVNPHVNHLY  
ADLQDALVILQLYERIKVPVDWSKVNKPPYPKLGANMKLENCNYAVELGKHPAKFSLVG  
IGGQDLNDGNQTLTALVWQLMRRYTLNVLEDLGDGQKANDDIIVNWVNRTLSEAGKSTS  
IQSFKDKTISSSLAVVDLIDAIQPGCINYDLVKSGNLTEDDKHNNAKYAVSMARRIGARV  
YALPEDLVEVKPKMVMVTFACLMGRGMKRV

>sp|O95744|PM2P2\_HUMAN Putative postmeiotic segregation increased 2-like protein 2  
OS=Homo sapiens GN=PMS2P2 PE=5 SV=1

MGESSRKPTPTPEGPTVSVKQLFSTLPVRHKEFQRNIKKKRACFPFAFCRDCQFLEGSP  
AMLVQPAKLTEPAKAIKPIDRKSVMHICSGPVVLSLSTAVKKIVGNSLDAGATNIDLKL  
KDYGMDLIEVSGNGCGVEENFEGLSLSALKHHTSKIREFADLTRVETFGFGKALSSLC



ALSDVTISTCHVSAKVGTRLVFDHDGKI IKKTPYPHPRGTTVSVKQLFSTLPVRHKEFQR  
NIKKKRACFPFAFCRDCQFLEGSPAMLPVQPAKLTVTGELRACRSWKTRGITEAVG

>sp|Q13401|PM2P3\_HUMAN Putative postmeiotic segregation increased 2-like protein 3  
OS=Homo sapiens GN=PMS2P3 PE=5 SV=2

MNTLQGPVSFKDVAVDFTQEEWRQLDPDEKIAYGDMLENYSHLVSVGYDYHQAHHHGV  
EVKEVEQGEEPWIMEGEFPCQHSPEPAKAIKPIDRKSVHQICSGPVVLSLSTAVKELVEN  
SLDAGATNIDLKLDYGVDLIEVSDNCGVEEENFEGLISFSSETSHM

>sp|O43808|PM34\_HUMAN Peroxisomal membrane protein PMP34 OS=Homo sapiens GN=SLC25A17 PE=1  
SV=1

MASVLSYESLVHAVAGAVSVTAMTVFFPLDTARLRLQVDEKRKSKTTHMVLEI IKEEG  
LLAPYRGWFPVISSLCCSNFVYFTFNSLKALWVKGQHSTTGKDLVVG FVAGVVNVLLTT  
PLWVVNTRLKLQGA FRNEDIVPTNYKGI IDAFHQI IRDEGISALWNGTFPSLLL VFNPA  
IQMFYEGLKRQLLKKRMKLSSLDVFI IGAVAKAIATTVTYPLQTVQSILRFGRHRLNPE  
NRTLGLSLRNILYLLHQRVRRFGIMGLYKGLEAKLLQTVLTAALMFLVYEKLTAATFTVMG  
LKRAHQH

>sp|Q8WXW3|PIBF1\_HUMAN Progesterone-induced-blocking factor 1 OS=Homo sapiens GN=PIBF1  
PE=1 SV=2

MSRKISKESKKVNISSSLESEDISLETTVPTDDISSSEEREGKVRITRQLIERKELLHNI  
QLLKIELSQKTMIDNLKVDYLT KIEELEEKLNDA LHQKQLLTLRLDNQLAFQQKDASKY  
QELMKQEMETILLRQKQLEETNLQ LREKAGDVRRNLRDFELTEEQYIKLKA FPEQLSIP  
EYVSVRFYELVNPLRKEICELQVKKNILAEELSTKNQLKQLTETYEEDRKNYSEVQIRC  
QRLALELADTKQLIQGDYRQENYDKVKSERDALEQEVIELRRKHEILEASHMIQTKERS  
ELSKEVVTLEQTVTL LQKDKEYLNRQNMELSVRCAHEEDRLERLQAQLEESKKAREEMYE  
KYVASRDHYKTEYENKLHDELEQIRLKTNQEIDQLRNASREMYERENRNLR EARDNAVAE  
KERA VMAEKDALEKHDQLLD RYRELQLSTESKVTEFLHQSKLSFESERVQLLQEETARN  
LTQCQLECEKYQKKLEVLTKEFYSLQASSEKRITELQAQNSEHQARLDIYEKLEKELDEI  
IMQTAEIENEDEAERVLFSYGYGANVPTTAKRRLKQSVHLARRVLQLEKQNSLILKDLEH  
RKDQVTQLSQELDRANSLNQTQQPYRYLIESVRQRDSKIDSLTESIAQLEKDVSNLNKE  
KSALLQTKNQMALDLEQLLNHREELAAMKQILVKMHSKHSENSLLLTKTEPKHVTENQKS  
KTLNVPKEHEDNIFTPKPTLFTKKEAPEWSKKQKMKT

>sp|Q9H5I5|PIEZ2\_HUMAN Piezo-type mechanosensitive ion channel component 2 OS=Homo  
sapiens GN=PIEZ02 PE=1 SV=2

MASEVVCGLIFRLLL PICLAVACAFRYNGLSFVYLIYLLLIPLFSEPTKTTMQGHTGRLL  
KSLCFISLSFLLLHIIFHITLVSLAQHRIAPGYNCSTWEKTFRQIGFESLKGADAGNGI  
RVFVPDIGMFIASLTIWLLCRNIVQKPVTDAAQSNPEFENEELAEGEKIDSEEAL IYEE  
DFNGGDGVEGELEESTKLKMFRLASVASKLKEFIGNMITTAGKVVTILLGSSGMM LPS  
LTSSVYFFVFLGLCTWWSWCRTFDPLLFSCLCVLLAIFTAGHLIGLYLYQFQFFQEAVPP  
NDYYARLFGIKSVIQTDCSSTWKIIVNPDLSWYHHANPILLVMYYTLATLIRIWLQEPL  
VQDEGTKEEDKALACSPIQITAGRRRSLWYATHYPTDERKLLSMTQDDYKPSDGLLVTVN  
GNPVDYHTIHPSLPMENGP GKADLYSTPQYRWEPSDESSEKREEEEEKEEFEEERSREE  
KRSIKVHAMVSVFQFIMKQSYICALIAMMAWSITYHSWLT FVLLIWSCTLWMIRNRKYA  
MISSPFMVVYGNLLLILQYIWSFELPEIKKVPGFLEKKEPGELASKILFTITFWLLLRQH  
LTEQKALQEKEALLSEVKIGSQENEEKDEELQDIQVEGEPKEEEEEAKEEKQERKKVEQ  
EEAEEEEDEQDIMKVLGNLVVAMFIKYWIYVCGGMFFVVSFEGKIVMYKIIYMVLF LFCVA

LYQVHYEWWRKILKYFWMSVVIYTMVLIFIYTYQFENFPGLWQNMGLKKEKLEDLGLK  
QFTVAELFTRIFIPTSFLLVCILHLHYFHDRFLELTDLKSIPSKEDNTIYRLAHPEGSLP  
DLTMMHLTASLEKPEVRKLAEPGEEKLEGYSEKAQKGDGKDEESEEDGEEEESEEEE  
ETSDLRKNWHLVIDRLTVLFLKFLEYFHLQVFMWWILELHIKIVSSYIIVWSVKEVSL  
FNYVFLISWAFALPYAKLRRASSVCTVWTCVIVCKMLYQLQTIKPFNSVNCSLPNEN  
QTNIPFNELNKSLLYSAPIDPTEWVGLRKSSPLLVLRRNNLLMLAILAFEVTIYRHQEYY  
RGRNNLTAPVSRTIFHDITRLHLDGLINCAKYFINYFFYKFLETCLMSVNVIGQRMD  
FYAMIHACWLI AVL YRRRRKAI AEIWPKYCCFLACIITFQYFICIGIPPAPCRDYPWRFK  
GASFNDNIKWL YFPDFIVRPNPVFLVYDFMLLLCASLQRQIFEDENKAAVRIMAGDNVE  
ICMNLDAASFSQHNPVPDFIHCRSYLDMSKVIIFS YLFWFVLTIIFITGTTRISIFCMGY  
LVACFYFLLFGGDL LKPIKSILRYWDWLIAYNVFVITMKNILSIGACGYIGTLVHNSCW  
LIQAFSLACTVKGYQMPAANSPTLP SGEAGI IWD SICFAFLLLRRVFMSYYFLHVAD  
IKASQILASRGAE LFQATIVKAVKARIEEEKKSMDQLKRQMDRIKARQQKYKKGKERMLS  
LTQEPGEGQDMQK LSEEDDEREADKQKAKGKKKQWWRPVDHASMVRSGDYLFETDSEE  
EEEEELKKEDEEPPRRSAFQFVYQAWITDPKTALRQRHKEKKRSAREERKRRRKGSKGEP  
VEWEDREDEPIKKKSDGPDNIKIRIFNILKFTWVFLATVDSFTTWLNSISREHIDISTV  
LRIERCMLTREIKKGNVPTRESIHMYQNHIMNLSRESGLDTIDEHPGAASGAQTAHRMD  
SLDSHDSISSEPTQCTMLYSRQGTETIEEVEAEQEEEAGSTAPEPREAKEYEATGYDVG  
AMGAEASLTPEEELTQFSTLDGDVEAPPSYSKAVSFEHLSFGSQDDSAGKNRMVSPDD  
SRTDKLGSSILPPLTHELTASELLKKMFHDDELEESEKFYVGQPRFLLLFYAMYNTLVA  
RSEMVCYFVII LNHMVSASMITLLLPILIFLWAMLSVPRPSRRFWMMAIVYTEVAIVVKY  
FFQFGFFPWKNVEVNKDKPYHPPNIIGVEKKEGYVLYDLIQLLALFFHRSILKCHGLWD  
EDDMTESGMAREESDDEL SLGHGRRDSSDSLKSINLAASVESVHVTFPEQQTAVRRKRSG  
SSSEPSQRSSFSSNRSQRGSTSTRNSSQKGSSVLSIKQKGKRELYMEKLQEHLIKAKAFT  
IKKTLEIYVPIKQFFYNLIHPEYSAVTDVYVLMFLADTVDFIIIVFGFWAFGKHSAAADI  
TSSLEDQVPGPFLVMVLIQFGTMVVDRALYLRKTVLGKVIQVILVFGIHFWMFFILPG  
VTERKFSQNLVAQLWYFVKCVYFGLSAYQIRCGYPTRVLGNFLT KSYNYVNLFLFQGFRL  
VPFTELRAVMDVWVTDTTLSLSSWICVEDIYAHIFILKCWRESEKRYPPRGQKKKKV  
KYGMGMIIVLLICIVWFP LLFMSLIKSVAGVINQPLDVSVTITLGGYQPIFTMSAQQSQ  
LKVMDQQSFNKFIAF SRDTGAMQFLENYEKEDITVAELEGNSNSLWTISPPSKQKMIHE  
LLDPNSSFSVFSWSIQRNLSLGAKSEIATDKLSFPLKNITRKNIAKMIAGNSTESSKTP  
VTIEKIYPYVVKAPSDSNSKPIKQLSEN NFMDITIIILSRDNTTKYNSEWWVLNLTGNRI  
YNPNSQALELVFN DKVSPPSLGFLAGYIMGLYASVVLVIGKFVREFFSGISHSIMFEE  
LPNVDRILKLCTDIFLVRETGELELEEDLYAKLIFLYRSPETMIKW TREKTN

>sp|Q8TCI5|PIFO\_HUMAN Protein pitchfork OS=Homo sapiens GN=PIFO PE=1 SV=2

MCFSRADAADNYPFGTCQQRKLFPHFHPNLI GNKFVPLRGSPHRGPGCYFSDGYGLAYD  
LSKIPTSIGYTLGARTAVRFKPIQKEMTPHAGRYQKVSPQQEKHKQNFAPFNLVPRFK  
NYPKDTYYPSPGAYNPEKKPPP KIAWPMKFGSPDWAQVPCLQKRTLKAELSTDKDFRKHR  
NRVAYLSLYN

>sp|Q86VD9|PIGZ\_HUMAN GPI mannosyltransferase 4 OS=Homo sapiens GN=PIGZ PE=2 SV=4

MQICGSSVASVAAGTSFQVLGPVCWQQLDLKMAVRVLWGGLSLLRVLWCLLPQTGYVHPD  
EFFQSPEVMAEDILGVQAARPWEFYPSSSCRSVLFPLLISGSTFWLLRLWEELGPWPGLV  
SGYALLVGPRLLLTALSFALDGAVYHLAPPMGADRWNALALLSGSYVTLVFYTRTFSNTI  
EGLLFTWLLVLVSSHVTWGPTRKEPAPGPRWRSWLLGGIVAAGFFNRPTFLAFVVPYLYL

WGTRGATNPGLKSLTREALVLLPGAALTAAVFVATDSWYFSSPATSRNLVLTVPVNLHYN  
LNPQNLARHGTHARLTHLAVNGFLLFGVLHAQALQAAWQRLQVGLQASQMGLLRALGAR  
SLLSSPRSYLLLLYFMPALLSAFSSHQEARFLIPLLPLVLLCSPQTQVPVWKGTVVLFN  
ALGALLFGCLHQGGLVPGLEYLEQVVHAPVLPSTPTHYTLTFTHTYMPRHLHLPLGLGA  
PVEVDMGGTEDWALCQTLKSFTRQPACQVAGGPWLCRLFVVTPTGTTTTRAVEKCSFPFKN  
ETLLFPHLTLEDPPALSSLLSGAWRDHLSLHIVELGEET

>sp|P11309|PIM1\_HUMAN Serine/threonine-protein kinase pim-1 OS=Homo sapiens GN=PIM1 PE=1  
SV=3

MPHEPHEPLTPPFSALPDPAGAPSRQRQRPQLSSDPSAFRASRSHSRNATRSHSHSH  
SPRHSRLRHSPGSGSCGSSSGHRPCADILEVGMLLSKINSLAHLRAAPCNDLHATKLAPGK  
EKEPLESQYQVGPLLGSGGFGSVYSGIRVSDNLPVAIKHVEKDRIISDWGELPNGTRVPME  
VVLLKKVSSGFGSVIRLLDWFERPDSFVLIERPEPVQDLDFITERGALQEELARSFFW  
QVLEAVRHCHNCGVLHRDIKDENILIDLNRGELKLIDFGSGALLKDTVYTFDGTGVYSP  
PEWIRYHRYHGRSAAVWSLGILLYDMVCGDIPFEHDEEIRGQVFRQVRSSECQHILRW  
CLALRPSDRPTFEEIQNHPWMQDVLLPQETAEIHLHSLSPGPSK

>sp|Q86V86|PIM3\_HUMAN Serine/threonine-protein kinase pim-3 OS=Homo sapiens GN=PIM3 PE=1  
SV=3

MLLSKFGSLAHLCPGGVDHLPVKILQPAKADKESFEKAYQVGAVLGSGGFGTVYAGSRI  
ADGLPVAVKHVVERVTEWGS LGGATVPLEVLLRKVGAAGGARGVIRLLDWFERPDGFL  
LVLERPEPAQDLDFITERGALDEPLARRFFAQVLAAVRHCHSCGVVHRDIKDENLLVDL  
RSGELKLIDFGSGALLKDTVYTFDGTGVYSPPEWIRYHRYHGRSATVWSLGVLLYDMVC  
GDIPFEQDEEILRGRLLFRRRVSPQCQLIRWCLSLRPSEPSLDQIAAHPWMLGADGGV  
PESCDLRLCTLDPDDVASTTSSESL

>sp|Q96BK5|PINX1\_HUMAN PIN2/TERF1-interacting telomerase inhibitor 1 OS=Homo sapiens  
GN=PINX1 PE=1 SV=2

MSMLAERRRKQKQWAVDPQNTAWSNDDSKFGQRMLEKMGWSKGKGLGAQEQGATDHIKVVQV  
KNNHLGLGATINNEDNWIAHQDDFNQLLAELNTCHGQETDSSDKKEKKSFSLEEKSKIS  
KNRVHYMKFTKGDLSSRSKTDLCIFGKRQSKKTPEGDASPSTPEENETTTTSAFTIQE  
YFAKRMAALKNKPVVPGSDISETQVERKRGKKRNKEATGKDVESYLQPKAKRHTEGKP  
ERAEAQERVAKKSAPAEELRGPCWDQSSKASADAGDHVQPPEGRDFTLKPKKRRGKK  
KLQKPVEIAEDATLEETLVKKKKKKDSK

>sp|P48739|PIPNB\_HUMAN Phosphatidylinositol transfer protein beta isoform OS=Homo sapiens  
GN=PIPNB PE=1 SV=2

MVLIKEFRVVLPCSVQEYQVGQLYSVAEASKNETGGGEGIEVLKNEPYEKDGEKGQYTHK  
IYHLKSKVPAFVRMIAPEGSLVFHEKAWNAYPYCRTIVTNEYMKDDFFIKIETWHKPDLG  
TLENVHGLDPNTWKTVEIVHIDIADRSQVEPADYKADEDPALFQSVKTKRGPLGPNWKKE  
LANSPDCPQMAYKLVTIKFVWGLQSKVENFIQKQEKRIFTNFHRQLFCWIDKWIDLTM  
EDIRMEDETQKELETMRKGSVRGTSADV

>sp|Q96J94|PIWL1\_HUMAN Piwi-like protein 1 OS=Homo sapiens GN=PIWL1 PE=1 SV=1

MTGRARARARGRARGQETAQLVGSTASQQPGYIQPRPQPPPAEGELFGRGRQRGTAGGTA  
KSQGLQISAGFQELSLAERGRRRDFHDLGVNTRQNLDHVKESKTGSSGIIVRLSTNHFR  
LTSRPQWALYQYHIDYNPLMEARRLSALLFQHEDLIGKCHAFDGTILFLPKRLQQKVTE  
VFSKTRNGEDVRITITLTNELPPTSPTCLQFYNIIFRRLKIMNLQQIGRNYNPNNDPID  
IPSHRLVIWPGFTTSLQYENSIMLCTDVSHKVLRSSETVLDVDFMFNFYHQTEEHKFQEQVS

KELIGLVVLTkYNNkTYRVDDIDWDQNPkSTFKKADGSEVSfLEYyRKQYNQEITDLKQP  
VLVSQPKRRRGPGGTLPGPAMLIPELCYLTGLTDKMRNDFNMKDLAVHTRLTPEQRQRE  
VGRLIDYIHkNDNVQRELrdWGLSFDSNLLSfSGRILQTEkIHqGGKTFDYNPQFADWSK  
ETRGAPlISVkpLDNWLLIYTRRNYEAANSLIQNLfkVTPAMGMqMRKAImIEVDDRTEA  
YLRVLQqKVtADtQIVVCLSSNRKDKYDAIKKYLCTDCPTPSQCvVARTLGKqQTVMAI  
ATKIALQMnCKMGgELWRVDIPLKLVMIVGIDCYHDMTAGRRSIAGFVASINEGMTRWFS  
RCIFQDRGqELVDGLKVCLQAALRAWNSCNEYMPsRIIVYRDGVGDGQLKTLVNYEVPQF  
LDCLKSIGRGYNPRLTVIVVKKRvNTRFFAQSGGRLQNPLPGTVIDVEVTRPEWYDFFIV  
SQAVRSGSVSPThYnVIYDnSGLKPDHIQRLTYKLCHIYyNWPgVIRVPAPCQYAHKLAF  
LVGQSIHREPNLSLSNRLYYL

>sp|Q9NZM6|PK2L2\_HUMAN Polycystic kidney disease 2-like 2 protein OS=Homo sapiens  
GN=PKD2L2 PE=2 SV=2

MAEASRWHRGgASKHKLHYRKEVEITTTLQELLYfIFLINLCILTFGMVNPHMYyLNKV  
MSSLFLDTSVPGEERTNFkSIRSITDFWkFMEGPLLEGLYWDsWYNNQQLYNLKNSSRIY  
YENILLGVPRVRQLKVRNNTCKVYSSfQSLMSECYGKYTSANEDLSNfGLQINTEWRYST  
SNTNSPWHWGfLGVYRNGGYIFTLSKSKSETKNKFIDRLNSWITRGTRVIFIDfSLYNA  
NVNLFciIRLVAEFpATGGILTSWQfYSVKLLRYVSyYDYfIASCEITfCiFLfVfTTQe  
VKKIKEFKSAYfKSIWNWLELLLLLcfVAVSFNTYyNVQIFLLLGQLLKSTEKYSDFYf  
LACWHIYyNNIIAITIFFAWIKfKfISFNkTMSQLSSTLSRCVKDIVGfAIMFFIIFFA  
YAQLGfLVfGSQVDDfSTfQNSIFAQfRIVLGDFNFAGIQqANPILGPiYfITfIFFVfF  
VLLNMFLAIINDTYSEVKADYSIGRRLDFELGKMIKqSYKNVLEKfRLKKAQKDEDKkTK  
GSGDLAEQARREGFDENEIQNAEQMKkWKERLEKKYYSMEIQDDYQpVTQEEfRELfLYA  
VELEKELHYINLKLnQVVRKVSAL

>sp|P42336|PK3CA\_HUMAN Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit  
alpha isoform OS=Homo sapiens GN=PIK3CA PE=1 SV=2

MPPrPSSGELWGIHLMPPrILVECLLPNGMIVTLECLREATLITIKHELFKEARKYPLHQ  
LLQDESSyIFVSVTQEAEREeFFDETRRLCDLRLfQPFLKViEPVGNREEKILNREIGFA  
IGMPVCEfDMVKDPEVQDFRRNILNVCKEAVDLRDLNSPHSRAMYVYPpNVESsPELPKH  
IYNKLDKGQIIIVVIWVIVSPNNDKQKYTLKINHDCVPEQVIAEAIRKKTRSMLLSSEQLK  
LCVLEYqGKYILKVCgCDEYfLEKYPLSQYKYIRSCIMLGRMPNLMLMAKESLYSQLPMD  
CFTMPsYSRRISTATPyMGETSTKSLWVINSALRIKILCATYyVNVNIRDIDKIYVRTGI  
YHGGEPLCDNVNTQRVPCSNPRWNEWLNyDIYIPDLPRAArLCLsICSVKGRKGAKEEHc  
PLAWGNINLfDYTDTLVSGKMALNLWPVPHGLEDLLNPiGVTGSNPnKETPCLELEFDWF  
SSVVKFPDMsVIEEHANWSVSREAGfSYSHAGLSNRLARDNELRENDKEQLKAISTRDPL  
SEITEQEKDFLWSHRHYCVTIPEILPKLLSVKwNSRDEVAQMYCLVKDWPPiKPEQAME  
LLDCNYPDPMVRGFAVRCLEKYLTDDKLSQYLlQLVQVLKYEQYLDNLLVRfLLKKALTN  
QRIGHfFFFWHLKSEMHNkTVSQRfGLLESYCRACGMYLKHLNRQVEAMEKLINLTDLK  
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GFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQEGGWWRGDYGGKKQLW

FPSNYVEEMVNPVALEPEREHLDENSPLGDLRLGVLDVPACQIAIRPEGKNNRLFVFSIS  
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVC  
RPVPFDEEKIGTERACYRDMSSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKGQRLDS  
SNYDPLPMWICGSQVLALNFQTPDKPMQMNQALFMTGRHCGYVLQPSTMRDEAFDPFDS  
SLRGLEPCAISIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTKQKTEFVVDNGLNPVW  
PAKPFHFQISNPEFAFLRFVVEEDMFSQNFQAATFPVKGLKTGYRAVPLKNNYSED  
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGSASGQLFHGRAREGSFESRYQQPFEDF  
RISQEHLDHFDSEERRAPRRTRVNGDNRL

>sp|Q15111|PLCL1\_HUMAN Inactive phospholipase C-like protein 1 OS=Homo sapiens GN=PLCL1  
PE=1 SV=3

MAEGAAGREDPAPPDAAGGEDDPRVGPDAAGDCVTAASGGMRDRRSGVALPGAAGTPAD  
SEAGLLEAARATPRRSSIIKDPNSQKCGGRKKTVSFSSMPSEKKISSANDCISFMQAGCE  
LKKVRPNSRIYNRFFTLDTLQALRWEPSKKDLEKAKLDISAIKEIRLGKNTETFRNGL  
ADQICEDCAFSILHGENYESLDLVANSADVANIWVSGRLVLSRSKQPLDFMEGNQNTPR  
FMWLKTVFEAADVDGNGIMLEDTVELIKQLNPTLKEAKIRLKFKEIQKSKEKLTTTRVTE  
EEFCEAFCELCTRPEVYFLLVQISKNKEYLDANDLMLFLEAEQGVTHITEDIICLDIIRRY  
ELSEEGRQKGFALIDGFTQYLLSSECDFDPEQKKVAQDMTQPLSHYYINASHNTYLIED  
QFRGPADINGYIRALKMGCRSVELDVSDGSDNEPILCNRRNMTHVSFRSVIEVINKFAF  
VASEYPLILCLGNHCSLPQQKVMAQQMKKVFGNKLYTEAPLPSESYLPSPEKLKRMIIVK  
GKKLPSPDPVLEGEVTEDEEEAEMSRRMSVDYNGEQKQIRLCRELSDLVSICKSVQYRDF  
ELSMKSQNYWEMCSFSETEASRIANEYPEDFVNYNKKFLSRIYPSAMRIDSSNLNPQDFW  
NCGCQIVAMNFQTPGPMMDLHTGWFLQNGGCGYVLRPSIMRDEVSYFSANTKGILPGVSP  
LALHIKIIISGQNFPPKPKGACAKGDVIDPYVCIEIHGIPADCSEQRKTQVQQNSDNPIDFDE  
TFEFQVNLPELAMIRFVVLDDDYIGDEFIQYTIQFECLQPGYRHHVPLRSFVGDIMEHVT  
LFVHIAITNRSGGKAQKRSLSVRMGKKVREYTMRLNIGLKTIDDIKIAVHPLREAIM  
RENMQNAIVSIKELCGLPPIASLKQCLLTLSSRLITSNTPSVSLVMKDSFPYLEPLGAI  
PDVQKKMLTAYDLMIQESRFLIEMADTVQEKIVQCQKAGMEFHLEHNLGAKEGLKGRKL  
NKATESFAWNITVLKGQGDLLKNAKNEAIENMKQIQACLSCGLSKAPSSSAEAKSKRSL  
EAIEEKESSEENGKL

>sp|Q02325|PLGB\_HUMAN Plasminogen-like protein B OS=Homo sapiens GN=PLGLB1 PE=3 SV=1  
MEHKEVLLLLLLFLKSGQGEPLDDYVNTQGPSLFSVTKKQLGAGSREECAAKCEEDKEFT  
CRAFQYHSKEQQCVIMAENRKSSIIIRMRDAVLFEK

>sp|O15031|PLXB2\_HUMAN Plexin-B2 OS=Homo sapiens GN=PLXNB2 PE=1 SV=3

MALQLWALTLLGLLGAGASLRPRKLDFFRSEKELNHLAVDEASGVVYLGAVALYQLDAK  
LQLEQQVATGPALDNKCTPPIEASQCHEAEMTDNVNQLLLLDPPRKRLVECGSLFKGIC  
ALRALSNISLRLFYEDGSGEKSFVASNDEGVATVGLVSSTGPGGDRVLFVGKGNPHDNG  
IIVSTRLLDRTDSREAFEAYTDHATYKAGYLSTNTQQFVAAFEDGPYVFFVFNQDKHPA  
RNRTLLARMCREDPNYYSYLEMDLQCRDPDIHAAAFGTCLAASVAAPGSGRVLYAVFSRD  
SRSSGGPGAGLCLFPLDKVHAKMEANRNACYGTREARDIFYKPFHGDICCGGHAPGSSK  
SFPCGSEHLPPYLGSRDGLRGTAVLQRGGLNLTAVTVAENNHTVAFLGTSDDRILKVYL  
TPDGTSSSEYDSILVEINKRVKRDVLSGDLGSLYAMTQDKVFRLPVQECLSYPTCTQCRD  
SQDPYCGWCVVEGRCTRKAECPRAEAEASHWLWSRSKSCVAVTSAPQPNMSRRAQGEVQLT  
VSPLPALSEDELLCLFGESPHPARVEGEAVICNSPSSIPVTPPGQDHVAVTIQLLLR  
GNIFLTSYQYPFYDCRQAMSLEENLPCISCVSNRWTCQWDLRYHECREASPNPEDGIVRA

HMEDSCPQLGPSPLVIPMNHETDVNFQGNLDTVKGSSLHVGSDDLKFMEPVTMQESGT  
FAFRTPKLSHDANETLPLHLVYKSYGKNIDSKLHVTLYNCSFGRSDCSLCRAANPDYRCA  
WCGGQSRCVYEALCNTTSECPPPVITRIQPETGPLGGGIRITILGSNLGVQAGDIQRISV  
AGRNCFSQPERYSVSTRIVCVIEAAETPFTGGVEVDVFGKLGRSPPNVQFTFQQPKPLSV  
EPQQGPQAGGTTLTIHGTHLDTGSQEDVRVTLNGVPCKVTKFGAQLQCVTGPQATRGQML  
LEVSYGGSPVPNPGIFFTYRENPVLRAFEPLRSFASGGRSINVTGQGFSLIQRFAMVVIA  
EPLQSWQPPREAESLQPMTVVGTDYVFHNDTKVVFLSPAVPEEPEAYNLTVLIEMDGHRA  
LLRTEAGAFEYVPDPTFENFTGGVKKQVNKL IHARGTNLNKAMTLQEAEAFVGAERCTMK  
TLTETDLYCEPPEVQPPPKRRQKRDTHNLPEFIVKFGSREWVLGRVEYDTRVSDVPLSL  
ILPLVIVPMVVIVAVSVYCYWRKSQAEREYEKIKSQLEGLEESVRDRCKKEFTDLMIE  
EDQTNDVHEAGIPVLDYKTYTDRVFFLPSKDGDKDVMITGKLDIPEPRRPVVEQALYQFS  
NLLNSKSFLINFHTLENQREFSARAKVYFASLLTVALHGKLEYTDMHTLFLELLEQY  
VVAKNPKLMLRRSETVVERMLSNNWMSICLYQYLKDSAGEPLYKLFKAIKHQVEKGPVDAV  
QKKAKYTLNDTGLLGDDEYAPLTVSVIVQDEGVDAIPVKVLNCDTISQVKEKIIDQVYR  
GQPCSCWPRPDSVLEWRPGSTAQILSDLDLTSQREGRWKRVNTLMHYNVRDGTLLSK  
VGVSQQPEDSQDLPGERHALLLEENRVWHLVRPTDEVDEGKSKRGSVKEKERTKAITEI  
YLTRLSSVKGTLLQFVDNFFQSVLAPGHAVPPAVKYFFDFLDEQAETHNIQDEDTIHIWK  
TNSLPLRFVWNILKNPHFIFDVHVHEVVDASLSVIAQTFMDACTRTEHKLSRSPSNKLL  
YAKEISTYKKMVEDYKGIQRMVQVSDQDMNTHLAEISRAHTDSLNTLVALHQLYQYTQK  
YYDEIINAL EEDPAAQKMLAFRLQQIAAALENKVTDL

>sp|Q13670|PM2PB\_HUMAN Putative postmeiotic segregation increased 2-like protein 11  
OS=Homo sapiens GN=PMS2P11 PE=5 SV=1

MEKLSAASGYSDVTSKAMGPLAVGCLTKCSHAFHLLCLLAMYCNGNKGP EHPNPGKPFT  
ARGFPASATFQTTPGPQASRGFQNPETLADIPASPQLLTDGHYMTLPVSPDQLPCDDPMA  
GSGGAPVLRVGHHDGCHQQPRICNAPLPGPGPYRTEPAKAIKPIDRKSVMHICSGPVVLS  
LSTAVKELVENS LDAGATNIDLKLDYGM DLIEVSGNGCGVEEENFEGLMMSFPLPATSR  
RRLGLDWCLITMGKSSRRPPTPTPEGPQSA

>sp|Q8WZA1|PMGT1\_HUMAN Protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase  
1 OS=Homo sapiens GN=POMGNT1 PE=1 SV=2

MDDWKPSPLIKPFGARKKRSWYLTWKYKL TNQRALRRFCQTGAVLFLLVTIVNIKLILD  
TRRAISEANEDPEPEQDYDEALGRLEPPRRRGSGPRRVLDVEVYSSRSKVYVAVDGTTVL  
EDEAREQGRGIHVIVLNQATGHVMAKRVFD TYSPHEDEAMVFLNMVAPGRVLICTVKDE  
GSFHLKDTAKALLRSLGSQAGPALGWRDTWAFVGRKGGPVFGEKHSKSPALSSWGD PVLL  
KTDVPLSSAEAECHWADTELNRRRRRFCSKVEGYGSVCCKDPTPIEFSPDPLPDNKVL  
NVPVAVIAGNRPNYLRLRSLLSAQGVSPQMITV FIDGYEPM DVVALFGLRGIQHTP  
ISIKNARVSQHYKASLTATFNLFP EAKFAVVLEEDLDIAVDFFSFLSQSIHLLEEDDSLY  
CISAWN DQGYEHTAEDPALLYRVETMPGLGWVLRRLSYKEELEPKWPTPEKLWDWDMWMR  
MPEQRRGRECIIPDVSRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVD SLKKEA  
YEVEVHRLLEAEVLDHSKNPCEDSFLPDTEGHTYVAFIRMEKDDDFTTWTQLAKCLHIW  
DLDRVGNHRGLWRLFRKKNHFLMVGPASPVSVKKPPSVTPIFLEPPPKEEGAPGAPEQT

>sp|Q99640|PMYT1\_HUMAN Membrane-associated tyrosine- and threonine-specific cdc2-  
inhibitory kinase OS=Homo sapiens GN=PKMYT1 PE=1 SV=1

MLERPPALAMPMPTEGTPPPLSGTPIPV PAYFRHAEPGFS LKRPRGLSRSLPPPPAKGS  
IPISRLFPPTPGWHQLQPRRV SFRGEASETLQSPGYDPSRPESFFQQSFQRLSRLGHGS

YGEVFKVRSKEDGRLYAVKRSMSPFRGPKDRARKLAEVGSHEKVGQHPCCVRLEQAWEEG  
GILYLQTELCGPSLQQHCEAWGASLPEAQVWGYLRDTLLALAHLSQGLVHLDVKPANIF  
LGPRGRCKLGDFGLLVELGTAGAGEVQEGDPYMAPELLQGSYGTAADVFSGLTILEVA  
CNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLVMMLEPDPKLRATAEALLALPVL  
QPRAWGLWCMAAEALSRGWALWQALLALLCWLWHGLAHPASWLQPLGPPATPPGSPPCS  
LLDSSLSSNWDDSLGPSLSPEAVLARTVGSTSTPRSRCTPRDALDLSINSEPPRGSF  
PSFEPRNLLSLFEDTLDPT

>sp|Q03052|PO3F1\_HUMAN POU domain, class 3, transcription factor 1 OS=Homo sapiens  
GN=POU3F1 PE=2 SV=3

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GAGHPVGLAHPQWLPTGGGGGGDWAGGPHLEHGKAGGGGTGRADDGGGGGGFHARLVHQG  
AAHAGAAWAQGSTAHLGPA MSPSPGASGGHQPPQLGLYAQAAYPGGGGGLAGMLAAGG  
GGAGPGLHHALHEDGHEAQLESPPPHLAGHGAHGAHAGGLHAAAHLHPGAGGGGSS  
VGEHSDAPSSDDLEQFAKQFKQRRIKLGFTQADVGLALGTLYGNVFSQTTICRFEALQ  
LSFKNMCKLKPLLNKWLEETDSSGSPTNLDKIAAQGRKKRRTSIEVGKGALESHFLK  
CPKPSAHEITGLADSLQLEKEVVRVWFCNRRQKEKRMTAAAGAGHPPMDDVYAPGELGPG  
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>sp|P49335|PO3F4\_HUMAN POU domain, class 3, transcription factor 4 OS=Homo sapiens  
GN=POU3F4 PE=1 SV=2

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LSDGGPWSSTLATSPLDQDQDVKPGREDLQLGAI IHHRSPVHAHSPHTNHPNAGWASPAP  
NPSITSSGQPLNVYSQPGFTVSGMLEHGGLTPPPAAASAQSLHPVLREPPDHGELGSHHC  
QDHSDEETPTSDELEQFAKQFKQRRIKLGFTQADVGLALGTLYGNVFSQTTICRFEGLQL  
SFKNMCKLKPLLNKWLEADSSGSPSTIDKIAAQGRKKRRTSIEVSVKGVLETHFLKC  
PKPAAQEISSLADSLQLEKEVVRVWFCNRRQKEKRMTPPGDQQPHEVYSHTVKTDTSCHD  
L

>sp|Q8TC44|POC1B\_HUMAN POC1 centriolar protein homolog B OS=Homo sapiens GN=POC1B PE=1  
SV=1

MASATEDPVLERYFKGHKAAITSLDLSPNGKQLATASWDTFLMLWNFKPHARAYRYVGHK  
DVVTSVQFSPHGNLLASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDFSADGGFLATA  
SEDKSIKVWSMYRQRFLYSLYRHTHWVRCAKFSPDGRLIVSCSEDKTIKIWDTTNKQCVN  
NFSDSVGFANFVDFNPSGTCIASAGSDQTVKVDVRVNKLLQHYQVHSGGVNCISFHPSG  
NYLITASSDGTKILDLEGLIYTLQHTGPVFTVSFSKGGELFASGGADTQVLLWRTN  
FDELHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEINPKLEVIDLQISTPP  
VMDILSFDSTTTTETSGRTLDPKGEEACGYFLNPSLSMPECLPTTTKKKTEDMSDLPCE  
QRSIPLAVTDALEHIMEQLNVLQTQVSILEQRLTLTEDKLDCLNQKLFSAVQQKS

>sp|O00592|PODXL\_HUMAN Podocalyxin OS=Homo sapiens GN=PODXL PE=1 SV=2

MRCALALSALLLLSTPPLLSPSPSPSPSQNATQTTTSSNKTAPTASSVTIMATDT  
AQQSTVPTSKANEILASVKATTLGVSSDSPGTTTAAQQVSGPVNTTVARGGGSGNPTTTI  
ESPKSTKSADTTTATSTATAKPNTTSSQNGAEDTTNSGGKSSHSVTDLTSTKAEHLTT  
PHPTSPLSPRQPTSTHPVATPTSSGHDHMKISSSSSTVAIPGYTFTSPGMTTTLLETVF  
HHVSQAGLELLTSGDLPTLASQASGITASSVISQRTQQTSSQMPASSTAPSSQETVQPTS  
PATALRPTPLPETMSSSPTAASTHRYPKTPSPTVAHESNWKACEDLETQTQSEKQLVLN  
LTGNTLCAGGASDEKLISLICRAVKATFNPAQDKCGIRLASVPGSQTVVVKEITIHTKLP

AKDVYERLKDKWDELKEAGVSDMKLGDQGPPEEAEDRFSMPLIITIVCMASFLLLVAALY  
GCCHQRLSQRKDQQRLETELQTVENGHYHDNPTLEVMTSSEMQEKKVVS LNGLGDSWIV  
PLDNLTKDDLDEEEDTHL

>sp|Q9QC07|POK18\_HUMAN Endogenous retrovirus group K member 18 Pol protein OS=Homo sapiens  
GN=ERVK-18 PE=3 SV=2

NKSRKRRNRVSFLGVTTVEPPKPIPLTWKTEKLVVWNQWPLPKQKLEALHLLANEQLEKG  
HIEPSFSPWNSPVFVIQKKSQWRMLTDLRAVNAVIQPMGPLQGPLSPAMIPKDWPLII  
IDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRAL  
QPVRDKFSDCYIIHYFDDILCAAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHY  
LGMQIENRKIKPKQIEIRKDTLKTLDNFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDS  
DLNSKRMLTPEATKEIKLVEEKIQSAQINRIDPLAPLQLLIFATAHSPTGII IQNTDLVE  
WSFLPHSTVKTFTLYLDQIATLIGPTLRRI IKLCGNDPDKIVVPLTKEQVRQAF INSGAW  
QIGLANFVGIIDNHYPKTKIFQFLKLTWILPKITRREPLENALTVFTDGSSNGKVAYTG  
PKERVIKTPYQSAQRAELVAVITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQ  
LNQLFNLLQQTVRKRNFPHYITHIRAHTNLPGLTKANEQADLLVSSAFIKAQELHALTH  
VNAAGLKNKFDVTWKQAKDIVQHCTQCQVLDLPTQEAGVNPEVCVLMHYGKWM SHMYLHL  
GRLSYVHVTVDYSHFMCATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAF  
QKFLSQWKISHTTGIPYNSQGQAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALY  
TLNFLNIYRNQTTTSAEHLTGKKNPHEGKLI

>sp|Q9HBU9|POPD2\_HUMAN Popeye domain-containing protein 2 OS=Homo sapiens GN=POPDC2 PE=2  
SV=2

MSANSSRVGQLLLQGSACIRWKQDVEGAVYHLANCLLLLGMGGSGVYGC FYLFGFLSAG  
YLCCVLWGWSACGLDIVLWSFLLAVVCLLQLAHLVYRLREDTLPEEFDLLYKTLCLPLQ  
VPLQTYKEIVHCCEEQVLTATEQTYAVEGETPINRLSLLSGRVRVSQDGQFLHYIFPY  
QFMDSPEWESLQPSSEGVFQVTLTAETSCSYISWPRKSLHLLTKERYISCLFSALLGYD  
ISEKLYTLNDKFLAKFGLRFDIRLPSLYHVLGPTAADAGPESEKGDEEVCEPAVSPQAT  
PTSLQQTPPCSTPPATTNFPAPPTRARLSRPDSGILASRIPLQSYSQVISRGQAPLAPTH  
TPEL

>sp|Q6S8J7|POTEA\_HUMAN POTE ankyrin domain family member A OS=Homo sapiens GN=POTEA PE=2  
SV=1

MVAEVS PKLAASPMKKPFGFRGKMGKWCCECFPCRGSGKNNMGAWRDHDDSAFTEPRYH  
VRREDLGKLRHRAAWGEVPRADLIVMLRGPGINKRDKKKRTALHLACANGNSEVVSLLLD  
RQCQLHVFDSKKRTALIKAVQCQEDECALMLLQHGTDPNLPDMYGNTALHYAVYNEDKLM  
AKTLLLYGADIESKNKGGTPLLAVHGQKQRMVKFLIKKANLNALDRFGRTALILAVR  
CGSASIVSLLLQQNIDVFSQDVFGQTAEDYAVSSHHSIICQLLSDYKENQMPNNSGNSN  
PEQDLKLTSEEPQRLKGSSENSQHEKVTQEPDINKDCDREVEEEMQKHGSNNVGLSENLT  
DGAAAGNGDGLVPQRKSRKHENQQFPNTEIEEYHRPEKKSNEKNKVKSQIHSVDNLDDI  
TWPSEIASSEDYDLLFSNYETFTLLIEQLKMDFNDSASLSKIQDAVISEEHLELKN SHYE  
QLTVEVEQMENMVHVLQK

>sp|B2RU33|POTEC\_HUMAN POTE ankyrin domain family member C OS=Homo sapiens GN=POTEC PE=2  
SV=2

MVTEVCSMPAASAVKKPFDLRSKMGKWFHHRFPCKGSGKSNMGTS GDHDDSFMKMLRSK  
MGKCCHHCFPCRGSGTSGVGTSGDHNSFMKTLRSKMGKWCCHCFPCRGSGKSNVGAW  
GDYDDSAFMEPRYHVRREDLDKLHRAAWGKVPKDLIVMLRDTDMNKRDKQKRTALHLA

SANGNSEVVQLLLDRRCQLNVLDNKKRTALIKAVQCQEDECVLMLLEHGADQNIPDEYGN  
TTLHYAVHNEDKLMAKALLYGADIESKNKCGLTPLLLGVHEKQKQVVKFLIKKANLNA  
LDRYGRTALILAVCCGSASIVNLLLEQNVDVSSQDLSGQTAREYAVSSHHHVICELLSDY  
KEKQMLKISSSENSPEQDLKLTSEESQRLKVSSENSQPEKMSQEPEINKDCDREVEEEEIK  
KHGSPVGLPENLTNGASAGNGDDGLIPQRRSRKPENQQFPDTENEEYHSDEQNDTRKQL  
SEEQNTGISQDEILTNNKQKQIEVAEKKMNSELSLSHKKEEDLLRENSMLQEEIAMLISGD  
WN

>sp|B7ZBB8|PP13G\_HUMAN Protein phosphatase 1 regulatory subunit 3G OS=Homo sapiens  
GN=PPP1R3G PE=1 SV=1

MEPIGARLSLEAPGPAPFREAPPAEELPAPVPCVQGGGDGGGASETPSPDAQLGDRPLS  
PKEEAAPQEQUEELLECRRCRARSFSLPADPILQAAKFLQQQQQAVALGGEGAEDAQLG  
PGGCCAKCKKRVQFADTLGLSLASVKHFSEAEPPQVPPAVLSRLRSFPMRAEDLEQLGGL  
LAAAAVAAPLSAPPSRLRPLFQLPGPSAAAERLQRQVCLERVQCSTASGAEVKSGSRVL  
SCPGPRAVTVRYTFTEWRSFLDVPALQPEPLEPQQPEAPSGASEPGSGDAKKEPGAECF  
HFSCLPPLQPEDEEDADERGVAVHFAVCYRCAQGEYWDNNAGANYTLRYARPADAL

>sp|Q96A00|PP14A\_HUMAN Protein phosphatase 1 regulatory subunit 14A OS=Homo sapiens  
GN=PPP1R14A PE=1 SV=1

MAAQLGKRVLSKLQSPSRARGPGGSPGGLQKRHARVTVKYDRRELQRRLDVEKWIDGRL  
EELYRGMEADMPDEINIDELLESEEEERSRKIQGLLKSCGKPVDFIQELLAKLQGLHR  
QPGLRQPSPSHDGSLSPLQDRARTAH

>sp|O60927|PP1RB\_HUMAN Protein phosphatase 1 regulatory subunit 11 OS=Homo sapiens  
GN=PPP1R11 PE=1 SV=1

MAEAGAGLSETVTETVTVTTEPENRSLTIKLRKRKPEKKVEWTSDTVNEHMGRSSKC  
CCIEYKPRAFGESSTESDEEEEGCGHHCVRGHRKGRRRATLGPTPTTPPQPPDPSQPP  
PGPMQH

>sp|Q86UU1|PHLB1\_HUMAN Pleckstrin homology-like domain family B member 1 OS=Homo sapiens  
GN=PHLDB1 PE=1 SV=1

MDALNRNQIGPGCQTQTMVQKGPLDLIETGKGLKVQTDKPHLVSLGSGRLSTAITLLPLE  
EGRTVIGSAARDISLQGPGLAPEHCYIENLRGTLTYPCGNACTIDGLPVRQPTRLTQGC  
MLCLGQSTFLRFNHPAEAKWMKSMIPAGGRAPGPPYSPVPAESES LVNGNHTPQTATRGP  
SACASHSSLVSSIEKDLQEIMDSLVLLEPGAAGKKPAATSPLSPMANGGRYLLSPPTSPG  
AMSVGSSYENTSPAFSPLSSPASSGSCASHSPSGQEPGPSVPPLVPARSSSYHLALQPPQ  
SRPSGARSESPRLSRKGGHERPPSPGLRGLTDSPAATVLAEEARRATESPRLGGQLPVVA  
ISLSEYPASGALSQPTSIPGSPKFQPPVPAPRNKIGTLQDRPPSPFREPPGSESVLTSTP  
SRQLVGRTFSDGLATRTLQPPESPRLGRRGLDSMRELPLSPSLRRALSPLPTRTTPDP  
KLNREVAESPRPRRWAAHGASPEDFSLTLGARGRRTRSPSPTLGESLAPHKGSFSGRLSP  
AYSLGSLTGASPCQSPCVQRKLSSGDLRVPVTRERKNSITEISDNEDDLLEYHRRQRQER  
LREQEMERLERQRLETILNLCAEYSRADGGPEAGELPSIGEATAALALAGRPSRGLAGA  
SGRSSEEPGVATQRLWESMERSDEENLKEECSTESTQQEHEDAPSTKLQGEVLALEEER  
AQVLGHVEQLKVRVKELEQQQLQESAREAEEMERALLQGERAEERALLQKEQKAVDQLQEKL  
VALETGIQKRDKEAEAELETETKLFEDLEFQQLERESRVEEERELAGQGLLRSKAELLRS  
IAKRKERLAILDSQAGQIRAQAVQESERLARDKNASLQLLQKEKEKLTVLERRYHSLTGG  
RPFPKTTSTLKEMEKLLLPVDLEQWYQELMAGLGTGPAAASPHSSPPPLPAKASRQLQV  
YRSKMDGEATSPLPRTRSGPLPSSSGSSSSSSQLSVATLGRSPSPKSALLTQNGTGSLPR

NLAATLQDIETKRQLALQQKGQVIEEQRRRLAELKQKAAAEACQWDALHGAAPFPAGP  
SGFPPLMHHSILHHLPAGRERGEEGEHAYDTLSLESSDSMETSISTGGNSACSPDNMSSA  
SGLDMGKIEEMKMLKEAHAENRMLMESREREMELRRQALEEERRRREQVERRLQSESAR  
RQQLVEKEVKMREKQFSQARPLTRYLPIRKEDFDLKTTHIESSGHGVDTCMHVLSKVCR  
GYLVKMGGKIKSWKKRWFVFDRLKRTLSYYVDKHETKLKGVIFYQAIIEVYYDHLRSAAK  
KRFFRFTMVTESPNPALTFCVKTHDRLYYVAPSAEAMRIWMDVIVTGAEGYTQFMN

>sp|Q6NSJ2|PHLB3\_HUMAN Pleckstrin homology-like domain family B member 3 OS=Homo sapiens  
GN=PHLDB3 PE=2 SV=3

MGTRSSPEEGTPPLVPECDVEVQPQGHPEESREQEASEVLAEPSSRGGAEQQAEEEEVG  
EGSSTESSRDAPEATPPIAAMAATPPASTSSREGVRGAARRLQGQQLALTRVALMEQRVK  
ELQRQRKELRIEMEVEVALLRGELAGERVAAARREEQLRELLEQQAASEQRGRQREQEQ  
RRLSQERDRLEGLRQLRKAQGQLDSQPEDQERLLQGVQEMREQLDVAQRAYEDLEFQQ  
LERESRQEEEDRDSPPGPVDPKVQELQASMAQHRRGALQHRIRVLEEQLKSLGEQMAAE  
SRGLSRKKEEALQALSQERSRLLLELNLQGTGGDFSEPNPALTKLLFTQKTDRQLLVLQ  
DAVAHSAATPTSSCLFSVHSSLQSGISGLRTGSLPRKRGERGSQRGSPRPLSFHCTESLE  
ASALPPAVGDSGRYPLYQLNCGRGNSCGAIHPDIAHMERLLQQAAMERERLLKAREGTR  
RGTEGSSGPAVPAITAPPTPPHPGPRILDLRQHLEGWGHNPENCPHVQVSGCCCRGPLV  
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>sp|P80108|PHLD\_HUMAN Phosphatidylinositol-glycan-specific phospholipase D OS=Homo  
sapiens GN=GPLD1 PE=1 SV=3

MSAFRLWPGLLIMLGSLSCHRGSPCGLSTHVEIGHRALEFLQLHNGRVNYRELLLEHQDAY  
QAGIVFPDCFYPSICKGGKFHDVSESTHWTPLNASVHYIRENYPLWEKDTKLVAFLF  
GITSHMAADVSWHSLGLEQGFLRTMGAIDFHGSYSEAHSAAGDFGGDVLSQLFEFNFNYLAR  
RWYVPVKDLLGIYEKLYGRKVITENVIVDCSHIQFLEMYGEMLAVSKLYPTYSTKSPFLV  
EQFQEYFLGGLDDMAFWSTNIYHLTSFMLENGTSDCNLPENPLFIACGGQQNHTQGSKMQ  
KNDFHRNLTTSLTESVDRNINYTERGVFFSVNSWTPDSMSFIYKALERNIRTMFIGGSQ  
SQKHVSSPLASYFLSFYPARLGWAMTSADLNQDGHGDLVVGAPGYSRPGHIHIGRVYLIY  
GNDLGLPPVDLDLKEAHRILEGFQPSGRFGSALAVLDFNVDGVPDLAVGAPSVGSEQLT  
YKGAVVYVFGSKQGGMSSSPNITISCQDIYCNLGTLLAADVNGDSEPDLVIGSPFAPGG  
GKQKGIAAFYSGPSLSDKEKLNVEAANWTVRGEEDFSWFGYSLHGVTVDNRTLLLVGSP  
TWKNASRLGHLHIRDEKKSGLRVYGYFPNGQSWFTISGDKAMKGLGTSLSGHVLMNG  
TLKQVLLVGAPTYDDVSKVAFLTVTLHQGGATRMALYALTSQAQPLLLSTFSGDRRFSRFGG  
VLHLSDLDDDGLDEIIMAAPLRIADVTSGLIGGEDGRVYVYNGKETTLGDMTGKCKSWIT  
PCPEKAQYVLISPEASSRFGSSLITVRSKAKNQVIAAGRSSLGARLSGALHVYSLGSD

>sp|Q6UXB8|PI16\_HUMAN Peptidase inhibitor 16 OS=Homo sapiens GN=PI16 PE=1 SV=1

MHGSCSFLMLLLPLLLLVATTGPVGALTDEEKRLMVELHNLRYAQVSPASDMLHMRWD  
EELAFAKAYARQCVWGHNKERGRRENLFITDEGMDVPLAMEEWHHEREHYNLAAATC  
SPGQMCGHYTQVVAKTERIGCGSHFCEKLQVEETNIELLCNYEPPGNVKGKRPYQEG  
TPCSQCPSGYHCKNSLCEPIGSPEDAQDLPYLVTEAPSFRAEASDSRKMGTTPSSLATGI  
PAFLVTEVSGSLATKALPAVETQAPTSLATKDPPSMATEAPPCVTTEVPSILAAHSLPSL  
DEEPTVFPKSTHVIPKSADKVTDKTKVPSRSPENSLDPKMSLTGARELLPHAQEEAEAE  
AELPPSSEVLASVFPAQDKPGELQATLDHTGHTSSKSLPNFPNTSATANATGGRALALQS  
SLPGAEGDPKPSVVSGLNSGPGHVWGPLLGLLLLPPLVLAGIF

>sp|Q5UE93|PI3R6\_HUMAN Phosphoinositide 3-kinase regulatory subunit 6 OS=Homo sapiens  
GN=PIK3R6 PE=1 SV=1

MESSDVELDLQRSVQAVLRELSTQAPALQSNQGMWRWSLHKKVERDPGKSPVLVRILLRE  
LEKAESQDLRHVIIPLLHTVMYVLTAKTGITEELYQRIYAFCTRLLTLPYCTVALDCA  
IRLKTEMAVPGTLYQRMVIAEQNLTNELYPYQERVFLFVDPPELVASVCSALLLEIEAAQ  
AQQTPECTMRHVVSALQAALGEACHAGALHRKLQASPRRTLEHYFHAVVAALQMASEA  
SPSREGHVERLEEIYCSLLGPAAGRCGGDLVQERPPSIPLSPYITFHLWTGEEQLWKEL  
VLFLRPRSQLRLSADLEVLDLQGLRPDRELARVSVLSTDGIERDLPTGADELPAAGSPE  
MERAGLQQRKGKIKRAWPLDFLMPGSDGPPGLHRRTGRPSGDGEMPLGVSRLHTARVLV  
LGDDRMLGRLAQAYHRLRKRETQKFCLTPRLSLQLYYIPVLAPEKPAASRQPELGELATF  
LGRVDPWYQSNVNTLCPAIIHLAEMPPSLDTSRTVDPFILDVITYYIRMGTQPIYFQIYT  
VKIFFSDLSQDPTEDIFLIELKVKIQDSKFPKDGFSRRRGVAEGPGAELSLCYQKALLS  
HRPREVTVSLRATGLILKAIPASDTEVSGSSHCPLAAPVTDHTCLNVNTEVVKSSNLA  
GKSFTVTNTFRTNNIIQISRDQRLTLTSLDKDDQRTFRDVVRFEVAPCPEPCSGAQKSK  
APWLNHLGQQEVEAIKAKPKLLMPINTFSGIVQ

>sp|O75928|PIAS2\_HUMAN E3 SUMO-protein ligase PIAS2 OS=Homo sapiens GN=PIAS2 PE=1 SV=3

MADFEELRNMVSSFRVSELQVLLGFAGRNKSGRKHDLLMRALHLLKSGCSPAVQIKIREL  
YRRYPRTLEGLSDLSTIKSSVFLDGGSSPVEPD LAVAGIHSPLSTSVTPHSPSSPVGS  
VLLQDTKPTFEMQQSPPIPPVHPDVQLKNLPFYDVLVLIKPTSLVQSSIQRFAQEKKFI  
FALTPQQVREICISRDFLPGRRDYTVQVQLRLCLAETSCPQEDNYPNSLCIKVNGKLF  
LPGYAPPPKNGIEQKRGRPLNITSLVRLSSAVPNQISISWASEIGKNYSMSVYLVRQLT  
SALLQRLKMGIRNPDHSRALIKEKLTADPDSEIATTSRLVSLMCPGKMRLTIPCRAV  
TCTHLQCFDAALYLQMNEKKPTWICPVCDKKAAYESLILDGLFMEILNDCSDVDEIKFQE  
DGSWCPMRPKKEAMKVSSQPCTKIESSSVLSKPCSVTVASEASKKVDVIDLTIESSSDE  
EEDPPAKRKCIFMSETQSSPTKGVLMYQPSSVRVPSVTSVDPAAIPPSLTDYSVPFHHTP  
ISSMSSDLPLGLDFLSLIPVDPQYCPMFLDSLTSPLTASSTSVTTTSSHESSTHVSSSS  
RSETGVITSSGSNIPDIISLD

>sp|Q9Y6X2|PIAS3\_HUMAN E3 SUMO-protein ligase PIAS3 OS=Homo sapiens GN=PIAS3 PE=1 SV=2

MAELGELKHMVMSFRVSELQVLLGFAGRNKSGRKHELLAKALHLLKSSCAPSVQMKIKEL  
YRRRFPRKTLGPSDSLSSLSPGTSPVSGPLAPIPPTLLAPGTLLGPKREVDMHPPLP  
QPVHPDVTMKPLPFYEVYGEIIRPTTLASTSSQRFEAAHFTFALTPQQVQQILTSREVLP  
GAKCDYTIQVQLRFCLCETSCPQEDYFPPNLFVKVNGKLCPLPGYLPPTKNGAEPKRPSR  
PINITPLARLSATVPNTIVVNSSEFGRNYSLSVYLVRQLTAGTLLQKLRAKGIRNPDHS  
RALIKEKLTADPDSEVATTSRLVSLMCPGKMRLTVPCRALCAHLQSFDAALYLQMNEK  
KPTWTCVPVCDKKAPYESLIIDGLFMEILSSCSDCDEIQFMEDGSWCPMKPKKEASEVCP  
PGYGLDGLQYSPVQGGDPSENKKKVEVIDLTIESSSDEEDLPPTKKHCSVTSAAIPALPG  
SKGVLTSQHQPSSVLRSPAMGTGGDFLSSPLHEYPPAFPLGADIQGLDLFSFLQTESQ  
HYGPSVITSLDEQDALGHFFQYRGTPSHFLGPLAPTLGSSHCSATPAPPPGRVSSIVAPG  
GALREGHGGLPSGSLTGCRSDIISLD

>sp|Q13492|PICAL\_HUMAN Phosphatidylinositol-binding clathrin assembly protein OS=Homo sapiens GN=PICALM PE=1 SV=2

MSGQSLTDRITAAQHSVTGSAVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLA  
DSL FERTTNSSWVVFKSLITTHLMVYGNERFIQYLASRNTLFNLSNFLDKSGLQGQYDM  
STFIRRYRYLNEKAVSYRQVAFDFTKVKRGADGVMRTMNTTEKLLKTVPIIQNQMDALLD



FNVNSNELTNGVINAAFMFLFKDAIRLFAAYNEGIINLLEKYFDMKKNQCKEGLDIYKKF  
LTRMTRISEFLKVAEQVGIDRGDIPDLSQAPSSLLDALEQHLASLEGKKIKDSTAASRAT  
TLSSNAVSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELAKKPHTSLTTAASP  
VSTSAGGIMTAPAIIDIFSTPSSSNSTSKLPNDLLDLQQPTFHPSVHPMSTASQVASTWGD  
PFSATVDAVDDAIPSLNPFLTSSGDVHLSISSDVSTFTTRPTHEMFVGFTPSPVAQPH  
PSAGLNVDVESVFGNKSTNVI VDSGGFDELGGLLKPTVASQNNQLPVAKLPPSKLVSDDL  
DSSLANLVGNLGIGNGTTKNDVNWSQPGEKKLTGGSNWQPKVAPTTAWNAATMAPPVMAY  
PATPTGMIYGIPPMGSPVMTQPTLIYSQPVMRPPNPFPGPVSGAQIQFM

>sp|Q9HB75|PIDD1\_HUMAN p53-induced death domain-containing protein 1 OS=Homo sapiens  
GN=PIDD1 PE=1 SV=2

MAATVEGPELEAAAAAGDASESDAGSRALPFLGGNRLSLDLYPGGCQQLLHLCVQQPLQ  
LLQVEFLRLSTHEDPQLLEATLAQLPQSLSLRSLVLKGGQRRDTLGACLRGALTNPAG  
LSGLAHLAHLDSLFSNLETLPACVLQMRGLGALLSHNCLSELPEALGALPALTFLTVTH  
NRLQTLPPALGALSTLQRLDLSQNLDDTLPEIGGLGSLELNLASNRLQSLPASLAGLR  
SLRLLVLHSNLLASVPADLARLPLLRDLRDNQLRDLPELLDAPFVRLQGNPLGEASP  
DAPSSPVAALIPMPRLFLTSDLSFPVTPQGCSVTLACGVRLQFPAGATATPITIRYRL  
LLPEPGLVPLGPHDALLSHVLELQPHGVAFQQDVGLWLLFTPPQARRCREVVVRTRNDNS  
WGDLETYLEEEAPQRLWAHCQVPHFSWFLVSRPVSNACLVPPEGTLCCSSGHPGVKVF  
PPGATEEPRRVSMQVVRMAGRELQALLGEPEAAVSPLLCLSQSGPPSFLQPVTVQLPLPS  
GITGLSLDRSRLHLLYWAPPAATWDDITAQVVLELTHLYARFQVTHFSWYWLWYTTKNCV  
GGLARKAWERLRLHRVNLIALQRRRDPEQVLLQCLPRNKVDATLRLLERYRGPEPSDTV  
EMFEGEEFFAAFERGIDVDADRPDCVEGRICFVFYSHLKNVKEVYVTTTLDREAQAVRGQ  
VSFYRGAVPVRVPEEAARQRKGADALWMATLPIKLPRLRGSEGPRRGAGLSLAPNLG  
DAETGFLTQSNLLSVAGRLGLDWPVALHLGVSYREVQRIRHEFRDDLDEQIRHMLFSWA  
ERQAGQPGAVGLLVQALEQSDRQDVAEEVRVLELGRKRYQDSIRRMGLAPKDPALPGSS  
APQPPEPAQA

>sp|P37287|PIGA\_HUMAN Phosphatidylinositol N-acetylglucosaminyltransferase subunit A  
OS=Homo sapiens GN=PIGA PE=1 SV=1

MACRGGAGNGHRASATLSRVSPGSLYTCRTRTHNICMVSDFFYPNMGGVESHYQLSQCL  
IERGHKVIIVTHAYGNRKGIRYLTSGLKVYYLPLKVMYNQSTATTLFHSLPLLRYIFVRE  
RVTI IHSHSFSAMAHDALFHAKTMLQTVFTDHSFLGFADVSSVLTKLLTVSLCDTNH  
IICVSYTSKENTVLRALNPEIVSVIPNAVDPDFTDPDFRRHDSITIVVVSRLVYRKGI  
DLLSGIPELCQKYPDLNFIIGGEGPKRIILEEVRERYQLHDRVRLGAEHKDVRNVLV  
QGHIFLNTSLTEAFMAIVEAASCGLQVVSTRVGGIPEVLPENLIILCEPSVKSLCEGLE  
KAIFQLKSGTLPAPENIHNVKTFYTWARNVAERTEKVYDRVSVEAVLPMDKRLDRLISHC  
GPVTGYIFALLAVNFLFLIFLRWMTPSIIDVAIDATGPRGAWTNNYSHSKRGGENNEI  
SETR

>sp|Q14442|PIGH\_HUMAN Phosphatidylinositol N-acetylglucosaminyltransferase subunit H  
OS=Homo sapiens GN=PIGH PE=1 SV=1

MEDERSFSDICGGRLALQRRYSPSCREFCLSCPRLSLRSLTAVTCTVWLAAYGLFTLCE  
NSMILSAAIFITLLGGLGYLHFVKIDQETLLIIDSLGIQMTSSYASGKESTTFIEMGKVK  
DIVINEATYMQKVIYYLCILLKDPVEPHGISQVVPVFQSAKPRLDCLIEVYRSCQEILAH  
QKATSTSP

>sp|Q9Y2B2|PIGL\_HUMAN N-acetylglucosaminyl-phosphatidylinositol de-N-acetylase OS=Homo sapiens GN=PIGL PE=1 SV=1

MEAMWLLCVALAVLAWGFLVWWDSSERMKSREQGGRLGAESRTLLVIAHPDDEAMFFAPT  
VLGLARLRHWVYLLCFSAGNYNQGETRKKELLQSCDVLGIPLSSVMIIDNRDFPDDPGM  
QWDTEHVARVLLQHIEVNGINLVVTFDAGGVSGHSNHIALYAAVRALHSEGKLPKGCSVL  
TLQSVNVLRKYISLLDLPLSLLHTQDVLFLVLSKEVAQAKKAMSCHRSQLLWFRRLYIIF  
SRYMRINSLSFL

>sp|O95427|PIGN\_HUMAN GPI ethanolamine phosphate transferase 1 OS=Homo sapiens GN=PIGN PE=1 SV=1

MLLFFTLGLLIHFVFFASIFDIYFTSPLVHGMPQFTPLPPPARRLVLFVADGLRADALY  
ELDENGNSRAPFIRNIIMHEGSWGISHTRVPTESRPGHVALIAGFYEDVSAVAKGWKENP  
VEFDSLNFESKYTWSWGSPPDILPMFAKGASGDHVTYSYDAKREDFGAQDATKLDTWVFD  
NVKDFHHRNNQSLFSKINEEKIVFFLHLLGIDTNGHAHRPSSRDYKHNIKKVDDGVKE  
IVSMFNHFYGNKGKTTIFITSDHGMTDWGSHGAGHPSETLTPLVTWGAGIKYPQRVSAQQ  
FDDAFLKEWLENWKRLDVNQADIAPLMTSLIGVPFPLNSVGILPVDYLNNTDLFKAESM  
FTNAVQILEQFKVKMTQKKEVTLFPLFTPFKLLSDSKQFNILRKARSYIKHRKFDEVVSL  
CKELIHLALKGLSYHTYDRFFLGVNVVIGFVGWISYASLLTIKSHSNLIKGVSKVKKP  
SHLLPCSFVAIGILVAFLLIQACPWTYYVYGLPLPIWYAVLREFQVIQDLVSVLTYP  
LSHFVGYLLAFTLGIEVLVLSFFYRYMLTAGLTAFAAWPFLTRLWTRAKMTSLSWTFFSL  
LLAVFPLMPVVGRKPDISLVMGAGLLVLLSLCVVTSMLMRKDSFIKEELLVHLLQVLST  
VLSMYVVYSTQSSLLRKQGLPLMNQIISWATLASSLVVPLLSSPVLFQRLFSILLSLMST  
YLLSTGYEALFPLVLSCLMFVWINIEQETLQQSGVCCQKLTSLIQFSYNTDITQFRQLY  
LDDIRRAFFLVFFLVTAFFGTGNIASINSFDLASVYCFLTVFSPFMMGALMMWKILIPFV  
LVMCAFEAVQLTTQLSSKSLFLIVLVISDIMALHFFFLVKDYGSWLDIGTSISHYVIVMS  
MTIFLVFLNGLAQLLTTKKLRLCGKPKSHFM

>sp|Q9BRB3|PIGQ\_HUMAN Phosphatidylinositol N-acetylglucosaminyltransferase subunit Q OS=Homo sapiens GN=PIGQ PE=1 SV=3

MVLKAFFPTCCVSTDSGLLVGRWVPEQSSAVVLAVLHFPFIPIQVKQLLAQVRQASQVGV  
AVLGTWCHCRQEPEESLGRFLES LGAVFPHEPWRLRCRERGGTFWSCEATHRQAPTAPGA  
PGEDQVMLIFYDQRQVLLSQLHLPVLPDRQAGATTASTGGLAAVFDTVARSEVLFRSDR  
FDEGPVRLSHWQSEGVEASILAELARRASGPICLLASLLSLVSAVSACRVFKLWPLSFL  
GSKLSTCEQLRHRLEHLTLIFSTRKAENPAQLMRKANTVASVLLDVALGLMLLSWLHGRS  
RIGHLADALVPVADHVAEELQHLLQWLMGAPAGLKMNRA LDQVLGRFFLYHIHLWISYIH  
LMSPFVEHILWHVGLSACLGLTVALSLLSDIIALLTFHIYCFYVYGARLYCLKIHGLSSL  
WRLFRGKKWNVLQRVDSCSYDLQFLIGTLLFTILLFLLPTTALYYLVFTLLRLLVVAV  
QGLIHLLVDLINSPLYSGLRLCRPYRLADKPTALQPRGAHLPPPQLWLPQALLGRP  
PQAVPWGAHLPLEAERGQAGLRELLARLAPPHGHSQPSALPGWHQLSWRMSALWTLLCA  
PEHGRPCYHTLGLEVIGSEQMWGWPARLAALHHWHCLPDPLPTCCGHHGGEHSNPRCPE  
HCPMPTLCTQVQVRVPPQQPQVEGWSPWGLPSGSALAVGVEGPCQDEPPSPRHPLAPSAE  
QHPASGGLKQSLTPVPSGPGPSLPEPHGVYLRMFPGVAL

>sp|Q9NQM4|PIHD3\_HUMAN Protein PIH1D3 OS=Homo sapiens GN=PIH1D3 PE=1 SV=1

MESENMDSENMKTENMESQNVDFESVSSVTALEALSKLLNPEEEDDSYGGQTNGLSTIGA  
MGPGNIGPPQIEELKVIPETSEENNEDIWNSEEIPEGAEYDDMWDVREIPEYEIIFRQQV  
GTEDIFLGLSKKDSSTGCCSELVAKIKLPNTNPSDIQIDIQETILDLRTPQKKLLITLPE

LVECTSAKAFYIPETETLEITMTMKRELDIANFF

>sp|Q9H307|PININ\_HUMAN Pinin OS=Homo sapiens GN=PNN PE=1 SV=4

MAVAVRTLQEQLKAKESLKNVDENIRKLTGRDPNDVRPIQARLLALSGPGGGRGGSLL  
LRRGFSDSGGGPPAKQRDLGAVSRLGGERRTRRESRQESDPEDDDVKKPALQSSVVATS  
KERTRRDLIQDNMDEKKGQRNRRIFGLLMGTLQKFKQESTVATERQKRRQEIEQKLEVQ  
AEEERKQVENERRELFEERRAKQTELRLLEQKVELAQLQEEWNEHNAKIIKYIRTKTKPH  
LFYIPGRMCPATQKLIIESQRKMNALFEGRIEFAEQINKMEARPRRQSMKEKEHVVRN  
EEQKAEQEEGKVAQREEELEETGNQHNDVEIEEAGEEEEEKEIAIVHSDAEKEQEEEEQKQ  
EMEVKMEETEVERESEKQQDSQPEEVMVDVLEMVENVKHVIADQEVMETNRVESVEPSENE  
ASKELEPEMEFEIEPDKECKSLSPGKENVSALDMEKESEEEKEESEPEPQPEPVAQPQPQS  
QPQLQLQSQSPVLQSPPSPEDLSLAVLQPTPQVTQEKGHLLPERKDFPVESVKLTEV  
PVEPVLTVHPESKSKTKTRSRSRGRARNKTSKRSRSSSSSSSSSSSSSSSSSSSSSSSGSSSSSGS  
SSSRSSSSSSSSSTSGSSSRDSSSTSSSESRSRSRGRGHNDRKHRRSVDRKRRDTSGL  
ERSHKSSKGGSSRDTKGSKDKNSRSDRKRSISESSRSGKRSSRSDRKSDRKDKRR

>sp|P78337|PITX1\_HUMAN Pituitary homeobox 1 OS=Homo sapiens GN=PITX1 PE=1 SV=2

MDAFKGGMSLERLPEGLRPPPPPHDMGPAFHLARPADPREPLENSASESSDTELPEKER  
GGPEKGPEDSGAGGTGCGGADDPAKKKKQRRQRTHFTSQQLQELEATFQRNRYPDMSMRE  
EIAVWNTLTEPRVRVWFKNRRAKWRKRERNQQLDLCKGGYVPQFSGLVQPYEDVYAAGYS  
YNNWAAKSLAPAPLSTKSFTFFNSMSPLSSQSMFSAPSSISSMTMPSSMGPAGVPGMPNS  
GLNNINNLTGSSLNSAMSPGACPYGTPASPYSVYRDTCNSSLASLRLKSKQHSSFGYGGL  
QGPASGLNACQYNS

>sp|Q9NTG1|PKDRE\_HUMAN Polycystic kidney disease and receptor for egg jelly-related protein OS=Homo sapiens GN=PKDREJ PE=2 SV=2

MRPGPALLLLGVGLSLSVGRLPLPPVPRGAQAAVSGAPGGLLRGAPGLGVRGGRALLSLR  
PSAVRAGGAVLSGRGSLCFPHGGTGRRWYCLDLRVLLSAQRLPWPAAPALALVDLQLSAR  
GGRLSLTWSVRLRSPGRLAWAFRLRLLGPGAARPASPAARVSPRSAAPGPRPQQGFVAR  
TECPTDGPARVMLQAVNSSSHRAVESSVSCQINACVIQVRINTDQKGAPVRLSMQAEAT  
INASVQLDCPAARAIQYWQVFSVPAVGQAPDWTQPLDLPQLEIRNSPLFIHIPNNSLQW  
GVYVNFVTSITTGNPKMPEVKDSDAVYVWIVRSSLQAVMLGDANITANFTEQLILDGST  
SSDPDADSPLQGLQFFWYCTDPRNYGGDRIILGSKEVCHPEQANLKWFWASGPVLTLLP  
ETLKGHDHVFYFRMVIRKDSRTAFSDKRVHVLQGPKAIAHITCIENCERNFIVSDRFSLFL  
NCTNCASRDYFKWSILSSSGEMLFDWMGETVTGRNGAYLSIKAFARHFLEAEFSISLY  
LACWSGVTSVFRHSFIINHGPQIGECKINPAKGIALITKFVVQCSNFRDKHVPLTYKIIV  
SDLHSVGEISSVKENTLGTILYLGPQSTVPPSFLPVGMLASQYGLKIYAQVYDSLGAFSQ  
VTLHATAQAPTDKNSSKTVLNQLLSFTVGPSSLLSTLIQKKDFLPAGYLLYIVASVLNMM  
KTELPLRDDRVLNRKHLIDQSFLLPVSTLVEIGQVMTITKLTQKPSEFTWDAQKRATMR  
VWQANQALQEYQQKDKRFRSEQIEIVSTGILMSLSNILKMTSPHQVVKDPFYVIESLSDT  
ILANKVPGNKTTSMRTPNFNMYVKKEKGWINGLFRNEKHCRNCFYPTLVNSSVPGLSAN  
GPISTMFCDFNTDLFPWLNDQENTSVEVSGFRMTGVADNGSVLEITPDVAEVYLVKRLT  
FAAFNLTVGPNSEVDGSLKKTGGFSFQVDSTVLREVLVHIVTEVMVLFTVLVYTGSI  
PTALVATFLVPHDIPPFASQSALFDPACTVKKARVVCLPVSLQLIAQHSHPHCTVSIV  
LQAPRFVMKLNKLVRSISFSVQCLDMYGIQSEWREGYICILGEKTSWYEVHCICKNVVRA  
RRQLGTIGLTGIIHLHTHYVMAKVIVIPNPVDLRLNIIKSLHQNPVTLFTVLFIILLVGL  
AFWALYRDEMDQHLRGHIVLPDNDPYDNLCTVLTIFTGSRWGSSTRANVFVQLRGTVST

SDVHCLSHPHFTTLYRGSINTFLLTTKSDLGDIHSIRVWHNNEGRSPSWYLSRIKVENLF  
SRHIWLFICQKWSVDTTLDRTFHVTHPDERLTRKDFFFIDVSSNLRKNHMWFSIFASVV  
AKTFNRLQRLSCCLAMLLSLLCNIMFFNLNRQEQTESRERKYMRSMMIGIESVLITIPV  
QLLITLFTCSQRKPQADLKEVSPQKHPLMSEASEHWEEYLKWHAYETAKVHPREVAKP  
ASKGKPRLPKASPKATSKPKHRHRKAQIKTPETLGPNTNSNNIEDDQDVHSEQHPSQKD  
LQQLKKKPRIVLPWWCVYVAWFLVFATSSISSFFIVFYGLTYGYDKSIEWLFASFCSFCQ  
SVLLVQPSKIILLSGFRTNKPKYCKNLSWSTKYKYTEIRLDGMRMHPEEMQRIHDQIVRI  
RGTRMYQPLTEDEIRIFKRKKRIKRRALLFLSYILTHFIFLALLLILIVLLRHTDCFYFN  
QFIRDRFSMDLATVTKLEDIYRWLNSVLLPLLHNDLNPTFLPESSSKILGLPLMRQVRAK  
SSEKMCLPAEFVQNSIRREIHCHPKYGIDPEDTKNYSGFWEVDKQAIDESTNGFTYKP  
QGTQWLYYSYGLLHTYGGGYALYFFPEQQRFNSTLRLKELQESNWLDEKTWAVVLELTT  
FNPDINLFCSSISVIFEVSQLGVVNTSISLHSFSLADFDRKASAEIYLYVAILIFFLAYVV  
DEGCIIMQERASYVRSVYNLLNFALKCIFTVLIVLFLRKHFLATGIIRFYLSNPEDFIPF  
HAVSQVDHIMRIILGFLFLTILKTLRYSRFFYDVRLAQRAIQAALPGICHMAFVVSUYF  
FVYMAFGYLVFGQHEWNYSNLIHSTQTVFSYCVSAFQNTSFNNRILGVLFLSSFMLVMI  
CVLINLFQAVILSAYEEMKQPVYEEPSDEVEAMTYLCRKLRTMFSFLTSQSKAKDEPEFF  
IDMLYGQPEKNSHRYLGLKTRNINGKKMVYLVV

>sp|Q13563|PKD2\_HUMAN Polycystin-2 OS=Homo sapiens GN=PKD2 PE=1 SV=3

MVNSSRVQPQQPGDAKRPPAPRAPDPGRLMAGCAAVGASLAAPGGLCEQRGLEIEMQRIR  
QAAARDPPAGAAASPSPLSSCSRQAWSRDNPGFEAEVEEGGMVEMDVEWRP  
GSRRSAASSAVSSVGARSRLGGYHGAGHPSGRRRRREDQGPSPVGGGDPLHRHLPL  
EGQPPRVAWAERLVRGLRGLWGTRLMEESSTNREKYLKSVLRELVTYLLFLIVLCILTYG  
MMSSNVYYITRMMSQLFLDTPVSKTEKTNFKTLSSMEDFWKFTEGSLDGLYWKMPNSQ  
TEADNRSFIFYENLLGVPRIRQLRVRNGSCSIPQDLRDEIKECYDVYSVSEDRAFPGP  
RNGTAWIYTSEKDLNGSSHWGIATYSGAGYYLDLSRTREETAQVASKKNVWLDRGTR  
ATFIDFSVYNANINLFCVVRLLVEFPATGGVIPSQWQPLKLIRYVTTDFFLAACEIIF  
CFFIFYVVVEEILEIRIHKLHYFRSFWNCLDVIVVLSVVAIGINIYRTSNVEVLLQFLE  
DQNTFPNFEHLAYWQIQFNIAAVTVFFVWIKLKFIFNRTMSQLSTTMSRCAKDLFGF  
AIMFFIIFLAYAQLAYLVFGTQVDDFSTFQECIFTQFRIILGDINFAEIEEANRVLGPIY  
FTTFVFFMFFILLNMFLAIINDTYSEVKSDLAQQAEMELSDLIRKGYHKALVKLKLKKN  
TVDDISESLRQGGGKLNFDLQDLKGKGTDAEIEAIFTKYDQGDQELTEHEHQMRD  
DLEKEREDLDLHSSLPRPMSSRSFPRSLDDSEDDDEDSGHSSRRRGSISSGVSYEEFQ  
VLVRRVDRMEHSIGSIVSKIDAVIVKLEIMERAKLKRREVLGRLLDGAEDERLGRDSEI  
HREQMERLVREELERWESDDAASQISHGLGTPVGLNGQPRPRSSRPSSSQSTEGMEGAGG  
NGSSNVHV

>sp|Q96CS7|PKHB2\_HUMAN Pleckstrin homology domain-containing family B member 2 OS=Homo sapiens GN=PLEKHB2 PE=1 SV=1

MAFVKSGWLLRQSTILKRWKKNWFDLWSDGHLIYYDDQTRQNIEDKVHMPMDCINIRTGQ  
ECRDTQPPDGKSKDCMLQIVCRDGKTI SLCAESTDDCLAWKFTLQDSRTNTAYVGSAMT  
DETSVVSSPPPYTAYAAPAPEQAYGYGPGYGGAYPPGTQVVYAANGQAYAVPYQYPYAGLY  
GQQPANQVIIRERYRDNSDLALGMLAGAATGMALGSLFWVF

>sp|Q9UM63|PLAL1\_HUMAN Zinc finger protein PLAGL1 OS=Homo sapiens GN=PLAGL1 PE=1 SV=2

MATFPCQLCGKFTLTLEKFTIHNYSHSRERPYKCVQPCGKAFVSRYKLMRHMATHSPQK  
SHQCAHCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDL

TCGVCALELGSTEVLLDHLKAHAEEKPPSGTKEKKHQCDHCERCFYTRKDVRRHLVVHTG  
CKDFLCQFCAQRFGRKDHLTRHTKKTHSQELMKESLQTGDLLSTFHTISPSFQLKAAALP  
PFPLGASAQNGLASSLPAEVHSLTSPPEQAAQPMQPLPESLASLHPSVSPGSPPPPLPN  
HKYNTTSTSYSLASPLKADTKGFCNISLFEDLPLQEPQSPQKLNPGFDLAKGNAGKVN  
LPKELPADAVNLTIPASLDLSPLLGFQWQLPPPATQNTFGNSTLALGPGESLPHRLSCLGQ  
QQQEPPLAMGTVSLGQLPLPPIPHVFSAGTGSAILPHFHHAFR

>sp|Q13393|PLD1\_HUMAN Phospholipase D1 OS=Homo sapiens GN=PLD1 PE=1 SV=1

MSLKNEPRVNTSALQKIAADMSNIIENLDTRELHFEGEEVDYDVSPSDPKIQEVYIPFSA  
IYNTQGFKEPNIQTYLSCGPIKAQVLEVERFTSTTRVPSINLYTIELTHGEFKWQVKRKF  
KHFQEFHRELLKYKAFIRIPIPTRRHTFRRQNVREEPREMPSLPRSENMIREEQFLGRR  
KQLEDYLTKILKMPMYRNYHATTEFLDISQLSFIHDLGPKGIEGMIMKRSGGHRIPGLNC  
CGQGRACYRWSKRWLIVKDSFLLYMKPDGAIQAFVLLVDKEFKIKVGKKEETETKYGIRID  
NLSRTLILKCNSYRHARWWGGAIEEFIQKHGTNFKDHRFGSYAAIQENALAKWYVNAKG  
YFEDVANAMEEANEIIFITDWWLSPEIFLKRPPVEGNRWRDCILKRKAQQGVRIFIMLY  
KEVELALGINSEYTKRTLMLRHPNIKVMRHPDHVSSTVYLWAHHEKLVIIDQSFAVGGI  
DLAYGRWDDNEHRLTDVGSVKRVTSGPSLGSPPAAMESMESLRLKDKNEPVQNLPIQKS  
IDDVDSKLGIGKPRKFSKFSLYQLHRHHLHDADSISSIDSTSSYFNHYRSHNLIHGL  
KPHFKLFHPSSSEQGLTRPHADTGSIRSLQTGVGELHGETRFWHGKDYCNFVKDWVQL  
DKPFADFIDRYSTPRMPWHDIASAVHGKAARDVARHFIQRWNFTKIMKSKYRSLSYPFL  
PKSQTTAHELRYQVPGSVHANVQLLRSAADWSAGIKYHEESIHAAYVHVIENSRYIYIE  
NQFFISCADDKVVFNKIGDAIAQRILKAHRENQKYRVYVVIPLLPGFEGDISTGGGNALQ  
AIMHFNYRTMCRGENSILGQLKAELGNQWINYISFCGLRTHAELEGNLVTIELIYVHKKLL  
IADDNTVIGSANINDRSMGLKRDSEMAVIVQDTETVPSVMDGKEYQAGRFARGRLQCF  
RVVLGYLDDPSEDIQDPVSDKFFKEVWVSTAARNATIYDKVFRCLPNDEVHNLILRDFI  
NKPVLAKEDPIRAEELKKIRGFLVQFPFYFLSEESLLPSVGTKEAIVPMEVWT

>sp|Q96N28|PLD3A\_HUMAN PRELI domain containing protein 3A OS=Homo sapiens GN=PRELID3A  
PE=1 SV=1

MKIWSSEHVFGHPWDTVIAAMRKYPNPMNPSVLGVDVLQRRVDGRGRLHSLRLLSTEWG  
LPSSLVRAILGTSRTLTYIREHSVVDPEKKMELCSTNITLNLVSVNERLVYTPHPENPE  
MTVLTQEAIITVKGISLGSYLESLMANTISSNAKKGWAAIEWIIHSESASVS

>sp|Q8N7P1|PLD5\_HUMAN Inactive phospholipase D5 OS=Homo sapiens GN=PLD5 PE=2 SV=2

MEIRQHEWLSASPHEGFEQMRKSRPKEPSPLTRVGANFYSSVKQDYASVWLRRKDK  
LEHSQQKCIVIFALVCCFAILVALIFSAVDIMGEDEDGLSEKNCQNKCRIALVENIPEGL  
NYSENAPFHLSLFQGWMLNMAKKSVDIVSSHWDLNHHTPSACQGQRLFEKLLQLTSQN  
IEIKLVSDVTADSKVLEALKLGAEVTYMNMATYNGRLQSSFWIVDKQHVIYIGSAGLDW  
QSLGQMKELGVIFYNCCLVLDLQRIFALYSSLKFKSRVPQTWSKRLYGVDNEKKLQLQ  
LNETKSQAFVSNPFLFCPKNRSFDIDAIYSVIDDAKQYVYIAVMDYLPISSTSTKRTYW  
PDLDAKIREALVLSRVRLLLSFWKETDPLTFNFISSLKAICTEIANCSLKVKFFDLER  
ENACATKEQKNHTFPRNLNRNKYMTDGAAYIGNFDWVGNDFTQAGTGLVINQADVRNR  
SIIKQLKDVFERDWSPYAKTLQPTKQPNCSSLFKLKPLSNKTATDDTGKDPNRV

>sp|P00747|PLMN\_HUMAN Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

MEHKEVLLLLLLFLKSGQEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEDEEFT  
CRAFQYHSKEQQCVIMAENRKSSIIIRMRDVVLFKKVYLSECKTGNGKNYRGTMSTKN  
GITCQKWSSTSPHRPRFSPATHPSEGLEENYCRNPNDPQGPWCYTTPDKRYDYCDILE

CEECEMHCSENYDGIKSKTMSGLECAWDSQSPHAHGYIPSKFPKNLKKNYCRNPDRE  
LRPWCFTTDPNKRWELCDIPRCTTPPPSSGPTYQCLKGTGENYRGNVAVTVSGHTCQHWS  
AQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPWCHTTNSQVRWEYCKIPSCDSSPVSTE  
QLAPTAPPELTPVVQDCYHGDGQSYRGTSSTTTTGKKCQSWSSMTPHRHQKTPENYPNAG  
LTMNYCRNPDADKGPWCFTTDPVSRWEYCNLKKCSGTEASVVAPPPVLLPDVETPSEED  
CMFGNGKGYRGKRATTVTGTPCQDWAAQEPHRHSIFTPETNPRAKLEKNYCRNPDGDVGG  
PWCYTTNPRKLYDYCDVPQCAAPSFDCGKPKQVEPKKCPGRVVGCVAPHSWPQVSLRT  
RFGMHFCGGTLISPEWVLTAACHLEKSPRPSSYKVILGAHQEVNLEPHVQEIEVSRLFLE  
PTRKDIALLLSSPAVITDKVIPACLSPSNYVADRTECFITGWGETQGTGAGLLKEAQ  
LPVIENKVCNRYEFLNGRVQSTELCAGHLAGGTDSCQGDGGPLVCFEKDKYILQGVTSW  
GLGCARPKNKPGVYVRVSRFVTWIEGVMRNN

>sp|O60568|PLOD3\_HUMAN Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 OS=Homo sapiens  
GN=PLOD3 PE=1 SV=1

MTSSGPGPRLLLLPLLLPPAASASDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAE  
FFNYTVRTLGLGEEWRGGDVARTVGGGQKVRWLKKEMEYADREDMIIMFVDSYDVILAG  
SPTELLKKFVQSGSRLLFSAESFCWPEWGLAEQYPEVGTGKRFLNSGGFIGFATTIHQIV  
RQWKYKDDDDQLFYTRYLDPLGREKLSLNLDHKSRIQNLNGALDEVVLKFDRNRVRI  
RNVAYDTLPIVVHGNPTKLQLNLYGNYPNGWTPGGCGFCNQDRRTLPGGQPPPRVFL  
AVFVEQPTPFLPRFLQRLLLLDYPPDRVTFLHNNEVFHEPHIADSWPQLQDHFSVAVKL  
GPEEALSPGEARDMAMDLCRQDPECEFYFSLDADAVLTNLQTLRILIEENRKVIAPMLSR  
HGKLWSNFWGALSPEYYARSEDYVELVQRKRVGVWNPYISQAYVIRGDTLRMELPQRD  
VFSGSDTDPMAFCKSFRDKGIFLHLSNQHEFGRLATSRYDTEHLHPDLWQIFDNPVDW  
KEQYIHENYSRALEGEQPCPDVYWFPLLSEQMCDELVAEMEYHQQWSSGRHEDSRL  
AGGYENVPTVDIHMKQVGYEDQWLQLLRTYVGPMTESLFPGYHTKARAVMNFVVRYPDE  
QPSLRPHHDSSTFTLNVALNHKGLDYEGGCRFLRYDCVISSPRKGWALLHPGRLTHYHE  
GLPTTWGTRYIMVSFVDP

>sp|Q04941|PLP2\_HUMAN Proteolipid protein 2 OS=Homo sapiens GN=PLP2 PE=1 SV=1

MADSERLSAPGCWAACTNFSRTRKGILLFAEIIILCLVILICFSASTPGYSSLSVIEMILA  
AIFVVMCDLHTKIPFINWPWSDFFRTLIAAILYLITSIVVLVERGNHSHKIVAGVLGLI  
ATCLFGYDAYVTFPVQRHTAAPTDPADGPV

>sp|Q7Z6Z6|PLPL5\_HUMAN Patatin-like phospholipase domain-containing protein 5 OS=Homo sapiens GN=PNPLA5 PE=2 SV=1

MGFLEEGRWNLSFSGAGYLGAHHVGATECLRQRAPRLQGAIRIYSSSGALNAVSIVC  
GKSVDFFCCSHLLGMVGQLERLSLSILHPAYAPIEHVKQLQDALPPDAHVLASQRLGISL  
TRWPDGRNFLVTDFATCDELIQALVCTLYFPFYCGLIPPEFRGERYIDGALSNNLPFADC  
PSTITVSPFHGTVDICPQSTSPNLHELNVFNFSFQISTENFFLGLICLIPPSLEVADNC  
RQGYLDALRFLERRGLTKPEVLWTLVSKEPPAPADGNWDAGCDQRWKGGLSLNWVPHVQ  
VKDVPNFEQLSPELEAALKKACTRDPNRWARFWHSGPGQVLTYYYLLPCTLPFEYIYFRSR  
RLVVWLPDVPADLWWMQGLLRNMALEVFSRTKAQLLGPISPPATRVLETSPQLPQIAPHR  
EELGPTHQA

>sp|Q8NEB5|PLPP5\_HUMAN Phospholipid phosphatase 5 OS=Homo sapiens GN=PLPP5 PE=1 SV=2

MGKAAAFAVGAFLVRLALFAAFLVTELLPPFQRLIQPEEMWLYRNPYVEAEYFPTKPM  
FVIAFLSPLSLIFLAKFLKKADTRDSRQACLAASLALALNGVFTNTIKLIVGRPRPDFFY  
RCFPDGLAHSMLMCTGDKDVVNEGRKSFPSGHSSFAFAGLAFASFYLAGKLHCFTPQGRG

KSWRFCAFLSPLLFAAVIALSRTC DYKHHWQDVLVGSMIGMTFAYVCYRQYYPPPLTDAEC  
HKPFQDKLVLSTAQKPGDSYCFDI

>sp|Q6P1K2|PMF1\_HUMAN Polyamine-modulated factor 1 OS=Homo sapiens GN=PMF1 PE=1 SV=2  
MAEASSANLGSCEKRHEGSSSESVPPGTTISRVKLLDTMVDTFLLQKLVAAGSYQRFTD  
CYKCFYQLQPAMTQQIYDKFIAQLQTSIREEISDIKEEGNLEAVLNALDKIVEEGKVRKE  
PAWRPSGIPEKDLHSVMAPYFLQQRDTLRRHVQKQEAENQQLADAVLAGRRQVEELQLQV  
QAQQQAWQALHREQRELVAVLREPE

>sp|P07738|PMGE\_HUMAN Bisphosphoglycerate mutase OS=Homo sapiens GN=BPGM PE=1 SV=2  
MSKYKLIMLRHGEAWNKENRFSWVDQKLNSEGMEEARNCGKQLKALNFEFDLVFTSVL  
NRSIHTAWLILEELGQEWVPVESSWRNLNERHYGALIGLNREQMALNHGEEQVRLWRRSYN  
VTPPIEESHPIYQEIYNDRRYKVCVPLDQLPRSESLKDVLERLLPYWNERIAPEVLRG  
KTILISAHGNSRALLKHLEGISDEDIINITLPTGVPILLELDENLRAVGPHQFLGDQEA  
IQAAIKKVEDQGKVKQAKK

>sp|Q8NAT1|PMGT2\_HUMAN Protein O-linked-mannose beta-1,4-N-acetylglucosaminyltransferase  
2 OS=Homo sapiens GN=POMGNT2 PE=1 SV=1  
MHLSAVFNALLVSVLA AVLWKHVRLREHAATLEELALSRQATEPAPALRIDYPKALQIL  
MEGTHMVCTGRTHDTRICRFKWL CYSNEAE EIFFHGNTSVMLPNLGSRRFPALLDLS  
TVEDHNTQYFNFVELPAAALRFMPKPVFVPDVALIANRFPDNLMHVFHDDLLPLFYTLR  
QFPGLAHEARLFFMEGWGEGAHFDLYKLLSPKQPLLRAQLKTLGRLLCFSHAFVGLSKIT  
TWYQYGFVQPGPKANILVSGNEIRQFARFMTEKLVNSHTGVPLGEEYILVFSRTQNRLI  
LNEAELLLALAQEFQMKTVTVSLEDHTFADVRLVSNASMLVSMHGAQLVTTLFLPRGAT  
VVELFPYAVNPDHYTPYKTLAMLPGMDLQYVAWRNMPENTVTHPERPWDQGGITHLDRA  
EQARILQSREVPRHLCCRNPEWLFRIYQDTKVDIPSLIQTIRRVVKGRPGPRKQKWTVGL  
YPGKVREARCAQSVHGASEARLTVSWQIPWNLKYLKVREVKYEVWLQE QGENTYVPYILA  
LQNHTFTENIKPFTTYLVWVRCIFNKILLGPFADVLCNT

>sp|Q7Z5L7|PODN\_HUMAN Podocan OS=Homo sapiens GN=PODN PE=1 SV=2  
MAQSRVLLLLLLLPPQLHLGPVLAVRAPGFGRRSGGHSLSPEENEFAEEEPVLVLSPEEPG  
PGPAAVSCPRDCACSQEGVVDCCGIDLREFPGDLPEHTNHL SLQNNQLEKIYPEELSRLH  
RLETNLNQNRLTSRGLPEKA FEHLTNLNYLYLANNKLTAPRFLPNALISVDFAANYLT  
KIYGLTFGQKPNLRSVYLHNNKLADAGLPDNMFNGSSNVEVLILSSNFLRHVPKHLPPAL  
YKLHLKNNKLEKIPPGAFSELSSREL YLQNNYLTDEGLDNETFWKLSSLEYLDLSSNNL  
SRVPAGLPRSLVLLHLEKNAIRSDANVLTPIRSLEYLLHLSNQLREQGIHPLAFQGLKR  
LHTVHLYNNALERVPSGLPRRVRTLMILHNQITGIGREDFATTYFLEELNLSYNRITSPQ  
VHRDAFRKRLRLSLDLSGNRLHTLPPGLPRNVHVLKVKRNELAAALARGALVGMAQLREL  
YLTSNRLRSRALGPRAWDLAHLQLLDIAGNQLTEIPEGLPESLEYLYLQNNKISAVPAN  
AFDSTPNLKGIFLRFNKLAVGSVVD SAFRRLKHLQVLDIEGNLEFGDISKDRGRLGKEKE  
EEEEEEEEEEETR

>sp|Q9UNA4|POLI\_HUMAN DNA polymerase iota OS=Homo sapiens GN=POLI PE=1 SV=3  
MEKLGVEPEEEGGDDDEEDAEAWAMELADVGAASSQGVHDQVLPTPNASSRVIVHVDL  
DCFYAQVEMISNPELKD KPLGVQQKYL VVTCNYEARKLGVKLMNVRDAKEKCPQLVLVN  
GEDLTRYREMSYKVTELEEFSPVVERLGF DENFVDLTEMVEKRLQQLQSDELSAVTVSG  
HVYNNQSINLLDVLHIRLLVGSQIAAEMREAMYNQLGLTGCAGVASNKLLAKLVSGVFKP  
NQQT VLLPESQHLIHSNLHIKEIPGIGYKTAKCLEALGINSVRDLQTFSPKILEKELGI  
SVAQRIQKLSFGEDNSPVILSGPPQSFSEEDSFKKCSSEVEAKNKIEELLASLLNRVCQD

GRKPHTVRLIIRRYSSSEKHYGRESRQCPIPSHVIQKLGTYDVMTPMVDILMKLFRNMV  
NVKMPFHLTLLSVCFCNLKALNTAKKGLIDYYLMPSLSTTSRSGKHSFKMKDTHMEDFPK  
DKETNRDFLPSGRIESTRTRESPLDTTNSKEKDINEFPLCSLPEGVDQEVFKQLPVDIQ  
EEILSGKSREKFQKGVSVCPLHASRGVLSFFSKKQMDIPINPRDHLSSSKQVSSVSPC  
EPGTSGFNSSSSSYMSSQKDYSYLDNRLKDERISQGPKEPQGFHFTNSNPAVSAFHSFP  
NLQSEQLFSRNHTTDSHKQTVATDSHEGLTENREPDSDVEKITFPSDIDPQVFYELPEAV  
QKELLAEWKRAGSDFHIGHK

>sp|Q15166|PON3\_HUMAN Serum paraoxonase/lactonase 3 OS=Homo sapiens GN=PON3 PE=1 SV=3

MGKLVALVLLGVGLSLVGEMFLAFRERVNASREVEPVEPENCHLIEELESSESIDILPS  
GLAFISSGLKYPGMPNFAPDEPGKIFLMDLNEQNPRAQALEISGGFDKELFNPHGISIFI  
DKDNTVYLYVNNHPHMKSTVEIFKFEEQQRSLVYLKTIKHELLKSVNDIVVLGPEQFYAT  
RDHYFTNSLLSFFEMILDLRWTVYLVFYSPREVKVAKGFCSANGITVSADQKYVYVADVA  
AKNIHIMEKHNDWDLTQLKVIQLGTLVDNLTVDPATGDILAGCHPNPMKLLNYPEDPPG  
SEVLRIQNVLSEKPRVSTVYANNGSVLQGTSVASVYHGKILIGTVFHKTLYCEL

>sp|Q8N131|PORIM\_HUMAN Porimin OS=Homo sapiens GN=TMEM123 PE=1 SV=1

MGLGARGAWAALLGLTLQVLALLGAAHESAAMAASANIENSGLPNSSANSTETLQHVPS  
DHTNETSNSTVKPPTSVASDSSNTTVTTMKPTAASNTTTPGMVSTNMTSTTLKSTPKTTS  
VSQNTSQISTSTMTVTHNSSVTSAASSVTITTTMHSEAKKGSKFDTGFSFVGGIVLTGLVL  
SILYIGCKMYYSRRGIRYRTIDEHDAII

>sp|Q9H8P0|PORED\_HUMAN Polyprenol reductase OS=Homo sapiens GN=SRD5A3 PE=1 SV=1

MAPWAEAEHSALNPLRAVWLTLTAAFLTLQLLPPGLLPGCAIFQDLIRYGKTKCGEP  
SRPAACRAFDVPKRYFSHFYIISVLWNGFLLWCLTQSLFLGAPFPSWLHGLLRILGAAQF  
QGGELALSFAFLVLVFLWLHSLRRLFECLYVSFVSNVMIHVVQYCFGLVYVVLVGLTVLSQ  
VPM DGRNAYITGKNLLMARWFHILGMMFIWSSAHQYKCHVILGNLRKNKAGVVIHCNH  
RIPFGDWFEYVSSPNYLAELMIYVSMVTFGFHNLTWLVVTNVFFNQALSAFLSHQFYK  
SKFVSYPKHKRAFLPFLF

>sp|Q96QR8|PURB\_HUMAN Transcriptional activator protein Pur-beta OS=Homo sapiens GN=PURB  
PE=1 SV=3

MADGDSGSESGGGGPGCFQPASRGGEQETQELASKRLDIQNKRFYLDVKQNAKGRFLK  
IAEVGAGGSKSRLTSLMAVAAEFRDSLGDFTIEHYAQLGPSSPEQLAAGAEEGGPRRALK  
SEFLVRENKYYLDLKENQRGRFLRIRQTVNRGGGGFAGPGPGGLQSGQTIALPAQGLI  
EFRDALAKLIDDYGGEDDELGGPGGGAGGPGGGLYGEPEGTSITVDSKRFFFDVGCNK  
YGVFLRVSEVKPSYRNAITVPFKAWGKFGGAFCRYADEMKEIQERQRDKLYERRGGGSGG  
GEESEGEEVDED

>sp|Q3MIT2|PUS10\_HUMAN Putative tRNA pseudouridine synthase Pus10 OS=Homo sapiens  
GN=PUS10 PE=1 SV=1

MFPLTEENKHVAQLLLNTGTCPRCIFRFCGVDFHAPYKLPYKELLNELQKFLETEKDELI  
LEVMPNPPPKIRLQELEDSDNLSQNGEGRISVSHVGSTASKNSNLNVCNVCLGILQEFC  
EKDFIKKVCQKVEASGFETSLVFSVSFPPQLSVREHAALLVKQEMGKQSLSLGRDDIV  
QLKEAYKWITHPLFSEELGVPIDGKSLFEVSVVFAPHPETVEDCHFLAACPDCFKPAKNK  
QSVFTRMAVMKALNKIKEEDFLKQFPCPPNSPKAVCAVLEIECAHGAVFVAGRYNKYSRN  
LPQTPWIIDGERKLESSVEELISDHLLAVFKAESFNFSSSGREDDVDVRTLGNGRPFAL  
VNPVRVHFTSQEIKELQQKINNSSNKIQVRDLQLVTREAIHGMKEGEEKTKTYSALIWT  
NKAIQKKDIEFLNDIKDLKIDQKTPLRVLHRRPLAVRARVIFHMETQYVDEHHFRLHLKT



QAGTYIKEFVHGDFGRTPKNIGSLMNVTTADILELDVESVDVDWPPALDD

>sp|075192|PX11A\_HUMAN Peroxisomal membrane protein 11A OS=Homo sapiens GN=PEX11A PE=1 SV=1

MDAFTRFTNQTQGRDRLFRATQYTCMLLRYLLEPKAGKEKVVMLKKLESSVSTGRKWFR  
LGNVVHAIQATEQSIHATDLVPRCLCLTLANLNRVIYFICDTILWVRVGLTSGINKEKWR  
TRAAHHYYYSLLLSLVRDLYEISLQMKRVTCRAKKEKSASQDPLWFSVAEEETEWLQSF  
LLLLFRSLKQHPPLLLDTVKNLCDILNPLDQLGIYKSNPGIIGLGLVSSIAGMITVAYP  
QMKLKTR

>sp|Q8NFP0|PXT1\_HUMAN Peroxisomal testis-specific protein 1 OS=Homo sapiens GN=PXT1 PE=2 SV=2

MKKKHDGIVYETKEVLNPSPKVTHCCKSLWLKYSFQKAYMTQLVSSQVPAMSRNPDHNL  
LSQPKEHSIVQKHHQEEIIHKLAMQLRHIGDNIDHRMVREDLQQDGRDALDHFVFFFR  
VQVLLHFFWNNHLL

>sp|Q8TE99|PXY1\_HUMAN 2-phosphoxylase 1 OS=Homo sapiens GN=PXYLP1 PE=1 SV=1

MLFRNRFLLLLALAFVSLQFFHLIPVSTPKNGMSSKSRKRIMPDVTEPPVTD  
VYEALLYCNIPSAERSMEGHAPHHFKLVSVHVFIRHGDRYPLYVIPKTKRPEIDCTLVA  
NRKPYHPKLEAFISHMSKSGASFESPLNSLPLYPNHPLCEMGELTQTGVVQHLQNGQLL  
RDIYLKKHKLPPNDWSADQLYLETTGKSRTLQSGLALLYGFLPDFDWKKIYFRHQPSALF  
CSGSCYCPVRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAKIVDVPTKQLRAANPIDSMC  
HFCHNVSPCTRNGCVDMEHFVKIKTHQIEDERERREKKLYFGYSLLGAHPILNQTIGRM  
QRATEGRKEELFALYSAHDVTLSPVLSALGLSEARFPRFAARLIFELWQDREKPSEHSVR  
ILYNGVDVTFHTSFCQDHHKRSKPMCPLENLVRVFKRDMFVALGGSGTNYDACHREGF

>sp|P11498|PYC\_HUMAN Pyruvate carboxylase, mitochondrial OS=Homo sapiens GN=PC PE=1 SV=2

MLKFRTVHGGRLRLGIRRTSTAPAASPNVRRLEYKPIKKVMVANRGEIAIRVFRACTELG  
IRTVAIYSEQDTGMHRQKADEAYLIGRGLAPVQAYLHIPDIIKVAKENNVDVHVPYGF  
LSERADFAQACQDAGVRFIGSPPEVVRKMGDKVEARAIAAAGVPVVPDAPITSLHEA  
HEFSNTYGFPIIFKAAYGGGRGMRVVHSYEELEENYTRAYSEALAAFNGALFVEKFIE  
KPRHIEVQILGDQYGNILHLIERDCSIQRRHQKVVEIAPAAHLDPQLRRLTSDSVKLAK  
QVGYENAGTVEFLVDRHGKHYFIEVNSRLQVEHTVTEEITDVLVHAQIHVAEGRSLPDL  
GLRQENIRINGCAIQCRVTTEPARSFQPDGTGRIEVFRSGEGMGIRLDNASAFQGAVIS  
HYDSSLVKVIAHGKDHTAATKMSRALAEFRVRGVKTNIAFLQNVLNQQFLAGTVDVTF  
IDENPELFQLRPAQNRAQKLLHYLGHVNVNGPTTIPVKASPSPTDPVVPVAVPIGPPAG  
FRDILLREGPEGFARAVRNHPGLLLMDTTFRDAHQSLLATRVTHDLKKIAPYVAHNFSK  
LFSMENWGGATFDVAMRFLYECPWRRQLRELIPNIPFQMLLRGANAVGYTNPDPNVF  
KFCEVAKENGMDVFRVFDLNYLPNMLLGMEAAGSAGGVVEAAISYTGVDADPSRTKYS  
QYYMGLAEELVRAGTHILCIKDMAGLLKPTACTMLVSSLRDRFPDLPLHIHHTDTSAGV  
AAMLACAQAGADVDDAADSMSGMTSQPSMGALVACTRGTPDLTEVPMERVFYSEYWE  
ARGLYAAFDCATMKSGNSDVYENEIPGGQYTNLHFQAHSMLGSKFKEVKKAYVEANQM  
LGDLIKVTSSKIVGDLAQFMVQNGLSRAEAEAEELSFPRSVVEFLQGYIGVPHGGFP  
EPFRSKVLKDLPRVEGRPGASLPPLDLQALEKELVDRHGEEVTPEDVLSAAMPDVF  
KDFATATFGPLDSLNTLFLQGPKIAEEFEVELERGKTLHIKALAVSDLNRAQQRQVFFEL  
NGQLRSILVKDTQAMKEMHFHPKALKDVKGQIGAPMPGKVIDIKVVAGAKVAKGQPLCVL  
SAMKMETVVTSPMEGTVRKVHVTKDMTLEGDDLILEIE

>sp|Q8WXC3|PYDC1\_HUMAN Pyrin domain-containing protein 1 OS=Homo sapiens GN=PYDC1 PE=1 SV=1

MGTKREAILKVLLENLTPEELKKFKMKLGTVPPLREGFERIPRGALGQLDIVDLTDKLVASY  
YEDYAAELVVAVLRDMRMLLEEAAARLQRAA

>sp|Q9BRP8|PYM1\_HUMAN Partner of Y14 and mago OS=Homo sapiens GN=PYM1 PE=1 SV=1

MEAAGSPAATETGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVKFFKSKPELP  
PGLSPEATAPVTPSRPEGGEPLSKTAKRNLKRKEKRRQQQEKGEAEALSRTLDKVSLEE  
TAQLPSAPQGSRAAPTAASDQPDSAAATTEKAKKIKNLKKLKRQVEELQQRIQAGEVSQPS  
KEQLEKLARRRALEEELEDLELGL

>sp|Q02127|PYRD\_HUMAN Dihydroorotate dehydrogenase (quinone), mitochondrial OS=Homo sapiens GN=DHODH PE=1 SV=3

MAWRHLKKRAQDAVILGGGGLLFASYLMATGDERFYAEHLMPTLQGLLDPESAHRLAVR  
FTSLGLLPRARFQSDMLEVRVLGHKFRNPVGIAAGFDKHGEAVDGLYKMGFGFVEIGSV  
TPKPQEGNPRPRVRLPEDQAVINRYGFNSHGLSVVEHRLRARQQKQAKLTEDGLPLGVN  
LGKNKTSVDAAEDYAEQVRVLGLADYLVVNSSPNTAGLRSLQGKAE LRRLTKVLQER  
DGLRRVHRPAVLVKIAPDLTSQDKEDIASVVKELGIDGLIVTNTTVSRPAGLQGALRSET  
GGLSGKPLRDLSTQTI REMYALTQGRVPIIGVGGVSSGQDALEKIRAGASLVQLYTALTF  
WGPPVVGKVKREALLKEQFGGVTDAIGADHRR

>sp|P50876|R144A\_HUMAN E3 ubiquitin-protein ligase RNF144A OS=Homo sapiens GN=RNF144A PE=1 SV=2

MTTTRYRPTWDLALDPLVSCKLCLGEYPVEQMTTIAQCQCIFCTLCLKQYVELLIKEGLE  
TAISCPDAACPKQGHLENEIECMVAAEIMQRYKKLQFEREVLFDPCRTWCPASTCQAVC  
QLQDVGLQTPQPVPQCKACRMEFCSTCKASWHPGQGCPETMPITFLPGETSAAFKMEEDDA  
PIKRCPKCKVYIERDEGCAQMMCKNCKHAFWCYCLESDDDFLLIHDKGPCRNKLGHRS  
ASVIWHRTQVVGIFAGFGLLLVASPFLLLATPFVLCCCKCKCSKGDDDLPT

>sp|Q9Y620|RA54B\_HUMAN DNA repair and recombination protein RAD54B OS=Homo sapiens GN=RAD54B PE=1 SV=1

MRRSAAPSQLQGSFKKPKFIPGRSNPGLNEEITKLNPDIKLFEGVA INNTFLPSQNDL  
RICSLNLPSEESTREINNNDNCSGKYCFEAPTLATLDPHTVHSAPKEVAVSKEQEEKSD  
SLVKYFSVWCKPSKKKKHKKWEGDAVLIVKGKSFILKNLEKDIGRGIGYKFKELEKIEE  
GQTLMICGKEIEVMGVISPDDFSSGRCFQLGGGSTAISHSSQVARKCFSNPFKSVCKPSS  
KENRQNDQFQNCPRHDPYTPNSLVMPRPDKNHQWVFNKNCPLVDVVIDPYLVYHLRPHQ  
KEGIIFLYECVMGMRMNGRCGAILADEMGLGKTLQCISLIWTLQCQGPYGGKPVIKKTLI  
VTPGSLVNNWKKEFQKWLGSERIKIFTVDQDHKVEEFIKSIFYSVLIISYEMLLRSLDQI  
KNIKFDLLICDEGHRLKNSAIKTTTALISLSCEKRIILTGTPIQNDLQEFFALIDFVNPG  
ILGSLSSYRKIYEPIILSREPSASEEEKELGERRAAELTCLTGLFILRRTQEII NKYLP  
PKIENVVFCRPGALQIELYRKLLNSQVVRFCQLQGLLENSPHLICIGALKKLCNHPCLLFN  
SIKEKECSSTCDKNEEKSLYKGLLSVFPADYNPLLFTESGKLQVLSKLLAVIHEL RPT  
EKVVLSNYTQTLNILEVCKRHGYAYTRLDGQTPISQRQQIVDGFNSQHSSFFIFLLSS  
KAGVGVLNLIGGSHLILYDIDWNPATDIQAMSRVWRDQKYPVHIYRLTTGTIEEKIYQ  
RQISKQGLCGAVVDLTKTSEHIQFSVEELKNLFTLHESSDCVTHDLLDCECTGEEVHTGD  
SLEKFIVSRDQLGPHHQSNSLKPLSMSQLKQWKHFGDHLNLTDPFLE RITENVSFIF  
QNITTQATGT

>sp|Q9NP72|RAB18\_HUMAN Ras-related protein Rab-18 OS=Homo sapiens GN=RAB18 PE=1 SV=1

MDEDVLTTLKILIIIGESGVGKSSLLLRFTDDTFDELAATIGVDFKVKTISVDGNKAKLA  
IWDTAGQERFRTLTPSYRGAQGVILVYDVTRRDTFVKLDNWLNELETYCTRNDIVNMLV  
GNKIDKENREVDREGLKFARKHSMFLIEASAKTCDGVQCAFEELVEKIIQTPGLWESEN  
QNKGVKLSHREEGQGGGACGGYCSVL

>sp|P51157|RAB28\_HUMAN Ras-related protein Rab-28 OS=Homo sapiens GN=RAB28 PE=1 SV=2  
MSDSEEEQDRQLKIVVLGDGASGKTSLTTCFAQETFGKQYKQTIGLDFLRRITLPGNL  
NVTLQIWDIGGQTIGGKMLDKYIYGAQGVLLVYDITNYQSFENLEDWYTVVKKVSEESSET  
QPLVALVGNKIDLEHMRTIKPEKHLRFCENGFSSHFVSAKTGDSVFLCFQKVAEILGI  
KLNKAEIEQSQRVVKADIVNYNQEPMSRTVNPPRSSMCAVQ

>sp|Q15286|RAB35\_HUMAN Ras-related protein Rab-35 OS=Homo sapiens GN=RAB35 PE=1 SV=1  
MARDYDHLFKLLIIGDSGVGKSSLLRFADNTFSGSYITTIGVDFKIRTVEINGEKVKLQ  
IWDTAGQERFRTITSTYYRGTHGVIVVYDVTSAESFVNVRWLHEINQNCDDVCRILVGN  
KNDDPERKVVETEDAYKFAGQMGIQLFETSAKENVNVEEMFNCITELVLRKKDNLAKQQ  
QQQQNDVVKLTKNSKRKKRCC

>sp|P20337|RAB3B\_HUMAN Ras-related protein Rab-3B OS=Homo sapiens GN=RAB3B PE=1 SV=2  
MASVTDGKTGVKDASDQNFDMFKLLIIGNSSVGKTSFLFRYADDTFTPAFVSTVGIDFK  
VKTVYRHEKRVKLQIWDTAGQERYRTITTAYYRGAMGFILMYDITNEESFNAVQDWATQI  
KTYSWDNAQVILVGNKCDMEEEVVPTKEGQLLAEQLGFDFFEASAKENISVRQAFERLV  
DAICDKMSDSLTDPSMLGSSKNTRLSDTPPLLQQNCSC

>sp|P61018|RAB4B\_HUMAN Ras-related protein Rab-4B OS=Homo sapiens GN=RAB4B PE=1 SV=1  
MAETYDFLFKFLVIGSAGTGKSCLLHQFIENKFKQDSNHTIGVEFGSRVNVGGKTVKLQ  
IWDTAGQERFRSVTRSYRGAAGALLVYDITSRETYNSLAAWLTDARTLASPNIVVILCG  
NKKDLDPEREVTFLEASRFAQENELMFLETSALTGENVEEAFLKCARTILNKIDSGELDP  
ERMGSIGIQYGDASLRQLRQPRSAQAVAPQPCGC

>sp|Q92930|RAB8B\_HUMAN Ras-related protein Rab-8B OS=Homo sapiens GN=RAB8B PE=1 SV=2  
MAKTYDYLFKLLIIGDSGVGKTCLLFRFSEDAFNNTTISTIGIDFKIRTIELDGKKIKLQ  
IWDTAGQERFRTITTAYYRGAMGIMLVYDITNEKSFDNIKNWIRNIEEHASSDVERMILG  
NKCDMNDKRQVSKERGEKLAIDYGIKFLETSKSSANVEEAFFTLARDIMTKLNRKMND  
NSAGAGGPVKITENRSKKSFFRCSLL

>sp|P63000|RAC1\_HUMAN Ras-related C3 botulinum toxin substrate 1 OS=Homo sapiens GN=RAC1  
PE=1 SV=1  
MQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAG  
QEDYDRLRPLSYPQTDVFLICFSLVSPASFENVRAKWYPEVRHHCNTPPIILVGTKDLR  
DDKDTIEKLKEKLTPTITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLCPP  
PVKKRKRKCLLL

>sp|075943|RAD17\_HUMAN Cell cycle checkpoint protein RAD17 OS=Homo sapiens GN=RAD17 PE=1  
SV=2  
MSKTFLRPKVSSTKVTDWDPDFLECSGVSTITATSLGVNNSHRRKNGPSTLESSR  
FPARKRGNLSSLEQIYGLENSKEYLSENEPWVDKYKQTPETQHELAVHKKKIEEVETWLKAQ  
VLERQPKQGSILLITGPPGCGKTTTLKILSKEHGIQVQEWINPVLPDFQKDDFKGMFNT  
ESSFHMFPYQSQIAVFKEFLLRATKYNKLQMLGDDLRTDKKIIILVEDLPNQFYRDSHTLH  
EVLRYVIRIGRCPLIFIISDSLSDNNQRLFPKEIQECSISNISFNPVAPTIMMKFLN  
RIVTIEANKNGGKITVPDKTSLELLCQGCSGDIRSAINSLQFSSSKGENNLRPRKKGMSL  
KSDAVLSKSKRRKKPDRVFENQEVQAIGGKDVSLFLFRALGKILYCKRASLTELDSPLRP

SHLSEYERDTLLVEPEEVVEMSHMPGDLFNLVYLHQNIDFFMEIDDIVRASEFLSFADIL  
SGDWNTRSLREYSTSIATRGVMHSNKARGYAHCQGGGSSFRPLHKPQWFLINKKYRENC  
LAAKALFPDFCLPALCLQTQLLPYLALLTIPMRNQAQISFIQDIGRLPLKRHFGRLEKMEA  
LTDREHGMIDPDSGDEAQLNGGHSAAEESLGEPTQATVPETWSLPLSQNSASELPASQPQP  
FSAQGDMEENIIIEDYESDGT

>sp|Q9H0K6|PUS7L\_HUMAN Pseudouridylate synthase 7 homolog-like protein OS=Homo sapiens  
GN=PUS7L PE=1 SV=1

MEEDTDYRIRFSSLCFFNDHVGFHGTIKSSPSDFIVIEIDEQGQLVNKTIDEPIFKISEI  
QLEPNFPPKPKLDLQNLSELDGRNQEVHTLIKTYTDGDQNHQSGSEKEDTIVDGTSCKEE  
KADVLSSFLDEKTHELLNNFACDVREKWLKTELIGLPPEFSIGRILDKNQASLHSAIR  
QKFPFLVTVGKNSIIVKPNLEYKELCHLVSEEEAFDFFKYLDAKKENSFTFKPDTNKD  
HRKAVHHFVNKKFGNLVETKFSKMNCSSAGNPVNVTVRFREKAHKGKRPLSECQEGKV  
IYTAFTLRKENLEMFEAIGFLAIKLGVIPSDFSYAGLKDKKAITYQAMVVRKVTPERLKN  
IEKEIEKKRMNVFNIRSVDLSRLGQLKGNHFDIVIRNLKKQINDSANLRERIMEAIENTV  
KKKGFVNYYGPPQRFQKGRKVHTDQIGLALLKNEMMKAIKLFTPEDLDDPVNRAKKYFLQ  
TEDAKGTLMLPEFKVRERALLEALHRFGMTEEGCIQAWFSLPHSMRIFYVHAYTSKIWN  
EAVSYRLETYGARVVQGDVLCLEDDIDENFPNSKIHLVTEEEGSANMYAIHQVVLPLVG  
YNIQYPKNKVGQWYHDILSRDGLQTCRFKVP TLKLNIPGCYRQILKHPCNLSYQLMEDHD  
IDVKTGSHIDETALSLLISFDLDASCYATVCLKEIMKHDV

>sp|Q5JQD4|PYY3\_HUMAN Putative peptide YY-3 OS=Homo sapiens GN=PYY3 PE=5 SV=1

MVSVCRPWPAAVAIALALLVCLGALVDTCPKPEAPGEDESLEELSHYYASLCHYLVNVT  
RQWWEADMW

>sp|Q2KHR3|QSER1\_HUMAN Glutamine and serine-rich protein 1 OS=Homo sapiens GN=QSER1 PE=1  
SV=3

MNFLSTAESRTAQAASGTTLLPQFRAPSWQTMHSSAATELFATGPLPSTGTLPPSLSA  
YQHPTTFSNRNFATTSPLVLQDSTFNNTSNGILSHHDPLLQIKTSQGTVP TALA FERLGS  
SVLSNSIPPQSSTYRSAQESAPHLLQPQFSLPSALGGSQQTQAYSSTLFTSSTASIER  
ALLRECSVIKHHQRPSGTQSIQAQLTGSQHSLSYLSNSSVNVNFQETTRQSSLSCSPIGD  
STQVSNGLLQKQTSQVSVELAQSYSSAIPSSGYPPSTTKIKSCSTEQPLTSTKTPKPQSI  
IPPVQTLSSYKPLHNQSSVISGQAQIYSTAQLPSLLSVSQSQNYGLVQPHNVPSIVHSQV  
YRSSKVEKLPLYKTLTFSGSSQTVTPENQTLNYSSNQEVLSSTNENYPAQTRDLSSV  
SQSQSYSSGHSQGLSPVSQTQVSYSQSVLSVSLSESYASGESLTLTAPSLSYSSASR  
AQNLPDSSPTQNYISMHSSQNVQTQESSSPQSQKFLPAVQSSSFASSTHCQTLQNNITSP  
DPKSYAERKLSDSVYPSSKQEDGFPMQELQVLQPQASLESSTQRLSDGEINAQESTYKVS  
KADDRYSQSVIRNSRLEDQVIGVALQASKKEESVVGSVTQLNQIQGVNNAATLDLKN  
TNLIQTPQIRLNTKDLKQHQPLILKVHESKVQE QHDQIINASSQIQIPNHALGHGHQASL  
PNTQVLLDSACDLQILQQSILQAGLGQVKASLQAQRVQSPQQIVHPFLQMEGHVIQSNGD  
HSQQQLHPQNSEVMKMDLSESSKPLQQLHTTKGHFSETNQHDSKNQFVSLGSMCFPEAVL  
LSDERNILSNVDDILAATAAACGVTP TDFSKSTSNETMQAVEDGDSKSHFQQSLDVRHVT  
SDFNSMTATVGKPNINDTSLNGNQVTVNLSPPVPAALQSKMTLDQQHIETPGQNIPTKVT  
AVVGPSHEVQE QSSGPFFKQSATNLESEEDSEAPVDSTLNNNRNQEFVSSSRISGENAT  
SESEFTLGDDSGVMNPARSALALLAMAQSGDAVSVKIEENQDLMHFNLQKKRAKKGK  
QVKEEDNSNQQLKRPAAQGRQNPRTDIYLPYTPPSSSESCHDGYQH QEKMRQKIKEVEE  
KQPEVKTGFIAFLDFLKSQKQFSTLAVRMPNRRPQTQMVRTFCPPPLPKPSSTTP

TPLVSETGGNSPSDKVDNELKNLEHLSSFSSDEDDPGYSQDAYKSVSTPLTTLDATSDKK  
KKTEALQVATTSPANTTGTATTSSSTTVGAVKQEPLHSTSYAVNILENISSESSKPIEL  
DGLPSDQFAKGQDVAIEGFTDEEDTESGGEGQYRERDEFVVKIEDIETFKEALKTGKEP  
PAIWKVQKALLQKFVPEIRDGQREFAATNSYLGFGDAKSKYKRIYVKFIENANKKEYVR  
VCSKKPRNKPSQTIRTVQAKPSSSSKTSPLASKTTTTKAPSVKPKVKQPKVKAEPKK  
RKKWKKEEFSSSQSDSSPEIHTSSSDDEEFEPAPFVTRFLNTRAMKETFKSYMELLVSIA  
LDPDTMQALEKSNDLELLPHMKKIDGMLNDNRKRLLLNLHLDQSFKNALESFPELTIITR  
DSKAKSGGTAISKIKMNGKAYNKKTLRTSKTTTSAQEFVDPEKIQLYSLYHSLHHYKY  
HVYLICKDEISSVQKKNEDLGQEEIVQLCMKNVWVEDLFEKFGELLNHVQQKCS

>sp|Q6ZRP7|QSOX2\_HUMAN Sulphydryl oxidase 2 OS=Homo sapiens GN=QSOX2 PE=1 SV=3

MAAAGAAVARSPGIGAGPALRARRSPPRAARLPRLLVLLAAAAGVPGAGGAARLYRAGE  
DAVWVLDSGSVRGATANSSAAWLQFYSSWCGHCIGYAPTWRALAGDVRDWASAIRVAAL  
DCMEEKNQAVCHDYDIHFYPTFRYFKAFTKEFTTGENFKGPDRELRTVRQTMIDFLQNHT  
EGSRPPACPRLDPIQPSDVLSLLDNRGSHYVAIVFESNSSYLGREVILDIPYESIVVTR  
ALDGDKAFLEKLGVSVPSCYL IYPNGSHGLINVVKPLRAFFSSYLKSLPDVRKKSPLP  
EKPHKEENSEIVVWREFDKSKLYTVDLESLHYLLRVELAAHKSLAGAEKTLKDFVTVL  
AKLPGRPPVKKLLEMLQEWLASPLDRIPYNAVLDLVNNKMRIISGIFLTNHIKWGCQG  
SRSELRGYPCSLWKLFTLTVEASTHPDALVGTGFEDDPQAVLQTMRRYVHTFFGCKECG  
EHFEEMAKESMDSVKTPDQAILWLWKKHNMVNGRLAGHLSIEDPRFPKLQWPTDLCACH  
EEIKGLASWDEGHVLTFLKQHYGRDNLDTYSADQGDSSSEGGTLARGEERKLTPEVS  
HGDRDTQSVRPPGALGPRPALPESLHSLDGKQLSLDGPGAHEVGGAAPFLGVDFSSLD  
MSLCVVLYVASSLFLMVMYFFFRVRSRRWKVHHHPAV

>sp|Q8WV60|PTCD2\_HUMAN Pentatricopeptide repeat-containing protein 2, mitochondrial  
OS=Homo sapiens GN=PTCD2 PE=1 SV=3

MVRDSMAAAFRPSNRVLLQALQILVYPGVGSGSVSCRCPLGAKRYLLTDNVVKLEFQQ  
KKVAVACNLSGTKETYFRNLKKKLQNKLIKLGELITLLHLCESRDHVELAKNVIYRYHA  
ENKNFTLGEYKFGPLFVRLCYELDLEESAVELMKDQHLRGFFSDSTSFNILMDMLFIK GK  
YKSALQVLIEMKNQDVKFTKDTYVLAFAICYKLNSPESFKICTTLREEALLKGEILSRRA  
SCFAVALALNQNEMAKAVSIFSQIMNPESIAICINLNI IHIQSNMLENLIKTLKNAEEN  
LSKFVKRHVFSEEVLAKVREKVKDVPALVAKFDEIYGTLHITGQVTTDSLDAVLCHTPRD  
RKSHTLLL NKRMSRRTFQPLSQSLAE

>sp|P41222|PTGDS\_HUMAN Prostaglandin-H2 D-isomerase OS=Homo sapiens GN=PTGDS PE=1 SV=1

MATHHTLWMGLALLGVLGDLQAAPEAQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKA  
ALSMCKSVVAPATDGLNLTSTFLRNQCETRTMLLPAGSLGSYSRSPHWGSTYSVSV  
VETDYDQYALLYSQSGKPGEDFRMATLYSRTQTPRAELKEKFTAFCKAQGFTEDTIVFL  
PQTDKCMTEQ

>sp|Q8N4Q0|PTGR3\_HUMAN Prostaglandin reductase 3 OS=Homo sapiens GN=ZADH2 PE=1 SV=1

MLRLVPTGARAI VMSYARHFLDFQGS AIPQAMQKLVVTRLSPNFREAVTLSRDCPVPLP  
GDGDLVRNRFVGVNASDINYSAGRYDPSVKPPFDIGFEGIGEVVALGLSASARYTVGQA  
VAYMAPGSFAEYTVVPASIA TPVPSVKPEYLTLLVSGTTAYISLKEGLSEGKKVLVTA  
AAGGTGQFAMQLSKKAKCHVIGTCSSDEKSAFLKSLGCDRPIN YKTEPVGTVLKQEYPEG  
VDVVYESVGGAMFDLAVDALATKGR LIVIGFISGYQTPTGLSPVKAGTLP AKLLKKSASV  
QGFFLNHYLSKYQAAMSHLLEMCVSGDLVCEVDLGDSLPEGRFTGLESIFRAVNYMYMGK  
NTGKIVVELPHSVNSKL

>sp|Q3SYG4|PTHB1\_HUMAN Protein PTHB1 OS=Homo sapiens GN=BBS9 PE=1 SV=1

MSLFKARDWWSTILGDKEEFDQGCLCLANVDNSGNGQDKIIVGSFMGYLRIFSPHPAKTG  
DGAQAEDLLLEVDLRDPVLQVEVGKFSVSGTEMLHLAVLHSRKL CVYSVSGTLGNVEHGNQ  
CQMMLMYEHNLRQTACNMITYSGFGVKGRDLICIQSMDGMLMVFEQESYAFGRFLPGFLL  
PGPLAYSSRTDSFLT VSSCQQVESYKYQVLAFATDADKRQETEQQKL GSGKRLVVDWTLN  
IGEQA LDICIVSFNQ SASSVFVLGERNFFCLKDNGQIRFMKKLDWSPSCFLPYCSVSEGT  
INTLIGNHNNMLHIYQDVTLKWATQLPHIPVAVRVGCLHDLKGVIVTLSDDGHLQCSYL  
G TDPSLFQAPNVQSRELNYDEL DVEMKELQKI IKDVNKSQGVWPMTEREDDLNVSVVSPN  
FDSVSQATDVEVGTDL VPSVTVKVTLQNRVILQKAKLSVYVQPPEL LTCDQFTFEFMTPD  
LTRTVSFSVYLKRSYTPSELEGNVVSYSRPTDRNPDGIPRVIQCKFRLPLKLICLPGQP  
SKTASHKII TIDTNKSPVSLLSLFPGFASQSDDDQVNMGMFHLGGARITVLASKTSQRYR  
IQSEQFEDLWLITNELILRLQEYFEKQGVKDFACSFSGSIPLQEYFELIDHHFELRINGE  
KLEELLSERAVQFRAIQRRLLARFKDKTPAPLQHLDTLLDGTYKQVIALADAVEENQGNL  
FQSFTRLKSATHLVILLIALWQKLSADQVAILEAAFLPLQEDTQELGWEETVDA AISHL  
L KTCLSKSSKEQALNLSQLNIPKDTSQLKKHITLLCDRLSKGGRLCLSTDAAAPQTMVMP  
GGCTTIPESDLEERSVEQDSTELFTNHRHLTAETPRPEVSPLQGVSE

>sp|Q9BZE2|PUS3\_HUMAN tRNA pseudouridine(38/39) synthase OS=Homo sapiens GN=PUS3 PE=1 SV=3

MAYNDTDRNQTEKLLKRVRELEQEVQRLKKEQAKNKEDSNIRENSAGAGKTKRAFDFSAH  
GRRHV ALRIAYMGWGYQG FASQENTNNTIEEKLFEALTKTRLVESRQTSNYHRCGRTDKG  
VSAFGQVISL DLRSQFPRGRDSEDFNVKEEANA AAEIRYTHILNRVLPPDIRILAWAPV  
EPSFSARFSCLE RTYRYFFPRADLDIVTMDYAAQKYVGTHDFRNLCMDVANGVIN FQRT  
ILSAQVQLVGQSPGEGRWQEPFLCQFEVTGQAFLYHQVRCMMAILFLIGQGMKEPEIID  
ELLNIEKNPQKPQYSMAVEFPLVLYDCKFENVKWIYDQEAQEFNITHLQQLWANHAVKTH  
MLYSMLQGLDTPVPCGIGPKMDGMEWGNVKPSVIKQTSAFVEGVKMRTYKPLMDRPKC  
QGLESRIQH FVRRGRIEHPHLFHEETKAKRDCNDTLEEENTNLETPTKRVCVDTEIKSI  
I

>sp|P15151|PVR\_HUMAN Poliovirus receptor OS=Homo sapiens GN=PVR PE=1 SV=2

MARAMAAAWPLLLVALLVLSWPPPGTGDVVVQAPTQVPGFLGDSVTLP CYLQVPNMEVTH  
VSQLTWARHGESGSM AVFHQTQGPSYSESKRLEFVAARLGAELRNASLRMFGLRVEDEGN  
YTCLFVTFPQGSRSVDIWLRLAKPQNTAEVQKVQLTGEPVPMARCVSTGGRPPAQITWH  
SDLGMPNTSQVPGFLSGTVTVTSLWILVPSSQVDGKNVTCKVEHESFEKPQLLT VNLT  
V YYPEVVISISGYDNNWYLGQNEATLTCDARSNPEPTGYNWSTTMGPLPPFAVAQGAQLLIR  
PVDKPIINTT LICNVTNALGARQAELTVQVKEGPPSEHSGISRNAIIFLVLGILVFLILG  
IGIYFYWSKCSREVLWHCHLCPSTEHASASANGHVSYSAVSRENSSSQDPQTEGTR

>sp|Q96N64|PWP2A\_HUMAN PWWP domain-containing protein 2A OS=Homo sapiens GN=PWWP2A PE=1 SV=2

MAVA AEAAATAASPGEGGAGEAEPMEPIPGSEAGTDPLPVTATEASVPDGETDGGQSA  
PQADEPPLPPPPPPGELARSPEAVGPELEAEEKLSVRVAESAAAAPQGGPELPPSPASP  
PEQPPAPEEREEPPLPQPVAPALVPPAGGDSTVSQ LIPGSEVRVTL DHIIEDALVVSFRF  
GEKLFSGV LMDLSKRFGPHGIPVTVPFKREYKDKPEAMPLQSNTFQEGTEVKCEANGAVP  
DDPSPVPHPELSLAESLWTSKPPPLFHEGAPYPPPLFIRD TYNQSIQPPPRKIKRPKRK  
MYREEPTSIMNAIKLRPRQVLCDKCKNSVVAEKKEIRKGSSATDSSKYEDKKRRNESVTT  
VNKKLKT DHKVDGKNQNESQKRNAVVKVSNIAHSRGRVVKVSAQANTS KAQLSTKKVLQS

KNMDHAKAREVLKIAKEKAQKKQNETSTSKNAHSKVHFTRRYQNPSSGSLPPRVRLKPQR  
YRNEENDSSLKTGLEKMRSKMAPKPKSRCTSTRSAGEAPSENQSPSKGPÉEASSEVQDT  
NEVHVPGDQDEPQTLGKKGSKNNISVYMTLNQKKSDSSASVCSIDSTDLLKSSNSECSS  
SESFDFPPGSMHAPSTSTSSSSKEEKKLSNSLKMVFSKNVSKCVTPDGRITCVGDIVW  
AKIYGFPWWPARILTITVSRKDNGLLVQRQEARISWFGSPTTSFLALSQSPFLENFQSRF  
NKKRKGLYRKAITEAAKAAKQLTPEVRALLTQFET

>sp|Q8N2H3|PYRD2\_HUMAN Pyridine nucleotide-disulfide oxidoreductase domain-containing  
protein 2 OS=Homo sapiens GN=PYROXD2 PE=1 SV=2

MAASGRGLCKAVAASPFPAWRDNTAARGGLKPEYDAVIGAGHNLVAAAYLQRLGVNT  
AVFERRHVIGGAAVTEEIIPGFKFSRASYLLSLLRPQIYTDLELKKHGLRLHLRNPYSFT  
PMLEEGAGSKVPRCLLLGTDMAENQKQIAQFSQKDAQVFPKYEEFMHRLALAIIDPLLDAA  
PVDMAAFQHGSLLQMRSLSTLKPILLKAGRILGAQLPRYEVLTAPITKVLQDQWFESEPL  
KATLATDAVIGAMTSPHTPGSGYVLLHHVMGGLEGMQGAWGYVQGGMGALSDAIASSATT  
HGASIFTEKTVAQVQVNSEGCVQGVVLEDGTEVRSKMVLSNTSPQITFLKLTQEWLPEE  
FLERISQLDTRSPVTKINVAVDRLPSFLAAPNAPRGQPLPHHQC SIHLNCEDTLLHQAQF  
EDAMDGLPSHRPVIELCIPSSLDPTLAPPGCHVVSFTQYMPYTLAGGKAWDEQERDAYA  
DRVFDCEIYVYAPGFKDSVVGRIIDLTTPDLERIFGLPGGNIFHCAMSLDQLYFARVPLHS  
GYRCPLQGLYLCSGSAHPGGGVMGAAGRNAAHVAFRDLKSM

>sp|Q16769|QPCT\_HUMAN Glutaminyl-peptide cyclotransferase OS=Homo sapiens GN=QPCT PE=1  
SV=1

MAGGRHRRVVGTLHLLLLVAALPWASRGVSPSASAWPEEKYHQPAILNSSLARQIAEGT  
SISEMWQNDLQPLLIERYPGSPGSAARQHIMQRIQRLQADWVLEIDTFLSQTPYGYRSF  
SNIISTLNPTAKRHLVLACHYDSKYFSHWNNRVFVGATDSAVPCAMMLELARALDKKLLS  
LKTVSDSKPDLSQLIFFDGEEAFLHWSQDSLYGSRHLAAKMASTPHPPGARGTSQLHG  
MDLLVLLDLIGAPNPTFPNFFPNSARWFERLQAIEHELHELGLLKDHSLEGRYFQNYSYG  
GVIQDDHIPFLRRGVPLHLIPSPFPEVWHTMDDNEENLDESTIDNLNKILQVFVLEYLH  
L

>sp|Q8TBN0|R3GEF\_HUMAN Guanine nucleotide exchange factor for Rab-3A OS=Homo sapiens  
GN=RAB3IL1 PE=1 SV=1

MWSGPPQPDQGLPPPLAAVPVPWKSTDPCQGHRESPGALVETSAGEEAQGQEGPAAAQLD  
VLRLRSSSMEIREKGSEFLKEELHRAQKELKLKDEECERLSKVREQLEQELEELTASLFE  
EAHKMVREANMKQAASEKQLKEARGKIDMLQAEVTALKTLVITSTPASPNNRELHPQLLSP  
TKAGPRKGHSRHKSTSSTLCPAVCPAAGHTLTPDREGKEVDITLFAEFQAWRESPTLTKT  
CPFLERVYREDVGPCLDFTMQELSVLVRAAVEDNTLTIEPVASQTLPTVKVAEVDCCSTN  
TCALSGLTRCTRHRIRLGDSKSHYYISPSSRARITAVCNFFTYIRYIQQGLVRQDAEPMF  
WEIMRLRKEMSLAKLGFFPQEA

>sp|Q86UN3|R4RL2\_HUMAN Reticulon-4 receptor-like 2 OS=Homo sapiens GN=RTN4RL2 PE=1 SV=1

MLPGLRRLQAPASACLLLMLLALPLAAPSCPMLCTCYSSPPTVSCQANNFSSVPLSLPP  
STQRLFLQNNLIRTLRPGTFGSNLLTLWLFSNNLSTIYPGTFRHLQALEELDLGDNRLR  
SLEPDTFQGLERLQSLHLYRCQLSSLPGNIFRGLVSLQYLYLQENSLHLQDDLFADLAN  
LSHLFLHGNRLRLTEHVFRGLGSLDRLLLHGNRLQGVHRAAFRGLSRLTILYLFNNSLA  
SLPGEALADLPSLEFLRLNANPWACDCRARPLWAWFQARARVSSSDVTCTPPERQGRDLR  
ALREADFQACPPAAPTRPGSRARGNSSNHLVGVAEAGAPPADPSTLYRDLPAEDSRGRQ  
GGDAPTEDDYWGGYGGEDQRGEQMCPGAACQAPPDSRGPALSAGLPSPLLCLLLLVPHHL

>sp|Q09MP3|R51A2\_HUMAN RAD51-associated protein 2 OS=Homo sapiens GN=RAD51AP2 PE=1 SV=1

MSLPQPTPRMAELRKPTSSLTTPPEDPDSQPPSSKRLCLEEPGGVFKAGWRLPLVPRLSEA  
EKVWELSPRPFGKLLVSTNAIFDNSTDSCEKSVSGKQICNLKCSNLKFMSSCLQSPPS  
QSPSDLRASGRSEAGLHDREAFSVHRSNSSKAGVSQLLPSTSIHDIHGIRNENRKQFV  
QGRDNVHKENPFLDVTFYKETKSPFHEIKNRCKANSVVP SNKRENNISSSVLKISKSQNQ  
PSLEIAKPSYFRDSGTISVPQFPMDLNSKMSSVYLKEIAKKKNDKKEAYVRDFTNIYWSQ  
NRPDVKKQKLQNDKKTVEAENIFSKCYENDYPSLSSQNTCKRKDLISSNYCNCSSIQCNV  
RDSRKNFAILENANWEEAECLDSYVLRLEKSNWDCNVRHILRRNRGNCWIINNCKTKC  
ENMKKTEEKWNWLLLLLEIDLKSKEDYHCAKVINAYEEQSKLLVREILGSQTALITTVWLN  
GKGENDNTLQLRYNTTQKV FHVNNPFESFII EIFYFHKSISGNKKDNSILTCNILKCKK  
QIGIIGIQNLITRMNTNIKNGILSIYLDQSVSEPLDILLKTNIAFLNNFDSLTRIEND  
FELEEECIFKCMYLYKYPKNIVENHTAYLVKILTSSRLLEDNMKPMLKKRKLFRTEQVFE  
KSKKKLINSFSMTTQNTGFP IFETYEKIPLLMDFDDMDEISLIREITCQNMSCPQQVVNV  
ENWAHNSSTVKAHGNSCPQFIQNNRGYINENFYEVNMHSQDLNMERKQGHNKISNFDCE  
HIFEDLCNVRQQAIPASHNIIHNEETHTTSITQVLNFWNLLSEIEEKKYDLILKEEVKT  
AESLTNSCQVHKDTKIEKEEKDSFFPMDDMFSVQSVSLISKEVNVEENKYVNQNYVTNTN  
EYESILPEREIANSKDFHRKND SALYINHQFETGLSEGND ECFQDLAAKYLSTEALTIVK  
DFEMKRKFDLVLEELRMFHEISRENELLSTVETNNGQENYFGENDA EKVKMEIEKDLKMV  
VVNKIRASSSFHDTIAGPNMGKSHQSLFKWKTVPNNGEQEVPNESCYP SRSEEELLYSTS  
EKDCETPLPKRPAFLPDECKEEFN YLLRGGSHPHGISRVRPLKTC SRPIRIGLSRKARI  
KQLHPYLKQMCYGNLKENF

>sp|O43502|RA51C\_HUMAN DNA repair protein RAD51 homolog 3 OS=Homo sapiens GN=RAD51C PE=1 SV=1

MRGKTRFRFEMQRDLVSFPLSPAVRVKLVSAGFQTAEELLEVPSELSKEVGISKAELET  
LQIIIRRECLTNKPRYAGTSESHKKCTALELLEQEHTQGFIITFCSALDDILGGGVPLMKT  
TEICGAPGVGKTQLCMQLAVDVQIPECFGGVAGEAVFIDTEGSFMVDRVVDLATAQIHL  
QLIAEKHKGEHRKALEDFTLDNILSHIYYFRCDYTELLAQVYLLPDFLSEHSKVR LVI  
VDGIAFPFRHDLDDLRLTRLLNGLAQQMISLANHRLAVILTNQMTTKIDRNQALLVPA  
LGESWGHAATIRLIFHWDRKQRLATLYKSPSQKECTVLFQIKPQGFRD TVVTSACSLQTE  
GSLSTRKRSRDPEEEL

>sp|Q6IQ22|RAB12\_HUMAN Ras-related protein Rab-12 OS=Homo sapiens GN=RAB12 PE=1 SV=3

MDPGAALQRRAGGGGGLGAGSPALSGGQRRRKQPPRPADFKLVIIIGSRGVGKTSLME  
RFTDDTFCEACKSTVGVD FKIKTVELRGKKIRLQIWDTAGQERFNSITSAYYRSAKG IIL  
VYDITKKETFDLDPKWMKIDKYASEDAELLVGNKLCETDREITRQQGEKFAQQITGM  
RFCEASAKDNFNVD EIFLKLVD DILKKMPLDILRNELSNSILSLQPEPEIPPELPPPRPH  
VRCC

>sp|P59190|RAB15\_HUMAN Ras-related protein Rab-15 OS=Homo sapiens GN=RAB15 PE=1 SV=1

MAKQYDVLFRLLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDFKMKTIEVDGIKVRIQ  
IWDTAGQERYQTITKQYYRAQGIFLVYDISSERSYQHIMKWSDVDEYAPEGVQKILIG  
NKADEEQKRQVGREGQQLAKEYGMDFYETSACTNLNIKESFTRLTELVLQHRKELEGL  
RMRASNELALAELEEEEGKPEGPANSSKTCWC

>sp|A4D1S5|RAB19\_HUMAN Ras-related protein Rab-19 OS=Homo sapiens GN=RAB19 PE=2 SV=2

MHFSSSARAADENFDYLFKIIILIGDSNVGKTCVVQHFKSGVYTETQQNTIGVDFTVRSLD  
IDGKKVKMQVWDTAGQERFRTITQSYYSAAHAAIIAYDLTRRSTFESIPHWIHEIEKYGA



ANVIMLIGNKCDLWEKRHVLFEACTLAEKYGLLAVLETSAKESKNIEEVFLMAKELI  
ARNSLHLYGESALNGLPLDSSPVLMAQGPSEKTHCTC

>sp|Q8WUD1|RAB2B\_HUMAN Ras-related protein Rab-2B OS=Homo sapiens GN=RAB2B PE=1 SV=1  
MTYAYLFKYIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIGVEFGARMVNIDGKQIKLQIW  
DTAGQESFRSITRSYYRGAAGALLVYDITRRETFNHLTSWLEDARQHSSSNMVIMLIGNK  
SDLESRRDVKREEGEAFAREHGLIFMETSAKTACNVEEAFINTAKEIYRKIQQGLFDVHN  
EANGIKIGPQQSISTSVGPSASQRNSRDIGSNSGCC

>sp|Q13637|RAB32\_HUMAN Ras-related protein Rab-32 OS=Homo sapiens GN=RAB32 PE=1 SV=3  
MAGGGAGDPGLGAAAAPAPETREHLFKVLVIGELGVGKTSIIKRYVHQLFSQHYRATIGV  
DFALKVLNWDSTLVRQLWDIAGQERFGNMTRVYKEAVGAFVVDISRSTFEAVLKW  
KSDLDKSVHLPNGSPIPAVLLANKCDQNKDSSQSPSQVDQFCKEHGFAGWFETSAKDIN  
IEEAARFLVEKILVNHQSFPNEENDVDKIKLDQETLRAENKSQCC

>sp|P20339|RAB5A\_HUMAN Ras-related protein Rab-5A OS=Homo sapiens GN=RAB5A PE=1 SV=2  
MASRGATRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEFQESTIGAAFLTQ  
TVCLDDTTVKFEIWDTAGQERYHSLAPMYRGAQAAIVVDITNEESFARAKNWKELQR  
QASPNIVIALSGNKADLANKRAVDFQEAQSYADDNSLLFMETSAKTSMNVNEIFMAIAKK  
LPKNPQNPGANSARGRGVDLTEPTQPTRNQCCSN

>sp|Q9NP90|RAB9B\_HUMAN Ras-related protein Rab-9B OS=Homo sapiens GN=RAB9B PE=1 SV=1  
MSGKSLLLKVILLGDGGVGKSSLMNRYVTNKFDQAFHTIGVEFLNRDLEVDGRFVTLQI  
WDTAGQERFKSLRTPFYRGADCCLLTFSVDDRQSFENLGNWQKEFIYADVDPHFV  
VLGNKVDKEDRQVTTEEAQTCMENGDPYLETSAKDDTNVTVAFEEAVRQVLAVEEQLE  
HMLGHTIDLNSGSKAGSSCC

>sp|Q15276|RABEP1\_HUMAN Rab GTPase-binding effector protein 1 OS=Homo sapiens GN=RABEP1  
PE=1 SV=2

MAQPGPASQPDVSLQQRVAELEKINAFLRAQQLEQEFNQKRAKFKELYLAKEEDLKRQ  
NAVLQAAQDDLGLHRLTQLWEAQAEMENIKAIATVSENTKQEAIDEVKRQWREEVASLQAV  
MKETVRDYEYHQLRLEQERTQWAQYRESAEREIADLRRRLSEGQEEENLENEMKKAQED  
AEKLRSVVMPEKEIAALKDKL TEADKIKELEASKVKELNHYLEAEKSCRTDLEMVAV  
LNTQKSVLQEDAELRKELHEVCHLLEQERQQHNQLKHTWQKANDQFLESQRLLMRDMQR  
MEIVLTSEQLRQVEELKKKDQEDDEQQLNKRKDHKKADVEEEIKIPVVCALTQEESSAQ  
LSNEEHL DSTRGVHSLDAGLLLPSPGDPFSKSDNDMFKDGLRRAQSTD SLGTSGSLQSK  
ALGNYKAKSAGNLDESDFGLVGADSVSENFDTASLGSQMPSGFMLTKDQERAIAKMT  
PEQEETASLLSSVTQGMESAYVSPSGYRLVSETEWNLLQKEVHNAGNKLGRRCMCSNYE  
KQLGQIQIEAETRDQVKKLQLMLRQANDQLEKTMKDKQELED FIKQSSSEDSSHQISALV  
LRAQASEILLEELQQGLSQAKRDVQEQMAVLMQSREQVSEELVRLQKDNDSLQGHSLHV  
SLQQAEDFILPDTTEALRELVLKYREDI INVRTAADHVEEKLKAEILFLKEQIQAEQCLK  
ENLEETLQLEIENCKEEIASISSLKAELERIKVEKGQLESTLREKSQQLESLEIKISLE  
EQLKKETAATVEQLMFEEKNAQRLQTELDVSEVQRDFVKLSQTLQVQLERIRQADS  
LERIRAILNDTKLTDINQLPET

>sp|P15153|RAC2\_HUMAN Ras-related C3 botulinum toxin substrate 2 OS=Homo sapiens GN=RAC2  
PE=1 SV=1

MQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDSKPVNLGLWDTAG  
QEDYDRLRPLSYPQTDVFLICFSLVSPASYENVRAKWFPEVRHHCPSTPIILVGTKDLR  
DDKDTIEKLKEKKLAPITYPQGLALAKEIDSVKYLECSALTQRGLKTVFDEAIRAVLCPQ

PTRQQKRACSL

>sp|P43351|RAD52\_HUMAN DNA repair protein RAD52 homolog OS=Homo sapiens GN=RAD52 PE=1 SV=1

MSGTEEAILGGRDHPAAGGGSVLCFGQCQYTAEYQAIQKALRQLGPEYISSRMAGGG  
QKVCYIEGHRVINLANEMFGYNGWAHSITQQNVDFVDLNNGKFYVGCAFVRVQLKDGSY  
HEDVGYGVSGLKSKALSLEKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPR  
QLPLEVDLTAKRQDLEPSVEEARYNSCRPNMALGHPQLQQVTSPSRPSHAVIPADQDCS  
SRSLSSSAVESEATHQRKLRLQQLQQQFRERMEKQQVRVSTPSAEKSEAAPPAPPVTHST  
PVTVSEPLLEKDFLAGVTQELIKTLEDNSEKWAVTPDAGDGVVKPSSRADPAQTSIDLAL  
NNQMVTQNRTPHSVCHQKPKAQSGSWDLQTYSDQRTTGNWESHRSQDMKKRKYDPS

>sp|P50749|RASF2\_HUMAN Ras association domain-containing protein 2 OS=Homo sapiens GN=RASSF2 PE=1 SV=1

MDYSHQTSLVPCGQDKYISKNEILLHLKTYNLYYEGQNLQRHREEEDEFIVEGLLNISW  
GLRRPIRLQMDDNERIRPPSSSSWHSGCNLGAQGTTKPLTPVKVQISEVDAPPEGDQ  
MPSSTDSRGLKPLQEDTPQLMRTRSDVGVRRRGNVRTSPDQRRIRRRHRSINGHFYNHKT  
SVFTPAYGSVTNVRINSTMTTPQVLKLLNKFKIENSAEEFALYVVHTSGEKQKLKATDY  
PLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSFQKLQEEEDREVKK  
LMRKYTVLRMLIRQRLEEIAETPATI

>sp|P01111|RASN\_HUMAN GTPase NRas OS=Homo sapiens GN=NRAS PE=1 SV=1

MTEYKLVVVGAGVGKSALTIQLIQNHVDEYDPTIEDSYRKQVVIDGETCLLDILDTAG  
QEEYSAMRDQYMRTGEGFLCVFAINNSKSFADINLYREQIKRVKSDDDVPMVLVGNKCDL  
PTRVDTKQAHELAKSYGIPFIETSAKTRQGVDAFYTLVREIRQYRMKKLNSSDDGTQG  
CMGLPCVVM

>sp|Q9HCJ3|RAVR2\_HUMAN Ribonucleoprotein PTB-binding 2 OS=Homo sapiens GN=RAVER2 PE=1 SV=2

MAAAGDGGGEGGAGLGSAGLGPGPLRGQGPSAEAEHAGAPDPMPAALHPEEVAARLQR  
MQRELSNRRKILVKNLPQDSNCQEVHDLKDYDLKYCYVDRNKRTAFVTLLNGEQAQNAI  
QMFHQYSFRGKDLIVQLQPTDALLCITNPISFTSEEFEEELVRAYGNIERCFLVYSEVTG  
HSKGYGFVEYMKKDFAAKARLELLGRQLGASALFAQWMDVNLLASELIHSKCLCIDKLPS  
DYRDSEELLQIFSSVHKPVFCQLAQDEGSYVGGFAVVEYSTAEQAEEVQQAADGMTIKGS  
KVQVSFCAPGAPGRSTLAALIAAQVMHSNQKGLLPEPNPVQIMKSLNPNAMLQVLLQPQ  
LCGRAVKPAVLGTPHSLPHLMNPISPAFLHLNKAHQSSVMGNTSNLFLQNLSHIPLAQQ  
QLMKFENIHTNNKPGLLGEPPAVVLQ TALGIGSVLPLKKELGHHHGEAHTSSLIPTQTT  
ITAGMGMLPFFPNQHIAGQAGPGHSNTQEKQPATVGMAGNFSGSQPYLQSFPNLAAGSL  
LVGHHKQQSQPKGTEISSGAASKNQTSLLGEPPKEIRLSKNPYLNASVLPVCLSSPA  
SKTTLHKTGIASSILDAISQGESQHALEKCIAYSPPFGDYAQVSSLRNEKRGSSYLISA  
PEGGSVECVDAQSQGTGAYYMETYLKKKRVY

>sp|Q16576|RBBP7\_HUMAN Histone-binding protein RBBP7 OS=Homo sapiens GN=RBBP7 PE=1 SV=1

MASKEMFEDTVEERVINEEYKIWKNTPFYDLVMTALQWPSLTVQWLPEVTKPEGKDY  
ALHWLVLTGHTSDEQNLVVARVHIPNDDAQFDASHCSDKGEFGGFGSVTGKIECEIKI  
NHEGEVNRARYMPQNPHIIATKTPSSDVLVFDYTKHPAKPDPSGECNPDLRLRGHQKEGY  
GLSWNSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSVAVEDVAWHLLHES  
LFGSVADDQKLMIWDRSNTTSKPSHLVDAHTAEVNCLSFNPYSEFILATGSADKTVALW  
DLRNLKLLHTFESHKDEIFQVHWSPHNETILASSGTDRLRLNVWDLISKIGEEQSAEDAED

GPPELLFIHGHTAKISDFSWNPNPWWICSVSEDNIMQIWQMAENIYNDEESDVTSEL  
EGQGS

>sp|Q00577|PURA\_HUMAN Transcriptional activator protein Pur-alpha OS=Homo sapiens GN=PURA  
PE=1 SV=2

MADRDSGSEQGGAALGSGGSLGHPGSGSGSGGGGGGGGGGGSGGGGGGAPGGLQHETQE  
LASKRVDIQNKRFYLDVKQNAKGRFLKIAEVGAGGNKSRLTLSMSVAVEFRDYLGDFFIEH  
YAQLGPSQPPDLAQADEPRRALKSEFLVRENKYYMDLKENQRGRFLRIRQTVNRGPGL  
GSTQGQTIALPAQGLIEFRDALAKLIDDYGVEEPAELPEGTSLTVDNKRFFFDVGSNKY  
GVFMRVSEVKPTYRNSITVPYKVKWAKFGHTFCKYSEEMKKIQEKQREKRAACEQLHQQQQ  
QQQEETAAATLLQGEEEGEED

>sp|Q96PZ0|PUS7\_HUMAN Pseudouridylate synthase 7 homolog OS=Homo sapiens GN=PUS7 PE=1  
SV=2

MEMTEMGVSLKRGALVVEDNDSGVPVEETKKQKLSECSLTKGQDGLQNDFLSISEDVPR  
PPDTVSTGKGGKNSAELEDEEEEEEDGLSECEEEEESESFADMMKHGLTEADVGITKVV  
SSHQGFSGILKERYSDFFVHEIGKDGRISHLNDLSIPVDEEDPSEDIFTVLTAEEKQRLE  
ELQLFKNKETSVAIEVIEDTKEKRTIIHQAIKSLFPGLETCTEDREGKKYIVAYHAAGKK  
ALANPRKHSWPKSRGSYCHFVLYKENKDTMDAINVLSKYLRVKPNIFSVMGTCDKRAITV  
QEIAVLKITAQRLAHLNKLNMFKLGNFSYQKNPLKLGLQGNHFTVVLNITGTDDQVQ  
QAMNSLKEIGFINYYGMQRFGTAVPTYQVGRAILQNSWTEVMDLILKPRSGAEKGYLVK  
CREEWAKTKDPTAALRKLPVKRCVEGQLLRGLSKYGMKNIVSAFGIIPRNNRLMYIHSYQ  
SYVWNNMVSRIEDYGLKPVPGDLVLKGATATYIEEDDVNNYSIHDVVMPLPGFDVIYPK  
HKIQEAYREMLTADNLDIDNMRHKIRDYSLSGAYRKIIIRPNVSWEVVAYDDPKIPLFN  
TDVDNLEGKTPPVFASEGKYRALKMDFSLPPSTYATMAIREVLKMDTSIKNQTQLNTTWL  
R

>sp|Q8N0Z8|PUSL1\_HUMAN tRNA pseudouridine synthase-like 1 OS=Homo sapiens GN=PUSL1 PE=1  
SV=1

MSSAPASGSVRARYLVYFQYVGTDFNGVAAVRGTQRAVGQNYLEEEAERLNSVEPVRF  
TISRDTAGVHALSNAHLVDVRRSGRPPFPPEVLAEALNTHLRHPAIRVLAFRVPSDFH  
ARHAATSRTYLYRLATGCHRRDELPVFERNLCTWLPADCLDMVAMQEAQHLLGTHDFS  
A FQSAGSPVPSPVRTLRRVSVSPGQASPLVTPEESRKLRFWNLEFESQSFLYRQVRRMTAV  
LVAVGLGALAPQVKTILESQDPLGKHQTRVAPAHGLFLKSVLYGNLGAASCTLQGPQFG  
SHG

>sp|Q6DKI7|PVRIG\_HUMAN Transmembrane protein PVRIG OS=Homo sapiens GN=PVRIG PE=1 SV=1

MRTEAQVPALQPPEGLGAMGHRTLVLPWLLTLCVTAGTPEVWVQVRMEATELSSFTI  
RCGFLGSGSISLVTVSWGGPNGAGGTTLAVLHPERGIRQWAPARQARWETQSSISLILEG  
SGASSPCANTTFCKFASFPEGSWEACGSLPPSSDPGLSAPPTPAPILRADLAGILGVSG  
VLLFGCVYLLHLLRRHKHRPAPRLQPSRTSPQAPRARAWAPSQASQAALHVPYATINTSC  
RPATLDTAHPHGGPSWWASLPTHAAHRPQGPAAWASTPIPARGSFVSVENGLYAQAGERP  
PHTGPGLTLFPDPRGPRAMEGPLGVR

>sp|A1KZ92|PXDNL\_HUMAN Peroxidasin-like protein OS=Homo sapiens GN=PXDNL PE=1 SV=3

MEPRLFCWTTFLLAGWCLPGLPCPSRCLCFKSTVRCMHLMLDHIPQVPQQTTVLDRFN  
RIREIPGSFAFKKLNLNTLLNNHIRKISRNAFEGLENLLYLYKNEIHALDKQTFKG  
LISLEHLYIHFNQLEMLQPETFGDLLRLERLFLHNNKLSKIPAGSFSNLDLRLRLDSN  
ALVCDLMLWLGELLQGFAHQHGTQAAATCEYPRRLHGRAVASVTVEEFNCQSPRITFEP

QDVEVPSGNTVYFTCRAEGNPKPEIIWIHNNHSLDLEDDTRLNVFDDGTL MIRNTRES DQ  
GVYQCMARNSAGEAKTQSAMLRYS SLPKPSFVIQPDTEVLIGTSTTLECMATGHPHPL  
ITWTRDNGL EL DGS RHVATSSGLYLQ NITQRDHGRFTCHANN SHGTVQAAA NIIVQAPPQ  
FTVTPKDQV VLEE HAV EWLCEADGNPPPIVWTKTGGQLPVEGQHTV LSSGTLRIDRAAQ  
HDQGGYECQAVSS LGVKKVSVQLTVKPKALAVFTQLPQDTSVEVGKNINISCHAQGE PQP  
IITWNKEGVQITESGKFHV DDEGTLTIYDAGFPDQGRYECVARN SFGLAVTNMFLTVTAI  
QGRQAGDDFVESS ILDAVQRVDSAINSTRRLHFSQKPHTSSDLLAQFHYP RDPLIVEMAR  
AGEIFEHTLQLIRERV KQGLTV DLEGKEFRYNDLVSPRSLSLIANLSGCTARRPLPNC SN  
RCFHAKYRAHDGTCNNLQQPTWGAALTAFARLLQPAYRDGIRAPRGLGLPVGSRQPLPPP  
RLVATVWARAAVTPDHSYTRMLMHWGWFLEHDL DHTVPALSTARFSDGRPCSSVCTNDP  
PCFPMNTRHADPRGTHAPCMLFARSSPACASGRPSATVDSVYAREQINQQTAYIDGSNVY  
GSSERESQALRDP SVPRGLLKTGFPWP PPSGKPLL PFSTGPPTECARQE QESPCFLAGDHR  
ANEHLALAAMHTLWFREHNRMATELSALNPHWEGNTVYQEARKIVGAELQHITYSHWLPK  
VLGDPGTRMLRGYRGYNPNVNAGIINSFATAAFRFGHTLINPILYRLNATLGEISEGHLP  
FHKALFSPSRIIKEGGIDPVL RGLFGVAAKWRAPSYLLSPELTQRLFSAAYSAAVDSAAT  
IIQRGRDHGIPPYVDFRVFCNLTSVKNFEDLQNEIKDSEIRQKL RKLYGSPGDIDLWPAL  
MVEDLIPGTRVGTLMCLFVTQFQRLRDGDRFWYENPGVFTPAQLTQLKQASLSRVLCDN  
GDSIQVQADVFVKA EYPQDYLNCSEIPKVDLRVWQDCCADCRSRGQFRAVTQESQKKRS  
AQSYSPVDKDMELSHLRSRQQDKIYVGEDARNVTVLAKTKFSQDFSTFAAEIQETITALR  
EQINKLEARLRQAGCTDVRGVPRKAEERWMKEDCTHCICESGQVTCVVEICPPAPCPSPE  
LVKGTCCPVC RDRGMPSDSPEKR

>sp|Q9NR77|PXMP2\_HUMAN Peroxisomal membrane protein 2 OS=Homo sapiens GN=PXMP2 PE=1 SV=3  
MAPAASRLRAEAGL GALPRRALAQYLLFLRLYPVLTKAATSGILSALGNFLAQMI EKKRK  
KENSRLDVGGLPRYAVYGFFFTGPLSHFFYFFMEHWIPPEVPLAGLRRLLLDRLVFAPA  
FLMLFFLIMNFLE GKDASAFAAKMRGGFWPALRMNWRVWTPLQFININYVPLKFRVLFAN  
LAALFWYAYLASLGK

>sp|Q9Y6I8|PXMP4\_HUMAN Peroxisomal membrane protein 4 OS=Homo sapiens GN=PXMP4 PE=1 SV=3  
MAAPPQLRALLVVNALLRKRRYHAALAVLKGFRNGAVYGAKIRAPHALVMTFLFRNGSL  
QEKLWAILQATYIHSWNLARFVFTYKGLRALQSYIQGKTYPAHAFLAFLGGILVFGENN  
NINSQINMYLLSRVLFALSRLAVEKGYIPEPRWDPFPLLTAVVWGLVLWLF EYHRSTLQP  
SLQSSMTYLYEDSNVWHDISDFLVYNKSRPSN

>sp|Q8WU10|PYRD1\_HUMAN Pyridine nucleotide-disulfide oxidoreductase domain-containing  
protein 1 OS=Homo sapiens GN=PYROXD1 PE=1 SV=1  
MEAAPPPPTAGKFVVVGGGIAGVTCAEQLATHFPSEDILLVTASPVIAV TNFKQISKIL  
EEFDVEEQSSTMLGKRFPNIKVIESGVKQLKSEEHCIVTEDGNQH VYKKLCLCAGAKPKL  
ICEGNPYVLGIRD TDSAQEFQKQLTKAKRIMIIGNGGIAELVYEIEGCEVIWAIKD KAI  
GNTFFDAGAAEFLTSKLIAEKSEAKIAHKRTRYTTEGRKKEARSKSKADNVGSALGPDWH  
EGLNLKGTKEF SHKIHLETMC EVKKIYLQDEF RILKKSF TFP RDHKSVTADTEMWPVYV  
ELTNEKIYGCD FIVSATGVTNPVEPFLHGNSFDLGEDGGLKVDDHMTSLPDIYAAGDIC  
TTSWQLSPVWQQMRLWTQARQMGWYAAKCM AAASSGDSIDMDFS FELFAHVTKFFNYKV V  
LLGKYNAQGLGSDHELM LRCTKGREYIKVVMQNGRMMGAVLIGETDLEETFENLILNQMN  
LSSYGEDLLDPNIDIEDYFD

>sp|POC881|R10B1\_HUMAN Radial spoke head 10 homolog B OS=Homo sapiens GN=RSPH10B PE=2  
SV=1

MVKEKKKADKKGEKSARSPSSLSDNLDFSKQDGNTTRQEMSPAGVPLLGMQLNEVKPKKD  
RQNVQQNEDATQYEESILTKLIVESYEGEKVRGLYELEGFAAFQGGCTYRGMFSEGLMHG  
QGTYYIADGLKYEGDFVKNVPMNHGVYTWPDGSMYEGEVVNGMRNGFGMFKCSTQPVSYI  
GHWCNKGRHKGSIYYNQEGTCWYEGDWVQNIKKGWGIRCYKSGNIYEGQWEDNMRHGEG  
RMRWLTNEEYTGWERGIQNGFGTHTWFLKRIRSSQYPLRNEYIGEFVNGYRHGRGKFY  
YASGAMYDGEWVSNNKKHGMGRITFKNGRVYEGAFSNDHIAGFPDLEVEFISCLDLSSGVA  
PRLSRSAELIRKLDGSESHSVLGSSIELDLNLLDMYPETVQPEKKQVEYAVLRNITEL  
RRIYSFYSSLGCGHSLDNTFLMTKLHFWFLKDCKFHHHKLTLADMDRILSANNDIPVEE  
IHSPFTTILLRTFLNYLLHLAYHIYHEEFQKRSPSLFLCFTKLMTENIRPNAFQIKGNLF  
REQQRTLYSMSYMNKCWEIYLAYCRPSAAPPHEPTMKMRHFLWMLKDFKMINKELTAATF  
MEVIAEDNRFIYDGIDSNFEPELVFLEFFEALLSFAFICVTDQMTKSYTNVPADDVSGNK  
HETIYITILNQDAQNKSPSAVMSHESDAAHSDSARSSSSKLELSPDVNKKIRKSEPKIKKSV  
SHERVSKMNFKLTGKGITTFSSSESKKYERPKDDREEEFNTWVNNMYVFFVNTLFHAYKRE  
EAIKEKIRADRLRSTAQAQQRKMEDELEARLNIFILREEAKRHDYEVDITVLKEPADV  
SSSHLILDPPKEDVTVPSSKTITSSKKKKK

>sp|B2RC85|R10B2\_HUMAN Radial spoke head 10 homolog B2 OS=Homo sapiens GN=RSPH10B2 PE=2  
SV=2

MVKEKKKADKKGEKSARSPSSLSDNLDFSKQDGNTTRQEMSPAGVPLLGMQLNEVKPKKD  
RQNVQQNEDASQYEESILTKLIVESYEGEKVRGLYELEGFAAFQGGCTYRGMFSEGLMHG  
QGTYYIADGLKYEGDFVKNVPMNHGVYTWPDGSMYEGEVVNGMRNGFGMFKCSTQPVSYI  
GHWCNKGRHKGSIYYNQEGTCWYEGDWVQNIKKGWGIRCYKSGNIYEGQWEDNMRHGEG  
RMRWLTNEEYTGWERGIQNGFGTHTWFLKRIRSSQYPLRNEYIGEFVNGYRHGRGKFY  
YASGAMYDGEWVSNNKKHGMGRITFKNGRVYEGAFSNDHIAGFPDLEVEFISCLDLSSGVA  
PRLSRSAELIRKLDGSESHSVLGSSIELDLNLLDMYPETVQPEKKQVEYAVLRNITEL  
RRIYSFYSSLGCGHSLDNTFLMTKLHFWFLKDCKFHHHKLTLADMDRILSANNDIPVEE  
IHSPFTTILLRTFLNYLLHLAYHIYHEEFQKRSPSLFLCFTKLMTENIRPNACQIKGNLF  
REQQRTLYSMSYMNKCWEIYLAYCRPSAAPPHEPTMKMRHFLWMLKDFKMINKELTAATF  
MEVIAEDNRFIYDGIDSNFEPELVFLEFFEALLSFAFICVTDQMTKSYTNVPADDVSGNK  
HETIYITILNQDAQNKSPSAVMSHESDAAHSDSARSSSSKLELSPDVNKKIRKSEPKIKKSV  
SHERVSKMNFKLTGKGITTFSSSESKKYERPKDDREEEFNTWVNNTYVFFVNTLFHAYKRE  
EAIKEKIRADRLRSTAQAQQRKMEDELEARLNIFILREEAKRHDYEVDITVLKEPADV  
SSSHLILDPPKEDVTVPSSKTITSSKKKKK

>sp|Q8IZP6|R113B\_HUMAN RING finger protein 113B OS=Homo sapiens GN=RNF113B PE=1 SV=3

MAAPSPGRTADQADQVCTFLFKKPGRKGAAGLRKRPACDPEHGESSSSGDEGDTVAQPP  
RVAPRPRGLHSWQKAAHGDRRGEEAAPESLDVVYRSTRSAKPVGPEDMGATADFEQDTEK  
EHHTPTILKCSQVQEALRGREHDHIYRGIHSYLRYLKPKDTSMGNSSSGMARKGPIRAP  
GHLRATVRWDYQPDICKDYKETGFCGFGDSCKFLHDRSDYKLGWEIERELEEGRYCICED  
ENHEVGSEEEEIPFRFCICRQAFQNPVVTCKRHYFCESCALEHFRATPRCYICDQPTGGI  
FNPAKELMAKLQKLQAAEGKKR

>sp|Q6NVV1|R13P3\_HUMAN Putative 60S ribosomal protein L13a protein RPL13AP3 OS=Homo  
sapiens GN=RPL13AP3 PE=5 SV=1

MLRHKTKRGHASLCLKVFDGIPPPYDKKKRMVPAALKVVRLKPTRKFALLGRQAQEV  
WKYQAVTATLEEKRKEKAKIHYWKKKQLMRLRKQAEKNVKKK

>sp|Q7Z419|R144B\_HUMAN E3 ubiquitin-protein ligase RNF144B OS=Homo sapiens GN=RNF144B  
PE=1 SV=1

MGSAGRLHYLMTAENPTPGDLAPAPLITCKLCLCEQSLDKMTTLQECQCIFCTACKQY  
MQLAIREGCGSPITPCDMVCLNHGTLQAEIACLVPVDQFQLYQRLKFEREVHLDPYRTW  
CPVADCQTVCPVASSDPGQPVLVECPSCHLKFCSCKDAWHAEVSCRDSQPIVLPTEHRA  
LFGTDAEAPIKQCPVCRVYIERNEGCAQMMCKNCKHTFCWYCLQNLNDIFLRHYDKGPC  
RNKLGHSRASVMWNRTQVVGILVGLGIIALVTSPLLLASPCIICCVCKSCRGKKKKHDP  
STT

>sp|Q9Y3T6|R3HC1\_HUMAN R3H and coiled-coil domain-containing protein 1 OS=Homo sapiens  
GN=R3HCC1 PE=1 SV=3

MALLCLDGVLSSAENDFVHRIQEELDRFLLQKQLSKVLLFPPLSSRLRYLIHRTAENFD  
LLSSFSVGEGWKRRTVICHQDIRVPSSDGLSGPCRAPASCPSRYHGPRPISNQAAAVPR  
GARAGRWYRGRKPDQPLYVPRVLRQEEWGLTSTSVLKREAPAGRDPEEPGDVGAGDPNS  
DQGLPVLMTQGTEDLKGPGQRCENEPLLDPVGPEPLGPESQSGKDMVEMATRFGSTLQL  
DLEKGKESLLEKRLVAEEEEDEEEVEEDGPSSCEDDYSELLQEITDNLTKKEIQIEKIH  
LDTSSFVEELPGEKDLAHVVEIYDFEPALKTEDLLATFSEFQEKGFRIQWVDDTHALGIF  
PCLASAAEALTREFSVLKIRPLTQGTKQSKLKALQRPKLLRLVKERPQTNAVARRLVAR  
ALGLQHKKKERPAVRGPLPP

>sp|Q15032|R3HD1\_HUMAN R3H domain-containing protein 1 OS=Homo sapiens GN=R3HDM1 PE=1  
SV=3

MRMSDTVTVKDETATMKDLEAEVKDTTRVENLIKSENYGKILVEKNEHCIENNIDLQRPL  
QSFGQTGKRSSSKLKLVRSLAVCEESPPPPAPEISQENQEKIQIQLTQSFEKEEKPSK  
DEAEKEKASDKLPRKMLSRDSSQEYTDSTGIDLHEFLVNTLKNNPRDRMMLLKLEQEILD  
FIGNNEsprkKFPMTSYHRMLLHRVAAYFGLDHNVDQSGKSVIVNKTsnTRIPDQKFNE  
HIKDDKGEDFKRYILKRDNSSFDKDDNQMRIRLKDDRRSKSIEEEEEYQRARDRIFSQ  
DSLCSQENYIIDKRLQDEDASSTQRRQIFRVNKDASGRSTNSHQSSTENELKYSEPRPW  
SSTDSDSSLRNLKPAVTKASSFSGISVLTRGDSSGSSKSGRLSKTGSSESSGVSSTGS  
LSHIQQLPLGTALSQSSHGAPVYPTVSTHSSLSDGGLNGQVASTSFFLLPLEAAGI  
PPGSILINPQTGQPFINPDGSPVYVNPMTQQPVRSQVPGPPQPPLPAPPQQAANHIFS  
QDNLGSQFSHMSLARQPSADGSDPHAAMFQSTVVLQSPQQSGYIMTAAPPPHPPPPPPP  
PPPPPLPPGQPVPTAGYPASGHVPSQPVLLQQQGYIQQPSPQMPACYCAPGHYHSSQPQYR  
PVPSVHYNSHLNQLPLQPAQQTGYQVIPNQQQNYQGIVGVQQPSQSLVSGQPNSIGNQI  
QGVVIPYTSVPTYQVSLPQGSQGIPHQTYQQPVMFPNQSNQGSMPPTGMPVYYSVIPPGQ  
QNNLSSSVGYLQHPGSEQVQFPRTTSPCSSQQLQGHQCTAGPPPPPGGGMVMMQLSVPNN  
PQSCAHSPPQWKQNKYYCDHQRGQKCVFSSVDNIVQHSPQLSSPIISPAQSPAPAQLST  
LKTVRPSGPPLSIMPQFSRPFVPGQDSRYPLLGGPLQYNPPAVLHGHIQNPQQGPGSRH  
GNRGRRAKKAASDLAGETVVGKVLITELPDGITRMEAEKLFGELFKIGAKIRWLRD  
PQSQPRRHPLCCGSGDNTANPERSKPSDLASTYTVLATFPSISAAQNALKKQINSVNKFK  
LRTSKKHDFHILERASSQ

>sp|Q6ZS82|R9BP\_HUMAN Regulator of G-protein signaling 9-binding protein OS=Homo sapiens  
GN=RGS9BP PE=2 SV=1

MAREECKALLDGLNKTACYYHHLVLTVGGSADSQNLRLQELQKTRQKAQELAVSTCARLTA  
VLRDRGLAADERAERFERLWVAFSGCLDLLEADMRRALELGAAFPPLHAPRRPLVRTGVAGA  
SSGVAARALSTRSLRLEAGDFDVADLRELEREVLQVGEMIDNMEMKVNVPRTVQARQA

AGAELLSTVSAGPSSVSLQERGGGCDPRKALAAILFGAVLLAAVALAVCVAKLS

>sp|P51153|RAB13\_HUMAN Ras-related protein Rab-13 OS=Homo sapiens GN=RAB13 PE=1 SV=1

MAKAYDHLFKLLIGDSGVGKTCIIIRFAEDNFNNTYISTIGIDFKIRTVDIEGKKIKLQ  
VWDTAGQERFKTITTAYYRGAMGIIILVYDITDEKSFENIQNMKSIKENASAGVERLLLG  
NKCDMEAKRKVQKEQADKLAREHGIRFFETSAKSSMNVDFAFSSLARDILLKSGGRRSGN  
GNKPPSTDCLKTCDKKNTNKCSLG

>sp|P61019|RAB2A\_HUMAN Ras-related protein Rab-2A OS=Homo sapiens GN=RAB2A PE=1 SV=1

MAYAYLFKYIIIGDTGVGKSCLLQFTDKRFQPVHDLTIGVEFGARMITIDGKQIKLQIW  
DTAGQESFRSITRSYYGAAGALLVYDITRRDTFNHLTTWLEDARQHSNSNMVIMLIGNK  
SDLESRREVKKEEGEAFAREHGLIFMETSAKTASNVEEAFINTAKEIYEKIQEGVFDINN  
EANGIKIGPQHAATNATHAGNQQGQAGGGCC

>sp|Q7Z7A4|PKX\_HUMAN PX domain-containing protein kinase-like protein OS=Homo sapiens  
GN=PKX PE=1 SV=1

MAFMEKPPAGKVLLDDTVPLTAAIEASQSLQSHTEYIIIRVQRGISVENSWQIVRRYSDFD  
LLNNSLQIAGLSLPLPPKKLIGNMDREFIAERQKGLQNYLNVITTNHILSNCELVKKFLD  
PNNYSANYTEIALQQVSMFFRSEPKWEVVEPLKDIGWRIRKKYFLMKIKNQPKERLVLSW  
ADLGPDKYLSDKDFCLIKLLPSCLPYIYRVTFATANESSALLIRMFNEKGTLKDLIYK  
AKPKDPFLKKYCNPKKIQGLELQKIKTYGRQILEVLKFLHDKGFPYGHLLHASNVMLDGD  
CRLDLENSLLGLPSFYRSYFSQFRKINTLESVDVHCFGHLLYEMTYGRPPDSVPVDSFP  
PAPSMVAVVLESTLSCEACKNGMPTISRLLQMPLFSDVLLTTSEKPPFKIPTKLKEALR  
IAKECIEKRLIEEQKQIHQHRRLTRAQSHHGSEEERKKRILARKKSKRSALENSEEHSA  
KYSNSNNSAGSGASSPLTSPSSPTPPSTSGISALPPPPPPPPPAAPLPASTEAPAQLS  
SQAVNGMSRGALLSSIQNFQKGTLRKAKTCDHSAPKIG

>sp|Q9UPQ7|PZR3\_HUMAN E3 ubiquitin-protein ligase PDZR3 OS=Homo sapiens GN=PDZR3 PE=1  
SV=2

MGFELDRFDGVDPLDKALCHKVLEDPLTPCGHVFCAGCVLPWVQEGSCPARCRGRL  
SAKELNHVLPKRLILKLDIKCAYATRGCGRVVKLQQLPEHLERCDFAPARCRHAGCGQV  
LLRRDVEAHMRDADARPVGRCQEGCGLPLTHGEQRAGGHCCARALRAHNGALQARLGAL  
HKALKKEALRAGKREKSLVAQLAAQLELQMTALRYQKKFTEYSARLDSLSRCVAAPPGG  
KGEETKSLTLVLRHDSGSLGFNIIGGRPSVDNHDGSSSEGFVSKIVDSGPAAKEGGLQI  
HDRIIEVNGRDLSTRATHDQAVEAFKTAKEPIVVQVLRRTPRTKMFTPPSESQVDTGTQT  
DITFEHIMALKMSSPSPVLDPYLLPEEHPSAHEYDPNDYIGDIHQEMDREELEEEV  
DLYRMNSQDKLGLTVCYRTDDEDDIGIYISEIDPNSIAAKDGRIREGDRIIQINGIEVQN  
REEAVALLTSEENKNFSLIARPELQLDEGWMDDDRNDFLDDLHMDMLEEQHHQAMQFTA  
SVLQKKHDEDDGTTDTATILSNQHEKDSGVGRTESTRNDESSEQENNGDDATASNPL  
AGQRKLTCSDTLGSGDLFPSNESFISADCTDADYLGIPVDECERFRELLELKCQVKSAT  
PYGLYPSGPLDAGKSDPESVDKELELLNEELRSIELECLSVRAHKMQQLKEQYRESWM  
LHNSGFRNYNTSIDVRRHELSITELPEKSDKDSSAYNTGESCRSTPLTLEISPDNSLR  
RAAEGISCPSSSEGAVGTTEAYGPASKNLLSITEDPEVGTPTYSPSLKELDPNQPLESKER  
RASDGSRSPTPSQKLGSAYLPSYHHSYPKHAHIPAHAQHYQSYMQLIQKSAVEYAQSQM  
SLVSMCKDLSSPTPSEPRMEWKVIRSDGTRYITKRPVRDRLLRERALKIREERSGMTTD  
DDAVSEMKGMYWSKEERKQHLVKAKEQRRRREFMMQSRDLCKEQQAADDRKEMNILEL  
SHKKMMKKRNKKIFDNWMTIQELLTHGTSKPDGTRVYNSFLSVTTV

>sp|Q6ZMN7|PZRN4\_HUMAN PDZ domain-containing RING finger protein 4 OS=Homo sapiens  
GN=PDZRN4 PE=2 SV=3

MGFALERFAEAVDPALECKLGGVLEELCTPCGHVFCASCLLPWAVRRRCPLQCQPLA  
PGELYRVLPLRSLIQKLRVQCDYRARGCGHSVRLHELEAHVEHCDFGPARRLRSGGCAS  
GLGGGEVPARGGCGPTPRAGRGGGARGGPPGGRWGRGRGPGRVLAWRRREKALLAQLWA  
LQGEVQLTARRYQEKFQYMAHVRNFVGDLLGGHRRDGEHKPFTIVLERENDTLGFNIIG  
GRPNQNNQEGTSTEGIYVSKILENGPADRADGLEIHDKIMEVNGKDSLKATHEEAVEAFR  
NAKEPIVVQVLRRTPLSRPAYGMASEVQLMNASTQTDITFEHIMALAKLRPPTPPVPDIC  
PFLSDSCHSLHPMEHEFYEDNEYISSLPADADRTEDFEYEEVELCRVSSQEKLGTLVCY  
RTDDEEDTGIYVSEVDPNSIAAKDGRIREGDRILQINGEDVQNREEAVALLSNDECKRIV  
LLVARPEIQLDEGWLEDERNEFLEELNLEMLEEEHNEAMQPTANEVEQPKKQEEEEGTTD  
TATSSSNHEKDSGVGRDTESLRNDESSEQENAAEDPNSTSLKSKRDLGQSQDTLGSVEL  
QYNESLVSGEYIDSDCIGNPDEDCERFRQLLELKCKIRNHGEYDLYSSSTIECNQGEQE  
GVEHELQLLNEELRNIELECQIMQAHRLQKVTDQYGDITLHDGGFRNYNTSIDMQRGK  
LDDIMEHPEKSDKSSAYNTAESCRSTPLTVDRSPDSSLPRVINLTNKKNLSTMAATQ  
SSSGQSSKESTSTKAKTTEQGCSAESKEKVLEGSKLDPQEKAVSEHIPYLSYPHSSSYRY  
ANIPAHARHYQSYMQLIQKSAVEYAQSQLSLVSMCKESQKCSEPKMEWKVIRSDGTRY  
ITKRPVRDRILKERALKIKEERSGMTTDDDTMSEMKGGRYWSKEERKQHLVRAKEQRRRR  
EFMMRSRLECLKESPQSGSEGKKEINIIELSHKKMMKKRNKKILDNWTIQELMTHGAKS  
PDGTRVHNAFLSVTTV

>sp|O14957|QCR10\_HUMAN Cytochrome b-c1 complex subunit 10 OS=Homo sapiens GN=UQCR11 PE=3  
SV=1

MVTRFLGPRYRELKNNVPTAYTWGAVGAVGLVWATDWRLILDWVPYINGKFKKDN

>sp|Q08257|QOR\_HUMAN Quinone oxidoreductase OS=Homo sapiens GN=CRYZ PE=1 SV=1

MATGQKLMRAVRVFEFGPEVLKLRSDIAVPIPKDHQVLKVVHACGVNPVETYIRSGTYS  
RKPLLPYTPGSDVAGVIEAVGDNASAFKKGDRVFTSSTISGGYAEYALAADHTVYKLEPK  
LDFKQGAAGIPYFTAYRALIHSACVKAGESVLVHGASGGVGLAACQIARAYGLKILGTA  
GTEEGQKIVLQNGAHEVFNRHREVNIDKIKKYVGEKGIDIIIEMLANVNLSKDLSSLSHG  
GRVIVVGSRGITIEINPRDTMAKESSIIGVTLSSTKEEFQYAAALQAGMEIGWLKPVIG  
SQYPLEKVAEAHENI IHGSGATGKMILL

>sp|Q2TAL8|QRIC1\_HUMAN Glutamine-rich protein 1 OS=Homo sapiens GN=QRICH1 PE=1 SV=1

MNNSLENTISFEEYIRVKARSVPQHRMKEFLDSLASKGPEALQEFQQTATTTMVYQQGGN  
CIYTDSTEVAGSLLELACPVTTSVQPQTQEQQIQVQQPQQVQVQVQQSPQQVSAQLS  
PQLTVHQTEQPIQVQVQIQGQAPQSAAPSIQTPSLQSPSPSQLAAQIQVQHVAQAQI  
QAAEIPEEHIPHQIQAQLVAGQSLAGGQIQIQTVGALSPPPSQQGSPREGERRVGTAS  
VLQPVKKRKVDMPITVSYAISGQPVATVLAIPQGGQQSYVSLRPDLLTVDSAHLYSATGT  
ITSPTGETWTIPVYSAQPRGDPQQQSITHIAIPQEAYNAVHVSGSPTALAAVKLEDDKEK  
MVGTTSVVKNSEEVVQTLANS LFPAQFMNGNIHIPVAVQAVAGTYQNTAQTVHIWDPQQ  
QPQQQTPQEQTPPPQQQQQLQVTCQAQTVQVAEVEPQSQPQPSPELLLPNSLKPEEGLE  
VWKNWAQTKNAELEKDAQNRLAPIGRRQLLRFQEDLISSAVAELNYGLCLMTREARNGEG  
EPYDPDVLYYIFLCIQKYL FENGRVDDIFSDLYYVRFTEWLHEVLKDVQPRVTPLGYVLP  
SHVTEEMLWECKQLGAHSPSTLLTLMFFNTKYFLLKTVDQHMKLAFSKVL RQTKKNPSN  
PKDKSTSIRYLKALGIHQTGQKVTD DMYAEQTENPENPLRCP IKLYDFYLFKCPQSVKGR  
NDTFYLTPEPVVAPNSPIWYSVQPI SREQMGQMLTRILVIREIQEAIIVANASTMH



>sp|000391|QSOX1\_HUMAN Sulfhydryl oxidase 1 OS=Homo sapiens GN=QSOX1 PE=1 SV=3

MRRCSGSGPPPSLLLLLWLLAVPGANAAPRSALYSPSDPLTLLQADTVRGAVLGSRSA  
WAVEFFASWCGHCIAFAPTWKALAEDVKAWRPALYLAALDCAEETNSAVCRDNIPGFPT  
VRFFKAFTKNGSGAVFPVAGADVQLRERLIDALESHHDTWPPACPPLEPAKLEEIDGFF  
ARNNEEYLALIFEKGGSYLGREVALDLSQHKGVAVRRVLNTEANVVRKFGVTDFFPSCYLL  
FRNGSVSRVPVLMESRSFYTAYLQRLSGLTREAAQTTVAPTANKIAPT VWKLADRSKIY  
MADLESALHYILRIEIVGRFPVLEGQRLVALKKFVAVLAKYFPGRPLVQNFLHSVNEWLKR  
QKRNKIPYSFFKTALDDRKEGAVLAKKVNWIGCQGSEPHFRGFPCSLWVLFHFLTVQAAR  
QNVDSQEAAKAKEVLPARGVYHYFFGCRDCASHFEQMAAASMRVGSFNAAVLWLWSS  
HNRVNARLAGAPSEDPQFPKVQWPPRELCSACHNERLDVPVWDVEATLNFLKAHFSPSNI  
ILDFAAGSAARRDVQNAAPELAMGALEESRNSTLDPGKPEMMKSPTNTTPHVPAG  
PEASRPPLHPLRAAPGQEPPEHMAELQRNEQEQLGQWHL SKRDTGAALLAESRAEKN  
RLWGPLEVRRVGRSSKQLVDIPEGQLEARAGRGRGQWLQVLGGGFSYLDISLCVGLYSLS  
FMGLLAMTYTFQAKIRALKGHAGHPAA

>sp|Q9H974|QTRT2\_HUMAN Queuine tRNA-ribosyltransferase accessory subunit 2 OS=Homo sapiens GN=QTRT2 PE=1 SV=1

MKLSLTKVNGCRLGKIKNLGKTGDHTMDIPGCLLYTKTGSAPHLTHHTLHNIHGV PAMA  
QLTLSSLAEHHEVLTEYKEGVGKFIGMPESLLYCSLHDPVSPCAGYVTNKS SVSVSVAG  
RVEMTVSKFMAIQKALQPDWFQCLSDGEVSCKEATSIKRVKSVDRSLLFLDNCLRLQEE  
SEVLQKSVIIGVIEGGDVMEERLRSARETAKRPVGGFLLDGFGQNP TTEARLRLSSVT  
AELPEDKPRLISGSRPDEVLECIERGVDLFESFFPYQVTERGCALTF SFDYQPNPEETL  
LQNGTQEEIKCMDQIKKIETTGCNQEITSFEINLKEKKYQEDFNPLVRGCSCYCKNHT  
RAYIHLLVTNELLAGVLLMMHNFHYFGFFHYIREALKSDKLAQLKELIHRQAS

>sp|Q05209|PTN12\_HUMAN Tyrosine-protein phosphatase non-receptor type 12 OS=Homo sapiens GN=PTPN12 PE=1 SV=3

MEQVEILRKFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVK  
KNRYKDILPFDHSRVKLTLPKTPSQSDYINANFIKGVYGP KAYVATQGPLANTVIDFWRM  
IWEYNVVIIVMACREFEMGRKKCERYWPLYGEDPITFAPFKISCEDEQARTDYFIR TLLL  
EFQNESRRLYQFHYVNWPDHDPSSSFD SILDMSLMRKYQEHEDVPICIHCSAGCGRTGA  
ICAIDYTWNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTKEQYELVHRAIAQLFEKQLQL  
YEIHGAQKIADGVNEINTENMVSSIEPEKQDSPPPKPPRTRSCLEVGDAKEEILQPPEPH  
PVPPILTPSPPSAFPTVTTVWQNDRYHPKPVLMVSSEQHSADLNRNYSKSTELPGKNE  
STIEQIDKKLERNLSFEIKKVPLQEGPKSFDGNTLLNRGHAIKISASPC IADKISKPQE  
LSSDLNVGDTSQNSCVDCSVTSQSNKVS VTPPEESQNSDTPPRPDRLPLDEKGHVTSF HG  
PENAIPIPDLSEGNSSDINYQTRKTVSLTPSPTTQVETPDLVDHDNTSPLFRTPLSFTNP  
LHSDSDSDERNSDGAVTQKN TNISTASATVSAATSTESISTRKVLPM SIARHNIAGTTH  
SGAEKDVDVSEDSPPPLPERTPESFVLASEHNTPVRSEWSELQSQERSEQKKSEGLITSE  
NEKCDHPAGGIHYEMCIECPPTFSDKREQISENPTEATDIGFGNRCGKPKGPRDPPSEWT

>sp|Q99952|PTN18\_HUMAN Tyrosine-protein phosphatase non-receptor type 18 OS=Homo sapiens GN=PTPN18 PE=1 SV=2

MSRSLDSARSFLERLEARGGREGAVLAGEFSDIQACSAAWKADGVCSTVAGSRPENVRKN  
RYKDVLPYDQTRVILSLLQEEGHSDYINGNFIRGVDGSLAYIATQG PLPHTLLDFWRLVW  
EFGVKVILMACREIENGRKRCERYWAQEQEPLQTGLFCITLIKEKWL NEDIMLRTLKVTF  
QKESRSVYQLQYMSWPDRGVPSSPDHMLAMVEEARRLQGS GPEPLCVHCSAGCGRTGVLC

TVDYVRQLLLTQMIPPDFSLFDVVLKMRKQRPAAVQTEEQYRFLYHTVAQMFCSLQNAS  
PHYQNIKENCAPLYDDALFLRTPQALLAIPRPPGGVLRISVPGSPGHAMADTYAVVQKR  
GAPAGAGSGTQTGTGTGTGARSAAEAPLYSKVTPRAQRPGAHAEDARGTLPGRVPADQSP  
AGSGAYEDVAGGAQTGGLGFNLRIGRPKGPRDPPAEWTRV

>sp|Q4JDL3|PTN20\_HUMAN Tyrosine-protein phosphatase non-receptor type 20 OS=Homo sapiens  
GN=PTPN20 PE=1 SV=1

MSSPRDFRAEPVNDYEGNDSEAEDLNFRETLPSSSQENTPRSKVFENKVNSEKVKLSLRN  
FPHNDYEDVFEESPESGSDPSMWRTARGPFRDRWSEDEEAAGPSQALSPLLSDTRKIVS  
EGELDQLAQIRPLIFNFHEQTAIKDCLKILEEKTAAYDIMQEFMALELKNLPGEFNSGNQ  
PSNREKNRYRDILPYDSTRVPLGKSKDYINASYIRIVNCGEEFYIATQGPLLSTIDDFW  
QMVLENNSNVIAMITREIEGGI IKCYHYWPI SLKKPLELKHFRVFLENYQILQYFIIRMF  
QVVEKSTGTSHSVKQLQFTKWPDHGTPASADSF IKYIRYARKSHLTGPMVVHCSAGIGRT  
GVFLCVDVVFCIAIVKNCFSNIMDIVAQMREQRSGMVQTKEQYHFCYDIVLEVLRKLLTLD

>sp|Q16825|PTN21\_HUMAN Tyrosine-protein phosphatase non-receptor type 21 OS=Homo sapiens  
GN=PTPN21 PE=1 SV=2

MPLPFGCLKKRRTRYTVSSKSLVARIQLLNNEFVEFTLSVESTGQESLEAVAQRLELRE  
VTYFSLWYYNKQNRWVDLEKPLKKQLDKYALEPTVYFGVVFYVPSVSQLQQEITRYQY  
YLQLKKDILEGSIPTCLEQAIQLAGLAVQADFGDFDQYESQDFLQKFALFPVGLQDEKV  
LEEATQKVALLHQYRGLTAPDAEMLYMQEVRMDGYGEESYPAKDSQGSDISIGACLEG  
IFVKHKNGRHPVVRWHDIANMSHNKSFFALELANKEETIQFQTEDMETAKYIWRLCVAR  
HKFYRLNQCNLQTQTVTNPIRRRSSRMSLPKPQPYVMPPPPQLHYNGHYTEPYASSQD  
NLFVFNQNGYYCHSQTSLDRAQIDLNGRIRNGSVYSAHSTNSLNNPQPYLQPSMSSNPS  
ITGSDVMRPDYLPSHRHSAVIPPSYRPTPDYETVMKQLNRGLVHAERQSHSLRNLNIGSS  
YAYSIPAALVYSQPEIREHAQLPSPAAAHCPFSLSYSFHSPSPYPYPAERRPVVGAVSVP  
ELTNAQLQAQDYSPNIMRTQVYRPPPPYPPRANSTPDLRHLIYSSSNPDLITRRVH  
HSVQTFQEDSLPVAHSLQEVSEPLTAARHAQLHKRNSIEVAGLSHGLEGLRLKERTLSAS  
AAEVAPRAVSVGSQPSVFTERTQREGPEEAEGRLYGHKKSLSDATMLIHSSEEEDEDFE  
EESGARAPPARAREPRGLAQDPPGCPRVLLAGPLHILEPKAHVPDAEKRMMDSSPVRTT  
AEAQRPWDGLLMPSMESDLTTSGRYRARRDSLKKRPVSDLLSGKKNIVEGLPPLGGMK  
KTRVDAKKIGPLKLAALNGLSLSRVPLPDEGKEVATRATNDERCKILEQRLEQGMVFTEY  
ERILKKRLVDGECSTARLPENAERNRFQDVL PYDDVRVELVPTKENNTGYINASHIKVSV  
SGIEWDYIATQGPLQNTCQDFWQMVWEQGIATIAMVTAEEEGGREKSFYRWPRLGSRHNT  
VTYGRFKITTRFRDTS GCYATTGLKMKHLLTGQERTVWHLQYTDWPEHGPCEDLKGFLSY  
LEEIQSVRRHTNSTSDPQSPNPPLLVHCSAGVGRTGVVILSEIMIACLEHNEVLDIPRVL  
DMLRQQRMMMLVQTLQYTFVYRVLIQFLKSSRLI

>sp|P17706|PTN2\_HUMAN Tyrosine-protein phosphatase non-receptor type 2 OS=Homo sapiens  
GN=PTPN2 PE=1 SV=2

MPTTIEREFEELDTQRRWQPLYLEIRNESHDYPHRVAKFPENRNRNRYRDVSPYDHSRVK  
LQNAENDYINASLV DIEAQRSYILTQGPLPNTCCHFWMVWQQKTKAVVMLNRIVEKES  
VKCAQYWPTDDQEMLFKETGFSVKLLSEDVKSYYTVHLLQLENINSGETRTISHFHYTTW  
PDFGVPESPASFLNFLFKVRESGSLNPDHGPAVIHCSAGIGRSGTFSLVDTCLVLEKGD  
DINIKQVLLNMRKYRMGLIQTPDQLRFSYMAIEGAKCIKGDSSIQRWKELSKEDLSPA  
FDHSPNKIMTEKYNGNRIGLEEEKLTGDRCTGLSSKMQDTMEENSESALRKRIREDRKAT  
TAQKVQMQKQRLNENERKRRWLYWQPILTKMGFMSVILVGAFVGWTLFFQQNAL

>sp|P54829|PTN5\_HUMAN Tyrosine-protein phosphatase non-receptor type 5 OS=Homo sapiens  
GN=PTPN5 PE=1 SV=4

MNYEGARSERENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLQDSQREMPPPP  
PPSPSPDPAQKPPPRGAGSHSLTVRSSLCLFAASQFLLACGVLWFSGYGHIWSQNATNLV  
SSLLTLLKQLEPTAWLDSGTWGVPSLLLVLFSVGLVLVTTLVVHLLRTPPEPPTPLPPED  
RRQSVSRQPSFTYSEWMEEKIEDDFLDLDPVPETPVFDCVMDIKPEADPTSLTVKSMGLQ  
ERRGSNVSLTDMCTPGCNEEGFGYLMSPREESAREYLLSASRVLQAEELHEKALDPFLL  
QAEFFEIPMNFVDPKEYDIPGLVRKNRYKTILPNPHSRVCLTSPDPDDPLSSYINANYIR  
GYGEEKVYIATQGPIVSTVADFWRMVWQEHTPIIVMITNIEEMNEKCTEYWPEEQVAYD  
GVEITVQKVIHTEDYRLRLISLKSGETEERGLKHYWFTSWPDQKTPDRAPPLHLVREVEE  
AAQQEGPHCAPIIVHCSAGIGRTGCFIATSIACCQQLRQEGVVDILKTTCCQLRQDRGGMIQ  
TCEQYQFVHHVMSLYEKQLSHQSPE

>sp|P48651|PTSS1\_HUMAN Phosphatidylserine synthase 1 OS=Homo sapiens GN=PTDSS1 PE=1 SV=1

MASCVGSRTLSKDDVNYKMHRMINEQQVEDITIDFFYRPHTITLLSFTIVSLMYFAFTR  
DDSPEDNIWRGILSVIFFFLIISVLAFPNPFPTRPHPALWRMVGLSVLYFLFLVFLLF  
LNFEQVKSLMYWLDPNLRYATREADVMEYAVNCHVITWERIISHFDIFAFGHFWGWAMKA  
LLIRSYGLCWTISITWELTEFFMHLLPNFAECWWDQVILDILLCNGGGIWLGMVVCRL  
EMRTYHWASFKDIHTTTGKIKRAVLQFTPASWTYVRWFDPKSSFQRVAGVYLFMIIWQLT  
ELNTFFLKHFVFAQSHPLSWGRILFIGGITAPTQRQYYAYLTDTCCKRVGTQCWVFGVI  
GFLEAIVCIKFGQDLFSKTQILYVVLWLLCVAFTTFLCLYGMIIWYAEHYGHREKTYSECE  
DGTYSPEISWHHRKGTGSEDSPPKHAGNNESHSSRRNRHSSKSVTNGVGKK

>sp|Q9NZH4|PTTG3\_HUMAN Putative pituitary tumor-transforming gene 3 protein OS=Homo sapiens GN=PTTG3P PE=5 SV=1

MATLIYVDKENEEPILVATKDGLKLGSGPSIKALDGRSQVSISCFGKTFDAPTSPLKAT  
RKALGTVNRAATEKSVKTNGPLKQKQPSFSAKKMTKTKVAKNSVPASDDGYPEIEKLPF  
NPLGFESFDLPPEHQIAHLPLSEVPLMILDEERELEKLFQLGPPSPLKMPSPPWKSNLLQ  
SPLSILLTLDELPPVCSIDI

>sp|P26022|PTX3\_HUMAN Pentraxin-related protein PTX3 OS=Homo sapiens GN=PTX3 PE=1 SV=3

MHLLAILFCALWSAVLAENSDDYDLMYVNLNNEIDNGLHPTEDPTPCACGQEHSEWDKLF  
IMLENSQMRERMLLQATDDVLRGELQRLREELGRLAESLARPCAPGAPAEARLTSALDEL  
LQATRDAGRRLARMEGAEAAQRPEEAGRALAAVLEELRQTRADLHAVQGWAAARSWLPAGCE  
TAILFPMRSKKIFGSVHPVRPMRLESFSACIWKATDVLNKTILFSYGTKRNPYEIQLYL  
SYQSIVFVVGGEENKLVAEAMVSLGRWTHLCGTWNSEGLTSLWVNGELAATTVEMATGH  
IVPEGGILQIGQEKNGCCVGGGFDETLAFSGRLTGFNIDSVLSNEEIRETGGAESCHIR  
GNIVGWGVTEIQPHGGAQYVS

>sp|Q06203|PURI\_HUMAN Amidophosphoribosyltransferase OS=Homo sapiens GN=PPAT PE=1 SV=1

MELEELGIREECGVFCIASGEWPTQLDVPHVITLGLVGLQHRGQESAGIVTSDGSSVPT  
FKSHKGMGLVNHVFTEDNLKKLYVSNLIGHTRYATTGKCELENCQPFVVETLHGKIAVA  
HNGELVNAARLRKKLLRHGIGLSTSSDSEMITQLLAYTPPQEQQDDTPDWVARIKNLMKEA  
PTAYSLIMHRDVIYAVRDPYGNRPLCIGRLIPVSDINDKEKKTSETEGWVVSSESCSFL  
SIGARYYREVLPGEIVEISRHNVTLDIISRSEGNPVAFCIFEYVYFARPDMSMFEDQMVY  
TVRYRCGQQLAIEAPVDADLVSTVPESATPAALAYAGKCGLPYVEVLCKNRYVGRFTIQP  
NMRLRQLGVAKKFGVLSDNFKGKRIVLDDSIVRGNTISPIIKLLKESGAKEVHIRVASP  
PIKYPCFMGINIPTKEELIANKPEFDHLAEYLGANSVVYLSVEGLVSSVQEGIKFKKQKE

KKHDI MIQENGNLECFEKS GHCTACLTGKYPVELEW

>sp|Q96D70|R3HD4\_HUMAN R3H domain-containing protein 4 OS=Homo sapiens GN=R3HDM4 PE=1 SV=3

MVALENPECGPEAAEGTPGGRRLPLPSCLPALASSQVKRLSASRRKQHFINQAVRNSDL  
VPKAKGRKSLQRLNTQYLLTLETGGLPGLEDGDLAPPASPGIFAEACNNATYVEVWN  
DFMNRSGEEQERVLRYLEDEGRSKARRRGPGRGEDRRREDPAYTPRECFQRISRRLRAVL  
KRSRIPMETLETWEERLLRFFSVSPQAVYTAMLDNSFERLLLHAVCQYMDLISASADLEG  
KRQMKVSNRHLDLPPGLLLSAYLEQHS

>sp|Q6MZT1|R7BP\_HUMAN Regulator of G-protein signaling 7-binding protein OS=Homo sapiens GN=RGS7BP PE=2 SV=3

MSSAPNGRKKRPSRSTRSSIFQISKPPLQSGDWERRGSGSESAHKTQRALDDCKMLVQEF  
NTQVALYRELVISIGDVSVCPSLRAEMHKTRTKGCEMARQAHQKLAATISGPEDGEIHPE  
ICRLYIQLQCCEMYTTEMLKSICLLGSLQFHRKGKEPGGGTKSLDCKIEESAETPALED  
SSSSPVDSQQHSWQVSTDIENTERDMREMKNLLSKLRETMPLPLKNQDDSSLLNLTYPYPL  
VRRRKRRFFGLCCLISS

>sp|P61026|RAB10\_HUMAN Ras-related protein Rab-10 OS=Homo sapiens GN=RAB10 PE=1 SV=1

MAKKTYYDLFKLLLIGDSGVGKTCVLFRRSDDAFNTTFISTIGIDFKIKTVELQGKKIKL  
QIWDTAGQERFHTITTSYYRGAMGIMLVYDITNGKSFENISKWLRNIDEHANEDVERMLL  
GNKCDMDDKRVVPKKGKEQIAREHGIRFFETSAKANINIEKAFLTLAEDILRKTPVKEPN  
SENVDISSGGGVTGWKSKCC

>sp|Q9H0T7|RAB17\_HUMAN Ras-related protein Rab-17 OS=Homo sapiens GN=RAB17 PE=1 SV=2

MAQAHRTPQPRAAPSQPRVFKLVLLGSGSVGKSSLALRYVKNDFKSILPTVGCAFFTKVV  
DVGATSLKLEIWDTAGQEKYHSVCHLYFRGANAALLVYDITRKDSFLKAQQWLKDLEEEL  
HPGEVLVMLVGNKTDLSQEREVTFQEGKEFADSQKLLFMETSAKLNHQVSEVFNTVAQEL  
LQRSDEEGQALRGDAAVALNKGPARQAKCCA

>sp|Q9H0U4|RAB1B\_HUMAN Ras-related protein Rab-1B OS=Homo sapiens GN=RAB1B PE=1 SV=1

MNPEYDYLFKLLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQ  
IWDTAGQERFRTITSSYYRGAHGIIVVYDVTQESYANVKQWLQEIDRYASENVNKLVLG  
NKSDDLTKKVVDNTAKEFADSLGIPFLETSAKNATNVEQAFMTMAAEIKKRMGPGAASG  
GERPNLKIDSTPVKPAGGGCC

>sp|Q92928|RAB1C\_HUMAN Putative Ras-related protein Rab-1C OS=Homo sapiens GN=RAB1C PE=5 SV=2

MNPGYDCLFKLLLIGDSGVGKSCLLLRFADDPYTESYISTIGVDFKIQTIELDGKTIKLQ  
IWDTAGQERFWTITSSYYRGAHGLVVYDVTQESYANVKQWLQEIDRHASENVNKLVLG  
NKSDDLTKKVVDNTAKEFADSLGIPFLETSAKNATNVEQAFMTMAAEIKKQMGPGAASG  
GERPNLKIDSTPVKPAGGGCC

>sp|Q969Q5|RAB24\_HUMAN Ras-related protein Rab-24 OS=Homo sapiens GN=RAB24 PE=1 SV=1

MSGQRVDVKVVMLGKEYVGKTSVERYVHDRFLVGPYQNTIGAAFAKVMVSGDRTVTLG  
IWDTAGSERYEAMSRIYYRGAKAAIVCYDLTDSSSFERAKFWVKELRSLEEGCQIYLCGT  
KSDLLEEDRRRRRVDFHDVQDYADNIKAQLFETSSKTGQSVDELQKVAEDYVSVAAFQV  
MTEDKGVDLGQKPNPYFYSCCH

>sp|Q96AX2|RAB37\_HUMAN Ras-related protein Rab-37 OS=Homo sapiens GN=RAB37 PE=1 SV=3

MTGTPGAVATRDGEAPERSPPCSPSYDLTGKVMLLGDTGVGKTCFLIQFKDGAFLSGTFI  
ATVGIDFRNKVTVDGVRVKLQIWDTAGQERFRSVTHAYYRDAQALLLYDITNKSSFDN

IRAWLTEIHEYAQRDVVIMLLGNKADMSSERVIRSEDGETLAREYGVPFLETSAKTGMNV  
ELAF LAIAKELKYRAGHQADEPSFQIRDYVESQKKRSSCCSFM

>sp|Q7Z6P3|RAB44\_HUMAN Ras-related protein Rab-44 OS=Homo sapiens GN=RAB44 PE=1 SV=3

MQDVLEAKEREVQRLAEGQRELEAQLSHLRSTHQEAASENQQLQEAKRDLAGRLEEVRGQ  
LQVTRGR LDAARGRVSWQVEEKLQVAAIPGLGFPGAGEKTPDPQAASPEEAPLPGLFGD  
NDDWDQLLSNFGSPPHGALQLCWSPPPTPRATSGPQTTPRVVRQISISEPQAFLFGQEPSS  
DPDGAPRTPPGVTFSAKDNKGVDPEQDIRAEQVPEPHDPDPNQEPGSTPEGRLLWGLSG  
SLVAPAFKVLIPLEDGPPPPANSPPPPQAPAGSSKQIQASDPDDKPGGQRDALQQDLHATG  
SEPRLGTQRARALTGPAEPFQGLEFVGVPPTERLEQQGAGPAVQEGLPEGLREAHGQVL  
GLGELSAFPHQELEEEPRSEEGKQEGRGQDLSSSEQSEQSVEAHGLETAHSELPQQDSLL  
VSLPSATPQAQVEAEGPTPGKSAPPRGSPPRGAQPGAGAGPQEPTQTPTTMAEQEAQPRP  
SLTTAHAEQGPPTSREPREASRLDPGMSREAGLTPSPGDPMAGGGPQANPDYLFHVI  
FLGDSNVGKTSFLHLLHQNSFATGLTATVGVDVRVKTLLVDNKCFLQLWDTAGQERYHS  
MTRQLLRKADGVVLMYDITSQESFAHVRYWLDCLQDAGSDGVVILLGNKMDCEEERQVS  
VEAGQQLAQELGVYFGECSAALGHNILEPVVNLARSLRMQEGLKDSLKVAPKRPPKRF  
GCC

>sp|P20340|RAB6A\_HUMAN Ras-related protein Rab-6A OS=Homo sapiens GN=RAB6A PE=1 SV=3

MSTGGDFGNPLRKFKLVFLGEQSVGKTSLITRFMYDSFDNTYQATIGIDFLSKTMYLEDR  
TVRLQLWDTAGQERFRSLIPSYIRDSTVAVVVYDITNVNSFQQTTKWIDDVRTERGSDVI  
IMLVGNKTDLADKRQVSIIEGERKAKELNVMFIETSAKAGYNVKQLFRRVAAALPGMEST  
QDRSREDMIDIKLEKPQEQPVSEGGCSC

>sp|O14966|RAB7L\_HUMAN Ras-related protein Rab-7L1 OS=Homo sapiens GN=RAB29 PE=1 SV=1

MGSRDHLFKVLVVGDAAVGKTSLVQRYSDSFSKHYKSTVGVDFAKVLQWSDYEVRLQ  
LWDIAGQERFTSMTRLYYRDASACVIMFDVTNATTFSNSQRWKQDLDSKLTLPNGEPVPC  
LLLANKCDLSPWAVSRDQIDRFKENGFTGTETSVKENKNINEAMRVLIEKMMRNSTED  
IMSLSTQGDIYNLQTKSSSWSCC

>sp|Q6WBX8|RAD9B\_HUMAN Cell cycle checkpoint control protein RAD9B OS=Homo sapiens  
GN=RAD9B PE=1 SV=2

MLKCVMSGSQVKVFGKAVQALSRISEDFWLDPSKKGLALRCVNSSRSAYGCVLFSPVFFQ  
HYQWSALVKMSENELDTTLHLKCKLGMKSILPIFRCLNSLERNIEKCRIFTRSDKCKVVI  
QFFYRHGIKRTHNICFQESQPLQVIFDKNVCTNTLMIQPRLLADAIVLFTSSQEEVTLAV  
TPLNFCCLKSSNEESMDLSNAVHSEMFGSDEFDFQIGMDTEITFCFKELKGILTFSEAT  
HAPISYIFDFPGKPLALSIDDMLVEANFILATLADEQSRASSPQSLCLSQKRKRSDLIEK  
KAGKNVTGQALECISKKAAPRRLYPKETLTNISALENCSPAMKRVDGDVSESVSVSN  
TEEVPGSLCLRKFSMFFGAVSSDQQEHFNHPFDSLARASDSEEDMNNVCCRKEFNNGSDA  
KYFCII

>sp|Q7Z5J4|RAI1\_HUMAN Retinoic acid-induced protein 1 OS=Homo sapiens GN=RAI1 PE=1 SV=2

MQSFRERC GFHGKQNYQQTSETSRLENYRQPSQAGLSCDRQLLAKDYNNPQPYPSE  
GGAGTPSGTAAVAADKYHRGSKALPTQQGLQGRPAFPGYGVQDSSYPGRYAGEESLQA  
WGAPQPPPPQPPLPAGVAKYDENLMKKTAVPPSRQYAEQGAQVPFRTHSLHVQPPPPQ  
QPLAYPKLQRQKLQNDIASPLPFPQGTHFPQHSQSFTSSTYSSSVQGGGQGAHSYKSCT  
APTAQPHDRPLTASSSLAPGQRVQNLHAYQSGRLSYDQQQQQQQQQQQQQALQSRHHAQ  
ETLHYQNLAKYQHYGQQGQGYCQPDAAVRTPEQYYQTFSPSSSHSPARSVGRSPSYSTP  
SPLMPNLENFPYSQQPLSTGAFPAGITDHSFMPLLNPSPTDATSSVDTQAGNCKPLQKD

KLPENLLSDLQLSLTALTSQVENISNTVQQLLLSKAAVPQKKGVKNLVSRTPEQHSQH  
CSPEGSGYSAEPAGTPLSEPPSSTPQSTHAEPQEADYLSGSEDLERSFLYCNQARGSPA  
RVNSNSKAKPESVSTCSVTSPDDMSTKSDDSFQSLHGSLPLDSFSKFVAGERDCPRLLLS  
ALAQEDLASEILGLQEATGEKADKAWAEAPSLVKDSSKPPFSLENHSACLDVAKSAWPR  
PGEPEALPDSLQLDKGGNAKDFSPGLFEDPSVAFATPDPKKTGPLSFGTKPTLGVPAPD  
PTTAADFCDPDTAASSADSANPFAWPEENLGDACPRWGLHPGELTKGLEQGGKASDGIS  
KGDTHEASACLGFEEDPPGEKVASLPGDFKQEEVGGVKEEAGLLQCPEVAKADRWLED  
SRHCCSTADFGDLPLLPPTSREKEDLEAEYSSLCCELLGSPEQRPGMQDPLSPKAPLICT  
KEEVVEVLDSKAGWGSPCHLSGESVILLGPTVGTESKVQSWFESSLSHMKPGEEGPDGER  
APGDSTSDASLAQKPNKPAVPEAPIAKKEPVPRGKSLRSRRVHRGLPEAEDSPCRAPVL  
PKDLLLPESCTGPPQGQMEGAGAPGRGASEGLPRMCTRSLTALSEPRTGPPGLTTTPAP  
PDKLGKQRAAFKSGKRVGKPSKAASSPSNPAALPVASDSSPMGSKTKETDSPSTPGKD  
QRSMILRSRTKTQEIFHSKRRRPSEGRLPNCRATKKLLDNSHLPATFKVSSSPQKEGRVS  
QRARVPKPGAGSKLSDRPLHALKRKSAFMAPVPTKKRNLVLRSSSSSNASNGGDGKE  
ERPEGSPTLFRKMSSPKAKPTKNGEPATKLPPEPTDACLKLASRAAFQGAMTKVLP  
PRKGRGLKLEAIVQKITSPSLKKFACKAPGASPGNPLSPSLSDKDRGLKGAGGSPVGVEE  
GLVNVGTGQKLPTSGADPLCRNPTNRSKLGKLMNSKKLSSTDCFKTEAFTSPEALQPGGT  
ALAPKKRSRKGRAGAHLSKGPLEKRPYLGPAALLTPRDRASGTQGASEDNSSGGGKKPK  
MEELGLASQPPEGRPCQPQTRAQKQPGHTNYSSYSKRRLTRGRAKNTTSSPCKGRAKRR  
RQQQVLPLDPAEPEIRLKYISSCKRLRSDSRTAFSPFVRVEKRDAFTTICTVNSPGDA  
PKPHRKPSSSASSSSSSSFSLDAAGASLATLPGGSILQPRPSLPLSSTMHLGPVVS  
KALSTSCLCVCLCQNPANFKDLGDLCPYPYEHCLPKKKPKLKEKVRPEGTCEEASLPLRTL  
KGPECAAAATAGKPPRPDGPADPAKQGPLRTSARGLSRRLQSCYCCDGGEDGGEAAAPAD  
KGRKHECSKEAPAEPGGEAQEHVWEACAVWTGGVYLVAGKLFGLQEAMKVAVDMMCSSC  
QEAGATIGCCHKGLHTYHYPCASDAGCIFIEENFSLKCPKHRLP

>sp|P11234|RALB\_HUMAN Ras-related protein Ral-B OS=Homo sapiens GN=RALB PE=1 SV=1

MAANKSKGQSSLALHKVIMVGGGVGKSALTQFMYDEFVEDYEPTKADSYRKVVLDGE  
EVQIDILDTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDK  
IPLLVGNKSDLEERRQVPVEEARSKAEEWGVYVETSATKTRANVDKVFDFLMREIRTKK  
MSENKDKNGKKSSKNKKSFKERCCLL

>sp|075475|PSIP1\_HUMAN PC4 and SFRS1-interacting protein OS=Homo sapiens GN=PSIP1 PE=1 SV=1

MTRDFKPGDLIFAKMKGYPHWPARVDEVDPDGAVKPPTNKLPIDFFGTHETAFLGPKDIFP  
YSENKEYGKPNKRKGFNEGLWEIDNNPKVKFSSQQAATKQSNASSDVEVEEKETSVSKE  
DTDHEEKASNEVDTKAVDITTPKAARRGRKRKAQVETEEAGVTTATASVNLKVSPKR  
GRPAATEVKIPKPRGRPKMVQPCPSESDIITEEDKSKKKGQEEKQPKKQPKKDEEGQKE  
EDKPRKEPDKKEGKEVESKRKNLAKTGVTSSTDSSEEGDDQEGEKKRKGGRNFQTAHRR  
NMLKGQHEKEAADRKRKQEEQMETEQQNKDEGKKPEVKKVEKKRETSMSRLQRIHAEIK  
NSLKIDNLDVNRICELDELASLQVTMQQAQKHEMITTLKKIRRFKVSQVIMEKSTMLY  
NKFKNMFLVGEGDSVITQVLNKSALAEQRQHEEANKTKDQGGKGNKKLEKEQTGSKTLNG  
GSDAQDGNQPHNGESNEDSKDNHEASTKKKPSSEERETEISLKDSTLDN

>sp|P55036|PSMD4\_HUMAN 26S proteasome non-ATPase regulatory subunit 4 OS=Homo sapiens GN=PSMD4 PE=1 SV=1

MVLESTMVCDNSEYMRNGDFLPTRLQAQDAVNIVCHSKTRSNPENNVLITLANDCEV

LTTLTPDTGRILSKLHTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDN  
EKDLVKLAKRLKKEKVNVDIINFGEEEVNTEKLTAFVNTLNGKDGTSGLVTVPPGPSLA  
DALISSPILAGEGAMLGLGASDFEFGVDPSADPELALALRVSMEEQRQRQEEEARAAA  
ASAAEAGIATTGTEDSDALLKMTISQQEFGRGTGLPDLSSMTEEEQIAYAMQMSLQGAEF  
GQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNEAIRNAMGSLA  
SQATKDGKKDKKEEDKK

>sp|P48556|PSMD8\_HUMAN 26S proteasome non-ATPase regulatory subunit 8 OS=Homo sapiens  
GN=PSMD8 PE=1 SV=2

MFIKGRAPRAPPRERRRATRGGRLQVVPAPRALGSTSRPHFRRASVCRRRCRKSGGLLAA  
SRKMAAAAVNGAAGFSSSGPAATSGAVLQAATGMYEQLKGEWNRKSPNLSKCGEELGRLK  
LVLLELNLPTTGTLTKQQLILARDILEIGAQWSILRKDIPSFERYMAQLKCYFFDYKE  
QLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGS  
YNKVFLAKGNIPAESYTFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMT  
DYAKKRGWVLGPNYYSFASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

>sp|Q06323|PSME1\_HUMAN Proteasome activator complex subunit 1 OS=Homo sapiens GN=PSME1  
PE=1 SV=1

MAMLRVQPEAQAKVDVFREDLCTKTENLLGSYFPPKISELDAFLKEPALNEANLSNLKAP  
LDIPVPDPVKEKEKEERKKQKEKEDKDEKKKGEDEDKGPCCGPVNCNEKIVLLQRLKPE  
IKDVIEQLNLVTTWLQLQIPRIEDGNNFGVAVQEKVFELMTSLHTKLEGFHTQISKYFSE  
RGDAVTKAAKQPHVGDRQLVHELDEAEYRDIRLMVMEIRNAYAVLYDIIILKNFEKLKKP  
RGETKGMIV

>sp|O60542|PSPN\_HUMAN Persephin OS=Homo sapiens GN=PSPN PE=2 SV=1

MAVGKFLGSLLLSLQLGQGWGPDARGVPVADGEFSSEQVAKAGGTWLGTHRPLARLRR  
ALSGPCQLWSLTLVAELGLGYASEEKVIFRYCAGSCPRGARTQHGLALARLQGGGRAHG  
GPCCRPTRYTDVAFLDDRHRWQRLPQLSAAACGCGG

>sp|O96011|PX11B\_HUMAN Peroxisomal membrane protein 11B OS=Homo sapiens GN=PEX11B PE=1  
SV=1

MDAWVRFSAQSQARERLCRAAQYACSLLGHALQRHGASPELQKQIRQLESHLSLGRKLLR  
LGNSADALESAKRAVHLSDVVLRFCITVSHLNRALYFACDNVLWAGKSLAPRVDQEKWA  
QRSFRYYLFSLIMNLSRDAYEIRLLMEQESSACSRRLKSGGGVPGGSETGGLGGPGTPG  
GGLPQLALKLRLQVLLARVLRGHPPLLLDVVRNACDLFIPLDKLGLWRCGPGIVGLCGL  
VSSILSILTLIYPWLRLKP

>sp|Q6UX71|PXDC2\_HUMAN Plexin domain-containing protein 2 OS=Homo sapiens GN=PLXDC2 PE=1  
SV=1

MARFPKADLAAAGVMLLCHFFTDQFQFADGKPGDQILDWQYGVTAQFPHTEEVEVDSHA  
YSHRWKRNLDFLKAVDTNRASVGQDSPEPRSFDTLLDDGQDNNTQIEEDTDHNYIISRI  
YGPDSASRDLLWNIDQMEKDKVKIHGILSNTHRQAARVNLSFDFPFYGHFLREITVATG  
GFIYTGVEVVHRLTATQYIAPLMANFDPVSRNSTVRYFDNGTALVVQWDHVHLQDNYNL  
GSFTFQATLLMDGRIIFGYKEIPVLVTQISSNHPVKVGLSDAFVVVHRIQQIPNVRRT  
IYEHYRVELQMSKITNISAVEMTLPCLQFNRCGPCVSSQIGFNCWSCSKLQRCSSGFD  
RHRQDWVDSGCPEESKEKMCENTEPVETSSRTTTTVGATTTQFRVLTTRRAVTSQFPTS  
LPTEDDTKIALHLKDNGASTDSDAAEKKGGTLHAGLIIGILILVLIVATAILVTVMYHH  
PTSAASIFFIERRPSRWPAMKFRRGSGHPAYAEVEPVGEKEGFIVSEQC

>sp|P06737|PYGL\_HUMAN Glycogen phosphorylase, liver form OS=Homo sapiens GN=PYGL PE=1 SV=4

MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRLHFTLVKDRNVATTRDYYFALAHTV  
RDHLVGRWIRTQQHYDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDI  
EELEEIEEDAGLNGGLGRLAACFLDSMATLGLAAYGYGIRYEYGFNQKIRDGWQVEEA  
DDWLRYGNPWKSRPEFMLPVHFGYKVEHTNTGTKWIDTQVVLALPYDTPVPGYMNNTVN  
TMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFV  
VAATLQDIIRRFKASKFGSTRGAGTVFDFPDQVAIQLNTHPALAIPELMRIFVDIEKL  
PWSKAWELTQKTFAYTNHTVLEALERWPDVLEKLLPRHLEIIYEINQKHLDRIVALFP  
KDVDRLRRMSLIEEEGSKRINMAHLICIVGSHAVNGVAKIHSDIVKTKVFKDFSELEPDKF  
QNKTNGITPRRWLLCNPLAELIAEKIGEDYVKDLSQLTKLHSFLGDDVFLRELAKVKQ  
ENKLKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLNCLHVITMYNRIKKDPKKLFV  
PRTVIGGKAAPGYHMAKMI IKLITSVADVNNDPMVGSKLKVIFLENYRVSLAEKVIPA  
TDLSEQISTAGTEASGTGNMKFMLNGALTIGTMDGANVEMAEAGEENLFI FGMRIDDVA  
ALDKKGYEAKYYEALPELKLVIDQIDNGFFSPKQPDLFKDIINMLFYHDFKVFADYEA  
YVKCQDKVSQLYMNPKAWNTMVLKNIAASGKFSSDRTIKEYAQNIWNVEPSDLKISLSNE  
SNKVNGN

>sp|Q9BRQ0|PYG02\_HUMAN Pygopus homolog 2 OS=Homo sapiens GN=PYG02 PE=1 SV=2

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FAPPPTPMVDHLVASNPFEDDFGAPKVGVAAPPFLGSPVPFGGFRVQGGMAGQVPPGYST  
GGGGGPQLRRQPPFPNPMGPAPNMPQGPYPPPGNMNFPSPFNQPLGQNFSPPSG  
QMMPGPVGGFGPMISPTMGQPPRAELGPPSLSQRFAPGAPFGPSPLQRPGQGLPSLPPN  
TSPFPGPDPGFPGGGEDGGKPLNPPASTAFPQEPHSGSPAAAVNGNQPSFPPNSSGRGG  
GTPDANSLAPPGKAGGSGPQPPGLVYPCGACRSEVNDQDAILCEASCQKWFHRECTG  
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>sp|Q9NRF8|PYRG2\_HUMAN CTP synthase 2 OS=Homo sapiens GN=CTPS2 PE=1 SV=1

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LNDGGEVDLDLGNRYERFLDINLYKDNITTGKIYQHVINKERRGDYLGKTVQVVPHTDA  
VQEWVMNQAKVPVDGNKEEPQICVIELGGTIGDIEGMPFVEAFRQFQFQKAKRENF  
SLVPQLSATGEQTKPTQNSVRALRGLGLSPDLIVCRSSTPIEMAVKEKISMFCHVNPEQ  
VICIHDVSSTYRVPVLLEEQSIKVFYKERLHLPIGDSASNLLFKWRNMADRYERLQKICS  
IALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETEDPVKFHEAWQK  
LCKADGILVPGGFGIRGLGKLQAISWARTKKIPFLGVCLGMQLAVIEFARNCLNLK  
STEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKLYGDVPFIEERHRH  
RFEVNPNIKQFEQNDLSFVGQDVGDRMEIIELANHPYFVGQFHFPEFSSRPMKPSPPY  
LGLLLAATGNLNAYLQQGCKLSSSDRYSDASDDSFSEPRIAELEIS

>sp|Q8TB72|PUM2\_HUMAN Pumilio homolog 2 OS=Homo sapiens GN=PUM2 PE=1 SV=2

MNHDFQALALESRMGELLPTKKFWEPDDSTKDQKGI FLGDDEWRETAWGASHHMSQP  
IMVQRRSGQGFGHNSVNAILSPRSESGGLGVMVEYVLS SSPADKLDSRFRKGNFGTRD  
AETDGPEKGDQKGA SPFEEDQNRDLKQGD DDDSKINGRGLPNGMDADCKDFNRTPGSRQ  
ASPTVVVERLGPNTNPSEGLGPLNPNTANKPLVEEFSNPETQNL DAMEQVGLESLQFDYP  
GNQVPMDDSGATVGLFDYNSQQQLFQRTNALTVQQLTAAQQQYALAAAQQPHIAGVFS  
GLAPAAFPVPNYII SAAPP GTPYTAAGLAAAATLAGPAVVPQYYGVPGVYPANLFQQ  
QAAAAANNTASQQAASQAQPGQQQVLRAGAGQRPLTPNQGGQQQAESLAAAAANPTLA



FGQGLATGMPGYQLAPTAYYDQTGALVVGPGARTGLGAPVRLMAPTPVLISSAAAQAAA  
AAAAGGTASSLTGSTNGLFRPIGTQPPQQQQQPSTNLQNSFYGSSSLTNSSQSSSLFS  
HGPQQPGSTSLGFGSGNSLGAAGSALSGFGSSVGSSASSSATRRESLTSSDLYKRSSS  
SLAPIGQPFYNSLGFSSSPSIGMPLPSQTPGHSLTPPSSLSSHGSSSSHLGGLTNGSG  
RYISAAPGAEAKYRSASSTSSLFSSSSQLFPPSRLRYNRSDIMPSSRRLLEDFRNNRFP  
NLQLRDLIGHIVEFSQDQHGSRFIQQKLERATPAERQMVFNELQAAYQLMTDVFNGYVI  
QKFFFEFGSLDQKLALATRIRGHVLPALQMYGCRVIQKALESISSDQQVISEMVKELDGH  
VLKCVKDQNGNHVVQKCIIECVQPQSLQFIIDAFKGQVFLSTHPYGCRVIQRILEHCTAE  
QTLPILEELHQTEQLVQDQYGNVVIQHVLEHGRPEDKSKIVSEIRGKVLALSQHKFASN  
VVEKCVTHASRAERALLIDEVCCQNDGPHSALYTMKDQYANYVVQKMIDMAEPAQRKII  
MHKIRPHITTLRKYTYGKHILAKLEKYLLKNSPDLGPIGGPPNGML

>sp|Q13610|PWP1\_HUMAN Periodic tryptophan protein 1 homolog OS=Homo sapiens GN=PWP1 PE=1  
SV=1

MNRSRQVTCVAWVRGCVAKETPDKVELSKEEVKRLIAEAKEKLQEEGGGSDEEETGSPSE  
DGMQSARTQARPREPLEDGDPEDDRTLDDDELAEYDLDKYDEEGDPAETLGESLLGLTV  
YGSNDQDPYVTLKDTEQYEREDFLIKPSDNLIVCGRAEQDQCNELVHVYNQEEDSFYVHH  
DILLSAYPLSVEWLNFDPSDDSTGNYIAGVNMTPVIEVWDLDIVDSLEPVFTLGSKLSK  
KKKKKGKSSSAEGHTDAVLDSLWNKLIRNVLASASADNTVILWMSLGKPAASLAVHTD  
KVQTLQFHPFEAQTILSGSYDKSVALYDCRSPDESHRMWRFSGQIERVTWNHFSCHFLA  
STDDGFVYNLDARS DKPIFTLNAHNDEISGLDLSSQIKGCLVTASADKYVKIWDILGDRP  
SLVHSRDMKMGVLCSSCCPDLPFIYAFGGQKEGLRVWDISTVSSVNEAFGRRERLVLGS  
ARNSSISGPFGRSSDTPMES

>sp|Q15269|PWP2\_HUMAN Periodic tryptophan protein 2 homolog OS=Homo sapiens GN=PWP2 PE=2  
SV=2

MKFAYRFSNLLGTVYRRGNLNFCDGNSVISPVGNRVTVFDLKNNKSDTLPLATRYNVKC  
VGLSPDGR LAIIVDEGGDALLVSLVCRSVLHHFHFKGSVHSVSFSPDGRKFVVTGNIAQ  
MYHAPGKKREFNAFVLDKTYFGPYDETTCIDWTDDSRCFVVGSKDMSTWVFGAERWDNLI  
YYALGGHKDAIVACFFESNSLDLYSLSQDGVLCMWQCDTPPEGLRLKPPAGWKADLLQRE  
EEEEEEEDQEGDRETTIRGKATPAEEETGKVYSRLAKYFFNKEGDFNNLTAAAFHKKS  
HLLVTGFASGIFHLHELPEFNLIHSLSISDQSIASVAINSSGDWIAFGCSGLGQLLVWEW  
QSESYVLKQQGHFNSMVALAYSPDGQYIVTGGDDGKVKVWNTLSGFCFVTFTEHSSGV TG  
VTFTATGYVVVTSSMDGTVRAFDLHRYRNFRFTFTSPRPTQFSCVAVDASGEIVSAGA QDS  
FEIFVWSMQTGRLLDVLSGHEGPISGLCFNPMKSVLASASWDKTVRLWDMFDSWRKETL  
ALTS DALAVTFRPDGAELAVATLNSQITFWDPENAVQTGSIEGRHDLKTGRKELDKITAK  
HAAKGKALTALCYSADGHSILAGGMSKFVCIYHVREQILMKRFEISCNLSLDAMEEFLNR  
RKMTEFGNLALIDQDAGQEDGVAIPLPGVRKGMSSRHFKPEIRVTS LRFSPTGRCWAAT  
TTEGLLIYSLDTRVLFDPFELDTSVTPGRVREALRQQDFTRAILMALRLNESKLVQEAL E  
AVPRGEIEVVTSSPELYVEKVL EFLASSFEVSRHLEFYLLWTHKLLMLHGQKLKSRAGT  
LLPVIQFLQKSIQRHLDDL SKLCSWNHYNMQYALAVSKQRGTRKSLDPLGSEEEAEASED  
DSLHLLGGGGRDSEEEMLA

>sp|Q5TGL8|PXDC1\_HUMAN PX domain-containing protein 1 OS=Homo sapiens GN=PXDC1 PE=2 SV=3

MASAVFEGTSLVNMFVRGCWVNGIRRLIVSRRGDEEEFFEIRTEWSDRSVLYLHRS LADL  
GRLWQRLRDAFPEDRSELAQGPLRQGLVAIKEAHD IETRLNEVEKLLKTIISMPCKYSRS  
EVVLTFFERSPLDQVLKNDNVHKIQPSFQSPVKISEIMRSNGFCLANTETIVIDHSIPNG

RDQQLGVDPTHELFENGSEFPSELEDGDDPAAYVTNLSYHLVPFETDIWD

>sp|I3LOS3|PYAS1\_HUMAN Putative uncharacterized protein PYCARD-AS1 OS=Homo sapiens  
GN=PYCARD-AS1 PE=5 SV=1

MRAHVAQHVSSELGAVGLQVEADQLVGEVQGVHGQQRAPRDAPVALAQRHRQQLQLELLE  
LLGGQVLQRIQDGVARAPHGSRIPGRCRRSPRCSRRPGGSRLRGGTWTPLPPTLVSRLP  
APVRCPPAKGASLLHPWSPPTQASGLGPQAVGGRQDRALQLACEVGPRGPQRGSWVAPA  
CLWACTSGYRPETWAGSHWVYVST

>sp|PODMW2|PYDC4\_HUMAN NLR family pyrin domain-containing protein 2B OS=Homo sapiens  
GN=NLRP2B PE=2 SV=1

MVSSAQLDFNLQALLGQLSQDDLCKFKSLIRTVSLGNELQKIPQT

>sp|P27708|PYR1\_HUMAN CAD protein OS=Homo sapiens GN=CAD PE=1 SV=3

MAALVLEDGSVLRGQPFGAAVSTAGEVVFQTMVGYPEALTDPSYKAQILVLTYPILIGNY  
GIPPDEMDIEGLCKWFESSGIHVAALVGECCPTPSHWSATRTLHEWLQQHGIPGLQGV  
TRELTKKLREQSSLGKLVQNGTEPSSLPFLDPNARPLVEVSIKTPRVFNTGGAPRILA  
LDCGLKYNQIRCLCQGAQVTVVWDHALDSQEYGLFLSNGPGDPASYPVSVTSLSRVL  
SEPNNRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLTSQNHGFAVE  
TDSLPAWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEA  
TAGNPGGQTVRERLTERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAI  
KALKEENIQTLINPNIAIVQTSQGLADKVYFLPITPHYVTQVIRNERPDGVLLTFGGQT  
ALNCGVELTKAGVLARYGVRVLGTPVETIELTEDRRAFAARMAEIGEHVAPSEAANSLEQ  
AQAAAERLGYPVLRAAFALGGLSGGFASNREELSALVAPAFHTSQVLVDKSLKGWKEI  
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTLNDREYQLLRQTAIKVTQHLG  
IVGECNVQYALNPESEQYIIIEVNARLSRSSALASKATGYPLAYVAAKLALGIPLPELRN  
SVTGGTAAFEPSVDYCVVKIPRWDLSKFLRVSTKIGSCMKSVGEVMGIGRSFEEAFQKAL  
RMVDENCVGFDHTVKPVSDMELETPTDKRIFVVAALWAGYSVDRLYELTRIDRWFLHRM  
KRIIAHAQLLEQHRGQPLPPDLLQAKCLGFSQKQIALAVLSTELAVRKLRLQELGICPAV  
KQIDTVAAEWPAQTNLYLYTWGTTHDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQ  
QLRKMGYKTIMVNNYPETVSTDYDMCDRLYFDEISFEVMDIYELENPEGVILSMGGQLP  
NNMAMALHRQQCRVLGTSPEAIDSAENRFKFSRLDITIGISQPQWRELSDESARQFCQT  
VGYPVVRPSYVLSGAAMNVAYTDGDLERFLSSAAVSKHEPVVISKFIEAKEIDVDAV  
ASDGVAIAIAISEHVENAGVHSGDATLVTPPQDITAKTLERIKAIHVAVGQELQVTGPFN  
LQLIAKDDQLKVIENVRVSRSPFVSKTLGVDLVALATRVIMGEEVPEVGLMTGSGVVG  
VKVPQFSFSLAGADVVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIG  
SYKNKSELLPTVRLLESGLSYSLYASLGTADFYTEHGVKVTAVDWHFEEAVDGECPQRSI  
LEQLAEKNFELVINLSMRGAGGRRLLSSFTKGYRTRRLAADFSVPLIIDIKCTKLFVEAL  
GQIGPAPPLKVHDCMTSQKLVRPLGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMV  
CAMPNTRPPIIDAPALALAQLAEAGARCDFALFLGASSENAGTLGTAVGSAAGLKLYLN  
ETFSELRLDSVVQWMEHFETWPSHLPVIAHAEEQQTAAVLMVAQLTQRSVHICHVARKEE  
ILLIKAARGLPVTCVAPHHLFLSHDDLRLGPGKGEVRPELGSRQDVEALWENMAVI  
DCFASDHAPHTLEEKCSRPPPGFPLETMLPLLLTAVSEGRSLDILLQLHHPNRRIF  
HLPPQEDTYVEVDLEHEWTIPSHMPFSKAHWTPFEGQKVKGTVRRVVLGEVAYIDGQVL  
VPPGYGQDVRKWPQGAVPQLPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASD  
PGLPAEEPKEKSSRKVAEPELMGTPDGTCTPPPPVPRQASQNLGTPGLLHPQTSPLLHS  
LVGQHILSVQQFTKDQMSHLFNVAHTLRMMVQKERSLDILKGKVMASMFYEVSTRTSSSF

AAAMARLGGA VLSFSEATSSVQKGESLADSVQTMSCYADV VVLRHPQPGAVELA AAKHCRR  
PVINAGDGVGEHPTQALLDIFTIREELGTVNGMTITMVGDLKHGRTVHSLACLLTQYRVS  
LRYVAPPSLRMPPTVRAFVASRGTKQEEFESIEEALPDTDVLYMTRIQKERFGSTQEYEA  
CFGQFILTTPHIMTRAKKKMVMHPMPRVNEISVEVSDPRAAYFRQAENGMYIR MALLAT  
VLGRF

>sp|Q96BW5|PTER\_HUMAN Phosphotriesterase-related protein OS=Homo sapiens GN=PTER PE=1  
SV=1

MSSLSGKVQTVLGLVEPSKLGRTLTHEHLAMTFDCCYCPPPPCQEAI SKEPIVMKNLYWI  
QKNAYSHKENLQLNQETEA IKEELLYFKANGGGALVENTTGTISRDTQTLKRLAEETGVH  
IISGAGFYVDATHSSETRAMSVEQLTDVLMNEILHGADGTSIKCGIIGEIGCSWPLTESE  
RKVLQATAHAQAQLGCPVI IHPGRSSRAPFQIIRILQEAGADISKTVMSHLDRTILDKKE  
LLEFAQLGCYLEYDLFGTELLHYQLGPDIDMPDDNKRI RRVLLVEEGCEDRILVAHDIH  
TKTRLMKYGGHGYSHILTNVVPKMLLRGITENVLDKIL IENPKQWLTFK

>sp|Q14914|PTGR1\_HUMAN Prostaglandin reductase 1 OS=Homo sapiens GN=PTGR1 PE=1 SV=2

MVRTKTWTLKKHFGVYPTNSDFELKTAELPPLKNGEV LLEALFLTVDPYMRVAAKRLKEG  
DTMMGQQVAKVVESKNVALPKG TIVLASPGWTHSISDGKDLEKLLTEWPD TIPLSLALG  
TVGMPGLTAYFGLLEICGVKGGETVMVNAAAGAVGSVVGQIAKLKGCKVVGAVGSDEKVA  
YLQKLGFDDVFNKYTVESLEETLKKASPDGYDCYFDNVGGEFSNTVIGQM KKFGR I AICG  
AISTYNRTGPLPPGPPPEI VIYQELRMEAFVVYRWQGDARQKALKDLLK WVLEGKI QYKE  
YIIIEGFENMPA AFM GMLKGDNLGKTIVKA

>sp|P06454|PTMA\_HUMAN Prothymosin alpha OS=Homo sapiens GN=PTMA PE=1 SV=2

MSDAAVDTSSEITTKDLKEKKEVVEEAENGRDAPANGNAENEENGEQEADNEVDEEEEEEG  
GEEEEEEEEEGDGEEDGDEDEEAESATGKRAAEDDEDDVDTKKQKTDEDD

>sp|Q06124|PTN11\_HUMAN Tyrosine-protein phosphatase non-receptor type 11 OS=Homo sapiens  
GN=PTPN11 PE=1 SV=2

MTSRRWFHPNITGVEAENLLL TRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQNTG  
DYYDLYGGEKFATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERWFHGLSGK  
EAEKLLTEKGKHSFLVRESQSHPGDFVLSVRTGDDKGESNDGKSKVTHVMIRCQELKYD  
VGGGERFDSLTDLVEHYKKNPMVETLGTVLQLKQPLN TTRINAAEIESRVRELSKLAETT  
DKVKQGFWEETFELQQQECKLLYSRKEGQRQENKNKNRYKNILPFDHTRVVLHDGDPNEP  
VSDYINANIIMPEFETKCNNSKPKKSYIATQGCLQNTVND FWRMV FQENS RVIVMTTKEV  
ERGSKSKCVKYWPDEYALKEYGVMVRNVKESAAHDYTLRELKLSKVGQALLQGNTERTVW  
QYHFRTWPDHGVPSDPGGVLD FLEEVHHKQESIMDAGPVVVHCSAGIGRTGT FIVIDILI  
DIIREKGVDCIDIVPKTIQM VRSQRSGMVQTEAQYRFIYMAVQHYIETLQRRIEEEQKSK  
RKGHEYTNIKYSLADQTSGDQSPLPPCTPTPPCAEMREDSARVYENVGLMQQKKSFR

>sp|Q9H3S7|PTN23\_HUMAN Tyrosine-protein phosphatase non-receptor type 23 OS=Homo sapiens  
GN=PTPN23 PE=1 SV=1

MEAVPRPMIWL DLKEAGDFHFQPAVKKFVLKNYGENPEAYNEELKKLELLRQNAVRVPR  
DFEGCSVL RKYLGQLHYLQSRVPMGSGQEAAVPVTWTEIFSGK SVAHEDIKYEQACILYN  
LGALHSM LGAMDKRVSEEGMKVSC THFQCAAGAFAYLREHFPQAYSVDMSRQILTLNVNL  
MLGQAQECLLEKSM LDRKSFLVARI SAQVVDYYKEACRALENPD TASLLGRIQKD WKKL  
VQMKIYYFAAVAHLHMGKQAE EQKFGERVAYFQSALDKLNEAIKLAGQPDTVQDALRF  
TMDVIGGKYNSAKKDNDFIYHEAVPALDTLQPVKGAPLVKPLPVNPTDPAVTGPDIFAKL  
VPMAAHEASSLYSEEKAKLLREMMAKIEDKNEVLDQFMDSMQLDPETVDNL DAYSHIPPQ

LMEKCAALSVRPDTPVRNLVQSMQVLSGVFTDVEASLKDIRDLLEEDELLEQKFQEAVGQA  
GAISITSKAELAEVRREWAKYMEVHEKASFNTSELHRAMNLHVGNLRLLSGPLDQVRAAL  
PTPALSPEDKAVLQNLKRILAKVQEMRDQVRSLEQQQLRELIQKDDITASLVTTDHSEMKK  
LFEEQLKKYDQLKVYLEQNLAQDRVLCALTEANVQYAAVRRVLSDLQKWNSTLQTLVA  
SYEAYEDLMKKSQEGRDFYADLESKVAALLERTQSTCQAREAAQQLLDRELKKKPPPRP  
TAPKPLLPRREESEAVEAGDPPEELRSLPPDMVAGPRLPDTFLGSATPLHFPPSPFPSST  
GPGPHYLSGPLPPGTYSQPTQLIQPRAPGPHAMPVAPGPALYPAPAYTPELGLVPRSSPQ  
HGVVSSPYVGVGPAPPVAGLPSAPPPQFSGPELAMAVRPATTTVDSIQAPIPSHTAPRPN  
PTPAPPPPCFPVPPQPLPTPYTPAGAKQPIPAQHFFSSGIPAGFPAPRIGPQPQPHPQ  
PHPSQAFGPQPPQQLPLQHPHLFPPQAPGLLPPQSPYPYAPQPGVLGQPPPPLHTQLYP  
GPAQDPLPAHSGALFPSPGPPQPPHPLAYGPAPSTRPMGPQAAPLTIRGPSSAGQSTP  
SPHLVPSPAPSPGPGVPVPRPPAAEPPPCLLRRGAAAADLLSSSPESQHGGTQSPGGGQPL  
LQPTKVDAAEGRRPQALRLIERDPYEHPERLRQLQQELEAFRGQLGDVGALDTVWRELQD  
AQEHDARGRSIAIARCYSKKNRHQDVMFYDYSNRVLRSGKDDYINASCVEGLSPYCPPLV  
ATQAPLPGTAADFWMVHEQKVSIVMLVSEAEKQKVARYFPTERGQPMVHGALSLAL  
SSVRSTETHVERVLSLQFRDQSLKRSVLHLHFPTWPELGLPDSPSNLLRFIQEVHAHYLH  
QRPLHTPIIVHCSSGVGRTGAFALLYAAVQVEEAGNGIPELPQLVRRMRQQRKHMLQEKL  
HLRFCYEAVVRHVEQVLQRHGVPPPCPLASASISQKNHLPQDSQDLVLGGDVPISIIQA  
TIAKLSIRPPGGLESPVASLPGAEPGLPPASLPESTPIPSSSPPLSSPLPEAPQPKE  
EPPVPEAPSSGPPSSSELLASLTPEAFSLDSSLRGKQRMKHNFLQAHNGQGLRATRPS  
DDPLSLLDPLWTLNKT

>sp|P26045|PTN3\_HUMAN Tyrosine-protein phosphatase non-receptor type 3 OS=Homo sapiens  
GN=PTPN3 PE=1 SV=2

MTSRLRALGGRINNIRTSELPKEKTRSEVICSIHFLDGVVQTFKVTQKDTGQVLLDMVHN  
HLGVTEKEYFGLQHDDSDVSPRWLEASKAIRKQLKGGFPCTLHFRVRFFIPDPNTLQQE  
QTRHLYFLQLKMDICEGRLTCPLNSAVVLASYAVQSHFGDYNSSIHPGYLSDSHFIPDQ  
NEDFLTKEVSLHEQHSLGKQSEAESCYINIARTLDFYGVELHSGRDLHNLDMIGIASAG  
VAVYRKYICTSFYPWVNLKISFKRKKFFIHQRQKQAESREHIVAFNMLNYRSCKNLWKS  
CVEHHTFFQAKKLLPQEKNVLSQYWTMGSRNTKKSNNQYCKKVIIGMVWNPAMRRSLSV  
EHLETKSLPSRSPPIPTNWRSPRLRHEIRKPRHSSADNLNEMTYITETEDVFYTYKGS  
APQSDSEVSQNRSPHQESLENNPAQSYLTQKSSSVSPSSNAPGSCSPDQVDDQQLDD  
FHRVTKGGSTEDASQYYCDKNDNGDSYLVLRITPDEDGKFGFNLKGGVDQKMPLVVSRI  
NPESPADTCIPKLNEDQIVL INGRDISEHTDQVVMFIKASRESHSRELALVIRRAVR  
SFADFKSEDELNLQFPFAIFPMCPEGDTLEGSMALKKGLESQTVLIQFEQLYRKKPGL  
AITFAKLPQNLDKNRYKDVLPYDTRVLLQGNEDYINASYVNMEIPAANLVNKYIATQGP  
LPHTCAQFWQVVDQKLSLIVMLTTLTERGRTKCHQYWPDPDVMNHGGFHIQCQSEDCT  
IAYVSREMLVTNTQTGEEHTVTHLQYVAWPDHGVDPDSSDFLEFVNYVRSRVDSEPVLV  
HCSAGIGRTGVLVTMETAMCLTERNLPIYPLDIVRKMRDQRAMMVQTSSQYKFVCEAILR  
VYEEGLVQMLDPS

>sp|P35236|PTN7\_HUMAN Tyrosine-protein phosphatase non-receptor type 7 OS=Homo sapiens  
GN=PTPN7 PE=1 SV=3

MVQAHGGRSRAQPLTSLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRSLGAVEP  
ICSVNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHA  
SKDRYKTILPNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVYIATQGPMPNTVSDFW

EMVWQEEVSLIVMLTQLREGKEKCVHYWPTEEEYGPFGIRIQDMKECPEYTVRQLTIQY  
QEERRSVKHILFSAWPDHQTPEAGPLRLVAEVEESPETAHPGPIVVHCSAGIGRTGC  
FIATRIGCQQLKARGEVDILGIVCQLRLDRGGMIQTAEQYQLHHTLALYAGQLPEEPSP

>sp|P18433|PTPRA\_HUMAN Receptor-type tyrosine-protein phosphatase alpha OS=Homo sapiens  
GN=PTPRA PE=1 SV=2

MDSWFILVLLGSLICVSANNATTVAPSVGITRLINSSTAEPVKEEAKTSNPTSSLTSL  
VAPTFSPNITLGPTYLTTVNSSSDSDNGTTRTASTNSIGITISPNGTWLPDNQFTDARTEP  
WEGNSSTAATTPETFPPSDETPIIAVMVALSSLLVIVFIIIVLYMLRFKKYKQAGSHSNS  
KQAGSHSNSFRLSNGRTEDVEPQSVPLARSPSTNRKYPPLPVDKLEEEINRRMADDNKL  
FREEFNALPACPIQATCEAASKEENKEKNRYVNILPYDHSRVHLLTPVEGVPDSYINASF  
INGYQEKKNFIAAQGPKEETVNDFFWRMIWEQNTATIVMVTNLKERKECKCAQYWPDPQGCW  
TYGNIRVSVEDVTVLVDYTVRKFCIQQVGDMTRNKPQRLITQFHFTSWPDFGVPFPTIGM  
LKFLKKVKACNPQYAGAIVVHCSAGVGRGTGFVVIDAMLMMHTERKVDVYGFVSRIRAQ  
RCQMVQTDQMYYVFIYQALLEHYLYGDTLEVTSLLEHLQKIYNKIPGTSNNGLEEEFKKL  
TSIKIQNDKMRTGNLPANMKKNRVLQIIPYEFNRVIIPVKRGEENTDYVNASFIDGYRQK  
DSYIASQGPLLHTIEDFWRMIWEWKSCSIVMLTELEERGQEKCAQYWPSDGLVSYGDITV  
ELKKEEECESYTVRDLVTNTRENKSRQIRQFHFHGWPEVGIPSDGKGMISIIAAVQKQQ  
QQSGNHPITVHCSAGAGRTGTFCALSTVLERVKAEGILDVFQTVKSLRLQRPHMVQTLEQ  
YEFQYKVVQEYIDAFSDYANFK

>sp|Q16849|PTPRN\_HUMAN Receptor-type tyrosine-protein phosphatase-like N OS=Homo sapiens  
GN=PTPRN PE=1 SV=1

MRRPRRPGGLGGSGGLRLLCLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFG  
QCQVGVGQARPLLQVTSPVLQRLQGVLRQLMSQGLSWHDDLTYQVISQEMERIPRLRPPE  
PRPRDRSGLAPKRPGPAGELLLQDIPTGSAPAAQHRLPQPPVGKGGAGASSLSPLQAE  
LPPLLEHLLPPPPHPSLSYEPALLQPYLFHQFGSRDGSRVSESGPMVSVGPLPKAEA  
PALFSRTASKIFGDHPGHSYGDLPGPSAQLFQDSGLLYLAQELPAPSRARVPRLPEQG  
SSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAAQLRLAAVLAGYGVELRQLTPEQLSTL  
LTLLQLLPKGAGRNPGGVNVGADIKKTMGPVEGRDTAELPARTSPMPGHPTASPTSSE  
VQQVSPVPSSEPPKAARPPVTPVLEKKSPGQSQPTVAGQPSARPAEEYGYIVTDQKP  
LSLAAGVKLLEILAEHVMSSGSFINISVVGPAITFRIRHNEQNLSLADVTQQAGLVKSE  
LEAQTGLQILQTGVGQREAAAAPLQTAHSTSPMRVLLTLVALAGVAGLLVALAVALCV  
RQHARQQDKERLAALGPEGAHGDITFEYQDLCRQHMAKSLFNRAEGPPEPSRVSSVSSQ  
FSDAAQASPSHSTPSWCEEPAQANMDISTGHMILAYMEDHLNRDRLAKEWQALCAYQ  
AEPNTCATAQGEENIKNRHPDFLPYDHARIKLVESPSRSDYINASPIIEHDPRMPAY  
IATQGPLSHTIADFWMVWESGCTIVMLTPLVEDGVKQCDRYWPDEGASLYHYEVNLV  
SEHIWCEDFLVRSFYLKNVQTQETRTLQFHFLSWPAEGTPASTRPLLDFFRKVNKCVRG  
RSCPIIVHCSAGAGRTGTIILDMVLNRMAKGVKEIDIAATLEHVRDQRPGLVRSKDQFE  
FALTAAEEVNAILKALPQ

>sp|Q9NZH5|PTTG2\_HUMAN Securin-2 OS=Homo sapiens GN=PTTG2 PE=2 SV=2

MATLIYVDKEIGEPGTRVAAKDVLKLESRPSIKALDGISQVLTTRRFKTYDAPSALPKAT  
RKALGTVNRATEKSVKTNPRKQKQPSFSAKKMTEKTVTKSSVPASDDAYPEIEKFFPF  
NLLDFESFDLPEERQIAHLPLSGVPLMILDEEGELEKLFQLGPPSPVKMPSPWECNLLQ  
SPSSILSTLDVELPAVCYDIDI

>sp|P53801|PTTG\_HUMAN Pituitary tumor-transforming gene 1 protein-interacting protein  
OS=Homo sapiens GN=PTTG1IP PE=1 SV=1

MAPGVARGPTYWRLRLGGAALLLLIPVAAAQEPGAACSQNTNKTCEECLKNVSLWC  
NTNKACLDYPVTSVLPPASLCKLSSARWGVWCWNFEALIIITMSVVGGLLLGIAICCCCC  
CRRKRSRKPDRESEKAMREREERRIRQEERRAEMKTRHDEIRKKYGLFKEENPYARFENN

>sp|Q9UHX1|PUF60\_HUMAN Poly(U)-binding-splicing factor PUF60 OS=Homo sapiens GN=PUF60  
PE=1 SV=1

MATATIALQVNGQQGGGSEPAAAA VVAAGDKWKPPQGTDSIKMENGQSTA AKLGLPPLT  
PEQQEALQKAKKYAMEQSIKSVLVKQTI AHQQQQLTNLQMAAVTMGFGDPLSPLQSMAAQ  
RQRALAIMCRVYVGSIIYELGEDTIRQAFAPFGPIKSIDMSWDSVTMKHKGFAFVEYEV  
EAAQLALEQMNSVMLGGRNIKVGRPSNIGQAQPIIDQLAEERAFNRIYVASVHQDLSDD  
DIKSVFEAFGKIKSCTLARDPTTGKHKG YGFIEYEKAQSSQDAVSSMNLFDLGGQYLRVG  
KAVTPPMPLLTPATPGGLPPAAAVAAAAATAKITAQEAVAGAAVLGTLGTPGLVSPALTL  
AQPLGTLPAQVMAAQA PGVITGVTPARPIPV TIPSVGVVNPILASPPTLGLLEPKKEKE  
EEELFPESERPEMLSEQEHMSISGSSARHVMQKLLRKQESTVMVLRNMVDPKIDDDLE  
GEVTEECGKFGAVNRV I IYQEKQGEEEDAEIIVKIFVEFSIASETHKAIQALNGRWFAGR  
KVVAEVDYDQERFDNSDLA

>sp|Q14671|PUM1\_HUMAN Pumilio homolog 1 OS=Homo sapiens GN=PUM1 PE=1 SV=3

MSVACVLKRKAVLWQDSFSPHLKHH PQEPANPNMPVVL TSGTGSQAQPQPAANQALAAGT  
HSSPVPGSIGVAGRSQDDAMVDYFFQRQHGEQLGGGGSGGGGYNNSKHRWPTGDNIAEH  
QVRSMDELNHD FQALALEGRAMGEQLLPGKKFWETDESSKDGPKGIFLGDQWRDSAWGTS  
DHSVSQPI MVQRRPGQSFHVNSEVNSVLSPRSESGGLGVSMEYVLSSSPGDSCLRKGGF  
GPRDADSDENDKGEKKNGKTFDGD KLDLKEEGDVM DKTNGLPVQNGIDADV KDFSRTPG  
NCQNSANEVDLLGPNQNGSEGLAQLTSTNGAKPVEDFSNMESQSVPLDPMEHVGMEPLQF  
DYSGTQVPVDSAAATVGLFDYNSQQQLFQRPNALAVQQLTAAQQQQYALAAHQPHIGLA  
PAAFPNPYIIISAAPPGTDPYTAGLAAAATLGPAVVPHQYYGVTPWGVYPASLFQQQAAA  
AAAATNSANQQTTPQAQQGQQQLRGGASQRPLTPNQNGGQQTDPLVAAA AVNSALAFG  
QGLAAGMPGYPV LAPAAYDQTGALVVNAGARNGLGAPVRLVAPAVI ISSSAAQAAVAA  
AAASANGAAGGLAGTTNGPFRPLGTQQPQPQQPNNNLASSSFYGNNSLNSNSQSSSL  
FSQGSAPANTSLGFGSSSLGATLGSALGGFGTAVANSNTGSGSRRDSL TGSSDLYKRT  
SSSLTPIGHSFYNGLSFSSSPGPVGMPLPSQGP GHSQTPPPSLSSHGSSSLNLGGLTNG  
SGRYISAAPGA EAKYRSASSASSL FSPSSTLFSSSRLRYGMSDVMPSGRSRLLED FRNNR  
YPNLQLREIAGHIMEFSQDQHGSRFIQLKLERATPAERQLVFNEILQAAYQLMVDVFGNY  
VIQKFFEFGSLEQKLALAEIRGHVLSLALQMYGCRVIQKALEFIPSDQQNEMVRELDGH  
VLKCKVDQNGNHVVKCIECVQPQSLQFIIDAFKGQVFALSTHPYGCRVIQRILEHCLPD  
QTLPILEELHQHTEQLVQDQYGNVVIQHVLEHGRPEDKSKIVAEIRGNVLVLSQHKFASN  
VVEKCVTHASRTERAVLIDEVCTMNDGPHSALYTMMDQYANYVVQKMIDVAEPGQRKIV  
MHKIRPHIATLRKYTYGKHILAKLEKYYMKNGVDLGPICGPPNGII

>sp|Q15397|PUM3\_HUMAN Pumilio homolog 3 OS=Homo sapiens GN=PUM3 PE=1 SV=3

MEVKGKKQFTGKSTKTAQEKNRFHKNDSGSSKTFPTRKVAKEGGPKVTSRNF EKSI TKL  
GKKGVKQFKNKQQGDKSPKNKFQ PANKFNKKRKFQPDGRSDESAKKPKWDDFKKKKKEL  
KQSRQLSDKNTYDIVRAKQMWELLRKDCDKEKRVKLMSDLQKLIQGKIKTIAFAHDST  
RVIQCYIQYGNEEQRKQAFEELRDDLVLSKAKYSRNI VKKFLMYGSKPQIAEII RSFKG  
HVRKMLRHAEASAIVEYAYNDKAILEQRNMLTEELYGNTFQLYKSADHRTL DKVLEVQPE

KLELIMDEMKGILTPMAQKEAVIKHSLVHKVFLDFFTYAPPKLRSEMIEAIREAVVYLAH  
THDGARVAMHCLWHGTPKDRKIVKTMKTYVEKVANGQYSHLVLLAAFDICDDTKLVKQI  
IISEIISLSPSIVNDKYGRKVLVLLSPRDPAAHTVREIIEVLQKGDGNAHSSKDDTEVRRR  
ELLESISPALLSYLQEAHQEVVLDKSACVLVSDILGSATGDVQPTMNAIASLAATGLHPG  
GKDGEHLIAEHPAGHLVLKWLIEQDKMKENGREGCFAKTLVEHVMKNLKSWSVNRGA  
IILSSLLQSCDLEVANKVKAALKSLIPTLEKTKSTSKGIEILLEKLS

>sp|P22234|PUR6\_HUMAN Multifunctional protein ADE2 OS=Homo sapiens GN=PAICS PE=1 SV=3

MATAEVLNIGKKLYEGKTKVEYELLDSPGKVLLQSKDQITAGNAARKNHLEGKAAISNKI  
TSCIFQLLQEAGIKTAFTRKCGETAFAIPQCEMPIEWVCRRITGSFLKRNPGVKEGYK  
FYPPKVELFFKDDANNDPQWSEEQLIAAKFCFAGLLIGQTEVDIMSHATQAIFFEILEKSW  
LPQNCTLVDMKIEFGVDVTKEIVLADVINDSWRLWPSGDRSQKDKQSYRDLKEVTPE  
GLQMVKNFEWVAERVELLLKSESQCRVVLMGSTSDLGHCEKIKKACGNFGIPCELRVT  
SAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNTAYPVISCPPLTPDWGVQ  
DVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVWSKLRASILNTWISLKQADKKI  
RECNL

>sp|P31939|PUR9\_HUMAN Bifunctional purine biosynthesis protein PURH OS=Homo sapiens  
GN=ATIC PE=1 SV=3

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEM  
LGGRVKTLHPAVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEA  
VEQIDIGGVTLRAAAKNHARVTVVCEPEDYVVVSTEMQSSESKDTSLETRRLALKAF  
HTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPKLPITVLNGAPGFNL  
CDALNAWQLVKELKEALGIPAAASFHKVSPAGAAVGIPLSEDEAKVCMVVDLYKTLTPIS  
AAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEALTILSKKKNG  
NYCVLQMDQSYKPDENEVRTLFGHLHSQKRNGVVDKSLFSNVVTKNKDLPESALRDLIV  
ATIAVKYTSNSVCYAKNGQVIGIGAGQQSRIHCTRLAGDKANYWWLRHHPQVLSMKFKT  
GVKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEVPELLTEAEKKEWVEKLTEVSISSDA  
FFPFRDNVDRAKRSKVAYIAAPSGSAADKVVEACDELGIILAHTNLRLFHH

>sp|P17812|PYRG1\_HUMAN CTP synthase 1 OS=Homo sapiens GN=CTPS1 PE=1 SV=2

MKYILVTGGVISGIGKGIASSVGTLKSCGLHVTSIKIDPYINIDAGTFSPYEHGEV  
LDDGGEVDLDLGNRYERFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHITDA  
IQEWVMRQALIPVDEEDGLEPQVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFCHV  
SLVPQPSSTGEQKTKPTQNSVRELRLGLSPDLVVCRCNPLDTSVKEKISMFCHEPEQ  
VICVHDVSSIYRVPLLLLEEQGVVDYFLRRDLPIERQPRKMLMKWKEMADRYDRLLTCS  
IALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEEPVRVYHEAWQK  
LCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLGWQDAN  
STEFDPPTSHPVVDMPEHNPGQMGGTMRLGKRRTLFQTKNSVMRKLYGDADYLEERHRH  
RFEVNPVWKKCLEEQGLKFVGQDVEGERMEIVELEDHPFFVGQYHPEFLSRPIKPSPPY  
FGLLLASVGRLSHYLQKGCRLSPRDTYSDRSGSSPDSEITELKFPSINH

>sp|P14927|QCR7\_HUMAN Cytochrome b-c1 complex subunit 7 OS=Homo sapiens GN=UQCRB PE=1  
SV=2

MAGKQAVSASGKWLDGIRKWYYNAAGFNKLGLMRDDTIYEDEDVKEAIRRLPENLYNDRM  
FRIKRALDLNLKHQILPKEQWTKYEEENFYLEPYLKEVIRERKEREWEAKK

>sp|Q86UN2|R4RL1\_HUMAN Reticulon-4 receptor-like 1 OS=Homo sapiens GN=RTN4RL1 PE=1 SV=1

MLRKGCCVELLLLLVAAELPLGGGCPDVCYAPMTVSCQAHNFAAIEGIPVDSERV

LQNNRIGLLQPGHFSPAMVTLWIYSNNITYIHPSTFEGFVHLEELDLGDNRLRTLAPET  
FQGLVKLHALYLYKCGLSALPAGVFGGLHSLQYLYLQDNHIEYLQDDIFVDLVNLSHLFL  
HGNKLWSLGPPTFRGLVNLDRLLLHENQLQVHHKAFHDLRRLTTLFLFNNSLSELQGEC  
LAPLGALEFLRLNGNPWDCGCRARSLWEWLQRFRGSSSAVPCVSPGLRHGQDLKLLRAED  
FRNCTGPASPHQIKSHTLT TTDRAARKEHHSHPGPTRSKGHPHGP RPGRKPGKNCTNPR  
NRNQISKAGAGKQAPELPDYAPDYQHKFSFDIMPTARPKRKKGKARRTPIRAPSGVQQAS  
SASSLGASLLAWTLGLAVTLR

>sp|Q9H5N1|RABE2\_HUMAN Rab GTPase-binding effector protein 2 OS=Homo sapiens GN=RABEP2  
PE=1 SV=2

MAAAPVAADDDERRRRPGAALED SRSQEGANGEAESGELSRLRAELAGALAEMETMKAV  
AEVSESTKAEAAVAVQRQCQEEVASLQAILKDISSYEAQITALKQERQQQQQDCEEKER  
ELGRLKQLLSRAYPLDSLEKQMEKAHEDSEKLREIVLPMEKEIEELKAKLLRAELIQEI  
QRRPRHAPSLHGSTELLPLSRDPSPPLEPLEELSGDGGPAAEFAHNCDD SASISSFSLG  
GGVGSSSSSLPQSRQGLSPEQEETASLVSTGTLVPEGIYLP PPGYQLVPDTQWEQLQTEGR  
QLQKDLESVSRERDELQEGLRRSNEDCAKMQVLLAQVQNSEQLLRTLQGTVSQAQERVQ  
LQMAELVTTHKCLHHEVKRLNEENQGLRAEQLPSSAPQGSQQEQGEEESLPSSVP ELQQL  
LCCTRQEARARLQAQEHGAERLRIEIVTLREALEEETVARASLEGQLRVQREETE VLEAS  
LCSLRTEMERVQQEQSKAQLPDLLSEQRAKVLRLQAELETSEVQRDFVRLSQALQVRLE  
RIRQAETLEQVRSIMDEAPLTDVRDIKDT

>sp|Q9UJ41|RABX5\_HUMAN Rab5 GDP/GTP exchange factor OS=Homo sapiens GN=RABGEF1 PE=1 SV=2

MVVVTGREPDSRRQDGAMSSSDAEDDFLEPATPTATQAGHALPLLPQERCAEFPALRGPP  
TQGACSSCVQRGPVLCHRAPPGAAGEHAATEGREGAPSVSGTHALLQRPLGADCGDRPAA  
CGPAEGPLCQAQVVSRRKMSLKSERRGIHVDQSDLLCKKGCYYGNPAWQGFC SKCWREE  
YHKARQKQIQEDWELAERVLLCCPGWSAMVQFQLTATSASWAQVILLQPPKWLGLQKLQ  
REEEAFASSQSSQGAQSLTFSKFEEKKTNEKTRKVTTVKKFFSASSRVGSKKEIQEAKA  
PSPSINRQTSIETDRVSKEFIEFLKTFHKTGQE IYKQTKLFEGMHYKRDLSIEEQSECA  
QDFYHNVAERMQTRGKERRFHVGQAGLELLTSGDPPASASQSAGNTGVEPPHPAVPPER  
VEKIMDQIEKYIMTRLYKYVFCPETTDDEKKDLAIQKRIRALRWVTPQMLCVPVNEDIPE  
VSDMVKAITDIIEMDSKRVRPRDKLACITKSKHIFNAIKITKNEPASADDFLPTLIYIV  
LKGNPPRLQSNIQYITRFCNPSRLMTGEDGYFTNLCCAVAFIEKLDAQSLNLSQEDFDR  
YMSGQTSRPRKQEAESWSPDACLGVKQMYKNLDLLSQLNERQERIMNEAKKLEKDLIDWTD  
GIAREVQDIVEKYPLEIKPPNQPLAAIDSENVENDKLPPPLQPQVYAG

>sp|Q06609|RAD51\_HUMAN DNA repair protein RAD51 homolog 1 OS=Homo sapiens GN=RAD51 PE=1  
SV=1

MAMQMQLLEANADTSVEEESFGQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAPKKEL  
INIKGISEAKADKILAEAAKL VPMGFTTATEFHQRRSEIIQITTGSKELDKLLQGGIETG  
SITEMFGEFRTGKTQICHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVAERYGL  
SGSDVLNDNVAYARAFNTDHQTQLLYQASAMMVESRYALLIVDSATALYRTDYSRGELSA  
RQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFAADPKKPIGGNIIAHASTTRL  
YLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKD

>sp|Q15109|RAGE\_HUMAN Advanced glycosylation end product-specific receptor OS=Homo  
sapiens GN=AGER PE=1 SV=1

MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKCKGAPKKPPQRLEWKLNTGRTEA  
WKVLSPPQGGGPWDSVARVLPNGSLFLPAVG IQDEGIFRCQAMNRNGKETKSNYRVRVYQI



PGKPEIVDSASELTAGVPNKVGTCVSEGSYPAGTLSWHLDGKPLVPNEKGVSVKEQTRRH  
PETGLFTLQSELMVTPARGGDPRTFSCSFSPGLPRHRALRTAPIQPRVWEPVPLEEVQL  
VVEPEGGAVAPGGTVTLTCEVPAQPSPQIHWMKDGVLPLPPSPVLILPEIGPQDQGTYS  
CVATHSSHGPQESRAVSISIIIEPGEEPTAGSVGGSGLTALALGILGGLGTAALLIGV  
ILWQRRQRERGEERKAPENQEEEEERAELNQSEEPEAGESSTGGP

>sp|Q9Y5P3|RAI2\_HUMAN Retinoic acid-induced protein 2 OS=Homo sapiens GN=RAI2 PE=1 SV=2

MDDLQSQNLSDMTDSPPALANNRLENGMAQLITTEAWNINSTDLVKKALVTVPAISILN  
PPAESQSGMALKVAATVLQPLCLGESPVVMP IHMQVEGSSAPELNPNGNATYVMTTQGPV  
QLPVVLEQHV FQHLSPLVLPQEAPCSSSTIHNNLFQGAEDPEAQPLDLRIPSQPQEP  
TLPFEAVLQNLFPSQGTLGPPPCQPPPGYAPVPPQPFSSPLSPLVPPATLLVPYPVIVPL  
PVPVPIPIPIIMPQSSESKFSSSFPPSSFG LHPFKGTQTPLEKDELKPF DILQPK EYF  
QLSRHTVIKMGSENEALDLSMKSVPLKAGEVSPP IFQEDAALDLSVAHRKSEPPPETL  
YDSGASVDSSGHTVMEKLPSGMEISFAPATSHEAPAMMDSHISSDAATEMLSQPNHPSG  
EVKAENNIEMVGESQAQKIVSVEDAVPTIFCGKIKGLSGVSTKNFSFKREDSVLQGYDI  
NSQGEESMGNAEPLRKP IKNRSIKLKKVNSQEIHMLPIKKQLATFFPRK

>sp|Q8NFJ5|RAI3\_HUMAN Retinoic acid-induced protein 3 OS=Homo sapiens GN=GPRC5A PE=1 SV=2

MATTVPDGCNRGLSKSYRLCDKAEAWGIVLETVATAGVVTSAFMLTLPILVCKVQDSN  
RRKMLPTQFLFLLGVLGIFGLTFAFIIGLDGSTGPTFRFLFGILFSICFSCLLAHAVSLT  
KLVRGRKPLSLLVILGLAVGFSVLVDVIAIEYIVLTMNRTNVNVFSELSAPRRNEDFVLL  
LTYVLFMLALTFLMSSFTFCGSFTGWKRHGAHIYLTMLLSIAIWWAVITLLMLPDFDRRW  
DDTILSSALAANGWVFLLAYVSPEFWLLTKQRNPM DYPVEDAFCKPQLVKKSYGVENRAY  
SQEEITQGFEETGDTLYAPYSTHFQLQNQPPQKEFSIPRAHAWPSPYKDYEVKKEGS

>sp|O60894|RAMP1\_HUMAN Receptor activity-modifying protein 1 OS=Homo sapiens GN=RAMP1  
PE=1 SV=1

MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWG  
RTIRSYRELADCTWHMAEKLGCWFNPNAEVD RFFLAVHGRYFRSCPISGRAVRDPPGSILY  
PFIVVPITVTLLVTALVVWQSKRTEGIV

>sp|P43487|RANG\_HUMAN Ran-specific GTPase-activating protein OS=Homo sapiens GN=RANBP1  
PE=1 SV=1

MAAAKDTHEDHDTSTENTDESNDHPQFEP IVSLPEQEIKTLEED EEEELFKMRAKLFRFAS  
ENDLPEWKERGTGDVKLLKHKEKGAIRLLMRD KTLKICANH YITPM MELKPNAGSDRAW  
VWNTHADFADEC PKPELLAIRFLNAENAQFKTKFE ECRKEIEEREKKAGSGKNDHAEKV  
AEKLEALS VKETKEDAE EKQ

>sp|P62834|RAP1A\_HUMAN Ras-related protein Rap-1A OS=Homo sapiens GN=RAP1A PE=1 SV=1

MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDCQCML EILD TAG  
TEQFTAMRDLYMKNQG FALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDL  
EDERVVGKEQGQNLARQWCNCAFLESSAKSKIN VNEIFYDLVRQINRKTPVEKKKPKKKS  
CLLL

>sp|C9J798|RAS4B\_HUMAN Ras GTPase-activating protein 4B OS=Homo sapiens GN=RASA4B PE=3  
SV=2

MAKRSSLYIRIVEGKNLPAKDITGSSDPYICVKVDNEPIIRTATVWKTLCPFWGEEYQVH  
LPPTFHAVAFYVME DALSRDDVIGKVCLTRDTIASHPKGFGSWAHLTEVDPDEEVQGEI  
HLRLEVWPGARACRLRCVLEARDLAPKDRNGTSDPFVRVRYKGR TRETSIVKKSCYPRW  
NETFEFELQEGAMEALCVEAWDWDLVSRNDFLGKVVIDVQRLRVVQEEGW FRLQPDQSK

SRRHDEGNLGSLLQLEVRLRDETVLPSSYYQPLVHLLCHEVKLGMPGQGLIPLIEETTST  
ECRQDVATNLLKLFLGQGLAKDFDLDFQLELSRTSETNTLFRSNSLASKSVESFLKVAG  
MQYLHGVLGPIINKVFEEKKYVELDPSKVEVKDVGCGLHRPQTEAEVLEQSAQTLRAHL  
GALLSALSRSVRACPAVVRATFRQLFRRVRERFPGAQHENVFPIAVTSFLCLRFFSPAIM  
SPKLFHLRERHADARTSRTLLLLAKAVQNVGNMDTPASRAKEAWMEPLQPTVHQGVAQLK  
DFITKLVDIEEKDELQRTLSLQAPPVKEGPLFIHRTKGKGPLMSSSFKKLYFSLTTEA  
LSFAKTPSSKKSALIKLANIRAAEKVEEKSFGGSHVMQVIYTDAGRPQTAYLQCKCVNE  
LNQWLSALRKVSINNTGLLGSYHPGVFRGDKWSCCHQKEKTGGCDKTRSRVTLQEWNDP  
LDHDLEAQLIYRHLLGVEAMLWERHRELSGGAEAGTVPTSPGKVPEDSLARLLRVLQDLR  
EAHSSSPAGSPSEPNCLELQT

>sp|P01116|RASK\_HUMAN GTPase KRas OS=Homo sapiens GN=KRAS PE=1 SV=1  
MTEYKLVVVGAGGVGKSALTIQLIQNHVDEYDPTIEDSYRKQVVIDGETCLLDILDTAG  
QEEYSAMRDQYMRGTGEGFLCVFAINNTKSFEDIHHYREQIKRVKDSQVPMVLVGNKCDL  
PSRTVDTKQAQDLARSYGIPFIETSAKTRQVEDAFYTLVREIRQYRLKKISKEEKTGPG  
VKIKKCIIM

>sp|Q8IXT5|RB12B\_HUMAN RNA-binding protein 12B OS=Homo sapiens GN=RBM12B PE=1 SV=2  
MAVVIIRLLGLPFIAGPVDIRHFFTGLTIPDGGVHIIGGEIGEAFIIFATDEDARRAISRS  
GGFIKDSSVELFLSSKAEMQKTIEMKRTDRVGRGRPGSGTSGVDSLNFIESVKEEASNS  
GYGSSINQDAGFHTNGTGHGNLRPRKTRPLKAENPYLFLRGLPYLVNEDDVRVFFSGLCV  
DGVIFLKHHDGRNNGDAIVKFASCVDASGGLKCHRSFMGSRFIEVMQGSEQQWIEFGNA  
VKEGDVLRSEEHSPPRGINDRHFRKRSHSKSPRRTRSRSPLGFIYVHLKNLSLSIDERDL  
RNFFRGTDLTDEQIRFLYKDENRTRYAFVMFKTLKDYNLTALSLHKTVLQYRPVHIDPISR  
KQMLKFIARYEKKRSGSLERDRPGHVSQKYSQEGNSGQKLCIYIRNFPFDVTKVEVQKFF  
ADFLAEDDIYLLYDDKGVGLGEALVKFKSEEQAMKAERLNRRRFLGTEVLLRLISEAQI  
QEFGVNFSVMSSEKMQARSQSREGRDHSFLFDSKDPIYSVGAFENFRHQLDLRQLDNF  
KHPQRDFRQPDHRPPEDFRHSSDFRFPPEDFRHSPEDFRRPPEEDFRRPSEEDFRRPWE  
EDFRRPPEDDFRHPREEDWRRPLEEDWRRPLEEDFRSPTEDFRQLPEEDFRQPPEEDLR  
WLPEEDFRRPPEEDWRRPPEEDFRRLQGEWRRPPEDDFRRPPEEDFRHSPEEDFRQSPQ  
EHFRRPPEQEHFRPPPEHFRPPPEHFRPPPEHFRPPPEHFRPPPEHFRPPPEHFRPPPEHFR  
RPPQEHRFRPPQEHRFRSREEDFRHPPDEDFRGPPDEDFRHPPEDEFRSPQEEDFRCPD  
EDFRQLPEEDLREAPPEPRLPDNFRPPGEDFRSPDDFRSHRPVNFGRPEGKDFGK  
HNMGSFPEGRFMPDPKINCGRVTPIKIMNLPFKANVNEILDFFHGYRIIPDSVSIQYN  
EQGLPTGEAIVAMINYNEAMAAIKDLNDRPVGPRKVKLTLL

>sp|Q8NDT2|RB15B\_HUMAN Putative RNA-binding protein 15B OS=Homo sapiens GN=RBM15B PE=1  
SV=3

MKRQSERDSSPSGRGSSSSAKRPREREREAEAGGRRAAHKASGGAKHPVPARARDKPRGS  
GSGGGGHRDGRGTGDANHRASSGRSSGSGAGGGGRGKASGDPGASGMSPRASPLPPPPP  
PPGAEPACPGSSAAAPYKTLTISSLPALPAEHLEDRLFHQFKRFGEISLRLSHTPELG  
RVAYVNRHPQDAREARQHALARQLLLYDRPLKVEPVYLRGGGSSRRSSSSAAASTPP  
PGPPAPADPLGYLPLHGGYQYKQSLSPVAAPPLREPRARHAAAFAALDAAAAAVGLSR  
ERALDYYGLYDDRGRPYGPAVCEEDLMPEDDQRATRNLFIGNLDHSVSEVELRRAFEKY  
GIIEEVVIKRPARGQGAYAFQNFQNLMAHRAKVAMSGRVIGRNPIKIGYGKANPTTRL  
WVGGLGPNTSLAALAREFDRFGSIRTIDHVKGDSFAYIQYESLDAAQAACAKMRGFPLGG  
PDRRLRVDFAKAEETRYQQYQPSPLPVHYELLTDGYTRHRNLADLVRDRTPPHLLYSD

RDRTFLEGDWTSPPSKSSDRRNSLEGYSRSVRSRSGERWGADGDRGLPKPWEERRKRRSLS  
SDRGRTHSPYEERSRTKSGGQQSERGSDRTPERSRKENHSSEGTKESSNSLSNSRHGA  
EERGHHHHHHEAADSSHGKKARDSENRHRTTEAEPKPLEEPKHETKCLKNLSEYAQTLQL  
GWNGLLVLKNSCFPTSMHILEGDQGVISSLLKDHTSGSKLTQLKIAQRLRLDQPKLDEVT  
RRIKQGSPNGYAVLLATQATPSGLGTEGMP TVEPGLQRRLLRNLSYLKQKQAAGVISLP  
VGGSKGRDGTGMLYAFPPCDFSQYLQSALRTLKGKLEEEH MVIVIVRDTA

>sp|Q9H082|RB33B\_HUMAN Ras-related protein Rab-33B OS=Homo sapiens GN=RAB33B PE=1 SV=1  
MAEEMESSLEASFSSSGAVSGASGFLPPARSRIFKIIVIGDSNVGKTCLTYRFCAGRFPD  
RTEATIGVDFRERAVEIDGERIKIQLWDTAGQERFRKSMVQHYYRNHVAVVFVYDMTNMA  
SFHSLPSWIEECKQHLLANDIPRILVGNKCDLRS AIQVPTDLAQKFADTHSMPLFETSAK  
NPNDNDHVEAIFMTLAHKLKSHKPLMLSQPPDNGIILKPEPKPAMTCWC

>sp|Q96DA2|RB39B\_HUMAN Ras-related protein Rab-39B OS=Homo sapiens GN=RAB39B PE=1 SV=1  
MEAIWLYQFRLIVIGDSTVGKSLIRRFTEGRFAQVSDPTVGVDFFSRLVEIEPGKRIKL  
QIWDTAGQERFSITRAYRNSVGGLLLFDITNRRSFQNVHEWLEETKVHVQPYQIVFVL  
VGHKCDLDTQRQVTRHEAEKLAAYGMKYIETSARDAINVEKAFTDLTRDIYELVKRGEI  
TIQEGWEGVKSGFVPNVVHSSEEVVKSERRCLC

>sp|Q15042|RB3GP\_HUMAN Rab3 GTPase-activating protein catalytic subunit OS=Homo sapiens  
GN=RAB3GAP1 PE=1 SV=3

MAADSEPESEVFEITDFTTASEWERFISKVEEVLNDWKLIGNSLGKPLEKGIFTSGTWEE  
KSDEISFADFKFVTHHYLVQESTDKEGKDELLEDVVPQSMQDLLGMNDFPPRAHCLVR  
WYGLREFVVIAPAAHSDAVLSESKCNLLSSVSIALGNTGCQVPLFVQIHHKWRMYVGE  
CQGPVVRTDFEMVHLRKVPNQYTHLSGLLDIFKSKIGCPLTLPVPSIAIRFTYVLQDWQ  
QYFWPQQPPDIDALVGGEVGGLEFGKLPGFACEDPISELHLATTWPHLTEGIIVDNDVYS  
DLDP IQAPHWSVRVRKAENPQCLLGDFVTEFFKICRRKESTDEILGRSAFEEEGKETADI  
THLSKLT EPASVPIHKLVSVMVHTAKKKIRKHRGVEESPLNNDVLNTILLFLFPDAVS  
EKPLDGTSTDNPPSESEDYLNQFKSAPSDSLTYKLALCLCMINFYHGGKGV AHL  
WQEFVLEMRFWRWENFLIPGLASGPPDLRCCLLHQKLQMLNCCIERKKARDEGKKSASD  
VTNIYPGDAGKAGDQLVPDNLKETDKEKGEVGKSWDSWSDSEEEFFECLSDTEELKGNGQ  
ESGKKGPKEMANLRPEGRLYQHGLTLLHNGEPLYIPVTQEAPAMTEDLLEEQSEVLAK  
LG TSAEGAHLRARMQSACLLSDMESFKAANPGCSLEDFVRWYSPRDYIEEEVIDEKG NVV  
LKGELSARMKIPSNMWVEAWETAKPIPARRQRRLFDDTREAEKVLHYLA IQKPADLARHL  
LPCVIHAAVLKVKEESLENISSVKI IKQIISHSSKVLHFPNPEDKKLEE I IHQITNVE  
ALIARARSLKAKFGTEKCEQEEEEKEDLERFVSCLEQPEVLVTGAGRGHAGRI IHKL FVN  
AQRAAAMTPPEEELKRMGSPEERRQNSVSDFPFPAGREFILRTTVPRPAPYSKALPQ RMY  
SVLTKEDFRLAGAFSSDTSFF

>sp|O75884|RBBP9\_HUMAN Putative hydrolase RBBP9 OS=Homo sapiens GN=RBBP9 PE=1 SV=2  
MASPSKAVIVPGNGGDVTTTHGWYGVVKELEKIPGFQCLAKNMPDPITARESIWLPFME  
TELHCDEKTIIIGHSSGAIAAMRYAETHRVYAIVLVSAYTSDLGDENERASGYFTRPWQW  
EKIKANCPIYVQFGSTDDPFLPWKEQQEVADRLET KLHKFTDCGHFQNT EFHELITVVK S  
LLKVPA

>sp|Q8TDY2|RBCC1\_HUMAN RB1-inducible coiled-coil protein 1 OS=Homo sapiens GN=RB1CC1 PE=1  
SV=3

MKLYVFLVNTGTTLTFTDELTVQTVADLKHA IQSKYKIAIQHQVLVNGGECMAADRRVC  
TYSAGTDTNPIFLFNKEMILCDRPPAIPKTTFTSTENDMEIKVEESLMPAVFHTVASRTQ

LALEMYEVAKKLCFCEGLVHDEHLQHGWAAITMANLEDCSNSYQKLLFKFESIYSNYLQ  
SIEDIKLKLTHLGTAVSVMKIPLECLTRHSYRECLGRDLSLPEHEDSEKAEMKRSTEL  
VLSPDMPRTTNESLLTSFPKSVEHVSPDTADAESGKEIRESQSTVHQDETTIDTKDGD  
LPFFNVSLLDWINVQDRPNDSVLRKCFDSMSRLDPRIIRPFIAECRQTIAKLDNQNMK  
AIKGLEDRLYALDQMIASCGRLVNEQKELAQGFLANQKRAENLKDASVLPDLCLSHANQL  
MIMLQNHRKLLDIKQKCTTAKQELANNLHVRLKWCCFVMLHADQDGEKLQALLRLVIELL  
ERVKIVEALSTVPQMYCLAVEVVRKMFIKHYREWAGALVKDGKRLYEAESKRESFGK  
LFRKSFLRNRLFRGLDSWPPSFACTQKPRKFDCELPDISLKDQLQSFQPCSEVQPFLRVP  
LLCDFEPLHQHVLALHNLVKAQSLDEMSQTITDLLSEQKASVSQTSPQSASSPRMESTA  
GITTTTSPRTPPPLTVQDPLCPAVCPLEELSPDSIDAHTFDFETIPHPNIEQTIHQVSLD  
LDLSAESPESDFMASVNEFVIEENLSSNPISDPQSPPEMMVESLYSSVINAIDSRRMQDT  
NVCGKEDFGDHTSLNVQLERCRVVAQDSHFSIQTIKEDLCHFRTFVQKEQCDFSNSLKCT  
AVEIRNIEKVKCSLEITLKEKHQKELSLKNEYEGKLDGLIKETEENENKIKKLGELV  
CLEEVLQNKDNEFALVKHEKEAVICLQNEKDQKLEMEMIMHSQNCIEKELKQSREIVLE  
DLKKLHVENDEKLQLLRAELQSLEQSHLKEEDTLQVRHIQEFQKVMTHRVSLLELKKE  
NQQIINQIQESHAIEIQEKEKQLQELKLKVSDDLSDTRCKLEVELALKEAETDEIKILLEE  
SRAQQKETLSLLEQETENLRTEISKLNQKIQDNNENYQVGLAELRTLMTIEKDQCISEL  
ISRHEESNILKAELNKVTSLHNQAFEIEKNLKEQIIEQLSKLDSSELSALERQKDEKITQ  
QEEKYEAIIQNLEKDRQKLVSSEQEQDREQLIQKLNCEKDEAIQTALKEFKLEREVVEKEL  
LEKVKHLENQIAKSPAIDSTRGDSSSLVAELQEKLQEEKAKFLEQLEEQEKRKNEEMQNV  
RTSLIAEQQTNFNTVLTREKMRKENIINDLSDKLKSTMQQQERDKDLIESLSEDRARLLE  
EKKKLEEEVSKLRSSSFVPSPYVATAPELYGACAPELPGESDRSAVETADEGRVDSAMET  
SMMSVQENIHMLSEEKQRIMLLERTLQLKEEENKRLNQRLMSQSMSSVSSRHSEKIAIRD  
FQVGDLVLIILDERHDNYVLFTVSPTLYFLHSESLPALDLKPGEGASGASRRPWVLGKVM  
EKEYCQAKKAQNRFKVPLGTFYRVKAVSWNKKV

>sp|Q9UBK7|RBL2A\_HUMAN Rab-like protein 2A OS=Homo sapiens GN=RABL2A PE=1 SV=1

MAEDKTKPSELDQGGYDADDNVKIIICLGDSAVGKSKLMEFLMDGFPQQQLSTYALTLYK  
HTATVDGKTIIVDFWDTAGQERFQSMHASYYHKAHACIMVFDIQRKVTYRNLSTWYTELR  
EFRPEIPCIVVANKIDDINVTQKSFNFQKFSPLPYFVSAADGTNVVKLFNDAILRAVSY  
KQNSQDFMDEIFQELNFSLEQEEEDVPDQEQSSSIETPSEEVASPHS

>sp|Q9Y388|RBMX2\_HUMAN RNA-binding motif protein, X-linked 2 OS=Homo sapiens GN=RBMX2  
PE=1 SV=2

MNPLTKVKLINELNEREVQLGVADKVSWHSEYKDSAWIFLGGLPYELTEGDIICVFSQYG  
EIVNINLVRDKKTGKSGKFCFLCYEDQRSTILAVDNFNGIKIKGRTIRVDHVSNYRAPKD  
SEEIDDVTRQLQEKGCARTPSPSLSESSEDEKPTKKHKKDKKEKKKKKKEKEKADREVQ  
AEQPSSSSPRRKTVEKDDTGPKKHSSKNSEKQKSEPREGQKLPSRTAYSQGAEDLER  
ELKKEKPKHEHSSSRREAREEKTRIRDRGRSSDAHSSWYNGRSEGRSYRSRSRDRKSH  
RHKRARRSRERESSNPDRWRH

>sp|O14949|QCR8\_HUMAN Cytochrome b-c1 complex subunit 8 OS=Homo sapiens GN=UQCRQ PE=1  
SV=4

MGREFGNLTRMRHVISYSLSPFEQRAYPHVFTKGIPNVLRRIRESFFRVVPQFVVFYLIY  
TWGTEEFERSKRKNPAAYENDK

>sp|Q9NXS2|QPCTL\_HUMAN Glutaminyl-peptide cyclotransferase-like protein OS=Homo sapiens  
GN=QPCTL PE=1 SV=2

MRSGGRGRPRLRLGERGLMEPLLPKRRLLPRVRLPLLLALAVGSFYTIWSGWHRRTE  
ELPLGRELRVPLIGSLPEARLRRVVGQLDPQRLWSTYLRPLLVVRTPGSPGNLQVRKFLE  
ATLRSLTAGWHVELDPFTASTPLGPVDFGNVATLDPRAARHLTLACHYDSKLFPPGSTP  
FVGATDSAVPCALLELAQALDLELSRAKKQAAPVTLQLFLDGEEALKEWGPKDSLYGS  
RHLAQLMESIPHSPGPTRIQAIELFMLLDLLGAPNPTFYSHFPRTVRWFHRLRSIEKRLH  
RLNLLQSHPQEVMYFQPGEPFGSVEDDHIPFLRRGVPVLHLISTPFPVAVWHTPADTEVNL  
HPPTVHNLCRILAVFLAEYLGL

>sp|Q9H0J4|QRIC2\_HUMAN Glutamine-rich protein 2 OS=Homo sapiens GN=QRICH2 PE=1 SV=1

MKDAAEELSFARVLLQRVDELEKLFKDREQFLELVSRKLSLVPGAEEVTMTWEELEQAI  
TDGWRASQAGSETLMGFSKHGGFTSLTSPEGLTSGDSTKQPSIEQALDSASGLGPDRTAS  
GSGGTAHPSDGVSSREQSKVPSGTGRQQQPRARDEAGVPRLHQSSTFQFKSDSDRHSRE  
KLTSTQPRRNARPGPVQQDLPLARDQPSSVPASQSQVHLRPDRRGLEPTGMNQPLVPAS  
TYPHGVVPLSMGQLGVPPPEMDDRELIPFVVDEQRMLPPSVPGRDQQGLELPSTDQHGLV  
SVSAYQHGMTPFGTDQRSMEPLGMDQRCV ISGMGQQGLVPPGIDQQGLTLPVVDQHGLV  
LPFTDQHGLVSPGLMPI SADQQGFVQPSLEATGFIQPGTEQHDLIQSGRFQRALVQRGAY  
QPGLVQPGADQRGLVRPGMDQSGLAQPGADQRGLVWPGMDQSGLAQPGRDQHGLIQPGTG  
QHDLVQSGTGQGVLVQPGVDQPGMVQPGRFQRALVQPGAYQPGLVQPGADQIDVVQPGAD  
QHGLVQSGADQSDLAQPGAVQHGLVQPGVDQRLAQPRADHQRLVPPGADQRGLVQPGA  
DQHGLVQPGVDQHGLAQPGEVQRSLVQPGIVQRGLVQPGAVQRGLVQPGAVQRGLVQPGV  
DQRGLVQPGAVQRGLVQPGAVQHGLVQPGADQRGLVQPGVDQRLVQPGVDQRLVQPGM  
DQRGLIQPGADQPGLVQPGAGQLGMVQPGIGQQGMVQPQADPHGLVQPGAYPLGLVQPGA  
YLHDLQSGTYPRGLVQPGMDQYGLRQPGAYQPGLIAPGTKLRGSSSTFQADSTGFISVRP  
YQHGMVPPGREQYGVSPLLASQGLASPGIDRRSLVPPETYQQGLMHPGTDQHSP IPLST  
GLGSTHPDQQHVASPGGEHDQVYPDAAQHGHAFSLFDSHDSMYPGYRGPGYLSADQHGG  
EGLDPNRTASDRHGIPAQKAPGQDVTLFRSPDSVDRVLESEGSEVSSEVLSERRNSLRRM  
SSSFPTAVETFHLMGELSSLYVGLKESMKDLDEEQAGQTDLEKIQFLLAQMVKRTIPPEL  
QEQLKTVKTLAKEVWQEKAKVERLQRILEGEGNQEAGKELKAGELRLQLGVLRVTVADIE  
KELAEELRESQDRGAAMENSVSEASLYLQDQLDKLRMIIESMLTSSSTLLSMSMAPHKAH  
TLAPGQIDPEATCPACSLDVSHQVSTLVRRYEQLQDMVNSLAVSRPSKKAKLQRQDEELL  
GRVQSAILQVQGDCEKLNITTSNLIEDHRQKQKD IAML YQGLEKLEKEKANREHLEMEID  
VKADKSALATKVS RVQFDATTEQLNHMMQELVAKMSGQE QDWQKMLDRLLTEM DNKLDRL  
ELDPVKQLLED RWKSLRQQLRERPPLYQADEAAA MRRQLLAHFHCLSCDRPLETPVTGHA  
IPVTPAGPGLPGHHSIRPYTVFELEQVRQHSRNLKLSAFPRGDLAQMEQSVGRLRSMHS  
KMLMNI EKVIHFGGSTKASSQIIRELLHAQCLGSPCYKRVTDMADYTYSTVPRRCGGSH  
TLTPYHRSRPQHLPRLGPTYEEIQIAMKHDEVDILGLDGHIYKGRMDTRLPGILRKDSS  
GTSKRKSQQPRPHVHRPPSLSSNGQLPSRPQSAQISAGNTSER

>sp|A8MTL3|R212B\_HUMAN RING finger protein 212B OS=Homo sapiens GN=RNF212B PE=2 SV=1

MDWFHCNQCFRKDGAHFVVTSCGHIFCKKCVTLEKCAVCGTACKHLALSDNLKPQEKMF  
KSPVETALQYFSHISQVWSFQKKQTDLLIAFYKHRITKLETAMQEAQALVSQDKELSVL  
RKENGELKKFLAILKESPSRYQGSRSITPRPVGITSPSQSVTPRPSFQHSSQVVSRS  
ESIPYREAGFGSLGQGRGLQGRRTPRDSYNETPSPASTHLSYRTSSASSGQGIFSRP  
SPNGHSGHTRVLTPNFAQRESTTTLESLSFQLPVLQTL YQQRRHMG LPSGREAWTTSR

>sp|PODJH9|RD3L\_HUMAN Protein RD3-like OS=Homo sapiens GN=RD3L PE=4 SV=1

MPLFGWMKWPKNDSYKPTHYPGSDIVTKTLRELKWHLKERERLIQEIENEQVKKKTGVD

YNWLRNYQNPHTTIPVTEQRQLEVLCSQVQPCQTGTILSRFREVLAENDVLPWEIVYIFK  
QVLKDFLSSSDRGSEQEDLEDSGSMDCSAPSVIQGDSSKRADKDEIPTISSYVDKNTKDR  
FPVFSHRIWNLPYYHPSS

>sp|Q8IZV5|RDH10\_HUMAN Retinol dehydrogenase 10 OS=Homo sapiens GN=RDH10 PE=1 SV=1  
MNIVVEFFVVTFKVLWAFVLAAARWLVRPKEKSVAGQVCLITGAGSGLGRLFALEFARRR  
ALLVLWDINTQSNEETAGMVRHIYRDLEAADAAALQAGNGEEEILPHCNLQVFTYTCDVG  
KRENVYLTAEVRKEVEGVSVLVNNAGVVS GHHLECPDELIERTMMVNCHAHFWTTKAF  
LPTMLEINHGHIVTVASSLGLFSTAGVEDYCASKFGVVG FHESLSHELKAAEKDG IKTTL  
VCPYLVDTG MFRGCRIRKEIEPFLPLKPDYCVKQAMKAILTDQPMICTPRLMYIVTFMK  
SILPFEAVVCMYRFLGADKCMYPFIAQRKQATNNNEAKNGI

>sp|Q9NYR8|RDH8\_HUMAN Retinol dehydrogenase 8 OS=Homo sapiens GN=RDH8 PE=1 SV=1  
MAAAPRTVLISGSSGIGLELAVQLAHDPPKKRYQVVATMRDLGKKETLEAAAGEALGQTL  
TVAQLDVCSDESAQCLSCIQGEVDVLVNNAGMGLVGPLEGLSLAAMQNVFDTNFFGAVR  
LVKAVLPGMKRRRQGHIVV ISSVMGLQGVIFNDVYAASKFALEGFFESLAIQLLQFNIFI  
SLVEPGPVVTEFEGKLLAQVMAEFPGTDPETLHYFRDLYLPASRKLFC SVGQNPQDVVQ  
AIVNVISSTRPPLRRQTNI RYSPLTTLKTVDSGSLYVRTTHRLLFRCPRLLNLGLQCLS  
CGCLPTRVRPR

>sp|P35243|RECO\_HUMAN Recoverin OS=Homo sapiens GN=RCVRN PE=1 SV=2  
MGNSKSGALSKEIILEELQLNTKFSEEELCSWYQSFLKDCPTGRITQQQFQSIYAKFFPDT  
DPKAYAQHVFERSFDNL DGTLDKFKEYVIALHMTTAGKTNQKLEWAFSLYDVGNGTISK N  
EVLEIVMAIFKMITPEDVKLLPDDENTPEKRAEKIWKYFGKND DDKLTEKEFIEGTLANK  
EILRLIQFEPQKVKEKMNA

>sp|O94761|RECQ4\_HUMAN ATP-dependent DNA helicase Q4 OS=Homo sapiens GN=RECQL4 PE=1 SV=1  
MERLRDVRERLQAWERAFRRQRGRPSQDDVEAAPEETRALYREYRTLKRTTGAGGGLR  
SSESLPAAAEAEPEPRCWGPHLNRAATKSPQPTPGRSRQGSVPDYGQRLKANLKGTLQAG  
PALGRRPWPLGRASSKASTPKPPGTGPVPSFAEKVSDEPPQLPEPQPRPGRQLHLQASLS  
QRLGSLDPGWLQRCHSEVPDFLGAPKACRPDLGSEESQLLIPGESAVLGPAGSQGPEAS  
AFQEVSIRVGSPQSSSGGEKRRWNEEPWESPAQVQQESSQAGPPSEGAGAVAVEEDPPG  
EPVQAQPPQPCSSPSNPRYHGLSPSSQARAGKAEGTAPLHIFPRLARHDRGNYVRLNMKQ  
KHVVRGRALRSRLLRKQAWKQKWRKKGECFGGGGATVTTKESCFLNEQFDHWAACPRPA  
SEEDTAVGPEPLVPSPQPVPVPSLDPTVLPLYSLGPSGQLAETPAEVFQALEQLGHQA  
FRPGQERAVMRILSGISTLLVLPTGAGKSLCYQLPALLYSRRSPCLTLVVSPLL SLMD DQ  
VSGLPPCLKAACI HSGMTRKQRESVLQKIRAAQVHVLMLTPEALVGAGGLPPAAQLPPVA  
FACIDEAHCLSQWSHNFRPCYLRVCKVL RERMGVHCFGLGTATATRR TASDVAQHLVAE  
EPDLHGPAVPPTNLHLSVSMRDRTDQALLTLLQGKRFQNLDSII IYCNRRREDTERIAALL  
RTCLHAAWVPGSGGRAPKTTAEAYHAGMCSRERRRVQRAFMQGQLRVV VATVAFGMGLDR  
PDVRAVLHLGLPPSFESYVQAVGRAGRDGQPAHCHLFLQPQGEDLRELRRHVHADSTDFL  
AVKRLVQRVPACTCTCTRPPEQEGAVGGERPVPKYPPQEAQLSHQAAPGPRRVC MGH  
ERALPIQLTVQALDMPEEA IETLLCYLELHPHHWLELLATTYTHCRLNCPGGPAQLQALA  
HRCPP LAVCLAQQLPEDPGQSSSVFEDMVKLVD SMGWELASVRRALCQLQWDHEPRTGV  
RRGTGVLVEFSELA FHLRSPGDLTAEKDQICDFLYGRVQARERQALARLRRTFQAFHSV  
AFPSCGPCLEQQDEERSTR LKDLLGRYFEEEEGQEPGGMEDAQGP EPQGARLQDWEDQVR  
CDIRQFLSLRPEEKFS SRAVARIFHGIGSPCYPAQVYGQDRRFWRKYLHLSFHALVGLAT  
EELLQVAR

>sp|Q6NUK4|REEP3\_HUMAN Receptor expression-enhancing protein 3 OS=Homo sapiens GN=REEP3  
PE=1 SV=1

MVSWMISR AVL VFGMLYPAYYSYKAVKTKNVKEYVRWMMYWIVFALYTVIETVADQTVA  
WFPLYELKIAFVIWLLSPYTKGASLIYRKFLHPLLSSKEREIDDIYVQAKERGYETMVN  
FGRQGLNLAATAAVTAAVKSQGAITERLRSFSMHDLTIIQGDEPVGQRPYQPLPEAKKKS  
KPAPSESAGYGIPLKDGEKTDEEAEGPYSDNEMLTHKGLRRSQSMKSVKTTKGRKEVRY  
GSLKYKVKRPPQVYF

>sp|Q6UW15|REG3G\_HUMAN Regenerating islet-derived protein 3-gamma OS=Homo sapiens  
GN=REG3G PE=1 SV=1

MLPPMALPSVSWMLLSCLILLCQVQGEETQKELPSPRISCPKGSKAYGSPCYALFLSPKS  
WMDADLACQKRPSGKLVSLSGAEGSFVSSLVRSISNSYSYIWIGLHDPTQGSEPDGDGW  
EWSSTDVMNYFAWEKNPSTILNPGHCGSLSRSTGFLKWKDYNCDAKLPYVCKFKD

>sp|Q8IYK8|REM2\_HUMAN GTP-binding protein REM 2 OS=Homo sapiens GN=REM2 PE=1 SV=2

MHTDLDTMDMDTETALCPSGSRRASPPGTPTEADATLLKKSEKLLAELDRSGLPSAP  
GAPRRRGSMPPVYPKHLRRAQAVDELWPPQASSSGSSDSLGSGEAAPAQKDGIKVMVLV  
GESGVGKSTLAGTFGGLQGDSAHEPENPEDTYERRIMVDKEEVTLVVYDIWEQGDAGGWL  
RDHCLQTGDAFLIVFSVTDRRSFSKVPETLLRLRAGRPHDLPVILVGNKSDLARSREVS  
LEEGRHLAGTSLCKHIETSAALHHNTRELFEGAVRQIRLRRGRNHAGGQRPDGSPGPA  
PPARRESLTKKAKRFLANLVPRNAKFFKQRSRSCHDLVL

>sp|P10745|RET3\_HUMAN Retinol-binding protein 3 OS=Homo sapiens GN=RBP3 PE=1 SV=2

MMREWLLMSVLLCGLAGPHTLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQAISHE  
ILSISDPQTLASVLTAGVQSSSLNDPRLVISYEPSTPEPPPQVPALTSLSSEEELLAWLQRG  
LRHEVLEGNVGYLRVDSVPQGQEVLSMMGEFLVAHVWGNLMGTSALVLDLRHCTGGQVSGI  
PYIISYLHPGNTILHVDTIYNRPSNTTTEIWTLPQVLGERYGADKDVVLTSSQTRGVAE  
DIAHILKQMRRAIVVGERTGGGALDLRKLRIGESDFFFTVPVSRSLGPLGGGSQTWEGSG  
VLPCVGTPAEQALEKALAILTLRSALPGVVHCLQEVLKDYTLVDRVPTLLQHLASMDFS  
TVVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPSWPAPDAAAEDSPGVAPELPEDEA  
IRQALVDSVFQVSVLPNGVGYLRFDSEFADASVLGVLAPYVLRQVWEPLQDTEHLIMDLRH  
NPGGPSSAVPLLLSYFQGEAGPVHLFTTYDRRTNITQEHFSHMELGPRYSTQRGVYLL  
TSHRTATAAEFAFLMQSLGWATLVGEITAGNLLHTRTVPLDTPEGSLALTPVLTFFID  
NHGEAWLGGGVPPDAIVLAEALDKAQEVLEFHQSLGALVEGTGHLLEAHYARPEVVGQT  
SALLRAKLAQAYRTAVDLESASQLTADLQEVSGDHRLLVFHSPGELVVEEAPPPPAV  
PSPEELTYLIEALFKTEVLPQQLGYLRFDAMAELETVKAVGPQLVRLVWQQLVDTAALVI  
DLRYNPGSYSTAIPLLCSYFFEAEPRQHLYSVFDRATSKVTEVWTLPPVAGQRYGSHKDL  
YILMSHTSGSAAEFAHTMQDLQRATVIGEPTAGGALSVGIYQVGSSPLYASMPTQMAMS  
ATTGKAWDLAGEPDIPTVMSEALSIAQDIVALRAKVPTVLQTAGKLVADNYASAELGAK  
MATKLSGLQSRYSRVTSEVALAEILGADLQMLSGDPHLKAHIPENAKDRIPGIVPMQIP  
SPEVFEELIKFSFHTNVLEDNIGYLRFDMFQDGGELLTQVSRLLVEHIWKKIMHTDAMIID  
MRFNIGGPTSSIPILCSYFFDEGPPVLLDKIYSRPDDSVSELWTHAQVVGERYGSKKSMV  
ILTSSVTAGTAEFTYIMKRLGRALVIGEVTSGGCQPPQTYHVDNTNLYLTIPTARSVGA  
SDGSSWEGVGVTPHVVVPAEEALARAKEMLQHNQLRVKRSPLQDHL

>sp|Q9HD89|RETN\_HUMAN Resistin OS=Homo sapiens GN=RETN PE=1 SV=1

MKALCLLLLVLGLLVSSKTLCSMEEAINNERIQEVAGSLIFRAISSIGLECQSVTSRGDL  
ATCPRGFAVTGCTCGSACGSWDVRAETTCHCQCAGMDWTGARCCRVQP

>sp|Q8N1G1|REX01\_HUMAN RNA exonuclease 1 homolog OS=Homo sapiens GN=REX01 PE=1 SV=3

MLRSTGFFRAIDCPYWSGAPGGPCRRPYCHFRHRGARGSGAPGDGGEAPPAAGLGYDPYN  
PELPKPPAQRENTLGLGEEPRPDVLELELVNQAI EAVRSEVELEQRRYRELLETTREHR  
SAEAPALAPRGPNASPTVGPDEDAFPLAFDYSPGSHGLLSPDAGYQPTLAAPAEPGSKY  
SLASLDRGQGRGGGGGGALEYVPAVSKPRRHSRPVPSGKYVVDNSRPPTDLEYDPLSNY  
SARHLSRASSRDERAAKRPRGSRGSEPYTPAPKKLCDPFGSCDARFSDSEDEAATVPGNE  
PTTASTPKARADPEIKATGQPPSKEGLEAEGGLRETKETAVQCDVGDLPQPPAKPASPA  
QVQSSQDGGCPKEGPKKKKTGAPPAPSCKDGAQGKDKTKDKGRGRPVVEKPRADKKGPQA  
SSPRRKAERPEGTKKKPSSATPVATSGKGRPDPRARRPSPTSGDSRPAAGRGPPLQLP  
DRKSTKAPSGKLVERKARSLDEGASQDAPKLKKRALSHADLFGESEDEAAGPGVPSVWP  
SALPSLSSDSDSDSSLGFEAQGPPKRLKASPPSPAPSSSSSSSSSTSSAGADVDS  
ALEKEVDFDSDPMEECLRIFNESTS VKTEDRGLARQPPKEEKSEEKLSGLTTLFPGQK  
RRISHLKSKQGQVEPPRRGPAVPPARPPTAQEVCYLRAQQAQRASASLLQAPARLAEKSP  
SVHISAPGEKRRIAHIPNRLAAAPTGA KRTLAASGSQSSNGPEPGGQQLKTRTLSGMAS  
KTTTTIIPKRIAHSPSLQSLKKPIIPKEFGGKVPTVIRQRYLNLFIEECLKFCTSNQEAI  
EKALNEEKVAYDRSPSKNIYLNVA VNTLKKLRGLAPSAVPGLSKTSGRRVVSHEVVLGGR  
LAAKTSFSLSRPSSPRVEDLKGAALYSRLREYLLTQDQLKENGYPFHPERPGGAIIFTA  
EEKRPKDSSCRTCCRCGTEYLVSSSGRCIRDEECYHWHGRLRRNRVAGGWETQYMCCSAA  
AGSVGCQVAKQHVQDGRKERLEGFVKTFEKELSGDTHPGIYALDCEMS YTTYGLELTRVT  
VVDTDVHVVDYTFVKPDNEIVDYNTRFSGVTEADLADTSVTLRDVQAVLLSMFSADTILI  
GHSLESDLALKVIHSTVVDTSVLFPHRLGLPYKRSRLNLMADYLRQIIQDNVDGHSSSE  
DAGACMHLVIWKVREDAKTKR

>sp|Q96P65|QRFP\_R\_HUMAN Pyroglutamylated RFamide peptide receptor OS=Homo sapiens GN=QRFP\_R PE=2 SV=2

MQALNITPEQFSRLLRDHNL TREQFIALYRLRPLVYTPELPGRAKLALVLTGVLIFALAL  
FGNALVFYVVTRSKAMRTVTNIFICSLALSDLLITFFCIPVTMLQNISDNWLGGAFICKM  
VPFVQSTAVVTEILTMTCIAVERHQGLVHPFKMKWQYTNRRRAFTMLGVVWLVAIVIGSPM  
WHVQQLEIKYDFLYEKEHICCLEEWTSPVHQKIYTTFILVILFLLPLMVMLILYSKIGYE  
LWIKKRVGDGSLVRTIHGKEMSKIARKKKRAVIMMVTVALFAVCWAPFHVVHMMIEYSN  
FEKEYDDVTIKMIFAIVQIIGFSNSICNPIVYAFMNENFKKNVLSAVCYCIVNKTFSPAQ  
RHGNSGITMMRKAKFSLRENPEETKGEAFSDGNIEVKLCEQTEKKKKLRHLALFRSE  
LAENSPLD SGH

>sp|Q6NUR6|R216L\_HUMAN Putative protein RNF216-like OS=Homo sapiens GN=RNF216P1 PE=5 SV=2  
MEEGNNNEEVIHLNLFHCHRGQDFVIFFWKTQIIQREKTESL

>sp|Q9NX57|RAB20\_HUMAN Ras-related protein Rab-20 OS=Homo sapiens GN=RAB20 PE=1 SV=1

MRKPDSKIVLLGDMNVGKTSLLQRYMERRFPDVTSTVGGA FYLKQWRSYNISIWDTAGRE  
QFHGLGSMYCRGAAAIILTYDVNHRQSLVELED RFLGLTDTASKDCLFAIVGNKVDLTEE  
GALAGQEKEECSPNMDAGDRVSPRAPKQVQLEDAVALYKKILKYKMLDEQDVPAAEQMCF  
ETSAKTGYNVDLLFETLFDLVPMILQQRAERPSHTVDISSHKPPKRTRSGCCA

>sp|P57735|RAB25\_HUMAN Ras-related protein Rab-25 OS=Homo sapiens GN=RAB25 PE=1 SV=2

MGNGTEEDYNFVFKVVLIGESVGKTNLLSRFRTRNEFSHDSRTTIGVEFSTRTVMLGTAA  
VKAQIWDTAGLERYRAITSAYYRGAVGALLVFDLTKHQTYAVVERWLKELYDHAEATIVV  
MLVGNKSDLSQAREVPTEEARMF AENGLLFLETSALDSTNVELAFETVLKEIFAKVSKQ  
RQNSIRTNAITLGSAAQAGQEPGPGEKRACCISL



>sp|Q15771|RAB30\_HUMAN Ras-related protein Rab-30 OS=Homo sapiens GN=RAB30 PE=1 SV=2  
MSMEDYDFLFKIVLIGNAGVGKTCLVRRFTQGLFPPGQGATIGVDFMIKTVEINGEKVKL  
QIWDTAGQERFRSITQSYRSANALILTYDITCEESFRCLPEWLREIEQYASNKVITVLV  
GNKIDLAERREVSQQRAEEFSEAQDMYYLETSAKESDNVEKLFLLDLACRLISEARQNTLV  
NNVSSPLPGEGKSISYLTCCNFN

>sp|Q13636|RAB31\_HUMAN Ras-related protein Rab-31 OS=Homo sapiens GN=RAB31 PE=1 SV=1  
MAIRELKVCLLGDGVGKSSIVCRFVQDHFHDNISPTIGASFMTKTVP CGNELHKFLIWD  
TAGQERFHS LAPMYRGSAAAVIVYDITKQDSFYTLKKWVKELKEHGPENIVMAIAGNKC  
DLSDIREVPLKDAKEYAESIGAI VVETS AKNAINIEELFQGISRQIPPLDPHENGNGTI  
KVEKPTMQASRRCC

>sp|Q5JT25|RAB41\_HUMAN Ras-related protein Rab-41 OS=Homo sapiens GN=RAB41 PE=1 SV=2  
MSAFGHDEAWMEAGFGLEAAERTEYQSLCKSKLLFLGEQSVGKTSIIISRFMYNSFGCAC  
QATVGIDFLSKTMYLEDQIVQLQLWDTAGQERFHS LIPSYIRDSTIAVVYDITNINSFK  
ETDKWVEHVRAERGGDVVIMLLGNKIDLDNKRQVTAEQGEEKSRNLNVMFIETSAKTGYN  
VKKLFRRVASALLSTRTSPPPKEGTVEIELESFEESGNRSYC

>sp|Q86YS6|RAB43\_HUMAN Ras-related protein Rab-43 OS=Homo sapiens GN=RAB43 PE=1 SV=1  
MAGPGPGPGDPDEQYDFLFLVLVG DASVGKTCVVQRFKTGAFSERQGSTIGVDFTMKTL  
EIQGKRVKLQIWDTAGQERFRTITQSYRSANGAILAYDITKRSSFLSVPHWIEDVRKYA  
GSNIVQLLIGNKSDLSELREVSLAEAQSLAEHYDILCAIETSAKDSSNVEEAFLRVATEL  
IMRHGGPLFSEKSPDHIQLNSKDIGEGWGCGC

>sp|P61020|RAB5B\_HUMAN Ras-related protein Rab-5B OS=Homo sapiens GN=RAB5B PE=1 SV=1  
MTSRSTARPNQGPQASKICQFKLVLLGESAVGKSSLVLR FVKGFHEYQESTIGAAFLTQ  
SVCLDDTTVKFEIWDTAGQERYHSLAPMYRGAQAAIVYDITNQETFARAKTWVKELQR  
QASPSIVIALAGNKADLAN KRMVEYEEAQAYADDNSLLFMETSAKTAMNVNDLFLAIKK  
LPKSEPQNLGGAAGRSRGVDLHEQSQQNKSQCCSN

>sp|Q7Z6M1|RABEK\_HUMAN Rab9 effector protein with kelch motifs OS=Homo sapiens GN=RABEPK  
PE=1 SV=1

MKQLPVLEPGDKPRKATWYTLTPGDSPCARVGHSCSYLPPVGN AKRGKVFIVGGANPNR  
SFSVDVHTMDLGKHQWDLDTCKGLLP RYEHASFIP SCTPDRIWVFGGANQSGNRNCLQVLN  
PETRTWTTPEVTSPPPSPRTFHTSSAAIGNQLYVFGGGERGAQPVQDTKLHVFDANTLTW  
SQPETLGNPPSPRHGMVAAGTKLFIHGGLAGDRFYDDLHCIDISDMKWQKLNP TGAAP  
AGCAAHS AVAMGHVYIFGGMTPAGALDTMYQYHTEEQHWTL LKFDTLPPGRLDHSMCI  
IPWPVTCASEKEDSNLTLNHEAEKEDSADKVM SHSGDSHEESQTATLLCLVFGGMNTEG  
EIYDDCIVTVVD

>sp|Q3YEC7|RABL6\_HUMAN Rab-like protein 6 OS=Homo sapiens GN=RABL6 PE=1 SV=2  
MFSALKKLVGSDQAPGRDKNIPAGLQSMNQALQRRFAKGVQYNMKIVIRGDRNTGKTALW  
HRLQGRPFVEEYIPTQEIQVTSIHWSYKTTDDIVKVEVDVVDKGKCKKRGDGLKMENDP  
QEAESMALDAEFLDVYKNCNGVMMFDITKQWTFNYILRELKVP THVPVCVLGNYRDM  
GEHRVILPDDVRDFIDNLD RPPGSSYFRYAESSMKN SFGLKYLHKFFNIPFLQLQRETLL  
RQLETNQLDMDATLEELSVQQETEDQNYGIFLEMM EARSRGHASPLAANGQSPSPGSQSP  
VVPAGAVSTGSSSPGTPQAPQLPLNAAPPSSVPPVPPSEALPPPACPSAPAPRRSIISR  
LFGTSPATEAAPPPEPVPA AEGPATVQSVEDFVPDDR LDRSFLEDTTPARDEKKVGAKA  
AQQDSDSDGEALGGNPMVAGFQDDVDLEDQPRGSPPLPAGPVPSQDITLSSEEEAEVAAP  
TKGPAPAPQQCEPETKWSSIPASKPRRGTA PTRTAAPPWPGGVSVRTGPEKRSSTRPPA

EMEPGKGEQASSSESDPEGPIAAQMLSFVMDDPDFESEGSDTQRRADDFPVRDDPSDVT  
EDEGPAEPPPPKLPAPFRLKNDSDLFGLGLEEAGPKESSEEGKEGKTPSKEKKKKKK  
GKEEEEKAAKKSKHKSKDKEEGKEERRRRQQRPPSRERTAADELEAFLGGGAPGGRH  
PGGGDYEEL

>sp|P63244|RACK1\_HUMAN Receptor of activated protein C kinase 1 OS=Homo sapiens GN=RACK1  
PE=1 SV=3

MTEQMTLRGTLKGHNWVTQIATTPQFPDMILSASRDKTIIMWKLTRDETNYGIPQRALR  
GHSHFVSDVVISDGGQFALSGSWDGLRLWDLTTGTTTRRFVGHDKDVLVAFSSDNRQI  
VSGSRDKTIKLWNTLGVCKYTVQDESHSEWVSCVRFSPNSSNP IIVSCGWDKLVKWNLA  
NCKLKTNHIGHTGYLNTVTVSPDGLCASGGKDGQAMLWDLNEGKHLTYLDGGDIINALC  
FSPNRYWLCAATGPSIKIWDLEGKIIIVDELKQEVISTSSKAEPQCTSLAWSADGQTLFA  
GYTDNLVRVWQVTIGTR

>sp|Q92878|RAD50\_HUMAN DNA repair protein RAD50 OS=Homo sapiens GN=RAD50 PE=1 SV=1

MSRIEKMSILGVRSGIEDKDKQIITFFSPLTILVGPNAGKTTIECLKYICTGDFPPG  
TKGNTFVHDPKVAQETDVRAQIRLQFRDVNGELIIVQSRMVCTQKSKTEFKTLEGVITR  
TKHGEKVSLSKCAEIDREMISSLGVSKAVLNNVIFCHQEDSNWPLSEGKALKQKFDEIF  
SATRYIKALETLRQVRQTGGQKVKEYQMELKYLKQYKEKACEIRDQITSKEAQLTSSKEI  
VKSYENELDPLKNRLKEIEHNLSKIMKLDNEIKALDSRKKQMEKDNSELEEKMEKVFQGT  
DEQLNDLYHNHQRVTREKERKLVCHRELEKLNKESRLNQEKSSELLVEQGRLQLQADRH  
QEHIRARDSLIQSLATQLELDGFERGPFSEKQIKNFHKLVRERQEGEAKTANQLMNDFAE  
KETLKQKQIDEIRDKKTGLGRIIELKSEILSKKQNELKNVKYELQQLEGSSDRILELDQE  
LIKAERELSKAEKNSNVETLKMEVISLQNEKADLDRTLRKLDQEMEQLNHHTTTTRTQMEM  
LTKDKADKDEQIRKIKSRHSDELTSLLGYFPNKKQLEDWLHKSKEINQTRDLAKLNKE  
LASSEQNKNHINNELKRKEEQLSSEYEDKLFVCGSQDFESDLDRLEEIEKSSKQRAMLA  
GATAVYSQFITQLTDENQSCCPVCQRVFQTEAELQEVISDLQSKLRLAPDKLKSTESSELK  
KKEKRRDEMLGLVPMRQSIIDLKEKEIPELRNKLQNVNRDIQRLKNDIEEQETLLGTIMP  
EEESAKVCLTDVTIMERFQMEKLDVERKIAQQAQKLQIDLDRTVQQVNQEKQEKQHKLD  
TVSSKIELNRKLIQDQEQEIHLKSTTNELKSEKLQISTNLQRRQQLEEQTVELSTEVQS  
LYREIKDAKEQVSPLITTLEKFQKEELINKKNTSNKIAQDKLNDIKEVKNIHGYMKD  
IENYIQDGKDDYKKQKETELNKVIAQLSECEKHKEKINEDMRLMRQDIDTQKIQRWLQD  
NLTLRKRNELKEVEEERKQHLKEMGMQVLQMKSEHQKLEENIDNIKRNHNLALGRQKG  
YEEEI IHFKELREPQFRDAEEKYREMMIVMRTELVNKDLDIYYKTLDAQIMKFHSMKM  
EEINKIIRDLWRSTYRGQDIEYIEIRSDADENVASDKRRNYNRYVVMKGDALDMRGR  
CSAGQKVLASLIIRLALAETFCLNCGIIALDEPTTNLDRENIESLAHALVEIKSRSQQR  
NFQLLVITHDEDFVELLGRSEYVEKFYRIKKNIDQCSEIVKCSVSSLGFNVH

>sp|Q9P0K7|RAI14\_HUMAN Ankycorbin OS=Homo sapiens GN=RAI14 PE=1 SV=2

MKSLKAKFRKSDTNEWNKNDDRLLQAVENGDAEKVASLLGKKGASATKHDSEGKTAFHLA  
AAKGHVECLRVMITHGVDVTAQDITGHSALHLAAKNSHHECIRKLLQSKCPAESVDSSGK  
TALHYAAAQGCLQAVQILCEHKSPINLKDLDGNIPLLLAVQNGHSEICHFLLDHGADVNS  
RNKSGRTALMLACEIGSSNAVEALIKKGADLNLVDSLGYNALHYSKLSNAGIQSLLLSK  
ISQDADLKTPTPKQHDQVSKISSERSGTPKKRKAPPPISPTQLSDVSSPRSITSTPLS  
GKESVFFAEPPFAEISSIRENKDRLSDSTTGADSLDISSEADQQDLLSLLQAKVASLT  
LHNKELQDKLQAKSPKEAEADLSFDSYHSTQTDLGPSLGKPGETSPDSSKSSPSVLIHSL  
GKSTTDNDVRIQQLQEILQDLQKRLESSEAEKQLQVELQSRRAELVCLNNTIESENSSD

LSQKLKETQSKYEEAMKEVLSVQKQMKLGLVSPESMDNYSHFHEL RVTEEEINVLKQDLQ  
NALEESERNKEKVRELEEKLVEREKGTVIKPPVEEYEEKSSYCSVIENMNKEKAFLFEK  
YQEAQEEIMTKLKD TLKSQMTQEASDEADMKEAMNRMIDELNKQVSELSQLYKEAQAELE  
DYRKRKSL EDVTA EYIHKAEHEKLMQLTNVSRKAEDALSEMKSQYSKVLNLTQLKQLV  
DAQKENSVSITEHLQVITTLRTAAKEME EKISNLKEHLASKEVEVAKLEKQLLEEKAAMT  
DAMVPRSSYEKLQSSLESEVSVLASKLKESVKEKEKVHSEVVQIRSEVSQVKREKENIQT  
LLKSKEQEVNELLQKFQQAQEELAEMKRYAESSSKLEEDKDKKINEMSKEVTKLKEALNS  
LSQLSYSTSSSKRQSQLEALQQQVKQLQNQLAECKKQHQEVISVYRMHLLYAVQGQMDE  
DVQKVLKQILTMCKNQSQKK

>sp|Q86SE5|RALYL\_HUMAN RNA-binding Raly-like protein OS=Homo sapiens GN=RALYL PE=1 SV=2  
MTGKTQTSNVTNKNDPKSINSRVFIGNLNTAIVKKVDIEAIFSKYGIKIVGCSVHKGYAFV  
QYMSERHARA AVAGENARVIAGQPLDINMAGEPKPYRPKPGNKRPLSALYRLESKEPFLS  
VGGYVFDYDYRRDDFYNRLFDYHGRVPPPPRAVIPLKRPRVAVTTTRRGKGVFSMKGGSR  
STASGSTGSKLKSDELQTIKKELTQIKTKIDSLLGRLEKIEKQQKAEAEAQKKQLEESLV  
LIQEECVSEIADHSTEEPAEGGPDADGEEMTDGIEEDFDEDDGGHELFLQIK

>sp|P13631|RARG\_HUMAN Retinoic acid receptor gamma OS=Homo sapiens GN=RARG PE=1 SV=1  
MATNKERLFAAGALPGSGYPGAGFPFAFPGALRGSPPFEMLSPSFRGLGQPDLPKEMAS  
LSVETQSTSSEEMVPSSPPPPPRVYKPCFVCNDKSSGYHYGVSSCEGCKGFFRRSIQK  
NMVYTCHRDKNCI INKVTRNRCQYCRLQKCFEVGMSKEAVRNDRNKKKKEVKEEGSPDSY  
ELSPQLEELITKVSKAHQETFPSLCQLGKYTTNSSADHRVQLDLGLWDFSELATKCIK  
IVEFAKRLPGFTGLSIADQITLLKAACLDILMLRICTRYTPEQDTMTFSDGLTLNRTQMH  
NAGFGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPEKVDKLQEPLLEA  
LRLYARRRRPSQPYMFPRMLKITDLRGISTKAERAITLKMEIPGMPPLIREMLENPE  
MFEDDSSQPGHPNASEDEVPGGQGGKGLKSPA

>sp|Q14644|RASA3\_HUMAN Ras GTPase-activating protein 3 OS=Homo sapiens GN=RASA3 PE=1 SV=3  
MAVEDEGLRVFQSVKIKIGEAKNLPSYPGSKMRDCYCTVNLDQEEVFRTKIVEKSLCPF  
YGEDFYCEIPRSFRHLSFYIFDRDVFRRDSIIGKVAIQKEDLQKYHNRDTWFLQHVDAD  
SEVQGKVHLELRLSEVITDTGVVCHKLATRIVECQGLPIVNGQCDPYATVTLAGPFRSEA  
KKTVKRKTNNPQFDEVFYFEVTRPCSYSKSHFD FEEEDVDKLEIRVDLWNASNLKFGD  
EFLGELRIPLKVL RQSSSYEAWYFLQPRDNGSKSLKPDDLGSRLNLNVYTEDHVFSSDYY  
SPLRDL LLSADVEPV SASAAHILGEVCREKQEA AVPLVRLFLHYGRVVPFISAIASAEV  
KRTQDPNTIFRGNLASKCIDETMKLAGMHYLVHTLKP AIEEICQSHKPCEIDPVKLKDG  
ENLENNMENLRQYVDRVFHAITESGVSCPTVMCDIFFSLREAAAKRFQDDPDVRYTAVSS  
FIFLRFFAPAILSPNLFQLTPHHTDPQTSRTLTLISKTVQTLGSLSKSKSASFKESYMAT  
FYEFFNEQKYADAVKNFLDLISSSGRRDPKSVEQPIVLKEGFMIKRAQGRKRFGMKNFKK  
RWFRLTNHEFTYHKSQDQPLYSIPIENILAVEKLEESFKMKNMFQVIQPERALYIQAN  
NCVEAKDWIDILTKVSQCNQKRLTVYHPSAYLSGHWLCCRAPSDSAPGCSPCTGGLPANI  
QLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEYSTFVIDDPQETYKTL  
KQVIAGVGALEQEHAQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI

>sp|Q86WH2|RASF3\_HUMAN Ras association domain-containing protein 3 OS=Homo sapiens  
GN=RASSF3 PE=1 SV=1  
MSSGYSSLEEDAEDFFFTARTSFFRRAPQGKPRSGQQDVEKEKETHSYLSKEEIKEKVHK  
YNLAVTDKLMKTLNSNGIYTGFIKVMELCKPPQTS PNSGKLS PSSNGCMNTLHISSTNT  
VGEVIEALLKKFLVTESPAKFALYKRCHREDQVYACKLSDREHPLYLRLVAGPRTDTLSF

VLREHEIGEWAFSLPELQNFLRILDKEEDEQLQNLKRRYTAYRQKLEEALREVWKP

>sp|Q9H2L5|RASF4\_HUMAN Ras association domain-containing protein 4 OS=Homo sapiens  
GN=RASSF4 PE=1 SV=2

MKEDCLPSSHVPISDSKSIQKSELLGLLKTYNKYHEGKSFQLRHREEEGTLIEGLLNIA  
WGLRRPIRLQMDDREQVHLPSTSWMPRRPSCPLKEPSPQNGNITAQGPSIQPVHKAESS  
TDSSGPLEEAEAPQLMRTKSDASCMSQRRPKCRAPGEAQRIRRHRSINGHFYNHKT  
SVFTPAYGSVTNVRVNSTMTTLQVLTLLLNKFRVEDGPSEFALYIVHESGERTKLKDC  
EYPLISRILHGPCEKIARIFLMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLKEEERE  
IIKLTMKFQALRLTMLQRLEQLVEAK

>sp|Q6ZTQ3|RASF6\_HUMAN Ras association domain-containing protein 6  
OS=Homo sapiens GN=RASSF6 PE=1 SV=1

MLWEETGAAPAPARASDLPYRISSDHLKKEEKMTMAHQYPSWIFINEKTFITREQLNSL  
LKTYNIFYENQKNLHILYGETEDGKLIVEGMLDIFWGVKRPIQLKIQDEKPFSSFTSMKS  
SDVFSSKGMTRWGEFDDLYRISELDRTQIPMSEKNSQEDYLSYHSNTLKPHAKDEPDSP  
VLYRTMSEALVRKRMKPLMDRKRQKNRASINGHFYNHETSIFIPAFESETKVRVNSN  
MRTEEVIKQLLQFKIENSPQDFALHIIFATGEQRRLLKTDIPLLQRLQLQGPSEKNARIF  
LMDKDAEEISSDVAQYINFHFSLLESILQRLNEEEKREIQRIVTKFNKEKAIILKCLQNK  
LVIKTETTV

>sp|Q02833|RASF7\_HUMAN Ras association domain-containing protein 7  
OS=Homo sapiens GN=RASSF7 PE=1 SV=1

MLLGLAAMELVVWDGIRVVCVGEQTTCCQEVVIALAQIGQTGRFVLVQRLREKERQL  
LPQECVGAQATCGQFASDVQFVLRRTGPSLAGRPSSDSCPPPERCLIRASLPVKPRAAL  
GCEPRKLTTPAPSLSRPGAAPVTPTPGCCTDLRGLRLRVQRNAEELGHEAFWEQELR  
REQAREREGQARLQALSAATAEHAARLQALDAQARALEAELQLAAEAPGPPSPMASATER  
LHQDLAVQERQSAEVQGSALVSRALAAERLQAQAQEEELNRELQCNLQQFIQQTG  
AALPPPPRDRGPPGTQGPLPAREESLLGAPSESHAGAPRPRGGPHDAELLEVAAPPA  
PEWCPLAAQPQAL

>sp|A6NK89|RASFA\_HUMAN Ras association domain-containing protein 10  
OS=Homo sapiens GN=RASSF10 PE=2 SV=3

MDPSEKKISVWICQEEKLVSGLSRRTTCSDVVRVLLDGCRRRRRQRRSRRLGSAGDPHG  
PGELPEPPNEDDEDDDEALPQGMLCGPPQCYCIVEKWRGFERILPNKTRILRLWAAWGE  
QENRVFVLVRSEASLPNAGPRSAEARVLSRERPCPARGAPARPSLAMTQEKQRRVVRKA  
FRKLAKLNNRRRQQTPSSCSSTSSSTASSCSSSPRTHESASVERMETLVHLVLSQDHTIR  
QQVQRLHELDREIDHYEAKVHLDRMRRHGVNYVQDITYLVGAGIELDGSRPGEPEEVA  
AAEAAAAAPPLAGEAQAALAEELARRCDDLRLQEQRVQEEELLERLSAEIQEELNQ  
RWMRRRQEELAAAREEPLEPDGGPDGELLLEQERVRTLSTSLYIGLRLNTDLEAVKSD  
LDYSQQQWDSKKRELQGLLQTLHTLELTVAPDGAPGSGSPSREPGPQACADMWVDQ  
ARGLAKSGPGNDESDTGLSSMSQDSDSLPMCESLV

>sp|P01112|RASH\_HUMAN GTPase HRas OS=Homo sapiens GN=HRAS PE=1  
SV=1

MTEYKLVVVVGAGVGKSALTILQIQLNHVFDEYDPTIEDSYRKQVVIDGETCLLDIL  
DTAGQEEYSAMRDQYMRGTGEGFLCVFAINNTKSFEDIHQYREQIKRVKSDDDVPMV  
LVGNKCDLAAARTVESRQAQDLARSYGIPYIETSAKTRQGVEDAFYTLVREIRQHKLR  
KLNPPDESGPGCMSCKCVLS

>sp|O43374|RASL2\_HUMAN Ras GTPase-activating protein 4 OS=Homo  
sapiens GN=RASA4 PE=2 SV=2

MAKRSSLYIRIVEGKNLPAKDITGSSDPYCIKVDNEPIIRTATVWKTLCPFWGEEYQVH  
LPPTFHAVAFYVMEDEALSRDDVIGKVCLTRDTIASHPKGFSGWAHLTEVDPDEEVQGEI  
HLRLEVWPGARACRLRCSVLEARDLAPKDRNGTSDPFVRVRYKGRTRETSIVKKSCYPRW  
NETFEFELQEGAMEALCWEAWDWDLVSRNDFLGKVVIDVQRLRVVQQEEGWFRQLPDQSK  
SRRHDEGNLGSLLQLEVRLRDETVLPSSYYQPLVHLLCHEVKLGMQGPGLIPLIEETTST  
ECRQDVATNLLKLFLGQGLAKDFDLDFQLELSRTSETNTLFRSNSLASKSMESFLKVAG  
MQYLHGVLGPIINKVFEEKKYVELDPSKVEVKDVGCSGLHRPQTEAEVLEQSAQTLRAHL  
GALLSALSRSVRACPAVVRATFRQLFRRVRERFPGAQHENVFPIAVTSFLCLRFFSPAIM  
SPKLFHLRERHADARTSRTLLLLAKAVQNVGNMDTPASRAKEAWMEPLQPTVRQGVAQLK  
DFITKLVDIEEKDELQRTLSLQAPPVKEGPLFIHRTKGKGPLMSSSFKKLYFSLTTEA  
LSFAKTPSSKKSALIKLANIRAAEKVEEKSFGGSHVMQVIYTD DAGRPQTAYLQCKCVNE  
LNQWLSALRKVSINNTGLLSYHPGVFRGDKWSCCHQKEKTGGCDKTRSRVTLQEWNDP  
LDHDLEAQLIYRHLLGVEAMLWERHRELSGGAEAGTVPTSPGKVPEDSLARLLRVLQDLR  
EAHSSSPAGSPSEPNCLELQT

>sp|Q9NYN1|RASLC\_HUMAN Ras-like protein family member 12 OS=Homo sapiens GN=RASL12 PE=1 SV=1

MSSVFGKPRAGSGPQSAPLEVNLAILGRRGAGKSALTVKFLTKRFISEYDPNLEDYSSSE  
ETVDHQPVHLRVMDTADLDTPRNCERYLNWAHAFLVVYSVDSRQSFDSSSSYLELLALHA  
KETQRSIPALLLGKNDMAQYRQVTKAEGVALAGRFGCLFFEVSACLD FEHVQHV FHEAV  
REARRELEKSPLTRPLFISEERALPHQAPLTARHGLASCTFNTLSTINLKEMPTVAQAKL  
VTVKSSRAQSKRKAPTLTLLKGFKIF

>sp|P51159|RB27A\_HUMAN Ras-related protein Rab-27A OS=Homo sapiens GN=RAB27A PE=1 SV=3

MSDGDYDYLKFLALGDSGVGKTSVLVYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDG  
ATGRGQRIHLQLWDTAGQERFRSLTTAFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMH  
AYCENPDIVLCGNKSDLEDQRVVKEEEAIALAEKYGIPYFETSAANGTNISQAIEMLLDL  
IMKRMERCVDKSWIPEGVVRSGHASTDQLESEEKEKGACGC

>sp|POCOE4|RB40L\_HUMAN Ras-related protein Rab-40A-like OS=Homo sapiens GN=RAB40AL PE=1 SV=1

MSAPGSPDQAYDFLLKFLLVGDRDVGKSEILES LQDGTAE SPYSHLGGIDYKTTTILLDG  
QRVKLKLWDTSGQGRFCTIFRSYSRGAQGVILVYDIANRWSFEGMDRWIKKIEEHAPGVP  
KILVGNRLHLAFKRQVPREQAQYAE RLGVTF FEVSPLCNFNIIESFTELARIVLLRHRL  
NWLGRPSKVLSLQDLCCRTIVSCTPVHLVDKLPLPIALRSHLKSFSMAKGLNARMMRGLS  
YSLTTSSTHKRSSLCKVKIVCPPQSPPKNCTRNCKIS

>sp|Q9P1G2|RBAS1\_HUMAN Putative uncharacterized protein encoded by RBM12B-AS1 OS=Homo sapiens GN=RBM12B-AS1 PE=5 SV=2

MAQDFSQHPQTGIIRRRHFYSPKPLSTTPRGQSFLLSRQAKVATWDPMLSPDFQPKSAFK  
LTWTAQPPCLSVTPSQGQTFHPNSPEGELPPDLTENTCPSQA

>sp|P28749|RBL1\_HUMAN Retinoblastoma-like protein 1 OS=Homo sapiens GN=RBL1 PE=1 SV=3

MFEDKPHAEGA AVVAAAGEALQALCQELNLDEGSAAEALDDFTAIRGNYSLEGEVTHWLA  
CSLYVACRKSIIPTVGKGIMEGNCVSLTRI LRS AKLSLIQFFSKMKKWMDSNLPQEFRE  
RIERLERNFEVSTVIFKKYEPIFLDIFQNPYEEPPKLPRSRKQRRIPCSVKDLFNFCWTL  
FVYTKGNFRMIGDDL VNSYHLLCCLDLIFANAIMCPNRQDLLNPSFKGLPSDFHTADFT  
ASEEPPCIIAVLCELHDGLLVEAKGIKEHYFKPYISKLFDRKILKGECLLDLSSFTDNSK  
AVNKEYEEYVLTVGDFDERIFLGADAE E EIGTPRKFTTRDTPLGKLTAQANVEYNLQQHFE

KKRSFAPSTPLTGRRYLREKEAVITPVASATQSVSRQLSIVAGLKNAPSDQLINIFESCV  
RNPVENIMKILKGIGETFCQHYTQSTDEQPGSHIDFAVNRLKLAELIYKILETMVQET  
RRLHGMDSVLLEQDIFHRSLMACCLEIVLFAYSSPRTFPWIIIEVLNLQPFYFYKVEVV  
IRSEGLSRDMVKHLNSIEEQILESLSAWSHDSALWEALQVSANKVPTCEEVIFPNNFETG  
NGGNVQGHPLMPMSPLMHPRVKEVRTDSGSLRRDMQPLSPISVHERYSSPTAGSAKRRL  
FGEDPPKEMLMDKIITEGTLKLIAPSSSITAENVSIILPGQTLLTMATAPVTGTTGHKVTI  
PLHGVANDAGEITLIPLSMNTNQESKVKSPVSLTAHSLIGASPKQTNLTAKAEVHSTGIN  
RPKRTGSLALFYRKVYHLASVRLRDLCKLDVSNELRRKIWTCFEFTLVHCPDLMKDRHL  
DQLLLCAFYIMAKVTKERTFQEIMKSYRNQPQANSHVYRSVLLKSIPREVVAYNKNIND  
DFEMIDCDLEDATKTPDCSSGPVKEERGDLIKFYNTIYVGRVKSFAKYDLANQDHMDA  
PPLSPFPHIKQPGSPRRISQQHSIYISPHKNGSGLTPRSALLYKFNGSPSKSLKDINNM  
IRQGEQRTKKRVIAIDSDAESPAKRVCQENDDVLLKRLQDVVSERANH

>sp|Q08999|RBL2\_HUMAN Retinoblastoma-like protein 2 OS=Homo sapiens GN=RBL2 PE=1 SV=3

MPSGGDQSPPPPPPPAAAAASDEEEEDGEAEDAAPPAESPTPIQQRFDLCSRLNMDE  
AARAEAWDSYRSMSESYTLEGNDLHWLACALYVACRKSVPTVSKGTVEGNYVSLTRILKC  
SEQSLIEFFNMKKKWEDMANLPPHFRERTERLERNFTVSAVIFKKYEPFQDIFKYPQEE  
QPRQQGRKQRRQPCTVSEIFHFCWVLFYAKGNFPMISDDLNSYHLLLALDLVYGNA  
LQCSNRKELVNPNGLSDFHAKDSKPSSDPPCIEKLCSLHDGLVLEAKGIKEHFWKP  
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGDAEE  
EIGTLRCLNAGSGTETAERVQMKNILQQHFDKSKALRISTPLTGVRYIKENSPCVTPVS  
TATHLSRLHTMTGLRNPASEKLEQILRTCSRDPQAIANRLKEMFEIYSQHFQPDDEF  
SNCAKEIASKHFRFAEMLYYKVLESVIEQEQKRLGMDLSGILEQDAFHRSLLACCLEV  
TFSYKPPGNFPFITEIFDVPLYHYFYKVEVFIRAEDGLCREVVKHLNQIEEQILDHLAWK  
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEICIASPLTPRRVTEVRADTGGLGRSI  
TSPTTLYDRYSSPASTTRRRLFVENDSPSDGGTPGRMPPQLVNAVVPVQNVSETVSVT  
PVPQGTLVTMATATVTANNGQTVTIPVQGIANENGGITFFPVQNVVGGQAQAVTGSIQPL  
SAQALAGSLSSQQVTGTTLQVPGQVAIQQISPGGQQKQKQSVTSSSNRPRKTSSLSLFF  
RKVYHLAAVRLRDLCAKLDISDELRRKIWTCFEFSIIQCPELMMDRHLQLLMCAIYVMA  
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLKGRKRRNSGSSDSRSHQNSPTELNKDR  
TSRDSSPVMRSSSTLPVPQPSAPPTPTRLTGANSDMEEEEERGDLIQFYNNIYIKQIKTF  
AMKYSQANMDAPPLSPYPFVRTGSPRRIQLSQNHVYISPHKNETMLSPREKIFYFYSNS  
PSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSALLRRLQDVANDRGSH

>sp|P20742|PZP\_HUMAN Pregnancy zone protein OS=Homo sapiens GN=PZP PE=1 SV=4

MRKDRLHLCLVLLLILLSASDNSSTEPQYMLVPSLLHTEAPKKGCVLLSHLNETVTVS  
ASLESGRENRLFTDLVAEKDLFHCVSFTLPRISASSEVAFLSIQIKGPTQDFRKRNTVL  
VLNTQSLVFVQTDKPMYKPGQTVRFRVSVDENFRPRNELIPLIYLENPRRNRIAQWQSL  
KLEAGINQLSFPLSSEPIQGSYRVVVQTESGGRIQHPFTVEEFVLPKFEVKVQVPKIIISI  
MDEKVNITVCGEYTYGKVPVGLATVSLCRKLSRVLNCDKQEVCEEFSQQLNSNGCITQQV  
HTKMLQITNTGFEMKLREARIREEGTDLEVTANRISEITNIVSKLKFVKVDSHFRQGIP  
FFAQVLLVDGKGVPINPKLFFISVNDANYYSNATTNEQGLAQFSINTTSISVNKLFVRVF  
TVHPNLCFHYSWAEDHQAQHTANRVFSLSGSYIHLEPVAGTLPCGHTETITAHYTLNR  
QAMGELSELSFHYLIMAKGVIIVRSHTLTPVESGDMKGSFALSFPVESDVAPIARMFIFA  
ILPDGEVVGDSKFEIENCLANKVDLSFSPAQSPASHAHLQVAAAPQSLCALRAVDQSV  
LLMKPEAELSVSSVYNLLTVKDLTNFPDNDQQEEEQGHCPRPFFIHNGAIYVPLSSNEA

DIYSFLKGMGLKVFTNSKIRKPKSCSVIPSVSAGAVGQGYGAGLGVERPYVPQLGTYN  
VIPLNNEQSSGPVPETVRSYFETWIELVAVNSSGVAEVGVTPDTITEWKAGAFCLSE  
DAGLGISSTASLRAFQPFVETLMPYSVIRGEVFTLKATVLNYPKCIRVSVQLKASPAF  
LASQNTKGESYICGNERQTLSTVTPKTLGNVNFVSVAEAMQSLELCGNEVVEVPEIK  
RKDTVIKTLLVEAEGIEQEKTFSSMTCASGANVSEQLSLKLPSNVVKESARASFSVLGDI  
LGSAMQNIQNLLQMPYGCGEQNMVLFAPNIYVLNLYNETQQLTQEIKAKAVGYLITGYQR  
QLNYKHQDGSYSTFGERYGRNQNTWLTAFVLKTFQAARSYIFIDEAHITQSLTWLSQMQ  
KDNGCFRSSGSLNNAIKGGVEDEATLSAYVTIALLEIPLPVTNPIVRNALFCLESANV  
AKEGTHGSHVYTKALLAYAFSLLGKQKNREILNSLDKEAVKEDNLVHWPQRPKAPVG  
HLYQTQAPSAEVEMTSYVLLAYLTAQPAPTSGLDTSATNIVKWIMKQNAQGGFSSTQDT  
VVALHALSRYGAATFTRTEKTAQVTVQDSQTFSTNFQVDNNLLLLQQISLPELPGEYVI  
TVTGERCVYLQTSMKYNILPEKEDSPFALKVQTVPTCDGHAHTSFQISLTISYTGSRP  
ASNMVIVDVKMVSFIPKPTVKMLERSSSVSRTEVSNNHVLIIYVEQVTNQTLFSFMVL  
QDIPVGDLPKPAIVKVYDYYETDESVAEYIAPCSTDTEHGNV

>sp|Q04671|P\_HUMAN P protein OS=Homo sapiens GN=OCA2 PE=1 SV=2

MHLEGRDGRYPGAPAVELLQTSVPSGLAELVAGKRRLPRGAGGADPSHSCPRGAAGQSS  
WAPAGQEFASFLTKGRSHSLPQMSSSRKSDCFTENTPLLRNSLQEKGSRCIPVYHPEF  
ITAEESWEDSSADWERRYLLSREVSGLSASASSEKGDLLDSPHIRLRLSKLRRCVQWLKV  
MGLFAFVVLCSILFSLYPDQGLWQLLALSPLNYSVNLSSHVDSTLLQVDLAGALVASG  
PSRPGREEHIVVELTQADALGSRWRRPQQVTHNWTVYLNPRRSEHSVMSRTFEVLTRTV  
SISIRASLQQTQAVPLMAHQYLRGSVETQVTIATAILAGVYALIIFEIVHRTLAAMLGS  
LAALAAALAVIGDRPSLTHVVEWIDFETLALLFGMMILVAIFSETGFFDYCAVKAYRLSRG  
RVWAMIIMLCIAAVLSAFLDNVTMLLFTPTVIRLCEVLNLDPRQVLIAEVIFTNIGGA  
ATAIGDPPNVIIVSNQELRKMGLDFAGFTAHMFIGICLVLLVCFPLLRLLYWNRLYNKE  
PSEIVELKHEIHVWRLTAQRISPASREETAVRRLLGKVLALEHLLARRLHTFHRQISQE  
DKNWETNIQELQKKHRISDGILLAKCLTVLGFVIFMFFLNSFVPGIHLDLGWIAILGAIW  
LLILADIHDFEIIILHRVEWATLLFFAALFVLMEALHLHLIEYVGEQTALLIKMVPEEQR  
LIAAIVLVVWSALASSLIDNIPFTATMIPVLLNLSHDPEVGLPAPPLMYALAFGACLGG  
NGTLIGASANVVCAGIAEQHGYGFSFMEFFRLGFPMVVSCTVGMCYLLVAHVVGWN

>sp|P31930|QCR1\_HUMAN Cytochrome b-c1 complex subunit 1, mitochondrial OS=Homo sapiens  
GN=UQCRC1 PE=1 SV=3

MAASVVCRAATAGAVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVA  
SEQSSQPTCTVGWVIDVGSRFETEKNGAGYFLEHLAFKGTKNRPGSALEKEVESMGAHL  
NAYSTREHTAYYIKALS KDLPKAVELLGDIVQNCSEDSQIEKERVILREMQENDASMR  
DVVFNYLHATAFGGTPLAQAVEGPSENVKLSRADLTEYLSHYKAPRMVLAAGGVEHQ  
QLDLAQKHLGGIPWYAEDAVPTLTPCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD  
NVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTFISICYAETGLLGAHFVC  
DRMKIDMMFVLQGGWMLRCSATESEVARGNILRNALVSHLDGTTTPCEDIGRSLTY  
GRRIPLAEWESRIAEVDASVVREICSKYIYDQCPAVAGYGPTEQLPDYNRIRSGMFWLRF

>sp|A0A096LP55|QCR6L\_HUMAN Cytochrome b-c1 complex subunit 6-like, mitochondrial OS=Homo  
sapiens GN=UQCRHL PE=3 SV=1

MGLEDEQKMLTESGDPEEEEEEEELVDPLTTVREQCEQLEKCVKARERLELYDEHVSSR  
SHTEEDCTEELDFDLHAKDHCVAHKL FNNLK

>sp|P07919|QCR6\_HUMAN Cytochrome b-c1 complex subunit 6, mitochondrial OS=Homo sapiens  
GN=UQCRH PE=1 SV=2

MGLEDEQKMLTESGDPPEEEEEEEELVDPLTTVREQCEQLEKCVKARERLELCDERVSSR  
SHTEEDCTEELFDLHARDHCVAHKLFNNLK

>sp|O95825|QORL1\_HUMAN Quinone oxidoreductase-like protein 1 OS=Homo sapiens GN=CRYZL1  
PE=1 SV=2

MKGLYFQQSSTDEEITFVFQEKEDLPVTEDNFVKLQVKACALSQINTKLLAEMKMKKDLF  
PVGREIAGIVLDVGSKVSFFQPDDEVVIGILPLDSEDPGLCEVVRVHEHYLVHKPEKVTWT  
EAAGSIRDGVRAYTALHYLSHLSPGKSVLIMDGASAFGTIAIQLAHHRGAKVISTACSLE  
DKQCLERFRPPIARVIDVSNQKVHVAESCLEETGGLGVDIVLDAGVRLYSKDDEPAVKLQ  
LLPHKHDIIITLLGVGGHWVTTEENLQLDPPDSHCLFLKGATLAFLNDEVWNLSNVQQGKY  
LCILKDVMEKLSTGVFRPQLDEPIPLYEAKVSMEAVQKNQGRKKQVVQF

>sp|Q96B01|R51A1\_HUMAN RAD51-associated protein 1 OS=Homo sapiens GN=RAD51AP1 PE=1 SV=1

MVRPVRHKKPVNYSQFDHSDSDDDFVSATVPLNKKSRTPAPKELKQDKPKPNLNNLRKEEI  
PVQEKTPKKRLPEGTFSSIPASAVPCTKMALDDKLYQRDLEVALALSVKELPTVTTNVQNS  
QDKSIEKHGSSKIETMNKSPHISNCSVASDYLDLKITVEDDVGGVQGKRKAASKAAAQQ  
RKILLEGSDGDSANDTEPDFAPGEDSEDDSDFCESDNDEDFSMRKSKEIKKKEVKVK  
SPVEKKEKSKSKCNALVTSVDSAPAAVKSESQSLPKKVSLSDDTTRKPLEIRSPSAESK  
KPKWVPPAASGGSRSSSSPLVVSVKSPNQSLRLGLSRLARVKPLHPNATST

>sp|Q32P51|RA1L2\_HUMAN Heterogeneous nuclear ribonucleoprotein A1-like 2 OS=Homo sapiens  
GN=HNRNPA1L2 PE=2 SV=2

MSKSASPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTRSRGFGFV  
TYATVEEVDAAAMNTTPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEHH  
LRDYFEQYQKIEVIEIMTDRGSGKKRGFAFVTFDDHDSVDKIVIQKYHTVKGHNCEVRKA  
LPKQEMASASSQRGRRGSGNFGGGRGDGFGGNDNFGRGGNFSGRGGFGGSCGGGGYGGG  
GDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPQ  
NQGGYGVSSSSSYGSGRRF

>sp|P62820|RAB1A\_HUMAN Ras-related protein Rab-1A OS=Homo sapiens GN=RAB1A PE=1 SV=3

MSSMNPEYDYLKLLLIIGDSGVGKSCLLRFADDTYTESYISTIGVDFKIRTIELDGKTI  
KLQIWDTAGQERFRTITSSYYRGAHGIIIVYDVTDQESFNNVKWLQEIDRYASENVNKL  
LVGNKCDLTTKKVVDYTTAKEFADSLGIPFLETSAKNATNVEQSFMTMAAEIKKRMGPGA  
TAGGAEKSNVKIQSTPVKQSGGGCC

>sp|Q9UL25|RAB21\_HUMAN Ras-related protein Rab-21 OS=Homo sapiens GN=RAB21 PE=1 SV=3

MAAAGGGGGGAAAAGRAYSFKVLLGEGCVGKTSVLRYCENKFNDKHITTLQASFLTKK  
LNIGGKRVNLAIWDTAGQERFHALGPIYYRDSNGAILVYDITDEDSFQVKVNWVKELRKM  
LGNEICLCIVGNKIDLEKERHVS IQEASYESVGAKHYHTSAKQNKGIEELFLDLCKRM  
IETAQVDERAKNGSSQPGTARRGVQIIDDEPQAQTSGGGCCSSG

>sp|Q9ULW5|RAB26\_HUMAN Ras-related protein Rab-26 OS=Homo sapiens GN=RAB26 PE=1 SV=3

MSRKKTPKSKGASTPAASTLPTANGARPARSGTALSGPDAPPNGPLQGRPSLGGGVDFY  
DVAFKVMLVGDSGVGKTCLLVRFKDGAFLAGTFISTVGIDFRNKVLDVDGVKVKLQMWD  
AGQERFRSVTHAYYRDAHALLLYDVNTKASFDNIQAWLTEIHEYAQHDVALMLLGKVD  
SAHERVVKREDGEKLAKEYGLPFMETS AKTGLNVDLAFTAI AKELKQRSMKAPSEPRFL  
HDYVKREGRGASCCRP

>sp|O95755|RAB36\_HUMAN Ras-related protein Rab-36 OS=Homo sapiens GN=RAB36 PE=2 SV=2



MVIAGASWMLGRAAASPTQTPPTTSTIRVARRSRVALVAMVIAAGSGGPGRAEPQLSQP  
SLDCGRMRSSLTPLGPPVSRDRVIASF PKWYTP EACLQLREHFHGQVSAACQRRNTGTVG  
LKLSKVVVVGDLYVGKTS LIHRFCNVFDRDYKATIGVDFEIERFEIAGIPYSLQIWDTA  
GQEKFKCIASAYYRGAQVIITAFDLTDVQTLEHTRQWLEDALRENEAGSCFIFLVGTKKD  
LLSGAAEQAEADAVHLAREMQAEYWSVSAKTGENVKAFFSRVAALAFEQSVLQDLERQS  
SARLQVGNGDLIQMEGSPPETQESKRPSLGGC

>sp|P57729|RAB38\_HUMAN Ras-related protein Rab-38 OS=Homo sapiens GN=RAB38 PE=1 SV=1  
MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPE TVVR  
LQLWDIAGQERFGNMTRVYYREAMGAFIVFDVTRPATFEAVAKWKNLDSKLSLPNGKPV  
SVVLLANKCDQGDVLMNGLKMDQFCKEHGFVGFETS AKENINIDEASRCLVKHILAN  
ECDLMESIEPDVVKPHLTSTKVASCSCGCAKS

>sp|Q96QF0|RAB3I\_HUMAN Rab-3A-interacting protein OS=Homo sapiens GN=RAB3IP PE=1 SV=1  
MGLKKMKGLSYDEAFAMANDPLEGFHEVNLASPTSPDLLGVYESGTQEQTTS P SVIYRPH  
PSALSSVPIQANALDVSELPTQPVYSSPRLNCAEISSISFHVTD PAPCSTSGVTAGLTK  
LTTRKDNNAEREFLQGATITEACDGSDDIFGLSTDLSRLRSPSVLEVREKGYERLKEE  
LAKAQRELKLD EECERLSKVRDQLGQEELELTASLFEEAHKMVREANIKQATAEKQLKE  
AQGKIDVLQAEVAALKTLVLSSSPTSPTQEPLPGGKTPFKKGHTRNKSTSSAMSGSHQDL  
SVIQPIVKDCKEADLSLYNEFRLWKDEPTMDRTCPFLDKIYQEDIFPCLTFSKSELASAV  
LEAVENNTLSIEPVGLQPIRFVKASAVECGGPKKCALTGQSKSKHRIKLGSSNYYYIS  
PFCRYRITSVCNFFTYIRYIQGLVKQDQVDFWFEVMQLRKEMSLAKLGYFKEEL

>sp|Q8N4Z0|RAB42\_HUMAN Putative Ras-related protein Rab-42 OS=Homo sapiens GN=RAB42 PE=5  
SV=1

MATQGPDKVIFLLVGHKSDLQSTRCVSAQAEELAASLGMAFVETSVKNNCNVDLAFDTL  
ADAIQQALQQGDIKLEEGWGGVRLIHKTQIPRSPSRKQHSGPCQC

>sp|P20338|RAB4A\_HUMAN Ras-related protein Rab-4A OS=Homo sapiens GN=RAB4A PE=1 SV=3  
MSQTAMSETYDFLFKFLVIGNAGTGKSCLLHQFIEKKFKDDSNHTIGVEFGSKIINVGGK  
YVKLQIWDTAGQERFRSVTRSYRGAAGALLVYDITSRETYNALTNLWTDARMLASQNIV  
IILCGNKKDLADREVTFLASRFAQENELMFLET SALTGENVEEAFVQCARKILNKIES  
GELDPERMGSGIQYGDALRQLRSPRRAQAPNAQECGC

>sp|P51148|RAB5C\_HUMAN Ras-related protein Rab-5C OS=Homo sapiens GN=RAB5C PE=1 SV=2  
MAGRGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEYQESTIGAAFLT  
QTVCLDDTTVKFEIWDTAGQERYHSLAPMYRGAQAAIVVDITNTDTFARAKNWKELQ  
RQASPNIVIALAGNKADLASKRAVEFQEAQAYADDNSLLFMETSAKTAMNVNEIFMAIAK  
KLKNEPQNATGAPGRNRGVDLQENNPASRSQCCSN

>sp|Q9NRW1|RAB6B\_HUMAN Ras-related protein Rab-6B OS=Homo sapiens GN=RAB6B PE=1 SV=1  
MSAGGDFGNPLRKFKLVFLGEQSVGKTS LITRFMYDSFDNTYQATIGIDFLSKTMYLEDR  
TVRLQLWDTAGQERFRSLIPSYIRDSTVAVVVYDITNLNSFQQTSKWIDDV RTERGSDVI  
IMLVGNKTDLADKRQITIEEGEQRAKELSV MFIETSAKTGYNVKQLFRRVASALPGMENV  
QEKSKEGMIDIKLDPQEPPEGGCSC

>sp|P51149|RAB7A\_HUMAN Ras-related protein Rab-7a OS=Homo sapiens GN=RAB7A PE=1 SV=1  
MTSRKKVLLKVIILGDSGVGKTS LMNQYVNKKFSNQYKATIGADFLTKEVMVDDR LVTMQ  
IWDTAGQERFQSLGVAFYRGADCCVLVFDVTAPNTFKTLDSWRDEFLIQASPRDPENFPF  
VVLGNKIDLENRQVATKRAQAWCYSKNNIPYFETSAKEAINVEQAFQTIARNALKQETEV  
ELYNEFPEPIKLDKNDRAKASAESCSC

>sp|P51151|RAB9A\_HUMAN Ras-related protein Rab-9A OS=Homo sapiens GN=RAB9A PE=1 SV=1

MAGKSSLFKVILLGDGGVGKSSLMNRYVTNKFDTQLFHTIGVEFLNKDLEVDGHFVTMQI  
WDTAGQERFRSLRTPFYRGSDCCLLTFSVDDSQSFQNLNWKKEFIYYADVKEPESFPFV  
ILGNKIDISERQVSTEEAQAWCRDNGDYPYFETSAKDATNVAAAFEEAVRRVLATEDRSD  
HLIQTDTVNLHRKPKPSSSCC

>sp|Q9NS91|RAD18\_HUMAN E3 ubiquitin-protein ligase RAD18 OS=Homo sapiens GN=RAD18 PE=1 SV=2

MDSLAEsrwppGLAVMKTIDDLRCGICFEYFNIAmIIPQCSHNYCSLCIRKFLSYKTQC  
PTCCVTVTEPDLKNNRILDELVKSLNFARNHLLQFALESPAKSPASSSSKNLAVKVYTPV  
ASRQSLKQGSRLMDNFLIREMSGSTSELLIKENKSKFSPQKEASPAAKTKETRSVEEIAP  
DPSEAKRPEPPSTSTLKQVTKVDCPVCGVNIPESHINKHLDSCLSREEKKESLRSSVHKR  
KPLPKTVYNLLSDRDLKKKLKEHGLSIQGNKQQLIKRHQEFVHMYNAQCDALHPKSAAEI  
VREIENIEKTRMRLEASKLNESVMVFTKDQTEKEIDEIHSKYRKKHKSEFQLLDQARKG  
YKKIAGMSQKTVTITKEDESTEKLSSVCMGQEDNMTSVTNHFSQSKLDSPEELEPDREED  
SSSCIDIQEVLSSESDESCNSSSSDIIRDLEEEEAWEASHKNDLQDTEISPRQNRRTA  
AESAEIEPRNKRNRN

>sp|Q9Y272|RASD1\_HUMAN Dexamethasone-induced Ras-related protein 1 OS=Homo sapiens GN=RASD1 PE=1 SV=1

MKLAAMIKKMCPDSELSIPAKNCYRMVILGSSKVGKTAIVSRFLTGRFEDAYTPTIEDF  
HRKFYSIRGEVYQLDILDTSGNHFPFAMRRLSILTGDVFIILVFSLDNRDSFEVQRLRQQ  
ILDTKSLCKNKTENVDVPLVICGNKGDRDFYREVDQREIEQLVGDDPQRCAYFEISAKK  
NSSLDQMFRALFAMAKLPSEMSPDLHRKVSQYCDVLHKKALRNKLLRAGSGGGGGDPG  
DAFGIVAPFARRPSVHSDLMYIREKASAGSQAKDKERCVIS

>sp|Q9NS23|RASF1\_HUMAN Ras association domain-containing protein 1 OS=Homo sapiens GN=RASSF1 PE=1 SV=1

MSGEPELIELRELAPAGRAGKGRTRLERANALRIARGTACNPTRQLVPGRGHRFQPAGPA  
THTWCDLCGDFIWGVVRKGLQCARLSADCKFTCHYRCRALVCLDCCGPRDLGWEPAPERD  
TNVDEPVEWETPDLQAEIEQKIKEYNAQINSNLFMSLNKDGSYTGFIKVLKLVRPVSV  
PSSKKPPSLQDARRGPGRGTSVRRRTSFYLPKDAVKHLHVLSTRAREVIEALLRKFLVV  
DDPRKFALFERAERHGQVYLRKLLDDEQPLRLRLLAGPSDKALSFVLKENDSGEVNWDAF  
SMPELHNFLRILQREEEHLRQILQKYSYCRQKIQEALHACPLG

>sp|Q86YV0|RASL3\_HUMAN RAS protein activator like-3 OS=Homo sapiens GN=RASAL3 PE=1 SV=2

MDPPSPSRSTSQTPTATSPLTSYRWHTGGGGEKAAGGFRWGRFAGWGRALSHQEPMVSTQ  
PAPRSIFRRVLSAPPKESRTSRLRLSKALWGRHKNPPPEPDPEPEQEAPLEPEPELEPP  
TPQIPEAPTPNPVVDIGGFTLLDGKLVLLGGEEGPRRPRVGSASSEGIHVAMGNFRD  
PDRMPGKTEPETAGPNQVHNVRGLLRLKEKKKARLEPRDGPPSALGSRESLATLSELDL  
GAERDVRIWPLHPSLLGEPHCFQVTWTGGSRCFSCRSAAERDRWIEDLRRQFQPTQDNVE  
REETWLSVWVHEAKGLPRAAGAPGVRAELWLDGALLARTAPRAGPGQLFWAERFHFEAL  
PPARRLSLRLRGLPGSAVLGRVALALEELDAPRAPAAGLERWFPLLGAPAGAALRARIR  
ARRLRVLPSEYKELAEFLTfHYARLCGALEPALPAQAKEELAAAMVRVLRATGRAQALV  
TDLGTAELARCGREALLFRENTLATKAIDEYMKLVAQDYLQETLGQVVRRLCASTEDCE  
VDPSKCPASELPEHQARLRNSCEEVFETIIHSYDWFPaelGIVFSSWREACKERGSEVLG  
PRLVCASLFLRLCPAILAPSLFGLAPDHPAPGPARTLTIAKVIQNLANRAPFGEKEAY  
MGFMNSFLEEHPAMQCFLDQVAMVDVDAAPSGYQGSGDLALQLAVLHAQLCTIFAELDQ

TTRDTLEPLPTILRAIEEGQPVLSVPMRLPLPPAQVHSSLSAGEKPGFLAPRDLPKHTP  
LISKSQLRSVRRSESWARPRPDEERPLRRPRPVQRTQSVVRRPARRRQSAGWP RPKG  
SLSMGPAPRARPWTRDSASLPRKPSVPWQRQMDQPQDRNQALGTHRPVNKLAELQCEVAA  
LREEQKVL SRLVESLSTQIRALTEQQEQLRGQLQDLSRLRAGSSEFDSEHNLTSEGH  
LKNLEHRLNEMERTQAQLRDAVQSLQLSPRTRGSWSQPQLKAPCLNGDTT

>sp|Q8IUD2|RB6I2\_HUMAN ELKS/Rab6-interacting/CAST family member 1 OS=Homo sapiens GN=ERC1  
PE=1 SV=1

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGSGKTLSMENIQ  
SLNAAYATSGPMYLDHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIASSGVAS  
DTIAFGEHHLPPVSMAS TVPHSLRQARDNTIMDLQTLKEVLRENDLLRKDVEVKESKLS  
SSMNSIKTFWSPELKKERALRKDEASKITIWKEQYRVVQEENQHMQMTIQALQDELRIQR  
DLNQLFQQDSSSRTGEPVCAELTEENFQRLHAEHERQAKELFLLRKTLEEMELRIETQKQ  
TLNARDES IKKLEMLQSKGLSAKATEEDHERTRRLAEAEMHVHLESLEQKEKENSML  
REEMHRRFENAPDSAKTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSNGALSTEERE  
EEMQMEVYRSHSKFMKNKVEQLKEELSSKEAQWHEELKKAAGLQAEIGQVKQELSRKDT  
ELLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAAILQTEVDALRLLEEKETMLNK  
KTKIQDMAEEKGTQAGEIHDLDKMDLVKERKVNVLQKKIENLQEQLRDKEKQMSSLKER  
VKSLQADTTNTDTALTLEALAEKERTIERLKEQRDRDEREKQEEIDNYKKDLKDLKEK  
VSLLQGD LSEKEASLLDLKEHASSGLKKDSRLKTLEIALEQKKEECLKMESQLKKA  
HEAALARASPEMSDRIQHLEREITRYKDESSKAQAEVDRLEILKEVENEKNDKDKKIA  
ELERQVKDQNKVANLKHKEQVEKKSAQMLEEARREDNLNDSSQQLQDSLKKDDRIE  
ELEALRESVQITAEREMVLAQESARTNAEKQVEELLMAMEKVKQELESMAKLSSTQQ  
SLAEKETHLTNLRAERRKHLEEVLEMKQEALLAAISEKDANIALLELSSSKKTQEEVAA  
LKREKDRLVQQLKQQTQNRMKLMADNYEDDHFSSHSNQTNHKPSPDQIIQPLLELDQNR  
SKLKLYIGHLTTLCHDRDPLILRGLTPPASYNLDDDQAAWENELQKMTRGQLQDELEKGE  
RDNAELQEFANAILQQIADHCPDILEQVVNALEESS

>sp|Q8NC74|RB8NL\_HUMAN RBBP8 N-terminal-like protein OS=Homo sapiens GN=RBBP8NL PE=2 SV=3

MESFMESLNLKEIHEKEVLGLQNKLELNSERCRDAQRIEELFSKNHQLREQQKTLKEN  
LRVLENRLRAGLCRCMVTQELARKRQQEFESSHLQNLQRIFILTNEMNGLKEENETLKE  
EVKRLRGLGDRPKPRAKEGTSPPSPLLLSPSGGWKAITEKPPGGHEEAEDHQVGLRG  
EEKPAGHRTSPVAKISPGATLPESRAPDMSPQRISNLHGTTIIVVRPGSQACPADRG PAN  
GTPPPLPARSSPPSPAYERGLSDSFLRASRPSAMTHEAPKLSPKVDRLCLLNRP LSLHL  
QSPHSSPLAPAAAPSDPRLQDLKAREAEAWEEPTELLGLPSALAGMQDLRLEGALHLLLA  
QQQLRARARAGSVRPRGQPTPGEMLPSPVGS DSEGPENEGTRAALAAAGLSGGRHTQPA  
GPGRAQRTEAAATQDCALDKPLDLSEWGRARGQDTPKPAGQHGSLSAAAHTASPEPPTQ  
SGPLTRSPQALSNGTKGTRVPEQEEASTPMDPSRPLPGSQLSLSSPGSTEDEDTGRPLPP  
PHPQPPPPHQPDDLGHPEPSKAEVLRPESEDELDETDTPGSEVGLSSQAEATTSTTGEGP  
ECICTQE HGGPPRKRKRASEPGDKASKKPSRGRRKL TATEGPSRDAEDHSPSPNSSP  
WEET

>sp|Q09028|RBBP4\_HUMAN Histone-binding protein RBBP4 OS=Homo sapiens GN=RBBP4 PE=1 SV=3

MADKEAAFD DAVEERVINEEYKIWKKNTPFLYDLVMTHALEWPSLTAQWLPDVTRPEGKD  
FSIHLVLGTHTSDEQNHLVIASVQLPNDDAQFDASHYDEKGEFGGFGSVSGKIEIEIK  
INHEGEVNRARYMPQNCIIATKTPSSDVLVFDYTKHPSKPDPSGECNPDRLRLRGHQKEG  
YGLSWNP NLSGHLLSASDDHTICLWDISAVPKEGKVVDAKTIFTGHTAVVEDVSWHLLHE

SLFGSVADDQKLMIWDTRSNNTSKPSHSVDAHTAEVNCLSFNPYSEFILATGSADKTVAL  
WDLRNLKLLHSFESHKDEIFQVQWSPHNETILASSGTDRLNVWDLKIGEEQSPEDAE  
DGPPELLFIHGGHTAKISDFSWNPNEPWVICSVSEDNIMQVWQMAENIYNDEDPEGSVDP  
EGQGS

>sp|Q9Y3P9|RBGP1\_HUMAN Rab GTPase-activating protein 1 OS=Homo sapiens GN=RABGAP1 PE=1  
SV=3

MDDKASVGKISVSSDSVSTLNSEDFVLVSRQDETPTSTNNGSDDEKTGLKIVGNGSEQQL  
QKELADVLMDPPMDDQPGEKELVKRSQLDGEGLSNQLSASSTINPVPLVGLQKPEMS  
LPVKPGQGDEASSPFTPVADEDSVVFSSKLTYLGCASVNAPRSEVEALRMSILRSQCQI  
SLDVTLSVPNVSEGIVRLDLPQTNTEIANYPYKILFCVRGHDGTPESDCFAFTESHYNA  
ELFRIHVFRCEIQEAVSRILYSFATAFRRSKQTPLSATAAPQTPDSDIFTFSVSLEIKE  
DDGKGYSAPVKDKDRQCFKLRQIDKKIVYVQQTTNKELAIERCFLLLSPGKDVRNS  
DMHLLDLESMGSSDGKSYVITGSWNPKSPHFQVVNEETPKDKVLFMTTAVDLVITEVQE  
PVRFLLETKVRVCSNERLFWPFSSKRSTTENFFLKLKQIKQRERKNNTDTLYEVVLESE  
SERERRKTASPVRLPQSGSQSSVIPSPPEDEEEDNDEPLLSGSGDVSKECAEKILET  
WGELLSKWHLNLRNRPKQLSSLVRNGVPEALRGEVWQLLAGCHNNDHLVEKYRILITKES  
PQDSAITRDINRTFPAHDYFKDTGGDQDSLYKICKAYSVDDEEIGYCQGSFLAAVLLL  
HMPEEQAFSVLVKIMFDYGLRELKQNFEDLHCKFYQLERLMQEYIPDLYNHFLDISLEA  
HMYASQWFLTLFTAKFLYMFVHIIDLLLCEGISVIFNVALGLLKTSKDDLLLTDLEGAL  
KFRVQLPKRYRSEENAKKLMELACNMKISQKKLKKYEKEYHTMREQQAQQEDPIERFER  
ENRRLQEANMRLEQENDLAHELVTSKIALRKDLDAEEKADALNKELLMTKQKLIDAE  
EKRRLEESAQLKEMCRRELDKAESEIKKNSSIIGDYKQICSQLSERLEKQQTANKVEIE  
KIRQVDDCERCREFFNKEGRVKGISSTKEVLDEDTDEEKETLKNQLREMELELAQTKLQ  
LVEAECKIQDLEHHLGLALNEVQAAKKTWFNRTLSSIKTATGVQKQETC

>sp|Q9H2M9|RBGPR\_HUMAN Rab3 GTPase-activating protein non-catalytic subunit OS=Homo  
sapiens GN=RAB3GAP2 PE=1 SV=1

MACSIVQFCYFQDLQAARDFLPHLREEILSGALRRDPSKSTDWEDDGWGAWEENEPQEP  
EEEGNTCKTQKTSWLQDCVLSLPTNDLMVIAREQKAVFLVPKWYSDKGKEEMQFAVGW  
SGSLNVEEGECVTSALCIPLASQKRSSTGRPDWTCIVVGFTSGYVRFYTENGVLALLAQLL  
NEDPVLQKCRTYEIPRHPGVTEQNEELSILYPAAIVTIDGFSLFQSLRACRNQVAKAAA  
SGNENIQPPPLAYKKWGLQDIDITIIDHASVGIMTLSPFDQMKTASNIGGFNAAIKNSPPA  
MSQYITVGSNPFTEGFFYALEGSTQPLLSHVALAVASKLTSALFNAASGWLGWKSKHEEEA  
VQKQPKVEPATPLAVRFGLPDSRRHGESICLSPCNTLAAVTDDFGRVILLDVARGIAIR  
MWKGYRDAQIGWIQTVEDLHERVPEKADFSPFGNSQGSPSRVAQFLVIYAPRRGILEVWST  
QQGPRVGAFNVGKHCRLLYPGYKIMGLNNVTSQSWQPQTYQICLVDPVSGSVKTVNVPFH  
LALSDKKSERAKDMLVKKLAALLKTKSPNLDLVETEIKELILDIKYPATKKQALESILA  
SERLPFSCLRNIQTLMDTLKSQELESVDEGLLQFCANKLKLQLYESVSQLNSLDFHLD  
TPFSDNDLALLRLDEKELLKLQALLEKYKQENTRTNVRFSDDKDGVLVPKTFLEYLEYE  
KDVLNKIKISEEEYVALGSFFFWKCLHGESSSTEDMCHTLESAGLSPQLLLSLLSVWLSK  
EKDILDKPQSIICLHTMLSLLSKMKVAIDETWDSQSVSPWWQQMRTACIQSENNGAALLS  
AHVGHSVAAQISNNMTEKKFSQTVLGADSEALTDSWEALSLDTEYWKLLLKQLEDCLILQ  
TLLHSGKNTQTSKVSSLQAEPLPRLSVKKLEGGKGGIADSVAKWIFKQDFSPEVLKLAN  
EERDAENPDEPKEGVNRSFLEVSEMEMDLGAIPDLLHLAYEQFPCSLELDVLHAHCCWEY  
VVQWNKDPEEARFFVRSIEHLKQIFNAHVQNGIALMMWNTFLVKRFSAAATYLMDKVGKSP

KDRLCRRDVGMSDTAMTSFLGSCDLLQILMEADVSRDEIQVPVLDTEDAWLSVEGPISI  
VELALEQKHIHYPLVEHHSILCSILYAVMRFSCLKTVKPLSLFDSKGKNAFFKDLTSIQLL  
PSGEMDPNFISVRQQFLKVVSAAVQAQHSATKVKDPTEEATPTPFGKDQDWPALAVDLA  
HHLQVSEDVVRHHYVGYELNYGVVDHLGEEAILQVHDKEVLASQLLVLTGQRLAHALLHTQ  
TKEGMELLARLPPTLCTWLKAMPQDLQNTVEPIATTAKLVNKVIELLPEKHGQYGLALH  
LIEAVEAISLPSL

>sp|Q96PK6|RBM14\_HUMAN RNA-binding protein 14 OS=Homo sapiens GN=RBM14 PE=1 SV=2

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RPGRALVVEMSRPRPLNTWKIFVGNVSAACTSQELRSLFERRGRVIECDVVKYAFVHME  
KEADAKAAIAQLNGKEVKGRINVELSTKGQKKGPGLAVQSGDKTKKPGAGDTAFPGTGG  
FSATFDYQQAFGNSTGGFDGQARQPTPPFFGRDRSPLRRSPPRASYVAPLTAQPATYRAQ  
PSVSLGAAAYRAQPSASLGVGYRTQPMTAQAASYRAQPSVSLGAPYRGQLASPSSQSAAS  
SLGPYGAQPSASALSSYGGQAAAASSLNSYGAQGSSLASYGNGPSSYGAQAASSYGVRA  
AASSYNTQGAASSLSYGAQAASYGAQSAASSLAYGAQAASYNAPASYNAPYAAQ  
QAASYSSQPAAYVAQPATAAAYASQPAAYAAQATTPMAGSYGAQPVVQTLNSYGAQASM  
GLSGSYGAQSAAAATGSYGAAYGAQPSATLAAPYRTQSSASLAASYAAQHPQAAASY  
RGQPGNAYDGAGQPSAAYLSMSQGAVANANSTPPPYERTRLSPPRASYDDPYKKAVAMSK  
RYGSDRRLAELSDYRRLSESQLSFRRSPTKSSLDYRRLPDAHSDYARYSGSYNDYLRAAQ  
MHSGYQRRM

>sp|Q9Y4C8|RBM19\_HUMAN Probable RNA-binding protein 19 OS=Homo sapiens GN=RBM19 PE=1 SV=3

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HFNKSFIDTSRITVEFCKSFGDPAKPRAWKHAQKPSQPKQPPKDSTTPEIKKDEKKKKV  
AGQLEKLKEDTEFQEFLSVHQRRQAATWANDGLDAEPSKGKSKPASDYLNFDSDSGQES  
EEEGAGEDLEEEASLEPKAAVQKELSDMDYLKSKMVKAGSSSSSEEESEDEAVHCDEGS  
EAEEDSSATPVLQERDSKGAGQEQQMPAGKKRPPEARAEKTPANQKEPTTCHTVKLRG  
APFNVTEKNVMEFLAPLKPVAIRIVRNAHGKNTGYIFVDFSNEEEVKQALKCNREYMGGR  
YIEVFREKNVPTTKGAPKNTTKSWQGRILGENEEEEEDLAESGRLFVRNLPYTSTEEDLEK  
LFSKYGPLSELHYPIDSLTKPKGFAFITFMFPEHAVKAYSEVDGQVFQGRMLHVLPISTI  
KKEASEDASALGSSSYKKKKEAQDKANSASSHNWNTLFMGPNVADAIQKYNATKSQVF  
DHETKGSVAVRVALGETQLVQEVRRFLIDNGVSLDSFSQAAAERSKTVILVKNLPAGTLA  
AQLQETFGHFGSLGRVLLPEGGITAIVEFLEPLEARKAFRHLAYSKFHHVPLYLEWAPVG  
VFSSTAPQKKKLQDTPSEPMEKDPAEPETVPDGETPEDENPTEEGADNSSAKMEEEEEEE  
EEEEESLPGCTLFIKNLNFDTTEEKLKEVFSKVGTVKSCSISKKNKAGVLLSMGFGFVE  
YRKPEQAQKALKQLQGHVVDGHKLEVRISERATKPAVTLARKKQVPRKQTTSKILVRNIP  
FQAHSREIRELFSTFGELKTVRLPKMTGTGTHRGFGFVDFLTKQDAKRAFNLCHSTHL  
YGRRLVLEWADSEVTLQALRRKTAAHFHEPPKKKRSVVLDEILEQLEGSDSDSEEQTLQL

>sp|Q86U06|RBM23\_HUMAN Probable RNA-binding protein 23 OS=Homo sapiens GN=RBM23 PE=1 SV=1

MASDDFDIVIEAMLEAPYKKEEDEQQRKEVKKDYPNNTSSTNSNETSGSSTIGETSK  
KKRSRSHNKSRRKRSRDRDRYRRNRSRSPGRQCRHRSRSWDRRHGSESRSRDHRR  
EDRVHYRSPPLATGYRYGHSKSPHFREKSPVREPVDNLSPEERDARTVFCMQLAARIRPR  
DLEDFFSAVGKVRDVRIISDRNSRRSKGIAYVEFCEIQSVPLAIGLTGQRLGVPIIVQA  
SQAENRLAAMANNLQKGNMGPMRLYVGS�HFNITEDMLRGIFEPFGKIDNIVLMKDSDT  
GRSKGYGFITFSDSECARRALEQLNGFELAGRPMRVGHVTERLDGGTDITFPDGDQELDL  
GSAGGRFQLMAKLAEGAGIQLPSTAAAAAQAALQLNGAVPLGALNPAALTALSPA

LNLASQCFQLSSLFTPQTM

>sp|P49756|RBM25\_HUMAN RNA-binding protein 25 OS=Homo sapiens GN=RBM25 PE=1 SV=3

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VGKHLGARKDHPGLKAKENDENCGPTTTTFVGNISEKASDMLIRQLLAKCGLVLSWKRVQ  
GASGKLQAFGFCEYKEPESTLRALRLHDLQIGEKLLVKVDAKTKAQLDEWKAKKKASN  
GNARPETVTNDDEEALDEETKRDDQMIKGAIEVLIREYSSELNAPSQESDSHPRKKKKEK  
KEDIFRRFPVAPLIPYPLITKEDINAIEEEDKRD LISREISKFRDTHKKLEEEKGKKEK  
ERQIEKERREREREREREREREREREREREREKEKERERERERDRDRDRTKERDRD  
RDRERDRDRDRERSDDRNRKDRSRSEKSRDRERERERERERERERERERERERERE  
REREREKDKKRDREDEEDAYERRKLERKLEKEAAYQERLKNWEIRERKKTREYEKEAE  
REEERRREMAKEAKRLKEFLEDYDDDDPKYYRGSALQKRLRDREKEMEADERDRKREK  
EELEEIRQLLAEGHPDPAELQRMEQEAERRRQPIKQEPESEEEEEEKQEKEEKREEP  
MEEEEEPEQKPCCLKPTLRP ISSAPSVSSASGNATPNTPGDESPCGIIIPHENSPDQQQPE  
EHRPKIGLSLKL GASNSPGQPN SVKRKKLPVDSVFNKFEDESDDVPRKRKL VPLDYGED  
DKNATKGT VNTTEKRKHISLIEKIPTAKPELFAYPLDWSIVDSILMERRIRPWINKKII  
EYIGEEEA TLVDFVCSKVMAHSSPQSILDDVAMVLDEEA EVFIVKMWRLLIYETEAKKIG  
LVK

>sp|Q9NW13|RBM28\_HUMAN RNA-binding protein 28 OS=Homo sapiens GN=RBM28 PE=1 SV=3

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ALKEITTFEGCKINVTVAKKKLNRNKTKEGKNENSECPKKEPKAKKAKVADKKARLIIRN  
LSFKCEDDLKT VFAQF GAVLEVNIPRKP DGKMRGFGFVQFKNLLEAGKALKGMNKEIK  
GRTVAVDWAVAKDKYKDTQSVSAIGEEKSHESKHQESVKKKGREEEDMEEEEENDDDDDD  
DEEDGVFDDDEEEEEENIESKVT KPVQIQKRAVKRPAPAKSSDHSEEDSDLEESDSIDDGE  
ELAQSDTSTEEQEDKAVQVSNKKRKLPSDVNEGKTVFIRNLSFDSEEEELGELLQQFGE  
LKYVRIVLHPDTEHSGCAFAQFMTQEAQKCLLAASPENEAGGLKLDGRQLKVDLAVTR  
DEAAKLQTTKVKKPTGTRNLYLAREGLIRAGTKAAEGVSAADMAKRERFELLKHQKLKDQ  
NIFVSRTRLCLHNLPAVDDKQLRKLLSATSGEKGVRIE CRVMRDLKGVHGNMKGQSL  
GYAFAEFQEHEHALKALRLINNPEIFGPLKRPIVEFSLEDRRKLKMKELRIQRSLQKMR  
SKPATGEPQKGQPEPAKDQQQKAAQHHTEEQSKVPPEQKRKAGSTSWTGFQTKAEVEQVE  
LPDGKKRRKVLALPSHRGPKIRL RDKGKVKPVHPKKPKPQINQWKQEKQQLSSEQVSRKK  
AKGNKTETRFNQLVEQYKQKLLGPSKGAPLAKRSKWFD

>sp|P52756|RBM5\_HUMAN RNA-binding protein 5 OS=Homo sapiens GN=RBM5 PE=1 SV=2

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ERERERRNSDRSEDGYHSDGDYGEHDYRHDISDERESKTI MLRGLPITITESDI REMMES  
FEGPQPADVRLMKRKTGVS RGF AFVEFYHLQDATSWMEANQKKLVIQGKHIA MHYSNRP  
KFEDWLCNKCCLNNFRKRLKCFRCGADKFDSEQEVPPGTTESVQSVDYCDTIILRN IAP  
HTV VDSIMTALSPYASLAVNNIRLIKDKQTQQNRGFAFVQLSSAMDASQLLQILQSLHPP  
LKIDGKTIGVDFAKSARKDLVLSDGNRVSAFSVASTAIAAAQWSSTQSQSGEGGSVDYSY  
LQPGQDGYAQYAYSQDYQQFYQQAGGLES DASSASGTAVTTTSAAVVSQSPQLYNQTS  
NPPGSPTEEAQPSTSTSTQAPAASPTGVVPGTKYAVPDTSTYQYDESSGYYYDPTTGLYY  
DPNSQYYYNLSLTQQYLYWDGEKETVYPAAESSHQSGLPAPAKEGKEKKEKPKSKTAQQI  
AKDMERWAKSLNKQENFKNSFPVNSLREEERRESAAADAGFALFEKKGALAERQQLIP  
ELVRNGDEENPLKRGLVAAYS GSDNNEELVERLESEEEKLADWKKMACLLCRRQFPNKD  
ALVRHQQLSDLHKQNMDIYRRSRLSEQELEALELREREMKYRDRAAERREKYGIPEPPEP

KRKKQFDAGTVNIEQPTKDGIDHSNIGNKMLQAMGWREGSLGRKCQGITAIEAQVRLK  
GAGLGAKGSAYGLSGADSYKDAVRKAMFARFTEME

>sp|P49792|RBP2\_HUMAN E3 SUMO-protein ligase RanBP2 OS=Homo sapiens GN=RANBP2 PE=1 SV=2

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KAHRFLGLLYELEENTDKAVECYRRSVELNPTQKDLVLKIAELLCKNDVTDGRAKYWLER  
AAKLFPGPSAIIYKLKEQLLDCEGEDGWNKLFDLIQSELYVRPDDVHVNIIRLVEVYRSTKR  
LKDAVAHCHEAERNIALRSSLEWNSCVVQTLKEYLESQCLESKSDWRATNTDLLLAYA  
NLMLLTSTRDVQESRELLQSFDSALQSVKSLGGNDELSATFLEMKGHFYMHAGSLLLKM  
GQHSSNVQWRALSELAALCYLIAFQVPRPKIKLIKGEAGQNLEMMACDRLSQSGHMLLN  
LSRGKQDFLKEIVETFANKSGQSALYDALFSSQSPKDTSLFGSDDIGNIDVREPELEDLT  
RYDVGAIKRAHNGSLQHLTWLGLQWNSLPALPGIRKWLKQLFHHLPHETSRLTNAPESIC  
ILDLEVFLLGVVYTSHLQLKEKCNSSHSSYQPLCLPLPVCKQLCTERQKSWWDVCTLIH  
RKAVPGNVAKLRLLVQHEINTLRAQEKHGLQPALLVHWAECQKTGSGLNSFYDQREYIG  
RSVHYWKKVPLLLKIKKKNSIPEPIDPLFKHFHSVDIQASEIVEYEEDAHITFAILDAV  
NGNIEDAVTAFESIKSVVSYWNLALIFHRKAEDIENDALSPEEQEECKNYLRKTRDYLIK  
IIDDSNLSVVKKLVPVLESVKEMLSVMQELEDYSEGGLYKNGSLRNADSEIKHSTP  
SPTRYSLSPSKSYKYSKPTPPRWAEDQNSLLKMICQQVEAIKKEMQELKLNSSNSASPHR  
WPTENYGPDSVPDGYQGSQTFHGAPLTVATTGPSVYYSQSPAYNSQYLLRPAANVTPTKG  
PVYGMNRLPPQQHIYAYPQQMHTPPVQSSSACMFSQEMYGPPALRFESPATGILSPRGDD  
YFNYNVQQTSTNPPLPEPGYFTKPPIAAHASRSAESKTIIEFGKTNFVQPMPEGELRPSLP  
TQAHTTQPTPFKFNFSNFKSNDGDTFSSPQVVTQPPAAYSNSESLLGLLTSKPLQGDG  
YSGAKPIPGGQTIGPRNTFNFGSKNVSGISFTENMGSSQKNSGFRSDDMFTFHGPGKS  
VFGTPTLETANKNHETDGGSAHGDDDDGPHFEPVVPDPKIEVKTEGEDEEEFFCNRAK  
LFRFDVESKEWKERGIGNVKILRHKTSKGIIRLLMRREQVLKICANHYSISPMKLTNPAGS  
DRSFVWHALDYADELPKPEQLAIRFKTPEEAALFKCKFEEAQSIKAPGTNVAMASNQAV  
RIVKEPTSHDNKDICKSDAGNLFQVAKKEGSSWWHCNSCSLKNASTAKKCVSCQNLNP  
SNKELVGPPLAETVFTPKTSPENVQDRFALVTPKKEGHWDCSICLVRNEPTVSRCIACQN  
TKSANKSGSSFVHQASFQKFGDLPKPINSDFRSVFSTKEGQWDCSACLQNEGSSTKCA  
ACQNPRKQSLPATSIPTPASFKFGTSETSKTLKSGFEDMFAKKEGQWDCSSCLVRNEANA  
TRCVACQNPDKPSPSTSVPAASFKFGTSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNE  
ASATKCIACQNPGKQNTTSAVSTPASSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEA  
SATKCIACQNPGKQNTTSAVSTPASSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEAS  
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CVACDASKPTHKPIAEPSAFTLGSEMKLHDSSGSQVGTGFKSNFSEKASKFGNTEQGFK  
FGHVDQENSPSFMFQSSNTEFKSTKEGFSIPVSADGFKFGISEPGNQEKKSEKPLENGT  
GFQAQDISGQKNRGVIFGQTSSTFTFADLAKSTSGEGFQFGKDPNFKGFSGAGEKLFS  
SQYGMANKANTSGDFEKDDDAYKTEDSDDIHFEFVVQMPEKVELVTGEEDEKVLYSQRV  
KLFRFDAEVSQWKERGLGNLKIILKNEVNGKLRMLMRREQVLKVCANHWITTTMNLKPLSG  
SDRAWMWLASDFSDGAKLEQLAAFKTPELAEFEKQKFEECQRLLLDIPLQTPHKLVD  
GRAAKLIQRAEEMKSLKDFKTFLTNDQTKVTEENKSGTGAAGASDTTIKPNPENTGP  
TLEWDNYDLREDALDDSVSSSVHASPLASSPVRKNLFRFGESTTGFNFSFKSALSPSKS  
PAKLNQSGTSVGTDEESDVTQEEERDQGYFEPVVPDLVEVSSGEENEQVVFSHRAKLY  
RYDKDVQGWKERGIGDIKILQNYDNKQVRIVMRRDQVLKLCANHRITPDMTLQNMKGTER  
VWLWTACDFADGERKVEHLAVRFKLQDVADSFKKIFDEAKTAQEKDSLITPHVSRSSTPR

ESPCGKIAVAVLEETTRERTDVIQGDDVADATSEVEVSSTSETTPKAVVSPKFFVFGSES  
VKSIFSSEKSKPFAFGNSSATGSLFGFSFNAPLKSNSETSSVAQSGSESKVEPKCELS  
KNSDIEQSSDSKVKNLFAFPTEESSINYTFKTPEKAKEKKKPEDSPSDDDLIVYELTP  
TAEQKALATKLLPPTFFCYKNRPDYVSEEEEDDEFETAVKKLNGKLYLDGSEKCRPLE  
ENTADNEKECIIVWEKKPTVEEKAKADTLKLPPTFFCGVCSDTDEDNGNGEDFQSELQKV  
QEAQKSQTEEITSTTDSVYTGGETVMVPSFCKSEEPDSITKSISSPSVSSETMDKPVCLS  
TRKEIDTDSQGESKIVSFGFSSTGLSFADLASSNSGDFAFGSKDNFQWANTGAAVF  
GTQSVGTQSAGKVEDEEDGSDEEVVHNEDIHFEPVSLPEVEVKSGEEDDEILFKERAKL  
YRWRDVSQWKERGVGDIKILWHTMKNYYRILMRRDQVFKVCANHVITKTMELKPLNVSN  
NALVWTASDYADGEAKVEQLAVRFKTEKADCFKKTFECCQQLMKLQKGHVSLAAELSK  
ETNPVVFDFVADGEPLGRITMELFSNIVPRTAENFRALCTGEKGFVKNSIFHRVIPDF  
VCQGGDITKHDGTGGQSIYGDKFEDENFDVKHTGPGLLSMANQGQNTNNSQFVITLKKAE  
HLDFKHVVVFGFVKDGMDTVKKIESFGSPKGSVCRRITITECGQI

>sp|PODJD3|RB1A\_HUMAN RNA-binding motif protein, Y chromosome, family 1 member A1 OS=Homo sapiens GN=RBMY1A1 PE=1 SV=1

MVEADHPGKLFIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFATITFENPAD  
AKNAAKDMNGKSLHGKAIKVEQAKKPSFQSGGRRRPPASSRNRSPGSLRSARGSRGGTR  
GWLPSHEGHLDDGGYTPDLKMSYSRGLIPVKRGPSSRSGGPPPKKSAPSAVARSNSWMGS  
QGPMSQRRENYGVPPRRATISSWRNDRMSTRHDGYATNDGNHPSCQETRDYAPPSRGYAY  
RDNGHSNRDEHSSRGYRNRSSRETRDYAPPSRGHAYRDYGHSSRDESYSGYRNRSSR  
ETREYAPPSRGHGYRDYGHSSRHEYSRGRNHPSSRETRDYAPPHRDYAYRDYGHSSWD  
EHSSRGYSYHDGYGEALGRDHSEHLSGSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA  
YSNTRDRYGRSWESYSSCGDFHYCDREHVCCKDQRNPPSLGRVLPDPREACGSSSYVASI  
VDGGESRSEKGDSSRY

>sp|A6NEQ0|RB1E\_HUMAN RNA-binding motif protein, Y chromosome, family 1 member E OS=Homo sapiens GN=RBMY1E PE=2 SV=1

MVEADHPGKLFIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFATITFENPAD  
AKNAAKDMNGKSLHGKAIKVEQAKKPSFQSGGRRRPPASSRNRSPGSLRSARGSRGGTR  
GWLPSQEGHLDDGGYTPDLKMSYSRGLIPVKRGPSSRSGGPPPKKSAPSAVARSNSWMGS  
QGPMSQRRENYGVPPRRATISSWRNDRMSTRHDGYATNDGNHPSCQETRDYAPPSRGYAY  
RDNGHSNRDEHSSRGYRNRSSRETRDYAPPSRGHAYRDYGHSSRDESYSGYRNRSSR  
ETREYAPPSRGHGYRDYGHSSRHEYSRGRNHPSSRETRDYAPPHRDYAYRDYGHSSWD  
EHSSRGYSYHDGYGEALGRDHSEHLSGSSYRDALQRYGTAHGAPPARGPRMSYGGSTCHA  
YSNTRDRYGRSWESYSSCGDFHYCDREHVCCKDQRNPPSLGRVLPDPREACGSSSYVASI  
VDGGESRSEKGDSSRY

>sp|Q9HBD1|RC3H2\_HUMAN Roquin-2 OS=Homo sapiens GN=RC3H2 PE=1 SV=2

MPVQAAQWTEFLSCICYNEFDENVHKPISLGSHTVCKTCLNKLHRKACPFQDTAINTD  
IDVLPVNFALLQLVGAQVPDHSIKLSNLGENKHVEVAKKCEDLALYLKPLSGGKGVAS  
LNQSALSRPMQRKLVTLVNCQLVEEGRVRAMRAARSLGERTVTELILQHQNPPQLSANL  
WAAVRARGCQFLGPAMQEEALKLVLLALEDGSALSRKVLVLFVVQRLEPRFPQASKTSIG  
HVVQLLYRASCVKVTKRDESSLMQLKEEFRSYEALRREHDAQIVHIAMEAGLRISPEQW  
SSLLYGDLAHKSHMQSIIDKLQSPESFAKSVQELTIVLQRTGDPANLNRRLPHLELLANI  
DPNPDAVSPTWEQLENAMVAVKTVVHGLVDFIQNYSRKGHETPQPQPNKYKTSMCRDLR  
QQGGCPRGTNCTFAHSQEELEKYRLRNKKINATVRTFPLLNKVGVNNTVTTAGNVISVI



MAELVPFAVPIESDKTLLVWELSSGPTAEALHHSFLTAFSQFGLLYSVRVFPNAAVAHPG  
FYAVIKFYSARAAHRAQKACDRKQLFQKSPVKVRLGTRHKAVQHQAALNSSKCQELANY  
YFGFNGCSKRIIKLQELSDLEERENEDSMVPLPKQSLKFFCALEVVLPSCDCRSPGIGLV  
EPPMDKVEEGPLSFLMKRKTAKLAIQKALSDAFQKLLIVVLESGKIAVEYRPSEDIVGV  
RCFEELHGLIQVPCSPWKQYGGQEEGYLSDFSLEEEEFRLPELD

>sp|Q7Z4M0|REC114\_HUMAN Meiotic recombination protein REC114 OS=Homo sapiens GN=REC114 PE=2 SV=2

MAEAGKVPLSLGLTGGEAAEWPLQRYARCIPSNTRDPPGPCLEAGTAPCPTWKVFDSENE  
SGYLVLTIVISGHFFIFQGQTLLLEGFSLIGSKDWLKIVRRVDCLLFGTTIKDKSRLFRVQ  
FSGESKEQALEHCCSCVQKLAQYITVQVPDGNIQELQLIPGPPRATESQGKDSAKSVPRQ  
PGSHQHSEQQQVCVTAGTGAPDGRSLTQLAQTLTLLASEELPHVYEQSAWGAEELGPFLRL  
CLMDQNFPAFVEEVEKELKKLAGLRN

>sp|P61578|REC16\_HUMAN Endogenous retrovirus group K member 16 Rec protein OS=Homo sapiens GN=ERVK-16 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPSSHKMNKMMSEEQMKLPSTNKAELPTWAQLNKLTQLA  
TKCLENTKMTQTPESMLLAALMIVSTVSAGVPNSSEETVTIENG

>sp|P61571|REC21\_HUMAN Endogenous retrovirus group K member 21 Rec protein OS=Homo sapiens GN=ERVK-21 PE=1 SV=1

MHPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEQMKLPSTKKAEPPTWAQLKKLTQLAT  
KYLENTKVTQTPESMLLAALMIVSMVSAGVPNSSEETATIENG

>sp|Q69383|REC6\_HUMAN Endogenous retrovirus group K member 6 Rec protein OS=Homo sapiens GN=ERVK-6 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSAGVPNSSEETATIENG

>sp|P22695|QCR2\_HUMAN Cytochrome b-c1 complex subunit 2, mitochondrial OS=Homo sapiens GN=UQCRC2 PE=1 SV=3

MKLLTRAGSFSRFYSLKVAPKVKATAAPAGAPPQPQDLEFTKLPNGLVIASLENYSPVSR  
IGLFIKAGSRYEDFSNLGTHLLRLTSSLTTKGASSFKITRGIEAVGGKLSVTATRENMA  
YTVECLRGDVIDLMEFLLNVTTAPEFRRWEVADLQPQLKIDKAVAFQNPQTHVIENLHAA  
AYRNALANPLYCPDYRIGKVTSEELHYFVQNHFTSARMALIGLVSHPVLKQVAEQFLNM  
RGGLGLSGAKANYRGGEIREQNGDSLVAHFVAESAVAGSAEANAFSVLQHVLGAGPHVK  
RGSNTTSHLHQAVAKATQQPFDVSFNASYSDSGLFGIYTISQATAAGDVIKAAYNQVKT  
IAQGNLSNTDVAAKNKLKAGYLSVESSECFLEEVGSQALVAGSYMPPSTVLQQIDSV  
NADIINAAKKFVSGQKSMAASGNLGHPTPFVDEL

>sp|O15541|R113A\_HUMAN RING finger protein 113A OS=Homo sapiens GN=RN113A PE=1 SV=1

MAEQLSPGKAVDQVCTFLFKKPGRKGAGRRKRPACDPEPGESGSSSDEGCTVVRPEKKR  
VTHNPMIQKTRDSGKQKAAYGDLSEEEEEENEPESLGVVYKSTRSAKPVGPEDMGATAVY  
ELDTEKERDAQAIFERSQKIQEELRGKEDDKIYRGINNYQKYMKPKDTSMGNASSGMVRK  
GPIRAPEHLRATVRWDYQPDICKDYKETGFCGFGDSCKFLHRSYKHGWQIERELDEGR  
YGVYEDENYEVGSDDEEIPFKCFICRQSFQNPVVTCKRHYFCESCALQHFRTPRCYVCD  
QQTNGVFNPAKELIAKLEKHRATGEGGASDLPEDPDEDAIPIT

>sp|Q59GN2|R39L5\_HUMAN Putative 60S ribosomal protein L39-like 5 OS=Homo sapiens GN=RPL39P5 PE=5 SV=2

MSSHKTFKIKQFLAKKQKQNRPIQWIRMTGNKIRYNSKRRHWKRTKLGL

>sp|P20336|RAB3A\_HUMAN Ras-related protein Rab-3A OS=Homo sapiens GN=RAB3A PE=1 SV=1

MASATDSRYGQKESDQNFDFYMFKILIGNSSVGKTSFLFRYADDSFTPAFVSTVGIDFK  
VKTIYRNDKRIKLQIWDTAGQERYRTITTAYYRGAMGFILMYDITNEESFNAVQDWSTQI  
KTYSWDNAQVLLVGNKCDMEDERVVSSERGRQLADHLGFEFFEASAKDNINVKQTFERLV  
DVICEKMSESOLDTADPAVTGAKQGPQLSDQQVPPHQDCAC

>sp|Q9H0N0|RAB6C\_HUMAN Ras-related protein Rab-6C OS=Homo sapiens GN=RAB6C PE=1 SV=2

MSAGGDFGNPLRKFLVFLGEQSVAKTSLITRFYDSFDNTYQAIIGIDFLSKTMYLEDG  
TIGLRLWDTAGQERLRLSLIPRYIRDSAAAVVYDITNVNSFQQTTKWIDDVTERGSDVI  
ITLVGNRTDLADKRQVSVEEGERKAKGLNVTFIETRAKAGYNVKQLFRRVAAALPGMEST  
QDGSREDMSDIKLEKPQEQTVSEGGCSCYSPMSSSTLPQKPPYSFIDCSVNIGLNLFPSL  
ITFCNSSLLPVSWR

>sp|P61006|RAB8A\_HUMAN Ras-related protein Rab-8A OS=Homo sapiens GN=RAB8A PE=1 SV=1

MAKTYDYLFKLLIGDSGVGKTCVLF RFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQ  
IWDTAGQERFRTITTAYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILG  
NKCDVNDKRQVSKERGEKLALDYGIFMETSAKANINVENAFFTLARDIKAKMDKKLEGN  
SPQGSNQGVKITPDQKKRSSFFRCVLL

>sp|P29762|RABP1\_HUMAN Cellular retinoic acid-binding protein 1 OS=Homo sapiens GN=CRABP1  
PE=1 SV=2

MPNFAGTWKMRSSSENFDELLKALGVNAMLRKVAVAAASKPHVEIRQGDQFYIKTSTTVR  
TTEINFKVGEFEEETVDGRKCRSLATWENENKIHCTQTLLEGDGPKTYWTRELANDELI  
LTFGADDVVCTRIYVRE

>sp|Q92698|RAD54\_HUMAN DNA repair and recombination protein RAD54-like OS=Homo sapiens  
GN=RAD54L PE=1 SV=2

MRRSLAPSQLAKRKPEGRSCDDEDWQPLVTPRKRKSSSETQIQECFLSPFRKPLSQLTN  
QPPCLDSSQHEAFIRSILSKPFKVP IPNYQGGLSRALGLKRAGVRRALHDPLEKDALVL  
YEPPPLSAHDQLKDKEKLPVHVVDPIILSKVLRPHQREGVKFLWECVTSRRIPGSHGCI  
MADEMGLGKTLQCITLMWTLRLQSPCEKPEIDKAVVSPSSLVKNWYNEVGKWLGGRIQP  
LAIDGGSKDEIDQKLEGFMNQRGARVSSPILII SYETFRLHVGV LQKGSVGLVICDEGHR  
LKENSENTYQALDSLNTSRRVLISGTP IQNDLLEYFSLVHFVNSGILGTAHEFKKHFELP  
ILKGRDAAASEADRQLGEERLRELTSIVNRCLIRRTSDILSKYLPVKIEQVVCRLTPLQ  
TELYKRFLRQAKPAEELLEGMSSVSSLSITSLKKLCNHPALIYDKCVEEEDGFGALDL  
FPPGYSSKALEPQLSGKMLVLDYILAVTRSRSSDKVVLVSNYTQTLDLFEKLCRARRYLY  
VRLDGTMSIKKRAKVVERFNSPSPDFVFM LSSKAGGCGLNLIGANRLVMFDPDWNPNAND  
EQAMARVWRDQKKTCYIYRLSAGTIEEKIFQRQSHKKALSSCVDEEQDVERHFSLGE  
LKELFILDEASLSDTHDRHLHCRRCVNSRQIRPPPDGSDCTSDLAGWNHCTDKWGLRDEVL  
QAAWDAASTAITFVFHQRSHEEQRGLR

>sp|Q99638|RAD9A\_HUMAN Cell cycle checkpoint control protein RAD9A OS=Homo sapiens  
GN=RAD9A PE=1 SV=1

MKCLVTGGNVKVLGKAVHSLSRIGDELYLEPLEDGLSLRTVNSSRSAYACFLFAPLFFQQ  
YQAATPGQDLLRCKILMKSFLSVFRSLAMLEKTVEKCCISLNGRSSRLVVQLHCKFGVRK  
THNLSFQDCESLQAVFDPASCPHMLRAPARVLGEAVLPFSPALAEVTLGIGRGRVILRS  
YHEEADSTAKAMVTEMCLGEEDFQQLQAQEGVAITFCLKEFRGLLSFAESANLNSIHF  
DAPGRPAIFTIKDSLDDGHFVLATLSDTDSHSQDLGSPERHQVPVQLQAHSTPHPDFFAN  
DDIDSYMAMETTIGNEGSRLPSISLSPGPQPPKSPGPHSEEEDEAEPSTVPGTPPPKK  
FRSLFFGSILAPVRSPQGPSPVLAEDSEGE

>sp|P55042|RAD\_HUMAN GTP-binding protein RAD OS=Homo sapiens GN=RRAD PE=1 SV=2

MTLNGGSGAGGSRGGGQERERRRGSTPWGPAPPLHRRSMPVDERDLQAALTPGALTAAA  
AGTGTQGPRLDWPEDSEDSLSSGGSDSDSVYKVL LLGAPGVGKSALARIFGGVEDGPEA  
EAAGHTYDRSIVVDGEEASLMVYDIWEQDGRWLPGHCMAMGDAYVIVYSVTDKGSFEKA

SELRVQLRRARQTDDVPIILVGNKSDLVRSREVSVDGRACAVVFDCKFIETSAALHHNV  
QALFEGVVRQIRLRRDSKEANARRQAGTRRRESLGKKAKRFLGRIVARNSRKMAFRAKSK  
SCHDLSVL

>sp|P15918|RAG1\_HUMAN V(D)J recombination-activating protein 1 OS=Homo sapiens GN=RAG1  
PE=1 SV=2

MAASFPPTLGLSSAPDEIQHPHIKFSEWKFKLFRVRSFEKTPEEAQKEKKDSFEGKPSLE  
QSPAVLDKADGQKPVTQPLLKAHPKFSKKFHDNEKARGKAIHQANLRHLCRICGNSFRA  
DEHNRRYPVHGPVDGKTLGLLRKKEKRATSWPDLIAKVFRIDVKADVDSIHPTFCHNCW  
SIMHRKFSSAPCEVYFPRNVTMEWHPTPSCDICNTARRGLKRKSLQPNLQLSKKLKTVL  
DQARQARQHKRRAQARISSKDVMMKIANCSKIHLSTKLLAVDFPEHFVKSISQCICEHIL  
ADPVETNCKHVFCRVCILRCLKVMGSYCPSCRYPCFPTDLESPVKSFLSVLNSLMVKCPA  
KECNEEVSLKYNHHISSHKESKEIFVHINKGGRPRQHLLSLTRRAQKHRLRELKLQVKA  
FADKEEGGDVKSVCMTLFLALLARNEHRQADELEAIMQKGSGQLPAVCLAIRVNTFLS  
CSQYHKMYRTVKAITGRQIFQPLHALRNAEKVLLPGYHHFEWQPPLKNVSSSTDVGIIDG  
LSGLSSSVDDYPVDTIKFRFYDSALVSALMDMEEDILEGMRSQDLDDYLNPFVTVVKE  
SCDGMGDVSEKHGSGPVPEKAVRFSFTIMKITIAHSSQNVKVFEEAKPNSLCKPLCL  
MLADESDHETLTAILSPLIAEREAMKSELMLLEGGILRTFKFIFRGTGYDEKLVREVEG  
LEASGSVYICTLCDATREASQNLVFHSITRSHAENLERYEVWRSNPYHESVEELRDRVK  
GVSAPFPIETVPSIDALHCDIGNAAEFYKIFQLEIGEVYKNPNASKEERKRWQATLDKHL  
RKKMNLKPIRMNGNFARKLMTKETVDAVCELIPSEERHEALRELMDLYLKMKPVWRSSC  
PAKECPESLCQYSFNSQRFAELLSTKFKYRYEGKITNYFHKTLAHVPEI IERDGSIGAWA  
SEGNESGNKLFRFRKMNAQSKCYEMEDVLKHHWLYTSKYLQKFMNAHNALKTSGFTMN  
PQASLGDPGLGIEDSLESQDSMEF

>sp|P46060|RAGP1\_HUMAN Ran GTPase-activating protein 1 OS=Homo sapiens GN=RANGAP1 PE=1  
SV=1

MASEDIAKLAETLAKTQVAGGQLSFGKSKLKLNTAEDAKDVIKEIEDFDSLEALRLEGNT  
VGVEAARVIAKALEKKSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQVELDLS  
DNAFGPDGVQGFEALLKSSACFTLQELKLNNCGMGIGGGKILAAALTECHRKSSAQGKPL  
ALKVVFAGRNRLENDGATALAEAFRVI GTLEEVHMPQNGINHPGITALAQAFVNPPLRV  
INLNDNTFTEKGAVAMAETLKTLRQVEVINFGDCLVRSGAVAIADAIRGGLPKLKELNL  
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVLGFGNMAKVLASLSDD  
EDEEEEEEGEEEEEAEEEEEEDEEEEEEEEEEEEEEPQQRGQGEKSATPSRKILDPNTG  
EPAPVLSSPPPADVSTFLAFPSPEKLLRLGPKSSVLI AQQTDTSDPEKVVSAFLKVSSVF  
KDEATVRMAVQDAVDALMQAFNSSSFNSNTFLTRLLVHMGLLKSEDKVKAIANLYGPLM  
ALNHMVQQDYFPKALAPLLLAFTKPNSALESCSFARHSLLQTLYKV

>sp|Q96S59|RANB9\_HUMAN Ran-binding protein 9 OS=Homo sapiens GN=RANBP9 PE=1 SV=1

MSGQPPPPPPQQQQQQQLSPPPAALAPVSGVVLPAPPAVSAGSSPAGSPGGAGGEGL  
GAAAAALLLHPPPPPPATAAPPPPPPPPPASAAAPASGPPAPPGLAAGPGPAGGAPT  
PALVAGSSAAAPFPHGDSALNEQEKLQRRLKRLYPVDEQETPLPRSWSPKDKFSYIGL  
SQNNLRVHYKGHGKTPKDAASVRATHPIAACGIYYFEVKIVSKGRDGYMGIGLSAQGVN  
MNRLPGWDKHSYGYHGDDGHSFCSSGTGQPYGPTFTTGDVIGCCVNINNTCFYTKNGHS  
LGIAFTDLPPNLYPTVGLQTPGEVVDANFGQHPFVFDIEDYMWREWRKIQAQIDRFPIGD  
REGEWQMTIQMVSSYLVHHGYCATAEAFARSTDQTVLEELASIKNRQRIQKLVLAGRMG  
EAIETTQQLYPSLLERNPNLLFTLKVRQFIEMVNGTDSEVRCLGGRSPKSDSYPVSPRP

FSSPSMSPSHGMNIHNLASGKGSTAHFSGFESCSNGVISNKAHQSYCHSNKHQSSNLNVP  
ELNSINMSRSQQVNNFTSNDVDMETDHSNGVGETSSNGFLNGSSKHDHEMEDCDTEMEV  
DSSQLRRQLCGGSQAATERMIHFQRELQAMSEQLRRDCGKNTANKKMLKDAFSLAYS  
WNSPVGNQLDPIQREPVCALNSAILETHNLPKQPPLALAMGQATQCLGLMARSIGISCA  
FATVEDYLH

>sp|Q99969|RARR2\_HUMAN Retinoic acid receptor responder protein 2 OS=Homo sapiens  
GN=RARRS2 PE=1 SV=1

MRRLIPLALWLGA VGVGAELTEAQRRLQVALEEFHKHPPVQWAFQETSVESAVDTPF  
PAGIFVRLFLKQQTSCRKRDWKKPECKVRPNGRKRKCLACIKLGSSEKVLGRLVHCPIE  
TQVLR AEAEHQETQCLRVQRAGEDPHSFYFPGQFAFSKALPRS

>sp|Q8WWO0|RAS5\_HUMAN Ras association domain-containing protein 5 OS=Homo sapiens  
GN=RASS5 PE=1 SV=1

MAMASPAIGRPYPLLLDPEPPRYLQSLSGPELPPPPDRSSRLCVPAPLSTAPGAREGR  
SARRAARGNLEPPPRASRPARLPRLPGLQQRLRRRGAPRPDVRSEFEQPDPRVPAERG  
EGHCF AELVLPGGPGWCDLCGREVLRLALRCTNCKFTCHPECRSLIQLDCSQEGLSRDR  
PSPESTLTVTF SQNVCKPVEETQRPTLQEI KQKIDSYNTREKNCLGMKLSSEGTGTGFI  
KVHLKLRRPVTV PAGIRPQSIYDAI KEVNLAATTDKRTSFYLPDAIKQLHISSTTVSE  
VIQGLLKKFMVVDNPQKFALFKRIHKDGQVLFQKLSIADRPLYRLLAGPDTEVLSFVLK  
ENETGEVEWDAFSIPELQNF LTILEKEEQDKIQVQKKYDKFRQKLEALRESQKPG

>sp|Q8NHQ8|RAS8\_HUMAN Ras association domain-containing protein 8 OS=Homo sapiens  
GN=RASS8 PE=1 SV=2

MELKVWVDGVRIVCGVTEVTTCQEVVIALAQAI GRTGRYTLIEKWRDTERHLAPHENPI  
ISLNK WGQYASDVQLILRRTGPSLSERPTSDSVARIPERTLYRQSLPPLAKLRPQIDKSI  
KRREP KRKSLTFTGGAKGLMDIFGKGKETEFKQKVLNNCKTTADELKKLIRLQTEKLQSI  
EKQLESNEIEIRFWEQKYNLNLEEEIVRLEQKIKRNDVEIEEEEFWENELQIEQENKQL  
KDQLQEIRQKITECENKLKDYLAIQT MESGLEAEKLQREVQEAQVNEEEVKGKIGKVKG  
EIDIQQGQSLRL ENGIKAVERSLGQATKRLQDKEQELEQLTKELRQVNLQQFIQQTGTVK  
TVLPAEPIEIEASHADIEREAPFQSGSLKRP GSSRQLPSNLRILQNPISSGFNPEGIYV

>sp|O75901|RAS9\_HUMAN Ras association domain-containing protein 9 OS=Homo sapiens  
GN=RASS9 PE=2 SV=2

MAPFGRNLLKTRHKNSPTKDM DSEEKEIVVWCQEEKLVCGLTKRTTSADVIALLEE  
EATFG EKRFLLGKPSDYCIIEKWRGSE RVLPLTRILKLWKA WGDEQPNMQFVLVKADAF  
LPVPLWR TAEAKLVQNT EKLWELSPAN YMKTLPPDKQKRIVRKTFRKLAKIKQDTVSHDR  
DNMETLVHLIISQDHTIHQQVKRMKELDLEIEKCEAKFHLDREVNDGENYVQDAYLMPSF  
SEVEQNLDLQYEENQTLEDLSESDGIEQLEERLKYYRILIDKLSAEIEKEVKSVCIDINE  
DAEGEAA SELESSNLESVKCDLEKSMKAGLKI HSHLSGIQKEIKYSDSLLQMKAEYELL  
AKEFNSLHISNKG CQLKENRAKESEVPSSNGEIPPFTQ RVFSNYTNDTSDTGISSNHS  
QDSETTVGDVLLST

>sp|Q9UNT1|RBL2B\_HUMAN Rab-like protein 2B OS=Homo sapiens GN=RABL2B PE=2 SV=1

MAEDKTKPSEL DQGKYDADDNVKIIICLGDSAVGKSKLMERFLMDGFQPPQLSTYALTLYK  
HTATVDGR TILVDFWDTAGQERFQSMHASYYHKAHACIMVFDVQRKV TYRNLSTWYTELR  
EFRPEIPCIVVANKIDDINVTQKSFNFAKKFSLPLYFVSAADGTNVVKLFNDAIRLAVSY  
KQNSQDFMDEIFQELENFSLEQEEEDVPDQEQSSSIETPSEEASPHS

>sp|Q6ZP01|RBM44\_HUMAN RNA-binding protein 44 OS=Homo sapiens GN=RBM44 PE=2 SV=2

MQATAVVETASGKGYSNGGNLQKDKPSNPKEENLLSSNGCDEVKLTFFDDWNSSTLE  
QRANNKEISNIDKMDLLEPFFSVSQDTNTESTQFQSSELEDSTDYAFLNKTYSIPYSESK  
LKKESLTPLSSELDPEVQKKEEVFFNILEHQDKTVGLERIYNISDANYRESAEDTQKHDT  
DEDSQQEYHSAEEQEYISNHL SFDQTKALDISNPEVVELGNSGYEVKCSNVEDNRVNSG  
SGSII SFDSLDVYQQEESLHVSFKQNSVMLREYHDLKHEKYKEQETNSMYHTVFDGSVLR  
SNSPGNQESQSKSGSLSPQKVLKMKIYTENMKSQINEGKDFCGNKIVENKILLHLENPST  
LPQDKALETL LQPCDKCQTSWTSVFDDSIISACGYYESLQNTADSALDFSAMPLKIAVRD  
NQAIEDNTSLKVAHSSTTKTCFHNIGEMCTKSLTDAASCTVTINQTVDVSTDFRACFTT  
SRATSARPSVVSTSSNTEITMMNKKRPDEWQNEKQKSVACSTDWSYSEDCIDTQMAITKG  
SGKSLSVDSLKPNGNFLNKDFLELRKACGITDLKKHPEREFQLFKDTEKDLPSMCCQKIM  
QRAIKAEHLHLLNVHYQMCRHCCDIYKLV MENREGLNMNLSSNSAKKELGSALLSLLGDL  
KVRYVTLKEKIHKGIPLEELPPLSLESKLLSTFSTFASRLMKKETHVFSEADAEQDNQRA  
HDVDVSSNLKKTLSQMSLSSDNSHATQNISPKKDDFKNGDINADFSQLKLGDKDCRHYQE  
TSEDWDAKESLTGVDVSGTQGNQVEQDTWNLDLTGEMKNVEPSQRDKGYLIHVGGLCPS  
VSEADLRSHFQKYQVSEISIIDSTNYRYASLAFTKNSDAKIAVKEMNGIEINGKSVNWP  
VKILGEYTSPLSSKNGNRISSNLEKSTNKQIHSEFSISRLPRTPRQLGSEQDSEVFPS  
DQGVKKCKQIESAKLLPDPVQFIPNTNLNRSFTKIIKRLAELHPEVSRDHIINALQE  
VRIRHKGFLNGLSITTIVEMTSSLLKNSASS

>sp|AOAV96|RBM47\_HUMAN RNA-binding protein 47 OS=Homo sapiens GN=RBM47 PE=1 SV=2

MTAEDSTAAMSSDSAAGSSAKVPEGVAGAPNEAALLALMERTGYSMVQENGQRKYGGPPP  
GWEGPHQQRGCEVFVGKIPRDVYEDELVPVFEAVGRIYELRLMDFDGKNRGYAFVMYCH  
KHEAKRAVRELNNYEIRPGRLLGVCCSVNCRFLFIGGIPKMKKREEILEEIAKVTEGVLD  
VIVYASAADKMKNRGFAFVEYESHRAAAMARRKLMPGRIQLWGHQIAVDWAEPEIDVDED  
VMETVKILYVRNLMIETTEDTIKKSFGQFNPGCVERVKKIRDYAFVHFTSREDAVHAMNN  
LNGTELEGSCLEVT LAKPVDKEQYSRYQKAARGGAAEAAQQPSYVYSCDPYTLAYYGYP  
YNALIGPNRDYFVKAGSIRGRGRGAAGNRAPGPRGSYLGGYSAGRGYISRYHEGKGKQQE  
KGYELVPNLEIPTVNPVAIKPGTVAIPAIGAQYSMFPAAPAPKMIEDGKIHTVEHMISPI  
AVQPD PASAAAAAAAAAAAAA AVPTVSTPPPFQGRPITPVYTVAPNVQRIPTAGIYGAS  
YVPFAAPATATIATLQKNAAAAAAMGGYAGYIPQAFPAAAIQVPIPDVYQTY

>sp|Q9BQ04|RBM4B\_HUMAN RNA-binding protein 4B OS=Homo sapiens GN=RBM4B PE=1 SV=1

MVKLFIIGNLPREATEQEIRSLFEQYQKVLECDIIKNYGFVHIEDKTAEDAIRNLHHYKL  
HGVNINVEASKNSKASTKLHVGNISPTCTNQELRAKFEEYGPVIECDIVKDYAFVHMER  
AEDAVEAIRGLDNTEFQGKRMHVQLSTSRLRTAPGMGDQSGCYRCGKEGHSKECPVDRT  
GRVADFTEQYNEQYGAVRTPYTMGYGESMYNDAYGALDYYKRYRVRSEAVAAAAASA  
YNYAEQTMSHL PQVQSTTVTSHLNSTSVDPYDRHLLPNSGAAATSAAMAAAATTSSYYG  
RDRSPLRRAAAMLPTVGEGYGYPESELSQASAATRNSLYDMARYEREQYVDRARYSAF

>sp|Q8TC12|RDH11\_HUMAN Retinol dehydrogenase 11 OS=Homo sapiens GN=RDH11 PE=1 SV=2

MVELMFPLLLLLLPFLLYMAAPQIRKMLSSGVCTSTVQLPGKVVVVTGANTGIGKETAKE  
LAQRGARVYLACRDVEKGELVAKEIQTTTGNQQVLVRKLDLSDTKSIRAFKGF LAEEKH  
LHVLINNAGVMMCPYSKTADGFEMHIGVNH LGHFL LTHLLEKLKESAPSRIVNVSSLAH  
HLGRIHFHNLQGEKFYNAGLAYCHSKLANILFTQELARRLKGSGVT TYSVHPGTVQSELV  
RHSSFMRWMMWLF SFFIKTPQQGAQTS LHCA LTEGLEILSGNHFS DCHVAWVSAQARNET  
IARRLWDVSCDLLGLPID

>sp|Q8NBN7|RDH13\_HUMAN Retinol dehydrogenase 13 OS=Homo sapiens GN=RDH13 PE=1 SV=2

MSRYLLPLSALGTVAGAAVLLKDYVTGGACPSKATIPGKTVIVTGANTGIGKQTALELAR  
RGGNIIACRDMEKCEAAAKDIRGETLNHHVNARHLDLASLKSIREFAAKIIIEEERVDI  
LINNAGVMRCPHWTTEDEGFEMQFGVNHGFLLTNLLDKLKASAPSRIINLSSLAHVAG  
HIDFDDLNWQTRKYNTKAAYCQSKLAIVLFTKELSRRLQSGSVTVNALHPGVARTELGRH  
TGIHGSTFSSTTLGPIFWLLVKSPELAAQPSTYLAVAEELADVSGKYFDGLKQKAPAPEA  
EDEEVARRLWAESARLVGLEAPSVREQPLPR

>sp|Q8N3Y7|RDHE2\_HUMAN Epidermal retinol dehydrogenase 2 OS=Homo sapiens GN=SDR16C5 PE=2 SV=2

MSFNLQSSKKLFIFLGKSLFSLLEAMIFALLPKPRKNVAGEIVLITGAGSGLGRLLALQF  
ARLGSVLVLWDINKEGNEETCKMAREAGATRVHAYTCDCSQKEGVYRVADQVKKEVGDV  
ILINNAGIVTGKKFLDCPDELMEKSFDVNFKAHLWTYKAFLPAMIANDHGHLVCISSAG  
LSGVNGLADYCKAFAAFGFAESVFVETVQKQKGIKTTIVCPFFIKTGMFEGCTTGCP  
LLPILEPKYAVEKIVEAILQEKMVLYMPKLLYFMMFLKSFLPLKTGLLIADYLGILHAM  
GFVDQKKKL

>sp|Q9NRI6|PYY2\_HUMAN Putative peptide YY-2 OS=Homo sapiens GN=PYY2 PE=5 SV=1  
MATVLLALLVYLGALVDAYPIKPEAPGEDAFLG

>sp|P10082|PYY\_HUMAN Peptide YY OS=Homo sapiens GN=PYY PE=1 SV=3  
MVFVRRPWPALTTVLLALLVCLGALVDAYPIKPEAPREDASPEELNRYASLRHYLNLT  
RQRYGKRDPDTLLSKTFFPDGEDRPVRSRSEGPLW

>sp|Q9UDW1|QCR9\_HUMAN Cytochrome b-c1 complex subunit 9 OS=Homo sapiens GN=UQCR10 PE=1 SV=3

MAAATLSKLYSLLFRRTSTFALTIIIVGMFFERAFDQGADAIYDHINEGKLWKHIKHKY  
ENK

>sp|Q96PU8|QKI\_HUMAN Protein quaking OS=Homo sapiens GN=QKI PE=1 SV=1

MVGEMETKEKPKPTDYLMQLMNDKLMSSLPNFCGIFNHLERLLDEEISRVRKDMYNDT  
LNGSTEKRSALPDVAGPIVQLQEKLVPVKEYPDFNFVGRILGPRGLTAKQLEAETGCK  
IMVRGKGSMDKKKEEQNRGKPNWEHLNEDLHVLITVEDAQNRAEIKLKRAVEEVKKLLV  
PAAEGEDSLKKMQLMELAILNGTYRDANIKSPALAFSLAATAQAAPRIITGPAPVLPAA  
LRTPTAGPTIMPLIRIQITAVMPNGTPHTAAIVPPGPEAGLIYTPYEYPYTLAPATSI  
LEYPIEPSGVLGAVATKVRHDMRVHPYQRIVTADRAATGN

>sp|Q53FA7|QORX\_HUMAN Quinone oxidoreductase PIG3 OS=Homo sapiens GN=TP53I3 PE=1 SV=2

MLAVHFDKPGPENLYVKEVAKPSPEGEVLLKVAASALNRADLMQRQGQYDPPPGASNI  
LGLEASGHVAELGPGCQGHWKIGDTAMALLPGGGQAQYVTVPEGLLMPIPEGLTLTQAAA  
IPEAWLTAFQLLHLVGNVQAGDYVLIHAGLSGVGTAAIQLTRMAGAIPLVTAGSQKKLQM  
AEKLGAAAGFNYKKEDFSEATLKFTKGAGVNLILDCIGGSYWEKNVNCLALDGRWVLYGL  
MGGGDINGPLFSKLLFKRSLITSLLRSRDNKYQMLVNAFTEQILPHFSTEGPQRLPV  
LDRIYPVTEIQEAHKYMEANKNIGKIVLELPQ

>sp|Q7Z5L2|R3HCL\_HUMAN Coiled-coil domain-containing protein R3HCC1L OS=Homo sapiens GN=R3HCC1L PE=1 SV=2

MQQESERCVRARRPDMAVYPKARRGAVLLKTGDEEESCGSPNSVVKEKQKESLSQKE  
VFKDKPEARRLNINPDRKEHNCREEKKSSTKLMDTCLQKTRVCSKRGTTESKEVLSQG  
QQQGAPNAGVITNAPLQRHFKPKKVECLEVETDVTGHERILLSQACLEISEAQVPSKPF  
QNVEFCDFSRHEPDGEAFEDKDLEGRIETDTKVLEILYEFPRVFSSVMKPENMIVPIKLS  
SDSEIVQQSMQTSBGILNPSSGGITTTSPVPGSPDGVFDQTCVDFEVESVGGIANSTGFIL

DQKDTDSIPATMGHISLSESTNDTVSPVMIRECEKNDSTADELHVKEPPDTAVLAHETH  
RDSGFKNVGDI TNKACMMDDTGMSCSDHVTVDSPYVAVRIADETSINTRSFSKFGMSA  
DATPLHVARSGNDDTDFSNPSACSDIYGESISSHFTTESTGKLIESLSDCASSLPKIKIAG  
SNYNTFLDSELSMLNGTKVLSDSAVGIDLGSTGDTTEALHELRTAEFEKTEEQDDSGSIE  
FGVSFPDRESSMETSI EPKATETSHTEGITAIEESWESMFNDGDCLDPRLQEGILMH  
IKPENHCSELSGNTKSRESIQEPRSDYYNHEVPDIDLSDCEFPVHIEIYDFPQEFHTEDL  
LRVFCSYQKKGFIDIKWDDTHALGVFSSPITARDALGIKHTMVKIRPLSQATRAAKAKAR  
AYAFLQPAKERPETSAAALARRLVISALGVRSKQSKTEREAELKKLQEARERKRLEAKQR  
EDIWEGRDQSTV

>sp|Q9Y2K5|R3HD2\_HUMAN R3H domain-containing protein 2 OS=Homo sapiens GN=R3HDM2 PE=1  
SV=3

MSNSNTTQETLEIMKESEKKLVEESVNKNKFISKTPSKEEIEKECEDTSLRQETQRRTSN  
HGHARKRAKSNSKLLVRS LAVCEESSTPFADGPLETQDI IQLHISCPSDKEEEKSTKDV  
SEKEDKDKNKEKIPRKM LSRDSSQEYTDSTGIDLHEFLVNTLKKNPRDRMMLLKLEQEIL  
EFINDNNNQFKFPQMTSYHRMLLHRVAAYFGMDHNVDQTGKAVIINKTSNTRIPEQRFS  
EHIKDEKNTEFQQRFILKRDDASMDRDNQTGQNGYLNDIRLSKEAFSSSSHKRRQIFRG  
NREGLSRTSSSRQSSDSELKSLEPRPWSSTDSG SVSRMRPPVTKASSFSGISILTRGD  
SIGSSKGSAGRISRPGMALGAPEVCNQVTSSQSVRGLLPCTAQQQQQQQQQLPALPPT  
PQQQPPLNNHMISQADDLSNPFQMSLSRQGSTEAADPSAALFQTPLISQHPQQTSFIMA  
STGQPLPTSNYSTSSHAPPTQQVLPPQGYMQPPQIQVSYPPGQYPNSNQYRPLSHPV  
AYSPQRGQQLPQSQQPGLQPMMPNQQAAYQGMIGVQQPQNQGLLSSQRSSMGGQMQL  
VVQYTPLPSYQVPVGSDSQNVVQPPFQQPMLVPVSQSVQGG LPAAGVPVYYSMIPPAQQN  
GTSPSVGLFQPPGSEYQMPQSPSPCSPQMPQQYSGVSPSGPGVVVMQLNVPNGPQPPQ  
NPSMVQWSHCKYYSMDQRGQKPGDLYSPDSSPQANTQMSSSPVTSPTQSPAPSPVTSLS  
VCTGLSPLPVLTFPRPGGPAQGDGRYSLLGQPLQYNLSICPPLLHGQSTYTVHQGQSGL  
KHGNRGKRQALKSASTDLGTADV LGRVLEVTDLPEGITRTEADKLFTQLAMSGAKIQWL  
KDAQGLPGGGGDNSGTAENGRHSDLAALYTIVAVFPSPLAAQNASLRLNNSVSRFKLRM  
AKKNYDLRILERASSQ

>sp|O15315|RA51B\_HUMAN DNA repair protein RAD51 homolog 2 OS=Homo sapiens GN=RAD51B PE=1  
SV=2

MGSKKLKRVGLSQELCDRLSRHQILTCQDFLCLSPLELMKVTGLSYRGVHELLCMVSRAC  
APKMQTAYGIKAQRSADFSPAFLSTTLSALDEALHGGVACGSLTEITGPPGCGKTQFCIM  
MSILATLPTNMGGLEGAVVYIDTESAFSAERLVEIAESRFPFYFNTEEKLLLTSSKVHLY  
RELTCDEV LQRIESLEEEIISKGIKLVILDSVASVVRKEFDAQLQGNLKERNKFLAREAS  
SLKYLAEEFSIPVILTNQITTHLSGALASQADLVSPADDLSLSEGTSGSSCVIAALGNTW  
SHSVNTRLILQYLDSERRQILIAKSPLAPFTSFVYTIKEEGLVLQETTFCSVTQAE LNWA  
PEILPPQPPEQLGLQMCHHTQLIF

>sp|075771|RA51D\_HUMAN DNA repair protein RAD51 homolog 4 OS=Homo sapiens GN=RAD51D PE=1  
SV=1

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQ  
FSAFPVNGADLYEELKTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCM  
AANVAHGLQQNVLYDSNGGLTASRLQLLQAKTQDEEEQAEALRRIQVVHAFDIFQMLD  
VLQELRGTVAAQQTGSSGTVKVVVVD SVTAVVSPLLGGQQREGLALMMQLARELKT LARD  
LGMVVVTNHI TRDRDSGRLKPALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSR



QPTGFQEMVDIGTWGTSEQSATLQGDQT

>sp|P61106|RAB14\_HUMAN Ras-related protein Rab-14 OS=Homo sapiens GN=RAB14 PE=1 SV=4  
MATAPYNYSYIFKYIIIGDMGVGKSCLLHQFTEKKFMADCPHTIGVEFGTRIIEVSGGKI  
KLQIWDTAGQERFRAVTRSYRGAAGALMVYDITRRSTYNHLSSWLTARNLTNPNTVII  
LIGNKADLEAQRDVTYEEAKQFAEENGLLFLEASAKTGENVEDAFLEAAKKIYQNIQDGS  
LDLNAAESGVQHKPSAPQGGRLTSEPQPQREGCGC

>sp|Q9ULC3|RAB23\_HUMAN Ras-related protein Rab-23 OS=Homo sapiens GN=RAB23 PE=1 SV=1  
MLEEDMEVAIKMVVVGNGAVGKSSMIQRYCKGIFTKDYKKTIGVDFLERQIQVNDEDVRL  
MLWDTAGQEEFDAITKAYYRGAQACVLVFSTTDRESFEAVSSWREKVVAEVGDIPTVLVQ  
NKIDLLDDSCIKNEEAALAKRLKRFYRTSVKEDLVNNEVFKYLAEKYLQKLKQIAED  
PELTHSSSNKIGVFNTSGGSHSGQNSGTLNGGDVINLRPNKQRTKKNRNPFSSCSIP

>sp|Q9BZG1|RAB34\_HUMAN Ras-related protein Rab-34 OS=Homo sapiens GN=RAB34 PE=1 SV=1  
MNILAPVRRDRVLAELPQCLRKEAALHGKDFHPRVTCACQEHRTGTGFGKISKVIVVD  
LSVGKTCLINRFCKDTDFKNYKATIGVDFEMERFEVLGIPFSLQLWDTAGQERFKCIAST  
YYRGAQAIIVFNLDVASLEHTKQWLADALKENDPSSVLLFLVGSKDLSTPAQYALME  
KDALQVAQEMKAEYAVSSLTGENVREFFRVAALTFEANVLAELEKSGARRIGDVVRIN  
SDDSNLYLTASKKKPTCCP

>sp|Q96E17|RAB3C\_HUMAN Ras-related protein Rab-3C OS=Homo sapiens GN=RAB3C PE=2 SV=1  
MRHEAPMQMASAQDARYGQKSSDQNFDMFKLLIIGNSSVGKTSFLFRYADDSFTSAFV  
STVGIDFKVKTIVFKNEKRIKLQIWDTAGQERYRTITTAYYRGAMGFILMYDITNEESFNA  
VQDWSTQIKTYSWDNAQVILVGNKCDMEDERVISTERGQHLGEQLGFEFFETSADNINV  
KQTFERLVDIICDKMSESLTDPAITAAKQNTLRKETPPPPQPNAC

>sp|O95716|RAB3D\_HUMAN Ras-related protein Rab-3D OS=Homo sapiens GN=RAB3D PE=1 SV=1  
MASAGDTQAGPRDAADQNFDMFKLLIIGNSSVGKTSFLFRYADDSFTPAFVSTVGIDFK  
VKTIVYRHDKRIKLQIWDTAGQERYRTITTAYYRGAMGFLLMYDIANQESFAAVQDWATQI  
KTYSWDNAQVILVGNKCDLEDERVPAEDGRRLADDLGFEFFEASAKENINVQVFERLV  
DVCEKMNESLEPSSSSGNGKPAVGDA PAPQSSCSC

>sp|Q96AH8|RAB7B\_HUMAN Ras-related protein Rab-7b OS=Homo sapiens GN=RAB7B PE=2 SV=1  
MNP RKKVDLKLIIVGAIGVGKTSLLHQYVHKTFYEEYQTTLGASILSKIIILGDTTLKLQ  
IWD TGQERFRSMVSTFYKSGDGCILAFDVTDLSEFALDIWRGDVLAKIVPMEQSYPMV  
LLGNKIDLADRKVPQEAQGWCREKDIPYFEVSAKNDINVQAFEMLASRALSRYQSILE  
NHLTESIKLSPDQSRSRCC

>sp|O60671|RAD1\_HUMAN Cell cycle checkpoint protein RAD1 OS=Homo sapiens GN=RAD1 PE=1  
SV=1

MPLLTQQIQDEDDQYSLVASLDNVRNLSTILKAIHFREHATCFATKNGIKVTVENAKCVQ  
ANAFIQAGIFQEFKVQEE SVTFRINLTVLLDCLSIFGSSPMPGTLTALRM CYQGYPLM  
LFLEEGGVTVCKINTQEPEETLDFDFCSTNVINKIILQSEGLREAFSELDMTSEVLQIT  
MSPDKPYFRLSTFGNAGSSHLDPKSDLMFAFHCNQTQVNRKISLLKPSTKALVLSCK  
VSIRTDNRGFLSLQYMIRNEDGQICFVEYYCCPDEEVPESES

>sp|P57052|RBM11\_HUMAN Splicing regulator RBM11 OS=Homo sapiens GN=RBM11 PE=1 SV=1  
MFPAQEEADRTVFVGNLEARVREEILYELFLQAGPLTKVTICKDREGKPKSFGFVCFKHP  
ESVSYAIALN GIRLYGRP INVQYRF GSSRSSEPANQSFESC VKINSHNYRNEEMLVGRS  
SFPMQYF PINNTSLPQEYFLQKMQWHVYNPVLQLPYEMTAPLPNSASVSSSLNHVPDL  
EAGPSSYK WTHQQPSDSLQMTAPLPNSASVSSSLNHVPDLEAGPSSYK WTHQQPSDSD

LYQMNKRKRQKQTSDDSDSDNNRGNECSQKFRKSKKKKRY

>sp|Q5T8P6|RBM26\_HUMAN RNA-binding protein 26 OS=Homo sapiens GN=RBM26 PE=1 SV=3

MVSKMIIENFEALKSWLSKTLEPICDADPSALAKYVLALVKDKSEKELKALCIDQLDVF  
LQKETQIFVEKLFDAVNTKSYLPPPEQPSSGSLKVEFFPHQEKDIKKEEITKEEEREKKF  
SRRLNHSPQSSSRYPENRSRDERKKDDRSRKRDRNPPRRDSYRDRYNRRRGRSRSYS  
RSRSRSWSKERLRERDRDRSRTRSRSRTRSRERDLVKPKYDLDRTPLENNYTPVSSVPS  
ISSGHYPVPTLSTTITVIAPTHHGNTTESWSEFHEDQVDHNSYVRPMPKKRCRDYDEK  
GFCMRGDMCPFDHGSDPVVVEDVNLPGMLPFPAQPPVVEGPPPPGLPPPPPILTPPPVNL  
RPPVPPPGPLPPSLPPVTGPPPLPLLPQSGMDAPPNSATSSVPTVVTGIIHQPPAPPP  
SLFTADTYDTDGYNPEAPSIINTSRPMYRHRVHAQRPNLIGLTSQMDLPPREKPPNKSS  
MRIVVDSERKRTIGSGEPGVPTKKTWFDKPNFNRTNSPGFQKKVQFGNENTKLELRKVP  
PELNNISKLNHFSTRFGTLVNLQVAYNGDPEGALIQFATYEEAKKAISSTEAVLNNRFIK  
VYWHREGSTQQLQTTSPKVMQPLVQQPILPVVKQSVKERLGPVPSSTIEPAEAQSASSDL  
PQNVTKLSVKDRLGFVSKPSVSATEKVLSTSTGLTKTVYNPAALAAQKTLLVSTSAVDN  
NEAQKKKQEALKLQQDVRKRKQEI LEKHIETQKMLISKLEKNKTMKSEDKAEIMKTLEVL  
TKNITKLKDEVKAASPGRCCLKSIKTKTQMKELLDTELDLYKKMQAGEEVTELRRKYTE  
LQLEAAKRGILSSGRGRGIHSRGRGAVHGRGRGRGRGVPGHAVVDHRPRALEISAFTE  
SDREDLLPHFAQYGEIEDCQIDSSSLHAVITFKTRAEAEAAVHGARFKGQDLKLAWNKP  
VTNISAVETEVEPEDEEFQEESLVDDSLQDDDEEEDNESRSWRR

>sp|Q96EV2|RBM33\_HUMAN RNA-binding protein 33 OS=Homo sapiens GN=RBM33 PE=1 SV=3

MAAALGASGGAGAGDDDFDQFDKPGAERSWRRRAADEDWDSELEDDLGEDLLSGKKNQS  
DLSDEELNDDLQSDNEDEENFSSQGVITISLNATSGMVTSEFELSDNTNDQSGEQESEYEQ  
EQGEDELVYHKSDGSELYTQEYPEEGQYEGHEAELTEDQIEYVEEPEEEQLYTDEVLDIE  
INEPLDEFTGGMETLELQKDIKEESDEEEEDDEESGRLRFKTERKEGTIIRLSDVTRERR  
NIPETLELSAEAKAALLEFEERERQHKQGRYSSRRGGRRGGLMCRGVGDQRRESTERGR  
MKDHRPALLPTQPPVVPQAPPPPPPPQQPPIRSLFQPPQLPPLPVQHPHPSPPQGMH  
MPPQLETPRMMMTPPPVTQPKNIHINPHFKGTVVTPVQVPLLPVPSQPRPAVGPQRFP  
GPPEFPQHTPGVPNSFSQPPRLPLQDQWRAPPPQDRDPFFLGVSGEPRFPSHLFLEQR  
SPPPPPPPTLLNSSHPVPTQSPLPFTQPGPAFNQQGQPVFPRERPVRPALQPPGPVGI  
LHFSQPGSATTRPFIIPRQPFLPGPGQPFLPHTQPNLQGPLHPPLPPPHQPQPQQPQQQ  
PPPQHQPHPHQPHPHQPHPHQPHPHQPHPHQPHPHQPHPHQPHPHQPHPHQPHPHQP  
VQTAQPQASSSRMQCPQRQGLRHNTTSQNVSKRPMQMQPTAPRNSNLRELPIAPSHVIE  
MSSSRCSATPSAQVKPIVSASPPSRAVAGSRSSQGKTEVKVKPASVAPKKEAKTETEF  
PDEDEETRLYRLKIEEQKRLREEILKQKELRRQQQAGARKKELLERLAQQQQQLYAPPPP  
AEQEEQALSPSPTNGNPLLPFGAQVRQNVKNRLLVKNQDVSISNVQPKTSNFPVSSANM  
QYQGQMQMKALKHLRQTRTPVQSQTQLHKVLPKIPADVEEPAVPQTTPRVASIQGRPQDTK  
PGVKRTVTHRTNSGGGDGPHISSKVRVIKLSGGGGESDGFHPEGQPRLPQPPEVGPQP  
ARKVTLTRGGLQPPHLPAGPHAHSPVPPGKISIQGIHPAKKAIMHGRGRGVAGPMGRGR  
LMPNKQNLRVVECKPQPCVVSVEGLSSSTTDAQLKSLLMSVGPIQSLQMLPQQRKAIKAF  
KEPAHALAFQQKFHRHMIDLSHINVALIVE

>sp|Q9H0Z9|RBM38\_HUMAN RNA-binding protein 38 OS=Homo sapiens GN=RBM38 PE=1 SV=2

MLLQPAPCAPSAGFPRPLAAPGAMHGSQKDTTFTKIFVGGLPYHTTDASLRKYFEGFGDI  
EEAVVITDRQTGKSRGYGFVTMADRAAAERACKDPNPIIDGRKANVNLAYLGAKPRSLQT  
GFAIGVQQLHPTLIQRITYGLTPHYIYPPAIVQPSVVIAPVPSLSSPYIEYTPASPAYA

QYPPATYDQYPYAASPATAASFGYSYPAAVPQALSAAAPAGTTFVQYQAPQLQPDRMQ

>sp|Q14498|RBM39\_HUMAN RNA-binding protein 39 OS=Homo sapiens GN=RBM39 PE=1 SV=2

MADDIDIEAMLEAPYKDKENKLSSANGHEERSKKRKKSKSRSSHERKRSKSKERKRSR  
RERKKSKSRERKRSRSEKRRRSRSRSDRRFRGRYRSPYSGPKFNSAIRGKIGLPHSIKL  
SRRRSRSKSPFRKDKSPVREPIDNLTPEERDARTVFCMQLAARIRPRDLEEFFSTVGKVR  
DVRMISDRNSRRSKGIAYVEFVDVSSVPLAIGLTGQRVLGVPIIVQASQAEKNRAAAMAN  
NLQKGSAGPMRLYVGS LHFNITEDMLRGIFEPFGRIESIQLMMDSETGRSKGYGFITFSD  
SECAKKALEQLNGFELAGRPMKVGHVTERTDASSASSFLDSELEERTGIDLGTTGRLQLM  
ARLAEGTGLQIPPAQQALQMSGSLAFGAVAEFSFVIDLQTRLSQQTEASALAAAASVQP  
LATQCFQLSNMFNPQTEEEVGWDTEIKDDVIEECNKHGGVIHIYVDKNSAQGNVYVKCPS  
IAAAIAAVNALHGRWFAGKMITAAVPLPTYHNLFPDSMTATQLLVPSRR

>sp|P25800|RBTN1\_HUMAN Rhombotin-1 OS=Homo sapiens GN=LMO1 PE=1 SV=1

MMVLDKEDGVPMLSVQPKGKQKGCAGCNRKIKDRYLLKALDKYWHEDCLKCACDCRLGE  
VGSTLYTKANLILCRRDYLRLFGTTGNCAACSKLIPAFEMVMRARDNVYHLDCFACQLCN  
QRFCVGDKFFLKNMILCQMDYEEGQLNGTFESQVQ

>sp|POJDJ4|RBY1C\_HUMAN RNA-binding motif protein, Y chromosome, family 1 member C OS=Homo sapiens GN=RBMY1C PE=1 SV=1

MVEADHPGKLFIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFATITFENPAD  
AKNAAKDMNGKSLHGKAIKVEQAQKPSFQSGGRRRPPASSNRSPSGSLRSARGSRGGTR  
GWLPSHEGHLDDGGYTPDLKMSYSRGLIPVKRGPSSRSGGPPPKKSAPSAVARNSWMGS  
QGPMSQRRENYGVPPRRATISSWRNDRMSTRHDGYATNDGNHPSCQETRDYAPPSRGYAY  
RDNGHSNRDEHSSRGYRNHRSSRETRDYAPPSRGHAYRDYGHSSRDESYSGYRNRRSSR  
ETREYAPPSRGHGYRDYGHSSRHESYSGYRNHPSSRETRDYAPPHRDYAYRDYGHSSWD  
EHSSRGYSYHDGYGEALGRDHSEHLSGSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA  
YSNTRDRYGRSWESYSSCGDFHYCDREHVCRKDQRNPPSLGRVLPDPREACGSSSYVASI  
VDGGESRSEKGDSSRY

>sp|Q14206|RCAN2\_HUMAN Calcipressin-2 OS=Homo sapiens GN=RCAN2 PE=2 SV=3

MPAPSMDCDVSTLVACVVDVEVFTNQEVKEKFEGLFRTYDDCVTFQLFKSFRRVRINFSN  
PKSAARARIELHETQFRGKKLKYFAQVQTPETDGDKLHLAPPQPAKQFLISPPSSPPVG  
WQPINDATPVLNYDLLYAVAKLGPGEKYELHAGTESTPSVVVHVCDSDIEEEEDPKTSPK  
PKIIQTRRPGLPPSVSN

>sp|A6NED2|RCCD1\_HUMAN RCC1 domain-containing protein 1 OS=Homo sapiens GN=RCCD1 PE=1 SV=1

MAERPGAWFGFGFCGFGQELGSGRGRQVHSPSPLRAGVDICRVASWSYTAFTVTRGGRL  
ELSGSASGAAGRCKDAWASEGLLAVLRAGPGPEALLQVWAAESALRGEPLWAQNVVPEAE  
GEDDPAGEAQAGRLPLLPCARAYVSPRAPFYRPLAPELRARQLELGAEHALLLDAAGQVF  
SWGGRHGQLGHGTLEAELEPRLLALQGLVMAEVAAGGWHSVCVSETGDIYIIGWNESG  
QLALPTRNLAEDGETVAREATELNEDGSQVKRTGGAEDGAPAPFIAVQPPALLDLPMS  
DAVKASCGSRHTAVVTRTGELYTWGWGKYQLGHEDTTS�DRPRRVEYFVDKQLQVKAVT  
CGPWNTYVYAVEKGKS

>sp|075452|RDH16\_HUMAN Retinol dehydrogenase 16 OS=Homo sapiens GN=RDH16 PE=1 SV=2

MWLYLAVFVGLYLLHWYRERQVLSHLRDKYVFITGCDSGFGKLLARQLDARGLRVLAAC  
LTEKGAEQLRGQTSRLETVTLTDVTKTESVAAAQWVKECVRDKGLWGLVNNAGISLPTA  
PNELLTKQDFVTILDVNLLGVIDVTL SLLPLVRRARGRVNVSSVMGRVSLFGGGYCISK

YGVEAFSDSLRRELSYFGVKVAMIEPGYFKTAVTSKERFLKSFLEIWRSSPEVKEAYGE  
KFVADYKKSAEQMEQKCTQDLSLVTNCMEHALIACHPRTRYSGWDAKLLYLPMSYMPTF  
LVDAIMYWVSPSPAKAL

>sp|P46063|RECQ1\_HUMAN ATP-dependent DNA helicase Q1 OS=Homo sapiens GN=RECQL PE=1 SV=3  
MASVSALTEELDSITSELHAVEIQIQELTERQQELIQKKVLTKKIKQCLEDSDAGASNE  
YDSSPAAWNKEFPWSGKVKDILQNVFKLEKFRPLQLETINVTMAGKEVFLVMPTGGGKS  
LCYQLPALCSDGFTLVICPLISLMEDQLMVLKQLGISATMLNASSSKEHVKVVHAEMVNK  
NSELKLIYVTPEKIAKSKMFMSRLEKAYEARRFTRIAVDEVHCCSQWGHDFRPDYKALGI  
LKRQFPNASLIGLTATATNHVLTDAQKILCIEKCF TFTASFNRPNLYYEVQRKPSNTEDF  
IEDIVKLINGRYKGQSGI IYCF SQKDSEQVTVSLQNLGIHAGAYHANLEPEDKTTVHRKW  
SANEIQVVVATVAFGMGIDKPDVRFVIHHSMSKSMENYYQESGRAGRDDMKADCILYYGF  
GDIFRISSMVVMENVGQQLYEMVSYQNISKRRVLMQHFDEVWNSEACNMCDNCK  
DSAFERKNITEYCRDLIKILKQAEELNEKL TPLKLIDSWMGGA AKLRVAGVVAPTLPRE  
DLEKIIAHFLIQYLKEDYSFTAYATISYLGIPKANLLNNEAHAITMQVTKSTQNSFRA  
ESSQ TCHSEQGDKMEEKNSGNFQKKAANMLQQSGSKNTGAKKRKIDDA

>sp|Q5HYI8|RABL3\_HUMAN Rab-like protein 3 OS=Homo sapiens GN=RABL3 PE=1 SV=1  
MASLDRVKVLVLGDSGVGKSSLVHLLCQNVVLGNPSWTVGCSVDVRVHDYKEGTPEEKTY  
YIELWDVGGSVGSASSVKSTRAVFYNSVNGIIFVHDLTNKSSQNLRRWSLEALNRDLVP  
TGVLVTNGDYDQEQFADNQIPLLVI GTKLDQIHETKRHEVLTRTAFLAEDFNPEEINLDC  
TNPRYLAAGSSNAVKLSRFFDKVIEKRYFLREGNQIPGFPDRKRFGAGTLKSLHYD

>sp|P29373|RABP2\_HUMAN Cellular retinoic acid-binding protein 2 OS=Homo sapiens GN=CRABP2  
PE=1 SV=2  
MPNFSGNWKIIRSENFEELLKVLGVNMLRKIAVAAASKPAVEIKQEGDTFYIKTSTTVR  
TTEINFVKVGEEFEEQTV DGRPCKSLVKWESENKMVCEQKLLKGEGPKTSWTREL TNDGEL  
ILTMTADDVVCTRVYVRE

>sp|P60763|RAC3\_HUMAN Ras-related C3 botulinum toxin substrate 3 OS=Homo sapiens GN=RAC3  
PE=1 SV=1  
MQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAG  
QEDYDRLRPLSYPTDVFLICFSLVSPASFENVRAKWYPEVRHHCPHTPILLVGTKDLR  
DDKDTIERLRDKKLAPITYPQGLAMAREIGSVKYLECSALTQRGLKTVFDEAIRAVLCPP  
PVKKPGKKCTVF

>sp|O60216|RAD21\_HUMAN Double-strand-break repair protein rad21 homolog OS=Homo sapiens  
GN=RAD21 PE=1 SV=2  
MFYAHFVLSKRGPLAKIWLAAHWDKKLTKAHVFEKNLESSVESIISPKVKMALRTSGHLL  
LGVVRIYHRKAKYLLADCNEAFIKIKMAFRPGVVDLPEENREAAYNAILPEEFHDFDQP  
LPDLDDIDVAQQFSLNQSRVEEITMREEVGNISILQENDFGDFGMDDREIMREGSAFEDD  
DMLVSTTTSNLLLESEQSTSNLNEKINHLEYEDQYKDDNFGE GNDGGILDDKLISNNDGG  
IFDDPPALSEAGVMLPEQPAHDDMDEDDNVSMGGPDSPDSVDPVEPMPTMTDQTTLVPNE  
EEAFALEPIDITVKETKAKRKRKLIVDSVKELDSKTIRAQLSDYSDIVTTLDLAPPTKKL  
MMWKETGGVEKFLSLPAQPLWNNRLLKLFTRCLTPLVPEDLRKRRKGGEADNLDEFLEK  
ENPEVPREDQQQHQQRDVIDEPIIEEPSRLQESVMEASRTNIDESAMPPPPPGVKRKA  
GQIDPEPVMPPQVEQMEIPPVELPPEEPPNICQLIPELELLPEKEKEKEKEKEDDEEEE  
DEDASGGDQDQEERRWNKRTQQLHGLQRALAKTGAESISLLELCRNTNRKQAAAKFYSF  
LVLKKQQAIELTQEEPYSDI IATPGPRFHII

>sp|P35241|RADI\_HUMAN Radixin OS=Homo sapiens GN=RDY PE=1 SV=1

MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKTVGLREVWFFGLQYVDSKGYSTWLK  
LNKKVTQQDVKKENPLQFKFRAKFFPEDVSEELIQEITQRLFFLQVKEAILNDEIYCPPE  
TAVLLASYAVQAKYGDYNKEIHKPGYLANDRLLPQRVLEQHKLTKEQWEERIQNWHEEHR  
GMLREDSMMEYLKIAQDLEMYGVNYFEIKNKKGTTELWLGVDALGLNIYEHDDKLTPIKIGF  
PWSEIRNISFNDKKFVFKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKPDIT  
EVQMQKAQAREEKHQKQLERAQLENEKKKREIAEKEKERIEREKEELMERLKQIEEQTIK  
AQKELEEQTRKALELDQERKRAKEEAERLEKERRAAEEAKSAIAKQAADQMKNQEQLAAE  
LAEFTAKIALLEEAKKKKEEEATEWQHKAFAAQEDLEKTKEELKTVMSAPPPPPPPVIP  
PTENEHDEHDENNAEASAELESGVMNHRSEEEERVETQKNERVKKQLQALSSELAQARD  
ETKKTQNDVLHAENVKAGRDKYKTLRQIRQGNTKQRIDEFEAM

>sp|P78406|RAE1L\_HUMAN mRNA export factor OS=Homo sapiens GN=RAE1 PE=1 SV=1

MSLFGTTSFGTSGTSMFGSATDHNPMKDIEVTSSPDDSIGCLSFSPTPLPGNFLIAG  
SWANDVRCWEVQDSGGTIPKAQMQHTGPVLDVCWSDDGSKVFTASCDKTAKMWDLSSNQA  
IQIAQHDAVPKTIHWIKAPNYSVMTGSWDKTLKFWDTRSSNPMMLVQLPERCYCADVIY  
PMAVVATAERGLIVYQLENQSEFRRIESPLKHQHRCVAIFKDKQNKPTGFALGSIEGRV  
AIHYINPPNPAKDNFTFKCHRSNGTNTSAPQDIYAVNGIAFHPVHGTLATVGSDFGRFSFW  
DKDARTKLKTSEQLDQPIASACFNHNGNIFAYASSYDWSKGHEFYNPQKKNYIFLRNAAE  
ELKPRNKK

>sp|P24386|RAE1\_HUMAN Rab proteins geranylgeranyltransferase component A 1 OS=Homo sapiens GN=CHM PE=1 SV=3

MADTLPSFEFDVIVIGTGLPESIIAAACSRSGRRVLHVDSRSYYGGNWSFSFSGLLSWLK  
EYQENSDIVSDSPVWQDQILENEEAIASRKDKTIQHVEVFCYASQDLHEDVEEAGALQK  
NHALVTSANSTEADSAFLPTEDESLTMSCEMLTEQTPSSDPENALEVNGAEVTGEKEN  
HCDDKTCVPSTSAEDMSENVPIAEDTTEQPKKNRITYSQIIEGRRFNIDLVSLLYSRG  
LLIDLLIKSNVSRYAEFKNITRILAFREGRVEQVPCSRADVFNSKQLTMVEKRMLMKFLT  
FCMEYEKYPDEYKGYYEITFYEYLKTQKLTPNLQYIVMHSIAMTSETASSTIDGLKATKN  
FLHCLGRYGNTPLFLPLYGGELPQCFCRMCVFGGIYCLRHSVQCLVVDKESRKCKAII  
DQFGQRIISEHFLVEDSYFPENMCSRVRQYRQISRAVLITDRSVLKTDSQDQISILTPAE  
EPGTFAVRVIELCSSTMTCMKGYTLVHLTCTSSKTAREDESVVQKLFVPTYTEMEIENEQ  
VEKPRILWALYFNMRDSSDISRSCYNLPSNVYVCSGPDGGLGNDNAVKAETLQFQICP  
NEDFCPPPPNPEDIIIDGDSLQPEASESSAIPANSETFKESTNLGNLEESSE

>sp|P55895|RAG2\_HUMAN V(D)J recombination-activating protein 2 OS=Homo sapiens GN=RAG2 PE=1 SV=1

MSLQMVTVSNNIALIQPGFSLMNFQGVFFFGQKGWPKRSCPTGVFHLVDKHNHVKLKPT  
IFSKDSCYLPPLRYPATCTFKGSLESEKHQYIIHGKTPNNEVSDKIYVMSIVCKNNKKV  
TFRCTEKDLVGDVPEARYGHSINVVYSRGKSMGVLFGRSYMPSTHRTTEKWNADVCLP  
CVFLVDFFEFGCATSYILPELQDGLSFHVSIKNDTIYILGGHSLANNIRPANLYRIRVDL  
PLGSPAVNCTVLPGGISVSSAILTQTNNDEFVIVGGYQLENQKRMICNIIISLEDNKIEIR  
EMETPDWTPDIKHSKIWFSGNSMNGTVFLGIPGDNKQVSEGFYFYLKCAEDDTNEEQT  
TFTNSQTSTEDPGDSTPFEDSEEFCSAEANSFDDGDEFDTYNEDDEEDESSETGYWITCC  
PTCDVDINTWVPFYSTELNKPAMIYCSHGDGHVHAQCMDLAERTLIHLSAGSNKYCNE  
HVEIARALHTPQRVLPKKPPMKSLRKKGSGKILTPAKKSFLRRLFD

>sp|060896|RAMP3\_HUMAN Receptor activity-modifying protein 3 OS=Homo sapiens GN=RAMP3 PE=1 SV=1

METGALRRPQLPLLLLLCGGCPRAGGCNETGMLERLPLCGKAFADMMGKVDVWKCNS  
EFIVYYESFTNCTEMEANVVGCYWPNPLAQGFITGIHRQFFSNCTVDRVHLEDPPDEVLI  
PLIVIPVVLTVAMAGLVVWRSKRTDTLL

>sp|P62826|RAN\_HUMAN GTP-binding nuclear protein Ran OS=Homo sapiens GN=RAN PE=1 SV=3

MAAQGEPPQVQFKLVVGDDGTGKTTFVKRHLTGEFEKKYVATLGVEVHPLVFHTNRGPIK  
FNVWDTAGQEKFGGLRDGYIIQAQCAIIMFDVTSRVTYKNVPNWHDLVRVCENIPIVLC  
GNKVDIKDRKVKAKSIVFHRKKNLQYYDISAKSNYNFEKPFLLWARKLIGDPNLEFVAMP  
ALAPPEVVMPPALAAQYEHDLVAQTALPDEDDDL

>sp|P10276|RARA\_HUMAN Retinoic acid receptor alpha OS=Homo sapiens GN=RARA PE=1 SV=2

MASNSSSCTPGGGHLNGYPVPPYAFFFFPMLGGLSPPGALTTLQHQLPVSGYSTPSPAT  
IETQSSSSEEIVSPSPSPPLPRIYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNM  
VYTCHRDKNCIINKVTRNRCQYCRLLQKCFEVGMSKESVRNDRNKKKEVPKPECSESYTL  
TPEVGELIEKVRKAHQETFPALCQLGKYTTNNSSEQRVSLDIDLWDFSELSTKCIKTV  
EFAKQLPGFTTLTIADQITLLKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNA  
GFGPLTDLVFANQLLPLEMDAETGLLSAICLICGDRQDLEQPDRVDMLQEPLLEALK  
VYVRKRPSRPHMFPKMLKITDLRSISAKGAERVITLKMIEPGSMPLIQEMLENSEGL  
DTLSGQPGGGGRDGGGLAPPPGSCSPSLSPSSNRSSPATHSP

>sp|P20936|RASA1\_HUMAN Ras GTPase-activating protein 1 OS=Homo sapiens GN=RASA1 PE=1 SV=1

MMAAEAGSEEGPVTAGAGGGGAAAGSSAYPAVCRVKIPAAALPVAAPYPGLVETGVAGT  
LGGGAALGSEFLGAGSVAGALGGAGLTGGGTAAGVAGAAAGVAGAAGVAGPSGDMALTKLP  
TSLLAETLPGGGFPPLPPPPYLPPLGAGLTVDEGDSLDPGEYEEEEVAIPLTAPPTNQ  
WYHGKLDRTIAEERLRQAGKSGSYLIRESDRRPGSFVLSFLSQMNVVNHFRIIAMCGDYY  
IGGRRFSSLSDLIGYYSHVSCLLKGEKLLYPVAPPEPVEDRRRVRAILPYTKVPDTDEIS  
FLKGDMFIVHNELEDGMMWVTNLRTDEQGLIVEDLVEEVGREEDPHEGKIWFHGKISKQE  
AYNLLMTVGQVCSFLVRPSDNTPGDYSLYFRTNENIQRFKICPTPNNQFMMGGRYNSIG  
DIIDHYRKEQIVEGYLKEPVPMDQEQVLNDTVDGKEIYNTIRRKTDAFYKNIVKKGY  
LLKKGKGRWKNLYFLEGSDAQLIYFESEKRATKPKGLIDLSVCSVYVHDSLFGRPNC  
FQIVVQHFSEEHYIFYFAGETPEQAEDWMKGLQAFCNLRKSSPGTSNKRLRQVSSVLHI  
EEAHKLPVKHFTNPYCNILNSVQVAKTHAREGQNPVWSEEFVFDLPPDINRFEITLSN  
KTKSKDPDILFMRQLSRLQKGHATDEWFLSSHIPLKGIEPGSLRVRARYSMEKIMPE  
EEYSEFKELILQKELHVYALSHVCGQDRTLLASILLRIFLHEKLESLLLCTLNDREISM  
EDEATTLFRATTLASTLMEQYMKATATQFVHHALKDSILKIMESKQSCELSPSKLEKNED  
VNTNLTHLLNLSLVEKIFMASEILPPTLRYIYGCLQKSVQHKWPTNTMTTRVVS GFV  
FLRLICPAILNPRMFNIISDSPSPIAARTLILVAKSVQNLANLVEFGAKEPYMEGVNPF  
KSNKHRMIMFLDELGNVPELPDTEHSRTDLSRDLAALHEICVAHSDELRTLSNERGAQQ  
HVLKLLAITELLQKQKNQYTKTNDVR

>sp|Q15283|RASA2\_HUMAN Ras GTPase-activating protein 2 OS=Homo sapiens GN=RASA2 PE=1 SV=3

MAAAAPAAAAASSEAPAASATAEPEAGDQDSREVRVLQSLRGKICEAKNLLPYLGPHKMR  
DCFCTINLDQEEVYRTQVVEKSLSPFFSEEFYFEIPRTFQYLSFYVYDKNVLQRDLRIGK  
VAIKKEDLCNHSGKETWFSLQPVDSNSEVQGVHLELKNELITENGTVCCQLVHHKAC  
HGLPLINGQSCDPYATVSLVGPSRNDQKKTKVKKKTSNPQFNEIFYFEVTRSSSYTRKSQ  
FQVEEDIEKLEIRIDLWNNGNLVQDVLGEIKVPVNVLRDSSHQAWYLLQPRDNGNKS

SKTDDLGSRLNICYTEDYVLPSEYYGPKLTLLLKSPDVQPI SASAAYILSEICRDKNDA  
VLPLVRLLLHHDKLVPFATAVAELDLKDTQDANTIFRGNSLATRCLDEMMKIVGGHYLKV  
TLKPILDEICDSSKSCEIDPIKLKEGDNVENNKENLRYYYDKLFNTIVKSSMSCPTVMCD  
IFYSLRQMATQRFNPDPHVQYSAVSSFVFLRFFAVAVVSPHTFHLRPHHPDAQTIRTLTL  
ISKTIQTLGSWGSLSKSKSSFKETFMCEFFKMFQEEGYIIAVKKFLDEISSTETKESST  
SEPVHLKEGEMYKRAQGRTRIGKKNFKRWFLCLTSRELYHKQPGSKDAIYTIPVKNILA  
VEKLEESSFNKKNMFQVIHTEKPLYVQANNCVEANEWIDVLCRVSRCNQRLSFYHPSVY  
LNGNWLCCQETGENTLGCKPCTAGVPADIQIDIDEDRETERIYSLFTLSLLKLQKMEEAC  
GTIAVYQGPQKEPDDYSNFVIEDSVTTFKTIQKIKSIIIEKLDEPHEKYRKKRSSSAKYGS  
KENPIVGKAS

>sp|Q8IZ41|RASEF\_HUMAN Ras and EF-hand domain-containing protein OS=Homo sapiens GN=RASEF  
PE=1 SV=1

MEADGDGEELARLSVFAACDANRSGRLEREFRALCTELRVRPADAEAVFQRLDADRDG  
AITFQEFARGFLGSLRGRRRDWGPLDPAPAVSEAGPETHDSEDEGEDAAAAALATSCG  
PASPRAWQDFQARLGDEAKFIPREEQVSTLYQNINLVEPRLIQPYEHVKNFIREIRLQ  
STEMENLAIAVKRAQDKAAMQLSELEEEMDQRIQAAEHKTRKDEKRKAEALSDLRRQYE  
TEVGDLQVTIKKLRKLEEQSKRVSQKEDVAALKKQIYDLSMENQKVKKDLLEAQTNIAFL  
QSELDALKSDYADQSLNTERDLEIRAYTEDRNSLERQIEILQTANRKLHDSNDGLRSAL  
ENSYSKFNRLHINNISPNTISRSSPKFIGHSPQLGYDRSSRSYVDEDCDSLALCDP  
LQRTNCEVDSLPESCFDSGLSTLRDPNEYDSEVEYKHQRGFQRSHGVQESFGGDASDTDV  
PDIRDEETFGLEDVASVLDWPKQGSVSEGSIVSSSRKPI SALSPQTDLVDDNAKSFSSQK  
AYKIVLAGDAAVGKSSFLMRLCKNEFRENISATLGVDQFQMKTLIVDGERTVLQLWDTAGQ  
ERFRSIAKSYFRKADGVLLLYDVTCEKSFLNIREWVDMIEDAAHETVPIMLVGNKADIRD  
TAATEGQKCVPGHFGEKLA MTYGALFCETSAKDGSNIVEAVLHLAREVKKRTDKDSDRSI  
TNLTGTNSKKSPQMKNCNG

>sp|Q7Z444|RASE\_HUMAN GTPase ERas OS=Homo sapiens GN=ERAS PE=2 SV=1

MELPTKPGTFDLGLATWSPSFQGETHRAQARRRDVGRQLPEYKAVVVGASGVGKSALTIQ  
LNHQCFVEDHDPTIQDSYWKELTLDSGDCILNVLDTAGQAIHRLALRDQCLAVCDGVLGVF  
ALDDPSSLIQLQIWIATWGPHPAQPLVLVGNKCDLVTTAGDAHAAAAALAHSWGAFHVFET  
SAKTRQGVEEAFSLLVHEIQRVQEAMAKEPMARSCREKTRHQKATCHCGCSVA

>sp|O95294|RASL1\_HUMAN RasGAP-activating-like protein 1 OS=Homo sapiens GN=RASAL1 PE=1  
SV=3

MAKSSSLNVRVVEGRALPAKDVSGSSDPYCLVKVDDEVVARTATVWRS LGPFWGEEYTVH  
LPLDFHQLAFYVLDEDTVGHDDIIGKISLSREAITADPRGIDSWINLSRVPDAEVQGEI  
CLSVQMLEDGQGRCLRCHVLQARDLAPRDISGTSDPFARVFWGSQSLETSTIKKTRFPHW  
DEVLELREMPGAPSPLRVELWDWDMVGKNDFLGMVEFSPKTLQQKPPKGWFRLLPFPRAE  
EDSGGNL GALRVKRLIEDRVLPSCYQPLMELLMESVQGPAAEDTASPLALLEELTLGD  
CRQDLATKLVKLFLGRGLAGRFLDYLTRREVARTMDPNTLFRSNSLASKSMEQFMKLVGM  
PYLHEVLKPVISRVFEEKKYMELDPCKMDLGRTRRISFKGALSEEQMRSETSLGLLTG YLG  
PIVDAIVGSVGRCPAMRLAFKQLHRRVEERFPQAEHQDVKYLAISGFLFLRFFAPAILT  
PKLFDLRDQHADPQTSRSLLLAKAVQSIGNLGQQLGQKELWMAPLHPFLLQCVSRVRD  
FLDRLVDVDGDEAGVPARALFPPSAIVREGYLLKRKEEPAGLATRF AFKKRYVWLSGETL  
SFSKSPewQMCHSIPVSHIRAVERVDEGAFQLPHVMQVVTQDGTGALHTTYLQCKNVNEL  
NQWLSALRKASAPNPNKLAACHPGA FR SARWTCCLQAERSAAGCSRTHSAVTLGDWSDPL

DPDAEAQTVYRQLLLGRDQLRLKLEDSNMDTTLEADTGACPEVLARQRAATARLLEVL  
DLdraHEEFQQQERGKAALGPLGP

>sp|Q14088|RAB3A\_HUMAN Ras-related protein Rab-3A OS=Homo sapiens GN=RAB3A PE=1 SV=2

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIIVIGDSNVGKTCLTRFCGGT  
FPDKTEATIGVDFREKTVEIEGEKIKVQVWDTAGQERFRKSMVEHYRNVHAVVFVYDVT  
KMTSFTNLKMWIQECNGHAVPPLVPKVLVGNKCDLREQIQVPSNLALKFADAHNMLLFET  
SAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEFPQEANSKTSCPC

>sp|Q15291|RBBP5\_HUMAN Retinoblastoma-binding protein 5 OS=Homo sapiens GN=RBBP5 PE=1  
SV=2

MNLELLESFGQNYPEEADGTLDCISMALCTCFNRWGTLAVGCNDGRIVIWDFLTRGIAK  
IISAHIHPVCSLCSRDGHKLVSASTDNIVSQWDVLSGDCDQRFSPILKVQYHPRDQ  
NKVLVCPMKSAPVMLTSDSKHVLPVDDSDLVNVASFDRRGEYIYTGNAKGKILVLKT  
DSQDLVASFRVTTGTSNTTAKSIEFARKGSCFLINTADRIIRVYDGREILTCGRDGEPE  
PMQKLQDLVNRTPWKKCCFSGDGEYIVAGSARQHALYIWEKSIGNLVKILHGTRGELLDD  
VAWHPVRPIIASISSGVVSIWAQNQVENWSAFAPDFKELDENVEYEERESEFDIEDKES  
EPEQTGADAAEEDVDVTSVDPIAAFCSSDEELEDKALLYLPIAPEVEDPEENPYGPPP  
DAVQTSMLDEGASSEKKRQSSADGSQPPKKPKTTNIELQGVPNDEVHPLLGVKGDGKSK  
KKQAGRPKGSKGKEKDSFPKPKLYKGDRGLPLEGSAKGKVQAELSQPLTAGGAISELL

>sp|P98175|RBM10\_HUMAN RNA-binding protein 10 OS=Homo sapiens GN=RBM10 PE=1 SV=3

MEYERRGGRDRTGRYGATDRSQDDGGENRSRDHDYRDMYRSYPREYGSQEGKHDYDDS  
SEEQSAEDSYEASPGSETQRRRRRRHRHSPTGPPGFPRDGDYRDQDYRTEQEEEEEEED  
EEEEKASNIVMLRMLPQAATEDDIRGQLQSHGVQAREVLRMRNKSSGQSRGFAFVEFSH  
LQDATRWMEANQHSLNILGQKVMHYSDPKPKINEDWLCNKGCVQNFRRREKCFKCGVPK  
SEAEQKLPLGTRLDQQTLPGLGRELSQGLLPLPQPYQAQGVLASQALSQGSEPSSENAND  
TII LRNLNPHSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFAFIQLSTIVEAAQLL  
QILQALHPPLTIDGKTINVEFAKGSKRDMASNEGSRIASAASVASTAIAAAQWAIQSASQG  
GEGTWTATSEPPVDYSYYQQDEGYGNSQGTESLYAHGYLKGTKGPGITGTKGDPTGAGP  
EASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQSYTIMSPAULKSELQ  
SPTHPSALPPATSPTAQESYSQYPVPDVSTYQYDETSYGYYPQTGLYYDPNSQYYNA  
QSQQYLYWDGERRTYVPALEQSADGHKETGAPSKEGKEKKEKHKTAKQIAKDMERWAR  
SLNKQKENFKNFQPISSLRDDERRESATADAGYAILEKKGALAERQHTSMDLPKLASDD  
RPSPPRGLVAAYSGESDSEEEQERGGPEREEKLTDWQKLACLLCRRQFPSKEALIRHQQL  
SGLHKQNL EIHRAHLSENELEALEKNDMEQMKYRDRAAERREKYGIPEPPEPKRRKYGG  
ISTASVDFEQPTRDLGSDNIGSRMLQAMGWKEGSGLGRKKQGIVTPIEAQTRVRGSGLG  
ARGSSYGVSTESYKETLHKTMVTRFNEAQ

>sp|Q96T37|RBM15\_HUMAN Putative RNA-binding protein 15 OS=Homo sapiens GN=RBM15 PE=1 SV=2

MRTAGRDPVPRRSRWRRAVPLCETSAGRRVTQLRGDDLRRPATMKGKERSPVKAKRSRG  
GEDSTRGERSKKLGGSGGNGSSSGKTDSGGGSRRSLHLDKSSSRGGSREYDTGGGSSS  
SRLHSYSSPSTKNSSGGGESRSSRGGGESRSSGAASSAPGGGDGAELYKTLKISELGSQ  
LSDEAVEDGLFHEFKRFGDVSVKISHLSGSGSGDERVAFVNFRRPEDARAACHARGRLVL  
YDRPLKIEAVYVSRRRSRSPDKDTPPSASVVGASVGGHRHPPGGGGGQSLSPGGAAL  
GYRDYRLQQLALGRLPPPPPLPRDLERERDYPFYERVRPAYSLPRVGAGAGAAPFRE  
VDEISPEDDQRANRTLFLGNLITVTESDLRRAFDRFGVITEVDIKRPSRGQTSTYGFLK  
FENLDMSHRAKLAMSGKIIIRNPIKIGYKATPTTRLWVGGLGPVWPLAALAREFDRFGT



IRTIDYRKGDSWAYIQYESLDAHAATHMRGFPLGGPDRRLRVDFADTEHRYQQQYLQP  
LPLTHYELVTDAGHRAFDPLRGARDRTPPLLYRDRDRDLYPDSWVPPPPVRRERSTR  
AATSVPAYEPLDSLDRRRDGLDRDRDLPSSRDQPRKRRLPEESGGRHLDRSPESD  
RPRKRHCAPSPDRPELSSSRDRYNSDNRSSRLLLERPSPIRDRRGSLKESQGDKRDRK  
NSASAERDRKHRTTAPTEGKSPLKKEDRSDGSAPSTSTASSKLKSPSQKQDGGTAPVASA  
SPKLCLAWQGMLLLKNSNFPNSMHLLQGDLQVASSLLVEGSTGGKVAQLKITQRLRLDQP  
KLDEVTRRIKVAGPNGYAILLAVPGSSDSRSSSSSAASDTATSTQRPLRNLSYLKQKQA  
AGVISLPVGGNKDKENTGVLHAFPPCEFSQQFLDSPAKALAKSEEDYLVMIIVRGFGFQI  
GVRYENKKRENALTL

>sp|Q9NW64|RBM22\_HUMAN Pre-mRNA-splicing factor RBM22 OS=Homo sapiens GN=RBM22 PE=1 SV=1

MATSLGSNTYNRQNWEDADFPILCQTCLGENPYIRMTKEKYGKECKICARPFTVFRWCPG  
VRMRFKKTEVCQTC SKLKNVCQTCLLDLEYGLPIQVRDAGLSFKDDMPKSDVNKEYYTQN  
MEREISNSDGRTPVGM LGKATSTSDMLLKLARTTPYYKRNRPHICSFVVKGECKRGEECP  
YRHEKPTDPPDPLADQNIKDYYGINDPVADKLLKRASTMPRLDPEDKTITTLTVGGGLG  
DTITETDLRNHFYQFGEIRTITVVQRQQCAFIQFATRQAAEVAAEKSFNKLIVNGRRLNV  
KWGRSQAARGKEKEKDGTTDSGKLEPVPGLP GALPPPPAAEEEASANYFNLPPSGPPAV  
VNIALPPPPGIAPPPPPGFGPHMFHMPGPPPPFMRAPGPIHYPSQDPQRMGAHAGKHSSP

>sp|Q9BX46|RBM24\_HUMAN RNA-binding protein 24 OS=Homo sapiens GN=RBM24 PE=1 SV=1

MHTTQKDDTTYTKIFVGGLPYHTDASLRKYFEVFGIEEAVVITDRQTGKSRGYGFTMA  
DRAAAERACKDPNPIIDGRKANVNLAYLGAKPRIMQPGFAFGVQQLHPALIQRPFIPAH  
YVYPQAFVQPGVIVPHVQPTAAAASTTPYIDYTGAAYAQSAAAAAAAAAAAYDQYPYAA  
SPAAAGYVTAGGYGYAVQQPITAAAPGTAAAAAAAAAAAAAFGQYQPQQLQTD RMQ

>sp|P98179|RBM3\_HUMAN RNA-binding protein 3 OS=Homo sapiens GN=RBM3 PE=1 SV=1

MSSEEGKLFVGG LNFNTDEQALEDHFSSFGPISEVVVVKDRETQRSRGFGFITFTNPEHA  
SVAMRAMNGESLDGRQIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDS  
RPGGYGYGYGRSDYNGRNQGGYDRYSGGNYRDNYDN

>sp|Q9BTD8|RBM42\_HUMAN RNA-binding protein 42 OS=Homo sapiens GN=RBM42 PE=1 SV=1

MAGAGPAPGLPGAGGPVVP GPAGIPGKSGEERLKEMEAEMALFEQEVLGAPVPGIPTAV  
PAVPTVPTVPTVEAMQVPAAPVIRPIIATNTYQQVQQTLEAAAAAATVPPPMVGGPPFV  
GPVGFPGDRSHLDSPEAREAMFLRRAAVAPQRAPILRPAFVPHVLQRADSALSSAAAGP  
RPMALRPPHQALVGPPLP GPPPGPPMMLPPMARAPGPPLGSMAALRPPEEPAAPRELGLG  
LGLGLKEKEEAVVAAAAGLEEASAAVAVGAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL  
PLEVVRGLLPPLRIPELLSLRPRPRPRPEPPPGLMALEVPEPLGEDKKKGKPEKLKRCI  
RTAAGSSWEDPSLLEWDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGK  
TKGYGFVSFKDPDSDYVRAMREMNGKYVGSRPILKRKSMWKDRNL DVVRKKQKEKKKLGLR

>sp|Q6ZSC3|RBM43\_HUMAN RNA-binding protein 43 OS=Homo sapiens GN=RBM43 PE=2 SV=1

MASVLNVKESKAPERTVVVAGLPVDLFSQQLLAVLVKSHFQDIKNEGGDVEDVIYPTRTK  
GVAYVIFKEKKVAENVIRQKKHWLARKTRHAELTVSLRVSHFGDKIFSSVNAILDLSVFG  
KEVTLETLVKDLKKKIPSLSFSP LKPNGRISVEGSFLAVKRLRESLLARACSLLEKDRNF  
TSEERKWNRNQPNQRNLQRSNNSLASVRTLPETARSGEMLVLDTDVFLYLKHKCGSYEST  
LKKFHILSQEKVDGEIT TICLSIQVGSQPNNAKHVKELIEEWSHALYLKLRKETFILEG  
KENREKRMIRACEQLSSRYLEVLINLYRTHIDIIGSSSDTYLFKKGVMKLGQKVS

>sp|Q8TBY0|RBM46\_HUMAN Probable RNA-binding protein 46 OS=Homo sapiens GN=RBM46 PE=2 SV=1

MNEENIDGTNGCSKVRTGIQNEAALLALMEKTGYNMVQENGQRKFGGPPPGWEGPPPPRG

CEVFGKIPRDMYEDELVPVFERAGKIYEFRLMMEFSGENRGYAFVMTTKEEAQLAIRI  
LNNYEIRPGKFIGVCVSLDNCRLFIGAIPKEKKKEEILDEMKKVTEGVVDVIVYPSATDK  
TKNRGFAFVEYESHRAAAMARRKLIPGTFQLWGHTIQVDWADPEKEVDEETMQRVKLYV  
RNLMISTTEETIKAEFNKFKPGAVERVKKLRDYAFVHFFNREDAVAAMSVMNGKCIDGAS  
IEVTLAKPVNKENTWRQHNLNGQISPNSENLIVFANKEESHPKTLGKLPTLPARLNGQHSP  
SPPEVERCTYFPYPGTKLTPISMSLKSNNHFN SAVMHLDYCNKNNWAPPEYYLYSTTSQ  
DGKVLVLYKIVIPAIANGSQSYFMPDKLCTTLEDAKELAAQFTLLHLDYNFHRSSINSL  
PVSATLSSGTPSVLPYTSRPSYSGYPLSPTISLANGSHVQRLCISNQASFF

>sp|Q9BWF3|RB4\_HUMAN RNA-binding protein 4 OS=Homo sapiens GN=RB4 PE=1 SV=1

MVKLFIGNLPREATEQEIRSLFEQYGVLECDIKNYGFVHIEDKTAEDAIRNLHHYKL  
HGVNINVEASKNKSSTKLHVGNISPTCTNKELRAKFEEYGPVIECDIVKDYAFVHMER  
AEDAVEAIRGLDNTEFQGKRMHVQLSTSRLRTAPGMGDQSGCYRCGKEGHSKECPIDRS  
GRVADLTEQYNEQYGAVRTPYTMSYGDSLYNNAYGALDAYYKRCRAARSYEAVAAAAAS  
VYNYAEQTLSQLPQVNTAMASHLTSTSLDPYDRHLLPTSGAAATAAAAAAAAVTAAS  
TSYYGRDRSPLRRATAPVPTVGEYGYGHESELQASAAARNSLYDMARYEREQYADRAR  
YSAF

>sp|P78332|RB6\_HUMAN RNA-binding protein 6 OS=Homo sapiens GN=RB6 PE=1 SV=5

MWGDSRPANRTGPFGRSQEERFAPGWNRDYPPPLKSHAQERHSGNFPGRDSLPPDFQGH  
SGPPFANVEEHSFSYGARDGPHGDYRGEGPGHDFRGGDFSSSDFQSRDSSQLDFRGRDI  
HSGDFRDREGPPMDYRGGDGTSMDYRGREAPHMNYRDRDAHAVDFRGRDAPPSDFRGRGT  
YDLDFRGRDGSHADFRGRDLSDLDFRAREQSRSDFRNRDVSDDLFRDKDGTQVDFRGRGS  
GTTDLDFRDRDTPHSDFRGRHRSRTDQDFRGREMGSCMEFKDREMPPVDPNILDYIQPST  
QDREHSGMNVNRREESTHDHTIERPAFGIQKGEFEHSETREGETQGVAFEHESPADFQNS  
QSPVQDQDKSQLSGREEQSSDAGLFKEEGGLDFLGRQD TDYRSMYRDVDHRLPGSQMFG  
YGQSKSFPEGKTARDAQRDLQDQDYRTGPSEEKPSRLIRLSGVPEDATKEEILNAFRTPD  
GMPVKNLQLKEYNTGYDYGVCVEFSLLEDAIGCMEANQGTLMIQDKEVTLEYVSSLDFW  
YCKRCKANIGHRSSCSFCKNPREVTEAKQELITYPQPQKTSIPAPLEKQPNQPLRPADK  
EPEPRKREEGQESRLGHQKREAERYLPSSRREGPTFRDRERESWSGETRQDGESKTIML  
KRIYRSTPPEVIVEVLEPYVRLTTANVRIKNRTGPMGHTYGFIDLSHAEALRVVKILQ  
NLDPPFSIDGKMVAVNLATGKRRNDSGDHSDMHYYQGKKYFRDRRGGRNSDWSSDTNR  
QGGQSSSDCYIYDSATGYYYDPLAGTYYPNTQQEVYVPQDPGLPEEEEEIKEKKPTSQGK  
SSSKKEMSKRDGKEKKDRGVTRFQENASEGKAPAEDVFKKLPPTVKKEESPPPKVNP  
LIGLLGEYGGDSYEEEEEEETPPPPQRTAQPPQKREEQTKKENEEDKLTWNKLACLLC  
RRQFPNKEVLIKHQQLSDLHKQNL EIHKKIKQSEQELAYLERREREGKFKGRGNDRREKL  
QSFDSPERKRIKYSRETSDRKLVDKEDIDTSSKGGCVQATGWRKGTGLGYGHPGLASS  
EEAEGMRGSPVGASGRTSKRQSNETYRDAVRRVMFARYKELD

>sp|Q9Y5S9|RB8A\_HUMAN RNA-binding protein 8A OS=Homo sapiens GN=RB8A PE=1 SV=1

MADVLDLHEAGGEDFAMDEGDSEIHKLEKAKKRKGRGFGSEEGSRARMREDYDSVEQD  
GDEPGPQRSVEGWILFVTGVHEEATEEDIHDKFAEYGEIKNIHLNDRRTGYLKGYTLVE  
YETYKEAQAAMEGLNGQDLMGQPI SVDWCFVRGPPKGRRGRRRSRSPDRRRR

>sp|Q92804|RBP56\_HUMAN TATA-binding protein-associated factor 2N OS=Homo sapiens GN=TAF15  
PE=1 SV=1

MSDSGSYGGSGGEQQSYSTYGNPGSQGYGQASQSYSGYGQTTDSSYGQNYSGYSSYGQSQ  
SGYSQSYGGYENQKQSSYSQQPYNNQGGQQNMESSGSQGGRAPSYDQPDYGGQDSYDQQS

MALVALVAGARLGRRLSGPGLGRGHTAARRSRSRREAAEAEAEVPPVQYVGERAARADR  
VFVWGFSGALGVPSFVPSSGPGPRAGARPRRIQPPYRLELDQKISSAACGYGFTL  
LSSKTADVTKVWGMGLNKDSQLGFHRSRKDKTRGYEYVLEPSVSLPLDRPQETRVLQVS  
CGRAHSLVLTDREGVFSMGNNISYGCGRKVVENEIYSESHRVHRMQDFDQGVVQVACGQD

HSLFLTDKGEVYSCGWGADGQTGLGHYNITSSPTKLGGDLAGVNNIQVATYGDCCCLAVSA  
DGGLFGWGNSEYLQLASVTDSTQVNVPRCLHFSGVGKVRQAACGGTGCAVLNNEGHEVFW  
GYGILGKGNLVESAVPEMIPPTLFLGLTEFNPEIQVSRIRCGLSHFAALTNKGELFVWGK  
NIRGCLGIGRLEDQYFPWRVTMPGEPVDVACGVDHMTLAKSFI

>sp|P26374|RAE2\_HUMAN Rab proteins geranylgeranyltransferase component A 2 OS=Homo sapiens GN=CHML PE=1 SV=2

MADNLPTEFDVVIIGTGLPESILAAACSRSGQVRLHIDSRSYGGNWSFSFSGLLSWLK  
EYQQNNDIGEESTVWQDLIHETEEAITLRKKDETIQHTAEFCYASQDMEDNVEEIGALQ  
KNPSLGSNTFTFEVLDSALPEESQLSYFNSDEMPAKHTQKSDTEISLEVTDVESVEKEK  
YCGDKTCMHTVSDKDGDKDESKSTVEDKADEPIRNRITYSQIVKEGRRFNIDLVSLLYS  
QGLLIDLLIKSDVSRVVEFKNVTRILAFREGKVEQVPCSRADVFNKELTMVEKRMLMKF  
LTFCLEYEQHPDEYQAFRQCSFSEYLKTKKLTPLQHFVLHSIAMTSESSCTTIDGLNAT  
KNFLQCLGRFGNTPLFLPLYGQGEIPQGFCRMCVFGGIYCLRHKVQCFVVDKESGRCKA  
IIDHFGQRINAKYFIVEDSYLSEETCSNVQYKQISRVLITDQSILKTDLDQQTSLIVP  
PAEPGACAVRVTELCSSMTMKDLYLHLTCSSSKTAREDLSEVVKLFPTPYTETEINE  
EELTKPRLLWALYFNMRDSSGISRSSYGLPSNVYVCSGPDGCLGNEHAVKQAETLQEI  
FPTEEFPPPPNPEDIIFDGDDKQPEAPGTNNVMAKLESSEESKNLESPEKHLQN

>sp|P04049|RAF1\_HUMAN RAF proto-oncogene serine/threonine-protein kinase OS=Homo sapiens GN=RAF1 PE=1 SV=1

MEHIQGAWKTIISNGFGFKDAVFDGSSCISPTIVQQFGYQRRASDDGKLTDPKTSNTIRV  
FLPNKQRTVVNVNRNGMSLHDCLMKALKVRGLQPECCAVFRLLEHKGKKARLDWNTDAAS  
LIGEELQVDFLDHVPLTTHNFARKTFLKLAFCDICQKFLNGFRCQTCGYKFHEHCSTKV  
PTMCDVWSNIRQLLLFPNSTIGDSGVPALPSLTMRMRRESVSRMPVSSQHRYSTPHAFTF  
NTSSPSSEGSLSQRQSTSTPNVHMVSTTLPVDSRMIEDAIRSHSESASPSALSSSPNNL  
SPTGWSQPKTPVPAQRERAPVSGTQEKNKIRPRGQRDSSYYWEIEASEVMLSTRIGSGSF  
GTVYKGKWHGDVAVKILKVVDPTPEQFQAFRNEVAVLRKTRHVNILLFMGYMTKDNLAI  
TQWCEGSSLYKHLHVQETKFQMFQLIDIARQTAQGMDYLHAKNI IHRDMKSNNIFLHEGL  
TVKIGDFGLATVKSRSWGSQQVEQPTGSVLWMAPEVIRMQDNNPFSFQSDVYSYGIVLYE  
LMTGELPYSHINNRDQIIFMVGRGYASPDLSKLYKNCPKAMKRLVADCVKKVKEERPLFP  
QILSSIELLQHSLPKINRSASEPSLHRAAHTEDINACTLTSPRLPVF

>sp|Q5U651|RAIN\_HUMAN Ras-interacting protein 1 OS=Homo sapiens GN=RASIP1 PE=1 SV=1

MLSGERKEGGSPRFGLHLPVGLWINSPRKQLAKLGRRWPSAASVKSSSDTGSRSEPL  
PPPPPHVELRRVGAVKAAGGASGRAKRISQLFRSGTGTGSSGAGGPGTPGGAQRWAS  
EKKLPELAAGVAPEPLATRATAPPGVLKIFGAGLASGANYKSVLATARSTARELVAEAL  
ERYGLAGSPGGPGESSCVDAFALCDALGRPAAAGVSGEWRAEHLRVLGDSERPLLVE  
LWRARPGWARRFELRGEEARRLEQEAFGAADSEGTGAPSWRPQKNRSRAASGGAALASP  
GPGTGSGAPAGSGGKERSENLSLRRSVSELSLQGRRRRQEQERRQALSMAPGAADAQIGT  
ADPGDFDQLTQCLIQAPSNRPYFLLLQGYQDAQDFVYVYMTREQHVFGRGGNSSGRGGSP  
APYVDTFNLAPDILPRHCTVRAGPEHPAMVRPSRGAPVTHNGCLLLREAELHPGDLLGLG  
EHFLFMYKDPRTGGSGPARPPWLPARPGATPPGPGWAFSCRLCGRGLQERGEALAAAYLDG  
REPVLRFPRREEALLGEIVRAAAAGSGDLPLGPATLLALCVQHSARELELGHLPRLLG  
RLARLIKEAVWEKIKEIGDRQPENHPEGVPEVPLTPEAVSVELRPLMLWMANTTELLSFV  
QEKVLEMEKEADQEDPQLCNDLELCDEAMALLDEVIMCTFQQSVYYLTKTLYSTLPALLD  
SNPFTAGAELPGGAELGAMPPGLRPTLGVFQAALELTSQCELHPDLVSQTFGYLFFFSN

ASLLNSLMERGQGRPFYQWSRAVQIRTNLDLVDLWLQAGLGDIATEFFRKLSMAVNLLC  
VPRTSLLKASWSSLRTDHPTLTPAQLHHLLSHYQLGPGRGPPAAWDPPPAEREAVDTGDI  
FESFSSHPPLILPLGSSRLRLTGPVTDDALHRELRLRLLDLEQQELPANYRHGPPVA  
TSP

>sp|A6NC62|RAKDN\_HUMAN Putative RBAK downstream neighbor protein OS=Homo sapiens  
GN=RAKDN PE=5 SV=2

MLTPRKAFRTCSEKSLAETESCGQTHTWPRALAVLMGLWWPRDQKAGEEDLRFRRRRPG  
LQATATGSGEHGAFPVHSQGVWASTHWQGTAVCPLQTPPPDAFIRNNKVLS

>sp|P11233|RALA\_HUMAN Ras-related protein Ral-A OS=Homo sapiens GN=RALA PE=1 SV=1

MAANKPKGQNSLALHKVIMVSGGVGKSALTQFMYDEFVEDYEPTKADSYRKVVLDGE  
EVQIDILDTAGQEDYAAIRDNYFRSGEGFLCVFSITEMESFAATADFREQILRVKEDENV  
PFLLVGNKSDLEDKRQVSVEEAKNRAEQWNVNYVETSAKTRANVDKVFDFLMREIRARKM  
EDSKEKNGKKKRKSLAKRIRERCCIL

>sp|Q9UKM9|RALY\_HUMAN RNA-binding protein Raly OS=Homo sapiens GN=RALY PE=1 SV=1

MSLKLQASNVTNKNPKSINSRVFIGNLNTALVKKSDVETIFSKYGRVAGCSVHKGYAFV  
QYSNERHARA AVLGENGRVL AGQTLDINMAGEPKPDRPKGLKRAASAIYSGYIFDYDYR  
DDFYDRLFDYRGRLSPVPVPRAPVKRPRVTVPLVRRVKTNPVKLFARSTAVTTSSAKI  
KLKSSSELQAIKTELTIKSNIDALLSRLEQIAAEQKANPDGKKKGDDGGGAGGGGGGGSG  
GGGSGGGGGGSSRPAPQENTTSEAGLPQGEARTDDGDEEGLLTHSEEELEHSQDTDA  
DDGALQ

>sp|O60895|RAMP2\_HUMAN Receptor activity-modifying protein 2 OS=Homo sapiens GN=RAMP2  
PE=1 SV=2

MASLRVERAGGPRLPRTRVGRPAALRLLLLLGAVLNPHEALAQPLTTGTPGSEGGTVKN  
YETAVQFCWNHYKDQMDPIEKDWCDWAMISRPYSTLRDCLEHFAELFDLGFPNPLAERII  
FETHQIHFANCSLVQPTFSDDPEDVLLAMI IAPICLIPFLITLVVWRSKDSEAQA

>sp|Q9BTL3|RAM\_HUMAN RNMT-activating mini protein OS=Homo sapiens GN=FAM103A1 PE=1 SV=1

MTDTAEAVPKFEEMFASRFTENDKEYQEYLKRPPESPPIVEEWSRAGGNQRNRGNRLQD  
NRQFRGRDNRWGWSNRSNQWHGRSWGNNYPQHRQEPYPQYGHYGNRPPYGY

>sp|P61225|RAP2B\_HUMAN Ras-related protein Rap-2b OS=Homo sapiens GN=RAP2B PE=1 SV=1

MREYKVVVLGSGGVGKSALTQVFTGTSFIEKYDPTIEDFYRKEIEVDSSPSVLEILD  
TAGTEQFASMRDLYIKNGQGFI  
LVYSLVNQQSFQDIKPMRDQIIRVKRYERVPMILVGNKVDL  
EGEREVSYGEGKALAEWSCPFMETS  
AKNKASVDELFAEIVRQMNYAAQPNGDEGCCSAC  
VIL

>sp|Q9Y3L5|RAP2C\_HUMAN Ras-related protein Rap-2c OS=Homo sapiens GN=RAP2C PE=1 SV=1

MREYKVVVLGSGGVGKSALTQVFTGT  
FIEKYDPTIEDFYRKEIEVDSSPSVLEILD  
TAGTEQFASMRDLYIKNGQGFI  
LVYSLVNQQSFQDIKPMRDQIVRVKRYEKVPLILVGNKVDL  
EPEREVMSSEGRALAEWGCPFMETS  
AKSKSMVDELFAEIVRQMNYSSLPEKQDQCCTTC  
VVQ

>sp|Q13702|RAPSN\_HUMAN 43 kDa receptor-associated protein of the synapse OS=Homo sapiens  
GN=RAPSN PE=1 SV=4

MGQDQTKQIEKGLQLYQSNQTEKALQVWTKVLEKSSDLMGRFRVLGCLVTAHSEMGRYK  
EMLKFAVVQIDTARELEDADFLLESYLN  
LARSNEKLCEFHKTISYCKTCLGLPGTRAG  
AQLGGQVSLSMGNAFLGLSVFQKALESF  
EKALRYAHNDDAMLECRVCCSLGSFYA  
QVKDYEKALFFPCKAAELVNNYGK  
GWSLKYRAMSQYHMAVAYRLLGRLG  
SAMECCESMKIALQHG

DRPLQALCLLCFADIHRSGDLETAFFRYDSAMSIMTEIGNRLGQVQALLGVAKCWVARK  
ALDKALDAIERAQDLAEVGNKLSQLKLHCLSESIYRSKGLQRELRAHVVRFHECVEETE  
LYCGLCGESIGEKNRLQALPCSHIFHLRCLQNGTRSCPNCRRSSMKPGFV

>sp|P10826|RARB\_HUMAN Retinoic acid receptor beta OS=Homo sapiens GN=RARB PE=1 SV=2

MTTSGHACPVPAVNGHMTHYPATPYPLLFPVIGGLSLPPLHGLHGHPPPSGCSTPSPAT  
IETQSTSSEELVSPSPPLPPPRVYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNM  
IYTCHRDKNVCINKVTRNRCQYCRLQKCFEVGMSKESVRNDRNKKKKETSKQECTESYEM  
TAELDDLTEKIRKAHQETFPSLCQLGKYTTNSSADHRVRLDLGLWDFSELATKCI IKIV  
EFAKRLPGFTGLTIADQITLLKAACLDILILRICTRYTPEQD TMTFSDGLTLNRTQMHNA  
GFGPLTDLVFTFANQLPLEMDDTETGLLSAICLICGDRQDLEEPTKVDKLQEPLLEALK  
IYIRKRRPSKPHMFPKILMKITDLRSISAKGAERVITLKMEIPGSMPLIQEMLENSEGH  
EPLTPSSSGNTAEHSPSISPSSSVENSGVSQSPLVQ

>sp|O14807|RASM\_HUMAN Ras-related protein M-Ras OS=Homo sapiens GN=MRAS PE=1 SV=2

MATSAVPSDNLPYTKLVVVGDDGGVGSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQW  
AILDVLDTAGQEEFSAMREQYMRGTGDFLIVYSVTDKASFETHVDRFHLILRVKDRESFP  
MILVANKVDLMHLRKITREQGEMATKHNIPIYIETSAKDPPLNVDKAFHDLVRVIRQQIP  
EKSQKKKKKTKWRGDRATGTHKLQCVIL

>sp|Q9NTZ6|RBM12\_HUMAN RNA-binding protein 12 OS=Homo sapiens GN=RBM12 PE=1 SV=1

MAVVIRLQGLPIVAGTMDIRHFFSGLTIPDGGVHIVGGELGEAFIVFATDEDARLGMRT  
GGTIKGSKVTLTLLSSKTEMQNMIELSRRRFETANLDIPPANASRSGPPSSSGMSSRVNLP  
TTVSNNFNPSPSVTATTSVHESNKNIQTFSTASVGTAPPNMGASFGSPTFSSTVPSTAS  
PMNTVPPPIPIPIAMPSPMPSPPIPIVPPPVPTLPPVPPVPIPPVPSVPPMTPLPP  
MSGMPPLNPPPVAPLPAGMNGSGAPMNLNNLNPMFLGPLNPVNIQMNSQSSVKPLPIN  
PDDL YSVHGMFSA MENDVRDFHGLRVD AVHLLKDHVGRNNGNLVKFLSPQDTFEAL  
KRNRLMIQRYVEVSPATERQVVAAGGHITFKQNMGPSGQTHPPQTLP RSKSPSGQKRS  
RSRSPHEAGFCVYLKGLPFEAENKHVIDFFKKLDIVEDSIYIAYGPN GKATGEGFVEFRN  
EADYKAALCRHKQYMGNRFIQVHPITKKGMLEKIDMIRKRLQNF SYDQREMILNPEGDVN  
SAKVCAHITNIPFSITKMDVLQFLEGIPVDENAVHVLVDNNGQGLGQALVQFKNEDDARK  
SERLHRKKLNGREAFVHVVTLED MREIEKNPPAQGKKGLKMPVPGNPAVPGMPNAGLPGV  
GLPSAGLPGAGLPSTGLPGSAITSAGLPGAGMPSAGIP SAGGEEHAFLTVGSKEANN GPP  
FNFPNGFNGSNAFGPPIPPPGLGGGAFGDARPGMP SVGNSGLPGLGLDVPFGGGPNLS  
GPSFGGGGQNFNGPGSLGGPPGFGSGPPGLGSAPGHLGPPAFGPGPGPGPGPIHI  
GGPPGFASSSGKPGPTVIKVQNPFTVSIDEILDFFYGYQVIPGSVCLKYNEKGMPTGEA  
MVAFESRDEATAAVIDLND RPIGSRKVKLVLG

>sp|Q96H35|RBM18\_HUMAN Probable RNA-binding protein 18 OS=Homo sapiens GN=RBM18 PE=2 SV=1

MEAETKTLPLENASILSEGLQEGHRLWIGNLDPKITEYHLLKLLQKFGKVQFDFLFHK  
SGALEGQPRGYCFVNFETKQEA EQAIQCLNGKLALSKKL VVRWAHAQVKRYDHNKNDKIL  
PISLEPSSSTEPTQSNLSVTAKIKAIEAKLKMAENPD AEYPAAPVYSYFKPPDKKRTP  
YSRTAWKSRR

>sp|Q9P2N5|RBM27\_HUMAN RNA-binding protein 27 OS=Homo sapiens GN=RBM27 PE=1 SV=2

MLIEDVDALKSWLAKLLEPICDADPSALANYVVALVKDKPEKELKAFCADQLDVFLQKE  
TSGFVDKLFESLYTKNYLPLLEPVKPEPKPLVQEKEEIKEEVFQEP AEEERDGRKKKYPS  
PQKTRSESSERRTREKKREDGKWRDYDRYYERNELYREKYDWRRGRSKSRKSRGLSRSR  
SRSRGRSKDRDPN RNVHRERSKFKSERNDLESSYVPVSAPPPNSSEQYSSGAQSIPTV

TVIAPAHSENTTESWSNYNNHSSSNSFGRNLPKRRCDYDERGFCVLGDLQCQFDHGN  
DPLVVDEVALPSMIPFPPPPPGLPPLPPPPGMLPMPMPGPGPGPGPGPGPGPGHS  
MRLPVPQGHGQPPPSVVLPIPRPPITQSSLINSRDQPGTSAPVNLASVGTRLPPPLPQNL  
LYTVSERQPMYSREHGAAASERLQLGTPPPLLAARLVPPRNLMSGSIGYHTSVSSPTPLV  
PDTYEPDGYNPEAPSISSGRSQYRQFFSRTQTQRPNLIGLTSGDMDVNPRANIVIQTE  
PPVPVSINSNITRVVLEPDSRKRAMSGLEGPLTKKPWLKGKQNNNQKPGFLRKNQYTNT  
KLEVKKIPQELNNITKLEHFSKFGTIVNIQVAFKGDPEAALIQYLTNEEARKAISSTE  
VLNNRFIRVLWHRENNEQPTLQSSAQLLLQQQQLSHLSQQHHLPQHLHQQQVLVAQSA  
PSTVHGGIQKMSKPKTSGAYVLNKVPVKHRLGHAGGNQSDASHLLNQSGGAGEDCQIFS  
TPGHPKMIYSSSNLKTPSKLCSGSKSHDVQEVLLKKQKQAMKLQQDMRKKRQEVLEKQIEC  
QKMLISKLEKNKMKPEERANIMKTLKELGEKISQLKDELKTSSAVSTPSKVTKTEAQK  
ELLDTELDLHKRLSSGEDTTTELKKLSQLQVEAARLGILPVGRGKTMSSQGRGRGRGG  
RGRGSLNHMVVDHRPKALTVGGFIEEEKEDLLQHFSTANQGPKFKDRRLQISWHKPKVPS  
ISTETEEEEVKEETETSDLFLPDDDDDEDEYESRSWRR

>sp|P42696|RBM34\_HUMAN RNA-binding protein 34 OS=Homo sapiens GN=RBM34 PE=1 SV=2

MALEGMSKRKRKRSVQEGENPDDGVRGSPPEDYRLGQVASSLFRGEHHSRGGTGRLASLF  
SSLEPQIQPVYVPVKQTIKKTKRNEEEESTSQIERPLSQEPAAKVKAKKKHTNAEKKLA  
DRESALASADLEEEIHQKQGQKRKNSQPGVKVADRKILDDTEDTVVSQRKKIQINQEEER  
LKNERTVFVGNLPVTCNKKKLKSFFKEYQIESVRFRSLIPAEGTSLKKLAAIKRKIHPD  
QKNINAYVVFKEESAATQALKRNGAQIADGFRIRVDLASETSSRDKRSVFVGNLPYKVEE  
SAIEKHFLDCGSIMAVRIVRDKMTGIGKGFYVLFENTDSVHLALKLNSELMGRKLRVM  
RSVNKEKFKQNSNPRLKNVSKPKQGLNFTSKTAEGHPKSLFIGEKAVLLKTKKKGQKKS  
GRPKKQRKQK

>sp|Q5RL73|RBM48\_HUMAN RNA-binding protein 48 OS=Homo sapiens GN=RBM48 PE=2 SV=1

MASSGGELGSLFDHHVQRAVCDTRAKYREGRRPRAVKVYTINLESQYLLIQGVPAVGVMK  
ELVERFALYGAIEQYNALDEYPAEDFTEVYLKFMNLQSARTAKRKMDEQSFFGGLLHVC  
YAPEFETVEETRKKLQMRKAYVVKTTENKDHVYTKKKLVTEHKDTEDFRQDFHSEMSGFC  
KAALNTSAGNSNPYPYSCPLCYFSSKCMCSSGGPVDRAPDSSKDGRNHHKTMGHYNH  
NDSLRKTQINSLKNSVACPGAQKAITSSSEAVDRFMPRTTQLQERKRRREDDRKLGTFLQT  
NPTGNEIMIGPLLPDISKVDMHDDSLNTTANLIRHKLKEVISSVPKPPEDKPEDVHTSHP  
LKQRRRI

>sp|Q9UKL0|RCOR1\_HUMAN REST corepressor 1 OS=Homo sapiens GN=RCOR1 PE=1 SV=1

MVEKGPEVSGKRRGRNAAASASAAAAASAAACASPAATAASGAAASSASAAAAASAA  
APNNGQNKSLAAAPNGNSSSNWEEGSSGSSSDEEHGGGMRVGPQYQAVVPDFDPAKL  
ARRSQERDNLGMLVWSPNQLSEAKLDEYIAIAKEKHGYNMEQALGMLFWHKNHIEKSLA  
DLPNFTFPDEWTVEDKVLFEQAFSFHGKTFHRIQQMLPDKSIASLVKFYYSWKKTRTKT  
SVMDRHARKQKRERESEDELEEANGNNPIDIEVDQNKESKKEVPPTETVPQVKEKHST  
QAKNRAKRKPPKGMFLSQEDVEAVSANATAATTVLRLQDMELVSVKRQIQNIKQTNALK  
EKLDGGIEPYRLPEVIQKCNARWTTEEQLLAVQAIRKYGRDFQAISDVIGNKSVVQVKNF  
FVNYYRRRFNIDEVLQEWAEHGKEETNGPSNQKPKVSPDNSIKMPEEEDAPVLDVRYAS  
AS

>sp|Q9P2K3|RCOR3\_HUMAN REST corepressor 3 OS=Homo sapiens GN=RCOR3 PE=1 SV=2

MRVGAEYQARIPEFDPGATKYTDKDNNGMLVWSPYHSIPDAKLDEYIAIAKEKHGYNVEQ  
ALGMLFWHKNHIEKSLADLPNFTFPDEWTVEDKVLFEQAFSFHGKSFHRIQQMLPDKTI

ASLVKYYYSWKKTRSRTSLMDRQARKLANRHNQGDSDDDVEETHPMDGNSDYDPKKEAK  
KEGNTQPVQTSKIGLGRREYQSLQHRHHSQRSKCRPPKGMYLQEDVVAVSCSPNAANT  
ILRQLDMELISLKRQVQNAKQVNSALKQKMEGGIEEFKPPESNQKINARWTTEEQLLAVQ  
GVRKYGKDFQAIADVIGNKTVGVKNFFVNYRRRFNLEEVLEQWEAEQGTQASNGDASTL  
GEETKSASNVPSGKSTDEEEEAQTPQAPRTLGPSPAPSSPTPTAPIATLNQPPPLLRP  
TLPAAPALHRQPPPLQQARFIQPRPTLNQPPPLIRPANSMPRLNPRPVLSTVGGQQP  
PSLIGIQTDSQSSLH

>sp|Q9HBH5|RDH14\_HUMAN Retinol dehydrogenase 14 OS=Homo sapiens GN=RDH14 PE=1 SV=1

MAVATAAAVLAALGGALWLAARRFVGPVRVQLRRGGDPGLMHGKTVLITGANSGLGRATA  
AELLRLGARVIMGCRDRARAEAAQQLRRELQAAECGPEPGVSGVGELIVRELDASLR  
SVRAFQCQEMLQEEPRLDVLINNAGIFQCPYMKTEDGFEMQFGVNHGHLTNLLGLLK  
SSAPSRIVVVSSKLYKYGDINFDDLNSEQSYNKSFCYSRSLANILFTRELARRLEGTNV  
TVNVLHPGIVRTNLGRHIHPLLVKPLFNLVSWAFFKTPVEGAQTSIYLASSPEVEGVSG  
RYFGDCKEEELLPKAMDESVARKLWDISEVMVGLLK

>sp|Q8TAI7|REBL1\_HUMAN GTPase RhebL1 OS=Homo sapiens GN=RHEBL1 PE=1 SV=1

MPLVRYRKVVILGYRCVGKTSLAHQFVEGEFSEGYDPTVENTYSKIVTLGKDEFHLHLVD  
TAGQDEYSILPYSFIIGVHGYVLVYSVTSLSHSFQVIESLYQKLHEGHGKTRVPVVLVGNK  
ADLSPEREVQAVEGKKAESWGATFMESSARENQLTQGIFTKVIQEIARVENSYGQERRC  
HLM

>sp|O95072|REC8\_HUMAN Meiotic recombination protein REC8 homolog OS=Homo sapiens GN=REC8  
PE=1 SV=1

MFYYPNVLQRHTGCFATIWLAAATRGSRVLKREYLRVNVVKTCEEILNYVLVRVQPPQGL  
PRPRFSLYLSAQLQIGVIRVYSQQCQYLVEDIQHILERLHRAQLQIRIDMETELPSLLLP  
NHLAMMETLEDAPDPFFGMSVDPRLPSPFDIPQIRHLLEAAIPERVEEIPPEVPTPRE  
PERIPVTVLPEAITILEAEPIRMLEIEGERELPEVSRRELDLLIAEEEEAILLEIPRLP  
PPAPAEVEGIGEALGPEELRLTGWEPGALLMEVTPPEELRLPAPPSPERRPPVPPPPRRR  
RRRRLLFWDKETQISPEKFQEQLQTRAHCWECPMVQPPERTIRGPAELFRTPTLSGWLPP  
ELLGLWTHCAQPPKALRRELPEEAAAEEERRKIEVPSEIEVPREALEPSVPLMVSLEIS  
LEAAAAEKSRI SLIPPEERWAWPEVEAPEAPALPVVPELPEVPMEMPLVLPELELLSLE  
AVHRAVALELQANREPDFSSLVSPLSPRRMAARVFYLLLVLSAQQILHVKQEKPYGRLLI  
QPGPRFH

>sp|Q96R05|RET7\_HUMAN Retinoid-binding protein 7 OS=Homo sapiens GN=RBP7 PE=1 SV=1

MPADLSGTWTLSSDNFEGYMLALGIDFATRKIAKLLKPQKVIEQNGDSFTIHTNSSLRN  
YFVKFKVGEEFDENRGLDNRKCKSLVIWDNDRLTCIQKGEKKNRGWTHWIEGDKLHLEM  
FCEGQVCKQTFQRA

>sp|P07949|RET\_HUMAN Proto-oncogene tyrosine-protein kinase receptor Ret OS=Homo sapiens  
GN=RET PE=1 SV=3

MAKATSGAAGRLLLLLLLPLLGKVALGLYFSRDAYWEKLYVDQAAGTPLLYVHALRDAP  
EEVPSFRLGQHLYGTYRTRLHENNWICIQEDTGLLYLNRLDHSWEKLSVRNRGFPLLT  
VYLKVFLSPTSLREGEQWPGCARVYFSFFNTSFPACSSSLKPRELCFPETRPSFRIRENR  
PPGTFHQFRLLPVQFLCPNISVAYRLLLEGGLPFRCAPDSLEVSTRWALDREQREKYELV  
AVCTVHAGAREEVMVPFPVTYDEDDSAPTFPAGVDTASAVVEFKRKEDTVVATLRVFD  
ADVVPASGELVRRYTSTLLPGDTWAQQTFRVEHWPNETSVQANGSFVRATVHDYRLVLNR  
NLSISENRTMQLAVLVNDSDFQGPAGVLLLHFNVSVLPVSLHLPSTYSLSVSRRARRFA



QIGKVCVENCQAFSGINVQYKLHSSGANCS TLGVV TSAEDTSGILFVNDTKALRRPKCAE  
LHYMVVATDQQTSRQAQALLVTEGSYVAEEAGCPLSCAVSKRRLECEECGLGSPTGR  
CEWRQGDGKGITRNFSTCSPSTKTCPDGHCDVVETQDINICPDCLRGSI VGGHEPGEP  
GIKAGYGTNCNCFPEEEKCFCEPEDIQDPLCDEL CRTVIAAAVLFSFIVSVLLSAFCIH  
HKFAHKPPISSAEMTFRRPAQAFVSYSSSGARRPSLDSMENQVS VDAFKILEDPKW  
EFP RKNLVLGKTLGEGEF GKVVKATAFHLKGRAGYTTVAVKMLKENASPS  
ELRDLLSEFNVLK QVNHPHVIKLYGACSDGPLLLIVEYAKYGS  
LGRFLRESRKVGPGYLGSGGSRNSSSLDH PDERALTMGDLIS  
FAWQISQGMQYLAEMKLVHRDLAARNILVAEGRKMKISDFGLSRD  
VY EEDSYVKRSQGRIPVKWMAIESLFDHIYTTQSDVWSFGVLL  
WEIVTLGGNPYPGIPPERL FNLLKTGHRMERPDNCSEEM  
YRLMLQCWKQEPDKRPVFADISKDLEKMMVKRRDYLDLAA  
STPSDSL IYDDGLSEEETPLVDCNNAPLPRALPSTWIENKLYGMS  
DPNWPGESPVPLTRA DGTNTGFPRYPNDSVYANWMLSPSA  
AKLMDTFDS

>sp|Q9GZR2|REX04\_HUMAN RNA exonuclease 4 OS=Homo sapiens GN=REX04 PE=1 SV=2

MGKAKVPASKRAPSSPVAKPGPVKTLTRKKNKKKRFWKS  
KAREVSKKPASGPGAVVRPP KAPEDFSQNWKALQEWLLKQ  
KSQAPEKPLVISQMGSKKKPKIIQQNKKETSPQVKGEEMP  
AGKDQEASRGSVPSGSKMDRRAPVPRTKASGTEHNKKG  
TKERTNGDIVPERGDIHKKRK AKEAAPAPPTEDIWFD  
DVPADIEAAIGPEAAKIARKQLGQSEGSVSLSLVKEQAF  
GGL TRALALDCEMVGVPKGEESMAARVSIVNQYGKCVY  
DKYVKPTEPVTDYRTAVSGIRPEN LKQGEELEV  
VQKEVAEMLKGRILVGHALHNDLKVLFLDHPKKKIRDTQ  
KYKPKFSQVKSG RPSLRLLSEKILGLVQQA  
EHCSIQDAQAAMRLYVMVKKEWESMARDRRPLLTAPDHCSD  
DA

>sp|P62987|RL40\_HUMAN Ubiquitin-60S ribosomal protein L40 OS=Homo sapiens GN=UBA52 PE=1 SV=2

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQ  
QRLIFAGKQLEDGRTLSDYNIQKESTLHLVLR  
LRGGIIIEPSLRQLAQKYNC DKMICRKYARLHPRAVNC  
RKKKCGHTNN LRPKKKVK

>sp|P46777|RL5\_HUMAN 60S ribosomal protein L5 OS=Homo sapiens GN=RPL5 PE=1 SV=3

MGFVKVVKNKAYFKRYQVKFRRRREGKTDYYARKRLV  
IQDKNKYNTPKYRMIVRV TNRDI ICQIAYARIEGDM  
IVCAAYAHLPKYGVKVL TNYAAAYCTGLLLARRLLNR  
FGMDKIYE GQVEVTGDEYNVESIDGQPGAFTCYLDA  
GLARTTTGNKVFGALKGAVDGGLSIPHSTKRF  
PGYDSESKEFNAEVRHKHIMGQNVADYMRYLMEED  
EDAYKKQFSQYIKNSVTPDMMEEMY KKAHA  
AITRENPVYEKKPKKEVKKRWNRPKMSLAQKKDRV  
AQKKASFLRAQERAAES

>sp|P40429|RL13A\_HUMAN 60S ribosomal protein L13a OS=Homo sapiens GN=RPL13A PE=1 SV=2

MAEVQVLVLDGRGHLLGRLLAAIVAKQVLLGRKVVV  
VRCEGINISGNFYRNKLLKYLAFLRK RMNTNPSRGPY  
HFRAPSRIFWRTVRGMLPHKTKRGQAALDRLKVF  
DGIPPPYDKKKRMVV PAALKVVRLKPTRKFAYLGR  
LAHEVGWKYQAVTATLEEK RKEKAKIHYRKKKQ  
LMRLRKQ AEKNVEKKIDKYTEVLKTHGLLV

>sp|P18621|RL17\_HUMAN 60S ribosomal protein L17 OS=Homo sapiens GN=RPL17 PE=1 SV=3

MVRYSLDPENPTKSCKSRGSLRVHFKNTRETAQAIKGM  
HIRKATKYLDVTLQKQCVPF RRYNGVGRCQAQAKQ  
GWTQGRWPKKSAEFLHMLKNAESNAELKGLD  
VDSLVIEHIQVN KAPKMRRRTYRAHGRINPYMSSP  
CHIEMI L TEKEQIVPKPEEEVAQKKKISQKKLKKQKL  
MARE

>sp|Q9UNX3|RL26L\_HUMAN 60S ribosomal protein L26-like 1 OS=Homo sapiens GN=RPL26L1 PE=1 SV=1

MKFNPVFTSDRSKNRKRHFNAPSHVRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRG  
HYKGQQIGKVQVYRKKYVIYIERVQREKANGTTVHVGIHPSKVITRLKLDKDRKKILE  
RKAKSRQVGKEKGYKEELIEKMQE

>sp|P62888|RL30\_HUMAN 60S ribosomal protein L30 OS=Homo sapiens GN=RPL30 PE=1 SV=2  
MVAAKKTKKSLESINSRLQLVMKSGKYVLGYKQTLKMIRQGAKLVILANNCPALRKSEI  
EYYAMLAKTGVHHYSGNNIELGTACGKYRVCTLAIIDPGDSDIIRSMPEQTGEK

>sp|A6NKH3|RL37L\_HUMAN Putative 60S ribosomal protein L37a-like protein OS=Homo sapiens  
GN=RPL37AP8 PE=5 SV=2  
MAKCTKKVGGIVSKYRTHHGASLWKMVKEIEISQHTKYTCFSGKTKMKRRRAVKIRHCNS  
CMKTVAGSAWYNTTSAVMVKS AIRRLKELKDQ

>sp|P61927|RL37\_HUMAN 60S ribosomal protein L37 OS=Homo sapiens GN=RPL37 PE=1 SV=2  
MTKGTSSFGKRRNKTHTLCRRCGSKAYHLQKSTCGKCGYPAKRKRKYNWSAKAKRRNTTG  
TGRMRHLKIVYRRFRHGFREGTTPKPKRAA VAASSS

>sp|Q96EH5|RL39L\_HUMAN 60S ribosomal protein L39-like OS=Homo sapiens GN=RPL39L PE=1 SV=3  
MSSHKTFTIKRFLAKKQKQNRPIQWIQMKPGSKIRYNSKRRHWRRTKLGL

>sp|P62891|RL39\_HUMAN 60S ribosomal protein L39 OS=Homo sapiens GN=RPL39 PE=1 SV=2  
MSSHKTFRIKRFLAKKQKQNRPIQWIRMKTGKIRYNSKRRHWRRTKLGL

>sp|Q02878|RL6\_HUMAN 60S ribosomal protein L6 OS=Homo sapiens GN=RPL6 PE=1 SV=3  
MAGEKVEKPDTKKKPEAKKVDAGGKVKKGNLAKKPKKKGPHCSRNPVLVRGIGRYSRS  
AMYSRKAMYKRKYSAAKSKVEKKKKEKVLATVTKPVGGDKNGGTRVVKLKRMPPRYPTED  
VPRKLLSHGKKPFSQHVRLRASITPGTIL IILTGRHRGKR VFLKQLASGLLLVTGPLV  
LNRVPLRRTHQKFVIATSTKIDISNVKIPKHLTDAYFKKKLKRPRHQEGEIFDTEKEY  
EITEQRKIDQKAVDSQILPKIKAIPQLQGYLRSVFALTNGIYPHKL VF

>sp|P18124|RL7\_HUMAN 60S ribosomal protein L7 OS=Homo sapiens GN=RPL7 PE=1 SV=1  
MEGVEEKKKEVPAPETLKKRRNFAELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKE  
YRQMYRTEIRMARMARKAGNFYVPAEPKLAFVIRIRINGVSPKVRKVLQLRLRQIFNG  
TFVKLNKASINMLRIVEPYIAWGYPNLKSVNELIYKRGYKINKKRIALTDNALIARSLG  
KYGIICMEDLIHEIYTVGKRFEANNFLWPFKLSSPRGGMKKKTTHFVEGGDAGNREDQI  
NRLIRRMN

>sp|P47914|RL29\_HUMAN 60S ribosomal protein L29 OS=Homo sapiens GN=RPL29 PE=1 SV=2  
MAKSKNHTTHNQSRKWHRNGIKKPRSQRYESLKGVDPKFLRNMRFAKKHNKKGLKKMQAN  
NAKAMSARAEAIKALVKPEVKPKIPKGVSRKLDRLAYIAHPKLGKRARARIAKGLRLCR  
PKAKAKAKAKDQTKAQAAAPASVPAQAPKRTQAPT KASE

>sp|Q969Q0|RL36L\_HUMAN 60S ribosomal protein L36a-like OS=Homo sapiens GN=RPL36AL PE=1  
SV=3

MVNVPKTRRTFCCKCGKHQPHKVTQYKKGKDSLYAQGRRRYDRKQSGYGGQTKPIFRKKA  
KTTKKIVLRLCEVEPNCRSKRMLAIKRCKHFELGGDKRKGQVIQF

>sp|P39023|RL3\_HUMAN 60S ribosomal protein L3 OS=Homo sapiens GN=RPL3 PE=1 SV=2  
MSHRKFSAPRHGSLGFLPRKRSSRHGKVKSFPKDDPSKPVHLTAFLGYKAGMTHIVREV  
DRPGSKVNKKEVVEAVTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYK  
NWHKSKKKAFTKYCKKWQDEDGKKQLEKDFSSMKKYCQVIRVIAHTQMRLPLRQKKAHL  
MEIQVNGGTVAEKLDWARERLEQQVPVNQVFGQDEMIDVIGVTKGKGKGVTSRWHTKKL  
PRKTHRGLRKVACIGAWHPARVAFSARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK  
NNASTDYDLSKDSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLT LRKSLLVQTKRRAL

EKIDLKFIDTTSKFGHGRFQTMEEKKAFMGPLKKDRIAKEEGA

>sp|P46778|RL21\_HUMAN 60S ribosomal protein L21 OS=Homo sapiens GN=RPL21 PE=1 SV=2

MTNTKGKRRGTRYMFSRPFKHHGVVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGK  
TGRVYNVTQHAVGIVVNKQVKGKILAKRINVRIEHIKHSKSRDSFLKRVKENDQKKKEAK  
EKGTWVQLKRQPAPPREAHFVRTNGKEPELLEPIPYEFMA

>sp|P62750|RL23A\_HUMAN 60S ribosomal protein L23a OS=Homo sapiens GN=RPL23A PE=1 SV=1

MAPKAKKEAPAPPKAEAKAKALKAKKAVLKGVSHSHKKKIRTSPTRRPKTLRLRRQPKY  
PRKSAPRRNKLDHYAIIKFPLTTESAMKKIEDNNTLVFIVDVKANKHGIKQAVKKLYDID  
VAKVNTLIRPDGEKKAYVRLAPDYDALDVANKIGII

>sp|P46779|RL28\_HUMAN 60S ribosomal protein L28 OS=Homo sapiens GN=RPL28 PE=1 SV=3

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSFRYNGLIHRKTVGVPAADGKGV  
VVVIKRRSGQRKPATSYVRTTINKNARATLSSIRHMIRKNKYRDLMAAIRRASAILRS  
QKPVMVKRKRTRPTKSS

>sp|P46776|RL27A\_HUMAN 60S ribosomal protein L27a OS=Homo sapiens GN=RPL27A PE=1 SV=2

MPSRLRKTRKLRGHVSHGHGRIGKHKHPGGRGNAGGLHHHRINFDKYHPGYFGKVGMMKH  
YHLKRNQSFCTVNLDKLWTLVSEQTRVNAAKNKTGAAPIIDVVRSGYYKVLGKGKLPKQ  
PVIVKAKFFSRAEEKIKSVGGACVLVA

>sp|P18077|RL35A\_HUMAN 60S ribosomal protein L35a OS=Homo sapiens GN=RPL35A PE=1 SV=2

MSGRLWSKAIFAGYKRGLRNQREHTALLKIEGVYARDETEFYLGKRCAYVYKAKNNTVTP  
GGKPNKTRVIWGVTRAHGNMVRKFRSNLPAKAIGHRIRVMLYPSRI

>sp|P49207|RL34\_HUMAN 60S ribosomal protein L34 OS=Homo sapiens GN=RPL34 PE=1 SV=3

MVQRLTYRRRLSYNTASNKTRLSRTPGNRIVLYTKKVGKAPKSACGVCPGRLRGVRAVR  
PKVLMRLSKTKKHVSRAYGSGMACKVRDRIKRAFLIEEQKIVVKVLKAQAQSQKAK

>sp|P61513|RL37A\_HUMAN 60S ribosomal protein L37a OS=Homo sapiens GN=RPL37A PE=1 SV=2

MAKRTKKVGIVGKYTRYGASLRKMVKKIEISQHAKYTCFSGKTKMKRRRAVGIIWHCGSC  
MKTAVAGGAWTYNTTSAVTVKSAIRRLKELKDQ

>sp|Q9NSD7|RL3R1\_HUMAN Relaxin-3 receptor 1 OS=Homo sapiens GN=RXFP3 PE=1 SV=1

MQMADAATIATMNKAAGGDKLAELFSLVPDLLEAANTSGNASLQLPDLWWELGLELPDGA  
PPGHPGSGGAESADTEARVRILISVVYVVCALGLAGNLLVLYLMKSMQGWRKSSINLF  
VTNLALTDFQFVLTLPFWAVENALDFKWPFGKAMCKIVSMVTSMNMYASVFFLTAMSVTR  
YHSVASALKSHRTRGHGRGDCCGRSLGDSCCFSAKALCVWIWALAALASLPSAIFSTTVK  
VMGEELCLVRFPDKLLGRDRQFWLGLYHSQKVLGFLPLGIIILCYLLLVRFIADRRAA  
GTKGGAAGGRPTGASARRLSKVTKSVTIVLSFFLCWLPNQALTTWSILIKFNAVPPFS  
QEYFLCQVYAFVSVCLAHSNSCLNPVLYCLVRREFRKALKSLLWRIASPSITSMRPFTA  
TTKPEHEDQGLQAPAPPHAAAEPDLLYPPGVVVYSGGRYDLLPSSSAY

>sp|P62424|RL7A\_HUMAN 60S ribosomal protein L7a OS=Homo sapiens GN=RPL7A PE=1 SV=2

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRDLTRFVKWPRY  
IRLQRQRAILYKRLKVPPAINQFTQALDRQTATQLLKLAKHYRPETKQEKQRLARA  
KAAGKGDVPTKRPPVLRAGVNTVTTLVENKKAQLVVIADVDPIELVVFLPALCRKMGVP  
YCIKKGARLGRLVHRKTCTTVAFTQVNSEDKGALAKLVEAIRTNYNDRYDEIRRHWGGN  
VLGPKSVARIAKLEKAKAKELATKLG

>sp|P62829|RL23\_HUMAN 60S ribosomal protein L23 OS=Homo sapiens GN=RPL23 PE=1 SV=1

MSKRGSGSSGAKFRISLGLPVGAVINCADNTGAKNLYIISVKGIGRLNRLPAAGVGDM  
VMATVKKGKPELRKKVHPAVVIRQRKSYRRKDGVFLYFEDNAGVIVNNKGEMKGSAITGP

VAKECADLWPRIASNAGSIA

>sp|Q6P5R6|RL22L\_HUMAN 60S ribosomal protein L22-like 1 OS=Homo sapiens GN=RPL22L1 PE=1 SV=2

MAPQKDRKPKRSTWRFNLDLTHPVEDGIFDSGNFEQFLREKVKVNGKTGNLGNVVHIERF  
KNKITVVSEKQFSKRYLKYLTKKYLKKNLRLDWLRVVASDKETELRYFQISQDEDESES  
ED

>sp|P61353|RL27\_HUMAN 60S ribosomal protein L27 OS=Homo sapiens GN=RPL27 PE=1 SV=2

MKGFMKPGKVVLVLAGRYSGRKAVIVKNIDGTSRDPYSHALVAGIDRYPRKVTAAMGKK  
KIAKRSKIKSFKVYNYNHLMPTRYSDIPLDKTVVNKDVFRDPALKRKARREAKVKFEE  
RYKTGKNKWFFQKLRF

>sp|P62899|RL31\_HUMAN 60S ribosomal protein L31 OS=Homo sapiens GN=RPL31 PE=1 SV=1

MAPAKKGGEKKKGRSAINVVTTREYTNIIHKRIHGVGFKKRAPRALKEIRKFAMKEMGTP  
DVRIDTRLNKAVWAKGIRNVPYRIRVRLSRKRNEDEDSPNKLYTLVTYVPVTTFKNLQTV  
NVDEN

>sp|P84098|RL19\_HUMAN 60S ribosomal protein L19 OS=Homo sapiens GN=RPL19 PE=1 SV=1

MSMLRLQKRLASSVLRCGKKKVLDPNETNEIANANSRQQIRKLIKDGLIIRKPVTVHSR  
ARCRKNTLARRKGRHMGIGKRGTANARMPEKVTWMRRMRILRLLRRYRESKKIDRHY  
HSLYLKVGKGVFNKRILMEHIIHKLKADKARKKLLADQAEARRSKTKEARKRREERLQAK  
KEEIIKTLSEEETKK

>sp|P61254|RL26\_HUMAN 60S ribosomal protein L26 OS=Homo sapiens GN=RPL26 PE=1 SV=1

MKFNPFVTSRDKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRG  
HYKGQQIGKVQVYRKKYVIYIERVQREKANGTTVHVGIIHPSKVITRLKLDKDRKKILE  
RKAKSRQVGKEKGKYKEETIEKMQE

>sp|P62910|RL32\_HUMAN 60S ribosomal protein L32 OS=Homo sapiens GN=RPL32 PE=1 SV=2

MAALRPLVKPKIVKKRTKKFIRHQSDRYVKIKRNWRKPRGIDNRVRRRFKGQILMPNIGY  
GSNKTKHMLPSGFRKFLVHNVELEVLLMCNKSYSYCAEIAHNVSSKNRKAIVERAAQLAI  
RVTNPNARLRSEENE

>sp|P32969|RL9\_HUMAN 60S ribosomal protein L9 OS=Homo sapiens GN=RPL9 PE=1 SV=1

MKTILSNQTVDIPENVDTLKGRTVIVKGPRGTLRRDFNHINVELSLLGKKKKRLRVDKW  
WGNRKELATVRTICSHVQNMIGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGE  
KYIRRVMRPGVACSVSQAQKDELILEGNDIELVSNSAALIQQATTVKNKDIRKFLDGIY  
VSEKGTVQQADE

>sp|Q9NXI6|RN186\_HUMAN RING finger protein 186 OS=Homo sapiens GN=RNF186 PE=2 SV=1

MACTKTLQQSQPISAGATTTTAVAPAGGHSGSTECLECLVCREPYSCPRLPKLLACQH  
AFCAICLKLLLCVQDNTWSITCPLCRKVTAVPGGLICSLRDHEAVVGQLAQPCTEVSLCP  
QGLVDPADLAAGHPSLVGEDGQDEVSAHVAAARRLAAHLLLLALLIILIGPFIYPGVLRW  
VLTFIIALALLMSTLFCCLPSTRGSCWPSSRTLFCREQKHSHISSIA

>sp|Q9NV58|RN19A\_HUMAN E3 ubiquitin-protein ligase RNF19A OS=Homo sapiens GN=RNF19A PE=1 SV=3

MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDRDLQSSASSVSLPSVKKAP  
KKRRISIGSLFRRKKDNKRKSRELNGVDGIASIESIHSEMCTDKNSIFSTNTSSDNGLT  
SISKQIGDFIECPLCLRHSKDRFPDITCHHRSCVDCLRQYLRIEISESRVNISCPECT  
ERFNPHDIRLILSDDLMEKYEEFMLRRWLADPDCRWCPAPDCGYAVIAFGCASC PKLT  
CGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTIRSSSISYSQESGAAADDIKP

CPRCAAYIIKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKK  
ILWQLGTLVGAPVGIALIAGIAIPAMIIIGIPVYVGRKIHNRYEKDVSKHKRNLA IAGGV  
TLSVIVSPVVAAVTVGIGVPIMLAYVYGVVPISLCRSGGCGVSAGNGKGVRIEFDDENDI  
NVGGTNTAVDTTSVAEARHNPSIGEGSVGGLTGSLASGSHMDRIGAIRDNLSETASTMA  
LAGASITGSLSGSAMVNCFNRLLEVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSI  
LNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSHAGGSSSGLPEGKSSA  
TKWSKEATAGKSKSGKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSV  
ADSHSSHFEFSCSDLESMKTSCSHGSSDYHTRFATVNILPEVENDRLNSPHQCSISVV  
TQTASCSEVSQNLHIAEEHGNNGIKPNVDLYFGDALKETNNNHSHQTMELKVAIQTEI

>sp|Q63HN8|RN213\_HUMAN E3 ubiquitin-protein ligase RNF213 OS=Homo sapiens GN=RNF213 PE=1  
SV=3

MECPSCQHVSKEETPKFCSQCGERLPPAAPADSENNNSTMASASEGEMECCQELKEEGG  
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HYTRDLGHDRVLVEGIVCISKHLDKYIPYKYVIYNGESFEYEFYKHQQKKGEYVNRCL  
FIKSSLLGSGDWHQYDIDIVYMKPHGR LQKVMNHITDGPRKDLVKGKQIAAALMLDSTFSI  
LQTDWTINLNSFFTQFEQFCFVLQQPMIYEGQAQLWTDLYREKEVKRYLWQHLKKHVVP  
LPDGKSTDFLPVDCPVRSKLKTGLIVLFVVEKIELLLEGLDWLCHLLTSDASSPDEFHR  
DLSHILGIPQSWRLYLNLQCRCMDTRTYTWLGALPVLHCCMELAPRHKDAWRQPEDTWA  
ALEGLSFSPFREQLDTSLLQFMREKQHLLSIDEPLFRSWFSLLPLSHLVMYMENFIEH  
LGRFPAHILDCLSGIYYRLPGLEQVLNTQDVQDVQNVQNIEMLLRLLDTYRDKIP EEAL  
SPSYLTVCLKLHEAICSSTKLLKFYELPALSAEIVCRMIRLLSLVDSAGQRDETGNNSVQ  
TVFQGTLAATKRWLREVFTKNMLTSSGASFTYVKEIEVWRRLVEIQFPAEHGWKESLLGD  
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DLRKF GIVLSAVITKSWPRTADNFNDILKHLTLADV KHVFR LCGTDEKILANVTEDAKR  
LIAVADSVLTKVVGDL LSGTILVGQLELIIKHKNQFLDIWQLREKSLSPQDEQCAVEEAL  
DWRREELLLLKKEKRCVDSLLKMGCVKHLIQVDFGLAVRHSQDLSSKRLNDTVTVRLS  
TSSNSQRATHYHLSSQVQEMAGKIDLLRDSHIFQLFWREAAEPLSEPKEDQEAELLSEP  
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LKIMCTVDHQDQRDWIKDRVEQIKEYHHLHQAVHAAKVILQVKESLGLNGDFSVLNTLLN  
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REDYQLVMVCDGDWEHCYLP SAFSQHKVFVTPQAPLEAIQAYLAGHYRVPKQTL SAAAVF

NDRLCVGIVASERAGVGKSLYVKRLHDKMKMQLNVKNVPLKTIRLIDPQVDESRVLGALL  
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IAACNPYRKHSEEMICRLESAGLGYRVSMEETADRLGSIPLRQLVYRVHALPPSLIPLVW  
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TVCKRQDKEFFGLRDYYSLIKMFVAAAKASNRKPSQDIAQAVLRNFSGKDDIQALDIFL  
ANLPEAKCSEEVSPMQLIKQNI FGPSQKVPGGEQEDAESRYLLVLTKNYVALQILQQTFF  
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VHLGGQKYVDLGLGTHR VKCRVHPNFR LIVIEEKDVVYKHFP IPLINRLEKHYLDINTVL  
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ALTEELHQKVSEEAKSILLNCATPD AVVRLSAYSLGGFAAEWLSQEYFHRQRHNSFADFL  
QAHLHTADLERHAIFTEIT TFSRLLTSHDCEILESEVTGRAPKPTLLWLQQFDTEYSFLK  
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SRVGRGTAYVGFHGG LWQSVHIDDLRRSTLMVSDVTRLQHVTISQLFAPGDLPELGLEHR  
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QSAVGMLRDQNESCTRNMRRV LLLGLLNEDDACHASFLRVSKMRLSVFLKKQEE SQFHP  
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EGRFLKAYSPASRGREPANEASVEYLQEVARIRLCLDRAADFLSEPEGGPEMAKEKQCYL  
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PGQMDRYLVYGDEYKALRDAVAKAVLECKPLGIKTALKACKTPQSQQSAYFLLTLFREVA  
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GTVTEMAIHAAVLLCGQNELLEPLKNLAFSPATMAHAF LPTMPEDLLAQARRWKGLERV  
HWYTCPNGHPCSVGECGRPMEQSI CIDCHAPIGGIDHKPRDGFHLVKDKADRTQTGHV LG  
NPQRRDVVTCDRGLPPVV FLLIRLLTHLALLLGASQSSQALINI IKPPVRDPKGFLQQHI

LKDLEQLAKMLGHSADETIGVVHLVLRRLLEQEQHQLSSRRLNFDTELSTKEMRNNWEKE  
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WSCRKRITVEYLQHIVEQKNGKERVPIILWHFLQKEAELRLVKFLPEILALQRDLVKQFQN  
VQQVEYSSIRGFLSKHSSDGLRQLLHNRTVFLSTWNKLRRSLETNGEINLPKDYCSTDL  
DLDTFEIILLPRRRGLGCATALVSYLIRLHNEIVYAVEKLSKENNSYSVDAAEVELHV  
ISYEVRDLTPLILSNCQYQVEEGRETQVEFDLEKIQRQIVSRFLQGKPRLSLKGIPTLV  
YRHDWNYEHLFMDIKNKMAQDSLPSVISASISGQLQSYSDACEVLSVVEVTLGFLSTAGG  
DPNMQLNVYTQDILQMGDQTIHVLKALNRCQLKHTIALWQFLSAHKSEQLRLHKEPFGE  
ISSRYKADLSPENAKLLSTFLNQTGLDAFLLELHEMIILKLKNPQTQTEERFRPQWSLRD  
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>sp|Q9NWF9|RN216\_HUMAN E3 ubiquitin-protein ligase RNF216 OS=Homo sapiens GN=RNF216 PE=1 SV=3

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DDVILTEDDSEDDYGEFLDLGPPGISEFTKPSGQTEREPKPGPSHNQAANDIVNPRSEQK  
VIIIEEGSLLYTESDPLETQNQSSDSETELLSNLGEAALADDQAIEEDCWLDHPYFQS  
LNQQPREITNQVVPQERQPEAELGRLLFQHEFPGPAFPRPEPQQGGISGPSSPQPAHPLG  
EFEDQQLASDDEEPGPAFPMQESQEPNLENIWGQEAEEVDQELVELLVKETEARFPDVAN  
GFIEEIIHFNKYDLNVLNCFLENPDYPKREDRIIINPSSLLASQDETKLPKIDFFDY  
SKLTPLDQRCFIQAADLLMADFKVLSSQDIKWALHELKGHYAITRKALSDAIKKWQELSP  
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FYEQKIKEMAEHDFLLALQMNEEQYQKDGQLIECRCCYGEFPFEELTQCADAHLFCKEC  
LIRYAQEAVFGSGKLELSCMEGSCTCSFPTSELEKVLPTILYKYERKAEEEVAAAYAD  
ELVRPCSCSFPALLDSVDKRFSCPNPHCRKETCRKCQGLWKEHNGLTCEELAEKDDIKYR  
TSIEEKMTAARIRKCHKCGTGLIKSEGCNRMSCRCGAQMCYLCRVISINGYDHFQHPRSP  
GAPCQECSRCSLWTDPTEDDEKLIEEIQKEAEQKRNKNGENTFKRIGPPLEKPVKEVQR  
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>sp|Q8TC41|RN217\_HUMAN Probable E3 ubiquitin-protein ligase RNF217 OS=Homo sapiens GN=RNF217 PE=2 SV=4

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CADTSAPEPARSLGPPGWSKRAPAQAGLALTGPLNPQTLPLQLELEEEEEEEAGDRKEG  
GDEQQEAPPGEELPRTRVGAADGLVDVLGQRRPSLAKRQVFCSVYCVESDLPEAPASE  
QLSPPASPPGAPPVLNPPSTRSSFPSRLSLPTDSLSPDGGGIELEFYLAPEPFMPSSL  
GAPPYSGLGGVGDPYVPLMVMCRVCLEDKPIKPLPCKKAVCEECLKVYLSAQVQLGQV  
EIKCPITECFEFLEETTVVYNLTHEDSIKYKFLELGRIDSSTKPCPQCKHFTTFKKKGH  
IPTPSRSESKYKIQCPTCQFVWCFKCHSPWHEGVNCKEYKKGDKLLRHWASEIEHGQRNA  
QKCPKCKIHIQRTEGCDHMTCSQCNTNFCYRCGERYRQLRFFGDHTSNLSIFGCKYRYLP  
ERPHLRRLVRGSVCAGKLFIAPLIMVLGLALGAIAVVIGLVFPFIYCLCKKQRKRSRTGM  
HW

>sp|Q86VV4|RNB3L\_HUMAN Ran-binding protein 3-like OS=Homo sapiens GN=RANBP3L PE=2 SV=2

MTTIPRKGSSHLPGSLHTCKLKLQEDRRQKEKS VIAQPIFVFEKGEQTFKRPAEDTLYEA  
AEPECNGFPTKRVRSSSFTFHTDSQSQGVKNNVFMTSALVQSSVDIKSAEQGPVKHSK  
HVIRPAILQLPQARCAKVRKTFGHKALESCKTKEKTNNKISEGNSYLLSENLSRARISV  
QLSTNQDFLGATSVGCQPNEKCSFKSCSSNFVFGENMVERVLGTQKLTPQPLEND SYAK

EKPFKSIPKFPVNFSSRTDSIKNTSLIESAAAFSSQPSRKCLLEKIDVITGEETEHNVL  
KINCKLFI FNKTTQSWIERGRGTLRLNDTASTDCGTLQSRLIMRNQGSRLILNSKLWAQ  
MKIQRANHKNVRITATDLEDYSIKIFLIQASAQDTAYLYAAIHRLVALQSFNKQRDVNQ  
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>sp|Q96EP0|RNF31\_HUMAN E3 ubiquitin-protein ligase RNF31 OS=Homo sapiens GN=RNF31 PE=1 SV=1

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AHGEPRNYLNTLSTALNILEKYGRNLLSPQRPRYWRGVKFNNPVFRSTVDAVQGGRDVLR  
LYGYTEEQPDGLSFPEGQEEPDEHQVATVTLEVLLLRTLSLLLQNTHPRQQALEQLLED  
KVEDDMLQLSEFDPLREIAPGPLTPSPVPGSTPGPCFLCGSAPGTLHCPSCQALCPAC  
DHLFHGHPSRAHHLRQTLPGVLQGTHLSPSLPASAQPRPQSTSLALGDSSLSSPNPASA  
HLPWHCAACAMLNWPVAVLCVACDRPRGCKGLGLGTEGPQGTGGLEPDLARGRWACQSCT  
FENEAALVCSICERPRLAQPPLVVDSDAGICLQPLQQGDALLASAQSQVWYCIHCTF  
CNSSPGWVCVMCNRTSSPIPAQHAPRPYASSLEKGPCKGPPRRLSAPLPSSCGDPEKQR  
QDKMREEGLQLVSMIREGEAAGACPEEIFSALQYSGTEVPLQWLRSELPYVLEMVAELAG  
QQDPGLGAFSCQEARRAWLDRHGNLDEAVEECVTRRRRKVQELQSLGFGPEEGSLQALFQ  
HGGDVSRALTELQRQLEPFRQRLWDSGPEPTPSWDGPDQSLVRRLLAVYALPSWGRAE  
LALSLLQETPRNYELGDVVEAVRHSQDRAFLRRLLAQECVCGWALPHNRMQALTSCECT  
ICPDCFRQHFTIALKEKHI TDMVCPACGRPDLTDDTQLLSYFSTLDIQLRESLEPDAYAL  
FHKKLTGVLMRDPKFLWCAQCSFGFIYEREQLEATCPQCHQTFVCRCKRQWEEQHRRGS  
CEDFQNWKRMDPEYQAQGLAMYLQENGIDCPKCKFSYALARGGCMHFHCTQCRHQFCSG  
CYNFYAKNKCPEPNCRVKSLHGHHPRDCLFYLRDWTALRLQKLLQDNNVMFNTEPPAG  
ARAVPGGGCRVIEQKEVPNGLRDEACGKETPAGYAGLCQAHYKEYLVSLINAHSLDPATL  
YEVEELETATERYLHVRPQPLAGEDPPAYQARLLQKLTEEVLPGQSIPRRRK

>sp|Q969K3|RNF34\_HUMAN E3 ubiquitin-protein ligase RNF34 OS=Homo sapiens GN=RNF34 PE=1 SV=1

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VCKACGLSFSVFRKKHVCCDKKDFCSVCSVLQENLRRCSTCHLLQETAQRPQLMRLKV  
KDRLQYLILRNIPIDTCREKEDLVDLVLCHHGLGSEDDMDTSSLNSSRSQTSSFFTRSFF  
SNYTAPSATMSSFQGELMDGDQTSRSGVPAQVQSEITSANTEDDDDDDEDDDEEENAE  
DRNPGLSKERVASLSDLSSLDVEGMSVRQLKEILARNFVNYSGCCCKWELVEKVNRLY  
KENEENQKSYGERLQLQDEEDDSLRCICMDAVIDCVLLECGHMTCTKCGKRMSECPICR  
QYVVRVAVHVKFS

>sp|Q96EX2|RNFT2\_HUMAN RING finger and transmembrane domain-containing protein 2 OS=Homo sapiens GN=RNFT2 PE=2 SV=2

MWLFTVNQVLRKMQRHSSNTDNIPERNRSQALSSEASVDEGGVFESLKAEASPPALF  
SGLSGSLPTSSFPSSLVLGSSAGGQVFIQMPASREEGGGRGEGGAYHHRQPHHHFHHGG  
HRGGSLLQHVGGDHRGHSEEGDEQPGTPAPALSELKAVICWLQKGLPFILILLAKLCFQ  
HKLGIIVCIGMASTFAYANSTLREQVSLKEKRSVLVILWILAFLAGNTLYVLYTFSSQQL  
YNSLIFLKPNEMLDFFDLWIVGIADFVLKYITIALKCLIVALPKIILAVKSKGKFYLV  
IEELSQLFRSLVPIQLWYKYIMGDDSSNSYFLGGVLIVLYSLCKSFDICGRVGGVRKALK  
LLCTSQNYGVRATGQQCTEAGDICAICQAEFREPLILLQHVFCCECLCLWLDRERTCPL  
CRSVAVDTLRCWKDGATSAHFQVY

>sp|Q5TBB1|RNH2B\_HUMAN Ribonuclease H2 subunit B OS=Homo sapiens GN=RNASEH2B PE=1 SV=1



MAAGVDCGDGVGARQHVFLVSEYLDASKKMKNGLMFVKLVNPCSGEGAIYLFNMCLQQL  
FEVKVFKEKHHSWFINQSVQSGGLLHFATPVDPLFLLHYLIKADKEGKFQPLDQVVVDN  
VFPNCILLKLPGLEKLLHHVTEEKGNPEIDNKKYKYKSEKTLKWLEKKVNQTVAAALKT  
NNNVSSRVQSTAFFSGDQASTDKEEDYIRYAHGLISDYIPKELSDDL SKYLKLPEPSAS  
LPNPPSKKIKLSDEPVEAKEDYTKFNTKDLKTEKKNSKMTAAQKALAKVDKSGMKSIDTF  
FGVKNKKKIGKV

>sp|Q9HCK4|ROBO2\_HUMAN Roundabout homolog 2 OS=Homo sapiens GN=ROBO2 PE=1 SV=2

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TIEWYKDGERVETDKDDPRSHRMLLPSSGLFRLRVHGRRSKPDGSSYCVARNYLGEAV  
SRNASLEVALLRDDFRQNPTDVVVAAGEPAILECQPPRGHPEPTIYWKDKVRIDDKEER  
ISIRGGKLMISNTRKSDAGMYTCVGTNMVGERSDPAELTVFERPTFLRRPINQVVLEEE  
AVEFRCQVQGDQPQTVRWKDDADLPRGRYDIKDDYTLRIKTMSTDEGTYMCIAENRVG  
KMEASATLTVRAPPQFVVRPRDQIVAQGRVTTFPCETKGNPQPAVFWQKEGSQNLLFPNQ  
PQQPNRSRCSVSPTGDLTITNIQRSDAGYYICQALT VAGSILAKAQLVTDVLTDRPPPII  
LQGPANQTLAVDGTALLKCKATGDPLPVISWLKEGFTFGRDPRATIQEQGTQIKNLRI  
SDTGTYTCTVATSSSGETSWSAVLDVTESGATISKNYDLSLPGPPSKPQVTDVTKNSVTL  
SWQPGTPGTLPASAYII EAFSQSVSNWQTVANHVKTTLTYVRGLRPNTIYLFMVRINP  
QGLSDPSPMSDPVRTQDISPPAQGVDRHQVQKELGDVLRHNPVLTPTTVQVTWTVDR  
QPQFIQGYRVMYRQTSGLQATSSWQNLDKVPTERS AVLNLKKGVTYEIKVRPYFNEFQ  
GMDSESKTVRTTEEAPSAPPQSVTVLTVGSYNSTSISSWDPPPPDHQNGIIQEYKIWCL  
GNETRFHINKTVDAAIRSVIIIGGLFPGIQYRVEVAASTSAGVGKSEPQPIIIGRRNEVV  
ITENNSITEQITDVVKQPAFIAGIGGACWVILMGFSIWLYWRRKKRKGLSNYAVTFQRG  
DGGLMSNGSRPGLLNAGDPSYPWLADSWPATSLPVNNSNSGPNEIGNFGRGDVLPVPVGG  
GDKTATMLSDGAIYSSIDFTTKTSYNSSSQITQATPYATTQILHSNSIHELAVDLPDPQW  
KSSIQKTDLMGFGYSLPDQNKGNNGGKGGKKKKNKNSKPKKNGSTWANVPLPPPPVQ  
PLPGTELEHYAVEQQENGYDSDSWCPPLPVQTYLHQGLEDELEEDDRVPTPPVRGVASS  
PAISFGQQSTATLTSPREEMQMLQAHDELTRAYQFDIAKQTWHIQSNNQPPQPPVPP  
LGYVSGALISDLETVDADDDADDEEEALEIPRPLRALDQTPGSSMDNLDSSVTGKAFTSS  
QRPRPTSPFSTDSNTSAAALSQSQRPRPTKKHKGGRMDQQPALPHRREGMTDEEALVPYSK  
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>sp|Q8WZ75|ROBO4\_HUMAN Roundabout homolog 4 OS=Homo sapiens GN=ROBO4 PE=1 SV=1

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GTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKDGKPLAL  
QPGRHTVSGGSLLMARAESDEGTYMCVATNSAGHRESRAARVSIQEPQDYTEPVELLAV  
RIQLENTLLNPDPAEGPKPRPAVWLSWKVSGPAAPAQSYTALFRTQTAPGGQGAPWAE  
LLAGWQSAELGGLHWGQDYEFKVRPSSGRARGPDSNVLLRLPEKVPSAPPQEVTLKPGN  
GTVFVSWVPPPAENHNGIIRGYQVWSLGNTSLPPANWTVVGEQTQLEIATHMPGSYCVQV  
AAVTGAGAGEPSRPVCLLLEQAMERATQEPSEHGPTLEQLRATLKRPEVIATCGVALWL  
LLLGTAVCIHRRRRARVHLGPGLYRYTSEDAILKHRMDHSDSQWLADTWRTSGSRDLSS  
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VPAVRRLPQLAQLSSPCSSSDSLCSRRGLSSPRLSLAPAEAWKAKKKQELQHANSPLL  
RGSHSLELRACELGNRGSKNLSQSPGAVPQALVAWRALGPKLLSSSNELVTRHLPPAPLF  
PHETPPTQSQQTPPPVAPQAPSSILLPAAPIPILSPCSPSPQASSLSGPSPASSRLSSS

SLSSLGEDQDSVLTPEEVALCLELSEGEETPRNSVSPMPRAPSPPTTYGYISVPTASEFT  
DMGRTGGGVGPKGGVLLCPPRPCLTPTPSEGLANGWGSASEDNAASARASLVSSSDGSF  
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LEDMEVSHTQRLGRGMPPWPPDSQISSQRSQLHCRMPKAGASPV DYS

>sp|Q9GZN7|ROGDI\_HUMAN Protein rogdi homolog OS=Homo sapiens GN=ROGDI PE=1 SV=1

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FILGSCGTDQVKGVLTQLGDALSQADVNLKMPRNNQLLHFAFREDKQWKLQQIQDARNHV  
SQAIYLLTSRDQSYQFKTGAEVLKMDAVMLQLTRARNRLTTPATLTLPEIAASGLTRMF  
APALPSDLLNVVYINLNKLCITVYQLHALQPNSTKNFRPAGGAVLHSPGAMFEWGSQRLE  
VSHVHKVECVIPWLN DALVYFTVSLQLCQQLKDKISVFSSYSYRPF

>sp|Q03395|ROM1\_HUMAN Rod outer segment membrane protein 1 OS=Homo sapiens GN=ROM1 PE=1 SV=2

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VLPQAALAAGAVALTGLVGVGASRASLNAALYPPWRGVLPGLLVAGTAGGGGLLVVGLG  
LALALPGSLDEALEEGLVTALAHYKDTEVPGHCQAKRLVDELQLRYHCCGRHGKDWFGV  
QWVSSRYLDPGDRDVADRIQSNVEGLYLTGVPFSCCNPHSPRPCLQNRLSDSYAHP LFD  
PRQPNQNLWAQGCHEV LLEHLQDLAGTLGSM LAVTFLQLALVLLGLRYLQTALEGLGGVI  
DAGGETQG YLFPSGLKDM LKTAWLQGGVACRPAPEEAPPGEAPPKEDLSEA

>sp|Q96C74|ROP1L\_HUMAN Ropporin-1-like protein OS=Homo sapiens GN=ROPN1L PE=1 SV=2

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MEMPTATQKTDTGLTQGLLKVLHKQCHHKRYVELTDLEQKWKNLCLPKEKFKALLQLDPC  
ENKIKWINFLALGCSMLGGSLNTALKHLCEILTDDPEGPARIPFKTFSYVRYLARLDS  
DVSPLETESYLASLKENIDARKNGMIGLS DFFFFPKRKLLESIENSEDVGH

>sp|P08922|ROS1\_HUMAN Proto-oncogene tyrosine-protein kinase ROS OS=Homo sapiens GN=ROS1 PE=1 SV=3

MKNIYCLIPKLVNFATLGCLWISVVQCTVLNSCLKSCVTNLGQQLDLGTPHNLSEPCIQG  
CHFWSVDQKNCALKCRESCVEGCSAEGAYEEEVLENADLPTAPFASSIGSHNMTLRWK  
SANFSGVKYIIQWKYAQLLGSWYTKTVSRPSYVVKPLHPFTEYIFRVVWIFTAQLQLYS  
PPSPSYRTHPHGVETAPLIRNIESSPDTEVSWDPPQFPGGPILGYNLRLISKNQKLD  
AGTQRTSFQFYSTLPNTIYRFSIAAVNEVGEGPEAESSITSSSAVQQEEQWFLSRKTS  
LRKRSLKHLVDEAHCLRLDAIYHNITGISVDVHQQIVYFSEGTLIWAKKAANMSDVSDLR  
IFYRGSGLISSISIDWLYQRM YFIMDELVCVCDLENC SNIEEITPPSISAPQKIVADSYN  
GYVFYLLRDGIYRADLPVPSGRCAEAVRIVESCTLKDFAIKPQAKRIYFNDAQVFMST  
FLDGSASHLILPRIPFADVKS FACENND FLVTDGK VIFQQDALSFNEFIVGCDLSHIEEF  
GFGNLVIFGSSSQLHPLPGRPQELSVLFGSHQALVQWKPPALAI GANVILISDIIELFEL  
GPSAWQNWTYEVKVSTQDPPEVTHIFLNI SGTMLNVPELQSAMKYKVSVRASSPKRPGPW  
SEPSVGTTLPVASEPPFIMAVKEDGLWSKPLNSFGPGEF LSSDIGNVSDMDWYNNSLYYS  
DTKGDVFVWLLNGTDISENYHLPSIAGAGALAFEWLGHFLYWAGKTYVIQRQSVLTGHTD  
IVTHVKLLVNDMVDSVGGYLYWTTLYSVESTRLNGESSLVLTQTPWFSGKKVIALTDL  
SDGLLYWL VQDSQC IHL YTA VLRGQSTGDTTITEFAAWSTSEISQNALMYYSGR LFWING  
FRIITTQEIGKQTSVSVLEPARFNQFTIIQTS LKPLPGNFSFTP KVIPDSVQESSFRIEG  
NASSFQILWNGPPAVDWGVVFYSVEFSAHSKFLASEQHSLPVFTVEGLEPYALFNLSVTP  
YTYWGKPKTSLSLRAPETVPSAPENPRIFILPSGKCCNKNEVVVEFRWNKPKHENG VLT  
KFEIFYNISNQSITNKTCDWI AVNVTSPVMSFQLEGMSPRCFIAFQVRAFTSKGPGPYA

DVVKSTTSEINPFPHLITLLGNKIVFLDMDQNQVWTFSAERVISAVCYTADNEMGYAE  
GDSLFLHLHNRSSSELFQDSLVDITVITIDWISRHLVFALKESQNGMQVFDVDLEHKV  
KYPREVKIHNRNSTIISFSVYPLLSRLYWTEVSNFGYQMFYYSIISHTLHRILQPTATNQ  
QNKRNQCSCNVTEFELSGAMAIIDTSNLEKPLIYFAKAQEIWAMDLEGCCWRVITVPAML  
AGKTLVSLTVDGDLIYWIITAKDSTQIYQAKKGNGAIVSQVKALRSRHILAYSSVMQFPF  
DKAFLSLASDTVEPTILNATNTSLTIRLPLAKTNLTWYGITSPTPTYLVVYAEVNRKNS  
SDLKYRILEFQDSIALIEDLQPFSTYMIQIAVKNYSDPLEHLPPGKEIWGKTKNGVPEA  
VQLINTTVRSDSLIIISWRESHKPNGPKESVRYQLAISHLALIPETPLRQSEFPNGRLTL  
LVTRLSGGNIYVLKVLACHSEEMWCTESHPTVEMFNTPEKPYSLVPENTSLQFNWKAPL  
NVNLIRFWVELQWKYNEFYHVKTSCSQGPAYVCNITNLQPYTSYNVRVVVYKTGENST  
SLPESFKTKAGVPNKPPIPCLLEGSKNSIQWEKAEDNGCRITYYILEIRKSTSNNLQNQN  
LRWKMTFNGSCSSVCTWKSNNKLGIFQFRVVAANNLGFGEYSGISENIILVGDDFWIPET  
SFILTIIVGIFLVVTIPLTFVWHRLKNQKSAKEGVTVLINEDKELAE LRGLAAGVGLAN  
ACYAIHTLPTQEEIENLPAFPREKLTLRLLLGSGAFGEVYEGTAVDILGVSGEIKVAVK  
TLKKGSTDQEKIEFLKEAHLMSKFNHPNILKQLGVCLLNEPQYIILELMEGGDLLTYLRK  
ARMATFYGPLLTLVDLVDLCVDISKGCVYLERMHFIHRDLAARNCLSVKDYTSPIRVKI  
GDFGLARDIYKNDYYRKRGEGLLPVRWMAPESLMDGIFTTQSDVWSFGILIWEILTLGHQ  
PYPAHSNLDVLNYYQTGGRLPPRNCDDLNLMTCWAQEPDQRPTFHRIQDQLQLFRN  
FFLNSIYKSRDEANNSGVINESFEGEDGDVICLNSDDIMPVALMETKNREGLNYMVLATE  
CGQGEEKSEGPLGSQESESCGLRKEEKEPHADKDFCQEKQVAYCPSGKPEGLNYACLTHS  
GYGDGSD

>sp|Q9GZM3|RPB1B\_HUMAN DNA-directed RNA polymerase II subunit RPB11-b1 OS=Homo sapiens  
GN=POLR2J2 PE=1 SV=2

MNAPPAFESFLLFEGEKITINKDTKVPKACLTINKEDHTLGNIKSQLLKDPQVLFAGY  
KVPHPLEHKIIIRVQTTDPDYSQEAFTNAITDLISELSLEERFRTCLLPLRLLP

>sp|Q8TCC3|RM30\_HUMAN 39S ribosomal protein L30, mitochondrial OS=Homo sapiens GN=MRPL30  
PE=1 SV=1

MAGILRLVVQWPPGRLQTVTKGVESLICTDWIRHKFTRSRIPEKVFQASPEDHEKYGGDP  
QNP HKLHIVTRIKSTRRRPYWEKDIIKMLGLEKAHTPQVHKNI PSVNAKLKVVKHLIRIK  
PLKL PQGLPAEENMSNTCLKSTGELVVQWHLKPVEQKAHES

>sp|Q9BZE1|RM37\_HUMAN 39S ribosomal protein L37, mitochondrial OS=Homo sapiens GN=MRPL37  
PE=1 SV=2

MALASGPARRALAGSGQLGLGGFGAPRRGAYEWGVRSTRKSEPPPLDRVYEIPGLEPITF  
AGKMHFVPWLARIPFPWDRGYKDPFRFYRSPPLHEHPLYKDQACYIFHHRCLLEGVKQA  
LWLTKTKLIEGLPEKVL SLVDDPRNHIENQDECVLNVI SHARLWQTTEEIPKRETYCPVI  
VDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGSGGARLSTKDPLPTIA  
SREEIEATKNHVLETFYPI SPIIDLHECNIDVKNDTGFGEGYPYPYPHTLYLLDKANLR  
PHRLQPDQLRAKMILFAFGSALAQARLLYGNDKAVLEQPVVVQSVGTDGRVFHFLVFQLN  
TTDLDCNEGVKNLAWVDSQLLYQHFWCLPVIKKRVVVEPVGPVGFKPETFRKFLALYLH  
GAA

>sp|Q96E14|RMI2\_HUMAN RecQ-mediated genome instability protein 2 OS=Homo sapiens GN=RMI2  
PE=1 SV=2

MAAAADSFSGGPAGVRLPRSPPLKVLAEQLRRDAEGGPGAWRLSRAAAGRGPLDLAAVWM  
QGRVVMADRGEARLRDPSGDFSVRGLERVPRGRPCLVPGKYVMVMGVVQACSPEPCLQAV

KMTDLSDNPIHESMWELEVEDLHRNIP

>sp|Q8N7X1|RMXL3\_HUMAN RNA-binding motif protein, X-linked-like-3 OS=Homo sapiens  
GN=RBMXL3 PE=2 SV=2

MMEADRPEKLFIGGLNLKTDEKALKAIEFGKYGHI IKVFLMKDRKTNKSRGFAFVTFESPA  
DAKAAARDMNGKYLDGKAIMVAQTIKPAFKSSRWVPPTPGSGSRSRFSHRTRGGGSSPQR  
PPSQGRPDDGRGYAGYFDLWPYRAPMPRKRGPPPRHWASPPHKRATPSSLAHSVCGCMRG  
KAPTMSGQDGYSGLPQRRWAGPPHKRAVPRSSLARIGSGMPGKAPAVWGQDGYSGPRVR  
EPLPCRPDGFVPALRDYSRRYYGHSSVPDYRPLRGDGNQNGYRGRDHEYTDHPSKGSY  
REPLKSYGGPCGAAPVWGTPPSYGGGCRYEYQGNSPDACSEGRSSEALPVVLPDAYSRD  
HSPKAYSGGRSSSSNGYSRSDRYEGECYEEYRGRSPDAHSGGRNSSSNSYQGSHHYGGE  
GRYEEYRGRSHEARSGGRSTDAHSRGRSDDAYSGGHDSWSGCCGGGRYEEYQGRSLD  
ANSGGCSPEAYSGGHDNSSWSDRYGVGGHYEENRGHSLDANSGRSPDTHSGGHSSSSNS  
YQGSHRYGGEGRYEYRGRSHDAHSGGCSADAYSGGHDSQSNNRYGGGCRYEYRGRSLD  
ANSGGRSPNAYSGGHDSSWSHRYGGGGRYEEYRGRSLDANSGRSPDAYSGGHDSSGQS  
NCYGGGGRYEEYRGRLLDANSGRSPDAYSGGHDSSQSNNRYGGGGRYEEYRGHSLDANS  
GGRSPDTSRGHDSSQSDHYGGGGRSLDANSGRLPDAYSGGHDSSSRSHRYGGGGRYE  
EYRGRSLDANSGRSPNAYSGGHNSSRNDPCRGGRYEENRGHSLDANSGGHSPNAYSG  
GRDSSNSYDRSHRYGGGGHYEYRGRSHDTHSRGRSPDAHSGDHYTEAYSRGRDSFSNS  
YGRSDHYGRGGCYEEYQGRSPNAYGGGRGLNSSNNHGRSHRYGGGGRYEEYRGPSPDAH  
SGGRDSSIKSYGLSDRYGGGGHYEYQGSLLPDAYSGDHDRSSNSYGRSDRYSRGRDRVGR  
PDRGLPLMETGSPPLHDSYSRSGCRVPRGGGRQGGRFERGEGRSRY

>sp|O00237|RN103\_HUMAN E3 ubiquitin-protein ligase RNF103 OS=Homo sapiens GN=RNF103 PE=1  
SV=1

MWLKLFLLLYFLVLFVLARFFEAIVWYETGIFATQLVDPVALSFKKLKTILECRGLGYS  
GLPEKKDVRELVEKSGDLMEGELYSALKEEEASESVSSTNFSGEMHFYELVEDTKDGIWL  
VQVIANDRSPLVGKIHWEKMKVKSFRFGIRTGTFCSSDPRYCRRRGWVRSTLIMSVPQT  
STSKGKVMLKEYSGRKIEVEHIFKWI TAHAASRIKTIYNAEHLKEEWNKSDQYWLKIYLF  
ANLDQPPAFFSALSIFKFTGRVEFIFVNVENWDNKSMTDIGIYNMPSYILRTPEGIYRYG  
NHTGEFISLQAMDSFLRSLQPEVNDLFLVLSLVNLMAWMDLFIQTGATIKRFVVLISL  
GTYNLLIISWLPVLGFLQLPYLDSFYEYSLKLLRYSNTTTLASWVRADWMFYSSHPALF  
LSTYLGHGLLIDYFEKRRRRNNNNDEVNANNLEWLSLWDWYTSYLFHPIASFQNFVES  
DWDEDPDLFLERLAFPDLLHPLIPTDYIKNLPMWRFKCLGVQSEEMSEGSQDTENDSE  
SENTDTLSSEKEVFEDKQSVLHNSPGTASHCDAEACSCANKYCQTSPCERKGRSYGSYNT  
NEDMEPDWLTWPADMLHCTECVVCLENFENGCLLMGLPCGHVFHQNCIVMWLAGGRHCCP  
VCRWPSYKKKQPYAQHQPLSNDVPS

>sp|Q9H920|RN121\_HUMAN RING finger protein 121 OS=Homo sapiens GN=RNF121 PE=1 SV=1

MAAVVEVEVGGAAGERELDEVMSDLSPREEQWRVEHARMHAKHRGHEAMHAEMVLILIA  
TLVVAQLLLVQWKQRHPRSYNMVTLFQMWWVPLYFTVKLHWWRFVLIWILFSAVTAFTF  
RATRKLPLVQTTPLRVYKWFLLIYKISYATGIVGYMAVMFTLFGNLLFKIKPEDAMDFGI  
SLLFYGLYYGLERDFAEMCADYMASTIGFYSESGMPTKHLSDSVCAVCGQQIFVDVSEE  
GIIENTYRLSCNHVFHEFCIRGWCIVGKKQTCPYCKEKVDLKRMFSPWERPHVMYGQLL  
DWLRYLVAWQPVIIGVVQGINYILGLE

>sp|Q9H9V4|RN122\_HUMAN RING finger protein 122 OS=Homo sapiens GN=RNF122 PE=2 SV=2  
MHPFQWCNGCFGLGLVSTNKSCSMPPISFQDLPLNIYMVIFGTGIFVFMLSLIFCCYFI

SKLRNQAQSERYGYKEVVLKGDAAKLQLYGQTCAVCLEDFKGKDELGVLPQHAFHRKCL  
VKWLEVRVCVPMCNKPIASPSEATQNIGILLDELV

>sp|Q8WVZ7|RN133\_HUMAN E3 ubiquitin-protein ligase RNF133 OS=Homo sapiens GN=RNF133 PE=2  
SV=1

MHLLKVGTVWRNNTASSWLMKFSVLWLVSQNCRASVVMAYMNISFHVGNHVLSELGETG  
VFGRSSTLKRVAGVIVPPEGKIQNACNPNTIFSRSKYSETWLALIERGGCTFTQKIKVAT  
EKGASGVIIYNVPGTGNQVFPFMFHAQFEDVVVMIGNLKGTEIFHLIKKGVLTAVVEVG  
RKHI IWMNHVLSFVIVTTATLAYFIFYHIHRLCLARIQNRWQRLTTDLQNTFGQLQLR  
VVKEGDEEINPNGDCVICFERYPNDIVRILTCKHFFHKNCIDPWILPHGTCPICKCDI  
LKVLGIQVVVENGTEPLQVLSNELPETLSPSEEETNNEVSPAGTSDKVIHVEENPTSQN  
NDIQPHSVVEDVHPSP

>sp|Q96MT1|RN145\_HUMAN RING finger protein 145 OS=Homo sapiens GN=RNF145 PE=2 SV=2

MAAKEKLEAVLNVALRVPSIMLLDVLYRWDVSSFFQIQRSSLSNNPLFQYKYLALNMHY  
VGYILSVVLLTLPRQHLVQLYLYFLTALLYAGHQISRDYVRSELEFAYEGPMYLEPLSM  
NRFTTALIGQLVCTLCSCVMKTKIWLFSAHMLPLLARLCLVPLETIVIINKFAMIFTG  
LEVLYFLGSNLLVPYNLAKSAYRELVQVVEVYGLLALGMSLWNQLVVPVLFMVFWLVLFA  
LQIYSYFSTRDQPASRERLLFLFLTSIAECCSTPYSLGLVFTVSFVALGVLTLCCKFYLQ  
GYRAFMNDPAMNRGMTEGVTLLILAVQTGLIELQVVHRAFLLSIILFIVVASILQSMLEI  
ADPIVLALGASRDKSLWKHFRAVSLCLFLLVFPAYMAYMICQFFHMDFWLLIISSSILT  
SLQVLGTLFIYVLFMVVEEFRKEPVENMDDVIYYVNGTYRLEFLVALCVVAYGVSETIFG  
EWTVMGSMIIFIHSYYNVWLRALGWKSFLRRDAVNKIKSLPIATKEQLEKHNDICAIC  
YQDMKSAVITPCSHFFHAGCLKKWLYVQETCPLCHCHLKNSSQLPGLGTEPVLQPHAGAE  
QNVMFQEGTEPPGQEHTPGTRIQEGSRDNNEYIARRPDNQEGAFDPKEYPHSAKDEAHPV  
ESA

>sp|Q8N7C7|RN148\_HUMAN RING finger protein 148 OS=Homo sapiens GN=RNF148 PE=2 SV=2

MSFLRITPSTHSSVSSGLLRSLIFLLSFPDSNGKAIWTAHLNITFQVGNEITSELGESG  
VFGNHSPLERVSGVVALPEGWNQACHPLTNFSRPKQADSWLALIERGGCTFTHKINVAA  
EKGANGVIIYNYQGTGSKVFPMSHQGTENIVAVMISNLKGMEILHSIQKGVYVTVIIIEVG  
RMHMQWVSHYIMYLFTHAATIAFYLDVCVWRLTPRPVNSFTRRRSQIKTDVKKAIQDLQ  
LRVLKEGDEELDNEDNCVVCFDTYKPQDVVRILTCKHFFHKACIDPWLLAHRTCPMCKC  
DILKT

>sp|Q6ZSG1|RN165\_HUMAN RING finger protein 165 OS=Homo sapiens GN=RNF165 PE=1 SV=1

MVLVHVGYLVPVFGSVNRNARGAPQRSQHPHATSCRHFHLGPPQPQLAPDFPLAHPVQS  
QPGLSAHMAPAHQHSALHQSLLTPLTLQFQDVTGPSFLPQALHQQYLLQQQLLEAQHRR  
LVSHPRRSQERVSVHPHRLHPSFDFGQLQTPQPRYLAEGTDWDLSDAGLSPAQFQVRPI  
PQHYQHLYLATPRMHFPRNSSSTQMVVHEIRNYPYPQLHFLALQGLNPSRHTSAVRESYE  
ELLQLEDRLGNVTRGAVQNTIERFTFPHKYKKRRPQDGKGGKDEGEESDTDEKCTICLSM  
LEDGEDVRRLPCMHLFHQLCVDQWLAMSKKCPICRVDIETQLGADS

>sp|Q96K19|RN170\_HUMAN E3 ubiquitin-protein ligase RNF170 OS=Homo sapiens GN=RNF170 PE=1  
SV=2

MAKYQGEVQSLKLDDSVIEGVSDQVLVAVVVSFALIATLVYALFRNVHQNIHPENQELV  
RVLREQLQTEQDAPAATRQQFYTYDMYCICLHQASFPVETNCGHLFCGACIIAYWRYGSW  
LGAISCPICRQTVTLLLTVFGEDDQSQDVLRLHQDINDYNRRFSGQPRSIMERIMDLPTL  
LRHAFREMFVGGGLFWMFRIRIILCLMGAFFYLISPLDFVPEALFGILGFLDDFFVIFLL

LIYISIMYREVITQRLTR

>sp|Q9POP0|RN181\_HUMAN E3 ubiquitin-protein ligase RNF181 OS=Homo sapiens GN=RNF181 PE=1 SV=1

MASYFDEHDCEPSDPEQETRNTMLELARSLEFNRMDFEDLGLVVDWDHHLPPAAKTVVE  
NLPRTVIRGSQAELKCPVCLLEFEEEEETAIEMPCHHLFHSSCILPWLSKTNCSPLCRYEL  
PTDDDTYEEHRRDKARKQQQHRLENLHGAMYT

>sp|MOQZC1|RN225\_HUMAN RING finger protein 225 OS=Homo sapiens GN=RNF225 PE=3 SV=2

MPCPRPFWLHRSRAPQGSGPSSPGSLAPRSPSRGEDQEEEEEEEGDGGSPGSGPILPPAS  
PVECLICVSSFDGVFKLPKRLDCGHVFCLECLARLSLATAGGNAVACPVCRAPTRLAPR  
RGLPALPTQSGLLPDARAPPSRQGSVRFDRRRGLLYLRPPPPPPGPRKARAPPPPPPLR  
LGRPLSRRLSLASPAWVFNAVALAVLVAAGLVVSGVYIFFLIPHATSSGPPRPQLVALA  
PAPGFSWFPPRPSPGSPWAPAWTPRPTGPDLDLALPGTAEDALEPEAGPEDPAEAERTLD  
RRSDGTWGTEAGPGWAPWPRGARRLWGSQ

>sp|A6NIE6|RN3P2\_HUMAN Putative RRN3-like protein RRN3P2 OS=Homo sapiens GN=RRN3P2 PE=5 SV=3

MAAPLLHTRLPGDAAASPSAVKMLGASRTGISNMLENDFFNSPPRKTVQFGGTVTEVL  
LKYKTGETNDFELLKNQLLDPDIKDDQIINWLEFRSSIMYLTKDFEQLISIIILRLPWLN  
RSQTVVEEYLAFLGNLVSATVFLRPCLSMIASHFVPPRVIIEGDDVDSDSDEDDNLP  
ANFDTSQSLANNSKICTIECYVHLLRISVYFPTLRHEILELIIKLLKLDVNASRQGIE  
DAEETANQTCGGTDSLEGCLNMGFAEAFLEPLWKKLQDPSNPAIIRQAAGNYIGSFLARA  
KFIPLMIREQRHSAMLLSMDHFTQPAKLCSTPLFLDTSSF

>sp|Q9H0A6|RNF32\_HUMAN RING finger protein 32 OS=Homo sapiens GN=RNF32 PE=1 SV=1

MLKNKGHSSKKDNLAVNAVALQDHILHDLQLRNLVADHSKTQVQKKENKSLKRDTKAII  
DTGLKKTTCQPKLEDSEKEYVLDPKPPPLTLAQKLGLIGPPPPPLSSDEWEKVKQRSLLQ  
GDSVQPCPICKEEFELRPQVLLSCSHVFHKACLQAFEKFTNKKTCPLCRKNQYQTRVIHD  
GARLFRIKCVTRIQAYWRGCVVRKWYRNLKTVPTDAKLRKKFFEKKFTEISHRILCSY  
NTNIEELFAEIDQCLAINRSVLQQLLEKCGHEITEEWEKIQVQALRRETHECSICLAPL  
SAAGGQVRVGAGRRSREALLSCSHVFHHACLLALEEFSVGDPRPPFHACPLCRSCYQKKIL  
EC

>sp|Q9H4P4|RNF41\_HUMAN E3 ubiquitin-protein ligase NRDP1 OS=Homo sapiens GN=RNF41 PE=1 SV=2

MGYDVTRFQGDVDEDLICPICSGVLEEPVQAPHCEHAFNACITQWFSQQQTCPVDRSVV  
TV AHLRPVPRIMRNMSKLQIACDNAVFGCSAVVRLDNLSHLSDCENPKRPVTCEQGC  
GLEMPKDELPNHNCIKHLRSVVQQQQTIAELEKTSAEHKKQLAEQKRD IQLLKAYMRAI  
RSVNPNLQNLEETIEYNEILEWVNSLQPARVTRWGMISTPDAVLQAVIKRSLVESGCPA  
SIVNELIENAHERSWPQGLATLETRQMNRYYENYVAKRIPGKQAVVVMACENQHMGDMD  
VQEPGLVMIFAHGVEEI

>sp|P78317|RNF4\_HUMAN E3 ubiquitin-protein ligase RNF4 OS=Homo sapiens GN=RNF4 PE=1 SV=1

MSTRKRRGGAINSRQAQKRTREATSTPEISLEAEPIELVETAGDEIVDLTCESELPVVVD  
LTHNDSVVIVDERRRPRRNARRLPQDHADSCVVSDDDEELSRDRDVVYVTTHTPRNARDEG  
ATGLRPSGTVSCPICMDGYSEIVQNGRLIVSTECGHVFCSQCLRDSLKNANTCPTCRKKI  
NHKRYHPIYI

>sp|O00584|RNT2\_HUMAN Ribonuclease T2 OS=Homo sapiens GN=RNASET2 PE=1 SV=2

MRPAALRGALLGCLCLALLCLGGADKRLRDNHEWKKLIMVQHWPETVCEKIQNDCRDPPD

YWTIHGLWPKSEGCNRSWPFNLEEIKDLLPEMRAYWPDVIHSFPNRSRFWKHEWEKHGT  
CAAQVDALNSQKKYFGRSLELYRELDLNSVLLKLGIKPSINYYQVADFKDALARVYGVIP  
KIQCLPPSQDEEVQTIGQIELCLTKDQQLQNCTEPGEQSPKQEVWLANGAAESRGLRV  
CEDGPVFYPPPKTKH

>sp|Q9H777|RNZ1\_HUMAN Zinc phosphodiesterase ELAC protein 1 OS=Homo sapiens GN=ELAC1 PE=1  
SV=2

MSMDVTFLGTGAAYSPSTRGASAVVLRCEGECWLFDCGEGTQTQLMKSQLKAGRITKIFI  
THLHGDHFFGLPGLLCTISLQSGSMVSKQPIEIIYGPVGLRDFIWRTMELSHTELVFHYVV  
HELPTADQCPAEELKEFAHVNRA DSPKKEEQGRTIILLDSENSYLLFDDEQFVVKAFRL  
FHRIPSFQFSVVEKKRPGKLNQKLDLGVPPGPAYGKLKNGISVLENGVTISPQDVLK  
KPIVGRKICILGDCSGVVG DGGVKLCFEADLLIHEATLDDAQMDKAKEHGHSTPQMAATF  
AKLCRAKRLVLTHFSQRYKPVALAREGETDGI AELKKQAESVLDLQEVTLAEDFMVISIP  
IKK

>sp|Q8IWN7|RP1L1\_HUMAN Retinitis pigmentosa 1-like 1 protein OS=Homo sapiens GN=RP1L1  
PE=1 SV=4

MNSTPRNAQAPSHRECFLPSVARTPSVTKVTPAKKITFLKRGDPRFAGVRLAVHQRAFKT  
FSALMDELSQRVPLSFGVRSVTTPRGLHLSALEQLEDGGCYLCSDDKKPKTPSGPGRPQ  
ERNPTAQQLRDVEGQREAPGTSSSRKSLKTPRRILLIKNMDPRLQQTIVLSHRNTRNLAA  
FLGKASDLLRFPVKQLYTTSGKKVDSLQALLHSPSVLVCAGHEAFRTPAMKNARRSEAET  
LSGLTSRNKNGSWGPKTKPSVIHSRSPGSTPRLPERPGPSNPPVGPAPGRHPQDTPAQS  
GPLVAGDDMKKKVRMNE DGSLSVEMKVRFHVLVGEDTLLWSRRMGRASALTAASGEDPVLG  
EVDPLCCVWEGYPWGFSEPGVWGPRPCRVCREVFG RGGQPGPKYEIWTNPLHASQGERV  
AARKRWGLAQHVRC SGLWGHGTAGRERCSQDSASPASSTGLPEGSEPESSCCPRTPEDGV  
DSASPSAQIGAERKAGGSLGEDPGLCIDGAGLGGPEQGGRLTPRARSEEGASSDSSASTG  
SHEGSSEWGGRPQGCPGKARAETSQQEASEGGDPASPALSLSLRSDDLQAETQGGGTEQ  
ATGAAVTREPLVLGLSCSWDSEGASSTPSTCTSSQQGRRHRSRASAMSSPSSPGLGRVA  
PRGHPRHSHYRKDTHSPLDSSVTQVPRPPERRRACQDGSVPRYSGSSSSTRTQASGNLR  
PPSSGSLPSQDLLGTSSATVTPAVHSDFVSGVSPHNAPSAGWAGDAGSRTCSPAPIPPHT  
SDSCSKSGAASLGEEARDTPQPSSPLVLQVGRPEQGAVGPHRSHCCSQPGTQPAQEAQRG  
PSPEASWLCGRYCPTPRGRPCPQRRSSSCGSTGSSHQSTARGPGGSPQEGTRQPGPTPS  
PGPNSGASRRSSASQGAGSRGLSEEKTLRSGGGPQQGEEASGVSPSSLPRSSPEAVVREW  
LDNIPEEPILMTYELA DETTGAAGGGLRGPEVDPGDDHSLEGLGEP AQAGQQSLEGDPGQ  
DPEPEGALLGSSDTGFPQSGEGVPQGAAPGVSEAPAEAGADREAPAGCRVSLRALPGRVS  
ASTQIMRALMGSKQGRPSSVPEVSRPMARRLSCSAGALITCLASLQLFEEDLGSPASKVR  
FKDSPRYQELLSISKDLWPGCDVGEDQLDSGLWELTWSQALPDLGSHAMTENFTPTSSSG  
VDISSGSGSGESSVPCAMDGLTVTQGT ELPKTSNQRPD SRTYESPGDLENQQCCFPT  
FLNARACACATNEDEAERDSEEQRASSNLEQLAENTVQEEVQLEETKEGTEGEGLQEEGV  
QLEETKTEEGLQEEGVQLEETKTEEGLQEEGVQLEETKTEEGLQEEGVQLEETKTEEGLQ  
EEGVQLEETKTEEGLQEEGVQLEETKTEEGLQEEGVQLEETKTEEGEGQQEAAAQLEEIE  
ETGGEGLQEEGVQLEEVKEGPEGGLQGEALEEGLKEEGLPEEGSVHGQELSEASSPDGKG  
SQEDDPVQEEA GRASASAEPCEAEGTEEPT EPPSHLSETDPSASERQSGSQLEPGLEKP  
PGATMMGQEHTQAQPTQGAERSSSVACSAALDCDPIWVSVLLKKTEKAFLAHLASAVAE  
LRARWGLQDNLLDQMAELQQDVAQRLQDSTKRELQKLQGRAGRMVLEPPREALTGELL  
LQTQRRHRLRGLRNLSAFSERTLGLGPLSFTLEDEPALSTALGSQLGEEAEGEEFCPCE

ACVRKKVSPMSPKATMGATRGPIKEAFDLQQILQRKRGEHTDGEAAEVAPGKTHTDPTST  
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QSEEAESSSPVPEDRPTPPSPGGDTPHQRPGSQTGPSSSRASSWGNCWQKSENDHVL  
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>sp|P56715|RP1\_HUMAN Oxygen-regulated protein 1 OS=Homo sapiens GN=RP1 PE=1 SV=1

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RRRPRPWLSSRAISAHSPHPVAVAAPGMPRPPRSLVFRNGDPKTRRAVLLSRRVTQSF  
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GQFSYSEERESGENKSEYHMFTHSCSKMSSVSNKPVLVQINNNDQMEESSLERKKENSL  
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EKKILSSVASKKKKSRQQAINSRYQDQGLATKGILNKNERINTKGRITKEMIVQSDSP  
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SKTLELIDISSKNIMEEKMNGIIYEII SKRLATPPSLDFCYDSKQNSEKETNEGETKMV  
KMMVKTMETGSYSESSPDLKKCIKSPVTS DWSDYRPDSDEQPYKTSSDDPNDSGELTQE  
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SSSELEELTQPLELKCNYFNMPHGS DSEPFHEDLLDVRNETCAKERIANHHTEEGSHQS  
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LLVGVNDSNTQDLSGQTNEIFKAVDENNNLLNNRFQGSRTNLNQVVRENINCHYFFEML  
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>sp|015318|RPC7\_HUMAN DNA-directed RNA polymerase III subunit RPC7 OS=Homo sapiens  
GN=POLR3G PE=1 SV=2

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KQELRETMKRMPYFIETPEERQDIERYSKRYMKVYKEEWIPDWRRLPREMMPRNKCKKAG  
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>sp|Q9Y4G8|RPGF2\_HUMAN Rap guanine nucleotide exchange factor 2 OS=Homo sapiens GN=RAPGEF2  
PE=1 SV=1

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GVIKQRRLPDQLSKLADRIQLSGRYLKNMETETLCSEDAQELLRESQISLLQLSTVE  
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QLKRMKIIKHFIKIALHCRECKNFNSMFAIISGLNLAPVARLRTTWEKLPNKYEKLFQDL  
QDLFDP SRNMAKYRNVLSNQLQPP I IPLFPVIKKDLTFLHEGND SKVDGLVNFELRMI  
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FLNAKKLYEDAQMARKVKQYLSNLELEMEDESLQTL SLQCEPATNTLPKNPGDKKPVKSE  
TSPVAPRAGSQKKAQSLPQPQQPPPAHKINQGLQVPAVSLYPSRKKVPVKDLPPFGINS  
PQALKKILSLSEEGSLERHKKQAEDTISNASSQLSSPPTSPQSSPRKGYTLAPSGTVDNF  
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SLGSYAPMSEGRGLYATATVISSPSTEELS QDQGDRA SLDAADSGRGSWTSCSSGSHDNI  
QTIQHQRSWETLPFGH THFDYSGDPAGLWASSSHMDQIMFSDHSTKYNRQNSRESLEQA  
QSRASWASSTGYWGEDSEGDGTG I KRRGGKDV SIEAESSLTSVTTEETKPVMPAHIAV  
ASSTTKGLIARKEGRYREPPPTPPGYIGIPITDFPEGHSH PARKPPDYNVALQRSRMVAR  
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>sp|Q8TEU7|RPGF6\_HUMAN Rap guanine nucleotide exchange factor 6 OS=Homo sapiens GN=RAPGEF6  
PE=1 SV=2

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PQVTHVSSSQSGCSIASDSGSSSLSDIYQATESEVGDVDLTRLPEGPVDSDEDEEEDDEE  
DRTDPLQGRDLVRECLEKEPADKTDDDIEQLLEFMHQLPAFANMTMSVRRELCSVMIFEV  
VEQAGAIILEDGQELDSWYVILNGTVEISHPDGKVENLFMGNSFGITPTLDKQYMHGIVR  
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PERLIMHLIEEHSIVDPTYIEDFLLTYRTFLESPLDVGIKLLEWFKIDSLRDKVTRIVLL  
WVNNHFNDFEGDPAMTRFLEEFKNELEDTKMNGHLRLLNIACAAKAKWRQVVLQKASRES  
PLQFSLNGGSEKGFIFVEGVEPGSKAADSGLKRGDQIMEVNGQNFENITFMKAVEILRN  
NTHLALT VKTNIFVFKELLFRTEQEKSGVPHIPKIAEKKSNRHSIQHVPGDIEQTSQEK  
SKVKKANTVSGGRNKIRKILDKTRFSILPPKLFSDGGLSQSQDDSI VGRHCRHSLAIMP  
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SDEDAQELVKESQLSMLQLSTIEVATQLSMRDFDLFRNIEPT EYIDDLFKLNSKTGNTHL  
KRFEDIVNQETFWVASEILTEANQLKRMKIIKHFIKIALHCRECKNFNSMFAIISGLNLA  
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TFLHEGNSKVDGLVNFELKRMISKEIRQVVRMTSANMDPAMMFRQRSLSQGSTNSNMLD  
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PALNTSLPQKVLGTTEEISGKKHTEDTISVASSLHSSPPASPQGSPhKGyTLIPSAKSDN  
LSDSSHSEISSRSSIVSNCSVDSMSAALQDERCSSQALAVPESTGALEKTEHASGIGDHS  
QHGPWTLLKPSLIKCLAVSSSVSNEEISQEHIIIEAADSGRGSWTSCSSSSHDFQSLP  
NPKSWDFLNSYRHTLDDPIAEVEPTDSEPYSCSKSRTCGQCKGSLERKSWTSSSSLS  
DTYEPNYGTVKQRVLESTPAESSEGLDPKDATDPVYKTVTSSTEKGLIVYCVTSPKKDDR  
YREPPPTPPGYLGISLADLKEGPHTHLKPPDYSAVQRSKMMHNSLSRLPPASLSSNLVA  
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>sp|Q684P5|RPGP2\_HUMAN Rap1 GTPase-activating protein 2 OS=Homo sapiens GN=RAP1GAP2 PE=1  
SV=2

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EMLEKMGGIKLEEQKPGPQKNKDDYIPYPSIDEVVEKGGPYPQVILPQFGGYWIEDPEN  
GTPTSLGSSICEEEEEEDNLSPNTFGYKLECKGEARAYRRHFLGKDHLNFYCTGSSLGNLI  
LSVKCEEAEGLIYLRVILRSKLKTVHERIPLAGLSKLPSVPQIAKAFCD DAVGLRFPVL  
YPKASQMIVSYDEHEVNNTFKFGVIYQKARQTLEEELFGNNEESPAFKEFLDLLGDTITL  
QDFKGRGGLDVTHGQTGVESVYTTFRDREIMFHVSTKLPTDGAQQLQRKRHIGNDIV  
AII FQEENTPFVPMIASNFLHAYIVVQVETPGTETPSYKSVTAREDVPTFGPPLPSP  
VFQKGPEFREFLLTKLTNAENACCKSDKFAKLEDRTAALLDNLHDELHAHTQAMLGLGP  
EEDKFENGHGGFLESFKRAIRVRSHMETMVGGQKKSHSGGIPGSLSGGISHNSMEVTK  
TTFSPPVVAATVKNQSRSPIKRRSGLFPRLHTGSEGQGDSRARCSTSTPKTPDGGHSS  
QEIKSETSSNPSSPEICPNKEKPFMKLKENGRAISRSSSTSSVSSTAGEGEAMEEGDSG  
GSQPSTTSPFKQEVFVYSPSPSSEPSLGAAATPIIMSRSP TDAKSRNSPRSNLKFRFDK  
LSHASSGAGH

>sp|Q96KN7|RPGRI\_HUMAN X-linked retinitis pigmentosa GTPase regulator-interacting protein  
1 OS=Homo sapiens GN=RPGRI1 PE=1 SV=2

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ATNENRGEVASKPSELVSGSNSIISFSSVISMAKPIGLCMPNSAHIMASNTMQVEEPPKS  
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QERVEDLEKERKLLNDNYDKLLESMLDSSDSSSQPHWSNELIAEQLQQQVSQLQDQLDAE  
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VLQENTQIEPSEPKNQEEKLSQVLNELQVSHAETTLELEKTRDMLILQRKINVCYQEEL  
EAMMTKADNDNRDHKEKLERLTRLLDLKNNRIKQLEGILRSHDLPTSEQLKDVAYGTRPL  
SLCLETLPAGHDEKVDISLLHQGENLFELHIHQAFLTSAALAQAGDTQPTTFCTYSFYD  
FETHCTPLSVGPQPLYDFTSQYVMETDSLFLHYLQEASARLDIHQAMASEHSTLAAGWIC  
FDRVLETVEKVHGLATLIGAGGEEFGVLEYWMRLRFPIKPSLQACNKRKKAQVYLSTDVL  
GGRKAQEEEFRSESWEPQNELWIEITKCCGLRSRWLGTQSPYAVYRFFTFSDHDTAIIP  
ASNPNPYFRDQARFPVLVTSDDLHYLRREALSIHVFDDEDELEPGSYLGRARVPLPLAKNE  
SIKGDNLTDPAEKPNGSIQVQLDWKFPYIPPEFLKPEAQTKGKDTKDSSKISSEEEKA  
SFPSQDQMASPEVPIEAGQYRSKRKPPHGGGERKEKEHQVVSYSRRKHGKRIGVQGKNRME  
YLSNLNLNGTPEQVNYTEWKFSETNSFIGDGFKNQHEEEEMTLSHSALKQKEPLHPVND  
KESSEQGSEVSEAQTTSDDVIVPPMSQKYPKADSEKMCIEIVSLAFYPEAEVMSDENIK  
QVYVEYKFYDLPLSETETPVSLRKPRAGEEIHFFHSKVIDLDPQEQGRRRFLFDMLNGQ  
DPDQGHKLFTVVSDDLDEEKECEEVGYAYLQLWQILESGRDILEQELDIVSPEDLATPI  
GRLKVSLLQAAAVLHAIYKEMTEDLFS

>sp|Q6DKI1|RL7L\_HUMAN 60S ribosomal protein L7-like 1 OS=Homo sapiens GN=RPL7L1 PE=1 SV=1

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RQKRDKVRLRRLEVKPHALELPDKHSLAFVVRIERIDGVSLLVQRTIARLRLKKIFSGVF  
VKVTPQNLKMLRIVEPYVTWGFPNLKSVRELILKRGQAKVKNKTIPLTDNTVIEEHLGKF  
GVICLEDLIHEIAFPKGKHFQEISWFLCPFHLSVARHATKNRVGFLKEMGTPGYRGERINQ  
LIRQLN

>sp|Q13129|RLF\_HUMAN Zinc finger protein Rlf OS=Homo sapiens GN=RLF PE=1 SV=2

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REQEVSEVSSLNYCRSFCQTLLQYASKNASEHIVYLLEVYRLAIQSFASARPYLTTCECE  
DVLLVLGRVLSCFELLLSVSESELPCEVWLPFLQSLQESHDALEFGNNNLQILVHVK  
EGVWKNPVLLKILSQPVETEENKILAEQGPSFLQMRIKHLKSNIPQATASKLCAE  
SKEISNVSSFQAYITCLCSMLPNEDAIKEIAKVDCKEVLDIICNLESEGQDNTAFVLCT  
TYLTQQLQTASVYCSWELTLFWSKLQRRIDPSLDTFLERCQFGVIAKTQQHLFCLIRVI  
QTEAQDAGLGVSIILCVRALQLRSSEDEEMKASVCKTIACLLPEDLEVRRACQLTEFLIE  
PSLDGFNMLEELYLPDQKFDEENAPVPNSLRCELLLALKAHWPFDPFWDWKTILKRHCH  
QLLGQEASDSDDDLSGYEMSINDTDVLESFSLSDYDEGKEDKQYRRRDLTDQHKEKRDKKP  
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VMEHVKMPPSRRDRSKKLLKGSQKGICPKSPSAIPEQNHSNDQAKGESHEYVTFSKL  
EDCHLQDRDLPCPGTDCSRVFKQFKYLSVHLKAEHQNNDENAKHYLDMKNRREKCTYCR  
RHFMSAFHLREHEQVHCGPQPYMCVSIDCYARFGSVNELLNHKQKHDDLRYKCELNGCNI  
VFDLGLLYHHEAQHFRDASYTCNFLGCKKFYYSKIEYQNHLSMHNVENSNNGDIKKS VKL  
EESATGEKQDCINQPHLLNQTDKSHLPEDLFAESANSQIDTETAENLKENS DSNSSDQL  
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CGSTYKNARGMQKHLRKVHPYHFPPKKIKTKDLFPSLGNHNQTTEKLD AEPKPCSDTNS  
DSPDEGLDHNHIIKCKREHQGYSSSESSICASKRPCTEDTMLELLLRKHL SLKNSITHGS

FSGSLQGYPSSGAQSLQSVSSISDLNFQNDENMPSQYLAQLAAKPFCELGCKYEFVT  
REALMHYLLKKNYSKEKVLQLTMFQHRYSPFQCHICQRSFTRKTHLRIHYKNKHQIGSD  
RATHKLLDNEKCDHEGPCSVDRLKGDCSAELGGDPSSNSEKPHCHPKKDECSSETDLESS  
CEETESKTSDISSPIGSHREEQEGREGGRSRTVAKGNLCYILNKYHKPFHCIHKTCNSS  
FTNLKGLIRHYRTVHQYNKEQLCLEKDKARTKRELVKCKKIFACKYKECNKRFLCSKALA  
KHCSDSHNLHDIEEPKVLSEAGSAARFSCNQPCPAVFYTFNKLKHHLMQHNIEGEIHS  
DYEIHCNLDNGCGQIFTHRSNYSQHVVYRHKDYDDLFRSQKVANERLLRSEKVCQTADTQ  
GHEHQTTRRSFNAKSKCGLIKEKKAPISFKTRAEALHMCVEHSEHTQYPCMVQGCLSVV  
KLESSIVRHYKRTHQMSSAYLEQQMENLVVCVYGTKIKEEPPSEADPCIKKEENRSCES  
ERTEHSHSPGDSSAPIQNTDCCSSERDGGQKGCIESSSVFDADTLLYRGTLKCNHSSKT  
TSLEQCNIVQPPPPCKIENSIPNPGTESGYFTSFQLPLPRIKESETRQHSSGQENTVK  
NPTHVPKENFRKHSQPRSFDLKTYKPMGFESSFLKFIQEESEEKEDDFDDWEPSEHLTSLN  
SSQSSNDLTGNVVANMVDSEPEVDIPHSSSDSTIHENLTAIPPLIVAETTTVPSLENL  
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>sp|Q9UHA3|RLP24\_HUMAN Probable ribosome biogenesis protein RLP24 OS=Homo sapiens  
GN=RSL24D1 PE=1 SV=1

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KELTVDNSFEFEKRRNEPIKYQRELWNKTIDAMKRVEEIKQKRQAKFIMNRLKKNKELQK  
VQDIKEVKQNIHLIRAPLAGKGKQLEEKMVQQLQEDVDMEDAP

>sp|Q7Z7H8|RM10\_HUMAN 39S ribosomal protein L10, mitochondrial OS=Homo sapiens GN=MRPL10  
PE=1 SV=3

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HPSCLPSPSPSPQEEIGLIRLLRREIAAVFQDNRMIAVCQNVALSIEDKLLMRHQLRKHK  
ILMKVFPNQVLKPFLEDSKYQNLPLFVGHNMILLVSEEPKVKEMVRILRTVPFLPLGGC  
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REKDSVMSANGKPDPTVPDS

>sp|P52815|RM12\_HUMAN 39S ribosomal protein L12, mitochondrial OS=Homo sapiens GN=MRPL12  
PE=1 SV=2

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PPKIQQLVQDIASLTLEISDLNELLKKTILKIQDVGLVPMGGVMSGAVPAAAAQEAVEED  
IPIAKERTHTFVRLTEAKPVDKVKLIKEIKNYIQGINLVQAKKLVESLPQEIKANVAKAE  
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>sp|Q9Y6G3|RM42\_HUMAN 39S ribosomal protein L42, mitochondrial OS=Homo sapiens GN=MRPL42  
PE=1 SV=1

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>sp|Q86TS9|RM52\_HUMAN 39S ribosomal protein L52, mitochondrial OS=Homo sapiens GN=MRPL52  
PE=1 SV=2

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KGQLRRKAERETFARRVVLLSQEMDAGLQAWQLRQQKLQEEQRKQENALKPKGASLKSPL  
PSQ

>sp|Q96E39|RMXL1\_HUMAN RNA binding motif protein, X-linked-like-1 OS=Homo sapiens  
GN=RBMXL1 PE=1 SV=1

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>sp|Q6ZNA4|RN111\_HUMAN E3 ubiquitin-protein ligase Arkadia OS=Homo sapiens GN=RNF111 PE=1  
SV=3

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VLARRKYALLPSSSSSENDSSESSSSSTEGEEDLFVSASENHQNNPAVPSGSIDEDV  
VVIEASSTPQVTANEEINVTSTDSEVEIVTVGESYRSRSTLGHSRSHWSQGSSSHASRPQ  
EPRNRSRISTVIQPLRQNAAEVVDLTVDEDEPTVVPTTSARMESQATSASINNSNPSTSE  
QASDTASAVTSSQPSTVSETSATLTSNSTTGTSIGDDSRRTTSSAVTETGPPAMPRLPSC  
CPQHSPCGSSQNHHALGHPHTSCFQQHGHFQHHHHHHHTHPAVPVSPSFDPAACPVE  
RPPQVQAPCGANSSSGTSYHEQQALPVDLSNSGIRSHGSGSFHGASAFDPCCPVSSSRAA  
IFGHQAAAAAPSQPLSSIDGYGSSMVAQPQPQPPQPSLSSCRHYMPPPYASLTRPLHHQ  
ASACPHSHGNPPPTQPPPQVDYVPHPVHAFHSQISSHATSHPVAPPPPTHLASTAAPI  
PQHLPPTHQPISHHIPATAPPAQRLHPHEVMQRMVQRRRMMQHPTRAHERPPPHPHRMH  
PNYGHGHHIHVPQTMSSHPQAPERSAWELGIEAGVTAATYTPGALHPLAHYHAPPRH  
HLQLGALPLMVPDMAGYPHIRYISSGLDGTSTFRGPFGRGNFEELIHLEERLGNVNRGASQG  
TIERCTYPHKYKVTTDWFSQRKLHCKQDGEETEDTEEKCTICLSILEEGEDVRRLLPC  
MHLFHQVCVDQWLITNKKCPICRVDIEAQLPSES

>sp|Q8IUD6|RN135\_HUMAN E3 ubiquitin-protein ligase RNF135 OS=Homo sapiens GN=RNF135 PE=1  
SV=2

MAGLGLGSAPVWLAEDDLGCIICQGLLDWPATLPCGHSFCRHCLEALWGARDARRWACP  
TCRQGAAQQPHLRKNTLLQDLADKYRRAAREIQAGSDPAHCPCPGSSSLSSAAARPRRRP  
ELQRAVEKSITEVAQELTELVEHLVDIVRSLQNRPLSESGPDNELSILGAFSSGVDL  
SMASPKLVTSDTAAGKIRDILHDLLEEIQEKLQESVTWKEAPEAQMAGELLEAPSSSSCPL  
PDQSHPALRRASRFAQWAIHPTFNLKSLSCSLEVSKDSRTVTVSHRPQPYRWSCERFSTS  
QVLCSQALSSGKHYEVDTRNCSHWAVGVASWEMSRDQVLGRTMDSCCVEWKGTSQLSAW  
HMKETVLGSDRPGVVGIWLNL EEGKLAFYSVDNQEKLLYECTISASSPLYPAFWLYGLH  
PGNYLIIKQKV

>sp|Q8WVD3|RN138\_HUMAN E3 ubiquitin-protein ligase RNF138 OS=Homo sapiens GN=RNF138 PE=1  
SV=1

MAEDLSAATSYTEDDFYCPVCQEVLTPTVRTTACQHVFCRKCFLTAMRESGAHCPLCRGN  
VTRRERACPERALDENIMRKFSGSCRCAKQIKFYMRHHYKSCKKYQDEYGVSSIIPN  
FQISQDSVGNRSETSTSDNTETYQENTSSSGHPTFKCPLCQESNFTRQRLLDHCNSNH  
LFQIVPVTCPICVSLPWGDPQITRNFVSHLNQRHQFDYGEFVNLQLDEETQYQTAVEES  
FQVNI

>sp|Q8NC42|RN149\_HUMAN E3 ubiquitin-protein ligase RNF149 OS=Homo sapiens GN=RNF149 PE=2 SV=2

MAWRRREASVGARGVLALALLALALCVPGARGRALEWFSAVVNIEYVDPQTNLTVWSVSE  
SGRFGDSSPKEGAHGLVGPWAPGGDLEGCPDTRFFVPEPGGGAAPWVALVARGGCTF  
KDKVLVAARRNASAVVLYNEERYGNITLPMASHAGTGNIVVIMISYPKGREILELVQKGIP  
VTMTIGVGTRHVQEFISGQSVVFVAIAFITMMIISLAWLIFYIYIQRFLYTGSQIGSQSHR  
KETKKVIGQLLLHTVKHGEKIDVDAENCAVCIENFKVKDIIRILPCKHIFHRICIDPWL  
LDHRTCPMCKLDVIKALGYWGEPPDVQEMPAPESPPGRDPAANLSLALPDDDGSDSSPP  
SASPAESEPPQCDPSFKGDAGENTALLEAGRSDSRHGGPIS

>sp|Q86T96|RN180\_HUMAN E3 ubiquitin-protein ligase RNF180 OS=Homo sapiens GN=RNF180 PE=2 SV=2

MKRSKELITKNHSQEETSILRCWKCRKCIASSGCFMEYLENQVIKDKDSDVDAQNICHVW  
HMNVEALPEWISCLIQKAQWTVGKLNCPFCGARLGGFNFVSTPKCSCGQLAAVHLSKSRT  
DYQPTQAGRLMRPSVKYLSHPRVQSGCDKEALLTGGGSENRNHRLLNMARNNDPGRLTE  
ALCLEVRPTYFEMKNEKLLSKASEPKYQLFVPQLVTGRCATRAFHRSKSHSLDLNISEKLT  
LLPTLYEIHSKTTAYSRLNETQPIDLSGLPLQSSKNSYSFQNPSSFDPMSMLLRFSVAPH  
ETQTRGGGEFQCGLEAASVYSHTNTNLTFLMDLPSAGRSMPASDQEEHLSPLDFLHS  
ANFSLGSIQRLNKRERSKLNLRKQRRRERWLQKQKYSVGLLDHMTLNNEMSTDED  
NEYAEEKDSYICAVCLDVYFNPYMCYPCHHIFCEPCLRTLAKDNPSSTPCPLCRTIISRV  
FFQTELNNATKTFFTKEYLKIQSFQKSNSAKWPLPSCRKAFHLFGGFRRHAAPVTRRQF  
PHGAHRMDYLHFEDDSRGWWFMDMVIYIYSVNWVIGFIVFCFLCYFFFPF

>sp|Q15287|RNPS1\_HUMAN RNA-binding protein with serine-rich domain 1 OS=Homo sapiens GN=RNPS1 PE=1 SV=1

MDLSGVKKKSLLGVKENKKSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRD  
KTRKRRSASSGSSSTRSRSSSTSSSGSSTSTGSSSGSSSSASSRSGSSSTRSSSSSSS  
SGSPSPSRRRHDNRRRSRSKSKPPKRDEKERKRRSPSPKPTKVHIGRLTRNVTKDHIMEI  
FSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDGGQIDGQEITATAVLA  
PWPRPPRRFSPRRMLPPPMWRRSPMRRRSRSPRRRSPVRRRSRSPGRRRHRSRSS  
SNSSR

>sp|P51991|ROA3\_HUMAN Heterogeneous nuclear ribonucleoprotein A3 OS=Homo sapiens GN=HNRNPA3 PE=1 SV=2

MEVKPPPGRPQPDGRRRRRRGEEGHPKEPEQLRKLFIGGLSFETDDSLREHFEKWGT  
LTDCVVMRDPQTKRSRGFGFVITYSCVEEVDAAACARPHKVDGRVVEPKRAVSREDSVKPG  
AHLTVKKIFVGGIKEDTEEYNLRDYFEKYGKIETIEVMEDRQSGKKRGFAFVTDDHDTV  
DKIVVQKYHTINGHNCEVKKALSKQEMQSAGSQRGRGGGSGNFMGRGGNFGGGGNGFRG  
GNFGGRGGYGGGGGSRGSYGGGDGYNFGGDGGNYGGGPGYSSRGGYGGGGPGYGNQG  
GGYGGGGGYDGYNEGGNFGGGNYGGGNYNDFGNYSQQQSNYGP MKGGSFGGRSSGSPY  
GGGYSGGGSGGYGSRRF

>sp|Q99729|ROAA\_HUMAN Heterogeneous nuclear ribonucleoprotein A/B OS=Homo sapiens GN=HNRNPAB PE=1 SV=2

MSEAGEEQPMETTATENGHEAVPEASRGRGWTGAAAGAGGATAAPPSGNQNGAEGDQIN  
ASKNEEDAGKMFVGGLSWDTSKKDLKDYFTKFGEVVDCTIKMDPNTGRSRGFGFILFKDA  
ASVEKVLQKEHRLDGRVIDPKKAMAMKKDPVKKIFVGGGLNPESPTEEKIREYFGEFGEI  
EAIELPMDPKLNKRRGFVFITFKEEEPVKKVLEKKFHTVSGSKCEIKVAQPKEVYQQQY

GSGRGNRNRGRSGGGGGGGGSQSWNQGYGNYWNQGYGYQQGYGPGYGGYDYSPTYGY  
YGYGPGYDYSQGSTNYGKSQRRGGHQNNYKPY

>sp|Q96MS0|ROBO3\_HUMAN Roundabout homolog 3 OS=Homo sapiens GN=ROBO3 PE=1 SV=2

MLRYLLKTLLQMNLFADSLAGDISNSSELLLGFNSSLAALNHTLLPPGDPSLNGSRVGPE  
DAMPRIVEQPPDLLVSRGEPATLPCRAEGRPRPNIEWYKNGARVATVREDPRAHRLLLPS  
GALFFPRIVHGRRARPDEGVYTCVARNYLGAASRNASLEVAVLRDDFRQSPGNVVAVG  
EPAVLECVPPRGHPEPSVSWRKDGARLKEEEGRITIRGGKLMMSHTLKS DAGMYVCVASN  
MAGERESAAAEMVLERPSFLRRPVNQVVLADAPVTFLCEVKGDPPPRLRWRKEDGELPT  
GRYEIRSDHSLWIGHVSAEDEGTYTCVAENSVGRAEASGSLSVHVPPQLVTQPQDQMAAP  
GESVAFQCETKGNPPPAIFWQKEGSQVLLFPSQSLQPTGRFSVSPRGQLNITAVQRGDAG  
YYVCQAVSVAGSILAKALLEIKGASLDGLPPVILQGPANQTLVLGSSVWLPCRVTGNPQP  
SVRWKKDGWLQGDDLQFKTMANGTLYIANVQEMDMGFYSCVAKSSTGEATWSGWLKMRE  
DWGVSPDPPTESPSPPGAPSQPVVTEITKNSITLTWKPNPQTGAAVTSYVIEAFSPAAGN  
TWRTVADGVQLEHTVSGLQPNIIYLFVLVRAVGAWGLSESPVSEPVRTQDSSPSRPVED  
PWRGQQGLAEVAVRLQEPIVLGPRTLQVSWTVDGPVQLVQGFRVSWRVAGPEGGSWTMLD  
LQSPSQSTVLRGLPPGTQIQIKVQAQGEGLGAESLSVTRSIPEEAPSGPPQGVAVALG  
GDGNSSITVSWEPPLPSQQNGVITEYQIWCLGNESRFHLNRSAGWARSAMLRGLVPGLL  
YRTLVAATSAGVGPSAPVLVQLPSPDLEPGLEVAGLAVRLARVLEPAFLAGSGAA  
CGALLLGLCAALYWRKQRKELSHYTASFAYTPAVSFPHSEGLSGASSRPPMGLGPAPYS  
WLADSWPHPSRSPSAQEPRGSCCPSNPDPDDRYNEAGISLYLAQTARGTAAPGEGPVYS  
TIDPAGEELQTFHGGFPQHPSGDLGPWSQYAPPEWSQGDGAKGKVKLLGKPVQMPSLN  
WPEALPPPPPSCELSCEGPEEEEGSSEPEEWCPMPERSHLEPSSSGCLVTPSRRE  
TPSPTPSYGGQSTATLTSPSPDPPQPPTDMPHLHQMPRRVPLGPSSPLSVSQPMLGIREA  
RPAGLGAGPAASPHLSPSPAPSTASSAPGRTWQNGEMTPPLQGPRARFRKKPKALPYRR  
ENSPGDLPPPPLPPEEEASWALELRAAGSMSSLERERSGERKAVQAVPLAAQVRLHPDE  
EAWLPYSRPSFLSRGQTSTCSTAGSNSSRGSSSSRGSRGPGRSRSRSQSRQSQRPGQK  
RREEPR

>sp|Q8N983|RM43\_HUMAN 39S ribosomal protein L43, mitochondrial OS=Homo sapiens GN=MRPL43  
PE=1 SV=1

MTARGTPSRFLASVLHNLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPG  
VVIYVNSRPCCVPRVVAEYLNAGVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFH  
TDNPSIQGQWHPFTNKPTTFRGLRPREVQDPAPAQDTGLRLSAVAPQILLPGWPDPPDLP  
TVDPISSSLTSAPAPMLS AVSCLPIVPALT TVCSA

>sp|Q13405|RM49\_HUMAN 39S ribosomal protein L49, mitochondrial OS=Homo sapiens GN=MRPL49  
PE=1 SV=1

MAATMFRATLRGWRGVRGCGRLRLLSQTQGPPDYPRFVESVDEYQFVERLLPATRIPDP  
PKHEHYPTPSGWQPPRDPNLPYFVRRSRMHNI PVYKDI THGNRQMTVIRKVEGDIWAL  
QKDVEDFLSPLLGKTPVTQVNEVTGTLRIKGYFDQELKAWLLEKGF

>sp|Q4U2R6|RM51\_HUMAN 39S ribosomal protein L51, mitochondrial OS=Homo sapiens GN=MRPL51  
PE=1 SV=1

MAGNLLSGAGRRLWDVWPLACRSFSLGVPRLIGIRLTLPPPKVVDWNEKRAMFGVYDNI  
GILGNFEKHPKELIRGPIWLRGWKGNELQRCIRKRKMVGSRMFADDLHNLNKRIRYLYKH  
FNRHGKFR

>sp|Q96DB5|RMD1\_HUMAN Regulator of microtubule dynamics protein 1 OS=Homo sapiens GN=RMDN1 PE=1 SV=1

MALAARLWRLPFRRGAAPGSRLPAGTSGSRGHCGPCRFRGFVGMGNPGTFKRGLLSAL  
SYLGFETYQVISQAQVHATAKVEEILEQADYLYESGETEKLYQLLTQYKESEDAELLWR  
LARASRDVAQLSRTSEEEKLLVYEALYAKRALEKNESSFASHKWYAICLSDVGDYEGI  
KAKIANAYIIKEHFEKAIELNPKDATSIHLMGIWCYTFAEMPWYQRRIAKMLFATPPSST  
YEKALGYFHRAEQVDPNFYSKNLLLLGKTYLKLHNKLAFLWLMKAKDYPAHTEEDKQIQ  
TEAAQLLTSFSEKN

>sp|Q96G75|RMD5B\_HUMAN Protein RMD5 homolog B OS=Homo sapiens GN=RMND5B PE=1 SV=1

MEQCACVERELDKVLQKFLTYGQHCSLEELLHYVGQLRAELASAALQGTPLSATLSLV  
MSQCCRKIKDTVQLASDHKDIHSSVSRVGKAIDRNFDSEICGVVSDAVWDAREQQQQIL  
QMAIVEHLYQQGMLSVAEELCQESTLNVDLDFKQPFLELNRILEALHEQDLGPALEWAVS  
HRQRLELNSLEFKLHRLHFIRLLAGGPAKQLEALSYARHFQPFARLHQREIQVMMGSL  
VYLRLGLEKSPYCHLLDSSHWAEICETFTRDACSLLGLSVESPLSVSFASGCVLPVLN  
IKAVIEQRQCTGVWNHKLDELPIEIELGMKCWYHSVFACPILRQQTSDSNPPIKLCGHVI  
SRDALNKLINGGKLKCPYCPMEQNPADGKRIIF

>sp|Q9ULX5|RN112\_HUMAN RING finger protein 112 OS=Homo sapiens GN=RNF112 PE=2 SV=2

MPRPALSVTSFCHRLGKRERKQSFMGNSGNSWSHTPFPKLELGLGPQPMAPRELPTCSIC  
LERLRDPISLDCGHDFCIRCFSTHRLPGCEPPCCPECRKICKQKRGLRSLGEKMKLLPQR  
PLPPALQETCPVRAEPLLLVRINASGGLILRMGAINRCLKHPLARDTPVCLLAVLGEQHS  
GKSFLNLHLLQGLPGLESGEGGRPRGGEASLQGCRWGANGLARGIWMWHPFLGKEGKK  
VAVFLVDTGDMSPELSRETRIKLCALTTMLSSYQILSTSQELKDTDLDYLEMVHVHAEV  
MGKHYGMVPIQHLLDLVRDSSHPNKAQGQHVGNIFQRLSGRYPKVQELLQGKRARCCLLP  
APGRRRMNQGHASPGDTHDFRHLGAYVSDVLSAAPQHAKSRCQGYWNEGRAVARGDRR  
LLTGQQLAQEIKNLSGWMGRTGPGFTSPDEMAAQLHDLRKVEAAKREFEYVRQQDVATK  
RIFSALRVLPDTMRNLLSTQKDAILARHGVALLCKGRDQTLAEALQATAKAFMDSYT  
MRFCGHLAAVGGAVGAGLMGLAGGVVGAGMAAAALAAEAGMVAAGAAVGATGAAVVGGGV  
GAGLAATVGCMEKEEDERLLEGDREPLLQEE

>sp|Q2KHN1|RN151\_HUMAN RING finger protein 151 OS=Homo sapiens GN=RNF151 PE=2 SV=1

MGGGYDLNLFASPPDSNFVCSVCHGVLRPARLPCSHIFCKKCILRWLARQKTCPCRKE  
VKRKKVHMNKLKRTIGRLEVCKKNADAGCIVTCPLAHRKGHQDSCPFELTACPNEGCTS  
QVPRGTLAHRHQHCQGSQQRCPGCGATLDPARARHNCYRELHNAWSVRQERRRPLLL  
SLLRRVRWLDQATSVVRRELAELSNFLEEDTALLEGAPQEEAAPEGNVGAEVVGEPR  
NIPCK

>sp|Q96A37|RN166\_HUMAN RING finger protein 166 OS=Homo sapiens GN=RNF166 PE=2 SV=1

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQP  
CLQVPSPLCPLCRLPFDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKV  
QEQMANCPKFVPVPTSQPIPSNIPNRSTFACPYCGARNLDQQLVKHCVESHRSDPNRV  
VCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAAFQAALALSLEN

>sp|Q05823|RN5A\_HUMAN 2-5A-dependent ribonuclease OS=Homo sapiens GN=RNASEL PE=1 SV=2

MESRDHNNPQEGPTSSSGRRAAVEDNHLLIKAVQNEDVDLVQQLLEGGANVNFQEEEGGW  
TPLHNAVQMSREDIVELLLRHGADPVLRRKNGATPFILAAIAGSVKLLKFLSKGADVNE  
CDFYGFATFMEAAYGVKVKALKFLYKRGANVNLRRKTKEDQERLRKGGATALMDAAEKGH  
VEVLKILLDEMADVNAACDNMGRNALIHALLSSDDSDVEAITHLLLDHGADVNVRRGERGK



TPLILAVEKKHLGLVQRLLQEHEIEINDTSDGKTALLLAVELKLLKIAELLCKRGASTD  
CGDLVMTARRNYDHSLVKVLLSHGAKEDFHPPAEDWKPQSSHGAALKDLHRIYRPMIGK  
LKFFIDEKYKIADTSEGGIYLGIFYEKQEVAVKTFCEGSPRAQREVSLQSSRENSHLVTF  
YGSESHRGHLFVCVTLCQTEACLDVHRGEDVENEDEFARNVLSSIFKAVQELHLSCG  
YTHQDLQPQNILIDSKKAHLADFDSIKWAGDPQEVKRDLEDLGRVLVYVVKGSISFE  
DLKAQSNEEVVQLSPDEETKDLIHRLFHPGEHVRDCLSDLLGHPFFWTWESRYRTLNRNVG  
NESDIKTRKSESEILRLLQPGPSEHSKSFDKWTTKINECVMKMKNKFYEKRGNFYQNTVG  
DLLKFIRNLGEHIDEKHKMKLKGDPSTLYFQKTFPDLVIYVYTKLQNTTEYRKHFQTH  
SPNKPQCDGAGGASGLASPGC

>sp|075792|RNH2A\_HUMAN Ribonuclease H2 subunit A OS=Homo sapiens GN=RNASEH2A PE=1 SV=2

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRPVLGPMVYAICYCPLPRLADL  
EALKVADSKTLLSESERERLFAKMEDTDFVGWALDVLSPNLSTSMGRVKYNLNSLSHDT  
ATGLIQYALDQGVNVTQVFVDTVGMPETYQARLQQSFPGIEVTVKAKADALYPVSAASI  
CAKVARDAQVKKWQFVEKLQDLDTDYGSGYPNDPKTKAWLKEHVEPVFGFPQFVRFWSRT  
AQTIIEKAEDVIWEDSASENQELRKITSYFLNEGSQARPRSSHRYFLERGLSATSL

>sp|Q9HAU8|RNPL1\_HUMAN Arginyl aminopeptidase-like 1 OS=Homo sapiens GN=RNPEPL1 PE=2 SV=2

MSATRSAYMEEGVFHFHMEHPVPAYLVALVAGDLKPADIGPRSRVWAEPCLLPTATSKL  
SGAVEQWLSAAERLYGPMWGRYDIVFLPPSFPIVAMENPCLTFI ISSILESDEFLVIDV  
IHEVAHSWFGNAVNTATWEEMWLSEGLATYAQRRI TTETYGAAFTCLETAFRDLALHRQM  
KLLGEDSPVSKLQVKLEPGVNP SHLMNLFYEEKGYCFVYLSQLCGDPQRFDDFLRAYVE  
KYKFTSVVAQDLLDSFLSFFPELKEQSVDCRAGLEFERWLNATGPPLAEPDLSQGSSLTR  
PVEALFQLWTAEPDQAAASASAI DISKWRFTQTALFLDRLLDGSPLPQEVVMSLSKCYS  
SLDSMNAEIRIRWLQIVVRNDYYPDLHRVRRFLESQMSRMYTIPLYEDLCTGALKSFAL  
EVFYQTQGRLHPNLRRAIQILSQGLGSSTEPASEPSTELGKAEADTSDAQALLLGDEA  
PSSAISLRDVNVSA

>sp|Q5GAN6|RNS10\_HUMAN Inactive ribonuclease-like protein 10 OS=Homo sapiens GN=RNASE10  
PE=2 SV=1

MKLNLVQIFFMLLM LLLGLGMGLGLGHMATAVLEESDQPLNEFWSSDSQDKAEATEEGD  
GTQTTETLVLSNKEVVQPGWPEDPILGEDEVGNGKMLRASALFQSNKDYLRLDQTDRECN  
DMMAHKMKEPSQSCIAQYAFIHEDLNTVKAVCN SPVIACELKGGKCHKSSRPFDLTLCCL  
SQPDQVTPNCNYLTSVIKKHIIITCNDMKRQLPTGQ

>sp|P09651|ROA1\_HUMAN Heterogeneous nuclear ribonucleoprotein A1 OS=Homo sapiens  
GN=HNRNPA1 PE=1 SV=5

MSKSESPKEPEQLRKLFIGGLSFETTDESLSHFQWGTLTDCVVMRDPNTRSRGFGFV  
TYATVEEVDAAMNARPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEHH  
LRDYFEQYQKIEVIEIMTDRGSGKKRGFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKA  
LSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGRGGFGGSRGGGGYGG  
GDGYNGFGNDGGYGGGGPGYSGGSRGYGSGGQGYGNQSGYGGSGSYDSYNGGGGGFGG  
GSGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGQYFAKPRNQGGYGG  
SSSSSYGSGRRF

>sp|P22626|ROA2\_HUMAN Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Homo sapiens  
GN=HNRNPA2B1 PE=1 SV=2

MEKTLETVPLERKKREKEQFRKLFIGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKR  
SRGFGFVTFSSMAEVDAAAMARPHSIDGRVVEPKRAVAREESGKPGAHVTVKKLFVGGIK

EDTEEHLRDYFEEYKIDTIEIITDRQSGKKRGFGVTFDDHDPVDKIVLQKYHTINGH  
NAEVRKALSRQEMQEVQSSRSRGGNFSGFSDSRGGGNGFGPGPSNFRGGSDGYGSGRGF  
GDGYNGYGGGPGGNGFGSPGYGGGRGGYGGGPGYGNQGGGYGGYDNYGGGNYGSGNY  
NDFGNYNQPSNYGPMKSGNFGGSRNMGGPYGGGNYGPGSGSGGYGGRSRY

>sp|Q04912|RON\_HUMAN Macrophage-stimulating protein receptor OS=Homo sapiens GN=MST1R  
PE=1 SV=2

MELLPLPLQSFLLLLLLPAKPAAGEDWQCPRTPYAASRDFDVKYVVPFSAGGLVQAMVT  
YEGDRNESAVFVAIRNRLHVLGPDLKSVQSLATGPAGDPGCQTCAACGPGPHGPPGDDTD  
KVLVLDPALPALVSCGSSLQGRCLFDLEPQGTAVHLAAPACLFSAHHNRPDPCDCVAS  
PLGTRVTVVEQGQASYFYVASSLDAAVAASFSPRSVSIRRLKADASGFAPGFVALSVLPK  
HLVSYSIEYVHSFHTGAFVYFLTVQPASVTDDPSALHTRLARLSATEPELGDYRELVDC  
RFAPKRRRRGAPEGGQPYVLRVAHSAPVGAQLATELSIAEGQEVLFVGFVTGKGGPGV  
GPNSVVCAPFIDLLDTLIDEGVERCCESPVHPGLRRGLDFQSPSFCPNPPGLEALSPNT  
SCRHFPLLVSSESFRVDLNFLLGPPVQVTALYVTRLDNVTVAHMGTMGRILQVELVRSL  
NYLLYVSNFSLGDSGQPVQRDVSRLGDHLLFASGDQVFQVPIQGPGCRHFLTCGRCLRAW  
HFMGCGWCGNMCQQKECPGSWQQDHCPPKLTEFHPSGPLRGSTRLTLCGSNFYLHPSG  
LVPEGTHQVTVGQSPCRPLPKDSSKLRPVPRKDFVEEFECELEPLGTQAVGPTNVSLTVT  
NMPPGKHFRVDGTSVLRGFSFMEPVLIAVQPLFGPRAGGTCLTEGQSLSVGTSRAVLVN  
GTECLLARVSEGQLLCATPPGATVASVPLSLQVGAQVPGSWTFQYREDPVVLSISPNCG  
YINSHITICGQHLTSAWHLVLSFHDGLRAVESRCERQLEQQCLRLPEYVVRDPQGWVAG  
NLSARGDGAAGFTLPGFRFLPPHPPSANLVPLKPEEHAIKFEYIGLGAVADCVGINVTV  
GGESCQHEFRGDMVVCPLPPSLQLGQDGAQLQVCVDGECHILGRVVRPGPDGVPQSTLLG  
ILLPLLLLVAALATALVFSYWWRRKQLVLPNNDLASLDQTAGATPLPILYSGSDYRSG  
LALPAIDGLDSTTCVHGASFSDSEDESCVPLLRKESIQLRDLDSALLAEVKDVLIPHERV  
VTHSDRVIGKGHFGVYHGEYIDQAQNRIQCAIKSLSRITEMQQVEAFLREGLLMRGLNH  
PNVLALIGIMLPPEGLPHVLLPYMCHGDLQFIRSPQRNPTVKDLISFGLQVARSMEYLA  
EQKFVHRDLAARNCMLDESFTVKVADFGLARDILDREYYSVQQRHARLPVKWMAESLQ  
TYRFTTKSDVWSFGVLLWELLTRGAPPYRHIDPFDLTHFLAQGRRLPQPEYCPDSLYQVM  
QQCWEADPAVRPTFRVLVGEVEQIVSALLGDHYVQLPATYMNLPSTSEMNRPEQPQF  
SPMPGNVRRPRPLSEPPRPT

>sp|P51449|RORG\_HUMAN Nuclear receptor ROR-gamma OS=Homo sapiens GN=RORC PE=1 SV=2

MDRAPQRQHRASRELLAAKKTHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQR  
CNAAYSCTRQQNCPIDRTSRNRCQHCRLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQK  
QLQQRQQQQQEPVVKTPPAGAQQADTLTYTLGLPDGQLPLGSSPDLPEASACPPGLLKAS  
GSGPSYSNNLAKAGLNGASCHLEYSPERGKAEGRESFYSTGSQLTDPDRCGLRFEHRHPG  
LGELGQGPDSYSGSPSFRSTPEAPYASLTEIEHLVQSVCKSYRETCQLRLEDLLRQRSNIF  
SREEVTGYQRKSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQIVLLKAGAMEV  
VLVRMCRAYNADNRTVFEGKYGMELFRALGCSELISSIFDFSHLSALHFSDEIALY  
TALVLI NAHRPGLQEKRKVEQLQYNLELAFHHHLCKTHRQSLAKLPPKGKLRSLCSQHV  
ERLQIFQHLHPIVVQAAFPLYKELFSTETESPVGLSK

>sp|O95602|RPA1\_HUMAN DNA-directed RNA polymerase I subunit RPA1 OS=Homo sapiens GN=POLR1A  
PE=1 SV=2

MLISKNPWRRLQGISFGMYSAEELKKLSVKSITNPRYLDSLGNPSANGLYDLALGPADS  
KEVCSTCVQDFSNCSGHLGHIELPLTVYNPLLFDKLYLLLRGSCLNCHMLTCPRAVIHLL

LCQLRVLEV GALQAVYELERILNRFLEENPDPSASEIREELEQYTTETIVQNNLLGSQGAH  
VKNVCESKSKLIALFWKAHMNAKRCPHCKTGRSVVRKEHNSKLTITFPAMVHRTAGQKDS  
EPLGIEEAQIGKRGYLTPTSAREHLSALWKNEGFFLNLYLFSGMDDDGMESRFNPSVFFLD  
FLVPPSRYPVSR LGDMFTNGQTVNLQAVMKDVVLIRKLLALMAQEQKLPEEVATPTT  
DEEKDSLIAIDRSFLSTLPGQSLIDKLYNIWIRLQSHVNIVFDSEMDKLMMDKYPGIRQI  
LEKKEGLFRKHHMMGKRVDYAARSVICPDYINTNEIGIPMVFATKLTPQPVTPWNVQEL  
RQAVINGPNVHPGASMVINEDGSRALTASVDMTQREAVAKQLTPATGAPKPQGTKIVCR  
HVKNGDILLNLRQPTLHRPSIQAHRARILPEEKVLRRLHYANCKAYNADFDDGEMNAHFPQ  
SELGRAEAYVLACTDQQYLVPKDGQPLAGLIQDHMVSGASMTTRGCFFTREHYMELVYRG  
LTDKVGRVKLLSPSILKPFPLWTGKQVVSTLLINIIPEDHIPLNLSGKAKITGKAWVKET  
PRSPVGFNPDSMCESQVIREGELLCGVLDKAHYGSSAYGLVHCYEIYGGETSGKVLTC  
LARLFTAYLQLYRGFTLGVEDILVKPKADVQRRIIEESTHCGPQAVRAALNLPEAASYD  
EVRGKWQDAHLGKDQRDFNMIDLKFKEEVNHYSHNEINKACMPFGLHRQFPENSLQMMVQS  
GAKGSTVNTMQISCLLGQIELEGRRPPLMASGKSLPCFEPYEFTPRAGGFVTGRFLTGIK  
PPEFFFHCMAGREGLVDTAVKTSRSGYLQRCIIKHLEGLVVQYDLTVRSDGSVVQFLYG  
EDGLDIPKTQFLPKQFPFLASNYEVIMKSQHLHEVLSRADPKKALHHFRAIKKWQSKHP  
NTLLRRGAFLSYSQKIQEAVKALKLESENRRGRSPGTQEMLRMWEYELDEESRRKYQKKA  
ACPDPSLSVWRPDIYFASVSETFETKVDDYSQEWAAQTEKSYEKSELSDRLRTLQLKW  
QRSLCEPGEAVGLLAAQSIGEPSTQMTLNTFHFAGRGEMNVTLGIPRLREILMVASANIK  
TPMMSVPVLNTKKALKRVKSLKKQLTRVCLGEVLQKIDVQESFCMEEKQNKQFVYQLRFQ  
FLPHAYYQKEKCLRPEDILRFMETRFFKLLMESIKKKNNKASAFRNVNTRRATQRDLDNA  
GELGRSRGEQEGDEEEEGHIVDAEAEEGDADASDAKRKEKQEEVVDYEEEEEEEREGEEN  
DDEDMQEERNPHREGARKTQEQQDEEVGLGTEEDPSLPALLTQPRKPTHSQEPQGPAMER  
RVQAVREIHPFIDDYQYDTEESLWCQVTVKLPMLKINFDMSSLVVS LAHGAVIYATKGIT  
RCLLNETTNKNEKELVLNTEGINLPELFKYAEVLDLRLLYSNDIHA IANTYGIEAALRV  
IEKEIKDVFAVYGIADVPRHLSLVADYMCFEGVYKPLNRFGIRSNSSPLQQMTFETSFQF  
LKQATMLGSHDELRSPSACL VVGKVVRGGTGLFELKQPLR

>sp|O15446|RPA34\_HUMAN DNA-directed RNA polymerase I subunit RPA34 OS=Homo sapiens  
GN=CD3EAP PE=1 SV=1

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTLWLIQAPADFAPECFNGRH  
VPLSGSQIVKGLAGKRHYRVLSSCPQAGEATLLAPSTEAGGLTCASAPQGTLRILEG  
PQQSLSGSPLQPIPASPPPQIPGLRPRFCAFGGNPPVTGPRSALAPNLLTSGKKKKEMQ  
VTEAPVTQEAVNGHGALEVDMALGSPMDVRKKKKKKNNQQLKEPEAAGPVGTEPTVETLE  
PLGVLPSTTKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGME  
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKEKGQAMMEPGTEAMEPVEPEMKPLESP  
GGTMAPQQPEGAKPQAQAALAAPKKKTKKEKQQDATVEPETEVVGPPELPDDLEPQAAPTS  
TKKKKKKKKERGHTVTEPIQPLEPELPGEGQPEARATPGSTKKRKKQSQESRMPETVPQEE  
MPGPPLNSES GEEAPTGRDKKRKQQQQPV

>sp|Q9H1A7|RPB1C\_HUMAN DNA-directed RNA polymerase II subunit RPB11-b2 OS=Homo sapiens  
GN=POLR2J3 PE=3 SV=1

MNAPPAFESFLLFEGEKITINKDTKVPNACLFTMNKEDHTLGNI IKSQLLKDPQVLFAGY  
KVPHPLEHKIIIRVQTTDPDYSQEAFTNAITDLISELSLEERFRTCLLPLRLLP

>sp|Q9H1D9|RPC6\_HUMAN DNA-directed RNA polymerase III subunit RPC6 OS=Homo sapiens  
GN=POLR3F PE=1 SV=1

MAEVKVKVQPPDADPVEIENRIIELCHQFPHGITDQVIQNEMPHIEAQQRAVAINRLLSM  
GQLDLLRSNTGLLYRIKDSQNAGMKGSDNQEKL VYQI IEDAGNKGIWSRDIRYKSNLPL  
TEINKILKNLESKKLIKAVKSAASKKKVYMLYNLQPDRSVTGGAWYSDQDFESEFVEVL  
NQQCFKFLQSKAETARESKQNPMIQRNSSFASSHEVWKYICELGISKVELSMEDIETILN  
TLIYDGKVENTIIAAKEGTVGSDGHMKLYRAVNPIIPPTGLVRAPCGLCPVFDDCHEGG  
EISPSNCIYMTEWLEF

>sp|Q16518|RPE65\_HUMAN Retinoid isomerohydrolase OS=Homo sapiens GN=RPE65 PE=1 SV=3

MSIQVEHPAGGYKKLFETVEELSSPLTAHVTGRIPLWLTGSLLRCPGLFEVGSEPFYHL  
FDGQALLHKFDKFEHVTYHRRFIRTDAYVRAMTEKRIVITEFGTCAFPDCKNIFSRFF  
SYFRGVEVTDNALVNVPVGEDYACTETNFITKINPETLETIKQVDLCNYVSVNGATAH  
PHIENDGTVYNIGNCFGKNFSIAYNIVKIPPLQADKEDPISKSEIVVQFPCSDRFKPSYV  
HSFGLTPNYIVFVETPVKINLKFLLSSWSLWGANYMDCFESNETMGVWLHIADKKRKKYL  
NNKYRTSPFNLFHHINTYEDNGFLIVDLCCWKGFVYNYLYLANLRENWEEVKKNARKA  
PQPEVRRYVPLNIDKADTGKNLVTLNPTTATAILCSDETIWLEPEVLFSGPRQAFEPFQ  
INYQKYCGKPYTYAYGLGLNHFPDRCLKLVKTKETWVWQEPDSYPSEPIFVSHPDAL  
EDDGVVLSVVVSPGAGQKPAYLLILNAKDLSEVARAEVINIPVTFHGLFKKS

>sp|Q9UNE2|RPH3L\_HUMAN Rab effector Noc2 OS=Homo sapiens GN=RPH3AL PE=1 SV=1

MADTIFGSGNDQWVCPNDRQLALRAKLQTGWSVHTYQTEKQRRKQHLSPAEEVAILQVIQ  
RAERLDVLEQQRIGRLVERLETMRNVMGNLSQCLLCGEVLGFLGSSSVFCKDCRKKVC  
TKCGIEASPGQKRPLWLCKICSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPL  
PTEPAEREPRSSETSRIYTWARGRVSSDSDSLSSSSLEDRLPSTGVRDRKGDKPWK  
ESGGSVEAPRMGFTHPPGHLSGCQSSLASGETGTGSADPPGGPRPGLTRRAPVKDTPGRA  
PAADAAAPAGPSSCLG

>sp|P04843|RPN1\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase  
subunit 1 OS=Homo sapiens GN=RPN1 PE=1 SV=1

MEAPAAGLFLLLLLTWAPAGSASSEAPPLINEDVKRTVDLSSHLAKVTAEVVLAHLGG  
GSTSRATSFLLALEPELEARLAHLGVQVKGEDEEENLEVRETKIKGKSGRFFTVKLPVA  
LDPGAISVIVETVYTHVLHPYPTQITQSEKQFVVFEGNHFYFSPYPTKTQTMRVKLASR  
NVESYTKLGNPTRSEDLIDYGPFDRVPAYSQDTFKVHYENNSPFLTITSMTRVIEVSHWG  
NIAVEENVDLKHTGAVLKGPFSTRDYQRQPDSGISSIRSFKITLPAAAQDVYYRDEIGNV  
STSHLLILDDSVEMEIRPRFPLFGGWKTHYIVGYNLPSYEYLYNLGDQYALKMRFVDHVF  
DEQVIDSLTVKIIILPEGAKNIEIDSPYEISRAPDELHYTYLDTFGRPVIIVAYKKNLVEQH  
IQDIVVHYTFNKVLMLEPLLVAIFYILFFTVIIYVRLDFSITKDPAAEARMKVACITE  
QVLTLVNKRIGLYRHFDVTNRYKQSRDISTLNSGKKSLETEHKALTSEIALLSRLKTE  
GSDLCDRVSEMQLDAQVKELVLKSAVEAERLVAGKLKDDTYIENEKLISGKRQELVTKI  
DHILDAL

>sp|P42766|RL35\_HUMAN 60S ribosomal protein L35 OS=Homo sapiens GN=RPL35 PE=1 SV=2

MAKIKARDLRGKKKEELLKQLDDLKVELSQLRVAKVTGGAASKLSKIRVVRKSIARVLT  
INQTQKENLRKFYKGKKYKPLDLRPKKTRAMRRRLNKHEENLTKKQQRKERLYPLRKYA  
VKA

>sp|Q9Y3U8|RL36\_HUMAN 60S ribosomal protein L36 OS=Homo sapiens GN=RPL36 PE=1 SV=3

MALRYPMAVGLNGHKVTKNVSKPRHSRRRGRLTKHTKFVRDMIREVCGFAPYERRAMEL  
LKVSKDKRALFKIKRVGTHIRAKRKREELSNVLAAMRKAANKD

>sp|P62945|RL41\_HUMAN 60S ribosomal protein L41 OS=Homo sapiens GN=RPL41 PE=1 SV=1

MRAKWRKKMRRLKRKRRKMRQRSK

>sp|P05388|RLAO\_HUMAN 60S acidic ribosomal protein P0 OS=Homo sapiens GN=RPLP0 PE=1 SV=1  
MPREDRATWKSNYFLKIIQLDDYPKCFIVGADNVGSKMQQIRMSLRGKAVVLMGKNTM  
MRKAIRGHLENNPALEKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCE  
VTVPAQNTGLGPEKTSFFQALGITTKISRGTEILSDVQLIKTGDKVGASEATLLNMLNI  
SPFSFGLVLIQQVFDNGSIYNPEVLDTTEETLHSRFLEGVRNVASVCLQIGYPTVASVPHS  
IINGYKRVLALSVDYTFPLAEKVKAFLADPSAFVAAAPVAAATTAAPAAAAAPAKVEA  
KEESEESDEDMGFGLFD

>sp|Q9BYD1|RM13\_HUMAN 39S ribosomal protein L13, mitochondrial OS=Homo sapiens GN=MRPL13  
PE=1 SV=1  
MSSFSRAPQQWATFARIWYLLDGKMPPGKLAAMASIRLQGLHKPVYHALSDCGDHVVIM  
NTRHIAFSGNKWEQKVYSSHTGYPGGFRQVTAAQLHLRDPVAIVKLAIYGMLPKNLHRRT  
MMERLHLFPDEYIPEDILKNLVEELPQPRKIPKRLDEYTQEEIDAFPRLWTPPEDYRL

>sp|094763|RMP\_HUMAN Unconventional prefoldin RPB5 interactor 1 OS=Homo sapiens GN=URI1  
PE=1 SV=3  
MEAPTIVETPPDPSPPSAPAPALVPLRAPDVARLREEQEKVVTNCQERIQHWKKVDNDYNA  
LRERLSTLPDKLSYNIMVPFGPFAMPGKL VHTNEVTVLLGDNWFAKCSAKQAVGLVEHR  
KEHVRKTIDDLKKVMKNFESRVEFTEDLQKMSDAAGDIVDIREEIKCDFEFKAKHRIAHK  
PHSKPKTSDIFEADIANDVKSDDLADKELWARLEELERQEELLGELDSKPDTVIANGED  
TTSSEEEKEDRNTNVNAMHQVTDSTHPCHKDVASSEPFSGQVNSQLNCSVNGSSSYHSDD  
DDDDDDDDDDNIDDDGDNDHEALGVGDNSIPTIYFSHTVEPKRVRINTGKNTTLKFSE  
KKEEAKRKRKNSTGSGHSAQELPTIRTPADIYRAFVDVNGEYVPRKSILKSRSRENSVC  
SDTSESSAAEFDDRRGVLRISCEEATCSDTSESILEEPPQENQKKLLPLSVTPEAFSGT  
VIEKEFVSPSLTPPPAIAHPALPTIPERKEVLLEASEETGKRVSKFKAARLQQKD

>sp|075526|RMXL2\_HUMAN RNA-binding motif protein, X-linked-like-2 OS=Homo sapiens  
GN=RBMXL2 PE=1 SV=3  
MVEADRP GKLF IGGLNLETDEKALEAEFGKYGRIVEVLLMKDRETNKS RGF AFVTFESPA  
DAKAAARDMNGKSLDGKAIKVAQATKPAFESSRRGPPPPRSRGRPRFLRGTRGGGGGPRR  
SPSRGGPDDDGGYTADF DL RPSRAPMPMKRGPPPRRVGPPPKRAAPSGPARSSGGGMRGR  
ALAVRGRDGYSGPPRREPLPPRRDPYLGPRDEGYSSRDGYSSRDYREPRGFAPSPGEYTH  
RDYGHSSVRDDCPLRGYSRDRDYGGRDRDYGDHLSRGSHREPFESYGELRGAAPGRGTPP  
SYGGGGRYEEYRGYSPDAYSGGRDSYSSSYGRSDRYSRGRHRVGRPDRLGLSLMERGCPP  
QRDSYSRSGCRVPRGGGRLGGRLERGGGRSRY

>sp|Q5XPI4|RN123\_HUMAN E3 ubiquitin-protein ligase RNF123 OS=Homo sapiens GN=RNF123 PE=1  
SV=1  
MASKGAGMSFSRKSRYLTSDAEKSRVTGIVQEKLNDYLNRIFFSSSEHAPPAATSRKPLN  
FQNLPEHL DQLLQVDNEEEESQGQVEGR LGPSTVVLDHTGGFEGLLL VDDDLLGVIGHSN  
FGTIRSTTCVYKGKWL YEVL ISSQGLMQIGWCTISCRFNQEEGVGDTHNSYAYDGNVRK  
WNVTTTNYGKAWAAGDIVSCLIDLDDGTL SFCLNGVSLGTAFENLSRGLGMAYFPAISLS  
FKESVAFNFGSRPLRYPVAGYRPLQDPPSADLVRAQRLLGCFRAVLSVELDPVEGRLLDK  
ESSKWRLRGQPTVLLTLAHIFHHFAPLLRKVYLVEAVLMSFLLGIVEKGTPTQAQSVVHQ  
VLDLLWLFMEDYEVQDLKQLMMSLLRLYRFSPIVPDLGLQIHYLRLTIAILRHEKSRKF  
LLSNVLFVDLRSVFFYIKSPLRVEEAGLQELIPTTWWPHCSSREGKESTEMKEETAER  
LRRRAYERGCQRLRKRIEVVEELQVQILKLLDNKDDNGGEASRYIFLTKFRKFLQENAS

GRGNMPMLCPPEYMCFLHRLISALRYYWDEYKASNPASFSEEAYIPPQVFYNGKVDYF  
DLQRLGGLLSHLRKTLDLASKANIVIDPLELQSTAMDDLDEDEEPAPAMAQRPMQALA  
VGGPLPLPRPGWSSPTLGRANRFLSTAASLMTPRRPLSTSEKVKVRTLSVEQRTREDI  
EGSHWNEGLLLGRPPEEQPLTENSLLVLDGAVMMYNLSVHQQLGKMVGVSDDVNEYA  
MALRDTEDKLRRCPKRRKDILAEKTSQKVFSEKLDHLSRRLAWVHATVYSQEKMLDIYW  
LLRVCLRTIEHGDRTGSLFAFMPEFYLSVAINSYSALKNYFGPVHSMEEPLGYEETLTRL  
AAILAKHFADARIVGTDIRDLSMQALASYVCYPHSLRAVERIPEEQRIAMVRNLLAPYEQ  
RPWAQTNWILVRLWRGCGFGYRYTRLPHLLKTKLEDANLPSLQKPCSTLLQQHMADLLQ  
QGPDVAPSFLNSVLNQLNWFSEFIGMIQEIQQAAERLERNFVDSRQLKVCATCFDLSVS  
LLRVLEMTITLVPEIFLDWTRPTSEMLLRRLAQLLNQVLNRVTAERNLFDRVVTLRPLGL  
ESVDHYPILVAVTGILVQLLVRGPASEREQATSVLLADPCFQLRSICYLLGQPEPPAPGT  
ALPAPDRKRFSLSQSYADYISADELAQVEQMLAHLTSASAQAAAASLPTSEEDLCPICYAH  
PISAVFQPCGHKSCKACINQHLMNNKDCFFCKTTIVSVEDWEKGANTSTTSSAA

>sp|Q96EQ8|RN125\_HUMAN E3 ubiquitin-protein ligase RNF125 OS=Homo sapiens GN=RNF125 PE=1  
SV=4

MGSVLSTDSGKSAPASATARALERRRDELPVTSFDCAVCLEVLHQPVTRCGHVFCRSC  
IATSLKNNKWTCPCRAYLPSEGVPATDVAKRMKSEYKNCAECDTLVCLSEMRAHIRTCQ  
KYIDKYGPLQELEETAARCVCPFCQRELYEDSLDHCITHRSERRPVFCPLCRLIPDEN  
PSSFSGLIRHLQVSHTLFYDDFIDFNIIEEALIRRVLDRSLLEYVNHSNTT

>sp|Q8TEB7|RN128\_HUMAN E3 ubiquitin-protein ligase RNF128 OS=Homo sapiens GN=RNF128 PE=1  
SV=1

MGPPPAGVSCRGGCGFSRLLAWCFLLALSPQAPGSRGAEAVWTAYLNVSWRVPHTGVNR  
TVWELSEEGVYGQDSPLEPVAGVLVPPDGPALNACNPHTNFTVPTVWGSTVQVSWLALI  
QRGGGCTFADKIHAYERGASGAVIFNFPGRNEVIPMSHPGAVDIVAIMIGNLKGTKIL  
QSIQRGIQVTMVEVGKKHGPVWNHYSIFFVSVSFFIITAATVGYFIFYSARRLRNARAQ  
SRKQRQLKADAKKAIGRLQLRTLKQGDKEIGPDGDSCAVCIELYKPNDLVRIILTCNHIFH  
KTCVDPWLLHRTCPMCKCDILKALGIEVDVEDGSVSLQVPVSNEISNSASSHEEDNRSE  
TASSGYASVQGTDEPPLEEHVQSTNESLQLVNHEANSVAVDVIPHDNPTFEEDETPNQE  
TAVREIKS

>sp|Q9NTX7|RN146\_HUMAN E3 ubiquitin-protein ligase RNF146 OS=Homo sapiens GN=RNF146 PE=1  
SV=1

MMAGCGEIDHSINMLPTNRKANESCSNTAPSLTVPECAICLQTCVHPVSLPCKHVFICYLC  
VKGASWLGKRCALCRQEIPEDFLDKPTLLSPEELKAASRGNGEYAWYYEGRNGWWQYDER  
TSRELEDAFSKGGKNTTMLIAGFLYVADLENMVQYRRNEHGRRRIKRDIIIDIPKKGAVAG  
LRLCDANTVNLARESSADGADSVSAQSGASVQPLVSSVRPLTSVDGQLTSPATPSPDAS  
TSLEDSFAHLQLSGDNTAERSHRGEGEEDHESPSSGRVPAPDTSIEETESDASSDSEDVS  
AVVAQHSLTQQRLLVSNANQTVPDRSDRSGTDRSVAGGTVSVSVRSRRPDGQCTVTEV

>sp|Q8N4F7|RN175\_HUMAN RING finger protein 175 OS=Homo sapiens GN=RNF175 PE=1 SV=2

MAAGTAARKAAPVLEAPPQQEQLSHTKLSAEDTWNLQQERMYKMHRGHDSMHVEMILIFL  
CVLVIAQIVLVQWRQRHGRSYNLVTLLQMWWVPLYFTIKLYWWRFLSMWGMFSVITSYIL  
FRATRKPLSGRTPRLVYKWFLLIYKLSYAFGVVGYLAIMFTMCGFNLFKIKARDSMDFG  
IVSLFYGLYYGVMGRDAEICSIDYMASTIGFYSVSRPLPTRSLSDNICAVCGQKIIVELDE  
EGLIENTYQLSCNHVFHEFCIRGWCIVGKKQTCPYCKEKVDLKRMINPWERHFLYGI  
LDWLRYLVAWQPVVIGIVQGIISLGL

>sp|Q495C1|RN212\_HUMAN Probable E3 SUMO-protein ligase RNF212 OS=Homo sapiens GN=RNF212 PE=2 SV=1

MANWVFCNRCFQPPHRTSCFSLTNCGHVYCDACLKGKKNECLICKAPCRTVLLSKHTDA  
DIQAFMSIDSLCKYSRETSQILEFQEKHRKRLAFYREKISRLEESLRKSVLQIEQLQ  
SMRSSQQTAFSTIKSSVSTKPHGCLLPHSSAPDRLESMEVDLSPSPIRKSEIAAGPARI  
SMISPPQDGRMGPHLTASFCEIPWLTLSKPPVPGECVISRGSPCFCIDVCPHWLLLLAFS  
SGRHGELTNSKTLPIYAEVQRAVLFPFQQAEGTLDTFRTPAVSVVPLCQFERKKSF

>sp|Q9Y6U7|RN215\_HUMAN RING finger protein 215 OS=Homo sapiens GN=RNF215 PE=3 SV=2

MGPAARPALRSPPPPPPPPSPLLLLPLPLWLGLAGPAAADGSEPAAGAGRGGARAV  
RVDVRLPRQDALVLEGVRIGSEADPAPLLGGRLLLMDIVDAEQEAPVEGWIAVAYVGKEQ  
AAQFHQENKSGPQAYPKALVQMMRRALFLGASALLLLILNHNVVRELDISQLLRPVIV  
LHYSSNVTKLLDALLQRTQATAEITSGESLSANIEWKLTWTTCLGSKDGYGGWQDLVCL  
GGSRAQEKGKPLQQLWNAILLVAMLLCTGLVVQAQRQASRQSQRELGGQVDFKRRVVRRL  
ASLKTRRCRLSRAAQLPDPGAETCAVCLDYFCNKQWLRVLPCKHEFHRDCVDPWMLMLQQ  
TCPLCKFNVLGNNRYSD

>sp|Q5W0B1|RN219\_HUMAN RING finger protein 219 OS=Homo sapiens GN=RNF219 PE=1 SV=1

MAQTVQNVTLSLTLPITCHICLGKVRQPVICINNHVFCISICIDLWLKNSQCPACRVPIT  
PENPCKEIIIGTSESEPMLSHTVRKHLRKTRLELLHKEYEDEIDCLQKEVEELKSKNLSL  
ESQIKTILDPLTLVQGNQNEKHLVTDNPSKINPETVAEWKKLRTANEIYEKVKDDVDK  
LKEANKKLKLENGGLVRENRLKAEVDNRSPQKFGFAVAALQSKVEQYERETNRLKKAL  
ERSDKYIEELESQAQLKNSSEEKEAMNSICQTALSADGKSGKSEEDVVSKNQGDSARK  
QPGSSTSSSSHLAKPSSSRLCDTSSARQUESTSKADLNCSKNKDLYQEQQVEVMDVTDTS  
DYLTEREWGNKPSDCVPYKDEELYDLPAPCTPLSLCLQLSTPENRESSVVQAGGSKHS  
NHLRKLVFDDFCSSNVSNKDSSEDDISRSENEKKSECFSSPKTGFWDCCSTSYAQNDF  
ESSEGNTIANSVGEISSKLEKSGLCLSKRLNSIRSFEMNRTRTSSEASMDAAYLDKISE  
LDSMMESDNSKSPCNGFKSLDLDGLSKSSQGSEFLEEDKLEEKTELNLKSGSLTNDQ  
LENGSEWKPTSFFLLSPSDQEMNEDFSLSHSSCPVTNEIKPPSCLFQTEFSQGILLSSSH  
RLFEDQRFGSSLFKMSSEMHSLSLHNLQSPWSTSFVPEKRKNVNVQSTKRKIQSSLSASP  
SKATKS

>sp|A6NCQ9|RN222\_HUMAN RING finger protein 222 OS=Homo sapiens GN=RNF222 PE=3 SV=1

MSEGESKDSGSECPVCYEKFRDLEGASRTLSCGHVFCCHDCLVKYLLSTRVDGQVQRTL  
CPICRYVTFLSKKSSRWPSMLDKSSQTLAVPVGLPSVPPLDSLGTNPLAASSPAWRPPP  
GQARPPGSPGSAQLPLDLLPSLPRESQIFVISRHGMPLGEQDSVLPRRSLAELSEASLA  
PRSARAFCCRSRALLITLIAVVAVVAAILPWVLLVRKQA

>sp|P83881|RL36A\_HUMAN 60S ribosomal protein L36a OS=Homo sapiens GN=RPL36A PE=1 SV=2

MVNVPKTRRTFCKKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKA  
KTTKKIVLRLECVEPNCRSKRMLAIKCKHFELGGDKRKGQVIQF

>sp|P63173|RL38\_HUMAN 60S ribosomal protein L38 OS=Homo sapiens GN=RPL38 PE=1 SV=2

MPRKIEEIKDFLLTARRKDAKSVKIKKNKDNVFKVRCRSLYTLVITDKEKAELKQSL  
PPGLAVKELK

>sp|P36578|RL4\_HUMAN 60S ribosomal protein L4 OS=Homo sapiens GN=RPL4 PE=1 SV=5

MACARPLISVYSEKGESSGKNVTLPVFKAPIRPDIVNFVHTNLKNNRQPYAVSELGH  
QTSAESWGTGRAVARIPRVGGGTHRSQGAGFNMCRGGRMFAPTKTWRRWHRRVNTTQK  
RYAICSALAASALPALVMSKGHRIEEVPELPLVVEDKVEGYKKTKEAVLLLKKLAWNDI

KKVYASQRM RAGKGKMRNRRRIQRRGPCIIYNEDNGIIKAFRNIPGITLLNVSKLNILKL  
APGGHVGRFCIWTESAFRKLDELYGTWRKAASLKSNNLPMHKMINTDL SRILKSPEIQR  
ALRAPRKKIHRRVLKKNPLKNLRIMLKNPYAKTMRRNTILRQARNHKL RVDKAAAAAA  
LQAKSDEKAAVAGKKPVVGKKGKKAAGVKKQKKPLVGKKAATKKPAPEKKPAEKKPTT  
EEKPAA

>sp|P05387|RLA2\_HUMAN 60S acidic ribosomal protein P2 OS=Homo sapiens GN=RPLP2 PE=1 SV=1  
MRYVASYLLAALGGNSSPSAKDIKKILDSVGIEADDDRLNKVISELNGKNIEDVIAQGIG  
KLASVPAGGAVAVSAAPGSAAPAAGSAPAAAEKKDEKKEESEESDDDMGFGFLD

>sp|Q9BYD3|RM04\_HUMAN 39S ribosomal protein L4, mitochondrial OS=Homo sapiens GN=MRPL4  
PE=1 SV=1

MLQFVRAGARAWLRPTGSQGLSSLAEEAARATENPEQVASEGLPEPVL RKVELPVPTHRR  
PVQAWVESLRGFEQERVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAEV  
RGGGRKPWPQKGTGRARHGSIRSPLWRGGGVAHGPRGPTSYYYMLPMKVRALGLKVALTV  
KLAQDDLHIMDSLELPTGDPQYLTEL AHYRRWGDSVLLVDLTHEEMPQSIVEATSRLKTF  
NLIPAVGLNVHSM LKHQTLVLTLPTVAFLEDKLLWQDSRYRPLYPFSLPYSDFP RPLPHA  
TQGPAATPYHC

>sp|Q9NVW2|RNF12\_HUMAN E3 ubiquitin-protein ligase RLIM OS=Homo sapiens GN=RLIM PE=1 SV=3  
MENSDSNDKSGDQSAAQRRSQMDRLDREEAFYQFVNNLSEEDYRLMRDNNLLGTPGEST  
EEELLRRLQQIKEGPPPPQNSDENRGGDSSDDVSNGDSIIDWLSVRQTGN TTRSGQRGNQ  
SWRAVSRTNPNSGDFRFSLEINVNRNNGSQSENENEPSARRSSGENVENNSQRQVENPR  
SEST SARPSRSE RNSTEALTEVPPTRGQRRARSRSPDHRRTARAERSRSP LHPMSEIPR  
RSHHSISSQTFEHLVNETEGSSRTRHHVTLRQQISGPELLSRGLFAASGTRNASQGAGS  
SDTAASGESTGSGQRPTIVLDLQVRRVRPGEYRQRDSIASRTRSRSQTPNNTVTYESER  
GGFRRTFSR SERAGVRTYVSTIRIPIRRILNTGLSETTSVAIQTMLRQIMTGF GELSYFM  
YSDSDSEPTGSVSNRNMERAESRSGRGGSGGSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS  
SGGESSETSSDLFE GSNEGSSSGSSGARREGRHRAVPTFDESGSLPFLSLAQFFLLNED  
DDDQPRGLTKEQIDNLAMRSFGENDALKTCSVCITEYTEGNKLRKLPCSHEYHVHCIDRW  
LSENSTCPICRRAVLASGNRESVV

>sp|Q9BY78|RNF26\_HUMAN RING finger protein 26 OS=Homo sapiens GN=RNF26 PE=2 SV=1

MEAVYLVVNGLGLVDVLT LVLNLFLVSSLLASLAWLLAFVYNLPHTVLTSL LHLGRG  
VLLSLLALIEAVVRFTCGGLQALCTLLYSCCSGLESLKLLGHLASHGALRSREILHRGVL  
NVVSSGHALLRQACDICA IAMSLVAYVINSLVNICLIGTQNLFSLVLALWDAVTGPLWRM  
TDVVA AFLAHISSAVAMA ILLWTPCQLALELLASAARLLASFVLVNL TGLVLLACVLAV  
TVTVLHPDFTLR LATQALS QLHARPSYHRLREDVMRLSRLALGSEAWRRVWSRSLQLASW  
PNRGGAPGAPQGDP MRVFSVRTRRQDTLPEAGRSEAE EEEARTIRVTPVRGRERLNEEE  
PPGGQDPWKLLKEQEERKKCVICQDQSKTVLLLPCRHLCLCQACTEILMRHPVYHRNCPL  
CRRGILQTLNVYL

>sp|Q68DV7|RNF43\_HUMAN E3 ubiquitin-protein ligase RNF43 OS=Homo sapiens GN=RNF43 PE=1  
SV=1

MSGGHQLQLAALWPWLLMATLQAGFGRTGLVLA AVESERSAEQKAIIRVIPLKMDPTGK  
LNLTLG VFAGVAEITPAEGKLMQSHPLYLCNASDDDNLEPGFISIVKLES PRRAPRPCL  
SLASKARMAGERGASAVLFDITEDRAAAEQ LQQPLGLTWPVVLIWGNDAEKLMEFVYKNQ  
KAHVRIELKEPPAWPDYDVWILMTVVGTFIV IILASVLRIRCRPHSRPDPLQQR TAWAI  
SQLATRRYQASCRQARGEPD SGSSCSSAPVCAICLEEFSEGQELRVISCLHEFH RNCVD



PWLQHRTCLCMFNITEGDSFSQSLGSPRSYQEPGRRLHLIRQHPGHAHYHLPAAYLLG  
PSRSAVARPPRPGLFSPQEPGMGPRHHRFPRAAHPRAPGEQQRLAGAHQHPYAQQWGLSH  
LQSTSQHAAACPVPLRRARPPDSSSGSGESYCTERSGYLADGPASDSSSGPCHGSSSDSVV  
NCTDISLQGVHGSSTFCSSLSDFDPLVYCSPKGDPPQVDMQPSVTSRPSRLDSVVPTG  
ETQVSSHVHYHRHRHHYKKRFQWHGRKPGPETGVPQSRPPIPTQPQPEPPSPDQQVTR  
SNSAAPSGRLSNPQCPRALPEPAPGPVDASSICPSTSSSLFNLQKSSLSARHPQRKRRGGP  
SEPTPGSRPQDATVHPACQIFPHYTPSVAYPWSPEAHPLICGPPGLDKRLLPETPGPCYS  
NSQPVWLCLTPRQPLEPHPPGEGPSEWSSDTAEGRPCPYPHCQVLSAQPGSEEELEELCE  
QAV

>sp|Q9Y252|RNF6\_HUMAN E3 ubiquitin-protein ligase RNF6 OS=Homo sapiens GN=RNF6 PE=1 SV=1

MNQSRSRSDGGSEETLPQDHNHENERRWQERLHREEAYYQFINELNDEDYRLMRDHNL  
LGTPGEITSEELQQLDGVKEQLASQPDLRDGTNYRDSEVPRESSHEDSLEWLNTFRRT  
GNATRSGQNGNQTWRAVSRTNPNGEFRFSLEIHVNHENRGFEIHGEDYTDIPLSDSNRD  
HTANRQQRSTSPVARRTRSQTSVNFGSSSNIPRTRLASRGQNPAGSFSTLGRLRNGIG  
GAAGIPRANASRTNFSSTNQSGGSELQREGQRFGAAHVWENGARSNTVTRNTNQRLEP  
IRLRSTNSRSRSPIQRQSGTVYHNSQRESRPVQQTTRRSVRRRGRTRVFLEQDRERERR  
GTAYTPFSNSRLVSRTVEEGEESSRSSTAVRRHPTITLDLQVRRIRPGENRDRDSIANR  
TRSRVGLAENTVTIESNSGGFRRTISRLESGIRTYVSTITVPLRRISENELVEPSSVAL  
RSILRQIMTGFGESSLMEADSESELQRNGQHLPDMHSELSNLGTDNNRSQHREGSSQDR  
QAQGDSTEMHGENETTQPHTRNSDSRGGRLRNPNNLVETGTLPILRLAHFFLLNESDDD  
DRIRGLTKEQIDNLSTRHYEHNSIDSELGKICSVCSIDYVTGNKLRLPCMHEFHIHCID  
RWLSENCTCPICRQPVLGSNIANN

>sp|Q6P5S7|RNK\_HUMAN Ribonuclease kappa OS=Homo sapiens GN=RNASEK PE=2 SV=2

MGWLRPGPRPLCPPARASWAFSHRFPSPAPRRSPTPFFMASLLCCGPKLAACGIVLSAW  
GVIMLIMLGIFFNHSAVLIEDVPFTEKDFENGPNQNIYNLYEQVSYNCFIAAGLYLLLGG  
FSFCQVRLNKRKEYMVR

>sp|Q5VYX0|RNLS\_HUMAN Renalase OS=Homo sapiens GN=RNLS PE=1 SV=1

MAQVLIVGAGMTGSLCAALLRRQTSGPLYLAVWDKAEDSGGRMTTACSPHNPQCTADLGA  
QYITCTPHYAKKHQRFYDELLAYGLRPLSSPIEGMVMKEGDCNFVAPQGISSIIKHLYK  
ESGAEVYFRHRVTQINLRDDKWEVSKQTGSPEQFDLIVLTMVPVEILQLQGDITTLISEC  
QRQQLEAVSYSSRYALGLFYEAGTKIDVPWAGQYITSNPCIRFVSIDNKKRNIESSEIGP  
SLVIHTTVPFGVTYLEHSIEDVQELVFQQLLENILPGLPQPIATKCQKWRHSQVTNAAANC  
PGQMTLHHKPFLACGGDGTQSNFDGCITSALCVLEALKNYI

>sp|P05386|RLA1\_HUMAN 60S acidic ribosomal protein P1 OS=Homo sapiens GN=RPLP1 PE=1 SV=1

MASVSELACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNIGSLI  
CNVGAGGPAPAAGAAPAGGPAPSTAAAPAEKKVEAKKEESEESDDDMGFGLFD

>sp|Q86X10|RLGPB\_HUMAN Ral GTPase-activating protein subunit beta OS=Homo sapiens  
GN=RALGAPB PE=1 SV=1

MYSEWRSLHLVIQNDQGHTSVLHSPESVGREVANAVVRPLGQVLGTPSVAGSENLLKTD  
KEVKWTMEVICYGLTLPDGETVKYCVDVYTDWIMALVLPKDSIPLPVIKEPNQYVQTIL  
KHLQNLVPRQEQGSSQIRLCLQVLRAIQKLARESSLMARETWEVLLLFLQINDILLAP  
PTVQGGIAENLAEKLGVLFEVWLLACTRCFPTPPYWKTAKEMVANWRHHPAVVEQWSKV  
ICALTSRLLRFTYGPSFPAFKVPDEDASLIPPEMDNECVAQTWFRFLHMLSNPVDLSNPA  
IISSTPKFQEQLNVSGMPQELNQYPCLKHLPLQIFFRAMRGISCLVDAFLGISRPRSDSA

PPTPVNRLSMPQSAAVSTTPPHNRRHRAVTVNKATMKTSTVSTAHASKVQHQTSSSTSPLS  
SPNQTSSSEPRPLPAPRRPKVNSILNLFGSWLFDAAFVHCKLHNGINRDSSMTAITTQASM  
EFRKGSQMSDSTMVSNPMFDASEFPDNYEAGRAEACGTLCRIFCSKKTGEEILPAYLSR  
FYMLLIQGLQINDYVCHPVLASVILNSPPLFCCDLKGDVVVPYFISALETILPDRELSK  
FKSYVNPTELRRSSINILLSLLPLPHHFGTVKSEVVLEGKFSNDDSSSYDKPITFLSLKL  
RLVNILIGALQTETDPNNTQMILGAMLNIVQDSALLEAIGCQMEMGGGENNLKSHSRTNS  
GISSASGGSTEPTTPDSERPAQALLRDYALNTDSAAGLLIRSIHLVTQRLNSQWRQMSI  
SLAALELLSGLAKVKVMVDSGDRKRAISSVCTYIVYQCSRPAPLHSRDLHSMIVAFAFQCL  
CVWLTEHPDMLDEKDCLKEVLEIVELGISGSKSKNNEQEVKYKGDKEPNPASM RVKDAAE  
ATLTCIMQLLAGFPSPSPGASPCSLVNETTLIKYSRLPTINKHSFRYFVLDNSVILAMLE  
QPLGNEQNDFFPSTVLVRGMSGRLEWAQQLCLLPRGAKANQKLFVPEPRPVKNDVGFK  
YSVKHRPFPEEVDKIPFVKADLSIPDLHEIVTEELEERHEKLRSGMAQQIAYEIHLEQQS  
EEELQKRSFPDPVTDCKPPPPAQEFQTARLFLSHFGFLSLEALKEPANSRLPPHLIALDS  
TIPGFFDDIGYLDLLPCRPFDTVFIFYMKPGQKTNQEILKNVSSRTVQPHFLEFLSLG  
WSVDVGRHPGWTGHVSTWSINCCDDGEGSQQEVISSSEDIGASIFNGQKKVLYADALTE  
IAFVVPSPVESLTDLSLESNISDQSDSNMDLMPGILKQPSLTLELFPNHTDNLNSSQRLS  
PSSMRKLPQGRPVPLGPETRVSVVWVERYDDIENFPLSELMTETSTGVETTANSSTSL  
RSTTLEKEVPVIFIHPLNTGLFRIKIQQATGKFNMVIPLVDGMIVSRRALGFLVRQTVIN  
ICRRKRLESDSYSPPHVRRKQKITDIVNKYRNKQLEPEFYTSLFQEVLKNCSS

>sp|Q9H0U6|RM18\_HUMAN 39S ribosomal protein L18, mitochondrial OS=Homo sapiens GN=MRPL18  
PE=1 SV=1

MALRSRFWGLFSVCRNPGCRFAALSTSSEPAAKPEVDPVENEAVAPEFTNRNPRNLELLS  
VARKERGWRVTVPFSREFWHRLRVIRTQHHVEALVEHQNGKVVSASTREWAIKKHLSTR  
NVVACESIGRVLAQRCLEAGINFMVYQPTPWEAASDSMKRLQSAMTEGGVVLREPQRIYE

>sp|Q9BYC9|RM20\_HUMAN 39S ribosomal protein L20, mitochondrial OS=Homo sapiens GN=MRPL20  
PE=1 SV=1

MVFLTAQLWLRNRVTDTRYFRIQEV LKHARHFRGRKNRCYRLAVRTVIRAFVKCTKARYLK  
KKNMRTLWINRITAASQEHGLKYPALIGNLVKCQVELNRKVLADLAIYEPKTFKSLAALA  
SRRRHEGFAAALGDGKEPEGIFSRVVQYH

>sp|Q9BYC8|RM32\_HUMAN 39S ribosomal protein L32, mitochondrial OS=Homo sapiens GN=MRPL32  
PE=1 SV=1

MALAMLVLVVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPWPALAVQGPAMFTEPAN  
DTSGSKENSSLLDSIFWMAAPKNRRTIEVNRCCRNPQKLIKVKNNIDVCECGHLKQKH  
VLCAYCYEKVKETAIEIRRIQIGKQEGGPFKAPTITETVVLTYGETPSEQDQGKRIIERDRK  
RPSWFTQN

>sp|Q9P0J6|RM36\_HUMAN 39S ribosomal protein L36, mitochondrial OS=Homo sapiens GN=MRPL36  
PE=1 SV=1

MANLFIRKMVNPLLYLSRHTVKPRALSTFLFGSIRGAAPVAVEPGAAVRSLLSPGLLPHL  
LPALGFKNKTVLKKRCKDCYLVKRRGRWYVYCKTHPRHKQRQM

>sp|Q9HD33|RM47\_HUMAN 39S ribosomal protein L47, mitochondrial OS=Homo sapiens GN=MRPL47  
PE=1 SV=2

MAAAGLALLCRRVSSALKSSRSLITPQVPACTGFFLSLLPKSTPNVTSFHQYRLLHTTSL  
RKGLEEFFDDPKNWGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAK  
RQRLPMPSPERLDKVVDSMDALDKVVQEREDALRLQTGQERARPGAWRRDIFGRIIWHK

FKQWVIPWHLNKRYNKRFFALPYVDHFLRLEREKRARIKARKENLERKKAKILLKKFPH  
LAEAQKSSLV

>sp|Q6P161|RM54\_HUMAN 39S ribosomal protein L54, mitochondrial OS=Homo sapiens GN=MRPL54  
PE=1 SV=1

MATKRLFGATRTWAGWGAWELLPATSGRLLARDYAKKPVMKGAKSGKGAVTSEALKDPD  
VCTDPVQLTTYAMGVNIYKEGQDVPLKPD AEYPEWLFEMNLGPPKTL EELDPESREYWRR  
LRKQNIWRHNRLSKNKRL

>sp|Q96TC7|RMD3\_HUMAN Regulator of microtubule dynamics protein 3 OS=Homo sapiens GN=RMDN3  
PE=1 SV=2

MSRLGALGGARAGLG LLLGTAAGLGFLCLLYSQRWKRTQRHGRSQSLPNSLDYTQTSDPG  
RHVMLLRAPVGGAGDASVLPSPREGQEKVLDRLDFVLTSLVALRREVEELRSSLRGLAG  
EIVGEVRCHMEENQVRARRRRFPFVRERSDSTGSSSVYFTASSGATFTDAESEGGYTTAN  
AESDNERDSDKESEDEGEDEVSCETVKMGRKDSLDEEEAASGASSALEAGGSSGLEDVLP  
LLQQADELHRGDEQ GKREGFQLLLNNKL VYGSQRQDFLWRLARAYSDMCELTEEVSEKKS  
YALDGKEEAEEAALEKGDSEADCHLWYAVLCGQLAEHESIQRRTQSGFSFKEHVDKAIALQP  
ENPMAHFLLRWCYQVSHLSWLEKKTATALL ESPLSATVEDALQSFLKAEELQPGFSKAG  
RVYISKCYRELGNSEARWWMKLAL ELPDVTKEDLAIQKDLEELEVILRD

>sp|Q9H9A7|RMI1\_HUMAN RecQ-mediated genome instability protein 1 OS=Homo sapiens GN=RMI1  
PE=1 SV=3

MNVT SIALRAETWLLAAWHVKVPPMWLEACINW IQEENNNVNLSQAQM NKQVFEQWLLTD  
LRDLEHPLL PDGILEIPKGELNGFYALQINSLVDVSQPAYSQIQKLRGKNTTNDLVTAEA  
QVTPKPWEAKPSRMLMLQLTDGIVQIQGMEYQPIPI LHSDLPPGTKIL IYGNISFRLGVL  
LLKPENVKVLGGEVDALLEEYAEKVLARLIGEPDLVSVIPNNSNENIPRVTDVLDPAL  
GPSDEELLASLDENDEL TANNDTSSERCFTTGSSSNTIPTRQSSFEPEFVISPRPKEEPS  
NLSIHVMDGELDDFSLEEALLLEETVQKEQMETKELQPLTFNRNADRSIERFSHNPNTTN  
NFSLTCKNGNNNWEKVNSEQMTNEDKSF GCPSVRDQNRSIFS VHCNVPLAHDFTNKEKN  
LETDNKIKQTSSSDSHSLNNKILNREV VNYVQKRNSQISNENDCNLQSCSLRSSENSINL  
SIAMDLYSPPFVYLSVLMASKPEVTTVKVKAFIVTLTGNLSSSGGIWSITAKVSDGTAY  
LDVDFVDEILTS LIGFSVPEMKQSKKDPLQYQKFLEGLQKCQRDLIDL CCLMTISFNPSL  
SKAMVLALQDVNMEHLENLKKRLNK

>sp|Q9BV68|RN126\_HUMAN E3 ubiquitin-protein ligase RNF126 OS=Homo sapiens GN=RNF126 PE=1  
SV=1

MAEASPHPGRYFCHCCSVEIVPRLPDYICPRCESGFIEELPEETRSTENG SAPSTAPTDQ  
SRPPLEHVDQHFLFTLPQGYGQFAFGIFDDSF EIPTFP PGAQADDGRDPESRRERDHPSRH  
RYGARQP RARLTTRRATGRHEGVPTLEGIIQQLVNGIITPATIPSLGPWGVLHSPMDYA  
WGANGLD AIIITQLLNQFENTGPPPADKEKIQALPTVPVTEEHVGSGLECPVCKDDYALGE  
RVRQLPCNHLFHDGCIVPWLEQHDSCPVCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSS  
SPSNENATWSPLGRPQPPRPLSNLTL

>sp|Q8WU17|RN139\_HUMAN E3 ubiquitin-protein ligase RNF139 OS=Homo sapiens GN=RNF139 PE=1  
SV=1

MAAVGPPQQQVRMAHQVWAALEVALRVPCLYIID AIFNSYPDSSQSRFCIVLQIFLRLF  
GVFASSIVLILSQRSLFKFYTYSSAFLLAATSVLVNYYASLHIDFYGAYNTSAFGIELLP  
RKGPSLWMALIVLQLTFGIGYVTL LQIHSIYSQLIILDLLVPVIGLITELPLHIRETLF  
TSSLILTLNTVFVLAVKLKWFYYSTRYVYLLVRHMYRIYGLQLLMEDTWKRIRFPDILRV

FWLTRVTAQATVLMYILRMANETDSFFISWDDFWDLICNLIISGCDSTLTVLGMSAVISS  
VAHYLGLGILAFIGSTEEDRRRLGFVAPVLFILALQTGLSGLRPEERLIRLSRNMCLLL  
TAVLHFHIGMTDPVLSLSASHVSSFRHFVLFVSACLFILPVLLSYVLWHHYALNTWL  
FAVTAFCVELCLKVIVSLTVYTLFMIDGYYNVLWEKLDDYVYVVRSTGSIIEFIFGVVMF  
GNGAYTMMFESGSKIRAFMMCLHAYFNIYLQAKNGWKTfMNRRTAVKKINSLPEIKGSRL  
QEINDVCAICYHEFTTSARITPCNHYFHALCLRKWLVIQDTCPMCHQKVYIEDDIKDNSN  
VSNNGFIPPNETPEEAVREAAAESDRELNEDDSTDCDDVQRERNGVIQHTGAAAEFNF  
DDTD

>sp|Q9H6Y7|RN167\_HUMAN E3 ubiquitin-protein ligase RNF167 OS=Homo sapiens GN=RNF167 PE=1  
SV=1

MHPAAFPLPVVVAAVLWGAAPTRGLIRATSDHNASMDFADLPALFGATLSQEGLQGFLVE  
AHPDNACSPIAPPPAPVNGSVFIALLRRFDCNFDLKVNAQKAGYGAAVVHNVNSNELL  
NMVWNSEEIQQIWIIPSVF IGERSSEYLRALFVYEKGARVLLVPDNTFPLGYLIPFTGI  
VGLLVLAMGAVMIARCIQHRKRLQRNRLTKEQLKQIPTHDYQKGDQYDVCAICLDEYEDG  
DKLRVLPCAHAYHSRCVDPWLQTRKTCPICKQPVHRGPGDEDQEEETQGQEEGDEGEPR  
DHPASERTPLLGSSPTLPTSFGSLAPAPLVFPGPSTDPPPLSPSSPVILV

>sp|Q8IYW5|RN168\_HUMAN E3 ubiquitin-protein ligase RNF168 OS=Homo sapiens GN=RNF168 PE=1  
SV=1

MALPKDAIPSLSECQCGICMEILVEPVTLPCNHTLCKPCFQSTVEKASLCCPFCRRRVSS  
WTRYHTRRNSLVNELWTIIQKHYPRECKLRASGQEEVADDYQPVRLLSKPGELRREY  
EEEISKVAAERRASEEEENKASEEYIQRLLAEKEEKKRAEKRRAMEEQLKSDEELAR  
KLSIDINNFCESISASPLNSRKSDPVTpkSEKKSknQKQNTGDIQKYLTPKSQFGSASH  
SEAVQEVKSDSVSKDIDSSDRKSPTGQDTEIEDMPTLSPQISLGVGEQGADSSIESPMPW  
LCACGAEWYHEGNVKTTPSNHGKELCVLSHERPKTRVPYSKETAVMPCGRTEGCAPTSG  
VTQTNGNNTGETENEESCLLISKEISKRNQESSFEAVKDPCFSAKRRKVSPESPQEE  
TEINFTQKLIDLEHLLFERHKQEEQDRLLALQLQKEVDKEQMVNPNRQKQSPDEYHLRATS  
SPDPKVLNGQRKNPKDGNFKRQTHTKHPTPERGSRDKNRQVSLKMLKQSVNRRKMPNST  
RDHCKVSKSAHSLQPSISQKSVFQMFQRCTK

>sp|Q93091|RNASE6\_HUMAN Ribonuclease K6 OS=Homo sapiens GN=RNASE6 PE=1 SV=2

MVLCFPLLLLLLVLWGPVCPLHAWPKRLTKAHWFEIQHIQPSPLQCNRAMSGINNYTQHC  
KHQNTFLHDSFQNVAAVCDLLSIVCKNRRHNCHQSSKPVNMTDCRLTSGKYPQCRYAAA  
QYKFFIVACDPPQKSDPPYKLVPVHLDLIL

>sp|Q9NRR4|RNC\_HUMAN Ribonuclease 3 OS=Homo sapiens GN=DROSHA PE=1 SV=2

MMQGNTCHRMSFHPGRGRCPRGRGGHARPSAPSRFPQNLRLHPQPPVQYQYEPSPAPS  
TTFSNSPAPNFLPPRPDFVPFPPPMPPSAQGPLPPCPIRPPFPNHQMRHFPVPPCFPPM  
PPPMPCPNPPVPGAPPGGTFFPMPPPSMPHPPPPVMPQQVNYQYPPGYSHHNFPPP  
SFNSFQNNPSSFLPSANNSSSPHFRHLPPYPLPKASERRSPERLKHYYDDHRHRDHSGR  
GERHRS�DRRERGRSPDRRRQDSRYRSYDRGRTPSRHRSYERSRERERERHRHRDNRRS  
PSLERSYKKEYKRSGRSYGLSVPEPAGCTPELPGEI IKNTDSWAPPLEIVNHRSPSREK  
KRARWEEKDRWSDNQSSGKDKNYTSIKEKEPEETMPDKNEEEEEEELLPVWIRCTHSEN  
YYSSDPMDQVGDSTVVGTSLRDLYDKFEEELGSRQEKAKAARPPWEPPKTKLDEDLESS  
SESECEDEDSTCSSSDSEVFDVIAEIKRKKAHDPRLHDELWYNDPGQMNDGPLCKCSA  
KARRTGIRHSIYPGEEAIKPCRPMTNAGRLFHYRITVSPPTNFLTDRPTVIEYDDHEYI  
FEGFSMFAHAPLTNIPLCKVIRFNIDYTIHFIEEMMPENFCVKGLELFSLFRLDILELY

DWNLKGPLFEDSPCCPRFHFMPRFVRFPLPDGGKEVLSMHQILLYLLRCSKALVPEEEIA  
NMLQWEELEWQKYAECKGMIVTNPGTKPSSVRIDQLDREQFNPDVITFPIIVHFGIRPA  
QLSYAGDPQYQKLWKSYYVLRHLLANSPVKVQTDKQKLAQREEALQKIRQKNTMRRETV  
ELSSQGFWKTGIRSDVCQHAMMLPVLTHHIRYHQCLMHLDKLIGYTFQDRCLLQLAMTHP  
SHHLNFGMNPDHARNLSNCGIRQPKYGRKVVHMHMRKKGINTLINIMSRLGQDDPTPS  
RINHNERLEFLGDAVVEFLTSVHLYYLFPSLEEGGLATYRTAIVQNQHAMLAKKLELDR  
FMLYAHGPDLCRESDLRHAMANCEFALIGAVYLEGSLEEAKQLFGRLLFNDPDLREVWLN  
YPLHPLQLQEPNTDRQLIETSPVLQKLTEFEEAIGVIFTHVRLARAFTLRTVGFNHLTL  
GHNQRMFLGDSIMQLVATEYLFIFPDHHEGHLTLRSSLVNNRTQAKVAEELGMQEYA  
ITNDKTKRPVALRTKTLADLLESFIAALYIDKDLEYVHTFMNVCFPPRLKEFILNQDWND  
PKSQLQCCCLTLRTEGKEPDIPLYKTLQTVGPSHARTYTVAVYFKGERIGCGKGPSIQQA  
EMGAAMDALEKYNFPQMAHQKRFIERKYRQELKEMRWEREHQEREPEDETIKK

>sp|Q9Y225|RNF24\_HUMAN RING finger protein 24 OS=Homo sapiens GN=RNF24 PE=1 SV=1

MSSDFPHYNFRMPNIGFQNLPLNIYIVVFGTAIFVILSLLFCCYLIRLRHQAHEFYAY  
KQVILKEKVKELNLHELCAVCLEDFKPRDELGICPCKHAFHRKCLIKWLEVRKVCPLCNM  
PVLQLAQLHSKQDRGPPQGPLPGAENIV

>sp|Q92901|RL3L\_HUMAN 60S ribosomal protein L3-like OS=Homo sapiens GN=RPL3L PE=2 SV=3

MSHRKFSAPRHGHLGFLPHKRSHRHRGKVKTWPRDDPSQPVHLTAFLGYKAGMTHTLREV  
HRPGLKISKREEVEAVTIVETPPLVVVGVGIVATPRGLRSFKTIFAEHLSDECRRRFYK  
DWHKSKKKAFTKACKRWRDTDGKKQLQKDFAAAMKKYCKVIRVIVHTQMKLLPFRQKKAHI  
MEIQLNGGTVAEKVAAQARLEKQVPVHSVFSQSEVIDVIAVTKGRGVKGVTSRWHTKKL  
PRKTHKGLRKVACIGAWHPARVGC SIARAGQKGYHHRTELNKKIFRIGRGPHMEDGKLVK  
NNASTSYDVTAKSITPLGGFPHYGEVNNDFVMLKGC IAGTKKRVITLRKSLLVHHSRQAV  
ENIELKFIDTTSKFGHGRFQTAQEKRAFMGPQKKHLEKETPETSGL

>sp|Q8TDU9|RL3R2\_HUMAN Relaxin-3 receptor 2 OS=Homo sapiens GN=RXFP4 PE=1 SV=1

MPTLNTSASPPTFFWANASGGSVLSADDAPMPVKFLALRLMVALAYGLVGAIGLLGNLAV  
LWVLSNCARRAPGPSDTFVFNALADLGLALTLPFWAAESALDFHWPFGGALCKMVLTA  
TVLNVYASIFLITALSVARYWVMAAGPGTHLSLFWARIATLAVWAAAALVTVP TAVFG  
VEGEVCGVRLCLLRFPSRYWLGAYQLQRVVLAFMVPLGVITTSYLLLLAFLQRRQRRRQD  
SRVVARSVRILVASFFLCWFPNHVVTLWGVLVKFDLVPWNSTFYTIQTYVFPVTTCLAHS  
NSCLNPVLYCLLRREPRQALAGTFRDLRLRLWPQGGGWVQVALKQVGRRWVASNPRESR  
PSTLLTNLD RGT PG

>sp|Q8NHW5|RLAOL\_HUMAN 60S acidic ribosomal protein P0-like OS=Homo sapiens GN=RPLP0P6  
PE=5 SV=1

MPREDRATWKSNYFLKIIQLLDDYPKCFIVGADNVGSKMQQIRMSLRGKV VVLMGKNTM  
MRKAIRGHLENNPALEKLLPHIWGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCE  
VTVPAQNTGLGPEKTSFFQALGITTKISRG TIEILSDVQLIKTGDKVGASEATLLNMLNI  
SPFSFGLVIQVFDNGSIYNPEVLDKTEETLHSRFLGVRNVASVCLQTGYPTVASVPHS  
IINGYKRVLALSVETDYTFPLAENVKAFLADPSAFVAAAPVAADTTAAPAAAAAPAKVEA  
KEESESEDEDMGFGGLFD

>sp|Q9NX20|RM16\_HUMAN 39S ribosomal protein L16, mitochondrial OS=Homo sapiens GN=MRPL16  
PE=1 SV=1

MWRLLARASAPLLRVPLSDSWALLPASAGVKTLTPVPSFEDVSIPEKPKLRFIERAPLVP  
KVRREPKNLSDIRGPSTEATEFTEGNFAILALGGGYLHWGHFEMMRLTINRSMDPKNMFA

IWRVPAPFKPITRKSVGHRMGGGKAIDHYVTPVKAGRLVEMGGRCEFEVQGFLDQVA  
HKLPFAAKAVSRGTLEKMRKDQEERERNQNPWTFERIATANMLGIRKVLSPYDLTHKGK  
YWGKFYMPKRV

>sp|Q9BQ48|RM34\_HUMAN 39S ribosomal protein L34, mitochondrial OS=Homo sapiens GN=MRPL34  
PE=1 SV=1

MAVLASLLGPTSRSAALLGGRWLQPRAWLGFPDAWGLPTPQQARGKARGNEYQPSNIKR  
KNKHGWVRLSTPAGVQVILRRMLKGRKSLSH

>sp|Q9NZE8|RM35\_HUMAN 39S ribosomal protein L35, mitochondrial OS=Homo sapiens GN=MRPL35  
PE=1 SV=3

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRL  
TTSERNLTCGHTSVILNRMAPVLPVLKLPVRSPTYFSARKGKRKTAKVIDRFLRLHCG  
LWVRRKAGYKKKLWKKTPARKKRLREFVFCNKTQSKLLDKMTTSFWKRRNWWYDDPYQKY  
HDRTNLKV

>sp|Q96LZ7|RMD2\_HUMAN Regulator of microtubule dynamics protein 2 OS=Homo sapiens GN=RMDN2  
PE=1 SV=2

MPYSTNKEILIGIMVGTAGISLLLLWYHKVRKPGIAMKLEPFLSLGNTFNSITLQDEIHD  
DQGTTFVIFQERQLQILEKLNELLTNMEELKEEIRFLKEAIPKLEEYIQDELGGKITVHKI  
SPQHRARKRRLPTIQSSATSNSSEEAESSEGGYITANTDTEEQSFVPKAFNTRVEELNLD  
VLLQKVDHLRMSSESGKSEFELLRDHKEKFRDEIEFMWRFARAYGDMYELSTNTQEKKH  
ANIGKTLSERAINRAPMNGHCHLWYAVLCGYVSEFEGLNKINYGHLFKEHLDIAIKLLP  
EEPFLYYLKGRYCYTVSKLSWIEKKMAATLFGKIPSSTVQEALHNFLKAEELCPGYSNPN  
YMYLAKCYTDLEENQNALKFCNLALLLPTVTKEDKEAQKEMQKIMTSLKR

>sp|Q9H871|RMD5A\_HUMAN Protein RMD5 homolog A OS=Homo sapiens GN=RMND5A PE=1 SV=1

MDQCVTVERELEKVLHKFSGYGQLCERGLEELIDYTGGLKHEILQSHGQDAELSGTSLV  
LTQCCRKIKDTVQLASDHKDIHSSVSRVGKIDKNFSDISSVGIDGCWQADSQRLLNE  
VMVEHFFRQGMLDVAEELCQESGLSVDPSQKEPFVELNRILEALKVRVLRPALEWAVSNR  
EMLIAQNSSLEFKLHRLYFISLLMGGTTNQREALQYAKNFQPFALNHQKDIQVLMGSLVY  
LRQGIENSPYVHLLDANQWADICDIFTRDACALLGLSVESPLSVSFSAGCVLPALINIK  
AVIEQRQCTGVWNQKDELPIEVDLGKKCWYHSIFACPILRQQTDDNNPPMKLVCGHIISR  
DALNKMFGSKLKCPYPMEQSPGDAKQIFF

>sp|Q8WVD5|RN141\_HUMAN RING finger protein 141 OS=Homo sapiens GN=RNF141 PE=1 SV=1

MGQQISDQTQLVINLKPEKVAHVTLVRESGLTYEEFLGRVAELNDVTAKVASGQEKHL  
LFEVQPGSDSSAFWKVVVRVCTKINKSSGIVEASRIMNLYQFIQLYKDITSQAAGVLAQ  
SSTSEEPDENSSSVTSCQASLWMGRVKQLTDEEECCICMDGRADLILCAHSFCQKCIDK  
WSDRHRNCPICRLQMTGANESWVSDAPTEDDMANYILNMADEAGQPHRP

>sp|P07998|RNAS1\_HUMAN Ribonuclease pancreatic OS=Homo sapiens GN=RNASE1 PE=1 SV=4

MALEKSLVRLLLVLILLVLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSTYCNQMMRR  
RNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGCYKSNSSMHITDCRLTNGSRY  
PNCAYRTSPKERHIIIVACEGSPYVPVHFDASVEDST

>sp|Q9H1E1|RNAS7\_HUMAN Ribonuclease 7 OS=Homo sapiens GN=RNASE7 PE=1 SV=2

MAPARAGFCPLLLLLLLGLWVAEIPVSAKPKGMTSSQWFKIQHMQPSPQACNSAMKNINK  
HTKRCKDLNTFLHEPFSSVAATCQTPKIACKNGDKNCHQSHGAVSLTMCKLTSGKHPNCR  
YKEKRQNKSYVVACKPPQKKDSQQFHLVPVHLDRLV

>sp|P62917|RL8\_HUMAN 60S ribosomal protein L8 OS=Homo sapiens GN=RPL8 PE=1 SV=2

MGRVIRGQRKGAGSVFRAHVHKRKAARLRAVDFAERHGYIKGIVKDI IHDPGRGAPLAK  
VVFRDPYRFKKRTELFIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGEGTIVCCLEEK  
GDRGKLARASGNATVISHNPETKKTRVKLPSPGSKKVISSANRAVVGAVAGGGRIDKPIL  
KAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGGNHQHIGKPSTIRRDAPAGRKVGLIAA  
RRTGRLRGTKTVQEKEN

>sp|P12271|RLBP1\_HUMAN Retinaldehyde-binding protein 1 OS=Homo sapiens GN=RLBP1 PE=1 SV=2  
MSEGVGTFRMVPEEEQELRAQLEQLTTKDHGPVFGPCSQLPRHTLQKAKDELNEREETRE  
EAVRELQEMVQAQASGEELAVAVAERVQEKDSGFFLRFIRARKFNVGRAYELLRGYVNF  
RLQYPELFDSLSPEAVRCTIEAGYPGVLSRDYKGRVVMFNENWQSQEITFDEILQAY  
CFILEKLLENEETQINGFCIIENFKGFTMQAASLRTSDLRKMVMDMLQDSFPAKFKAHF  
IHQPWYFTTTYNVVKPFLKSKLLERVVHGDDLSGFYQEIDENILPSDFGGTLPKYDGKA  
VAEQLFGPQAQAENTAF

>sp|Q5T653|RM02\_HUMAN 39S ribosomal protein L2, mitochondrial OS=Homo sapiens GN=MRPL2  
PE=1 SV=2  
MALCALTRALRSLNAPPTVAAPAPSLFPAAQMMNGLLQQPSALMLLPCRPLTSVALN  
ANFVSWKSRTKYTITPVKMRKSGGRDHTGRIRVHGIGGGHKQRYRMIDFLRFRPEETKSG  
PFEEKVIQVRYDPCRSADIALVAGGSRKRWIIATENMQAGDTILNSNHIGRMAVAAREGD  
AHPLGALPVGTLINNVESEPGRGAQYIRAAGTCGVLLRKVNGTAIIQLPSKRQMQVLETC  
VATVGRVSNVDHNKRVIKAGRNRWLGKRPNSGRWHRKGGWAGRKIRPLPPMKSYVKLPS  
ASASQ

>sp|P09001|RM03\_HUMAN 39S ribosomal protein L3, mitochondrial OS=Homo sapiens GN=MRPL3  
PE=1 SV=1  
MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWL FVRGLHGKSGTWWDEHLSEENVPF  
IKQLVSDDEKAQLASKLCPLKDEPWPIHPWEPGSFRVGLIALKLGMPLWTKDGGKHVVT  
LLQVQDCHVLKYTSKENCNGMATLSVGKTVSRFRKATSILEFYRELGLPPKQTVKIFN  
ITDAAIKPGTPLYAAHFRPGQYVDVTAKTIGKGFQGVMKRWGFKGQPATHGQTKTHRRP  
GAVATGDIGRVWPGTKMPGKMGNIYRTEYGLKVWRINTKHNIYVNGSVPGHKNCLVKVK  
DSKLPAKDLGKNLPFTYFPDGDDEELPEDLYDENVCQPGAPSITFA

>sp|Q9NWU5|RM22\_HUMAN 39S ribosomal protein L22, mitochondrial OS=Homo sapiens GN=MRPL22  
PE=1 SV=1  
MAAAVLGQLGALWIHNLRSGKLALGVLPQSYIHTSASLDIRKWEKKNKIVYPPQLPGE  
PRRPAEIIYHCRRQIKYSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLLEAQD  
MAVRDHNVEFRSNLYIAESTSGRGQCLKRIRYHGRGRFGIMEKVYCHYFVKLVEGPPPPP  
EPPKTAVAHAKYIQQLRSRTIVHTL

>sp|Q9NQ50|RM40\_HUMAN 39S ribosomal protein L40, mitochondrial OS=Homo sapiens GN=MRPL40  
PE=1 SV=1  
MTASVLRISLALRPTSGLLGTWQTQLRETHQRASLLSFWELIPMRSEPLRKKKKVDPKK  
DQEAERLKRKIRKLEKATQELIPIEDFITPLKFLDKARERPQVELTFEETERRALLLK  
WSLYKQKERKMERDITRAMLEAQQAEEELQLESPKLHAEAIKRDPNLPFEKEGPHYTP  
PIPNYQPPEGRYNDITKVYTQVEFKR

>sp|Q9BRJ2|RM45\_HUMAN 39S ribosomal protein L45, mitochondrial OS=Homo sapiens GN=MRPL45  
PE=1 SV=2  
MAAPIPQGFSCLSRFLGWWFRQPVLTQSAAIVPVRTKKRFTPIYQPKFKTEKEFMQHA  
RKAGLVIPPEKSDRSIHLACTAGIFDAYVPPEGDARISSLSKEGLIERTERMKKTMAQV

SIRRIKDYDANFKIKDFPEKAKDIFIEAHLCLNNSDHRLHTLVTEHCFDMDTWDIKYKT  
VRWSFVESLEPSHVQVRCSSMMNQGNVYGQITVRMHTRQTLAIYDRFGRLMYGQEDVPK  
DVLEYVFEKQLTNPYGSWRMHTKIVPPWAPPKQPIILKTMIPGPQLKPEEEYEEAQGEA  
QKPQLA

>sp|Q9H2W6|RM46\_HUMAN 39S ribosomal protein L46, mitochondrial OS=Homo sapiens GN=MRPL46  
PE=1 SV=1

MAAPVVRTLLGVAGGWRRFERLWAGSLSSRSLALAAAPSSNGSPWRLLGALCLQRPPVVS  
KPLTPLQEEMASLLQQIEIERSLYSDHELRALDENQRLAKKKADLHDEEDEQDILLAQDL  
EDMWEQKFLQFKLGARITEADEKNDRITSLNRKLDRLVLLVREKFGDQDVWILPQAEWQP  
GETLRGTAERTLATLSENNMEAKFLGNAPCGHYTFKFPQAMRTESNLGAKVFFFKALLLT  
GDFSQAGNKGGHVWTKDELGDYLPKYLAQVRRFVSDL

>sp|Q8N5N7|RM50\_HUMAN 39S ribosomal protein L50, mitochondrial OS=Homo sapiens GN=MRPL50  
PE=1 SV=2

MAARSVSGITRRVFMWTVSGTPCREFWSRFRKEKEPVVVEETVEEKKEPILVCPPLRSRAY  
TPPEDLQSRLESYVKEVFGSSLPNWDISLEDSRLKFNLHLAHLADDLGHVVPNSRLHQM  
CRVRDVLDFYNVPIQDRSKFDELSASNLPPNLKITWSY

>sp|P49406|RM19\_HUMAN 39S ribosomal protein L19, mitochondrial OS=Homo sapiens GN=MRPL19  
PE=1 SV=2

MAACIAAGHWAAMGLGRSFQAARTLLPPPASIACRVHAGPVRQQSTGPSEPGAQPPPKP  
VIVDKHRPVEPERFLSPEFIPRRGRDPLKFQIERKDMLEERRKVLHIPEFYVGSILRVT  
TADPYASGKISQFLGICIQRSRGLGATFILRNVEGQGVETCFELYNPRVQEIQVVKLE  
KRLDDSLLYLRDALPEYSTFDVNMKPVVQEPNQKVPVNELKVKMKPKPWSKRWERPNFNI  
KGIRFDLCLTEQQMKEAQKWNQPWLEFDMREYDTSKIEAAIWKEIEASKRS

>sp|Q16540|RM23\_HUMAN 39S ribosomal protein L23, mitochondrial OS=Homo sapiens GN=MRPL23  
PE=1 SV=1

MARNVVYPLYRLGGPQLRVFRTNFFIQLVRPGVAQPEDTVQFRIPMEMTRVDLRNYLEGI  
YNVPVAAVTRTVQHGSNKRDRHRNRIKPDYKVAIVQLAHGQTFTFPDLFPEKDESPEG  
SAADDLYSMLEEERQQRQSSDPRRGVPSWFG

>sp|Q96A35|RM24\_HUMAN 39S ribosomal protein L24, mitochondrial OS=Homo sapiens GN=MRPL24  
PE=1 SV=1

MRLSALLALASKVTLPPIRYGMSPPGVSADKRKNPPWIRRRPVVVEPISDEDWYLFCDG  
TVEILEGKDAGKQGVVQVIRQRNWWVVGGLNTHYRYIGKTMIDYRGTMIPSEAPLLHRQV  
KLVDPMDRKPTEIEWRFTEAGERVRVSTRSGRIIPKPEFPRADGIVPETWIDGPKDTSVE  
DALERTYVPCCLKTLQEEVMEAMGIKETRYKKVYWY

>sp|Q9POM9|RM27\_HUMAN 39S ribosomal protein L27, mitochondrial OS=Homo sapiens GN=MRPL27  
PE=1 SV=1

MASVVLALRTRTAVTSLLSPTATALAVRYASKKSGGSSKNLGGKSSGRRQGIIKMEGHY  
VHAGNIIATQRHFRWHPGAHVGVGKNCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRL  
PKGAVLYKTFVHVPAKPEGTFKLVAML

>sp|O75394|RM33\_HUMAN 39S ribosomal protein L33, mitochondrial OS=Homo sapiens GN=MRPL33  
PE=1 SV=1

MFLSAVFFAKSKSNILVRMVSEAGTGFCFNTKRNLREKLTLLHYDPVVKQRVLFVEKK  
KIRSL



>sp|Q96DV4|RM38\_HUMAN 39S ribosomal protein L38, mitochondrial OS=Homo sapiens GN=MRPL38  
PE=1 SV=2

MAAPWWRAALCECRRWRGFSTSAVLGRRTPLGPMNSDIDLSNLERLEKYRSFDRYRRR  
AEQEAQAPHWWRTYREYFGEKTDPKKEIDIGLPPPKVSRTQQLLERKQAIQELRANVEEE  
RAARLRTASVPLDAVRAEWERTCGPYHKQRLAEYYGLYRDLFHGATFVPRVPLHVAYAVG  
EDDLMPVYCGNEVTPTEAAQAPEVTYEAEEGSLWTLTLLTSLDGHLLEPDAEYHLWLLTNI  
PGNRVAEGQVTCPYLPPFPARGSGIHRLAFLLFKQDQPIDFSEDARSPCYQLAQRTFRT  
FDFYKKHQETMTAGLSFFQCRWDDSVTYIFHQLLDMREPVFVFRPPPYHPKQKRFPHR  
QPLRYLDRYRDSHEPTYGIY

>sp|Q9H9J2|RM44\_HUMAN 39S ribosomal protein L44, mitochondrial OS=Homo sapiens GN=MRPL44  
PE=1 SV=1

MASGLVRLQQGHRCLLAPVAPKLVPPVRGVKKGFRAAFQKELERQRLRCPPPPVRR  
SEKPNWDYHAEIQAFGHRLQENFSLDLLKTAfvNSCYIKSEEAKRQQLGIEKEAVLLNLK  
SNQELSEQGTSTFSQTCLTQFLEDEYPDMPTEGIKNLVDFLTGEVVCHVARNLAVEQLTL  
SEEFVPPPAVLQQTFFAVIGALLQSSGPRTALFIRDFLITQMTGKELFEMWKIINPMGL  
LVEELKKRNVSAPESTRQSGGTALPLYFVGLYCDKKLIAEGPGETVLVAEEEEARVA  
LRKLYGFTENRRPNWYSKPKETLRAEKSITAS

>sp|Q96GC5|RM48\_HUMAN 39S ribosomal protein L48, mitochondrial OS=Homo sapiens GN=MRPL48  
PE=1 SV=2

MSGTLEKVLCLRNNTIFKQAFSLLRFRTSGEKPIYSVGGILLSISRPHYTKPTHGIGKYK  
HLIKAEPPKKKKGKEVRAINLGTDYEGVLNIHLTAYDMTLAESYAQYVHNLCNSLSIK  
VEESYAMPTKTIEVLQLQDQGSKMLLDSVLTHERVVQISGLSATFAEIFLEIIQSSLPE  
GVRLSVKEHTEEDFKGRFKARPELEELLAKLK

>sp|Q96EL3|RM53\_HUMAN 39S ribosomal protein L53, mitochondrial OS=Homo sapiens GN=MRPL53  
PE=1 SV=1

MAAALARLGLRPVKQVRVQFCPFKNVESTRTFLQTVSSEKVRSTNLNCSVIADVHRDGS  
EPCVDVLFGDGHRLIMRGAHLTALEMLTAFASHIRARDAAGSGDKPGADTGR

>sp|Q7Z7F7|RM55\_HUMAN 39S ribosomal protein L55, mitochondrial OS=Homo sapiens GN=MRPL55  
PE=1 SV=1

MAAVGSLLGRLRQSTVKATGPALRRLHTSSWRADSSRASLTRVHRQAYARLYPVLLVKQD  
GSTIHIRYREPRMLAMPIDDLTSPEERRARLRKREQLQSRKEYEQELSDDLHVERYR  
QFWTRTKK

>sp|Q8NCN4|RN169\_HUMAN E3 ubiquitin-protein ligase RNF169 OS=Homo sapiens GN=RNF169 PE=1  
SV=2

MAAAGPSTRASSAAAAAALSRRGRRGRCDETAAAKTGAPGPASGPSLLVLSPELLQPPLP  
PRPEESGCAGCLEPPGEAAALPCGHSLCRGCAQRAADAAGPGCPRCRARGPGWARRRARD  
DGQADSEVLGECARRSQPERCPRRDGGAAGPRPEQEPRAPAEPDFIFRAPIKLSKP  
GELREEYESLRKLREEKLQEEKPSEDQIHKLLPEDTETGKRKMDEQKKRDEPLVLKTNLE  
RCPARLSDSENEEPSRGMTQTHRSAFVSKNNSYSLAFLAGKLNSKVERSQSCSDTAQER  
AKSRVRAVPGNAKAKVTMTPASNP IIGVLLSTQNNRCVSAPDLTIEKRLPFSSLSLASL  
HKPERSVSPESNDSISEELNHFKPIVCSPCTPPKRLPDGRVLSPLI IKSTPRNLNRS LQK  
QTSYEASPRILKKWEQIFQERQIKKTL SKATLTSLAPEMGEELLGSEGIHSSKEKPLVAV  
NTRLGGQVLSEYTGPTSADLDHFPSVSQTKAEQSDNKSSTEIPLETCCSSELKGGGSG  
TSLEREQFEGLGSTPDAKLDKTCISRAMKITTVNSVLPQNSVLGGVLKTKQQLKTLNHFD

LTNGVLVESLSEEPLSLRRGRKRHCKTKHLEQNGSLKKLRQTSGEVGLAPTDPVLREME  
QKLQEEEDRQLALQLQRMFDNERRTVSRRKGSVDQYLLRSSNMAGAK

>sp|Q8N6D2|RN182\_HUMAN E3 ubiquitin-protein ligase RNF182 OS=Homo sapiens GN=RNF182 PE=1  
SV=1

MASQPPEDTAESQASDELECKICYNRYNLKQRKPKVLECCHRVCAKCLYKIIDFGDSPQG  
VIVCPFCRFETCLPDDEVSSLPDDNNILVNLTCGGKGKKCLPENPTLLLLTPKRLASLVS  
PSHTSSNCLVITIMEVQRESSPSLSTPVVEFYRPASFDSVTTVSHNWTVWNCTSLLFQT  
SIRVLVWLLGLLYFSSPLPLGIYLLVSKKVTLGVVVSLVPSSLVILMVYGFCQVCHEFL  
DCMAPP

>sp|Q96GF1|RN185\_HUMAN E3 ubiquitin-protein ligase RNF185 OS=Homo sapiens GN=RNF185 PE=1  
SV=1

MASKGPSASASPENSSAGGPSGSSNGAGESGGQDSTFECNICLDTAKDAVISLCGHLFCW  
PCLHQWLETRPNRQVCPVCKAGISRDKVIPLYGRGSTGQDPREKTPPRPQGQRPEPENR  
GGFQGFQFGDGGFQMSFGIGAFPFQIFATAFNINDGRPPPAVPGTPQYVDEQFLSRLFLF  
VALVIMFWLLIA

>sp|Q6ZRF8|RN207\_HUMAN RING finger protein 207 OS=Homo sapiens GN=RNF207 PE=1 SV=2

MSGAIFGPLEGPSSLDAPSIHPLVCPCHVQYERPCLLDCFHDFCAGCLRGRATDGR LTC  
PLCQHQTIVLKGPSGLPPVDRLLQFLVDSSGDGVEAVRCANDLECSEQDVETTYFCNTCG  
QPLCARCRDETHRARMFARHDI VALGQRSRDVPQKCTLHAEPYLLFSTDKLLLCIRCFR  
DMQESRAHCVDLESAYVQGCERLEQAVLAVKALQTATREAIALQAMVEEVVRSAAEEE  
DAIHALFGSMQDRLAERKALLQAVQSQYEEKDAFKEQLSHLATLLPTLQVHLVICSSF  
LSLANKAEFLDLGYELMERLQGIVTRPHHLRPIQSSKIASDHRAEFARCLEPLLLGPRR  
VAAAASGANTLAGGLGPKALTGPHCPSPVGKMSGSPVQKPTLHRSISTKVLLAAGENTPF  
AEHCRHYEDSYRHLQAEMQSLKDQVQELHRDLTKHSLIKAEIMGDVLHKSLLDVQIAS  
EHASLEGMRVVFQEIWEEAYQRVANEQEIYEAQLHDLLQLRQENAYLTTITKQITPYVRS  
IAKVKERLEPRFQAPVDEQSESLQNTHDDSRNNAASARNNPGSVPEKREKTSEPKGNSWA  
PNGLSEEPLLNMDHHRSKQKNGGDVPTWREHPT

>sp|Q8ND24|RN214\_HUMAN RING finger protein 214 OS=Homo sapiens GN=RNF214 PE=1 SV=2

MAASEVAGVVANAPSPPESSSLCASKSDEGLPDGLSTKDSAQKQKNSPLL SVSSQTITKE  
NNRNVLHLEHSEQNPSSAGDTSAAHQVVLGENLIATLCLSGSGSQSDLKDVA STAGEEG  
DTSRLRESLHPVTRSLKAGCHTKQLASRNCSEKSPQTSILKEGNRDTSLDFRPVVPANG  
VEGVRVDQDDDDQSSSLKLSQNI AVQTDFTADSEVNTDQDIEKNLDKMMTERTLLKERY  
QEVLDKQRQVENQLQVQLKQLQQRREEEMKNHQEILKAIQDVTIKREETKKKIEKEKKEF  
LQKEQDLKAEIEKLECKGRREVWEMELDRLKNQDGEINRNIMEETERAWKAEILSLESRK  
ELLVLKLEEAKEAEHLHTYLKSTPPTLETVRSKQEWETRLNGVRIMKKNVRDQFN SHIQ  
LVRNGAKLSSLPQIPTPTLPPPPSETDFMLQVFQPSPSLAPRMPFSIGQVTMPMVMPSAD  
PRSLSPFILNPALSQPSQPSSPLPGSHGRNSPGLGSLVSPHGPMPAASIPPPPG LGGV  
KASAETPRPQPVDKLEKILEKLLTRFPQCNAQMTNILQQIKTARTTMAGLTMEELIQLV  
AARLAEHERVAASTQPLGRIRALFPAPLAQISTPMFLPSAQVSYPGRSSHAPATCKLCLM  
CQKLVPSELHPMACTHVLHKECIKFWAQNTNTDTCFPCPTLK

>sp|E7ERA6|RN223\_HUMAN RING finger protein 223 OS=Homo sapiens GN=RNF223 PE=2 SV=1

MSSGQQVWHTAVPPPRSSSIASMPRSPSSAGSPRSPGTPGSERVASPLECSICFSGYDN  
IFKTPKELSCTHVFCLECLARLAAQPVGRPGGEAVPCPFCRQPTAVPPAGAPALCTSRQ  
LQARMPAHLRREEPVWLEGTKLCCQPLPTTPGREPGFVCVDVGLSKPAEPPAPARDPAPR

RGRLARCWARCRDWRMALVSALLMLFCVALWPVQCALKTGNLRCLPLPPRPATSTAA  
SPLGPLTDN

>sp|Q2M238|RN3P1\_HUMAN Putative RRN3-like protein RRN3P1 OS=Homo sapiens GN=RRN3P1 PE=5  
SV=1

MGFAEAFLEHLWKNLQDPSNPAIIRQAAGNYIGSFLARAKFISLITVKPCLDLLVNWHLHI  
YLNNQDSGTAKAFCDVALHGPFYSACQAVFYTFVFRHKQLLSGNLKEGLQYPQSLNFERIV  
MSQLNPLKICLPSVNVFFAAITKMKTCGYGWW

>sp|P34096|RNASE4\_HUMAN Ribonuclease 4 OS=Homo sapiens GN=RNASE4 PE=1 SV=3

MALQRTHSLLLLLLLTLLGLGLVQPSYGQDGMVQRFLRQHVHPEETGGSDRYCNLMMQRR  
KMTLYHCKRFNTFIHEDIWNIRSICSTTNIQCKNGKMNCHGEGVVKVTDICRDTGSSRAPNC  
RYRAIASTRRVVIACEGNPQVPVHFDG

>sp|P10153|RNASE2\_HUMAN Non-secretory ribonuclease OS=Homo sapiens GN=RNASE2 PE=1 SV=2

MVPKLFTSQICLLLLLGLLAVEGSLHVKPPQFTWAQWFETQHINMTSQCTNAMQVINNY  
QRRCKNQNTFLLTTFANVVNVCNPNMTCPSNKRKNCHHSGSQVPLIHCNLTTPSPQNI  
SNCRYAQTPANMFYIVACDNRDQRRDPPQYPVVPVHLDRII

>sp|O60518|RANBP6\_HUMAN Ran-binding protein 6 OS=Homo sapiens GN=RANBP6 PE=1 SV=2

MAATASAGVPATVSEKQEFYQLLKNLINPSCMVRRAEEIYENIPGLCKTTFLLDAVRNR  
RAGYEVRQMAAALLRRLSSGFEEVYPNLPADVQRDVKIELILAVKLETHASMRKKLCDI  
FAVLARNLIDEDGTNHWPEGLKFLIDSIYSKNVVLWEVALHVFHWPFGIFGTQERHDLDI  
IKRLLDQCIQDQEHPAIRTLSAAAAFVLANENNIALFKDFADLLPGILQAVNDSCYQD  
DDSVLESVLEIADTVPKYLGPLYEDTLQLSLKCGDSRLSNLQRQLALEVIVTLSETATP  
MLKKHTNIIAQAVPHILAMMVDLQDDEDWVNADEMEEDDFDSNAVAEASALDRLACGLGG  
KVVLPMTKEHIMQMLQSPDWKYRHAGLMALSAIGEGCHQQMESILDET VNSVLLFLQDPH  
PRVRAAACTTLGQMATDFAPNFQKKFHETVIAALLRTMENQGNQRVQSHAASALIIIFIED  
CPKSLLVLYVDSMVKNLHSLVLIKLQELIRNGTKLALEQLVTTIASVADTIEEFVPPYYD  
IFMPSLKHIVELAVQKELKLRGKTIECISHIGLAVGKEKFMQDASNMQLLLKTQSDLN  
NMEDDDPQTSYMVSAWARMCKILGKDFQQYLPVIEPLIKTASAKPDVALLDTQDVENMS  
DDDGWQFVNLGDQQSFGIKTSGLEAKATACQMLVYYAKELREGFVEYTEQVVKLMVPLLK  
FYFHDNVRVAAAESMPFLLECARIRGPEYLAQMWQFICDPLIKAIGTEPDTDLSEIMNS  
FAKSIIEVMGDGCLNDEHLEELGGILKAKLEGHFKNQELRQVKRQEENYDQQVEMSLQDED  
ECDVYILT KVSDILHSLFSTYKEKILPWFEQLPLIVNLICSSRPWPDRQWGLCIFDDII  
EHCSPTSFKYVEYFRWPMLLMRDNNPEVRQAAAYGLGVMQFGDDYRSLCSEAVPLL  
KVIKANSKTKKNVIATENCISAIGKILFKPNCVNVDEVLPHWLSWLPLHEDKEEAIQT  
LSFLCDLIESNHPVIGPNNSNLPKIISIIAEGKINETINYEDPCA KRLANVVRQVQTSE  
DLWLECVS QLDDEQQEALQELLNFA

>sp|Q9Y3C5|RNF11\_HUMAN RING finger protein 11 OS=Homo sapiens GN=RNF11 PE=1 SV=1

MGNCLKSPTSDDISLLHESQSDRASFGEGTEPDQEPPPPYQE QVPVPVYHPTPSQTRLAT  
QLTEEEQIRIAQRIGLIQHLPGKVYDPGRDGSEKKIRECVICMMDVYGDPIRFLPCMHI  
YHLCIDDWLMRSFTCPSCMEPVDAALLSSYETN

>sp|Q9H0F5|RNF38\_HUMAN E3 ubiquitin-protein ligase RNF38 OS=Homo sapiens GN=RNF38 PE=1  
SV=4

MACKISPGANSASLPGHPNKVICERVRLQSLFPLLPSDQNTTVQEDAHFKAFFQSEDS  
PKRQRLSHSVFDYTSASPAPSPMPRPWEMTSNRQPPSVRPSQHHSFSGERCNTPARNRRSP  
PVRRQRGRDRLSRHNSISQDENYHHLPAQQQAIEEPRAFHPPNVSPRLLHPAAHPPQQ

NAVMDIHDQLHQGTVPVSYTVTTPVAPHGIPLCTGQHIPACSTQQVPGCSVVFSGQHLPV  
CSVPPMLQACSVQHLPVPYAAFPPLISSDPFLIHPPHLSPHHPPHLPVPGQFVPFQTQQ  
SRSPLQRIENEVELLGEHLPVGGFTYPPSAHPPTLPPSAPLQFLTHDPLHQEVSFQVYP  
PFMPRRLTGRSRYRSQQIPPPPYHPSLLPYVLSMLPVPPAVGPTFSFELDVEDGEVENY  
EALLNLAERLGEAKPRGLTKADIEQLPSYRFNPNNHQSEQLCVVMCDFESRQLLRVLP  
CNHEFHAKCVDKWLKANRTCPICRADASEVHRDSE

>sp|Q5GAN4|RNS12\_HUMAN Probable inactive ribonuclease-like protein 12 OS=Homo sapiens  
GN=RNASE12 PE=2 SV=1

MIIMVIFI FLVLLFWENEVNDEAVMSTLEHLHVDYPQNDVPVPARYCNHMI IQRVIREPDH  
TCKKEHVFIHERPRKINGICISPKKVACQNLSAIFCFQSETKFKMTVCQLIEGTRYACR  
YHYSPTGEFVLVTCDDLRPDSFLGYVK

>sp|Q8N5L8|RP25L\_HUMAN Ribonuclease P protein subunit p25-like protein OS=Homo sapiens  
GN=RPP25L PE=1 SV=1

MEHYRKAGSVELPAPSPMPQLPPTLEMRVRDGSKIRNLLGLALGRLEGG SARHVVFSGS  
GRAAGKAVSCAEIVKRRVPLHQLTKLRFLQTEDSWVPASPDTGLDPLTVRRHVPVWVL  
LSRDPLDPNECGYQPPGAPGLGSMPS SSCGPRSRRRARDTRS

>sp|Q9PIU0|RPA12\_HUMAN DNA-directed RNA polymerase I subunit RPA12 OS=Homo sapiens  
GN=ZNRD1 PE=2 SV=1

MSVMDLANTCSSFQSDLDFCSDGSVLPLPGAQDTVTCIRCGFNINVRDFEGKVVKTSVV  
FHQLGTAMPMSVEEGPECQGPVDRRCPRCGHEGMAYHTRQMRSADegQTVFYTCNCKF  
QEKEDS

>sp|P19388|RPAB1\_HUMAN DNA-directed RNA polymerases I, II, and III subunit RPAB1 OS=Homo sapiens  
GN=POLR2E PE=1 SV=4

MDDEEETYLWKIRKTIMQLCHDRGYLVQTQDELDTLEEFKAQSGDKPSEGRPRRTDLTV  
LVAHNDPDTQMVFVFPPEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVD  
MAPKYILEQLFQELLINITEHELVPHEVVMTKEEVTELLARYKLRENQLPRIQAGDPVA  
RYFGIKRGQVVKIIRPSETAGRYITYRLVQ

>sp|O15160|RPAC1\_HUMAN DNA-directed RNA polymerases I and III subunit RPAC1 OS=Homo sapiens  
GN=POLR1C PE=1 SV=1

MAASQAVEEMRSRVVLGEFGVRNVHTTDFPGNYSYDDAWDQDRFEKNFRVDVVHMDENS  
LEFDMVGIDAAIANAFRRILLA EVPTMAVEKVLVYNNTSIVQDEILAHRLGLPIHADPR  
LFEYRNQGDEEGTEIDTLQFRLQVRCTRNPAAKDSSDPNELVYNHKVYTRHMTWIPLGN  
QADLFPEGTIRPVHDDILIAQLRPGQEIDLLMHCVKGIGKDHAKFSPVATASYRLLPDIT  
LLEPVEGEEAAELSRCSFGVIEVQEVQGKKVARVANPRLDTF SREIFRNEKLKVVRLA  
RVRDHYIFSVESTGVLPPDVLVSEAIKVL MGKCRFLDELDAVQMD

>sp|P24928|RPB1\_HUMAN DNA-directed RNA polymerase II subunit RPB1 OS=Homo sapiens  
GN=POLR2A PE=1 SV=2

MHGGGPPSGDSACPLRTIKRVQFGLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDP  
RQGV IERTGRCQTCAGNMTECPGHFGHIELAKPVFHVGLVKTMKVLRVCFFCSKLLVD  
SNNPKIKDILAKSKGQPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKG  
HGGCGRYQPRIRRSGLELYAEWKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEP  
RYARPEWMI VTLVPVPLSVRPVVMQGSARNQDDLTHKLADIVKINNQLRRNEQNGAAA  
HVIAEDVKLLQFHVATMVDNELPGLPRAMQKSGRPLKSLKQRLKGKEGRVRGNLMGKRVD  
FSARTVITPDNLSIDQVGVPRSIAANMTFAEIVTPFNIDRLQELVRRGNSQYPGAKYII

RDNGDRIDLRFHPKPSDLHLQTYKVERHMCDDIVIFNRQPTLHKMSMMGHRVRILPWS  
TFRLNLSVTTYPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMGIVQD  
TLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHI  
NCIRTHSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEM  
GHDITRLFYSNIQTVINNLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKA  
HNNELEPTPGNTLRQTFENQVNRILNDARDKTGSSAQKSLSEYNNFKSMVVSAGKGSKIN  
ISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIKDDYGPESRGFVENSYLAGLTPTEFFFH  
MGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVRNSINQVVQLRYGEDGLAGES  
VEFQNLATLKPSNKAFAEKKFRFDYTNERALRRTLQEDLVKDVLNAHIQNELEREFERMR  
EDREVLRFIPTGDSKVVLPNCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKELSKKL  
VIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAI  
AHPGEMVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGPRLKELINISKKPKTPSLT  
VFLLGQSARDAERAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMP  
DFDVARISPWLLRVELDRKHMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRI  
IMNSDENKMQEEEEVVDKMDDDVFLRCIESNMLTDMTLQGIEQISKVYMHLPTDNKKKI  
IITEDGEFKALQEWILETDGVSLMRVLSEKDVDPVRTTSNDIVEIFTVLGIEAVRKALER  
ELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQDTGPLMKCSFEETVDVLM  
EAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLLDAECKYGMETPTNIPGLGAAGPTG  
MFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDASGFSPG  
YSPAWSPTPGSPGSPGSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSP  
SYSPTSPSYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSP  
TSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPS  
YSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPT  
SPSYSPPSPRYTPQSPYTPSSPSYSPSSPSYSPASPKYTPTSPSYSPSSPEYTPTPKY  
SPTSPKYSPTSPKYSPTSPTYSPTPKYSPTSPTYSPVYTPTPKYSPTSPTYSPTS  
PKYSPTSPTYSPTPKGSTYSPTSPGYSPTSPTYSLTSPAISPDSDSEN

>sp|O15514|RPB4\_HUMAN DNA-directed RNA polymerase II subunit RPB4 OS=Homo sapiens  
GN=POLR2D PE=1 SV=1

MAAGSDPRAGDVEEDASQLIFPKEFETAETLLNSEVHMLLEHRKQQNESAEDEQELSEV  
FMKTLNYTARFSRFKNRETIASVRSLLLQKKLHKFELACLANLCPETAEEKALIPSLEG  
RFEDEELQQILDDIQTGRSFQY

>sp|Q9NQG5|RPRI1B\_HUMAN Regulation of nuclear pre-mRNA domain-containing protein 1B  
OS=Homo sapiens GN=RPRI1B PE=1 SV=1

MSSFSESALEKKLSELSNSQQSVQTLNLWLIHHRKHAGPIVSVWHRELKAKSNRKLTF  
YLANDVIQNSKRKGPEFTREFESVLVDAFHVAREADEGCKKPLERLLNIWQERSVYGG  
FIQQLKLSMEDSKSPPPKATEEKKSLKRTFQQIQEEEDDDYPGYSYSPQDPSAGPLLTEEL  
IKALQDLENAASGDATVRQKIASLPQEVQDVSLEKITDKEAERLSKTVDEACLLAEY  
NGRLAAELEDRLRLMVEYTNQKQDVLSEKEKKLEEKQKLARVTQVRKELKSHIQSL  
PDLSLLPNVTGGLAPLPSAGDLFSTD

>sp|P62070|RRAS2\_HUMAN Ras-related protein R-Ras2 OS=Homo sapiens GN=RRAS2 PE=1 SV=1

MAAAGWRDGSQGEKYRLVVVGGGGVGKSALTIQFIQSYFVTDYDPTIEDSYTKQCVIDDR  
AARLDILDTAGQEEFGAMREQMYRTGEGFLLVFSVTDGRSFEEIYKFQRQILRVKDRDEF  
PMILIGNKADLDHQVQTQEEGQQLARQLKVTYMEASAKIRMNVDQAFHELVRVIRKFQE  
QECPPSPEPTRKEKDKKGCHCVIF

>sp|Q9BQ52|RNZ2\_HUMAN Zinc phosphodiesterase ELAC protein 2 OS=Homo sapiens GN=ELAC2 PE=1 SV=2

MWALCSLLRSAAGRTMSQGRTISQAPARRERPRKDPLRHLRTREKRGPSGCSGGPNTVYL  
QVVAAGSRDGAALYVFSEFNRYLFNCGEGVQRLMQEHKLKVARLDNIFLTRMHWSNVGG  
LSGMILTLKETGLPKCVLSGPPQLEKYLEAIKIFSGPLKGIELAVRPHSAPEYEDETMTV  
YQIPIHSEQRRGKHQWPQSPERPLSRLSPERSSDSESNEPHLPHGVSQRRGVRDSSLV  
VAFICKLHLKRGNFVLKAKEMGLPVGTAAIAPIIAAVKDGSITHEGREILAEELCTPP  
DPGAAFVVVECPDESFIQPIENATFQRYQGKADAPVALVHMAPASVLVDSRYQQWMER  
FGPDTQHLVLNENCASVHNLRSHKIQTQLNLIHPDIFPLLTFRCKKEGPTLSVPMVQGE  
CLLKYQLRPREWQRDAIITCNPEEFIVEALQLPNFQQSVQEYRRSAQDGPAPAEKRSQY  
PEIIFLGTGSAIPMKIRNVSATLVNISPDTSLLLDCGEGTFGQLCRHYGDQVDRVLGTLA  
AVFVSHLHADHTGLPSILLQREERALSGLKPLHPLLVPAPNQLKAWLQQYHNQCQEV LH  
HISMIPAKCLQEGAEISSPAVERLISSLLRTCDLEEFQTCLVRHCKHAFGCALVHTSGWK  
VVYSGDTMPCEALVRMGKDATLLIHEATLEDGLEEEAVEKTHSTTSQAISVGMRMNAEFI  
MLNHSQRYAKVPLFSPNFSEKVGVAFDHMKVCFGDFPTMPKLIPLKALFAGDIEEMEE  
RREKRELQVRAALLSRELAGGLEDGEPQQKRAHTEEPQAKKVRAQ

>sp|P10155|RO60\_HUMAN 60 kDa SS-A/Ro ribonucleoprotein OS=Homo sapiens GN=TROVE2 PE=1 SV=2

MEESVNQMQLNEKQIANSDQGYVWQVTDNMNRLHRFLCFGSEGGTYIYKEQKLGLENAEA  
LIRLIEDGRGCEVIQEIKSFSQEGRTTKQEPMLFALAICSQCSDISTKQAAFKAVSEVCR  
IPTHLFTFIQFKKDLKESMKCGMWGRALRKAIADWYNEKGGMALALAVTKYKQRNGWSHK  
DLLRLSHLKPSSEGLAIVTKYITKGWKEVHELYKEKALSVETEKLLKYLEAVEKVKRTRD  
ELEV IHLIEEHRLVREHLLTNHLKSKEVWKALLQEMPLTALLRNLGKMTANSVLEPGNSE  
VSLVCEKLCNEKLLKKARIHPFHILIALETYKTGHGLRGKLRPDEEILKALDAAFYKT  
FKTVEPTGKRFLLAVDVSASMNQVRVLSILNASTVAAAMCMVTRTEKDSYVVAFSDEM  
PCPVTDTMTLQQLMAMSQIPAGGTDCSLPMIWAQKTNTPADVFIVFTDNETFAGGVHPA  
IALREYRKKMDIPAKLIVCGMTSNGFTIADPDDRGMLDMCGFDTGALDVIRNFTLDMI

>sp|Q9Y2J0|RP3A\_HUMAN Rabphilin-3A OS=Homo sapiens GN=RPH3A PE=1 SV=1

MTDTVFSNSSNRWMPYSDRPLQSNDEQLQAGWSVHPGGQPDQRKQEELTDEEKEIINR  
VIARAEKMEEMEQUERIGRLVDRLENMRKNVAGDGVNRCILCGEQLGMLGSACVVCEDCKK  
NVCTKCGVETNNRLHSVWLCKICIEQREVWKRSGAWFFKGFQKQVLPQPMPIKKTQKQP  
VSEPAAPQPAPEPKHAPARAGDSEDRRGPGQKTGPDAPASAPGRGNYGPPVRRASEAR  
MSSSSRDSESWDHSGGAGDSSRSPAGLRRANSVQASRPAPGSVQSPAPPQPGQPGTPGGS  
RPGPGPAGRFPDQKPEVAPSDPGTTAPPREERTGGVGGYPAVGAREDRMSHPSGPYSQAS  
AAPQPAARQPPPEEEEEANSYDSDEATTLGALEFSLLYDQDNSSLQCTIIKAKGLK  
PMDNGLADPYVKLHLLPGASKSNKLRTKTLRNRNPIWNETLVYHGITDEDMQRKTLRI  
SVCDEDKFGHNEFIGETRFSLKKLKPQRKNFNICLERVIPMKRAGTTGSARGMALYEEE  
QVERVGDIEERGKILVSLMYSTQQGGLIVGIIRCVHLAAMDANGYSDPFVKLWLPDMGK  
KAKHKTQIKKKTLNPEFNEEFFYDIKHSDLAKKSLDISVWDYDIGKSNDYIGGCQLGISA  
KGERLKHWECLKNKDKKIERWHQLQNHVSSD

>sp|P61218|RPAB2\_HUMAN DNA-directed RNA polymerases I, II, and III subunit RPABC2 OS=Homo sapiens GN=POLR2F PE=1 SV=1

MSDNEDNFDGDDFDDVEEDEGLDDLENAEEEGQENVEILPSGERPQANQKRITTPYMTKY  
ERARVLGTRALQIAMCAPVMVELEGETDPLLIAMKELKARKIPIIIIRRYLPDGSYEDWGV

DELIITD

>sp|P52434|RPAB3\_HUMAN DNA-directed RNA polymerases I, II, and III subunit RPABC3 OS=Homo sapiens GN=POLR2H PE=1 SV=4

MAGILFEDIFDVKDIDPEGKKFDRVSRLHCESESFKMDLILDVNIQIYPVDLGDKFRLVI  
ASTLYEDGTLDDGEYNPTDDRPSRADQFEYVMYGKVYRIEGDETSTEATRLSAYVSYGG  
LLMRLQGDANNLHGFEVDSRVYLLMKKLAF

>sp|P62875|RPAB5\_HUMAN DNA-directed RNA polymerases I, II, and III subunit RPABC5 OS=Homo sapiens GN=POLR2L PE=1 SV=1

MIIPVRCFTCGKIVGNKWEAYLGLLQAEYTEGDALDALGLKRYCCRRMLLAHVDLIEKLL  
NYAPLEK

>sp|Q9BWH6|RPAP1\_HUMAN RNA polymerase II-associated protein 1 OS=Homo sapiens GN=RPAP1 PE=1 SV=3

MLSRPKPGESEVDLLHFQSQFLAAGAAPAVQLVKKGNRGGGDANSRPPPLQDHRDVVMLD  
NLPDLPPALVPSPPKRARPSPGHCLPEDEDPEERLRRHDQHITAVLTKIIERDTSSVAVN  
LPVPSGVAFAVFLRSRDTQGKSATSGKRSIFAQEI AARRIAEAKGPSVGEVVPNVGPPE  
GAVTCETPTPRNQGCQLPGSSHSFQGPNLVTGKGLRDQEAQEQAQTIHEENIARLQAMAP  
EEILQEQQLLAQLDPSLVAFLRSHSHTQEQTGETASEEQRPGGPSANVTKEEPLMSAFA  
SEPRKRDKLEPEAPALALPVTQKEWLHMDTVELEKLHWTQDLPPVRRQQTQERMQARFS  
LQGELLAPDVDLPTHLGLHHHGEEAERAGYSLQELFHLTRSQVSQQRALALHVLAQVISR  
AQAGEFGDRLAGSVLSLLLDAGFLFLRFSLDDRVDGVIATAIRALRALLVAPGDEELLD  
STFSWYHGALTFLMPSQEDKEDEDEDEECPAGKAKRKSPEEESRPPDLARHDIKGLL  
ATSLLPRLRYVLEVITYPGPAVVDILAVLIRLARHSLESATRVLECPRLIETIVREFLPT  
SWSPVGAGPTPSLYKVP CATAMKLLRVLASAGRNI AARLLSSFDLRSRLCRIIAEAPQEL  
ALPPEEAEMLSTEALRLWAVAASYGQGGYLYRELYPVL MRALQVVPRELSTHPPQPLSMQ  
RIASLLTLLTQLTLAAGSTPAETISDSA EASLSATPSLVTWTQVSGLQPLVEPCLRQTLK  
LLSRPEMWRAVGVPVACLLFLGAYYQAWSQQPSSCPEDWLQDMQRLSEELLLPLLSQPT  
LGSLWDSLRHCSLLCNPLSCVPALEAPPSLVSLGCSGGCPRLSLAGSASFPFPLTALLSL  
LNTLAQIHKGLCGQLAAITLAAPGLQNYFLQCVAPGAAPHLTPFSAWALRHEYHLQYLALA  
LAQKAAALQPLPATHAALYHGMA LALLSRLLPGSEYLTHELLSCVFRLEFLPERTSGGP  
EAADFSDQLSLGSSRVPRCGGTLLAQACQDLPSIRNCYLTHCSPARASLLASQALHRGE  
LQRVPTLLLPMPTEPLLPTDWPFLPLIRLYHRASDTPSGLSPTDTMGTMAMRVLQWVLVLE  
SWRPQALWAVPPAARLARLMCVFLVDSELFRESPVQHLVAALLAQLCQPQVLPNLNDCR  
LPGLTSFPDLYANFLDHFEAVSFGDHLFGALVLLPLQRRFSVTLRLALFGEHVGALRALS  
LPLTQLPVSLECYTVPPEDNLALLQLYFRTLVTGALRPRWCPVLYAVAVAHVNSFIFSQD  
PQSSDEVKAARRSMLQKTWLLADEGLRQHLLHYKLPNSTLPEGFELYSQLPPLRQHYLQR  
LTSTVLQNGVSET

>sp|P30876|RPB2\_HUMAN DNA-directed RNA polymerase II subunit RPB2 OS=Homo sapiens GN=POLR2B PE=1 SV=1

MYDADEDMQYDEDDDEITPDLWQEACWIVISSYFDEKGLVRQQLD SFDEFIQMSVQRIVE  
DAPPIDLQAEAQHASGEVEEPPRYLLKFEQIYLSKPTHWERD GAPSPMMPNEARLRNLTY  
SAPLYVDITKTVIKEGEEQLQTQHQTFIGKIPIMLRSTYCLNGLTDRDLCELNECP LD  
PGGYFIINGSEKVLIAQEKMATNTVYVFAKKDSKYAYTGECSRSCLENSRPTSTI WVSML  
ARGGQGAKKSAIGQRIVATLPYIKQEVPIIIVFRALGFVSDRDILEHIYDFDEPEMMEM  
VKPSLDEAFVIEQNVALNFIGSRGAKPGVTKEKRIKYAKEVLQKEMPLPHVGVSDFCETK

KAYFLGYMVHRLLLAALGRREDDRDHYGNKRLDLAGPLLAFLFRGMFKNLLKEVRIYAQ  
KFIDRGKDFNLELAIKTRIISDGLKYSLATGNWGDQKKAHQARAGVSQVLNRLTFASTLS  
HLRRLNSPIGRDGKLAKPRLHNTLWGMVCPAETPEGHAGLVKNLALMAYISVGSQPSP  
ILEFLEEWSMENLEETSPAAIADATKIFVNGCWVGIHKDPEQLMNTLRKLRRQMDIIVSE  
VSMIRDIREREIRIYTDAGRICRPLLIVEKQKLLLKKRHIDQLKEREYNNYSWQDLVASG  
VVEYIDTLEEETVMLAMTPDDLQEKEVAYCSTYTHCEIHPSMILGVCASIIIPFDHNQSP  
RNTYQSAMGKQAMGVYITNFHVRMDTLAHVLYYPQKPLVTTRSMEYLRFRELPAGINISIV  
AIASYTGYNQEDSVIMNRSVDRGFFRSVFYRSYKEQESKKGFDQEEVFKEPTRETCQGM  
RHAIYDKLDDGLIAPGVRVSGDDVIGKTVTLPENEDLESTNRRYTKRDCSTFLRTSE  
TGIVDQVMVTNLNEGKFKIRVRSVRIPQIGDKFASRHGQKGTGCIQYRQEDMPFTCEG  
ITPDIIINPHAIPSRMTIGHLIECLQGKVSANKGEIGDATPFNDVNVQKISNLLSDYGY  
HLRGNEVLYNGFTGRKITSQIFIGPTYQRLKHMVDDKIHRSARGPIQILNRQPMEGRSR  
DGGLRFGEMERDCQIAHGAAQFLRERLFEASDPYQVHVCNLGIMAIAINTRTHTYECRGC  
RNKTQISLVRMPYACKLLFQELMSMSIAPRMMSV

>sp|P19387|RPB3\_HUMAN DNA-directed RNA polymerase II subunit RPB3 OS=Homo sapiens  
GN=POLR2C PE=1 SV=2

MPYANQPTVRITELTDENVKFIIENTDLAVANSIRRVFIAEVPIIAIDWVQIDANSSVLH  
DEFIAHRLGLIPLISDDIVDKLQYSRDTCEEFCECSVEFTLDVRCNEDQTRHVTSRDL  
ISNSPRVIPVTSRNRDNDPNDYVEQDDILIVKLKKGQELRLRAYAKKGFGEHAKWNPTA  
GVAFEYDPDNALRHTVYPKPEEWPKSEYSELDEDESQAPYDPNGKPERFYNNVESCGLR  
PETIVLSALSGLKKLSLQTLQSHEIQSDVLTIN

>sp|Q9NW08|RPC2\_HUMAN DNA-directed RNA polymerase III subunit RPC2 OS=Homo sapiens  
GN=POLR3B PE=1 SV=2

MDVLAEEFGNLTPEQLAAPIPTVEEKWRLPAFLKVKGLVKQHIDSFNYFINVEIKKIMK  
ANEKVTSDADPMWYLKYLNIYVGLPDVEESFNVTRPVSPHECRLRDMTYSAPITVDIEYT  
RGSQRIIRNALPIGRMPIMLRSSNCVLTGKTPAEFAKLNECPLDPGGYFIVKGVEKVILI  
QEQLSKNRIIVEADRGAVGASVTSSTHEKKSRTNMAVKQGRFYLRHNTLSEDIPIVIFI  
KAMGVESDQEIQMIQTEEHVMAAFGPSLEECQKAQIFTQMQUALKYIGNKVRRQRMWGGG  
PKKTKIEEARELLASTILTHVPVKEFNFRACIYTAVMVRVILAQGDKNVDDRDYGNK  
RLELAGQLSLLFEDLFKKFNSEMKKIADQVIPKQRAAQFDVVKHMRQDQITNGMVNAIS  
TGNWSLKRFKMDRQGVTVLSRLSYISALGMMTRISSQFEKTRKVSQPRSLQPSQWMLC  
PSDTPEGEACGLVKNLALMTHITDMEDGPIVKLASNLGVEDVNLLCGEELSYPNVFLVF  
LNGNILGVIIRDHKKLVNTFRLMRRAGYINEFVSISTNLTDRCVYISSDGRLCRPYIIVK  
KQKPAVTNKHMEELAQGYRNFEDFLHESLVEYLDVNEENDCNIALYEHTINKDTTHLEIE  
PFTLLGVCAGLIPYPHHNQSPRNTYQCAMGKQAMGTIGYNQRNRIDTLMYLLAYPQKPMV  
KTKTIELIEFEKLPAGQATVAVMSYSGYDIEDALVLNKASLDRGFGRCLVYKNACTLK  
RYTNQTFDKVMGPMLDAATRKPWRHEILDADGICSPGEKVENKQVLNKSMPVTVTQIPL  
EGSNVPQQPQYKDVPITYKGATDSYIEKVMISSNAEDAFLIKMLLRQTRRPEIGDKFSSR  
HGQKGVCGLIVPQEDMPFCDSGICPDIIIMNPHGFPSRMTVGKLIELLAGAGVLDGRFHY  
GTAFGGSKVVDVCELDVRHGYNYLGKDYVTSGITGEPELAYIYFGPVVYQKLKHMVLDKM  
HARARGPRAVLTRQPTEGRSRDGGLRLGEMERDCLIGYGASMLLERLMISSDAFEVDVC  
GQCGLLGYSGWCHYCKSSCHVSSLRIPYACKLLFQELQSMNIIPRLKLSKYNE

>sp|P05423|RPC4\_HUMAN DNA-directed RNA polymerase III subunit RPC4 OS=Homo sapiens  
GN=POLR3D PE=1 SV=2



MSEGNAAGEPSTPGGPRLLTGARGLIGRRPAPPLTPGRLPSIRSRDLTLGGVKKKTFTP  
NIISRKIKEEPKEEVTVKKEKRERDRDRQREGHGRGRGRPEVIQSHSIFEQGAEMMKKK  
GNWDKTVDVSDMGPSHIINIKKEKRETDEETKQILRMLEKDDFLDDPGLRNDTRNMPVQL  
PLAHSGWLFKEENDEPDVKPWLAPKEEDMEVDIPAVKVKEEPRDEEEEAKMKAPPKAAR  
KTPGLPKDVSVAELLRELSLTKEEELLFLQLPDTLPGQPPTQDIKPIKTEVQGEDGQVVL  
IKQEKDREAKLAENACTLADLTEGQVGKLLIRKSGRVQLLLGKVTLDTVMTGACSFLLQEL  
VSVGLGDSRTGEMTVLGHVKHKLVCSPDFESLLDHKHR

>sp|Q96AT9|RPE\_HUMAN Ribulose-phosphate 3-epimerase OS=Homo sapiens GN=RPE PE=1 SV=1  
MASGCKIGPSILNSDLANLGAECRLMLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQ  
LGQDPFFDMHMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGMKVGLAIK  
PGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMMPKVHWLRTQFPSLDIEVDGGVGP  
DTVHKCAEAGANMIVSGSAIMRSEDPRSVINLLRNVCEAAQKRSDDR

>sp|Q9H9Y2|RPF1\_HUMAN Ribosome production factor 1 OS=Homo sapiens GN=RPF1 PE=1 SV=2  
MAKAGDKSSSSGKSLKRKAAAEELQEAAGAGDGATENGVPKAAAFPPGFSISEIKNK  
QRRHLMFTRWKQQKKEKLAAKKKLKKEREALGDKAPPKVPKTIQNQRVYDETTVPND  
EEVAYDEATDEFASYFNKQTSKILITTSRPHGRTVRLCEQLSTVIPNSHVYYRRLAL  
KKIIPQCIARDFTDLIVINEDRKTPNGLILSHLPNGPTAHFKMSSVRLKEIKRRGKDP  
EHIPEIILNNFTTRLGHSIGRMFASLFPHNPQFIGRQVATFHNQRDYIFFRFHRYIFRSE  
KKVGIQELGPRFTLKLRLSLQKGTDFDSKYGEYEWVHKPREMDTSRRKFHL

>sp|O95398|RPGF3\_HUMAN Rap guanine nucleotide exchange factor 3 OS=Homo sapiens GN=RAPGEF3  
PE=1 SV=6

MKVGWPGESCWQVGLAVEDSPALGAPRVGALPDVVPEGTLLNMVLRMRPRSCSYQLL  
EHQRPSCIQGLRWTPLTNSEESLDFSESLEQASTERVLRAGRQLHRHLLATCPNLIRDRK  
YHLRLYRQCCSGRELVDGILALGLGVHSRSQVVGICQVLLDEGALCHVKHDWAFQDRDAQ  
FYRFPGPEPEPVRTHEMEEELAEAVALLSQRGPDALLTVALRKPPGQRTDEELDLIFEEL  
LHIKAVAHLSNSVKRELAALLFEPHSGAGTVLFSQDGKGTSWYIIWKGSVNVVTHGKGL  
VTTLHEGDDFGQLALVNDAPRAATIIILREDNCHFLRVDKQDFNRIKDV EAKTMRLEEKG  
KVVLVLERASQAGPSRPPTPGRNRYTVMSGTPEKILELLEAMGPDSSAHDPTETFLSD  
FLLTHRVMPSAQLCAALLHHFHVEPAGGSEQRSTYVCNKRQQILRLVSQWVALYGSML  
HTDPVATSFLQKLSDLVGRDTRLNLLREQWPERRRCHRENGCGNASPQMKARNLPVWL  
PNQDEPLPGSSCAIQVGDKVPYDICRPDHSVLTQLPVTASVREVMAALAQEDGWTKGQV  
LVKVSAGDAIGLPDARGVATSLGLNERLFVVPNPQEVHELIPHPDQLGPTVGSAGLDDL  
VSAKDLAQQLTDHDSLNFNSIHQVELIHVVLGPQHRLDVTANLERFMRRFNELQYWVAT  
ELCLCPVPGPRAQLLRKFIKLAHLKEQKNLNSFFAVMFGLSNSAISRLAHTWERLPHKV  
RKLYSALERLLDPSWNRVYRLALAKLSPPVIPFMPLLLKDMTFIHEGNHTLVENLINFE  
KMRMMARAARMLHHCPSHNPVPLSPLRSRVSHLHEDSQVARISTCSEQSLSTRSPASTWA  
YVQQLKVIDNQRELSRLSRELEP

>sp|Q9H633|RPP21\_HUMAN Ribonuclease P protein subunit p21 OS=Homo sapiens GN=RPP21 PE=1  
SV=1

MAGPVKDRFAFQRLNFLYQAAHCVLAQDPENQALARFYCYTERTIAKRLVLRDPSPVKRT  
LCRGCSLLVPGLTCTQRQRCRGQRWTVQTCLTCQRSQRFLNDPGHLLWGDRPEAQLGS  
QADSKPLQPLNTAHSISDRLPEEKMQTQGSNNQ

>sp|P78346|RPP30\_HUMAN Ribonuclease P protein subunit p30 OS=Homo sapiens GN=RPP30 PE=1  
SV=1

MAVFADLDLRAGSDLKALRGLVETAHGLYSVVAINHIVDFKEKKQEIEKPVAVSELFTT  
LPVQKGSRPIKILTRLTIIVSDPSHCNVLATSSRARLYDVVAVFPKTEKLFHIACTHL  
DVLVCITVTEKLPFYFKRPPINVAIDRGLAFELVYSPAIKDSTMRRYTISSALNLMQIC  
KGKNVVISSAAERPLEIRGPYDVANLGLLFGLESSEDAKAAVSTNCRAALLHGETRKTAFG  
IISTVKKPRPSEGDEDCLPASKKAKCEG

>sp|Q5VZM2|RRAGB\_HUMAN Ras-related GTP-binding protein B OS=Homo sapiens GN=RRAGB PE=1 SV=1

MEESDSEKTTEKENLGPRMDPPLGEPEGLGWLPNTAMKKKVLLMGKSGSGKTSMRSI  
FANYIARDTRRLGATILDRIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFLGNLVLN  
LWDCGGQDTFMENYFTSQRDNIIFRNEVLIYVFDVESRELEKDMHYQSCLEAILQNSPD  
AKIFCLVHKMDLVQEDQRDLIFKEREEDLRRLSRPLECSCFRTSIWDETLYKAWSSIVYQ  
LIPNVQQLLEMLRNFAEIIIEADEVLLFERATFLVISHYQCKEQRDAHRFEKISNI IKQFK  
LSCSKLAASFQSMEVNRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHF  
LERVDGPKQCLLMR

>sp|Q96E11|RRFM\_HUMAN Ribosome-recycling factor, mitochondrial OS=Homo sapiens GN=MRRF PE=1 SV=1

MALGLKCFRMVHPTFRNYLAASIRPVSEVTLKTVHERQHGHRYMAYSAVPVRHFATKKA  
KAKGKGQSQTRVNINAALVEDIINLEEVNEEMKSVIEALKDNFNKTLNIRTSPGSLDKIA  
VVTADGKLALNQISQISMKSPQLILVNMAFPECTAAAIKAIRESGMNLNPEVEGTLIRV  
PIPVQVTRHREMLVKLAKQNTNKAKDSLKVRTNSMNKLKSKDTVSEDTIRLIEKQISQ  
MADDTVAELDRHLAVKTKELG

>sp|Q9Y3B9|RRP15\_HUMAN RRP15-like protein OS=Homo sapiens GN=RRP15 PE=1 SV=2

MAAAPDSRVSEENLKKTPKKMKMVTGAVASVLEDEATDTSDEGSCGSEKDHFYSD  
DAIEADSEGAEPCKENENDGESSVGTNMGWADAMAKVLNKKTPESKPTILVKNKKLEK  
EKEKLKQERLEKIKQRDKRLEWEMMCRVKPDVVQDKETERNLQRIATRGVVQLFNAVQKH  
QKNVDEKVKEAGSSMRKRAKLISTVSKKDFISVLRGMDGSTNETASSRKKPKAKQTEVKS  
EEGPGWTILRDDFMGASMKDWDKESDGPDDSRPESASDSDT

>sp|Q14684|RRP1B\_HUMAN Ribosomal RNA processing protein 1 homolog B OS=Homo sapiens GN=RRP1B PE=1 SV=3

MAPAMQPAEIQFAQLASSEKGI R DRAVKKLRQYISVKTQRETGGFSQEELLKIWKGLFY  
CMWVQDEPLLQEELANTIAQLVHAVNNSAAQHLFIQTFWQTMNREWKIDRLRLDKYYML  
IRLVLRQSFEVLKRNGWEESRIKVFLDVLMEVLCPEQSQSPNGVRHFHIDIYLDLSKVG  
GKELLADQNLKFIDPFCKIAAKTKDHTLVQTIARGVFEAIVDQSPFVPEETMEEQKTKVG  
DGDLSAEEIPENEVSLRRRAVSKKKTALGKNHSRKDGLSDERGRDDCGTFEDTGPLLQFDY  
KAVADRILLEMTSRKNTPHFNKRRLSKLIKQFQDLSEGSSISQLSFAEDISADEDDQILSQ  
GKHKKKGKLNLEKTNLEKEGSRVFCVEEEDSESSLQRRRRKKKKHHLQPENPGPGGAA  
PSLEQNRGREPEASGLKALKARVAEPGAEATSSTGEESGSEHPPAVPMHNKRKRPRKKSP  
RAHREMLESAVLPPEDMSQSGPSGSHPGGPRGSPTGGAQLLKRKRKLGVVPVNGSGLSTP  
AWPPLQQEGPPTGPAEGANSHTTLPQRRRLQKKKAGPGSLELCGLPSQKTASLKKRKKMR  
VMSNLVEHNGVLESEAGQPQALGSSGTCSSLKKQKLAESDFVKFDTPLPKPLFFRAK  
SSTATHPGPAVQLNKTPTSSSKKVTFLNRNMTAEFKKTDKLSILVSPTGPSRVAFDPEQK  
PLHGVLTPTSSPASSPLVAKKPLTTTPRRRPRAMDF

>sp|Q14690|RRP5\_HUMAN Protein RRP5 homolog OS=Homo sapiens GN=PDCD11 PE=1 SV=3

MANLEESFPRGGTRKIHKEKAFQSQVEQDNLFDISTEEGSTKRKKSQKGPAKTKKLIKIE

KRESSKSAREKFEILSVESLCEGMRILGCVKEVNELELVISLPNGLQGFVQVTEICDAYT  
KKLNEQVTQEQLKDLLHLPELFSFGMLVRCVVSSLGITDRGKKS VKLSLNPKNVNRVLS  
AEALKPGMLLTGTVSSLEDHGVLVDIGVDGTRAFLLPKAQEYIRQKNKGAKLVGGQYLN  
CIVEKVKGNNGVSVL SVGHSEVSTAIATEQQSWNLNNLLPGLVVKAVQKVTPFGLTLNF  
LTFFTGVVDFMHLDPKAGTYFSNQAVRACILCVHPRTRVVHLSLRPIFLQPRPLTRLS  
CQNLGAVLDDVPVQGFKKAGATFRLKDGVLAYARLSHLSDSKNVFNPEAFKPGNTHKCR  
IIDYSQMDELALLSLRTSII EAQYLYRHDIEPGAVVKGTVLTIKSYGMLVKVGEQMRGLV  
PPMHLADILMKNPEKKYHIGDEVKCRVLLCDPEAKKMMTLKKTLESKLPVITCYADAK  
PGLQTHGFIIRVKDYGCIKVFYNNVQGLVPKHELSTEYIPDPERVFYTGQVVKVVLNCE  
PSKERMLLSFKLSSDPEPKKEPAGHSQKKGKAINIGQLVDVKVLEKTDGLEVAVLPHNI  
RAFLPTSHLSHDVANGPLLHHWLQAGDILHRVLCLSQSEGRVLLCRKPALVSTVEGGQDP  
KNFSEIHPGMLLIGFVKS IKDYG VFIQFPSGLSGLAPKAIMSDKFVTSTSDHFVEGQTVA  
AKVTNVDEEKQRMLLSRLSDCGLGDLAITSLLLLNQCLEELQGVRSLSMNRDSVLIQTL  
AEMTPGMFLDLVVQEVLEDGSSVFSGGPVPDLVLKASRYHRAGQEVESGQKKKVILNVD  
LLKLEVHVS LHQDLVNRKARKLRKGEHQAI VQHLEKSFAIASLVETGHAAFSLSHLN  
DTFRFDSEKLQVGQGVSLTLKTTEPGVTGLLLAVEGPAAKRTMRPTQKDSETVDEDEEVD  
PALTVGTIKKHTLSIGDMVTGTVKS IKPTHVVVTL EDGIIGCIHASHILDDVPEGTSPTT  
KLKVGKTVTARVIGGRDMKTFKYLPI SHPRFVRTIPELSVRPSELEDGHTALNTHSVSPM  
EKIKQYQAGQTVTCFLKKYNNVKKWLEVEIAPDIRGRIPLLLTSLSFVKLKHDPKKFRVG  
QALRATVVGPDSSTLLCLSLTGPHKLEEGEVAMGRVVKVTPNEGLTVSFPFGKIGTVSI  
FHMSDSYSETPLED FVPQKVRCYILSTADNVLTLSLRSSRTNPETKSKVEDPEINSIQD  
IKEGQLLRGYVGSIQPHGVFFRLGPSVVGLARYSHVSQHSPSKKALYNKHLPEGKLLTAR  
VLRLNHQKNLVELSFLPGDTGKPDVLSASLEGQLTKQEERKTEAEERDQKGEKKNQKRNE  
KKNQKGQEEVEMPSKEKQPQKPAQKRGGRECRESGSEQERVSKKPKKAGLSEEDDSLV  
DVYYREGKEEAEETNVLPKEKQTKPAEAPRLQLSSGFANVGLDSLTPALPPLAESSDSE  
EDEKPHQATIKKSKERELEKQKA EKELSRIEEALMDPGRQPESADDFDRLVLSSPNSSI  
LWLQYMAFHLQATEIEKARAVAERALKTISFREEQEKLNVWALLNLENMYGSQESLTKV  
FERAVQYNEPLKVLHLADIYAKSEKFQEAGELYNRMLKRFRQEKA VIKYGAFLLRRSQ  
AAASHRVLQRALECLPSKEHVDVIAKFAQLEFQLGDAERAKAIFENTLSTYPKRTDVWSV  
YIDMTIKHGSQKDVRDIFERV IHLSLAPKRMKFFFKRYLDYEKQHGTEKDVQAVKAKALE  
YVEAKSSVLED

>sp|Q15050|RRS1\_HUMAN Ribosome biogenesis regulatory protein homolog OS=Homo sapiens  
GN=RRS1 PE=1 SV=2

MEGQSVEELLAKAEQDEAEKLQRITVHKELELQFDLGNLLASDRNPPTGLRCAGPTPEAE  
LQALARDNTQLLINQLWQLPTERVEEAIVARLPEPTTRLPREKPLPRPRPLTRWQQFARL  
KGIRPKKKTNLVDEVSGQWRRRWGYQRARDDTKEWLEIVPGNADPLEDQFAKRIQAKKE  
RVAKNELNRLNRLARAHKMLPSAAGLHPTGHQSKEELGRAMQVAKVSTASVGRFQERLP  
KEKVPRGSGKKRKFQPLFGDFAAEKKNQLELLRVMNSKKPQLDVTRATNKQMR EEDQEEA  
AKRRKMSQKGRKGGRQGGPGGKRKGPPSQGGKRKGGLGGMNSGPPGLGGRKGGRGQRP  
GKRRK

>sp|Q9Y2Y1|RPC10\_HUMAN DNA-directed RNA polymerase III subunit RPC10 OS=Homo sapiens  
GN=POLR3K PE=1 SV=2

MLLFCPGCGNGLIVEEGQRCHRFSCNTCPYVHNITRKVTNRKYPKLKEVDDVLGGAAAW  
NVDSTAESCPKCEHPRAYFMQLQTRSADEPMTTFYKCCNAQCGRWRD

>sp|Q8N4K4|RPRML\_HUMAN Reprimo-like protein OS=Homo sapiens GN=RPRML PE=2 SV=2

MNATFLNHSGLEEV DGVGGGAGAA LGNRTHGLGTWLGCCPGGAPLAASDGVPA GLAPDER  
SLWVS RVAQIAVLCVLSLTVVFGVFFLGCNLLIKSESMINFLVQERRPSKDVGAAILGLY

>sp|Q9NS64|RPRM\_HUMAN Protein reprimo OS=Homo sapiens GN=RPRM PE=1 SV=1

MNPALGNQTDVAGLFLANSSEALERAVRCCTQASVVTDDGFAEGGP DERSLYIMRVVQIA  
VMCVLSLTVVFGIFFLGCNLLIKSEGMINFLVKDRRPSKEVEAVVVG PY

>sp|Q6XPR3|RPTN\_HUMAN Repetin OS=Homo sapiens GN=RPTN PE=1 SV=1

MAQLLSILSVIDVFHKYAKNGDCALLCKEELKQLLLAEFGDILQRPNDPETVETILNL  
LDQDRDGHIDFHEYLLLVFQLVQACYHKLDNKS HGGRTSQQERGQEGAQDCKFP GNTGRQ  
HRQRHEEERQNSHHSQPERQDGD SHHGQPERQDRDSHHGQSEKQDRDSHHSQPERQDRDS  
HHNQSERQDKDFSFDQSERQSQDSSSGKKVSHKSTSGQAKWQGHIFALNRCEKPIQDSHY  
GQSERHTQQSETLGQASHFNQTNQKSGSYCGQSERLGQELGCGQTDRQGQSSHYGQTDR  
QDQSYHYGQTDRQGQSSHYSTDRQGQSSHYSPDRQGQSSHYGQMDRKGQCYHYDQTNR  
QGQGS HYSPNRRQGQSSHYGQPD TDQDSSHYGQTDRQDQSSHYGQTERQGQSSHYSQMDR  
QGQGS HYGQTDRQGQSSHYGQPD RQGQNSHYGQTDRQGQSSHYGQTDRQGQSSHYSPDK  
QGQSSHYGKIDRQDQSYHYGQPDGQGQSSHYGQTDRQGQSFHYGQPD RQGQSSHYSQMDR  
QGQSSHYGQTDRQGQSSHYGQTDRQGQSYHYGQTDRQGQSSHYIQSQTGEIQGQNKYFQG  
TEGTRKASYVEQSGRSGRLSQQTPGQEGYQNGQGFQSRDSQQNGHQVWEPEEDSQHHQH  
KLLAQIQERPLCHKGRDWQSCSSEQGHRQAQTRQSHGEGLSHWAEQQGHQTWDRHSHE  
SQEGPCGTQDRRTHKDEQNHQRRDRQTHEHEQSHQRRDRQTHEDKQNRQRRDRQTHEDEQ  
NHQR

>sp|Q9NSQ0|RRP7B\_HUMAN Putative ribosomal RNA-processing protein 7 homolog B OS=Homo sapiens GN=RRP7BP PE=5 SV=1

MEAYDQKIAEEEEAKAKEEEGV PDEEGWVKVTRRGRRPVLP RTEAASLRVLERERRKRSQK  
ELLNYAWQHRESKMEHLAQLRKKFEEDKQRIELLRAQRKFRPY

>sp|Q9NQ39|RS10L\_HUMAN Putative 40S ribosomal protein S10-like OS=Homo sapiens GN=RPS10P5 PE=5 SV=1

MLMPKKNRIAIHELLFKEGVMVAKKDVHMPKHP ELADKNV PNLHVMKAMQSLKSRGCVKE  
QFAWRHFYWYLTNEGSQYL RDYLHLPPEIVPATLHLPPEIVPATLHRSRPETGRPRPKGL  
EGKRPARLTRREADRDTYRRCSVPPGADKKA EAGAGSATEFQFRGRCGRGRGQPPQ

>sp|Q9BYD6|RM01\_HUMAN 39S ribosomal protein L1, mitochondrial OS=Homo sapiens GN=MRPL1 PE=1 SV=2

MAAAVRCMGRALIHQ RHSLSKMVYQTS LCSCSVNIRVPNRHFAAATKS AKKTKKGAKEK  
TPDEKKDEIEKIKAYPYMEGE PEDDVYLKRLYPRQIYEVEKAVHLLKKFQILDFTSPKQS  
VYLDLTDMALGKKKNVEPFTSVLSLPYPFASEINKVAVFTENASEVKIAEENGAAFAGG  
TSLIQKIWDDEIVADFYVAVPEIMPELNRLRKKLNKKYPKLSRNSIGRDIPKMLEL FKNG  
HEIKVDEERENFLQTKIATLDMSSDQIAANLQAVINEVCRHRPLNLGPFVVR AFLRSSTS  
EGLLLKIDPLLPKEVKNEESEKEDA

>sp|Q9BYD2|RM09\_HUMAN 39S ribosomal protein L9, mitochondrial OS=Homo sapiens GN=MRPL9 PE=1 SV=2

MAAPVVTAPGRALLRAGAGRLLRGGVQELLRPRHEGNAPDLACNFSLSQNRGTVIVERWW  
KVPLAGEGRKPRLRHRRHVYKLVEDTKHRPKENLELILTSQSVENVGVRGDLVSVKKS LGR  
NRLLPQGLAVYASPENKKLFEEKKLRQEGKLEKIQT KAGEATVKFLKSCRLEVGMKNV  
KWELNPEIVARHFFKNLGVV VAPHTLKLPEEPI TRWGEYWCEVTVNGLDTVRVPM SVVNF

EKPKTKRYKYWLAQQAAMAPTSPQI

>sp|Q9Y3B7|RM11\_HUMAN 39S ribosomal protein L11, mitochondrial OS=Homo sapiens GN=MRPL11  
PE=1 SV=1

MSKLGRAARGLRKPEVGGVIRAIVRAGLAMPGPPLGPVLGQRGVSINQFCKEFNERTKDI  
KEGIPLPTKILVKPDRTFEIKIGQPTVSYFLKAAAGIEKGARQTGKEVAGLVTLKHVYEI  
ARIKAQDEAFALQDVPLSSVRSIIGSARSLGIRVVKDLSSSEELAAFQKERAIFLAAQKE  
ADLAAQEAAKK

>sp|Q6P1L8|RM14\_HUMAN 39S ribosomal protein L14, mitochondrial OS=Homo sapiens GN=MRPL14  
PE=1 SV=1

MAFFTGLWGPFTCVSRVLSHHCFSTTGSLSAIQMTRVRVVDNSALGNSPYHRAPRCIHV  
YKKNVGKVGVDQILLAIKGQKKKALIVGHCMGPRMTPRFDSNNVLIEDNGNPVGTRIK  
TPIPTSLRKREGEYSKVLAIQNFV

>sp|Q9NRX2|RM17\_HUMAN 39S ribosomal protein L17, mitochondrial OS=Homo sapiens GN=MRPL17  
PE=1 SV=1

MRLSVAIAISHGRVFRMGLGPESRIHLLRNLLTGLVRHERIEAPWARVDEMRYAEKLI  
DYGKLGDTNERAMRMADFWLTEKDLIPKLFQVLAPRYKDQTGGYTRMLQIPNRSLDRAKM  
AVIEYKGNCLPPLPLPRRDSHLTLNQLLQGLRQDLRQSQEASNHSHTAQTPGI

>sp|Q7Z2W9|RM21\_HUMAN 39S ribosomal protein L21, mitochondrial OS=Homo sapiens GN=MRPL21  
PE=1 SV=2

MAASSLTVTGLRLASACSHSILRPSGPGAASLWSASRRFNSQSTSYLPGYVPKTSLSPP  
WPEVVLDPVEETRHHAEEVVKVNEMIVTGQYGRFAVVHFASRQWKVTSDELILIGNEL  
DLACGERIRLEKVLLVGADNFTLLGKPLLKDLVRVEATVIEKTESWPRIIMRFRKRKNF  
KKKRIVTTPQTVLRINSIEIAPCLL

>sp|Q5TA31|RN187\_HUMAN E3 ubiquitin-protein ligase RNF187 OS=Homo sapiens GN=RNF187 PE=1  
SV=2

MALPAGPAEAACALCQRAPREPVRADCGHRFCRACVVRFWAEEDGPFPCPECADDCWQRA  
VEPGRPPLSRLLALEEAAAAPARDGPASEAALQLLCRADAGPLCAACRMAAGPEPPEWE  
PRWRKALRGKENKGSVEIMRKDLNDARDLHGQAESAAVWKGHVMDRRKKALTDYKKLRA  
FFVEEEEHFLQEAKEEGLPEDELADPTERFRSLLQAVSELEKKHRNLGLSMLLQ

>sp|Q92730|RND1\_HUMAN Rho-related GTP-binding protein Rho6 OS=Homo sapiens GN=RND1 PE=1  
SV=1

MKERRAPQPVVARCKLVLVGDVQCGKTAMLQVLAKDCYPETYVPTVFENYTACLETEEQR  
VELSLWDTSGSPYYDNVRPLCYSDSAVLLCFDISRPETVDSALKKWRTEILDYCPSTRV  
LLIGCKTDLRTDLSTLMELSHQKQAPISYEQGCAIAKQLGAEIYLEGSAFTSEKSIHSIF  
RTASMLCLNKPSPLPQKSPVRSLSKRLLHPSRSELISSTFKKEKAKSCSIM

>sp|Q9UBS8|RNF14\_HUMAN E3 ubiquitin-protein ligase RNF14 OS=Homo sapiens GN=RNF14 PE=1  
SV=1

MSEDREAQDELLALASIYDGDEFKRAESVQGGETRIYLDLPQNFKIFVSGNSNECLQN  
SGFEYTICFLPPLVNFELPPDYSSSPSFTLSGKWLSPQTLSALCKHLDNLWEEHRGS  
VVLFAWMQFLKEETLAYLNIVSPFELKIGSQKKVQRRTAQSPNTELDGGAAGSDVDQE  
EIVDERAVQDVESLNLIQEILDFDQAQKICFNSKFLCSICFCEKLGSECMYFLECRH  
VYCKACKDYFEIQIRDGQVCLNCPEPKCPSVATPGQVKELVEAELFARYDRLLLQSSL  
DLMADVVCPRPCCQLPVMQEPGCTMGICSSCNFAFCTLCLRTYHGVSPCKVTAEKMDL  
RNEYLQADEANKRLLDQRYGKRVIQKALEEMESKEWLEKNSKSCPCCGTPIEKLDGCNKM

TCTGCMQYFCWICMGSLSRANPYKHFNDPGSPCFNRLFYAVDVDDDIWEDEVED

>sp|Q9H2S5|RNF39\_HUMAN RING finger protein 39 OS=Homo sapiens GN=RNF39 PE=2 SV=2

MWWRDLTRLRLWLKREAIPEGGRKAAKVNAGVGEKGIYTASSRGGPPSARSKAVTVVAEG  
AASRSWLSMDAPELGPGGLVERLEQLATCPLCGGSFEDPVLLACEHSFCRACLARRWGTPP  
ATGTEASPTACCCGLPCPRRSLRSNVRLAVEVRISRELREKLAEPGARAGRRRGRIPT  
MGCLDLPGEDMRKTWRRFEVPTSKSSNSEDDLPEYDPVVKMLHRLTADLTLDPGTAHRR  
LLISADRRSVQLAPPPTAPPDGPGRFDQLPAVLGAQGFAGRHCEVETADAASCRDSS  
GEDADDEESHYAVGAAGESVQRKGCVRLCPAGAVWAVEGRGGRLWALTAPEPTLLGGVEP  
PPRRIRVDLDWGERGRAFYDGRSLDLLYAFQAPGPLGERIFPLFCTCDPRAPLRIVPAES

>sp|Q5M7Z0|RNFT1\_HUMAN RING finger and transmembrane domain-containing protein 1 OS=Homo sapiens GN=RNFT1 PE=2 SV=2

MPLFLLSLPTPPSASGHERRQRPEAKTSGSEKKYLRAMQANRSQLHSPPGTGSSSEDASTP  
QCVHTRLTGEGSCPHSGDVHIQINSIPKECAENASSRNIRSGVHSCAHGCVHSRLRGHSH  
SEARLTDDTAAESGDHGSSSFSEFRYLFKWLQKSLPYILILSVKLVMQHITGISLGIGLL  
TTFMYANKSIVNQVFLRERSSKIQCAWLLVFLAGSSVLLYYTFHSQSLYYSLIFLNPTLD  
HLSFWEVFWIVGITDFILKFFFMGLKCLILLVPSFIMPFSKSGYWMLLEELCQYYRTFV  
PIPVWFRYLISYGEFGNVTRWSLGILLALLYLILKLEFFGHLRTRQVLRIFFTQPSYG  
VAASKRQCSVDDDICSICQAEFQKPILLICQHIFCEECMTLWFNREKTCPLCRTVISDHI  
NKWKDGATSSHLQIY

>sp|Q8TDP1|RNH2C\_HUMAN Ribonuclease H2 subunit C OS=Homo sapiens GN=RNASEH2C PE=1 SV=1

MESGDEAAIERHRVHLRSATLRDAVPATLHLLPCEVAVDGPAPVGRFFTPAIRQGPEGLE  
VSFRGRCLRGEEVAVPPGLVGVMVTEKKVSMGKPDPLRDSGTDDQEEEPLEDRDFRFI  
GATANFSRFTLWGLETPGPDAKVRGALTWPSLAAAIHAQVPED

>sp|P19474|R052\_HUMAN E3 ubiquitin-protein ligase TRIM21 OS=Homo sapiens GN=TRIM21 PE=1 SV=1

MASAARLTMMWEEVTCPICLDPFVEPVSIIEGHSFCQECISQVGKGGGSVCPVCRQRFL  
KNLRPNRQLANMVNNLKEISQEAREGTQGERCAVHGERLHLFCEKD GKALCWCAQSRKH  
RDHAMVPLEEAAQEYQEKQLVALGELRRKQELAEKLEVEIAIKRADWKKTIVETQKSRIHA  
EFVQQKNFLVEEEQRQLQELEKDEREQLRIIGEKEAKLAQSQALQELISELDRRCHSSA  
LELLQEVIIVLSESWNLKDLDTSPELRSVCHVPGLKKMLRTCAVHITLDPDTANPWL  
ILSEDRRQVRLGDTQQSIPGNEERFDSYPMVLGAQHFHSGKHWEVDVTGKEAWDLGVCR  
DSVRRKGHFLSSKSGFWTIWLWNKQKYEAGTYPQTPLHLQVPPCQVGIFLDYEAGMVSF  
YNITDHGSLIYSFSECAFTGPLRPFSPGFNDGGKNTAPLTLCPNLIGSQGSTDY

>sp|075116|ROCK2\_HUMAN Rho-associated protein kinase 2 OS=Homo sapiens GN=ROCK2 PE=1 SV=4

MSRPPPTGKMPGAPETAPGDGAGASRQRKLEALIRDPRSPINVESLLDGLNSLVLDLDFP  
ALRKNKNIDNFLNRYEKIVKKIRGLQMKAEYDVVKVIGRGAFGEVQLVRHKASQKVYAM  
KLLSKFEMIKRSDSAFFWEERDIMAFANSPWVVLFFAFQDDRYLYMVMEYMPGGDLVNL  
MSNYDVPEKWAKFYTAEVVLALDAIHSMLIHRDVKPDNMLLDKHGHLKLADFGTCMKMD  
ETGMVHCDAVGTPDYISPEVLKSQGGDGFYGRECDWWSVGVFLEYMLVGDTPFYADSLV  
GTYSKIMDHKNSLCFPEDAEISKHAKNLICAFITDREVRLGRNGVEEIRQHPFFKNDQWH  
WDNIRETAAPVVPPELSSDIDSSNFDDIEDDKGDVETFPKAFVGNQLPFIFGFTYYREN  
LLSDSPSCRETDSIQSRKNEESQETQKKLYTLEEHLNEMQAKEELEQKCKSVNTRLEKT  
AKELEEEITLRKSVESALRQLEREKALLQHNAEYQRKADHEADKKRNLENDVNSLKDQL  
EDLKKRNQNSQISTEKVNQLQRQLDETALLRTESDTAARLRKTAESSKQIQLESNNR

DLQDKNCLLETAKLKLEKEFINLQSALESERRDRTHGSEIINDLQGRICGLEEDLKNGKI  
LLAKVELEKRQLQERFTDLEKEKSNAMEIDMTYQLKVIQQSLEQEEAEHKATKARLADKNK  
IYESIEEAKSEAMKEMEKKLLEERTLKQKVENLLEAEKRCSLLDCDLKQSQKINELLK  
QKDVLNEDVRNLTLEQETQKRCLTQNDLKMQTQQVNTLKMSEKQLKQENNHLMEMKMN  
LEKQNAELRKERQDADGQMKELQDQLEAEQYFSTLYKTQVRELKEECEETKLKGELQQK  
KQELQDERDSLAAQLEITLTKADSEQLARSAIEEQYSDLEKEKIMKELEIKEMMARHKQE  
LTEKDATIASLEETNRTLTSVDANLANEKEELNNKLKDVQEQLSRLKDEEISAAAIKAQF  
EKQLLTERTLKTQAVNKLAEIMNRKEPVKRGNDTDVRRKEKENRKLHMLKSEREKL TQQ  
MIKYQKELNEMQAQIAEESQIRIELQMTLDSKSDIEQLRSQLQALHIGLDSSSIGSGPG  
DAEADDGFPEsrLEGWLSLPVRNNTKKFGWVKYVIVSSKKILFYDSEQDKEQSNPYMVL  
DIDKLFHVRPVTQTDVYRAAKEIPRIFQILYANEGESKKEQEFVPEPVGEKSNIYCHKG  
HEFIPTLYHFPTNCEACMKPLWHMFKPPPALCRRCHIKCHKDHMDKKEEIIAPCKVYYD  
ISTAKNLLLLLANSTEEQQKWVSRLVKKIPKKPPAPDPFARSSPRTSMKIQQNQSIRRPSR  
QLAPNKPS

>sp|P60602|ROMO1\_HUMAN Reactive oxygen species modulator 1 OS=Homo sapiens GN=ROMO1 PE=1  
SV=1

MPVAVGPGYQSQSPSCFDRVKMGFVMGCAVGMAAGALFGTFSCLRIGMRGREL MGGIGKTM  
MQSGGTFGTFMAIGMGIRC

>sp|Q9HAT0|ROP1A\_HUMAN Ropporin-1A OS=Homo sapiens GN=ROPN1 PE=1 SV=2

MAQTDKPTCIPPELPKMLKEFAKAAIRVQPQDLIQAADYFEALSRGETPPVRERSERVA  
LCNRAELTPELLKILHSQVAGRLIIRAEELAQMWKVVNLPTDLFNSVMNVGRFTEEIEWL  
KFLALACsALGVTITKTLKIVCEVLSCDHNGGSPRIPFSTFQFLYTYIAKVDGEISASHV  
SRMLNYMEQEVIGPDGIITVNDFTQNPRVQLE

>sp|Q01974|ROR2\_HUMAN Tyrosine-protein kinase transmembrane receptor ROR2 OS=Homo sapiens  
GN=ROR2 PE=1 SV=2

MARGSALPRRPLLCIPAVWAAAALLSVSRTSGEVEVLDPNDPLGPLDGDGPIPTLKGY  
FLNFLEPVNNITIVQGQTALHCKVAGNPPPNVRWLKNDAPVVQEPRRIIRKTEYGSRL  
RIQDLDTTDTGGYQCVATNGMKTITATGVLFVRLGPTHSPNHNFDQDYHEDGFCQPYRGI  
ACARFIGNRTIYVDSLQMQGEIENRITAAFTMIGTSTHLSQCSQFAIPSFCHFVFPLCD  
ARSRTPKPRELCRDECEVLES DLCRQEYTIARSNPLILMRLQLPKCEALPMPESPDAANC  
MRIGIPAERLGRYHQCYNGSGMDYRGTA STTKSGHQCPWALQHPHSHHLSSTDFPELGG  
GHAYCRNPGGQMEGPWCFTQKNVRMELCDVPSCSPRDSKMGILYILVPSIAIPLVIAC  
LFFLVCMCRNKQKASASTPQRRQLMASPSQDMEEMPLINQHKQAKLKEISLSAVRFMEELG  
EDRFGKVYKGHLFGPAPGEQTQAVAIKTLKDKAEGPLREEFRHEAMLRLQHPNVVCLL  
GVVTKDQPLSMIFS YCSHGDLHEFLVMRSPHSDVGSTDDDRTVKSALEPPDFVHLVAQIA  
AGMEYLSSHVVHKDLATRNLVYDKLVKISDLGLFREYAADYYKLLGNSLLPIRWMA  
PEAIMYGKFSIDSDIWSYGVVLWEVFSYGLQPYCGYSNQDVVEMIRNRQVLPCDDCPAW  
VYALMIECWNEFPsRRPRFKDIHSRLRAWGNLSNYSSAQTS GASNTTQTSSLSTSPVSN  
VSNARYVGPQKQAPFPQPQFIPMKGQIRPMVPPPQLYVPVNGYQVPVPAYGAYLPNFYPV  
QIPMQMAPQQVPPQMPKPSHHSGSGSTSTGYVTTAPSNTSMADRAALLSEGADDTQNA  
PEDGAQSTVQEAEEEEEGSVPETELLGDCDTLQVDEAQVQLEA

>sp|P35398|RORA\_HUMAN Nuclear receptor ROR-alpha OS=Homo sapiens GN=RORA PE=1 SV=2

MESAPAAPDPAASEPGSSGADAAAGSRETPLNQESARKSEPPAPVRRQSYSSSTRGISVT  
KKTHTSQIEIIPCKICGDKSSGIHYGVITCEGCKGFFRRSQSNATYSCPRQKNCLIDRT

SRNRCQHCLRLQKCLAVGMSRDAVKFGRMSKKQRDSLYAEVQKHRMQQQQRDHQQQPGEAE  
PLTPTYNISANGLTELHDDL SNYIDGHTPEGSKADSAVSSFYLDIQSPDQSGLDINGIK  
PEPICDYTPASGFFPYCSFTNGETSPTVSMAELEHLAQNISKSHLETQYLREELQQITW  
QTFLQEEIENYQNKQREVMWQLCAIKITEAIQYVVEFAKRIDGFMELCQNDQIVLLKAGS  
LEVVFIRMCRAFDSQNNTVYFDGKYASPDVFKSLGCEDFISFVFEFGKSLCSMHLTEDEI  
ALFSAFVLMSADRSWLQEKVKIEKLQQKIQLALQHV LQKNHREDGILTKLICKVSTLRAL  
CGRHTEKLMAFKAIYPDIVRLHFPPLYKELFTSEFEPAMQIDG

>sp|Q8TA86|RP9\_HUMAN Retinitis pigmentosa 9 protein OS=Homo sapiens GN=RP9 PE=1 SV=2

MSSRPGREDVGAAGARRPREPPEQELQRRREQKRRRHDAQQLQQLKHLESFYEKPPPGLI  
KEDETKPEDCIPDVPGNEHAREFLAHAPTKGLWMP LGKEVKVMQCWRCKRYGHRTGDKEC  
PFFIKGNQKLEQFRVAHEDPMYDIIRDNRHEKDVRIQQLKQLLEDSTSEDRSSSSSE  
GKEKHKKKKKKKEKHKKRKKKKKKKKRKHKS KSSNEGSDSE

>sp|Q9H9Y6|RPA2\_HUMAN DNA-directed RNA polymerase I subunit RPA2 OS=Homo sapiens GN=POLR1B  
PE=1 SV=2

MDPGSRWRNLPSGPSLKHLDTPSYGIPREQQKAALQELTRAHVESFNYAVHEGLGLAVQA  
IPPFEF AFKDERISFTILDAVISPTVPKGTICKEANVYPAECRGRSTYRGKLTADINW  
AVNGISKGI IKQFLGYVPI MVKSKLCNLRNLPPQALIEHHEEAEMGGFYIINGIEKVIR  
MLIMPRRNFIAMIRPKWKTRGPGYTQYGVSMHCVREEHSAVNMNLHYLENGTVMLNFIY  
RKELFFLPLGFALKALVSFSYQIFQELIKGKEDDSFLRNSVSQMLRIVMEEGCSTQKQV  
LNYLGECFRVKLNVPDWYPNEQAAEFLNQ CICIHLKSNTTEKFYMLCLMTRKLFALAKGE  
CMEDNPDSLVNQEV LTPGQLF LMFLEKLEGWLVS IKIAFDKKAQKTSVSMNTDNLMRIF  
TMGIDLTKPFEYLFATGNLRSKTGLGLLQDSGLCVVADKLNFI RYLSHFRCVHRGADFAK  
MRTTTVRRLLPESWGFLCPVHTPDGEPGLMNLHTAVCEVVTQFVYTASIPALLCNLGVT  
PIDGAPHRSYSECYPVLLDGV MVGWVDKDLAPGIADSLRHFKVLREKRIPPWMEVVLIPM  
TGKPSLYPGLFLFTTPCRLVRPVQNALGKEELIGTMEQIFMNVAIFEDEVFAGVTTHQE  
LFPHSLLSVIANFIPFSDHNQSPRMYQCQMGKQTMGFPLLT YQDRSDNKLYRLQTPQSP  
LVRPSMYDYYMDNYP IGTNAIVAVISYTG YDMEDAMIVNKASWERGFAHGSVYKSEFID  
LSEKIKQGDS SSVFGIKPGDPRVLQKLDDDGLPFIGAKLQYGD PYYSYLNLTGESFVMY  
YKSKENCVV DNIKVCSNDTSGSKFKVCITMRVPRNPTIGDKFASRHGQKGILSRLWP AE  
DMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALHGLCHDATPFIFSEENSALE  
YFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGV VYYQRLRHMVSDKFQVRTTGARDR  
VTNQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCVKCGSLLSPL  
LEKPPPSWSAMRNRKYNCTLCRSRSDTIDTVSVPYVFRYFVAELAAMNIKVKLDVV

>sp|Q9GZS1|RPA49\_HUMAN DNA-directed RNA polymerase I subunit RPA49 OS=Homo sapiens  
GN=POLR1E PE=1 SV=2

MYQASAVSLLPRDIPSCHSPSPGFSHLPTSSSQLAPDLLQFPLGQDPSFLAIPILTLP PS  
DSLVPPIYIVWYIWP SALISFLGCTLT VQFSNGKLQSPGNMRFTLYENKDSTNPRKRNR  
ILAAETDRLSYVGN NFGTGALKCNTLCRH FVGILNKTSQGMEVYDAELFNMQPLFSDVSV  
ESELALESQTKTYREKMDSCIEAFGTTKQKRALNTRMNRVGNESLNR AKAETIIDT  
KGV TALVSDAIHNDLQDDSLYLPPCYDDAAKPEDVYKFEDLLSPA EYEALQSPSEAFRNV  
TSEEILKMI EENSHCTFVIEALKSLPSDVESRDRQARCIWFLDTLIK FRAHRVVKRKSAL  
GPGVPHIINTKLLKHFTCLTYNNGRLRN LISDSMKAKITAYV IIALHIHDFQIDLTVLQ  
RDLK LSEKRMMEIAKAMRLKISKRRVSVAAGSEEDHKLGTLSLPLPPAQTSDRLAKRRKI

T



>sp|P62487|RPB7\_HUMAN DNA-directed RNA polymerase II subunit RPB7 OS=Homo sapiens  
GN=POLR2G PE=1 SV=1

MFYHISLEHEILLHPRYFGPNLLNTVKQKLFTEVEGTCTGKYGFVIAVTTIDNIGAGVIQ  
PGRGFVLYPVKYKAIVFRPFKGEVVDVAVTQVNVKVLFTFEGPMSCFISRHSIPSEMEFD  
PNSNPPCYKTMDEDIVIQDDEIRLKIVGTRVDKNDIFAIGSLMDDYGLVS

>sp|P36954|RPB9\_HUMAN DNA-directed RNA polymerase II subunit RPB9 OS=Homo sapiens  
GN=POLR2I PE=1 SV=1

MEPDGTYEPGFVGIRFCQECNNMLYPKEDKENRILLYACRNCYQQEADNSCIYVKNKITH  
EVDELTTQIIADVSQDPTLPRTEHPCQKCGHKEAVFFQSHSARAEDAMRLYYVCTAPHCG  
HRWTE

>sp|Q8N122|RPTOR\_HUMAN Regulatory-associated protein of mTOR OS=Homo sapiens GN=RPTOR  
PE=1 SV=1

MESEMLQSPLLGLGEDEADLTDWNLPLAFMKKRHCEKIEGSKSLAQSWRMKDRMKTVSV  
ALVLCNLNVGVDPPDVVKTTPCARLECWIDPLSMGPQKALETIGANLQKQYENWQPRARYK  
QSLDPTVDEVKKLCTSLRRNAKEERVLFHYNHGHVPRPTVNGEVVFNKNYTYIPLSIY  
DLQTMGSPSIFVYDCSNAGLIVKSFKQFALQREQELEVAAINPNHPLAQMPLPPSMKNC  
IQLAACEATELLPMIPDLPADLFTSCLTTPIKIALRWFCMQKCVSLVPGVTLDLIEKIPG  
RLNDRRTPLGELNWIPTAITDTIAWNVLPRDLFQKLFRQDLLVASLFRNFLAERIMRSY  
NCTPVSSPRLPPTYMHAMWQAWDLAVDICLSQLPTIIIEGTAFRHSPFFAEQLTAFQVWL  
TMGVENRNPPEQLPIVLQVLLSQVHRLRALDLLGRFLDLGPWAVSLALSVGIFPYVLKLL  
QSSARELRPLLVIWAKILAVDSSCADLVKDNHGYFLSVLADPYMPAEHRTMTAFILA  
VIVNSYHTGQEACLQGNLIAICLEQLNDPHPLLQWVAICLGRIWQNFDSARWCGVRDSA  
HEKLYSLSDPIPEVRCAAVFALGTFTVGNASERTDHSTTIDHNVAMMLAQLVSDGSPMVR  
KELVVALSHLVVQYESNFCTVALQFIEEEKNYALPSPATTEGGSLTPVRDSPCTPRLRSV  
SSYGNIRAVATARSNLKSLQNLSTTESSGGAFAFSPGNLSTSSSASSTLGSPENEEHILS  
FETIDKMRRASSYSSLSNLIGVSFNSVYTQIWRVLLHLAADPYPEVSDVAMKVLNSIAYK  
ATVNARPQRVLDTSSLTQSAPASPTNKGVHIHQAGGSPPASSTSSSSLTNDVAKQPVSRD  
LPSGRPGTTGPAGAQYTPHSHQFPRTKMFDDKGPEQTADDADDAAGHKSFIATVQTGFC  
DWSARYFAQPMVKIPEEHDLESQIRKEREWFLRNSRVRRQAQQVIQKGITRLDDQIFLN  
RNPGVPSVVKFHPFTPCIAVADKDSICFWDWEKGEKLDYFHNGNPRYTRVTAMEYLNQD  
CSLLLATDDGAIRVWKNFADLEKNPEMVTAWQGLSDMLPTTRGAGMVVDWEQETGLLMS  
SGDVRIVRIWDTDREMKVQDIPTGADSCVTSLSCDSHRSLIVAGLGDGSIQVYDRRMALS  
ECRVMTYREHTAWVVKASLQKRPDGHIVSVSVNGDVRIQDPRMPESVNLQIVKGLTALD  
IHPQADLIACGSVNQFTAIYNSSGELINNIKYDGMGQVRVGAISCLAFHPHPLAVGS  
NDYYISVYSVEKVR

>sp|Q8TAA1|RNS11\_HUMAN Probable ribonuclease 11 OS=Homo sapiens GN=RNASE11 PE=2 SV=1

METFPLLLLSLGLVLAASESTMKIIKEEFTDEEMQYDMAKSGQEKQTEILMNPILLVK  
NTLSMSKDDMSSTLLTFRSLHYNDPKGNSSGNDKECCNDMTVWRKVSEANGSCKWSNNF  
IRSTEVMRRVHRAPSCKFVQNPGISCCESLELENTVCQFTTGKQFPRCQYHSVTSLEKI  
LTVLTGHSLMSWLVCCKSL

>sp|Q5GAN3|RNS13\_HUMAN Probable inactive ribonuclease-like protein 13 OS=Homo sapiens  
GN=RNASE13 PE=2 SV=1

MAPAVTRLLFLQLVLGPTLVMDIKMQIGSRNFYTLSDYPRVNYPKGFRGYCNGLMSYMR  
GKMQNSDCPKIHVYIHAPWKAIQKFKYSDSFCENYNEYCTLTQDSLPIITVCSLSHQPP

TSCYYNSTLTNQKLYLLCSRKYEADPIGIAGLYSGI

>sp|Q13151|ROAO\_HUMAN Heterogeneous nuclear ribonucleoprotein A0 OS=Homo sapiens  
GN=HNRNPA0 PE=1 SV=1

MENSQLCKLFIGGLNVQTSESGLRGHFEAFGTLTDCVVVVNPQTKRSRCFGFVTYSNVEE  
ADAAMAASPHAVDGNVELKRAVSREDSARPGAHAKVKKLFVGGKGDVAEGDLIEHFSQ  
FGTVEKAEIIADKQSGKKRGFGFVYFQNHDAADKAAVVKFHPIQGHRVEVKKAVPKEDIY  
SGGGGGSRSSRGGRGGRGGRDQNGLSKGGGGGYSYGGYGGGGGGYNAYGGGGGG  
SSYGGSDYGNFGFGFSYSQHQSSYGPMSKGGGGGGGSSWGGRSNGPYRGGYGGGGGY  
GGSSF

>sp|Q9Y6N7|ROB01\_HUMAN Roundabout homolog 1 OS=Homo sapiens GN=ROB01 PE=1 SV=1

MKWKHPFLVMISLLSLSPNHLFLAQLIPDPEDVERGNDHGTPIPTSDNDDNSLGYTGSR  
LRQEDFPPRIVEHPSDLIVSKGEPATLNCKAEGRPPTIEWYKGERVETDKDDPRSHRM  
LLPSGSLFFLRIVHGRKSRPDEGVYVCVARNYLGEAVSHNASLEVAILRDDFRQNPSDVM  
VAVGEPAVMECQPPRGHPEPTISWKKDGSPLDDKDERITIRGGKLMITYTRKSDAGKYVC  
VGTNMVGERESEVAELTVLERPSFVKRPSNLAVTVDDSAEFKCEARGDPVPTVRWRKDDG  
ELPKSRYEIRDDHTLKIRKVTAGDMGSYTCVAENMVGKAEASATLTVQEPHFVVKPRDQ  
VVALGRTVTFQCEATGNPQPAIFWRREGSQNLLFSYQPPQSSSRFSVSQTGDLTITNVQR  
SDVGYIQCQLNVAGSIITKAYLEVTDVIADRPPVIRQGPVNQTVAVDGTFLSCVATG  
SPVPTILWRKDGVLVSTQDSRIKQLENGVLQIRYAKLGDTRYTCIASTPSGEATWSAYI  
EVQEFQVVPVPPRPDNLIPSAPSKPEVTDVSRNTVTLQPNLNSGATPTSIIIEAFS  
HASGSSWQTVANVTETSAIKGLKPNAIYFLVRAANAYGISDPSQISDPVKTDVLPT  
SQGVDHKQVQRELGNVHLHNPTVLSSSSIEVHWTVDQSQYIQGYKILYRPSGANHGE  
SDWLVEFVRTPAKNSVVIPDLRKGVNYEIKARPPFFNEFQAGDSEIKFAKTLEEAPSAPPQ  
GVTVSKNDGNGTAILVSWQPPPEDTQNGMVQEYKVCWCLGNTRYHINKTVDGSTFSVIP  
FLVPGIRYSVEVAASTGAGSGVKSEPFQIQLDAHGNPVSPEDQVSLAQQISDVVKQPAFI  
AGIGAACWIIILMVFSIWLYRHRKKRNLSTYAGIRKVPSTFTPTVTVYQRGGEAVSSGG  
RPGLLNISEPAAQPWLADTWPNTGNNHNDCSISCCTAGNGNSDSNLTTYSRPADCIANYN  
NQLDNKQTNMLPESTVYGDVLSNKNEMKTFNSPNLKDGRFVNPSGQPTPYATTQLIQ  
SNLSNNMNGSGDSGEKHWKPLGQQKQEVAPVQYNIVEQNKLNKDYRANDTVPTIPYNQ  
SYDQNTGGSYNSSDRGSSTSGSQGHKKGARTPKVPKQGGMNWADLLPPPPAHPPPHSNSE  
EYNISVDESVDQEMPCPVPPARMYLQQDELEEEEDERGPTPPVRGAASSPAVSYSHQST  
ATLTPSPQEELQPMLQDCPEETGHMQHPDRRRQPVSPPPPRPISPPTYGYISGPLVS  
DMDTDAPEEEDEADMEVAKMQTRRLRLGLEQTPASSVGDLSSVTGSMINGWGSASEE  
DNISSGRSSVSSSDGSFFTADFAQAVAAAAEYAGLKVARRQMQDAAGRHRHFHASQCPRP  
TSPVSTDSNMSAAMVQKTRPAKKLKHQPGHLRRETYTDDLPPPPVPPPAIKSPTAQSKTQ  
LEVRPVVVPKLPSMDARTDRSSDRKGSSYKGREVL DGRQVDMRTNPGDPREAEQQNDG  
KGRGNKAAKRDLPKAKTHLIQEDILPYCRPTFTPTSNNPRDPSSSSSSMRGSGSRQREQA  
NVGRRNIAEMQVLGGYERGEDNNEELEETES

>sp|Q13464|ROCK1\_HUMAN Rho-associated protein kinase 1 OS=Homo sapiens GN=ROCK1 PE=1 SV=1

MSTGDSFETRFKMDNLLRDPKSEVNSDCLLDGLDALVYDLDFPALRKNKNIDNFLSRYK  
DTINKIRDLRMKAEDYEVVKVIGRGAFGEVQLVRHKSTRKVYAMKLLSKFEMIKRSDSAF  
FWEERDIMAFA NSPWVQLFYAFQDDRYLYMMEYMPGGDLVNLMSNYDVPEKWARFYTA  
EVLV LALDAI HSMGFIHRDVKPDNMLLDKSGHLKLADFGTCMKMNKEGMVRCDTAVGTPDY  
ISPEVLKSQGGDGYGRECDWWSVGVFLEYMLVGDTPFYADSLVGTYSKIMNHKNSLTFP

DDNDISKEAKNLICAFLTDREVRLGRNGVEEIKRHLFFKNDQWAWETLRDTPVAPVVDLS  
SDIDTSNFDDLEEDKGEEETFPIPKAFVGNQLPFVGFTYYSNRRYLSSANPNDNRTSSNA  
DKSLQESLQKTIYKLEELHNEMQLKDEMEQKCRTSNIKLDKIMKELDEEGNQRNLEST  
VSQIEKEKMILLQHRINEYQRKAEQENKRRNVENEVSTLKDQLEDLKKVSQNSQLANEKL  
SQLQKQLEEANDLLRTESDTAVRLRKSHTMSKSIQLESNRELQERNRILENSKSQTD  
KDYYQLQAILEAERRDRGHDSMIGDLQARITSLQEEVKHLKHNLEKVEGERKEAQDMLN  
HSEKEKNLEIDLNYKLSLQQRLEQEVNEHKVTKARLTDKHQSIEEAKSVAMCEMEKKL  
KEEREAREKAENRVVQIEKQCSMLDVLKQSQKLEHLTGNERMEDEVKNLTLQLEQES  
NKRLLQNELKTQAFEADNLKGLEKQMKQEINTLLEAKRLLEFELAQLTKQYRGNEGQMR  
ELQDQLEAEQYFSTLYKTQVKELKEEIEEKNRENKKIQELQNEKETLATQLDLAETKAE  
SEQLARGLLEEYFELTQESKKAASRNRQEITDKDHTVSRLEEANSMLTKDIEILRRENE  
ELTEKMKKAEYKLEKEEIEISNLKAAFEKNINTERTLKTQAVNKLAEIMNRKDFKIDRK  
KANTQDLRKKKEKENRKLQLELNQEREKFNQMVVKHQKELNDMQAQLVEECAHRNELQMQL  
ASKESDIEQLRAKLLDLS DSTSVASFPSADETDGNLPESRIEGWLSV PNRGNIKRYGWKK  
QYVVVSSKKILFYNDEQDKEQSNPSMVL DIDKLFHVRPVTQGDVYRAETEEIPKIFQILY  
ANECECRKDVEMEPVQQAECTNFQNHKGHEFIPTLYHFPANCDAKPLWHVFKPPPALE  
CRRCHVKHRDHLDDKEDLICPKVSYDVT SARDMLLLACSQDEQKKWVTHLVKKIPKNP  
PSGFVRASPRTLSTRSTANQSFRKVVKNTSGKTS

>sp|Q9BZX4|ROP1B\_HUMAN Ropporin-1B OS=Homo sapiens GN=ROPN1B PE=1 SV=1

MAQTDKPTCIPPELPKMLKEFAKAAIRAQPQDLIQWGADYFEALSRGETPPVRERSERVA  
LCNWAELTPELLKILHSQVAGRLIIRAEELAQMWKVVNLPTDLFNSVMNVGRFTEEIEWL  
KFLALAC SALGVTITKTLKIVCEVLSCDHNGGLPRIPFSTFQFLYTYIAEVDGEICASHV  
SRMLNYIEQEVIGPDGLITVNDFTQNPRVWLE

>sp|Q92753|RORB\_HUMAN Nuclear receptor ROR-beta OS=Homo sapiens GN=RORB PE=1 SV=3

MCENQLKTKADATAQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQNNASYSCPRQ  
RNCLIDRTNRNRCQHCLRLQKCLALGMSRDAVKFGRMSKKQRDSLAEVQKHQQRLQEQRQ  
QQSGEAEALARVYSSSISNGLSNLNNETSGTYANGHVIDLPKSEGYYNVDSGQSPDQSG  
LDMTGIKQIKQEIYDLTSPVNLFTYSSFNNGQLAPGITMTEIDRIAQNIKSHLETCQY  
TMEELHQLAWQHTHYEEIKAYQKSREALWQQCAIQITHAIQYVVEFAKRITGFMELCQN  
DQILLKSGCLEVVLVRCRAFNLNNTVLFEGKYGGMMFKALGSDDL VNEAFDFAKNL  
CSLQLT EEEIALFSSAVLISPRAWLIEPRKVQKLQEKIYFALQHVIQKHNLDDETLAKL  
IAKIPTITAVCNLHGEKLQVFKQSHPEIVNTLFPPLYKELFNPDCATGCK

>sp|Q3B726|RPA43\_HUMAN DNA-directed RNA polymerase I subunit RPA43 OS=Homo sapiens  
GN=TWISTNB PE=1 SV=1

MAAGCSEAPRPAASDGLVGAGVLPCELEPTYAAACALVNSRYSCLVAGPHQRHIALS  
PRYLNKRRTGIREQLDAELLRYSLLGVPIAYDNIKVVGELGDIYDDQGHIHLNIEADF  
VIFCPEPGQKLMGIVNKVSSSHIGCLVHGCFNASIPKPEQLSAEQWQTMEINMGDELEFE  
VFRDSDAAGVFCIRGKLNITSLQFKRSEVSEEVTEENGTEEA AKPKKKKKKKDPETYEY  
DSGTTKLADDDTPMEESALQNTNANGIWEEEPKKKKKKKKH QEVQDQDPVFQGS DSS  
GYQSDHKKKKKKRKHSEEA EFTPLKCSPKRK GKS NFL

>sp|Q9BUI4|RPC3\_HUMAN DNA-directed RNA polymerase III subunit RPC3 OS=Homo sapiens  
GN=POLR3C PE=1 SV=1

MTQAEIKLCSLLQEHFGEIVEKIGVHLIRTGSQPLRVIAHDTGTSLDQVKKALCVLVQH  
NLVSYQVHKRGVVEYEAQCSRVLRLRYPRYIYTTKTLYSDTGELIVEELLNGLTMSA

VVKKVADRLTETMEDGKTM DYAEVSNTFVRLADTHFVQRCPSVPTTENS DPGPPPPAPTL  
VINEKMYLVPKLSLIGKGKRRRSSDEDAAGEPKAKRPKYTTDNKEIPDDGIYWQANLD  
RFHQHFRDQAI VSAVANRMDQTSS EIVRTMLRMSEITTSSSAPFTQPLSSNEIFRSLPVG  
YNISKQVLDQYL TLLADDPLEFVGKSGDGGGMVYNLHKALASLATATLESVVQERFGS  
RCARIFRLVLQKKHIEQKQVEDFAMIPAKEAKDMLYKMLSENFM SLQEIPKTPDHAPSRT  
FYLYTVNILSAARMLLHRCYKSIANLIERRQFETKENKR LLEKSQRVEAIIASMQATGAE  
EAQLQEIEEMITAPERQQLETLKRNVNKL DASEIQVDETIFLLESYIECTMKRQ

>sp|Q8WZA2|RPGF4\_HUMAN Rap guanine nucleotide exchange factor 4 OS=Homo sapiens GN=RAPGEF4  
PE=1 SV=1

MVAHAHAHSSSSAEWIACLDKRPLERSSEDVDIIFTRLKEVKA FEKFHPNLLHQICLCGY  
YENLEKGITLFRQGDIGTNWYAVLAGSLDVKVSETSSHQDAVTICTLGIGTAFGESILDN  
TPRHATIVTRESSELLRIEQKDFKALWEKYRQY MAGLLAPPYGV METGSNNDRIPDKENT  
PLIEPHVPLRPANTITKVPSEKILRAGKILRNAILSRAPHMIRDRKYHLKTYRQCCVGTE  
LVDWMMQQTCPVHSRTQAVGMWQV LLEDGVLNHVDQEHHFQDKYLFYRFLDDEHEDAPLP  
TEEEKKECDEELQDTMLLLSQMGPD AHMRMILRKPPGQRTVDDLEIIYEEL LHIKALSHL  
STTVKRELAVLIFESHAKGGTVLFNQEGGTSWYIILKGSVNVVIYKGGVVCTLHEGDD  
FGKLALVNDAPRAASIVLREDNCHFLRVDKEDFNRI LRDEANTVRLKEHDQDVLVLEKV  
PAGNRASNQGSQPPQKYTVMSGTPEKILEHFLETIRLEATLNEATDSVLNDFIMMHCVF  
MPNTQLCPALVAHYHAQPSQGT EQEKMDYALNNKRRVIRLVLQWAAMYGDLLQEDDV SMA  
FLEEFYVSVD DARMIAALKEQLPELEKIVKQISED AKAPQKKHKVLLQQFNTGDERA QK  
RQPIRGSD EVLFKVYCMDHTYTTIRVPVATSVKEVISAVADKLGS GGLIIVKMSSGGEK  
VVLKPNDSVFTTLTINGRLFACPREQFDSL TPLPEQEGPTVGTGTFELMSSKDLAYQM  
TIYDWELFNCVHELELIYHTFGRHNFKKTTANLDLFLRRFNEIQFWVTEICLCSQLSKR  
VQLKKFKIKIAAHCKEYKNLNSFFAIVMGLSNVAVSRLALTWEKLPSKFKKFYAEFESLM  
DPSRNHRAYRLTVAKLEPLIPFMPLLIKDMTF THEGNKTFIDNLVNF EKMRMIANTART  
VRYYSRQFPNPDAQAANKNHQDVRSYVRQLNVIDNQRTLSQMSHRLEPRRP

>sp|P47736|RPGP1\_HUMAN Rap1 GTPase-activating protein 1 OS=Homo sapiens GN=RAP1GAP PE=1  
SV=2

MIEKMQGSRMDEQRCSFPPLKTEEDYIPYPSVHEVLGREGPFPLILLPQFGGYWIEGTN  
HEITSIPETEPLQSPTTKVKLECNPTARIYRKHFLGKEHFNYYSLDAALGHLVFS LKYDV  
IGDQEHLRLLLRTKCRTHYDVIPISCLTEFPNVVQMAKLVCEDVNVD RFYPVLYPKASRL  
IVTFDEHVISNNFKGVIIYQKLGQTSEEELFSTNEESPAFVEFLEFLGQKVKLQDFKGR  
GGLDVTHGQTGTESVYCNRNKEIMFHVSTKL PYTEGDAQQLQRKRHIGNDIVAVVFQDE  
NTPFVPDMIASNFLHAYVVVQAEGGGPDGPLYKVSVTARDDVPFFGPPLPDPAVFRKGPE  
FQEFLTLKLINA EYACYKA EKFAKLEERTRAALETLYEELHIHSQMMGLGGDEDKMEN  
GSGGGGFESFKRVI RSRSQMDAMGLSNKKPNTVSTSHSGSFAPNNDLAKAAGISLIV  
PGKSPTRKKSGPFGSRSSAIGIENIQEVQEKRESPPAGQKTPDSGHVSQEPKSENSSTQ  
SSPEMPTTKNRAETA AQRAEALKDFSRSSSSASSFASVVEETEGVDGEDTGLESVSSSGT  
PHKRDSFIYSTWLED SVSTTSGGSSPGSPSRSPHPDAGKLGDPACPEIKIQLEASEQHMPQ  
LGC

>sp|Q9Y6S9|RPKL1\_HUMAN Ribosomal protein S6 kinase-like 1 OS=Homo sapiens GN=RPS6KL1 PE=2  
SV=1

MSLVACECLPSPGLEPEPCSRARSQAHVYLEQIRNRVALGVPDMTKRDYLVDAATQIRLA  
LERDVS EDEYAAFNHYQNGVDVLLRGIHVDPNKERREAVKLKITKYLRRAEEIFNCHLQR

PLSSGASPSAGFSSLRLRP IRTLSSAVEQLRGCRVVGVIKVLVQDPATGGTFVVKSLP  
RCHMVSRRERLTII PHGVPYMTKLLRYFVSEDSIFLHLEHVQGGTLWSHLLSQAHSRHSGL  
SSGSTQERMKAQLNPHLNLLTPARLP SGHAPGQDRIALEPPRTSPNLLLAGEAPSTRPQR  
EAEGEPTARTSTSGSSDLKAPGGHLHLQARRAGQNSDAGPPRGLTWVPEGAGPVLGGCG  
RGMDQSCL SADGAGRGCGRATWSVREEQVKQWAAEMLVALEALHEQGVLCRDLHPGNLLL  
DQAGHIRLTYFGQWSEVEPQCCGEAVDNLYSAPEVGGISELTEACDWSFGSLLYELLTG  
MALSQSHPSG IQAHTQLQLPEWLSRPAASLLTELLQFEPTRRLGMGEGGVSKLKSHPPFS  
TIQWSKLVG

>sp|Q7L523|RRAGA\_HUMAN Ras-related GTP-binding protein A OS=Homo sapiens GN=RRAGA PE=1  
SV=1

MPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATIDVEHSHVRFGLGNLVLNL  
WDCGGQDTFMENYFTSQRDNIFRNVEVLIYFVDESRELEKDMHYQSCLEAILQNSPDA  
KIFCLVHKMDLVQEDQRDLIFKEREEDLRRLSRPLECACFRTSIWDETLYKAWSSIVYQL  
IPNVQQLEMNLRNFAQII EADEVLLFERATFLVISHYQCKEQRDVHRFEKISNIIKQFKL  
SCSKLAASFQSM EVRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKL  
ERVDGPKHSLLMR

>sp|Q9NQL2|RRAGD\_HUMAN Ras-related GTP-binding protein D OS=Homo sapiens GN=RRAGD PE=1  
SV=1

MSQVLGKPPQDEDDAE EEEEEDELVGLADYGDGPDSSDADPD SGTEEGVLD FSDPFSTE  
VKPRILLMGLRRSGKSSIQKVV FHKMSPNETLFLESTNKICREDVSNS SFVNFQIWD FPG  
QIDFFDPTFDYEMIFRGTGALIFVIDSQDDYMEALARLHLTVTRAYKVNTDINFEVFIHK  
VDGLSDDHKIETQRDIHQ RANDDLADAGLEKIHLSFYLT SIYDHSIFEAFSKVVQKLIPQ  
LPTLENLLNIFISNSGIEKAFLFDVVS KIYIATDSTPVD MQTYELCCDMIDVVIDISCIY  
GLKEDGAGTPYDKESTAI IKLNNTTVLYLKEVTKFLALVCFVREESFERKGLIDYNFHC F  
RKAIHEVF EVRMKVVKSRKVQNR LQKKKRATPNGT PRVLL

>sp|Q9P015|RM15\_HUMAN 39S ribosomal protein L15, mitochondrial OS=Homo sapiens GN=MRPL15  
PE=1 SV=1

MAGPLQGGGARALDLLRGLPRVSLANLKPNPGSKKPERRPRGRRRGRKCGRGHKGERQRG  
TRPRLGFEGGQTPFYIRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSQPIDL TQ  
LVNGRGVTIQPLKR DYGVQLVEEGADTFTAKVNI EVQLASELAIAAIEKNGGVVTTAFYD  
PRSLDIVCKPVPFFLRGQPIPKRMLPPEELVPYYTDAKNRGYLADPAKFPEARLELARKY  
GYILPDITKDELFKMLCTRKDPRQIFFGLAPGWVNMADKKILKPTDENLLKYYTS

>sp|Q9NYK5|RM39\_HUMAN 39S ribosomal protein L39, mitochondrial OS=Homo sapiens GN=MRPL39  
PE=1 SV=3

MEALAMGSRALRLWL VAPGGGIKWRFIATSSASQLSPTELTEMRNDLFNKEARQLSLTP  
RTEKIEVKHVGTDPGT VFMNKNISTPYSCAMH LSEWYCRKSILALVDGQPWDMYKPLT  
KSCEIKFLTFKDCDPGEVNKAYWRSCAMMMGCVIERAFKDEYMNLVRAPEVPVISG AFC  
YDVVLDSKLDEWMP TKENLRSFTKDAHALIYKDLPFETLEVEAKVALEIFQH SKYKVDFI  
EEKASQNPERIVKLHRIGDFIDVSEGPLIPRTSICFQYEVS AVHNLQPTQPSLIRRFQGV  
SLPVHLRAHFTIWDKLLERSRKMVTEDQSKATEECTST

>sp|PODH78|RN224\_HUMAN RING finger protein 224 OS=Homo sapiens GN=RNF224 PE=3 SV=1

MQDAAAGGPPGLGGGPP EERTDCIICCSAYDL SGHLPRLYCGHTFCQACVRRLDTPAP  
EQRWIPCPQCRQSTPTPRGGVAMLDLDLA AFLAVKAEREPARLEPLPLTSLKGS AITRQP  
AGLCPALGPQPHFPQPRYCCWCGGSLCCPPLGSPEV

>sp|043567|RNF13\_HUMAN E3 ubiquitin-protein ligase RNF13 OS=Homo sapiens GN=RNF13 PE=1 SV=1

MLLSIGMLMLSATQVYTILTVQLFAFLNLLPVEADILAYNFENASQTFDDLPARFGYRLP  
AEGLKGFLINSKPENACEPIVPPPVKDNSSGTFIVLIRRLDCNFDIKVLNAQRAGYKAAI  
VHNVDSDDLISMGSDIEVLKKIDIPSVFIGESSANSLKDEFTYEKGGHLILVPEFSLPL  
EYYLIPFLIIVGICLILIVIFMITKQVQDRHRARRNRLRKDQLKKLPVHKFKKGDEYDVC  
AICLDEYEDGDKLRILPCSHAYHCKCVDPWLTCTKTCPCVKQKVVPSQGDSDSDTSSQ  
EENEVTEHTPLLRLASVSAQSFGALSESRS HQNMTESSDYEDDNDTDSSDAENEINE  
HDVVVQLQPNGERDYNIA NTV

>sp|Q9BXT8|RNF17\_HUMAN RING finger protein 17 OS=Homo sapiens GN=RNF17 PE=1 SV=3

MAAEASKTGPSRSSYQRMGRKSQPWGA AEIQCTRCRRVSRSSGHHCELQCGHAFCELCL  
LMTEECTTIICPDCEVATAVNTRQRYYPMAGYIKEDSIMEKLQPKTIKNCSQDFKKTADQ  
LTTGLERSASTDKTLLNSSAVMLDNTAE EIDEALNTAHHSFEQLSIAGKALEHMQKQTI  
EERERVIEVVEKQFDQLLAFFDSRKKNLCEEFA RTTDDYLSNLIKAKSYIEEKKNNLNAA  
MNIARALQLSPSLR TYCDLNQIIRTLQLTSDSELAQVSSPQLRNPPRLSVCSEIICMFN  
NMGKIEFRDSTKCYPQENEIRQNVQKKYNNKKELSCYDTYPPLEKKKVDM SVLTSEAPPP  
PLQPETNDVHLEAKNFQPKD VATASPKTIAVLPQMGSSPDVIEEIIEDNVESSAELVF  
VSHVIDPCHF YIRKYSQIKDAKVL EKKVNEFCNRSSHLDPSDILELGARIFVSSIKNGMW  
CRGTITELIPIEGRNTRKPCSPTRLFVHEVALIQIFMVDFGNSEVLIVTG VVDTHVRPEH  
SAKQHIALNDLCLVLRKSEPYTEGLLKDIQPLAQPCSLKDIVPQNSNEGWE EEAKEVEFLK  
MVNNKAVSMKVFREEDGVLIVDLQKPPPNKISSDMPVSLRDALVFMELAKFKSQSLRSHF  
EKNTTLHYHPPILPKEMTDVSVTVCHINSPGDFYQLIEGLDILFLLKTIEEFYKSE DGE  
NLEILCPVQDQACVAKFEDGIWYRAKVIGLPGHQEVEVKYVDFGNTAKITIKDVRKIKDE  
FLNAPEKA IKCKLAYIEPYKRTMQWSKEAKEFE EKAQDKFMTCSVIKILEDNVLLVELF  
DSLGAPEMTTTSINDQLVKEGLASYEIGYILKDNSQKHIEVWDPSPEEIIISNEVHNLNPV  
SAKSLPNENFQSLYNKELPVHICNVI SPEKIYVQWLLTENLLNSLEEKMI AAYENSKWEP  
VKWENDMHCAVKIQDKNQWRRGQIIRMVTD TLVEVLLYDVGVELVVNV DCLRKLEENLKT  
MGRLSLECSLVDIRPAGGSDKW TATACDCLSLYLTGAVATII LQVDSEENNTTWPLPVKI  
FCRDEKGERVDVSKYLIKKGALRERRINNLDNSHSLSEKSLEVPLEQEDSVVTNCIKTN  
FDPDKKTADIISEQKVSEFQE KILEPRTTRGYKPPAIPNMNVFEATVSCV GDDGTIFVVP  
KLSEFELIKMTNEIQSNLKCLGLLEPYFWKKGEACAVRGSDTLWYRGK VMEVVGAVRVQ  
YLDHGFT EKIPQCHLYPILLYPDIPQFCIPCQLHNTTPVGNVWPDAIEVLQQLLSKRQV  
DIHIMELPKNPWEKLSIHL YFDGMSLSYFMAYYKYCTSEHTEEMLKEKPRSDHDKKYEEE  
QWEIRFEELLSAETDTPLLPPYLS SSSLPSPGELYAVQVKHV VSPNEVYICLDSIETSNQS  
NQHSDDTDSGVSGESESESLDEALQRVNKKVEALPPLTDFRTEMPCLA EYDDGLWYRAKI  
VAIKEFNPLSILVQFVDYGSTAKLTLNRLCQIPSHLMRYPARAIKVLLAGFKPPLRDLGE  
TRIPYCPKWSMEALWAMIDCLQGKQLYAVSMA PAPEQIVTLYDDEQHPVHMPLVEMGLAD  
KDE

>sp|076064|RNF8\_HUMAN E3 ubiquitin-protein ligase RNF8 OS=Homo sapiens GN=RNF8 PE=1 SV=1

MGEPGFFVTGDRAGGRSWCLRRVGMSAGWLLLEDGCEVTVGRGFGV TYQLVSKICPLMIS  
RNHCVLKQNP EGQWTIMDNKSLNGVWLNRRARLEPLRVYSIHQGDYIQLGVPLENKENAEY  
EYEVTEEDWETIYPC LSPKNDQMIEKNKELRTKRFSLDELAGPGAEGPSNLKSKINKVS  
CESGQPVKSQKG EVASTPSDNLDPKLTAL EPSKTTGAPIYPGFPKVTEVHHEQKASNSS  
ASQRSLQMFKVTMSRILRLKIQM QEKHEAVMNVKKQTQKGN SKKVQMEQELQDLQS QLC

AEQAQQQARVEQLEKTFQEEEQHLQGLEIAQGEKDLKQQLAQALQEHWALMEELNRSKKD  
FEAIIQAKNKELEQTKEEKEKMQAQKEEVLSHMNDVLENELQCIICSEYFIEAVTLNCAH  
SFCSYCINEMMKRIECPICRKDIKSKTYSVLVDNCINKMVNLSSEVKERRIVLIRERK  
AKRLF

>sp|Q01973|ROR1\_HUMAN Inactive tyrosine-protein kinase transmembrane receptor ROR1  
OS=Homo sapiens GN=ROR1 PE=1 SV=2

MHRPRRRGTRPPLLALLAALLAARGAAQETELSVSAELVPTSSWNISSELNKDSYLT  
DEPMNITTSLGQTAELHCKVSGNPPPTIRWFKNDAPVVQEPRLSFRSTIYGSRLRIRN  
LDTTDTGYFQCVATNGKEVVSSTGVLFVKFGPPPTASPGYSDEYEEDGFCQPYRGIACAR  
FIGNRTVYMESLHMQGEIENQITAAFTMIGTSSHLSDKCSQFAIPSLCHYAFPYCDETSS  
VPKPRDLCRDECEILENVLCQTEYIFARSNPMILMRLKLPNCEDLPQPESPEAANCIRIG  
IPMADPINKNHKCYNSTGVDYRGTVSVTKSGRQCQPWNSQYPHTHTFTALRFPELNGGHS  
YCRNPGNQKEAPWCFTLDENFKSDLCDIPACDSKDSKEKNKMEILYILVPSVAIPLAIAL  
LFFFIQVCRNNQKSSAPVQRQPKHVRGQNVEMSMLNAYKPKSKAKELPLSAVRFMEELG  
ECAFGKIYKGHLYPGMDHAQLVAIKTLKDYNPQQWTEFQQEASLMAELHHPNIVCLLG  
AVTQEQQPVCMLFEYINQGDLEHFLIMRSPHSDVGCSSDEDGTVKSSLDHGDFLHIAIQIA  
AGMEYLSSSHFFVHKDLAARNILIGEQLHVKISDLGLSREIYSADYYRVQSKSLLPIRWMP  
PEAIMYGKFSSDSDIWSFGVVLWEIFSGLQPYYGFSNQEVIMVRKRQLLPCSEDCPPR  
MYSLMTECWNEIPSRRPRFKDIHVRLRSWEGLSSHTSSTPSGGNATTQTTSLSASPVSN  
LSNPRYPNYMFPSQGITPQQGIAGFIGPPIPNQRFIPINGYP IPPGYAAFPAAHYQPTG  
PPRVIQHCPPPKSRSPSSASGSTSTGHVTSLPSSGSNQEANIPLLPHMSIPNHPGGMGIT  
VFGNKSQKPYKIDSKQASLLGDANIHGHTESMISAE

>sp|A6NIZ1|RP1BL\_HUMAN Ras-related protein Rap-1b-like protein OS=Homo sapiens PE=2 SV=1  
MREYKLVVLGSRGVGKSALTVQFVQGIFVEKYDPTIEDSYREQVEVDAQQCMLILD  
TAGTEQFTAMRDLYMKNQGQFALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDL  
EDERVVGKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSS  
CQLL

>sp|P53803|RPAB4\_HUMAN DNA-directed RNA polymerases I, II, and III subunit RPABC4 OS=Homo sapiens GN=POLR2K PE=1 SV=1

MDTQKDVQPPKQPMIYICGECHTENEIKSRDPIRCRECGYRIMYKKRTKRLVVFAR

>sp|Q8IXW5|RPAP2\_HUMAN Putative RNA polymerase II subunit B1 CTD phosphatase RPAP2 OS=Homo sapiens GN=RPAP2 PE=1 SV=1

MADFAGPSSAGRKAGAPRCSRKAAGTKQTSTLQEDASKRKAEEA AVRKKIEFERKALH  
IVEQLLEENITEEFLMECGRFITPAHYSDVVDERSIVKLCGYPLCQKKLGIVPKQKYKIS  
TKTNKVYDITERKSFCSNFCYQASKFFEAQIPKTPVWVREEERHPDFQLLKEEQSGHSGE  
EVQLCSKAIKTSDIDNPSHFQYESSSSSTHS DSSSDNEQDFVSSILPGNRPNSTNIRP  
QLHQKSIIMKKKAGHKANSKHKDEQTVVDVTEQLGDCKLDSQEKDATCELPQKVNTQSS  
SNSTLPERLKASENSESEYSRSEITLVGISKSAEHFKRKFASNQVSRSVSSSVQCPE  
VGKRNLKVLKETLIEWKTEETLRFLYGQNYASVCLKPEASLVKEELDEDDIISDPDSHF  
PAWRESQNSLDESLPFRGSGTAIKPLPSYENLKKETEKLNLRIREFYRGRYVLGEETKS  
QDSEEHDSFPLIDSSSQNQIRKRIVLEKLSKVLPGLLVPLQITLGDITYQLKNLVRTFR  
LTNRNIHKAEWTLIAMVLLSLLTPILGIQKHSQEGMVFTFLDTLLEELHLKNEDLES  
LTIIIFRTSCLPE

>sp|P52435|RPB11\_HUMAN DNA-directed RNA polymerase II subunit RPB11-a OS=Homo sapiens  
GN=POLR2J PE=1 SV=1

MNAPPAFESFLLFEGEKKITINKDTKVPNACLFTINKEDHTLGNIKSQLLKDPQVLFAG  
YKVPHPLEHKIIIRVQTTDPDYSPQEAFTNAITDLISELSLEERFRVAIKDKQEGIE

>sp|O75575|RPC9\_HUMAN DNA-directed RNA polymerase III subunit RPC9 OS=Homo sapiens GN=CRCP  
PE=1 SV=1

MEVKDANSALLSNYEVFQLLTDLKEQRKESGKNKHSSGQQLNTITYETLKYISKTPCRH  
QSPEIVREFLTALKSHKLTAKELQLLNHRPVTAVEIQLMVEESEERLTEEQIEALLHTV  
TSILPAEPEAEQKKNTNSNVAMDEEDPA

>sp|Q2QD12|RPEL1\_HUMAN Ribulose-phosphate 3-epimerase-like protein 1 OS=Homo sapiens  
GN=RPEL1 PE=2 SV=1

MASGCKIGPSILNSDLANLGAKCLQMLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQ  
LGQDPFFDMHMMVSKPEQWVKPMAVAEANQYTFHLEATENPGTLIKDIRENGMKVGLAIK  
PGTSVEYLAPWANQIDMALVMTVEPGFGEQKFMEDMMPKVHWLRTQFPSLDIEGDDGGVGS  
DTVHKCAEAGANMTVSGSAIMRSEDPRSVINLLRNICSEAAQKRSDDR

>sp|Q9H7B2|RPF2\_HUMAN Ribosome production factor 2 homolog OS=Homo sapiens GN=RPF2 PE=1  
SV=2

MDTLDRVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVIYALKKPYG  
VLYKKKNITRPFEDQTSLEFFSKSDCSLFMFGSHNKKRPNLVIGRMYDYHVLDMIELG  
IENFVSLKDIKNSKCEGTPKMLIFAGDDFDVTEYRRLKSLIDFFRGPTVSNIRLAGL  
EYVLHFTALNGKIYFRSYKLLKSGCRTPRIELEEMGPSLDLVLRRTHLASDDLYKLSM  
KMPKALKPKKKKNISHDTFGTTYGRIHMQQDLQSLQTRKMKGLKKRPAERITEDHEKKS  
KRIKKN

>sp|Q13905|RPGF1\_HUMAN Rap guanine nucleotide exchange factor 1 OS=Homo sapiens GN=RAPGEF1  
PE=1 SV=3

MDTDSQRSHLSSFTMKLMDKFHSPKIKRTPSKKGKPAEVSVKIPEKPNKEATDRFLPEG  
YPLPLDLEQQAVEFMSTSAVASRSQRQKNLSWLEEKEKEVVSALRYFKTIVDKMAIDKKV  
LEMLPGSASKVLEAILPLVQNDPRIQHSSALSSCYSRVYQSLANLIRWSDQVMLEGVNSE  
DKEMVTTVKGVIAVLDDGVKELVRLTIEKQGRPSPTSPVKPSSPASKPDGPAELPLTDRE  
VEILNKTGTMSQSTELLPDATDEEVAPPKPPLPGIRVVDNSPPPAPPKRQSAPSPTRV  
AVVAPMSRATSGSSLPVGINRQDFDVDCYAQRRLSGGSHSYGGESPRLSPCSSIGKLSKS  
DEQLSSLDSDSGQCSRNTSCETLDHYDPDYEFLLQQLSNADQIPQQTAWNLSPLPESLGE  
SGSPFLGPPFQLPLGGHPQPDGPLAPGQQTDTTPALPEKKRRAASQTADGSGCRVSYER  
HPSQYDNISGEDLQSTAPIPSVPYAPFAAILPFQHGSSAPVEFVGDFTAPESTGDPEKP  
PPLPEKKNKMLAYMQLLEDYSEPQPSMFYQTPQNEHIYQQKNKLLMEVYGFSDSFSGVD  
SVQELAPPPALPPKQRQLEPPAGKDGHPDPSPAVSGVPGKDSRDGSEAPKSPDALESAQ  
SEEEVDELSLIDHNEIMSRLTLKQEGDDGPDVRGGSGDILLVHATETDRKDLVLYCEAFL  
TTYRTFISPEELIKKLQYRYEKFSPFADTFKKRVSKNTFFVLVRVDELCLVELTEEILK  
LLMELVFRVLCNGELSLARVLRKNILDKVDQKKLLRCATSSQPLAARGVAARPGTLHDFH  
SHEIAEQLTLLDAELFYKIEIPEVLLWAKEQNEEKSPNLQTFTEHFNMSYVWRSIIMLQ  
EKAQDRERLLKFIKIMKHLRKLNNFNLSYLAILSALDSAPIRRLEWQKQTSEGLAEYCTL  
IDSSSSFRAYRAALSEVEPPCIPYLGLILQDLTFVHLGNPDYIDGKVNFSKRWQQFNILD  
SMRCFQQAHYDMRRNDIINFNDFSDHLAEEALWELSLKIKPRNITRRKTDREKT



>sp|Q92565|RPGF5\_HUMAN Rap guanine nucleotide exchange factor 5 OS=Homo sapiens GN=RAPGEF5  
PE=1 SV=1

MGSSRLRVFDPHLERKDSAAALSDRELPLPTFDVPYFKYIDEEDEDEWSSRSQSSTEDD  
SVDSLSDRYVVVSGTPEKILEHLLNDLHLEEVQDKETETLLDDFLLTYTFMTTDDLQ  
ALLRHYSAKKYQGKEENS DVPRKRKVLHLVSQWIALYKDWLPEDEHSMFLKTIYRNVL  
DDVYEYPILEKELKEFQKILGMHRRHTVDEYSPQKKNKALFHQFSLKENWLQHRGTVTET  
EEIFCHVYITEHSYVSVKAKVSSIAQEILKVVAEKIQYAEEDLALVAITFSGEKHELQPN  
DLVISKSLASGRIYVYRKDLADTLNPFANEESQQRSMRILGMNTWDLALELMNFDWSL  
FNSIHEQELIYFTFSRQGSGEHTANLSLLQRCNEVQLWVATEILLCSQLGKRVQLVKKF  
IKIAAHCKAQRNLSFFAIVMGLNTASVSRLSQTWEKIPGKFKLFSELES LTDPSLNHK  
AYRDAFKMKPKIPFMPLLLKDVTFIHEGNKTFLDNLVNFELHMIADTVRTL RH CRTN  
QFGDLSPEKHQELKSYVNHLVYIDSQQALFELSHRIEPRV

>sp|P04844|RPN2\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase  
subunit 2 OS=Homo sapiens GN=RPN2 PE=1 SV=3

MAPPGSSTVFLLALTIIASTWALTPTHYLT KHDVERLKASLDRPFTNLESAFYISIVGLSS  
LGAQVPDAKKACTYIRSNDPSNVDSL FYAAQASQALSGCEISISNETKDLLAAVSEDS  
SVTQIYHAVAALSGFGLPLASQEALSALTARLSKEETVLATVQALQTASHLSQQADLRSI  
VEEIEDLVARLDELGGVYLQFEEGLETTALFVAATYKLMDHVGTEPSIKEDQVIQLMNAI  
FSKKNFESLSEAFSVASAAVL SHNRYHVPVVVPEGSASD THEQAILRLQVTNLSQPL  
TQATVKLEHAKSVASRATVLQKTSFTPVGDVFELNFMNVKFSSGYDFLVEVEGDNRYIA  
NTVELRVKISTEVGITNVDLSTVDKQSIAPKTTRVTYPAKAKGTFIADSHQNFALFFQL  
VDVNTGAELTPHQTFVRLHNQKTGEVVFVAEPDNKNVYKFELDTSERKIEFDSASGTYT  
LYLIIGDATLKNPILWNVADVVIKFPEEEAPSTVLSQNLFTPQKEIQHLFREPEKRPPTV  
VSNTFTALILSPLLLFALWIRIGANVSNFTFAPSTII FHLGHAAMLGLMYVYWTQLNMF  
QTLKYLA ILGSVTF LAGNRMLAQQAVKRTAH

>sp|O00411|RPOM\_HUMAN DNA-directed RNA polymerase, mitochondrial OS=Homo sapiens  
GN=POLRMT PE=1 SV=2

MSALCWGRGAAGLKRALRPCGRPLPGKEGTAGGVC GPRRSSASPQEQDQDRRKDWGHV  
ELLEVLQARVRQLQAESVSEVVNRVDVARLPECGSGDGS LQPPRKVQMGAKDATPVPCG  
RWAKILEKDKRTQQMRMQR LKAKLQMPFQSGEFKALTRRLQVEPRLLSKQMAGCLEDCTR  
QAPESPWEEQLARLLQEAPGKLSLDVEQAPSGQHSQAQLSGQQRLLAFFKCCLLTDQLP  
LAHLLLVVHHGQRQKRKLLTLDMYNAVMLGWARQGAFKELVYVLFMVKDAGLTPDLLSYA  
AALQCMGRQDQDAGTIERCLEQMSQEGLKLQALFTAVLLSEEDRATVLKAVHKVKPTFSL  
PPQLPPPNTSKLLRDVYAKDGRVSYPKLHLPLKTLQCLFEKQLHME LASRVCVVSVEKP  
TLPSKEVKHARKTLKTLRDQWEKALCRALRETKNRLEREVYEGRFSLYPFLCLLDEREVV  
RMLLQVLQALPAQGESFTTLARELSARTFSRHVVQRQVSGVQALQNHYRKYLCLLASD  
AEVPEPCLPRQYWEELGAPEALREQWPPLPVQMELGKLLAEMLVQATQMPCSLDKPHRSS  
RLVPVLYHVYSFRNVQQIGILKPHPAYVQLLEKAAEPTLTFEAVDVPMLCPPLPWTSPHS  
GAFLLSPTKLMRTVEGATQHQELLETCPTALHGALDAL TQLGNCAWRVNGRVLDLVLQL  
FQAKGCPQLGVPAPPSEAPQPPEAHLPHSAAPARKAELRREL AH CQKVAREMHSLRAEAL  
YRLSLAQHLRDRVFWLPHNMDFRGRTYPCPPHFNHLS DVARALLEFAQGRPLGPHGLDW  
LKIHLVNL TGLKKREPLRKRLAFAEEVMDDILDSADQPLTGRKWWMGAEEPWQTLACCME  
VANAVRASDPAAYVSHLPVHQDGCNGLQHYYAALGRDSVGAASVNLEPSDVPQDVYSGVA  
AQVEVFRRQDAQRGMRAQVLEGFITRKVVKQTVMTVVYGVTRYGGRLQIEKRLRELSDF

PQEFVWEASHYLVRQVFKSLQEMFSGTRAIQHWLTESARLISHMGSVVEWVTPLGVPVIQ  
PYRLDSKVKQIGGGIQSITYTHNGDISRKPNTKQKNGFPPNFIHSLDSSHMLTALHCY  
RKGLTFVSVHDCYWTHAADVSMNQVCREQFVRLHSEPIQLQLSRFLVKRFCSEPQKILE  
ASQLKETLQAVPKPGAFDLEQVKRSTYFFS

>sp|O95707|RPP29\_HUMAN Ribonuclease P protein subunit p29 OS=Homo sapiens GN=POP4 PE=1  
SV=2

MKSVIYHALSQKEANDSDVQPSGAQRAEAFVRAFLKRSTPRMSPQAREDQLQRKAVVLEY  
FTRHKRKEKKKAKGLSARQRRELRLFDIKPEQQRYSLFLPLHELWKQYIRDLCGLKPD  
TQPQMIQAKLLKADLHGAIISVTSKSKCPSYVGITGILLQETKHIFKIIITKEDRLKVIPKL  
NCVFTVETDGFISYIYGSKFQLRSSERSAKKFKAKGTIDL

>sp|P78345|RPP38\_HUMAN Ribonuclease P protein subunit p38 OS=Homo sapiens GN=RPP38 PE=1  
SV=2

MAAAPQAPGRGSLRKTRPLVVKTSLNPNYIIRWSALESEDMHFILQTLEDRLKAIGLQKI  
EDKKKKNKTPFLKESREKCSIAVDISENLKEKKTDAKQVSGWTPAHVRKQLAIGVNEV  
TRALERRELLLVCKSVKPAMITSHLIQLSLRSVPACQVPRLSERIAPVIGLKCVLAL  
AFKKNTTDFVDEVRAIIPRVPSLSVPWLQDRIEDSGENLETEPLESQDRELLDTSFEDLS  
KPKRKLADGRQASVTLQPLKIKKLIPNPNKIRKPPKSKKATPK

>sp|P25398|RS12\_HUMAN 40S ribosomal protein S12 OS=Homo sapiens GN=RPS12 PE=1 SV=3  
MAEEGIAAGGVMDVNTALQEVLTAL IHDGLARGIREAAKALDKRQAHL CVLASNCDEPM  
YVKLVEALCAEHQINLIKVDNKKLGEWVGLCKIDREGKPRKVVGCSVVVKDYGESQA  
KDVIEEYFKCKK

>sp|Q13084|RM28\_HUMAN 39S ribosomal protein L28, mitochondrial OS=Homo sapiens GN=MRPL28  
PE=1 SV=4

MPLHKYPVWLWKRLQLREGICSRLPGHYLRSLLEEERTPTPVHYRPHGAKFKINPKNGQRE  
RVEDVPIPIYFPPEQRGLWGEGWILGQIYANNDKLSKRLKKVWKPQLFEREFYSEILD  
KKFTVTVTMRITDLIDEAYGLDFYILKTPKEDLCSKFGMDLKRGMILLRLARQDPQLHPED  
PERRAAIYDKYKEFAIPEEEAEWVGLTLEEAI EKQRLLEEKDPVPLFKIYVAELIQQLQQ  
QALSEPAVVQKRASGQ

>sp|Q8IXM3|RM41\_HUMAN 39S ribosomal protein L41, mitochondrial OS=Homo sapiens GN=MRPL41  
PE=1 SV=1

MGVLA AAAARCLVRGADRMSKWT SKRGPRSFGRKGRGAKGIGFLTSGWRFVQIKEMVPEF  
VVPDLTGFKLPYVSYLAPESSEETPLTAAQLFSEAVAPAIEKDFKDGTFDPDNLEKYGFE  
PTQEGKLFQLYPRNFLR

>sp|Q9NWS8|RMND1\_HUMAN Required for meiotic nuclear division protein 1 homolog OS=Homo  
sapiens GN=RMND1 PE=1 SV=2

MPATLLRAVARSHHILSKAHQCRRIGHMLKPLKEFENTTCSTLTIRQSLDLFLPDKTAS  
GLNKSQILEMNQKSDTSMLSPLNAARCQDEKAHLPTMKSFGTHRRVTHKPNLLGSKWFI  
KILKRHFSSVSTETFPKQDFPQVKRPLKASRTRQPSRTNLPVLSVNEDLMHCTAFATAD  
EYHLGNLSQDLASHGYVEVTS LPRDAANILVMGVENSAKEGDPGTIFFFREGAAVFWNVK  
DKTMKHVMKVLEKHEIQPYEIALVHWENEELNYIKIEGQSKLHRGEIKLNSELDLDDAIL  
EKFAFSNALCLSVKLAIWEASLDKFIESIQSIPEALKAGKKVKLSHEEVMQKIGELFALR  
HRINLSSDFLITPDFYWDRENLEGLYDKTCQFLSIGRRVKVMNEKLQHCMELTDLMRNHL  
NEKRALRLEWMIVILITIEVMFELGRVFF

>sp|Q9Y508|RN114\_HUMAN E3 ubiquitin-protein ligase RNF114 OS=Homo sapiens GN=RNF114 PE=1 SV=1

MAAQQRDCGGAAQLAGPAAEADPLGRFTCPVCLEVYEKPVQVPCGHVFCACLQECLKPK  
KPVCGVCRSALAPGVRAVELERQIESTETSCHGCRKNFFLSKIRSHVATCSKYQNYIMEG  
VKATIKDASLQPRNVPNRYTFPCPYCPEKNFDQEGLVEHCKLFHSTDTSVVCPICASMP  
WGDPNYRSANFREHIQRRHRFSYDTFVDYDVDEEDMMNQVLQRSIIDQ

>sp|Q9Y4L5|RN115\_HUMAN E3 ubiquitin-protein ligase RNF115 OS=Homo sapiens GN=RNF115 PE=1 SV=2

MAEASAAGADSGAAVAHRFFCHFCKGEVSPKLPEYICPRCESGFIEEVTDDSSFLGGGG  
SRIDNTTTTHFAELWGLDHTMFFQDFRPFLSSSPLDQDNANERGHQTHTDFWGARP  
LPLGRRYRSRGSSRPDRSPAIEGILQHIFAGFFANSAIPGSPHPFSWSGMLHSNPGDYAW  
GQTGLDAIVTQLLGQLENTGPPPADKEKITSLPTVTVTQEQQVDMGLECPVCKEDYV  
VRQLPCNHFFHSSCIVPWLELHDTCPVCRKSLNGEDSTRQSQSTEASASNRFSNDSQLHD  
RWTf

>sp|Q9ULK6|RN150\_HUMAN RING finger protein 150 OS=Homo sapiens GN=RNF150 PE=2 SV=2

MAMSLIQACCSLALSTWLLSFCFVHLLCLDFTVAEKEEWYTAfVNITYAEPAPDPGAGAA  
GGGAELHTEKTECGRYGEHSPKQDARGEVVMASAHDLACDPNTKFAAPTRGKNWIAL  
IPKGNCYRDKIRNAFLQNASAVVIFNVGSNTNETITMPHAGVEDIVAIMIPEPKGKEIV  
SLLERNITVTMYITIGTRNLQKYVSRTSVVFSISFIVLMIISLAWLVFYIQRFRYANA  
RDRNQRLGDAAKKAISKLQIRTIKKGDKETESDFDNCAVCIEGYKPNdVVRILPCRHLF  
HKSCVDPWLLDHRTCPMCKMNILKALGIPPnADCMDDLPTDFEGSLGGPPTNqITGASDT  
TVNESSVTLDPAVRTVGALQVVQDTDPIpQEGDVIFTTnSEQEPAVSSDSDisLIMAMEV  
GLSDVELSTDQDCEEVKS

>sp|Q8N8N0|RN152\_HUMAN E3 ubiquitin-protein ligase RNF152 OS=Homo sapiens GN=RNF152 PE=1 SV=1

METLSQDSLLECQICFNYSprRRPKLLDCKHTCCSVCLQQMRTSQKDVRCPWCRGVTKL  
PPGFSVSQLPDDPEVLAVIAIPHTSEHTPVFIKLPsNGCYMLPLISKERALLPGDMGCR  
LLPGSQQKSVTVVTIPAEQQPLQGGAPQEAVEEEQDRRGVVKSSTWsgVCTVILVACVLV  
FLLGIVLHNMSCISKrFTVISCg

>sp|Q96PX1|RN157\_HUMAN RING finger protein 157 OS=Homo sapiens GN=RNF157 PE=1 SV=3

MGALTSRQHAGVEEVDIPSNSVRYPPKSGSYFASHFIMGGEKFDSTHPEGylFGENSdL  
NFLGNRPVVPYAAPPPQEPVKTLRSLVNIRKDTLRLVKAEVVKSPGEEASKAKVHYNV  
EFTFDTDARVAITIIYYQATEEFQNGIASYIPKDNSLQSETVQYKRGVCQQFCLPSHTVDP  
SEWAEELGFDLDREVYPLVHVAVVDEGDEYFGHCHVLLGTfEKHTDGTFCVKPLKQKQV  
VDGVSyllQEiYGIEKNYNTQDSKVAEDEVSDNSAEcVVCLSDVRDTLILPCRHLCLCNT  
CADTLRYQANNCPICRLPFRALLQIRAMRKKLGPLSPTSfNPiISSQTSDEEHPSSENI  
PPGYEVVSLLEALNGPLTPSAVPPLHLVLDGHLsGMLPSYSGDGHLPpVRTISPLDRLS  
DSSSQGLKlKKSLSKSTSQNSSVLHEEEDeHSCSESETQLSQRPSVQHLGEECGVTPeSE  
NLTLSSSGAIDQSSCTGTPLSSTISSPEGPASSSLAQSVMSMASSQISTDTVSSMSGSYI  
APGTEEEGEALSSPQPASRAPSEEGLPAESPDSNFAGLPAGEQDAEGNDVIEEDGSP  
TQEGQRtCAFLGMECDNNDFDIASVKALDNKLCSEVCLPGAWQADDNAVSRNAQRRRLS  
SSSLEDSETRPCVWGPLAV

>sp|Q96D59|RN183\_HUMAN RING finger protein 183 OS=Homo sapiens GN=RNF183 PE=1 SV=2

MAEQQGReLEAECPVCWNpFNNTfHTPKMLDCCHSFCVECLAHLsLVTpARRRLLCPLCR

QPTVLASGQPVTDLPTDTAMLALLRLEPHHVILEGHQLCLKDQPKSRYFLRQPQVYTLDL  
GPQPGGQTGPPPDATASATVSTPILIPSHSLRECFRNPQFRIFAYLMAVILSVTLLLLIFS  
IFWTKQFLWGVG

>sp|Q6ZMZ0|RN19B\_HUMAN E3 ubiquitin-protein ligase RNF19B OS=Homo sapiens GN=RNF19B PE=1  
SV=2

MGSEKDSESPRSTSLHAAAPDPKCRSGGRRRRLTLHSVFSASARGRRARAKPQAEPPPPA  
AQPPPAPAPAAAQGPPEALPAEPAAEAEAEAAAAAEPGFDDEAAEGGGPGAEEVECP  
LCLVRLPPERAPRLSCPHRSCRDCRLHYLRLEISESRVPISCECSERLNPHDIRLLLA  
DPPLMHKYEEMLRRLASDPDCRWCPAPDCGYAVIAYGCASCPKLTCEREGCQTEFCYH  
CKQIWHPNQTCDMARQQRAQTLRVRTKHTSGLSYGQESGPADDIKPCPRCSAYIIKMNDG  
SCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKKILWQLGTLIGAPVG  
ISLIAGIAIPAMVIGIPVYVGRKIHRSRYEGRKTSKHKRNLAITGGVTLSVIA SPVIAAVS  
VGIGVPIMLAYVYGVPISLCRGGGCGVSTANGKGVKIEFDEDDGPITVADAWRALKNPS  
IGESSIEGLTSVLSTSGSPTDGLSVMQGPYSETASFAALSGGTLSGGILSSGKGKYSRLE  
VQADVQKEIFPKDTASLGAISDNASTRAMAGSISSYNPQDRECNMEIQVDIEAKPSHY  
QLVSGSSTEDSLHVHAQMAENEEEGSGGGGSEEDPPCRHQSCQKDCCLASKPWDISLAQP  
ESIRSDLESSDAQSDDVPDITSDECGSPRSHTAAC PSTPRAQGAPSPSAHMNLSALAEGQ  
TVLKPEGGEARV

>sp|Q9H0X6|RN208\_HUMAN RING finger protein 208 OS=Homo sapiens GN=RNF208 PE=1 SV=2

MPSDPGPEAGSGWPGLLMSCLKGPHVILKMEAMKIVHPEKFPPELPAAPCFPPAPRPTPL  
APKRAWPSDTEIIVNQACGDMPALEGAPHTPPLPRRPRKGSSELGFPRVAPEDIVNQ  
YVIRPGPSASAASSAAAGEPLECPTCGHSYNVTQRRPRVLSCLHSVCEQCLQILYESCPK  
YKFISCPTRRETVLFTDYGLAALAVNTSILSRLPPEALTAPSGGQWGAEPGSCYQTFR  
QYCGAACTCHVRNPLSACSIM

>sp|Q5VTB9|RN220\_HUMAN E3 ubiquitin-protein ligase RNF220 OS=Homo sapiens GN=RNF220 PE=1  
SV=1

MDLHRAAFKMENSSYLPNPLASPALMVLASTAEASRDASIPCQQPRPFGVPVSVDKDVHI  
PFTNGSYTFASMYHRQGQVPGTFANRDFPPSLLHLHPQFAPPNLDCTPISMLNHSGVGAF  
RPFATEDRESYQSAFTPAKRLKNCHDTESPHLRFSADGKEYDFGTQLPSSSPGSLKVD  
DTGKKIFAVSGLISDREASSSPEDRNDRCCKKAAALFDSQAPICPICQVLLRPSELQEHM  
EQELEQLAQLPSSKNSLLKDAMAPGTPKSLLSASIKREGESPTASPHSSATDDLHHSR  
YQTFRLVRANRQTRLNARIGMKRRKQDEGQREGSCMAEDDAVDIEHENNNRFEYEWCG  
QKRIRATTLLEGGFRGSGFIMCSGKENPDSADLDVDGDDTLEYGKPQYTEADVIPCTGE  
EPGEAKEREALRGAVLNGGPPSTRITPEFSKWASDEMPSTSN GESSKQ EAMQKTKNSDI  
EKITEDSAVTTFEALKARVRELERQLSRGDRYKCLICMDSYSMPLTSIQCWHVHCEE CWL  
RTLGAKKLCPQCNTITAPGDLRRIYL

>sp|Q8TDE3|RNAS8\_HUMAN Ribonuclease 8 OS=Homo sapiens GN=RNASE8 PE=1 SV=1

MAPARAGCCPLLLLLLGLWVAEVLVRAKPKDMTSSQWFKTQHVQPSPQACNSAMSIINKY  
TERCKDLNTFLHEPFSSVAITCQTPNIACKNSCKNCHQSHGPMSLTMGELTSGKYPNCRY  
KEKHLNTPYIVACDPPQQGDPGYPLVPVHLDKVV

>sp|P60153|RNAS9\_HUMAN Inactive ribonuclease-like protein 9 OS=Homo sapiens GN=RNASE9  
PE=1 SV=1

MMRTLITHTPLPLLLLPQQLQLVQFQEVDTD FDFPEEDKKEEFEECLEKFFSTGPARPP  
TKEKVKRRVLI EPGMPLNHIEYCNHEIMGKNVYKHRWVAEHYFLLMQYDELQKICYNRF

VPCKNGIRKCNRSKGLVEGVYCNLTEAFEIPACKYESLYRKGYYLITCSWQNEMQKRIPH  
TINDLVEPPEHRSFLESDEGVFVISP

>sp|P52198|RND2\_HUMAN Rho-related GTP-binding protein RhoN OS=Homo sapiens GN=RND2 PE=1  
SV=2

MEGQSGRCKIVVVGDAECGKTALLQVFAKDAYPGSYVPTVFENYASFEIDKRRIELNMW  
DTSGSSYYDNVRPLAYPDSDAVLICFDISRPETLDSVLKKWQGETQEFCPNAKVVLVGCK  
LDMRTDLATLRELSKQRLIPVTHEQGTVLAKQVGAVSYVECSSRSSERSVRDVFHVATVA  
SLGRGHRQLRRTDSRRGMQRSAQLSGRPDRGNEGEIHKDRAKSCNLM

>sp|P61587|RND3\_HUMAN Rho-related GTP-binding protein RhoE OS=Homo sapiens GN=RND3 PE=1  
SV=1

MKERRASQKLSSKSIMDPNQNVKCKIVVVGDSQCGKTALLHVFAKDCFPENYVPTVFENY  
TASFEIDTQRIELSLWDTSGSPYYDNVRPLSYPDSDAVLICFDISRPETLDSVLKKWKGE  
IQEFCPNTKMLLVGCKSDLRTDVSTLVELSNHRQTPVSYDQGANMAKQIGAATYIECSAL  
QSENSVRDIFHVATLACVNKTNKNVKNKSQRATKRISHMPSRPELSAVATDLRKDKAKS  
CTVM

>sp|Q8N5U6|RNF10\_HUMAN RING finger protein 10 OS=Homo sapiens GN=RNF10 PE=1 SV=2

MPLSSPNAAATASDMKNSGNSSSASSGSSKGQPPRSASAGPAGESKPKSDGKNSSGS  
KRYNRKRELSYPKNESFNNQSRSSSSQKSKTFNKMPQRRGGGSSKLFSSSFNGRRDEVA  
EAQRAEFSPAQFSGPKKINLHLLNFTFEPRGQTGHFEGSGHGSWGKRKNWGHKPFNKEL  
FLQANCQFVVSSEDQDYTAHFADPDTLVNWDVFEQVRICSHEVPSCPICLYPPTAAKITRC  
GHIFCWACILHYLSSEKTSKCPICYSSVHKKDLKSVVATESHQYVVGDTITMQLMKRE  
KGVVALPKSKWMNVDPHPIHLGDEQHSQYSKLLLASKEQVLHRVVLEEKVALEQQLAEEK  
HTPESCFIEAAIQELKTREEALSGLAGSRREVTGVVAALEQLVLMAPLAKESVFQPRKGV  
LEYLSAFDEETTEVCSLDTPSRPLALPLVEEEEAVSEPEPEGLPEACDDLELADDNLKEG  
TICTESSQQEPITKSGFTRLSSSPCYFYQAEDGQHMFLHPVNVRLVREYGSLEERSPEK  
ISATVVEIAGYSMEDVRQRHRYLSHLPLTCEFSICELALQPPVVSKEITLMEFSDIEKR  
KRQRQKKAREERRRRERRIEIEENKKQGYPEVHIPLNLQQFPAFNSYTCSSDSALGPTS  
TEGHGALSISPLSRSPGSHADFLLTPLSPTASQGSPSFCVGSLEEDSPFPSFAQMLRVGK  
AKADVWPKTAPKKNENSLVPPAPVDSGSDNSDRVPVPSFQNSFSQAIEAAFMKLDTPA  
TSDPLSEEKGGKKRKKQKQKLLFSTSVVHTK

>sp|Q96BH1|RNF25\_HUMAN E3 ubiquitin-protein ligase RNF25 OS=Homo sapiens GN=RNF25 PE=1  
SV=1

MAASASAAAGEEDWVLPSEVEVLESIYLDLQVIKNGRTSPWEIYITLHPATAEDQDSQ  
YVCFTLVLVQVPAEYPHEVPQISIRNPRGLSDEQIHTILQVLGHVAKAGLGTAMLYELIEK  
GKEILTDNNIPHGQCVICLYGFQEKEAFTKTPCYHYFHCHCLARYIQHMEQELKAQGGEQ  
EQERQHATTKQKAVGVQCPVCREPLVYDLASLKAPEPQQPMELYQPSAESLRQQEERKR  
LYQRQQERGGIIDLEAERNRYFISLQPPAPAEPESAVDVSKGSQPPSTLAAELSTSPAV  
QSTLPPPLPVATQHICEKIPGTRSNQRLGETQKAMLDPPKPSRGPWRQPERRHPKGGEK  
HAPKGRTRDTQELPPEGLKEPMDLKPEPHSQGVGPPQEKGPSWQGPPIRRTRDCVRW  
ERSKGRTPGSSYPRLPRGQAYRPGTRRESLGLESKDG

>sp|O94941|RNF37\_HUMAN RING finger protein 37 OS=Homo sapiens GN=UBOX5 PE=1 SV=1

MVINLCLPQFRPRIHCNKISADGYEVENLISEDLTKRSHGFRTEYFIKPPVYVTVSFPFN  
VEICRINIDLTAGGGQNVGTGLMYTSASSSRVSWNTPQCRTLGAEPSVPDKEAFTLVGK  
VLLKNQSQVVFSHRGFKARPPFGAMEATLPSPAVVAQELWNKGALSLSHVAHLRICITHV

TGGGIPCIKRLEWVGQPAKTCSQEVIDSILLVTSENLPQDVALQAPALPMESDCDPGDQP  
ESQQAPSSLQKLAETIQDVPEEFLLDPITLEIMPCPMLLPSTGKVIDQSTLEKCNRSEATWG  
RVSPDPFTGVAFTPHSQPLPHPSLKRIDHFLQHSIPGCHLLGRAQTALAVIPSSIVLP  
SQKRKIEQAEHVPSNFGVNASCFSATSPVLPTTSEHTAKMKATNEPSLTHMDCSTGP  
LSHEQKLSQSLEIALASTLGSMPSFTARLTRGQLQHLGTRGSNTSWRPGTGSEQPGSILG  
PECASCKRVFSPYFKKEPVYQLPCGHLLCRPCLGEKQRSPLMTCTACQRPVASQDVLRVH  
F

>sp|Q7L0R7|RNF44\_HUMAN RING finger protein 44 OS=Homo sapiens GN=RNF44 PE=2 SV=1  
MRPWALAVTRWPPSAPVQRRFSAGPGSTPGQLWGSPGLEGLASPPARDERLPSQQPPS  
RPPHLPVEERRASAPAGGSPRMLHPATQQSPFMVDLHEQVHQGPVPLSYTVTTVTQGF  
LPTGQHIPGCSAQLPACSVMFSGQHYPLCCLPPPLIQAQTMQLPVYPYQAYPHLISSDH  
YILHPPPPAPPPQPTHMAPLGQFVSLQTQHPRMPLQRLDNDVDLRGDQPSLGSFTYSTSA  
PGPALSPSVPLHYLPHDPLHQELSFGVPYSHMPRRLSTQRYRLQQPLPPPPPPPPPPY  
YPSFLPYFLSMLPMSTAMGPTISLDLDVDDVEMENYEALLNLAERLGAQPRGLTKADI  
EQLPSYRFNPDSHQSEQLTLCVCFSDFEARQLLRVLPCHFEFHTKCVDKWLVKANRTCPIC  
RADASEVPREAE

>sp|Q99942|RNF5\_HUMAN E3 ubiquitin-protein ligase RNF5 OS=Homo sapiens GN=RNF5 PE=1 SV=1  
MAAAEEEDGGPEGPNRERGAGATFECNICLETAREAVSVCGHLYCWPCLHQWLETRPE  
RQECVPCKAGISREKVVPLYGRGSQKPQDPRLKTPPRPQGQRPAPESRGGFQPFQDGTGGF  
HFSFGVGAFPFQFFTTVFNAHEPFRRGTGVDLGQGHPASSWQDSLFLFLAIFFFWLLSI

>sp|O60930|RNH1\_HUMAN Ribonuclease H1 OS=Homo sapiens GN=RNASEH1 PE=1 SV=2  
MSWLLFLAHRVALAALPCRRGSRGFGMFYAVRRGRKTGVFLTWNECRAQVDRFPAARFKK  
FATEDEAWAFVRKSASPEVSEGHENQHGESEAKASKRLREPLDGDGHESAEPYAKHMKP  
SVEPAPPVSRDTFSYMGDFVVVYTDGCCSSNGRRRPRAGIGVYWGPGLNVLNVRGIRLPGRQ  
TNQRAEIHAAACKAIEQAKTQNKLVLYTDSMFTINGITNVVQGWKKNWKTSAKEVIN  
KEDFVALERLTQGMIDIQWMHVPGHSGFIGNEADRLAREGAKQSED

>sp|Q9Y2S0|RPAC2\_HUMAN DNA-directed RNA polymerases I and III subunit RPAC2 OS=Homo sapiens GN=POLR1D PE=1 SV=1  
MEEDQELERKISGLKTSMAEGERKTALQVQAAGTDRHCVTFVLHEEDHTLGNLSRYMIM  
KNPEVEFCGYTTTHPSESKINLRIQTRGTLPVEPFQRLNELMNVQHVLDKFEASIKD  
YKQKASRNESTF

>sp|Q9H6T3|RPAP3\_HUMAN RNA polymerase II-associated protein 3 OS=Homo sapiens GN=RPAP3 PE=1 SV=2  
MTSANKAIELQLQVKQNAEELQDFMRDLNWEKDIKQKDMELRRQNGVPEENLPPIRNGN  
FRKKKKGKAKESSKKTREENTKNRIKSYDYEAWAKLDVDRILDELKDDSTHESLSQSE  
SEEDGIHVDSQKALVLKEKGNKYFKQGYDEAIDCYTKGMDADPYNPVLPTNRASAYFRL  
KKFAVAESDCNLAVALNRSYTKAYSRRGAARFALQKLEAKKDYERVLELEPNNFATNE  
LRKISQALASKENSYPKEADIVIKSTEGERKQIEAQNKQQAISEKDRGNGFFKEGKYER  
AIECYTRGIAADGANALLPANRAMAYLKIQKYEEAEKDCTQAILLDGSYSKAFARRGTAR  
TFLGKLNEAKQDFETVLLLEPGNKGAVTELSKIKKELIEKGHWDDVFLDSTQRQNVVKPI  
DNPPHPGSTKPLKKVIEETGNLIQITIDVPDSTTAAAPENNPINLANVIAATGTTSKNS  
SQDDLFPSTDPRAKVLKIEEVSSTSLQPQASLKQDVCQSYSEKMPIEIEQKPAQFATT  
VLPPIPANSFQLESDFRQLKSSPDMLYQYLKQIEPSLYPKLFQKNLDPDVFNQIVKILHD  
FYIEKEKPLLIFEILQRLSELKRFDMAVMFMSETEKKIARALFNHIDKSGLDSSVEELK

KRYGG

>sp|Q9NVU0|RPC5\_HUMAN DNA-directed RNA polymerase III subunit RPC5 OS=Homo sapiens  
GN=POLR3E PE=1 SV=1

MANEEDDPVVQEIDVYLAKSLAEKLYLFQYPVRPASMTYDDIPHLSAKIKPKQQKVELEM  
AIDTLNPNYCRSKGEQIALNVDGACADETSTYSSKLMQKTFCCSSQTTSNTSRYAAALYR  
QGELHLTPLHGILQLRPSFSYLDKADAKHREREAAANEAGDSSQDEAEDDVKQITVRFSRP  
ESEQARQRRVQSYEFLQKKHAEPPWVHLHYGLRDSRSEHERQYLLCPGSSGVENTELVK  
SPSEYLMMLPPSQEEEKDKPVAPSNVLSMAQLRTLPLADQIKILMKNVKVMPFANLSL  
LGPSIDSVAVLRGIQKVAMLVQGNWVVKSDILYPKSSSPHSGVPAEVLCRGRDFVMWKF  
TQSRWVVRKEVATVTKLCAEDVKDFLEHMAVVRINKGWEFILPYDGEFIKKHPDVVQRQH  
MLWTGIQAKLEKVVNLVKETMPKKPDAQSGPAGLVCGDQRIQVAKTKAQQNHALLERELQ  
RRKEQLRVPVAVPPGVRIKEEPVSEEGEEDDEQEAEEPMDTSPSGLHSLANGLPLGRAA  
GTDSFNHPPQGCSTPVARELKAFVEATFQRQFVLTSELKRLFNHLASLPPGHTLFS  
GISDRMLQDVTVAAGCKQILVPFPPTAASPDEQKVFWALWESGDMSDQHRQVLLIFSKN  
YRVRNMIQSRLTQECGEDLSKQEVDKVLKCCVSYGGMWYLKGTVQS

>sp|Q9UHV5|RPGLF\_HUMAN Rap guanine nucleotide exchange factor-like 1 OS=Homo sapiens  
GN=RAPGEFL1 PE=1 SV=2

MKPLEKFLKKQTSQLAGRTVAGGPGGGLGSCGGPGGGGPGGGGPAGGQSLQRRQSVS  
RLLLP AFLREPPAEPLGEPVPEEGEPAGVAEPPGSGGPCWLQLEEVPGPGPLGGGGPL  
RSPSSYSSDELSPEPLTSPWPAPLGAPEPEHLLNRVLERLAGGATRDSAASDILLDDI  
VLTHSLFLPTEKFLQELHQYFVRAGGMEGPEGLGRKQACLAMLLHFLDQYGLLQEEEGA  
GHIIKDLYLLIMKDESLYQGLREDTLRLHQLVETVELKIPEENQPPSKQVKPLFRHFRR  
DSCLQTRVAFRGSDIFCRVYMPDHSYVTIRSRLSASVQDILGSVTEKLQYSEEPAGRED  
SLILVAVSSSGEKVLLQPTEDCVFTALGINSHLFACTRDSYEALVPLPEEIQVSPGDTEI  
HRVEPEDVANHLTAFHWELFRCVHELEFVDYVFHGERGRRETANLELLLQRCSEVTHWVA  
TEVLLCEAPGKRAQLLKKFIKIAALCKQNQDLLSFYAVVMGLDNAAVSRLRLTWEKLPK  
FKNLFRKFENLTDPCRNHKSYREVISKMKPPVIPFVPLILKDLTFLHEGSKTLVDGLVNI  
EKLHSAEKVVRTIRKYRSRPLCLDMEASPNHLQTKAYVRQFQVIDNQNLLELSYKLEAN  
SQ

>sp|Q92834|RPGR\_HUMAN X-linked retinitis pigmentosa GTPase regulator OS=Homo sapiens  
GN=RPGR PE=1 SV=2

MREPEELMPDSGAVFTFGKSKFAENNPCKFWFKNDVPVHLSCGDEHSAVVTGNNKLYMFG  
SNNWGQLGLGSKSAISKPTCVKALKPEKVKLAACGRNHTLVSTEGGNVYATGGNNEGQLG  
LGDTEERNTFHVISFFTSEHKIKLSAGSNTSAALTEDGRLFMWGDNSEGQIGLKNVSNV  
CVPQQVTIGKPVSWISCGYHSAFVTTDGELYVFGEPENGKLGPNQLLGNHRTPLVSE  
IPEKVIQVACGGEHTVVLTENAVYTFGLGQFGQLGLGTFLFETSEPKV IENIRDQTISYI  
SCGENHTALITDIGLMTFGDGRHGKLGLENFTNHF IPTLCSNFLRFIVKL VACGGCH  
MVVFAAPHRGVAKEIEFDEINDTCLSVATFLPYSSLTSGNVLQRTLSARMRRRERERSPD  
SFSMRRTLPIEGTLGLSACFLPNSVFPRCSENLQESVLSEQDLMQPEEPDYLLDEMTK  
EAEIDNSSSTVESLGETTDILNMTHIMSLNSNEKSLKLSPVQKQKQQTIGELTQDTALTE  
NDDSEYEEMSEMKEGKACKQHVSQGIFMTQPATTIEAFSDEEVGNDTGQVGPQADTDGE  
GLQKEVYRHENNNGVQDLDAKIEKESDGGHSQKESEAEIDSEKETKLAETAGMKDLRE  
REKSTKKMSPFFGNLPDRGMNTESEENKDFVKKRESCKQDVIFDSERESVEKPDSYMEGA  
SESQQGIADGFQQPEAIEFSSGEKEDDEVETDQNI RYGRKLIEQGNEKETKPIISKMAK

YDFKCDRLSEIPEEKEGAEDSKNGIEEQVEANEENVKVHGGKKEKTEILSDDLTDKAE  
DHEFSKTEELKLEDVDEEINAENVESKKKTVGDDSVPTGYHSKTEGAERTNDDSSAETI  
EKKEKANLEERAICEYNENPKGYMLDDADSSSLEILENSETTPSKDMKTKKIFLFRVP  
SINQKIVKNNNEPLPEIKSIGDQIILKSDNKDADQNHMSQNHQNIPTNTERRSKSCTIL

>sp|P33764|S10A3\_HUMAN Protein S100-A3 OS=Homo sapiens GN=S100A3 PE=1 SV=1

MARPLEQAVAAIVCTFQEYAGRCGDKYKLCQAEKELLQKELATWTPTEFRECDYNKFMS  
VLDTNKDCEVDFVEYVRSACLCLYCHEYFKDCPSEPPCSQ

>sp|P55011|S12A2\_HUMAN Solute carrier family 12 member 2 OS=Homo sapiens GN=SLC12A2 PE=1  
SV=1

MEPRPTAPSSGAPLAGVGETPSAAALAAARVELPGTAVPSVPEDAAPASRDGGGVRDEG  
PAAAGDGLGRPLGTPSQSRFQVDLVSENAGRAAAAAAAAAAAAAAGAGAGAKQTPADG  
EASGESEPAKGSEEAAGRFRVNFVDPAASSSAEDSLSDAAGVGVDGPNVSFQNGGDTVLS  
EGSSLHSGGGGSGHHQHYYDTHNTYYLRTFGHNTMDAVPRIDHYRHTAAQLGEKLLR  
PSLAELHDELEKEPFEDGFANGEESTPTRDAVVITYAESKGVVKGWIKGVLVRCMLNIW  
GVMLFIRLSWIVGQAGIGLSVLVIMMATVTTITGLSTSAIATNGFVRGGGAYYLISRSL  
GPEFGGAIGLIFAFANAVAVAMYVVGFAETVVELLKEHSILMIDEINDIRIIGAITVVIL  
LGISVAGMEWEAKQIVLLVILLAILGDFVIGTFIPLESKKPKGFFGYKSEIFNENFGPD  
FREEETFFSVFAIFFPAATGILAGANISGDLADPQSAIPKGTLLAILITTLVYVGIASV  
GSCVVRDATGNVNDTIVTELNCTSAACKLNFDSSCESSPCSYGLMNNFQVMSMVSF  
PLISAGIFSATLSSALASLVSAPIFQALCKDNIYPAFQMFAGYKGNNEPLRGYILTFL  
IALGFILIAELNVIAPIIISNFFLASALINFSVFHASLAKSPGWRPAFKYYNMWISLLGA  
ILCCIVMFVINWWAALLTYVIVLGLYIYVTYKKPDVNWGSSTQALTYLNALQHSIRLSGV  
EDHVKNFRPQCLVMTGAPNSRPALLHLVHDFTKNVGLMICGHVHMGP RRQAMKEMSIDQA  
KYQRWLKKNMKAIFYAPVHADDLREGAQYLMQAAGLGRMKPNTLVLGFKDWLQADMRDV  
DMYINLFHDAFDIQYGVVVIRLKEGLDISHLQGQEELLSSQEKSPGTDVVVSVEYSKKS  
DLDTSKPLSEKPITHKVEEEDGKTATQPLLKKEKGPVPLNVADQKLEASTQFQKKQG  
KNTIDVWWLFDDGGLTLLIPYLLTTKKKWKDCKIRVFIGGKINRIDHRRAMATLLSKFR  
IDFSDIMVLGDINTPKPKENIIAFEEIIEPYRLHEDDKEQDIADKMKEDPWRITDNELE  
LYKTKTYRQIRLNELLKEHSSTANIIVMSLPVARKGAVSSALYMAWLEALSKDLPPILLV  
RGNHQSVLTFYS

>sp|Q9H2X9|S12A5\_HUMAN Solute carrier family 12 member 5 OS=Homo sapiens GN=SLC12A5 PE=1  
SV=3

MSRRFTVTSLPAGPARSPDPESRRHSVADPRHLPGEDVKGDGNPKESSPFINSTDTEKG  
KEYDGKNMALFEEEMDTPMVSSLLSGLANYTNLPQGSREHEEAENNEGKKKPVQAPRM  
GTFMGVYLPCLQNIQVILFLRLTWVVGIAIMESFCMVFICCSCTMLTAISMSAIATNG  
VVPAGGSYYMISRSLGPEFGGAVGLCFYLGTTFAGAMYILGTIEILLAYLPAMAIFKAE  
DASGEAAAMLNNMRVYGTCVLTCMATVVFVGKYNKFALVFLGCVILSILAIYAGVIKS  
AFDPPNFPICLLGNRTLSRHGFDVCAKLAWEGNETVTTRLWGLFCSSRFLNATCDEYFTR  
NNVTEIQGIPGAASGLIKENLWSSYLTKGVIVERSGMTSVGLADGTPIDMDHPYVFSMT  
SYFTLLVGIIYFSPVTGIMAGSNRSGDLRDAQKSIPTGTILAIATTSAVYISSVVLFGACI  
EGVVL RDKFGEAVNGNLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTGAPRLQAI SRDG  
IVPFLQVFGHGKANGEPTWALLTACICEIGILIASLDEVAPILSMFFLMCYMFVNLACA  
VQTLRLTPNWRPRFRYYHWTL SFLGMSLCLALMFICSWYYALVAMLIAGLIYKYIEYRGA  
EKEWGDGIRGLSLSAARYALLRLEEGPHTKNWRPQLLVLRVDQDQNVVHPQLLSLTSQ



LKAGKGLTIVGSVLEGTFLNHPQAQRAEESIRRLMEAEKVKGFCQVVISSNLRDGVSHL  
IQSGGLGGLQHNTVLVGWPRNWRQKEDHQTWRNFIELVRETTAGHLALLVTKNVSMFPGN  
PERFSEGSIDVWWIVHDGGMMLLPFLLRHHKVKWRCKMRIFTVAQMDDNSIQMKDLTT  
FLYHLRITAEVEVVMESDISAYTYEKTLMVEQRSQILKQMHLLTKNEREREIQSITDES  
RGSIRRNPNANTRLRLNVPEETAGDSEEKPEEEVQLIHDQSAPSCPSSSPSGEEPEGEG  
ETDPEKVHLTWTCKDSVAEKNKGPSVPSSEGIKDFFSMKPEWENLNQSNVRRMHTAVRLN  
EVIVKKSRAKLVLNMPGPPNRNRNGDENYMEFLEVLTEHLDRVMLVRGGGREVITIYS

>sp|Q9Y666|S12A7\_HUMAN Solute carrier family 12 member 7 OS=Homo sapiens GN=SLC12A7 PE=1  
SV=3

MPTNFTVVPVEAHADGGGDETAERTEAPGTPEGPEPERPSPGDGNPRENSPFLNNVEVEQ  
ESFFEGKNMALFEEEMDSNPMVSSLLNKLANYTNLSQGVVEHEEDEESRRREAKAPRMGT  
FIGVYLPCLQNILGVILFLRLTWIVGVAGVLESFLIVAMCCTCTMLTAISMSAIATNGVV  
PAGGSYYMISRSLGPEFGGAVGLCFYLGTTFAGAMYILGTIEIFLTYISPGAAIFQAEAA  
GGEAAAMLHNMRYGTCTLVLMALVVFVGKYNKLALVFLACVVLSILAIYAGVIKSAF  
DPPDIPVCLLGNRTLSRRSFDACVKAYGIHNSATSALWGLFCNGSQPSAACDEYFIQNN  
VTEIQGIPGAASGVFLENLWSTYAHAGAFVEKKGVPSPVAEESRASALPYVLTDAASF  
TLLVGIIYFPSVTGIMAGSNRSGDLKDAQSIPTGTILAIVTTSFIYLSLIVLFGACIEGV  
VLRDKFGEALQGNLVIGMLAWPSPWVIVIGSFFSTCGAGLQSLTGAPRLQAIARDGIVP  
FLQVFGHGKANGEPTWALLTLVICETGILIASLDSVAPILSMFFLMCYLFVNACAVQT  
LLRTPNWRPRFKFYHWTLSFLGMSLCLALMFICSWYYALSAMLIAGCIYKIEYRGAEKE  
WGDGIRGLSLNAARYALLRVEHGPPHTKNWRPQVLVMLNLDAEQAVKHPRLSFTSQLKA  
GKGLTIVGSVLEGTLYLDKHMEAQRAEENIRSLMSTETKGFQCLVSSSLRDGMSHLIQS  
AGLGLLKHNTVLMAPASWKQEDNPFWSKNFVDTVRDTAAHQALLVAKNVDSFPQNQER  
FGGGHIDVWWIVHDGGMMLLPFLLRQHKVWRCKMRIFTVAQVDDNSIQMKDLQMFLY  
HLRISAEVEVVMENDISAFYERTLMMEQRSQMLKQMLSKNEQEREQLIHDRNTAS  
HTAAAARTQAPPTPDVKVQMTWTREKLIAEKYRSRDTSLSGFKDLFSMKPDQSNVRRMHTA  
VKLNGVVLNKSQDAQLVLNMPGPPKNRQGDENYMEFLEVLTEGLNRVLLVRGGGREVIT  
IYS

>sp|A0AV02|S12A8\_HUMAN Solute carrier family 12 member 8 OS=Homo sapiens GN=SLC12A8 PE=2  
SV=4

MTQMSQVQELFHEAAQQDALAQPPWKTQLFMWEPVLFGTWDGVFTSCMINIFGVVFL  
RTGWLVGNTGVLLGMFLVSFVILVALVTLSGIGVGERSSIGSGGVYSMISSVLGGQTGG  
TIGLLYVFGQCVAGAMYITGFAESISDLLGLGNIWAVRGISVAVLLALLGINLAGVKWII  
RLQLLLLFLAVSTLDFVVGSTHLDPEHGFIGYSPELLQNNTPDYSPGESFFTVPFGVF  
FPAATGVMAGFNMGGDLREPAASIPLGSLAAVGISWFLYIIFVFLGAICTREALRYDFL  
IAEKVSLMGFLFLLGLYISSLASCMGGLYGAPRILQCIAQEKVIPALACLGQKGPNKTP  
VAAICLTSLVTMAFVFGQVNVLAPIVTINFMLTYVAVDYSYFSLSMCSCSLTPVPEPVL  
REGAEGHLHCSEHLLLEKAPSYGSEGAQRVLEGTLLEFTKMDQLLQLTRKLESSQPRQG  
EGNRTPEQKRKSKKATKQTLQDSFLLDLKSPPSFPVEISDRLPAASWEGQESCWNKQTS  
KSEGTQPEGTYGEQLVPELCNQSESSGEDFFLKSRLQEQDVRRSTSFYTHMCNPWVSL  
GAVGSLLIMFVIQWVYTLVNMGVAAIVFYIGRASPLHLGSASNFSFFRWMSLLLPSC  
RSLRSPQEII LAPSLAKVDMEMTQLTQENADFATRDRYHSSSLVNREQLMPHY

>sp|Q9UKG4|S13A4\_HUMAN Solute carrier family 13 member 4 OS=Homo sapiens GN=SLC13A4 PE=2  
SV=2

MGLLQGLLRVRKLLLVVCPVLLLLPLVLPVHPSSSEASCAYVLIVTAVYVWSEAVPLGAAAL  
VPAFLYPFFGVLRSNEVAAEYFKNTTLLVGVICVAAAVEKWNLHKRIALRMVLMAGAKP  
GMLLLCFMCCTTLLSMWLSNTSTTAMVMPIVEAVLQELVSAEDEQLVAGNSNTEEAEPIS  
LDVKSQPSLELIFVNEESNADLTTLMHNENLNGVPSITNPIKTANQHKGKKQHPSQKEP  
QVLTPSPRKQKLNRYRSHHDQMICKCLSLSISYSATIGGLTTIIGTSTSLIFLEHFNNQ  
YPAAEVVNFGTWFLFSFPISLIMLVVSWFWMHWFLLGCNFKETCSLSKKKKTKREQLSEK  
RIQEEYEKLGDISYPEMVTGFFFILMTVLWFTREPGFVPGWDSFFEKKGYRTDATVSVFL  
GFLFLIPAKKPCFGKKNDGENQEHS LGTEPIITWKDFQKTPWEIVILVGGGYALASGS  
KSSGLSTWIGNQMLSSSLPPWAVTLLACILVSIVTEFVSNPATITIFLPILCSLSETLH  
INPLYTLIPVTMCISFAVMLPVGPNPNAIVFSYGHQIKDMVKAGLGVNIGLVIVMVAI  
NTWGVSLFHLDTYPAWARVSNITDQA

>sp|076054|S14L2\_HUMAN SEC14-like protein 2 OS=Homo sapiens GN=SEC14L2 PE=1 SV=1

MSGRVGDLSRQKEALAKFRENVDVLPALPNPDDYFLLRWLRARSFDLQKSEAMLRKHV  
EFRKQKDIDNIISWQPPEVIQYLSGGMCGYDLGCPVWYDIIGPLDAKGLLFSASKQDL  
LRTKMRECELLLQCAHQTTKLGRKVETITIIYDCEGLGLKHLWKPAVEAYGEFLCMFEE  
NYPETLKRFLFVVKAPKLPVAYNLIKPFLSEDTRKKIMVLGANWKEVLLKHISPDQVPVE  
YGGTMTDPDGNPKCKSKINYGGDIPRKYVVRDQVKQYEHVSVQISRGSSHQVEYEILFPG  
CVLRWQFMSDGADVGFGLTKMGERQRAGEMTEVLPNQRYNSHLVPEDGTLTCSDPGI  
YVLRFDNTYSFIHAKKVNFTEVLLPDKASEEKMQLGAGTPK

>sp|Q9UDX3|S14L4\_HUMAN SEC14-like protein 4 OS=Homo sapiens GN=SEC14L4 PE=1 SV=1

MSSRVGDLSPPQQEALARFRENLDLLPILPNADDYFLLRWLRARNFDLQKSEDMLRRHM  
EFRKQQLDNIIVTWQPPEVIQLYDSGGLCGYDEGCPVYFNIIGSLDPKGLLSASKQDM  
IRKRIKVCCELLLHECELQTQKLGRKIEMALMVFDMEGLSLKHLWKPAVEVYQQFFSILEA  
NYPETLKNLIVIRAPKLPVAFNLVKSFMSEETRRKIVILGDNWKQELTKFISPDQLPVE  
FGGTMTDPDGNPKCLTKINYGGEVPKSYLCEQVRLQYEHTRSVGRGSSLQVENEILFPG  
CVLRWQFASDGGDIGFVFLTKMGEQQSAREMTEVLPNQRYNAHMPEDGSLTCLQAGV  
YVLRFDNTYSRMHAKKLSYTVEVLLPDKASEETLQSLKAMRPSPTQ

>sp|Q9NRA2|S17A5\_HUMAN Sialin OS=Homo sapiens GN=SLC17A5 PE=1 SV=2

MRSPVRDLARNDGEESTDRTPLLPGAPRAEAPVCCSARYNLAILAFFGFFIVYALRVNL  
SVALVDMVDSNTTLEDNRTSKACPEHSAPIKVHHNQTKKYQWDAETQGWILGSFFYGYI  
ITQIPGGYVASKIGGKMLLGFGILGTAVLTLFTPIAADLGVGPLIVLRALEGLGEGVTFP  
AMHAMWSSWAPPLERSKLLSISYAGQLGTVISLPLSGIICYMNWTVYFYFFGTIGIFW  
FLLWIWLVSDTPQKHKRISHYEKEYILSSLRNQLSSQKSVPWVPILKSLPLWAIVVAHFS  
YNWTFYTLTLLPTYMKEILRFNVQENGFLSSLPYLGSWLCMILSGQAADNLRKWNFST  
LCVRRIFSLIGMIGPAVFLVAAGFIGDYSLAVAFLTISTTLGGFCSSGFSINHLDIAPS  
YAGILLGITNTFATIPGMVGPVIAKSLTPDNTVGEWQTVFYIAAAINVFGAIFFTLFAKG  
EVQNWALNDHHGHRH

>sp|015244|S22A2\_HUMAN Solute carrier family 22 member 2 OS=Homo sapiens GN=SLC22A2 PE=1 SV=2

MPTTVDDVLEHGGEFFHFQKQMFLLALLSATFAPIYVGIVFLGFTPDHRCRSPGVAELS  
LRCGWSPAELNYTVPGPAGEASPRQCRRYEVDWNQSTFDCVDPLASLDTNRSRLPLG  
PCRDGWVYETPGSSIVTEFNLCANSWMLDLFQSSVNVGFFIGSMSIGYIADRFGRKLCL  
LTTVLINAAAGVLMASPTYTWMLIFRLIQGLVSKAGWLIGYILITEFVGRRYRRTVGIF  
YQVAYTVGLLVLAGVAYALPHWRWLQFTVSLPNFFFLYYWCIPESPRWLISQNKNAEAM

RIIKHIAKKNKSLPASLQRLLEEETGKKLNPSFLDLV RTPQIRKHTMILMYNWF TSSV  
LYQGLIMHMLAGDNIYLDFFYSALVEFPAAFMII LTIDRIGRRYPWAASN MVAGAACLA  
SVFIPGDLQWLKIIISCLGRMGITMAYEIVCLVNAELYPTFIRNLGVHICSSMCDIGGII  
TPFLVYRLTNIWLELPLMVFGVLGVAGGLVLLLPETKGKALPETIEEAENMQRPKNKE  
KMIYLQVQKLDIPLN

>sp|075751|S22A3\_HUMAN Solute carrier family 22 member 3 OS=Homo sapiens GN=SLC22A3 PE=1 SV=1

MPSFDEALQRVGEFGRFQRRVFLLLCLTGVTF AFLFVG VVFLGTQPDHYWCRGPSAAALA  
ERCWSPEEEWNRTAPASRGPEPPERRGRCQRYLLEAANDSASATSALSCADPLAAFPNR  
SAPLVPCRGGWRYAQAHSTIVSEFDLVCVNAWMLDLTQAILNLGFLTGAFTLGAAADRYG  
RIVIYLLSCLGVGTGVVAFAPNFPVFVIFRFLQGVFGKGTWMTCYVIVTEIVGSKQRR  
IVGIVIQMFFTGLGIIILPGIAYFIPNWQGIQLAITLPSFLFLYYWVPESPRWLITRKK  
GDKALQILRRIAKCNGKYLSSNYSEITVTDEEVS NPSFLDLV RTPQMRKCTLILMFAWFT  
SAVVYQGLVMRLGIIIGGNLYIDFFISGVVELPGALLILTIERLGRRLPFAASNIVAGVA  
CLVTAFLPEGIAWLRTTVATLGRLGITMAFEIVYLVNSELYPTTLRNFGVSLCSGLCDFG  
GIIAPFLLFRLAAVWLELPLIIFGILASICGGLVMLLPETKGIALPETVDDVEKLGSPHS  
CKCGRNKKTPVSRSHL

>sp|Q63ZE4|S22AA\_HUMAN Solute carrier family 22 member 10 OS=Homo sapiens GN=SLC22A10 PE=2 SV=2

MAFEELLSQVGGLGRFQMLHLVFI LPSLMLLIPHILLENFAAAIPGHRCWVHMLDNNTGS  
GNETGILSEDALLRISIPLDSNL RPEKCRRFVHPQWQLLHNGTIHSTSEADTEPCVDGW  
VYDQSYFPSTIVTKWDLVCDYQSLKSVVQFLLLTGMLVGGIIGGHVSDRFGRF ILRWCL  
LQLAITDTCAAFAPTFPVYCVLRFLAGFSSMIIISNNSLPITEWIRPNSKALVVILSSGA  
LSIGQIILGGLAYVFRDWT LHVVASVPFFVFFLSRWLVESARWLIITNKLDEGLKALR  
KVARTNGIKNAEETLNIEVVRSTMQEELDAAQTKT TVCDLFRNPSMRKRICILVFLRFAN  
TIPFYGTMVNLQHVGSNIFLLQVLYGAVALIVRCLALLTLNHMGRRISQILFMFLVGLSI  
LANTFVPKEMQTLRVALACLGIGCSAATFSSVAVHFIELIPTVLRARASGIDLTASRIGA  
ALAPLLMTLTVFFTTL PWIIYIGFPIIGGLIVFLLPETKNLPLPDTIKDVENQKNLKEK  
A

>sp|Q9Y267|S22AE\_HUMAN Solute carrier family 22 member 14 OS=Homo sapiens GN=SLC22A14 PE=2 SV=4

MAGEENFKEELRSQDASRNLNQHEVAGHPHSWSLEMLLRR LRAVHTKQDDKFANLLDAVG  
EFGTFQQLVALTFIPSIMSAFFMFADHFVFTAQKPYCNTSWILAVGPHLSKAEQLNLT I  
PQAPNGSFLT CFMYLPVPWNLDSIIQFGLNDTDCQDGWIYPDAKKRSLINEFDLVCGME  
TKKDTAQIMFMAGLPIGSLIFRLITDKMG RYPAILLSLLGLIIFGFGTAFMNSFHLYLFF  
RFGISQSVVGYAIISSISLATEWL VGEHRAHAILGHCFFAVGAVLLTG IAYSLPHWQLLF  
LVGGILVIPFISYI WILPESPRWLM MGKVKEAKQVLCYAA SVNKKTIPSNLLDELQLPR  
KKVTRASVLD FCKNRQLCKVT LVMSCVWFTVSYTYFTLSLRMRELGVSVHFRHVVP SIME  
VPARLCCIFLLQQIGRKWSLAVTLLQAI IWCLLLLFLPEGEDGLRLKWPRCPATELKSMT  
ILVLM LREFSLAATVTVFFLYTAELLPTVLRATGLGLVSLASVAGAILSLTIISQTPSLL  
PIFLCCVLAIVAFSLSSLLPETRDQPLSESLNHSSQIRNKVKDMKTKETSSDDV

>sp|Q9UHI7|S23A1\_HUMAN Solute carrier family 23 member 1 OS=Homo sapiens GN=SLC23A1 PE=1 SV=3

MRAQEDLEGRTQHETTRDPSTPLPTEPKFDMLYKIEDVPPWYLCILLGFQHYLTCFSGTI

AVPFLLAELCVGHDQHMVSQIGTIFTCTVCGITTLLIQTTVGIRLPLFQASAFALVPAKA  
ILALERWKCPEEEIYGNWSLPLNTSHIWHPRIREVQGAIMVSSVVEVIGLLGLPGALL  
NYIGPLTVTPTVSLIGLSVFAQAGDRAGSHWGISACSILLIILFSQYLRLNLTFLLPVYRW  
GKGLTLLRIQIFKMFIMLAIMTVWLLCYVLTLDVLTDPKAYGFQARTDARGDIMATA  
PWIRIPYPCQWGLPTVTAAAVLGMFSATLAGIIESIGDYYACARLAGAPPPVHAINRGI  
FTEGICCIAGLLGTNGSTSSSPNIGVLGITKVGSRVVQYGAAIMLVLTIGKFTALF  
SSLPDPILGGMFCTLFGMITAVGLSNLQFVDMNSSRNLFVLGFSMFFGLTLPNYLESNPG  
AINTGILEVDQILIVLLTTEMFVGCLAFILDNTVPGSPEERGLIQWKAGAHANSDMSSS  
LKSYDFPIGMGIVKRITFLKYIPICPVFKGFSSSSKQIAIPEDTPENTETASVCTKV

>sp|Q9BSK2|S2533\_HUMAN Solute carrier family 25 member 33 OS=Homo sapiens GN=SLC25A33  
PE=1 SV=1

MATGGQKENTLLHLFAGGCGGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTIS  
GAGMVRPTSVTPGLFQVLKSIKEGPKSLFRGLGPNLVGVAPSRVYFACYSKAKEQFN  
GIFVPSNIVHIFSAGSAAFITNSLMNPIWMVKTRMQLEQKVRGSKQMNTLQCARYVYQT  
EGIRGFYRGLTASYAGISETIICFAIYESLKKYLKEAPLASSANGTEKNSTSFFGLMAAA  
ALSKGCASCIAYPHEVIRTRLREEGTKYKSFVQTARLVFREEGYLAFYRGLFAQLIRQIP  
NTAIVLSTYELIVYLLEDRTQ

>sp|Q96DW6|S2538\_HUMAN Solute carrier family 25 member 38 OS=Homo sapiens GN=SLC25A38  
PE=1 SV=1

MIQNSRPSLLQPQDVGDVTETMLHPVIKAFLCGSISGTCSTLLFQPLDLLKTRLQTLQP  
SDHGSRRVGMLAVLLKVVRTESLLGLWKGMSPIVRCVPGVGIYFGTLYSLKQYFLRGHP  
PTALESVMLGVGSRVAGVCMSPITVIKTRYESGKYGYESIYAALRSIYHSEGHRLFGS  
LTATLLRDAPFSGIYLMFYNQTKNIVPHDQVDATLIPITNFSCGIFAGILASLVTQPADV  
IKTHMQLYPLKFQWIGQAVTLIFKDYGLRGFFQGGIPRALRRTLMAAMAWTVYEEMMAKM  
GLKS

>sp|Q9Y2P4|S27A6\_HUMAN Long-chain fatty acid transport protein 6 OS=Homo sapiens  
GN=SLC27A6 PE=2 SV=1

MLLSWLTVLGAGMVVLHFLQKLLFPYFWDDFWFVLKVVLIIIRLKKEYEKRGEVTVLDKF  
LSHAKRQPRKPFIIYEGDIYTYQDVDRSSRVAVHVLNHSLLKKGDTVALLMSNEPDFVH  
VWFGAKLGCVAFLNTNIRSNSLLNCIRACGPRLVVGADLLGTVEEILPSLSENISVW  
GMKDSVPQGVISLKEKLSTSPDEVPVRSHHVVSLLKSTCLYIFTS GTTGLPKAAVISQLQ  
VLRGS AVLWAFGCTAHDIVYITLPLYHSSAAILGISGCVELGATCVLKKKSASQFWSDC  
KKYDVTVFQYIGELCRYLCKQSKREGEKDHKVRLAIGNGIRSDVWREFLDRFGNIKVCEL  
YAATESISFMNYTGRIGAIGRTNLFYKLLSTFDLIKYDFQKDEPMRNEQGWCIVHKKGE  
PGLLISRVNAKNPFFGYAGPYKHTKDKLLCDVFKKGDVYLN TGDLIVQDQDNFLYFWDRT  
GDTFRWKGENVATTEVADVIGMLDFIQEANVYGVAISGYEGRAGMASIILKPNTSLDLEK  
VYEQVVTFLPAYACPRFLRIQEKMEATGTFKLLKHQLVEDGFNPLKISEPLYFMDNLKKS  
YVLLTRELYDQIMLGEIKL

>sp|O00337|S28A1\_HUMAN Sodium/nucleoside cotransporter 1 OS=Homo sapiens GN=SLC28A1 PE=1  
SV=2

MENDPSRRRESISLTPVAKGLENMGADFLESLEEGQLPRSDLSPAIEIRSSWSEAAPKPF  
RWRNLQPALRARSFCREHMQFLRWIGTGLLCTGLSAFLLVACLLDFQRALALFVLT CVVL  
TFLGHRLLKRLLGPKLRRFLKPQGHPRLLLWFKRGLALAAFLGLVLWLSLDT SQRPEQLV  
SFAGICVFVALLFACSKHHCASVWRAVSWGLGLQFVLGLLVIRTEPGFIAFEWLGEQIRI

FLSYTKAGSSFFVGEALVKDVFAFQVLPPIIVFFSCVISVLYHVGLMQWVILKIAWLMQVT  
MGTTATETLSVAGNIFVSQTEAPLLIRPYLADMTLSEVHVMTGGYATIAGSLLGAYISF  
GIDATSLIAASVMAAPCALALSKLVYPEVEESKFRREEGVKLTYGDAQNLIEAASTGAAI  
SVKVVANIAANLIAFLAVLDFINAALSWLGDMDIQGLSFQLICSYILRPVAFLMGVAVE  
DCPVVAELLGIKFLNEFVAYQDLSKYKQRRLAGAEWVGDRKQWISVRAEVLTTFALCG  
FANFSSIGIMLGGLTSMVPQRKSDFSQIVLRALFTGACVSLVNACMAGILYMPRGAEVDC  
MSLLNTLSSSSFEIYQCCREAFQSVNPEFSPEALDNCCRFYNHTICAQ

>sp|Q99808|S29A1\_HUMAN Equilibrative nucleoside transporter 1 OS=Homo sapiens GN=SLC29A1  
PE=1 SV=3

MTTSHQPQDRYKAVWLIFFMLGLGTLTPWNFFMTATQYFTNRLDMSQNVSLVTAELSKDA  
QASAAPAAPLPERNSLSAIFNNVMTLCAMPLLLLFTYLSFLHQRIPQSVRILGSLVAIL  
LVFLITAILVKVQLDALPFFVITMIKIVLINSFGAILQGSLFGLAGLLPASYTAPIMSGQ  
GLAGFFASVAMICAIASGSELSAAGYFITACAVIILTIICYLGLPRLEFYRYYQQLKL  
EGPGEQETKDLISKGEEPRAGKEESGVSVSNSQPTNESHKAILKNISVLAFSVCFIF  
TITIGMFPVAVTEVKSSIASGSTWERYFIPVSCFLTNIIFDWLGRSLTAVFMWPGKDSRW  
LPSLVLARLVFVPLLLCNIPRRYLTVVFEHDAWFIFFMAAFASNGYLASLCMCFGPK  
KVKPAEAEAGAIMAFFLCLGLALGAVFSFLFRAIV

>sp|Q14542|S29A2\_HUMAN Equilibrative nucleoside transporter 2 OS=Homo sapiens GN=SLC29A2  
PE=1 SV=3

MARGDAPRDSYHLVGISFFILGLGTLTPWNFFITAIPYFQARLAGAGNSTARILSTNHTG  
PEDAFNFNWVTLLSQLPLLLFTLLNSFLYQCVPETVRILGSLAILLLFALTAALVKVD  
MSPGPFFSITMASVCFINSFSAVLQGSFLGQLGTMPTSTYTLFLSGQGLAGIFAALAMLL  
SMASGVDAETSALGYFITPCVGILMSIVCYLSLPHLKFARYYLANKSSQAQAQELETKAE  
LLQSDENGIPSSPQKVALTDLDEKEPESEPEPQKPGKPSVFTVFQKIWLTALCLVLV  
FTVTLSVFPAITAMVTSSTSPGKWSQFFNPICFLLFNIMDWLGRSLTSYFLWPDEDSRL  
LPLLVLCLRFLFVPLFMLCHVPQRSRLPILFPQDAYFITFMLLFAVSNGYLVSLTMCLAPR  
QVLPHEREVAGALMTFFLALGLSCGASLSFLFKALL

>sp|Q9BZD2|S29A3\_HUMAN Equilibrative nucleoside transporter 3 OS=Homo sapiens GN=SLC29A3  
PE=1 SV=3

MAVSEDDFQHSSNSTYRTTSSSLRADQEALLEKLLDRPPPGLQRPEDRFCGTYYIIFSL  
GIGSLLPWNFFITAKEYWMFKLRNSSPATGEDPEGSDILNYFESYLAVASTVPSMLCLV  
ANFLLVNRVAVHIRVLASLTVILAIFMVITALVKVDTSSWTRGFFAVTIVCMVILSGAST  
VFSSSIYGMTGSFPMRNSQALISGGAMGGTVSAVASLVDLAASSDVRNSALAFFLTATVF  
LVLCMGLYLLSRLEYARYYMRPVLAHVFSGEEELPQDSLSAPSVASRFIDSHTPPLRP  
ILKKTASLGFCVTVYFFITSLIYPAICTNIESLNKSGSLWTTKFFIPLTTFLLYNFADL  
CGRQLTAWIQVPGPNSKALPGFVLLRTCLIPFVLCNYQPRVHLKTVVFQSDVYPALLSS  
LLGLSNGYLSTLALLYGPKIVPRELAEATGVVMSFYVCLGLTLGSACSTLLVHLI

>sp|Q8IU14|S29P2\_HUMAN Putative protein SNX29P2 OS=Homo sapiens GN=SNX29P2 PE=5 SV=2

MDEERSSMLPTMAAGPNSILFAINIDNKDLNGQSKFAPTVDLLKESTQNVTLLESTQG  
VSSVFREITASSAISILIKPEQETDPLPVSRNVSADAKCKKRRKKKKQVTNIIISFDDEE  
DEQNSGDMFKKTPGAGESSEDNSDHSSVNIMSAFESPFPGPNSNGSQSSNSWKIDSLSLNR  
EFGYQKLDVKSIDDEDVDENEDDVGNGSSGRKHRGHSESPKNGAHSVTQAGVQWHDLS  
LQPLPPGFK

>sp|Q9NR83|S2A4R\_HUMAN SLC2A4 regulator OS=Homo sapiens GN=SLC2A4RG PE=1 SV=4

MERPPRAAGRDPSALRAEAPWLRAEGPGPRAAPVTVP TPPQGSSVGGGFAGLEFARPQE  
SEPRASDLGAPRTWTGAAAGPRTPSAHIPVPAQRATPGKARLDEVMAAAALTSLS SPLL  
LGAPVAAFSPEPGLPEWKEALVRPPGSYSSSSNSGDWGDWLDASDQSSPSTPSPLPPEAA  
HFLFGEPTLRKRKSPAQVMFQCLWKSCGKVLSTASAMQRHIRLVHLGRQAEPEQSDGEED  
FYYTELDVGVDLTDGLSSLTPVSPTASMPPAFPRLELPELLEPPALPSPLRPPAPPLPP  
PPVLSTVANPQSCHSDRVYQGCLTPARLEPQPTEVGACPPALSSRIGVTLRKPRGDAKKC  
RKVYGMERRDLWCTACRWKKACQRFLD

>sp|Q9UHR5|S30BP\_HUMAN SAP30-binding protein OS=Homo sapiens GN=SAP30BP PE=1 SV=1  
MAGKKNVLSLAVYAEDSEPESDGEAGIEAVGSAAEKGGVLSDAYGEDDFSRLGGDEDG  
YEEEDENSRSQSEDDSETTEKPEADDPKDNTAEKRDPQELVASFSERVRNMSPDEIKIP  
PEPPGRCSNHLQDKIQKLYERKIKEGMDMNYIIQRKKEFRNPSIYEKLIQFCAIDELGTN  
YPKDMFDPHGWSSESYEALAKAQKIEMDKLEKAKKERTKIEFVTGTTKGTNNATSTTT  
TTASTAVADAQKRKSKWDSAIPVTITIAQPTILTTTATLPAVVTVTTSASGSKTTVISAVG  
TIVKKAKQ

>sp|Q5VVP1|S31A6\_HUMAN Spermatogenesis-associated protein 31A6 OS=Homo sapiens  
GN=SPATA31A6 PE=3 SV=1

MENLPFPLKLLSASSLNAPSSTPWVLDIFLTLVFALGFFFLLLPYLSYFHCDDPPSPSPG  
KRKCPVGRRRRPRGRMKNHSLRAGRECPRGLEETSDLLSQLQSLLGPHLDKGDGQLSGP  
DPPGEVGERAPDGASQSSHEPMEDAAPILSPLASDPQAKHPQDLASTPSPGPMTTSVSS  
LSASQPPEPSLPLEHPSPEPPALFPHPPHTPDPLACSPPPPKGFTAPPLRDSTLITPSHC  
DSVALPLGTVPQSLSPHEDLVASVPAISGLGGSNSHVSASSRWQETARTSCAFNSSVQQD  
PLSRHPPETCQMEAGSLFLLSSDGQNVVGIQVTETAKVNIWEEKENVGSTNQMTPEKHL  
NSLGNLAKSLDAEQDTTNPKPFWNMGENSKQLPGPQKCSDPRLQESFWKNYSQLFWGLP  
SLHSESLVANAWVTDRSYTLQSPPFNFEMSNVCPIQRETTMSPLLFAQPLSHRQPFIS  
STPQFLPTPMAQAEQAHLQSSFPVLSPAFPSLIKNTGVACPASQNKVQALSPLPETQHPE  
WPLLRKQLEGRLLALPSRVQKSQDVFSVSTPNLPQESLTSILPENFPVSPELRRQLEQHIK  
KWI IQHWGNLGRIQESLDLMQLRDESPGTSQAKGKPSPWQSSTSTGESSKEAQVKFQLE  
RDLCPHLGQILGETPQNLSRDMKSFPRKVLGVTSEESERNLRKPLRSDSGSDLLRCTERT  
HIENILKAHMGRNLGQTNEGLIPVRVRRSWLAVNQALPVSNTHVKTSNLAAPKSGKACVN  
TAQVLSFLEPCTQQGLGAHIVRFWAKHRWGLPLRVLPKIQCFKLEKVSSLSLTQLAGPSS  
ATCESGAGSEVEVDMFLRKPPMASLRKQVLTKASDHMPESLLASSPAWKQFQRAPRGIPS  
WNDHGPLKPPAGQEGRWPSKPLTYSLTGSTQQSRLGAQSSKAGETREAVPQCRVPLET  
CMLANLQATSEDVHGFAPGTSKSSSLHPRVSVSQDPRKCLMEEVSEFEPGMATKSETQ  
PQVCAAVVLLPDGQASVVPHASENLVSQVPQGHLQSMPTGNMRASQELHDLMAARRSKLV  
QEEPRNPNCQGSCSKSRPMFPPIHKSEKSRKPNLEKHEERLEGLRTPQLTPVRKTEDTHQ  
DEGVQLLPSKKQPPSVSHFGENIKQFFQWIFSKKKSKPAPVTAESQKTVKNRSCVYSSA  
EAQGLMTAVGQMLDKMSLCHAAHASKVNQHKQKFQAPVCGFPCNHRHLFYSEHGRILSY  
AASSQQATLKSQGCNDRQIRNQQLKSVRCNNEQWGLRHPQILHPKKAVSPVSPQHW  
PKTSGASSHHHCPRHCLLWEGI

>sp|Q5VZV4|S31B1\_HUMAN Putative spermatogenesis-associated protein 31B1 OS=Homo sapiens  
GN=SPATA31B1P PE=5 SV=1

MKPWWARDWALPSRGCVCPEGTNACLDAERACRECPRGLEETWDLLSQLQSLLGTHLDK  
GDFGQLSGPEPPGEVGRAPDGASRSSLEPMEDAAPIIYLLASDPRIKHPQDLASTPSP  
GPMTTSVSSLSASQPPEPSLLLERPSKPPALFLTHHTPLILWPALLLLQKTSLLLPCGT

PL

>sp|Q6ZQQ2|S31D1\_HUMAN Spermatogenesis-associated protein 31D1 OS=Homo sapiens  
GN=SPATA31D1 PE=2 SV=1

MENILCFLNSYTETGLSPDSHWLDIDPNFICLSGLGLFILYLIFYVVLTYSSPTEKNNDI  
QKHQGRAKRRRKGGTFKGFDPWKSFQREEEERKLLSLLKSFGPPVSCSPRGQHHDTHNF  
RRLCPDPVCRVCKRATADIQQLLSWESLKDAAPSVSPASSASATESSTLASTPSATP  
PEDLILSPRPKASPPPLILSPDLITTLADLFSPSPLRDPLPPQPVSPLDKFPIDHSPP  
QQLPFLLPPHHIERVESSLQPEASLSLNTIFSFGSTLCQDISQAMNPIDSCARHHGPP  
PSALPPEDCTVTQSKSSLTILKTFPEMLSLGGSGGSSTSAPTIGIDHSHLASSEFTWWQ  
PHAKDSFSSNFVPSDFMEELLTLHSSEAFLGHSVANLIEPVNISFLSHDILALLERQVK  
KRGDFLMWKENGKKPGSFPKQLRPNYQLNSSRNMLTSIAVKHDLAESFPFWASKGKLEWQ  
HIHQPPHSHKCFEDHLEQKYVQLFWGLPSLHSESLHPTVLVQRGHSSMFVFFNGITNTSI  
SHESPVLPQQPLSLPSTQPLPLPQTLPGGQSPHLTQVKSLAQPSPFALLPSPLFLIR  
ICGVCFHRPQNEARSLPSEINHLEWNVLQKVQESLWGLPSVVQKSQEDFCPPAPNPELV  
RKSKFVHPVISIIPGDFPLSSEVRKKLEQHIRRRLIQRWGLPRRIHESLSLLRPQSKIS  
ELSVSERIHGPLNISLVEGQRCNVLKKSASSFPRSFHERSSNMLSMENVGNYQGYSQETV  
PKDHLHGPETSSDKDLRSNSERDLETHMMHLSGNDSGVRLGQKQLENALTURLSKKFEE  
INEGRMPGTVHSSWHSVKQTMSLPEKSHSQIKHRNLVTLVSEDHCVDTSQEISFLSSNKQ  
KMLEAHIKTFMRMLWGLPLKVLESIEIFKSKADLSTSFHFDLPSSATFISQGDSKDG  
SKSRSRSTFQGEKLTSSVPIIDRPHPVSSPVVQEGQTLRRQFSDTDHDLIETDSKDG  
ASTSLRRGTTDFQSEKLDSTSSFPILGHSYLVTSVPVNEKQGTLRREFSDTDNDLTESVR  
TTEDGRQTFLPPHSIVDEVSKQTVLASRCSAELPIMQAGACESWDKRKSSFHNVDRL  
QGSRKTFPVNTALQSQTRNNLTSSKSGSCSLTNVKASTNETEIFPPRISVPQDPKSSYL  
KNQMLSQKLVLQRKHSQPQSHFTDMSFALDNLSSKDLLTNSQGISSGDMGTSQVVHVHLE  
DSGIRVAQKQEPVPTCVLQKCQVTNFPVAVNRVSPVRPKGGELDGGDAGLGTSSRRRKS  
LPVHNKTSGEVLGSKSSPTLKTQPPENLFRKWMKTSLQWFNKPSISYEEQESSWEKGSS  
LSSCVQNI GRVIRAAFTGTTEAQKIRKDTREFLEEKLGHRHGIDITCPQEPLSFPVGLGK  
AQHNPEVHVRAEPVQGCPCNYRAPSKVTRTKSCSQQAIFVGQNYPTRIRQIIDKDRQPQ  
KVEAFKGIKLCQSHPQSMHRKPVPHNPCTCRRQVSLVCPAVPTSAKSPVFSVPFLTGQ  
KMLPKHLQGGKFPPTK

>sp|Q6ZUB0|S31D4\_HUMAN Putative spermatogenesis-associated protein 31D4 OS=Homo sapiens  
GN=SPATA31D4 PE=5 SV=1

MENILCFLNSYTETVLSPDHCLDIDLNFICLSGLGLFILYLFYVMVLTLYSSPTEKNNDT  
QKHQGRARRRKRSVTFKDRKSLQKEAEEERKLHSLKSFSGPPVSCSPLGQHHDITLFRRL  
LCPDPVCRVCNRATADIQRLLSWESLKDAAPSVSPASSASGAESSFTLASTPSATTPE  
LILSSRPKPSPPPLILSPDLITTLADLFSPSPLRDPLPPQPVSPLDKFPIDHSPPQQL  
PFLLPPHHIERVEPSLQPEASLSLNTIFSFGSTLCQDISQAVNRDSCARHHGPPTPSA  
LPPEDCTVTQSKSNLTVLKTTFPEMLSLGGSGGSSTSAPTTKIDHSCPASSEFSWWQPHA  
KDSFSSNFVPSDFMEELLTLHSSEASLGHSVANIIPVNIISFLSHDIPALLERQVKRRG  
DFLMWKENGKKPGSFPQQLRPNYQLNSSRNMLTSTAVKHDLAESFPFWASKGKLEWQHIH  
QQPPYSKCFEDHLEQKYVQLFWGLPSLHSESLHPTVTVQVHGRSSMFVFFNGITNTSMSH  
SPVLPQQPLFLPSTQPLPLPQTLPRGQSLHLTQVKSLAQPSFPALPPSPLFLIRVCG  
VCFHRPQNEARSLMPSEINHLEWNVLQKVQESVWGLPSVVQKSQEDFCPPAPNPVLRKS  
FKVHVPVISIIPGDFPLSSEVRKKLEQHIRRRLIQRWGLPRRIHESLSLLRPQNKISELS

VSESIHGPLNISLVEGQRCNVLKKSASSFPRSFHERSSNMLSMENVGNYQGCSQETAPKN  
HLLHDPETSSEEDLRNSERDLGTHMMHLSGNDSGVRLGQKQLENALTVHLSKKFEEINE  
GRMPGTVHSSWSHVKQTICLPEKSHSQIKHRNLAALVSEDHGVDTSQEMSFLSSNKQKML  
EAHIKSFHMKPILNLSI

>sp|Q6ZUB1|S31E1\_HUMAN Spermatogenesis-associated protein 31E1 OS=Homo sapiens  
GN=SPATA31E1 PE=2 SV=2

MGNLVIPLGKGRAGRVESGQRIPPPAPRPSVECTGDDIALQMEKMLFPLKSPSATWLSPS  
STPWMMDFILTSVCGLVLLFLLLLVHSDPPSPPPGRKRSSREPQRERSGRSRSRKISAL  
KACRILLRELEETRDNLNLLSHLRKLAGEGSSHLPLGGDPLGDVCKPVPAAKAHQPHGKC  
MQDPSPASLSPPAPPAPLASTLSPGPMTFSEPFPGHSTLSASGPPEPLLPLKCPATQPHV  
VFPPSPQPHGPLASSPPPDSSLAGLQCGSTTCPVPQSSPLHNQVLPPTTRVISGLGCSS  
DPIWDLWCWREAATTWGLSTYSHGKSQPRHLPDHTSEASFWDPTPKHMEVGGCTFIHPD  
VQKLETLIAKRALMKMWQEKERKRADHPHMTSLGKEWDITTLNPFWNVSTQPQQLPRPQ  
QVSDATTVGNHLQKRSQFLWDLPSLNSESLATTVWVSRNPSSQNAHSVPLDKASTSLPG  
EPEVEASSQLSQAPPQPHMAQPQHFTPAWPQSQPPLAEIQTAHLSPVPVSLGCSSPP  
QIRCGASYPTSQERTQSVIPTGKEYLEWPLKKRPKWKRVLPSLLKKSQAVLSQPTAHL  
QERPASWSPKSAPILPGVVTSPELPEHWWQGRNAIHQEQSCGPPSRLQASGDLLQPDGEF  
PGRPQSQAEDTQALLPSQPSDFAGKGRKDVQKTGFRSSGRFSDKGCLGSKLGPDPSPDQ  
GSGRTSVKALDEDKEAEGDLRRSWKYQSVSSTPRDPDKEHLENKLQIHLARKVGEIKEGW  
IPMPVRRSWLMAKCAVPKSDTHRKPGKLASWRGGKAHVNTSQELSFLHPCTQQILEVHLV  
RFCVRHSWGTDLQSLPINVWSGEAQAPPFPQSTFTPWASWVRVESVPKVIIFLGKRPQ  
NGPGDNRTTSKSVPTVSGPLAAPPPEQEGVQRPPRGSQSADTHGRSEAFPTGHKGRGCSQ  
PPTCSLVGRTWQSRTVLESQPKPRLEGSMGSEMAGNEAWLESESMSPGDPCSSRALQVL  
SIGSQWARAEDALQALKVGEKPPTWEVTLGASVRASSGSVQEDLRSTGALGTTGNPSASS  
VCVAQDPEQLHLKAQVVSEIALIVQVDSEEQLPGRAPGILLQDGATGLCLPGRHMDMLTA  
ADRLPTQAPLSTSQSVSGKNMTASQGPCALLWKGGDSPGQQEPGSPKAKAPQKSQKTLGC  
ADKGEAHRRPRTGEQGHRSKGPRTSEASGRSHPAQAREIGDKQERKYNQLQLEKGQTPPE  
SHFQRKISHHPQGLHPRKGGTRWEDVLQKGKPGADAFQSWGSGPPRQFMDCMADKAWTIS  
RVVGQILVDKLGQWGRGPSEVNRHKGFRAQENVSCCHRGHCHQERSREMRALACSPK  
ATPKGHHCPVKNRGIIRDSSWAPPPPREPVSPAGPHHHRPRMASTSGGPHPLQLQELMSAQ  
RCLAS

>sp|Q9Y2D2|S35A3\_HUMAN UDP-N-acetylglucosamine transporter OS=Homo sapiens GN=SLC35A3  
PE=1 SV=1

MFANLKYVSLGILVFQTTSLVLTMRYSRTLKEEGPRYLSSTAVVVAELLKIMACILLVYK  
DSKCSLRALNRVLHDEILNKPMETLKLAIPSGIYTLQNNLLYVALSNLDAATYQVTYQLK  
ILTALFSVSMLSKKLGvyQWLSVLMTGVAfVQWPSDSQLDSKELSAGSQFVGLMAVL  
TACFSSGFAGVYFEKILKETKQSVWIRNIQLGFFGSI FGLMGVYIYDGLVSKNGFFQGY  
NRLTWIVVVLQALGGLVIAAVIKYADNILKGFATSLSIILSTLISYFWLQDFVPTSVFFL  
GAILVITATFLYGYDPKPAGNPTKA

>sp|Q8TB61|S35B2\_HUMAN Adenosine 3'-phospho 5'-phosphosulfate transporter 1 OS=Homo  
sapiens GN=SLC35B2 PE=1 SV=1

MDARWWAVVVLAAPPSLGAGGETPEAPPESWTQLWFFRFVVNAAGYASFMPGYLLVQYF  
RRKNYLETGRGLCFPLVKACVFGNEPKASDEVPLAPRTEAAETTPMWQALKLLFCATGLQ  
VSYLTWGVQLQERVMTRSYGATATSPGERFTDSQFLVLMNRVLALIVAGLSCVLCKQPRHG



APMYRYSFASLSNVLSWCQEALKFVSFPTQVLAKASKVIPVMLMGKLVSRRSYEHWEY  
LTATLISIGVSMFLLSSGPEPRSSPATTLSGLILLAGYIAFDSFTSNWQDALFAYKMSSV  
QMMFGVNNFSCFLT VGSLLQEGALLEGRFMGRHSEFAAHALLLSICSACGQLFIFYTIG  
QFGAAVFTIIMTLRQAFAILLSCLLYGHTVTTVVGGLGVAVVFAALLLRVYARGRLKQRGK  
KAVPVESPVQKV

>sp|Q8IXU6|S35F2\_HUMAN Solute carrier family 35 member F2 OS=Homo sapiens GN=SLC35F2 PE=1  
SV=1

MEADSPAGPGAPEPLAEGAAAEFSSLLRRIKGLFTWNILKTIALGQMLSLCICGTAITS  
QYLAERYKVNTPMLQSFINYCLLFLIYTVMLAFRSGSDNLLVILKRKWWKYILLGLADVE  
ANYVIVRAYQYTTLSVQLDCFGIPVLMALSWFILHARYRVIHFIAVAVCLLGVTMVG  
ADILAGREDNSGSDVLIGDILVLLGASLYAISNVCEEYIVKKLSRQEFLGMVGLFGTIIS  
GIQLLIVEYKDIA SIHWDWKIALLFVAFALCMFCLYSFMPLVIKVT SATSVNLGILTADL  
YSLFVGLFLFGYKFSGLYILSFTVIMVGFILYCSTPTRTAEP AESSVPPVTSIGIDNLGL  
KLEENLQETHSAVL

>sp|A4IF30|S35F4\_HUMAN Solute carrier family 35 member F4 OS=Homo sapiens GN=SLC35F4 PE=2  
SV=2

MDELLLDLFHKLTSGRQLAAGNLCGISHKEQEVWKP GHNILVKMRKEDKSLVWL IHSTL  
ARYTQVTNFLTGRSSVTRCKPGANCPSHSGISRQLSPLSVTEDSSAPILELQNGSSG  
VCGHRVERQNRSADDGTQTHSENSSQENRIKARCLSCTSMVLKGIWGLLIILSVSSSWVG  
TTQIVKITYKNFYCFFMTWFTSNWNIMFFPVYYSGHLATAQEKQSPMKKFRECSRIFGE  
DGLTLKFLKRTAPFSILWTLTNYLYLLALKKL TATDVSALFCCNKAFVFLLSWIVLKDR  
FMGVRIVAAIMAITGIVMMAYADNFHADSIIGVAFVGSASTSALYKVLFKMFLGSANFG  
EAAHFVSTLGFNLFISFTPVILYFTKVEHWSSFAALPWGCLCGMAGLWLA FNILVNVG  
VVLTPILISIGTVLSVPGNAAVDLLKQEVIFNVVRLAATIIICIGFLMLLPEEWDEIT  
LRFINSLKEKKSEEHVDDVTDPSIHLRGRGRANGTVSIPLA

>sp|Q2M3R5|S35G1\_HUMAN Solute carrier family 35 member G1 OS=Homo sapiens GN=SLC35G1 PE=1  
SV=1

MRPQDSTGVAELQEPLPLTDDAPPGATEEPAAAAEAAGAPDRGRCWLCLSSPCCSRTEPE  
AKKKAPCPGLGLFYTLTSAFLFSVGSFLVKKVQDVHAVEISAFCRVFQMLVVIPCLIIYRK  
TGFIGPKGQRIFLILRGVLGSTAMMLIYYAYQTMSLADATVITFSSPVFTSIFAWICLKE  
KYSPWDALFTVFTITGVILIVRPPFLFGSDTSGMEESYSGHLKGTFAAIGSAVFAASTLV  
ILRKMGSVDYFLSIWYVVVLGLVESVIIILSVLGEWSLPYCGLDRLFLIFIGLFGLGQI  
FITKALQIEKAGPVAIMKTMDVVFAFIFQIIFNNVPTWWTVGALCVVASNVGA AIRKW  
YQSSK

>sp|P0C7Q6|S35G6\_HUMAN Solute carrier family 35 member G6 OS=Homo sapiens GN=SLC35G6 PE=2  
SV=1

MAGSHPYLNPPDSTHPSPPSAPPSLRWHQCCQPSDATNGLLVALLGGGLPAGFVGPLSHM  
AYQASNLPSELLICRCLFHLPIALLKLGRDPLLGPDIRGRAYFYALLNVLSIGCAYS  
AVQVPAGNAATVRKGSSTVCSAVLTLCLESQGLSGYDWCGLLGSILGLIIIVGPGLWTL  
QEGITGVYTALGYGQAFVGGALSLGLLVYRSLHFPSCLPVAFSLGLVGLLGSVPGLFV  
LQPPVLPSDLPSWSCVGAVGILALVSFTCVSYAVTKAHPALVCAVLHSEVVVALILQYYM  
LHETVAPSDIVGAGVVLGSAIITAWNLSCEREGKVEE

>sp|Q7Z2H8|S36A1\_HUMAN Proton-coupled amino acid transporter 1 OS=Homo sapiens GN=SLC36A1  
PE=1 SV=1

MSTQRLRNEDYHDYSSTDVSPPEESPSEGLNNLSSPGSYQRFQSNSTTWFTLIHLLKGN  
IGTGLLGLPLAVKNAGIVMGPISELLIIGIVAVHCMGILVKCAHHFCRRLNKSFVDYGDTV  
MYGLESPCSWLRNHAHWGRRVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTNNC  
HNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANITMLVSLVMIYQFIV  
QRIPDPShLPLVAPWKTYPLFFGTAFSFEIGMVLPLENKMKDPRKFPLILYLGMVIVT  
ILYISLGCLGYLQFGANIQGSITLNLPCWLYQSVKLLYSIGIFFTYALQFYVPAEIIIP  
FFVSRAPHECELVDLDFVRTLVLCLTCILAILIPRLDLVISLVGSVSSSALALIIPPLLE  
VTTYFSEGMSPLTIFKDALISILGFVGFVVGTYEALYELIQPSNAPIFINSTCAFI

>sp|Q495M3|S36A2\_HUMAN Proton-coupled amino acid transporter 2 OS=Homo sapiens GN=SLC36A2  
PE=1 SV=1

MSVTKSTEGPQGAVAIKLDLMSPPEsAKKLENKDSTFLDESPSESAGLKKTKGITVFQAL  
IHLVKGNGMTGILGLPLAVKNAGILMGPLSLLVMGFIACHCMHILVKCAQRFCRRLNKPf  
MDYGDTV MHGLEANPNAWLQNHAWGRHIVSFFLIITQLGFCCVYIVFLADNLKQVVEAV  
NSTNNCYSNETVILTPTMDSRLYMLSFLPFLVLLVLIRNLRILTFsMLANISMLVSLV  
IIIQYITQEIPDPSRLPLVASWKTYPLFFGTAFSFEsIGVVLPLENKMKNARHFPAILS  
LGMSIVTSLYIGMAALGYLRFGDDIKASISLNLPCWLYQSVKLLYIAGILCTYALQFYV  
PAEIIIPFAISRVSTRWALPLDLSIRLVMVCLTCLLAILIPRLDLVISLVGSVSGTALAL  
IIPPLLEVTTYFSEGMSPLTIFKDALISILGFVGFVVGTYQALDELLKSEDSHPFSNSTT  
FVR

>sp|Q9NUM3|S39A9\_HUMAN Zinc transporter ZIP9 OS=Homo sapiens GN=SLC39A9 PE=2 SV=2

MDDFISISLLSLAMLVGCYVAGIPLAVNFSEERLKLVTVLGAGLLCGTALAVIVPEGVH  
ALYEDILEGKHHQASETHNVIASDKAAEKSVVHEHEHSHDHTQLHAYIGVSLVLGFVFMl  
LVDQIGNSHVHSTDDPEAARSSNSKITTTLGLVVHAAADGVALGAAASTSQTsVQLIVFV  
AIMLHKAPAAFGLVsFLMHAGLERNRIRKHLLVFALAAPVMSMVTYLGLSKSSKEALSEV  
NATGVAMLFsAGTFLYVATVHVLPVGGIGHSHKPDATGGRGLSRLEVAALVLGCLIPLI  
LSVGHQH

>sp|Q9ULF5|S39AA\_HUMAN Zinc transporter ZIP10 OS=Homo sapiens GN=SLC39A10 PE=1 SV=2

MKVHMHTKFCLICLLTFIFHHCNHCEEHDHGPEALHRQHRGMTELEPSKFSKQAAENEK  
KYYIEKLFFERYGENGRLSFFGLEKLLTNLGLGERKVVEINHEDLGHdHVSHLdILAVQEG  
KHfHSHNHQSHNHLNSENQTVTSVSTKRNHKCDPEKETVEVSVKSDDKHMHdHNHRLRH  
HHRLHHHLdHNNTHHFHNDsITPSERGEPSNEPSTETNKTQEQSDVKLPKGKRKKKGRKS  
NENSEVITPGFPPNHdQGEQYEHNRVHKPDRVHNPGHSHVHLPERNGHDPGRGHQDLDPD  
NEGELRHTRKREAPHVKNNAIISLRKDLNEDdHHHECLNVTQLLKYYGHGANSPISTDLF  
TYLCPALLYQIDSRLCIEHFDKLLVEDINKDKNLVPEDeANIGASAWICGIISITVISLL  
SLLGVILVPIINQGCFKFLLTFLVALAVGTMSGDALLHLLPHSQQGGHDHSHQHAHGhGHS  
HGHEsNKFLEEYDAVLKGLVALGGIYLLFIIEHCIRMFKHYKQQRGKQKWFMKQNTeEST  
IGRKLSDHKLNNTPDSDWLQLKPLAGTDDSVVSEDRLNETELTDLEGQQESPPKNYLCIE  
EEKIIDHSHSDGLHTIHEHDLHAAAHNHGEnKTVLRKHNHQWHHKHSHSHGPGCHSGSD  
LKETGIANIAWMVIMGDGIHNFSdGLAIGAAsAGLTGGISTsIAVFCHELPHELGDFAV  
LLKAGMTVKQAIvYNLLSAMMAYIGMLIGTAVGQYANNITLWIFAVTAGMFLYVALVDML  
PEMLHGdGDNEEHGFCPVGQFILQNLGLLFGFAIMLVIALYEDKIVFDIQF

>sp|Q15043|S39AE\_HUMAN Zinc transporter ZIP14 OS=Homo sapiens GN=SLC39A14 PE=1 SV=3

MKLLLLHPAFQsCLLLTLLGLWRTTPEAHASSLGAPAIAsAAsFLQDLIhRYGEGDSLTLQ  
QLKALLNHLDVGvGRGNVTQHvQGHrNLSTCFSSGDLTaHNFSEQSRIGSSSELQEFcPT

ILQQLDSRACTSENQENEENEQTEEGRPSSAVEVWGYGLLCVTVISLCSLLGASVVPFMKK  
TFYKRLLLYFIALAIGTLYSNALFQLIPEAFGNPLEDYVYSKSAVVFGGFYLFFFTEKI  
LKILLKQKNEHHHGHSHYASELSPSKKDQEEGVMEKLQNGDLDMIPQHCSSELDGKAPM  
VDEKVIIVGSLSVQDLQASQACWYLGKGVRYSDIGTLAWMITLSDGLHNFIDGLAIGASFT  
VSVFQGISVAILCEEFPHELGFVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAG  
SHFSANWIFALAGGMFLYISLADMFPFEMNEVCQEDERKGSILIPFIIQNLGLLTGFTIMV  
VLTMYSGQIQIG

>sp|Q8TE82|S3TC1\_HUMAN SH3 domain and tetratricopeptide repeat-containing protein 1  
OS=Homo sapiens GN=SH3TC1 PE=1 SV=3

MENLPAVTTEPTPMGRGPVGPSSGGSTRDQVRTVVMRPSVSWEKAGPEEAKAPVRGDEA  
PPARVAGPAAGTPPCQMGVYPTDLTLQLLAVRRKSRLRDPGLQQTLRGQLRLENDREM  
ARVLGELSARLLSIHSDQDRIVVTFKTFEEIWKFSYHALGFTHHCLANLLMDQAFWLL  
PSEEEETAIQVHVDENALRLTHESLLIQEGPFFVLCPDHHVRVMTGPRDAGNGPQALRQA  
SGAPQGEAAPETDSSPPSPSVSSEEVAVAAAPPELIPFHQWALRIPQDPIDAMGGPVMP  
GNPLMAVGLASALADFQGSPEEMTFRGGDLIEILGAQVPSLPWCVRHAASGRVGFVRS  
SLISMQGPVSELESAIFLNEEKSFFSEGCSEEDARQLLRMSGTDVCSVYSLDSVEEA  
ETEQPQEKEIPPPCLSLEPQETLQKVKNVLEQCKTCPGCPQEPASWGLCAASSDVSLQDP  
EEPSFCLEAEDDWEDPEALSSLLFLNAPGYKASFRGLYDVALPWLSSVFRSFSDEEELT  
GRLAQARGAAKKAGLLMALARLCFLLGRLCSRRLKLSQARVYFEEALGALEGSFGDLFLV  
VAVYANLASIYRKQKNREKCAQVVPKAMALLGTPDHICSTEAESELLQALRRVGGQS  
LQAEARACFLARHHVHLKQPEEALPFLERLLLLHRDSGAPEAAWLSDCYLLADIIYSRK  
CLPHLVLSVVKVASLRTRGSLAGSLRSVNLVLQNAQPHSLPAQTSHYLRQALASLTPTGT  
GQALRGPLYTSLAQLYSHHGCHGPAITFMTQAVEASAIAGVRAIVDHLVALAWLHVLHGQ  
SPVALDILQSVRDVAVASEDQEGVIANMVAVALKRTGRTRQAAESYYRALRVARDLGQQR  
NQAVGLANFGALCLHAGASRLAQHYLLEAVRLFSRLPLGECGRDFTHVLLQLGHLCTRQG  
PAQQGKGYYEWALLVAVEMGHVESQLRAVQRLCHFYSAVMPSEAQCVIYHELQLSLACKV  
ADKVLEGQLLETISQLYLSLGTERTAYKSALDYTKRSLGIFIDLQKKEKEAHAWLQAGKIY  
YILRQSELVDLYIQVAQNVALYTGPNLGLELFEAAGDIFFDGAWEREKAVSFYRDRALP  
LAVTTGNRKAELRLCNKLVALLATLEEPQEGLEFAHMALALSITLGDRLNERVAYHRLAA  
LQHRLGHGELAHEHYLKALSLCNSPLEFDEETLYYVKVYLVLDIIFYDLKDPFDAAGYY  
QLALAAAVDLGNKKAQLKIYTRLATIIYHNFLLDREKSLFFYQKARTFATELNVRVNLPP  
LPLCGWAPWLAPSHPR

>sp|Q9NP59|S40A1\_HUMAN Solute carrier family 40 member 1 OS=Homo sapiens GN=SLC40A1 PE=1  
SV=1

MTRAGDHNRRQGCCSLADYLTSAKFLLYLGHSLSTWGDWMWHFAVSVFLVELYGNLLLL  
TAVYGLVVAGSVLVGAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHEL  
LTMYHGWVLTSCYILIIITIANIANLASTATAITIQRDWIVVAGEDRSKLANMNATIRRI  
DQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWKVYQKTPALAVKAGLK  
EEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGWV  
SYYNQPVFLAGMGLAFLYMTVLGFDCITTYAYTQGLSGSILSILMGASAITGIMGTVAF  
TWLRRKCGLVRTGLISGLAQLSCLILCVISVFMGPSPLDLSVSPFEDIRSRFIQGESITP  
TKIPEITTEIYMSNGSNSANIVPETSPEVPIISVSLLFAGVIAARIGLWSFDLTVTQLL  
QENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLSVSFVAMGHIMYFR  
FAQNTLGNKLFACGPDAKEVRKENQANTSVV

>sp|Q9Y2W3|S45A1\_HUMAN Proton-associated sugar transporter A OS=Homo sapiens GN=SLC45A1 PE=2 SV=4

MIPAASSTPPGDALFPSVAPQDFWRSQVTGYSGSVTRHLSHRANNFKRHPKRRKCIRPSP  
PPPNTPCPLLELVDFGLHPQRSFRELLFNGCILFGIEFSYAMETAYVTPVLLQMGLPDQ  
LYSLVWFISPIILGFLQPLLGAWSDRCTSRFGRRRPFILVLAIGALLGLSLLNGRDIGI  
ALADVTGNHKWGLLLTVCGVLMDFSADSADNPSHAYMMDVCSPADQDRGLNIHALLAGL  
GGGFGYVVGGIHWDTGFGRALGGQLRVIYLFATAVTLSTTVLTLVSIPERPLRPPSEKR  
AAMKSPSLPLPPSPVLP EEGPGDSLPSHTATNFSSPISPPSPLTPKYGSFISRDSSLTG  
ISEFASSFGTANIDSVLIDCFTGGHDSYLAIPGSVPRPPIVSFPRAPDGFYRQDRGLLE  
GREGALTSGCDGILRVGSLDTSKPRSSGILKRPQTALIPDAAGGGGPETSRRRNVTFSSQ  
QVANILLNGVKYESELTGSSEAEQPLSVGRLCSTICNMPKALRTLVCNHFLGWLSFEGM  
LLFYTDFMGEVVFQGDPKAPHTSEAYQKYN SGVTMGCWGMCIYAFSAAFYSAILEKLEEF  
LSVRTLYFIAYLAFGLGTGLATLSRNLYVVLSCITYGILFSTLCTLPYSLLCDYYQSKK  
FAGSSADGTRRGMGVDISLLSCQYFLAQILVSLVLGPLTSAVGSANGVMYFSSLSVFLGC  
LYSSLFVIYEIPPSDAADEHRPLLLNV

>sp|Q5BKX6|S45A4\_HUMAN Solute carrier family 45 member 4 OS=Homo sapiens GN=SLC45A4 PE=1 SV=2

MKMAPQNADPESMQVQELSVPLPDPQKAGGAEAEENCETISEGSIDRIPMRLWVMHGAVMF  
GREFCYAMETALVTPILLQIGLPEQYYSLTWFLSPILGLIFTPLIGSASDRCTLSWGRRR  
PFILALCVGVLFGLVALFNGSAIGLALGDVPNRQPIGIVLTVLGVVLDIFSADATEGPIR  
AYLLDVVDSEEQDMALNIHAFSAGLGGAIGYVLGGLDWTQTFLGSWFRTQNQVLFFFAAI  
IFTVSVALHLFSIDEEQYSPQQERSAE EPGALDGGEPHGVPAFPDEVQSEHELALDYPDV  
DIMRSKSDSALHVPDALTDLPELLFLHDIEPSIFHDASYPATPRSTSQELAKTKLPRLA  
TFLKEAAKEDETLLDNHLNEAKVPNGSGSPTKDALGGYTRVDTKPSATSSSMRRRRHAFR  
RQASSTFSYYGKLGSHCYRYRRANAVVL IKPSRMSDLYDMQKRQRQHRHRNQSGATTSS  
GDTESEEGEGETTVRLLWLSMLKMPRELMRLCLCHLLTWFSVIAEAVFYTDFMGQVIFEG  
DPKAPSNSTAWQAYNAGVKMGCVGLVIYAATGAICSALLQKYLDNYDLSVRVIYVLGTLG  
FSVGTAVMAMFPNVYVAMVTISTMGIVSMSISYCPYALLGQYHDIKQYIHHSPGNSKRGF  
GIDCAILSCQVYISQILVASALGGVVDVAVGTVRVIPMASVGSFLGFLTATFLVIYPNVS  
EEAKEEQKGLSSPLAGEGRAGGNSEKPTVLKLTRKEGLQGPVETESVV

>sp|Q7Z3Q1|S46A3\_HUMAN Solute carrier family 46 member 3 OS=Homo sapiens GN=SLC46A3 PE=2 SV=1

MKILFVEPAIFLSAFAMTLTGPLTTQYVYRRIWEETGNYTFSSDSNISECEKNKSSPIFA  
FQEEVQKKVSRFNLQMDISGLIPGLVSTFILLSISDHYGRKFPMILSSVGALATSVWLCL  
LCYFAFPFQLLIASFTIGAFCGNYYTFWGACFAYIVDQCKEKKKTIRIAIIDFLLGLVT  
GLTGLSSGYFIRELGFWSFLIIAVSLAVNLIYILFFLGDPVKECSSQNVMTMSCSEGFKN  
LFYRTYMLFKNASGKRRFLLCLLFTVITYFFVIGIAPIFILYELDSPLCWNEVFIGYG  
SALGSASFLTSFLGIWLFSYCMEDIHMAFIGIFTMTGMAMTAFASSTLMMFLARVPFLF  
TIVPFSVLRSM LSKVVRSTEQGTLFACIAFLET LGGVTA VSTFNGIYSATVAWYPGF TFL  
LSAGLLLLPAISLCVVKCTSWNEGSYELLIQEESSEDASDR

>sp|Q96FL8|S47A1\_HUMAN Multidrug and toxin extrusion protein 1 OS=Homo sapiens GN=SLC47A1 PE=1 SV=1

MEAPEEPAPVRGGPEATLEVRGSRCLRLSAFREELRALLVLAGPAFLVQLMVFLISFISS  
VFCGHLGKLELDAVTLAIAVINVTGVS VGFGLSSACDTLISQTYGSQNLKHVGVILQRSA

LVLLCCFPCWALFLNTQHILLFRQDPDVSRLTQTYVTIFIPALPATFLYMLQVKYLLN  
QGIVLPQIVTGVAANLVNALANYLFLHLGLVIGSALANLISQYTLALLFLYILGKKL  
HQATWGGWSLECLQDASFLRLAIPSMMLCMEWWAYEVGSFLSGILGMVELGAQSIVYE  
LAIIVYMVPAGFSVAASVRVGNALGAGDMEQARKSSTVSLITVLFVAVFSVLLSCKDH  
VGYIFTTDRDIINLVAQVVPITYAVSHLFEALACTSGGVLRGSGNQKVGAIVNTIGYYVVG  
LPIGIALMFATTLGVMGLWSGIIICTVFQAVCFLGFIIQLNWKKACQQAQVHANLKVNNV  
PRSGNSALPQDPLHPGCPENLEGILTNDVGKTGEPQSDQQMRQEEPLPEHPQDGAKLSRK  
QLVLRRLGLLLGVFLILLVGILVRFYVRIQ

>sp|Q8NBS3|S4A11\_HUMAN Sodium bicarbonate transporter-like protein 11 OS=Homo sapiens  
GN=SLC4A11 PE=1 SV=2

MSQVGGRGDRCTQEVQGLVHGAGDLSASLAENSPTMSQNGYFEDSSYYKCDTDDTFEARE  
EILGDEAFDTANSSIVSGESIRFFVNVNLEMQATNTENEATSGGCVLLHTSRKYCLKNF  
KEEIRAHRLDGLAQASIVLNETATSLDNVLRMTLRRFARDPDNNEPNCNLDLLMAMLF  
TDAGAPMRGKVHLLSDTIQGVATVTGVRYQQSWLCIICTMKALQKRHVCISRLVRPQNW  
GENSCEVRFVILVLAPPKMKSTKAMEVARTFATMFSDIAFRQKLETRTEEFKEALVH  
QRQLTMVSHGPVAPRTKERSTVSLPAHRHPEPPKCKDFVPFGKGIREDIARRFPLYPLD  
FTDGIIGKNKAVGKYITTTFLYFACLLPTIAFGSLNDENTDGAIDVQKTIAGQSIGLL  
YALFSGQPLVILLTTAPLALYIQVIRVICDDYDLDFNSFYAWTGLWNSFFLALYAFFNLS  
LVMSLFKRSTEEIIALFISITFVLDAVKGTVKIFWKYYYGHYLDYHTKRTSSLVLSGL  
GASLNASLHTALNASFLASPTELPSATHSGQATAVLSLLIMLGTWLGYTLYQFKKSPYL  
HPCVREILSDCALPIAVLAFSLISSHGFREIEMSKFRYNPSESPFAMAQIQSLSLRAVSG  
AMGLGFLLSMLFFIEQNLVAALVNAPENRLVKGTAYHWDLLLLAIINTGLSLFGLPWIHA  
AYPHSPLHVRALALVEERVENGHIYDTIVNVKETRLTSLGASVLVGLSLLLLPVPLQWIP  
KPVLYGLFLYIALTSLDGNQLVQRVALLKEQTAYPPTHYIRRVPQRKIHIFTGLQVLQL  
LLLCAFGMSSLPYMKMIFPLIMIAMIPIRYILLPRIIEAKYLDVMDAHRP

>sp|Q9BY07|S4A5\_HUMAN Electrogenic sodium bicarbonate cotransporter 4 OS=Homo sapiens  
GN=SLC4A5 PE=2 SV=2

MKVKEEKAGVGKLDHTNHRRRFPDQKECPPIHIGLPVPTYPQRKTDQKGHLSGLQKVHWG  
LRPDQPQQELTGP GSGASSQDSSMDLISRTRSPAAEQLDILGEEDEAPNPTLFTEMDTL  
QHDGDQMEWKESARWIKFEEKVEEGGERWSKPHVSTLSLHSLFELRTCLQTGTVLLDLS  
GSLPQIIDDVIEKQIEDGLLRPELRERSYVLLRRHRHQTKPIHRSLADIGKSVSTNR  
SPARSPGAGPSLHSTEDLRMRQSANYGRLCHAQSRSMNDISLTPNTDQRKNKFMKKIPK  
DSEASNVLVGEVDFLDQPFIAFVRLIQSAMLGGVTEVPVPTRFLFILLGPSGRAKSYNEI  
GRAIATLMVDDLFSVDVAYKARNREDLIAGIDEFLDEVIVLPPGEWDPNIRIEPPKVP  
SA DKRKS VFS LAELGQMNGSVGGGGGAPGGGNGGGGGGGGAGSGGAGGTSSGDDGEMPA  
MHEIGEELIWTGRFFGGLCLDIKRKLWFPSDFYDGFHIQSISAILFIYLCITNAITFG  
GLLG DATDNYQGVMSFLGTAMAGSLFCLFSGQPLIILSSTGPILIFEKLLDFDSKGNGL  
DYMEFRLWIGLSAVQCLILVATDASFIIKYITRFTEEGFSTLISFIFIYDAIKKMIGAF  
KYYPINMDFKPNFITTYKCECVAPDTVNTTVFNASAPLAPDTNASLYNLLNL TALDWSLL  
SKKECLSYGGRLLGNSCKFIPDLALMSFILFFGTYSMTLTLKKFKFSRYFPTKVRALVAD  
FSIVFSILMFCGIDACFLET PKLHVPSVIKPTRPD RGW FVAPFGKNPWWVYPASILPAL  
LV TILIFMDQQITAVIVNRKENKLKKAAGYHLDLFWVGILMALCSFMGLPWYVAATVISI  
AHIDSLKMETETSAPGEQPQLGLVREQRVTGIIIVFILTGISVFLAPILKCIPLPVLYGVF  
LYMGVASLNGIQMG TGGSEFKIQKKT PFWERCKLFLMPAKHQPDHAFLRHVPLRRIHLF

TLVQILCLAVLWILKSTVAAIIFPVMILGLIIVRRLDFIFSQHDLAWIDNILPEKEKKE  
TDKKRKRKKGAHEDCDEEPQFPSPSVIKIPMESVQSDPQNGIHCIARKRSSWSYSL

>sp|Q9Y6M7|S4A7\_HUMAN Sodium bicarbonate cotransporter 3 OS=Homo sapiens GN=SLC4A7 PE=1  
SV=2

MERFRLEKKLPGPDEEAVVDLGKTSSTVNTKFEKEEESHRAVYIGVHPFSKESRRRHR  
HRGHKHHRRRKDKESDKEDGRESPTSQVRVQFILGTEDDEEHIPHDLFTEMDELC  
YRDGEEYEWKETARWLKFEEDVEDGGDRWSKPYVATLSLHSLFELRSCILNGTVMLDMRA  
STLDEIADMVLDNMIASGQLDESIRENVREALLKRHHHQNEKRFTSRIPLVRSFADIGKK  
HSDPHLLERNGEGLSASRHSRLTGLSASNLSLRGESPLSLLGHLLPSSRAGTPAGSRCT  
TPVPTPQNSPPSSPSISRLTSRSSQESQRQAPELLVSPASDDIPTVVIHPPEEDLEAALK  
GEEQKNEENVDLTPGILASQPASGNLDNSKSGEIKNGSGGSRENSTVDFSKVDMNFM  
KIPTGAEASNVLGVEVDFLERPIIAFVRLAPAVLLTGLTEVPVPTRFLLLPAGKAPQ  
YHEIGRSIATLMTDEIFHDVAYKAKDRNDLLSGIDEFLDQVTVLPPEWDPSIRIEPPKS  
VPSQEKKRIPVFHNGSTPTLGETPKEAAHHAGPELQRTGRLFGGLILDIKRKAPFFLSDF  
KDALSILQCLASILFLYCACMSPVITFGGLLGEATEGRISAIESLFGASLTGIAYSIFAGQ  
PLTILGSTGPVLVFEKILYKFCRDYQLSYLSLRTSIGLWTSFLCIVLVATDASSLCYIT  
RFTEEAFAALICIFIYEALEKLFDLGETYAFNMHNNLDKLTYSVCVCTEPPNPSNETLA  
QWKKDNITAHNISWRNLTVSECKLRGVFLGSACGHHGPYIPDVLFWCVILFFTTFLLSS  
FLKQFKTKRYFPTKVRSTISDFAVFLTIVIMVTIDYLVGVSPKLVPEKFEPTHPERGW  
IISPLGDNPWWTLLIAAIPALLCTILIFMDQQITAVIINRKEHKLKKGAGYHLDLLMVG  
MLGVCSVMGLPWFAATVLSISHVNSLKVESECSAPGEQPKFLGIREQRTGLMIFILMG  
LSVFMSTVLKFIPMPVLYGVFLYMGVSSLKGIQLFDRIKLFGMPAKHQPDLIYLRVPLW  
KVHIFTVIQLTCLVLLWVIKVSAAAVFPMMVLALVFVRKLMDLCFTKRELSWLDLMPE  
SKKKKEDDKKKKEKEEAERMLQDDDDTVHLPFEGGSLLQIPVKALKYSPDKPVSVKISFE  
DEPRKKYVDAETSL

>sp|P31213|S5A2\_HUMAN 3-oxo-5-alpha-steroid 4-dehydrogenase 2 OS=Homo sapiens GN=SRD5A2  
PE=1 SV=1

MQVQCQSPVLGASATLVALGALALYVAKPSGYGKHTESLKPAATRLPARAAWFLQELPS  
FAVPAGILARQPLSLFGPPGTVLLGLFCVHYFHRTFVYSLLNRGRYPAILILRGTAFTCT  
GNGVLQGYLLIYCAEYPDGWYTDIRFSLGVFLFILGMGINIHSDYILRQLRKPGEISYRI  
PQGGLFTYVSGANFLGEIIEWIGYALATWSLPALAFAFFSLCFLGLRAFHHRFYLMFE  
DYPKSRKALIPFIF

>sp|P61619|S61A1\_HUMAN Protein transport protein Sec61 subunit alpha isoform 1 OS=Homo  
sapiens GN=SEC61A1 PE=1 SV=2

MAIKFLEVIKPFVCILPEIQKPERKIQFKEKVLWTAITLFIPLVCCQIPLFGIMSSDSAD  
PFYWMRVILASNRGTMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLF  
MIITIGQSIVYVMTGMYGDPSEMGAGICLLITIQLFVAGLIVLLDELQKGYGLSGGIS  
LFIATNICETIVWKAFTPTVNTGRGMEFEGAIIFHLLATRTDKVRALREAFYRQNL  
NLMNLIATIFVFAVVIYFQGRVDLPKISARYRGQYNTYPIKLFYTSNIPILQSALVSN  
LYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYLSPPEFSGSVLEDPVH  
AVVYIVFMLGSCAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYP  
AAFGGLCIGALSVLADFLGAIGSGTGILLAVTIIYQYFEIFVKEQSEVGSMGALLF

>sp|Q9NSD5|S6A13\_HUMAN Sodium- and chloride-dependent GABA transporter 2 OS=Homo sapiens  
GN=SLC6A13 PE=1 SV=3

MDSRVSGTTSNGETKPVYPVMEKKEEDGTLERGHWNKMEFVLSVAGEIIGLGNVWRFYPY  
LCYKNGGGGAFFIPYLVLFTCGIPVFLLETALGQYTSQGGVTAWRKICPIFEGIGYASQM  
IVILLNVYIIIVLAWALFYLFSSFTIDLPGGGCYHEWNTHECMFQKTNGSLNGTSENAT  
SPVIEFWERRVLKISDGIQHLGALRWELALCLLLAWVICYFCIWKGVKSTGKVYFTATF  
PYLMLVLLIRGVTLPGAAQGIQFYLYPNLTRLWDPQVWMDAGTQIFFSFAICLGCLTAL  
GSYNKYHNNCYRDCIALCFLNSGTSFVAGFAIFSILGFMSQEQGVPISEVAESGPGLAFI  
AYPRAVVMLPFSPLWACCCFFMVLLGLDSQFVCVESLVTALVDMYPHVFRKKNRREVL  
LGVSVVSFLVGLIMLTEGGMYVFQLFDYAAASGMCLLFVAIFESLCVAWVYGAKRFYDNI  
EDMIGYRPWPLIKYCWFLTPAVCTATFLFSLIKYTPLTYNKKYTPWWGDALGWLALS  
SMVCIPAWSLYRLGTLKGPFRERIRQLMCPAEDLPQRNPAGPSAPATPRTSLLRLTELES  
HC

>sp|Q9H2J7|S6A15\_HUMAN Sodium-dependent neutral amino acid transporter B(0)AT2 OS=Homo sapiens GN=SLC6A15 PE=1 SV=1

MPKNSKVVKREDDVTESVKDLLSNEDAADDAFKTSELIVDGQEEKDTEVEEGSEVEDE  
RPAWNSKLQYILAQVGSVGLGNVWRFYPYLCQKNGGGAYLLPYLILLMVGIPLFLELS  
VGQRIRRGSIGVWNYISPGLGGIGFASCVVCYFVALYNNVIIGWSLFYFSQSFQQPLPWD  
QCPLVKNASHTFVEPECEQSSATYYWYREALNISSSISESGGLNWKMTICLLAAWVMVC  
LAMIKGIQSSGKIIYFSSLFPYVVLICFLIRAFLLNGSIDGIRHMFTPKLEIMLEPKVWR  
EAATQVFFALGLGFGGVIAFSSYNKRDNCHFDAVLVSFINFFTSVLATLVVFAVLGFA  
NVINEKCITQNSETIMKFLKMGNISQDIIPHINLSTVTAEDYHLVYDIIQKVKEEEFPA  
LHLNSCKIEEELNKAQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLVNLGLGSMFGTIE  
GIVTPIVDTFKVRKEILTVICCLLAFICGLIFVQRSGNYFVTMFDDYSATLPLLIVVILE  
NIAVCVFGYIDKFMEDLKDMLGFAPSRYYYYMWKYISPLMLLSLLIASVVNMGLSPPGYN  
AWIEDKASEEFLSYPTWGLVVCVSLVVFVAILPVPVVFIVRRFNLIDDSSGNLASVTYKRG  
RVLKEPVNLEGDDTSLIHGKIPSEMPSPNFGKNIYRKQSGSPTLDTAPNGRYGIGYLMAD  
IMPDMPESDL

>sp|Q9GZN6|S6A16\_HUMAN Orphan sodium- and chloride-dependent neurotransmitter transporter NTT5 OS=Homo sapiens GN=SLC6A16 PE=2 SV=1

MKTEAQPSTSLANTSWTGTVISDSVPGSQTWEDKGSLTRSATSWTSEAQVSAARVAEAQ  
ARTSQPKQISVLEALTASALNQKPTHEKVQMTEKKESEVLLARPFWSKTEYILAQVGS  
MKPSCLWRFAYLWLSNGGCSFAAIYIFMLFLVGVPLLFLEMAAGQSMRQGGMGVWKIAP  
WIGGVGYSSFMVCFILGLYFNVNWSWIIFYMSQSFQFPVPWEKCPLTMNSSGFDPECERT  
TPSIYFWYQQALKASDRIEDGGSPVYSLVLPFFLCWCLVGAFMINGLKSTGKVIYVLVLL  
PCFIIIVGFFIRTLLLEGAKFGLQQLVVAKISDVYNMSVWSLAGGQVLSNTGIGLSVASL  
ASYMPQSNCLSDAFLVSVINLLTLLVFTSFNFCVLGFWATVITHRCCERNAEILLKLIN  
LGKLPPDAKPPVNLLYNPTSIYNAWLSGLPQHIKSMVLREVTECNIETQFLKASEGPKFA  
FLSFVEAMSFLPPSVFWSFIFFLMLLAMGLSSAIGIMQGIITPLQDTFSFRKHTKLLIV  
GVFLLMFVCGLFFTRPSGSYFIRLLSDYWIVFPIIVVVVFETMAVSWAYGARRFLADLTI  
LLGHPISPIFGWLWPHLCPVLLIIIFVTMMVHLCMKPITYMSWDSSTSKEVLRPYPPWAL  
LLMITLFAIVILPIPAYFVYCRHRIPIFRPKSGDGPMSTASTSLPLSHQLTPSKEVQKEEI  
LQVDETKYPSTCNVTS

>sp|Q9H1V8|S6A17\_HUMAN Sodium-dependent neutral amino acid transporter SLC6A17 OS=Homo sapiens GN=SLC6A17 PE=1 SV=3

MPKNSKVTQREHSSEHVTESVADLLALEEPVDYKQSVLNVAGEAGGKQKAVEEELDAEDR

PAWNSKLQYILAQIGFSVGLGNIWRFPYLCQKNGGGAYLVPYLVLLIIIGIPLFFLELAV  
GQRIRRGSIGVWHYICPRLGGIGFSSCIVCLFVGLYYNVIIGWSIFYFFKSFQYPLPWSE  
CPVVRNGSVAVVEAECEKSSATTYFWYREALDISDSISESGGLNWKMTLCLLVAWSIVGM  
AVVKGIIQSSGKVMYFSSLFPYVVLACFLVRGLLLRGAVDGILHMFTPKLDKMLDPQVWRE  
AATQVFFALGLFGGVIASFSSYNKQDNNCHFDAALVSFINFFTSVLATLVVFAVLGFKAN  
IMNEKCVVENAEKILGYLNTNVLNRDLIPPHVNFSLTTKDYMEMYNVIMTVKEDQFSAL  
GLDPCLLEDELKSVQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLINLGLGSMIGTMAG  
ITTPIIDTFKVPKEMFTVGCCVFAFLVGLLFVQRSGNYFVTMFDDYSATLPLTLIVILEN  
IAVAWIYGTKKFMQELTEMLGRFPYRFYFYMWKVFSPLCMAVLTTASIIQLGVTTPPGYSA  
WIKEEAAERYLYFPNWAMALLITLIVVATLPIPVVFLRHFHLLSDGSNTLSVSYKKGRM  
MKDISNLEENDETRFILSKVPSEAPSPMPTHRSYLGPGSTSPLETSGNPNGRYGSGYLLA  
STPESEL

>sp|Q695T7|S6A19\_HUMAN Sodium-dependent neutral amino acid transporter B(0)AT1 OS=Homo sapiens GN=SLC6A19 PE=1 SV=1

MVRLVLPNPGLDARIPSLAELETIEQEEASSRPKWDNKAQYMLTCLGFCVGLGNVWRFY  
LCQSHGGGAFMIPFLILLVLEGIPLLYLEFAIGQRLRRGSLGVWSSIHPALKGLGLASML  
TSFMVGLYYNTIISWIMWYLFNSFQEPLPWSDCPLNENQTGYVDECARSSPVDYFWYRET  
LNISTSISDSGSIQWMLLCLACAWSVLYMCTIRGIETTGAUYITSTLPYVVLTIIFLIR  
GLTLKGATNGIVFLFTPNVTELAQPDWLDAGAQQVFFSFLAFGGLISFSSYNSVHNNCE  
KDSVIVSIINGFTSVYVAIVVYSVIGFRATQRYDDCFSTNLTILINGFDLPEGNTQENF  
VDMQQRNASDPAAYALVFQTCDINAFLSEAVEGTGLAFIVFTEAITKMPLSPLWSVLF  
FIMLFCLGLSSMFGNMEGVVPLQDLRVIPKWPKEVLTGLICLGTFLIGFIFTLNSGQY  
WLSLDSYAGSIPLLIIFCEMFVSVYVYGVDRFNKDIEFMIGHKPNIFWQVTWRVVSPL  
LMLIIFLFFFVVEVSQELTYSIWDPGYEEFPKSQKISYPNWVYVVVIVAGVPSLTIPGY  
AIYKLIRNHCQKPGDHQGLVSTLSTASMNGDLKY

>sp|Q8TBB6|S7A14\_HUMAN Probable cationic amino acid transporter OS=Homo sapiens GN=SLC7A14 PE=2 SV=3

MSGFFTSLDPRRVQGAAWYAMHSRILRTKPVESMLEGTGTTAHGTKLAQVLTTVDLIS  
LGVGSCVGTGMYVVSGLVAKEMAGPGVIVSFIIAASVILSGVCYAEFGVRVPKTTGSAY  
TYSYVTVGEFVAFFIGWNLILEYLIGTAAGASALSSMFDSLANTISRWMADSVGTNLGL  
GKGEESYPDLLALLIAVIVTIIIVLGVKNSIGFNNVLNVLNLAUVVFIIMAGLFFINGKY  
WAEGQFLPHGWSGLQGAATCFYAFIGFDIIATTGEEAKNPNTSIPYAITASLVICLTAY  
VSVSVILTMVPYYTIDTESPLMEMFVAHGFYAAKFVVAIGSVAGLTVSLLGSLFPMPRV  
IYAMAGDGLLFRFLAHVSSYTETPVVACIVSGFLAALLALLVSLRDLIEMMSIGTLLAYT  
LVSVCVLLRYQPESDIDGFVKFLSEEHTKKKEGILADCEKEACSPVSEGDEFSGPATNT  
CGAKNLPSLGDNEMLIGKSDKSTYNVNHHPNYGTVDMTTGIEADESENIYLIKKKLIGPH  
YYTMRIRLGLPGKMDRPTAATGHTVTICVLLLFILMFIFCSFIIFGSDYISEQSWWAILL  
VVLMLVLLISTLVFVILQQPENPKLPYMAPCLFPVPAFAMLVNIYMLKLSTITWIRFAV  
WCFVGLLIYFGYGIWNSTLEISAREEALHQSTYQRYDVEDDPFSVEEGFSYATEGESQEDW  
GGPTEDKGFYQQMSDAKANRTSSKAKSKSKHKQNSEALIANDELAYSPE

>sp|PODJI9|SAA2\_HUMAN Serum amyloid A-2 protein OS=Homo sapiens GN=SAA2 PE=1 SV=1

MKLLTGLVFCSLVSSSRSFFSFLGEAFDGARDMWRAYSMDREANYIGSDKYFHARGNY  
DAAKRGPGGAWAAEIVSNARENIQRLTGRGAEDSLADQAANKWGRSGRDPNHFRPAGLPE  
KY



>sp|Q9NTJ5|SAC1\_HUMAN Phosphatidylinositide phosphatase SAC1 OS=Homo sapiens GN=SACM1L  
PE=1 SV=2

MATAAYEQKLHITPEKFYVEACDDGADDVLTIDRVSTEVTLAVKKDVPPSAVTRPIFGI  
LGTIHLVAGNYLIVITKKIKVGEFFSHVVKATDFDVL SYKKTMLHLTDIQLQDNKTFLA  
MLNHVLNVDGFYFSTTYDLTHTLQRLSNTSPEFQEMSLERADQRFVWNGHLLRELSAQP  
EVHRFALPVLHGFI TMHSCSINGKYFDWILISRRSCFRAGVRYVVRGIDSEGHAA NFVET  
EQIVHYNGSKASFVQTRGSIPVFWSQLRPNLKYKPLQISKVANHMDGQRFHDSQV I IYG  
KQVI INLINQKGSEKPLEQTFATMVSSLGSGMMRYIAFDHFKECKNMRWDRLSILLDQVA  
EMQDELSYFLVDSAGQVVANQEGVFRSNCMDCLDR TNVIQSLLARRSLQAQLQRLGVLHV  
GQKLEEQDEFEKIYKNAWADNANACAKQYAGTGALKTDFTRTGKRTHLGLIMDGWNSMIR  
YYKNNFSDGFRQDSIDLFLGNYSVDELESHSPLSVPRDWKFLALPIIMVVAFSMCIICLL  
MAGDTWTETLAYVLFWGVASIGTFFIILYNGKDFVDAPRLVQKEKID

>sp|P23526|SAHH\_HUMAN Adenosylhomocysteinase OS=Homo sapiens GN=AHCY PE=1 SV=4

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERY SASKPLKGARIAGCLHMTVET  
AVLIETLVTLGAEVQWSSCNIFSTQDHA AAAIAKAGIPVYAWKGETDEEYLWCIEQTLYF  
KDGPLNMILDDGGDLTNLIHTKYPQLLPGIRGISEETTTGVHNL YKMMANGILKVPAINV  
NDSVTKSKFDNLYGCRESLIDG IKRATDVM IAGKVAVVAGYGDVGKGAQALRGFGARVI  
ITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG  
HFDVEIDVKWLNENAVEKVN IKPVDRYRLKNGRRIIL LAEGRVLNLGCAMGHPSFVMSN  
SFTNQVMAQIELWTHPDKYPVGVHFLPKKLDEAVAEHLGKLVKLTKLTEKQAQYLGMS  
CDGPFKPDHYRY

>sp|000422|SAP18\_HUMAN Histone deacetylase complex subunit SAP18 OS=Homo sapiens GN=SAP18  
PE=1 SV=1

MAVESRVTQEEIKKEPEKPIDREKTCPLLLRVFTTNNGRHHRMDEF SRGNVPSSSELQIYT  
WMDATLKELTSLVKEVYPEARKKGTHFNFAIVFTDVKRPGYRVKEIGSTMSGKGTDDSM  
TLQSQKFQIGDYLDIAITPPNRAPPPSGRMRPY

>sp|075446|SAP30\_HUMAN Histone deacetylase complex subunit SAP30 OS=Homo sapiens GN=SAP30  
PE=1 SV=1

MNGFTPDEMSRGGDAAA AAVVAAAAAASAGNGTGAGTGA EVPGAGAVSAAGPPGAAG  
PGPGQLCCLREDGERCGRAAGNASFSKRIQKSISQKKVKIELDKSARHLYICDYHKNL IQ  
SVRNRKRKRGSDDDGGDSPVQDIDTPEVDLYQLQVNTLRRYKRHFKLPTRPGLNKAQLVE  
IVGCHFRSIPVNEKDTLTYFIYSVKNDKNKSDLKVD SGVH

>sp|P17900|SAP3\_HUMAN Ganglioside GM2 activator OS=Homo sapiens GN=GM2A PE=1 SV=4

MQSLMQAPLLIALGLLLAAPAQAHLKKPSQLSSFSWDNCDEGK DPAVIRSLTLEPDPIIV  
PGNVTL SVMGSTSVPLSSPLKVDLVLEKEVAGLWIKIPCTDYIGSCTFEHFCDVLDMLIP  
TGEPCEPLR TYGLPCHCPFKEGTYS LPKSEFVVPDLELPSWLTTGNYRIESVLSSSGKR  
LGCIKIAASLKI

>sp|Q15020|SART3\_HUMAN Squamous cell carcinoma antigen recognized by T-cells 3 OS=Homo  
sapiens GN=SART3 PE=1 SV=1

MATAAETSASEPEAESKAGPKADGEEDEVKAARTRRKVLSRAVAAATYKTMGPAWDQQEE  
GVSESDGDEYAMASSAESSPGEYEWYDEEEKNQLEIERLEEQLSINVYDYNCHVDLIR  
LLRLEGELTKVRMARQKMSIFPLTEELWLEWLHDEISMAQDGLDREHVYDLFEKAVKDY  
ICPNIWLEYGQYSVGIGQKGGLEKVRSVFERALSSVGLHMTKGLALWEAYREFESAIVE  
AARLEKVHSLFRRQLAIPLYDMEATFAEYEEWSEDP IPESVIQNYNKALQQL EKYKPYEE

ALLQAEAPRLAEYQAYIDFEMKIGDPARIQLIFERALVENCLVPDLWIRYSQYLDRLKV  
KDLVLSVHNRAIRNCPWTVLWSRYLLAMERHGVHDQVISVTFEKALNAGFIQATDYVEI  
WQAYLDYLRRRVDFKQDSSKEELEELRAAFTRALEYLKQEVEERFNESGDPSCVIMQNWAR  
IEARLCNNMQKARELWDSIMTRGNAKYANMWLEYYNLERAHGDTQHCRKALHRAVQCTSD  
YPEHVCEVLLTMERTEGSLEDWDIAVQKTETRLARVNEQRMKAAEKEAALVQEEEEKAEQ  
RKRRAAEKKALKKKKKIRGPEKRGADEDDEKEWGDDEEEQPSKRRRVENSIPAAGETQNV  
EVAAGPAGKCAAVDVEPPSKQKEKAASLKRDMPKVLHDSSKDSITVFSNLPYSMQEPDT  
KLRPLFEACGEVVQIRPIFSNRGDFRGYCYVEFKEEKSALQALEMDRKSVEGRPMFVSPC  
VDKSKNPDFKVFYRSTSLKHKLFISGLPFSTKEELEICKAHGTVKDLRLVTNRAGKP  
KGLAYVEYENESQASQAVMKMDGMTIKENI IKVAISNPPQRKVPEKPETRKAPGGPMLLP  
QTYGARGKGRTQLSLLPRALQRPSAAAPQAENGPAAPAVAAPAAATEAPKMSNADFALF  
LRK

>sp|Q9NV23|SAST\_HUMAN S-acyl fatty acid synthase thioesterase, medium chain OS=Homo sapiens GN=OLAH PE=1 SV=1

MERGDQPKRTRNENIFNCLYKNPEATFKLICFPWMGGGSTHFAKWGQDTHDLLEVHSLRL  
PGRESRVEEPLendisQLVDEVVICALQPIQDKPFAFFGHSMGSYIAFRALGLKENNQ  
EPLHLFLSSATPVHSAWHRIKPDDELSEEQISHYLMFEGGTPKHFAEAKEFVKQCSP  
RADLNIVRSTSNVPSKAVLSCDLTCFVGSEDIADMEAWKDVTSNGAKIYQLPGGHFYL  
LDPANEKLIKNYIIKCLEVSSISNF

>sp|Q13228|SBP1\_HUMAN Selenium-binding protein 1 OS=Homo sapiens GN=SELENBP1 PE=1 SV=2

MATKCGNCGPYSTPLEAMKGPREEIVYLPCIYRNTGTEAPDYLATVDVPKSPQYCQVI  
HRLPMPNLKDELHHSWNTCSSCFGDSTKSRTKLVLPSLISSRIYVVDVGSEPRAPKLHK  
VIEPKDIHAKCELAFLHTSHCLASGEVMISSLGDVKGNGKGGFVLLDGETFEVKG  
TWERP  
GGAAPLGYDFWYQPRHNMISTEWAAPNVLRDGFNPADVEAGLYGSHLYVWDWQRHEIVQ  
TSLSKDGLIPLEIRFLHNPDAAGFVGCALSSSTIQRFYKNEGGTWSVEKVIQVPPKKVKG  
WLLPEMPGLITDILLSLDDRFLYFSNWLHGDRLQYDISDPQRRLTGQLFLGGSIVKGGP  
VQVLEDEELKSQPEPLVVKGKRVAGGPQMIQLSLDGKRLYITTSLYSAWDKQFYPDLIRE  
GSVMLQVDVDTVKGGLKLNPNFLVDFGKEPLGPAHAHELRYPGGDCSSDIWI

>sp|Q93073|SBP2L\_HUMAN Selenocysteine insertion sequence-binding protein 2-like OS=Homo sapiens GN=SECISBP2L PE=1 SV=3

MDRAPTEQNVKLSAEVEPFIPQKSPDTFMIPMALPNDNGSVSGVEPTPIPSYLITCYPF  
VQENQSNRQFPLYNNDIRWQQPNPNPTGPYFAYPIISAQPPVSTEYTYQLMPAPCAQVM  
GFYHPFPTPYSNTFQAANTVNAITTECTERPSQLGQVFPLSSHRSRNSNRGSVVPKQQLL  
QQHIKSKRPLVKNVATQKETNAAGPDSRSKIVLLVDASQQTDFPSDIANKSLSETTATML  
WKSkgRRRRASHPTAESSESEQGASEADIDSDSGYCSPKHSNNQPAAGALRNPDsgTMNHV  
ESSMCAGGVNWSNVTCATQKKPWMEKNQTFSRGGRQTEQRNNSQVGFRCRghSTSSERR  
QNLQKRPDNKHLSSSQSHRSDPNSESlyFEDEDGFQELNENGNAKDENIQQKLSSKVLDD  
LPENSPINIVQTPIPTTSVPKRAKSQKKKALAAALATAQEYSEISMEQKKLQEALSKAA  
GKKNKTPVQLDLGDLAALEKQQQAMKARQITNTRPLSYTVVTAASFHTKDSTNRKPLTK  
SQPCLTSFNSVDIASSKAKKGKEKEIAKLKRPTALKKVKILKEREKKGRLTVDHNLGSE  
EPTemHlDfIDDLpQEIVSQedTGLsMPsDTSLSpasQNSpyCMTpVSqGSPASSGIGSP  
MASSTITKIHSKRfREYCNQVLCKEIDECVTLLLQELVSfQERIYQKDPVRAKARRRLVM  
GLREvTKHmKLNkICVIIspNCEKIqSKGGLDEALYNVIAMAREQEIPFVFALGRKALG  
RCVNKLVPVSVVGIFNYFGAESLFNKLVELTEARKAYKDMVAAMEQEQAEEALKNVKKV

PHHMGHSRNPASAASISFCSVISEPISEVNEKEYETNWRNMVETSDGLEASENEKEVSCK  
HSTSEKPSKLPFDTPPIGKQPSLVATGSTTSATSAGKSTASDKEEVKPDDEWASQQSTE  
TGLDGLGSCRDLLNSSITSTTSLVPGMLEEEEEDEEEEEEDYTHEPISVEVQLNSRIESW  
VSETQRTMETLQLGKTLNGSEEDNVEQSGEEEAPEVLEPGMDSEAWTADQQASPGQKQK  
SSNCSSLNKEHSDSNYTTQTT

>sp|Q92791|SC65\_HUMAN Synaptonemal complex protein SC65 OS=Homo sapiens GN=P3H4 PE=1 SV=1

MARVAWGLLWLLGSAGAQYKEYSFRGFPEDLMPLAAAYGHALEQYEGESWRESARYLE  
AALRLHRLRDSEAFCHANCSPAPAAKPDGGRADEWACELRLFGRLERAACLRRCK  
RTLPAFQVPYPPRQLLRDFQSRLPYQYLHYALFKANRLEKAVAAAYTFLQRNPKHELTAK  
YLNYYQGMLDVADES LTDLEAQPYEAVFLRAVKLYNSGDFRSSTEDMERALSEYLAVFAR  
CLAGCEGAHEQVDFKDFYPAIADLFAESLQCKVDCEANLTPNVGGYFVDK FVATMYHYLQ  
FAYYKLNDRQAARSASYMLFDPKDSVMQQNLVYYRFHRRARWGLEEDFQPREEAMLYH  
NQTAELRELLEFTHMYLQSDDEMELEETEPPLEPEDALSDAEFEGEGDYEEGMYADWWQE  
PDAKGDEAEAEPEPELA

>sp|P30531|SC6A1\_HUMAN Sodium- and chloride-dependent GABA transporter 1 OS=Homo sapiens  
GN=SLC6A1 PE=1 SV=2

MATNGSKVADGQISTEVSEAPVANDKPKTLVVKVQKKAADLPDRDTWKGRFDFLMSCVGY  
AIGLGNVWRFPYLCGKNGGGAFLIPYFLTLIFAGVPLFLECSLGGYTSIGGLGVWKLAP  
MFKGVGLAAAVLSFWLNIYYIVIIISWAIYYLYNSFTTTLPWKQCDNPWNTDRCFSNYSMV  
NTTNMTSAVVEFWERNMHQMTDGLDKPGQIRWPLAITLAIWILVYFCIWKGVGWTGKVV  
YFSATYPYIMLIILFFRGVTLPGAKEGILFYITPNFRKLSDEVWLDAAATQIFFSYGLGL  
GSLIALGSYNSFHNNVYRDSIIIVCCINSCTSMFAGFVIFSIVGFMAHVTKRSIADVAASG  
PGLAFLAYPEAVTQLPISPLWAILFFSMLMLGIDSQFCTVEGFITALVDEYPRLLRNRR  
ELFIAAVCIISYILIGLSNITQGGIYVFKLFDYYSASGMSLLFLVFFECVSISWFGVGNRF  
YDNIQEMVGSRPCIWWKLCWSFFTPIIVAGVFIFS AVQMTPLTMGNYVFPKWGGQGVGWM  
ALSSMVLIPGYMAYMFLTLKGLSKQRIQVMVQPS EDIVRPENGPEQPQAGSSTSKEAYI

>sp|P48029|SC6A8\_HUMAN Sodium- and chloride-dependent creatine transporter 1 OS=Homo  
sapiens GN=SLC6A8 PE=1 SV=1

MAKSAENGIYSVSGDEKKGLIAPGPDGAPAKGDGPVGLGTPGGRLAVPPRETWTRQMD  
FIMSCVGFVAVGLGNVWRFPYLCYKNGGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGS  
INVWNICPLFKGLGYASMVIVFYCNTYYIMVLAWGFYYLVKSFTTTLPWATCGHTWNTPD  
CVEIFRHEDCANASLANLTCQLADRRSPVIEFWENKVLRLSGGLEVP GALNWEVTLCLL  
ACWVLVYFCVWKGVKSTGKIVYFTATFPYVVLVLLVRGVLLPGALDGIYYLKPWWSKL  
GSPQVWIDAGTQIFFSYAIGLGALTALGSYNRFNNNCYKDAIILALINSGTSFFAGFVVF  
SILGFMAAEQGVHISKVAESGPGLAFIAYPRAVTLMPVAPLWAALFFFMLLLLGLDSQFV  
GVEGFITGLDLLPASYYFRFQREISVALCCALCFVIDLSMVT DGGMYVFQLFDYYSASG  
TTLLWQAFWECVVAVVYGADRFMDDIACMIGYRCPWMKWCWSFFTPLVCMGIFIFNVV  
YYEPLVYNNTYVYPWWGEAMGWAFALSSMLCVPLHLLGCLLRAGTMAERWQHLTQPIWG  
LHHLEYRAQDADVRGLTTLTPVSESSKVVVVESVM

>sp|Q9UPN6|SCAF8\_HUMAN Protein SCAF8 OS=Homo sapiens GN=SCAF8 PE=1 SV=1

MEAVKTFNSELYSLNDYKPPISKAKMTQITKAAIKAIKFYKHVVQSVEKFIQKCKPEYKV  
PGLYVIDSIVRQSRHQFGQEKDVFAPRFSNNIISTFQNL YRCPGDDKSKIVRVNLWQKN  
NVFKSEIIQPLLDMAAGIPPPVTPVLASTTTAMSNTPGTPVTPVTPANVVQGLPDPWVS  
QITNTDTLAAVAQILQSPQGGQLQQLIQTLQIQQKPKPSILQALDAGLVVQLQALTAQL

TAAAAAANTLTPLEQGVSFNKKLMDRFDGDESEHSEEPKKEIPASQLSHVSESVNNSIF  
HQIAEQLQQQNLEHLRQQLLEQQQPQKATPQDSQEGTFGSEHSASPSQGSSQQHFLEPEV  
NLDDSIDIQQDMDIDEGQDGVVEEVFEQEAKKVAVRSRSTRHSRSTRSPRKRSTRSRS  
GSRKRKHKRSTRSRERKRKSSRSYSERRAREREKERQKKGLPPIRSKTL SVCSTTLW  
VGQVDKKATQQDLTNLFEEFGQIESINMIPPRGCAYVCMVHRQDAFRALQKLSSGSYKIG  
SKVIKIAWALNKGVKTEYKQFWDVDLGVTYIPWEKVKVDDLEGFAEGGMIDQETVNTWE  
TVKSSEPVKETVQTTQSPTPVEKETVVTTQAEVFPPPVAMLQIPVAPAVPTVSLVPPAFP  
VSMPVPPPGFSPIPPPPFLRASFNPSQPPPGFMPPVPPPVPPPTIPPVVPTSLVQPSL  
SMTPETVKDVGFGSLVIPGGSVASNLATSALPAGNVFNAPTKQAEPEEKVPHLIDHQISS  
GENTRSVIPNDISSNAAILGGQPPNVTNSGILGVQRPNVSSNSEILGVRPSNVSSSSGI  
IAAQPPNILLNSGILGIQPPSVSNSSGLLGVLPNIPNNSGLVGVQPPNPNTPGLLGTQ  
PPAGPQNLPPLSIPNQRMPTMPMLDIRPGLIPQAPGPRFPLIQPGIPPQRGIPPSVLDS  
ALHPPPRGPFPPGDIFSQPERPFAPGRQSVDNVTNPEKRIPLGNDNIQQEGDRDYRFPP  
IETRESISRPPPVDRDVVGRPIDPREGPRPPLDGRDHFGRPPVDIRENLVRPGIDHLG  
RRDHFGENPEKPWGHGRGDFDEREHRVLPVYGGPKGLHEERGRFRSGNYRFDPRSGPWNRG  
FGQEVHRDFFDRRRPWERQRDRDDRDFDFCREMNGNRLGRDRIQNTWVPPPHARVFDYFE  
GATSQRKGDNPQVNGENTERHAQPPPIPVQNDPELYEKLTSNEINKEKSDTVADIESE  
PVVESTETEGT

>sp|Q969E2|SCAM4\_HUMAN Secretory carrier-associated membrane protein 4 OS=Homo sapiens  
GN=SCAMP4 PE=1 SV=1

MSEKENNFPLPKFIPVKPCFYQNFSD EIPVEHQVLVKRIYRLWMFYCATLGVNLIACLA  
WWIGGSGTNGFLAFVWLLFTPCGYVCWFRPVYKAFRADSSFNMAFFFI FGAQFVLTV  
IQAIGFSGWGACWLSAIGFFQYSPGAAVMMLPAIMFSVSAAMMAIAIMKVHRIYRGAG  
GSFQKAQTEWNTGTWRNPPSREAYNNFSGNSLPEYPTVPSYPGSGQWP

>sp|Q8WU76|SCFD2\_HUMAN Sec1 family domain-containing protein 2 OS=Homo sapiens GN=SCFD2  
PE=1 SV=2

MSASGVLSTQQGWEQVLAKVKRAVVYLDAAEAESLHWGCGSTRLL EAVGGPDCHLREFE  
PDAIGGGAQPKAVFVLSCLLKGRTEILRDIICRSHFYQCVVTTVSHAVHLTANHVPA  
AAAAMEGQQPVFEQLEEKCEWMGNMNYTAEVFHVPLLLAPVAPHFALTPAFASLFPLL  
PQDVHLLNSARPDKRKLGS LGDVDSTLTPELLLQIRCLVSGLSSLCEHLGVREECFAVG  
SLSQVIAADLANYAPAKNRKKTAGRASVVFVDRTLDLTGAVGHHGDNLVEKIISALPQL  
PGHTNDVMVNMIALTALHTEENYNV VAPGCLSQSSDTTAKALWEALLNTKHKEAVMEVR  
RHLVEAASRENLP IKMSMGRTVPGQLMSYIQLFKNNLKALMNHCGLLQLGLATAQTLKHP  
QTAKWDNFLAFERLLLSIGESAMSVVLNQLLPMIKPVTQRTNEDYSPEELLILLIYIYS  
VTGELTVDKDLCEAEKVKKALAQVFCEESGLSPLLQKITDWDSSINLTFHKSIAVDEL  
FTSLRDIAGARSLKQFKSVYVPGNHTHQASYKPLLKQVVEEIFHPERPDSVDIEHMSSG  
LTDLLKTGFMSFMKVS RPHPSDYPLLILFVVGVTVSEVMVKDLVASLKPGTQVIVLST  
RLKPLNIPELLFATDRLHPDLGF

>sp|Q9BV35|SCMC3\_HUMAN Calcium-binding mitochondrial carrier protein SCaMC-3 OS=Homo  
sapiens GN=SLC25A23 PE=1 SV=2

MRGSPGDAERRQRWGR LFEELDSNKDGRVDVHEL RQGLARLGGGNPDPGAQQGISSEGDA  
DPDGGLDLEEF SRYLQEREQRLLLMFHSLDRNQDGHIDVSEIQQSFRALGISISLEQAEK  
ILHSMRDRGTMTIDWQEWDRHFLHSL ENVEDVLYFWKHSTVLDIGECLTVPDEF SKQEK  
LTGMWWKQLVAGAVAGAVSRTGTAPLDRLKVF MQVHASKTNRLNILGGLRSMVLEGGIRS

LWRNGINVLKIAPESAIKFMAYEQIKRAILGQQETLHVQERFVAGSLAGATAQTIIYPM  
EVLKTRLTLRRTGQYKGLDCARRILEREGRAPFYRGYLPNVLGIIPYAGIDLAVYETLK  
NWWLQQYSHDSADPGILVLLACGTISSTCGQIASYPLALVRTRMQAQASIEGGPQLSMLG  
LLRHILSQEGMRGLYRGIAPNFMKVIPAVSISYVVYENMKQALGVTSR

>sp|Q8N228|SCML4\_HUMAN Sex comb on midleg-like protein 4 OS=Homo sapiens GN=SCML4 PE=1  
SV=2

MQSQRIPGRKRGRPSLHSTPMKMAVHNLYSASAGSLPAVKIPKKRGRKPGYKIKSRVLMT  
PLALSPPRSTPEPDLSSIPQDAATVPSLAAPQALTVCLYINKQANAGPYLERKKVQQLPE  
HFGPERPSAVLQQAVQACIDCAHQKLVFSLVKQGYGGEMVSVSASFQKQHLRSLPVVN  
SIGYVLRFLAKLCRSLCDDLFSHQPFPRGCSASEKVQEKEEGRMESVKTVTTEEYLVNP  
VGMNRYSDVTSASTFNHRGSLHPSSSLYCKRQNSGDSHLGGGPAATAGGPRTSPMSSGGP  
SAPGLRPPASSPKRNTTSLEGNRCASSPSQDAQDARRPRSRNPSAWTVEDVVWFVKDADP  
QALGPHVELFRKHEIDGNALLLLKSDMVMKYLGKLGPAKLCYHIDKLKQAKF

>sp|Q07699|SCN1B\_HUMAN Sodium channel subunit beta-1 OS=Homo sapiens GN=SCN1B PE=1 SV=1

MGRLLALVVGAAALVSSACGGCVEVDSETEAVYGMTFKILCISCKRRSETNAETFTWTFR  
QKGTEEFVKILRYENEVLQLEEDERFEGRVVWNGSRGTDLDLSIFITNVTYNHS GDYE  
CHVYRLLFFENYEHTSVVKKIHIEVVDKANRDMASIVSEIMMYVLIVVLTITWLVAEMIY  
CYKKIAAATETA AQENASEYLAITSESKENCTGVQVAE

>sp|Q01118|SCN7A\_HUMAN Sodium channel protein type 7 subunit alpha OS=Homo sapiens  
GN=SCN7A PE=1 SV=2

MLASPEPKGLVPFTKESFELIKQHIAKTHNEDHEEEDLKPTPDLEVGGKLPFIYGNLSQG  
MVSEPLEDVPYKKNTFIVLNKNRTIFRFNAASILCTLSPFNCIRRTTIKVLVHPFF  
QLFILISVLIDCVFMSLTNLPKWRPVLENTLLGIYTFEILVKLFARGVWAGSFSFLGDPW  
NWLDFSVTVFEVIRYSPLDFIPTLTQARTLRILKIIPLNQGLKSLVGLIHCLKQLIGV  
IILTFFLSIFSLIGMGLFMGNLKHKCFRWPQENENETLHNRTGNPYYIRETENFYYLEG  
ERYALLCGNRTDAGQCPEGYVCVKAGINPDQGFTNFDSFGWALFALFRLMAQDYPEVLYH  
QILYASGKVYMIFFVVVSFLFSFYMASLFLGILAMAYEEEEKRVGEISKKIEPKFQQTGK  
ELQEGNETDEAKTIQIEMKKRSPISTDTSLDVLEDATLRHKEELEKSKKICPLYWYKFAK  
TFLIWNCSPCWLKKEFVHRIIMAPFTDLFLIICIILNVCFLTLEHYPMSKQTNTLLNIG  
NLVFIGIFTAEMIFKIIAMHPYGYFQVGWNIFDSMIVFHGLIELCLANVAGMALLRLFRM  
LRIFKLKGYWPTFQILMWSLSNSWVALKDLVLLFTFIFFSAAFQGMKLFQKNYEEFVCHI  
DKDCQLPRWHMHDFHSLNVFRILCGEWVETLWDCMEVAGQSWCIPFYLMLVILIGNLLV  
LYLFLALVSSFSCKDVTAENNEAKNLQLAVARIKGINYVLLKILCKTQNVPKDTMDH  
VNEVYKEDISDHTLSELSNTQDFLKDEKSSGTEKNATENESQSLIPSPSVSETVPIAS  
GESDIENLDNKEIQSKSGDGSKEIKQSSSSECSTVDIAISEEEEMFYGGERSKHLKNG  
CRRGSSLGQISGASKGKIWNIRKTCCKIVENNWFKCFIGLVTLTSTGLAFEDIYMDQ  
RKTIKILLEYADMIFTYIFILEMLLKWMAYGFKAYFSNGWYRLDFVVVIVFCLSLIGKTR  
EELKPLISMKFLRPLRVLSQFERMKVVVRALIKTTLPTLNVFLVCLMIWLIFSIMGVDLF  
AGRFYECIDPTSGERFSPSEVMNKSRCESLLFNESMLWENAKMNFNDVNGGFLSLLQVAT  
FNGWITIMNSAIDSVAVNIQPHFEVNIYMYCYFINFIIFGVFLPLSMLITVIIDNFNKHK  
IKLGGSNIFITVKQRKQYRRLKKLMYEDSQRPVPRPLNKLQGFIFDVVTSQAFNVI VMVL  
ICFQAIAMMIDTDVQSLQMSIALYWINSIFVMLYTMECILKLI AFRCFYFTIAWNIFDFM  
VVIFSITGLCLPMTVGSYLVPPSLVQLILLSRIIHMLRLGKGPVFNHMLPLMLSLPAL  
LNIILLIFLVMFIYAVFGMYNFAYVKKKEAGINDVSNFETFGNSMLCLFQVAIFAGWDGML

DAIFNSKWSDCDPDKINPGTQVRGDCGNPSVGIFYFVSYLISWLIIVNMYIVVMEFLN  
IASKKKNKTLSEDDFRKFFQVWKRFPDRTQYIDSSKLSDFAAALDPPLFMAKPNKGQLI  
ALDLPMAVGDRIHCLDILLAFTRKVMGQDVRMEKVVSEIESGFLLANPFKITCEPITTTL  
KRKQEAVSATIIQRAYKNYRLRRNDKNTSDIHMDGDRDVHATKEGAYFDKAKEKSPIQS  
QI

>sp|Q15858|SCN9A\_HUMAN Sodium channel protein type 9 subunit alpha OS=Homo sapiens  
GN=SCN9A PE=1 SV=3

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FIYGDIPPGMVSEPLEDLDPYYADKKTIFVLNKGKTIIFRNATPALYMLSPFSPLRRISI  
KILVHSLFSMLIMCTILTNCIFMTMNNPPDWTKNVEYFTGTIYTFESLVKILARGFCVGE  
FTFLRDPWNWLDFFVIVFAYLTFVNLGNVSALRTFRVLRALKTISVIPGLKTIVGALIQ  
SVKKLSDVMILT VFCLSVFALIGLQLFMGNLKHKCFRNSLENNETLESIMNTLESEEDFR  
KYFYYLEGSKDALLCGFSTDGQCPEGYTCVKIGRNP DYGYTSFDTFSWAFLALFRLMTQ  
DYWENLYQQTLRAAGKTYMIFVVFVIFLGSFYLINLILAVVAMAYEEQNQANIEEAKQKE  
LEFQQMLDRLKKEQEEAEIAAAAAEYTSIRRSRIMGLSESSSETSLSKSAKERRNRR  
KKKNQKKLSSGEEKGDAEKLKSESEDSIRKSFHLGVEGHRAHEKRLSTPNQSPLSIR  
GSLFSARRSSRTSLFSFKGRGRDIGSETEFADDEHSIFGDNESRRGSLFVPHRPQERRSS  
NISQASRSPMLPVNGMHSVAVDCNGVVSLVDGRSALMLPNGQLLPEVIIDKATSDDSGT  
TNQIHKKRRCSSYLLSEDMNDPNLRQRAMSRA SILTNTVEELEESRQKCPPWWYRFAHK  
FLIWNCSPIYWKFKKCIYFIVMDPFVDLAITICIVLNTLFMAMEHHPMTEEFKNVLAIGN  
LVFTGIFAAMVCLKIAMDPYEFQVGNIFDSLIVTSLVELFLADVEGLSVLRSFRLL  
RVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIVFIFAVVGMQLFGKSYKECVCKIN  
DDCTLPRWHMNDFFHSFLIVFRVLGGEWIE TMWDCMEVAGQAMCLIVYMMVMVIGNLVVL  
NLFLALLLSSFSSDNLTAIEEDPDANNLQIAVTRIKKGINVVKQTLREFILKAFSKKPKI  
SREIRQAEDLNTKKENYISNHTLAEMSKGHNFLKEKDKISGFGSSVDKHLMEDSDGQSFI  
HNPSLTVTVPIAPGESDLENMNAEELSSDSDSEYSKVRLNRSSSSECSTVDNPLPGEGEE  
AEAEPMNSDEPEACFTDGCVWRFSCCQVNIESGKGKIWWNIRKTCYKIVEHSWFESFIVL  
MILLSSGALAFEDIYERKKTIKIILEYADKIFTYIFILEMLLKWIAYGYKTYFTNAWCW  
LDLFLVDVSLVTLVANTLGYSDLGP I KSLRTLRLRPLRLSRFEGMRVVVNALIGAIPS  
IMNVLLVCLIFWLIFSIMGVNLFAGKFYECINTTDGSRFPASQVNRSECFALMNVSQNV  
RWKNLKVNFNDVGLGYLSLLQVATFKGWTIIMYAAVDSVNVDKQPKYEYSLYMYIYFVVF  
IIFGSFRTLNLFIGVIIDNFNQKKKLGGQDIFMTEEQKKYNNAMKKLGSKKPQKPIPRP  
GNKIQGCIFDLVTNQAFDISIMVLICLNMVTMMVEKEGQSQHMTVELYWINVVFIILFTG  
ECVLKLISLRHYFTVGWNIFDFVVVVISIVGMFLADLIETYFVSPTLFRVIRLARIGRI  
LRLVKGAKGIRTLFALMMSLPALFNIGLLLFLVMFIYAIFGMSNFAYVKEDGINDMFN  
FETFGNSMICLFQITTSAGWDGLLAPILNSKPPDCDPKKVHPGSSVEGDCGNPSVGIFYF  
VSYIIISFLVVVNMYIAVILENFSVATEESTEPLSEDDFEMFYEVWEKFDPDATQFIEFS  
KLSDFAAALDPPLLIAKPNKVQLIAMDLPMVSGDRIHCLDILFAFTRKVLGESGEMDSL  
SQMEERFMSANPSKVSYPEITTTLKRKQEDVSATVIQRAYRRYRLRQNVKNISSIYIKDG  
DRDDDLLNKKDMAFDNVNENSSPEKTDATSTTSPPSYDSVTKPDKEKYEQDRTEKEDKG  
KDSKESKK

>sp|043819|SCO2\_HUMAN Protein SCO2 homolog, mitochondrial OS=Homo sapiens GN=SCO2 PE=1  
SV=3

MLLLTRSPATAWHRLSQLKPRVLPGLTGGQALHLRSWLLSRQGAETGGQGQPQGPGLRTR

LLITGLFGAGLGGAWLALRAEKERLQQQKRTEALRQAAVGQGDFHLLDHRGRARCKADFR  
GQWVLMYFGFTHCPDIPCDELEKLVQVVRQLEAEPGLPPVQPVFITVDPERDDVEAMARY  
VQDFHPRLLGLTGSTKQVAQASHSYRVYYNAGPKDEDQDYIVDHSIAIYLLNPDGLFTDY  
YGRSRSAEQISDSVRRHMAAFRSVLS

>sp|Q9UIL1|SCOC\_HUMAN Short coiled-coil protein OS=Homo sapiens GN=SCOC PE=1 SV=2

MRRRVFSSQDWRASGWDGMGFFSRRTFCGRSGRSCRGQLVQVSRPEVSAGSLLLPAPQAE  
DHSSRILYPRPKSLLPKMMNADMDAENQVELEEKTRLINQVLELQHTLEDLSARVDA  
VKEENLKLKSENQVLGQYIENLMSASSVFQTTDTKSKRK

>sp|Q9BWW7|SCRT1\_HUMAN Transcriptional repressor scratch 1 OS=Homo sapiens GN=SCRT1 PE=1  
SV=1

MPRSFLVKVKLDAFSSADLESAYGRARSDLGAPLHDKGYLSDYVGPSSVYDGAEEAALL  
KGPSPEPMYAAAVRGELGPAAAGSAPPPTPRPELATAAGGYINGDAVSEGYAADAFFIT  
DGRSRRKASNAGSAAAPSTASAAAPDGDAGGGGAGGRSLGSGPGGRGGTRAGAGTEARA  
GPGAAGAGGRHACGECGKTYATSSNLSRHKQTHRSLDSQLARRCPTCGKYVVSMPAMAMH  
LLTHDLRHKCGVCGKAFSRPWLLQGHMRSHTGEKPFCAHCGKAFADRSNLRAHMQTHSA  
FKHFQCKRCKKSFAKLSYLNKHYESACFKGGAGGPAAPAPPQLSPVQA

>sp|Q9H0K4|RSH6A\_HUMAN Radial spoke head protein 6 homolog A OS=Homo sapiens GN=RSPH6A  
PE=2 SV=1

MGDLPPYPERPAQQPPGRRTSQASQRRHSRDQAQALAADPEERQQIPDAQRNAPGWSQR  
GSLSQENLLMPQVQFAEEARLGGMEYPSVNTGFPSEFQPPYSDSRMQVAELTSLML  
QRLQQGSSLFQQLDPTFQEPVNPLGQFNLYQTDQFSEGAQHGPYIRDDPALQFLPSEL  
GFPHYSAQVPEPEPELEAVQNAKAYLLQTSINCDLSLYEHLVNLLTKILNQRPEPLSVL  
ESLNRTTQWEWFHPKLDLTDPEMQPTYKMAEKQKALFTRSGGTEGEQEMEEVGETP  
VPNIMETAFYFEQAGVGLSSDESFRIFLAMKQLVEQQPIHTCRFWGKILGIKRSYLVAEV  
EFREGEEEAEEEEVEEMTEGGEVMEAHGEEEGEEDDEKAVDIVPKSVWKPPVPIKEESR  
SGANKYLYFVCNEPLPWTRLPHVTPAQIVNARKIKKFFTGYLDTPVVSYPFPGNEANY  
LRAQIARISAATQVSPLGFYQFSEEEGDEEEEGGAGRDSYEENPDFEGIPVLELVDSMAN  
WVHHTQHILPQGRCTWVNPLQKTEEEEDLGEDEEKADEGPVEVEQEVGPPLLTPLSEDAE  
IMHLAPWTTRLSCSLCPQYSVAVVRNLWPGAYAYASGKKFENIYIGWGHKYSPEFNPAL  
LPAPIQQEYPSGPEIMEMSDPTVEEEQALKAAQEALGATEEEEEEEEEEGEETDD

>sp|O00442|RTCA\_HUMAN RNA 3'-terminal phosphate cyclase OS=Homo sapiens GN=RTCA PE=1 SV=1

MAGPRVEVDGSIEMGGGQILRVSTALSCLLGLPLRVQKIRAGRSTPGLRPQHLSGLEMIR  
DLCDGQLEGAEIGSTEITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLFAASPSELH  
LKGGTNAEMAPQIDYITVMVFKPIVEKFGFIFNCIDIKTRGYYPKGGGEVIVRMSPVKQLNP  
INLTERGCVTKIYGRAFVAGVLPFKVAKDMAAAVRCIRKEIRDLYVNIQPVQEPKDQAF  
GNGNGIIIIAETSTGCLFAGSSLGKRGVNADKVGIEAAEMLLANLRHGGTVDEYLQDQLI  
VFMALANGVSRIKTGPVTLHTQTAIHFAEQIAKAKFIVKKSEDEEDAADDTYIIIECQGIG  
MTNPNL

>sp|Q9NZ71|RTEL1\_HUMAN Regulator of telomere elongation helicase 1 OS=Homo sapiens  
GN=RTEL1 PE=1 SV=2

MPKIVLNGVTVDFFPQPYKCCQEYMTKVLECLQQKVNGILESPTGTGKTLCLLCTTLAWR  
EHLRDGISARKIAERAQGELFPDRALSSWGNAAGDPIACYTDIPKIIYASRTHSGLT  
QVINELRNTSYRPKVCVLGSREQLCIHPEVKKQESNHLQIHLCKKKVASRSCHFYNVVEE  
KSLEQELASPILDIEDLVKSGSKHRVCPYYLSRNLKQQADIIFMPYNYLLDAKSRRAHNI

DLKGTVVIFDEAHNVEKMCEESASFDLTPHDLASGLDVIDQVLEEQTAAQQGEPHPEFS  
ADSPSPGLNMELEDIAKLKMILLRLEGAIDAVELPGDDSGVTKPGSYIFELFAEAQITFQ  
TKGCILDSLDQIIQHLAGRAGVFTNTAGLQKLADIQIVFSVDPSESGSPAGLGALQS  
YKVHIHPDAGHRRTAQRSDAWSTTAARKRGKVLSYWCFSPGHSMHELVRQGVRSLILTSG  
TLAPVSSFALEMQIPFPVCLENPHIIDKHQIWVGVPVPRGPDGAQLSSAFDRRFSEECLSS  
LGKALGNIRVVPYGLLIFFPSYPVMEKSLEFWRRDLARKMEALKPLFVEPRSKGSFSE  
TISAYYARVAAPGSTGATFLAVCRGKASEGLDFSDTNGRGVIVTGLPYPPRMDPRVVLKM  
QFLDEMGQGGAGGQFLSGQEYRQQASRAVNQAIGRVIHRQDYGAVFLCDHRFAFADA  
RAQLPSWVRPHRVYDNFGHVIRDVAQFFRVAERTMPAPAPRATAPSVRGEDAVSEAKSP  
GPFSTRKAKSLDLHVPSTKQRSSGSPAAGDPESLCEVEYEQEPVPAQRPRGLLALEH  
SEQRAGSPGEEQAHSCTLSLLSEKRPAAEPRGGRKKIRLVSHPEEPVAGAQTDRAKLFM  
VAVKQELSQANFATFTQALQDYKGSDDFAALAACLGPLFAEDPKKHNLQGFYQFVRPHH  
KQQFEEVCILTGRGCGYRPEHSIPRRQRAQPVLDPTGRTAPDPKLTVSTAAAQQLDPQE  
HLNQGRPHLSRPPPTGDPGSQPQWGSVPRAGKQGQHAVSAYLADARRALGSAGCSQLL  
AALTAYKQDDDLKVLAVLAALTTAKPEDFPLLHRFSMFVRPHHKQRFSTCTDLTGRPY  
PGMEPPGPQEERLAVPPVLTHRAPQPGPSRSEKTGKTQSKISSFLRQRPAGTVGAGGEDA  
GPSQSSGPPHGAASEWGL

>sp|Q96DX8|RTP4\_HUMAN Receptor-transporting protein 4 OS=Homo sapiens GN=RTP4 PE=1 SV=3  
MVVDFWTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAFGWFRCSQQR  
SWASAQVQILCHTYEHWTSSQGQVRMRLFGQRCQKCSWSQYEMPEFSSDSTMRILSNLVQ  
HILKKYYNGTRKSPMPVILEVSLEGSHDTANCEACTLGICGGLKSCMTKPSKSLPH  
LKTGNSSPGIGAVYLANQAKNQSAEAKEAKGSGYEKLGPSRDPDPLNICVFILLVFIVV  
KCFTSE

>sp|P09661|RU2A\_HUMAN U2 small nuclear ribonucleoprotein A' OS=Homo sapiens GN=SNRPA1  
PE=1 SV=2  
MVKLTAELEIEAAQYTNVARDRELDLRGYKIPVIENLGATLDQFDAIDFSNEIRKLDGF  
PLRLRLKTLVNNNRICRIGGLDQALPCLTELILTNNSLVELGDLPLASLSLTYLSI  
LRNPVTNKKHYRLVYIKVPQVRVLDQKVKLKERQAEKMFKGKRAQLAKDIARRSKT  
FNPGAGLPTDKKKGSPGDEAIAKNAIANASTLAEVERLKGLLQSGQIPGRERRSGPTD  
DGEEMEEDTVTNGS

>sp|Q9UJJ7|RUSD1\_HUMAN RNA pseudouridylate synthase domain-containing protein 1 OS=Homo  
sapiens GN=RPUSD1 PE=1 SV=1  
MEPGSVENLSIVYRSRDFLVVNKHWDVRIDSKAWRETLTLQKQLRYRFPPELADPDTCYGF  
RFCHQLDFSTSGALCVALNKAAGSAYRCFKERRVTKAYLALLRGHIQESRVTISHAIGR  
NSTEGRAHTMCIEGSQCENPKPSLTDLVVLEHGLYAGDPVSKVLLKPLTGRTHQLRVHC  
SALGHPVVGDLYGEVSGREDRPFMMLHAFYLRIPTDTECEVCTPDPFLPSLDACWSP  
HTLLQSLDQLVQALRATPDPEDRGPRPGSPSALLPGGRPPPPPTKPPETEAQRGPCL  
QWLSEWTLEPDS

>sp|Q6P087|RUSD3\_HUMAN RNA pseudouridylate synthase domain-containing protein 3 OS=Homo  
sapiens GN=RPUSD3 PE=1 SV=3  
MRAVLAREMDGRRVLGRFWSGWRRLGVRPVPEDAGFGTEARHQRPQSGCQRSGPLGDQ  
PFAGLLPKNLSREELVDALRAAVVDRKGPLVTLNKPQGLPVTGKPGELTLFSVLPELSQS  
LGLREQELQVVRASGKESGLVLLSSCPQTASRLQKYFTHARRAQRPTATYCAVTDGIPA  
ASEGKIQAALKLEHIDGVNLTVPVKAPSRKDILEGVKKTLSHFRVVATGSGCALVQLQPL



TVFSSQLQVHMLQLCPVLGDHMY SARVGTVLGQRFLPAENNKPQRQVLDEALLRRLHL  
TPSQAALPLHLHLHRLLLPGTRARDTPVELLAPLPYPFSRTLQCLGLRLQ

>sp|Q96CM3|RUSD4\_HUMAN RNA pseudouridylate synthase domain-containing protein 4 OS=Homo sapiens GN=RPUSD4 PE=1 SV=1

MAAPRWSASGPWIRNGGQCGSLFTLVSKPFCAAAASTAINAQRLAEKLRQKREQDTK  
KEPVSTNAVQRRVQEIVRFTRQLQRVHPNVLAKALTRGILHQDKNLVVINKPYGLPVHGG  
PGVQLCITDVLPIILAKMLHGKAEPLHLCHRLDKETTGMVLAWDKDMAHQVQELFRTRQ  
VVKYWAITVHVPMP SAGVVDIPIVEKEAQGGQQHHKMTLSPSYRMDGKMVKVRRSRNA  
QVAVTQYQVLSSTLSSALVELQPITGIKHQLRVHLSFGLDCPILGDHKYSDWNRLAPQKL  
SVGTLKKLGLEQSKARYIPLHLHARQLILPALGSGKEELNLVCKLPRFFVHSLHRLRLEM  
PNEDQENNEAKCLGAQ

>sp|Q96FQ6|S10AG\_HUMAN Protein S100-A16 OS=Homo sapiens GN=S100A16 PE=1 SV=1

MSDCYTELEKAVIVLVENFYKYVSKYSLVKNKISKSSFREMLQKELNHMLS DTGNRKAAD  
KLIQNLDANHDGRISFDEYWTLIGGITGPIAKLIEHEQEQSSS

>sp|Q13621|S12A1\_HUMAN Solute carrier family 12 member 1 OS=Homo sapiens GN=SLC12A1 PE=1 SV=2

MSLNSSNVFLDSVPSNTNRFQVSVINENHESSAAADDNTDPPHYEETSFGDEAQKRLRI  
SFRPGNQECYDNFLQSGETAKTDA SFHAYDSHTNTYYLQTFGHNTMDAVPKIEYYRNTGS  
ISGPKVNRPSLLEIHEQLAKNVA VTPSSADRVANGDIGDEQAENKEDDQAGVVKFGWV  
KGVLVRCMLNIWGVMLFIRLSWIVGEAGIGLVLIILLSTMVTSITGLSTSAIATNGFVR  
GGGAYYLISRSLGPEFGG SIGLIFAFANAVAVAMYVVGFAETVVDLLKESDSMMVDP TND  
IRIIGSITVVILLGISVAGMEWEAKAQVILLVILLIAIANFFIGTVIPSNNEKKS RGFEN  
YQASIFAENFGPRFTKGEGFFSVFAIFFPAATGILAGANISGDLED PQDAIPRGTM LAIF  
ITTVAYLGVAICVGACVVRDATGNMNDTIISGMNCNGSAACGLGYDFSRCRHEPCQYGLM  
NNFQVMSMVSGFPLITAGIFSATLSSALASLV SAPKVFQALCKDNIYKALQFFAKGYGK  
NNEPLRGYILTFLIAMAFILIAELNTI APIISNFFLASYALINFSCFHASYAKSPGWRPA  
YGIYNMWVSLFGAVLCCAVMFVINWWAAVITYVIEFFLYVYVTCKKPDVNWGSSTQALSY  
VSALD NALELTTVEDHVKNFRPQCIVLTGGPMTRPALLDITHAFTKNSGLCICCEVFVGP  
RKLCVKEMNSGMAKKQAWLIK NKIKAFYA AVAADC FRDGVRSL LQASGLGRMKPNTLVIG  
YKKNWRKAPLTEIENYVGI IHDADF EIGVVIVRISQGFDISQVLQVQEELERLEQERLA  
LEATIKDNECEEE SGGIRGLFKKAGKLNITKTPKKGDSINTSQSMHVGEFNQKLVEAST  
QFKKKQEKGTIDVWWLFDDGGLTLLIPYILTLRKKWKDCKLRIYVGGKINRIEEEKIVMA  
SLLSKFRIKFADIHIIGDINIRPNKESWKVFEEMIEPYRLHESCKDLTTAEKLR ETPWK  
ITDAELEAVKEKSYRQVRLNELLQEHSRAANLIVLSLPVARKGSISDLLYMAWLEILTKN  
LPPVLLVRGNHKNVLT FYS

>sp|P55017|S12A3\_HUMAN Solute carrier family 12 member 3 OS=Homo sapiens GN=SLC12A3 PE=1 SV=3

MAELPTTETPGDATLCSGRFTISTLLSSDEPSPPAAYDSSHPSHLTHSSTFCMRTFGYNT  
IDVVPTYEHYANSTQPGEPKVRPTLADLHSFLKQEGRHLHALAFDSRPSHEMTDGLVEG  
EAGTSSEKNPEEPVRFVGWVGVMIRCMLNIWGVILYLRLPWITAQAGIVLTWIIILLSVT  
VTSITGLSISAI STNGKVKSGGTYFLISRSLGPELGGSIGLIFAFANAVGVAMHTVGFAE  
TVRDLLQEYGAPIVDPINDIRIIAVVSVTVLLAISLAGMEWESKAQVLFFLVIMVSFANY  
LVGTLIPPS EDKASKGFFSYRADIFVQNLVPDWRGPDGTFFGMFSIFFPSATGILAGANI  
SGDLKDPAIAIPKGTLM AIFWTTISYLAISATIGSCVVRDASGV LNDTVTPGWGACEGLA

CSYGWNFTECTQQHSCHYGLINYQTMSMVSGFAPLITAGIFGATLSSALACLVSAAKVF  
QCLCEDQLYPLIGFFGKGYGKNKEPVRYLLAYAI AVAFIIIAELNTIAPIISNFFLCSY  
ALINFSCFHASITNSPGWRPSFQYYNKWAALFGAII SVVIMFLLTWAAALIAIGVVLFL  
LYVIYKKPEVNWGSVQAGSYNLALSYSVGLNEVEDHIKNYRPQCLVLTGPPNFRPALVD  
FVGTFTRNLSLMICGHVLIGPHKQRMPELQLIANGHTKWLNRKIKAFYSDVIAEDLRRG  
VQILMQAAGLGRMKPNILVVGFKKNWQSAHPATVEDYIGILHDAFDNFYGCVMRMREGL  
NVSKMMQAHINPVFDPAEDGKEASARVDPKALVKEEQATTIFQSEQGKKTIDIYWLFDG  
GLTLLIPYLLGRKRRWSKCKIRVFVGGQINRMDQERKAIISLLSKFRLGFHEVHILPDIN  
QNPRAEHTKRFEDMIAPFRLNDGFKDEATVNEMRRDCPWKISDEEITKNRVKSLRQVRLN  
EIVLDYSRDAALIVITLPIGRKGKCPSSLYMAWLETLSQDLRPPVILIRGNQENVLTFYC  
Q

>sp|Q9UP95|S12A4\_HUMAN Solute carrier family 12 member 4 OS=Homo sapiens GN=SLC12A4 PE=1  
SV=2

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YYDRNLALFEEELDIRPKVSSLLGKLVSYTNLTQGAKEHEEAESGEGTRRRAAEAPSMGT  
LMGVYLPCLQNIFGVILFLRLTWMVGTAGVLQALLIVLICCCCTLLTAISMSAIATNGVV  
PAGGSYFMISRSLGPEFGGAVGLCFYLGTTFAAAMYILGAIEILLTYIAPPAAIFYP  
SGAHDTSNATLNNMRVYGTIFLTFMTLVVFGVKYVNFASLFLACVIIISILSIYAGGIK  
SIFDPPVFPVCMLGNRTLSRDQFDICAKTAVVDNETVATQLWSFFCHSPNLTTDSCDPY  
FMLNNVTEIPGIPGAAAGVLQENLWSAYLEKGDIVEKHGLPSADAPSLKESLPLYVVAD  
IATSF TVLVGIFFPSTGTIMAGSNRSGDLRDAQSIPVGTILAIITTSLVYFSSVVLFG  
ACIEGV VLRDKYGDGVSRLNVVGTALWPSPWVIVIGSFFSTCGAGLQSLTGAPRLQAI  
AKDNIIP FLRVFGHGKVNGEPTWALLLTALIAELGILIASLDMVAPILSMFFLMCYL  
FVNLA CAVQTL LRTPNWRPRFKYHWALESFLGMSLCLALMFVSSWYYALVAMLIAGMI  
YKYIEYQGAEKE WGDGIRGLSLSAARYALLRLEEGPPHTKNWRPQLLVLLKLEDLH  
VKYPRLLTFASQLKAGKGLTIVGSVIQGSFLESYGEAAAEQTIKNMMEIEKVKGFCQV  
VASKVREGLAHLIQSCGLGMRHNSVVLGWPYGWRQSEDPRAWKTFIDTVRCTTAAHL  
ALLVPKNIAFYPSNHER YLEGHIDVWWIVHDGGMMLLPFLLRQHKVWRKCRMRIFT  
VAQMDDNSIQMKKDLAVFLY HLRLEAEVEVVMHNSDISAYTYERTLMMEQRSQMLR  
QMRLTKTEREREAQLVKDRHSAL RLESLSYDEEDES AVGADKIQMTWTRDKYMTET  
WDPSHAPDNFREL VHIKPDQSNVRRMHTAVKLENVIVTRSHDARLVLLNMPGPPRN  
SEGDENYMEFLEVLTEGLERVLLVRGGGREV ITIYS

>sp|Q13183|S13A2\_HUMAN Solute carrier family 13 member 2 OS=Homo sapiens GN=SLC13A2 PE=2  
SV=1

MATCWQALWAYRSYLIVFFVPILLPLPILVPSKEAYCAYAILMALFWCTEALPLAVTA  
LFPLILFPMMGIVDASEVAVEYLKDSNLLFFGGLLVAI AVEHWNLHKRIALRVLLIVGVR  
PAPLILGFMLVTAFLSMWISNTATSAMMVPIAHAVLDQLHSSQASSNVEEGSNNPTFELQ  
EPSPQKEVTKLDNGQALPVTSASSEGRAHLSQKHLHLTQCMSLCVCYSASIGGIATLTGT  
APNLVLQGGQINSLFPQNGNVNFASFWSFAFPTMIVLLLLAWLWLQILFLGFNFRKNFGI  
GEKMQEQQQAAYCVIQTTEHRLGPMTFAEKAISILFVILVLLWFTREPGFGLGWGNLAFP  
NAKGESMVSDGTVAIFIGIIMFIIIPSKFPGLTQDPENPGKLKAPLGLLDWKT V NQKMPWN  
IVLLGGGYALAKGSERSGLSEWLG NKLTP LQSV PAPAIAIILSLLVATFTECTSNVATT  
TIFLPILASMAQAICLHPLYVMLPCTLATSLAFMLPVATPPNAIVFSFGDLKVLDMARAG  
FLLNIIIGVLIIALAINSWGIPFLSLHSFPSWAQSNTTAQCLPSLANTTTPSP

>sp|Q8WWT9|S13A3\_HUMAN Solute carrier family 13 member 3 OS=Homo sapiens GN=SLC13A3 PE=1 SV=1

MAALAAAAKKVWSARRLLVLLFTPLALLPVVFALPPKEGRCLFVILLMAVYWCTEALPLS  
VTALLPIVLFPFMGILPSNKVCPQYFLDTNLFSLGLIMASAEWNLHRRIALKILMLV  
GVQPARLILGMMVTTSFLSMWLSNTASTAMMLPIANAILKSLFGQKEVRKDPSQSEENT  
AAVRRNGLHTVPTEMQFLASTEAKDHPGETEVPLDLPADSRKEDEYRRNIWKGF LISIPY  
SASIGGTATLTGTAPNLILLGQLKSFFPQCDEVNFGSWFIFAFPLMLLFLLAGWLWISFL  
YGGLSFRGWRKNKSEIRTNAEDRARAVIREEYQNLGPIKFAEQAVFILFCMFAILLFTRD  
PKFIPGWASLFNPGFLSDAVTGVAIVTILFFFPSQRPSLKWVDFKAPNTETEP LLTWKK  
AQETVPWNIILLGGGFAMAKGCEESGLSVWIGGQLHPLENVPPALAVLLITVVI AFFTE  
FASNTATIIIFLPVLAELAIRLVHPLYLMIPGTVGCSFAFMLPVSTPPNSIAFASGHLL  
VKDMVRTGLLMNLMGVLLLSLAMNTWAQTI FQLGTFPDWADMYSVNV TALPPTLANDTFR  
TL

>sp|P46059|S15A1\_HUMAN Solute carrier family 15 member 1 OS=Homo sapiens GN=SLC15A1 PE=2 SV=1

MGMSKSHSFFGYPLSIFFI VVNEFCERFSYYGMRAILILYFTNFISWDDNLSTAIYHTFV  
ALCYLTPILGALIADSWLGKFKTIVLSIVYTIGQAVTSVSSINDLTDHNDGTPDSL PV  
HVL SLIGLALIALGTGGIKPCVSAFGGDQFEEGQEKQRNRFFSIFYLAINAGSLLSTII  
TPMLRVQQCGIHSKQACYPLAFGVPAALMAVALIVFVLGSGMYKKFKPQGNIMGKVAKCI  
GFAIKNRFRHRSKAFPKREHWLDWAKEKYDERLISQIKMVTVMFLYIPLPMFWALFDQQ  
GSRWTLQATTMSGKIGALEIQPDQM QTVNAILIVIMVPIFDVLYPLIAKCGFNFTSLKK  
MAVGMVLASMAFVAAIVQVEIDKTLPVFPKGNEVQIKVLNIGNNTMNI SLPGEMVTLGP  
MSQTNAFMFTFDVNKLTRINISSPGSPVTAVTDDFKQGQRHTLLVWAPNHYQVVKDGLNQK  
PEKGENGIRFVNTFNELITITMSGKVYANISSYNASTYQFFPSGIGFTISSTEIPPQCQ  
PNFNTFYLEFGSAYTYIVQRKNDSCPEVKVFEDISANTVNMALQIPQYFLLTCGEVVFSV  
TGLEFSYSQAPS NMKSVLQAGWLLTVAVGNIIVLIVAGAGQFSKWAEYILFAALLLVVC  
VIFAIMARFYTYINPAEIEAQFDEDEKKNRLEKSNPYFMSGANSQKQM

>sp|Q8N697|S15A4\_HUMAN Solute carrier family 15 member 4 OS=Homo sapiens GN=SLC15A4 PE=1 SV=1

MEGSGGGAGERAPLLGARRAAAAAAGAFAGRRAACGAVLLTELLERAAFYGITSNLVL  
FLNGAPFCWEQAQASEALLLFMGLTYLGSPFGWLADARLGRARAILLSLALYLLGMLAF  
PLLAAPATRAALCGSARLLNCTAPGPDAAARCCSPATFAGLVVLGLGVATVKANITPFGA  
DQVKDRGPEATRRFFNWFYWSINLGAILSLGGIAYIQQNVSFVTGYAIPTVCVGLAFVVF  
LCGQSVFITKPPDGSAFTDMFKILTYSCCSQKRSGERQSN GEGIGVFQQSSKQSLFDSCK  
MSHGGPFTEEKVEDVKALVKIVPVFLALIPYWTVYFQM QTTYVLQSLHLRIPEISNITTT  
PHTLPAAWLTMFDAVLILLIPLKDKLVDPI LRRHGLLPSSLKRIAVGMFFVMCSAFAAG  
ILES KRNLNVKEKTINQ TIGNVVYHAADLSLWWQVPQYLLIGISEIFASIAGLEFAYSAA  
PKSMQSAIMGLFFFFSGVGSFVSGLLALVSIKAIGWSSHTDFGNINGCYLNYYFFLLA  
AIQGATLLFLIISVKYDHHRDHQRSRANGVPTSRRA

>sp|O60779|S19A2\_HUMAN Thiamine transporter 1 OS=Homo sapiens GN=SLC19A2 PE=1 SV=2

MDVPGPVSRRAAAAAATVLLRTARVRRECWFLPTALLCAYGFFASLRPSEPFLTPYLLGP  
DKNLTEREVFNEIYPVWTYSYLVLFPVFLATDYLRYPVLLQGLSLIVTWFMLLYAQG  
LLAIQFLEFFFYGIATATEIAYSYSIYSVVDLGM YQKVTSYCRSATLVGFTVGSVLGQILV  
SVAGWSLFSNLV ISLTCVSAFAVAWFLPMPQKSLFFHHIPSTCQRVNGIKVQNGGIVTD

TPASNHLPGWEDIESKIPLNMEEPVVEPEPKPDRLLVLKVLWNDFLMCYSSRPLLCSV  
WWALSTCGYFQVVNYTQGLWEKVMPSRYAAIYNGGVEAVSTLLGAVAVFAVGYIKISWT  
WGEMTSLFSLIIAAVYIMDTVGNIVWCYASYVVFRIIYMLLITITFQIAANLSMERY  
ALVFGVNTFIALALQTLTLIVVDASGLGLEITTQFLIYASYFALIAVVFLASGAVSVMK  
KCRKLEDPQSSSQVTS

>sp|Q5SY68|S1A7B\_HUMAN Protein S100-A7-like 2 OS=Homo sapiens GN=S100A7L2 PE=3 SV=1  
MNIPLGEKVMLDIVAMFRQYSGDDGRMDMPGLVNLTKENFPNFLSGCEKSDMDYLSNALE  
KKDDNKDKKVNYSFSLSGDITIDHHKIMHGVAPCSGGSQ

>sp|Q8N8I0|SAM12\_HUMAN Sterile alpha motif domain-containing protein 12 OS=Homo sapiens  
GN=SAMD12 PE=2 SV=2

MAVEALHCGLNPRGIDHPAHAEGIKLQIEGEGVESQSIKNKNFQKVPDQKGTPKRLQAEA  
ETAKSATVKLSKPVALWTQQDVCKWLKKHCPNQYQIYSESFQHDITGRALLRLTDKKLE  
RMGIAQENLRQHILQQVLQKLVREEVRNLQLLTQGTLLLPDGWMDGEIRRKTTLLLGQTG  
VRENLLLFLHRISIIENSIQI

>sp|Q6SPF0|SAMD1\_HUMAN Atherin OS=Homo sapiens GN=SAMD1 PE=1 SV=1

MAGPPALPPPETAATAAATAAASSAASPHYQEWILDTIDSLRSRKARPDLERICRMVRR  
RHGPEPERTRAELEKLIQRAVLRVSYKGSISYRNAARVQPPRRGATPPAPPRAPRGAPA  
AAAAAAPPPTPAPPPPPAPVAAAAAPARAPRAAAAAATAPPSGPAQPGPRAQRAAPLAAP  
PPAPAAPPAVAPPAGPRRAPPPAVAAREPPLPPPPQPPAPPQQQQPPPPQPQPPEGGAV  
RAGGAARPVSLREVRYLGGSGGAGGRLTRGRVQGLLEEEAAARGRLERTRLGALALPRG  
DRPGRAPPAASARPSRSKRGEERVLEKEEEEEDDEDEDEEDDVSEGSEVPESDRPAGAQ  
HHQLNGERGPPSAKERVKEWTPCGPHQGQDEGRGPAPGSGTRQVFSMAAMNKEGGTASVA  
TGPDSPSPVPLPPGKALPGADGTPFGCPPGRKEKPSDPVEWTVMDVVEYFTEAGFPEQA  
TAFQEQEIDGKSLLLMQRTDVLTLGLSIRLGPALKIYEHHIKVLQQGHFEDDDPDGFLG

>sp|Q8TEE9|SAP25\_HUMAN Histone deacetylase complex subunit SAP25 OS=Homo sapiens GN=SAP25  
PE=1 SV=2

MTPLAPWDPKYEAKAGPRPVWGANCSSGASFSGRTLCHPSFWPLYEAASGRGLRPVAPAT  
GHWNGQQAPPDAGFPVCCEDVFLSDPLLPRGQRVPLYLSKAPQQMMGSLKLLPPPPIMS  
ARVLPRPSPSRGPSTAWLSGPELIALTGLLQMSQGEPRPSSSAVGPPDHTSDPPSPCGSP  
SSSQGADLSLPQTPDTHCP

>sp|Q96BY9|SARAF\_HUMAN Store-operated calcium entry-associated regulatory factor OS=Homo  
sapiens GN=SARAF PE=1 SV=1

MAAACGPGAAGYCLLLGLHLFLLTAGPALGWNDPDRMLLRDVKALTLHYDRYTTSRRLDP  
IPQLKCVGGTAGCDSYTPKVIQCQNKGWGDYDVQWECKTDLDIAYKFGKTVVSCGEYESS  
EDQYVLRGSCGLEYNLDYTELGLQKLKESGKQHGFASFSDYYKWSADSCNMSGLITIV  
VLLGIAFVVYKFLSDGQYSPPPYSEYPPFSHRYQRFTNSAGPPPPGFKSEFTGPQNTGH  
GATSGFGSAFTGQQGYENSGPGFWTGLGTGILGYLFGSNRAATPFSDSWYYPSYPPSY  
GTWNRAYSPLHGGSGSYSVCSNSDTKTRTASGYGGTRRR

>sp|Q52WX2|SBK1\_HUMAN Serine/threonine-protein kinase SBK1 OS=Homo sapiens GN=SBK1 PE=2  
SV=1

MSVGCPEPEPPRSLTCCGPGTAPGPGAGVPLLTEDMQALTLRTLAASDVTKHYELVRELG  
KGTYGKVDLVVYKGTGTMALKFVNKSKTKLKNFLREVSIITNSLSSPFIKVFDDVFET  
EDCYVFAQEYAPAGDLFDIIPPQVGLPEDTVKRCVQQLGLALDFMHGRQLVHRDIKENV  
LLFDRECRRVKLADFGMTRRVGCRVKRVSGTIPYTAPEVCQAGRADGLAVDTGVDVWAFG

VLIFCVLTGNFPWEAASGADAFEEFVVRWQGRPLPGLPSQWRRFTEPALRMFQRLLEP  
ERRGPAKEVFRFLKHELTSERRRPSHRARKPPGDRPPAAGPLRLEAPGPKRTVLTESG  
SGSRPAPPVAVGSVPLPVPVPPVPPVPPVPEPLAPQGPPGRTDGRADKSKGQVVLATAI  
EICV

>sp|Q9Y289|SC5A6\_HUMAN Sodium-dependent multivitamin transporter OS=Homo sapiens  
GN=SLC5A6 PE=2 SV=2

MSVGVSTSAPLSPTSGTSGVMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGELL  
MADRMGCLPVALSLLATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPV  
FYRLHLTSAYEYELERFNKTVRVCGTVTFIFQMVIYMGVVLYAPSLALNAVTFGDLWLSV  
LALGIVCTVYTALGGLKAVIWTDFVQTLVMFLGQLAVIIVGSAKVGGLGRVWAVASQHGR  
ISGFELDPDPFVRHTFWTLAFGGVFMMLSLYGVNQAQVQRYLSSRTEKAAVLSCYAVFPF  
QQVSLCVGCLIGLVMFAYYQEYPMISIQQAAAPDQFVLYFVMDLLKGLPGLPGLFIACLF  
SGSLSTISSAFNSLATVTMEDLIRPWFPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQM  
GPVLQAAISIFGMVGGPLLGLFCLGMFFPCANPPGAVVGLLAGLVMAFWIGIGSIVTSMG  
SSMPPSPSNGSSFSLPTNLTVATVTTLMPLTTFSKPTGLQRFYSLSYLWYSAHNSTTVIV  
VGLIVSLLTGRMRGRSLNPATIIYPVLPKLLSLLPLSCQKRLHCRSYGQDHLDTGLFPEKP  
RNGVLGDSRDKEAMALDGTAYQSSSTCILQETSL

>sp|P31641|SC6A6\_HUMAN Sodium- and chloride-dependent taurine transporter OS=Homo sapiens  
GN=SLC6A6 PE=1 SV=2

MATKEKLQCLKDFHKDILKPSPGKSPGTRPEDEAEGKPPQREKWSSKIDFVLSVAGGFVG  
LGNVWRFPYLCYKNGGGAFLIPYFIFLFGSGLPVFFLEIIIGQYTSEGGITCWEKICPLF  
SGIGYASVVIVSLLNVYYIVILAWATYYLFQSFQKELPWAHCNHSWNTPHCMEDTMRKNK  
SVWITISSTNFTSPVIEFWERNVLSLSPGIDHPGSLKWDALCLLLVWLVCFFCIWKGVR  
STGKVYFTATFPFAMLLVLLVRGLTLPGAGAGIKFYLYPDITRLEDQPQWIDAGTQIFF  
SYAICLGAMTSLGSYNKYKNSYRDCMLLGCLNSGTSFVSGFAIFSILGFMAQEQQVDIA  
DVAESGPGLAFIAYPKAVTMMPLPTFWSILFFIMLLGLDSQFVEVEGQITSLVDLYPS  
FLRKGYRREIFIAFVCSISYLLGLTMVTEGGMVVFQLFDYYAASGVCLLWVAFFECFVIA  
WIYGGDNLYDGIEMIGYRPGPWMKYSWAVITPVLVCGCFIFSLVKYVPLTYNKTYVYPN  
WAIGLGWSLALSSMLCVPLVIVIRLCQTEGPFLVRVKYLLTPREPNRWAVEREGATPYN  
RTVMNGALVKPTHIIVETMM

>sp|Q99884|SC6A7\_HUMAN Sodium-dependent proline transporter OS=Homo sapiens GN=SLC6A7  
PE=2 SV=2

MKKLQGAHLRKPVTPDLLMTPSDQGDVDLDVDFAAHRGNWTGKLDLFLSCIGYCVGLGNV  
WRFYPYRAYTNGGGAFLVPYFLMLAICGIPLFFLELSLGQFSSLGPLAVWKISPLFKGAGA  
AMLLIVGLVAIYYNMIAYVLFYLFASLTSPLWEHCGNWWNTELCLEHRVSKDGNALP  
LNLCTVSPSEEWYSRVYLHIQGSQGIGSPGEIRWNLCLCLLLAWVIVFLCILKGVKSSG  
KVYFTATFPYLILLMLLVRGVTLPGAWKGIQFYLTQPQHLLSSKVWIEAALQIFYSLG  
VGFGGLLTFASYNTFHQNIYRDTFIVTLGNAITSILAGFAIFSVLGYSQELGVPVDQVA  
KAGPGLAFVVYPQAMTMLPLSPFWSFLFFFMLLTLGLDSQFAFLETIVTAVTDEFPPYLR  
PKKAVFSGLICVAMLYMGLILTTDGGMYWLVLDDYSASFGLMVVVITCLAVTRVYGIQ  
RFRCDIHMMGLGFKPLYFRACWLFLSPATLLALMVYSIVKYQPSEYGSYRFPWAELLGI  
LMGLLSCLMIPAGMLVAVLREEGSLWERLQQASRPAMDWGPSLEENRTGMVATLAGSQS  
PKPLMVHMRKYGGITSFENTAIEVDREIAEEEEESMM

>sp|Q9UQR0|SCML2\_HUMAN Sex comb on midleg-like protein 2 OS=Homo sapiens GN=SCML2 PE=1 SV=1

MGQTVNEDSMDVKKENQEKTPQSSTSSVQRDDFWEEYLKETGSISAPSECFRQSQIPPV  
NDFKVGMKLEARDPRNATSVCIATVIGITGARLRRLDGSNDRNDFWRLVDSPDIQPVGT  
CEKEGDLQPPQGYQMNSTSSWPMFLKTLNGSEMASATLFKKEPPKPLNNFKVGMKLEA  
IDKKNPYLICPATIGDVKGDEVHITFDGWSGAFDYWCKYDSRDIFPAGWCRLTGDVLQPP  
GTSVPIVKNIAKTESSPSEASQHSMPQKTTLILPTQQVRRSSRIKPPGPTAVPKRSS  
VKNITPRKKGPNSGKKEKPLVICSTSAASLKSLTRDRGMLYKDVASGPCKIVMSTVCVY  
VNKHGNGFPHLDPKRIQQLPDHFPGPVPVNLRRIVQACVDCALETKTVFGYLPDNRGG  
EVITASFDGETHSIQLPVNSASFALRFLENFCHSLQCDNLLSSQPFSSSRGHTHSSAEH  
DKNQSAKEDVTERQSTKRSPQQTVPYVVPLSPKLPKTKEYASEGEPLFAGGSAIPKEENL  
SEDSKSSSLNSGNYLNPACRNPYIHTSVSQDFSRSVPGTSSPLVGDISPSSPHEVKF  
QMQRKSEAPSYIAVPDPSVLKQGFSGDPSTWSVDEVIQFMKHTDPQISGPLADLFRQHEI  
DGKALFLLKSDVMMKYMGLKLGPAKLCYYIEKLKEGKYS

>sp|P35498|SCN1A\_HUMAN Sodium channel protein type 1 subunit alpha OS=Homo sapiens GN=SCN1A PE=1 SV=2

MEQTVLVPPGPDSENFFTRESLAAIERIAEEKAKNPKPKDKDDENGPKPNSDLEAGKN  
LPFIYGDIPPEMVSEPLEDLDPYYINKKTFIVLNKGKAIFFRSATSALYILTPFNPLRKI  
AIKILVHSLFSMLIMCTILTNCVFMSTNSPPDWTKNVEYFTGTGIYTFESLIKIIARGFCL  
EDFTFLRDPWNWLDFTVITFAYVTEFVDLGNVSALRTFRVLRALKTISVIPGLKTIVGAL  
IQSVKLLSDVMILTVFCLSVFALIGLQLFMGNLRNKCIQWPPTNASLEEHSIEKNITVNY  
NGTLINETVFEEFDWKSIIQDSRYHYFLEGFLDALLCGNSSDAGQCPEGYMCVKAGRNPY  
GYTSFDTFSWAFLSLFRLMTQDFWENLYQLTLRAAGKTYMIFFFVLVIFLGSFYLINLILA  
VVAMAYEEQNQATLEEAEQKEAEFQQMIEQLKKQQEAAQQAATATASEHSREPSAAGRLS  
DSSSEASKLSKSAKERRNRRKKRKQKEQSGGEEKDEDEFQKSESEDSIRRKGRFSIEG  
NRLTYEKRYSSPHQSLLSIRGSLFSPRRNSRTSLFSFRGRAKDVGSENDFADEHSTFED  
NESRRDSLFPVRRHGERRNSNLSQTSRSSRLAVFPANGKMHSTVDCNGVVSLVGGPSVP  
TSPVGQLLPEVVIDKPATDDNGTTTETEMRKRSSSFHVSMDFLEDPQRQRAMSIIASIL  
TNTVEELEESRQKCPWCYKFSNIFLIWDCSPYWLKVKHVNLVVMDFVDLAIIICIVL  
NTLFMAMEHYPMTHFNVLTVGNLVFTGIFTAEMFLKIIAMDPIYYFQEGWNIFDGFIV  
TSLSLVELGLANVEGLSVLRSFRLRLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAII  
VFIFAVVGMQLFGKSYKDCVCKIASDCQLPRWHMNDFFHSFLIVFRVLCGEWETMWDCM  
EVAGQAMCLTVFMMVMVIGNLVVLNLFLALLSSFSADNLAATDDDNEMNQLIAVDRMH  
KGVAYVKRKIYEFIQQSFIKQKILDEIKPLDDLNNKDCSMNHTAEIGKDLDYLKDVN  
GTTSGIGTGSSVEKYIIDESDYMSFINNPSLTVTVPIAVGESDFENLTEDFSSESLEE  
SKEKLNESSSSEGSTVDIGAPVEEQPVVEPEETLEPEACFTEGCVQRFKCCQINVEEGR  
GKQWWNLRRTCFRIVEHNWFETFIVFMILLSSGALAFEDIYIDQRKTIKTMLEYADKVFT  
YIFILEMLLKWVAYGYQTYFTNAWCWLDLIVDVSLVSLTANALGYSELGAIKSLRTLRA  
LRPLRALSRFEGMRVVNALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYHCINTT  
TGDRFDIEDVNNHTDCLKLIERNETARWKNVKNFNDNVGFGYLSLLQVATFKGWMIMYA  
AVDSRNVELQPKYEEESLYMYLYFVIFIIFGSFFTLNLFIGVIIDNFNQKKKFGGQDIFM  
TEEQKKYYNAMKKLGSKKPQKPIPRPGNKFQGMVDFVTRQVFDISIMILICLNMVTMMV  
ETDDQSEYVTTILSRINLVFIVLFTGECVLKLISLRHYFTIGWNIFDFVVVILSIVGMF  
LAELIEKYFVSPTLFRVIRLARIGRILRLIKGAKGIRTLFLALMMSLPALFNIGLLFLV

MFIIAIFGMSNFAYVKREVGIDDMFNFETFGNSMICLFQITTSAGWDGLLAPILNSKPPD  
CDPNKVNPGSSSVKGDGCGNPVGIFFFVSYIIISFLVVNMYIAVILENFSVATEESAEP  
SEDDFEMFYEVWEKFDPDATQFMFEKLSQFAAALEPPLNLPQPNKLQLIAMDLPMVSGD  
RIHCLDILFAFTKRVLGESGEMDALRIQMEERFMASNP SKVSYQPITTTLKRKQEEVSAV  
IIQRAYRRHLLKRTVKQASFTYNNKIKGGANLLIKEDMIIDRINENSITEKDTLTMSTA  
ACPPSYDRVTKPIVEKHEQEGKDEKAKGK

>sp|Q8IWT1|SCN4B\_HUMAN Sodium channel subunit beta-4 OS=Homo sapiens GN=SCN4B PE=1 SV=1  
MPGAGDGGKAPARWLGTGLLGLFLLPVTLSEVSVGKATDIYAVNGTEILLPCTFSSCFG  
FEDLHFRWYTNSSDAFKILIEGTVKNEKSDPKVTLKDDDRITLVGSTKEKMNNISIVLRD  
LEFSDTGKYTCHVKNPKENNLQHATIFLQVVDRL EEDNTVTLIILAVVGGVIGLLILI  
LLIKKLIIFILKKTREKKKECLVSSSGNDNTENGLPGSKAEKPPSKV

>sp|Q9Y5Y9|SCNAA\_HUMAN Sodium channel protein type 10 subunit alpha OS=Homo sapiens  
GN=SCN10A PE=1 SV=2

MEFPIGSLETNNFRFTPESLVEIEKQIAAKQGTTKAREKHREQDQEEKPRPQLDLKAC  
NQLPKFYGELPAELIGEPLEDLDPFYSTHRTFMVLNKGRTISRFSATRALWLFSPFNLR  
RTAIKVSVHSWFSLFITVTILVNCVCMTRTDLPEKIEYVFTVIYTFEALIKILARGFCLN  
EFTYLRDPWNWLD FSVITLAYVGT AIDLRGISGLRTRFVLRALKTVSVIPGLKVI VGALI  
HSVKKLADVTILTIFCLSVFALVGLQLFKGNLKNKCVKNDMAVNETTNYSSHRKPDIIYN  
KRGTSDDLCCGNGSDSGHCPDGYICLKTSNPDNFNYTSFDSFAWAFSLFRLMTQDSWER  
LYQQTLRTSGKIYIMIFFVLVIFLGSFYLVNLI LAVVTMAYEEQNQATDEIEAKEKKFQE  
ALEMLRKEQEVLAALGIDTTSLSHSHNGSPLTSKNASERRHRIKPRVSEGSTEDNKS PRSD  
PYNQRRMSFGLGLASGKRRASHGSVFHFRSPGRDISLPEGVTDDGVFPGDHESHRGSLLLG  
GGAGQQGPLRSPPLQPSNPDSRHGEDEHQPPPTSELAPGAVDVSAFDAGQKKTFLSAEY  
LDEPFRAQRAMSVVSIITSVLEEELEESEQKCPPCLTSLSQKYL IWDCCPMWVKLKITLFG  
LVTDPFAELTITLCIVVNTIFMAMEHHGMSPTFEAMLQIGNIVFTIFFTAEMVFKIIAFD  
PYYYFQKKWNIFDCIIVTVSLLELGVAKKGSLSVLRFSRLLRVFKLAKSWPTLNTLIKII  
GNSVGALGNLTIIILAIIVFVFALVGKQLLGENYRNNRKNISAPHEDWPRWHMHDFH SFL  
IVFRILCGEWIENMWACMEVGKSIICLILFLTVMVLGNLVVLNLFIALLLNSFSADNLTA  
PEDDGEVNNLQVALARIQVFGHRTKQALCSFFSRSCPFPQPKAEPELVVKLPLSSSKAEN  
HIAANTARGSSGGLQAPRGPRDEHSDFIANPTVWVSVPIAEGESDLDLEDDGGEDAQSF  
QQEVIPKGQQEQLQVERCGDHLTPRSPGTGTSS EDLAPSLGETWKDESVPQVPAEGVDD  
TSSEGSTVDCLDPEEILRKIPELADDLEEPDDCFTEGCIRHCPCKLDTTKSPWDVGWQ  
VRKTCYRIVEHSWFESFII FMILLSSGSLAFEDYYLDQKPTVKALLEYTD RVFTFIFVFE  
MLLKWVAYGFKKYFTNAWCWLD FLIVNISLISLTAKILEYSEVAPIKALRTLRLRPLRA  
LSRFEGRMRVVVDALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFWRCINYTDGEFSL  
VPLSIVNNKSDCKIQNSTGSFFWVNVKVNFDNVAMGYLALLQVATFKGWM DIMYAAVDSR  
EVNMQPKWEDNVMYLYFVIFII FGGFFTLNLFVGVIIDNFNQKKKLGQDIFMTEEQK  
KYYNAMKKLGSKKPQKPIPRPLNKFQGGVFVDIVTRQAFDITIMVLICLNMITMMVETDDQ  
SEEKTKILGKINQFFVAVFTGECVMKMFALRQYYFTNGWNVDFIVVLSIASLIFSAIL  
KSLQSYFSPTLFRVIRLARIGRILRLIRAAKGIRTLLFALMMSLPALFNIGLLFLVMFI  
YSIFGMSSFPVHRWEAGIDDMFNFQTFANSMCLCFQITTSAGWDGLLSPILNTGPPYCDP  
NLPSNGTRGDCGSPAVGIIFFTTYIIISFLIMVNM YIAVILENFNVATEESTEPLSEDD  
FDMFYETWEKFDPEATQFITFSALSDFADTL SGPLRIPKPNRNILIQMDLPLVPGDKIHC  
LDILFAFTKNVLGESGELDSLKANMEEKFMATNLSKSSYEPIATTLRWKQEDISATVIQK

AYRSYVLHRSMALNTPCVPRAEEEEASLPDEGFVAFTANENCVLDPKSETASATSFPPS  
YESVTRGLSDRVNMRMTSSSIQNEDEATSMELIAPGP

>sp|075880|SCO1\_HUMAN Protein SCO1 homolog, mitochondrial OS=Homo sapiens GN=SCO1 PE=1  
SV=1

MAMLVLVPGRVMRPLGGQLWRFLPRGLEFWGPAEGTARVLLRQFCARQAEAWRASGRPGY  
CLGTRPLSTARPPPPWSQKPGDSTRPSKPGPVSWKSLAITFAIGGALLAGMKHVKKEKA  
EKLEKERQRHIGKPLLGGPFSLTHTGERKTDKDYLGQWLLIYFGFTHCPDVCPEELEKM  
IQVVEIDSITTLPDLTPLFISIDPERDTKEAITYVKEFSPKLVGLGTREEVDQVARA  
YRVYSPGPKDEDEDYIVDHTIIMYLIGPDGEFLDYFGQNKRKGEIAASIATHMRPYRKK  
S

>sp|Q8WVN6|SCTM1\_HUMAN Secreted and transmembrane protein 1 OS=Homo sapiens GN=SECTM1  
PE=1 SV=2

MQTCPLAFPGHVSQALGTLFLAASLSAQNEGWDSPICTEGVVSVSWGENTVMSCNISNA  
FSHVNIKLRAHGQESAIFNEVAPGYFSRDGWQLQVQGGVAQLVIKGARDSHAGLYMWHLV  
GHQRNNRQVTLEVSQAEPQSAPDTGFWPVPVAVTAVFILLVALVMFAWYRCRCSQQRREK  
KFFLLEPQMKAALRAGAQQGLSRASAELWTPDSEPTPRPLALVFKPSPLGALELLSPQP  
LFPYAADP

>sp|Q8IX30|SCUB3\_HUMAN Signal peptide, CUB and EGF-like domain-containing protein 3  
OS=Homo sapiens GN=SCUBE3 PE=1 SV=1

MGSGRVPGLCLLVLLVHARAAQYSKAAQDVDECVEGTDNCHIDAICQNTPRSYKCICKSG  
YTGDGKHCKDVDECEREDNAGCVHDCVNIPGNYRCTCYDGFHLAHDGHNCCLDVDECAEGN  
GGCQQSCVNMMSYECRCREGFFLSDNQHTCIQRPEEGMNCMNKHGCAHICRETPKGGI  
ACECRPGFELTKNQDCKLTCNYNGGCQHTCDDTEQGPRCGCHIKFVLHTDGKTCIETC  
AVNNGGCDSKCHDAATGVHCTCPVGFMLQPDRKTCKDIDECRLNNGGCDHICRNTVGSFE  
CSCKKGKYLINERNQDIDECFDRDTCDHICVNTPGSFQCLCHRGYLLYGITHCGDVDE  
CSINRGGCRFGCINTPGSYQCTCPAGQGRLHWNGKDCTEPLKCQSPGASKAMLSNRSRG  
KKDTCALTCPSRARFLPESENGFTVSCGTPSPRAAPARAGHNGNSTNSNHCHEAAVLSIK  
QRASFKIKDAKRLHLRNKGKTEEAGRITGPGGAPCSECQVTFIHLKCDSSRKKGRRAR  
TPPGKEVTRLTLEAEVRAEETTASGLPCLRQRMERRLKGSLKMLRKSINQDRFLLRL  
AGLDYELAHKPGLVAGERAPEMESCRPGQHRAGTKCVSCPQGTYYHGQTEQCVPCPAGTF  
QEREGQLSCDLCPSDAHGPLGATNVTTCAQCQPPGQHSVDGFKPCQPCPRGTYQPEAGR  
TLCFPCGGGLTTKHEGAISFQDCDTKVQCSPGHYYNTSIHRCIRCAMGSYQPDFRQNFCS  
RCPGNTSTDFDGSTSVAQCKNRQCGGELGEFTGYIESPNYPGNYPAGVECIWNINPPPKR  
KILIVVPEIFLPESEDCGDLVLRKNSSPSSITTYETCQTYERPIAFTARSRKLWINFKT  
SEANSARGFQIPYVYDEDYEQLVEDIVRDGRLYASENHQEILKDKKLKAFFEVL AHPQ  
NYFKYTEKHKEMLPKSFIKLLRSKVSSFLRPYK

>sp|Q7RTU7|SCX\_HUMAN Basic helix-loop-helix transcription factor scleraxis OS=Homo  
sapiens GN=SCX PE=3 SV=1

MSFATLRPAPPGRYLYPEVSPLSEDEDRGSDSSGSDEKPCRVAARCGLQGARRRAGGRR  
AGGGGPGGRPGREPRQRHTANARERDRTNSVNTAFTALRTLIPTEPADRKLSKIETLRLA  
SSYISHLGNVLLAGEACGDGQPCHS GPAFFHAARAGSPPPPPPPPPARDGENTQPKQICT  
FCLSNQRKLSKDRDRKTAIRS

>sp|P48061|SDF1\_HUMAN Stromal cell-derived factor 1 OS=Homo sapiens GN=CXCL12 PE=1 SV=1  
MNAKVVVVLVLVTALCLSDGKPVSLSYRCPCRFFESHVARANVKHLKILNTPNCALQIV



ARLKNNNRQVCIDPKLKWIEYLEKALNKRFBK

>sp|O95810|SDPR\_HUMAN Serum deprivation-response protein OS=Homo sapiens GN=SDPR PE=1 SV=3

MGEDAAQAEKFQHPGSDMRQEKPSSPSPMPSSSTPSPSLNLGNTTEEAIRDNSQVNAVTVLT  
LLDKLVNMLDAVQENQHKEQRIISLEGSVKGIQNDLTKLSKYQASTSNTVSKLLEKSRK  
VSAHTRAVKERMDRQCAQVKRLNHAQLLRNHFVKLIFQEENEIPASVFKQPVSGAV  
EGKEELPDENKSLEETLHTVDLSSDDLPHDEEALEDSAEKVEESRAEKIKRSSLKKVD  
SLKKAFFSRQNIKKMNLGKTIIVSVERREKIKKSLTSNHQKISSGKSSPFKVSPLTFGRK  
KVREGESHAENETKSEDLPSSEQMPNDQEEESFAEGHSEASLASALVEGEIAEEAAEKAT  
SRGSNSGMDSNIDLTIVEDEEEESVALEQAQKVRYEGSYALTSEEAEERSDGDVPQPAVLQ  
VHQT

>sp|Q92737|RSLAA\_HUMAN Ras-like protein family member 10A OS=Homo sapiens GN=RASL10A PE=1 SV=1

MGGSLRVAVLGAPGVGKTAIIIRQFLFGDYPHRPTDGPRLYRPAVLDDGAVYDLSIRDG  
DVAGPGSSPGPEEWPDAKDWLQDQDAFVLVDICSPDSFDYVKALRQRIAEATPAGAP  
EAPILVVGKRDQRRLRFGPRRALAALVRRGWRCGYLECSAKYNWHVLRFLFRELLRCALV  
RARAHPALRLQGALHPARCSLM

>sp|Q9BPW5|RSLBB\_HUMAN Ras-like protein family member 11B OS=Homo sapiens GN=RASL11B PE=2 SV=1

MRLIQNMCTIAEYPAPGNAAASDCCVGAAGRRLVKIAVVGASGVGKTALVVRFLTKRFIG  
DYERNAGNLYTRQVQIEGETLALQVQDTPGIQVHENSLSCEQLNRCIRWADAVVIVFSI  
TDYKSYELISQLHQHVQQLHLGTRLPVVVVANKADLLHIKQVDPQLGLQLASMLGCSFYE  
VSVSENYNDVYSAFHVLCKEVSHKQQPSSTPEKRRTSLIPRPKSPNMQDLKRRFKQALSA  
KVRTVTSV

>sp|Q9Y676|RT18B\_HUMAN 28S ribosomal protein S18b, mitochondrial OS=Homo sapiens GN=MRPS18B PE=1 SV=1

MAASVLNTVLRRLPMLSLFRGSHRVQVPLQTLCTKAPSEEDSLSSVPISPYKDEPWKYLE  
SEEQERYGSRPVWADYRRNHKGGVPPQRTKTCIRRNKVVGNPCPICRDHKLHVDFRNV  
KLLEQFVCAHTGIIFYAPYTGVCVKQHKRLTQAIQKARDHGLLIYHIPQVEPRDLDFSTS  
HGAVSATPPAPTIVSGDPWYPWYNWKQPPERELSRLRRLYQGHLEESGPPPEMPPKMP  
RTPAEASSTGQTGPQSAL

>sp|P08579|RU2B\_HUMAN U2 small nuclear ribonucleoprotein B' OS=Homo sapiens GN=SNRPB2 PE=1 SV=1

MDIRPNHTIYINNMDKIKKEELKRSYALFSQFGHVVDIVALKTMKMRGQAFVIFKELG  
SSTNALRQLQGPFYGYKPMRIQYAKTDSDIISKMRGTFADKEKKKKAKTVEQTATTT  
NKKPGQGTPNSANTQGNSTPNPQVPDYPPNYILFLNNLPEETNEMMLSMLFNQFPGFKEV  
RLVPGRHDIAFVEFENDGQAGAARDALQGFKITPSHAMKITAYKK

>sp|Q96T51|RUFY1\_HUMAN RUN and FYVE domain-containing protein 1 OS=Homo sapiens GN=RUFY1 PE=1 SV=2

MADREGGCAAGRGRELEPELEPGPGPSALEPGEEFEIVDRSQLPGPGDLRSATRPRAAE  
GWSAPILTLARRATGNLSASCGSALRAAAGLGGGDSGDGTARAASKCQMMEERANLMHMM  
KLSIKVLLQSALSLSGRSLDADHAPLQQFFVMEHCLKHGLKVKSFIGQNKSFSGPLELV  
EKLCEASDIATSVRNLPKLTAVGRGRAWLYALMQKKLADYLVKLVLDNKHLLSEFYEP  
EALMMEEEGMVIVGLLVGLNVLDANLCLKGEDLDSQVGVIDFSLYLKVDVQDLGGKEHER

ITDVLQKNYVEELNRHLSCTVGLQTKIDGLEKTNSKLQEELSAATDRICSLQEEQQQL  
REQNELIRERSEKSVEITKQDTKVELETYKQTRQGLDEMYSDVWKQLKEEKKVRLELEKE  
LELQIGMKTEMEIAMKLEKDTHEKQDTLVALRQQLQEEVKAINLQMFHKAQNAESSLQKQ  
NEAITSFEGKTNQMSSMKMEERLQHSEARQGAERSHKLQELGGRIGALQLQLSQL  
HEQCSSLEKELKSEKEQRQALQRELQHEKDTSSLLRMELQQVEGLKKELRELQDEKAELQ  
KICEEQEQALQEMGLHLSQSKLMEDIKEVNQALKGHAWLKDDEATHCRQCEKEFSISR  
KHHCRCNGHIFCNTCSSNELALPSYPKPVRCDSCHTLLQRCSTAS

>sp|Q8WXA3|RUFY2\_HUMAN RUN and FYVE domain-containing protein 2 OS=Homo sapiens GN=RUFY2  
PE=1 SV=2

MGGDCLGLGSGRGRHGNAPPPLFRPVPARVLRHSGRGLEVPRRPGARTGPATKDPTAVER  
ANLLNMAKLSIKGLIESALSFGRTLDSYPLQQFFVVMHCLKHGLKVRKSFLSYNKTI  
WGPLELVEKLYPEAEEIGASVRDLPGLKTPLGRARAWRLALMQKMMADYLRLIIQRDL  
LSEFYEYHALMMEEGAVIVGLLVGLNVIDANLCVKGEDLDSQVGVIDFSMYLKNEEDIG  
NKERNVQIAAILDQKNYVEELNRQLNSTVSSLHSRQVDSLEKSNTKLIIELAIAKNNIIKL  
QEEHQQLRSENKILMKTQQHLEVTKVDVETELQTYKHSRQGLDEMYNEARRQLRDESQL  
RQDVENELAVQVSMKHEIELAMKLEKDIHEKQDTLIGLRQQLQEEVKAINIEMYQKLQGS  
EDGLKEKNEIIARLEETNKITAAMRQLEQLQQAQKAQMEAEDEDEKYLQECLSKSDSL  
QKQISQKEKQLVQLETDLKIEKEWRQTLQEDLQKEKDALSHLRNETQQIIISLKKEFLNLQ  
DENQQLKKIYHEQEALQELGNKLSSESKLIEDIKEANKALQGLVWLKDEATHCKLCEK  
EFSLSKRKHHCRCNGEIFCNACSDNELPLPSSPKPVRCDSCHALLIQRCSNLP

>sp|P19793|RXRA\_HUMAN Retinoic acid receptor RXR-alpha OS=Homo sapiens GN=RXRA PE=1 SV=1

MDTKHFLPLDFSTQVNSSLTPTGRGSMAAPSLHPSLGPGLGSPGQLHSPISTLSSPING  
MGPPFSVISSPMGPHSMVPTTPTLGFSTGSPQLSSPMNPVSSSEDIKPLGLNGVLKVP  
AHPSGNMASFTKHICAICGRSSGKHVGYSCEGCKGFFKRTVRKDLTYTCRDNKDCLID  
KRQRNRCQYCRYQKCLAMGMKREAVQEERQRGKDRNENEVESTSSANEDMPVERILEAEL  
AVEPKTETYVEANMGLNPSSPNPVTNICQAADKQLFTLVEWAKRIPHSELPLDDQVIL  
LRAGWNELLIASFSHRSIAVKDGILLATGLHVHRNSAHSAGVGAI FDRVLTELVS KM RDM  
QMDKTELGCLRAIVLFPNPSKGLSNPAEVEALREKVYASLEAYCKHKYPEQPGRFAKLLL  
RLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHQMT

>sp|Q15413|RYR3\_HUMAN Ryanodine receptor 3 OS=Homo sapiens GN=RYR3 PE=1 SV=3

MAEGGEGGEDEIQFLRTEDEVVLQCIATIHKEQRKFCLAAEGLGNRLCFLEPTSEAKYIP  
PDLVCVNFVLEQSLSVRALQEMLANTGENGGEGAAQGGGHRTLLYGHAVLLRHSFGMYL  
TCLTTSRSQTDKLAFDVGLREHATGEACWWTIHPASKQRSEGEKVRIGDDLILSVSSER  
YLHLSVSNGNIQVDASFMTLWNVHPTCSGSSIEEGYLLGGHVRLFHGHDECLTIPSTD  
QNDSQHRRIFYEAGGAGTRARSLWRVEPLRISWGSNIRWGQAFRLRHLTTGHYALTED  
QGLILQDRAKSDTKSTAFSFRASKELKEKLDSSHKRDI EGMGVPEIKYGDSVCFVQHIAS  
GLWVTYKAQDAKTSRLGPLKRKVLHQEGHMDGLTLQRCQREESQAARIIRNTTALFSQ  
FVSGNNRTAAPITLPIEEVLQTLQDLIAYFPPEEEMRHEDKQNKLRSLKNRQNLFKKEG  
MLALVLNCIDRLNVYNSVAHFAGIAREESGMAWKEILNLLYKLLAALIRGNRNCAQFSN  
NLDWLISKLDRELESSGILEVLHCILTESPEALNIIAEGHIKSIISLLDKHGRNHKVLDI  
LCSLCLCNGVAVRANQNLCIDNLLPRRNLLQTRLINDVTSIRPNIFLGVAEGSAQYKKW  
YFELIIDQVDPFLTAEPTHLRVGWASSSGYAPYPGGGEGWGGNGVGGDLLSYGFDGLHLW  
SGRIPRAVASINQHLLRSDDVVSCCLDLGVPSISFRINGQPVQGMFENFNTDGLFFPVMS  
FSAGVKVRFLMGGRHGEFKFLPPSGYAPCYEALLPKEKMRLEPVKEYKRDADGIRDLLGT

TQFLSQASFIPCPVDTSQVILPPHLEKIRDRLAENIHELWGMNKIELGWTFGKIRDDNKR  
QHPCLEVEFSKLPETEKNYNLQMSKETLTLALGCHIAHVNPAAEEDLKKVKLPKNYMMS  
NGYKPAPLDLSVVKLLPPQEILVDKLAENAHNVWAKDRIKQGWTYGIQQDLKNKRNPRLV  
PYALLDERTKKSNRDSLREAVRTFVGYGYNIEPSDQELADSAVEKVSIDKIRFFRVERSY  
AVRSGKWYFEFEVVTGGDMRVGWARPGCRPDVELGADDQAFVFEGNRGQRWHQSGSYFGR  
TWQPGDVVGCMINLDDASMIFTLNGELLITNKGSELAFADEIENGFPICCLGLSQIGR  
MNLGTDASTFKFYTMCGLQEGFEPFAVNMNRDVAMWFSKRLPTFVNVPKDHPHIEVMRID  
GTMDSPCLKVTHKTFGTQNSNADMIYCRLSMPVECHSSFSHSPCLDSEAFQKRKQMQEI  
LSHTTTQCYAIRIFAGQDPSCVWVGWVTPDYHLYSEKFDLNKNCTVTVTLGDERGRVHE  
SVKRSNCYMWGGDIVASSQRSNRSNVDLEIGCLVDLAMGMLSFSANGKELGTCYQVEPN  
TKVFPVAVLQPTSTSLFQFELGKLKNAMPLSAAIFRSEKNPVPQCPRLDVQTIQPVW  
SRMPNSFLKVETERVSRHGWVQCLEPLQMMALHIPEENRCVDILELCEQEDLMRFHYH  
TLRLYSAVCALGNSRVAYALCSHVDLSQLFYAIDNKYLPGLLRSGFYDLLISIHLSAKE  
RKLMMKNEYIIPITSTTRNIRLFPDESKRHGLPGVGLRTCLKPGFRFSTPCFVVTGEDHQ  
KQSPEIPLESRLTKALSMLTEAVQCSGAHIRDPVGGSVFQFVPVVKLIGTLLVMGVFDD  
DDVRQILLIDPSVFGESAGTEEGAEKEEVTQVEEKAVEAGEKAGKEAPVKGLLQTRLP  
ESVKLQMCCELLSYLDCCELQHRVEAIVAFGDIYVSKLQANQKFRYNELMQALNMSAALTA  
RKTKEFRSPPQEQINMLLNQFGENCPCPEEIREELYDFHEDLLHCGVPLEEEEEEEED  
TSWTGKLCALVYKIKGPPKPEKEQPTEEERCPTTLKELISQTMICWAQEDQIQDSELVR  
MMFNLLRRQYDSIGELLQALRKTYTISHTSVSDTINLLAALGQIRSLLSVRMGKEEELLM  
INGLDIMNNKVIFYQHPNLMRVLMGHETVMEVMNVNLGTEKSQIAFPKMVASCCRFLCYF  
CRISRQNKAMFEHLSYLLENSSVGLASPSMRGSTPLDVAASSVMDNNELALSLEEPDLE  
KVVTYLAGCGLQSCPMLLAGKYPDVGNPIEGERYLSFLRFVFNSESVEENASVVVKL  
LIRRPECFGPALRGEENGLLAAMQGAIKISENPALDLP SQYKREVSTGDDEEEEEEIVH  
MGNAIMSFYSALIDLLGRCAPEMHLIQTGKGEAIRSILRSLVPTEDLVGIISIPCLKP  
SLNKDGSVSEPDMAANFCPDHKAPMVLFLDRVYGIKDQTFLLHLEVGFLPDLRASASLD  
TVSLSTTEAALALNRYICSAVLPLLTRCAPLFAGTEHCTSLIDSTLQTIYRLSKGRSLTK  
AQRDTIEECLLAICNHLRPSMLQQLRRLVFDVPQLNEYCKMPLKLLTNHYEQCWYYCL  
PSGWGSYGLAVEEELHLEKLFWGFIDSLSHKKYDPDLFRMALPCLSAIAGALPPDYLD  
RITATLEKQISVDADGNFDPKPINTMNFSLPEKLEYIVTKYAEHSHDKWACDKSQSGWKY  
GISLDENVKTHPLIRPFKLTLEKEKEIYRWPARESLKTM LAVGWTVERTKEGEALVQRE  
NEKLRSVSQANQNSYSPAPLDLSNVLSRELQGMVEVVAENYHNIWAKKKKLELESKGG  
GSHPLLVPYDTLTAKEKFKDREKAQDLFKFLQVNGIIVSRGMKDMELDASSMEKRFAYKF  
LKKILKYVDSAQEFIAHLEAIVSSGKTEKSPRDQEI KFFAKVLLPLVDQYFTSHCLYFLS  
SPLKPLSSSGYASHKEKEMVAGLFCKLAALVRHRISLFGSDSTTMVSCLHILAQTL DTRT  
VMKSGSELVKAGLRAFFENAAEDLEKTSENLKL GKFTHSRTQIKGVSQNINYTTVALLPI  
LTSIFEHVTQHFGMDLLLDGVQISCYHILCSLYSLGTGKNYIVERQRPALGECLASLAA  
AIPVAFLEPTLNRYNPLSVFNTKTPRERSILGMPDTVEDMCPDIPQLEGLMKEINDLAES  
GARYTEMPHIVIEVILPMLCNYLSYWWERGPENLPPSTGPCCTKVTSEHLSLILGNILKII  
NNNLGIDEASWMKRIAVYAQPIISKARPDLRSHFIPTLEKLKKKAVKTVQEEQ LKADG  
KGDTQEAELLILDEFVLCDLYAFYPM LIRYVDNRSNLKSPDADSDQLFRMVAEVFI  
LWCKSHNFKREEQNFIQNEINNLAFLTGDSKSKMSKAMQVKS GGQDQERKKT KRRGDLY  
SIQTS LIVAALKMLPIGLNMCTPGDQELISLAKSRYSHRDTDEEVREHLRNNLHLQEK  
DDPAVKWQLNLYKDVLKSEEPFNPEKTVERVQRISA AVFHLEQVEQPLRSKKAVVHKLLS

KQRKRAVVACFRMAPLYNLPRHRSINLFLHGYQRFWIETEEYSFEEKLVQDLAKSPKVEE  
EEEEETEKQPDPLHQIILYFSRNALTERSKLEDDPLYTSYSSMMAKSCQSGEDEEDEDK  
EKTFEKEMEKQKTLYQQARLHERGAAEMVLQMISASKGEMSPMVVETLKLGIAILNGGN  
AGVQQKMLDYLKEKKDAGFFQSLSGMLQSCSVLDLNAFERQKAEGLMVTEEGTLIVRE  
RGEKVLQNDEFTRDLFRFLQLLCEGHNSDFQNFLRTQMGNTTTVNVIIISTVDYLLRLQES  
ISDFYWYYSGKDIIDESGQHNFSKALAVTKQIFNSLTEYIQGPCIGNQQSLAHSRLWDAV  
VGFLHVFANMQMKSQDSSQIELLKELLDLLQDMVMVLLSLLEGNVNGTIGKQMVDTLV  
ESSTNVEMILKFFDMFLKLKDLTSSDTFKEYDPDGKGIISKKEFQKAMEGQKQYTQSEID  
FLLSCAEADENDMFNVYDFVDRFHEPAKDIGFNAVLLTNLSEHMPNDSRLKCLDPAES  
VLNYFEPYLGRIEIMGGAKKIERYVFEISESSRTQWEKPQVKESKRQFIFDVVNEGGEQE  
KMELFVNFCEDTIFEMQLASQISESDSADRPEEEEEDEDSYVLEIAGEEEEEEDGSLEPAS  
AFAMACASVKNRNVDFLKRATLKNLRKQYRNVKKMTAKELVKVLFSEFFWMLFVGLFQLLF  
TILGGIFQILWSTVFGGGLVEGAKNIRVTKILGDMPDPTQFGIHDDTMEAEAEVMEPGI  
TTELVHFIKGEKGD TDIMSDLFGLHPKKEGSLKHGPEVGLGDLSEIIGKDEPPTLESTVQ  
KKRKAQAAEMKAANEAGKVESEKADMEDGEKEDKDKEEQAEYLWTEVTKKKKRRCGQK  
VEKPEAFTANFFKGLEIYQTKLLHYLARNFYNLRFALFVAFAINFILLFYKVTEEPLEE  
ETEDVANLWNSFNDEEEEEAMVFFVLQESTGYMAPTLRALAIHTIISLVCVVGYYCLKV  
PLVVFKEKEIARKLEFDGLYITEQPSEDDIKGQWDRLVINTPSFPNNYWDKFVKRKVIN  
KYGDLYGAERIAELLGLDKNALDFSPVEETKAEASLWSLSSIDMKYHIWKLGVVFTDN  
SFLYLAWYTTMSVLGHYNNFFFAAHLLDIAMGFKTLRTILSSVTHNGKQLVLTVGLLAVV  
VYLYTVVAFNFRKFYKNSEDDDEPDMKCDDMMTCYLFHMYVGVVAGGGIGDEIEDPAGD  
PYEMYRIVFDITFFFFVIVILLAI IQGLIIDAFGELRDQQEQVREDMETKCFICGIGNDY  
FDTTPHGFETHTLQEHNLANYLFFLMYLINKDETEHTGQESYVWKMYQERCWDFFPAGDC  
FRKQYEDQLG

>sp|Q8WXG8|S100Z\_HUMAN Protein S100-Z OS=Homo sapiens GN=S100Z PE=1 SV=4

MPTQLEMAMDTMIRIFHRYSGKERKRFKLSKGELKLLQRELTEFLSCQKETQLVDKIVQ  
DLANKDNEVDFNEFVVMVAALTVACNDYFVEQLKKKGK

>sp|P06703|S10A6\_HUMAN Protein S100-A6 OS=Homo sapiens GN=S100A6 PE=1 SV=1

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDL  
DRNKDQEVNFQEYVTFGLGALALIYNEALKG

>sp|Q9BYT1|S17A9\_HUMAN Solute carrier family 17 member 9 OS=Homo sapiens GN=SLC17A9 PE=1  
SV=2

MQPPPDEARRDMAGDTQWSRPECQAWTGTLLLGTCLLYCARSSMPICTVSMSQDFGWNKK  
EAGIVLSSFFWGYCLTQVVGHLGDRIGGEKVILLSASAWGSITAVTPLLAHLSSAHLAF  
MTFSRILMGLLQGVYFPALTSLLSQKVRESERAFTYSIVGAGSQFGTLLTGAVGSLLLEW  
YGWQSIFYFSGGLTLLWVWYVRYLLSEKDLILALGVLAQSRPVSRHNRVPWRRLFRKPA  
VWAAVVSQLSAACSFFILLSWLPTFFETFPDAKGWIFNVVPWLVAIPASLFSGFLSDHL  
INQGYRAITVRKLMQGMGLGLSSVFALCLGHTSSFCESVVFASASIGLQTFNHSGISVNI  
QDLAPSCAGFLFGVANTAGALAGVVGCLGGYLMETTGSWTCLFNLVAIISNLGLCTFLV  
FGQAQRVDLSSTHEDL

>sp|Q9H228|S1PR5\_HUMAN Sphingosine 1-phosphate receptor 5 OS=Homo sapiens GN=S1PR5 PE=2  
SV=1

MESGLLRPAPVSEIVLHYNVTGKLRGARYQPGAGLRADAVVCLAVCAFIVLENLAVLLV  
LGRHPRFHAMFLLLGSLLTSDLLAGAAYAANILLSGPLTLKLSPALWFAREGGVFVALT

MSQPRPRYVVDRAAYSLLTFDDEFEKDRTPVGEKLRNAFRCSAKIKAVVFGLLPVL  
S  
WLPKYKIKDYIIPDLLGGLSGGSIQVPQGMFAALLNPAVNGLYSSFFPLLTIFYFLGGV  
HQMVPGTFAVISILVGNICLQLAPESKQVFVFNATNESYVDTAAMEAERLHVSATLACT  
AIIQMGLGFMQFGFVAIYLSSESFIRGFMTAAGLQILISVLKYIFGLTIPSYTGPGSIVFT  
FIDICKNLPHNTIASLIFALISGAFLVLVELNARYMHKIRFPIPTMIVVVVATAISGG  
CKMPKKYHMQIVGEIQRGFPTVPSPVVSQWKDMIGTAFSLAIVSYVINLAMGRTLANKHG  
YDVDSNQEMIALGCSNFFGSFFKIHVICCALSVTLAVDGAGGKSQVASLCVSLVVMITML

VLGIYLYPLPKSVLGALIAVNLKNSLKQLTDPYYLWRKSKLDCCIWVVSFLSSFFLSLPY  
GVAVGVAFSVLVVVFQTFRNGYALAQVMDTDIYVNPPTYNRAQDIQGIKIITYCSPLYF  
ANSEIFRQKVIKTGMDPQKVLLAKQKYLKKQEKRRMRPTQQRSLFMKTKTVSLQELQQ  
DFENAPPTDPNNNQTPANGTSVSYITFSPDSSSPAQSEPPASAEAPGEPDMLASVPPFV  
TFHTLILDMSGVSFVDLMGIALAKLSSTYGKIGVKVFLVNIHAQVYNDISHGGVFEDGS  
LECKHVFPSTHDAVLFAQANARDVTPGHNFQGAPGDAELSLYDSEEDIRSYWDLEQEMFG  
SMFHAETLTAL

>sp|Q6PCB7|S27A1\_HUMAN Long-chain fatty acid transport protein 1 OS=Homo sapiens  
GN=SLC27A1 PE=2 SV=1

MRAPGAGAASVSVSLALLWLLGLPWTWSAAAAAGVYVSGGWRFLRIVCKTARRDLFGLSV  
LIRVRLELRRHQAGHTIPRIFQAVVQRQPERLALVDAGTGECWTFACLDAVSNAVANLF  
RQLGFAPGDVVAIFLEGRPEFVGLWLGLAKAGMEAALLNVNLRREPLAFCLGTSGAKALI  
FGGEMVAAVAESVHGLGKSLIKFCSGDLGPEGILPDTHLLDPLLKEASTAPLAQIPSKGM  
DDRLFYIYTSGTTGLPKAAIVVHSRYRMAAFGHHAYRMAADVLYDCLPLYHSAGNIIG  
VGQCLIIYGLTVVLRKKFSASRFWDDCIKYNCTVVQYIGEICRYLLKQPVREAERRHRVRL  
AVGNGLRPAIWEETERFGVRQIGEFYGATECNCSIANMDGKVGSCGFNSRILPHVYPIR  
LVKVNEDTMELLRDAQGLCIPCQAGEPGLLVGQINQQDPLRRFDGYVSESATSKKIAHSV  
FSKGDSAYLSGDVLVMDELGYMYFRDRSGDTFRWRGENVSTTEVEGVSRLLGQTDVAVY  
GVAVPGVEGKAGMAAVADPHSLDPNAIYQELQKVLAPYARPIFLRLLPQVDTTGTFTKIQ  
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>sp|O43868|S28A2\_HUMAN Sodium/nucleoside cotransporter 2 OS=Homo sapiens GN=SLC28A2 PE=2  
SV=2

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SFLKKLLGKKLTRCLKPFENSRLRLWTKWVFAGVSLVGLILWLALDTAQRPEQLIPFAGI  
CMFILILFACSKHHSVSWRTVFSGGLQFVFGILVIRTDLGYTVFQWLGEQVQIFLNYT  
VAGSSFVFGDTLVKDVFAFQALPIIIFFGCVVSILYYLGLVQWVQKVAWFLQITMGTTA  
TETLAVAGNIFVGMTEAPLLIRPYLGDMTLEIHAVMTGGFATISGTVLGAFIAFGVDAS  
SLISASVMAAPCALASSKLAYEVEESKFKSEEGVKLPRGKERNVLEAASNGAVDAIGLA  
TNVAANLIAFLAVLAFINAALSWLGELVDIQGLTFQVICSYLLRPMVFMGMVEWTDCPMV  
AEMVGIKFFINEFVAYQQLSQYKNKRLSGMEEWIEGEKQWISVRAEIIITFSLCGFANLS  
SIGITLGGLTIVPHRKSLSKVVRALFTGACVSLISACMAGILYVPRGAEDCVSFPN  
TSFTNRTYETYMCCRGLFQSTSLNGTNPPSFSGPWEDKEFSAMALTNCCGFYNNTVCA

>sp|Q5VYP0|S31A3\_HUMAN Spermatogenesis-associated protein 31A3 OS=Homo sapiens  
GN=SPATA31A3 PE=2 SV=1

MENLPFPLKLLSASSLNAPSSTPWVLDIFLTLVFALGFFLLLPYLSYFRCDPPSPSPG  
KRKCPVGRRRRRPRGRMKNHSLRAGRECRRGLEETSDLLSQLQSLLGPHLDKGDGQLSGP  
DPPGEVGERAPDGASQSSHEPMEDAAPILSLLASPDPQAKHPQDLASTPSPGPMTTVS  
LSASQPPEPSLPLEHPSPEPPALFPHPPHTPDPLACSLPPPKGFTAPPLRDSTLITPSHC  
DSVALPLGTVPQSLSPHEDLVASVPAISGLGGSNSHVSASSRWQETARTSCAFNSSVQQD  
HLRHPPEQCMQEAGSLFLLSSDGQNVVGIQVTETAKVNIWEEKENVGSFTNRMTPKHL  
NSLRNLAKSLDAEQDTTNPKPFWNMGENSKQLPGPQKLSDPRLWQESFWKNYSQLFWGLP  
SLHSESLVANAWVTRSYTLQSPFLLFNEMSNVCPIQRETTMSPLLFAQPLSHLGPECQ  
PFISSTPQFRPTPMAQAEQAHLQSSFPVLSAPFPSLIQNTGVACPASQNKVQALSPLPET

QHPEWPLRRQLEGRALPSRVQKSQDVFSVSTPNLPQESLTSILPENFPVSPELRRQLE  
QHIKKWIIQHWGNLGRIQESLDLMQLQDESPGTSQAKGKPSPWQSSMSTGESSKEAQKVK  
FQLERDPCPHLGQILGETPQNLSRDMKSFPRKVLGVTSEELERNLRKPLRSDSGSDDLRC  
TERTHIENILKAHMGRLNGQTNEGLIPVRVRRSWLAVNQALPVSNTHVKTSNLAAPKSGK  
ACVNTAQVLSFLEPCTQQGLGAHIVRFWAKHRWGLPLRVLKPIQCFKLEKVSSLSLTQLA  
GPSSATCESGAGSEVEVDMFLRKPPMASLRKQVLTKASDHMPESLLASSPAWKQFQRAPR  
GIPSWNDHEPLKPPAGQEGRWPSKPLTYSLTGSTQQSRSLGAQSSKAGETREAVPQCRV  
PLETCMLANLQATSEVDVHGFEAPGTSKSSLHPRVSVSQDPRKLCLEEVVSEFEPGMATK  
SETQPQVCAAVVLLPDGQASVVPHASENLVSQVPQGHLSMPTGNMRASQELHDLMAARR  
SKLVHEEPRKPNQCQGSCKSQRPMPFPIHKSEKFRKPNLEKHEERLEGLRTPQLTPVRKTE  
DTHQDEGVQLLPSKKQPPSVSPFGENIKQIFQWIFSKKSKPAPVTAESQKTVKNRSCVY  
SSSAEAQGLMTAVGQMLDEKMSLCHARHASKVNQHKQKFQAPVCGFPCNHRHLYSEHGR  
ILSYAASSQQATLKSQGCNDRQIRNQQLKSVRCNNEQWGLRHPQILHPKKA VSPVSP  
PQHWPKTSGASSHHHCPRHCLLWEGI

>sp|POC874|S31D3\_HUMAN Putative spermatogenesis-associated protein 31D3 OS=Homo sapiens  
GN=SPATA31D3 PE=5 SV=1

MENILCFLNSYTETGLSPDSHCLDIDLNFICLSGLGLFILYLFYVMVLTLYSSPTEKNNDT  
QKHQGRARRKRKSVTFKDRKSLQKEAEEERKLHSFLKSFPPVSCSPLGQHHDITLFRRL  
LCPDPVCRVCNRATADIQRLLSWESLKDAAPSVSPASSASGAESSFTLASTPSATTPED  
LILSSRPKSPPPPLILSPDLITTLADLFSPSPLRDPLPPQVSPPLDSKFPIDHSPPQQL  
PFPLLPPHHIERVEPSLQPEASLSLNTIFSFGSTLCQDISQAVNRDSCARHHGPPTPSA  
LPPEDCTVTQSKSNLTVLKTTFPEMLSLGGSGGSSTAPTCKGIDHSCPASSEFSWWQPHA  
KDSFSSNFVPSDFMEELLTLHSSEASLGGHVSANI IQPVNISFSLHDIPALLERQVKRRG  
DFLMWKENGKKPGSFPTQLRPNYQLNSSRNMLTSTAVKHDLAESFPFWASKGKLEWQHIIH  
QQPPYKCFEDHLEQKYVQLFWGLPSLHSESLHPTVFVQHGRSSMFVFFNGITNTSMSHE  
SPVLPPPQPLFLPSTQPLPLPQTLPQGSLHLTQVKSLAQPSFPALPPSPLFLIRVCG  
VCFHRPQNEARSLMPSEINHLEWNVLQKVQESVWGLPSVVQKSQEDFCPPAPNPVLRKS  
FKVHVPIISII PGDFPLSSEVRKKLEQHIRKRLIQRWGLPRRIHESLSLLRPQNKISELS  
VSEIHGPLNISLVEGQRNVLKKSASSFPRSFHERSSNMLSMENVGNYQGCSQETAPKN  
HLLHDPETSSEEDLRNSERDLGTHMMHLSGNDSGVRLGQKQLENALTVHLSKKFEEINE  
GRMPGTVHSSWHSVKQTICLPEKSHSQIKHRNLAALVSEDHRVDTSQEMSFLSSNKQKML  
EAHIKSFHMKPILNLSI

>sp|Q9NQQ7|S35C2\_HUMAN Solute carrier family 35 member C2 OS=Homo sapiens GN=SLC35C2 PE=1  
SV=2

MGRWALDVAFLWKAVLTLGLVLLYYCFSIGITFYNKWLTKSFHFPLFMTMLHLAVIFLFS  
ALSRAVLQCSSHRARVLSWADYLRRAVPTALATALDVGLSNWSFLYVTVSLYTMKSSA  
VLFILIFSLIFKLEELRAALVLVLLIAGGLFMFTYKSTQFNVEGFALVLGASFIGGIRW  
TLTQMLLQKAELGLQNPIDTMFHLQPLMFLGLFPLFAVFEGLHLSTSEKIFRFQDTGLLL  
RVLGSFLGGILAFGLGFSEFLVSRSSLTSLIAGIFKEVCTLLAAHLLGDQISLLNW  
LGFALCLSGISLHVALKALHSRGDGGPKALKGLGSSPDLELLLRSSQREEGDNEEEYFV  
AQGGQ

>sp|Q5M8T2|S35D3\_HUMAN Solute carrier family 35 member D3 OS=Homo sapiens GN=SLC35D3 PE=2  
SV=1

MRQLCRGRVLGISVAIAHGVFSGSLNILLKFLISRYQFSFLTLVQCLTSSTAALSLELLR

RLGLIAVPPFGLSLARSFAGVAVLSTLQSSLTLWSLRGLSLPMYVVFKRCLPLVTMLIGV  
LVLKNGAPSPGVLA AVLITTCGAALAGAGDLTGDP IGYVTGVLAVLVHAAVLVLIQKASA  
DTEHGPLTAQYVIAVSATPLLVICSFASDTSIHAWTFPGWKDPAMVCIFVACILIGCAMN  
FTTLHCTYINS AVTTSFVG VVKSIATITVGMVAFSDVEPTSLFIAGVVNTLGSIIYCVA  
KFMETRKQSNYEDLEAQPRGEEAQLSGDQLPFVMEELPGEGGNRSEGGEAAGGPAQESR  
QEV RGS PRGVPLVAGSSEEGSRRSLKDAYLEVWRLVRGTRYMKKDYL IENEELPSP

>sp|Q96NU1|SAM11\_HUMAN Sterile alpha motif domain-containing protein 11 OS=Homo sapiens  
GN=SAMD11 PE=1 SV=3

MSKGILQVHPPICDCPGCRISSPVNRGRLADKRTVALPAARNLKKERTPSFSASDGSDG  
SGPTCGRRPGLKQEDGPHIRIMKRRVHTHWDVNISFREASCSQDGNLPTLISSVHRSRHL  
VMPEHQSRCEFQ RGSLEIGLRPAGDLLGKRLGRSPRISSDCFSEKRARSESPQEALLPR  
ELGSPMAPEDHYRRLVSALSEASTFEDPQRLYHLGLPSHGEDPPWHDPHHLPSHDLLRV  
RQEVA A A A A LRGPSGLEAHLPSSTAGQRRKQGLAQHREGAAPAAAPSFSERELPPPPLLS  
PQNAPHVALGPHLRPPFLGVPSALCQTPGYGFLPPAQAEFAWQQELLRKQNLARLELPA  
DLLRQKELESARPQL LAPETALRPNDGAEELQRRGALLVLNHGAAPLLALPPQGPPGSGP  
PTPSRDSARRAPRKG GPGPASARPSSEKEMTGARLWAQDGSEDEPPKDSGDGEDPETA AVG  
CRGPTPGQAPAGGAGAEGKGLFPGSTLPLGFPYAVSPYFHTGAVGGLSMDGEEAPAPEDV  
TKWTVDDVCSFVGGLSGCGEYTRVFREQIDGETLPLLTEEHL TNMGLKLGPALKIRAQ  
VARRLGRVFYVASFPVALPLQPPTLRAPERELGTGEQPLSPTTATSPYGGGHALAGQTSP  
KQENGLALLPGAPDPSQPLC

>sp|Q8IVG5|SAM9L\_HUMAN Sterile alpha motif domain-containing protein 9-like OS=Homo  
sapiens GN=SAMD9L PE=1 SV=2

MSKQVSLPEMIKDWTKHEHVKKWVNEDLKINEQYQGILLSEEV TGLVLQELTEKDLVEMGL  
PWGPALLIKRSYNKLNKSPESDNHDPGQLDNSKPSKTEHQKNPKHTKKEEENSMSSNID  
YDPREIRDIKQEESILMKENVLDEVANAKHKKKGK LKPEQLTCMPYPFDQFHD SHRYIEH  
YTLQPETGALNLIDPIHEFKALTNTETATEVDIKMKSNEVFRFASACMNSRTNGTIHFG  
VKDKPHGEIVGVKITSKA AFI DHFNM IKKYFEESEINEAKKCIREPRFVEVLLQNNTPS  
DRFVIEVDTI PKHSICNDKYFYIQMQICKDKIWKQNQNLSLFVREGASSRDILANSKQRD  
VDFKAFLQNLKSLVASRKEAEE EYGMMKAMKKESEGLKLVKLLIGNRDSL DNSYDWYILV  
TNKCHPNQIKHDLFLKEIKWFAVLEFDPESMINGVV KAYKESRVANLHFPNQYEDKTTNM  
WEKISTLNLYQQPSWIFCNGRSDLKSETYKPLEPHLWQRERASEVRKLILFLT DENIMTR  
GKFLVVFLLSSVESPGDPLIETFWAFYQALKGMENMLCISVN SHIYQRWKDLLQTRMKM  
EDEL TNHSISTLNIELVNSTILKLKSVTRSSRRFLPARGSSSVILEKKKEDVLTAL EILC  
ENECTETDIEKDKSKFLEFKKSKEEHFYRGGKVSWWNFYFSSENYSSDFVKRDSYEK LKD  
LIHCWAESPKPIFAKIINLYHHPGCGGTTLAMHVLWDLKKNFRCAVLKNKTTDFAEIAEQ  
VINLV TYRAKSHQDIYPVLLLVD DFEQENVYFLQNAIHSVLAEKDLRYEKT LVIILNCM  
RSRNPDES AKLADSI ALNYQLSSKEQRAFGAKLKEIEKQHKNCENFY SFMIMKSNFDETY  
IENVVRN ILKGQDVDSKEAQLISFLALLSSYYT DSTISVSQCEIFLGI IYTSTPWEPESL  
EDKMGTYSTLLIKTEVAEYGRYTGVR I IHPLIALYCLKELERSYHLDKCQIALNILEENL  
FYDSGIGRDKFQHDVQ TLLLTRQRKVYGD ETDTLFSPLMEALQNKDIEKVL SAGSRRFPQ  
NAFICQALARHFYIKEKDFNTALDWARQAKMKAPKNSYISDTLGQVYKSEIKWWLDGNKN  
CRSITVNDLTHLLEAAEKASRAFKESQRQTDSKNYETENWSPQKSQRRYDMYNTACFLGE  
IEVGLYTIQILQ LTPFFHKENELSKKHMVQFLSGKWTIPDP RNECYLALS KFTSHLKNL  
QSDLKRCDFDFIDYMVLLKMRYTQKEIAEIMLSKKVSRCFRKYTELFCHLDPCLLQSKES



QLLQEENCRKKLEALRADRFAGLLEYLNPYKDATTMESIVNEYAFLQNSKKPMTNEK  
QNSILANIILSCLKPNSKLIQPLTTLKKQLREVLQFVGLSHQYPGPYFLACLLFWPENQE  
LDQDSKLIKEYVSSLNRSFRGQYKRMCRSKQASTLFYLGKRKGLNSIVHKAKIEQYFDKA  
QNTNSLWHSQDVWKKNEVKDLLRRLTGQAEGKLISVEYGTEEKIKIPVISVYSGPLRSGR  
NIERSVSYLGFSGIEGPLAYDIEVI

>sp|P07602|SAP\_HUMAN Prosaposin OS=Homo sapiens GN=PSAP PE=1 SV=2  
MYALFLLASLLGAALAGPVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNKPTVKS  
LPCDICKDVVTAAGDMLKDNATEEEILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDI  
IKGEMSRPGEVCSALNLCESLQKHLAELNHQKQLESNKIPELDMTEVVAPFMANIPLLLY  
PQDGPGRSKPQPKDNGDVCQDCIQMVTDIQTAVRTNSTFVQALVEHVKEECDRLGPGMADI  
CKNYISQYSEIAIQMMHMQPKEICALVGFCDEVKEMPMQTLVPAKVASKNVIPALELVE  
PIKKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDAFDMCSKLPKSLSEECQEV  
VDTYGSSILSILLEEVSPELVCSMLHLCSGTRLPALTVHVTQPKDGGFCEVCKKLVGYLD  
RNLEKNSTKQEILAALEKGCFLPDYQKQCDQFVAEYEPVLIEILVEVMDPSFVCLKIG  
ACPSAHKPLLGTCKIWGPSYWCQNTETAACNAVEHCKRHVWN

>sp|Q96F10|SAT2\_HUMAN Diamine acetyltransferase 2 OS=Homo sapiens GN=SAT2 PE=1 SV=1  
MASVRIREAKEGDCGDLRLIRELAEFEKLSQVKISEEALRADGFGDNPFIHCLVAEIL  
PAPGKLLGPCVVGYYFYIYSTWKGRITYLEDIYVMPEYRGQIGSKI IKKVAEVALDK  
GCSQFRLAVLDWNQRAMDLYKALGAQDLTEAEGWHFFCFQGEATRKLAKG

>sp|A3KN83|SBN01\_HUMAN Protein strawberry notch homolog 1 OS=Homo sapiens GN=SBN01 PE=1  
SV=1

MVEPGQDLLLAALSESISPNDLFDIDGGDAGLATPMPTPSVQQSVPLSALELGLTEAA  
VPVKQEPETVPTALLNVRQPPSTTTFVLNQINHLPLPGSTIVMTKTPPVTTNRQTITL  
TKFIQTASTRPSVSAPTVRNAMTSAPSKDQVQLKDLLKNSLNLMLKPPANIAQPVA  
TAATDVSNGTVKKESSNKEGARMWINDMKMRSFSPTMKVPVVKEDDEPEEEDDEEMGHAE  
TYAEYMPIKLIKGLRHPDAVETSSLSVTPPDVWYKTSISEETIDNGWLSALQLEAITY  
AAQQHETFLPNGDRAGFLIGDGAGVGKGRTIAGIIYENYLLSRKRALWFSVSNLKYDAE  
RDLRDIGAKNILVHSLNKFYKGKISSKHNGSVKKGVI FATYSSSIGESQSGGKYKTRLKQ  
LLHWCDDDFDGVIVFDECHKAKNLCVGSCKPTKTGLAVLELQNKLPKARVVYASATGAS  
EPRNMAYMNRGLIWGEGTPFREFSDFIQAVERRGVGAMEIVAMDMLRGMYIARQLSFTG  
VTFKIEEVLLSQSYVKMYNKAIVLWVIARERFQQAADLIDAEQRMKSMWGWQFWSAHQRF  
FKYLCIASKVKRVVQLAREEIKNGKCVVIGLQSTGEARTLEALEEGGGELNDFVSTAKGV  
LQSLIEKHFPAPDRKKLYSLLGIDL TAPSNNSSPRDSPCKENKIKKRKGEEITREAKKAR  
KVGGLTGSSSDSGSESASDNEESDYESSKNMSSGDDDDFNPFDESNEDENDPWLIR  
KDHKKNEKKKKKSIDPDSIQSALLASGLGSKRPSFSSTPVISAPNSTPANSNTNSNSS  
LITSQDAVERAQQMKDLDLLEKLAEDLPNTLDELIDELGGPENVAEMTGRKGRVVS  
DDGSIYESRSELDVPVEILNITEKQRFMDGDKNIAIISEAASSGISLQADRRAKNQRRR  
VHMTLELPWSADRAIQFGRTHRSNQVTAPEYVFLISELAGEQRFASIVAKRLESLGALT  
HGDRRATESRDLSRFNFDNKYGRNALEIVMKSIVNLDSPMVSPPPDYPGEFFKDVRQGLI  
GVGLINVEDRSGILTLDKDYNNIGKFLNRILGMEVHQNALFQYFADTLTAVVQNAKKNG  
RYDMGILDGSGDEKVRKSDVKKFLTPGYSTSGHVELYTISVERGMSWEEATKIWAELTG  
PDDGFYLSLQIRNNKKTAILVKEVNPKKKLFLVYRPNTGKQLKLEIYADLKKKYKKVVS  
DALMHWLDQYNSSADTCTHAYWRGNCKKASGLVCEIGLRCRTYYVLCGSVLSVWTKVEG  
VLASVSGTNVKMIVRLRTEDGQRIVGLIIPANCVSPLVNLSTSDQSQQLAQQKQLWQ

QHHPQSITNLSNA

>sp|Q96IW7|SC22A\_HUMAN Vesicle-trafficking protein SEC22a OS=Homo sapiens GN=SEC22A PE=1 SV=1

MSMILSASVIRVRDGLPLSASTDYEQSTGMQECKRYFKMLSRKLAQLPDRCTLKTGHYNI  
NFISSLGVSYYMLCTENYPNVLAFSFLDELQKEFITTNNMMKTNATAVRPYCFIEFDNFIQ  
RTKQRYNNPRSLSTKINLSDMQTEIKLRPPYQISMCELGSANGVTSAFSVDCGAGAKISS  
AHQRLEPATLSGIVGFILSLLCGALNLIRGFHAIESLLQSDGDDFNYYIAFFLGTAACLY  
QCYLLVYYTGWRNVKSFLT FGLICLCNMYLYELRNWQLFFHVTVGAFVTLQIWLRQAQG  
KAPDYDV

>sp|075396|SC22B\_HUMAN Vesicle-trafficking protein SEC22b OS=Homo sapiens GN=SEC22B PE=1 SV=4

MVLLTMIARVADGLPLAASMQEDEQSGRDLLQYQSQAQLFRKLNEQSPTRCTLEAGAMT  
FHYIIEQGVCDDLVLCEAAFPKTLAFAYLEDLHSEFDEQHGKVKPTVSRPYSFIEFDTFIQ  
KTKKLYIDSCARRNLGSINTELQDVQRIMVANIEEVLQRGEALSALDSKANNLSSLSKKY  
RQDAKYLNMHSTYAKLA AVAVFFIMLIVYVRFWWL

>sp|Q9NQW1|SC31B\_HUMAN Protein transport protein Sec31B OS=Homo sapiens GN=SEC31B PE=1 SV=1

MKLKELERPAVQAWSPASQYPLYLATGTSAQQLDSSFSTNGTLEIFEVDFRDPSLDLKHR  
GVLSALSRFHKLWVGSGGLLESSGVIVGGDNGMLILYNVTHILSSGKEPVIAQKQKH  
TGAVRALDLNPFQGNLLASGASDSEIFIWDLNNLNVPMTLGSKSQPPEDIKALSWNRQA  
QHILSSAHPSGKAVVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDIATQLVLCSEDDRLPV  
IQLWDLRFASSPLKVLESHSGILSVSWSQADAELLLTSAKDSQILCRNLGSSEVVYKLP  
TQSSWCFDVQWCPRDPVSFSAASFNGWISLYSVMGRSWEVQHMRQADKISSFSKGGPLP  
PLQVPEQVAQAPLIPPLKKPPKWIRRPTGVSFAGGKLVTFGLPSTPAHLVPQPCPRLVF  
ISQVTTESEFLMRSAELQEALGSGNLLNYCQNKSQALLQSEKMLWQFLKVTLEQDSRMK  
FLKLLGYSKDELQKKVATWLKSDVGLGESPPKGNLNSDRQQAFCSQASKHTTKEASAS  
SAFFDELVPQNMTPWEIPITKDIDGLLSQALLLGELGPAVELCLKEERFADAIILAQAGG  
TDLLKQTQERYLAKKKTKISSLLACVVQKNWKDVVCTCSLKNWREALALLLTYSGTEKFP  
ELCDMLGTRMEQEGSRALTSEARLCYVCSGVERLVECWAKCHQALSPMALQDLMEKVMV  
LNRSLEQLRGPBGVSPGPATTYRVTQYANLLAAQGLATAMSFLPRDCAQPPVQQLRDRL  
FHAQGSAVLGQQSPFPFPRIVVGATLHSHKETSSYRLGSQPSHQVPTSPRPRVFTPQSS  
PAMPLAPSHPSPYQGPRTQNISDYRAPGPQAIQPLPLSPGVRPASSQPQLLGGQRVQVPN  
PVGFPGTWPLPGSPLPMACPGIMRPGSTSLPETPRLFPLPLRPLPGRMVSHTPAPPAS  
FPVPYLPGDGPACSSVLPTTGILTPHPGPQDSWEAPAPRGNLQRNKLPETFMPPAPIT  
APVMSLTPELQGLPSQPPVSSVSHAPGVPGLSLQLQHLPEKMERKELPPEHQLKS  
SFEALLQRCSLSATDLKTKRKLEEAQRLEYLYEKLCEGTLSPHVVAGLHEVARCVDAGS  
FEQGLAVHAQVAGCSSFSEVSSFMPIKAVLIIAHKLLV

>sp|Q9NY91|SC5A4\_HUMAN Low affinity sodium-glucose cotransporter OS=Homo sapiens GN=SLC5A4 PE=2 SV=1

MASTVSPSTIAETPEPPPLSDHIRNAADISVIVYFLVMAVGLWAMLKTNRGTTGGFFL  
AGRDMAWWPMGASLFASNIGSNHYVGLAGTGAASGVATVTFEWTSSVMLLILGWIFVPIY  
IKSGVMTMPEYLKKRFGGERLQVYLSILSLFICVLLISADIFAGAIFIKLALGLDLYLA  
IFILLAMTAVYTTTGGLASVIYDTLQTIIMLIGSFILMGFAFNEVGGYESFTEKYVNAT  
PSVVEGDNLTIASCYTPRADSFHIFRDAVTGDIPWPGIIFGMPITALWYWCTNQVIVQR

CLCGKDMSHVKAACIMCAYLKLLPMFLMVMPGMISRILYTDMVACVVPSECVKHCGVDVG  
CTNYAYPTMVLELMPQGLRGLMLSVMLASLMSSLTSTIFNSASTLFTIDLYTKMRKQASEK  
ELLIAGRIFVLLLTVVSVVWVPLVQVSQNGQLIHYTESISSYLGPPIAAVFVLAIFCKRV  
NEQGAFWGLMVLAMGLIRMITEFAYGTGSCCLAPSNCPKIICGVHYLYFSIVLFFGSMLV  
TLGISLLTKPIPDVHLYRLCWVLRNSTEERIDIDAEKSKQETDDGVEEDYPEKSRGCLK  
KAYDLFCGLQKGPCLTKEEEEALSKKLTDTSERPSWRTIVNINAILLLAVVVFHGYA

>sp|O15127|SCAM2\_HUMAN Secretory carrier-associated membrane protein 2 OS=Homo sapiens  
GN=SCAMP2 PE=1 SV=2

MSAFDTNPFADPVDVNPFDPSVTQLTNAPQGGLAEFNPSETNAATVPVTQLPGSSQP  
AVLQPSVEPTQPTPQAVVSAAQAGLLRQQEELDRKAAELERKERELQNTVANLHVRQNNW  
PPLPSWCPVKPCFYQDFSTEIPADYQRICKMLYYLWMLHSVTFLNLLACLAWFSGNSSK  
GVDFGLSILWFLIFTPCAFLCWYRPIYKAFRSDNSFSFFVFFVFFCQIGIYIIQLVGIP  
GLGDSGWIAALSTLDNHSIAISVIMMVAGFFTLCAVLSVFLQRVHSLYRRTGASFQQA  
QEEFSQGIFSSRTFHRAASSAAQGAFAQGN

>sp|Q6UWF3|SCIMP\_HUMAN SLP adapter and CSK-interacting membrane protein OS=Homo sapiens  
GN=SCIMP PE=1 SV=1

MDTFTVQDSTAMSWWRNFWIILAVAIIVSVGLGLILYCVCKWQLRRGKKWEIAKPLKH  
KQVDEEKMYENVLNESPVQLPPLPPRNWPSLEDSSPQEAPSQPPATYSLVNKVKNKKTVS  
IPSYIEPEDDYDDVEIPANTEKASF

>sp|Q9GZW5|SCND2\_HUMAN Putative SCAN domain-containing protein SCAND2P OS=Homo sapiens  
GN=SCAND2P PE=5 SV=2

MAVAVDQQIQTPSVQDLQIVKLEEDSHWEQEISLQGNYPGPETSCQSFWHFRYQEASRPR  
EALLQLQLCCQWLRLPEKCTKEQILELLVLEQFPTVLLQEIQIWRQQHPESGEEAVALV  
EDLQKEPGRQRLEPRARPSGRTPPAQLRSPWPMTAAGPASRARASETGSTASCAGRWRTC  
CAAAAAPSAARSASARTGRSTSSCARAARAPSATEGALTRTPAPRRPLQRRRPGTGWPWP  
GRQRGAGTAPPGTQPRQRPSRPTPRRPRPRLARPRAGQKPWLLVIRSMERVMYVMLIIQ  
METEDV

>sp|Q6R2W3|SCND3\_HUMAN SCAN domain-containing protein 3 OS=Homo sapiens GN=ZBED9 PE=2  
SV=1

MEAVSRVFPALAGQAPEEQGEIKVKVKEEDHTWDQESALRRNLSYTRELSRQRFRQFCY  
QETPGPREALSQRLRELCRQWLNPEIHTKEQILELLVLEQFLTILPEELQSWVREHNPESG  
EEVVTLLLEDLERELDEPRQQVSQGTYGQEVSMEEIPLDSAKESLGTQLQSMEDRMECES  
PEPHPLQDNGSFLWFSMMSQSMGGDNLSSLDTNEAEIEPENMREKFFRSLARLLENKSNN  
TKIFSKAKYCQLIKEVKEAKAKAKKESVDYRRLARFDVILVQGNEKLEAVNGETDKIRY  
YLHSEDLFDILHNTHLSIGHGGRTRMEKELQAKYKNITKEVIMLYLTLCCKPCQQKNSKLK  
KVLTSKSIKEVSSRCQVDLIDMQLNPDGEYRFILHYQDLCTKLTFLRSLKSKRPTEVAHA  
LLDIFTIIGAPSVLQSDNGREFSSQVSELSNIWPELKIVHGKSQTCQSQSSAEQTEDIR  
KRIFSWMQTNSSHWTEFLWFIQMSQNQPYHRSMQQTPCESAFSSEAKLGLSHSQLTEEL  
VASLHTENELDQADKELENTLRAQYEENIETGTDSSDIEENLSVTPKVAEKSPPESTRLF  
LSCVVEKECTGVNSCISCIGNIHAICGVPSQHGTGCGRQITCSLCYETSTMKRKHDEI  
QRSPLVPKSKMLKPSGTPFSPDKVGDWMAKQASLDFVKKRHAFSEHSSSNKRVNNRSY  
PEEGKTKRVHASFTRKYDPSYIEFGFVAVIDGEVLKPQCIICGVDLANEAMKPSKLKRHL  
YSKHKEISSQPKEFFERKSSELKSQPKQVFNVSHINISALRASYKVALPVAKSKTPYTIA  
ETLVKDCIKEVCLEMLGESAAKKVAQVPLSNDTIARRIQELANDMEDQLIEQIKLAKYFS

LQLDECRDIANMIILLVYVRFEHDDDIKEEFFFSASLPTNTTSSELYEAVKNYIVNKCGL  
EFKFCVGVCSGAASMTGKHSEVVTQIKELAPECKTTHCFIHRESLAMKKISAELNSVLN  
DIVKIVNYIKSNSLSRFLSLCDNMEADHKQLLLHAEIRWLSRGKVL SRMFEIRNELLV  
FLQGKKPMWSQLFKDVNWTARLAYLSDIFSIFNDLNASMQGKNATYFSMADKVEGQKQKL  
EAWKNRISTDCYDMFHNLTIIINEVGNDLDIAHLRKVISEHLTNLLECFEYFPSKEDPR  
IGNLWIQNPFLSSKDNLNLTVTLQDKLLKLATDEGLKISFENTASLPSFWIKAKNDYPEL  
AEIALKLLLLFPSTYLCETGFSTLSVIKTKHRNSLNIHYPLRVALSSIQPRLDKLTSSKKQ  
AHL SH

>sp|Q9BWG6|SCNM1\_HUMAN Sodium channel modifier 1 OS=Homo sapiens GN=SCNM1 PE=1 SV=1

MSFKREGDDWSQLNLVKRRVGDLLASYIPEDEALMLRDGRFACAICPHRPVLDTLAMLT  
AHRAGKKHLSLQLFYGKKQPGKERKQNPQHQNELRREETKAEAPLLTQTRLITQSALHR  
APHYNSCCRRKYRPEAPGPSVSLSPMPPEVKLQSGKISREPEPAAGPQAEESATVSAPA  
PMSPTRRRALDHYLTRSSGWIPDGRGRWVKDENVEFDSDEEEPPDLPLD

>sp|P37088|SCNNA\_HUMAN Amiloride-sensitive sodium channel subunit alpha OS=Homo sapiens  
GN=SCNNA1A PE=1 SV=1

MEGNKLEEQDSSPPQSTPGLMKGNKREEQGLGPEPAAPQQPTAEELIEFHRSYRELFE  
FFCNNTTIHGAIRLVCSQHNRMTAFWAVLWLCTFGMMYWQFGLLFGYFSYPVSLNINL  
NSDKLVFAVTICTLNPYRYPEIKEELEELDRITEQTLFDLYKYSSFTTLVAGSRSRDL  
RGTLPHPLQRLRVPPPHGARRARSVASSLRDNNPQVDWKDWKIGFQLCNQNKSDCFYQT  
YSSGVDVREWYRFHYINILSRPETLPSLEEDTLGNFIFACRFNQVSCNQANYSHFHP  
MYGNCYTFNDKNNSLWMSMPGINNGLSLMLRAEQNDFIPLLSTVTGARVMVHGQDEPA  
FMDDGGFNLRPGVETISMRKETLDRLLGGDYGDCTKNGSDVPVENLYPSKYTQQVCIHSC  
FQESMIKECGCAYIFYPRPQNVEYCDYRKHSSWGICYKQLQVDFSSDHLGCFTKCRKPCS  
VTSYQLSAGYSRWPSVTSQEWVFQMLSRQNNYTVNNKRNGVAKVNIFFKELNYKTNESP  
SVTMVTLLSNLGSQWSLWFGSSVLSVVEMAELVFDLLVIMFLMLLRRFRSRYWSPGRGGR  
GAQEVASTLASSPPSHFCPPHMSLSLSQPGPAPSPALTAPPPAYATLGPRPSPGGSAGAS  
SSTCPLGGP

>sp|Q14108|SCRB2\_HUMAN Lysosome membrane protein 2 OS=Homo sapiens GN=SCARB2 PE=1 SV=2

MGRCCFYTAGTSLLLLLVTSVTLVARVFQKAVDQSIEKKIVLRNGTEAFDSWEKPPLPV  
YTQFYFFNVTNP EEILRGETPRVEEVGPYTYRELRNKANIQFGDNGTTISAVSNKAYVFE  
RDQSVGDPKIDLIRTLNIPVLTVIEWSQVHFLREIIEAMLKAYQQKLFVTHTVDELLWGY  
KDEILSLIHVFRPDISPYFGLFYEKNGTNDGDYVFLTGEDSYLNFTKIVEWNGKTSLDWW  
ITDKCNMINGTDGDSFHPLITKDEVLYVFP SDFCRSVYITFSDYESVQGLPAFRYKVP AE  
ILANTS DNAGFCIPEGNCLGSGVLNVSICKNGAPIIMSFPHFYQADERFVSAIEGMHPNQ  
EDHETFVDINPLTGIILKAAKRFQINIYVKKLDDFVETGDIRTMVFPV MYLNESVHIDKE  
TASRLKSMINTTLIITNIPYIIMALGVFFGLVFTWLACKGGQSMDEGTADERAPLIRT

>sp|Q6P3W7|SCYL2\_HUMAN SCY1-like protein 2 OS=Homo sapiens GN=SCYL2 PE=1 SV=1

MESMLNKLKSTVTKVTADVTSAVMGNPVTREFDVGRHIASGGNGLAWKIFNGTKKSTKQE  
VAVFVFDKKLIDKYQKFEKDQIIDSLKRGVQQLTRLRHPRLLTQHPLEESRDCLAFCTE  
PVFASLANVLGNWENLPSISPDIKDYKLYDVETKYGLLQVSEGLSFLHSSVKMVHGNT  
PENIILNKSGAWKIMGDFCVSSTNPSEQEPKFPCKEWDPNLPSLCLPNPEYLAPEYILS  
VSCETASDMYSLGTVMYAVFNKGKPIFEVKNQDIYKSFSRQLDQLSRLGSSSLTNIPEEV  
REHVKLLLNVTPTVRPDADQMTKIPFFDDVGAVTLQYFDTLFQRDNLQKSQFFKGLPKVL  
PKLPKRIVQRILPCLTSEFVNPDMPFVLPNVLLIAEECTKEEYVKLILPELGPVFKQQ

EPIQILLIFLQKMDLLLTTPDEIKNSVLPVYRALEAPSIQIQELCLNIIPTFANLID  
YPSMKNALIPRIKNAQLQTSSLAVRVNSLVCLGKILEYLDKWFVLDLILPFLQQIPSKEP  
AVLMGILGIYKCTFTHKKLGITKEQLAGKVLPHLIPLSIENNLNLNQNSFISVIKEMLN  
RLESEHKTKLEQLHIMQEQQKSLDIGNQMNVSSEMKVTNIGNQQIDKVFNNIGADLLTGS  
ESENKEDGLQNKHKRASLTLEEKQKLAKKEQEAQKLKSQQPLKPQVHTPVATVKQTKDLT  
DTLMDNMSSSLTSLSVSTPKSSASSTFTSVPSMGIGMMFSTPTDNTKRNLNGLNANMGFQ  
TSGFNPVNTNQNFYSSPSTVGVTKMTLGTPTLPNPNALSVPPAGAKQTQQRPTDMSAL  
NNLFGPQKPKVSMNQLSQKPNQWLNQFVPPQGSPTMGSSVMGTQMNVIQSAFGMQGNP  
FFNPQNFAQPPTMTNSSSASNDLKDLFG

>sp|Q96T21|SEBP2\_HUMAN Selenocysteine insertion sequence-binding protein 2 OS=Homo sapiens GN=SECISBP2 PE=1 SV=2

MASEGPREPESEGIKLSADVKKPFVPRFAGLNVAWLESSEACVFPSSAATYYPFVQEPVPT  
EQKIYTEDMAFGASTFPPQYLSSEITLHPYAYSPTLDSTQNVYSVPGSQYLYNQPSCYR  
GFQTVKHRNENTCPLPQEMKALFKKTYDEKTYDQQKFDSEADGTISSEIKSARGSHH  
LSIYAENSLKSDGYHKRTRDKSRRIAKNVSTSKPEFEFTTLDPELQGAENNMSEIQKQP  
KWGPVHSVSTDISLLREVVKPAAVLSKGEIVVKNNPNESVTANAATNSPSCRELSTWTPM  
GYVVRQTLSTELSAAPKNVTSMINLKTIIASSADPKNVIPSSEALSSDPSYNKEKHI IHP  
TQSKASQGSDLQNEASRKNKKKKEKSTSKYEVLTVQEPPRIEDAEFFPNLAVASERRD  
RIETPKFQSKQPPQDNFKNNVKKSQLPVQLDLGGMLTALEKKQHSQHAKQSSKPVVSVG  
AVPVLSEKASGERGRRMSQMKTPHNPLDSSAPLMKKGKQREIPKAKKPTSLKKIILKER  
QERKQRLQENAVSPAFTSDDTQDGESGGDDQFPEQAELSGPEGMDLITPSVEDKSEEP  
PGTELQRDTEASHLAPNHTTFPKIHSRRFRDYCSQMLSKEVDACVTDLLKELVRFQDRMY  
QKDPVKAKTKRRLVLGLREVLKHLKLKLCV IISPNC EKIQSKGGLDDLHTI IDYACE  
QNIPFVFALNRKALGRSLNKAVPVSVVGIFSYDGAQDQFHKMVELTVAARQAYKTMLENV  
QQELVGEPRPQAPPSLPTQGPSCPAEDGPPALKEKEEPHYIEIWKKHLEAYSGCTLELEE  
SLEASTSQMMNLNL

>sp|Q9Y399|RT02\_HUMAN 28S ribosomal protein S2, mitochondrial OS=Homo sapiens GN=MRPS2 PE=1 SV=1

MATSSAALPRILGAGARAPSRWLGLGKATPRPARPSRRTLGSATALMIRESEDSTDFND  
KILNEPLKHSDDFFNVKELFSVRSLFDARVHLGHKAGCRHRFMEPYIFGSRLDHD I IDLEQ  
TATHLQLALNFTAHMAYRKGIILFISRNRQFSYLIENMARDCEYAHTRYFRGGMLTNAR  
LLFGPTVRLPDLIIFLHTLNNIFEPHVAVRDAAKMNIPTVGIVDTNCNPCLITYPVP GND  
DSPLAVHLYCRLFQTAITRAKEKRQQVEALYRLQGQKEPGDQGAHPPGADM SHSL

>sp|P82921|RT21\_HUMAN 28S ribosomal protein S21, mitochondrial OS=Homo sapiens GN=MRPS21 PE=1 SV=2

MAKHLKF IARTVMVQEGNVESAYRTLNRILTMDGLIEDIKHRRYYEKPCRRRQRESYERC  
RRIYNMEMARKINFLMRKNRADPWQGC

>sp|Q96EL2|RT24\_HUMAN 28S ribosomal protein S24, mitochondrial OS=Homo sapiens GN=MRPS24 PE=1 SV=1

MAASVCSGLLGPRVLSWSRELPCAWRALHTSPVCAKNRAARVRVSKGDKPVTYEEAHAPH  
YIAHRKGWLSLHTGNLDGEDHAAERTVEDVFLRKFMWGTFFPGCLADQLVLKRRGNQLEIC  
AVVLRQLSPHKYYFLVGYS ETLISYFYKCPVRLHLQTVPSKV VYKYL

>sp|Q9Y265|RUVB1\_HUMAN RuvB-like 1 OS=Homo sapiens GN=RUVBL1 PE=1 SV=1  
MKIEEVKSTTKTQRIASHSHVKGGLGDESGLAKQAASGLVGQENAREACGVIVELIKSKK

MAGRAVLLAGPPGTGTALALAI AQELGSKVPFCPMVGSEVYSTEIKKTEVLMENFRRAI  
GLRIKETKEVYEGEVTELT PCETENPMGGYGKTI SHV I IGLKTAKGTKQLKLDPSIFESL  
QKERVEAGDVIYIEANS GAVKRQGRCDTYATEFDLEAE EYVPLPKGDVHKKKEI IQDVTL  
HDL DVANARPQGGQDILSMMGQLMKPKKTEITDKLRGEINKVVNKYIDQGIAELVPGVLF  
VDEVHMLDIECF TYLHRALESSI APIVIFASNRGNCVIRGTEDITSPHG IPLDLLDRVMI  
IRTMLYTPQEMKQIIKIRAQTEGINIS E EALNHLGEIGTKTTLRYSVQLLTPANLLAKIN  
GKDSIEKEHVEEISEL FYDAKSSAKILADQ QDKYMK

>sp|Q9Y230|RUVB2\_HUMAN RuvB-like 2 OS=Homo sapiens GN=RUVBL2 PE=1 SV=3

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVL  
EMIREGKIAGRAVLIAGQP GTGTAIAMGMAQALGPDPFTA IAGSEIFSLEMSKTEALT  
QAFRRSIGVRIKEETEIEIEGEVVEIQIDRPATGTGSKVGKLT LKTTEMETIYDLG TKMIE  
SLTKDKVQAGDVITIDKATGKISKLR SFTRARDYDAMGSQTKFVQCPDGELQKRKEVVH  
TVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE  
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTT  
PYSEKDTKQILRIRCEEEDVMESEDAYTVL TRIGLETSLRYAIQLITAASLVCRKRKGTE  
VQVDDIKRVYSLFLDES RSTQYMKEYQDAFLF NELKGETMDTS

>sp|Q99500|S1PR3\_HUMAN Sphingosine 1-phosphate receptor 3 OS=Homo sapiens GN=S1PR3 PE=1  
SV=2

MATALPPRLQPVRGNETLREHYQYVGKLAGRLKEASEGSTLT TVLFLVICSFIVLENLMV  
LIAIWKNKFHNRMYFFIGNLALCDLLAGIAYKVNILMSGKKTFSLSPTVWFLREGSMFV  
ALGASTCSLLAIAIERH LTMKMRPYDANKRHRVFL LIGMCWLI AFTLGALPILGWNC LH  
NLPDCSTILPLYSKKYIAFCISIFTAILVTIVILYARIYFLVKSSSRKVANHNN SERSMA  
LLRTVVIVVSVFIACWSPLFILFLIDVACRVQACPILFKAQWFIVLAVLNSAMNPVIYTL  
ASKEMRRAFFRLVCNCLVRGRGARASPIQPALDPSRSKSSSSNSSHSPKV KEDLPHTAP  
SSCIMDKNAALQNGIFCN

>sp|Q8WUG5|S22AH\_HUMAN Solute carrier family 22 member 17 OS=Homo sapiens GN=SLC22A17  
PE=2 SV=1

MASDPIFTLAPPLHCHYGAFPPNASGWEQPPNASGVSVASAALAASAASRVATSTD PSCS  
GFAPPDFNHCLKDWDYNGLPVLT TNAIGQWDLVCDLGWQVILEQILFILGFASGYLFLGY  
PADRFGRRGIVLLTLGLVGPCGVGGAAAGSSTGVMALRFLLGFLLAGVDLG VYLMRLELC  
DPTQRLRVALAGELVGVGGHFLFLGLALVSKDWRFLQRMITAPC ILFLFYGWPGLFLESA  
RWLIVKRQIEEAQSVLRILAERNRPHGQMLGEEAQEALQDLENTCPLPATSSFSFASLLN  
YRNIWKNLLILGFTNFIAHAIRHCYQPVGGGGSPSDFYLC SLLASGTAALACVFLGVTVD  
RFGRRGILLLSMTLTG IASLVLLGLWDCEHPIFPTVWAQQGNPNRDLNEAAITTF SVLGL  
FSSQAAAILSTLLAAEVIPTTVRGRGLGLIMALGALGGLSGPAQRLHMGHGAFLQHVVLA  
ACALLCILSIMLLPETKRKLLPEVLRD GELCRRPSLLRQPPPTRCDHVPLLATPNPAL

>sp|Q8N4F4|S22AO\_HUMAN Solute carrier family 22 member 24 OS=Homo sapiens GN=SLC22A24  
PE=2 SV=1

MGFDVLLDQVGGMR FQICLIAFFCITNILLFPNIVLENFTAFTPSHRCWVPLLDNDSVS  
DNDTGTLSKDDLRLRISIP LDSNLRPQKCQRFIHPQWQLLHLNGTFPNTNEPDTEPCVDGW  
VYDRSSF LSTIVTEWDLVCESQSLKSMVQSLFMAGSLLGGLIYGHLSDRVGRKII CKLCF  
LQLAISNTCAAFAPTFLVY CILRFLAGFSTMTILGNTFILSLEWTLPRSRSMTIMVLLCS  
YSVGQMLLGGLAFAIQDWHILQ LTVSTPIIVLFLSSWYEQSPHSLPVSEAMVDIERKIVT  
PGICSVSGLVLSHDVHSTYCVT

>sp|Q8WUT9|S2543\_HUMAN Solute carrier family 25 member 43 OS=Homo sapiens GN=SLC25A43 PE=2 SV=2

MATWRRDGRLTGGQRLLCAGLAGTLSLSLTAPLELATVLAQVGVRGHARGPWATGHRVW  
RAEGLRALWKGNAVACLRLFPSCAVQLAAYRKFFVLTDDLGHISQWSSIMAGSLAGMVS  
TIVTYPTDLIKTRLIMQNILEPSYRGLLHAFSTIYQQEGFLALYRGVSLTVVGALPFSAG  
SLLVYMNLEKIWNGPRDQFSLPQNFANVCLAAAVTQTLSFPFETVKRKMQAQSPYLPHSG  
GVDVHFSGAVDCFRQIVKAQGVGLWNGLTANLLKIVPYFGIMFSTFEFCKRICLYQNGY  
ILSPLSYKLTPGVDQSLQPQELRELKKFFKTRKPKPKKPTL

>sp|Q8N413|S2545\_HUMAN Solute carrier family 25 member 45 OS=Homo sapiens GN=SLC25A45 PE=2 SV=2

MPVEEFVAGWISGALGLVLGHPFDTVKVRLQTQTTYRGIVDCMVKIYRHESLLGFFKGMS  
FPIASIAVNVSVLFGVYSNTLLVLTATSHQERRAQPPSYMHIFLAGCTGGFLQAYCLAPF  
DLIKVRLQNQTEPRAQPGSPPPRYQGPVHCAASIFREEGPRGLFRGAWALTLRDTPTVGI  
YFITYEGLCRQYTPPEGQNPSSATVLVAGGFAGIASWVAATPLDMIKSRMQMDGLRRRVYQ  
GMLDCMVSSIRQEGLVFFRGVTINSARAFPVNAVTFLSYEYLLRWG

>sp|Q8TE54|S26A7\_HUMAN Anion exchange transporter OS=Homo sapiens GN=SLC26A7 PE=2 SV=2

MTGAKRKKKSMWSKMHTPQCEDIQWCRRRLPILDWAPHYNLKENLLPDTVSGIMLAVQ  
QVTQGLAFVLSSVHPVFLGLYSLFPATIIYAIFGMGHHVATGTFALTSLISANAVERIVP  
QNMQNLTQSNTSVLGLSDFEMQRIHVAAVSFLGGVIQVAMFVLQLGSATFVVTEPVIS  
AMTTGAATHVVTQVKYLLGMKMPYISGPLGFFIYIAYVFENIKSVRLEALLSLSIVV  
LVLVKELNEQFKRKIKVLPVDLVLIIAASFACYCTNMENTYGLEVVGHIPQGIPSPRAP  
PMNILSAVITEAFGVALVGIVASLALAQGSAKKFKYSIDNQEFLAHGLSNIVSSFFFCI  
PSAAAMGRTAGLYSTGAKTQVACLISCIFVLIVIIYAIGPLLYWLPVCVLASIIIVGLKGM  
LIQFRDLKKYWNVDKIDWGIWVSTYVFTICFAANVGLLFGVVCTIAIVIGRFPRAMTVSI  
KNMKEMEFKVKTEMDSETLQQVKIISINNPLVFLNAKKFYTDLMNMIQKENACNQPLDDI  
SKCEQNTLLNSLNGNCNEEASQSCPNEKCYLILDCSGTFFDYSGVSMLEVEYMDCKGR  
SVDVLLAHCTASLIKAMTYYGNDSEKPIFFESVSAASHIHSNKNLSKLSDHSEV

>sp|O14975|S27A2\_HUMAN Very long-chain acyl-CoA synthetase OS=Homo sapiens GN=SLC27A2 PE=1 SV=2

MLSAIYTVLAGLLFLPLLNLCCPYFFQDIGYFLKVAAGRRVRSYGKRRPARTILRAFL  
EKARQTPHKPFLFRDELTLYAQVDRRSNQVARALHDHLGLRQGDVALLMGNEPAYVWL  
WLGLVKLGACMACLNYNIRAKSLLHCFQCCGAKVLLVSPELQAAVEEILPSLKKDDVSIY  
YVSRSTNDGIDSFLDKVDEVSTPIPESWRSEVTFSTPALYIYTS GTTGLPKAAMITHQ  
RIWYGTGLTFVSGLKADDVIYITLPFYHSAALLIGIHGCIVAGATLALRTKFSASQFWDD  
CRKYNVTVIQYIGELLRYLCNSPQKPNDRDHKVRLALGNLGRGDVWRQFVKRFGDICIYE  
FYAATEGNIGFMNYARKVGAVGRVNYLQKKIITYDLIKYDVEKDEPVRDENGVCVRVPKG  
EVGLLVCKITQLTPFNGYAGAKAQTEKKLRDVFKKGDLYFNSGDLLMVDHENFIYFHDR  
VGDTFRWKGENVATTEVADTVGLVDVQEVNVYGVHVPDHEGRIGMASIKMKENHEFDGK  
KLFQHIADYLPYARPRFLRIQDTIEITGTFKHKMTLVEEGFNPAVIKDALYFLDDTAK  
MYVPMTEDIYNAISAKTLKL

>sp|Q8IWB4|S31A7\_HUMAN Spermatogenesis-associated protein 31A7 OS=Homo sapiens GN=SPATA31A7 PE=2 SV=4

MENLPFPLKLLSASSLNAPSSTPWVLDIFLTLVFALGFFFLPYLSYFRCDPPSPSPG  
KRKCPVGRRRRPRGRMKNSLRAGRECPRGLEETSDLLSQLQSLGPHLDKGDFGQLSGP

DPPGEVGERAPDGASQSSHEPMEDAAPILSPLASDPQAKHPQDLASTPSPGPMTTSVSS  
LSASQPPEPSLPLEHPSPEPPALFPHPPHTPDPLACSLPPPKGFTAPPLRDSTLITPSHC  
DSVAFPLGTVPQSLSPHEDLVASVPAISGLGGSNSHVSASSRWQETARTSCAFNSSVQQD  
HLRHPPETCQMEAGSLFLLSSDGQNVVGIIQVTETAKVNIWEEKENVGSFTNRMTPEKHL  
NYLRNLAKSLDAEQDTTNPKPFWNMGENSKQLPGPQKLSDPRLWQESFWKNYSQLFWGLP  
SLHSESLVANAWVTDRSYTLQSPFFLFNEMSNVCP IQRETTMSPLL FQAQPLSHLGPECQ  
PFISSTPQFRPTMAQAEQAHLQSSFPVLSPAAPSLIQNTGVACPASQNKVQALSLPET  
QHPEWPLLRRQLEGRALPSRVQKSQDVFSVSTPNLPQESLTSILPENFPVSPELRRQLE  
QHIKKWIIQHWGNLGR IQESLDLMQLRDESPGTSQAKGKPSPWQSSMSTGESSKEAQKVK  
FQLERDPCPHLGQILGETPQNLSRDMKSFPRKVLGVTSEELERNLRKPLRSDSGSDLLRC  
TERTHIENILKAHMRNLGQTNEGLIPVCVRRSWLAVNQALPVSNTHVKTSNLAAPKSGK  
ACVNTAQVLSFLEPCTQQGLGAHIVRFWAKHRWGLPLRVLPKIQCFKLEKVSSLSLTQLA  
GPSSATCESGAGSEVEVDMFLRKPPMASLRKQVLTKASDHMPESLLASSPAWKQFQRAPR  
GIPSWNDHEPLKPPAGQEGRWPSKPLTYSLTGSIQQSRLGAQSSKAGETREAVPQCRV  
PLETCMLANLQATSEVDHGFEAPGTSKSSHLPRVSVSQDPRKLC LMEEVVNEFEPGMATK  
SETQPQVCAAVLLPDGQASVVPHASENLVSQVPQGHLSMPTGNMRASQELHDLMAARR  
SKLVHEEPRNPNCQGSKSQRPMPFPIHKSEKSRKPNLEKHEERLEGLRTPQLTPVRKTE  
DTHQDEGVQLLPSKKQPPSVSPFGENIKQIFQWIFS KKKSKPAPVTAESQKTVKNRSRVY  
SSSAEAQGLMTAVGQMLDEKMSLCHARHASKVNQHKQKFQAPVCGFPCNHRHLYSEHGR  
ILSYAASSQQATLKSQGCNDRQIRNQQLKSVRCNNEQWGLRHPQILHPKKAVSPVSP  
PQHWPKTSGASSHHHHCPRHCLLWEGI

>sp|B4DYI2|S31C2\_HUMAN Spermatogenesis-associated protein 31C2 OS=Homo sapiens  
GN=SPATA31C2 PE=2 SV=2

MENLPFPLKLLSASSLNTSPSTPWVLDIFLTLVFALGFFFLLLPYFSYLRCNPPSPSPK  
KRRHRLVSQRPAGRRGRPRGRMKNHSLRACRECPRGLEETWDLLSQLQSLLGPHLEKGDF  
GQLSGPDPPGEVGRKTPDGASRSSHEPTEDAAPIVSPLASDPRTKHPQDLASTPPP GPM  
TTSVSSLSASQPPEPSLLEHPSPEPPALFPHPPRTPDPLACSPPPPKGFTPPPLRDSTL  
LTPSHCDSVALPLDTPVQSLSPREDLAASVPGISGLGGSNSQVSALSWSQETTKTWCVFN  
SSVQQDHL SRQRDTMSPLL FQAQPLSHLEPESQPFISSTPQFWPTMAQAEQAHLQSS  
FPVLSPAFLSPMKNTGVACPASQNKVQALSLPETQHPERPLLKKQLEGGLALPSRVQKSQ  
DVFSVSTPNLPQERLTSILPENFPVSPELWRQLEQHMQGRGRIQESLDLMQLQDELPGTS  
QAKGKPRPWQSSSTGESSKEAQTVKFQLERDPCPHLGQILGETPQNLSRGMESFPGKVL  
GATSEESERNLRKPLRSDSGSDLLRRTERNHIENILKAHMSRKLGQTNEGLIPVSVRRSW  
LAVNQAFVPSNTHVKTSNLAAPKSRKACVNTAQVLSFLEPCTQQVLGAHIVRFWAKHRWG  
LPLRVLPKIQCFQLEKVSSLSLIQLAGPSSDTCESGAGSKVEVATFLGEPPMASLRKQVL  
TKPSVHMPERLQASSPACKQFQRAPRGIPSSNDHGSLKAPTAGQEGRWPSKPLTYSLTGS  
TQQSRLGAQSSRAGETREAVPQPTVPLGTCTMRANLQATSEVDVRGFKAPGASKSSLLPRM  
SVSQDPRKLC LMEEAVSEFEPGKATKSETQPQVSATVVLLPDGQASVVPHASENLASQVP  
QGHLSMPTGNMQASQELCDLMSARRSNMGHKEPRNPNCQGSKSQSPMFPPTHKRENSR  
KPNLEKHEEMFQGLRTPQLTPGRKTEDTRQNEGVQLLPSKKQPPSISHFGENIKQFFQTI  
FSKKERKPAPVTAESQKTVKNRSCVYGSSAEERLMTAVGQILEENMSLCHARHASKVNQ  
QRQQFQAPVCGFPCNHRHLYSEHSRMLSYAASSQQATLKNQSRPNDRQIRDQ

>sp|P78382|S35A1\_HUMAN CMP-sialic acid transporter OS=Homo sapiens GN=SLC35A1 PE=2 SV=1  
MAAPRDNVTLLFKLYCLAVMTLMAAVYTIALRYTRTSDKELYFSTTAVCITEVIKLLLSV



GILAKETGSLGRFKASLRENVLGSPKELLKLSVPSLVYAVQNNMAFLALSNLDAAVYQVT  
YQLKIPCTALCTVLMNRTLSKLQWVSFMLCAGVTLVQWKAQATKVVEQNPLLGFGA  
IAIAVLCSGFAGVYFEKVLKSSDTSLVWRNIQMYLSGIIIVTLAGVYLSDGAEIKEKGFFY  
GYTYYVWFVIFLASVGGLYTSVVKYTDNIMKGFSA AAAIIVLSTIASVMLFGLQITLTFA  
LGTL LVCVSIYLYGLPRQDTTSIQQGETASKERVIGV

>sp|P78381|S35A2\_HUMAN UDP-galactose translocator OS=Homo sapiens GN=SLC35A2 PE=1 SV=1  
MAAVGAGGSTAAPGPGAVSAGALEPGTASAAHRRLKYISLAVLVVQNASLILSIRYARTL  
PGDRFFATTAVVMAEVLKGLTCLLLLFAQKRGNVKHLVFLHEAVLVQYVDTLKLAVPSL  
IYTLQNNLQYVAISNLPAAATFQVITYQLKILTALFSVLMLNRSLSRLQWASLLLLFTGVA  
IVQAQQAGGGGPRPLDQNPAGLAAVVASCLSSGFAGVYFEKILKGSSGSVWLRNLQLGL  
FGTALGLVGLWVAEGTAVATRGFFFGYTPAVWGVVLNQAFGGLLVAVVVKYADNILKGFA  
TSLSIVLSTVASIRLFGFHVDPFLAGAGLVIGAVYLYSLPRGAAKAIASASASASGPCV  
HQQPPGQPPPPQLSSHRGDLITEPFLPKLLTKVKGS

>sp|Q6ICL7|S35E4\_HUMAN Solute carrier family 35 member E4 OS=Homo sapiens GN=SLC35E4 PE=2  
SV=1  
MCRCPPPEHHDGRMTSAEVGAAAGGAQAAGPPEWPPGSPQALRQPGRARVAMAALVWLLAG  
ASMSLKNKIWFTVHGFGRPLLLSALHMLVAALACHRGARRPMPGGTRCRVLLLSLTFGTS  
MACGNVGLRAVPLDLAQLVTTTTPLFTLALSALLLGRRHPLQLAAMGPLCLGAACSLAG  
EFRTPTGCGFLAATCLRGLKSVQQSALLQEERLDAVTLTYATSLPSFCLLAGAALVLE  
AGVAPPPTAGDSRLWACILLSCLLSVLYNLASFSLALTSALTVHVLGNLTVVGNLILSR  
LLFGSRLSALSYVGIATLSGMFLYHNCEFVASWAARRGLWRRDQPSKGL

>sp|Q5T1Q4|S35F1\_HUMAN Solute carrier family 35 member F1 OS=Homo sapiens GN=SLC35F1 PE=2  
SV=2  
MIPPEQPQQQLQPPSPAPPNHVVTIENLPAEGSGGGGSLSASSRAGVRQRIRKVLNREM  
LISVALGQVLSLLICGIGLTSKYLSEDFHANTPVFQSFLNYILLFLVYTTTLAVRQGEEN  
LLAILRRRWWKYMILGLIDLEANLYLVKAYQYTTLTSIQLDCFVIPVVILLSWFFLLIR  
YKAVHFIGIVVCILMGCMVGADVLVGRHQGAGENKLVGDLLVLGGATLYGISNVWEEYI  
IRTLRVEFLGMIGLFGAFFSGIQLAIMEHKELLKVPWDWQIGLLYVGFSACMFLYSFM  
PVVIKKT SATSVNLSLLTADLYSLFCGLFLFHYKFSGLYLLSFFTILIGLVLYSSTSTYI  
AQDPRVYKQFRNPSPGVVDLPTTAQVEPSVTYTSLGQETEEEPHVRVA

>sp|Q8IY50|S35F3\_HUMAN Putative thiamine transporter SLC35F3 OS=Homo sapiens GN=SLC35F3  
PE=2 SV=2  
MKKHSARVAPLSACNSPVLTLTKVEGEERPRDSPGPAEAQAPAGVEAGGRASRRCWTCR  
AQLKKIFWGVAVVLCVCSSWAGSTQLAKLTFRKFDAPFTLTWFATNWNFLFFPLYVYGHV  
CKSTEKQSVKQRYRECCRFFGDNGLTKVFFTKAAPFGVLWTLTNYLYLHAIKKINTTDV  
SVLFCCNKAFVLLSWIVLRDRFMGVRIVAAILAIAGIVMMTYADGFHSHSVIGIALVVA  
SASMSALYKVLKLLGSAKFGEAALFLSILGVFNILFITCPIIILYFTKVEYWSSFDDI  
PWGNLCGFSVLLTFNIVLNFGIAVITYPTLSLGLIVLSIPVNAVIDHYTSQIVFNGVRVI  
AIIIIIGLGLLLLLPEEWDVWL IKLLTRLKVRKKEEPAEGAADLSSGPQSKNRRARPSFA  
R

>sp|Q8N357|S35F6\_HUMAN Solute carrier family 35 member F6 OS=Homo sapiens GN=SLC35F6 PE=1  
SV=1  
MAWTKYQLFLAGLMLVTGSINTLSAKWADNFMAEGCGGSKEHSFQHPFLQAVGMFLGEFS  
CLAAFYLLRCRAAGQSDSSVDPQQPFNPLLFLPPALCDMTGTSLMYVALNMTSASSFQML

RGAVIIIFTGLFSVAFLGRRLVLSQWLGLATIAGLVVVGLADLLSKHDSQHKLSEVITGD  
LLIIMAIIVAIQMVLEEKFVYKHNHPLRAVGTEGLFGFVILSLLVPMYYIPAGSFSG  
NPRGTLEDALDAFCQVGGQPLIAVALLGNISSIAFFNFAGISVTKELSATTRMVLDSLRT  
VVIWALSALGWAEFHALQILGFLILLIGTALYNGLHRPLLGRLSRGRPLAESEQERLL  
GGTRTPINDAS

>sp|Q6YBV0|S36A4\_HUMAN Proton-coupled amino acid transporter 4 OS=Homo sapiens GN=SLC36A4  
PE=1 SV=1

MEAAATPAAAGARREELDMVMRPLINEQNFDGTSDEEHEQELLPVQKHQQLDDQEGIS  
FVQTLMHLLKGNIGTGLLGLPLAIKNAGIVLGPISLVFIGIISVHCHILVRCSHFCLLR  
FKKSTLGYSDTVSFAMEVSPWSCLQKQAAWGRSVVDFFLVITQLGFCSVYIVFLAENVKQ  
VHEGFLESKVFISSNTSSNPCERRSVDLRIYMLCFLPFIILLVFIRELKNLFVLSFLAN  
VSMASVLVYIYQYVVRNMPDPHNLPIVAGWKYPLFFGTAVFAFEGIGVVLPLENQMKES  
KRFPQALNIGMGIIVTTLVTLATLGYMCFHDEIKGSITLNLQDVWLYQSVKILYSFGIF  
VTYSIQFYVPAEIIIPGITSKFHTKWKQICEFGIRSFLVSITCAGAILIPRLDIVISFVG  
AVSSSTLALILPPLVEILTFSEHYNIWMVLKNISIAFTGVVGFLGTYYITVEEIIYPTP  
KVVAGTPQSPFLNLNSTCLTSGLK

>sp|Q9H2H9|S38A1\_HUMAN Sodium-coupled neutral amino acid transporter 1 OS=Homo sapiens  
GN=SLC38A1 PE=1 SV=1

MMHFKSGLELTELQNMTPEDDNISNDSNDFTEVENGGINSKFISDRESRRSLTNSHLEK  
KKCDEYIPGTTSLGMSVFNLSNAIMGSGILGLAFALANTGILLFLVLLTSVTLLSIYSIN  
LLLICKSKETGCMVYEKLGEQVFGTTGKFVIFGATSLQNTGAMLSYLFIVKNELPSAIKFL  
MGKEETFSAWYVDGRVLVIVTFGIILPLCLLKNLGYLGYTSGFSLSCMVFFLIVVIYKK  
FQIPCIVPELNSTISANSTNADCTPKYVTFNSKTVYALPTIAFAFVCHPSVLPYSELK  
DRSQKKMQMVSNISFFAMFVYFLTAIFGYLTFYDNVQSDLLHKYQSKDDILILTVRLAV  
IVAVILTVPVLFFTVRSSFLAKKTKFNLCRHTVVTICILLVINLLVIFIPSMKDIFGV  
VGVTSANMLIFILPSSLYLKITDQDGDKGTQRIWAALFLGLGVLFSLVSIPLVIYDWACS  
SSSDEGH

>sp|Q969I6|S38A4\_HUMAN Sodium-coupled neutral amino acid transporter 4 OS=Homo sapiens  
GN=SLC38A4 PE=1 SV=1

MDPMELRNVNIEPDDESSSGESAPDSYIGIGNSEKAAMSSQFANEDTESQKFLTNGFLGK  
KKLADYADEHHPGTTSTFGMSSFNLNAIMGSGILGLSYAMANTGIILFIIMLLAVAILSL  
YSVHLLKTAKEGGLIYEKLGEKAFGWPGKIGAFVSITMQNIGAMSSYLFIIKYELPEV  
IRAFMGLEENTGEWYLNNGYLIIFVSVGIIPLSLLKNLGYLGYTSGFSLTCMVFFVSVV  
IYKKFQIPCPLPVLDSHVGNSFNNTLPMHVVMLPNNSESSDVNFMDYTHRNPAGLDEN  
QAKGSLHDSGVEYEAHSDDKCEPKYFVFNSRTAYAIPILVFAFVCHPEVLPYSELKDRS  
RRKMQTVSNISITGMLVMYLLAALFGYLTIFYGEVEDELLHAYSKVYTLDIPLLMVRLAVL  
VAVTLTVPIVLPFIRTSVITLLFPKRPFSWIRHFLIAAVLIAALNNVLVILVPTIKYIFGF  
IGASSATMLIFILPAVFYKLKVKETFRSPQKVGALIFLVVGIFFMIGSMALIIIDWIYD  
PPNSKHH

>sp|Q8IZM9|S38A6\_HUMAN Probable sodium-coupled neutral amino acid transporter 6 OS=Homo  
sapiens GN=SLC38A6 PE=1 SV=2

MEASWGSFNAERGWWYVSQQPEEAEEELSPLLSNELHRQRSPGVSFGLSVFNLMAIMG  
SGILGLAYVLANTGVFGFSFLLLTVALLASYSVHLLSMCIQTAVTSYEDLGLFAFGLPG  
KLVVAGTIIIQNIGAMSSYLLIIKTELPAAIAEFLTGDYSRYWYLDGQTLLIIICVGIVF

PLALLPKIGFLGYTSSLSFFFMMFFALVVIKKWSIPCPLTLNYVEKGFQISNVTDDCKP  
KLFHFSKESAYALPTMAFSFLCHTSILPIYCELQSPSKKRMQNVNTAIALSFLIYFISA  
LFGYLTFYDKVESELLKGYSKYLSDVVMVTKLCILFAVLLTVPLIHFPARKAVTMMFF  
SNPFPSWIRHFLITLALNIIIVLLAIYVPDIRNVFGVVGASTSTCLIFIPGLFYLKLSR  
EDFLSWKKLGAFVLLIFGILVGNFSLALIIFDWINK

>sp|Q8NBW4|S38A9\_HUMAN Sodium-coupled neutral amino acid transporter 9 OS=Homo sapiens  
GN=SLC38A9 PE=1 SV=2

MANMNSDSRHLGTSEVDHERDPGPMNIQFEPSDLRSKRPFCEPTNIVNVNHVIQRVSDH  
ASAMNKRIHYYSRLTTPADKALIAPDHVPAPEECYVYSPLGSAYKLQSYTEGYGKNTSL  
VTIFMIWNTMMGTSILSIPWGIKQAGFTTGMCVIILMGLLTLYCCYRVKSRTMMFSLDT  
TSWEYDPVCRHYFGSFGQWSSLLFSLVSLIGAMIVYWVLSNLFNTGKFIFNFIHHIND  
TDTILSTNNSNPVICPSAGSGGHPDNSSMIFYANDTGAQQFEKWWDKSRTPFYLVGLLL  
PLLNFKSPSFFSKFNILGTVSVLYLIFLVTFAVRLGFHLEFWFIPTEFFVPEIRFQFP  
QLTGVLTLAFFIHNCIITLLKNNKKQENNVLDLCIAYMLVTLTYLYIGVLVFASFPSPL  
SKDCIEQNFLDNFPSSDTLSFIARIFLLFQMMTVYPLLGYLARVQLLGHI FGDIYPSIFH  
VLILNLIIVGAGVIMACFYPNIGGIIRYSGAACGLAFVFIYPSLIYIISLHQEERLTWPK  
LIFHVFIILGVANLIVQFFM

>sp|Q08AI6|S38AB\_HUMAN Putative sodium-coupled neutral amino acid transporter 11 OS=Homo  
sapiens GN=SLC38A11 PE=2 SV=1

MKQAGFPLGILLFWVSYVTFDSLVLLIKGGALSGTDYQSLVNKTGFGPGYLLSVLQF  
LYPFIAMISYNIAGDTLSKVFRIPGVDPENVFIGRHFIIGLSTVTFTLPLSLYRNIAK  
LGKVSLLSTGLTTLILGIVMARAIISLGPHIPKTEDAWVFAKPNAIQAVGVMSFAFICHHN  
SFLVYSSLEEPTVAKWSRLIHMSIVISVFICIFFATCGYLTFTGFTQGDLFENYCRNDDL  
VTFGRFCYGVTVILTYPMECFVTREVIANVFFGGNLSSVFHIVVTVMVITVATLVSLID  
CLGIVLELNGVLCATPLIFIIPSACYLKLSEEPRTSDKIMSCVMLPIGAVVMVFGFVMA  
ITNTQDCTHGQEMFYCFPDNFSLTNTSESHVQQTQLSTLNISIFQ

>sp|Q9NY26|S39A1\_HUMAN Zinc transporter ZIP1 OS=Homo sapiens GN=SLC39A1 PE=1 SV=1

MGPWGEPELLVWRPEAVASEPPVPVGLEVKLGALVLLVLTLLCSLPICVLRPGANHE  
GSASRQKALSLVSCFAGGVFLATCLDLLPDYLAIDEALAALHVTLQFPLQEFILAMGF  
FLVLVMEQITLAYKEQSGPSPLEETRALLGTVNGGPQHWHGPGVPQASGAPATPSALRA  
CVLVFSLALHSVFEGVLAVGLQRDRARAMELCALLLHKGILAVSLSLRLLQSHLRAQVVA  
GCGILFSCMTPLGIGLAALAESAGPLHQLAQSVLEGMAAGTFLYITFLEILPQELASSE  
QRILKVILLLAGFALLTGLLFIQI

>sp|Q9BRY0|S39A3\_HUMAN Zinc transporter ZIP3 OS=Homo sapiens GN=SLC39A3 PE=1 SV=2

MVKLLVAKILCMVGVFFMLLGSLLPVKIIETDFEKAHRSKILSLCNTFGGGVFLATCF  
NALLPAVREKLQKVLSLGHISTDYPLAETIILLGFFMTVFLEQLILTRKEKPSFIDLET  
FNAGSDVGSDEYESPFMGARGHALYVEPHGHGPSLSVQGLSRASPVRLSLAFALSAH  
SVFEGALGLQEEGEKVVSFLVGVAVHETLVAVALGISMARSAMPLRDAAKLAVTVSAMI  
PLGIGLGLGIESAQVPGSVASVLLQGLAGGTFLFITFLEILAKELEEKSDRLLKVLFLV  
LGYTVLAGMVFLKW

>sp|Q6P5W5|S39A4\_HUMAN Zinc transporter ZIP4 OS=Homo sapiens GN=SLC39A4 PE=1 SV=3

MASLVSELEGLLLAVLVVTATASPPAGLLSLLTSGQGALDQEALGLLNTLADRVHCANG  
PCGKCLSVEDALGLGEPEGSGLPVLEARYVARLSAAVLYLSNPEGTCEDARAGLWA  
SHADHLLALLESPKALTPLSWLLQRMQARAAGQTPKTACVDIPQLLEEAVGAGAPGSAG

GVLAALLDHVRSGSCFHALPSPQYFVDFVFQQHSSEVPMTLAELSALMQRLGVGREAHSD  
HSHRHRGASSRDPVPLISSNSSSVWDTVCLSARDVMAAYGLSEQAGVTPEAWAQLSPAL  
LQQQLSGACTSQSRPPVQDQLSQSERYLYGSLATLLICLCAVFGLLLLTCTGCRGVTHYI  
LQTFLSLAVGALTGDAVLHLTPKVLGLHTHSEEGLSQPQTRWLLAMLAGLYAFFLFENLF  
NLLLPRDPEDLEDGPCGHSSSHGGHSHGVSLQLAPSELRQPKPPHEGSRADLVAEESPE  
LLNPEPRRLSPELRLPYMITLGDVHNFADGLAVGAFASSWKTGLATSLAVFCHELPH  
ELGDFAALLHAGLSVRQALLNLASALTAFAGLYVALAVGVSESEAWILAVATGLFLYV  
ALCDMLPAMLKVRDRPWLLFLLHNVGLLGGWTVLLLLSLYEDDITF

>sp|Q8NB15|S43A3\_HUMAN Solute carrier family 43 member 3 OS=Homo sapiens GN=SLC43A3 PE=1 SV=2

MAGQGLPLHVATLLTGLLECLGFAGVLFGWPSLVFVFKNEDYFKDLCPDAGPIGNATGQ  
ADCKAQDERFSLIFTLGSFMNNFMFTPTGYIFDRFKTTVARLIAIFFYTTATLIIAFTSA  
GSAVLLFLAMPMLTIGGILFLITNLQIGNLFGQHRSTIITLYNGAFDSSSAVFLIIKLLY  
EKGISLRASFIFISVCSTWHVARTFLLMPRGHIPYPLPPNYSYGLCPGNGTTKEEKETAE  
HENRELQSKEFLSAKEETPGAGQKQELRSFWSYAFSRRFAWHLVWLSVIQLWHYLFITL  
NSLLTNMAGGDMARVSTYTNAFAFTQFGVLCAPWNGLLMDRLKQKYQKEARKTGSSTLAV  
ALCSTVPSLALTSLCLGFALCASVPILPLQYLTFILQVISRSFLYGSNA AFLTLAFPSE  
HFGKLFGLVMALSAVVSLQFPIFTLIKGSLQNDPFYVNVMFMLAILLTFHFPFLVYREC  
RTWKESPSAIA

>sp|Q86VL8|S47A2\_HUMAN Multidrug and toxin extrusion protein 2 OS=Homo sapiens GN=SLC47A2 PE=1 SV=1

MDSLQDTVALDHGGCCPALSRVPRGFGTEMWTLFALSGPLFLFQVLTFMIYIVSTVFCG  
HLGKVELASVTLAVAFVNVCGVSVGVGLSSACDTLMSQSFSGSPNKKHVGVILQRGALVLL  
LCCLPCWALFLNTQHILLFRQDPDVSRLTQDYVMIFIPGLPVIFLYNLLAKYLQNGWL  
KGQEEESPFTPGLSILHPSHSHLSRASFHFLFQKITWPQVLSGVVGCNVCNGVANYALVSV  
LNLGVRGSAYANIIISQFAQTVFLLLYIVLKKLHLETWAGWSSQCLQDWGPFFSLAVPSML  
MICVEWWAYEIGSFMLGLLSVVDLSAQAVIYEVATVTYMIPLGLSIGVCVRVGMALGAAD  
TVQAKRSVSGVLSIVGISLVLTLSILKNQLGHIFTNEDVIALVSQVLPVYSVFHVF  
EAICCVYGGVLRGTGKQAFGAAVNAITYYIIGLPLGILLTFVVRMRIMGLWLGMLACVFL  
ATAAFVAYTARLDWKLAEEEAKKHSRQQQRAESTATRPGEKAVLSSVATGSSPGITL  
TTYRSRSECHVDFFRTPEEAHALSAPTSRLSVKQLVIRGAALGAASATLMVGLTVRILAT  
RH

>sp|Q2Y0W8|S4A8\_HUMAN Electroneutral sodium bicarbonate exchanger 1 OS=Homo sapiens GN=SLC4A8 PE=1 SV=1

MPAAGSNEPDGVLASYQRPDEEAVVDQGGTSTILNIHYEKEELEGHRTLYVGVRMPLGRQS  
HRHHRTHGQKHRRRGRGKGASQGEEGLEALAHDTPSQRVQFILGTEEDEEHVPHELFTEL  
DEICMKEGEDAEWKETARWLKFEEDVEDGGERWSKPYVATLSLHSLFELRSCLINGTVLL  
DMHANSIEEISDLILDQQLSSDLNDSMRVKVREALKKHHHQNEKKRNNLIPIVRSFAE  
VGKKQSDPHLMDKHGQTVSPQSVPTTNLEVKNGVNCESPVDSLKVDLHFMKKIPTGAEA  
SNVLVEVDILDRPIVAFVRLSPAVLLSGLTEVPIPTRFLFILLGPVGKGQYHEIGRSM  
ATIMTDEIFHDVAYKAKERDDLAGIDEFLDQVTVLPGEWDPSIRIEPPKNVPSQEKRK  
MPGVPNGNVCHIEQEPHGGHSGPELQRTGRLFGGLVLDIKRKAPWYWSYRDALSLQCLA  
SFLFLYCACMSPVITFGGLLGEATEGRISAIESLFGASMTGIAYSLEFAGQALTILGSTGP  
VLVFEKILFKCKDYALSYLSLRACIGLWTAFLCIVLVATDASSLVCIYITRFTEEAFASL

ICIIFIYEAEKLIHLAETYP IHMSQLDHL SLYYCRCTLPENPNH TLQYWKDHNIVTA  
EVHWANLTVSECQEMHGEFMGSACGHHGPYTPDVLFWSCILFFTTFILSSTLKTFTKTSRY  
FPTRVRSMVSDFAVFLTIFTMVIIDFLIGVPSPKLQVPSVFKPTRDDRGWIINPIGPNPW  
WTVIAAIIPALLCTILIFMDQQITAVI INRKEHKLKKGCGYHLDLLMVAIMLGVC SIMGL  
PWFVAATVLSITHVNSLKLESECSAPGEQPKFLGIREQRTGLMIFVLMGCSVFM TAILK  
FIPMPVLYGVFLYMGVSSLQGIQFFDRLKLFGMPAKHQPDFIYLRHVPLRKVHLFTLIQL  
TCLVLLWVIKASPAAIVFPMMLALVFVRKVM DCF SKRELSWLDLMPESKKKKLDDAK  
KKAKEEEEAEKMLEIGGDKFPLESRKLLSSPGKNISCRCDPSEINISDEMPKTTVWKALS  
MNSGNAKEKSLFN

>sp|Q9HAB3|S52A2\_HUMAN Solute carrier family 52, riboflavin transporter, member 2 OS=Homo sapiens GN=SLC52A2 PE=1 SV=1

MAAPTARPVLTLLVALFGMGSWA AVNGI WVLPVVVKELPEGWSLPSYVSVLVALGNL  
GLLVVTLWRR LAPGKDEQVPIRVVQVLGMVGTALLASLWHHVAPVAGQLHSVAFLALAFV  
LALACCASNVTFLPFLSHLPPRFLRSFFLGQGLSALLPCVLALVQGVGRLECPPAPINGT  
PGPPLDFLERFPASTFFWALTALLVASAAAFQGLLLLLPPPPSVPTGELGSGLVQGAPGA  
EEEVEESSPLQEPPSQAAGTTPGDPKAYQLLSARSACLLGLLAATNALTNGVLP AVQSF  
SCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGGLSLLGVFCGGYLMALAVLS  
PCPPLVGTSAGVVLVLSWVLCGVFSYVKVAASSLLHGGGRPALLAAGVAIQVGSLLGA  
VAMFPPTSIYHVFSRKDCADPCDS

>sp|Q9Y3Z3|SAMH1\_HUMAN Deoxynucleoside triphosphate triphosphohydrolase SAMHD1 OS=Homo sapiens GN=SAMHD1 PE=1 SV=2

MQRADSEQPSKRPRCDDSPRTSPNTPSAEADWSPGLELHPDYKTWGPEQVCSFLRRGGFE  
EPVLLKNIRENEITGALLPCLDESRFENLGVSSLGERKKLLSYIQR LVQIHVDTMKVIND  
PIHGHIELHPLLVRIDTPQFQRLRYIKQLGGGYVFP GASHNRF EHS LGVGYLAGCLVH  
ALGEKQPELQISERDVL CVQIAGLCHDLGHGPF SHMFDGRFIPLARPEVKWTHEQGSVMM  
FEHLINSNGIKPVMEQYGLIPEEDICFIKEQIVGPLES PVEDSLWPYKGRPENKSFLYEI  
VSNKRNGIDVDKWDYFARDCHHLGIQNNFDYKRFIKFARVCEVDNELRICARDKEVGNLY  
DMFHTRNSLHRRAYQHKVGNIIDTMITDAFLKADDYIEITGAGGKKYRISTAI DDMEAYT  
KLTDNIFLEILYSTDPKLKDAREILKQIEYRNLFKYVGETQPTGQIKIKREDYESLPKEV  
ASAKPKVLLDVKLKAEDFIVDVINMDYGMQEKNPIDHVSFYCKTAPNRAIRITKNQVSQL  
LPEKF AEQLIRVYCKKVDRKSLYAARQYFVQWCADRNFTKPQDGDVIAPLITPQKKEWND  
STSVQNPTRLREASKSRVQLFKDDPM

>sp|P02743|SAMP\_HUMAN Serum amyloid P-component OS=Homo sapiens GN=APCS PE=1 SV=2

MNKPLLWISVLTSLLEAFAHTDL SGKVVFVPRESVTDHVN LITPLEKPLQNFTLCFRAYS  
DLSRAYSLFSYNTQGRDNELLVYKERVGEYSLYIGRHKVTSKVIEKFPAPVHICVSWESS  
SGIAEFWINGTPLVKKGLRQGYFVEAQPKIVLGQE QDSYGKFD RSQS FVGEIGDLYMWD  
SVLP PENILSAYQGTPLPANILDWQALN YEIRGYV I I KPLVWV

>sp|Q9NR31|SAR1A\_HUMAN GTP-binding protein SAR1a OS=Homo sapiens GN=SAR1A PE=1 SV=1

MSFIFEWIYNGFSSVLQFLGLYKKSGLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPT  
SEELTIAGMTFTTDFDLGGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVELNALMT  
DETISNVPILILGNKIDRTDAISEEKLREIFGLYGQTTGKGNVTLKELNARPM EVFMCSV  
LKRQGYGEGFRWLSQYID

>sp|Q9UL12|SARDH\_HUMAN Sarcosine dehydrogenase, mitochondrial OS=Homo sapiens GN=SARDH PE=1 SV=1

MASLSRALRVAAAHPRQSPTRGMGPCNLSSAAGPTAEKSVPYQRTLKEGQGTSVVAQGPS  
RPLPSTANVVVIGGGSLGCQTLYHLAKLMSGAVLLERERLTSGTTWHTAGLLWQLRPSD  
VEVELLAHTRRVVSRELEETGLHTGWIQNGGLFIASNRQRLDEYKRLMSLGKAYGVESH  
VLSPAETKTLYPLMNVDLYGTLVPHDGTMDPAGTCTTLARAASARGAQVIENCPVTGI  
RVWTDDFGVRRVAGVETQHGSIQTPCVVNCAGVWASAVGRMAGVKVPLVAMHHAYVTER  
IEGIQNMPNVRDHDAVSYYRLQGDALSVGGYEANPIFWEEVSDKFAFGLFDLDWEVFTQH  
IEGAINRVPVLEKTGKSTVCGPESFTPDHKPLMGEAPELRGFFLGCGFNSAGMMLGGGC  
GQELAHWI IHGRPEKDMHGDIIRRFHSLTDHPRWIRERSHESYAKNYSVVFPHDEPLAG  
RNMRRDPLHEELLGGCVFQERHGWERPWFHPRGPAPVLEYDYYGAYGSAHEDYAYRR  
LLADEYTFAPPHDHTIKKECLACRGAAVFDMSYFGKFYLVGLDARKAADWLFSAVSR  
PPGSTVYTCLNHRGGTESDLTVSRLAPSHQASPLAPAFEGDGYLAMGGAVAQHNWSHI  
TTVLQDQKSQCQLIDSSDLGMISIQGPASRAILQEVLADLSNEAFPFSTHKLLRAAGH  
LVRAMRLSFVGELGWELHIPKASCVPVYRAVMAAGAKHGLINAGYRAIDSLSIEKGYRHW  
HADLRPDSPLEAGLAFTCKLSPVPFLGREALEQQRAAGLRRLVCFTMEDKVPFMFGL  
AIWRNGQVVGHVRRADFGAIDKTIAYGYIHDPSSGGPVSLDFVKSGDYALERMGVTYGAQ  
AHLKSPFDPNNKRVKGIY

>sp|P82979|SARNP\_HUMAN SAP domain-containing ribonucleoprotein OS=Homo sapiens GN=SARNP  
PE=1 SV=3

MATETVELHKLKLAELKQECLARGLETGKIKQDLIHRLQAYLEEHAEEEEANEDVLGDET  
EEEETKPIELPVKEEPPPEKTVDAAEKKVKITSEIPQTERMQKRAERFNVPSLESKK  
AARAARFGISSVPTKGLSSDNKPMVNLDKLKERAQRFGNLVSSISRKSEDEKLKKRKER  
FGIVTSSAGTGTTEDEAKKKRAERFGIA

>sp|Q6UVJ0|SAS6\_HUMAN Spindle assembly abnormal protein 6 homolog OS=Homo sapiens GN=SASS6  
PE=1 SV=1

MSQVLFHQLVPLQVKCKDCEERRVSIRMSIELQSVSNPVHRKDLVIRLTDDTDPFFLYNL  
VISEEDFQSLKFQQLLVDFLAFPPQKFIDLLQCTQEHAKIIPRFLQLVSPAAILDNSP  
AFLNVVETNPFKHLTHLSLKLPGNDVEIKKFLAGCLKCSKEEKL SLMQSLDDATKQLDF  
TRKTLAEKKQELDKLRNEWASHTAALTNKHSQELTNEKEKALQAQVYQQQHEQQKKDLE  
ILHQQNIHQNLQNRLESELAANKDLTERKYKGDSTIRELKAKLSGVEEELQRTKQEVLSLR  
RENSTLDVECHEKEKHVNQLQTKVAVLEQEI KDKDQLVLRKEAFDTIQEQKVLEENGE  
KNQVQLGKLEATIKLSAELLKANEI IKKLQGD LKTLMGKLKLNVTVIQQEKLLAEKEE  
KLQKEQKELQDVQGSLRIKEQEVCKLQEQLEATVKKLEESKQLLNNEKLI TWLNKELNE  
NQLVRKQDVLGPSTTPPAHSSSNTIRSGISP NLNVVDGRLTYPTCGIGYPVSSAFQNT  
FPHSISAKNTSHPGSGTKVQFNLQFTKPNASLGDVQSGATISMP CSTDKENGENVGLESK  
YLKKREDSIPLRGLSQNLFSNSDHQRDGTGALHTSSKPTALPSASSAYFPGQLPNS

>sp|Q01826|SATB1\_HUMAN DNA-binding protein SATB1 OS=Homo sapiens GN=SATB1 PE=1 SV=1

MDHLNEATQGEHSEMSNNVSDPKGPPAKIARLEQNGSPLGRGLGSTGAKMQGVPLKHS  
GHLMKTNLRKGTMLPVFCVVEHYENAIEYDCKEEHAEFVLVRKDMLFNQLIEMALLSLGY  
SHSSAAQAKGLIQVGKWNVPVLSYVTDAPDATVADMLQDVYHVVT LKIQ LHSCPKEIDL  
PEQWSHTTVRNALKDLLKDMNQSSLAKECPLSQSMISSIVNSTYYANVSAAKCQEFGRWY  
KHFKKTKDMMVEMDSLSELSQQGANHVNFGQQPVPGNTAEQPPSPAQLSHGSQPSVRTPL  
PNLHPGLVSTPISPQLVNQQLVMAQLLNQQYAVNRLLAQQLNQQYLNHPPPVSRSMNKP  
LEQQVSTNTEVSSEIYQWVRDELKRAGISQAVFARVAFNRTQGLLEILRKEEDPKTASQ  
SLLVNL RAMQNFLQLPEAERDRIYQDERERSLNAASAMGPAPLISTPPSRPPQVKTATIA

TERN GK PENNT MNINASIYDEIQQEMKRAKVSQALFAKVAATKSQGWLCCELLRWKEDPSP  
ENRTLWENLSMIRRFSLPQPERDAIYEQESNAVHHHGD RPPHI IHVPAEQIQQQQQQQQ  
QQQQQQQAPPPQPQQPQTGPRLPPRQPTVASPAESDEENRQKTRPRTKISVEALGILQ  
SFIQDVGLYPDEEAIQTLAQDLDPKYTI IKFFQNQRYYLKHHGKLKDNSGLEVDVAEYK  
EEELLKDLEESVDKNTNTLFSVKLEELSVEGNTDINTDLKD

>sp|Q86VE3|SATL1\_HUMAN Spermidine/spermine N(1)-acetyltransferase-like protein 1 OS=Homo sapiens GN=SATL1 PE=2 SV=3

MSPPGMWQPGVQQPGISQQVPSHPDMSQPGMSQQVPSQPGIRQPDTSQSCKNQTDMSQPD  
ANQSSLSDSNQTGI IQSPSLLGMNQMDMNQWSASLYEMNQVDMKQPSMSQAGMRQSGTN  
LPDINQPGMKQPGTWQLGRSQPGMWQSLSELVLSEASISQPGPPQRAPSSQSGPRQSSTS  
QAGTNQSGISQPVMWQLDMRQSGGSQPSMRQVGTSQSGTSQIGMSQPGTWQGLSQPVPR  
QPNKSPPGMWQRGMWQPGMSQQVPSQLGMRQPGTSQSSKNQTMGSHPRGQPGIWEPPGPS  
QPGLSQQDLNQLVLSQPGLSQPGRSQPSVSQMGMRTSMDYFQIRHAEAGDCPEILRLIK  
ELAACENMLDAMELTAADLLRDGFQDNPLFYCLIAEVNDQKPSGKLTVG FAMYFYTYDS  
WTGKVLYLEDFYVTQAYQGLGIGAEMLKRLSQIAITTCNCMHFLVVIWNQASINYTSR  
GALDLSSEEGWHLFRFNREELDMAWEE

>sp|P43007|SATT\_HUMAN Neutral amino acid transporter A OS=Homo sapiens GN=SLC1A4 PE=1 SV=1

MEKSNETNGYLDSAQAGPAAGPGAPGTAAGRARRCAGFLRRQALVLLTVSGVLGAGLGA  
ALRGLSLSRTQVTYLAFPGEMLLRMLRMIILPLVVC SLVSGAASLDASCLGRLGGIAYAY  
FGLTTLASALAVALAFI IKPGSGAQTLSDDLGLSDSGPPVPKETVDSFLDLARNLFP  
SNLVAAFRTYATDYKVVTQNSSSGNVTHEKIPIGTEIEGMNIGLVLFALVLGVALKKL  
GSEGEDLIRFFNSLNEATMVLVSWIMWYVPVGIMFLVGSKIVEMKDIIVLVTSLGKYIFA  
SILGHVHGGIVLPLIYFVFTRKNPFRFLGLLAPFATAFATC SSSATLP SMMKCIEENN  
GVDKRISR FILPIGATVNMDGAAIFQCVAAVFIAQLNNVELNAGQIFTILVTATASSVGA  
AGVPAGGVLTIAIILEAIGLPTHDLPLILAVDWIVDR TTTVVNVEGDALGAGILHHLNQK  
ATKKGEQELA EVKVEAIPNCKSEETSP LVTHQNPAGPVASAPELESKESVL

>sp|Q9Y3A5|SBDS\_HUMAN Ribosome maturation protein SBDS OS=Homo sapiens GN=SBDS PE=1 SV=4

MSIFTPTNQIRLTNAVVRMRKAGKRFEIACYKNKVVGWRSGVEKDLDEV LQTHSVFVNV  
SKGQVAKKEDLISAFGTDDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCV  
NPETKRPTYVILIERAMKDIHYSVKTNKSTKQQALEVIKQLKEKMKIERAHMRLRFILPV  
NEGKKLKEKLKPLIKVIESEDYGGQLEIVCLIDPGCFREIDELIKKETKGKGSLEVLNLK  
DVEEGDEKFE

>sp|POC264|SBK3\_HUMAN Uncharacterized serine/threonine-protein kinase SBK3 OS=Homo sapiens GN=SBK3 PE=3 SV=2

MERRASETPEDGDPEEDTATALQRLVELTTSRVTPVRS LRDQYHLIRKLGSGSYGRVLLA  
QPHQGGPAVALKLLRRDLVLRSTFLREFCVGRCVSAHPGLLQTLAGPLQTPRYFAFAQEY  
APCGDLSGMLQERGLPELLVKRVVAQLAGALDFLHSRGLVHADVKPDNVLVFDPVCSRVA  
LGDGLTRPEGSPTPAPPVPLPTAPPELCLLLPPDTLPLRPAVDSWGLGVLLFCAATACF  
PWDVALAPNPEFEAFAGVWTTKPPQPPPPWDQFAPPALALLQGLLDLPETRSPPLAV  
LDLFGDDWGLQGNREGPGVLGSAVSIEDREEGGSSLEEW TDEGDDSKSGGRTGTDGGAP

>sp|Q9GZV3|SC5A7\_HUMAN High affinity choline transporter 1 OS=Homo sapiens GN=SLC5A7 PE=1 SV=1

MAFHVEGLIAIIVFYLLILLVGIWAAWRTKNSGSAEERSEAIIVGGRDIGLLVGGFTMTA

TWVGGGYINGTAEAVYVPGYGLAWAQAPIGYSLSLILGGLFFAKPMRSKGYVTMLDPFQQ  
IYGRMGGLLFIPALMGEMFWAAAI FSALGATISV I IDVDMHISV I ISALIATLYTLVGG  
LYSVAYTDVVQLFCIFVGLWISVPFALSHPAVADIGFTAVHAKYQKPWLGTVDSSSEVYSW  
LDSFLLMLLGGIPWQAYFQRLSSSSATYAQVLSFLAAFGLVMAIPAILIGAIGASTDW  
NQTAYGLPDPKTTEEADMILPIVLQYLCPVYISFFGLGAVSAVMSSADSSILSASSMFA  
RNIYQLSFRQNASDKEIVWVMRITVFVFGASATAMALLTKTVYGLWYLSSDLVYIVIFPQ  
LLCVLFVKGTNTYGAVAGYVSGFLRITGGEPYLYLQPLIFYPGYPPDNGIYNQKFPFK  
TLAMVTSFLTNICISYLAKYLFESGTLPPKLDVFDVAVARHSEENMDKTLVKNENIKLD  
ELALVKPRQSMTLSTFTNKEAFLDVDSSPEGSGTEDNLQ

>sp|Q1EHB4|SC5AC\_HUMAN Sodium-coupled monocarboxylate transporter 2 OS=Homo sapiens  
GN=SLC5A12 PE=2 SV=2

MEVKNFAVWDYVVFALFFISSGIGVFFAIKERKKATSREFLVGGRQMSFGPVGLSLTAS  
FMSAVTVLGTGPSEVYRFGASFLVFFIAYLFVILLTSELFLPVFYRSGITSTYEYLQLRFN  
KPVRYAATVIYIVQTIITYTGVVYAPALALNQVTGFDLWGSVFATGIVCTFYCTLGGLKA  
VVWTDAFQMVMIVGFLTVLIQGSTHAGGFHNMLEQSTNGSRLHIFDFDVPDPLRRHTFWT  
ITVGGTFTWLGIYGVNQSTIQRCISCKTEKHAKLALYFNLLGLWIIILCAVFSGLIMYSH  
FKDCDPWTSGIISAPDQLMPYFVMEIFATMPGLPGLFVACAFSGTLSTVASSINALATVT  
FEDFVKSCFPHLSDKLSTWISKGLCLLFGVMCTSMAVAASVMGGVVQASLSIHGMC GGPM  
LGLFSLGIVFPFVNWKALGGLLTGITLSFWVAIGAFIYPAPASKTWPLPLSTDQCIKSN  
VTATGPPVLSSRPGIADTWYSISYLYSAVGCLGCIVAGV I ISLITGRQRGEDIQPLLIR  
PVCNLCFVWSKKYKTLWCWGVQHDGTEQENLENGSARKQGAESVLQNGLRRESLVHVP  
YDPKDKSYNNMAFETTHF

>sp|Q99590|SCAFB\_HUMAN Protein SCAF11 OS=Homo sapiens GN=SCAF11 PE=1 SV=2

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HVFCMTCILKWAETLASCPIDRKPFQAVFKFSALEGYVKVQVKKQLRETKDKKNENSFEK  
QVSCHEMSKSCIRRAIVREDLLSAKVC DLKWIHRNSLYSETGGKKNAAIKINKPQRSNW  
STNQCFRNFFSNMFSSVSHSGESSFTYRAYCTEFIEASEISALIRQKRHELELSWFPDTL  
PGIGRIGFIPWNVETEVLPLISSVLPRTIPTSTISFEHFGTSCKGYALAHTQEGEEKKQ  
TSGTSNTRGSRRKPA MTTPTRRSTRNTRAETASQSQRSPISDN SGCDAPGNSNPSLSVPS  
SAESEKQTRQAPKRKSVRRGRKP LLLKKLRSSVA APEKSSSND SVDEETAESDTSPVLE  
KEHQPVDVSSNICTVQTHVENQSANCLKSCNEQIEESEKHTANYDTEERVGSSSES CAQ  
DLPVLVGEEGEVKKLENTGIEANVLCLESEISENILEKGGDPLEKQDQISGLSQSEVKTD  
VCTVHLPNDFPTCLTSESKVYQVSCPLSDLSENVESVVNEEKITESSLVEITEHKDFTL  
KTEELIESPKLESSEGEI IQTVDRQSVKSP EVQLLGHVETEDVEI IATCDTFGNEDFNNI  
QDSENNLLKNNLLNTKLEKSLEEKNESL TEHPRSTELPKTHIEQIQKHFS EDNNEMIPME  
CDSFCSDQNESEVEPSVNADLKQMNENSVTHCSENNMPSSDLADEKVETVSQPSESPKDT  
IDTKKKPRTRRSRHFSPSTT WSPNKDTPQEKKRPQSPSPRRETGKESRKSQSPSPKNESA  
RGRKKSRSQSPKKDIARERRQSQRSPKRDTTRESRRSELSPRRETSRENKRSQPRVKD  
SSPGEKSRSQSRERESDRDQRRERERRTRKWSRSRSHSRSPSRCRTKSKSSSFGRIDRD  
SYSPRWKGRWANDGWRCPRGNDRYRKNDPEKQ NENTRKEKNDIHL DADDPNSADKHRNDC  
PNWITEKINS GPDPRTRNPEKLKESHWEENRNENSGNSWNKNFGSGWVSNRGRGRGNRGR  
GTYRSSFAYKDQENNRWQNRKPLSGNSNSSGSESFKFVEQQSYKRKSEQEF SFDTPADRS  
GWTSSASSWVRKTLPADVQNYYSRRGRNSSGPQSGWMKQEEETSGQDSSLKDQTNQQVDG  
SQLPINMMQPQMNVMQQQMNAHQPMNIFPYPVGVHAPLMNIQRNPFNIHPQLPLHLHTG



VPLMQVATPTSVSQGLPPPPPPPPPSQQVNYIASQPDGKQLQGIPSSSHVSNMSTPVL  
APTAAPGNTGMVQGPSSGNTSSSSHSKASNAAVKLAESKVSVAVEASADSSKTDKKLQIQ  
EKAAQEVKLAIKPFYQNKDITKEEYKEIVRKAVDKVCHSKSGEVNSTKVANLVKAYVDKY  
KYSRKGSKKKTLEEPVSTEKNIG

>sp|Q9NY46|SCN3A\_HUMAN Sodium channel protein type 3 subunit alpha OS=Homo sapiens  
GN=SCN3A PE=1 SV=2

MAQALLVPPGPESFRLFTRESLAAIEKRAAEEKAKKPKKEQDNDENKPKNSDLEAGKN  
LPFIYGDIPPEMVSEPLEDLDPYYINKKTFIVMNGKAIFRFSATSALYILTPLNPVRKI  
AIKILVHSLFSMLIMCTILTNCVFMTLSNPPDWTKNVEYFTGTGIYTFESLIKILARGFCL  
EDFTFLRDPWNWLD FSVIVMAYVTEFVSLGNVSALRTFRVLRALKTISVIPGLKTIVGAL  
IQSVKKLSDVMITVFCLSVFALIGLQLFMGNLRNKCLQWPPSDSAFETNTTSYFNGTMD  
SNGTFVNVMTSTFNWKDYIGDDSHFYVLDGQKDPLLCGNGSDAGQCPEGYICVKAGRPNP  
YGYTSFDTFSWAFLSLFRLMTQDYWENLYQLTLRAAGKTYMIFVFLVIFLGSFYLVNLIL  
AVVAMAYEEQNQATLEEAEQKEAEFQQMLEQLKKQQEEAQAVAAASAASRDFSGIGGLGE  
LLESSEASKLSSSAKEWRNRKRRQRHLEGNNGERDSFPKSESEDSVKRSSFLFS  
MDGNRLTSDKKFCSPHQSLLSIRGSLFSPRRNSKTSIFSFRGRAKDVGSENFADDEHST  
FEDSESRRDSLFPVPHRGERRNSNVSQASMSRMVGPLANGKMHSTVDCNGVVS LVGGP  
SALTSPTGQLPPEGTTTETEVKRRLSSYQISMEMLEDSSGRQRAVSIASILTNTMEELE  
ESRQKCPPCWYRFANVFLIWCCDAWLKVKHLVNLIVMDPFVDLAITICIVLNTLFMAME  
HYPMTEQFSSVLTVGNLVFTGIFTAEMVLKIIAMDPIYYFQEGWNIFDGIIVSLSMELG  
LSNVEGLSVLRSLRVFLAKSWPTLNMLIKIIGNSVGALGNLTLVLAII VFIFAVVG  
MQLFGKSYKECVCKINDCTLPRWHMNDFFHSFLIVFRVLCGEW IETMWDCEVAGQTMC  
LIVFMLVMVIGNLVNLFLALLSSFSNDLAATDDDNEMNNLQIAGRMQKGIDYVKN  
KMRECFQKAFFRKPKVIEIHEGNKIDSCMSNNTGIEISKELNYLRDGN GTTSGVGTGSSV  
EKYVIDENDYMSFINNPSLTVTVPIAVGESDFENLNTEEFSSSESELESKEKLNATSSSE  
GSTVDVVLPREGEQAETEPEEDLKPEACFTEGCIKKFPFCQVSTEEGKGKIWWNLRKTCY  
SIVEHWNFETFIVFMILLSSGALAFEDIYIEQRKTIKTMLEYADKVFTYIFILEMLLKWV  
AYGFQTYFTNAWCWLD FLIVDVSLVSLVANALGYSELGAIKSLRTLRLRPLRALS RFEG  
MRVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYHCVNMTTGNMFDISDVNN  
LSDCQALGKQARWKNVKVNFNDV GAGYLALLQVATFKGWMDIMYAAVDSRDVKLQPVYEE  
NLYMYLYFVIFIIFSFFTNLNLFIGVIIDNFNQQKKKFGGQDIFMTEEQKKYNNAMKKLG  
SKKPQKPIPRPANKFQGMVDFVTRQVFDISIMILICLNMVTMMVETDDQ GK YMTLVLSR  
INLVFIVLFTGEFVLKLVSLRHYYFTIGWNIFDFVVVILSIVGMFLAEMIEKYFVSPTLF  
RVIRLARIGRILRIKGAKGIRITLLFALMMSLPALFNIGLLLFLVMFIYAIFGMSNFAYV  
KKEAGIDDMFNFETFGNSMICLFQITTSAGWDGLLAPILNSAPDCDPDTIHPGSSVKGD  
CGNPSVGIFFFVSYIIISFLVVNMYIAVILENFSVATEESAEPLEDDFEMFYEVWEKF  
DPDATQFIEFSKLSDFAAALDPPLLI AKPNKVQLIAMDLP MVSGDRIHCLDILFAFTKRV  
LGESGEMDALRIQMEDRFMASNP SKVS YEPITTTLKRKQEEVSAIIQRNFRCYLLKQRL  
KNISSNYNKEAIKGRIDLPIKQDMIIDKLNGNSTPEKTDGSSSTTSPPSYDSVTKPDKEK  
FEKDKPEKESKGKEVRENQK

>sp|P35499|SCN4A\_HUMAN Sodium channel protein type 4 subunit alpha OS=Homo sapiens  
GN=SCN4A PE=1 SV=4

MARPSLCTLVPLGPECLRPFTRESLAAIEQRAVEEEARLQRNKQMEIEEPERKPRSDLEA  
GKNLPMIYGDPPPEVIGIPLDLDPYYSNKKTFIVLNKGKAIFRFSATPALYLLSPFSVV

RRGAIKVLIHALFSMFIMITILTNCVFM TSDPPPWSKNVEYTFTGIYTFESLIKILARG  
FCVDDFTFLRDPWNWLD FSVIMMAYL TEFVDLGNISALRTFRVLRALKTITVIPGLKTIV  
GALIQSVKKLSVDMILT VFCLSVFALVGLQLFMGNLRQKCVRWPPPFNDTNTTWYSNDTW  
YGNDTWYGNEWMYGNDSWYANDTWSHASWATNDTFDWDAYISDEGNFYFLEGSNDALLC  
GNSSDAGHCPEGYECIKTGRNP NYGYTSYDTFSWAFLALFRLMTQDYWENLFQLTLRAAG  
KTYMIFFFVVIIFLGSFYLINLILAVVAMAYAEQNEATLAEDKEKEEEFQQMLEKFKKHQE  
ELEKAKAAQALEGGEADG DPAHGKDCNGSLDTSQGEKGAPRQSSSGDSGISDAMEELEE  
HQQCPPWWYKCAHKVLIWNCCAPWLKFKNI IHLIVMDPFVDLGITICIVLNTLFMAMEHY  
PMTEHFDNVLT VGNLVFTGIFTAEMVLKLIAMD PYEYFQQGWNIFDSIIVTSLVELGLA  
NVQGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQ  
LFGKSYKECVCKIALDCNLPRWHMHDFFHSFLIVFRILCGEWIETMWD CMEVAGQAMCLT  
VFLMVMVIGNLVVLNLF LALLSSFSADSLAASDEDEGMNNLQIAIGRIKLGIGFAKAF  
LGLLHGKILSPKDIMLSLGEADGAGEAGEAGETAPED EKKEPPEEDLKKNHILNHMGLA  
DGPPSSLELDHLNF INNPYLTIQVPIASEESDLEMPTEETDTFSEPEDSKPPQPLYDG  
NSSVCSTADYK PPEEDPEEQAEENPEGEQPEECFTEACVQRWPCLYVDISQGRGKKWWTL  
RRACFKIVEHNWFET FIVMILLSSGALAFEDIYIEQRRVIRTILEYADKVFTYIFIMEM  
LLKWVAYGFKVYFTNAWCWLD FLIVDVSIISLVANWLG YSELGPIKSLRTRLRALRPLRAL  
SRFEGMRVVVNALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYYCINTTTSERFDI  
SEVNNKSECESLMHTGQVRWLNKVN YDNVGLGYLSLLQVATFKGWM DIMYAAVDSREKE  
EQPQYEVNLYMYLYFVIFIIFSFFT LNFIGVIIDNFNQKKKLGGKIDFMTEEQKKYY  
NAMKKLGSKKPQKPIPRPNKI QGMVYDLVTKQAFDITIMILICLNMVTMMVETDNQSQL  
KVDILYNINMIFIIFTGECVLKMLALRQYYFTVGWNIFDFVVVILSIVGLALS DLIQKY  
FVSPTLFRVIRLARIGRVLRLIRGAKGIRTL LFALMMSLPALFNIGLLLFLVMFIYSIFG  
MSNFAYVKKESGIDDMFN FETFGNSIICLFEITTSAGWDGLLNPILNSGPPDCDPNLENP  
GTSVKGDCGNPSIGICFFCSYIIISFLIVNMYIAIILENFNVATEESSEPLGEDDFEMF  
YETWEKFDPDATQFIAYSRLSDFVDTLQEPLRIAKPNKIKLITLDLPMVPGDKIHCLDIL  
FALTKEVLGDSGEMDALKQTMEEFMAANPSKVS YEPITTLKRKH EEVCAIKIQRAYRR  
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AGPTMGLMPISPSDTA WPPAPPPGQTVRPGVKESLV

>sp|Q14524|SCN5A\_HUMAN Sodium channel protein type 5 subunit alpha OS=Homo sapiens  
GN=SCN5A PE=1 SV=2

MANFLLPRGTSSFRFTRESLAAIEKRMAEKQARGSTTLQESREGLPEEEAPRPQLDLQA  
SKKLPDLYGNPPQELIGEPLDLPFYSTQKTFIVLNKGKTIFRFSATNALYVLSPFHPI  
RRAAVKILVHSLFNMLIMCTILTNCVFMAQHDP PPWTKYVEYTFTAIYTFESLVKILARG  
FCLHAFTFLRDPWNWLD FSVIIMAYTTEFVDLGNVSALRTFRVLRALKTISVISGLKTIV  
GALIQSVKKLADVMVLTVFCLSVFALIGLQLFMGNLRHKCVRNFTALNGTNGSVEADGLV  
WESLDLYLSDPENYLLKNGTSDVLLCGNSSDAGTCPEGYRCLKAGENPDHGYSFDSFAW  
AFLALFRLMTQDCWERLYQQTLRSAGKIYMIFFMLVIFLGSFYLVNLILAVVAMAYEEQN  
QATIAETEEKEKRFQEAMEMLKKEHEALTIRGVDTVSRSSLEMSPLAPVNSHERRSKRRK  
RMSSGTEECGEDRLPKSDSEDGPRAMNHLSLTRGLSRTSMKPRSSRGSI FTFRRRDLGSE  
ADFADDENSTAGESESHHTSLLVPWPLRRTSAQGQPSPGTSAPGHALHGKKNSTVDCNGV  
VSLLGAGDPEATSPGSHLLRPVMLEHPPDTTTPSEEPGGPQMLTSQAPCVDGFEEPGARQ  
RALSAVSVLTSAL EEESRHKCPPCWNR LAQRYLIWECCPLWMSIKQGVKLVMDPFTD  
LTITMCIVLNTLFMALEHYNMTSEFEEMLQVGNLVFTGIFTAEMTFKIIALDPY YFFQQG

WNIFDSIIVILSLMELGLSRMSNSVLRSFRLRVFKLAKSWPTLNTLIKIIGNSVGALG  
NLTLVLAIIVFIFAVVGMQLFGKNYSELRDSGSLPRWHMDDFFHAFLIIFRILCGEWI  
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LALARIQRGLRFVKRTTWDFCCGLLRQRPQKPAALAAQGQLPSCIATPYSPPPPETEKVP  
PTRKETRFEEGEQPGQGTGDPPEPVCVPIAVAESDQDQEEDEENSLGTEEESKQESQ  
PVSGGPEAPPDSRTWSQVSATASSEAEASASQADWRQKWAEPQAPGCGETPEDSCSEGS  
TADMTNTAELLEQIPDLGQDVKDPEDCFTEGCVRRCPCCAVDTTQAPGKVVWRLRKTCTYH  
IVEHSWFETFIIFMILLSSGALAFEDIYLEERKTIKVLLLEYADKMFYVVFVLEMLLKWVA  
YGFKKYFTNAWCWDLFDLIVDVSLSLVANTLGAEMGPIKSLRTLRLRPLRALS RFEGM  
RVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFGRCINQTEGDLPLNYTIVNN  
KSQCESLNLGELYWTKVKVNFNDVNGAGYLALLQVATFKGWMDIMYAAVDSRGYEEQPQW  
EYNLYMYIYFVIFIIFGSFFTLNLFIVGIIIDNFNQKKKLGGQDIFMTEEQKKYYNAMKK  
LGSKKPQKPIPRPLNKYQGFIFDIVTKQAFDVTIMFLICLNMVTMMVETDDQSPEKINIL  
AKINLLFVAIFTGECIVKLAALRHYYFTNSWNIFDFVVVILSIVGTVLSDIIQKYFFSPT  
LFRVIRLARIGRILRLIRGAKGIRTLFALMMSLPALFNIGLLLFLVMFIYSIFGMANFA  
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DCGSPAVGILFFTYYIIISFLIVVNMYIAIILENFSVATEESTEPLSEDDFDMFYEIWEK  
FDPEATQFIEYSVLSDFADALSEPLRIAKPNQISLINMDLPMVSGDRIHCMIDLFAFTRK  
VLGESGEMDALKIQMEEFMAANPSKISYEPITTTLRKHHEEVSAMVIQRAFRRHLLQRS  
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>sp|Q9H015|S22A4\_HUMAN Solute carrier family 22 member 4 OS=Homo sapiens GN=SLC22A4 PE=1  
SV=3

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QDVYLSVTVTEWNLVCEDNWVKPLTTSLFFVGVLGFSVSGQLSDRFGRKNVLFATMAVQ  
TGFSFLQIFSISWEMFTVLFVIVGMGQISNYVVAFILGTEILGKSVRIIFSTLGVCTFFA  
VGYMLLPLFAYFIRDWRMLLLALTPGVLCVPLWWFIPESPRWLISQRRFREAEDIIQKA  
AKMNIAVPAVIFDSVEELNPLKQKAFILDLFRTRNIAIMTIMSLLLWMLTSVGYFALS  
LDAPNLHGDAYLNCFLSALIEIPAYITAWLLRLTLPRRYIAAVLFWGGGVLLFIQLVPV  
DYYFLSIGLVMLGKFGITSAFSMLYVFTAELYPTLVRNMAVGVTSTASRVGSIIAPYFVY  
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>sp|Q8TCC7|S22A8\_HUMAN Solute carrier family 22 member 8 OS=Homo sapiens GN=SLC22A8 PE=1  
SV=1

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LKEMAQSFIMAGILIGGLVLGDLSDRFGRRPILTCSYLLLAASGSGAAFSPTFPIYMFVR  
FLCGFGISGITLSTVILNVEWVPTRMRAIMSTALGYCYTFGQFILPGLAYAIPQWRWLQL  
TVSIPFFVFFLSSWWTPESIRWLVLGKSSKALKILRRVAVFNGKKEEGERLSLEELKLN  
LQKEISLAKAKYTASDLFRIPMLRRMTFCLSLAWFATGFAYYSLAMGVVEEFGVNLYILQI  
IFGGVDVPAKFITILSLSYLGRHTTQAAALLAGGAILALTFFVPLDLQTVRTVLAVFGKG  
CLSSFSCLFLYTSELYPTVIRQTGMGVSNLWTRVGSMSVPLVKITGEVQPFIPNIIYGI  
TALLGGSAAFLPETLNQPLPETIEDLENWSLRAKKPKQEPEVEKASQRIPLQPHGPGLG

SS

>sp|Q9Y226|S22AD\_HUMAN Solute carrier family 22 member 13 OS=Homo sapiens GN=SLC22A13  
PE=2 SV=2

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NLSAAEQVLVSVPLDTAGHPEPCLMFRPPANASLQDILSHRFNETQPCDMGWEYPENRL  
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ATAFVPSFELYMALRFVAVATAVAGLSFSNVTLTTEWVGPSWRTQAVVLAQCNSLQGMVL  
AGLAYGFRNWRLQITGTAPGLLLFFYFWALPESARWLLTRGRMDEAIQLIQKAASVNR  
KLSPELMNQLVPEKTGPSGNALDLFRHPQLRKVTLIIFCVWFVDSLGGYGLSLQVGDFGL  
DVYLTQLIFGAVEVPARCSSIFMMQRFGRKWSQLGTLVLGGLMCIIIFIPADLPVVVTM  
LAVVGKMATAAFTISYVYSAELFPTILRQTGMGLVGIFSRIGGILTPLVILLGEYHAAL  
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PGVAFVSSTYF

>sp|Q8IZD6|S22AF\_HUMAN Solute carrier family 22 member 15 OS=Homo sapiens GN=SLC22A15  
PE=2 SV=1

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GVFVGVISFGQLSDRFGRKKVYLTGFALDILFAIANGFSPSYEFFAVTRFLVGMNGGMS  
LVAFVLLNECVGTAYWALAGSIGGLFFAVGIAQYALLGYFIRSWRTLAILVNLQGTVVFL  
LSLFIPESPRWLYSQGRLSEAEALYLIAKNRNKLKCTFSLTHPANRSCRETGSFLDLFR  
YRVLLGHTLILMFIWVCSLVYYGLTSLAGDLGGSIIYANLALSGLIEIPSYPLCIYLINQ  
KWFGRKRTLSAFLCLGGLACLIWMFLPEKKDTGVFAVVNSHSLSLGKLTISAANIVYI  
YTSELYPTVIRNVGLGTCSMFSRVGGIIAPFIPSLKYVQWSPFIVFGATGLTSGLLSLL  
LPETLNSPLETFSDLQVYSYRRLGEEALSLQALDPQQCVDKESLGESEEEEEFYDAD  
EETQMIK

>sp|A6NXX4|S22AV\_HUMAN Putative solute carrier family 22 member 31 OS=Homo sapiens  
GN=SLC22A31 PE=3 SV=3

MEQEARVLRAAGGFRARRLLASASWVPCIVLGLVLSSEELLTAQPAPHCRPDPTLLPPA  
LRALRGPALLDAAIPRLGPTRAPAEALGVLSPSYLAPLTRAPRPSSWASCSGAAAGPTWN  
LVCGDGWKVPLEQVSHLLGWLLGCVILGAGCDRFGRRVAVFVASLVLTTLGLGASEALASF  
PTLLVLRLLHGGTLAGALLALYLARLELCDDPHRLAFSMGAGLFSVVGTLPLGLAALVQ  
DWRLQGLGALMSGLLLLFWGFALFPESPCWLLATGQVARARKILWFAEASGVGPGDS  
SLEENSLATATELTMLSARSPQPRYHSPLGLLRTRVTRWNLILGFSSLVGGGIRASFRR  
SLAPQVPTFYLPYFLEAGLEAAALVFLLLTADCCGRRPVLLGTMVTGLASLLLAGAQY  
LPGWTVLFLSVLGLLASRAVSALSSLFAAEVFPTVIRGAGLGLVLGAGFLGQAAGPLDTL  
HGRQGFFLQQVVFASLAVLALLCVLLLPESRSRGLPQSLQDADRLRRSPLLGRPRQDHL  
PLLPPSNSYWAGHTPEQH

>sp|Q9UGH3|S23A2\_HUMAN Solute carrier family 23 member 2 OS=Homo sapiens GN=SLC23A2 PE=1  
SV=1

MMGIGKNTTSKSMEAGSSTEGKYEDEAKHPAFFTLPVVINGGATSSGEQDNEDTELMAIY  
TTENGIAEKSSLAETLDSTGSLDPQRSMDIYTIEDVPPWYLCIFLGLQHYLTCFSGTIAV  
PFLLADAMCVGYDQWATSQIGTIFFCVGITTLQTTFGCRLPLFQASAFAPLAPARAIL  
SLDKWKCNCTDVSANGTAELLHTEHIWYPIREIQGAIIMSSLIEVVIGLLGLPGALLK  
YIGPLTITPTVALIGLSGFAAGERAGKHGWIAMLTIFLVLLFSQYARNVKFPLPIYKSK

KGWTAYKLQLFKMFPIILAILVSWLLCFIFTVTDVFPDSTKYGFYARTDARQGVLVAP  
WFKVPYPFQWGLPTVSAAGVIGMLSAVVASIIIESIGDYYACARLSCAPPPPIHAINRGIF  
VEGLSCVLDGIFGTNGSTSSSPNIGVLGITKVGSRRIQCGAALMLALGMIGKFSALFA  
SLPDPVLGALFCTLFMITAVGLSNLQFIDLNSSRNLFVLGFSIFFGLVLP SYLRQNPLV  
TGITGIDQVLNVLLTTAMFVGGCVAFILDNTIPGTPEERGIRKWKKGVGKGNKSLDGMES  
YNLPFGMNI IKKYRCFSYLPISPTFVGYTWKGLRKSDNSRSSDEDSQATG

>sp|Q6PIS1|S23A3\_HUMAN Solute carrier family 23 member 3 OS=Homo sapiens GN=SLC23A3 PE=2  
SV=2

MSRSPLNPSQLRSVGSQDALAPLPPAPQNPSTHSWDPLCGSLPWGLSCLLALQHVLVMA  
SLLCVSHLLLLCSLSPGGLSYSPSQLLASSFFSCGMSTILQTMGSRLPLVQAPSLEFLI  
PALVLT SQKLPRAIQTPGNSSMLHLCRGPSCHGLGHWNTSLQEVS GAVVVSGLLQGMG  
LLGSPGHVFP HCGPLVLAPSLV VAGLSAHREVAQFCFTHWGLALLVILLMVVCSQHLGSC  
QFHVCPWRRASTSSTHTPLPVFRLLSVLIPVACVWIVSAFVGFSVIPQELSAPTKAPWIW  
LPHPGEWNWPLLTPRALAAGISMAAASTSSLCGYALCGRLLHLPPPPHACSRGLSLEG  
LGSVLAGLLGSPMG TASSFPNVGKVGLIQAGSQQVAHLVGLLCVGLGLSPRLAQLLT TIP  
LPVVGGLVGTQAVVLSAGFSSFYLAIDSGRNIFIVGFSIFMALLLPRWFREAPVLFST  
GWSPLDVLLHSLLTQPIFLAGLSGFLENTIPGTQLERGLGQGLSPFTAQEARMPQKPR  
EKAAQVYRLPFIQNLCPCIPLHCLCPEDPGDEEGSGSEPEEMADLLPGSGEPCPE  
SSREGFRSQK

>sp|Q9Y6Y8|S23IP\_HUMAN SEC23-interacting protein OS=Homo sapiens GN=SEC23IP PE=1 SV=1

MAERKPNGSGGASTSSSGTNLFFSSSATEFSFNVPFIPVTQASASPASLLLPGEDSTDV  
GEEDSFLGQTSIHTSAPQTF SYFSQVSSSSDPFGNIGQSPLTTAATSVGQSGFPKPLTAL  
PFTTGSQDVSNAFSPSISKAQPGAPSSLMGINSYLP SQPSSLP SYFGNQPGIPQPGY  
NPYRHTPGSSRANPYIAPPQLQCQTPGPPAHPPPSGPPVQMYQMPPGSLPPVPSSVQSP  
AQQQVPARPGAPSVQVPSPFLLQNQYEPVQPHWFYCKEVEYKQLWMPFSVFD SLNLEEIY  
NSVQPDPESEVVLGTDGGRYDVLYDRIRKAAWEEEP AEVRRCTW FYKGDTSR FIPYTE  
EFSEKLEAEYKKA VTTNQWHRLEFP SGETIVMHNPKVIVQFQPSSVPDEWGTTQDGQTR  
PRVVKRGIDNLD EIPDGEMPQVDHLVFVHVGIGPVCDLFRSII ECVDDFRV VSLKLLR  
THFKSLDDGKVS RVEFLPVHWHSSLG DATGVDRNIKKITLPSIGRFRHFTNETLLDIL  
FYNSPTYCQTIVEKV GMEINHLHALFMSRNPDFKGGVSVAGHSLGSLILFDILSNQKDLN  
LSKCPGLAVANGVVKLHFQEKQMPEEPKLTLD ESYDLVENKEVLT LQETLEALS LSE  
YFSTFEKEKIDMESLLMCTVDL KEMGIPLGPRKKIANFVEHKA AKLKKAASEKKAVAAT  
STKGQEQAQKTKD MASLPSESNEPKRKL PVGACVSSVCVNYESFEVGAGQVSVAYNSLD  
FEPEIFFALGSP IAMFLTIRGVDRIDENYS LPTCKGFFNIYHPLDPVAYRLEPMIVPDL  
LKAVLIPH HKGRKRLHLEL KESLSRMGSDLKQGFIS SLKSAWQTLNEFARAHTSSTQLQE  
ELEKVANQIKEEE EKQVVEAEKVVESPD FSKDEDYLGKVGMLNGRRIDYVLQEKPIESF  
NEYLFALQSHLCYWESEDTALLLKEIYRTMNISPEQPQH

>sp|Q6PIV7|S2534\_HUMAN Solute carrier family 25 member 34 OS=Homo sapiens GN=SLC25A34  
PE=2 SV=1

METVPPAVDLVLGASACCLACVFTNPLEVVKTRLQLQGELQARGTYPRPYHGFIASVA AV  
ARADGLWGLQKGLAAGLLYQGLMNGVRFYCYSLACQAGLTQQPGGT VVAGAVAGALGAFV  
GSPAYLIKTLQAQTVAAVAVGHQHNTVLGALETIWRQQGLLGLWQGVGAVPRVMVG  
SAAQLATFASAKAWVQKQWL PEDSWLVALAGGMISSIAVVVMT PFDVVS TRYLNQ PVD  
TAGRGQLYGGLTDCMVKIWRQEGPLALYKGLGPAYLRLGPHTILSMLFWDELRLAGRAQ

HKGT

>sp|Q9BZJ4|S2539\_HUMAN Solute carrier family 25 member 39 OS=Homo sapiens GN=SLC25A39  
PE=2 SV=2

MADQDPAGISPLQQMVASGTGAVVTSLFMTPLDVVKVRLQSQRPSMASELMPSRLWSLS  
YTKLPSSLQSTGKCLLYCNGVLEPLYLCPNGARCATWFQDPTRFTGTMDAFVKIVRHEGT  
RTLWSGLPATLVMTPATAIYFTAYDQLKAFLCGRALTSPLYAPMVAGALARLGTVTVIS  
PLELMRTKLQAQHVSYRELGACVRTAVAQGGWRSLWLWGPTALRDVPFSALYWFNYELV  
KSWLNGFRPKDQTSVGMSFVAGGISGTVAAVLTLPFDVVKTRQVALGAMEAVRVNPLHV  
DSTWLLLRRIAESGTKGLFAGFLPRIIKAAPSCAIMISTYEFGKSFFQRLNQDRLLGG

>sp|Q8TBP6|S2540\_HUMAN Solute carrier family 25 member 40 OS=Homo sapiens GN=SLC25A40  
PE=1 SV=1

MDPETRGQEIIKVTPLQQMLASCTGAILTSVIVTPLDVVKIRLQAQNNPLPKGKCFVYSN  
GLMDHLCVCEEKGNLWYKKPGNFQGTLDAFFKIIIRNEGKSLWSGLPPTLVMVPATVI  
YFTCYDQLSALLRSKLGNETCIPIVAGIVARFGAVTVISPLELIRTKMQSKKFSYVELH  
RFVSKKVEDGWISLWRGWAPTFLRDVPFSAMYWYNYEILKKWLCEKSGLYEPTFMINFT  
SGALSGSFAAVATLPFDVVKTRQKQTLWTYESHKISMPHLMSTWIIIMKNIVAKNGFSGLF  
SGLIPRLIKIAPACAIMISTYEFGAFFQKQNVRRQQY

>sp|P58743|S26A5\_HUMAN Prestin OS=Homo sapiens GN=SLC26A5 PE=2 SV=1

MDHAEENEILAAATQRYYYVERPIFVSHPLQERLHTKDKVPDSIADKLKQFTCTPKKIRNI  
IYMFLPITKWLPAYKFKEYVLGDLVSGISTGVLQPLQGLAFAMLAAPPIFGLYSSFYPV  
IMYCFGLTSRHISIGPFAVISLMIGGVAVRLVPDDIVIPGGVNATNGTEARDALRVKAM  
SVTLLSGIIQFCLGVCRFQFVAIYLTEPLVRGFTTAAAVHVFTSMLKYLFGVKTKRYSGL  
FSVYVSTVAVLQNVKNLNVCSLGVGLMVFGLLGGKEFNERFKEKLPAPIPLEFFAVVMG  
TGISAGFNLKESYNVDVVGTLPLGLLPPANPDTSFLHLYVDAIAIAIVGFSVTISMAKT  
LANKHGYQVDGNQELIALGLCNSIGSLFQTFISCSLSRSLVQEGTGGKTLQAGCLASLM  
ILLVILATGFLFESLPQAVLSAIVIVNLKGMFMQFSDLPFFWRTSKIELTIWLTTFVSSL  
FLGLDYGLITAVIIALLTVIYRTQSPSYKVLGKLPETDVYIDIDAYEEVKEIPGIKIFQI  
NAPIYYANSGLYSNALKRKTGVNPAVIMGARRKAMRYAKEVGNANMANATVVKADAEVD  
GEDATKPEEEDGEVYKPPPIVISTFPEEMQRFMPPGDNVHTVILDFTQVNFIDSVGVKTL  
AGIVKEYGDVGIVYLAGCSAQVVDLTRNRFENPALWELLFHSIHDAVLGSQLREALA  
EQEASAPPSQEDLEPNATPATPEA

>sp|Q9BXS9|S26A6\_HUMAN Solute carrier family 26 member 6 OS=Homo sapiens GN=SLC26A6 PE=1  
SV=1

MGLADASGPRDTQALLSATQAMDLRRRDYHMERPLLNQEHLEELGRWGSAPRTHQWRTWL  
QCSRARAYALLLQHLPVLVWLPYRPVRDWLLGDLLSGLSVAIMQLPQGLAYALLAGLPPV  
FGLYSSFYPVFIYFLFGTSRHISVGTFAVMSVMVGSVTESLAPQALNDSMINETARDAAR  
VQVASTLSVLVGLFQVGLGLIHFQGVVVTYLSLEPLVRGYTTAAAVQVFSQLKYVFGHLHS  
SHSGPLSLIYTVLEVWCWKLQSKVGTVVTAAGVVLVVVKLLNDKLQQQLPMPIPGELL  
TLIGATGISYGMGLKHFVEDVVGNIAGLVPPVAPNTQLFSKLVGSFTIYVVGFAIAI  
SLGKIFALRHGYRVDNQLVALGLSNLIGGIFQCFPVSCSMSRSLVQESTGGNSQVAGA  
ISSLFILLIIVKLGEFLHDLPAVLAAIIIVNLKGMRLQLSDMRSLWKANRADLLIWLVT  
FTATILLNLDLGLVVAVIFSLLLVVVRTQMPHYSVLGQVPDIDIYRDVAEYSEAKEVRGV  
KVFRSSATVYFANAIFYSDALKQRCGVDVDFLISQKKLLKKQEQLKQLQKEEKLKQ  
AASPKGASVSINVNTSLEDMRSNNVEDCKMMQVSSGDKMEDATANGQEDSKAPDGSTLKA

LGLPQPDFHSLILDLGALSFVDTVCLKSLKNIFHDFREIEVEVYMAACHSPVVSQLEAGH  
FFDASITKKHLFASVHDAVTFALQHPRPVPDSPVSVTRL

>sp|Q6P1M0|S27A4\_HUMAN Long-chain fatty acid transport protein 4 OS=Homo sapiens  
GN=SLC27A4 PE=1 SV=1

MLLGASLVGVLLFSKLVCLKPWTQVGFSLFLYLGGGWRFRVFIKTIRRDIFGGLVLL  
KVKAKVRQCLQERRTPILFASTVRRHPDKTALIFEGTDTHWTFRQLDEYSSSVANFLQA  
RGLASGDVAAIFMENRNEFVGLWLGMAKLGVEAALINTNLRRDALLHCLTTSRARALVFG  
SEMASAICEVHASLDPSLSLFCSGSWEPGAVPPSTEHLDPCLKDAPKHLPCPDKGFTDK  
LFYIYTS GTTGLPKAAIVVHSRYYRMAALVYYGFRMRPNDIVYDCLPLYHSAGNIVGIGQ  
CLLHGMTVVIRKKFSASRFWDDCIKYNCTIVQYIGELCRYLLNQPPREAENQHQVRMALG  
NGLRQSIWTFNSSRFHIPQVAEFYGATECNCSLGNFDSQVGACGFNSRILSFVYPIRLVR  
VNEDTMELIRGPDGVCIPCQPGEPGLVGRIIQKDPLRRFDGYLNQGANNKKIAKDVFKK  
GDQAYLTGDVLVMDDELGYLYFRDRDTGDFRWKGENVSTTEVEGTLRLLDMADVAVYGVE  
VPGTEGRAGMAAVASPTGNCDLERFAQVLEKELPLYARPIFLRLLPELHKTGTQYKFQKTE  
LRKEGFDPAIVKDPLFYLDAQGRYVPLDQEAYSRIQAGEEKL

>sp|Q9HAS3|S28A3\_HUMAN Solute carrier family 28 member 3 OS=Homo sapiens GN=SLC28A3 PE=1  
SV=1

MELRSTAAPRAEGYSNVGFQNEENFLENENTSGNNSIRSRAVQSREHTNTKQDEEQVTVE  
QDSPRNREHMEDDDEEMQQKGCLERRYDTVCGFCRKHKTTLRHIIWGILLAGYLMVISA  
CVLNFHRLPLFVITVAAIFFVVDHLMAKYEHRIDEMLSPGRRLLNSHWFWLKWVWSS  
LVLAIFWLAFD TAKLGQQQLVSFGGLIMYIVLLFLFSKYPTRVYWRPVLWGIGLQFLLG  
LLILRTDPGFIAFDWLGRQVQTFLEYTDAGASFVFGKEYKDHFFAFKVLPIVVFSTVMS  
MLYYLGLMQWIIIRKVGWIMLVTTGSSPIESVVASGNIFVGQTESPLLRPYLPYITKSEL  
HAIMTAGFSTIAGSVLGAYISFGVPSSHLLTASVMSAPASLAAAKLFWPETEKPKITLKN  
AMKMESGDSGNLLEAATQGASSISLVANIAVNLI AFLALLSFMNSALSWFGNMFDPQL  
SFELICSYIFMPFSFMMGVWQDSFMVARLIGYKTFNEFVAYEHLKSWIHLRKEGGPKF  
VNGVQQYISIRSEIIATYALCGFANIGSLGIVIGGLTSMAPSRKRDIASGAVRALIAGTV  
ACFMTACIAGILSSTPVDINCHHVLENAFNSTFPGNNTKVIACCQSLLSSTVAKGPGEVI  
PGGNHSLYSLKGCCTLLNPSTFNCGISNTF

>sp|Q7RTT9|S29A4\_HUMAN Equilibrative nucleoside transporter 4 OS=Homo sapiens GN=SLC29A4  
PE=1 SV=1

MGVSGSQRLEEPSVAGTPDPGVMSFTFDSHQLEEAEEAAQGGQLRARGVPAFTDTTLDE  
PVPDDRYHAIYFAMLLAGVGFLLPYNSFITVDVYLHHKYPGTSIVFDMSLTYILVALAAV  
LLNNVLVERLTLHTRITAGYLLALGPLLFISICDVWLQLFSRDQAYAINLAAVGTVAFGC  
TVQQSSFYGYTGMLPKRYTQGVMTGESTAGVMISLSRILTKLLLPDERASTLIFFLVSA  
LELLCFLHLHLLVRRSRFVLFYTTTRPDRSHRGRPGLGRGYGYRVHHDVVAGDVHFEHPAPA  
LAPNESPKDSPAHEVTGSGGAYMRFDVPRPRVQRSWPTFRALLHRYVVARVIWADMLSI  
AVTYFITLCLFPGLESEIRHCILGEWLPILIMAVFNLSDFVGKILAALPVDWRGTHLLAC  
SCLRVVFIPLFILCVYPSGMPALRHPAWPCIFSLLMGISNGYFGSVPMLAAGKVPKQR  
ELAGNTMTVSYSGLTLGSAVAYCTYSLTRDAHGSCLHASTANGSILAGL

>sp|Q5VU36|S31A5\_HUMAN Spermatogenesis-associated protein 31A5 OS=Homo sapiens  
GN=SPATA31A5 PE=3 SV=1

MENLPFPLKLLSASSLNAPSSPTPWLDIFLTLVFALGFFLLPYLSYFRCDPPSPSPG  
KRKCPVGRRRRPRGRMKNHSLRAGRECRRGLEETSDLLSQLQSLGPHLDKGDGQLSGP

DPPGEVGERAPDGASQSSHEPMEDAAPILSPLASDPQAKHPQDLASTPSPGPMTTSVSS  
LSASQPPEPSLPLEHPSPEPPALFPHPPHTPDPLACSLPPPKGFTAPPLRDSTLITPSHC  
DSVAFPLGTVPQSLSPHEDLVASVPAISGLGGSNSHVSASSRWQETARTSCAFNSSVQQD  
HLSRHPPETCQMEAGSLFLLSSDGQNVVGIIQVTETAKVNIWEEKENVGSFTNRMTPKHL  
NSLRNLAKSLDAEQDTTNPKPFWNMGENSKQLPGPQKLSDPRLWQESFWKNYSQLFWGLP  
SLHSESLVANAWVTDRSYTLQSPFFLFNEMSNVCPIQRETTMSPLLFAQPLSHLGPECQ  
PFISSTPQFRPTMAQAEQAHLQSSFPVLSPAAPSLIQNTGVACPASQNKVQALSLPET  
QHPEWPLLRQLEGRALPSRVQKSQDVFSVSTPNLPQESLTSILPENFPVSPELRRQLE  
QHIKKWIIQHWGNLGRIQESLDLMQLRDESPGTSQAKGKPSPWQSSMSTGEGSKEAQKVK  
FQLERDPCPHLGQILGETPQNLSRDMKSFPRKVLGVTSEELERNLRKPLRSDSGSDDLRC  
TERTHIENILKAHMRNLGGQTNEGLIPVCVRRSWLAVNQALPVSNTHVKTSNLAAPKSGK  
ACVNTAQVLSFLEPCTQQGLGAHIVRFWAKHRWGLPLRVLKPIQCFKLEKVSSLSLTQLA  
GPSSATCESGAGSEVEVDMFLRKPPMASLRKQVLTKASDHMPESLLASSPAWKQFQRAPR  
GIPSWNDHEPLKPPAGQEGRWPSKPLTYSLTGSIQQSRSLGAQSSKAGETREAVPQCRV  
PLETCMLANLQATSEVDHGFAPGTSKSSLHPRVSVSQDPRKLCLEEVVNEFEPGMATK  
SETQPQVCAAVVLLPDGQASVVPHASENLVSQVPQGHLSMPTGNMRASQELHDLMAARR  
SKLVHEEPRNPNCQGSCKSQRPMPFPIHKSEKSRKPNLEKHEERLEGLRTPQLTPVRKTE  
DTHQDEGVQLLPSKKQPPSVSPFGENIKQIFQWIFSKKKSKPAPVTAESQKTVKNRSRVY  
SSSAEAQGLMTAVGQMLDEKMSLCHARHASKVNQHKQKFQAPVCGFPCNHRHLFYSEHGR  
ILSYAASSQQATLKSQGCNDRQIRNQQPLKSVRCNNEQWGLRHPQILHPKKAVSPVSP  
PQHWPKTSGASSHHHCPRHCLLWEGI

>sp|POCK96|S352B\_HUMAN Solute carrier family 35 member E2B OS=Homo sapiens GN=SLC35E2B  
PE=2 SV=1

MSSSVKTPALEELVPGSEEEKPKGRSPLSWGSLFGHRSEKIVFAKSDGGTDENVLTVTITE  
TTVIESDLGVWSSRALLYLTWFFFSFCTLFLNKYILSLLGGEPSMLGAVQMLSTTVIGC  
VKTLVPCCLYQHKARLSYPPNFMTMLFVGLMRFATVVLGLVSLKNVAVSFAETVKSSAP  
IFTVIMSRMILGEYTGLLVNLSLIPVMGGLALCTATEISFNVLGFSAAALSTNIMDCLQNV  
FSKLLSGDKYRFSAPELQFYTSAAAVAMLPARVFFTDVPVIGRSGKSFSYNQDVVLLL  
LTDGVLFHLQSVTAYALMGKISPVTFVASTVKHALSIWLSVIVFGNKITSLSAVGTALV  
TVGVLLYNKARHQQEALQSLAAATGRAPDDTVEPLLPQDPRQHP

>sp|Q9H1N7|S35B3\_HUMAN Adenosine 3'-phospho 5'-phosphosulfate transporter 2 OS=Homo  
sapiens GN=SLC35B3 PE=1 SV=1

MDLTQQAKDIQNITVQETNKNSEIECSKITMDLKFNNRKYISITVPSKTQTMSPHIK  
SVDDVVVLGMNLSKFNKLTQFFICVAGVFVYFYLIYGYLQELIFSVEGFKSCGWYLTIVQF  
AFYSIFGLIELQLIQDKRRRIPGKTYMIIAFLTVGTMGSLNTSLGYLNYPTQVIFKCKKL  
IPVMLGGVFIQKRYNVADVSAACMSLGLIWFTLADSTTAPNFNLTGCVLISLALCADA  
VIGNVQEKAMKLHNASNSEMVLYSYSIGFVYILLGLTCTSGLGPAVTFCAKNPVRTYGYA  
FLFSLTGYPFGISFVLALIKIFGALIAVTVTGRKAMTIVLSFIFFAKPFTFYVWSGLLV  
VLGIFLNVYSKNMDKIRLPSLYDLINKSVEARKSRTLAQTV

>sp|Q9NTN3|S35D1\_HUMAN UDP-glucuronic acid/UDP-N-acetylgalactosamine transporter OS=Homo  
sapiens GN=SLC35D1 PE=1 SV=1

MAEVHRRQHARVKGAEPAKSSTLRDEEELGMSAETLTVFLKLLAAGFYGVSSFLIVVVN  
KSVLTNYRFPSSLCVGLGMVATVAVLWVGKALRVVKFPDLDRNVPRKTFPLPLYFGNQ  
ITGLFSTKKLNLPMFTVLRRFILFTMFAEGVLLKKTFSWGIKMTVFAMIIIGAFVAASSD



LAFDLEGYAFILINDVLTAAANGAYVKQLDSKELGKYGLLYNALFMILPTLAIAYFTGD  
AQKAVEFEGWADTLFLLQFTLSCVMGFILMYATVLTCTQYNSALTTTIVGCIKNILITYIG  
MVFGGDYIFTWTFNFIGLNISIAGSLVYSYITFTTEEQLSKQSEANNKLDIKKGAV

>sp|Q96KT7|S35G5\_HUMAN Solute carrier family 35 member G5 OS=Homo sapiens GN=SLC35G5 PE=2  
SV=1

MAGSHPYFNLDPSTHPSPPSAPPSLRWHQRCQPSGATNGLLVALLGGGLPAGFVGPLSRM  
AYQGSNLPSELLICRCLFHLPIALLKLRGDPLLGPDIRGWACFCALLNVLSIGCAYS  
AVQVVPAGNAATVRKGSSTVCSAVLTLCLESQGLGGYEWCGLLGSILGLIIILGPGLWTL  
QEGTTGVYTTLGYYQAFLLGGLALSGLLVYRSLHFPSCLPVAFSLGLVGLGCVPLFV  
LQTPVLPSDLLSWSCVGAEGILALVSFTCVGYAVTKAHPALVCAVLHSEVVVALILQYYM  
LHETVALSDIMGAGVVLGSAIIITARNLSCERTGKVEE

>sp|Q495N2|S36A3\_HUMAN Proton-coupled amino acid transporter 3 OS=Homo sapiens GN=SLC36A3  
PE=2 SV=2

MSLLGRDYNSELNSLDNGPQSPSESSSITSENVHPAGEAGLSMMQTLIHLLKCNIGTGL  
LGLPLAIKNAGLLVGPVSLLAIGVLTVHCVILLNCAQHLSQRLQKTFVNYGEATMYGLE  
TCPNTWLRHAVWGRTVVSFLLVITQLGFCSVYFMFMADNLQQMVEKAHVTSNICQPREI  
LTLPILDIRFYMLIILPFLILLVFIQNLKVLVSFSTLANITTLGSMALIFEYIMEGIPY  
PSNLPLMANWKTFLFFGTAIFTFEGVGMVPLKNQMKHPQQFSFVLYLGMSIVIIILYIL  
LGTLYMKFGSDTQASITLNLPCWLYQSVKLMYSIGIFFTYALQFHVPAEIIIPFAISQ  
VSESWALFVDLSVRSALVCLTCVSAILIPRLDLVISLVGSVSSSALALIIPALLEIVIFY  
SEDMSCVTIAKDIMISIVGLLGCFGTQALYELPQPISHSMANSTGVHA

>sp|Q99624|S38A3\_HUMAN Sodium-coupled neutral amino acid transporter 3 OS=Homo sapiens  
GN=SLC38A3 PE=1 SV=1

MEAPLQTEMVELVPNGKHSEGLLPVITPMAGNQRVEDPARSCMEGKSFLQKSPSKEPHFT  
DFEGKTSFGMSVFNLSNAIMGSGILGLAYAMANTGIILFLFLTAVALLSSYSIHLLLS  
SGVVGIRAYEQLGYRAFGTPGKLAAALAITLQNIAMSSYLYIIKSELPLVIQTFNLLEE  
KTSDWYMNGNYLVILVSVTIIILPLALMRQLGYLGYSFGSLSCMVFFLI AVIYKKFHVPC  
PLPPNFNNTTGNFSHVEIVKEKVQLQVEPEASAFCTPSYFTLNSQTAYTIPIMAFVCH  
PEVLPITYELKDPSSKKMQHISNLSIAVMYIMYFLAALFGYLTIFYNGVESELLHTYSKVD  
PFDVLILCVRVAVLTAVTLTVPIVLPVRRAIQQMLFPNQEF SWLRHVLI AVGLLTCINL  
LVIFAPNILGIFGVIGATSAPFLIFIPAIIFYFRIMPTEKEPARSTPKILALCFAMLGFL  
LMTMSLSFIIIDWASGTSRHGGNH

>sp|Q9NVC3|S38A7\_HUMAN Putative sodium-coupled neutral amino acid transporter 7 OS=Homo  
sapiens GN=SLC38A7 PE=1 SV=1

MAQVSINNDYSEWDLSTDAGERARLLQSPCVDTPAKSEWEASPGGLDRGTTSTLGAIFIV  
VNACLGAGLLNFPAAFSTAGGVAAGIALQMGMVFIIISGLVILAYCSQASNERTYQEVVW  
AVCGKLTGVLCEVAIAVYTFGTCTIAFLIIIGDQQDKIIAVMAKEPEGASGPWYTDKFTI  
SLTAFLFILPLSIPREIGFQKYASFLSVVGTWYVTAIVIIKIYWPDKEMTPGNILTRPAS  
WMAVFNAMPTICFGFQCHVSSVPVFNSMQQPEVKTWGGVVTAA MVIALAVYMGTCIGFL  
TFGAAVDPDVLSSYPSEDMAVAVARAFIILSVLTSYPILHFCGRAVVEGLWLRYYQGPVE  
EDVGRERRRRVLQTLVWFLTLTLLALFIPDIGKVISVIGLAACFIFVFPGLCLIQAKLS  
EMEEVKPASWWVLVSYGVLLVTLGAFIFGQTTANAIFVDLLA

>sp|A6NNN8|S38A8\_HUMAN Putative sodium-coupled neutral amino acid transporter 8 OS=Homo  
sapiens GN=SLC38A8 PE=1 SV=1

MEGQTPGSRGLPEKPHPATAAATLSSMGAVFILMKSALGAGLLNFPWAFSKAGGVPAFL  
VELVSLVFLISGLVILGYAAAVSGQATYQGVVRGLCGPAIGKLCEACFLNLLMISVAF  
RVIGDQLEKLCDSLLSGTPPAPQWPYADQRFTLPLLSVLVILPLSAPREIAFQKYTSILG  
TLAACYLALVITVQYYLWPQGLVRESHPSLSPASWTSVFSVFPTICFGFQCHEAAVSIYC  
SMRKRSLSHWALVSVLSLLACCLIYSLTGVYGFLTFTGTEVSADVLMSYPGNDMVIIVARV  
LFAVSIVTVYPIVLFLGRSVMQDFWRRSCLGGWGPSALADPSGLWVRMPLTILWVTVTLA  
MALFMPDLSEIVSIIGGISSFFIFIFPGLCLICAMGVEPIGPRVKCCLEVWGVVSVLVGT  
FIFGQSTAAAVWEMF

>sp|Q9HBR0|S38AA\_HUMAN Putative sodium-coupled neutral amino acid transporter 10 OS=Homo sapiens GN=SLC38A10 PE=1 SV=2

MTAAAASNWGLITNIVNSIVGVSVLTMPPFCFKQCGIVLGALLVFCSWMTHQSCMFLVKS  
ASLSKRRTYAGLAFHAYGKAGKMLVETSMIGLMLGTCIAFYVVIGDLGSNFFARLFGFQV  
GGTFRMFLLFAVSLCIVLPLSLQRNMMAISQFSAMALLFYTVFMFVIVLSSLKHGLFSG  
QWLRVRSYVRWEGVFRICIIFGMSFACQSQVLPTYDSLDEPSVKTMSIFASSLNVVTTF  
YVMVGFFGYVSFTEATAGNVLMHFPSNLVTEMLRVGFMMMSAVGFPMMILPCRQALSTLL  
CEQQQKDGTFAGGYMPPLRFKALTLSVVFGTMVGGILIPNVETILGLTGATMGSLICFI  
CPALIYKKIHKNALSSQVVLWVGLGVLVSTVTTLVSSEVPEDLAEAPGGRLGEAEGL  
MKVEAARLSAQDPVVAEDGREPKLPKERELEQAQIKGPVDVPGREDGKEAPEEAQL  
DRPGQGIAPVPGEAHRHEPPVPHDKVVVDEGQDREVPEENKPPSRHAGGKAPGVQGGMAP  
PLPDSEREKQEPEQGEVGRKPGQAQALEEAGDLPEDPQKVPEADGQPAVQPAKEDLPGD  
RGLHPRPQAVLSEQNGLAVGGGEKAKGGPPPGNAAGDTGQPAEDSDHGGKPLPAEKPA  
PGPGLPPEPREQRDVERAGGNQAASQLEEAGRAEMLDHAVLLQVIEQQVQQKRLDQQE  
KLLAVIEEQHKEIHQQRQEDEEDKPRQVEVHQEPGAAPVRGQEAPEGKARETVENLPPLP  
LDPVLRAPGGRPAPSQDLNQRSLEHSEGPVGRDPAGPPDGGPDTEPRAAQAKLRDGGQDA  
APRAAGTVKELPKGPEQVPVPDPAREAGGPEERLAEFPGQSQDVTGGSQDRKKPGKEVA  
ATGTSILKEANWL VAGPGAETGDP RMKPKQVSRDLGLAADLPGAEGAAAQPAVLRQPE  
LRVISDGEQGGQGHRLDHGGHLEMRKARGGDHVPVSHEQPRGGEDAAVQEPRQRPEPEL  
GLKRAVPGGQRPD NAKPNRDLKLQAGSDLRRRRRDLGPHAEGQLAPRDGVII GLNPLPDV  
QVNDLRGALDAQLRQAAGGALQVVHSRQLRQAPGPPEES

>sp|Q6ZMH5|S39A5\_HUMAN Zinc transporter ZIP5 OS=Homo sapiens GN=SLC39A5 PE=1 SV=3

MMGSPVSHLLAGFCVWVVLGWVGGSVPNLGPAEQEQNHLYAQLFGLYGENGTLAGGLAR  
LLHSLGLGRVQGLRLGQHGPLTGRAASPAADNSTHRPQNPELSVDVWAGMPLGPSGWGDL  
EESKAPHLPRGPAPSGLDLLHRLLLLDHSLADHLNEDCLNGSQLLVNFGLSAAPTTPRQ  
FALLCPALLYQIDSRVCIGAPAPAPPGDLSALLQSALAVLLLSLPSPLSLLLRLLGPR  
LLRPLLGLGALAVGTLCGDALLHLLPHAQEGRHAGPGLPEKDLGPGLSVLGGLFLLFV  
LENMLGLLRHRGLRPRCCRRKRRNLETRNLDPENSGMALQPLQAAPEPGAQGREKNSQ  
HPPALAPPGHQGHSHGHQGGTDITWMVLLGDGLHNLTDGLAIGAASFSDGFSSGLSTLAV  
FCHELPHELGFAMLLQSGLSFRRLLLLSLVSGALGLGGAVLGVGLSLGPVPLTPWVFGV  
TAGVFLYVALVDMLPALLRPPEPLTPHVLLQGLGLLLGGGLMLAITLLEERLLPVTEG

>sp|Q9COK1|S39A8\_HUMAN Zinc transporter ZIP8 OS=Homo sapiens GN=SLC39A8 PE=2 SV=1

MAPGRAVAGLLLLAAAGLGGVAEGPGLAFSEDVLSVFGANLSLSAAQLQHLLQMGAA  
SRVGVPEPGQLHFNQCLTAEEIFSLHGFSNATQITSSKFSVICPAVLQQLNFHPCEDRPKHK  
TRPSHSEVWGYGFLSVTIINLASLLGLILTPLIKKSYFPKILTFVGLAIGTLFSNAIFQ  
LIPEAFGFDPKVDSYVEKAVAVFGGFYLLFFFERMLKMLLKTYGQNGHTHFGNDNFGPQE

KTHQPKALPAINGVTCYANPAVTEANGHIHFDNVSVVSLQDGKKEPSSCTCLKGPKLSEI  
GTIAWMITLCDALHNFIDGLAIGASCTLSLLQGLSTSIAILCEEFPHELGDVILLNAGM  
STRQALLFNFLSACSCYVGLAFGILVGNFAPNIIIFALAGGMFLYISLADMFPENDMLR  
EKVTGRKTDFTFFMIQNAGMLTGFTAILLITLYAGEIELE

>sp|Q504Y0|S39AC\_HUMAN Zinc transporter ZIP12 OS=Homo sapiens GN=SLC39A12 PE=2 SV=3

MCFRTKLSVSWVPLFLLLSRVFSTETDKPSAQDSRSRGSSGQPADLLQVLSAGDHPPHNH  
SRSLIKTLLEKTGCPRRRNGMQGDCNLCFEPDALLIAGGNFEDQLREEVVQRVSLLLLY  
YIIHQEEICSSKLNMSNKEYKFYLHSLSLRQDEDSSFLSQNETEDILAFTRQYFDTSQS  
QCMETKTLQKKSGIVSSEGANESTLPQLAAMIITLSLQGVCLGQGNLPSPDYFTEYIFSS  
LNRTNTLRLSELQLLNTLWTRSTCIKNEKIHQFQRKQNNIITHDQDYSNFSSSMEKESE  
DGPVSWDQTCFSARQLVEIFLQKGLSLISKEDFKQMSPGI IQQLSCSCHLPKDQQAQKLP  
PTTLEKYGYSTVAVTLLTLGSMGLTALVLFHSCEENYRLILQLFVGLAVGTLSGDALLHL  
IPQVLGLHKQEAPEFGHFHESKGHIWKLMLGIGGIHGFFLIEKCFILLVSPNDKQGLSLV  
NGHVGHSHHLALNSELSDAQRGKSASTIQLKSPEDSQAAMPISMTASNKCKAISLL  
AIMILVGDSLHNFADGLAIGAFASSSSSESGVTTTIAILCHEIPHEMGDFAVLLSSGLSMK  
TAILMNFISSLTAFMGLYIGLSVSADPCVQDWIFTVTAGMFLYLSLVEMLPEMTHVQTQR  
PMMMFLQNFGLILGWLSLLLLAIYEQNIKI

>sp|Q96H72|S39AD\_HUMAN Zinc transporter ZIP13 OS=Homo sapiens GN=SLC39A13 PE=1 SV=3

MPGCPCPGCGMAGPRLLFLTALALELLERAGGSQPALRSRGTTACRLDNKESESWGALL  
SGERLDTWICSLGSLMVGSLGVFPLLVIPLEMGTMRLSEAGAWRLKQLLSFALGGLGN  
VFLHLLPEAWAYTCSASPGGEGSLQQQQLGLWVIAGILTFLALEKMFDSKEEGTSQA  
PNKDPTAAAAALNGGHCLAQPAAEPLGAVVRSIKVSGYLNLLANTIDNFTHGLAFAAF  
LVSKKIGLLTTMAILLHEIPHEVGDFAILLRAGFDRWSAAKLQLSTALGGLGAGFAICT  
QSPKGVVGCSAAEETAAWVLPFTSGGFLYIALVNVLPDLLEEDPWRSLLQQLLLCAGI  
VVMVLFSLFVD

>sp|Q96GZ6|S41A3\_HUMAN Solute carrier family 41 member 3 OS=Homo sapiens GN=SLC41A3 PE=1  
SV=2

MDGTETRQRRLDSCGKPGELGLPHPLSTGGLPVASEDGALRAPESQSVTPKPLETEPSRE  
TTWSIGLQVTVPFMFAGLGLSWAGMLLDYFQHWPVFVEVKDLLTLVPPLVGLKGNLEMTL  
ASRLSTAANTGQIDDPQEQHRVISSNLALIQVQATVVGLLAABAALLGVVSREEVDVAK  
VELLCASSVLTAFLAALFALGVLVCIVIGARKLGVNPDNIATPIAASLDLITLSILALV  
SSFFYRHKDSRYLTPLVCLSFALTPVWVLIAKQSPPIVKILKFGWFPIILAMVISSFGG  
LILSKTVSKQYKGMIFTPVICGVGNLVAIQTSRISTYLMWSAPGVPLQMKKFWPN  
PCSTFTCTEINSMARSVLLLLVVPGLHIFFYIIYLVEGQSVINSQTFVVLVLLAGLIQVT  
ILLYLAEVMVRLTWHQALDPDNHCIPYLTGLGDLLGSSSVGHATAVPRRCTASPGWGLIQ  
PFICTQHLIVSLLSFYFPFCLLAKTSI

>sp|Q9UMX9|S45A2\_HUMAN Membrane-associated transporter protein OS=Homo sapiens GN=SLC45A2  
PE=1 SV=2

MGSNSGQAGRHIYKSLADDGPFDSVEPPKRPTSRLIMHSMAMFGREFCYAVEAAYVTPVL  
LSVGLPSSLYSIVWFLSPILGFLLPVVGASDHCRRWRGRRRPYILTLGVMMLVGMALY  
LNGATVVAALIANPRRKLWVAISVTMIGVVLFDFAADFIDGPIKAYLFDVCSHQDKEKGL  
HYHALFTGFGGALGYLLGAIDWAHLELGRLLGTEFQVMFFFSALVLTLCFTVHLCSISEA  
PLTEVAKGIPPQQTQDPPPLSSDGMYEYGSIEKVKNGYVNPPELAMQGAKNKNHAEQTRRA  
MTLKSLLRALVNMPHYRYLCISHLIGWTAFLSNMLFFTDGFMQIVYRGDPYSAHNSTEF

LIYERGVVEVCWGLCINSVFSSLYSYFQKVLVSYIGLKGLYFTGYLLFGLGTGFIGLFPN  
VYSTLVLCSLFGVMSSTLYTVPFNLITEYHREEEKERQQAPGGDPNSVRGKGMDCATLT  
CMVQLAQILVGGGLGFLVNTAGTVVVVVITASAVALIGCCFVALFVRYVD

>sp|P18405|S5A1\_HUMAN 3-oxo-5-alpha-steroid 4-dehydrogenase 1 OS=Homo sapiens GN=SRD5A1  
PE=1 SV=1

MATATGVAEERLLAALAYLQCAVGCASFARNRQTNSVYGRHALPSHRLRVPARAAWVVQE  
LPALPLPLYQYASESAPRLRSAPNCILLAMFLVHYGHRCLYIPFLMRGGKPMPLACTMA  
IMFCTCNGYLQSRYLSCAVYADDWVTDPRFLIGFGLWLTGMLINIHSIHILRNLRKPGD  
TGKIPRGGLFEYVTAANYFGEIMEWCGYALASWSVQGAFAFFTFCFLSGRAKEHHEWY  
LRKFEEYPKFRKIIIPFLF

>sp|Q9H9S3|S61A2\_HUMAN Protein transport protein Sec61 subunit alpha isoform 2 OS=Homo  
sapiens GN=SEC61A2 PE=2 SV=3

MGIKFLEVIKPFCVLPETIKPERKIQFREKVLWTAITLFIPLVCCQIPLFGIMSSDSAD  
PFYWMRVILASNRGTLMEGLISPIVTSGLIMQLLAGAKIEVGDTPKDRALFNGAQKLFG  
MIITIGQAIYVMTGMYGDPAMGAGICLLIIQLFVAGLIVLLDELQKGYGLSGSGIS  
LFIATNICETIVWKAFTPTINTGRGTEFEGAVIALFHLLATRTDKVRALREAFYRQNL  
NLNLIATVVFVFAVVIYFQGRVDLPKISARYRGQYSSYPIKLFYTSNIPILQSALVSN  
LYVISQMLSVRFSGNFLVNLLGQWADVSGGGPARSYVGGGLCYLSPPEMGAIFEDPVH  
VVVYIIFMLGSCAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGHRDTSMVHELNRYP  
AAFGGLCIGALSVLADFLGAIGSGTGILLAVTIIYQYFEIFVKEQAEVGGMGALFF

>sp|Q8TCU3|S7A13\_HUMAN Solute carrier family 7 member 13 OS=Homo sapiens GN=SLC7A13 PE=2  
SV=1

MDRGEKIQLRVFGYWWGTSFLLINIIGAGIFVSPKGVLAYSCMNVGVSCLVWAGCAILA  
MTSTLCSAEISISFPCSGAQYFYFLKRYFGSTVAFNLWTSFLGSGVAGQALLAEYSI  
QPFPSCSVPKPKCLALAMLWIVGILTSRGVKEVTWLQIASSVLKVSILSFISLTGVV  
FLIRGKKENVERFQNAFDAELPDISHLIQAIQGYFAYSGGACFTLIAGELKKPRTTIPK  
CIFTALPLVTVVYLLVNISYLTVLTPREILSSDAVAITWADRAFPSLAWIMPFAISTSLF  
SNLLISIFKSSRPYILASQEGQLPLFNLTLSHSSPFTAVLLVTLGSLAITLSLIDLI  
NYIFFTGSLWSILLMIGILRRRYQEPNLSIPYKVFSLFPLATIVDGLVVIPLVKSPNV  
HYVYVLLLVLSGLLFYIPLIHFKIRLAWFEKMTCYLQLLFNICLPDVSEE

>sp|P0DJ18|SAA1\_HUMAN Serum amyloid A-1 protein OS=Homo sapiens GN=SAA1 PE=1 SV=1

MKLLTGLVFCSLVLGVSSRSFSLGEAFDGARDMWRAYSMDREANYIGSKYFHARGNY  
DAAKRGPGGVWAAEISDARENIQRFFGHGAEDSLADQAANEWGRSGKDPNHFRPAGLPE  
KY

>sp|W5XKT8|SACA6\_HUMAN Sperm acrosome membrane-associated protein 6 OS=Homo sapiens  
GN=SPACA6 PE=1 SV=2

MALLALASAVPSALLALAVFRVPAWACLLCFTTYSERLRICQMFVGMRSPLKEECEEAF  
AAFQGLSDTEINYDERSHLHDTFTQMTHALQELAAQGSFEVAFPDAAEKMKKVITQLKE  
AQACIPPCGLQEFARRFLCSGCYSRVCDLPLDCPVQDVTVTRGDQAMFSCIVNFQLPKEE  
ITYSWKFAGGGLRTQDLSYFRDMPRAEGYLARIRPAQLTHRGTFSCVIKQDQRPLARLYF  
FLNVTGPPPRAE TELQASFREVLRWAPRAELIEPWRPSLGELLARPEALTPSNLFLAV  
LGALASASATVLAWMFFRWYCSGN

>sp|Q96E40|SACA9\_HUMAN Sperm acrosome-associated protein 9 OS=Homo sapiens GN=SPACA9 PE=1  
SV=1

MNEVKESLRSIEQKYKLFQQQQLTFTAALHCRENAHDKIRPISSIGQVQSYMEHYCNSS  
TDRRVLLMFLDICSELNKLCQHFEAVHSGTPVTNNLLEKCKTLVSQSNLSSLRAKYPHD  
VVNHLSCDEARNHYGGVVSLLIPLILDLMKEWIAHSEKLPRKVLQHVSEPQAHQESTRGAA  
RPAQAIGTQPRATKHKCRQLTKASLKPRGCSKPPWRPPGGKL  
>sp|Q9NZJ4|SACS\_HUMAN Sacsin OS=Homo sapiens GN=SACS PE=1 SV=2  
METKENRWVPVTVLP GCVCRTVAALASWTVRDVKERIFAETGFPVSEQRLWRGGRELS  
WIKIGDLTSKNCHLFVNQLSKGLKGGRFGQTTPPLVDFLKDILRRYPEGGQILKELIQN  
AEDAGATEVKFLYDETQYGTETLWSKDMAPYQGPALYVYNNAVFTPEDWHGIQEIARSRK  
KDDPLKVGRFGIGFNSVYHITDVP CIFS GDQIGMLDPHQTLFGPHESGQCWNLKDDSK EI  
SELSDQFAPFVGIFGSTKETFINGNFPGTFFRFPLRLQPSQLSSNLYNKQKVLELFESFR  
ADADTVLLFLKSVQDVSLYVREADGTEKLVFRVTSSES KALKHERPNSIKILGTAISNYC  
KKTPSNNITCVTYHVNIVLEEESTKDAQTSWLVCNSVGGRGISSKLDLADLKFVPII  
GIAMPLSSRDDEAKGATSDFSGKAFCLPLPPGEESSTGLPVHISGFFGLTDNRRSIKWR  
ELDQWRDPAALWNEFLVMNVPKAYATLILDSIKRLEMEKSSDFPLSVDVIYKLWPEASK  
VKVHWQPVLEPLFSELLQNAV IYISCDWVRLEQVYFSELDENLEYTKTVLNYLQSSGKQ  
IAKVPGNVDAAVQLTAASGTPVRKVTPAWVRQVLRKCAHLGCAEEKLHLEFVLSQAY  
SELLGLELLPLQNGNFVPFSSSVSDQDVIYITS AEYPRSLFPSLEGRFILDNLKPHLVAA  
LKEAAQTRGRPCTQLQLLNPERFARL I KEVMNTFWPGRELIVQWYPFDENRNHPSVSWLK  
MVWKNLYIHFSEDLTLFDEMPLIPRTILEEGQTCVELIRLRIPSLVILDDSEALPEFL  
ADIVQKLGGFVLKKLDA SIQHPLIKKYIHSPLPSAVLQIMEKMPLQKLCNQITSLLPTHK  
DALRKFLASLTDSSEKEKRI IQELAI FKRINHSSDQG ISSYTKLKGCKVLHHTAKLPADL  
RLSISVIDSSDEATIRLANMLKIEQLKTT SCLKLVLDIENAFYSHEEVTQLMLWVLENL  
SSLKNENPNVLEWLTP LKF IQISQE QMVSAGELFDPDIEVLKDLFCNEEGTYFPPSVFTS  
PDILHSLRQIGLKNEASLKEKD VVQVAKKIEALQVGACPDQDVLLKKAKTLLLVLNKNHT  
LLQSSEGMKTLKKIKWVPACKERPPNYPGSLVWKGDL CNLCAPPDMCDVGHAILIGSSLP  
LVESIHVNLEKALGIFTKPSLSAVLKHFKI VVDWYSSKTFSD EDDYYQFHILLEIYGFMH  
DHLNEGKDSFRALKFPWWTGKKFCPLAQAVIKPI HDL DLQPYLHNVPKTMKFHQLFKV  
CGSIEELTSDHISMV IQKIY LKSDQDLSEQESKQNLHMLNIIRWLYSNQIPASNP TPVP  
IHHSKNPSKLIMKPIHECCYCDIKVDDLNDLLED SVEPIILVHEDIPMKTAEWLKVPCLS  
TRLINPENMGFEQSGQREPLTVRIKNILEEYPSVSDIFKELLQNADDANATECSFLIDMR  
RNMDIRENLLDPGMAACHGPALWSFNNSQFSDSDFVNITRLGESLKRGEVDKVGKFG LGF  
NSVYHITDIP IIMSREFMIMFDPNINHISKHIKDKSNPGIKINWSKQKRLRKFPNQFKP  
FIDVFGCQLPLTVEAPYSYNGTLFRLSFRTQQEAKVSEVSSTCYNTADIYSLVDEFSLCG  
HRLIIFTQSVKSMYLYK LKIEETNP SLAQDTV I I KKKSCSSKALNTPVLSVLKEAAKLMK  
TCSSSNKKLPSPDEPKSSCILQITVEEFHHVFRR IADLQ SPLFRGPDDPAALFEMAKSGQ  
SKKPSDELSQKTVECTTWLLCTMDTGEALKFSLSESGRRLGLVPCGAVGVQLSEIQDQK  
WTVKPHIGEVFCYLP LRIKTGLPVHINGCFAVTSNRKEIWKTDTKGRWNTTFMRHIVKA  
YLQVLSVLRDLATSGELMDYTYAVWPDPDLVHDDFSVICQGFYEDIAHGKGKELTKVFS  
DGSTWVSMKNVRFLDDSILKRRDVGSAAFKIFLKY LKKTGSKNLCAVELPSSSVKLGFE EA  
GCKQILLENTFSEKQFFSEVF FPNIQEIEAELRDPLMIFVLNEKVDEFSGVLRVTPCIPC  
SLEGHPLVLP SRLIHPEGRVAKLFDIKDGRFPYGSTQDYLNPIILIKLVQLGMAKDDILW  
DDMLERAVSVAEINKSDHVAACLRSSILLSLIDEK LKIRDPRAKDFAAKYQTIRFLPFLT  
KPAGFSLDWKGSF KPETMFAATDLYTAHQDIVCLLQPI LNENSHSFRGCGSVSLAVKE  
FLGLLKKPTVDLVINQLKEVAKSVDDGITLYQENITNACYKYLHEALMQNEITKMSIIDK

LKPFSEFILVENAYVDSEKVSFHLNFEAAPYLYQLPNKYKNNFREL FETVGVRQSCTVEDF  
ALVLESIDQERGKQITEENFQLCRRRIISEGIWSLIREKKQEFCEKNYGKILLPDTNML  
LPAKSLCYNDCPWIKVKDDTTVKYCHADIPREVAVKLGAVPKRHKALERYASNVCFCTLGT  
EFGQKEKLT SRIKSILNAYPSEKEMLKELLQNADDAKATEICFVFDPRQHPVDRI FDDKW  
APLQGPALCVYNNQPFTEDDVRGIQNLGKGTKEGNPYKTGGY GIGFNSVYHITDCPSFIS  
GNDILCIFDPHARYAPGATSISPGRMFRDL DADFRTQFSDVLDLYLGTHFKLDNCTMFRF  
PLRNAEMAKVSEISSVPASDRMVQNLLDKLRSDGAELLMFLNHMEKISICEIDKSTGALN  
VLYSVKGKITDGDRLKRKQFHASVIDSVTKKRQLKDIPVQQITYTMDTEDSEGNLTTWLI  
CNRSGFSSMEKVSKSVISAHNQDITLFPRGGAACITHNYKKPHRAF CFLPLSLETGLP  
FHVNGHFALDSARRNLWRDDNGVGVRS DWNSLMTALIAPAYVELLIQLKKRYFPGSDPT  
LSVLQNTPIHVVKDTLKKFLSFFPVNRLDLQPDLYCLVKALYNCIHEDMKRLLPVVRAPN  
IDGSDLHSAVIITWINMSTSNKTRPFFDNLLQDELQHLKNADYNITTRKTAENVYRLKH  
LLEIGFNLVYNCDETANLYHCLIDADIPVSIVTPADIRSFLMTFSSPD TNCHIGKLPCR  
LQQTNLKL FHSKLKLV DYC FKDAEENEIEVEGLPLLITLDSVLQTFDAKRPKFLT TYHEL  
IPSRKDLFMNTLYLKYSNILLNCKVAKVFDISSFADLLSSVLPREYKTKSCTKWKDNFAS  
ESWLKNAWHFISESVSKEDQEETKPTFDIVVDTLKDWALLPGTKFTVSANQLV VPEGDV  
LLPLSLMHIAVFPNAQSDKVFHALMKAGCIQ LALNKICKSDSAFVPLLSCHTANIESPTS  
ILKALHYMVQTSTFRAEKLVENDFEALLMYFNCNLNHLMSQDDIKILKSLPCYKSI SGRY  
VSIGKFGTCYVLTKSIPSAEVEKWTQSSSSAFLEEKIHLKELYEVIGCVPVDDLEVYLKH  
LLPKIENLSYDAKLEHLIYLNRLSSAEELSEIKEQLFEKLESLLI IHDANSRLKQAKHF  
YDRTVRVFEVMLPEKLFIPNDFFKLEQLIKPNHVT FMTSWVEFLRNIGLKYILSQQQL  
LQFAKEISVRANTENWSKETLQNTVDILLHHIFQERMDLLSGNFLKELSLIPFLC PERAP  
AEFIRFHPQYQEVNGTLPLIKFNGAQVNPKFKQCDVLQLLWTSCPILPEKATPLS IKEQE  
GSDLGPQEQLQVLNMLNVNLD PPLDKVINNCRNICNITLDEEMVKTRAKVLSIYEFL  
SAEKREFRFQLRGVAFVMVEDGWKLLKPEEVVINLEYESDFKPYLYKLPLELGT FHQLFK  
HLGTEDIISTKQYVEVLSRIFKNSEGKQLDPNEMRTVKRVVSGLFRSLQND SVKVRSDLE  
NVRDLALYLP SQDGRLVKSSILVFDDAPHYKSRIQGNIGVQMLVDLSQCYLGDHGFHTK  
LIMLPQKLRPRLSSILEEQ LDEETPKVCQFGALCSLQGRQLLLSSEQFITGLIRIMK  
HENDNAFLANEKAI RLCALREGLKVSCFEKLQTTLRVKGFNP IPHSRSETFAFLKRFG  
NAVILLYIQHSDSKDINFL LALAMTLKSATDNLISDTSYLIAMLCNDIYRIGEKDSL G  
VKYDSSEPSKLELPMPGTPIPAEIHYTLLMDPMNVFYPGEYVGYLVDAEGGDIYGSYQPT  
YTYAIIVQEVEREDADNSSFLGKIYQIDIGYSEYKIVSSLDLYKFSRPEESSQSRDSAPS  
TPTSPTEFLT PGLRSIPPLFSGRESHKTSSKHQSPKCLKVNSLPEILKEVTSVVEQAWKL  
PESERKKIIRRLYLKWHPPDKNPENHDIANEVFKHLQNEINRLEKQAFLDQ NADRASRRTF  
STSASRFQSDKYSFQRFYTSWNQEATSHKSERQQNKEKCPPSAGQTYSQRFFVPPTFKS  
VGNPVEARRWLRQARANFSAARNDLHKNANEVWCFKCYLSTKLALIAADYAVRGKSDKDV  
KPTALAQKIEEYSQQLEGLTNDVHTLEAYGVDSLKTRYPDLLPFPQIPNDRFTSEVAMRV  
MECTACII IKLENFMQQKV

>sp|Q9UBT2|SAE2\_HUMAN SUM0-activating enzyme subunit 2 OS=Homo sapiens GN=UBA2 PE=1 SV=2  
MALSRGLPRELAEAVAGGRVLVVGAGGIGCELLKNLVL TGFSHIDLIDLDITDVSNLNRQ  
FLFQKKHVGRSKAQVAKESVLQFYPKANIVAYHDSIMNPDYNVEFFRQFILVMNALDNRA  
ARNHVNRMCLAADVPLIESGTAGYLGQVTTIKKGVTECYECHPKPTQRTFPGCTIRNTPS  
EPIHCIVWAKYLFNLQFGEEDADQEVSPDRADPEAAWEPTAEARARASNEDGDIKRIST  
KEWAKSTGYDPVKLFTKLFKDDIRYLLTMDKLWRKRKPPVPLDWAEVQSQGEETNASDQQ

NEPQLGLKDQQVLDVKSYPARLFSKSIETLRVHLAEKGDGAELIWDKDDPSAMDFVTSAN  
LRMHIFSMNMKSRFDIKSMAGNIIPAIATTNAVIAGLIVLEGLKILSGKIDQCRTIFLNK  
QPNPRKLLVPCALDPPNPNCYVCASKPEVTVRLNVHKVTVLTLQDKIVKEKFAMVAPDV  
QIEDGKGTILISSEEGETEANNHKKLSEFGIRNGSRLQADDFLQDYTLINILHSEDLGK  
DVEFEVVGDAPEKVGPKQAEDAAKSITNGSDDGAQPSTSTAQEQDDVLIVDSDEEDSSNN  
ADVSEEERSRKRKLDEKENLSAKRSRIEQKEELDDVIALD

>sp|Q9NXZ1|SAGE1\_HUMAN Sarcoma antigen 1 OS=Homo sapiens GN=SAGE1 PE=1 SV=2

MQASPLQTSQPTPEELHAAAYFTNDGQQMRSDEVNLVATGHQSKKKHSRKSKRHSSSK  
RRKSMSSWLDKQEDAAVTHSICEERINNGQPVDNVLSTAPPWPDATIAHNIREERMENG  
QSRTDKVLSTAPPQLVHMAAGIPSMSTRDLHSTVTHNIREERMENGQPQPDNVLSTGPT  
GLINMAATPIPAMSARDLYATVTHNVCEQKMENVQPAPDNVLLTLRPRRINMTDTGISPM  
STRDPYATITYNVPEEKMEKGQPQPDNVLSTASTGLINVAGAGTPAISTNGLYSTVPHNV  
CEEKMENDQPQPNVLSTVQPVIIYLTATGIPGMNTRDQYATITHNVCEERVVNNQPLPS  
NALSTVLPGLAYLATADMPAMSTRDQHATIIHNLREEKKDNSQPTPDNVL SAVTPELINL  
AGAGIPPMSTRDQYATVNHVHEARMENGQRKQDNVLSNVL SGLINMAGASIPAMSSRD  
YATITHSVREEKMESGKPTDKVISNDAPQLGHMAAGIPSMSTKDLYATVTQNVHEERM  
ENNQPQPSYDLSTVLPGLTYLTVAGIPAMSTRDQYATVTHNVHEEKIKNGQAASDNVFST  
VPPAFINMAATGVSSMSTRDQYAAVTHNIREEKINNSQPAPGNILSTAPPWLRHMAAAGI  
SSTITRDLYVTATHSVHEEKMTNGQQAPDNSLSTVPPGCINLSGAGISCRSTRDLYATVI  
HDIQEEEMENDQTPPDGFLSNSDSPELINMTGHCMPNALDSFSHFTSLSKDELLYKPD  
SNEFAVGTKNYSVSAGDPPVTVM SLVETVPNTPQISPAMAKKINDDIKYQLMKEVRRFGQ  
NYERIFILLEEVQGS MKVKRQFVEFTIKEAARFKKVLIQQLKALKEIDSHCHLRKVKH  
MRKR

>sp|043865|SAHH2\_HUMAN Adenosylhomocysteinase 2 OS=Homo sapiens GN=AHCYL1 PE=1 SV=2

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RSLRSISQSSTDYSYSSAASYTDSSDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGREI  
EIAEQDMSALISLRKRAQGEKPLAGAKIVGCTHITAQTAVLIETLCALGAQCRWSACNIY  
STQNEVAAALAEAGVAVFAWKGESEDDFWWCIDRCVNMDGWQANMILDDGGDLTHWVYK  
YPNVFKKIRGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTQKFDNLYCCRESILDG  
LKRTTDVMFGGKQVVVCGYGEVKGCCAALKALGAIVYITEIDPICALQACMDGFRVVKL  
NEVIRQVDVITCTGNKNVVTREHLDRMKNSCIVCMGHSNTEIDVTS LRTPELTWERVR  
SQVDHVIWPDGKRVLLAEGRLNLSCSTVPTFVLSITATTQALALIELYNAPEGRYKQD  
VYLLPKKMDEYVASLHLP SFD AHL TELTDDQAKYLGLNKNGPFPKNYYRY

>sp|Q9NSC2|SALL1\_HUMAN Sal-like protein 1 OS=Homo sapiens GN=SALL1 PE=1 SV=2

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HKKNCTKNQLVLIVNENPASPPETFSPSPPPDNPEQMNDTVNKTDQVDCSDLSEHNGLD  
REESMEVEAPVANKSGSGTSSGSHSSTAPSSSSSSSSSSGGGSSSTGTSAITTSLPQLG  
DLTTLGNFSVINSNVI IENLQSTKVAVAQFSQEARGGASGGKLAVPALMEQLLALQQQQ  
IHQLQLIEQIRHQILLASQNA DLPTSSSPSQGTLRTSANPLSTLSSHLSQQLAAAAGLA  
QSLASQSASISGVKQLPPIQLPQSSSGNTIIPSNSGSSPNMNILAAVTPSSEKVASSA  
GASHVSNPAVSSSSSPAFAISSLLSPASNPLLPQQASANSVFPSPLPNIGTTAEDLNSLS  
ALAQQRKSKPPNVTAFAEKSTSDEAFFKHKCRFCAKVFGSDSALQIHLRSHTGERPFCN  
ICGNRFSTKGNLKVHFQRHKEKYPHIQMNPYPVPEHLNIPSTSTGIPYGMSIPPEKPVTS  
WLDTKPVLPTLTTSVGLPLPPTPLSLIPFIKTEEPAPIPI SHSATSPPGSVKSDSGGPES

ATRNLGGLPEEAEGSTLPPSGGKSEESGMVNTNSVPTASSSVLSSPAADCGPAGSATTFTN  
PLLPLMSEQFKAKFPFGGLDSAQASETSKLQQLVENIDKKATDPNECIICHRVLSQCQA  
LKMHYRHTTGERPFCKICGRAFTTKGNLKTHYSVHRAMPPLRVQHSCPICQKKFTNAV  
LQQHIRMHMGQIPNTPVPDSYSESMESDTGSFDEKNFDDLNFSDENMEDCEGSIPDT  
PKSADASQDSLSSSPLPLEMSSIAALENQMKMINAGLAELQASLKSVENGSIEGDVLN  
DSSSVGGDMESQSAGSPAISESTSSMQALSPSNSTQEFHKSPSIEEKPQRAVPSEFANGL  
SPTPVNGGALDLTSSHAEKI IKEDSLGILFPRDRGKFKNTACDICGKTFACQSALDIHY  
RSHTKERPFICTVCNRGFSTKGNLQHMLTHQMRDLPSQLFEPSSNLGPNQNSAVIPANS  
LSSLIKTEVNGFVHVSPQSDKDTPTSHVPSGPLSSSATSPVLLPALPRRTPKQHYCNTCG  
KTFSSSSALQIHERHTTGEKPFACITCRAFTTKGNLKVHMGTHMWNSTPARRGRRLSVD  
GPMFTLGGNPVKFPEMFQKDLAARSGSGDPSSFWNQYAAALSNGLAMKANEISVIQNGGI  
PPIPGSLGSGNSSPVSGLTGNLERLQNSEPNAPLAGLEKMASSENGTNFRFTRFVEDSKE  
IVTS

>sp|Q5VXD3|SAM13\_HUMAN Sterile alpha motif domain-containing protein 13 OS=Homo sapiens  
GN=SAMD13 PE=2 SV=1

MANSLLEGVFAEVKEPCSLPMLSVDMENKENGSGVGKNSMENGRPPDPADWAVMDVVNYF  
RTVGFEEQASAFQEQEIDGKSLLLMTNRDVLTLGLQLKLGPALKIYEYHVKPLQTKHLKNN  
SS

>sp|O00631|SARCO\_HUMAN Sarcolipin OS=Homo sapiens GN=SLN PE=1 SV=1  
MGINTRELFLNFTIVLITVILMWLLVRSYQY

>sp|O94885|SASH1\_HUMAN SAM and SH3 domain-containing protein 1 OS=Homo sapiens GN=SASH1  
PE=1 SV=3

MEDAGAAGPGPEPEPEPEPEPEPAPEPEPEPKPGAGTSEAFSRLWTDVMGILDGSLGNID  
DLAQYADYYNTCFSDVCERMEELRKRRVSQDLEVEKPDASPTSLQLRSQIEESLGFCSA  
VSTPEVERKNPLHKSNSDSSVGKGDWKKKNKYFWQNFRKNQKGI MRQTSKGEDVGYVAS  
EITMSDEERIQLMMVKEKMITIEEALARLKEYEAQHRQSAALDPADWPDGSYPTFDGSS  
NCNSREQSDDETESVKFKRLHKLNVNSTRVRKKLIRVEEMKKPSTEGGEEHVFENSPVL  
DERSALYSGVHKPLFFDGSPEKPPEDDSLSLTSPSSSSLDTWAGRKLVKTFSGGESR  
GLIKPPKMGTFFSYP EEEKAQKVSRSLTEGEMKKGLGSLSHGRTCFSGGFDLTNRSLHV  
GSNNSDPMGKEGDFVYKEVKSPTASRISLGKKVKS VKETMRKRMSKKYSSSVSEQDSGL  
DGMPGSPPPSQPDPEHLDPKPKL KAGGSVESLRSSLSGQSSMSGQTVSTDSSTSNRESVK  
SEDGDDEEPPYRGPFCGRARVHTDFTSPYD TDSLKLKGDIDII SKPPMGTMGLLNN  
KVGTFKFIYVDV LSEDEEKPKRPTRRRRKGRPPQPKSVEDLLDRINLKEHMPTFLFNGYE  
DLDTFKLLEEEDLDELNIRDPEHRAVLLTAVELLQEYDSNSDQSGSQEKLLVDSQGLSGC  
SPRDSGCYESSLENLNGKTRKASLLSAKSSTEPSLKSF SRNLGNYPTLPLMKSGDALKQ  
GQEEGRLGGGLAPDTSKSCDPPGVTGLNKNRRSLPVSICRSCETLEGPTVDTWPRSHSL  
DDLQVEPGA EQDVPTTEVTEPPPQIVPEVPQKTASSTKAQPLEQDSAVDNALLLTQSKRF  
SEPQKLT TTKLEGSI AASGRGLSPPQCLPRNYDAQPPGAKHGLARTPLEGHRKGHEFEGT  
HHPLGTKEGVDAEQRMQPKIPSQPPVP AKKSRERLANGLHPVPMGPSGALPSPDAPCLP  
VKRGSPASPTSPSDCPPALAPRPLSGQAPGSPPSTRPPWP LSELPENTSLQEHGVKLGPA  
LTRKVSCARGVDLETLTENKLHAEGLDTEEPYSDKHGRCGIPEALVQRYAEDLDQPERD  
VAANMDQIRVKQLRKQHRMAIPSGGLTEICRKPVSPGCISSVSDWLISIGLPMYAGTLST  
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>sp|015027|SC16A\_HUMAN Protein transport protein Sec16A OS=Homo sapiens GN=SEC16A PE=1 SV=3

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SGVPCATSVPHFPTPSILHQGPGEHQHSPLVAPPAALPSDGRDEVSHLQSGSHLANNSDP  
ESTFRQNPRIVNH WASPELRQNPGVKNEHRPASALVNPLARGDSPENRTHHPLGAGAGSG  
CAPLEADSGASGALAMFFQGGETENEENLSSEKAGLSGQADFDDFCSSPGLGRPPAPTHV  
GAGSLCQALLPGSPNEAAGDVWGD TASTGVPDASGSQYENVENLEFVQNQEVL PSEPLNL  
DPSSPSDQFRYGPLPGPAVPRHGAVCHTGAPDATLHTVHPDSVSSSYSSRSHGRLSGSAR  
PQELVGTFIQQEVGKPEDEASGSFFKQIDSSPVGGETDETTVSQNYRGSVSQPSTPSPPK  
PTGIFQTSANSSFEPVKSHLVGVKPF EADRANVVGEVRETCVRQKQCRPAAALPDASPGN  
LEQPPDNMETLCAPQVCPLPLNSTTEAVHMLPHAGAPPLDTVYPAPEKRPSARTQGPVKC  
ESPATTLWAQSELPDFGGNVLLAPAAPALYVCAKPQPPVVPPEEAMSGQQSRNPSSAAP  
VQSRGGIGASENLENPPKMGE EALQSQASSGYASLLSSPPTESLQNPVLI AQPDHSYN  
LAQPINFSVSLSNSHEKNQSWREALV GDRPAVSSWALGGDSGENTSLSGIPTSSVLSLSL  
PSSVAQSNFPQSGGASEMVS NQPANLLVQPPSQVPENLV PESQKDRKAGSALPGFANSP  
AGSTS VLVPPAHGTLVPDGNKANHSSHQEDTYGALDFTLSRTLENPVNVYNPSHSDSLA  
SQQSVASHPRQSGPGAPNLD RFYQQVTKDAQGQGPLERAQQLVPPQQQASPPQLPKAMF  
SELSNPESLPAQGQAQNSAQSPASLVLDAGQQLPPRPPQSSSVSLVSSGSGQA AVPSEQ  
PWPQPVPALAPGPPPQDLAAYYYYRPLYDAYQPQYSLPYPPPEGAASLYYQDVYSLYEPR  
YRPYDGAASAYAQNRYRPEPERPSSRASHSSERPPPRQGYPEGYSSKSGWSSQSDYYAS  
YYSSQYDYGDPGHWD RYHSARVRDPRTYDRRYWCDAEYDAYRREHS AFGDRPEKRDNNW  
RYDPRFTGSFDDDPDHRDPYGE EVDRRSVHSEHSARSLSHAHSLASRRSSLSSHSHQSQ  
IYRSHNVAAGSYEAPLP PGSFHGFAYGTYRSNFSSGPGFPEYGPADTVWPAMEQVSSR  
PTSPEKFSVPHVCARFGPGGQLIKVIPNL PSEGQPALVEVHSMEALLQHTSEQEEMRAFP  
GPLAKDDTHKVDVINFAQNKAMKCLQENLIDKESASLLWNFIVLLCRQNGTVVGTDIAE  
LLLRDHRTVWLPGKSPNEANLIDFTNEAVEQVEEESGEAQLSFLTGGPAAAASSLERET  
ERFRELLLYGRKKDALESAMK NGLWGHALLASKMDSRTHARVMTRFANSLPINDPLQTV  
YQLMSGRMPAASTCCGDEK WGDWRPHLAMVLSNLNNMDVESRTMATMGDTLASRGLLDA  
AHFCYLMAQAGFGVYTKKTTKLVLIGSNHSLPFLKFATNEAIQRTEAYEYAQSLGAETCP  
LPSFQVFKEFIYSCR LAEMGLATQAFHYCEAIAKSILTQPHLYSPVLISQLVQMASQLRLF  
DPQLKEKPEEESLAAPT WLVHLQQVERQIKEGAGVWHQD GALPQQCPGTPSSEMEQLDRP  
GLSQPGALGIANPLLAVPAPSEHSSPSVRLLPSAPQTL PDGPLASPARVPMFPVPLPPG  
PLEPGPGCVTPGPALGFLEPSGPGLPPGVPPLQERRHLLQE ARSPDPGIVPQEAPVGNSL  
SELSEENFDGKFANLTPSRTVPDSEAPPGWDRADSGPTQPPLSLS PAPETKRPGQAAKKE  
TKEPKKGESWFFRWLP GKKKTEAYLPDDKNKSIVWDEKKNQWVNLNEPEEEKKAPPPPT  
SMPKTVQAAPPALPGPPGAPVNMYSRRAAGTRARYVDVLNPSGTQRSEPALAPADFVAPL  
APLPISNLFVPTDAEEPQLPDGTGREGPAAARGLANPEPAPEKVLSSAASLP GSELP  
SSRPEGSQGGELSRCSSMSLSREVSQHFNQAPGDLPAAGGPPSGAMPFYNPAQLAQACA  
TSGSSRLGRIGQRKHLVLN

>sp|Q4G0G5|SC2B2\_HUMAN Secretoglobin family 2B member 2 OS=Homo sapiens GN=SCGB2B2 PE=3 SV=1

MRVTSATCALLLALICSVQLGDA CLDIDKLLANVVFVDSQDLLKEELARYNPSPLTEESF  
LNVQQCFANVSVTERFAHSVVIKKILQSNDCIEAAF

>sp|P53794|SC5A3\_HUMAN Sodium/myo-inositol cotransporter OS=Homo sapiens GN=SLC5A3 PE=1 SV=2

MRAVLDTADIAIVALYFILVMCIGFFAMWKSNRSTVSGYFLAGRSMWVTIGASLFVSNIGSEHFIFLAGSGAASGFAVGAWEFNALLLQLLGWVFIPIYIRSGVYTMPEYLSKRFGGHRIQVYFAALSLILYIFTKLSVDLYSGALFIQESLGNLYVSVILLIGMTALLTVTGGLVAVIYDTLQALLMIIGALTLMIIISIMEIGGFEEVKRRYMLASPDVTSILLTYNLSNTNSCNVSPKKEALKMLRNPTDEDVWPWPGFILGQTPASVWYWCADQVIVQRVLAANKIAHAKGSTLMAGFLKLLPMFIIVVPGMISRILFTDDIACINPEHCMLVCGSRAGCSNIAYPRLVMKLVPVGLRGLMMAVMIAALMSDLSIFNSASTIFTLDVYKLIRKSASSRELMIVGRIFVAFMVVISIAWVPIIVEMQGGQMYLIQEVDYLTTPVAALFLLAIFWKRCNEQGAFYGGMAGFVLGAVRLILAFAYRAPECDQPDNRPGFIKDIHYMYVATGLFWVTGLITVIVSLLTPPTKEQIRTTTFWSKKNLVVKENCSPKEEYQMQEKSILRCSENNETINHIIPNGKSEDSIKGLQPEDVNLLVTCREEGNPVASLGHSEAETPVDAYSNGQAALMGEKERKKETDDGGRYWKFIDWFCGFKSKSLSKRSLRDLMEEEAVCLQMLEETRQVKVILNIGLFAVCSLGFIMFVYFSL

>sp|P60468|SC61B\_HUMAN Protein transport protein Sec61 subunit beta OS=Homo sapiens GN=SEC61B PE=1 SV=2

MPGPTPSGTNVGSSGRSPSKAVAARAAGSTVRQRKNASCGTRSAGRTTSAGTGGMWRFYTEDSPGLKVGVPVPLVMSLLFIASVFMHLHIWKYTRS

>sp|P31645|SC6A4\_HUMAN Sodium-dependent serotonin transporter OS=Homo sapiens GN=SLC6A4 PE=1 SV=1

METTPLNSQKQLSACEDGEDCQENGVLQKVVPPTPGDKVESGQISNGYSAVPSPGAGDDTRHSIPATTTTLVAELHQGERETWGGKVDLFLSVIGYAVDLGNVWRFYPYICYQNGGGAFLLPYTIMAFGGIPLFYMELALGQYHRNGCISIWKICPIFKGIGYAICIIAFYIASYNTIMAWALYYLISSTFDQLPWTSCKNWNTGNCTNYFSEDNITWLHSTSPAEEFYTRHVLQIHRSKGLQDLGGISWQLALCIMLIFTVIYFSIWKGVKTSKGVVWVTATFPYIILSVLLVRGATLPGAWRGVLFYLPKNWQKLEETGVWIDAAAQIFFSLPGFGVLLAFASYNKFNNNCYQDALVTSVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPSLLFITAEAIANMPASTFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHVWAKRRERFVLAVVITCFFGSLVLTFTGGAYVVKLLEEYATGPAVLTVALLIEAVAVSWFYGITQFCRDVKEMLGFSPGWFWRICWVAISPLFLLFIICSFLMSPPQLRLFQYNYPYWSIILGYCIGTSSFICIPTYIAYRLIITPGTFKERIIKSITPETPTEIPCGDIRLNAV

>sp|P48067|SC6A9\_HUMAN Sodium- and chloride-dependent glycine transporter 1 OS=Homo sapiens GN=SLC6A9 PE=1 SV=3

MSGGDTRAAIARPRMAAAHGPVAPSSPEQVTLLPVQRSFFLPPFSGATPSTSLAESVLKVWHGAYNSGLLPQLMAQHSLAMAQNGAVPSEATKRDQNLKRGWGNQIEFVLTSVGYAVGLGNVWRFYPYLCYRNGGAFMFPYFIMLIFCGIPLFFMELSFGQFASQGCLGVWRISPMFKGVGYGMMVVSTYIGIYNNVICIAFYFFSSMTHVLPWAYCNPWNTHDCAGVLDASNLNNGSRPAALPSNLSHLLNHSLQRTSPSEYWRLYVLKLSDDIGNFGEVRLPLLGLGVSWLVVFLCLIRGVKSSGKVYFTATFPYVLTILFVRGVTLEGAFDGIMYYLTPQWDKILEAKVWGDAASQIFYSLGCAWGGLITMASYNKFHNNCYRDSVIIISITNCATSVYAGFVIFSILGFMANHLGVDVSRVADHGPGLAFVAYPEALTLLPISPLWSLFFFMLILLGLGTQFCLETLVTAIVDEVGNEWILQKQTYVTLGAVAGFLLGIPLTSQAGIYWLLMDNYAASFSLVVISCIMCVAIMYIYGHRYNQDIQMMLGFPPLFFQICWRFVSPAIFFILVFTVIQYQPITYNHYYQPGWAVAIGFLMALSSVLCIPLYAMFRLCRTDGDITLLQRLKNATKPSRDWGPALLE

HRTGRYAPTIAPSPEDGFEVQPLHPDKAQIPIVGSNGSSRLQDSRI

>sp|O15126|SCAM1\_HUMAN Secretory carrier-associated membrane protein 1 OS=Homo sapiens  
GN=SCAMP1 PE=1 SV=2

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PAIMKPTEEHPAYTQIAKEHALAQAE LLKRQEELERKAAELDRREREMQNLSQHGRKNNW  
PPLPSNFPVGPFCFYQDFSVDIPVEFQKTVKLMYYLWMFHAVTLFLNIFGCLAWFCVDSAR  
AVDFGLSILWFLFTPCSFVCWYRPLYGAFRSDSSFRFFVFFVYICQFAVHVLQAAGFH  
NWGNCGWISSLTGLNQNI PVGIMMIIAALFTASAVISLVMFKKVHGLYRTTGASF EKAQ  
QEFATGVMSNKT VQTAAANAASTAASSAAQNAFKGNQI

>sp|Q6AZY7|SCAR3\_HUMAN Scavenger receptor class A member 3 OS=Homo sapiens GN=SCARA3 PE=1  
SV=1

MKVRSAGGDG DALCVTEEDLAGDDEDMPTFPCTQKGRPGPRCSRCQKNLSLHTSVRILYL  
FLALLLVAVAVLASLVFRKVDLSLEDISLTQSIYDKKLVLQMKNLQGLDPKALNNSCFCH  
EAGQLGPEIRKLQEELEGIQKLLAQEVQLDQTLQAQEVLTSTSRQISQEMGSCSFSIHQ  
VNQSLGLFLAQVRGWQATTAGLDLSKDLTQECYDVKAAVHQINFTVGQTSEWIHQIRK  
TDEETLTLQKIVTDWQNYTRLFSGLRTTSTKTGEAVKNIQATLGASSQRISQNSSESMHDL  
VLQVMGLQLQLDNISSFLDDHEENMHDLQYHHTHAQNRTVERFESLEGRMASHEIEIGTI  
FTNINATDNHVSMLKYLDDVRLSCTLGFHTHAEELYLNKSVSIMLGTDDLRRERFSL  
SARLDLNVRLNSMIVEEMKAVDTQHGEILRNVTILRGAPGPPGPRGFKGDMGVKGPVGGR  
GPKGDPGSLGPLGPQGPQGQGEAGPVGERGPVGRGFPGLKGSKGSFGTGGPRGQPGPK  
GDIGPPGPEGPPGSPGSGPQKGKPGIAGKTGSPGQRGAMGPKGEPGIQPPGLPGPPGPP  
GSQSFY

>sp|Q8WXD2|SCG3\_HUMAN Secretogranin-3 OS=Homo sapiens GN=SCG3 PE=1 SV=3

MGFLGTGTWILVLVLP IQAFPKPGGSQDKSLHNRELSAERPLNEQIAEAEEDKIKKTYPP  
ENKPGQSNYSFVDNLNLKAI TEKEKIEKERQSIRSSPLDNKLNVEDVDSTKNRKLIDDY  
DSTKSGLDHFKQDDPDGLHQLDGTPLTAEDIVHKIAARIYEENDRAVFDKIVSKLLNLGL  
ITESQAHTLEDEVAEVLQKLISKEANNYEEDPNKPTSWTENQAGKIQEKVTPMAAIQDGL  
AKGENDETVSNTLTNLGLERRTKTYS EDNFEELQYFPNFYALLKSIDSEKEAKEKETLI  
TIMKTLIDFVKMMVKYGTISPEEGVSYLENLDEMIALQTKNLEKNATDNISKLPAPSE  
KSHEETDSTKEEAAKMEKEYGSLKDSTKDDNSNPGGKTDEPKGKTEAYLEAIRKNIEWLK  
KHDKKGNKEDYDLSKMRDFINKQADAYVEKGILDKEEAEAIKRIYSSL

>sp|Q9P0W5|SCH11\_HUMAN Schwannomin-interacting protein 1 OS=Homo sapiens GN=CHIP1 PE=1  
SV=1

MERSGQRVTTWDCDQKGHS DSDYREDGMDLGSDAGSSSSSRASSQSNSTKVTPCSECKS  
SSSPGGS L DLVSALEDYEEPPVYQKKVIDEWAPEEDGE EEEEEEDERDQRGYRDDRSPAR  
EPGDVSARTRSGGGGRSATTAMPPPVPNGNLHQHDPQDLRHNGNVVAGRPSCSRGPRR  
AIQKPQPAGGRRSGRGAAGGLCLQPPDGGTCVPEEPPVPPMDWEALEKHLAGLQFREQE  
VRNQGQARTNSTSAQKNERESIRQKLALGSFFDDGPGIYTSCSKSGKPSLSSRLQSGMNL  
QICFVNDSGSDKSDADDSKTETSLDTPLSPMKQSSSYSDRDTTEEESESLDDMDFLTR  
QKKLQAEAKMALAMAKPMQVEVEKQNRKKS PVADLLPHMPHISECLMKRSLKPTDLR  
DMTIGQLQVIVNDLHSQIESLNEELVQLLLIRDELHTEQDAMLVDIEDLTRHAESQQQKHM  
AEKMPAK

>sp|P51172|SCNND\_HUMAN Amiloride-sensitive sodium channel subunit delta OS=Homo sapiens  
GN=SCNN1D PE=1 SV=2

MAEHRSM DGRMEAATRGGSHLQAAAQT PPRPGPPSAPPPPPKEGHQEGLVELPASFRELL  
TFFCTNATI HGAI RLVCSRGNRLKTT SWGLLSL GALVALCWQLG LLLFERHWHRPVLM AVS  
VHSERKLLPLVTLC DGNPRRPSVLRHLELLDEFARENIDSLYNVNL SKGRAALSATVPR  
HEPPFHL DREIRLQRLSHSGSRVRVGFRLCNSTGGDCFYRGYTS GVA AVQDWYHFHYVDI  
LALLPAAWEDSHGSQDGHFVLS CSYDGLDCQARQFRTFHHPTYGSCYTV DGVWTAQRPGI  
THGVGLVLRVEQQPHLPLLSTLAGIRVMVHGRNHTPFLGHHSFSVRPGTEATISIREDEV  
HRLGSPYGHCTAGGEGVEVELLHNTSYTRQACLVSCFQQLMVETCSCGYLHPLPAGAEY  
CSSARHPAWGHCFYRLYQDLETHRLPCTSRCPRPCRESAFKLSTGTSRWPSAKSAGWTLA  
TLGEQGLPHQSHRQRSSLA KINIVYQELNYRSVEEAPVYSVPQLLSAMGSLCSLWFGASV  
LSLLELLELLLDASALTVLVGRRRLRRAWFSWPRASPASGASSIKPEASQMPPPAGGTSD  
DPEPSGPHLPRVMLPGVLAGVSAEESWAGPQPLETLDT

>sp|Q9UJQ7|SCP2D\_HUMAN SCP2 sterol-binding domain-containing protein 1 OS=Homo sapiens  
GN=SCP2D1 PE=2 SV=1

MWKRSDHQPKIKAEDGPLVGQFEVLG SVPEPAMPHLELSEFESFPVFQDIRLHIREVGA  
QLVKKVNAVFLQDITKNGKTI LRWTIDLKNGSGDMYPGPARLPADTVFTIPESVFMELVL  
GKMNPQKAFLAGKFKVSGKVLLSWKLERVFKDWAKF

>sp|Q9BRJ7|SDOS\_HUMAN Protein syndesmos OS=Homo sapiens GN=NUDT16L1 PE=1 SV=1

MSTAAPVELKQISRVEAMRLGPGWSHSCAMLYAANPGQLFGRIPMRFSVLMQMRFDGLL  
GFPGGFVDRRFWSLEDGLNRVLGLGLGCLRLTEADYLSSHLTEGPHRVVAHLYARQLTLE  
QLHAVEISAVHSRDHGLEVGLVRVPLYTQKDRVGGFPNFLSNAFVSTAKCQLLFALKVL  
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>sp|Q96S79|RSLAB\_HUMAN Ras-like protein family member 10B OS=Homo sapiens GN=RASL10B PE=2  
SV=1

MVSTYRVAVLGARGVGKSAIVRQFLYNEFSEVCVPTTARRLYLP AVVMNGHVHDLQILDF  
PPISAFPVNTLQEWADTCCRGLRSVHAYILVYDICCDFSFEYVKTI RQQILETRVIGTSE  
TPIIIVGNKRDLQRGRVIPRWNVSHLVRKTKWCGYVECSAKYNWHILLFSELLKSVGCA  
RCKHVHAALRFQGALRRNRCAIM

>sp|Q86UC2|RSPH3\_HUMAN Radial spoke head protein 3 homolog OS=Homo sapiens GN=RSPH3 PE=1  
SV=1

MTVKPAKAASLARNLAKRRRTYLGAAGRSQEPEVPCA AVLPGKPGDRNCPEFPPPDRTL  
GCWATDAAPAAGLCGAGSEPSIAPTSCAGNLPSRPPLLSPLLASRNPCWHYLHLSGSH  
NTLAPTCFKAKLHRKGSQPPDMASALTDRTSRAPSTYTYTSRPRALPCQRSRYRDSLQ  
PDEEPMHYGNIMYDRRVIRGNTYALQTGPLLGRPDSLELQRQREARKRALARKQAQEQLR  
PQTPEPVEGRKHVDVQTELYLEEIADRIIEVDMECQTD AFLDRPPTPLFIPAKTGKDVAT  
QILEGELFDFDLEV KPVLEV LGKTIEQSLLEVMEEEELANLRASQREYEELRN SERAEV  
QRLEEQERRHREEKERRKKQWEIMHKHNETSQKIAARAF AQRYLADLLPSVFGSLRDSG  
YFYDPIERDIEIGFLPWLMEVEKTM EYSMVGRTVLDMLIREVVEKRLCMYEHGEDTHQS  
PEPEDEPGPGAMTESLEASEFLEQSMSQTRELLLDGGYLQRTTYDRRSSQERKFMEERE  
LLGQDEETAMRKSLGEEELS

>sp|Q7L4I2|RSRC2\_HUMAN Arginine/serine-rich coiled-coil protein 2 OS=Homo sapiens  
GN=RSRC2 PE=1 SV=1

MAASDTERDGLAPEKTSPDRDKKKEQSEVSVSPRASKHHYSRSRSRERKRKSDNEGRK  
HRSRSRSKEGRRHESKDKSSKKHKHSEEHNDKEHSSDKGRERLNSSENGEDRHKRKRKSS  
RGRSHRSRSRERRHRSRSRERKKSRSRSRERKKSRSRSRERKKSRSRSRERKRIRSR

RSRSRHRHRTSRSRTRSRSDRKKRIEKPRRFSRSLSRTPSPPPFRGRNTAMDAQEALA  
RRLERAKKLQEQRKEMVEKQKQKEIAAAAAATGGSVLNVAALLASGTQVTPQIAMAAQMA  
ALQAKALAETGIAVPSYYPNPAAVNPMKFAEQEKRRKMLWQGKKEGDKSQSAEIWEKLNFG  
NKDQNVKFRKLMGIKSEDEAGCSSVDEESYKTLKQEEVFRNLDAQYEMARSQTHTQRGM  
GLGFTSSMRGMDAV

>sp|P82933|RT09\_HUMAN 28S ribosomal protein S9, mitochondrial OS=Homo sapiens GN=MRPS9  
PE=1 SV=2

MAAPCVSYGGAVSYRLLWGRGSLARKQGLWKTAAPELQTNVRSQILRLRHTAFVIPKKN  
VPTSKRETYTEDFIKKQIEEFNIGKRHLANMMGEDPETFTQEDIDRAIAYLFPSGLFEKR  
ARPVMKHPEQIFPRQRAIQWGEDGRPFHYLFYTGKQSYYSMLHDVYGMLLNLEKHQSHLQ  
AKSLLPEKTVTRDVIGSRWLKEELEEMLVEKLSLDYMQFIRLLEKLLTSQCGAAEEEF  
VQFRRSVTLESKKQLIEPVQYDEQGMFAFSKSEGRKKTAKAEAIYKHGSGRIKVNIDY  
QLYFPITQDREQLMFPFHFVDRLGKHDVTCTVSGGGRSAQAGAIRLAMAKALCSFVTEDE  
VEWMRQAGLLTTDPRVRERKKPGQEGARRKFTWKKR

>sp|O15235|RT12\_HUMAN 28S ribosomal protein S12, mitochondrial OS=Homo sapiens GN=MRPS12  
PE=1 SV=1

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGRPQLKG  
VVLCTFTRKPKKPNANRKCVRRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPG  
VKLTVVRGKYDCGHVQKK

>sp|Q9Y2R5|RT17\_HUMAN 28S ribosomal protein S17, mitochondrial OS=Homo sapiens GN=MRPS17  
PE=1 SV=1

MSVVRSSVHARWIVGKVIKTMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTV  
GDIVLLRALPVPRAKHVKHELAIEIVFKVGKVIDPVTGKPCAGTTYLESPLSSETTQLSKN  
LEELNISSAQ

>sp|Q8IZC4|RTKN2\_HUMAN Rhotekin-2 OS=Homo sapiens GN=RTKN2 PE=2 SV=1

MEGSLRGPALRLAGLPTQQDCNIQEKIDLEIRMREGIWKLLSLSTQKDQVLHAVKNLMV  
CNARLMAYTSELQKLEEQIANQTGRCDVKFESKERTACKGKIAISDIRIPLMWKSDHFS  
NKERSRRYAIFCLFKMGANVFDTDVNVVDKTIITDICFENVTFNEAGPDFQIKVEVYSCC  
TEESSITNTPKKLAKKLKTSISKATGKKISSVLQEEDDEMCLLLSSAVFGVKYNLLAHTT  
LTLESAEDSFKTHNLSINGNEESSFWLPLYGNMCCRLVAQPACMAEDAFAGFLNQQQMVE  
GLISWRRLYCVLRGGKLYCFYSPEEIEAKVEPALVVPINKETRIRAMDKDAKKRIHNFVS  
INPVPQGAIQIFAVDNREDLQKWMEAFWQHFFDLQWKHCCEELMKIEIMSPRKPLFL  
TKEATSVYHDMSIDSPMKLES LTDIIQKKIEETNGQFLIGQHEESLPPPWATLFDGNHQM  
VIQKKVLYPASEPLHDEKGGKRQAPLPPSDKLPFSLKSQSNTDQLVKDNWGKTSVTSQTSS  
LDTKLSTLMHHLQKPMAPRKL PARRNRLSDGEHTDTKTNFEAKPVPAPRQKSIKDILD  
PRSWLQAQV

>sp|Q92622|RUBIC\_HUMAN Run domain Beclin-1-interacting and cysteine-rich domain-  
containing protein OS=Homo sapiens GN=RUBCN PE=1 SV=4

MRPEGAGMELGGGEERLPEESRREHWQLLGNLKTVEGLVSTNSPNVWSKYGGLERLCRD  
MQSILYHGLIRDQACRRQTDYQWQFVKDIRWLSPHSALHVEKFISVHENDQSSADGASERA  
VAELWLQHSLQYHCLSAQLRPLLGDQRQYIRKFYTDAAFLLSDAHVTAMLQCLEAVEQNNP  
RLLAQIDASMFARKHESPLLVTKSQSLTALPSSTYTPPNSYAQHSYFGSFSSLHQSVNN  
GSERRSTSFPLSGPPRKPQESRGHVSPAEDQTIQAPPVSVSALARDSPLTPNEMSSSTLT  
SPIEASWVSSQNDSPGDASEGPEYLAIGNLDPRGRTASCQSHSSNAESSSSNLFSSSSSQ

KPDSAASSLGDQEGGGESQLSSVLRSSFSEGGTLTVTSGAKKSHIRSHSDTSIASRGAP  
ESCNDKAKLRGPLPYSGQSSEVSTPSSLYMEYEGGRYLCSGEGMFRPSEGQSLISYLSE  
QDFGSCADLEKENAHFSISESLIAAIELMKCNMMSQCLEEEVEEEDSDREIQELKQKIR  
LRRQQIRTKNLLPMYQEAHGSFRVTSSSSQFSSRDSAQLSDSGSADEVDEFIQDADIR  
RNTASSSSKSFVSSQSFHCHLHSTSAEAVAMGLLKQFEGMQLPAASELEWLVEHDAPQK  
LLPIPDSLPISPDDGQHADIYKLRIVRGNLEWAPRPQIIFNVHPAPTRKIAVAKQNYR  
CAGCGIRTPDYIKRLRYCEYLKYFCQCCHENAQMAIPSRVLKWDfsKYVVSNSFSKDL  
LIKIWNDFLNVQDINSALYRKVKLLNQVRLLRVQLCHMKNMFKTCRLAKELDSFDTVP  
GHLTEDLHLYSLNDLTATRKGEGLPRLAELTRAGATHVERCMLCQAKGFICEFCQNEDDI  
IFPFELHKCRTCEECKACYHKACFKSGSCPCRERLQARREALARQSLESYLSDYEEEPAE  
ALALEAAVLEAT

>sp|Q7L099|RUFY3\_HUMAN Protein RUFY3 OS=Homo sapiens GN=RUFY3 PE=1 SV=1

MSALTPPTDMPPTTDKITQAAMETIYLCKFRVSMDGEWLCLRELDDISLTPDPEPTHE  
PNYLMANERMNLMNAKLSIKGLIESALNLGRTLDSYAPLQQFFVVMHCLKHGLKAKK  
TFLGQNKSFWGPLELVEKLVPAAEITASVKDLPGLKTPVGRGAWRLALMQKLSEYM  
KALINKKELLSEFYEPNALMMEEGAI IAGLLVGLNVIDANFCMKGEDLDSQVGVIDFSM  
YLKDGNSKSGTEGDGQITAILDQKNYVEELNRHLNATVNNLQAKVDALEKSNTKLTELA  
VANNRIITLQEEMERVKEESSYILESNRKGPQDRTAEGQALSEARKHLKEETQLRLDVE  
KELEMQISMRQEMELAMKMLEKDVCEKQDALVSLRQQDDLRLAKHELAFKLQSSDLGVK  
QKSELNSRLEETNQMAATIKQLEQSEKDLVKQAKTLNSAANKLIPKHH

>sp|Q6ZNE9|RUFY4\_HUMAN RUN and FYVE domain-containing protein 4 OS=Homo sapiens GN=RUFY4  
PE=1 SV=2

MAEEGAILKVTKDLRAAVSAILQGYGDGQGPVTDTSaelHRLCGCLELLLQFDQKEQKSF  
LGPRKDYWDFLCTALRRQRGNMEPIHFVRSQDKLKTPLGKGRAFI RFCLARGQLAEALQL  
CLLNSLTREWYGPSPLLCPERQEDILDSLYALNGVAFELDLQQPDLDGAWPMFSESRC  
SSSTQTQGRRPRKNKDAPKKIPAAAYGGPENVQIEDSHTSQAICLDAPSGQQLAGLPRSQ  
QQRHLPFFLEKKGESSRKHRYPQSMWEPEGKELQLDQEERAPWIEIFLGNSTPSTQGQGK  
GAMGTQKEVIGMAEVTGVLLVAEGQRTTEGTHKKEAWSHVQRLMPSPRGAVEGAVSG  
SRQSGGSSILGEPWVLQGHATKEDSTVENPQVQTEVTLVARREEQAEVSLQDEIKSLRL  
GLRKAEQQAQRQEQLLREQEGELQALREQLSRCQEERAELQAQLEQKQQAERRDAMYQE  
ELGGQRDLVQAMKRRVLELIQEKDRLWQRLQHLSSMAPECCVACSKIFGRFSRRYPCLRC  
GGLLCHACSM DYKKRDRCCPPCAQGREAVT

>sp|Q96NL0|RUN3B\_HUMAN RUN domain-containing protein 3B OS=Homo sapiens GN=RUNDC3B PE=2  
SV=1

MASRSLGGLSGIRGGGGGGGKKSLSARNAAVERRNLITVCRFSVKTLIDRSCFETIDDSS  
PEFNNFAAILEQILSHRLKEISQSCRWLAHLQIPLQGQVTWFGYESPRSFWDYIRVACRK  
VSQNCICS IENMENVSSRAKGRAWIRVALMEKHLSEYISTALRDFKTTRRFYEDGAIVL  
GEEANMLAGMLLGLNAIDFSFCLKGEGLDGSFPAVIDYTPYLKYIQSSDSISSDEEELRT  
LGSSGESSTPENVGPPFLMDENSWFNKCKRVKQKYQLTLEQKGYLEELLRLRENQLSES  
VSQNKILLQRIEDSLAHKLEKEQLEYI IVELQDQLTVLKNNDLRSRQELTAHLTNQWPS  
PGALDVNAVALDTLLYRKHNKQWYEKSYQSLDQLSAEVSLSQTS LDPGQSQEGDGKQDTL  
NVMSEKEDTPSLLGLGSLTSVASYKSLTSLKSN DYLASPTTEMTSPGLTPS

>sp|Q96GQ5|RUS1\_HUMAN RUS1 family protein C16orf58 OS=Homo sapiens GN=C16orf58 PE=1 SV=2  
MADDAGLETPLCSEQFGSGEARGCRAAADGSLQWEVGGWRWWGLSRAFTVKPEGRDAGEV

GASGAPSPPLSGLQAVFLPQGFPDSVSPDYLPYQLWDSVQAFASSLSGSLATQAVLLGIG  
VGNAKATVSAATATWLVKDSTGMLGRIVFAWWKSKLDCNAKWRLFADILNDVAMFLEI  
MAPVYPICFTMTVSTSNLAKCIVSVAGGATRAALT VHQARRNMADVSAKDSSQETLVNL  
AGLLVSLMLPLVSGCPGFSLGCFFLTALHIYANYRAVRALVMETLNEGRLRLVLKHYL  
QRGEVLDPTAANRMEPLWTGFWPAPSLSLGVPLHRLVSSVFELQQLVEGHQESYLLCWDQ  
SQNQVQVVLNQKAGPKTILRAATHGLMLGALQGDGPLPAELEELRNRVRAGPKKESWVVV  
KETHEVLDMLFPKFLKGLQDAGWKTEKHQLEVDEWRATWLLSPEKKVL

>sp|Q8N2Y8|RUSC2\_HUMAN Iporin OS=Homo sapiens GN=RUSC2 PE=1 SV=3

MDSPPKLTGETLIVHHIPLVHCQVPDRQCCGAGGGGGSTRPNPFCPELGITQPDQDLG  
QADSLFSSLHSTPGGTARSIDSTKSRSDGRGPGAPKRHNPFLLQEGVGEPGLGDLYDD  
SIGDSATQQSFHLHGTGQPNFHLSSFQLPPSGPRVGRPWGTTSRAGVVEGQEQEPVMTL  
DTQQCGTSHCCRPELEAETMELDECGPGGSGSGGGASDTSGFSFDQEWKLSDES PRNP  
GCSGSGDQHCRCSSTSSQSEAADQSMGYVSDSSCNSSDGLVTFSTLYNKMHGTPRANLN  
SAPQSCSDSSFCSHSDPGA FYLDLQPSPFESKMSYESHHPESGGREGGYGCPHASSPELD  
ANCNSYRPHCEPCPAVDLTACFQSQARLVVATQNYKLVTCDLSSQSSPAGSSITSC  
SEEHTKISPPPGPDPGPGSQSEYYLFQKPEVQPEEQEAVSSSTQAAAAVGPTVLEGQV  
YTNTSPPNLSTGRQSRSYDRSLQRSPVRLGSLERMLSCPVRLESGPAAMAGPGSPRR  
VTSFAELAKGRKKTGGSGPPLRVSVGDSSQEFSPIQEAQQDRGAPLDEGTCCSHSLPPM  
PLGPGMDLLGPDSPPWSTQVCQGPSSSEMPAGLRATGQGPLAQLMDPGPALPGSPANS  
HTQRDARARADGGGTESRPVLRYSKEQRPTTLPIQPFVQHHPKQLAKARALHLSQLY  
SLSGCSRTQQPAPLAAPAAQVSVPA PSGEQASTPRATGRGARKAGSEPETS RPSPLGSY  
SPIRSVGPFPGPSTDSSASTSCSPPEQPTATESLPPWSHSCPSAVRPATSQQPQKEDQKI  
LTLTEYRLHGTGSLPPLGWSRGLSRAESLARGGGEGSMATRPSNANHLSPQALKWREYR  
RKNPLGPPGLSGSLDRRSQEARLARRNPIFEFFGSLAASHLNCRLNGQAVKPLPLTCPD  
FQDPFSLTEKPPAEFCLSPDGSSAEISIDLLQKKGLVKAVNIAVDLIVAHFGTSRDPGVK  
AKLGNSSVSPNVGHLVLKYLCPAVRAVLEDGLKAFVLDVIIGQRKNMPWSVVEASTQLGP  
STKVLHGLYNKVSQFPELTSHTRMFNAFILGLLNIRSLEFWFNHLYNHEDI IQTHYQPWG  
FLSAAHTVCPGLFEELLLLLQLALLPFSLDLLFQHRLQSGQQQRQHKELLRVSQDLLL  
SAHSTLQLARARGQEGPGVDRAAQGERVKGVGASEGEEEEEEEEETEEVAEAAGGSGRA  
RWARGGQAGWYQLMQSSQVYIDGSI EGSRFPRGSSNSSEKKKGAGGGGPPQAPPPREG  
VVEGAEACPAEEALGRERGWPFWMGSPDVLAE LR SREREGPAASPAENEEGASEPS  
PGGIKWGHLFGSRKAQREARPTNRLPSDWLSLDKSMFQLVAQTVGSRREPEPKESLQEPH  
SPALPSSPPCEVQALCHHLATGPGQLSFHKG DILRVLGRAGGDWLRC SRGPDSGLVPLAY  
VTLTPTPSPTPGSSQN

>sp|Q76EJ3|S35D2\_HUMAN UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter  
OS=Homo sapiens GN=SLC35D2 PE=1 SV=1

MTAGGQAEAGAGGEPGAARLPSRVARLLSALFYGTCSFLIVLVNKALLTTYGFPSPIFL  
GIGQMAATIMILYVSKLNKIIHFDPDFDKKIPVKLFPLPLLYVGNHISGLSSTSLSLPMF  
TVLRKFTIPLTLLLETIILGKYSLNIIILSVFAIILGAFIAAGSDLAFNLEGYIFVFLND  
IFTAANGVYTKQKMDPKELGKYGVLFYNACFMIIPTLIISVSTGDLQQATEFNQWKNVVF  
ILQFLLSCFLGFLMYSTVLC SYNSALT TAVVGAIKNVSVAYIGILIGGDYIFSLN FV  
GLNICMAGGLRYSFLTSSQLKPKPVGEENICLDLKS

>sp|Q8WV83|S35F5\_HUMAN Solute carrier family 35 member F5 OS=Homo sapiens GN=SLC35F5 PE=1  
SV=1

MVPPRRHRGAGRPGVLSSSPFRLRSKFSGIALEDLRRALKTRLQMCVFVMNRMNSQN  
SGFTQRRRMALGIVILLVDVIWVASSELTSYVFTQYNKPPFFSTFAKTSMFVLYLLGFII  
WKPWQQCTRGLRGKHAFFADAEGYFAACTTDTMNSSLSEPLYVPVKFHDLPSEKPES  
TNIDTEKTPKKSRRVFSNIMEIRQLPSSHALEAKLSRMSYPVKEQESILKTVGKLTATQV  
AKISFFFCFVWFLANLSYQEALSDTQVAIVNILSSTSGLFTLILAAVFPNSGDRFTLSK  
LLAVILSIGGVVLVNLAGESEKAGRDTVGSIWLAGAMLYAVYIVMIKRKVDREDKLDIP  
MFFGFVGLFNLLLLWPGFLLHYTGFEDEFEPNKVVLMCIIINGLIGTVLSEFLWLWGC  
LTSSLIGTLALSLTIPLSIIADMCMQKVQFSWFFAGAI PVFFSFFIVTLLCHYNNWDPV  
MVGIRRIFAFICRKHRIQRPEDSEQCESLISMHSVSQEDGAS

>sp|Q8N808|S35G3\_HUMAN Solute carrier family 35 member G3 OS=Homo sapiens GN=SLC35G3 PE=2  
SV=1

MAGSHPYFNQPDSTHPSPPSAPPSLRWYQRCQPSDATSGLLVALLGGGLPAGFVGPLSRM  
AYQASNLPSELLIWRCLFHLPIALLKLKRGDPLLGTDIRSRAFFCALLNLSIGCAYS  
AVQVVPAGNAATVRKGSSTVCSAVLTLCLSQGLSGYDWCGLGCGILGLIIIVGPGWLTL  
QEGTTGVYTALGYVEAFLGGLALSLRLLVYRSLHFPPCLPTVAFLSGLVGLLGSVPGLFV  
LQAPVLPSDLLSWSCVGAVGILALVSFTCVGYAVTKAHPALVCAVLHSEVVVALILQYYM  
LHETVAPSDIVAAGVVLGSAIITAQNLSCERTGRVEE

>sp|Q96QD8|S38A2\_HUMAN Sodium-coupled neutral amino acid transporter 2 OS=Homo sapiens  
GN=SLC38A2 PE=1 SV=2

MKKAEMGRFSISPDESSSYSSNSDFNYSYPTKQAALKSHYADVDPENQNFLESNLGKK  
KYETEFHPGTTSGFMSVFNLSNAIVGSGILGLSYAMANTGIALFIILLTFVSIFSLYSVH  
LLLKTANEGGSLLYEQLGYKAFGLVGKLAASGSITMQNIGAMSSYLFIVKYELPLVIQAL  
TNIEDKTGLWYLNNGNYLVLLVSLVVLPLSLFRNLGYLGYTSGLSLLCMVFFLIVVICKK  
FQVPCPVEAALIINETINTTLTQPTALVPALSHNVTENDSCRPHYFIFNSQTVYAVPILI  
FSFVCHPAVLPIYEELKDRSRRRMMNVSKISFFAMFLMYLLAALFGYLTfYEHVESELLH  
TYSSILGTDILLIVRLAVLMAVTLTPVVFIFIRSSVTHLLCASKDFSWWRHSLITVSI  
LAFTNLLVIFVPTIRDIFGFIGASAASMLIFILPSAFYIKLVKKEPMKSVQKIGALFFLL  
SGVLVMTGSMALIVLDWVHNAPGGGH

>sp|Q8WUX1|S38A5\_HUMAN Sodium-coupled neutral amino acid transporter 5 OS=Homo sapiens  
GN=SLC38A5 PE=1 SV=1

MELQDPKMNGALPSDAVGYRQEREGFLPSRGPAPGSKPVQFMDFEGKTSFGMSVFNLSNA  
IMGSGILGLAYAMAHTGVIFFLALLLCIALLSYSIHLTLCAGIAGIRAYEQLGQRAFG  
PAGKVVVATVICLHNVGAMSSYLFIIKSELPLVIGTFLYMDPEGDWFLKGNLLIIIVSVL  
IILPLALMKHLGYLGYTSGLSLTCLMFLVSVIYKKFQLGCAIGHNETAMESEALVGLPS  
QGLNSSCEAQMFTVDSQMSYTPIMAFVCHPEVLPITYELCRPSKRRMQAVANVSIGA  
MFCMYGLTATFGYLTfYSSVKAEMLMYSQKDPLILCVRLAVLLAVTLTPVVLFPPIRA  
LQQLLFPKGAFSWPRHVAIALILLVLVNLVICVPTIRDIFGVIGSTSAPSLIFILPSIF  
YLRIVPSEVEPFSLWPKIQALCFGVLGVLFMAVSLGFMFANWATGQSRMSGH

>sp|Q9NP94|S39A2\_HUMAN Zinc transporter ZIP2 OS=Homo sapiens GN=SLC39A2 PE=1 SV=2

MEQLLGIKLGCLFALLALTLCGLTPICFKWFQIDAARGHRLVLRLLGCISAGVFLGAG  
FMHMTAEALEEIESQIQKFMVQNRASERNSSGDADSAHMEYPYGELIISLGFFFVFLE  
SLALQCCPGAAGGSTVQDEEWGGAHIFELHSHGHLPSPSKGPLRALVLLSLSFHSVFEG  
LAVGLQPTVAATVQLCLAVLAHKGLVVFGVMRLVHLGTSSRWAVFSILLLALMSPLGLA  
VGLAVTGGDSEGGRLAQAVLEGVAAGTFLYVTFLEILPRELASPEAPLAKWSCVAAGFA



FMAFIALWA

>sp|Q8TF17|S3TC2\_HUMAN SH3 domain and tetratricopeptide repeat-containing protein 2  
OS=Homo sapiens GN=SH3TC2 PE=1 SV=2

MGGCFCIPRERSLTRGPGKETPSKDPTVSSECIASSEYKEKCFLPQNINPDLTSLFCVKS  
RSRRCVNGPLQEARRRLWALENEDQEVRLFKDLSARLVSIQSQAQFLITFKTMEEIW  
KFSTYLNLYGVSMCLEHLLFDHKYWLNCILVEDTEIQVSVDDKHLETIYLGLLIQEGHFF  
CRALCSVTPPAEKEGECLTLCKNELISVKMAEAGSELEGVSLVTGQRGLVLVSALEPLPL  
PFHQWFLKNYPGSCGLSRKRDWTGSYQIGRGCKALTGYEPGEKDELNFYQGESIEIIGF  
VIPGLQWFIFGKSTSSGQVGFVPTNRIDPDSYSPMSRNSAFLSDEERCSLLALGSDKQTEC  
SSFLHTLARTDITSVYRLSGFESIQNPPNDLSASQPEGFKVVRPGRAWEEHQAVGSRQSS  
SSEDSLEEELLSATSDSYRLEPDDLDPELLMDLSTGQEEEAENFAPILAFLDHEGYA  
DHFKSLYDFSFSFLTSSFYSFSEDEFVAYLEASRKWAKKSHMTWAHARLCFLLGRLSIR  
KVKLSQARVYFEEAIHILNGAFEDLSLVATLYINLAAIYLKQRLRHKGSALLEKAGALLA  
CLPDRESSAKHELDVVAYVLRQGIVVGSSPLEARACFLAIRLLLSLGRHEEVLPFAERLQ  
LLSGHPPASEAVASVLSFLYDKKYLPHLAVASVQQHGIQSAQGMSLPIWQVHLVLQNTTK  
LLGFSPGWGEVSALACPMRLQALAAEELADRSTQRALCLILSKVYLEHRSPDGAHYL  
SQALVLGQLLGEQESFESSLCLAWAYLLASQAKKALDVLEPLLCSLKETESLTQRGVIYN  
LLGLALQGEGRVNRAAKSYLRALNRAQEVGDVHNQAVAMANLGHLSLKSWAQHPARNYLL  
QAVRLYCELQASKETDMELVQVFLWLAQVLVSGHQLTHGLLCYEMALLFGLRHRHLKSQL  
QATKSLCHFYSVSPNPEACITYHEHWLALAQQLRDREMEGRLLLESLGQLYRNLNTARSL  
RRSLTCIKESLRIFIDLGETDKAAEAWLGAGRLHYLMQEDELVELCLQAAIQTALKSEEP  
LLALKLYEEAGDVFFNGTRHRHHAVEYYRAGAVPLARRLKAVRTELRFNKLTELQISLE  
GYEKALEFATLAARLSTVTGDQRQELVAFHRLATVYYSLHMYEMAEDCYLKTLSLCPWPWL  
QSPKEALYYAKVYYRLGRLTFCQLKDAHDATEYFLLALAAVLLGDEELQDTIRSRLDNI  
CQSPLWHSRPSGCSSERARWLSGGGLAL

>sp|Q96JW4|S41A2\_HUMAN Solute carrier family 41 member 2 OS=Homo sapiens GN=SLC41A2 PE=1  
SV=2

MTNSKGRSITDKTSGGPSSGGGFVDWTLRLNTIQSDKFLNLLSMVPVIYQKNQEDRHKK  
ANGIWQDGLSTAVQTFNSRSEQHMEYHSFSEQSFHANNGHASSSCSQKYDDYANYNYCDG  
RETSETTAMLQDEDISSDGEDAIVEVTPKLPKESSGIMALQILVPFLLAGFGTVSAGMV  
LDIVQHWEVFRKVTVEFILVPALLGLKGNLEMTLASRLSTAVNIGKMDSPIEKWNLIIGN  
LALKQVQATVVGFLAAVAAILGWIPGKYLDHSILLCSSSVATAFIASLLQGIIMVGV  
IVGSKKTGINPDNVATPIAASFGLITLAILAWISQGLYSCLETYYYISPLVGVFFLALT  
PIWIIIAAKHPATRTVLHSGWEPVITAMVISSIGGLILDTTVSDPNLVGIVVYTPVINGI  
GGNLVAIQASRISTYLHLHSIPGELPDEPKGCYYPFRFTFFGPGVNNKSAQVLLLLVIPGH  
LIFLYTIHLMKSGHTSLTIIFIVVYLFGAVLQVFTLLWIADWMVHHFWRKGDPSFSIP  
YLTALGDLLGTALLALSFFHLWLIGDRDGDVGD

>sp|Q96ER3|SAAL1\_HUMAN Protein SAAL1 OS=Homo sapiens GN=SAAL1 PE=1 SV=2

MDRNPSPPPPGRDKEEEEVAGGDCIGSTVYSKHWLFGVLSGLIQIVSPENTKSSSDDEE  
QLTELDEEMENEICRVWDMSMDEVALFLQEFNAPDIFMGVLA KSKCPRLREICVGILGN  
MACFQEICVSISSDKNLGQVLLHCLYSDPPTLLETSRLLLTCLSQA EVASVWVERIQEH  
PAIYDSICFIMSSSTNVDLLVKVGEVVDKLFDLDEKLMLEWVRNGAAQPLDQPQEESEEQ  
PVFRLVPCILEAAKQVRSENPEWLDVYMHILQLLTTVDDGIQAIVHCPDTGKDIWNLLFD  
LVCHEFCQSDDPPIILQEKTVLASVFSVLSAIYASQTEQEYLKIEKVDLPLIDSLIRVL

QNMEQCQKKPENSANSTEETKRTDLTQDDFHLKILKDILCEFLSNIFQALTKETVAQGV  
KEGQLSKQKCSSAFQNLFPYSPVVEDFIKILREVDKALADDLEKNFPSLKVQT

>sp|A6NKF1|SAC31\_HUMAN SAC3 domain-containing protein 1 OS=Homo sapiens GN=SAC3D1 PE=1  
SV=2

MAGRRAQTGSAPPRPAAPHRPASRAFPQHCRPRDAERPPSPRSPLMPGCELPVGTCPDM  
CPAAERAQREREHLRLEVVPGCRQDPPRADPQRAVKEYSRPAAGKPRPPPSQLRPPSV  
LLATVRYLAGEVAESADIARAEVASFVADRLRAVLDDLALQGAGDAEAAVVLEAALATLL  
TVVARLGPDAARGPADPVLLQAQVQEGFSLRRCYARGAGPHPRQPAFQGLFLLYNLGSV  
EALHEVLQLPAALRACPPLRKALAVDAAFREGNAARLFRLLQTLPLYLPSCAVQCHVGHR  
REALARFARAFSTPKGQTLPLGFMVNLLALDGLREARDLCQAHLPLDGEERVVFLRGY  
VEEGLPPASTCKVLVESKLGRRTLEEVMMAEEDEGTDPRGSPA

>sp|Q9UBE0|SAE1\_HUMAN SUMO-activating enzyme subunit 1 OS=Homo sapiens GN=SAE1 PE=1 SV=1

MVEKEEAGGGISEEEAAQYDRQIRLWGLEAQKRLRASRVLLVGLKGLGAEIAKNLILAGV  
KGLTMLDHEQVTPEDPGAQFLIRTGSVGRNRAEASLERAQNLNPMVDVKVDTEDIEKKPE  
SFFTQFDVAVCLTCCSRDVIKVDQICHKNSIKFFTGDVFGYHGYTFANLGEHEFVEEKT  
VAKVSQGVEDGPDTKRAKLDSSETTMVKKKVVFCPVKEALEVDWSSEKAKAALKRTTSDY  
FLLQVLLKFRDTKGRDPSSDTYEEDSELLQIRNDVLDLSGISPDLLPEDFVRYCFSEMA  
PVCVAVGGILAQEIWKALSQRDPPHNNFFFFDGMKNGIVECLGPK

>sp|Q9Y467|SALL2\_HUMAN Sal-like protein 2 OS=Homo sapiens GN=SALL2 PE=1 SV=4

MSRRKQKRKPQQLISDCEGPSASENGDASEEDHPQVCAKCAQFTDPTTEFLAHQACSTDP  
PVMV IIGGQENPNSSASSEPRPEGHNNPQVMDTEHSNPPDSGSSVPTDPTWGPERRGEE  
SPGHFLVAATGTAAGGGGLILASPKLGATPLPPESTPAPPPPPPPPPGVGSGHLNIP  
LILEELRVLQQRQIHQMOMTEQICRQVLLLSGLGQTVGAPASPSLPGTGASSTKPLLP  
LFSP IKPVQTSKTLASSSSSSSSGAETPKQAFFHLYHPLGSQHPFSAGGVGRSHKPTP  
APSPALPGSTDQLIASPHLAFPTTGLLAAQCLGAARGLEATASPGLLKPKNGSGELSYG  
EVMGPLEKPGGRHKRCFCAKVFSGDSALQIHLRSHTGERPYKCNVCGNRFTTRGNLKVHF  
HRHREKYPHVQMNPHVPPEHLDYVITSSGLPYGMSVPPEKAEEEEATPGGGVERKPLVAS  
TTALSATESLTLLSTSAGTATAPGLPAFNKFVLMKAVEPKNKADENTPPGSEGAISGVA  
ESSTATRMQLSKLVTSLPSWALLTNHFKSTGSFPFPYVLEPLGASPSETSKLQQLVEKID  
RQGAVAVTSAASGAPTTAPAPSSSASSGPNQCVICLRVLSCPRALRLHYGQHGGERPFK  
CKVCGRAFSTRGNLRAHFVGHKASPAARAQNSCPICQKKFTNAVTLQQHVRMHLGGQIPN  
GGTALPEGGGAQENGSEQSTVSGAGSFPQQQSQQPSPEEELSEEEEEDEEEEDVTDE  
DSLGRGSESGGEKAISVRGDSEEASGAEEVGTAAAAATAGKEMDSNEKTTQQSSLPPP  
PPPDSDLQPPMEQGSSGVLGGKEEGKPERSSSPASALTPEGEATSVTLVEELSLQEAM  
RKEPGESSSRKACEVCGQAFPSQAALAEHQTHPKGPLFTCVFCRQGFLERATLKKHML  
LAHHQVQPFAPHGPQNIALLSLVPGCSPSITSTGLSPFPRKDDPTIP

>sp|Q9UJQ4|SALL4\_HUMAN Sal-like protein 4 OS=Homo sapiens GN=SALL4 PE=1 SV=1

MSRRKQAKPQHINSEEDQGEQQPQQQTPEFADAAPAAPAGELGAPVNHGNDVASEDE  
ATVKRLRREETHVCEKCAEFFSISEFLEHKKNCTKNPPVIMNDSEGVPVSEDFSGAVL  
SHQPTSPGSKDCHRENGSSSEDMEKPDAAESVVYLKTETALPPTPDISYLAQKQVANTN  
VTLQALRGTKVAVNQRSADALPAPVPGANSIPWVLEQILCLQQQQLQQIQLTEQIRIQVN  
MWASHALHSSGAGADTLKTLGSHMSQQVSAVALLSQKAGSQGLSLDALKQAKLPHANIP  
SATSSLSPLAPFTLKPDPGTRVLPNVMSRLPSALLPQAPGSVLFQSPFSTVALDTSKKGK  
GKPPNISAVDVKPKDEAALYKHKCKYCSKVFGTDSSLQIHLRSHTGERPFVCSVCGRHFT

TKGNLKVHFHRHPQVKANQLFAEFQDKVAAGNGIPYALSVPDPIDEPSLSLDSKPVLT  
TSVGLPQNLSSGTNPKDLTGGSLPGDLQPGPSPESEGGPTLPGVGPNYNSPRAGGFQGS  
TPEPGSETLKLQQLVENIDKATTDPNECLICHRVLSQCSSLKMHYRHTHTGERPFQCKICG  
RAFSTKGNLKTGLVHRTNTSIKTQHSCPICQKKFTNAVMLQQHIRMHMGQIPNTPLPE  
NPCDFTGSEPMTVGENGSTGAICHDDVIESIDVEEVSSQEAPSSSSKVPTPLPSIHSASP  
TLGFAMMASLDAPGKVGPAFNLQRQGSRENGSVESDGLTNDSSSLMGDQEYQSRSPDIL  
ETTSFQALSPANQAESIKSKSPDAGSKAESSENSRTEMEGRSSLPSTFIRAPPTYVKVE  
VPGTFVGPSTLSPGMTPLLAQPRRQAKQHGGCTRCGKNFSSASALQIHERHTHTGEKPFVC  
NICGRAFTTKGNLKVHYMTHGANNNSARRGRKLAIENTMALLGTDGKRVSEIFPKEILAP  
SVNVDPVVWNQYTSMLNGLAVKTNEISVIQSGGVPTLPVSLGATSVVNNATVSKMDGSQ  
SGISADVEKPSATDGVPKHQFPHFLEENKIAVS

>sp|Q70HW3|SAMC\_HUMAN S-adenosylmethionine mitochondrial carrier protein OS=Homo sapiens  
GN=SLC25A26 PE=1 SV=1

MDRPGFVAALVAGGVAGVSVDLILFPLDTIKTRLQSPQGFKAGGFHGIYAGVPSAAIGS  
FPNAAFFITYEYVKWFLHADSSSYLTPMKHMLAASAGEVVACLIRVPSEVVKQRAQVSA  
STRTFQIFSNILYEEGIQGLYRGYKSTVLREIPFSLVQFPLWESLKALWSWRQDHVVDWS  
QSAVCGAFAGGFAAAVTTPLDVAKTRITLAKAGSSTADGNVLSVLHGVWRSQGLAGLFAG  
VFPRMAAISLGGFIFLGAYDRTHSLLLEVGRKSP

>sp|Q7Z3H4|SAMD7\_HUMAN Sterile alpha motif domain-containing protein 7 OS=Homo sapiens  
GN=SAMD7 PE=2 SV=1

MAVNPLLTPTGQQTIIPLIPSPFGPPTVDRDVLPTVAPTDPQFCVPSQFGSSVLPNTNM  
ANVLSSRIYPGWGILPPESIKAVARRNEMIQRHHTARTEMEMYAIYQRRMEKINPKGLA  
GLGIPFLYGSSVPAAPAAHYGRSMLPAGDLHFHRSTLRNLQGNPMLAATAPHFEESWGQR  
CRRLRKNTGNQKALDSAESSKSQAEEKILGQTHAVPYEEDHYAKDPDIEAPSNQKSSET  
NEKPTTALANTCGELEPTHRKPWGSHTTTLKAKAWDDGKEEASEQIFATCDEKNGVCPV  
PRPSLPGTHALVTIGGNLSLEDIQKWTVDVHSFIRSLPGCSDYAQVFKDHAIDGETLP  
LLTEEHLRGTMGLKLGPALKIQSQVSHVGSMFYKKTLSFPPIRQAFDQPADTSPLLDPNS  
WSDTMNIFCPQDTIIPKGIERGSMRN

>sp|Q96LT4|SAMD8\_HUMAN Sphingomyelin synthase-related protein 1 OS=Homo sapiens GN=SAMD8  
PE=1 SV=2

MAGPNQLCIRRWTTKHVAVWLKDEGFFEYVDILCNKHRLDGITLLTLTEYDLRSPPLEIK  
VLGDIKRLMLSVRKLQKIHIDVLEEMGYNSDSPMGSMTPFISALQSTDWLCNGELSHDCD  
GPITDLNSDQYQYMNGKNKHSVRRLDPEYWKILSCIYVFIVFGFTSFIMVIVHERVPDM  
QTYPPLPDIFLDSVPRIPWAFAMTEVCGMILCYIWLLVLLHKhRSILLRRLCSLMGTVF  
LLRCFTMFVTSLSVPGQHLQCTGKIYGSVWEKLHRAFAIWSGFGMTLTGVHTCGDYMFG  
HTVVLTMLNFFVTEYTPRSWNFLHTLSWVLNLFGIFFILAAHEHYSIDVFIAFYITTRLF  
LYYHTLANTRAYQQSRRARIWFPMFSEFECNVNGTVPNEYCWPFSPKPAIMKRLIG

>sp|Q9NSI8|SAMN1\_HUMAN SAM domain-containing protein SAMSN-1 OS=Homo sapiens GN=SAMSN1  
PE=1 SV=1

MLKRKPSNVSEKEKHQKPKRSSSFGNFDRFRNNSLSKPDDSTEAHEGDPTNGSGEQSKTS  
NNGGGLGKKMRAISWTMKKKVGGKYIKALSEEKDEEDGENAHPYRNSDPVIGHTEKVSL  
KASDSMDSLYSGQSSSGITSCSDGTSNRDSFRLDDGPGYPFCGRARVHTDFTSPSYD  
TDSLKIKKGDIIDIICKTPMGMTGMLNNKVGNFKFIYVDVISEEEAAPKKIKANRRSNS  
KKSKTLQEFLERIHLQEYTTSTLLNGYETLEDLKDIKESHLIELNIENPDDRRRLSAAE

NFLEEEIIQEENEPEPLSLSSDISLNKSQLDDCPRDSGCYISSGNSDNGKEDLESENLS  
DMVHKIIITEPSD

>sp|Q9Y2G9|SBN02\_HUMAN Protein strawberry notch homolog 2 OS=Homo sapiens GN=SBN02 PE=2  
SV=3

MLAVGPAMDRDYPQHEPPAGSLLYSPPPLQSAMLHCPYWNTFSLPPYPAFSSDSRPFMS  
SASFLGSQPCPDTSYAPVATASSLPKTCDFAQDSSYFEDFSNISIFSSSVDSLSDIVDT  
PDFLPADSLNQVSTIWDNPAPSTHDKLFQLSRPFAGFEDFLPSHSTPLLVSYQEQSVQS  
QPEEEDEAEAAAAEELGHTETYADYVPSKSKIGKQHPDRVETSTLSSVPPPDITYTLAL  
PSDSGALSALQLEAITIYACQQHEVLLPSGQRAGFLIGDGAGVGKGRTVAGVILENHLRGR  
KKALWFSVSNLKYDAERDLRDIEATGIAVHALSKIYGDTTTSEGVLFATYSALIGESQ  
AGGQHRTRLRQILDWCGEAFEGVIVFDECHKAKNAGSTKMGAVIDLQNKPLARVYAS  
ATGASEPRNMIYMSRLGIWGEPTFRNFEEFLHAIEKRGVGAMEIVAMD MKVSGMYIARQ  
LSFSGVTFRIEEEIPLAPAFECVYNRAALLWAEALNVFQQAADWIGLESRKSLWGQFWSAH  
QRFFKYLCTIAAKVRLVELAREELARDKCVVIGLQSTGEARTREVLGENDGHLNCFVSAA  
EGVFLSLIQKHFPSTKRKRDRGAGSKRKRPRGRGAKAPRLACETAGVIRISDDSTESD  
PGLDSDFNSSPESLVDDDVVIVDAVGLPSDDRGPLCLLQRDPHGPVLERVERLKQDLLD  
KVRRLGREL PVNTLDELIDQLGGPQ RVAEMTGRKGRVVS RPDGT VAFESRAEQGLSIDHV  
NLREKQRFMSGEKLVAII SEASSSGVSLQADRRVQNQRRRVHMTLELPWSADRAIQQFGR  
THRSNQVSAPEYVFLISELAGERRFASIVAKRLESLGALTHGDRRATESRDL SKYNFENK  
YGTRALHCVLTTILSQTENKVPVPQGYPGGVPTFFRDMKQGLLSVGIGGRESRNGCLDVE  
KDCSI TKFLNRLGLEVHKQNALFQYFSDTFDHLIEMDKREGKYDMGILD LAPGIEE IYE  
ESQQVFLAPGHPQDGQVVYKISVDRGLKWEDAFKSLALTGPYDGFYLSYKVRGNKPSC  
LLAEQNRGQFFT VYKPNIGRQS QLEALDSLRRKFHRVTAE EAKEPWESGYALSLTHCSHS  
AWN RHCR LAQEGKDC LQGLRLRHMYMLCGALLRVWGRIAAVMADVSSSSYLQIVRLKTKD  
RKKQVGIKIPEGCVRRVLQELRLMDADVRRQAPALGCPAPPAPRPLALPCGPGEVLDLT  
YSPPAEAFPPPHFSFPAPLSLDAGPGVVPLGTPDAQADPAALAHQGC DINFKEVLEDML  
RSLHAGPPSEGALGEGAGAGGAAGGGPERQSVIQFSPPFPGAQAPL

>sp|Q8IVN8|SBSP0\_HUMAN Somatomedin-B and thrombospondin type-1 domain-containing protein  
OS=Homo sapiens GN=SBSPON PE=1 SV=2

MRTLWMALCALSRLWPGAQAGCAEAGRCCPGRDPACFARGWRLDRVYGTCTCDQACRFTG  
DCCFDYDRACPARPCFVGEWSPWSGCADQCKPTTRVRRRSVQEPQNGGAPCPPLEERAG  
CLEYSTPQGDQCGHTYVPAFITTSFNFKERTRQATSPHWSTHTEDAGYCMFEKTESLTPH  
CALENWPLTRWMQYLREGYTVCVDCQPPAMNSVSLRCSGDGLSDGNQTLHWQAIGNPRC  
QGTWKKVRRVDQCSCPAVHSFIFI

>sp|P67812|SEC11A\_HUMAN Signal peptidase complex catalytic subunit SEC11A OS=Homo sapiens  
GN=SEC11A PE=1 SV=1

MLSDFLDDVRRMNKRQLYYQVLNFGMIVSSALMIWKGLMIVITGSESPIVVVLSGSMEPA  
FHRGDLFLTNRVEDPIRVGEIVVFRIEGREIPIVHRVLKIEHKQNGHIKFLTKGDNNAV  
DDRGLYKQGQHWLEKKDVVGRARGFVPYIGIVTILMNDYPKFYAVLFLGLFVLVHRE

>sp|Q9BY50|SEC11C\_HUMAN Signal peptidase complex catalytic subunit SEC11C OS=Homo sapiens  
GN=SEC11C PE=1 SV=3

MVRAGAVGAHL PASGLDIFGDLKKMNKRQLYYQVLNFMIVSSALMIWKGLIVLTGSESP  
IVVVLSGSMEPAFHRGDLFLTNFREDPIRAGEIVVFKVEGRDIPVHRVIKVHEKDNGD  
IKFLTKGDNNEVDDRGLYKEGQNWLEKKDVVGRARGFLPYVGMVTIIMNDYPKFYALLA

VMGAYVLLKRES

>sp|P13866|SC5A1\_HUMAN Sodium/glucose cotransporter 1 OS=Homo sapiens GN=SLC5A1 PE=1 SV=1

MDSSTWSPKTTAVTRPVETHELIRNAADISIIIVYFVVVMAVGLWAMFSTNRGTVGGFLL  
AGRSMVWWPIGASLFASNIGSGHFVGLAGTGAASGIAIGGFENALVLVVVLGWLFPVIY  
IKAGVVTMPEYLRKRFGGQRIQVYLSLLSLLYIFTKISADIFSGAIFINLALGLNLYLA  
IFLLLAITALYTTITGGLAAVIYDTLQTVIMLVGSLILTGFAFHEVGGYDAFMEKYMKA  
PTIVSDGNTTFQEKCYTPRADSFHIFRDPLTGDLPWPGFIFGMSILTLWYWCTDQVIVQR  
CLSAKNMSHVKGGCILCGYLKLMPMFIMVMPGMISRILYTEKIAACVVPSECEKYCGTKVG  
CTNIAYPTLVVELMPNGLRGLMMLASLMSSLTSIFNSASTLFTMDIYAKVRKRASEK  
ELMIAGRLFILVLIGISIAWPIVQSAQSGQLFDYIQSITSYLGPPIAAVFLAIFWKRV  
NEPGAFWGLILGLLIGISRMITEFAYGTGSCMEPSNCPTIICGVHYLYFAIILFAISFIT  
IVVISLLTKPIPDVHLYRLCWSLRNSKEERIDLDAEEENIQEGPKETIEIETQVPEKKKG  
IFRRAYDLFCGLEQHGAPKMTETEEKAMKMKMTDTSEKPLWRTVLNVNGIILVTVAVFCH  
AYFA

>sp|P31639|SC5A2\_HUMAN Sodium/glucose cotransporter 2 OS=Homo sapiens GN=SLC5A2 PE=1 SV=1

MEEHTEAGSAPEMGAQKALIDNPADILVIAAYFLLVIGVGLWSMCRNTRGTVGGYFLAGR  
SMVWWPVGASLFASNIGSGHFVGLAGTGAASGLAVAGFEWNAFLVLLLGLWLFAPVYLTA  
GVITMPQYLRKRFGGRRIRLYLSVLSFLYIFTKISVDMFSGAVFIQQALGWNIIYASVIA  
LLGITMIYTVTGGLAALMYTDTVQTFVILGGACILMGYAFHEVGGYSGLFDKYLGAATSL  
TVSEDPAVGNISSFCYRPRPDSYHLLRHPVTGDLPWPALLGLTIVSGWYWCSDQVIVQR  
CLAGKSLTHIKAGCILCGYLKLTMPFLMMPGMISRILYPDEVACVPEVCRRVCGTEVG  
CSNIAYPRLVVKLMPNGLRGLMLAVMLAALMSSLASIFNSSSTLFTMDIYTRLRPRAGDR  
ELLLVGRLWVVFIVVSVAWLPVVQAAQGGQLFDYIQAVSSYLAPPVSAVFLALFVPRV  
NEQGAFWGLIGLLMGLARLIPEFSFGSGSCVQPSACPAFLCGVHYLYFAIVLFFCSGLL  
TLTVSLCTAPIPRKHLHRLVFSLRHSKEEREDLDADEQQGSSLPVQNGCPESAMEMNEPQ  
APAPSLFRQCLLWFCGMSRGGVGSPPPLTQEEAAAAARRLEDISEDPSWARVVNLNALLM  
MAVAVFLWGFYA

>sp|Q92911|SC5A5\_HUMAN Sodium/iodide cotransporter OS=Homo sapiens GN=SLC5A5 PE=1 SV=1

MEAVETGERPTFGAWDYGVFALMLLVSTGIGLWVGLARGGQRSAEDFFTGGRRLAALPVG  
LSLSASFMSAVQVLGVPSEAYRYGLKFLWMCLGQLLNSVLTALLFMPVFYRLGLTSTYEY  
LEMFRSRAVRLCGTLQYIVATMLTYGTGIVYAPALILNQVTGLDIWASLLSTGIICTFYTA  
VGGMKAVVWTDVFQVVVMLSGFWVLARGVMLVGGPRQVLTAAQNHSRINLMDFNPDPRS  
RYTFWTFVVGGLVWLSMYGVNQAQVQRYVACRTEKQAKLALLINQVGLFLIVSSAACCG  
IVMFVIFYTDCDPLLLGRISAPDQYMPLLVLDIFEDLPGVPGLFLACAYSGTLSTASTSIN  
AMAAVTVEDLIKPRRLSLAPRKLVIISKGLSLIYGSACLTVAALSSLLGGGVQLQGSFTVM  
GVISGPLLGAFILGMFLPACNTPGVLAGLGAGLALSLWVALGATLYPPSEQTMRVLPSSA  
ARCVALSVNASGLLDPALLPANDSSRAPSSGMDASRPALADSFYAISYLYYGALGTLTTV  
LCGALISCLTGPTKRSTLAPGLLWDLARQTASVAPKEEVAILDDNLVKGPEELPTGNKK  
PPGFLPTNEDRLFFLGQKELEGAGSWTPCVGHDGGRDQQETNL

>sp|Q8N695|SC5A8\_HUMAN Sodium-coupled monocarboxylate transporter 1 OS=Homo sapiens  
GN=SLC5A8 PE=1 SV=2

MDTPRGIGTFVWWDYVVFAGMLVISAAIGIYYAFAGGGQQTSKDFLMGGRRMTAVPVALS  
LTASFMSAVTVLGTGPSEVYRFGAIFSIFAFTYFFVVVISAEVFLPVFYKLGITSTYEYLE  
LRFNKCVRLCGTVLFIQTILYTGIVYAPALALNQVTGFDLWGAIVATGVVCTFYCTLG

GLKAVIWTDFVQVGIMVAGFASVIIQAVVMQGGISTILNDAYDGGRLNFWNFPNPPLQRH  
TFWTIIIGGTFWTSTIYGVNQSQVQRYISCKSRFQAKLSLYINLVGLWAILTCSVFCGLA  
LYSRYHDCDPWTAKKVSAPDQLMPYLVLDILQDYPGLPGLFVACAYSGTLSTVSSSINAL  
AAVTVEDLIKPYFRSLSERSLSWISQGMSVVYGALCIGMAALASLMGALLQAALSVFGMV  
GGPLMGLFALGILVPFANSIGALVGLMAGFAISLWVGIGAQIYPPLPERTLPLHLDIQC  
NSTYNETNLMTTTEMPFTTSVFQIYNVQRTPLMDNWYSLSYLYFSTVGTLVTLVGLVS  
LSTGGRKQNLDPRIYLTKEFDLSNFDIFKKKKHVL SYKSHPVEDGGTDNPAFNHIELNSD  
QSGKSNCTRL

>sp|Q2M3M2|SC5A9\_HUMAN Sodium/glucose cotransporter 4 OS=Homo sapiens GN=SLC5A9 PE=1 SV=2

MSKELAAMGPGASGDGVRTETAPHIALDSRVGLHAYDISVVVIYFVFVIAVGIWSSIRAS  
RGTIGGYFLAGRSMWWPIGASLMSSNVGSLFIGLAGTGAAGGLAVGGFEWNATWLLLA  
LGWVFPVPIYAAGVVTMPQYLKKRFGGQRIQVYMSVLSLILYIFTKISTDIFSGALFIQM  
ALGWNLYLSTGILLVVTAVYTIAGGLMAVIYTDALQTVIMVGALVLMFLGFQDVGWYPG  
LEQRYRQAIPNVTVPNTTCHLPRPDAFHILRDPVSGDIPWPGLIFGLTVLATWCWCTDQV  
IVQRSLSAKSLSHAKGGSVLGGYLKILPMFFIVMPGMISRALFPDEVGCVPDVCQRICG  
ARVGCNSNIAYPKLVMALMPVGLRGLMIAVIMAALMSSLTSIFNSSSTLFTIDVWQFRRK  
STEQELMVVGRVFFVFLVVISILWIPIIQSSNSGQLFDYIQAVTSYLAPPITALFLLAIF  
CKRVTEPGAFWGLVFGLGVLLRMILEFSYPAPACGEVDRRPAVLKDFHYLYFAILLCGL  
TAIVIVIVSLCTTPIPEEQLTRLTWWTRNCPLSELEKEAHESTPEISERPAGECPAGGGA  
AENSSLGQEQPEAPSRSWGKLLWSWFCGLSGTPEQALSPA EKAALEQKLTSIEEEPLWRH  
VCNINAVLLLA INIFLWGYFA

>sp|Q9BXA9|SALL3\_HUMAN Sal-like protein 3 OS=Homo sapiens GN=SALL3 PE=1 SV=2

MSRRKQAKPQHLKSDSELLPPDGAPEHAAPGEAEDADSGPESRSGGEETSVCEKCCAEF  
FKWADFLEHQRSCTKLPPVLIVHEDAPAPPPEDFPEPSPASSPSERAEESEAAEEAGAEGA  
EGEARPVEKEAEPMDAEPAGDTRAPRPPPAAPAPPTPAYGAPSTNVTLEALLSTKVAQAQ  
FSQGARAAGSGAGGGVAAA VPLILEQLMALQQQIHLQLLIEQIRSQVALMQRPPPRP  
SLSPAAAPSAPGPAPSQPLGLAALPLSAGAPAAAIAGSGPAAPAAFEGAQPLSRPESGAS  
TPGGPAEPSAPAAPSAAPAPAAPAPAPQSAASSQPQSASTPPALAPGSLLGAAPGLPS  
PLLPQTSASGVIFPNPLVSI AATANALDPLSALMKHRKGKPPNVSVFEPKASAEDPFFKH  
KCRFCAKVFGSDSALQIHLRSHTGERPFCNICGNRFSTKGNLKVHFQRHKEYPHIQMN  
PYPVPEYLDNVPTCSGIPYGMSLPPEKPVTTWLD SKPVLPTVPTSVGLQLPPTVPGA HGY  
ADSPSATPASRSPQRSPASSECASLSPGLNHVESGVSATAESPQSLLGGPPLTKAEPVS  
LPCTNARAGDAPVGAQASAAPTSVDGAPTSLSGSPGLPAVSEQFKAQFPFGGLDSMQTSE  
TSKLQQLVENIDKKMTDPNCVICHVRLSCQSALKMHYRHTHTGERPFCCKICGRAFTTKG  
NLKTHFGVHRAKPLRVQHSCPICQKKFTNAVVLQQHIRMHMGGQIPNTPLPEGFQDAMD  
SELAYDDKNAETLSSYDDMDENSMEDDAELKDAATDPAKPLLSYAGSCPPSPSPSVISSI  
AALENQMKMIDSMSCQQLTGLKSVENGSGESDRLSNDSSAVGDLESRSAGSPALSESS  
SSQALSPAPSNGESFRSKSPGLGAPEEPQE IPLKTERPDSPAAAPGSGGAPGRAGIKEEA  
PFSLLFLSRERGKCPSTVCGVCGKPFACKSALEIHYRSHTKERPFVCALCRRGCSTMGNL  
KQHLLTHRLKELPSQLFDPNFALGPSQSTPSLISSAAPTMIKMEVNGHGKAMALGEGPPL  
PAGVQVPAGPQTVMGPG LAPMLAPPPRTPKQHNCQSCGKTFSSASALQIHERHTGEKP  
FGCTICGRAFTTKGNLKVHMGTHMWNNAPARRGRRLSVENPMALLGGDALKFSEMFQKDL  
AARAMNVDPSPFNQYAAAITNGLAMKNNEISVIQNGGIPQLPVSLGGSALPPLGSMASGM  
DKARTGSSPPIVSLDKASSETAASRPFTRFIEDNKEIGIN

>sp|Q9BYL1|SAM10\_HUMAN Sterile alpha motif domain-containing protein 10 OS=Homo sapiens  
GN=SAMD10 PE=2 SV=1

MFTELRSKLSPPRGRAGAVRAGFGERRDVAHAHFSFCRTLEHTVSAESIPCHLPRTPG  
TSLTWHSRSQRAASSRPIKLLQQPGTDTPQGRLYSDHYGLYHTSPSLGGLTRPVVLSQ  
QDVCKWLKKHCPHNYLVYVEAFSQHAITGRALLRLNAEKLQRMGLAQEAQRQEVLLQQVLR  
LQVREEGRSLQLLSQASFGKMS

>sp|Q8IZD0|SAM14\_HUMAN Sterile alpha motif domain-containing protein 14 OS=Homo sapiens  
GN=SAMD14 PE=2 SV=2

MASSKLREPVDEVFDLDLAVPETARLDSSLHKARAQLLAKGRRHRPSRSRLRDSASSAED  
GEGSDGPGGKVTDCGSPHLRLRSPLHSGPGSPAGGSFCLDPPGLRRSLDEDEPPPSPLT  
RYPRLHNAASHEGLAAASCSPPRSAPSSDSSPSFVRRHPRAEPHSEDDSRDASPPEPASP  
TIGLDKKTRRKFLDLGVTLRRASTGKSRKEKGSNRLSMGSRSEVEGSGRSGGSPFLPFSW  
FTDSGKGSASSGSTTSPTCSPKHEGFSPKKSASQESTLSDDSTPPSSSPKIPSGPWQEAQ  
CSYPYHTLSQSSDEFLDEPLPPVHHWTSQQVGQWLQSLNLEQYAAEFARQVDGPQLQL  
DGSKLKSLGLSNSHDRALVKRKLKEMAAAAEKERKAQEKAARQREKLRRREQEAKKS

>sp|Q9Y512|SAM50\_HUMAN Sorting and assembly machinery component 50 homolog OS=Homo sapiens  
GN=SAMM50 PE=1 SV=3

MGTVHARSLEPLSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVHFDGLGRTKD  
DIIICEIGDVFKAKNLIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPNGLDVTF  
EVTELRRLTGSYNTMVGNEGSMVLGLKLPNLLGRAEKVTFQFSYGTKETSYGLSFFKPR  
PGNFERNFSVNLKYVTGQFPWSSLRETDRGMSAEYSFPIWKSHTVKWEGVWRELGCLSR  
TASFAVRKESGHSLKSSLSHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDVSFIKEDF  
ELQLNKQLIFDSVFSASFWGGMVLPIGDKPSSIADRFYLGGPSIRGFSMHSIGPQSEGD  
YLGGEAYWAGGLHLYTPLFRPGQGGFGELFRTHFFLNAGNLCNLNYGEGPKAHIRKLAE  
CIRWSYGAGIVLRLGNIRLELNYCVMGVQGTGDRICDGVQFGAGIRFL

>sp|Q8N6K7|SAMD3\_HUMAN Sterile alpha motif domain-containing protein 3 OS=Homo sapiens  
GN=SAMD3 PE=1 SV=2

METWSVEQVCSWLVEKNLGEVHRFQEEVSGAALLALNDRMVQQLVKKIGHQAVLMDLI  
KKYKQNTQGLKSPENPKKAALVMQTEAARDYRDEESSSPARHGEQMPSFYPAENLDNGLI  
DQRVLKQRRNVKQILARSKALQWTKSYVLPEFPYDVKMLAEQKCPDHSMRIRIIEFLQA  
DMTKYLEGSLYPSTQQYNDVNVNALLQAHPLDEDEGCGFFLWKRALKDRFKYVRRPIEDDE  
QVIRNKCKFGHRRGQTRKSLADIRFDEIKLVQIKKEAVCFDSELDEHIKWFQEQEYVKTEK  
DWREIDKRMSQTLEIRRKMIGSRTPLKDILKLPFLKCPYQMFREFQLLTRTDIYKKTRH  
ILESYSENILTSFSVVDNPNIVLQEKMKHYTDEDMLKYMKTATCLLLPDVFGDDPSLF  
VIMNEQVQVSTPVLEVKNPFPNMEVCEFSLYLERERLTKVDDCVTALAALVAAFHVFRIEC  
PRRLSQTFNFLETILFDMHSPYFPSLKEKENEVGFQHPLT

>sp|Q5SSQ6|SAPC1\_HUMAN Suppressor APC domain-containing protein 1 OS=Homo sapiens  
GN=SAPCD1 PE=2 SV=2

MGSQSGGVPLVQAPYTVLLLPLGTSRQDPGAQSFFLWLRMQALEREQDALWQGLELLQ  
HGQAWFEDHLREAQRQQLHLGALGENFLTDLHSEPGRPPLAQIQKVNICLQNLIEHEKELS  
RQQKGVTQPKEEMAQRGCTKGPRGPTRV

>sp|Q86UD0|SAPC2\_HUMAN Suppressor APC domain-containing protein 2 OS=Homo sapiens  
GN=SAPCD2 PE=1 SV=2

MAGAAMAERGRVPPAPAPSTEGLPRAFLQSLRTLFDILDDRRRGCVHLREIESRWQGTD

ARELPRGVLEGLRQVAPASGYLTFERFVAGLRTSLLSADGGPRDPTRAPARPGDQPPPPP  
QRLVFAPADEPRTVLERKPLPLGVRAPLAGPSAAARSPEQLCAPAEAAPCPAEPERSQSA  
ALEPSSSADAGAVACRALEADSGDARRAPRARGERRRHTIASGVDCGLLKQMKLEQEKE  
VLLQGLEMARGRDWYQQQLQRVQERQRLGQSRASADFGAAGSPRPLGRLLPKVQEVAR  
CLGELLAAACASRALPPSSSGPPCPALTSTSPVWQQQTILMLKEQNRLLTQEVTEKSER  
ITQLEQEKSALIKQLFEARALSQQDGGPLDSTFI

>sp|Q658L1|SAX02\_HUMAN Stabilizer of axonemal microtubules 2 OS=Homo sapiens GN=SAX02  
PE=2 SV=1

MGAKSMRSWCLCQICSCGSDYCPYEIVKQPRHVPPEYKPKQGKIDLGTTYKRDLNSYKVQ  
PVAIVRPLERQVKKGKLDTPVPTYKDDYRAWDLHKSELYKPEQTYHPPTVKFGNSTTFQDD  
FVPQEIKPRQSFKPSSVVKRSTAPFNGITSHRLDYIPHQLELKFERPKEVYKPTDQRFED  
LTTHRCDFQGLIGETAKLCRPVHTRVTQNALFEGSTEFRESFQPWEIPPEVKKVPEYVP  
PTGSMLLNSTSHLDYVPYQANHVVPIRPVSQKRSNNFPFQGKSIMKEDFPAWESCRQLI  
KKQQQIPNPSGKFDGLSTFRSHYVPHELIPTESCKPLNIAFKSSVPFDDVTMYSVEYTPK  
RQEICPASYPSPGYIFDNTNSQGHKFFRKIIIPAVKAF

>sp|P23975|SC6A2\_HUMAN Sodium-dependent noradrenaline transporter OS=Homo sapiens  
GN=SLC6A2 PE=1 SV=1

MLLARMNPQVQPENNGADTGPEQPLRARKTAELLVVKERNVQCLLAPRDGDAQPRETWG  
KKIDFLLSVVGFVAVDLANVWRFPYLCYKNGGGAFLIPYTLFLIIAGMPLFYMELALGQYN  
REGAATVWKICPFFKGVGYAVILIALYVGFYYNVIIAWSLYYLFSSFTLNLPWTDGHTW  
NSPNCTDPKLLNGSVLGNHTKYSKYKFTPAAEFYERGVHLHESGSIHDIQLPQWQLLLC  
LMVVVIVLYFSLWKGVKTSKGVVWITATLPYFVLFVLLVHGVTLPGASNGINAYLHIDFY  
RLKEATVWIDAATQIFFSLGAGFGVLIAFASYNKFDNNCYRDALLTSSINCITSFVSGFA  
IFSILGYMAHEHKVNIEDVATEGAGLVFILYPEAISTLSGSTFWAVVFFVMLLALGLDSS  
MGGMEAVITGLADDFQVLKRHRKLFTFGVTFSTLLALFCITKGGIYVLTLLDTFAAGTS  
ILFAVLMEAIGVSWFYGVDRFSNDIQQMMGFRPGLYWRLCWKFVSPAFLLFVVVVSIIINF  
KPLTYDDYIFPPWANWVGWGIALLSSMVLVPIYVIYKFLSTQGSWERLAYGITPENEHHL  
VAQRDIRQFQLQHWLAI

>sp|Q9Y345|SC6A5\_HUMAN Sodium- and chloride-dependent glycine transporter 2 OS=Homo  
sapiens GN=SLC6A5 PE=1 SV=3

MDCSAPKEMNKLANSPEAAAAQHDPGCPARTSPEQELPAAAAPPPPRVPRSASTGAQ  
TFQSADARACEAERPGVGSCKLSSPRAQAASAALRDLREAQGAQASPPPGSSGPGNALHC  
KIPFLRGPEGDANVSVGKGTLEARNTPVVGWVNMSQSTVVLATDGITSVLPGSVATVATQ  
EDEQGDENKARGNWSSKLDFILSMVGAYVGLGNVWRFPYLAFQNGGGAFLIPYLMMLALA  
GLPIFFLEVSLGQFASQGPVSVWKAIPALQGCIGIAMLIIISVLIAIYYNVIIICYTLFYLF  
SFVSVLPWGSCNNPWNTPCECKDKTKLLDSCVISDHPKIQIKNSTFCMTAYPNVTMVNFT  
SQANKTFVSGSEEFYKVFVKISAGIEYPGEIRWPLALCLFLAWVIVYASLAKGIKTSKG  
VVYFTATFPYVVLVILLIRGVTLPAGAGIWIYFITPKWEKLTDATVWKDAATQIFFSLSA  
AWGGLITLSSYNKFHNCCYRDTLIVTCTNSATSIFAGFVIFSVIGFMANERKVNIENVAD  
QGPGLIAFVVYPEALTRLPLSPFWAIIFFLMLLTLGLDTMFATITETIVTSISDEFKYLRT  
HKPVFTLGCCICFFIMGFPMITQGGIYMFQLVDTYAASYALVIIAIFELVGISYVYGLQR  
FCEDIEMMIGFQPNIFWKVCWAFVTPTILTFILCFSFYQWEPMTYGSYRYPNWSMVLGWL  
MLACSVIWIPIIMFVIKMHAPGRFIERLKLVCSPQPDWGPFLAQHGRERYKNMIDPLGTS  
SLGLKLPVKDLELGTQC



>sp|Q6ZMJ2|SCAR5\_HUMAN Scavenger receptor class A member 5 OS=Homo sapiens GN=SCARA5 PE=2 SV=1

MENKAMYLHTVSDCDTSSICEDSFDGRSLSKLNLCEDGPCHKRRASICCTQLGSLSALKH  
AVLGLYLLVFLILVGIFILAVSRPSSPDDLKALTRNVNRLNESFRDLQLRLLQAPLQAD  
LTEQVWKVQDALQNQSDSLLALAGAVQRLEGALWGLQAQAVQTEQAVALLRDRTGQQSDT  
AQLELYQLQVESNSSQLLLRRHAGLLDGLARRVGILGEELADVGGVLRGLNHSLSYDVAL  
HRTRLQDLRLVLSNASEDTRRLRLAHVGMELQLKQELAMLNAVTEDLRLKDWEHSIALRN  
ISLAKGPPGPKGDQDEGKEGRPGIPGLPGLRGLPGERGTPGLPGPKGDDGKLGATGPMG  
MRGFKGDRGPKGEKGEKGDRAAGSVEAPMMIRLVNGSGPHEGRVEVYHRRWGTVCDD  
GWDKKDGDVVCRLMGLFRGVEEVYRTARFGQGTGRIWMDDVACKGTEETIFRCSFSKWGVT  
NCGHAEDASVTCNRH

>sp|Q86SK9|SCD5\_HUMAN Stearoyl-CoA desaturase 5 OS=Homo sapiens GN=SCD5 PE=1 SV=2

MPGPATDAGKIPFCDAKEEIRAGLESSEGGGPERPGARGQRQNIWVRNVVLSLLHLGA  
VYSLVLIPKAKPLTLLWAYFCFLAALGVTAGAHRLWSHRSYRAKLPLRIFLAVANSMAF  
QNDIFEWSRDHRAHHKYSETDADPHNARRGFFFSHIGWLFVRKHRDVEIEGRKLDVTDLL  
ADPVVRIQRKYYKISVVLNCFVVPVLVPWYIWGESLWNSYFLASILRYTISLNIWLVNS  
AAHMYGNRPYDKHISPRQNPLVALGAIGEGFHNHHTFPFDYSASEFGLNFNPTTWFDIF  
MCWLGLATDRKRATKPMIEARKARTGDSSA

>sp|Q6KCM7|SCMC2\_HUMAN Calcium-binding mitochondrial carrier protein SCaMC-2 OS=Homo sapiens GN=SLC25A25 PE=1 SV=1

MLCLCLYVPVIGEAEQTEFQYFESKGLPAELKSIFKLSVFIPSQEFSTYRQWKQKIVQAGD  
KDLDGQLDFEEFVHYLQDHEKKLRLVFKSLDKNDGRIDAQEIIMQSLRDLGVKISEQQAE  
KILKSMKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTPDEFTVEE  
RQTGMWWRHLVAGGGAGAVSRTCTAPLDRKVLQMVAHASRSNNMGIVGGFTQMIREGGAR  
SLWRNGNINVKIAPESAIKFMAYEQIKRLVGSDQETLRIHERLVAGSLAGATAQSSIYP  
MEVLKTRMALRKTTGQYSGMLDCARRILAREGVAAFYKGYVPNMLGIIPYAGIDLAVYETL  
KNAWLQHYAVNSADPGVFVLLACGTMSSTCGQLASYPLALVRTRMQAQASIEGAPEVTMS  
SLFKHILRTEGAFGLYRGLAPNFMKVIPAVSISYVVYENLKITLGVQSR

>sp|Q9UN30|SCML1\_HUMAN Sex comb on midleg-like protein 1 OS=Homo sapiens GN=SCML1 PE=1 SV=2

MMSNSSEIDVIKTRIPTYDEDDNTILYAYETKPEFVNKEPNIVSDASCNTEEQKTVDD  
VLIIHCQVIYDALQNLDKKIDVIRRKVSKIQRFHARSLWTHNKRYGKKHSYRLVKKLKLQ  
KMKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEYQRAELEEDPILSRTPS  
PVHPSDFSEHNCQPYASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAAPPSVTRSPV  
ENDGYIEEGSITKHPSTWSVEAVVFLFKQTDPLALCPLVDLFRSHEIDGKALLLLTSDVL  
LKHLGVKLGTAVKLCYYIDRLKQGKCFEN

>sp|P57086|SCND1\_HUMAN SCAN domain-containing protein 1 OS=Homo sapiens GN=SCAND1 PE=1 SV=1

MAATEPILAAATGSPAAPPEKLEGAGSSSAPERNCVGSSSLPEASPPAPEPSSPNAAVPEA  
IPTPRAAASAALEPLGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFQFRYQDAA  
GPREAFRQLRELSRQWLRPDIRTKEQIVEMLVQEQLLAILPEAARARRIRRRTDVRITG

>sp|P51168|SCNNB\_HUMAN Amiloride-sensitive sodium channel subunit beta OS=Homo sapiens GN=SCNN1B PE=1 SV=2

MHVKKYLLKGLHRLQKGPQYTYKELLVWYCDNTNTHGPKRIICEGPKKKAMWFLLTLLFA

ALVCWQWGIFIRTYLSWEVSVSLVSGFKTMDFAVTICNASPFKYSKIKHLLKDDELME  
AVLERILAPELSHANATRNLFNIWNHTPLVLIDERNPHHPMVLDFGDHNGLTSSSAS  
EKICNAHGCKMAMRLCSLNRTQCTFRNFTSATQALTEWYILQATNIFAQVPQQELVEMSY  
PGEQMILACLFGAEPNYRNFTSIFYPHYGNCYIFNWGMTEKALPSANPGTEFGLKLILD  
IGQEDYVPFLASTAGVRLMLHEQRSYPFIRDEGIYAMSGTETSIGVLVDKLQRMGEPYSP  
CTVNGSEVPVQNFYSDYNTTYSIQACLRSCFQDHMIRNCNCGHYLYPLPRGEKYCNNRDF  
PDWAHCYSDLQMSVAQRETCIGMCKESCNDTQYKMTISMADWPSEASEDWIFHVLSQERD  
QSTNITLSRKGIKLNIFYQEFNYRTIEESAANNIVWLLSNLGGQFGFWMGGSVLCLIEF  
GEI IIDFVWITIIKLVALAKSLRQRAQASYAGPPPTVAELVEAHTNFGFQPDAPRSPN  
TGPYPSEQALPIPGTPPPNYDSLRLQPLDVIESDSEDAI

>sp|P51170|SCNNG\_HUMAN Amiloride-sensitive sodium channel subunit gamma OS=Homo sapiens  
GN=SCNN1G PE=1 SV=4

MAPGEKIKAKIKKNLPVTGPQAPTIKELMRWYCLNTNTHGCRRIVVSRGRLRRLRWIGFT  
LTAVALILWQCALLVFSFYTVSVSIKVHFRKLDFAVTICNINPYKYSTVRHLLADLEQE  
TREALKSLYGFPESRKRREAESWNSVSEKQPRFSHRIPLIFDQDEKKGARDDFTGRKR  
KVGGSIIHKASNMHIESKQVVGFLCSNDTSDCATYTFSSGINAIQEWYKLHYMNIMAQ  
VPLEKKINMSYSAEELLVTCFFDGVSCDARNFTLFHHPMHGNCYTFNNRENETILSTSMG  
GSEYGLQVILYINEEYNPFLVSTGAKV IHRQDEYPFVEDVGTEIETAMVTSIGMHLT  
ESFKLSEPYSQCTEDGSDVPIRNIYNAAYSLQICLHSCFQTKMVEKCGCAQYSQPLPPAA  
NYCNYQQHPNWMYCYQLHRAVFQEEELGCQSVCKEACSFKEWTLTSLAQWPSVVSEKWL  
LPVLTDWQGRQVKNKLNKTDLAKLLIFYKDLNQRSIMESPANSIEMLLSNFGGQLGLWMS  
CSVVCVIEIIEVFFIDFFSIIARRQWQKAKEWWAWKQAPPCPEAPRSPQGDNPALDIDD  
DLPTFNSALHLPALGTQVPGTPPPKYNTLRLERAFSNQLTDTQMLDEL

>sp|Q9BYC2|SCOT2\_HUMAN Succinyl-CoA:3-ketoacid coenzyme A transferase 2, mitochondrial  
OS=Homo sapiens GN=OXCT2 PE=2 SV=2

MAALRLLASVLGRGVPAGGSGLALSQGCARCFATSPRLRAKFYADPVEMVKDISDGATVM  
IGGFGLCGIPENLIAALLRTRVKDLQVSSNVGVEDFGLGLLLAARQVRRIVCSYVGENT  
LCESQYLAGELELELTPQGTLAERIRAGGAGVPAFYTPPTYGYTLVQEGGAPIRYTPDGHL  
ALMSQPREVREFNGDHFLLEAIRADFALVKGWKADRAGNVVFRSARNFNVPCKAADV  
TAVEVEEIVEGAFPPEDIHVPNIYVDRVIKQKYEKRIERLTILKEEDGDAGKEEDART  
RIIRRAALEFEDGMYANLGIGIPLLASNFISPSMTVHLHSENGILGLGPFPTEDVDADL  
INAGKQTVTVLPGGCFFASDDSFAMIRGGHIQLTMLGAMQVSKYGDLANWMIPGKKVKGM  
GGAMDLVSSQKTRVVVTMQHCTKDNTPKIMEKCTMPLTGKRCVDRIITEKAVFDVHRKKE  
LTLRELWEGLTVDDIKKSTGCAFAVSPNLRPMQQVAP

>sp|076038|SEGN\_HUMAN Secretagogin OS=Homo sapiens GN=SCGN PE=2 SV=2

MDSSREPTLGRDLAAGFWQVWQRFDADEKGYIEEKELDAFFLHMLMKLGTDDTVMKANLH  
KVKQQFMTTQDASKDGRIMKELAGMFLSEDENFLLLFRRENPLDSSVEFMQIWRKYDAD  
SSGFISAAELRNFLRDLFLHHKKAISEAKLEETGTMMKIFDRNKDGRDLNLDLARILAL  
QENFLLQFKMDACSTEERKRDFEKIFAYYDVSKTGALEGPEVDGFKDMMLVQPSISGV  
DLDKFREILLRHCDVNKGKIQKSELALCLGLKINP

>sp|Q96EE3|SEH1\_HUMAN Nucleoporin SEH1 OS=Homo sapiens GN=SEH1L PE=1 SV=3

MFVARSIADHKDLIHDVSFDFHGRRMATCSSDQSVKVDKSESGDWHCTASWKTHSGSV  
WRVTWAHPEFGQVLASCSFDRTAAVWEEIVGESNDKLRGQSHWVKRTTLVDSRTSVTDVK  
FAPKHMGLMLATCSADGIVRIYEAPDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSP

MIAVGSDDSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDPVHDIAPNLGRSFHILAI  
ATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFDNHNSQVWRVSWNITGTVLASSGDDG  
CVRLWKANYMDNWKCTGILKGNPVGSSQQGTSNPSLSTIPSLQNSLNGSSAGRKHS  
>sp|Q9BQE4|SELS\_HUMAN Selenoprotein S OS=Homo sapiens GN=VIMP PE=1 SV=3  
MERQEESLSARPALETEGLRFLHTTVGSLLATYGWYIVFSCILLYVVFQKLSARLRALRQ  
RQLDRAAAAVEPDVVVKRQEALAAARLKMQEELNAQVEKHKEKQLEEEKRRQKIEPWD  
SMQEGKSYKGNKKPQEEDSPGPSTSSVLKRKSDRKPLRGGGYNPLSGEGGGACSWRPGR  
RGPSSGGUG

>sp|Q13214|SEM3B\_HUMAN Semaphorin-3B OS=Homo sapiens GN=SEMA3B PE=2 SV=1  
MGRAGAAAVIPGLALLWAVGLGSAAPSPRLRLSFQELQAWHGLQTFSLERTCCYQALLV  
DEERGRFLVGAENHVASLNLNISKRAKLAWPAPVEWREECNWAGKDIGTECMNFVKLL  
HAYNRTHLLACGTGAFHPTCAFVEVGHRAEEPVLRLDPGRIEDGKGKSPYDPRHRAASVL  
VGEELYSOVAADLMGRDFTIFRSLGQRPSLRTEPHDSRWLNEPKFVKVFWIPESNPDDD  
KIYFFFRETAVEAAPALGRLSVSRVGQICRNDVGGQRLVKNWTTFLKARLVCSVPVVEG  
DTHFDQLQDVFLSSRDHRTPLLYAVFSTSSSIFQGSACVYSMNDVRRFLGPFHKEG  
PMHQWVSQGRVPYPRPGMCPSTFGTFSSTKDFPDDVIQFARNHPLMYNSVLPTGGRPL  
FLQVGANYTFTQIAADRVAADGHYDVLFIGTDVGTVLKVISVPKGSRPSAEGLLLEELH  
VFEDSAAVTSMQISSKRHQLYASRSVAQIALHRCAAHGRVCTECLARDPYCAWDGVA  
CTRQPSAKRRFRRQDVRNGDPSTLCSDSSRPALLEHKVFGVEGSSAFLECEPRSLQAR  
VEWTFQQRAGVTAHTQVLAERTERTARGLLRLRRRDSGVYLCAAVEQGFTQPLRRLSL  
HVLSTQAERLARAEEAAPAAPPGKLYRDFLQLVEPGGGGSANSLRMCPRQPALQSLP  
LESRRKGRNRRTHAPEPRAERGPRSAHW

>sp|Q99985|SEM3C\_HUMAN Semaphorin-3C OS=Homo sapiens GN=SEMA3C PE=2 SV=2  
MAFRITCVLVGVFICSICVKGSSQPQARVYLTDELRETKTSEYFSLSHHPLDYRILLMD  
EDQDRIYVGSKDHLISLNNISQEALSVPASTIKVEECKMAGKDPTHGCGNFVRVIQ  
TFNRTHLYVCGSAGFSPVCTYLNRRGSRSEDQVFMIDSKCESGKGRCSFNPNVNTVSVMIN  
EELFSGMYIDFMGTDAIFRSLTKRNAVTDQHNSKWLSEPMFVDAHVIPDGTDPNDKAV  
YFFFKEKLTNNRSTKQIHSMIARICPNDTGGLRSLVKNWTTFLKARLVCSVTDEDGPET  
HFDELEDVFLLETDPRTTLVYGIFTSSSVFKGSACVYHLSDIQTVFNGPFHKEGPN  
HQLISYQGRIPYPRPGTCPPGAFTPNMRTTKEFPDDVVTFIRNHPLMYNSIYPHKKRPLI  
VRIGTDYKYTKIAVDRVNAADGRYHVLFLGTDGRGTQKVVLPTNNSVSGELILEELEV  
KNHAPITTMKISSKKQLYVSSNEGVSVSLHRCHIYGTACADCLARDPYCAWDGHSCS  
RFYPTGKRRSRRQDVRHGNPLTQCRGFNLKAYRNAAEIVQYGVKNNTTFLECAPKSPQAS  
IKWLLQKDKDRRKEVKLNERIIATSQGLLIRSVQGSQGLYHCIAATENSFKQTIKINFK  
VLDSEMVAVVTDKSPWTWASSVRALPFPKDIMGAFSHSEMMINQYCKDTRQQHQQGD  
ESQKMRGDYGLKALINSRKSRRNRNQLPES

>sp|O15041|SEM3E\_HUMAN Semaphorin-3E OS=Homo sapiens GN=SEMA3E PE=1 SV=1  
MASAGHIITLLWGYLLELWTGGHTADTTHPRLRLSHKELLNLNRTSIFHSPFGFLDLHT  
MLLDEYQERLFGGRDLVYSLSLERISDGYKEIHWSTALKMEECIMKGKDAGECANYVR  
VLHHYNRTHLLTCGTGAFDPVCAFIRVGYHLEDPLFHLESPPSERGRGRCPDPSSSFIS  
TLIGSELFAGLYSDYWSRDAAIFRSMGRLAHRTEHDDERLLKEPKFVGSYMIIPDNEDRD  
DNKVYFFFTEKALEAENNAHAIYTRVGRLCVNDVGGQRILVKNWSTFLKARLVCSVPGMN  
GIDTYFDELEDVFLPTRDHKNPVIFGLFNTTSNIFRGHAICVYHMSSIRAAFNGPYAHK  
EGPEYHWSVYEGKVPYPRPGSCASKVNGGRYGTTKDYPDDAIRFARSHPLMYQAIPAHK

KPILVKTDGKYNLKQIAVDRVEAEDGQYDVLFIGTDNGIVLKVITIYNQEMESMEEVILE  
ELQIFKDPVPIISMEISSKRQQLYIGSASAVAQVRFHHCDMYGSACADCCLARDPYCAWD  
GISCSRYPTGTHAKRRFRQQDVRHGNAQQCFGQQFVGDALDKTEHLAYGIENNSTLL  
ECTPRSLQAKVIWFVQKGRETRKEEVKTDDRNVKMDLGLLFLRLHKS DAGTYFCQTVEHS  
FVHTVRKITLEVVEEEKVEDMFNKDDEEDRHHRMPCPAQSSISQGAKPWYKEFLQLIGYS  
NFQRVEEYCEKVWCTDRKRKKLKMSPSKWKYANPQEKLRSKPEHYRLPRHTLDS

>sp|Q13275|SEM3F\_HUMAN Semaphorin-3F OS=Homo sapiens GN=SEMA3F PE=2 SV=2

MLVAGLLLWASLLTGAWPSFPTQDHLPATPRVRLSFKELKATGTAHFFNLLNTTDYRIL  
LKDEDHDMYVGS KDYVLSLDLHDINREPLIHWAASPQRIEECVLSGKDVNGECGNFVR  
LIQPWNRTHLYVCGTGAYNPMCTYVNRGRRAQATPWTQTQAVRGRGSRATDGALRPMPTA  
PRQDYIFYLEPERLESGKGKCPYDPKLDTASALINEELYAGVYIDFMGTDAAI FRTL GKQ  
TAMRTDQYNSRWLNDPSFIHAELIPDSAERNDDKLYFFFRERSAEAPQSPAVYARIGRIC  
LNDDGGHCCLVNKWS TFLKARLVCSVPGEDGIETHFDELQDV FVQQTQDVRNPVIYAVFT  
SSGSVFRGS AVCVYSMADIRMVFNPGFAHKEGPNYQWMPFSGKMPYPRPGTCGGTFTPS  
MKSTKDYPDEVINFMRSHPLMYQAVYPLQRRPLVVRTGAPYRLTTIAVDQVDAADGRYEV  
LFLGTDRTVQKVI VLPKDDQEEELMLEEVEVFKDPAPVKTMTISSKRQQLYVASAVGV  
THLSLHRCQAYGAACADCCLARDPYCAWDGQACSRYTASSKRRSRRQDVRHGNP IRQCRG  
FNSNANKNAVESVQYGVAGSAFLECQPRSPQATVKWLFQRDPGDRRREIRAEDRFLRTE  
QGLLLRALQLSDRGLYSCTATENNFKHV VTRVQLHVLGRDAVHAALFPPLSMSAPPPGA  
GPPTPPYQELAQLLAQPEVGLIHQYCQGYWRHVPPSPREAPGAPRSPEPQDQKKPRNRRH  
HPPDT

>sp|Q92854|SEM4D\_HUMAN Semaphorin-4D OS=Homo sapiens GN=SEMA4D PE=1 SV=1

MRMCTPIRGLLMALAVMFGTAMAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKD  
TLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSA  
TSLYVCGTNAFQACDHLNLTSFKFLGKNEDGKGRCPFDP AHSYTSVMVDGELYSGT SYN  
FLGSEPIISRNSSHSPLRTEYAIPWLNESFVFADVIRKSPDSPDGEDDRVYFFFTEVSV  
EYEFVFRVLIPRIARVCKGDQGLR TLQKKWTSFLKARLICSRPDSGLVFNVL RDVFVLR  
SPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVFSHGKYMQSTTVEQSHTKWVRYNG  
PVPKPRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPRLIKKDVNY  
TQIVVDRTQALDGTVDVMFVSTDRGALHKAISLEHAVHII EETQLFQDFEPVQTLLSS  
KKGNRFVYAGSNSGVVQAPLAFCGKHGTCEDCVLARDPYCAWSPPTATCVALHQTESPSR  
GLIQEMSGDASVCPDKSKGSYRQHFFFKHGGTAE LKCSQKSNLARVFWKFQNGVLKAESPK  
YGLMGRKNLLIFNLSEGDSGVYQCLSEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTLSV  
VQTEGSRIATKVLVASTQGSSPPTPAVQATSSGAITLPPKPAPTGTSCPEKIVINTVPQL  
HSEKTMYLKSSDNRLMSLFLFFVFLCLFFYNKYGYLPRQCLKFRSALLIGKKPKS  
DFCDREQSLKETLVEPGSFSQQNGEHPK PALDTGYETEQDTITSKVPTDREDSQRIDDLS  
ARDKPFVDKCELKFADSDADGD

>sp|Q9H3T2|SEM6C\_HUMAN Semaphorin-6C OS=Homo sapiens GN=SEMA6C PE=2 SV=4

MPRAPHFMLLLLLLLLLSLPHTQAAPQDPLPLLISDLQGTSPLSWFRGLEDDAVAAELG  
LDFQRFLTNRLLVAARDHVFSFDLQAE EGEGLVPNKYLTWRSQDVENCAVRGKLTDE  
CYN YIRVLVPWDSQTLLACGTNSFSPVCRSYGITS LQQEGEELSGQARCPFDATQSNVAI  
FAEGSLYSATAADFQASDAVVYRSLGPQPPLRS AKYDSKWLREPHFVQALEHGDHVYFFF  
REVSVEDARLGRVQFSRVARVCKRDMGGSPRALDRHWT SFLKRLNCSVPGDSTFYFDVL  
QALTGPVNLHGRSALFGVFTTQTNSIPGSAVCAFYLDEIERGFEGKFKEQRS LDGAWTPV

SEDRVSPRPGSCAGVGGAALFSSSRDLRDDVLTFIKAHPLLDPAVPPVTHQPLLTLTSR  
ALLTQVAVDGMAGPHSNITVMFLGSNDGTVLKVLTPGGRSGGPEPILLEEIDAYSPARCS  
GKRTAQTARRIIGLELDTGEHRLFVAFSGCIVYLPLSRCARHGACQRSCLASQDPYCGWH  
SSRGCVDIRSGGTDVDQAGNQESMEHGDCQDQATGSQSGPGDSAYGVRRDLPPASASRS  
VPIPLLLASVAAAFALGASVSGLLVSCACRAHRRRGKDIETPGLPRPLSLRSLARLHGG  
GPEPPPPSKDGDVQTPQLYTTFLPPPEGVPPPELACLPTPESTPELPVKHLRAAGDPWE  
WNQNRNNAKEGPRSRGHAAGGPAPRVLRPPPPGCPGQAVEVTTLEELLRYLHGPQPP  
RKGAEPAPLTSRALPPEPAPALLGGPSRPHECASPLRLDVPPEGRCASAPARPALSAP  
APRLGVGGRRRLPFSGHRAPPALLTRVPSGGPSRYSGGPGKHLLYLGRPEGYRGRALKRV  
DVEKPQLSLKPPLVGPSSRQAVPNGGRFNF

>sp|Q96LD8|SEN8\_HUMAN Sentrin-specific protease 8 OS=Homo sapiens GN=SEN8 PE=1 SV=1  
MDPVVLSYMSLLRQSDVSLDDPPSWLNDHIIIGFAFEYFANSQFHDCSDHVSFISPEVTQ  
FIKCTSNPAEIAMFLEPLDLPNKRVLFLAINDNSNQAAGGTHWSLLVYLQDKNSFFHYDS  
HSRSNSVHAKQVAEKLEAFLGRKGDKLAFVEEKAPAQQNSYDCGMYVICNTEALCQNNFR  
QQTESLLQLLTPAYITKKRGEWKDLITTLAKK

>sp|Q9P0V9|SEP10\_HUMAN Septin-10 OS=Homo sapiens GN=SEPT10 PE=1 SV=2  
MASSEVARHLLFQSHMATKTTCMSSQGSDDQIKRENIRSLTMSGHVGFEPLDQLVNRS  
IQQGFCFNILCVGETGIGKSTLIDTLFNTNFEDYESSHFCPNVKLKAQTYELQESNVQLK  
LTIVNTVGFGDQINKEESYQPIVDYIDAQFEAYLQEELKIKRSLFTYHDSRIHVCLYFIS  
PTGHSLKTLDLLTMKNLDSKVNIIPVIAKADTVSKTELQKFKIKLMSSELVSNVQIYQFP  
TDDDTIAKVNAAMNGQLPFAVVGSMDEVKVGNMVKARQYPWGVVQVENENHCDVFKLRE  
MLICTNMEDLREQTHTRHYELYRRCKLEEMGFTDVGPNKPVSVQETYEAKRHEFHGERQ  
RKEEEMKQMFVQRVKEKEAILKEAERELQAKFEHLKRLHQEERMKLEEKRRLLLEEIIAF  
SKKKATSEIFHSQSFLATGSNLRKDKDRKNSNFL

>sp|O60613|SEP15\_HUMAN 15 kDa selenoprotein OS=Homo sapiens GN=SEP15 PE=1 SV=3  
MAAGPSGCLVPAFGLRLLLATVLQAVSAFGAEFSSEACRELGFSSNLLCSCDLLGQFNL  
LQLDPDCRGCCQEEAQFETKKLYAGAILEVCGUKLGRFPQVQAFVRSDKPKLFRGLQIKY  
VRGSDPVLKLLDDNGNIAEELSILKWNTDSVEEFLSEKLRI

>sp|Q15019|SEPT2\_HUMAN Septin-2 OS=Homo sapiens GN=SEPT2 PE=1 SV=1  
MSKQQPTQFINPETPGYVGFANLPNQVHRKSVKKGFEFTLMVVGESGLGKSTLINSFLT  
DLYPERVIPGAAEKIERTVQIEASTVEIEERGVLRLTVVDTPGYGDAINCRDCFKTIIIS  
YIDEQFERYLHDESLNRRHIIDNRVHCCFYFISPFHGLKPLDVAFMKAITHNKVNIVPV  
IAKADTLTKERERLKKRILDEIEHNIKIYHLPDAESDEDEDFKEQTRLLKASIPFSVV  
GSNQLIEAKGKKVRGRLYPWGVVEVENPEHNDFLKLRTMLITHMQDLQEVTDQLHYENFR  
SERLKRGRKVENEDMNKDQILLEKEAELRRMQEMIARMQAQMOMQMGGDGDGGALGHH  
V

>sp|Q14141|SEPT6\_HUMAN Septin-6 OS=Homo sapiens GN=SEPT6 PE=1 SV=4  
MAATDIARQVGEGRTVPLAGHVGFDLPDQLVNKSVSQGFCFNILCVGETGLGKSTLMD  
TLFNTKFEGEPATHTQPGVQLQSNTYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVE  
FIDAQFEAYLQEELKIRRVLHTYHDSRIHVCLYFIAPTGHSLKSLDLVTMKNLDSKVNI  
PIIAKADAISKSELTKFKIKITSELVSNVQIYQFPTDDESVAEINGTMNAHLPFAVIGS  
TEELKIGNKMMRARQYPWGTQVQVENEHCDVFKLREMLIRVNMEDLREQTHTRHYELYR  
CKLEEMGFKDTPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEA  
EKELHEKFDRLKKLHQDEKKKLEDKKKSLDDEVNAFKQRKTAELLQSQGSQAGGSQTLK

RDKEKKNNPWLCTE

>sp|P84101|SERF2\_HUMAN Small EDRK-rich factor 2 OS=Homo sapiens GN=SERF2 PE=1 SV=1

MTRGNQRELARQKNMKKQSDSVKGRDDGLSAAARKQRDSEIMQQKQKKANEKKEEPPK

>sp|Q9Y6X0|SETBP\_HUMAN SET-binding protein OS=Homo sapiens GN=SETBP1 PE=1 SV=3

MESRETLSSSRQGGESDFLPVSSAKPPAAPGCAGEPLLSTPGPGKIPVGGGERMEPEEE  
DELGSGRDVDSNSNADSEKWWAGDGLLEEQEFSIKEANFTEGSLKLLKIQTTRAKKPPKNL  
ENYICPPEIKITIKQSGDQKVSRAKNSKATKEEERSHKKLLTASDLAASDLKGFQPP  
AYERPQKHSTLHYDTGLPQDFTGDTLKPKHQKSSSQNHMDWSTNSDSGPVTQNCFISPE  
SGRETASTSKIPALEPVASFAKAQGGKSAGNTWSQLSNNKDLLLGGVAPSPSSHSSPA  
PPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQTI PNPDLDWVKNQAK  
AFDNTGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIPKAPSLDPTNHKRKK  
RQSIKAVVEKIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVPKLSKMIENESPSVGL  
ETGGNAEKVIPGGVSKPRKPPMVMTPPTCTDHSPSRKLPEIQHPKFAAKRRWTCSPKPS  
TMLREAVMATSDKLMLEPPSAYPITPSSPLYTNTDSLTVITPVKKRGRPKKQPLLTVET  
IHEGTSTSPVSPISREFPGTKKRKRRNLAKLAQLVPGEDKPMSEMKFHKVKGKLVLDK  
KTIKTINKMKTLLKRNILNQILSCSSVALKAKAPPETSPGAAAIESKLKGQINVS KRGT  
IYIGKKRGRKPRAELPPPSEEPKTAIKHPRPVSSQPDVPAVPSNFQSLVASSPAAMHPLS  
TQLGGSNGNLSPASTETNFSELKTMPLNQPI SALPTKTQKGIHSGTWKLSPPRLMANSPS  
HLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTSDQAEKSSESRRRYSFDFCSLD  
NPEAIPSDTSTKNRHGRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFLADLEEL  
ITKFQVFRISHRSYTFYHENPYPISFRINFDHYYVPYIYQDPLLYLRRTSDLKSKKRG  
RPAKTNDTMTKVPFLQGFSTYIPSGSYAPYGPYTSMPMMNLGYGQYPAPLYLSHTLG  
AASPFRPTVPPPQFHTNSHVKMSGAAKHKAKHGVHLQGPVSMGLGDMQPSLNPPKVGSA  
SLSSGRHLKRRKHKHKHKEDRILGTHDNL SGLFAGKATGFSSHILSERLSSADKELPLV  
SEKNKHKEKQKHQSEAGHKASKNNFEVDLTSLSLSDAQHWTQAKEKGDLSSEPVDST  
KRYSGSGDGGSTRSENLDVFSEMNPSNDKWSDVSGSKRRSYEGFGTYREKDIQAFKMN  
RKERSYDSSMSPGMPSPHLKVDQTAVHSKNEGSVPTMMTRKKPAAVDSVTIPPAPVLSL  
LAASAATSDAVGSSLKRFKRREIEAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQ  
RQSKTGNNFVKRRGRPRKQPTQFDEDSRDQMPVLEKCIDLPSKRGQKPSLSPLVLEPAA  
SQDTIMATIEAVIHMAREAPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRKHKPQAP  
AQPPQQSPPQQPLPQEEEVKAKRQRKSRGSESEVLP

>sp|Q92552|RT27\_HUMAN 28S ribosomal protein S27, mitochondrial OS=Homo sapiens GN=MRPS27  
PE=1 SV=3

MAASIVRRGMLLARQVVLPLQLSPAGKRYLLSSAYVDSHKWEAREKEHYCLADLASLMDKT  
FERKL PVSSLTISRLLDNISREEIDHA EYLYKFRHSPNCWYLRNWTIHTWIRQCLKYD  
AQDKALYTLVNKVQYGFIPDNFTFNLLMDSFIKKENYKDALS VVFEVMMQEA FEPSTQL  
LSLYVL FHLAKKTD FSWEERNFGASLLL PGLKQKNSVGFSSQLYGYALLGKVELQQGL  
RAVYHNMP LIWKPGYLDRALQVMEKVAASPEDIKLCREALDVLGAVLKALTSADGASEEQ  
SQNDEDNQSEKLVEQLDIEETE QSKLPQYLERFKALH SKLQALGKIESEGLLSLTTLV  
KEKLTCEAEDIATYEQNLQQWHLDLVQLIQREQQQREQAQ QEYQAQKAAKASA

>sp|Q92665|RT31\_HUMAN 28S ribosomal protein S31, mitochondrial OS=Homo sapiens GN=MRPS31  
PE=1 SV=3

MFPRVSTFLPLRPLSRHPLSSGSPETSAAAIMLLTVRHGTVRYRSSALLARTKNNIQRYP  
GTNSVICSKKDKQSVRTEETSKETSESQDSEKENTKKDLLGIKGMKVELSTVNVRTTKP

PKRRPLKSLEATLGRLLRATEYAPKKRIEPLSPELVAAASAVADSLPFDKQTTKSELLSQ  
LQQHEEESRAQRDAKRPKISFSNIIISDMKVARSATARVRSRPRLRIQFDEGYDNYPGQEK  
TDDLKKRKNIFTGKRLNIFDMMAVTKEAPETDTSPSLWDVEFAKQLATVNEQPLQNGFEE  
LIQWTKEGKLWEFPINNEAGFDDGSEFHEHIFLEKHLESFPKQGPIRHFMELVTCGLSK  
NPYLSVKQKVEHIEWFRNYFNEKKDILKESNIQFN

>sp|Q9BSG5|RTBDN\_HUMAN Retbindin OS=Homo sapiens GN=RTBDN PE=1 SV=2  
MDCRVHMRPIGLTWVLQLTLAWILLEACGGSRLQARSQQHHGLAADLGKGLHLAGPCC  
PSEMDTTETSGPGNHPERCGVPSPECESFLEHLQRALRSRFRLLGVRQAQPLCEELCQ  
AWFANCEDDITCGPTWLPLSEKRGCPEPCLTYGQTFADGTDLCRSALGHALPVAAPGARH  
CFNISISAVPRPRPGRRGREAPSRRSRSPRTSILDAAGSGSGSGSGSGP

>sp|Q9BST9|RTKN\_HUMAN Rhotekin OS=Homo sapiens GN=RTKN PE=1 SV=2  
MFSRNRHSRVTVARGSALEMEFKRGRFRLSLFSDLPEDTELQRKLDHEIRMREGACKLLA  
ACSQREQALEATKSLVCNSRILSYMGEQRRKEAQVLGKTSRRPSDSGPPAERSPCRGR  
VCISDLRIPLMWKDEYFKNKGDLHRWAVFLLQLGEHIQDTEMILVDRTLTDISFQSNV  
LFAEAGPDFELRELYGACVEEEGALTGGPKRLATKLSSSLGRSSGRRVRASLDSAGGSG  
SSPILLPTPVVGGPRYHLLAHTTLTAAVQDGFRTDHLTLASHEENPAWLPLYGSVCCRL  
AAQPLCMTQPTASGTLRVQQAQEMQNWAVHGVKGTNLFCYRQPEDADTGEEPLLTIAV  
NKETRVRAGELDQALGRPFTLSISNQYGDDEVTHTLQTESREALQSWMEALWQLFFDMSQ  
WKQCCDEIMKIETPAPRKPPQALAKQGSLYHEMAIEPLDDIAAVTDILTQREGARLETPP  
PWLAMFTDQPALPNPCSPASVAPAPDWTPLPWGRPRTFSLDAVPPDHSPRARSVAPLPP  
QRSRPRTRGLCSKGQPRTLQSPV

>sp|Q16799|RTN1\_HUMAN Reticulon-1 OS=Homo sapiens GN=RTN1 PE=1 SV=1  
MAAGDPQDELLPLAGPGSQWLHRGEGENEAVTPKGATPAPQAGEPSPGLGARAREAAS  
REAGSGPARQSPVAMETASTGVAGVSSAMDHTFSTTSKDGEQSCYTSLSIDICYPPQEDS  
TYFTGILQKENGHVTISESPEELGTPGPSLPDVPGIESRGLFSSDSGIEMTPAESTEVNK  
ILADPLDQMAEAYKYIDITRPEEVKHQEQHHPELEDKDLDFKNKDTDISIKPEGVREPD  
KPAPVEGKI IKDHILLEESTFAPYIDDLSEEQRRAPQITTPVKITLIEIEPSVETTTQEK  
PEKQDICKLPSPDVTPTVTVSEPEDDSPGSITPPSSGTEPSAAESQKGSISEDELITAI  
KEAKGLSYETAENPRPVGQLADRPEVKARSGPPTIPSPLDHEASSAESGDSEIELVSEDP  
MAAEDALPSGYVSFGHVGGPPSPASPSIQYSILREEREAELDSELIIESCDASSASEES  
PKREQDSPMKPSALDAIREETGVRAERAPSRRGLAEPGSFLDYPSTEPQGPPELPPGD  
GALEPETPMLPRKPEEDSSSNQSPAATKGPGLGPGAPPLFLNKQKAIDLLYWRDIKQ  
TGIVFGSFLLLLFSLTQFSVSVVAYLALAALSATISFRIYKSVLQAVQKTDEGHPFKAY  
LELEITLSQEIQKYTDCLQFYVNSTLKELRRLFLVQDLVDSLKFAVLMWLLTYVGALFN  
GLTLLLMVAVSMFTLPVVVYVKKHQAQIDQYLGVRTHINAVVAKIQAKIPGAKRHAE

>sp|Q9BZR6|RTN4R\_HUMAN Reticulon-4 receptor OS=Homo sapiens GN=RTN4R PE=1 SV=1  
MKRASAGGSRLLAWLWLQAWQVAAPCPGACVCYNEPKVTTSCPQQGLQAVPVGIPAASQ  
RIFLHGNRISHVPAASFACRNLTLWLHSNVLARIDAAFTGLALLEQLDLSDNAQLRS  
VDPATFHGLGRLHTLHLDRCLQELGPGFLFRGLAALQYLVLQDNALQALPDDTFRDLGNL  
THLFLHGNRISSVPERAFRGLHSLDRLLHQNRVAHVHPPHAFRDLGRMLTYLFANNLSA  
LPTEALAPLALQYLRLNDNPWVCDRCRARPLWAWLQKFRGSSSEVPCSLPQRLAGRDLKR  
LAANDLQGCATGYPYHPIWTGRATDEEPLGLPKCCQPDAAADKASVLEPGRPASAGNALK  
GRVPPGDSPPNGSGPRHINDSPFGTLPGSAEPPLTAVRPEGSEPPGFPTSGPRRRPGCS  
RKNRTRSHCRLGQAGSGGGGTGDSESGALPSLTCSLTPLGLALVLWTVLGPC

>sp|Q9NQC3|RTN4\_HUMAN Reticulon-4 OS=Homo sapiens GN=RTN4 PE=1 SV=2

MEDLDQSPLVSSSDSPRPQPAFKYQFVREPEDEEEEEEEEEDEDEDELEELEVLERKPA  
AGLSAAPVPTAPAAGAPLMDFGNDFVPPAPRGPLPAAPPVAPERQPSWDPSVSTVPAP  
SPLSAAAVSPSKLPEDDEPPARPPPPPPASVSPQAEPVWTPAPAPAAPPSTPAAPKRRG  
SSGSVDETLFALPAASEPVIRSSAENMDLKEQPGNTISAGQEDFPSVLLETAASLPSLSP  
LSAASFKEHEYLGNLSTVLPTTEGLQENVSEASKEVSEKAKTLLIDRDLTEFSELEYSEM  
GSSFVSVPKAESAVIVANPREEIIVKNKDEEEKLVSNILHNQQELPTALTKLVKEDEVV  
SSEKAKDSFNEKRVAVEAPMREEYADFKPFERVWEVKDSKEDSDMLAAGGKIESNLESKV  
DKKCFADSLEQTNHEKDSSESSNDTSFPSTPEGIKDRSGAYITCAPFNPAATESIATNIF  
PLLGDPTSENKTDEKKIEEKKAIIVTEKNTSTKTSNPFLVAAQDSETDYVTTDNLTKVTE  
EVVANMPEGLTPDLVQEACESELNEVTGKIAIYETKMDLVQTSEVMQESLYPAAQLCPSF  
EESEATPSPVLPDIVMEAPLNSAVPSAGASVIQSSSPLEASSVNYESIKHEPENPPPYE  
EAMSVSLKKVSGIKEEIKEPENINAALQETEAPYISACDLIKETKLSAEPAPDFSDYSE  
MAKVEQPVPDHSELVEDSSPDSEPVDLFSDDSIPDVPQKQDETVMVLKESLTETSFESMI  
EYENKEKLSALPPEGKPYLESFKLSLNDTKDTLLPDEVSTLSKKEKIPLQMEELSTAVY  
SNDDLFI SKEAQIRETETFS DSSPIE I IDEFPTLISSKTSFSKLAREYTDLEVSHKSEI  
ANAPDGAGSLPCTELPHDLSLKNIQPKVEEKISFSDDFSKNGSATSKVLLLPPDV SALAT  
QAEIESIVKPKVLVKEAEKKLPSDTEKEDRSPSAIFSAELSKTSVVDLLYWRDIKKTGVV  
FGASLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYKGVIAIQKSDEGHPFRAYLESE  
VAISEELVQKYSNSALGHVNCTIKELRRLFLVDDLVDLSLFAVLMWVFTYVGALFNGLTL  
LILALISLFSVPVIYERHQAQIDHYLGLANKNVKDAMAKIQAQIPGLKRKAE

>sp|Q5QGT7|RTP2\_HUMAN Receptor-transporting protein 2 OS=Homo sapiens GN=RTP2 PE=1 SV=1

MCTSLTTCSEWKVFYEKMEVAKPADSWELIIDPNLKPSELAPGWKQYLEQHASGRFHCSW  
CWHTWQSAHVVILFHMFLDRAQRAGSVRMRVFKQLCYECGTARLDESSMLEENIEGLVDN  
LITSLREQCYEEDGGQYRIHVASRPDSGPHRAEFCEACQEGIVHWKPSEKLL EEEVTTYT  
SEASKPRAQAGSGYNFLSLRWCLFWASLCLLVVYLQFSFLSPAFF

>sp|Q14D33|RTP5\_HUMAN Receptor-transporting protein 5 OS=Homo sapiens GN=RTP5 PE=1 SV=2

MDRAGADMWASTFTLAMAERKPQDVWVLLPEHSLVPGCLDGGGVQYLLVGLSRLQCGHCP  
GTWDSAHVHVL FHLWWDRAHRGLVKMRIWGQRCRLCPAPGDCQVRPPGEQPFLSRLVLH  
ILQDCYGDGPGPARHPREAYEGCCEACELGVCFLQKAPDPAWSANATKGNFPATAWGGTG  
TVSRGKPLSTPGDDLKGKGVVIAIPFSLVGTSDNDQVPIAEGPAPPAGASLPVTGSCEALV  
IGQGSIFLSGDSVAMPGGKGFVAIGDPLFHGPGLLGSSIQTFELKGFLFKGRGSLCSPV  
GVAQGWGPISLNNGLVPVGKHTPTVFYCVGLSASGEGSLTFPSSLTSIFTNTLSEPTDGP  
VATKEASITFPFIIFTVDKDAVEAEVAGNGKEGGGQGLVPVGHDA LPETNAGGLPSQVKGS  
LALPFPADVQGKDAFTDITEGKEKEGGLVTAGHDAPLEANAEGPITVSEGCITIPFAVFD  
VIKRKGGGHVAYGPQNGCFSQGYQKRQLRSRFHKARCGCRREEDERPGRACRRPHAEP  
YEDFWI WVSMTVCVFWLMCMCRLNPGIYPQQV

>sp|Q59EK9|RUN3A\_HUMAN RUN domain-containing protein 3A OS=Homo sapiens GN=RUNDC3A PE=1 SV=2

MEASFVQTTMALGLSSKKASSRNVAVERNLITVCRFSVKTLLEKYTAEPIDDSSEEFVN  
FAAILEQILSHRFKACAPAGPVSWFSSDGQRGFWDYIRLACSKVPNNCVSSIENMENIST  
ARAKGRAWIRVALMEKRMSEYITALTDRTRTRRFYDSGAIMLRDEATILTGMLIGLSAI  
DFSFCLKGEVLDGKTPVVIDYTPYLKFTQSYDYLTDEEERHSAESSTSEDNSPEHPYLP  
VTDEDSWYSKWHKMEQKFRIVYAQKGYLEELVRLRESQLKDLEAENRRLLQLLEEEAAQN



QREKRELEGVILELQEQLTGLIPSDHAPLAQGSKELTTPLVNQWPSLGTLNGAEGASNSK  
LYRRHSFMSTEPLSAEASLSSDSQRLGEGTRDEEPWGPIGKDPTPSMLGLCGSLASIPSC  
KSLASFKSNECLVSDSPEGSPALSPS

>sp|P57060|RWD2B\_HUMAN RWD domain-containing protein 2B OS=Homo sapiens GN=RWDD2B PE=1 SV=1

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEMEQAEQAELDLLASMFPGENELIVND  
QLAVAEKDCIEKKTMEGRSSKVYFTINMNLDSDEKMAMFSLACILPFKYPAVLPEITV  
RSVLLSRSQQTQLNTDLTAFLQKHCHGDVCILNATEWVREHASGYVSRDTSSSPTTGSTV  
QSVDLIFTRLWIYSHHIYNCKRKNILEWAKELSLSGFSMPGKPGVVCVEGPQSACEEFW  
SRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEKVFVSVNGARGNHMDFGQLYQF  
LNTKGCGDVFMFFGVEGQ

>sp|Q9Y3V2|RWDD3\_HUMAN RWD domain-containing protein 3 OS=Homo sapiens GN=RWDD3 PE=1 SV=4

MAEPVQEELSVLAAIFCRPHEWEVLSRSETDGTVFRIHTKAEGFMDVDIPLELVFHLPVN  
YPSCLPGISINSEQLTRAQCVTVKENLLEQAESLLSEPMVHELVLWIIQQNLRHILSQPET  
GSGSEKCTFSTSTTMDGLWITLLHLDHMRATKYVKIVEKWASDLRLTGRLMFMGKIIL  
ILLQGDRNNLKEYLILQKTSKVDVDSSGKKCKEKMISVLFETKVQTEHKRFLAFEVKEYS  
ALDELQKEFETAGLKKLFSEFVLALVK

>sp|Q8WXD0|RXFP2\_HUMAN Relaxin receptor 2 OS=Homo sapiens GN=RXFP2 PE=1 SV=1

MIVFLVFKHLFSLRLITMFFLLHFIVLINVKDFALTQGSMTIPSCQKGYFPCGNLTCKLP  
RAFHCDDGKDDCGNGADEENCGDTSGWATIFGTVHGANSVALTQECFLKQYPQCCCKET  
ELECNGDLKSVPMISNNVTLLSLKKNKIHSLPDKVFIKYTKLKKIFLQHNCIRHISRKA  
FFGLCNLQILYLNHNCITTLRPGIFKDLHQLTWLILDDNPITRISQRLFTGLNSLFFLSM  
VNNYLEALPKQMCAMPQLNWVDLEGNRIKYLTNSTFLSCDSLTVLFLPRNQIGFVPEKT  
FSSLKNLGELDLSSNTITELSPHLFKDLKLLQKLNLSNPLMYLHKNQFESLKQLQSLDL  
ERIEIPNINTRMFQPMKNLSHIYFKNFRYCSYAPHVRCMPLTDGISSFEDLLANNILRI  
FVWVIAFITCFGNLFVIGMRSFIKAENTTHAMSIKILCCADCLMGVYLFFVGIFDIKYRG  
QYQKYALLWMESVQCRLMGFLAMLSTEVSVLLLTLYLTLEKFLVIVFPFSNIRPGKRQTSV  
ILICIWMAGFLIAVIPFWNKDYFGNFYGNKGVCFPLYDQTEDIGSKGYSLGIFLGVNLL  
AFLIIVFSYITMFCSIQKTALQTTEVRNCFGREVAVANRFFIVFSDAICWIPVFVVKIL  
SLFRVEIPDTMTSWIVIFFLPVNSALNPILYTLTTNFFKDKLKQLLHKHQKRSIFKIKKK  
SLSTSIVWIEDSSSLKLGVLNKITLGDSIMKPVS

>sp|P60903|S10AA\_HUMAN Protein S100-A10 OS=Homo sapiens GN=S100A10 PE=1 SV=2

MPSQMEHAMETMMFTFHKFAGDKGYLTKEDLRVLMKEFPGFLENQKDPLAVDKIMKDLD  
QCRDGKVGFGSFFSLIAGLTIACNDYFVVHMKQKGKK

>sp|Q9HCY8|S10AE\_HUMAN Protein S100-A14 OS=Homo sapiens GN=S100A14 PE=1 SV=1

MGQCRSANAEDAQEFSDVERAIETLIKNFHQYSVEGGKETLTPSELRLVTQQPLHLMPS  
NCGLEEKIANLGSCNDSKLEFRSFWELIGEAAKSVKLERPVRGH

>sp|Q8N1F8|S11IP\_HUMAN Serine/threonine-protein kinase 11-interacting protein OS=Homo sapiens GN=STK11IP PE=1 SV=3

MFGSAPQRPVAMTTAQRDSLLWKLAGLLRESGDVVLSGCSTLSLLTPTLQQLNHVFELHL  
GPWGPQTGFVALPSHPADSPVILQLQFLFDVLQKTLCLKLVHVAGPGPTGPIKIFPFKS  
LRHLELRGVPLHCHGLRGIYSQLETLICSRSLQALEELLSACGGDFCSALPWLALLSAN  
FSYNALTALDSSRLLSALRFLNLSHNQVQDCQGFLMDLCELHHLDISYNRLHLVPRMGP  
SGAALGVLILRGNELRSLHGLEQLRNLRHLDLAYNLLLEGHRELSPLWLLAELRKLYLEGN

PLWFHPEHRAATAQVLSRPRDAATGFLLDGKVLSTDFQTHTSLGLSPMGPPLPWPVGS  
TPETSGGPDLSDSLSSGGVVTQPLLHKVKSRRVRRASISEPSDTPPEPRTLNPSPAGWF  
VQQHPELELMSSFRERFRGNWLQYRSHLEPSGNPLPATPTTSAPSAPPASSQGPDATPRP  
SPPQEEARGPQESPQKMSEEVRAEPQEEEEKEGKEEKEEGEMVEQGEAEAEAEAEAEQD  
QKEVEAELCRPLLVCPLGPEGVRGRECFRLRVTSAPHLFEVELQAARTLERLELQSLEAAE  
IEPEAAQQRSPRPTGSDLLPGAPILSLRFSYICPDRQLRRYLVLPEDAHAHVQELLAVLT  
PVTNVAREQLGEARDLLGRFQCLRCGHEFKPEEPRMGLDSEEGWRPLFQKTESPAVCPN  
CGSDHVLLAVSRGTPNRERKQGEQSLAPSPASPVCHPPGHGDHLDRKNPQAPSTR  
DHGWSLSPPPERCGLRSVDHRLRLFLDVEVFSDAQEEFQCCLKVPVALAGHTGEFMCLV  
VVSDRRLYLLKVTGEMREPPASWLQLTAVPLQDLSGIELGLAGQSLRLEWAAGAGRCVL  
LPRDARHCRAFLEELLDVLQSLPPAWRNCVSATEEEVTPQHRLWPLLEKDSSEARQFFY  
LRAFLVEGPSTCLVSLLLTPSTLFLLEDAAAGSPAEPSPPAASGEASEKVPPSGPGPAVR  
VREQQPLSSLSSVLLYRSAPEDLRLLFYDEVSRLESFWALRVVCQEQLTALLAWIREPWE  
ELFSIGLRTVIQEALALDR

>sp|Q9UHW9|S12A6\_HUMAN Solute carrier family 12 member 6 OS=Homo sapiens GN=SLC12A6 PE=1  
SV=2

MHPPETTTKMASVRFMVTPTKIDDIPGLSDTSPDLSSRSSRVRFSSRESVPETSRSEPM  
SEMSGATTSLATVALDPPSDRTSHPQDVIEDLSQNSITGEHSQLDDGHKKARNAYLNNS  
NYEEGDEYFDKNLALFEEEMDTRPKVSSLLNRMANYTNLTQGAKEHEEAENITEGKKKPT  
KTPQMGTFMGVYLPCLQNIQFVILFLRLTWVVGTAQVLQAFIVLICCCCTMLTAISMSA  
IATNGVVPAGGSYFMISRALGPEFGGAVGLCFYLGTTFAAAMYILGAIEIFLVYIVPRAA  
IFHSDALKESAAMLNNMRVYGTAFLVLMVLVFFIGVRYVNFASLFLACVIVSILAIYA  
GAIKSSFAPPHFPVCM LGNRTLSSRHIDVCSKTKEINNMTVP SKLWGFFCNSSQFFNATC  
DEYFVHNNVTSIQIGIPGLASGIITENLWSNYLPKGEIEKPSAKSSDVLGSLNHEYVLVD  
ITTSFTLLVGIFPFSVTGIMAGSNRSGDLKDAQKSIPIGTILAILTTSFVYLSNVVLFGA  
CIEGVVLRDKFGDAVKGNLVVGTLSWSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAIK  
DNIIPFLRVFGHSKANGEPTWALLLTAAIAELGILIASLDLVAPILSMFFLMCYL FVNLA  
CALQTLLRTPNWRPRFRYYHWALSFMGMSICLALMFISSWYYAIVAMVIAGMIYKIEYQ  
GAKEWGDGIRGLSLSAARFALLRLEEGPPHTKNWRPQLLVLLKLEDDLHV KHPRLLTFA  
SQLKAGKGLTIVGSVIVGNFLENYGEALAAEQTIKHLMEAEKVKGFCQLVVAAKLREGIS  
HLIQSCGLGGMKHNTVVMGWPNWRQSEDARAWKTFIGTVRVTTAAHLALLVAKNISFFP  
SNVEQFSEGNIDVWVIVHDGGM LMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDL  
ATFLYHLRIEAEVEVEMHDSIDISAYTYERTLMMEQRSQMLRHMRLSKTERDREAQLVKD  
RNSMLRLT SIGSDEDEETETYQEKVHMTWTKDKYMASRGQKAKSMEGFQDLLNMRPDQSN  
VRRMHTAVKLNEIVNKSHEAKLVLLNMPGPPRNPEGDENYMEFLEVLTEGLERVLLVRG  
GGSEVITIYS

>sp|Q9BZW2|S13A1\_HUMAN Solute carrier family 13 member 1 OS=Homo sapiens GN=SLC13A1 PE=1  
SV=1

MKFFSYILVYRRFLFVVFVTLVLLPLPIVLHTKEAECAYTLFVVATFWLTEALPLSVTAL  
LP LSLMLPMFGIMPSKKVASAYFKDFHLLIGVICLATSIEKWNLHKRIALKMVMVGVNP  
AWLTLGFMSSSTAFLSMWLSNTSTAAMVMPIAEAVVQQIINAEAEVEATQMTYFNGSTNHG  
LEIDESVNGHEINERKEKTKPVPGYNNDTGKISSKVELEKNSGMRTKYRTKKGHVTRKLT  
CLCIAYSSTIGGLTTITGTSTNLIFA EYFNTRYPCRCCLNFGSWFTFSFPAALI ILLLSW  
IWLQWLFLGFNFKEMFKCGKTKTVQKACA EVIKQEYQKLGP IRYQEIVTLVLF IIMALL

WFSRDPGFVPGWSALFSEYPGFATDSTVALLIGLLFFLIPAKTLTKTPTGEIVAFDYSP  
LITWKEFQSFMPWDIAILVGGGFALADGCEESGLSKWIGNKLSPLGSLPAWLIILISLM  
VTSLTEVASNPATITLFLPILSPLAEAIHVNPYLILIPSTLCTSFALLPVANPPNAIVF  
SYGHLKVIDMVKAGLVNIVGVAVVMLGICTWIVPMFDLYTYPSTWAPAMSNETMP

>sp|B5MCN3|S14L6\_HUMAN Putative SEC14-like protein 6 OS=Homo sapiens GN=SEC14L6 PE=5 SV=1

MSGQVGDLSPSQEKSIAQFRENIQDVLSALPNPDDYFLLRWLQARSFDLQKSEDMLRKHM  
EFRKQQDLANILAWQPPEVVRLYNANGICGHDGEGSPVWYHIVGSLDPKGLLSASKQEL  
LRDSFRSCCELLRECELQSQKLGRVEKIIAIFGLEGLGLRDLWKPGIELLQEFFSALEA  
NYPEILKSLIVVRAPKLFAVAFNLVKSYSMEETRRKVVILGDNWKQELTKFISPDQLPVE  
FGGTMTPDGNPKCLTKINYGGEVPKSYLCKQVRLQYEHTRSVGRGSSLQVENEILFPG  
CVLRWQFASDGGDIGFGVFLTKMGERQRAREMTEVLPSQRYNAHMPEDGILTCLQAGS  
YVLRFYNTYSLVHSKRISYTVLEVLLPDQTFMEKMEKF

>sp|Q16348|S15A2\_HUMAN Solute carrier family 15 member 2 OS=Homo sapiens GN=SLC15A2 PE=2  
SV=2

MNPFQKNESKETLFSPVSIIEVPPRPPSPPKPSPTICGSNYPLSIAFIVVNEFCERFSY  
YGMKAVLILYFLYFLHWNEDTSTSIYHAFSSLCYFTPILGAAIADSWLGKFKTIIYLSLV  
YVLGHVIKSLGALPILGGQVHVTVLSLIGLSLIALGTGGIKPCVAAFAGGDQFEKHAEER  
TRYFSVFYLSINAGSLISTFITPMLRGDVQCFGEDCYALAFGVPGLLMVIALVVFAMGSK  
IYNKPPPEGNIVAQVFKCIWFAISNRFKNRSGDIPKRQHWLDWAAEKYPKQLIMDVKALT  
RVFLFYIPLPMFWALLDQQGSRWTLQAIRMNRNLGFFVLQPDQMQLNPLLVLIFIPLFD  
FVIYRLVSKCGINFSSLRKMAVGMLACLAFAVAAAVEIKINEMAPAQPGPQEVFLQVLN  
LADDEVKVTTVGNENNSLLIESIKSFQKTPHYSLHLKTKSQDFHFLKYHNLSLYTEHS  
VQEKWYSLVIREGNSISSMMVKDTESTRTNGMTTVRFVNTLHKDVNISLSTDSLNVG  
EDYGVSAYRTVQRGEYPAVHCRTEDKNFSLNLGLLDFGAAYLFVITNNTNQGLQAWKIED  
IPANKMSIAWQLPQYALVTAGEVMFSVTGLEFSYSQAPSSMKSVLQAAWLLTIAGVNIIV  
LVVAQFSGLVQWAEFILFSCLLLVICLIFSIMGYYYVPVKTEDMRGPADKHIPHIQGNMI  
KLETKKTKL

>sp|Q8IY34|S15A3\_HUMAN Solute carrier family 15 member 3 OS=Homo sapiens GN=SLC15A3 PE=2  
SV=2

MPAPRAREQPRVPGERQPLLPRGARGPRRWRRAAGAAVLLVEMLERAAFFGVTANLVLYL  
NSTNFWNTGEQATRAALVFLGASYLLAPVGGWLADVYLGRYRAVALSLLLYLAASGLLPA  
TAFPDGRSSFCGEMPASPLGPACPSAGCPRSSPSYCAPVLYAGLLLGLAASSVRSNLT  
SFGADQVMDLGRDATRRFFNWFYWSINLGAVLSLLVVAFIQQNISFLLGYSIPVGCVGLA  
FFIFL FATPVFITKPPMGSQVSSMLKALQNCPPQLWQRHSARDRQCARVLADERSPPQG  
ASPQEDIANFQVLVKILPVMVTLVPYWMVYFQMSTYVLQGLHLHIPNIFPANPANISVA  
LRAQGSSYTIPEAWLLLANVVVVLILVPLKDRLIDPLLRCKLLPSALQKMALGMFFGFT  
SVIVAGVLEMERLHYIHHNETVSQQIGEVLYNAAPLSIWWQIPQYLLIGISEIFASIPGL  
EFAYSEAPRSMQGAIMGIFCLSGVGSLLGSSLVALLSLPGGWLHCPKDFGNINNCRMDL  
YFFLLAGIQAVTALLFVWIAGRYERASQGPASHSRFSRDRG

>sp|A6NIM6|S15A5\_HUMAN Solute carrier family 15 member 5 OS=Homo sapiens GN=SLC15A5 PE=3  
SV=2

MSVTGFTITDEKVHLYHSIEKEKTVRHIGDLCSHSHSVKKIQVGICLLLVELCERFTFFEV  
VCNMIPFCTIKLGYHNCQAAILNLCFIGTSLTPVFVRWLTVDVYLGRNKLVIYICLFLHFL  
GTALLSVVAFPLEDFYLGTYHAVNNIPKTEQHRLFYVALLTICLGIGGVRAIVCPLGAFG

LQEYGSQKTMFFNWFWLMLNATIVFLGISYIQHSQAWALVLLIPFMSMLMAVITLHM  
IYYNLIYQSEKRCSLTGVGVLSALKTCHPQYCHLGRDVTSQLDHAKEKNGGCYSELHV  
EDTTFFLTLLPLFIFQLLYRMCIMQIPSGYYLQTMNSNLNDGFLLP IAVMNAISSPLL  
ILAPFLEYFSTCLFPSKRVGSFLSTCIIAGNLF AALSVM IAGFFE IHRKHFP AVEQPLSG  
KVLTVSSMPCFYLLQYVLLGVAETLVNPALSVISYRFVPSNVRGTS MNFLT LFNFGFCF  
TGALLVKLVYLISDGNWFPNTLNKGNLESFFFFLASLTLLNVLGFCSVSQRYCNLHFN  
QNIIRGNSLEETLLLHEKSLKFYGSIQEFSSSIDLWETAL

>sp|Q9UHA2|S18L2\_HUMAN SS18-like protein 2 OS=Homo sapiens GN=SS18L2 PE=3 SV=1  
MSVAFVDPDWLRGKAEVNQETIQRLLLEENDQLIRCIVEYQNKGRGNECVQYQHVLHRNLIY  
LATIADASPTSTSKAME

>sp|Q9BZV2|S19A3\_HUMAN Thiamine transporter 2 OS=Homo sapiens GN=SLC19A3 PE=1 SV=1  
MDCYRTSLSSSWIYPTVILCLFGFFSMMRPSEPFLIPYLSGPDKNLTS AEITNEIFPVWT  
YSYLVLLL PVFVLT DVRYKPV IILQG ISFIITW LLLLFGQGVKTMQVVEFFYGMVTAAE  
VAYYAYIYSVVSPEHYQRVSGYCRSVTLAAYTAGSVLAQLLVSLANMSYFYLNVISLASV  
SVAFLFSLFLPMPKSKMFFHAKPSREIKKSSSVNPVLEETHEGEAPGCEEQKPTSEILST  
SGKLNKGQLNSLKPSNVTVDVFWQWQDLKECYSSKRLFYWSLWWAFATAGFNQVLNVVQ  
ILWDYKAPSDSSIYNGAVEAIATFGGAVAAFAVG YVKVNWDL LGELALVVF SVVNAGSL  
FLMHTANIWACYAGYLIFKSSYMLLITIAVFQI AVNLNVERYALVFGINTFIALVIQTI  
MTVIVVDQRGLNLPVSIQFLVYGSYFAVIAGIFLMRSMYITYSTKSQKDVQSPAPSENPD  
VSHPEESNIIMSTKL

>sp|Q86SG5|S1A7A\_HUMAN Protein S100-A7A OS=Homo sapiens GN=S100A7A PE=1 SV=3  
MSNTQAERSIIIGMIDMFHKYTRGDGKIEKPSLLTMMKENFPNFLSACDKKGIHYLATVFE  
KKDKNEDKKIDFSEFLSLLGDIAADYHKQSHGAAPCSGGSQ

>sp|095136|S1PR2\_HUMAN Sphingosine 1-phosphate receptor 2 OS=Homo sapiens GN=S1PR2 PE=1  
SV=2

MGSLYSEYLNPNKVQEHYNYTKETLETQETTSRQVASAFIVILCCAIVVENLLVLI AVAR  
NSKFHSAMYLFLGNLAASDLLAGVAFVANTLLSGSVTLRLTPVQWFAREGSAFITLSASV  
FSLLAIAIERHVAIAKVLYGSDKSCRMLLLIGASWLISLVLGGPLILGWNCLGHLEACS  
TVLPLYAKHYVLCVVTIFSIILLAI VALYVRIYCVVRSSHADMAAPQTLALLKTVTIVLG  
VFIVCWLPAFSILLDDYACPVHSCPILYKAHYFFAVSTLNSLLNPVIYTWRSRDLRREVL  
RPLQCWRPVGVGQRRRGTPGHLLPLRSSSSSLERGMHMTSPTFLEGNTVV

>sp|Q8WUM9|S20A1\_HUMAN Sodium-dependent phosphate transporter 1 OS=Homo sapiens  
GN=SLC20A1 PE=1 SV=1

MATLITSTTAATAASGPLVDYLWMLILGFIIAFVLA FSVGANDVANSFGTAVGSGVVTLK  
QACILASIFETVGSVLLGAKVSETIRKGLIDVEMYNSTQGLLMAGSVSAMFGSAVWQLVA  
SFLKLPISGTHCIVGATIGFSLVAKGQEGVKWSELIKIVMSWFVSPLLSGIMSGILFFLV  
RAFILHKADPVPNGRLALPVFYACTVGINLFSIMYTGA PLLGFDKLPLWGTILISVGCAV  
FCALIVWFFVCPRMKRKIEREIKCSPSESPLMEKKNSLKEDHEETKLSVGDIENTKHPVSE  
VGPATVPLQAVVEERTVSFKLGDLEEAPERERLPSVDLKEETSIDSTVNGAVQLPNGNLV  
QFSQAVSNQINSSGHYQYHTVHKDSGLYKELLHKLHLAKVGDCMGDSGDKPLRRNNSYTS  
YTMAICGMPLDSFRAKEGEQKGEEMEKLTPNADSKKRIRMDSYTSYCNVSDLHSAEI  
DMSVKAEMGLGDRKSGNSGLEEWDQDKPEVSLLFQFLQILTACFGSFAHGGNDVSNAIG  
PLVALYLVYDTGDVSSKVATPIWLLLYGGVGICVGLVWVGRRVIQTMGKDLTPITPSSGF  
SIELASALTVVIASNIGLP ISTHCKVGSVSVSGWLRSKKAVDWRLFRNIFMAWFVTVPI

SGVISAAIMAFRYVILRM

>sp|P40879|S26A3\_HUMAN Chloride anion exchanger OS=Homo sapiens GN=SLC26A3 PE=1 SV=1

MIIEPFGNQYIVARPVYSTNAFEENHKKTGRHHKTFDLHLKCCSCSPQKAKRIVLSLFPI  
ASWLPAYRLKEWLLSDIVSGISTGIVAVLQGLAFALLVDIPPVYGLYASFFPAIIYLFFG  
TSRHISVGPFPILSMMVGLAVSGAVSKAVPDRNATTLGLPNNSNNSSLLDDERVRVAAAA  
SVTVLSGIIQLAFGILRIGFVVIYLSSESLISGFTTAAAVHVLVSQLKFIQTLVPSHTDP  
VSIFKVLVSVFSQIEKTNIADLVLTALIVLLVVSIVKEINQRFKDKLPVPIPIEFIMTVIA  
AGVSYGCDFKNRKFVAVVGDMNPGFQPPITPDVETFQNTVGDGFIAMVAFVAFSVASV  
YSLKYDYPLDGNQELIALGLGIVCGVFRGFAGSTALSRSVQESTGGKTQIAGLIGAI  
VLIVVLAIGFLLAPLQKSVLAALALGNLKGMLMQFAEIGRLWRKDKYDCLIWIMTFIFTI  
VLGLGLGLAASVAFQLLTIVFRTQFPKCSTLANIGRTNIYKNKDYDDMYEPEGVKIFRC  
PSPIYFANIGFFRRKLIDAVGFSPLRILRKRNLARKIRKLQKQGLLQVTPKGFICTVDT  
IKDSDEELDNNQIEVLDQPINTDLPFHIDWDDLPLNIEVPKISLHSLILDFSASVFLD  
VSSVRGLKSILQEFIRIKVDVYIVGTDDDFIEKLNRYEFFDGEVKSSIFFLTIHDAVLHI  
LMKKDYSTSKFNPSQEKDGKIDFTINTNGGLRNRVYEVVETKF

>sp|O43511|S26A4\_HUMAN Pendrin OS=Homo sapiens GN=SLC26A4 PE=1 SV=1

MAAPGGRSEPPQLPEYSCSYMVRPVYSELAFQQQHERRLQERKTLRESLAKCCSCSRKR  
AFGLVLTLPVILEWLPKYRVKEWLLSDVISGVSTGLVATLQGMAYALLAAVPVGYGLYSA  
FFPILTYFIFGTSRHISVGPFPVSLMVGSVVLSMAPDEHFLVSSSNGTVLNTTMIDTAA  
RDTARVLIASALTLLVGIIQLIFGGLQIGFIVRYLADPLVGGFTTAAAFQVLVSQLKIVL  
NVSTKNYNGVLSIIYTLVEIFQNIQDNLADFTAGLLTIVVCMVAKELNDRFRHKIPVPI  
PIEVIVTIIATAISYGANLEKNYNAGIVKSIPRGFLPPELPPVSLFSEMLAASFIAVVA  
YAIASVSGKVYATKYDYTIDGNQEFIAFGISNIFSGFFSCFVATTALSRTAVQESTGGKT  
QVAGIISAAIVMIAIALGKLEPLQKSVLAADVIANLKGFMQLCDIPRLWRQNKIDAV  
IWFVTCIVSIIILGLDLGLLAGLIFGLLTVVLRVQFPSWNLGSIPTDIYKSTKNYKNIE  
EPQGVKILRFSSPIFYGNVDGFKKCIKSTVGFDAIRVYNKRLKALRKIQKLIKSGQLRAT  
KNGIISDAVSTNNAFEPDEDIEDLEELDIPTKEIEIQVDWNSLPVKVNPVKPIHSLVL  
DCGAISFLDVVGVRSLRVIVKEFQRIDVNVYFASLQDYVIEKLEQCGFFDDNIRKDTFFL  
TVHDAILYLNQVKSQEGQGSILETITLIQDCKDTLELIETELTEEELDVQDEAMRTLAS

>sp|Q96RN1|S26A8\_HUMAN Testis anion transporter 1 OS=Homo sapiens GN=SLC26A8 PE=1 SV=1

MAQLERSAISGSFSSKSRNSFAYDVKREYNEETFQQEHKRKASSSGNMNINITFRHHV  
QCRCSWHRFLRCVLTIFPFLEWCMYRLKDWLLGDLAGISVGLVQVPQGLTSLLARQL  
IPPLNIAAFCSSVIYVIFGSCHQMSIGSFFLVSALLINVLKVSPFNNGQLVMGSFVKN  
EFSAPSYLMGYNKSLSVVATTFTLTGIIQLIMGVLGLGFIATYLPESAMSAYLAAVALHI  
MLSQLTFIGIMISFHAGPISFFYDIINYCVLPKANSTSILVFLTVVVALRINKCIRIS  
FNQYPIEFPMELFLIIGFTVIANKISMATETSQTLIDMIPYSFLLPVTPDFSLLPKIILQ  
AFSLSLVSSFLLIFLGKKIASLHNYSVNSNQDLIAIGLCNVVSSFFRSCVFTGAIARTII  
QDKSGGRQQFASLVGAGVMLLLMVKMGHFFYTLPNAVLAGIILSNVIPYLETISNLPSLW  
RQDQYDCALWMMTFSSSIFLGLDIGLIISVVSFAFFITTVRSHRAKILLGQIPNTNIYRS  
INDYREIITIPGVKIFQCCSSITFVNYYLKHKLKEVDMVKVPLKEEEIFSLFNSSDTN  
LQGGKICRCFCNCDDLEPLPRILYTERFENKLDPEASSINLIHCSHFESMNTSQTASEDQ  
VPYTVSSVSQKNQGGQYEEVEEVLWPNSSRNSSPGLPDVAESQGRRSLIPYSDASLLPS  
VHTIILDFSMVHYVDSRGLVLRQICNAFQNNILILIAGCHSSIVRAFERNDFFDAGIT  
KTQLFLSVHDAVLFALSARKVIGSSELSIDSETVIRETYSETDKNDNSRYKMSSSFLGSQ

KNVSPGFIKIQQPVEEESELDLELESEQEAGLGDLDLRELEPEMEPKAETETKTQTEM  
EPQPETEPEMEPNPKSRPRAHTFPQQRYWPMYHPSMASTQSQTQTRTWSVERRRRHPMSY  
SPEGNSNEDV

>sp|Q5K4L6|S27A3\_HUMAN Long-chain fatty acid transport protein 3 OS=Homo sapiens  
GN=SLC27A3 PE=2 SV=3

MGVCQRTRAPWKEKSQLERAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLPLLLLL  
PLLLLKLHLWPQLRWLPADLAFVRALCCKRALRARALAAAAADPEGPEGGCSLAWRLAE  
LAQQRAAHTFLIHGSRRFSYSEAERESNRAARAFLRALGWDWGPDDGDSGEGSAGEGERA  
APGAGDAAAGSGAEFAGGDGAARGGGAAAPLSPGATVALLLPAGPEFLWLFGLAKAGLR  
TAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG  
ISDLLAEVSAEVDGPVPGYLSSPQSIDTCLYIFTSGTTGLPKAARISHLKILQCQGFYQ  
LCGVHQEDVIYLALPLYHMSGSLGIVGCMGIGATVVLKSKFSAGQFWEDCQQHRVTVFQ  
YIGELCRYLVNQPPSKAERGHKVR LAVGSGLRPDTWERFVRRFGPLQVLETYGLTEGNVA  
TINYTGQRGAVGRASWLYKHIFPFSIRYDVTTGEPIRD PQGHCMATSPGEPGLLVAPVS  
QQSPFLGYAGGPELAQ GKLLKDVFRPGDVFFNTGDLVCDDQGFLRFHVRTGDTFRWKGE  
NVATTEVAEVFEALDFLQEVNVYGVTVPGHEGRAGMAALVLRPPHALDLMQLYTHVSEN  
PPYARPRFLRLQESLATTETFKQKQVRMANEGFDPSTLS DPLYVLDQAVGAYLPLTTARY  
SALLAGNLRI

>sp|Q9Y2P5|S27A5\_HUMAN Bile acyl-CoA synthetase OS=Homo sapiens GN=SLC27A5 PE=1 SV=1

MGVRQQALALLLLLLLLLWGLGQVPVPAVALTLRWLLGDPTCCVLLGLAMLARPWLGPWV  
PHGLSLAAAALALTLLPARLPPGLRWLPADVIFLAKILHLGLKIRGCLSRQPPDTFVDAF  
ERRARAQPGRALLVWTGPGAGSVTFGELDARACQAAWALKAE LGDPASLCAGEPTALLVL  
ASQAVPALCMWLGLAKLGCPTAWINPHGRGMPLAHSVLSGARVLVDPDLRESLEEILP  
KLQAEINIRCFYLSHTSPTPGVGALGAALDAAPSHVPADLRAGITWRSPALFIYTS GTTG  
LPKPAILTHERVLQMSKMLSLSGATADDVVYTVLPLYHVMGLVVGILGCLDLGATCVLAP  
KFSTSCFWDDCRQHGVTVILYVGELLRYLCNIPQQPEDRTHTVRLAMGNGLRADVWETFQ  
QRFGP IRIWEVYGSTEGNMGLVNYVGRGALGKMSCLLRMLSPFELVQFDMEAAEPVRDN  
QGFCIPVGLGEPGLLLTKVVSQQPFVGYRGPRELSEKLRNVNRQSGDVYYNTGDVLAMD  
REGFLYFRDRLGDTFRWKGENVSTHEVEGVLSQVDFLQQVNVYGVCPVGCCEGKVGMAAVQ  
LAPGQTFDGEKLYQHVRWLPAATPHFIRIQDAMEVTSTFKLMKTRLVREGFNVGIVVD  
PLFVLDNRAQSFRPLTAEMYQAVCEGTWRL

>sp|Q5TZJ5|S31A1\_HUMAN Spermatogenesis-associated protein 31A1 OS=Homo sapiens  
GN=SPATA31A1 PE=3 SV=1

MENLPFPLKLLSASSLNAPSSTPWVLDIFLTLVFALGFFFLLLPYLSYFRCDPPSPSPG  
KRKCPVGRRRRPRGRMKNHSLRAGRECPRGLQETSDLLSQLQSLLGPHLDKGDFGQLSGP  
DPPGEVGERAPDGASQSSHEPMEDAAPILSPLASDPQAKHPQDLASTPSPGPMTTSVSS  
LSASQPPEPSLPLEHPSPEPPALFPHPPHTPDPLACSPPPPKGFTAPPLRDSTLITPSHC  
DSVALPLGTVPQSLSPHEDLVASVPAISGLGGSNSHVSASSRWQETARTSCAFNSSVQQD  
HLSRHPPETYQMEAGSLFLLSSDGQNAVG IQVTETAKVNIWEEKENVGSFTDRMTPEKHL  
NSLRNLAKSLDAEQDTTNPKPFWNMGENSKQLPGPQKLSDPRLWQESFWKNYSQLFWGLP  
SLHSESLVANAWVTDRSYTLQSPPFNFNEMSNVCP IQRETTMSPLL FQAQPPSHLGPECQ  
PFISSTPQFRPTMAQAEQAHLQSSFPVLSPAFPSLIKNTGVACPASQNKVQALSLPET  
QHPEWPLLRRLQLEGRALALSRVQKSQDVFSVSTPNLPQESLTSILPENFPVSPELRRQLE  
QHIKKWIIQHWGNLGR IQESLDLMQLRDESPGTSQAKGKPSPWQSSMSTGESSKEAQKVK

FQLERDPCPHLGQILGETPQNLSRDMKSFPRKVLGVTSEESERNLRKPLRSDSGSDLLRC  
TERTHIENILKAHMGRNLGQTNEGLIPVRVRRSWLAVNQALPVSNTHVKTSNLAAPKSGK  
ACVNTAQVLSFLEPCTQQGLGAHIVRFWAKHRWGLPLRVLKPIQCFKLEKVSSLSLTQLA  
GPSSATCESGAGSEVEVDMFLRKPPMASLRKQVLTAKSDHMPESLLASSPAWKQFQRAPR  
GIPSWNDHGPLKPPPAGQEGRWPSKPLTYSLTGSTQQSRLGAQSSKAGETREAVPQCRV  
PLETCMLANLQATSEDMHGFEAPGTSKSSSLHPRVSVSQDPRKLCLMEEVVNEFEPGMATK  
SETQPQVCAAVVLLPDGQASVVPHASENLVSQVPQGHLQSM PAGNMRASQELHDLMAARR  
SKLVHEEPRNPNCQGSCKNQRPMFPP IHKSEKSRKPNLEKHEERLEGLRTPQLTPVRKTE  
DTHQDEGVQLLPSKKQPPSVSHFGGNIKQFFQWIFSKKSKPAPVTAESQKTVKNRSCVY  
SSSAEAQGLMTAVGQMLDEKMSLCHARHASKVNQHKQKFQAPVCGFPCNHRHLYSEHGR  
ILSYAASSQQATLKSQGCNPNRDRQIRNQQPLKSVRCNNEQWGLRHPQILHPKKA VSPVSP  
LQHWPKTSGASSHHHHCPRHCLLWEGI

>sp|PODKV0|S31C1\_HUMAN Spermatogenesis-associated protein 31C1 OS=Homo sapiens  
GN=SPATA31C1 PE=2 SV=1

MENLPFPLKLLSASSLNTSPSTPWVLDIFLTLVFALGLFFLLPYFSYLRCDNPPSPSPR  
KRRHRLVSQRHLVSQCPTGRRGRPRGRMKNHSLRACRECPRGLEETWDLLSQLQSLGPH  
LEKGDGFGQLSGDPPGEVGKRTPDGASRSSHEPMEDAAPIVSPLASPDPRTKHPQDLAST  
PPPGPMTTSVSSLASQPPEPSLLLERPSPEPPALFPHPPHTPDPLACSPPPKGFTPPP  
LRDSTLLTPSHCDSVALPLDTPVQSLSPREDLAASVPAISGLGGSNSQVSALSWSQETTK  
TWCIFNSSVQQDHLSRQRDTTMSPLLFAQQPLSHLGPESQPFISSTPQFRPTMAQAEAQ  
AHLQSSFPVLSPAFLSPMKNTGVACPASQNKVQALSLPETQHPERPLLRKQLEGGLALPS  
RVQKSQDVFSVSTPNLPQERLTSILPENFPVSPELWRQLEQYMGQRGRIQESLDLMQLQD  
ELPGTSQAKGKPRPWQSSTSTGESSKEAQTVKFQLERDPCPHLGQILGETPQNLSRGMES  
FPGKVLGATSEESERNLRKPLRSDSGSDLLRRTERNHIENILKAHMGRKLGQTNEGLIPV  
SVRRSWLAVNQAFVPSNTHVKTSNLAAPKSRKACVNTAQVLSFLELCTQQVLEAHIVRFW  
AKHRWGLPLRVLKPIQCFKLEKVSSLSLIQLAGPSSDTCESGAGSKVEVATLLGEPPMAS  
LRKQVLTKPSVHMPERLQASSPACKQFQRAPRGIPSSNDHGSLKAPTAGQEGRWPSKPLT  
YSLKGSTQQSRLGAQSSRAGETREAVPQPTVPLGTCMRANLQATSEDV RGFKAPGASKS  
SLLPRMSVSVQDPRKLCLMEEAVSEFEPGMATKSETQPQVSAAVVLLPDGQASVVPHASEN  
LASQVPQGHLQSTPTGNMQASQELCDLMSARRSNMGHKEPRNPNCQGSCKSQSPMFPPTH  
KRENSRKPNLEKHEEMFQGLRTPQLTPGRKTEDTRQNEGVQLLPSKKQPPSISHFGENIK  
QFFETIFSKKERKAPVTAESQKTVKNRSCVYGSSAEALMTAVGQIPEENMSLCHARH  
ASKVNQQRQQFQAPVCGFPCNHRHPFYSDHSRMLSYAASSQQATLKNQSRPNRDRQIRDQ  
QPLKSVRCNNEQWGLRHPQLLLPKKAVSPVSPQHRPKTPSASSHHHH

>sp|Q9BS91|S35A5\_HUMAN Probable UDP-sugar transporter protein SLC35A5 OS=Homo sapiens  
GN=SLC35A5 PE=1 SV=2

MEKQCCSHPVICSLSTMYTFLLGAIFIALSSSRILLVKYSANEENKYDYLPTTVNVCSEL  
VKLVFCVLVSFCVIKKDHQSRNLKYASWKEFSDFMKWSIPAFLYFLDNLIVFYVLSYLQP  
AMAVIFS NFSIITALLFRIVLKRRLNWIQWASLLTLFLSIVALTAGTKTLQHNLAGRGF  
HHD AFFSPSNSCLLFRSECPRKDNCTAKEWTFPEAKWNNTARVFSHIRLGMGHVLIIVQC  
FISSMANIYNEKILKEGNQLTESIFIQNSKLYFFGILFNGLTLGLQRSNRDQIKNCGFFY  
GHS AF SVALIFVTA FGQLS VAFILKFLDNMFHVLMAQVTTV IITTVSVLVDFRPSLEFF  
LEAPSVLLSIFIYNASKPVPEYAPRQERIRDLSGNLWERSSGDGEELERLTKPKSDESD  
EDTF

>sp|P78383|S35B1\_HUMAN Solute carrier family 35 member B1 OS=Homo sapiens GN=SLC35B1 PE=1 SV=1

MASSSSSLVPDRLRLPLCFLGVFVCYFYGYILQEKITRGKYGEGAKQETFTFALTLVFIQC  
VINAVFAKILIQFFDTARVDRTRSWLYAACSSISYLGAMVSSNSALQFVNYPTQVLGKSCK  
PIPVMLLGVTLLKKKYPLAKYLCVLLIVAGVALFMYKPKKVVGIEEHTVGYGELLLLLSL  
TLDGLTGVSQDHMRAHYQTGSNHMMLNINLWSTLLGMGILFTGELWEFLSFAERYPAII  
YNILLFGLTSALGQSFIFMTVVYFGPLTCSIITTRKFFITLASVILFANPISPMQWVGT  
VLVFLGLGLDAKFGKGAKKTS

>sp|POCK97|S35E2\_HUMAN Solute carrier family 35 member E2 OS=Homo sapiens GN=SLC35E2 PE=2 SV=1

MSSSVKTPALEELVPGSEEKPKGRSPLSWGSLFGHRSEKIVFAKSDGGTDENVLTVTITE  
TTVIESDLGVWSSRALLYLTWFFFSFCTLFLNKYILSLLGGEPSMLGAVQMLSTTVIGC  
VKTLVPCCLYQHKARLSYPPNFLMTMLFVGLMRFATVVLGLVSLKNVAVSFAETVKSSAP  
IFTVIMSRMILGEYTRPSDREEREELQLQPGRGAAASDRRSPVPPSERHGVPRPHGENLP  
GDFQVPQALHRVALSMALPCMLPAS

>sp|Q92504|S39A7\_HUMAN Zinc transporter SLC39A7 OS=Homo sapiens GN=SLC39A7 PE=1 SV=2

MARGLGAPHWVAVGLLTWATLGLLVAGLGGHDDLHDDLQEDFHGHSHRSHSHEDFHGHSH  
AHGHGHTHESIWHGHTHDHDHGHSHEDLHHGHSHGYSHESLYHRGHGHDHEHSHGGYGES  
GAPGIKQDLDAVTLWAYALGATVLIISAAPFFVLFLIPVESNSPRHRSLLQILLSFASGGL  
LGDAFLHLIPHALEPHSHHTLEQPGHGHSHSGQGPILSVGLWVLSGIVAFVLVEKFVRHV  
KGGHGHSHGHGHAHSHTRGSHGHRQERSTKEKQSSEEEKETRGVQKRRGGSTVPKDG  
VRPQNAEEEKRLDLRVSGYLNLAAADLAHNFTDGLAIGASFRGGRGLILTMTVLLHEV  
PHEVGDFAILVQSGCSKKQAMRLQLLTAVGALAGTACALLTEGGAVGSEIAGGAGPGWVL  
PFTAGGFIYVATVSVLPELLREASPLQSLLEVLGLLGGVIMMVLIAHLE

>sp|Q8N1S5|S39AB\_HUMAN Zinc transporter ZIP11 OS=Homo sapiens GN=SLC39A11 PE=2 SV=3

MLQGHSSVFQALLGTFTTWGMTAAGAALVFVFSSGQRRILDGSLGFAAGVMLAASYWSLL  
APAVEMATSSGGFGAFAFPVAVGFTLGAAFVYLADLLMPHLGAAEDPQTTLALNFGSTL  
MKKSDPEGPALLFPESELSIRIGRAGLLSDKSENGEAYQRKAAATGLPEGPAVPVPSR  
GNLAQPGGSSWRRIALLILAITIHNVPEGLAVGVGFGAIEKTASATFESARNLAIGIGIQ  
NFPEGLAVSLPLRGAGFSTWRAFWYQQLSGMVEPLAGVFGAFVLAEPILPYALAFAG  
AMVYVVMDDIPEAQISGNGLASWASILGFVVMMSLDVGLG

>sp|Q8IVJ1|S41A1\_HUMAN Solute carrier family 41 member 1 OS=Homo sapiens GN=SLC41A1 PE=2 SV=2

MSSKPEPKDVHQLNGTGPSASPCSSDGPGRPLAGTSEFLGPDGAGVEVVIESRANAKGV  
REEDALLENGSQSNESDDVSTDRGPAPPSPLKETSFSIGLQVLPFLLAGFGTVAAGMVL  
DIVQHWVEVFQKVTEVFILVPALLGLKGNLEMTLASRLSTANIGHMDTPKELWRMITGNM  
ALIQVQATVVVGFLASIAAVVFGWIPDGHFSIPHAFLLCASSVATAFIASLVLMIMIGVI  
IGSRKIGINPDNVATPIAASLGLITLALLSGISWGLYLELNHWRYIYPLVCAFFVALLP  
VWVVLARRSPATREVLVSGWEPVIAMAISSVGGILDKTVSDPNFAGMAVFTPVINGVG  
GNLVAVQASRISTFLHMNGMPGENSEQAPRRCPSPCTTFFSPDVNSRSARVFLLVVPGH  
LVFLYTISCMQGGHTTLTLIFIIFYMTAALLQVLILLYIADWMVHWMWGRGLDPDNFSIP  
YLTALGDLLGTGLLALS FHLWLIGDRD TDVGD

>sp|Q9HBV2|SACA1\_HUMAN Sperm acrosome membrane-associated protein 1 OS=Homo sapiens GN=SPACA1 PE=1 SV=1



MSPRGTGCSAGLLMTVGWLLLAGLQSGRTNVTAAVQDAGLAHEGEGEEETENNDSETAE  
NYAPPETEDVSNRNVKEVEFGMCTVTCGIGVREVILTNGCPGGESKCVVRVEECRGPTD  
CGWGKPISESLESVRLACIHTSPLNRFKYMWKLLRQDQSSIILVNDSAILEVRKESHPLA  
FECDTLDNNEIVATIKFTVYTSSSELQMRSSLPATDAALIFVLTIGVVICVFIIIFLLIFI  
IINWAAVKAFWGAKASTPEVQSEQSSVRYKDSTSLDQLPTMPGEDDALSEWNE

>sp|Q8IXA5|SACA3\_HUMAN Sperm acrosome membrane-associated protein 3 OS=Homo sapiens  
GN=SPACA3 PE=1 SV=1

MVSALRGAPLIRVHSSPVSSPSVSGPRRLVSCLSSQSSALSQSGGGSTSAAGIEARSRAL  
RRRWCPAGIMLLALVCLLSCLLPSSSEAKLYGRCELARVLHDFGLDGYRGYSLADWVCLAY  
FTSGFNAAALDYEADGSTNNGIFQINSRRWCNLTNPVNPVCRMYSDDLNPNLKDTVIC  
AMKITQEPQGLGYWEAWRHHCQGKDLTEWVDGCDF

>sp|Q9P1V8|SAM15\_HUMAN Sterile alpha motif domain-containing protein 15 OS=Homo sapiens  
GN=SAMD15 PE=2 SV=1

MAEVPEDYDSGPDEDGELEPERPELPGLHKLKENAEPDTMAKADSKLPAEIIYQEPQPETE  
EEDFKEGEPDSAKNVQLKPGGTSQEGIAKESKRDPVSETEPGIHQEVKSETSRMEGFFK  
DLEAPMDETHKESDLEPPEEAKPNVTEDVFLESAMETDPDPVPPTETMSEVSGATVRERN  
LELLEETEPGVPEESLRVQHEETGLEPPEQTKQDFPSEKLGESLEETDLQPPKMTKPET  
PEETQRESTEKKRTEPPEQARLEFLEKEPRKSSEEAGLEPPEETQPEVPEEMQRKATEEK  
GTCLPERTKPDFPDHPRKSTDENVPEPLEEIKLEFPSEESRKTNEETILEQSEMMKPES  
PEEIRKSNEKKNPQPEETGPVLPQEINPQVEEKTQTKPTEKILELPDETKPRETHVEFS  
KEDRPEPIKSKYSVGNDLEHREPGRKGLSLDKFRKEYYALGSLRESEESIGTHYEFLLQ  
PLQKLLNVSEECYSYDPSQSQTSLSEFVHEKEVVDLSELKERVSEDDQPEKGTCLQF  
EHLNWDPEEVAEWISQLGFPQYKECFITNFISGRKLIHVNCNLPQMGITNFEDMKAISR  
HTQELLEIEEPLFKRSISLPYRDIIGLYLEQKGHTGIKSDSLTSEFVKAAGLQDYAPEI  
TAPEENEELPCTEP

>sp|Q5TG14|SAMD5\_HUMAN Sterile alpha motif domain-containing protein 5 OS=Homo sapiens  
GN=SAMD5 PE=3 SV=1

MCTNIVYEWLQALQPLQYAESFVDNGYDDLEVCKQIGDPDLDAIGVLAPAHRRRILEAVR  
RLREQDANAAGLYFTLEPQPAPPGPPADAVPTGRRGEPGCGPAQGTGRGDSRGHTTAPRSR  
ELVSYPKLKLKIMIRDKLVLDGIHLSKPPYSRKVPIMAGILEYLMNWPKSSQSR

>sp|Q6NUJ1|SAPL1\_HUMAN Proactivator polypeptide-like 1 OS=Homo sapiens GN=PSAPL1 PE=2  
SV=2

MLCALLELLPSLLGATRASPTSGPQECAGSTVWCQDLQTAARCGAVGYCQGAIVWVKPTAK  
SLPCDVCQDIAAAGNGLNPDATESDILALVMKTCEWLPSQESSAGCKWMVDAHSSAILS  
MLRGAPDSAPAQVCTALSLCEPLQRHLATLRPLSKEDTFEAVAPFMANGPLTFHPRQAPE  
GALCQDCVRQVSRLEAVRSNLTADLNIQEQCESLGPGLAVLCKNYLFQFFVPADQALR  
LLPPQELCRKGGFCEELGAPARLTQVVAMDGVPSLELGLPRKQSEMQMKAAGVTCEVCMNV  
VQKLDHWLMSNSELMIHALERVCSVMPASITKECIILVDITYPSLVQLVAKITPEKVC  
KFIRLCGNRRRARAVHDAYAIVPSPEWDAENQGSFCNGCKRLLTVSSHNLKSKTKRDIL  
VAFKGGCSILPLPYMIQCKHFVTQYEPVLIESLKDMMDPVAVCKKVGACHGPRTPLLGTD  
QCALGPSFWCRSQEAAKLCNAVQHCQKHVWKEMHLHAGEHA

>sp|Q9BW04|SARG\_HUMAN Specifically androgen-regulated gene protein OS=Homo sapiens  
GN=SARG PE=1 SV=2

MPERELWPAGTGSEPVTRVGSCDSMMSSTSTRSGSSDSSYDFLSTEEKECLLFLEETIGS

LDTEADSGLSTDESEPATTPRGFRALPITQPTPRGGPEETITQQGRTPRTVTESSSSHPP  
EPQGLGLRSGSYSLPRNIHIARSQNFRTSTQASSHNPGEFGRLAPEPEKEQVSQSSQPR  
QAPASPQEAALDLVDLIPPPEAFRDTQPEQCREASLPEGPGQQGHTPQLHTPSSSQERE  
QTPSEAMSKAKETVSTRYTQPPPPAGLPQNARAEDAPLSSGEDPNSRLAPLTPKPRK  
LPPNIVLKSSRSSFSHPDQHWLSRHTEAAPGDSGLISCSLQEQRKARKEALEKLGLPQDQ  
DEPGLHLSKPTSSIRPKETRAQHLSPAPGLAQPAAPAAQASAAIPAAGKALAQAPAPAPGP  
AQGPLPMKSPAPGNAASKSMPISIPKAPRANSALTPPKESGLTLQESNTPGLRQMNFK  
SNTLERSGVGLSSYLSTEKDASPKTSTSLGKGSFLDKISPSVLNRNRPASLGTGKDF  
GIQVGKLADLEQEQSSKRLSYQGQSRDKLPRPPCVSVKISPKGVPNEHRREALKKLGLLK  
E

>sp|Q9NQZ2|SAS10\_HUMAN Something about silencing protein 10 OS=Homo sapiens GN=UTP3 PE=1  
SV=1

MVGRSRRRGAAKWAARAKAGPTLTDENGDDLGLPPSPGDTSYQDQVDDFHEARSRAAL  
AKGWNEVQSGDEEDGEEEEVLAALDMDDEDGAGNAGEEEEEENADDDGGSSVQSEAE  
ASVDPSLSWGQRKKLYDTDYGSRSRGRSQQAEEEEEEEEEAQIIQRRLAQALQEDD  
FGVAWVEAFKVPVQVDEAETRVVKDLAKVSVKEKLKMLRKESPELLELIEDLKVKLTEV  
KDELEPLLELVEQGIIPPGKGSQYLRTKYNLYLNYCSNISFYLIKARRVPAHGHPVIER  
LVTYRNLINKLSVVDQKLSSEIRHLLTLKDDAVKKELIPKAKSTKPKPKSVSKTSAAACA  
VTDLSDDSDFDEKAKLKYYKEIEDRQKLKRKKEENSTEEQALDQNAKRAITYQIAKNRG  
LTPRRKKIDRNPRVKHREKFRRAKIRRRGQVREVRKEEQRYSGELSGIRAGVKKSIKLK

>sp|P21817|RYR1\_HUMAN Ryanodine receptor 1 OS=Homo sapiens GN=RYR1 PE=1 SV=3

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LAICCFVLEQSLSVRALQEMLANVEAGVESSQGGGHRTLLYGHAILLRHAHSRMYLSCL  
TTSRSMTDKLAFDVGLQEDATGEACWWTMHPASKQRSEGEKVRVGDDIILVSVSSERYLH  
LSTASGELQVDASFMTLWNMNPICSRCEGFVTGGHVLRLFHGHMDECLTISPADSDDQ  
RRLVYIEGGAVCTHARSLWRLEPLRISWGSGLRWGQPLRVRHVTTGQYLALTEDQGLVV  
VDASKAHTKATSFCFRISKEKLDVAPKRDVEGMGPPEIKYGESLCFVQHVASGLWLTAA  
PDPKALRLGVLKKKAMLHQEGHMDDALSLTRCQQEESQAARMIHSTNGLYNQFIKSLDSF  
SGKPRGSGPPAGTALPIEGVILSLQDLIIYFEPSEDLQHEEKQSKLRLNRNQSLSFQEE  
GMLSMVLNCIDRLNVYTAAHFAEFAGEEAAESWKEIVNLLYELLASLIRGNRSNCALFS  
TNLDWLVSCLDRLEASSGILEVLYCVLIESPEVLNIIQENHIKSIISLLDKHGRNHKVL  
VLCSLCVCNGVAVRSNQDLITENLLPGRELLQTNLINYVTSIRPNIFVGRAEGTTQYSK  
WYFEVMVDEVTPFLTAATHLRVGWALTEGYTPYPGAGEGWGNGVGDDLYSYGFDGLHL  
WTGHVARPVTSPGQHLLAPEDVISCCDLSPVPSISFRINGCPVQGVFESFNLGDLFFPVV  
SFSAGVKVRFLGGRHGEFKFLPPPGYAPCHEAVLPRERLHLEPIKEYRREGPRGPHLVG  
PSRCLSHTDFVPCPVDTVQIVLPPHLERIREKLAENIHELWALTRIEQGWTYGPVRDDNK  
RLHPCLVDFHSLPEPERNYNLQMSGETLKTLLALGCHVGMADKAEDNLKTKLPKTYMM  
SNGYKPAPLDLSHVRLTPAQTTLVDRLAENGHNWARDRVGQGSYSYAVQDIPARRNPRL  
VPYRLDEATKRSNRDSLCAVARTLLGYGYNIEPPDQEPSQVENQSRCDRVRIFRAEKSY  
TVQSGRWYFEFAVTTGEMRVGWARPRLPDVELGADELAYVFNGHRGQRWHLGSEPFGR  
PWQPGDVVGCMDLTENTIIFTLNGEVLMSDSGSETAFREIEIGDGLFPVCSLPGGQVGH  
LNLGQDVSSRLFFAICGLQEGFEPFAINMQRPVTTWFSKGLPQFEPVPLEHPHYEVS  
RVD GTVDTPPCLRLTHRTWGSQNSLVEMLFLRLSLPVQFHQHFRC TAGATPLAPPGLQPPAED  
EARAEPDPDYENLRRSAGGWSEAENGKEGTAKGAPGGTPQAGGEAQPARAENEKDATT

EKNKKRGFLFKAKKVAMMTQPPATPTLRLPHDVVPADNRDDPEIILNTTTYYSVRVFA  
GQEPSCVWAGWVTPDYHQHMSFDLSKVRVTVTMGDEQGNVHSSLKCSNCYMWGGDFV  
SPGQQGRISHTDLVIGCLVDLATGLMTFTANGKESNTFFQVEPNTKLFPAVFVLPTHQNV  
IQFELGKQKNIMPLSAAMFQSERKNPAPQCPRLEMQMLMPVSWSRMPNHFLQVETRAG  
ERLGWAVQCQEPLTMMALHIPEENRCMDILELSERLDLQRFHSHTLRLYRAVCALGNNRV  
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TRAITLFPPGRSTENGHPRHGLPGVGVTTSLRPPHHFSPPCFVAALPAAGAAEAPARLSP  
AIPLEALRDKALRMLGEAVRDGGQHARDPVGGSVFQFVPVLKLVSTLLVMGIFGDEDVK  
QILKMIPEVFTEEEEEEDEEEEGEEDEEEKEEDEETAQEKEDEEKEEEEEAAEGEKEE  
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IDNNELALALQEQDLEKVVSYLAGCGLQSCPMLVAKGYPDIGWNPCCGGERYLDFLRFAVF  
VNGESVEENANVVVRLLIRKPECFGPALRGEESGLLAAIEEAIRISEDPA RDGPGIRRD  
RRREHFGEEPPEENRVHLGHAIMSFYAALIDLLGRCAPEMHLIQAGKGEALRIRAILRSL  
VPLEDLVGIIISLPLQIPTLGKD GALVQPKMSASFVPDHKASMVFLDRVYGIENQDFLLH  
VLDVGFLPDMRAAASLDTATFSTTEMALALNRYLCLAVLPLITKCAPLFAGTEHRAIMVD  
SMLHTVYRLSRGRSLTKAQRDVEDCLMSLCRYIRPSMLQHLLRRLVFDVPILNEFAKMP  
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PCLCAIAGALPPDYVDASYSSKAEKKATVDAEGNFDPRPVETLNVIIPEKLDSFINKFAE  
YTHEKWAFDKIQNNWSYGENIDEELKTHPMLRPYKTFSEKDKEIYRWP IKESLKAMIAWE  
WTIEKAREGEEETEKKKTRKISQSAQTYDPREGYNPQPPDLSAVTLSRELQAMAEQLAE  
NYHNTWGRKKKQELEAKGGGTHPLLVPYDTLTAKEKARDREKAQELLKFLQMNGYAVTRG  
LKDMELDSSSIEKRFAFGFLQQLLRWMDISQEFIAHLEAVVSSGRVEKSPHEQEIKFFAK  
ILLPLINQYFTNHCLYFLSTPAKVLGSGGHASNKEKEMITSLFCKLAALVRHRVSLFGTD  
APAVVNCLHILARSLDARTVMKSGPEIVKAGLRSFFESASEDIEKMVENLRLGKVSQART  
QVKGVGQNLTYTTVALLPVLTTLFQHIAQHQFGDDVILDDVQVSCYRTLCSYISLGTTKN  
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PDIPVLERLMADIGGLAESGARYTEMPHVIEITLPM LCSYLPRWWERGPEAPPSALPAGA  
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ALKDTEDEVREFLHNNLHLQGKVEGSPSLRWQMALYRGVPGREEDADDPEKIVRRVQEV  
AVLYYLDQTEHPYKSKAVWHKLLSKQRRRAVVACFRMTPLYNLPTHRACNMFLESYKAA  
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LDLNAFERQNAEGLGMVNEDGTVINRQNGEKVMADEFTQDLFRFLQLLCEGHNNDFQN  
YLRTQTGNTTTTINIICTVDYLLRLQESISDFYWYYSKGDVIEEQGRNFSKAMSVAKQV  
FNSLTEYIQGPCTGNQQSLAHSRLWDAVVGFLHVFAHMMMKLAQDSSQIELLKELLDLQK

DMVVMLLSLLEGNNVNGMIARQMVDMLVESSSNVEMILKFFDMFLKLDIVGSEAFQDYV  
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NVAVLLTNLSEHVPHDPRHLNLFLELAESILEYFRPYLGRIETMGASRRIERIYFEISETN  
RAQWEMPQVKESKRQFIFDVVNEGGEAEKMELFVSFCEDTIFEMQIAAQISEPEGEPETD  
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RKFYNKSEDEDEPDMKCDDMMTCYLFHMYGVRAGGGIGDEIEDPAGDEYEL YRVVFDIT  
FFFFVIVILLAI IQGLI IDAFGELRDQQEQVKEDMETKCFICGIGSDYFDTTPHGFETH  
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>sp|Q92736|RYP2\_HUMAN Ryanodine receptor 2 OS=Homo sapiens GN=RYP2 PE=1 SV=3

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LRHSYSGMYLCLSTSRSDTKLAFDVLQEDTTGEACWWTIHPASKQRSEGEKVRVGDD  
LILSVSSERYLHLSYNGSLHVDAAFQQTLSVAPISSGSEAAQGYLIGGDVLRLLHGH  
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CYIQHVD TGLWLTYSVDVKSVRMGSIQRKAIMHHEGHMDDGISLSRSQHEESRTARVIR  
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ALKNRQNL FQEEGMINLVLECIDRLHVYSSAAHFADVAGREAGESWKSILNSLYELLAAL  
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LDKHGRNHKVLVDLCSLCVCHGVAVRSNQHLICDNL L PGRDLLQTRLNVHVS S MRPNIF  
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FIPVCSLGVAQVGRMNFGKDVSTLKYFTICGLQEGYEPFAVNTNRDITMWLSKRLPQFLQ  
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GLPGAGLFGPKNDLEDYDADSDFEVLMKTAHGHLVPDRVDKDKEATKPEFNHNDYAEK  
PSRLKQRFLLRRTPDYSTSHSARLTEDVLADDRDDYDFLMQTSTYYYSVRIFPGQEPAN  
VWVGWITSDFHQYDTGFDLDRVRTVTTLGDEKGVHESIKRSNCYMCAGESMSPGQGR  
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KNVMPLSAGLFKSEHKNPVPQCPPRLHVQFLSHVLWSRMPNQFLKVDVSRISERQGWLVQ  
CLDPLQFMSLHIPEENRSVDILELTEQEELKFHYHTLRLYSAVCALGNHRVAHALCSHV  
DEPQLLYAIENKYPGLLRAGYYDLLIDIHLSSYATARLMNNEYIVPMTEETKSITLFP  
DENKKHGLPGIGLSTSLRPRMQFSSPSFVSISNECYQYSPEFPLDILKSKTIQMLTEAVK  
EGSLHARDPVGGTTEFLFVPLIKLFYTLIMGIFHNEDLKHILQLIEPSVFKEAATPEEE  
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RIEAIIVAFSDDFAKLQDNQFRYNEVMQALNMSAALTARKTKEFRSPPEEQINMLLNFK  
DDKSECPCEEIRDQLLDFHEDLMTHCGIELDEDGSLDGNSDLTIRGRLLSLVEKVTYLK  
KKQAEKPVESDSKKSSTLQQLISETMVRWAQESVIEDPELVAMFVLLHRQYDGIGGLVR  
ALPKTYTINGVSVEDTINLLASLGQIRSLLSVRMGKEEEKLMIRGLGDMNNKVIFYQHPN  
LMRALGMHETVMEVMVNLGGGESKEITFPKMVANCCRFLCYFCRISRQNKAMFDHLSY  
LLENSSVGLASPAMRGSTPLDVAAASVMDNNELALALREPDLEKVVRYLAGCGLQSCQML  
VSKGYPDIGWNPVEGGERYLDLRFVFCNGESVEENANVVVRLIRRPECFGPALRGE  
NGLLAAMEEAIKIAEDPSRDGSPNSGSSKTLDTTEEEEDTIHMGNAIMTFYSALIDL  
RCAPEMHLIHAGKEAIRSILRSLIPLGDLVGVISIAFQMPTIAKGNVVEPDMSAGF  
CPDHKAAMVFLDRVYGIEVQDFLLHLEVGFPLDRAAASLDTAALSATDMALALNRYL  
CTAVLPLLTRCAPLFAAGTEHHASLIDSLHTVYRLSKGCSLTKAQRDSIEVCLLSICGQL  
RPSMMQHLLRRLVFDVPLLNEHAKMPLKLLTNHYERCWKYYCLPGGWGNFGAASEEELHL  
SRKLFWGIFDALSQKKEQELFKLALPCLSAVAGALPPDYMESNYVSMMEKQSSMDSEGN  
FNPQPVDTSNITIKELEYFINKYAEHSHDKWSMDKLANGWIYGEIYSDSSKVQPLMKPY  
KLLSEKEKEIYRWPIKESLKTMLAWGWRIERTREGDSMALYNRTRRISQTSQVSVDAAHG  
YSPRAIDMSNVTLSRDLHAMAEMMAENYHNIWAKKKKMELESKGGGNHPLLVPYDTLTAK  
EKAKDREKAQDILKFLQINGYAVSRGFKDLELDTPSIEKRFAYSFLQQLIRYVDEAHQYI  
LEFDGGSRGKGEHFPYEQEIKFFAKVVLPLIDQYFKNHRLYFLSAASRPLCSGGHASNKE  
KEMVTSLSFCKLGLVRHRISLFGNDATSVNCLHILGQTLDTARTVMKTGLESVKALRAF  
LDNAEEDLEKTENLQKGFTHTRNQPKGVTQIINYTTVALLPMLSSLFEHIGQHGFQED  
LILEDVQVSCYRILTSLYALGTSKSIYVERQRSALGECLAAGAFPAFLTHLDKHNI  
YSIYNTKSSRERAALSLPTNVEDVCPNIPSLEKLMEEIVELAESGIRYTMQPHVMEVILP  
MLCSYMSRWWEHGPENNERAEMCCTALNSEHMTLLGNILKIIYNNLGIDEGAWMKRLA  
VFSQPIINKVKPQLLKTHFLPLMEKLLKKAATVVSEEDHLKAEARGDMSEAELLILDEFT  
TLARDLYAFYPLLIRFVDYNRAKWLKEPNPEAEELFRMVAEVFIYWSKSHNFKREEQNFV  
VQNEINNMSFLITDTKSKMSKAAVSDQERKKMKRKGDRYSMQTSLIVAALKRLLPIGLNI  
CAPGDQELIALAKNRFSLKDETEVDIRSNIHQGLKLEDPAIRWQMALYKDLNRTDD  
TSDPEKTVERVLDIANVLFHLEQKSKRVGRRHYCLVEHPQRSKKAHVHKLKSKQRKRAVV  
ACFRMAPLYNLPRHRAVNLFLQGYEKSWIETEEHYFEDKLIEDLAKPGAEPPEDEGTRK  
VDPLHQLILLFSRTALTEKCKLEEDFLYMAADIMAKSCHDEEDDDGEEVKSFEKEME  
KQKLLYQQARLHARGAAEMVLQTSASKGETGPMVAATLKLGIAILNGNSTVQQKMLDY  
LKEKKDVGFFQSLAGLMQSCSVLDLNAFERQKAEGLGMVTEEGSGEKVLQDDEFTCDLF  
RFLQLLCEGHNSDFQNYLRTQTGNNTTVNIIISTVDYLLRVQESISDFYWYYSKDVIDE  
QGQRNFSKAIQVAKQVFNTLTEYIQGPCTGNQQLAHSRLWDAVVGFLHVFHMQMKSQ  
DSSQIELLKELMDLQKDMVVMLLSMLEGNVNGTIGKQMVDMLEVSSNNVEMILKFFDMF  
LKLKDLTSSDTFKEYDPDGKGVISKRDFHKAMESHKHYTQSETEFLLSACETDENETLDY  
EEFVKRFHEPAKDIGFNAVLLTNLSEHMPNDTRLQTFLELAESVLNYFPFLGRIEIMG  
SAKRIERVYFEISESSRTQWEKPQVKESKRQFIFDVVNEGGEKEKMELVNFCEDTIFEM

QLAAQISEDLNERSANKEESEKERPEEQGPRMAFFSILTVRSALFALRYNILTLMRMLS  
LKSLKKQMKKVKKMTVKDMVTAFSSYSIFMTLLHFVASVFRGFFRIICSLLLGGSLVE  
GAKKIKVAELLANMPDPTQDEVRGDGEEGERKPLEAALPSEDLTDLKELTEESDLLSDIF  
GLDLKREGGQYKLIPHNPNAGLSLMSNPVPMPEVQEKFEQKAKEEEEEKEETKSEPE  
KAEGEDGEKEEKAKEDKKGKQLRQLHTRYGEPEVPESAFWKKI IAYQQKLLNYFARNFY  
NMRMLALFVAFAINFILLFYKVSTSSVVEGKELPTRSSSENAKVTSLDSSSHRI IAVHYV  
LEESSGYMEPTLRILAILHTVISFFCIIGYCYCLKVPLVIFKREKEVARKLEFDGLYTEQ  
PSEDDIKGQWDLVINTQSFNNYWDKFVKRKVMDKYGEFYGRDRISELLGMDKAALDFS  
DAREKKPKKDSSLSAVLNSIDVYQMWKLGVVFTDNSFLYLAWYMTMSVLGHYNNFFFA  
AHLLDIAMGFKTLRTILSSVTHNGKQLVLTVGLLAVVVYLYTVVAFNFRKFYKSEDGD  
TPDMKCDDMLTCYMFHMYGVGRAGGGIGDEIEDPAGDEYEIYRIIFDITFFFVIVILLA  
IIQGLIIDAFGELRDQQEQVKEDMETKCFICGIGNDYFDTVPHGFETHLQEHNLANYLF  
FLMYLINKDEHTGQESYVWKMYQERCWEFFPAGDCFRKQYEDQLN

>sp|Q96BU1|S1PBP\_HUMAN S100P-binding protein OS=Homo sapiens GN=S100BP PE=1 SV=1

MMCSRVPSEQSSGTSLLPKDGAPFSWDSLDEGLDDSLLESEGEEDGDVNYTEEEIDA  
LLKEDDPSYEQSSGEDDGHHVEKGERGSQILLDTPREKNSSSYSLGPVAETPDLFKLPQLS  
TSSGHGPAHTKPLNRRSVLEKNLIKVTVPFNPVCDALLDKDETDSSKDTEKLSLSEE  
MREDGLSPNESKLCTESEGISPNNSAWNGPQLSSSNNFQQTVDKNMPDSENPTSVFSR  
ISDHSETPNMELSCRNGGSHKSSCEMRSLVSTSSNKQDVLNKDSGKMKGHERRLGKVIP  
VLQTKTRTNVPTFSQSNLEQQKQLYLRSVIAHIEDPEDTNQGISGELCALMDQVHHMQHS  
KWQHPSDLTTRNYARRQKHLQRYSLTQWVDNRMRSHHRFQRLPDFSYS

>sp|P21453|S1PR1\_HUMAN Sphingosine 1-phosphate receptor 1 OS=Homo sapiens GN=S1PR1 PE=1  
SV=2

MGPTSVPLVKAHRSSVSDYVNYDIIVRHYNYTGKLNISADKENSIKLTSVVFILICCFII  
LENIFVLLTIWTKKFHRPMMYFIGNLALSDLLAGVAYTANLLLSGATTYKLTPAQWFLR  
EGSMFVALSASVFSLLAIAIERYITMLKMKLHNGSNNFRLFLISACWVISLILGGLPIM  
GWNCISALSSCSTVLPYHKHYILFCTTVFTLLLLSIVILYCRIYSLVRTRSRLTFRKN  
ISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDVGCKVKTCILFRAEYFLVLA  
VLNSGTNPIIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIAGMEFSRSKSDNSSH  
PQKDEGDNPETIMSSGNVNSSS

>sp|Q4U2R8|S22A6\_HUMAN Solute carrier family 22 member 6 OS=Homo sapiens GN=SLC22A6 PE=1  
SV=1

MAFNDLLQQVGGVGRFQQIQVTLVVLPLLLMASHNTLQNFTAAIPTHHCRPPADANLSKN  
GGLEVWLPDRDQGPESCLRFTSPQWGLPFLNGTEANGTGATEPCTDGWIYDNSTFPSTI  
VTEWDLVCSHRALRQLAQSLYMGVLLGAMVFGYLADRLGRRKVLILNYLQTAVSGTCAA  
FAPNFPIYCAFRLLSGMALAGISLNCMTLNVEWMPIHTRACVGTIGYVYSLGQFLLAGV  
AYAVPHWRHLQLLVSAFFFAFFIYSWFFIESARWHSSSGRLDLTLRALQRVARINGKREE  
GAKLSMEVLRASLQKELTMGKGQASAMELLRCPTLRHLFLCMLSMLWFATSFAYYGLVMDL  
QGFVSIYLIQVIFGAVDLPALVGVFLVINSLGRPAQMAALLLAGICILLNGVIPQDQS  
IVRTSLAVLGKGLAASFNCIFLYTGELYPTMIRQTGMGMGSTMARVGSIVSPLVSMTAE  
LYPSMPLFIYGAVPVAASAVTVLLPETLGQPLPDTVQDLESRWAPTQKEAGIYPRKGKQT  
RQQQEHQKYMVPLQASAQEKNGL

>sp|Q9Y694|S22A7\_HUMAN Solute carrier family 22 member 7 OS=Homo sapiens GN=SLC22A7 PE=1  
SV=1

MGFEELLEQVGGFGPFQLRNVALLALPRVLLPLHFLLPFLAAVPAHRCALPGAPANFSH  
QDVWLEAHLPREPDGTLSSCLRFAYPQALPNTTLGEERQSRGELEDEPATVPCSQGWED  
HSEFSSTIATESQWDLVCEQKGLNRAASTFFFAGVLVGAVAFGYLSDRFGRRRLLLVAYV  
STLVLGLASAAVSVMFAITRTLGSALAGFTIIVMPLELEWLDVEHRTVAGVLSSTFW  
TGGVMLLALVGYLIRDWRWLLAVTLPCAPGILSLWWVPESARWLLTQGHVKEAHRVLLH  
CARLNGRPVCEDSFSQEAVSKVAAGERVVRRPSYDLFRTPLRHISLCCVVVWFGVNFS  
YYGLSLDVSGLG LNVYQTQLLFGAVELPSKLLVYLSVRYAGRRLTQAGTLLGTALAFGTR  
LLVSSDMKSWSTVLAVMGKAFSEAAFTTAYLFTSELYPTVLRQTGMGLTALVGRLGGS  
LAALLDGVWLSLPKLTGGLIALLAAGTALLLPETRQAQLPETIQDVERKSAPTSLQEEE  
MPMKQVQN

>sp|Q96S37|S22AC\_HUMAN Solute carrier family 22 member 12 OS=Homo sapiens GN=SLC22A12  
PE=1 SV=1

MAFSELDDLVGGLGRFQVLQTMALMVSIMWLCTQSMLNFSAAVPSHRCWAPLLDNSTAQ  
ASILGSLSPEALLAISIPPGPNQRPHQCRFRQPPQWQLDPNATATSWSEADTEPCVDGW  
VYDRSIFTSTIVAKWNLVCDSHALKPMAQSIYLAGILVGAAACGPASDRFGRRLLVTSY  
LQMAVMGTAAAFAPAFPVYCLFRFLAFVAGVMMNTGTLLMEWTAARARPLVMTLNSLG  
FSFGHGLTAAVAYGVRDWTLLQLVVSVPFFLCFLYSWWLAESARWLLTGRLDWGLQELW  
RVAAINGKGAVQDTLTPEVLLSAMREELSMGQPPASLGTLRMPGLRFRTCISTLCWFAF  
GFTFFGLALDLQALGSNIFLLQMFIVGVDIPAKMGALLLSHLGRRPTLAASLLLAGLCI  
LANTLVPHMGALRSALAVLGLGGVGAAFTCITYSSELPFTVLRMTAVGLGQMAARGGA  
ILGPLVRLGVHGPWPLLVYGTVPVLSGLAALLLPETQSLPLPDTIQDVQNAVKKATH  
GTLGNSVLKSTQF

>sp|Q96BI1|S22AI\_HUMAN Solute carrier family 22 member 18 OS=Homo sapiens GN=SLC22A18  
PE=1 SV=3

MQGARAPRDQGRSPGRMSALGRSSVILLTYVLAATELTCLFMQFSIVPYLSRKLGLDSIA  
FGYLQTTFGVLQLLGGPVFGRFADQRGARAALTSFLAALALYLLAAASSPALPGVYLL  
FASRLPGALMHTLPAAQMVITDLSAPEERPAALGRLGLCFGVGVILGSLGGTLVSAYGI  
QCPAILAALATLLGAVLSFTCIPASTKGAKTDAQAPLPGGPRASVFDLKAIASLLRLPDV  
PRIFLVKVASNCPTGLFMVMFSIISMDFFQLEAAQAGYLSFFGLLQMTQGLVIGQLSS  
HFSEEVLLRASVLVFIIVGLAMAWMSSVFHFCLLVPGLVFSLCTLNVVTD SMLIKAVSTS  
DTGTMLGLCASVQPLLRTLGPVTGGLLYRSFGVPVFGHVQVAINTLVLLVLWRKMPMPQRK  
DKVR

>sp|A1A5C7|S22AN\_HUMAN Solute carrier family 22 member 23 OS=Homo sapiens GN=SLC22A23  
PE=1 SV=2

MAIDRRREAAGGGPGRQPAPAEENGSLPPGDAAASAPLGGRAGPGGGAETQPLPPLHPGG  
GPHPSCCSAAAAPSLLLLDYDGSVLPFLGGLGGGYQKTLVLLTWIPALFIGFSQFSDSFL  
LDQPNFWCRGAGKGTLAGVTTTGRGGDMGNWTS LPTTPFATAPWEAAGNRSNSSGADGG  
DTPPLSPDPKGDNASNCDCRAWDYGIRAGLVQNVVSKWDLVCDNAWKVHIAKFSLLVGL  
IFGYLITGCIADWVGRRPVLLFSIIFILIFGLTVALSVNVTMFSTLRFEGFCLAGIILT  
LYALRIELCPPGKRMITMVASFVAMAGQFLMPGLAALCRDWQVLQALIICPFLMLLYW  
SIFPESLRWLMATQQFESAKRLILHFTQKNRMNPEGDIKGVIPLEKELSRRPKVCIVK  
VVGTRNLWKNIVLVCVNSLTGYGIHHCFAFSMMGHEVKVPLENFYADYYTTASIALVSC  
LAMCVVRFLGRRGGLLLFMILTALASLLQLGLLNLIGKYSQHPDSGMSDSVKDKFSIAF  
SIVGMFASHAVGSLSVFFCAEITPTVIRCGGLGLVLASAGFGMLTAPIIELHNQKGYFLH

HIIFACCTLICIIICILLPESRDQNLPENISNGEHYTRQPLPHKKGEQPLLTNAELKD  
YSGLHDAAGDTLPEGATANGMKAM

>sp|Q6T423|S22AP\_HUMAN Solute carrier family 22 member 25 OS=Homo sapiens GN=SLC22A25  
PE=2 SV=2

MAFQDLLDQVGGGRFQILQMVFLIMFNVIYHQTQLENFAAFILDHRCVWHILDNDTIP  
DNDPGTLSQDALLRISIPFDSNLRPEKCRRFVHPQWKL IHLNGTFPNTSEPDTPECVDGW  
VYDQSSFPSTIVTKWDLVCESQPLNSVAKFLFMAGMMVGGNLYGHLSDRFGRKFVLRWSY  
LQLAIVGTCAAFAPTILVYCSLRFLAGAATFSIIIVNTVLLIVEWITHQFCAMALTLTLC  
ASIGHTLGSALFVIRDQCILQLVMSAPCFVFFLFSRWLAESARWLI INNKPEEGLKELR  
KAAHRNGMKNAEDILTMEVLKSTMKQEEAAQKKHSLCELLRIPNICKRICFLSFVRFAS  
TIPFWGLTLHLQHLGNNVFLQLTFLGAVTLLANCVAPWALNHMSRRLSQMLLMFLLATCL  
LAIIFVPQEMQTLRVVLTATLGVAASLGITCSTAQENELIPSIIRGRATGITGNFANIGG  
ALASLMMILSIYSRPLPWIIYGVFAILSGLVLLLLPETRNQPLDSIQDVENEGVNSLAA  
PQRSSVL

>sp|Q3KQZ1|S2535\_HUMAN Solute carrier family 25 member 35 OS=Homo sapiens GN=SLC25A35  
PE=2 SV=1

MDFLMSGLAACGACVFTNPLEVVKTRMQLQGELQAPGTYQRHYRNVFHAFITIGKVDGLA  
ALQKGLAPALLYQFLMNGIRLTGYGLAEAGGYLHTAEGTHSPARSAAAGAMAGVMGAYLG  
SPIYMKVTHLQAQAASEIAVGHQYKHQGMFQALTEIGQKHGLVGLWRGALGGLPRVIVGS  
STQLCTFSSTKDLSQWEIFPPQSWKLALVAAMMSGIAVVLAMAPFDVACTRLYNQPTDA  
QGGKGLMYRGILDALLQTARTEGIFGMYGIGASYFRLGPHTILSLFFWDQLRSLYYTDTK

>sp|Q3SY17|S2552\_HUMAN Solute carrier family 25 member 52 OS=Homo sapiens GN=SLC25A52  
PE=2 SV=2

MIDSEAHEKRPPILTSSKQDISPHITNVGEMKHYLCGCCAAFNNVAITYPIQKVLFRQQL  
YGIKTRDAVLQLRRDGRNLYRGILPPLMQKTTTALMFGLYEDLSCLLRKHVRAPEFAT  
HGVAAVLAGTAEAIPTPLERVQTLQNHKHHDKFTNTYQAFKALKCHGIGEYYRGLVPIL  
FRNGLSNVLFGLRGPKEHLPTATTHSAHLVNDFIGGGLGAMLGFLCFPINVVKTRLQ  
SQIGGEFQSFQVFKIWLERDRKLINLFRGAHLNYHRSLISWGIINATYEFLLKFI

>sp|Q8NG04|S2610\_HUMAN Solute carrier family 26 member 10 OS=Homo sapiens GN=SLC26A10  
PE=2 SV=1

MRLDLASLMSAPKSLGSAFKSWRLDKAPSPQHTFPSTSIPGMAFALLASVPPVFGLYTSF  
FPVLIYSLLGTGRHLSTGTFAILSLMTGSAVERLVPEPLVGNLSGIEKEQLDAQRVGAA  
AVAFGSGALMLGMFVLQLGVLSTFLSEPVVKALTSGAALHVLLSQLPSLLGLSLPRQIGC  
FSLFKTLASLLTALPRSSPAELTISALSALLVPVKELNVRFRDRLPTIPGEVVLVLLA  
SVLCFTSSVDTRYQVQIVGLLPGGFPPQLLPNLAELPRILADSLPIALVSFAVSASLASI  
HADKYSYTIDSNQEFLAHGASNLISLFCFPNSATLATNLLVDAGGKTQLAGLFSCTV  
VLSVLLWLGPFFYYLPKAVLACINISSMRQVFCQMQLPQLWHISRVDLFLQVPGLCILS  
YPTPLYFGTRGQFRCNLEWHLGLGEKEKTSKPDGPMVAVAEPRVVVLDVSGVTFADAA  
GAREVVQVRERLASRCRDARIRLLLAQCNALVQGTLTRVGLLDRVTPDQLFVSVQDAAAY  
ALGSLLRGSSTRSGSQEALGCGK

>sp|Q9H2B4|S26A1\_HUMAN Sulfate anion transporter 1 OS=Homo sapiens GN=SLC26A1 PE=1 SV=2

MDESPEPLQQGRGPVPRRQRPAPRGLREMLKARLWCSCSCSVLCVRALVQDLLPATRWL  
RQYRPREYLAGDVMSGLVIGIILVPQAIAYSLLAGLQPIYSLYTSFFANLIYFLMGTSRH  
VSVGIFSLCLMVGQVVDRELQLAGFDPSQDGLQPGANSSTLNLSAAMLDCGRDCYAIRV



ATALTMTGLYQVLMGVRLRGFVSAYLSQPLLDGFAMGASVTILTSQKHLVGVRIPRHQ  
GPGMVVLTWLSLLRGAGQANVCDVVTSTVCLAVLLAAKELSDRYRHRLRVPLPTELLVIV  
VATLVSHFGQLHKRFGSSVAGDIPTGFMPPQVPEPRLMQRVALDAVALALVAAAFSISLA  
EMFARSHGYSVRANQELLAVGCCNVLP AFLHCFATSAALAKSLVKTATGCRTQLSSVVS  
TVVLLVLLALAPLFHDLQRSVLACVIVVSLRGALRKVWDLPRWLWRMSPADALVWAGTAAT  
CMLVSTEAGLLAGVILSLLSLAGRTQRPRTALLARIGDTAFYEDATEFEGLVPEPGVRVF  
RFGGPLYANKDFFLQSLYSLTGLDAGCMAARRKEGGSETGVGEGGPAQGEDLGPVSTRA  
ALVPAAAGFHTVVIDCAPLLFLDAAGVSTLQDLRRDYGALGISLLACCSPPVRDILSRG  
GFLGEGPGDTAEELFLSVHDAVQTARARHRELEATDAHL

>sp|P50443|S26A2\_HUMAN Sulfate transporter OS=Homo sapiens GN=SLC26A2 PE=1 SV=2

MSSESKEQHNVSPRDSAEGNDSYPSGIHLELQRESSTDFKQFETNDQCRPYHRILIERQE  
KSDTNFKEFVIKKLQKNCQSPAKAKNMILGFLPVLQWLPKYDLKKNILGDVMSGLIVGI  
LLVPQSIAYSLLAGQEPVYGLYTSFFASIIYFLLGTSRHISVGIFGVLCMIGETVDREL  
QKAGYDNAHSAPSLGMVSNGSTLLNHTSDRICDKSCYAIMVGSTVTFIAGVYQVAMGFFQ  
VGFVSVYLSALLSGFVTGASFTILTSQAKYLLGLNLPRTNVGSLLITTWIHVFRNIHKT  
NLCDLITSLLCLLVLLPTKELNEHFKSKLKAPIPIELVVVAATLASHFGKLHENYNSSI  
AGHIPTGFMPPKVPENWLIPSAVDAIAISIIIGFAITVSLSEMFADKHGTYTKANQEMYA  
IGFCNIIPSFFHCFTTSAALAKTLVKESTGCHTQLSGVVTALVLLVLLVIAPLFYSLQK  
SVLGVITIVNLRGALRKFRDLPKMWSISRMDTVIWFVTLSSALLSTEIGLLVGVCFISF  
CVILRTQKPKSSLLGLVEESEVFESVSAYKNLQIKPGIKIFRFVAPLYINKECFKSALY  
KQTVNPILIKVAVKKAARKIKKVVTLGGIQDEMSVQLSHDPLELHTIVIDCSAIQFLD  
TAGIHTLKEVRRDYEAIGIQVLLAQCNPTVRDSLNGEYCKKEENLLFYSVYEAMAFAE  
VSKNQKGVCPNGLSLSSD

>sp|Q96G79|S35A4\_HUMAN Probable UDP-sugar transporter protein SLC35A4 OS=Homo sapiens  
GN=SLC35A4 PE=2 SV=1

MSVEDGMPGLGRPRQARWTLMLLLSTAMYGAHAPLLALCHVDGRVPFRPSSAVLLTELT  
KLLLCAFSLLVGWQAWPQGGPPWRQAAPFALSALLYGANNNLVIYLQRYMDPSTYQVLSN  
LKIGSTAVLYCLCLRHRLSVRQGLALLLLMAAGACYAAGGLQVPGNTLPSPPPAAAASPM  
PLHITPLGLLLLILYCLISGLSSVYTELLMKRQRLPLALQNLFLYTFGVLLNLGLHAGGG  
SGPGLLEGFSGWAALVVLSQALNGLMSAVMKHGSSITRLFVVSCSLVNAVLSAVLLRL  
QLTAAFFLATLLIGLAMRLYYGSR

>sp|Q9UN76|S6A14\_HUMAN Sodium- and chloride-dependent neutral and basic amino acid  
transporter B(0+) OS=Homo sapiens GN=SLC6A14 PE=2 SV=1

MDKLKCPSPFFKCREKEKVSASSENHVGENDENQDRGNWSKSDYLLSMIGYAVGLGNVW  
RFPYLTYNNGGAFLIPYAIMLALAGLPLFFLECSLGQFASLGPVSVWRILPLFQGVGIT  
MVLISIFVTIYYNVI IAYS LYMFASFQSELPWKNCSWSKNCSP I VTHCNVSTVNK  
GIQEIIQMKNKSWDINNFTCINGSEIYQPGQLPSEQYWNKVALQRSSGMNETGVIVWYLA  
LCLLLAWLIVGAALFKGIKSSGKVYFTALFPYVLLILLVRGATLEGASKGISYYIGAQ  
SNFTKLKEAEVWKDAATQIFYSLSVAWGGLVALSSYNKFNCFSDAIVVCLTNCLTSVF  
AGFAIFSILGHMAHISGKEVSQVVKSGFDLAFIAYPEALAQLPGGPFWSILFFFMLLTG  
LDSQFASIIETITTTIQDLFPKVMKKMRVPITLGCCLVLFLGLVCVTQAGIYWVHLIDHF  
CAGWGILIAAILELVGIIWIYGGNRFIEDTEMMIGAKRWIFWLWWRACWFVITPILLIAI  
FIWSLVQFHRPNYGAIPYPDWGVALGWCMIVFCIIWIPIMAIKIIQAKGNIFQRLISCC  
RPASNWGPYLEQHRGERYKDMVDPKKEADHEIPTVSGSRKPE

>sp|Q96CW6|S7A60\_HUMAN Probable RNA polymerase II nuclear localization protein SLC7A60S  
OS=Homo sapiens GN=SLC7A60S PE=1 SV=2

MEAARTAVLRVKRKRSAEPAEALVLACKRLRSDAVESAAQKTSEGLERAAENNVFHLVAT  
VCSQEEPVQPLLREVL RPSRDSQQRVRRNLRASAREVRQEGRYRVLSSRRSLGTTSSGQE  
SEYTPGNPEAAGNSGFQLLDLVHEEGEPEAASAGSCKTSDPDVILCNSVELIRERLTVSE  
DGPVRRQEEQKHDDYVYDIYYLETATPGWIENILSVQPYSEQEWELVNDQEPEDIYDDE  
DDENSENNWRNEYP EESSDGEDSRGSADYNSLSEEERGSSRQRMWSKYPLDVQKEFGY  
DSPHDLDSD

>sp|Q15424|SAFB1\_HUMAN Scaffold attachment factor B1 OS=Homo sapiens GN=SAFB PE=1 SV=4

MAETLSGLGDSGAAGAAALSSASSETGTRRLSDLRVIDLRAELRKRNVDSGNKSVLMER  
LKKAIEDEGGNPDEIEITSEGNKTKSRSSKGRKPEEEGVEDNGLEENSGDGQEDVETSL  
ENLQDIDIMDISVLDEAIEDNGSVADCVEDDDADNLQESLSDSRELVEGEMKELPEQLQE  
HAIEDKETINNLDTSSSDFTILQEIEEPSLEPENEKILDILGETCKSEPVKESSELEQP  
FAQDTSSVGPDRKLAEEEDLFD SAHPEEGDLDLASESTAHQSSKADSL LAVVKREPAEQ  
PGDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPEARDSKEDGRKFDFD  
ACNEVPPAPKESSTSEGADQKMSSPEDDSDTKRLSKEEKGRSSCGRNFVWSGLSSTTRAT  
DLKNLFSKYGKVVGAKVVTNARSPGARCYGFTMSTAEATK CINHLHKT E L HGKMISVE  
KAKNEPVGKKTSDKRDSGKKEKSSNSDRSTNLKRDDKCDRKDDAKKGDDGSGEKSQDQD  
DQKPGPSERSRATKSGSRGTERTVMDKSKGVPVISVKTSGSKERASKSQDRKSASREKR  
SVVSFDKVKPRKSRDSESHSRVRERSEREQRMQAQWEREERERLEIARERLAFQRQRLE  
RERMERERLERERMHVEHERRREQERIHREEREELRRQQELRYEQERRPAVRRPYDLDRRD  
DAYWPEAKRAALDERYHSDFNQRDFHDFDHRDRGRYPDHSVDRREGSRSMGREGQHY  
PERHGGPERHGRDSRDGWGGYGSDKRMSEGRGLPPPPRRDWGDHGRREDDRSWQGTADGG  
MMDRDHKRWQGGERSMSGHSGPGHMMNRGMSGRGSFAPGGASRGHP IPHGGMQGGFGGQ  
SRGSRPSDARFTRRY

>sp|Q14151|SAFB2\_HUMAN Scaffold attachment factor B2 OS=Homo sapiens GN=SAFB2 PE=1 SV=1

MAETLPGSGDSGPGTASLPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERL  
KKAVKEEGQDPDEIGIELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDGQEDMEASL  
ENLQNMGMMDMSVLDETEVANSSAPDFGEDGTDGLLDSFCDSKEYVAAQLRQLPAQPPEH  
AVDGEGFKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCKSEPVKESSELEQPF  
AQDTSSVGPDRKLAEEEDLFD SAHPEEGDLDLASESTAHQSSKADSL LAVVKREPAEQP  
GDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPEARDSKEDGRKFDFDA  
CNEVPPAPKESSTSEGADQKMSSFKEEKDIKPIIKDEKGRVGS GSGRNLWVWSGLSSTTRA  
TDLKNLFSKYGKVVGAKVVTNARSPGARCYGFTMSTSD EATK C I SHLHRTELHGRMISV  
EKAKNEPAGKKLSDRKECEVKKEKLSSVDRHHSVEIKIEKTVIKKEEKIEKKEKKPED I  
KKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSRSKERSKSKSQD  
RKSESKEKRDILSFDKIKEQRERERQRQREREIRETERRREREQREREQRLEAFHERKEK  
ARLQRERLQLECQRQLERERMERERLERMRVERERRKEQERIHREEREELRRQQEQLR  
YEQERRPGRPYDLDRRDDAYWPEGKRVAMEDRYRADFPRPDHRFHD F DHRDRGQYQDHA  
IDRREGSRPMMGDHRDGQHYGDDRHHGGPPERHGRDSRDGWGGYGSDKRLSEGRGLPPP  
PRGGRDWGEHNQRLEE HQARAWQGAMDAGAASREHARWQGGERGLSGPSGPGHMASRGGV  
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPPPPYPHFTRRY

>sp|Q5K651|SAMD9\_HUMAN Sterile alpha motif domain-containing protein 9 OS=Homo sapiens  
GN=SAMD9 PE=1 SV=1

MAKQLNLPENTDDWTKEVDNQWLESHKIDQKHREILTEQDVNGAVLKWLKKEHLVDMGIT  
HGPAIQIEELFKELRKTAIEDSIQTSKMGKPSKNAPKDQTVSQKERRETSKQKQKGKENP  
DMANPSAMSTTAKGSKSLKVELIEDKIDYTKERQPSIDLTCVSYPFDEFSPYRYKLDIFS  
LQPETGPGNLIDPIHEFKAFTNTATATEEDVKMKFSNEVFRFASACMNSRTNGTIHFGVK  
DKPHGKIVGIKVTNDTKEALINHFNLINKYFEDHQVQQAKKCIREPRFVEVLLPNSTLS  
DRFVIEVDIIPQFSECQYDYFQIKMQNYYNKIWEQSKKFSLFVRDGTSSKDITKNKVDFR  
AFKADFKTLAESRKAAEEKFRAKTNKKEREGPKLVKLLTGNQDLLDNSYYEQYILVTNKC  
HPDQTKHLDLKEIKWFAVLEFDPESNINGVVKAYKESRVANLHFPSVYVEQKTTPTNETI  
STLNLVHQPSWIFCNGRLDLDESKYKPFDPSSWQRERASDVRKLISFLTHEDIMPRGKFL  
VVFLLSSVDDPRDPLIETFCAFYQDLKGMENILCICVHPHIFQGWKDLLEARLIKHQDE  
ISSQCISALSLEEINGTILKLSVTQSSKRLPSIGLSTVLLKKEEDIMTALEIICENEC  
EGTLLEKDKNKFLFKASKEEDFYRGKVSWWNFYFSSESYSPPFVKRDKYERLEAMIQN  
CADSSKPTSTKIHLHYHHPGCGGTTLAMHILWELRKKFRCAVLKNKTVDFSEIGEQTSL  
ITYGAMNRQEYVPVLLLVDDEEQDNVYLLQYSIQTAIAKKYIRYEKPLVIIILNCMRSQN  
PEKSARIPDSIAVIQQLSPKEQRAFELKLKEIKEQHKNFEDFYFSMIMKTNFNKEYIENV  
VRNILKGQNIFTKEAKLFSFLALLNSYVPDTTISLSQCEKFLGIGNKKAFFWGTEKFEDKM  
GTYSTILIKTEVIECGNYCGVRIIHSLIAEFSLEELKKSYYHLNKSQIMLDMLTENLFFDT  
GMGKSKFLQDMHTLLLTRHRDEHEGETGNWFSPFIEALHKDEGNEAVEAVLLESIHFRNP  
NAFICQALARHFYIKKKDFGNALNWAQAKIIEPDNSYISDTLGQVYKSKIRWWIEENG  
NGNISVDDLIALLDLAEHASSAFKESQQQSEDREYEVKERLYPKSKRRYDTYNIAGYQGE  
IEVGLYTIQILQLIPFFDNKNELSKRYMVNFVSGSSDIPGDPNNEYKLALKNYIPYLT  
KFSLKKSFDFFDEYFVLLKPRNNIKQNEEAKTRRKVAGYFKKYVDIFCLLEESQNN  
TGLGSKFSEPLQVERCRRNLVALKADKFSGLLEYLIKQEDAISTMKCIVNEYTFLEQCTVKI  
QSKEKLNFIILANIILSCIQPTSRLVKPVEKLDQLREVLQPIGLTYQFSEPYFLASLLFW  
PENQQLDQHSEQMKEYAALKNFSGQYKMHRTKQPIAYFFLGKGRLERLVHKGKIDQ  
CFKKTDPDINSLWQSGDVWKEEKVQELLLRLQGRAENNCLYIEYGINEKITIPITPAFLGQ  
LRSGRSIEKVSFYLGFSIGGPLAYDIEIV

>sp|Q9Y6B6|SAR1B\_HUMAN GTP-binding protein SAR1b OS=Homo sapiens GN=SAR1B PE=1 SV=1  
MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPT  
SEELTIAGMTFTTDFDLGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMT  
DETIANVPILILGNKIDRPEAISEERLREMFGLYGQTTGKGSISLSELNARPLEVFMCSV  
LKRQGYGEGFRWMAQYID

>sp|Q6SZW1|SARM1\_HUMAN Sterile alpha and TIR motif-containing protein 1 OS=Homo sapiens  
GN=SARM1 PE=1 SV=1

MVLTLLLSAYKLCRFFAMSGPRPGAERLAVPGPDGGGGTGPWWAAGGRGPREVSPGAGTE  
VQDALERALPELQQALSALKQAGGARAVGAGLAEVFQLVEEAWLLPAVGREVAQGLCDAI  
RLDGGDLDLLRLQLAPELETRVQAARLLEQILVAENRDRVARIGLVILNAKEREPEL  
ARSVAGILEHMFKHSEETCQRLVAAGGLDAVLYWCRTDPALLRHCALALGNCALHGGQA  
VQRRMVEKRAEWFPLAFSKEDELLRLHACLAVAVLATNKEVEREVERSGTLALVEPLV  
ASLDPRGFARCLVDASDTSQGRGPDDLQRLVPLLDNRLEAQCIGAFYLCAEAAIKSLQG  
KTKVFSDIGAIQSLKRLVSYSTNGTKSALAKRALRLLGEEVPRPILPSVPSWKEAEVQTW  
LQQIGFSKYCESFREQQVDGDLRLTEEELQTDLGKMSGITRKRFFRELTELKTFANYS  
TCDRSNLADWLGLDPRFRQYTYGLVSCGLDRSLLHRVSEQQLLEDCGIHLGVHRARILT  
AAREMLHSPLPCTGGKPSGDTDPVFI SYRRNSGSQLASLLKVHLQLHGFVSFIDVEKLEA

GKFEDKLIQSVMGARNFVLVLSPGALDKCMQDHDCKDWHKEIVTALSCGKNIVPIIDGF  
EWPEPQVLPEDMQAVLTFNGIKWSHEYQEATIEKIIRFLQGRSSRDSSAGSDTSLEGAAP  
MGPT

>sp|P21673|SAT1\_HUMAN Diamine acetyltransferase 1 OS=Homo sapiens GN=SAT1 PE=1 SV=1  
MAKFVIRPATAADCSDILRLIKELAKYEYMEEQVILTEKDLEDGFGHEHPFYHCLVAEVP  
KEHWTPEGHSIVGFAMYYFTYDPWIGKLLYLEDDFFVMSDYRGFGIGSEILKNLSQVAMRC  
RCSSMHFLVAEWNEPSINFYKRRGASDLSSEEGWRLFKIDKEYLLKMATEE

>sp|Q9UPW6|SATB2\_HUMAN DNA-binding protein SATB2 OS=Homo sapiens GN=SATB2 PE=1 SV=2  
MERRSESPCLRDSPDRRSGSPDVKGPPPVKVARLEQNGSPMGARGRPNGAVAKAVGGLMI  
PVFCVVEQLDGSLEYDNREEHAEFVLVRKDVLFSQLVETALLALGYSHSSAAQAQGIKIL  
GRWNPLPLSYVTDAPDATVADMLQDVYHVVTLKIQLQSCSKLEDLPAEQWNHATVRNALK  
ELLKEMNQSTLAKECPLSQSMISSIVNSTYYANVSATKCQEFGRWYKKYKKIKVERVERE  
NLSDYCVLGQRPMHLPNMNQLASLGKTNEQSPHSQIHSTPIRNQVPALQPIMSPGLLSP  
QLSPQLVRQQIAMAHLINQQIAVSRLLAHQHPQAINQQFLNHPPIPRAVKPEPTNSSVEV  
SPDIYQQVRDELKRASVSQAVFARVAFNRTQGLLSEILRKEEDPRTASQSLLVNLRAMQN  
FLNLPEVERDRIYQDERERSMNPVNSMVSSASSSPSSSRTPQAKTSTPTDLPKVDGAN  
INITAAIYDEIQQEMKRAKVSQALFAKVAANKSQGWLCELLRWKENPSPENRTLWENLCT  
IRRFLNLPQHERDVIYEEESRHHHSERMQHVVQLPPEPVQVLHRQQSQPAKESSPPREEA  
PPPPPTEDSCAKKPRSRTKISLEALGILQSFIDHVGLYPDQEAHTLSAQLDLPKHTII  
KFFQNRQYHVKHGKLKEHLGSAVDVAEYKDEELLTESEENDSEEGSEEMYKVEAEEENA  
DKSKAAPAEIDQR

>sp|O14828|SCAM3\_HUMAN Secretory carrier-associated membrane protein 3 OS=Homo sapiens  
GN=SCAMP3 PE=1 SV=3

MAQSRDGGNPFAEPSELNPFQDPAVIQHRPSRQYATLDVYNPFETREPPPAYEPPAPAP  
LPPPSAPSLQPSRKLSPTPKNYGSYSTQASAAAATAELLKKQEELNRKAEELDRREREL  
QHAALGGTATRQNNWPPLPSFCVPQPCFFQDISMEIPQEFQKTVSTMYLWMCSTLALLL  
NFLACLASFCVETNNGAGFGLSILWVLLFTPCSFVCWYRPMYKAFRSDSSFNFFVFFIF  
FVQDVLVFLQAIGIPGWGFSGWISALVVPKGNTAVSVLMLLVALLFTGIAVLGIVMLKRI  
HSLYRRTGASFQKAQQEFAAGVFSNPAVRTAAANAAAGAAENAFRAP

>sp|Q8TAC9|SCAM5\_HUMAN Secretory carrier-associated membrane protein 5 OS=Homo sapiens  
GN=SCAMP5 PE=1 SV=1

MAEKVNFPPLPKFIPLKPCFYQDFEADIPPQHVSMTKRLYYLWMLNSVTLAVNLVGCLA  
WLIGGGGATNFGLAFLWLILFTPCSYVCWFRPIYKAFKTDSSFSFMAFFFTFMAQLVISI  
IQAVGIPGWGVCWGIATISFFGTNIGSAVVMLIPTVMFTVMAVFSFIALSMVHKFYRGSG  
GSFSKAQEEWTTGAWKNPHVQAAQNAAMGAAQGAMNQPTQYSATPNYTYSNEM

>sp|Q9Y6X3|SCC4\_HUMAN MAU2 chromatid cohesion factor homolog OS=Homo sapiens GN=MAU2 PE=1  
SV=2

MAAQAAAAAQAQAQAQAQAADSWYLALLGFAEHFRTSSPPKIRLCVHCLQAVFPFKPP  
QRIEARTHLLGSLVYHHTKNSEQARSHLEKAWLISQQIPQFEDVKFEASLLSELYCQE  
NSVDAAKPLLRKAIQISQQTPYWHCRLLFQLAQLHTLEKDLVSACDLLGVGAEYARVVG  
EYTRALFLLSKGMLLLMERKLQEVHPLLTLGGQIVENWQGNPIQKESLRVFFLVLVQVTHY  
LDAGQVKSVKPCCLKQCCIQTISTLHDEILPSNPADLFHWLPKEHMCVLVYLVTVMHS  
MQAGYLEKAQKYTDKALMQLEKLMKMLDCSPILSSFQVILLEHIIMCRLVTGHKATALQEI  
SQVCQLCQQSPRLFSNHAAQLHTLLGLYCVSVNCMDNAEAQFTTALRLTNHQELWAFIVT

NLASVYIREGNRHQEVLYSLLERINPDHSFPVSSHCLRAAAFYVRGLFSFFQGRYNEAKR  
FLRETLKMSNAEDLNRLTACSLVLLGHIFYVLGNHRESNNMVPAMQLASKIPDMSVQLW  
SSALLRDLNKACGNAMDAHEAAQMHQNFSSQQLLDHIEACSLPEHNLITWTDGPPPVQFQ  
AQNGPNTSLASLL

>sp|P21583|SCF\_HUMAN Kit ligand OS=Homo sapiens GN=KITLG PE=1 SV=1

MKKTQTWILTICIYLLQLLFNPLVKTEGICRNRVTNNVKDVTCLVANLPKDYMITLKYPVG  
MDVLPSHCWISEMVLSDSLTDLDDKFSNISEGLSNYSIIDKLVNIVDDLVECVKENS  
KDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSSTLSPEKDSRVSVT  
KPFMLPPVAASSLRNDSSSSNRKAKNPPGDSLSLHWAAMALPALFSLIIGFAFGALYWKKR  
QPSLTRAVENIQINEEDNEISMLQEKEREFEV

>sp|P13521|SCG2\_HUMAN Secretogranin-2 OS=Homo sapiens GN=SCG2 PE=1 SV=2

MAEAKTHWLGAALSLIPLIFLISGAEAASFQRNQLQKEPDLRLENVQKFPSPEMIRALE  
YIENLRQQAHKKEESSPDYNPYQGVSVPLQQKENGDESHLPERDSLSEEDWMRIILEALRQ  
AENEPQSAPKENKPYALNSEKNFPMDSDDYETQQWPERKLKHMQFPPMYEENSNDNPFK  
RTNEIVEEQYTPQSLATLESVFQELGKLTGPNNQKRERMDEEQKLYTDEDDIYKANNIA  
YEDVVGGEDWNPVEEKIESQTQEEVRDSKENIEKNEQINDEMKRSGQLGIQEEDLRKESK  
DQLSDDVSKVIAYLKRLVNAAGSGRLQNGQNGERATRLFEKPLDSQSIYQLIEISRNLQI  
PPEDLIEMLKTGEKPNGSVEPERELDLPVDLDDISEADLDHPDLFQNRMLSKSGYPKTPG  
RAGTEALPDGLSVEDILNLLGMESAAQKTSYFPNPYNQEKVLPRLPYGAGRSRSNQLPK  
AAWIPIHVENRQMAYENLNDKDQELGEYLARMLVKYPEIINSNQVKRVPQGGSSEDDLQEE  
EQIEQAIKEHLNQSSQETDKLAPVSKRFPVGPPKNDDTPNRQYWEEDLLMKVLEYLNQE  
KAEKGREHIAKRAMENM

>sp|Q96NL6|SCLT1\_HUMAN Sodium channel and clathrin linker 1 OS=Homo sapiens GN=SCLT1 PE=1  
SV=2

MAAEIDFLREQNRRLNEDFRRYQMESFSKYSSVQKAVCQGEQDDTFENLVFDQSFLAPLV  
TEYDKHLGELNGQLKYYQKQVGEMKLQLENIKENERLHSELKDAVEKKLEAFPLGTEVG  
TDIYADDETVRNQLQELQLANQEKTAVELWQTVSQELDRHLKLYQEHMTEAQIHVFESQ  
KQKQDLFDQQLTKQLHVTNENMEVTNQQLKTVTEQSVIEQLRKLRQAKLELRVAVA  
KVEELTNVTEDLQGMKKKEKDVSVAHGREASDRRLQLQSSIKLEIRLCVTIQEANQ  
LRTENTHLEKQTRQLQACNELENERYEIVRARNMQLLLEANLQKSQALLEEKQKEED  
IEKMKETVSRFVQDATIRTKKEVANTKKQCNIQISRLTEELSALQMECAEKQGGQIERVIK  
EKKAVEEELEKIYREGRGNESDYRKLEEMHQRFVRSERKDDLQLRLTRAENRIKQLETD  
SSEEISRYQEMIQLQNVLESERENCGLVSEQRLKLQENKQLRKETESLRKIALEAQQK  
AKVKISTMEHEFSIKERGFEVQLREMDSNRNSIVELRHLLATQQAANRWKEETKKLTE  
SAEIRINNLSKELSRQKLHTQELLSQLEMANEKVAENEKLEHHEKANRLQRRLSQAE  
RAASASQQLSVITVQRRKAASLMNLENI

>sp|QOVDG4|SCRN3\_HUMAN Secernin-3 OS=Homo sapiens GN=SCRN3 PE=1 SV=1

MEPFCDTFVALPPATVDNRIIFGKNSDRLYDEVQEVVYFPAVVHDNLGERLKCTYIEID  
QVPETYAVVLSRPAWLWGAEMGANEHGVCIGNEAVWGREEVCDEEALLGMDLVRLGLERA  
DTAEKALNVIVDLLEKYGGGNGCTEGRMVFSYHNSFLIADRNEAWILETAGKYWAAEKVQ  
EGVRNISNQLSITTKIAREHPDMRNYAKRKGWWDGKKEFDFAAAYSYLDTAKMMTSSGRY  
CEGYKLLNKHKGNIPTFETMMEILRDKPSGINMEGEFLTASMSILPQDSSLPCIHFFTG  
TPDPERSVFKPFIIVPHISQLLDTSSPTFEEDLVKKKSHFKPDRRHPLYQKHQQALEV  
NNNEEKAKIMLDNMRKLEKELFREMESILQNKHLVDEKIVNLPQCTKDEIQIYQSNLSV

KVSS

>sp|P18827|SDC1\_HUMAN Syndecan-1 OS=Homo sapiens GN=SDC1 PE=1 SV=3

MRRAALWLWLCALALSLQPALPQIVATNLPPEDQDGSDDSDNFSGSGAGALQDITLSQQ  
TPSTWKDTQLLTAIPTSPEPTGLEATAASTSTLPAGEGPKGEAVVLPEVEPGLTAREQE  
ATPRPRETTQLPTTHLASTTTATTAQEPATSHPHRDMQPGHHETSTPAGPSQADLHTPHT  
EDGGPSATERAAEDGASSQLPAAEGSGEQDFTFETSGENTAVVAVEPDRRNQSPVDQGAT  
GASQGLLDRKEVLGGVIAGGLVGLIFAVCLVGFMLYRMKKKDEGSYSLEEPKQANGGAYQ  
KPTKQEEFYA

>sp|075056|SDC3\_HUMAN Syndecan-3 OS=Homo sapiens GN=SDC3 PE=1 SV=2

MKPGPPHAGAAHGAGAGAGAAAAGPGARGLLLPPLLLLLLAGRAAGAQWRSENFERPVD  
LEGSGDDDSFPDDELDDLYSGSGSGYFEQESGIETAMRFPDVALAVSTTPAVLPTTNIQ  
PVGTPFEELPSEPTLEPATSPVVTEVPPEEPSQRATTVSTTMATTAATSTGDP TVATVP  
ATVATATPSTPAAPPFTATTAVIRTTGVRRLPLPLTTVATARATTPEAPSPPTTAAVLD  
TEA TPRLVSTATSRPRALPRATTQEPDIPERSTLPLGTTAPGPTEVAQTPTPETFLT  
IRDEPEVPVSGGSGDFELPEEETTQPDANEVAVGGAAAKASSPPGTLPGARPGPGL  
LDNAIDSGSSAAQLPQKSILERKEVLVAVIVGGVVGALFAAFLVTLLIYRMKKKDEGSYT  
LEEPKQASVTYQKPKDKQEEFYA

>sp|P31431|SDC4\_HUMAN Syndecan-4 OS=Homo sapiens GN=SDC4 PE=1 SV=2

MAPARLFALLLFFVGGVAESIRETEVIDPQDLLEGYFSGALPDDEDVVGPGQESDDFEL  
SGSGDLDDLED SMIGPEVVHPLVPLDNHUPERAGSGSQVPTEPKKEENEVIPKRISPVE  
ESEDVSNKVSMSSTVQGSNIFERTEVLAALIVGGIVGILFAVFLILLMYRMKKKDEGSY  
DLGKKPIYKKAPTNEFYA

>sp|Q86SQ7|SDCG8\_HUMAN Serologically defined colon cancer antigen 8 OS=Homo sapiens  
GN=SDCCAG8 PE=1 SV=1

MAKSPENSTLEEILGQYQRSREHASRSIHQLTCALKEGDVTIGEDAPNLSFSTSVGNED  
ARTAWPELQQSHAVNQLKDLLRQQADKESEVSPSRRRKMSPRSLEHEETNMPTMHDLVH  
TINDQSQYIHHLEAEVKFCKEELSGMKNKIQVVVLENEGLQQQLKSQRQEETLREQTLTD  
ASGNMHNSWITTGEDSGVGETSKRPFSDNADFGKAASAGEQLELEKLKLYEEKCEIEE  
SQLKFLRNDLAEYQRTCEDLKEQLKHKEFLAANTCNRVGGLCLKCAQHEAVLSQHTNV  
HMQTIERLVKERDDLMSALVSVRSSLADTQQREASAYEQVKQVLQISEEANFEKTKALIQ  
CDQLRKELERQAERLEKELASQKEKRAIEKDMMKKEITKEREYMGSKMLILSQNIAQLEA  
QVEKVTKEKISAINQLEEIQSQLASREMDVTKVCGEMRYQLNKTNMEKDAAKEHREFRA  
KTNRDLEIKDQIEKLRIELDSEKQHLQEQQKAALAREECLRLTELLGESEHQLHLTRQ  
EKDSIQQSFSKEAKAALQAQREQELTQKIQQMEAQHDKTENEQYLLLT SQNTFLTKLK  
EECCTLAKKLEQISQKTRSEIAQLSQEKRYTYDKLGKLQRRNEELEEVCVQHGRVHETMK  
QRLRQLDKHSQATAQQLVQLLSKQNLQLLERQSLSEEVDRLRTLPSMPQSDC

>sp|Q9NZV5|SELN\_HUMAN Selenoprotein N OS=Homo sapiens GN=SEPN1 PE=1 SV=5

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QELALKTLGTDGLFLFSSLDTDGDMYISP EEFKPIAEKLTGSCSVTQTGVQWCSHSSLQP  
QLPWLNUSSCLSLRSTPAASCEEEELPPDPSEETLTIEARFQPLL PETMTKSKDGFLGV  
SRLALSGLRNWTAAASPSAVFATRHFQPFPPPGQELGEPWWIIPSELSMFTGYLSNNRF  
YPPPPKGKEVI IHRLLSMFHPRPFVKTRFAPQGAVACLT AISDFYYTVMFRIHAEFQLSE  
PPDFPFWFSPAQFTGHIILSKDATHVRDFRLFVPNHRSLNVDMEWLYGASESSNMEVDIG  
YIPQMELEATGPSVPSVILDEDGSMIDSHLPSGEPLQFVFEEIKWQELSWEEAARRLEV

AMYPFKKVSYPFTEAFDRAKAENKLVHSILLWGALDDQSCUGSGRTLRETVLESSPILT  
LLNESFISTWSLVKELEELQNNQENSSHQKLAGLHLEKYSFPVEMMICLPNGTVVHHINA  
NYFLDITSVKPEEIESNLSFSSTFEDPSTATYMQFLKEGLRRGLPLLQP

>sp|095025|SEM3D\_HUMAN Semaphorin-3D OS=Homo sapiens GN=SEMA3D PE=2 SV=2

MNANKDERLKARSQDFHLFPALMMLSMTMLFLPVTGTLKQNPRLKLTyKDLLSNSCIP  
FLGSSEGLDFQTLLLDEERGRLLLGAKDHIFLLSLVDLNKNFKKIYWPAAKERVERLCKLA  
GKDANTECANFIRVLQPYNKTHIYVCGTGAFHPICGYIDLGVYKEDIIFKLDTHNLESGR  
LKCPFDPPQPFASVMTDEYLYSGTASDFLGKDTAFTRSLGPTHDDHYIRTDISEHYWLN  
AKFIGTFFIPDTYNPDDDKIYFFFRESSQEGSTSDKTILSRVGRVCKNDVGGQRSLINKW  
TTFLKARLICSIPGSDGADTYFDELQDIYLLPTRDERNPVYGVFTTSSIFKGSAVCVY  
SMADIRAVFNGPYAHKESADHRWVQYDGRIPYPRPGTcpsktyDPLIKSTRDFPDDVISF  
IKRHSVMYKSVYPVAGGPTFKRINVDYRLTQIVVDHVIAEDGQYDVMFLGTDIGTVLKVV  
SISKEKWNMEEVVLEELQIFKHSSIILNMELSLKQQQLYIGSRDGLVQLSLHRCDTYGKA  
CADCCCLARDPYCAWDGNACSRyAPTSKRARRQDVKYGDPITQCWDIEDSISHETADEKV  
IFGIEFNSTFLECIpKSQQATIKWYIQRSGDEHREELKPDERI IKTEYGLLIRSLQKKDS  
GMYCYCAQEHTFIHTIVKLTLNVIENEQMENTQRAEHEEGVKDLLAESRLRYKDYIQIL  
SSPNFSLDQYCEQMWHREKRRQRNKGGPKWKHMQEMKKRNRHHRDLDELPRAVAT

>sp|Q9NTN9|SEM4G\_HUMAN Semaphorin-4G OS=Homo sapiens GN=SEMA4G PE=1 SV=1

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LEEASARLLVGARGALFSLSANDIGDGAHKEIHWEASPEMQSKCHQKGKNNQTECFNHVR  
FLQRLNSTHLYACGTHAFQPLCAAIDAEFTLPTSFEEGKEKCPYDPARGFTGLIIDGGL  
YTATRYEFRSIPDIRSRPHSLRTEETPMHWLNDAEFVFSVLVRESKASAVGDDDKVYY  
FFTERATEEGSGSFTQSRSSHRVARVARVCKGDLGGKKILQKKWTSFLKARLICHIPLYE  
TLRGVCSLDAETSSRTHFYAAFTLSTQWKTLEASAIcryDLAEIQAVFAGPYMEYQDGSR  
RWGRYEGGVPEPRPGSCITDSLRSQGYNSSQDLPSLVLDfVKLHPLMARPVVPTRGRPLL  
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ENLVISLLQHSlyVGAPSGVIQLPLSSCSRYRSCYDCILARDPYCGWDPGTHACAAATTI  
ANRTALIQDIERNRGCESSRDTGPPPLKTRSVLRGDDVLLPCDQPSNLARALWLLNGS  
MGLSDGQGGYRVGVDGLLVTDaQPEHSGNYGCYAEENGLRTLLASYSLTVRPATPAPAPK  
APATPGAQLAPDVRLLYVLAIAALGGLCLILASSLLYVACLREGRRGRRRKYSLGRASRA  
GGSavQLQTVSGQCpGEDEGDDEGAGGLEGSCLQIIPGEGAPAPPPPPPPPPAELTNG  
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>sp|Q9H2E6|SEM6A\_HUMAN Semaphorin-6A OS=Homo sapiens GN=SEMA6A PE=1 SV=2

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IKVLLKKNDdALFVCGTNAFNpSCRNYKMDTLEPFGDEFSGMARCPYDAKHANVALFADG  
KLYSATVTDFLAIDAVIYRSLGESPTLRTVKHDSKWLKEPYFVQAVDYGDYIYFFFREIA  
VEYNTMGKVVFPRVAQVCKNDMGGSQRVLEKQWTSFLKARLNCsvPGDSHFYFNILQAVT  
DVIRINGRDVVLATFSTPYNSIPGSavCAYDMLDIASVFTGRFKEQKSPDSTWTPVPDER  
VPKPRPGCCAGSSSLERYATSNEFPDDTLNFikTHPLMDEAVPSIFNRPWFLRTMVRYRL  
TKIAVDTAAGPYQNHTVVFLGSEKGIILKFLARIGNSGFLNDSLFLLEEMSVYNSEKCSYD  
GVEDKRIMGMQLDRASSLYVAFSTCVIKVPLGRceryGKCKKTCIASRDPYCGWikeGG  
ACSHLSPNSRLTFEQDIERNGTDLGdCHNSFVALNGHSSSLLPSTTTSDSTAQEGYESR  
GGMLDWKHLLDSPDSTDPLGAVSSHNHQDKKGVIRESYLKGHdQLVPVTLLAIAVILAFV

MGAVFSGITVYCVCDHRRKDVAVVQRKEKELTHSRGSMSSVTKLSGLFGDTQSKDPKPE  
AILTPLMHNGKLATPGNTAKMLIKADQHHLDTALPTPESTPTLQQKRKPSRGSREWERN  
QNLINACTKDMPPMGSPVIPTDLPLRASPSHIPSVVVLPIITQQGYQHEYVDQPKMSEVAQ  
MALEDQAATLEYKTIKEHLSSKSPNHGVNLVENLDSLPPKVPQREASLGPPGASLSQTGL  
SKRLEMHSSSYGVYDKRSYPTNSLTRSHQATTLKRNTNSSNSSHLNRNQSFGRGDNPP  
PAPQRVDSIQVHSSQPSGQAVTVSRQPSLNAYNSLTRSGLKRTPSLKPDPVPPKPSFAPLS  
TSMKPNDACT

>sp|Q9H3T3|SEM6B\_HUMAN Semaphorin-6B OS=Homo sapiens GN=SEMA6B PE=1 SV=4

MQTPRASPPRPALLLLLLLLGGAGHLFPEEPPPLSVAPRDYLNHYVVFVSGSGPGRLLTAE  
GADDLNIQRVLRVNRTLFIGDRDNLRYVELEPPTSTELRYQRKLTWRSNPSDINVCRMKG  
KQEGECRNFVKVLLLRDESTLFVCGSNFNPVCANYSIDTLQPVGDNISGMARCPYDPKH  
ANVALFSDGMLFTATVTDFLAIDAVIYRSLGDRPTLRTVKHDSKWFKEPYFVHAVEWGSH  
VYFFFREIAMEFNYLEKVVVSRVARVCKNDVGGSPRVLEKQWTSFLKARLNCSVPGDSHF  
YFNVLQAVTGVVSLGGRPVVLAVFSTPSNSIPGSAVCAFDLTQVAAVFEGRFREQKSPES  
IWTVPEDQVPRPRPGCCAAPGMQYNASSALPDDILNFVKTHPLMDEAVPSLGHPWILR  
TLMRHQLTRVAVDVGAGPWGNQTVVFLGSEAGTVLKFLVRPNASTSGTSGLSVFLEEFET  
YRPDRCGRPGGETGQRLLSLELDAASGGLLAAPRCVVRVPVARCQQYSGCMKNCIGSQ  
DPYCGWAPDGSCIFLSPGTAAFEQDVSGASTSGLGDCTGLLRASLEDRAGLVSVNLLV  
TSSVAAFVVGAVVSGFSVGWVGLRERRELARRKDKEAILAHGAGEAVLSVSRLGERRAQ  
GPGGRGGGGGGGAGVPPEALLAPLMQNGWAKATLLQGGPHDLDSGLLPTPEQTPLPQKRL  
PTPHPPHALGPRAWDHGHPLLPASASSLLLLAPARAPEQPAPGEPTPDGRLYAARPG  
RASHGDFPLTPHASPDRRRVVSAPTGPLDPASAADGLPRPWSPPPTGSLRRPLGPHAPPA  
ATLRRTHTFNSGEARPGDRHRGCHARPGTDLAHLLPYGGADRTAPPVP

>sp|Q8NCE0|SEN2\_HUMAN tRNA-splicing endonuclease subunit Sen2 OS=Homo sapiens GN=TSEN2  
PE=1 SV=2

MAEAVFHAPKRRRVYETYESPLPIPFQDGHGPKLKEFKIFRAEMINNVIVRNAEDIEQL  
YGKGYFGKGILSRSPSFTISDPKLVAKWKDMKTNMPIITSKRYQHSVEWAAELMRRQGQ  
DESTVRRILKDYTKPLEHPPVKRNEEAQVHDKLNSGMVSNMEGTAGGERPSVVNGDSGKS  
GGVGDPREPLGCLQEGSGCHPTTESFEKSVREDASPLPHVCCCKQDALILQRGLHHEDGS  
QHIGLLHPGDRGPDHEYVLVEEAECAMSEREAPNEELVQRNRLICRRNPYRIFEYLQLS  
LEEAFLLVYALGCLSIYYEKEPLTIVKLWKAFTVVQPTFRTTYMAYHYFRSKGWVPKVG  
KYGTDLLLYRKGPFFYHASYSVIIELVDDHFEGSLRRPLSWKSLAALSRVSVNVSKELML  
CYLIKPSTMTDKEMESPECMKRIKVQEVILSRWVSSRERSDQDDL

>sp|Q7Z6J9|SEN54\_HUMAN tRNA-splicing endonuclease subunit Sen54 OS=Homo sapiens GN=TSEN54  
PE=1 SV=3

MEPEPEPAAVEVPAGRVLSARELFAARSRSQKLPQRSHGPKDFLPDGSAQAERLRRCRE  
ELWQLLAEQRVERLGSVAAEWPEEGFVELKSPAGKFWQTMGFSEQGRQLHPPEALYL  
LECGSIHLFHQDLPLSIQEAYQLLLTDHTVTFLQYQVFSHLKRLGYVVRRFPSSVLSPY  
ERQLNDASVQHLEDGDGKRKRSSSSPRSINKKAKALDNSLQPKSLAASSPPPCSQPSQC  
PEEKQPESSPMKPGPGPFQLLGSLGPSGPAREGVGCSWESGRAENGVTGAGKRRWNFEQ  
ISFPNMASDSRHTLLRAPAPPELLPANVAGRETDAESWCQKLNQRKEKLSRREREHHAEAA  
QFQEDVNADPEVQRCSSWREYKELLQRRQVQRSQRRAPHLWGQPVTPLLSPGQASSPAVV  
LQHISVLQTTPLPDGGARLLEKSGGLEIFDVYQADAVATFRKNNPGKPYARMCISGFDE  
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>sp|Q9POU3|SEN1\_HUMAN Sentrin-specific protease 1 OS=Homo sapiens GN=SEN1 PE=1 SV=2  
MDDIADRMMDAGEVTLVNHNSVFKTHLLPQTGFPEQQLSLSDQQILSSRQGHLD RSFTC  
STRSAAYNP SYSDNPSSDSFLGSGDLRTFGQSANGQWRNSTPSSSSSLQKSRNSRSLYL  
ETRTSSGLSNSFAGKSNHHCHVSAYEKSFP IKVPSPSWSGSCRRSLLSPKKTQRRHVS  
TAEETVQEEEREIYRQLLMVTGKQFTIAKPTTHFPLHLSRCLSSSKNTLKDSL FKN GNS  
CASQIIIGSDTSSSGSASILTNQEQLSHSVYSLSSYTPDVAFGSKDSGTLHHPHHHHSVPH  
QPDNLAASNTQSEGS DSVILLKV KDSQTPTPSSTFFQ AELWIKELTSVYDSRARERLRQI  
EEQKALALQLQNRLQEREHSVHDSVELHLRVPLEKEIPVTVVQETQKKGHKLT DSEDEF  
PEITEEMEKEIKNVFRNGNQDEV LSEAFRLTITRKDIQTLNHLNWLND E I INFYMNLM E  
RSKEKGLPSVHAFNTFFFTKLKTAGYQAVKRWTKKVDVFSVDILLVPIHLGVHWCLAVVD  
FRKKNIITYDSMGGINNEACRILLQYLKQESIDKKRKEFD TNGWQLFSKKSQEIPQQMNG  
SDCGMFACKYADCITKDRPINF TQQHMPYFRKRMVWEILHRKLL

>sp|Q96HI0|SEN5\_HUMAN Sentrin-specific protease 5 OS=Homo sapiens GN=SEN5 PE=1 SV=3  
MKKQRKILWRKG IHLAFSEKWN TFGGFKFYFHQHL CILKAKLGRPVTWNRQLRHFQGR  
KKALQIQKTWIKDEPLCAKTKFN VATQNVSTLSSKVKRKDAKHFISSSKTLLRLQAEKLL  
SSAKNSDHEYCREKNLLKAVTDFPSNSALGQANGHRPRTDPQPSDFPMKFNGESQSPGES  
GTIVVTLNNHKKRGFCYGCCQGP EHRNGGPLIPKKFQLNQHRRIKLSPLMMYEKLSMIR  
FRYRILRSQHFR TSKSVCKLRKAQRSWVQKVTGDH QETRRENGEGGSCSPFSPPEPKDPS  
CRHPYFPDMDSSAVVKG TNSHVPDCHTKGSSFLGKELSLDEAFPDQQNGSATNAWDQSS  
CSSPKWECTELI HDIPLPEHRSNTMFISETEREIMTLGQENQTSSVSDDR VKLSVSGADT  
SVSSVDGPVSQKAVQ NENSYQMEEDGSLKQSILSSELLDHPYCKSPLEAPLVCSGLKLEN  
QVGGGKNSQKASPV DDEQLSVCLSGFLDEV MKKYGSLVPLSEKEVLGRLKDVFNEDFSNR  
KPFINREITNYRARHQKCNFRIFYNK HMLDMDLATLDGQNWLN DQVINMYGELIMDAVP  
DKVHFFNSFFHRQLVTKGYNGVKRWTKKVDL FKKSLLLIP IHLVHWSLITVTL SNRIIS  
FYDSQGIHFKFCVENIRKYL L TEAREKNRPEFLQGWQTAVTKCIPQQKNDSDCGVFLQY  
CKCLALEQPFQFSQEDMPVRVKRIYKELCECRLMD

>sp|Q9GZR1|SEN6\_HUMAN Sentrin-specific protease 6 OS=Homo sapiens GN=SEN6 PE=1 SV=2  
MAAGKSGGSAGEITFLEALARSESKRDGGFKNNWSFDHEEESEGD TDKDGTNLLSVDEDE  
DSETSKGKKLNRRSEIVANSSGEFILKTYVRRNKSESFKTLKGNPIGLNMLSNNKKLSEN  
TQNTSLCSGTVVHGRRFFHHAHAQIPVVKTAAQSSLD R KERKEYPPHVQKVEINPVRLSRL  
QGVERIMKKTEESESQVEPEIKRKVQQRHCS TYQPTPPLSPASKKCLTHLEDLQRNCRQ  
AITLNESTGPLLR TSIHQNSGGQKSQNTGLTTKKFYGNNEKVPIDIIVNCDDSKHTYLQ  
TNGKVILPGAKIPKITNLKERKTSLSDLNDPIILSSDDDDNDRTNRRESISPQPADSAC  
SSPAPSTGKVEAALNENTCRAERELRSIPEDSELNTVTLPRKARMKDQFGNSIINTPLKR  
RKVFSQEPPDALALSCQSSFD SVILNCRSIRVGTLFRLLIEPVIFCLDFIKIQLDEPDHD  
PVEIILNTSDLTKCEWCNVRKLPVVFLQAIPAVYQKLSIQLQMNKEDKVWNDCKGVNKL T  
NLEEQYIILIFQNGLDPPANMV FESIINEIGIKNNISNFFAKIPFEEANGRLVACTRTYE  
ESIKGSCGQKENKIKTVSFESKIQLRSKQEFQFFDEEEETGENHTIFIGPVEKLIVYPPP  
PAKGGISVTNEDLHCLNEGEFLNDVIIDFYLKYL VLEK LKEDADRIHIFSSFFYKRLNQ  
RERRNHETT NLSIQKQRHGRVKTWTRHVDIFEKDFIFVPLNEAAHWFLAVVCFPGLEKPK  
YEPNPHYHENAVIQKCTVEDSCISSASEMESCSQNSSAKPV IKMLNKKHCIAVIDSN  
PGQEESDPRYKRNICSVKYSVKKINH TASENEEFNKGESTSQKVADRTKSENGLQNESLS  
STHTDGLSKIRLNYSD ESPEAGKMLEDEL VDFSEDQDNQDDSSDDGFLADDNCSSEIGQ  
WHLKPTICKQPCILLMDSLGRPSRSNVVKILREYLEVEWEVKKGSKR SFSKDV MKGSNPK

VPQQNNFSDCGVYVLQYVESFFENPILSFELPMNLANWFPPPRMRTKREEIRNIILKLQE  
DQSKEKRKHKDTYSTEAPLGEGETEQVNSISD

>sp|Q8WYR4|RSPH1\_HUMAN Radial spoke head 1 homolog OS=Homo sapiens GN=RSPH1 PE=1 SV=1

MSDLGSEEELEEGENDIGEYEGGRNEAGERHGRGRARLPNGDTYEGSYEFGKRHGQGIYK  
FKNGARYIGEYVRNKKHGQGTFIYPDGSRYEGEWANDLRHGHGVYYYINNDTYTGEWFAH  
QRHGQGTLYLAETGSKYVGTWVNGQQEGTAELIHLNHRVQKFLNKNPVGPGKYVFDVGC  
EQHGEYRLTDMERGESEEEEEELVTVPKWKATQITELALWPTLPKKTSTDGPGQDAPG  
AESAGEPGEEAQUALLEGFEGEMDMRPGDEDADVLRRESREYDQEEFRYDMDEGNINSEEE  
ETRQSDLQD

>sp|Q9H1X1|RSPH9\_HUMAN Radial spoke head protein 9 homolog OS=Homo sapiens GN=RSPH9 PE=1  
SV=1

MDADSLLLSLELASGSGQGLSPDRRASLLTSLMLVKRDYRYDRVLFWGRILGLVADYYIA  
QGLSEDQLAPRKTLVSLNCTEWSLLPPATEEMVAQSSVVKGRFMGDPSEYEHTELQKVN  
EGEKVFEEIEIVVQIKEETRLVSVIDQIDKAVAIIPRGALFKTPFGPTHVNRTFEGLSLSE  
AKKLSSYFHFREPVELKNKTLLEKADLDPSLDFMDSLEHDIPKGSWSIQMERGNALVVLRL  
SLLWPGLTIFYHAPRTKNYGYVYVGTGEKNMDLPFML

>sp|Q2IOM5|RSP04\_HUMAN R-spondin-4 OS=Homo sapiens GN=RSP04 PE=1 SV=2

MRAPLCLLLLVAHAVDMLALNRRKKQVGTGLGGNCTGCIICSEENGCSCTCQRLFLFIRR  
EGIRQYKCLHDCPPGYFGIRGQEVNRCKKCGATCESCFSDFCIRCKRQFYLYKGKCLP  
TCPPGTLAHQNTRECQGECELGWGGWSPCTHNGKTCGSAWGLESRVREAGRAGHEEAAT  
CQVLESERKCPPIRQPCGERSPGQKKGRKDRRPRKDRKLDRLDVRPRQPGLQP

>sp|Q9Y3D3|RT16\_HUMAN 28S ribosomal protein S16, mitochondrial OS=Homo sapiens GN=MRPS16  
PE=1 SV=1

MVHLTTLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPRDGRFVEQLGSYDPLPNS  
HGEKLVALNLDRIHWIGCGAHL SKPMEKLLGLAGFFPLHPMMITNAERLRRKRAREVLL  
ASQKTDAEATDTEATET

>sp|Q9BY42|RTF2\_HUMAN Protein RTF2 homolog OS=Homo sapiens GN=RTFDC1 PE=1 SV=3

MGCDGGTIPKRHELKVGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKD  
AVIEFLLDKSAEKALGAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQARFI  
CPVVGLEMNGRHRFCFLRCCGCVFSERALKEIKAEVCHTCGAAFQEDDVIMLNGTKEDVD  
VLKTRMEERRLRKLEKKTTPKAAESVSKPDVSEEAPGSPKVKTKGPEEASLDSREKKT  
NLAPKSTAMNESSSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT  
HTSYCF

>sp|O75298|RTN2\_HUMAN Reticulon-2 OS=Homo sapiens GN=RTN2 PE=1 SV=1

MGQVLPVFAHCKEAPSTASSTPDSTEGNDDSDFRELHTAREFSEEDDEETTSQDWGTPR  
ELTFSYIAFDGVVSGGRRDSTARRPRPQGRSVSEPRDQHPQPSLGDSLESIPSLSQSPE  
PGRRGDPDTAPPSERPLEDLRLRLDHLGWVARGTSGEDSSTSSSTPLEDEEPQEPNRLE  
TGEAGEELDLRLRLAQSSPEVLTPQLSPGSGTPQAGTPSPSRSDSNSGPEEPLLEEEE  
KQWGPLEREPVRGQCLDSTDQLEFTVEPRLLGTAMEWLKTSLLLAVYKTVPILELSPPLW  
TAIGWVQRGPTPTPVLRLVLLKWAKSPRSSGVPSLSLGADMGSKVADLLYWKDTRTSGVV  
FTGLMVSLLCLLHFSIVSVAHLALLLLCGTISLRVYRKVLQAVHRGDGANPFQAYLDVD  
LTLTREQTERLSHQITSRVVSAAATQLRHFFLVEDLVDSLKLALLFYILTFVGAI FNGLTL  
LILGVIGLFTIPLLYRQHQAIQYVGLVTNQLSHIKAKIRAKIPGTGALASAAA AVSGS  
KAKAE

>sp|095197|RTN3\_HUMAN Reticulon-3 OS=Homo sapiens GN=RTN3 PE=1 SV=2

MAEPSAATQSHSISSSSFGAEPSPAGGGGSPGACPALGTKSCSSSCADSFVSSSSSQPVS  
LFSTSQEGLSSLCSDEPSSEIMTSSFLSSSEIHNTGLTILHGEKSHVLGSQPILAKEGKD  
HLDLLDMKKMEKPPQGTNNVSDSSVSLAAGVHCDRPSIPASFPEHPAFLSKKIGQVEEQI  
DKETKNPNGVSSREAKTALDADDRFTLLTAQKPPEYSKVEGIYTYSLSPSKVSGDDVIE  
KDSPEPFEVIIDKAAFDKEFKDSYKESTDDFGSWSVHTDKESSEDISETNDKLFPLRNK  
EAGRYPMSALLSRQFSHTNAALEEVSRCVNDMHNFTNEILTWDLVPQVKQQTDKSSDCIT  
KTTGLDMSEYNSEIPVVNLKTSHTQKTPVCSIDGSTPITKSTGDWAEASLQQENAITGKP  
VPDSLNSTKEFSIKGVQGNMQKQDDTLAELPGSPPEKCDSLGSGVATVKVVLPPDHLKDE  
MDWQSSALGEITEADSSGESDDTVIEDITADTSFENNKIQAEPVSIPSAVVKTGEREIK  
EIPSCEREKTSKNFEELVSDSELHQDQPDILGRSPASEAACSKVPDTNVSLEDVSEVAP  
EKPITTENPKLPSTVSPNVFNTEFSLNVTTSAYLES LHGKNVKHIDDSSPEDLIAAFTE  
TRDKGIVDSERNAFAKISEKMTDFKTTTPPEVLHENESGGSEIKDIGSKYSEQSKETNGS  
EPLGVFPTQGTPVASLDLEQEQLTIKALKELGERQVEKSTSAQRDAELPSEEVLKQTFTF  
APESWPQRSYDILERNVKNGLGSLGSKPITIRETTRVDVSSSLKTELVKKHVLARLLT  
DFSVHDLIFWRDVKKTGFGVFGTLLIMLLSLAAFSVISVSYLILALLSVTISFRIYKSVI  
QAVQKSEEGHPFKAYLDVDITLSSEAFHNYMNAAMVHINRAKLIIRLFLVEDLVDSLKL  
AVFMWLMTYVGAVFNGITLLILAELLIFSVPIVEKYKTQIDHYVGIARDQTKSIVEKIQ  
AKLPGIAKKKAE

>sp|P08621|RU17\_HUMAN U1 small nuclear ribonucleoprotein 70 kDa OS=Homo sapiens GN=SNRNP70  
PE=1 SV=2

MTQFLPPNLLALFAPRDPIPYLPPLEKLPHEKHNNPYCGIAPYIREFEDPRDAPPPTRA  
ETREERMERKRREKIERRQQEVETELKMWDPHNDPNAQGDAFKTLFVARVNYDTTESKLR  
REFEVYGPRIKRIHMVYSKRSGKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLVDVER  
GRTVKGWRPRRLGGGLGGRGGADVNIHSGRDDTSRYDERPGSPPLPHRDRDRDRERE  
RRERSRERDKERERRRSRDRRRRSRSDKEERRRSRERSKDKDRDRKRRSSRSRERAR  
RERERKEELRGGGDMAPSEAGDAPPDDGPPGELGPDGPDGPEEKGRDRDRERRRSHRS  
ERERRDRDRDRDRDREHKRGERGSEGRDEARGGGGGQDNGLEGLGNDSRDMYMESEGG  
DGYLAPENGYLMEAAPE

>sp|P09234|RU1C\_HUMAN U1 small nuclear ribonucleoprotein C OS=Homo sapiens GN=SNRPC PE=1  
SV=1

MPKFYCDYCDTYLTHDSPSVRKTHCSGRKHKENVKDYYQKWEEQAQSLIDKTTAAFQQG  
KIPPTPFSAPPPAGAMIPPPPSLPGPPRPGMMPAPHMGGPPMMPMMGPPPPGMPVGPAP  
GMRPPMGHMPMMPGPPMMRPPARPMMPVTRPGMTRPDR

>sp|Q66K80|RUAS1\_HUMAN Putative uncharacterized protein RUSC1-AS1 OS=Homo sapiens  
GN=RUSC1-AS1 PE=5 SV=1

MEPGGSENAALWIEGGRGPRGPGPEWTSRSLLPQSGPALQPTPYSQRKGPRETHPDA  
LKGGGGWGWGNTQSLSGECKGVGAGEEKDGAAVSLSTPHLLAASAGLQAPASPLGTAVC  
PFSPHSSPSFSHHRTLSLFIAPLSCPAPRAQVHRSTPMGRALLTRVLEPLRPWACPR  
LPRSPPGAQSGRGGALAQPTLRCAAAPLRAWAWRSSDPPPAFSVFCHPPRGFDIS

>sp|Q13761|RUNX3\_HUMAN Runt-related transcription factor 3 OS=Homo sapiens GN=RUNX3 PE=1  
SV=2

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DHAGELVRTDSPNFLCSVLPSHWRCNKTLPVAFKVVALGDVPDGTVVTVMAGNDENYSAE

LRNASAVMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPTQVATYHRAIKVTVDGPREP  
 RRRHRQKLEDQTKFPDRFGDLERLRMRVTPSTSPRGSLSTTSHFSSQPQTPIQGTSELN  
 PFSDPRQFDRSFPTLPTLTESRFPDRMHYPGAMSAAFPYSATPSGTSISSLSVAGMPAT  
 SRFHHTYLPPYPGAPQNGSGPFQANPSPYHLYGTSSGSYQFSMVAGSSSGDRSPTRM  
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 >sp|P62308|RUXG\_HUMAN Small nuclear ribonucleoprotein G OS=Homo sapiens GN=SNRPG PE=1  
 SV=1  
 MSKAHPPELKKFMDKKLSLKLNGGRHVQGILRGFDPFMNLVIDECVEMATSGQQNNIGMV  
 VIRGNSIIMLEALERV  
 >sp|Q9Y2V3|RX\_HUMAN Retinal homeobox protein Rx OS=Homo sapiens GN=RAX PE=1 SV=2  
 MHLPGCAPAMADGFSLAGHLLRSPGGSTSLRLHSIEAILGFTKDDGILGTFAERGARGA  
 KERDRRLGARPACPKAPEEGSESPPPAPAPAPEYEAPRPYCPKEPGEARPSPLPVGPA  
 TGEAKLSEEEQPKKKHRRNRRTFTTYQLHELERAFAEKSHYPDVYSREELAGKVNLPVVRV  
 QVWFQNRRAKWRRQEKLEVSSMKLQDSPLLSFSRSPPSATLSPLGAGPGSGGGPAGGALP  
 LESWLGPPPLGGGATALQSLPGFGPPAQSLPASYPPTPPPPPPFLNSPPLGPGLQPLAPPP  
 PSYPCGPGFGDKFPLDEADPRNSSIAALRLKAKEHIQAIGKPWQAL  
 >sp|P31151|S10A7\_HUMAN Protein S100-A7 OS=Homo sapiens GN=S100A7 PE=1 SV=4  
 MSNTQAERSIIGMIDMFHKYTRDDKIEKPSLLTMMKENFPNFLSACDKKGTNYLADVFE  
 KKDKNEDKKIDFSEFLSLLGDIATDYHKQSHGAAPCSGGSQ  
 >sp|Q96H78|S2544\_HUMAN Solute carrier family 25 member 44 OS=Homo sapiens GN=SLC25A44  
 PE=2 SV=1  
 MEDKRNIQIIEWEHLDKKKFYVFGVAMTMMIRVSVYPFTLIRTRLQVQKGKSLYHGTFDA  
 FIKILRADGITGLYRGFLVNTFTLISGQCYVTTYELTRKFVADYSQSNVTKSLVAGGSAS  
 LVAQSITVPIDVVSQHLMMQRKGEKMGFRQVRGNEGGQGVVAFGQTKDIIRQILQADGLR  
 GFYRGYVASLLTYIPNSAVWWPFYHFAEQLSYLCPKCEPHIVFQAVSGPLAAATASILT  
 NPMDVIRTRVQVEGKNSIILTFRQLMAEEGPWGLMKGLSARIISATPSTIVIVVGYESLK  
 KLSLRPELVDSRHW  
 >sp|Q6Q0C1|S2547\_HUMAN Solute carrier family 25 member 47 OS=Homo sapiens GN=SLC25A47  
 PE=2 SV=1  
 MDFVAGAIGGVCVAVGYPLDTVKVRIQTEPKYTGIIWHCVRDYHRERVWGFYRGLSLPV  
 CTVSLVSSVSFGTYRHCLAHCRLRYGNPDAKPTKADITLSGCASGLVRVFLTSPTEVAK  
 VRLQTQTQAQKQRRRLSASGPLAVPPMCPVPPACPEPKYRGPLHCLATVAREEGLCGLYK  
 GSSALVLRDGHSAFYFLSYAVLCEWLSAPAGHSRPDVPGLVAGGCAGVLAWAVATPMDV  
 IKSRLQADGQGQRRYRGLLHCVMTSVREEGPRVLFKGLVLNCCRAFPVNMVVFVAYEAVL  
 RLARGLLT  
 >sp|Q9H1U9|S2551\_HUMAN Solute carrier family 25 member 51 OS=Homo sapiens GN=SLC25A51  
 PE=2 SV=1  
 MMDSEAHEKRPPILTSSKQDISPHITNVGEMKHYLCGCCAAFNNVAITFPIQKVLFRQQL  
 YGIKTRDAILQLRRDGRNLYRGILPPLMQKTTTLALMFGLYEDLSCLLHKHVSAPFAT  
 SGVAAVLAGTTEAIFTPLERVQTLQDHKHHDKFTNTYQAFKALKCHGIGEYYRGLVPIL  
 FRNGLSNVLFGLRGPKEHLPTATTHSAHLVNDVICGGLLGAMLGFLFFPINVVKTRIQ  
 SQIGGEFQSFQVFKIWLERDRKLINLFRGAHLNYHRSLSISWGIINATYEFLLKVI  
 >sp|Q5H9E4|S2553\_HUMAN Solute carrier family 25 member 53 OS=Homo sapiens GN=SLC25A53  
 PE=2 SV=1

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AVSEAVRQLWHEGPQYFYRGIYPPLLSKTLQGTLLFGTYDSLLCFLSPVGPHTLGHRWAA  
GLMSGVVEAVALSPFERVQNVLDGRKQARFPSTFSILKEFNSYGLWGRLSLGYRGFWP  
VLARNSLGSALYFSKDPIDQGLAEQGLPHWVPALVSGSVNGTITCLVLYPLIVLVANMQ  
SHIGWQNMPSLWASAQDVWNTGRKLLLIIYRGGSLVILRSSVTWGLTTAIHDFLQRKSHS  
RKELKTD

>sp|Q96K37|S35E1\_HUMAN Solute carrier family 35 member E1 OS=Homo sapiens GN=SLC35E1 PE=1  
SV=2

MAAAAVGAGHGAGGPGAASSSGGAREGARVAALCLLWYALSAGGNVNVKILSAFPFPVT  
VSLCHILALCAGLPPLLRARVPPAPPVSGPGSPHPSSGPLLPPRFYPRYVLPLAFGKY  
FASVSAHVSIVKVPVSYAHTVKATMPIWVLLSRIIMKEKQSTKVYLSLPIISGVLLAT  
VTELSFDMWGLVSALAATLCFSLQNIFSKKVLDRSRIHHLRLLNILGCHAVFFMIPTWVL  
VDLSAFLVSSDLTYVYQWPWTLLLLAVSGFCNFAQNVIAFSILNLVSPLSYSVANATKRI  
MVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKER  
HRSPLEKPHNGLLFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

>sp|Q13433|S39A6\_HUMAN Zinc transporter ZIP6 OS=Homo sapiens GN=SLC39A6 PE=1 SV=3

MARKLSVILILTFALSVTNPLHELKAAAFPTTEKISPWNESGINVDLAISTRQYHLQQL  
FYRYGENNSLSVEGFRKLLQNIQIDKIKRIHIIHDDHHDHSDHEHSDHERHSDHEHHSEH  
EHHSDDHSHHSHNHAASGKNKRKALCPDHDSDSSGKDPRNSQGGKAHRPEHASGRRNVKD  
SVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSRVSRLAGRKT  
NESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNILCPAIIINQIDA  
RSCLIHTSEKKAIEPPKTYSLIAWVGGFIAISIIISFLSLLGVILVPLMNRVFFKFLLSF  
LVALAVGTLSGDAFLHLLPHSHASHHHSHSHEEPAMEMKRGPFLSHLSSQNIEESAYFDS  
TWKGLTALGGLYFMFLVEHVLTLIKQFKDKKKKNQKKPENDDDVEIKKQLSKYESQLSTN  
EEKVDTDDRTEGYLRADSQEPSHFDSQQPAVLEEEVMIHAHPQEVYNEYVPRGCKNKC  
HSHFHDTLGQSDDLIHSHHHHHHHHHHHQHHPHSHSQRYSREELKDAGVATLAWMVI  
MGDGLHNFSDGLAIGAAFTGLSSGLSTSVAVFCHELPHELGDFAVLLKAGMTVKQAVLY  
NALSAMLAYLGMATGIFIGHYAENVSMWIFALTAGLFMYVALVDMVPEMLHNDASDHGCS  
RWGYFFLQNAGMLLGFGIMLLISIFEHKIVFRINF

>sp|Q96JT2|S45A3\_HUMAN Solute carrier family 45 member 3 OS=Homo sapiens GN=SLC45A3 PE=2  
SV=1

MVQRLWVSRLLRHRKAQLLLNNLTFGLEVCLAAGITYVPPLLLEVGVEEKFMTMVLGIG  
PVLGLVCVPLLSASDHWRGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDRPL  
ELALLILGVGLLDFCGQVCFTPLEALLSDLFRDPDHCRAQYSVYAFMISLGGCLGYLLPA  
IDWDTALAPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH  
CCPCRARLAFRNLGALLPRLHQLCCRMPTLRRLFVAELCSWMALMTFTLFYTDVGEGL  
YQGVPRAPGTEARRHYDEGVRMGSGLFLQCAISLVFSLVMDRLVQRFGTRAVYLASVA  
AFPVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG  
ASSEDSLMTSFLPGPKPGAPFNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA  
RVVPGRGICLDLAILDSAFLLSQVAPSLFMGSIVQLSQSVTAYMVSAAGLGLVAIYFATQ  
VVFDKSDLAKYSA

>sp|Q6U841|S4A10\_HUMAN Sodium-driven chloride bicarbonate exchanger OS=Homo sapiens  
GN=SLC4A10 PE=2 SV=1

MEIKDQGAQMEPLLPTRNDEEAVVDRGGTRSILKTHFEKEDLEGHRTLFIGVHVPLGGRK

SHRRHRHRGHKHKRDRERDSGLEDGRESFDTSPQRVQFILGTEDDDEEHIPHDLFTE  
LDEICWREGEDAWE RETARWLKFEEDVEDGGERWSKPYVATLSLHSLFELRSCILNGTVL  
LDMHANTLEEIADMVLDQQVSSGQLNEDVRHRVHEALMKQHHQNKKL TNRIPIVRSFA  
DIGKKQSEPN SMDKNAGQVVSQAPACVENKNDVSRENSTVDFSKGLGGQKQGH TSPCG  
MKQRHEKGPPHQQEREVDLHFMKKIPPGAEASNILVGELEFLDRTVVA FVRLSPAVLLQG  
LAEVPIPTRFLFILLGPLGKGQYHEIGRSIATLMTDEVFHDVAYKAKDRNDLVSGIDEF  
LDQVTVLP PGWDPSIRIEPPKNVPSQEKRKIPAVPNGTAAHGEAEPHGGHSGPELQRTG  
RIFGGLILD IKRKAPYFWSDFRDAFSLQCLASFLFLYCACMSPVITFGGLLGEATEGRIS  
AIESLFGASMTGIAYSLFGGQPLTILGSTGPVLVF EKILFKCKEYGLSYLSLRASIGLW  
TATLCIILVATDASSLV CYITRFTEEAFASLICIIFIYEAEKLFELSEAYPINMHNDLE  
LLTQYSCNCVEPHNPSNGTLKEWRESNISASDIIWENLTVSECKSLHGEYVGRACGHDHP  
YVPDVLFWSVILFFSTVTL SATLKQFKTSRYFPTKVR SIVSDFAVFLTILCMVLIDYAIG  
IPSPKLQVPSVFKPTRDDR GWFVTPLGPNPWWTVIAAIIPALLCTILIFMDQQITAVIIN  
RKEHKLKKGCGYHLDLLMVAVMLGVCSIMGLPWFAATVLSITHVNSLKLESECSAPGEQ  
PKFLGIREQRTGLMIFILMGSSVFMTSILKFIPMPVLYGVFLYMGASSLKGIQFFDRIK  
LFWMPAKHQPDFIYLRHVPLRKVHLFTIIQMSCLGLLWIIKVSRAAIVFPMMVLALVFVR  
KLMDLLFTKRELSWLDLMPESKKKKLEDAEKEEEQSMLAMEDEGTVQLPLEGHYRDDPS  
VINISDEMSKTALWRNLLITADNSKDKESSFPSKSSPS

>sp|Q9Y6R1|S4A4\_HUMAN Electrogenic sodium bicarbonate cotransporter 1 OS=Homo sapiens  
GN=SLC4A4 PE=1 SV=1

MEDEAVLDRGASFLKHVCEEEVEGHHTIYIGVHPKSYRRRRRHKRKTGHKEKKEKERI  
SENYSKSDIENADESSSSILKPLISPAERIRFILGEEDDSPAPPQLFTELDELLAVDG  
QEMEWKETARWIKFE EKVEQGERWSKPHVATLSLHSLFELRTCMEKGSIMLDREASSLP  
QLVEMIVDHIETGLLKPELKD KVTYTL LRKHRHQTKKSNL RSLADIGKTVSSASRMFTN  
PDNGSPAMTHRNL TSSSLNDISDKEPDQLKNKFMKKLPRDAEASNVLVGEVDFLDTPFI  
AFVRLQQAVMLGALTEVPVPT RFLFILLGPKGKAKSYHEIGRAIATLMSDEVFHDIA YKA  
KDRHDLIAGIDEFLDEVIVLP PGWDPAIRIEPPKSLPSSDKRKNMYSGGENVQMNGDTP  
HDGGHGGGGHGDCEELQRTGRFCGGLIKDIKRKAPFFASDFYDALNIQALSAILFIYLAT  
VTNAITFGGLLG DATDNMQGVLESFLGTAVSGAIFCLFAGQPLTILSSTGPVLVFERLLF  
NFSKDN NFDYLEFRLWIGLWSAFLCLILVATDASFLVQYFTRFTEEGFSSLISFIFIYDA  
FKKMIKLADYYPINSNFKVGYN TLFSCTCVPPDPANISISNDTTLAPEYLPTMSSTD MYH  
NTTFDWAFLSKKECKSYGGNLVGN CNFVPDITLMSFILFLGTYTSSMALKKFKTSPYFP  
TTARKLISDFAIILSILIFCV IDALVGVDTPKLIVPSEFKPTSPNRGWFVPPFGENPWWV  
CLAAAI PALLVTILIFMDQQITAVIVNRKEHKLKKGAGYHLDLFWVAILMVICSLMALPW  
YVAATVISIAHIDSLKMETETSAPGEQPKFLGVREQRTGTLVFILTGLSVFMAPILKFI  
PMPVLYGVFLYMGVASLNGVQFMDRLKLLMPLKHQPDFIYLRHVPLRRVHLFTFLQVLC  
LALLWILKSTVA AII FPMILALVAVRKGMDYLF SQHDL SFLDDVIPEKD KKKKEDEKKK  
KKKKGSLDSDNDDSDCPYSEKVPSIKIPMDIMEQQPFLSDSKPSDRERSPTFLERHTSC

>sp|Q9NWF4|S52A1\_HUMAN Solute carrier family 52, riboflavin transporter, member 1 OS=Homo sapiens  
GN=SLC52A1 PE=1 SV=2

MAAPTLGRLVLTHLLVALFGMGSWAAVNGI WVLPVVVKDLPEGWSLPSYLSVVVALGNL  
GLLVVTLWRQLAPGKGQVPIQVVQVLSVVG TALLAPLWHHVAPVAGQLHSVAFLTLALV  
LAMACCTSNVTFLPFLSHLPPPF LRSFFLGQGLSALLPCVLALVQGVGRLEC PPAPTNGT  
SGPPLDFPERFPASTFFWALTALLVTSAAAFRGLLLLLPSLPSVT TGGSGPELQLGSPGA

EEEEEEEEALPLQEPPSQAAGTIPGPDPEAHQLFSAHGAFLLGLMAFTSAVTNGVLPSV  
QSFSCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLVGLSLLGMLFGAYLMALA  
ILSPCPPLVGTTAGVVLVVLVSWVLCVFSYVKAASSLLHGGGRPALLAAGVAIQVGS  
LGAGAMFPPTSIYHVFQSRKDCVDPGCP

>sp|Q9NQ40|S52A3\_HUMAN Solute carrier family 52, riboflavin transporter, member 3 OS=Homo sapiens GN=SLC52A3 PE=1 SV=4

MAFLMHLLVCVFGMGSWVTINGLVVELPLLVMELPEGWYLPSTVVIQLANIGPLLVT  
LHHFRPSCLSEVPPIIFTLLGVGTVTCTIIFAFWNMTSWVLDGHHIAFLVLTFFLALVDC  
TSSVTFPLPFMSRLPTYLLTTFVFGELSGLLPALVALAQSGSLTTCNVNTEISDSVPSV  
PTRETDIAQGVPRALVSALPGMEAPLSHLESRYLPAHFSPLVFFLLSIMMACCLVAFFV  
LQRQPRCWEASVEDLLNDQVTLHSIRPREENDLGAGTVDSQGGYLEEKAAPCCPAHL  
AFIYTLVAFVNALTNGLPSVQTYSCLSYGPVAYHLAATLSIVANPLASLVSMFLPNRSL  
LFLGVLSVLGTCTGGYNMAMAVMSPCPLLQGHWGGEVLIVASWVLFSGCLSYVKVMLGVV  
LRDLRSRALLWCGAAVQLGSLLGALLMFPLVNVLRLFSSADFCNLHCPA

>sp|P48066|S6A11\_HUMAN Sodium- and chloride-dependent GABA transporter 3 OS=Homo sapiens GN=SLC6A11 PE=2 SV=1

MTAEKALPLGNGKAAEEARESEAPGGGCSSGGAAPARHPRVKRDKAVHERGHWNKVEFV  
LSVAGEIIGLGNVWRFPYLCYKNGGGAFLIPYVVFICCGIPVFFLETALGQFTSEGGIT  
CWRKVCPLFEGIGYATQVIEAHLNVYIIILAWAIFYLSNCFTELPAWTCGHEWNTENC  
VEFQKLNVSNYSHVSLQNATSPVMEFWEHRVLAISDGEIHGNLRWELALCLLAWTICY  
FCIWKGTSTGKVYVYTATFPYIMLLILLIRGVTLPGASEGIKFYLPDLSRLSDPQVWV  
DAGTQIFFSYAICLGCLTALGSYNNNNCYRDCIMLCCLNSGTSFVAGFAIFSVLGFMA  
YEQGVPIAEVAESGPGAFIAYPKAVTMMPLSPLWATLFFMMLIFLGLDSQFVCVESLVT  
AVVDMYPKVFRRGYRRELLILALSVISYFLGLVMLTEGGMYIFQLFDSYAASGMCLLFVA  
IFECICIGWVYGSNRFYDNIEDMIGYRPPSLIKWCWMIMTPGICAGIFIFFLIKYKPLKY  
NNIYTPAWGYGIGWLMALSSMLCIPLWICITVWKTEGTLPEKLQKLTPSTDLMRGKL  
GVSPRMVTVNDCDAKLKSDGTIAAITEKETHF

>sp|Q96N87|S6A18\_HUMAN Sodium-dependent neutral amino acid transporter B(0)AT3 OS=Homo sapiens GN=SLC6A18 PE=2 SV=2

MAHAPEPDPAACDLGDERPKWDNKAQYLLSCTGFAVGLGNIWRFPYLCQTYGGGAFLIPY  
VIALVFEGIPIFHVELAIGQRLRKGSVGVWTAISPYLSGVGLGCVTSLFLISLYNTIVA  
WVLWYLLNSFQHPLPWSSCPPDLNRTGFVEECQGSSAVSYFWYRQTLNITADINDSGSIQ  
WWLLICLAASWAVVMCVIRGIETTGKVIYFTALFPYLVLTIFLIRGLTLPGATKGLIYL  
FTPNMHILQNPRVWLDAAATQIFFSLSLAFGGHIAFASYNPRNDCQKDAVVIALVNRMTS  
LYASIAVFSVLGFKATNDYEHCLDRNILSLINDFDFPEQSISRDDYPAVLMHLNATWPKR  
VAQLPLKACLEDLFDKSASGPGAFVVFETDLHMPGAPVWAMLFFGMLFTLGLSTMFG  
TVEAVITPLLDVGVLPWVPKEALTGLVCLVCFLSATCFTLQSGNYWLEIFDNFAASPNL  
LMLAFLEVGVVYVYGMKRFCDIAWMTGRRPSPYWRLTWRVVSPLLLTIFVAYIILLFW  
KPLRYKAWNPKYELFPSRQEKLYPGWARAACVLLSLLPVLWVPVAALAQLLTRRRRTWRD  
RDARPDTDMRPDTDRPDTDMRPDTDMR

>sp|Q8N1H7|S60S1\_HUMAN Protein SIX60S1 OS=Homo sapiens GN=SIX60S1 PE=2 SV=2

MNDSLFLVSLDRLLLEFVFQYEQDISTKEEMIQRINKCCEDIKENKVTICRIHETINATDE  
EIDHYCKHSEEIKDNCRNWKPTCDVFRKHEDYMQDQFTVYQGTVKDKEMYHDYICQYKE  
VLKQYQLKYSETPFSREYYEKKREHEEIQSRVLACTEQLKMNETIFMKFRVPAPFPSLTK

WTLNIVNLCETQDILKHSNLTkSSSELKKEVDEMEIEINyLNQQISRHNETKALSETL  
EEKNKNTENRKELKERIFGKDEHVLTLNKTQSSQLFLPYESQKLVRPIKMSSEPRVADI  
KEESSAKQSKLANIDFRQKENDTQIFNDSAVDNHskCSHITTTSSQKFMQVRLLTPQKQ  
SNSNQWSEKGDkDAEYgDKGTVRQVRESKCTSQAIYTEHFgKSVENDSDEVEERAENFPR  
TSEIPIFLGTPKAVKAPESLEKIKFPKTPPFEINRNNAVPEVQTEKESPGLSFLMSYTS  
RSPGLNLFdSSVFDTEISSDQFNEHYSARNLNPLSSEQEIGNLLEKPEGEDGFTFSFSPD  
TSTHTFGAGKDDFSFFSFGGQNSIPSSSLKGFSSSSQNTTQFTFF

>sp|Q8TDM5|SACA4\_HUMAN Sperm acrosome membrane-associated protein 4 OS=Homo sapiens  
GN=SPACA4 PE=1 SV=1

MVLCWLLLLVMALPPGTTGVKDCVFCELTDSMQCPGYMHCGDDEDCFTGHGVAPGTGPV  
INKGCLRATSCGLEEPVSYRGVYSLTTNCCTGRLCNRAPSSQTVGATTSLALGLGMLLP  
PRL

>sp|Q96FV2|SCRN2\_HUMAN Secernin-2 OS=Homo sapiens GN=SCRN2 PE=1 SV=3

MASSSPDPCSCDCFVSVPASAIPAVIFAKNSDRPRDEVQEVVFPAGTHTPGSRLQCT  
YIEVEQVSKTHAVILSRPSWLWGAEMGANEHGVCIGNEAVWTKPEVGEALLGMDLLRL  
ALERSSSAQEALHVITGLLEHYGGGNCLEDAAPFSYHSTFLLADRTEAWVLETAGRLWA  
AQRIQEGARNISNQLSIGTDISAQHPELRTHAQAKGWWDGQGAFDFAQIFSLTQQPVRME  
AAKARFQAGRELLRQRQGGITAeVMMGILRDKESGICMDSGGFRRTASMVSVLPQDPTQP  
CVHFLTATPDPSRSVFKPFIFGMGVAQAPQVLSPTFGAQDPVRTLPRFQTQVDRRHTLYR  
GHQAALGLMERDQDRGQQLQKQKQDLEQEGLEATQGLLAGEWAPPLWELGSLFQAFVKRE  
SQAYA

>sp|Q9NQ03|SCRT2\_HUMAN Transcriptional repressor scratch 2 OS=Homo sapiens GN=SCRT2 PE=2  
SV=3

MPRSFLVKKIKGDFQCSGVPAPTYHPLETAYVLPGARGPPGDNGYAPHRLPPSSYDADQ  
KPGLELAPAEPAYPPAAPEEYSDPESPQSSLSARYFRGEAAVTDYSMDAFFISDGRSRR  
RRGGGGDAGGSGDAGGAGGRAGRAGAAGGGHRHACAECGKTYATSSNLSRHKQTHRSL  
DSQLARKCPTCGKAYVSMPALAMHLLTHNLRHKCGVCGKAFSRPWLLQGHMRSHTGEKPF  
GCAHCGKAFADRSNLRAHMQTHSAFKHYRCRQCDKSFALKSYLHKHCEAACAKAAEPPPP  
TPAGPAS

>sp|Q6IQ49|SDE2\_HUMAN Protein SDE2 homolog OS=Homo sapiens GN=SDE2 PE=1 SV=1

MAEAAALVWIRGPGFGCKAVRCASGRCTVRDFIHRHCQDQNPVENFFVKNGALINTSD  
TVQHGAVYSLEPRLCGGKGGFMSMLRALGAQIEKTTNREACRDLSGRRLRDVNHEKAMAE  
WVKQAEREAKEQKRLERLQRKLVEPKHCFTSPDYQQQCHEMAERLEDSVLKGMQAASS  
KMVSAEISENRKRQWPTKSQTDRGASAGKRRCFWLGMEGLETAEGSNSESSDDSEEAPS  
TSGMGFHAPKIGSNGVEMAAKFPGSQRARVVNTDHGSPEQLQIPVTDSGRHILEDSCAE  
LGESKEHMESRMVTETEETQEKKAESKEPIEEEPTGAGLNKDKETEERTDGERVAEVAPE  
ERENVAVAKLQESQPGNAVIDKETIDLLAFTSVAELELLGLEKLKCELMALGLKCGGTLQ  
ERAARLFSVRGLAKEQIDPALFAKPLKGKKK

>sp|P55735|SEC13\_HUMAN Protein SEC13 homolog OS=Homo sapiens GN=SEC13 PE=1 SV=3

MVSVINTVDTSHEDMIHDAQMDYYGTRLATCSDRSVKIFDVRNGGQILADIADLRGHEGPV  
WQVAWAHPMYGNILASCSYDRKVIIWREENGWEEKSHEHAGHDSSVNSVCWAPHDYGLIL  
ACGSSDGAISLLTYTGEGQWEVKKINNAHTIGCNAVSWAPAVVPGSLIDHPSGQKPNYIK  
RFASGGCDNLIKLWKEEDGQWKEEQKLEAHSDWVRDVAWAPSIGLPTSTIASCSQDGRV  
FIWTCDDASSNTWSPKLLHKFNDVVHVSWSITANILAVSGGDNKVTLWKESVDGQWVCI



SDVNKGQGSVSASVTEGQQNEQ

>sp|Q9H4I8|SEHL2\_HUMAN Serine hydrolase-like protein 2 OS=Homo sapiens GN=SERHL2 PE=2 SV=1

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YVAMDFGGHGLSSHYS PGVPYYLQTFVSEIRRVAALKWNRFSILGHSFGGVVGGMFFCT  
FPFEMVDKILLDTPFLFLESDEMENLLTYKRRATIEHVLQVEASQEPSHVFS LKQLLQRL  
KSNSHLSEECGELLQRGTTKVATGLVLNRDQRLAWAENSIDFISRELCAHSIRKLQAHV  
LLIKAVHGYFDSRQNYSEKESLSFMIDTMKSTLKEQFQFVEVPGNHCVHMSEPQHVASII  
SSFLQCTHMLPAQL

>sp|Q9Y6D0|SELK\_HUMAN Selenoprotein K OS=Homo sapiens GN=SELK PE=1 SV=3

MVYISNGQVLDSRSQSPWRLSLITDFFWGIAEFVVLFFKTLLQQDVKKRRSYGNSSDSRY  
DDGRGPPGNPPRRMGRINHLRGPSPPPMAGGUGR

>sp|Q8WWX9|SELM\_HUMAN Selenoprotein M OS=Homo sapiens GN=SELM PE=1 SV=3

MSLLLPLALLLLAALVAPATAATAYRPDWNRLSGLTRARVETCGGUQLNRLKEVKAFV  
TQDIPFYHNLVMKHLPGADPELVLLGRRYEELERIPLEMTREEINALVQELGFYRKAAP  
DAQVPPEYVWAPAKPPEETSDHADL

>sp|Q9NS98|SEMA3G\_HUMAN Semaphorin-3G OS=Homo sapiens GN=SEMA3G PE=2 SV=1

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MYLDEYRDRLFLGGLDALYSLRLDQAWPDPREVLWPPQPGQREECVRKGRDPLTECANFV  
RVLQPHNRTHLLACGTGAFQPTCALITVGHREGHVHLHLEPGSVESGRGRCPHEPSRPFAS  
TFIDGELYTGLTADFLGREAMIFRSGGPRPALRSDSDQSLLHDPFVMAARIPENSQDN  
DKVYFFFSETVPSPDGGSNHVTVSRVGRVCVNDAGGQRVLVNWKSTFLKARLVCSVPGP  
GAETHFDQLEDVFLWPKAGKSLEVYALFSTVSAVFQGFVAVCYHMADIWEVFNGPF AHR  
DGPQHQQWGPYGGKVPFPRPGVCPSKMTAQPGRPFPGSTKDYPDEV LQFARAHPLMFVPVRP  
RHGRPVLVKTHLAQLHQIVVDRVEAEDGTYDVI FLGTDSGSVLKVIALQAGGSAEPEEV  
VLEELQVFKVPTPITEMEISVKRQMLYVGSRLGVAQLRLHQCETYGTACAECC LARDPYC  
AWDGASCTHYRPSLGKRRFRRQDIRHGPNALQCLGQSQEEEAVGLVAATMVYGT EHNSTF  
LECLPKSPQA AVRWLLQRP GDEGPDQVKTDERVLHTEG LLFRRLSRFDAGTYTCTTLEH  
GFSQTVVRLALVVIVASQLDNLFPPPEPKPEEPPARGGLASTPPKAWYKDILQLIGFANLP  
RVDEYCERVWCRGTTECSGCFRSRSRGKQARGKSWAGLELGKKMKSRVHAEHNRTPREVE  
AT

>sp|Q9NPR2|SEMA4B\_HUMAN Semaphorin-4B OS=Homo sapiens GN=SEMA4B PE=1 SV=3

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HISNYTALLLSRDGRTLYVGAREALFALSSNLSFLPGGEYQELLWGADAEKKQQCSFKGK  
DPQRDCQNYIKILLPLSGSHLFTCGTAAFSPMCTYINMENFTLARDEKGNVLLEDGKGRC  
PFDPNFKSTALVVDGELYTGTVSSFQGN DPAISRSQSLRPTKTESSLNLQDPAFVASAY  
IPESLGS LQGGDDKIYFFFSETGQEF EF FENTIVSRIARICKGDEGGERVLQQRWTSFLK  
AQLLCSRPDGDFPFNVLQDVFTLSPSPQDWRDTLFYGVFTSQWHRGTTEGSAVCVFTMKD  
VQRFVSGLYKEVNRETQQWYTVTHPVPTPRPGACITNSARERKINSSLQLPDRVLNFLKD  
HFLMDGQVRSM LLLQPQARYQRVAVHRVPLHHTYDVLFLGTGDGR LHKAVSVGPRVHI  
IEELQIFSSGQPVQNL LLDTHRGLLYAASHSGVVQVPMANCSLYRSCGDCLLARDPYCAW  
SGSSCKHVSLYQPQLATRPWIQDIEGASAKDLCSASSVSPSFVPTGEKPCEQVQFQPN  
VNTLACPLLSNLATRLWLRNGAPVNASASCHVLP TGDLLLVTGQQLGEGFCWSLEEGFQQ  
LVASYCPEVVEDGVADQTEGGSVPVIIISTSRVSAPAGGKASWGADRSYWKEFLVMCTLF

VLAVLLPVLFLLYRHRNSMKVFLKQGECAVHPKTCPVVLPETRPLNGLGPPSTPLDHR  
GYQSLSDSPPGSRVFTSEKRPLSIQDSFVEVSPVCPRPVRLGSEIRDSVV

>sp|Q9C0C4|SEM4C\_HUMAN Semaphorin-4C OS=Homo sapiens GN=SEMA4C PE=1 SV=2

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NASHLYVCGTYAFQPKCTYVNMLTFTLEHGEFEDGKGKCPYDPAKGHAGLLVDGELYSAT  
LNNFLGTEPIILRNMGPHHSMKTEYLAFWLNPHFVGSAYVPESVGSFTGDDDKVYFFFR  
ERAVESDCYAEQVVARVARVCKGDMGGARTLQRKWTTFLLKARLACSAPNWQLYFNQLQAM  
HTLQDTSWHNTTFFGVFQAQWGDMYLSAICEYQLEEIQRVFEGPYKEYHEEAQKWDRTD  
PVPSRPGSCINWHRRHGYTSSLELPDNILNFVKKHPLMEEQVGPWRSRPLLVKKGTFN  
THLVADRVTLGDGATYTVLFIGTGDGWLLKAVSLGPWWHLIEELQLFDQEPMRSLVLSQS  
KKLLFAGSRSQVLQLPVADCMKYRSCADCVLARDPYCAWSVNTSRCVAVGGHSGSLLIQH  
VMTSDTSGICNLRGSKKVRPTPKNITVVAGTDLVLPCHLSSNLAHARWTFGGRDLPAEQP  
GSFLYDARLQALVMAAQPRHAGAYHCFSEEQARLAAEGYLVAVVAGPSVTLEARAPLE  
NLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGAKATERTLVYPLELPKEPTSPPF  
RPCPEPDEKLWDPVGYYSYDGLKIVPGHARCQPGGGPPSPPGIPGQPLPSPTRLHLGG  
GRNSNANGYVRLQLGGEDRGGLGHPLPELADELRRKLQQRQPLPDSNPEESSV

>sp|O95754|SEM4F\_HUMAN Semaphorin-4F OS=Homo sapiens GN=SEMA4F PE=2 SV=2

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ECHNFVQILAIANASHLLTCGTFAFDPKCGVIDVSRFQQVERLESGRGKCPFEPAQRSAA  
VMAGGVLYAATVKNYLGTETIITRAVGRAEDWIRTDTLPSWLNAPAFVAAVALSPAEWGD  
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EHGRASSVLQDVAVLRPELGAGTPIFYGIFSSQWEGATISAVCAFRPQDIRTVLNGPFRE  
LKHDCNRGLPVVDNDVPQPRPGECITNNMKLRHFGSSLSLPDRVLTIFIRDHPLMDRPVFP  
ADGHPLLVTTDTAYLRVVAHRVTSLSGKEYDVLYLGTEDGHLHRAVRIGAQLSVLEDLAL  
FPEPQPVENMKLYHSWLLVGSRTETVQVNTNCGRLQSCSECILAQDPVCAWSFRLDECV  
AHAGEHRGLVQDIESADVSSLCPKEPGERPVVFEVPVATAAHVVLPCSPSSAWASCVWHQ  
PSGVTALTTPRRDGLEVVVTPGAMGAYACECQEGGAHVVAAYSLVWGSQRDAPSRAHTVG  
AGLAGFFLGILAASLTLILIGRRQRRRQRELLARDKVGLDLGAPPSGTTSYSQDPPSPS  
PEDERLPLALAKRGSGFGGFSPPFLDPCPSPAHIRLTGAPLATCDETSI

>sp|Q02383|SEM2\_HUMAN Semenogelin-2 OS=Homo sapiens GN=SEM2 PE=1 SV=1

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GSFSIQHTYHVDINDHDWTRKSQQYDLNALHKATKSKQHLGGSQQLNLYKQEGRDHDKSK  
GHFHMIVIHKGGAHHGTQNPQDQGNPSGKGLSSQCSNTEKRLVWHGLSKEQASASG  
AQKGRQGGSSSYVLQTEELVNKQQRRETKNSHQNGHYQNVVDVREEHSSKLQTSLHP  
AHQDRLQHGPDKIFTTQDELLVYNKNQHQTKNLSQDQEHGRKAHKISYPSSRTEERQLHH  
GEKSVQKDVSKGSISIQTEEKIHGKSQNQVTIHSQDQEHGHKENKISYQSSSTEERHLNC  
GEKGIQKGVSKGSISIQTEEQIHGKSQNQVRIPSQAQYEGHKKENKISYQSSSTEERRLNS  
GEKDVQKGVSKGSISIQTEEKIHGKSQNQVTIPSQDQEHGHKENKMSYQSSSTEERRLNY  
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>sp|Q8IYM1|SEP12\_HUMAN Septin-12 OS=Homo sapiens GN=SEPT12 PE=1 SV=1

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GKSTMVNTLFKSKVWKSNNPGLGVPTPQTLQLHSLTHVIEEKGVKLKLTVDTPGFGDQI  
NNDNCWDPILGYINEQYEQYLQEEILITRQRHIPDTRVHCCVYFVPPTGHCLRPLDIEFL  
QRLCRTVNVVPIARADSLTMEEREAFRRRIQQNLRTHCIDVYPQMCFDEDINDKILNSK  
LRDRIPFAVVGADQEHLVNGRCVLGRKTKWGIIEVENMAHCEFPLLRDLLIRSHLQDLKD  
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>sp|Q9NRX5|SERC1\_HUMAN Serine incorporator 1 OS=Homo sapiens GN=SERINC1 PE=1 SV=1

MGSVLGLCSMASWIPCLCGSAPCLLCRCCPSGNNSTVTRLIYALFLLVGVCAVVMLIPG  
MEEQLNKIPGFCENEKGVVPCNILVGKAVYRLCFGLAMFYLLSLLMIKVKSSSDPRAA  
VHNGFWFFKFAAAIAIIIGAFFIPEGTFTTVWFYVGMAGAFCFILIQVLVLLIDFAHSWNE  
SWVEKMEEGNSRCWYAALLSATALNYLLSLVAIVLFFVYYTHPASCSENKAFISVNMLLC  
VGASVMSILPKIQESQPRSGLLQSSVITVYTMylTWSAMTNEPETNCNPSLLSIIGYNTT  
STVPKEGQSVQWWHAQGIIGLILFLLCVFYSSIRTSNNSQVNKLTLTDESTLIEDGGAR  
SDGSLEDGDDVHRAVDNERDGVTSYSFFHMLFLASLYIMMTLTNWYRYEPSREMKSQW  
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>sp|Q13530|SERC3\_HUMAN Serine incorporator 3 OS=Homo sapiens GN=SERINC3 PE=2 SV=2

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METYLKKIPGFCGGFKIHEADINADKDCDVLVGKAVYRISFAMAIFFVFSLMFVKV  
TSKDLRAAVHNGFWFFKIAALIGIMVGSFYIPGGYFSSVWFVGMIGAALFILIQVLVLLV  
DFAHSWNESWVNRMEEGNRLWYAALLSFTSAFYILSIICVGLLYTYTTPDGCTENKFF  
ISINLILCVVASIISIHPKIQEHQPRSGLLQSSLITLYTMylTWSAMSNEPDRSCNPML  
SFITRITAPTAPGNSTAVVPTPTPPSKSGSLLDSDNFVGLFVFLCLLYSSIRTSTNSQ  
VDKLTLSGSDSVILGDTTTS GASDEEDGQPRRAVDNEKEGVQYSYSLFHLMLCLASLYIM  
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>sp|Q86VW0|SESD1\_HUMAN SEC14 domain and spectrin repeat-containing protein 1 OS=Homo sapiens GN=SESTD1 PE=1 SV=2

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RGFTVIDGRKSQWNVVKTVVVMQNVVPAEVS LVCVVKPDEFWDKKVTHFCFWKEKDRL  
GFEVILVSANKLTRYIEPCQLTEDFGGS LTYDHMDWLNKRLVFEKFTKESTSLDELALI  
NNGSDKGNQQEKERSVDLNF LPSVDPETVLQTGHELLSELQRRFNGSDGGVSWSPMDDE  
LLAQPVMMKLLDSLREQYTRYQEVCRQRSKRTQLEEIQQKVMQVNVWLEGPGEQLRAQW  
GIGDSIRASQALQQKHEEIESQHSEWFVYVELNQIAALLNAGDEEDLVELKSLQQQLS  
DVCYRQASQLEFRQNLQAALFEHGAQDLSQQLDGLLGMLCVDVAPADGASIQQTLKLL  
EEKLKSVDVGLQGLREKGGLDQISNQASWAYGKDVTIENKENVDHIQGVMEQMQLRKQ  
RCEDMVDVRRKMLQMVQLFKCEEDAAQAVEWSEL DALLKTHIRLGDDAQETKVLEK  
HRKFVDVAQSTYDYGRQLLQATVVLCQSLRCTSRSSGDTLPRLNRVWKQFTIASEERVHR  
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>sp|P58004|SESN2\_HUMAN Sestrin-2 OS=Homo sapiens GN=SESN2 PE=1 SV=1

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LEQHLGLEALMSSGRVDNLAVVMGLHPDYFTSFWR LH YLLLHTDGPLASSWRHYIAIMAA  
ARHQCSYL VGSHMAEFLQTGGDPEWLLGLHRAPEKLRKLSEINKLLAHRPWLITKEHIQA  
LLKTGEHTWSLAELIQALVLLTHCHSLSSFVFGGILPEGDADGSPAPQAPTPPSEQSSP  
PSRDPLNNSGGFESARDVEALMERMQQLQESLLRDEGTSQEEMESRFELEKSESLLVTPS  
ADILEPSPHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYS LIQRLYPEGG

QLLDEKFQAAAYSLTYNTIAMHSGVDTSVLRRAIWNYIHCVFGRYDDYDYGEVNQLLERN  
LKVIYIKTVACYPEKTTRRMYNLFWRHFRHSEKVVHNNLLLEARMQAALLYALRAITRYMT  
>sp|O15047|SET1A\_HUMAN Histone-lysine N-methyltransferase SETD1A OS=Homo sapiens  
GN=SETD1A PE=1 SV=3

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EEVEILLHPRTRKHLGLARVLTSTRGAKETVKNLHLTSMGNI IHAQLDIKGQQRMKYY  
ELIVNGSYTPQTVPTGGKALSEKFQGGGAATETAESRRRSSSDTAAYPAGTTAVGTPGNG  
TPCSQDTSFSSSRQDTPSSFGQFTPQSSQGTPYTSRGSTPYQSAYSSTTSTSFKPRR  
SENSYQDAFSRRHFSASSASTTASTAIAATTAATASSASSSSSLSSSSSSSSSSSSSQFR  
SSDANYPAYYESWNRYYQRHTSYPPRRATREEPPGAPFAENTAERFPPSYTSLPPEPSRP  
TDQDYRPPASEAPPEPPEPPEGGGGGGGGSPEREVTSRPPASPARSGSPAPETTNEV  
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PREVPVPTPAPVEVPVPERVAGSPVTPLPEQEASPARPAGPTEESPPSAPLRPPEPPAGP  
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SYLRLTYERLLQQTSGADWLNDTHVHHTITNLTPKRKRPPQDGPREQHQTGSARSEGY  
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NQLKFRKKKLRFGRSRIHEWGLFAMEPIAADEMVIEWGQNRQMVADMREKRYVQEGIG  
SSYLFRVDHDTIIDATKCGNLARFINHCCTPNKYAKVITIESQKKIVIIYSKQPIGVDEEI  
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>sp|Q8NE22|SETD9\_HUMAN SET domain-containing protein 9 OS=Homo sapiens GN=SETD9 PE=2 SV=2

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GFSVAQATSSLISAGKGVFTKGLVPGGAVVSMYPGTVYQKYEPFFQSIGNPFI FRCLD  
GVLIDGNDKGISKVVYRSCNGRDRLGPLKMSDSTWLTSEIHNPLAVGQYVNNCSNDRAAN  
VCYQEFDVPAVFPIELKQYLPNIAYSYDKQSPLRCVVLVALRDINQGEELFSNYTTIVS

>sp|PODME0|SETLP\_HUMAN Protein SETSIP OS=Homo sapiens GN=SETSIP PE=1 SV=1

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VQNEIDRLNEQDSEEILKVEQKYNKLRQPFFQKRSELIKIPNFGVTTFVNHPQVSSLLG  
EEDEEALHYLTKVEVFEDIKSGYRIDFYFDENPYFENKVSKEFHLNESGDPSSKSTK  
IKWKSCKDVTKRSSQTQNKASRKRQHEEPESFFTWFTDHSAGADELEEVIKDDIWPNPL

QYYLVPMDDEEGGEDDDDDDDGDEGEELEDEDEDEGEDEDDDEGEEGEEDGE  
DD

>sp|Q15427|SF3B4\_HUMAN Splicing factor 3B subunit 4 OS=Homo sapiens GN=SF3B4 PE=1 SV=1  
MAAGPISERNQDATVYVGGLEKDVSEPLLWELFLQAGPVVNTHMPKDRVTGQHQQYGFVE  
FLSEEDADYAIKIMNMIKLYGKPIRVNKASAHNKNLDVGANIFIGNLDPEIDEKLLYDTF  
SAFGVILQTPKIMRDPDTGNSKGYAFINFASFDASDAAIEAMNGQYLCNRPITVSYAFKK  
DSKGERHGSAAERLLAAQNPLSQADRPHQLFADAPPPPSAPNPVSSLSGLPPPGMPPP  
GSFPPVPPPGALPPGIPPAMPPPMPPGAAGHGPPSAGTPGAGHPGHGSHPHFPFPPGG  
MPHPGMSQMLAHHGPHGLGHPHAGPPSGGQPPRPPPGMPHPGPPPMGMPRGPFPFGS  
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PLPQ

>sp|A8K8P3|SFI1\_HUMAN Protein SFI1 homolog OS=Homo sapiens GN=SFI1 PE=1 SV=2  
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ELPSTSHLVQYRGTHCTRGRLRELRIRCVARKFLYLWIRMTFGRVFPKARFYEQRL  
LRKVFEWKEEWWVFQHEWKLCVRADCHYRYLYNLMFQTWKTYVRQQQEMRNKYIRAEV  
HDAKQKMRQAWKSWLIYVVVRRTKLQMQTALFRQRIILRVWWSTWRQLGQVRVSRAL  
HASALKHRALSLQVQAWSQWREQLLYVQKEKQKVSAVKHHQHWQKRRFLKAWLEYLQVR  
RVKRQQNEMAERFHHVTVLQIYFCDWQQAWERRESLYAHHAQVEKLARKMALRRAFTHWK  
HYMLLCAEEAAQFEMAEHHRHSQLYFCFRALKDNVTHAHLQQIRRNLAHQHGVTLHR  
FWNLWRSQIEQKKERELLPLLHAAWDHYRIALLCKCIELWLQYTQKRRYKQLQARADGH  
FQQRALPAAFHTWNRLWRWRHQENVLSARATRFHRETLEKQVFSLWRQKMFQHRENRLAE  
RMAILHAERQLLYRSWFMWHQAAAARHQEQEWQTVACAHHRHGRLKKAFLWRESAQGLR  
TERTGRVRAAEFHMAQLLRWWSQWRECLALGAERQKLMRADLHHQHSVLHRLQAWVT  
YQGRVRSILREVAARESQHNRQLLRGALRRWKENTMARVDEAKKTFQASTHYRRTICSKV  
LVQWREAVSVQMYRQQEDCAIWEAQKVLDRGCLRTWFQWWDCSRRSAQQRLQLERAVQ  
HHHRQLLLEGLARWKTHHLQCVRKRLHRQSTQLLAQRLSRTCFRQWRQQLAARRQEQR  
TVRALWFWAFSLQAKVATWLAFLVLRERRKKARLQWALQAYQGQLQEGATRLLRFAASM  
KASRQQLQAQQQVQAAHSLHRAVRRCATLWKQKVLGRGGKQPPLAAIAPSRKVTFEGPLL  
NRIAAGAGDGTLETKRPQASRPLGALGRLAAEPPHALELNTAHSARKQPRRPHFLLEPAQ  
SQRPKQKQEHGLGMAQPAAPSLTRPFLAEAPTALVPHSPLPGALSSAPGPKQPPTASTGP  
ELLLLPLSSFMPCGAAAPARVSAQRATPRDKPPVPSSLASVPDPHLLLPGDFSATRAGPG  
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>sp|Q92765|SFRP3\_HUMAN Secreted frizzled-related protein 3 OS=Homo sapiens GN=FRZB PE=1  
SV=2

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TQANAILAIEQFEGLLGTHCSPDLLFFLCAMYAPICTIDFQHEPIKPKSVCERARQGCE  
PILIKYRHSWPENLACEELPVYDRGVCISPEAIVTADGADFPMDSSNGNCRGASSERCKC  
KPIRATQKTYFRNNYVIRAKVKEIKTKCHDVTAVVEVKEILKSSLVNIPRDTVNLYTS  
SGCLCPPLNVNEEYIMGYEDEERSRLLVEGSIAEKWKDRLGKKVKRWDMLRHLGLSK  
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>sp|Q92835|SHIP1\_HUMAN Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1 OS=Homo  
sapiens GN=INPP5D PE=1 SV=2  
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DKFTVQASEGVSMRFFTKLDQLIEFYKKENMGLVTHLQYPVPLEEEDTGDDPEEDTVESV  
VSPPELPPRNIPLTASSCEAKEVPFSNENPRATETSRPSLSETLFQRLQSMDSGLPEEH  
LKAIQDYLSTQLAQDSEFVKTGSSSLPHLKKLTTLCKELYGEVIRTLPSLESLQRLFDQ  
QLSPGLRPRPQVPGEANPINMVSLSQLTSLSSIEDKVKALLHEGPESPHRPSLIPPVT  
FEVKAESLGIPQKMLKVDVESGLIIKKSKDGSEDKFYSHKKILQLIKSQKFLNKLVL  
VETEKEKILRKEYVFADSKKREGFCQLLQMKKNHSEQPEPDMITIFIGTWNMGNAAPPK  
KITSWFLSKGQKTRDSDADYIPHDYVIGTQEDPLSEKEWLEILKHSLQEITSVTFKTV  
AIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNGAVGVSMFNGTSLGFVNS  
HLTSGSEKKLRRNQNMNIRFLALGDKKLSPFNITHRFTHLFWGDLNRYVDLPTWEAE  
TIIQKIKQQYADLLSHDQLLTERREQKVFLHFEEEEITFAPTYRFERLTRDKYAYTKQK  
ATGMKYNLPSWCDRLWKSYPVHVVCQSYGSTSDIMTSDHSPVFATFEAGVTSQFVSKN  
GPGTVDSQGQIEFLRCYATLTKTSQTKFYLEFHSSCLESFVKSQEGENEESGEGELVVKF  
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GELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAP  
PCSGSSITEIINPNYMGVPGFPMPPLHVKQTLSPDQQPTAWSYDQPPKDSPLGPCRGES  
PPTPPGQPPISPKKFLPSTANRGLPPRTQESRPSDLGKNAGDTLPQEDLPLTKPEMFENP  
LYGSLSSFPPKAPRKDQESPKMPRKEPPPCPEPGILSPSIVLTKAQEADRGEPPGKQVPA  
PRLRSFTCSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRPIKPSRSEINQQTPPTPTPR  
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>sp|Q9Y371|SHLB1\_HUMAN Endophilin-B1 OS=Homo sapiens GN=SH3GLB1 PE=1 SV=1

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CGETQKRIGTADRELQTSALNFLTPLRNFIEGDYKTIAKERKLLQNKRLDLDAKTRLK  
KAKAAETRNSSEQELRITQSEFDRQAEITRLLLEGISSTHAHHLRCLNDFVEAQMYYAQ  
CYQYMLDLQKQLGSFSPNYLSNNQTSVTPVPSVLPNAIGSSAMASTSGLVITSPSNLSD  
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LELLN

>sp|O15266|SHOX\_HUMAN Short stature homeobox protein OS=Homo sapiens GN=SHOX PE=1 SV=1

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RTNFTLEQLNELERLFDETHYPDAFMREELSQRGLSEARVQVWFQNRRAKCRKQENQMH  
KGVILGTANHLDACRVAPYVNMGALRMPFQQVQAQLQLEGVAHAHPLHPLAAHAPYLM  
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>sp|Q2M3G4|SHRM1\_HUMAN Protein Shroom1 OS=Homo sapiens GN=SHROOM1 PE=1 SV=1

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EAEAAAQAAEPPSPASRAAYRQLQGAQRRVLRETSFQRKELRMSLPARLRPTVPARPP  
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ECLGEACSSSGLPGPEPLEFQHPALAKFEDHEVGWLPETQPQGSNMNLDSGSLKLGDAFRP  
ASRSRSASGEVLGSWGGSGGTIPVQAVPQGAETPRPLFQTKLSRFLPQKEAAVMYPael  
PQSSPADSEQRVSETCIVPAWLPSLPDEVFLEEAPLVRMRSPDPHASQGPPASVHASDQ  
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TIDPTGLTTNPPTAAESDLLKVPADALGLSGNDTPGPSHTALARGTGQPGSRPTWPSQ  
CLEELVQELARLDPSLCDPLASQPSPEPPLGLLDGLIPLAEVRAAMRPACGEAGEEAAST

FEPGSYQFSFTQLLPAPREETRLNPATHPVLDQPCGGLPAPNNSIQGKKVELAARLQK  
MLQDLHTEQERLQGEAQAWARRQAALAAVRQACAPQELERFSRFMADLERVLGLLLLLG  
SRLARVRRALARAAASDSDPDEQASLLQRLRLQQRQEDAKELKEHVARRERAVREVLVRA  
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PPVQPPFPLLT

>sp|Q13796|SHRM2\_HUMAN Protein Shroom2 OS=Homo sapiens GN=SHROOM2 PE=1 SV=1

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RRPELTDRPWRSAPGSLGKSGGPGCPQEAHADGSWPPSKDGASSRLQASLSSSDVRFP  
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>sp|O15389|SIGL5\_HUMAN Sialic acid-binding Ig-like lectin 5 OS=Homo sapiens GN=SIGLEC5  
PE=1 SV=1

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LRRVRSAAEEGGFTCRAQHPLGFLQIFLNSVYSLPQLLGPSCSWEAEGLHCRCFRARPA  
PSLCWRLEEKPLEGNSSQGSFKVNSSSAGPWANSSLILHGGSSDLKVSCAWNIYGSQS  
GSVLLLQGRSNLGTGVVPAALGGAGVMALLCICLCLIFFLIVKARRKQAAGRPEKMDDED  
PIMGTITSGSRKKPWPDPSPGDQASPPGDAPPLEEQKELHYASLSFSEMKSREPKDQEAPS

TTEYSEIKTSK

>sp|Q9Y286|SIGL7\_HUMAN Sialic acid-binding Ig-like lectin 7 OS=Homo sapiens GN=SIGLEC7  
PE=1 SV=1

MLLLLLLPLLWGRERVEGQKSNRKDYSLTMQSSVTVQEGMCVHVRCSFSYPVDSQTDSDP  
VHGYWFRAGNDISWKAPVATNNPAWAVEETRDRFHLLGDPQTKNCTLSIRDARMSDAGR  
YFFRMEKGNIKWNYKYDQLSVNVLTALTHRPNILIPGTLESGCFQNLTCVWPWACEQGTPP  
MISWMGTSVSPLHPSTTRSSVLTLPQPQHHGTSLTQCVTLPGAGVTNRTIQLNVSYP  
QNLTVTVFQGEGTASTALGNSSSLSVLEGQSLRLVCAVDSNPPARLSWTWRSLTLYPSQP  
SNPLVLELQVHLGDEGEFTCRAQNSLGSQHVSLLSLQQEYTGKMRPVSGVLLGAVGGAG  
ATALVFLSFCVIFIVRSCRKKSARPAADVGDIGMKDANTIRGSASQGNLTESWADDNPR  
HHGLAAHSSGEEREIQYAPLSFHKGEPQDLSGQEATNNEYSEIKIPK

>sp|Q9Y336|SIGL9\_HUMAN Sialic acid-binding Ig-like lectin 9 OS=Homo sapiens GN=SIGLEC9  
PE=1 SV=2

MLLLLLLPLLWGRERAEGQTSKLLTMQSSVTVQEGLCVHVPCSFSYPSHGWYIPGPVVHGY  
WFREGANTDQDAPVATNNPARAVEETRDRFHLLGDPHTKNCTLSIRDARRSDAGRYFFR  
MEKGSIKWNYKHHRLSVNVLTALTHRPNILIPGTLESGCPQNLTCVWPWACEQGTPPMISW  
IGTSVSPLDPSTTRSSVLTLPQPQDHGTSLTQCVTFPGASVTTNKTVHLNVSYPQNL  
MTVFQGDGTSTVLGNGSSLSLPEGQSLRLVCAVDAVDSNPPARLSLSWRGLTLCPSQPS  
NPGVLELPWWHLRDAAEFTCRAQNPLGSQQVYLVNLSQSKATSGVTQGVVGGAGATALVF  
LSFCVIFVVRSCRKKSARPAAGVDTGIEDANAVRGSASQGPLTEPWAEDSPDQPPPA  
SARSSVGEGLQYASLSFQMVKPWDSRGQEATDTEYSEIKIHR

>sp|PODJ93|SIM13\_HUMAN Small integral membrane protein 13 OS=Homo sapiens GN=SMIM13 PE=3  
SV=1

MWHSVGLTLLVFVATLLIVLLLLMVCGWYFVWHLFLSKFKFLRELVGDTGSQEGDHEPSGS  
ETEEDTSSSPHIRSARQRRAPADEGHRPLT

>sp|Q7Z3B0|SIM15\_HUMAN Small integral membrane protein 15 OS=Homo sapiens GN=SMIM15 PE=3  
SV=1

MFDIKAWAEYVVEWAAKDPYGFLLTIVILALTPLFLASAVLSWKLAKMIEAREKEQKKKQK  
RQENIAKAKRLKKD

>sp|PODKX4|SIM18\_HUMAN Small integral membrane protein 18 OS=Homo sapiens GN=SMIM18 PE=4  
SV=1

MASSHWNETTTSVYQYLGQVQKIYPFHDNWTACFVILLFIFTVVSLLVLAFLYEVL  
CCCCVKNKTVKDLKSEPNPLRSMMDNIRKRETEVV

>sp|P81133|SIM1\_HUMAN Single-minded homolog 1 OS=Homo sapiens GN=SIM1 PE=2 SV=2

MKEKSKNAARTREKENSEFYELAKLLPLSAITSQLDKASIIRLTTSYLKMRVVFPEGL  
GEAWGHSSRTSPLDNVRELGSLLQTLDFIFVVPDGMKIMYISETASVHLGLSQVELT  
GNSIYEIHPADHDEMTAVLTAHQPYHSHFVQEYEIERSFFLRMKCVLAKRNAGLTCCGY  
KVIHCSGYLKIRQYSLDMSPFDGCYQNVGLVAVGHSLPPSAVTEIKLHSNMFMFRASLDM  
KLIFLDSRVAELTGYPQDLIEKTLYHHVHGCDTFHLRCAHLLLVKGQVTTKYRFLAK  
HGGWVWVQSYATIVHNSRSSRPHCIVSVNYVLTDTYKGLQLSLDQISASKPAFSYTSSS  
TPTMTDNKRGAKSRLSSSKSRTSPYPQYSGFHTERSESDHDSQWGGSPLTDTASPQLL  
DPADRPGSQHDASCAYRQFSDRSSLCYGFALDHSRLVEERHFHTQACEGGRCEAGRYFLG  
TPQAGREPWWGSRAALPLTKASPESREAYENSMPHIASVHRIHGRGHWEDESVVSSPDPG  
SASESGDRYRTEQYQSSPHEPSKIETLIRATQQMIKEENRLQLRKAPSDQLASINGAGK



KHSLCFANYQQPPPTGEVCHGSALANTSPCDHIQQREGKMLSPHENDYDNSPTALSRIS  
PNSDRISKSSILAKDYLHSDISPHQTAGDHPTVSPNCFGSHRQYFDKHAYTLTGYLEH  
LYDSETIRNYSLGCNGSHFDVTSHLRMQPDPAQGHKGTSVIITNGS

>sp|PODMW3|SIML1\_HUMAN Small integral membrane protein 10-like protein 1 OS=Homo sapiens  
GN=SMIM10L1 PE=3 SV=1

MEALGSGHYVGGIRSMAAALSGLAVRLSRPQGTRGSYGAFCKTLTRTLLTFFDLAWRL  
RKNFFYFYILASVILNVHLQVYI

>sp|Q96EB6|SIR1\_HUMAN NAD-dependent protein deacetylase sirtuin-1 OS=Homo sapiens  
GN=SIRT1 PE=1 SV=2

MADEAALALQPGGSPAAGADREAASSPAGEPLRKRPRRDGPGLERSPGEPGGAAPEREV  
PAAARGCPGAAAAALWREAEAEAAAAGGEQEAQATAAAGEGDNPGPGLQGPSREPPLADNL  
YDEDDDDGEEEEEEEEAAAAIIGYRDNLLFGDEIITNGFHSCESEEDRASHASSSDWT  
PRPRIGPYTFVQQHLMIGTDPRTILKDLLPETIPPELDDMTLWQIVINILSEPPKRKRKDI  
NTIEDAVKLLQECKKIIVLTGAGVSVSCGIPDFRSRDIYARLAVDFPDLDPQAMFDIE  
YFRKDPRPFFKFAKEIYPGQFQPSLCHKFIALSDKEGKLLRNYTQNIDTLEQVAGIQRII  
QCHGSFATASCLICKYKVDCEAVRGDIFNQVPRCPRCPADEPLAIMKEIVFFGENLPE  
QFHRAMKYDKDEVLLIVIGSSSLKVRPVALIPSSIPHEVPQILINREPLPHLHFDVELLG  
DCDVIINELCHRLGGEYAKLCCNPVKLSEITEKPPRTQKELAYLSELPTPLHVSEDSSS  
PERTSPPDSSVIVTLLDQAAKSNDLDVSESKGCMEEKPQEVQTSRNVESIAEQMENPDL  
KNVGSSTGEKNERTSVAGTVRKCWPNRVAKQISRRLDGNQYFLPPNRYIFHGAEVYSD  
SEDDVLSSSSCGSNSDSGTCQSPSLEEPMEDESEIEEFYNGLEDEPDVPERAGGAGFGTD  
GDDQEAINAISVKQEVTDNMNPSNKS

>sp|Q8IXJ6|SIR2\_HUMAN NAD-dependent protein deacetylase sirtuin-2 OS=Homo sapiens  
GN=SIRT2 PE=1 SV=2

MAEPDPSPHLETQAGKVQEAQDSDSSEGAAGGEADMDFLRNLFSQLSLGSQKERLLD  
ELTLEGVARYMQSERCRRVICLVGAGISTAGIPDFRSPSTGLYDNLEKYHLPYPEAIFE  
ISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCTYQNIDTLERIAGLEQ  
EDLVEAHGTFTYTHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLP  
ARFFSCMQSDFLKVDLLVMGTSQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI  
MGLGGGMDFDSSKKAYRDVAWLGECDQGCCLALAEELGWKKELEDLVRREHASIDAQSGAGV  
PNPSTSASPKKSPPAKDEARTTEREKPQ

>sp|Q9Y448|SKAP\_HUMAN Small kinetochore-associated protein OS=Homo sapiens GN=KNSTRN PE=1  
SV=2

MAAPEAPPLDRVFRTTWLSTECDSHPLPPSYRKFLFETQAADLAGGTTVAAGNLLNESEK  
DCGQDRRAPGVQPCRLVTMTSVVKTVYSLQPPSALSGGQPADTQTRATSKSLLPVRSKEV  
DVSKQLHSGGPENDVTKITKLRRENGQMKATDTATRRNVKGYKPLSKQKSEEELKDKNQ  
LLEAVNKQLHQKLTTETQGELKDLTQKVELLEKFRDNCLAILESKGLDPALGSETLASRQE  
STTDHMSMLLLETQLQELKLFNETAKKQMEELQALKVKLEMKEERVRFLEQQTLCNNQV  
NDLTALKEMEQLLEM

>sp|Q15477|SKIV2\_HUMAN Helicase SKI2W OS=Homo sapiens GN=SKIV2L PE=1 SV=3

MMETERLVLPDPDLPLRAVELGCTGHWELLNLPGAPESSLPHGLPPCAPDLQQEAEQ  
LFLSSPAWLPLHGVESARKWQRKTDPSWLLAVLGAPVPSDLQAQRHPTTGQILGYKEVL  
LENTNLSATTSLRRPPGPASQSLWGNPTQYFPWPGGMDPTITDLNTRREEAEEIDFE  
KDLLTIPPGFKKGMDFAKDCPTAPGLLSLSCMLEPLDLGGGDEDENEAVGQPGGPRGD

TVSASPCSA PLARASSLEDLVLKEASTAVSTPEAPEPPSQEQWAIPVDATSPVGDFYRLI  
PQPAFQWAFEPDVFQKQAILHLERHDSVFVAAHTSAGKTVVAEYAIALA QKHMTRTIYTS  
PIKALSNQKFRDFRNTFGDVGLLTGQVQLHPEASCLIMTTEILRSM LYS GSDVIRDLEWV  
IFDEVHYINDVERGVVWEEVLIMLPDHVSI ILLSATVPNALEFADWIGRLKRRQIYVIST  
VTRPVPLEHYLFTGNSSKTQGELFLL L DSRGAFHTKGYAAVEAKKERMSKHAQTFGAKQ  
PTHQGGPAQDRGVYLSLLASLRTRAQLPVVVF TFSRGRCD EQASGLTSLDLTTSSEKSEI  
HLFLQRCLARLRGSDRQLPQVLHMS ELLNRGLGVHSGILPILKEIV EMLFSRGLVKVLF  
ATETFAMGVNMPARTVVFDSMRKHDGSTFRDLLPGEYVQMAGRAGRRGLDPTGTVILLCK  
GRVPEMADLHRMMMGKPSQLQSQFRLTYTMILNLLRVDALRVEDMMKRSFSEFPSRKDSK  
AHEQALAE LTKRLGALEEDMTGQLVDLPEYYSWGEELTETQHMIQRRIMESVNGLKSL S  
AGRVVVVKNEHHNALGVILQVSSNSTSRVFTTLVLC DKPLSQDPQDRGPATAEVPYPDD  
LVGFKLFLPEGPCDHTVVKLQPGDMAAITTKVL RVNGEKILED FSKRQQPKFKKDPPLAA  
VTTAVQELLRLAQHPAGPPTLDPVNDLQLKDM SVVEGGLRARKLEELIQGAQCVHSPRF  
PAQYLKLRERMQIQKEMERLRFLLSDQSLLLPEYHQ RVEVLR TLGYVDEAGTVKLAGRV  
ACAMSSHELLL TELMFDNALSTLRPEEIAALLSGLVCSPGDAGDQLPNTLKQGIERVRA  
VAKRIGEVQVACGLNQTV EEFVGELNFG LVEVVYEWARGMPFSELAGLSGTPEGLVVRCI  
QRLAEMCRSLRGAARLVGEPVLGAKMETAATLLRRDIVFAASLYTQ

>sp|Q96C92|SDCG3\_HUMAN Serologically defined colon cancer antigen 3 OS=Homo sapiens  
GN=SDCCAG3 PE=1 SV=3

MSGYQRRPGATPLSRARSLAIPDAPAFYERRSCLPQLNCERPHGRDLDS PFFGIRPAFMC  
YVPSPVLASVGD TDFGYGKGKCSKQSPSGAHGTHFGDDR FEDLEEANPFSFREFLKTKNL  
GLSKEDPASRIYAKEASRHS LGLDHNSPPSQTGGYGLEYQQPFFEDPTGAGDLLDEEED E  
DTGWSGAYLPSAIEQTHPERVPAGTSPCSTYLSFFSTPSELAGPESLPSWALSDTDSRVS  
PASPAGSPSADFAVHGESLGDRHLRTLQISYDALKDENS KLRRKLNEVQSFSEAQTEMVR  
TLERKLEAKMIKEESDYHDLESVVQQVEQNLELMTKRAVKAENHVVKLKQEISLLQAQVS  
NFQRENEALRCGQGASLTVVKQNADVALQNL RVVMNSAQASIKQLVSGAETLNLVAEILK  
SIDRISEVKDEEEDS

>sp|Q99470|SDF2\_HUMAN Stromal cell-derived factor 2 OS=Homo sapiens GN=SDF2 PE=1 SV=2

MAVVPLLLLGGLWSAVGASSLG VVTCGSVVKLLNTRHNVR LSHDVR YGSGGQSVTG V  
TSVDDSN SYWRIRGKSATVCERGTP IKCGQPIRLTHVNTGRNLHSHHFTSPLSGNQEVS A  
FGEEGEDYLD DWTVLCNGPYWVRDGEVRFKHSSTEVL LSVTGEQYGRPTSGQKEVHGMA  
QPSQNNYWKAMEGIFMKPSELLKAEAHHAEL

>sp|P31040|SDHA\_HUMAN Succinate dehydrogenase [ubiquinone] flavoprotein subunit,  
mitochondrial OS=Homo sapiens GN=SDHA PE=1 SV=2

MSGVRGLSRLLSARRLALAKAWPTVLQTGTRGFHFTVDGNKRASAKVSDSISAQYPVVDH  
EFDVAVVGAGGAGLRAAFGLSEAGFNTACVTKLFPTRSHTVAAQGGINAALGNMEEDNWR  
WHFYDTVKGSDWLGDQDAIHYTEQAPAAVVELENYGMPFSRTEDGKIYQRAFGGQSLKF  
GKGQQAHRCCCVADRTGHSL LHTLYGRSLRYDTSYFVEYFALDLLMENGE CRGVIALCIE  
DGSIHRI RAKNTVVATGGYGRTYFSCTSAHTSTGDGTAMITRAGLPCQDLEFVQFHPTGI  
YGAGCLITEGCRGEGGILINSQGERFMERYAPVAKDLASRDVVSRSMTLEIREGRGCGPE  
KDHVYLQLHHL PPEQLATRLPGISETAMIFAGVDVTKEPIPVLP TVHYNMGGIPTNYKGQ  
VLRVNGQDQIVPGLYACGEAACASVHGANRLGANSLLDLVVFG RACALSIEESCRPGDK  
VPPIKPNAGEESVMNLDKLRFADGSI RTSELRLSMQKSMQNHA AVFRVGSVLQEGCGKIS  
KLYGDLKHLKTFDRGMVWNTDLVETLELQNLMLCALQTIYGAEARKESRG AHAREDYKVR

IDEYDYSKPIQGQKKPFEEHWRKHTLSYVDVGTGKVTLEYRPVIDKTLNEADCATVPPA  
IRSY

>sp|Q5VUM1|SDHF4\_HUMAN Succinate dehydrogenase assembly factor 4, mitochondrial OS=Homo sapiens GN=SDHAF4 PE=3 SV=1

MTPSRLPWLLSWVSATAWRAARSPLLCHSLRKTSSSQGGKSELVKQSLKKPKLPEGRFDA  
PEDSHLEKEPLEKFPDDVNPVTKEKGGPRGPEPTRYGDWERKGRCIDF

>sp|Q58EX2|SDK2\_HUMAN Protein sidekick-2 OS=Homo sapiens GN=SDK2 PE=1 SV=3

MWGLLIWTLALHQUIRAARAQDDVSPYFKTEPVRTQVHLEGNRLVLTCAEGSWPLEFKW  
LHNNRELTKFSLEYRYMITSLDRTHAGFYRCIVRNRMGALLQRQTEVQVAYMGSFEEGEK  
HQSVMHGEAAVIRAPRIASFPQPQVTWFRDGRKIPSSRIAITLENTLVILSTVAPDAGR  
YYVQAVNDKNGDNKTSQPITLTVENVGGPADPIAPTIIIPPKNTSVVAGTSEVTLECVAN  
ARPLIKLHIIWKKDGVLLSGGISDHNRLTIPNPTGSDAGYYECEAVLRSSSVPSVVRGA  
YLSVLEPPQFVKEPERHITAEMEKVVDIPCQAKGVPPPSITWYKDAAVVEVEKLTRFRQR  
NDGGLQISGLVPDDTGMFQCFARNAAGEVQTSTYLAVTSIAPNITRGPLDSTVIDGMSVV  
LACETSGAPRPAITWQKGERILASGSVQLPRFTPLESGSLISPTHISDAGTYTCLATNS  
RGVDEASADLVVWARTRITKPPQDQSVIKGTQASMVCGVTHDPRVTIRYIWEKDGATLGT  
ESHPRIRLDRNGSLHISQTSWGDIGTYTCRVISAGGNSRSAHLRVRQLPHAPEHPVATL  
STVERRAINLTWTKPFDGNSPLIRYILEMSENNAPWTVLLASVDPKATSVTVKGLVPARS  
YQFRLCAVNDVGKGFQSKDTERVSLPEEPPTAPPQNVIASGRTNQSIMIQWQPPPEHQN  
GILKGYIIRYCLAGLPVGYQFKNITDADVNNLLLEDLIWNTYIEVAAVNSAGLGVYSS  
KVTEWTLQGVPTPPGNVHAEATNSTTIRFTWNAPSPQFINGINQGYKLIAWEPEQEEEV  
TMVTARPNFQDSIHVGFVSLKKFTEYFTSVLCFTTPGDGPRSTPQLVRTHEDVPGPVGH  
LSFSEILDTSLKVSWEPEGEKNGILTGYRISWEEYNRTNTRVTHYLPNVTLEYRVTGLTA  
LTTYTIEVAAMTSKGGQVSASTISSGVPELPGPPTNLGISNIGPRSVTLQFRPGYDGK  
TSISRWLVEAQVGVVGEGEWLLIHQLSNEPDARSMEVPDLNPFTCYSFMRQVNIVGTS  
PPSQPSRKIQTLQAPPDMPANVSLRTASETSLWLRWMLPEMEYNGNPESVGKIKYSR  
SDGHGKTLSHVVQDRVERDYTIEDLEEWTEYRVQVQAFNAIGSGPWSQTVVGRRESVPS  
SGPTNVSALATTSSMLVRWSEVPEADRNLVLGYKVMYKEKSDTQPRFWLVEGNSSRS  
AQLTGLGKYVLYEVQVLAFTRIGDGSPSHPPILERTLDDVPGPPMGILFPEVRTTSVRLI  
WQPPAAPNGIILAYQITHRLNTTANTATVEVLAPSARQYTATGLKPESVYLFRIQAQTR  
KGWGEAAEALVVTTEKDRPQPPSRPMVQVEDVRARSVLLSWEPGSDGLSPVRYTITQR  
ELPSGRWALHSASVSHNASSFIVDRLKPFTSYKFRVKATNDIGDSEFSEESLTTLQAA  
PDEAPTILSVTPHTTTSVLIRWQPPAEDKINGILLGFRIRYRELLYEGLRGFTLRGINNP  
GATWAELTSMYSMRNLSRPSLTQYELDNLNKHRRYEIRMSVYNAVGEPPSSPPQEVFVGE  
AVPTAAPRNVVHGATATQLDVTWEPPPLDSQNGDIQGYKIYFWEAQRGNLTERVKTFLFL  
AENSVKLKNTGYTAYMVSVAAFNAAGDGPRSTPTQGQTQQAAPSAPSSVKFSELTTTSV  
NVSWEPAPQFPNGILEGYRLVYEP CSPVDGVS KIVTVDVKGNSPLWLKVKDLAEGVTYRFR  
IRAKTFTYGPEIEANVTGPGEGAPGPPGVPIIVRYSSAIAIHWSSGDPGKGPITRYVIE  
ARPSDEGLWDILIKDIPKEVSSYTF SMDILKPGVSYDFRVIAVNDYGF GTPSSPSQSVPA  
QKANPFYEEWWFLVVI ALVGLIFILLVFVLIIRGQSKKYAKKTD SGNSAKSGALGHSEM  
MSLDESSFPAL ELNNRRLSVKNSFCRKNGLYTRSPRPSPGSLHYSDEDVTKYNDLIPAE  
SSSLTEKPSEISDSQGS DSEYEVD SNHQKAHSFVNHYISDPTYNSWRRQQKGISRAQAY  
SYTESDSGEPDHTT VTNSTSTQQGSLFRPKASRTPTPQNPPNPPSQQSTLYRPPSSLAPG  
SRAPIAGFSSSV

>sp|Q5TEA6|SE1L2\_HUMAN Protein sel-1 homolog 2 OS=Homo sapiens GN=SEL1L2 PE=2 SV=2

MKPLSLLEILILGVTIKTIKAEHNKRQKERNVTTQVSVNEIKQYLSHILEQRTSSNV  
INKRENLEKKKNQRKIRIKGIQNKDILKRKNHLQKQAEKNFTDEGDQLFKMGIKVLQQ  
SKSQKQKEEAYLLFAKAADMGNLKAMEKMADALLFGNFGVQNITAAIQLYESLAKEGSCK  
AQNALGFLSSYGIGMEYDQAKALIYYTFGSAGGNMMSQMILGYRYLSGINVLQNCVALS  
YYKKVADYIADTFEKSEGVPEKVRRLTERPENLSSNSEILDWDIYQYYKFLAERGDVQIQ  
VSLGQLHLIGRKGLDQDYKALHYFLKAAKAGSANAMAFIGKMYLEGNAAVPQNNATAFK  
YFSMAASKGNAIGLHGLGLLYFHGKGVPLNYAEALKYFQKAAEKGWPDQFQLGFMYYSG  
SGIWKDYKLAFKYFLASQSGQPLAIYYLAKMYATGTGVVRSCTAVELYKGVCELGHWA  
EKFLTAYFAYKGDIDSSLVQYALLAEMGYEVAQSNSAFILSKKANILEKEKMYPMALL  
LWNRAAIQGNAFARVKIGDYHYGYGTKKDYQTAATHYSIAANKYHNAQAMFNLAYMYEH  
GLGITKDIHLARRLYDMAAQTSPPDAHIPVLFVAVMKLETHLLRDILFFNFTTRWNWLKLD  
NTIGPHWDLFVIGLIVPGLILLRNHHG

>sp|Q6UXD5|SE6L2\_HUMAN Seizure 6-like protein 2 OS=Homo sapiens GN=SEZ6L2 PE=1 SV=2

MGTPRAQHPPPPQLFLILLSCPWIQGLPLKEEEILPEPGSETPTVASEALAEHLHGALL  
RRGPEMGYLPGSDRDPTLATPPAGQTLAVPSLPRATEPGTGPLTTAVTPNGVRGAGPTAP  
ELLTPPPGTTAPPPSPASGPPLGPEGEEETTTTIIITTTVTSTVSPVLCNNISEG  
EGYVESPDLGSPVSRTLGLLDCTYSIHVYPGYGIEIQVQTLNLSQEEELLVLAGGGSPGL  
APRLLANSSMLGEGQVLRSPNRLLLHFQSPRVPRGGGFRIHYQAYLLSCGFPPRPAHGD  
VSVTDLHPGGTATFHCDSGYQLQGEETLICLNGTRPSWNGETPSCMASCGGTIHNATLGR  
IVSPEPGGAVGNLTCRWVIEAAEGRRLHLHFERSLDEDNDRLMVRSGGSPLSPVIYDS  
DMDDVPERGLISDAQSLYVELLSETPANPLLLSLRFEAFEEDRCFAPFLAHGNVTTTDP  
YRPGALATFSCLPGYALEPPGPPNAIECVDPTEPHWNDTEPACKAMCGGELSEPAGVVS  
PDWPQSYSPGQDCVWGVHVQEEKRILLQVEILNVREGDMLTLFDGDGPSARVLAQLRGPQ  
PRRRLSSGPDLTQFQAPPGPNNPGLGQGFVLHFKEVPRNDTCPELPPPEWGWRTASHG  
DLIRGTVLTYQCEPGYELLGSDILTCQWDLWSAAPPACQKIMTCADPGEIANGHRTASD  
AGFPVGS HVQYRCLPGYSLEGAAMLTCSYRDTGTPKWSRVPKCALKEYEPCLNPGVPENG  
YQTLYKHHYQAGESLRFCEYGFELIGEVTITCVPGHPSQWTSQPPLCKVTQTTDPSRQL  
EGGNLALAILPLGLVIVLGSQVYIYYTKLQGKSLFGFSGSHSYSPITVESDFSNPLYEA  
GDTREYEVSI

>sp|Q9BSV6|SEN34\_HUMAN tRNA-splicing endonuclease subunit Sen34 OS=Homo sapiens GN=TSEN34

PE=1 SV=1

MLVVEVANGRLVWGAEAVQALRERLGVGGRTVGALPRGPRQNSRLGLPLLLMPPEARLL  
AEIGAVTLVSAPRPDSRHSLALTSFKRQQEEESFQEQSALAAEARETRRQELLEKITEGQ  
AAKKQKLEQASGASSSQEAGSSQAAKEDETSQGASGEQEEAGPSSSQAGPSNGVAPLPR  
SALLVQLATARPRPVKARPLDWRVQSKDWPAGRPAGHELRYSIYRDLWERGFFLSAAGKF  
GGDFLVYPGDPLRFHAHYIAQCWAPEDTIPLQDLVAAGRLGTSVRKTLLLCSPQPDGKVV  
YTSLQWASLQ

>sp|Q9H4L4|SEN3\_HUMAN Sentrin-specific protease 3 OS=Homo sapiens GN=SEN3 PE=1 SV=2

MKETIQGTGSWGPEPPGPGIPPAYSSPRRERLRWPPPKPRLKSGGGFGPDPGSGTTVPA  
RRLVPVPRPSFDASASEEEEEEEEEDEDEEEVAAWRLPPRWSQLGTSQRPRPSRPTHK  
TCSQRRRRAMRAFRMLLYSKSTSLTFHWKLWGRHRGRRRLAHPKNHLSPPQQGGATPQVP  
SPCCRFDSPRGPPPRGLLGAALMAEDGVRGSPVPVSGPPMEEDGLRWTPKSPLDPDPSGL  
LSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGSDDLGMEEAERPG

EKAGQHSPREEHVTCVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSRKGLV  
LQLIQSYQRMPGNAMVRGFRVAYKRHVLTMDDLGTLYGQNLNDQVMNMYGDLVMDTVPE  
KVHFFNSFFYDKLRTKGYDGVKRWTKNVDIFNKELLLPIHLEVHWSLISVDVRRRTITY  
FDSQRTLNRRCPKHIAKYLAQAEAVKKDRLDFHQGWKG YFKMVARQNNSDCGAFVLQYC  
KHLALSQPFSTQQDMPKLRRQIYKELCHCKLTV

>sp|Q9BQF6|SEN7\_HUMAN Sentrin-specific protease 7 OS=Homo sapiens GN=SEN7 PE=1 SV=4

MDKRKLGRPSSEIITEGKRKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPL  
LQWERSLRNKVISLDHKNKKHIRGCPVTSKSSPERQLKVMLTNVLWTDLGRKFRKTLPRN  
DANLCDANKVQSDSLPSTSVDSLETQCKLEPLRQSLNLSERIPRVILT NVLGT ELGRKYI  
RTPPVTEGSLSDTDNLQSEQLSSSDGSLESYQNLNPHKSCYLSERGSQRSKTVDNSAK  
QTAHNKEKRRKDDGISLLISDTQPEDLNSGRGCDHLEQESRNKDVKYSDSKVELTLISR  
KTKRRLRNLPDSQYCTSLDKSTEQTKKQEDDSTISTEF EKPS ENYHQDPKLPEEITTKP  
TKSDFTKLSSLNSQELTSLNATKSASAGSTTETVENSNSIDIVGISSLVEKDENELNTIE  
KPILRGHNEGNSLISAEPIVVSDEEGPVEHKSS EILKLQSKQDRETTNENESTSESAL  
LELPLITCESVMSELCPYNPVMENISSIMPSNEMDLQLDFITSVYIGKIKGASKGCV  
TITKKYIKIPFQVSLNEISLLVDTHLKRFGWLKSKDDNHSKRSHAILFFWVSSDYLQEI  
QTQLEHSVLSQQKSSEFIFLELHNPVSQREELKLDIMTEISIIISGELELSYPLSWVQA  
FPLFQNLSSKESSFIHYVCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAAKPTYTFLQKQS  
SGCYSLSITSNPDEEWREVHTGLVQKLIVYPPPTKGG LGVTNEDLECLEEGEFLNDVI  
IDFYLYKYLEKASDELVERSHIFSSFFYKCLTRKENNLTEDNPNSMAQRRHKRVRTWT  
RHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQSQQAQQSQNDNKTID  
NDLRTTSTLSLSAEDSQSTESNMSVPKMKRCPILILDSLKAASVQNTVQNLREYLEVE  
WEVKLKT HRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPVNFELPIHLEKW  
FPRHVIKTKREDIRELILKLHLQQKKGSSS

>sp|075920|SERF1\_HUMAN Small EDRK-rich factor 1 OS=Homo sapiens GN=SERF1A PE=2 SV=1

MARGNQRELARQKNMKKTQEISKGRKEDSLTASQRKQSSGGQKSESKMSAGPHLPLKAP  
RENPCFPLPAAGSRYLAYGSITPISAFVFFVFFSVFFPSFYEDFCCWI

>sp|Q8TBK2|SETD6\_HUMAN N-lysine methyltransferase SETD6 OS=Homo sapiens GN=SETD6 PE=1  
SV=2

MATQAKRPRVAGPVDGGDLDPVACFLSWCRRVGLELSPKVSERAGGRRTRGGARAALTSP  
PAQVAVSRQGTVAGYGMVARESVAQAGELLFVVPRAALLS QHTCSIGLLERERVALQSQS  
GWVPLLLALLHELQAPASRWPRYFALWPELGRLEHPMFWP EEEERRCLLQGTGVPEAVEKD  
LANIRSEYQSIVLPFMEAHPDLSLRVRSLELYHQLVALVMAYSFQEPL EEEDEKEPNS  
PVMVPAADILNHLNHNANLEYSANCLRMVATQPIPKGHEIFNTYGGMANWQLIHMYGFV  
EPYPDNTDDTADIQMVTVREAAALQGTKTEAERHLVYERWDFLCKLEMVGEEGAFVIGREE  
VLTEELTTTLKVLCPAAEFRELKDQDGGGDDKREESLTITNIPKLKASWRQLLQNSV  
LLTLQTYATDLKTDQGLLSNKEVYAKLSWREQQALQVRYGQKMILHQLLELTS

>sp|Q15428|SF3A2\_HUMAN Splicing factor 3A subunit 2 OS=Homo sapiens GN=SF3A2 PE=1 SV=2

MDFQHRPGGKTGSGGVASSSESNRDRERLRQLALETIDINKDPYFMKNHLSYECKLCL  
TLHNNEGSYLAHTQGGKHQTNLARAAKEAKEAPAQPAPEKVKEVKKFVKIGRPGYKVT  
KQRDSEMGQQSLLFQIDYPEIAEGIMPRHRFMSAYEQRIEPPDRRWQYLLMAAEPYETIA  
FKVPSREIDKAEGKFTHWNRETKQFFLQFHFKMEKPPAPPSLPAGPPGVKRPPPLMNG  
LPPRPPLPESLPPPPGGLPLPMPPTGPAPSGPPGPPQLPPPAPGVHPPAPVHPPASG  
VHPPAPGVHPPAPGVHPPAPGVHPPPTSGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPP

APGVHPPPSAGVHPQAPGVHPAAPAVHPQAPGVHPPAPGMHPQAPGVHPQPPGVHPSAPG  
VHPQPPGVHPSNPGVHPPTMPMPMLRPPLPSEGPGNIPPPPTN

>sp|075533|SF3B1\_HUMAN Splicing factor 3B subunit 1 OS=Homo sapiens GN=SF3B1 PE=1 SV=3

MAKIAKTHEDIEAQIREIQGKKAALDEAQGVGLDSTGYDQEIYGGSDSRFAGYVTSIAA  
TELEDDDDYSSSTSLLGQKKPGYHAPVALLNDIPQSTEQYDPFAEHRPPKIADREDEYK  
KHRRTMIISPERLDPFADGGKTPDPKMNARTYMDVMREQHLTKEEREIRQQLAEKAKAGE  
LKVVNGAAASQPPSKRKRRWDQTADQTPGATPKKLSSWDQAETPGHTPSLRWDETPGRAK  
GSETPGATPGSKIWDPTPSHTPAGAATPGRGDTPGHATPGHGGATSSARKNRWDETPKTE  
RDTPGHSGSWAETPRTRDGGDSIGETPTPGASKRKS RDETPASQMGGSTPVLTGKTPI  
GTPAMNMATPTPGHIMSMTPEQLQAWRWEREIDERNRPLSDEELDAMFPEGYKVLPPPAG  
YVPIRTPARKLTATPTPLGGMTGFHMQTEDRTMKS VNDQPSGNLPFLKPDDIQYFDKLLV  
DVDESTLSPEEQKERKIMKLLLIKNGTPPMRKAALRQITDKAREFGAGPLFNQILPLLM  
SPTLEDQERHLLVKVIDRILYKLLDLVRPYVHKILVVIEPLLIDEDYYARVEGREIISNL  
AKAAGLATMISTMRPDIDNMEYVRNTTARAFVVASALGIPSLLPFLKAVCKSKKSWQA  
RHTGIKIVQQIAILMGCAILPHLRSLVEIIIEHGLVDEQQKVRTISALAI AALAEATPYG  
IESFDSVLKPLWKGIRQHRGKGLAAFLKAIGYLIPLMDAEYANYYTREVMLILIREFQSP  
DEEMKKIVLVKVKCCGTDGVEANYIKTEILPPFFKHFQHRMALDRRNYRQLVDTTVEL  
ANKVGAAEIIISRIVDDLKDEAEQYRKVMETIEKIMGNLGAADIDHKLEEQLIDGILYAF  
QEQTTEDSVMLNGFGTVVNALGKRVKPYLPQICGTVLWRLNNKSAKVRQQAADLISRTAV  
VMKTCQEEKLMGHLGVVLYEYLGE EYPEVLGSILGALKAI NVIGMHKMTPIKDLLPRL  
TPILKNRHEKVQENCIDLVGRIADRGAEYVSAREWMRICFELLELLKAHKKAIRRATVNT  
FGYIAKAIGPHDVLATLLNNLKVQERQNRVCTTVAIAIVAETCSPFTVLPALMNEYRVPE  
LNVQNGVLKSLSFLFEYIGEMGDYIYAVTPLLEDALMDRDLVHRQTASAVVQHMSLGVY  
GFGCEDSLNHLNYYWPNVFETSPHVIQAVMGALEGLRVAIGPCRMLQYCLQGLFHPARK  
VRDVYWKIYNSIYIGSQDALIAHYPRIYND DKNTYIRYELDYIL

>sp|Q86XK3|SFR1\_HUMAN Swi5-dependent recombination DNA repair protein 1 homolog OS=Homo sapiens GN=SFR1 PE=1 SV=2

MAEGEKNQDFTFKMESPSDSAVVLPSTPQASANPSSPYTNSSRKQPM SATLRERLRKTRF  
SFNSSYNVVKRLKVESEENDQTFSEKPASSTEENCLEFQESFKHIDSEFEENTNLKNTLK  
NLNVCESQSLDSGSCSALQNEFVSEKLPKQRLNAEKAKLVKQVQEKEDLLRRLKLVKMYR  
SKNDLSQLQLLIKWRSCS QLLLYELQSAVSEENKKLSLTQLIDHYGLDDKLLHYNRSEE  
EFIDV

>sp|Q8TD22|SFXN5\_HUMAN Sideroflexin-5 OS=Homo sapiens GN=SFXN5 PE=1 SV=1

MADTATTASAAAASAASASSDAPPFQLGKPRFQQTSFYGRFRHFLDIIDPRTLFTERRL  
REAVQLLEDYKHGTLRPGVTNEQLWSAQKIKQAILHPDTNEKIFMPFRMSGYIPFGTPIV  
VGLLLPNQTLASTVFWQWLNQSHNACVNYANRNATKPSASKFIQGYLGAVISAVSIAVG  
LNLVQKANKFTPATRLLIQRFPFPAVASANICNVLMRYGELEEGIDVLDSG NLVGS  
SKIAARHALLETALTRVLPMPILVLPPIVMSMLEKTALLQARPRLLLPVQSLVCLAAFG  
LALPLAISLFPQMSEIETSQLEPEIAQATSSRTVVYNKGL

>sp|095969|SG1D2\_HUMAN Secretoglobin family 1D member 2 OS=Homo sapiens GN=SCGB1D2 PE=2 SV=1

MKLSVCLLLVTLALCCYQANA EFCPALVSELDDFFFI SEPLFKLSLAKFDAPPEAVA AAKL  
GVKRCTDQMSLQKRSLIAEVLVKILKKCSV

>sp|Q13296|SG2A2\_HUMAN Mammaglobin-A OS=Homo sapiens GN=SCGB2A2 PE=1 SV=1

MKLLMVLMLAALSQHCYAGSGCPLEENVISKTNPQVSKTEYKELLQEFIDDNATTNAID  
ELKECFLNQTDETLSNVEVFMQLIYDSSLCDLF

>sp|Q96PL1|SG3A2\_HUMAN Secretoglobin family 3A member 2 OS=Homo sapiens GN=SCGB3A2 PE=2  
SV=1

MKLVITIFLLVTISLCSYSATAFLINKVPLPVDKLAPLPLDNILPFMDPLKLLKTLGISV  
EHLVEGLRKCVNELGPEASEAVKKLLEALSHLV

>sp|Q96LW2|SG494\_HUMAN Uncharacterized serine/threonine-protein kinase SgK494 OS=Homo  
sapiens GN=SGK494 PE=2 SV=1

MGAVSCRQGGHTQQGEHTRVAVPHKQGGNIRGPWARGWKSLSWTGLGTIRSDLEELWELRG  
HHYHQQESLKPAVPLEVEKPLPEWPVPQFINLFLPEFPIRPIRGQQQLKILGLVAKGSFGT  
VLKVLDTQKAVFAVKVVPKVVLQRDTRVQCKEEVSIQRQINHPFVHSLGDSWQGKRHL  
FIMCSYSTDLYLSWAVGCFPEASIRLFAAELVLVLCYLHDLGIMHRDVKMENILLDER  
GHLKLTDFGLSRHVPQGAQAYTICGTLQYMERG

>sp|Q13326|SGCG\_HUMAN Gamma-sarcoglycan OS=Homo sapiens GN=SGCG PE=1 SV=4

MVREQYTTATEGICIERPENQYVYKIGIYGWRKCLYLVLLLLIILVNLALTIWILKV  
MWFSPAGMGHLCVTKDGLRLEGESEFLFPLYAKEIHSRVDSSLLQSTQNVTVNARNSEG  
EVTGRLKVGPKMVEVQNNQFQINSNDGKPLFTVDEKEVVVGTDKLRVTGPEGALFEHSVE  
TPLVRADPFQDLRLSPTRSLMDAPRGVHIQAHAQIEALSQMDILFHSSDGMLVDAE  
TVCLPKLVQGTWGPSGSSQSLYEICVCPDGKLYLSVAGVSTTCQEHNHICL

>sp|Q562F6|SGO2\_HUMAN Shugoshin 2 OS=Homo sapiens GN=SGO2 PE=1 SV=2

MECPVMETGSLFTSGIKRHLKDKRISKTTKLNVLASKIKTKILNNSIFKISLKHNNRA  
LAQALSREKENSRRITTEKMLLQKEVEKLNFEFTFLRLKLNLNKKLIDIEALMNNNLIT  
AIEMSSLSEFHQSSFLLSASKKKRISKQCKLMRLPFARVPLTSNDDEDEDKEKMQCDNNI  
KSKTLPDIPSSGTTQPLSTQDNSEVLFLKENNQNVYGLDDSEHISIVDVPPRESHS  
DQSSKTSLSMSEMRNAQSIGRRWEKPSPSNVTERKKRGSSWESNNLSADTPCATVLDKQHI  
SSPELNCNNEINGHTNETNTMQRNKQDLPLGLSSESAREPNAECMNQIEDNDDFQLQKTV  
YDADMDLTASEVSKIIVTVSTGIKKKSNNKTNEHGMKTFRKVKDSSEKKRERSKRQFKNS  
SDVDIGEKIENRTERSDVLGKGAEDPGFIFNNEQLAQMNEQLAQVNELKKMTLQTGF  
QGDRENVLCNKKEKRITNEQEETYSLSQSSGKFHQESKFDKGQNSLTCNKSASRQTFVI  
HKLEKDNLLPNQKDKVTIYENLDVTNEFHTANLSTKDNGNLCDYGTHNILDKKYVTDIQ  
PSEQNESNINKLRKKVNRKTEIISGMNHMYEDNDKDVHGLKKNFFFKTQEDKEPISEN  
IEVSKELQIPALSTRDNENQCDYRTQNVGLGLQKQITNMYPVQQNESKVNKKLRQKVNRT  
EIISEVNHLNDNKSIEYTVKSHSLFTQKDKEIIPGNLEDPSEFETPALSTKDSGNLYDS  
EIQNVLGVKHGHDMQPACQNDISKIKKPRNLNVCQKSEIIPETNQIYENDNKGVDLEKDN  
FFSLTPKDKETISENLQVTNEFQTVDLLIKDNGNLCDYDTQNI LELKKYVTDKSAEQNE  
SKINKLRNKVNWKTEIISEMNQIYEDNDKDAHVQESYTKDLDFKVNKSKQKLECQDIINK  
HYMEVNSNEKESCDQILDSYKVVKKRKESSCKAKNILTAKNKLASQLTESSQTSISLE  
SDLKHITSEADSDPGNPVELCKTQKQSTTTLNKKDLPFVEEIKEGECQVKVNKMTSKSK  
KRKTSIDPSPESHEVMERILDSVQGGKSTVSEQADKENNLENEKVMKNKPDFYTKAFRSL  
EIHSPNIQDSSFSVREGLVPLSVSSGKNVIKENFALECSPAFQVSDDEHEKMNMKMKFK  
VNRRTQKSGIGDRPLQDLSNTSFVSNNTAESENKSEDLSSERTSRRRRCTPFYFKEPSLR  
DKMRR

>sp|PODL12|SIM17\_HUMAN Small integral membrane protein 17 OS=Homo sapiens GN=SMIM17 PE=4  
SV=1

MQSLRPEQTRGLLEPERTKLLPRESRAWEKPPHPACTKDWEAVEVGASSHDSDEKDLSS

QETGLSQEWSSVEEDDESEGSQGFVWSKAPQQTIVLVVCLFLFLVLTGMPMMFHI

>sp|075264|SIM24\_HUMAN Small integral membrane protein 24 OS=Homo sapiens GN=SMIM24 PE=2 SV=2

METLGALLVLEFLLSPVEAAQATEHRLKPWLVLAAVVGFLFIVYLVLLANRLWCSKAR

AEDEEETTFRMESNLYQDQSEDKREKKEAKEKEEKRRKKEKTAKEGESNLGLDLEEKEPG

DHERAKSTVM

>sp|Q8NDZ2|SIMC1\_HUMAN SUMO-interacting motif-containing protein 1 OS=Homo sapiens GN=SIMC1 PE=1 SV=3

MAPASASGEDLRKLPTMAEVNGEQDFIDLTRETRPRTKDRSGLYVIDLTRAEGENRPIAT

LDLTLEPVTSPQKEPTSLQTCASLSGKAVMEGHVDRSSQPTARRI INSDPVDLDLVEENT

FVGPPPATISIGGSVYPTEPNCSSATFTGNLSFLASLQLSSDVSSLSPSTNNRSSSSSS

NQKAPLPCPQQDVSRRPPQALPCPLRPLPCPPRASPCPPRASSCPPRALSCPSQTMQCQLP

ALTHPPQEVPCPRQNIQPPQDLSGLPQDVPGLPQSILHPQDVAYLQDMPRSPGDVPQSP

SDVSPSPDAPQSPGGMPHLPGDVLHSPGDMPHSSGDVTHSPRDIPHLPGDRPDFTQNDVQ

NRDMPMDISALSSPSCSPSPQSETPLEKVPWLSVMEPARKEISLSEPAKPGSAHVQSRT

PQGGLYNRPCHLRLKYFLRPPVHHLFFQTLIPDKDTRENKGQKLEIPHRRLRMVTNTIE

ENFPLGTVQFLMDFVSPQHYPREIVAHIIQKILLSGSETVDVLKEAYMLLMKIQQLHPA

NAKTVEWDWKLITYVMEEEGQTLPGRVLFLRYVVQTLDDFQQTLRRQRQHLQQS IANMV

LSCDKQPHNVRDVIKWLKAVTEDGLTQPPNGNQTSSTGILKASSSHPSQPNLTNTN

QLIVCQLQRMLSI AVEVDRTPTCSSNKIAEMMFGFVLDIPERSQREMFFTMEHLLRCK

VLEIIFLHSCETPTRLPLSLAQALYFLNNSTSLKQCSDKSQWQTWDELVEHLQFLSSY

QHVLREHLRSSVIDRKDLIIKRIKPKPQQGDDITVVDVEKQIEAFRSRLIQMLGEPLVPQ

LQDKVHLLKLLLFYAADLNPDAPFPQKGWSGS

>sp|000241|SIRB1\_HUMAN Signal-regulatory protein beta-1 OS=Homo sapiens GN=SIRPB1 PE=1 SV=5

MPVPASWPHLPSPFLLMTLLLGRLTGVAGEDELQVIQPEKSVSVAAGESATLRCAMTSLI

PVGPIMWFRGAGAGRELIYNQKEGHFPRVTTVSELTKRNNLDFSISISNITPADAGTYYC

VKFRKGSPDDVEFKSGAGTELSVRAKPSAPVVSGPAVRATPEHTVSFTCESHGFSRPDIT

LKWFKNGNELSDFQTNVDPAGDSVSYIHSTARVVLTRGDVHSQVICEIAHITLQGDPLR

GTANLSEAIRVPPTLEVTQQPMRAENQANVTCQVSNFYPRGLQLTWLENGNVSRTEAST

LIENKDGTYNWSWLLVNTCAHRDDVLTQVEHDGQAVSKSYALEISAHQKEHGS DIT

HEAALAPTAPLLVALLLGPKLLLVGVSAIYICWKQKA

>sp|Q5TFQ8|SIRBL\_HUMAN Signal-regulatory protein beta-1 isoform 3 OS=Homo sapiens GN=SIRPB1 PE=1 SV=1

MPVPASWPHLPSPFLLMTLLLGRLTGVAGEEELQVIQPKSISVAAGESATLHCTVTS LI

PVGPIQWFRGAGPGRELIYNQKEGHFPRVTTVSDLTNRNNMDFSIRISNITPADAGTYYC

VKFRKGSPDHVEFKSGAGTELSVRAKPSAPVVSGPAARATPQHTVSFTCESHGFSRPDIT

LKWFKNGNELSDFQTNVDPAGDSVSYIHSTAKVVLTRDVDHSQVICEVAHVTLQGDPLR

GTANLSETIRVPPTLEVTQQPRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTEAST

LTENKDGTYNWSWLLVNVSAHRDDVKLTQVEHDGQPAVSKSHDLKVS AHPKEQGSNTA

PGPALASAAPLLIAFLLGPKVLLVGVSVIYVYWKQKA

>sp|O15304|SIVA\_HUMAN Apoptosis regulatory protein Siva OS=Homo sapiens GN=SIVA1 PE=1 SV=2



MPKRSCPFADVAPLQLKVRVSQRELSRGVCAERYSQEVFEKTKRLLFLGAQAYLDHVWDE  
GCAVVHLPESPKEGPTGAPRAARGQMLIGPDGRLIRSLGQASEADPSGVASIIACSSCVRA  
VDGKAVCGQCERALCGQCVRTCWCGGSVACTLCGLVDCSDMYEKKVLTSCAMFET

>sp|095475|SIX6\_HUMAN Homeobox protein SIX6 OS=Homo sapiens GN=SIX6 PE=1 SV=2

MFQLPILNFSPQQVAGVCETLEESGDVERLGRFLWSLPVAPAACEALNKNESVLRARAIV  
AFHGGNYRELYHILENHKFTKESHAKLQALWLEAHYQAEKLRGRPLGPVDKYRVRKKFP  
LPRTIWDGEQKTHCFKERTRHLLREWYLQDPYPNPSKKRELAQATGLTPTQVGNWFKNRR  
QRDRAAAAKNRLQQVLSQGSGRALRAEGDGTPEVLGVATSPAASLSSKAATSAISITSS  
DSECDI

>sp|P12755|SKI\_HUMAN Ski oncogene OS=Homo sapiens GN=SKI PE=1 SV=1

MEAAAGGRGCFQHPHGLQKTLEQFHLSSMSSLGGPAAFSARWAQEAYKKESAKEAGAAAV  
PAPVPAATEPPPVHLPAIQPPPPVLPGPFFMPDRSTERCETVLEGETISCFVVGGEKR  
LCLPQILNSVLRDFSLLQINAVCDELHIYCSRCTADQLEILKVMGILPFSAPSCGLITKT  
DAERLCNALLYGGAYPPPCKKELAAASLALGLELSERSVRVYHECFGKCKGLLVPELYSSP  
SAACIQCLDCRLMYPPHKFVVHSHKALENRTCHWGFDSANWRAYILLSQDYTGKEEQARL  
GRCLDDVKEKFDYGNKYKRRVPRVSSEPPASIRPKTDDTSSQSPAPSEKDKPSSWLRTLA  
GSSNKSGLGCVHPRQRLSAFRPWSPAVSASEKELSPHLPALIRDSFYYSKSFETAVAPNVA  
LAPPAQQKVVSPPCAAASRAPEPLATCTQPRKRKLTVDTPGAPETLAPVAAPEEDKDS  
EAEVEVESREEFTSSLSSSPSTSSSSAKDLGSPGARALPSAVPDAAAPADAPSGLEA  
ELEHLRQALEGLDTKEAKEKFLHEVVKMRVKQEEKLSAALQAKRSLHQELEFLRVAKKE  
KLREATEAKRNLRKEIERLRAENEKKMEANESRLRLKRELEQARQARVCDKGCEAGRLR  
AKYSAQIEDLQVKLQHAADREQLRADLLREREAREHLEKVVKELQEQLWPRARPEAAGS  
EGAAELEP

>sp|Q96T83|SL9A7\_HUMAN Sodium/hydrogen exchanger 7 OS=Homo sapiens GN=SLC9A7 PE=1 SV=1

MEPGDAARPGSGRATGAPPPRLLLPLLLGWGLRVAAAASASSSGAAEDSSAMEELATE  
KEAEESHQRQDSVSLTLTIFLLTLTLTIWLFKHRRVRFLHETGLAMIYGLIVGVILRYGT  
PATSGRDKSLSCTQEDRAFSTLLNVNVSQKFFEYTLKGEISPGKINSVEQNDMLRKVT FDP  
EVFFNILLPPIIFHAGYSLKKRHFFRNLSILAYAFGLTAVSCFIIGNLMYGVVVKMKIM  
GQLSDKFYYTDCLFFGAIISATDPVTVLAI FNELHADVDLYALLFGESVLNDAVAIVLSS  
SIVAYQPAGLNTHAFDAAAFKSVGIFLGIFSGSFTMGAVTG VNANVTKFTKLHCFPLLE  
TALFFLMSWSTFLLAECGFTGVAVLFCGITQAHYTYNNLSVESRSRTKQLFEVLHFLA  
ENFIFSYMGLALFTFQKHVFSPIFIIGAFVAIFLGRAAHYIPLSFFLNLRHKGWVNFQ  
HMMMFSGLRGAMAFALAIRDTASYARQMMFTTLLIVFFT VWIIGGGTTPMLSWLNIRVG  
VEEPSEEDQNEHHWQYFRVGVDPDQDPPPNND SFQVLQGDGPDSARGNRKQESAWIFRL  
WYSFDHNYLKPILTHSGPPLTTTLPAWCGLLARCLTSPQVYDNQEPLREEDSDFILTEGD  
LTLTYGDSTVTANGSSSSHTASTSLEGSRRTKSSSEEVLERDLGMGDQKVSSRGTRLVFP  
LEDNA

>sp|Q4G0N8|SL9C1\_HUMAN Sodium/hydrogen exchanger 10 OS=Homo sapiens GN=SLC9C1 PE=2 SV=2

MAGIFKEFFFSTEDLPEVILTSLISSIGAFLNRHLED FIPVPVILFLLGCSFEVLSFT  
SSQVQRYANAIQWMSPD LFFRIFTPVVFFTTAFDMDTYMLQKLFWQILLISIPGFLVNYI  
LVLWHLASVNQLLKPTQWLLFSAILVSSDPMLTAAAIRDLGLSRSLISLINGESLMTSV  
ISLITFTSIMDFDQRLQSKRNHTLAEIIVGGICSYIIASF LFGILSSKLIQFWMSTVFGD  
DVNHISLIFSILYILIFYICELVGMSGIFTLAIVG LLLNSTSFKAAIEETLLLEFWTFLSR  
IAFLMVFTFFGLLIPAHTYLYIEFVDIYYS LNIYLT LIVLRFLTLLLISPVL SRVGHEFS

WRWIFIMVCSEMGMPNINMALLAYSDFGSDKEKSQILFHGVLVCLITLVVNRFILP  
VAVTILGLRDATSTKYKSVCCTFQHFQELTKSAASALKFDKDLANADWNMIEKAITLENP  
YMLNEEETTEHQVKVCPHCNKEIDEIFNTEAMELANRRLLSAQIASYQRQYRNEILSQSA  
VQVLVGAAESFGEKKGKMSLDTIKNYSESQKTVTFAKLLLNNVYNTRKEKEGPSKYFF  
FRICHTIVFTEFEHVGYLVILMNIFPFIISWISQLNVIYHSELKHTNYCFLTLYILEAL  
LKIAAMRKDFFSHAWNIFELAITLIGILHVILIEIDTIKYIFNETEVIVFIKVVQFFRIL  
RIFKLIAPKLLQIIDKRMSHQKTFWYGILKGYVQGEADIMTIIDQITSSKQIKMLLKQV  
IRNMEHAIKELGYLEYDHPETIAVTVKTEEINVMLNMATEILKAFGLKGIISKTEGAGIN  
KLIMAKKEVLDSQSIIRPLTVEEVLYHIPWLDKNKDYINFIQEKAKVVTDFCNDIFEE  
GDEPKGIYIIISGMVKLEKSKPGLGIDQMVESKEKDFPIIDTDYMLSGEIIGEINCLTNE  
PMKYSATCKTVVETCFIPKTHLYDAFEQCSPLIKQKMWLKGLAITARKIREHLSYEDWN  
YNMQLKLSNIYVVDIPMSTKTDIYDENLIYVILIHGAVEDCLLRKTYRAPFLIPITCHQI  
QSIEDFTKVVI IQTPINMKTFRRNIRKFVPKHKSYLTPGLIGSVGTLEEGIQEERNVKED  
GAHSAATARSPQPCSLGTFKFNCKESPRINLRKVRKE

>sp|Q9UIB8|SLAF5\_HUMAN SLAM family member 5 OS=Homo sapiens GN=CD84 PE=1 SV=1

MAQHHLWILLCLQTWPEAAGKDSEIFTVNGILGESVTFPVNIQEPQVKIIAWTSKTSV  
AYVTPGDSETAPVVTVTHRNYYERIHAGPNYNLVISDLRMEDAGDYKADINTQADPYTT  
TKRYNLQIYRRLGPKITQSLMASVNSTCNVTLTCSVEKEEKNVTYNWSPLGEEGNVLQI  
FQTPEDQELTYTCTAQNPVSNNSDSISARQLCADIAMGFRTHHTGLLSVLAMFFLLVLIL  
SSVFLFRLFKRRQGRIFPEGSCLTFTKNPYAASKKTIYTYIMASRNTQPAESRIYDEIL  
QSKVLPSKEEPVNTVYSEVQFADKMGKASTQDSKPPGTSSYEIVI

>sp|Q9P270|SLAI2\_HUMAN SLAIN motif-containing protein 2 OS=Homo sapiens GN=SLAIN2 PE=1 SV=2

MEDVNSNVNADQEVRLQELVKKLEKQNEQLRSRSGAVQGAGSLGPGSPVRAGASIPSSG  
AASPRGFPLGLSAKSGGGPGSGPRRTSSEELRDATSLLAAGEGGLLDEVEPLRPDELERL  
SGWEEEEESWLYSSPKKKLTPMQKSVSPLVWCRQVLDYPSPDVECAKKSIIHKLDQTMSA  
LKRQNLNPNPFNSMSYTSYSPNASSPYSSGFNSPSTPVRPPIVKQLILPGNSGNLKSS  
DRNPPLSPQSSIDSELSASELDEDSIGSNYKLNVDVQILARMQEESLRQEYAATTSRR  
SSGSSCNSTRGTFSQELDAQSLDDEDDNMHHAVYPAVNRFSPPRNSPRPSPKQSPRN  
SPRSRSPARGIEYSRVSPQPMISRLQQPRLSLQGHPTDLQTSNVKNEEKLRRSLPNLSRT  
SNTQVDSVKSSRSDSNFQVPNGGIPRMQPQASAIPSPGKFRSPAAPSPLALRQPVKAFSN  
HGSGSPGSQEITQLTQTSSPGPPMVQSTVSANPPSNINSATLTRPAGTTAMRSGLPSPS  
APSAGGIPVPRSKLAQPVRRLPAPKTYGSMKDDSWKDGCY

>sp|Q13239|SLAP1\_HUMAN Src-like-adaptor OS=Homo sapiens GN=SLA PE=1 SV=3

MGNSMKSTPAPAERLPNPEGLDSDFLAVLSDYSPDISPPIFRERGEKLRVISDEGGWWK  
AISLSTGRESYIPGICVARVYHGWLFEGLGRDKAEELLQLPDTKVGSMIRESETKKGFY  
SLSVRHRQVKHYRIFRLPNNWYYISPRLTFQCLEDLVNHYSEVADGLCCVLTPCLTQST  
AAPAVRASSSPVTLRQKTVDWRRVSRLQEDPEGTENPLGVDESLSYGLRESIASYLSLT  
SEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

>sp|Q68D06|SLN13\_HUMAN Schlafen family member 13 OS=Homo sapiens GN=SLFN13 PE=2 SV=1

MEANHCSLGVYPSYPDLVIDVGEVTLGEENRKKLQKTQRDQERARVIRAACALLNSGGGV  
IQMEMANRDERPTMGLDLEESLRKLIQYPYLQAFFETKQHGRCFYIFVKSWSGDPFLKD  
GSFNSRICSLSSSLYCRSGTSVLHMNSRQAFDFLTKERQSKYNLINEGSPPSKIMKAVY  
QNISESNPAYEVFQTDITIEYGEILSFPEPSIEFKQFSTKHIQQYVENI IPEYISAFANT

EGGYLFIGVDDKSRKVLGCAKEQVDPDSLKNVIARAISKLPVHFCSKPRVEYSTKIVE  
VFCGKELYGYLCVIKVKAFCCVVFSEAPKSWMVREKYIRPLTTEEWVEKMMADPEFPPD  
FAEAFESQLSLSDSPSLCRPVYSKKGLEHKADLQQHLFPVPPGHLECTPESLWKELSLQH  
EGLKELIHKQMRPFSQGIVILSRSWAVDLNLQEKPGVICDALLIAQNSTPILYITILREQD  
AEGQDYCTRFTAFTLKQKLVNMGGYTGKVCVRAKVLCLSPESSAEALEAAVSPMDYPASYS  
LAGTQHMEALLQSLVIVLLGFRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGL  
PGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFISDRNICRAETRETFLREKFE  
HIQHIVIDEAQNFRTEGDWYRKAKTITQREKDCPGVLWIFLDYFQTSHLGHSGLPPLSA  
QYPREELTRVVRNADEIAEYIQEQMLI IENPPINIPHYLAILEAKWVPGVPGNTKII  
KNFTLEQIVTYVADTCRCFFERGYSKPDVAVLVSTVTEVEQYQSKLLKAMRKKMVVQLSD  
ACDMLGVHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNILICLASRAKQHLYIFL

>sp|Q9C0A6|SETD5\_HUMAN SET domain-containing protein 5 OS=Homo sapiens GN=SETD5 PE=1 SV=2

MSIAIPLGVTTSDTSYSDMAAGSDPESVEASPAVNEKSVYSTHNYGTTQRHGCRGLPYAT  
IIPRSDLNGLPSPVEERCGDSPNSEGETVPTWCPCGLSQDGFLLNCDKCRGMSRGKVIRL  
HRRKQDNISGGDSSATESWDEELSPSTVLYTATQHTPTSITLTVRRTPKPKRKKKSPEKGR  
AAPKTKKIKNSPSEAQNLDENTTEGWENRIRLWTDQYEEAFTNQYSADVQNALEQHLHSS  
KEFVGKPTILDTINKTELACNNTVIGSQMQLQLGRVTRVQKHKILRAARDLALDTLIE  
YRGKVMLRQQFEVNGHFFKKPYPFVLFYSKFNGVEMCVDARTFGNDARFIRRSTPNAEV  
RHMIADGMIHLICIYAVSAITKDAEVTIAFDYEYSNCNYKVDCACHKGNRNCP IQKRNPN  
TELPLPPPPSLPTIGAETRRRKARRKELEMEQQNEASEENNDQQSQEVPEKVTVSSDHE  
EVDNPEEKPEEEKEEVIDDQENLAHSRRTREDRKVEAIMHAFENLEKRKKRRDQPLEQSN  
SDVEITTTTSETPVGEETKTEAPESEVSNVSNVTIPSTPQSVGVNTRRSSQAGDIAAEK  
LVKPPPAKPSRPRPKSRI SRYRTSSAQRLKRQKQANAQQAELSQAAL EEGGSNSLVPT  
EAGSLDSSGENRPLTGS DPTVVSITGSHVNRAASKYPKTKKYLVT EWLNDKAEKQEC PVE  
CPLRITDPTVLATTLNMLPGLIHSPLICTTPKH YIRFGSPFIPERRRRPLLPDGT FSSC  
KKRWIKQALEEGMTQTSSVPQETRQHLYQSNENSSSSSICKDNADLLSPLKKWKSRYLM  
EQNVTKLLRPLSPVTPPPPN SGSKSPQLATPGSSHPGEEECRNGYSLMFSPVTSLT TASR  
CNTPLQFELCHRKDLDAKVG YLDSNTNSCADRPSLLNSGHSDLAPHPSLGPTSETGFPS  
RSGDGHQTLVRNSDQAFRTEFNLMYAYSPLNAMPRADGLYRGSPLVGDRKPLHLDGGYCS  
PAEGFSSRYEHGLMKDLSRGSLS PGGERACEGVPSAPQNPPQRKKVSLLEYRKRKQEAKE  
NSAGGGGDSAQSKS SAGAGQGSSNSVSDTGAHGVQGSSARTPSSPHKKFSPSHSSMSHL  
EAVSPSDSRGTSSSHCRPQENISSRWMVPTSVERLREGGSIPKVLRSSVRVAQKG EPSPT  
WESNITEKSDPADGEGPETLSSALSKGATVYSPSRYSYQLLQCDS PRTESQSLLQQSSS  
PFRGHPTQSPGYSYRTALRPGNPPSHGSS ESSLSTSYSSPAHPVSTD SLAPFTGT PGY  
FSSQP HSGNSTGSNLPRRSCPSAA SPTLQGPSDSPTS DSVS QSSTGTL SSTSFPQNSRS  
SLPSDLRTISLPSAGQSAVYQASRVSAVSN SQHYPHRGS GG VHQYRLQLQ GSGVKTQTG  
LS

>sp|P23246|SFPQ\_HUMAN Splicing factor, proline- and glutamine-rich OS=Homo sapiens  
GN=SFPQ PE=1 SV=2

MSRDRFRSRGGGGGGFHRRGGGGGRGGLHDFRSPPPGMGLNQNRGPMGPGPGQSGPKPPI  
PPPPPHQQQQPPPPQPPPPQPPPHQPPPHQPHQQQQPPPPPDSSKPVVAQGP GPAPG  
VGSAPPASSAPPATPPTSGAPPGSGPGTPTPPPAVTSAPPGAPPTPPSSGVPTTPPQ  
AGGPPPPPAAVPGPGPGPKQPGPGGPKGGKMPGGPKGGGPGLSTPGGHPKPPHRGGGE  
PRGGRQHHPHYHQHHQGPPPGPGGRSEEKISDSEGFKANLSLLRRPG EKYTQRCRLF

VGNLPADITEDEFKRLFAKYGEPGEVFINKGKGFGFIKLESRALAEIAKAELDDTPMRGR  
QLRVRFATHAAALSVRNLSPIVSNELLEAFSQFGPIERAVVIVDDRGRSTGKGIVEFAS  
KPAARKAFERCSEGVFLTTTPRPVIVEPLEQLDDEDGLPEKLAQKNPMYQKERETPPRF  
AQHGTFEYEYSQRWKSLEMEKQKREQVEKNMKDAKDKLESEMEDAYHEHQANLLRQDLM  
RRQEELRRMEELHNQEMQKRKEMQLRQEEERRRREEEMMIRQREMEEQMRRQREESYSRM  
GYMDPRERDMRMGGGGAMNMGDPYGSQQKFPPLGGGGIGYEANPGVPPATMSGSMMS  
DMRTERFGQGGAGPVGGQGPGRMGPGTPAGYGRGREEYEGPNKKPRF

>sp|Q6FHJ7|SFRP4\_HUMAN Secreted frizzled-related protein 4 OS=Homo sapiens GN=SFRP4 PE=1  
SV=2

MFLSILVALCLWLHLALGVRGAPCEAVRIPMCRHMPWNITRMPNHLHHSTQENAILAIEQ  
YEELVDVNCSAVLRFFLCAMYAPICTLEFLHDPIKPKSVCQRARDDCEPLMKMYNHSWP  
ESLACDELPHYDRGVCISPEAIVTDLPEDVKWIDITPDMMVQERPLDQCKRLSPDRCKC  
KKVKPTLATYLSKNYSYVIHAKIKAVQRSGCNEVTTVVDVKEIFKSSSPIRPTQVPLITN  
SSCQCPHILPHQDVLIMCYEWSRMMLENCLEKWRDQLSKRSIQWEERLQEQRRTVQD  
KKKTAGRTSRSNPPKPKGKPPAPKPASPKKNIKTRSAQKRTNPKRV

>sp|Q8WV19|SFT2A\_HUMAN Vesicle transport protein SFT2A OS=Homo sapiens GN=SFT2D1 PE=1  
SV=1

MEKLRRVLSGQDDEEQGLTAQVLDASSLSFNTRLKWFAICFVCGVFFSILGTGLLWLPGG  
IKLFAVFYTLGNLAALASTCFLMGPVKQLKKMFEATRLLATIVMLLCFIFTLCAALWWHK  
KGLAVLFCILQFLSMTWYLSYIPYARDAVIKCCSSLLS

>sp|P35247|SFTPD\_HUMAN Pulmonary surfactant-associated protein D OS=Homo sapiens GN=SFTPD  
PE=1 SV=3

MLLFLLSALVLLTQPLGYLEAMKTYSHRTMPSACTLVMCSSVESGLPGRDGRDGREGPR  
GEKGDPLPGAAGQAGMPGQAGPVGPKGDNGSVGEPGPKGDTGPSGPPGPPGVPGPAGRE  
GPLGKQGNIGPQKGPKEAGPKGEVGAPGMQGSAGARGLAGPKGERGVPGERGVPGNT  
GAAGSAGAMGPQGSFGARGPPGLKGDGKIPGDKGAKGESGLPDVASLRQQVEALQGQVQH  
LQAAFSQYKKVELFPNGQSVGEKIFKTAGFVKPFTEAQLLCTQAGGQLASPRSAENAAL  
QQLVVAKNEAAFLSMTDSKTEGFTYPTGESLVYSNWAPGPNDDGGSEDCVEIFTNGKW  
NDRACGEKRLVVCEF

>sp|Q9H9B4|SFXN1\_HUMAN Sideroflexin-1 OS=Homo sapiens GN=SFXN1 PE=1 SV=4

MSGELPPNINIKEPRWDQSTFIGRANHFFTVDPRNILLTNEQLESARKIVHDYRQGIVP  
PGLTENELWRAKYIYDSAFHPDTGEKMILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFW  
QWINQSFNAVNNYTNRSGDAPLTVNELGTAYVSATTGAVATALGLNALTKHVSPLIGRFV  
PFAAVAAAANCINIPLMRQRELKVGIPVTDENGRLGESANAAKQAITQVVVSRILMAAPG  
MAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFLVFATPLCCALFPQKSSMSVTSLEA  
ELQAKIQESHPELRRVYFNKGL

>sp|PODMR2|SG1C2\_HUMAN Secretoglobin family 1C member 2 OS=Homo sapiens GN=SCGB1C2 PE=3  
SV=1

MKGSRAALLVALTLFCICRMATGEDNDEFFMDFLQTLVGTPEELYEGTLGKYNVNEDAK  
AAMTELKSCRDGLQPMHKAELVKLLVQVLGSQDGA

>sp|Q86YV5|SG223\_HUMAN Tyrosine-protein kinase SgK223 OS=Homo sapiens GN=SGK223 PE=1 SV=4

MHQTLCLNPESLKMSACSDFEHIWKPGSCKNCFCLRSDHQLVAGPPQPRAGSLPPPPRL  
PPRPENCRLEDEGVNSSPYSKPTIAVKPTMMSSEASDVWTEANLSAEVSQVIWRRAPGKL  
PLPKQEDAPVVYLGSRGVQKAPGSTSPDGNSRCPAYTMVGLHNLEPRGERNIAFHPV

SFPEEKAVHKEKPSFPYQDRPSTQESFRQKLAAGAGTTSCHQGPGLRESLPSEDDSDQ  
RCSPSGDSEGGEYCSILDCCPGSPVAKAASQTAGSRGRHGGRDCSPTCWEQKCSGPAEQ  
EKRGPSFPKECCSQGPTAHPSCLGPKKLSLTSEAAISSDGLSCGSGSGSGSASSPFVPH  
LESDYCSLMKEPAPEKQDQPGCPGVTPSRCLGLTGEPQPPAHPREATQPEPIYAESTKRK  
KAAPVPSKSKAKIEHAAAAQGGQVCTGNAWAQKAASGWGRDSPDPTPQVSATITVMAAH  
PEEDHRTIYLSSPDSAVGVQWPRGPVSNSEVGEEETSAGQGLSSRESHAHSASESKPKE  
RPAIPPKLSKSSPVGSPVSPSAGPPVSPLADLSDGSSGGSSIGPQPPSQGPADPAPSCR  
TNGVAISDPSPRCQPAASSASEQRRPRFQAGTWSRQCRIEEEEVEQELLSHWSGRETKN  
GPTDHSNSTTWHRLHPTDGSSGQNSKVGTMKSASFATFEPKDRSGIETFSPPPPPKS  
RHLLKMNKSSSDLEKVSQGSASLSPSFRGVHVSFTTGSTDLSASDRTCSDDGPPSSELA  
HSPTNSGKKLFAPVPFSGSTEDVSPSGPQQPPPLPQKKIVSRAASSPDGFFWTQGSPPK  
GTASPKLNLHSETNVHDESHFSYSLSPGNRHHPVFSSDPLEKAFKSGHWPAAAGLAG  
NRGGCGSPGLQCKGAPSASSSQSVSSQASTGSTQLQLHGLLSNISKEGTYAKLGGLYT  
QSLARLVAKCEDLFMGGQKKELHFNENNWSLFLKLTCKNPCCDSGDAIYYCATCSEDPGST  
YAVKICKAPEPKTVSYCSPSPVHFNIQQDCGHFVASVPSSMLSSPDAPKDPVPALPHTP  
PAQEQQDCVVVITREVPHQTASDFVRDSAASHQAEPAYERRVCFLLLQLCNGLEHLKEHG  
IHRDLCLNLLLHCTLQAGPGPAPAPAPAPAAAAAPCASSAAPPAGGTLSAAGPAS  
PEGPREKQLPRLIISNFKAKQKPGGTPNLQKKKSQARLAPEIVSASQYRKDEFQGTGIL  
IYELLHQPNPFVRAQLRERDYRQEDLPPLPALSLYSPGLQQLAHLLEADPIKRIRIGE  
AKRVLQCLLWGPRLRELQVQPGTSEEALCGTLHNWIDMKRALMMMKFAEKAVDRRRGVELE  
DWLCCQYLASAEPGALLQSLKLLQLL

>sp|Q96QR1|SG3A1\_HUMAN Secretoglobin family 3A member 1 OS=Homo sapiens GN=SCGB3A1 PE=1  
SV=2

MKLAALLGLCVALSCSSAAAFVLSAKPVAQPVAALESAAEAGAGTLANPLGTLNPLKLL  
LSSLGIPVNHLEGSQKCAELGPQAVGAVKALKALLGALTVFG

>sp|Q16585|SGCB\_HUMAN Beta-sarcoglycan OS=Homo sapiens GN=SGCB PE=1 SV=1

MAAAAAAAEQSSNGPVKSKMREKAVERRSVNKEHNSNFKAGYIPIDEDRLHKTGLRGR  
KGNLAICVILLFILAVINLIITLVIWAVIRIGPNGCDSEFHESSGLLRFKQVSDMGVIH  
PLYKSTVGRRNENLVITGNNQPIVFQGGTTKLSVENNKTSITSDIGMQFFDPRTQNILF  
STDYETHEFHLPVGKSLNVQKASTERITSNATSDLNKVDGRAIVRGNEGVFIMGKTIE  
FHMGMNEMKAENSIILNGSVMVSTTRLPSSSSSGDQLGSGDWVRYKLCMCADGTLFKVQV  
TSQNMGCQISDNPCGNTH

>sp|Q92629|SGCD\_HUMAN Delta-sarcoglycan OS=Homo sapiens GN=SGCD PE=1 SV=2

MPQEQYTHHRSTMPGSGVPQVYKVGVIYGWRKRCLYFFVLLLMILILVNLAMTIWILKVMN  
FTIDGMGNLRITKGLKLEGDEFLQPLYAKEIQSRPGNALYFKSARNVTVNILNDQTKV  
LTQLITGPKAVEAYGKKFEVKTVSGKLLFSADNNEVVGAERLRLVGAEGTVFPKSIETP  
NVRADPFKELRLESPTSLVMEAPKGVINAAGNMEATCRTELRLKESKDGEIKLDAAKI  
RLPRLPHGSYPTGTQKVFECVCANGRLFLSQAGAGSTCQINTSVCL

>sp|Q96LD1|SGCZ\_HUMAN Zeta-sarcoglycan OS=Homo sapiens GN=SGCZ PE=2 SV=1

MTREQYILATQQNNLPRTENAQLYPVGIYGWRKRCLYFFVLLLLVTMIVNLAMTIWILKV  
MNFTVDGMGNLRVTKKIRLEGISEFLPLVYKEIHSRKDSPLVLQSDRNVTVNARNHMG  
QLTGQLTIGADAVEAQCKRFEVRASEDGRVLFSADEDEITIGAELKVTGTGAVFGHSV  
ETPHIRAEPSQDLRLSPTRSLIMEAPRGVQVSAAAGDFKATCRKELHLQSTEGEIFLNA  
ETIKLGNLPTGSFSSSSPSSSSSRQTVYELCVCPNGKLYLSPAGVGSTCQSSSNICLWS

>sp|A6NJ88|SGE2P\_HUMAN Putative SAGE1-like protein OS=Homo sapiens GN=SAGE2P PE=5 SV=4  
MYSQEDHIFQLCSTDLCASEYVPVINQSVLVTHIVNYEDYLQIQASPLQTSQPTPPEELHT  
VGYVFTNDGQQTRSDEVNQVATGHQSKQKRSRESKRHSSSKRRKSMRWLNKQEDAAVTH  
IVCEEKINNDQPAPDNVLSTAPPWLRDMAAAGISSTSTRDLYATVTHNVCDERMENDQLQ  
LNNVLLTFPPERVNMAVADFSAMSPRDLYATINHNVEYVRMENNQPQFNNVLSTVKPGHI  
NMAAAGIPAMSAKDAVVNLNVHGEKINKGQPAPDNFLSSVTPGLINVSGDGATVTHNAYE  
EKMENGQQAADNLSAVPPGLINTSEAGIPAMSTNDLYATITHDVSEKKIKNSQPATDNF  
LCTVTPGLINLAEGILATSTRDLYDTATHNVHEEKMKNKHLITPCQQFHWDLICQELL  
NFFIWIIPDATVIHNIQEEEMENGQMPPDGFLSNSAPLELINMTEDCMPLNALDSFSYDFT  
SLSREELLYKHDSNEFAVGTKNYSVSAGDPPVTAMSSVETPQISPAMAKKINQDIKCQLM  
KEVQRFGQNYKRIFILLEELQGSMMKVQRQFVEFTIREAVRFKKVALIQQLEKVLKEIDSH  
CHLRKVKHMRKKIIVI

>sp|Q96ES7|SGF29\_HUMAN SAGA-associated factor 29 OS=Homo sapiens GN=SGF29 PE=1 SV=1  
MALVSADSRIAELLTELHLIKQTQEERSRSEHNLVNIQKTHERMQ TENKISPYRTKLR  
GLYTTAKADAEACNLRKALDKIAEIKSLLEERRIAAKIAGLYNDEPPRKTMRGVL  
TLLQQSAMTLPLWIGKPGDKPPPLCGAIPASGDYVARPGDKVAARVKAVDGDEQWILAEV  
VSYSHATNKYEVDIDEEGKERHTLSRRRVIPLPQWKANPETDPEALFQKEQLVLALYPQ  
TTCFYRALIHAPPQRPQDDYSVLFEDTSYADGYSPPLNVAQRYVVACKEPKKK

>sp|Q8IWX5|SGPP2\_HUMAN Sphingosine-1-phosphate phosphatase 2 OS=Homo sapiens GN=SGPP2  
PE=2 SV=1  
MAELLRSLQDSQLVARFQRRRCGLFPAPDEGPRENGADPTERAARVPGVEHLPAANGKGGE  
APANGLRRAAAPEAYVQKYVVKNYFYLYLFQFSAALGQEVFYITFLPFTHWNI DPYLSRR  
LIIIWVLVMIYIGQVAKDVLKWRPSSPPVVKLEKRLIAEYGM PSTHAMAATAIAFTLLIS  
TMDRYQYPFVLGLVMAVVFSTLVCLSRLYTGMHTVLDVLGGVLITALLIVLTYPAWTFID  
CLDSASPLFPVCVIVVPFFLCYNYPVSDYSPTRADTTTILAAGAGVTIGFWINHFFQLV  
SKPAESLPVIQNIPLTTYMLVLGLTKFVAVGIVLILLVRQLVQNLSLQVLYSWFKV VTRN  
KEARRRLEIEVPYKFTVYTSVGICATTFVPM LHRFLGLP

>sp|Q9Y2Z0|SGT1\_HUMAN Protein SGT1 homolog OS=Homo sapiens GN=SUGT1 PE=1 SV=3  
MAAAAAGTATSQRFFQSFSDALIDEDPQAAL EELTKALEQKPDDAQYQC RAYCHILLGN  
YCVAVADAKKSLELNPNNSTAMLRKGICEYHEKNYAAALETFT EGQKLDIETGFHRVGQA  
GLQLLTSSDPPALDSQSAGITGADANFSVWIKRCQEAQNGSESEVWTHQSKIKYDWYQTE  
SQVVITLMIKNVQKNDVNVEFSEKELSALVKLPSGEDYNLKELELHP I IPEQSTFKVLST  
KIEIKLKKPEAVRWEKLEGQGDVPTPKQFVADVKNLYPSSSPYTRNWDKLVGEIKEEEKN  
EKLEGDAALNRLFQQIYSDGSDEVKRAMNKSFMESGGTVLSTNWSVGKRKVEINPPDDM  
EWKKY

>sp|O60880|SH21A\_HUMAN SH2 domain-containing protein 1A OS=Homo sapiens GN=SH2D1A PE=1  
SV=1  
MDAVAVYHGKISRETGEKLLLATGLDGSYLLRDSSESVPGVYCLCVLYHGYIYTYRVSQTE  
TGSWSAETAPGVHKRYFRKIKNLISAFQKPDQGIVIP LQYPVEKKSSARSTQGTG IRED  
PDVCLKAP

>sp|Q8N5H7|SH2D3\_HUMAN SH2 domain-containing protein 3C OS=Homo sapiens GN=SH2D3C PE=1  
SV=1  
MTEGTTKTSKKFKFFKFGKFGSLSNLPRSFTLRRSSASISRQSHLEPDTFEATQDDMVT  
PKSPPAYARSSDMYSHMGTM PRPSIKKAQNSQAARQAQEAGPKPNLVPGGVPDPPGLEAA

KEVMVKATGPLEDTPAMEPNPSAVEVDPIRKPEVPTGDVEEERPPRDVHSERAAGEPEAG  
SDYVKFSKEKYILDSSPEKLHKELEEELKLSSTDLRSHAWYHGRIPREVSETLVQRNGDF  
LIRDSLTS LGDYVLT CRWRN QALHF KINKV VVKAGESYTHIQYLFEQESFDHVPALVRYH  
VGSRKAVSEQSGAIIYCPVNRFTPLRYLEASYGLGQGSSKPASPVSPSGPKGSHMKRRSV  
TMTDGLTADKVTRSDGCPTSTSLPRPRDSIRSCALSMDQIPDLHSPMSPISESPSSPAYS  
TVTRVHAAPAAPSATALPASPVARRSSEPQLCPGSAPKTHGESDKGPHTSPSHTLGKASP  
SPSLSSYSDPDSGHYQLQPPVGRSREWAATETSSQQARSYGERLKELSENGAPEGDWGWK  
TFTVPIVEVTSSFNPA TFQSLLIPRDNRPLEVGLLRKV KELLA EVDARTLARHVT KVDCL  
VARILGVTKEMQTLMGVRWGMELLTLPHGRQLRLDLLERFHTMSIMLAVDILGCTGSAEE  
RAALLHKT IQLAELRGTMGNMFSFAAVMGALDMAQISRLEQTWVTLRQRHTEGAILYEK  
KLKPF LKSLNEGKEGPPLSNTTFPHVLPLITLLECD SAPPEGPEPWGSTEHGVEVLAHL  
EAARTVAHHGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLWGSQGASSSQARRYEFK  
DKVLTALSHKLEPAVRSEL

>sp|Q99963|SH3G3\_HUMAN Endophilin-A3 OS=Homo sapiens GN=SH3GL3 PE=1 SV=1

MSVAGLKKQFHKASQLFSEKISGAEGTKLDDEF LDMERKIDVTNKVVAEILSKTTEYLQP  
NPAYRAKL GMLNTVSKIRGQVKTGYPQTEGLLGDCMLKYGKELGEDSTFGNALIEVGES  
MKLMAEVKDSL DINVKQTFIDPLQLLQDKDLKEIGHHLKKLEGRRLDYDYKKKRVGKIPD  
EEVRQAVEKFEEKELAERSMFNFLENDVEQVSQLAVFIEAALDYHRQSTEILQELQSKL  
QMRISAASSVPRREYKPRPVKRSSSELNGVSTTSVVKTG SNIPMDQPCCRGLYDFEPEN  
QGELGFKEGDIITLTNQIDENWYEGMIHGSGFFPINYVEVIVPLPQ

>sp|Q7M4L6|SHF\_HUMAN SH2 domain-containing adapter protein F OS=Homo sapiens GN=SHF PE=1 SV=2

MQQEGGPVRSAPCRTGTLEGSRQSGPGRKRASPKGSLSSAQPHSWMLTPSPLNSHCAHR  
EPISSSPQPVANGPKQKKKSNWRSTTRLRIIRLRDRLEPRPLAILEDYADPFQVQETGEG  
SAGASGAPEKVPENDGYMEPYEAQKMAEIRGSKETATQPLPLYDTPYEPEEDGATAEGE  
GAPWPRESRLPEDDERPPEEYDQPWEWKKERISKAFVDIKVIKDLWP PPPVGQLDSSPS  
LPDGRDISGPASPLPEPSLEDSSAQFEGPEKSCLSPGREEKGRLPPRLSAGNPKSAKPL  
SMEPSSPLGEWTDPALPLENQVYHGAISRDAENLLRLCKEASYLVNRSETSKNDFSLS  
LKSSQGFMHMKLSRTKEHKYVLGQNSPPFSSVPEIVHHYASRKLPKGAEHMSLLYPVAI  
RTL

>sp|Q8N114|SHSA5\_HUMAN Protein shisa-5 OS=Homo sapiens GN=SHISA5 PE=1 SV=1

MTAPVPAPRILLPLLLLLLLTPPPGARGEVCMSRGLSLFPESCDFCCGTCDDQYCCSD  
VLKKFVWSEERCAVPEASVPASVEPVEQLGSALRFRPGYNDPMSGFGATLAVGLTIFVLS  
VVTIIICFTSCCCLYKTCRRPRPVVTTTTSTTVVHAPYPQPPSVPPSYPGPSYQGYHTM  
PPQPGMPAAPYPMPYPPYPAPQPMGPAYHETLAGGAAAPYPASQPPYNPAYMDAPKAAL

>sp|Q9UJ37|SIA7B\_HUMAN Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2  
OS=Homo sapiens GN=ST6GALNAC2 PE=1 SV=1

MGLPRGSFFWLLLLLTAACSGLLFALYFSAVQRYPGAAGARDTTSFEAFFQSKASNSWT  
GKGQACRHLHLAIQRHPHFRGLFNLSIPVLLWGD LFTPALWDRLSQHKAPYGWRGLSHQ  
VIASTLSLLNGSES AKLFAPPRDTPPKCIRCAVVGNNGGILNGSRQGNIDAHDYVFR LNG  
AVIKGFERDVGT KTSFYGFTVNTMKNLSVSYWNLGFTSVPGQDLQYIFIPSDIRDYVML  
RSAILGVPVPEGLDKDRPHAYFGPEASASKFKLLHPDFISYLTERFLKSKLINTHFGDL  
YMPSTGALMLLTALHTCDQVSAYGFTSNYWKFS DHYFERKMKPLIFYANHDL SLEAALW  
RDLHKAGILQLYQR

>sp|Q8IUQ4|SIAH1\_HUMAN E3 ubiquitin-protein ligase SIAH1 OS=Homo sapiens GN=SIAH1 PE=1 SV=2

MSRQTATALPTGTSKCPPSQRPALTGTTASNNDLASLFECPVCFDYVLPPIQQCSGHL  
VCSNCRPKLTCCPTCRGPLGSIRNLAMEKVANSVLPCKYASSGCEITLPHTEKADHEEL  
CEFRPYSCPCPGASCKWQGS�DAVMPHLMHQHSITTLLQGEDIVFLATDINLPGAVDWVM  
MQSCFGFHFMLVLEKQEKYDGHQFFAIVQLIGTRKQAFYRLELNGHRRRLTWEATP  
RSIHGIATAIMNSDCLVFDTSIAQLFAENGLGINVTISM

>sp|Q96LC7|SIG10\_HUMAN Sialic acid-binding Ig-like lectin 10 OS=Homo sapiens GN=SIGLEC10 PE=1 SV=3

MLLPLLLSSLLGGSQAMDGRFWIRVQESVMVPEGLCISVPCSFSYPRQDWTGSTPAYGYW  
FKAVTETTKGAPVATNHQSREVEMSTRGRFQLTGDPAGNCSLVIRDAQMDESQYFFRV  
ERGSYVRYNFMNDGFFLKVTALTQKPDVYIPETLEPGQPVTVICVFNWAFEECPPPSFSW  
TGAALSSQGTKPTTSHFSVLSFTPRPQDHNTDLTCHVDFSRKGVSAQRTVRLRVAYAPRD  
LVISISRDNTPALEPQPQGNVPYLEAQKGQFLRLCAADSQPPATLSWVLQNRVLSSHP  
WGPRPLGLELPGVKAGDSGRYTCRAENRLGSQQRALDLSVQYPENLRVMVSQANRTVLE  
NLNGTSLPVLEGQSLCLVCVTHSSPPARLSWTQRGQVLSPSQPSDPGVLELPRVQVEHE  
GEFTCHARHPLGSQHVSLSLVHYSKLLGPSCSWEAEGHLCSCSSQASPAPSLRWWLGE  
ELLEGNSSQDSFEVTPSSAGPWANSSLSLHGGSSGLRLRCEAWNVAQSGSILQLPDK  
KGLISTAFSNGAFLGIGITALFLCLALIIMKILPKRRTQTETPRPRFSRHSTILDYINV  
VPTAGPLAQKRNQKATPNSPRTPPLPGAPSPESKKNQKKQYQLPSFPEPKSSTQAPESQE  
SQEELHYATLNFPGVRPRPEARMPKGTQADYAEVKFQ

>sp|Q08ET2|SIG14\_HUMAN Sialic acid-binding Ig-like lectin 14 OS=Homo sapiens GN=SIGLEC14 PE=1 SV=1

MLPLLLPLLLWGGSLQEKPVYELQVQKSVTVQEGLCVLVPCSFSYPWRSWYSSPPLYVYW  
FRDGEIPYYAEVATNNPDRRVKQGRFRLLGDVQKKNCSLSIGDARMEDTGSYFFRV  
ERGRDVKYSYQKNLNLVLTALIEKPDHIFLEPLESGRPTRLSCSLPGSCEAGPPLTFSW  
TGNALSPLDPETTRSELTLTPRPEDHGTNLTCQVKRQGAQVTERTVQLNVSYPQNLAI  
SIFFRNGTGALTILSNGMSVPIQEGQSLFLACTVDSNPPASLSWFREGKALNPSQTS  
SGTLELPNIGAREGGEFTCRVQHPLGSQHLSFILSVQRSSSSCICVTEKQQGSWPLVLT  
IRGALMGAGFLTYGLTWIYYTRCGGPQQSRAERPG

>sp|A6NMB1|SIG16\_HUMAN Sialic acid-binding Ig-like lectin 16 OS=Homo sapiens GN=SIGLEC16 PE=2 SV=3

MLLPLLLPVLGAGSLNKDPSYSLQVQRQVPVPEGLCVIVSCNLSYPRDGDWDESTAAYGY  
WFKGRTSPKTGAPVATNNQSREVAMSTRDRFQLTGDPKGSCSLVIRDAQREDAWYFFR  
VERGSRVRHSFLSNAFFLKVTALTQKPDVYIPETLEPGQPVTVICVFNWAFKKCPAPSFS  
WTGAALSPRRTRPSTSHFSVLSFTPSQDHDNTDLTCHVDFSRKGVSAQRTVRLRVASLEL  
QGNVIYLEVQKGQFLRLCAADSQPPATLSWVLQDRVLSSSHWPGRPLGLELPGVKAGD  
SGRYTCRAENRLGSQQRALDLSVQYPENLRVMVSQANRTVLENLRNGTSLRVLEGQSLR  
LVCVTHSSPPARLSWTWGEQTVGPSQPSDPGVQLPRVQMEHEGEFTCHARHPLGSQRVS  
LSFSVHCKSGPMTGVVLVAVGEVAMKILLCLCLILLRVRSCRRKAARAALGMEAADAVT  
D

>sp|Q9H0K1|SIK2\_HUMAN Serine/threonine-protein kinase SIK2 OS=Homo sapiens GN=SIK2 PE=1 SV=1

MVMADGPRHLRQGPVRVGFYDIEGTLGKGNFAVVKLGRHRITKTEVAIKIIDKSQLDVAVN



LEKIYREVQIMKMLDHPHI IKLYQVMETKSMLYLVTEYAKNGEIFDYLANHGRLNESEAR  
RKFWQILSAVDYCHGRKIVHRDLKAENLLLDNNMIKIADFGFGNFFKSGELLATWCGSP  
PYAAPEVFEGQQYEGPQLDIWSMGVVLYVLVCGALPFDGPTLPILRQRVLEGRFRIPYFM  
SEDCEHLIRRLVLDPKRLTIAQIKEHKWMLIEVPVQRPVLYPQEENEPSIGEFNEQV  
LRLMHS LGIDQQKTIESLQNKSYNHFAAIYFLLVERLKSHRSSFPVEQRLDGRQRRPSTI  
AEQTVAKAQTVGLPVTMHSPNMRLRSALLPQASNVEAFSFPASGCQAEAAFMEEECVDT  
PKVNGCLLDPVPPVLRKGCQSLPSNMETS IDEGLETEGEAEEDPAHAFAEFQSTRSGQ  
RRHTLSEVTNQLVMPGAGKIFSMNDSPSLDSVDSEYDMGSVQRDLNFLEDNPSLKDIML  
ANQSPRMTSPFISLRPTNPAMQALSSQKREVNHRSPVSFREGRRASDTSLTQGIVAFRQ  
HLQNLARTKGILELNKVQLLYEQIGPEADPNLAPAAPQLQDLASSCPQEEVSQQQESVST  
LPASVHPQLSPRQSLETQYLQHRLLQKPSLLSKAQNTCQLYCKEPPRSLEQQLQEHRLQKQ  
RLFLQKQSQLQAYFNQMQUIAESSYPQPSQQLPLPRQETPPPSQQAPPFSLTQPLSPVLEP  
SSEMQYSPFLSQYQEMQLQPLPSTSGPRAAPPLPTQLQQQQPPPPPPPPRQGAAPA  
PLQFSYQTCELPASAPADYPTPCQYPVDGAQQSDLTGPD CPRSPGLQEAPSSYDPLAL  
SELPGLFDCEMLDAVDPQHNGYVLVN

>sp|Q9BRV8|SIKE1\_HUMAN Suppressor of IKBKE 1 OS=Homo sapiens GN=SIKE1 PE=1 SV=1

MSCTIEKILTDAKTLLERLREHDAEAESLVDQSAALHRRVAAMREAGTALPDQYQEDASD  
MKDMSKYKPHILLSQENTQIRDLQENRELWISLEEHQDALELIMSKYRKQMLQLMVAKK  
AVDAEPVLKAHQSHSAEIESQIDRICEMGEVMRKAVQVDDQFCKIQEKLAQLELENKEL  
RELLSISSESLQARKENSMDTASQAIK

>sp|Q9H173|SIL1\_HUMAN Nucleotide exchange factor SIL1 OS=Homo sapiens GN=SIL1 PE=1 SV=1

MAPQSLPSSRMAPLGMLLGLLMAACFTFCLSHQNLKEFALTNPEKSSTKETERKETKAAE  
ELDAEVLEV FHPHTHEWQALPGQAVPAGSHVRLNLQTGEREAKLQYEDKFRNNLKGKRLD  
INTNTYTSQDLKSALAKFKEGAEMESSKEDKARQAEVKRLFRPIEELKKDFDELNVVIET  
DMQIMVRLINKFNSSSSSLEEKIAALFDLEYVYHQMDNAQDLLSFGGLQVVINGLNSTEP  
LVKEYAAAFVLGAAFSSNPVKVQVEAIEGGALQKLLVILATEQPLTAKKKVLFALCSLLRHF  
PYAQRQFLKLGGLQVLR TLVQEKGTEVLAVRVVTL LYDLVTEKMFEEEEAELTQEMSPEK  
LQQYRQVHLLPGLWEQGWCEITAHLLALPEHDAREKVLQTLGVLLTTCRDRYRQDPQLGR  
TLASLQAEYQVLASLELQDGEDEGYFQELLGSVNSLLKELR

>sp|PODMW5|SIL2B\_HUMAN Small integral membrane protein 10-like protein 2B OS=Homo sapiens  
GN=SMIM10L2B PE=4 SV=1

MAASAALSAAAAAAALSGLAVRLSRSAARGSYGAFCKGLTRTLLTFFDLAWRLRMNFPY  
FYIVASVMLNVRLQVRIE

>sp|Q13309|SKP2\_HUMAN S-phase kinase-associated protein 2 OS=Homo sapiens GN=SKP2 PE=1  
SV=2

MHRKHLQEIPDLSSNVATSFTWGWSSKTSSELLSGMGVSALEKEEPDSENIPQELLSNLG  
HPESP RKRKLSKSGDKDFVIVRRPKLNRENFPGVSWDSL PDELLLGIFSCLC LPELLKV  
SGVCKRWYRLASDESLWQTLDTLTKNLHPDVTGRLLSQGVIAFRCPRSFMDQPLAEHFSP  
FRVQHMDLSNSVIEVSTLHGILSQCSKLQNLSEGLRLSDPIVNTLAKNSNLVRLNLSGC  
SGFSEFALQTLSSCSRLELNLSWCFDFTEKHVQVAVAHVSETITQLNLSGYRKNLQKS  
DLSTLVRRCPNLVHLDLSDSVMLKND CFQEFFQLNYLQHLSLSRCYDIIPETLLELGEIP  
TLKTLQVFGIVPDGTLQLLKEALPHLQINCSHFTTIARPTIGNKKNQEIWGIKCR LTLQK  
PSCL

>sp|P19634|SL9A1\_HUMAN Sodium/hydrogen exchanger 1 OS=Homo sapiens GN=SLC9A1 PE=1 SV=2

MVLRSGICGLSPHRIFPSLLVVVALVGLLPVLRSHGLQLSPTASTIRSSEPPRERSIGDV  
TTAPPEVTPESRPVNHSVTDHGMKPRKAFVVLGIDYTHVRTPFEISLWILLACLMKIGFH  
VIPTISSIVPESCLLIVVGLLVGGLIKGVGETPPFLQSDVFFLFLPPIILDAGYFLPLR  
QFTENLGTILIFAVVGLTWNAAFLLGGLMYAVCLVGGEQINNIGLLDNLLFGSIIISAVDPV  
AVLAVFEEIHINELLHILVFGESLLNDAVTVVLYHLFEFANYEHVGIVDIFLGFLSFFV  
VALGGVLVGVVYGVIAAFTSRFTSHIRVIEPLFVFLYSYMAYLSAELFHLSGIMALIASG  
VVMRPYVEANISHKSHTTIKYFLKMWSSVSETLIFIFLGVSTVAGSHHWNWTFVISTLLF  
CLIAVLGVLGLTWFINFRIVKLTPKDQFI IAYGGLRGATAFSLGYLLDKKHFPMDLF  
LTAIITVIFFTVFVQGMTIRPLVDLLAVKKKQETKRSINEEIHQTFLDHLTGIEDICGH  
YGHHHWKDKLNRFNKKYVKKCLIAGERSKEPQLIAFYHKMEMKQAIELVESGGMGKIPSA  
VSTVSMQNIHPKSLPSERILPALSKDKEEIRKILRNNLQKTRQRLRSYNRHTLVADPYE  
EAWNQMLLRRQKARLEQKINNYLTVPAHKLDSPTMSRARIGSDPLAYEPKEDLPVITID  
PASPQSPESVDLVNEELKGKVLGLSRDPAKVAEEDEDDGGIMMRKETSSPGTDDVFTP  
APSDSPSSQRIQRCLSDPGPHEPGEPEPFFPKGQ

>sp|Q6AI14|SL9A4\_HUMAN Sodium/hydrogen exchanger 4 OS=Homo sapiens GN=SLC9A4 PE=2 SV=2

MALQMFVTYSPWNCLLLLVALECSEASSDLNESANSTAQYASNAWFAAASSEPEEGISVF  
ELDYDYVQIPYEVTLLWILLASLAKIGFHLYHRLPGLMPESCLLILVGALVGGIIFGTDHK  
SPPVMDSSIIYFLYLLPPIVLEGGYFMPTRPFFENIGSILWWAVLGALINALGIGLSLYLI  
CQVKAFLGDNLLQNLLFGSLISAVDPVAVLAVFEEARVNEQLYMMIFGEALLNDGITV  
VLYNMLIAFTKMHKFEDIETVDILAGCARFIVVGLGGVLFGIVFGFISAFITRFTQNISA  
IEPLIVFMFSYLSYLAETLYLSGILAITACAVTMKKYVEENVSQTSYTTIKYFMKMLSS  
VSETLIFIFMGVSTVGKNHEWNWAFICFTLAFQCIWRAISVFALFYISNQFRTFPFSIKD  
QCIIFYSGVRGAGSFLAFLPLSLFPRKKMFVTATLVVIYFTVFIQGITVGPLVRYLDV  
KKTNKKESINEELHIRLMDHLKAGIEDVCGHWSHYQVRDKFKKFDHRYLRKILIRKNLPK  
SSIVSLYKKLEMKQAIEMVETGILSSTAFSIPHQAQRIQGIKRLSPEDVESIRDILTSNM  
YQVRQRTL SYNKYNLKPQTSEKQAKEILIRRQNTLRESMRKGHSLPWGKPAGTKNIRYLS  
YPYGNPQSAGRDTRAAGFSDDSDPGSPSITFSACSRIGSLKQEAQEIIIPMKSLHRGR  
KAFSFGYQRNTSQEEYLGVRVVALRPKPLFHAVDEEGESGGESEKASLVEVRSRWTD  
HGHGRDHHRSHSPLLQKK

>sp|075094|SLIT3\_HUMAN Slit homolog 3 protein OS=Homo sapiens GN=SLIT3 PE=2 SV=3

MAPGWAGVGA AVRARLALALASVLSGPPAVACPTKCTCSAASVDCHGLGLRAVPRGIP  
RNAERLDLDRNNITRITKMDFAGLKNLRLVHLEDNQVSVIERGAFQDLKQLERLRNLKNK  
LQVLPPELLFQSTPKLTRLDLSENQIQGIPRKAFRGITDVKNLQLDNNHISCIEDGAFRAL  
RDLEILTLNNNNISRI LVTFSFNHMPKIRTLRLHSNHLCDCHLAWLSDWLRQRRTVGQFT  
LCMAPVHLRGFNVADVQKKEYVCPAPHSEPPSCNANSISCPSPCTCSNNIVDCRGKGLME  
IPANLPEGIVEIRLEQNSIKAIPAGAFTQYKKLKRIDISKNIQSDIAPDAFQGLKSLTSL  
VLYGNKITEIVKGLFDGLVSLQLLLLNANKINCLRVNTFQDLQNLNLLSLYDNKLQTISK  
GLFAPLQSIQTLHLAQNPVFCDCHLKWLADYLQDNPIETSGARCSSPRRLANKRISQIKS  
KKFRCSGSEDYRSRFSSECFMDLVCPEKCRCEGTIVDCSNQKLVRIPSHLPEYVTDLRLN  
DNEVSVLEATGIFKKLPNLRKINLSNNKIKEVREGAFDGAASVQELMLTGNQLETVHGRV  
FRGLSGLKTLMLRSNLIGCVSNDTFAGLSSVRLLSLYDNRIITTITPGAFTTLVSLSTINL  
LSNPFNCNCHLAWLGKWLRRRIVSGNPRCQKPFFLKEIPIQDVAIQDFTCDGNEESSCQ  
LSPRCPEQCTCMETVVRCSNKGRLALPRGMPKDVTELYEGNHLTAVPRELSALRHLTLI  
DLSNNSISMLTNYTFSNMSHLSTLILSYNRLRCIPVHAFNGLRSLRVLT LHGNDISSVPE

GSFNDLTSLSHLALGTNPLHCDCLRWLSEWVKAGYKEPGIARCSSPEPMADRLLLTPT  
HRFQCKGPDINIVAKCNACLSSPCKNNGTCTQDPVELYRCACPYSYKGKDVPTINTCI  
QNPCQHGGTCHLSDSHKDGFSCSPLGFEGQRCEINPDDCEDNDCENNATCVDGINNYVC  
ICPPNYTGELCDEVIDHCVPENLQCHEAKCIPLDKGFSCECVPGYSGKLCETDNDDCVA  
HKCRHGAQCVDTINGYTCTCPQGFSGPFCEHPPMVLLQTSPCDQYECQNGAQCIVVQQE  
PTCRCPPGFAGPRCEKLITVNFVGKDSYVELASAKVRPQANISLQVATDKDNGILLYKGD  
NDPLALELYQGHVRLVYDSLSSPPTTVYSVETVNDGQFHSVELVTNLNLTNLVVDKGT  
SLGKLQKQPAVGINSPLYLGGIPTSTGLSALRQGTDRPLGGFHGCIHEVRINNELQDFKA  
LPPQSLGVSPGCKSCTVCKHGLCRSVEKDSVVCECRPGWTGPLCDQEARDPCLGHRCHHG  
KCVATGTSYMCKCAEGYGGDLCDNKNSANACSAFKCHHGQCHISDQGEPLYCLCPGFSG  
EHCQQENPCLGQVVREVIIRQKGYASCATASKVPIMECRGGCGPQCCQPTRSKRRKYVFQ  
CTDGSSFVEEVERHLECGCLACS

>sp|Q9BQ83|SLX1\_HUMAN Structure-specific endonuclease subunit SLX1 OS=Homo sapiens  
GN=SLX1A PE=1 SV=1

MGPAGVAARPGRFFGVYLLYCLNPRYGRVYVGFTVNTARRVQQHNGGRKKGGAWRTSGR  
GPWEMVLVVHGFSSVAALRFEWAQHPHASRRLAHVGPRLRGETAFAFHLRVLAHMLRA  
PPWARLPLTLRWVRPDLRQDLCLPPPHVPLAFGPPPPQAPAPRRRAGPFDDAEPEPDQG  
DPGACCSLCAQTIQDEEGLCCPHPGCLLRAHVICLAEFLQEPEGQLPLEGQCPCCEK  
SLLWGDLIWLCQMDTEKEVEDSELEEAWTDLLET

>sp|Q96SB8|SMC6\_HUMAN Structural maintenance of chromosomes protein 6 OS=Homo sapiens  
GN=SMC6 PE=1 SV=2

MAKRKEENFSSPKNAKRPRQEELEDFDKDGEDECKGTTLTAAEVGIIESIHLKNFMCHS  
MLGPFKFGSNVNFVVGNGSGKSAVLTALIVGLGGRVATNRGSSLKGFVKDQNSADIS  
ITLNRGDDAFKASVYGNSILIQHISIDGSRSYKLKSATGSVVSTRKEELIAILDHFNI  
QVDNPVSVLTQEMSKQFLQSKNEGDKYKFFMKATQLEQMKEDYSYIMETKERTKEQIHQG  
EERLTCLKRQVEKEERFQSIAGLSTMTNLESLKHEMAWAVVNEIEKQLNAIRDNIKIG  
EDRAARLDRKMEEQQVRLNEAEQKYKDIQDKLEKISEETNARAPECMALKADVAKKRAY  
NEAEVLYNRSLNEYKALKKDDEQLCKRIEELKKSTDQSLEPERLERQKKISWLKERVKAF  
QNNQSVNQEIIEQFQAIEKDKKEHGKIKREELDVKHALSYNQRQLKELKDSKTDRLKRF  
GPNVPALLEAIDDAYRQGHFTYKPVGPLGACIHLRDPALALAIESCLKGLLQAYCCHNHA  
DERVLQALMKRFYLPGTSRPPIIVSEFRNEIYDVRHRAAYHPDFPTVLTALIDNAVAN  
SLIDMRGIETVLLIKNNSVARAVMQSQKPPKNCREAFTADGDQVFAGRYSSENTRPKFL  
SRDVDSEISDLENEVENKTAQILNLQQHLSALEKDIKHNEELLKRCQLHYKELKMKIRKN  
ISEIRELENIEEHQSVDIATLEDEAQENKSKMKMVEEHMEQQKENMEHLKSLKIEAENKY  
DAIKFKINQLSELADPLKDELNLADSEVDNQKRGKRHYEEKQKEHLDTLNKKKRELDMKE  
KELEEKMSQARQICPERIEVEKSASILDKEINRLRQKIQAEHASHGDREEIMRQYQEA  
TYLDLDSKVRTLKKFIKLLGEIMEHRFKTYQQFRRCLTLRCKLYFDNLLSQRAYCGKMN  
DHKNETLSISVQPGEGNKAADFNDMRALSGGERSFSTVCFILSLWSIAESPFRCLDEFD  
VYMDMVNRRIAMDLILKMADSQRFRQFILLTPQSMSSLPSSKLIRILRMSDPERGQTTLPFR  
PVTQEEDDDQR

>sp|P62316|SMD2\_HUMAN Small nuclear ribonucleoprotein Sm D2 OS=Homo sapiens  
GN=SNRPD2 PE=1 SV=1

MSLLNPKPKSEMTPEELQKREEEFNTPGLSVLTQSVKNNTQVLINCRNNKKLLGRVKAFD  
RHCNMVLENVKEMWTEVPKSGKGKKKSKPVNKDRYISKMFLRGDSVIVVLRNPLIAGK

>sp|Q6ZMV5|SMEK3\_HUMAN Putative SMEK homolog 3 OS=Homo sapiens GN=PPP4R3CP PE=5 SV=2

MAGLRYSVKVYVLNEDEEWNNGTGQVSSTYDEQFQGMSELLVRSDSDGSVILRSQIPPDR  
PYGKYQETLIVWYEAENQGLVLKFQDPAGCQDIWKEICQAQKDPISQITTVNISDEPEED  
FNEMSVISNMVLPDCELNTLDQIADIVTSVFSSPVTDRERLAEILKNEAYIPKLLQLFH  
TCENLENTEGLHHLYEIIKGILFLNEACLFEMFSDECIMDVVGCLEYDPALDQPKRHRD  
FLTNDAKFKEVIPITNSELRQKIHQTYRLQYIYDILLPVPSIFEDNFLSTLTTFFIFSNA  
EIVSMLQKDHKFLYEVFAQLKDETHDDRCELLFFFKELCSFSQALQPQSKDALFETLI  
QLGVLPAKIVMIRDDLQVRSAAAVICAYLVEYSPSRIREFIISEAHVCKDSDLFINVII  
KQMICDTPDELGGAVHLMVVLHTLLDPRNMLTPEKSERSEFLHFFYKHCMMHKFTAPLLA  
ATSEHNCEEDDIAGYDKSKNCPNDNQTALLALILELLTFCIQHHTFYIRSYILNKDLLR  
KALILMNSKHTHLILCVLRFMRMILCLNDEAYNNYIIKGNLFEPVVALLDNGTRYNMLN  
SAILELFEYIRVENIKPLVSHIVEKFYNTLESIEYVQTFKGLKIKYEKERDRQSQIQKNL  
HSVLQNIVVFRGTIEEIGLEEEICFMEDAGEAVMPPLEDDDEFMETKRTQEGEAVMPPLE  
DDDKFTETKTRTHQEGEAVMPPLEDDDEFMETKRNQEHEGKVDSPKRTSSGDFKSSSYSA  
CAAIGTGSPSGSSVRLVDHPDDEEKEEEDKEEDKEDTSPKKKPHLSS

>sp|Q8ND04|SMG8\_HUMAN Protein SMG8 OS=Homo sapiens GN=SMG8 PE=1 SV=1

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NSEKFSLVNTVCDRQVFPLFRHQDPGDPGPGIRTEAGAVGEAGGAEDPGAAAGGSVRGSG  
AVAEGNRTEAGSQDYSLLQAYYSQESKVLVLLTSICDNSQLLRACRALQSGEAGGGLSL  
PHAEAHEFWKHQEKQLCLSLLYLSVCHILLVHPTCSFDITYDRVFRALDGLRQKVLPL  
LKTAIKDCPVGDKWLNCRPCPPRLFLFQLNGALKVEPPRNQDPAHPDKPKHSPKRRL  
QHALEDQIYRIFRKSRLVTNQSINCLFTVPANQAFVYIVPGSQEEDPVGMLLDQLRSHCT  
VKDPESLLVPAPLSGPRRYQVMRQHSRQQLSFHIDSSSSSSSSQLVDFTLREFLWQHVEL  
VLSKKGFDDSVGRNPQPSHFELPTYQKWISAASKLYEVAIDGKEEDLGSPTGELTSKILS  
SIKVLEGLDIDTKFSENRCQKALPMASAYQSNLPHNYTMTVHKNQLAALRVYSQHAR  
GPAFHKYAMQLHEDCYKFWSNHQLCEERSLTDQHCVHKFHSLPKSGEKPEADRNPVLY  
HNSRARSTGACNCGRKQAPRDDPFDIKAANYDFYQLLEEKCCGKLDHINFPVFEPSTPDP  
APAKNESSAPPDSDADKLKEKEPQTQGESTSLSLALSLGQSTDLSLGTYPADPQAGGDNP  
EVHGQVEVKTEKRPNFVDRQASTVEYLPGLHSNCPKGLLPKFSSWSLVKLGPAKSYNFH  
TGLDQQGFIPGTNYLMPWDIVIRTRADEGLDNTNSWPAPNKAIPGKRSAVVMGRGRRRD  
DIARAFVGFYEDSRGRRFMCSPDKVMKVMGSGPKESALKALNSDMPYILSSSQGRGL  
KPHYAQLMRLFVVVPDAPLQIILMPQVQPGPPPCPVFYPEKQEITLPPDGLWVLRFPYAY  
VTERGPCFPKENVQLMSYKVLRGVLKAVTQ

>sp|H3BR10|SMLR1\_HUMAN Small leucine-rich protein 1 OS=Homo sapiens GN=SMLR1 PE=1 SV=1

MLSKGRSPRRKQVQTRKAALVSVTPMVPVGSVWLMSSVLSAFMRELPGWFLFFGVFL  
PVTLLLLLLIAYFRIKLIIEVNEELSQCNDRQHNPDKGSSLYQRMKWT

>sp|Q6GMV2|SMYD5\_HUMAN SET and MYND domain-containing protein 5 OS=Homo sapiens GN=SMYD5  
PE=1 SV=2

MAASMCDFVSFCVGVAGRARVSVEVRFVSSAKGKGLFATQLIRKGETIFVERPLVAAQFL  
WNALYRYRACDHCLRALEKAENNAQRLTGKPGQVLPHELCTVRKDLHQNCPHCQVMYCS  
AECRLAATEQYHQVLCPGPSQDDPLHPLNKLQEAWSIHYPPEASIMLMARMVATVKQA  
KDKDRWIRLFSQFCNKTANEEEEIVHKLLGDKFKGLELLRRLFTEALYEEAVSQWFTPD  
GFRSLFALVGTNGQIGTSSLSQVWHACDTLELKPQDREQLDAFIDQLYKDIEAATGEFL  
NCEGSGLFVLQSCCNHSCVPNAETSFPENNFLHVTALIEDIKPGEEICISYLDCCQRERS

RHSRHKILRENYLFVCSPKCLAEADPNVTSEEEEEEEEEEGEPEDAELGDEMTDV

>sp|Q99747|SNAG\_HUMAN Gamma-soluble NSF attachment protein OS=Homo sapiens GN=NAPG PE=1 SV=1

MAAQKINEGLEHLAKAEKYLKTGFLKWKPDYDSAASEYGKAAVAFKNAKQFEQAKDACLR  
EAVAHENNRALFHAAKAYEQAGMMLKEMQKLPEAVQLIEKASMMYLENGTPDTAAMALER  
AGKLIENVDPKAVQLYQQTANVFENEERLRQAVELLGKASRLLRGRRFDEAALSIQKE  
KNIYKEIENYPTCYKKTIAQVLVHLHRNDYVAAERCVRESYSIPGFNGSEDCAALEQLLE  
GYDQQDQDQVSDVCNSPLFKYMDNDYAKLGLSLVVPGGGIKKKSPATPQAKPDGVTATAA  
DEEDEYSGGLC

>sp|O95295|SNAPN\_HUMAN SNARE-associated protein Snapin OS=Homo sapiens GN=SNAPIN PE=1 SV=1

MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLDShvHAVRESQVELREQIDN  
LATELCRINEDQKVALDLDPYVKLLNARRRVVLVNNILQNAQERLRLNHSVAKETARR  
RAMLDSGIYPPGSPGK

>sp|Q12824|SNF5\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1 OS=Homo sapiens GN=SMARCB1 PE=1 SV=2

MMMALSKTFGQKPVKFQLEDDGEFYMIGSEVGNYLRMFRGSLYKRYPSLWRRLATVEER  
KKIVASSHGKKTTPNTKDHGYTTLATSVTLTKASEVEEILDGNDKYEKAVSISTEPPTYL  
REQKAKRNSQWVPTLPNSSHHLDAVPCSTTINRNMGRDKKRTFPLCFDDHDAV IHENA  
SQPEVLVPIRLDMEIDGQKLRAFTWNMNEKLMTPMFSEILCDDLNLPLTFVPAIASA  
IRQQIESYPTDSILEDQSDQRV I IKLNIHVGNISLVDQFEWDMSEKENSPEKFALKLCSE  
LGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAE  
MEKKIRDQDRNTRMRRLANTAPAW

>sp|Q9BXW3|SNH12\_HUMAN Putative uncharacterized protein SNHG12 OS=Homo sapiens GN=SNHG12 PE=5 SV=1

MQGTWLPPSFLAVCDTEEVSLFLELCFKIHVTCKAVLICDYGPMELGQSLWEAEGKDPGH  
FR

>sp|Q8TAD8|SNIP1\_HUMAN Smad nuclear-interacting protein 1 OS=Homo sapiens GN=SNIP1 PE=1 SV=1

MKAVKSERERGSRRRHRDGDVVLPAGVVVKQERLSPEVAPPAHRRPDHSGGSPSPPTSEP  
ARSGHRGNRARGVSRSPPKKKNKASGRRSKSPRSKRNRSPHHSTVKVKQEREDHPRRGRE  
DRQHREPSEQEHRRAARNSDRDRHRGSHQRRTSNERPGSGGQGRDRDTQNLQAQEEERE  
FYNARRREHRQRNDVGGGSESQELVPRPGGNNKEKEVPAKEKPSFELSGALLEDNTNFR  
GVVIKYSEPPEARIPKKRWLYPFKNDEVLPVMIHRQSAYLLGRHRRRIADIPIDHPSCS  
KQHAFVQYRLVEYTRADGTVGRRVKPYIIDLGSGNGTFLNNKRIEPQRYVELKEKDVLKF  
GFSSREYVLLHESDTSIDRKDEDEEEEEVSDS

>sp|Q53H47|SETMR\_HUMAN Histone-lysine N-methyltransferase SETMAR OS=Homo sapiens GN=SETMAR PE=1 SV=2

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PGADIDPTQITFGPICVKTCLPGTCSCLRHHGENYDDNSCLRDIGSGGKYAEPVFECNV  
LCRCSDHCRNRVVQKGLQHFHFVKTHKKGWGLRTLEFIPKGRFVCEYAGEVLGFSEVQR  
RIHLQTKSDSNYIIAIREHVYNGQVMETFDPTYIGNIGRFLNHSCEPNLLMIPVRIDSM  
VPKLALFAAKDIVPEEELS YDYSGRYLNLT VSEDKERLDHGKLRKPCYCAKSCTAFLPF  
DSSLYCPVEKSNISCGNEKEPSMCGSAPSVFPSCKRLTLETMKMMLDKKQIRAIFLFEFK

MGRKAAETTRNINNAFGPGTANERTVQWWFKKFKGDESLEDEERSGRPSEVDNDQLRAI  
IEADPLTTTREVAAEELNVNHSTVVRHLKQIGKVKKLDKWVPHEL TENQKNRRFEVSSSLI  
LRNHNEPFLDRIVTCDEKWILYDNRRRSAQWLDQEEAPKHFPKPI LHPKKVMVTI WWSAA  
GLIHYSFLNPGETITSEKYAQEIDEMNQKLQRLQLALVNRKGPILLHDNARPHVAQPTLQ  
KLNELGYEVLPHPPYSPDLLPTNYHVFKHLN NFLQGKR FHNQQDAENAFQEFVESQSTDF  
YATGINQLISRWQKCVDCNGSYFD

>sp|Q7Z333|SETX\_HUMAN Probable helicase senataxin OS=Homo sapiens GN=SETX PE=1 SV=4

MSTCCWCTPGGASTIDFLKRYASNTPSGEFQTADEDLCYCLECVAEYHKARDEL PFLHEV  
LWELETRLRLINHFEKSMKAEIGDDDELYIVDNNGEMPLFDITGQDFENKLRVPLEILKY  
PYLLLHERVNELCVEALCRMEQANCSFQVFDKHPGIYFLVHPNEMVRRWAILTARNLGK  
VDRDDYYDLQEVLLCLFKVIELGLLESPDIYTSSVLEK GK LILLPSHMYDTTNYKSYWLG  
ICMLLTILEEQAMDSLLGSDKQNDFMQSILHTMEREADDDSVDPFPALHCFMVILDRL  
GSKVWGQLMDPIVAFQTIINN ASYNREIRHIRNSSVRTKLEPESYLDDMVTCSQIVYNYN  
PEKTKKDSGWRTAICPDYCPNMYEEMETLASVLQSDIGQDMRVHNSTFLWFIPFVQSLMD  
LKDLGVAYIAQVNVNHL YSEVKEVLNQTD AVCDKVTEFFLLILVSVIELHRNKKCLHLLWV  
SSQQWVEAVVKAKLPPTAFTRSSEKSSGNC SKGTAMISSLSLHSMPSNSVQLAYVQLIR  
SLLKEGYQLGQQLCKRFWDKLNFLRGNLSLGWQLTSQETHELQSCLKQIIRNIKFKAP  
PCNTFVDLTSACKISPASYNKEESEQMGKTSRKDMHCLEASSPTFSKEPMKVQDSVLIKA  
DNTIEGDNNEQNYIKDVKLEDHLLAGSCLKQSSKNIFTERAEDQIKISTRKQKSVEISS  
YTPKDC TSRNGPERGCDRGIIVSTRLLTDSSTDALEKVSTSNEDFSLKDDALAKTSKRKT  
KVQKDEICAKLSHVIKKQHRKSTLVDNTINLDENLTVSNIESFYSRKDTGVQKGDGFIHN  
LSLDPSGVLDDKNGEQKSQNNVLPKEKQLKNEELVIFSFHENNCKIQEFHVDGKELIPFT  
EMTNASEKKSSPFKDLMTVPESRDEEMSNTSVIYSNLTREQAPDISPKSDTLTDSQIDR  
DLHKL SLLAQASVITFPSDSPQNSSQLQRKV KEDKRCFTANQNNVGDTSRGQVIIISDSD  
DDDDERILSLEKLTKQDKICLEREHPQHVSTVNSKEEKNPVKEKTETL FQFEESDSQC  
FEFESSSEVFSVWQDHPDDNNSVQDGEKKCLAPIANTTNGGCTDYVSEVVKGAEGIEE  
HTRPRSISVEEFCEIEVKKPKRRKRSEKPM AEDPVRPSSSVRNEGQSDTNKRDLVGNDFKS  
IDRRSTSPNSRIQRATTVSQKKS SKLCTCTEPIRKVPVSKTPKKT HSDAKKGQNRSSNYL  
SCRTTPAIVPPKKFRQCPEPTSTA EKLGLKKGPRKAYELSQRSLDYVAQLRDHGKT VGVV  
DTRKKTKLISPQNLSVRNNKLLTSQELQMQRQIRPKSQKNRRRLSDCESTDV KRAGSHT  
AQNSDIFVPESDRSDYNCTGGTEVLANSNRKQLIKCMPSEPETIKAKHGSPATDDACPLN  
QCDSVVLNGTVPTNEVIVSTSEDPLGGDPTARHIEMAALKEGEPDSSSDAEEDNLFLTQ  
NDPEDMDLCSQMENDNYK LIELIHGKDTVEVEEDSVSRPQLESLSGTKCKYKDCLETTKN  
QGEYCPKHSEVKA ADEDVFRKGPLPPASKPLRP TTKIFSSKSTSRIAGLSKSLETSSAL  
SPSLKNKSKGIQSILKVPQPVPLIAQKPVGEMKNSCNVLHPQSPNNSNRQGCKVPFGE SK  
YFPSSSPVNILLSSQSVSDTFVKEVLKWKYEMFLNFGQCGPPASLCQSISRVPVPRFHNY  
GDYFNVFFPLMVLNTFETVAQEWLNSPNRENFYQLQVRKFPADYIKYWEFAVYLEEC ELA  
KQLYPKENDLVFLAPERINEEKKDTERNDIQDLHEYHSGYVHKFRRTSVMRNGKTECYLS  
IQTQENFPANLNELVNCIVISSLVTTQRKLKAMSLGSRNQLARAVLNPNPMDFCTKDLL  
TTT SERIIAYLRDFNEDQKKA IETAYAMVKHSPSVAKICLIHGPPGTGKSKTIVGLLYRL  
LTENQRKGHSDENSNAKIKQNRVLCAPSNA AVDELMKKIILEFKEKCKDKKNPLGNCGD  
INLVRLGPEKSINSEVLKFSLDSQVNH RMKKELPSHVQAMHKRKEFLDYQLDELSRQRAL  
CRGGREIQRQELDENISKVSKERQELASKIKEVQGRPQKTQSII ILESHIICCTLSTSGG  
LLES AFRGQGGVPFSCVIVDEAGQSCEIETLTPLIHR CNKLILVGDPKQLPPTVISMKA

QEYGYDQSMMARFCRLLEENVEHNMISRLPILQLTVQYRMHPDICLFPSNYVYNRLKTN  
RQTEAIRCSSDWPFQPYLVFDVGDGSERRDNDSDYINVQEIKLVMEIIKLIKDKRKDVSR  
NIGIIITHYKAQKTMIQKDLKEFDRKGPAEVDTVDAFQGRQKDCVIVTCVRANSIQGSIG  
FLASLQRLNVTITRAKYSLFILGHLRTLMEHQHWNQLIQDAQKGAIKTCDKNYRHDAV  
KILKLKPVLRSLTHPPTIAPEGSRPQGGLPSSKLDSGFAKTSVAASLYHTPSDSKEITL  
TVTSKDPERPPVHDQLQDPRLLRKMGIEVKGGLFLWDPQPSSPQHPGATPPTGEPGFPVV  
HQDLSHIQQAAPVAALSSHKPPVRGEPPAASPEASTCQSKCDDPEEELCHRREARAFSE  
GEQEKCGSETHHTRNSRWDRKRTLEQEDSSSKKRKLL

>sp|Q15637|SF01\_HUMAN Splicing factor 1 OS=Homo sapiens GN=SF1 PE=1 SV=4

MATGANATPLDFPSKKRKRSRWNQDTMEQKTVIPGMPTVIPPGLTREQERAYIVQLQIED  
LTRKLRTGDLGIPNPEDRSPSEPIYNSEGKRLNTRFRTKKLEEEERHNLITEMVALN  
PDFKPPADYKPPATRVSDKVMIPQDEYPEINFVGLLIGPRGNTLKNIEKECNAKIMIRGK  
GSVKEGKVGRKDGQMLPGEDEPLHALVTANTMENVKKAQEIRNILKQGIETPEDQNDLR  
KMQLRELARLNGTLREDDNRILRPWQSSETRSTNTTVCTKCGGAGHIASDCKFQRPQDP  
QSAQDKARMDKEYLSLMAELGEAPVPASVGSTSGPATTPLASAPRPAAPANNPPPPSLMS  
TTQSRPPWMNSGPSESRPYHGMHGGGPGGGPHSFPHPLPSLTGGHGGHPMQHNPNGP  
PPPPWQPPPPPMNQPHPPGHGPPPMQDYLGSTPVGSGVYRLHQGKGMPPPPMGMMP  
PPPPPSGPPPPSGPLPPWQQQQQQPPPPPPSSSMASSTPLWQQNTTTTTTSAGTGS  
IPPWQQQAAAAASPQAPQMGNPTMVPLPPGVQPPLPPGAPPPPPPPPGSAGMMYAPP  
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>sp|Q15459|SF3A1\_HUMAN Splicing factor 3A subunit 1 OS=Homo sapiens GN=SF3A1 PE=1 SV=1

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ARNGPEFEARIRQNEINNPKFNFLNPNDPYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQ  
QQTTQQQLPQKVQAQVIQETIVPKEPPPEFEFIADPPSISAFDLDVVKLTAQFVARNGRQ  
FLTQLMQKEQRNYQDFLRPQHSLFNFTKLVEQYTKILIPPKGLFSKLKKEAENPREVL  
DQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQPNQGNFPPTT  
PEELGARILIQERYEKFGESEEVEMEVESEDEDDKQEKAEPPSQLDQDTQVQDMDEGSD  
DEEGQKVPPPETPMPPLPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKI  
PASKMQEHMRIGLLDPRWLEQRDRSIREKQSDDEVYAPGLDIESSLKQLAERRTDIFGVE  
ETAIGKKIGEEEIQKPEEKVTWDGHSGSMARTQQAQANITLQEQIEAIIHKAKGLVPEDD  
TKEKIGPSKPNEIPQPPPPSSATNIPSSAPPITSVPRPPTMPPVVRTTVVSAVPVMPRP  
PMASVVRLLPPGSVIAMPPIIHAPRINVPMPPSAPPIMAPRPPMIVPTAFVPAPPVAP  
VPAPAPMPVHPPPPMEDEPTSKKLKTEDSLMPEEEFLRRNKGVPVSIKVQVPMQDKTEW  
KLNGQVLVFTLPLTDQVSVIKVKEATGMPAGKQKLQYEGIFIKDSNSLAYNMANGAV  
IHLALKERGGRKK

>sp|Q12874|SF3A3\_HUMAN Splicing factor 3A subunit 3 OS=Homo sapiens GN=SF3A3 PE=1 SV=1

METILEQRRRYHEEKERLMDVMAKEMLTKKSTLRDQINSDHRTRAMQDRYMEVSGNLRDL  
YDDKDGLRKEELNAISGPNEFAEFYNRLKQIKEFHRKHPNEICVPMSVEFEELLKAREN  
SEEAQNLVEFTDEEGYGRYLDLHDCYLKYINLKASEKLDYITYLSIFDQLFDIPKERKNA  
EYKRYLEMLLEYLQDYTDVRVKPLQDQNELFGKIQAEFEKKWENGTFPGWPKETSSALTA  
GAHLDSLAFSSWEELASGLDRLKSALLALGLKCGGTLEERAQRLFSTKGKSLES�DTSL  
FAKNPKSKGTRDTERNKDIAFLEAQIYEYVEILGEQRHLTHENVQRKQARTGEEREEEE  
EEQISESESEDEENEIYNPNLPLGWDGKPIPYWLYKLHGLNINYNCEICGNITYRGPK  
AFQRHFAEWRHAHGMRLCLIPNTAHFANVTQIEDAVSLWAKLKLQKASERWQPDTEEEYE

DSSGNVVNKKTYEDLKRQGLL

>sp|Q9BWJ5|SF3B5\_HUMAN Splicing factor 3B subunit 5 OS=Homo sapiens GN=SF3B5 PE=1 SV=1  
MTDRYTIHSQLEHLQSKYIGTGHADTTKWEVLVNHQHRDSYCSYMGHFDLLNYFAIAENES  
KARVRFNLMEKMLQPCGPPADKPEEN

>sp|Q96HF1|SFRP2\_HUMAN Secreted frizzled-related protein 2 OS=Homo sapiens GN=SFRP2 PE=1  
SV=2

MLQGPGSLLLLFLASHCCLGSARGLFLFGQPDFSYKRSNCKPIPANLQLCHGIEYQNMRL  
PNLLGHETMKEVLEQAGAWIPLVMKQCHPDTKKFLCSLFAPVCLDDLDETIQPCHSLCVQ  
VKDRCAPVMSAFGFPWPDMLECDRFPQDNDLCIPLASSDHLLPATEEAPKVCEACKNKND  
DDNDIMETLCKNDFALKIKVKEITYINRDTKIILETKSKTIYKLVGVSERDLKKSVLWLK  
DSLQCTCEEMNDINAPYLVMGQKQGGELVITSVKRWQKGQREFKRISRSIRKLQC

>sp|O43556|SGCE\_HUMAN Epsilon-sarcoglycan OS=Homo sapiens GN=SGCE PE=1 SV=6

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VLEREYFKGEFPYPKPGEISNDPITFNTNLMGYPDPRGWLRYIQRTPYSDGVLYGSPTA  
ENVGKPTIIETAYNRRTFETARHNLIIINMSAEDFPLPYQAEFFIKNMNVEEMLASEVL  
GDFLGAVKNVWQPERLNAINITSALDRGGRVPLPINDLKEGVYVMVGADVFPSSCLREVE  
NPQNQLRCSQEMEPVITCDKKFRTQFYIDWCKISLVDKTKQVSTYQEVIRGEGILPDGGE  
YKPPSDSLKSRDYYTDFLITLAVPSAVALVFLILAYIMCCRREGVEKRNMQTPDIQLVH  
HSAIQKSTKELRDMSKNREIAWPLSTLPVFHPVTGEIIPPLHTDNYDSTNMPLMQTQQNL  
PHQTQIPQQQTGKWP

>sp|Q96BR1|SGK3\_HUMAN Serine/threonine-protein kinase Sgk3 OS=Homo sapiens GN=SGK3 PE=1  
SV=1

MQRDHTMDYKESCPVSIPSSDEHREKKKRFTVYKVLVSVGRSEWFVFRRYAEFDKLYNT  
LKKQFPAMALKIPAKRIFGDNFDPDFIKRRAGLNEFIQNLVRYPELYNHPDVRAFLQMD  
SPKHQSDPSEDEDERSSQKLHSTSQNINLGPSGNPHAKPTDFDFLKVIGKGSFGKVLLAK  
RKLDGKFYAVKVLQKKIVLNRKEQKHIMAERNVLLKNVKHPFLVGLHYSFQTTEKLYFVL  
DFVNGGELFFHLQRETSFPEHRARFYAAEIASALGYLHSIKIVYRDLKPENILLDSVGHV  
VLTDGFLCKEGIAISDTTTFCTGPEYLAPEVIRKQPYDNTVDWWCLGAVLYEMLYGLPP  
FYCRDVAEMYDNILHKPLSLRPGVSLTAWSELEELLEKDRQNRLGAKEDFLEIQNHPPFE  
SLSWADLVQKKIPPPFNPVAGPDDIRNFDATAETEETVPYSVCVSSDYSIVNASVLEADD  
AFVGFSYAPPSDDLFL

>sp|Q99720|SGMR1\_HUMAN Sigma non-opioid intracellular receptor 1 OS=Homo sapiens  
GN=SIGMAR1 PE=1 SV=1

MQWAVGRRWAWAALLLAVAVALTQVWVLWLGTQSFVFQREEIAQLARQYAGLDHELAFSR  
LIVELRRLHPGHVLPDEELQWVFVNAGGWMGAMCLLHASLSEYVLLFGTALGSRGHSGRY  
WAEISDTIISGTFHQWREGTTKSEVFYPGETVVHGPGEATAVEWGPNTWMVEYGRGVIPS  
TLAFALADTVFSTQDFLTLFYTLRSYARGRLRLTLTYLFGQDP

>sp|O95470|SGPL1\_HUMAN Sphingosine-1-phosphate lyase 1 OS=Homo sapiens GN=SGPL1 PE=1 SV=3

MPSTDLLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPWQLIAWSVVWTLIVWGYEFV  
FQPESLWSRFFKKCKFLTRKMPIIGRKIQDKLNKTKDDISKNMSFLKVDKEYVKALPSQG  
LSSSAVLEKLKEYSSMDAFWQEGRASGTVYSGEEKLTELIVKAYGDFAWSNPLHPDIFPG  
LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACKAYRDLAFEKGIKTPEIVAPQS  
AHAFAFNKAASYFGMKIVRVPLTKMMEVDVRAMRRAISRNTAMLCSTPQFPHGVDPVPE  
VAKLAVKYKIPLHVDAACLGGLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG



SSLVLYSDDKKYRNYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGYVEAT  
KQIIKTARFLKSELENIKGI FVFGNPQLSVIALGSRDFDIYRLSNLMTAKGWNLNQLQFP  
PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYGMAQTTVDRNMVAE  
LSSVFLDSLSTDTVTQGSQMNGSPKPH

>sp|043147|SGSM2\_HUMAN Small G protein signaling modulator 2 OS=Homo sapiens GN=SGSM2  
PE=1 SV=4

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GFLRSDKMAALFTKVGTCPVAGEICHKVQELQQQAEGRKPSGVSQEALRRQGSASGKAP  
ALSPQALKHVWVRTALIEKVLDKVVQYLAENCSKYEKEALLADPVFGPILASLLVGPCA  
LEYTKLKTADHYWTDPSADELVQRHRIRGPPTQDSPA KRPALGIRKRHSSGSASEDRLA  
ACARECVESLHQNSRTRLLYGKNHVLVQPKEDMEAVPGYLSLHQAESLTLKWTNPQLMN  
GTLGDSELEKSVYWDYALVVPFSQVVCIHCHQQKSGGTLVLVSQDGIQRPLHFPQGGHL  
LSFLSCLENGLLPRGQLEPPLWTQQKGKVPFKLRKRSSIRSVDMEEMGTGRATDYVFRI  
IYPGHRHEHNAGDMIEMQGFGPSLPAWHLEPLCSQGSSCLSCSSSSSPHATPSHCSCIPD  
RLPLRLLCESMKRQIVSRAFYGLAHCRHLSTVRTHLSALVHHSVIPDRPPGASAGLTK  
DVWSKYQKDKKNYKELELLRQVYGGIEHEIRKDVWPFLGHYKFGMSKKEME QVDAVVA  
ARYQQVLAEWKACEVVVRQREAH PATRTKFSSGSSIDSHVQRLIHRDSTISNDVFISV  
DDLEPPEPQDPEDSRPKPEQEAGPTPGTAVVEQQHSVEFDSPD SGLPSSRNYSVASGIQ  
SSLDEGQSVGFEEEDGGGEEGSSGPGPAHTLREPQDPSQEKPQAGELEAGEELA AVCAA  
AYTIELLDTVALNLHRIDKDVQRCDRNYWYFTPPNLERLRDVMCSYVWEHL DVGYYVQ GMC  
DLLAPLLVTLNDQLAYSCFSLMKRMSQNF PNGGAMDTHFANMRSLIQILDSELFELMH  
QNGDYTHFYFCYRWFLDFKRELLYEDVFAVWEVIWAARHISSEHFVLFIALALVEAYRE  
IIRDNNMDFTDIIKFFNERAEHHDAQEILRIARDLVHKVQMLIENK

>sp|Q9UQQ2|SH2B3\_HUMAN SH2B adapter protein 3 OS=Homo sapiens GN=SH2B3 PE=1 SV=2

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SEELAPRPPGPCSFQHFRRSLRHIFRRRSAGELPAAHTAAAPGTPGEAAETPARPGLAK  
KFLPWSLAREPPEALKEAVLRYSLADEASMDSGARWQRGRLALRRAPGPDGPDVLELF  
DPPKSSRPKLQAACSSIQEVWRCTREMPDNLYTFVLKVKDRTDIIFEVGDEQQLNSWMA  
ELSECTGRGLESTEAE MHIPSALEPSTSSSPRGSTD SLNQGASPGGLDPACQKTDHFLS  
CYPWFHGPISR VKAAQLVQLQGPDAHGVLVRQSETRRGEYVLT FNFQGI AKHLRLSLTE  
RGQCRVQHLHFPSVVDMLHHFQRSPIPLECGAACDVRLSSYVVVVSQPPGSCNTVLF PFS  
LPHWDESLPHWGSELGLPHLSSSGCPRGLSPEGLPGRSSPEQIFHLVPSPEELANSLQ  
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>sp|Q96B97|SH3K1\_HUMAN SH3 domain-containing kinase-binding protein 1 OS=Homo sapiens  
GN=SH3KBP1 PE=1 SV=2

MVEAIVEFDYQAQHDELTI SVGEIITNIRKEDGGWEGQINGRRGLFPDNFVREIKKEM  
KKDPLTNKAPEKPLHEVP SGNSLLSSETILRTNKRGERRRRRRCQVAFSYLPQNDDELELK  
VGDIIEVVGEVEEGWEGVLNGKTGMFPSNFIKELSGEDELGISQDEQLSKSSLRETTG  
SESDGGDSSSTKSEGANVTATAAIQPKVKGVGFGDIFDKDKPIKLRPRSIEVENDFLPV  
EKTIGKKLPATTATPDSSKTEMDSRTKSKDYCKVIFPYEAQNDELTIKEGDIVTLINKD  
CIDVGWWEGLNGRRGVFPDNFVKLLPPDFEKEGNRPKPPPPSAPVIKQGAGTTERKHE  
IKKIPPERPEMLPNRTEEKERPEREPKLDLQKPSVPAIPPKPRPPKTNLSRPGALPPR  
RPERPVGPLTHTRGDSPKIDLAGSSLSGILDKDLSDRSNDIDLEGFDSVVSSTEKLSHPT

TSRPKATGRRPPSQSLTSSSLSSPDIFDPSPEEDKEEHISLAHRGVDASKKTSKTVTIS  
QVSDNKASLPPKPGTMAAGGGGPAPLSSAAPSPLSSSLGTAGHRANSPSLFGTEGKPKME  
PAASSQAAVEELRTQVRELRSIETMKDQQKREIKQLSELDEEKKIRLRLQMEVNDIKK  
ALQSK

>sp|Q7Z6J0|SH3R1\_HUMAN E3 ubiquitin-protein ligase SH3RF1 OS=Homo sapiens GN=SH3RF1 PE=1  
SV=2

MDESALLDLLECPVCLERLDASAKVLPQHTFCKRCLLGIVGSRNELRCPECTRLVGSGV  
EELPSNILLVRLLDGIKQRPWKPGPGGGSGTNCTNALRSQSSTVANCSSKDLQSSQGGQQ  
PRVQSWSPVVRGIPQLPCAALYNYEGKEPGDLKFSKGDIIILRRQVDENWYHGEVNGIH  
GFFPTNFVQIIKPLPQPPQCKALYDFEVKDKEADKDCLPFAKDDVLTVIRRVNENWAE  
MLADKIGIFPISYVEFNAAKQLIEWDKPPVPGVDAGECSSAAAQSSTAPKHSSTKNTK  
KRHSFTSLTMANKSSQASQNRHSEISPPVLISSSNPTAAARISELSGLSCSAPSQVHIS  
TTGLIVTPPPSSPVTGTSFTFSDVPYQAALGTLNPPLPPPPLLAATVLAATPPGATAA  
AAAAGMGPRPMAGSTDQIAHLRPQTRPSVYVAIYPYTPRKEDELELRKGEMFLVFERCQD  
GWFKGTSMHTSKIGVFPNGYVAPVTRAVTNASQAKVPMSTAGQTSRGVTMVSPSTAGGPA  
QKLQGNVAGSPSVVPAAVVSAHIQTSPQAKVLLHMTGQMTVNQARNAVRTVAAHNQR  
PTAAVTPIQVQNAAGLSPASVGLSHSLASQPAPLMPGSATHTAAISISRASAPLACAA  
AAPLTSPSITSASLEAEPGRIVTVLPGLPTSPDSASSACGNSSATKPKDKSKEKKGLL  
KLLSGASTKRKPRVSPPASPTLEVELGSAELPLQGAVGPELPPGGGHGRAGSCPVDGDP  
VTTAVAGAALAQDAFHRKASSLDSAVPIAPPPRQACSSLGPVLNESRPVVCERHRVVVSY  
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>sp|Q96HL8|SH3Y1\_HUMAN SH3 domain-containing YSC84-like protein 1 OS=Homo sapiens  
GN=SH3YL1 PE=1 SV=1

MNNPIPSNLKSEAKKAAKILREFTEITSRNGPKIIPAHVIAKAKGLAILSVIKAGFLVT  
ARGGSGIVVARLPDGKWSAPSAIGIAGLGGGFEIGIEVSDLVIIILNYDRAVEAFKGGNL  
TLGGNLTAVGPLGRNLEGNVALRSSAAVFTYCKSRGLFAGVSLEGSCLIERKETNRKFY  
CQDIRAYDILFGDTPRPAQAEDLYEILDSFTEKYENEGQRINARKAAREQRKSSAKELPP  
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>sp|Q9UPX8|SHAN2\_HUMAN SH3 and multiple ankyrin repeat domains protein 2 OS=Homo sapiens  
GN=SHANK2 PE=1 SV=3

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TSHRSLSPQLLQQMPKPEGAAKTIGSYVPGPRSRSPSLNRLGGAGEDGKRPQPLWHVGS  
PFALGANKDSLSAFEYPGPKRKLVSAPVGRFLFVAVKPYQPQVDGEIPLHRGDRVKVLSIG  
EGGFWEQSARGHIGWFAECVEEVQCKPRDSQAETRADRSKKLFRHYTVGSYDSFDTSSD  
CIIEEKTVVLQKKDNEGFVLRGAKADTPIEEFTPTPAFPALQYLESVDEGGVAWQAGL  
RTGDFLIEVNNENNVKVGHRQVNMIRQGGNHLVLKVVTVTRNLDPPDTARKKAPPPPKR  
APTTALTLSKSMTSELEELVDKASVRKKKDKPEEIVPASKPSRAAENMAVEPRVATIKQ  
RPSSRCFPAGSDMNSVYERQGIAMVTPTPVPGSPKAPFLGIPRGTMRQKSIDSRIFLSGI  
TEEERQFLAPPMLKFTRSLMPDTSIEDIPPPQSVPPSPPPSPPTTYNCPKSPTPRVYGT  
IKPAFNQNSAAKVSPATRSDTVATMMREKGMFRRELDRLYSLDSEDLYSRNAGPQANFRN  
KRGQMPENPYSEVGKIASKAVYVPAKPARRKGMVLKQSNVEDSPEKTCSIPITIIIVKEP  
STSSSGKSSQGSSMEIDPQAPEPPSQLRPDES LTVSSPFAAAIAGAVRDREKRLEARRNS  
PAFLSTDLGDEDVGLGPPAPRTRPSMFPEEGDFAEDSAEQLSSPMPSATPREPENHFVG

GAEASAPGEAGRPLNSTSKAQGPESPAVPSASSGTAGPGNYVHPLTGRLLDPSSPLALA  
LSARDRAMKESQQGPKGEAPKADLNKPLYIDTKMRPSLDAGFPTVTRQNTRGPLRRQETE  
NKYETDLGRDRKGDDKKNMLIDIMDTSQQKSAGLLMVHTVDATKLDNALQEEDEKAEVEM  
KPDSSPSEVEGVSSETEGALQISAAPEPTTVPGRTIVAVGSMEEAVILPFRIPPPPLASV  
DLDEDFIFTEPLPPPLEFANSFDIPDDRAASVPALSDLVKQKKS DTPQSPSLNSSQPTNS  
ADSKKPASLSNCLPASFLPPPEFSFADAVADSGIEEVDSRSSSDHHLETTSTISTVSSISTL  
SSEGGENVDTCTVYADGQAFMVDKPPVPPKPKMKPIIHKSNALYQDALVEEDVDSFVIPP  
PAPPPPPGSAQPGMAKVLQPRTSKLWGDVTEIKSPIILSGPKANVISELNSILQQMNREKL  
AKPGEGLDSPMGAKSASLAPRSPEIMSTISGTRSTTVTFVTRPGTSQPITLQSRPPDYES  
RTSGTRRAPSPVVSPTMKNKETLPAPLSAATASPPALSDVFSLPSQPPSGDLFGLNPAG  
RSRSPSPSILQQPISNKPFTTKPVHLWTKPDVADWLESLNLGEHKEAFMDNEIDGSHLPN  
LQKEDLIDLGVTRVGHRMNIERALKQLLDR

>sp|AOMZ66|SHOT1\_HUMAN Shootin-1 OS=Homo sapiens GN=SHTN1 PE=1 SV=4

MNSSDEEKQLQLITSKEQAIGEYEDLRAENQKTKEKCDKIRQERDEAVKKLEEFQKISH  
MVEEVNFMQNHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLPDVITEEINID  
DEDSTTDTDGAAETCVSVQCQKQIKELRDQIVSVQEEKILAIIELENLKS KLVEVIEEVN  
KVKQEKTVLNSEVLEQRKVLEKCNRVSM LAVEEYEEMQVNLELEKDLRKKAESFAQEMFI  
EQNKLRQSHLLLQSSIPDQQLKALDENAKLTQQLEERI QHQQKVKELEEQLNETLH  
KEIHNLKQQLELLEEDKKELELKYQNSEEKARNLKHSVDELQKRVNQSENSVPPPPPPP  
PLPPPPPNPIRSLMSMIRKRSHPSGGAKKEKATQPETTEEVTDLKRQAVEEMMDRIKKG  
VHLRPVNQTARPKTKPESSKGCESAVDELKGILGTLNKSTSSRLKSLDPENSETELERI  
LRRRKVTAEADSSPTGILATSESKSMPVLGSVSSVTKTALNKKTLAEFNSPSPPTPEP  
GEGPRKLEGCTSSKVTFPQSSIGCRKKYIDGEKQAEPVVVLDPVSTHEPQTKDQVAEKD  
PTQHKEDGEIQPENKEDSIENVRETSSNC

>sp|Q9UJ6|SHPK\_HUMAN Sedoheptulokinase OS=Homo sapiens GN=SHPK PE=1 SV=3

MAARPITLGIDLGTTSVKAALLRAAPDDPSGFAVLASCARAARAEAAVESAVAGPQGREQ  
DVSRIQLALHECLAALPRPQLRSVVGIGVSGQM HGVVFWKTGGCEWTEGGITPVFEPRA  
VSHLVTWQDGRCSSEFLASLPQPKSHLSVATGFGCATIFWLLKYRPEFLKSYDAAGTIHD  
YVVAMLCGLPRPLMSDQNAASWG YFNTQSQSWNVETLRSSGFPVHLLPDIAEPGSVAGRT  
SHMWFEIPKGTQVGVALGDLQASVYSCMAQR TDAVLNISTSVQLAASMPSGFQPAQTPDP  
TAPVAYFPYFNRTYL GVAASLNGGNVLATFVHMLVQWMADLGLEVEESTVYSRMIQAAVQ  
QRDTHLTITPTVLGERHLPDQLASVTRISSDLSLGHVTRALCRGIVQNLHSM LPIQQLQ  
DWGVERVMGSGSALS RNDVLKQEVQRAFPLPMSFGQDVDAVGAALVMLRRHLNQKES

>sp|AOPJX4|SHSA3\_HUMAN Protein shisa-3 homolog OS=Homo sapiens GN=SHISA3 PE=1 SV=1

MRALLALCLLLGWL RWGPAQAQSGEYCHGWVDVQGN YHEGFQCPEDFDTLATICCGSC  
ALRYCCAAADARLEQGGCTNDRRELEHPGITAQPVYVPFLIVGSIFIAFIILGSVVAIYC  
CTCLRPKEPSQQPIRFSLSYQTETLPMILTSTSPRAPSRSQSTATSSSSTGGSIRRF SF  
ARAEPGCLVPSPPPPYTSHS IHLAQPSGFLVSPQYFAYPLQQEPPLPGKSCPDFSSS

>sp|043166|SI1L1\_HUMAN Signal-induced proliferation-associated 1-like protein 1 OS=Homo sapiens GN=SIPA1L1 PE=1 SV=4

MTSLKRSQTERPLATDRASVVGTDGTPKVHTDDFYMRFRSQNGSLGSSVMAPVGPPRSE  
GSHHITSTPGVPMGVRARIADWPPRKENIKESSRSSQE IETSSCLDSLSSKSSPVSQGS  
SVSLNSNDSAMLKSIQNTLKNKTRPSENMDSRFLMPEAYPSSPRKALRRIRQRSNSDITI  
SELDVDSFDECISPTYKTGPSLHREYGSTSSIDKQGTSGESFFDLLKG YKDDKSDRGPTP

TKLSDFLITGGGKSGFSLDIVDGPISQRENLRLEKEREKPLKRRSKSETGDSSIFRKL  
NAKGEELGKSSDLEDNRSEDSVRPWTCPKCFAYHDVQSILFDLNEAIMNRHNVIKRRNTT  
TGASAAVASLVSGPLSHSASFSSPMGSTEDLNSKGSLSMDQGDDKSNELVMSCPYFRNE  
IGGEGERKISLSKNSGFSGCEASFESTLSSHCTNAGVAVLEVPEKNLVLHLDRVKRY  
IVEHVDLGAYYYRKFFYQKEHWNYPGADENLGPVAVSIRREKPDENKENGSPYNYRIIFR  
TSEMLTLRGSVLEDAIPSTAKHSTARGPLPLKEVLEHVPELVNQCLRLAFNTPKVTEQLM  
KLDEQGLNYQQKVGIMYCKAGQSTEEEMYNNEAGAPAFEEFLQLGERVRLKGFKEYRAQ  
LDTKTDSTGTHSLYTTYKDYEIMFHVSTMLPYTPNNKQQLLRKRHIGNDIVTIVFQEPGA  
QPFSPKNIRSHFQHVFIIVRVHNPSCDSVCYSVAVTRSRDVPSPGPPIPKGVTFPKSNVF  
RDFLLAKVINAENAAHKSEKFRAMATRTRQEYLDLAENVTNTPIDPSGKFPFISLASK  
KKEKSKPYGAELSSMGAIVWAVRAEDYNKAMELDCLLGISNEFIVLIEQETKSVVFNC  
CRDIVIGWTSTDTSLKIFYERGECSVGSFINIEEIKEIVKRLQFVSKGCESVEMTLRRNG  
LGQLGFHVNYEGIVADVEPYGYAWQAGLRQGSRLVEICKVAVATLSHEQMIDLLRTSVTV  
KVVIIPPHDDCTPRRSCSETYRMPVMEYKMEGVSSEYEFKFPFRNNKQWRNASKGPHSPQ  
VPSQVQSPMSTRNLNAGKDGKMPPEPAAANIPRSISSDGRPLERRLSPGSDIYVTVSSMA  
LARSQCRNSPNSLSSSSDTGSGVGGTYRQKSMPEGFGVSRSPASIDRQNTQSDIGSGKS  
TPSWQRSEDSIADQMAYSIRGPDQFNSFVLEQHEYTEPTCHLPAVSKVLPAPFRESPGRL  
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GTSADSGIDTTSYGPSHGSTASLGAATSSPRSGPGKEKVAPLWHSSSEVISMAVRTLE  
SHGLDRKTESSSLDIHKSQAGSTPLTRENSTFSINDAASHTSTMSSRHSASPVVFTSA  
RSSPKEELHPAAPSQ LAPSFSSSSSSSGPRSFYPRQGATSKYLIGWKKPEGTINSVGFM  
DTRKRHQSDGNEIAHTRLASTRDLRASPKPTSKSTIEEDLKKLIDLESPTPESQKSFKF  
HALSSPQSPFPSTPTSRRLHRTLSDESIYNSQREHFFTSRASLLDQALPNDVLFSSSTYP  
SLPKSLPLRRPSYTLGMKSLHGEFSASDSSLTDIQETRRQMPDPGLMPLPDTAADLDWS  
NLVDAAKAYEVQRASFFAASDENHRPLSAASNSDQLEDQALAQMKPYSSSKDSSPTLASK  
VDQLEGMLKMLREDLKKEKEDKAHLQAEVQHLREDNLRLQEESQNASDKLKKFTEWVFNT  
IDMS

>sp|060292|SI1L3\_HUMAN Signal-induced proliferation-associated 1-like protein 3 OS=Homo  
sapiens GN=SIPA1L3 PE=1 SV=3

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ATATTRPSPTTPAMPKMGVRARVADWPPKREALREHSNPPSPSQD TDGKATKMAHSMRSI  
QNGQPPTSTPASSGKAFHRLSRRRSKDVEFQDGWPRSPGRAFLPLRHRSSSEITLSECD  
AEDAGEPRGARHTGALPLFREYGSTSSIDVQGMPEQSFFDILNEFRSEQPDARGCQALTE  
LLRADPGPHLMGGGGGAKGDSHNGQPAKDSLPLQPTKEKEKARKKPARGLGGGDTVDDSS  
IFRKLRSKPEGEAGRSPGEADEGRSPPEASRPWVCQKSFAHFDVQSMLFDLNEAAANRV  
SVSQRNNTTTGASAAASAMASLTASRAHSLGGLDPAFTSTEDLNCKENLEQDLGDDNS  
NDLLSCPHFRNEIGGECERNVSFSRASVSPSSGEGHLAEPALSAYRTNASISVLEVPK  
EQQRTQSRPRQYSIEHVDLGARYYQDYFVGKEHANYFGVDEKLGPAVSIKREKLEDHKE  
HGPQYQYRIIFRTRELITLGRSILEDATPTATKHGTGRGLPLKDALEYVIPLENIHCLRL  
ALNTPKVTEQLLKLDEQGLCRKHKVGILYCKAGQSSEEMYNNEAGAPAFEEFLSLIGEK  
VCLKGFTKYAAQLDVKTDSTGTHSLYTMQDYIMFHVSTLLPYTPNNRQQLLRKRHIGN  
DIVTIIIFQEPGALPFTPKNIRSHFQHVFIIVRVHNPCTDNVCYSMAVTRSKDAPPFGPPI  
PSGTTFRKSDVFRDFLLAKVINAENAAHKSDKFHTMATRTRQEYLDLAENCVSNTPID  
TGKFNLIISLTSKKKEKTKARAGAEQHSAGAIARVVAQDYAQGVEIDCILGISNEFVVLL

DLRTKEVVFNCYCGDVIGWTPDSSTLKIFYGRGDHIFLQATEGSVEDIREIVQRLKVMTS  
GWETVDMTLRRNGLGQLGFHVKYDGTVAEVEDYGFAWQAGLRQGSRLVEICKVAVVTLTH  
DQMIDLLRTSVTVKVVIIPPFDGTPRRGWPETYDMNTSEPKTEQESITPGRPPYRSNA  
PWQWSGPASHNSLPASKWATPTTPGHAQSLSRPLKQTPIVPFRESQPLHSKRPFVFPETP  
YTVSPAGADRVPPYRQPSGSFSTPGSATYVRYKPSPERYTAAPHLLSLDPHFSDGTSS  
GDSSSGGLTSQESTMERQKPEPLWHVPAQARLSAIAGSSGNKHPSRQDAAGKDSPNRHSK  
GEPQYSSHSSNTLSSNASSSHSDDRWFDPDPLEPEQDPLSKGGSSDSGIDTTLTYTSSP  
SCMSLAKAPRPAKPHKPPGSMGLCGGREAAGRSHHARRRREVSPAPAVAGQSKGYRPKL  
YSSGSSTPTGLAGGSRDPPRQPSDMGSRVGYPQVYKTASAETPRPSQLAQSPFQLSAS  
VPKSFFSKQPVRNKHPTGWKRTEPPPRPLPFSDPKKQVDNTKNVFGQPRLRASLRDLR  
SPRKNYKSTIEDDLKKLIIMDNLGPEQERDTGQSPQKGLQRTLSDSLCSGRREPSFASP  
AGLEPLPSDVLFTSTCAFPSSTLPARRQHHPHPVPGATPAAGSGFPEKKSTISASE  
LSLADGRDRPLRRLDPGLMPLPDTAAGLEWSSLVNAKAYEVQRAVSLFSLNDPALSPDI  
PPAHSPVHSHLSLGRGPPTPTPTMSEEPPLDLTGKVYQLEVMLKQLHTDLQKEKQDKV  
VLQSEVASLRQNNQRLQEESQAASEQLRKFAEIFCREKKEL

>sp|Q9Y274|SIA10\_HUMAN Type 2 lactosamine alpha-2,3-sialyltransferase OS=Homo sapiens  
GN=ST3GAL6 PE=1 SV=1

MRGYLVAIFLSAVFLYYVLHLCILWGTNVYWVAPVEMKRRNKIQPCLSKPAFASLLRFHQF  
HPFLCAADFRKIASLYGSDKFDLPYGMRTSAEYFRLALSKLQSCDLFDEFDNI PCKKCVV  
VGNGGVLKNKTLGEKIDSVDVIRMNNGPVLGHEEEVGRRTTFRLFYPESVFSDP IHNDP  
NTTVILTAFKPHDLRWLLELLMGDKINTNGFWKKPALNLIYPYQIRILDPI IRTAAEY  
LLHFPKVFPKNQPKHPTTGIIAITLAFYICHEVHLAGFKYNFSDLKSPLHYYGNATMSL  
MNKNAYHNVTAEQLFLKDIIEKNLVINLTQD

>sp|Q9NSC7|SIA7A\_HUMAN Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1  
OS=Homo sapiens GN=ST6GALNAC1 PE=2 SV=1

MRSCWLRCRHL SQGVQWSLLLAVLVFFLFALPSFIKEPQTKPSRHRQRTENIKERSLQSLA  
KPKSQAPTRARRTTIYAEPVPENNALNTQTQPKAHTTGDRGKEANQAPPEEQDKVPHTAQ  
RAAWKSPEKEKTMVNLTSPRGQDAGMASGRTEAQSWKSQDTKTTQNGGGQTRKL TASRTV  
SEKHQKAATTAKTLIPKSQHRLAPTGA VSTRTRQKGVT TAVIPPKEKKPQATPPPAPF  
QSPTTQRNQLKAANFKSEPRWDFEEKYSFEIGGLQTTCPDSVKIKASKSLWLQKFLPN  
LTLFLDSRHFNQSEWDRLEHFAPPFGFMELNYSLVQKV VTRFPVPQQQLLLASLPAGSL  
RCITCAVVGNGGILNNSHMGEIDSHDYVFRLSGALIKGYEQDVGTRTSFYGF TAFSLTQ  
SLLILGNRGFKNVPLGKDVRYLHFLEGT RDYEWLEALLMNQTVMSKNLFWFRHRPQEAFR  
EALHMDRYLLLPDFLR YMKNRFLRSKTL DGAHWRIYRPTTGALLLTALQLCDQVSAYG  
FITEGHERFSDHYDTSWKRLIFYINHDFKLEREVWKRLHDEGIIRLYQRPGPGTAKAKN

>sp|Q92186|SIA8B\_HUMAN Alpha-2,8-sialyltransferase 8B OS=Homo sapiens GN=ST8SIA2 PE=2  
SV=1

MQLQFRSWMLAALTLLVVFLIFADISEIEEEEIGNSGGRGTIRSAVNSLHSSKNRAEVVIN  
GSSSPAVVDRSNESIKHNIQPASSKWRHNQTL SLRIRKQILKFLDAEKDISVLKGT LKPG  
DIIHYIFDRDSTMNVSQNL YELLPRTSPLKNKHFGTCAIVGNSGVLLNSGCGQEIDAHSF  
VIRCNLAPVQEYARDVGLKTDLVTMNPSVIQRAFEDLVNATWREKLLQRLHSLNGSILWI  
PAFMARGGKERVEVWNELILKHHVNVRTAYPSLRLLHAVRGYWL TNKVHIKRPTTGLLMY  
TLATRFCKQIYLYGFWPFLDQNNQNPVKYHYDSDLKYGYTSQASPTMPLEFKALKSLHE  
QGALKLTVGQCDGAT

>sp|Q8IW03|SIAH3\_HUMAN Seven in absentia homolog 3 OS=Homo sapiens GN=SIAH3 PE=2 SV=3

MLFFTQCFGAVLDLIHLRFQHYKAKRVFSAAGQLVCVNPETHNLKYVSSRRAVTQSAPEQ  
GSFHPHHLSHHHCHRRHHHLRHHAHPHLHHQEAGLHANPVTPCLCMCPFLSCQWEGRL  
EVVVPHLRQIHRVDILQGAEIVFLATDMHLPAPADWIIMHSLGHHFLLVLRKQERHEGH  
PQFFATMMLIGTPTQADCFTYRLELNRNHRRLKWEATPRSVLECVDSDITDGDCLVLNTS  
LAQLFSDNGSLAIGIAITATEVLPSEAEM

>sp|P15907|SIAT1\_HUMAN Beta-galactoside alpha-2,6-sialyltransferase 1 OS=Homo sapiens  
GN=ST6GAL1 PE=1 SV=1

MIHTNLKKKFSCCVLVFLFAVICVWKEKKKGSYYDSFKLQTKFQVLKSLGKLAMGSDS  
QSVSSSSTQDPHRGRQTLGSLRGLAKAKPEASFQVWNKDSSSKNLIPRLQKIWKNYLSMN  
KYKVSYPGPGIKFSAEALRCHLRDHVNVSMVEVTDPFNTSEWEGYLPKESIRTKAGP  
WGRCAVSSAGSLKSSQLGREIDDHDAVLRFNAGAPTANFQQDVGTKTIRLMNSQLVTTE  
KRFLKDSLYNEGILIVWDPVYHSDIPKQYQNPYNFFNNYKTYRKLHPNQPFYILKPQM  
PWELWDILQEISPEEIQPNPPSSGMLGIIIMMTLCDQVDIYEFLPSKRKTDVCYYYQKFF  
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>sp|Q96JF0|SIAT2\_HUMAN Beta-galactoside alpha-2,6-sialyltransferase 2 OS=Homo sapiens  
GN=ST6GAL2 PE=1 SV=2

MKPHLKQWRQRMFGIFAWGLLFLIFIFYFTDSNPAEPVPSSLSFLETRRLLPVQGKQRA  
IMGAAHEPSPPGGLDARQALPRAHPAGSFHAGPGDLQWAQSQDGFHKEFFSSQVGRKS  
QSAFYPEDDDYFFAAGQPGWHSHTQGTGLGFSPGEPGREGAFPAAQVQRRRVKKRHRRQ  
RRSHVLEEEDDGDRLYSSMSRAFLYRLWKGNVSSKMLNPRLQKAMKDYLTANKHGVRFRG  
KREAGLSRAQLLCQLRSRVRVTLTGTEAPFSALGWRRLPVAVPLSQLHPRGLRSCAVVM  
SAGAILNSSLGEEIDSHDAVLRFNAPTRGYEKDVGNKTTIRIINSQILTNPSHHFIDSS  
LYKDVILVAWDPAPYSANLNLWYKKPDYNLFTPYIQHRQRNPNQPFYILHPKFIWQLWDI  
IQENTKEKIQPNPPSSGFIGILIMMSMCREVHVYIYIPSVRQTELCHYHELYYDAACTLG  
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>sp|Q9UNP4|SIAT9\_HUMAN Lactosylceramide alpha-2,3-sialyltransferase OS=Homo sapiens  
GN=ST3GAL5 PE=1 SV=4

MRTKAAGCAERRPLQPRTEAAAAPAGRAMPSEYTYVKLRSDCSRPSLQWYTRAQSKMRRP  
SLLLDILKCTLLVFGVWILYILKLNYYTTEECMDKMHYVDPDHVKRAQKYAQQVLQKEC  
RPFKAKTSMALLFEHRYSDLLPFVQKAPKDEAESKYDPPFGFRKFSSKVQTLLELLPE  
HDLPEHLKAKTCRCVVGSGGILHGLELGHNLNFDVVIIRLNSAPVEGYSEHVGNKTTI  
RMTYPEGAPLSDLEYYSNDFVAVLFKSVDNWLQAMVKKETLPFWVRLFFWKQVAEKIP  
LQPKHFRILNPVLIKETAFDILQYSEPQSRFWGRDKNVPTIGVIAVVLATHLCDEVSLAG  
FGYDLNQPRTPHYFDSQCMAAMNFQTMHNVTTETKFLKLKVEGVVKDLSSGGIDREF

>sp|Q96HG1|SIM10\_HUMAN Small integral membrane protein 10 OS=Homo sapiens GN=SMIM10 PE=3  
SV=4

MEALGSGHYVGGIRSMAAAALSGLAVRLSRPQGTRGSYGAFCKTLTRTLLTFFDLAWRL  
RKNFFYFYILASVILNVHLQVYI

>sp|Q9H106|SIRPD\_HUMAN Signal-regulatory protein delta OS=Homo sapiens GN=SIRPD PE=2 SV=2

MPIPASPLHPPLPSLLLYLLELAGVTHVFHVQQTEMSQTVSTGESIILSCSVNTPNLNG  
PVLWFKGTGPNRKLINFKQGNFPRVKEIGDTTKPGNTDFSTRIREISLADAGTYVCVKF  
IKGRAIKEYQSGRGTQVFVTEQNPRPPKNRPAGRAGSRAHHAHTCLSALPERNSTNYFV  
QPCCCLRLGLTGLLSK

>sp|Q9Y3P8|SIT1\_HUMAN Signaling threshold-regulating transmembrane adapter 1 OS=Homo sapiens GN=SIT1 PE=1 SV=1

MNQADPRLRAVCLWLTSAAMSRGDNCTDLLALGIPSITQAWGLWVLLGAVTLLFLISLA  
AHLQWTRGRSRSHPGQGRSGESVEEPLYGNLHYLQTGRLSQDPEPDQQDPTLGGPARA  
AEEVMCYTSLQLRPPQGRIPGPGTPVKYSEVVDSEPKSQASGPEPELYASVCAQTRRAR  
ASFPDQAYANSQPAAS

>sp|Q8N196|SIX5\_HUMAN Homeobox protein SIX5 OS=Homo sapiens GN=SIX5 PE=1 SV=3

MATLPAEPSAGPAAGGEAVAAAAATEEEEEEARQLLQTLQAAEGEAAAAAGAGAGAAAAG  
AEGPGSPGVPSPPEAASEPPTGLRFSPEQVACVCEALLQAGHAGRLSRFLGALPPAERL  
RGSDPVLRARALVAFQRGEYAELYRLLESRPFAAHHAFLQDLYLRARYHEAERARGRAL  
GAVDKYRLRKKFPLPKTIWDGEETVYCFKERSRAALKACYRGNRYPTPDEKRRLATLTGL  
SLTQVSNWFKNRRQRDTGAGGGAPCKSESDGNPTTEDESSRSPEDLERGAAPVSAEAAA  
QGSIFLAGTGPPAPCPASSSILVNGSFLAASGSPAVLLNGGPVIINGLALGEASSLGPLL  
LTGGGGAPPPQSPQGASETKTSLVLDPQTGEVRLEEAQSEAPETKGAQVAAPGPALGEE  
VLGPLAQVVPGPPTAATFPLPPGPVPAVAAPQVVPLSPPPGYPTGLSPTSPLLNLQVVP  
TSQVVTLPQAVGPLQLLAAGPGSPVKVAAAAGPANVHLINSGVGVTALQLPSATAPGNFL  
LANPVSGSPIVTGVALQQGKIILTATFPTSMMLVSQVLPPAPGLALPLKPETAISVPEGGL  
PVAPSPALPEAHALGTLAQPPPPAAATTSSTSLPSPDSPGLLPNFPAPPPEGLMLSPA  
AVPVWSAGLELSAGTEGLLEAEKGLGTQAPHTVLRLPDPDPEGLLLGATAGGEVDEGLEA  
EAKVLTQLQSVPVVEEPELEL

>sp|Q2VWA4|SKOR2\_HUMAN SKI family transcriptional corepressor 2 OS=Homo sapiens GN=SKOR2 PE=1 SV=2

MASSPLPGPNIDILLASPSSAFQPDLSQPRPGHANLKPQVGVILYGIPIVSLVIDGQE  
RLCLAQISNTLLKNFSYNEIHNRRVALGITCVQCTPVQLEILRRAGAMPISRRCGMITK  
REAERLCKSFLGENRPPKLPDNFAFDVSHCAWGCGRGSFIPARYNSSRAKCIKCSYCNMY  
FSPNKFIFHSHRTPDAKYTPDAANFNSWRRHLKLTDKSPQDELVFAWEDVKAMFNGGSR  
KRALPQPGAHPACHPLSSVKAATAVAVAGGGGLLGPILLGAPPPPPPPPPPLAELAG  
APHAHHKRPRFDDDDSLQEAATAVAAASLSAAASLSVAAASGGAGTGGGGAGGGCVAGV  
GVGAGAGAGAGAGAKGPRSYPIPVPSKGSFGGVLQKFPGCGGLFPHPYTFPAAAAFSL  
CHKKEDAGAAAEALGGAGAGGAGAAPKAGLSGLFWPAGRKDAFYPPFCMFWPRTPGGLP  
VPTYLQPPPPPPSALGCALGESALLRQAFLDLAEPGGAAGSAEAAPPGQPPQVVANGP  
GSGPPPPAGGAGSRDALFESPPGGSGGDCSAGSTPPADSVAAAGAGAAAAGSGPAGSRVP  
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HHHHHHHHPPQPPSPLLLLPPQPDEPGSERHHPAPPPPPPPPPPLAQHPHHRGLLSPG  
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LVGGGRFLQGRGPSEKGSRRAPAVAGAFPLGLNSSRLLQEDGKLGDPSDLPPPPPPP  
LAPQKASGGGSSSPGVHHSLEEQPSYKDSQKTKENNQVIVSTKDDNSFSKDKNEHSF  
FITSDASGGDFWRERSGEHTQETNSPHSLKKDVENMGKEELQKVLFEQIDLRRLEQEF  
QVLKGNTSFPVFNNFQDQMKRELAYREEMVQQLQIVSCIST

>sp|Q9Y2E8|SL9A8\_HUMAN Sodium/hydrogen exchanger 8 OS=Homo sapiens GN=SLC9A8 PE=1 SV=4

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FRPNMFFLLLLPIIFESGYSLHKGNFQNGSITLFAVFGTAISAFVVGGIYFLGQAD  
VISKLNMTDSFAFGSLISAVDPVATIAIFNALHVPVLNMLVFGESILNDAVSIVLTNTA

EGLTRKNMSDVSGWQTFLLQALDYFLKMFSGSAAAGTLTGLISALVLKHIDLRKTPSLEFG  
MMIIFAYLPYGLAEGISLSGIMAILFSGIVMSHYTHHNLSPVTQILMQQLRTVAFLCET  
CVFAFLGLSIFSFPHKFEISFVIWCIVLVLFGRAVNIFPLSYLLNFFRDHKITPKMMFIM  
WFSGLRGAIPYALSLHLDLEPMEKRQLIGTTTTIVIVLFTILLGGSTMPLIRLMDIEDAK  
AHRRNKKDVNLSKTEKMGNTVESEHLSLTEEEYEAHYIRRQDLKGFVWLDKYLNPFFT  
RRLTQEDLHHGRIQMKTLTNKWYEEVRQGPSGEDDEQEELL

>sp|Q68CJ6|SLIP\_HUMAN Nuclear GTPase SLIP-GC OS=Homo sapiens GN=NUGGC PE=2 SV=3

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LSNTYQKLIQSVFLDDSIPIGVKYLINRLLALIEKPTVDPIYIALFGSTGAGKSSLINAI  
IQQAMFLPVSGESICTSCIVQVSSGCCVQYEAKIHLLSDQEWREELKNLTKLLHRTEELS  
REEADAWNREAVEEATWKLQMIYNGAESKNYEELLRAKPKRKIPTSRVITLKAEEAEE  
LSIKLDPYIRTQRRDWDGAAEMRIWPLIKHVEVTLPKSDLIPEGVVLVDIPGTGDFNSK  
RDEMWKKTIDKCSVIWVISDIERVSGGAHEDLLNESIKACQRGFCRDVALVVTKMDKLH  
LPEYLRERKAGNQAIQSQREAVLERNEMIKLQRTRILKEKLKRKLPADEFKYLEASDLVYT  
VSAQEYWQALLTEEETEIPKLREYIRKSLDDKKKRTVTKYVTEAFGLLLLTDSFNSTQN  
LPNEHLHMSVLRRAEEKVELLEKAIACQFACMEQPLQEGVRTARTSYRCILRACLVRSK  
GNQGFHQTLKAVCLKNGIYASRTLARIDLNEALTQPVYDQIDPVFGSIFRTGKPTGSALM  
PHIDAFKQSLQEKMTETIGIRSGWKYDSCKNFLIQEISAILGGLEDHILRRKRRIYESLT  
ASVQSDLKLCYEEAAQITGKKACERMKDAIRRGVDRQVAEGMFERAQERMQHQQQLKTG  
IVEKVKGSITTMLALASSQGDGLYKELADVGSEYKEMEKLHRSREVAENARLRKGMQEF  
LLRASPSKAGPPGTSL

>sp|075093|SLIT1\_HUMAN Slit homolog 1 protein OS=Homo sapiens GN=SLIT1 PE=2 SV=4

MALTPGWGSSAGPVRPELWLLWAAAWRLGASACPALCTCTGTTVDCHGTGLQAIPKNIP  
RNTERLELNGNNITRIHKNDFAGLKQLRVLQLMENQIGAVERGAFDDMKELERLRLNRNQ  
LHMLPELLFQNNQALSRLDSENATQAIIPKAFRGATDLKNLQLDKNQISCTEEGAFRAL  
RGLEVLTLNNNNITIPVSSFNHPKLRTFRLHSNHLFCDCHLAWLSQWLRQRPTIGLFT  
QCSGPASLRGLNVAEVQKSEFSCSGQGEAGRVPTCTLSSGSCPAMCTCSNGIVDCRGKGL  
TAIPANLPETMTETIRLELNGIKSIPPGAFSPYRKLRRIDLSNNQIAEIPDAFQGLRSLN  
SLVLVGNKITDLPRGVFGGLYTLQLLLLNANKINCIRPDAFQDLQNLSSLSDYDNKIQSL  
AKGFTFTSLRAIQTLHLAQNPFI CDCNLKWLADFLRTNPIETSGARCASPRRLANKRIGQI  
KSKKFRCSAKEQYFIPGTEDYQLNSECNSDVVCPhKCRCEANVVECSSLKLTKIPERIPQ  
STAELRLNNEISILEATGMFKKLTHLKKINLSNNKVSEIEDGAFEGAASVSELHLTANQ  
LESIRSGMFRGLDGLRTLMLRNNRISCIHNSFTGLRNVRLSLSDYDNQITTVSPGAFDTL  
QSLSTLNLNLANPFCNCQLAWLGGWLRKRKIVTGNPRCQNPDFLRQIPLQDVAFPDFRCE  
EGQEEGGCLPRPQCPQECACLDTVVRCSNHLRALPKGIPKNVTELYLDGNQFTLVPQGL  
STFKYLQLVDLSNNKISSLSNSSFTNMSQLTTLILSYNALQCIPPLAFQGLRSLRLSLH  
GNDISTLQEGIFADVTSLSHLAIGANPLYCDCHLRWLSWVKTYKEPGIARCAGPQDME  
GKLLLTTPAKKFECQPPTLAVQAKCDLCLSSPCQNQGTCHNDPLEVYRCACPSGYKGRD  
CEVSLDSCSSGPCENGCTHAQEGEDAPFTCSCPTGFEGPTCGVNTDDCVDHACANGGVC  
VDGVGNYTCQCLQYEGKACEQLVDLCSPDLNPCQHEAQCVGTPDGPRCECMPGYAGDNC  
SENQDDCRDHRCQNGAQCMDEVNSYSCLCAEGYSGQLCEIPPHLPAPKSPCEGTECQNGA  
NCVDQGNRPVCQCLPGFGGPECEKLLSVNFVDRDTYLQFTDLQNWPRANITLQVSTAEDN  
GILLYGNDNDHIAVELYQGHVRVSYDPGSYPSSAIYSAETINDGQFHTVELVAFDQMVNL  
SIDGGSPMTMDNFGKHYYTLNSEAPLYVGGMPVDVNSAAFRLWQILNGTGFHGCIRNLYIN



NELQDFTKTQMKPGVVPGCEPCRKLYCLHGICQPNATPGPMCHCEAGWVGLHCDQPADGP  
CHGHKCVHGGCVPLDALSYSCQCQDGYSGALCNQAGALAEPCRGLQCLHGHCAASGTKGA  
HCVCDPGFSGELCEQESECRGDPVRDFHQVQRGYAICQTTRPLSWVECRGSCPGQGCCQG  
LRLKRRKFTFECSGDTSFEEVEKPTKCGCALCA

>sp|Q14BN4|SLMAP\_HUMAN Sarcolemmal membrane-associated protein OS=Homo sapiens GN=SLMAP  
PE=1 SV=1

MPSALAIFTCRPNSHPFQERHVYLDEPIKIGRSVARCRPAQNNATFDCKVLSRNHALVWF  
DHKTGKFYLQDTKSSNGTFINSQRLSRGSEESPPCEILSGDIIQFGVDVTENTRKVTHGC  
IVSTIKLFLPDGMEARLRSVDIHAFLPSPVDKVAANTPSMYSQELFQLSQYLQEALHREQ  
MLEQKLATLQRLLAITQEASDTSWQALIDEDRLSRLEVGMGNQLQACSKNQTEDSLRKEL  
IALQEDKHNYETTAKESLRRLVQEKEIEVVRKLSERVERLSNTEDECTHLKEMNERTQEEL  
RELANKYNGAVNEIKDLSDKLKAEGKQEEIQKKGAEKKELQHKIDEMEEKEQELQAKI  
EALQADNDFTNERLTALQVRLEHLQEKTKECSSLEHLLSKSGGDCTFIHQFIECQKKLI  
VEGHLTKAVEETKLSKENQTRAKESDFSDTLSPSKEKSSDDTTDAQMDEQDLNEPLAKVS  
LLKDDLQGAQSEIEAKQEIQHRLKELIEAQELARTSKQKCFELQALLEEERKAYRNQVEE  
STKQIQVLQAQLQRLHIDTENLREEKDSEITSTRDELLSARDEILLHQAAAKVASERDT  
DIASLQEEELKKVRAELERWRKAASEYEKEITSLQNSFQLRCQQCEDQQREEATRLQGELE  
KLKKEWNALETECHSLKRENVLLSSELQRQEKELHNSQKQSELTSDLSILQMSRKELEN  
QVGSLEQHLRDSADLKTLLSKAENQAKDVQKEYEKTQTVLSELKLFEMTEQEKQSITD  
ELKQCKNNLKLREKGNKPWPWPMPLAALVAVTAIVLYVPLARASP

>sp|Q13485|SMAD4\_HUMAN Mothers against decapentaplegic homolog 4 OS=Homo sapiens GN=SMAD4  
PE=1 SV=1

MDNMSITNTPTSNDACLSIVHSLMCHRQGGESETFAKRAIESLVKKLKEKKDELDLITA  
ITTNGAHPKCVTIQRTLDGRLQVAGRKGFPHVIYARLWRWPDHLKNEKHKVYCYAFD  
LKCDSCVCNPNYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQ  
TIQHPPSNRASTETYSTPALLAPSESATSTANFPNIPVASTSQPASILGGSHSEGLLQI  
ASGPQPGQQNGFTGQPATYHHNSTTTWTGSRTAPYTPNLPHHQNGHLQHHPMPHPHGH  
YWPVHNELAFQPPISNHPAPEYWCSIAYFEMDVQVGETFKVPSSCPIVTVDGYVDPSSGD  
RFCLGQLSNVHRTEAIERARLHIGKGVLECKGEGDVVVRCLSDHAVFVQSYLDREAGR  
APGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQAAAAAQAAGVAGNIPGPGSVGGIAP  
AISLSAAAAGIGVDDLRLRLCILRMSFVKGWGPDYPRQSIKETPCWIEIHLHRLQLLDEVL  
HTMPIADPQPLD

>sp|Q9BSF0|SMAKA\_HUMAN Small membrane A-kinase anchor protein OS=Homo sapiens GN=C2orf88  
PE=1 SV=2

MGCMKSKQTFPFPTIYEGEKQHESEEPFMPEERCLPRMASPVNVKEEVKEPPGTNTVILE  
YAHRLSQDILCDALQQWACNNIKYHDIPYIESEGP

>sp|O00193|SMAP\_HUMAN Small acidic protein OS=Homo sapiens GN=SMAP PE=1 SV=1

MSAARESHPHGVKRSASPDDDLGSSNWEADLGNEERKQKFLRLMGAGKKEHTGRLVIGD  
HKSTSHFRTGEEDKKINEELESYQQSMDSKLSGRYRRHCGLGFSEVEDHDGEGDVAGDD  
DDDDDDSPDPESPDDSESDSESEKEESAELQAAEHPDEVEDPKNKKDAKSNYKMMFVKS  
SGS

>sp|Q14683|SMC1A\_HUMAN Structural maintenance of chromosomes protein 1A OS=Homo sapiens  
GN=SMC1A PE=1 SV=2

MGFLKLIIEINFKSYKGRQIIIGPFQRFTAIIGPNGSGKSNLMDAISFVLGEKTSNLRVKT

LRDLIHGAPVGKPAANRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKVVLHEYSEE  
LEKLGILIKARNFLVFQGAVESIAMKNPKERTALFEEISRSGELAQEYDKRKKEMVKAEE  
DTQFNHYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQLFKLYHNEVEIEKLNK  
ELASKNKEIEKDKKRMDDKVEDELKEKKELGKMMREQQQIEKEIKEKDESELNQKRPQYIK  
AKENTSHKIKKLEAAKKSLLQNAQKHKKRKGDMDELEKEMLSVEKARQEFEEERMEEESQS  
QGRDLTLEENQVKKYHRLKEEASKRAATLAQELEKFNRDQKADQDRDLDEERKKVETEA  
IKQKLREIEENQKRIEKL EYITTSKQSLEEQQKLEGELEEEVEMAKRRIDEINKELNQV  
MEQLGDARIDRQESSRQQRKAEIMESIKRLYPGSVYGRLLDLCQPTQKKYQIAVTKVLGK  
NMDAIIVDSEKTRGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLRELKGAKLVIDVIRY  
EPPIKKALQYACGNALVCDNVEDARRIAFGGHRHKTVALDGTFLFQKSGVISGGASDLK  
AKARRWDEKAVDKLEKKERLTELKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLE  
QTKTRHLALNLQESKLESELANFGPRINDIKRIIQSREREMKDLKEKMNQVEDEVFEF  
CREIGVRNIREFEEEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEKNQLKEDQDKVHMWEQ  
TVKKDENEIEKLKKEEQRHMKIIDETMAQLDLKNQHLAKKSEVNDKNHEMEEIRKKLGG  
ANKEMTHLQKEVTAIETKLEQKRSRHNLLQACKMQDIKLPLSKGTMDDISQEEGSSQGE  
DSVSGSQRISSIIYAREALIEIDYGDLCEDLKDAQAEIEIKQEMNTLQQKLNEQQSVLQRI  
AAPNMKAMEKLESVRDKFQETSDEFEAARKRAKKAKQAFEQIKKERFDRFNACFESVATN  
IDEIYKALSRNSSAQFLGPENPEEPYLDGINYNVAPGKRFRPMDNLSGGEKTVAALAL  
LFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL  
IGVYPEQGDCVISKVLTFDLTKYPDANPNPNEQ

>sp|095347|SMC2\_HUMAN Structural maintenance of chromosomes protein 2 OS=Homo sapiens  
GN=SMC2 PE=1 SV=2

MHIKSIILEGFKSYAQRTEVNGFDPLFNAITGLNGSGKSNILDSICFLLGISNLSQVRAS  
NLQDLVYKNGQAGITKASVSITFDNSDKKQSPLGFEVHDEITVTRQVVIIGRNKYLINGV  
NANTRVQDLFCSVGLNVNPNHFLIMQGRITKVLNMPPEILSMIEEAAGTRMYEYKKA  
AQKTIEKKEAKLKEIKTILEEEITPTIQKLKEERSSYLEYQKVMREIEHLSRLYIAYQFL  
LAEDTKVRSAEELKEMQDKVIKLQEELSENDKKIKALNHEIEELEKRKDKETGGILRSLE  
DALAEAQRVNTKSQSAPDLKKKNLACEESKRKELEKNMVEDSKTLAAKEKEVKKITDGLH  
ALQEASNKDAEALAAQQHFNVAAGLSSNEDGAEATLAGQMMACKNDISKAQTEAKQAQ  
MKLKHAQQELKNQAEVKKMDSGYRKDQEALEAVKRLKEKLEAEMKKLNYEENKEESLLE  
KRRQLSRDIGRLKETYEALLARFPNLRFAKDPKNNWRNCVGLVASLISVKDTSATTA  
LELVAGERLYNVVDTEVTGKKLLERGELKRRYTIIPLNKISARCIAPETLRVAQNLVGP  
DNVHVALSLVEYKPELQKAMEFVFGTTFVCDNMDNAKKVAFDKRIMTRTVTLGGDVFDPH  
GTLSGGARSQAASILTKFQELKDVQDELRIKENELRALEELAGLKNTAEKYRQLKQWE  
MKTEEADLLQTKLQQSSYHKQEEELDALKKTIEESEETLKNTKEIQRKAEEKYEVLNKM  
KNAEAERERELKDAQKKLDCAKTKADASSKKMKEKQVEEAITLELEELKREHTSYKQQL  
EAVNEAISKSYESQIEVMAAEVAKNKESVNKAQEEVTKQKEVITAQDTVIAKAYA EVAHKH  
EQNNDSQLKIKELDHNIKSHKREAEDGAAKVSMLKDYDWINAERHLFGQPN SAYDFKTN  
NPKEAGQRLQKLQEMKEKLGRNVNMRAMNVLTEAEERYNDLMKKKRIVENDKSKILTTIE  
DLQKKNQALNIAWQKVNKDFGSIFSTLLPGANAMLAPPEGQTVLDGLEFKVALGNTWKE  
NLTELSGGQSRSLVALSLILSMLLFKPAPIYILDEVDAALDLSHTQNIGQMLRTHFTHSQF  
IVVSLKEGMFNANVLFKTKFVDGVSTVARFTQCQNGKISKEAKSKAPPKGAHVEV

>sp|Q8NBX0|SCPD\_L\_HUMAN Saccharopine dehydrogenase-like oxidoreductase OS=Homo sapiens  
GN=SCCPDH PE=1 SV=1

MATEQRPFHLVVFASGFTGQFVTEEVAREQVDPERSRLPWAVAGRSREKLQRVLEKAA  
LKLGRPTLSSEVGIIICDIANPASLDEMAKQATVVLNCVGPYRFYGEPIKACIENGASC  
IDISGEPQFLELMQLKYHEKAADKGVYIIGSSGFDSIPADLGVITYRNKMNGTLTAVESF  
LTIHSGPEGLSIHDGTWKSIAIYGFQDQSNLRKLRNVSNLKPVPLIGPKLKRRWPISYCRE  
LKGYSIPFMGSDVSVVRRTQRYLYENLEESPVQYAAVTVGGITSVIKLMFAGLFFLFFV  
RFGIGRQLLIKFPWFFSFGYFSKQGPTQKQIDAASFTLTFFGQGYSGGTGTDKNKPNIKI  
CTQVKGPEAGYVATPIAMVQAAMTLLSDASHLPKAGGVFTPGAFAFSKTKLIDRLNKHGIE  
FSVISSEV

>sp|Q9NQ36|SCUB2\_HUMAN Signal peptide, CUB and EGF-like domain-containing protein 2  
OS=Homo sapiens GN=SCUBE2 PE=2 SV=2

MGVAGRNRPGAAWAVLLLLLLPLLLLLAGAVPPGRGRAAGPQEDVDECAQGLDDCHADA  
LCQNTPTSYSKCSCKPGYQGEGRQCEDIDECGNELNGGCVHDCLNIPGNRYRCTCFDGFMLA  
HDGHNCLDVDECLENGGCQHTCVNMVMSYECCCKEGFFLSDNQHTCIHRSEEGLSCMNK  
DHGCSHICKEAPRGSVACECRPGFELAKNQDRCILTCNHGNGGCQHSCDDTADGPECSCH  
PQYKMHDTGRSCLEREDTVLEVTESNTTSVVDGDKRVKRRLLMETCAVNNGGCDRTCKDT  
STGVHCSCPVGFTLQLDGKTCKDIDECQTRNGGCDHFCKNIVGSFDCGCKKGFKLLTDEK  
SCQDVDECSLDRTCDHSCINHPGTAFACANRGYTLYGFTHCGDTNECSINNGGCQQVCVN  
TVGSYECQCHPGYKLHWNKKDCVEVKLLPTSVSPRVSLHCGKSGGGDGCFLRCHSGIHL  
SSDVTTIRTSVTFKLNEGKCSLKNAELFPEGLRPALPEKHSSVKESFRYVNLTCSSGKQV  
PGAPGRPSTPKEMFITVEFELETNQKEVTASCDLSCIVKRTEKRLRKAIRTLRKAVHREQ  
FHLQLSGMNLDAKKPRTSERQAESCGVGQGAENQCVSCRAGTYDYGARERCILCPNG  
TFQNEEGQMTCEPCPRPGNSGALKTPEAWNMSECGGLCQPGEYSADGFAPCHLCALGTFQ  
PEAGRTSCFPCGGGLATKHQATSFDQCETRVQCSPGHFYNTTTHRCIRCPVGTYQPEFG  
KNNCVSCPGNTTDFDGSTNITQCKNRRCGGELGDFTYIESPNYPGNYPANTECTWTIN  
PPPKRRILIVVPEIFLPIEDDCGYLVMRKTSSNSVTTYETCQTYERPIAFTSRSKKLW  
IQFKNESGNSARGFQVPYVYTYDEDYQELIEDIVRDGRLYASENHQEILKDKKLKALFDV  
LAHPQNYFKYTAQESREMFPRSFIRLLRSKVSRLRPYK

>sp|P21912|SDHB\_HUMAN Succinate dehydrogenase [ubiquinone] iron-sulfur subunit,  
mitochondrial OS=Homo sapiens GN=SDHB PE=1 SV=3

MAAVVALSLRRRLPATTLGGACLQASRGAQTAAATAPRIKKFAIYRWDPKAGDKPHMQT  
YEVDLNKCGPMVLDALIKIKNEVDSTLTFRRSREGICGSCAMNINGNTLACTRRIDTN  
LNKVSKIYPLPHMYVIKDLVPDLSNFYAQYKSIEPYLKKKDESQEGKQYQLSIEEREKL  
DGLYECILCACSTSCPSYWWNGDKYLGPAVLMQAYRWMIDSRDDFTEERLAKLQDPFSL  
YRCHTIMNCTRTPKGLNPGKAIKMMATYKEKKASV

>sp|A6NFY7|SDHF1\_HUMAN Succinate dehydrogenase assembly factor 1, mitochondrial OS=Homo  
sapiens GN=SDHAF1 PE=1 SV=1

MSRHSRLQRQVLSLYRDLLRAGRKGPGAEARVRAEFRQHAGLPRSDVLRIEYLYRRGRRQ  
LQLLRSGHATAMGAFVRPRAPTGEPPGGVGCQPDGDSPRNPHDSTGAPETRPDGR

>sp|Q9UBV2|SE1L1\_HUMAN Protein sel-1 homolog 1 OS=Homo sapiens GN=SEL1L PE=1 SV=3

MRVRIGLTLLLCAVLLSLASASSDEEGSQDESLSKTTLTSDSVKDHTTAGRVVAGQIF  
LDSESELESSIQEEEDSLKSQEGESVTEDISFLESPNPENKDYEEPKKVRKPALTAIEG  
TAHGEPCHFPFLFLDKEYDECTSDGRELGRLWCATTYDYKADEKWWGFCETEEAAKRRQM  
QEAEMMYQTGMKILNGSNKKSQKREAYRYLQKAASMNHTKALERVSYALLFGDYLPQNIQ  
AAREMFELKTEEGSPKGQTALGFLYASGLGVNSSQAKALVYYTFGALGGNLI AHMVLGYR

YWAGIGVLQSCESALTHYRLVANHVASDISLTGGSVVQRIRLPDEVENPGMNSGMLEEDL  
IQYYQFLAEKGDVQAQVGLGQLHLHGGRGVEQNHQRAFDYFNLAANAGNSHAMAF LGKMY  
SEGSDIVPQSNETALHYFKKAADMGNPVGQSGLGMAVLYGRGVQVNYDLALKYFQKAAEQ  
GWVDGQLQLGSMYYNGIGVKRDYKQALKYFNLASQGGHILAFYNLAQMHASGTGVMRSCH  
TAVELFKNVCERGRWSERLMTAYNSYKGDYNAAVIQYLLLAEEQGYEVAQSNAAFILDQR  
EASIVGENETYPRALLHWNRAASQGYTVARIKLG DYHFYGF GTD VDYETA F IHYRLASEQ  
QHSAQAMFNLGYMHEKGLG IKQDIHLAKRFYDMAAEASPD AQVPVFLALCKLG VVYFLQY  
IRETNIRDMFTQLDMDQLLGPEWDL YLMTI IALLLGTVIAYRQRQH QDMPAPRPPGPRPA  
PPQQEGPPEQQPPQ

>sp|Q99442|SEC62\_HUMAN Translocation protein SEC62 OS=Homo sapiens GN=SEC62 PE=1 SV=1

MAERRRHKKRIQEVGEPSKEEKAVAKYLRFNCPKSTNMMGHRVDYFIASKAVDCLLDSK  
WAKAKKGEEALFTTRESVVDYCNRLKKQFFHRALKVMKMKYDKDIKKEKDKGAESGKE  
EDKSKKENIKDEKTKKEKEKKKDGEEESKKEETPGTPKKKETKKKFKLEPHDDQVFLD  
GNEVYVWIYDPVHFKTFVMGLILVIAVIAATLFP L WPAEMRVGVYYLSVGAGCFVASILL  
LAVARCILFLI IWLITGGRHHFWFLPNLTADVGFIDSFRLYTHEYKGPADLKKDEKSE  
TKKQKSDSEEKSDSEKKEDEEGKVGPGNHGTEGSGGERHSDTSDSRREDDRSQHSSGNG  
NDFEMITKEELEQQTDGDCEDEEEENDGETPKSSHEKS

>sp|P09683|SECR\_HUMAN Secretin OS=Homo sapiens GN=SCT PE=1 SV=2

MAPRPLLLLLLLGGSAARPAPPRARRHSDGFTTSELSRLREGARLQRLQLGLVGRSEQ  
DAENSMAWTRLSAGLLCPSGSNMPILQAWMPLDGTWSPWLPPGPMVSEPAGAAAEGTLRP  
R

>sp|A8MV23|SERP3\_HUMAN Serpin E3 OS=Homo sapiens GN=SERPINE3 PE=2 SV=2

MPPFLITLFLFHSCCLRANGHLREGMTLLKTEFALHLYQSVAAACRNETNFVISPAGVSLP  
LEILQFGAEGSTGQQLADALGYTVHDKRVKDFLHAVYATLPTSSQGTEMELACSLFVQVG  
TPLSPCFVEHVSWWANSLEPADLSEPNSTAIQTSEGASRETAGGPGSEGGWPWEQVS  
AAFAQLVLVSTMSFQGTWRKRFSSTDTQILPFTCAYGLVLQVPMHQTTTEVNYGQFQDTA  
GHQVGVLLEPYLGSVSLFLVLPRDKDTPLSHIEPHLTASTIHLWTTSLRRARMDFLPR  
FRIQNQFNLSILNSWGVTDLFDPLKANLKGISGQDGFYVSEAIHKAKIEVLEEGTKASG  
ATALLLKRSRIPIFKADRPFIYFLREPNTGITVFFDRIQIIYQCLSSNKG SFVHYPLKN  
KHSF

>sp|P50454|SERPH\_HUMAN Serpin H1 OS=Homo sapiens GN=SERPINH1 PE=1 SV=2

MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFSLYQAMAK  
DQAVENILVSPVVVASSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGELLRSLSN  
STARNVTWKLGSRLYGPSSVSFADDFVRSSKQHYNCEHSKINFRDKRSALQSINEWAAQT  
TDGKLPEVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGMVTRSYTVGVMMMHRT  
GLYNYDDKEKQLIIVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKIWMGKMQKK  
AVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFELD  
TDGNPFDQDIYGREELRSPKLFYADHPFI FLVRDTQSGSLLFIGRLVRPKGDKMRDEL

>sp|P21815|SIAL\_HUMAN Bone sialoprotein 2 OS=Homo sapiens GN=IBSP PE=1 SV=4

MKTALILLSILGMACAFSMKNLHRRVKIEDSEENGVFKYRPRYYLYKHAYFYPHLKRFPV  
QGSSDSSEENGDDSEEEEEEEETSNEGENNEESNEDEDESEAENTTSLATTLGYGEDATP  
GTGYTGLAAIQLPKKAGDITNKATKEKESDEEEEEEEGNENESEAEVDENEQGINCTS  
TNSTEAENGNGSSGDNGEEGEEESVTGANAEDTTETGRQKGKTSKTTTSPNGGFEPTTP  
PQVYRTTSPPFGKTTTVEYEGEYEYTGANEYDNGYEIYESENGEPRGDNYRAYEDEYSYF

KGQGYDGYDGQNYHHQ

>sp|Q96QK8|SIM14\_HUMAN Small integral membrane protein 14 OS=Homo sapiens GN=SMIM14 PE=1 SV=1

MAEGGFDPCECVCSHEHAMRRLINLLRQSQSYCTDTECLQELPGPSGDNGISVTMILVAW  
MVIALILFLLRPPNLRGSSLP GKPTSPHNGQDPPAPPVD

>sp|Q9UIU6|SIX4\_HUMAN Homeobox protein SIX4 OS=Homo sapiens GN=SIX4 PE=1 SV=2

MSSSSPTGQIASAADIKQENGMEASSEGQEAHREVAGGAAVGLSPPAPAPFPLEPGDAAT  
AAARVSGEEGAVAAAAAGAAADQVLHSELLGRHHHAAAAAAQTPLAFSPDHVACVCEAL  
QQGGNLDRLARFLWSLPQSDLLRGNESLLKARALVAFHQGIPELYSILESHSFESANHP  
LLQQLWYKARYTEAERARGRPLGAVDKYRLRRKFPLPRTIWDGEETVYCFKEKSRNALKE  
LYKQNRYPSPAERHLAKITGLSLTQVSNWFKNRRQRDRNPSETQSKSESDGNPSTEDES  
SKGHEDLSPHPLSSSSDGITNLSLSSHMEPVYMQIGNAKISLSSSGVLLNGSLVPASTS  
PVFLNGNSFIQGPSGVILNGLNVGNTQAVALNPPKMSSNIVSNGISMTDILGSTSQDVKE  
FKVLQSSANSATTTSYSPSPVPVFPGLIPSTEVKREGIQTVASQDGGSVVTFFTPVQINQ  
YGIVQIPNSGANSQFLNGSIGFSPLQLPPVSVAAASQGNISVSSSTSDGSTFTSESTTVQQ  
GKVFLSSLAPSAVVYTPNTGQTIGSVKQEGLESLVFSQLMPVNQNAQVNANLSSNIS  
GSGLHPLASSLVNVSPTHNFSLSPTLLNPTELNRDIADSQPMSAPVASKSTVTSVSNTN  
YATLQNCSLITGQDLLSVPMTQAALGEIVPTAEDQVGHPSPAVHQDFVQEHRLVLQSVAN  
MKENFLSNSSEKATSSLMMLDSKSKYVLDGMVDTVCEDETDKKELAKLQTVQLDEDMQD  
L

>sp|Q5T5P2|SKT\_HUMAN Sickle tail protein homolog OS=Homo sapiens GN=KIAA1217 PE=1 SV=2

MEENESQKCEPCLPYSADRRQMQEQGKGNLHVTSPEDAECRRTERKLSNGNSRGSVSKSS  
RNIPRRHTLGGRSSKEILGMQTMSEMDRKREAFLEHLKQKYPHHAIAIMGHQERLRDQTR  
SPKLSHSPQPPSLGDPVEHLSETSADSLEAMSEGDAPTPFSRGSRTASLPVVRSTNQTK  
ERSLGLVLYLQYGDETKQLRMPNEITSADTIRALFVSAPFQQLTMKMLESPSVAIYIKDES  
RNVYYELNDVRNIQDRSLKVYNKDPAHAFNHTPKTMNGDMRMQREL VYARGDGP GAPRP  
GSTAHPPHAIPNSPPSTPVPHSMPPSPSRIPYGGTRSMVVPGNATIPRDRISSLPVSRPI  
SPSPSAILERRDVKPDEDMSGKNIAMYRNEGFYADPYLYHEGRMSIASSHGGHPLDVPDH  
IIAYHRTAIRSASAYCNPSMQAEMHMEQSLYRQKSRKYPDSHLPTLGSKTPPASPHRVSD  
LRMIDMHAHYNAHGPPHTMQPDRASPSRQAFKKEPGTLVYIEKPRSAAGLSSLVDLGPPL  
MEKQVFAYSTATIPKDRETRERMQAMEKQIASLTGLVQSALFKGPITSYSKDASSEKMMK  
TTANRNHTDSAGTPHVSGGKMLSALSTVPPSQPPVPVGTSAIHMSLLEMRRSVAELRLQL  
QQMRQLQLQNQELLRAMMKKAELEISGKVMETMKRLEDPVQRQVLEQERQKYLHEEEK  
IVKKLCELEDVFEDLKKDSTAASRLVTLKDVEDGAFLLRQVGEAVATLKGEPFRTLQNKMR  
AILRIEVEAVRFLKEEPHKLDSLLKRVRSMTDVL TMLRRHVT DGLLKGTDAAQAAQYMAM  
EKATAAEVLKSQEEAAHTSGQPFHSTGAPGDAKSEVVPLSGMMVRHAQSSPVVIQPSQHS  
VALLNPAQNLPHVASSPAVPQEATSTLQMSQAPQSPQIPMNGSAMQSLFIEEIHVS AKN  
RAVSIKAEKKWEEKRQNL DHYNGKEFEKLEEAQANIMKSIPNLEMP PATGPLPRGDAP  
VDKVELSEDSPNSEQDLEKLGGKSPPPPPPPRRSYLPGSGLTTTRSGDVVYTGRKENIT  
AKASSEDAGPSPQTRATKYP AEPPASAWTPSPPPVTTSSSKDEEEEEEGDKIMAE LQAF  
QKCSFMDVNSNSHAEPSRADSHVKDTRSGATVPPKEKKNLEFFHEDVRKSDVEYENG PQM  
EFQKVTGAVRPSDPPKWERGMENSISDASRTSEYKTEIIMKENSISNMSLLRDSR NYSQ  
ETVPKASF GFGSISPLEDEINKGSKI SGLQYSIPDTENQTLNYGKT KEMEKQNTDKCHVS  
SHTRLTESSVHDFKTEDQEVIT TDFGQVVL RPKEARHANVNP NEDGESSSSSPTEENAAT

DNIAFMITETTVQVLSSGEVHDIVSQKGEDIQTVNIDARKEMTPRQEGTDNEDPVVCLDK  
KPVIIIFDEPMDIRSAYKRLSTIFEECDEELERMMMEKIEEEEEENGDSVVQNNNTSQ  
MSHKKVAPGNLRTGQQVETKSQPHSLATETRNPGGQEMNRTELNKFSHVDSPNSECKGED  
ATDDQFESPKKKFKFKPKKQLAALTQAIRTGKTGKKTQVVVYEEEEEDGTLKQHKEA  
KRFEIARSQPEDTPENTVRRQEQPSIESTSPISRTDEIRKNTYRTLDSLEQTIKQLENTI  
SEMSPKALVDTSCSSNRDSVASSSHIAQEASPRPLLVPDEGPTALEPPTSIPSASRKGSS  
GAPQTSRMPVPMsAKNRPGTLDKPGKQSKLQDPRQYRQANGSAKKS GDFKPTSPSLPAS  
KIPALSPSSGKSSSLPSSSGDSSNLNPPATKPSIASNPLSPQTGPPAHSASLIPSVSNG  
SLKFQSLTHTGKGHLSFSFQSQNGRAPPLSFSSPPSPASSVSLNQGAKGTRTIHTPS  
LTSYKAQNGSSSKATPSTAKETS

>sp|P48764|SL9A3\_HUMAN Sodium/hydrogen exchanger 3 OS=Homo sapiens GN=SLC9A3 PE=1 SV=2

MWGLGARGPDRGLLLALALGLARAGGVEVEPGGAHGEGGFQVVTFEWAHVQDPYVIAL  
WILVASLAKIGFHLSHKVTSVVPESALLIVLGLVLGGIVWAADHIASFTLTPTVFFFYLL  
PPIVLDAGYFMPNRLFFGNLGTILLYAVVGTWNAATTGLSLYGVFLSGLMGLQIGLLD  
FLLFGSLMAAVDPVAVLAVFEEVHVNEVLFIIIVFGESLLNDAVTVVLYNVFESFVALGGD  
NVTGVDCVKGIVSFFVVS LGGTLVG VVFAFLLSLVTRFTKHVRIIEPGFVFIIISYLSYLT  
SEMLSLSAILAITFCGICCKYKANKANISEQSATTVRYTMKMLASSAETIIFMFLGISAVN  
PFIWTWNTAFVLLTLVFIISVYRAIGVVLQTWLLNRYRMVQLEPIDQVVLSYGGLRGAVAF  
ALVVLLDGDVKKEKNLFVSTTIIIVVFTVIFQGLTIKPLVQWLKVKRSEHREPRLENEKLH  
GRAFDHILSAIEDISGQIGHNYLRDKWSHFDRKFSLRVLMRSAQKSRDRILNVFHELNL  
KDAISYVAEGERRGSLAFIRSPSTDNVVNVDFTPRSSTVEASVSYLLRENVSAVCLDMQS  
LEQRRRSIRDAEDMVTHHTLQQYLYKPRQYKHLYSRHELTPTDEKQDREIFHRTMRKR  
LESFKSTKLGLNQNKAAKLYKRERAQKRRNSSIPNGKLPMESPAQNFTIKEKDLELSDT  
EPPNYDEEMSGGIEFLASVTKDTASDSPAGIDNPVFSPEALDRSLLARLPPWLSPET  
VVPSQRARTQIPYSPGTFCLMPFRLSSKSVDSFLQADGPEERPPAALPESTHM

>sp|Q14940|SL9A5\_HUMAN Sodium/hydrogen exchanger 5 OS=Homo sapiens GN=SLC9A5 PE=1 SV=2

MLRAALSLLALPLAGAAEPTQKPESPGEPPLGLELFRWQWHEVEAPYLVALWILVASLA  
KIVFHLSRKVTSLVPESCLLILLGLVLGGIVLAVAKKAEYQLEPGTFFLFLPPIVLD SG  
YFMPSRLFFDNLGAILTYAVVGTWNAFTTGAALWGLQQAGLVAPRVQAGLLDFLLFGSL  
ISAVDPVAVLAVFEEVHVNETLFIIVFGESLLNDAVTVVLYKVCNSFVEMGSANVQATDY  
LKGVASLFFVSLGGAAGLVFAFLLALTTRFTKRVRIIEPLLVLFLAYAYLTAEMASLS  
AILAVTMCGLGCKKYVEANISHKSRTTVKYTMKTLASCAETVIFMLLGISAVDSSKAWD  
SGLVLGTLIFILFFRALGVVLQTVVNLQFRLVPLDKIDQVVMsYGGLRGAVAFALVILLD  
RTKVPADKYFVATTIVVVFTVIVQGLTIKPLVKWLKVKRSEHHKPTLNQELHEHTFDHI  
LAAVEDVVGHHGYHYWRDRWEQFDKKYLSQLLMRRSAYRIRDQIWDVYYRLNIRDAISFV  
DQGGHVLSSSTGLTLPSMPSRNSVAETSVTNLLRESGSGACLDLQVIDTVRSGRDREDAVM  
HHLLCGGLYKPRRRYKASCSRHFISEDAQERQDKEVFQQNMKRRLESFKSTKHNICFTKS  
KPRPRKTGRKKDGVANAEATNGKHRGLGFQDTAAVILTVESEEEEEESDSSETEKEDDE  
GIIIFARATSEVLQEGKVSGSLEVCPSPRIIPPSPTCAEKELPWKSGQGD LAVYVSSETT  
KIVPDMQTGWNQSISSLESLASPPCNQAPILTCLPPHPRGTEEPQVPLHLPSDPRSSFA  
FPPSLAKAGRSRSESSADLPQQQELQPLMGHKDHTHLSPGTATSHWCIQFNRSRL

>sp|Q92581|SL9A6\_HUMAN Sodium/hydrogen exchanger 6 OS=Homo sapiens GN=SLC9A6 PE=1 SV=2

MARRGWRRAPLRGVSSPRARRLMRPLWLLAVGVFDWAGASDGGGGEARAMDEEIVSE  
KQAEESHQRQDSANLLIFILLTLTILTIWLFKHRRARFLHETGLAMIYGLLVGLVLR YGI

HVPSDVNNVTLSCVEQSSPTLLVTFDPEVFFNILLPPIIFYAGYSLKRRHFFRNLSIL  
AYAF LGTAISCFVIGSIMYGCVTLMKVTGQLAGDFYFTDCLLFGAIVSATDPVTVLAIFH  
ELQVDVELYALLFGESVLNDAVAIVLSSSIVAYQPAGDNSHTFDVTAMFKSIGIFLGIFS  
GSFAMGAATGVVTALVTKFTKLREFQLLETGLFFLMSWSTFLLAEWGFTGVVAVLFCGI  
TQAHYTYNNLSTESQHRTKQLFELLNFLAENFIFS YMGLTLFTFQNHVFNPTFVVGAFVA  
IFLGRAANIYPLSLLNLGRRSKIGSNFQHMMMFAGLRGAMAFALAIRDTATYARQMMFS  
TTLLIVFFT VVWVFGGGTTAMLSCLHIRVGVDSDQEH LGVPENERRTTKAESAWLFRMWYN  
FDHNYLKPLLTHSGPPLTTTL PACCGPIARCLTSPQAYENQEQLKDDSDILNDGDISL  
TYGDSTVNTEPATSSAPRRFMGNSSEDALDRELAFGDHEL VIRGTRLVLPMDSEPPLNL  
LDNTRHGPA

>sp|Q8IVB4|SL9A9\_HUMAN Sodium/hydrogen exchanger 9 OS=Homo sapiens GN=SLC9A9 PE=1 SV=1  
MERQSRVMSEKDEYQFQHQGAVELLVFNLLILTLTIWL FKNHRFRFLHETGGAMVYGL  
IMGLILRYATAPTDIESGT VYDCVKLTFSPSTLLVNITDQVY EYKYKREISQHNINPHQG  
NAILEKMTFDPEIFFNVLLPPIIFHAGYSLKRRHFFQNLGSILTYAF LGTAISCIVIGLI  
MYGFVKAMIHAGQLKNGDFHFTDCLFFGSLMSATDPVTVLAIFHELHVPDLYTLLFGES  
VLNDAVAIVLTYSISIYSPKENPNAFDAAFFQSVGNFLGIFAGSFAMGSAYAIITALLT  
KFTKLCEFPMLETGLFFLLSWSAFLSAEAAGLTGIVAVLFCGVTQAHYTYNNLSSDSKIR  
TKQLFEFMNFLAENVIFCYMGLALFTFQNHIFNALFILGAFLAIFVARACNIYPLSFLN  
LGRKQKIPWNFQHMMMFSGLRGAIAFALAIRNTESQPKQMMFTTTLLLVFFT VVWVFGGGT  
TPMLTWLQIRVGVDLDENLKEDPSSQHQEANNLDKNMTKAESARLFRMWYSFDHKYLKPI  
LTHSGPPLTTTLPEWCGPISRLLTSPQAYGEQLKEDDVEICVNQDELAINYQEQAASSPCS  
PPARLGLDQKASPQTPGKENIYEGDLGLGGYELKLEQTLGQS QLN

>sp|Q5TAH2|SL9C2\_HUMAN Sodium/hydrogen exchanger 11 OS=Homo sapiens GN=SLC9C2 PE=2 SV=1  
MSSYFWAQNESNRPDLLCGQPADYLVEEKHFTTLVCFIVVLGGLLMCLKNCEVIVLTIL  
SLSGFVIGHMAYNSVEVHQIVYPLLRTSSFSLSYFSPLIIFMVALDVEFYTLKKMFVQV  
LLTGLISFSTASIIIGYVVIKFNKDSWDLQSCLLFSITLGIIDPLRSVNSLKTIGISKIY  
IDLIRGESLIICSIA SIFFGNFRGNRIHFSIFRDLHVGI ELSYDILGSIIFGYWCAKIIQ  
CILADVFSNMLTNIILCFSMVYMTFYIVEFLGMSGTLALAAVGLNLD SLTFKPKIELVIT  
KFLRIFSSVYEHLIYAFFGIVIGGELSHYEFHTIPFIFILFTTVNLVRLLTILLVSPIL  
MHSNYEYNWRWGVVITWSGIKGVFNLLWAPDVYNLAERKVEVPQMFILYVQVISLLTMGI  
NSYVMTQSARKLDLCVLSLPRQMILQ NATQHIQEIVQNTITL FKTEKILTNVNWTLVEDK  
TRIEYIPFSHVSHNDMKTESTTDEALMEEARLHVAAIQMSSF EKQRNNGILEIEAARILI  
GAAKCYYSIQGKFMSIYDVSTYMRTRSWLIKFNVLTFLEYCIEKIHFI PPESNTFLTFI  
FHIVFSEEF EYTGQIINLIYIYPMI IHLWPMARGLNVSALISINYFMFLYVLESTLKII  
ILKRKYFQQCWNTLEFFILVIGIIDIFCVYFVKLRPDNLALIQLTVIMGYLRIRFLPLF  
KIIVPILIRIADVQIKRSLMYSITKGYIKSQEDAKLLIKQI AVCESIYQKLCEIETN  
KQDAVKELVLMHEGRDVVIALKTKQAIRNVI AKALKNLTFLCSRGIIDKHEVIEINKVL  
LKKLKALNNFPKAI PPPTPDIIYLHNI IWLEGKDVLI DFFKERAKLACFDSGDTICKGGEM  
PQGIYLIISGMAILHSLSPTFGIESNQRCDRGSRDMFTEFCTTGDIIGELSCLLKREIEY  
TVICETSLQACFISLEDLYEGFDAFWPSLEYKIWLKLALSTAYQYFESSLIDEDLRFQNC  
VMFNQAYVETLSSYSDMIIDNMTMKFVIIVYGSVIDTKTEEPYFAPCI IPTTCEVQVQGS  
DLSKLLIIQASELTQRNSNTNVMASVNTVFEQPGKNINGRQKMS

>sp|Q9BQI6|SLF1\_HUMAN SMC5-SMC6 complex localization factor protein 1 OS=Homo sapiens  
GN=SLF1 PE=1 SV=2

MEDGTPKHIIQMTGFKMEEKEALVLLLLKLDCTFIKSEKYKNCTHLIAERLCKSEKFLAA  
CAAGKWILTKDYIIHSAKSGRWLDETTYEWGYKIEKDSRYSPQMQSAPKRWREELKRTGA  
PGAFHRWKVVLLVRTDKRSDSLRVLEAGKANVILPKSSPSGITHVIASNARIKAEKEKD  
NFKAPFYPIQYLGDFLLEKEIQNDEDSQTNSVWTEHSNEETNKDFRKDAGFLEMKGALRE  
TMYRTQKEMQNHEDVNVGSILIQHHKKEKFGSSSKDLKFVKMRNTFGSHTYENQKEIKKK  
DEDIQRSYTLRRKRKKGKESNCKKGVEHEKIKSTLRRHIYNRDQKEMKNSIFAAYAKESK  
AMAIKTDVDVVEIKNTLRKHIYRAQAVRYNCIRIDKQPVYNEVKNAEFPRGVLNLIESL  
IEGHFFKEAIEELSTLQAHYIPVVCVLHALLENVLQDNIDTFSGRYFHILSALLHLHPPW  
KSPAMSRYYLELFQCPTCMKGAWSLVEVLIRSCLFNESFCHQISENIGSKVLHLTLKKFF  
FNLIESEVQHLSQKLYDWSDSQNLKITGKAMLEIFWGSGETSGLLTKPVNMLEWTIYS  
HKEKFKSNDVFKHELAYLLAGILGAAIDYWIFLGLKMGRNVMRHMSDDLGSYVSLSCDDF  
SSQELEIFICSFSSSWLQMFVAEAVFKKLCLQSSGSVSSEPLSLQKMVYSYLPALGKTGV  
LGSGKIQVSKKIGQRPCFDSQRTLLMLNGTKQKQVEGLPELDDLNLAKCSSSLKKLKKKS  
EGELSCSKENCPSVVKMNFHKTNLKGETALHRACINNQEKLILLLSLPGIDINVKDNA  
GWTPLHEACNYGNTVCVQEILQRCPEVDLLTQVDGVTPLHDALSNGHVEIGKLLLQHGGP  
VLLQQRNAKGELPLDYVVSPIKEELFAITKIEDTVENFHAQAEKHFHYQQLEFGSFLLS  
RMLLNFCSIFDLSSEFILASKGLTHLNELLMACKSHKETTSVHTDWLLDLYAGNIKTLQK  
LPHILKELPENLKVCPGVHTEALMITLEMMCRSVMEFS

>sp|POC7P3|SLN14\_HUMAN Protein SLFN14 OS=Homo sapiens GN=SLFN14 PE=1 SV=2

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KAEIDDKTYSYQCHGLGQDLETSFQKLLPSGSQKYLDYMQQGHNLLIFVKSWSPDVFSLP  
LRICSLRSNLYRRDVTSAINLSASSALELLREKGFRAQRGRPRVKKLHPQQVLNRCIQEE  
EDMRILASEFFKKDKLMYKEKLNFTESTHVEFKRFTTKVIPRIKEMPLPHYVSAFANTQG  
GYVLIGVDDKSKEVVGCKWEKVNPDLLKKEIENCIEKLPTFHFCCEKPKVNFTTKILNVY  
QKDVLDDGYVCVIQVEPFCCVFAEAPDSWIMKDNSVTRLTAEQWVVMMLDTSAPPSLVT  
DYNCLISSASSARKSPGYPIKVHKFKEALQRHLFPVTQEEVQFKPESLCKKLFSDHKEL  
EGLMKTLIHPCSQGIVIFSRWAGDVGRKEQNVLCDALLIAVNSPVVLYTILIDPNWPG  
GLEYARNTAHQLKQLQTVGGYTGKVCIIIPRLIHLSSSTQSRPGEIPLRYPRSYRLADEEE  
MEDLLQALVVVSLSSRSLSDQMGEFFNLLIMEQSQLLSESLQKTRELFYICFPGVRKT  
ALAIKIMEKIKDLFHCKPKEILYVCESDSLKDFVTQQTTCQAVTRKTFMQGEFLKIKHIV  
MDETENFCSKYGNWYMAKKNITHPKAKGTGSENHHGILWFLDPFQIHHADVNGLPPPS  
AQFPRKTTITSGIHCALEIAKVMKEEMKRIKENPPSNMSPDTLALFSETAYEEATCAQALP  
GVCETKTNLTTEQIANVYARKCHSLFQCGYLPKDIAILCRRGEDRGRYRLALLKAMELIE  
THRPSEVVFPATGVWGSIVLDLSIQQFSGLERTVVFGLSPECDQSEEFHKLCFASRAIK  
HLYLLYEKRAAY

>sp|P03973|SLPI\_HUMAN Antileukoproteinase OS=Homo sapiens GN=SLPI PE=1 SV=2

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPPKKSAQCLRYKKPECQSDWQCPGK  
KRCCPDTCGICKLDPVDTNPTRRKPGKCPVTYQGCLMLNPPNFCEMDGQCKRDLKCCMG  
MCGKSCVSPVKA

>sp|Q9NWH9|SLTM\_HUMAN SAFB-like transcription modulator OS=Homo sapiens GN=SLTM PE=1 SV=2

MAAATGAVAASAASGQAEKKITDLRVIDLKSELKRRNLDITGVKTVLISRLKQAIEEEG  
GDPDNIELTVSTDTPNKKPTKGKGKKHEADELSGDASVEDDAFIKDCELENQEAHEQDGN  
DELKDSEEFGENEEENVHSELLSAEENKRAHELIEAEGIEDIEKEDIESQEIEAQEGED  
DTFLTAQDGEENEENEKDIAGSGDGTQEVSKPLPSEGLAEADHTAHEEMEAHTTVKEAED



DNISVTIQAEDAITLDFDGDLLLETGKNVKITDSEASKPKDGQDAIAQSPEKESKDYEMN  
ANHKGKKEDCVKGPVEKEARESSKKAESGDKEKDTLKKGPSSTGASGQAKSSSKESKD  
SKTSSKDDKGSTSSSTSGSSGSSTKNIWVSGLSSNTKAADLKNLFGKYGKVLAKVVTNAR  
SPGAKCYGIVTMSSSTEVSRCIAHLRTELHGQLISVEKVKGDPSKKEMKKENDEKSSSR  
SSGDKKNTSDRSSKTQASVKKEEKRSEKSEKKESKDTKKIEGKDEKNDNGASGQTSESI  
KKSEEKKRISSKSPGHMVILDQTKGDHCRPSRRGRYEKIHGRSKEKERASLDKKRDKDYR  
RKEILPFEKMKEQRLREHLVRFERLRRAMELRRRREIAERERRERERIRIREREERERL  
QRERERLEIERQKLEREMERERLERERIRIEQERRKEAERTAREEREELRRQQQLRYEQ  
EKRNSLKRPRDVEDHRRDDPYWSENKKLSLDTDARFGHGS DYSRQQNRFNDFHRERGRFP  
ESSAVQSSSFERRDRFVGQSEGKKARPTARREDPSFERYPKNFSDSRNEPPPPRNELRE  
SDRREVRGERDERTVIIDHDPDITHPRHPREAGPNPSRPTSWKSEGSMTDKRETRVER  
PERSGREVS GHSVRGAPPGNRSSASGYGSREGDRGVITDRGGGSQHYPEERHVVVERHGRD  
TSGPRKEWHGPPSQGPSYHDTRRMGDGRAGAGMITQHSSNASPINRIVQISGNSMPRGSG  
SGFKPFGKGP PRRF

>sp|A2RU48|SMCO3\_HUMAN Single-pass membrane and coiled-coil domain-containing protein 3  
OS=Homo sapiens GN=SMCO3 PE=1 SV=1

MAQSDFLYPENPKRREEVNRLHQQLDCLSDSFVTNKLTEVLNMHLGCRLASIEMKRDG  
TIKENCDLIIQAIMKIQKELQKVDEALKDKLEPTLYRKLQDIKEKETDKIAIVQKVISVI  
LGEATSAAASAVAVKLVGSNVTGTIINKLVTVLAQIGASLLGSIGVAVLGLGIDMIVRAIL  
GAVEKTQLQAAIKSYEKHLVEFKSASEKYNHAITEVINTVKHQMKG

>sp|Q8TEV8|SMCR5\_HUMAN Smith-Magenis syndrome chromosomal region candidate gene 5 protein  
OS=Homo sapiens GN=SMCR5 PE=2 SV=1

MRRCLRVKTRRGQLGLASSCFEQHSCFSPRVNRILSAVQNTLCTGPSSQAPPQPPQASPP  
AAADHSRTPSLLASSHSASGGESLFQLYIASLAWPQNCCVLESCRRIPGLGLSSMENRRP  
LLRKGRLLRGQIHHSQTNEL

>sp|P62314|SMD1\_HUMAN Small nuclear ribonucleoprotein Sm D1 OS=Homo sapiens GN=SNRPD1  
PE=1 SV=1

MKLVRFLMKLSHETVTIELKNGTQVHGTITGVDVSMNTHLKAVKMTLKNREPVQLETLSI  
RGNNIRYFILPDSLPLDTLLVDVEPKVSKKREAVAGRGRGRGRGRGRGRGRGGPRR

>sp|P62318|SMD3\_HUMAN Small nuclear ribonucleoprotein Sm D3 OS=Homo sapiens GN=SNRPD3  
PE=1 SV=1

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQ  
VYIRGSKIRFLILPDMLKNAPMLKSMKNKNQGSAGRGKAAILKAQVAARGRGRGMGRGN  
IFQKRR

>sp|Q9UPR3|SMG5\_HUMAN Protein SMG5 OS=Homo sapiens GN=SMG5 PE=1 SV=3

MSQGPPTGESSEPEAKVLHTKRLYRAVVEAVHRLDLILCNKTAYQEVFKPENISLRNKL  
ELCVKLMFLHPVDYGRKAEELLWRKVYYEVIQLIKTNKKIHSRSTLECAYRTHLVAGIG  
FYQHLLLYIQSHYQLELQCCIDWTHVTDPLIGCKKPVASGKEMDWAQMACHRCLVYLGD  
LSRYQNELAGVDTELLAERFYYQALSVA PQIGMPFNQLGTLAGSKYYNVEAMYCYLRCTQ  
SEVSFEGAYGNLKRLYDKAAKMYHQLKKCETRKLSPGKKRCKDIKRLLVNFMYLQSLLQP  
KSSSVDSELTSQCQSVLEDFNLCLFYLPSSPNLSLASEDEEEYESGYAFLPDLLIFQMVI  
ICLMCVHSLERAGSKQYSAAIAFTLALFSLVNHVNIRLQAELEEGENPVPAFQSDGTDE  
PESKEPVEKEEPPDEPPPPVTPQVGEGRKSRKFSRLSCLRRRRHPPKVGDDSDLSEGFES  
DSSHDSARASEGSDSGSKSLEGGGTAFDAETDSEMNSQESRSDLEDMEEEEGTRSP TLE

PPRGRSEAPDSLNGPLGPSEASIASNLQAMSTQMFQTKRCFRLAPTFSNLLLQPTTNPHT  
SASHRPCVNGDVKPSEPASEEGSESESGRESSCRNERSIQEKLQVLMAGLLPAVKV  
FLDWLRTNPDLIIVCAQSSQSLWNRLSVLLNLLPAAGELQESGLALCPEVQDLLEGCELP  
DLPSLLLLPEDMALRNLPLRAAHRRFNFDTRPLLSTLEESVVRICCI RSFGHF IARLQ  
GSILQFNPEVGIFVSI AQSEQESLLQQAQAFRMAQEEARRNRLMRDMAQLRLQLEVSQ  
EGSLQQPKAQSAMSPYLVPDTQALCHHLPVIRQLATSGRFIVIIIPRTVIDGLDLLKKEHP  
GARDGIRYLEAEFFKGNRYIRCQKEVGKSFERHKLKRQDADAWTLYKILDSCKQLTLAQG  
AGEEDPSGMVTIITGLPLDNPSVLSGPMQAALQAAAHASVDIKNVLDFYKQWKEIG

>sp|Q9H4B6|SAV1\_HUMAN Protein salvador homolog 1 OS=Homo sapiens GN=SAV1 PE=1 SV=2

MLSRKKTNEVSKPAEVQGKYVKETSPLLRNLMPSFIRHGPTIPRRTDICLPDSSPNAF  
STSGDVVSRNQSFRLTPIQRTPEIMRRESNRLSAPSYLARSLADVPREYGSSQSFVTEV  
SFAVENGDSGSRYYYSDNFFDQGRKRPLGDRAHEDYRYEYNHDLFQRMPQNQGRHASGI  
GRVAATSLGNLTNHGSEDLPLPGWSVDWTMRGRKYYIDHNTNTTHWSHPLEREGLPPGW  
ERVESSEFGTYYYVDHTNKAQYRHPCAPSVPRYDQPPPVTYQPQQTERNQSLLVPANPYH  
TAEIPDWLQVYARAPVKYDHILKWELFQLADLDTYQGMLKLLFMKELEQIVKMYEAYRQA  
LLTELENRKQRQQWYAQQHGKNF

>sp|POC263|SBK2\_HUMAN Serine/threonine-protein kinase SBK2 OS=Homo sapiens GN=SBK2 PE=3 SV=2

MPGKQSEEGPAEAGASEDSEEEGLGGLTLEELQQGQEAARALEDMMTL SAQTLVRAEVDE  
LYEEVRPLGQGCYGRVLLVTHRQKGTPLALKQLPKPRTSLRGFLYFCVGLSLGAHSAIV  
TAYGIGIESAHSYSFLETPVLHGDLMAFIQPKVGLPQPAVHRCAAQLASALEYIHARGLV  
YRDLKPENVLVCDPACRRFKLTDFGHTRPRGTLLRLAGPPIPYTAPELCAPPPLPEGLPI  
QPALDAWALGVLLFCLLTGYFPWDRPLAEADPFYEDFLIWQASGQPRDRPQPWFGLAAAA  
DALLRGLLDPHPRRRSAVIAIREHLGRPWRQREGEAEAVGAVEEEAGQ

>sp|POC7V7|SEC11B\_HUMAN Putative signal peptidase complex catalytic subunit SEC11B OS=Homo sapiens GN=SEC11B PE=5 SV=1

MNKWRLYYQVLNFGMIVSSALMIWKGLMVTGSESPIVLLSGSMEPAFHRGYLLFLTNRV  
EDPIRVGEIAVLRIEGRKIPIVHRVLKIHKQNGHIKFLTKGDNNVDDRGLYKQDQHWL  
EKKDVVGRARGFVPYIGIGTSLMNDYPKHKYEVLFLGLFVLVHRE

>sp|Q9BRL7|SEC22C\_HUMAN Vesicle-trafficcking protein SEC22c OS=Homo sapiens GN=SEC22C PE=1 SV=1

MSVIFFACVVRVRDGLPLSASTDFYHTQDFLEWRRRLKSLALRLAQYPGRGSAEGCDFSI  
HFSSFGDVACMAICSCQCPAAMAFCFLETLWWEFTASYDTTCIGLASRPYAFLEFDSIIQ  
KVKWHFNYVSSSQMECSLEKIQEELKLQPPAVLTLEDTDVANGVMNGHTPMHLEPAPNFR  
MEPVTALGILSLILNIMCAALNLIRGVHLAEHSLQVAHEEIGNILAFVLPFVACIFQCYL  
YLFYSPARTMKVVLMLLFICLGNMYLHGLRNLWQILFHIGVAFLSSYQILTRQLQEKQSD  
CGV

>sp|Q15437|SEC23B\_HUMAN Protein transport protein Sec23B OS=Homo sapiens GN=SEC23B PE=1 SV=2

MATYLEFIQQNEERDGVRFSSWNVWPSSRLEATRMVVPLACLLTPLKERPDLPVQYEPVL  
CSRPTCKAVLNPLCQVDYRAKLWACNFCFQRNQFPAYGGISEVNQPAELMPQFSTIEYV  
IQRGAQSPLIFLYVVDTCLEEDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSC  
EGISKSYVFRGKTDLTAKQIQDMLGLTKPAMPMQQARPAQPQEHFPAASSRFLQPVHKIDM  
NLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGTFPNTGARIMLFTGGPPTQGP

GMVVGDELKIPIRSWHDIEKD NARFMKKATKHYEMLANRTAANGHCIDIYACALDQTGLL  
EMKCCANLTGGYVMGDSFN TSLFKQTFQRIFTKDFNGDFRMAFGATLDVKTSRELKIAG  
AIGPCVSLNVKGPCVSENE LGVGGTSQWKICGLDPTSTLGIYFEVNVQHNTPI PQGGRGA  
IQFVTHYQHSSTQRRIRVT TIARNWADVQSQLRHIEAAFDQEA AAVLMARLGVFRAESEE  
GPDVLRWLDRQLIRLCQKF GQYNKEDPTSFRLSDSFSLYPQFMFHLRRSPFLQVFNNSPD  
ESSYYRHHFARQDLTQSL IMIQPILYSYSFHGPPEPVLLDSSSILADRILLMDTFFQIVI  
YLGETIAQWRKAGYQDMPEY ENFKHLLQAPLDDAQEILQARFPMPRYINTEHGGSQARFL  
LSKVNPSQTHNNLYAWGQ ETGAPILTDDVSLQVFMHLLKLA VSSAC

>sp|095486|SC24A\_HUMAN Protein transport protein Sec24A OS=Homo sapiens GN=SEC24A PE=1  
SV=2

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PIPAKTLNPVSGQSNYGG SQSGGQTLNRPPVASNPVTPSLHSGPAPRMPLPASQNPATTP  
MPSSSFLPEANLPPPLNWQYNYPSTASQTNHCPRASSQPTVSGNTSLT TNHQYVSSGYPS  
LQNSFIKSGPSVPPLVNPPLPTTFQPGAPHGPPPAGGPPPV RALTPLTSSYRDVPQLFN  
SAVNQEGITSNTNNGSMV VHSSYDEIEGGGLLATPQLTNKNPKMSR SVGYSPSLPPGYQ  
NTTPPGATGVPPSSLNYP SGPQAFTQTPLGANHLTTSMSGLSLQPEGLRVVNLQERNML  
PSTPLKPPVPNLHEDIQK LNCNPELFRCTLTSIPQTQALLNKAKLPLG LLLHPFKDLVQL  
PVVTSSTIVRCRSCRTY INPFVSFLDQRRWKC NLCYRVNDVPEEFLYNPLTRVYGEPHRR  
PEVQNATIEFMAPSEYML RPPQPPVYLFVFDVSHNAVETGYL NSVCQSLLDNLDLLPGNT  
RTKIGFITFDSTIH FYGLQESLSQPQMLIVSDIEDVFIPMPENLLVNLNESKELVQDLLK  
TLPQMFTKTLETQSALG PALQAAFKLMSPTGGRMSVFQTQLPTLG VGALKPREEPNHRSS  
AKDIHMT PSTDFYKKLALDCSGQQVAVDLFLLSGQYSDLASLGCISRYSAGSVYYYPSYH  
HQHNPVQVQKLQKELQ RYLTRKIGFEAVMRIRCTKGLSIHTFHGNFFVRSTDLLSLPNVN  
PDAGYAVQMSVEESLTDTQLVSFQSALLYTSSKGERRIRVHTLCLPVVSTLNDVFLGADV  
QAISGLLANMAVDRSMTAS LSDARDALVNAVIDSLSAYRSSVLSNQQPGLMVPFSLR LFP  
LFLVALLKQKSFQGTGNARLDERIFAMCQVKNQPLVYLM LTHPSLYRVDNLSDEGALNI  
SDRTIPQPPILQLSVEKLSRDGAFLMDAGSVLMLWVGKNCTQNF LSQVLGVQNYASIPQP  
MTDLPELDTPESARI IAFISWLREQRPFFPILYVIRDESPMKANFLQNMIEDRTESALSY  
YEFLHHIQQQVNK

>sp|095487|SC24B\_HUMAN Protein transport protein Sec24B OS=Homo sapiens GN=SEC24B PE=1  
SV=2

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HQNYIAPSGHYSQGP GKMTSLPLDTQCGDYYSALYTVPTQNVTPNTVNQQPGAQQLY SRG  
PPAPHIVGSTLG SFQGAASSASHLTSASQPYSSFVNHYNSPAMYSASSSVASQGFPSTC  
GHYAMSTVSNAAYPSVS YPSLPAGDTYGMFTSQNAPTVRPVKDNSFSGQNTAISHPSPL  
PPLPSQQHHQQQLSGYSTL TWSSPGLPSTQDNLIRNHTGSLAVANNNTITVADSLSCP  
VMQNVQPPKSSPVSTVLSGSSGSSSTRTPPTANHPVEPVTSVTQPSELLQQKG VQYGEY  
VNNQASSAPTPLSSTS DDEEEEEDEEAGVDSSTSSASPMPSYDALEGGSYPDMLSS  
SASSPAPDPAPEPDASAPAPASAPVVPQPSKMAKPF GYGYP TLQPGYQNATAPLISG  
VQSPNPVYSGFQQYPQQY PGVNQLSSSIGGLSLQSSPQPESLRPVNLQERNILPMTPVW  
APVPNLNADLKKLNCSPDSFRCTLTNIPQTQALLNKAKLPLG LLLHPFRDLTQLPVITSN  
TIVRCRSCRTYINPFV SFIDQRRWKC NLCYRVNDVPEEFMYNPLTRSYGEPHKRPEVQNS  
TVEFIASSDYMLRPPQ PAVYLFVLVDVSHNAVEAGYLTILCQS LLENLDKLPGDSRTRIGF  
MTFDSTIHFYNLQEGLSQPQMLIVSDID DVFLPTPDSLLVNLYESKELIKDLLNALPNMF

TNTRETHSALGPALQAAFKLSMPTGGRVSVFQTQLPSLGAGLLQSREDPNQRSSTKVVQH  
LGPATDFYKKLALDCSGQQTAVDLFLLSSQYSDLASLACMSKYSAGCIYYYP SFHYTHNP  
SQAELQKDLKRYLTRKIGFEAVMRIRCTKGLSMHTFHGNFFVRSTDLLSLANINPDAGF  
AVQLSIEESLTDTSLVCFQTALLYTSSKGERRIRVHTLCLPVSSSLADVYAGVDVQAAIC  
LLANMAVDRSVSSSLSDARDALVNAVVDLSAYGSTVSNLQHSALMAPSSLKLFPLYVLA  
LLKQKAFRTGTSTRLDDRVIAMCQIKSQPLVHLMKMIHPNLYRIDRLTDEGAVHVNDRIV  
PQPPLQKLSAEKLTREGAFLMDCGSVFYIWWGKGCDNNFIEDVLGYTNFASIPQKMTHLP  
ELDTLSSERARSFITWLRDSRPLSPILHIVKDESPA KAEFFQHLLIEDRTEAAFSYEFLL  
HVQQQICK

>sp|094855|SC24D\_HUMAN Protein transport protein Sec24D OS=Homo sapiens GN=SEC24D PE=1  
SV=2

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GSQLSAMQINSYSGSMAPPSQGPPLSATSLSQTTPRPPQPSILQPGSQVLPPP TTLNG  
PGASPLPLPMYRPDGLSGPPPPNAQYQPPPLPGQTLGAGYPPQQANSGPQMAGASYPG  
GFPGGPAQMAGPPQPQKKLDPDSIPSPIQVIENDRASRGGQVYATNTRGQIPPLVTDCM  
IQDQGNASPRFIRCTTYCFPCTSDMAKQAQIPLAAVIKPFATIPS NESPLYLVNHGESGP  
VRCNRCKAYMCPFMQFIEGRRYQCGFCNCVNDVPPFYFQHLDHIGRRLDHYEKP ELSLG  
SYEYVATLDYCRKSKPPNPPAFIFMIDVSYSNIKNGLVKLICEELKTMLEKIPKEEQEET  
SAIRVGFITYNKVLHFFNVKS NLAQPQMMVVTDVGEVFPPLLDGFLVNYQESQSVIHNLL  
DQIPDMFADSNETVFAPVIQAGMEALKAADCPGKLFIFHSSLPTAEAPGKLKNRDDKK  
LVNTDKEKILFQPQTNVYDSLAKDCVAHGCSVTLFLFPSQYVDVASLGLVPQLTGGTLYK  
YNNFQMHLDRQQFLNDLRNDIEKKIGFDAIMRVRTSTGFRATDFFGGILMNNTTDVEMAA  
IDCDKAVTVEFKHDDKLS EDSGALIQCAVLYTTISGQRRRLRIHNLGLNCSSQLADLYKSC  
ETDALINFFAKSAFAVLHQPLKVIREILVNQTAHMLACYRKNCASPSAASQLILPD SMK  
VLPVYMNCLLKNCVLLSRPEISTDERAYQRQLVMTMGVADSQLFFYPQLLP IHTLDVKST  
MLPAAVRCSESRLSEEGIFLLANGLHMFVLGVSSPPELIQGIFNVPSFAHINTDM TLLP  
EVGNPYSQQLRMIMGIIQQKRPYSMKLTIVKQREQPEMVFRQFLVEDKGLYGGSSYVDFL  
CCVHKEICQLLN

>sp|AOPJK1|SC5AA\_HUMAN Sodium/glucose cotransporter 5 OS=Homo sapiens GN=SLC5A10 PE=1  
SV=2

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PIGASLFASSESGSLFIFLAGSGAAGGLAVAGFEWNATYVLLALAWVFVPIYISSEIVTL  
PEYIQKRYGGQRIRMYLSVLSLLSVFTKISLDLYAGALFVHICLGWNFYLSTILTLGIT  
ALYTIAGGLAAVIYTDALQTLIMVVGAVILTIKAFDQIGGYGQLEAAYAQAIPSR TIAN  
TCHLPRTDAMHMFDPHTGDLPTWGTMTFGLTIMATWYWCTDQVIVQRSLSARDLNHAKAG  
SILASYLKMLPMGLIIMPGMISRALFPDDVGCVPVSECLRACGAEVGCSNIAYPKLV MEL  
MPIGLRGLMIAVMLAALMSSLTSIFNSSSTLFTMDIWRRLRPRSGERELLLVGR LVIVAL  
IGVSVAWIPVLQDSNSGQLFIYMQSVTSSLAPPVTAVFVLGVFWRRANEQGAFWGLIAGL  
VVGATRLVLEFLNPAPPCGEPDTRPAVLGSIHYLHFAVALFALSGAVVAGSLLTPPPQS  
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>sp|Q8WWX8|SC5AB\_HUMAN Sodium/myo-inositol cotransporter 2 OS=Homo sapiens GN=SLC5A11  
PE=1 SV=1

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IAGQVTTMPEYLRKRFGGIRIPIILAVLYLFYIYFTKISVDMYAGAFIFIQQLHLDLYLA  
IVGLLAITAVYTVAGGLAAVIYTDALQTLIMLIGALTMGYSAFAVGGMEGLKEKYFLAL  
ASNRSSENSCGLPREDAFHIFRDPLTSDLPWPGVLFGMSIPSLWYWCTDQVIVQRTLAAK  
NLSHAKGGALMAAYLKVLPLFIMVFPGMVSRI LFPDQVACADPEICQKICSNPSCGSDIA  
YPKLVLLELLPTGLRGLMMAVMVAALMSSLTSIFNSASTIFTMDLWNHLRPRASEKELMIV  
GRV FVLLLVLVSILWIPVVQASQGGQLFIYIQSISSYLQPPVAVVFIMGCFWKRTNEKGA  
FWGLISGLLLGLVRLVLDFIYVQPRCDQPDERPVLVKS IHLYFQSMILSTVTLITVSTVS  
WFTPEPPSKEMVSHLTFWTRHDPVVQKEQAPPAAPLSLTLSQNGMPEASSSSSVQFEMVQE  
NTSKTHSCDMTPKQSKVVKAILWLCGIQEKGKEELPARAEAIIVSLEENPLVKTLLDVNL  
IFCVSCAIFIWGYFA

>sp|Q96I15|SCLY\_HUMAN Selenocysteine lyase OS=Homo sapiens GN=SCLY PE=1 SV=4

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PSSPYSAGRKAKDIINAARESLAKMIGGKPQDIIFTSGGTESNNLVIHSVVKHFHANQTS  
KGHTGGHHSPVKGAKPHFITSSVEHDSIRLPLEHLVEEQVAAVTFVPVSKVSGQAEVDDI  
LAAVRPTTRLVTIMLANNETGIVMPVPEISQRIKALNQERVAAGLPPILVHTDAAQALGK  
QRVDVEDLGVDFLTIVGHKFYGPRI GALYIRGLGEFTPLYPMLFGGGQERNFRPGTENTP  
MIAGLGKAAELVTQCEAYEAHMRDVRDYLEERLEAEFGQKRIHLNSQFPGTQRLPNTCN  
FSIRGPRLQGHVLAQCRVLMASVGAACHSDHGDQPSVLLSYGVFPDVARNALRLSVGR  
STTRA EVDLVVQDLKQAVAQLEDQA

>sp|Q6NUK1|SCMC1\_HUMAN Calcium-binding mitochondrial carrier protein SCaMC-1 OS=Homo sapiens GN=SLC25A24 PE=1 SV=2

MLRWLRDFVLPTAACQDAEQPTRYETL FQALDRNGDGVVDIGELQEGLRN LGIPLGQDAE  
EKIFTTG DVNKDGKLD FEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGL  
TISEQQAELILQSIDVDGMTVDWNEW RDYFLFNPVTDIEEIIRFWKHSTGIDIGSLTI  
PDEFTED EKKSGQWWRQLLAGGIAGAVSRTSTAPLDRLKIMMVHGSKSDKMNI FGGFRQ  
MVKEGGIRSLWRNGNTNVIKIAPETAVKFWAYE QYKKLLTEEGQKIGTFERFISGSMAGA  
TAQTFIYPM EVMKTRLAVGKTGQYSGIYDCAKKILKHEGLGAFYKGYVPNLLGIIPYAGI  
DLAVYELLKSYWLDNFAKDSVNP GVMVLLGCGALSSTCGQLASYPLALVRTRMQAQAMLE  
GSPQLNMVGLFRRIISKEGIPGLYRGITPNFMKVLPAVGISYVVYENMKQTLGVTQK

>sp|Q96GD3|SCMH1\_HUMAN Polycomb protein SCMH1 OS=Homo sapiens GN=SCMH1 PE=1 SV=1

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SMKLEAQDPRNTTSTCIATVVGLTGARLRLRLDGS DNKNDFWRLVDSAEIQPIGNCEKNG  
GMLQPPLGFRLNASSWPMFLKTLNGAEMAPIRIFHKEPPSPSHNFFKMGMKLEAVDRKN  
PHFICPATIGEVRGSEVLVTFD GWRGAFDYWCRFDSRDIFPVGWCSLTGDNLQPPGTVV  
IPKNPYPASDVNTEKPSIHSSTKT VLEHQPGQRGRKPGKKRGRTPKTLISHPI SAPSKTA  
EPLKFPKRGKPGKSKRKPR TLLNPPPASPTTSTPEPDTSTVPQDAATIPSSAMQAPTVC  
IYLNKNGSTGPHLDKKKVQQLPDHFGPARASVVLQQAVQACIDCAYHQKT VFSFLKQGHG  
GEVISAVFDREQHTLNLPAVNSITYVLRFL EKLCHNLRSDNLFGNQPFTQTHLSLTAIEY  
SHSHDRYLPGETFVLGN SLARSLEPHSDSMDASNPNTLVSTSQRHRPLLSSCGLPPSTA  
SAVRRLC SRGVLKGSNERRDMESFWKLNRSPGSDRYLESRDASRLSGRDPSSWTVEDVMQ  
FVREADPQLGPHADLFRKHEIDGKALLLRSDMMMKYMG LKLGPAKLKSYHIDRLKQKGF

>sp|Q9UI33|SCNBA\_HUMAN Sodium channel protein type 11 subunit alpha OS=Homo sapiens GN=SCN11A PE=1 SV=2

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LAIRVSVHSLFSMFIIIGTVIINCVFMATGPAKNSNSNNTDIAECVFTGIYIFEALIKILA  
RGFILDEFsFLRDPWNWLDsIVIGIAIVSYIPGITIKLLPLRTRFRVFRALKAISVVSRLK  
VIVGALLRSVKKLVNVIILTFCLsIFALVGQQLFMGSLNLKCISRCKNISNPEAYDHC  
FEKKENSPEFKMCGIWMGNSACSIQYECKHTKINPDYNYTNFDNFGWSFLAMFRLMTQDS  
WEKLYQQTLRTTGLYSVFFFIVVIFLGSFYLINLTLAVVTMAYEEQKNVAAEIEAKEKM  
FQEAQQLLKEEKEALVAMGIDRSSLTsLETSYFTPKKRKLFGNKKRSFFLRESGKDQPP  
GSDSDEDCQKKPQLEQTKRLSQNLSLDHFDEHGDPLQRQRALSAVSILITITMKEQESQ  
EPCLPCGENLASKYLVWNCCPQWLCVKKVLRVMTDPFTELAITICIIINTVFLAMEHHK  
MEASF EKMLNIGNLVFTSIFIAEMCLKIIALDPYHYFRRGWNIFDSIVALLSFADVMNCV  
LQKRSWPFLRSFRVLRVFKLAKSWPTLNTL IKIIGNSVGALGSLTVVLVIVIFIFSVMGM  
QLFGRSFNSQKSPKLCNPTGPTVSCLRHWHMGDFWHSFLVFRILCGEWIENMWECMQEA  
NASSSLCVIVFILITVIGKLVVLNLFIALLLNSFSNEERNGNLEGEARKTKVQLALDRFR  
RAFCFVRHTLEHFCHKWCRKQNLPPQKEVAGGCAAQSKDIPLVMEMKRGETQEELGIL  
TSVPKTLGVRHDWTWLAPLAEEDDVEFSGEDNAQRITQPEPEQQAYELHQENKKPTSQR  
VQSVEIDMFSEDEPHLTIQDPRKKSVDVTSILSECSTIDLQDGFGLPEMVPKKQPERCLP  
KGFGCCFPCCSVDKRKPPWVIWWNLRKTCYQIVKHSWFESFIIIFVILLSSGALIFEDVHL  
ENQPKIQELLNCTDIFTHIFILEMVLKWVAFGFGKYFTSAWCCLDFIIVIVSVTTLINL  
MELKSFRTLRALRPLRALSQFEGMKVVVNALIGAIPAILNVLLVCLIFWLVFCILGVYFF  
SGKFGKCINGTDSVINYTIITNKSQCESGNFSWINQKVNFDNVGNAYLALLQVATFKGWM  
DIIYAAVDSTEKEQQPEFESNSLGYIYFVVFIIFGSFFTLNLFIGVIIDNFNQQQKLG  
QDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPLNKCQGLVFDIVTSQIFDIIISLIILNM  
ISMMAESYNQPKAMKSILDHLNWVVFVIFTLECLIKIFALRQYYFTNGWNLFDCVVVLLS  
IVSTMISTLENQEHIPIFPPTLFRIVRLARIGRILRLVRAARGIRTLLFALMMSLPSLFNI  
GLLLFLIMFIYAILGMNWFsKVNPESGIDDFNFKTFASSMLCLFQISTSAGWDSLLSPM  
LRSKESCNSSSENCHLPGIATSYFVSYIIISFLIVVNMYIAVILENFNTATEESEDPLGE  
DDFDIFYEVWEKFDEPATQFIKYSALSDFADALPEPLRVAKPNKYQFLVMDLPMVSEDRL  
HCMDILFAFTARVLGGSDGLDSMKAMMEEFMEANPLKKLYEPIVTTTKRKEEERGAII  
QKAFRKYMMKVTKGDQGDQNDLENGPHSPLQTLcNGDLSSFGVAKGKVHCD

>sp|P55809|SCOT1\_HUMAN Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial  
OS=Homo sapiens GN=OXCT1 PE=1 SV=1

MAALKLLSSGLRLCASARGSGATWYKGCVCsFSTSAHRHTKFYTDpVEAVKDIPDGATVL  
VGGFGLCGIPENLIDALLKTGVKGLTAVSNNAGVDNFGGLLLRSKQIKRMVSSSYVGENA  
EFERQYLSGELEVELTPQGTLAERIRAGGAGVPAFYTPTYGTLVQEGGSPIKYNKDSV  
AIASKPREVREFNGQHFILEEAITGDFALVKAWKADRAGNVIFRKSARNFNLMCKAAET  
TVVEVEEIVDIGAFAPEDIHIPQIYVHRLIKGEKYEKRIERLSIRKEGDGEAKSAKPGDD  
VRERIIKRAALEFEDGMYANLIGIPLLASNFISPNTVHLQSENGVLGLGPYPRQHEAD  
ADLINAGKETVTIILPGASFFSSDESFAMIRGGHVDLTMLGAMQVSKYGDLANWMIPGKMV  
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>sp|Q8WTV0|SCRB1\_HUMAN Scavenger receptor class B member 1 OS=Homo sapiens GN=SCARB1 PE=1  
SV=1

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IPFYLSVYFFDVMNPSEILKGEKPQVRERGPYVYREFRHKSNITFNNNDTVSFLEYRTFQ  
FQPSKSHGSESDYIVMPNILLVGAAVMMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIM  
WGYKDPVLNLINKYFPGMFPFKDKFGLFAELNNSDGLFTVFTGVQNISRIHLVDKWNGL  
SKVDFWHSQCNMINGTSGQMWPFPMTPESSLEFYSPACRSMKLMYKESGVFEGIPTYR  
FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG  
LHPNQEAHSLFLDIHPVTGIPMNCVSKLQLSLYMKSVAGIGQTGKIEPVVLPPLWFAESG  
AMEGETLHTFYTQLVLPKVMHYAQYVLLALGCVLLLVVICQIRSQVGAGQRAARADSH  
SLACWKGASDRTLWPTAAWSPPPAAVLRRLCRSGSGHCWGLRSTLASFACRVATTLPVLE  
GLGPSLGGGTGS

>sp|075711|SCRG1\_HUMAN Scrapie-responsive protein 1 OS=Homo sapiens GN=SCRG1 PE=1 SV=1  
MKLMVLVFTIGLTLLGVQAMPANRLSCYRKILKDHNCHNLPEGVADLTQIDVNVQDHF  
DGKGCEMICYCNFSELLCCPKDVFFGPKISFVIPCNNQ

>sp|Q14160|SCRIB\_HUMAN Protein scribble homolog OS=Homo sapiens GN=SCRIB PE=1 SV=4  
MLKCIPLWRCNRHVESVDKRHCSLQAVPEEIYRYSRLEELLDDANQLRELKPKPFRLN  
LRKLGLSDNEIQRLPPEVANFMQLVELDVSNDIPEIPESIKFCKALEIADFSGNPLSRL  
PDGFTQLRSLAHLALNDVSLQALPGDVGNLANLVTLELRENLLKSLPASLSFLVKLEQLD  
LGGNDLEVLPTDGLALPNLRELWLDRNQLSALPELGNLRLVCLDVSENREELPAELG  
GLVLLTDLLLSQNLRLRLPDGIGQLKQLSILKVDQNRLCEVTEAIGDCENLSELILTENL  
LMALPRSLGKLTCLTNLNVDRNHLEALPPEIGGCVALSVLSLRDNRLAVLPPELAHTTEL  
HVLDVAGNRLQSLPFALTHNLKALWLAENQAQPMRFQTEDDARTGEKVLTCYLLPQQP  
PPSLEDAGQQGSLSETWSDAPSRVSVIQFLEAPIGDEDAEAAAAEKRLQRRATPHPSE  
LKVMKRSIEGRRSEACPCQPDGSGPLPAEEKRLSAESGLSEDSRPSASTVSEAEPEGPS  
AEAQGGSSQQEATTAGGEEDAEDYQEPTVHFAEDALLPGDDREIEEGQPEAPWTLPGGRQ  
RLIRKDTPHYKKHFKISKLPQPEAVVALLQGMQPDGEGPVAPGGWHNGPHAPWAPRAQKE  
EEEEEEGSPQEEVEEEENRAEEEEASTEEEDKEGAVVSAPSVKGVSFQANNLLIEPA  
RIEEEELTILRQTGGLGISIAGGKGSTPYKGDEGIFISRVSEEGPAARAGVRVGDKL  
LEVNGVALQGAEHHEAVEALRGAGTAVQMRVWRERMVEPENAVTITPLRPEDDYSRERR  
GGGLRPLLPPESPGPLRQRHVACLARSERGLGFSIAGGKGSTPYRAGDAGIFVSRIAEG  
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GSDHSSHFPQVQEPGVFISKVLPRGLAARSLRVGDRILAVNGQDVRDATHQEAVSALLR  
PCLELSLLVRRDPAPPGLRELQKAPGERLGISIRGGARGHAGNPRDPTDEGIFISKVS  
PTGAAGRDGRLRVGLRLLEVNQSLGLTHGEAVQLLRVGDTLTVLVCDGFEASTDAAL  
EVSPGVIANPFAAGIGHRSLESISSIDRELSPEGPGKEKELPGQTLHWGPEATEAAGRG  
LQPLKLDYRALAAVPSAGSVQVRVPSGAAGGKMAESPCSPSGQQPPSPSPDEL PANVKQA  
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GADDLRKMQEEEARLQKQRAQMLREAAEAGAEARLALDGETLGEEQEDEQPPWASPS  
TSRQSPASPPPLGGAPVRTAKAERRHQERLRVQSPEPPAPERALS PAELRALEAEKRAL  
WRAARMKSLEQDALRAQMVLRSQEGRGTRGPLERLAEAPSPAPTPSPTVEDLGPQTST  
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>sp|P34741|SDC2\_HUMAN Syndecan-2 OS=Homo sapiens GN=SDC2 PE=1 SV=2  
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EDVESPELTTSRPLPKILLTSAAPKVETTLNIQNKIPAQTKSPEETDKEKVHLSDSERK

MDPAEEDTNVYTEKHSDSLFKRTEVLA AVIAGGVIGFLFAIFLILLLVYMRKKDEGSYD  
LGERKPSSAAYQKAPTKEFYA

>sp|Q9H190|SDCB2\_HUMAN Syntenin-2 OS=Homo sapiens GN=SDCBP2 PE=1 SV=2

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QEVQESLLQIPEGDSTAVSGPGPGQMVAPVTGYSLGVRRAEIKPGVREIHLCKDERGKTG  
LRLRKVDQGLFVQLVQANTPASLVGLRFGDQLLQIDGRDCAGWSSSHKAHQVVKKASGDKI  
VVVVRDRPFQRTVTMHKDSMGHVGFVIKKGKIVSLVKGSSAARNGLLTNHYVCEVDGQNV  
IGLKDKKIMEILATAGNVVTLTIIPSVIYEHMVKKLPPVLLHHTMDHSIPDA

>sp|Q9NX18|SDHF2\_HUMAN Succinate dehydrogenase assembly factor 2, mitochondrial OS=Homo sapiens GN=SDHAF2 PE=1 SV=1

MAVSTVFSTSSLMLALSRHSLLSPLLSVTSFRRFYRGDSPTDSQKDMIEIPLPPWQERTD  
ESIETKRARLLYESRKRGMLENCILLSLFAKEHLQHMTKQLNLYDRLINEPSNDWDIYY  
WATEAKPAPEIFENEVMALLRDFAKNKNKEQRLRAPDLEYLFKPR

>sp|P57772|SELB\_HUMAN Selenocysteine-specific elongation factor OS=Homo sapiens GN=EEFSEC PE=1 SV=4

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PARLRSSLPEFQAAPEAEPEPEPGEPLLQVTLVDCPGHASLIRTIIGGAQIIDLMMLVIDVT  
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IIPVAAKPGGPEAPETEAPQGIPELIELLSQISIPTRDPSGPFMSVDHCFSIKGQGTV  
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GLVCAPESLHTVHAALISVEKIPYFRGPLQTKAKFHITVGHETVMGRLMFFSPAPDNFDQ  
EPILDSFNFSQEYLFQEYLSKDLTPAVTDNDEADKKAGQATEGHCPQQWALVEFEKPV  
TCPRLCLVIGSRLDADIHTNTCRLAFHGILLHGLEDRNYADSFLPRLKVYKLKHKHGLVE  
RAMDDYSVIGRSLFKKETNIQLFVGLKVHLSTGELGIIDSAFGQSGKFKIHIPGGLSPES  
KKILTPALKKRARAGRGEATRQEESAERSEPSQHVVLSLTFKRYVFDTHKRMVQSP

>sp|Q9H3S1|SEMA4A\_HUMAN Semaphorin-4A OS=Homo sapiens GN=SEMA4A PE=1 SV=2

MALPALGLDPWSLLGLFLFQLQLLLPTTAGGGGQGPMPRVRYAGDERRALSFFHQKG  
LQDFDTLLLSGDGNTLYVGAREAILALDIQDPGVPRKNMIPWPASDRKKSECAFKKSN  
ETQCFNFIRVLVSYNVTHLYTCGTFAFSPACTFIELQDSYLLPISEDKVMEGKGQSPFDP  
AHKHTAVLVDGMLYSGTMNNLGSEPILMRTLGSQPVLKTDNFLRWLHHDASFVAaipst  
QVVYFFFEETASEFDDFERLHSTRVARVCKNDVGGKLLQKKWTTFLKAQLLCTQPGQLP  
FNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLLDIERVFKGKYKELNKE  
TSRWTTYRGPETNPRPGSCSVGPSSDKALTFMKDHFLMDEQVVGTPLLVKSGVEYTRLAV  
ETAQGLDGHSHLVMLGTTTGLSHKAVVSGDSSAHLVEEIQLPDPEPVRLQLAPTQGA  
VFVGFSGGVWRVPRANCSVYESCVDCVLARDPHCAWDPESTRCCLLSAPNLNSWKQDMER  
GNPEWACASGPMSRSLRPQSRPQIIKEVLAVPNSILELPCPHLSALASYWSHGPAAVPE  
ASSTVYNGSLLLIVQDVGGLYQCWATENGFSYPVISYWVDSQDQTLALDPELAGIPREH  
VKVPLTRVSGGAALAAQSYWPHFVTVTVLFALVLSGALIILVASPLRALRARGKVQGCE  
TLRPGEKAPLSREQHLQSPKECRTSASDVDADNNCLGTEVA

>sp|Q9HC62|SEN2\_HUMAN Sentrin-specific protease 2 OS=Homo sapiens GN=SEN2 PE=1 SV=3

MYRWLVRI LGTIFRFCDRSVPPARALLKRRRS DSTLFSTVD TDEIPAKRPRLDCF IHQVK  
NSLYNAASLFGFPFQLTTKPMVTSACNGTRNVAPSGEVFSNSSSCELTGSGSWNNMLKLG  
NKPNGISDYPKIRVTVTRDQPRRVLP SFGFTLNSEGCNRRPGGRRHSGKNPESSLMWKP  
QEQA VTEMI SEESGKGLRRPHCTVEEGVQKEEREKYRKLLERLKESGHGNSVCPVTSNYH



SSQRSQMDTLKTKGWGEEQNHGVKTTQFVPKQYRLVETRGPLCSLRSEKRC SKGKITDTE  
TMVGIRFENESRRGYQLEPDLSEEV SARLR LSGSNGLLRRKVSIIETKEKNCSGKERDR  
RTD LLELTEDMEKEISNALGHGPQDEILSSAFKL RITRGDIQTLKNYHWNDEVINFYM  
NLLVERNKKQGYPALHVFSTFFYPKLKSGGYQAVKRWTKGVNLFEQEII LVP IHRKVHWS  
LVVIDLRKKCLKYLD SMGQKGHRICEILLQYLQDESKTKRNSDLNLEWTHHSMKPHEIP  
QQLN GSDCGMFTCKYADYISRDKPITFTQHQMPLFRKKMVWEILHQQLL

>sp|Q9NVA2|SEPT11\_HUMAN Septin-11 OS=Homo sapiens GN=SEPT11 PE=1 SV=3

MAVAVGRPSNEELRNLSLSGHVGFDSLDPQLVNKSTSQGFCFNILCVGETGIGKSTLMDT  
LFNTKFESDPATHNEPGVRLKARSYELQESNVRLKLTIVDTVGFQDQINKDDSYKPIVEY  
IDAQFEAYLQEELKIKRSLFNYHDTRIHA CLYFIAPTGHSLKSLDLVTMKKLDSKVN IIP  
IIAKADTI AKNELHKFKSKIMSELV SNGVQIYQFPTDEETVAEINATMSVHL PFAVVGST  
EEVKIGNKMAKARQYPWGVVQVENENHCD FVKLREMLIRVN MEDLREQTHTRHYEL YRRC  
KLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVMRVKEKEAELKEAE  
KELHEKFDLLKRTHQEEKKKVEDKKKELEEEVN NFQKKKAAAQLLSQAQQSGAQQTKKD  
KDKKNASFT

>sp|Q92599|SEPT8\_HUMAN Septin-8 OS=Homo sapiens GN=SEPT8 PE=1 SV=4

MAATDLERFSNAEPEPRSLSLGGHVGFDSLDPQLVSKSVTQGFSFNILCVGETGIGKSTL  
MNTLFNTTFETEEASHHEACVRLRPQTYDLQESNVQLKLTIVDAVGFGDQINKDESYPRI  
VDYIDAQFENYLQEELKIRRS LFDYHDTRI HVCLYFITPTGHSLKSLDLVTMKKLDSKVN  
IPIIIAKADTISKSELHKFKIKIMGELV SNGVQIYQFPTDDEAVAEINAVMNAHL PFAVV  
GSTEEVKVGNKLVRARQYPWGVVQVENENHCD FVKLREMLIRVN MEDLREQTHSRHYELY  
RRCKLEEMGFQSDGDSQPFS LQETYEAKRKEFLSELQRKEEEMRQMFVNKV KETELK  
EKERELHEKFEHLKR VHQEEKRKVEEKRRELEETNAFNRRKA AVEALQS QALHATSQQP  
LRKDKDKNRSDIGAHQPGMSLSSSKVMMTKASVEPLNCSSWWPAIQCCSCLVRDATWRE  
GFL

>sp|Q9UHD8|SEPT9\_HUMAN Septin-9 OS=Homo sapiens GN=SEPT9 PE=1 SV=2

MKKSYSGGTRTSSGRLRRLGDSSGPALKRSFEVEEVEPTPNSTPPRRVQTPLL RATVASST  
QKFQDLGVKNSEPSARHVDLSLQSRSPKASLRREL SGPKAAEPVSRRT ELSIDISSKQVE  
NAGAIGPSRFLKRAEVLGHKTPEPAPRRT EITIVKPQESAHRMEPPASKVPEVPTAPA  
TDAAPKRVEIQMPKPAEAPTAPSPAQTLENSEPAPVSQ LQSRLEPKPQPPVAEATPRSQE  
ATEAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSI LEQMRRKAMKQGFEFN  
IMVVGQSGLGKSTLINTLFKSKISRSVQPTSEERIPKTIEIKSITHDIEEKGVRMKLTV  
IDTPGFGDHINNENCWQPI MKFINDQY EKYLQEEVNINRKKRIPDTRVHCCLYFIPATGH  
SLRPLDIEFMKRLSKVVNIPVIAKADTLTLEERVHFKRITADLLSNGIDVYPQKEFDE  
DSEDRLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTHCEFAYLRDLL  
IRTHMQNIKDITSSIHFEAYRVKRLNEGSSAMANGMEEKEPEAPEM

>sp|O43175|SERA\_HUMAN D-3-phosphoglycerate dehydrogenase OS=Homo sapiens GN=PHGDH PE=1 SV=4

MAFANLRKVLISDSLDPCCRKILQDGG LQVVEKQNL SKEELIAELQDCEGLIVRSATKVT  
ADVINA AEKLQVVG RAGTGVDNV DLEAATRGILVMNTPNGNSLSAAELTCGMIMCLARQ  
IPQATASMKDGKWERKKFMGT ELNGKTLGILGLGRIGREVATRMQSFGMKTIGYDPIISP  
EVSASFVQQLPLEEIWPLCDFITVHTPLLSTTG LLNDNTFAQCKKGVRV VNCARGGIV  
DEGALLRALQSGQCAGAALDVFTTEPPRDRALVDHENVISCPHLGASTKEAQSRCGEEIA  
VQFVDMVKGKSLTGVVNAQALTSAFSPHTKPWIGLAEALGTL MRAWAGSPKG TIQVITQG

TSLKNAGNCLSPAVIVGLLKEASKQADVNLVNAKLLVKEAGLNVTTSHSPAAPGEQGFGE  
CLLAVALAGAPYQAVGLVQGTTPVLQGLNGAVFRPEVPLRRDLPLLLFRTQTSDPAMLPT  
MIGLLAEAGVRLLSYQTSLSVSDGETWHVMGISSLLPSLEAWKQHVTEAFQFHF

>sp|P78330|SERB\_HUMAN Phosphoserine phosphatase OS=Homo sapiens GN=PSPH PE=1 SV=2

MVSHSELRKLFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKA  
ALTERLALIQPSREQVQRLIAEQPPHLTPGIRELVSRQLQERNVQVFLISGGFRSIVEHVA  
SKLNIPATNVFANRLKFYFNGEYAGFDETQPTAESGGKGKVIKLLKEKFHFKKIIMIGDG  
ATDMEACPPADAFIGFGNVIRQQVKDNAKWYITDFVELLGELEE

>sp|Q86TU7|SETD3\_HUMAN Histone-lysine N-methyltransferase setd3 OS=Homo sapiens GN=SETD3  
PE=1 SV=1

MGKKSrvktQKSGTGATATVSPKEILNLTSELLQKCSSPAPGPGKEWEEYVQIRTLVEKI  
RKKQKGLSVTFDGKREDYFPDLMKWASENGASVEGFEMVNFKEEGFGLRATRDIKAEELF  
LWVPRKLLMTVESAKNSVLGPLYSQDRILQAMGNIALAFHLLCERASPNFQPYIQTLP  
SEYDTPLYFEEDVRYLQSTQAIHDVFSQYKNTARQYAYFYKVIQTHPHANKLPLKDSFT  
YEDYRWAVSSVMTRQNQIPTEDGSRVTAL IPLWDMCNHTNGLITTYNLEDDRCECVL  
QDFRAGEQIYIFYGTRSNAEFVIHSGFFDNNSHDRV KIKLGVSKSDRLYAMKAEVLARA  
GIPTSSVFALHFTPEPPI SAQLLAFLRVFCMTEEELKEHLLGDSAIDRIFTLGNSEFPVSW  
DNEVKLWTFLEDRASLLKTYKTTIEEDKSVLKNHDL SVRAKMAIKLRLGEKEILEKAVK  
SAAVNREYYRQMEEKAPLPKYEESNLGLESSVGDSRLPLVLRNLEEEAGVQDALNIRE  
AISKAKATENGLVNGENSIPNGTRSENE SLNQESKRAVEDAKGSSSDSTAGVKE

>sp|Q08648|SG11B\_HUMAN Sperm-associated antigen 11B OS=Homo sapiens GN=SPAG11B PE=2 SV=4

MRQRLPSVTSLLLVALLFPGSSQARHVNHSATEALGELRERAPGQGTNGFQLLRHAVKR  
DLLPRTPPYQVHISHREARGPSFRICVDFLGPRWARGCSTGN

>sp|O14492|SH2B2\_HUMAN SH2B adapter protein 2 OS=Homo sapiens GN=SH2B2 PE=1 SV=2

MNGAGPGPAAAAPVPVPVPDWRQFCELHAQAAAVDFAHKFCRFLRDNPAYDTPDAGAS  
FSRHFAANFLDVFGEVRRVLVAGPTTRGA AVSAEAMEPELADTSALKAAAPYGHSRSED  
VSTHAATKARVRKGFSLRNMSLCVVDGVRDMWHRRASPEPDAAAAPRTAEPRDKWTRRLR  
LSRTLAAKVELVDIQREGALRFMVADDAAGSGGSAQWQKCRLLLRRAVAEERFRLEFFV  
PPKASRPKVSIPLSAII EVRRTTMPEMPEKDNFTVLKVENGAEYILETIDSLQKHSWVAD  
IQGCVDPGDSEEDTELSCTRGGLASRVASCCELLTDAVDLPRPPETTAVGAVVTAPHS  
RGRDAVRESLIHVPLETFLQTLESPGGSGSDSNNTGEQGAETDPEAEPELELSDYPWFHG  
TLSRVKAQQLVLAGGPRNHGLFVIRQSETRPGEYVLT FNFGKAKHLRLSLNGHGQCHVQ  
HLWFQSVLDMLRHFHTHPIPLESGGSADITLRSYVRAQDPPPEPGPTPPAAPASPACWSD  
SPGQH YFSSLA AACPPASPSDAAGASSSSASSSSAASGPAPPRPVEGQLSARSRSNSAE  
RLLEAVAATAAEPEPEAAPGRARAVENQYSFY

>sp|Q9NR46|SHLB2\_HUMAN Endophilin-B2 OS=Homo sapiens GN=SH3GLB2 PE=1 SV=1

MDFNMKKLASDAGIFFTRAVQFTEEKFGQAEKTELDAHFENLLARADSTKNWTEKILRQT  
EVLLQPNPSARVEEFlyEKLDKRVPSRV TNGELLAQYMADAASELGPTTPYGKTLIKVAE  
AEKQLGAAERDFIHTASISFLTPLRNFLGDKWTISKERRLLQNRRLDL DACKARLKKAK  
AAEAKATTVPDFQETRPRNYILSASASALWNDEVDKAEQELRVAQTEFDRQAEVTRLLE  
GISSTHVNLRLCLHEFVKSQTTYAQCYRHMLDLQKQLGRFPGT FVGTTPEPASPLSSTS  
PTTAAATMPVPSVASLAPPGEASLCLEEVAPPASGTRKARVLYDYEAADSSSELALLADE  
LITVYSLPGMDPDWLIGERGKKGKVPVPTYLELLS

>sp|Q6ZSJ9|SHSA6\_HUMAN Protein shisa-6 homolog OS=Homo sapiens GN=SHISA6 PE=2 SV=2

MALRRLLLLLLLLSLESLDLLPSVHGARGRAANRTLSAGGAAVGGRRAGGALARGGRELNG  
TARAPGIPEAGSRRGQPAAAVAAAAAASAVTYETCWGYDVSQYDKEFECNNSESGYLYC  
CGTCYYRFCKKRHEKLDQRQCTNYQSPVWVQTPSTKVSPGPNKYDPEKDKNFTVYI  
TCGVIAFVIVAGVFAKVSYDKAHRPPREMNIHRALADILRQQGPIPIAHCERETISAIDT  
SPKENTPVRSSSKNHYPVRTAKQTEKPRMNNILTSATEPYDLFSRSFQNLHLPPSY  
ESAVKTNPSKYSSLKRLTDKEADEYYMRRRHLPDLAARGTLPLNVIQMSQQKPLPRERPR  
RPIRAMSQDRVLSRDLRGLPDEFMPYDRILSDEQLLSTERLHSQDPLLSPERTAFPEQSL  
SRAISHTDVFVSTPVLDRYRMSKMHSHPSASNNSYATLGQSQTAAKRHAFASRRHNTVEQ  
LHYIPGHHTCYTASKTEVT

>sp|Q9H4F1|SIA7D\_HUMAN Alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3-N-acetyl-  
galactosaminide alpha-2,6-sialyltransferase OS=Homo sapiens GN=ST6GALNAC4 PE=2 SV=2

MKAPGRLVLIILCSVFSVAVYILLCCWAGLPLCLATCLDHHFPTGSRPTVPGPLHFSGYS  
SVPDGKPLVREPCRSCAVVSSSGQMLGSGLGAEIDSAECVFRMNQAPTVGFEADVQGRST  
LRVVSHTSVPLLLRNYSHYFQKARDTLYMVWGQGRHMDRVLGGRTYRTLLQLTRMYPGLQ  
VYTFTERMMAVCDQIFQDETGNRRQSGSFLSTGWFTMILALELCEEIVVYGMVSDSYCR  
EKSHPSVPYHYFEKGRLDECQMYLAHEQAPRSAHRFITEKAVFSRWAKKRPIVFAHPSWR  
TE

>sp|Q6ZMC9|SIG15\_HUMAN Sialic acid-binding Ig-like lectin 15 OS=Homo sapiens GN=SIGLEC15  
PE=1 SV=1

MEKSIWLLACLAWLPTGSFVRTKIDTTENLLNTEVHSSPAQRWSMQVPPEVSAEAGDAA  
VLPCTFTHPHRHYDGLPTAIWRAGEPYAGPQVFRCAAARGSELCTALSLHGRFRLGNP  
RRNDLSLRVERLALADDRRYFCRVEFAGDVHDRYESRHGVRLHVTAAPRIVNISVLPSPA  
HAFRALCTAEGEPPALAWSGPALGNSLAAVRSPPREGHGLVTAELPALTHDGRYTCTAA  
NSLGRSEASVYLFRFHGASGASTVALLLGGALGFKALLLLGVLAARAARRRPEHLDTPTDP  
PRSQAQESNYENLSQMNPRSPPTMCSP

>sp|P57059|SIK1\_HUMAN Serine/threonine-protein kinase SIK1 OS=Homo sapiens GN=SIK1 PE=1  
SV=2

MVIMSEFSADPAGQGQGGQKPLRVGFYDIERTLGKGNFAVVKLARHRVTKTQVAIKIIDK  
TRLSSNLEKIYREVQLMKLLNHPHIKLYQVMETKDMLYIVTEFAKNGEMFDYLTSGNH  
LSENEARKKFQWILSAVEYCHDHHIVHRDLKTENLLLDGNMDIKLADFGFGNFYKSGEPL  
STWCGSPPYAAPEVFEGKEYEGPQLDIWSLGVVLYVLVCGSLPFDGPNLPTLRQRVLEGR  
FRIPFFMSQDCESLIRRMVLVDPARRITIAQIRQHRWMRAEPCLPGPACPAFSAHSYTSN  
LGDYDEQALGIMQTLGVDRQRTVESLQNSSYNHFAAIYYLLERLKEYRNAQCARPGP  
QPRPRSSDLGLEVPEGLSTDPFRPALLCPQPQLVQSVLQAEMDCELQSSLQWPLFFP  
VDASCSGVFRPRVPSPSSLLDTAISEEARQGPGLLEEQDTQESLPSSTGRRHTLAEVSTR  
LSPLTAPCIVVSPSTTASPAEGTSSDCLTFSASKSPAGLSGTPATQGLLGACSPVRLAS  
PFLGSQSATPVLQAQGLGAVLLPVSFQEGRRASDTSLTQGLKAFRQQLRKTTRTKGFL  
GLNLIKGLARQVCQAPASRASRGLSPFHAPAQSPGLHGGAAGSREGWSLLEEVLEQQRL  
LQLQHHPAAAPGCSQAPQAPAPFVIAPCDGPGAAPLPSTLLTSGPLLPPLPPLQTGASP  
VASAAQLLDTHLHIGTGPTALPAVPPRLARLAPGCEPLGLLQGDCEMEDLMPCSLGTFV  
LVQ

>sp|A8MWD9|RUXGL\_HUMAN Putative small nuclear ribonucleoprotein G-like protein 15 OS=Homo  
sapiens GN=SNRPGP15 PE=5 SV=2

MSKAHPPELKKFTDKKFSKLNGGRHVQGILRGFDPFMNLVIDECVEMATSGQKNIGMV

EIRGNSIIMLEALERV

>sp|P62306|RUXF\_HUMAN Small nuclear ribonucleoprotein F OS=Homo sapiens GN=SNRPF PE=1 SV=1

MSLPLNPKPFLNGLTGKPMVKLKWGMEYKGYLVSDGYMNMQLANTEEYIDGALSGHLG  
EVLIRCNNVLYIRGVVEEEEDGEMRE

>sp|Q9UIY3|RWD2A\_HUMAN RWD domain-containing protein 2A OS=Homo sapiens GN=RWDD2A PE=1 SV=1

MSASVKESLQLQLLEMEMLFMSFPNQGEVKLEDVNALTNIKRYLEGTREALPPKIEFVIT  
LQIEEPKVKIDLQVTMPHSYPYVALQLFGRSSELDHRHQQLLNKGLTSYIGTFDPGELCV  
CAAIQWLQDNSASYFLNRKLVYEPSTQAKPVKNTFLRMWIYSHHIYQQDLRKKILDVGKR  
LDVTGFCMTGKPGIICVEGFKEHCEEFWHTIRYPNWKHISCKHAESVETEGNGEDLRLFH  
SFEELLLEAHGDYGLRNDYHMLNGQFLEFLKKHSEHVFQILFGIESKSSDS

>sp|Q9H446|RWDD1\_HUMAN RWD domain-containing protein 1 OS=Homo sapiens GN=RWDD1 PE=1 SV=1

MTDYGEEQRNELEALESIYPDSFTVLSNPSTTITVTSEAGENDETQTTLKFTYSEKY  
PDEAPLYEIFSQENLEDNDVSDILKLLALQAEENLGMVMIFTLVTAVQEKLNEIVDQIKT  
RREEKKKQKEKEAEAEKQLFHGTPVTIENFLNWKAKFDAELLEIKKKRMKEEQAGKNK  
LSGKQLFETDHNLDTSDIQFLEDAGNNVEVDESLEFQEMDDLEDEDDPDYNPADPESD  
SAD

>sp|Q6NW29|RWDD4\_HUMAN RWD domain-containing protein 4 OS=Homo sapiens GN=RWDD4 PE=1 SV=3

MSANEDQEMEALRSIYEGDESFRELSPVSFQYRIGENGDPKAFLEISWTETYPQTPP  
ILSMNAFFNNTISSAVKQSILAKLQEAVEANLGTAMTYTLFEYAKDNKEQFMENHNPINS  
ATISINII SIETPNTAPSSKKKDKKEQLSKAQKRKLADKTDHKGELPRGWNWVDVVKHLS  
KTGSKDDE

>sp|P25815|S100P\_HUMAN Protein S100-P OS=Homo sapiens GN=S100P PE=1 SV=2

MTELETAMGMIIDVFSRYSSEGSTQTLTKGELKVLMEKELPGFLQSGKDKDAVDKLLKD  
LDANGDAQVDFSEFIVFAAITSACHKYFEKAGLK

>sp|P06702|S10A9\_HUMAN Protein S100-A9 OS=Homo sapiens GN=S100A9 PE=1 SV=1

MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIE  
HIMEDLDTNADKQLSFEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP

>sp|P31949|S10AB\_HUMAN Protein S100-A11 OS=Homo sapiens GN=S100A11 PE=1 SV=2

MAKISSPTETERCIESLIAVFQKYAGKDGNYTLTKTEFLSFMNTELAFTKNQKDPGVL  
DRMMKKLDTNSDGQLDFSEFLNLIGGLAMACHDSFLKAVPSQKRT

>sp|O95977|S1PR4\_HUMAN Sphingosine 1-phosphate receptor 4 OS=Homo sapiens GN=S1PR4 PE=1 SV=1

MNATGTPVAPESCQQLAAGGHSRLIVLHYNHSGRLAGRGGPEDGGLGALRGLSVAASCLV  
VLENLLVLAAITSHMRSRRWVYCLVNITLSDLLTGAAYLANVLLSGARTFRLAPAQWFL  
REGLLFTALAASTFSLFTAGERFATMVRPVAESGATKTSRVYGFIGLCWLLAALLGMLP  
LLGWNCCLAFDRCSLLPLYSKRYILFCLVIFAGVLATIMGLYGAIFRLVQASGQKAPRP  
AARRKARRLLKTVLMILLAFVCWGPLFGLLLADVFGSNLWAQEYLRGMDWILALAVLNS  
AVNP IIYSFRSREVCRAVL SFLCCGCLRLGMRPGDCLARAVEAHSGASTTDSSLRPRDS  
FRGSRSLSFRMREPLSSISSVRSI

>sp|P48065|S6A12\_HUMAN Sodium- and chloride-dependent betaine transporter OS=Homo sapiens GN=SLC6A12 PE=1 SV=2

MDGKVAVQECGPPAVSWVP EEGEKLDQEDEDQVKDRGQWTNKMEFVLSVAGEIIGLGNVW

RFPYLCYKNGGGAFFIPYFIFFFVCGIPVFFLEVALGQYTSQGSVTAWRKICPLFQGIGL  
ASVVIESYLNYYYIIILAWALFYLFSSFTSELPWTTCNNFWNTEHCTDFLNHSGAGTVTP  
FENFTSPVMEFWERRVLGITSGIHDLGSLRWELALCLLLAWVICYFCIWKGVKSTGKVY  
FTATFPYMLVLILLIRGVTLPAYQGIYYLKPDLFRLKDPQVWMDAGTQIFFSFAICQG  
CLTALGSYNKYHNNCYKDCIALCFLNSATSFVAGFVVFSILGFMSQEQGVPISEVAESGP  
GLAFIAFPKAVTMMPLSQLWSCLFFIMLIFLGLDSQFVCVECLVTASIDMFPRQLRKSGR  
RELLILTIAVMCYLIGLFLVTEGGMYIFQLFDYASSGICLLFLSLFEVVCISWVYGADR  
FYDNIEDMIGYRPWPLVKISWLFLTPGLCLATFLFSLSKYTPLKYNNVYVYPPWGYSIGW  
FLALSSMVCVPLFVVITLLKTRGPFKRRLRQLITPDSSLPQPKQHPCLDGSAGRNFGPSP  
TREGLIAGEKETHL

>sp|Q9NP91|S6A20\_HUMAN Sodium- and chloride-dependent transporter XTRP3 OS=Homo sapiens  
GN=SLC6A20 PE=1 SV=1

MEKARPLWANSLQVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLY  
LELAVGQRMQRGSIGAWRTISPYLSGVGVASVVVSFFLSMYNVINAWAFWYLFHSFQDP  
LPWSVCPLNGNHTGYDEECEKASSTQYFWYRKTLNISPSLQENGGVQWEPALCLLLAWLV  
VYLCILRGTESTGKVYFTASLPYCVLIYYLIRGLTLHGATNGLMYMFTPKIEQLANPKA  
WINAATQIFFSLGLGFGSLIAFASYNEPSNQCQKHAIIVSLINSFTSIFASIVTFSIYGF  
KATFNYENCLKKVSLLLNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSL  
ESELDTAVQGTGLAFIVYTEAIKNMEVSQLWSVLYFFMLMLGIGSMLGNTAAILTPLTD  
SKIISSHLPKEAISGLVCLVNCAIGMVFTMEAGNYWFDIFNDYAATLSLLLIVLVETIAV  
CYVYGLRRFESDLKAMTGRAVSWYWKVMWAGVSPLLIVSLFVYLSDYILTGTLYQAWD  
ASQGQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADPVA

>sp|P35542|SAA4\_HUMAN Serum amyloid A-4 protein OS=Homo sapiens GN=SAA4 PE=1 SV=2

MRLFTGIVFCSLVMGVTSESWSRFFKEALQGVGDMGRAYWDIMISNHQNSNRYLYARGNY  
DAAQRGPGGVAAKLISRSRVYLQGLIDCYLFGNSSTVLEDSKSNEKAEWGRSGKDPDR  
FRPDGLPKKY

>sp|Q9Y2H2|SAC2\_HUMAN Phosphatidylinositide phosphatase SAC2 OS=Homo sapiens GN=INPP5F  
PE=1 SV=3

MELFQAKDHYILQQGERALWCSRRDGGLQLRPATDLLLAWNPICLGLVEGVIGKIQHSD  
LPWWLILIRQKALVGKLPGDHEVCKVTKIAVLSLSEMEPQDLELELCKKHHFGINKPEKI  
IPSPDDSKFLKFTTHIKSNVSAPNKKVKESKEKEKLERRLLELLKMFMDSESFYYSL  
TYDLTNSVQRQSTGERDGRPLWQKVDDRFFWNKYMIQDLTEIGTPDVFWDIIPMIQGFVQ  
IEELVVNYTESDDEKSSPETPPQESTCVDDIHPRFLVALISRSRHRAGMRYKRRGVDK  
NGNVANYVETEQLIHVHNHTLSFVQTRGSVPVFWVSQVGYRYNPRRLDRSEKETVAYFCA  
HFEEQLNIYKKQVIINLVDQAGREKIGDAYLKQVLLFNNSHLTYVSFDFHEHCRGMKFE  
NVQTLTDAIYDIILDMKWCWDEAGVICKQEGIFRVNCDCLDRNTNVQAAIARVVMQQ  
LKKLGVMPEQPLPVKCNRIYQIMWANNGDSISRQYAGTAALKGDFTRTGERKLAGVMKD  
GVNSANRYYLNRFKDAYRQAVIDLMQGIPVTEDLYSIFTKEKEHEALHKENQRSHQELIS  
QLLQSYMKLLLPDDEKFHGGWALIDCDPSLIDATHRDVDVLLLLSNSAYYVAYYDDEVK  
VNQYQRLSLENLEKIEIGPEPTLFGKPKFSCMRLHYRYKEASGYFHTLRVMRNPEEDGK  
DTLQCIAEMLQITKQAMGSDLPIIEKKLERKSSKPHEDIIGIRSQNQGSQAQGNFLMSK  
FSSLNQKVKQTKSNVIGNLRKLGNTKPEMKVNFLKPNLKVNLWKSDDSLETMENTGVM  
DKVQAESDGMSSDNDYSHSDEFLTNSKSDERQLANSLESVGPIDYVLPSCGIIASAPR  
LGSRSQSLSTDSSVHAPSEITVAHSGSLGKGQESPLKKSPSAGDVHILTGFAKPMDIYC

HRFVQDAQNKVTHLSETRSVSQASQERNQMTNQVSNETQSESTEQTPSRPSQLDVSLSA  
TGPQFLSV EPAHSVASQKTPTSASSMLELETGLHVTPSPSESSSSRAVSPFAKIRSSMVQ  
VASITQAGLTHGINFAVSKVQKSPPEPEIINQVQQNELKKMFIQCQTRIIQI

>sp|Q96HN2|SAHH3\_HUMAN Adenosylhomocysteinase 3 OS=Homo sapiens GN=AHCYL2 PE=1 SV=1

MSVQVVSAAAAKVPEVELKDLSPSEAESQLGLSTAAVGAMAPPAGGGDPEAPAPAAERP  
PVPGPSGPAAALSPAAGKVPQASAMKRSDPHHQHQRHRDGG EALVSPDGTVTEAPRTVK  
KQIQFADQKQEFNKRP TKIGRRSLRSISQSSTDSYSSAASYTDSDDETS PRDKQKNS  
KGSSDFCVKNIKQAEFGREIEIEAEQEMPALMALRKRAQGEKPLAGAKIVGCTHITAQTA  
VLMETLGA LGAQCRWAACNIYSTLNEVAAAALAESGFPVFAWKGESEDDFWWCIDRCVNVE  
GWQPNMILDDGGDLTHWIYKKYPNMFKIKGIVEESVTGVHRLYQLSKAGKLCVPAMNVN  
DSVTKQKFDNLYCCRESILDGLKRTTDMMFGGKQVVVCGYGEVGKGCCAALKAMGSIVYV  
TEIDPICALQACMDGFRLVKLNEVIRQVDIVITCTGNKNVVTREHLDRMKNSCIVCNMGH  
SNTEIDVASLRTPELTWERVRSQVDHVIWPDGKRIVLLAEGRLNLSCSTVPTFVLSITA  
TTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPTFDAHLTEL TDEQAKYLGLNK  
NGPFKPNYYRY

>sp|075995|SASH3\_HUMAN SAM and SH3 domain-containing protein 3 OS=Homo sapiens GN=SASH3  
PE=1 SV=2

MLRRKPSNASEKEPTQKKKLSLQRSSSFKDFAKSKPSSPVVSEKEFNLDNIPEDDSGVP  
TPEDAGKSGKKLGKKWRAVISRTMNRKMGKMMVKALSEEMADTLEEGSASPTSPDYSLDS  
PGPEKMALAFSEQEEHELPVLSRQASTGSELCSPPSGSGSFG EEPAPQYTGPF CGRARV  
HTDFTSPSYDHDLSLKLQKGDVIQIIEKPPVGTWLGLLNGKVG SFKFIYVDVLP EEAVGHA  
RPSRRQSKGKRPKPKTLHELLERIGLEEHTSTLLLNGYQTLEDFKELRETHLNELNIMDP  
QHRAKLLTAAELLLDYDTGSEEAEEGAESSQEPVAHTVSEPKVDIPRDSGCFEGSESGRD  
DAELAGTEEQLQGLSLAGAP

>sp|Q8IYX7|SAXO1\_HUMAN Stabilizer of axonemal microtubules 1 OS=Homo sapiens GN=SAXO1  
PE=1 SV=2

MKTKCICELCSCGRHHCPHLPTKIYDKTEKPCLLSEYTENYPFYHSYLPRESFKPRREYQ  
KGPIPMEGLTTSRRDFGPHKVPVKVHQYDQFVPSEENMDLLTTYKKDYNYPVPCRVDPI  
KPRDSKYPCSDKMECLPTYKADYLPWNQPRREPLRLEHKYQPASVRFDNRTHQDDYPIK  
GLVKTISCKPLAMPKLCNIPLDVTNYKMSYVAHPVEKRFVHEAEKFRPCEIPFESLTTQ  
KQSYRGLMGEPASLSKLARPPGLDMPFCNTTEFRDKYQAWPMPRMFSKAPITYVPPEDR  
MDLLTTVQAHYTCPGAPAQSCR PALQIKKCGRFEGSSTTKDDYKQWSSMRTEPVKVPVQ  
LDLPTEPLDCLTTTRAHYVPHLPINTKSCKPHWSGPRGNVPVESQTTYTISFTPKEMGRC  
LASYPEPPGYTFEEVDALGHRIYKPVSQAGSQSSHLSVDDSENPNQRELEVLA

>sp|Q6UWP8|SBSN\_HUMAN Suprabasin OS=Homo sapiens GN=SBSN PE=1 SV=2

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AGREVEKVFNGLSNMGSH TGKELDKGVQGLNHGMDKVAHEINHGIGQAGKEAEKLG HGVN  
NAAGQVGKEADKL IHHGVHHGANQAGSEAGFGQGVDNAAGQAGNEAGRFGQGVHHAAGQ  
AGNEAGRFGQGVHHAAGQAGNEAGRFGQGAHHGLSEGWKETEFKGQGIHHAAGQVGKEAE  
KFGQGAHHAAGQAGNEAGRFGQGVHHGLSEGWKETEFKGQGVHHTAGQVGKEAEKFGQGA  
HHAAGQAGNEAGRFGQGAHHAAGQAGNEAGRFGQGVHHGLSEGWKETEFKGQGVHHAASQ  
FGKETEKLG HGVHHGVNEAWKEAEKFGQGVHHAASQVGKEEDRVVQGLHHGV SQAGREAG  
QFGHDIHHTAGQAGKEGDI AVHGVQPGVHEAGKEAGQFGQGVHHTLEQAGKEADKAVQGF  
HTGVHQAGKEAEKLGQGVNHAADQAGKEVEKLGQGAHHAAGQAGKELQNAHNGVNQASKE

ANQLLNGNHQSGSSSHQGGATTTPLASGASVNTPFINLPALWRSVANIMP

>sp|Q96JE7|SC16B\_HUMAN Protein transport protein Sec16B OS=Homo sapiens GN=SEC16B PE=1 SV=2

MELWAPQRLPQTRGKATAPSKDPDRGFRRDGHHRPVPHSWHNGERFHQWQDNRGSPQPQQ  
EPRADHQQQPHYASRPGDWHQPVSGVDYYEGGYRNQLYSRPGYENSYQSYQSPTMREEYA  
YGSYYYHGHQPWLQEERVPRQRSFYIWHEDYREQKYLDEHHYENQHSPFGTNSETHFQSN  
SRNPCKDSPASNSGQEWPGELFPGSLLAEAQKNKPSLASESNLLQQRESGLSSSSYELSQ  
YIRDAPERDDPPASAAWSPVQADVSSAGPKAPMKFYIPHVPVSFGPGGQLVHVGPSSPTD  
GQAALVELHSMEVILNDSEEQEEMRSFSGPLIREDVHKVDIMTFCQQKAAQCKSETLGS  
RDSALLWQLLVLLCRQNGSMVGS DIAELMQDCKKLEKYKRQPPVANLINLTDEDWPVLS  
SGTPNLLTGEIPPSVETPAQIVEKFTRLLYYGRKKEALEWAMKNHLWGHALFLSSKMDPQ  
TYSWVMGFTSTLALNDPLQTLFQLMSGRIQAATCCGEKQWGDWRPHLAVILSNQAGDP  
ELYQRAIVAIGDTLAGKGLVEAAHFCYLMHVFPFGHYTVKTDHLVLLGSSHSQEFLKFAT  
TEAIQRTEIFEYQMLGRPKSFIPSFQVYKLLYASRLADYGLVSQALHYCEAIGAAVLSQ  
GESSHPVLLVELIKLAEKLLSDPLVLERRSGDRDLEPDWLAQLRRQLEQKVAGDIGDPH  
PTRSDISGAGGTTTENTFYQDFSGCQGYSEAPGYRSALWLTPEQTCLLQPSQPQPFPLQP  
GSYPAGGGAGQTGTPRPFYSVPETHLPGTGSSVAVTEATGGTVWEEMLQTHLGPAGENTVS  
QETSQPPDGQEVISKPQTPLAARPRISSESSASSAKEDEKESSEADKNSPRNTAQRGKL  
GDGKEHTKSSGFGWFSWFRSKPTKNASPAGEDESSDSPDSEETPRASSPHQAGLGLSLTP  
SPESPPLPDVSAFSRGRGGGEGRGSASSGAAAAGAGVGGLSGPESVSFELCSNPGVLLPP  
PALKGAVPLYNPSQVPQLPTATSLNRPNRLAQRRYPTQPC

>sp|Q15436|SC23A\_HUMAN Protein transport protein Sec23A OS=Homo sapiens GN=SEC23A PE=1 SV=2

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CSRTTCRAVLNPLCQVDYRAKLWACNFCYQRNQFPFSYAGISELNQPAELLQFSSIEYV  
VLRGPMPLIFLYVVDTCMEDEDLQALKESMQMSLSLLPPTALVGLITFGRMVQVHELGC  
EGISKSYVFRGTDLSAKQLQEMGLSKVPLTQATRGPVQVQPPPSNRFLQPVQKIDMNL  
TDLLGELQRDPWPVPQGKRPLRSSGVALSIAVGLLECTFPNTGARIMMFIGGPATQGPGM  
VVGDELKTPIRS WHDIDKDNAKYVKGTKHFEALANRAATTGHVIDIYACALDQTGLLEM  
KCCPNLTGGYVMGDSFNSTLQKQTFQRVFTKDMHGQFKMGFGGTLEIKTSREIKISGAI  
GPCVSLNSKGPCVSENEIGTGGTCQWKICGLSPTTTLAIYFEVNVQHNAPIQGGRGAIQ  
FVTQYQHSSGQRRIRVTTIARNWADAQTQIQNTAASFDQEAAILMARLAIYRAETEEGP  
DVLRLWDRQLIRLCQKFGEYHKDDPSSFRFSETFSLYPQFMFHLRRSSFQVFNNSPDES  
SYRRHHFMRQDLTQSLIMIPIYAYSFSGPPEPVLLDSSSILADRILLMDTFFQILIYH  
GETIAQWRKSGYQDMPEYENFRHLLQAPVDDAQEILHSRFPMPRYIDTEHGGSQARFLLS  
KVNPSQTHNNMYAWGQESGAPILTDVSLQVFMHLLKLA VSSAA

>sp|P53992|SC24C\_HUMAN Protein transport protein Sec24C OS=Homo sapiens GN=SEC24C PE=1 SV=3

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RAPSSGAPPASTAQAPCGQAAYQGFGQGDVQNGPSSTVQMQRLPQSQPFQSPLAPVGNQ  
PPVLQPYGPPPTSAQVATQLSGMQISGAVAPAPPSSGLGFGPPTSLASASGSFPNSGLYG  
SYPQGGAPPLSQAQGHPIQTPQRSAPSQASSFTPPASGGPRLPSMTGPLLPQGQSFGGPS  
VSQPNHVSSPPQALPPGTQMTGPLPLPMHSPQQPGYQPPQNGSFGPARGPQSNYGGPY  
PAAPTFGSQGPPQPLPPKRLDPDAIPSPIQVIEDDRNNRGTEPFVTGVRGQVPPPLVTN

FLVKDQGNASPRYIRCTSYNIPCTSDMAKQAQVPLAAVIKPLARLPPEEASPYVVDHGES  
GPLRCNRCKAYMCPFMQFIEGGRRFQCCFCSCINDVPPQYFQHL DHTGKRVDAYDRPELS  
LGSYEFLATVDYCKNNKFPSPPAFIFMIDVSYNAIRTGLVRLCEELKSLLDFLPREGGA  
EESAIRVGFVTYNKVLHFYNVKSSLAQPQMMVSDVADMVPLLDGFLVNVNESRAVITS  
LLDQIPEMFADTRETETVFVPVIQAGMEALKAAECAGKFLFHTSLPIAEAPGKLKNRDD  
RKLINTDKEKTLFQPQTGAYQTLAKECVAQGCCVDLFLFPNQYVDVATLSVVPQLTGGSV  
YKYASFQVENDQERFLSDLRRDVQKVVGFDVAVMRVRTSTGIRAVDFFGAFYMSNTTDVEL  
AGLDGDKTVTVEFKHDDRLNEESGALLQCALLYTSCAGQRRRIHNLALNCCTQLADLYR  
NCETDTLINYMAKFAYRGVLNSPVKAVRDTLITQCAQILACYRKNCASPSSAGQLILPEC  
MKLLPVYLVNCLVKSVDLQPGA EVTDDRAYVRQLVTSMDVTETNVFFYPRLPLTKSPVE  
STTEPPAVRASEERLSNGDIYLLENLNLFVWVGASVQQGVVQSLFSVSSFSQITSGLSV  
LPVLDNPLSKKVRGLIDSLRAQRSRYMKLTVVKQEDKMEMLFKHFLVEDKSLSGGASYVD  
FLCHMHKEIRQLLS

>sp|094979|SC31A\_HUMAN Protein transport protein Sec31A OS=Homo sapiens GN=SEC31A PE=1 SV=3

MKLKEVDRTAMQAWSPAQNHPYIYLATGTSAQQLDATFSTNASLEIFELDLSDPSLDMKSC  
ATFSSSHRYHKLWGPYKMSKGDVSGVLIAGGENGNIILYDPSKIIAGDKEVVIAQNDK  
HTGPPRALDVNIFQTNLVASGANESIYIIDLNNFATPMTPGAQTQPPEDISCIAWNRRQV  
QHILASASPSGRATVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDVATQMVLA SEDDRLPV  
IQMWDLRFASSPLRVLENHARGILAIASMSADPELLSCGKDAKILCSNPNTGEVLYELP  
TNTQWCFDIQWCPRNPVLSAASFGRISVYSIMGGSTDGLRQKQVDKLSSSFGNLD PFG  
TGQPLPPLQIPQQT AQHSIVLPLKKPPKWIRRPVGASFSGGKLVTFENVRMP SHQGA EQ  
QQQQHHVFISQVTEKEFLSRSDQLQAVQSQGFINYCQKKIDASQTEFEKNVWSFLKVN  
FEDDSRGKYLELLGYRKEDLGKKIALALNKVDGANVALKDSQVAQSDGEESPA AEEQLL  
GEHIKEEKEESEFLPSSGGTFNISVSGDIDGLITQALLTGNFESA VDLCLHDNRMADAI  
LAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALAAVLT YA  
KPDEFSALCDLLGTRLENGDSSLQTQACLCYICAGNVEKLVACWTKAQD GSHPLSLQDL  
IEKVVILRKAVQLTQAMDTSTVGVLAAKMSQYANLLAAQGSIAAALAFLPDNTNQP NIM  
QLRDLRCRAQGEPVAGHESPKIPYEKQQLPKGRPGPVAGHHQMPRVQTQQYYPHGENPPP  
PGFIMHG NVNPNAAGQLPTSPGHMHTQVPPYPQPYPQPAQPYPFGTGGSAMYRPQQPVA  
PPTSNAYPNTPYISSASSYTGQS QLYAAQHQA SSPTSSPATSFPPPPSSGASFQHGGPGA  
PPSSSAYALPPGTGTLPAASEL PASQRTGPQNGWNDPPALNRVPK KKKMPENFMPPVPI  
TSPIMNPLGDPQS QMLQQQPSAPVPLSSQSSFQPHLPGGQPFHGVQQPLGQTGMPPSFS  
KPNIEGAPGAPIGNTFQH VQSLPTKKITKKPIPDEHLILKTTFEDLIQRCLSSATDPQTK  
RKLDDASKRLEFLYDKLREQTL SPTITSGLHNIARSIETRNYSEGLTMHTHIVSTSNFSE  
TSAFMPVLKVVL TQANKLGV

>sp|075845|SC5D\_HUMAN Lathosterol oxidase OS=Homo sapiens GN=SC5D PE=1 SV=2

MDLVLRVADYYFFTPYVYPATWPEDDIFRQAISLLIVTNV GAYILYFFCATLSYYFVFDH  
ALMKHPQFLKNQVRREIKFTVQALPWISILTVALFLEIRGYSKLHDDLGEFPYGLFELV  
VSIISFLFFTDMFIYWIHRLHHLVYKRLHKPHHIWKIPTPFASHAFHPIDGFLQSLPY  
HIYPFIFPLHKVVYLSLYILVNIWTISIHDGDFRVPQILQPFINGSAHHTDHHMFFDNY  
GQYFTLWDRIGGSFKNPSSFEGKGPLSYVKEMTEGKRSSHSGNGCKNEKLFNGEFTKTE

>sp|P60059|SC61G\_HUMAN Protein transport protein Sec61 subunit gamma OS=Homo sapiens GN=SEC61G PE=1 SV=1



MDQVMQFVEPSRQFVKDSIRLVKRCTKPDRKEFQKIAMATAIGFAIMGFIGFFVKLIHIP  
INNIIVGG

>sp|Q01959|SC6A3\_HUMAN Sodium-dependent dopamine transporter OS=Homo sapiens GN=SLC6A3  
PE=1 SV=1

MSKSKCSVGLMSSVVAPAKEPNAVGPKEVELILVKEQNGVQLTSSTLTNPRQSPVEAQDR  
ETWGGKIDFLLSVIGFAVDLANVWRFPYLCYKNGGGAFLVPYLLFMVIAGMPLFYMELAL  
GQFNREGAAGVWKICPILKGVGFTVILISLYVGFFYNVIAWALHYLFSSFTTELPWIHC  
NNSWNSPNCSDAHPGDSSGSSGLNDTFGTTPAAEYFERGVLHLHQSHGIDDLGPPRWQL  
TACLVLVIVLLYFSLWKGVKTSKGVVWITATMPYVVL TALLLRGVTLPGAIDGIRAYLSV  
DFYRLCEASVWIDAATQVCFSLVGVGVLIAFSSYNKFTNNCYRDAIVTTSINSLTSFSS  
GFVVSFSLGYMAQKHSVPIGDVAKDGPGLIFIIYPEAIATLPLSSAWAVVFFIMLLTLGI  
DSAMGMESVITGLIDEFQLLHRHRELFTLFIVLATFLLSLFCVTNGGIYVFTLLDHFAA  
GTSILFGVLIEAIGVAWFYGVGGFSSDDIQMTGQRPSLYWRLCWKLVSFCFLLFVVVSI  
VTFRPPHYGAYIFPDWANALGWVIATSSMAMVPIYAAYKFCSLPGSFREKLAYAIAPKED  
RELVDGRGEVRQFTLRHWLKV

>sp|Q8N9R8|SCAI\_HUMAN Protein SCAI OS=Homo sapiens GN=SCAI PE=1 SV=2

MVRGARQPQQPRSLAPRLTGTVEKPPRRRSRTEFALKEIMSSGGAEDDIPQGERKTVT  
DFCYLLDKSKQLFNGLRDLPPYGGKQWQSYFGRTFDVYTKLWKFFQQHRQVLDNRYGLKR  
WQIGEIASKIGQLYHYHLRTSETSYLNEAFSFYSAIRQRSYYSQVNKEDRPELVKKLR  
YYARFIVVCLLLNKMDVVKDLVKELSDEIEDYTHRFNTEDQVEWNLVLQEVAAFIEADPV  
MVLNDDNTIVITSNRLAETGAPLLEQGMIVGQLSLADALIIGNCANNQVKFSELTVDMMFRM  
LQALEREPMNLASQMNKPGMQESADKPTRRENPHKYLLYKPTFSQLYTFLAASFKELPAN  
SVLLIYLSATGVFPTGRSDSEGPYDFGGVL TNSNRDIINGDAIHKRNQSHKEMHCLHPGD  
LYPFTRKPLFIIVDSSNSVAYKNFTNLFGQPLVCLLSPTAYPKALQDQSQRGSLFTLFLN  
NPLMAFLFVSGLSSMRRLWEKQCQEYLRKINRDIAQLLTHSRSIDQAFLQFFGDEFRLRL  
LTRFIFCSATMRMHKIFRETRNPESYPQLPRDETVENPHLQKHILELASILDVRNVFFE  
NTIDDY

>sp|Q99250|SCN2A\_HUMAN Sodium channel protein type 2 subunit alpha OS=Homo sapiens  
GN=SCN2A PE=1 SV=3

MAQSVLVPPGPDSEFRFFFTRESLAAIEQRIAEKAKRPKQERKDEDDENGPKPNSDLEAGK  
SLPFIYGDIPPEMVSVPLEDLPYYINKKTFIVLNKGKAI SRFSATPALYILTPFNPIRK  
LAIKILVHSLFNMLIMCTILTNCVFMTMSNPPDWTKNVEYTFGTIYTFESLIKILARGFC  
LEDFTFLRDPWNWLDFTVITFAYVTEFVDLGNVSALRTFRVLRALKTISVIPGLKTIVGA  
LIQSVKKLSVDMILTVFCLSVFALIGLQLFMGNLRNKCLQWPPDNSSFEINITSFFNNSL  
DGNGTTFNRTVSIFNWDEYIEDKSHFYFLEGQNDALLCGNSSDAGQCPEGYICVKAGRNP  
NYGYTSFDTFSWAFLSLFRLMTQDFWENLYQLTLRAAGKTYMIFVVLVIFLGSFYLINLI  
LAVVAMAYEEQNQATLEEAEQKEAEFQQMLEQLKKQEEAQAAAAAASAESRDFSGAGGI  
GVFSESSSVASKLSSKSEKELNNRRKKKKQKEQSGEEKNDRVRKSESEDSIRRKGRFSS  
LEGSRLTYEKRFSSPHQSLLSIRGSLFSRRNSRASLSFRGRAKDIGSENDFADEHST  
FEDNDSRRDLSLVPHRHGERHNSVNSQASRASRVLPILPMNGKMHSVDCNGVVS LVGGP  
STLTSAGQLLPEGTTTETEIRKRRSSSYHVSMDLLEDPTSQRAMSIASILTNTMEELEE  
SRQKCPPCWYKFANMCLIWDCCKPWLKVHVLN LVMDPFVDLAITICIVLNTLFMAMEH  
YPMTEQFSSVLSVGNLVFTGIFTAEMFLKIIAMDPIYYYFQEGWNIFDGFIVSLSLMELGL  
ANVEGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGM

QLFGKSYKECVCKISNDCELPRWHMHDFHSLIVFRVLCGEWIETMWDCEVAGQTMCL  
TVFMMVMVIGNLVVLNLFALLSSFSNDLAATDDDNEMNNLQIAVGRMQKGIDFVKRK  
IREFIQKAFVRKQKALDEIKPLEDLNNKKDSCISNHTTIEIGKDLNLYKDGNGTTSIGS  
SVEKYVDESDFYMSFINNPSLTVTPIAVGESDFENLNTTEFSSESMEESKEKLNATSS  
SEGSTVDIGAPAEGEQPEVEPEESLEPEACFTEDCVRKFKCCQISIEEGKGKLWWNLTKT  
CYKIVEHNWFETFIIVFMILLSSGALAFEDIYIEQRKTIKTMLEYADKVFTYIFILEMLLK  
WVAYGFQVYFTNAWCWLDLFLIVDVSLVSLTANALGYSELGAIKSLRTLRLRPLRALSRL  
EGMRVVNALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYHCINYYTGEMFDVSVV  
NNYSECKALIESNQATARWKNVKNVFDNVGLGYLSLLQVATFKGWMIMYAAVDSRNVELQ  
PKYEDNLYMYLYFVIFIIFGSFFTLNLFIVIIDNFNQKKKFGGQDIFMTEEKKKYNA  
MKKLGSKKPQKPIPRPANKFQGMVDFVTKQVFDISIMILICLNMVTMMVETDDQSQEMT  
NILYWINLVFIVLFTGECVLKILSLRYYYFTIGWNIFDFVVLIVGMFLAELIEKYFV  
SPTLFRVIRLARIGRILRLIKGAKGIRTLFALMMSLPALFNIGLLLFLVMFIYAIFGMS  
NFAYVKREVGIDDMFNFETFGNSMICLFQITTSAGWDGLLAPILNSGPPDCDPKDHDPGS  
SVKGDGCGNPSVGIFFFVSYIIISFLVVVNMVIAVILENFSVATEESAEPLEDDFEMFYE  
VWEKFDPDATQFIEFAKLSDFADALDPLLIAKPNKVQLIAMDLPMVSGDRIHCLDILFA  
FTKRVLGESGEMDALRIQMEERFMASNPVKVSYEPITTLKRKQEEVSAIIIQRAYRRYL  
LKQVKVKVSSIIYKKDKGKECDGTPIKEDTLIDKLNENSTPEKTDMPSTTSPPSYDSVTK  
PEKEKFEKDKSEKEDKGKDIRESKK

>sp|O60939|SCN2B\_HUMAN Sodium channel subunit beta-2 OS=Homo sapiens GN=SCN2B PE=1 SV=1  
MHRDAWLPRPAFSLTGLSLFFSLVPPGRSMEVTPATLNLNGSDARLPCTFNSCYTVNH  
KQFSLNWTYQECNNCSEEMFLQFRMKIINLKLERFQDRVEFSGNPSKYDVSVMRLNVQPE  
DEGIYNCYIMNPPDRHRGHGKIHLQVLMEEPPERDSTVAVIVGASVGGFLAVVILVLMVV  
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>sp|Q9NY72|SCN3B\_HUMAN Sodium channel subunit beta-3 OS=Homo sapiens GN=SCN3B PE=1 SV=1  
MPAFNRLFPLASLVLIYVWSVCFVPCVEVPSETEAVQGNPMLKRCISCMKREEVEATTVV  
EWFYRPEGGKDFLIYEYRNGHQEVESPFQGRQLQWNGSKDLQDVSITVLNVTLNDSGLYTC  
NVSREFEFEAHRPFVKTTRLIPLRVTEEAGEDFTSVVSEIMMYILLVFLTLWLLIEMIYC  
YRKVSKAEAAQENASDYLAIPSENKENSAPVVEE

>sp|Q9UQD0|SCN8A\_HUMAN Sodium channel protein type 8 subunit alpha OS=Homo sapiens  
GN=SCN8A PE=1 SV=1  
MAARLLAPPGPDSFKPFTPELANIERRIAESKLKKPPKADGSHREDDDSKPKPNSDLE  
AGKSLPFIYGDIPQGLVAVPLEDFDPYYLTQKTFVVLNRGKTLFRFSATPALYILSPFNL  
IRRIAIKILIHVSFMSIIMCTILTNCVFMFTSNPPDWSKNVEYTFGTIYTFESLVKIIAR  
GFCIDGFTFLRDPWNWLDVSVIMMAYITEFVNLGNVSALRTFRVLRALKTISVIPGLKTI  
VGALIQSVKKLSDVMILTVFCLSVFALIGLQLFMGNLRNKCWWPINFNESYLENGTKGF  
DWEYINNKTNFYTPGMLLEPLLCGNSSDAGQCPEGYQCMKAGRNPNGYTSFDTFSWAF  
LALFRLMTQDYWENLYQLTLRAAGKTYMIFVFLVIFVGSFYLVNLILAVVAMAYEEQNQA  
TLEEAEQKEAEFKAMLEQLKKQEEAQAAAMATSAGTVSEDAIEEGEGEGGSPPRSSEI  
SKLSSSAKERRNRKRKRKQKELSEGEKGDPEKVFKSESEDGMRRKAFRLPDNRIGRKF  
SIMNQSLLSIPGSPFLSRHNSKSSIFSFRGPGFRFRDPGSENEFADDEHSTVEESEGRRDS  
LFIPIRARERRSSYSGYSGYSGSRSSRIFPSLRRSVKRNSTVDCNGVVSLIGPGSGHIG  
GRLLPEATTEVEIKKKGPGSLLVSMDQLASYGRKDRINSIMSVVTNTLVEELEESQRKCP  
PCWYKFANTFLIWECHPYWIKLKEIVNLIVMDPFVDLAITICIVLNTLFMAMEHHPMTPQ

FEHVLAVGNLVFTGIFTAEMFLKLIAMDPPYYFQEGWNIFDGFIVSLSLMELSLADVEGL  
SVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKS  
YKECVCKINQDCELPRWHMHDFHFSFLIVFRVLCGEWIETMWDCMEVAGQAMCLIVFMMV  
MVIGNLVVLNLFALLSSFSADNLAATDDDGEMNNLQISVIRIKKGVATKLVHAFMQ  
AHFKQREADEVKPLDELYEKKANCIANHTGADIHRNGDFQKNGNGTSGIGSSVEKYIID  
EDHMSFINNPNTVVRPIAVGESDFENLNTEDVSSESDEPGSKDKLDDTSSSEGSTIDIK  
PEVEEVPEEQPEEYLDPDACFTEGCVQRFKCCQVNIEEGLGKSWILRKTCLIVEHNWF  
ETFIIFMILLSSGALAFEDIYIEQRKTIRTILEYADKVFTYIFILEMLLKWTAYGVKFF  
TNAWCWLDLIVAVSLVSLIANALGYSELGAIKSLRTLRLRPLRALS RFEGMRVVNAL  
VGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKYHYCFNETSEIRFEIEDVNNKTECEKLM  
EGNNTAIRWKNVKINFDNVGAGYLALLQVATFKGWMIMYAAVDSRKPDQPKYEDNIYM  
YIYFVIFIIFGSFTLNLFIGVIDNFNQKKKFGGQDIFMTEEKKYNNAMKKLGSKKP  
QKPIPRPLNKIQGIVDFVTQQAQFDIVIMMLICLNMVTMMVETDTQSKQMENILYWINLV  
FVIFTCECVLKMFLRHYYFTIGWNIFDFVVVILSIVGMFLADIEKYFVSPTLFRVIR  
LARIGRILRLIKGAKGIRTLFALMMSLPALFNIGLLLFLVMFIFSIFGMSNFAYVKHEA  
GIDDMFNFETFGNSMICLFQITTSAGWDGLLLPILNRPPDCSLDKEHPGSGFGDCGNPS  
VGIFFFVSYIIISFLIVNMYIAIILENFSVATEESADPLSEDDFETFYEIWEKFDPDAT  
QFIEYCKLADFADALEHPLRVKPNTELIAMDLPMVSGDRIHCLDILFAFTKRVLGDSG  
ELDILRQQMEERFVASNPSKVSYPEITTTLRKQEEVSAVVLQRAYRGHLARRGFICKKT  
TSNKLENGGTHREKKESTPSTASLPSYDSVTKEPEKQQRAEGRRERAKRQKEVRESKC

>sp|Q9NRP4|SDHF3\_HUMAN Succinate dehydrogenase assembly factor 3, mitochondrial OS=Homo sapiens GN=SDHAF3 PE=1 SV=1

MPGRHVSRRVRLYKRVLQLHRVLPPDLKSLGDQYVKDEFRRHKTVGSDAQRFLEWEVY  
ATALLQQANENRQNSTGKACFGTFLPEEKLNDFRDEQIGQLQELMQEATKPNRQFSISES  
MKPKF

>sp|P20132|SDHL\_HUMAN L-serine dehydratase/L-threonine deaminase OS=Homo sapiens GN=SDS PE=1 SV=2

MMSGEPLHVKTPIRDSMALSKMAGTSVYLKMDSAQPSGSFKIRGIGHFCKRWAKQGCASF  
VCSSAGNAGMAAAYAARQLGVPATIVVPSTTPALTIERLKNEGATVKVVGELLDEAFELA  
KALAKNNPGWVYIPPFDDPLIWEGHASIVKELKETLWEKPGAIALSVGGGGLLCGVVQGL  
QEVGWGDVPVIAMETFGAHSFHAATTAGKLVSLPKITSVAKALGVKTVGAQALKLFQEHF  
IFSEVISDQEAVAIEKFVDDEKILVEPACGAALAAVYSHVIQKLQLEGNLRTPLPSLVV  
IVCGGSNISLAQLRALKEQLGMTNRLPK

>sp|Q7Z5N4|SDK1\_HUMAN Protein sidekick-1 OS=Homo sapiens GN=SDK1 PE=2 SV=3

MARGARPSAAGGGGGAEPERAGPGRPRGSPGRARPSLAPRPGPEPSRPRAAPETSGG  
DTAGAGRCGGRRAAKLGPGRGWWALLALQLHLLRALAQDDVAPYFKTEPGLPQIHLEGN  
RLVLTCLAEGSWPLEFKWMRDDSELTTYSSEYKIIIPSLQKLDAGFYRCVVRNRMGALLQ  
RKSEVQVAYMGSFMDTDQRKTVSQGRAAILNLLPITSYPRQVTWFREGHKIIPSNRIAI  
TLENQLVILATTTSDAGAYYVQAVNEKNGENKTSPIHLSIARDVGTPEPTMAPTIVVPPG  
NRSVVGSSSETTLECIASARVEDLSVTWKRNGVRITSLHSFGRRLTISNPTSADTGPY  
VCEAALPGSAFEPARATAFLFIIIEPPYFTAEPESRISAEVEETVDIGCQAMGVPLPTLQW  
YKDAISISRLQNPRYKVLASGGLRIQKLRPEDSGIFQCFASNEGGEIQTHYLDVTNIAP  
VFTQRPVDTTVDGMTAILRCEVSGAPKPAITWKRENHILASGSVRIPRFLLESGLLQI  
APVFIQDAGNYTCYAANTEGSLNASATLTVWNRTSIVHPPEDHVVIKGTATLHCGATHD

PRVSLRYVWKKDNVALTPSSTSRIVVEKDGSLLSQTWSGDIGDYSCEIVSEGGNDSRMA  
RLEVIELPHSPQNLLVSPNSSSHAVVLSWVRPFDGNSPILYYIVELSENNSPWKVLHLSN  
VGPEMTGVTVSGLTTPARTYQFRVCAVNEVGRGQYSAETSRLMLPEPPSAPPKNIVASGR  
TNQSIMVQWQPPPETEHNGVLRGYILRYRLAGLPGEYQQRNITSPEVNYCLVTDLI IWTQ  
YEIQVAAAYNGAGLGVSRAVTEYTLQGVPTAPPQNVQTEAVNSTTIQFLWNPPPPQFING  
INQGYKLLAWPADAPEAVTVVTIAPDFHGVHHGHITNLKKFTAYFTSVLCFTTPGDGPPS  
TPQLVWTQEDKPGAVGHLSFTEILDTSKVSWEPELEKNGIITGYQISWEVYGRNDSRLT  
HTLNSTTHEYKIQGLSSLTTYTIDVAAVTAVGTGLVTSSTISSGVPPDLPGAPSNLVISN  
ISPRSATLQFRPGYDGKTSISRWIVEGQVGAIGDEEEWVTLYEEENEPDAQMLEIPNLTP  
YTHYRFRMKQVNIIVGSPSPSSRVIQTLQAPPDVAPTSVTVRTASETSRLRLRWVPLPDS  
QYNGNPESVGRIKYWRSDLQSSAVAQVVSRLEREFTIEELEEWMEYELQMQAFNAVGA  
GPWSEVVRGRTRESVPSAAPENVSAEAVSSTQILLTWTSPVEQDQNGLILGYKILFRAKD  
LDPEPRSHIVRGNHTQSALLAGLRKFVLYELQVLAFTRIGNGVPTPLILERTKDDAPGP  
PVRLFPEVRLTSVRIVWQPPEEPNGIILGYQIAYRLASSSPHTFTTVEVGATVRQFTAT  
DLAPESAYIFRLSAKTRQGWEPELEATVITTEKRERPAPPRELLVPQAEVTARSLRLQWV  
PGSDGASPIRYFTMQVRELPRGEWQTYSSSISHEATACVVDRLRPFTSYKLRLKATNDIG  
DSDFSSETEAVTTLQDVPGEPPGSVSATPHTTSSVLIQWQPPRDESLNGLLQGYRIYYRE  
LEYEAGSGTEAKTLKNPIALHAELTAQSSFKTVNSSSTSTMCELTHLKKYRRYEVIMTAY  
NIIIGESPASAPVEVFVGEAAPAMAPQNVQVTPLTASQLEVTWDPPPPESQNGNIQGYKIY  
YWEADSQNETEKMVKVLFLEPVVRLKNLTSHTKYLVSI SAFNAAGDGPKSDPQQGRTHQA  
APGAPSFLAFSEITSTLNVSWGEPAAANGILQGYRVVYEPLAPVQGVSKVVTVEVRGNW  
QRWLKVRDLTKGVTYFFRVQARTITYGPELQANITAGPAEGSPGSPRDVLVTKSASELTL  
QWTEGHSGDTPPTGYVIEARPSDEGLWDMFVKDIPRSATSYTSLDKLRQGVTYEFVVA  
VNEAGYGEPSNPSTAVSAQVEAPFYEWWFLVMALSSLIVILLVVFALVLHGQNKKYKN  
CSTGKGISTMEESVTLDNNGFAALELSSRHLNVKSTFSKNGTRSPRPSPGGLHYSDED  
ICNKYNGAVLTESVSLKEKSADASESEATDSYEDALPKHSFVNHYMSDPTYNSWKRRRA  
QGRAPAPHRYEAVAGSEAGALHPVITTSAGGVYTPAGPGARTPLTGFSSFV

>sp|Q96GA7|SDSL\_HUMAN Serine dehydratase-like OS=Homo sapiens GN=SDSL PE=1 SV=1

MDGPVAAEHAKQEPFHVVTPLLESWALSQVAGMPVFLKCENVQPSGSFKIRGIGHFCQEMA  
KKGCRHLVCSSGGNAGIAAAYAARKLGIPATIVLPESTSLQVVQRLQGEAEVQLTGKVV  
DEANLRAQELAKRDGWENVPFDHPLIWKGHASLVQELKAVLRTPPGALVLAVGGGGLLA  
GVVAGLLEVGVQHVP I I AMETHGAHCFNAAITAGKLVLPDITSVAKSLGAKTVAARALE  
CMQVCKIHSEVVEDTEAVSAVQQLDDERMLVEPACGAALAAIYSGLLRRLQAEGCLPPS  
LTSVVVIVCGNNINSRELQALKTHLGQV

>sp|Q8IZQ5|SELH\_HUMAN Selenoprotein H OS=Homo sapiens GN=SELH PE=1 SV=2

MAPRGRKRKAEEAAVVAVAEKREKLANGGEGMEEATVIEHCTSURVYGRNAAALSQALRL  
EAPELPVKVNPTKPRRGSFEVTLRLPDGSSAELWTGIKKGPPRKLKFPEPQEVVEELKKY  
LS

>sp|Q12765|SCRN1\_HUMAN Secernin-1 OS=Homo sapiens GN=SCRN1 PE=1 SV=2

MAAAPPSYCFVAFPPRAKDGLVVFCKNSARPRDEVQEVVYFSAADHEPESKVECTYISID  
QVPRTYAIMISRPAWLWGAEMGANEHGVCIANEAINTREPAAEIEALLGMDLVRLGLERG  
ETAKEALDVIVSLLEEHHGGNYFEDANSCHSFQ SAYLIVDRDEAWVLETIGKYWAAEKV  
TEGVRCICSQLSLTTKMDAEHPELRSYAQSQGWWTGEGEFNFSEVFSPEVDHLCGAGKD  
SLEKQEESITVQTMNLTLDKASGVCIDSEFFLTASGVSVLPQNRSSPCIHFTGTDPD

SRSIFKPFIFVDDVKLVPKTQSPCFGDDDPAPKEPRFQEKPDRRHELKHAHEWARAIIES  
DQEQGRKLRSTMLELEKQGLEAMEEILTSSEPLDPAEVGDLFYDCVDTEIKFFK

>sp|000560|SDCB1\_HUMAN Syntenin-1 OS=Homo sapiens GN=SDCBP PE=1 SV=1

MSLYPSLEDLKVDKVIQAQTAFSANPANPAILSEASAPIPHDGNLYPRLYPELSQYMGLS  
LNEEEIRANVAVVSGAPLQGQLVARPSSINYMVAPVTGNDVGIRRAEIKQGIREVILCKD  
QDGKIGLRKSIDNGIFVQLVQANSPASLVGLRFGDQVLQINGENCAGWSSDKAHKVLKQ  
AFGEKITMTIRDRPFERTITMHKDSTGHVGFIFKNGKITSIVKDSSAARNGLLTEHNICE  
INGQNVIGLKDSQIADILSTSGTVVTITIMPAFIFEHI IKRMAPSIMKSLMDHTIPEV

>sp|Q9HCN8|SDF2L\_HUMAN Stromal cell-derived factor 2-like protein 1 OS=Homo sapiens  
GN=SDF2L1 PE=1 SV=2

MWSAGRGGAAWPVLLGLLLALLVPGGGAAGTGAELVTCGSLKLLNTHHRVRLHSHDIKY  
GSGSGQSVTGVEASDDANSYWRIRGGSEGGCPRGSPVRCGQAVRLTHVLTGKNLHTHHF  
PSPLSNNQEVSAFGEDGEGDDLWTVRCSGQHWEREAARFQHVGTSVFLSVTGEQYGS  
PIRGQHEVHGMPSANTHNTWKAMEGIFIKPSVEPSAGHDEL

>sp|Q6ZPB5|SDIM1\_HUMAN Stress-responsive DNAJB4-interacting membrane protein 1 OS=Homo  
sapiens GN=SDIM1 PE=1 SV=2

MWPAPCSVGRLLIFFMCSSSGYVVGCGPSPGARTTLGSPLSLWSIKTPSHIFCTRRAIN  
LGFPSPLVQLIFWSLNAGLDLYLCLISSCGFSQVFWPVEAFCSFSLFFALALSHKFVI  
CRLDQHIFSGFTKSLKNLPPCHRTDI

>sp|Q9H7L9|SDS3\_HUMAN Sin3 histone deacetylase corepressor complex component SDS3 OS=Homo  
sapiens GN=SUDS3 PE=1 SV=2

MSAAGLLAPAPAQAGAPPAPEYYPEEDEELES AEDDERSCRGRESDTEDASETDLAKH  
DEEDYVEMKEQMYQDKLASLKRQLQQLQEGTLQEYQKRMKKLDQYKERIRNAELFLQLE  
TEQVERNYIKEKKA AVKEFEDKKVELKENLIAELEKKKKMIENEKLTMELTGDSMEVKPI  
MTRKLRRRPNDPVPIPKRRKPAPAQLNYLLTDEQIMEDLRTLNLKLSPKRPASPSSPEH  
LPATPAESPAQRFEARIEDGKLYDKRWYHKSQAIYLESKDNQKLSCVISSVGANEIWVR  
KTSdstkmRIYLGLQRLFVIRRRSAA

>sp|Q9BYH1|SE6L1\_HUMAN Seizure 6-like protein OS=Homo sapiens GN=SEZ6L PE=1 SV=1

MPAARPPAAGLRGISLFLALLLGSPAAALERDALPEGDASPLGPYLLPSGAPERGSPGKE  
HPEERVVTAPPSSSQAEVLGELVLDGTAPSAHHDIPALSPLLPEEARPKHALPPKKKL  
SLKQVNSARKQLRPKATSAATVQRAGSQPASQGLDLLSSSTEKPGPPGDPDPIVASEEAS  
EVPLWDRKESAVPTTAPLQISPFTSQPYVAHTLPQRPEPGEPGDMAQEAPQEDTSPM  
ALMDKGENELTGSASEESQETTTSTIITTTVITTEQAPALCSVSFSNPEGYIDSSDYPLL  
PLNNFLECTYNVTYTYGYGVELQVKS VNLSDGELLSIRGVDGPTLTVLANQTLLVEGQVI  
RSPTNTISVYFRTFQDDGLGTFQLHYQAFMLSCNFPRRPDSDVTVMDLHSGGVAHFHCH  
LGYELQGAKMLTCINASKPHWSSQEPICSA PCGAVHNATIGRVLSPSY PENTNGSQFCI  
WTIEAPEGQKLHLHFERLLLHDKDRMTVHSGQTNK SALLYDSLQTESVPFEGLLSEGNTI  
RIEFTSDQARAASTFNIRFEAFEKGHCYEPYIQNGNFTTSDPTYNIGTIVEFTCDPGHSL  
EQGPAIIECINVRDPYWNDTEPLCRAMCGGELSAVAGVVLSPNWPEPYVEGEDCIWKIHV  
GEEKRIFLDIQFLNLSNSDILTIYDGDEVMPHILGQYLGNSGPQKLYSSTPDLTIQFHSD  
PAGLIFGKGQGFIMNYIEVSRNDS CSDLPEIQNGWKTTSHTELVRGARITYQCDPGYDIV  
GSDTLTCQWDLSSSDPPFCEKIMYCTDPGEVDHSTR LISDPVLLVGTTIQYTCNPGFVL  
EGSSLLTCYSRETGTPIWTSRLPHCVSEESLACDNPLPENGYQILYKRLYLPGESLTFM  
CYEGFELMGEVTIRCILGQPSHWNGPLPVCKVNQDSFEHALEVAEAAAETSLEGGNMALA

IFIPVLIISLLLGGAYIYITRCRYYSNLRPLMYSHYPYSQITVETEDNPIYETGETREY  
EVS I

>sp|Q9HB31|SEBOX\_HUMAN Homeobox protein SEBOX OS=Homo sapiens GN=SEBOX PE=3 SV=2

MGGSGVGTAWHGPLARPSGTLPFASSMPSPVDASSADGGSGLGSHRRKRTTFSKGQLEL  
ERAFAAWPYPNISTHEHLAWVTCLPEAKVQVWFQKRWAKIIKNRKSGLSPGSECPQSSC  
SLPDTLQQPWPQMPGQPPSSGTPQRTSVCRHSSCPAPGLSPRQGWEGAKAVAPWGSAG  
ASEVHPSLERATPQTSLSGLSDLIYALAIVVNDHS

>sp|Q12981|SEC20\_HUMAN Vesicle transport protein SEC20 OS=Homo sapiens GN=BNIP1 PE=1 SV=3

MAAPQDVHVRICNQEIIVKFDLEVKALIQDIRDCSGPLSALTELNTKVKEKFQQLRHRIQD  
LEQLAKEQDKESKQLLLQEVENHKKQMLSNQASWRKANLTCKIAIDNLEKAELLQGGDL  
LRQRKTTKESLAQTSSTITESLMGISRMMAQQVQQSEEAMQSLVTSSRTILDANEEFKSM  
SGTIQLGRKLITKYNRRELTDKLLIFLALALFLATVLYIVKKRFPFL

>sp|Q9UGP8|SEC63\_HUMAN Translocation protein SEC63 homolog OS=Homo sapiens GN=SEC63 PE=1  
SV=2

MAGQQFQYDDSGNTFFYFLTSFVGLIVIPATYYLWPRDQNAEQIRLKNIRKVYGRCMWYR  
LRLKPKPNIIPTVKKIVLLAGWALFLFLAYKVSKTDREYQEYNPYEVLNLDPGATVAEI  
KKQYRLLSLKYHPDKGGDEVMFMRIAKAYAALTDEESRKNWEEFGNPDGPQATSFGIALP  
AWIVDQKNSILVLLVYGAFMVILPVVGSWWYRSIRYSGDQILIRTTQIYTYFVYKTRN  
MDMKRLIMVLGASEFDPQYNKDATS RPTDNILIPQLIREIGSINLKKNEPPLTCPYSLK  
ARVLLLSHLARMKIPETLEEDQQFMLKKCPALLQEMVNVICQLIVMARNREEREFRAPTL  
ASLENCMKLSQMAVQGLQKFSPLLQLPHIEEDNLRVSNHKKYIKTIQDLVSLKESDR  
HTLLHFLEDEKYEEVMAVLGSFPYVTMDIKSQVLDDSDNNITVGS LVTVLVKLTRQTMA  
EVFEKEQSICAAEEQPAEDGGGETNKNRTKGGWQQKSKGPKKTAKSKKKKPLKKKPTPVL  
LPQSKQQKQKQANGVVGNEAAVKEDEEEVSDKGS DSEEEETNRDSQSEKDDGSDRSDRE  
QDEKQNKDDEAEWQELQQSIQRKERALLETSKITHPVYSLYFPEEKQEWWWLYIADRKE  
QTLISMPYHVCTLKDTEEVELKFPAPGKPGNYQYTVFLRSDSYMGLDQIKPLKLEVHEAK  
PVPENHPQWDTAIEGDEDQEDSEGFEDSFEEEEEEEEEDDD

>sp|Q6ZU15|SEP14\_HUMAN Septin-14 OS=Homo sapiens GN=SEPT14 PE=1 SV=2

MAERTMAMPTQIPADGDTQKENNIRCLTTIGHFGFECLPNQLVSR SIRQGFTFNILCVGE  
TGIGKSTLIDTLFNTNLKDNKSSHFYSNVGLQIQTYELQESNVQLKLTVVETVGYGDQID  
KEASYQPVIDYIDAQFEAYLQEELKIKRSLFEYHDSRVHVCLYFISPTGHSLKSLDLLTM  
KNLDSKVNIIPLIAKADTISKNDLQTFKNKIMSELISNGIQIYQLPTDEETAQAANSSVS  
GLLPFAVVGSTDEVKVGKRMVRGRHYPWGV LQVENENHCD FVKLRDMLLCTNMENLKEKT  
HTQHYECYRYQKLQKMGFTDVGPNQPVSFQEIFEAKRQEFYDQCQREEEELKQRFMQRV  
KEKEATFKEAEKELQDKFEHLKMIQQEEIRKLEEEKKQLEGEIIDFYKMAASEALQTQL  
STDTKKDKHRKK

>sp|Q9UH03|SEPT3\_HUMAN Neuronal-specific septin-3 OS=Homo sapiens GN=SEPT3 PE=1 SV=3

MSKGLPETRTDAAMSELVPEPRPKPAVPMKPSINSNLLGYIGIDTII EQMRKKTMTGTG  
DFNIMVVGQSGLGKSTLVNTLFKSQVSRKASSWNREEKIPKTVEIKAIGHVIEEGVKMK  
LTVIDTPGFGDQINNENCWEPIEKYINEQYEFKLEEVNIARKKRIPDTRVHCCLYFISP  
TGHSLRPLDLF MKHLSKVNNIIPVIAKADTMTLEEKSEFKQVRKELEVNGIEFY PQKE  
FDELEDKTENDKIRQESMPFAVVGSDKEYQVNGKRV LGRKTPWGII EVENLNHCEFALL  
RDFVIRTHLQDLKEVTHNIHYETIRAKRLNDNGGLPPGEGLLGT VLPVPATPCPTAE

>sp|O43236|SEPT4\_HUMAN Septin-4 OS=Homo sapiens GN=SEPT4 PE=1 SV=1

MDRSLGWQGNVPEDRTEAGIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTWASRPQ  
VPEPRPQAPDLYDDDDLEFRPPSRPQSSDNQQYFCAPAPLSPSARPRSPWGKLDPYDSSSED  
DKEYVGFATLPNQVHRKSVKKGDFDTLMVAGESGLGKSTLVNSLFLTDLYRDRKLLGAEE  
RIMQTVETITKHAVDIEEKGVRRLRTIVDTPGFGDAVNTECWKPVAEYIDQQFEQYFRDE  
SGLNRKNIQDNRVHCCLYFISPFHGHLRPLDVEFMKALHQRVNIVPILAKADTLTPPEVD  
HKRKRIRREEIEHFGIKIYQFPDCDSDEDEDFKLQDQALKESIPFAVIGSNTVVEARGRRV  
RGRLYPWGIVEVENPGHCDFVKLRTMLVRTHMQDLKDV TRETHYENYRAQCIQSMTRLVV  
KERNRNKLTRESGTDFFIPAVPPGTDPETEKLIREKDEELRRMQEMLHKIQQMKENY

>sp|Q96SA4|SERC2\_HUMAN Serine incorporator 2 OS=Homo sapiens GN=SERINC2 PE=2 SV=3

MGACLGACSLSCASCLCGSAPCILSCCPASRNSTVSRLIFTFFLFLGLVLSIIMLSPG  
VESQLYKLPWWCEEGAGIPTVLQGHIDCGSLLGYRAVYRMCFATAAFFFFFTLLMLCVSS  
SRDPRAAIQNGFWFFKFLILVGLTVGAFYIPDGSTNIWFYFGVVGSLFLILQLVLLID  
FAHSWNQRWLGAEECDRAWYAGLFFFTLLFYLLSIAAVALMFMYYTEPSGCHEGKVFI  
SLNLTFVCVVSIAAVLPKVQDAQNSGLLQASVITLYTMFVTWSALSSIPEQKCNPHLPT  
QLGNETVVAGPEGYETQWWDAQSIVGLIIFLLCTLFISLRSSDHRQVNSLMQTEECPPML  
DATQQQQQVAACEGRAFDNEQDGVTSYSFFHFCLVLASLHVMMTLTNWYKPGETRKMIS  
TWTAVVVKICASWAGLLLYLWTLVAPLLLRNRDFS

>sp|Q86VE9|SERC5\_HUMAN Serine incorporator 5 OS=Homo sapiens GN=SERINC5 PE=2 SV=1

MSAQCCAGQLACCCGSAGCSLCCDCCPRIRQSLSTRFMYALYFILVVVLCIMMSTTVAH  
KMKEHIPFFEDMCKGIKAGDTCEKLVGYSAYVRVCFGMACFFFIFFCLTLKINNSKSCRA  
HIHNGFWFFKLLLLGAMCSGAFFIPDQDTFLNAWRYVGAVGGFLFIGIQLLLLVEFAHKW  
NKNWTAGTASNKLWYASLALVTLIMYSIATGGLVLMVAFYTQKDSMENKILLGVNGGLC  
LLISLVAISPWWQNRQPHSGLLQSGVISCVTYLTFSALSSKPAEVLDEHGKNVTICVP  
DFGQDLYRDENLVITLGTSLIGCILYSCLTSTRSSDALQGRYAAPLEIARCCFCFS  
PGGEDTEEQPGKEGPRVIYDEKKGTVYIYSYFHFVFFLASLYVMMTVTNWFNHVRSAPH  
LLP

>sp|Q9Y6X1|SERP1\_HUMAN Stress-associated endoplasmic reticulum protein 1 OS=Homo sapiens  
GN=SERP1 PE=1 SV=1

MVAKQRIRMANEKHSKNITQRGNVAKTSRNAPEEKASVGPWLLALFIFVVCESAIFQIIQ  
SIRMGM

>sp|Q9Y6P5|SES1\_HUMAN Sestrin-1 OS=Homo sapiens GN=SES1 PE=1 SV=2

MRLAAAANEAYTAPLAVSGLLGCKQCGGRDQDEELGIRIPRPLGQGPSRFIPEKEILQV  
GSEDAQMHALFADSFAALGRLDNITLVMVFHPQYLESFLKTQHYLLQMDGPLPLHYRHYI  
GIMAAARHQCSYLVNLHVNDLHVGGDPKWLNGLENAPQKLQNLGELNKVLAHRPWLITK  
EHIEGLLKAEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSN  
YCICDITNGNHSVDEMPVNSAENVSVSDSFFEVEALMEKMRQLQECRDEEEASQEEMASR  
FEIEKRESMFVSSDDEEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHG  
YSLVNRLYPDVQGLIDEKFHIAYNLTNTMAMHKDVTSMRLRAIWNYYHCMFGIRYDDY  
DYGEINQLLDRSFVYIKTVVCTPEKVTKRMYDSFWRQFKHSEKVHVNNLLIETARMQAE  
LYALRAITRYMT

>sp|P58005|SES3\_HUMAN Sestrin-3 OS=Homo sapiens GN=SES3 PE=1 SV=2

MNRGGGSPSAAANYLLCTNCRKVLKDKRIRVSQPLTRGPSAFIPEKEVVQANTVDERTN  
FLVEEYSTSGRLDNITQVMSLHTQYLESFLRSQFYMLRMDGPLPLPYRHYIAIMAAARHQ  
CSYLINMHVDEFLKTGGIAEWLNGLEYVPQRLKNLNEINKLLAHRPWLITKEHIQKLVKT

GENNWSLPVLHAVVLLAHYHALASFVFGSGINPERDPEISNGFRLISVNNFCVCDLAND  
NNIENASLSGSNFGIVDSLSELEALMERMKRLQEEREDEEEASQEEMSTRFEKEKKESLFV  
VSGDTFHSFPHSDFEDDMIITSDVSRYIEDPGFGYEDFARRGEEHLPTFRAQDYTWENHG  
FSLVNRLYSDIGHLLDEKFRMVYNTYNTMATHEDVDTTMLRRALFNVYHCFGIRYDDY  
DYGEVNQLLERSLKVIKTVTCYPERTTKRMYDSYWRQFKHSEKVVHVNLLLMEARMQAE  
LYALRAITRHLT

>sp|Q6ICB4|SESQ2\_HUMAN Sesquipedalian-2 OS=Homo sapiens GN=FAM109B PE=1 SV=1

MKLNERSVAHYALSDSPADHMGFLRTWGGPGTPPTPSGTGRRCWFVLKGNLLFSFESREG  
RAPLSLVVLEGCTVELAEAPVPEEFAFAICFDAPGVRPHLLAAEGPAAQEAWVKLSRAS  
FGYMRLVVRELESQQLDARQSLALQRRSSWKSVASRCKPQAPNHRAAGLENGHCLSKDSS  
PVGLVEEAGSRSAGWGLAEWELQGPASLLLKGKQSPVSPETSCFSTLHDWYQGEIVELRQ  
CWQKRAQGSHSKCEEQDRP

>sp|Q9UPS6|SET1B\_HUMAN Histone-lysine N-methyltransferase SETD1B OS=Homo sapiens  
GN=SETD1B PE=1 SV=3

MENSHPPHHHHQPPPPQPGSGERRNHHWRSYKLMIDPALKKGHHKLRYRDPGQHFLAMS  
SNRPVEIVEDPRVVGIWTKNKELELSVPKFKIDEFYVGPVPPKQVTFAKLNDNIRENFLR  
DMCKKYGEVEEVEILYNPKTKKHLGIAKVVFATVRGAKDAVQHLHSTVMGNI IHVELDT  
KGETRMRFYELLVTGRYTPQTLPGELDAVSPIVNETLQLSDALKRLKDGLSAGCGSGS  
SSVTPNSGGTPFSQDTAYSSCRLDTPNSYGGTPLTPRLGTPFSQDSSYSSRQPTPSYLF  
SQDPAVTFKARRHESKFTDAYNRRHEHHYVHNPAVTAVAGATAAFRGSSDLPGAVGGT  
GGSSGPPFKAQPDQSATFAHTPPPAQATPAPGKSAFSPYQTPVAHFPPPPPEPTATAAF  
GARDSGEFRRAPAPPPLPPAEPLAKEKPGTPPGPPPDNSMELGGRPTFGWSPEPCDSP  
GTPTLESSPAGPEKPHDSLDSRIEMLLKEQRTKLLFLREPDSDELQMEGSPISSSSSQL  
SPLAPFGTNSQPGFRGTPPSSSRPSTGLEDISPTPLPDSDEDEELDLGLGPRPPPEPGP  
PDPAGLLSQTAEVALDLVGDRPTSEKMDEGQSSGEDMEISDDEMPSPITSADCPKPM  
VVTGAAAAVAAPSVLAPTLPLPPPPGFPPLPPPPPPPPQPGFPMPPPLPPPPPPPPAH  
PAVTVPPPPPLPAPPGVPPPIILPPLPPFPGLFVPMQVDMSHVLGGQWGGMPMSFQMQTQ  
VLSRLMTGQACPYPPFMAAAAAAASAGLQFVNLPPYRGPFSLNSGPGRGQHWPLPKF  
DPSVPPPGYMPRQEDPHKATVDGVLLVVLKELKAIMKRDLNRKMVEVAFRAFDEWWDKK  
ERMAKASLTPVKSGEHKDEDRPKPKDRIASCLLESWGKGEGLGYEGLGLGIGLRGAIRLP  
SFKVKRKEPPDTTSSGDQKRLRPSTSVDEEDEESERERDRDMADTPCELAKRDPKGVGVR  
RRPARPLELDSGGEDEKESLSASSSSASSSSGSSTSPSSASDKEEEQESTEEEEEA  
EEEEEEVPRSQLSSSSTSSTDKDDDDSDDRDESENDEDTALSEASEKDEGDSDEE  
ETVSIVTSKAEATSSSESSESSEFESSSESSPSSSEDEEEVAREEEEEEEEEEMVAEES  
MASAGPEDFEQDGEAAALAPGAPAVDSLGMEEVDIETEAVAPEERPSMLDEPPLPVGVE  
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LQPPLPPRPPRPPSPPEPETDASHPSVPPEPLAEDHPPHTPGLCGSLAKSQSTETVP  
ATPGGEPLSGGSSGLSLSSPQVPGSPFSYPAPSPSLSSGGLPRTPGRDFSFTPTFSEPS  
GPLLLPVCPLPTGRRDERSGPLASPVLETGLPLPLPLPLPLPALPAVLRAQARAPTPL  
PPLLPAPLASCPPMKRKPGRRRSPPSMLSLDGPLVRPPAGAALGRELLLLPGQPQTPV  
FPSTHDPRTVTLDFRNAGIPAPPPPLPPQPPPPPPPPVEPTKLPFKELDNQWPSEAIPP  
GPRGRDEVTEEYMEAKSRGPWRRPPKKRHEDLVPPAGSPELSPPQPLFRPRSEFEEMTI  
LYDIWNGGIDEEDIRFLCVTYERLLQQDNGMDWLNNTLVWYHPSTSLSSAKKKKRDDGIR  
EHVTGCARSEGFYTIIDKKDKLRYLNSSRASTDEPPADTQGMSIPAQPHASTRAGSERRSE



QRRLLSSFTGSCDSLKFNQLKFRKKKLFCKSHIHDWGLFAMEPIAADEMVIEWGQN  
IRQVIADMREKRYEDEGIGSSYMFVRDHDTHI IDATKCGNFARFINHSCNPNCYAKVITVE  
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>sp|Q12872|SFSWA\_HUMAN Splicing factor, suppressor of white-apricot homolog OS=Homo sapiens GN=SFSWAP PE=1 SV=3

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DLLEEEARQEEYKRLSEALAEDGSYNAVGFYGSDDYDPSEPTSEEEPSKQREKNEAEN  
LEENEEPFVAPLGLSVPSDELPTAKMHAI IERTASFVCRQGAQFEIMLKAKQARNSQF  
DFLRFDHYLNPYYKFIQKAMKEGRYTVLAENKSDEKKKSGVSSDNEDDDDEEDGNYLHPS  
LFASKKCNRLLELMKPLKVVDPDHPLAALVRKAQADSSTPTPHNADGAPVQPSQVEYTAD  
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LPPPTTAETSSGATSTTTTTSALAPVAIIIPPPDVQPVIDKLAEYVARNGLKFETSVRA  
KNDQRFEFLQPWHQYNAYYEFKKQFFLQKEGGDSMQAVSAPEEAPTDSAPEKPSDAGEDG  
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DDSDDDDEESKEGQESSSSAANTNPAVAPPCVVVEKKPQLTQEELEAKQAKQKLEDRLA  
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CPLL TGGRPLPTLEVKPPDRPSSKSKDPPREEEKEKKKKKHKKRSRTRSRSPKYHSSSKS  
RSRSHSKAKHSLPSAYRTVRRSRSRSPRRRAHSPERRREERSVPTAYRVSRSPGASRK  
RTRSRSPHEKKKKRRSRRTKSKARSQSVSPSKQAAPRPAAPAAHSAHSASVSPVESRGS  
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>sp|Q96HU1|SGSM3\_HUMAN Small G protein signaling modulator 3 OS=Homo sapiens GN=SGSM3 PE=1 SV=1

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PQLWMRLSGALQKKRNSELSYREIVKNSSNDETIAAKQIEKDLLRTMPSNACFASMG  
SIGVPRLRRVLRALAWLYPEIGYCQGTGMVAACLLLFLEEDAFWMSAIIEDLLPAS  
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LLGVAMRLAGSLTDVAVETQRRKHLAYLIADQGQLGAGTLTNLSQVRRRTQRRKSTI  
TALLFGEDDLEALKAKNIKQTELVADLREAILRVARHFQCTDPKNCSVELTPDYSME  
SHQRDHENYVACSRS HRRRAKALLDFERHDDDELGFRKNDIITIVSQKDEHCWV  
GELNGLRGWFPKAFVEVLDER SKEYSIAGDDSVTEGVTDLVRGTLCPALKALFEH  
GLKKPSLLGGACHPWLFIEEAAGREV ERDFASVYSRLVLCKTFRLDEDGKVLTP  
EELLYRAVQSVNVTHDAVHAQMDVKLRSLICV GLNEQVLHLWLEVLCS  
SLPTVEKQWYQWPSFLRSPGWVQIKCELRVLCFAFSLSQDWELP AKREAQQPL  
KEGVRDMLVKHHLFSWDVDG

>sp|Q96EQ0|SGTB\_HUMAN Small glutamine-rich tetratricopeptide repeat-containing protein beta OS=Homo sapiens GN=SGTB PE=1 SV=1

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YYCNRAAAQSKLGHYTDKIDCEKAIKIDSKYKAYGRMGLALTALNKFEEAVTSYQKAL  
DLDPENDSYKSNLKIAEQKLRVSSPTGTGLSFDMASLINNPAFISMAASLMQNPVQQL  
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SSSAEEHS

>sp|A6NKC9|SH2D7\_HUMAN SH2 domain-containing protein 7 OS=Homo sapiens GN=SH2D7 PE=3 SV=2  
MEDSLKQLSLGRDPEGAGDSQALAEQLALKWMETQAPFILQNGALPPWFHGFITRKQ  
TEQLLRDKALGSFLIRLSDRATGYILSYRGSDRCRHFVINQLRNNRYIISGDTQSHSTLA  
ELVHHYQEAQLEPFKEMLTAAACRPEDNDLYDAITRGLHQTIVDPENPPATAFLTVVPDK  
AASPRSSPKPVQVSLHAQKSLDVSPRNLSQEESEAPIRVSPLEKSSSLLEESFGGPSD  
IIYADLRMRNQARLGLGTEGSGRHGPVPAGSQAYSPGREAQRRLSDEQNRPDGLGPVLS  
GVSPDQGPTEPTSWGCSAMGSLGATWRQEFPKLSQEAQPCSQGSSADIYEFIGTEGLL  
QEARDTPDQEGSTYEQIPACWGGPARAPHPGASPTYSPWVHGYKRISGTPELSEPGNTYE  
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>sp|A4FU49|SH321\_HUMAN SH3 domain-containing protein 21 OS=Homo sapiens GN=SH3D21 PE=2  
SV=2  
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LQTVSHPEVYRVLFQPEAPDELALRRGDVVKVLSKTTEDKGWWECECQRRRGVFPDNF  
VLPPPIKKLVPRKVVRESAPIKEPKKMPKTSPTVKKLATATTGPSKAKTSRTPSRD  
SQKLTSRDSGPNGGFQSGGSYHGRKRSKTQTPQQRSVSSQEEHSSPVKAPSVKRTMP  
DKTATPERPPAPENAPSSKKIPAPDKVPSPEKTLTLGDKASIPGNSTSGKIPAPDKVPTP  
EKMVTPEDKASIPENSIPEETLTVDKPSTPERVFSVEESPALEAPPMDKVPNPKMAPLG  
DEAPTEKVLTPELSEEVSTRDDIQFHHFSSEEALQVKYFVAKEDPSSQEEAHTPEAP  
PPQPPSSERCLGEMKCTLVRGDSSPRQAEKSGPASRPALKEKPHPEEATTLPEEAPSND  
ERTPEEEAPPNEQRPLREEVLPKEGVASKEEVLTKHEELPPKEEVAPKEEVPIERAFQK  
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>sp|Q99961|SH3G1\_HUMAN Endophilin-A2 OS=Homo sapiens GN=SH3GL1 PE=1 SV=1  
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NPASRAKLTMNTVSKIRGQVKNPGYPQSEGLLGECMIRHGKELGGESNFGDALLDAGES  
MKRLAEVKDSLDEIVKQNFIDPLQNLCEKDLKEIQHHLKKLEGRRLDFDYKKKRQKIPD  
EELRQALEKFESKEVAETSMHNLETDIEQVSQLSALVDAQLDYHRQAVQILDELAEKL  
KRRMREASSRPKREYKPKPREPFDLGEPEQSNNGFPCTTAPKIAASSFRSSDKPIRTPS  
RSMPLDQPSCKALYDFEPENDGELGFHEGDVITLTNQIDENWYEGMLDGQSGFFPLSYV  
EVLVPLPQ

>sp|Q8TEC5|SH3R2\_HUMAN Putative E3 ubiquitin-protein ligase SH3RF2 OS=Homo sapiens  
GN=SH3RF2 PE=1 SV=3  
MDDLTLDDLLECPVCFEKLDTVAKVLPCHTFCKPCLQRVFKAHKELRCPECRTPVFSNI  
EALPANLLLVRLLDGVRSGQSSGRGGSFRRPGTMTLQDGRKSRTNPRRLQASPFRLVPNV  
RIHMDGVPRAKALCNYRGQNPGLRFNKGDIILLRRQLDENWYQGEINGISGNFPASSVE  
VIKQLPQPPLCRALYNFDLRGDKSENQDCLTFLKDDIITVISRVDENWAEGLGDKVG  
IFPILFVEPNLTARHLEKNKGRQSSRTKNLSLVSSSSRGNTSTLRRGPGSRRKVPQGFS  
ITTALNTLNRMVHSPSGRHMVEISTPVLISSNPSVITQPMKADVPSSCVGVSTYHPA  
PVSPGHSTAVVSLPGSQHLSANMFVALHSYSAHGPDLDLQKGEVVRVLGKCDGWLRG  
VSLVTGRVGIFPNNYVPIIFRKTSSFPDSRSPGLYTTWTLSSTSSVSSQGSISEGDPRQSR  
PFKSVFVPTAIVNPVRSTAGPTLGQGLRKGSSMRKNGSLQRPLQSGIPTLVVGLRRL  
SPTMVLRPQQFQFYQPQGIPSSPSAVVVMGSKPALTGEPALTCISRGSEAWIHSAASSL  
IMEDKEIPIKSEPLPKPPASAPPSILVKPENS RNGIEKQVKTVRFQNYSPPTKHYTSH  
TSGKPEQPATLKASQPEAASLGPEMTVLFHRSGCHSGQQTDLRRKSALGKATTLVSTAS

GTQTVFPSK

>sp|Q9Y566|SHAN1\_HUMAN SH3 and multiple ankyrin repeat domains protein 1 OS=Homo sapiens  
GN=SHANK1 PE=1 SV=2

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SMSVPDDAHFSMMVFRIGIPDLHQTKCLRFNPDIWTAKQQVLCALSES LQDVLNYGLF  
QPATSGRDANFLEERLLREYPQSFKEGVPYLEFRYKTRVYKQTNLDEKQLAKLHTKTGL  
KKFLEYVQLGTSDKVARLLDKGLDPNYHSDSGETPLTLAAQTEGSVEVIRTLCLGGAHI  
DFRARDGMTALHKAACARHCLALTALLDLGGSPNYKDRRGLTPLFHTAMVGGDPRCCCELL  
LFNRAQLGIADENGWQEIHQACQRGHSQHLEHLLFYGAEPGAQNASGNTALHICALYNKE  
TCARILLYRGADKDVKNNGQTPFQVAVIAGNFELGELIRNHREQDVVPFQESPKYAARR  
RGPPGTGLTVPPALLRANSDTSMALPDWMVFSAPGAASSGAPGPTSGSQGQSQPSAPTTK  
LSSGTLRSASSPRGARARSPSRGRHPEDAKRQPRGRPSSSGTPREGPAGGTGGSGGPGGS  
LGSRRRRRLYSAPGRSFMVAKSYQAQAEGEISLSKGEKIKVLSIGEGGFWEQVKGGRV  
GWFPSDCLEEVANRSQESKQESRSDKAKRLFRHYTVGSYDSFDAPSLMDGIGPGSDYIIK  
EKTVLLQKKDSEGFVLRGAQPTIEEFTPTPAFPALQYLESVDEGGVAWRAGLRMGD  
FLIEVNGQNVVKVGHQRQVNMIRQGGNTLMVKVVMVTRHPDMDEAVHKKAPQAKRLPPP  
TISLRSKSMTSELEEMEYEQPAPVPSMEKKRTVYQMALNKLDEILAAAQQTISASESPG  
PGGLASLGKHRPKGFFATESSFDPHHRAQPSYERPSFLPPGPGLMLRQKSIGAAEDDRPY  
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ALRYFQLPPRAASAAMYVPARSGRGRKGPLVKQTKVEGEPQKGGGLPPAPSPTSPASPQP  
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APAMSPVPPSPVPTPASPSGPATLDFTSQFGAALVGAARREGGWQNEARRRSTLFLST  
DAGDEGGDGGLTGAAPGPRLRHKSIDEGMFSAEPYLRLESAGSGAGYGGYGAGSRAY  
GGGGSSAFTSFLPPRPLVHPLTGKALDPASPLGLALAAERALKESSEGGGAPQPPRP  
PSPRYEAPPPTPHHHSPHAHHEPVLRWLGASPPDPARRELGYRAGLSQEKS LPASPPAA  
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RAPVTSGRGPSEDGPGVPPPSPRRSVPPSPTSPRASEENGLPLLVLPPPAPSVDVEDGE  
FLFVEPLPPPLEFSNSFEKPESPLTPGPPHPLPDTPAPATPLPPVPPAVAAAPPTLDST  
ASSLTSYDSEVATLTQGASAAPGDPHPPGPPAPAAPAPAAPQPGDPPPGTDSGIEEVDS  
RSSSDHPLETISSASTLSSLSAEGGGSAGGGGAGAGVASGPELLDTYVAYLDGQAFGGS  
STPGPPYPQLMTPSKLRGRALGASGGLRPGSGGLRDPVTPTSPTVSVTGAGTDGLLAL  
RACSGPPTAGVAGGPVAVEPEVPPVPLPTASSLPRKLLPWEEGPGPPPPPLPGPLAQQA  
SALATVKASIISELSSKLQFGGSSAAGGALPWARGGSGGGGSHHGGASYVPERTSSLQ  
RQRLSDDSQSSLLSKPVSSLFQNWPKPPLPPLPTGTGVSPATAAAPGATSPSASSSSTST  
RHLQGVEFEMRPPLRRAPSPSLLPASEHKVSPAPRPSSLPILPSGPLYPGLFDIRGSPT  
GGAGGSADPFAPVFVPPHPGISGGLGALSGASRSLSPTRLLSLPPDKPFGA KPLGFWTK  
FDVADWLEWLGLAEHRAQFLDHEIDGSHLPALTKEDYVDLGVTRVGHRMNIDRALKFFLE  
R

>sp|P29353|SHC1\_HUMAN SHC-transforming protein 1 OS=Homo sapiens GN=SHC1 PE=1 SV=4

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FFPRMSNLRANAGGRPGSKGEPGRAADDGEGIVGAAMPDSGPLPLLQDMNKLSGGGGR  
RTRVEGGQLGGEWTRHGSFVNKPTRGWLHPNDKVMGPGVSYLVRYMGCVEVLQSMRALD

FNTRTQVTREAIISLVCEAVPGAKGATRRRKPCSRPLSSILGRSNLKFAGMPITLTVSTSS  
LNLMAADCKQIIANHHMQSISFASGGDPDTAEYVAYVAKDPVNQRACHILECEGLAQDV  
ISTIGQAFELRFKQYLRNPPKLVTPHDMAGFDGSAWDEEEEEPPDHQYYNDFPGKEPPL  
GGVDMRLREGAAPGAARPTAPNAQTPSHLGATLPVGGQPVGGDPEVRKQMPPPPPCPGRE  
LFDDPSYVNVQNLDKARQAVGGAGPPNPAINGSAPRDLFDMKPFEDALRVPPPPQSVSMA  
EQLRGEFWFHGKLSRREA EALLQLNGDFLVRESTTTPGQYVLTGLQSGQPKHLLLVDP  
EGLVVR TKDHRFESVSHLISYHMDNHLPIISAGSELCLQQPVERKL

>sp|Q9BY12|SCAPE\_HUMAN S phase cyclin A-associated protein in the endoplasmic reticulum  
OS=Homo sapiens GN=SCAPER PE=1 SV=2

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KTTKQSTAVDCKITSSTTGDKHFDKSPKTRHPRKIDLRARYWAFLFDNLRRRAVDEIYVT  
CESDQSVVECKEVLMLDNYVRDFKALIDWIKLEKLEKTDQSRPTSLAWEVKKMSPGR  
HVIPSPSTDRINVTSNARRSLNFGGSTGTVPAPRLAPTGVSWADKVKAHHTGSTASSEIT  
PAQSCPPMTVQKASRKNERKDAEGWETVQRGRPIRSRSTAVMPKVSLATEATR SKDDSDK  
ENVCLLPDESIQKGQFVGDTNTIESHPKDSLHSCDHPLAEKTQFTVSTLDDVKNSGSI  
RDNYVRTSEISAVHIDTECVSVMLQAGTPPLQVNEEKFPAEKARIENEMDPSDISNSMAE  
VLAKKEELADRLEKANEEAIAAIAEEEEQLTREIEAENNDINIETDNDSDFSASMGSGS  
VSFCGMSMDWNDVLADYEARESWRQNTSWGDIVEEEPARPPGHGIMHEKLSSPSRKRTI  
AESKKKHEEKQMKAAQQLREKLREEKTLKLQKLLEREKDV RKWKEELDQRRRMEEKLLH  
AEFKREVQLQAI VKKAQEEEA KVNEIAFINTLEAQNK RHDVLSKLKEYEQRLNELQEERQ  
RRQEEKQARDEAVQERKRALEAERQARVEELLMKRKEQEARIEQQRQEKEKAREDAARER  
ARDREERLAAL TAAQQEAMEELQKKIQLKHDESIRRHMEQIEQRKEAAELSSGRHANTD  
YAPKLTPYERKKQCSLCNVLISSEVYLF SHVKG RKHQQAVRENTSIQGRELSDEEVEHLS  
LKKYIIDIVVESTAPAEALKDGEERQKNKKKAKKIKARMNFRAKEYESLMETKNSGSDSP  
YKAKLQRLAKDLLKQVQVQDSGSWANNKVSALDRTLGEITRILEKENVADQIAFQAAGGL  
TALEHILQAVVPATNVNTVLRIPPKSLCNAINVYNLT CNNCSENCSDVLF SNKITFLMDL  
LIHQLT VYVPDENNTILGRNTNKQVFEGLT TGLLKVS AVVLGCLIANRPDGNCQPATPKI  
PTQEMKNKPSQGD PPFNNRVQDLISYVVMGLIDKLCACFLSVQGPVDENPKMAIFLQHAA  
GLLHAMCTLCFAVTRGSYSIFDNNRQDPTGLTAALQATDLAGVLHMLYCVLFHGTILDPS  
TASPKENYTQNTIQVAIQSLRFFNSFAALHLP AFQSIVGAEGLSLAFRHMASSLLGHCSQ  
VSCESLLHEVIVCVGYFTVNHPDNQVIVQSGRHPTVLQKLCQLPFQYFSDPRLIKVLFPS  
LIAACYNNHNKIILEQEMSCVLLATFIQDLAQTPGQAENQPYQPKGKCLGSQDYLELAN  
RFPQQAWEERQFFLKKEKK

>sp|Q12770|SCAP\_HUMAN Sterol regulatory element-binding protein cleavage-activating  
protein OS=Homo sapiens GN=SCAP PE=1 SV=4

MTLTERLREKISR AFYNHLLCASYP IPIIILFTGFCILACCYP LKLPLPGTGPVEFTTP  
VKDYSPPPVSDSRKQGEPT EQPEWYVGAPVAYVQQIFVKSSVFPWHKNLLAVDVFRSPLS  
RAFQLVEEIRNHVLRDSSGIRSLEELCLQVTDLLPGLRKLRLNLLPEHGCLLLSPGNFWQN  
DWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSVSLYTRKRMVSYTITLVF  
QHYHAKFLGSLRARLMLLHPSPNCSLRAESLVHVHFKEEIGVAELIPLVTYIILFAYIY  
FSTRKIDMVKSKWGLAALAAVTVLSSLLMSVGLCTLFGLTPTLNGGEIFPYLVVIGLEN  
VLVLTKSVVSTPVDLEVKLRIAQGLSSEWSIMKNMATELGIIIGYFTLVPAIQEFCLF  
AVVGLVSDFFLQMLFFTIVLSIDIRRMELADLNKRLPPEACLP SAKPVGQPTRYERQLAV  
RPSTPHTITLQSSFRNLRLPKRLRVVYFLARTRLAQRLIMAGTVVWIGILVYTDPAGLR

NYLAAQVTEQSPLGEGALAMPVPSGMLPPSHPDPAFSIFPPDAPKL PENQTSPGESPER  
GGPAEVVHDSVPVEVTWGPEDDEELWRKLSFRHWPTLFSYYNITLAKRYISLLPVIPVTLR  
LNPREALEGRHPQDGRSAWPPPGPI PAGHWEAGPKGPGGVQAHGDTVLYKVAALGLATGI  
VLVLLLLCLYRVLCP RNYGQLGGGPGRRRRGELPCDDYGYAPPETEIVPLVLRGHLMDIE  
CLASDGMLLVSCCLAGHVCVWDAQTDCLTRIPRPGRRRDSGVGSGLEAQESWERLSDG  
GKAGPEEPGDSPLRHRPRGPPPSLFGDQPDLTCLIDTNFSAQPRSSQPTQPEPRHRAV  
CGRSRDSPGYDFSCLVQRVYQEEGLAAVCTPALRPPSPGPVLSQAPEDEGGSPEKGSPSL  
AWAPSAEGSIWSLELQGNLIVGRSSGRLEVWDAIEGVLLCSSEEVSSGITALVFLDKRI  
VAARLNGSLDFFSLEHTALSPLQFRGTPGRGSSPASPVYSSSDTVACHLTHTVPCAHQK  
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AICLWDVLTGSRVSHVFAHRGDVTSLTCTTSCVISSGLDDLISIWDRSTGIKFYSIQQDL  
GCGASLGVISDNLLVTGGQGCVSFWDLNYGDLLQTVYLGKNSEAQPARQILVLDNAAIVC  
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>sp|095171|SCEL\_HUMAN Sciellin OS=Homo sapiens GN=SCEL PE=1 SV=2

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SMSMFRSLEVTKLQPGGSLNANTSNTIASTSATTPVKKRQSWFPPPPPGYNASSSTGTR  
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VATSLQRSDKGEELDNLIKMNKSLNRNQGLDSLFRANPKVEEREKRAKSLES LIYMSTRT  
DKDGKGIQSLGSPIKVNQRDTKNEKGRQNLESAKV NARMNKTSRRSEDLDNATEVNPKG  
HENTTGKKDLGLIKVDPETKNITRGQSLDNLIKVTPEVKRSNQGSKDLNNFIKVYPGT  
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NTDGKQDLDLIKVNPEIFTNNQRNQDLANLIKVNPAVIRNNQSQDLNLIKVKPSALRN  
TNRDQNLNLEIVNSHVSENKNGSSNTGAKQAGPQDTVYVYTRYVENS KSPKDG YQENIS  
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>sp|Q8WVM8|SCFD1\_HUMAN Sec1 family domain-containing protein 1 OS=Homo sapiens GN=SCFD1  
PE=1 SV=4

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SVKELRDMGITLHLLHSDRPIDVPVAVYFVMPTEENIDRMCQDLRNQLYESYYLNFIS  
AISRSKLEDIANAALAASAVTQVAKVFDQYLNFITLEDDMFVLCNQNKELVSYRAINRPD  
ITDTEMETVMDTIVDSLFCFFVTLGAVPIIRCSRGTAEMVAVKLDKKLRNLRDARNSL  
FTGDTLGAGQFSFQRPLLVLVDRNIDLATPLHHTWYQALVHDVLD FHLNRVNLEESSGV  
ENSPAGARPKRKNKKS YDLTPVDKFWQKHKGSPFPEVAESVQQELESYRAQEDEVKRLKS  
IMGLEGEDEGAISMLSDNTAKLTS AVSSLPELLEKKRLIDLHTNVATAVLEHIKARKLDV  
YFEYEEKIMSKTTLDKSLDIIISDPDAGTPEDKMRLFLIYYISTQQAPSEADLEQYKKAL  
TDAGCNLNPLQYIKQWKAFTKMASAPASYGSTTTKPMGLLSRVMNTGSQFVMEGVKNLVL  
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>sp|P05060|SCG1\_HUMAN Secretogranin-1 OS=Homo sapiens GN=CHGB PE=1 SV=2

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LKTSRKDV KDKETTENENTKFEVRLLRDPADASEAH ESSSRGEAGAPGEEDIQGPTKADT  
EKWAEGGGHSRERADEPQWSLYPSDSQVSEEVKTRHSEKSQREDEEEEGENYQKGERGE  
DSSEKHL EEPGETQNAFLNERKQASAIKKEELVARSETHAAGHSQEKTHSREKSSQESG

EETGSQENHPQESKGQPRSQEESEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP  
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RYRGRGSEEYRAPRPQSEESWDEEDKRNYPSELDKMAHGYGEESEERGLEPGKGRHHR  
GRGGEPRAYFMSDTREEKRFLGEGHHRVQENQMDKARRHPQGAWKELDRNYLNYGEEGAP  
GKWQQQDGLQDTKENREEARFQDKQYSSHHTAEKRKRLGELFNPYYDPLQWKSSHFERRD  
NMNDNFLEGEENELTLNEKNFFPEYNYDWWEKKPFSEDVNWGYEKNLARVPKLDLKRQ  
YDRVAQLDQLLHYRKSAEFPDFYDSEEPVSTHQAENEKDRADQTVLTEDEKKELENLA  
AMDLELQKIAEKFSQRG

>sp|P47872|SCTR\_HUMAN Secretin receptor OS=Homo sapiens GN=SCTR PE=2 SV=2

MRPHLSPPQLQLLPVLLACAAHSTGALPRLCDVLQVLWEEQDQCLQELSREQTGDLGTE  
QPVPGCEGMWDNISWPSSVPGRMVEVECPFLRMLTSRNGSLFRNCTQDGWSETFPRPN  
LACGVNVNDSSNEKRHSYLLKLKVMYTVGYSSSLVMLLVALGILCAFRRLHCTRNYIHMH  
LFVSFILRALSNFIKDAVLFSSDDVTYCDAGRAGCKLVMVLFQYCIANYSWLLVEGLYL  
HTLLAISFFSERKYLQGFVAFGWGSPAIFVALWAIARHFLEDVGCWDINANASIWWIIRG  
PVILSILINFILFINILRILMRKLRTQETRGNEVSHYKRLARSTLLIPLFGIHYIVFAF  
SPEDAMEIQLFFELALGSFQGLVVAVLYCFLNGEVQLEVQKKWQQWHLREFPLHPVASFS  
NSTKASHLEQSQGTCTSI

>sp|Q8IYW4|SCUB1\_HUMAN Signal peptide, CUB and EGF-like domain-containing protein 1  
OS=Homo sapiens GN=SCUBE1 PE=1 SV=3

MGAAAVRWHLCVLLALGTRGLAGGSGLPGSVDVDECSEGTDDCHIDAICQNTPKSYKCL  
CKPGYKGEKGQCEDIDECENDYYNGGCVHECINIPGNYRCTCFDGFMLAHDGHNCLDVDE  
CQDNNGGCQQICVNAMGSYECQCHSGFFLSDNQHTCIHRSNEGMNKMNDHGCAHICRET  
PKGGVACDCRPGFDLAQNQKDCITLCNYGNGGCQHSCEDTDTGPTCGCHKYALHSDGRT  
CIETCAVNNGGCDRTCKDTATGVRSCPVGFTLQPDGKTCKDINECLVNNGGCDHFCRNT  
VGSFECGRKGYKLLTDERTCQDIDECSEFERTCDHICINSPGSFQCLCHRGYILYGTTHC  
GDVDECSMSGSCDQGCVENTKGSYECVCPGRRLHWNGKDCVETGKCLSRAKTSPRAQLS  
CSKAGGVESCFLSCPAHTLFVPDSENSYVLSGVPGPQGKALQKRNGTSSGLGPSCSDAP  
TTPIKQKARFKIRDACHLRPHSQARAKETARQPLLDHCHVTFTLKCDSKKRRRGRKS  
PSKEVSHITAEFEIETKMEEASDTCEADCLRKRAEQSLQAAIKTLRKSIGRQQFYVQVSG  
TEYEVAQRPAKALEGGACGAGQVLQDSKCVACGPGTHFGGELGQCVSCMPGTQDMEGQ  
LSCTPCPSSDGLGLPGARNVSECGGQCSPGFFSADGFKPCQACPVGTYPPEPGRGTGCFPC  
GGGLLTKHEGTTSFQDCEAKVHCSPGHHYNTTTHRCIRCPVGTYPPEFGQNHICITCPGNT  
STDFDGSTNVTHCKNQHCGGELGDTGYIESPNYPGDYPANAECVWHIAPPPKRRILIVV  
PEIFLPIEDECGDVLVMRKSASPTSIITYETCQTYERPIAFTSRSRKLWIQFKNENSG  
KGFQVPYVTYDEDYQQLIEDIVRDGRLYASENHQEILKDKKLIKALFDVLAHPQNYFKYT  
AQESKEMFPRSFIKLLRSKVSRLRPYK

>sp|Q96KG9|SCYL1\_HUMAN N-terminal kinase-like protein OS=Homo sapiens GN=SCYL1 PE=1 SV=1

MWFFARDPVRDFPFELIPEPPEGLPGPWALHRGRKKATGSPVSIFVYDVKPGAEETQV  
AKAAFKRFKTLRHPNILAYIDGLETEKCLHVVTAVTPLGIYLKARVEAGGLKELEISWG  
LHQIVKALSFLVNDCSLIHNNVMAAVFVDRAGEWKLGGLDYMYSAQNGGGPPRKGIPE  
LEQYDPPELADSSGRVVREKWSADMWRLGCLIWVFNGLPRAAALRNPGKIPKTLVPHY  
CELVGANPKVRPNPARFLQNCRAPGGFMSNRFVETNLFLEETIQIKEPAEKQKFFQELSKS  
LDAPFEDFCRHKVLPQLLTAFEFGNAGAVVLTPLFKVGKFLSAEEYQKQIIPVVVKMFSS  
TDRAMRIRLLQMQEQFIQYLDEPTVNTQIFPHVVHGFLDTNPAIREQTVKSMLLLAPKLN

EANLNVLMKHFARLQAKDEQGPIRCNTTVCLGKIGSYLSASTRHRVLTSAFSRATRDPF  
APSRVAGVLGFAATHNLYSMNDCAQKILPVLCLGLTVDPEKSVRDQAFKAIRSFLSKLESV  
SEDPTQLEEEVKDVHAASSPGMGAAASWAGWAVTGVSSLTSLKIRSHPTTAPTETNIPQ  
RPTPEGVPAPAPTPVPATPTTSGHWETQEEDKDTAEDSSTADRWDDWGSLEQEAESVL  
AQQDDWSTGGQVSRASQVSNSDHKSSKSPESDWSSWEAEGSWEQGWQEPSSQEPPPDGTR  
LASEYNWGGPESSDKGDPFATLSARPSTQPRPDSWGEDNWEGLETDNRQVKAELARKKRE  
ERRREMEAKRAERKVAKGPMKLGARKLD

>sp|Q9NVU7|SDA1\_HUMAN Protein SDA1 homolog OS=Homo sapiens GN=SDAD1 PE=1 SV=3

MSNRNNNKLPSNLPQLQNLIKRDPPAYIEEFLQQYNHYKSNEIFKLQPNKPSKELAEV  
MFMAQISHCYPEYLSNFPQEVKDLLSCNHTVLDPLRMTFCKALILLRNKNLINPSSLLE  
LFFELFRCHDKLLRKTLYTHIVTDIKNINAKHKNNKVVNLQNFMYTMLRDSNATAAKMS  
LDVMIELYRRNIWDAKTVNVITACFSKVTILVAALTFFLGKDEDEKQDSSESEDDG  
PTARDLLVQYATGKSSKNKKLEKAMKVLKKQKKKKKPEVFNFSAIHLIHDPQDFAEKL  
LKQLECKERFEVKMMLNLISRLVGIHELFLNFYFPFLQRFLQPHQREVTKILLFAAQA  
SHHLVPPEIIQSLMTVANFVTDKNSGEVMTVGINAIKEITARCPLAMTEELLQDLAQY  
KTHKDKNVMSARTLIHLFRTLNPQMLQKKFRGKPTASIEARVQEYGELDAKDYIPGAE  
VLEVEKEENAENDEDGWESTSLSEEDADGEWIDVQHSSDEEQQEISKKLNSMPMEERKA  
KAAAISTRVLTQEDFQKIRMAQMRKELDAAPGKSQKRKYIEIDSDEEPRGELLSLRDIE  
RLHKKPKSDKETRLATAMAGKTRKEFVRKKTKTNPFSSSTNKEKKKQKNFMMMRYSQNV  
RSKNKRSFREKQLALRDALLKKRKRKM

>sp|Q68CR1|SE1L3\_HUMAN Protein sel-1 homolog 3 OS=Homo sapiens GN=SEL1L3 PE=1 SV=2

MQRGAGLGWPRQQQQPPPLAVGPRAAAMVPSGGVPQGLGGRSACALLLCYLVNVPSL  
GRQTSLTTSVIPKAEQSVAYKDFIYFTVFEGNVNRNVSEVSVEYLCSQPCVVNLEAVVSSE  
FRSSIPVYKKRWKNEKHLHTSRTQIVHVKFPSIMVYRDDYFIRHSISVSAVIVRAWITHK  
YSGRDWNVKEENLLHAVAKNYTLLQTIPPFERPFKDHQVCLEWNMGYIWNLRANRIPQC  
PLENDVALLGFPYASSGENTGIVKKFPRFRNRELEATRRQRMDDYPVFTVSLWL YLLHYC  
KANLCGILYFVDSNEMYGTPSVFLTEEGYLHIQMHVLKGEDLAVKTKFI IPLKEWFRLDI  
SFNGGQIVVTTSIGQDLKSYHNQTI SFREDFHYNDTAGYFI IGGSRVYVAGIEGFFGPLY  
YRLSLHPAQIFNPLLEKQLAEQIKLYYERCAEVQEI VSVYASAAKHGGERQEACHLHNS  
YLDLQRRYGRPSMCRAFPWEKELDKHPSL FQALLEMDLLTVPRNQNESVSEIGGKIFEK  
AVKRLSSIDGLHQISSIVPFLTDSGCCGYHKASYLAVFYETGLNVPRDQLQGMLYSLVG  
GGQSERLSSMNLGYKH YQIDNYPLDWELSYAYYSNIATKTPLDQHTLQGDQAYVETIRL  
KDDEILKVQTKEDGDVFMWLKHEATRGNAAAQQLAQMLFWGQQGVAKNPEAAIEWYAKG  
ALETEDPALIYDYAIVLFKGQGVKKNRRLALELMKKAASKGLHQAVNGLGWYYHKFKKNY  
AKAAKYWLKAEEMGNPDASYNLGVLHLDGIFPGVPGRNQTLAGEYFHKAAQGGHMEGTLW  
CSLYYITGNLETFRDPEKAVVWAKHVAEKNGLGHVIRKGLNAYLEGSWHEALLYVLA  
AETGIEVSQTNLAHICEERPD LARRYLGVNCVWRYNFSVFQIDAPSFAYLKMGDLYYGG  
HQNQSQDLELSVQMYAQAAALDGSQGGFNLALLIEGTIIPHILDFLEIDSTLHSNNIS  
ILQELYERCWSHSNEESFSPCSLAWLYLHLRLLWGAILHSALIYFLGTFLLSILIAWTVQ  
YFQSVSASDPPRPSQASPD TATSTASPAVTPAADASDQDQPTVTNNPEPRG

>sp|Q5TG53|SEAS1\_HUMAN Putative uncharacterized protein SERTAD4-AS1 OS=Homo sapiens  
GN=SERTAD4-AS1 PE=5 SV=2

MSARPSLPPLPAKPAGSPRLRERPAPVGPGGEDAYSLLLRPQLGTRKVARAEAEAGGEEGK  
REAEAWTRRAAASARRGGELRTEEPPPPAARLCCLGGCGGGGGGGQKVSATASIPFSCK

RALLTSTIPLSPPAKRRGIRTWGHPSTLTPSPTMRD

>sp|Q9BVL4|SELO\_HUMAN Selenoprotein O OS=Homo sapiens GN=SELO PE=2 SV=3

MAVYRAALGASLAAARLLPLGRCSPPAPRSTLSGAAMEPAPRWLAGLRFDRALRALPV  
EAPPPGPEGAPSAPRPVPGACFTRVQPTPLRQPRLVALSEPALALLGLGAPPAREAEAEA  
ALFFSGNALLPGAEPAAHCYCGHQFGQFAGQLGDGAAMYLGEVCTATGERWELQLKGAGP  
TPFSRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVRDVFYDGNPKYEQ  
CTVVLRVASTFIRFGSFEIFKSADEHTGRAGPSVGRNDIRVQLLDYVISSFYPEIQAHA  
SDSVQRNAAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPFGFLDRYDP  
DHVCNASDNTGRYAYSQKQPEVCRWNLRKLAELQPELPLELGEAILAEFFDAEFQRHYLQ  
KMRRKLGLVQVELEEDGALVSKLLETMHLTGADFTNTFYLLSSFPVELESPGLAEFLARL  
MEQCASLEELRLAFRPQMDPRQLSMMLLAQSNPQLFALMGTRAGIARELERVEQQSRLE  
QLSAAELQSRNQHWADWLQAYRARLDKDLEGAGDAAWQAEHVRVMHANNPKYVLRNYI  
AQNAIEAAERGDFSEVRRVLKLETPYHCEAGAATDAEATEADGADGRQSYSSKPPLWA  
AELCVTUSS

>sp|Q14242|SELPL\_HUMAN P-selectin glycoprotein ligand 1 OS=Homo sapiens GN=SELPLG PE=1 SV=1

MPLQLLLLLILLGPGNSLQLWDTWADEAEKALGPLLARDRRQATEYEYLDYDFLPETEP  
EMLRNSTDTTPTLTPGTPESTTVEPAARRSTGLDAGGAVTELTELANMGNLSTDSAAME  
IQTTPAATEAQTTPVPTEAQTTPLAATEAQTTRLTATEAQTTPLAATEAQTTPAATE  
AQTQTPTGLEAQTTPAAMEAQTTPAAMEAQTTPAAMEAQTQTAMEAQTTPATE  
AQTQTPTATEAQTTPLAAMEALSTEPSATEALSMEPTTKRGLFIPFSVSVTHKGIPMAA  
SNLSVNPVPGAPDHISVKQCLLAILILALVATIFFVCTTVLAVRLSRKGHMYPRNYSPT  
EMVCISLLPDGEGPSATANGGLSKAKSPGLTPEPREDREGDDLTHSFLP

>sp|Q13591|SEMA5A\_HUMAN Semaphorin-5A OS=Homo sapiens GN=SEMA5A PE=1 SV=3

MKGTCTVIAWLFSSSLGLWRLAHPEAQGTTQCQRTEHPVISYKEIGPWLREFRAKNAVDFSQ  
LTFDPGQKELVVGARNYLFRLQLEDLSLIQAVEWECDEATKKACYSKGSKEECQNYIRV  
LLVGGDRLFTCGTNAFTPVCTNRSLSNLTEIHDQISGMARCPYSPQHNSTALLTAGGELY  
AATAMDFPGRDPAIYRSLGILPLRTAQYNSKWLNEPNFVSSYDIGNFTYFFFRENAVEH  
DCGKTVFSRAARVCKNDIGGRFLEDWTTFMKARLNCSRPGEVFPFYNELQSTFFLPEL  
DLIYGIFTTNVNSIAASAVCVFNLSAIAQAFSGPFKYQENSRSAWLPYPNPNPHFQCGTV  
DQGLYNLTERNLQDAQFILMHEVVQPVTTPVPSFMEDNSRFSHVAVDVVQGREALVHII  
YLATDYGTIKKVRVPLNQTSSCLLEEIELFPERRREPIRSLQILHSQSVLFVGLREHV  
KIPLKRCQFYRTRSTCIGAQDPYCGWDVVMKKCTSLEESLSMTQWEQSISACPTRNLTV  
GHFGVWSPWTPCTHTDGSAGVSGLCRTRSCDSPAPQCGGWQCEGPGMEIANCSRNGGWTP  
WTSWSPCSTTCGIGFQVRQSCSNPTPRHGGRVCVGQNRREERYCNEHLLCPPHMFWTGWG  
PWERCTAQCGGGIQARRRICENGPDACGNVEYQSCNTNPCPELKKTPWTPWTPVNISD  
NGGHYEQRFRTCKARLADPNLLEVGRQRIEMRYCSSDGTSGCSTDGLSGDFLRAGRYSA  
HTVNGAWSAWTSWSQSRDCSRGIRNRKVCNNPEPKYGGMPCLGPSLEYQECNILPCPV  
DGVWSCSPWTKSATCGGGHYMRTRSCSNPAPAYGGDICLGLHTEALCNTQPCPESWS  
EWSWSECEASGVQVRARQCILLFPMGSQCSGNTTESRPCVFDSNFIPEVSVARSSSVEE  
KRCGEFNMFMIAVGLSSSILGCLLTLLVYTYCQRYQQQSHDATVIHPVSPAPLNTSITN  
HINKLDKYDSVEAIAKFNKNNLILEERNKYFNPHLTGKTYSNAYFTDLNNYDEY

>sp|P04279|SEMG1\_HUMAN Semenogelin-1 OS=Homo sapiens GN=SEMG1 PE=1 SV=2

MKPNIIFVLSLLLILEKQAAVMGQKGGSKGRLPSEFSQFPHGQKQGHYSGQKQKQQTESK



GSFSIQTYHVDANDHDQSRKSQQYDLNALHKTTSQRHLGGSQQLLHNKQEGRDHDKSK  
GHFHRVVIHHKGGKAHRTQNPSQDQGNPSGKGISSQYSNTEERLWVHGLSKEQTSVSG  
AQKGRKQGGSSSYVLQTEELVANKQQRETKNSHQNKGHYQNVVEVREEHSSKVQTSLCP  
AHQDKLQHGSKDIFSTQDELLVYNKNQHQTKNLNQDQQHGRKANKISYQSSSTEERRLHY  
GENGVQKDVSSSIYSQTEKAQKGSQKQITIPSEQEHSQKANKISYQSSSTEERRLHY  
GENGVQKDVSSRSIYSQTEKL VAGKSIQAPNPKQEPWHGENAKGESGQSTNREQDLLSH  
EQKGRHQHGSHGGLDIVIIEQEDDSRHLAQHLNDRNPLFT

>sp|P49908|SEPP1\_HUMAN Selenoprotein P OS=Homo sapiens GN=SEPP1 PE=1 SV=3

MWRSLGLALALCLLPSGGTESQDQSSLCKQPPAWSIRDQDPMNSNGSVTVVALLQASUY  
LCILQASKLEDLRVKLKKEGYSNISYIVVNHQGISSRLKYTHLKNVSEHIPVYQQEENQ  
TDVWTLNNGSKDDFLIYDRCGRLVYHLGLPFSFLTFPYVEEAIKIAYCEKKCGNCSLTTL  
KDEDFCKRVSLATVDKTVETPSPHYHHEHHHNGHQHLGSSELSNQPGAPNAPTHPAP  
PGLHHHHKHKGQHRQGHENRDMFASDLQDLQKKLCRKRCINQLLCKLPTDSELAPRSU  
CCHCRHLIFEKTGSAITUQCKENLPSLCSUQLRAEENITESCQURLPPAAUQISQQLIP  
TEASASURUKNQAKKUEUPSN

>sp|Q16181|SEPT7\_HUMAN Septin-7 OS=Homo sapiens GN=SEPT7 PE=1 SV=2

MSVSARSAAAERSVNSSTMVAQQKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESG  
LGKSTLINSFLTLISPEYPGPSHRIKKTQVEQSKVLKEGGVQLLLTIVDTPGFGDA  
VDNSNCWQPVIDYIDSKFEDYLNESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFM  
KRLHEKVNI IPLIAKADTLTPEECQQFKQIMKEIQEHKIKIYEFPETDDEEENKLVKKI  
KDRLPLAVVGSNTIIEVNGKRVGRQYPWGVAEVENGEHCDFTILRNMLIRTHMQDLKDV  
TNNVHYENYRSRKLAAVTYNGVDNKNKGQLTKSPLAQMEERREHVAKMKMEMEMEQV  
FEMKVKEKVQKLKDEASELQRRHEQMKNLEAQHKELEEKRRQFEDEKANWEAQQRILEQ  
QNSSRTLEKNKKKGKIF

>sp|A6NH21|SERC4\_HUMAN Serine incorporator 4 OS=Homo sapiens GN=SERINC4 PE=2 SV=1

MVGAKAGPSPGTSGLAQHSGSSVLVKSPFCQVCCCGPAPCASCCHSRWPSLTASTCS  
RLFYILLHVGASAI CCLLSRTVVERVWGKTHRIQMPSGLCAHLFGLSDCPVLSGSGAVY  
RVCAGTATFHLLQAVLLVHLHSPTSPRAQLHNSFWLLKLLFLLGLCAIAFCIPDEHLFPA  
WHYIGICGGFAFILLQLVLITAFHSWNKNWQTGAAQDCSWFLAVLLATLGFYSMAGVGA  
VLLFHYYTHPAGCLLNKMLLSHLFCGLISFLSIAPCIRLKQPRSGLLQASVISCYIMY  
LTFSALSSRPPEVILQGGNHTLCLPGLSKMEPQTPDISLAMLSASIMYACVLFACNEAS  
YLAEVFGPLWIVKVSYEFQKPSLCFCCPETVEADKGQRGGAARPADQETPPAPPVQVQH  
LSYNYSAFHFVFFLASLYVMVTLTNWFSYEGAELEKTFIKGSWATFWVKVASCWACVLLY  
LGLLLAPLCWPPTQKPQPLILRRRRHRIISPDKYPPV

>sp|Q9Y617|SERC\_HUMAN Phosphoserine aminotransferase OS=Homo sapiens GN=PSAT1 PE=1 SV=2

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKII NNTENLV  
RELLAVPDNYKVIFLQGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGT  
INIVHPKLGSYTKIPDPSTWNLPDASYVYYCANETVHGVEFDFIPDVKGAVLVCDMSSN  
FLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECPVLEYKVQAGNSSLY  
NTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIIYEIIDNSQGFYVCPVEPQNRSK  
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAV TIEDVQKLA AF  
MKKFLEMHQL

>sp|Q9NQF3|SERHL\_HUMAN Serine hydrolase-like protein OS=Homo sapiens GN=SERHL PE=2 SV=1

MAENAAPGLISELKLAVPWGHIAAKAWGSLQGPPVLC LHGWL DNASSFDRLIPLLPQDFY

YVAMDFGGHGLSSHYPGVPYYLQTFVSEIRRVVAALKWNRFSILGHSFGGVVGGMFFCT  
FPFEMVDKLIILLDTPLFLLESDENENLLTYKRRRAIEHVLQVEASQEP SHVFSLKQLLQRQR  
TALTSSAGSCVRIPSGSCRPMSC

>sp|Q8N6R1|SERP2\_HUMAN Stress-associated endoplasmic reticulum protein 2 OS=Homo sapiens  
GN=SERP2 PE=1 SV=1

MVAKQRIRMANEKHSKNITQRGNVAKTLRPQEEKYPVGPWLLALFV FVVCGSAIFQIIQS  
IRMG

>sp|Q96T68|SETB2\_HUMAN Histone-lysine N-methyltransferase SETDB2 OS=Homo sapiens  
GN=SETDB2 PE=1 SV=2

MGEKNGDAKTFWMELEDDGKVDFIFEQVQNVLSLQKQKIKDGSATNKEYIQAMILVNEAT  
IINSSTSIKGASQKEVNAQSSDPMPVTQKEQENKSNAPSTSCENSFPEDCTFLT TENKE  
ILSLEDKVVDFREKSSSNLSYQSHDCSGACLMKMPLNLKGENPLQLPIKCHFQRRHAKT  
NSHSSALHVSYPKTPCGRSLRNVEEVFRYLLETECNFLFTDNFSFNTYVQLARNYPKQKEV  
VSDVDISNGVESVPI SFCNEIDSRKLPQFKYRKTVPWPRAYNLTNFSSMFTDSCDCSEGC  
DITKACQLTARNAKTSPLSSDKITTYGYKYKRLQRQIPTGIYECSLCKCNRLCQNRV  
VQHGPQVRLQVFKTEQKGWGVRLDDIDRGTFVCIYSGRLLSRANTEKSYGIDENGRDEN  
TMKNIFSKKRKLEVACSDCEVEVLPLGLETHPRTAKTEKCPPKFSNNPKELTVETKYDNI  
SRIQYHSVIRDPESKTAIFQHNGKKMEFVSSESVPEDNDGFKPPREHLNSKTKGAQKDS  
SSNHVDEFEDNLLIESDVIDITKYREETPPSRNCAATLDNQNIKKAIEVQIQKPQEGR  
STACQRQQVFCDEELLSETKNTSSDSLTKFNKGNVFLLDATKEGNVGRFLNHSCCPNLLV  
QNVFVETHNRNPLVAFFTNRYVKARTELTWDYGYEAGTVPEKEIFCQCGVNKCRKKIL

>sp|Q8WTS6|SETD7\_HUMAN Histone-lysine N-methyltransferase SETD7 OS=Homo sapiens GN=SETD7  
PE=1 SV=1

MDSDDEMVEEAVEGHLDDDGLPHGFCTVTYSSTDRFEGNFVHGEKNGRGKFFFFDGGSTLE  
GYYVDDALQGQGVYTYEDGGVLQGTYYVDGELNGPAQEYDTDGRLIFKGQYKDNIRHGVW  
IYYPDGGSLVGEVNEDGEMTGEKIAVVPDERTALYGKFIDGEMIEGKLATLMSTEEGRP  
HFELMPGNSVYHFDKSTSSCISTNALLPDPYESERVVAESLISSAGEGLFSKVAVGPN  
TVMFYNGVRITHQEVDSDRWALNGNTLSLDEETVIDVPEPYNHVSKYCASLGHKANHSFT  
PNCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYDHSPPGKSGPEAPEWYQVELKAF  
QATQQK

>sp|Q01105|SET\_HUMAN Protein SET OS=Homo sapiens GN=SET PE=1 SV=3

MAPKRQSPLPPQKKKPRPPALGPEETSASAGLPKKGEKEQQAIEHIDEVQNEIDRLNE  
QASEEILKVEQKYNKLRQPFQKRSELI AKIPNFWVTTFVNHPQVSALLGEEDEEALHYL  
TRVEVTEFEDIKSGYRIDFYFDENPYFENKVLSEFHLNESGDPSSKSTEIKWSGKDLT  
KRSSQTQNKASRKRQHEEPESFFTWFTDHS DAGADELGEVIKDDIWPNPLQYYLVPDMD  
DEEGEGEEDDDDEEEGLEIDEEGEDEGEDEEDDDEGEEGEEDGEDD

>sp|Q53EL9|SEZ6\_HUMAN Seizure protein 6 homolog OS=Homo sapiens GN=SEZ6 PE=1 SV=2

MRPVALLLLPSLLALLAHGLSLEAPT VGKGQAPGIEETDGELTAAPTPEQPERGVHFTT  
APTLKLLNHHPLLEEFLQEGLEKGEELRPALPFQPDPPAPFTPSPLPRLANQDSRPVFT  
SPTPAMAAVPTQPQSKEGPWSPESPMRLITAPLPPGPSMAVPTLGPGEIASTTPPSRA  
WTPTQEGPGDMGRPWVAEVVSQGAGIGIQGTITSSASGDDEETTTTTTIITTTITTVQT  
PGPCSWNFSGPEGLDSPTDLSSPTDVGLDCFFYISVYPGYGVEIKVQNISLREGETVT  
V EGLGGPDPLPLANQSFLLRQVIRSPTHQAALRFQSLPPPAGPGTFHFHYQAYLLSCHFP  
RRPAYGDVTVTSLHPGGSARFHCATGYQLKGARHLTCLNATQPFWDSKEPVCIAACGGVI

RNATTGRIVSPGFPNGYSNNLTCHWLLEAPEGQRLHLHFEKVSLAEDDDRLLIIRNGDNVE  
APPVYDSYEVEYLPIEGLLSSGKHFFVELSTDSSGAAAGMALRYEAFQQGHCYEPFVKYG  
NFSSSTPTYPVGTTFEFSCDPGYTLEQGSIIIECVDPHDPQWNETEPACRAVCSGEITDS  
AGVVLSPNWPEPYGRGQDCIWGVHVEEDKRIMLDIRVLRIGPGDVLTFYDGDDLTAARVLG  
QYSGPRSHFKLFTSMADVTIQFQSDPGTSVLGYQQGFVIHFFEVPRNDTCPELPEIPNGW  
KSPSQPELVHGTVVITYQCYPGYQVVGSSVLMCQWDLTWSEDLPSCQRVTSCHDPGDVEHS  
RRLISSPKFPVGATVQYICDQGFVLMGSSILTCHDRQAGSPKWSDRAPKCLLEQLKPCHG  
LSAPENGARSPEKQLHPAGATIHFSAPGYVLKGQASIKCVPGHPSHWSPPPICRAASL  
DGFYNSRSLDVAKAPAASTLDAAHIAAAIFLPLVAMVLLVGGVYFYFSRLQGKSSLQLP  
RPRPRPYNRITIESAFDNPTYETGSLSFAGDERI

>sp|Q15393|SF3B3\_HUMAN Splicing factor 3B subunit 3 OS=Homo sapiens GN=SF3B3 PE=1 SV=4

MFLYNLTQRATGISFAIHGNFSGTKQEIIVSRGKILELLRPDPNTGKVHTLLTVEVFG  
VIRSLMAFRLTGGTKDYIVVGSDSGRIVILEYQPSKNMFEKIHQETFGKSGCRRIVPGQF  
LAVDPKGRAVMISAIEKQKLVYILNRDAAARLTISSPLEAHKANTLVYHVVDVGFENP  
MFACLEMDYEEADNDPTGAAAANTQQTLYFELDLGLNHVVRKYSEPLEEHGNFLITVPG  
GSDGPSGVLICSENYITYKNFGDQPDIRCPIPRRRNDLDDPERGMIFVCSATHKTKSMFF  
FLAQTEQGDIFKITLETDEDMVTEIRLKYFDTPVAAAMCVLKTGFLVASEFGNHLYQ  
IAHLGDDDEEPEFSSAMPLEEGDTFFFQPRPLKNLVLDELDSLPIILFCQIADLANEDT  
PQLYVACGRGPRSSRLVLRHGLEVSEMAVSELPGNPNAVWTVRRHIEDEFDAYIIIVSFVN  
ATLVLSIGETVEEVTDSGFLGTTPTLSCSLLGDDALVQVYPDGIRHIRADKRVNEWKTPG  
KKTIVKCAVNQRQVVIALTGGELVYFEMDPSGQLNEYTERKEMSADVCMISLANVPPGEQ  
RSRFLAVGLVDNTVRIISLDPSDCLQPLSMQALPAQPESLCIVEMGGTEKQDELGERGSI  
GFLYLNLGLQNGVLLRVTLDPTGDLSDTRTRYLGSRPVKLFRVRMQGQEAVALMSSRSW  
LSYSYQSRFHLTPLSYETLEFASGFASEQCPEGIVAISTNTLRILALEKLGAVFNQVAFP  
LQYTPRKFIHPESNNLIIETDHNAYTEATKAQRKQMAEEMVEAAGEDERELAAEMAA  
AFLNENLPESIFGAPKAGNGQWASVIRVMNPIQGNLTDLVQLEQNEAAFSVAVCRFSNTG  
EDWYVLVGVAKDLILNPRSVAGGFVYTYKLVNNGEKLEFLHKTPVEEVPAAIAPFQGRVL  
IGVGKLLRVYDLGKKLLRKCEKNHIANYSISGIQTIGHRVIVSDVQESFIWVRYKRNEQ  
LIIFADDTYPRWTTASLLDYDTVAGADKFGNICVVRLPPNTNDEVEDPTGNKALWDRG  
LLNGASQKAEVIMNYHVGETVLSLQKTTLIPGGSESLVYTTLSGGIGILVPFTSHEDHDF  
FQHVMHLRSEHPPLCGRDHLSFRSYYFPVKNVIDGDLCEQFNSMEPNKQKNVSEELDRT  
PPEVSKKLEDIRTRYAF

>sp|Q8IWL1|SFPA2\_HUMAN Pulmonary surfactant-associated protein A2 OS=Homo sapiens  
GN=SFPA2 PE=1 SV=1

MWLCPLALNLILMAASGAACEVKDVCVGSPIPGTPGSHGLPRDGRDGVKGDPPGPGM  
GPPGETPCPPGNGLPGAPGVPGERGEKGEAGERGPPGLPAHLDEELQATLHDFRHQILQ  
TRGALSQGSIMTVGEKVFSSNGQSITFDAIQEACARAGGRIAVPRNPEENEAIASFVKK  
YNTYAYVGLTEGPSGDFRYSFGTPVNYTNWYRGEPAGRGKEQCVEMYTDGQWDRNCLY  
SRLTICEF

>sp|Q9H7N4|SFR19\_HUMAN Splicing factor, arginine/serine-rich 19 OS=Homo sapiens GN=SFAF1  
PE=1 SV=3

MEEDESRGKTEESGEDRGDGPDRDPTLSPSAFILRAIQQAVGSSLQGDLPNDKDGSRG  
HGLRWRRCSRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTPVPSRLDLRPG  
ESEDMLELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKTVSPQSNSSRPTCARHLTLGTG

DGGPAPPPAPSSASSSPSPSSSSSPSPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSP  
PPAPEQKYDPFEPTGSPNPSSSAGTPSPEEEEEEEEEEEEEEEEGLSQSISRISSET  
LAGIYDDNSLSQDFPGDESPRPAQPTQPTAPGTPPQVDSTRADGAMRRRVFVVGTEAE  
ACREGKVSVEVVTAGGAALPPLLPPGDSEIEEGEIVQPEEERLALSIFRPGGRAARPT  
PAASATPTAQPLQPPAPRAPEGDDFLSLHAESDGEALQVDLGEPAPAPPAADSRWGGL  
DLRRKILTQRRERYRQRSPSPAPAPAPAAAAGPPTRKKSRRERKRSGEAKAASSSSGTQ  
PAPPAPASPWDKKHRSRDRKPGSHASSARRRSRSTRRRSRSTRDRRRGGSRRS  
RSREKRRRRRSASPPPATSSSSSRERHRGKHRDGGGSKKKKRSRSGEKRSRGDSE  
KAPAPAPPPSGSTSCGDRSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGPSP  
APASSPKREVLVDSEGLSGEERGGKSSQKDRRRSGAASSSSSREKGSRRKALDGGDRDR  
DRDRDRDRDRSSKKARPPKESAPSSGPPPKPPVSSGSGSSSSSSSSSRKVKLQSKVAVL  
IREGVSSTTPAKDAASAGLGSIGVKFSRDRESRSPFLKPDERAPTEMAKAPGSTKPKKT  
KVKAKAGAKKTKGTKGKTKPSKTRKKVRSGGGSGGGQVSLKKSKADSCSQAAGTKGAE  
ETWSGGEERAAPVSTPPPKAAPPPALTPDSQTVDSCKTPEVSFLPEEATEEAGVRGG  
AEEEEEEEEEEEEEEEEQQPATTTATSTAAAAPSTAPSAGSTAGDSGAEDGPASRVSQ  
LPTLPPMPWNLPAGVDCTTSGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKP  
PSSLGMPAPVPTSLGLPPGPSSYLLPGSLPLGGCGSTPPTPTGLAATSDKREGSSSE  
RGDTDKYLKKLHTQERAVEEVKLAIKPYYQKKDITKEEYKDILRKAVHKICHKSKEINP  
VKVSNLVRAYVQRYRYFRKHGRKPGDPPGPPRPPKEGPPDKGGPGLPLPPL

>sp|Q587I9|SFT2C\_HUMAN Vesicle transport protein SFT2C OS=Homo sapiens GN=SFT2D3 PE=2  
SV=1

MADLHRQLQEYLAQKGAGPAAAEPLLAAEKAEPEGDRPAEEWLGRAGLRWTWARSPAES  
AAAGLTCLPSVTRGQRLAAGGGCLLLAALCFGLAALYAPVLLLRARKFALLWSLGSALAL  
AGSALLRGAACGRLLRCEEAPSRPALLYMAALGATLFAALGLRSTLLTVLGAGAQVAAL  
LAALVGLLPWGGGTALRLALGRLGRGAGLAKVLPV

>sp|POC7M3|SFTA3\_HUMAN Surfactant-associated protein 3 OS=Homo sapiens GN=SFTA3 PE=1 SV=1  
MRAGFSDFLIRDQVLFLQDQAQRLTEWLQLSGFENPVSESTTLCLREREKRIPTCVAVC  
VPSPGTVHTALLHPTTLSQSRSSSEAKMLIIHTA

>sp|Q9H5K3|SG196\_HUMAN Protein O-mannose kinase OS=Homo sapiens GN=POMK PE=1 SV=1  
MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDPTHCPYGHF  
RIGQMKNCSFWLSCEELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFL  
HGLQMLKSLQGTHVTVLLGYCEDDNTMLTEYHPLGSLNLEETLNLKYQNVNTWQHRLE  
LAMDYVSIINYLHSPVGVTRVMCDNDLPKTLQYLLTSNFSILANDLDALPLVNHSSGM  
LVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMPSTYDEKIDIWKIPDISSFLGHIEGSD  
MVRFHFLFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

>sp|Q8TD33|SG1C1\_HUMAN Secretoglobin family 1C member 1 OS=Homo sapiens GN=SCGB1C1 PE=3  
SV=2

MKGSRALLLVALTLFCICRMATGEDNDEFFMDFLQTLVGTPEELYEGTLGKYNVNEDAK  
AAMTELKSCIDGLQPMHKAELVKLLVQVLGSQDGA

>sp|O95968|SG1D1\_HUMAN Secretoglobin family 1D member 1 OS=Homo sapiens GN=SCGB1D1 PE=1  
SV=1

MRLSVCLLLLTLALCCYRANAVVCQALGSEITGFLLAGKPVFKFQLAKFKAPLEAFAAKM  
EVKKCVDTMAYEKRVLITKTLGKIAEKCDR

>sp|O75556|SG2A1\_HUMAN Mammaglobin-B OS=Homo sapiens GN=SCGB2A1 PE=1 SV=1

MKLLMVLMLAALLLHCYADSGCKLLEDMVEKTINSDISIPEYKELLQEFIDSDAAAEAMG  
KFKQCFLNQSHRTLKNFGLMMHTVYDSIWCNMKSN

>sp|Q16586|SGCA\_HUMAN Alpha-sarcoglycan OS=Homo sapiens GN=SGCA PE=1 SV=1

MAETLFWTPLLVLVLLAGLGDEAQQTTLHPLVGRVVFVHTLDHETFLSLPEHVAVPPAVHI  
TYHAHLQGHGPDLPRLRYTQRSPHHPGFLYGSATPEDRGLQVIEVTAYNRDSFDTTRQRL  
VLEIGDPEGPLLPYQAEFLVRSHDAEEVLPSTPASRFLSALGGLWEPGELQLLNVTSLD  
RGGRVPLPIEGRKEGVYIKVGSASPFSTCLKMVASPDSHARCAQGPPLSCYDTLAPHF  
RVDWCNVTLVDKSVPEPADEVPTPGDGILEHDPFFCPTEAPDRDFLDALVTLLVPLL  
ALLTLLLAYVMCCRREGRLKRDLATSDIQMVHHTIHGNTTEELRQMAASREVPRPLSTL  
PMFNVHTGERLPPRVDSAQVPLILDQH

>sp|Q9HBY8|SGK2\_HUMAN Serine/threonine-protein kinase Sgk2 OS=Homo sapiens GN=SGK2 PE=1  
SV=1

MQGLLTSGRKPSGGGRCTGRGGWRGQWCLKPWMGGADPPTPTLSCLLLPVPELPDHCYR  
MNSSPAGTPSPQPSRANGNINLGPSANPNAQPTDFDLKVIKGNYGKVLLAKRKSDGAF  
YAVKVLQKKSILKKKEQSHIMAERSVLLKNVRHPFLVGLRYSFQTPEKLYFVLDYVNGGE  
LFFHLQRERRFLEPRARFYAAEVASAIGYLHSLNIIYRDLKPENILLDCQGHVVLTDGFL  
CKEGVEPEDTTSTFCGTPEYLAPEVLRKEPYDRAVDWWCLGAVLYEMLHGLPPFYSQDVS  
QMYENILHQPLQIPGGRTVAACDLLQSLHKKDQQRQLGSKADFLKIKNHVFFSPINWDDL  
YHKRLTPPFNPNTGPADLKHFDPEFTQEAVSKSIGCTPDTVASSSGASSAFLGFSYAPE  
DDDILDC

>sp|Q9NP31|SH22A\_HUMAN SH2 domain-containing protein 2A OS=Homo sapiens GN=SH2D2A PE=1  
SV=3

MEFPLAQICPQGSHEAPIPTFSTFQITDMTRRSCQNLGYTAASPQAPEAASNTGNAERAE  
EVPGEGLSLFLQAETRAWFQKTQAHWLLQHGAAPAWFHGFI TRREAERLLEPKPQGCYLVR  
FSESAFTVFLTYRSRTCCRHFLAQLRDRHVVVLGEDSAHARLQDLLLHYTAHPLSPYGE  
TLTEPLARQTPEAGLSLRTEESNFGSKSQDPNPQYSPIIKQGQAPVPMQKEGAGEKEPS  
QLLRPKPPIPAKQQLPEVYTI PVPRHRPAPRPKPSNPIYNPEDEPIAFYAMGRGSPGEA  
PSNIYVEVEDEGLPATLGHPVLRKSWSRPVPGGQNTGGSQ LHSNSVIGQGPPLP HQPPP  
AWRHTLP HNLSRQVLQDRGQAWLPLGPPQ

>sp|Q99962|SH3G2\_HUMAN Endophilin-A1 OS=Homo sapiens GN=SH3GL2 PE=1 SV=1

MSVAGLKKQFHKATQKVSEKVGGAEGTKLDDDFKEMERKVDVTSRAVMEIMTKTIEYLQP  
NPASRAKLSMINTMSKIRGQKGPYPQAEALLAEAMLKFGRELGDCCNFGPALGEVGEA  
MRELSEVKDSL DIEVKQNFIDPLQNLHDKDLREIQHHLKKLEGRRLDFDYKKKRQ GKIPD  
EELRQALEKFDESKEIAESSMFNLLEMDIEQVSQLSALVQAQLEYHKQAVQILQQVTVRL  
EERIRQASSQPRREYQPKPRMSLEFPTGDSTQPNGGLSHTGTPKPSGVQMDQPCCRALYD  
FEPENEGELGFKEGDIITLTNQIDENWYEGMLHGHS GFPPINYEILVALPH

>sp|Q9UJC5|SH3L2\_HUMAN SH3 domain-binding glutamic acid-rich-like protein 2 OS=Homo  
sapiens GN=SH3BGL2 PE=1 SV=2

MVIRVFIASSSGFVAIKKKQDVVRFLANKIEFEEVDITMSEEQRQWYKNVPPEKKPT  
QGNPLPPQIFNGDRYCGDYDSFFESKESNTVFSFLGLKPRLSKAEP

>sp|B8ZZ34|SHSA8\_HUMAN Putative protein shisa-8 OS=Homo sapiens GN=SHISA8 PE=5 SV=2

MARAGARGLLGRRPPGLRLALALRLALLARPPSGRAGAPEAQGPAAPGTTAPEGGDRC  
RGYYDVMGQWDPPNFCSSGAYSFCGTCGYRFCCHDGPRRLDQSRCSNYDTPAWVQTGRP  
PARARDTAAPRDPGRERSHTAVYAVCGVAALLVLAGIGARLGLERAHS PRARRTVTRALT

ELLKQPGPQEPLPPTLGPPLGGCVQVMGDGLPRGSPHNSAGPRTPRLARASPPGEPFMR  
VAPPGLAAAAAARDSEPGVPVGAGGCGEDRLGSQRPENGPPGSHRTASGRGLRRGDSEG  
GVNRGIGSRVSLAPDKRLNNAAPRGSAAAPGPPRGPRQLQGGSLTLQPDYAKYATFKAA  
ALKAAEAAPRDFCQRFPALEPSRPQPPARAPRPSDLPAPLDACPWAPPVYAPPAAPGPY  
AAWTSSRPAPAPLSHPTARAFQVPRRPGHAARRQFSVKMPETFNPQLPGLYGSAGRGSR  
YLRTNSKTEVT

>sp|Q9P2F8|SI1L2\_HUMAN Signal-induced proliferation-associated 1-like protein 2 OS=Homo  
sapiens GN=SIPA1L2 PE=1 SV=2

MSDPRQSQEEKHKLGRASSKFKDPPRIMQSDDYFARKFKAINGNMGPPTSLNASNSNETG  
GGGPANGTPAVPKMGVRARVSEWPPKKDCSKELTCKALWESRSQTSYESITSVLQNGQSD  
QSEGGQDEQLDLDFVEAKYITIGDIFVHSPQRGLHPIRQRSNSDVTISDIDAEDVLDQNAV  
NPNTGAALHREYGSTSSIDRQGLSGENFFAMLRGYRVENYDHKAMVPFGPEFFRCDAI  
SPSLHAAAQISRGEFVRISGLDYVDSALLMGRDRDKPFKRRLKSESVETSLFRKLRTVKS  
EHETFKFTSELEESRLERIRPWCQRCFAHYDVQSILFNINEAMATRANVGKRKNITG  
ASAASQTQMPTGQTNCESPLGSKEDLSKENLDADEGDGKSNDLVSCP YFRNETGGEG  
DRRIALS RANSSSFSGESCSFESSLSHCTNAGVSVLEVPRENQPIHREKVKRYII EHI  
DLGAYYRKFFYGKEHQNYFGIDENLGPVAVSIRREKVEDAKEKEGSQFNRYVAFRTSEL  
TTLRGAILED AIPSTARHGTARGLPLKEVLEYVPELSIQCLRQASNSPKVSEQLLKLDE  
QGLSFQHKIGILYCKAGQSTEEEMYNNETAGPAFEEFLDLLGQVRVLKGF SKYRAQLDNK  
TDSTGTHSLYTTYKYELMFHVSTLLPYMPNNRQQLLRKRHIGNDIVTIVFQEPGALPFT  
PKSIRSHFQHVFIIVKVHNPC TENCYSVGVSRSKDVPPFGPPIPKGVTFPKSAVFRDFL  
LAKVINAENAAHKSEKFRAMATRTRQEYLDLAENFVTTATVDTSVKFSFITLGAKKKEK  
VKPRKDAHLFSIGAIMWHVIARDFGQSADIECLLGISNEFIMLIEKDSKNVVFNCSCRDV  
IGWTSGLVSIKVFYERGECVLLSSVDNCAEDIREIVQRLVIVTRGCETVEMTLRRNGLGQ  
LGFHVNFE GIVADVEPFGFAWKAGLRQGSRLVEICKVAVATLTHEQMIDLLRTSVTVKV  
IIQPHDDGSPRRGCSEL CRIPMVEYKLDSEGT PCEYKTPFRNTTWHRVPTPALQPLSRA  
SPIPGTPDRLPCQQLLQQAQAAIPRSTSFDRKLPDGRSSPSNQSSSDPGPGSGPWRP  
QVG YDGCQSPLLEHQGSGPLECDGAREREDTMEASRHPETKWHGPPSKVLGSYKERALQ  
KDGCKDSPNKL SHIGDKSCSSSHSSNTLSSNTSSNSDDKHFGSGDLMPELLGLTYIKG  
ASTDSGIDTAPCMPATILGPVHLAGSRSLIHSRAEQWADAADVSGPDDEPAKLYSVHGYA  
STISAGSAAEGSMGDLSEISSHSSGSHSGSPSAHCSKSSGSLDSSKYIIVSHSSGQVP  
GSM SKPYHRQAVNKYVIGWKKEGSPPEEPEVTECPGMYSEMDVMSTATQHQT VVGDA  
VAETQHVLSKEDFLKMLPDSPLVEEGRRKFSFYGNLSPRRSLYRTLSDSICSNRRGSS  
FGSSRSSVLDQALPNDILFSTTPPYHSTLPPRAHPAPSMGSLRNEFWFSDGSLSDKSKCA  
DPGLMPLPDTATGLDWHLVDAARAFEGLDSEELGLLCHHTSYLDQRVASFCTLTDMQH  
GQDLEGAQELPLCVDPGSGKEFMDTTGERSPSPLTGKVNQLELILRQLQTDLRKEKQDKA  
VLQAEVQHLRQDNMRLQEESQTATAQLRKFTWFFTTIDKKS

>sp|Q11201|SIA4A\_HUMAN CMP-N-acetylneuraminate-beta-galactosamide-alpha-2, 3-  
sialyltransferase 1 OS=Homo sapiens GN=ST3GAL1 PE=2 SV=1

MVTLRKRTLKVLTFVLVFIFLTSSFLNYSHTMVATTWFPKQMVLELSENKRLIKHRPCT  
CTHCIGQRKLSAWFDERFNQTMQPLLTAQNALLEDDTYRWWRLQREKKPNNLNDTIKEL  
FRVVPGNVDPMLEKRSVGCRRCAVVGNSGNLRESSYGPEIDSHDFVLRMNKAPTAGFEAD  
VGTKTTHHLVYPESFRELGDNVSMILVPFKTIDLEWVVS AITGTISHTYIPVPAKIRVK  
QDKILYHPAFIKYVFDNWLQGHGRYPSTGILSVIFSMHVCDEV DLYGFGADSKGNWHHY

WENNPSAGAFRKTGVHDAFESNVTATLASINKIRIFKGR

>sp|Q8NDV1|SIA7C\_HUMAN Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3  
OS=Homo sapiens GN=ST6GALNAC3 PE=2 SV=1

MACILKRKSVIAVSFIAAFLFLLVRLVNEVNFLLLNCFGQPGTKWIPFSYTYRRPLRT  
HYGYINVKTQEPLQLDCDLCAIVSNSGQMVGGKVGNEIDRSSCIWRMNNAPTKGYEEDVG  
RMTMIRVVSHTSVPLLLKNPDYFFKEANTTIYVIWGPFRNMRKDGNGIVYNMLKKTVGIIY  
PNAQIYVTTEKRMSYCDGVFKKETGKDRVQSGSYLSTGWFTFLLAMDACYGIHVYGMIND  
TYCKTEGYRKVPYHYEYQGRDECDEYFLHEHAPYGGHRFITEKKVFAKWAKKHRIIFTHP  
NWTLS

>sp|Q969X2|SIA7F\_HUMAN Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6  
OS=Homo sapiens GN=ST6GALNAC6 PE=1 SV=1

MACSRPPSQCEPTSLPPGPPAGRRHLPLSRRRREMSSNKEQRSVVFILFALITILILYS  
SNSANEFVHYGSLRGRSRRPVNLKKWSITDGYVPILGNKTLPSRCHQCVIVSSSSHLLGT  
KLGPEIERAECTIRMNDAPTTGYSADVGNKTTYRVVAHSSVFRVLRRPQEFVNRTPETVF  
IFWGPPSKMQKPQGS�VRVIQRAGLVFPNMEAYAVSPGRMRQFDDLFRGETGKDREKSHS  
WLSTGWFTMVIARELCHVHVYGMVPPNYCSQRPRLQRMPIHYEYEPKGPDECVTYIQNEH  
SRKGNHHRFITEKRVFSSWAQLYGITFSHPST

>sp|Q92187|SIA8D\_HUMAN CMP-N-acetylneuraminate-poly-alpha-2,8-sialyltransferase OS=Homo  
sapiens GN=ST8SIA4 PE=1 SV=1

MRSIRKRWTICTISLLLIFYKTEIARTEEHQETQLIGDGELSLSRSLVNSSDKIIRKAG  
SSIFQHNVGKWINSSLVLEIRKNILRFLDAERDVSVKSSFKPGDVIHYVLDRRRTLNI  
SHDLHSLLEPVSPMKNRRFKTCAVVGNSGILLDSECGKEIDSHNFVIRC�LAPVVEFAAD  
VGTKSDFITMNPSVVQRAFGGFRNESDREKFVHRLSMLNDSVLWIPAFMVKGGEKHVEWV  
NALILKNKLKVRTAYPSRLIHAVRGYWLTKVPIKRPSTGLLMYTLATRFCDEIHLYGF  
WPFPKDLNGKAVKYHYDDLKYRYFSNASPHRMPLEFKTLNVLHNRGALKLTGKCVKQ

>sp|Q6IA17|SIGIR\_HUMAN Single Ig IL-1-related receptor OS=Homo sapiens GN=SIGIRR PE=1  
SV=3

MPGVCDRAPDFLSPSEDQVLRPALGSSVALNCTAWVVSOPHCSLPSVQWLKDGLPLGIGG  
HYSLEHYSWVKANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNISFSSFTLQRAGPTSHVA  
AVLASLLVLLALLLAALLYVKCRNLVLLWYQDAYGEVEINDGKLYDAYVSYSDCPEDRK  
FVNFIKPKQLERRRGYKFLDDRDLPRAEPSADLLVNLSRCRRLIVLSDAFLSRAWCSH  
SFREGLCRLLELTRRPIFITFEGQRRDPAHPALRLRQHRHLVTLWRPGSVTPSSDFW  
KEVQLALPRKVQYRPVEGDPQTQLQDDKDPMLILRGRVPEGRALDSEVDPDPEGDLGVRG  
PVFGEPSAPPHTSGVSLGESRSSEVDVSDLSGRNYSARTDFYCLVSKDDM

>sp|043699|SIGL6\_HUMAN Sialic acid-binding Ig-like lectin 6 OS=Homo sapiens GN=SIGLEC6  
PE=1 SV=2

MQGAQEASASEMLPLLLPLLWAGALAQERRFQLEGPESLTVQEGLCVLVPCRLPTTLPAS  
YYGYGYWFLEGADVPVATNDPDEEVQEETRGRFHLLWDPRRKNCSLSIRDARRDNAAFY  
FRLKSKWMKYGYTSSKLSVRVMALTHRPNISIPGTLESQHPSNLTCSPVWCEQGTPIIF  
SWMSAAPTSLGPRTTQSSVLTITPRPDHSTNLTCQVTFPGAGVTMERTIQLNVSYAPQK  
VAISIFQGNAAFKILQNTSSLPVLEGQALRLLCDADGNPPAHLSPWFQGFALNATPISN  
TGVLELPQVGSAAEGDFTCRAQHPLGSLQISLSLFVHWKPEGRAGGVLGAVWGASITTLV  
FLCVCIFIRVKTRRKAAQPVQNTDDVNPVMVSGSRGHQHGFQTGIVSDHPAEAGPISED  
EQELHYAVLHFHKVQPQEPKVTDEYSEIKIHK

>sp|K7EJ46|SIM22\_HUMAN Small integral membrane protein 22 OS=Homo sapiens GN=SMIM22 PE=2 SV=1

MAVSTEELEATVQEVLGRLKSHQFFQSTWDTVAFIVFLTFMGTVLLLLLLVVAHCCCCSS  
PGPRRESPRKVSPWKVSPAGLWDLHGTVLGVEAEGEGSGGKGAHPPREQANLLGPAVLL  
VQERPKGVDNLALEP

>sp|Q14190|SIM2\_HUMAN Single-minded homolog 2 OS=Homo sapiens GN=SIM2 PE=1 SV=2

MKEKSKNAAKTRREKENGEFYELAKLLPLPSAITSQLDKASIIRLTTSYLKMRAVFPEGL  
GDAWGQPSRAGPLDGVAKELGSHLLQTLDGFFVVASDGMKIMYISETASVHLGLSQVELT  
GNSIYEYIHPSDHDEMTAVLTAHQPLHHLLQEYEIERSFFLRMKCVLAKRNAGLTCSGY  
KVIHCSGYLKIRQYMLDMSLYDSCYQIVGLVAVGQSLPPSAITEIKLYSNMFMFRASLDL  
KLIFLDSRVTEVTGYEPQDLIEKTLYHHVHGCDVFHLRYAHLLLVKGGQVTTKYRLLSK  
RGGVWVWQSYATVHNSRSSRPHCIVSVNYVLTEIEYKELQLSLEQVSTAKSQDSWRTAL  
STSQETRKLVKPKNTKMKTCLRTPYPQQYSSFQMDKLECGQLGNWRASPPASAAAPPE  
LQPHSESSDLLYTPSYSLPFSYHYGHFPLDSHFVSSKKPMLPAKFGQPQGSPCEVARFFL  
STLPASGECQWHYANPLVPSSSPAKNPPEPPANTARHSLVPSYEAPAAAVRRFGEDTAP  
PSFPSCGHYREEPALGPAKAARQAARDGARLALARAPECCAPPTPEAPGAPQLPFVLL  
NYHRVLARRGPLGGAAPAASGLACAPGGPEAATGALRLRHPSPAATSPPGAPLPHYLGAS  
VIITNGR

>sp|Q96FS4|SIP1\_HUMAN Signal-induced proliferation-associated protein 1 OS=Homo sapiens GN=SIP1 PE=1 SV=1

MPMWAGGVGSPRRGMAPASTDDLFAKRLRQPARPPLTPHTFEPRPVRGPLLRSGSDAGEA  
RPPTPASPRARAHSEEEASRPAATSTRLFTDPLALLGLPAEEPEPAFPPVLEPRWFAHYD  
VQSLLFDWAPRSQGMGSHSEASSGTLASAEDQAASSDLLHGAPGFVCELGGEGELGLGGP  
ASPPVPPALPNAAVSILEEPQNRTSAYSLEHADLGAGYYRKYFYGKEHQNFFGMDES LGP  
VAVSLRREEKEGSGGGTLHSYRVIVRTTQLRTLRTGTISEDALPPGPPRGLSPRKLEHVA  
PQLSPSCLRLGSASPKVPRTLLTLDEQVLSFQRKVGILYCAGQGSEEMYNNQEAGPAF  
MQFLTLLGDVVRLLKGFESYRAQLDTKTDSTGTHSLYTTYQDHEIMFHVSTMLPYTPNNQQ  
QLLRKRHIGNDIVTIVFQEPGSKPFCPTTIRSHFQHVFLVRAHTPCTPHTTYRVAVSRT  
QDTPAFGPALPAGGGPFAANADFRAFLAKALNGEQAAGHARQFHAMATRTRQQYLQDLA  
TNEVTTTSLDSASRFGPLPSLGRRRAAPRGPAELQAAGSLVWGVRAAPGARVAAGA QAS  
GPEGIEVPCLLGISAELVLVAPRDGRVVFNCACRDVLAWTFSEQQLDLYHGRGEAITLR  
FDGSPGQAVGEVVARLQLVSRGCETRELALPRDQGRLGFEVDAEGFVTHVERFTFAETA  
GLRPGARLLRVCQTLP SLRPEAAAQLRSAPKVCVTVLPDESGRPRRSFSELYTSLQ  
EPSRRGAPDPVQDEVQGVTLPTTKQLLHLCLQDGGSPPGPD LAERTEFLHSQNSLSP  
RSSLSDEAPVLPNTTPDLLLATTAKPSVPSADSETPLTQDRPGSPSGSEDKGNPAPELRA  
SFLPRTL SLRNSISRIMSEAGSGTLEDEWQAISEIASTCNTILESLSREGQPIPIESGDPK  
GTPKSDAEPEPGLSEKVSHLESMRLKLQEDLQKEKADRAALEEEVRS LRHNNRRLQAES  
ESAATRLLLASKQLGSPTADLA

>sp|Q5JXA9|SIRB2\_HUMAN Signal-regulatory protein beta-2 OS=Homo sapiens GN=SIRPB2 PE=2 SV=1

MCSTMSAPTCLAHLPPCFLLLALVLVPSDASGQSSRNDWQVLQPEGPMLVAEGETLLLRC  
MVGSCTDGMIKWVKVSTQDQQEIYNFKRGSFPGVMPMIQRTSEPLNCDYSIYIHNVTRE  
HTGTYHCVRFDGLSEHSEMKSEGTSVLVKGAGDPEPDLWIIQPQELVLGTTGDTVFLNC  
TVLGDGPPGPIRWFQAGLSREAIYNFGGISHPKETAVQASNDFSILLQNVSSSEDAGTY



YCVKFQRKPNRQYLSGGTSLKVKAKSTSSKEAFTSEPATEMSPTGLLVVFAPVVLGLK  
AITLAALLLALATSRRSPGQEDVKTTPAGAMNTLAWSKGQE

>sp|P42285|SK2L2\_HUMAN Superkiller viralicidic activity 2-like 2 OS=Homo sapiens  
GN=SKIV2L2 PE=1 SV=3

MADAFGDELFSVFEGDSTTAAGTKKDKKDKGKWKGGPPGSADKAGKRFDGKLQSESTNNG  
KNKRVDVFEGTDEPIFGKKPRIEESITEDLSLADLMPRVKVQSVETVEGCTHEVALPAEE  
DYLPLKPRVGKAAKEYPFILDAFQREAIQCVDNNQSVLVSATSAGKTVCAEYAIALALR  
EKQRVIFTSPIKALSNQKYREMYEEFQDVGLMTGDVTINPTASCLVMTEILRSMLYRGS  
EVMREVAWVIFDEIHMYRDSERGVVWEETIILLPDNVHYVFLSATIPNARQFAEWICHLH  
KQPCHVIYTDYRPTPLQHYIFPAGGDGLHLVVDENGDFREDNFNTAMQVLRDAGDLAKGD  
QKGRKGGTKGSPNVFKIVKMIMERNFQPVIFSFSSKKDCEAYALQMTKLDNFNTDEEKKMV  
EEVFSNAIDCLSDDEKKLQVEHVLPLLKRIGIHHGGLLPILKETIEILFSEGLIKALF  
ATETFAMGINMPARTVLFNTARKFDGKDFRWISSGEYIQMSGRAGRGMDDRGIVILMVD  
EKMSPTIGKQLLKGSADPLNSAFHLTYNMVNLNLRVEEINPEYMLEKSFYQFQHYRAIPG  
VVEKVKNSEEQNKIVIPNEESVVIYYKIRQQLAKLGKEIEEYIHKPKYCLPFLQPGRLV  
KVKNEGDDFGWGVVNFSSKSNVKNPNSGELDPLYVVEVLLRCSKESLKNSEATEAAKPAKP  
DEKGEMQVVPVLVHLLSAISSVRLYIPKDLRPVDNRQSVLKSIEVQKRFDPGIPLLDPI  
DDMGIQDQGLKKVIQKVEAFEHRMYSHPLHNDPNLETVYTLCEKKAQIAIDIKSAKRELK  
KARTVLQMDCLKCRKRVLRRLGFATSSDVIEMKGRVACEISSADELLLTEMNFNGLFNDL  
SAEQATALLSCFVFQENSSEMPKLTEQLAGPLRQMCEAKRIAKVSAEAKLEIDEETYLS  
SFKPHLMDVVYTWTATGATFAHICKMTDVFEGSIIRCMRREELLRQMCQAAKAIGNTELE  
NKFAEGITKIKRDIVFAASLYL

>sp|Q8IX90|SKA3\_HUMAN Spindle and kinetochore-associated protein 3 OS=Homo sapiens  
GN=SKA3 PE=1 SV=2

MDPIRSFCGLRSLASTLDCETARLQRALDGEESDFEDYPMRILYDLHSEVQTLKDDVNI  
LLDKARLENQEGIDFIKATKVLMEKNSMDIMKIREYFQKYGYSPRVKKNVHEQEAINSD  
PELSNCENFQKTDVKDDLSDPPVASSCISEKSPRSPQLSDFGLERYIVSQVLPNPPQAVN  
NYKEEPVIVTPPTKQSLVKVLTKPKCALKMDDFECVTPKLEHFGISEYTMCLNEDYTMGL  
KNARNNKSEEAIDTESRLNDNVFATPSPIIQQLKSDAEYTN SPLVPTFCTPGLKIPSTK  
NSIALVSTNYPLSKTNSSNDLEVEDRTSLVNSDTCFENLTDPSPTISSYENLLRTPT  
PPEVTKIPEDILQLLSKYNSNLATPIAIKAVPPSKRFLKHGQNIRDVSNKEN

>sp|Q86WV1|SKAP1\_HUMAN Src kinase-associated phosphoprotein 1 OS=Homo sapiens GN=SKAP1  
PE=1 SV=3

MQAAALPEEIRWLLDAEEFLAEGLRNENLSAVARDHRDHILRGFQQIKARYYWDFQPQG  
GDIGQDSSDDNHSGTLGLSLTSDAPFLSDYQDEGMEDIVKGAQELDNVIKQGYLEKSKD  
HSFFGSEWQKRWCVVSRLFYYYANEKSKQPKGTFLIKGYGVRMAPHLRRDSKKESCFEL  
TSQDRRSYEFTATSPAARDWDQISFLLKDLSSLTIPYEEEEEEEEKEETYDDIDGFDS  
PSCGSQCRPTILPGSVGIKEPTTEEKEEEDIYEVLPDEEHDLEEDESGTRRKGVDYASYQQ  
GLWDCHGDQPDLSFQRGDLIRILSKEYNMYGWWVGELNSLVGIVPKEYLTATAFEVEER

>sp|Q96A28|SLAF9\_HUMAN SLAM family member 9 OS=Homo sapiens GN=SLAMF9 PE=2 SV=2

MCAFPWLLLLLLLQEGSQRRLLWRWCGSEEVAVLQESISLPLEIPPDEEVENIIWSSHKS  
LATVVPKGEGHPATIMVTNPHYQGQVSFLDPSYSLHISNLSWEDSGLYQAQVNLRTSQIS  
TMQYQNICVYRWLSEPQITVNFESSGEGACSM SLVCSVEKAGMDMTYSWLSRGDSTYTFH  
EGPVLSTSWRPGDSALSYTCRANNPISNVSSCPIPDPFYADPNYASEKPSTAFCLLAGK

LLIFLLLVILAMGLWVIRVQKRHKMPRMKKLMRNMKLRKEAKPGSSPA

>sp|Q9H2G2|SLK\_HUMAN STE20-like serine/threonine-protein kinase OS=Homo sapiens GN=SLK  
PE=1 SV=1

MSFFNFRKIFKLGSEKKKKQYEHVKRDLNPEDFWEIIGELGDGAFGKVYKAQNKETSVLA  
AAKVIDTKSEEELEDYMVEIDILASCDHPNIVKLLDAFYENNWLWILIEFCAGGAVDAVM  
LELERPLTESQIQVVCQTLDALNYLHDNKI IHRDLKAGNILFTLDGDIKLADFGVSAKN  
TRTIQRDSFIGTPYWMAPEVVMCETSKDRPYDYKADVWSLGITLIEMAEIEPPHELNP  
MRVLLKIAKSEPPTLAQPSRWSSNFKDFLKKCLEKNVDARWTTSQLQHFPVTVDSNKP I  
RELIAEAKAEVTEEVEDGKEEDEEEETENSLPIASKRASSDLSIASSEEDKLSQNACIL  
ESVSEKTERSNSDKLSKILNEKPTTDEPEKAVEDINEHITDAQLEAMTELHDRTAVIK  
ENEREKRPKLENLPDTEQETVDINSVSEGKNNIMITLETNIEHNLKSEEEKDQEKQQM  
FENKLIKSEEEKDTILQTVDLVSQETGEKEANIQAVDSEVGLTKEDTQEKLGEDDKTQKD  
VISNTSDVIGTCEAADVAQKVDEDSAEDTQSDNGKEVVEVGQKLINKPMVGPEAGGTKEV  
PIKEIVEMNEIEEGNKKEQAINSENIMDINEEPGTTEGEEITESSTEEMEVRSVVADT  
DQKALGSEVQDASKVTTQIDKEKKEIPVSIKKEPEVTVVSQPTQPVLIPSININSDSG  
ENKEEIGSLSKTETILPPESENPKENDNDSGTGSTADTSSIDLNLSISSFLSKTKDSGSI  
SLQETRQKKTLLKTRKFIVDGEVSVTTSKIVTSDSKTEELRFLRRQELRELRLQKE  
EQRAQQQLNSKLQQQREQIFRRFEQEMMSKKRQYDQEIENLEKQQKQTIERLEQEHTNRL  
RDEAKRIKGEQEKELSKFQNMMLKNRKKEVINEVEKAPKELRKELMKRRKEELAQSQHAQE  
QEFVQKQQQELDGLSKKIIQQQKAELANIERECLNNKQQLMRAREAAIWELEERHLQEKH  
QLLKQQLKDQYFMQRHQLLKRHEKETEQMQRYNQRLIEELKNRQTQERARLPKIQRSEAK  
TRMAMFKKSLRINSTATPDQDRDIKQFAAQEEKRQKNERMAHQKHENQMRDLQLQCEA  
NVRELHQLQNEKCHLLVEHETQKLKELDEEHSQELKEWREKLPRPKTLEEEFARKLQEQ  
EVFFKMTGESECLNPSTQSRISKFYPIPSLHSTGS

>sp|Q5VYV7|SLX4I\_HUMAN Protein SLX4IP OS=Homo sapiens GN=SLX4IP PE=1 SV=1

MASKKFAVKCGNFAVLVDLHILPQGSNKDTSWFSEQKKEEVCLLLKETIDSRVQEYLEVR  
KQHRPSNAEFTRSNPLSLKGYGFQITAYFLKRGIRLCIRSTQNAELCVFPDRFVVCVSQ  
LAFSRDLLASQNDLTERVLHGVSDFAECAESSLPSSAKLRNALKEIVKRTETKSSVT  
SKSQTRRDTVETSSDVAIEIARRRNDGQASSPPSESMGQAKDSIKAAESHWGLPVQKL  
EKVNQTPEDTSGQKPHPGERLKTGLLSRSPVCSCESASPCPKQSPRAKTQQKRRNCS  
SAEDFDHHGRVSLGSDRLVPREIIVEKSKAVRVLPASELSDPGLLLKQDLAKTTSKEELH  
VLESLSSRHLMKNNPGAAQQTGLATNTERLSTIQNSPTKKRKKYERGH

>sp|Q9Y6J3|SMA50\_HUMAN SMAD5 antisense gene protein 1 OS=Homo sapiens GN=SMAD5-AS1 PE=2  
SV=1

MHKQPKLLPPPATPPPPQSSWSGNIVFTIKINIWLRFVSHSSPTGLPKPHSPMPSPPE  
PEHSVKGKANVQIPQVSSPEFCNQKSVLATEHAQT

>sp|Q15797|SMAD1\_HUMAN Mothers against decapentaplegic homolog 1 OS=Homo sapiens GN=SMAD1  
PE=1 SV=1

MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQ  
PSNCVTIPRSLDGRQLQVSHRKGPHV IYCRVWRWPDQLSHHELKPLECCEFPFGSKQKEV  
CINPYHYKRVESPVLPVLPVRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPN  
SHPPHSPNSSYPNSPGSSSYPHSPTSSDPGSPFQMPADTPPPAYLPPEDPMTQDGSQ  
PMDTNMMAPLPSEINRGDVQAVAYEEPKHWCIVYYELNNRVGEAFHASSTSVLDGFT  
DPSNNKNRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNC

NYHHGFHPTTVCKIPSGCSLKIFNNQFAQLLAQSVNHGFETVYELTKMCTIRMSFVKGW  
GAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTMGSPHNPISSVS

>sp|P38935|SMBP2\_HUMAN DNA-binding protein SMUBP-2 OS=Homo sapiens GN=IGHMBP2 PE=1 SV=3

MASAAVESFVTKQLDLELERDAEVEERRSWQENISLKEQLSRGVCLLKLQVSSQRTGLY  
GRLLVTFEPRRYGSAALPSNSFTSGDIVGLYDAANEGSQLATGILTRVTQKSVTVAFDE  
SHDFQLSLDRENSYRLLKLANDVTYRRLKKALIALKKYHSGPASSLIEVLFGRSAPSPAS  
EIHPLTFFNTCLDTSQKEAVLFALSQKELAIIHGPPGTGKTTTVVEIILQAVKQGLKVL  
CAPSNIAVDNLVERLALCKQRILRLGHPARLLESIQQHSLDAVLARSDSAQIVADIRKDI  
DQVFVNKKTQDKREKSNFRNEIKLLRKELKEREEAAMLESLTSANVVLATNTGASADGP  
LKLLPESYFDVVVIDECAQALEASCWIPLLKARKCILAGDHKQLPPTTVSHKAALAGLSL  
SLMERLAEYGARVVRTLTQVYRMHQAIMRWASDTMYLGQLTAHSSVARHLLRDLPGVAA  
TEETGVPLLLVDTAGCGLFELEEEDEQSKGNPGEVRLVSLHIQALVDAGVPARDIAVVSP  
YNLQVDLLRQSLVHRHPELEIKSVDFQGREKEAVILSFVRSNRKGEVGFLAEDRRINVA  
VTRARRHVAVICDSRTVNNHAFKLTLVEYFTQHGEVRTAFEYLDDIVPENYSHENSQGSS  
HAATKPQGPATSTRTGSQRQEGGQEAAPARQGRKKPAGKSLASEAPSQPSLNGGSPGV  
ESQDGVDFRAMIVEFMASKKMQLEFPFSLNSHDRLRVHQIAEEHGLRHDSSGEGKRRFI  
TVSKRAPRPRAALGPPAGTGGPAPLQVPPTPAQTEQPPREQRQPDQPDRLTLHLERLQR  
VRSAGQPASKEQQASGQQKLEPKKKKKAKGHPATDLPTTEEDFEALVSAAVKADNTCGFA  
KCTAGVTTLGQFCQLCSRRYCLSHHLPEIHGCGERARAHARQRISREGVLYAGSGTKNGS  
LDPAKRAQLQRRLDKKLSELSNQRTSRRKERGT

>sp|Q8NDV3|SMC1B\_HUMAN Structural maintenance of chromosomes protein 1B OS=Homo sapiens  
GN=SMC1B PE=2 SV=2

MAHLELLLVENFKSWRGRQVIGPFRRTFCIIGPNGSGKSNVMDALSFVMGEKIANLRVKN  
IQELIHGAHIGKPISSSASVKIIVVEESGEEKTFARIIRGGCSEFRFNDNLVSRSVYIAE  
LEKIGIIVKAQNCLVFQGTVESISVKKPKERTQFFEEISTSGELIGEYEEKRKLKAAEE  
DAQNFNKKKNIAAERRQAKLEKEEAERYQSLEELKMNKIQLQLFQLYHNEKKIHLNLT  
KLEHVNRDLSVKRESLSHHENIVKARKKEHGMLTRQLQQTEKELKSVETLLNQKRPQYIK  
AKENTSHHLKKLDVAKSISKDSEKQCSKQEDDIKALETELADLDAAWRSFEKQIEEEILH  
KKRDIELEASQLDRYKELKEQVRKKVATMTQQLEKLQWEQKTDEERLAFEKRRHGEVQGN  
LKQIKEQIEDHKKRIEKL EYTKCMDCLKEKKQEEETLVDEIEKTKSRMSEFNEELNLI  
RSELQNAGIDTHEGRQKQKRAEVLHLKRLYPDSVFGRLFDLCHPIHKKYQLAVTKVFGR  
FITAIIVVASEKVAKDCIRFLKEERAEPETFLALDYLDIKPINERLRELKGCKMVIDVIKT  
QFPQLKKVIQFVCGNGLVCETMEEARHIALSGPERQKTVALDGTFLKSGVISGGSSDLK  
YKARCWDEKELKNLRDRRSQKIQELKGLMKTLRKETDLKQIQTLIQGTQTRLKYSQNELE  
MIKKKHLVAFYQEQSQLQSELLNIESQCIMLSEGIKERQRRIKEFQEKIDKVEDDIFQHF  
CEEIGVENIREFENKHVKRQEQIDQKRYFYKKMLTRLNVQLEYSRSHLKKKLNKINTLKE  
TIQKGSIEDHLKKAENCLQTVNELMAKQQQLKDIRVTQNSSAEKVQTQIEEERKKFLA  
VDREVGKLQKEVVSIIQTSLEQKRLEKHNLDDCKVQDIEIILLSGSLDDIIEVEMGTEAE  
STQATIDIYEKEEAFEIDYSSLKEDLKALQSDQETEAHLRLLLQQVASQEDILLKTAAPN  
LRALENLKTVRDKFQESTDAFEASRKEARLCRQEFQVKKRRYDLFTQCFEHVSISIDQI  
YKKLCRNNSAQAFSPENPEEPYLEGISYNCAVPGKRFMPMDNLSGGEKCVAAALALLFAV  
HSFRPAPFFVLDEVDAALDNTNIGKVSSYIKEQTQDQFQMIVISLKEEFYSRADALIGIY  
PEYDDCMFSRVLTLDSLQYPDTEGQESSKRHGESR

>sp|Q9UQE7|SMC3\_HUMAN Structural maintenance of chromosomes protein 3 OS=Homo sapiens  
GN=SMC3 PE=1 SV=2

MYIKQVVIQGFRRSYRDTIVDPFSSKHNVIVGRNGSGKSNFFYAIQFVLSDEFSHLRPEQ  
RLALLHEGTGPRVISAFVEIIFDNSDNRLPIDKEEVSRLRRVIGAKKDQYFLDKMVTKND  
VMNLLESAGFSRSPYYIVKQGKINQMATA PD SQRLKLLREVAGTRVYDERKEESISLMK  
ETEGKREKINELLKYIEERLHTLEEEKEELAQQYQKWDKMRRALEYTIYNQELNETRAKLD  
ELSAKRETSGEKSRQLRDAQDQDARDKMEDIERQVRELKTKISAMKEEKEQLSAERQEQIK  
QRTKLELKAKDLQDELGNSEQRKRLKERQKLEKIEEKQKELAETEPKFNSVKEKEER  
GIARLAQATQERTDLYAKQGRSGFTSKEERDKWIKKELSLDQAINDKKRQIAAIIHKDL  
EDTEANKEKNLEQYNKLDQDLNEVKARVEELDRKYIEVKNNKDELQSERNYLWREENAEQ  
QALAAKREDLEKKQQLLRAATGKAILNGIDSINKVLDHFRKGINQHVQNGYHGI VMNNF  
ECEPAFYTCVEVTAGNRLFYHIVDSDEVSTKILMEFNKMNLPGEVTFPLNKL DVRTAY  
PETNDAIPMISKLRYNPRFDKAFKHVFGKTLICRSMEVSTQLARAFTMDCITLEGDQVSH  
RGALTGGYYDTRKSRLELQKDVRAEEELGELEAKLNENLRRNIERINNEIDQLMNQMQQ  
IETQQRKFASRDSILSEMKMLKEKRQQSEKTFMPKQSRSLQSLEASLHAMESTRESLKA  
LGTDLSSQLSLEDQKRV DALNDEIRQLQQENRQLLNERIKLEGIITRVETYLNENLRKRL  
DQVEQELNELRETEGGTVLTATTSELEAINKRVKDTMARSEDLDNSIDKTEAGIKELQKS  
MERWKNMEKEHMDAINHDTKELEKMTNRQGMLLKKKEECMKKIRELGSLPQEA FEKYQTL  
SLKQLFRKLEQCNTLKKYSHVNKKALDQFVNFSEQKEKLIK RQEELDRGYKSIMELMN  
LELRKYEAIQLTFKQVSKNFSEVFQKLVPGGKATLVMKKGDVEGSQSQDEGE GSGESER  
SGSQSSVPSVDQFTGVGIRVSFTGKGEMREMQLSGGQKSLVALALIFAIQKCDPAPFY  
LFDEIDQALDAQHRKAVSDMIMELAVHAQFITTTFRPELLESADKFYGVKFRNKVSHIDV  
ITAEMAKDFVEDDTHG

>sp|Q8TAQ2|SMRC2\_HUMAN SWI/SNF complex subunit SMARCC2 OS=Homo sapiens GN=SMARCC2 PE=1  
SV=1

MAVRKKDGGPNVKYEEAADTVTQFDNVRLWLGNKYKYYIAEPPTNKSLSLVVQLLQFQ  
EEVFGKHVSNAPLTKLPKCFDLFKAGGSLCHILAAAYKFKSDQGWRRYDFQNPSRMDRN  
VEMFMTIEKSLVQNNCLSRPNIFLCPEIEPKLLGKLKDI IKRHQGTVTEDKNNASHVVYP  
VPGNLEEEEWVRPVMKRDKQVLLHWGYYPDSYDTWIPASEIEASVEDAPTPEKPRKVHAK  
WILDTDTFNEWMNEEDYEVNDDKNPVSRKKISAKTLTDEVNSPDSRRD KKGNYKRRK  
RSPSPSPTPEAKKNNAKGPSTPYTKSKRGHREEEQEDLT KDMDPSPVPNVEEVLTKT  
VNTKKDSAPVKG GTMTDLDEQEDESMTTGKDEDENSTGNKGEQTKNPD LHEDNVT EQ  
THHIIIPSYAAWFDYNSVHA IERRALPEFFNGKNKSKTPEIYLAYRNF MIDTYRLNPQEY  
LTSTACRRNLAGDVCAIMRVHAFLEQWGLINYQVDAESRPTPMGPPPTSHFHV LADTPSG  
LVPLQPKTPQQT SASQQLNFPDKGKEKPTDMQNFGLRTDMYTKKNVPSKSKAAASATRE  
WTEQETLLLLLEALEMYKDDWNKVSEHVGSR TQDECILHFLRLPIEDPYLEDSEASLGPLA  
YQPIPFSSQSGNPVMSTVAFLASVVDPRVASAAKSALEEF SKMKKEEVP TALVEAHVRKVE  
EAAKVTGKADPAFGLESSGIAGTTSDEPERIEESGNDEARVEGQATDEKKEPKEPREGGG  
AIEEEAKEKTSEAPKKDEEKGEKGDSEKESKSDGDPIDPEKEKEPKEGQEEVLKEVVE  
SEGERKTKVERDIGEGLNSTAAAAALAAA AVKAKHLAAVEERKIKSLVALLVETQMKKLE  
IKLRHFEELETIMDREREAL EYQRQQLADRQAFHMEQLKYAEMRARQQHFQ QMHQQQQQ  
PPPALPPGSQPIPTGAAGPPAVHGLAVAPASVVPAPAGSGAPPGSLGPSEQIGQAGSTA  
GPQQQQPAGAPQPGAVPPGVPPGPHGPSFPFNQQT PPSMMPGAVPGSGHPGVAGNAPLG  
LPFGMPPPPPPPAPSII PFGLSADSI SINLPAPPNLHGHHHHL PFAPGTLPPP NLPV SMA

NPLHPNLPATTTMPSSSLPLGPGLGSAAAQSPAIVA AVQGNLLPSASPLDPGTPLPPDPT  
APSPGTVTPVPPPQ

>sp|Q92925|SMRD2\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily D member 2 OS=Homo sapiens GN=SMARCD2 PE=1 SV=3

MSGRGAGGFPLPPLSPGGGAVAAALGAPPPAGPGMLPGPALRGPGAGGVGGPGAAAFR  
PMGPAGPAAQYQRPGMSPGNRMPMAGLQVGPPAGSPFGAAAPLRPGMPPTMMDPFRKRL  
VPQAQPPMPAQRRGLKRRKMADKVLPQRIRELVPESEQAYMDLLAFERKLDQTIARKRMEI  
QEAICKPLTQKRKLRIYISNTFSPSKAEGDSAGTAGTPGGTPAGDKVASWELRVEGKLLD  
DPSKQKRKFSSFFKSLVIELDKELYGPDNHLVEWHRPMTTQETDGFQVKRPGDLNVKCTL  
LLMLDHQPPQYKLDPRLARLLGVHTQTRAAIMQALWLYIKHNQLQDGHREYINCNRIFR  
QIFSCGRLRFSEIPMKLAGLLQHPDPIVINHVISVDPNDQKKTACYDIDVEVDDPLKAQM  
SNFLASTTNQEEIASLDVKIHETIESINQLKTQRDFMLSFSTDPQDFIQEWLRSQRRDLK  
IITDVIGNPEEERRAAFYHQPWAQEA VGRHIFAKVQQRQEELEQVLGIRLT

>sp|Q2TAL5|SMTL2\_HUMAN Smoothelin-like protein 2 OS=Homo sapiens GN=SMTNL2 PE=2 SV=1

MEPAPDAQEARTVREALGRYEAALGAVRALHEDMRGLQRGVERRVAEAMRLAGPLARTV  
ADLQRDNQRLQAQLERLTRQVEALGLASGMSVPVPGTPGTPSPPPAPGVDPDRAPRLGSARF  
ASHATFSLSGRGQSLDHDEASESEMRKTSNSCIMENGHPGAGPGDGPPEIAQNFSAPDP  
PRPRPVSLSLRLPHQPVTAITRVSDRFSGETSAAALSPMSAATLGLNPSPSEVITPWT  
SPSEKNSSFTWVSPSSGYGAVTASKHSNSPPLVTPPQSPVSPQPPAITQVHRQGERREL  
VRSQTLPRTSEAQARKALFEKWEQETAAGKGKGARARLKRSQSFVASASSIKQILLEW  
CRSKTLGYQHVDLQNFSSWSGMAFCALVHSFFPDADFYNLSPTQRQKNFELAFDMAE  
NLANCERLIEVEDMMVMGRKPDPMCFTYVQSLYNHLRRFE

>sp|P53814|SMTN\_HUMAN Smoothelin OS=Homo sapiens GN=SMTN PE=1 SV=7

MADEALAGLDEGALRKLEVTADLAERRRIRSAIRELQRQELEREEALASKRFRAERQD  
NKENWLHSQQREAEQRAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRA  
QEIEAATLAGRLYSGRPNSGSKGLAAHRLQCEVPEREEQEQQAQEVSKPTPTPEGT  
SQDVTVTLLLRAPPGSTSSSPASPSSTPASPEPPLEPAEAQCLTAEVPGSPEPPPPSP  
PKTTSPEPQESPTLPSTEGQVVKLLSGPKETPAAQSPTRGPSDKRADVAGPRPCQRSL  
SVLSPRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGTQQAALSPLT  
PARLLGPSLTSTTPASSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRG  
LAARPLENRAAGPVARSEEPGAPLPVAVGTAEPGSGMKTFTTIEIKDGRGQASTGRVLLP  
TGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVTHVTSFSSHAPSSRGG  
CSIKMEAEPAEPLAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST  
DFEERKLIRAAALRELQRKRDQRDKERERRLQEARGRPGEGRGTATETTTTHRSQRAADG  
SAVSTVTKTERLVHSNDGTRTARTTTVESSFVRSENGSGSTMQTKTFSSSSSSKKMGS  
IFDREDQASPRAGSLAALEKQAEKKELMKAQSLPKTSASQARKAMIEKLEKEGAAGSP  
GGPRAAVQRSTSGFVNPANSIKQMLLDWCRAKTRGYEHVDIQNFSSWSGMAFCALVHN  
FFPEAFDYGQLSPQNRQNFVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPKCVFTYVQS  
LYNHLRRHELRLRGKNV

>sp|Q8NB12|SMYD1\_HUMAN Histone-lysine N-methyltransferase SMYD1 OS=Homo sapiens GN=SMYD1  
PE=1 SV=1

MTIGRMENVEVFTAEGKGRGLKATKEFWAADIIFAERAYSAVVFDLNVFVCHTCFKRQE  
KLHRCGQCKFAHYCDRTCQKDAWLNHNKNECSAIKRYGKVPNENIRLAARIMWRVEREGTG  
LTEGCLVSVDDLQNHVEHFGEQKDLRVDVDTFLQYWPPQSQQFSMQYISHIFGVINCN

GFTLSQQRGLQAVGVGIFPNLGLVNHDCWPNCTVIFNNGNHEAVKSMFHTQMRIELRALG  
KISEGEELTVSYIDFLNVSEERKRQLKKQYYFDCTCEHCQKKLKDDLFLGVKDNPKPSQE  
VVKEMIQFSKDTLEKIDKARSEGLYHEVVKLCRECLEKQEPVFADTNIYMLRMLSIVSEV  
LSYLQAFEEASFYARRMVDGYMKLYHPNNAQLGMAVMRAGLTNWHAGNIEVGHGMICKAY  
AILLVTHGPSHPITKDLEAMRVQTEMLRMFRQNEFMYKMR EAALNNQPMQVMAEPSNE  
PSPALFHKKQ

>sp|Q9H7B4|SMYD3\_HUMAN Histone-lysine N-methyltransferase SMYD3 OS=Homo sapiens GN=SMYD3  
PE=1 SV=4

MEPLKVEKFATAKRGNGLRVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCLLGKEKLM  
RCSQCRVAKYCSAKCQKKA WPDHKRECKCLKSCKPRYP PDSVRLGRVVFKLMDGAPSES  
EKLYSFYDLESNINKLTEDKKEGLRQLVMTFQHFMREEIQDASQLPPAFDLFEAFKVIC  
NSFTICNAEMQEVGVGLYPSISLLNHSCDPNCSIVFNPHLLLRAVRDIEVGEELTICYL  
DMLMTSEERRKQLRDQYCFECDFCRCQTQDKDADMLTGDEQVWKEVQESLKKIEELKAHW  
KWEQVLAMCQAISSNSERLPDINIYQLKVLDACINLGLLEEALFYGTRTMEPYRI  
FFPGSHPVRGVQVMKVGKQLLHQGMFPQAMKNLRLAFDIMRVTHGREHSLIEDLILLLEE  
CDANIRAS

>sp|P54920|SNAA\_HUMAN Alpha-soluble NSF attachment protein OS=Homo sapiens GN=NAPA PE=1  
SV=3

MDNSGKEAEAMALLAEAERKVKNSQSFFSGLFGSSKIEEACEIYARAANMFMAKNWSA  
AGNAFCQAAQLHLQLQSKHDAATCFVDAGNAFKKADPQEAINCLMRAIEIYTMGRFTIA  
AKHHISIAEIIYETELVDIEKAI AHYEQSADYYKGEESNSSANKCLLKVAGYAALLEQYQK  
AIDIYEQVGTNAMDSPLLKYSADYFFKAALCHFCIDMLNAKLAVQKYEELFPAFSDSRE  
CKLMKKLLEAHEEQNVDSYTESVKEYDSISRDLQWLT TMLLRIKKTIQGD EEDLR

>sp|Q9H115|SNAB\_HUMAN Beta-soluble NSF attachment protein OS=Homo sapiens GN=NAPB PE=1  
SV=2

MDNAGKEREAVQLMAEAEKRVKASHSFLRGLFGGNTRIEEACEMYTRAANMFMAKNWSA  
AGNAFCQAAKLHMLQLQSKHDSATS FVDAGNAYKKADPQEAINCLNAAIDIYTMGRFTIA  
AKHHITIAEIIYETELVDIEKAI AHYEQSADYYKGEESNSSANKCLLKVAAYAAQLEQYQK  
AIEIYEQVGANTMDNPLLKYSADYFFKAALCHFIVDELNAKLALEKYEEMFPAFTDSRE  
CKLLKKLLEAHEEQNSEAYTEAVKEFDSISRDLQWLT TMLLRIKKSIQGDGEGDGLK

>sp|Q9NY99|SNTG2\_HUMAN Gamma-2-syntrophin OS=Homo sapiens GN=SNTG2 PE=1 SV=2

MGTEGPPPPAASRGRQGCLLPARTKTTIALLYDEESENAYDIRLKLKEVLTIQKQDVV  
CVGGSHQGRNRRTVTLRRQPVGGLGLSIKGGSEHNVPVVISKIFEDQAADQTGMLFVGDA  
VLQVNGIHVENATHEEVHLLRNAGDEV TITVEYLREAPAFKLKPLGSPGPSSDHSSGAS  
SPLFDSGLHLNGNSTTAPSSPSSI AKDPRYEKRWDLTSLVPLSMARISRYKAGTEKLR  
WNAFEVLALDGVSSGILRFYTAQDGTDLRAVSANIRELT LQNMKMANCCSPSDQVVHM  
GWVNEKLQGADSSQTFRPKFLALKGPSFYVFSTPPVSTFDWVRAERTYHLCEVLFKVHKF  
WLTEDCWLQANLYLGLQDFDFEDQRPYCFSIVAGHGKSHVFNVELGSELAMWEKSFQRAT  
FMEVQRTGSRTYMC SWGEMLCFTVDFALGFTCFESKTKNVLWRFKFSQLKGSSDDGKTR  
VKLLFQNLDTKQIETKELEFQDLRAVLHCIHSFIAAKVASVDPGFMDSQSLARKYMYSS

>sp|B1AK76|SNUFL\_HUMAN Putative SNURF-like protein OS=Homo sapiens GN=SNURFL PE=5 SV=2

MEQARDHLHLRWTTEQHMEVEVQVKYRTAALSNQECQLYLRHSQQQQLVVDVFQAKLRQ  
VFITETPRCGKKPYWNNEEAESKQNP GSIYCLLLLIRGGMSDSLIREISNFEIVSKNKK

N

>sp|P57768|SNX16\_HUMAN Sorting nexin-16 OS=Homo sapiens GN=SNX16 PE=1 SV=2

MATPYVPVPMPIGNSASSFTTNRNRSSSFGSVSTSSNSSKGQLEDNMGNFKQTSVPDQ  
MDNTSSVCSSPLIRTKFTGTASSIEYSTRPRDTEEQNPETVNWEDRPSTPTILGYEVMEE  
RAKFVTVYKILVKKTPESWVVFRRYTDFSRLNDKLKEMFPGFRLALPPKRWFKDNYNADF  
LEDRLGLQAFLQNLVAHKDIANCLAVREFLCDDPPGPFDSLEESRAFCEETLEETNYRL  
QKELLEKQKEMESLKKLLSEKQLHIDTLENRIRTLSLEPEESLDVSETEGEQILKVESSA  
LEVDQDVLDEESRADNKPCLSFSEPENAVSEIEVAEVAYDAEED

>sp|Q13596|SNX1\_HUMAN Sorting nexin-1 OS=Homo sapiens GN=SNX1 PE=1 SV=3

MASGGGCSASERLPPFPGLPESEGAAGGSEPEAGSDTEGEDIFTGAAVVSKHQSPK  
ITTSLLPINNGSKENGIHEEQDQEPQDLFADATVELSLDSTQNNQKKVLAKTLISLPPQE  
ATNSSKPQPTYEELEEEQEDQFDLTVGITDPEKIGDGMNAYVAYKVTQTSLPLFRSKQ  
FAVKRRFSDFLGLYEKLSEKHSQNGFIVPPPPEKSLIGMTKVKGKEDSSSAEFLEKRRA  
ALERYLQRIVNHPTMLQDPDVREFLEKEELPRAVGTQTLGAGLLKMFNKATDAVSKMTI  
KMNESDIWFEEKLQEVECEEQRLRKLHAVVETLVNHRKELALNTAQFAKSLAMLGSSDN  
TALSRLSQLAEVEEKIEQLHQEQANNDFFLLAELLSDYIRLLAIVRAAFDQRMKTWQRW  
QDAQATLQKKREAEARLLWANKPDKLQAKDEILEWESRVTQYERDFERISTVVRKEVIR  
FEKEKSKDFKNHVIKYLETLTLLYSQQQLAKYWEAFLPEAKAIS

>sp|Q96L94|SNX22\_HUMAN Sorting nexin-22 OS=Homo sapiens GN=SNX22 PE=1 SV=1

MLEVHIPSVGPEAEGPRQSPEKSHMVFRVEVLCSGRRHTVPRRYSEFHALHKRIKKLYKV  
PDFPSKRLPNWRTRGLEQRRQGLEAYIQGILYLNQEVPKELLEFLRLRHFTDPKASNWG  
TLREFLPGDSSSQHQRPVLSFHVDYVNCNPSPESLPNVVVNGVLQGLYSFSISPDKAQP  
KAACHPAPLPPMP

>sp|P04179|SODM\_HUMAN Superoxide dismutase [Mn], mitochondrial OS=Homo sapiens GN=SOD2  
PE=1 SV=2

MLSRVCGTSRQLAPALGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVN  
NLNVTEEKYQEALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEA  
IKRDFGSFDKFKEKLTAASVGVQSGSGWGLGFNKERGHQLIAACPNQDPLQGTGLIPLL  
GIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYMACKK

>sp|Q8IXZ3|SP8\_HUMAN Transcription factor Sp8 OS=Homo sapiens GN=SP8 PE=1 SV=3

MLAATCNKIGSPSPSSSLSDSSSSFGKGFHPWKRSSSSSSASCNVVGSSLSFGVSGAS  
RNGGSSSAAAAAAAAAAAAALVSDSFSCGGSPGSSAFSLTSSSAAAAAAAAAAAASSP  
FANDYSVFQAPGVSGSGGGGGGGGGSSAHSQDGSHPVFISKVHTSVDGLQGIYPRVG  
MAHPYESWFKPSHPGLGAAGEVGSAGASSWWDVGAGWIDVQNPNSAAALPGSLHPAAGGL  
QTSLSPLGGYNSDYSGLSHSAFSSGASSHLLSPAGQHLMDFGPKPVLPGSYPDSAPSPLA  
GAGGSMLSAGPSAPLGGSPRSSARRYSGRATCDCPNCQEAERLGPAGASLRRKGLHSCHI  
PGCGKVYGKTSHLKAHLRWHTGERPFVCNWLFCGKRFTSDELQRHLRTHTGEKRFACPV  
CNKRFMRSDHLSKHVKTHSGGGGGGSAGSGSGGKKGSDTDEHSAAGSPCHSPELLQP  
PEPGHRNGLE

>sp|Q96KW9|SPAC7\_HUMAN Sperm acrosome-associated protein 7 OS=Homo sapiens GN=SPACA7 PE=1  
SV=2

MAVSQGDGTLCFVLLCCWQETELRPRTVIPGSPTEIPFSSKQEDMSELLDEILVQEILD  
LNKTTPEMPSTASTLSTPLHAGIDENYQAGGSENYHELLENLQFSPGIEVKISNDEANA  
NANLHGDPSENYRGPQVSPGSEKSVSSKEKNSKNTQYENLSILDQILQNIQRSSGNIFHK  
EQQR TSAQRRSQGSQ

>sp|Q96R06|SPAG5\_HUMAN Sperm-associated antigen 5 OS=Homo sapiens GN=SPAG5 PE=1 SV=2

MWRVKKLSLSLSPSPQTGKPSMRTPRELTLQPGALTNSGKRSPACSSLTPSLCKLGLQE  
GSNNSSPVDFVNKRITDLSSEHFSHSSKWLETCQHESEDEQLDPIPIQISSTPKTSEEAVD  
PLGNMVKTIIVLPSPLGQQQDMIFEARLDTMAETNSISLNGPLRTDDLVREEVAPCMGD  
RFSEVAHVSEKPIFQESPSHLLSEPPNPCSEQLHCSKESLSSRTEAVREDLVPSESNAF  
LPSSVLWLSPSTALAADFRVNHVDPEEEIVEHGAMEEREMRFPHPKESETEDQALVSSV  
EDILSTCLTPNLVEMESQEAPGPAVEDVGRILGSDTESWMSPLAWLEKGVNTSVMLLENLR  
QSLSLPSMLRDAAIGTTPFSTCSVGTWFTPSAPQEKSTNTSQTGLVGTKHSTSETEQLLC  
GRPPDLTALSRHDLNLLSSLVILEVLSRQLRDWKSQAVPHPETQDSSTQTDTSHSGI  
TNKLQHLKESHEMGQALQQARNVMQSWVLISKELISLLHLSLLHLEEDKTTVSQESRRAE  
TLVCCCFDLLKKLRAKLQSLKAEREEARHREEMALRGKDAEIVLEAFCAHASQRISQLE  
QDLASMREFRGLLKDAQTLVGLHAKQEELVQQTVSLTSTLQQDWRSMLDYTTWTALLS  
RSRQLTEKLTVKSQQALQERDVAIEEKQEVSRVLEQVSAQLEECKGQTEQLELENSRLAT  
DLRAQLQILANMDSQKELQSQHTHCAQDLAMKDELLCQLTQSNEEQAAQWQKEEMALKH  
MQAELQQQAVLAKEVRDLKETLEFADQENQVAHLELGGVEQQLKTTLEVLRRERSLQCEN  
LKDTVENLTAKLASTIADNQEQLDEKTRQYSQKGLLTEQLQSLTLFLQTKLKEKTEQET  
LLLSTACPPTQEHLPLNDRTFLGSLTAVADEEPESTPVPLLGSDFSAFTRVASMVSLQP  
AETPGMEESLAEMSIMTTELQSLCSLLQESKEEAIRTLQRKICELQARLQAQEEQHQEVEQ  
KAKEADIEKLNQALCLRYKNEKELQEVIQQQNEKILEQIDKSGELISLREEVTHLTRSLR  
RAETETKVLQALAGQLDSNCQPMATNWIQEKVWLSQEVDKLRVMFLEMKNEKEKLMIKF  
QSHRNILEENLRSDKELEKLLDDIVQHIYKTLTSLPEVVRGCKELQGLLEFLS

>sp|Q99932|SPAG8\_HUMAN Sperm-associated antigen 8 OS=Homo sapiens GN=SPAG8 PE=1 SV=2

METNESTEGSRSRSLDIQPSSEGLGPTSEPFPSDDSPRSALAAATAAAAAAASAAAA  
TAAFTTAKAAALSTKTPAPCFMEPSSDPSLLGEPGAGPGFTHNIAHGSLGFEPVYVSC  
IAQDTCTTTHSSNPGPVPGSSSGPVLGSSSGAGHGSGSGSGPGCGSVPGSGSGPGPGSG  
PGSGPGHGSGSHPGPASGPGPDTGPDSELSPCIPPGFRNLVADRVPNYTSWSQHCPWEPQ  
KQPPWEFLQVLEPGARGLWKPPDIKGLMVCYETLPRGQCLLYNWEERATNHLDQVPSM  
QDGSESFRRHGRGLLTMQLKSPMPSSTTQKDSYQPPGNVYWPLRGKREAMLEMLLQH  
ICKEVQAEQEPTRKLFEEVSVTHHDYRMELAQAGTPAPTKPHDYRQEQPETFWIQRAPQL  
PVCEGD

>sp|Q9UBP0|SPAST\_HUMAN Spastin OS=Homo sapiens GN=SPAST PE=1 SV=1

MNSPGGRGKKKGSGGASNPVPPRPPPPCLAPAPPAAGPAPPPESPHKRNLYYSYPLFVG  
FALLRLVAFHLGLLFVWLCQRFSRALMAAKRSSGAAPAPASASAPVPGGEAERVVVFH  
KQAFEYISIALRIDEDEKAGQKEQAVEWYKKGIEELEKGIIVITGQGEQCERARLQAK  
MMTNLVMAKDRLQLEKMQPVLPFSSQTDVYNDSTNLACRNGHLQSESGAVPKRKDPLT  
HTSNSLPRSKTVMKTGSAGLSGHHRAPSYSGLSMVSGVKQSGGPAPTTHKGTPTNRTNK  
PSTPTTATRKKKDLKNFRNVDSNLANLIMNEIVDNGTAVKFDDIAGQDLAKQALQEIVIL  
PSLRPELFTGLRAPARGLLLFPGPPNGKTMALAKAVAAESNATFFNISAAASLTSKYVGE  
KLVRALFAVARELQPSIIFIDEVDSLLCERREGEHDASRRLKTEFLIEFDGVQSAGDDRV  
LVMGATNRPQELDEAVLRRFIKRVYVSLPNEETRLLLLKNLLCKQGSPLTQKELAQALARM  
TDGYSGSDLTALAKDAALGPIRELKPEQVKNMSASEMRNIRLSDFTESLKKIKRSVSPQT  
LEAYIRWNKDFGDTTV

>sp|Q9UM82|SPAT2\_HUMAN Spermatogenesis-associated protein 2 OS=Homo sapiens GN=SPATA2  
PE=1 SV=2



MGKPSSMDTKFKDDLFRKYVQFHESKVDTTTSRQRPGSDECLRVAASTLLSLHKVDPFYR  
FRLIQFYEVVESSLRSLSSSSLRALHGAFSMLETVGINFLYPWKKEFRSIKTYTGPFVY  
YVKSTLLEEDIRAILSCMGYTPELGTAYKLRELVELQVKMVSFELFLAKVECEQMLEIH  
SQVKDKGYSELDIVSERKSSAEDVRGCDALRRRAEGREHLTASMSRVALQKSASERAAK  
DYYKPRVTKPSRSVDAYDSYWESRKPLKASLSLRKEPVATDVGDDLKDEIIRPSPSLLT  
MASSPHGSPDVLPPASPSNGPALLRGTYFSTQDDVDLYTDSEPRATYRRQDALRPDVWLL  
RNDASLYHKRSPPAKESALSKCQSCGLSCSSSLCQRCDSLLTCPPASKPSAFPSKASTH  
DSL AHGASLREKYPGQTQGLDRLPHLHSSKSPSTTPTSRCGFCNRPGATNTCTQCSKVSC  
DACLSAYHYDPCYKKSELHKFMPNNQLNYKSTQLSHLVYR

>sp|P36952|SPB5\_HUMAN Serpin B5 OS=Homo sapiens GN=SERPINB5 PE=1 SV=2

MDALQLANSAFAVDLFFKQLCEKEPLGNVLFSPICLSTSLSLAQVGAKGDTANEIGQVLHF  
ENVKDVPFQFQTVTSDVNKLSSFYSLKLIKRLYVDKSLNLSTEFISSTKRPYAKELETVD  
FKDKLEETKGQINNSIKDLTDGHFENILADNSVNDQTKILVVNAAYFVGKWMKKFSESET  
KECPFRVNKTDTKPVQMMNMEATFCMGNIDINCKIIELPFQNKHLSMFILLPKDVEDES  
TGLEKIEKQLNSELSQWTNPSTMANAKVKLSIPKFKVEKMIDPKACLENLGLKHIFSED  
TSDFSGMSETKGVALSNVIHKVCLEITEDGGDSIEVPGARILQHKDELNADHPFIYIIRH  
NKTRNIIFFGKFCSP

>sp|P35237|SPB6\_HUMAN Serpin B6 OS=Homo sapiens GN=SERPINB6 PE=1 SV=3

MDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMCALEMVMGAKGNTAAQMAQILSFN  
KSGGGGDHGGFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYAEMEE  
LDFISAVEKSRKHINTWVAEKTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKE  
NTEERLFKVSKEEKPVQMMFKQSTFKKTYIGEIFTQILVLPYVGKELNMIIMLPDETTD  
LRTVEKELTYEFVEWTRLDMDEEEVEVSLPRFKLEESYDMESVLRNLGMTDAFELGKA  
DFSGMSQTDLSLSKVHKSFVEVNEEGTEAAAAATAAIMMRCARFVPRFCADHPFLFFIQ  
HSKTNGILFCGRFSSP

>sp|Q8NBT2|SPC24\_HUMAN Kinetochore protein Spc24 OS=Homo sapiens GN=SPC24 PE=1 SV=2

MAAFRDIEEVSQGLSLLGANRAEAQQRRLLGRHEQVVERLLETQDGAEKQLREILTMEK  
EVAQSLLNAKEQVHQGGVELQQLEAGLQEAGEEDTRLKASLLYLTRELEELKEIADLER  
QEKEVDEDTTVTIPSAVYAQLYHQVSKIEWDYECEPGMVKGIIHHGPSVAQPIHLDSTQL  
SRKFISDYLWSLVDTEW

>sp|Q9Y6A9|SPCS1\_HUMAN Signal peptidase complex subunit 1 OS=Homo sapiens GN=SPCS1 PE=1 SV=4

MLEHLSSLPTQMDYKGQKLAEQMFQGIILFSAIVGFIYGYVAEQFGWTVYIVMAGFAFSC  
LLTLPPWPIYRRHPLKWLVPVQESSTDDKKPGERKIKRHAKNN

>sp|A6NIY4|SPDE5\_HUMAN Putative speedy protein E5 OS=Homo sapiens GN=SPDYE5 PE=5 SV=2

MQKHYTEAWFLYSAPGVDPSPPCRSLGWKRKREWSDESAEEPEKELAPEPEETWVVEMLC  
GLKMKLKQQRVSPILPEHHKGFNSQLAPGVDPSPPHRSFCWKRKMEWWDESEESLEEEPR  
KVLAPEPEEIWAEMLCGLKMKLRRRVSLVPEHHEAFNRLLDPVIKRFLAWDKDLRV  
SDKYLLAMVIAVFSRAGFSPWQYQRIHFFLALYLANDMEEDDEDSKQNIHFHLYGKNRSR  
IPLLRKRWFQLGRSMNPRARKNRSRIPLLRKRRFQLGRSMNLRARKNRSQIVLFQKRRFQ  
FFCSMSGRAWVSPEELEEIQAYDPEHWVWARDRARLS

>sp|A6NJR5|SPDL3\_HUMAN Putative speedy protein-like protein 3 OS=Homo sapiens PE=5 SV=3

MQKHYTEAWFLYSAPGVDPSPPCRSLGWKRKREWSDESEEEPEKELAPEPEETWVVEMLC  
GLKMKLKQQRVSPILPEHHKDFNSQLAPGVDPSPPHRSFCWKRKREWWDESEESLEEEPR

KVLAPEPEEIWVAEMLCGLKMKLKRRRVSLVLEPHHEAFNRLLDPVIKRFLAWDKDLRV  
SDKYLLAMVIAYFSRAGLPSWQYQRIHFFLALYLANDMEEDDEDPKQNIIFYFLYGKTRSR  
IPLIALFQKLRFQFFCSMSGRAWVSREELEEIQAYDPEHWVWARDRARLS

>sp|Q9Y3B4|SF3B6\_HUMAN Splicing factor 3B subunit 6 OS=Homo sapiens GN=SF3B6 PE=1 SV=1  
MAMQAAKRANIRLPPEVNRILYIRNLPYKITAEEMYDIFGKYGPIRQIRVGNTPETRGTA  
YVVYEDIFDAKNACDHLSGFNVCNRYLVVLYYNANRAFQKMDTKKKEEQKLKLLKEYGIN  
TDPPK

>sp|Q8N474|SFRP1\_HUMAN Secreted frizzled-related protein 1 OS=Homo sapiens GN=SFRP1 PE=1  
SV=1

MGIGRSEGGRRGAALGVLLALGAALLAVGSASEYDYVSFQSDIGPYQSGRFYTKPPQCVD  
IPADLRLCHNVGYKMKVLPNLLHETMAEVKQQASSWVPLLKNCHAGTQVFLCSLFAPV  
CLDRPIYPCRWLCEAVRDSCEPVMQFFGFYWEMLKCDKFPEGDVCIAMTPPNATEASKP  
QGTTCPPCDNELKSEAIIEHLCASEFALRMKIKEVKKENGDKKIVPKKKKPLKLGPIKK  
KDLKKLVLYLKNAGDCPCHQLDNLSSHFLIMGRKVKSQYLLTAIHKWDKKNKEFKNFMKK  
MKNHECPTFQSVFK

>sp|Q6UW10|SFTA2\_HUMAN Surfactant-associated protein 2 OS=Homo sapiens GN=SFTA2 PE=1 SV=1  
MGSGPLPLVLLTLLGSSHGTPGRTLQKLKESFLTNSSESSFFLELLEKLCLLLHLPST  
TSVTLHHARSQHHVVCNT

>sp|Q6PDA7|SG11A\_HUMAN Sperm-associated antigen 11A OS=Homo sapiens GN=SPAG11A PE=2 SV=3  
MRQRLPSVTSLLLVALLPFGSSQARHVNHSATEALGELRERAPGQGTNGFQLLRHAVKR  
DLLPPRTPPYQVHISHQEARGPSFKICVGFLGPRWARGCSTGNEKYHLPYAARDLQTFFL  
PFW

>sp|Q9BQI5|SGIP1\_HUMAN SH3-containing GRB2-like protein 3-interacting protein 1 OS=Homo  
sapiens GN=SGIP1 PE=1 SV=2

MMEGLKKRTRKAFGIRKKEKDDTDGSPDRDGIQSPHEPPYNSKAECAREGGKKVSKKS  
NGAPNGFYAEIDWERYNSPELDEEGYSIRPEEPGSTKGKHFYSSSESEEEEEESHKKFNIK  
IKPLQSKDILKNAATVDELKASIGNIALSPSPVRKSPRRSPGAIKRNLSSSEVARPRRST  
PTELISKKPPDDTALAPLFGPPLESADFDEQKTEVLDDQPEIWGSGQPINSMESPKLT  
RPFPTGTPTPLPKNPATPPRTGSPLTIGPGNDQSATEVKIEKLPSINDLDSIFGPVLS  
PKSAVNAEEKWVHFSDTSPHVTPELTPREKVVSPATPDNPADSPAPGPLGPPGPTGP  
PGPPGPPRNVLSPLNLEEVQKKVAEQTFIKDDYLETISPKDFGLGQRATPPPPPPPTYR  
TVVSSPGPGSGPGTTSAGSSPARPATPLVPCRSTTPPPPPPPRPPSRPKLPPGKPGVGD  
VSRPFSPIHSSSPPPIAPLARAESTSSISSTNSLSAATTPTVENEQPSLVWFDRGKFYL  
TFEGSSRGPSPLTMGAQDTLPVAAFTETVNAYFKGADPSKCIVKITGEMVLSFPAGITR  
HFANNPSAALTFRVINFSRLEHVLNPNQLCCDNTQNDANTKEFWVNPNLMTHLKKVS  
EQKPQATYYNVDMKYQVSAQGIQSTPLNLAVNWRCEPSTDLRIDYKYNTDAMTTAVAL  
NNVQFLVPIDGGVTKLQAVLPVAVWNAEQQRILWKIPDISQKSENGGVGSLLARFQLSEG  
PSKPSPLVVQFTSEGSTLSGCDIELVGAGYRFSLIKRRFAAGKYLADN

>sp|Q5FBB7|SGO1\_HUMAN Shugoshin 1 OS=Homo sapiens GN=SGO1 PE=1 SV=1

MAKERCLKKSFDQSLIEDIKRMKEKRKNLAIEIGKRRSFIAAPCQIITNTSTLLKNYQDN  
NKMLVLALENEKSKVKEAQDIILQRKECYLTCQLYALKGKLTSSQQTVEPAQNQEICSS  
GMDPNSDDSSRNLFVKDLPQIPLEETELPGQGESFQIEDQIPTIPQDTLGVDFDSGEAKS  
TDNVLPRTVSVRSSLKHCNSICQFDSLDDFETSHLAGKSFEEFVGVFLDPLVNMHIPEN  
VQHNACQWSKDQVNLSPKLIQPGTFTKTKEDILESKSEQTKSKQRDTQERKREKRKANR

RKSKRMSKYKENKSENKKTVPQKKMHKSVSSNDAYNFNLEEGVHLTPFRQKVSNDNREE  
NNESEVSLCESSGSGDDSDDLYLPTCKYIQNPTSNSDRPVTRPLAKRALKYTDEKETEGS  
KPTKTPTTTPPETQQSPHLSLKDITNVSYPVVKIRRLSLSPKKNKASPAVALPKRRCTA  
SVNYKEPTLASKLRGDPFTDLCFLNSPIFKQKDLRRSKKRALEVSPAKEAIFILYYVR  
EFVSRFPDCRKCKLETHICLR

>sp|O43765|SGTA\_HUMAN Small glutamine-rich tetratricopeptide repeat-containing protein  
alpha OS=Homo sapiens GN=SGTA PE=1 SV=1

MDNKKRLAYAI IQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPE  
IFEAAATGKEMPQDLRSPARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGAIEL  
NPANAVYFCNRAAAYSKLGNAGAVQDCERAICIDPAYSKAYGRMGLALSSLNKHVEAVA  
YYKKALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLLNPGFMSMASNLMNN  
PQIQQLMSGMISGGNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQNPELIEQLRSQIR  
SRTPSASNDQQE

>sp|Q9BRG2|SH23A\_HUMAN SH2 domain-containing protein 3A OS=Homo sapiens GN=SH2D3A PE=1  
SV=1

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQNGDFLVRASGSRGGNPVISCWRWGSALHF  
EVFRVALRPRPGRPTALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPL  
RRSFSEDTLMDGPRIEPLRARKWSNSQPADLAHMGRSREDPAGMEASTMPI SALPRTSS  
DPVLLKAPAPLGTVADSLRASDGLQAKAPTKPPRTSPFELPDASERPPTYCELVPRVPS  
VQGTSPSQSCPEEAPWWEAEDEEEENRCFTRPQAEISFCPHDAPSCLLGPQNRPLEPQ  
VLHTLRGLFLEHHPGSTALHLLLVDCQATGLLGVTDRQNGMGSGLLELLTLPHGHHLR  
LELLERHQTLALAGALAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGAL  
LMPQVSRLEHTWRQLRRSHTEAALAFEQELKPLMRALDEGAGPCDPGEVALPHVAPMVRL  
LEGEVAGPLDESCERLLRTLHGARMVRDAPKFRKVAQRLRGFRPNPELREALTTGFV  
RRLWGSRGAGAPRAERFEKFQRVLGVLRSQRLEPDR

>sp|Q9NRF2|SH2B1\_HUMAN SH2B adapter protein 1 OS=Homo sapiens GN=SH2B1 PE=1 SV=3

MNGAPSPEDGASPSSPPLPPPPPSWREFCESHARAAALDFARRFRLYLASHPQYAGPGA  
EAFSRRFAELFLQHFEAEVARASGSLSPPI LAPSPGAEISPHDLSLESCRVGGPLAVL  
GPSRSSEDLAGPLPSSVSSSTSSKPKLKKRFSLSVGRSVRGSVRGILQWRGTVDPSPS  
SAGPLETSSGPPVLGGSNSNSSSGGAGTVGRGLVSDGTSPGERWTHRFERLRLSRGGGAL  
KDGAGMVQREELLSFMGAEEAAPDPAGVGRGGGVAGPPSGGGGQPQWQKCRLLLRSEGE  
GGGSRLEFFVPPKASRPRLSIPCSSITDVRTTTALEMPDRENTFVVKVEGPSEYIMETVD  
AQHVKAWSVDIQECLSPGPCPATSPRPMTLPLAPGTSFLTRENTDSLELSCLNHSESLPS  
QDLLLGPSESNDRLSQGAYGGLSDRPSASISPSSASIAASHFDSMELLPELPPRIPIEE  
GPPTGTVHPLSAPYPPLDTPETATGSFLFQGEPEGGEDQPLSGYPWFHGMLSRLKAAQL  
VLTGGTGSBGVFLVRQSETRRGEYVLTFFNQKAKHLRLSLNEEGQCRVQHLWFQSFDM  
LEHFRVHPIPLESGGSSDVVLVSYPSSQRQQEPTTSHDPPQPPEPPSWTDPQPGAEAA  
SRAPEVAAAAAAAKERQEKEKAGGGGVPEELVPVVELVPVVELEEAIAPGSEAQGAGSG  
GDAGVPPMVQLQQSPLGGDGEEGHPRAINNQYSFV

>sp|Q6ZV89|SH2D5\_HUMAN SH2 domain-containing protein 5 OS=Homo sapiens GN=SH2D5 PE=1 SV=2

MQKAGAGGRRASDCGLAPHRPRCITKFAQYVGSFPVDDLDTQESVWL VQQQLWALKDCPR  
RRAVILKFSLQGLKIYSGEVLLMAHALRRILYSTWCPADCQFAFMARNPRSPASKLFC  
HLFVGSQPGEVQILHLLCRSFQLAYLLQHPEERAQPEPCGPTGEVPLKPLSSSGGLVR  
EPFGRDQLSQNVHALVSFRRLPAEGLVGSGKELPESEGRARHARLGNPYCSPTLVRKKAI

RSKVIIRSGAYRGCTYETQLQLSAREAFPAWEAWPRGPGGHSCSCLVESEGLTENIWAFAG  
ISRPCALALLRRDVLGAFLWPGLGASGQWCLSVRTQCGVVP HQVFRNHLGRYCLEHLPA  
EFPSLEALVENHAVTERSLFCPLDMGRLNPTYEEQDCGPPGRPPRTLRLPLSHAKSEAEELQ  
GLG

>sp|P55822|SH3BG\_HUMAN SH3 domain-binding glutamic acid-rich protein OS=Homo sapiens  
GN=SH3BGR PE=2 SV=3

MPLLLLGETEPLKLERDCRSPVDPWAAASPDALACLCHCQDLSSGAFPDGRGVLGGVLP  
TVEMVIKVFVATSSGSIIRKKQQEVVGFLEANKIDFKELDIAGDEDNRRWMRENVPGEK  
KPQNGIPLPPQIFNEEQYCGDFDSFFSAKEENIYSFLGLAPPPDSKGSEKAEEGGETEA  
QKEGSEDVGNLPEAQEKNEEEGETATEETEEIAMEGAEGEAEETAEEGEEPGEDEDS

>sp|075368|SH3L1\_HUMAN SH3 domain-binding glutamic acid-rich-like protein OS=Homo sapiens  
GN=SH3BGR PE=1 SV=1

MVIRVYIASSSGSTAIIKKKQDVLGFLEANKIGFEEKDIAANEENRKMRENVPENSRPA  
TGYPLPPQIFNESQYRGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

>sp|Q92529|SHC3\_HUMAN SHC-transforming protein 3 OS=Homo sapiens GN=SHC3 PE=1 SV=1

MLPRTKYNRFRNDSVTSVDDLHSLSVSGGGGKVSAARATPAAAPYLVSGEALRKAPDDG  
PGSLGHLHLKVSHLKSSSGLRGLSSAARERAGARLSGSCSAPSLAAPDGSAPSAPAPA  
MSAARKGRPGDEPLPRPPRGAPHASDQVLGPGVTYVVKYLGCI EVLRSMRSLDFSTRTQI  
TREAISRVC EAVPGAKGAFKKRPPSKMLSSILGKSNLQFAGMSISLTISTASLNLRTPD  
SKQIIANHMRISIFASGGDPD TTDYVAYVAKDPVNRACHILECCDGLAQDVIGSIGQA  
FELRFKQYLQCPTKIPALHDMQSLDEPWTEEEGDGSDHPYNSIPSKMPPPGFLDTRL  
KPRPHAPDTAQFAGKEQTYQGRHLGDTFGEDWQQTPLRQGSSDIYSTPEGKLVHAPTGE  
APTYVNTQQIPQAWPAAVSSAESSPRKDLFDMKPFEDALKNQPLGPVLSKAASVECI SP  
VSPRAPDAKMLEELQAETWYQGEMSRKEAEGLEKDGDFLVRKSTTNPGSFVLTGMHNGQ  
AKHLLLVDP EGTIRTKDRVFD SISHLINHHLESSLP IVSAGSELCLQQPVERKQ

>sp|O15357|SHIP2\_HUMAN Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2 OS=Homo  
sapiens GN=INPPL1 PE=1 SV=2

MASACGAPGPGGALGSQAPSWYHRDL SRAAAEELLARAGRDGSFLVRDSESVAGAFALCV  
LYQKHVHTYRILPDGEDFLAVQTSQGV PVRRFQTLGELIGLYAQPNQGLVCALLPVEGE  
REPDPDDR DASDEKPPLP PRSGSTSISAPTGPSSPLPAPETPTAPAAESAPNGLST  
VSHDYLKGSYGLDLEAVRGASHLPHLTRLATSCRR LHSEVDKVL SGLEILSKVFDQQS  
SPMVT RLLQQNL PQTGEQELESVLKLSVLKDFLSG IQKKALKALQDMSSTAPPAPQPS  
TRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTFT  
HDIRQLIKSQRVQNKLG VVFEKEKDRTQRKDFIFVSARKREAF CQLQLMKNKH SKQDE  
PDMISVF IGTWNMGSVPPK NVTSWFTSKGLGKTLDEVTVTIPHDIYVFGTQENSVDRE  
WDLRLRGGLKELTDLDYRPIAMQSLWN IKVAVLVKPEHENRISHVSTSSVKTGIANTLGN  
KGAVGVSFMFNGTSFGFVNCHLTS GNEKTARRNQNYLDILRLSLGDRQLNAFDISLRFT  
HLFWFGDLNYRLMDIQEILNYSRKEFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPT  
YRYERGSRD TYAWHKQKPTGVRTNVPSWCDRILWKSYPETHI ICNSYGCTDDIVTSDHSP  
VFGTFEVGVTSQFISKKGLSKTSDQAYIEFESIEAIVKTASRTKFFIEFYSTCLEEYKKS  
FENDAQS SDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLVKSM DGYESYGECVVA  
LKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRELYEWISIDKDEAGAKS  
KAPSVSRGSQEPRSGSRKPAFTEASCPLSRLFEEPEKPPPTGRPPAPPRAAPREEPLTPR  
LKPEGAP EPEGVAAPPPKNSFNNPAYV VLEGVPHQLLPPEPPSPARAPVPSATKNKVAIT

VPAPQLGHHHRPRVGE GSSSDEESGGTLPPPDFPPPPLPDSAIFLPPSLDPLPGPVVRGR  
GGAEARGPPPPKAHPRPPLPPGPSPASTFLGEVASGDDRSCSVLQMAKTLSEVDYAPAGP  
ARSALLPGPLELQPRLPSDYGRPLSFPPPRIRESIQEDLAEAPCLQGGRASGLGEAG  
MSAWLRAITGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDTLQLSK

>sp|A6NL88|SHSA7\_HUMAN Protein shisa-7 OS=Homo sapiens GN=SHISA7 PE=2 SV=3

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TRTGPAAGGAGAAARAPPAELCHGYDVMGQYDATFNCSTGSYRFCCGTCHYRFCCEHRH  
MRLAQASCSNYDTPRWATTPPPLAGGAGGAGGAGGGPGPGQAGWLEGGRTGGAGGRGGEG  
PGGSTAYVVCVISFALAVGVGAKVAFSKASRAPRAHRDINVPRALVDILRHQAGPGTRP  
DRARSSSLTPGIGGPDSMPRPTPKNLYNTVKTPNLDWRALPPPSPSLHYSTLSCSRSFHN  
LSHLPPSYEAAVKSELNRYSSLKRLAEKDLDEAYLKRRPLELPRGTLPLHALRRPGTGGG  
YRMEAWGGPEELGLAPAPNRRVMSQEHLLDGGRSRYEFTLPRARLVSQEHLSSPEA  
LRQSREHLLSPRSPALPPDPTARASLAASHNLLGPGGPPTPLRGLPPSSLHAHHHH  
ALHGSPQPAWMSDAGGGGTARRPPFQRQGTLEQLQFIPGHLPQHLRTASKNEVT

>sp|Q9P1W8|SIRPG\_HUMAN Signal-regulatory protein gamma OS=Homo sapiens GN=SIRPG PE=1 SV=3

MPVPASWPHPPGPFLLLTLGLTEVAGEEELQMIQPEKLLLVTVGKTATLHCTVTSLLP  
VGPVLWFRGVGPRELIYNQKEGHFPRVTVSDLTRNNMDFSIRISSITPADVGTYICV  
KFRKGSPENVFSGPGTEMALGAKPSAPVVLGPAARTTPEHTVSFTCESHGFSPRDITL  
KWFKNGNELSDFTQNVDPDPTGQSVAYSIRSTARVLDPDVRSQVICEVAHVTLQGDPLRG  
TANLSEAIRVPPTLEVTQQPMRVGNQVNVTCQVRKFYPQSLQLTWSENGVCQRETASTL  
TENKDGTYNWTSWFLVNISDQRDDVVLTCQVKHDGQLAVSKRLALEVTVHQDKQSSDATP  
GPASSLTALLLIAVLLGPIYVPWKQKT

>sp|Q9NPC8|SIX2\_HUMAN Homeobox protein SIX2 OS=Homo sapiens GN=SIX2 PE=1 SV=1

MSMLPTFGFTQEQAACVCEVLQQGGNIERLGRFLWSLPACEHLHKNESVLKAKAVVAFHR  
GNFRELYKILESHQFSPHNHAKLQQLWLKAHYIEAEKLGRPLGAVGKYRVRKFPPLPRS  
IWDGEETSYCFKEKSRSVLREWYAHNPYPSPREKRELAETGLTTTQVSNWFKNRRQRDR  
AAEAKERENNENSNSNSHNPLNGSGKSVLGSSSEDEKTPSGTPDHSSSPALLSPPPPGL  
PSLHSLGHPGPSAVPVPVPGGGGADPLQHHHGLQDSILNPMSANLVDLGS

>sp|O95343|SIX3\_HUMAN Homeobox protein SIX3 OS=Homo sapiens GN=SIX3 PE=1 SV=1

MVFRSPLDLYSSHFLLPNFADSHHRSILLASSGGGNGAGGGGAGGGSGGGNGAGGGGAG  
GAGGGGGGSRAPPEELSMFQLPTLNFSPEQVASVCETLEETGDIERLGRFLWSLPVAPG  
ACEAINKHESILRARAVVAFHTGNFRDLYHILENHKFTKESHGKLQAMWLEAHYQEAEL  
RGRPLGPVDKYRVRKKFPLPRTIWDGEQKTHCFKERTSLLREWYLQDPYPNPSKKRELA  
QATGLTPTQVGNWFKNRRQRDRAAAAKNRLQHQAIGPSGMRSLEAPGCPHGSASPSTA  
ASPTTSVSSLTERADTGTSILSVTSSDSECDV

>sp|Q96BD8|SKA1\_HUMAN Spindle and kinetochore-associated protein 1 OS=Homo sapiens  
GN=SKA1 PE=1 SV=1

MASSDLEQLCSHVNEKIGNIKTSLRNCGQEPTLKTVLNKIGDEIIVINELLNKLELEI  
QYQEQTNNSLKELCESLEEDYKDIEHLKENVPSHLPQVTVTQSCVKGSDLDPEEPIKVEE  
PEPVKKPPKEQRSIKEMPFITCDEFNGVPSYMKSRITYNQINDVIKEINKAVISKYKILH  
QPKKSMNSVTRNLYHRFIDEETKDTKGRYFIVEADIKFTTLKADKKFHVLLNLRHCRR  
LSEVRGGGLTRYVIT

>sp|Q8WVK7|SKA2\_HUMAN Spindle and kinetochore-associated protein 2 OS=Homo sapiens  
GN=SKA2 PE=1 SV=1

MEAEVDKLELMFQKAESDLDIYQYRLEYEIKTNHPDSASEKNPVTLLKELSVIKSRYQTL  
YARFKPVAVEQKESKSRICATVKKTMNMIQKLQKQTDLELSPLTKEEKTAAEQFKFHMPD  
L

>sp|Q07837|SLC31\_HUMAN Neutral and basic amino acid transport protein rBAT OS=Homo sapiens  
GN=SLC3A1 PE=1 SV=2

MAEDKSKRDSIEMSMKGCQTNNGFVHNEDILEQTPDGSSTDNLKHSTRGILGSQEPDFK  
GVQPYAGMPKEVLQFSGQARYRIPREILFWLTVASVLVLIATIAIIALSPKCLDWWQE  
GPMYQIYPRSFKDSNKDNGDLKGIQDKLDYITALNIKTWITSFYKSSLKDFRYGVEDF  
REVDPIFGTMEDFENLVAAIHDKGLKLIIDFIPNHTSDKHIWFQLSRTRTGKYTDYYIWH  
DCTHENGKTIPPNNWLSVYGNSSWHFDEVNRNQCYFHQFMKEQPDNFRNPDVQEEIKEIL  
RFWLTKGVDGFSLDVAVKFLLEAKHLRDEIQVNKTQIPDVTQYSELYHDFTTTQVGMHDI  
VRSFRQMTDQYSTEPGRYRFMGTEAYAESIDRTVMYYGLPFIQEADFPFNLYSMLDVS  
GNSVYEVITSWMENMPEGKWPWNMIGPDSSRLTSRLGNQYVNVNMMLLFTLPGTPITYY  
GEEIGMGNIVAANL NESYDINTLRSPMQWDNSSNAGFSEASNTWLPNTSDYHTVNVDV  
QKTQPRSAKLKYQLSLLHANELLNLRGWFCHLRNDSHYVVYTRELDGIDRIFIVLNF  
ESTLLNLHNMISGLPAKMRIRLSTNSADKGSKVDTSGLFDKGEGLIFEHNTKNLLHRQT  
AFRDRCFVSNRACYSSVLNILYTSC

>sp|Q96PX8|SLIK1\_HUMAN SLIT and NTRK-like protein 1 OS=Homo sapiens GN=SLITRK1 PE=1 SV=2

MLLWILLETSLCFAAGNVTGDVCKEKICSCNEIEGDLHVDCEKKGFTSLQRFTAPTSQF  
YHLFLHGNSLTRLFPNEFANFYNAVSLHMENGLHEIVPGAFLGLQVKRLHINNNKIKS  
FRKQTFLGLDDLEYLQADFNLLRDIDPGAFQDLNKLEVLILNDNLISTLPANVFQYVPIT  
HLDLRGNRLKTLPYEEVLEQIPGIAEILLEDNPWDCTCDLLSLKEWLENIPKNALIGRVV  
CEAPTRLQGKDLNETTEQDLCPLKNRVDSSLPAPPAQEETFAPGPLPTPFKTNGQEDHAT  
PGSAPNGGTKIPGNWQIKIRPTAAIATGSSRNKPLANSRPCGGCSCDHIPGSLKMNCN  
NRNVSSLADLKPKLSNVQELFLRDNKIHSIRKSHFVDYKNLILLDLGNNNIATVENNTFK  
NLDDLRLWLYMDSNYDLTSLREKFAGLQNLLEYLNVEYNAIQILPGTFNAMPKLRILILNN  
NLLRSLPVDVFAGVSLSKLSLHNNYFMYLPVAGVLDQLTSIIQIDLHGNPWECSTIVPF  
KQWAERLGSEVLMSDLKCETPVNFFRKDFMLLSNDEICPQLYARISPTLTSHSKNSTGLA  
ETGTHSNSYLDTSRVSISVLVPGLLL VFVTSFTVVGMLVFILNRNRKSKRRDANSSASE  
INSLQTVCDSSYWHNGPYNADGAHRVYDCGSHSLSD

>sp|Q8IW52|SLIK4\_HUMAN SLIT and NTRK-like protein 4 OS=Homo sapiens GN=SLITRK4 PE=2 SV=1

MFLWLFLILSALISSTNADSDISVEICNVCSCSVENVLYVNCVKSVYRPNQLKPPWSN  
FYHLNFQNNFLNILYPNTFLNFHAVSLHLGNNKLQNIIEGGAFLGLSALKQLHLNNNELK  
ILRADTFLGIENLEYLQADYNLIKYIERGAFNKLHKLKVLILNDNLISFLPDNIFRFASL  
THLDIRGNRIQKLPIGVLEHIGRVVELQLEDNPWNCSCDLLPLKAWLENMPYNIYIGEA  
ICETPSDLYGRLLKETNKQELCPMGTGSDFDVRILPPSQLENGYTTPNGHTTQTSLHRLV  
TKPPKTTNPSKISGIVAGKALSNRNLQIVSYQTRVPPLTPCAPCFCKTHPSDLGLSVN  
CQEKNIQSMSELIPKPLNAKKLHVNGNSIKDVDVSDFTDFEGLDLLHLGSNQITVIKGDV  
FHNLTNLRRLYLNGNQIERLYPEIFSGLHNLQYLYLEYNLIKEISAGTFDSMPNLQLLYL  
NNNLLKSLPVYIFSGAPLARLNLNRNKFMYLPVSGVLDQLQSLTQIDLEGNPWDCTCDLV  
ALKLWVEKLSDGIVVKELKCETPVQFANIELKSLKNEILCPKLLNKPSAPFTSPAPAITF  
TTPLGPIRSPGGPVPLSILILSVVLILTVFVAFCLLVFVLRNKKPTVKHEGLGNPD  
CGSMQLQLRKHDHKTNNKDGSLTEAFIPQTIEQMSKSHTCGLKESETGFMFSDPPGQKV  
MRNVADKEKDLLHVDTRKRLSTIDELDELFP SRDSNVFIQNFLESKKEYNSIGVSGFEIR

YPEKQPDKSKSKSLIGGNHSKIVVEQRKSEYFELKAKLQSSPDYLQVLEEQTALNKI

>sp|094991|SLIK5\_HUMAN SLIT and NTRK-like protein 5 OS=Homo sapiens GN=SLITRK5 PE=2 SV=2

MHTCCPPVTLEQDLHRKMHSWMLQTLAFAVTSVLVSCAETIDYYGEICDNACPCEEKDIGI  
LTVSCENRGIISLSEISPPRFPIYHLLLSGNLLNRLYPNEFVNYTGASILHLGSNVIQDI  
ETGAFHGLRGLRRLHLNNNKLELLRDDTFLGLENLEYLQVDYNYISVIEPNAFGKLHLLQ  
VLILNDNLLSSLPNNLFRFVPLTHLDLRGNRLKLLPYVGLLQHMDKVVELQLEENPWNC  
CELISLKDWLDISISYALVGDVVCETPFR LHGRDLDEVSQELCPRLISDYEMRPQTPL  
STTGYLHTTPASVNSVATSSSAVKPPLKPPKGTRQPNKPRVRPTSRQPSKDLGYSNYGP  
SIAYQTKSPVPLECTACSCNLQISDLGLNVNCQERKIESIAELQPKPYNPKMYLTENY  
IAVVRRTDFLEATGLDLLHLGNRISMIQDRAFGDLTNLRRLYLNGNRIERLSPELFYGL  
QSLQYLFLQYNLIREIQSGTFDPVNLQLLFLNNLLQAMP SGVFSGLTLLRLNLR SNHF  
TSLPVSGVLDQLKSLIQIDLHDNPWDCTCDIVGMKLWVEQLKVGVLVDEVICKAPKKFAE  
TDMRSIKSELLCPDYSDVVSTPTPSSIQVPARTSAVTPAVRLNSTGAPASLGAGGGASS  
VPLSVLILSLLLVFIMSVFVAAGLFVLVMKRRKKNQSDHTSTNNSDVSSFNMQYSVYGGG  
GGTGGHPHAHVHHRGALPKVKTPAGHVYEYIPHPLGHMCKNPIYRSREGNSVEDYKDLH  
ELKVTYSSNHLQQQQQPPPPPPQPPQQPPQLQLQPGEEERRESHHLRSPAYSVSTIEP  
REDLLSPVQDADRFRYRGILEPDKHCSTTPAGNSLPEYPKFP CSPAA YTFSPNYDLRRPHQ  
YLHPGAGDSRLREPVLVSPPSAVFVEPNRNEYLELKAKLNVEPDYLEVLEKQTTFSQF

>sp|Q7Z7L1|SLN11\_HUMAN Schlafen family member 11 OS=Homo sapiens GN=SLFN11 PE=1 SV=2

MEANQCPLVVEPSYPDLVINVGCVTLGEENRKKLQKIQRDQEKERVMAACALLNSGGGV  
IRMAKVEHPVEMGLDLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSSGPFPEDRS  
VKPRLCSLSSSLYRRSETSVRSMDSREAFCLKTKRKP KILEEGPFHKIHKGVYQELPNS  
DPADPNSDPADLIFQKDYLEYGEILPFPESQLVEFKQFSTKHFQEYVKRTIPEYVPAFAN  
TGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYKLCVHFCQPQRPITFTLKIV  
NVLKRGEYGYACMIRVNPFCCAVFSEAPNSWIVEDKYVCSLTTEKWVGMMTDTDPDLLQ  
LSEDFECQLSLSSGPPLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEH  
RGLEELINKMQMPFFRGILIFSRSWAVDLNLQEKPGVICDALLIAQNSTPILYTI LREQD  
AEGQDYCTRFTAFTLKQKLVMNGGYTGKVCVRAKVLCLSPESSAEALEAAVSPMDYPASYS  
LAGTQHMEALLQSLVIVLLGFRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGL  
PGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFI SDRNICRAETRKTFLRENFE  
HIQHIVIDEAQNFRTEDGDWYGKAKSITRAKGGPGILWIFLDYFQTSHLDCSGLPPLSD  
QYPREELTRIVRNADPIAKYLQKEMQVIRS NPSFN IPTGCLEVFPEAEWSQGVQGT LRIK  
KYLTVEQIMTCVADTCRRFFDRGYSPKDVAVLVSTAKEVEHYKYELLKAMRKKRVVQLSD  
ACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLYIFPWGG  
H

>sp|Q15796|SMAD2\_HUMAN Mothers against decapentaplegic homolog 2 OS=Homo sapiens GN=SMAD2  
PE=1 SV=1

MSSILPFTPPVVKRLLGWKKSAGSGGAGGGEQNGQEEKWCEKAVKSLVKLKKKTGRLDE  
LEKAITQNCNTKCVTIPSTCSEIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLQVSHR  
KGLPHVIYCRLWRWPDLSHSHHELKAIENCEYAFNLKKDEV CVNPNYHYQRVETPVLPPVLV  
PRHTEILTELPLDDYTHSIPENTNFPAGIEPQSNYIPETPPPGYISEDGETSDQQLNQS  
MDTGSPAELSPTTLPVNHSLDLQPVTYSEPAFWCSIAYYELNQRVGETFHASQPSLTVD  
GFTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSP  
NCNQRYGWHPATVCKIPPGCNLKIFNNQEF AALLAQSVNQGF EAVYQLTRMCTIRMSFVK

GWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTMGSPSVRCSSMS

>sp|Q9UPU9|SMAG1\_HUMAN Protein Smaug homolog 1 OS=Homo sapiens GN=SAMD4A PE=1 SV=3

MMFRDQVGVLAGWFKGWNECEQTVALLSLLKRVSTQARFLQLCLEHSLADCAELHVLER  
EANSPIGINQWQQESKDKVISLLLTHLPLLKPGNLDAKVEYMKLLPKILAHSTIEHNQHIE  
ESRQLLSYALIH PATSLED RSALAMWLNHLEDRTSTSF GGQNRGRSDSV DYGQTHYHQR  
QNSDDKLN GWQNSRDSG ICINASNWQDKSMGCENGHVPLYSSSSVPTTINTIGTSTSTIL  
SGQAHHSP LKRSVSLTPPMNVPNQPLGHGWM SHEDLRARGPQCLPSDHAPLSPQSSVASS  
GSGGSEHLEDQTTARNTFQEEGSGMKDVP AWLKSRLRLHKYAALFSQMTYEEMMALTECQL  
EAQNVTKGARHKIVISIQKLKERQNLKSLERDII EGGSRLRIPLQELHQMILTPIKAYSS  
PSTTPEARRRREPQAPRQPSLMGPESQSPDCKDGAAATGATATPSAGASGGLQPHQLSSCD  
GELAVAPLPEGDLPGQFTRVMGKVCTQLLVSRPDEENISSYLQLIDKCLIEAFTETQKK  
RLLSWKQVQKLFRSFPRKTLDDISGYRQQRNRGFGQSNLSPTAGSVGGGMGRRNPRQYQ  
IPSRNVPSARLGLGTSGFVSSNQ RNTTATPTIMKQGRQNLWFANPGGSNSMPSRTHSSV  
QRTRSLPVHTSPQNMLMFQPEFQLPVT EPDINNRL ESLCLSMTEHALGDGVDRTSTI

>sp|Q0VAQ4|SMAGP\_HUMAN Small cell adhesion glycoprotein OS=Homo sapiens GN=SMAGP PE=1 SV=1

MTSLLTTPSPREELMTTPILQPT EALSPEDGASTALIAVVITVVFLTLLSVVILIFFYLY  
KNKGSYVTYEPT EGEP SAIVQMESDLAKGSEKEEYFI

>sp|Q8IYB5|SMAP1\_HUMAN Stromal membrane-associated protein 1 OS=Homo sapiens GN=SMAP1 PE=1 SV=2

MATRSCREKAQKLNEQHQLILSKLL REEDNKYCADCEAKGPRWASWNIGVFICIRCAGIH  
RNLGVHISR VKSVNLDQWTAEQIQCMQDMGNTKARLLYEANLPENFRRPQTDQAVEFFIR  
DKYEKKKKYYDKNAIAITNISSSDAPLQPLVSSPSLQAAVDKNKLEKEKEKKKEKKREKE  
PEKPAKPLTAEKLQKKDQQL EPKKSTSPKAAEPTVDLLGLDGP AVAPVTNGNTTV PPLN  
DDLDIFGPMISNPLPATVMPPAQGTPSAPAAATLSTVTS GDLDL FTEQTTKSEEVAKKQL  
SKDSILSLYGTGTIQQQSTPGVFMGPTNIPFTSQAPAAFQGFPSMGVPVPAAPGLIGNVM  
GQSPSMMVMGMPMPNGFMGNAQTGV MPLPQNVVGPQGGMVGMGAPQSKFGLPQAQQPQWS  
LSQMNQQMAGMISSATPTAGFGGPSSTTAGWSGSSSGQTLSTQLWK

>sp|Q969G3|SMCE1\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1 OS=Homo sapiens GN=SMARCE1 PE=1 SV=2

MSKRPSYAPPPTPAPATQMPSTPGFVGYNPYSHLAYNNYRLGGNPGTNSRV TASSGITIP  
KPPKPPDKPLMPYMRYSRKVWDQVKASNPD LKLWEIGKII GGMWRDLTDEEKQEYLNEYE  
AEKIEYNESMKAYHNSPAYLAYINAKSRAEAALEESRQRQSRMEKGEPYMSIQPAEDPD  
DYDDGFSMKHTATARFQRNHLISEILSES VVPDVR SVVT TARMQVLKRQVQSLMVHQRK  
LEAELLQIEERHQEKKRKFLESTDSFN NELKRLCGLKVEVDMEKIAAEIAQAEEQARKRQ  
EEREKEAAEQAERSQSSIVPEEEQAANKGEEKKDDENIPMETEETHLEETTESQQNGEEG  
TSTPEDKESGQEGVDSMAEEGTSDSNTGSESNSATVEEPPTDPIPEDEKKE

>sp|Q9HOW8|SMG9\_HUMAN Protein SMG9 OS=Homo sapiens GN=SMG9 PE=1 SV=1

MSESGHSQPGLYIERRRRWKEPGSGGPQNLSGPGGRERDYIAPWERERRDASEETSTSV  
MQKTPIILSKPPAERSKQPPPTAPAAPAPAPLEKPIVLMKPREEGKGPVAVTGASTPE  
GTAPPPPAAPAPPKGEKEGQRPTQPVYQIQNRGMGTAAAPAAMPVVGQAKLLPPERMKHS  
IKLVDDQMNWCD SAIEYLLDQTDVLVVGVLGLQGTGKSMVMSLLSANTPEEDQRTYVFRA  
QSAEMKERGGNQTS GIDFFITQERIVFLDTQPILSPSILDHLINNDRKLPPEYNLPHTYV  
EMQSLQIAAFLFTVCHVVIVVQDWFTDLSLYRFLQTAEMVKPSTPSPSHSSSSSGSDEG



TEYYPHLVFLQNKARREDFCPRKLRQMHLMIDQLMAHSHLRYKGTLSMLQCNVFPGLPPD  
FLDSEVNLFLVPFMDSEAESENPPRAGPGSSPLFSLPGYRGHPSFQSLVSKLRSQVMSM  
ARQLSHTILTEKNWFHYAARIWDGVRKSSALAEYSRLLA

>sp|Q96E16|SMI19\_HUMAN Small integral membrane protein 19 OS=Homo sapiens GN=SMIM19 PE=3  
SV=2

MAGGYGVMGDDGSIDYTVHEAWNEATNVYLIVILVSFGLFMYAKRNKRRIMRIFSVPPTTE  
ETLSEPNFYDTISKIRLRQQLEMYISIRKYDYQQPQNQADSVQLSLE

>sp|Q8N5G0|SMI20\_HUMAN Small integral membrane protein 20 OS=Homo sapiens GN=SMIM20 PE=1  
SV=3

MSRNLRTALIFGGFISLIGAAFYPIYFRPLMRLEEYKKEQAINRAGIVQEDVQPPGLKVV  
SDPFGRK

>sp|Q9BVW6|SMIM2\_HUMAN Small integral membrane protein 2 OS=Homo sapiens GN=SMIM2 PE=1  
SV=1

MEAGERIDASQLPHRVLETRGHAISILFGFWTSFICDTYIVLAWISKIKGSPDVSASSDE  
PYARIQQSRRQCHAEEDQSQVPEAG

>sp|Q9BZL3|SMIM3\_HUMAN Small integral membrane protein 3 OS=Homo sapiens GN=SMIM3 PE=1  
SV=1

MDAVSQVPMEVVLPKHILDIWVIVLIILATIVIMTSLLCPATAVIIYRMRTHPILSGAV

>sp|Q96KF7|SMIM8\_HUMAN Small integral membrane protein 8 OS=Homo sapiens GN=SMIM8 PE=1  
SV=2

MSSAPEPTTFKKEPPKEKEFQSPGLRGVRTTLFRAVNPELFIKPNKPVMAFGLVTLSLC  
VAYIGYLHAIQENKKDLYEAIDSEGHSYMRRKTSKWD

>sp|Q9H4L7|SMRCD\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily A containing DEAD/H box 1 OS=Homo sapiens GN=SMARCD1 PE=1 SV=2

MNLFNLDRFRFEKRNKIEEAPATPQPSQPGSPSSPISLSAEENAEGEVSRANTPDSIT  
EKTEDSSVPETPDNERKASISYFNQRGIQYIDLSSDSEDVSPNCSNTVQKTFNKDTV  
IIVSEPSEDEESQGLPTMARRNDDISELEDLSELEDLKDAKLQTLKELFPQRSNDLLKL  
IESTSTMDGAIAAALLMFGDAGGPRKRKLSSSSEPYEEDEFNDQSIKKTRLDHGEESN  
ESAESSNWEKQESIVLKLQKEFPNFDKQELREVLKEHEWMYTEALESCLKVFAEDQDMQY  
VSQSEVPNGKEVSSRSQNYPKNATKTKLKQKFSMKAQNGFNKKRKKNVFNPKRVEDSEY  
DSGSDVGSSLEDYSSGEEVMEDGYKGKILHFLQDASIGELTLIPQCSQKKAQKITELRP  
FNSWEALFTKMSKTNGLEDLIWHCKTLIQRDVVIRLMNKCEDISNKLTKQVTMLTGNG  
GGWNIEQPSILNQSLKPYQKVGLNWLALVHKHGLNGILADEMGLGKTIQAIAFLAYLY  
QEGNNGPHLIVVPASTIDNWLREVNLCPTLKVLCYYGSQEERKQIRFNIHSRYEDYNVI  
VTTYNCAISSDDRSLFRRLKLNIAIFDEGHMLKNMGSIRYQHLMTINANNRLLLTGTPV  
QNNLLELMSLLNFVMPHMFSSSTSEIRRMFSSKTKSADEQSIYEKERIAHAKQIIKPFIL  
RRVKEEVLKQLPPKKDRIELCAMSEKQEQLYLGLFNRLKKSINNLEKNTEMCNVMMQLRK  
MANHPLLHRQYYTAEKLEMSQLMLKEPTHCEANPDLIFEDMEVMTDFELHVLCKQYRHI  
NNFQLDMDLILDSGKFRVLGCILSELKQKGRVVLFSQFTMMLDILEVLLKHHQHRYRLRL  
DGKTQISERIHLIDEFNTDMDIFVLLSTKAGGLGINLTSANVVILHDIDCNPYNDKQAE  
DRCHRVGQTKEVLVIKLISQGTIEESMLKINQQKLKLEQDMTTVDEGDEGSMPADIATLL  
KTSMGL

>sp|Q8IYR2|SMYD4\_HUMAN SET and MYND domain-containing protein 4 OS=Homo sapiens GN=SMYD4  
PE=2 SV=3

MDLPVDEWKSYLLQKWASLPTSVQVTISTAETLRDIFLHSSSLQPEDELFLKRLSKGYL  
VGKSDAPLFYREEGNKKFQEKDYTGAAVLYSKGVSHSRPNTEDMSLCHANRSAALFHLG  
QYETCLKDINRAQTHGYPERLQPKIMLRKAECLEVALGRLQEASQTISDLERNFTATPALA  
DVLPTLQRLNHLRKLKMKMEKDSLTFPAALAKTLEDAALRENEQLSNASSIGLCVD  
PLKGRCLVATKDILPGELLVQEDAFVSVLNPGEPPPHHGLDSKWDTRVTNGDLYCHRCL  
KHTLATVPCDGC SYAKYCSQECLQQAWELYHRTECPLGGLLLTLGVFCHIALRLTLLVGF  
EDVRKIITKLCDKISNKDICLPESNNQVKTLNYGLGESEKNGNIVETPIPGCDINGKYEN  
NYNVAFNLLPHTENHSPEHKFLCALCVSALCRQLEAASLQAIPTERIVNSSLKAAVTPE  
LCPDVTIWGVAMLRHMLQLCNAQAMTTIQHTGPKGSIVTDSRQVRLATGIFPVISLLNH  
SCSPNTSVSFISTVATIRASQRIRKGQEILHCYGPHKSRMGVAERQQKLRSQYFFDCACP  
ACQTEAHRMAAGPRWEAFCCNSCGAPMQGDDVLRGSRSCAESAVSRDHLVSRLQDLQQQ  
VRVAQKLLRDGELERAVQRLSGCQRDAESFLWAEHAVVGEIADGLARACAALGDWQKSAT  
HLQRSLYVVEVRHGPSSVEMGHELFKLAQIFFNGFAVPEALSTIQKAEVLSLHCGPWDD  
EIQELQKMKSCLLDLPTPVGPAL

>sp|Q96H20|SNF8\_HUMAN Vacuolar-sorting protein SNF8 OS=Homo sapiens GN=SNF8 PE=1 SV=1

MHRRGVGAGAI AKKKLAEAKYKERGTVLAEDQLAQMSKQLDMFKTNLEEFASKHKQEIRK  
NPEFRVQFQDMCATIGVDPLASGKGFWSEMLGVGDFYELGVQIIEVCLALKHRNGGLIT  
LEELHQQVLKGRGKFAQDVSQDDLIRAIKKLKALGTGFGIIPVGGTYLIQSVPAELNMDH  
TVVLQLAEKNGYVTVSEIKASLKWETERARQVLEHLLKEGLAWLDLQAPGEAHYWLPA LF  
TDLYSQEITAEAREALP

>sp|095473|SNG4\_HUMAN Synaptogyrin-4 OS=Homo sapiens GN=SYNG4 PE=2 SV=2

MHIPKSLQELANSEAVQFLRRPKTITRVFEGVFSLIVFSSLLTDGYQNKMESQQLHCILN  
SNSVACSFVAGAGFLAFLSCLAFLVLDLTQETRIAGTRFKTAFQLLDFILAVLWAVVWFMG  
FCFLANQWQHSPKFEFLGSSSAQAIAFTFFSILVWIFQAYLAFQDLRNDAPVPYKRFL  
DEGGMVLTTPLPSANSPVNMPPTGPNLSYASSALSPCLTAPKSPRLAMMPDN

>sp|Q5SQN1|SNP47\_HUMAN Synaptosomal-associated protein 47 OS=Homo sapiens GN=SNAP47 PE=1 SV=3

MRAARRGLHCAGAERPRRRGRLWDSSGVPQRQKRPGPWRTQTQE QMSRDVCIHTWPCTYY  
LEPKRRWVTGQLSLTSLSLRFMTDSTGEILVSFPLSSIVEIKKEASHFIFSSITILEKGH  
AKHWFSSLRPSRNVFSII EHFWRELLLSQPGAVADASVPTRGEELTGLMAGSQKRLED  
TARVLHHQGGQLDSVMRGLDKMESDLEVADRLLTELESPA WWPFSKLWKTPPETKPRED  
VSMTSCEPFGKEGILIKIPAVISHRTESHVKPGRLTVLVSGLEIHDSSLLMHRFEREDV  
DDIKVHSPYEISIRQRFIGKPD MAYRLISAKMPEVIPILEVQFSKKMELLE DALVLSAR  
TSSPAEKSCSVWHAASGLMGR TLHREPPAGDQEGTALHLQTSLPALSEADTQELTQILRR  
MKGLALEAESELERQDEALDGVA AAVDRATLTIDKHNRMRKRLT

>sp|Q92966|SNPC3\_HUMAN snRNA-activating protein complex subunit 3 OS=Homo sapiens GN=SNAPC3 PE=1 SV=1

MAEGSRGGPTCSGVGGRQDPVSGSGGCNFP EYELPELNTRAFHVGA FGELWRGRLRGAGD  
LSLREPPASALPGSQAADSDREDAAVARDLDCSLEAAAE LRAVCGLDKLKCLE DGEDPEV  
IPENTDLVTLGVRKRFL E HREETITIDRACRQET FVYEMESHAIGKKPENSADMIEEGEL  
ILSVNILYPVIFHKHKEHKPYQTMLVLGSQKLTQLRDSIRCVSDLQIGGEFSNTPDQAPE  
HISKDLYKSAFFYFEGTFYNDKRYPEC RDL SRTII EWSESHDRGYGKFQTARME DFTFND  
LCIKLGFPYLYCHQGCEHVIVITDIRLVHDDCLDR TLYPLL IKKHWWTRKCFVCKMY  
TARWVTNNSFAPEDPCFFCDVCFRMLHYDSEGNKLGEFLAYPYVDPGTFN

>sp|060493|SNX3\_HUMAN Sorting nexin-3 OS=Homo sapiens GN=SNX3 PE=1 SV=3

MAETVADTRRLITKPQNLNDAYGPPSNFLEIDVSNPQTVGVGRGFTTYEIRVKTNLPIF  
KLKESTVRRRYSDFEWLRLSELERESKVVPPLPGKAFLRQLPFRGDDGIFDDNFIEERKQ  
GLEQFINKVAGHPLAQNERCLHMFLQDEIIDKSYTPSKIRHA

>sp|Q9UNH6|SNX7\_HUMAN Sorting nexin-7 OS=Homo sapiens GN=SNX7 PE=1 SV=1

MDMNSFSPMMPTSPLSMINQIKFEDEPDLDLFIITVDEPESHVTTIETFIITYRIITKTSR  
GEFDSSEFEVRRRYQDFLWLKGKLEEAHPTLIIPPLPEKFIVKGMVERFNDDFIETRRKA  
LHKFLNRIADHPTLTFNEDFKIFLTAQAWELSSHKKQGPGLSRMGQTVRAVASSMRGVK  
NRPEEFMEMNNFIELFSQKINLIDKISQRIYKEEREYFDEMKEYGPIHILWSASEEDLVD  
TLKDVASCIDRCKATEKRMSGLSEALLPVVHEYVLYSEMLMGVMKRRDQIQAELEDSKVE  
VLTYKKADTDLLPEEIGKLEDKVECANNAKADWERWKQNMQNDIKLAFTDMAEENIHYY  
EQCLATWESFLTSQTNLHLEEASEDKP

>sp|Q9H2Y9|S05A1\_HUMAN Solute carrier organic anion transporter family member 5A1 OS=Homo sapiens GN=SLC05A1 PE=2 SV=2

MDEGTGLQPGAGEQLEAPATAEAVQERCEPETLRSKSLPVLSSASCRPSLSPTSGDANPA  
FGCVDSSGHQELKQGNPLAPSPSAPSTSAGLGDCNHRVDLSKTFVSSALAMLQERRCL  
YVVLTDSRCFLVCMCFLTFIQALMVSGYLSSVITTIERRYSLKSSGESLLVSCFDIGNLV  
VVVFVSYFGGRGRPLWLAVGGLLIAFGAALFALPHFISPPYQIQELNASAPNDGLCQGG  
NSTATLEPPACPKDSGGNNHWVYVALFICAQILIGMGSTPIYTLGPTYLDDNVKKENSSL  
YLAIMYVMGALGPAVGYLLGGLLIGFYVDPRNPVHLDQNDPRFIGNWWSGFLLCAIAMFL  
VIFPMFTFPKKLPPRHKKKKKKFSVDAVSDDVLKEKSNSEQADKKVSSMGFGKDVDRD  
LPRAAVRILSNMTFLFVSLSYTAESAIVTAFITFIPKFIESQFGIPASNASIYTGVIIVP  
SAGVGIVLGGYIIKKLKLGAESAKLAMICSGVSLLCFSTLFI VGCESINLGGINIPYTT  
GPSLTMPHRNLTGSCNVNCGCKIHEYEPVCGSDGITYFNCLAGCVNSGNLSTGIRNYTE  
CTCVQRQVITPPTVGQRSQLRVVIVKTYLNENGYAVSGKCKRTCNTLIPFLVFLFIVTF  
ITACAQPSAIIIVTLRSVEDEERPFALGMQFVLLRTLAYIPTPIYFGAVIDTTCMLWQQEC  
GVQGSWEYNVTSFRFVYFGLAAGLKFVGFIFIFLAWYSIKYKEDGLQRRRQREFPLSTV  
SERVGHDPDNARTRSCPAFSTQGEFHEETGLQKGIQCAAQTYPGPFPEAISSADPGLEES  
PAALEPPS

>sp|075908|SOAT2\_HUMAN Sterol O-acyltransferase 2 OS=Homo sapiens GN=SOAT2 PE=2 SV=1

MEPGGARLRLQRTEGLGGERERQPCGDGNTETHRAPDLVQWTRHMEAVKAQLLEQAQGGQL  
RELLDRAMREAIQSYPQDKPLPPPPGSLSRTQEPSLQKQKVFIIKSLDELMEVQHF  
RTIYHMFIAGLCVFIISTLAIDFIDEGRLLEFDLLIFSFGQLPLALVTWVPMFLSTLLA  
PYQALRLWARGTWTQATGLGCALLAAHAVLALPVHVAVEHQLPPASRCVLVFEQVRFL  
MKSYSFLREAVPGTLRARRGEGIQAPSFSSYLYFLCPTLIYRETYPRTPYVRWNYVAKN  
FAQALGCVLYACFILGRLCVPVFANMSREPFSTRALVLSILHATLPGIFMLLLIFFAFLH  
CWLNAFAEMLRFGRDMFYRDWWNSTSFSNYYRTWNVVVDWLYSYVYQDGLRLLGARARG  
VAMLGVFLVSAVAHEYIFCFVLGFFYPVMLILFLVIGGMLNFMMDHQRTPAWNVLMTM  
LFLGQGIQVSLYCQEWYARRHCPLPQATFWGLVTPRSWSCHT

>sp|014544|SOCS6\_HUMAN Suppressor of cytokine signaling 6 OS=Homo sapiens GN=SOCS6 PE=1 SV=2

MKKISLKLTKSFNLNKSKEETDFMVVQQPSLASDFGKDDSLFGSCYGKDMASCDINGED  
EKGKKNRSKSESLMGTCLKRRLSAKQKSKGKAGTPSGSSADEDTFSSSSAPIVFKDVRAQR  
PIRSTSLRSHHYPAPWPLRPTNSEETCIKMEVRVKALVHSSSPSPALNGVRKDFHDLQS

ETTCQEQANSLKSSASHNGDLHLHLDEHVPVVI GLMPQDYIQYTVPLDEGMYPLEGSRSY  
CLDSSSPMEVSAVPPQVGGRAFPEDESQVDQDLVVAPEIFVDQSVNGLLIGTTGVMLQSP  
RAGHDDVPPLSPLPPMQNNQIQRFNSGLTGTEAHVAESMRCHLNFDPN SAPGVARVYDS  
VQSSGPMVVTSLTEELKKLAKQGWYWGPI TRWEAEGKLANVPDGSFLVRDSSDDRYLLSL  
SFRSHGKTLHTRIEHSNGRFSFYEQPDVEGHTSIVDLIEHSIRDSENGAFCYSR SRLPGS  
ATYPVRLTNPVSRFMQVRS LQYLCRFVIRQYTRIDLIQKLPLPNKMKDYLQEKHY

>sp|P35711|SOX5\_HUMAN Transcription factor SOX-5 OS=Homo sapiens GN=SOX5 PE=1 SV=3

MLTDPDL PQEFERMSSSRPASPYGEADGEVAMVTSRQKV EEEESDGLPAFHLPLHVSFPN  
KPHSEEFQPVSLLTQETCGHRTPTSQHNTMEVDGNKVMSSFAPHNSSTSPQKAEEGGRQS  
GESLSSTALGTPERRKGLADVVDTLKQRKMEELIKNEPEETPSIEKLLSKDWKDKLLAM  
GSGNFGEIKGTPESLAEKERQLMGMINQLTSLREQLLAHDEQKKLAASQIEKQRQMEL  
AKQQEQEIARQQQLLQQQHKINLLQQQIQVQGQLPPLMIPVFPPDQRTLAAAQQGFL  
PPGFSYKAGCSDPYPVQLIPTMAAAAAATPGLGPLQLQLYAAQLAAMQVSPGGKLPGI  
PQGNLGAASPTS IHTDKSTNSPPPKSKDEVAQPLNLSAKPKTSDGKSPTSPTSPHMPAL  
RINSAGPLKASVPAALASPSARVSTIGYLNHDVTKAIQEARQMKEQLRREQQVLDGK  
VAVVNSLGLNNCRTEKEKTTLES LTQQLAVKQNEEGKFSHAMMDFNLSGDSDGSAGVSES  
RIYRESRGRGSNEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGSRWKAMTNL  
EKQPYEEQARLSKQHLEKYPDYKYKPRPKRTCLVDGKKLRIGEYKAIMRNRREQMRQYF  
NVGQQAQIPIATAGVYPGAIAMAGMPSPHLPSEHSSVSSSPEPGMPVIQSTYGVKGEEP  
HIKEEIQAEINGEIYDEYDEEEDDPDVDYGS DSENHIAGQAN

>sp|Q9H0E3|SP130\_HUMAN Histone deacetylase complex subunit SAP130 OS=Homo sapiens  
GN=SAP130 PE=1 SV=1

MGPPRHPQAGEIEAGGAGGGRR LQVEMSSQQFPRLGAPSTGLSQAPSQIANSGSAGLINP  
AATVNDESGRDSEVSAREHMSSSSSLQSREEKQEPVVVRPYPVQMLSTHHAVASATPVA  
VTAPPAHLTPAVPLSFSEGLMKPPPKPTMPSRPIAPAPPSTLSLPPKVPQVTVTMESSI  
PQASAI PVATISGQQGHPSNLHHIMTTNVQMSIIRSNAPGPPLHIGASHLPRGAAAAAVM  
SSSKVTTVLRPTSQLPNAATAQPAVQHI IHQPIQSRPPVTTSNAIPPAVVATVSATRAQS  
PVITTTAAHATDSALSRPTLSIQHPPSAAISIQRPAQSRDVTTRITLPSHPALGTPKQQL  
HTMAQKTIFSTGTPVAAATVAPILATNTIPSATTAGSVSHTQAPTSTIVTMTVPSHSSHA  
TAVTTSNIPVAKVVPQQITHTSPRIQPDYPAERSSLIPISGHRASPNPVAMETRSDNRPS  
VPVQFQYFLTPYPPSAYPLAAHTYTPITSSVSTIRQYPVSAQAPNSAITAQTGVGVASTV  
HLNPMQLMTVDASHARHIQGIQPAPISTQGIQPAPIGTPGIQAPLGTQGIHSATPINTQ  
GLQPAPMGTQQPQPEGKTSAVVLADGATIVANPISNPFSAAPAATTVVQTHSQSASTNAP  
AQGSSPRPSILRKKPATDGAKPKSEIHVSMATPVTVSMETVSNQNDQPTIAVPPTAQQP  
PPTIPTMIAAASPPSQPAVALSTIPGAVPITPPITTIAAAPPSVTVGGSLSVVGPPVP  
EIKVKEEVEPMDIMRPVSAVPPLATNTVSPSLALLANNLSMPTSDLPPGASPRKKPRKQQ  
HVISTEEGDMMETNSTDDEKSTAKSLLVKAERKKSPPKEYIDEEGVRYVPVRPRPPI TLL  
RHYRNPWKAAYHHFQRYSDVRVKEEKKAMLQEIANQKGVSCRAQGWKVHLCAAQLQLTN  
LEHDVYERLTNLQEG IIPKKKAATDDDLHRINELIQGNMQRCKLVMDQISEARDSMLKVL  
DHKDRVLKLLNKGTVKKVSKLKRKEKV

>sp|Q15506|SP17\_HUMAN Sperm surface protein Sp17 OS=Homo sapiens GN=SPA17 PE=1 SV=1

MSIPFSNTHYRIPQFGNLL EGLTREILREQPDNIPAFAAAYFESLLEKREKTNFDPAEW  
GSKVEDRFYNNHAFEEQEPPEKSDPKQESQISGKEEETSVTILDSSEEDKEKEEVAVK  
IQAAFRGHIAREEAKMKMTNSLQNEEKEENK

>sp|Q5T4F7|SFRP5\_HUMAN Secreted frizzled-related protein 5 OS=Homo sapiens GN=SFRP5 PE=2 SV=3

MRAAAAGGGVRTAALALLLGAHWAPARCEEYDYYGWQAEPLHGRSYSKPPQCLDIPADL  
PLCHTVGYKRMRLPNLLEHESLAEVKQQASSWLPLAKRCHSDTQVFLCSLFAPVCLDRP  
IYPCRSLCEAVRAGCAPLMEAYGFPWPEMLHCHKFPLDNDLCIAVQFGHLPATAPPVTKI  
CAQCEMEHSADGLMEQMCSSDFVVKMRIKEIKIENGDRKLIQAQKKKKLLKPGPLKRKDT  
KRLVLHMKNGAGCPCPQLDSLGSFLVMGRKVDGQLLLMAVYRWDKKNKEMKFAVKFMFS  
YPCSLYYPFFYGAAEPH

>sp|O95562|SFT2B\_HUMAN Vesicle transport protein SFT2B OS=Homo sapiens GN=SFT2D2 PE=1 SV=1

MDKKKVLSGQDTEDRSGLSEVVEASSLSWSTRIKGFACFAIGILCSLLGTVLLWVPRK  
GLHLFAVYFTFGNIASIGSTIFLMGPVKQLKRMFEPTRLIATIMVLLCFALTLCSAFWWH  
NKGLALIFCILQSLALTWYSLSFIPFARDAVKKCFVCLA

>sp|Q8IWL2|SFTA1\_HUMAN Pulmonary surfactant-associated protein A1 OS=Homo sapiens GN=SFTP1 PE=1 SV=2

MWLCPLALNLILMAASGAVCEVKDVCVSPGIPGTPGSHGLPGRDGRDGLKGDPPGPM  
GPPGEMPCPPGNDGLPGAPGIPGECGEKGEPPGERGPPGLPAHLDEELQATLHDFRHQILQ  
TRGALSQGSIMTVGEKVFSSNGQSITFDAIQEACARAGGRIAVPRNPEENEAIASFVKK  
YNTYAYVGLTEGSPGDFRYS DGPVNYTNWYRGEPAGRGKEQC VEMYTDGQWDRNCLY  
SRLTICEF

>sp|Q9BWM7|SFXN3\_HUMAN Sideroflexin-3 OS=Homo sapiens GN=SFXN3 PE=1 SV=2

MESKMGELPLDINIQRWDQSTFLGRARHFFTVDPRNLLLSGAQLEASRNIVQNYRAG  
VVTGITEDQLWRAKYVYDSAFHPDTGEKVVLIGRMSAQVPMNMTITGCMFTYRKTPTV  
VFWQWVNQSFNAIVNYSNRSGDTPITVRQLGTAYVSATTGAVATALGLSLTKHLPPLVG  
RFVPFAAVAAANCINIPLMRQRELQVGIPVADEAGQRLGYSVTAAKQGFQVVISRICMA  
IPAMAIPLIMDTLEKKDFLRRPWLGAQLVGLVGFCLVFATPLCCALFPQKSSIHISN  
LEPELRAQIHEQNPSVEVVYNNKGL

>sp|Q6P4A7|SFXN4\_HUMAN Sideroflexin-4 OS=Homo sapiens GN=SFXN4 PE=1 SV=1

MSLEQEEETQPGRLGRRDAVPAFIEPNVRFWITERQSFIRRFQWTELLDPTNVFISVE  
SIENSRLCTNEDVSSPASADQRIQEAWKRLATVHPDSSNLIPKLFRPAAFLPFMAPT  
VFLSMTPLKGKSVILPQVFLCAYMAAFNSINGNRSYTCKPLERSLLMAGAVASSTFLGV  
IPQFVQMKYGLTGPWIKRLLPVIFLVQAGMNVYMSRSLESIKGIAMDKENVLGHSRI  
AGTKAVRETLASRIVLFGTSALIPVFTYFFKRTQYFRKNPGSLWILKLSCTVLAMGLMV  
PFSFSIFPQIQIQYCSLEEKIQSPTEETEIFYHRGV

>sp|Q6XE38|SG1D4\_HUMAN Secretoglobin family 1D member 4 OS=Homo sapiens GN=SCGB1D4 PE=1 SV=1

MRLSVCLLMVSLALCCYQAHALVCPAVASEITVFLFLSAAVNLQVAKLNPPPEALAAKL  
EVKHCTDQISFKKRLSLKSSWWK

>sp|Q9BX95|SGPP1\_HUMAN Sphingosine-1-phosphate phosphatase 1 OS=Homo sapiens GN=SGPP1 PE=1 SV=2

MSLRQLAQLVGRLQDPQKVARFQRLCGVEAPRRSADRREDEKAEAPLAGDPRLRGRQP  
GAPGGPQPPGSDRNQCPAKPDGGGAPNGVRNGLAAELGPASRRAGALRRNSLTGEEGQL  
ARVSNWPLYCLFCFGTELGNELFYILFFPFWIWNLDPLVGRRLVVIWVLMYLGQCTKDI  
IRWPRPASPPVVKLEVFNSEYSMPSTHMSGTAIPISMVLLTYGRWQYPLIYGLILIPC

WCSLVCLSRIYMGHMSILDIIAGFLYTLILAVFYPFVDLIDNFNQTHKYAPFIIIGLHL  
ALGIFSFTLDTWSTSRGDTAEILGSGAGIACGSHVTYNMGLVLDPSLDTLPLAGPPITVT  
LFGKAILRILIGMVFLIIRDVMKKITIPACKIFNIPCDDIRKARQHMEVELPYRYITY  
GMVGFSITFFVPYIFFFIGIS

>sp|Q2NKQ1|SGSM1\_HUMAN Small G protein signaling modulator 1 OS=Homo sapiens GN=SGSM1  
PE=1 SV=2

MASAPAEAEATRQRLRLRTVKKEVKQIMEEAVTRKFVHEDSSHIISFCAAVEACVLHGLRRR  
AAGFLRSNKIAALFMKVGNFPPAEDLSRKVQDLEQLIESARNQIQGLQENVRKLPKLPN  
LSPLAIKHLWIRTALFEKVLKIVHYLVENSSKYYEKEALLMDPVDGPILASLLVGPCAL  
EYTKMKTADHFWTDPADLVQRHRIHSSHVRQDSPTKRPALCIQKRHSSGSMDDRPSLS  
ARDYVESLHQNSRATLLYGKNNVLVQPRDDMEAVPGYLSLHQTADVMTLKWTPNQLMNGS  
VGDLDEKSVYWDYAMTIRLEEIVYLHCHQQVDSGGTVVLVSQDGIQRPPFRFPKGGHLL  
QFLSCLENGLLPHGQLDPPLWSQRGKGKVPKLRKRSPQGSASTSSDKDDDEATDYVFR  
IIYPGMQSEFVAPDFLGSTSSVSVGPAMMVPAGRSMLVVARGSQWEPARWDTTLPTPSP  
KEQPPMPQDLMDVSVSNLPSLWQPSRKSSCSSCSQSGSADGSSTNGCNHERAPLKLLCD  
NMKYQILSRAFYGLAYCRHLSTVRTHLSALVNHMIVSPDLPCDAGQGLTARIWEQYLHD  
STSYEEQELLRLIYYGGIQPEIRKAVWPFLGHYQFGMTETERKEVDEQIHACYAQTMAE  
WLGCEAIVRQRERESHAAALAKCSSGASLDSHLHRMLHRDSTISNESSQSCSSGRQNIRL  
HSDSSSSTQVFESVDEVEQVEAEGRLEEKQPKIPNGNLVNGTCSPDSGHPSSHNFSSGLS  
EHSEPSLSTEDSVLDAQNTPTVLRPRDGSVDDRQSSEATTSQDEAPREELAVQDSLES  
LLANESMDEFMSITGSLDMALPEKDDVMEGWRSSSETEKHGQADSEDNLSEEPEMESLFP  
ALASLAVTTSANEVSPVSSSGVTYSPELLDLTYVNLHRIEKDVQRCDRNYWYFTPANLEK  
LRNIMCSYIWQHIEIGYVQGMCDLLAPLLVILDDEALAFSCFTELMKRMNQNFPHGGAMD  
THFANMRSLIQILDSELFELMHQNGDYTHFYFCYRWFLDFKRELVDVFLVWETIWAA  
KHVSSAHYVLFIALALVEVYRDIILENNMDFTDIIKFFNEMAERHNTKQVLKLARDLVYK  
VQTLIENK

>sp|O14796|SH21B\_HUMAN SH2 domain-containing protein 1B OS=Homo sapiens GN=SH2D1B PE=1  
SV=2

MDLPYYHGRLTKQDCETLLKEGVDGNFLLRDSSEIPGVLCCLCVSFKNIVYTYRIFREKH  
GYYRIQTAEGSPKQVFPSELKELISKFEKPNQGMVVHLLKPIKRTSPSLRWRLKLELETF  
VNSNSDYVDVLP

>sp|Q9H788|SH24A\_HUMAN SH2 domain-containing protein 4A OS=Homo sapiens GN=SH2D4A PE=1  
SV=1

MLKQILSEMYIDPDLLAELSEEKQILFFKMREEQIRRWKEREAMERKESLPVKPRPKK  
ENGKSVHWKLGADKEVWVWMGEHHLDPYDVLCEIIAERARLKAEQEAEEPRKTHSEE  
FTNSLKTQSQYHDLQAPDNQQTDIWKKVAEKEELEQGSRPAPTLEEEKIRSLSSSSRNI  
QQMLADSINRMKAYAFHQKKESMKKKQDEEINQIEEERTKQICKSWKEDSEWQASLRKSK  
AADEKRRSLAKQAREDYKRLSLGAQKGRGGERLQSPLRVPQKPERPPLPPKPQFLNSGAY  
PQKPLRNQGVVRTLSSSAQEDIIRWFKEEQPLPRAGYQKTSDTIAPWFHGILTLKKANEL  
LLSTGMPGSFLIRVSEIRIKGYALSYSLEDGCKHFLIDASADAYSFLGVDQLQHATLADLV  
EYHKEEPITSLGKELLLYPCGQQDQLPDYLELFE

>sp|Q7Z4S9|SH2D6\_HUMAN SH2 domain-containing protein 6 OS=Homo sapiens GN=SH2D6 PE=2 SV=1  
MYASSYPPPPQLSPRSHLCPPPHPTPPQLNNLLLLEGRKSSLPSVAPTGSASAAEDSDL  
LTQPWYSGNCDRYAVESALLHLQKDGAYTVRPSSGPHGSQPFTLAVLLRGRVFNIPIRRL

DGGRHYALGREGRNREELFSSVAAMVQHFMWHPLPLVDRHSGSRELTCLLFPTKP

>sp|Q5HYK7|SH319\_HUMAN SH3 domain-containing protein 19 OS=Homo sapiens GN=SH3D19 PE=1 SV=2

MNIMNTEQSQNSIVSRIKVFEGQTNIETSGLPKKPEITPRSLPPKPTVSSGKPSVAPKPA  
ANRASGEWDSGTENRLKVTKEGLTPYPPLQEAGSIPVTKPELPPKPNPGLIRSVNPEIP  
GRGPLAESDSDGKKVPTPAPRPLLLKKSVSSENPTYPSAPLKPVTVPRLAGASQAKAYK  
SLGEGPPANPPVPVLQSKPLVDIDLISFDDDLPTPSGNLAESVGSEMVLDPFQLPAKT  
EPIKERAQVQAPTRKPTVIRIPAKPGKCLHEDPQSPPLPAEKPIGNTFSTVSGKLSNVE  
RTRNLESNHPGGTGGFVRVPPRLPPRPVNGKTIPTQQPPTKVPPERPPPPKLSATRRSNK  
KLFPNRSSDMDLQKKQSNLATGLSKAKSQVFNQDPVLP RP KPGHPLYSKYMLSVPHG  
IANEDIVSQNPGEISCKRGDVLMLKQTENNYLECCQKGEDTGRVHLSQMKIITPLDEHLR  
SRPNDSHAQKPVDSGAPHAVVLHDFPAEQVDDLNLTSGEIVYLLEKIDTDWYRGNCRNQ  
IGIFPANYVKVIIDIPEGGNGKRECVSSHCVKGSRCVARFEYIGEQQDELSFSEGEI IIL  
KEYVNEEWARGEVRGRTGIFPLNFVEPVEDYPTSGANVLSTKVPLKTKKEDSGSNSQVNS  
LPAEWCEALHSFTAETSDDL SFKRGDRIQILERLDSDCRGLQDREGIFPAVVRPCPA  
EAKSMLAIVPKGRKAKALYDFRGENEDELSFKAGDIITELESVDDDWMGELMGKSGIFP  
KNYIQFLQIS

>sp|Q9POV3|SH3B4\_HUMAN SH3 domain-binding protein 4 OS=Homo sapiens GN=SH3BP4 PE=1 SV=1

MAAQIRAAANSNGLPRCKSEGLIDLSEGFSETSFNDIKVPSPSALLVDNPTPFGNAKEV  
IAIKDYCPTNFTTLKFSKGDHLYVLDTSGGEWYAHNTTEMGYIPSSYVQPLNYRNSTLS  
DSGMIDNLPDSPDEVAKELELLGGWTDKKVPGRMYSNNPFWNGVQTNPFLNGNVPVMP  
LDELNPKSTVDLLLFDA GTSSFTSSSATTNSTGNIFDEL PVTNGLHAEPPVRRDNPF  
SKRSYSLSELSVLQAKSDAPTSSTSSFTGLKSPAPEQFQSREDFRTAWLNHRKLARSCHDL  
DLLGQSPGWGQTQAVETNIVCKLDSSGGAVQLPDTSISIHVPEGHVAPGETQQISMKALL  
DPPELNSDRSCSISPVLVVKLSNLEVKTSIILEMKVSAEIKNDLFSKSTVGLQCLRSDS  
KEGPYVSPLNCSCGDTVQAQLHNLPCMYVAVVAHGPSILYPSTVWDFINKKVTVGLYG  
PKHIHPSFKTVVTIFGHDCAPKTLVSEVTRQAPNPAPVALQLWGKHQFVLSRPQDLKVC  
MFSNMTNIEVKASEQAKVVRGFQLKLGKVSRLIFPITSQNPNELSDFTLRVQVKDDQEA  
LTQFCVQTPQPPPKSAIKPSGQRRFLKKNEVGKIIILSPFATTTKYPTFQDRPVSSLKFGK  
LLKTVVRQKNHYLLEYKKGDGIALLESEVRVLRGQLWTKEWYIGYYQGRVGLVHTKNVL  
VVGRARPSLCSGPELSTSVLLEQILRPCKFLTYIYASVRTLLMENISSWRSFADALGYVN  
LPLTFFCRAELDSEPERVASVLEKLKEDCNNTENKERKSFQKELVMALLKMDQCGLVVRL  
IQDFVLLTTAVEVAQRWRELAEKLA KVSQQMDAYESPHRDRNGVVDSEAMWKPAYDFLL  
TWSHQIGDSYRDVIQELHLGLDKMKNPITKRWKHLTGTLILVNSLDVLRAAAFSPADQDD  
FVI

>sp|Q8TEJ3|SH3R3\_HUMAN SH3 domain-containing RING finger protein 3 OS=Homo sapiens GN=SH3RF3 PE=1 SV=2

MLLGASWLCASAAAAAAQSEGDEDRPGERRRRRAATAAGAGEDMDESSLDLLECSVC  
LERLDTTAKVLPCHTFRCRCLESIVCSRHELRCPECRILVCGVDEL PANILLVRLLDG  
IRQRPRAGTSPGGSPPARP IPGQSAAPTLAGGGGAAGSTPGSPVFLSAAAGSTAGSLRE  
LATSRTAPAAKNPCLLPYGKALYSYEGKEPGDLKFNKGDIIVLRRKVDEQWYHGELHGTQ  
GFLPAS YIQCIQPLPHAPPQGKALYDFEMKDKDQDKDCLTFTKDEILTVLRRVDENWAEG  
MLGDKIGIFPLLYVELNDSAKQLIEMDKPCPAAASSCNASLPDSGAVASVAPSPTLSSS  
GAVSAFQRRVDGKKNTKKRHSFTALSVTHRSSQAASHRHSMEISAPVLISSSDPRAAARI

GDLAHLSCAAPTQDVSSSAGSTPTAVPRAASVSGEQGTPPKVQLPLNVYLALYAYKPQKS  
DELELHKGEMYRVLEKCDGWFKGASLRTGVSGVFPNGYVTPVSRVPAGGAGPPRNNVVG  
GSPLAKGITTMMHPGSGSLSSLATATRPALPITTPQAHQHTASPTGSLRHSQAQPTA  
SQARSTISTAHSAAQAQDRPTATVSPLRTQNSPSRLPATSLRPHSVVSPQHSHQPPVQM  
CPRPAIPLTSAASAITPPNVSAANLNGEAGGGPIGVLSTSSPTNTGCKLDEKKSEKKEKK  
SGLLKLLAGASTKKKSRSPSPVSPTHDPQVAVDALLQGAVGPEVSSLSIHGRAGSCPIES  
EMQGAMGMEPLHRKAGSLDNFTSPSRQAPLSMAAIRPEPKLLPRERYRVVVSYPQSEA  
EIELKEGDIVFVHKKREDGWYKGTLQRNGRTGLFPGSFVESF

>sp|Q9BDT1|SHAS3\_HUMAN Putative uncharacterized protein SHANK2-AS3 OS=Homo sapiens  
GN=SHANK2-AS3 PE=5 SV=2

MAQLPSAQMPAPRTQPDILVHPVLALSGRAPSIILCSVPWDACELLATAMWWKTRILWGV  
FLISRTRPPAPMQILILTDPSEGEVCKKRRKPGQTGRNRVRMTTATCKPGGEASGETSP  
GTP

>sp|P04278|SHBG\_HUMAN Sex hormone-binding globulin OS=Homo sapiens GN=SHBG PE=1 SV=2

MESRGPLATSRLLLLLLLLLRRTRQGVALRPVLPTQSAHDPPAVHLSNGPGQEPIAVMT  
FDLTKITKTSSSFVVRTWDPEGVIFYGDTNPKDDWFMGLRDGRPEIQLHNHWAQLTVGA  
GPRLDDGRWHQVEVKMEGDSVLEVDGEEVLRLRQVSGPLTSKRHPIMRIALGGLFPAS  
NLRLPLVPALDGCLRRDSWLDKQAEISASAPTSLRSCDVESNPGIFLPPGTQAEFNLRDI  
PQPHAEPWAFSLDLGLKQAAGSGHLLALGTPENPSWLSLHLQDQKVVLSGSGPGLDLPL  
VLGLPLQLKLSMSRVVLSQGSKMALALPPLGLAPLLNLWAKPQGRLFLGALPGEDSSTS  
FCLNGLWAQGGRLDVDQALNRSHEIWITHSCPQSPGNGTDASH

>sp|Q15464|SHB\_HUMAN SH2 domain-containing adapter protein B OS=Homo sapiens GN=SHB PE=1  
SV=2

MAKWLNKYFSLGNSKTKSPQPPRPDYREQRRRGERPSQPPQAVPQASSAASASCGPATA  
SCFSASSGSLPDDSGSTSDLIRAYRAQKERDFEDPYNGPGSSLRKLRAMCRLDYCGGSGE  
PGGVQRAFSASSASGAAGCCCASSGAGAAASSSSSSGSPHYLRSSSERRPATPAEVRYIS  
PKHRLIKVESAAAGGAGDPLGGACAGGRTWSPTACGGKLLNKCAASAAEESGAGKKDKV  
TIADDYSDPDAKNDLKSKAGGESAGYMEPYEAQRIMTEFQRQESVRSQHKGILYDTP  
YEPEGQSDSDSESTVSPRLRESKLPQDDDRPADEYDQPWEWNRVTIPALAAQFNGNEKR  
QSSPSPSRDRRRQLRAPGGGFKPIKHGSPEFCGILGERVDPVPLEKQIWHGAISRGA  
ENLLRLCKESYLVRNSQTSKHDYSLSLRSNQGMHMKLAKTKEYVLGQNSPPFDSVPE  
VIHYTTRKLPKGAEHLSELLYPVAVRTL

>sp|P98077|SHC2\_HUMAN SHC-transforming protein 2 OS=Homo sapiens GN=SHC2 PE=1 SV=4

MTQGGPGRAPPAPPAPPEEAPTTFCALLPRMPQWKFAAPGGFLGRGPAAARAAGASGGA  
DPQPEPAGPGVPALAAAVLGACEPRCAAPCPLPALSRCRGAGSRGSRGGRGAAGSGDAA  
AAAEWIRKGSFIHKPAHGWLHPDARVLGPGVSYVVRYMGCIEVLRSMSLDFNTRTQVTR  
EAINRLHEAVPGVRGSWKKKAPNKALASVLGKSNLRFAGMSISIHISTDGLSLSPATRQ  
VIANHHMPSISFASGGDTDMTDYVAYVAKDPINQRACHILECCEGLAQSIISTVGQAFEL  
RFKQYLHSPPKVALPPERLAGPEESAWGDEEDSLEHNYNSIPGKEPPLGGLVDSRLALT  
QPCALTALDQGPSPLRDACSLPWDVGSTGTAPPGDGYVQADARGPPDHEEHLVNTQGL  
DAPEPEDSPKKDLFDMRPFEDALKLHECSVAAGVTAAPLPLEDQWPSPPTRRAPVAPTEE  
QLRQEPWYHGRMSRRAAERMLRADGDFLVRDSVTNPGQYVLTGMHAGQPKHLLLDPEGV  
VRTKDVLFESISHLIDHHLQNGQPIVAAESELHLRGVVSREP

>sp|Q6PI26|SHQ1\_HUMAN Protein SHQ1 homolog OS=Homo sapiens GN=SHQ1 PE=1 SV=2



MLTPAFDLSQDPDFLTIAIRVPYARVSEFDVYFEGSDFKFYAKPYFLRLTLPGRIVENG  
EQGSYDADKGIFTIRLPKETPGQHFEGLNMLTALLAPRKSRTAKPLVEEIGASEIPEEVV  
DDEEFDWEIEQTPCEEVSSEALNPQCHYGFGNLRSGVLQRLQDELSVDIDIKDPDFTPAA  
ERRQKRLAAELAKFDPDHYLADFFEDEAIEQILKYNPWWTDKYSKMMAFLEKSQEENHA  
TLVSFSEEEKYQLRKFNKSYLLDKRACRQVCYSLIDILLAYCYETRVTEGEKNVESAWN  
IRKLSPTLCWFETWTNVHDIMVSFGRRVLCYPLYRHFKLVMKAYRDTIKILQLGKSAVLK  
CLLDIHKIFQENDPAYILNDLYISDYCVWIQKVKSCLAALAEALKEVSLTKAQLGLELE  
ELEAAALLVQEEETALKAAHSVSGQQTLCSSSEASDSEDSDSSVSSGNEDSGSDSEQDEL  
KDSPSETVSSLQGPFLSESAFLIVDGGVRRNTAIQESDASQGKPLASSWPLGVSGPLIE  
ELGEQLKTTVQVSEPKGTTAVNRSNIQERDGCQTPNN

>sp|Q8TF72|SHRM3\_HUMAN Protein Shroom3 OS=Homo sapiens GN=SHROOM3 PE=1 SV=2

MMRTTDFHKPSATLNSNTATKGRIYILEAFLEGGAPWGFTLKGGLHEGELIISKVEEG  
GKADTLSSKLQAGDEVVHINEVTLSSSRKEAVSLVKGSYKTLRLVVRDVCCTDPGHADTG  
ASNFSPEHLTSGPQHRKAAWGGVKRLRLKHRRSEPAGRPHSWHTTKSGEKQPDASMMQI  
SQGMIGPPWHQSYHSSSSTSDLSNYDHAYLRRSPDQCSSQGSMELEPSGAYPPCHLSPA  
KSTGSIDQLSHFHNKRDSAYSSFSTSSSILEYHPHGISGRERSGMDNTSARGGLEGMR  
QADIRYVKTVDTRRGVSAEYEVNSSALLLQGREARASANGQGYDKWSNIPRGKGVPPPS  
WSQQCPSSLETATDNLPPKVGAPLPPARSDSYAAFRHRERPSWSSLDQKRLCRPQANSL  
GSLKSPFIEEQLHTVLEKSPENSPPVKPHNYTQKAQPGQPLLPTSIYPVPSLEPHFAQV  
PQPSVSSNGMLYPALAKESGYIAPQGACNKMATIDENGQNGSGRPGFAFCQPLEHDLLS  
PVEKKPEATAKYVPSKVHFCSPVENEEDASLKRHLTPPQGNPHSNERKSTHSNKPSSHP  
HSLKCPQAQAWAGEDKRSSRLSEPWEGDFQEDHNANLWRRLEREGLGQSLSGNFGKTKS  
AFSSLQNIPESLRRHSSLELRGTQEGYPGGRPTCAVNTKAEDPGRKAAPDLGSHLDRQV  
SYRPEGRGTGASASFNSTDPSPEEPPAPSHPTSSLGRRGPGPGSASALQGFGYKPHCS  
VLEKVSKEFEQREQSQRPVGGSGFGHNYRPHRTVSTSTSGNDFEETKAHIRFSESAEP  
LGNGEQHFKNELKLEEASRQPCGQQLSGGASDSGRGPQRPDARLLRSQSTFQLSSEPER  
EPEWRDRPGSPESPLLDAPFSRAYRNSIKDAQSRVLGATSFRRRDLELGAPVASRSWRPR  
PSSAHVGLRSPEASASAPHTPRERHSVTPAEGDLARPVPPAARRGARRRLTPEQKKRSY  
SEPEKMNEVGIVEEAEPALGPQRNGMRFPESSVADRRRLFERDGKACSTLSLGPGLKQ  
FQQSALADYIQRKTGKRPTSAAGCSLQEPGPLRERAQSAYLQGPAALEGSGLASASSLS  
SLREPSLQPRREATLLPATVAETQQAPDRSSSFAGGRRLGERRRGDLLSGANGGTRGTQ  
RGDETREPSSWGARAGKSMAEDLLERSDVLGPVHVRSSPATADKRQDVLLGQDSG  
FGLVKDPCYLAGPGSRSLSCSERGQEMLPLFHHLTPRWGGSGCKAIGDSSVPSECPGTL  
DHQRQASRTPCPRPLAGTQGLVTDTRAAPLTPIGTPLPSAIPSGYCSQDQGTGRQPLPP  
YTPAMMHRNSGHTLTQPPGPRGCEGDGPEHGVEEGTRKRVSPLQWPPPSRAKWAHAARED  
SLPEESSAPDFANLKHYYKQQLSLSLCSTSDPDTPLGAPSTPGRISLRISSESVLRDSPPP  
HEDYEDEVFVRDHPHKATSSPTFEPLPPPPPPPSQETPVYSMDDFPPPPHTVCEAQLD  
SEDPEGPRPSFNKLSKVTIARERHMPGAHVVSQTLASRLQTSIKGSEAESTPPSFMVS  
HAQLAGSLGGQPAPIQTQSLSHDPVSGTQGLEKKVSPDPQKSSDIRTEALAKEIVHQDK  
SLADILDPSRLKTTMDLMEGLFPRDVNLLKENSVKRKAIQRTVSSSGCEGKRNEDEAV  
SMLVNCPAYYSVSAPKAELLNKIKEMPAEVNEEEQADVNEKKAELIGSLTHKLETLQEA  
KGSLLTDIKLNNALGEEVEALISELCKPNEFDKYRMFIGDLKVVNLLLSLSGRLARVEN  
VLSGLGEDASNEERSSLYEKKILAGQHEDARELKENLDRRERVVLGILANYLSEEQLQD  
YQHFVKMKSTLLIEQRKLDDKIKLGQEQVKCLLESLSDFIPKAGALALPPNLTSEPIPA



TNYDTPLWLNTGKPPARKDDPLHDPTKDKTNLIVYIICGVVAVMVLVGIFTKLGLEKAHR  
PQREHMSRALADVMRPQGHCNTDHMERDLNIVVHVQHYENMDTRTPINNLHATQMNNVAVP  
TSPLLQQMGPHPSYPNLGGISNPYEQPPGKELNKYASLKAVGSSDGDWAVSTLKSAD  
KVNDFFYTKRRHLAELAAKGNLPLHPVRVEDEPRAFSPEHGPAKQNGQKSRTNKMPPHPL  
AYTSTTNFKGWDPNESLRRQAYSNGKLGTAETGSSDPLGTRPQHYPYPPQPYFITNSKT  
EVTV

>sp|Q8TCY0|SI11B\_HUMAN Small integral membrane protein 11B OS=Homo sapiens GN=SMIM11B  
PE=3 SV=1

MNWKVLGTGTTSPWRVRMEFPLCGCLSLILHHFADKEGRTIGRRESCLATIWTISRPAWA  
GSLWITLS

>sp|Q11206|SIA4C\_HUMAN CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-  
sialyltransferase 4 OS=Homo sapiens GN=ST3GAL4 PE=2 SV=1

MVSKSRWKLAMALVLVVMVWYSISREDRYIELFYFPIPEKKEPCLQGEASKASKLFG  
NYSRDQPIFLREDYFWVKTPSAYELPYGTGSEDLLRLVLAITSSIPKNIQSLRCRRC  
VVVGNGHRLRNSSLGDAINKYDVVIRLNNAPVAGYEGDVGSKTMTMLFYPESAHPDPKVE  
NNPDTLVLVAFKAMDFHWIETILSDKKVRKGFWKQPLIWDVNPQIRILNPFMEIA  
ADKLLSLPMQPRKIKQKPTTGLLAITLALHLCDLVHIAGFGYPDAYNKKQTIHYEQIT  
LKSMAGSGHNVSQEALAIKRMLEMGAIKNLTSF

>sp|P61647|SIA8F\_HUMAN Alpha-2,8-sialyltransferase 8F OS=Homo sapiens GN=ST8SIA6 PE=2  
SV=1

MRPGGALLALLASLLLLLLRLWCPADAPGRARILVEESREATHGTPAALRTLRSPTA  
VPRATNSTYLNEKSLQLTEKCKNLQYGIESFSNKTGYSENDYLQIITDIQSCPWKRAE  
EYANFRAKLASCCDAVNQNFVVSQNTPTVGTNMSYEVESKKEIPKKNIFHMFVSPQPFVD  
YPYNQCAVVGNGGILNKSICGTEIDKSDFVFRCLNPPTTGDVSKDVGSKTNLVTINPSII  
TLKYGNLKEKKALFLEDIATYGDAFFLLPAFSFRANTGTSFKVYYTLEESKARQKVLFFH  
PKYKDLALFWRTKGVTAIRLSTGLMITSVAVELCKNVKLYGFWPFSKTVEDIPVSHHY  
DNKLPHKGFHQPKEYSQILQLHMKGILKLQFSKCEVA

>sp|Q11203|SIAT6\_HUMAN CMP-N-acetylneuraminate-beta-1,4-galactoside alpha-2,3-  
sialyltransferase OS=Homo sapiens GN=ST3GAL3 PE=1 SV=1

MGLLVFVRNLLLALCLFLVLGFLYSAWKLHLLQWEEDSNSVLSFDSAGQTLGSEYDRL  
GFLNLDKSLPAELATKYANFSEGACKPGYASALMTAIFPRFSKPAPMFLDDSRKWARI  
REFVPPFGIKGQDNLIKAILSVTKEYRLTPALDSLRCRCIIIVGNGVLANKSLGSRIDD  
YDIVVRLNSAPVKGFEKDVGSKTTLRITYPEGAMQRPEQYERDSLFLAGFKWQDFKWLK  
YIVYKERSASDGFVKSVAIRVPKEPPEIRILNPYFIQEAAFTLIGLPFNGLMGRGNIP  
TLGSAVTMALHGCDEVAVAGFGYDMSTPNAPLHYETVRMAAIKESWTHNIQREKEFLR  
KLVKARVITDLSSGI

>sp|Q96RL6|SIG11\_HUMAN Sialic acid-binding Ig-like lectin 11 OS=Homo sapiens GN=SIGLEC11  
PE=1 SV=2

MVPGQAQPPQPEMLLLPLLLPVLGAGSLNKDPSYSLQVQRQVPVPEGLCVIVSCNLSYPR  
DGWDESTAAYGYWFKGRTSPKTGAPVATNNQSREVMSTRDRFQLTGDPGKGSCSLVIRD  
AQREDEAWYFFRVERGSRVRSFSLNAFFLKVTALTKKPDVYIPETLEPGQPVTVICVFN  
WAFKKCPAPSFWSGTGAALSPRRTRPSTSHFVLSFTSPSQDHDLDLCHVDFSRKGVSAQ  
RTVRLRVAYAPKDLIISISHDNTSALELQGNVIYLEVQKGGFLRLCAADSQPPATLSWV  
LQDRVLSSSHWPGRPTLGLRLGRVAGDSGRYTCRAENRLGSQQALDLSVQYPENLRV

MVSQANRTVLENLNGTSLPVLEGQSLRLVCVTHSSPPARLSWTRWGQTVGPSQPSDPGV  
LELPPIQMEHEGEFTCHAQHPLGSQHVSLSLSVHYPPQLLGPSCSWEAEGLHCSCSSQAS  
PAPSLRWLGEELLEGNSSQGSFEVTPSSAGPWANSSLSLHGGLSSGLRLRCKAWNVHGA  
QSGSVFQLLPGLKLEHGGGLGLGAALGAGVAALLAFCSCLVVRVKICRKEARKRAAAEQD  
VPSTLGPISQGHQHECSAGSSQDHPPPGAATYTPGKGEEQELHYASLSFQGLRLWEPADQ  
EAPSTTEYSEIKIHTGQPLRGPFGFLQLEREMSGMVPK

>sp|Q9Y2K2|SIK3\_HUMAN Serine/threonine-protein kinase SIK3 OS=Homo sapiens GN=SIK3 PE=1  
SV=3

MPARIGYYEIDRTIGKGNFAVVKRATHLVTKAKVAIKIIDKTQLDEENLKKIFREVQIMK  
MLCHPHIIRLYQVMETERMIYLVTEYASGGEIFDHLVAHGRMAEKEARRKFKQIVTAVYF  
CHCRNIVHRDLKAENLLLDANLNIAIDFGFSNLFTPGQLLKTWCGSPPYAAPELFEGKE  
YDGPVKDIWSLGVLYVLVCGALPFDGSTLQNLRARVLSGKFRIPFFMSTECEHLIRHML  
VLDPNKRLSMEQICKHKWMKLGADPNFDRLIAECQQLKEERQVDPLNEDVLLAMEDMGL  
DKEQTLQSLRSDAYDHYSAIYSLLCDRHKRHKTLRLGALPSMPRALAFQAPVNIQAEQAG  
TAMNISVPQVQLINPENQIVEPDGTLNLDSDEGEEPSPEALVRYLSMRRHVTGVADPRTE  
VMEDLQKLLPGFPGVNPQAPFLQVAPNVNFMHNLPMQNLQPTGQLEYKEQSLLQPPTLQ  
LLNGMGPLGRRASDGGANIQLHAQQLLKRPRGPSPLVTMTPAVPAVTPVDEESSDGEPDQ  
EAVQSSTYKDSNTLHLPTERFSPVRRFSDGAASIQAFAKHALEKMGNNSSIKQLQCECEQL  
QKMYGGQIDERTLEKTQQQHMLYQQEQHHQILQQQIQDSICPPQPSPLQAACENQPALL  
THQLQLRLRIQPSSPPNHPNHLFRQPSNSPPPMSAMIQPHGAASSSQFQGLPSRSAIF  
QQQPENCSSPPNVALTCLGMQQAQSQQVTIQVQEPVDMLSNMPGTAAGSSGRGISISPS  
AGQMQMQRHTNLMATLSYGHRPLSKQLSADSAEASLNVNRFSPANYDQAHLPPLFSDQ  
SRGSPSSYSPSTGVGFSPTQALKVPPLDQFPTFPPSAHQPPHYTTSALQQALLSPTPPD  
YTRHQQVPHILQGLSPRHSLTGHSDIRLPTEFAQLIKRQQQRQQQQQQQQQEQYQEL  
FRHMNQGDAGSLAPSLGGQSMTERQALSYQNADSYHHHTSPQHLLQIRAQECVSQASSPT  
PPHYAHQPALMHSEMEEDCSCEGAKDGFQDSKSSSTLTGCHDSPLLLSTGGPGDPES  
LLGTVSHAQELGIHPYGHQPTAAFSKNKVPSPREPVIGNCMRSPGQAVELPDHNLGYP  
ARPSVHEHHRPRALQRHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVLSQSSLM  
GSQQFQDGENEECGASLGGHEHPDLSDGSQHLNSSCYPSTCITDILLSYKHPEVSFSMEQ  
AGV

>sp|PODMW4|SIL2A\_HUMAN Small integral membrane protein 10-like protein 2A OS=Homo sapiens  
GN=SMIM10L2A PE=4 SV=1

MAASAALSAAAAAALSGLAVRLSRSAARGSYGAFCKGLTRTLLTFFDLAWRLRMNFPY  
FYIVASVMLNVRLQVRIE

>sp|A6NLE4|SIM23\_HUMAN Small integral membrane protein 23 OS=Homo sapiens GN=SMIM23 PE=2  
SV=3

MATQQVDSRRQVAEEQVAAQLLERRRGSHCDDEKQTLALLILVLYLSTEIWSSWEVSE  
RIRECNYYQNLAVPQGLEQTNEPSEEPKTIKRNWLKEKLHVSEKLEEEVQQLEQLAWD  
LELWLDALLGEPHQEEHCSTYKSHLWEWAWALGREHKGEGLEISLSGAEL

>sp|075182|SIN3B\_HUMAN Paired amphipathic helix protein Sin3b OS=Homo sapiens GN=SIN3B  
PE=1 SV=2

MAHAGGSGSGGAGGPAGRGLSGARWGRSGSAGHEKLPVHVEDALTYLDQVKIRFGSDPA  
TYNGFLEIMKEFKSQSIDTPGVIIRRVSQLFHEHPDLIVGFNAFLPLGYRIDIPKNGKLN  
QSPLTSQENSHNHGDGAEDFKQVPYKEDKPQVPLESDSVEFNNAISYVNKIKTRFLDHP

EIYRSFLEILHTYQKEQLNTRGRPFGRMSEEEVFTEVANLFRGQEDLLSEFGQFLPEAKR  
SLFTGNGPCEMHSVQKNEHDKTPEHSRKRSRPSLLRPVSAPAKKKMKLRGTDLSIAAVG  
KYGTLQEFSSFFDKVRRVLKSQEVYENFLRCIALFNQELVSGSELLQLVSPFLGKFPELFA  
QFKSFLGVKELSFAPPMDSRSGDGSREIDYASCKRIGSSYRALPKTYQQPKCSGRTAIC  
KELDHWTLQGSWTDDYCMSKFKNCTWIPGYSAGVLNDTWVSFPSWSEDSTFVSSKKTYPY  
EEQLHRCEDERFELDVVLETNLATIRVLESVQKKLSRMAPEDQEKFRLLDSDLGGTSEVIQ  
RRAIYRIYGDKAPEIIESLKKNPVTAVPVVLKRLKAKEEEWREAQQGFNKIWREQYEKAY  
LKSLDHQAVNFKQNDTKALRSKSLNEIESVYDEHQEQHSEGRSAPSSEPHLIFVYEDRQ  
ILEDAAALISYYVKRQPAIQKEDQGTIHQLLHQFVPSLFFSQQLDLGASEESADEDSDSP  
QQGTTDPSERKKPAPGPHSSPPEEKGAFGDAPATEQPPLPPPAPHKPLDDVYSLFFANN  
WYFFLRHLHQLTCSRLLKIYRQAQKQLLEYRTEKEREKLLCEGRREKGS DPAMELRKQPS  
EVELEEYYP AFLDMVRSLLGSDIPTQYEDTLREMFTIHAYVGFTMDKLVQNIARQLHHL  
VSDDVCLKVVELYLNEKKRGAAGGNLSSRCVRAARETSYQWKAERCMADENCFKVMFLQR  
KGQVIMTIELDTEEAQTEDPVEVQHLARYVEQYVGTEGASSPTEGFLLKPVFLQRNLK  
KFRRRWQSEQARALRGEARSSWKRLVGVESACDVDCRFKLSTHKMFIVNSEDYMYRRGT  
LCRAKQVQPLVLLRHHQHFEWHSRWLEDNVTVEAASLVQDWLMGEEDEDMVPCKTLCET  
VHVHGLPVTRYRVQYSRRPASP

>sp|Q9Y6E7|SIR4\_HUMAN NAD-dependent protein lipamidase sirtuin-4, mitochondrial OS=Homo sapiens GN=SIRT4 PE=1 SV=1

MKMSFALTFRSAKGRWIANPSQPCSKASIGLFVPASPPLDPEKVKELQRFITLSKRLLVM  
TGAGISTESGIPDYRSEKVGLYARTDRRPIQHGDFVRSAPIRQRYWARNFVGWPQFSSHQ  
PNPAHWALSTWEKLGKLYWLVTQNV DALHTKAGSRRLTELHGCMDRVLCDCGEQTPRGV  
LQERFQVLNPTWSAEAHGLAPDGDVFLSEEQVRSFQVPTCVQCGHLKPDVVFVFGDTVNP  
DKVDFVHKRVKEADSLLVGSSLQVYSGYRFLTAWKKLPITAILNIGPTRSDDLACLKL  
NSRCGELLPLIDPC

>sp|Q8N6T7|SIR6\_HUMAN NAD-dependent protein deacetylase sirtuin-6 OS=Homo sapiens GN=SIRT6 PE=1 SV=2

MSVNYAAGLSPYADKKGKGLPEIFDPPEELERKVVWELARLVWQSSSVVFHTGAGISTASG  
IPDFRGPBGVWMEERGLAPKFDTTFESARPTQTHMALVQLERVGLLRFLVSQNV DGLHV  
RSGFPRDKLAELHGNMFVEECAKCKTQYVRD TVVGTMGLKATGRLCTVAKARGLRACRGE  
LRDTILDWEDSLPDRDLALADEASRNADLSITLGTSLQIRPSGNLPLATKRGGRLVIVN  
LQPTKHDRHADLRIHGYVDEVMTRLMKHLGLEIPAWDGPRLERLALPPLPRPPTPKLEPK  
EESPTRINGSIPAGPKQEPQAQHNSEPA SPKRERPTSPAPHRPPKRVKAKAVPS

>sp|Q15475|SIX1\_HUMAN Homeobox protein SIX1 OS=Homo sapiens GN=SIX1 PE=1 SV=1

MSMLPSFGFTQEQVACVCEVLQQGGNLERLGRFLWSPACDHLHKNESVLKAKAVVAFHR  
GNFRELYKILESHQFSPHNHPKLQQLWLKAHYVEAEKLRGRPLGAVGKYRVRRKFPLPRT  
IWDGEETSYCFKEKSRGVLREWYAHNPYPSPREKRELAETGLTTTQVSNWFKNRRQRDR  
AAEAKEERENTENNNSSNKQNLSPLEGGKPLMSSSEEEFSPQSPDQNSVLLLQGNMGH  
ARSSNYSPLGTASQPSHGLQTHQHLQDSLLGPLTSSLVDLGS

>sp|O95391|SLU7\_HUMAN Pre-mRNA-splicing factor SLU7 OS=Homo sapiens GN=SLU7 PE=1 SV=2

MSATVVDAVNAAPLSGSKEMSLEEPKKMTREDWRKKKELEEQRKLGNAPEVDEEGKDIN  
PHIPQYISSVPWYIDPSKRPTLKHQRPQPEKQKQFSSSGEWYKRGVKENSIITKYRKGAC  
ENCGAMTHKKKDCFERPRRVGAKFTGTNIAPDEHVQPQLMFDYDGKRDRWNGYNPEEHMK  
IVEEYAKVDLAKRTLKAQKLQEELASGKLVEQANSPKHQWGEEEPNSQMEKDHNSEDEDE

DKYADDIDMPGQNFDSKRRTVRNLRREDIAKYLRNLDPN SAYYDPKTRAMRENPYANA  
GKNPDEVSYAGDNFVRYTGD TISMAQTQLFAWEAYDKGSEVHLQADPTKLELLYKSFVKV  
KEDFKEQQKESILEKYGGQEHLDAPPAELLLAQTEDYVEYSRHGTVIKGQERAVACSKYE  
EDVKIHNHTHIWGSYWKEGRWGYKCCHSFFKYSYCTGEAGKEIVNSEECINEITGEESV  
KKPQTLMEHLHQEKLKEEKKKKKKKKKKHRKSSSDSDDEEKKHEKLKKALNAEEARLLHVK  
ETMQIDERKRPPYNSMYETREPTEEEMEAYRMKRQRPDDPMASFLGQ

>sp|O15198|SMAD9\_HUMAN Mothers against decapentaplegic homolog 9 OS=Homo sapiens GN=SMAD9  
PE=1 SV=1

MHSTTPISLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDSLVKLKKKKGAMDELERALS  
CPGQPSKCVTI PRSLDGRLQVSHRKGLPHV IYCRVWRWPD LQSHHEKPLECCEFPFGSK  
QKEVCINPYHYRRVETPVLPPVLVPRHSEYNQLSLLAKFRSASLHSEPLMPHNATYPDS  
FQQPPCSALPPSPSHAFSQSPCTASYPHSPGSPSEPESPYQHSVDTPPLPYHATEASETQ  
SGQPVDATADRHVLSIPNGDFRPVCYEEPQHWCSVAYYELNNRVGETFQASSRSVLIDG  
FTDPSNNRNRFLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECVSDSSIFVQSR  
NCNYQHGFHPATVCKIPSGCSLKVFNNQLFAQLLAQSVHHGFVVYELTKMCTIRMSFVK  
GWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTMGSPHNPISSVS

>sp|Q5PRF9|SMAG2\_HUMAN Protein Smaug homolog 2 OS=Homo sapiens GN=SAMD4B PE=1 SV=1

MMFRDQVGILAGWFKGWNECEQTVALLSLLKRVTRTQARFLQLCLEHSLADCNDIHLLES  
EANSAAIVSQWQESKEKVVSLLSHLPLLQPGNTEAKSEYMRLQKVLAYSIESNAFIE  
ESRQLLSYALIH PATTLED RNALALWLSHLEERLASGFRSRPEPSYHSRQGSDEWGGPAE  
LGPGEAGPGWQDKPPRENGHVPFHPSSSVPPAINSIGSNANTGLPCQIHPSP LKRMSLI  
PTSPQVPGEWPSPEELGARA AFTTPDHAPLS PQSSVASSGSEQTEEQGSSRNTFQEDGSG  
MKDVPSWLKSLRLHKY AALFSQMSYEEMMTLTEQHLESQNVTKGARHKIALSIQKL RERQ  
SVLKSLEKDVLEGGLRNALQELQQIIITPIKAYSVLQATVAAATTTPTAKDGAPGEPPL  
PGAEPPLAHPGTDKGTEAKDPPAVENYPPPPAPAPTGDGSEPAPAPVADGDIPSQFTRVMG  
KVCTQLLVSRPDEENITSYLQ LIEKCLTHEAFTETQKKRLLSWKQQVLKLLRTFPRKAAL  
EMQNYRQQKGWAFGSNSLP IAGSVGMGVARRTQRQFPMPPRALPPGRMGLLSPSGIGGVS  
PRHALTSPSLGGQGRQNLWFANPGGSNSMPSQSRSSVQRTHSLPVHSSPQA ILMFP PDCP  
VPGPDLEINPTLES LCLSMTEHALGDGTDKTSTI

>sp|Q9UHJ3|SMBT1\_HUMAN Scm-like with four MBT domains protein 1 OS=Homo sapiens GN=SFMBT1  
PE=1 SV=2

MNGEQQLDADAGSGMEEVELSWEDYLEETGSTAVPYGSFKHVDTRLQNGFAPGMKLEVAV  
RTDPETYWVATVITTC EQLLLLRYDGYGEDRRADF WC DIRKADLYPIGWCEQNKKTLEAP  
EGIRDKVSDWDEFLRQTLIGACSPVPVPLEGLRNGRNPLDLIAPGSRLECQAFQDSLSTW  
IVTVVENIGGRLK RYEGLESSDNYEHWLYYLDPFLHHVGWAAQQGYELQPPSAIRHLKN  
EAEWQEILAKVKEEEEELPSYLFKDKQVIGIHTFSVNMKLEAVDPWSPFGISPATVVKV  
FDEKYFLVEMDDL RPENHARRSFVCHADSPGIFPVQWSLKNGLHISPPPGYPSQDFDWAD  
YLKQCGAEAAPQRCFPPLISEHEFKENMKLEAVNPILPEEVCVATITAVRGSYLWLQLEG  
SKKPIPECIVSVESMDIFPLGW CETNGHPLSTPRRARVYKQRKIAVVQPEKQVPSSRTVH  
EGLRNQELNSTESVMINGKYCCPKIYFNHRCFSGPYLNKGRI AELPQCVGPGNCV LVLRE  
VLTLLINAAYKPSRVLRELQLDKDSVWHGCGEVLKAKYKGKSYRATVEIVKTADRVTEFC  
RQTCIKLECCPNLFGPRMVLDKCSENC SVLTKTKYTHYYGKKKNKRIGRPPGGHSNLACA  
LKKASKRRKRKNV FVHKKRSSASVDNTPAGSPQSGGEDEDDPDEGDDDSLSEGSTSE  
QQDELQEESEMSEKSCSSSPTQSEISTSLPPDRQRRKRELRTFSFSDDENKPPSPKEIR

IEVAERLHLSNPLKWSVADVVRFIRSTDCAPLARIFLDQEIDGQALLLTLPTVQECMD  
LKLGPAIKLCHHIERIKFAFYEQFAN

>sp|Q9NTJ3|SMC4\_HUMAN Structural maintenance of chromosomes protein 4 OS=Homo sapiens  
GN=SMC4 PE=1 SV=2

MPRKGTPSTARRREEGPPPPSPDGASSDAEPEPPSGRTESPATAAETASEELDNRSL  
EILNSIPPPPPAMTNEAGAPRLMITHIVNQNFKSYAGEKILGPFHKRFSCIIGPNGSGKS  
NVIDSMLFVFGYRAQKIRSKKLSVLIHNSDEHKDIQSCTVEVHFQKIIDKEGDDYEVIPN  
SNFYVSRTACRDNTSVYHISGKKKTFKDVGNLLRSHGIDLDHNRFLILQGEVEQIAMMKP  
KGQTEHDEGMLEYLEDIIGCGRLNEPIKVLCCRVEILNEHRGEKLNVRVKMVEKEKDALEG  
EKNIAIEFLTLENEIFRKNHVCQYYIYELQKRIAEMETQKEKIHEDTKEINEKSNILSN  
EMKAKNKDVKDTEKKLNKITKFIENKEKFTQLDLEDVQVREKLKHATSKAKKLEKQLKQ  
DKEKVVEFKSIPAKSNINIETTRNNALEKEKEKEEKKLKEVMSLQKETQGLQKEKES  
REKELMGFSKSVNEARSKMDVAQSELDIYLSRHNTAVSQTAKAEALIAASETLKERKAA  
IRDIEGKLPQTEQELKEKEKELQKLTQEETNFKSLVHDLFQKVEEAKSSLAMNRSRGKVL  
DAIIQEKKSGRIPGIYGRLDGALDEKYDVAISSCCHALDYIVVDSIDIAQECVNFLKR  
QNIGVATFIGLDKMAVWAKKMTETPTENTPRLFDLVKVKDEKIRQAFYFALRDTLVADN  
LDQATRVAQKDRRWVVTLLQGQIIIEQSGTMTGGGSKVMKGRMGSSLVIEISEEVENKME  
SQLQNDSSKAMQIQEQKVQLEERVVKLRHSEREMRNTLEKFTASIQRLIEQEEYLVNVQVK  
ELEANVLATAPDKKKQKLEENVSAFKTEYDAVAEKAGKVEAEVKRLHNTIVEINNHKLK  
AQQDKLDKINKQDECAITAQVAIKTADRNLQKAQDSVLRTEKEIKDTEKEVDDLTA  
ELKSLEDKAAEVVKNNTAAEESLPEIQKEHRNLLQELKVIQENEHALQKDALSIKLKLEQ  
IDGHIAEHNSKIKYWHKEISKISLHPIEDNPIEEISVLSPEDELAIKNPDSITNQIALLE  
ARCHEMKPNLGAIAEYKKKEELYLQ RVAELDKITYERDSFRQAYEDLRKQRLNEFMAGFY  
IITNKLKENYQMLTLGGDAEELVDSLDPFSEGIMFSVRPPKKSWKKIFNLSGGEKTLSS  
LALVFALHHYKPTPLYFMDIDAALDFKNVSIVAFYIYEQTNAQFIIISLRNNMFEISD  
RLIGIYKTYNITKSVAVNPKEIASKGLC

>sp|A6NFE2|SMC02\_HUMAN Single-pass membrane and coiled-coil domain-containing protein 2  
OS=Homo sapiens GN=SMC02 PE=2 SV=2

MALTPTNLNNKMSLQMKMDCQEQQLTKKNNGFFQKLVNTEGAMQDLLKEIKVDHILDRS  
DDEDDISSENPTDFLHKGMLELEAEHDQDLSKQDKQETDVDEDPQASTSLQFSKKNLLE  
LCLKGMFLKLNWNTKIGLQVKELGADYIDGTEKIDNIKKINVTENTVKSLLKDMTLK  
GQIEKLEDRLDLQGTSTEVNTCNEVYELKKKVIERLEDLCKNVELLSAKLRMYQMEAE  
DTDHSSEEIDTEEMEALLPQAPASFLVQKSPPRNTAWKRALRIFIMFDVLTVTGLLCYI  
LFFGATFLFERVLLRMLGCRTTWDLREMPFLNLEVEALLPS

>sp|Q9NRQ5|SMC04\_HUMAN Single-pass membrane and coiled-coil domain-containing protein 4  
OS=Homo sapiens GN=SMC04 PE=1 SV=1

MRQLKGKPKKETSCKDKKERKQAMQEARQQITTVVLPTLAVVLLIVFVYVATRPTITE

>sp|Q8TEV9|SMCR8\_HUMAN Smith-Magenis syndrome chromosomal region candidate gene 8 protein  
OS=Homo sapiens GN=SMCR8 PE=1 SV=2

MISAPDVVAFTKEEEYEEEPYNEPALPEEYSVPLFPFASQGANPWSKLSGAKFSRDFILI  
SEFSEQVGPQPLLTIPNDTKVFGTDFDLNYFSLRIMSVDYQASVFGHPPGSAYPKLNFVED  
SKVVLGDSKEGAFAYVHHLTLYDLEARGFVRPFCMAYISADQHKIMQQFQELSAEFSRAS  
ECLKTGNRKAFAGELEKKLKDLDYTRTVLHTETETIQKKANDKGFYSSQAIEKANELASVE  
KSIIEHQDLLKQIRSYPHRKLKGHDLCPGEMEHIQDQASQASTTSNPDESADTDLYTCRP

AYTPKLIKAKSTKCFDKKLTLEELCDTEYFTQTLAQLSHIEHMFGRDLCYLLTSQIDRA  
LLKQQHITNFLFEDFVEVDDRMVEKQESIPSKPSQDRPPSSSLEECPIPKVLISVGSYKS  
SVESVLIKMEQELGDEEYKEVEVTELSFDPPQENLDYLDMDMKGSISSGESIEVLGTEKS  
TSVLSKSDSQASLTVPLSPQVVRKAVSHRTISEDSEIHLSTCPSEALIPDDFKASYPSA  
INEEESYPDGNAGAIRFQASISPPELGETEEGSIENTPSQIDSSCCIGKESDGLVLPST  
PAHTHSDDEDGVVSSPPQRRHQKDQGRVDFSVENANPSSRDNSCEGFPAYELDPSHLLAS  
RDISKTSLDNYSDDTSYVSSVASTSSDRIPSAYPAGLSSDRHKKRAGQNALKFIRQYPFA  
HPAIYSLLSGRTLVLGDEDAIVRKLVTALAI FVPSYGCYAKPVKHWASSPLHIMDFQKW  
KLIGLQRVASPAGAGTLHALSRYSTRYSILDLDNKTLCPLRYGTLPRLADHRTQIKRG  
STYYLHVQSMLTQLCSKAFLYTFCHHLHLPHTDKETEELVASRQMSFLKLTGLVNDVDR  
VVQYLAELLKLHYMQESPGTSHPMRLFDYVPSFLYKI

>sp|Q6P435|SMG1\_HUMAN Putative uncharacterized SMG1-like protein OS=Homo sapiens PE=5  
SV=1

MSRRAPGSRLSSGGTNYSRSWNDWQPRTDSASADPGNLKYSSSRDRGGSSSYGLQPSNSA  
VVSRQRHDDTRVHADIQNDEKGGYSVNGGSGENTYGRKSLGQELRVNNVTSPEFTSVQHG  
SRALATKDMRKSQERSMSYCDERLSNLLRRITREDDRD

>sp|Q96Q15|SMG1\_HUMAN Serine/threonine-protein kinase SMG1 OS=Homo sapiens GN=SMG1 PE=1  
SV=3

MSRRAPGSRLSSGGGGGTYKPRSWNDWQPRTDSASADPDNLKYSSSRDRGGSSSYGLQP  
SNSAVVSRQRHDDTRVHADIQNDEKGGYSVNGGSGENTYGRKSLGQELRVNNVTSPEFTS  
VQHGSRALATKDMRKSQERSMSYCDERLSNLLRRITREDDRDRLATVKQLKEFIQQPE  
NKLVLVKQLDNILAAVHDVLNESSKLLQELRQEGACCLGLLCASLSYEAEIFKWIFSKF  
SSSAKDEVKLLYLCAATYKALETVGKKAFSSVMQLVMTSLQSILENVDTPELLCKCVKCI  
LLVARCYPHIFSTNFRDITVDILVGWHIDHTQKPSLTQQVSGWLQSLEPFVWADLAFSTTL  
LGQFLEDMEAYAEDELSHVASGESVDEDVPPPSVSLPKLAALLRVFSTVVRISIGERFSPIR  
GPPITEAYVTDVLYRMRCVTAAQVFFSEAVLTAANECVGVLLGSLDPSMTIHCDMVIT  
YGLDQLENCQTCGTDYIISVLNLLTLIVEQINTKLPSSFVEKLFIPSSKLLFLRYHKEKE  
VVAVAHAVYQAVLSLKNIPVLETAYKLIIGEMTCALNNLLHSLQLPEACSEIKHEAFKNH  
VFNVDNAKFVVI FDL SALTIGNAKNSLIGMWALSPTVFALLSKNLMIVHSDLAHFPAI  
QYAVLYTLYSHCTRHDHFISSSLSSSSPSLFDGAVISTVTTATKKHFSIILNLLGILLKK  
DNLNQDTRKLLMTWALEAAVLMKKSETYAPLFSLPFHKFCKGLLANTLVEDVNICLQAC  
SSLHALSSSLPDDLQRCVDVCRVQLVHSGTRIRQAFGKLLKSIPLDVVLSNNNHTETQE  
ISLALRSHMSKAPSNTFHPQDFSDVISFILYGNSHRTGKDNWLERLFYSCQRLDKRDQST  
IPRNLKTDVAVLWQWAIWEAAQFTVLSKLRTPLGRAQDTFQTIEGIIRSLAAHTLNPDDQ  
VSQWTTADNDEGHGNNQLRLVLLQYLENLEKLMYAYEGCANALTSPPKVIRTFYTNR  
QTCQDWLTRIRLSIMRVGLLAGQPAVTVRHGFDLLTEMKTTSLSQGNELEVTTIMMVVEAL  
CELHCPEAIQGI VAWSSSIVGNLLWINSVAQQAEGRFKASVEYQEHLCAMTGVDCCIS  
SFDKSVLTLANAGRSASPKHSLNGESRKTVLSKPTDSSPEVINYLGNKACECYISIAW  
AAVQEWQNAIHDLKKSTSSTSLNLKADFNYIKSLSSFESGKFVECTEQLELLPGENINLL  
AGGSKEKIDMKKLLPNMLSPDPRELQKSEIYVQLLRSSVCLATALNPIEQDQKQWQSITEV  
VKYLKQTSRIAIGPLRLSTLTVSQSLPVLSTLQLYCSSALENTVSNRLSTEDCLIPLFSE  
ALRCKQHDPVPMQALRYTMYQNQLLEKIKEQTVPIRSHLMELGLTAAKFARKRGNVSL  
ATRLAQCEVQLGKTTTAQDLVQHFKKLSTQGQVDEKWPGLDIEKTKLLYTAGQSTHA  
MEMLSSCAISFCKSVKAEYAVAKSILTLAKWIAEWKEISGQLKQVYRAHQHQNFTGLST



LSKNILTIELPSVNTMEEYPRIESESTVHIGVGEPDFILGQLYHLSSVQAPEVAKSWA  
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AGIQDEEDITLQITESEDNEEDMDVDIWRQLISSCPWLSELDSEATEGVIKVRKVVDRI  
FSLYKLSCSAYFTFLKLNAGQIPLDEDDPRLHLSHRVEQSTDDMIVMATLRLLRLLVKHA  
GELRQYLEHGLETTPAPWRGIIPQLFSRLNHPEVYVRQSI CNLLCRVAQDSPHLILYPA  
IVGTISLSSESQASGNKFSTAIPTLLGNIQGEELLVSECEGGSPASQDSNKDEPKSGLN  
EDQAMMQDCYSKIVDKLSSANPTMVLQVQMLVAELRRVTVLWDELWLGVLQQHMYVLRR  
IQQLEDEVKRVQNNNTLRKEEKIATMREKHTALMKPIVFALEHVSITAAPAETPHEKWF  
QDNYGDAIENALEKLKTPLNPAKPGSSWIPFKEIMLSLQQRQAQRASYILRLEEISPWLA  
AMTNTIEIALPGEVSARDTVTIHVSOGTITILPTKTKPKKLLFLGSDGKSYPLFKGLEDL  
HLDERIMQFLSIVNTMFATINRQETPRFHARHYSVTPLGTRSGLIQWVDGATPLFGLYKR  
WQCREAALQAQKAQDSYQTPQNPGIVPRPSELYYSKIGPALKTVGLSLDVSRRDWPLHVM  
KAVLEELMEATPPNLLAKELWSSCTTPDEWWRVTQSYARSTAVMSMGYIIGLDRHLDN  
VLIDMTTGEVVHIDYVNCFEKGKSLRVPEKVPFRMTQNIETALGVTGVEGVFRLSCEQVL  
HIMRRGRETLLTLEAFVYDPLVDWTAGGEAGFAGAVYGGGQQAESKQSKREMERETR  
SLFSSRVAEIKVNWFKNRDEMLVVLPKLDGSLDEYLSLQEQLTDVEKLQGKLEEFLE  
GAEGVDHPSHTLQHRYSHTQLQTQQRQAVQEAIVKLNFEFEQWITHYQAAFNNLEATQLA  
SLLQEISTQMDLGPPSYVPATAFLQNAQAHLISQCEQLEGEVGALLQQRSSVLRGCLQ  
LHHYATVALQYPKAIQKHRIEQWKTWMEELICNTTVERCQELYRKYEMQYAPQPPPTVC  
QFITATEMTLQRYAADINSRLIRQVERLKQEAIVTPVPCEDQLKEIERCIKVFLHENGEEG  
SLSLASVIIISALCTLTRNLMMEGAASSAGEQLVDLTSRDGAWFLEELCSMSGNVTCVLQ  
LLKQCHLVPQDLIPNPMEASETVHLANGVYTSLQELNSNFRQIIFPEALRCLMKGEYTL  
ESMLHELDGLIEQTTDGVPLQTLVESLQAYLRNAAMGLEEETHAHYIDVARLLHAQYGEL  
IQPRNGSVDETPKMSAGQMLLVAFDGMFAQVETAFSLLVEKLNKMEIPIAWRKIDIIREA  
RSTQVNFDDDNHRQVLEEIFFLKRLQTIKEFFRLCGTFSKTSGSSSLEDQNTVNGPVQ  
IVNVKTLFRNSCFSEDQMAKPIKAFTADFVRQLLIGLPNQALGLTLCFSISALGVDIIAQ  
VEAKDFGAESKVSVDLCKKAVEHNIQIGKFSQLVMNRATVLASSYDTAWKKHDLVRRLE  
TSISSCKTSLQRVQLHIAMFQWQHEDLLINRPQAMSVTPPPRSAILTSMKKKLHTLSQIE  
TSIATVQEKLAALESSIEQRLKWAGGANPALAPVLQDFEATIAERRNLVLKESQRASQVT  
FLCSNIHFESLRTRTAEALNLDAALFELIKRCQQMCSFASQFNSSVSELELRLLRVDT  
GLEHPIGSSEWLLSAHKQLTQDMSTQRAIQTEKEQQIETVCETIQNLVDNIKTVLTGHN  
QLGDVKHLLKAMAKDEEAALADGEDVPYENSVRQFLGEYKSWQDNIQTVLFTLVQAMQV  
RSQEHVEMLQEITPTLKELKTQSQSIYNNLVSFASPLVTDATNECSSPTSSATYQPSFAA  
AVRSNTGQKTQPDVMSQNARKLIQKNLATSADTPPSTVPGTGKSVACSPKKAVERDPKTGK  
AVQERNYSYAVSVWKRVKAKLEGRDVPNRRMSVAEQVDYVIKEATNLDNLAQLYEGWTAW  
V

>sp|Q92540|SMG7\_HUMAN Protein SMG7 OS=Homo sapiens GN=SMG7 PE=1 SV=2  
MSLSAQYLRQAQEVKADMTDSKLGPAEVTWTSRQALQDLYQKMLVTDLEYALDKKVEQDL  
WNHAFKNQITTLQGGAKNRPNRSEVQANLSLFLEAASGFYTQLLQELCTVFNVDLPCR  
VKSSQLGIISNKQHTSAIVKPQSSSCSYICQHCLVHLGDIARYRNQTSQAESYYRHAAQ  
LVPSNGQPYNQLAILASSKGDHLTTIFYYCRSIAVKFPFPAASTNLQKALSKALESRDEV  
KTKWGVSDFIKAFIKFHGHVYLSKSLEKLSPLREKLEEQFKRLLFQKAFNSQQLVHVTVI  
NLFQLHHLRDFSNETEQHTYSQDEQLCWTQLLALFMSFLGILCKCPLQNESQEESYNAYP  
LPAVKVSMDWLRRLRPVQEAIVDERQYIWPWLISLLNSFHPHEEDLSSISATPLPEEFE

LQGFLALRPSFRNLDFSQGHGKITGDKGQRRIRQQRLISIGKWIADNPRLIQCENEV  
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EKPVVTFKENIKTREVNRDQGRSFPPKEVRRDYSKGITVTKNDGKKDNNKRKTETKKCTL  
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RPGFPPPTYVIPPVAFSMGSGYTFPAGVSVPGTFLQPTAHSPAGNQVQAGKQSHIPYSQ  
QRPSGPGPMNQGPQQSQPPSQPLTSLPAQPTAQSTSQLQVQALTQQQQSPTKAVPALGK  
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QQQPLEKKMKPFPMEPYNHNPSEVKVPEFYWDSSYSMADNRSVMAQQANIDRRGKRSPGV  
FRPEQDPVPRMPFEKSLLEKPSSELSHSSSFLSLTGFSLNQERYPNNSMFNEVYGNLTS  
SSKAELSPSMAPQETSLYSLFEGTPWSPSLPASSDHSTPASQSPHSSNPSSLPSSPPTHN  
HNSVPFSNFGPIGTPDNDRRTADRWKTDKPAMGGFGIDYLSATSSSESSWHQASTPSGT  
WTGHGSPMEDSSAVLMESLKSISWSSMMHPGPSALEQLLMQKQKQQRGQGTMNPPH

>sp|Q99835|SMO\_HUMAN Smoothed homolog OS=Homo sapiens GN=SMO PE=1 SV=1

MAAAPARGPELPLGLLLLLLLGDPGRGAASSGNATGPGPRSAGGSARRSAAVTGPPPP  
LSHCGRAAPCEPLRYNVLGSLVPYGATSTLLAGSDSQEEAHGKLVLSGLRNAPRCWA  
VIQPLLCAYMPKCENDRVLPSTLCQATRGPCAIVERERGWPDFLRCTPDRFPEGCTN  
EVQNIKFNSGQCEVPLVRTDNPKSWYEDVEGCGIQCQNPLFTEAEHQDMHSYIAAFGAV  
TGLCTLFTLATFVADWRNSNRYPAVILFYVNACFFVGSIGWLAQFMDGARREIVCRADGT  
MRLGEPTSNETLSCVIFVIVYYALMAGVVWFVVLTYAWHTSFKALGTTYQPLSGKTSYF  
HLLTWSLFPVLTVAIILAVAQVDGDSVSGICFVGKYNRYRAGFVLAPIGLVLIVGGYFLI  
RGVMTLFSIKSNHPGLLSEKAASKINETMLRLGIFGLAFGFVLITFSCHFYDFFNQAEW  
ERSFRDYVLCQANVTIGLPTKQPIPDCEIKNRPSLLVEKINLFAMFGTGIAMSTWVWTKA  
TLLIWRRTWCRLTGQSDDEPKRIKSKMIAKAFSKRHELLQNPQGELSFSMHTVSHDGPV  
AGLAFDLNEPSADVSSAWAQHVTKMVARRGAILPQDISVTPVATPVPPEEQANLWLVEAE  
ISPQLKRLGRKKRRRKRKKEVCPLAPPELHPPAPAPSTIPRLPQLPRQKCLVAAGAWG  
AGDSCRQGAWTLVSNPFCPEPSPPQDPFLPSAPAPVAWAHGRRQGLPIHSRTNLMDEL  
MDADSDF

>sp|Q8NHU3|SMS2\_HUMAN Phosphatidylcholine:ceramide cholinephosphotransferase 2 OS=Homo sapiens GN=SGMS2 PE=1 SV=1

MDIETAKLEEHLNQPSDPTNTYARPAEPVEEENKNGNGPKSLSSGLRKGTKKYPDYI  
QIAMPTESRNKFPLEWWTGIAFIYAVFNLVLTVMITVHERVPPKELSPPLPKFFDY  
IDRVKWAFSVSEINGIILVGLWITQWFLRYKSIVGRRFCFIIGTLYLYRCITMYVTTL  
VPGMHFQCAPKLNQDSQAKVQRIILRLISGGGLSITGSHILCGDFLFGHTVTLTLTYLFI  
KEYSPRHFWYHLICWLLSAAGIICILVAHEHYTIDVIAYYITTRLFWYHSMANEKNL  
KVSSQTNFLSRAWWFPIFYFFEKNVQGSIPCCFSWPLSWPPGCFKSSCKKYSRVQKIGED  
NEKST

>sp|Q2TAY7|SMU1\_HUMAN WD40 repeat-containing protein SMU1 OS=Homo sapiens GN=SMU1 PE=1 SV=2

MSIEIESSDVIRLIMQYLKENS LHRALATLQEETTVSLNTVDSIESFVADINSGHWDTVL  
QAIQSLKLPDKTLIDLYEQVLELIELRELGAARSLLRQTDPMIMLKQTQPERYIHLENL  
LARSYFDPREAYPDGSSKEKRAAIAQALAGEVSVVPPSRLMALLGQALKWQQHQGLLPP  
GMTIDLFRGKAAVKDVEEEKFPTQLSRHIKFGQKSHVECARFSPDGQYLVTGSVDGFIEV  
WNFTTGKIRKDLKYQAQDNFMMMDAVLCMCFSRDTEMLATGAQDGKIKVWKIQSGQCLR  
RFERAHSKGVTCLSFSKDSSQILSASFQDQIRIHGLKSGKTLKEFRGHSSFVNEATFTQD

GHYIISASSDGTVKIWNMKTTECSNTFKSLGSTAGTDITVNSVILLPKNPEHFVVCNRSN  
TVVIMNMQGQIVRSFSSGKREGGDFVCCALSPRGEWIYCVGEDFVLYCFSTVTGKLERTL  
TVHEKDVIGIAHHPHQNLATYSEDGLLKLWKP

>sp|Q9HCE7|SMUF1\_HUMAN E3 ubiquitin-protein ligase SMURF1 OS=Homo sapiens GN=SMURF1 PE=1  
SV=2

MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFRLLPDPFAKIVVDGSGQCHSTDTVKNLDP  
KWNQHYDLYVGKTDSTITSVWNHKKIHKKQGAGFLGCVRLLSNAISRLKDTGYQRLDLCK  
LNPSDTDAVRGQIVVSLQTRDRIGTGGSVVDCRGLLENEGTVYEDSGPGRPLSCFMEEPA  
PYTDSTGAAAGGGNCRFVESPSQDQRLQAQRLRNPDVRGSLQTPQNRPHGHQSPPEGY  
EQRTTVQGQVYFLHTQTGVSTWHDPRIPSPSGTIPGGDAAFLYEFLQGHSTSEPRDLNSV  
NCDELGPLPPGWEVRSTVSGRIYFVDHNNRTTQFTDPRLHHIMNHQCQLKEPSQPLPLPS  
EGSLEDEELPAQRYERDLVQKLKVLRLHLSLQPPQAGHCRIEVSREEIFEESYRQIMKMR  
PKDLKKRLMVKFRGEEGLDYGGVAREWLYLLCHEMLNPYYGLFQYSTDNIMYMLQINPDSS  
INPDHLSYFHFVGRIMGLAVFHGHYINGGFTVPFYKQLLGKPIQLSDLESVDPELHKS  
LVWILENDITPVLDTHTFCVEHNAFGRILQHELKPNGRNPVTEENKKEYVRLYVNWRFMRGI  
EAQFLALQKGFNELIPQHLLKPFQKELELIGGLDKIDLNDWKSNTLKHCVADSNIVR  
WFWQAVETFDERRARLLQFVTGSTRVPLQGFKALQGSGAAGPRLFTIHLIDANTDNL  
PKAHTCFNRIDIPPYESYEKLYEKLTAVEETCGFAVE

>sp|Q9NRG4|SMYD2\_HUMAN N-lysine methyltransferase SMYD2 OS=Homo sapiens GN=SMYD2 PE=1  
SV=2

MRAEGLGGLERFCSPGKGRGLRALQPFQVGDLLFSCPAYAYVLTVNERGNHCEYCFTRKE  
GLSKCGRCKQAFYCNVECQKEDWPMHKLECSPMVVFGENWNPSETVRLTARILAKQKIHP  
ERTPSEKLLAVKEFESHLDKLDNEKKDLIQSDIAALHHFYSKHLGFPDNDLVLFAQVN  
CNGFTIEDEELSHLGSALFPDVALMNHSCCPNVIVTYKGTAEVRVAVQEIKPGEEVFTSY  
IDLLYPTEDRNDRLRDSYFFTCECQECTTKDKDAKVEIRKLSDPKAEAIRDMVRYARN  
VIEEFRRAKHYSPELLEICELSQEKMSVFEEDSNVYMLHMMYQAMGVCLYMQDWEGAL  
QYGQKIIKPYSKHYPLYSNLVASMWLKLGRLYMGLEHKAAGEKALKKAIAIMEVAHGKDH  
PYISEIKQEIESH

>sp|A8MWL6|SNG2L\_HUMAN Putative synaptogyrin-2 like protein OS=Homo sapiens PE=5 SV=1

MESGAYGVAEAGGSFDLRPFLTQPQVVARALCLVFALIVFSCIYEGEGYSNTHKSKQMYCV  
FHNEDACRYGSAIGVLAFLASAFLLVVDAYFPQISNATDRKYLVIQDGLLSALWTFWV  
GFCFLTQWAVTDPEDVLVGADSAARAITSFFSIFSWGVLASLTQRYKAGVDDFIQNY  
VDPSPDPNTAYASYPGASVDNYQPPFTQNAETTEGYQPPPVY

>sp|O43760|SNG2\_HUMAN Synaptogyrin-2 OS=Homo sapiens GN=SYNGR2 PE=1 SV=1

MESGAYGAAKAGGSFDLRRLTQPQVVARAVCLVFALIVFSCIYEGEGYSNAHESKQMYCV  
FNRNEDACRYGSAIGVLAFLASAFLLVVDAYFPQISNATDRKYLVIQDGLLSALWTFWV  
VGFCFLTQWAVTNPKDVLVGADSVRAAITSFFSIFSWGVLASLTQRYKAGVDDFIQNY  
YVDPTDPNTAYASYPGASVDNYQPPFTQNAETTEGYQPPPVY

>sp|O43761|SNG3\_HUMAN Synaptogyrin-3 OS=Homo sapiens GN=SYNGR3 PE=1 SV=2

MEGASFGAGRAGAALDPVSFARRPQTLLRVASWVFSIAVFGPIVNEGYVNTDSGPRLRCV  
FNGNAGACRFVALGLGAFLACAAFLLDVRFQQLSSVRDRRRRAVLDDLGFSGLSWFLWF  
VGFCFLTQWQRTAPGPATTQAGDAARAAIAFSFFSILSWVALTVKALQRFRLGTDMSLF  
ATEQLSTGASQAYPGYPVGSVEGTETYSPPFTTETLDTSPKGYQVPAY

>sp|O75324|SNN\_HUMAN Stannin OS=Homo sapiens GN=SNN PE=1 SV=1

MSIMDHSPPTGVVTIVILIAIAALGALILGCWCYLRLQRISQSEDEESIVGDGETKEPF  
LLVQYSAKGPCVERKAKLMTPNGPEVHG

>sp|000161|SNP23\_HUMAN Synaptosomal-associated protein 23 OS=Homo sapiens GN=SNAP23 PE=1  
SV=1

MDNLSSEEIQQRAHQITDESLESTRRILGLAIESQDAGIKTITMLDEQKEQLNRIEEGLD  
QINKDMRETEKTLTELNKCCGLCVCPCNRTKNFESGKAYKTTWGDGGENSPCNVVSQKPG  
PVTNGQLQQPTTGAASGGYIKRITNDAREDEMEENLTQVGSILGNLKDMLNIGNEIDAQ  
NPQIKRITDKADTNDRIDIANARAKKLIDS

>sp|P60880|SNP25\_HUMAN Synaptosomal-associated protein 25 OS=Homo sapiens GN=SNAP25 PE=1  
SV=1

MAEDADMRNEEEMQRRADQLADESLESTRRMLQLVEESKDAGIRTLVMLDEQGEQLERI  
EEGMDQINKDMKEAEKNLTDLGKFCGLCVCPCNKLSSDAYKKAAGNNQDGVVASQPARV  
VDEREQMAISGGFIRRVTDARENEMDENLEQVSGIIGNLRHMALDMGNEIDTQNRQIDR  
IMEKADSNKTRIDEANQRATKMLGSG

>sp|Q16533|SNPC1\_HUMAN snRNA-activating protein complex subunit 1 OS=Homo sapiens  
GN=SNAPC1 PE=1 SV=1

MGTPPGLQTDCEALLSRFQETDSVRFEDFTELWRNMKFGTIFCGMRNLEKNMFTKEALA  
LAWRYFLPPYTFQIRVGALYLLYGLYNTQLCQPKQKIRVALKDWEVLKFQQDLVNAQHF  
DAAYIFRKLRLDRAHFHTAMPKLLSYRMKKKIHRAEVTEEFKDPSDRVMKLI TSDVLEEM  
LNVHDHYQNMKHVISVDKSKPDKALSLIKDDFFDNINIVLEHQQWHKDRKNPSLSKSTN  
DGEEKMEGNSQETERCERAESLAKIKSKAFSVVIQASKSRRHRQVKLDSSSDSASGQGQ  
VKATRKKEKKERLKPAGRKMSLRNKGNVQNIHKEDKPLSLSPVITEEEENESLSGTEFT  
ASKKRRKH

>sp|Q9BV90|SNR25\_HUMAN U11/U12 small nuclear ribonucleoprotein 25 kDa protein OS=Homo  
sapiens GN=SNRNP25 PE=1 SV=1

MDVFQEGLAMVVQDPLLCDLP IQVTLEEVSQIALEYGQAMTVRVCKMDGEVMPV VVVQS  
ATVLDLKKAIQRYVQLKQEREGGIQHISWSYVWRTYHLTSAGEKLTEDRKKLRDYGIRNR  
DEVSFIKKLRQK

>sp|Q96DI7|SNR40\_HUMAN U5 small nuclear ribonucleoprotein 40 kDa protein OS=Homo sapiens  
GN=SNRNP40 PE=1 SV=1

MIEQQKRKGPELPLVPVQRHELLL GAGSGPGAGQQQATPGALLQAGPPRCSSLQAPIM  
LLSGHEGEVYCKFHPNGSTLASAGFDRLLWNVYGDCDNYATLKGHSGAVMELHYNTD  
GSM LFSASTDKTVAVW DSETGERVKRLKGHTSFVN SCYPARRGPQLVCTGSDDGTVKLWD  
IRKKA AIQTFQNTYQVLAVTFNDTSDQIIISGGIDNDIKVWDLRQNKLT YTMRGHADSVTG  
LSLSSEGSYLLSNAMDNTVRVWDVRPFAPKERCVKIFQGNVHNFEKNLLRCSWSPDGSKI  
AAGSADRFVYVWDTTSRRILYKLP GHAGSINEVAFHPDEPIIISASSDKRLYMGEIQ

>sp|A6NMZ2|SNTAN\_HUMAN Sentan OS=Homo sapiens GN=SNTN PE=2 SV=1  
MGGCMHSTQDKSLHLEGDPNPSAAPTSTCAPRKMPKRISISKQLASVKALRKCDLEKAI  
ATTALIFRNSSDSGKLEKAI AKDLLQTQFRNFAEGQETPKPYREILSELDEHTENKLDF  
EDFMILLLSITVMSDLLQ NIRNVKIMK

>sp|Q9Y5W9|SNX11\_HUMAN Sorting nexin-11 OS=Homo sapiens GN=SNX11 PE=1 SV=2

MGFWCRMSENQEVEVITVRVQDPRVQNEGSWNSYVDYKIFLHTNSKAFTAKTSCVRRRY  
REFVWLRLKQLQRNAGLVVPELPGKSTFFGT SDEFIEKRRQGLQHFLEKVLQSVVLLSDS  
QLHLFLQSQLSVPEIEACVQGRSTMTVSDAILRYAMSNCGWAQEERQSSSHLAKGDQPKS

CCFLPRSGRRSSPPPPSEEKDHLEVWAPVVDSEVPSLESPTLPPLSSPLCCDFGRPKEG  
TSTLQSVRRRAVGGDHAVPLDPGQLETVLEK

>sp|Q9Y5W7|SNX14\_HUMAN Sorting nexin-14 OS=Homo sapiens GN=SNX14 PE=1 SV=3

MVPWVRTMGQKLKQRLRLDVGREICRQYPLFCFLLCLSAASLLLNRYIHILMIFWSFVA  
GVVTFYCSLGPDSLLPNIFTIKYKPKQLGLQELFPQGHSCAVCGKVCKRHRPSLLEN  
YQPWLDLKISSKVDASLSEVLELVLENFVYPWYRDVTDDES FVDELRI TLRF FASVLIRR  
IHKVDIPSIITKLLKAAMKHIEIVKARQKVKNTEFLQQAAL E EYGP ELHVALRSRRDE  
LHYLRKLT ELLFPYILPPKATDCRSLTLLIREILSGSVFLPSLDFLADPDTVNHLIIIFI  
DDSPPEKATEPASPLVPFLQKFAEPRNKKPSVLKLELKQIREQQDLLFRFMNFKQEGAV  
HVLQFCLTVEEFNDRILRPELSNDEM LSLHEELQKIYKTYCLDESIDKIRFDPFIVEETQ  
RIAEGPYIDVVKLQTMRCLEAYEHVLSLLENVFTPMFCHSDEYFRQLLRGAESPTRNSK  
LNRGSLSLDDFRNTQKRGE SFGISRIGSKIKG VFKSTTMEGAMLPNYGVAEGEDDFIEEG  
IVVMEDDSPVEAVSTPNTPRNLAAWKISIPYVDFEDPSSERKEKKERIPVFCIDVERND  
RRAVGHEPEHWSVYRRYLEFYVLESKLTEFHGAFPDAQLPSKRIIGPKNYEFLKSKREEF  
QEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLGKI IKSVP GKLMKEKGQH  
LEPFIMNFINSCESPKPKSRPELTILSPTSENNKKLFNDLFKNNANRAENTERKQNQNY  
FMEVMTVEGVYDYL MYVGRVVFQVPDWLHHLLMGTRILFKNTLEMYTDYYLQCKLEQLFQ  
EHRLVSLITLLRDAIFCENTEPRSLQDKQKGAKQTFEEMMNYIPDLLVKCIGEETKYESI  
RL LFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

>sp|Q15036|SNX17\_HUMAN Sorting nexin-17 OS=Homo sapiens GN=SNX17 PE=1 SV=1

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PKKLFSLTPAEVEQRREQL EKYMQAVRQDPLLGSSETFNSFLRRAQQTQQVPTEEVSLE  
VLLSNGQKVLVNVLTS DQTEDVLEA AAKLDLPDDLIGYFSLFLVREKEDGAFS FVRKLQ  
EFELPYVSVTSLRSQEYKIVLRKSYWDSAYDDV MENRVGLNLLYAQTVSDIERGWILVT  
KEQHRQLKSLQEYVSKKEFLRLAQTLRHYGYLRFDACVADFPEKDCPVVVSAGNSELSLQ  
LRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGSTSSPGRGRGEVRLELA FEYLSKDR LQ  
WVTITSPQAIMMSICLQSMVDELMVKKSGSIRKMLRRRVGGTLRRSDSQAVKSPPLLE  
SPDATRESMVKLSKLSAVSLRGIGSPSTDASASDVHGNFAFEGIGDEDL

>sp|Q9Y343|SNX24\_HUMAN Sorting nexin-24 OS=Homo sapiens GN=SNX24 PE=1 SV=1

MEVYIPSFRIEESDLERGYTVFKIEVLMNGRKH FVEKRYSEFHALHKKLKKCIKTPEIPS  
KHVRNWVPKVLEQRRQGLETYLQAVILENEELPKLFLDFLNVRHLPSLPKAESCGSFDET  
ESEESSKLSHQPVLLFLRDPYVLPAA SDFPNV VIEGVLHGIFYPHLQPR

>sp|Q9H3E2|SNX25\_HUMAN Sorting nexin-25 OS=Homo sapiens GN=SNX25 PE=1 SV=2

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NDVVRTLLTHFCDLKAANARHEEQRP FVLHACLRNSDDEV RFLQTCSRVLVFCLLPSKD  
VQSLSLRIMLAELT TKVLKPVVELLSNPDIYINQMLLAQLAYREQMNEHHKRAYTYAPSY  
EDFIKLINSNSDVEFLKQLRYQIVVEIIQATTISSFPQLKRHKGKETAAMKADLLRARNM  
KRYINQLTVAKKQCEKRIRILGGPAYDQQEDGALDEGEGPQS QKILQFEDILANTFYREH  
FGMYMERMDKRALISFWESVEHLKNANKNEIPQLVGEIYQNFFVESKEISVEKSLYKETQ  
QCLVGNGGIEVFYKIQEDVYETLKDRIYPSFIVSDLYEKL LIKEEEKHASQMISNKDEMG  
PRDEAGEEAVDDGTNQINEQASFAVNKLRELNEKLEYKRQALNSIQNAPKPKKIVSKLK  
DEIILIEKERTDLQLHMARTDWWCENLGMWKASITSGEVTEENGEQLPCYFVMVSLQEVG  
GVETKNWTVPRRLSEFQNLHRKLSECVPSLKKVQLPSLSKLPFKSIDQKFMEKSKNQNLNK  
FLQNLLSDERLCQSEALYAF LSPSPDYLVKVIDVQGKNSFSLSSFLERLPRDFFSHQEEE

TEEDSDLSDYGDDVDGRKDALAEPCFMLIGEIFELRGMFKWVRRTLIALVQVTFGRITNK  
QIRDTVSWIFSEQMLVYYINIFRDAFWPNGKLAPPTTIRSKEQSQETKQRAQQKLENIP  
DMLQSLVGQQNARHGIKIFNALQETRANKHLLYALMELLIELCPELRVHLDQLKAGQV

>sp|Q96L92|SNX27\_HUMAN Sorting nexin-27 OS=Homo sapiens GN=SNX27 PE=1 SV=2

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VSEGGQLRSINGELYAPLQHVSAPLPGGAADRAGVRKGDRILEVNHVNEGATHKQVVDL  
IRAGEKELILTVLSVPPHEADNLDPSDDSLGQSFYDYTEKQAVPISVPRYKHVEQNGEKF  
VVYNVYMAGRQLCSKRYREFAILHQNLKREFANFTFPRLPKWPFSLSEQQLDARRRGLE  
EYLEKVCSIRVIGESDIMQEFLSESDENYNGVSDVELRVALPDGTTVTVRVKKNSTTDQV  
YQAIAAKVGMDDSTTVNYFALFEVISHSFVRKLAPNEFPKLYIQNYTSAVPGTCLTIRKW  
LFTTEEEILLNDNLAVTYFFHQAVDDVKKGYIKAEKSYQLQKLYEQRKMVMYLNMLRT  
CEGYNEIIFPHCACDSRRKGHVITAISITHFKLHACTEELQLENQVIAFEWDEMQRWDTD  
EEGMAFCFEYARGEKKPRWVKIFTYPFNYMHECFERVFCELKWRKENIFQMARSQQRDVA  
T

>sp|O60749|SNX2\_HUMAN Sorting nexin-2 OS=Homo sapiens GN=SNX2 PE=1 SV=2

MAAEREPPPLGDGKPTDFEDLEDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGPK  
PTEVVLDDDDREDLFAEATEEVSLDSPEREPILSSESPAVTPVPTTLIAPRIESKMSA  
PVIFDRSREEIEEEANGDIFDIEIGVSDPEKVGDMNAYMAYRVTTKTSLSMFSKSEFSV  
KRRFSDFLGLHSLKASKYLHVGYIVPPAPEKSIVGMTKVKGKEDSSSTEFVEKRRAALE  
RYLQRTVKHPTLLQDPDLRQFLESSELPRAVNTQALSGAGILRMVNKAADAVNKMTIKMN  
ESDAWFEEKQQQFENLDQQLRKLHVSEALVCHRKELSANTAFAKSAAMLGNSDHTAL  
SRALSQLAEEVEEKIDQLHQEQAFADFYMFSSELLSDYIRLIAAVKGVFDHRMKCWQKWEDA  
QITLLKKREAEAKMMVANKPDKIQQAKNEIREWEAKVQQGERDFEQISKIRKEVGRFEK  
ERVKDFKTVIIKYLESLVQTQQQLIKYWEAFLPEAKAIA

>sp|O15524|SOCS1\_HUMAN Suppressor of cytokine signaling 1 OS=Homo sapiens GN=SOCS1 PE=1  
SV=1

MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRFRS  
HADYRRITRASALLDACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFALSVKMA  
SGPTSIRVHFQAGRFLDGSRESFDCLFELLEHYVAAPRRMLGAPLRQRRVRPLQELCRQ  
RIVATVGRENLARIPLNPLRDYLSFPFQI

>sp|P01241|SOMA\_HUMAN Somatotropin OS=Homo sapiens GN=GH1 PE=1 SV=2

MATGSRTSLLLAFLGLCLPWLQEGSAFTIPLSRLFDNAMLRAHRLHQLAFDITYQEFEEA  
YIPKEQKYSFLQNPQTSLCFSEIPTSPNREETQQKSNLELLRISLLLIQSWLEPVQFLR  
SVFANSLVYGASDSNVYDLLKDL EEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNHND  
ALLKNYGLLYCFRKMDKVETFLRIVQCRSVEGSCGF

>sp|P18583|SON\_HUMAN Protein SON OS=Homo sapiens GN=SON PE=1 SV=4

MATNIEQIFRSFVVSFKFREIQQELSSGRNEGQLNGETNTPIEGNQAGDAAASARSLPNEE  
IVQKIEEVLSGVLDTELRYKPDKEGSRKSRCSVQTDPTDEIPTKSKKKHKKHKKKKK  
KKKEKEKKYKRQPEESESKTKSHDDGNIDLESDFLKFDSEPSAVALPTRAFGPSETN  
ESPAVVLEPPVVSMEVSEPHILETLKPATKTAELSVVSTSVISEQSEQSVAVMPEPSMTK  
ILDSFAAAPVPTTTLVLKSSEPVTMSVEYQMKSVLKSVESTSPEPSKIMLVEPPVAKVL  
EPSETLVVSSETPTEVYPESTSTTMDFPESSAIEALRLPEQPVDPVSEIADSSMTRPQE  
LPPELPKTTALELQESSVASAMELPGPPATSMPELQGPVTPVLELPGPSATVPPELPGPL  
STPVPELPGPPATAVPELPGPSVTPVPQLSQELPGLPAPSMGLEPPQEVPEPPVMAQELP

GLPLVTA AVELPEQPAVTVAMELTEQPVTTTELEQPVGMTTVEHPGHPEVTTATGLLGQP  
EATMVLELPGQPVATTALELPGQPSVTGVPELPGPLSATRALELSGQPVATGALELPGPL  
MAAGALEFSGQSGAAGALELLGQPLATGVLELPGQPGAPELPGQPVATVALEISVQSVVT  
TSELSTMTVSQSLEVPSTTALESYNTVAQELPTTLVGESVTVGVDPMLAPESHILASNT  
METHILASNTMDSQMLASNTMDSQMLASNTMDSQMLASSTMDSQMLATSSMDSQMLATSS  
MDSQMLATSTMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATST  
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ERSMMSMPAERSMMSAYERSMMSAYERSMMSMPAERSMMSAYERSMMSAYERSMMSMPAD  
RSMMSMGADRSMMSYSAADRSMMSYSAADRSMMSYTAADRSMMSMAADSYTDSYTDY  
TEAYMVPPLPPEEPTMPPLPPEEPPMTPLPPEEPPEGPALPTEQSALTAENTWPTEVP  
SSPSEESVSQPEPPVSQSEISEPSAVPTDYSVSASDPSVLVSEAAVTVPEPPPPESSIT  
LTPVESAVVAEEHEVPERPVTMVSETPAMSAEPTVLASEPPVMSETAETFDMSRASGH  
VASEVSTLLVPAVTPVLAESILEPPAMAAPESSAMAVLESSAVTVLESSTVTVLESST  
VTVLEPSVVTVPEPPVAEPDYVTIPVPVVSALEPSVPVLEPAVSVLQPSMIVSEPSVSV  
QESTVTVSEPAVTVSEQTQVIPTEVAIESTPMILESSIMSSHVMKGINLSSGDQNLAPEI  
GMQEIALHSGEEPHAEHLKGFYESEHGINIDLNNHLIAKEMEHTVCAAGTSPVGE  
IGEEKILPTSETKQRTVLDITYGVSEADAGETLSSTGPFALP DATGTSGKIEFTTASTL  
SLVNKYDVDLSLTQDTEHDMVISTSPSGGSEADIEGPLPAKDIHLDLPSNNNLVSKDTE  
EPLPVKESDQTLAALLSPKESSGGEKEVPPPKETLPDSGF SANIEDINEADLVRPLLK  
DMERLTS LRAGIEGPLLASDVGRDRSAASPVVSSMPERASESSSEEKDDYEIFVKVDTH  
EKSKKNKNRDKGEKEKKRDSLSRSKRKSSEHKSRKRTSESRSRARKRSSKSKSHRSQ  
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RSRTPSRRSRSHTPSRRRRSRSGRRRSFSISPSRRSRTPSRRSRTPSRRSRTPSRRSRT  
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SERGRSPKRLTDLDKAQLEIAKANAAAMCAKAGVPLPPNLKPAPPPTIEEKVAKKSGGA  
TIEELTEKCKQIAQSKEDDDVIVNKP HVSD EEEEEPPFYHHPFKLSEPKPIFFNLNIAAA  
KPTPPKSQVTLTKEFPVSSGSQHRKKEADSVYGEWVPVEKNGEENKDDDNV FSSNLPSEP  
VDISTAMSERALA QKRLSENAFDLEAMSLNRAQERIDAWAQLNSIPGQFTGSTGVQVLT  
QEQLANTGAQAWIKKDQFLRAAPVTGGMGAVLMRKMGWREGEGLGKNKEGNKEPILVDFK  
TDRKGLVAVGERAQKRSNGFSAAMKDLSGKHPVSALMEICNKRRWQPPEFLLVHDSGPDH  
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>sp|Q9UPU3|SORC3\_HUMAN VPS10 domain-containing receptor SorCS3 OS=Homo sapiens GN=SORCS3  
PE=2 SV=2

MEAARTERPAGRPGAPLVRTGLLLLSTWVLAGEITWDATGGPGRPAAPASRPPALSPLS  
PRAVASQWPEELASARRA AVLGRRAGPELLPQQGGGRGGEMQVEAGGTSPAGERRGRGIP  
APAKLGGARRSRRAQPPITQERGD AWATAPADGSRGSRPLAKGSREEVKAPRAGGSAED  
LRLPSTSFALTGDSAHNQAMVHWSGHNSSVILILTKLYDFNLG SVTESLWRSTDYGTTY  
EKLNDKVGLKTVLSYLYVNPTNKRKIMLLSDPEMESSILISSDEGATYQKYRLTFYIQLS  
LFHPKQEDWVLAYS LDQKLYSSMDFGRRWQLMHERITPNRFYWSVAGLDKEADLVHMEVR  
TTDGYAHYLTCRIQECAETTRSGPFARSIDISSLVVQDEYIFIQVTTSGRASYYVSYRRE  
AFAQIKLPKYS LPKMDHII STDENQVFAAVQEWNQNDTYNLYISDTRGIYFTLAMENIKS  
SRGLMGNI I IELYE VAGIKGIFLANKKVDDQVKTYITYNKGRDWRLQAPD VDLRGSPVH

CLLPFCSLHLHLQSENPYSSGRISSEKETAPGLVVATGNIGPELSYTDIGVFISSDGGNT  
WRQIFDEEYNVWFLDWGGALVAMKHTPLPVRHLWVSFDEGHSDKYGFTSVPLFVDGALV  
EAGMETHIMTVFGHFSRSEWQLVKVDYKSIFSRHCTKEDYQTHLLNQGEPCVMGERKI  
FKKRKPGAQCALGRDHSGSVSEPCVCANWDFECDYGYERHGESQCVPAFWYNPASPSKD  
CSLGQSYLNSTGYRRIVSNCTDGLREKYTAKAQMCPCGKAPRGLHVTTDGRLVAEQGHN  
ATFIILMEEGDLQRTNIQLDFGDGIAVSYANFSPIEDGIKHVYKSAGIFQVTAYAENNLG  
SDTAVLFLHVVCPEHVHLRVPFVAIRNKEVNISAVVWPSQLGTLTYFWFGNSTKPLIT  
LDSSISFTFLAEGTDTITVQVAAGNALIQDTKEIAVHEYFQSQLLSFSPNLDYHNPDIPE  
WRKDIGNVIKRALVKVTSVPEDQILIAVFPGLPTSAEFLIPPKNLTERRKGNEDLEQI  
VETLFNALNQLNVQFELKPGVQVIVYVTQLTLAPLVDSSAGHSSAMLMLLSVVFVGLAV  
FLIYKFKRKIPWINIYAQVQHDKEQEMIGSVSQSENAPKITLSDFTEPEELLDKELDTRV  
IGGIATIANSESTKEIPNCTSV

>sp|P30626|SORCN\_HUMAN Sorcin OS=Homo sapiens GN=SRI PE=1 SV=1  
MAYPGHPGAGGGYYPGGYGGAPGPAFPGQTQDPLYGYFAAVAGQDGGIDADELQRCLTQ  
SGIAGGYKPFNLETCLRMVSMMLDRMSGTMGFNEFKELWAVLNGWRQHFISFDTDRSGTV  
DPQELQKALTMTMGFRLSPQAVNSIAKRYSTNGKITFDDYIACCVKLRLTDSFRRRDTAQ  
QGVVNFPPYDDFIQCVMSV

>sp|Q92673|SORL\_HUMAN Sortilin-related receptor OS=Homo sapiens GN=SORL1 PE=1 SV=2  
MATRSSRRESRLPFLFTLVALPPGALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRL  
WARGDARGASRADEKPLRRKRSAALQPEPIKVYGVVSLNDSHNQMVVHWAGEKSNVIVAL  
ARDSLALARPKSSDVVYSYDYGKSFKKISDKLNFGLGNRSEAVIAQFYHSPADNKRYIFA  
DAYAQYLWITFDFCNLTQGFSPFRAADLLHASKASNLLGFDRSHPNKQLWKSDDFGQT  
WIMIQEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFQSRNQEVILEEVRDF  
QLRDKYMFA TKVHLLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVF  
VCVSHSNRNTLYISEAEGLKFSLSLENVLYSPGGAGSDTLVRYFANEFPADFHRVEGL  
QGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPAF TGGEKINCELSQGCSLHLAQR  
LSQLNLQLRRMPLSKESAPGLIATGSGVGNLASKTNVYISSAGARWREALPGPHY  
TWGDHGGIITAIAGMETNELKYSTNEGETWKTIFIFSEKPVFVYGLLTEPGEKSTVFTIF  
GSNKENVHWSLILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATC  
FNGEDFDRPVVSNCSCTREDYECDFGFKMSEDLSEVCVPDPEFSGKSYSPVPCPVGS  
TYRRTRGRYRKISGDTCSGGDVEARLEGEVLPCPLAEENEFILYAVRKSIIYRYDLASGATE  
QLPLTGLRAAVALDFDYEHNCLYWSDLALDVIQRLCLNGSTGQEVINSGLTVEALAFE  
PLSQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLPQEGVMFWDWGDLP  
GIYRSNMDGSAAYHLVSEDVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNL  
PHPYAI AVFKNEIYWDWSQLSIFRASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNA  
CVPRPCSLCLPKANNRSRCRPEDVSSSVLPSGDL MCDPQGYQLKNNTCVKQENTCLR  
NQYRCSNGNCINSIWWCDFDND CGDMSDERNCPTTICDLDTQFRCQESGTCIPLSYKCDL  
EDDCGDNDSDESHCEMHQCRSDEYNCSGMCIRSSWVCDGDND CRDWSDEANCTAIYHTCE  
ASNFAQCRNGHCIPQRWACDGD TDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLR  
DCSDGSDEQHCEPLCTHFMDFVCKNRQQCLFHS MVCDGIIQCRDGSDEDAAFAGCSQDPE  
FHKVCDEF GFQCNGVCISLIWKCDGMDDCGDYSDEANCENPTEAPNCSRYFQFRCENGH  
CIPNRWKCDREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYYRCSSGTCVMDTWVCDG  
YRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRC DGHQDCQDG  
RDEANCPHSTLT TCM SREFQCEDGEACIVLSERCDGFLDCSDESDEKACSD ELTVYKVQN



LQWTADFGDVTLTWMPKKMPASCVYNVYRVVGESIWKTLETHSNKTNTVLKVLKPD  
TTYQVKVQVQCLSKAHTNDFVTLRTPEGLPDAPRNLQLSLPREAEGVIVGHWAPPITH  
GLIREYIVEYSRSGSKMWASQRAASNFTIKNLLVNTLYTVRVAAVTSRGIGNWSDSKSI  
TTIKGKVIPPPDIIHIDSYGENYLSFTLTMESDIKNGYVNLFWAFDTHKQERRTLNFRG  
SILSHKVGNLTAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVEC  
TWTGPRNVVYGIFYATSFLDLYRNPKSLTSLHNKTIVSKDEQYLFLVRVVVPYQGPSS  
DYVVVKMIPDSRLPPRHLHVHTGKTSVVIKWESPYDSPDQDLYAVAVKDLIRKTDRSY  
KVKSRNSTVEYTLNKLPEGGKYHIIVQLGNMSKDSSIKITTVSLSAPDALKIITENDHVL  
LFWKSLALKEKHFNESRGEIHMFD SAMNITAYLGNTTDNFFKISNLKMGHNYTFTVQAR  
CLFGNQICGEPAILLYDELGSGADASATQAARSTDVAAVVPIFLILLSLGVGFAILYT  
KHRLQSSFTAFANSHYSSRLGSAIFSSGDDLGEDDEDAPMITGFSDDVPMVIA

>sp|Q13435|SF3B2\_HUMAN Splicing factor 3B subunit 2 OS=Homo sapiens GN=SF3B2 PE=1 SV=2

MATEHPEPPKAELQLPPPPPGHYGAWAAQELQAKLAEIGAPIQGNREELVERLQSYTRQ  
TGIVLNRPVLRGEDGDKAAPPPMSAQLPGIPMPPLGLPPLQPPPPPPPPPPGLGLGFP  
MAHPPNLGPPPLRVGEPVALSEEERLKLAAQQAALLMQEERAKQQGDHSLKEHELLEQ  
QKRAAVLLEQERQQEIAKMGTPVPRPPQDMGQIGVRTPLGPRVAAPVGPVGPTPTVLP  
APVPRPRGPPPPGDENREMDDPSVGPKIPQALEKILQLKESRQEEMNSQEEEEEMETDA  
RSSLGQSASETEEDTVSVSKKEKNRKRNRKKKKKQQRVGRVSSSGDREKDSTRSRGS  
DSPAADVEIEYVTEEP EIEYEPNFIFFKRIFEAFKLTD DVKKEKEKEPEKLDKLENSA  
APK KKGFE EEHKDSDDDSSDDEQEKKEPEAPKLSKKKLRRMNRTVAELKQLVARPDV  
VEMHDV TAQDPKLLVHLKATRN SVVPRHWC FKRKYLGQKRGIEKPPFELPDFIKRTGI  
QEMREAL QEKEEQKTMKSKMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGD  
LYYEGKEFETR LKEKKPGDLSDELRI SLGMPVGPNAHKVPPPWLIAMQRYGPPPSY  
PNLKIPGLNSPIPES CSFGYHAGGWGKPPVDETGKPLYGDVFGTNAAEFQTKTEEEE  
IDRTPWGELEPSDEESSE EEEEESEDEKPDETGFI TPADSGLITPGGFSSVPAGME  
TPELIELRKKKIEEAMDGSET PQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSR  
KGPAPELQGV E VALAPEELELDP MAM TQKYEEHVREQQAQVEKEDFSDMVAEHA  
AKQKQKKRKAQPQDSRGGSKKYKEFKF

>sp|Q96NB2|SFXN2\_HUMAN Sideroflexin-2 OS=Homo sapiens GN=SFXN2 PE=1 SV=2

MEADLSGFNIDAPRWDQRTFLGRVKHFLNITDPRTVFVSERELDWAKVMVEKSRMGV  
VPP GTQVEQLLYAKKLYDSAFHPDTGEKMNVIGRMSFQLPGGMIITGFMLQFYRTMP  
AVIFWQ WVNQSFNALVNYTNRNAASPTSVRQMALSYFTATTTAVATAVGMNMLTKKAP  
PLVGRWVP FAAVAAANCVNIPMMRQQELIKGICVKDRNENEIGHSRRAAAIGITQVVIS  
RITMSAPGM ILLPVIMERLEKLHFMQKVVLHAPLQVMLSGCFLIFMVPVACGLFPQK  
CELPVSYLEPK LQDTIKAKYGELEPYVYFNKGL

>sp|000141|SGK1\_HUMAN Serine/threonine-protein kinase Sgk1 OS=Homo sapiens GN=SGK1 PE=1 SV=2

MTVKTEAAKGTLTYSRMGMVAILIAFMKQRRMGLNDFIQKIANN SYACKHPEVQSILKI  
SQPQEPELMNANPSPPSPSQINLGPSSNPHAKPSDFHFLKVGKSGFGKVLLARHKA  
E EVFYAVKVLQKAILKKKEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYIN  
GGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTD  
FGLCKENIEHNSTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFY  
SR NTAEMYDNILNKPLQLKPNITNSARHLLLEGLLQKDRTKRLGAKDDFMEIKSHVFF  
SLINW DDLINKKITPPFPNPVSGPNDLRHFDPEFTEEPVPNSIGKSPDSVLVTASVKEA  
AEAF LG FSYAPPTDSFL

>sp|Q9H299|SH3L3\_HUMAN SH3 domain-binding glutamic acid-rich-like protein 3 OS=Homo sapiens GN=SH3BGR13 PE=1 SV=1

MSGLRVYSTSVTGSREIKSQSEVTRILDGKRIQYQLVDISQDNALRDEMRLAGNPKAT  
PPQIVNGDQYCGDYELFVEAVEQNTLQEFLKLA

>sp|Q9NR45|SIAS\_HUMAN Sialic acid synthase OS=Homo sapiens GN=NANS PE=1 SV=2

MPLELELCPGRWVGQHPFCFIIAEIGQNHQGDLDVAKRMIRMAKECGADCAKFQKSELEF  
KFNRLALERPYTSKHSWGKTYGEHKRHLFESHQYRELQRYAAEEVGIFFTASGMDMAVE  
FLHELNVPPFKVSGDNTNFPYLEKTAKKGRPMVISSGMQSMQVYQIVKPLNPNFC  
FLQCTSAAYPLQPEDVNLRVISEYQKLPDIPIGYSGHETGIAISVAAVALGAKVLERHIT  
LDKTKWGS DSHASLEPGELAEVRSVRLVERALGSPTKQLLPCEMACNEKLGKSVVAVKVK  
IPEGTILTMDMLTVKVGEPKGYPPEDIFNLVGKKVLTVTEEDDTIMEELVDNHGKKIKS

>sp|Q9NXL6|SIDT1\_HUMAN SID1 transmembrane family member 1 OS=Homo sapiens GN=SIDT1 PE=2 SV=2

MRGCLRLALLCALPWLLLAASPGHPAKSPRQPPAPRRDPFDAARGADFDHVYSGVVNLST  
ENIYSFNYSQPDQVAVRVYVNSSSENLYPVLVVVRQKQEVLSWQVPLLQGLYQRSY  
NYQEVSRITLCPSEATNETGPLQLIFVDVASMAPLGAQYKLLVTKLKHFLRTNVAFHFT  
ASPSQPQYFLYKFPKDVDSVIKVVSEMAPSVSVQNMCPVYDLDNHVEFNGVYQSM  
TKKAAITLQKKDFPGEQFFVVFVVPEDYACGGSFFIQEKENQTWNLRKKNLEVTIVPS  
IKESVYVKSSLSFVIFLSFYLGCLLVGFVHYLRFRKSIDGSFGSNDGSGNMVASHPIA  
ASTPEGSNYGTIDSSSSSPGRQMSSSDGGPPGQSDTDSSVEESDFDTMPDIESDKNIIRT  
KMFLYLSDLRKRDRIVSKKYIYFVNIITIAVFYALPVIQLVITYQTVVNTGNQDICY  
YNFLCAHPLGVLSAFNNILSNLGHVLLGFLFLLIVLRRDILHRRALEAKDIFAVEYGIPK  
HFGLFYAMGIALMMEGVLSACYHVCNYSNFQFDTSMFYMIAGLCMLKLYQTRHPDINAS  
AYSAYASFAVIMVTVLGVVFGKNDVWFVIFSAIHVLASLALSTQIYYMGRFKIDLGIF  
RRAAMVFYTDICQCSRPLYMDRMVLLVGNLVNWSFALFGLIYRPRDFASYMLGIFICN  
LLLYLAFYIIMKLSSEKVLVPLFCIVATAVMWAAALYFFFQNLSSWEGTPAESREKNR  
ECILLDFDDHDIWHFLSATALFFSFLVLLTLDDDLDVVRDQIPVF

>sp|Q8NB9J|SIDT2\_HUMAN SID1 transmembrane family member 2 OS=Homo sapiens GN=SIDT2 PE=1 SV=2

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RTEGVRVSVNLNKQKGAPLLFVVRQKEAVVSFQVPLILRGMFQRKYLYQKVERTLCQPP  
TKNESEIQFFYVDVSTLSPVNTTYQLRVSRMDDFVLRTEGEQFSFNTTAAQPYFKYEFPE  
GVDSVIVKVTSNKAFPCSVISIQDVLCPVYDLNNAFIGMYQTMKKAAITVQRKDFPS  
NSFYVVVVVKTEDQACGGSLPFYPFAEDPVDQGHRQKTLVLSQAVTSEAYVSGMLFC  
LGIFLSFYLLTVLLACWENWRQKKKTLVAIDRACPESGHPRVLADSFPGSSPYEGYNYG  
SFENVSGSTDGLVDSAGTGDLSYGYQGRSFEPVGTTRPRVDSMSSVEEDDYDTLTDIDSDK  
NVIRTKQYLYVADLARKDKRVLRRKKYQIYFVNIATIAVFYALPVVQLVITYQTVVNTGN  
QDICYYNFLCAHPLGNLSAFNNILSNLGYILLGFLFLLIILQREINHNRRALLRNDLCALC  
CGIPKHFGLFYAMGTALMMEGLLSACYHVCNYSNFQFDTSMFYMIAGLCMLKLYQKRHP  
DINASAYSAYACLAIVIFFSVLGVVFGKNTAFWIVFSIIHIIATLLSTQLYYMGRWKL  
DSGIFRRILHVLYTDCIRQCSGPLYVDRMVLLVMGNVINWSLAAYGLIMRPNDFASYLLA  
IGICNLLLYAFYIIMKLSRGERIKLIPLLCIVCTSVVWGFALFFFQGLSTWQKTPAES  
REHNRDCILLDFDDHDIWHFLSSIAMFGSFLVLLTLDDDLDTVQRDKIYVF

>sp|Q96PQ1|SIG12\_HUMAN Sialic acid-binding Ig-like lectin 12 OS=Homo sapiens GN=SIGLEC12  
PE=2 SV=1

MLLLLLLLPPLLGRVGAKEQKDYLLTMQKSVTVQEGLCVSVLCFSYPQNGWTASDPVH  
GYWFRAGDHVSRNIPVATNNPARAVQEETDRFHLGDPQNKDCTLSIRDRTRES DAGTYV  
FCVERGNMKWNYKYDQLSVNVTASQDLLSRYLEVPESVTVQEGLCVSVPCSVLYPHYNW  
TASSPVYGSWFKEGADIPWDIPVATNTPSGKVQEDTHGRFLLGDPQTNNCSLSIRDARK  
GDSKYYFQVERGSRKWNYYDKLSVHVTALHMTPTSIPGTLESGHPRNLTCVWPWACE  
QGTPTITWMGASVSSLDPTITRSSMLSLIPQPQDHGTS LTCQVTLPGAGVTMTRAVRLN  
ISYPPQNL TMTVFQGDGTASTTLRNGSALSVLEGQSLHLVCAVDSNPPARLSWTWGS LTL  
SPSQSSNLGVLELPRVHVKDEGEFTCRAQNPLGSQHISLSLSLQNEYTGKMRPISGVTLG  
AFGGAGATALVFLYFCIIFVVRSCRKKSARPAVGVDGTMEDANAVRG SASQGPLIESP  
ADDSPPHHAPPALATPSPEEGEIQYASLSFHKARPQYPQEQAIGYEYSEINIPK

>sp|Q8N7X8|SIGL1\_HUMAN SIGLEC family-like protein 1 OS=Homo sapiens GN=SIGLECL1 PE=2 SV=1

MLPLLQLVPAKLLNSSCSLEKTLQCSCSFHGIPTPSVQWWMGVPVGVGDGMDGSLQVTST  
MLGPWANSTISLTEEPMEGMRLCEGKNQNGTHALSILLMSRKSSLAAQAFVKGLIQGAI  
YAGIVIALFLCLLPLIVKHIRKKQAKAAAIRAKSSKVRASQELEMSLKPEEPGKPVV  
ATFSESRILEKQDKRAS

>sp|Q9NYZ4|SIGL8\_HUMAN Sialic acid-binding Ig-like lectin 8 OS=Homo sapiens GN=SIGLEC8  
PE=1 SV=2

MLLLLLLLPLLWGTKMEGDRQYGDGYLLQVQELVTVQEGLCVHVPCSFSYPQDGWTDSD  
PVHGYWFRAGDRPYQDAPVATNNPDREVQAETQGRFQLLDIWSNDCSLSI RDARKRDKG  
SYFFRLERGSMKWSYKSQLNYKTKQLSVFVTALTHRPDILILGTLESGHSRNLTCV PWA  
CKQGTPPMISWIGASVSSPGPTTARSSVLTLTPKPQDHGTS LTCQVTLPGTGVT TTTSTVR  
LDVSYPPWNLTMTVFQGDATAS TALGNGSSLSVLEGQSLRLVCAVNSNPPARLSWTRGSL  
TLCPSRSSNPGLLELPRVHVRDEGEFTCRAQNAQGSQHISLSLSLQNEGTGTSRPVSQVT  
LAAVGGAGATALAFLSFCIIFIIVRSCRKKSARPAAGVDGTMEDAKAIRGSASQGPLTE  
SWKDG NPLKKPPAVAPSSGEEGELHYATLSFHKV KPDQPGQEATDSEYSEIKIHKRET  
AETQA CLRNNHPSSKEVRG

>sp|Q96EX1|SIM12\_HUMAN Small integral membrane protein 12 OS=Homo sapiens GN=SMIM12 PE=1  
SV=3

MWPVFVTVVVRTYAPYVTFPVAFVVGAVGYHLEWFIRGKDPQPVEEEKSISERREDRKLDE  
LLGKDHTQVVS LKDKLEFAPKAVLNRRNRP EKN

>sp|Q96DU3|SLAF6\_HUMAN SLAM family member 6 OS=Homo sapiens GN=SLAMF6 PE=1 SV=3

MLWLFQSLLFVFCFGPGNVVSQSSLTPLMVNGILGESVTLPLEFPAGEKVN FITWLFNET  
SLAFIVPHETKSPEIHVTNPKQGKRLNFTQSYSLQLSNLKMEDTGSYRAQISTKTS AKLS  
SYTLRILRQLRNIQVTNHSQLFQNMTCELHLTCSVEDADDNV SFRWEALGNTLSSQPNLT  
VSWDPRI SSEQDYTCIAENAVSNLSFSVSAQKLCEDVKIQYTDTKMILFMVSGICIVFGF  
IILLLLVLKR RDSLSLSTQRTQGPAESARNLEYVSVSPTNNTVYASVTHSNRETEI WTP  
RENTITIYSTINHSKESKPTFSRATALDNVV

>sp|Q9H6Q3|SLAP2\_HUMAN Src-like-adaptor 2 OS=Homo sapiens GN=SLA2 PE=1 SV=3

MGSLPSRRKSLPSPSLSSSVQGGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLT  
IVSEGDWWTVLSEVSGREYNIPSVHVAKVSHGWLYEGLSREKAEELLLPGNPGGAFLI  
RESQTRRGSYLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELA  
DDICCLLKEPCVLQRAGPLPGKDIPVTVQRTPLNWKELDSSLLFSEAATGEESLLSEG

LRESLSFYISLNDEAVSLDDA

>sp|Q14493|SLBP\_HUMAN Histone RNA hairpin-binding protein OS=Homo sapiens GN=SLBP PE=1 SV=1

MACRPRSPPRHQSRCDGASPPSPARWSLGRKRRADGRRWRPEDAEAEHRGAERRPESF  
TTPEGPKPRSRCSDWASAVEEDEMTRVKNEMARYKRKLLINDFGRERKSSSGSSDSKES  
MSTVPADFETDESVLRRQKQINYGKNTIAYDRIKEVPRHLRQPGIHPKTPNKFKKYSR  
RSWDQQIKLWKVALHFWDPPAEEGCDLQEIHPVDLESAESSSEPQTSSQDDFDVYSGTPT  
KVRHMDSQVEDEFDLEACLTEPLRDFSAMS

>sp|Q499Z3|SLNL1\_HUMAN Schlafen-like protein 1 OS=Homo sapiens GN=SLFNL1 PE=2 SV=2

MTPMKRSVQTVSEPFMESWGEESLPELPAEQSLTEYSDLEEAPSAHTLYVGHLPQFSV  
PVLACLLRDTLERLEMPVAREHIEVVRPRKAYALVQVTVHRDTLASLPWRLQTALAEHL  
ILKELAAAGKDLLLSEAQGPFSHREEKEEEEEDSGLSPGSPGSGVPLPTWPTHLPDRP  
QAQQLQSCQGRPSGVCSDSAIVHQQIVGKDQLFQGAFLGSETRNMEFKRGSGEYLSLAFK  
HHVRRYVCAFLNSEGGSLLVGVEDSGLVQGIRCSHRDEDRARLLVDSILQGFKPIFPDA  
YTLTFIPVISTSETSVPLKVIIRLTHTPKAQSQPQLYQTDQGEVFLRRDGSIQGPLSASA  
IQEWCRQRWLVELGKLEEKMKALMMEKEQLQQQLQQHGPVSCCTCVL

>sp|P55000|SLUR1\_HUMAN Secreted Ly-6/uPAR-related protein 1 OS=Homo sapiens GN=SLURP1 PE=1 SV=2

MASRWAVQLLLVAAWSMGCGEALKCYTCKEPMTSASCRTITRCKPEDTACMTTLVTVEAE  
YPFNQSPVVTSCSSSCVATDPDSIGAAHLIFCCFRDLCNSEL

>sp|P84022|SMAD3\_HUMAN Mothers against decapentaplegic homolog 3 OS=Homo sapiens GN=SMAD3 PE=1 SV=1

MSSILPFTPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNV  
NTKCITIPRSLDGRQLVSHRGLPHVIYCRWRWPDLSHHELRAMELCEFAFNMKKDEV  
CVNPYHYQRVETPVLPPVLVPRHTEIPAEPPLDDYSHSIPENTNFPAGIEPQSNIPETP  
PPGYLSEDGETSDHQMNSMDAGSPNLSNPMSPAHNNLDLQPVTYCEPAFWCSISYYEL  
NQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIGRGVRLYYIG  
GEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGF  
EAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGLQLWLDKVLTMGSPSIR  
CSSVS

>sp|043541|SMAD6\_HUMAN Mothers against decapentaplegic homolog 6 OS=Homo sapiens GN=SMAD6 PE=1 SV=2

MFRSKRSGLVRRLLWRSRVVPDREEGSGGGGGGDEGSLGSRAEPAPRAREGGGCGRSEV  
RPVAPRRPRDAVGQRGAQGAGRRRRRAGGPPRPMSEPGAGAGSSLLDVAEPGGPGWLPESD  
CETVTCCLFSERDAAGAPRDASDPLAGAALPAGGGRSREARSRLLLLEQELKTVTYSLL  
KRLKERSLDTLLEAVESRGVPGGCVLVPRADLRGGQPAPPQLLLGRLFRWPDQLHAVE  
LKPLCGCHSFAAAADGPTVCCNPYHFSRLCGPESPPPPYSRLSPRDEYKPLDLSDSLTSY  
TETEATNSLITAPGEFSDASMSPDATKPSHWCSVAYWEHRTRVGRLYAVYDQAVSIFYDL  
PQGSFGCLGQLNLEQRSESVRRTRSKI GFGILLSKEPDGVWAYNRGEHPIFVNSPTLDAP  
GGRALVVRKVPPGYSIKVDFERSGLQHAPEPDAADGPYPNSVRISFAKGWGPCYSRQF  
ITSCPCWLEILLNNPR

>sp|O15105|SMAD7\_HUMAN Mothers against decapentaplegic homolog 7 OS=Homo sapiens GN=SMAD7 PE=1 SV=1

MFRTKRSALVRRLLWRSRAPGGEDEEEGAGGGGGGGELRGEGATDSRAHGAGGGGPGRAGC

CLGKAVRGAKGHHHPHPAAGAGAAGGAADLKALTHSVLKKLKERQLELLLQAVESRGG  
TRTACLLLPGRLDCRLGPGAPAGAQAQPPSSYSPLLLCKVFRWPDLRHSSEVKRLCCC  
ESYGINPELVCCNPHLSRLCELESPPPPYSRYPMDFLKPTADCPDAVPSSAETGGTNY  
LAPGGLSDSQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQEPSLDIFYDLPQGNFCLGQ  
LNSDNKSQLVQKVRISKIGCGIQLTREVDGVWVYNRSSYPIFIKSATLDNPDSTLLVHKV  
FPGFSIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCYTRQFISSPCWLE  
VIFNSR

>sp|Q9NZC9|SMAL1\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily A-like protein 1 OS=Homo sapiens GN=SMARCA1 PE=1 SV=1

MSLPLTEEQRKKIEENRQKALARRAEKLLAEQHQTSSGTSIAGNPFQAKQGPSQNFPRE  
SCKPVSHGVIFKQQLSSSSNADQRPHDSHSFQAKGIWKKPEEMPTACPGHSPRSQMALT  
GISPPLAQSPPEVPKQQLLSYELGQGHAAQASPEIRFTPFANPTHKPLAKPKSSQETPAHS  
SGQPPRDAKLEAKTAKASPSGQNI SYIHSSSESVTPTREGRLQQKSGSSVQKGVNSQKKG  
CVRNGDRFQVLIGYNAELIAVFKTLPSKNYDPDTKTWNFSMNDYSALMKAASLPTVNLQ  
PLEWAYGSSESPSTSSEGGAGLPSAPLSFVKGRCLISRAYFEADISYSQDLIALFKQM  
DSRRYDVKTRKWSFLLEESKLIKVRCLPQVQLDPLPTTLTAFASQLKKTSLSLTPDV  
PEADLSEVDPKLVSNLMPFQRAGVNFAIAKGGRLLLADDMGLGKTIQAICIAAFYRKEWP  
LLVVVPSSVRFTWEQAFRLRWLPSLSPDCINVVTGKDRLTAGLINIVSFDLLSKLEKQLK  
TPFKVVIIDESHFLKNSRTARCRAAMPVLKVAKRVIILSGTPAMSRPAELYTQIIIAVKPT  
FFPQFHAFGLRYCDAKRMPGWWDYSGSSNLGELKLLLEEAVMLRRLKSDVLSQLPAKQRK  
IVVIAPGRINARTRAAALDAAKEMTTKDKTKQQKDALILFFNRTAEAKIPSVIEYILD  
LESGREKFLVFAHHKVVLDAITQELERKHVQHIRIDGSTSSAEREDLCQQFQLSERHAVA  
VLSITANMGLTFSSADLVVFAELFWNPGVLIQAEDRVHRIGQTSSVG IHYLVAKGTADD  
YLWPLIQEKIKVLAEAGLSETNFSEMTESTDYLYKDPKQKQIYDLFQKSFEKEGSDMELL  
EAAESFDPGSASGTSGSSSQNMGDTLDESSLTASPQKKRRFEFFDNWDSFTSPL

>sp|Q8WU79|SMAP2\_HUMAN Stromal membrane-associated protein 2 OS=Homo sapiens GN=SMAP2  
PE=1 SV=1

MTGKSVKDVDTRYQAVLANLLEEDNKFCAQCQSKGPRWASWNIGVFICIRCAGIHRNLGV  
HISRVKSVNLQWTQEIQCMQEMGNKANRLYEAYLPETFRRPQIDPAVEGFIRDKEYE  
KKYMDRSLDINAFRKEKDDKWKRGSEPVPEKKLEPVVFEKVKMPQKKEDPQLPRKSSPKS  
TAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLLASVPSPSSSGSRKVVGSMPTAGSAGS  
VPENLNLFPPEPGSKSEEIGKKQLSKDSILSLYGSQTPQMPTQAMFMAPAQMAYPTAYPSF  
PGVTTPNSIMGSMPPPVGMVAQPGASGMVAPMAMPAGYMGMQASMMGVPNGMMTTQQA  
GYMAGMAAMPQTVYGVQPAQQLQWNL TQMTQQMAGMNFYGANGMMNYGQSMSSGNGQAAN  
QTLSPQMWK

>sp|Q5VUG0|SMBT2\_HUMAN Scm-like with four MBT domains protein 2 OS=Homo sapiens GN=SFMBT2  
PE=1 SV=1

MESTLSASNMQDPSSSPLEKCLGSANGNDLDEEGSSLEETGFNWGEYLEETGASAAPH  
TSFKHVEISIQSNFQPGMKLEVANKNNPDYVWATIITTCGQLLLLRYCGYGEDRRADFW  
CDVVIADLHPVGWCTQNNKVLMPDAIKEKYTDWTEFLIRDLTGSR TAPANLLEGLRGG  
GPIDLITVGS LIELQDSQNPQYIWIVSVIENVGGRLRLRYVGLEDTESYDQWLFYLDYRL  
RPVWGCQENKYRMDPPSEIYPLKMASEWKCTLEKSLIDAAKFPLPMEVFKDHADLRSHFF  
TVGMKLETVMNCEPFYISPASVTKVFNNHFFQVTIDDLRPEPSKLSMLCHADSLGILPVQ  
WCLKNGVSLTPPKGYSGQDFDWADYHKQHGAQEAPPFCFRNTSFSRGFTKNMKLEAVNPR

NPGELCVASVSVKGRMLMWLHLEGLQTPVPEVIVDVESMDIFPVGWCEANSYPLTAPHKT  
VSQKKRKIAVVQPEKQLPPTVPVKKIPHDLCFLPHLDTTGTVNGKYCCPQLFINHRCFSG  
PYLNKGRIAELPQSVGPGKCVLVLKEVLSMIINAAYKPGRVLRELQLVEDPHWNFQEETL  
KAKYRGKTYRAVVKIVRTSDQVANFCRRVCAKLECCPNLFSVLISENCPENCSIHTTK  
YTYYYGKRKKISKPPIGESNPDSGHPKPARRRKRKRSIFVQKKRRSSAVDFTAGSGEESE  
EEDADAMDDDTASEETGSELRDDQTDTSAEVPSARPRRAVTLRSGSEPVRPPPERTRR  
GRGAPAASSAEEGECPPTKPEGTEDTKQEEEEERLVLESNPLEWTVTDVVRFIKLTDCAP  
LAKIFQEQQIDGQALLLLTLPTVQECMELKLGAIPKLCHEIRVKVAFYAQYAN

>sp|Q71RC9|SMIM5\_HUMAN Small integral membrane protein 5 OS=Homo sapiens GN=SMIM5 PE=4  
SV=2

MAATDFVQEMRAVGERLLLKLQRLPQAEPVEIVAFSVIILFTATVLLLLLIACSCCCTHC  
CCPERRGRKVQVQPTTP

>sp|Q92543|SNX19\_HUMAN Sorting nexin-19 OS=Homo sapiens GN=SNX19 PE=1 SV=2

MKTETVPPFQETPAGSSCHLNLLSSRKLMVAVGLLWLLVIHLLVNVWLLCLLSALLV  
LGGWLGSSLAGVASGRHLERFIPLATCPPCPEAERQLEREINRTIQMIIRDVLSWYRS  
VSQEPAFEEEMEAMKGLVQELRRRMSVMDSHAVAQSVLTLGCHLQSYIQAKEATAGKN  
GPVEPSHLWEAYCRATAPHPAVHSPSAEVTYTRGVNLLLQGLVPKPHLETRTGRHVVE  
LITCNVILPLISRLSDPDWIHLVLVGIFSKARDPAPCPASAPEQPSVPTSLPLIAEVEQL  
PEGRASPVAAVFLSYSEPEGSAGPSPEVEEGHEAVEGDLGGMCEERKVGNNSSHFLQPN  
VRGPLFLCEDSELESPLSELKETIMLTPGSFLSDRIQDALCALESSQALEPKDGEASE  
GAEAEEGPGTETETGLPVSTLNSCPEIHIDTADKEIEQGDVTASVTALLEGPEKTCPSRP  
SCLEKDLTNDVSSLDPTLPPVLLSSSPGPLSSATFSFEPLSSPDGPV I IQNLRITGTIT  
AREHSGTGFGPHYTYLTVKYETALDGENSSGLQQLAYHTVNRRYREFLNLQTRLEEKPDLR  
KFIKNVKGPKKLPDPLPGNMSDRVEARKSLLESFLKQLCAIPEIANSEEVQEFLALNT  
DARIAFVKKPFMVSRIDKMVSAIVDTLKTAFPRSEPQSPTEELSEAETESKPQTEGKKA  
SKSRLRFSSSKISPALSVTEAQDKILYCLQEGNVESETLSMSAMESFIEKQTKLLEMQPT  
KAPEKDPEQPPKGRVDSCVSDAAVPAQDPSNSDPGTETELADTALDLLLLLLTEQKWLC  
TENMQKFLRLIFGTLVQRWLEVQVANLTSPQRWVQYLLLLQESIWPGGVLPKFPRPVRTQ  
EQKLAAEKQALQSLMGVLPDLVVEILGVNKCRLSWGLVLESLLQPLINRHLYCLGDIIL  
EFLDLSASVEESAATTSASDTPGNSKRMGVSS

>sp|Q969T3|SNX21\_HUMAN Sorting nexin-21 OS=Homo sapiens GN=SNX21 PE=2 SV=1

MHRGTQEGAMASRLHLRLHALAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGT  
LSFTSAEDDEDDEDDEEAGPDQLPLGDGTSGEDAERSPPPDGQWGSQLLARQLQDFWK  
KSRNTLAPQRLLEFVTSANVVKDPPSKYVLYTLAVIGPGPPDCQPAQISRRYSDFERLHR  
NLQRQFRGPMAAISFPRKRLRRNFTAETIARRSRAFEQFLGHLQAVPELRHAPDLQDFFV  
LPELRAAQLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG  
EARACCEKALQLLDGKSLHPLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTTP  
PSLKELLIKEVLD

>sp|Q8WV41|SNX33\_HUMAN Sorting nexin-33 OS=Homo sapiens GN=SNX33 PE=1 SV=1

MALKGRALYDFHSENKEEISIQQEDLVIFSETSLDGWLQGQNSRGETGLFPASYVEIVR  
SGISTNHADYSSSPAGSPGAQVSLYNPSVASPARSGGSGFLSNQGSFEEDDDDDWDDW  
DDGCTVVEEPRAAGLTNGHPLNLSYPGAYPSQHMAFRPKPPLERQDSLASAKRGSVVG  
RNLNRFSCFVRSGVEAFILGDVPMMAKIAETYSIEMGPRGPQWKANPHPFACSVEDPTKQ  
TKFKGIKSYISYKLTPTHAASPVYRRYKHFWDLYNRLHLKFTVISVPHLPEKQATGRFEE

DFIEKRKRRLILWDMHTSHPVLSQYEGFQHFLSCLDDKQWKMGKRRAEKDEMVGASFLL  
TFQIPTEHQDLQDVEDRVDTFKAFSKKMDDSVLQLSTVASELVRKHVGGFRKEFQKLGSA  
FQAISHSFQMDPPFCSEALNSAISHTGRTYEAIGEMFAEQPKNDLFQMLDTLSLYQGILLS  
NFPDI IHLQKGAFKVKESQRMSDEGRMVQDEADGIRRRRCRVVGFALEAEMNHFHQRREL  
DFKHMMQNYLRQQILFYQRVGQLEKTLRMYDNL

>sp|O14508|SOCS2\_HUMAN Suppressor of cytokine signaling 2 OS=Homo sapiens GN=SOCS2 PE=1  
SV=1

MTLRCLPSGNGGEGTRSQWGTAGSAEESPQAARLAKALRELGGTGWYWSMTVNEAKE  
KLKEAPEGTFLIRDSSHSYLLTISVKTSAGPTNLRIEYQDGKFRLDIIICVKSCLKQFD  
SVVHLIDYVVMCKDKRTGPEAPRNGTVHLYLTKPLYTSAPSLQHLCLRTINKCTGAIWG  
LPLPTRLKDYLEEYKQV

>sp|O14543|SOCS3\_HUMAN Suppressor of cytokine signaling 3 OS=Homo sapiens GN=SOCS3 PE=1  
SV=1

MVTHSKFPAAGMSRPLDTSLRLKTFSSKSEYQLVVNAVRLQESGFYWSAVTGGEANLLL  
SAEPAGTFLIRDSSQHRHFTLSVKTSQSGTKNLRIQCEGGSFSLQSDPRSTQPVPRFDCV  
LKLVHHYMPPPGAPSFSPPTPEPSSEVPEQPSAQPLPGSPPRRAYIYSGGEKIPLVLSR  
PLSSNVATLQHLCKRTVNGHLDSYEKVTQLPGPIREFLDQYDAPL

>sp|Q8WXH5|SOCS4\_HUMAN Suppressor of cytokine signaling 4 OS=Homo sapiens GN=SOCS4 PE=1  
SV=1

MAENNENISKNVDRPKTSRSTRSADRKDGYYVWSGKKLSWSKKSESYSDAETVNGIEKTEV  
SLRNQERKHSCSSIELDLHSCGHRFLGRSLKQKLQDAVGQCPIKNCSSRHSSGLPSKR  
KIHISELMLDKCPFPSPRDLAFRWHFIKRHTAPINSKSDEWVSTDLSQTELRDGLKRRN  
MEENINCFSTNVQPCVITTDNALCREGPMTGSMNLVSNNISIEDSDMDSDEILTLCST  
SRKRNPWKWLDDEILQLETPPKYHTQIDYVHCLVPDLLQINNNPCYWGVMKYAAEALL  
EGKPEGTFLLRDSAQEDYLFVSFRRYSRSLHARIEQWNHNFSDAHDPCVFHSPDITGL  
LEHYKDPSACMFFEPLSTPLIRTFPFLQHCRTVICNCTTYDGDALPIPSSMKLYLK  
EYHYKSKVRVLRIDAPEQQC

>sp|P08294|SOD3\_HUMAN Extracellular superoxide dismutase [Cu-Zn] OS=Homo sapiens GN=SOD3  
PE=1 SV=2

MLALLCSCLLLAAGASDAWTGEDSAEPNSDSAEWIRDMYAKVTEIWQEVMQRRDDGALH  
AACQVQPSATLDAAPRVTVGVVLFRLAPRAKLDAFFALEGFTEPNSSSRAIHVHQFGD  
LSQGCESTGPHYNPLAVPHQHPGDFGNFAVRDGLWRYRAGLAASLAGPHSIVGRAVVV  
HAGEDDLGRGGNQASVENGNAGRRLACCVGVCGPGLWERQAREHSERKKRRRESECKAA

>sp|Q5JUK2|SOHL1\_HUMAN Spermatogenesis- and oogenesis-specific basic helix-loop-helix-  
containing protein 1 OS=Homo sapiens GN=SOHL1 PE=1 SV=4

MASRCSEPYEVSRIPTVRGCNGSLSGALSCCEDSARGSGPPKAPTVAEGPSSCLRRNVI  
SERERRKRMSLSCELRALLPQFDGRREDMASVLEMSVQFLRLASALGPSQEQHAILASS  
KEMWHSQEDVLQLTLSSQIQAGVPDPGTGASSGTRTPDVKAFLESPWSLDPASASPEPV  
PHILASSRQWDPASCTSLGTDKCEALLGLCQVRGGLPPFSEPSLVPPGRSLPKAVRP  
PLSWPPFSQQQLTPVMSGEALGWLQAGPLAMGAAPLGEPAKEDPMLAQEAGSALGSDVD  
DGTSFLLTAGPSSWPGEWGPFRAGPPA

>sp|Q9NRY2|SOSSC\_HUMAN SOSS complex subunit C OS=Homo sapiens GN=INIP PE=1 SV=1  
MAANSSGQGFQKNRVAITLAELDEKRRKLLMQNQSSTNHPGASIALSRPSLNKDFRDHAE  
QQHIAAQQKAALQHAHAHSSGYFITQDSAFGNLILPVLPRLDPE

>sp|000570|SOX1\_HUMAN Transcription factor SOX-1 OS=Homo sapiens GN=SOX1 PE=1 SV=2  
MYSMMMETDLHSPGGAQAPTNLSPAGAGGGGGGGGGGGGAKANQDRVKPMNAFMV  
WSRGQRRKMAQENPKMHNSEISKRLGAEWKVMSEAERPFIDEAKRLRALHMKEHPDYKY  
RPRRKTKTLLKKDKYSLAGLLAAGAGGGGAAMGVGVGAAAVGQRLSPGGAAGGG  
YAHVNGWANGAYPGSVAAAAAAMMQEQLAYGQHPGAGGAHPAHPAHPHPHPAHP  
HNPQPMHRYDMGALQYSPISNSQGYMSASPSGYGGLPYGAAAAAAGGAHQNSAVAAA  
AAAAAASSGALGALGSLVKSEPSGPPAPASRAPCPGDLREMISMYLPAGEGGDPAAAA  
AAAAQSRLHSLPQHYQGAGAGVNGTVPLTHI

>sp|Q9BT81|SOX7\_HUMAN Transcription factor SOX-7 OS=Homo sapiens GN=SOX7 PE=1 SV=1  
MASLLGAYPWPEGLECPALDAELSDGQSPPAVPRPPGDKGSESRIIRPMNAFMVWAKDER  
KRLAVQNPDHLNAELSKMLGKSWKALTLSQKRYPVDEAERLRLQHMQDYPNYKYRPRRKK  
QAKRLCKRVPDGFLLSSLSRDQNALPEKRSGSRGALGEKEDRGEYSPGTALPSLRGCYHE  
GPAGGGGGGTPSSVDITYPYGLTPPEMSPLDVLEPEQTFSSPCQEEHGHPRRIPHLPGH  
PYSPEYAPSPLHCSHPLGSLALGQSPGVSMSPVPGCPPSPAYYSPATYHPLHSNLQAHL  
GQLSPPEHPGFDALDQLSQVELLDMDRNEFDQYLNTPGHPDSATGAMALSGHVPSQV  
TPTGPTETSLISVLADATATYNSYSVS

>sp|Q9HBM1|SPC25\_HUMAN Kinetochore protein Spc25 OS=Homo sapiens GN=SPC25 PE=1 SV=1  
MVEDELALFDKSIENFWNFKSTDTSCQMAGLRDITYKDSIKAFAEKLSVKLKEEERMVEM  
FLEYQNQISRQNKLIQEKKDNLKLI AEVKGKKQELEVLTANIQDLKEEYSRKKETISTA  
NKANAERLKRLLQKSADLYKDRLGLEIRKIYGEKLQFIFTNIDPKNPESPFMFSLHLNEAR  
DYEVSDSAPHLEGLAEFQENVRKTNNSAFLANVRKAFTATVYN

>sp|Q495Y8|SPDE2\_HUMAN Speedy protein E2 OS=Homo sapiens GN=SPDYE2 PE=1 SV=2  
MDRTETRFRRKGQITGKITTSRQPHPQNEQSPQRSTSGYPLQEVVDEMLGPSAPGVDPS  
PPCRSLGWKRKREWSDESEEEPEKELAPEPEETWVVEMLCGLKMKLQQRVSPILPEHHK  
DFNSQLAPGVDPSPHRSFCWKRMWDESEESLEEEPRKVLAPEPEEIWVAEMLCGLK  
MKLRRRVSLVLPHEHFAFNRLLEDPVIKRFLAWDKDLRVSDKYLLAMVIAFYFRAGFPS  
WQYQRIHFFLALYLANDMEEDDESKQNIHFHLYRKNRSRIPLLRKPFQLGHSMNPRAR  
KNRSRIPLLRKRFRQLYRSTNPRARKNRSRIPLLRKRFRQLYRSMNSRARKNRSQIVLFQ  
KRRFHFFCSMSCRAWVSPEELEEIQAYDPEHVVWARDRAHLS

>sp|Q8NA61|SPERT\_HUMAN Spermatid-associated protein OS=Homo sapiens GN=SPERT PE=1 SV=1  
MSPLECSECFGDLHLRTYTWQLTLHSRPNYTRKDRTRSESLEIPISVVLPRGTAEPFP  
RLHNLYSTPRCAQAALPRLSRRMASQHSYPLNRFSSVPLDPMERPMSQADLELDYNPPR  
VQLSDEMVFVQDGRWVNENCRQLSPYFSPSASFHHKLHHKRLAKECMLQEENKSLREENK  
ALREENRMLSKENKILQVFWEHKA SLGREESRAPSPLLHKDSASLEVVKDHALQVPR  
GKEDSTLQLLREENRALQQLLEQKQAYWAQEDTAAPAEESKPAPSPHEEPCSPGLLQDQ  
GSGLSSRFEEPKGPPARQEDSKELRALRKMVSNMSGPSGEEAKVGPLPDGCQPLQLLR  
EMRQALQALLKENRLQREENRTLQVLR AEHRGFQEENKALWENNKLLKQQLVIDTVTEV  
TARMEMLIEELYAFMPARSQDPKKPSRV

>sp|075940|SPF30\_HUMAN Survival of motor neuron-related-splicing factor 30 OS=Homo sapiens GN=SMNDC1 PE=1 SV=1  
MSEDLAKQLASYKAQLQQVEAALSGNGENEDLLKLLKDLQEVIELTKDLLSTQPSETLAS  
SDSFASTQPTHSWKVGDKCMAVWSEDDGQCYEAEIEEIDEENGTAITFAGYGNAEVTPLL  
NLKPVEEGRKAKEDSGNKPMKKEMIAQQREYKKKKALKKAQRIKELEQEREDQKVKWQQ  
FNNRAYSKNKKGVKRSIFASPESVTGKVGVTGCIADKPMTQYQDTSKYNVRLMPQ



>sp|Q9NS26|SPNXA\_HUMAN Sperm protein associated with the nucleus on the X chromosome A  
OS=Homo sapiens GN=SPANXA1 PE=1 SV=1

MDKQSSAGGVKRSVPCDSNEANEMMPETPTGSDPQPAPKKMKTSESSTILVVRYRRNFK  
RTSPEELLNDHARENRINPLQMEEEFMEIMVEIPAK

>sp|Q9NY87|SPNXC\_HUMAN Sperm protein associated with the nucleus on the X chromosome C  
OS=Homo sapiens GN=SPANXC PE=1 SV=2

MDKQSSAGGVKRSVPCDSNEANEMMPETSSGYSDPQPAPKKLKTSESSTILVVRYRRNVK  
RTSPEELVNDHARENRINPLQMEEEFMEIMVEIPAK

>sp|Q6ZMY3|SPOC1\_HUMAN SPOC domain-containing protein 1 OS=Homo sapiens GN=SPOCD1 PE=2  
SV=1

MSQAGDVEGPSTGDPVLS PQHNCELLQNMEGASSMPGLSPDGPASSGPGVRAGSRRKIP  
RKEALRGSSRAAGAAEVRPGVLELLAVVQSRGSMLAPGLHMQLPVPTQGRALTSKRLQ  
VSLCDILDDSCPRKLCSRSAGLPERALACRERLAGVEEVSCLRPREARDGGMSSPGCDRR  
SPTLSKEEPPGRPLTSSDPVPVRVRKKWRRQGAHSECEEAGDFLWLDQSPRGDNLLSV  
GDPPQVADLES LGGCRPPSPKDTGSGPGEGSGAGCASGTEKFGYLPATGDGPQPGSP  
CGPVGFVPVSGGESLSSAAQAPPQSAALCLGASQAQAEQQEAVCVVRTGSDEGQAPAQD  
QEELEAKAQPASGRLEQGLAAPADTCASSREPLGGLSSSLDTEASRACSGPFMEQRRSK  
GTKNLKKGPVPCAQDRGTDRSSDNHQDRPEEPSGGCPRLEEVKIPHGVLVCYLGGSP  
VIQLLGAISHGQAGGQLPPKLEVEDLMEVSSPSAQRLRRKKRPMVQGPAGCQVFQPS  
SGGTAGDPGGLSDPFYPPRSGSLALGDPSSDPACSGSGPMEAEEDSLPEQPEDSAQLQQE  
KPSLYIGVRGTVVRSMQEVLTWTRLRELDPVLS EEVVEGIAAGIEAALWDLTQGTNGRYK  
TKYRSLLFNLRDPRNLDLFLKVHGDVTPYDLVRMSSMLAPQELARWRDQEEKRGLNII  
EQQKQKEPCRLPASKMTHKGEVEIQRDMDQTLTLEDLVGPQMFMDCSPQALPIASEDTTGQ  
HDHFLDPNCHICKDWEPSNELLGSFEAAKSCGDNIFQKALSQTPMPAPEMPKTRELSPT  
EPQDRVPPSGLHVPAAPTKALPCLPPWEGVDMFSIKRFRARAQLVSGHSCRLVQALPTV  
IRSAGCIPSNIVWDLASICPAKAKDVCVRLCPHGARDTQNCRLLYSYLNDQRHGLAS  
VEHMGMVLLPLPAFQPLPTRLRPLGGPGLWALPVSPLLSPGLEVTHSSLLLAVLLPKEGL  
PDTAGSSPWLKGVQKMFNSKVEKRYYPDDRPNVPLKGTTPPGGAWQQSQGRGSIAP  
RGISAWQRPPRGRGRLWPEPENWQHPGRGQWPEPGLRQSQHPYSVAPAGHGFRGQHFH  
RDSCPHQALLRHLES LATMSHQLQALLCPQT KSSIPRPLQRLSSALAAPEPPGPARDSSL  
GPTDEAGSECPFPRKA

>sp|043791|SPOP\_HUMAN Speckle-type POZ protein OS=Homo sapiens GN=SPOP PE=1 SV=1

MSRVSPPPPAEMSSGPVAESWCYTQIKVVKFSYMWTINNFSFCREEMGEVIKSSTFSSG  
ANDKLKWLVRNPKGLDEESKDYLSLYLLLVSCPKEVRAKFKFSILNAKGEETKAMESQ  
RAYRFVQKDWGFKKFIRRDFLLEANGLLPDDKLTLCFCEVSVVQDSVNI SGQNTMNMVK  
VPECRLADELGGLWENS RFTDCCLCVAGQEFQAHKAILAARSPVFSAMFEHEMEESKKNR  
VEINDVEPEVFKEMMCFIYTGKAPNLDMADDLLAAADKYALERLKM CEDALCSNLSVE  
NAAEILILADLHSA DQLKTQAVDFINYHASDVLETSGWKSMVVSHPHLVAEAYRSLASAQ  
CPFLGPPrKRLKQS

>sp|Q8TCT7|SPP2B\_HUMAN Signal peptide peptidase-like 2B OS=Homo sapiens GN=SPPL2B PE=1  
SV=2

MAAAVAAAARLLAAFLLLAAQVACEYGMVHVVSQAGGPEGKDYCILYNPQWAHLPHDLS  
KASFLQLRNWTASLLCSAADLPARGFSNQIPLVARGNCTFYEKVRLAQSGARGLLIVSR  
ERLVPPGGNKTQYDEIGIPVALLSYKDMLDIFTRFGRTVRAALYAPKEPVL DYNMVIIFI

MAVGTVAIIGGYWAGSRDVKKRYMKHKRDDGPEKQEDEAVDVTVMTCVFVVMCCSMLVLL  
YYFYDLLVYVVIGIFCLASATGLYSCLAPCVRRLPFGKCRIPNNSLPYFHKRPQARMLLL  
ALFCVAVSVVWGVFRNEDQWAWVLQDALGIAFCLYMLKTIRLPTFKACTLLLLVLFLYDI  
FFVFITPFLTKSGSSIMVEVATGPSDSATREKLPMLVKVPRLNSSPLALCDRPFSLLGFG  
DILVPGLLVAYCHRFDIQVQSSRVYFVACTIAYGVGLLVTFVALALMQRGQPALLYLVPC  
TLVTSCAVALWRRELGVFWTGSGFVKVLPSPWAPAPADGPQPPKDSATPLSPQPPSEEP  
ATSPWPAEQSPKSRTSEEMGAGAPMREPGSPAESEGRDQAQPSPTQPGASA

>sp|P22528|SPR1B\_HUMAN Cornifin-B OS=Homo sapiens GN=SPRR1B PE=1 SV=2

MSSQQQKQPCTPPPQLQQQVKQPCQPPQEPICPKTKEPCHPKVPEPCHPKVPEPCQPK  
VPEPCHPKVPEPCPSIVTPAPAQQKTKQK

>sp|P22532|SPR2D\_HUMAN Small proline-rich protein 2D OS=Homo sapiens GN=SPRR2D PE=2 SV=2

MSYQQQCKQPCPPPVCPPTKCEPCPPPKCEPCPSPKCPQCPPQQCQKYPPVTPS  
PPCQPKCPPKSK

>sp|Q2MJR0|SPRE3\_HUMAN Sprouty-related, EVH1 domain-containing protein 3 OS=Homo sapiens  
GN=SPRED3 PE=2 SV=1

MVRVRAVVMARDDSSGGWLPVGGGGLSQVSVCRVARGARPEGGARQGHYVIHGERLRDQKT  
TLECTLKPGLVYNKVNPIFHHWSLGDCKFGLTFQSPAEADEFQKSLAALAALGRGSLTP  
SSSSSSSSPSQDTAETPCPLTSHVDSSSSSHSRQETPPSAAAAPITMESASGFGPTTP  
PQRRRSSAQSYPPLLPFTGIPPESEPLAGAGGLGWGGRGYEDYRRSGPPAPLALSTCVVR  
FAKTGALRGAALGPPAALPAPLTEAAPPAPPARPPPGPGSSAPAKASPEAEAAARCVHC  
RALFRRRADGRGGRCAEAPDPGRLLVRRLSCLWCAESLLYHCLSDAEGDFSDPCACEPGH  
PRPAARWAALAALSLAVPCLCCYAPLRACHWVAARCGCAGCGGRHEEAAR

>sp|P62341|SELT\_HUMAN Selenoprotein T OS=Homo sapiens GN=SELT PE=2 SV=2

MRLLLLLLVAASAMVRSEASANLGGVPSKRLKMQYATGPLLKFKICVSUGYRRVFEEYMR  
VISQRYPDIRIEGENYLPQPIYRHIAFSLSVFKLVLIIGLIIVGKDPFAFFGMQAPSIWQW  
GQENKVYACMMVFSLNMIENQCMSTGAFEITLNDVPVWSKLESGLPSMQQLVQILDNE  
MKLVNHMDSIPHRS

>sp|P59797|SELV\_HUMAN Selenoprotein V OS=Homo sapiens GN=SELV PE=1 SV=2

MNNQARTPAPSSARTSTSVRASTPTRTPTPLRTPTVTRTPTIRTLTPVLTPSPAGTSPL  
VLTPAPAQIPTLVPTPALARIPRLVPPPAPAWIPTPVPTPVVRNPTPVPTPARTLTPPV  
RVPAPAPAQLLAGIRAALPVLDSYLAPALPLDPPPEPAPELPLLPEEDPEPAPSLKLIPS  
VSSEAGPAGPLPTRTPLAANSPGPTLDFTRADPSAIGLADPPIPSVPVSPILGTIPSA  
ISLQNTETTFPSSSENFALDKRVLIRVTYGLUSYSLRYILLKKSLEQQFPNHLLFEEDR  
AAQATGEFEVFNGLRVHSHKRGDGFVNESRLQKIVSVIDEEIKR

>sp|P63302|SELW\_HUMAN Selenoprotein W OS=Homo sapiens GN=SEPW1 PE=1 SV=3

MALAVRVVYCGAUGYKSKYLQLKKKLEDEFPGRLDICGEGTPQATGFFEVMVAGKLIHKS  
KKGDGYVDTESKFLKLVAAIKALAAG

>sp|Q14563|SEM3A\_HUMAN Semaphorin-3A OS=Homo sapiens GN=SEMA3A PE=1 SV=1

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LKAYNQTHLYACGTGAFHPICTYIEIGHHPEDNIFKLENSHFENGGRGKSPYDPKLLTASL  
LIDGELYSGTAADFMRDFAIFRTLGHHPHIRTQHDRLNDPKFISAHLISESDNPED  
DKVYFFFRENAIDGEHSGKATHARIGQICKNDFGGHRSLVNKWTTFLKARLICSVPGPNG  
IDTHFDELQDVFLMNFKDPKNPVVYGVFTTSSNIFKGSVCMYSMSDVRRVFLGPYHRD

GPNYQWVPYQGRVPYPRPGTCPSKTFGGFDSTKDLRDDVITFARSHPAMYNPVFPMNNRP  
IVIKTDVNYQFTQIVVDRVDAEDGQYDMFIGTDVGTVLKVVSIPKETWYDLEEVLLLEEM  
TVFREPTAISAMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGS  
ACSRYPFTAKRRTRRRQDIRNGDPLTHCSDLHHDNHHGHSPEERI IYGVENSSTFLECSPK  
SQRALVYWQFQRRNEERKEEIRVDDHIIRTDQGLLLRSLQQKDSGNYLCHAVEHGF IQTL  
LKVTLEVIDTEHLEELLHKDDDGSGSKTKEMSNSMTPSQKVWYRDFMQLINHPNLNTMDE  
FCEQVWKRDRKQRRQRPGHTPGNSNKWKHLQENKKGRNRRTHEFERAPRSV

>sp|Q9P283|SEM5B\_HUMAN Semaphorin-5B OS=Homo sapiens GN=SEMA5B PE=2 SV=4

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PGARDFSQALDPSGNQLIVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEE  
ECQNYVRVLIVAGRKVFMCGTNAFSPMCTSRQVGNLSRTIEKINGVARCPYDPRHNSTAV  
ISSQGELYAATVIDFSGRDPAIYRSLGSGPPLRTAQYNSKWLNEPNFVAAYDIGLFAYFF  
LRENAVEHDCGRTVYSRVARVCKNDVGGRFLEDTWTTFMKARLNCSPGVEVPFYYNELQ  
SAFHLPEQDLIYGVTNNVNSIAASAVCAFNLSAISQAFNGPFRYQENPRAAWLP IANPI  
PNFQCGTLPETGPNENLTERSLQDAQRLFLMSEAVQPVTPEPCVTQDSVRFSHLVVDLVQ  
AKDTLYHVLYIGTESGTLKALSTASRSLHGCYLEELHVLPPGRREPLRSLRILHSARAL  
FVGLRDGVLVRPLERCAAYRSQGACLGARDPYCGWDGKQRCSTLEDSSNMSLWTQNITA  
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CSRNGAWTPWSSWALCSTSCGIGFQVRQRSCSNPAPRHGGRICVGKSREERFCNENTPCP  
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PWLVPVNTQGGARQEQRFRFTCRAPLADPHGLQFGRRRRTETRTCPADGSGSCDTDALVEV  
LLRSGSTSPHTVSGGWAAGWPSSCSRDCELGFRVRKRTCTNPEPRNGGLPCVGDAAEYQ  
DCNPQACPVRGAWSCWTSWSPCSASC GGGHYQRTSCTSPAPSPGEDICLGLHTEALCA  
TQACPEGWSPWSEWSKCTDDGAQSRSRHCEELLPGSSACAGNSSQSRPCPYSEIPVILPA  
SSMEEATDCAGFNL IHLVATGISCF LGSGLLTAVYLSQCQCQRQSQUESTLVHPATPNHL  
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>sp|Q8NFY4|SEM6D\_HUMAN Semaphorin-6D OS=Homo sapiens GN=SEMA6D PE=1 SV=1

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GKLYSATVADFLASDAVIYRSMGDGSALRTIKYDSKWIKEPHFLHAIEYGNVYVFFREI  
AVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWSFLKARLNCSPGDSFFYFDVLQSI  
TDIIQINGIPTVVGVTTLQNSIPGSAVCAFSMDIEKVFKGRFKEQKTPDSVWTAVPED  
KVPKPRPGCCAKHGLAEAYKTSIDFPDETL SFIKSHPLMDSAVPPIADEPWFTKTRVYR  
LTAISVDHSAGPYQNTVIVFGSEAGMVLKVLAKTSPFSLNDSVLLEEIEAYNHAKCSAE  
NEEDKKVISLQLDKDHALYVAFSSCIIRIPLSRCERYGSCKKSCIASRDPYCGWLSQGS  
CGRVTPGMLAEGYEQDTEFGNTAHLGDCHEILPTSTTPDYKIFGGPTSDMEVSSSVTTM  
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HQKTLQAMKSHSEKAHGHGASRKETPQFFPSSPPPHSPLSHGHIPSAIVLPNATHDYNTS  
FSNSNAHKAIEKKLQNI DHPLTKSSSKRDHRRSVDSRNTLNDLLKHLNDPNSNPKAIMGDI

QMAHQNLMLDPMGSMSEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPMSTLER  
QRGYHKNSSQRHSISAMPKNLNSPNGVLLSRQPSMNRGGYMTPTGAKVDYIQGTPVSVH  
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>sp|075326|SEM7A\_HUMAN Semaphorin-7A OS=Homo sapiens GN=SEMA7A PE=1 SV=1

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LDRDCENYITLLERRSEGLLACGTNARHPSCWNLVNGTVVPLGEMRGYAPFSPDENSLV  
LFEGDEVYSTIRKQEYNGKIPRFRIRGESELYTSDTVMQNPQFIKATIVHQDQAYDDKI  
YYFFREDNPDKNPEAPLNVSRVAQLCRGDQGGESSLSVSKWNTFLKAMLVCSDAATNKNF  
NRLQDVFLLPDPSGQWRDTRVYGVFSNPWNYSACVYSLGDIDKVFRTSSLKGYHSSLPN  
PRPGKCLPDQQPIPTETFFQVADRHPEVAQRVEPMGLKTPLFHSHYHYQKVAVHRMQASH  
GETFHVLYLTTRDGTIHKVVEPGEQEHSAFNIMEIQPFRAAAAIQTMSLDAERRKLYVS  
SQWEVSQVPLDLCEVYGGGCHGCLMSRDPYCGWDQGRCSISYSSERSVLQSINPAEPHKE  
CPNPKPDKAPLQKVS LAPNSRYLSCPMESRHATYSWRHKENVEQSCEPGHQSPNCILFI  
ENLTAQQYGHYFCEAQEGSYFREAQHWQLLPEDGIMAEHLLGHACALASLWLGVLPTLT  
LGLLVH

>sp|Q8WW01|SEN15\_HUMAN tRNA-splicing endonuclease subunit Sen15 OS=Homo sapiens GN=TSEN15  
PE=1 SV=1

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YVAFVLVYDLMESKSWHEVNCVGLPELQLICLVGTEIEGEGQLQTVVPTITASLSHNRIR  
EILKASRKLQGDPLPMSFTLAIVESDSTIVYYKLTGDFMLPDPQNISLRR

>sp|Q12884|SEPR\_HUMAN Prolyl endopeptidase FAP OS=Homo sapiens GN=FAP PE=1 SV=5

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LWRYSYTATYYIYDLSNGEFVRGNELPRPIQYLCWSPVGSKLAYVYQNNIYLKQRPGDPP  
FQITFNGRENKIFNGIPDWVYEEEMLATKYALWSPNGKFLAYAEFNDTDIPVIAYSYYG  
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DERVCLQWLKRVQNVSVLSICDFREDQWTWDCPKTQEHIEESRTGWAGGFFVSTPVFSYD  
AISYYKIFSDKDGKYKHIHYIKDVTENAIQITSGKWEAINIFRVTQDSLFISSNEFEEYPG  
RRNIYRISIGSYPPSKKCVTCHLRKERCQYYTASFSDYAKYYALVCYGP GIP ISTLHDGR  
TDQEIKILEENKELENALKNIQLPKEEIKKLEVDEITLWYKMILPPQFDRSKKYPLLIQV  
YGGPCSQSVRSVFAVNWISYLASKEGMVIALVDGRGTAFQGDKLLYAVYRKLGVYEVEDQ  
ITAVRKFIEMGFIDEKRIAIWGSYGGYVSSLALASGTGLFKCGIAPVSSWEYYASVY  
TERFMGLPTKDDNLEHYKNSTVMARA EYFRNVDYLLIHGTADDNVHFQNSAQIAKALVNA  
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>sp|Q8WYJ6|SEPT1\_HUMAN Septin-1 OS=Homo sapiens GN=SEPT1 PE=1 SV=2

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ESGLNRKNIQDSRVHCCLYFISPFGRGLRPLDVAFLRAVHEKVNIIPVIGKADALMPQET  
QALKQKIRDQLKEEIIHIYQFPECDSDEDEDFKRQDAEMKESIPFAVVGSC EVVRDGGNR  
PVRGRRYSWGTV EENPHHCDFLNLRRMLVQTHLQDLKEVTHDLLYEGYRARCLQSLARP  
GARDRASRSKLSRQSATEIPLPMLPLADTEKLIREKDEELRRMQEMLEKMQAQM QSQSAQ  
GEQSDAL

>sp|Q99719|SEPT5\_HUMAN Septin-5 OS=Homo sapiens GN=SEPT5 PE=1 SV=1

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VHSLFLTDLYKDRKLLSAEERISQTVEILKHTVDIEEKGVKLKLTIVDTPGFGDAVNTE  
CWKPITDYVDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFHGHLRPVDVGFMKALHE  
KVNIVPLIAKADCLVPSEIRKLKERIREEIDKFGIHVYQFPECDSDEDEDFKQDRELKE  
SAPFAVIGSNTVVEAKGQVRVRGRLYPWGIVEVENQAHCDFVKLRNMLIRTHMHDLDKDVTC  
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RMKQQMQDQ

>sp|Q8N4B1|SESQ1\_HUMAN Sesquipedalian-1 OS=Homo sapiens GN=FAM109A PE=1 SV=1

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RELEQQLA AVRGGGGMALPQPQPQSLPLPPSLPSALAPVPSLPSAPAPVPALPLPRRPSA  
LPPKENGCAVWSTEATFRPGPEPPPPPPRRRASAPHGPLDMPFARLHECYGQEIRALRG  
QWLSSRVQP

>sp|Q15047|SETB1\_HUMAN Histone-lysine N-methyltransferase SETDB1 OS=Homo sapiens  
GN=SETDB1 PE=1 SV=1

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LAELETWVIQKESEVAHVVDQLFDDASRAVTNCESLVKDFYSKLGLQYRDSSEDESRPT  
EIIIEIPDEDDDLVLSIDSGDAGSRTPKDQKLREAMAALRKSAQDVQKFMDAVNKKSSSQDL  
HKGTLQMSGELSKDGLIVSMRILGKKRTKTWHKGTLIAITVGP GK KYKVKFDNKGKS  
LLSGNHIA YDYHPPADKLYVGSRVVAKYKDG NQVWLYAGIVAETPNVKNKLRFLIFFDDG  
YASYVTQSELYPICRPLKKTWEDIEDISCRDFIEEYVTAYPNRPMVLLKSGQLIKTEWEG  
TWWKSRVEEVDGSLVRILFLDDKRCEWIYRGSTRLEPMFSMKTSSASALEKKQGQLRTRP  
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ALPAPPAPPVFHGM LERAPA EPSYRAPMEKLFYLP HVCSYTCLSRVRPMRNEQYRGKNPL  
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DPYVLVDRKFQPYKPFYYILDITYGKEDVPLSCVNEIDTTPPPQVAYSKERIPGKGVFIN  
TGPEFLVGCDCKDGCRDKSKCACHQLTIQATACTPGGQINPNSGYQYKRLEECLPTGVYE  
CNKRCKCDPNMCTNRLVQHGLQVRLQLFKTQNKGWGIRCLDDIAKGSFVCIYAGKILTDD  
FADKEGLEMGEYFANLDHIESVENFKEGYESDAPCSSDSSGVDLKDQEDGNSGTEDPEE  
SNDDSSDDNFCKDEDFSTSSVWRSYATRRQTRGQKENGLSETTSKDSHPDLGPPHIPVP  
PSIPVGGCNPPSSEETPKNKVASWLS CNSVSEGGFADSDSHSFKTNEGGEGRAGGSRME  
AEKASTSGLGIKDEGDIKAKKEDTDDRNKMSVVTESSRNYGYNPSPVKPEGLRRPPSKT  
SMHQSRLMASAQSNPDDVLTLSSTESEGESGTSRKPTAGQTSATAVDSDDIQTISSGS  
EGDDFEDKKNMTGPMKRQVAVKSTRGFALKSTHGIAIKSTNMASVDKGESAPVRKNTRQF  
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>sp|Q9BYW2|SETD2\_HUMAN Histone-lysine N-methyltransferase SETD2 OS=Homo sapiens GN=SETD2  
PE=1 SV=3

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GDTLSTAESSPPKSRVELGKIHFKKHLLHVTSRPLLATTTAVASPPTHAAPLPAVIAES  
TTVDSPPSSPPPPPPPAQATTLSPPAPVTEPVALPHTPITVLMAAPVPLPVDVAVRSLKE  
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SCKKTGSKKKSSQSEGIFLGSEDEDSVRTSSSQRSHDLKFSASIEKERDFKKSSAPLKS  
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RSERSHYDSDRRYHRSSPYRERTRYSRPYTDNRARESSDSEEEYKKTYSRRTSSHSSSY  
RDLRTSSYSKSDRDKCTETSYLEMERRGKYSSKLERESKRTSENEAIKRCCSPPNELGFR  
RGSSYSKHDSSASRYKSTLSKPIPKSDKFKNSFCCTELNEEIKQSHSFSLQTPCSKGSEL  
RMINKNPEREKAGSPAPSNRLNDSPTLKKLDELPIFKSEFI THDSHDS IKELDSL SKVKN  
DQLRSFCPIELNINGS PGAESDLATFCTSKTDAVLMTSDSVTGSELSPLVKACMLSSNG  
FQNISRCKEKDLDDTCMLHKKSES PFRETEPLVSPHQDKLMSMPVMTVDYSKTVVKEPVD  
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LTDHSKFACEYKQSIGSTSSASVNHFDLYQPIGSSG IASSLQSLPPGIKVDLTLKLC  
GENTSPVLDAVLKSKKSSEFLKHAGKETIVEVGSDLPDSGKGFA SRENNRNGLSGKCLQ  
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DFSQEK PSTTYQQPDSSYGACGGHKYQQNAEQYGGTRDYWQGNQYWDPRSGRPPGTGVVY  
DRTQGQVPDSLTDDEEEENWDQDGS HFSDQSDKFLLSLQKDKGSVQAPEISSNSIKDT  
LAVNEKKDFSKNLEKNDIKDRGPLKKRRQEIESDSESDGELQDRKKVRVEVEQGETSVPP  
GSALVG PSCVMDDFRDPQRWKECAKQGMPCYFDLIEENVYLTERKKNKSHRDIKRMQCE  
CTPLSKDERAQGEIACGEDCLNRLLMIECSSRCPNGDYCSNRRFQRKQHADVEVILTEKK  
GWGLRAAKDLPSNTFVLEYCGEVL DHKEFKARVKEYARNKNIHYFMALKNDEIIDATQK  
GNCSR FMNHSCEPNCETQKWTVNGQLRVGF FTKLVPSGSELTFDYQFQRYGKEAQKCF  
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LMVRIETLEQKLTCELIQNTHSQSCLKSFLE RHGLSLLWIWMAELGDGRESNQKLQEEI  
IKTLEHLP IPTKNMLEESKVLPIIQRWSQTKTAVPPLSEG DGYSSENTSRAHTPLNTPDP  
STKLSTEADTDTPKKLMFRRLKIISENSMDSAISDATSELEGKDGEDLDQLENVPVEEE  
EELQSQQLLPQQLPECKVDSETNIEASKLPTSEPEADAEIEPKESNGTKLEEPINEETPS  
QDEEEGVSDVESERSQE QPDKTVDISDLATKLLDSWKDLKEVYRIPKKSQTEKENTTTER  
GRDAVGFRDQTPAPKTPNRSRERDPDKQTQNK EKRKRSSLSPSSAYERGTRPDDRYD  
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HHPFAGYPPGYPMQAYVDPSNP NAGVLLPTPSMDPVCSPAPYDHAQPLVGHSTEPLSAP  
PPVPVVPVHAAPVEVSSSQYVAQSDGVVHQDSSVAVLPVPAPGPVQGNYSVWDSNQQSV  
SVQQQYSPAQSQATIYYQGQCPTVYGVTS PYSQTTPIVQSYAQPSLQYIQGQQIFTAH  
PQG VVVQPAAAVTTIVAGQPQLPQSEM VVTNNLLDLPPPSPKPKTIVLPPNWK TARD  
PEGKIYYYHVITRQTQWDPPTWESPGDDASLEHEAEMDLGTPTYDENPMKASKPKTAEA  
DTSSELAKKSKEVFRKEMSQFIVQCLNPYRKPDC KVGRI TTEDFKHLARKLTHGVMNKE  
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>sp|095104|SFR15\_HUMAN Splicing factor, arginine/serine-rich 15 OS=Homo sapiens GN=SCAF4  
PE=1 SV=3

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GVFKIEIIQPLLDMAAGTSNAPVAENV TNNEGSPPPPVKVSSEPPTQATPNSVPAVPQL  
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PSEQKAAFPPPEQKTAFDKLLDRFDYDDEPEAVEESKKEDTTAVTTTAPAAAVPPAPTA  
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PNGQMPPGFLLPTPPFPFMAQVPIPTPPVQQPFQASFQAQNEPLTQKPHQQEMEVEQPC  
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PPFPLRPGFNPMLPGLPPGPPPIITPPVSIPPPHTPPISIPNSTIAGINEDTTKDL  
IGNPIPTVVSGARGNAESGDSVKMYGSAVPPAAPTNLPTPPVTQPVSLGTQGVAPGPVI  
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QQQQQQPPPSQQPPPTQQQPQQFRNDNRQQFNSSGRDQERFGRRSFGNRVENDRERYGNRN  
DDRNSNRDRREWGRSPDRDRHRDLEERNRRSSGHRDRERDSRDRESRREKEEARGKEK  
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SAAEAPR

>sp|Q9BZQ2|SHP1L\_HUMAN Testicular spindle-associated protein SHCBP1L OS=Homo sapiens  
GN=SHCBP1L PE=1 SV=3

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GILVEVTCEPYQDSSSRFKVTVSVAEPFSSNIANIPRDLVDEILEELEHSVPLLEVYPVE  
GQDTDIHVIALALEVVRFFYDFLWRDWDDEESCENYTALEERINLWCDIQDGTIPGPIA  
QRFKKTLEKYKNKRVELIEYQSNIKEDPSAAEAVECWKKYYEIVMLCGLLKMWEDLRLRV  
HGPFPRILRRRGKREFGKTIITHIVAKMMTTEMIKDLSSDTLLQQHGDLDLALDNCYSG  
DTVIIFPGEYQAANLALLTDDIIKGVGKREEIMITSEPSRDSFVVSADNVKLMHLSLI  
QQGTVDGIVVVESGHMTLENCILKCEGTGVCVLTGAALTITDSEITGAQGAGVELYPGSI  
AILERNEIHHCNNLRTSNSSKSTLGGVNMKVLPAPKLKMTNNHIYSNKGYSILQPMEQ  
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>sp|P78324|SHPS1\_HUMAN Tyrosine-protein phosphatase non-receptor type substrate 1 OS=Homo  
sapiens GN=SIRPA PE=1 SV=2

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IPVGPIQWFRGAGPGRELIYNQKEGHFPRVTTVSDLTRNNMDFSIRIGNITPADAGTYY  
CVKFRKGSPDDVEFKSGAGTELSVRAKPSAPVVS GPAARATPQHTVSFTCESHGFSPRDI  
TLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVLTRDVDHSQVICEVAHVTLQGDPL  
RGTANLSETIRVPPTLEVTTQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTEAS  
TVTENKDGTYNWMWLLVNVSAHRDDVKLTQVEHDGQPAVSKSHDLKVS AHPKEQGSNT  
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>sp|Q96DD7|SHSA4\_HUMAN Protein shisa-4 OS=Homo sapiens GN=SHISA4 PE=2 SV=3

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LQSPFEGQEIPMTGIPVQPVYPYQDPKAGAPPQPGFIYPPSGPAPQYPLYPAGPPVYN

PAAPPPYMPPQPSYPGA

>sp|Q9BVH7|SIA7E\_HUMAN Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5  
OS=Homo sapiens GN=ST6GALNAC5 PE=2 SV=1

MKTLMRHGLAVCLALTTMCTSLLLVYSSLGGQKERPPQQQQQQQQQQASATGSSQPAA  
ESSTQQRPGVPAGPRPLDGYLGVADHKPLKMHCRCALVTSSGHLHLSRQGSQIDQTECV  
IRMNDAPTRGYGRDVGNRSLRVIAHSSIQRILNRHDLLNVSQGTVFIFWGPSSYMRRD  
GKGQVYNNLHLLSQVLPRLKAFMITRHKMLQFDELFKQETGKDRKISNTWLSTGWFTMTI  
ALELCDRINVYGMVPPDFCRDPNHPSVPYHYEYFPGPDECTMYLSHERGRKGSHHRFITE  
KRVFKNWARTFNIHFFQPDWKPESLAINHPENKPVF

>sp|Q92185|SIA8A\_HUMAN Alpha-N-acetylneuraminide alpha-2,8-sialyltransferase OS=Homo  
sapiens GN=ST8SIA1 PE=1 SV=1

MSPCGRARRQTSRGAMAVLAWKFPRTLPMGASALCVVLCWLYIFPVYRLPNEKEIVQG  
VLQQTAWRRNQTAARAFRKQMEDCCDPAHLFAMTKMNSPMGKSMWYDGEFLYSFTIDNS  
TYSLFPQATPFQLPLKKCAVVGNGGILKKSGCGRQIDEANFVMRCNLPLSSEYTKDVGS  
KSQLV TANPSIIRQRFQNLWSRKT FVDNMKIYNHSYIYMPAFSMKTGTESL RVYYTSL  
DVGANQTVLFANPNFLRSIGKFWKSRGIHAKRLSTGLFLVSAALGLCEEVAIYGFWPFSV  
NMHEQPISSHYYDNVLPFSGFHAMPEEFLQLWYLHKIGALRMQLDPCEDTSLQPTS

>sp|043173|SIA8C\_HUMAN Sia-alpha-2,3-Gal-beta-1,4-GlcNAc-R:alpha 2,8-sialyltransferase  
OS=Homo sapiens GN=ST8SIA3 PE=1 SV=3

MRNCKMARVASVLGLVMLSVALLILSLISYVSLKKENIFTTPKYASPGAPRMYMFHAGFR  
SQFALKFLDPSFVPITNSLTQELQEKP SKWKFNRTAFLHQRQEILQHVDVIKNFSLTKNS  
VRIGQLMHYDYSSHKYVFSISNNFRSLLPDVSPIMNKHYNICAVVGNSGILTGSQCGQEI  
DKSDFVFRCNFAPTEAFQRDVGRKTNLTTFNPSILEKYNNLLTIQDRNNFFLSLKKLDG  
AILWIPAFFFHSTATVTRTLVDFFVEHRGQLKVQLAWPGNIMQHVNRYWKNKHLSPKRLS  
TGILMYTLASAICEEIHLYGFWPFGFDPNTREDLPYHYDDKKGTKFTTKWQESHQLPAEF  
QLLYRMHGEGLTKLTL SHCA

>sp|Q9HAT2|SIAE\_HUMAN Sialate O-acetyltransferase OS=Homo sapiens GN=SIAE PE=1 SV=1

MVAPGLVLGLVPLILWADRSAGIGFRFASYINNDMVLQKEPAGAVIWGFGTPGATVTVT  
LRQGQETIMKKVTSVKAHSDTMVVLDPMPKGGPFVMAQQTLEKINFTLRVHVDVLFQDV  
WLCSGQSNMQMTVLQIFNATRELSNTAAYQSVRILSVSPIQAEQELEDLVAVDLQWSKPT  
SENLGHYFYKMSAVCWLFGRHLYDTLQYPIGLIASSWGGTPIEAWSSGRSLKACGVPKQ  
GSIPYDSVTGPSKHSVLWNAMIHPLCNMTLKGVVWYQGESNINYNTDLYNCTFPALIEDW  
RETFHRGSQGQTERFFPFGLVQLSSDLSKKSSDDGFPQIRWHQTADFGYVPNPKMPNTFM  
AVAMDLCDRDSPFGSIHPRDKQTVAYRLHLGARALAYGEKNLTFEGPLPEKIELLAHKGL  
LNLTYQQIQVQKDKNIFEISCCSDHRCKWLPASMNTVSTQSLTLAIDSCHGTVALRY  
AWTTWPCEYKQCPLYHPSSALPAPPFIAFITDQGPGHQSNVAK

>sp|Q9NTG7|SIR3\_HUMAN NAD-dependent protein deacetylase sirtuin-3, mitochondrial OS=Homo  
sapiens GN=SIRT3 PE=1 SV=2

MAFWGWRAAAALRLWGRVVERVEAGGGVGPFGACGCRLVLGGRDDVSAGLRGSHGARGE  
LDPARPLQRP RPPEVPRAFRRQPRAAAPSFSSIKGRRSISFSVGASSVVGSGGSSDK  
GKLSLQDVAELIRARACQRVVVMVGAGISTPSGIPDFRSPGSGLYSNLQQYDLPYPEAIF  
ELPFFFHNP KPFFTLAKELYPGNYKPNVTHYFLRLLHDKGLLLRLYTQNI DGLERVSGIP  
ASKLVEAHGT FASATCTVCQRPFGEDIRADV MADRVPRCPVCTGVVKPDIVFFGEPLPQ  
RFL LHVVDFPMADLLLILGTSLEVEPFASLTEAVRSSVPRLLINRDLVGPLAWHPRSRDV



AQLGDVVHGVESLVELLGWTEEMRDLVQRETGKLDGPDK

>sp|Q9NRC8|SIR7\_HUMAN NAD-dependent protein deacetylase sirtuin-7 OS=Homo sapiens  
GN=SIRT7 PE=1 SV=1

MAAGGLSRSEKAAERVRLREEQQRERLRQVSRI LRKAAAERSAEEGRLLAESADLVTE  
LQGRSRRREGLKRRQEEVCDDPEELRGKVRELASAVRNAKYLVVYTGAGISTAASIPDYR  
GPNGVWTLQKGRSVSAADLSEAEPTLTHMSITRLHEQKLVQHVVSQNC DGLHLRSGLP  
TAISELHGMYIEVCTSCVPNREYVRVFDVTERTALHRHQGTGRTCHKCGTQLRDTIVHFG  
ERGTLGQPLNWEAATEAASRADTILCLGSSSLKVLKKYPRLWCMTKPPSRRPKLYIVNLQW  
TPKDDWAALKLHGKCDDVMRLMAELGLEIPAYSRWQDPIFSLATPLRAGEEGSHSRKSL  
CRSREEAPPGDRGAPLSSAPILGGWFRGCTKRTKRKKVT

>sp|075563|SKAP2\_HUMAN Src kinase-associated phosphoprotein 2 OS=Homo sapiens GN=SKAP2  
PE=1 SV=1

MPNPSSTSSPYPLPEEIRNLLADVETFVADILKGENLSKKAKEKRESLIKIKDVKSIYL  
QEFQDKGDAEDGEEYDDPFAGPPDTISLASERYDKDDEAPSDGAQFPPIAAQDLPFVLKA  
GYLEKRRKDHSFLGFQWQKRWCSKTVFYFYGSDKDKQKQGEFAIDGYSVRMNNTLRKD  
GKKDCCFEISAPDKRIYQFTAASPKDAEEWVQQLKFVLQDMESDIIPEDYDERGELYDDV  
DHPLPISNPLTSSQPIDDEIYEELPEEEEDSAPVKVEEQRKMSQDSVHHTSGDKSTDYAN  
FYQGLWDCTGAFSDELSFKRGDVIYILSKEYNRYGWWVGEMKGAIGLVPKAYIMEMYDI

>sp|Q1XH10|SKDA1\_HUMAN SKI/DACH domain-containing protein 1 OS=Homo sapiens GN=SKIDA1  
PE=2 SV=1

MGLDKSGFEEVDGVRGLYLIIKKGQMFALSQVFTDLLKNIPRTTVHKRMDHLKVKKHHCD  
LEELRKLKAINSI AFHAAKCTLISREDVEALYTSCKTERVLKTKRRRVGRALATKAPPPE  
RAAAASPRPGFWKDKHQLWRGLSGAARPLPISAQSQRPGAAAAARPAHLPQIFSKYPGSH  
YPEIVRSPCKPPLNYETAPLQGNVAFPSDPAYFRSLLCSKHPAAAAAAAAAAAAAGAT  
CLERFHLVNGFCPPPHHHHHHHHHHHHHRAQPPQQSHHPHHHRPQPHLGSFPESCSS  
DSESSYSYDHAANDSFGSSLSSSSNSVSSEEEEEEGEEEEEEEEEGSGASDSSEVSS  
EEEDSSTESDSSSGSSQVSVQSIRFRRTSFCKPPSVQAQANFLYHLASAAAATKPAAFED  
AGRLPDLKSSVKAESPAEWNLQSWAPKASPVYCPASLGSCFAEIRNDRVSEITFPHSEIS  
NAVKRTDLTINCLAEGASSPSKTNNAFPQQRILREARKCLQTTPTTHCADNNTIAARFL  
NNDSSGAEANSEKYSKILHCPEFATDLPSSQTDPEVNAAGAAATKAENPCTDTGDKTLPF  
LHNKIKVEDSSANEYEPHLFTNKLKCECNDTKGEFYSVTESKEEDALLTTAKEGFACP  
EKETPSLNPLAQSQLSCTLGSPKPEDGEYKFGARVRKNYRTLVLGKRPVLQTPPVKPNL  
KSARSPRPTGKTETNEGTLDDFTVINRRKVASNVASAVKRPFHFMANFPCPPSLIIGRD  
GDLWPAYSLNTTKDSQTPHKAHPIWKWQLGGS AIPLP SHKFRKFNS

>sp|P12757|SKIL\_HUMAN Ski-like protein OS=Homo sapiens GN=SKIL PE=1 SV=2

MENLQTNFSLVQGSKKLNGMGDDGSPPAKKMITDIHANGKTINKVPTVKKEHLDDYGEA  
PVETDGEHVKRTCTSPETLHLNPSLKHTLAQFHLSSQSSLGGPAAFSARHSQESMSPTV  
FLPLPSPQVLPGLLIPSDSSTELTQTVLEGESISCFQVGGEKRLCLPQVLNSVLREFTL  
QQINTVCEDELYIYCSRCTSDQLHLKVLGILPFNAPSCGLITLTAQRLCNALLRPRTFP  
QNGSVLPKSSLAQLKETGSAFEVEHECLGKCQGLFAPQFYVQPDAPCIQCLECCGMFAP  
QTFVMHSHRSPDKRTCHWGFESAKWHCYLHVNQKYLGTPEEKKLKIILEEMKEKFSMRSG  
KRNQSKTDAPSGMELQSWYPVIKQEGDHVSQTHSFLHPSYLYMCDKVVAPNVSLTSAVS  
QSKELTKTEASKSISRQSEKAHSSGKLQKTVSYPDVSLEEQEKMDLKTSRELCSRLDASI  
SNNSTSKRKSESATCNLVRDINKVGIGLVAAASSPLLVKDVICEDDKGKIMEEVMRTYLK

QQEKLNLILQKKQQLQMEVKMLSSSKSMKELTEEQQNLQKELESQNEHAQRMEEFYVEQ  
KDLEKKLEQIMKQKCTCDSNLEKDKEAEYAGQLAELRQRLDHAEADRQELQDELQRQEREA  
RQKLEMMIKELKLQILKSSKTAKE

>sp|Q9UBY0|SL9A2\_HUMAN Sodium/hydrogen exchanger 2 OS=Homo sapiens GN=SLC9A2 PE=2 SV=1

MEPLGNWRSLRAPLPMLLLLLLQVAGPVGALAETLLNAPRAMGTSSSPSPASVAPGT  
TLFEESRLPVFTLDYPHVQIPFEITLWILLASLAKIGFHLVYHKLPTIVPESCLLIMVGLL  
LGGIIFGVDEKSPAMKTDVFFLYLLPPIVLDAGYFMPTRPFFENIGTIFWYAVVGTLWN  
SIGIGVSLFGICQIEAFGLSDITLLQNLLFGSLISAVDPVAVLAVFENIHVNEQLYLIVF  
GESLLNDAVTVVLNLFKSFCQMKTIETIDVFAGIANFFVVGIGVLIIGLGFIAAFTT  
RFTHNIRVIEPLFVFLYSYLSYITAEMFHLSGIMAITACAMTMNKYVEENVSQSYTTIK  
YFMKMLSSVSETLIFIFMGVSTVGKNHEWNWAFVCFTLAFCLMWALGVFVLTQVINRFR  
TIPLTFKDQFIIAYGGLRGAICFALVFLLPAAVFPKKLFITAAIVVIFFTVFILGITIR  
PLVEFLDVKRSNKKQAVSEEIYCRLFDHVKTGIEDVCGHWGHNFWRDKFKKFDDKYLK  
LLIRENQPKSSIVSLYKKEIKHAITEMAETGMISTVPTFASLNDCREEKIRKVTSETDE  
IRELLSRNLYQIRQRTLSYNRHSLTADTSERQAKEILIRRRHSLRESIRKDSSLNREHRA  
STSTSRYLSLPKNTKLPEKLQKRRTISADGNSSSDADAGTTVLNLQPRARRFLPEQFS  
KKSPQSYKMEWKNEVDVDSGRDMPSTPPTPHSREKGTQTSGLLQQPLLSKDQSGSEREDS  
LTEGIPPKPPPRLVWRASEPGSRKARFGSEKP

>sp|Q13291|SLAF1\_HUMAN Signaling lymphocytic activation molecule OS=Homo sapiens  
GN=SLAMF1 PE=1 SV=1

MDPKGLLSLTFVLFLSLAFGASYGTGGRMMNCPKILRQLGSKVLLPLTYERINKSMNKSI  
HIVVTMAKSLENSVENKIVSLDPSEAGPPRYLGDYKFYLENLTGIRESRKEDEGWYLM  
TLEKNVSVQRFLQLRLYEQVSTPEIKVLNKTQENGCTLILGCTVEKGDHVAYSWSEKA  
GTHPLNPANSSHLLSLTLGPQHADNIYICTVSNPISNNSQTFSPWPGCRTDPSETKPWAV  
YAGLLGGVIMILIMVILQLRRRGKTNHYQTTVEKKSLTIYAQVQKPGPLQKKLDSFPAQ  
DPCTTIYVAATEPVPESVQETNSITVYASVTLPE

>sp|Q9NQ25|SLAF7\_HUMAN SLAM family member 7 OS=Homo sapiens GN=SLAMF7 PE=1 SV=1

MAGSPTCLTLIYILWQLTGSAASGPVKELVGSVGGAVTFPLKSKVKQVDSIVWTFNTTPL  
VTIQPEGGTIIIVTQNRNRERVDFFPDGGYSLKLSKLKKNDSGIYYVGIYSSSLQQPSTQEY  
VLHVYEHLSKPKVTMGLQSNKNGTCVTNLTCMEHGEEDVIYTWKALGQAANESHNGSIL  
PISWRWGESDMTFICVARNPVSRNFSSPILARKLCEGAADDPDSSMVLCLLLVPLLSL  
FVLGLFLWFLKRERQEEYIEKKRVDICRETPNICPHSGENTYDITPHNTRTILKEDPA  
NTVYSTVEIPKKMENPHSLTMPDTPRLFAYENVI

>sp|Q8ND83|SLAI1\_HUMAN SLAIN motif-containing protein 1 OS=Homo sapiens GN=SLAIN1 PE=1  
SV=3

MMAEQVKCASAGVSSGAGSGPVVNAELEVKKLQELVRKLEKQNEQLRSRAASAAAAPHLL  
LLPPPPPAAPPAAGLQPLGPRSPPAATATAAASGGLGPAFPGTFCLPSPAPSLLCSLAQ  
PEAPFVYFKPAAGFFGAGGGGPEPGGAGTPPGAAAAPSPPTLLDEVELLDLESVAAR  
DEDDYTWLYIGSSKTFTSSEKSLTPLQWCRHVLDNPTPEMAARRSLCFRLEQGYTSRGS  
PLSPQSSIDSELSTSELEDDISMGYKLQDLTDVQIMARLQEEESLRQDYASTSASVSRHS  
SSVSLSSGKKGTCSQDQYDQYSLEDEEEFDHLPPPQPRLPRCSPFQRGIPHSQTFSSIRE  
CRRSPSSQYFPSNNYQQQYYSPQAQTPDQQPNRTNGDKLRRSMPNLARMPSTTAISSNI  
SSPVTVRNSQSFDSLSHGAGNGISRIQSCIPSPGQLQHRVHSVGHFPVSIRQPLKATAYV  
SPTVQGGSSNMPLSNGLQLYSNTGIPTPNKAAASGIMGRSALPRPSLAINGSNLPRSKIAQ

PVRSFLQPPKPLSSLTLRDGNWRDGCY

>sp|Q8IX21|SLF2\_HUMAN SMC5-SMC6 complex localization factor protein 2 OS=Homo sapiens  
GN=SLF2 PE=1 SV=2

MTRRCMPARPGFPSSPAPGSSPPRCHLRPGSTAHAAAGKRTESPGDRKQSIIDFFKPASK  
QDRHMLDSPQKSNIKYGGSRSLITGTEQFERKLSSPKESKPKRVPPEKSPIIEAFMKGVK  
EHHEDHGIESRRPCLSLASKYLAKGTNIYVPSSYHLPKEMKSLKKHRSPEERRKSLFIH  
ENNEKNDRDRGKTNADSKQTVAEADIFNNSRSLSSRSLSRHHPEESPLGAKFQLSL  
ASYCRERELKRLRKEQMEQRINSENSFSEASSLSLKSSIERKYKPRQEQRKQNDIIPGKN  
NLSNVENGHLRKRSSSDSWEPTSAGSKQNKFEKRRKNSVSDSLKSTRESMIPKARESF  
LEKRPDGP HQKEFKIHIALKTPGDVLRLEDISKEPSDETGDSSAGLAPSNSGNSGHHST  
RNSDQIQVAGTKETKMQKPHLPLSQEKSAIKKASNLQKNKTASSTTKEKETKLPLLSRVP  
SAGSSLVPLNAKNCALPVSKDKERSSSKECSGHSTESTKHKEHKAKTNKADSNVSSGKI  
SGGPLRSEYGTPTKSPPAALEVVP CIPSPAAPSDKAPSEGESSGNSNAGSSALKRKLRGD  
FDSDEESLGYNLDSDEEEETLSLEEIMALNFNQTPAATGKPPALSKGLRSQSSDYTGHV  
HPGTYTNTLERLVKEMEDTQRLDELQKQLQEDIRQGRGIKSPIRIGEEDSTDDEDGLLEE  
HKEFLKKFSVTIDAIPDHHPGEEIFNFLNSGKIFNQYTLDLRDSGFIGQSAVEKLILKSG  
KTDQIFLTTQGFLTSAYHYVQCPVPVLKWLFRMMSVHTDCIVSVQILSTLMEITIRNDTF  
SDSPVWPWIPSLSDVAAVFFNMGIDFRSLFPLENLQPDFNEDYLVSETQTTSRGKESED  
SYKPIFSTLPETNILNVVKFLGLCTSIHPEGYQDREIMLLILMLFKMSLEKQLKQIPLVD  
FQSLINLMKNIRDWNTKVPCLGINELSSHPhnllwlvqlvpnwtsrgrqlrqclslv  
IISKLLDEKHEDVPNASNLQVSVLHRYLVQMKPSDLLKKMVLKKAEQPDGIIDDSLHLE  
LEKQAYYLTYILLHLVGEVSCSHSFSSGQRKH FVLLCGALEKHVKCDIREDARLFYRTKV  
KDLVARIHGKWQEIIQNCRPTQGQLHDFWVPDS

>sp|Q8IY18|SMC5\_HUMAN Structural maintenance of chromosomes protein 5 OS=Homo sapiens  
GN=SMC5 PE=1 SV=2

MATPSKKTSTPSPQPSKRALPRDPSSEVP SKRKNSAPQLPLLQSSGPFVEGSIVRISMEN  
FLTYDICEVSPGPHLNMIVGANGTGKSSIVCAICLGLAGKPAFMGRADKVGFFVKRGCSR  
GMVEIELFRASGNLVITREIDVAKNQSFWFINKKSTTKIVEEKVAALNIQVGNLCQFLP  
QDKVGEFAKLSKIELLEATEKSIGPPEMHKYHCELKNLREKEKQLETSCKEKTEYLQKMV  
QRNERYKQDVERFYERKRHLDLIEMLEAKRPWVEYENVRQEYEEVKLVDRVKEEVRKLK  
EGQIPVTCRIEEMENERHNLEARIKEKATDIKEASQKCKQKQDVIERKDKHIEELQQALI  
VKQNEELDQRRIQNTKMIEDLQNELKTTENCENLQPQIDAITNDLRRIQDEKALCEGE  
IIDKRRERETLEKEKSVDDHIVRFDNLMNQKEDKLQRFRDITYDAVLWRNNRDKFKQR  
VCEPIMLTINMKDNKNAKYIENHIPSNDLRAFVFESQEDMEVFLKEVRDNKKLRVNAVIA  
PKSSYADKAPSRSLNELKQYGFFSYLRELFADPDPMVSYLCCQYHIHEVPVGTEKTRERI  
ERVIQETRLKQIYTAEKYVVKTSFYSNKVISSNTSLKVAQFLTVTVdleqrrhleeqlk  
EIHRKLQAVDSGLIALRETSKHLEHKDNELRQKKKELLERKTKKRQLEQKISSKLGSLKL  
MEQDTCNLEEEERKASTKIKEINVQAKLVTELTNLIKICTSLHIQKVDLILQNTTVISE  
KNKLESDYMAASSQLRLTEQHFIELDENRQRLQKCKELMKRARQVCNLGAEQTL PQEYQ  
TQVPTIPNGHNSSLPMVFQDLNPTLDEIDALLTEERSRASCFTGLNPTIVQEYTKREEEI  
EQLTEELKGGKVELDQYRENISQVKERWLNPLKELVEKINEKFSNFFSSMQCAGEVDLHT  
ENEEDYDKYGIRIRVKFRSSTQLHELTPHHQSGGERSVSTMLYLMALQELNRCPPFRVDE  
INQGMDPINERRVFMVVNTACKENTSQYFFITPKLLQNL PYSEKMTVLFVYNGPHMLEP  
NTWNLKAFQRRRRRITFTQPS

>sp|A6NHR9|SMHD1\_HUMAN Structural maintenance of chromosomes flexible hinge domain-containing protein 1 OS=Homo sapiens GN=SMCHD1 PE=1 SV=2

MAAADGGGPGGASVGTEEDGGGVGHRTVYLFDRREKESELGDRPLQVGERSDYAGFRACV  
CQTLGISPEEKFVITTTSRKEITCDNFDENVKDGVTLYLLQSVNQLLL TATKERIDFLPH  
YDTLVKSGMYEYYASEGQNPLPFALAELIDNSLSATSRNIGVRRRIQIKLLFDETQGKPAV  
AVIDNGRGMTSKQLNNWAVYRLSKFTRQGD FESDHSGYVRPVPVPRSLNSDISYFGVGGK  
QAVFFVGQSARMISKPADSQDVHELVL SKEDFEKKEKNKEAIYSGYIRNRKPSDSVHITN  
DDERFLHHLII EEKEKDSFTAVVITGVQPEHIQYLKNYFHLWTRQLAHYHYIYHGPKN  
EIRTSKEVEFPNNIDIEISMFEKGKVPKIVNLREIQDDMQTLYVNTAADSFEFKAHVEGD  
GVVEGIIRYHPFLYDRETYPDPCFPSKLKDEDEDDDCFILEKAARGKRPIFECFWNGRL  
IPYTSVEDFDWCTPPKKRGLAPIECYNRISGALFTNDKFQVSTNKLTFMDLELKLKDKNT  
LFTRILNGQEQRMKIDREFALWLKDCHEKYDKQIKFTLFGKVITRPDLPSKKQGPWATYA  
AIEWDGKIYKAGQLVKTIKTLPLFYGSIVRFFLYGDHDGEVYATGGEVQIAMEPQALYDE  
VRTVPIAKLDRVAEAKVKYVEDEMARLPDRLSVTWPEGDELLPNEVRPAGTPIGALRI  
EILNKKGEAMQKLPGTSHGGSKKLLVELKVILHSSSGNKEIISHISQHGKWPYWFKKME  
NIQKLGNYTLKLQVVLNESNADTYAGRPLPSKAIKFSVKEGKPEKFSFGLLDLPFRVGVP  
FNIPLEFQDEFGHTSQLVTDIQPVLEASGLSLHYEEITKGPNCVIRGVTAKGPVNSCQ GK  
NYNLKVTLPLGKEDSQILKIRLLPGHPRRLKVKPDSEILVIENGTAFFQVEVLDESDNI  
TAQPKLIVHCKFSGAPNLPVYVVD CSSSGTSILTGS AIQVQNIKKDQTLKARIEIP SCKD  
VAPVEKTIKLLPSSHVARLQIFSVEGQKAIQIKHQDEVNWIAGDIMHNLIFQMYDEGERE  
INITSALAEKIKVNWTP EINKHELLQGLLPDVQVPTS VKDMRYCQVSFQDDHVSLESAFT  
VRPLPDEPKHLKCEMKGKTVQMQLQGEVVIITDQYGNQIQAFSPSSLSLSIAGVG  
LDSSNLKTTFQENTQSISVRG IKFIPGPPGNKDLCTWREFSDFIRVQLISGPPAKLLLI  
DWPELKESIPVINGRDLQNPIIVQLCDQWDNPAPVQHVKISLTKASNLKLMPSNQ QHKTD  
EKGRANLGVFSVFAPRGEHTLVKAIYNKSIIEGPIIKLMILPDPEKPVRLNVKYDKDAS  
FLAGGLFTDFMISVISEDSSIKNINPARISM KMWKLSTSGNRPPANAETFSCNKIKDND  
KEDGCFYFRDKVIPNKVGTYCIQFGFMMDKTNILNSEQVIVEVLPNQPVKLVPKIKPPTP  
AVSNVRSVASRTLVRDLHLSITDDYDNHTGIDLVGTI IATIKSNEEDTDTPLFIGKVRT  
LEFPFVNGSAEIMSLVLAESSPGRDSTEYFIVFEPRLPLLSRTLEPYILPFMFYNDVKKQ  
QQMAALTKEKDQLSQSIVMYKSLFEASQQLLNEMKCQVEEARLKEAQLRNELKIHNI DIP  
TTQVPHIEALLKRKLSEQEELKKKPRRSCTLPNYTKSGDVLGKIAHLAQIEDDRAAMV  
ISWHLASDMDCVVTLTDAARRIYDETQGRQQVLP LDSIYKKTLPDWKRSLPHFRNGKLY  
FKPIGDPVFARDLLTFPDNVEHCETVFGMLLGDTIILDNLDAANHRYKEVVKITHCPTLL  
TRDGDRIRSNKGFGGLQNKAPPMDKLRGMVFGAPVPKQCLILGEQIDLLQQYRS AVCKLD  
SVNKDLNSQLEYLRTPDMRKKKQELDEHEKNLKLIEEKLGMTPIRKCNDSLRHSPKVETT  
DCPVPPKRMREATRQNRIITKTDV

>sp|Q9H4F8|SMOC1\_HUMAN SPARC-related modular calcium-binding protein 1 OS=Homo sapiens GN=SMOC1 PE=1 SV=1

MLPARCARLLTPHLLLVVLVQLSPARGHRTTGPRFLISDRDPQCNLHCSRTQPKPICASDG  
RSYESMCEYQRAKCRDPTLGVVHRGRCKDAGQSKRLERAQALEQAKKPQEAVFVPECGE  
DGSFTQVQCHTYTGYCWCVTPDGKPISGSSVQNKTPVCSG SVTDKPLSQGNSGRKDDGSK  
PTPTMETQPVFDGDEITAPTLVIKHLVIKDSKLNNTNIRNSEKVYSCDQERQSALEEAQQ  
NPREGIUIPECAPGGLYKPVQCHQSTGYCWCVLVD TGRPLPGTSTRYVMPSCESDARAKT  
TEADDPFKDRELPGCPEGKKMEFITSLLDALTDMVQA INSAAPTGGGRFSEPDP SHTLE

ERVVHWYFSQLDSNSSNDINKREMKPFKRYVKKKAKPKKCARRFTDYCDLNKDKVISLPE  
LKGCLGVSKEGRLV

>sp|Q9NWM0|SMOX\_HUMAN Spermine oxidase OS=Homo sapiens GN=SMOX PE=1 SV=1

MQSCSSGDSADDPLSRGLRRRGQPRVVIGAGLAGLAAAKALLEQGFTDVTVLEASSHI  
GGRVQSVKLGHATFELGATWIGHSHGNPIYHLAEANGLLEETTDGERSVGRISLYSKNGV  
ACYLTNHGRRIPKDVVEEFSDLYNEVYNLTQEFFRHDKPVNAESQNSVGVTREEVRNRI  
RNDPDDPEATKRLKLAMIQQYLKVESCESSHSMDEVSLSAFGEWTEIPGAHHIIPSGFM  
RVVELLAEGIPAHVIQLGKPVRCIHWDQASARPRGPEIEPRGEGDHNHDTGEGGQGGEED  
RGGRWDEDEQWSVVVECEDCELIPADHVIVTVSLGVLKRQYTSFFRPLPTEKVAAIHLR  
GIGTTDKIFLEFEEFPWGPECNSLQFVWEDEAESHTLTYPPELWYRKICGFDVLYPPER  
YGHVLSGWICGEEALVMEKCDDEAVAEICTEMLRQFTGNPNIPKPRILRSWGSNPYFRG  
SYSYTVQVSSGADVEKLAKPLPYTESSKTAPMQVLFSGEATHRKYYSTTHGALLSGQREA  
ARLIEMYRDLFQQGT

>sp|Q9UHP9|SMPX\_HUMAN Small muscular protein OS=Homo sapiens GN=SMPX PE=2 SV=3

MNMSKQPVSNVRAIQANINIPMGAFRPGAGQPPRRKECTPEVEEGVPPTSDEEKKIPGA  
KKLPGPAVNLSEIQNIKSELKYVPKAEQ

>sp|Q92922|SMRC1\_HUMAN SWI/SNF complex subunit SMARCC1 OS=Homo sapiens GN=SMARCC1 PE=1  
SV=3

MAAAAGGGPGTAVGATGSGIAAAAAGLAVYRRKDGGPATKFWESPETVSQLDSVRVWL  
GKHYKYYHADAPNTKTLAGLVVQLLQFQEDAFGKHVTNPAFTKLPKCFMDFKAGGALCH  
ILGAAYKYKNEQGRRFDLQNSRMDRNVEMFMNIEKTLVQNNCLTRPNIYLIPDIDLKL  
ANKLKDI IKRHQGTFTDEKSKASHHIYPYSSSQDDEEWLRPVMRKEKQVLVHWGFYPDSY  
DTWVHSNDVDAEIEDPPIPEKPWKVHVWILDITDIFNEWMNEEDYEVDENRKPVSFRQRI  
STKNEEPVRSERRDRKASANARKRHSPSPPPPTPTESRKSGKKGQASLYGKRRSQKE  
EDEQEDLTKDMEDTPVPNIEEVVLPKNVNLKKDSENTPVKGGTVADLDEQDEETVTAGG  
KEDEPAKGDQSRVDLGEDNVTEQTNHIIIPSYASWFDYNCIHVIERRALPEFFNGKNK  
SKTPEIYLAYRNFIDTYRLNPQEYLSTACRRNLTDGVCAMRVHAFLEQWGLVNYQVD  
PESRPMAMGPPPTPHFNLADTPSGLVPLHLRSPQVPAAQQMLNFPEKNKEKPVDLQNF  
GLRTDIYSKKTLAGSKGASAGREWTEQETLLLEALEMYKDDWNKVSEHVGSRQTDECILH  
FLRLPIEDPYLENSDASLGPLAYQPVVFSQSGNPVMSTVAFLASVVDPRVASAAKAALE  
EFSRVREEVPLELVEAHVKVQEAARASGKVDPTYGLESCIACTGPDPEKLEGAEEEK  
MEADPDGQQPEKAENKVENETDEGDKAQDGENEKNSEKEQDSEVSEDTKSEEKETEENKE  
LTDCKERESDTGKKKVEHEISEGNVATAAAAAASAATKAKHLAAVEERKIKSLVALLV  
ETQMKKLEIKLRHFEELETIMDREKEALEQQRQQLLTERQNFHMEQLKYAELRARQQMEQ  
QQHGQNPQQAHQHSGGGLAPLGAAGHPGMMPHQQPPPYPLMHMQMPPPHPPQPGQIPGP  
GSMMPGQHMPGRMIPTVAANIHPSSGSGPTPPGMPMPGNILGPRVPLTAPNGMYPPPPQQ  
QPPPPPPADGVPPPPAPGPPASAAP

>sp|Q96GM5|SMRD1\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily D member 1 OS=Homo sapiens GN=SMARCD1 PE=1 SV=2

MAARAGFQSVAPSGGAGASGGAGAAAAALGPGGTPGPPVRMGAPGQGLYRSPMPGAAYPR  
PGMLPGSRMTPQGPGSMGPPGYGGNPSVRPGLAQSGMDQSRKRPAPQQIQQVQQQAVQNRN  
HNAAAAKMKADKILPQRIRELVPESQAYMDLLAFERKLDQTIMRKRLDIQEALKRPIKQKR  
KLRIFISNTFNPAKSDAEDGEGTVASWELRVEGRLLDSALSKYDATKQKRKFSSFFKSL  
VIELDKDLYGPDNHLVEWHRTATTQETDGFQVKRPGDVNVRCTVLLMLDYQPPQFKLDPR

LARLLGIHTQTRPVIIQALWQYIKTHKLQDPHEREFVICDKYLQQIFESQRMKFSEIPQR  
LHALLMPPEPIIINHVISVDPNDQKKTACYDIDVEVDDLTKTQMNSFLLSTASQQEIATL  
DNKIHETIETINQLKTQREFMLSFARDPQGFINDWLQSQCRDLKTMDDVVGNPPEERRAE  
FYFQPWAQEAVCRYFYSKVQRRQEQLEQALGIRNT

>sp|Q6STE5|SMRD3\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily D member 3 OS=Homo sapiens GN=SMARCD3 PE=1 SV=1

MAADEVAGGARKATKSKLFEFLVHGVPRGMPSPGARMHQGAPMGPPGSPYMGSPAVRPGL  
APAGMEPARKRAAPPPGQSQSQSQGPVPTAPARSRSKRRKMADKILPQRIRELVPEEQ  
AYMDLLAFERKLDQTIMRKRVDIQEALKRPMKQKRKLRLYISNTFNPAPDAEDSDGSIA  
SWELRVEGKLDDPSKQKRKFSSFFKSLVIELDKDLYGPDNHLVEWHRTPTTQETDGFQV  
KRPGLSVRCTLMLLDYQPPQFKLDPRLARLLGLHTQSRSAIVQALWQYVKTNRQLQDSH  
DKEYINGDKYFQQIFDCPRLKFSEIPQRLTALLLPDPPIVINHVISVDPDQKKTACYDI  
DVEVEEPLKGQMSFLLSTANQQEISALDSKIHETIESINQLKIQRDFMLSFSRDPKGYV  
QDLLRSQSRDLKVMDDVAGNPPEERRAEFYHQPWSQEAVSRYFYCKIQRRQEQLEQSLVV  
RNT

>sp|Q53HV7|SMUG1\_HUMAN Single-strand selective monofunctional uracil DNA glycosylase  
OS=Homo sapiens GN=SMUG1 PE=1 SV=2

MPQAFLLGSIHEPAGALMEPPQPCGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPVEY  
AWEPHRNYVTRYCQGPKEVFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVGPVLTTPQE  
HPKRPVLGLECPQSEVSGARFWGFFRNLCGQPEVFFHHCFVHNLCPLLFLAPSGRNLT  
ELPAKQREQLLGICDAALCRQVQLLVGLVGVRLAEQRRARALAGLMPEVQVEGLLHP  
SPRNPQANKGWEAVAKERLNLGLPLLLK

>sp|Q7KZF4|SND1\_HUMAN Staphylococcal nuclease domain-containing protein 1 OS=Homo sapiens  
GN=SND1 PE=1 SV=1

MASSAQSGSGSGPVPVTVQRGIIKMLVSGCAIIVRGQPRGGPPPERQINLSNIRAGNLA  
RRAAATQPDADKTPDEPWAFPAAREFLRKKLIGKEVCFTIENKTPQGREYGMIIYLKDTNG  
ENIAESLVAEGLATRREGMRANNPEQNRNSECEEQAKAAKGMWSENGSHTIRDLKYTI  
ENPRHFVDSHHQKPVNAIEHVRDGSVVRALLLPDYLLVTVMLSGIKCPTFRREADGSET  
PEPFAAEAKFFTESRLQRDVQIILESCHNQNILGTILHPNGNITELLKEGFARCDWS  
IAVYTRGAEKLRAAERFAKERRLRIWRDYVAPTANLDQKDKQFVAKVMQVLNADAIIVKL  
NSGDYKTIHLSSIRPPRLEGENTQDKNKKLRPLYDIPYMFAREFLRKKLIGKKVNTVD  
YIRPASPATETVPAFERTCATVTIGGINIAEALVSKGLATVIRYRQDDQDSSHYDELL  
AAEARAIKNGKGLHSHKEVPPIHRVADISGDTQKAKQFLPFLQRAGRSEAVVEYVFSGSRL  
KLYLPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEETLFTKELVLQREVEVEVES  
MDKAGNFIGWLHIDGANLSVLLVEHALSKVHFTAERSSYYKSLLSAEEAAKQKKEKVWAH  
YEEQPVEEVMPVLEEKERSASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIAS  
HPPVEGSYAPRRGEFCIAKFVDGEWYRARVEKVESPAKIHVFYIDYGNREVLPSTRLGTL  
SPAFASTRVLPAAQTEYAFAFIQVPQDDDARTDAVDSVVRDIQNTQCLLNVEHLSAGCPHV  
TLQFADSKGDVGLGLVKEGLMVEVRKEKQFQKVITEYLNQESAKSARLNLWRYGDFRA  
DDADEFGYSR

>sp|Q8TER0|SNED1\_HUMAN Sushi, nidogen and EGF-like domain-containing protein 1 OS=Homo  
sapiens GN=SNED1 PE=2 SV=2

MRHGVAWALLVAAALGLGARGVRGAVALADFYPPGAERGAVTQKQDDGGSGLRPLSVPF  
PFFGAEHSGLYVNNNGIISFLKEVSQFTPVAFPIAKDRCVVAFWADVNNRRAGDVYYRE

ATDPAMLRATEDVRHYFPELLDFNATWVFVATWYRVTFGGSSSPVNTFQTVLITDGK  
LSFTIFNYESIVWTTGTHASSGGNATGLGGIAAQAGFNAGDGQRYFSIPGSRTADMAEVE  
TTNVGVPGRWAFRIDDAQVRVGGCGHTTSVCLALRPCLNGGKCIDDCVTGNPSYTCSCS  
SGFTGRRCHLDVNECASQPCQNGGTCTHGINSFRCQCPAGFGGPTCETAQSPCDTKECQH  
GGQCQVENGSAVCVCQAGYTGAACEMDVDDCSPDPCLNGGSCVDLVGNYTCLCAEPFKGL  
RCETGDHPVPDACLAPCHNGGTCVDADQGYVCECPEGFMGLDCRERVDDCECRNGGRC  
LGANTTLCQCPLGFFGLLCEFEITAMPCNMNTQCPDGGYCMHGGSYLCVCHTDHNASHS  
LPSPCSDPCFNGGSCDAHDDSYTCECPRGFHGHCEKARPHLCSSGPCRNGGTCKEAGG  
EYHCSPYRFTGRHCEIGKPDSCASGPGCHNGGTCTFHYIGYKCDCPPGFSGRHCEIAPSP  
CFRSPCVNGGTCEDRDTDFCHCQAGYMGRRCQAEVDCGPPEEVKHATLRFNTRLGAVA  
LYACDRGYSLSAPSRIRVCQPHGVWSEPPQCLEIDECRSQPCLHGGSCQDRVAGYLCCLCS  
TGYEGAHCELERDECRAHPCRNGGSCRNLPGAYVCRCPAGFVGVCETEVDACDSSPCQH  
GGRCESGGGAYLCVCPESFFGYHCETVSDPCFSSPCGGRGYCLASNGSHSCTCKVGYTGE  
DCAKELFPPTALKMERVEESGVSISWNPPNGPAARQMLDGYAVTYVSSDGSYRRTDFVDR  
TRSSHQLQALAAGRAYNISVFSVKRNSNNKNDISRPVLLARTPRPVEGFVNTVNTAST  
ISVQWALHRIRHATVSGVRVSIHPEALRDQATDVDRSVDRFTFRALLPGKRYTIQLTTL  
SGLRGEHPTESLATAPTHVWTRPLPPANLTAARVTATSAHVVDAPTPGSLLEAYVINV  
TTSQSTKSRYVPNGKLASYTVRDLLPGRRYQLSVIAVQSTELGPQHSEPAHLYIITS  
PRDGADRRWHQGGHPRVLKNRPPPARLPELRLNDHSAPETPTQPPRFSELVDGRGRVSARF  
GGSPSKAATVRSQPTASALENMEAPKRVSLALQLPEHGSKDIGNVPGNCSENPCQNGG  
TCVPGADAHSCDCGPGFKGRRCELACIKVSRPCTRLFSETKAFPVWEGGVCHHVYKRVR  
VHQDICFKESCESTSLKKTTPNRKQSKSQTTLEKS

>sp|P56693|SOX10\_HUMAN Transcription factor SOX-10 OS=Homo sapiens GN=SOX10 PE=1 SV=1  
MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSLRASPGPGELGKVKKEQQD  
GEADDDKFPVCIREAVSQVLSGYDWTLVPMMPVRVNGASKSKPHVKRPMNAFMVWAQAARR  
KLADQYPHLHNAELSKTLGKLWRLNESDKRPFIEEAERLRMQHKKDHPDYKYQPRRRKN  
GKAAQGEAECPGGEAEQGGTAAIQAHYKSAHLDRHPGEGSPMSDGNPEHPSGQSHGPPT  
PPTTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDVAELDQY  
LPPNGHPGHVSSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGVDAKAQVKTET  
AGPQGPPHYTDQPSTSQIAYTSLSLPHYGSAFPISISRPQFDYSDHQPSGPYYGHSGQASG  
LYSAFSYMGPSQRPLYTAISDPSPSGPQSHSPHWEQPVYTTLSRP

>sp|Q9UN79|SOX13\_HUMAN Transcription factor SOX-13 OS=Homo sapiens GN=SOX13 PE=1 SV=3  
MSMRSPISAQLALDGVGTMVNCTIKSEEKKEPCHEAPQGSATAAEPQPGDPARASQDSAD  
PQAPAQGNFRGSWDCSSPEGNGSPEPKRPGVSEAAAGSGQEKLDFNRNLKEVVPAIEKLLS  
SDWKERFLGRNSMEAKDVKGTEQSLAEKELQLLVMIHQLSTLRDQLLTAHSEQKNMAAML  
FEKQQQMELARQQEQIAKQQQLIQQHKINLLQQQIQQVNMPLYVMIPAFPPSHQPLP  
VTPDSQLALPIQIPCKPVEYPLQLLHSPAPVVKRPGAMATHHPLQEPSQPLNLTAKPK  
APELPTSSSPSLKMSSCVPRPPSHGGPTRDLQSSPPSLPLGFLGEGDAVTKAIQDARQL  
LHSHSGALDGSPNTPFRKDLISLDSSPAKERLEDGCVHPLEEAMLSCDMDGSRHFPESRN  
SSHIKRPMNAFMVWAKDERRKILQAFPMHNSSISKILGSRWKSMTNQEKQPYEEQARL  
SRQHLEKYPDYKYKPRPKRTCIVEGKRLRVGEYKALMRTRRQDARQSYVIPPQAGQVQMS  
SSDVLYPRAAGMPLAQPLVEHYVPRSLDPNMPVIVNTCSLREEEGTDDRHSVADGEMYR  
YSEDEDSEGEESDGLVVLTD

>sp|P48431|SOX2\_HUMAN Transcription factor SOX-2 OS=Homo sapiens GN=SOX2 PE=1 SV=1

MYNMMETELKPPGPQQTSGGGGNGSTAAAAGGNQKNSPDRVKRPMNAFMVWSRGQRRKMA  
QENPKMHNSEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHPDYKYRPRRKTTLTLM  
KKDKYTLPGLLAPGGNSMASGVGVGAGLGAGVNQRMSYAHMNGWSNGSYSMMQDQLGY  
PQHPGLNAHGAAQMMPMHRYDVSALQYNSMTSSQTYMNGSPTYSMSYSQQGTPGMALGSM  
GSVVKSEASSPPVVTSSSHSRAPCQAGDLRDMISMYLPGAEVPEPAAPSRLHMSQHYQS  
GPVPGTAINGTLPLSHM

>sp|Q9HB58|SP110\_HUMAN Sp110 nuclear body protein OS=Homo sapiens GN=SP110 PE=1 SV=5

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VSRVHNILTQLERTFNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYEWQSRDTPIL  
LEAPTGLAEGSSLHTPLALPPPQPPQSPCSPCAPRVSEPGTSSQQSDEILSESPSPSDPV  
LPLPALIQEGRSTSVTNDKLTSMNAEEDSEEMPSLLTSTVQVASDNLIPQIRKEDPQE  
MPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRRCIWPSTPKRRHKKKSLPGG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNE  
GKRSQKTPSTPRRVTVGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCA  
RKSRLKEKKKEKDICSSSKRRFQKNIHRRGKPKSDTVDFHCSKLPVTCGEAKGILYKKKM  
KHGSSVKCIRNEDGTWLTPTNEFEVEGKGRNAKNWKRNI RCEGMTLGELLKRKNSDECEVC  
CQGGQLLCCGTCPRVFHEDCHIPPVEAKRMLWSCTFCMRKRSSGSQQCHHVSKTLERQMQ  
PQDQLIRDYGEFPQEA MWLDL VKERLITEMYTVAVFVRDMRLMFRNHKTFYKASDFGQVG  
LDLEAEFEKDLKDVLFHEANDGGFWTLP

>sp|Q99865|SPI2A\_HUMAN Spindlin-2A OS=Homo sapiens GN=SPIN2A PE=1 SV=3

MKTPNAQEAEGQQTRAAAGRATGSANMTKKKVSQKKQGRGPSSQPRRNIVGCRISHGWKE  
GDEPITQWKGTVLDQVPINPSLYLVKYDGDICVYGLELHRDERVLSKILSDRVASSHIS  
DANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQAPIMKAWFYITYEKDPVLYMYQLLDD  
YKEGDLRIMPESSESPPTEREPPGVVDGLIGKHVEYTKEDGSKRIGMVIHQVETKPSVYF  
IKFDDDFHIYVYDLVKKS

>sp|Q08AE8|SPIR1\_HUMAN Protein spire homolog 1 OS=Homo sapiens GN=SPIRE1 PE=1 SV=3

MAQAAGPAGGGEPRTEAVGGEGPREPGAAGGAAGGSRDALSLLEEILRLYNQPINEEQAWA  
VCYQCCGSLRAAARRRQPRHRVRSAAQIRVWRDGAVTLAPAADDAGEPPPVAGKLGYSQC  
METEVIESLGIIYKALDYGLKENEERELSPPLEQLIDHMANTVEADGSNDEGYEAAEEG  
LGDEDEKRKISAIRSYRDMKLCAAHLP TESDAPNHQAVCRALFAETMELHTFLTKIKS  
AKENLKKIQEMEKSDESSTLEELKNADWARFWVQVMRDLRNGVKLKKVQERQYNPLPIE  
YQLTPYEMLMDDIRCKRYTLRKVMVNGDIPRLKKS AHEIILDFIRSRPPLNPVSARKLK  
PTPPRPSLHERILEEIKAEKLRPVSP EIRRSRLAMRPLSMSYSFDLSDVTTPESTKN  
LVESMVNGGLTSQTKENGLSTSQQVPAQRKKLLRAPTLAELDSSESEEEETLHKSTSSSS  
VSPSFPEEPVLEAVSTRKKPKFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSR  
QSSRSLEEF CYPVECLALTVEEVMHIRQVLVKA ELEKYQQYKDIYTALKKGKLCFCRTR  
RFSFFTWSYTCQFCKRPVCSQCCKMRLPSKPYSTLP I FSLGPSALQRGESSMRSEKPST  
AHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISSSRRSL  
VLANKRARLKRKTQSFYMSSPGPSEYCPSERTISEI

>sp|Q9NVD3|SETD4\_HUMAN SET domain-containing protein 4 OS=Homo sapiens GN=SETD4 PE=2 SV=1

MQKGKGRTSRIRRRKLCGSSES RGVNESHKSEFIELRKWLKARKFQDSNLAPACFPGTGR  
GLMSQTSLEGEQMIISLPESCLLTDTVIRSYLGAYITKWKPPSPLLALCTFLVSEKHA  
GHRSLWKPYLEILPKAYTCPVCLEPEVVNLLPKSLKAKAEQRAHVQEFASSRDFSSSL  
QPLFAEAVDSIFSYSALLWAWCTVNTRAVYLRPRQRECLSAEPDTCALAPYDLLNHSPH



VQVKAAFNEETHSYEIRTTSRWRKHEEVFICYGPHDNQRLFLEYGFVSVHNPHACVYVSR  
EILVKYLPSTDKQMDKKISILKDHGYIENLTFGWDGPSWRLLTALKLLCLEAEKFTCWKK  
VLLGEVISDTNEKTSLDIAQKICYFYIEETNAVLQKVSHMKDEKEALINQLTLVESLWTE  
ELKILRASAETLHSLQTAFT

>sp|Q5SQS7|SH24B\_HUMAN SH2 domain-containing protein 4B OS=Homo sapiens GN=SH2D4B PE=2  
SV=1

MLQQILHDMYIDPELLAELSDVQKHILFYKMREEQLRRWKERETWEALAQDEGLRPPKTK  
RASDKHIQWLLGADGEVWWIMGEGPGDKPYEEISEELIAERARLQAQREAEELWRQKEA  
EITKKFRDALANEKARILAEKWKVEMEDRKAALKVLEERIHEEFKRKEEEEERKRGEQIRL  
QEEQRAKELYWTLKQAQLHCQASEKEEREWEELRRSKAADEERSRAQRARDEYRHSL  
RAIQKGTVAGLSSMFRELGQSHEQEALYHHLPDPGLPQPLALPVRTWERPLRPVSRDVI  
VRWFKEEQLP RRAGFERNTKFIAPWFHGIISREDAEALLENMTEGAFLVRVSEKIWGYTL  
SYRLQKGFKHFLVDASGDFYSFLGVDPNRHATLTDLVDFHKEEIIITVSGGELLQEPCGQR  
DSPPDYHLLFE

>sp|Q9BYB0|SHAN3\_HUMAN SH3 and multiple ankyrin repeat domains protein 3 OS=Homo sapiens  
GN=SHANK3 PE=1 SV=3

MDGPGASAVVVRGIPDLQQTCLRLDPAAPVWAAKQRVLCALNHSLQDALNYGLFQPPS  
RGRAGKFLDEERLLQEYPPNLDTPLPYLEFRYKRRVYAQNLIIDDKQFAKLHTKANLKKFM  
DYVQLHSTDKVARLLDKGLDPNFHDPDSGECPLSLAAQLDNATDLLKVLKNGGAHLDFRT  
RDGLTAVHCATRQRNAAALTLLDLGASPDYKDSRGLTPLYHSALGGDALCCELLLHDH  
AQLGITDENGWEIHQACRFGHVQHLEHLLFYGADMGAQNASGNTALHICALYNQESCAR  
VLLFRGANRDVRNYSQTAFQVAIIAGNFELAEVIKTHKSDVVPFRETPSYAKRRRLAG  
PSGLASPRPLQRSASDINLKGEAQPAASPGPSLRSLPHQLLLQRLQEEKDRDRDADQESN  
ISGPLAGRAGQSKISPSGGPGPGPAPGPGPAPPAPPAPPPRGPKRKLYSAVPGRKFIQVK  
AHSPQGEGEIPLHRGEAVKVLISIGEGFWEGTVKGRTGWFADCVVEVQMRQHDTRPETR  
EDRTKRLFRHYTVGSYDSLTSHSDYVIDDKVAVLQKRDHEGFGFVLRGAKAETPIEEFTP  
TPAFPALQYLESVDVEGVAWRAGLRTGDFLIEVNGVNVVKVGHKQVVALIRQGGNRLVMK  
VVSVTRKPEEDGARRRAPPKRAPSTTLTRSKSMTAELEELASIRRRKGEKLDEMLAA  
AAEPTLRPDIADADSRAATVKQRPTSRRITPAEISSLFERQGLPGPEKLPGLSLRKGIPT  
KSVGEDEKLASLLEGRFPRSTSMQDPVREGRIPPPQTAPPPPPAPYYFDSGPPPAFSP  
PPPPGRAYDTRSSFKPGLEARLGAGAAGLYEPGAALGPLPYPERQKRARSMIILQDSAP  
ESGDAPRPPPAATPPERPKRRPRPPGPDSPYANLGAFSASLFAPSKPQRRKSPLVKQLQV  
EDAQERAAALAVSGPGGGSFAREPSPTHRGPRPGGLDYGAGDGPGLAFGGPGPAKDRRL  
EERRRSTVFLSVGAIEGSAPGADLPQLPSRSIDERLLGTGPTAGRDLLLPSPVSALKPL  
VSGPSLGPSTFIHPLTGKPLDPSSPLALALAAARERALASQAPSRSPTPVHSPDADRPG  
PLFVDVQARDPERGSLASPAFSPRSPAWIPVAPARAEKVPREERKSPEDKKSMILSVLD  
TSLQRPAGLIVVHATSNGQEPSRLGGAEERPGTPELAPAPMQSAVAEPLPSRAQPPG  
GTPADAGPGQSSEEEPELVFAVNLPPAQLSSSDEETREELARIGLVPPPEEFANGVLLA  
TPLAGPGSPPTTVSPASGKPSSEPPAPESAADSGVEEADTRSSSDPHLETTSTISTVS  
SMSTLSSESGELTDHTSFADGHTFLLKPPVPPKPKLKSPLGKGPVTFRDPLLKQSSDS  
ELMAQQHHAASAGLASAAGPARPRYLFQRRSKLWGDVPESRGLPGPEDDKPTVISELSSR  
LQQLNKDTRSLGEEPVGGLGSLDPAKKSPIAAARLFSSLGELSSISAQRSPGGPGGGAS  
YSVRPSGRYPVARRASPVKPASLERVEGLGAGAGGAGRPFGLTPTPTILKSSSLIPHEP  
KEVRFVVRSVSARSRSPSPSPASPAGPGPGAPGPRRPFQKPLQLWSKFDVGDWLESI

HLGEHRDRFEDHEIEGAHLPALTKDDFVELGVTRVGHRMNIERALRQLDGS

>sp|Q6S5L8|SHC4\_HUMAN SHC-transforming protein 4 OS=Homo sapiens GN=SHC4 PE=1 SV=1

MRERGGQDSLGLVLYVGLFGHPGMLHRAKYSRFRNESITSLDEGSSGGSVGNKGSPQPPH  
PALAPHLPTEDATLPSQESPTPLCTLIPRMASMKLANPATLLSLKNFCLGTKEVPRLKLQ  
ESRDPGSSGPSSPETSLSRSGTAPPPQDLVGHRTALTPDSCPLPGPGPTLRSRQDRH  
FLQHLLGMGMNYCVRYMGCVEVLQSMRSLDFGMRTQVTREAI SRLCEAVPGANGAIKKRK  
PPVKFLSTVLGKSNLQFSGMNIKLITSTCSLTLMNLDNQQIIANHHMQSISFASGGDPDT  
TDYVAYVAKDPVNQRACHILECHNGMAQDVISTIGQAFELRFKQYLNPSLNTSCESEEV  
HIDSHAEEREDHEYNEIPGKQPPVGGVSDMRIKVQATEQMAYCPIQCEKLCYLPGNSKC  
SSVYENCLEQSRAIGNVHPRGVQSQRDTSLLKHTCRVDLFDPCYINTQALQSTPGSAGN  
QRSAQPLGSPWHCGKAPETVPGATAQPASSHSLPHIKQLWSEECYHGKLSRKAESLL  
VKDGDFLVRESATSPGQYVLSGLQGGQAKHLLLVDPEGKVRTKDHVFDNVGHLIRYHMDN  
SLPIISSGSEVSLKQPVRKDNNPALLHSNK

>sp|Q8NEM2|SHCBP\_HUMAN SHC SH2 domain-binding protein 1 OS=Homo sapiens GN=SHCBP1 PE=1 SV=3

MADGSLTGGGLEAAAMAPERMGWAVEQELASLEKGLFQDEDS CSDCSYRDKPGSSSLQSFM  
PEGKTFPPEIFQTNQLLFYERFRAYQDYILADCKASEVQEFTAEFLEKVLEPSGWRAVWH  
TNVFKVLVEITDVF AALKAVVRLAEPYLCDSQVSTFTMECMKELLDLKEHRLPLQELWV  
VFDDSGVFDQTALAI EHVRFYQNIWRSWDEEEDEYDYFVRCVEPRLRLHYDILED RVP  
SGLIVDYHNLLSQCEESYRKFLNLRSSLSNCSNDS EQENISMVEGLKLYSEMEQLKQK LK  
LIENPLLRVYFGYQKNSNIQAKGVRSSGQKITHVVSSTMMAGLLRSLTDRLCQEPGEEE  
REIQFHS DPLSAINACFEGDTVIVCPGHYV VHGTFSIADSIELEGYGLPDDIVIEKRKKG  
DTFVDCTGADIKISGIFVQHDAVEGILIVHRGKTTLENCVLQCETTGVTVRTSAEFLMK  
NSDLYGAKGAGIEIYPGSQCTLS DNGIHHCKEGILIKDFLDEHYDIPKISMVNNI IHNNE  
GYGVVLVKPTIFSDLQENAEDGTEENKALKIQTSGE PDVAERVDLEELIECATGKMELCA  
RTDPSEQVEGNCEIVNELIAASTQKGQIKKKRLSELGITQADDNLMSQEMFVGIVGNQFK  
WNGKGSFGTFLF

>sp|Q96IW2|SHD\_HUMAN SH2 domain-containing adapter protein D OS=Homo sapiens GN=SHD PE=1 SV=1

MAKWLRDYL SFGGRRPPPQPPTPDYTESDILRAYRAQKNLDFEDPYEDAESRLEPDPAGP  
GDSKNPGDAKYGSPKHRLIKVEAADMARAKALLGGPGEELEADTEYLDPFDAQHPAPPD  
DGYMEPYDAQWVMS ELPGRGVQLYDTPYEEQDPETADGPPSGQKPRQSRMPQEDERPADE  
YDQPWEWKDHI SRAFAVQFDSPEWERTPGSAKELRRPPRSPQPAERVDPALPLEKQPW  
FHGPLNRADAESLLSLCKEGSYLVRLSETNPQDCSLSLRSSQGFLHLKFARTRENQVVLG  
QHSGPFPSPVPELV LHYSSRPLPVQGAEHLALLYPVVTQTP

>sp|Q5VZ18|SHE\_HUMAN SH2 domain-containing adapter protein E OS=Homo sapiens GN=SHE PE=1 SV=1

MQWSPTPGASACLGWASSLACSTAPTLLGRAGRGLMAAKWFKEFPLNLKTVSERAKPGG  
GGGKLRKNSEAGGAGPGPGKGRKNSAAELGSGRAGVGPKDSRLSRDSLQGLIQAAAGKGR  
KNSRATEEEPHRGATKSSGCSTYINRLIKVD TQEKNGKSNYPSSSSSSSSSSSSASSPS  
SLGPELDKGKIKKQETV ILEDYADPYDAKRTKGQRDAERVGENDGYMEPYDAQQMITE  
IRRRGSKDPLVKALQLLDSPCEPADGGLKSETLAKRRSSKDLLGKPPQLYDTPYEPAEGG  
PRAEGKARPPDSRLPENDERPAEYEQPWEWKKEQIVRALSVQFEGAERPSFREETVRQH  
HRQKSWTQKILKPALSDHSEGEKVDPLPLEKQPWYHGAI SRAEAESRLQPCKEAGYLVR

NSESGNSRYSIALKTSQGCVHIIVAQTKDNKYTLNQTSVFDISIPEVVHYYSNEKLPFKG  
AEHMTLLYPVHSKLH

>sp|Q15465|SHH\_HUMAN Sonic hedgehog protein OS=Homo sapiens GN=SHH PE=1 SV=1

MLLLARCLLLVLVSSLLVCSGLACGPRGFGKRRHPKKLTPLAYKQFIPNVAEKTLGASG  
RYEGKISRNSERFKELTPNYPNDIIFKDEENTGADRLMTQRCKDKLNALAISVMNQWPGV  
KLRVTEGWDEDGHHSEESLHYEGRAVDITTSRDRSKYGMRLARLAVEAGFDWVYYESKAH  
IHCSVKAENSVAAKSGGCFPGSATVHLEQGGTKLVKDLSPGDRVLAADDQGRLLYSDFLT  
FLDRDDGAKKVFYVIETREPRERLLLTAHLLFVAPHNDSATGEPEASSGSGPPSGGALG  
PRALFASVRVPGQRYVYVAERDGDRLLPAAVHSVTLSEEAAGAYAPLTAQGTILINRVL  
ASCYAVIEEHSWAHRAFAPFRLAHALLAALAPARTDRGDSGGGDRGGGGGRVALTAPGA  
ADAPGAGATAGIHWYSQLLYQIGTWLLDSEALHPLGMVAVKSS

>sp|Q8TBC3|SHKB1\_HUMAN SH3KBP1-binding protein 1 OS=Homo sapiens GN=SHKBP1 PE=1 SV=2

MAAAATAAEGVPSRGPPEVIHLNVGGKRFSTSRQTLTWIPDSFFSLLSGRISTLKDET  
GAIFIDRDPTVFAPILNFLRTKELDPRGVHGSSLLHEAQFYGLTPLVRRLQLREELDRSS  
CGNVLFNGYLPVPVFKRRNRHSLVGPQQLGGRPAPVRRSNTMPPNLGNAGLLGRMLDE  
KTPSPSPGQPEEPMVRLVCGHHNWIAVAYTQFLVCYRLKEASGWQLVFSSPRLDWPIER  
LALTARVHGGALGEHDKMVAATGSEILLWALQAEGGGSEIGVFHLGVPVEALFFVGNQL  
IATSHTGRIGVWNAVTKHWQVEVQPIITSYDAAGSFLLLGCNNGSIYYVDVQKFPLRMKD  
NDLLVSELYRDPADGVTALSVYLTPKTSDSGNWIEIAYGTSSGGVRVIVQHPETVSGSP  
QLFQTFTVHRSPVTIKMLSEKHLISVCADNNHVRTWSVTRFRGMISTQPGSTPLASFIL  
ALESADGHGGCSAGNDIGPYGERDDQQVFIQKVPSASQLFVRLSSTGQRVCSVRSVDGS  
PTTAFTVLECEGSRRLGSRPRRYLLTGQANGSLAMWDLTTAMDGLGQAPAGGLTEQELME  
QLEHCELAPPAPSAPSWGCLPSPSPRISLTSLSHASSNTSLSGHRGSPSPQAARRRRGG  
GSFVERCQELVRSGPDLRRPPTPAPWPSSGLGTPLTPPKMKLNETSF

>sp|Q9UQ13|SHOC2\_HUMAN Leucine-rich repeat protein SHOC-2 OS=Homo sapiens GN=SHOC2 PE=1  
SV=2

MSSSLGKEKDSKEKDPKVPSAKEREKEAKASGGFGKESKEKEPKTKGKDAKGKDDSSAA  
QPGVAFSVDNTIKRPNPAGTRKKSSNAEVIKELNKREENSMRLDLSKRSIHILPSSIK  
ELTQLTELYLYSNKLQSLPAEVGCLVNLMTLALSENSLTSLPDSLNLKKLRMLDLRHNK  
LREIPSVVYRLDSLTTLYLRFNRITTVKEDIKNLSKLSMLSIRENKIKQLPAEIGELCNL  
ITLDVAHNQLEHLPEIGNCTQITNLDLQHNELLDLPTIGNLSSLSRLGLRYNRLSAIP  
RSLAKCSALEELNLENNISTLPESLLSSLVKLNSLTARNCQFLYPVGGPSQFSTIYSL  
NMEHNRINKIPFGIFSAKVLKLNMDNQLTSLPLDFGTWTSMVELNLATNQLTKIPED  
VSGLSLEVLILSNLLKKLPHGLGNLRKLRELDLEENKLESPLNEIAYLKDLQKLVLTN  
NQLTTLPRGIGHLTNLTHLGLGENLLTHLPEEIGTLENLEELYLNDNPNLHSLPFELALC  
SKLSIMSIENCPLSHLPPQIVAGGPSFIIQFLKMQGPYRAMV

>sp|O60902|SHOX2\_HUMAN Short stature homeobox protein 2 OS=Homo sapiens GN=SHOX2 PE=2  
SV=4

MEELTAFVSKSFDQKVKEKKEAITYREVLESGPLRGAKEPTGCTEAGRDDRSPAVRAAG  
GGGGGGGGGGGGGGGGGGVGGGGAGGGAGGGRSPVRELDMGAAERSREPGSPRLTEVSPEL  
KDRKEDAKGMEDEGQTKIKQRRSRTNFTLEQLNELERLFDETHYPDAFMREELSQRGLS  
EARVQVWFQNRRAKCRKQENQLHKGVLIGAASQFEACRVAPYVNVGALRMPFQQDSHCNV  
TPLSFQVQAQLQDLSAVAHAAHHHLPHLAAHAPYMMFPAPPFGLPLATLAADSASAAASVV  
AAAAAAKTTSKNSSIADLRLKAKKHAAALGL

>sp|Q149N8|SHPRH\_HUMAN E3 ubiquitin-protein ligase SHPRH OS=Homo sapiens GN=SHPRH PE=1 SV=2

MSSRRKRAPPVRVDEEKRQQLHWNMHEDRRNEPIIISDDDEQPCPGSDTSSAHYIILSDS  
LKEEVAHRDKKRCISKVVSFSKPIEKEETVGIFSPLSVKLNIVISPYHFDNSWKAFLGELT  
LQLLPAQSLIENFSERSITLMSSESSNQFLIYVHSGEDVEKQKKEPMSICDKGILVESS  
FSGEMLEDLGWLQKKRRIKLYQKPEGNHIIKVGIYLLEAGLAKLDFLSDANSRMKKFNQL  
MKKVMKELHNSIIPDVLEEDEDPESEPEGQDIDELYHFVKQTHQETQSIQVDVQHPAL  
IPVLRPYQREAVNWMLQQECFRSSPATESALHFLWREIVTSEGLKLYNPYTGCIIREYP  
NSGPQLLGGILADEMGLGKTVEVLALILTHTRQDVQDALTLPEGKVNYFIPSHYFGGK  
LKKTEIQNIEFEPKEKVQCPPTRVMILTAVKEMNGKKGVSILSIKYVSSIYRYDVQRNR  
SLLKRMKLCLIFEGLVKQIKGHGFSGTFTLGKNYKEEDICDKTKKQAVGSPRKIQKETRK  
SGNKDTSSEYLPSDTSDDDDDPYIIKSRNRSLRKKLVSTKKGKSQPFINPDSQGH  
CPATSDSGITDVAMSKSTCISEFNQEHETEDCAESLNHADSDVPPSNTMSPFNSTDYRFE  
CICGELDQIDRKPRVQCLKCHLWQHAKCVNYDEKNLKIIPFYCPHCLVAMEPVSTRATLI  
ISPSSICHQWVDEINRHVRSSSLRVLVYQGVKKGFLQPHFLAEQDIVIITYDVLRLSELN  
YVDIPHSNSEDGRRLRNQKRYMAIPSPLVAVEWWRICLDEAQMVECPVKAAMAQRLSG  
INRWICSGTPVQRGLEDLFGVLVFLGIEPYCVKHWVRLLYRYPYCKKNPQHLYSFIKIL  
WRSAKKDVIDQIIPPQTEEIHVLHFSVERHFYHRQHEVCCQDVVVKLRKISDWALKLS  
SLDRRTVTSILYPLLRLRQACCHPQAVRGEFLPLQKSTMTMEELLTSLQKKCGTECEEAH  
RQLVCALNGLAGIHIKGEYALAAELYREVLRSSEEHKGLKTDLSLRLHATHNLMELLI  
ARHPGIPPTLRDGRLEEEAKQLREHYMSKCNTAEAAQALYPVQQTIIHELQRKIHSNSP  
WWLNVIHRAIEFTIDEELVQVRNEITSNYKQQTGKLSMSEKFRDCRGLQFLTTQMEEL  
NKCQKLVREAVKNLEGPSSNRNIESATVCHLRPARLPLNCCVFCKADELFTYESKLFSN  
TVKGQTAFIEMEIEDEGLVDDRPTTTRGLWAISETERSMKAILSFAKSHRFDVEFVDE  
GSTSMDLFEAWKKEYKLLHEYWMALNRNRSVAVDELAMATERLRVRDPREPKNPPVLHII  
EPHEVEQNRIKLLNDKAVATSQLQKKLGQLLYLTNLEKSQDKTSGGVNPEPCPICARQLG  
KQWAVLTCGHCFNECISIIIEQYSVGSHRSSIKCAICRQTTSHKEISYVFTSEKANQEE  
DIPVKGSHSTKVEAVVRTLMKIQLRDPGAKALVFSTWQDVLDIISKALTDNNMEFAQISR  
VKTFQENLSAFKRDQPINILLPLHTGSNGLTIIETHVLLVEPILNPAHELQAIGRVHR  
IGQTKPTIVHRFLIKATIEERMQAMLKTAERSHTNSSAKHSEASVLTVADLADLFTKETE  
ELE

>sp|P58511|SI11A\_HUMAN Small integral membrane protein 11A OS=Homo sapiens GN=SMIM11A PE=2 SV=1

MNWKVLHVPULLYILAATLILCLTFAGVKMYQRKRLEAKQKLEAERKKQSEKKN

>sp|Q16842|SIA4B\_HUMAN CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 2 OS=Homo sapiens GN=ST3GAL2 PE=2 SV=1

MKCSLRVWFLSVAFLLVFIMSLFTYSHSMATLPYLD SGALDGTNRVLPVGYAGLQRL  
SKERLSGKSCACRRCMGDAGASDWFD SHFDGNISPVWTRENMDLPPDVQRWWMLQPQFK  
SHNTNEVLEKLFQIVPGENPYRFRDPHQCRCAVVGNSGNLRGSGYGQDVGHNFMIRMN  
QAPTVGFEQDVGSRTHHFMYPESAKNLPANVSFVLVPFKVLDLLWIASALSTGQIRFTY  
APVKSFLRVDKEKVQIYNPAFFKYIHDRWTEHHGRYPSTGMLVLFALHVCDEVNVYGF  
ADSRGNWHHYWENNRYAGEFRKTGVHDADFEAHIIDMLAKASKIEVYRGN

>sp|O15466|SIA8E\_HUMAN Alpha-2,8-sialyltransferase 8E OS=Homo sapiens GN=ST8SIA5 PE=1 SV=2

MRYADPSANRDLLGSRTLLFIFICAFALVTLLQQILYGRNYIKRYFEFYEGPFEYNSTRC  
LELRHEILEVKVLSMVKQSELFDRWKS LQMCKWAMNISEANQFKSTLSRCCNAPFLFTT  
QKNTPLGTLKYEVDTSIGIYHINQEIFRMFPKDMPPYRSQFKKCAVVGNGGILKNSRCGR  
EINSADFVFR CNLPPISEKYTMDVGKTDVTVNPSIIITERFHKLEKWRPFPYRVLQVYE  
NASVLLPAFYNTRNTDVSIRVKYVLDDFESPQAVYYFHPQYLVNVSRYWLSLGVRAKRIS  
TGLILVTALELCEEVHLFGFWAFPMNPSGLYITHHYDENVKPRPGFHAMPSEIFNFLHL  
HSRGILRVHTGTCSCC

>sp|O43255|SIAH2\_HUMAN E3 ubiquitin-protein ligase SIAH2 OS=Homo sapiens GN=SIAH2 PE=1  
SV=1

MSRPSSTGPSANKPCSKQPPPQPQHTPSAAPPAAATISAAGPGSSAVPAAAAVISGPGG  
GGGAGVPSPQHHELTSLFECPCFDYVLPPI LQCQAGHLVCNQCRQKLSCCPTCRGALTP  
SIRNLAMEKVASAVLFPCKYATTGCSLTLHHTKEPEHEDICEYRYPYSCPCPGASCKWQGS  
LEAVMSHLMHAHKSITTLQGEDIVFLATDINLPGAVDWMMQSCFGHHFMLVLEKQEKYE  
GHQQFFAIVLLIGTRKQAE NFAYRLELNGNRRRLTWEATPRS IHDGVA AAIMNSDCLVFD  
TAIAHLFADNGNLGINVTISTCCP

>sp|A6NCI5|SIM16\_HUMAN Putative transmembrane protein encoded by LINC00862 OS=Homo  
sapiens GN=LINC00862 PE=5 SV=1

MVCYLYWETFPSISHLLKITLSARDCHVCGNLNFI FMDPVENQALHPVIMALILMPSLHC  
FGNILILLFLKSPAQLFCRMSVDLALLFPHK

>sp|Q9BPZ7|SIN1\_HUMAN Target of rapamycin complex 2 subunit MAPKAP1 OS=Homo sapiens  
GN=MAPKAP1 PE=1 SV=2

MAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVDLEKIHPPSMPGDSGSEIQGSNGE  
TQGYVYAQSVDITSSWDFGIRRRSNTAQRLERLRKERQNQIKCKNIQWKERNQKQSAQEL  
KSLFEKKSLKEKPPI SGKQSILSVRLEQCPLQLNNPFNEYSKFDGKGHVGT TATKIDVY  
LPLHSSQDRLLPMTVV TMASARVQDLIGLICWQYTSEGREPKLNDNVSAYCLHIAEDDGE  
VDTDFPPLDSNEPIHKFGFSTLALVEKYSSPGLTSKESLFVRINA AHGFSLIQVDNTKVT  
MKEILLKAVKRRKGSQKVSGPQYRLEKQSEPNVAVDLDSTLESQSAWEFCLVRENSRAD  
GVFEEDSQIDIATVQDMLSSHYSFKVSMIHRLRFTTDVQLGISGDKVEIDPVTNQKAS  
TKFWIKQKPI SIDDLLCACDLAEKSPSHAIFKLTYSNHDYKHL YFESDAATVNEIVL  
KVNYILESRASTARADYFAQKQRKLNRRTSFSFQKEKKSGQQ

>sp|Q96ST3|SIN3A\_HUMAN Paired amphipathic helix protein Sin3a OS=Homo sapiens GN=SIN3A  
PE=1 SV=2

MKRRLDDQESPVYAAQRRIPGST EAFPHQHRVLAPAPPVYEAVSETMQSATGIQYSVTP  
SYQVSAMPQSSGSHGPAIAAVHSSHHTAVQPHGGQVVQSHAHPAPPVAPVQGGQQFQR  
LKVEDALSYLDQVKLQFGSQPVYNDFLDIMKEFKSQSIDTPGVISRVSQLFKGHPDLIM  
GFNTFLPPGYKIEVQTNDMVNVTPGQVHQIP THGIQPQP PPPQHPSQPSAQSAPAPAQ  
PAPQPPPAKVSKPSQLQAHTPASQQTPLPPYASPRSPVQPHTPVTISLGTAPSLQNNQ  
PVEFNHAINYVNKIKNRFQGGPD IYKAFLEILHTYQKEQRNAKEAGGNYTPALTEQEVYA  
QVARLFKNQEDLLSEFGQLPDANSSVLLSKTTAEKVDSVRNDHGGTVKKPQLNNKPQRP  
SQNGCQIRRHPTGTTPPVKKPKLLNLKDSSMADASKHGGTESLFFDKVRKALRSAEAY  
ENFLRCLVIFNQEVISRAELVQLVSPFLGKFPELFNWFKNFLGYKESVHLETYPKERATE  
GIAMEIDYASCKRLGSSYRALPKSYQQPKCTGRTPLCKEVLNDTWVSFPSWSEDSTFVSS  
KKTQYEEHIYRCEDERFELDVLETNLATIRVLEAIQKKLSRLSAEEQAKFRLDNTLGGT  
SEVIHRKALQRIYADKAADIIDGLRKNPSIAVPIVLKRLKMKEE EWREAQRGFNKVWREQ

NEKYYLKSLDHQGINFKQNDTKVLRSKSLLNEIESIYDERQEQATEENAGVPVGPPLSLA  
YEDKQILEDAAALIHHVKRQTGIQKEDKYKIKQIMHHFIPDLLFAQRGDLSDVEEEEEEE  
EMDVDEATGAVKKHNGVGGSPPKSKLLFSNTAAQKLGRMDEVYNLFYVNNWYIFMRLHQ  
ILCLRLLRISQAERQIEEENREREWEREVLGIKRDKSDSPATQLRLKEPMDVDVEDYYP  
AFLDMVRSLLDGNIDSSQYEDSLREMFTIHAYIAFTMDKLIQSIVRQLQHIVSDEICVQV  
TDLYLAENNGATGGQLNTQNSRSLLESTYQRKAEQLMSDENCFKLMFIQSQQVQLTIE  
LLDTEENSDDPVEAERWSDYVERYMNSDTTSPELREHLAQKPVFLPRNLRRIRKCQRGR  
EQQEKEGKEGNSKKTMENVDSLDKLECRFKLNSYKMOVYIKSEDMYRRTALLRAHQSH  
RVSKRLHQRFQAWVDKWTKEHVPREMAAETSKWLMGEGLEGLVPCTTCDTETLHFVSIN  
KYRVKYGTVFKAP

>sp|Q9NXA8|SIR5\_HUMAN NAD-dependent protein deacylase sirtuin-5, mitochondrial OS=Homo sapiens GN=SIRT5 PE=1 SV=2

MRPLQIVPSRLISQLYCGLKPPASTRNQICLKMARPSSSMADFRKFFAKAKHIVIISGAG  
VSAESGVPTFRGAGGYWRKWQAQDLATPLAFHNPSRVWEFYHYRREVMGSKEPNAGHRA  
IAECETRLGKQRRVVITQNIDELHRKAGTKNLLEIHGSLFKTRCTSCGVVAENYKSPI  
CPALSGKGAPEPGTQDASIPVEKLPRCEEAGCGGLLRPHVWVFGENLDPAILVEVDRELA  
HCDLCLVVGTSVVYPAAMFAPQVAARGVPVAEFNTETTPATNRFHFHQGPCGTTLPEA  
LACHENETVS

>sp|P84550|SKOR1\_HUMAN SKI family transcriptional corepressor 1 OS=Homo sapiens GN=SKOR1 PE=1 SV=1

MALLCGLGQVTLRIWVSLPSQSENGIGFLAARAFLRSGGMEALTTQLGPGREGSSSPNSK  
QELQPYSGSSALKPNQVGETSLYGVPVIVSLVIDGQERLCLAQISNTLLKNYSYNEIHNRR  
VALGITCVQCTPVQLEILRRAGAMPISRRRCGMITKREAERLCKSFLGEHKPPKLPENFA  
FDVHCEAWGSRGSFIPARYNSSRAKCIKGYCSMYFSPNKFIFHSHRTPDAKYTPDAA  
NFNSWRRHLKLSDKSATDELSHAWEDVKAMFNGGTRKRTFSLQGGGGGGANGSGGQKKG  
GAGGGGGGPGCGAEMAPGPPPHKSLRCGEDEAAGPPGPPPPHPQRGLLATGASGPAGP  
GGPGGGAGVRSYPVIVPVSKEGFLQLKLPPPLFPHPYGFPTAFGLCPKKDDPVLGAGEPK  
GGPGTSGGGGAGTGGGAGGPGASHLPPGAGAGPGGAMFWGHQPSGAADAAVAAAAA  
AATVYPTFPMFWPAAGSLPVPSYPAAQSQAQAVAAVAAAAAAAAAAGSGAPEPLDGAE  
PAKESGLGAEERCPSALSRGPLDEDGTDEALPPPLAPLPPPPPPARKGSYVSAFRPVVK  
DTESIAKLYGSAREAYGAGPARGPGGAGSGGYVSPDFLSEGSYNSASPDVDTADEPE  
VDVESNRFPDDDEAQEETEPSAPSAGGPDGEQPTGPPSATSSGADGPANSPDGGSPRPR  
RRLGPPAGRPAFGDLAAEDLVRPERSPPSGGGYELREPCGPLGGPAPAKVFAPERDE  
HVKSAAVALGPAASYVCTPEAHEPDKEDNHSPADDLETRKSYPDQRSISQSPANTDRGE  
DGLTLDVTGTHLVEKDIENTLAREELQKLLLEQMELRKKLEREFQSLKDNFQDMKRELAY  
REEMVQQLQIVRDTLCNELDQERKARYAIIQKLKEAHDALHHFSCKMLTPRHCTGNCSFK  
PPLLP

>sp|P63208|SKP1\_HUMAN S-phase kinase-associated protein 1 OS=Homo sapiens GN=SKP1 PE=1 SV=2

MPSIKLQSSDGEIFEVDVEIAKQSVTIKTMLEDLGMDDEGDDDPVPLPNVNAAILKKVIQ  
WCTHHKDDPPPPEDDENKEKRTDDIPVWDQEFQKVDQGTFLFELILAANYLDIKGLLDVTC  
KTVANMIKGTPEEIRKTFNIKNDFTEEEEAQVRKENQWCEEK

>sp|Q4ZJI4|SL9B1\_HUMAN Sodium/hydrogen exchanger 9B1 OS=Homo sapiens GN=SLC9B1 PE=2 SV=2  
MHTTESKNEHLEDENFQTSTTPQSLIDPNNTAQEETKTVLSDTEEIKPQTKKETYISCPL

RGVLNVIITNGVILFVIWCMTWSILGSEALPGGNLFGLFIIFYSATIGGKILQLIRIPLV  
PPLPPLLGMLLAGFTIRNVPFINEHVHPNTWSSILRSIALTIILIRAGLGDPQALRHL  
KVVCFLAVGPCLMEASAAVFSHFIMKFPWQWAFLLGFLVAVSPAVVVPYMMVLQENG  
YGVEEGIPTLLMAASSMDDILAITGFNTCLSIVFSSGGILNNAIASIRNVCISLLAGIVL  
GFFVRYFPSEDQKKLTLKRGFLVLTMCVSAVLGSQRIGLHGSGGLCTLVLSFIAGTKWSQ  
EKMKVQKIITTVWDIFQPLLFGLVGAEVSVSSLESNIVGISVATLSLALCVRILTTYLLM  
CFAGFSFKEKIFIALAWMPKATVQAVLGPLALETARVSAPHLEPYAKDVMTVAFLAILIT  
APNGALLMGILGPKMLTRHYDPSKIKLQLSTLEHH

>sp|Q86UD5|SL9B2\_HUMAN Mitochondrial sodium/hydrogen exchanger 9B2 OS=Homo sapiens  
GN=SLC9B2 PE=1 SV=2

MGDEDKRITYEDSEPSTGMNYTPSMHQEAQEETVMKLKIDANEPTEGSILLKSSEKKLQ  
ETPTEANHVQRLRQMLACPPHGLLDRVITNVTIIVLLWAVVWSITGSECLPGGNLFGIII  
LFYCAIIGGKLLGLIKLPTLPPLPSLLGMLLAGFLIRNIPVINDNVQIKHKWSSSLRSIA  
LSIILVRAGLGDSKALKKLGVCVRLSMGPCIVEACTSALLAHYLLGLPWQWGFILGFV  
LGAVSPAVVVPMSLLQGGGYGVEKGVPTLLMAAGSFDDILAITGFNTCLGIAFSTGSTV  
FNVLRGVLEVIGVATGSVLGFFIYFSPSRDQDKLVCKRTFLVLGLSVLAVFSSVHFGFP  
GSGGLCTLVMAFLAGMGWTSEKAEVEKIIAVAWDIFQPLLFGLIGAEVSIASLRPETVGL  
CVATVGIAVLIRILTTFLMVCFAGFNLKEKIFISFAWLPKATVQAAIGSVALDTARSHGE  
KQLEDYGMDVLTVAFLSILITAPIGSLIGLLGPRLQKVEHQNKDEEVQGETSVQV

>sp|A6NJY1|SL9P1\_HUMAN Putative SLC9B1-like protein SLC9B1P1 OS=Homo sapiens GN=SLC9B1P1  
PE=5 SV=4

MVLQENGYGVEEDIPTLLMAASSMDDLAITGFNTCLSIVFYSGGMINNAIASLRNVCIS  
LLAGIVLGFFVRYFPSEDQKKITLKRGFLVLITFVSAVLGSQPIGLHGSGGLCTLVLHFI  
EWTKWSQEKMKVQKIITNVWDIFQPLLFGLVGAEVSVSLESNIVGISVSTLSLALCVRI  
LNIYLLMCFAGFSFKEKIFIALAWMPKATVQAVLGPLALETARVSTPHLETYAKDVMTVA  
FLAIMITAPNGALLMGILGPKMLTRHYDPSKIKLQLSTLEHH

>sp|Q9POV8|SLAF8\_HUMAN SLAM family member 8 OS=Homo sapiens GN=SLAMF8 PE=1 SV=1

MVMRPLWSLLLWEALLPITVTGAQVLSKVGGSVLLVAARPPGFQVREAIWRSLWPSEELL  
ATFFRGSLETLYHSRFLGRAQLHSNLSLELGPLESGDSGNFVLMVDTRGQPWTQTLQLK  
VYDAVPRPVVQVFIIVERDAQPSKTCQVFLSCWAPNISEITYSWRRETTMDFGMEPHSLF  
TDGQVLSISLGPQDRDVAYSCIVSNPVSVDLATVTPWDSCHHEAAPGKASYKDVLLVVVP  
VSLLMLVTLFSAWHWCPCSGKKKKDVHADRVGPETENPLVQDLP

>sp|Q9BRT9|SLD5\_HUMAN DNA replication complex GINS protein SLD5 OS=Homo sapiens GN=GINS4  
PE=1 SV=1

MTEEVDFLGQSDGGSEEVLTPAELIERLEQAWMNEKFAPELLESKPEIVECVMEQLEH  
MEENLRRAKREDLKVSIHQMEMERIRYVLSSYLRCRLMKIEKFFPHVLEKEKTRPEGEPS  
SLSPEELAFAREFMANTESYLNVALKHMPNQLQKVDLFRAVPKPDLSYVFLRVRRERQE  
NILVEPDTDEQRDYVIDLEKGSQHLIRYKTIAPLVASGAVQLI

>sp|Q08AF3|SLFN5\_HUMAN Schlafen family member 5 OS=Homo sapiens GN=SLFN5 PE=1 SV=1

MSLRIDVDTNFPECVVDAGKVTLTGTQQRQEMDPRLEKQNEIILRAVCALLNSGGGIKA  
EIENKGYNYERHGVGLDVPIFRSHLDKMQKENHFLIFVKSWNTEAGVPLATLCSNLYHR  
ERTSTDVMSQEAALFKCRTQPTNINVSNSLGPQAAQGSVQYEGNINVSAAALFDRKR  
LQYLEKLNLPESHVEFVMFSTDVSHCVKDRLPKCVSAFANTEGGYVFFGVHDETCQVIG  
CEKEKIDLTSLRASIDGCIKKLPVHHFCTQRPEIKYVLNFLEVHDKGALRGYVCAIKVEK

FCCAVFAKVPSSWQVDNRVRQLPTREWTAWMEADPDLSRCPEMVLQLSLSSATPRSKP  
VCIHKNSECLKEQQKRYFPVFSRVDVYTPESLYKELFSQHKGLRDLINTEMRPFSQGILI  
FSQSWAVDLGLQEKQGVICDALLISQNNTPILYTIFSKWDAGCKGYSMIVAYSLKQKLVN  
KGGYTGRLCITPLVCVLNSDRKAQSVYSSYLQIYPESYNFMPQHMEALLQSLVIVLLGF  
KSFLSEELGSEVLNLLTNKQYELLSKNLRKTRELFVHGLPGSGKTILALRIMEKIRNVFH  
CEPANILYICENQPLKKLVFSKKNICQPVTRKTFMKNNFEHIQHIIIDDAQNFRTEGDG  
WYGKAKFITQTARDGPGVLWIFLDYFQTYHLSCSGLPPPSDQYPREEINRVVRNAGPIAN  
YLQQVMQEARQNPPNLPPLGSLVMLYEPKWAQGVPGNLEIIEDLNLEEILYVANKCRFL  
LRNGYSPKDIAVLFTKASEVEKYDRLLTAMRKRKLSQLHEESDLLLQIGDASDVLTDHI  
VLDSVCRFSGLERNIVFGINPGVAPPAGAYNLLLCLASRAKRHLYILKASV

>sp|P01286|SLIB\_HUMAN Somatoliberin OS=Homo sapiens GN=GHRH PE=1 SV=1  
MPLWVFFFVILTLNSSHCSPPPPLTLRMRRYADAIFTNSYRKVLGQLSARKLLQDIMSR  
QQGESNQERGARARLGRQVDSMWAEQKQMELESILVALLQKHSRNSQG

>sp|Q9H156|SLIK2\_HUMAN SLIT and NTRK-like protein 2 OS=Homo sapiens GN=SLITRK2 PE=2 SV=1  
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QYRIYQLFLNGNLLTRLYPNEFVNYSNAVTLHLGNNGLQEIRTGAFSGLKTLKRLHLNNN  
KLEILREDTFLGLESLEYLQADYNYISAIEAGAFSKLNKLKVLILNDNLLLSLPSNVFRF  
VLLTHLDLRGNRLKVMFPAGVLEHIGGIMEIQLEENPWNCTDLLPLKAWLDTITVFVGE  
IVCETPFRLHGKDVTLTRQDLCPRKSASDSSQRGSHADTHVQRLSPTMNPALNPTRAPK  
ASRPPKMRNRPTPRVTVSKDRQSGFIMVYQTKSPVPLTCPSSCVCTSQSSDNGLNVNCQ  
ERKFTNISDLQPKPTSPKKLYLTGNYLQTVYKNDLLEYSSDLLHLGNNRIAVIQEGAFT  
NLTSRLRYLNGNYLEVLYPSMFDGLQSLQYLYLEYNVKEIKPLTFDALINLQLLFLNN  
NLLRSLPDNIFGGTALTRLNLRNNHFSHLPVKGVLDQLPAFIQIDLQENPWDCTCDIMGL  
KDWTEHANSPVINEVTCESPA KHAGEILKFLGREAI CPDSPNLSDGTVLSMNHNTDTPR  
SLSVSPSSYPELHTEVPLSVLILGLLVFVILSVCFGAGLFVFLKRRKGVPSVPRNTNNL  
DVSSFQLQYGSYNTETHDKTDGHVYNYIPPPVGQMCQNPIYMQKEGDPVAYYRNLEQFSY  
SNLEEKKEEPATPAYTISATELLEKQATPREPELLYQNI AERVKELPSAGLVHYNFCTLP  
KRQFAPSYESRRQNQDRINKTVLYGTPRKCFVGQSKPNHPLLQAKPQSEPDYLEVLEKQT  
AISQL

>sp|O94933|SLIK3\_HUMAN SLIT and NTRK-like protein 3 OS=Homo sapiens GN=SLITRK3 PE=2 SV=2  
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CDSKGFTNISQITEFWSRPFKLYLQRNSMRKLYTNSFLHLNNAVSINLGNNALQDIQTGA  
FNGLKILKRLYLHENKLDVFRNDTFLGLESLEYLQADYNVIKRIESGAFRNLSKLRVLIL  
NDNLIPMLPTNLFKAVSLTHLDLRGNRLKVLFYRGMLDHIGRSLMELQLEENPWNCTCEI  
VQLKSWLERIPYTALVGDITCETPFHFHGKDLREIRKTELCPLLSDSEVEASLGIPHSS  
SKENAWPTKPSSMLSSVHFTASSVEYKSSNKQPKPTKQPRTPRPPSTSQALYPGNQPP I  
APYQTRPPIPIICPTGCTCNLHINDLGLTVNCKERG FNNISELLPRPLNAKKLYLSSNLI  
QKIYRSDFWNFSSDLLHLGNNRISYVQDGAFINLPNLKSLFLNGNDIEKLTGPMFRGLQ  
SLHYLYFEFNVIREIQPAAFSLMPNLKLLFLNNLLRTLPTDAFAGTSLARLNLRKNYFL  
YLPVAGVLEHLNAIVQIDLNENPWDCTCDLVPFKQWIETISSVSVDVLCRSPENLTHR  
DVRTIELEVLCPEMLHVAPAGESPAQPGDSHLIGAPTSASPYEFSPPGGPVPLSVLILSL  
LVLFFSAVFVAAGLFAYVLRNRRRKKLPFRSKRQEGVDLTGIQMCHRLFEDGGGGGGSG  
GGGRPTLSSPEKAPPVGHVYEYIPHPVTQMCNNPIYKPREEEEVAVSSAQEAGSAERGGP  
GTQPPGMGEALLGSEQFAETPKENHSNYRTLLEKEKEWALAVSSQLNTIVTVNHHHPHH



PAVGGVSGVVGTTGGDLAGFRHHEKNGGVVLFPPGGGCGSGSMLLDRERPQPAPCTVG FV  
DCLYGTVPKLELHVHPPGMQYPDLQQDARLKETLLFSAGKGFTDHQTKSDYLELRAKL  
QTKPDYLEVLEKTTYRF

>sp|Q9H5Y7|SLIK6\_HUMAN SLIT and NTRK-like protein 6 OS=Homo sapiens GN=SLITRK6 PE=2 SV=3

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HNSLEILKEDTFHGLLENLEFLQADNNFITVIEPSAFSKLNRLKVLILNDNAIESLPPNIF  
RFVPLTHLDLRGNQLQTLPIYVGFLHIGRI LDLQLEDNKWACNCDLLQLKTWLENMPPQS  
IIGDVVCNSPPFFKGSILSRKKESICPTPPVYEEHEDPSGSLHLAATSSINDSRMSTKT  
TSILKLPTKAPGLIPYITKPSTQLPGPYCPIPCNCKVLSPSGLLIHCQERNIESLSDLRP  
PPQNPRKLI LAGNI IHSLMKSDLVEYFTLEMLHLGNNRIEVLEEGSFMNLTRLQKLYLNG  
NHLTKLSKGMFLGLHNLEYLYLEYNAIKEILPGTFNMPKLVLYLNNLLQVLPPIHFS  
GVPLTKVNLKTNQFTHLPVSNILDDLTLTQIDLEDNPWDCSDLVGLQQWIKLSKNTV  
TDDILCTSPGHLDDKELKALNSEILCPGLVNNPSMPTQTSYLMVTTATTNTADTILRS  
LTDAVPLSVLILGLLIMFITIVFCAAGIVVLVHRRRRYKKKQVDEQMRDNSPVHLQYSM  
YGHKTTHHTTERPSASLYEQHMVSPMVHVYRSPSFGPKHLEEEERNEKEGSDAKHLQRS  
LLEQENHSPLTGSNMKYKTTNQSTEFLSFQDASSLYRNILEKERELQQLGITEYLRKNIA  
QLQPDMEAHYPGAHEELKLMETLMYSRPRKVLVEQTKNEYFELKANLHAEPDYLEVLEQQ  
T

>sp|Q9GZT3|SLIRP\_HUMAN SRA stem-loop-interacting RNA-binding protein, mitochondrial  
OS=Homo sapiens GN=SLIRP PE=1 SV=1

MAASAARGAAALRRSINQPVAFVRRIPWTAASSQLKEHFAQFGHVRRCILPFDKETGFHR  
GLGWVQFSSEELRNALQQENHIIDGVKVQVHTRRPKLPQTSDEKKDF

>sp|094813|SLIT2\_HUMAN Slit homolog 2 protein OS=Homo sapiens GN=SLIT2 PE=1 SV=1

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DLNGNNITRITKTDFAGLRHLRVLQLMENKISTIERGAFQDLKELERLRLNRNHLQLFPE  
LLFLGTAKLYRLDSENQIQAIPRKAFRGAVDIKNLQLDYNQISCI EDGAFRALRDLEVL  
TLNNNNITRLSVASFNHMPKLRTFRLHSNNLYCDHLAWLSDWLRQRPRVGLYTQCMGPS  
HLRGHNVAEVQKREFVCSGHQSFMAPSCSVLHCPAACTCSNNIVDCRGKGLTEIPTNLPE  
TITEIRLEQNTIKVIPPGAFSPYKKLRRIDLSNNQISELAPDAFQGLRSLNSLVLYGNKI  
TELPKSLFEGLFSLQLLLL NANKINCLRVDAFQDLHNLNLLSLYDNKLQTI AKGTFSPLR  
AIQTMHLAQNPFI CDCHLKWADLYLHTNPIETSGARCTSPRRLANKRIGQIKSKKFRCSA  
KEQYFIPGTEDYRSKLSGDCFADLACPEKCRCEGTTVDCSNQKLNKIPEHIPQYTAE LRL  
NNNEFTVLEATGIFKKLPQLRKINFSNNKITDIEEGAFEGASGVNEILLTSNRLENVQHK  
MFKGLESKTLMLRSNRITCVGNDSFIGLSSVRLLSLYDNQITTVAPGAFDTLHSLSTLN  
LLANPFNCNCYLAWLGEWLRKKRIVTGNPRCQKPYFLKEIPIQDVAIQDFTCDDGND DNS  
CSPLSRCPTECTCLD TVVRCSNKGKVLPGKIPRDVTELYLDGNQFTLV PKELSNYKHLT  
LIDLSNNRISTLSNQSFNMTQLLTLILSYNRLRCIPRPTFDGLKSLRLLSLHGNDISVV  
PEGAFNDLSALSHLAIGANPLYCDCNMQWLSDWVKSEYKEPGIARCAGPGEMADKLLLT  
PSKKFTCQGPVDVNILAKCNPCLSNPCKNDGTCNSDPVDFYRCTCPYGFKGQDCDVPIHA  
CISNPCKHGGTCHLKEGEEDGFWCICADGFEGENCEVNVDDCEDNDCENNSTCVDGINNY  
TCLCPPEYT GELCEEKLDFCAQDLNPCQHDSKCILTPKGFKCDCTPGYVGEHCDIDFDDC  
QDNKCKNGAHCTDAVNGYTCICPEGYSGLFCEFSPPMVLPRTSPCDNFDCQNGAQ CIVRI  
NEPICQCLPGYQGEKCEKLVSVNFINKESYLQIPSAKVRPQTNITLQIATDEDSGILLYK

GDKDHIAVELYRGRVRASYDTGSHPASAIYSVETINDGNFHIVELLALDQSLSLSDVGGN  
PKIITNLSKQSTLNFDSPLYVGGMPGKSNVASLRQAPGQNGTSFHGCIRNLYINSELQDF  
QKVPMTQTGILPGCEPCHKKVCAGHTCQPSSQAGFTCECQEGWMGPLCDQRTNDPCLGNKC  
VHGTCLPINAFSYSCKLEGGVLCDEEEDLFNCPQAIKCKHGKRLSGLGQPYCECSS  
GYTGDSCDREISCRGERIRDYYQKQQGYAACQTTKKVSRLECRGGCAGGQCCGPLRSKRR  
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>sp|Q8IYM2|SLN12\_HUMAN Schlafen family member 12 OS=Homo sapiens GN=SLFN12 PE=2 SV=2

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AEIENEDYSYTKDGIGLDLENSFSNILLFVPEYLDQMNGNYFLIFVKSWSLNTSGLRIT  
TLSSNLYKRDITSAKVMNATAALEFLKDMKKTRGRLYLRPELLAKRPCVDIQEENNMKAL  
AGVFFDRTELDRKEKLTFTESTHVEIKNFSTEKLLQRIKEILPQYVSFANTDGGYLFIG  
LNEDKEIIGFKAEMSDLLEREIEKSIRKMPVHHFCMEKKKINYSCKFLGVYDKGSLCG  
YVCALRVERFCCAVFAKEPDSWHVKDNRVMQLTRKEWIQFMVEAEPKFSSSYEEVISQIN  
TSLPAPHSWPLLEWQRQRHHCPLSGRITYTPENLCRKLFLQHEGLKQLICEEMDSVRKG  
SLIFSRWSVDLGLQENHKVLCALLISQDSPPVLYTFHMQDEEFKGYSTQTALTLKQK  
LAKIGGYTKKVCVMTKIFYLSPEGMTSCQYDLRSQVIYEPESYYFTRRKYLLKALFKALKR  
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>sp|Q8IY92|SLX4\_HUMAN Structure-specific endonuclease subunit SLX4 OS=Homo sapiens  
GN=SLX4 PE=1 SV=3

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KKQRVTKWQASEPAHSVNGEGVLASAPDPPVLRETAQNTQTGNQQEPSNLSREKTREN  
VPNSDSQPPPSCLTTAVPSPSKPRTAQLVLQRMQQFKRADPERLRHASEECSLEAAREEN  
VPKDPQEEMMAGNVYGLGPPAPESDAVALTLQQEFARVGASAHDDSLEEKGLFFCQICQ  
KNLSAMNVTRREQHVNRCLEAEKTLRPSVPQIPECPICGKPFLTLKSRSHLKKCAVKM  
EVGPQLLLQAVRLQTAQPEGSSPPMFSFSDHSRGLKRRGPTSKKEPRKRRKVDEAPSED  
LLVAMALSRSEMEPGAAPALRLESASFSEIRPEAENKSRKKKPPVSPPLLLVQDSETTG  
RQIEDRVALLLSEEVELSSTPLPASRILKEGWERAGQCPPPERKQSFLWEGSALTGAW  
AMEDFYTARLVPLVPQRPAAQGLMQEPVPLVPPEHSELSERRSPALHGTPTAGCGSRGP  
SPSASQREHQALQDLVDLAREGLSASPWPGSGGLAGSEGTAGLDVVPGLPLTGFFVPSQ  
DKHPDRGGRTLLSLGLLVADFGAMVNNPHLSDVQFQTDSGEVLYAHKFVLYARCPPLLIQY  
VNNEGFAVEDGVLTRVLLGDVSTEAAARTFLHYLYTADTGLPPGLSSELSSLAHFRGVS  
ELVHLCEQVPIATDSEGKPWEEKEAENCESRAENFQELLRSMWADEEEEAETLLKSKDHE  
EDQENVNEAEMEEIYEFAATQRKLLQEERAAGAGEDADWLEGGSPVSGQLLAGVQVQKQW  
DKVEEMEPELEPGRDEAATTWEKMGQCALPPPQGGHSGARGAEAEQEAPEEALGHSSCSS  
PSRDCQAERKEGSLPHSDDAGDYEQLFSSTQGEISEPSQITSEPEEQSGAVRERGLEVSH  
RLAPWQASPPHPCRFLGPPQGGSPRGSHHTSGSSLSTPRSRGGTSQVGSPTLLSPAVPS  
KQKRDRSILTSKEPGHKQKERRSVLECRNKGVLMPPEKSPSIDLTQSNPDHSSRSQK  
SSSKLNEEDEVILLDSDEELELEQTKMKSISSDPLEEKKALEISPRSCELFSIIDVDAD  
QEPSQSPPRSEAVLQQEDEGALPENRGSGLGRRGAPWLFCDRESSPSEASTTDTSWLVPAT  
PLASRSRDCSSQTQISSLRGLAVQAVTQHTPRASVGNREGNEVAQKFSVIRPQTTPPPQT  
PSSCLTPVSPGTSDGRRQGHRSPSRPHPGGHPHSSPLAPHPISGDRAHFSRRFLKHSPPG  
PSFLNQTPAGEVVEVGSDDEQEVASHQANRSPPLDSDPPIPIDCCWHMEPLSPIPIDH  
WNLERTGPLSTSSPSRRMNEAADSRDCRSPGLLDTPIRGSCTTQRKLQEKSSGAGSLGN

SRPSFLNSALWDVWDGEEQRPPEPPPAQMPSAGGAQKPEGLETPKGANRKKNLPPKVPI  
TPMPQYSIMETPVLKKELDRFGVRPLPKRQMVLLKKEIFQYTHQTLDSDEDESQSSQPL  
LQAPHCQTLASQTYKPSRAGVHAQQEATTGPGAHRPKGPAKTKGPRHQKHHESITPPSR  
SPTKEAPPGLNDDAQIPASQESVATSVDGSDSSLSSQSSSSCEFGAAFESAGEEEGEGEV  
SASQAQAAADTDEALRCYIRSKPALYQKVLLYQPFELRELQAE LRQNGLRVSSRRLDF  
LDTHCITFTTAATRREKLQGRRRQPRGKKKVERN

>sp|Q99717|SMAD5\_HUMAN Mothers against decapentaplegic homolog 5 OS=Homo sapiens GN=SMAD5  
PE=1 SV=1

MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSSPG  
QPSKCVTIPRSLDGRLQVSHRGLPHVIYCRVWRWPDQLSHHELKPLDICEFPFGSKQKE  
VCINPYHYKRVPVLPVLPVRHNEFNPQHSLLVQFRNLSHNEPHMPQNATFPDSFHQP  
NNTPFPLSPNSPYPPSPASSTYPNSPASSGPGSPFQLPADTPPPAYMPDQMGQDNSQP  
MDTSNNMIPQIMPSISSRDVQPVAYEEPKHWCISVYYELNNRVGEAFHASSTSVLVDGFT  
DPSNNKSRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNC  
NFHHGFHPTTVCKIPSSCSLKIFNNQEFALLAQSVNHGF EAVYELTKMCTIRMSFVKGW  
GAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTMQGSPLNPISVS

>sp|O15079|SNPH\_HUMAN Syntaphilin OS=Homo sapiens GN=SNPH PE=1 SV=2

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WIEEECHRVEAQLALKEARKEIKQLKQVIDTVKNNLIDKDKGLQKYFVDINI QNKLETL  
LHSMVAQNGMAKEDGTGESAGGSPARSLTRSTYTKLSDPAVCGDRQPGDPSSGSAEDG  
ADSGFAAADTL SRTDALEASSLLSSGVDCGTEETSLHSSFGLGPRFPASNTYEKLLCGM  
EAGVQASCMQERAIQ TDFVQYQPDLD T ILEKVTQAQVCGTDPESGDRCPELDAHPSGPRD  
PNSAVVTVGDELEAPEPITRGPTPQRPGANPNPGQSVSVCPMEEEEEAAVAEKEPKSY  
WSRHYIVDLLAVVPAVPTVAWL CRSQRRQGQPIYNISLLRGCTVALHSIRRI SCRSL  
SQPSPSPAGGGSQ L

>sp|Q9NRH2|SNRK\_HUMAN SNF-related serine/threonine-protein kinase OS=Homo sapiens GN=SNRK  
PE=1 SV=2

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FQEVRCMKLVQHPNIVRLYEVIDTQTKLYL ILELGDGGDMFDYIMKHEEGLNEDLAKKYF  
AQIVHAISYCHKLHVVRDLKPNVVF FEKQGLVKLTDFGFSNKFQPGKKLTTSCGSLAY  
SAPEILLGDEYDAPAVDIWSLGVILFMLVCGQPPFQEANDSETLTMIMDCKYTVPSHVS  
ECKDLITRMLQRDPKRRASLEEIENHPWLQGVDPSPATKYNIP LVSYKNLSEEEHNSIIQ  
RMVLGDIADRDAIVEALETNRYNHITATYFLLAERILREKQEKEIQTRSASPSNIKAQFR  
QSWPTKIDVPQDLEDDL TATPLSHATVPQSPARAADSVLNGHRSGLCDSAKKDDLPELA  
GPALSTVPPASLKPTASGRKCLFRVEEDEDEEEDKKPMSLSTQVVLRRKPSVTNRLTSR  
KSAPVLNQIFEEGESDDEFMDENLPPKLSRLKMNIASPGTVHKRYHRRKSQGRGSSCSS  
SETSDDDSESRRRLDKDSGFTYSWHRRDSSEGGPGSEG DGGGQSKPSNASGGVDKASPSE  
NNAGGGSPSSGSGGNPTNTSGTTRRCAGPSNSMQLASRSAGELVESLKLMSLCLGSQLHG  
STKYIIDPQNGLSFSSVKVQEKSTWKMCI STGNAGQVPAVGGIKFFSDHMA DTTTELER  
IKSKNLKNNVLQLPLCEKTISVNIQRNPKEGLLCASSPASCCHVI

>sp|P09012|SNRPA\_HUMAN U1 small nuclear ribonucleoprotein A OS=Homo sapiens GN=SNRPA PE=1  
SV=3

MAVPETRPNHTIYINNLNEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFK

EVSSATNALRSMQGFPHYDKPMRIQYAKTDSIIAKMKGTFVERDRKREKRKPKSQETPA  
TKKAVQGGGATPVVGAVQGPVPGMPPMTQAPRIMHHMPGQPPYMPPPGMIPPPGLAPGQI  
PPGAMPPQQLMPPGQMPAQLSENPPNHILFTNLPEETNELMLSMLFNQFPGFKEVRLV  
PGRHDI AFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

>sp|043290|SNUT1\_HUMAN U4/U6.U5 tri-snRNP-associated protein 1 OS=Homo sapiens GN=SART1  
PE=1 SV=1

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EETNKLRAKLGLKPLEVNAIKKEAGTKEEPVTADV INPMALRQEELREKLAAAKEKRLL  
NQKLGIKIKTLGEDDPWLDDTAAWIERSRQLQKEKDLAEKRAKLEEMDQEFVSTLVEEE  
FGQRRQDLYSARDLQGLTVEHAIDSFREGETMILTLKDKGVLQEEEDVLVNVNLVDKERA  
EKNVELRKKKPDYLPYAEDSVDDLAQQKPRSILSKYDEELEGERPHSFRLEQGGTADGL  
RERELEEIRAKLRLQAQSLSTVGPRLASEYLTPEEMVTFKKT KRRVKKIRKKEKEVVVRA  
DDLLPLGDQTDGDFGSRLRGRRRRVSEVEEEKEPVPQPLPSDDTRVENMDISDEEEGG  
APPPGSPQVLEEDEAELELQKLEKGRRLRQLQQLQQLRDSGEKVVEIVKKLESRQRCWE  
EDEDPERKGAIVFNATSEFCRTLGEIPTYGLAGNREEQEELMDFERDEERSANGGESDGE  
EENIGWSTVNLDEEKQQQDFSASSTTILDEEPIVNRGLAAALLLCQNKGLLETTVQKVAR  
VKAPNKS LPSAVYCIEDKMAIDDKYSRREEYRGFTQDFKEKDGYPDKIEYVDETGRKL  
TPKEAFRQLSHRFHGKSGGKMKTERRMKKLDEEALLKKMSSSDTPLGTVALLQEKQKAQK  
TPYIVLSGSGKSMNANTITK

>sp|Q9Y5W8|SNX13\_HUMAN Sorting nexin-13 OS=Homo sapiens GN=SNX13 PE=1 SV=4

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YTLSDDESFLLEIRQTLQNALIQFATRSKEIDWQPYFTTRIVDDFGTHLRVFRKAQQKIT  
EKDDQVKGTAEDLDVTFEVEVEMEKEVCRDLVCTSPKDEEGFLRDLCEVLLYLLLPPGD  
FQNKIMRYFVREILARGILLPLINQLSDPDYINQYVIWMIRDSNKNYEAFMNI IKLSdni  
GELEAVRDKAAEELQYLRSLDTAGDDINTIKNQINSLLFVKKVCDSRIQRLQSGKEINTV  
KLAANFGKLCTVPLDSILVDNVALQFFMDYMQQTGGQAHLFFWMTVEGYRVTAQQQLEVL  
LSRQRDGKHQTNQTKGLLRAAAVGIEQYLSEKASPRVTDDYLVAKLADTLNHEDPTPE  
IFDDIQRKVYELMLRDERFYPSFRQNALYVRMLAELDMLKDPFRGSDDGESFNGSPT  
GSINLSLDDL SNVSSDDSVQLHAYISDTVYADYDPYAVAGVCNDHGKTYALYAITVHRRN  
LNSEEMWKTYRRYSDFHDFHMRITEQFESLSSILKLPGKKT FNNMDRDFLEKRKKDLNAY  
LQLLLAPEMMKASPALAHYVYDFLENKAYSKGKGFARKMDTFVNPLRNSMRNVSNAVKS  
LPDSLAEGMTKMSDNMGKMSERLGQDIKQSFFKVPPLIPKTDSDPEHRRVSAQLDDNVDD  
NIPLRVMLLLMDEVFDLKERNQWLRRNIKNLLQQLIRATYGDTINRKIVDHVDWMTSPEQ  
VADSVKRFRDAFWPNGILAEAVPCRDKSIRMTRVAGTKLLAIMPDELKHIIGAETTRK  
GILRVFEMFQHNQLNRRMVYVFLEGFLETLPQYKFREL FNKLHSRSKMQMKYKQKLQTT  
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>sp|Q7Z614|SNX20\_HUMAN Sorting nexin-20 OS=Homo sapiens GN=SNX20 PE=1 SV=1

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QQYWQNQKCRWKHVKLLFEIASARIEERKVSKFVVYQIIIVIQTSFDNNKAVLERRYSDF  
AKLQKALLKTFREEIEDVEFPRKHLTG NFAEEMICERRRALQEYLGLLYAIRCVRRSREF  
LDLFTRP ELREAFGCLRAGQYPRALELLLRVLPLQEKLTAHCPAAAVPALCAVLLCHRD  
DRPAEFAAAGERALQRLQAREGHRYYAPLLDAMVRLAYALGKDFVTLQERLEESQLRRPT

PRGITLKELTVREYLH

>sp|Q9Y5X2|SNX8\_HUMAN Sorting nexin-8 OS=Homo sapiens GN=SNX8 PE=1 SV=1

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LHKFPYRMVPALPPKRMLGADREFIEARRRALKR FVN LVARHPLFSEDVVLKFLSFSGS  
DVQNKLKESAQC VGDEF LNCKLATRAKDFLPADIQAQFAISRELIRNIYNSFHKLDRAE  
RIASRAIDNAADLLIFGKELSAIGSDTTPLPSWAALNSSTWGLKQALKGLSVEFALLAD  
KAAQQGKQEENDVVEKLNFLDLLQSYKDL CERHEKGVLHKKHQRALHKYSLMKRQMSAT  
AQNREPESVEQLESRIVEQENAIQTMELRNYFSLYCLHQETQLIHVYLPLTSHILRAFVN  
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>sp|Q9BZZ2|SN\_HUMAN Sialoadhesin OS=Homo sapiens GN=SIGLEC1 PE=1 SV=2

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YDYSQQRQVVSADPKLVEARFRGRTEFMGNPEHRVCNLLLKDLQPEDSGSYNFRFEIS  
EVNRWSDVKGTLVTVTEEPVPTIASPVELLEGTEVDFNCSTPYVCLQE QVRLQWQGQDP  
ARSVTFNSQKFEPTGVGHLETLHMAMSWQDHGRILRCQLSVANHRAQSEIHLQVKYAPKG  
VKILLSPSGRNILPGELVTLTCQVNSSYPVSSIKWLKDGVR LQTKTGVLHLPQAAWSDA  
GVYTCQAENGVGSLSPPISLHIFMAEVQVSPAGPILENQTVTLVCNTPNEAPSDLRYSW  
YKNHVLLLEDAHSHTLRHLATRADTG FYFCEVQNVHGSESGPVSVVNHPP LTPVLTAF  
LETQAGLVGILHCSVVSEPLATLVLSHGHHILASTSGSDHSPRFSGTSGPNSLRLEIRD  
LEETDSGEYKCSATNSLGNATSTLDFHANAARLLISPAAEVVEGQAVTLSCRSGLSPTPD  
ARFSWYLN GALLHEGPGSSLLLPAASSTDAGSYHCRARDGHSASGPSPAVLTVLYPPRQ  
PTFTTRLDLDAAGAGARRG LLLCRVDS DPPARLQLLHKDRVVATSLPSGGGCSTCGGCS  
PRMKVTKAPNLLRVEIHNPLLEEEGLYLCEASNALGNASTSATFNGQATVLA IAPSHTLQ  
EGTEANLTCNVSREAAGSPANF SWFRNGVLWAQGPLETVTLTPVARTDAALYACRILTEA  
GAQLSTPVLLSVLYPPDRPKLSALLDMGQGHMALFICTVDSRPLALLALFHGEHLLATSL  
GPQVPSHGRFQAKAEANSLKLEVRELGLGDSGSYRCEATNVLGSSNTSLFFQVRGAWVQV  
SPSPELQEGQAVVLSQCQVHTGVPEGTSYRWYRDGQPLQESTSATLRF AAITLTQAGAYHC  
QAAQPGSATTSLAAPISLHVSYAPRHVTLTTLMDTGPGRLG LLLCRVDS DPPAQLRLLHG  
DRLVASTLQGVGPEGSSPRLHVAVAPNTRLREIHGAMLEDEGVYICEASNTLGQASASA  
DFDAQAVNVQVWP GATVREGQLVNL TCLVWTHPAQLTYTWYQDGGQRLDAHSIPLPNVT  
VRDATSYRCGVGPPGRAPRLSRPITLDVLYAPRNLRLTYLLESHGGQLALVLCTVDSRPP  
AQLALSHAGRLLASSTAASVPNTRLREL RGPQRDEGFYSCSARSPLGQANTSLELRLEG  
VRVILAPEAAVPEGAPITVTCADPAAHAPTLYTWYHNGRWLQEGPAASLSFLVATRAHAG  
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HDGKVLATSSGVHSLASGTGHVQVARNALRLQVQDVPAGDDTYVCTAQNLGSI STIGRL  
QVEGARVVAEPGLDVPEGAALNLSCRL LGPGPVGNSTFAWFWNDRRLHAEPVPTLAFTH  
VARAQAGMYHCLAE LPTGAAASAPVMLRVL YPPKTPTMMVFVEPEGGLRGILDCRVDSEP  
LASLTLHLGSRLVASSQPQGAPAEPIHVLASPNALRVDIEALRPSDQGEYIC SASNVLG  
SASTSTYFGVRALHRLHQFQQLLWVLG LLVGLLLLLLGLGACYTWRRRRRVCKQSMGENSV  
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>sp|Q9Y6L6|S01B1\_HUMAN Solute carrier organic anion transporter family member 1B1 OS=Homo sapiens GN=SLC01B1 PE=1 SV=2

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YRYSKETNINSENSTSTLSTCLINQILSLNRASPEIVGKGCLKESGSYMWIYVFMGNML  
RGIGETPIVPLGLSYIDDFAKEGHSSLYLGILNAIAMIGPIIGFTLGSLSFSKMYVDIGYV  
DLSTIRITPTDSRWVGAWWLNFLVSGLSFISSIPFFFLPQTPNKPQKERKASLSLHVLE  
TNDEKDQTANLTNQGNITKNVTGFFQSFKSILTNPLYVMFVLLTLLQVSSYIGAFTYVF  
KYVEQQYGGPSSKANILLGVITIPFASGMFLGGYIIKKFKLNTVGIKFSCTAVMSLS  
FYLLYFFILCENKSVAGLTMTYDGNNPVTSHRDVPLSYCNSDCNCDESQWEPVCGNNGIT  
YISPLAGCKSSSGNKKPIVFYNCSCLEVTGLQNRNYS AHLGECPRDDACTRKFYFFVAI  
QVLNLFPSALGGTSHVMLIVKIVQPELKSALGFHSMVIRALGGILAPIYFGALIDTTCI  
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>sp|Q9NPD5|S01B3\_HUMAN Solute carrier organic anion transporter family member 1B3 OS=Homo sapiens GN=SLC01B3 PE=1 SV=1

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RGIGETPIVPLGISYIDDFAKEGHSSLYLGSNAIGMIGPVIGFALGSLSFAKMYVDIGYV  
DLSTIRITPKDSRWVGAWWLGFLVSGLSFISSIPFFFLPKPNKPQKERKISLSLHVLE  
TNDDRNTANLTNQGNVTKNVTGFFQSLKSILTNPLYVIFLLLTLQVSSFIGSFTYVF  
KYMEQQYGGQSASHANFLGIIITPTVATGMFLGGFIKKFKLSLVGIKFSFSLTSMISFL  
FQLLYFPLICESKSVAGLTLYTDGNNSVASHVDVPLSYCNSECNCDESQWEPVCGNNGIT  
YLSPCLAGCKSSSGIKKHTVFYNCSCVEVTGLQNRNYS AHLGECPRDNTCTRKFFIYVAI  
QVINSLF SATGGTTFILLTVKIVQPELKALAMGFQSMVIRTLGGILAPIYFGALIDKTCM  
KWSTNSCGAQACRIYNSVFFGRVYGLSLIALRFPALVLYIVFIFAMKKKFQKDKTASD  
NERKVMDEANLEFLNNGEHFVPSAGTDSKTCNLDMQDNAAAN

>sp|Q3B7S5|SMI21\_HUMAN Small integral membrane protein 21 OS=Homo sapiens GN=SMIM21 PE=4 SV=1

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VMVLLRNHSRIQGVSEDWKRANSIFRNFLRLKSSRNATAEAE

>sp|B2RUZ4|SMIM1\_HUMAN Small integral membrane protein 1 OS=Homo sapiens GN=SMIM1 PE=1 SV=1

MQPQESHVHYSRWEDGSRDGVSLGAVSSTEEASRCRRISQRLCTGKLGIAMKVLGGVALF  
WIIFILGYLTGYVYHKCK

>sp|O43623|SNAI2\_HUMAN Zinc finger protein SNAI2 OS=Homo sapiens GN=SNAI2 PE=1 SV=1

MPRSFLVKKHFNASKKPNYSELDHTVVISPYLYESYSMPVIPQPEILSSGAYSPITVWT  
TAAPFHAQLPNGLSPLSGYSSSLGRVSPPPSDTSSKDHSGSESPISDEEERLQSKLSDP  
HAIEAEKFQCNLCNKTYSTFSGLAKHKQLHCDAQSRKSFSCKYCDKEYVSLGALKMHIRT  
HTLPCVCKICGAFSRPWLQGHIRTHTGEKPFSCPHCNRAFADRSNLRAHLQTHSDVKK  
YQCKNCSKTFSRMSLLHKHEESGCCVAH

>sp|Q13487|SNPC2\_HUMAN snRNA-activating protein complex subunit 2 OS=Homo sapiens GN=SNAPC2 PE=1 SV=1

MKPPPRRRAAPARYLGEVTGPATWSAREKRQLVRLQLARQGQPEPDATLARELRGRSEA  
EIRVFLQQLKGRVAREAIQKVHPGGLQGPRRREAQPPAPIEVWTDLAEKITGPLEEALAV  
AFSQVLTIAATEPVTLLHSKPPKPTQARGKPLLSAPGGQEDPAPEIPSSAPAAPSSAPR  
TPDPAPEKPSSEAGPSTEEDFAVDFEKIYKYLSSVSRSGRSPELSAAESAVVLDLLMSL

PEELPLLCTALVEHMTETYRLTAPQIPAGGSLGPAAEGDGAGSKAPEETPPATEKAE  
HSELKSPWQAAGICPLNPFLVPLELLGRAATPAR

>sp|Q5SXM2|SNPC4\_HUMAN snRNA-activating protein complex subunit 4 OS=Homo sapiens  
GN=SNAPC4 PE=1 SV=1

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DLAGSKGTKVKDGKSLPPSTYMGHFMKPYFKDKVTGVGPPANEDTREKAAQGKAFEELL  
VTWKWNWEKALLRKS VVSDRLQRLLQPKLLKLEYLHQKQSKVSSELERQALEKQGREAEK  
EIQDINQLPEEALLGNRLDSHDWEKISNINFEGRSRAEIRKFWQNSEHPSINKQEWSRE  
EEERLQAIAAAHGHLEWQKIAEELGTSRSAFQCLQKFQQHNKALKRKEWTEEDRMLTQL  
VQEMRVGSHIPYRRIVVYMEGRDSMQLIYRWTKSLDPGLKKGYWAPEEDAKLLQAVAKYG  
EQDWFKIREEVPGRSDAQCRDYLRLHFSLKKGRWNLKEEQLIELIEKYGVGHWAKIA  
SELPHRSGSQCLSKWKIMMGKKQLRRRRRRRARHSVRWSSTSSSGSSSGSSGSSSSSSSS  
SSEDEPEQAQAGEGDRALLSPQYMPDMDLWVPARQSTSQPWRGGAGAWLGGAASLSP  
PKGSSASQGSKEASTTAAAPGEETSPVQVPARAHGPVPRSAQASHADTRPAGAEKQAL  
EGGRLLTVPVETVLRVLRANTAARSCTQKEQLRQPPLPTSSPGVSSGDSVARSHVQWLR  
HRATQSGQRRWRHALHRLLNRRLLLA VTPWVGDVVPCTQASQRPVAVQTQADGLREQL  
QQARLASTPVFTLFTQLFHIDTAGCLEVVREKALPPRLPQAGARDPPVHLLQASSSAQS  
TPGHLPNPVPAQEASKSASHKGSRRLASSRVERTLPQASLLASTGPRPKPKTVSELLQEK  
RLQEARAREATRGPVVLPSQLLVSSSVILQPPLPHTPHGRPAPGPTVLNVPLSGPGAPAA  
AKPGTSGSWQEAGTSAKDKRLSTMQALPLAPVFSEAEGTAPAASQAPALGPGQISVSCPE  
SGLGQSQA PAASRKQGLPEAPPFLPAAPSPTPLPVQPLSLTHIGGPHVATSVPLPVTWVL  
TAQGLLPVPVPAVVS LPRPAGTPGPAGLLATLLPPLTETRAAQPRAPALSSSWQPPANM  
NREPEPSCRTDTPAPPTHALSQSPA EADGSVAFVPGEAQVAREIPEPRTSSHADPPEAEP  
PWSGRLP AFGVIPATEPRGTPGSPSGTQEPRGPLGLEKLPLRQPGPEKGALDLEKPLP  
QPGPEKGALDLGLLSQEGEAATQQWLGGRQGV RVPLLGSRLPYQPPALCSLRALSGLLLH  
KKALEHKATSLVVGGEAERPAGALQASLGLVRGQLQDNPAYLLLRARFLAAFTLPALLAT  
LAPQGVRTT LSVPSRVGSESEDEDLLSELELADRDGQPGCTTATCPIQGAPDSGKCSASS  
CLDTSNDPDDL DVLRTRHARHTRKRRRLV

>sp|Q13425|SNTB2\_HUMAN Beta-2-syntrophin OS=Homo sapiens GN=SNTB2 PE=1 SV=1

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PALGPA AA AFNGLPNGGAGDSLPGSPSRGLGPPSPAPPRGPAGEAGASPPVRRVRVVK  
QEAGGLGISIKGGRENMPILISKIFPGLAADQS RALRLGDAILSVNGTDLRQATHDQAV  
QALKRAGKEVLLEVKFIREVTPYIKKPSLVSDLPWEGAAPQSPSFGSEDSGSPKHQNST  
KDRKI IPLKMCFAARNLSMPDLENRLIELHSPDSRNTLILRCKDTATAHSWFVAIHTNIM  
ALLPQVLAELNAMLGATSTAGGSKEVKHIAWLAEQAKLDGGRQQWRPVLMVTEKD LLLY  
DCMPWTRDAWASPCHSYPLVATRLVHSGSGCRSPSLGSDLT FATRTGSRQGIEMHLFRVE  
THRDLSSWTRILVQGCHAAELIKEVSLGCMLNGQEVRLTIHYENGFTISRENGGSSSIL  
YRYPFERLKMSADDGIRNLYLDFGGPEGELTMDLHSCPKPIVFLHTFLSAKVTRMGLLV

>sp|Q9UMY4|SNX12\_HUMAN Sorting nexin-12 OS=Homo sapiens GN=SNX12 PE=1 SV=3

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FKLKESCVRRRYSDFEWLKNELERDSKIVPPLPGKALKRQLPFRGDEGIFEE SFIEERR  
QGLEQFINKIAGHPLAQNERCLHMFLQEEAIDRNYVPGKSLAVSCPGWSAVA

>sp|Q9NRS6|SNX15\_HUMAN Sorting nexin-15 OS=Homo sapiens GN=SNX15 PE=1 SV=1

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DLAYTHRNLFRRLEEFPAFPRAQVFRFEASVIEERRKGAEDLLRFTVHIPALNNSPQLK  
EFFRGGEVTRPLEVSRDLHILPPPLIPTPPDDPRLSPLLPAERRGLEELEVVDPPSS  
PAQEALDLLFNCESTEEASGSPARGPLTEAELALFDPFSKEEGAAPSPTHVAELATMEVE  
SARLDQEPWEPGGQEEEEDEGGGPTPAYLSQATELITQALRDEKAGAYAAALQGYRDGVH  
VLLQGVPDPLPARQEGVKKKAAEYLKRAEEILRLHLSQLPP

>sp|Q96RF0|SNX18\_HUMAN Sorting nexin-18 OS=Homo sapiens GN=SNX18 PE=1 SV=2

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APEPGPAGDGGPGAPARYANVPPGGFEPLVAPPASFKPPDAFQALLQPQQAPPSTFQ  
PPGAGFPYGGGALQSPQQLYGGYQASQGSDDDWDEWDDSTVADEPGALGSGAYPDLD  
GSSSAGVGAAGRYRLSTRSDLGSRGGSVPPQHHPSPGPKSSATVSRNLNRFSTFVKSGG  
EAFVLGEASGFVKDGDKLCVVLGPYGPWEQENPYPFQCTIDDPTKQTKFKGMKSYISYKL  
VPTHTQVPVHRRYKHFDWLYARLAEKFPVISVPHLPEKQATGRFEEDFISKRRKGLIWM  
NHMAHPVLAQCDVFQHFLTCPSSSTDEKAWKQGRKAEKDEMVGANFFLTLPAAALD  
LQEVESKIDGFKCFTKKMDDSALQLNHTANEFARKQVTGFKKEYQKVGQSFRGLSQAFEL  
DQQAFSVGLNQAIIFTGDAYDAIGELFAEQPRQDLDPVMDLLALYQGHANFPDI IHVQK  
GKAWPLEQVIWSVLCRLKGATLTAVPLWVSESYSTGEEASRDVDAWVFSLECKLDCSTGS  
FLLEYLALGNEYSFSKVQRVPLMTVLSF

>sp|Q86XE0|SNX32\_HUMAN Sorting nexin-32 OS=Homo sapiens GN=SNX32 PE=1 SV=1

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QELEAEYLAIFKKTAMHEVFLQRLAAHPTLRDHNFFVFLEYGQDLSVRGKNRKELLGG  
FLRNIVKSADEALITGMSGLKEVDDFFEHERTFLLYHTRIRDACLADRVMAHKCLAD  
DYIPIAALSSLGTQEVNQLRTSFLKLAELFERLRKLEGRVASDEDLKLSDMLRYMRDS  
QAAKDLLYRRLRALADYENANKALDKARTRNREVRPAESHQQLCCQRFERLSDSAKQELM  
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>sp|Q9UNH7|SNX6\_HUMAN Sorting nexin-6 OS=Homo sapiens GN=SNX6 PE=1 SV=1

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EFTKMKQELEAEYLAIFKKTAMHEVFLCRVAAHPILRRDLNFHVFLYEQDLSVRGKNK  
KEKLEDFFKNMVKSADGVIVSGVKDVDDFFEHERTFLLYHNRVKDASAKSDRMTRSHKS  
AADDYNRIGSSLYALGTQDSTDICKFFLKVSELDKTRKIEARVSADEDLKLSDLLKYYL  
RESQAAKDLLYRRSRSLVDYENANKALDKARAKNKDVLQAETSQQLCCQKFEKISESAKQ  
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>sp|G3VOH7|S01B7\_HUMAN Putative solute carrier organic anion transporter family member  
1B7 OS=Homo sapiens GN=SLC01B7 PE=5 SV=1

MKISTTQIERRFEISSSLVGLIDGSFEIGNLFVIVFVSYFGSKLHRPKLIGICFLMGTG  
SILMALPHFFMGYYRYSKETNIDPENSTSNLPNCLINQMLSLNRTPEIIERGCVKESG  
SHMWIYVFMGNMLRGIGETPIVPLGISYIDDFAKEGHSSLYLGTVNVMGMTGLVFAFMLG  
SLFAKMYVDIGYVDLSTIRITPKDSRWGAWWLGFVSGIVSIISSIPFFFLPLNPNKPQ  
KERKVSFLHLVKTNDKRNQIANLTNRKYITKNVTGFFQSLKSILTNPLYVIFVIFTLL  
HMSSYIASLTYIIKMVEQQYGWSASKTNFLLGVLALPAVAIGMFSGGYIIKKFKLSLVGL  
AKLAFCSATVHLLSQVLYFFLICESKSVAGLTLYDGNPVRSHVDVPLSYCNSECNCDE  
SQWEPVCGNNGITYLSPCLAGCKSSSGNKEIVFYNCSCVEVIGLQNKNYSAHLGECPRD



DACTRKSYYVYFVIQVLDAFLCAVGLTSYSVLVIRIVQPELKALAI GFHSMIMRSLGGILV  
PIYFGALIDTTCKMWSTNSCGARGACRIYNSTYLGRAFFGLKVALIFPVLVLLTVFIFVV  
RKKSHGKDTKVLENERQVMDEANLEFLNDSEHFVPSAEEQ

>sp|Q9NYB5|S01C1\_HUMAN Solute carrier organic anion transporter family member 1C1 OS=Homo sapiens GN=SLC01C1 PE=2 SV=1

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VGTLLIAMPQFFMEQYKYERYSPSSNSTLSISPCLLESSSQLPVSMEEKSKSKISNECEV  
DTSSSMWIIYVFLGNLLRGIGETPIQPLGIAYLDDFASEDNAAFYIGCVQTVAIIGPIFGF  
LLGSLCAKLYVDIGFVNLDHITITPKDPQWVGAWWLGYLIAGIISLLAAVPFWYLPKSLP  
RSQSREDSNSSSEKSKIIDDHTDYQTPQGENAKIMEMARDFLPSLKNLFGNPVYFLYLC  
TSTVQFNSLFGMVTYKPKYIEQQYGQSSSRANFVIGLINIPAVALGIFSGGIVMKKFRIS  
VCGAAKLYLGSSVFGYLLFLSLFALGCENS D VAGLTVSYQGTPVSYHERALFSDCNSRC  
KCSETKWEPMCENGITYVSACLAGCQTSNRSGKNIIFYNCTCVGIAASKSGNSSGIVGR  
CQKDNCGCPQMFLYFLVISVITSYTLSLGGIPGYILLRCIKPQLKSFALGIYTLAIRVLA  
GIPAPVYFGVLIDTSLCKWGFKRCGRGSCRLYDSNVFRHIYLGTLVILGTVSILLSIAV  
LFILKKNYVSKHRSFITKRERTMVSTRFQKENYTTSDHLLQPNYWPGKETQL

>sp|Q92959|S02A1\_HUMAN Solute carrier organic anion transporter family member 2A1 OS=Homo sapiens GN=SLC02A1 PE=1 SV=2

MGLLPKLGASQGS D TSTSRAGRCARSVFGNIKVFVLCQGLLQLCQLLYSAYFKSSLTIE  
KRFGLSSSSSGLISSLNEISNAILIIFVSYFGSRVHRPRLIGIGGLFLAAGAFILTLPHF  
LSEPYQYTLASTGNNRLQAELCQKHWDLPPSKCHSTTQNPQKETSSMWGLMVVAQLLA  
GIGTVPIQPFGISYVDDFSEPSNSPLYISILFAISVFGPAFGYLLGSVMLQIFVDYGRVN  
TAAVNLPVPGDPRWIGAWWLGLLISSALLVLTSPFFFFPRAMPIGAKRAPATADEARKLE  
EAKSRGSLVDFIKRFPICFLRLMNSLFLVLVLAQCTFSSVIAGLSTFLNKFLEKQYGTS  
AAYANFLIGAVNLPAAALGMLFGGILMKRFVFSLQAIPRIATTIITISMILCVPLFFMGC  
STPTVAEVYPPSTSSSIHPQSPACRRDCSCPDSIFHPVCGDNGIEYLS PCHAGCSNINMS  
SATSKQLIYLNCSCTVGGASAKTGSCPVCAHFLPAIFLISFVSLIACISHNPLYMMV  
LRVVNQEEKSFAIGVQFLMRLLAWLPSPALYGLTIDHSCIRWNSLCLGRRGACAYDND  
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>sp|094956|S02B1\_HUMAN Solute carrier organic anion transporter family member 2B1 OS=Homo sapiens GN=SLC02B1 PE=1 SV=2

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GAILVALAGLLMTLPHFISEPYRYDNTSPEDMPQDFKASLCLPTTSAPASAPSNGCSSY  
TETQHLSVVGIMFVAQTLLGVGGVPIQPFGISYIDDFAHNSNSPLYLGILFAVTMMGPGL  
AFGLGSLMLRLYVDINQMPEGGISLTIKDPRWVGAWWLGFLLAAGAVALAAIPYFFFPKE  
MPKEKRELQFRRKVLAVTDS PARKGKDSPSKQSPGESTKKQDGLVQIAPNLTVIQFIKVF  
PRVLLQTLRHPIFLLVVL SQVCLSSMAAGMAIFLPKFLERQFSITASYANLLIGCLS FPS  
VIVGIVVGGVLVKRHLGPVGCALCLLGMLLCLFFSLPLFFIGCSSHQIAGITHQ TSAH  
PGLELSPSCMEACSCPLDGFNPVCDPSTRVEYITPCHAGCSSWVVDALDNSQVFYTNCS  
CVVEGNPVLGSCDSTCSHLVVPFLLVSLGSALACLHTTPSFMLILRGVKKEDKTLAVG  
IQMFMLRILAWMPSPV IHGSAIDTTCVHWALSCGRRACRYNNDDLNRNRFI GLQFFFKT  
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>sp|Q86UG4|S06A1\_HUMAN Solute carrier organic anion transporter family member 6A1 OS=Homo sapiens GN=SLC06A1 PE=2 SV=2

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VVFGLIDVSIQDFQKEYQLKTIEKLALAKSYDISSGLVAIFIAFYGDRKKVIWVFASSFL  
IGLGSLLCAFPSINEENKQSKVGIEDICEEIKVVSGCQSSGISFQSKYLSFFILGQTVQG  
IAGMPYLILGITFIDENVATHSAGIYLGIAECTSMIGYALGYVLGAPLVKVPENTTSATN  
TTVNGSPEWLWTWWINFLFAAVVAWCTLIPLSCFPNMMPGSTRKARKRKLHFFDSRL  
KDLKLTNIKDLCAALWILMKNPVLICLALS KATEYLVII GASEFLPIYLENQFILPTV  
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QFAGINEDYDGTGKLGNLTA PCNEKCRCS SSIYSSICGRDDIEYFSPCFAGCTYSKAQNN  
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LAMTRVVPDKLRSLALGVSYVILRIFGTIPGPSIFKMSGETSCILRDVNKCGHTGRCWIY  
NKTKMAFLLVGICFLCKLCTIIFTTIAFFIYKRRLNENTDFPDVTVKNPKVKKKEETDL

>sp|Q3KNW5|SOAT\_HUMAN Solute carrier family 10 member 6 OS=Homo sapiens GN=SLC10A6 PE=1 SV=2

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GDMDLSISMTTCSTVAALGMMPLCIYLYTWSWSLQQNL TIPYQNIGITLVCLTIPVAFGV  
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GFLALFTHQSWQRCRTISLETGAQNIQMCITMLQLSFTAHLVQMLS FPLAYGLFQLID  
GFLIVAAYQTYKRRLKNKHGKKNSGCTEVCHTRKSTSSRETNAFLEVNEEGAITGPPGP  
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>sp|A7XYQ1|SOBP\_HUMAN Sine oculis-binding protein homolog OS=Homo sapiens GN=SOBP PE=1 SV=2

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HGSVP IIVPLIPPPFIKPPAEDDVSNVQIMCAWCQKVG I KRYSLSMGSEVKSFCSKCF  
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NVIVNGTRGAAAEGAKSAEPPPEQPPPPPPAPPKKLSPEEPVAVSELESVKENNCASNC  
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>sp|O14512|SOCS7\_HUMAN Suppressor of cytokine signaling 7 OS=Homo sapiens GN=SOCS7 PE=1 SV=2

MVFRNVGRPPEEEDVEAAPEPGPSELLCPRHRCALDPKALPPGLALERTWGPAAGLEAQL  
AALGLGQPAGPGVKTVGGGCCPCPCPPQPPPPQPPAAAQAGEDPTETSDALLVLEGL

ESEAESLETNSCSEELSSPGRGGGGGRLLLQPPGPELPPVPFPLQDLVPLGRLSRGEQ  
QQQQQQPPPPPPPPGRLRPLAGPSRKGSKIRLSRLFRTKSCNGSGGGDGTGKRPSGE  
LAASAASTDMGGSAGRELDAGRPKLRTQSAFSPVSFSPLFTGETVSLVDVDSQRGL  
TSPHPPTPPPPRRSLSLDDISGTLPTSVLVAPMGSSLQSFPLPPPPPPHAPDAFPRIA  
PIRAAESLHSQPPQHLQCPLYRPDSSSFAASLRELEKCGWYWGPMNWEDAEMKLKGPDPG  
SFLVRDSSDPRIYILSLSFRSQGITHHTRMEHYRGTFSLWCHPKFEDRCQSVVEFIKRAIM  
HSKNGKFLYFLRSRVPGLPPTPVQLLYPVSFRFSNVKSLQHLCRFRIRQLVRIDHIPDLPL  
PKPLISYIRKFYYYPQEEVYLSLKEAQLISKQKQEVPEPST

>sp|Q9NX45|SOLH2\_HUMAN Spermatogenesis- and oogenesis-specific basic helix-loop-helix-  
containing protein 2 OS=Homo sapiens GN=SOHLH2 PE=2 SV=2

MASSIICQEHQCISGQAKIDILLVGDTVGYLADTVQKLFANIAEVTITISDTKEAAALL  
DDCIFNMVLLKVPSSLSAELEAIKLIRFGKKKNTHSLFVFIIPENFKGCISGHGMIAL  
TEPLTMEKMSNVVKYWTTCPSNTVKTENATGPEELGLPLQRSYSEHLGYFPTDLFACSES  
LRNGNGLELNASLSEFEKNKKISLLHSSKEKLRERIKYCCEQLRTLTPYVKGRKNDAAAS  
VLEATVDYVKYIREKISPAVMAQITEALQSNMRFCCKQQTPIELSLPGTVMAQRENSVMS  
TYSPEGLQFLTNTCWNGCSTPDAESSLDEAVRVPSSSASENAIGDPYKTHISSAASLN  
SLHTVRYYSKVTPSYDATAVTNQNISIHLPSAMPPVSKLLPRHCTSGLGQTCTTHPNCLQ  
QFWAY

>sp|Q6X4U4|SOSD1\_HUMAN Sclerostin domain-containing protein 1 OS=Homo sapiens GN=SOSTDC1  
PE=1 SV=2

MLPPAIHFYLLPLACILMKSLAFKNDATILYSHVVKPVPAPHPSSNSTLNQARNGGRHF  
SNTGLDRNTRVQVGCRELSTKYISDGQCTSIISPLKELVCAGECLPLVLPNWIGGGYGT  
KYWSRRSSQEWRCVNDKTRTQRIQLQCQDGSTRYKITVVTACKCKRYTRQHNESSHNFE  
SMSPAKPVQHHRERKRASKSSKHSMS

>sp|P35713|SOX18\_HUMAN Transcription factor SOX-18 OS=Homo sapiens GN=SOX18 PE=1 SV=2

MQRSPPGYGAQDDPPARRDCAWAPGHGAAADTRGLAAGPAALAAPAAPASPPSPQRSPPR  
SPEPGRYGLSPAGRGERQAADSRIRPMNAFMVWAKDERKRLAQNPDLHNAVLSKMLG  
KAWKELNAAEKRPFVEEAERLVRVQHLDHPNYKYRPRRKKQARKARRLEPGLLLPGLAPP  
QPPPEPFPAASGSARAFRELPLGLAEFDGLGLPTERSPLDGLPEGAFFPPPAAPEDC  
ALRPFRAFYAPTELSRDPGGCYGAPLAEALRTAPPAAPLAGLYYGTLTGTPGPYPGPLSPP  
PEAPPLESAEPLGPAADLWADVLTDFDQYLNCSTRTPDAPGLPYHVALAKLGPAMSCP  
EESLISALSDASSAVVYSACISG

>sp|Q13342|SP140\_HUMAN Nuclear body protein SP140 OS=Homo sapiens GN=SP140 PE=1 SV=2

MAQQGQGGQMASGDSNLNFRMVAEIQNVEGQNLQEVCPEPIFRFFRENKVEIASAITRP  
FPFLMGLRDRSFISEQMYEHFQEAFRNLVPVTRVMYCVLSELEKTFGWSHLEALFSRINL  
MAYPDLNEIYRSFQNVCYEHSPLQMNNVNDLEDPRLLPYGKQENSACHEMDDIAPVQE  
ALSSSPRCEPGFSSESCQLALPKAGGDAEDAPSLPGGGVSCKLAIQIDEGESEEMPK  
LLPYDTEVLESNGMIDAARTYSTAPGEKQGEEEGRNSPRKRNQDKEYQESPEGRDKETF  
DLKTPQVTNEGEPEKGLCLLPGEGEEGSDDCSEMCDGEEPQEASSSLARCGSVSCLSAET  
FDLKTQVTNEGEPEKELSLLPGEGEEGSDDCSEMCDGEERQEASSSLARRGSVSSELEN  
HPMNEEGESEELASSLLYDNVPGAQESAYENEKCSVMCFSEEVPGSPEARTESDQACGT  
MDTVDIANNSTLKGPKRKRKRGRGHGWSRMRMRQENSQQNDNSKADGGQVSSEKKANVN  
LKDSLKIRGRKRGKPGTRFTQSDRAAQKRVRSRASRKHKDETVDFKAPLLPVTGCGVKGI  
LHKKKLQGGILVKCIQTEDGKWFPTFEFEIKGGHARSKNWRLSVRCGGWPLRWLMENGFL

PDPPIRIRYRKKRILKSQNNSSVDPICMRNLDECEVCRDGGELFCCDTCRVFHEDCHIPP  
VEAERTPWNCIFCRMKESPGSQCCQESEVLERQMCPEEQLKCEFLLLKVYCCSESSFFA  
KIPYYYYIIEACQLKEPMWLDKIKRLEHGYQPVEGFVQDMRLIFQNHRSYKYKDFG  
QMGFRLEAEFEKNFKEVFAIQETNGNN

>sp|Q3ZLR7|SP201\_HUMAN Transcription factor SPT20 homolog-like 1 OS=Homo sapiens  
GN=SUPT20HL1 PE=2 SV=2

MDRDLEQALDRAENIIEIAQQRPPIRRYSRAGKTLQEKLYDIYVEECGKEPEDPQELRS  
NVNLEKLVRRESLPCLLVNLYPGNQGYSVMLQREDGSFAETIRLPYEERALLDYLDAAE  
LPPALGDVLDKASVNIHSGCVIVEVRDYRQSSNMPPGYQSRHILLRPTMQTLAHDVKM  
MTRDGGKWSQEDKLQLESQILATAEPLCLDPSVAVACTANRLLYNKQKMNTDPMKRCLQ  
RYSWPSVKPQQEQSDCPPPELVRVSTSGQKEERKVGQPCELNIAKAGSCVDTWKGPCDL  
AVPSEVDVEKLAKGYQSVTAADPQLPVWPAQEVEDPFGFALEAGCQAWDTKPSIMQSFND  
PLLCGKIRPRKKARQKSQKSPWQFPDHSACLRPGETDAGRAVSQAQESVQSKVKGPG  
KMSHSSSGPASVSQLSSWKTPEQPDVWVQSSVSGKGEKHPPTQLPSSSGKISSGNSF  
PPQQAGSPLKPAAPAAAASAAPSHSQKPSVPLIQASRPCPAAQPPTKFIKIAPIQLRTG  
STGLKAINVEGVPVQGAQALGSSFPVQAPGSGAPAPAGISGSDLQSSGGPLPDARPGAVQ  
ASSPAPLQFFLNTPEGLRPLTLQVPQGSVLTGPQQQSHQLVSLQQLQQTAAHPPQPG  
PQGSALGLSTQGQAFPAQQLLVNPNTRARGLQPPQPAVLSLLGSAQVPQQGVQLPSVL  
RQQQPQPPKLQLQPPQWPKPRQEPPQSQQQPQHIQLQTQQLRVLQQPQHIQLQTQQL  
RVLQQPVLATGAVQIVQPHPGVQVGSQVLDQRKEGKPTPPAP

>sp|Q9HAJ7|SP30L\_HUMAN Histone deacetylase complex subunit SAP30L OS=Homo sapiens  
GN=SAP30L PE=1 SV=1

MNGFSTEEDSREGPPAAPAAAAPGYGQSCCLIEDGERCVRPAGNASFSKRVQKSISQKKL  
KLDIDKSVRHLIICDFHKNFIQSVRNKRKRKTSDDGGDSPEHDTDIPEVDLFQLQVNTLR  
RYKRHYKLQTRPGFNKAQLAETVSRHFRNIPVNEKETLAYFIYMKSNKSRLDQKSEGGK  
QLE

>sp|Q02447|SP3\_HUMAN Transcription factor Sp3 OS=Homo sapiens GN=SP3 PE=1 SV=3

MTAPEKPVKQEEAALDVDSGGGGGGGGGHGEYLQQQQQHNGAVAAAAAQTQPSPLA  
LLAATCSKIGPPSPGDDEEEAAAAAGAPAAAGATGDLASAQLGGAPNRWEVLSATPTTIK  
DEAGNLVQIPSAATSSGQYVLPQLNLQNNQIFSVAPGSDSSNGTVSSVQYQVIPQIQSAD  
GQQVQIGFTGSSDNGGINQESSQIQIIPGSNQTLASGTPSANIQNLIPQTGQVQVQVQVA  
IGGSSFPGQTQVVANVPLGLPGNITFVPINSVDLDSLGLSGSSQTMTAGINADGHLINTG  
QAMDSSDNSTERTGERVSPDINETNTDITDLFVPTSSSSQLPVTIDSTGILQQNTNSLTSS  
GQVHSSDLQGNIIQSPVSEETQAQNIQVSTAQPVVQHLQLQESQQPTSQAQIVQGITPQT  
IHGVQASGQNISQQALQNLQLNLNPGTFLIQAQTVTPSGQVTWQTFQVQGVQNLQNLQIQ  
NTAAQQITLTPVQTLTLGQVAAGGAFTSTPVSLSTGQLPNLQTVTVNSIDSAGIQLHPGE  
NADSPADIRIKEEPDPEEWQLSGDSTLNTNDLTHLRVQVDEEGDQQHQEGKRLRRVAC  
TCPNCKEGGGRGTNLGKKKQHICHIPGCGKVYKTSHLRAHLRWHSGERPFVCNWMYCGK  
RFTRSDQLQRHRRTHTEKKFVCPECKRFMRSDHLAKHIKTHQNKKGIIHSSSTVLASVE  
AARDDTLITAGGTLILANIQQGSVSGIGTVNTSATSNDILTNTEIPLQLVTVSGNETM  
E

>sp|Q07617|SPAG1\_HUMAN Sperm-associated antigen 1 OS=Homo sapiens GN=SPAG1 PE=1 SV=3

MTTKDYPSLWGFGTTKTFKIPIEHLDFKYIEKSDVKHLEKILCVLRSGEGGYPELTFE  
CEKHLQALAPESRALRKDKPAATAASFTAEEWEKIDGDIKSWVSEIKKEEDKMHFHETET

FPAMKDNLPVVRGNSCLHVGKEKYSKRPTKKKTTPRDYAEWDKFDVEKECLKIDEDYKEK  
TVIDKSHLSKIETRIDTAGLTEKEKDFLATREKEKGNEAFNSGDYEEAVMYTRESISALP  
TVVAYNNRAQAEIKLQNWNSAFQDCEKVLELEPGNVKALLRRATTYKHQNKLREATEDLS  
KVLDPEDNDLAKKTLSEVERDLKNSEAASETQTKGKRMVIEIENSEDEEGKSGRKHED  
GGGDKKPAEPAGAAAAQPCVMGNIQKKLTGKAEGGKRPARGAPQRGQTPEAGADKRSPR  
RASAAAAAGGGATGHPGGGGAENPAGLKSQGNELFRSGQFAEAAGKYSAAIALLEPAGS  
EIADDSILYSNRAACYLKEGNCSCGIQDCNRALELHPFSMKPLLRAMAYETLEQYGA  
YVDYKTVLQIDCGLQLANDSVNRLSRILMELDGNWREKLSPIPAVPASVPLQAWHPAKE  
MISKQAGDSSSHRQQGITDEKTFKALKEEGNQCVDKNYKDALSKESECLKINNKECAIY  
TNRALCYLKLCQFEEAKQDCDQALQLADGNVKAFYRRALAHKGLKNYQKSLIDLNVILL  
DPSIIIEAKMELEEVTLLNLKDKTAPFNKEKERRKIEIQEVNEGKEEPGRPAGEVSMGCL  
ASEKGGKSSRSPDEPEKLPKAPNNAYEFGQIINALSTRKDKEACALLAITAPKDLPMF  
LSNKLEGDTFLLLIQSLKNNLIEKDPSLVYQHLLYLSKAERFKMMLTLISKGQKELIEQL  
FEDLSDTPNNHFTLEDIQALKRQYEL

>sp|075602|SPAG6\_HUMAN Sperm-associated antigen 6 OS=Homo sapiens GN=SPAG6 PE=2 SV=1

MSQRQVLQVFEQYQKARTQFVQMAELATRPQNIETLQAGVMSLLRTLLLDVVPTIQQT  
AALALGRLANYNDLAEAVVKCDILPQLVYSLAEQNRFYKAAAFVLRAVGKHSPQLAQA  
IVDCGALDTLVICLEDFDPGVKEAAAALRYIARHNAELSQAQVVDAGAVPLLVLCLQEPE  
IALKRIAASALSDIAKHSPELAQTVDAGAVAHLAQMILNPDAKLKHQILSALSQVSKHS  
VDLAEMVVEAEIPFVVLTCCLKDKEYVKKNASTLIREIAKHTPELSQLVVNAGGVAVID  
CIGSCKGNTRLPGIMMLGYVAAHSENLAMAVIISKGVPLSVCLSEEPEDHIKAAAALWAL  
GQIGRHTPEHARAVTNTLPVLLSLYMSTESSEDLQVKSKAIAKNILQKCTYLPALPEF  
LYDAPPNLIKHVVGQFSKVLPHDSKARRLFVTSGGLKKVQEIKAEPGSLLQEYINSINSC  
YP EEIVRYSPGYSDTLLQRVDSYQPLNN

>sp|Q496A3|SPAS1\_HUMAN Spermatogenesis-associated serine-rich protein 1 OS=Homo sapiens  
GN=SPATS1 PE=2 SV=2

MSPSMLTGNSPRGCRLPSISSTTCGRQLEKVPEKRDSGMTTEVERTYSANCSDFLESKGCF  
ANTTPSGKSVSSSSSVETGSPVSEPPGLPRVSAYVDTTADLDRKLSFSHSDHSSEMSLPE  
VQKDKYPEEFSLKLQTKDGHREPWFYPRFSSNIHTYHVGKQCFNGVFLGNKRSLSER  
TVDKCFGRKKYDIDPRNGIPKLTPGDNPYMYPEQSKGFHKAGSMLPPVNFIVPYEKKFD  
TFIPLEPLQIPNLPFWVEKANSKNEIQEVEELDNWQPAVPLMHMLHLSGALDFPRQS

>sp|Q8NB90|SPAT5\_HUMAN Spermatogenesis-associated protein 5 OS=Homo sapiens GN=SPATA5  
PE=1 SV=3

MSSKKNRKRLNQAENGSSLPSAASSCAEARAPSAGSDFAATSGTLTVTNLLEKVDDKIP  
KTFQNSLIHLGLNTMKSANICIGRPVLLTSLNGKQEVYTAWPMAGFPGGKVGLSEMAQKN  
VGVRPGDAIQVQPLVGAVLQAEEMDVALSDKDMEINEEELTGCILRKLDGKIVLPGNPLY  
CTFYGRPYKLQVLRVKGADGMILGGPQSDSDTAQRMAFEQSSMETSSLELSLQSLQDL  
EDTQIPTSRSTPYKPIDDRITNKASDVLLDVTQSPGDGSGLMLEEVTLKCNFESAREGN  
EQLTEERLLKFSIGAKCNTDTFYFISSTTRVNFTEIDKNSKEQDNQFKVTYDMIGGLSS  
QLKAIREIIELPLKQPELFKSYGIPAPRGVLLYGPPGTGKTMARAVANEVGAYVSVING  
PEIISKFYGETEAKLRQIFAEATLRHPSIIFIDELDALCPKREGAQNEVEKRVVASLLTL  
MDGIGSEVSEGQVLVLGATNRPHALDAALRRPGRFDKEIEIGVPNAQDRDLQKLLRRV  
PHLLTEAELLQLANSAHGYVGADLKVLCNEAGLCALRRILKKQPNLPDVKVAGLVKITLK  
DFLQAMNDIRPSAMREIAIDVPNVSWSDIGGLESIKLKLEQAVEWPLKHPESFIRMGIQP

PKGVLlyGPPGCKTMIKALANESGLNFLAIKGPelMnKYVGESerAVREtFRKARAVA  
PSIIFFDELdALaVERGSSlGAGNVADrvLAQllTEMdGIEQLKdVTILAATNRPDRIDK  
AlMRPGRIDRIIYVPLDAATRREIFKLQFHsMPVSNEVDLDELILQTDAYSgAEIVAVC  
REaALLALEEDIqANlIMKRHFTqALSTVTPRIPEsLRRFYEDYqEKSGLHTL

>sp|P48595|SPB10\_HUMAN Serpin B10 OS=Homo sapiens GN=SERPINB10 PE=1 SV=1

MDSLATSINQFALELSKKLAESAqGKNIFFSSWSISTSLTIVYLGAkGTAAQMAQVLQF  
NRDQGVKCDPESEKkrKMEFNlSNSEEIHSDfQTLISEILKPNDdYLLKTANAIYGEKTY  
AFHNKYLEDmKTYFGAEPQPVNFVEASDQIRKDINSWVERQTEGKIqNLLPDDsVDSTTR  
MILVNAlYfKGIWEHQFLVQNTTEKPFrINETTSKPVQMMFMKKKLHIFHIEKPKAVGLQ  
LYYKSRDLsLLILLPEDINGLEqLEKAITYEKLNWTSADMMELyEVQLHLPKfKLEDsY  
DLKSTLSSMGMSDAFSQSKADfSGMSSARnLFLSNVfHKAFVEINEqGTEAAAGSGSEID  
IRIRVPSIEFNANHPFLFFIRHNKtNTILfYGRlCSP

>sp|Q9UIV8|SPB13\_HUMAN Serpin B13 OS=Homo sapiens GN=SERPINB13 PE=1 SV=2

MDSLGAVSTRlGFDLFkELKKTNDGNIFFSPVGILTAIGMVLLGTRGATASQLEEVfHSE  
KETKSSRIKAEEKEVIENTEAVHQQfQKFLTEISKLTNDYELNITNRLfGEKTYLFLQKY  
LDYVEKYyHASLEPVDFVNAADESRKKINSWVESKTNEKIKDLFPDGSISsSTKLVLVNM  
VYfKGQWDREfKKENTKEEKfWMNKSTSKSVQMMTQSHSfSFTfLEDLQAKILGIPYKNN  
DLsMFVLLPNdIDGLEKIIDKISPEKLVEWTSPhMEERKVNHLPrFEVEDGYDLEAVL  
AAMGMGDafSEHKADYSGMSSGSLYAqKFLHSSfVAVTEEGTEAAATGIGFTVTSAPG  
HENVHCNHPFLFFIRHNESNSILfFGRfSSP

>sp|075635|SPB7\_HUMAN Serpin B7 OS=Homo sapiens GN=SERPINB7 PE=1 SV=1

MASLAAANAeFCfNLfREMDDNqGNVfFSSLSLFAALALVRLGAQDDSLsQIDKLLHV  
NTASGYGNSSNSQSGLQsQLKRvFSdINASHKDYDLsIVNGLFAEKVYGFHKDYIECAEK  
LYDAKVERVDfTNHLEDTRRNINKWVENETHGKIKNVIGEGGISSAVMLVNAVYfKGK  
WQSAfTKSETINCHfKSPKCSGKAVAMMHQERKfNLSVIEDPSMKILELRYNGGINMYVL  
LPENDLSEIENKLTfQNLMEWtNPRRMTsKYVEVfFPQfKIEKNYEMKQYLRAfGLKDIF  
DESKADLSGIASGGRLYISRMHKSyIEVTEEGTEATAATGSNIVEKQLPQSTLFRADHP  
FLfVIRKDDIILfSGKVSCP

>sp|Q495Y7|SPDE7\_HUMAN Putative speedy protein E7 OS=Homo sapiens GN=SPDYE7P PE=5 SV=1

MEWWDKSEESLEEEPRKVLAPePEEIWVAEMLCGLKMKLRRRVSLVLPehHEAFNRlle  
DPVIKRFLAWDKGLRVSDKYLLAMVIVYfSRAGLPsWYQCIHfFLALYLANDMEEDDED  
PKQNIYfLYGKTRSRIPLLRKRfQLCRcMNPRArKNRSQIVLfQKLRFQfFCMScRA  
WVSPEELEEIqAYDPEHVVWARDRARS

>sp|Q5MJ70|SPDYA\_HUMAN Speedy protein A OS=Homo sapiens GN=SPDYA PE=1 SV=2

MRHNQMCCETPTTVTVYVKGSGSNRSHQPKKPITLKRPICKDNWQAFekNTHNNKSKRPK  
GPCLVIQRQDMTAFFKLFDDDLIQDfLWMDCCCKIADKYLLAMTFVYfKRAKFTISEHTR  
INFFIALYLANtVEEDEEEtKYEIFPWALGKNWRKLFPNfLKLrdQLWDRIDYRAIVSRR  
CCEEVMAIAPThYIWQRERSVHhSGAVRNyNRDEVQLPRGPSATPVDCSLCGKKRRYVRL  
GLSSSSSLSSHTAGVTEKHSQDSYNSLSMDIIGDPSQAYTGSEVVNDHQSNKGKKTNFLK  
KDKSMEWFTGSEE

>sp|Q9HCB6|SPON1\_HUMAN Spondin-1 OS=Homo sapiens GN=SPON1 PE=1 SV=2

MRLSPAPLKLsRTPALLALALPLAAALAFsDETLDKVPKSEGyCSRILRAQGTrrEGYTE  
FSLRVEGDPDFYKPGTSYRVTLsAAPPSYfRGFTLIALRENREGDKEDHAGTFQIIDEe  
ETQfMSNCPVAVTESTPRRRTRIqVFWIAPPAGTGCVILKASIVQKRIIYfQDEGSLTKK

LCEQDSTFDGVTDKPILDCCACGTAKYRLTFYGNWSEKTHPKDYPRRANHWSAIIIGGSHS  
KNYVLWEYGGYASEGVKQVAELGSPVKMEEEIRQQSDEVLTVIKAKAQWPAWQPLNVRAA  
PSAEFSVDTRHLMFLMMPSPDWNVGLSAEDLCTKECGWVQKVVQDLIPWDAGTDSG  
VTYESPNKPTIPQEKIRPLTSLDHPQSPFYDPEGGSITQVARVIERIARKGEQCNIVPD  
NVDDIVADLAPEEKDEDDTPTETCIYSNWSPWSACSSSTCDKGKMRQRLKAQLDLSVPC  
PDTQDFQPCMGPGCSDDEDGSTCTMSEWITWSPCSI SCGMGMRSRERYVKQFPEDGSVCTL  
PTEETEKTVNEECSPSSCLMTEWGEWDECSATCGMGMKRHRMIKMN PADGSMCKAETS  
QAEKCMMECHTIPCLLSPWSEWSDCVTCGKGMRTQRMLKSLAELGDCNEDLEQVEKC  
MLPECPIDCELTEWSQWSECNKSCGKGHVIRTRMIQMEPQFGGAPCPETVQRKKCRIRKC  
LRNPSIQKLWRREARESRRSEQLKEESEGEQFPGCRM RPWTAWSECTKLCGGGIQERYMT  
VKKRFKSSQFTSCKDKKEIRACNVHPC

>sp|Q6IQ16|SPOPL\_HUMAN Speckle-type POZ protein-like OS=Homo sapiens GN=SPOPL PE=1 SV=1

MSREPTPLPGDMSTGPIAESWCYTQVKVVKFSYMWTTINNF SFCREEMGEVLKSSTFSSG  
PSDKMKWCLRVNPKGLDDESKDYL SLYLLL VSCPKEVRAKFKFSLLNAKREETKAMESQ  
RAYRFVQGKDWGFKFIRRD FLLDEANGLLPDDKLT LFCESVSVVQDSVNISGHTNTNTLK  
VPECRLAEDLGNLWENTRFTDCSFFVRGQEFKAHKS VLAARSPVFNAMFEHEMEESKKNR  
VEINDLDPEVFKEMMRFIYTGRAPNLDMADNLLAAADKYALERLKMCEEALCSNLSVE  
NVADTLVLADLHSAEQLKAQAIDFINRC SVLRQLGCKDGKNWNSNQATDIMETSGWKSMI  
QSHPHLVAAFRALASAQCPQFGIPRKRLKQS

>sp|Q7Z699|SPRE1\_HUMAN Sprouty-related, EVH1 domain-containing protein 1 OS=Homo sapiens  
GN=SPRED1 PE=1 SV=2

MSEETATSDNDNSYARVRAVVMTRDDSSGGWLPLGGSGLSSVT VFKVPHQEENGCAFFI  
RGERLRDKMVVLECM LKKDLIYNKVTPTFHHWKIDDKKFG LTFQSPADARAFDRGIRRAI  
EDISQGCPEKNEAEGADDLQANEEDSSSSLVKDHLFQQETVVTSEPYRSSNIRPSPFED  
LNARRVYMQSQANQITFGQPGLDIQSRSM EYVQRQISKECGSLKSQNRVPLKSIRHVSFQ  
DEDEIVRINPRDILIRRYADYRHPDMWKNDLERDDADSSIQFSKPD SKSDYLYSCGET  
KLSSPKDSVVFKTQPSSLKIKKSKRRKEDGERSRCVYCQERFNHEENVRGKCQDAPDIK  
RCIYQVSCMLCAESMLYHCMSDSEGFSDPCSCDTSDDKFCLRWLALVALSFIVPCMCCY  
VPLRMCHRCGEACGCCGGKHKAAAG

>sp|P35270|SPRE\_HUMAN Sepiapterin reductase OS=Homo sapiens GN=SPR PE=1 SV=1

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPG SVLVLSARND EALRQLEAELGAERSG  
LRVVRVPADLGAEAGLQQLLGALRELPRPKGLQRLLL INNAGSLGDVSKGFVDLSDSTQV  
NNYWALNLT SMLCLTSSVLKAFPDSPGLNRTVVNISSL CALQPFKGWALYCAGKAARDML  
FQVLALEEPNVRVLNYAPGLD TDMQQLARETSVDPDMRGLQELKAKGKLV DCKVSAQK  
LLSLEKDEFKSGAHVDFYDK

>sp|Q14515|SPRL1\_HUMAN SPARC-like protein 1 OS=Homo sapiens GN=SPARCL1 PE=1 SV=2

MKTGLFFLC LLGTAAAIPTNARLLSDHSKPTAETVAPDNTAIPSLRAEAEENEKETAVST  
EDDSHHKAEKSSVLKSKEESHEQSAEQGKSSSQELGLKDQEDSDGHL SVNLEYAPTEGTL  
DIKEDMSEPQEKLSENTDFLAPGVSSFTDSNQESITKREENQE QPRNYSHHQLNRSSK  
HSQGLRDQGNQE QDPNISNGEEEEKEPGEVGT HNDNQRKTELPREHANSKQEDNTQS  
DDILEESDQPTQVSKMQEDEFDQGNQE QEDNSNAEMEENASNVNKHIQETEWQSQEGKT  
GLEAISNHKETEEKTVSEALLMEPTDDGNTTPRNHGVDDDGDDGDDG GTDGP RHSASDD  
YFIPSQAFLEAERAQSIAYHLKIEEQREKVHENENIGTTEPGEHQEAKKAENSSNEEETS  
SEGNM RVHAVDSCMSFQCKRGHICKADQQGKPHCVCQDPVTC PPTKPLDQVCGTDNQTYA

SSCHLFATKCRLEGTKKGHLQLDYFGACKSIPTCTDFEVIQFPLMRDWLKNILMQLYE  
ANSEHAGYLNKQNRNVKKIYLDEKRLLAGDHPIDLLLRDFKKNYHMYVYPVHWQFSELD  
QHPMDRVLTHSELAPLRASLVPMEHCITRFEECDPNKDKHITLKEWGHCFCGIKEEDIDE  
NLLF

>sp|Q8NCJ5|SPRY3\_HUMAN SPRY domain-containing protein 3 OS=Homo sapiens GN=SPRYD3 PE=1  
SV=2

MRRTRRRPRFVLMNKMDDLNLHYRFLNWRRIREIREVRAFRYQERFKHILVDGDTLSYHG  
NSGEVGCYVASRPLTKDSNYFEVSIVDSGVRGTIAVGLVPQYSLDHQPGWLPDSVAYHA  
DDGKLYNGRAKGRQFGSKCNSGDRIGCGIEPVSFQVTAQIFFTKNGKRVGSTIMPSPD  
GLFPAVGMHSLGEEVRLHLNAELGREDDSVMMVDSYEDEWGRLHDVRVCGTLLEYLGKKG  
SIVDVGLAQARHPLSTRSHYFEVEIVDPGEKCYIALGLARKDYPKNRHPGWSRGSVAYHA  
DDGKIFHSGVGDPFGPRCYKGDIMCGIMFPRDYILDSEGSDDSCDTVILSPTARAVR  
NVRNVMYLHQEGEEEEEEEEEEEDGEEIEPEHEGRKVVVFFTRNGKIIIGKKDAVVPSSGGF  
FPTIGMLSCGEKVKVDLHPLSG

>sp|Q5W111|SPRY7\_HUMAN SPRY domain-containing protein 7 OS=Homo sapiens GN=SPRYD7 PE=1  
SV=2

MATSVLCCLRCCRDGGTGHIPKEMPAVQLDTQHMGTDVVIVKNGRRICGTGGCLASAPL  
HQNKSYFEFKIQSTGIWGIGVATQKVNLNQIPLGRDMHSLVMRNDGALYHNNEKNRLPA  
NSLPQEGDVVGITYDHVELNVYLNKGNMHCASGIRGTVYPVVYVDDSAILDQCFSEFYH  
TPPPGFEKILFEQQIF

>sp|Q99611|SPS2\_HUMAN Selenide, water dikinase 2 OS=Homo sapiens GN=SEPHS2 PE=1 SV=3

MAEASATGACGEAMAAEGSSGPAGLTGRSFSNYRPFEPQALGLSPSWRLTGFSGMKGU  
GCKVPQEALLKLLAGLTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFPALGIGMD  
SCVIPLRHGGLSLVQTDFYPLVEDPYMMGRIACANVLSDLAMGITECDNMLMLLSVS  
QSMSEEEEREKVTPLMVKGRDAAEEGGTAVTGGQTVVNPWIIIGGVATVVCQNEFIMPD  
SAVVGDLVLTKPLGTQVAVNAHQWLDNPERWNKVKMVSREEVELAYQEAMFNMATLNR  
TAAGLMHTFNAAATDITGFGILGHSQNLAKQQRNEVSFVIHNLPIIAKMAAVSKASGRF  
GLLQGTSAETSGLLICLPREQAARFCSEIKSSKYGEGHQAIVGIVEKGNRTARIIDKP  
RVIEVLPRGATAAVLAPDSSNASSEPSS

>sp|Q99619|SPSB2\_HUMAN SPRY domain-containing SOCS box protein 2 OS=Homo sapiens GN=SPSB2  
PE=1 SV=1

MGQTALAGSSSTPTPQALYPLDLSCEGLEELLSAPPPDLGAQRRHGWNPKDCSENIEVK  
EGGLYFERRPVAQSTDGARGKRGYSRGLHAWAISWPLEQRGTHAVVGVATALAPLQTDHY  
AALLGSNSESWGWDIGRGKLYHQSKGPGAPQYPAGTQGEQLEVPERLLVVLDMEEGTLGY  
AIGGTYLGPAFRGLKGRTLYPASAVWGQCQVRIRYLGERRAEPHSLHLSRLCVRHNLG  
DTRLGQVSALPLPPAMKRYLLYQ

>sp|Q9BXB7|SPT16\_HUMAN Spermatogenesis-associated protein 16 OS=Homo sapiens GN=SPATA16  
PE=1 SV=3

MDAGSSRSLENVNRIDQLVPKINTSKKMSTLAHPPNILEMSQEIKKNCGGKQVEITL  
ERTKMTKGIKEKQSNLEKAAFKRKAEGEEKPTRKKQAKITELDNQLITMPLPHIPLKNI  
MDVEMKLVYIDEMGVRYEFVESFMSTGSQPTCQAAEIVDPLSVHNFSFLPQIDKWLQVAL  
KDASSCYRQKKYALAAGQFRTALELCSKGAVLGEPFDAPAEDIAVASFIIETKLVTCYLR  
MRKPDALNHAHRSIVLNPAYFRNHLRQATVFRCLERYSEAARSAMIADYMFWLGGGREE  
SISKLIKLYWQAMIEEAITRAESFSVMYTPFATKIRADKIEKVKDAFTKTHPAYAEYMYT



DLQALHMLPQTVDWSSFPQQYLLTLGFKNKDDGKFLEKISSRKLPITTEHKTPFGLTRE  
DTVQRQMETMGKRILPILDFIRSTQLNGSFPASSGVMEKLQYASLLSQLQRVKEQSQVINQ  
AMAELATIPYLQDISQQEAELLQSLMADAMDTLEGRRNNNERVWNMIQKVGQIEDFLYQL  
EDSFLKTKKLRTARRQKTKMKRLQTVQQR

>sp|Q96LK8|SPT32\_HUMAN Spermatogenesis-associated protein 32 OS=Homo sapiens GN=SPATA32  
PE=1 SV=3

MGVTGAHGFPCCGKGSVEVAEMRDDLSQHQIQEEQELEADMLEQKPQLQVDLDDPDPPDP  
DPELEIGQVPALLESELYPALKLEAELDTEANSNEESDFEPMQLVCKIESVHSNMGLPT  
PQTRFPWSLNSNCRSFTEENHVSACHHSISAQTSKHLFWANKLIQASEHSLQRAINMQLN  
NGSAGQPPIRSPLREAIPTNALCSEEQLQIPDAHSAPPTSSQAPSPLSSDLPPPIDLTE  
LITFASSLAMASSSRMDLPSLEHMMKAPPQEALPSTEPLLTVEEREPEENHAETLPEKP  
REARAPLKSWSQEDKNFAQSYFDFSKPGIKRATIKGQIQLLQPPATSPLLQGSKEDSVPP  
GKEKENPLLVKIHFKLSAPTIPEK

>sp|Q86TD4|SRCA\_HUMAN Sarcalumenin OS=Homo sapiens GN=SRL PE=2 SV=2

MRALVLLGCLLASLLFSGQAEQVSASGGTEDVGNLLENHFSAGDASLEEKERALYADTA  
PQDKKLLLHYPDGREAESPKKTPASAASAGPDPEASLSNASATESPPPGERDDRDAAGPG  
EEKNGPPVASALPPGGAKGPVEEEWPEPSSGEGQGEETGFGLPTEGTASGEAGGQAGGH  
ELPEEVQEVQGDLSLVQGAVAGTAEPKAEGASPHSEGDGVGPLNAEAGSPGPGEPAVPE  
GAPDVAAGGESEPDIDTQASEGTEDQGEPGPAEASAEPGGAQSVKAGDTEESQAPEMT  
EEDADEASSEESGDGSGSEEEGGVPSEEESEEDSGDGASSEEAEAGASEEATEPQEAGEP  
QEAREPQEGGDLQEAEESQEGGDPQEAEPPQEGGAPQEGGEPQEGGDPQEAREPQEAREP  
QEGAELPEATGTTSHRDRGAQPGPEELNTESMGSETLDMKAEEPEEGHQGRESPIIVAQE  
ETEDANEEAPLRDRSHIEKTLMLNEDKPSDDYSAVLQRLRKIYHSSIKPLEQSYKYNELR  
QHEITDGEITSKPMVFLGPWSVGKSTMINYLLGLENTYQLYTGAEPPTSEFTVLMHGP  
KLKTIEGIVMAADSARSFSPLEKFGQNFLEKLIGIEVPHKLLERVTFVDTPGIENRKQQ  
ERGYPFNDVCQWFIDRADLIFVFDPTKLDVGLELEMLFRQLKGRESQIRIILNKADNLA  
TQMLMRVYGALFWSLAPLINVTEPPRVYVSSFWPQEYKPDTHQELFLQEEISLLEDLNQV  
IENRLENKIAFIRQHAIRVRIHALLVDRLQTYKDKMTFFSDGELVFKDIVEDPDKFYIF  
KTILAKTNVSKFDLPNREAYKDFFGINPISFKLLSQCSYMGGCFLEKIERAITQELPG  
LLGSLGLGKNPGALNCDKTGCSETPKNRYRKH

>sp|Q4G0T1|SRCRM\_HUMAN Scavenger receptor cysteine-rich domain-containing protein SCART1  
OS=Homo sapiens PE=1 SV=2

MRAALWTLGLGPLLLNLWAVPIGGPGALRLAYRHSTCDGVVLVRHHGAWGYVCNQEWTLA  
EASVVCQRQLGCGPAVGAPKYVPLPGEMAQPWLHNVSCRGNESLWECSLGSWCQSPCPHA  
WVVVALCSNGTFRELRLVKGRSPCAGLPEIRNVNGVDRLCVLHVEEAMVFCRELGCGPVL  
QAPRRDVGVRKYLACRGTEPTIRSCRLDNNFRSGCDLRLDAEVVCSGHTEARLVGGEHP  
CAGRLEVTWGTVCDAALDLATAHVVCRELQCGAVVSTPEGARFGRSGPVPWTEAFRCAGN  
ESLLFHCPRGRGSQCGHGHDAGLRCSEFRMVNGSSSCEGRVEFQVQGSWAPLCATHWDIA  
DATVLCQLNCGNAVAAPGGGHFGDGDAAIWPDFAHCEGTESYLWNCVPVSTLGAPACAPG  
NTASAVCSGLAHLRLREGQSRCDGRVEVSLDGVWGRVLDDAWDLRGAGVVCRLGCRGA  
QQAYDAPAPSRGSVQVALSRVCLGTETRLTQCNVSATLQEPAGTSRDAGVVCSGEVGTA  
SPMARRHGIPGALTLSLHREPQGAAGRGAGALHGGAWGTVCDADWLDAHVVCRLGCG  
RALSALGAAHFGAGAGRIWLDELGCQGHESALWQCPAGWGRHDWRHKEDAGVFCSESVA  
LRLRGGTCCCAGWLDVFYNGTWGAMCSNALKDLSLSIICKQLGCGVWGVGLAGEQALPLC

GHRDRLGGQHRVPQAAQLHSVAMFPFPPMAPALLRPSRAGLSEDRPQAAGEPLNCSSWLGC  
PEEGALRVRGGEDRCSGRVELWHAGSWGTVCDGWDLADAEVVCRLGCGRAVAALGAAA  
FGPGSGPVWLDEVGCRGSEASLWGCPAERWGRGDRAHEEDAGVRCWEPGPGPPLPAAPFR  
TFWVSVVLGSLGLLLLGLMAFLILPRVTQAMQRGLGRSEVSPGEAIYDVIGEMPAGL  
YEEIMEAEAVLQDEEDGSVVKVDTEAAVSGEVSNNLEGGQSIRAEGGHSRPVSQGYDEAAF  
PLEEMTL

>sp|P11831|SRF\_HUMAN Serum response factor OS=Homo sapiens GN=SRF PE=1 SV=1

MLPTQAGAAAAALGRGSALGGSLNRTPTGRPGGGGTRGANGGRVPGNGAGLGPGRLEREA  
AAAAATTPAPTAGALYSGSEGDSESGEEELGAERRGLKRSLSEMEIGMVVGPEASAAA  
TGGYGPVSGAVSGAKPGKKTGRGVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTG  
TQVLLLVASETGHVYTFATRKLPMTTSETGKALIQTCNLSPDSPPRSDPTTDQRMSATG  
FEETDLYQVSESDSGETKDTLKPFTVTNLPGTTSTIQTAPSTSTTMQVSSGPSFPIT  
NYLAPVSASVSPSAVSSANGTVLKSTGSGPVSSGGLMQLPTSFTLMPGGAVAQQVPVQAI  
QVHQAPQQASPRDSSTDLTQTSSSGTVTLPATIMTSSVPTTVGGHMMYPSPHAVMYAPT  
SGLGDGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTASSGTQIPVSAVQLHQMAY  
IGQQAGSSSNLTQLQVNNLDTAHSKSE

>sp|Q7Z6B7|SRGP1\_HUMAN SLIT-ROBO Rho GTPase-activating protein 1 OS=Homo sapiens  
GN=SRGAP1 PE=1 SV=1

MSTPSRFKKDKKEIIAEYESQVKEIRAQLVEQQKCLEQQTEMRVQLLQDLQDFFRKKAEIE  
TEYSRNLEKLAERFMAKTRSTKDHQQYKKDQNLSPVNCWYLLLNQVRRESKDHALSDI  
YLNNVIMRFMQISEDSTRMFKKSKKEIAFQLHEDLMKVLNELYTMKTYHMYHAESISAES  
KLKEAEKQEEKQIGRSGDPVFHIRLEERHQRRSSVKKIEKMKEKRQAKYSENKLKSIKAR  
NEYLLTLEATNASVFKEYIHDLSDLIDCCDLGYHASLNRALRTYLSAEYNLETSRHEGLD  
IENAVDNLEPRSDKQRFMEMYPAAFCPPMKFEFQSHMGDEVQVSAQQPVQAELMLRYQ  
QLQSRLATLKIENEEVKKTTEATLQTIQDMVTIEDYDVSECFQHSRSTESVKSTVSETYL  
SKPSIAKRANQQETEQFYFMKLREYLEGSNLITKLQAKHDLLQRTLGEGHRAEYMTTRP  
PNVPPKPQKHKRSRPRSQYNTKLFNGDLETQVSDSGQVPLIVESCIRFINLYGLQHGGI  
FRVSGSQVEVNDIKNSFERGENPLADDQSNHDINSVAGVLKLYFRGLENPLFPPERFNDL  
ISCIRIDNLYERALHIRKLLLTLPRSVLIVMRYLFAFLNHLNQSDENMMDPYNLAICFG  
PTLMPVPEIQDQVSCQAHVNEIIKTIIIHHETIFPDAKELDGPVYEKCMAGDDYCDSPYS  
EHGTLEEVDQDAGTEPHTSEDECEPIEAIKFDYVGRSARELSFKKGASLLLYHRASEDW  
WEGRHNGIDGLVPHQYIVVQDMDDTFSDTLSQKADSEASSGPVTEDKSSSKDMNSPTDRH  
PDGYLARQKRGEPPPPVRRPGRTSDGHCPLHPPHALSNSSVDLGSPSLASHPRGLLQNR  
GLNNDSPERRRRPGHSLTNISRHDSLKKIDSPPIRRSTSSGQYTGFDHKLPLDPETIAQ  
DIEETMNTALNELRELERQSTAKHAPDVVLDLTLQVKNSTPATSTESLSPLHNVALRSS  
EPQIRRSTSSSSDTMSTFKPMVAPRMGVQLKPPALRPKPAVLPKTNPTIGPAPPPQGPTD  
KSCTM

>sp|075044|SRGP2\_HUMAN SLIT-ROBO Rho GTPase-activating protein 2 OS=Homo sapiens  
GN=SRGAP2 PE=1 SV=2

MTSPAIFKKDKKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQDFFRKKAEIE  
MDYSRNLEKLAERFLAKTRSTKDQQFKDQNVLSPVNCWYLLLNQVKRESRDHTTSLDIY  
LNNIIPRFVQVSEDSGRLFKKSKEVGQQLQDDLKVLNELYSVMKTYHMYNADSIASQSK  
LKEAEKQEEKQIGKSVKQEDRQTPRSPDSTANVRIEEKHVRRSSVKKIEKMKEKRQAKYT  
ENKLKAIKARNEYLLALEATNASVFKEYIHDLSDLIDCCDLGYHASLNRALRTFLSAEL

NLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGDMASQLCAQQ  
PVQSELVQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDIVTVEDFDVSDCFQYSNSME  
SVKSTVSETFMSKPSIAKRRANQQETEQFYFTKMKEYLEGRNLITKLQAKHDLLQKTLGE  
SQRTDCSLARRSSTVRKQDSSQAIPLVVESCIRFISRHLQHEGIFRVSGSQVEVNDIKN  
AFERGEDPLAGDQNDHDMDSIAGVLKLYFRGLEHPLFPKDIFHDLMACVTMDNLQERALH  
IRKVLLVLPKTTLIIMRYLFAFLNHLNQFSEENMMDPYNLAICFGPSLSVPEGHDQVSC  
QAHVNELIKTIIIQHENIFPSPRELEGPVYSRGGSMEDYCDSPHGETTPVEDSTQDVTAE  
HHTSDDECEPIEIAIAKFQDYVGRARELSFKKGASLLLYQRASDDWWEGRHNGIDGLIPHQ  
YIVVQDTEGTVVERSSPKSEIEVISEPPEEKVTARAGASCPSSGGHVADIYLANINKQRKR  
PESGSIRKTFRSDSHGLSSSLTSSSPGVGASCRPSSQPIMSQSLPKEGPDKCSISGHGS  
LNSISRHSSLKNRLDSPQIRKTATAGRSKSFNNHRPMDPEVIAQDIEATMNSALNELREL  
ERQSSVKHTPDVVLDTLEPLKTSPPVAPTSEPSSPLHTQLLKDPEPAFQRSASTAGDIAC  
AFRPVKSVMKMAAPVKPPATRPKPTVFPKTNATSPGVNSSTSPQSTDKSCTV

>sp|P02814|SMR3B\_HUMAN Submaxillary gland androgen-regulated protein 3B OS=Homo sapiens  
GN=SMR3B PE=1 SV=2

MKSLTWILGLWALAACFTPGESQGRGPGYPYPPGPLAPPQFPGPGFVPPPPPPPYGPGRIP  
PPPPAPYGPPIPPPPPPQ

>sp|Q8NCR6|SMRP1\_HUMAN Spermatid-specific manchette-related protein 1 OS=Homo sapiens  
GN=SMRP1 PE=1 SV=2

MFLFSRKTRTPISTYSDSYRAPSISKEVYKDPPLCAWEANKFLTPLGTHMERHVDPEAL  
QKMAKCAVQDYTYRGSISGHPYLPEKYWLSQEEADKCSPNYLGSDWYNTWRMEPYNSSCC  
NKYTTYLPRLPKARMETAVRGMPLECPRPRLNAYEREVMVNMLNSLSRNQQLPRITP  
RCGCVDPPLPGRPLPFHGYESACSGRHYCLRGMDYYASGAPCTDRRLRPWCREQPTMCTSLR  
APARNAVCCYNPAVILPISEP

>sp|Q86VZ5|SMS1\_HUMAN Phosphatidylcholine:ceramide cholinephosphotransferase 1 OS=Homo sapiens  
GN=SGMS1 PE=1 SV=2

MLSASTMKEVVYWSPKKVADWLLNAMPEYCEPLEHFTGQDLINLTQEDFKKPPLCRVSS  
DNGQRLDMIETLKMEHLEAHKNGHANGHLNIGVDIPTDGSFSIKIKPNGMPNGYRKE  
MIKIPPELERSQYPMEWGKTFLAFLYALSCFVLTTVMISVVHERVPPKEVQPPLPDTF  
DHFNRVQWAFSICEINGMILVGLWLIQWLLKYKSIISRFFCIVGTLYLRCITMYVTT  
LPVPGMHFNCSPLFGDWEAQLRRIMKLIAGGGLSITGSHNMGDYLVSIGHTVMLTLTYL  
FIKEYSPRRLWYWHWICWLLSVVGIFCILLAHDHYTVDVVVAYYITTRLFWYHTMANQQ  
VLKEASQMNLLARVWYRPFQYFEKNVQGIVPRSYHWPFPWPVVHLSRQVKYSRLVNDT

>sp|P61278|SMS\_HUMAN Somatostatin OS=Homo sapiens GN=SST PE=1 SV=1

MLSCRLQCALAALSIVLALGCVTGAPSDPRLRQFLQKSLAAAAGKQELAKYFLAELLSEP  
NQTENDALEPEDLSQAAEQDEMRELEQRSANSNPAMAPRERKAGCKNFFWKTFTSC

>sp|A8MU46|SMTL1\_HUMAN Smoothelin-like protein 1 OS=Homo sapiens GN=SMTNL1 PE=1 SV=1

MEQKEGKLSHGTTVSPAADNPMSGGAPAEETKGTAGKAINEGPPTESGKQEKAPAED  
GMSAELQGEANGLDEVKVESQREAGGKEDAEELKKEDGEKEETTVGSQEMTGRKEETKS  
EPKEAEEKESTLASEKQKAAEEKEAKPESGQKADANDRDKPEPKATVEEEDAKTASQEETV  
VEDEAKAEPKEPDGKEEAKHGAKEEADEPGSPSEEQEQDVEKEPEGGAGVIPSSPEEWPE  
SPTGEGHNLSTDGLGPCVASGQTSPSASESSPDVPQSPPESSSGEKKKAPERRVSA  
PARPRGPRAQRKAIQDKFGGAASGPTALFRNTKAAGAAIGGVKNMLLEWCRAMTKKYE  
VDIQNFSSSWSSGMAFCALIHKFFPDADFYAELDPAKRRHNFTLAFSTAELADCAQLLD

VDDMVRLAVPDSKCVYTYIQELYRSLVQKGLVKTKKK

>sp|Q8TEQ0|SNX29\_HUMAN Sorting nexin-29 OS=Homo sapiens GN=SNX29 PE=1 SV=3

MSGSQNDKRQFLLERLLDVAKQCQIRFGGRKEIASDSDSRVTCLCAQFEAVLQHGLKRS  
RGLALTAATAIKQAAGFASKTETEPVFWYVKEVLNKHQLRFYSLRHIAASDVGRGRAWLR  
CALNEHSLERYLHMLLADRCRLSTFYEDWSFVMDERSSMLPTMAAGLNSILFAINIDNK  
DLNGQSKFAPTVSDLLKESTQNVTSLLKESTQGVSSLFREITASSAVSILIKPEQETDPL  
PVVSRNVSADAKCKKERKKKKVTNIIISFDDEEDEQNSGDVFKKTPGAGESSEDNSDRSS  
VNIMSAFESPFPGNSNGSQSSNSWKIDSLSLNGEFGYQKLDVKSIDDEDVDENEDDVYGN  
SSGRKHRGHSESPEKPLEGNTCLSQMHSWAPLKVHNSDILFPVSGVGSYSPADAPLGS  
LENGTGPEDHVLDPGLRYSVEASSPGHGSPLSSLLPSASVPESMTISELRQATVAMMNR  
KDELEENRSLRNLLDGEMEHSALRQEVDTLKRKVAEQEERQGMKVQALARENEVLKVQ  
LKKYVGAVQMLKREGQTAEPVNLWSVDGEVTVAEQKPGEIAEELASSYERKLIEVAEMHG  
ELIEFNERLHRALVAKEALVSQMRQELIDLRGPVPGDLSQTSQSLSDFEISNRALINV  
WIPSVFLRGKAANAFHVYQVYIRIKDDEWNIYRRYTEFRSLHHKLQNKYPQVRAYNFPPK  
KAIGNKDAKFVEERRKQLQNYLR SVMNKVIQMVPEFAASPKKETLIQLMPFFVDITPPGE  
PVNSRPKAASRFPKLSRGQPRETRNVEPQSGDL

>sp|Q5VWJ9|SNX30\_HUMAN Sorting nexin-30 OS=Homo sapiens GN=SNX30 PE=1 SV=1

MAGGPPKALPSTGPHSLRDMPHLAGSSSEEAVGGDSTPSPDLLMARSFGDKDLILPNGG  
TPAGTSSPASSSSLLNRLQLDDDIDGETRDLFVIVDDPKKHVCTMETYITYRITTKSTRV  
EFDLPEYSVRRRYQDFDWLRSKLEESQPTHLIPPLPEKFVVKGVVDRFSEEFVETRRKAL  
DKFLKRITDHPVLSFNEHFNIFLTAKDLNAYKKQGIALLTRMGESVKHVTGGYKLRTPL  
EFAAIGDYLDTFALKLGTIDRIAQRRIKEEIEYLVREYGPVYSTWSALEGELAEPLG  
VSACIGNCSTALEELTDDMTEDFLPVLREYILYSDSMKSVLKKRDQVQAEYEAKLEAVAL  
RKEDRPKVPADVEKQDRMECFNADLKADMERWQNNKRQDFRQLLMGMADKNIQYYEKCL  
MAWESIPLLQEKQEAKE

>sp|Q9Y5X1|SNX9\_HUMAN Sorting nexin-9 OS=Homo sapiens GN=SNX9 PE=1 SV=1

MATKARVMYDFAAEPGNELTVNEGEIITITNPVGGGWLEGRNIKGERGLVPTDYVEIL  
PSDGKQDFSCGNSVADQAFDLSASTAQASSSAASNNHQVSGNDPWSAWSASKSGNWE  
SSEGWAQPEGAGAQRNTNTPNWDATFGHPQAYQGPATGDDDDWDEDWDGPKSSSYFKD  
SESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQLAKPKEKIPIIVGDYG  
PMWVYPTSTFDCVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK  
FGSAIPIPSLPDKQVTGRFEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEK  
EWKTGKRKAERDELAVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVG  
QEHWKRCTGPLPKEYQKIGKALQSLATVFSSSGYQGETDLNDAITEAGKTYEEIASLVAE  
QPKKDLHFLMECNHEYKGLGCFPDIIGTHKGAIEKVESDKLVATSKITLQDKQNMVKR  
VSIMSYALQAEMNHFSNRIYDYNVIRLYLEQQVQFYETIAEKLQALS RFPVM

>sp|P46721|S01A2\_HUMAN Solute carrier organic anion transporter family member 1A2 OS=Homo sapiens GN=SLC01A2 PE=2 SV=1

MGETEKRIETHRIRCLSKLKMFLLAITCAFVSKTSLSGSYMNSMLTQIERQFNIPTSLVGF  
INGSFEIGNLLLIIFVSYFGTKLHRPIMIGIGCVVMGLGCFLKSLPHFLMNQYESTVS  
VSGNLSNSFLCMENGTQILRPTQDPSECTKEVKSLMWVYVLVGNIVRGMGETPILPLGI  
SYIEDFAKFENSPLYIGLVETGAIIGPLIGLLASF CANVYVDTGFVNTDDLIIITPDTR  
WVGAWWFGFLICAGVNLTAIPFFFLPNTLPKEGLETNADIIKNENEDKQKEEVKKEKYG  
ITKDFLPFMKSLSCNPIYMLFILVSVIQFNAFVNMI SFMPKYLEQQYGISSSDAIFLMGI

YNLPPICIGYIIIGGLIMKKFKITVKQAAHIGCWLSSLLEYLLYFLSFLMTCENSSVVGINT  
SYEGIPQDLYVENDIFADCNVDCNCPSKIWDPVCGNNGLSYLSACLACGSETSIGTGINMV  
FQNCSCIQTSGNSSAVLGLCDKGPDCSLMLQYFLILSAMSSFIYSLAAIPGYMVLLRCMK  
SEEKSLGVGLHTFCTRVFAGIPAPIYFGALMDSTCLHWGTLKCGESGACRIYDSTTFRYI  
YLGLPAALRGSSFPALIIILLRKCHLPGENASSGTELIETKVKGKENECKDIYQKSTV  
LKDDELKTKL

>sp|Q9UIG8|S03A1\_HUMAN Solute carrier organic anion transporter family member 3A1 OS=Homo  
sapiens GN=SLC03A1 PE=1 SV=3

MQGKKPGSSGGGRSGELQGDEAQRNKKKKKKVSCFSNIKIFLVSECALMLAQGTVGAYL  
VSVLTTLERRFNLQSADVGVIASSFEIGNLALILFVSYFGARGHRPRLIGCGGIVMALGA  
LLSALPEFLTHQYKEAGEIRWGAEGRDVCAANGSGGDEGPDPDLICRNRTATNMMYLLL  
IGAQVLLGIGATPVQPLGVSYIDHVRKDSLYIGILFTMLVFGPACGFILGSFCTKIY  
VDAVFIDTSNLDITPDDPRWIGAWWGFLLCGALLFFSSLLMFGFPQSLPPHSEPAESE  
QAMLSEREYERPKPSNGVLRHPLEPDSSASCFFQLRVIPKVTKHLLSNPVFTCIILAACM  
EIAVVAGFAAFLGKYLEQQFNLTSSANQLLGMTAIPACACLGIFLGGLLVKKLSLSALGA  
IRMAMLVNLVSTACYVSFLFLGCDTGPVAGVTVPYGNSTAPGSALDPYSPCNNNECQTD  
SFTPVCAGADGITYLSACFAGCNSTNLTGACCLTTPAENATVVP GKCPSPGCQEAFLTFL  
CVMCICSLIGAMAQTPSVIILIRTVSPELKSyalGVFLLLRLLGFIPPLIFGAGIDST  
CLFWSTFCGEQGACVLYDNVVYRYLYVSIAlKSFafilyTTTWQCLRKnyKryIKNHE  
GGLSTSEFFASTLTLDNLGRDPVPANQTHRTKFIYNLEDHEWCENMESVL

>sp|Q96BD0|S04A1\_HUMAN Solute carrier organic anion transporter family member 4A1 OS=Homo  
sapiens GN=SLC04A1 PE=1 SV=2

MPHLQGDGKPLTFPSPNSAMENGLDHTPPSRRASPGTPLSPGSLRSAHSPLDTSKQPLC  
QLWAEKHGARGTHEVRYVSAGQSVACGWWAFAPPCLQVLNTPKGILFFLCAAAFLQGMTV  
NGFINTVITSLERRYDLHSYQSLIASSYDIAACLCLTFVSYFGSGHKPRWLGWGVLLM  
GTGSLVFALPHFTAGRYEVELDAGVRTCPANPGAVCADSTSGLSRYQLVFMLGQFLHGVG  
ATPLYTLGVTYLDENVKSSCSPVYIAIFYTAAILGPAAGYLIGGALLNIYTEMGRRTLT  
TESPLWVGAWWVGLGSGAAFFTAVPILGYPRQLPGSQRYAVMRAAEMHQLKDSSRGEA  
SNPDFGKTIRDPLSIWLLLNPTFILLCLAGATEATLITGMSTFSPKFLESQFSLSASE  
AATLFGYLVVPAGGGGTFLGGFFVNKLRLRGSavIKFCLFCTVVSLGILVFSLHCPSVP  
MAGVTASYGGSLLPEGHNLTA PCNAACSCQPEHYSPVCGSDGLMYFSLCHAGCPAATET  
NVDGQKVYRDCSCIPQNLSSGFHATAGKCTSTCQRKPLLLVFI FVVIFFTLSSIPALT  
ATLRCVRDPQRSFALGIQWIVVRILGGIPGPIAFGWVIDKACLLWQDQCGQGSCLVYQN  
SAMSRYILIMGLLYKVLGVLFfaIACFLYKPLSESSDGLTCLPSQSSAPDSATDSQLQS  
SV

>sp|Q6ZQN7|S04C1\_HUMAN Solute carrier organic anion transporter family member 4C1 OS=Homo  
sapiens GN=SLC04C1 PE=1 SV=1

MKSAKGIEENLAFVPSSPDILRRLSASPSQIEVSALSSDPQRENSQPQELQKPQEPQKSPE  
PSLPSAPPNVSEEKRLSLSEFEEGSYGWRNFHPQCLQRCNTPGGFLLHYCLLAVTQGI  
VVNGLVNISISTVEKRYEMKSSLTGLISSYDISFCLLSLFVSFFGERGHKPRWLAFAAF  
MIGLGALVFSLPQFFSGEYKLGSLFEDTCVTRNSTSCTSSLSNLYVVFILGQLLLG  
AGGTPLYTLGTAFLLDSDVPTHKSSLYIGTYAMSILGPAIGYVLGGQLLTIYIDVAMGES  
TDVTEDDPRWLGAWWIGFLLSWIFAWSLIIPFSCFPKHLPGTAETQAGKTSQAHQSNsNA  
DVKFGKSIKDFPAALKNLMKNAVFMCLVLSTSSEALITTGfATFLPKFIENQFGLTSSFA

ATLGGAFLIPGAALGQILGGFLVSKFRMTCKNTMKFALFTSGVALTSFVFMYACENEP  
FAGVSESYNGTGELGNLIAPCNANCNCSRSYYYPVCGDGVQYFSPCFAGCSNPVAHRKPK  
VYYNCSCIERKTEITSTAETFGFEAKAGKCETHCAKLPIFLCIFIIVIIFTFMAGTPITV  
SILRCVNHRQSLALGIQFMVLRLLGTIPGPIIFGFTIDSTCILWDINDCGIKGACWIYD  
NIKMAHMLVAISVTCKVITMFFNGFAIFLYKPPPSATDVSFHKENAVVTNVLAEQDLNKI  
VKEG

>sp|P35610|SOAT1\_HUMAN Sterol 0-acyltransferase 1 OS=Homo sapiens GN=SOAT1 PE=1 SV=3

MVGEEKMSLRNRLSKSRENPEEDEDQRNPAKESLETSPNGRIDIKQLIAKKIKLTAEAE  
LKPFPMKEVGSFDDFVTNLIEKSASLDNGGCALTTFVLEGEKNNHRAKDLRAPPEQ GK  
IFIARRSLDELLEVDHIRTIIYHMFIALILFILSTLVVDYIDEGRLVLEFSLLSYAFGK  
FPTVVTWWMFLSTFSVPYFLFQHWATGYSKSSHPLIRSLFHGFLFMIFQIGVLFGGPT  
YVVLAYTLPPASRFIIIFEQIRFVMKAHSFVRENVPRVLSAKEKSSTVPIPTVNQYLYF  
LFAPTLIYRDSYPRNPTVRWGYVAMKFAQVFGCFFYVYIIFERLCAPLFRNIKQEPFSAR  
VLVLCVFNSILPGVLILFLTFFAFLHCWLNFAEMLRFGDRMFYKDWNNSTSYSNNYRTW  
NVVVHDWLYYYAYKDFLWFFSKRFKSAAMLAVFAVSAVVHEYALAVCLSFFYPVLFVLFM  
FFGMAFNFI VNSRKKPIWNVLMWTSFLGNGVLLCFYSQEWYARQHCPLKNPTFLDYVR  
PRSWTCRYVF

>sp|Q5TF21|SOGA3\_HUMAN Protein SOGA3 OS=Homo sapiens GN=SOGA3 PE=3 SV=1

MSQPPIGGAAPATAAASPAAAAATEARLHPEGSSRKQRAQSPARPRDSSLRQTIAATRSP  
VGAGTKLNSVRQQQLQQQQQGNKTGSRTGPPASIRGGGGGAEKATPLAPKGAAPGAVQP  
VAGAEAAPAATLAALGRRPGPPEEPPRELESVPSKLGEPPPLGEGGGGGEGGGAGGGS  
GEREGGAPQPPPPRGWRGKGVRAQQRGGSGGEGASPSPPSSSAGKTPGTGSRNSGSGVAG  
GGSGGGGSYWKEGCLQSELIQFHLKKERAAAAAAQMHAKNGGSSSRSSPVSGPPAVC  
ETLAVASASPMAAAAEGPQQAEGSASGGGMQAAAPPSSQPHPQQLQEQEEMQEEMEKL  
EENETLKNEIDELRTEMDEMRTTFEEDACQLQEMRHELERANKNCRILQYRLRKAERKR  
LRYAQTGEIDGELLRSLEQDLKVAKDVSVRLHHELENVEEKRTTTEDENEKL RQQLIEVE  
IAKQALQNELEKMKELSLKRRGSKDLPKSEKKAQQTPTEDNEDLKCQLQFVKEEAALMR  
KKMAKIDKEKDRFEHELQKYRSFYGDLDSPLPKGEAGGPPSTREAEKLRLRLVEEEANI  
LGRKIVELEVENRGLKAELDDLGRDDFNGSANPLMREQSESSEL RQHQLLVEDETELLR  
RNVADLEEQNKRITAE LNKYKYKSGGHSARHHDNAKTEALQEELKAARLQINELSGKVM  
QLQYENRVLMNMQRIDLASHLGIRGSPRSDAESDAGKKESSDDSRPPHRKREGPIGGE  
SDSEEVNIRCLTPTRSFYPAPGPWPKSFSRQMKDIRSEAERLGKTIDRLIADTSTII  
TEARIYVANGDLFGLMDEEDGSRIREHELLYRINAQMKA FRKELQTFIDRLEVPKSADD  
RGAEEPISVSQMFQPIILLILILVLFSSLSYTTIFKLVLFTLFFVL

>sp|Q99523|SORT\_HUMAN Sortilin OS=Homo sapiens GN=SORT1 PE=1 SV=3

MERPWGAADGLSRWPHGLLLLLLQLLPSTLSQDRLDAPPPPAAPLPRWSGPIGWSWGL  
RAAAAGGAFPRGGRWRRSAPGEDEECGRVRDFVAKLANNTHQHVFDDL RGSVLSWVGDS  
TGVILVLTTFHVPLVIMTFGQSKLYRSEDYGNFKDITDLINNTFIRTEFGMAIGPENSG  
KVVLTAEVSGSGRGGRIFRSSDFAKNFVQTDLPFHPLTQMMYSPQNSDYLLALSTENGLW  
VSKNFGGKWEEIHKAVCLAKWGSNTIFFTTYANGSCKADLGALELWRTSDLGKSFKTIG  
VKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGD TWSMAQLPSVGQE QFYSLAANDDM  
VFMHVDEPGDTGFGTIFTSDDRGIVYSKSLDRHLYTTTGGETDFTNVTSLRGVYITSVLS  
EDNSIQTMITFDQGGRWTHLRKPENSECDATAKNKNECSLHIHASYSISQKLNVPMAPLS  
EPNAVGIIVIAHGSVGDAISVMVPDVYISDDGGYSWTKMLEGPHYTTILDSGGIIVAI EHS

SRPINVIKFSTDEGQCWQTYTFTTRDPIYFTGLASEPGARSMNISIWGFTEFLTSQWVS  
TIDFKDILERNCEEKDYTIWLAHSTDPEDYEDGCILGYKEQFLRLRKSSVCQNGRDYVVT  
KQPSICLCSLEDFLCDFGYRPENDSKCQEPELKGHDFCLYGREEHLTTNGYRKIPG  
DKCQGGVNPVREVKDLKKKCTSNFLSPEKQNSKNSVPIILAIVGLMLVTVVAGVLIVKK  
YVCGGRFLVHRYSVLQQHAEANGVDGVDALDTASHTNKSgyHDDSDLEDLLE

>sp|Q07889|SOS1\_HUMAN Son of sevenless homolog 1 OS=Homo sapiens GN=SOS1 PE=1 SV=1

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QAQPRASDVEERVQKSFPHPIDKWAIADAQSAIEKRKRRNPLSLPVEKIHPLLKEVLGY  
KIDHQVSYYIVAVLEYISADILKLVGNVVRNIRHYEITKQDIKVAMCADKVLMDMFHQDV  
EDINILSLTDEEPSTSGEQTYDYLKAFMAEIRQYIRELNLIKVFREPFVSNKLFSAN  
DVENIFSRIVDIHELKLVKLGHIEDTVEMTDEGSPHPLVGSCFEDLAEELAFDPYESYAR  
DILRPGFHDRFLSQLSKPGAALYLSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQL  
EEKSEDQEDKECLKQAITALLNVQSGMEKICSKSLAKRRLSESACRFYSQQMGKQLAIK  
KMNEIQKNIDGWEGKDIGCCNEFIMEGTLTRVGAKHERHIFLFDGLMICCKSNHGQPRL  
PGASNAEYRLKEKFFMRKVQINDKDDTNEYKHAFIILKDENSIVFSAKSAEEKNNWMAA  
LISLQYRSTLERMLDVTMLQEEKEEQMRLPSADVYRFAEPDSEENIIFEENMQPKAGIP  
IKAGTVIKLIERLTYHMYADPNFVRTFLTTRYRSFCKPQELLSLIERFEIPEPEPTADR  
IAIENGDQPLSAELKRFRKEYIQPVQLRVLVNCRHWVEHHFYDFERDAYLLQRMEEFIGT  
VRGKAMKKWVESITKIIQRKKIARDNGPGHNITFQSSPPTVEWHISRPGHIETFDLLTLH  
PIEIRQLTLLESDLYRAVQPSSELVGSVWTKEDKEINSPNLLKMIRHTNLTLWFEKCI  
ETENLEERVAVVSRIEILQVFQELNNFNGVLEVVSAMNSSPVYRLDHTFEQIPSRQKKI  
LEEAEHLSHDHYKKYLAKLRSINPPCVPFYIYLTNLIKTEEGNPEVLKRHGKELINFSK  
RRKVAEITGEIQYQNPYCLRVESDIKRFFENLNPNGSMKEFTDYLFNKSLEIEPRN  
PKPLPRFPKKYSYPLKSPGVRPSNPRPGTMRHPTPLQEQPRKISYSRIPESETESTASAP  
NSPRTPLTPPPASGASSTTDVCSVFDSDHSSPFHSSNDTVFIQVTLPHGPRASVSSISL  
TKGTDEVPPPPVPPRRRPESAPAESSPSKIMSKHLDSPPAIPPRQPTS KAYS PRYSISD  
RTSISDPPESPPLPPREPVRTPDVFSSPLHLQPPPLGKSDHGNAFFPNSPSPFTPPP  
PQTSPHGTTRHLPSPPLTQEVLDLSIAGPPVPPRQSTSQHIPKLPPKTYKRETHPSMH  
RDGPPLLENAHSS

>sp|O15370|SOX12\_HUMAN Transcription factor SOX-12 OS=Homo sapiens GN=SOX12 PE=2 SV=2

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QWPDHMAEISKRLGRRWQLLQDSEKIPFVREAERLRLKHMADYPDYKYRPRKSKGAPA  
KARPRPPGGSGGSRKPGPQLPGRGRRRAAGGPLGGGAAAPEDDDEDDDEELLEVRVLE  
TPGRELWRMPAGRAARGAERAQGPSGEGAAAAAASPTPSEDEEPEEEEEEEEEAAEEG  
EEETVASGEESLGLSRLPPGPAGLDCSALDRDPDLQPPSGTSHFEFPDYCTPEVTEMTA  
GDWRPSSIADLVFTY

>sp|Q9H930|SP14L\_HUMAN Nuclear body protein SP140-like protein OS=Homo sapiens GN=SP140L  
PE=1 SV=3

MAGGGSDLSTRGLNGGVSVQVANEMNHLPAHSQSLQRLFTEDQDVDEGLVYDTVFKHFKRH  
KLEISNAIKKTFPFLEGLRDRELITNKMFESEDSCRNLVPVQRVVYNVLESEKTFNLS  
VLEALFSEVNMQEYPDLIHIYKSFKNAIQDKLSFQESDRKEREERPDIKLSLKQGEVPES  
PEARKESEDQACGMKMDTVDIANNSTLGKPKRKRKKGKGGHWSRMGTRTQKNNQNDNSKAD  
GQLVSSEKKANMNLKDLKIRGRKRGKPGTHFTQSDRAPQKRVRSRASRKHKDETVDFA  
PLLPTCGGVKGIHKEKLEQGTAKCIQTEDGKWFTPMFEFEIKGGYARSKNWRLSVRCG

GWPLRRLMEEGSLPNPPRIYYRNKKRILKSQNNSSVDPMRNLDECEVCRDGGELFCCDT  
CSRVFHEDCHIPPVESEKTPWNCIFCRMKESPGSQCCQESEVLERQMCPEEQLKCEFL  
LKVYCCSESSFFAKIPYYYYIREACQGLKEPMWLDKIKRLNEHGYPQVEGFVQDMRLIF  
QNHRSYKYKDFGQMGLRLEAEFEKDFKEVFAIQETNGNS

>sp|Q9Y5B9|SP16H\_HUMAN FACT complex subunit SPT16 OS=Homo sapiens GN=SUPT16H PE=1 SV=1

MAVTLDDKDAYYRRVKRLYSNWRKGEDEYANVDAIVVSVGVDEEIVYAKSTALQTWLFGYE  
LTDTIMVFCDDKIIFMASKKKVEFLKQIANTKGNEANGAPAITLLIREKNESNKSSFDK  
MIEAIKESKNGKKIGVFSKDKFPGEFMKSWNDCLNKEGFDKIDISAVVAYTIAVKEDGEL  
NLMKKAASITSEVFNKFFKERVMEIVDADEKVRHSLAESVEKAIEKKYLAGADPSTVE  
MCYPPIIQSGGNYNLKFVSDKNHMHFGAITCAMGIRFCSYCSNLVRTLMVDPSQEVQE  
NYNFFLLQLQEELLKELRHGVKICDVYNAVMDVVKQKPELLNKITKNLGFGMGIEFREGS  
LVINSKNQYKLKKGVMFSINLGFSDLTNKEGKKPEEKTYALFIGDVLVDEDPATVLT  
VKKKVKNVGIFLKNEDEEEEEEKDEAEDLLGRGSRAALLTERTRNEMTAEKRRAHQKE  
LAAQLNEEAKRRLTEQKGEQQIQKARKSNVSYKNPSLMPKEPHIREMKIYIDKKYETVIM  
PVFGIATPFHIATIKNISMSVEGDYTYLRINFYCPGSALGRNEGNIFPNPEATFVKEITY  
RASNIKAPGEQTPALNLQNAFRIKEVQKRYKTREAEKEKEGIVQDSLVINLNRSNP  
KLKDLIYRPNIAQKRMQGSLEAHVNGFRFTSVRGDKVDILYNNIKHALFQPCDGEMIIVL  
HFHLKNAIMFGKKRHTDVQFYTEVGEITDGLGKHQMHDRDDLAEQMEREMRHLKTAF  
KNFIEKVEALTKEELEFEVPPFRDLGFNGAPYRSTCLLQPTSSALVNATEWPPFVVTLDEV  
ELIHFERVQFHLKNFDMVIVYKDYSKKVTMINAIPVASLDPIKEWLNCDLKYTEGVQSL  
NWTKIMKTIVDDPEGFFEQGGWSFLEPEGEESDAEEGDSESEIEDETNPSEDDYEEEE  
DSDDEDYSSEAEESDYSKESLGSEESGKDWELEEEARKADRESRYEEEEEQSRMSRKR  
KASVHSSGRGSRHSSAPPKKKRK

>sp|P08047|SP1\_HUMAN Transcription factor Sp1 OS=Homo sapiens GN=SP1 PE=1 SV=3

MSDQDHSMDTAVVKIEKGVGGNNGGNGGGGAFSQARSSSTGSSSSTGGGGQESQPSP  
LALLAATCSRIESPNENSNNNSQGPSQSGGTGELDLTATQLSQGANGWQIISSSSGATPTS  
KEQSGSSTNGSNGSESSKNRTVSGGQYVVAAPNLQNNQVLTGLPGVMPNIQYQVIPQFQ  
TVDGQQLQFAATGAQVQDQSGGQIQIIPGANQQIITNRGSGGNIIAAMPNLLQQAAPLQG  
LANNVLSGQTQYVTNPVALNGNITLLPVNSVSAATLTPSSQAVTISSSGSQESGSPVT  
SGTTISSASLVSSQASSSSFFTNANSYSTTTTNSMGIMNFTTSGSSGTNSQGQTPQRVS  
GLQGS DALNIQQNQTSGGSLQAGQKQKEGEQNNQTQQQQILIQQLVGGGQALQALQAAPL  
SGQTFTTQAISQETLQNLQLQAVPNSGPIIIRTPTVGPNGQVSWQTLQLQNLQVQNPQAQ  
TITLAPMQGVSLGQTSSSNTLTPIASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTS  
GIQVHPIQGLPLAIANAPGDHGAQLGLHGAGGDGIHDDTAGGEEGENSPDAQPQAGRTR  
REACTCPYCKDSEGRGSDPGKKKQHICHIQGCGKVYGKTSHLRAHLRWHTGERPFMCTW  
SYCGKRFTRSDQLRHKRTHTEGKKFACPECPKRFMRSDHLSKHIKTHQNKKGPGVALS  
VGTLPLDSGAGSESGTATPSALITTNMVAMEAICPEGIARLANSGINVMQVADLQSI  
SGNGF

>sp|Q02086|SP2\_HUMAN Transcription factor Sp2 OS=Homo sapiens GN=SP2 PE=1 SV=3

MSDPQTSMAATAAVSPSDYLQPAASTTQDSQPSPLALLAATCSKIGPPAVEAAVTPPAPP  
QPTPRKLVPIKPAPLPLSPGKNSFGILSSKGNILQIQGSQLSASYPGGQLVFAIQNPMTI  
NKGTRSNANIYQAVPQIQASNSQTIQVQPNLTNQIQIIPGTNQAIIITPSPSSHKPVPIK  
PAPIQKSSTTTTPVQSGANVVKLTGGGGNVTLTPVNNLVNASDTGAPTQLLTESPTPL  
SKTNKKARKKSLPASQPPVAVAEQVETVLIETTADNIIQAGNNLLIVQSPGGGQPAVVQQ



VQVPPKAEQQQVVQIPQQALRVVQAASATLPTVPQKPSQNFQIQAAEPTPTQVYIRTPS  
GEVQTVLVQDSPPATAAATSN TTCSSPASRAPHLSGTSKKHSAAILRKERPLPKIAPAGS  
IISLNAAQLAAAAQAMQTININGVQVQGVPTITNTGGQQQLTVQNVSGNNLTISGLSPT  
QIQLQMEQALAGETQPGEKRRRMACTCPNCKDGEKRSGEQGKKKHVCHIPDCGKTRKTS  
LLRAHVRLHTGERPFVCNWFFCGKRFTSRDELQRHARTHTGDKRFECAQCQKRFMRSDHL  
TKHYKTHLVTKNL

>sp|Q5VX52|SPAT1\_HUMAN Spermatogenesis-associated protein 1 OS=Homo sapiens GN=SPATA1  
PE=2 SV=3

MSLNPSRPSSSELVELHV FYVPEGSWNYK LNTISTEVVNKFISAGFLRVSPQLTLRALRE  
RLGEFLGEDAIAEKFLFKCIGNNLAVVKEKQESLKLKSFAPPYALQPELYLLPVM DHL  
GNVYSPSTVILDERQTNGVN EADGTIHRPISVTLFKEELGRDPSLLENTLKELPNKNQE  
EAGGKATAEKSQIAKNQIGNSELPGSLED SNDCFGTKKSQCLWENEDDTAISRRQDNQT  
AEKEYITLPDHPSLPCQPV LSSGITDISLLQTEREKIIKQMKQVKEERRYLER NREELVK  
TVEKLFEQSKLKR YHAYNGWKKKYLETKKV TASMEEV LTKLREDLELYYKLLMQLEARE  
IKMRPNLANITDSKNYLI IQITEVQHAIDQLKRKLDTDKMKLIVEVKMRKQAVSDLR TL  
KTELAQKKKIIHLYNLN

>sp|P48594|SPB4\_HUMAN Serpin B4 OS=Homo sapiens GN=SERPINB4 PE=1 SV=2

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQISKVLHFD  
QVTENTTEKAATYHVD RSGNVHHQFQKLLTEFNKSTDAYELKIANKLFG EKTYQFLQEYL  
DAIKKFYQTSVESTDFANAP EESRKKINSWVESQTNEKIKNLPDGTIGND TTLVLVNAI  
YFKGQWENKFKKENTKEEF WPNKN TYKSVQMMRQYNSFN FALLEDVQAKVLEIPYKGKD  
LSMIVLLPNEIDGLQKLE EKLTA EKLMEWTS LQNMRETCVDLHLPRFKMEESYDLKDTLR  
TMGMVNIFNGDADLSGMT WSHGLSVSKVLHKA FVEVTEEGVEAAAATAVVVV ELSSPSTN  
EEFCCNHPFLFFIRQNK TNSILFYGRFSSP

>sp|P50453|SPB9\_HUMAN Serpin B9 OS=Homo sapiens GN=SERPINB9 PE=1 SV=1

METLSNASGTFAIRLLKILCQDNPSHN VFCSPVSISSALAMVLLGAKNTATQMAQALSL  
NTEEDIHRAFQSLLEVN KAGTQYLLRTANRLFGEKTCQFLSTFKESCLQFYHAELKELS  
FIRAAEESRKHINTWVSKKTEGKIEELLPGSSIDAETRLVLVNAIYFKGWN EPFDETYT  
REMPFKINQEEQRPVQMMYQEATFKLAHVGEVRAQLLELPYARKELSL LVLLPDDGVELS  
TVEKSLTFEKLTAWTKPDCMKSTEVEVLLPKFKLQEDYDMESVLRHLGIVDAFQQGKADL  
SAMSAERDLCLSKFVHKS FVEVN EEGTEAAAASSCFVVAECCMESGPRFCADHPFLFFIR  
HNRANSILFCGRFSSP

>sp|Q9HD40|SPCS\_HUMAN O-phosphoseryl-tRNA(Sec) selenium transferase OS=Homo sapiens  
GN=SEPSECS PE=1 SV=2

MNRESFAAGERLVSPAYVRQGCEARRSHEHLIRLLLEKGKCPENGWDESTLELFLHELAI  
MDSNNFLGNCVGGEREGRVASALVARRHYRFIHGIGRSGDISAVQPKAAGSSLLNKITNS  
LVLDIIKLAGVHTVANC FVVP MATGMSLTLCFLTLRHKRPKAKYIIWPRIDQKSCFKSMI  
TAGFEPVVIENVLEGDELRTDLKAVEAKVQELGPD CILCIHSTTSCFAPRPVDRLEELAV  
ICANYDIPHIVNNAYGVQSSKCMHLIQGARVGRIDAFVQSLDKNFMVPVGGAI IAGFND  
SFIQEISKMPGRASASPSLDV LITLLSLGSNGYKKLLKERKEMFSYLSNQIKK LSEAYN  
ERLLHTPHNPISLAMTLKTLDEHRDKAVTQLG SMLFTRQVSGARVVPLGSMQTVSGYTFR  
GFMSHTNNYP CAYLNAASAIGMKMQDV DLFIKRLDRCLKAVRKERSKESDDNYDKTEDVD  
IEEMALKLDNVLLD TYQDASS

>sp|A6NLX3|SPDE4\_HUMAN Speedy protein E4 OS=Homo sapiens GN=SPDYE4 PE=2 SV=2

MASGQARPPFEEESPQPSTTVRSPEVVVDDEVGPSAPWIDPSPQPQSLGLKRKSEWSDE  
SEEEEELELERAPEPEDTWVETLCGLKMKLKRKRASSVLPEHHEAFNRLLGDPVVQK  
FLAWDKDLRVSDKYLLAMVIAYFSRAGLSWQYQRIHFFLALYLASDMEEDNQAPKQDIF  
SFLYGKNYSQRPLFHKLRYLQLLCSMRWRTWVSPEEMEEIQAYDPEHWVWARDRTLIS

>sp|A6NHP3|SPE2B\_HUMAN Speedy protein E2B OS=Homo sapiens GN=SPDYE2B PE=3 SV=2

MDRTETFRFRKGQITGKITTSRQPHPQNEQSPQRSTSGYPLQEVVDDEMLGPSAPGVDPS  
PPCRSLGWKRKREWSDESEEEPEKELAPEPEETWVVEMLCGLKMKLQQRVSSILPEHHK  
DFNSQLAPGVDPSPPHRSFCWKRKMEWWDESEESLEEEPRKVLAPEPEEIWVAEMLCGLK  
MKLKRRLVSLVPEHHEAFNRLLLEDPVIKRFLAWDKDLRVSDKYLLAMVIAYFSRAGFPS  
WQYQRIHFFLALYLANDMEEDDEDSKQNIHFHLYRKNRSRIPLLRKPFQLGHSMNPRAR  
KNRSRIPLLRKRRFQLYRSTNPRARKNRSRIPLLRKRRFQLYRSMNSRARKNRSQIVLFQ  
KRRFHFFCSMSCRAWVSPEEEIQAYDPEHWVWARDRAHLS

>sp|POCW21|SPGOS\_HUMAN Putative uncharacterized protein SPG20-AS1 OS=Homo sapiens  
GN=SPG20-AS1 PE=4 SV=1

MKDIGHLQHLAQRLQWNRRAVNICGMHGWTKDLSPHSRMPMSLEHVKHVMSC

>sp|075830|SPI2\_HUMAN Serpin I2 OS=Homo sapiens GN=SERPINI2 PE=1 SV=1

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LGAKGKAQQQIRQTLKQQETSAGEEFFVLKSFFSAISEKKQEFTFNLANALYLQEGFTVK  
EQYLHGKNEFFQSAIKLVDFQDAKACAEMISTWVERKTDGKIKDMFSGEEFGPLTRLVLV  
NAIFYKGDWKQKFRKEDTQLINFTKKNGSTVKIPMMKALLRTKYGYFSESSLNYQVLELS  
YKGDEFSLIIILPAEGMDIEEVEKLITAQQILKWLESEMEEEEVEISLPRFKVEQKVDFKD  
VLYSLNITEIFSGGCDLSGITDSSEVYVSQVTQKVFFEINEDGSEAATSTGIHIPVIMSL  
AQSQFIANHPFLFIMKHNPTESILFMGRVTNPDTQEIKGRDLDSL

>sp|Q8NOZ3|SPICE\_HUMAN Spindle and centriole-associated protein 1 OS=Homo sapiens  
GN=SPICE1 PE=1 SV=1

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RALVHWELQEAKLRKWRKQKPETLNLEKRRLSIMKEILSDQYQMVDVLEKSDHLIAAAK  
ELFPRRRTGFPNVTVPDSSQGPIVVNQDPITQSIFNESVIEPQALNDVDGEEGTVNSQ  
SGESENENELDNSLSQSNNTNDRFLQQLTEENFELISKLWTDIQQKIATQSQITPPGTP  
SSALSSGEQRAALNATNAVKRLQTRLQPEESTETLDSSYVVGHVLSNRKQKQLLNKVKRK  
PNLHALSKPKKNISSGSTTSADLPNRTNSNLDVLKHMIEHEHEMEEYERWTGREVKGLQ  
SSQGLTGFTLSLVSSLCRLVRYLKESEIQLRKEVETRQQLEQVLGDHRELIDALTAEILR  
LREENAATQARLQQYVMTTDEQLISLTHAIKNCPVINNRQEIQASESGATGRRVMDSPER  
PVVNANVSVPLMFREEVAEFPQEELPVKLSQVPDPDNMNLAKNFAHIFEPVLLTPPR  
QKSNLKFSPQLQDVLRRVTQTRPAPRLPPTVEIEKEQNWEEKTLPIDTDIQNSSEENRLF  
TQRWRVSHMGEDLENKTQAPFVNLSQPLCNHSNTQQSRSPTFSEELPVLGDGQQLRTNE  
SLIQRKDIMTRIADLTQNSAIKAHMNNIIIEPRGEQGDGLRELNKQESASDMTSTFPVAQ  
SLTPGSMEERIAELNRQSMEARGKLLQLIEQQKLVGLNLSPPMSPVQLPLRAWTEGAKRT  
IEVSI PGAEAPESSKCS TVSPVSGINTRRSSGATGNSCSPLNATSGSGRFTPLNPRAKIE  
KQNEEGWFALSTHVS

>sp|Q8IUH8|SPP2C\_HUMAN Signal peptide peptidase-like 2C OS=Homo sapiens GN=SPPL2C PE=1  
SV=3

MACLGFLLPVGFLLLISTVAGGKYGAHVVSSENWSKDYCILFSSDYITLPRDLHHAPLLP  
LYDGTKAPWCPGEDSPHQAQLRSPSQRPLRQTTAMVMRGNC SFHTKGWLAQGQGAHGLLI

VSRVSDQQCSDTTLAPQDPRQPLADLTIPVAMLHYADMLDILSHTRGEAVVRVAMYAPPE  
PIIDYNMLVIFILAVGTVAAGGYWAGLTEANRLQRRRARRGGGSGGHHQLQEAAAEGAQ  
KEDNEDIPVDFTPAMTGVVVTLSCSLMLLLYFFYDHFVYVTIGIFGLGAGIGLYSCLSP  
VCRLSLRQYQRPPHSLWASLPLPLLLLASLCATVIFWVAYRNEDRWAWLLQDTLGISYC  
LFVLHRVRLPTLKNCSFLLALLAFDVFFVFTPFFTKTGESIMAQVALGPAESSHERL  
PMVLKVPRLRVSALTLC SQPFSILGFGDIVVPGFLVAYCCRFDVQVCSRQIYFVACTVAY  
AVGLLVTFMAMVLMQMGQPALLYVSSTLLTSLAVAACRQELSLFWTGQGRAKMCGLGCA  
PSAGSRQKQEGAADAHTASTLERTSRGAGDLDSNPGEDTTEIVTISENEATNPEDRSDS  
SEGWSDAHLDPNELPFIPPGASEELMPLMPMAMLIPLMPLMPPPSELGHVHAQAQAHETG  
LPWAGLHKRKGLKVRKSMSTQAPL

>sp|Q7Z698|SPRE2\_HUMAN Sprouty-related, EVH1 domain-containing protein 2 OS=Homo sapiens  
GN=SPRED2 PE=1 SV=2

MTEETHPDDDSYIVRVKAVVMTRDDSSGGWFPQEGGGISRVGVCKVMHPEGNGRSGFLIH  
GERQDKLVVLECYVRKDLVYTKANPTFHHWKVDNRKFGLTFQSPADARAFDRGVRKAIE  
DLIEGSTSSSTIHNEAELGDDDVFTTATDSSSNSSQKREQPTRTISPTSCEHRIYTL  
GHLHDSYPTDHYHLDQPMRPYRQVSFPDDDEEIVRINPREKIWMYGYEDYRHAPVRGKY  
PDPSEDADSSYVRFAGEVYPKHNYNYPYVDSSDFGLGEDPKGRGGSVIKTQPSRGKSRRR  
KEDGERSRCVYCRDMFNHEENRRRGCQDAPDSVRTCIRRVSCMWCADSMYHCMSDPEGD  
YTDPCSCDTSDEKFCLRWMLIALSFLAPCMCCYLPLRACYHCGVMCRCCGGKHKAAA

>sp|Q5BIV9|SPRN\_HUMAN Shadow of prion protein OS=Homo sapiens GN=SPRN PE=2 SV=1

MNWAPATCWALLAAAFLCDSGAAKGGRGARGSARGGVGGARGASRVVRPAQRYGAP  
GSSLRVAAAGAAAGAAAGAAAGLAAGSGWRAAGPGERGLEDEEDGVPGGNGTGPGIYSY  
RAWTSGAGPTRGPRCLVLGGALGALGLLRP

>sp|Q9UBC9|SPRR3\_HUMAN Small proline-rich protein 3 OS=Homo sapiens GN=SPRR3 PE=1 SV=2

MSSYQQKQFTFTPPQLQQQVKQPSQPPPQEIFVPTTKEPCHSKVPQPGNTKIPEPGCTK  
VPEPGCTKVPEPGCTKVPEPGCTKVPEPGCTKVPEPGCTKVPEPGYTKVPEPGSIKVPDQ  
GFIKFPEPGAIVPEQGYTKVPVPGYTKLPEPCPSTVTPGPAQQKTKQK

>sp|Q9NUQ6|SPS2L\_HUMAN SPATS2-like protein OS=Homo sapiens GN=SPATS2L PE=1 SV=2

MAELNTHVNVKEIYAVRSVVPNKSNEIVLVLQQFDNFVDKAVQAFVDGSAIQVLKEWN  
MTGKKKNNKRKRSKSKQHKGNDKADKVERPEAGPLQPQPPQIQNGPMNGCEKDSSSTDS  
ANEKPALIPREKKISILEEPSKALRGVTEGNRLQKLSLDGNPKPIHGTTERSDDLQWS  
AEQPCNPSPKPAKTSVPKSNTAAHLEIKPDELAKKRGPNIEKSVKDLQRCTVSLTRYRV  
MIKEEVDSSVKKIKAAFAELHNCIIDKEVSLMAEMDKVKEEAMEILTARQKKAEEKRLT  
DLASQMAEMQLAELRAEIKHFVSEKRYDEELGKAARFSCDIEQLKAQIMLCGEITHPKNN  
YSSRTPCSLLPLLNAHAATSGKQSNFSRKSSSTHNKPSGKAANPKMVSSLPSTADPSHQ  
TMPANKQNGSSNQRRRFNPQYHNRLNGPAKSQSGGNEAEPLGKGNRHEHRRQPHNGFR  
PKNKGGAQNQEASLGMKTPEAPAHSEKPRRRQHAADTSEARPFGRGSVGRVSQCNCPCPTRI  
EVSTDAAVLSVPAVTLVA

>sp|Q96BD6|SPSB1\_HUMAN SPRY domain-containing SOCS box protein 1 OS=Homo sapiens GN=SPSB1  
PE=1 SV=1

MGQKVTGGIKTVDMRDPTYRPLKQELQGLDYCKPTRLDLLDMPPVSYDVQLLHSWNNND  
RSLNVFVKEDDKLIFHRHPVAQSTDAIRGKVG YTRGLHVWQITWAMRQRGTHAVVGVATA  
DAPLHSVGYTTLVGNHESWGWDLGRNRLYHDGKNQPSKTYPAFLEPDETFIVPDSFLVA  
LDMDDGTL SFIVDGQYMGVAFRGLKGKKLYPVVSAVWGHCEIRMRYLNGLDPEPLPLMDL

CRRSVRLALGRERLGEIHTLPLPASLKAYLLYQ

>sp|Q96A44|SPSB4\_HUMAN SPRY domain-containing SOCS box protein 4 OS=Homo sapiens GN=SPSB4  
PE=1 SV=1

MGQKLSGSLKSVEVREPALRPAKRELGAEPGRPARLDQLLDMPAAGLAVQLRHAWNPD  
RSLNVFVKDDDLTFHRHPVAQSTDGIRGKVGHARGLHAWQINWPARGTHAVVGVATA  
RAPLHSVGYTALVGSDAESWGDLGRSRLYHDGKNQPGVAYPAFLGPDEAFALPDSLLVV  
LDMDEGTLSTFIVDGQYLGVAFRGLKGGKLYPVVSAVWGHCEVTMRYINGLDPEPLPLMDL  
CRRSIRSALGRQRLQDISSLPLPQSLKKNYLQYQ

>sp|P52788|SPSY\_HUMAN Spermine synthase OS=Homo sapiens GN=SMS PE=1 SV=2

MAAARHSTLDFMLGAKADGETILKGLQSIFQEQQMAESVHTWQDHGYLATYTNKGSFAN  
LRIYPHGLVLLDLQSYDGAQKKEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAI  
DRYWPTADGRLVEYDIDEVVYDEDSFYQNIKILHSKQFGNIIILSGDVNLAESDLAYTRA  
IMGSGKEDYTGKDVILGGDGGILCEIVKLKPKMVTMVEIDQMVIDGCKKYMRTCGDV  
LDNLKGDYCYQLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPPEEDSTWEFLRLILD  
LSMKVLKQDGKYFTQGCNVLTEALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTV  
WKKAKP

>sp|Q7Z5L4|SPT19\_HUMAN Spermatogenesis-associated protein 19, mitochondrial OS=Homo  
sapiens GN=SPATA19 PE=2 SV=2

MIITTWIVYILARKGVGLPFLPITSSDIDVVESEAVSVLHHWLKKTEEEASRGIKEKLSI  
NHPSQGVREKMSTDSPPTHGQDIHVTRDVVKHHLKSDLLANQSQEVLEERTRIQFIRWS  
HTRIFQVPSEMTEDIMRDRIEQVRRSISRLTDVSAQDFSMRPSSSDC

>sp|Q8TB22|SPT20\_HUMAN Spermatogenesis-associated protein 20 OS=Homo sapiens GN=SPATA20  
PE=2 SV=3

MLGARAWLGRVLLLPRAGAGLAASRRGSSSRDKDRSATVSSSVMPAGGKGSHPSSSTPQR  
VPNRLIHEKSPYLLQHAYNPVDWYPWGQEAQFDKARKENKPIFLSVGYSTCHWCHMMEEES  
FQNEEIGRLLSEDFVSVKVDREERPVDVKVYMTFVQATSSGGGWPMNVWLT PNLQPFVGG  
TYFPPEDGLTRVGFRTVLLRIREQWKQNKNTLLENSQRVTALLARSEISVGDRQLPPSA  
ATVNNRCFQQLDEGYDEEYGGFAEAPKFPTPVILSFLFSYWLSHRLTQDGSRAQQMALHT  
LKMMANGGIRDHVGQGFHRYSTDRQWHVPHFEKMLYDQAQLAVAYSQAFQLSGDEFYSV  
AKGILQYVARSLSHRSGGFYSAEDADSPPERGQRPKEGAYVWTVKEVQQLPEPVLGAT  
EPLTSGQLLMKHYGLTEAGNISPSQDPKGELQGQNVLTVRYSLELTAARFGLDVEAVRTL  
LNSGLEKLFQARKHRPKPHLDSKMLAAWGLMVSgyAVTGAVLGQDRLINyATNGAKFLK  
RHMFDVASGRLMRTCYTGGTVEHSNPPCWGFLEDYAFVVRGLLDLYEASQESAWLEWA  
LRLQDTQDKLFWDSQGGGYFCSEAEGLAGLPLRLKDDQDGAEPSANSVSAHNLRLHGFT  
GHKDWMDKCVCLLTAFSERMRRVPVALPEMVRALSAQQQTLKQIVICGDRQAKDTKALVQ  
CVHSVYIPNKVLILADGDPSSFLSRQLPFLSTLRRLEDQATAYVCENQACSVPIITDPCEL  
RKLLHP

>sp|P63272|SPT4H\_HUMAN Transcription elongation factor SPT4 OS=Homo sapiens GN=SUPT4H1  
PE=1 SV=1

MALETVPKDLRHLRACLLCSLTKIDQFEYDGCNCDAYLQMKGNREMYDCTSSSFDGI  
IAMSPEDSWVSKWQRVSNFKPGVYAVSVTGRLPQGIVRELKSRGVAYKSRDTAIKT

>sp|Q969W0|SPTSA\_HUMAN Serine palmitoyltransferase small subunit A OS=Homo sapiens  
GN=SPTSSA PE=1 SV=2

MAGMALARAWQMSWFYYQYLLVTALYMLEPWERTVFNSMLVSIVGMALYTGyVFMPQHI

MAILHYFEIVQ

>sp|O15042|SR140\_HUMAN U2 snRNP-associated SURP motif-containing protein OS=Homo sapiens  
GN=U2SURP PE=1 SV=2

MADKTPGGSQKASSKTRSSDVHSSGSSDAHMDASGPSDSMDPSRTRPKSPRKHNRYRNESA  
RESLCDSPHQNLSRPLENKLKAFSIGKMSTAKRTLKKEQEELKKKEDEKAAAEIYEEF  
LAAFEKSDGNKVKTFVRGGVVNAAKEEHETDEKRGKIYKPSSRFADQKNPPNQSSNERPP  
SLLVIETKKPPLKKGEKEKKKSNLELFKEELKQIQEERDERHKTGRLSRFEPPQSDSDG  
QRRSMDAPSRNRSSGVLDYAPGSHDVGDPSTTNLYLGNINPMNEEMLCQEFGRFGPL  
ASVKIMWPRTDEERARERNCGFVAFMNRDAERALKNLNGKMIMSFEMKLGWGKAVPIPP  
HPIYIPPSMMEHTLPPPPSGLPFNAQPRERLKNPNAPMLPPPKNKEDEKTLKQAIKVV  
IPTERNLLALIHRIEFVVRREGPMFEAMIMNREINNPMFRFLFENQTPAHVYYRWKLYSI  
LQGDSPTKWRTEDFRMFKNQSFWRPPPLNPLYLHGMSEEQTEAFVEEPSKKKALKEEQRD  
KLEEILRGLTPRKNDIGDAMVFLNNAEAAEEIVDCITESLSILKTPLPKKIARLYLVSD  
VLYNSSAKVANASYRKFFETKLCQIFSDLNATYRTIQGHLQSENFKQVRMTCFRAWEDW  
AIYPEPFLIKLQNLFLGLVNIIEEKETEDVPDDLGDGAPIEEELDGAPLEDVDGIPIDATP  
IDDLDGVPKISLDDDLGVPLDATEDSKKNEPIFKVAPSKWEAVDESELEAQAVTTSKWE  
LFDQHEESEEENQEQEESEDEEDTQSSKSEEHLYSNPIKEEMTESKFSKYSEMSEEK  
RAKLREIELKVMKFQDELESGRPPKPGQSFQEQVEHYRDKLLQREKEKELERERERDKK  
DKEKLESRSKDKKEKDECTPTRKERKRRHSTSPSPSRSSSGRRVKSPSPKSERSERSERS  
HKESSRSRSSHKDSPRDVSKAKRSPSGSRTPKRSRRSRSPKSGKKSRSQSRSRPHRS  
HKSKSKNKH

>sp|Q8N9Q2|SR1IP\_HUMAN Protein SREK1IP1 OS=Homo sapiens GN=SREK1IP1 PE=1 SV=1

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KKSKSKKGKHHKKEKKRKKKEHSSTPNSSEFSRK

>sp|Q9Y285|SYFA\_HUMAN Phenylalanine--tRNA ligase alpha subunit OS=Homo sapiens GN=FARSA  
PE=1 SV=3

MADGQVAELLLRRLASDGGLSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKH  
WELTAEGEEIAREGSHEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAA  
DGPRVFRVDSMEDEVQRRLLQVRGGQAEKLGKERSSELRRKLLAEVTLKTYWVSKGSA  
FSTSISKQETELSPEMISSGSWRDRPFKPYNFLAHGVLPSGHLHPLLKVRSQFRQIFLE  
MGFTEPMTDNFIESSFWNFDAFQPPQHPARDQHDTFFLRDPAEALQLPMDYVQVRKRTH  
SQGGYGSQGYKYNWKLDEARKNLLRTHHTSASARALYRLAQKKPFTPVKYFSIDRVFRNE  
TLDATHLAEFHQIEGVVADHGLTLGHLMGVLREFFTKLGITQLRFKPAYNPYTEPSMEVF  
SYHQGLKKWVEVGNSGVFRPEMLLPMLPENVSIAWGLSLERPTMIKYGINNIRELVGH  
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>sp|Q6ZMZ3|SYNE3\_HUMAN Nesprin-3 OS=Homo sapiens GN=SYNE3 PE=1 SV=2

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ARDEFYRWFQKMMVTLEPHIELQLGLKEKQWQLSHAQVLLHNVDNQAVLLDRLLEEAASL  
FNRIQDPSVDEDAQKRMKAEYDAVKAKAQKRVLDLEQVAREHEEYQAGVDEFQLWLKAVV  
EKVNGCLGRNCKLPITQRLSTLQDIAKDFPRGEESLETLEEQSAGVIRNTSPLGAEKITG  
ELEEMRKVLEKLRLWEEEEERLRLLSRGAWEQQIKQLEAELSEFRMVLQRLAQEGLQ  
PAAKAGTEDELVAHWRRYSATRAALASEEPRVDRLQAQLKELIVFPHNLKPLSDSVIATI

QEYQSLKVK SARLRNAAVELWQHFRPLQDLQLWKALAQRLLEV TASLPDLPSLHTFLP  
QIEAALMESSRLKELLTMLQLKKDLLIGIFGQERATALLEQVAGSMRDRDLLHNSLLQRK  
SKLQSLLAQHKDFGA AFEPLQRKLLDLQVRVQAEKGLQRDLPGKQAQLSRLQGLQEEGLD  
LGAQMEAAARPLVQENPNHQHKMDQLSSDFQALQRSLEDLVDRCRQSVQEHCTFSHQLEL  
RQWIVVTQKLEAHRGEAGPGDAESQEA EFERLVAEFPEKEAQLSLVEAQGWLVMEKSSP  
EGA AVVQEELRELAESWRALRLLEESLLSLIRNWHLQRMEVDSGKKMVFTNNIPKSGFLI  
NPM DPIP RHRRRANLLQEEEGSHEDFSQLLRNFGQWLQVENS KLVR I I AMRTSTAEDLRT  
RKSKLQELEARVPEGQH L FENLRLGPARGTSDELED LRYQWMLYKSKLKDSGHLLTQSS  
PGEPTGFQKTRRWRLGSLFRRACCV ALPLQLLLLLFLLLLFLLP IREEDRSCTLANNFA  
RSFTLMLRYNGPPPT

>sp|Q9UMS6|SYNP2\_HUMAN Synaptopodin-2 OS=Homo sapiens GN=SYNP02 PE=1 SV=2

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RPA TKTQCTEFFLAPVKTEVPLAENQRSGPDCAGSLKEETGPSYQ RAPQMPDSQRGRVAE  
ELILREKVEAVQPGPVVELQLSLSQERHKGASGPLVALPGA EKS KSPDPDPNLSHDRVH  
INSIPTNEKADPFLRSSKI IQISSGREL RVIQ ESEAGDAGLPRVEVILDCSDRQKTEGCR  
LQAGKECVDSPVEGGQSEAPPSLVSF AVSSEGTEQGEDPRSEKDHSRPHKHRARHARLRR  
SESLSEKQVKEAKSKCKSIALLLTDAPNPNSKGVL MFKKRRRRRARKYTLVSYGTGELERE  
ADEEEEGDKEDTCEVAFLGASESEVDEELLSDVDDNTQV VNFWDW SGLVDIEKKLNRGDK  
MEMLPD TTGKGALMFAKRRERMDQIT AQKEEDKVGGTPSREQDAAQTDGLRTTTSYQRKE  
EESVRTQSSVSKSYIEVSHGLGHVPQQNGFSGTSETANI QRMVPMNRTAKPFPGSVNQPA  
TPFSPTRNMTSPIADFPAPPPYSAVTPPPDAFSRGVSSPIAGPAQPPWPQPAPWSQPAF  
YDSSERIASRDERISVPAKRTGILQEAKRRSTTKPMFTFKEPKVSPNPELLSLLQNSEGK  
RGTGAGGDSGPEEDYLSLGAEACNFMQSSSAKQKTPPPVAPKPAVKSSSSQPVTPVSPVW  
SPGVAPTQPPAFPTSNPSKGT VSSIKIAQPSYPPARPA STLNVAGPFKGPQA AVASQNY  
TPKPTVSTPTVNAVQPGAVGPSNELPGMSGRGAQLFAKRQSRMEKYVVDSDTVQAHAARA  
QSPTPSLPASWKYSSNVRAPPPVAYNPIHSPSYPLAALKSQPSAAQPSKMGKKKGKKPLN  
ALDVMKHQPYQLNASLFTFQPPDAKDGLPQKSSVKVNSALAMQALPPRPVNAASPTNVQ  
ASSVYSVPAYTSPPSFFAEASSPV SASPVPGIPTSPKQESASSSYFVAPRPKFSAKKSG  
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>sp|Q8IV01|SYT12\_HUMAN Synaptotagmin-12 OS=Homo sapiens GN=SYT12 PE=1 SV=1

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YLQQKYGESCAEAREKRVPAWNAQRASTRGPPSRKGSLSIEDTFESISELGPLELMGREL  
DLAPYGT LRKSQSADSLN SSVSNTFGQDFTLGQVEVSMEYDTASHTLNVAVMQGKDLL  
EREEASFESCFMRVSLLPDEQIVGISRIQRNAYSIFFDEKFSIPLDPTALEEKS LRF SVF  
GIDEDERNVSTGVVELKLSVLDLPLQPFSGWLYLQDQNKAA DAVGEILLSLSYLPTAERL  
TVVVVKAKNLIW TNDKTTADPFVKVYLLQDGRKMSKKKTAVKRDDPNPVFNEAMIFSVPA  
IVLQDLSLRVTVAESSSDGRGDNVGHV IIGPSASGMGTTHWNQMLATLRRPVSMWHAVRR  
N

>sp|Q9BSW7|SYT17\_HUMAN Synaptotagmin-17 OS=Homo sapiens GN=SYT17 PE=1 SV=1

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LIDIKPIEFGVLSAKKEPIQPSVLRRTYNPDDYFRKFEPHLYSLDSNSDDVDLSLTDEEIL  
SKYQLGMLHFSTQYDLLHNHLTVRVIEARDLPPPI SHDGSRQDMAHSNPYVKICLLPDQK

NSKQTGVKRKTQKPVFEERYTFEIPFLEAQRRTLLLTVVDFDKFSRHCVIGKVSVP LCEV  
DLVKGHHWKALIPSSQNEVELGELLLSLNYLPSAGRLNVDVIRAKQLLQTDVVSQGSDF  
VKIQLVHGLKLVKTKTSFLRGTIDPFYNESFSFKVPQEELNASLVFTVFGHNMKSSND  
FIGRIVIGQYSSGPSETNHWRRLNTHRTAVEQWHSLSRAECDRVSPASLEVT

>sp|Q8N9I0|SYT2\_HUMAN Synaptotagmin-2 OS=Homo sapiens GN=SYT2 PE=1 SV=2

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PPWALIAIAVVAGLLLLTCCFCICKKCCCKKKKNKEKGKGMKNAMNMKDMKGGQDDDDA  
ETGLTEGEGEGEEKEPENLGLKQFSLDYDFQANQLTVGVLQAAELPALDMGGTSDPYVK  
VLLPDKKKKYETKVHRKTLNPAFNETFTFKVPYQELGGKTLVMAIYDFDRFSKHDIIGE  
VKVPMNTVDLGQPIEEWRDLQGGEKEEPEKLGDICTSLRYVPTAGKLTVCILEAKNLKKM  
DVGGLSDPYVKIHLMQNGKRLKKKKTTVKKKTLNPFYNESFSFEIPFEQIQKVQVVTVL  
DYDKLGKNEAIGKIFVGSNATGTELHWSMDLANPRRPIAQWHSCLKPEEEVDALLGKNK

>sp|O00445|SYT5\_HUMAN Synaptotagmin-5 OS=Homo sapiens GN=SYT5 PE=2 SV=2

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KKSQAQAQVHLQEVKGLGQSYIDKVQPEVEELEPAPSGPGQVADKHELGRQLQYSLDYDF  
QSGQLLVGILQAMGLAALDLGGSSDPYRVYLLPDKRRRYETKVHRQTLNPHFGETFAFK  
VPYVELGGRVLVMAVYDFDRFSRNDALGEVRVPMSSVDLGRPVQAWRELQAAPREEQEK  
GDICFSLRYVPTAGKLTIVIVLEAKNLKKMDVGGLSDPYVKVHLLQGGKKVRKKKTTIKKN  
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>sp|O43581|SYT7\_HUMAN Synaptotagmin-7 OS=Homo sapiens GN=SYT7 PE=1 SV=3

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SGRGRSEKKAIKLPAGGKAVNTAPVPGQTPHDESDRREPRSSVSDLVNSLTSEMLMLSP  
GSEEDAHEGCSRENLGRIQFSVGYNFQESTLTVKIMKAQELPAKDFSGTSDPFVKIYLL  
PDKKKHLETKVKKRNLNPHWNETFLEGFPEYKVVQRILYLQVLDYDRFSRNDPIGEVSI  
PLNKVDLTQMQTFWKDLKPCSDGSGSRGELLLSLCYNPSANSIIVNI IKARNLKAMDIGG  
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>sp|P26639|SYTC\_HUMAN Threonine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=TARS PE=1  
SV=3

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KVNNVWDLDRPLEEDCTLELLKFEDEEAQAVYWHSSAHIMGEAMERVYGGCLCYGPPIE  
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NEKVNTPTTTVYRCGPLIDLGRPHVRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGI  
SFPDPKMLKEWEKFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGAYIYNALIEFI  
RSEYRKRGFQEVVTPNIFNSRLWMTSGHWQHYSNMFSFEVEKELFALKPMNCPGHCLMF  
DHRPRSWRELPLRLADFGVLHRNELSGALTGLTRVRRFQQDDAHIFCAMEQIEDEIKGCL  
DFLRTVYSVFGFSFKLNLSTRPEKFLGDIEVWDQAEKQLENSLNEFGEKWELNSGDGAFY  
GPKIDIQIKDAIGRYHQCATIQDLFQLPIRFNLTYVSHDGDKKRPVIVHRAILGSVERM  
IAILTENYGGKWPFWLSPRQVMVPVPGPTCDEYAQKVRQQFHD AKFMADIDLDPGCTLNK  
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EEF

>sp|Q4VX76|SYTL3\_HUMAN Synaptotagmin-like protein 3 OS=Homo sapiens GN=SYTL3 PE=2 SV=3

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FDNANVTGEIEFAIHCFKTHSLEICIKACKNLAYGEEKKKKCNPYVKTYLLPDRSSQGK  
RKTGVQRNTVDPTFQETLKYQVAPAQLVTRQLQVSVVHLGTLARRVFLGEVLIPLATWDF  
EDSTTQSFRWHPLRAKAEKYEDSVPSNGELTVRAKLVLPSPRKLQEAQEGTDQPSLHG  
QLCLVVLGAKNLPVRPDGTLNSFVKGCLTLPDQQKLRLKSPVLRKQACPQWKHSFVFSGV  
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LWTDMTLV LH

>sp|Q8TDW5|SYTL5\_HUMAN Synaptotagmin-like protein 5 OS=Homo sapiens GN=SYTL5 PE=1 SV=1

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PKRKGFLLSKFRSATRGEIITPKTDTGRSYSLDLGQHFRSLKSPPGSDRGSTGSSDLND  
QEPGPRTPKSSRSNGVTPGTQSSPAPSTRVTSTVISREYGFENSMDLAAIEGTSQELTKS  
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AVKSGGTSDSFVKGYLLPDDSKATKHKTLVIKKSVPNPQWNHTFMFSGIHPQDIKNVCLEL  
TIWDKEAFSSNIFLGGVRLNSGSGVSHGKNVDWMDSQGEEQRLWQKMANNPGTPFEGVLM  
LRSSMGKCRL

>sp|Q96A25|T106A\_HUMAN Transmembrane protein 106A OS=Homo sapiens GN=TMEM106A PE=2 SV=1

MGKTFSQLGSWREDENKSILSSKPAIGSKAVNYSSTGSSKSFCSCVPCEGTADASFVTCP  
TCQSGGKIPQELEKQLVALIPYGDQRLKPKHTKLFVFLAVLICLVTSFIVFFLPRSVI  
VQPAGLNSSTVAFDEADIYLNITNITNISNGNYYPIMVTQLTLEVLHLSLVVGQVSNLL  
LHIGPLASEQMFYAVATKIRDENTYKICTWLEIKVHHVLLHIQGTLTCSYLSHSEQLVFQ  
SYEYVDCRGNASVPHQLTPHP

>sp|Q9NUM4|T106B\_HUMAN Transmembrane protein 106B OS=Homo sapiens GN=TMEM106B PE=1 SV=2

MGKSLSHLPLHSSKEDAYDGVTSENMRNGLVNSEVHNEDGRNGDVSQFPYVEFTGRDSVT  
CPTCQGTGRIPRGQENQLVALIPYSDQRLRPRRTKLYVMASVFCVCLLSGLAVFFLPRSVI  
IDVKYIGVKSAYVSYDVQKRTIYLNITNITNITNNYYSVEVENITAQVQFSKTVIGKAR  
LNNITIIGPLDMKQIDYTVPTVIAEEMSYMYDFCTLISIKVHNIVLMMQVTVTTTTYFGHS  
EQISQERYQYVDCGRNTTYQLGQSEYLNVLQPQQ

>sp|B4DZS4|T11X1\_HUMAN T-complex protein 11 X-linked protein 1 OS=Homo sapiens GN=TCP11X1  
PE=2 SV=1

MPKTEETVLQNDPSVAENGAPEPKTPGQSQKSFSCLDDQSPDLIETVNEVSKLSISHEI  
VVNQDFYVEETILPPNSVEGRFAEAMYNFVNLKEQLLSTPPDFTCALELLKDVKETLL  
SLLLWPQNRLRNEIEEALDIDLKQEAHEGALDVPHLSNYILNLMALLCAPVRDEAIQKL  
ETIRDPVQLLRGILRVLGLMKMDVNYTIQSFPPYLQEHSIQYEQAKFQELLDKQPSLLD  
YTTKWLTKAATDITLCPSSPDSPSSSCSMACSLPSGADSADGQNPAPGTGIPVAPVNCP



GLSLASGQKLLW

>sp|AOPK00|T120B\_HUMAN Transmembrane protein 120B OS=Homo sapiens GN=TMEM120B PE=1 SV=1  
MSGQLERCEREWHELEGEFQELQETHRIYKQKLEELAALQTLCSSSISKQKHLKDLKLT  
LQRCKRHASREEAELVQQAANIKERQDVFFDMEAYLPKKNGLYLNVLGNVNVTLASNQ  
AKFAYKDEYEKFKLYLTIIILLGAVACRFVLHYRVTDDEVFNLLVWYYCTLTITRESILIS  
NGSRIKGWVWSHHYVSTFLSGVMLTWPNGPIYQKFRNQFLAFSIFQSCVQFLQYYYQRGC  
LYRLRALGERNHLDLTVEGFQSWMWRLTFLLPFLFCGHFWQLYNAVTLFELSSHEECRE  
WQVFLAFTFLILFLGNFLTTLKVVHAKLQKNRGKTKQP

>sp|Q14C87|T132D\_HUMAN Transmembrane protein 132D OS=Homo sapiens GN=TMEM132D PE=1 SV=1  
MCPSEMGTLWHHWSPVLISLAALFSKVTEGRGILESIRQFSLLPTYLPVTYHINNADVSF  
FLKEANQDIMRNSSLQSRVESFLIYKSRRLPVLNASYGPFSEIEQVVPQDLMLPSNPFGFT  
NKFSLNWKLAHILRDKVYLSRPKVQVLFHIMGRDWDDRSAGEKLPCLRVFAFRETRVVR  
GSCRLQGDLGLCVAEELLESSWFSPTTVAGRRKSVDQPEGTPVELYTVHPGGERGDCV  
REDARRSNGIRTGHSIDESGPPLQIRIGSIFLYQTHRKPSLRELRLDNSVAIHYPKTVR  
KGDVLTFPVVISRNSTEDRFTLRKAVKKGVNIIGVRASSPSIWDVKERTDYGKYAPAVI  
VCQKKAAGSENSADGASYEVMQIDVEVEEPGDLPATQLVTWQVEYPGEITSDLGVSKIYV  
SPKDLIGVVPLAMEAEILNTAILTGKTVAVPVKVVSVEDDGTVTELLESVECRSDEDVI  
KVSDRCDYVFNKGEMKGVNVVNFYQHLSSPLEMTVWPRLPLQIEVSDTELNQIKG  
WRVPIVSSRRPAGDSEEEEDERRGRGCTLQYQHAMVRVLTQFVAEAAGPGGHLAHLGGS  
DWQVDITELINDFMQVEEPRIAKLQGGQILMGQELGMTTIQILSPLSDTILAEKTIIVLD  
EKVTITDLGVQLVTGLSLSQLSPGSNRAIFATAVAQELLQRPKQEAASCVWFSDGSV  
TPLDIYDGKDFSLMATSLDEKVVSIIHQDPKFKWPIIAAETEGQGLVKVEMVISESCQS  
KRKSVLAVGTANIKVKFGQNDANPNTSDSRHTGAGVHMENNVSDRRPKPSQEWGSQEGQ  
YYGSSSMGLMEGRGTTTDRSILQKKKGQESLDDNSHLQTIPSDLTSFPAQVDLPRNGE  
MDGNDLMQASKGLSDLEIGMYALLGVFCLAILVFLINCVTFALKYRHKQVPFEEQEGMSH  
SHDWVGLSNRTELLENHINFASSQDEQITAIDRGMDFEESKYLLSTNSQKSINGQLFKPL  
GPIIIDGKDQKSEPPTSPTSKRKRKFTTFTAVSSDDEYPTRNSIVMSSEDDIKWVCQDL  
DPGDCKELHNYMERLHENV

>sp|Q8WVE7|T170A\_HUMAN Transmembrane protein 170A OS=Homo sapiens GN=TMEM170A PE=1 SV=1  
MEREGSGSGGSAGLLQQILSLKVPRVNGTLCPNSTSLCSFPEMWYGVFLWALVSSLF  
FHVPAGLLALFTLRHHKYGRFMSVSILLMGIVGPITAGILTSAAIAGVYRAAGKEMIPFE  
ALTLTGTGQTFCVLVVSFLRILATL

>sp|A6NKL6|T200C\_HUMAN Transmembrane protein 200C OS=Homo sapiens GN=TMEM200C PE=2 SV=2  
MIATGGLLRISARKQDPLRPPSQIPKRRKAKKRRKNDVVVVKGKCLKCSISGLIALCGI  
LVLLVGIAMAVVGYWPKATGTNREGGKQLPPAGSSHRVPTTANSSSSGSKNRSRSHPRAP  
GGVNSSSAGAPRSTPPARAASPSSSSTSVGFFFRIFSGYLHSDKLKVFGLIMGIGIFLF  
ICANAVLHENRDKKTKIINLRDLYSTVIDVHSLRAKDLAAAAAAAAAAAASSSSAPAAA  
PPGAIPNLNGLSYVQSRGLELPGGCGGSGDAFGAAAMLAAGSWPPHPAAPSGGRPRGAA  
SPPDLASSPRCPREPPSLAEAVYSVYRERSGVAGSRRAAAATAAAAASSCSPAPCSPPE  
SWGRQSTASSFVDSSLSAFALLPLQGGDRGGAEGASCSWQRPPGERGSQEIPRGELDL  
SMTNLRGAEGSMRGARREPEEPEGAVAARAARGQGGRLPRTGRYAALRRRSTSGLPDYRA  
PPSPEPPSPSGSADPDSSPLAKAASPSPLRLEGSPPTRRDSGSSQSDDPSSSNKGYTPL  
REAGTSTESVLDVAGQTRDSAVAAPVLGAEQSSPEGASQEPPTAEQPPVQRQFTNKEK  
LIMISRSHAIGVEEELESTGI

>sp|Q9NYV7|T2R16\_HUMAN Taste receptor type 2 member 16 OS=Homo sapiens GN=TAS2R16 PE=1 SV=1

MIPIQLTVFFMIIYVLESLTIIVQSSLIVAVLGREWLQVRRRLMPVDMILISLGISRFCLQ  
WASMLNFCSYFNLNVLCNLITWEEFNILTFWLSLLTVFYCIKVSSFTHHIFLWLRW  
RILRLFPWILLGSLMITCVTIIPSAIGNYIQIQLLTMEHLPRNSTVTDKLENFHQYQFQA  
HTVALVIPFILFLASTIFLMASLTKQIQHHSTGHCNPSMKARFTALRSLAVLFIVFTSYF  
LTILITIIGTLFDKRCWLWVWEAFVYAFILMHSTSLMLSSPTLKRILKGKC

>sp|P59539|T2R45\_HUMAN Taste receptor type 2 member 45 OS=Homo sapiens GN=TAS2R45 PE=2 SV=1

MITFLPIIFSILVVVTFVIGNFANGFIALVNSTEWVKRQKISFADQIVTALAVSRVGLLW  
VLLLNWYSTVLNPAFCSVELRTTAYNIWAVTGHFSNWPATSLSIFYLLKIANFSNLIFLR  
LKRRVKSIVILVLLGPLLFLACHLFVVNMNQIIVWTKEYEGNMTWKIKLRRAMYLSDTT VT  
MLANLVPFTVTLISFLLLVCSLCKHLKMKQLHGKGSQDPSTKVHIKVLQTVISFFLLRAI  
YFVSVIISVVSFKNLENKPVFMFCQAIGFSCSSAHPFILIWGNKKLKQTYLSVLWQMRY

>sp|P59540|T2R46\_HUMAN Taste receptor type 2 member 46 OS=Homo sapiens GN=TAS2R46 PE=2 SV=2

MITFLPIIFSILIVVTFVIGNFANGFIALVNSIEWFKRQKISFADQILTALAVSRVGLLW  
VLVLNWYATELNPAFNSIEVRITAYNVWAVINHFSNWLATSLSIFYLLKIANFSNLIFLH  
LKRRVKSIVVLVILLGPLLFLVCHLFVINMNQIIWTKEYEGNMTWKIKLRSAMYLSNTT VT  
ILANLVPFTLTLISFLLLICSLCKHLKMKQLHGKGSQDPSMKVHIKALQTVTSFLLLCAI  
YFLSIIMSVSFESLENKPVFMFCEAIAFSYPSTHPFILIWGNKKLKQTFLSVLWHVRYW  
VKGEKPSSS

>sp|Q96DZ7|T4S19\_HUMAN Transmembrane 4 L6 family member 19 OS=Homo sapiens GN=TM4SF19 PE=2 SV=2

MVSSPCTQASSRTCSRILGLSLGTAALFAAGANVALLLPNWDVTYLLRGLLGRHAMLGTG  
LWGGGLMVLTAAILISLMGWRYGCFSKSGLCRSVLTALLSGGLALLGALICFVTSGVALK  
DGPFCMFDVSSFNQTAWKYGYPFKDLHSRNYLYDRSLWNSVCLEPSAAVVWHVSLFSAL  
LCISLLQLLL VVVHVINSLLGLFCSLCEK

>sp|Q96RJ0|TAAR1\_HUMAN Trace amine-associated receptor 1 OS=Homo sapiens GN=TAAR1 PE=2 SV=1

MMPFCHNIINISCVKNWSNDVRASLYSLMVLIIILTTLVGNLIVIVSISHFKQLHTPTNW  
LIHSMATVDFLGCLVMPYSMVRSAEHCWYFGEVFCKIHTSTDIMLSSASIFHLSFISID  
RYYAVCDPLRYKAKMNILVICVMIFISWSVPAVFAFGMIFLELNFKGAEIYYKHVHCRG  
GCSVFFSKISGVLTFMTSFYIPGSIMLCVYYRIYLIAKEQARLISDANQKLQIGLEMKNG  
ISQSKERKAVKTLGIVMGVFLICWCPFFICTVMDPFLHYIIPPTLNDVLIWFGYLNSTFN  
PMVYAFFYPWFRKALKMMLFGKIFQKDSSRCKLFLELSS

>sp|O14804|TAAR5\_HUMAN Trace amine-associated receptor 5 OS=Homo sapiens GN=TAAR5 PE=2 SV=2

MRAVFIQGAEHPAAFCYQVNGSCPRTVHTLGIQLVIYLACAAGMLIIVLGNVFVAFVS  
YFKALHTPTNFLLLSLALADMFLGLLVLPSTIRSVESCWFFGDFLCRLHTYLDTLFCLT  
SIFHLCFISIDRHCAICDPLLYPSKFTVRVALRYILAGWGPAAYSLSFLYTDVVETRSL  
QWLEEMPCVGSCQLLLNKFWGWLNFPLFFVPCLIMISLYVKIFVVATRQAQQITTLSKSL  
AGAAKHERKAAKTLGIAVGIYLLCWLPTIDTMVDSLLHFITPPLVDFDIWFAYFNSAC  
NPIIYVFSYQWFRKALKLTLSQKVFSPQTRTVDLYQE

>sp|Q9HBM6|TAF9B\_HUMAN Transcription initiation factor TFIID subunit 9B OS=Homo sapiens  
GN=TAF9B PE=1 SV=1

MESGKMAPPKNAPRDALVMAQILKDMGITEYEPRVINQMLEFAFRYVTTILDDAKIYSSH  
AKKPNVDADDVRLAIQCRADQSFTSPPPRDFLLDIARQKNQTPLPLIKPYAGPRLPPDRY  
CLTAPNYRLKSLIKKGPNQGRLVPRLSVGAVSSKPTTPTIATPQTVSVPNKVATPMSVTS  
QRFTVQIPPSQSTPVKVPVATTAVQNVLINPSMIGPKNILITTNMVSSQNTANEANPLKR  
KHEDDDNDIM

>sp|Q96A49|SYAP1\_HUMAN Synapse-associated protein 1 OS=Homo sapiens GN=SYAP1 PE=1 SV=1

MFRGLSSWLGLQQPVAGGGQPNGDAPPEQPSETVAESAEEELQQAGDQELLHQAQDFGNY  
LNFASAATKKITESVAETAQTIKKSVEEGKIDGIIDKTIIGDFQKEQKKFVEEQHTKKS  
EAAVPPWVDNDEETIQQQILALSADKRNFLRDPPAGVQFNDFDQMPVALVMLQEDEL  
LSKMRFALVPKLVEEVFWRNIFYRVSLIKQSAQLTALAAQQAAGKEEKSNGREQDLPL  
AEAVRPKTPPVVKSQKLTQEDEEEISTSPGVSEFVSDAFDACNLNQEDLRKEMEQLVLD  
KKQEETAVLEEDSADWEKELQQELQYEVVTESEKRDENWDKEIEKMLQEEN

>sp|Q8IZU3|SYCP3\_HUMAN Synaptonemal complex protein 3 OS=Homo sapiens GN=SYCP3 PE=1 SV=1

MVSSGKKYSRKSGKPSVEDQFTRAYDFETEDKKDLGSEEDVIEGKTAVIEKRRKKRSSA  
GVVEDMGGEVQNMLEGVGDINKALLAKRKRLEMYTKASLKTSNQKIEHVWKTQQDQRQK  
LNQEYSQQFLTFLFQQWDLDMQKAEQEELILNMFRQQQKILQQSRIVQSRLKTIKQLYE  
QFIKSMEELEKNHDNLLTGAQNEFKKEMAMLQKKIMMETQQQEIASVRKSLQSMLF

>sp|O95363|SYFM\_HUMAN Phenylalanine--tRNA ligase, mitochondrial OS=Homo sapiens GN=FARS2  
PE=1 SV=1

MVGSALRRGAHAYVYLVSKASHISRGHQHQAWSRPPAAECATQRAPGSVVELLGKSYPQ  
DDHSNLTRKVLTRVGRNLHNQQHHPLWL IKERVKEHFYKQYVGRFGTPLFSVYDNLSPVV  
TTWQNFDSLLIPADHPSRKKGDNYLNRTHMLRAHTSAHQWDLHAGLDAFLVVGDVYRR  
DQIDSQHYPHFHGLEAVRLFSKHELFAGIKDGESLQLFEQSSRSAHKQETHMEAVKLVE  
FDLKQTLTRLMAHLFGDELEIRWVDCYFPFTHPSFEMEINFHGEWLEVLGCGVMEQQLVN  
SAGAQDRIGWAFGLGLERLAMILYDIPDIRLFWCEDERFLKQFCVSNINQVKFQPLSKY  
PAVINDISFWLPSENYAENDFYDLVRTIGGDLVEKVDLIDKFVHPKTHKTSHCYRITYRH  
MERTLSQREVRHIHQALQEAAVQLLGVEGRF

>sp|P41250|SYG\_HUMAN Glycine--tRNA ligase OS=Homo sapiens GN=GARS PE=1 SV=3

MPSPRPVLLRGARAALLLLPPRLLARPSLLLRSLAASCPPISLPAAASRSSMDGAGA  
EEVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVD  
RAKMEDTLKRRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTRWQHFIQEEQILEIDC  
TMLTPEPVLTSGHVDKFADFVMVDVKNGECFRADHLLKAHLQKLMSDKKCSVEKKSEME  
SVLAQLDNYGQQLADLFDVNYNVKSPITGNDLSPPVSFNLMFKTFIGPGGNMPGYLRPET  
AQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHFVDPSEK  
DHPKFQNVADLHLYLysAKAQSAGSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKV  
GISPDKLRFRQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPL  
VAEKPLKEPKTVNVVQFEPKSGAIGKAYKKDAKLMEYLAICDECYITEMEMLLNEKGEF  
TIETEGKTFQLTKDMINVKRFQKTLVVEEVPNVIEPSFGLGRIMYTVFEHTFHVREGDE  
QRTFFSFPAVVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDSSGSIGRRYAR  
TDEIGVAFGVTIDFDTVNKTPTHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVE  
ARYPLFEGQETGKKETIEE

>sp|Q8N205|SYNE4\_HUMAN Nesprin-4 OS=Homo sapiens GN=SYNE4 PE=1 SV=2

MALSLPLGPRLGSEPLNHPPGAPREADIVGCTVCPASGEESTSPEQAQTLGQDSLGPPEH  
FQGGPRGNEPAAHPPRWSTPSSYEDPAGGKHCEHPISGLEVLEAEQNSLHLCLLGLGRRL  
QDLEQGLGHWALAQSGMVQLQALQVDLRGAAERVEALLAFGEGLAQRSEPRAWAALEQIL  
RALGAYRDSIFRRLWQLQAQLVSYSLVFEEANTLDQDLEVEGSDSWPGPGVWGPWAPSS  
LPTSTELEWDPAGDIGGLGPLGQKTARTLGVPCELCGQRGPQGRGQGLEEADTSHSRQDM  
LESGLGHQKRLARHQRHSLLRKPQDKKRQASPHLQDVRLEGNPGAPDPASRQPLTFLLIL  
FLLFLLLVGAMFLLPASGGPCCSHARIPRTPYLVSYNGLPPV

>sp|O15056|SYNJ2\_HUMAN Synaptojanin-2 OS=Homo sapiens GN=SYNJ2 PE=1 SV=3

MALSKGLRLLGRLGAEGDCSVLLEARGRDDCLLFEAGTVATLAPEEKEVIKQYGKLTDA  
YGCLGELRLKSGGTSLSFLVLVTGCTSVGRIPDAEIKITATDFYPLQEEAKEERLIAL  
KKILSSGVFYFSWPDNGSRFDLTVRTQKQDDSSSEWGNSSFVNQLLHVPLRQHQVSCCDW  
LLKIIICGVVTIRTIVYASHKQAKACLVSRVSCERTGTRFHTRGVNDDGHVSNFVETEQMIY  
MDDGVSSSFVQIRGSVPLFWEQPLQVGSHHLLRLHRGLEANAPAFDRHMLLKEQYGGQVV  
VNLLGSRGGEEVLNRAFKLLWASCHAGDTPMINFDFHQFAKGGKLEKLETLLRPQLKLH  
WEDFDVFTKGENVSPRFQKGLTRMNCCLDCLDRTNTVQSFIALEVLHLQLKTLGLSSKPIV  
DRFVESFKAMWSLNGHSLSKVFTGSRALEGKAKVGKLDGARSMSRTIQSNFFDGVKQEA  
IKLLLVDGVYGEVADKGGMLLDSTALLVTPRILKAMTERQSEFTNFKRIRIAMGTWNVN  
GGKQFRSNVLRTAELTDWLLDSPQLSGATDSQDDSSPADIFAVGFEEMVELSAGNIVNAS  
TTNKKMWGEQLQKAISRSHRYILLTSAQLVGCLYIFVRPYHVPFIRDVAIDTVKTGMGG  
KAGNKGAVGIRFQFHSTSFICSHLTAGQSQVKERNEDYKEITQKLCFPMGRNVFSDY  
VFWCGDFNYRIDLTVEEVFYFVKRQDWKKLLEFDQLQLKSSGKIFKDFHEGAINFPTY  
KYDVGSAAYDTSKCRTPAWTDRVLWRRKKHPFDKTAGELNLLDSDLVDVTKVRHTWSPG  
ALQYYGRAELQASDHRPVLAIIVEVEVQEVVGARERVFQEVSSFQGPLDATVVVNLQSPT  
LEEKNEFPEDLRTELMQTLGSYGTIVLVRINQGQMLVTFADSHSALSVLDVDMKVKGRA  
VKIRPKTKDWLKGLEEEIIRKRDSEMAPVSPTANSCLLEENFDFTSLDYESEGDILEDDED  
YLVDEFNQPGVSDSELGGDDLSDVPGPTALAPPSKSPALTKKKQHPTYKDDADLVELKRE  
LEAVGEFRHRSPSRSLSVNRP RPQPQP RPPTGLMVKKSASDASISSGTHGQYSILQ  
TARLLPGAPQPPKARTGISKPYNVKQIKTTNAQEAEEAIRCLLEARGGASEEALSAVAP  
RDLEASSEPEPTPGAAPKPTQAPPLPRRPPRPVPAIKKPTLRRTGKPLSPEEQFEQQT  
VHFTIGPPETSVEAPPVVTAPRVPPVPKPRTFQPGKAAERPSSHRKPASDEAPPGAGASVP  
PPLEAPPLVPKVPRRRKSAPAAFHLQVLQSNSQLLQGLTYNSSDSPSGHPPAAGTVFPQ  
GDFLSTSSATSPSDGTAMKPEAAPLLGDYQDPFWNLLHHPKLLNNTWLSKSSDPLDSG  
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>sp|Q8N3V7|SYNPO\_HUMAN Synaptopodin OS=Homo sapiens GN=SYNPO PE=1 SV=2

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PSPGPGPRVAQKPALGRSTSLTEKDLKEAKARSQQIAAQLTPPSSNSRGVQLFNRRRQR  
VNEFTLESHGQRGQKPSQESLRLPSSLPGHAPGLSLSSTSLPEPGPPRHPSQSPDRGV  
PGHSMEGYSEEASLLRHLEKVASEEEEVPLVVYLKENAALLTANGLHLSQNREAAQSSPA  
PPPAEVHSPAADVQNQLASPSATLTTPTSNSSHNPPATDVNQNPATVVPQSLPLSSIQQ  
NSSEAQLPSNGTGPAASKPSTLCADGQPQAPAEVRCSTLLIDKVSTPATTTSTFSREATL  
IPSSRPPASDFMSSSLIDIQPNLTLVVSADQEMSGRAAATTPTKVYSEVHFTLAKPPSVV  
NRTARPFGIQAPGGTSQMERSPMLERRHFGEKAPAPQPPSLPDRSPRPQRHMSRSPMVE  
RRMMGQRSPASERRPLGNFTAPPTYTETLSTAPLASWVRSPPSYSVLYPSSDPKSSHLKG

QAVPASKTGILEESMARRGSRKSMFTFVEKPKVTPNPDLDDLVTADKRRQRDQGEVGV  
EEEPFALGAEASNFQQEPAPRDRASPAAAEEVPEWASCLKSPRIQAKPKPKPNQNLSEA  
SGKGAELYARRQSRMEKYVIESSHTPELARCPSTMSLPSSWKYPTNAPGAFRVASRSP  
ARTPPASLYHGYLPENGVLREPTKQPPYQLRPSLFLVLSPIKEPAKVSPPRAASPAKPSSL  
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>sp|Q8TBG9|SYNPR\_HUMAN Synaptoporin OS=Homo sapiens GN=SYNPR PE=1 SV=1

MCMVIFAPLFAIFAFATCGGYSGGLRLSVDCVNKTESNLSIDIAFAYPFRHQVTFEVPT  
CEGKERQKLALIGDSSSSAEFFVTAVFAFLYSLAATVVYIFFQNKYRENNRGPLIDFIV  
TVVFSFLWLVGSSAWAKGLSDVKVATDPKEVLLMSACKQPSNKCMAIHSPVMSSLNTSV  
VFGFLNFIWAGNIWVFKETGWHSSGQRYLSDPMEKHSSSYNQGGYNQDSYSSSSGYSQ  
QASLGPTSDEFGQQPTGPTSFTNQI

>sp|Q9UMZ2|SYNRG\_HUMAN Synergina gamma OS=Homo sapiens GN=SYNRG PE=1 SV=2

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QGIMGNYSSQMSQGPIMAGQIPMGMPAAGMPYLGQAPFLGMRPPGPQYTPDMQKQFA  
EEQQKRFEQQQKLLEERKRRQFEEQKQKLRLSSVKPKTGEKSRDDALEAIKGNLDGFS  
RDAKMHTPASHPKPGPSLEEKFLVSCDISTSGQEQIKLNTSEVGHKALGPGSSKKYPS  
LMASNGVAVDGCVSGTTTAAEAENTSDQNLSEESGVGVFSPQDPAQPRMPPWIYNESLVP  
DAYKKILETTMTPTGIDTAKLYPILMSSGLPRETLGQIWALANRTTPGKLTKEELYTVLA  
MIAVTQRGVPAMSPDALNQFPAAPIPTLSGFSMTLPTPVSQPTVIPSGPAGSMPLSLGQP  
VMGINLVGPVGAAAQASSGFIPTYPANQVVKPEEDDFQDFQDASKSGSLDDSFSDQFEL  
PASSKTSNSQHGSAPSLMLPGTKALPSMDKYAVFKGIAADKSSENTVPPGDPGDKYS  
AFRELEQTAENKPLGESFAEFRSAGTDDGFTDFKTADSVSPLEPPTKDKTFPPSFGTI  
QQKQQTQVKNPLNLADLDMFSSVNCSSSEKPLSFSVAVFSTSKSVSTPQSTGSAATMTALAA  
TKTSSLADDFGEFSLFGEYSGLAPVGEQDDFADFMAFSNNSISSEKQPDCKYDALKEEAS  
PVPLTSNVGSTVKGQNSTAASTKYDVFRQLSLESGGLVEDLKDNTPSGKSDDDFADFH  
SSKFSSINSDKSLGEKAVAFRHTKEDSASVKSLLPSIGGSSVGKEDSEDALSVQFDMKL  
ADVGGDLKHVMSDSSLDLPTVSGQHPPAADIEDLKAAFGSYSSNFAVSTLTSYDWSRD  
DATQGRKLSPFVLSAGSGSPSATSILQKKETSFGSSSENITMTSLSKVTTFVSEDALPETT  
FPALASFKDTIPQTSEQKEYENRDYKDFTKQDLPTAERSQEATCPSPASSGASQETPNEC  
SDDFGFEQSEKPKISKDFLVATSQSKMKSSEEMIKSELATFDLSVQSGSHKRSLSLGDKE  
ISRSSPSPALEQPFDRSNTLNEKPALPVIRDYKDLTGEVEENERYAYEWQRCLGSALN  
VIKKANDTLNGISSSVCTEVIQSAQGMAYLLGVVEVYRVTKRVELGIKATAVCSEKLQQ  
LLKDIDKVWNNLIGFMSLATLTPDENSLDFSSCMLRPGIKNAQELACGVCLLNVDSSRSK  
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>sp|Q5T7P8|SYT6\_HUMAN Synaptotagmin-6 OS=Homo sapiens GN=SYT6 PE=1 SV=3

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LAVVIVCGVALVAVFLFLFWKLCWMPWRNKEASSPSANPPLEALQSPSFRGNMADKLK  
DPSTLGFLAAVKISHTSPDIPAEVQMSVKEHIMRHTLRQRTTEPASSTRHTSFKRHLR  
RQMHVSSVDYGNELPPAAEQPSTIGRIKPELYKQKSVGDGAKSEATKSCGKINFSRLYD  
YETETLIVRILKAFDLPAKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFDENFHF  
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DLGEIMFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLLCDGRRLKKKTTIK  
KNTLNPVYNEAIIFDIPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGITAEGLRDHWN

EMLAYPRKPIAHWHSLEVEKKSFKEGNPRL

>sp|Q86SS6|SYT9\_HUMAN Synaptotagmin-9 OS=Homo sapiens GN=SYT9 PE=2 SV=1

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ACGLALFGVSLFVSWKLCWVPWRERGLPSGSKDNNQEPLNYMDTETNEQENSEDFLDPPT  
PCPDSSMKISHTSPDIPLSTQTGIQENCAHGVRVQRQVTEPTSSARHNSIRRQLNLSNPD  
FNIQQQLKQEQLTGIGRIKPELYKQRSLDNDGRRSNSKACGKLNFIKYDCDLEQLIVK  
IHKAVNLPKDFSGTSDPYVKIYLLPDRKTKHQTKVHRKTLNPVFDEVFLFPVPYNDLEA  
RKLHFSVYDFDRFSRHDLIGQVVVDHFLDLADFPRECILWKDIEYVTNDNVDLGELMFSL  
CYLPTAGRLTITIIKARNLKAMDITGASDPYVKVSLMCDGRRLKKRKTSTKRNTLNPVYN  
EAIVFDVPPENIDQIHLIAVMDYDRVGHNEIIGVCQVGNEAERLGRDHWSEMLSYPKRP  
IAHWHSLEVKR

>sp|Q16143|SYUB\_HUMAN Beta-synuclein OS=Homo sapiens GN=SNCB PE=1 SV=1

MDVFMKGLSMAKEGVVAAAETKQGVTEAAEKTKEGVLYVGSKTREGVVQGVASVAEKT  
EQASHLGGAVFSGAGNIAAATGLVKREEFPTDLKPEEVAQEAAEEPLIEPLMEPEGESYE  
DPPQEEYQEYEPEA

>sp|P23381|SYWC\_HUMAN Tryptophan--tRNA ligase, cytoplasmic OS=Homo sapiens GN=WARS PE=1  
SV=2

MPNSEPASLLELFNSIATQGELVRSLKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKA  
DCPPGNPAPTSNHGPDTEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRI  
ERATGQRPHHFLRRGIFFSHRDMNQVLDAYENKKPFYLYTGRGPSSEAMHVGHLPFIPT  
KWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYSAYENAKDIIACGFDINKTFIFSOLDY  
MGMSGFGYKNVVKIQKHVTFNQVKGIFGFTSDCIGKISFPATQAAPSFNSFPQIFRDR  
TDIQCCLIPCAIDQDPYFRMTRDVAPRIGYPKALLHSTFFPALQGAQTKMSASDPNSSIF  
LTDTAKQIKTKVNKHAFSGGRDTIEEHRQFGGNCDDVDVSFMYLTFFLEDDDKLEQIRKDY  
TSGAMLTGELKKALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSFDFQ

>sp|Q5T5J6|SWT1\_HUMAN Transcriptional protein SWT1 OS=Homo sapiens GN=SWT1 PE=2 SV=1

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KKDIHKCVDFKPKDIKLTNAGSKLDHGKSLSPKIASDVKPKAEGQASENKWSHLLVQR  
EKMKELKKGRNSKFRDNSEKCVLEKWKRNQFSQDYNENKI I KEPLGSRRQKISFKIPIKS  
RDTLQKLVEENVFNIDSNSKTKQEEREYLESSQVSLNVTRQKTEHLLSDFTYKRTVHEW  
KRKHHDYHQESNDSHSRENLTQSFAPCCSVSSESIQDADQEMQIVEELHAARVGKSVDL  
PGELMSMEIDLEDDVHSSANNTSDRKLLIVIDTNILMNLKFKVRILKTTEVPGFDKLVL  
IIPVVMQELDRMKEGKLLKRAQHKAIPAVHFINDSLKNQDRKLWGQSIQLASQKHGYS  
DENNDDRVLKCCQLHQELFPCSFVILCTDDRNLRNKGLISGVKLSKEELSAELLHLSLN  
TDVCHQPCIPKQQLKAETTPLESYKEESTNSGLSILLESIVSDLEKSLGTGLSSILETE  
MKIAFGNLWMEILYLKPPWTLLHLLQCFKKHLAVFGLVMEKNLLLTIESLYKNLRKANK  
AVDFTTVKFLQDSRSLHAFSTRSNYDGILPQTFAQVNNLLQTFAEVKTKLKPNSSENT  
VTKKQEGTSLKNSHNQEITVFSSSHLPQPSRHQEIWSILESVMWITIYQNSTDVFQRLGSN  
SALTTSNIASFEEAFICLQKLMAAVRDILEGIQRILAPNSNYQDVETLYNFLIKYEVNKN  
VKFTAQEIYDCVSQTEYREKLTIGCRQLVEMEYTMQQCNASVYMEAKNRGWCEDMLNYRI

>sp|P57105|SYJ2B\_HUMAN Synaptojanin-2-binding protein OS=Homo sapiens GN=SYNJ2BP PE=1  
SV=2

MNGRVDYLVTEEEINLTRGPSGLGFNIVGGTDQQYVSNDSGIYVSRIKENGAAALDGRLLQ

EGDKILSVNGQDLKNLLHQDAVDLFRNAGYAVSLRVQHRLQVQNGPIGHRGEGDPSGIP I  
FMVLVPVFALTMVAAWAFMRYRQQL

>sp|Q15046|SYK\_HUMAN Lysine--tRNA ligase OS=Homo sapiens GN=KARS PE=1 SV=3

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTT  
DNGVGPEEESVDPNQYYKIRSQAIIHLKVNGEDPYPHKFHVDISLTDFIQKYSHLQPGDH  
LTDITLKVAGRIHAKRASGGKLIFYDLRGEGVKLQVMANSRNYKSEEEFIHINNKLRRGD  
IIGVQGNPGTKKGELSIIPEYITLLSPCLHMLPHLHFGLKDKETRYRQRYLDLILNDFV  
RQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIIPGGAVAKPFITYHNELDMNLYMRIAP  
ELYHKMLVVGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMOVSG  
MVKHITGSYKVTYHPDGPEGQAYDVDFTPPFRINMVEELEKALGMKLPETNLFETEETR  
KILDDICVAKAVECPPRRTTARLLDKLVGEFLEVTCINPTFICDHPQIMSPLAKWHRSKE  
GLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYG  
LPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDLTLESTTVGTSV

>sp|Q8NB59|SYT14\_HUMAN Synaptotagmin-14 OS=Homo sapiens GN=SYT14 PE=1 SV=2

MAIEGGERTCGVHELICIRKVSPEAVGFLSAVGVFIIIMLLLFLYINKKFCFENVGGFPD  
LGSEYSTRKNSQDKIYNSYMDKDEHGSSSESEDEALGKYHEALSRTHNSRLPLADSRQRN  
YAWETRQKYSPLSAEYDGYSSSEASIDEGNCIQMRRTPLDELQPPYQDDSGSPHLSCT  
PSEIGDSKCEFSHCNSPRCSYNKCPSEGSTGHEIESFHNKGYEEDVPSDSTAVLSPEDM  
SAQGSSSQLPKPFDPEPEAKYGTLDVTFDYDSQEQLLVTVTAVTDIPTYNRTGGNSWQV  
HLVLLPIKKQRAKTSIQRGCPVFVTETFKFNHVESEMIGNYAVRFRLYGVHRMKKEKIVG  
EKIFYLTKLNLQGKMSLPVILEPSYNHSGCDSQMSVSEMSCSESTSSCQSLHGSVPEIL  
IGLLYNATTGRLSAEVIKGSHFKNLAANRPPNTYVKLTLLNSMGQEMSKCKTSIRRGQPN  
PVYKETFVFQVALFQLSDVTLILSVYNKRSMKRKEMIGWISLGLNSSGEEELNHWTEMKE  
SKGQQVCRWHALLES

>sp|Q9BQG1|SYT3\_HUMAN Synaptotagmin-3 OS=Homo sapiens GN=SYT3 PE=2 SV=1

MSGDYEDDLRRALILVSDLCARVRDADTNDRCQEFNDRIRGYPRGPDADISVSLLSVIV  
TFCGIVLLGVSLFVSWKLCWVPWRDKGSAVGGGPLRKDLGPGVGLAGLVGGGGHHLAAG  
LGGHPLLGPPHHHAHAHPPFAELLEPGSLGGSDTPEPSYLDMDSYPEAAAAAAVAAGVK  
PSQTSPELPSEGGAGSGLLLLPPSGGGLPSAQSHQVTS LAPTTRYPALPRPLTQQTLS  
QPDPSSSEERPPALPLPLPGGEEKAKLIGQIKPELYQGTGPGRRSGGGPGSGEAGTGAPC  
GRISFALRYLYGSDQLVVRILQALDLPKDSNGFSDPYVKIYLLPDRKKKFQTKVHRKTL  
NPVFNETFQFSVPLAELAQRKLHFSVYDFDRFSRDLIGQVVDNLLELAEQPPDRPLWR  
DIVEGGSEKADLGELNFSCLYLPTAGRLVTI I KASNLKAMDLTGFSDPYVKASLISEGR  
RLKKRKTSIKNTLNPTYNEALVFDVAPESVENVGLSIAVVDYDCIGHNEVIGVCRVGPD  
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>sp|A2RTX5|SYTC2\_HUMAN Probable threonine--tRNA ligase 2, cytoplasmic OS=Homo sapiens  
GN=TARSL2 PE=1 SV=1

MAAEALAAEAVASRLERQEEDIRLWSEVERLRDEQLNAPYSCQAEGPCLTREVAQLRAE  
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DSEVKHQPIFIKERLKLFEILKKDHQLLLAIYGKKGDTSNIIITVRVADGQTVQGEVWKT  
PYQVAAEISQELAESTVIAKVNGELWDLDRPLEGDSSELELLTFDNEEAQAVYWHSSAHIL  
GEAMELYYGGHLCYGPPIENGFIYDMFIEDRAVSSTELSALENICKAI I KEKQPFERLEV  
SKEILLEMFKYNFKCRILNEKVNTATTTVYRCGPLIDLCKGPHVRHTGKIKTIKIFKNS  
STYWEGNPEMETLQRIYGISFPDNKMMRDWEKFQEEAKNRDHRKIGKEQELFFFHDLSPG

SCFFLPRGAFIYNTLTDFIREEVHKRDFTEVLSPNMYNSKLWEASGHWQHYSENMTFEI  
EKDTFALKPMNCPGHCLMFahrPRSWREMPiRfADFGVLHrNELSGTlSGlTRVRRFQQD  
DAHIFCTVEQIEEEIKGCLQFLQSVYSTFGFSFQLNLSTRPENFLGEIEMWNEAEKQLQN  
SLMDFGEPWKMNPdGAFYgPKIDIKDAIGRYHQCAtIQlDFQLPIrFNlTYVSKDGD  
DKKRPIIhRAILGSVERMIaILSENYGGKWpFWLSPRQVMViPVGPTCEKYALQVSSEF  
FEEGFMADVDLDHSCTLNKKIRNAQLAQYNfILVVGEKEKIDNAVNVrTRDNKIhGEILV  
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>sp|Q5ST30|SYVM\_HUMAN Valine--tRNA ligase, mitochondrial OS=Homo sapiens GN=VARs2 PE=1  
SV=2

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EIAGESKSPAESIKAWRPKELVlyEIPTKPGEkKDVSGPLPPAYSPRYVEAAWYPWWVRE  
GFFKPEYQARLPQATGETFSMCIPPPNVTGSLHIGHALTVAIQDALVRWHRMRGDQVLWV  
PGSDHAGIATQAVVEKQLWKERGVRRHELsREAFLREVWQWKEAKGGEICEQLRALGASL  
DWDRECFTMDVGSSVAVTEAFVRLYKAGLLYRNHQLVNWSCALRSaISDIEVENRPLPGH  
TQLRLPGCPTPVsFGLLSFAFPVDGEPDAEVVVGtTRPETLPgDVAVAVHPDDSRyTHL  
HGRQLRHPLMGQPLPlITDYAVQPHVGTGAVKvTPAHSPADAEMGARHGLSPLNVIAEDG  
TMTSLCGDWLQGLHRFVAREKIMSVLSEWGLFRGLQNHMPVLPICSRSGDVIEYLLKNQW  
FVRCQEMGARAaKAVESGALELSPSFHQKNWQHWFShIGDWCVSRQLWWGHQIPAYLVVE  
DHAQGEEDCWVVRSEAEAREVAAELTGRPGAELTLERDPDVLDTWFSSALFPFSALGWP  
QETPDLARFYPLSLEtGSDLLLFVWGRMVMLGTQLTGQLPFsKVLlHPMVRDRQGRKMS  
KSLGNVLDPRDIISGVEMQVLQEKLRSGNLDPAELaIVAAAQKKDFPHGIPECgTDALRF  
TLCshGVQAGDLHLSVSEVQSCRHFcNKIWNALRFILNALGEKFVPQPAEELSPSSPMDA  
WILSRlALAAQECERGfLTRELsLVTHALHhFWLHNLCdVYLEAVKpVLWHSPrPLGPPQ  
VLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPsISVAPYPSACsLEHWRQPELE  
RRFSRVQEVVQVLRALRATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTlGYCGAVGL  
LPPGAAAPSGWAQAPLSDTAQVYMElQGLVDPQIQlPLLAARRYKLQKQLDSLtARTPSE  
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>sp|Q3SY00|T10IP\_HUMAN Testis-specific protein 10-interacting protein OS=Homo sapiens  
GN=TSGA10IP PE=1 SV=2

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QDLQQRsQSSRQTAKKDRKPRGQSKKGQSEEDHFPLlPRKPSFPFQWAWESiATDVR  
AVLQPSSPTPGHqALPMPSSFSQRQSRRKSTANLPEAHGCCWKTEAQNlKARQQLGAWGG  
VSIPTGKGELGSEPPSGlQLPGRRPGSgSASDKQVQLQSLGAEEAERGLSSGVLPQRPRR  
GSISEEEQFSEATEEAEEGEHRTPCRRRAGCQRKGQISGEEASDEGEVQGGsQGSsPSFN  
NLRRRQWRKTRAKELQGpWDLEKLHRQLQRDLDCGPQKLpWKTlRAAFQASKRNGKAYAS  
GYDETfVSANLPNRTfHKRQEATRSLlQAWERQRQEERQQAElRRARTQHVQRQVAHCLA  
AYAPRGSRGPGAAQRKLEELRRQERQRFAEYQAElQGiqHRVQARPFLFQQAMQANARLT  
VTRRFSQVLSALGLDEEQLLSEAGKVDREGTPRKPRSHRSMGVRMEHSPQRPPRTEPTGS  
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>sp|A2VDJ0|T131L\_HUMAN Transmembrane protein 131-like OS=Homo sapiens GN=KIAA0922 PE=1  
SV=2

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LLPTQGdSEEGLEEPSQEQSFSDKLfSGKGLHFQPSVLDfGIQFLGHPVAKILHAYNPSR  
DSEVVNSVFAAAGHFHVPVPCRVIpAMGKTSFRIIFLPTEEGSIessLfINTSSyGVL



SYHVSIGTRRISTEGSAKQLPNAYFLLPKVQSIQLSQMQAETTNTSLLQVQLECSLHNK  
VCQQLKGCYLESDDLRLQMSIMVTMENFSKEFEENTQHLLDHLISIVYVATDESETSDDS  
AVNMYILHSGNSLIWIQDIRHFSQRDALSLQFEPVLLPTSTNTFKIASFTCKATSCDSG  
IIEDVKKTTHPTLKACLFSSVAQGYFRMDSSATQFHIETHENTSGLWSIWYRNHFDRSV  
VLNDVFLSKETKMLKILNFTGPLFLPPGCWNIFSLKLAVKDIAINLFTNVFLTNTNIGAI  
FAIPLQIYSAPTKEGSLGFEVIAHCGMHYFMGKSKAGNPWNWGSLSLDQSTWNVDSELAN  
KLYERWKYKNGDVCKRNVLTTRFAHLKKSKESESFVFLPRLIAEPGLMLNFSATALR  
SRMIKYFVVQNPSSWPVSLQLLPLSLYPKPEALVHLLHRWFGTDMQMINFTTGEFQLTEA  
CPYLGTHSEESRFGILHLHLQPLEMKRVGVVFTPADYGKVTSLILIRNNLTVIDMIGVEG  
FGARELLKVGGRPLGAGGSLRFKVPESLMDCRRQLKDSKQILSITKNFKVENIGPLPIT  
VSSLKINGYNCQGYGFEVLDCQFSLDPNTSRDISIVFTPDFTSSWVIRDLSLVTAADLE  
FRFTLNVTLPHLLPLCADVVPGPSWEESFWRLTVFFVSLSLGVILIAFQQAQYILMEF  
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QNAAKRSPATYGHSGQKHKCSVYYSKHKTSTAAASSTSTTTEEKQTSPLGSSLPAAKEDI  
CTDAMRENWISLRYASGINVLQKNLTLPKNLLNKEENTLKNITVFSNPSSECSMKEGIQ  
TCMFPKETDIKTSENTAEFKERELCPLKTSKKLPENHLPRNSPQYHQPDLPEISRKNNGN  
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KREGNLQNLNWSKSRTRCKNKKRGVAPVSRPPEQSDLKLVCSDFERSELSSDINVRSWCI  
QESTREVCKADAEIASSLPAAQREAEGYQKPEKKCVDFKCSDDSSDCGSSSGSVRASRG  
SWGWSSTSSSDGDKKPMVDAQHFLPAGDSVSQNDPSEAPISLNLSHNICNPMTVNSLP  
QYAEPSCPSLPAGPTGVEEDKGLYSPGDLWPTTPVCVTSSLNCTLENGVPCV IQESAPVH  
NSFIDWSATCEGQFSSAYCPELNDYNAPFEENMNYANGFPCPADVQTD FIDHNSQSTWN  
TPPNMPAAWGHASFISSPPYLSTRSLSPM SGLFGSIWAPQSDVYENCCPINPTTEHSTH  
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>sp|Q6IEE7|T132E\_HUMAN Transmembrane protein 132E OS=Homo sapiens GN=TMEM132E PE=1 SV=1

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TVNWKVRAFIVRSHVPASQPVVQVLFYVAGRDWDDFGVTERLPCVRLHAFRDAREHPLLR  
IGSISLFRPPPRRTLQEHRLDSNLMIRLPDRPLKPGEVLSILLYLAPNSSSPSPSVEHF  
TLRVKAKKGVTLLGTSRSGQWHVTSELLTGAKHSTATVDVAWAQSTPLPPREGQGPLEI  
LQLDFEMENFTSQSVKRRIMWHIDYRGHGALPDLERAVTELTVIQRDVQAILPLAMDTEI  
INTAILTGRTVAIPVKVIAIEVNLGLVDISALVECESDNEDIKVVSSCDYV FVSGKESR  
GSMNARVTFRYDVLNAPLEMTVWVPKPLPHIELSDARLSQVKGWRVPILPDRRSVRESED  
EDEEEEEERRQSASRGCTLQYQHATLQVFTQFHHTSSEGTQVVTMLGPDWLVEVTDLVSD  
FMRVGDPRVAHMVDSSTLAGLEPGTTPFKVVSPLTEAVLGETLLTVTEEKVSITQLQAQV  
VASLALSLRPSGSSHTILATTAQQTSLFLKQEALLSLWLSYSDGTTAPLSLSPRDYG  
LLVSSLDEHVATVTQDRAFLPVVAAEAGSGGELLRAELTIAESCQKTKRKSVLATTPVGLR  
VHFGRDEEDPTYDYPGSPQPGPGGGEDEARGAGPPGSALPAPEAPGPGTASPVVPPTEDF  
LPLPTGFLQVPRGLTDLEIGMYALLGVFCLAILVFLINCIVFVLRYRHKRIPPEGQTSMD  
HSHHWVFLGNGQPLRVQGELSPPAGNPLETVPAFCHGDHSSGSSQTSVQSQVHGRGDGS  
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>sp|B9EJG8|T150C\_HUMAN Transmembrane protein 150C OS=Homo sapiens GN=TMEM150C PE=2 SV=1

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DPPASCVFSQVMNMAAFLALVAVLRFIQLKPKVLNPWLNISGLVALCLASFGMTLLGNF  
QLTNDEEIHNVGTSITFGFGTLTCWIQAALTLKVNINKNEGRRVGIPRVILSASITLCVVL  
YFILMAQSIHMYAARVQWGLVMCFLSYFGTFAVEFRHYRYEIVCSEYQENFLSFSESLSE  
ASEYQTDQV

>sp|Q5T4T1|T170B\_HUMAN Transmembrane protein 170B OS=Homo sapiens GN=TMEM170B PE=3 SV=1  
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LQRHRQGRVISVIAVSIGFLASVTGAMITSAAVAGIYRVAGKNMAPLEALVWVGQTVLT  
LIISFSRILATL

>sp|Q6ZVK1|T179A\_HUMAN Transmembrane protein 179 OS=Homo sapiens GN=TMEM179 PE=2 SV=2  
MALNNFLFAQCACYFLAFLFSFVVVPLSENGHDFRGRCLLFTEGMWLSANLTVQERERF  
TVQEWGPPAACRFSLLASLLSLLAAAHAWRTLFFLCKGHEGSFFSAFLNLLVSAFVFL  
VFIASITVSVGFTMWCDTITEKGTVPHSCEELQDIDLELGDNSAFYDQFAIAQFGLWAS  
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>sp|Q8NBD8|T229B\_HUMAN Transmembrane protein 229B OS=Homo sapiens GN=TMEM229B PE=2 SV=1  
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ERMYLRLRGRCPLLRCLIIYTLWTYLWEFTTGFI LRQFNACPWDYSQFDFDFMGLITLEY  
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>sp|Q5JRV8|T255A\_HUMAN Transmembrane protein 255A OS=Homo sapiens GN=TMEM255A PE=2 SV=1  
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GYYPGVILGFGSFLGIIGSNLIENKRQMLVASIVFISFGVIAAFCCAIVDGVFAARHIDL  
KPLYANRCHYVPKTSQKEAEEVISSTKNSPSTRVMRNLQAAREVNCPHLSREFCTPRI  
RGNTCFCCDLYNCGNRVEITGGYYEYIDVSSCQDI IHL YHLLWSATILNIVGLFLGIITA  
AVLGGFKDMNPTLPALNCSVENTHTPTVSYAHQVASYNTYYHSPHLPYPYAYDFQHSG  
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>sp|P35269|T2FA\_HUMAN General transcription factor IIF subunit 1 OS=Homo sapiens GN=GTF2F1  
PE=1 SV=2

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EMPESGAGSEFNRLREEARRKKYGIVLKEFRPEDQPWLLRVNGKSGRKFKGIKKGGVTE  
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RLKDQDQDEDEEEKEKRGRRKASELRIDLEDDLEMSSDASDASGEEGGRVPKAKKKAPL  
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>sp|Q96PV0|SYGP1\_HUMAN Ras/Rap GTPase-activating protein SynGAP OS=Homo sapiens  
GN=SYNGAP1 PE=1 SV=4

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EDEIHPLLI RDRRSESSRNKLLRRTVSVPEGRPHGEHEYHLGRSRRKSVPGGKQYSMEG  
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KWIENLQRAVKPNKDNSRRVDNLKLWIEARELPKKRYCELCLDDMLYARTTSKPRS  
ASGDTVFWGEHFEFNNLPVAVRALRLHLYRDSDKRKKKDKAGYVGLVTPVATLAGRHFE  
QWYPVTLPTGSGSGGMGSGGGGGSGGGSGGKGKGGCPAVRLKARYQTMSILPMELYKEF

AEYVTNHYRMLCAVLEPALNVKGKEEVASALVHILQSTGKAKDFLSDMAMSEVDRFMERE  
HLIFRENTLATKAIEEYMRLIGQKYLKDAIGEFIRALYESEENCEVDPIKCTASSLAEHQ  
ANLRMCCELALCKVVNSHCVPRELKEVFASWRLRCAERGREDIADRLISASLFLRFLCP  
AIMSPSLFGLMQEYPDEQTSRTLTLIAKVIQNLANFSKFTSKEDFLGFMNEFLELEWGSM  
QQFLYEISNLDLTNSSSFEGYIDLGRELSTLHALLWEVLPQLSKEALLKLGPLPRLND  
ISTALRNPNIQRQPSRQSERPRPQPVVLRGPPSAEMQGYMMRDNLSSIDLQSFMARGLNSS  
MDMARLPSPTEKPPPPPPGGGKDLFYVSRPPLARSSPAYCTSSSDITEPEQKMLSVNKS  
VSMDLQGDGPGGRLNSSSVSNLAAVGDLLHSSQASLTAALGLRPAPAGRLSQSGSSIT  
AAGMRLSQMGVTTDGVPAQQRLIPLSFQNPLFHMAADGPGPPGGHGGGGGGHPPSSHHHH  
HHHHHHRGGEPPGDTFAPFHGYKSEDLSSGVKPPAASILHSHSYSEDFGPSGTDFTRR  
QLSLQDNLQHMLSPQITIGPQRPAQSGPGGGSGGGSGGGGGGPPPLQRGKSQQLTVSA  
AQKPRPSSGNLLQSPESYGPAPRQQLSKEGSIKGGSGGGGGGGGLKPSITKQHSQT  
PSTLNPTMPASERTVAWVSNMPLSADIESAHIEREEYKLKEYSKSMDESRLDRVKEYEE  
EIHSLKERLHMSNRKLEEYERRLLSQEEQTSKILMQYQARLEQSEKRLRQQAEKDSQIK  
SIIIGRLMLVEEELRRDHPAMAEPLPEPKRLLDAQERQLPPLGPTNPRVTLAPPWNGLAP  
PAPPPPPRLQITENGEFRNTADH

>sp|Q5T160|SYRM\_HUMAN Probable arginine--tRNA ligase, mitochondrial OS=Homo sapiens  
GN=RARS2 PE=1 SV=1

MACGFRRRAIACQLSRVLNLPENLITSISAVPISQKEEVADFQLSVDLSLEKDNDHSRPD  
IQVQAKRLAEKLRCDTVSEISTGQRTVNFKINRELLTKTVLQQVIEDGSKYGLKSELFS  
GLPQKKIIVVEFSSPNVAKKFHVHGLRSTIIIGNFIANLKEALGHQVIRINYLGDWGMQFGL  
LGTGFQLFGYEEKLQSNPLQHLFEVYVQVNKEAADDKSVAKAAQEFFQRLELGDVQALSL  
WQKFRDLSIEEYIRVYKRLGVYFDEYSGESFYREKSQEVLLKLESKGLLLKTIKGTAVVD  
LSGNGDPSSICTVMRSDGTSLYATRDAAAIDRMDKYNFDTMIYVTDKGQKKHFQQVFQM  
LKIMGYDWAERCQHVFPFVVGKTRRGDVTFLVDLNEIQLRMLQNMASIKTTKELKNP  
QETAERVGLAALIIQDFKGLLLSDYKFSWDRVFQSRGDTGVFLQYTHARLHSLREETFGCG  
YLNDFNNTACLQEPQSVSILQHLLRFDEVLYKSSQDFQPRHIVSYLLTLSHLAAVAHTLQ  
IKDSPPEVAGARLHLFAVRSVLANGMKLLGITPVCRM

>sp|Q6XYQ8|SYT10\_HUMAN Synaptotagmin-10 OS=Homo sapiens GN=SYT10 PE=2 SV=1

MSFHKEDGVNSLCQKALHIVTELCFAGQVEWEKCSGIFPRDRGSQGGSSDISVSLAVV  
VSFCGLALLVVSFLVFWKLCWPCWKSQVTSNITTLQSISSAPTEVFETEEKKEIKENE  
KPAVKAIEPAIKISHTSPDIPAEVQTALKEHLIKHARVQRQITEPTSSTRHSSFRRHLPR  
QMQVSSVDFSMGTEPVLQRGETTTSIGRIKPELYKQKSVDSQGNQEDVKICGKLNFTLQ  
YDYENELLVVKIIKALDLPKDFGTGSDPYVKMYLLPDRKKKFQTRVHRKTLNPLFDETF  
QFPVAYDQLSNRKLHFSVYDFDRFSRDMIGEVIIDNLFEVSDLSREATVWKDIHCATTE  
SIDLGEIMFSLCYLPTAGRMTLTVIKCRNLKAMDITGSSDPYVKVSLMCEGRRLKKRKT  
TKKNTLNPVYNEAIIIFDIPPENVDQVSLIAVMDYDRVGHNEVIGVCRTGLDAEGLGRDH  
WNEMLAYHRKPITHWHPLLELPGRATSFDSQGSCSPKPPSTP

>sp|Q9BQS2|SYT15\_HUMAN Synaptotagmin-15 OS=Homo sapiens GN=SYT15 PE=2 SV=3

MAEQLALVIGGTIGGLLLLLLIGASCCLWRRFCATLTYEELPGTPAMATTAASSGQRDRP  
CQPHARTQLSRPPAVPFVVPPTLQGRDWVPLHSGEWADAPWDPCPASELLPHTSSGGLGD  
ACMVGAINPELYKFPEDKSETDFPDGCLGRLWFSVEYEQAERLLVGLIKAQHLQAPSET  
CSPLVKLYLLPDERRFLQSKTKRKTSPQFDEHFIQVSSKTITQRVLFKFSVYHVDRQRK  
HQLLGQVLFPLKNETLVGDCRRVIWRDLEAESLEPPSEFGDLQFCLSYNDYLSRLTVVVL

RAKGLRLQEDRGIVSVFVKVSLMHNKFKVCKKTSAVLGSINPVYNETFSFKADATELDT  
ASLSLTVVQNMEGDKSQQLGRVVVGPYMYTRGRELEHWDEMLSKPKELVKRWHALCRTTE  
P

>sp|Q9HCH5|SYTL2\_HUMAN Synaptotagmin-like protein 2 OS=Homo sapiens GN=SYTL2 PE=1 SV=3  
MIDLSFLTEEEQEAIMKVLQRDAALKRAEEERVHRLPEKIKDDQQLKNMSGQWFYEAKAK  
RHRDKIHGADIIRASMRKKRPQIAAEQSKDRENGAKESWVNNVNKDAFLPPELAGVVEEP  
EEDAAPASPSSSVNPASSVIDMSQENTRKPNVSPEKRKNPFNSSKLPEGHSSQQTKNEQ  
SKNGRTGLFQTSKEDELSSEKESKSTVADTSIQKLEKSKQTLPGLSNGSQIKAPIPKARKM  
IYKSTDLNKDDNQSFPRQRTDSLKARGAPRGILKRNSSSSSTDSETLRYNHNFEPKSKIV  
SPGLTIHERISEKEHSLEDNSSPNSLEPLKHVRFSAVKDELPQSPGLIHGREVGEFSVLE  
SDRLKNGMEDAGDTEEFQSDPKPSQYRKPSLFHQSTSSPYVSKSETHQPMTSGSFPINGL  
HSHSEVLTAARPQSMENSPTINEPKDKSSELTRLESVLPRSPADELSHCVEPEPSQVPGGS  
SRDRQQGSEEEPSVLKTLERSAARKMPKSKSLEDISSDSSNQAKVDNQPEELVRS AEDVS  
TVPTQPDNPFSDPKLKRMSKSVPAFLQDESDDRETDTASESSYQLSRHKKSPSSLTNLS  
SSSGMTSLSSVSGSVMSVYSGDFGNLEVKGNIQFAIEYVESLKELVHVFVAQCKDLAAADV  
KKQRSDPYVKAYLLPDKGKMGKKKTLVVKTLNPVYNEILRYKIEKQILKTQKLNLSIWH  
RDTFKRNSFLGEVELDLETWDWNKQNKQLRWYPLKRKTAPVALEAENRGEMKLALQYVP  
EPVPGKKLPTTGEVHIWVKECLDPLLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKTTN  
PIFNHTMVYDGRPEDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDST  
SEEVALWEKMNVPNTWIEATLPLRMLLIKISK

>sp|Q96C24|SYTL4\_HUMAN Synaptotagmin-like protein 4 OS=Homo sapiens GN=SYTL4 PE=1 SV=2  
MSELLDLSFLEEKDLILSVLQRDEEVKRADEKRIIRRLKNELLEIKRKGAKRGSQHYS  
RTCARCQESLGRSLPKTNTCRGCNHLVCRDCRIQESNGTWCKVCAKEIELKKATGDWYF  
DQKVNRFAYRTGSEIIRMSLRHKPAVSKRETVGQSLLHQTQMGGDIWPGRKIIQERQKEPS  
VLFEVPKLKSGKSALEAESESLDSFTADSDTSRRDSLDSGLFPEWKKMSAPKSQVEKE  
TQPGGQNVVFDGEMIFKKNTRKILRPSEYTKSVIDLRPEDVVHESGLGDRSKSVPG  
NVDMEEEEEEDIDHLVKLHRQKLARSSMQSGSSMSTIGSMMSIYSEAGDFGNIFVTGRI  
AFSLKYEQQTQSLVVHVKECHQLAYADEAKKRSNPYVKTYLLPDKSRQGKRKTSIKRDTI  
NPLYDETLRYEIPESLLAQRTLQFSVWHHGRFGRNTFLGEAEIQMDSWKLDKKLDHCLPL  
HGKISAESPTGLPSHGELVVS LKYIPASKTPVGGDRKKS KGGEGGELQVWIKEAKNLTA  
AKAGGTSDFSFGYLLPMRNKASKRKTVMKKTLNPHYNHTFVYNGVRLEDLQHMCLELT  
VWDREPLASNDLGGVRLGVGTGISNGEVVDWMDSTGEEVSLWQKMRQYPGSWAEGTLQL  
RSSMAKQKLGL

>sp|Q9UGM6|SYWM\_HUMAN Tryptophan--tRNA ligase, mitochondrial OS=Homo sapiens GN=WARS2  
PE=1 SV=1

MALHSMRKARERWSFIRALHKGSAAPALQKDSKKRVFSGIQPTGILHLGNYLGAIESWV  
RLQDEYDSVLYSIVDLHSITVPQDPAVLRQSILDMTAVLLACGINPEKSILFQQSQVSEH  
TQLSWILSCMVRPLRLQHLHQWKAKTQKQKHDGTVGLLTYPVLQAADILLYKSTHVPVGE  
DQVQHMELVQDLAQGFNKKYGEFFVPESILTSMKKVKSRLRDPKSAKMSKSDPKLATVRI  
TDSPEEIVQKFRKAVTDFTSEVTDYPAGRAGVSNI VAVHAAVTGLSV EEVVRRSAGMNTA  
RYKLAVADAVIEKFAPIKREIEKLLDKDHLEKVLQIGSAKAKELAYTVCQEVKKLVGFL

>sp|Q9H061|T126A\_HUMAN Transmembrane protein 126A OS=Homo sapiens GN=TMEM126A PE=1 SV=1  
MENHKSNNKENITIVDISRKINQLPEAERNLLENGSVYVGLNAALCGLIANS LFRRI LNV  
TKARIAAGLPMAGIPFLTDTLTYRCFVSFPLNTGDLDCETCTITRSGLTGLVIGGLYPVF

LAIPVNGGLAARYQSALLPHKGNILSYWIRTSKPVFRKMLFPILLQTMFSAYLGSEQYKL  
LIKALQLSEPGKEIH

>sp|Q86TG1|T150A\_HUMAN Transmembrane protein 150A OS=Homo sapiens GN=TMEM150A PE=1 SV=1  
MTAWILLPVSLSAFSITGIWTVYAMAVMNHVCPVENWSYNESCPPDAEQGGPKTCCTL  
DDVPLISKGSYPPESCFLSLIGNMGAFMVALICLLRYGQLEQSRHSWVNTTALITGCT  
NAAGLLVVGNFQVDHARSLHYVGAGVAFAPAGLLFVCLHCALSYQGATAPLDLAVAYLRV  
LAVIAFITLVLSGVFFVHESSQLQHGAALCEWVCVIDILIFYGTFSYEFGAVSSDTLVAA  
LQPTPGRACKSSGSSSTSTHLNCAPESIAMI

>sp|Q3YBM2|T176B\_HUMAN Transmembrane protein 176B OS=Homo sapiens GN=TMEM176B PE=1 SV=2  
MTQNTVIVNGVAMASRPSQPTHVNVHIHQESALTQLLKAGGSLKKFLFHPGDTV PSTARI  
GYEQLALGVTQILLGVVSCVLGVCLSLGPWTVLSASGCAFWAGSVVIAAGAGAI VHEKHP  
GKLAGYISSLLTLAGFATAMAAVVL CVNSFIWQTEPFLYIDTVCDRSDPVFPTTGYRW MR  
RSQENQWQKEECRAYMQMLRKLF TAIRALFLAVCVLKVIVSLVSLGVGLRNLCGQSSQPL  
NEEGSEKRLLGENSVPPSPSREQTSTAIVL

>sp|Q8IXX5|T183A\_HUMAN Transmembrane protein 183A OS=Homo sapiens GN=TMEM183A PE=1 SV=2  
MARGPGPLGRPRPDTVAMPKRGKRLKFRAHDACSGRVT VADYANDPAVVRSGRVKKAVA  
NAVQQEVKSLCGLASQVPAEEALSGAGEPCDIIDSSDEMDAQEESIHERTVSRKKKSKR  
HKEELDGAAGGEEYPMDIWL LLAS YIRPEDI VNFSLICKNAWTVTCTAAF WTRL YRRHYTL  
DASLPLRLRPESMEKLRCLRACVIRSLYHMYEPFAARISK NPAIPESTPSTLKN SKCLLF  
WCRKIVGNRQEPMWEFNFKFKKQSPRLKSKCTGGLQPPVQYEDVHTNPDQDCLLQVTTL  
NFI FIPV MGI FTLTIN VSTDMRHHRVRLVFQDSPVHGGRKLRSEQGVQVILDPVHSV  
RLFDWWHPQYPFSLRA

>sp|Q8NFB2|T185A\_HUMAN Transmembrane protein 185A OS=Homo sapiens GN=TMEM185A PE=1 SV=2  
MNLRGFLQDFNPSKFLIYACLLFSVLLALRLDGI IQWSYWAVFAPIWLWKL MVIVGASV  
GTGVWARNPQYRAEGETCVEFKAMLI AVGIHLLLLMFEVLVCDRIERGSHFWLLVFMPLF  
FVSPVSAACVWGRHRSLELEILCSVNILQFIFIALRLDKI IHWPWL VVCVPLWILMS  
FLCLVLYYIVWSVLFLRSM DVIAEQRRTHITMALSWMTIVVPLLTFEILLVHKLDGHNA  
FSSIPIFVPLWLSLITL MATTFGQKGGNHWWFGIRKDFCQFLEIFPFLREYGNISYDLH  
HEDNEETEETPVPEPPKIAPMFRKKARVVITQSPGKYVLP PPKLNIE MPD

>sp|Q86VY9|T200A\_HUMAN Transmembrane protein 200A OS=Homo sapiens GN=TMEM200A PE=1 SV=1  
MIATGGVITGLAALKRQDSARSQQHVNLSPSPATQEKKPIRRRPRADV VVRGKIRLYSP  
SGFFLILGLVLSIIGIAMAVLGYPQKEHFIDAETTLSTNETQVIRNEGGVVVRFFEQHL  
HSDKMKMLGPFTMGIGIFIFICANAILHENRDKETKIIHMRDIYSTVIDIHTLRIKEQRQ  
MNGMYTGLMGETE VKQNGSSCASRLAANTIASFSGFRSSFRMDSSVEEDELMLNEGKSSG  
HLM PPLLSDSSVS VFGLYPPPSKTDDKTSGSKK CETKSIVSSISAFTLPVIKLN CVI  
DEPSIDNITEDADNLKSRSRNLSMDSLV VPLPNTSESFQPVSTVLPRNNSIGESLSSQYK  
SSMALGPGAGQLLSPGAARRQFGSNTSLHLLSSH SKSLDLDRGPSTLTVQAEQRKHPSWP  
RLDRNNSKGYMKLENKEDPMDRLLPQVAIKKDFTNKEKLLMISRSHNNLSFEHDEF LSN  
NLKRG TSETRF

>sp|O75157|T22D2\_HUMAN TSC22 domain family protein 2 OS=Homo sapiens GN=TSC22D2 PE=1 SV=3  
MSKMPAKKKSCFQITSVTTAQVATSITEDTESLDDPDESRTEDVSSEIFDVSRATDYGPE  
EVCERSSEETLNNVGDAETPGTVSPNLLLDGQLAAAAAAPANGGVVSARSVSGALAST  
LAA AATSAPAPGAPGGPQLAGSSAGPVTAAPSQPPTTCSRFRVIKLDHGS GEPYRRGRW  
TCMEYYERDS DSSVLTRSGDCIRHSSTFDQTAERDSGLGATGGSVVVVVASMQAHPES

GTSSSLTAVSQLPPSEKMSQPTPAQPQSFSVGQPQPPPPVGGAVAQSSAPLPPFPGAAT  
GPQPMMAAAQPSQPQGAGPGGQTLPTNTVTLAQPAMSLPPQPGPAVGAPAAQQPQQFAYP  
QPQIPPGHLLPVQPSGGSEYLQQHVAGLQPPSPAQPSSTGAAASPATAATLPVGTGQNAS  
SVGAQLMGASSQPSEAMAPRTGPAQGGQVAPCQPTGVPPATVGGVVQPCLGPAGAGQPQS  
VPPPQMGSGPLSAVPGGPHAVVPGVPNPVPAVPAPSVPSVSTTSVTMPNPAPLAQSQQ  
LSSHTPVSRSSSI IQHVGLPLAPGTHSAPTSLSLQSDLSQFQTQTQPLVGQVDDTRRKSEP  
LPQPPLSLIAENKPVVKPPVADSLANPLQLTPMNSLTSVFSIAIPVDGDEDRNPSTAFY  
QAFHLNLTLESKSLWDSASGGGVVAIDNKIEQAMDLVKSHLMYAVREEVEVLKEQIKELV  
ERNSSLERENALLKSLSSNDQLSLPTQQANPGSTSQQQAVIAQPPQPTQPPQQPNVSSA  
>sp|Q99576|T22D3\_HUMAN TSC22 domain family protein 3 OS=Homo sapiens GN=TSC22D3 PE=1 SV=2  
MNTEMYQTPMEVAVYQLHNFSISFFSLLGGDVSVKLDNSASGASVVAIDNKIEQAMD  
LVKNHLMYAVREEVEILKEQIRELVEKNSQLERENTLLKTASPEQLEKFQSCLSPEEPAP  
ESPQVPEAPGGS AV

>sp|Q6P1K8|T2H2L\_HUMAN General transcription factor IIH subunit 2-like protein OS=Homo sapiens GN=GTF2H2C PE=1 SV=1  
MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVEHHGQVRLGMMRH  
LYVVVDGSRMEDQDLKPNRLTCTLKLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTEL  
SGNPRKHITSLKEAVDMTCHGEPSTLYNSLSMAMQTLKHMPGHTSREVLIIFFSLTTC DPS  
NIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDESHYKELLTHHLSPPP  
ASSSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTPEGLTLGGYFCPQCRAKYCE  
LPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVYVC  
AVCQNVFCVDCDVFVHDSLHCCPGCIHKIPAPSGV

>sp|Q9NYW0|T2R10\_HUMAN Taste receptor type 2 member 10 OS=Homo sapiens GN=TAS2R10 PE=1 SV=3  
MLRVVEGIFIFVVVSESVFGVLNGFIGLVNCIDCAKNKLSTIGFILTGLAISRIFLIWI  
IITDGFQIFSPNIYASGNLIEYISYFWVIGNQSSMWFATSLSIFYFLKIANFSNYIFLW  
LKSRTNMVLPFMIVFLLISSLLNFAYIAKILNDYKTKNDTVWDLNMYKSEYFIKQILLNL  
GVIFFFTLSLITCFLIISLWRHNRQMNSVTGLRDSNTEAHVKAMKVLISFIILFILYF  
IGMAIEISCFTVRENKLLLMFGMTTIAIYPWGHSFILILGNSKLKQASLRVLQQLKCCEK  
RKNLRVT

>sp|P59538|T2R31\_HUMAN Taste receptor type 2 member 31 OS=Homo sapiens GN=TAS2R31 PE=2 SV=2  
MTTFIPIIFSSVVVLFVIGNFANGFIALVNSIERVKRQKISFADQILTALAVSRVGLLW  
VLLLNWYSTVFNPAFYSVEVRTTAYNVWAVTGHFSNLATSLSIFYLLKIANFSNLIFLH  
LKRRVKSIVILVMLLGPLLFLACQLFVINMKEIVRTKEYEGNLTWKIKLRSAYVLS DATVT  
TLGNLVPFTLTLLCFLLLICSLCKHLKKMQLHGKGSQDPSTKVHIKALQTVIFFLLCAV  
YFLSIMISVVSFGSLENKPVFMFCKAIRFSYPSIHPFILIWGNNKKLQTFLSVLRQVRYW  
VKGEKPSSP

>sp|P59533|T2R38\_HUMAN Taste receptor type 2 member 38 OS=Homo sapiens GN=TAS2R38 PE=2 SV=3  
MLTLTRIRTVSYEVRSTFLFISVLEFAVGFLTNAFVFLVNFWDVVKRQALSNSDCVLLCL  
SISRLFLHGLLFLSATQLTHFQKLSEPLNHSYQAIIMLWMIANQANLWLAACLSLLYCSK  
LIRFSHTFLICLASWVSRKISQMLLGIILCSCICTVLCVWCFFSRPHFTVTTVLFMNNNT  
RLNWQIKDLNLFYSFLFCYLWSVPPFLLFLVSSGMLTVSLGRHMRTMKVYTRNSRDP SLE

AHIKALKSLVSFFCFVVISSCAAFISVPLLILWRDKIGVMVCGIMAACPSGHAAILISG  
NAKLRRRAVMTILLWAQSSLKVRADHKADSRTLC

>sp|Q96EM0|T3HPD\_HUMAN Trans-3-hydroxy-L-proline dehydratase OS=Homo sapiens GN=L3HYPDH  
PE=1 SV=2

MESALAVPRLPPHPDGPVLSVVDMMHTGGEPLRIVLAGCPEVSGPTLLAKRRYMRQHLDH  
VRRRLMFEPGRHRDYGAVLVPSELPAHLGVLFLHNEGYSMCGHAVLALGRFALDFGL  
VPAPPAGTREARVNIHCPCGLVTAFAVEDGRSHGPVRFHSVPAFVLATDLMVDVPGHGK  
VMVDIAYGGAFYAFVTAEKLGLDICSAKTRDLVDAASAVTEAVKAQFKINHPDSEDLAFL  
YGTILTGDKDAYTKEPTTNICVFADEQVDRSPTGSGVTARIALQYHKGLLELNQMRAFKS  
SATGSVFTGKAVREAKCGDFKAVIVEVSGQAHYTGASFIIEDDDPLRDGFLK

>sp|P30408|T4S1\_HUMAN Transmembrane 4 L6 family member 1 OS=Homo sapiens GN=TM4SF1 PE=1  
SV=1

MCYGKCARCIGHSLVGLALLCIAANILLYFPNGETKYASENHLSRFVWFFSGIVGGGLLM  
LLPAFFVFIGLEQDDCCGCCGHENCGKRCAMLSSVLAALIGIAGSGYCVIVAALGLAEGPL  
CLDSLQWNYTFASTEGQYLLDTSTWSECTEPKHIVEWNVSLFSILLALGGIEFILCLIQ  
VINGVLGGICGFCCSHQQQYDC

>sp|Q9Y2B4|T53G5\_HUMAN TP53-target gene 5 protein OS=Homo sapiens GN=TP53TG5 PE=1 SV=1

MSPSAKKRPKNSRVSKMQDEKLRETEQPVSKVIERNRLRTVLKNLSLLKLLKSSNRRIQ  
ELHKLAKRCWHSLLSVPKILRISSGENSACNKTQNNEEFQEIGCSEKELKSKKLESTGD  
PKKKEYKEWKSQVQSGMRNKEKTSLAAMPKEKHIEPEVPRTSRDDSLNPGVQGRQPLTE  
GPRVIFIKPYRNRTPMGHMKQLDVADQWIWFEGLPTRIHLPAPRVMCRSSTLRWVKRRCT  
RFCSASLEMPMWHYPKYVDVTWTRARGASRGWRSRHLKGRNGWRNSRVYK

>sp|Q96A56|T53I1\_HUMAN Tumor protein p53-inducible nuclear protein 1 OS=Homo sapiens  
GN=TP53INP1 PE=1 SV=1

MFQRLNKMFGVGEVSSSSNQEPEFNEKEDDEWILVDFIDTCTGFSAAAAAEDISEESPT  
EHPSVFSCLPASLECLADTSDSCFLQFESCPMEESWFITPPPCFTAGGLTTIKVETSPME  
NLLIEHPSMSVYAVHNSCPGLSEATRGTDELHSPSSPRVEAQNEMGQHIHCYVAALAAHT  
TFLEQPKSFRPSQWIKESERQPLNRNSLRRQNLTRDCHPRQVKHNGWVVHQP CPRQNY

>sp|Q8N5C8|TAB3\_HUMAN TGF-beta-activated kinase 1 and MAP3K7-binding protein 3 OS=Homo  
sapiens GN=TAB3 PE=1 SV=2

MAQSSPQLDIQVLHDLRQRFPEIPEGVVSQCMLQNNNNLEACCRALSQESSKYLYMEYHS  
PDDNRMRNRLLHINLGIHSPSSYPGDGAQLNGGRTLHSSSDGHIDPQHAAGQLICL  
VQEPHSAPAVVAATPNYNPFFMNEQNRSAATPPSQPPQQPSSMTGMNPSAMQGPSPPPP  
PPSYMHIPRYSTNPITVTVSQNLPSGQTVPRALQILPQIPSNLYGSPGSIYIRQTSQSSS  
GRQTPQSTPWQSSPQGPVPHYSQRPLPVYPHQNYQPSQYSPKQQQIPQSAYHSPPPSQC  
PSPFSSPQHQQPSQLGHIFMPPSPSTTPHPYQQGPPSYQKQGSHSVAYLPYTASSLSK  
GSMKKIEITVEPSQRPGTAINRSPSPISNQSPWNQHSLYTATTPSSSPSRGISSQPKP  
PFSVNPVYITYTQPTGSPCTSPSPRVIPNPTTVFKITVGRATTENLLNLVDQEERSAAP  
EPIQPISVIPGSGGEGSKHYQRSSSSGDDYAYTQALLHQARMERLAKQLKEKEEL  
ERLKSEVNGMEHDLMQRRLLRRVSCCTAIPTEEMTRLRSMNRQLQINVDCTLKEVDLLQS  
RGNFDPKAMNIFYDNIEPGPVVPPKPSKKDSSDPCTIERKARRISVTSKVQADIHDTQAA  
AADEHRTGSTQSPRTQPRDEDEYEGAPWNCDSCTFLNHPALNRCEQCEMPRYT

>sp|Q9Y6A5|TACC3\_HUMAN Transforming acidic coiled-coil-containing protein 3 OS=Homo  
sapiens GN=TACC3 PE=1 SV=1

MSLQVLNDKNVSNEKNTENCDFLSPPEVTGRSSVLRVSQKENVPPKNLAKAMKVTQTP  
LRDPQTHRILSPSMASKLEAPFTQDDTLGLENSHPVWTQKENQQLIKEVDAKTTHGILQK  
PVEADTDLLGDASPAFGSGSSSESGPGALADLDCSSSSQSPGSSSENMVSPGKVSQSPEQ  
AVEENLSSYSLDRRVTASETLEDPCRTESQHAETPHGAEECKAETPHGAEEECRHGG  
VCAPAAVATSPPGAIPKEACGGAPLQGLPGEALGCPAGVGTPVPADGTQTLTCAHTSAPE  
STAPT NHLVAGRAMT LSPQEEVAAGQMASSSRSGPVKLEFDVSDGATSKRAPPPRRLGER  
SGLKPPLRKA A VRQQKAPQEVEEDDGRSGAGEDPPMPASRGSYHLDWDKMDPNFIPFGG  
DTKSGCSEAQPPEPETRLGQPAAEQLHAGPATEEPGCLSQQ LHSASAEDTPVVLAAE  
TPTAESKERALNSASTSLPTSCPGSEVPVTHQQGQPALELKEESFRDPAEVLGTGAEV  
DYLEQFGTSSFKESALRKQSLYLKFDPLLRDSPGRVPVATETSSMHGANETPSGRPREAKL  
VEFDL GALDIPVPGPPPVGVPAPGGPPLSTGPIVDLLQYSQKDLDAVVKATQEE  
NRELRSRCEELHGKNLELGKIMDRFEEVVYQAMEEVQKQKELSKAEIQKVLKEK  
DQLTTDLNSMEKSFSDLFRFEKQKEVIEGYRKNEESLKKCVEDYLARITQEGQRYQALKAHA  
EEKLQLANE EIAQVRSKAQAEALALQASLRKEQMRIQSLEKTVEQKTKENEELTRICDD  
LISKMEKI

>sp|075478|TAD2A\_HUMAN Transcriptional adapter 2-alpha OS=Homo sapiens GN=TADA2A PE=1 SV=3

MDRLGPFPSNDPSDKPPCRGCSSYLMEPYIKCAECGPPPFLLCLQCFTRGFEYKKHQSDHT  
YEIMTSDFPVLDPSWTAQEEMALLEAVMDCGFGNWQDVANQMCTKTKEECEKHMKHFIN  
NPLFASTLLNLKQAEAAKTADTAIPFHSTDDPPRPTFDSLLSRDMAGYMPARADFIEEFD  
NYAEWDLRIDFVEDDSILHALKMAVVDIYHSRLKERQRRKKIIRDHGLINLRKFLME  
RRYPKEVQDLYETMRRFARIVGPVEHDKFIESHALEFELREIKRLQEYRTAGITNFC  
SARTYDHLKKTREEERLKRTMLSEVLQYIQDSSACQQLRRQADIDSGLSPSIPMASNSGRR  
SAPPLNLTGLPGTEKLNEKEKELCQMVRVLPAYLEYKSALLNECNKQGGRLAQA  
RALIKIDVNKTRKIYDFLIREGYITKG

>sp|Q12962|TAF10\_HUMAN Transcription initiation factor TFIID subunit 10 OS=Homo sapiens GN=TAF10 PE=1 SV=1

MSCSGSGADPEAAPASAASAPGPAPPVSAPAALPSSTAENKASPAGTAGGPGAGAAAGG  
TGPLAARAGEPAERRGAAPVSAGGAAPPEGAI SNGVYVLP  
SAANGDVKPVVSSTPLVDFL MQLEDYTP  
TIPDAVTGYLNRAGFEASDPRIIRLISLAAQKFISDIANDALQHCKMKGTA  
SGSSRSKSKDRKYTLTMEDLTPALSEYGINVKKPHYFT

>sp|Q16514|TAF12\_HUMAN Transcription initiation factor TFIID subunit 12 OS=Homo sapiens GN=TAF12 PE=1 SV=1

MNQFGPSALINLSNFSSIKPEPASTPPQGSMANSTAVVKIPGTPGAGGRLSPENNQVLTK  
KKLQDLVREVPNEQLDEDVEMLLQIADDFIESVVTAAACQLARHRKSSTLEV  
KDVQLHLERQWNMWIPGFGSEIRPYKKA  
CTTEAHKQRMALIRKTTKK

>sp|P21675|TAF1\_HUMAN Transcription initiation factor TFIID subunit 1 OS=Homo sapiens GN=TAF1 PE=1 SV=2

MGPGCDLLLRTAATITAAAIMSDTDSDEDSAGGGPFSLAGFLFGNINGAGQLEGESV  
LDD ECKHLAGL GALGLGLITELTANEELTGT  
DGALVNDEGWVRSTEDAVDYS  
DINEVAEDE SRRYQQT  
MGSLLPLCHSDYDEDDYDADCEDIDCKLMPPPPPPGPMKKDKDQDSITGEKV  
DFSSSSDSESEMGPQEATQAESEDGKLTPLAGIMQHDATKLLPSVTELFPEFRPGK  
VLR FLRLFGPGKNVPSVWRSARRKRKKKHREL  
IQEEQIQEVECSVESEVSQKSLWNYDYAPPP  
PPEQCLSDDEITMMAVESKFSQSTG  
DIDKVTDTKPRVAEWRYGPARLWYDMLGVPEDGS  
GFDYGFKL RKTEHEPVIKSRMIEEFRKLEENNGTDLLADENFLMVTQLHWEDDI  
IWDGED



VKHKGTPQRASLAGWLPSSMTRNAMAYNVQQGFAATLDDDKPWYSIFPIDNEDLVYGRW  
EDNI IWDAQAMPRLLEPPVLTLDPNDENLILEIPDEKEEATSNSPSKESKKESSLKKSRI  
LLGKTGVIKEEPQQNMSQPEVKDPWNLSNDEYYYPKQQGLRGTFGGNI IQHSIPAVELRQ  
PPFPTHMGPIKLRQFHRPPLKKYSFGALSQPGPHSVQPLLKHKKKAKMREQERQASGGG  
EMFFMRTPQDLTGKDGLILA EYSEENGPLMMQVGMATKIKNYYKRKPGKDPGAPDCKYG  
ETVYCHTSPFLGSLHPGQLLQAFENNLFRAPIYLHKMPETDFLI ITRQGYIIRELVDIF  
VVGQQCPLFEVPGPNKRANTHIRDFLQVFIYRLFWSKDRPRRIRMEDIKKA FPSHSES  
SIRKRLKLCADFKRTGMDSNWVWLKSDFRLPTEEEIRAMVSPEQCCAYYSMIAAEQRLKD  
AGYGEKSFFAPEEENEEDFQMKIDDEVRTAPWN TTRAFIAAMKGKCLLEV TG VADPTGCG  
EGFSYVKIPNKPTQQKDDKEPQPVKKTVTGTADLRRLSLKNAKQLLRKFGVPEEEIKKL  
SRWEVIDVVRTMSTEQARS GEGPMSKFARGSRFSVAEHQERYKEECQRIFDLQNKVLSST  
EVLSTD TSSSAEDSDFEEMGN IENMLQNKKTSSQLSREREEQERKELQRMLLAAGSAA  
SGNNHRDDDTASVTSLNSSATGRCLKIYRTFRDEEGKEYVRCETVRKPAVIDAYVRI RTT  
KDEEFIRKFALFDEQHREEMRKERRRIQEQLRRLKRNQEKEKLKGPPEKKPKMKERPDL  
KLKCGACGAIGHMRTNKF CPLYQTNAPPSNPVAMTEE QEEELEKTVIHNDNEELIKVEG  
TKIVLGKQLIESADEVRRKSLVLKFPKQQLPPKKKRRVGTTVHCDYLNRP HKS IHRRTD  
PMVTLSSILES I INDMRDLNPTY PFHTPVNAKVVKDYKI ITRPMDLQTLRENVKR LYP  
SREEFREHLELIVKNSATYNGPKHSLTQISQSM LDCDEKLKEKEDKLARLEKAINPLLD  
DDDQVAFS FILDNI VTQKMMAVPDSWPFHHPVNKKFVPDYKVI VNPMDLETIRKNISKH  
KYQSRESFLDDVN LILANSVKYNGPESQYTKTAQEI VNV CYQTLTEYDEHLTQLEKDICT  
AKEAALEEALES LDPMTPGPYTPQPPDLYDTNTSLSMSRDASVFQDES NMSVLDIPSAT  
PEKVQTQEGEDGDGLADEEEGTVQQPQASVLYEDLLMSEGEDDEEDAGSDEEGDNP FSA  
IQLSESGSDSDVGSGGIRPKQPRMLQENTRMDMENEESMMSYEGDGGEASHGLEDSNISY  
GSYEEDPKSNTQDTSFSSIGGYEVSEEEEEEEEEEQRSGPSVLSQVHLSEDEEDSEDFH  
SIAGDSDLDSDE

>sp|Q8N103|TAGAP\_HUMAN T-cell activation Rho GTPase-activating protein OS=Homo sapiens  
GN=TAGAP PE=1 SV=1

MKLRSSHNASKTLNANNMETLIECQSEGDIKEHPLLASCESEDSICQLIEVKKRKKVLSW  
PFLMRRLSPASDFSGALETDLKASLFDQPLSIICGSDTLPRPIQDILTILCLKGPSTEG  
IFRRAANEKARKELKEELNSGDAVDLERLPVHLLAVVFKDFLRSIPRKLSSDLFEEWMG  
ALEMQDEEDRIEALKQVADKLPRPNLLLLKHLVYVLHLISKNSEVNRMDSNLAICIGPN  
MLTLENDQSLSFEAQKDLNNKVKT LVEFLIDNCFEIFGENIPVHSSITSDSLEHTDSSD  
VSTLQND SAYDSNDPDESNSSSGISSPSRQPQVPMATAAGLDSAGPQDAREVSPEPIVS  
TVARLKSSLAQPD RRYSEPSMPSSQECLESRTNQT LTKSEGDFVPRVGRLESEEAED  
PFPEEVFPAVQGKTKRPVDLKIKNLAPGSVLPRALVLKAFSSSLDASSDSSPVASPSSP  
KRNFFSRHQSF TTKEKGKPSREIKKHSMSTFAPHKKVLTKNLSAGSGKSQDFTRDHVP  
RGVRKESQLAGRI VQENG CETHNQ TARGFCLRPHALSVD DVFQGADWERPGSPPSYEEAM  
QGPAARLVASESQT VGSMTVGS MRARMLEAHCLLPPLPAHHVEDSRHRGSKEPLPGHGL  
SPLPERWKQSRTVHASGDSLGHVSGPGRPELLPLRTVSESQRNKRDCLVRRCSQPVF EA  
DQFQYAKESYI

>sp|P17542|TAL1\_HUMAN T-cell acute lymphocytic leukemia protein 1 OS=Homo sapiens GN=TAL1  
PE=1 SV=2

MTERPPSEAA RSDPQLEGRDAAEASMAPPHLVLLNGVAKETSRAAAAEPPIELGARGGP  
GGGPAGGGGAARDLKG RDAATAEARHRVPTTELCRPPGPAPAPASVTAELPGDGRMVQ

LSPPALAAPAPGRALLYSLSQLASLGSGFFGEPDAFPMFTTNNRVKRRPSPYEMEITD  
GPHTKVVRRIFTNSRERWRQQNVNGAFAELRKLIPTHPPDKLSKNEILRLAMKYINFLA  
KLLNDQEEEGTQRAKTGKDPVVGAGGGGGGGGGAPPDDLQDVLSPNSSCGSSLDGAAS  
PDSYTEEPAPKHTARSLHPAMPLPAADGAGPR

>sp|Q9BVV6|TALD3\_HUMAN Protein TALPID3 OS=Homo sapiens GN=KIAA0586 PE=1 SV=4

MPVKRLREVVSQNHGDHLVLLKDELPCVPPALSANKRLPVGTSNLGTSRGSSDLTSAR  
NCYQPLEENPMVSESDFSKDVAVQVLPLDKIEENKQKANDIFISQYTMGQKDALRTVLK  
QKAQSMPVFKEVKVHLLLEDAGIEKDAVTQETRISPSGIDSATTVAAATAAAIATAAPLIK  
VQSDLEAKVNSVTELLSKLQETDKHLQRVTEQQTSIQRKQEKLHCHDHEKQMNVMFEQHI  
RHLEKLQQQQIDIQTHFISAALKTSSFQPVSMPSRAVEKYSVKPEHPNLGSCNPSLYNT  
FASKQAPLKEVEDTSFDKQKSPLETPAPRRFAPVPVSRDELKRENLLEKENMEVSCH  
RGNVRILLEQILNNNSLTRKSESSNTTSLTRSKIGWTPEKTNRFPSCEELETTKVTMQKS  
DDVLHDLGQKEKETNSMVQPKESLSMLKLPDLPQNSVKLQTTNTTRSVLKDAEKILRGVQ  
NNKKVLEENLEAIIRAKDGAAMYSINALSTNREMSEKIRIRKTVDEWIKTISAEIQDEL  
SRTDYEQKRFDQKNQRTKKGQNMTKDIRTNTQDKTVNKSVIPRKHSQKQIEEHFRNLPMR  
GMPASSLQKERKEGLLKATTVIQDEDYMLQVYGKPVYQGHRSTLKKGPYLRFNPSPKSR  
PQRPKVIERVKGTVKVSIRTQTDYFATKPKKMDSKMKHSVPVLPHGDQQYLFSPSREMP  
FSGTLEGHLIPMAILLGQTQSNSDTMPPAGVIVSKPHPVTVTTSSIPSSRKVETGVKKPN  
IAIVEMKSEKKDPPQLTVQVLPSVDIDSISNSSADVLSPLSSPKEASLPPVQTWIKTPEI  
MKVDEEEVKFPGTNFDEIIDVIEEEKDEIPDSEPILEFNRSVKADSTKYNGPPFPFVA  
STFQPTADILDKVIERKETLENSLIQWVEQEIMSRIISGLFPVQQQIAPSI SVSVSETSE  
PLTSDIVEGTSSGALQLFVDAGVPVNSNVIKHFVNEALAEITAVMLGDREAKKQGPVATG  
VSGDASTNETYLPARVCTPLPTPQPTPPCSPSSPAKECVLVKTPDSSPCDSDHMAFPVK  
EICAEGDDMPAIMLVNTPTVTPTTTPPPAAVFTPTLSDISIDKLKVSSELPKPGWDG  
DLPLEEENPNSPQEELHPRAIVMSVAKDEEPESMDFPAQPPPEPVFMPFPAGTKAPSP  
SQMPGSDSSTLESTLSVTVTETETLDKPISEGEILFSCGQKLAPKILEDIGLYLTNLNDS  
LSSTLHDAVEMEDDPPSEGQVIRMSHKKFHADAILSFAKQNESAVSQQAVYHSEDLNS  
VGELSEGQRPQLTAAENILMGHSLYMQPPVTNTQSLDQQCDPKPLSRQFDTVSGSIYED  
SCASHGPMSELGELEPNKSLVLPPTLLTAQENDVNLPVAAEDFSQYQLKQNDVKQVEH  
KPSQSYLRVRNKS DIAPSQQQVSPGMDRTQIELNPYLTCVFSGGKAVPLSASQMPPAKM  
SVMLPSVNLEDCSQSLSLSTMQEDMESSGADTF

>sp|P37837|TALDO\_HUMAN Transaldolase OS=Homo sapiens GN=TALD01 PE=1 SV=2

MSSSPVKRQRMESALDQLKQFTTVVADTGDFHAIDEYKPQDATTNPSLILAAAQMPAYQE  
LVEEAIAYGRKLGGSQEDQIKNAIDKLFVLFGAEILKKIPGRVSTEVDARLSFDKDAMVA  
RARRLIELYEAGISKDRILIKLSSTWEGIQAGKELEEQHGHCNMTLLFSFAQAVACAE  
AGVTLISPFPVGRILDWHVANTDKKSYELEDPGVKSVTKIYNYKKFSYKTIVMGASFRN  
TGEIKALAGCDFLTISPKLLGELLQDNAKLVPVLSAKAAQASDLEKIHLEKSFRLHNE  
DQMAVEKLSDGIRKFAADAVKLERMLTERMFNAENGK

>sp|P56192|SYMC\_HUMAN Methionine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=MARS PE=1  
SV=2

MRLFVSDGVPGLPVLAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNYLF  
STSAICRYFFLLSGWEQDDL TNQWLEWEATELQPALSAALYYLVVQGGKGEDVLGSVRRA  
LTHIDHLSRQNCPLAGETESLADIVLWGALYPLLQDPAYLPEELSALHSWFQTLSTQE  
PCQRAAETVLKQQGVLALRPYLQKQPQPSAEGRAVTNEPEEEELATLSEEEIAMAVTAW

EKGLESLPPLRPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFARYSRL  
RQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHADIYRWFNISFDIFGRTTTP  
QQTKITQDIFQQLKRGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDK  
CGKLINAVELKKPQCKVCRSCPVVQSSQHLFLDLPKLEKRLEEWLGRITLPGSDWTPNAQF  
ITRSWLRDGLKPRCITRDLKWGTPVPLEGFEDKVIFYVWFDATIGYLSITANYTDQWERWW  
KNPEQVDLYQFMAKDNVPFHSLVFPCALGAEDNYTLVSHLIATEYLNVEDGKFSKSRGV  
GVFGDMAQDGTGIPADIWRFYLLYIRPEGQDSAFSWTDLKNNSELLNNGNFINRAGMF  
VSKFFGGYVPEMVLTPDDQRLLAHVTLLELQHYHQLLEKVRIRDALRSILTISRHGNYIQ  
VNEPWKRIKGSEADRQRAGTVTGLAVNIAALLSVMLQPYMPTVSATIIQAQLQLPPACSI  
LLTNFLCTLPAHQIGTVSPLFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAKPQ  
QIQALMDEVTKQGNIVRELKAQKADKNEVAEVAKLLDLKKQLAVAEGKPEAPKGKKKK  
>sp|Q92797|SYMPK\_HUMAN Symplekin OS=Homo sapiens GN=SYMPK PE=1 SV=2  
MASGSGDSVTRRSVASQFFTQEEGPGIDGMTSERVVDLLNQAALITNDSKITVLKQVQE  
LIINKDPTLLDNFLDEIIAFQADKSIEVRKFVIGFIEEACKRDIELLLKLIANLNMLLRD  
ENVNVVKAILTMTQLYKVALQWMVKSRSVISELQEACWDMVSAMAGDIILLDSDNDGIR  
THAIFVEGLIVTSPRMADSEIPRRQEHDISLDRIPRDHPYIQYNVLWEEGKAALEQLL  
KFMVHPAISSINLTALGSLANIARQRPMFMSEVIQAYETLHANLPPTLAKSQVSSVRKN  
LKLHLLSVLKHPASLEFQAQITTLVLDLGTQAEIARNMPSSKDRKRPRDDSDTLKKM  
KLEPNLGEDDEDKDLPEGPSGTSKASQISGQSDTDITAEFLQPLTPDNVANLVLSMV  
YLPEAMPASFQAIYTPVESAGTEAQIKHLARLMATQMTAAGLPGVEQTKQCKEEPKEEK  
VVKTESVLIKRRLSAQGQAISVVGSLSSMSPLEEEAPQAKRRPEPIIPVTQPRLAGAGGR  
KKIFRLSDVLKPLTDAQVEAMKLGAVKRILRAEKAVACSGAAQVRIKILASLVTQFNSGL  
KAEVLSFILEDVRARLDLAFAWLYQEYNAYLAAGASGSLDKYEDCLIRLLSGLQEKPDQK  
DGIFTKVVLEAPLITESALEVVRKYCEDESRTYLGMSLTRDLIFKRPSRQFYLVHLLDL  
SSHEKDKVRSQALLFIKRMYEKQLREYVEKFALNYLQLLVHPNPPSVLFGADKDEVA  
PWTEETVKQCLYLALLPQNHKLIHELAAVYTEAIADIKRTVLRVIEQPIRGMGMNSPE  
LLLLVENC PKGAETLVTRCLHSLTDKVPPSPELVKRVRDLYHKRLPDVRFLIPVLNGLEK  
KEVIQALPKLIKLNPIVVKVFNRLGTQHGEONSALSPLNPGELLIALHNIDSVKCDMK  
SIIKATNLCFAERNVYTSEVLAVVMQQLMEQSPPLMLLMRTVIQSLTMYPRLGGFVMNIL  
SRLIMKQVWKYPKVWEGFIKCCQRTKPQSFQVILQLPPQQLGAVFDKCPRELREPLLAHVR  
SFTPHQQAHIPNSIMTILEASGKQEPEAKEAPAGLEDDLEPLTLAPAPAPRPPQDLIG  
LRLAQEKALKRQLEEEQKLKPGVGAPSSSSPSPSPSARPGPPSEEAMDFREEGPECET  
PGIFISMDDDSGLTEAALLDSSLEGPLKETAAGGLTLKEERSPQTLAPVGEDAMKTPSP  
AAEDAREPEAKGNS

>sp|Q92777|SYN2\_HUMAN Synapsin-2 OS=Homo sapiens GN=SYN2 PE=2 SV=3  
MMNFLRRRLSDSSFIANLPNGYMTDLQRPEPQQAPTPPPPGGAASASAAPPTASPGPER  
TPPAASAPAPPPARTPSVGSSLFSSLSQAVKQTAASAGLVDAPGAAPAAARKAKVLLVVD  
EPHADWAKCFRGKKVLGDYDIKVEQAEFSELNLVAHADGTYAVDMQVLRNGTKVRSFRP  
DFVLIRQHAFGMAENEDFRHLIIGMQYAGLPSINSLESIYNFCDKPWVFAQLVAIYKTLG  
GEKFLPIEQTYYPNHKEMLTLPFPVVVKIGHAHSGMGKVKVENHYDFQDIASVVALTQT  
YATAEPFIDSKYDIRVQKIGNNYKAYMRTSISGNWKTNTGSAMLEQIAMSDRYKLWVDT  
SEMFGGLDICAVKAVHGKDGKDYIFEVMDCSMPLIGEHHQVEDRQLITELVISKMNQLLSR  
TPALSPQRPLTTQPPQSGTLKDPDSSKTPPQRPQPQGGPGQPQGMQPPGKVLPPRRLPPG  
PSLPPSSSSSSSSSSAPQRPGGPTTHGDAPSSSSSLAEAPPLAAPPQKPQPHPQLNKS

QSLTNAFSFSESSFFRSSANEDEAKAETIRSLRKSFASLFSD

>sp|Q43776|SYNC\_HUMAN Asparagine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=NARS PE=1 SV=1

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWNVISK  
SQLKNIKKMWHREQMKSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGAL  
EGYRGQRVKVFGVWHRLRRQGKNLMFLVLRDGTGYLQCVLADELCCYNGVLLSTESSVA  
VYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEESDVDVQLNNRHMMIRGE  
NMSKILKARSMVTRCFRDHFFDRGYEVTPTLVQTQVEGGATLFKLDYFGEEAFLTQSS  
QLYLETCLPALGDVFCIAQSYRAEQSRTTRHLAEYTHVEAECPFLTDDLLNRLEDLVCD  
VVDRILKSPAGSIVHELNPFPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIP  
EAPERLMTDTINEPILLCRFPVEIKSFYMQRCPEDSRLTESVDVLMNVGEIVGGSMRIF  
DSEELAGYKREGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLTWILNRYHIRDVCCLYP  
RFVQRCTP

>sp|Q8NF91|SYNE1\_HUMAN Nesprin-1 OS=Homo sapiens GN=SYNE1 PE=1 SV=4

MATSRGASRCPRDIANVMQRLQDEQEIYQKRTFTKWINSHLAKRKPPMVDDLFEDMKDG  
VKLLALLEVLGGKLPCEQGRRMKRIHAVANIGTALKFLEGRKIKLVNINSTDIADGRPS  
IVLGLMWITILYFQIEELTSNLPQLQSLSSASSVDSIVSSETSPPSKRKVTTKIQGNA  
KKALLKVVQYTAGKQGTIEVKDFGKSWRSGVAFHSVIAIRPELVDELTVKGRSNRENLE  
DAFTIAETELGIPRLDPEDVDVDPDEKSIMTYVAQFLKHYPDIHNASTDGQEDDEILP  
GFPSFANSVQNFKREDRVIKEMKVWIEQFERDLTRAQMVESNLQDKYQSFKHFRVQYEM  
KRKQIEHLIQPLHRDGKLSLDQALVKQSWDRVTSRLFDWHIQLDKSLPAPLGTIGAWLYR  
AEVALREEITVQQVHEETANTIQRKLEQHKDLLQNTDAHKRAFHEIYRTRSVNGIPVPPD  
QLEMAERFHFVSSTSELHLMKMEFLELKYRLLSLLVLAESKLKSWIIKYGRRESVEQLL  
QNYVSFIENSKFFEQYEVTYQILKQTAEMYVKADGSVEEAENVKFMNETTAQWRNLSVE  
VRSVRSMLEEVISNWDYRGNTVASLQAWLEDAEKMLNQSENAKKDFFRNLPHWIIQHTAM  
NDAGNFLIETCDENVSRDLKQQLLLNNGRWRELFMEVKQYQAQADMDRMKEYTDCVVTL  
SAFATEAHKKLSEPLEVSFMNVKLLIQDLEDIEQRVPVMDAQYKIITKTAHLITKESPQE  
EGKEMFATMSKLEQLTKVKECYSPLLYESQQLIPLLEELEKQMTSFYDSLKGKINEIITV  
LEREAQSSALFKQKHQELLACQENCKKTLTLEKGSQSVQKFVTLNVLKHFQTRLQRQ  
IADIHVAFQSMVKKTDGDKKHVETNSRLMKKFESRAELEKVLRIAEGLEEKGDPEELL  
RRHTEFFSQLDQRLNAFLKACDELTDILPEQEQQGLQEA VRKLHKQWKDLQGEAPYHLL  
HLKIDVEKNRFLASVEECRTELDRETKLMPQEGSEKIIKEHRVFFSDKGPHHLCEKRLQL  
IEELCVKL PVRDPVRDTPGTCHVTLRELRAAIDSTYRKL MEDPKWKDYTSRFSEFSSWI  
STNETQLKGIGKEAIDTANHGEVKRAVEEIRNGVTKRGETLSWLKSRLKVLTEVSSENEA  
QKQGD ELAKLSSSFKALVTLLSEVEKMLSNFGDCVQYKEIVKNSLEELISGSKEVQEQA  
KILDTENLFEAQQLLLHHQKTKRISAKKRDVQQQIAQAQQGEGGLPDRGHEELRKLEST  
LDGLERSRERQERRIQVTLRKWERFETNKETVVRYLFTGTSSHERFLSFSSLESLSSELE  
QTKEFSKRTEIAVQAENLVKEASEIPLGPQNKQLLQQQAKSIKEQVKKLEDTLEEDIKT  
MEMVKTKWDHFGSNFETLSVWITEKEKELNALETSSSAMDMQISQIKVTIQEIESKLSSI  
VGLIEEEAQSAQFVTGTGESARIKAKLTQIRRYGEELREHAQCLEGTILGHL SQQQKFEEN  
LRKIQSVSEFEDKLAVPIKICSSATETYKVLQEHMDLCQALESLSAITAFSASARKVV  
NRDSCVQEAALQQQYEDILRRAKERQTALENLLAHWQRLEKELSSFLTWLERGEAKASS  
PEMDISADRVKVEGELQLIQALQNEVVSQASFYSKLLQLKESLFSVASKDDVKMMKLHLE  
QLDERWRDLPQIINKRINFLQSVVAEHQQFDELLLSFSVWIKLFLSELQTTSEISIMDHQ

VALTRHKDHAAEVESKKGELQSLQGHLAKLGS LGRAEDLHLLQGKAEDCFQLFEEASQVV  
ERRQLALSHLAEFLQSHASLSGILRQLRQTVEATNSMNKNESDLIEKDLNDALQNAKALE  
SAAVSLDGILSKAQYHLKIGSSEQRTSCRATADQLCGEVERIQNLLGTKQSEADALAVLK  
KAFQDQKEELLKSIEDIEERTDKERLKEPTRQALQQRLRVFNQLEDELNSHEHELCWLKD  
KAKQIAQKDVAFAPVDREINRLEVTWDDTKRLIHENQQGCCGLIDLMREYQNLKSAVSK  
VLENASSVIVTRTTIKDQEDLKWAFSKHETAKNKMNYKQKDLNFTSKGKHLSELKKIH  
SSDFS LVKTDMESTVDKWL DVSEKLEENMDRLRVSLSIWDDVLSTRDEIEGWSNNCVPQM  
AENISLNDNHLRAEELLKEFESEVKNKALRLEELH SKVNDLKELTKNLETPPDLQFIEAD  
LMQKLEHAKEITEVAKGTLKDFTAQSTQVEKFINDITTWFTKVEESLMNCAQNETCEALK  
KVKDIQKELQSQQSNISSTQENLNSLCRKYHSAELES LGRAMTGLIKKHEAVSQLCSKTQ  
ASLQESLEKHFSESMQEFQEWFLGAKAAAKESSDRTGDSKVLEAKLHDLQNLDSVSDGQ  
SKLDAVTQEGQTL YAHLSKQIVSSIQEQITKANE EFQAF LKQCLKDKQALQDCASELGSF  
EDQHRKLN LWIHEMEERFNTENLGESKQHIPEKKNEVHKVEMFLGELLAARES LDKLSQR  
GQLLSEEGHGAGQEGRLCSQLLTSHQNL LRM TKEKL RSCQVALQEHEALEEALQSMWFWV  
KAIQDRLACAESTLGSKDTLEKRLSQIQDILLMKGEGEVKLNMAIGKGEQALRSSNKEGQ  
RVIQTQLETLKEVWADIMSSSVHAQSTLESVISQWNDYVERKNQLEQWMESVDQKIEHPL  
QPQPGLKEKFVLLDHLQ SILSEADHTRALHRLIAKSRELYEKTEDESFKDTAQEELKTQ  
FNDIMTVAKEKMRKVEEIVKDHLMYLD AVHEFTDWLHSAKEELHRWSDMSGDSSATQKKL  
SKIKELIDSREIGASRLSRVESLAPEVKQNTTASGCELMHTEMQALRADWKQWEDSVFQT  
QSCLENLVSQMALSEQEFSGQVAQLEQALEQFSALLKTWAQQLTLLEGKNTDEEIVECWH  
KGQEILDALQKAEPRTDLKSQNL ECRFSRDLSTYSGKVSGLIKEYNCLCLQASKGCQN  
KEQILQQRFRKAFRDFQQWLVNAKIT TAKCFDIPQNI SEVSTSLQKIQEFLSESENGQHK  
LNMMLSKGELLSTLLTKEKAKGIQAKVTA AKEDWKNFHSNLHQKESALENLKI QMKDFEV  
SAEPIQDWLSKTEKMVHESSNRLYDLP AKRREQQKLQSVLEEIH CYEPQLNRLKEKAQQL  
WEGQAASKSFRHRVSQLSSQYLALSNLTKEKVSRLDRIVA EHNQFSLG IKELQDWM TDAI  
HMLDSYCHPTSDKSVLDSRTLKLEALLSVKQEKEIQMKMI VTRGESVLQNTSPEGIPTIQ  
QQQLQSVKDMWASLLSAGIRCKSQLGALS KWTSYQDGV RQFSGWMDSM EANLNESERQHA  
ELRDKTTMLGKAKLLNEEVLSYSSLLETIEVKGAGMTEHYVTQLELQDLQERYRAIQERA  
KEAVTKSEKLVRLHQEYQRDLKAFEVWLGQE QEKLDQYSVLEGDAHTHETTLRDLQELQV  
HCAEGQALLNSVLHTREDVIPSGIPQAEDRALES LRQDWQAYQHRLSETRTQFNNV VNKL  
RLMEQKFQQVDEWLKTAEEKVSPRTRRQSNRATKEIQLHQM KKWHEEVTAYRDEVEEVGA  
RAQEILDESHVNSRMGCQATQLTSRYQALLQVLEQIKFLEEIQSLEESLSSYS DW  
YGSTHKNFKNVATKIDKVDTVMMGKKLKTLEVLLKDM EKGHSLLSAREKGERAVKYLEE  
GEAERLRKEIHDHMEQLKELTSTVRKEHMTLEKGLHLAKEFSDKCKALTQWIAEYQEILH  
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SYEGPTAEVVEVSAGGDLQAASPTGASRSVRHVTLGPGQSPLSREVI FLGPAPACPEAW  
GSPEPGAESSADMDSGRHSTFGCRQFHAEKEIIFQGPISAAGKVGDFATEESVGTQT  
SVRQLQLGPKEGFSGQIQFTAPLSDKVELGVIGDSVHMEGLPGSSTSIRHISIGPQRHQT  
TQQIVYHGLVPQLGESGDSESTVHGEGSADVHQATHSHTSGRQTMTEKSTFQSVVSESP  
QEDSAGDTSGAEMTSGVSRFRHIRLGPTETETSEHIAIRGPVSRTFVLGASADSPELGK  
LADSSRTLRIAPGPKETSFTFQMDVSNVEAIRSRTQEAGALGVSDRGSWRDADSRNDQA  
VGVSFKASAGEGDQAHREQKEQAMFDKKVQLQRMVDQRSVISDEKKVALLYLDNEEEEN  
DGHWF

>sp|Q9H7V2|SYNG1\_HUMAN Synapse differentiation-inducing gene protein 1 OS=Homo sapiens  
GN=SYNDIG1 PE=1 SV=1

MDGIIIEQKSMVLVHISKISDAGKRNLINTRNLMAESRDGLVSVYPAPQYQSHRVGASTVPA

SLDSSRSEPMQQLDPNTLQQSVESRYRPNIILYSEGLRSWGDGVAADCCETTFIEDRS  
PTKDSLEYPDGKFIDLSADDIKIHTLSYDVEEEEFQELESYSSDTESEDNFLMPPRD  
HLGLSVFSMLCCFWPLGIAAFYLSHETNKAVAKGDLHQASTSSRRALFLAVLSITIGTV  
YVGVAVALIAYLSKNNHL

>sp|043426|SYNJ1\_HUMAN Synaptojanin-1 OS=Homo sapiens GN=SYNJ1 PE=1 SV=2

MAFSKGFRIYHKLDPPPFSLIVETRHKEECLMFESGAVAVLSSAEKEAIKGTYSKVLDAY  
GLLGVLRLNLGDTMLHYLVLTGCMSSVGKIQESEVFRVTSTEFISLRIDSSDEDRISEVR  
KVLNSGNFYFAWSASGISLDLSLNAHRSMQEQTTDNRFWNQSLHLHLKHYGVNCDDWLL  
RLMCGGVEIRTIYAAHKQAKACLSRLSCERAGTRFNVRGTNDGDHGVANFVETEQQVYLD  
DSVSSFIQIRGSVPLFWEQPLQVGSHRVRMSRGFEANAPAFDRHFRTLKNLYGKQIIVN  
LLGSKEGEHMLSKAFQSHLKASEHAADIQMVNFDYHQMVGKGAEKLSVLKPVQKFLD  
YGGFFYNGSEVQRCQSGTVRTNCLDCLDRTNVQAFLGLEMLAKQLEALGLAEKPLVTR  
FQEVFRSMWSVNGDSISKIYAGTGALEGGKAKLKDARSVTRTIQNNFFDSSKQEAIDVLL  
LGNTLNSDLADKARALLTTGSLRVSEQLQSASSKVLKSMCENFYKYSKPKKIRVCVGTW  
NVNGGKQFRSIAFNQTLTDWLLDAPKLAGIQEFQDKRSKPTDIFAIGFEEMVELNAGNI  
VSASTTNQKLWAVELQKTI SRDNKYVLLASEQLVGVCLFVFIRPQHAPFIRDVAVDTVKT  
GMGGATGNKGAVAIRMLFHTTSLCFVCSHFAAGQSQVKERNEDFIEIARKLSFPMGRMLF  
SHDYVFWCGDFNYRIDLPNEEVKELIRQQNWDSL IAGDQLINQKNAGQVFRGFLEGKVT  
APTYKYDLFSDDYDTSEKCRTPAWTDRVLWRRRKWPFDRSAEDLDLLNASFQDESKILYT  
WTPGTLHYGRAELKTS DHRPVVALIDIDIFEVEAEERQNIYKEVIAVQGGPDGTVLVSI  
KSSLPENNFDDALIDELLQQFASFGEVILIRFVEDKMWVTFLEGSSALNVLSLNGKELL  
NRTITIALKSPDWIKNLEEEMSLEKISIALPSSTSSTLLGEDAEVAADFMEGDVDDYSA  
EVEELLPPHLQPSSSSGLGTSPSSSPRTSPCQSPTISEGPVPSLP IRPSRAPSRTPGPPS  
AQSSPIDAQPATPLPQKDPAPLEPKRPPPPRPVAPPTRAPPQRPPPPSGARSPAPTRK  
EFGGIGAPPSPGVARREMEAPKSPGTTTRKDNIGRSQSPQAGLAGPGPAGYSTARPTIPP  
RAGVISAPQSHARASAGRLTPESQSKTSETSKGSTFLPEPLKPQAAFPQSSLPQAQRL  
QEPLVPVAAPMPQSGPQPNLETPPQPPPSRSSHSLPSEASSQPQVKTNGISDGKRESPL  
KIDPFEDLSFNLLAVSKAQLSVQTSVPVTPDPKRLIQLPSATQSNVLSSVSCMPTMPPIP  
ARSQSQENMRSSPNPFI TGLTRTNPFSDRTAAPGNPFRAKSESEATSWFSKEEPVTISP  
FPSLQPLGHNKSRASSSLDGFKDSFDLQGGSTLKI SNPKGWVTFEEEEDFGVKGKSKSAC  
SDLLGNQPSSFSGSNLTLNDDWNKGTVSFCVLPSRRPPPPVPVLLPPGTSPVPDPFTTL  
ASKASPTLDFTER

>sp|Q96I59|SYNM\_HUMAN Probable asparagine--tRNA ligase, mitochondrial OS=Homo sapiens  
GN=NARS2 PE=1 SV=3

MLGVRCLLSRVFCSSAPFPKHKPSAKLSVRDALGAQNASGERIKIQGWIRSVRSQKEVL  
FLHVDGSSLESQVVADSGLDSRELNFGSSVEVQQLIKSPSKRQNVELKAEEKIKVIGN  
CDAKDFPIKYKERHPLEYL RQYPHFRCRTNVLSILRIRSEATAAIHSFFKDSGFVHIHT  
PIITSNDSEGAGELFQLEPSGKLKVPENFFNVPAFLTVSGQLHLEVMSGAFTQVFTFGP  
TFRAENSQSRRHLAEFYMIEAEISFVDSLQDLMQVIEELFKATTMMVLSKCPEDVELCHK  
FIAPGQKDRLEHMLKNNFLIISYTEAVEILKQASQNFTFTPEWGADLRTEHEKYL VKHCG  
NIPVFVINYPLTLKPFYMRDNEDGPQHTVAAVDLLVPGVGELFGGGLREERYHFLEERLA  
RSLGTEVYQWYLDLRRFGSVPHGGFGMGFERYLQCILGVDNIKDVIPFRPHSCLL

>sp|P08247|SYPH\_HUMAN Synaptophysin OS=Homo sapiens GN=SYP PE=1 SV=3

MLLLADMVNVNLVAGGQFRVVKPEPLGFVKVLQWVFAIFAFATCGSYSSELQSVDCANK

TESDLSIEVEFEYFRLHQVYFDAPTCRGGTTKVFLVGDYSSSAEFFVTAVFAFLYSMG  
ALATYIFLQNKYRENNKGPMDFLATAVFAFMWLVSSSAWAKGLSDVKMATDPENI IKEM  
PVC RQTGNTCKELRDPVTSGLNTSVVFGFLNLVLWVGNLWFVFKETGWAAPFLRAPPGAP  
EKQPAPGDAYGDAGYQGPGGYPQDSYGPQGGYQPDYGGQPAGSGGSGYGPQGDYGGQGY  
GPQGAPTSFSNQM

>sp|Q16563|SYPL1\_HUMAN Synaptophysin-like protein 1 OS=Homo sapiens GN=SYPL1 PE=1 SV=1  
MAPNIYLVRQRISRLGQRMSGFQINLNPLKEPLGFIKVLEWIASIFAFATCGGFKGQTEI  
QVNCPPAVTENKTVTATFGYPFRLNEASFQPPPGVNICDVNWKDYVLIGDYSSSAQFYVT  
FAVFVFLYCIAALLLYVGYTSLYLDNRKLPIDFVVTLVATFLWLSTSAWAKALTDIKI  
ATGHNIIDELPPCKKKAVLCYFGSVTSMGSLNVSIVFGFLNMILWGGNAWFVYKETSLS  
PSNTSAPHSQGGIPPTGI

>sp|Q7L3T8|SYPM\_HUMAN Probable proline--tRNA ligase, mitochondrial OS=Homo sapiens  
GN=PARS2 PE=1 SV=1

MEGLLTRCRALPALATCSRQLSGYVPCRHHCAPRRGRRLLSRVFQPQNLREDRVLSLQ  
DKSDDLTKCSQRLMLQVGLIYPASPGCYHLLPYTVRAMEKLVRVIDQEMQAIGGQKVNMP  
SLSPAELWQATNRWDLMGKELLRLDRHGKEYCLGPTHEEAITALIASQKKLSYKQLPFL  
LYQVTRKFRDEPRPRFGLLRGREFYMKDMYTFDSSPEAAQQTYSLVCDAYCSLFNKLGLP  
FVKVQADVGTIGTGSHEFQLPVDIGEDRLAICPRCSFSANMETLDLSQMNC PACQGPLT  
KTKGIEVGHTFYLGTYSSIFNAQFTNVCGKPTLAEMGCYGLGVTRILAAAIEVLSTEDC  
VRWPSLLAPYQACLI PPKKGSKEQAASELIGQLYDHITEAVPQLHGEVLLDDRTHLTIGN  
RLKDANKFGYPFVIIAGKRALEDPAHFEVWCQNTGEVAFITKDGVMDDLTPVQTV

>sp|P54136|SYRC\_HUMAN Arginine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=RARS PE=1  
SV=2

MDVLVSECSARLLQEEEEIKSLTAEIDRLKNCGCLGASPNEQLQEENLKLKYRLNLRK  
SLQAERNKPTKNMINIISRLQEVFGHAIIKAAYPDLENPPLLVTSPQAKFGDYQCNSAMG  
ISQMLKTKEQKVNPREIAENITKHLDPNECIEKVEIAGPGFINVHLRKDFVSEQLTSLLV  
NGVQLPALGENKKVIVDFSSPNIAKEMHVGHLRSTIIIGESISRLFEFAGYDVLRLNHVGD  
WGTQFGMLIAHLQDKFPDYLTVPPIGDLQVFYKESKKRFDTEEEFKKRAYQCVVLLQGK  
NPDITKAWKLICDVSRELNKIYDALDVSLIERGESFYQDRMNDIVKEFEDRGFVQVDDG  
RKIVFVPGCSIPLTIVKSDGGYTYDTSDLAAIKQRLFEEKADMIIVVDNGQSVHFQTIF  
AAQMIGWYDPKVTRVFHAGFGVVLGEDKKKFKTRSGETVRLMDLLGEGLKRSMDKLKEK  
ERDKVLTAELNAAQTSVAYGCIKYADLSHNRLNDYIFSFDKMLDDRGN TAAYLLYAFTR  
IRSIARLANIDEEMLQKAARETKILLDHEKEWKLGRCILRFPEILQKILDDLFLHTLCDY  
IYELATAFTEFYDSCYCVEKDRQTGKILKVNMRMLLCEAVAAMAKGFDILGIKPVQRM

>sp|Q8N2H4|SYS1\_HUMAN Protein SYS1 homolog OS=Homo sapiens GN=SYS1 PE=1 SV=1  
MAGQFRSYVWDPLLILSQIVLMQTVYYGSLGLWLALVDGLVRSSPSLDQMFD AEILGFST  
PPGRLSMMSFILNALTALGLLYFIRRGKQCLDFTVTTVHFFHLLGCWFYSSRFPSALTWW  
LVQAVCIALMAVIGEYLCMRTELKEIPLNSAPKSNV

>sp|Q17RD7|SYT16\_HUMAN Synaptotagmin-16 OS=Homo sapiens GN=SYT16 PE=1 SV=2  
MVLAMASQDVQNFFQPFSSWISRVYEALQQAGDMLSASLVNISKQDSKLSDKLDQDLN  
QIQETYFEDEEQDNDWSQEDANS LFLEVDHFSCCNSDLQDSAQNSSPSLSQHAKDSCSTM  
SQWPNWASDDRKLPHVLSSIAEEHHLEKQRSGLQHGFDSQLPGTLETVNGKKQVNSFGD  
DEELSTSSDSDEEVIKQFEISVSRSQSFRSVTSEKKGQTGLEQKPKFSRSLTHGEDGTE  
VSACEDLDGASQRRYSENLSYGEDDHIPAHSQSPCERGD AKHHGTSHQESSVVQSLRRQS

TEGSLEMETAFNSRGFEDSYATDSSSMWSPEEQDRTNLQVPSGVSEPISKCGDLDFIFEY  
RAASQKLTVTIVRAQGLPDKDRSGVNSWQVHVLLPGKKHRGRTNIQRGPNPVFREKVTF  
AKLEPRDVAACAVRFRLYAARKMTRERMMGEKLFYLSHLHPEGEMKVTLVLEPRSNISSG  
GSPLSPSAVSHSDSTSSTQSLSHGGAPELLVGLSYNATTGRLSVEMIKGSHFRNLAVNRA  
PDTYGKLFLLNSVGQEMSCKTSIRRGQPNPVYKETFFVFQVALFQLSDVTLMISVYNRRT  
MKRKEMIGWIALGQNSSGEEEQDHWEEMKETKGQQICRWHTLLES

>sp|Q9H2B2|SYT4\_HUMAN Synaptotagmin-4 OS=Homo sapiens GN=SYT4 PE=1 SV=1

MAPITTSREEFDEIPTVVGIFSAFGLVFTVSLFAWICQQRKSSKSNKTPPYKFVHVLKGV  
DIYPENLNSKKKFGADDKNEVKNKPAVPKNSLHLDLEKRDNLGNFPKTNLKPGSPSDLEN  
ATPKLFLEGEKESVSPELSKSSLTSEEKQEKLGTLFFSLEYNFERKAFVVNIKEARGL  
PAMDEQSMSTDPYIKMTILPEKKHKVKTTRVLKTLDPAFDETFTFYGIPYTQIQELALHF  
TILSFRDRSRDDIIGEVLIPLSGIELSEGKMLMNREIIKRNVRKSSGRGELLISLCYQST  
TNTLTVVVLKARHLPKSDVSGLSDPYVKVNLHAKKRISKKKTHVKKCTPNAVFNELFVF  
DIPCEGLEDISVEFLVLDSEGRSRNEVIGQLVLGAAAEGTGGEHWKEICDYPRRQIAKWH  
VLC DG

>sp|076070|SYUG\_HUMAN Gamma-synuclein OS=Homo sapiens GN=SNCG PE=1 SV=2

MDVFKKGFSIAKEGVGAVEKTKQGVTEAAEKTKEGVMYVGAKTKENNVQSVTSVAEKT  
EQANAVSEAVSVNTVATKTVEEAENIAVTSGVVRKEDLRPSAPQGEASKEKEEVAE  
EAQSGGD

>sp|Q8WV15|T255B\_HUMAN Transmembrane protein 255B OS=Homo sapiens GN=TMEM255B PE=2 SV=1

MQPPVPGPLGLLDPAEGLSRRKTSLSWFGSLLLVSVLIVTVGLAATRTENVTVGGYYP  
GIILGFGSFLGIIGINLVENRRQMLVAAIVFISFGVAAAFCCAIVDGVFAAQHIEPRPLT  
TGRCQFYSSGVGYLYDVYQTEVTCHSLDGKCKLKVRSNTCYCCDLYACGSAEPSPAYYEF  
IGVSGCQDVLHLYRLLWASAVLNLVGLFLGIITA AVLGA FKDMVPLSQLAYGPAVPPQTL  
YNPAQQILAYAGFRLTPEPVPTCSSYPLPLQPCSRFPVAPSSALASSEDLPSPSPSSSGS  
GLPGQAPPCYAPTYFPPGEKPPPYAP

>sp|P59542|T2R19\_HUMAN Taste receptor type 2 member 19 OS=Homo sapiens GN=TAS2R19 PE=2  
SV=1

MMCFLLISSILVVFVFLGNVANGFIALVNVIDWVNRKISSAEQILTALVVSRIGLLW  
VMLFLWYATVFNSALYGLEVRIVASNAWAVTNHFSMWLAASLSIFCLLKIANFSNLISLH  
LKKRIKSVVLVILLGPLVFLICNLAVITMDERVWTKEYEGNVTWKIKLRNAIHLSSLTVT  
TLANLIPFTLSLICFLLLICSLCKHLKKMRLHSGKSQDPSTKVHIKALQTVTSFLMLFAI  
YFLCIITSTWNLRQQSKLVLLCQTVAIMYPSFHSFILIMGSRKCLKTFLSVLWQMTR

>sp|P59534|T2R39\_HUMAN Taste receptor type 2 member 39 OS=Homo sapiens GN=TAS2R39 PE=2  
SV=3

MLGRCFPDPDTKEKQQLRMTKLCDPAESELSPFLITLILAVLLAEYLIGIIANGFIMAIHA  
AEWVQNKAVSTSGRILVFLSVSRIALQSLMMLEITISSTLSFYSEDAVYYAFKISFIFL  
NFCSLWFAAWLSFFYFVKIANFSYPLFLKLRWRITGLIPWLLWSVFISFSHSMFCINIC  
TVYCNSFPIHSSNSTKKTYLSEINVGLAFFFNLGIVTPLIMFILTATLLILSLKRHTL  
HMGSNATGSNDPSMEAHMGAIKAISYFLILYIFNAVALFIYLSNMFIDINSLWNNLCQIIM  
AAYPASHSILLIQDNPGLRRAWKRLQLRLHLYPKEWTL

>sp|P59535|T2R40\_HUMAN Taste receptor type 2 member 40 OS=Homo sapiens GN=TAS2R40 PE=2  
SV=1

MATVNTDATDKDISKFVFTLVVSGIECITGILGSGFITAIFYGAEWARGKTLPTGDRIM

LMLSFSRLLLQIWMMLNIFSLFRIVYNQNSVYILFKVITVFLNHSNLWFAAWLKVFYC  
LRIANFNHPLFFLMKRKIIIVLMPWLLRLSVLSLFSFPLSRDVFNVVNSSIPISSNS  
TEKKYFSETNMVNLVFFYNMGIFVPLIMFILAATLLILSLKRHTLHMGSNATGSRDPSMK  
AHIGAIAKATSYFLILYIFNAIALFLSTSNIFDTYSSWNILCKIIMAAYPAGHSVQLILGN  
PGLRRAWKRFQHQVPLYLKQTL

>sp|P59536|T2R41\_HUMAN Taste receptor type 2 member 41 OS=Homo sapiens GN=TAS2R41 PE=2  
SV=2

MQAALTAFVLLFSLLSLLGIAANGFIVLVLGREWLRYGRLLPLDMILISLGASRFCLQL  
VGTVHNFYYSQAQVEYSGGLGRQFFHLHWHFLNSATFWFCSWLSVLCVKIANITHSTFL  
WLKWRFPGWVPWLLGSLVISFIITLLFFWVNPVYQEFILIRKFSGNMTYKWNTRIETYY  
FPSLKLVIWSIPFSVFLVSIMLLINSLRRHTQRMQHNGHSLQDPSTQAHTRALKSLISFL  
ILYALSFLSLIIDAAKFISMQNDIFYWPWQIAVYLCISVHPFILIFS NLKLRSVFSQLLLL  
ARGFWVA

>sp|Q7RTR8|T2R42\_HUMAN Taste receptor type 2 member 42 OS=Homo sapiens GN=TAS2R42 PE=2  
SV=1

MATELDKIFLILAIIEFIISMLGNVFIGLVNCSEGIKNQKVFSADFILTCLAISTIGQLL  
VILFDSFLVLGLASHLYTTYRLGKTVIMLWHMTNHLTTWLATCLSIFYFFKIAHFPHSLFL  
WLRWRMNGMIVMLLILSLFLLIFDSLVEIFIDISLNIIDKSNLTLYLDESKTYDKLSI  
LKTLLSLTSFIPFSLFLTSLFLFLSLVRHTRNLKSSLGSRDSSTEAHRRAMKMVMSFL  
FLFIVHFFSLQVANGIFFMLWNNKYIKFVMLALNAFPSCHSFILILGNSKLRQTAVRLLW  
HLRNYTKTPNALPL

>sp|P59537|T2R43\_HUMAN Taste receptor type 2 member 43 OS=Homo sapiens GN=TAS2R43 PE=2  
SV=2

MITFLPIIFSSLVVVTFVIGNFANGFIALVNSIEWFKRQKISFADQILTALAVSRVGLLW  
VLLLNWYSTVLNPAFNSVEVRTTAYNIWAVINHFSNLATLSIFYLLKIANFSNFIFLH  
LKRRVKSVILVMLGPLLFLACHLFVINMNEIVRTKEFEGNMTWKIKLSAMYFSNMTVT  
MVANLVPFTLTLLSFMLLICSLCKHLKMKQLHGKGSQDPSTKVHIKALQTVISFLLCAI  
YFLSIMISVWSFGSLENKPVFMFCKAIRFSYPSIHPFILIWGNKKLKTFLSVFWQMRYW  
VKGEKTSSP

>sp|P59544|T2R50\_HUMAN Taste receptor type 2 member 50 OS=Homo sapiens GN=TAS2R50 PE=2  
SV=2

MITFLYIFFSILIMVLFVLGNFANGFIALVNFIDWVKRKKISSADQILTALAVSRIGLLW  
ALLLNWYLTVLNPAFYSELRTSYNAWVVTNHFSMWLAANLSIFYLLKIANFSNLLFLH  
LKRRVRSVILVILLGTLIFLVCHLLVANMDESMWAEYEGNMTGKMKL RNTVHLSYLTVT  
TLWSFIPFTLSLISFLMLICSLCKHLKMKQLHGEQSQDLSTKVHIKALQTLISFLLCAI  
FFFLIVSVWSPRRLNDPVMVSKAVGNIYLA FDSFILIWRTKKLKHTFLLILCQIRC

>sp|Q96CE8|T4S18\_HUMAN Transmembrane 4 L6 family member 18 OS=Homo sapiens GN=TM4SF18  
PE=2 SV=1

MGSRKCGGCLSCLLIPLALWSIIVNILLYFPNGQTSYASSNKL TNYVWYFEGICFSGIMM  
LIVTTVLLVLENNNNYKCCQSENC SKKYVTLLSIIFSSLGIAFSGYCLVISALGLVQGPY  
CRTLDGWEYAFEGTAGRFLTDSSIIWQCLEPAHVVEWNIILFSILITLSGLQVIICLIRV  
VMQLSKILCGSYSVIFQPGII

>sp|075410|TACC1\_HUMAN Transforming acidic coiled-coil-containing protein 1 OS=Homo  
sapiens GN=TACC1 PE=1 SV=2

MAFSPWQILSPVQWAKWTWSAVRGAAGEDEAGGPEGDPPEEDSQAETKSLSFSSDSEGN  
FETPEAETPIRSPFKESCDPSLGLAGPGAKSQESQEADEQLVAEVVEKCSSKTCSEKPSN  
EVPQQAIDSHSVKNFREEPEHDFSKISIVRPFSIETKDSTDISAVLGTAAHGCVTAVSG  
KALPSSPPDALQDEAMTEGSMGVTLASAEADLKAGNSCPVLPSRRSKLRKPKVPLRK  
KAIGGEFSDTNAAVEGTPLPKASYHFSPEELDENTSPLLGDARFQKSPDLKETPGTLSS  
DTNDSGVELGEESRSSPLKLEFDFTEDTGNIEARKALPRKLGRKLGSTLTPKIQKDGISK  
SAGLEQPTDPVARDGPLSQTSKPDPSQWESPSFNPFGSHSVLQNSPPLSSEGSYHFDPD  
NFDESMDFPKPTTTLTSSDFCSPTGNHVNEILESPPKAKSRLITSGCKVKKHETQSLALD  
ACSRDEGAVISQISDISNRDGHATDEEKLASTSCGQKSAGAEVKGEPEEDLEYFECSNVP  
VSTINHAFSSSEAGIEKETCQKMEEDGSTVLGLLESSAEKAPVSVSCGGESPLDGICLSE  
SDKTAVLTLIREEIIITKEIEANEWKKYEETRQEVLEMRKIVAIEYEKTIQMIEDEQRTS  
MTSQKSFQQLTMEKEQALADLNSVERSLSDLFRRYENLKGVLGFKKNEEALKKCAQDYL  
ARVKQEEQRYQALKIHAEKLDKANEEIAQVRTKAKAESAAHLHAGLRKEQMKVESLERAL  
QQKNQEIEELTKICDELIAGLGKTD

>sp|P09758|TACD2\_HUMAN Tumor-associated calcium signal transducer 2 OS=Homo sapiens  
GN=TACSTD2 PE=1 SV=3

MARGPGLAPPPLRLPLLLLVLAAVTGHTAAQDNCTCPTNKMTCSPDGPGRQCRCRALGS  
GMAVDCSTLTSKCLLLKARMSAPKNARTLVRPSEHALVDNDGLYDPDCDPEGRFKARQCN  
QTSVCWCVNSVGVRRTDKGDLRLCDELVRTHHILIDLHRPTAGAFNHSDLDAELRRLF  
RERYRLHPKFVA AVHYEQPTIQIELRQNTSQKAAGDVDIGDAAYYFERDIKESLFGGRG  
GLDLRVRGEPLQVERTLIYYLDEIPPKFSMKRLTAGLIAVIVVVVALVAGMAVLVITNR  
RKSGKYKKVEIKELGELRKEPSL

>sp|Q9BSH4|TACO1\_HUMAN Translational activator of cytochrome c oxidase 1 OS=Homo sapiens  
GN=TACO1 PE=1 SV=1

MSAWAAASLSRAARCLLARGPGVRAAPRPDRPSHPEPRGCGAAPGRTLHFTAAPVAGH  
NKWSKVRHIKGPKDVERSRIFSKLCLNIRLAVKEGGPNPEHNSNLNILEVCRSKHMPKS  
TIETALKMEKSKDTYLLYEGRGPGSSLLIEALSNSSHKCQADIRHILNKNGGVMAVGAR  
HSFDKKGVIVVEVEDREKKAVNLERALEMAIEAGAEDVKETEDDEERNVFKFICDASSLH  
QVRKKLDSLGLCSVSCALEFIPNSKVQLAEPDLEQAAHLIQALSNHEDVIHVYDNIE

>sp|075528|TADA3\_HUMAN Transcriptional adapter 3 OS=Homo sapiens GN=TADA3 PE=1 SV=1

MSELKDCPLQFHDKFSVDHLKVCPRYTAVLARSEDGIGIEELDTLQLELETLLSSASRR  
LRVLEAETQILTDWQDKKGRRLKLGRDHELGAAPPKHGKPKKQKLEGKAGHGPGPGPGR  
PKSKNLQPKIQEYFTDDPIDVPRIPKNDAPNRFWASVEPYCADITSEEVRTLEELLKPP  
EDEAEHYKIPPLGKHYSQRWAQEDLLEEQKDGAARAAVADKKKGLMGPLTELDTKDVDAL  
LKKSEAEHQEPEDGCPFGALTQRLQALVEENIISPMEDSPIPDMSGKESGADGASTSPR  
NQNKPFVSPHTKSLESRIKEELIAQGLESERPAEDSEDEVLAELRKRQAEKALSahn  
RTKKHDLRLAKEEVSQRQLRQVRMADNEVMDAFRKIMAAARQKKRTPTKKEKDQAWKTL  
KERESILKLLDG

>sp|Q15544|TAF11\_HUMAN Transcription initiation factor TFIID subunit 11 OS=Homo sapiens  
GN=TAF11 PE=1 SV=1

MDDAHESPSDKGGETGESDETAAPVPGDPGATD TDGIPEETDGDADVDLKEAAAEEGELES  
QDVSDLTTVEREDSSLLNPAKKLKIDTKEKKEKKQKQVDEDEIQKMILVSSFSEEQLNR  
YEMYRRSAFPKAAIKRLIQSITGTSVSNVVIAMSGISKVFVGEVVEEALDVCEKWGEMP  
PLQPKHMRFAVRRLKSKGQIPNSKHKKIIF

>sp|Q15573|TAF1A\_HUMAN TATA box-binding protein-associated factor RNA polymerase I subunit A OS=Homo sapiens GN=TAF1A PE=1 SV=1

MSDFSEELKGPVTDDEEVETSVLSGAGMHFPWLQTYVETVAIGGKRRKDFQAQTTSACLSF  
IQEALLKHQWQQAEEYMSYFQTLESDSYKRQAAPEIIWKLGSEILFYHPKSNMESFNT  
FANRMKNI GVMNYLKISLQHALYLLHHGMLKDAKRNLSAETWRHGENTSSREILINLIQ  
AYKGLLQYYTWSEKKMELSKLDKDDYAYNAVAQDVFNHSWKTSANISALIKIPGVWDPFV  
KSYVEMLEFYGDRDGAQEVLTNYAYDEKFPSNPNAHIYLYNFLKRQKAPRSKLISVLKIL  
YQIVPSHKLMLEFHTLLRKSEKEEHRKLGLEVLFGVLDFACTKNITAWKYLAKYLNIL  
MGNHLAWVQEEWNSRKNWWPGFHFYSYFWAKSDWKEDTALACEKAFVAGLLLGGCRYFRY  
ILKQDHQILGKKIKRMKRSVKKYSIVNPR

>sp|Q8IV04|TB10C\_HUMAN Carabin OS=Homo sapiens GN=TBC1D10C PE=1 SV=1

MAQALGEDLVQPPELQDDSSSLGSDSELSPGPYRQADRYGFIGGSSAEPGPGHPPADLI  
RQREMKWVEMTSHWEKTMSRRYKVKMQCRKGIPSA LRARCWPLLCGAHVCQKNSPGTYQ  
ELAEAPGDPQWMETIGRDLHRQFPLHEMFVSPQGHGQGLLQVLKAYTLRPEQGYCQAQ  
GPVAAVLLMHLPEEAFWCLVQICEVYLPGYGPHMEAVRLDAEVFALLRRLPHVHKH  
LQQVGVGPLLYLPEWFLCLFARSLPFPTVLRVWDAFLSEGARVLFVRGLTLVRLALGTAE  
QRGACPLLETGALRAIPPAQLQEEAFMSQVHSVLSERDLQREIKAQLAQLPDSAPGP  
PPRPQVRLAGAAIFEAQQLAGVRRGAKPEVPRIVVQPPEEPRPPRRKPQTRGKTFHGLL  
TRARGPPIEGPPRPQRGSTSFLDTRF

>sp|P68366|TBA4A\_HUMAN Tubulin alpha-4A chain OS=Homo sapiens GN=TUBA4A PE=1 SV=1

MRECISVHVGGAGVQMGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSTTFFCETGAGK  
HVPRAVFVDLEPTVIDEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLD  
RIRKLSDQCTGLQGFLVFHSFGGGTSGGFTSLLMERLSVDYGKKSKEFSIYPAPQVSTA  
VVEPYNSILTTHTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLRLISQIVSSITA  
SLRFDGALNVDLTEFQTNLPYPRIHFPATYAPVISA EKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYMACL LLYRGDVVPKDVNAIAAIKTKRSIQFVDWCPTGFKVGINYQPP  
TVVPGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDL MYAKRAVHVWYVGEEMEEGEFSE  
AREDMAALEKDYEEVGIDS YEDEDEGEE

>sp|Q96M53|TBATA\_HUMAN Protein TBATA OS=Homo sapiens GN=TBATA PE=2 SV=3

MATDVQLADYPLMSPKAELKLEKSGRKPRSPRDSGPQKELVIPGIVDFERIRRALRTPK  
PQTPGTYCFGRSLSHHSFFSRHHPHQHVTHIQDLTGKPV CVVRDFPAPLPSTVFGSCQM  
GIPTISVPIGDPQSNRNPLSSEAWKKELKELASRVAFLTKEDELKKKEKEQKEEPLREQ  
GAKYSAETGRLIPASTRAVGRRRSHQGQSQSSSRHEGVQAFLLDQELLVLELLCRILE  
TDLLSAIQFWLLYAPPKEKD LALGLLQTAVAQLLPQPLVSIPTEKLLSQLPEVHEPPQEK  
QEPPCSQSPKKT KISPFTEKSEKPEYIGEAQVLQMHSSQNTTEKTSKPRAES

>sp|Q9HCS7|SYF1\_HUMAN Pre-mRNA-splicing factor SYF1 OS=Homo sapiens GN=XAB2 PE=1 SV=2

MVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERA  
LKLLPCSYKLWYRYLKARRAQVKHRCVTDPAVEDVNNCHERAFVFMHKMPRLWLDYCQFL  
MDQGRVTHTRTFDRALRALPITQHSRIWPLYLRF LRSHPLPETAVRGYRRFLKLSPEA  
EEYIEYLKSSDRLDEAAQRLATVVNDERFVSKAGKSNYQLWHELCDLISQNPDKVQSLNV  
DAIIRGGLTRFTDQLGKLWCSLADYYIRSGHF EKARDVYEEAIRTVM TVRDFTQVFDSYA  
QFEESMIAAKMETASELGREEEDVDLELRARFEQLISRRPLLLNSVLLRQNP HHVHEW  
HKRVALHQGRPREIINTYTEAVQTVDPFKATGKPHTLWVAFK FYEDNGQLDDARVILEK  
ATKVNFKQVDDLASVWCQCGELELRHENYDEALRLLRKATALPARRAEYFDGSEPVQNRV



YKSLKVWSMLADLEESLGTQSTKAVYDRILDLRIATPQIVINYAMFLEEKHYFEESFKA  
YERGISLFWPNVSDIWSYLTKFIAFYGGKLERARDLFEQALDGCPPKYAKTLYLLYA  
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIYIKRAAEIYGVTHTRGIYQKAIEVLS  
DEHAREMCLRFADMECKLGEIDRARAIYSFCSQICDPRTTGAFWQTWKDFEVRHGNEDTI  
KEMLRIRRSVQATYNTQVNFMAQMLKVSGSATGTVSDLAPGQSGMDDMKLLEQRAEQLA  
AEAERDQPLRAQSKILFVRSDASREELAELAQQVNPEEIQLGEDEDEDEMDLEPNEVRLE  
QQSVPAAVFGSLKED

>sp|Q9NSD9|SYFB\_HUMAN Phenylalanine--tRNA ligase beta subunit OS=Homo sapiens GN=FARSB  
PE=1 SV=3

MPTVSVKRDLLFQALGRITYTDEEFDELCEFGLELDEITSEKEIISKEQGNVKAAGASDV  
VLYKIDVPANRYDLLCLEGLVRGLQVFKERIKAPVYKRVMPDGKIQKLIITEETAKIRPF  
AAVAVLNRNIKFTKDRYDSFIELQEKLHQNICRKRALVAIGTHDLDTLSGPFTYTAKRPSD  
IKFKPLNKTKEYTACELMNIYKTDNHLKHYLHIIENKPLYPVIIYDSNGVVLSPPIINGD  
HSRITVNRNIFIECTGTDFTKAKIVLDIIIVTMFSEYCNQFTVEAAEVVPNGKSHTFP  
ELAYRKEMVRADL INKKVGIRETPENLAKLLTRMYLKSEVIGDGNQIEIEIPTRADIH  
ACDIVEDAAIAYGYNNIQMTLPKTYTIANQFPLNKLTELLRHDMAAAGFTEALTFALCSQ  
EDIADKLGVDISATKAVHISNPKTAEFQVARTTLLPGLLKTIANRKMPLPLKLFEISDI  
VIKDSNTDVGAKNYRHLCVYYNKNPGFEI IHGLLDRIMQLLDVPPGEDKGGYVIKASEG  
PAFFPGRCAEIFARGQSVGKLGVLHPDVITKFELTMPCSSLEINVGPF

>sp|Q96GW9|SYMM\_HUMAN Methionine--tRNA ligase, mitochondrial OS=Homo sapiens GN=MARS2  
PE=1 SV=2

MLRTSVLRLLGRTGASRLSLEDGFPRIYSSGSLSGDDACDVRAFYFTPIFYVNAAPHI  
GHLYSALLADALCRHRLRGPSTAATRFSTGTDEHGLKIQAAATAGLAPTELCDRVSEQ  
FQQLFQEAGISCTDFIRTTEARHRVAVQHFWGVLSRGLLYKGVYEGWYCASDECFLPEA  
KVTQQPGPSGDSFPVSLESHPVSWTKEENYIFRLSQFRKPLQRWLRGNPQAITPEPFHH  
VVLQWLDEELPDLSVSRSSHLHWGIPVPGDDSQTIYVWLDALVNYLTVIGYPNAEFKSW  
WPATSHIIGKDILKFHAIYWPAFLGAGMSPPQRICVHSHWTVCGQKMSKSLGNVDPRT  
CLNRYTVDGFRYFLLRQGVPNWDCDYDEKVVKLLNSELADALGLLNRCTAKRINPSET  
YPAFCTTCFPSEPLVGPSVRAQAEDYALVSAVATLPKQVADHYDNFRIYKALEAVSSCV  
RQTNGFVQRHAPWKLNWESPVDAPWLGTVLHVALECLRVFGTLLQPVTPLADKLLSRLG  
VSASERSLGELYFLPRFYGHPCPFEGRRLGPEGLLPRLDQSRTWLKHAHT

>sp|Q7Z422|SZRD1\_HUMAN SUZ domain-containing protein 1 OS=Homo sapiens GN=SZRD1 PE=1 SV=1  
MEDEEVAESWEEAADSGEIDRRLEKKLKITQKESRKSKEPKVPVIVQDDSLPAGPPPQI  
RILKRPTSNQVSSPNSTSRPTLPVKSLAQREAIEAARKRILGSASPEEEQEKPIILDRP  
TRISQPEDSRQPNNVIRQLGPDGSQGFKQRR

>sp|H3BS89|T178B\_HUMAN Transmembrane protein 178B OS=Homo sapiens GN=TMEM178B PE=2 SV=1  
MAAGRLLLYTGLSLALCALGMLAVAICSDHWYETDARKHRDRCKAFNTRRVDPGFIYNNN  
NNLPLRASRSLDRWEGKLLRARNRRQLFAMSPADECQRYNSTNMGLWRKCHRQGFDP  
IAALIRKGEIERCTYIKYHYSSATIPRNLTFTNITKTIRQDEWHALHLRRMTAGFMGMAVA  
IILFGWIIGVLGCCWDRGLMQYVAGLLFLMGGTFCIISLCTCVAGINFELSRYPRIYGL  
PDDISHGYGWSMFCAWGGLGLTLISGFFCTLAPSVQVPVPRTNYPKSRPENGTVC

>sp|Q7Z7N9|T179B\_HUMAN Transmembrane protein 179B OS=Homo sapiens GN=TMEM179B PE=1 SV=1  
MALSWLQRVELALFAAAFLCGAVAAAAMTRTQGSFSGRCPLYGVATLNGSSLALSRSAP  
SLCYFVAGASGLLALYCLLLLLFWIYSSCIEDSHRGAIGLRIALAISAIIVFLVLSACI

LRFGTRSLCNSIIISLNTTISCSEAQKIPWTPPGTALQFYSNLHNAETSSWVNLVLWCVV  
VLQVVQWKSEATPYRPLERGDPEWSSETDALVGSRLSHS

>sp|Q9NVA4|T184C\_HUMAN Transmembrane protein 184C OS=Homo sapiens GN=TMEM184C PE=1 SV=2

MPCTCTWRNWRQWIRPLVAVIYLVSIIVAVPLCVWELQKLEVGIHTKAWFIAGIFLLLT  
PISLWVILQHLVHYTQPELQKPIIRILWMVPIYSLDSWIALKYPGIAIYVDTCRECYEAY  
VIYNFMGFLTNYLTNRYPNLVLILEAKDQQKHFPPLCCPPWAMGEVLLFRCKLGLVQYT  
VVRPFTTIVALICELGIIYDEGNFSFSNAWTYLVIIINMSQLFAMYCLLLFYKVLKEELS  
PIQPVGKFLCVKLVFVFSFWQAVVIALLVKVGVISEKHTWEWQTVEAVATGLQDFIICIE  
MFLAAIAHHYTFYSKPYVQEAEEGSCFDSFLAMWDVSDIRDDISEQVRHVGRTRVGRHPRK  
KLPEDQDQNEHTSLLSSSSQDAISIIASSMPPSPMGHYQGFQHTVTPQTTPPTAKISDEI  
LSDTIGEKKEPSDKSVDS

>sp|POC7N4|T191B\_HUMAN Transmembrane protein 191B OS=Homo sapiens GN=TMEM191B PE=3 SV=2

MCRATLGLPLPPIVIVIPARRSLPIVTPASRRLGPRGGRHLGSVSTAMAATQELLQLQK  
DNRDGRQRKQELEKLMRGLEAESESLNQLQDLSEERERSLLRRRSQAAQPLQGEAREEAR  
ERAERVRRRLAEAERHKEDLEQHSRQLQEWEELSSQLFYGGEPQSQKSTEQLAAQLVT  
LQNELELAETKCALQEEKLQDALQTAEAWAIFQEQTIVLQVRPHSDAKVPPASPPDLG  
RCDGQLRGVQYSTESLMEEMARADRETRLFGGPRALAIRRCVLGALQVLLTLPLLFLGLS  
LLWTVLLDPGAVSAWLWLTSETTLRRLRYTSLPILLELRANGLLPT

>sp|Q69YZ2|T200B\_HUMAN Transmembrane protein 200B OS=Homo sapiens GN=TMEM200B PE=2 SV=1

MTAGSPEECGEVRRSPPEGRVSRRLGRRRRPRSPPEPLRVRLRLRSPSGAFAALGA  
LVVLVGMGIAVAGYWPHRAGAPGSRAANASSPQMSELRREGGGRAHGPHERLRLGVP  
IMGVGLFVFICANTLLYENRDLETRRLRQGVLAQALRPPDGPWDCALLPSPGPRSPRA  
VGCAEPEIWDPSRRGTSPVPSVRSLRSEPNPRLGLPALLNSYPLKGPGLPPPWPRTQ  
TGHVITTVQPSGSCIEHKSLLDLGLGELLGAPAAARDCAHRSWPRLDRLSLGGYAKLGGG  
GDLGARV

>sp|Q15714|T22D1\_HUMAN TSC22 domain family protein 1 OS=Homo sapiens GN=TSC22D1 PE=1 SV=3

MHQPPSTAAAAAADISARKMAHPAMFPRRGSGSGSASALNAAGTGVGSNATSSSEDFPP  
PSLLQPPPPAASSTSGPQPPPPQSLNLLSQAQLQAQPLAPGGTQMKKKSQFQITSVTPAQ  
ISASISSNNISIAEDTESYDDLDESHTEDLSSEILDVSLSRATDLGEPERSSEETLNNF  
QEAETPGAVSPNQPHLPQPHLPQPNVINGNAHPHLLHHHHQIHHGHHLQHGHHPHS  
HVAVASASITGGPPSSPVSRKLSTTGSSDSITPVAPTSVSSSGSPASVMTNMRAPSTTG  
GIGINSVTGTSTVNNVNITAVGSFNPNVTSSMLGNVNISTSNIPTSAAGVSVGPGVTSGVN  
VNILSGMGNGTISSSAVSSVPNAAAGMTGGSVSSQQQQPTVNTSRFRVVKLDSSEPFK  
KGRWCTCTEFYEKENAVPATEGVLINKVETVKQNPVIEVTSERESTSGSSVSSSVTLSTSHY  
TESVSGSEMGAFTVVVQQQQQQQQQQQPALQGVTLQMDFGSTGPGSIPAVSIPQSIS  
QSQISQVQLQSQELSYQQKQGLQPVPLQATMSAATGIQPSPVNVVGVTSALGQQPSISSL  
AQPLPYQAAPPVQTPLPGAPPPQQLQYGGQQPMVSTQMAPGHVKSVTQNPASEYVQQQ  
PILQTAMSSGQPSAGVGAGTTVIPVAQPQGIQLPVQPTAVPAQPAGASVQPVGQAPAAV  
SAVPTGSQIANIGQANIPAVQQPSTQVPPSVIQQGAPPSSQVPPAQTGIIHQGVQTS  
APSLPQQLVIASQSSLLTVPPQPQGVPEPVAQGIVSQQLPAVSSLPSASSISVTSQVSSTG  
PSGMPAPTNLVPPQNIATPATQNGNLVQSVSQPPLIATNTNLPLAQQIPLSSTQFSAQ  
SLAQAIQSQIEDARRAAEPSLVGLPQTISGDSGGMSAVSDGSSSLAASASLFLPLVLPL  
TTPLVDGEDESSGASVVAIDNKIEQAMDLVKSHLMYAVREEVEVLKEQIKELIEKNSQL  
EQENLLKTLASPEQLAQFQAQLQTGSPPATTQPQGTTPPAQPASQSGSPTA

>sp|P52657|T2AG\_HUMAN Transcription initiation factor IIA subunit 2 OS=Homo sapiens  
GN=GTF2A2 PE=1 SV=1

MAYQLYRNTTLGNSLQESLDELIQSQQITPQLALQVLLQFDKAINAALAQRVRNRVNFRG  
SLNTYRFCDNVWTFVLNDVEFREVTELIKVDKVKIVACDGKNTGSNTTE

>sp|P29084|T2EB\_HUMAN Transcription initiation factor IIE subunit beta OS=Homo sapiens  
GN=GTF2E2 PE=1 SV=1

MDPSLLRERELFKKRALSTPVVEKRSASSESSSSSSKKKKTKVEHGGSSGSKQNSDHSNG  
SFNLKALSGSSGYKFGVLAKIVNYMKTRHQRGDTHPLTLDEILDDETQHLDIGLKQKQWLM  
TEALVNNPKIEVIDGKYAFKPKYNVRDKALLRLLDQHDQRGLGGILLEDIEEALPNSQK  
AVKALGDQILFVNRPDKKKILFFNDKSCQFSVDEEFQKLWRSVTVDSDMDEEKIEEYLKRQ  
GISSMQESGPKKVAPIQRRKKPASQKKRRFKTHNEHLAGVLKDYSIDITSSK

>sp|Q9NYV9|T2R13\_HUMAN Taste receptor type 2 member 13 OS=Homo sapiens GN=TAS2R13 PE=1  
SV=1

MESALPSIFTLVIIAEFIIGNLSNGFIVLINCIDWVSKRELSSVDKLLIILAIISRIGLIW  
EILVSWFLALHYLAIFVSGTGLRIMIFSWIVSNHFNWLATIFSIFYLLKIASFSSPAFL  
YLKWRVNVKIVLMILLGTLVFLFLNLIQINMHIKDWLDYERNTTWNFSMSDFETFVS SVK  
FTMTMFSLTPFTVAFISFLLLIFSLQKHLQKMQLNYKGHRDPRTKVHTNALKIVISFLLF  
YASFFLCVLISWISELYQNTVIYMLCETIGVFSPSSHFLILGNAKLRQAFLLVAAKVW  
AKR

>sp|Q9NYV8|T2R14\_HUMAN Taste receptor type 2 member 14 OS=Homo sapiens GN=TAS2R14 PE=1  
SV=1

MGGVIKSIFTFVLIVEFIIGNLNSFIALVNCIDWVKGRKISSVDRILTALAIISRISLVW  
LIFGSWCVSVPFALFATEKMFRLMTNIWTVINHFSVWLATGLGTFFYFLKIANFSNSIFL  
YLKWRVKKVVLVLLLVTSVFLFLNIALINIHINASINGYRRNKTCSSDSSNFRFSSSLIV  
LTSTVFIFIPFTLSAMFLLLIFSMWKHRKKMQHTVKISGDASTKAHRGVKSVITFFLLY  
AIFSLSFFISVWTSERLEENLIILSQVMGMAYPSCHSCVLILGNKKLRQASLSVLLWLRY  
MFKDGEPSGHKEFRESS

>sp|Q53R12|T4S20\_HUMAN Transmembrane 4 L6 family member 20 OS=Homo sapiens GN=TM4SF20  
PE=1 SV=1

MTCCEGWTSCNGFSLLVLLLLGVVLNAIPLIVSLVEEDQFSQNPISCFEWWFPGIIGAGL  
MAIPATTMSLTARKRACCNRTGMFLSSLSFVITVIGALYCM LISIQALLKGPLMCNSPS  
NSNANCEFSLKNISDIHPESFNLQWFFNDSCAPPTGFNKPTSNDTMASGWRASSFHFDE  
ENKHRLIHFSVFLGLLLVGILEVLFGLSQIVIGFLGCLCGVSKRRSQIV

>sp|Q9Y2A0|T53G1\_HUMAN TP53-target gene 1 protein OS=Homo sapiens GN=TP53TG1 PE=2 SV=1  
MMLGSLAPDPGSRRHSGQAALRPRRYPTLWDRCRKRWLRPIFTQLLAAGLAYHTLLPIPS  
EPLFAAPGEHLHQCFVKESYCPPRVLAKEQ

>sp|Q8IXH6|T53I2\_HUMAN Tumor protein p53-inducible nuclear protein 2 OS=Homo sapiens  
GN=TP53INP2 PE=1 SV=2

MFQRLSSLFFSTPSPPEDPDCPRAVSEDEVDGWLIIIDLPSYAAPPSPGAAPAPAGRP  
PPAPSLMDESFWFTPPACFTAEGPGLGPRLQSSPLEDLLIEHPSMSVYVTPGSTIVLEPG  
SPSPLPDAALPDGDLSEGELTPARREPRAARHAAPLARAALLEKAGQVRRLQRARQRAE  
RHALSAKAVQRQNRARESRRRSKNQSSFIYQPCQRQFNY

>sp|Q9NYW7|TA2R1\_HUMAN Taste receptor type 2 member 1 OS=Homo sapiens GN=TAS2R1 PE=1 SV=1  
MLESHLIIYFLLAVIQFLLGIFTNGIIVVNGIDLIKHRKMAPLDLLLSCLAVSRIFLQL

FIFYNVVIVIFFIEFIMCSANCAILLFINELELWLATWLGVFYCAKVASVRHPLFIWLKM  
RISKLVPMILGSLLYVSMICVFHISKYAGFMVPYFLRKFFSQNATIQKEDTLAIQIFS  
AEFSVPLLIFLFAVLLIFSLGRHTRQMRNTVAGSRVPGRGAPISALLSILSFLILYFSH  
CMIKVFLSSLKFHIRRFIFLFFILVIGIYPSGHSLLILGNPKLKQNAKKFLLHSCCQ  
>sp|Q9NYW6|TA2R3\_HUMAN Taste receptor type 2 member 3 OS=Homo sapiens GN=TAS2R3 PE=2 SV=3  
MMGLTEGVFLILSGTQFTLGILVNCFIELVNGSSWFKTKRMSLSDFIITTLALLRIILLC  
IILTDSFLIEFSPNTHDSGIIMQIIDVSWTFTNHLIWLATCLGVLYCLKIASFSHPTFL  
WLKWRVSRVMVWMLLGALLSCGSTASLINEFKLYSVFRGIEATRNVEHFRKKRSEYYL  
IHVLGTLWYLPPLIVSLASYSLLIFSLGRHTRQMLQNGTSSRDPTTEAHKRAIRIILSFF  
FLFLLYFLAFLIASFGNFLPKTKMAKMIGEVMTMFYPAGHSFILILGNSKLKQTFVVMRL  
CESGHLKPGSGKPIFS

>sp|Q9NYW2|TA2R8\_HUMAN Taste receptor type 2 member 8 OS=Homo sapiens GN=TAS2R8 PE=1 SV=1  
MFSPADNIFIILITGEFILGILNGYIALVNWIDWIKKKISTVDYILTNLVIARICLIS  
VMVNGIVIVLNPVYTKNQIVIFTFWTFANYLNMWITTCLNVFYFLKIASSSHPLFL  
WLKWKIDMVVHWILLGCF AISLLVSLIAAIVLSCDYRFHAI AKHKNITEMFHVSKIPYF  
EPLTLFNLFAIVPFIVSLISFLLVRS LWRHTKQIKLYATGSRDPSTEVHVRAIKTMTSF  
IFFFLYYISSILMTFSYLMTKYKLAVEFGEIAAILYPLGHSLILIVLNNKLRQTFVRML  
TCRKIACMI

>sp|Q96RI9|TAAR9\_HUMAN Trace amine-associated receptor 9 OS=Homo sapiens GN=TAAR9 PE=2  
SV=1

MVNNFSQAEAVELCYKNVNESCIKTPYSPGPRSILYAVLGFGLAAFGNLLVMIAILHF  
KQLHTPTNFLIASLACADFLVGVTMPFSTVRSVESWCYFGDSYCKFHTCFDTSFCFASL  
FHLCCISVDRIYIAVTDPLTYPTKFTVSVSGICIVLSWFFSVTYSFSIFYTGANEIEEL  
VVALTCVGGCQAPLNQNWLLCFLFFIPNVAMVFIYSKIFLVAKHQARKIESTASQAQS  
SSESYKERVAKRERKAAKTLGIAMAAFLVSWLPYLDAVIDAYMNFITPPYVYEILVWCV  
YYNSAMNPLIYAFYQWFGKAIKLVSGKVLRTDSSTTNLFSEEVETD

>sp|Q01995|TAGL\_HUMAN Transgelin OS=Homo sapiens GN=TAGLN PE=1 SV=4

MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDGRGLGFQVWLKNGV  
ILSKLVNSLYPDGSKPVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMFQTVDLFEG  
KDMAAVQRTLMA LGS LAVTKNDGHYRGDPNWFMKKAQEHKREFTESQLQEGKHVIGLQMG  
SNRGASQAGMTGYGRPRQIIS

>sp|Q9COD5|TANC1\_HUMAN Protein TANC1 OS=Homo sapiens GN=TANC1 PE=1 SV=3

MLKAVLKKSREGGKGKKEAGSDFGPETSPVLHLDHSADSPVSSLPTAEDTYRVSLAKGV  
SMSLPSSPLLPRQSHLVQSRVNKSPGPVRKPKYVESPRVPGDAVIMPFREVAKPTEPDE  
HEAKADNEPSCSPAAQELLTRLGFLLEGIPSATHITIEDKNETMCTALSQGISPCSTLT  
SSTASPTDSPCSTLNSCVSKTAANKSPCETISSPSSTLESKDSGIIATITSSSENDERS  
GSSLEWNKDG NLR LGVQKGV LHDRRADNCSPVAEEETGSAESTLPKAESSAGDGPVPYS  
QGSSSLIMPRPNSVAATSSTKLEDLSYLDGQRNAPLRTSIRLPWHNTAGGRAQEVKARFA  
PYKPQDILLKPLLFEVPSITDTSV FVGRDWLFHQIEENLRNTELAENRGAVVVGNGVFGK  
TAIISKLVALSCHGSRMRQIASNSPGSSPKTSDPTQDLHFTPLLSPSSSTSASSTAKTPL  
GSISAENQRPREDAVKYLASKVVAYHYCQADNTYTCLVPEFVHSIAALLCRSHQLAAYRD  
LLIKEPQLQSMLSLRSCVQDPVAAF KRGVLEPLTNLRNEQKIPEEYIILIDGLNEAEFH  
KPDYGDTLSSFITKIISKFPWLKLIVTVRANFQEIIISALPFVKLSLDDFPDNKDIHSDL  
HAYVQHRVHSSQDILSNISLNGKADATLIGKVSSHLVLRSLGSYLKLTLDLFQRGHLV

IKSASYKVVPVSLSELYLLQCNMFMFTQSAFERALPILNVALASLHPMTDEQIFQAINAG  
HIQGEQGWEDFQQRMDALSCFLIKRRDKTRMFCHPSFREWLVRADGENTAFLCEPRNGH  
ALLAFMFSRQEGKLNRRQQTMELGHHILKAHIFKGLSKKTGISSSHLQALWIGYSTEGLSA  
ALASLRNLYTPNVKVSRLILGGANVNYRTEVLNNAPILCVQSHLGHEEVVTLLEFGAC  
LDGTSENGMTALCYAAAAGHMKLVCLLTKKGVVRVDHLDDKKGCALVHSALRGHDILQYL  
LTCEWSPGPPQPGTLRKSHALQQALTAAASMGHSSVVQCLLGMEKEHEVEVNGDTLWGE  
TALTAAAGRGKLEVCELLLGHGAASRTNRRGVPPLFCAARQGHQIVRLLLERGCDVNL  
SDKQGRTPLMVAACEGHLSTVEFLLSKGAALSSLDKEGLSALSWACKGHRAVVQYLVEE  
GAAIDQTDKNRTPDLAAFYGDAETVLYLVEKGAVIEHVDHSGMRPLDRAIGCRNTSVV  
VALLRKGAKLGNAAWAMATSKPDILIILLQKLMEEGNVMYKKGKMKKEAAQRYQYALRKFP  
REGFGEDMRPFNELRVSLYLNLRCRRKTNDFGMAEEFASKALELKPKSYEAFYARARAK  
RNSRQFVAALADLQEAVKLCPTNQEVKRLRLARVEEICKQLQRSQQQKQGPLPAPLNDSE  
NEEDTPTPGLSDHFHSEETEEEEETSPQEEVSPTPRSQPSSSVPSYIRNLQEGLQSKGR  
PVSPQSRAGIGKSLREPVAQPGLLLQPSKQAQIVKTSQHLGSGQSAVRNGSMKVQISSQN  
PPSPMPGRIAATPAGSRTQHLEGTGTFTTRAGCGHFGDRLGPSQNVRLQCGENGAHPL  
PSKTKTTERLLSHSSVAVDAAPPNQGLATCSDVRHPASLTSSGSSGSPSSSIKMSSTS  
SLTSSSSFSDFKQVQPDTRIKDKVVTHVQSGTAHRPRNTPFMGIMDKTARFQQQSNPP  
SRSWHCPAPEGLLTNTSSAAGLQSANTEKPSLMQVGGYNNQAKTCSVSTLSASVHNGAQV  
KELEESKCQIPVHSQENRITKTVSHLYQESISKQQPHISNEAHRSHLTAAKPKRSFIESN  
V

>sp|P47897|SYQ\_HUMAN Glutamine--tRNA ligase OS=Homo sapiens GN=QARS PE=1 SV=1

MAALDSLSLFTSLGLSEKARETLKNSALSAQLREAATQAQQTGSLDKATGILLYGLA  
SRLRDRRLSFLVSYIASKKIHTPEQLSAALEYVRSHPLDPIDTVDFERECEGVGVITPE  
QIEEAVEAAINRHRPQLLVERYHFMGLLMGEARAVLKWADGKMIKNEVDMQVLHLLGPK  
LEADLEKKFKVAKARLEETDRRTAKDVVENGETADQTLSLMEQLRGEALKFHKPGENYKT  
PGYVVTPTMNLKQHLEITGGQVTRFRPPEPNGILHIGHAKAINFNFGYAKANNGICFL  
RFDDTNPEKEEAKFFTAICDMVAWLGYTPYKVITYASDYFDQLYAWAVELIRRGLAYVCHQ  
RGEELKGHNTLPSPWRDRPMEESLLLFEAMRKGFSEGEATLRMKLVMEDGKMDPVAYRV  
KYTPHHRTGDKWCYIPTYDYTHCLCDSIEHITHSLCTKEFQARRSSYFWLCNALDVYCPV  
QWEYGRNLNLHYAVVSKRKILQLVATGAVRDWDDPRLFTLTALRRRGFPPEAINNFCARVG  
VTVAQTTMEPHLLEACVRDVLNDTAPRAMAVLESRLVITNFPAAKSLDIQVPNFPADET  
KGFHQVPFAPIVFIERTDFKEPEPGFKRLAWGQPVGLRHTGYVIELQHVVKGPSGCVES  
LEVTCRRADAGEKPKAFIHWSQPLMCEVRLYERLFQHKNPEDPTEVPGGFLSDLNLASL  
HVVDAAALVDCSVALAKPFDKFQFERLGYFSVDPDSHQGKLVFNRTVTLKEDPGKV

>sp|P49591|SYSC\_HUMAN Serine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=SARS PE=1 SV=3

MVLDDLFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRRCFRADNLNKLKNL  
SKTIGEKMKKKEPVGDDESVPENVLSFDDLTADALANLKVSQIKKVRLIDEAILKCDAE  
RIKLEAERFENLREIGNLLHPSVPI SNDEDVDNKVERIWDGCTVRKKYSHVDLVVMVDGF  
EGEKGAVVAGSRGYFLKGVLFLEQALIQYALRTLGSRGYIPIYTPFFMRKEVMQEVQAL  
SQFDEELYKVIGKGEKSDDNSYDEKYL IATSEQPIAALHRDEWLRPEDLPKYAGLSTC  
FRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFEEMITTAEEFYQSLGIPYH  
IVNIVSGSLNHAASKKLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKMDKV  
EFVHMLNATMCATTRTICAILENYQTEKGITVPEKLKEFMPPGLQELIPFVKPAPIEQEP  
SKKQKKQHEGSKKKAARDVTLENRLQNMEVTD

>sp|Q9NP81|SYSM\_HUMAN Serine--tRNA ligase, mitochondrial OS=Homo sapiens GN=SARS2 PE=1 SV=1

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLEYAREGYSALPQLDI  
ERFCACPEEAAHALELRKGE LRSADLPATISTWQELRQLQE QIRSLEEEKAAVTEAVRAL  
LANQDSGEVQQDPKYQGLRARGREIRKELVHLYPREAQLEEQFY LQALKLPNQTHPDVPV  
GDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSGHRSYYLRGAGALLQH  
GLVNFTFNKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA  
EVGLAGYFMDHTVAFRDLPVRMVCSSTCYRAETNTGQEPRGLYRVHHFTKVEMFGVTGPG  
LEQSSQLLEEFSLQMEILTELGLHFRVLDMP TQELGLPAYRKFDIEAWMPGRGRFGEVT  
SASNCTDFQSRRLHIMFQTEAGELQFAHTVNATACAVPRL LIALLESNQQKDGSVLVPPA  
LQSYLGTDRITAPTHVPLQYIGPNQPRKPGLPGPQPAVS

>sp|Q5T011|SZT2\_HUMAN Protein SZT2 OS=Homo sapiens GN=SZT2 PE=1 SV=3

MASERPEPEVEEAGQVFLMKKDYRISRNVRLAWFLSHLHQTVQATPQEMLLQSEQELEV  
LSVLPPGWQPDEPVVPRPFLVPSTRVTFLAWQYRFVIELDSPSTGIVDDSTGEILFDE  
VFHALSRCLGGLLRPFRVPGSCIDFQPEIYVTIQAYSSIIGLQSHQVLVQGCLLDPSQRE  
VFLQQIYEQLCLFEDKVATMLQQQYDPQSQ AEDQSPDSGDLGRKVGVSMTADLGLVSM  
IRQGILALQLLPSNSSAGIIVITDGVTSVPDVA VCETLLNQLRSGTVACSFVQVGGVYSY  
DCSFGHVPNVELMKFIAMATFGSYLSTCPEPEPGNLGLTVYHRAFLLYSFLRSGEALNPE  
YYCGSQHRLFNEHLVSASSNPALALRRKKHTEKEVPADLVSTVSVRLREGYSVREVTAK  
GGSQLLEVKLVLWKHNMRIEYVAMAPWPLEPEGPRVTRVEVTMEGGYDILHDVSCALRQP  
IRSLYRTHVIRRFWNTLQSINQTDQMLAHLQSFSSVPEHFTLPDSTKSGVPLFYIPPGST  
TPVLSLQPSGSDSSHAQFAAYWKPVLSMDANSWQRWLMHRLVLILEHDTPIPKHLHTPG  
SNGRYSTIQCRISHSSLTSLLRDWSSFVLVEGYSYVKLLSSAPDQPPNSFYMVRIISKAP  
CMVLRLGFPITGPAPARHKIVSGLREEILRLRFP HRVQSKEPTPKVKRKGLGGAGGGSSP  
SKSPPVLGPQQALSDRPCLVLVHKPLDKLLIRYEKLPLDYRAPFLLTLEPPGPLPLVSGR  
SASSSLASLSRYLYHQRWLWSVPSGLAPALPLSAIAQLLSILTEVRLSEGFHFACSGEGI  
INMVLELPIQNEPPGQAAAEKHCTCVVQYILFPPHSTSTKDSFSTDDNDVEVEALEGDS  
ELNLVTEVWVEPYQYGRVGPPIWKHLQDLTYSEIPQALHPRDAACIGSMLSFEYLIQLC  
QSKEWGPLPPEPRVSDGLDQGGDTCVHEIPHFHDL MGLLPQCQQLQMFLLAREPEGVP  
FAEGSCPANDMVLCLLHSCLGQELSDREIPLTPVDQA AFLSEVLRRTCHVPGAEGPLLGV  
HGIPKEQAVGSTQATGDSAFTSLVGLPETLKPLISAQPPQWRCYARLVNPQHVF LTFLP  
ATFSDVQRLAACGLEPPQEETKPKFGDWSGAPSLKDLGGTG IKATKSHVPVLSVTLASD  
NAQNQGELSPPFRRDLQAYAGRQASQTESADGPRTRCPVYIYSCSLEALREQMVGMPQPQ  
APRDLIFRTQFLDHPSPSSAWMEPRYKEAANHCALLQEHAQRCYVRGLFRSLQQAQSVTS  
QDLLTAVDACEELLQEIDITPFLALCGHTWGLPHAPSPGPLSPGPFSSSMEEGAEPRE  
RAILASESSIETEDLSEPEFQSTRVPGIPDPGPEISLTDVCQLRGEAHGALHSVIQEKFL  
EISRLHFRTVPSNPHYFFYCPSSRREDEGPRD TVDRKISDLEFSEAELMGEGDTSACC  
VVTESDPELEVEYRESRESDLGPAGLDSASLSDVDTVNPDEDSFSILGGDSPTGPESFLH  
DLPLFLHLTCSVRLRGQHSSVPVCSLPTCLGQVLS SLEGPPVGGRVPLRDL SVTLDVFM  
LTLPLEVELPTASDPQHHRSTESSASFPRSPGQPSSLRSDDGLGPPLPPPEEERHPGLS  
NLATPHRLAIETTMNEIRWLLEDEMVGALRRGGIPQSPALHRAAAHIHSSPGRSTCLRQT  
LPLSFVFGPERSLTQFKEEFRRLHLP GHVLEDPDSGFFFVAAGQQPGGSHGEPSSAAWA  
WHSHEDRAEGIEGETLTASPAQPGSPEDSEG VPLISLPRVPQGSQPGPSRGLSLMSSQG  
SVSDSHLGYDGGSSGSDSEGNPNDTLGEKAPFTLRTPPGPAPPQPSLSGLPGPCLPDFWLI

VRVLQDRVEVYAHARSLIREDDGGPGTECRHLQQLLVRRVGEICREVNQRLLLQDLHDSHV  
CNSLLVAESEEDLWRSETPFHSRQRAPLPSDDYAADESCAPRGYLAATMQFVPGHFSCDV  
VWGTVIRVHSRLKMGPSMGVSRATQALRSVLNAFSVVRNKNMFVYQERATKAVYYLRLL  
TSCSDRPWKGDALPPSLALSRSQEPYIYSEEASGPRSPDMVSSRSSDAARPVGQVDRHIQ  
LLVHGVGQAGPEITDELVRVLCRRLDEATLDVITVMLVRNCKLTPADVEFIQPPGSLPSE  
VLHLALPTSCRPWLPALAWYLRQNLLIFLHSPKYTDSNSRNHFQHPLPPQGGLPDLDIYL  
YNKPGGQGTGGKGVACITLAFVDEGGAPLSLALWPPSSPGPPDPLREEFEQLTQVIRCP  
VVVDSSSAQNGAPRLRLDVWEKGNTSIVQLEEKLRGAARQALADAI IELQLLPASLCTED  
TPTGSLRNGSLETSSAGRASTFPAPVPGEPTPPSKAGRRSFDMLSKTECDLGSPK  
TTDDIVLDRPEDTRGRRRHKTESVRTPGGAERAPGSDSGAQRQRRTTQLEEGEVGTLP  
VFARVAQRWMEFMVQIGCASVSRSSAHMVSRLPSILSEFTALVTSMAGDTSVRIFEQH  
LGSEPEIFGPCSPGQLGPSRPAERHLLLGRNFLQWRRPTQQAAMQRFEPGGDGSS  
GRNAPRQRLLLLEVVDKKLQLLTYNWAPDLGAALGRALVRLVQWQNAHLIFCLLSQKL  
GLFHHYGQLDFPVRDEKEPNPFLPTMEVETLIRSAPPLSREQGRLSGSSRGGGPLPLD  
TFPFDEALRDITAARSSVLGPVPRPDPVTYHQQFLEIKMAERRELERQMKMENLFVT  
WQQRSTPATMPSAGELETQSSRLVHYCATAMLFDPAAWLHGPPETSGPPDGQRRHRP  
ESGSGSREAPTSCELDVSPPGAREEPWLKELSLAFLQQYVQYLSIGFVLVPLRPPSPA  
RSTSRPRAMAILGTEGRGSFSCPKTKTDGSPKSTSSPVTYHLQRALPGGIILMELAFQG  
CYFCVKQFALECSRIPMGQAVNSQLSMLFTEECDKVRDLMHVHSFSYDFHLRLVHQHVLG  
AHLVLRHGYHLTTFRLRHFLAHHDPGPHFGRNHIYQGTLELPTPLIAAHQLYNYVADHASS  
YHMKPLRMARPGGPEHNEYALVSAWHSSGSYLDSEGLRHQDDFDVSLLVCHCAAPFEEQG  
EAERHVLRLQFFVVLTSQRELFPRLTADMRRFRKPPRLPPEPEAPGSSAGSPGEASGLIL  
APGPAPLFPPLAAEVGMARARLAQLVRLAGGHCRRTLWKRLFLEPPGPDRLRLGGRLA  
LAELEELLEAVHAKSIGDIDPQLDCFLSMTVSWYQSLIKVLLSRFPQSCRHFQSPDLGTQ  
YLVVLNQKFTDCFVLVFLDSHLGKTSLTVVFREPFVQPDSESPPAQLVSTYHHLESVI  
NTACFTLWTRL

>sp|Q9BXJ8|T120A\_HUMAN Transmembrane protein 120A OS=Homo sapiens GN=TMEM120A PE=1 SV=1  
MQPPPPGLGDCLRDWEDLQQDFQNIQETHRLYLKLEELTKLQNNCTSSITRQKKRLQE  
LALALKCKPSLPAAEAGAAQELNQMKEQGLFFDMEAYLPKKNGLYLSVLGNVNTL  
LSKQAKFAYKDEYEKFKLYLTIIILISFTCRFLNSRVTDAAFNFLVWYYCTLTIRES  
ILINNGSRIKGWVVFHHYVSTFLSGVMLTWPDLMYQKFRNQFLSFSMYQSFVQFLQYYY  
QSGCLYRLRALGERHTMDLTVEGFQSWMRGLTFLLPFLFFGHFWQLFNALTLFNLAQDP  
QCKEWQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD

>sp|A6NC51|T150B\_HUMAN Transmembrane protein 150B OS=Homo sapiens GN=TMEM150B PE=2 SV=1  
MWGYLSLMPVFLAVWAISGVWIVFAIAVTNRTVDLSKGFPIYISICGSFPPQSCIFSQVLN  
MGAALAAWICIVRYHQLRDWGVRRWPNQLILWTGLLCALGTSVVGNFQEKNQRPTHLAGA  
FLAFILGNVYFWLQLLLWRLKRLPQGAAWIGPLRLGLCSVCTILIVAMIVLHACSLRSV  
SAACEWVWAMLLFALFGLLAVDFSALESCCTLVQWPWPSLPPASPISLPVQL

>sp|Q8N4L1|T151A\_HUMAN Transmembrane protein 151A OS=Homo sapiens GN=TMEM151A PE=2 SV=1  
MPEDGAGDGGEVPALIPDGEPLREEQRPLKQSLGSSLCRESHWKCLLLTLLIHACGAVVA  
WCRLATVPRLVLGPEAALARGAGGPPPTYPASPCSDGYLYIPLAFVSLLYLLYLAECWHC  
HVRSCQAPRTDAHTVLALIRRLQQAAPCVWWKATSYHYVRRTRQITRYRNGDAYTTTQVY  
HERADSRTARGEFDYSAHGVRDVSKELVGLAEHAATRLRFTKCFSGSAEAEASYLTQRA  
RFFSANEGLDLYLEAREGMHLKDVDVFRESLMVFADPRSPWPYARAWVFWLVSATLSWPL

RVVAAAYGTAHVHYQVEKLFGASSPPPGAVPSGPPLSRVATVDFTELEWHICSNRQLVPSY  
SEAVVMGAGSGAYLRGCQRCRRSVSSNSLPPARPSGPRLPFSRSRLSLGAGGRATPGVFR  
SLSGGPLGRRGEDTEPLESPPCYEDALYFPVLI VHGDGSGCQDGGQAL

>sp|Q8IW70|T151B\_HUMAN Transmembrane protein 151B OS=Homo sapiens GN=TMEM151B PE=2 SV=2

MSPPGSAAGESAAGGGGGGGPGVSEELTAATAAADAEGPAREEQRP IQPSFTKSLCRE  
SHWKCLLSLLMYGCLGAVAWCHVTTVTRLTFSSAYQGNLSMYHDSPCSNGYVYIPLAFL  
LMLYAVYLVECWHCQARHELQHRVDVSSVRERVGRMQATPCIWWKAISYHYVRRTRQVT  
RYRNGDAYTTTQVYHERVNTHVAAEFDYARCGVRDVSKTLVGLGAPATRLRFTKCF SF  
ASVEAENAYLCQARFFAENEGLDDYMEAREGMHLKNVDFREFMVAFPDPARPPWYACSS  
AFWAAALLTSLWPLRVLAERYTAYAHYHVEKLFGLGPGSASSAGGGLSPSDELLPPLTH  
RLPRVNTVDSTELEWHIRSNQQLVPSYSEAVLMDLAGLGRCGGAGGGYAPSCRYGGVGG  
PGAAGVAPYRRSCEHCQRAVSSSSIFSRALSICASPRAGPGPGGAGCGGSRFSLGRLY  
GSRRSCLWRSRSGSVNEASCPTEQTRLSSQASMGDEDDDEEEAGPPPPYHDALYFPVLI  
VHRQEGCLGHSRPLHRHGSCVETSL

>sp|P59543|T2R20\_HUMAN Taste receptor type 2 member 20 OS=Homo sapiens GN=TAS2R20 PE=2  
SV=2

MMSFLHIVFSILVVAFILGNFANGFIALINFIWVKRQKISSADQIIAALAVSRVGLLW  
VILLHWYSTVLNPTSSNLKVIIFISNAWAVTNHFSIWLATSLSIFYLLKIVNFSRLIFHH  
LKRKAKSVVLVIVLGSFLFLVCHLVMKHTYINVWTEECEGNVTWKIKLRNAMHLSNLTVA  
MLANLIPFTLTLSIFLLIYSLCKHLKMKQLHGKGSQDPSTKIHICALQTVTSFILLAI  
YFLCLIIISFWNFKMRPKEIVLMCLQAFGIIYPSFHSFILIWGNKTLKQTFLSVLWQVTCW  
AKGQNQSTP

>sp|P59541|T2R30\_HUMAN Taste receptor type 2 member 30 OS=Homo sapiens GN=TAS2R30 PE=2  
SV=3

MITFLPIIFSILIVVIFVIGNFANGFIALVNSIEWVKRQKISFVDQILTALAVSRVGLLW  
VLLLHWYATQLNPAFYSVEVRITAYNVWAVTNHSSWLATSLSMFYLLRIANFSNLIFLR  
IKRRVKSVDLVILLGPLLFLVCHLFVINMDETVWTKEYEGNVTWKIKLRSAMYHSNMTLT  
MLANFVPLTLTISFLLIICSLCKHLKMKQLHGKGSQDPSTKVHICALQTVTSFLLLCAL  
YFLSMIISVCNFRLEKQPVFMFCQAIIFSYPSTHPFILILGNKKLKQIFLSVLRHVRYW  
VKDRSLRLHRFTRGALCVF

>sp|P59551|T2R60\_HUMAN Taste receptor type 2 member 60 OS=Homo sapiens GN=TAS2R60 PE=2  
SV=1

MNGDHMVLGSSVTDKKAIIIVTILLLLRLVAIAGNGFITAALGVEWVLRRLLPCKLLV  
SLGASRFCLQSVVMGKTIYVFLHPMAFPYNPVLQFLAFQWDFLNAATLWSSTWLSVFYCV  
KIATFTHPVFFWLKHLKSGWLPWMLFSSVGLSSFTTILFFIGNHRMYQNYLRNHLQPWNV  
TGDSIRSYCEKFYLFPLKMITWTMPTAVFFICMILLITSLGRHRKKALLTTSGFREPSVQ  
AHIKALLALLSFAMLFISYFLSLVFSAGIFPPLDFKFWWESVIYLCAAVHPIIILLFSN  
CRLRAVLKSRRSSRCGTP

>sp|Q9Y228|T3JAM\_HUMAN TRAF3-interacting JNK-activating modulator OS=Homo sapiens  
GN=TRAF3IP3 PE=1 SV=2

MISPDPRPSPGLARWAESYEAKCERRQEIRESRRCPNVTTCRQVGKTLRIQQREQLQRA  
RLQQFFRRRNLEEEKGAQHPQAREQGSPRRPGQVTVLKEPLSCARRISSPREQVTGTS  
SEVFPAQHPPSPGICRDLSDHLSSQAGGLPPQDTPIKKPPKHHRGTQTKAEGPTIKNDAS  
QQTNYGVAVLDKEIIQLSDYLKEALQRELVLKQKMVILQDLLSTLIQASDSSWKGLNED



KLKGLRSLLENQLYTCTQKYSWGMKKVLLEMEDQKNSYEQKAKESLQKVLEEKMNAEQQ  
LQSTQRSLALAEQKCEEWSQYEALKEDWRTLGTQHRELESQHLVLQSKLQGADSRDLQM  
NQALRFLENEHQQLQAKIECLQGDRDLCSLDTQDLQDLKRSEAELTLVTRVQQLQGLL  
QNQSLQLQEKEKLLTKKDQALPVWSPKSPNEVEPEGTGKEKDWDLRDQLQKKTLLQAK  
EKECRELHSELNLSDEYLSCLRKLQHCREELNQSQQLPPIRQCGRWLPVLMVIAAALA  
VFLANKDNLMI

>sp|Q9UF72|T73AS\_HUMAN Putative TP73 antisense gene protein 1 OS=Homo sapiens GN=TP73-  
AS1 PE=5 SV=1

MCLSSSAASDLAATSLTAHPCHPPLPRQPQQLILSGSPSIGTVPPPAVGHTSLLPVNP  
PAISTTSDLSAREDATPSASTGHLVFPFAFQVKIPAVPSEQTSQSFSEASHRVLPGGGP  
RCSTRDFGAGVAGHLGLGIFGVGFGSPALLQSVVDENSCCLLYVVEDQLCDVEQAFRAEHL  
GQHQS GSGTGCRHCPQRPAAL

>sp|Q9NYW1|TA2R9\_HUMAN Taste receptor type 2 member 9 OS=Homo sapiens GN=TAS2R9 PE=1 SV=1

MPSAIEAIYIILIAGELTIGIWGNFIVLVNCDWLKRRDISLIDIILISLAISRICLLC  
VISLDGFFMLLPFGTYGNSVLVSIVNVVWTFANNSSLWFTSCLSFYLLKIANISHPFFF  
WLKLKINKVMLAILLGSFLISLIISVPKNDDMWYHLFKVSHEENITWKFKVSKIPGTFKQ  
LTLNLGVMVPFILCLISFFLLLFSLVRHTKQIRLHATGFRDPSTEAHMRAIKAVIIFLLL  
LIVYYPVFLVMTSSALIPQGKLVLMIGDIVTVIFPSSHSFILIMGNSKLREAFKMLRFV  
KCFLRRRKPFVP

>sp|P21731|TA2R\_HUMAN Thromboxane A2 receptor OS=Homo sapiens GN=TBXA2R PE=1 SV=3

MWPNGSSLGPCFRPTNITLEERRLIASPWFASFVGLASNLLALSVLAGARQGGSHTR  
SSFLTFLCGLVLTDFLGLLVGTIVVSQHAALFEWHAVDPGCRLCRFMGVVMIFFGLSPL  
LLGAAMASERYLGITRPFSPAVASQRRRAWATVGLVWAAALALGLLPLLGVGRYTVQYPG  
SWCFLTIGAESGDVAFGLLFSMLGGLSVGLSFLNNTVSVATLCHVYHGQEAQQRPDSE  
VEMMAQLLIGIMVVASVCWLPLLVFIAQTVLRNPPAMSPAGQLSRTTEKELLIYLRVATWN  
QILDPWVYILFRAVLRRLLQPRLSTRPRSLSLQPQLTQRSGLQ

>sp|Q969N4|TAAR8\_HUMAN Trace amine-associated receptor 8 OS=Homo sapiens GN=TAAR8 PE=2  
SV=1

MTSNFSQPVVQLCYEDVNGSCIETPSPGSRVILYTAFSFGSLLAVFGNLLVMTSVLHFK  
QLHSPTNFLIASLACADFLVGVTVMLFSMVRTVESCWYFGAKFCTLHSCCDVAFCYSSVL  
HLCFICIDRYIVTDPVYATKFTVSVSGICISVSWILPLTYSGAVFYTGVDNDGLEELV  
SALNCVGGCQIIVSQGWLIDFLLFFIPTLVMIIYSKIFLIAKQQAIIKETTSSKVESS  
SESYKIRVAKRERKAAKTLGVTVLAFFVISWLPYTVDILIDAFMGFLTPAYIYEICWSAY  
YNSAMNPLIYALFYPWFRKAIKLILSGDVLKASSSTISLFLE

>sp|Q15750|TAB1\_HUMAN TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 OS=Homo  
sapiens GN=TAB1 PE=1 SV=1

MAAQRRLSLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKGTESHPEDSWLKFRSEN  
NCFLYGVFNGYDGNRVTNFVAQRLSAELLGLQNAEHAEDVRRVLLQAFDVVERSFLS  
IDDALAEKASLQSQLEPGVPQHQLPPQYQKILERLKTLEREISGGAMAVVAVLLNNKLYV  
ANVGTRNALLCKSTVDGLQVTQLNVDHTTENEDLFRLSQLGLDAGKIKQVGIICGQEST  
RRIGDYKVYGYTDIDLLSAAKSKPIIAEPEIHGAQPLDGVTFGLVLMSEGLYKALEAAH  
GPGQANQEIAAMIDTEFAKQTSLSDAVAQAVVDRVKRIHSDTFASGGERARFCPRHEDMTL  
LVRNFGYPLGEMSQTPSPAPAAGGRVYPVSVPYSSAQSTSKTSVTLSLVMPSSQGMVNG  
AHSASTLDEATPTLTNQSPTLTLQSTNHTQSSSSSDGGLFRSRPAHSLPPGEDGRVEP

YVDFAEFYRLWSVDHGEQSVVTAP

>sp|Q15543|TAF13\_HUMAN Transcription initiation factor TFIID subunit 13 OS=Homo sapiens  
GN=TAF13 PE=1 SV=1

MADEEEDPTFEEENEIEGGGAEGGQGKRKRLFSKELRCMMYGFDDQNPYTESVDILEDL  
VIEFITEMTHKAMSIGRQGRVQVEDIVFLIRKDPKRFARVKDLLTMNEELKRARKAFDEA  
NYGS

>sp|Q53T94|TAF1B\_HUMAN TATA box-binding protein-associated factor RNA polymerase I  
subunit B OS=Homo sapiens GN=TAF1B PE=1 SV=1

MDLEEAEEFKERCQCAAVSWGLTDEGKYCTSCHNVTERYQEVNTDLIPNTQIKALNR  
GLKKKNTEKGWDWYVCEGFQYILYQAEALKNLGVGPELKNVDLHNFWKRYLQKSKQAY  
CKNPVYTTGRKPTVLEDNLSHSDWASEPELLSDVSCPPFLESQSDIHTRKPFVSK  
ASQSETSVCSGLDVEYSQRKEKGIVKMTMPQTLAFCYLSLLWQREAITLSDLLRFVEE  
DHIPYINAFQHFPEQMPLYGRDRGIFGIESWPDYEDIYKKTVEVGTFDLPRFPDITEDC  
YLHPNILCMKYLMEVNLPDEMHSLTCHVVKMTGMGEVDFTFDPIAKMAKTVKYDVQAVA  
IIVVLKLLFLLDDSFWSLSNLAEKHNEKNKKDKPWDFRKYQIMKKAFFEKKQKWE  
ARAKYLWKSEKPLYYSFVDKPVAYKKREMVNLQKQFSTLVESTATAGKKSPSSFQFNWT  
EEDTDRTCFHGSLQGVLKEKGQSLLTKNSLYWLSTQKFCRCYCTHVTTYEESNYSLSYQ  
FILNLSFLLRIKTSLLHEEVSLEKKLFEKKYSVKRKKRSRKKVRRH

>sp|Q9H5J8|TAF1D\_HUMAN TATA box-binding protein-associated factor RNA polymerase I  
subunit D OS=Homo sapiens GN=TAF1D PE=1 SV=1

MDKSGIDSLDHVTSDAVELANRSDNSSSLFKTQCIPYSPKGEKRNPIRKFVRTPESVH  
ASDSSSDSSFEPILTIKAIIFERFKNRKKRYKKKKRRYQPTGRPRGRPEGRNPIYSLI  
DKKKQFRSRGSGFPFLESENEKNAPWRKILTFEQAVARGFFNYIEKLKYEHLKESLKQM  
NVGEDLENEFDSSRYKFLDDGSISPIEESTAEDEDATHLEDNECDIKLAGDSFIVSSE  
FPVRLSVYLEEEDITEEAALSKKRATKAKNTGQRLKM

>sp|Q6P1X5|TAF2\_HUMAN Transcription initiation factor TFIID subunit 2 OS=Homo sapiens  
GN=TAF2 PE=1 SV=3

MPLTGVEPARMNRKKGDKGFESPRPYKLTHQVVCINNINFQRKSVVGFVELTIFPTVANL  
NRIKLSKQCRIYVRINDLEAAFIYNDPTLEVCHSESKQRNLNYFSNAYAAAVSAVDPD  
AGNGELCIKVPSELWKHVDELKVLKIHINFSLDQPKGGLHFVVPVSEGSMAERGAHVFS  
GYQNSTRFWFPCVDSYSELCTWKLEFTVDAAMVAVSNGDLVETVYTHDMRKKTTFHYMLTI  
PTAASNISLAIGPFEILVDPYMHEVTHFCLPQLPLLKHTTSYLHEVFEFYEEILTCRYP  
YSCFKTVFIDEAYVEVAAYASMSIFSTNLLHSAMIIDETPLTRRCLAQSLAQFFGCFIS  
RMSWSEWVLKGISGYIYGLWMKKTFGVNEYRHWIKEELDKIVAYELKTGGVLLHPIFGG  
GKEKDNPAHLHFSIKHPHTLSWEYYSMFQCKAHLVMRLIENRISMEFMLQVFNKLLSLA  
STASSQKFQSHMWSQMLVSTSGFLKSI SNVSGKDIQPLIKQWVDQSGVVKFYGSFAFNRK  
RNVLELEIKQDYTSPTGQKYVGPLKVTVQELDGSFNHTLQIEENSLKHDIPCHSKSRNK  
KKKIPLMNGEEVMDLSAMDADSPLLWIRIDPMSVLRKVEFEQADFMWQYQLRYERDVV  
AQQESILALEKFPTPASRLALTDILEQECCFYRVRMSACFCLAKIANSMVSTWTGPPAMK  
SLFTRMFCKSCPNIVKTNFMSFQSYFLQKTMVAMALLRDVHNLCPKEVLTIFILDLIK  
YNDNRKNKFSNYYRAEMIDALANSVTPAVSVNNEVRTLDNLNPDVRLILEEITRFLNME  
KLLPSYRHTITVSLRAIRVLQKNHVPSPDPALEFKSYAEYGHFVDIRIAALEAVVDYTKV  
DRSYEELQWLLNMIQNPDVPYVRHKILNMLTKNPPFTKNMESPLCNEALVDQLWKLMSG  
TSHDWRLRCGAVDLYFTLFGLSRPSCLPLPELGLVLNLKEKKAVLNPTIIPESVAGNQEA

ANNPSSHPQLVGFQNPFFSSSQDEEEIDMDTVHDSQAFISHHLNMLERPSTPGLSKYRPAS  
SRSALIPQHSAGCDSTPTTKPQWSLELARKGTGKEQAPLEMSMHPAASAPLSVFTKESTA  
SKHSDHHHHHHHEHKKKKKKHKKHKKHKKHDSKEKDKEPFTFSSPASGRSIRSPSLSD

>sp|P49848|TAF6\_HUMAN Transcription initiation factor TFIID subunit 6 OS=Homo sapiens  
GN=TAF6 PE=1 SV=1

MAEEKKLKLSNTVLPSESMKVVAESMGIAQIQEETCQLLTDEVSYRIKEIAQDALKFMHM  
GKRQKLTTSDIDYALKLKNVEPLYGFHAQEFIPFRFASGGGRELYFYEEKEVDLSDIINT  
PLPRVPLDVCLKAHWLSIEGCQPAIPENPPAPKEQQKAEATEPLKSAKPGQEDGPLKG  
KGQGATTADGKGKEKKAPPLLEGAPLRLKPRSIELSVEQQLYYKEITEACVGSCEAKRA  
EALQSIATDPGLYQMLPRFSTFISEGVRVNVVQNNLALLIYLMRMVKALMDNPTLYLEKY  
VHELIPAVMTCIVSRQLCLRPDVDNHVALRDFAAARLVAQICKHFSTTTNNIQSRITKTFT  
KSWVDEKTPWTRYGSIAGLAELGHDVIKTLILPRLQQGERIRSVLDGPVLSNIDRIGA  
DHVQSLLLKHCAPVLAKLRPPPDNDAYRAEFGSLGPLLCSQVVKARAQAALQAQQVNRT  
TLTITQPRPTLTSQAPQPGPRTPGLLKVPGSIALPVQTLVSARAAAPPQSPPTKFIV  
MSSSSAPSTQQVLSLSTSAPGSGSTTTSPVTTTVPSVQPIVKLVSTATTAPPSTAPSGP  
GSVQKYIVVSLPPTGEGKGGPTSHPSVPPPASSPSPLSGSALCGGKQEAGDSPPPAPGT  
PKANGSQPNSGSPQAP

>sp|Q7Z7C8|TAF8\_HUMAN Transcription initiation factor TFIID subunit 8 OS=Homo sapiens  
GN=TAF8 PE=1 SV=1

MADAAATAGAGGSGTRSGSKQSTNPADNYHLARRRTLQVVVSSLLTEAGFESA EKASVET  
LTEMLQSYISEIGRSAKSYCEHTARTQPTLSDIVVTLVEMGFNVDTLPAYAKRSQRMVIT  
APPVTNQPVTPKALTAGQNRPHPPHIPSHFPEFPDPHTYIKTPTYREPVS DYQVLRKAA  
SQRRDVERALTRFMAKTGETQSLFKDDVSTFPLIAARPFTIPYLTALLPSELEMMQMEET  
DSSEQDEQTDTENLALHISMEDSGAEKENTSVLQQNPSLSGSRNGEENIIDNPYLRPVKK  
PKIRRKKSLS

>sp|Q9UI15|TAGL3\_HUMAN Transgelin-3 OS=Homo sapiens GN=TAGLN3 PE=1 SV=2

MANRGPSYGLSREVQE KIEQKYDADLENKLDWII LQCAEDIEHPPPGRAHFQKWLMDGT  
VLCKLINSLYPGQEP IPKISESKMAFKQMEQISQFLKAAETYGVRTDIFQTVDLWEGK  
DMAAVQRTLMA LGSVAVT KD DGCYRGEPSWFHRKAQQNRRGFSEEQLRQGQNVIGLQMGS  
NKGASQAGMTGYGMPRQIM

>sp|Q7L7X3|TAOK1\_HUMAN Serine/threonine-protein kinase TA01 OS=Homo sapiens GN=TAOK1 PE=1  
SV=1

MPSTNRAGSLKDPEIAELFFKEDPEKLFTDLREIGHGSFGAVYFARDVRTNEVVAIKKMS  
YSGKQSTEKWQDI I KEVKFLQRIKHPNSIEYKGCYLREHTAWLVMEYCLGSASDLLEVHK  
KPLQEVEIAAITHGALQGLAYLHSHTMIHRDIKAGNILLTEPGQVKLADFGSASMSPAN  
SFVGTPYWMAPEVILAMDEGQYDGKVDVWSLGITCIELAERKPPLFNMNAMSALYHIAQN  
ESPTLQSRNEWSDYFRNFVDSCLQKIPQDRPTSEELLKHIFVLRERPETVLIDLIQRTKDA  
VRELDNLQYRKMKKLLFQEAHNGPAVEAQEEEEEQDHGVGRTGTVNSVGSNQSIPSMSIS  
ASSQSSSVNSLPDVSDDKSELDMMEGDHTVMSNSSV IHLKPEEENYREEGDPRTASDPQ  
SPPQVSRHKSHYRNREHFATIR TASLVTRQMQEHEQDSELREQMSGYKRMRRQHQQQLMT  
LENKLAEMDEHRLRLDKDLETQRNNFAAEMEKL IKKHQAAMEKEAKVMSNEEKKFQQHI  
QAAQQKELNSFLESQKREYKLRKEQLKEELNENQSTPKKEKQEWLSKQKENIQHFQAEEE  
ANLLRRQRQYLECRRFKRRMLLGRHNLEQDLVREELNKRQTQKDLEHAMLLRQHESMQ  
ELEFRHLNTIQKMRCELIRLQHQTEL TNQLEYNKRRELERRRKHVMEVRQQPKSLKSKEL

QIKKQFQDTCIKQTRQYKALRNHLETTTPKSEHKAVLKRLKEEQTRKLAILAEQYDHSIN  
EMLSTQALRLDEAQEAECQVLKMLQQLQEELELLNAYQSKIKMQAEAQHDRELRELEQRVSL  
RRALLEQKIEEMLALQNERTERIRSLERQAREIEAFDSESMRLGFSNMVLSNLSPEAF  
SHSYPGASGWSHNPTGGPGPHWGHPMGGPPQAWGHPMQGGPQWGHPSGPMQGVPRGSSM  
GVRNSPQALRRITASGGRTAQMSRSTSVTSQISNGSHMSYT

>sp|Q9P031|TAP26\_HUMAN Thyroid transcription factor 1-associated protein 26 OS=Homo sapiens GN=CCDC59 PE=1 SV=2

MAPVRRSAKWRPGGIEARGEVSTVGYNKNVRQKTWRPNHPQAFVGSVREGQGFAFRRK  
LKIQQSYKKLLRKEKKAQTSLESQFTDRYPDNLKHLYLAEERHRKQARKVDHPLSEQVH  
QPLLEEQCSIDEPLFEDQCSFDQPQPEEQCIKTVNSFTIPKKNKKKTSNKAQEYEQIQ  
AKRAAKKQEFERRKQEREEAQRQYKKKKMEVFKILNKKTKKGQPNLNVQMEYLLQKIQEK  
C

>sp|Q7Z7G0|TARSH\_HUMAN Target of Nesh-SH3 OS=Homo sapiens GN=ABI3BP PE=1 SV=1

MRGGKCNMLSSLGCLLLCGSITLALGNAQKLPKGKRPNLKVHINTTSDSILLKFLRPSPN  
VKLEGLLLGYGSNVSPNQYFPLPAEGKFTEAIVDAEPKYLIVVRPAPPPSQKKSCSGKTR  
SRKPLQLVVGTLTPSSVFLSWGFLINPHHDWTLPSHCPNDRFYTTIRYREKDKEKKWIFQI  
CPATETIVENLKPNTVYEFVKDNVEGGIWSKIFNHKTVVGSKKVNNGKIQSTYDQDHTVP  
AYVPRKLIPITIIKQVIQNVTHKDSAKSPEKAPLGGVILVHLIIPGLNETTVKLPASLMF  
EISDALKTQLAKNETLALPAESKTPEVEKISARPTTVTPETVPRSTKPTTSSALDVSETT  
LASSEKFWIVPTAKISED SKVLQPQTATYDVFSSPTTSDEPEISDSYTATSDRILDSIPP  
KTSRTLEQPRATLAPSETPFVPQKLEIFTSPMQPTTPAPQQTSIPSTPKRRPRPKPPR  
TKPERTTSAGTITPKISKSEPTWTTAPGKTQFISLKPKIPLSPEVTHTKPAPKQTPRA  
PPKPKTSPRPRIPQTQPVKVPQRVTA KPKTSPSPEVSYTTPAPKDVLLPHKPYPEVSQS  
EPAPLETRGIPFIPMISPSPSQEELQTTLEETDQSTQEPFTTKIPRTTELAKTTQAPHRF  
YTTVRPRTSDKPHIRPGVKAPRPSGADRNVSVDSTHTPKKPGTRRPPPLPRPTHPRRKP  
LPPNNTGKPGSAGIISSGPITPPLRSTPRPTGTPLERIETDIKQTPVPASGELENIT  
DFSSSPTRETDP LGKPRFKGPHVRYIQKPDNSPCSITDSVKRFPKEEATEGNATSPQNP  
PTNLTVVTVEGCPFSVILDWEKPLNDTVTEYEVISRENGSFSGKNKSIQMTNQTFTSTVEN  
LKPNTSYEFQVKPNPLGEGPVSNVAFSTESADPRVSEPVSAGRDAIWTERPFNSDSYS  
ECKGKQYVKRTWYKKFVGVQLCNSLRYKIYLSDSLTKGFYNIGDQRGHGEDHCQFVDSFL  
DGRTGQQLTSDQLPIKEGYFRAVRQEPVQFGEIGGHTQINIVQWYECGTTIPGKW

>sp|Q17R31|TATD3\_HUMAN Putative deoxyribonuclease TATDN3 OS=Homo sapiens GN=TATDN3 PE=1 SV=1

MRAAGVGLVDCHCHLSAPDFDRDLDDVLEKAKKANVVALVAVAEHSGEFKIMQLSERYN  
GFVLPLGVHPVQGLPPEDQRSVTLKDLVALPIIENYKDRLLAIGEVGLDFSPRFAGTG  
EQKEEQRQVLIRQIQI LAKRLNLPNVHSRSAGRPTINLLQEQQAEKVLLHAFDGRPSVAM  
EGVRAGYFFSIPPSIIRSGQKQKLVKQLPLTSICLETDS PALGPEKQVRNEPWNISISAE  
YIAQVKGISVEEVIEVTTQNALKLFPKLRHLLQK

>sp|POCG34|TB15A\_HUMAN Thymosin beta-15A OS=Homo sapiens GN=TMSB15A PE=1 SV=1

MSDKPDLSEVEKFDRSKLKKTNTTEKNTLPSKETIQKEKECVQTS

>sp|P68363|TBA1B\_HUMAN Tubulin alpha-1B chain OS=Homo sapiens GN=TUBA1B PE=1 SV=1

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGK  
HVPRAVFVDLEPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLD  
RIRKLADQCTGLQGFLVFHSFGGGTSGGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTA

VVEPYNSILTTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLNLRLISQIVSSITA  
SLRFDGALNVDLTEFQTNLVPYPRIHFLATYAPVISA EKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYM A CCLLYRGDVVPKDVNAAIATIKTKRSIQFVDWCPTGFKVGINYQPP  
TVVPGGDLAKVQRAVCMLSNTTAAEAWARLDHKFDLMYAKRAFVHWYVGE GMEEGEFSE  
AREDMAALEKDYEEVGVD SVEGE GEEEGEEY

>sp|Q9BQE3|TBA1C\_HUMAN Tubulin alpha-1C chain OS=Homo sapiens GN=TUBA1C PE=1 SV=1

MRECISIHVGQAGVQIGNACWELCYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGK  
HVPRAVFVDLEPTVIDEVRTGT YRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLD  
RIRKLADQCTGLQGFLVFHSFGGGTSGGFTSLLMERLSVDYGKKSKEFSIYPAPQVSTA  
VVEPYNSILTTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLNLRLISQIVSSITA  
SLRFDGALNVDLTEFQTNLVPYPRIHFLATYAPVISA EKAYHEQLTVAEITNACFEPAN  
QMVKCDPRHGKYM A CCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPP  
TVVPGGDLAKVQRAVCMLSNTTAAEAWARLDHKFDLMYAKRAFVHWYVGE GMEEGEFSE  
AREDMAALEKDYEEVGAD SAGEDEGEY

>sp|A6NHL2|TBAL3\_HUMAN Tubulin alpha chain-like 3 OS=Homo sapiens GN=TUBAL3 PE=1 SV=2

MRECLSIHIGQAGIQIGDACWELCYCLEHGIQPNGVVLDTQQDQLENAKMEHTNASFDTF  
CETRAGKHVPRALFVDLEPTVIDGIRTGQHRSLFHPEQLLSGKEDAANNYARGRYSVGSE  
VIDLVLERTRKLAECGGLQGFLIFRSFGGGTSGGFTSLLMERLTGEYSRKTKEFSVYP  
APRISTAVVEPYNSVLTTHTSTETDCTFMVDNEAVYDICHRLGVECPHASINRLVVQ  
VVSSITASLRFEGPLNVDLIEFQTNLVPYPRIHFPMTAFAPIVSADKAYHEQFSVSDITT  
ACFESSNLVKCDPRLGKYM A CCLLYRGDVVPKEVNAAIAATKSRSVQFVDWCPTGFKV  
GINNRPTVMPPGGDLAKVHRSICMLSNTTAAIVEAWARLDHKFDLMYAKRAFLHWYLR EGM  
EEAEFLAERDLAALERDYEEVAQSF

>sp|Q9H4B7|TBB1\_HUMAN Tubulin beta-1 chain OS=Homo sapiens GN=TUBB1 PE=1 SV=1

MREIVHIQIGQCGNQIGAKFWEMIGEEHGIDLAGSDRGASALQLERISVYYNEAYGRKYV  
PRAVLVDLEPGTMD SIRSSKL GALFQPD SFVHGNSGAGNNWAKGHYTEGAELIENVLEV  
RHESESCDCLQGFQIVHSLGGGTGSGMGTL MNKIREEYPDRIMNSFSVMPSPKVSDTVV  
EPYNAVLSIHQLIENADACFCIDNEALYDICFRTLKLTP TYGDLNHLVSLTMSGITTS  
RFPGQLNADLRKLAVNMVPFRLHFFMPGFAPLTAQGSQQYRALSVAELTQQMF DARNTM  
AACDLRRGRYLTVACIFRGKMSTKEVDQQLSVQTRNSSCFVEWIPNNVKVAVCDIPPRG  
LSMAATFIGNNTAIQEIFNRVSEHFSAMFKRKAFVHWYTSEGMDINEFG EAENNIHDLVS  
EYQQFQDAKAVLEEDEEVTEEAEMEPEDKGH

>sp|Q13509|TBB3\_HUMAN Tubulin beta-3 chain OS=Homo sapiens GN=TUBB3 PE=1 SV=2

MREIVHIQAGQCGNQIGAKFW EVISDEHGIDPSGNYVGSDQLERISVYYNEASSHKYV  
PRAILVDLEPGTMD SVRSGAFGHLFRPDNFI FGQSGAGNNWAKGHYTEGAELVDSVLDV  
RKECENCDC LQGFQLTHSLGGGTGSGMGTL LISKVREEYPDRIMNTFSVVPSPKVSDTVV  
EPYNATLSIHQLVENTDET YCIDNEALYDICFRTLKLATPTYGDLNHLVSATMSGVTTS  
RFPGQLNADLRKLAVNMVPFRLHFFMPGFAPLTARGSQYRALTVPELTQQMFDAKNMM  
AACDPRHGRYLT VATVFRGRMSMKEVDEQMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRG  
LKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGE GMDMEFTEAESNMNDLVS  
EYQQYQDATAEEGEMYEDDEESEAQGPK

>sp|P68371|TBB4B\_HUMAN Tubulin beta-4B chain OS=Homo sapiens GN=TUBB4B PE=1 SV=1

MREIVHLQAGQCGNQIGAKFW EVISDEHGIDPTGTYHGSDQLERIN VYYNEATGGKYV  
PRAVLVDLEPGTMD SVRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDV

RKEAESCDCLQGFQLTHSLGGGTGSGMGTLISKIREEYPDRIMNTFSVVPSPKVS DTVV  
EPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPYGDNLHLSATMSGVTCL  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTPELTQQMFDAKNMM  
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRG  
LKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGE GMDMEFTEAESNMNDLVS  
EYQQYQDATAEEEEGEFEEEEEEVA

>sp|060347|TBC12\_HUMAN TBC1 domain family member 12 OS=Homo sapiens GN=TBC1D12 PE=1 SV=3

MVGPEDAGACSGRNPCLLPVPAPDPVGQDRKVI RATGGFGGGVGAVEPPEEAD EEEEEADE  
EEETPPRQLLQRYLAAAGEQLEPLCYCPLPAGQAGAPPPSAAPRS DACLLGSGSKHRGA  
EVADGRAPRHEGMTNGDSGFLPGRDCRDLEEARGLARAGGRESRRRRPYGRLRLEGP GDE  
DADGAGSPSDWASPLEDPLRSCCLVAADAQEPEGAGSDSGDSPASSCSSSEDSEQRGVGA  
GGPEGAPPATS AERTNGGAEPRLGFSDIHFNSRNTFQVSRGQSARDHLPPAGPPVPLPA  
AEQGPAGASARARRSGGFADFFTRNLFPKRTKELKSVVHSAPGWKLF GKVPPREN LQKTS  
KIIQQEYEARTGRTCKPPPQSSRRKNFEFEPLSTTALILED RPSNLPKASVEEALRHRQE  
YDEMVAEAKKREIKEAHKRKRIMKERFKQEENIASAMVIWINEILPNWEVMRSTRRVREL  
WWQGLPPSVRGKVWSLAVGNELNITPELYEIFLSRAKERWKS FSETSSENDTEGVSVADR  
EASLELIKLDISRTFP SLYIFQKGGPYHDLHSILGAYTCYRPDVGYVQGMSFIAAVLIL  
NLEEADAFIAFANLLNKPCQLAFFRVDHSMMLKYFATFEVFF EENLSKLFHFKSYS LTP  
DIYLDIWIFTLYSKSLPLDLACRVWDVFCRDGEEFLFRTGLGILRLYEDILLQMDFIHIA  
QFLTCLPEDITSEKLFSCIAAIQMNSTKKWTQVFASVMKDIKEGDKNSSPALKS

>sp|Q86TI0|TBCD1\_HUMAN TBC1 domain family member 1 OS=Homo sapiens GN=TBC1D1 PE=1 SV=2

MEPIFTTARKHLLSNEVSVDFGLQLVGSLPVHSLTTMPMLPWVVAEVRRLSRQSTRKEPV  
TKQVRLCVSPSGLRCEPEPGRSQWDPLIYSSIFECKPQRVHKL IHNSHDPSYFACLIKE  
DAVHRQSICYVFKADDQTKVPEIISSIRQAGKIARQEELHCPSEFDDTFSKKFEVLCGR  
VTVAHKKAPPALIDECIEKFNVHVS GSRGSESPRPNPPHAAPTGSQEPVRRPMRKSFSQPG  
LRSLAFRKELQDGGLRSSGFFSSFEESDIENHLISGHNIVQPTDIEENRTMLFTIGQSEV  
YLISPDTKKIALEKNFKEISFCSQGIRHVDHFGFICRESSGGGGFHFVCYVFQCTNEALV  
DEIMMTLKQAFTVAAVQQTAKAPAQLCEGCPLQSLHKL CERIEGMNSSKTKLELQKHLTT  
LTNQEATIFEVQKL RPRNEQRENELIISFLRCLYEEKQKEHIHIGEMKQTSQMAAENI  
GSELPPSATRFRLDMLKNKAKRSLTESLESILSRGNKARGLQEHSISVDLDSSLSSTLSN  
TSKEPSVCEKEALPISESSFLLGSS EDLSSDSESHLPEEPAPLSPQQA FRRRANTLSHF  
PIECQEPPQPARGSPGV SQRKLMRYHSVSTETPHERKDFESKANHLGDSGGTPVKTRRHS  
WRQQIFLRVATPQKACDSSSRYEDYSELGELPPRSPLEPVCEDGPF GPPPEKKRTSREL  
RELWQKAILQQILLRMEKENQKLQASENDLLNKRLKLDYEEITPCLKEVTTVWEKMLST  
PGRS KIKFDMEKMSAVGQGVPRHHRGEIWKFLAEQFHLKHQFPSKQQPKDVPYKELLKQ  
LTSQQHAILIDLGRFTPTHYPYFSAQLGAGQLSLYNILKAYSLLDQEVGYCQGLSFVAGIL  
LLHMSEEEAFKMLKFLMFD MGLRKQYRPDMIILQIQMYQLSRLLHDYHRDLYNHLEEHEI  
GPSLYAAPWFLTMFASQFPLGFVARVFD MIFLQGTEVIFKVALSLLGSHKPLILQHENLE  
TIVDFIKSTLPNLGLVQMEKTINQVFEMDIAKQLQAYEVEYHVLQEELIDSSPLSDNQRM  
DKLEKTNSSLRKQNLDLLEQLQVANGRIQSLEATIEKLLSSESKLKQAMLTLELERSALL  
QTVEELRRRSAEPSDREPECTQPEPTGD

>sp|Q9PON9|TBCD7\_HUMAN TBC1 domain family member 7 OS=Homo sapiens GN=TBC1D7 PE=1 SV=1

MTEDSQRNFRSVYYEKVGFRGVEEKKSLEILLKDDRLDTEKLCTFSQRFP LPSMYRALVW  
KVLLGILPPHHESHAKVMYRKEQYLDVLHALKVVRVFS DATPQAEVYL RMYQLESGKLP

RSPSPFLEPDDEVFLAIAKAMEEMVEDSVDCYWITRRFVNQLNTKYRDSLPLPKAFEQY  
LNLEDGRLLTHLRMCSAAPKLPYDLWFKRCFAGCLPESSLQRVWDKVVSGSCKILVFVAV  
EILLTFKIKVMALNSAEKITKFLENIPQDSSDAIVSKAIDLWHKHCGTPVHSS

>sp|Q9BTW9|TBCD\_HUMAN Tubulin-specific chaperone D OS=Homo sapiens GN=TBCD PE=1 SV=2

MALSDEPAAGGPEEEAEDETLAFGAALFAFGESAETRALLGRLREVHGGGAEREVALERF  
RVIMDKYQEQPHLLDPHLEWMMNLLLDIVQDQTSPASLVHLAFKFLYIITKVRGYKTFLR  
LFPHEVADVEPVLDLVTIQNPKDHEAWETRYMLLLWLSVTCLIPFDFSRLDGNLLTQPGQ  
ARMSIMDRILQIAESYLIVSDKARDAAAVLSRFITRPDVKQSKMAEFLDWSLCNLARSS  
FQTMQGVITMDGTLQALAQIFKHGKREDCLPYAATVLRCLDGCRLPESNQTLRLKLGVKL  
VQRLGLTFLKPKVAAWRYQRGCRSLAANLQLLTQGGSEQKPLILTEDDDEDDVPEGVER  
VIEQLLVGLKDKDTVVRWSAAKGIGRMAGRLPRALADDVGVSLDCFSFQETDKAWHGGC  
LALAELGRRGLLLPSRLVDVAVILKALTYDEKRGACSVGTNVRDAACYVCWAFARAYEP  
QELKPFVTAISSALVIAAVFDRDINCRAASAAFQENVGRQGTFFHGIDILTTADYFAVG  
NRSNCFLVISVFIAGFPEYTQPMIDHLVTMKISHWDGVIRELAARALHNLAQQAPEFSAT  
QVFPRLLSMTLSPDLHMRHGSILACAEVAYALYKLAAQENRPVTDHLDEQAVQGLKQIHQ  
QLYDRQLYRGLGGQLMRQAVCVLIEKLSLSKMPFRGDTVIDGWQLINDTLRHLHLISSH  
SRQQMKDAAVSALAAALCSEYYMKPEGADPAIQEELITQYLAELRNPEEMTRCGFSLALG  
ALPGFLLKGRLLQVLTGLRAVTHTSPEDVSFAESRRDGLKAIARICQTVGVKAGAPDEAV  
CGENVSQIYCALLGCMDDYTTDSRGDVGTVWRKAAMTSLMDLTLLLARSQPELIEAHTCE  
RIMCCVAQQASEKIDRFRAHAASVFLTLLHFDSPPIPHVPHRGELEKLFPRSDVASVNWS  
APSQAFFPRITQLLGLPTYRYHVLGLVVSLLGGLTESTIRHSTQSLFEYMKGIQSDPQALG  
SFSGTLLQIFEDNLLNERVSVPLLKTLDHVLTGCFDIFTTEEDHPFAVKLLALCKKEIK  
NSKDIQKLLSGIAVFCMVQFPGDVRRQALLQLCLLLCHRFPLIRKTTASQVYETLLTYS  
DVGADVLDEVVTLSDTAWDAELAVVREQNRRLCDLLGVPRPQLVPQPGAC

>sp|Q9NRH3|TBG2\_HUMAN Tubulin gamma-2 chain OS=Homo sapiens GN=TUBG2 PE=2 SV=1

MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDKRDVFFYQADDEHY  
IPRAVLDDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFD  
IIDREADGSDSLEGFVLCHSIAGGTGSGLSYLLERLNDRYPKKLVQTVSVFPYQDEMSD  
VVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQLVSTIMSAST  
TTLRYPGYMNDLIGLIASLIPTPRLHFLMTGYTPLTTDQSVASVRKTTVLDMRRLQ  
KNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSQRIRERKLANFIPWGPASIQVAL  
SRKSPYLPASHRVSGLMANHTSISSLFESSCQQFDKLRKRAFLEQFRKEDMFKDNFDE  
MDRSREVVQELIDEYHAATQPDYISWGTQEQ

>sp|A7MCY6|TBKBI\_HUMAN TANK-binding kinase 1-binding protein 1 OS=Homo sapiens GN=TBKBP1  
PE=1 SV=1

MESMFEDDISILTQEALGPSEVWLDSPGDPSLGGDMCSASHFALITAYGDIKERLGGLER  
ENATLRRRLKVEIKYPLISDFGEEHGFSLYEIKDGSLLVEKVSLLQQLNQQFHELQKN  
KEQEEQLGEMIQAYEKLCEKSDLETELREMRALVETHLRQICGLEQQLRQQQGLQDAAF  
SNLSPPPAPAPCTDLDLHYLALRGSGLSHAGWPGSTPSVSDLERRRLEEALAAQGEA  
RGAQLREEQLQAECERLQGELKQLQETRAQDLASNQSERDMAVVKRVGDDQVNLALAYTE  
LTEELGRLRELSSLQGRILRTLQEQARSQQRHSPLSQRHSPAPQCPSPSPPARAAPP  
PPCQSPVPQRRSPVPPCSPQRRSPASPCSPVPQRRSPVPPSCQSPSPQRRSPVPPS  
CPAPQPRPPPPPPGERTLAERAYAKPPSHHVKAGFQGRRSYSELAEGAAAYAGASPPWLQ  
AEAATLPKPRAYGSELYGPRPLSPRRAFEGIRLRFKQPSSEDEWAVPTSPSPPEVGTI

RCASFCAGFPIPESPAATAYAHAEHAQSWPSINLLMETVGSDIRSCPLCQLGFPVGYRDD  
ALIKHIDSHLENSKI

>sp|Q9BZK7|TBL1R\_HUMAN F-box-like/WD repeat-containing protein TBL1XR1 OS=Homo sapiens  
GN=TBL1XR1 PE=1 SV=1

MSISSDEVNFLVYRYLQESGFHSAFTFGIESHISQSNINGALVPPAALISIIQKGLQYV  
EAEVSINEDGTLFDGRPIESLSLIDAVMPDVVQTRQQAYRDKLAQQQAAAAAAAAAASQ  
QGSANGENTANGEENGHTIANNHTDMMEVDGDVEIPPNAKAVLRGHESEVFICAWNPNV  
SDLLASGSGDSTARIWNLSNSTSGSTQLVLRHCIREGGQDVPSNKDVTSLDWNSEGTLT  
ATGSYDGFARIWTKDGNLSTLGGHKGPIFALKWNKKGNFILSAGVDKTTIIWDAHTGEA  
KQQFPFHSAPALDWDQSNNTFASCSTDMCIHVCKLGQDRPIKTFQGHTNEVNAIKWDPT  
GNLLASCSDDMTLKIWSMKQDNCVHDLQAHNKEIYTIKWSPTGPGTNNPNANMLASASF  
DSTVRLWDVDRGICHTLTKHQEPVYSVAFSPDGRYLASGSFDCVHIWNTQTGALVHSY  
RGTGGIFEVCWNAAGDKVGASASDGSVCVLDLRK

>sp|Q5VXT5|SYPL2\_HUMAN Synaptophysin-like protein 2 OS=Homo sapiens GN=SYPL2 PE=2 SV=1

MSSTESAGRTADKSPRQQVDRLLVGLRWRRLEEPLGFIKVLQWLFAIFAFGSCGSYSGET  
GAMVRCNNEAKDVSSIIVAFGYPFRLHRIQYEMPLCDEESSKTMHLMGDFSAPAEFFVT  
LGIFSFFYTMAALVIYLRFNLYTENKRFPLVDFCVTVSFTFFWLAAAAWGKGLTDVKG  
ATRPSSLTAAMSVCHGEEAVCSAGATPSMGLANISVLFGINFFLWAGNCWFVFKETPDWH  
GGGQQDQDQDQDQGGGPSQESAAEQGAVEKQ

>sp|Q7L8C5|SYT13\_HUMAN Synaptotagmin-13 OS=Homo sapiens GN=SYT13 PE=1 SV=1

MVLSVPVIALGATLTGATSLALCGVTCLCRHMPKGLLPDQDPDEKAKPSLLGSAQ  
QFNVKKSTEPVQPRALLKFPDIYGPRPAVTAPEVINYADYSLRSTEEPTAPASPQPPNDS  
RLKRQVTEELFILPQNGVVEDVCMETWNPEKAASWNQAPKLHYCLDYDCQKAEFVTRL  
EAVTSNHDGGCDYVQGSVANRTGSVEAQTALKKRQLHTTWEEGLVLPLAEEELPTATLT  
LTLRTCDRFSRHSVAGELRLGLDGTSPVPLGAAQWGEKTSAKEPSAGAGEVLLSISYLP  
ANRLLVVLIAKKNLHSNQSKELLGKDVSVKVTLKHQARKLKKKQTKRAKHKINPVWNEMI  
MFELPDDLQASSVELEVLGQDDSGQSCALGHCSLGLHTSGSERSHWEMLKNPRRQIAM  
WHQLHL

>sp|Q8NBV8|SYT8\_HUMAN Synaptotagmin-8 OS=Homo sapiens GN=SYT8 PE=2 SV=4

MLHLHGWTMQGRKMGHPPVSPSAPAPAGTTAIPGLIPDLVAGTPWPRWALIAGALAAGV  
LLVSCLLCAACCCRRHRKKPRDKESVGLGSARGTTTTHLVQPDVDGLESSPGDAQWGC  
LQLSLEFDGFSQEIIRVGLRQAADLRPGGTVDPYARVSVSTQAGHRHETKVHRTLCPVFD  
ETCCFHIPQAELPGATLQVQLFNFKRFSGHEPLGELRLPLGTVDLQHVLEHWYLLGPPAA  
TQPEQVGELCFSLRYVPSSGRLTVVVLEARGLRPLAEPYVKVQLMLNQRKWKKRKTATK  
KGTAAPYFNEAFTFLVPFSQVQNVDLVLAVWDRSLPLRTEPVGKVHLGARASGQPLQHWA  
DMLAHARRPIAQRHPLRPAREVDRMLALQPRLRLRLPLPHS

>sp|Q8IYJ3|SYTL1\_HUMAN Synaptotagmin-like protein 1 OS=Homo sapiens GN=SYTL1 PE=1 SV=1

MPQRGHPSQEGLWALPSLPMAGHPKPETEGLLDLSFLTEEEQEAIVGLQRDARLRQLEE  
GRVSKLRASVADPGQLKILTDGWFQEARSRHHNAHFGSDLVRASMRKKSTRGDQAPGH  
DREAEEAVKEKEEGPEPRLTIDEAPQERLRETEGPDFSPSPVPLKASDPEEASQAQEDPG  
QGDQVCAGEADPELEPASGGEQEPRPQQAQTKAASQILENGEEAPGPDPSLDRMLSSSS  
SVSSLNSSTLSGQSMSLSDAEAVQVRGVSFHFALHYEPGAELRVHVIQCQGLAAARRRR  
SDPYVKSYPVLPDKQSKRKTAVKKRNLPVFNELRYSPVQAEQGRVLSLVVWHRESLGR  
NIFLGEVEVPLDWDWGSEPTWLPLQPRVPPSPDDLPSRGLLALSLKYVPAGSEGAGLPP



SGELHFWVKEARDLLPLRAGSLDYYVQCFVLPDDSQASRQRTRVRRSLSPVFNHTMVYD  
GFGPADLRQACAELSLWDHGALANRQLGGTRLSLGTGSSYGLQVPWMDSTPEEKQLWQAL  
LEQPCEWVDGLLPLRTNLAPRT

>sp|Q8N4U5|T11L2\_HUMAN T-complex protein 11-like protein 2 OS=Homo sapiens GN=TCP11L2  
PE=2 SV=1

MPFNGEKQCVGEDQPSDSDSSRFSESMAASLSDYECRQSFASDSSSKSSSPASTSPPRVV  
TFDEVMATARNLSNLTLAHEIAVNENFQLKQEALPEKSLAGRVKHIVHQAQFWDVLDSELN  
ADPPEFEHAIKLFEEIREILLSFLTTPGGNRLRNQICEVLDTDLIRQQAEHSAVDIQGLAN  
YVISTMGKLCAPVRDNDIRELKATGNIVEVLRQIFHVLDLMQMDMANFTIMSLRPHLQRQ  
LVEYERTKFQEILEETPSALDQTTEWIKESVNEELFSLSESALTPGAENTSKPSLSPTLV  
LNNSYLKLLQWDYQKKELPETLMTDGARLQELTEKLNQLKIIACLSLITNNMVGAITGGL  
PELASRLTRISAVLLEGMNKETFNLKEVLNSIGIQTCVEVNKTLMERGLPTLNAEIQANL  
IGQFSSIEEEDNPIWSLIDKRIKLYMRLLCLPSPQKCMPPMPGGLAVIQQEALGSQY  
ANIVNLNKQVYGPFYANILRKLLFNEEAMGKVDASPTN

>sp|Q96HP8|T176A\_HUMAN Transmembrane protein 176A OS=Homo sapiens GN=TMEM176A PE=2 SV=1  
MGTADSEMAPEAPQHTHIDVHIHQESALAKLLLTCCSALRPRATQARGSSRLLVASWVM  
QIVLGILSAVLGGFFYIRDYTLTVTSGAAIWTGAVAVLAGAAFIYEKRGGTYWALLRTL  
LTAAAFSTAIAALKLWNEDFRYGYSYNSACRISSSSDWNTPAPTQSPEEVRRLLHLCSTF  
MDMLKALFRTLQAMLLGVWILLLLASLTPLWLYCWRMFPTKGKRDQKEMLEVSGI

>sp|Q8NBL3|T178A\_HUMAN Transmembrane protein 178A OS=Homo sapiens GN=TMEM178A PE=2 SV=1  
MEPRALVTALSLGLSLCSLGLLVTAIFTDHWYETDPRRHKESCERSRAGADPPDQKNRLM  
PLSHLPLRDSPLGRRLPGGPGRADPESWRSLLGLGGLDAECGRPLFATYSGLWRKCYF  
LGIDRIDDTLILKGIAQRCTAIKYHFSQPIRLRNIPFNLTKTIIQQDEWHLHLRRITAGF  
LGMMAVALLCGCIVATVSFFWEESLTQHVAGLLFLMTGIFCTISLCTYAASISYDLNRLP  
KLIYSLPADVEHGYWSIFCAWCSLGFIVAAGGLCIAYPFISRTKIAQLKSGRDSTV

>sp|Q1AE95|T183B\_HUMAN Transmembrane protein 183B OS=Homo sapiens GN=TMEM183B PE=2 SV=1  
MARGPGPLGRPRPDTVAMPKRGKRLKFRAHDACSGRVTVDYADSDLAVVRSGRVKKAVA  
NAVRQEVKSLCGLEASQVPAEEALSGAGEPYDIISSDEMDAQEENIHERTVSRKKKSKR  
HKEELDGAAGGEEYPMDIWLLLASIYRPEDIVNFSLICKNAWTVTCTAAFWTRLRYRRHYTL  
DASLPLRLRPESMEKLHCLRACVIRSLYHMYEPFAARISKNPAPIPESTPSTLKNSKCLLF  
WCRKIVGNRQEPMWFEFNFKKQSPRLKSKCTGGLQPPVQYEDVHTNPDQDCCLLQVTTL  
NFIPIVVMGIFTLFTINVSTDMRHHVRVLFQDSPVHGGKRLRSEQGVQVILDPVHSV  
RLFDWWHPQYPFSLRA

>sp|Q6ZMB5|T184A\_HUMAN Transmembrane protein 184A OS=Homo sapiens GN=TMEM184A PE=1 SV=1  
MSNVSGILETAGVPLVSANWPQSPPPAVPAGPQMDHMGNSSQGAPWLFLTSALARGVSG  
IFVWTALVLTCHQIYLHLRSYTPQEQRYYIRLLLIVPIYAFDSWLSLLLLGDHQYYVYF  
DSVRDCYEAFFVIYSFLSCFQYLGGEAIMAEIRGKPIKSSCLYGTCCCLRGMTYSIGFLR  
FCKQATLQFCLVKPVMVTTIILQAQFGKYHGDGDFNVRSGYLYVTLIYNASVSLALYALFL  
FYFTTRELLRPFQPVKFLTIIKAVIFLSFWQGLLLAILERCGVIPEVETSGGNKLGAGTL  
AAGYQNFIIICVEMLFASVALRYAFPCQVYAEKKENSPAPPAPMQSISSGIRETVSPQDIV  
QDAIHNFSPAYQHYTQQATHEAPRPGTHPSGGSGGSRKRSLEKRMLIPSEDL

>sp|Q9H7F4|T185B\_HUMAN Transmembrane protein 185B OS=Homo sapiens GN=TMEM185B PE=1 SV=2  
MNPRLGFQDFNPSKFLIYTCLLLFSVLLPLRLDGIIQWSYWAVFAPIWLKLLVAGASV  
GAGVWARNPRYRTEGEACVEFKAMLIAGVIHLLLLMFEVLVCDRVERGTHFWLLVFMPLF

FVSPVSVAACVWGRHRSLELEILCSVNQLQFIFIALKLDRIIHWPLVVFVPLWILMS  
FLCLVLYIYVSWLLFLRSLDVVAEQRRTHVTMAISWITIVVPLLTFEVLLVHRLDGHNT  
FSYVSIFVPLWLSLLTLMATTFRRKGGNHWFGIRRFDCQFLEIFPFLREYGNISYDLH  
HEDSEDAEETSVPEAPKIAPIFGKKARVVITQSPGKYVPPPKLNIDMPD

>sp|Q9H0A3|T191A\_HUMAN Transmembrane protein 191A OS=Homo sapiens GN=TMEM191A PE=2 SV=1  
MMNNTDFLMLNPNWNLCLVSMDFCFPLDFVSNLFWIFASKFIIVTGQIKADFKRTSWEA  
KAEGSLEPGRKLQLASIVPLYSSLVTAGPASKIIILKRTSLPTVSPSNERAYLLPVST  
DLAHVFYLSYFSINAKSNSFSLDIIIALGIPHNTQAHFNH

>sp|Q9Y3Q8|T22D4\_HUMAN TSC22 domain family protein 4 OS=Homo sapiens GN=TSC22D4 PE=1 SV=2  
MSGGKKKSSFQITSVTTDYEGPGSPGASDPPTPQPPTGPPRLPNGEPSDPGGKGTPRN  
GSPPPGAPSSRFVVKLPHGLGEPYRRGRWTCVDVYERDLEPHSFGGLLEGIRGASGGAG  
GRSLDSRLELASLGLGAPTPPSGLSQGPTSWLRPPPTSPGPQARSFTGGLGQLVVPKAK  
AEKPPLSASSPQQRPEPETGESAGTSRAATPLPSLRVEAEAGGSGARTPPLSRRKAVDM  
RLRMELGAPEEMQVPLDSRPSPALYFTHDASLVHKSPDPFGAVAAQKFSLAHSMIAI  
SGHLSDDDSGSGSLVGIDNKEQAMD LVKSHLMFAVREEVEVLKEQIRELAERNAALEQ  
ENGLLRALASPEQLAQLPSSGVPRLGPPAPNGPSV

>sp|P48775|T230\_HUMAN Tryptophan 2,3-dioxygenase OS=Homo sapiens GN=TD02 PE=1 SV=1  
MSGCPFLGNNFGYTFKKLPVEGSEEDKSQTGVNRASKGLIYGNYLHLEKVLNAQELQSE  
TKGNKIHDHLFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVVSRMHRVSV  
ILKLLVQFQSILETMTALDFNDFREYLSPASGFQSLQFRLLNKGIVLQNMVYPYNNRHY  
RDNFKGEENELLLKSEKLTLELVEAWLERTPGLEPHGFNFWGKLEKNITRGLEEEFIR  
IQAKEESEKEEQVAEFQKQKEVLLSLFDEKRHEHLLSKGERRLSYRALQGALMIYFYRE  
EPRFQVPFQLLTSLMDIDSLMTKWRYNHVCMVHRMLGSKAGTGGSSGYHYLRSTVSDRYK  
VFVDLFLNLSTYLIPRHWPKNMPTIHKFLYAEYCDSSYFSSDESD

>sp|P29083|T2EA\_HUMAN General transcription factor IIE subunit 1 OS=Homo sapiens GN=GTF2E1  
PE=1 SV=2  
MADPDVLTEVPAALKRLAKYVIRGFYGIEHALALDILIRNSCVKEEDMLELLKFDRKQLR  
SVLNNLKGDKFIKCRMVETAADGKTTRHNYFINYRTLNVNVKYKLDHMRRRIETDERD  
STNRASFCKPVCSSFTDLEANQLFDPMTGTFRCTFCHEVEEDESAMPKKDARTLLARF  
NEQIEPIYALLRETEDVNLAYEILEPEPTEIPALKQSKDHAATTAGAASLAGGHHREAWA  
TKGPSYEDLYTQNVVINMDDQEDLHRASLEGKSAKERPIWLRESTVQAYGSEDMKEGGI  
DMDAFQEREEGHAGPDDNEEVMRALLIHEKKTSSAMAGSVGAAAPVTAANGSDSESETSE  
SDDDSPPRPAAVAVHKREDEDEEDEFEEVADDPIMVAGRPFPSYSEVSQRPELVAQMTP  
EEKEAYIAMGQRMFEDLFE

>sp|Q92750|TAF4B\_HUMAN Transcription initiation factor TFIID subunit 4B OS=Homo sapiens  
GN=TAF4B PE=1 SV=2  
MPAGLTEPAGAAPPAASASGTVTMAPAGALPVRVESTPVALGAVTKAPVSVCVEPTASQ  
PLRSPVGLTVTKVAPVSAPPKVSSGPRLPAPQIVAVKAPNTTTIQFPANLQLPPGTVLIK  
SNSGPLMLVSPQQTVTRAETTSNITSRPAVPANPQTVKICTVPNSSQLIKKVAVTPVKK  
LAQIGTTVTTVPKPSSVSQVAVPTSVVTVTPGKPLNTVTLKPSSLGASSTPSNEPNLK  
AENSAAVQINLSPTMLENVKCKNFLAMLIKLACSGSQSPMGQNVKKLVEQLLDAKIEA  
EEFTRKLYVELKSSPQPHLVPLKKSVALRQLLPNSQSFQQCVQQTSSDMVIATCTTT  
VTTSPVTTTVSSSQSEKSIIVSGATAPRTVSVQTLNPLAGPVGAKAGVVTLSVGPATAA  
TGGTTAGTGLLQTSKPLVTSVANTVTTVSLQPEKPVVSGTAVTSLPAVTFGETSGAAIC

LPSVKPVVSSAGTTS DKPVIGTPVQIKLAQPGPVLSQPAGIPQAVQVKQLVVQQPSGGNE  
KQVTTISHSSTLTIQKCGQKTM PVNTIIPTSQFPPASILKQITLPGNKILSLQASPTQKN  
RIKENVTSCFRDEDDINDVTS MAGVNLNEENACILATNSELVGTLIQSCKDEPFLFIGAL  
QKRILDIGKKHDITELNSDAVN LISQATQERLRGLLEKLTATAQH RMTTYKASENYILCS  
DTRS QLK FLEKLDQLEKQRKDLEEREMLLKAAKSRSNKEDPEQLRLKQKAKELQQLELAQ  
IQHRDANLTALAAIGPRKKRPLESGIEGLKDNLLASGTSSLTATKQLHRPRITRICLRDL  
IFCMEQEREMKYSRALYLALLK

>sp|Q15542|TAF5\_HUMAN Transcription initiation factor TFIID subunit 5 OS=Homo sapiens  
GN=TAF5 PE=1 SV=3

MAALAE EQTEVAVKLEPEGPTLLPPQAGDGAGEGSGGTTNNGPNGGGGNVAASSSTGGD  
GGTPKPTVAVSAAAPAGAAPVPAAPDAGAPHDRQTLLAVLQFLRQSKLREAEALRREA  
GLLEEAVAGSGAPGEVDSAGAEVTSALLSRVTASAPGAAPDPPGTGASGATVVSGSASG  
PAAPGKVGSVAVEDQPDVSAVLSAYNQGDPTMYEYYSGLKHFIECSLDCHRAELSQLF  
YPLFVHMYLELVYNQHENEAKSFFEKFHGDQECYYQDDLVLSSLTKKEHMKGNETMLDF  
RTSKFVLIRISRDSYQLLKRHLQEKQNNQIWNIVQEHL YIDIFDGMPSKQQIDAMVGLA  
GEAKREANKSKVFFGLLKEPEIEVPLDDEDEEGENE EGKPKKKKPKKDSIGSKSKKQDPN  
APPQNRIPLELKDSDKLDKIMNMKETTKRVRLGPDCLPSICFYTFNLAYQGLTAVDVT  
DSSLIAGGFADSTVRVWSVTPKKLRSVKQASDLSLIDKESDDVLERIMDEKTASELKILY  
GHSGPVYGASFSPDRNYLLSSSEDGTVRLWSLQTFTCLVG YKGHNYPVWDTQFSPYGYF  
VSGGHDVRARLWATDHYQPLRIFAGHLADV NCTRFHPNSNYVATGSADRTVRLWDVLNGN  
CVRIFTGHKGPIHSLTFSPNGRFLATGATDGRVLLWDIGHGLMVGELKGHTDTVCSLRFS  
RDGEILASGSMDNTVRLWDAIKAFEDLETDDFTTATGHINLPENSQELLLGTYMTKSTPV  
VHLHFTRRNVLVLAAGAYSPQ

>sp|Q03519|TAP2\_HUMAN Antigen peptide transporter 2 OS=Homo sapiens GN=TAP2 PE=1 SV=1

MRLPDLRPWTSLLLVDAALLWLLQG PLGTLLPQGLPGLWEGTLRLGGLWGLLKLRGLLG  
FVGTLLPLCLATPLTVSLRALVAGASRAPPARVASAPWSWLLVG YGAAGLSWSLWAVLS  
PPGAQEKEQDQVNNKVL MWRLKLSRPDLPLLVAAFFFLVAVLGETLIPHYSGRVIDIL  
GGDFDPHAFASAIFFMCLFSFGSSLSAGCRGGCFTYTMSRINLRIREQLFSSLLRQDLGF  
FQETKTGELNSRLSSDTTMSNLPLNANVLLRSLVKVVGLYGFMLSISPRLTLLSLLHM  
PFTIAAEKVYNTRHQEVLR EIQDAVARAGQVVREAVGGLQTVRSFGAEHEVCRYKEALE  
QCRQLYWRRDLERALYLLVRRVLHLGVQMLMLSCGLQQMQDGELTQGSLLSFMIYQESVG  
SYVQTLVYIYGDMLSNVGAAEKVFSYMDRQPNLPSPGTLAPTTLQGVVKFQDV SFAYPNR  
PDRPVLKGLTFTLRPGEVTALVGPNGSGKSTVAALLQNL YQPTGGQVLLDEKPISQYEH  
YLHSQVVS VQGEPVLFSGSVRNNIAYGLQSCEDDKVMAAAQAAHADDFIQEME HGIYTDV  
GEKGSQLAAGQKQLAIARALVRDPRVLILDEATSALDVQCEQALQDWN SRGDRTVLVIA  
HRLQTVQRAHQILVLQEGKLQKLAQL

>sp|O95759|TBCD8\_HUMAN TBC1 domain family member 8 OS=Homo sapiens GN=TBC1D8 PE=1 SV=3

MWLKPEEVLLKNALKLWVTQKSSCYFILQRRRGHGEGGRLTGRLVGALDAVLDSNARVA  
PFRILLQVPGSQVYSPIACGATLEEINQHW DWLEQNLLHTLSVFDNKDDIASFVKGVKA  
LIAEETSSRLAEQEEEPKFR EALVKFEARFNFP EAEKLVYYSCCCKGRVPRQGWL  
YLSINHL CFYSFFLGKELKLVVPWVDIQKLERTSNVFLTD TIRITTQNKERDFSMFLNLDEV  
FKVMEQLADVTLRRLDNEVFDPDLQEPSQITKRDL EARAQNEFFRAFFRLPRKEKLH  
AVVDCSLWTFPSRCHTTGRMFASDSYICFASREDGCKIILPLREVVSIEKMEDTSLLPH  
PIIVSIRSKVAFQFIELRDRDSLVEALLARLKQVHANHPVHYDTSADDDMASLVFHSTSM

CSDHRFGDLEMMSSQNSESEKEKSPLMHPDALVTAQQSGSQSPDSRMSREQIKISLWN  
DHFVEYGRVTCMFRTEKIRKLVAMGIPESLRGRLWLLFSDAVTDLASHPGYYGNLVEESL  
GKCCLVTEEIERDLHRSLEHPAFQNETGIAALRRVLTAYAHNPKEIGYCQSMNILTSVL  
LLYTKEEEAFWLLVAVCERMLPDYFNHRVIGAQVDQSVFEELIKGHLPELAEHMNDLSAL  
ASVSLSWFLTLFLSIMPLESAVNVVDCFFYDGIKAIQQLGLAVLEANAEDLCSSKDDGQA  
LMILSRFLDHIKNEDSPGPPVGSHHAFSDDQEPYPVTDISDLIRDSYEKFGDQSVIE  
HLRYKHRIRVLQGHEDTTKQNVLRVVIPEVSILPEDLEELYDLFKREHMMSCYWEQPRPM  
ASRHDPSRPYAEQYRIDARQFAHLFQLVSPWTCGAHTEILAERTFRLDDNMDQLIEFKA  
FVSCLDIMYNGEMNEKIKLLYRLHIPPALTENDRDSQSPLRNPLSTSRPLVFGKPNGDA  
VDYQKQLKQMIKDLAKEKDKTEKELPKMSQREFIQFCKTLYSMFHEDPEENDLYQAIATV  
TTLLQIGEVGQGRSSSGSCSQECGEELRASAPSPEDSVFADTGKTPQDSQAFPEAAERD  
WTVSLEHILASLLTEQSLVNFEEKPLDMKSKLENAKINQYNLKTFFEMSHQSSELKLSNL

>sp|P23258|TBG1\_HUMAN Tubulin gamma-1 chain OS=Homo sapiens GN=TUBG1 PE=1 SV=2

MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDRKDVFFYQADDEHY  
IPRAVLDDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFD  
IIDREADGSDSLEGFVLCHSIAGGTGSGLSYLLERLNDRYPKKLVQTVSVFPNQDEMSD  
VVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQLVSTIMSAST  
TTLRYPGYMNDLIGLIASLIPTRLHFLMTGYTPLTTDQSVASVRKTTVLDMRRLQ  
KNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSQRIRERKLANFIPWGPASIQVAL  
SRKSPYLPASHRVSGLMANHTSISSLFERTCRQYDKLRKREAFLEQFRKEDMFKDNFDE  
MDTSREIVQQLIDYHAATRPDYISWGTQEQ

>sp|P62380|TBPL1\_HUMAN TATA box-binding protein-like protein 1 OS=Homo sapiens GN=TBPL1  
PE=1 SV=1

MDADSDVALDILITNVVCFRTRCHLNLRKIALEGANVIYKRDVGKVLMLRKPRITATI  
WSSGKIICTGATSEEEAKFGARRLARSQKLGFQVIFTDFKVVNVLAVCNMPFEIRLPEF  
TKNNRPHASYEPHELPAVCYRIKSLRATLQIFSTGSITVTGPNVAVATAVEQIYPFVFE  
SRKEIL

>sp|Q9Y458|TBX22\_HUMAN T-box transcription factor TBX22 OS=Homo sapiens GN=TBX22 PE=1  
SV=3

MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGEEEEERRSSAAGKSEPLEK  
QPKTEPSTSASSGCGSDSGYGNSSESLEEKDIQMEQLQSELWKRFDIGTEMIITKAGRR  
MFPSVRVKVKGDPGKYHVAIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCTIPRFVHP  
DSPCSGETWMRQIISFDRMKLNNEMDDKGHIILQSMHKYKPRVHVIEQGSSVDLSQIQS  
LPTEGVKTFSEKETEFTTVTAYQNNQITKLKIERNPFAKGRDTRNRGVLDGELLETPW  
RPSFTLDFKTFGADTQSGSSGSPVTSSGGAPSPLNSLLSPLCFSPMFHLPTSSLGMPCP  
EAYLPNVNPLCYKICPTNFWQQQLVLPAPERLASSNSSQSLAPLMMEVPMLSSLGVTN  
SKSGSSEDDSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFS  
MPSRLISGSNHLKVNDSDQVSFGEKGCNHVHWYPAINHYL

>sp|P49368|TCBP\_HUMAN T-complex protein 1 subunit gamma OS=Homo sapiens GN=CCT3 PE=1 SV=4

MMGHRPVLVLSQNTKRESGRKVQSGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMT  
NDGNAILREIQVHPAAKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQQMHPT  
VVISAYRKALDDMISTLKKISIPVDISDSMMLNIINSSITTKAISRWSSLACNIALDAV  
KMQVFEENGRKEIDIKYARVEKIPGGIIEDSCVLRGVMINKDVTHPRMRRYIKNPRIVL  
LDSSLEYKKGESQTDIEITREEDFTRILQMEEEYIQLCEDIIQLKPDVVITEKGISDLA

[illegible]

ARMKQFKDMLLERGVSAFSTWEKELHKIVFDPRYLLLNPKERKQVFDQYVKTRAEEERRE  
KKNKIMQAKEDFKKMMEAKFNPRATFSEFAAKHAKDSRFKAIEKMKDREALFNEFVAAA  
RKKEKEDSKTRGEKIKSDFFELLSNHLDSSQSRWSKVKDKVESDPYKAVDSSSMREDLF  
KQYIEKIAKNLDSEKEKELERQARIEASLREREREVQKARSEQTKEIDREREQHKREEAI  
QNFKALLSDMVRSSDVSWSDTRRTLKDRHWESGSLLEEEKEKLFNEHIEALTKKKREH  
FRQLDETSAILTLSTWKEVKKI IKEDPRCIKFSSSDRKKQREFEYIRDKYITAKADFR  
TLLKETKFITYRSKKLIQESDQHLKDVEKILQNDKRYLVLDVPEERRKLIVAYVDDLDR  
RGPPPPPTASEPTRRSTK

>sp|P57738|TCTA\_HUMAN T-cell leukemia translocation-altered gene protein OS=Homo sapiens  
GN=TCTA PE=1 SV=1

MAESWSGQALQALPATVLGALGSEFLREWEAQDMRVTLFKLLLLWLVSLLGIQLAWGFY  
GNTVTGLYHRPGLGGQNGSTPDGSTHFPSEMAANEPLKTHRE

>sp|Q9NUJ3|T11L1\_HUMAN T-complex protein 11-like protein 1 OS=Homo sapiens GN=TCP11L1  
PE=1 SV=1

MSENLDKSNVNEAGKSKSNDSEEGLEDAVEGADEALQKAIKSDSSSPQRVQRPHSSPPRF  
VTVEELLEETARGVTNMAHAHEIVVNGDFQIKPVELPENSLKKRVKEIVHKAFWDCLSVQL  
SEDPPAYDHAIKLVGEIKETLLSFLLPGHTRLRNQITEVLDDLKQEAENGALDISKLA  
EFIIGMMGTLCAPARDEEVKKLDIKEIVPLFREIFSVLDLMKVDMANFAISSIRPHLMQ  
QSVEYERKKFQEILERQPNSLDFVTQWLEEASEDLMTQKYKHALPVGGMAAGSGDMPRLS  
PVAVQNYAYLKLLKWDHLQRPFPETVLMQSRFHELQLQLEQLTILGAVLLVTFMAAPG  
ISSQADFAEKLKMIVKILLTDMHLPFHLKDVLTITIGKVCLEVSSCLSLCGSSPFTTDK  
ETVLKGQIQAVASPDDPIRRIMESRILTFLETYLASGHQKPLPTVPGGLSPVQRELEEVA  
IKFARLVNYNKMVFCPPYDAILSKILVRS

>sp|Q5H9J9|T11X2\_HUMAN T-complex protein 11 X-linked protein 2 OS=Homo sapiens GN=TCP11X2  
PE=3 SV=1

MYNAFWNLHKEQLLSTPPDFTCALELLKDVKENRLRNEIEEALDLDLLKQEAHGLDVP  
HLSNYILNLMALLCAPVRDEAIQKLETIRDPVQLLRGILRVLGLMKMDMVNYTIQSFRPY  
LQEHSIQYEQAKFQELLDKQPSLLDYTTKWLTAAATDITLCPSSPDSPSSSCSMACSLP  
SGAGNNEPPSPTMVLYQGYLNLLWDLENVEFPETLLMDRIRLQELAFQLHQLTVLASV  
LLVARFSFGEVLFRSPEFVDRKCTTKALTEEFISRPEETMLSVSEQVSQEVHQGLKDMG  
LTTLSSENTASLLGQLQNITTKENCIRSIVDQWIRFFLKCCLLHGMQESLLHFPGLILI  
EKELAEKGWKFNLMMHNNQVFGPYAEILKHI IHPAQAQETDVEPN

>sp|Q8IUX1|T126B\_HUMAN Complex I assembly factor TMEM126B, mitochondrial OS=Homo sapiens  
GN=TMEM126B PE=1 SV=2

MVVFGEYAGTKPRDSGVVPVGTEEAPKVFKMAASMHGQPSPSLEDAKLRRPMVIEIIEKN  
FDYLRKEMTQNIYQMATFGTTAGFSGIFSNFLFRRCFKVKHDALKTYASLATLPFLSTVV  
TDKLFVIDALYSNISKENCVFRSSLIGIVCGVFYPPSSLAFTKNGRLATKYHTVPLPPKG  
RVLIHWMTLCTQTMKLMAIPLVFQIMFGILNGLYHYAVFEETLEKTIHEE

>sp|Q24JP5|T132A\_HUMAN Transmembrane protein 132A OS=Homo sapiens GN=TMEM132A PE=1 SV=1

MCARMAGRTTAAPRGPYPWLCLLVALALDVVRVDCGQAPLDPVYLPAALELLDAPEHFR  
VQQVGHYPANSSLSRSETFLLLQWPRAQPPLRASYPFFATQQVVPPRVTEPHQRPVP  
WDVRAVSVEAAVTPAEPYARVLFHLKGQDWPPGSGSLPCARLHATHPAGTAHQACRFQPS  
LGACVVELELPSHWSQASTTAEALAYTLEPAAEGPGGCGSGEENDPGEQALPVGGVELR  
PADPPQYQEVPLDEAVTLRVPDMPVRPGQLFSATLLLRHNFTASLLTLRIKVKGLHVTA

ARPAQPTLWTAKLDRFKSRHHTTLITCHRAGLTEPDSSPLELSEFLWVDFVVENSTGGG  
VAVTRPVTWQLEYPGQAPEAEKDMVWEILVSEDIRALIPLAKAEELVNTAPLTGVPQH  
VPVRLVTVDGGGALVEVTEHVGCESANTQVLQVSEACDAVFVAGKESRGARGVRVDFWWR  
RLRASLRLTVWAPLLPLRIELTDTTLEQVRGWRVPGPAEGPAEPAEASDEAERRARGCH  
LQYQRAGVRFLAPFAAHPLDGGRRRLTHLLGPDWLLDVSHLVAPHARVLDSRVASLEGGRV  
VVGREPVTSTIEVRSPLSDSILGEQALAVTDDKVSLELRVQPMGISLTLRGTAPHPGE  
VTATCWAQSALPAPKQEVALLSLSFSHTVAPAELYDRDLGLSVSAEPPGAILPAEEQ  
GAQLGVVVSAGAEGLPLHVALHPPEPCRRGRHRVPLASGTAWLGLPPASTPAPALPSSP  
AWSPPATEATMGGRKQVAGSVGGTGVGRGKFERAEERKEETEAREEEEEEEEEEMVPAP  
QHVTLELGMIALLGVCVAIFIFLVNGVVFVLRVQRKEPPDSATDPTSPQPHNWVLGT  
DQEELSRQLDRQSPGPPKGECSGPCESGGGGEAPTLAPGPPGTTSSSSTLARKEAGGR  
KRVEFTFAPAPPAQSPPEPVGAPAVQSILVAGEEDIRWVCEDMGLKDPEELRNYMERIR  
GSS

>sp|Q8N3T6|T132C\_HUMAN Transmembrane protein 132C OS=Homo sapiens GN=TMEM132C PE=2 SV=3  
MRSEGAAPGPAAPLCGALSLLGALLGKVIIEGHGVTDNIRFSSLPYPVSYHILRAET  
SFFLKEANQDLLRNSSLQARVESFFTYKTRQPPVLNASYGPFSVEKVVPLDLMLTSNFLG  
PTNKFSFDWKLKAHILRDKVYLSRPKVQVLFHIMGRDWDHAGEKLPCLRVFAFRETRE  
VRGSCRLKGDGLCVAELELLSSWFSAPTGVGGRKKSMQPEGTPVELYYTVHPGNERGD  
CAGGDFRKGNAIRPGKDGLEETSHLQRIGTVGLYRAQDSAQLSELRLDGNVVIWLPSRP  
VKQGEVVTAYVTISSNSSVDLFIILRAKVKKGVNLSAQTREPRQGWKQEVGSGGKHVTA  
TVACQRLGPSRNRSSSLFNEVVQMFELIASFSSLSGTQPIWQVEYPRKGTDDIAVSEI  
FVSQKDLVGIVPLAMDTEILNTAVLTGKTVAMPIKVVSVSEENSAVMDISESVECKSTDED  
VIKVSERCYIFVNGKEIKGMDAVVNFTYQYLSAPLCVTWVPRPLQIEVSDTELSQI  
KGWRVPIVTNKRPTRESEDEDEEERRGRGCALQYQHATVRVLTQFVSEGAGPWGQPNYLL  
SPNWQFDITHLVADFMKLEPHVATLQDSRVLVGREVGMTTIQVLSPLSDSILAECTITV  
LDDKVSVDLAIQLVAGLSVALYPNAENSKAVTAVVTAEEVLRTPKQEAVFSTWLQFSDG  
SVTPLDIYDTKDFSLAATSQDEAVVSVPPRSPRPVVAEAGEGQGPLIRVDMTIAEACQ  
KSKRKSILAVGVGNVRVKFGQNDADSSPGGDYEEDEIKNHASDRRQKGGHHERTGGDGH  
YGSSPVEREEGALRRATTTARSLDNKVVKNSRADGGRLAGEGQLQNIPIDFTNFPADV  
LPKAGSGLEENDLVQTPRGLSDLEIGMYALLGVFCLAILVFLINCATFALKYRHKQVPLE  
GQASMTSHDWWVLGNEAELESMDAPPQDEHTTIIDRGPGACEESNHLLNNGGSHKH  
VQSQIHRADSGGRQGREQKQDPLHSPTSKRKKVKFTTFTTIPDDSCPTVNSIVSSNDE  
DIKWVCQDVAVGAPKELRNYLEKLKDKA

>sp|Q9NX61|T161A\_HUMAN Transmembrane protein 161A OS=Homo sapiens GN=TMEM161A PE=1 SV=1  
MAVLGVQLVVTLLTATLMHRLAPHCSFARWLLCNGSLFRYKHPSEEELRALAGKPRPRGR  
KERWANGLSEEKPLSVPRDAPFQLETCPPLTVDALVLRFFLEYQWFVDFAVYSGGVYLFT  
EAYYYMLGPAKETNIAVFWCLLTFTFSIKMFLTVTRLVYSAEEGGERSVCLTF AFLFLL  
AMLVQVVREETLELGLEPLASMTQNLPLKKQGWDPVAKLAIRVGLAVVGSVLGA  
FLTTPGLRLAQTHRDALTMSEDRPMLQFLLHTSFLSPLFILWLTKPIARDFLHQPFG  
TRFSLSDSAFDSGRLWLLVVLCLRLAVTRPHLQAYLCLAKARVEQLRREAGRIEAREI  
QQRVVRVYCYVTVVSQYLTPILTLNCTLLKTLGGYSWGLGPAPLLSPDPSSASAAP  
GSGEDEVQQAARIAGALGGLTPLFLRGVLAYLIWWTAACQLLASFLGLYFHQHLA  
GSGEDEVQQAARIAGALGGLTPLFLRGVLAYLIWWTAACQLLASFLGLYFHQHLA

>sp|A6NGB0|T191C\_HUMAN Transmembrane protein 191C OS=Homo sapiens GN=TMEM191C PE=3 SV=2  
MCRATLGLPLPIVIVQPARSLPPIVTPASRRRLGPRGGRHLGSVSTAMAATQELLQLQK

DNRDGRQRKQELEKLMRGLEAESESLNQRLQDLSERERSLLRRRSQAAQPLQGEAREAAAR  
ERAERVRRRLEEAERHKEYLEQHSRQLQEWEELSSQLFYYGELQSQKSTEQQLAALV  
TLQNELELAETKCALQEELKQDALQTAEAWAIFQEQTIVLQVRPHSDAKVPPASPPDL  
GRCDGQLRGVQYSTESLMEEMARADRETRLFGGPRALAIRRCVLGALQVLLTLPLFLGL  
SLLWTVLLDPGAVSAWLWSLTSETTLRRLRYTLSPLLELRANGLLPT

>sp|P13984|T2FB\_HUMAN General transcription factor IIF subunit 2 OS=Homo sapiens GN=GTF2F2  
PE=1 SV=2

MAERGELDLTGAKQNTGVWLKVPKYLSQQWAKASGRGEVGKLRIAKTQGRTEVSFTLNE  
DLANIHDIGGKPASVSAPREHPFVLQSVGGQTLTVFTESSDKLSLEGIVVQRAECRPAA  
SENYMRLKRLQIEESSKPVRLSQQLDKVVTNYKPVANHQYNIYERKKKEDGKRARADK  
QHVLDMLSFAFEKHQYNNKDLVDITKQPVVYLKEILKEIGVQNVKGIHKNWELKPEYR  
HYQGEEKSD

>sp|Q9NYW3|TA2R7\_HUMAN Taste receptor type 2 member 7 OS=Homo sapiens GN=TAS2R7 PE=1 SV=1

MADKVQTLLFLAVGEFSVGILGNAFIGLVNCDWVKRKIASIDLILSLAISRICLLC  
VILLDCFILVLPDYATGKEMRIIDFFWTLTNHLSIWFATCLSIYFFKIGNFFHPLFL  
WMKWRIDRVISWILLGCVVLSVFISLPATENLNADFRFCVKAKRKTNLTWSCRVNKTQHA  
STKLFLNLATLLPFCVCLMSFFLLILSLRRHIRRMQLSATGCRDPSTEAHVRALKAVISF  
LLLFIAYYLSFLIATSSYFMPETELAVIFGESIALIYPSSHSFILILGNNKLRHASLKVI  
WKVMSILKGRKFQQHKQI

>sp|Q9NYJ8|TAB2\_HUMAN TGF-beta-activated kinase 1 and MAP3K7-binding protein 2 OS=Homo  
sapiens GN=TAB2 PE=1 SV=1

MAQGSHQIDFQVLHDLRQKFPEVPEVVVSRCLQNNNNLDACCAVLSQESTRYLYGEGDL  
NFSDDSGISGLRNHMTSLNLDLQSQNIYHHGREGSRMNGSRTLTHSISDGQLGGQSNSE  
LFQQEPQTAPAQVPQGFNVFGMSSSSGASNSAPHLGFHLGSKGTSSLSQQTPRFNPIMVT  
LAPNIQTGRNTPSLHIHGVPVPLNSPQGNSIYIRPYITTPGGTTRQTQQHSGWVSQFN  
PMNPQQVYQPSQPGPWTTCPASNPLSHTSSQQPNQQGHQTSHVYMPISSPTTSQPPTIHS  
SGSSQSSAHSQYNIQNIISTGPRKNQIEIKLEPPQRNNSKLRSSGPRTSSTSSSVNSQTL  
NRNQPTVYIAASPNTDELMSRSQPKVYISANAATGDEQVMRNQPTLFISTNSGASAASR  
NMSGQVSMGPAFIHHHPKSRAIGNNSATSPRVVVTQPNKYTFKITVSPNKPPAVSPGV  
VSPTFELTNLLNHPDHYVETENIQHLTDPTLAHVDRISETRKLMSGDDAAYTQALLVHQ  
KARMERLQRELEIQKKKLDKLVSEVNEMENNLTRRLKRSNSISQIPSEEMQQLRSCNR  
QLQIDIDCLTKEIDLQARGPHFNPSAIHNFYDNIGFVGPVPPKPKDQRSIIKTPKTQDT  
EDDEGAQWNCTACTFLNHPALIRCEQCEMPRHF

>sp|Q96BN2|TADA1\_HUMAN Transcriptional adapter 1 OS=Homo sapiens GN=TADA1 PE=1 SV=1

MATFVSELEAAKKNLSEALGDNVKQYWANLKLWFKQKISKEEFDLEAHRLLTQDNVHSHN  
DFLLAILTRCQILVSTPDGAGSLPWPGGSAAKPGKPKGKKLSSVRQKFDHRFQPQNPLS  
GAQQFVAKDPQDDDLKLSHTMMLPTRGQLEGRMIVTAYEHGLDNVTEEAVSAVVYAVE  
NHLKDILTSVVSRRKAYRLRDGHFKYAFGSNVTPQPYLKNSVVAYNNLIESPPAFTAPCA  
GQNPASHPPPDDAEQQAALLACSGDTLPASLPVNMVYDLFEALQVHREVIPTHTVYALN  
IERIITKLWHPNHEELQQDKVHRQRLAAKEGLLLC

>sp|Q8IZX4|TAF1L\_HUMAN Transcription initiation factor TFIID subunit 1-like OS=Homo  
sapiens GN=TAF1L PE=1 SV=1

MRPGCDLLLRAAATVTAAIMSDSDSEEDSSGGGPFTLAGILFGNISGAGQLEGESVLDDE  
CKKHLAAGLGLGLSLITELTANEELTGTGGALVNDEGWIRSTEDAVDYSIDINEVAEDES



QRHQQTMGSLQPLYHSDYDEDDYDADCEDIDCKLMPPPPPPPGPMKKDKDQDAITCVSES  
GEDIILPSIIAPSFLASEKVDFFSSYSSESEMGPEATQAESDGKLTPLAGIMQH DAT  
KLLPSVTELFPEFRPGKVLRFHLFGPGKNVPSVWRSARRKRKKHREL IQEEQIQEVECS  
VESEVSQKSLWNYDYAPPPPEQCLADDEITMMVPVESKFSQSTGDVDKVTDTKPRVAEW  
RYGPARLWYDMLGVSEDGSGFDYGFKLRKTQHEPVIKSRMMEEFRKLEESNGTDLLADEN  
FLMVTQLHWEDSIIWDGEDIKHKGTKPQGASLAGWLPSIKTRNMAYNVQQGFAPTLD DD  
KPWYSIFPIDNEDLVYGRWEDNIIWDAQAMPRLLEPPVLALDPNDENLILEIPDEKEEAT  
SNSPSKESKKESSLKKSRI LLGKTGVIREEPQQNMSQPEVKDPWNLSNDEYYFPKQQGLR  
GTFGGNIIQHSIPAMELWQPFPTHMGPIKIRQFHRPPLKKYSFGALSQPGPHSVQPLLK  
HIKKKAKMREQERQASGGGELFFMRTPQDLTGKDGLILAEYSEENGPLMMQVGMATKIK  
NYYKRKPGKDPGAPDCKYGETVYCHTSPFLGSLHPGQLLQALENNLFRAPVYLHKMPETD  
FLIIRTRQGYI IRELVDIFVVGQCPLFEVPGPNRRANMHIRD FLQVFIYRLFWSKDR  
PRRIRMEDIKKAFFSHSESSIRKRLKLCADFKRTGMDSNWWVLKSDFRLPTEEEIRAKVS  
PEQCCAYYSMIAAKQRLKDAGYGEKSFFAPEEENEEDFQMKIDDEVHAA PWNTTRAFIAA  
MKGKCLLEVTGVADPTGCGEGFSYVKIPNKPTQQKDDKEPQAVKKTVTGTDADLRRLSLK  
NAKQLLRKFGVPEEEIKKLSRWEVIDVVRTMSTEQAHSGEGPMSKFARGSRFSVAEHQER  
YKEECQRIFDLQNKVLSSTEVLSTDTDSISAEDSDFEEMGKNIENMLQNKKTSSQLSREW  
EEQERKELRRMLLVAGSAASGNHRDDVTASMTSLKSSATGHCLKIYRTFRDEEGKEYVR  
CETVRKPAVIDAYVRIRTTKDEKFIQKFALFDEKHREEMRKERRRIQEQLRRLKRNQEKE  
KLKGPPEKKPKMKERPDLKLKCGACGAIGHMRTNKFCLYYQTNVPPSKPVAMTEEQEE  
ELEKTVIHNDNEELIKVEGTKIVFGKQLIENVHEVRRKSLVLKFPKQQLPPKKRRVGT  
VHCDYLNIPHKSIIHRRRTDPMVTLSSILESIIINDMRDLPNTHPFHTPVNAKVVDYKII  
TRPMDLQTLRENVKCLYPSREEFREHLELIVKNSATYNGPKHSLTQISQSMLDLCDEKL  
KEKEDKLARLEKAINPLD DDDQVAFSFI LDNIVTQKMMAVPDSWPFHHPVNKKFVPDYY  
KMIVNPV DLETIRKNISKHKYQSRESFLDDVNLILANSVKYNGPESQYTKTAQEI VNICY  
QTITEYDEHLTQLEKDICTAKEAALEAELES LDPMTGPGYTSQPPDMYDTNTSLSTSRD  
ASVFQDESNSVLDISTATPEKQMCQGGR LGEEDSDVDVEGYDDEEEDGKPKPPAPEGG  
DGDLADEEEGT VQQPEASVLYEDLLISEGEDDEEDAGSDEEGDNPFSAIQLSESGSDSDV  
GYGGIRPKQPFMLQHASGEHKDGHGK

>sp|Q5VWG9|TAF3\_HUMAN Transcription initiation factor TFIID subunit 3 OS=Homo sapiens  
GN=TAF3 PE=1 SV=1

MCESYSRSLLRVSVAQICQALGWDSVQLSACHLLTDVLQRYLQQLGRGCHRYSELYGR TD  
PILDDVG EAFQLMGVSLHELEDYIHNI EPVTFPHQIPSPVSKNNVLQFPQPGSKDAEER  
KEYIPDYL PPIVSSQEEEEEEQVPTDGGTSAEAMQVPLEE DDELEEEIINDENFLGKRP  
LDSPEAEELPAMKRPRLLSTKGD TLDVVLLEAREPLSSINTQKIPMLSPVHVQDSTDLA  
PPSPEPPMLAPVAKSQMPTAKPLETKSFTPKTKTKTSSPGQKTKSPKTAQSPAMVGSPIR  
SPKTVSKEKKSPGRSKSPKSPKSPKVTTHIPQTPVRPETPNRTPSATLSEKISKETIQVK  
QIQTPPDAGKL NSENQPKKAVVADKTIEASIDAVIARACAERE PDPEFSSGSESEGDIF  
TSPKRISGPECTTPKASTSANNFTKSGSTPLPLSGGTSSSDNSWTMDASIDEVVRKAKLG  
TPSNMPPNFPISSPSVSPPTPEPLHKVYEEKTKLPSSVEVKKKLKELKTKMKKKEKQR  
DREREKDKNKDSKEKDKVKEKEKDKETGRETKYPWKEFLKEEEADPYKF KIKEFEDVDP  
KVVKLDGLVRKEKEKHDKKKDKREKGVKDKGREDKMKAPPLVLPPE  
LALPLFSPATASRPAMLPSLLPVLP EKLFEKEKVKEKEKKDKKEKKKKKEKEKEKE  
KEREKEKREKREKEKEKHKEKIKVEPVALAPSPVIPRLTLRVGAGQDKIVISKV VPA

PEAKPAPSQNRPKTPPPAPAPAPGPM LVSPAPVPLPLLAQAAAGPALLPSPGPAASGASA  
KAPVRSVVTETVSTYVIRDEWGNQIWICPGCNKPDDGSPMIGCDDCDDWYHWPCVGIMTA  
PPEEMQWFCPKCANKKKDKKKKKRKHRAH

>sp|Q13395|TARBP1\_HUMAN Probable methyltransferase TARBP1 OS=Homo sapiens GN=TARBP1 PE=1  
SV=1

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AREVAAGYLVPLRLSLRGRPAGGPDPSLQPRHRRRVLRAAGAALRSCVRLAGRPQLAAAL  
AEEALRDLLAGWRAPGAEEAVEVLAAGVPCLRPREDGPLLERVAGTAVALALGGGGDGDE  
AGPAEDAAALVAGRLLPVLVQCGGAALRAVWGGLAAPGASLGSGRVEEKLLVLSALAEKL  
LPEPGGDRARGAREAGPDARRCWRFWRTVQAGLGQADALTRKRARYLLQRAVEVSAELGA  
DCTCGPQEGNGPSLFWWSERKKDELLKFWENYILIMETLEGNQIHVIKPVLPKLNLFY  
AVSEENGCVLFWHSHMCIYKRMFESENKILSKEGVIHFLELYETKILPFSPEFSEFIIG  
PLMDALSESSLYSRSPGQPIGSCSPLGLKLQKFLVTYISLLPEEIKSSFLLKFIRKMTSR  
HWCAPILFLSKALANVPRHKALGIDGLLALRDVIHCTMITHQILLRGAACQYLLQTAMN  
LLDVEKVSLSDVSTFLMSLRQEESLGRGTSWTELCDWLVRNesyfkpsptcssiglhkt  
SLNAYVKSIVQEYVKS AWETGENCFMPDWFEAKLVSLMVLLAVDVEGMKTQYSGKQRT  
NVLRIFLDPLLDVLMKFSTNAYMPLLKTDRCQLQLLLKLLNTCRLKGSSAQDDEVSTVLQN  
FFMSTTESISEFILRRLTMNELNSVSDLRCHLYLMVLTELINLHLKVGWKRGNPIWRVI  
SLLKNASIQHLQEMDSGQEPTVGSQIQRVVSMAALAMVCEAIDQKPELQLDSLHAGPLES  
FLSSLQLNQTLQKPHAEQSSYAHPLECSSVLEESSSSQGWGKIVAQYIHDQWVCLSFLL  
KKYHTLIPTTGSEILEPFLPAVQMPIRTLQSALEALTVLSSDQVLPVFHCLKVLVPKLLT  
SSESLCIESFDMAWKIISSLSNTQLIFWANLKAQVQVFDNKVLTIAAKIKGQAYFKIKE  
IMYKIIEMSAIKTGVTNTLISYCCQSWIVSASNVSQGSLSSAKNYSELILEACIFGTVFR  
RDQRLVQDVQTFIENLGHDCANIVMENTKREDHYVRICAVKFLCLLDGSNMSHKLFIED  
LAIKLLDKDELVS KSKRYVNSLQHRVKNRVWQTLVLFPRLDQNFNGIIDRIFQAGF  
TNNQASIKYFIEWIIILILHKFPQFLPKFWDCFSYGEENLKTICTFLAVLSHLDIITQN  
IPEKKLILKQALIVVLQWCFNHNFSVRLYALVALKKLWTVCKVLSVEEFDALTPVIESSL  
HQVESMHGAGNAKNWQRIQEHHFFATFHPLKDYCLETIFYILPRLSGLIEDEWITIDKF  
TRFTDVPLAAGFQWYLSQTQLSKLKPGDWSQQDIGTNLVEADNQAETDVQKKIIPWNSR  
VSDLDELLFQDRAARLGKISRLIVVASLIDKPTNLGGLCRTCEVFGASVLVVGSLQCI  
SDKQFQHLVSVAEQWLPVLEVKKPQLIDYLQKKTEGYTIIGVEQTAKSLDLTQYCFPEK  
SLLLLGNEREGIPANLIQQLDVCVEIPQQGIIRSLNVHVS GALLIWEYTRQQLSHGDTK  
P

>sp|Q9NY65|TBA8\_HUMAN Tubulin alpha-8 chain OS=Homo sapiens GN=TUBA8 PE=1 SV=1

MRECISVHVGAGVQIGNACWELFCLEHGIQADGTFDAQASKINDDSFTTFFSETGNGK  
HVPRAVMIDLEPTVVDEV RAGTYRQLFHPEQLITGKEDAANNYARGHYTVGKESIDLVL  
RIRKLTDACSLGQFLIFHSFGGGTSGSFTSLLMERLSLDYGKKSLEFAIYPAPQVSTA  
VVEPYNISILTTHTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLRLISQIVSSITA  
SLRFDGALNVDLTFEQTNLVPYPRIHFLVTYAPIISA EKAYHEQLSVAEITSSCFEPNS  
QMVKCDPRHGKYMCCMLYRGDVVPKDVNVAIAAIKTKRTIQFVDWCPTGFKVGINYQPP  
TVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDL MYAKRAVHWYVGE GMEEGEFSE  
AREDLAALEKDYEEVGTDSFEEENE GEEF

>sp|Q13885|TBB2A\_HUMAN Tubulin beta-2A chain OS=Homo sapiens GN=TUBB2A PE=1 SV=1

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGSDQLQLERINVYYNEAAGNKYV

PRAILVDLEPGTMDSVRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVV  
RKESESCDCLQGFQLTHSLGGGTGSGMGTLISKIREEYPDRIMNTFSVMPSPKVSDTVV  
EPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTPPTYGDLNHLVSATMSGVTTC  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTPPELTQQMFDSKNMM  
AACDPRHGRYLTVAEIFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRG  
LKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
EYQQYQDATADEQGEFEEEEGEDEA

>sp|Q9Y4P3|TBL2\_HUMAN Transducin beta-like protein 2 OS=Homo sapiens GN=TBL2 PE=1 SV=1

MELSQMSELMGLSVLLGLLALMATAAVARGWLRAGEERSGRPACQKANGFPDPKSSGSKK  
QKQYQIRKEKPQQHNFTHRLAAALKSHSGNISCMDFSSNGKYLATCADDRTIRIWSK  
DFLQREHRSMRANVELDHATLVRFSPDCRAFIWLANGDTLRVFKMTKREDGGYTFTATP  
EDFPKKHKAPVIDIGIANTGKFIMTASSDITVLIWSLKGQVLSTINTNQMNNTAAVSPC  
GRFVASCGFTPDVKVWEVCFGKKGEFQEVVRAFELKGHSAVHSFAFSNDSRRMASVSKD  
GTWKLWDTDVEYKKKQDPYLLKTGRFEEAAGAAPCRLALSPNAQVLALASGSSIHLYNTR  
RGEKEECFERVHGEICANLSFDITGRFLASCGDRAVRLFHNTPGHRAMVEEMQGHKLRAS  
NESTRQRLQQQLTQAQETLKSGLGALKK

>sp|P20226|TBP\_HUMAN TATA-box-binding protein OS=Homo sapiens GN=TBP PE=1 SV=2

MDQNNSLPPYAQGLASPGAMTPGPIFSPMPYGTGLTPQPIQNTNSLSILEEQQRQQQ  
QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQAVAAAQQSTSQQATQGTSGQAPQ  
LFHSQTLTTAPLPGTTPLYSPMTPMTPITPATPASESSGIVPQLQNIIVSTVNLGCKLDL  
KTIALRARNAEYNPKRFAAVIMRIREPRTTALIFSSGKMVCTGAKSEEQSRLAARKYARV  
VQKLGFPAKFLDFKIQNMVGS CDVKFPIRLEGLVLTHQQFSSYEPELFPGLIYRMIPRI  
VLLIFVSGKVVLTGAKVRAEIEAFENIYPIILKGFRKTT

>sp|Q3YBR2|TBRG1\_HUMAN Transforming growth factor beta regulator 1 OS=Homo sapiens  
GN=TBRG1 PE=1 SV=1

MSLLDGLASSPRAPLQSSKARMKKLPKKSQNEKYRLKYLRKAATVFENAAICDEIA  
RLEEKFLKAKEERRYLLKKLLQLQALTEGEVQAAAPSHSSSLPTYGVASSVGTIQGAGP  
ISGPSTGAEEPFGKTKKEKKEKGENNKLEVLKKTCKKKKMAGGARKLVQPIALDPSPGR  
PVFPIGLGGLTVYSLGEIITDRPGFHDESAIYPVGYCSTRIYASMKCPDQKCLYTCQIKD  
GGVQPQFEIVPEDDPQNAIVSSADACHAELLRTISTTMGKLMNP LLPAGADFFGF SHPA  
IHNLIQSCPGARKCINYQWVKFDVCKPGDGLPEGLPENDAAMSFEAFQRQIFDEDQNDP  
LLPGSLDLPQLPAAVSSYPMYLTHEPLVDTHLQHLKSPSQGSP IQSSD

>sp|P78371|TCPB\_HUMAN T-complex protein 1 subunit beta OS=Homo sapiens GN=CCT2 PE=1 SV=4

MASLSLAPVNIFKAGADEERAETARLTSFIGAIAIGDLVKSTLGPKGMDKILLSSGRDAS  
LMVTNDGATILKNIGVDNPAKVLVDMSRVQDDEVGDGTSVTVLAAELLREAESLIAKK  
IHPQTIIAGWREATKAAREALLSSAVDHGSDEVKFRQDLNMIAGTTLSSKLLTHHKDHFT  
KLAVEAVLRKSGSNLEAIIH IKKLGGLADSYLDEGLLDKKIGVNQPKRIENAKILIA  
NTGMDTDKIKIFGSRVRVDSTAKVAEIEHAEKEKMEKVERILKHGINCFINRQLIYNYP  
EQLFGAAGVMAIEHADFAGVERLALVTGGEIASTFDHPELVKLGSKLIEEVMIGEDKLI  
HFGSGVALGEACTIVLRGATQQILDEAERSLHDALCVLAQTVKDSRTVYGGGCSEMLMAHA  
VTQLANRTPGKEAVAMESYAKALRMLPTIIADNAGYDSADLVAQLRAAHSEGNTTAGLDM  
REGTIGDMAILGITESFQVKRQVLLSAAEAAEVILRVDNIIKAAPRKRPDPHHP

>sp|P48643|TCPE\_HUMAN T-complex protein 1 subunit epsilon OS=Homo sapiens GN=CCT5 PE=1  
SV=1

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>sp|Q92526|TCPW\_HUMAN T-complex protein 1 subunit zeta-2 OS=Homo sapiens GN=CCT6B PE=1  
SV=5

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>sp|Q5JU00|TCTE1\_HUMAN T-complex-associated testis-expressed protein 1 OS=Homo sapiens  
GN=TCTE1 PE=2 SV=1

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>sp|Q13569|TDG\_HUMAN G/T mismatch-specific thymine DNA glycosylase OS=Homo sapiens GN=TDG  
PE=1 SV=2

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>sp|B5MCY1|TDR15\_HUMAN Tudor domain-containing protein 15 OS=Homo sapiens GN=TDRD15 PE=2  
SV=1

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>sp|Q8NAT2|TDRD5\_HUMAN Tudor domain-containing protein 5 OS=Homo sapiens GN=TDRD5 PE=1  
SV=3

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>sp|Q15562|TEAD2\_HUMAN Transcriptional enhancer factor TEF-4 OS=Homo sapiens GN=TEAD2  
PE=1 SV=2

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>sp|Q6NUS6|TECT3\_HUMAN Tectonic-3 OS=Homo sapiens GN=TCTN3 PE=1 SV=2

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>sp|075443|TECTA\_HUMAN Alpha-tectorin OS=Homo sapiens GN=TECTA PE=1 SV=3

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>sp|Q9UIK5|TEFF2\_HUMAN Tomoregulin-2 OS=Homo sapiens GN=TMEFF2 PE=1 SV=1

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>sp|Q9UKZ4|TEN1\_HUMAN Teneurin-1 OS=Homo sapiens GN=TENM1 PE=1 SV=2

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>sp|P24821|TENA\_HUMAN Tenascin OS=Homo sapiens GN=TNC PE=1 SV=3

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NLTVTEVSWDALRLNWTTPDGTQYDQFTIQVQEADQVEEAHNLTPVPSLRSM EIPGLRAGT  
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VQEVNKVEAAQNLTPVPSLRAVDIPGLEAATPYRVSIYGVIRGYRTPVLSAEASTAKEPE  
IGNLNVSDITPESFNL SMMATDGIFETFTIEIIDS NRLLTVEYNISGAERTAHISGLPP  
STDFIVYLSGLAPSIRTKTISATATTEALPLENLTISDINPYGFTVSWMASENAFDSFL  
VTVVD SGKLLDPQEFTLSGTQRKLELRGLITGIGYEVMSGFTQGHQTKPLRAEIVTEAE  
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REATEYEIELYGISKGRRSQTVSAIATTAMGSPKEVIFSDITENSATVSWRAPTAQVESF  
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GPSGLVTANITDSEALARWQPAIATVDSYVISYTGKVP EITRTVSGNTVEYALTDLEPA  
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YESVDGTVKEVIVGPDTSYS LADLSPSTHYTAKIQALNGPLRSNMIQTIFTTIGLLYPF  
PKDCSQAMLNGDTSGLYTIYLNKD KAELEVFCDMTSDGGGWIVFLRRKNGRENFYQNW  
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>sp|Q16473|TENXA\_HUMAN Putative tenascin-XA OS=Homo sapiens GN=TNXA PE=5 SV=2

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RLSWVAQGPFDSFVVQYEDTNGQPQALLVDGDQSKILISGLEPSTPYRFLLYGLHEGKR  
LGPLSAEGTTGLAPAGQTSEESR PRLSQLSVTDVTTSSLRLNWEAPPGAFDSFLLRFGVP  
SPSTLEPHPRLLQRELMVPGTRHSAVLRDLRSGTLYSLTLYGLRGP HKADSIQGTARTL  
SPVLESPRDLQFSEIRETS AKVNWMPPPSRADSFKVSYQLADGGEPQSVQVDGRARTQKL  
QFLTVPHSCVH

>sp|P55072|TERA\_HUMAN Transitional endoplasmic reticulum ATPase OS=Homo sapiens GN=VCP  
PE=1 SV=4

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DTVEGITGNLFEVYLKPYFLEAYRPIRKGDIFLVRGGMRAVEFKV VETDPSPYCIVAPDT  
VIHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLRHPALFKAIGVKPPRG  
ILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESESNL RKAFFEEAEKNAPAI  
IFIDELDAIAPKREKTHGEVERRIVS QLLTMDGLKQRAHVIVMAATNRPN SIDPALRRF  
GRFDREVDIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAL  
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GLEVDKRELQELVQYPVEHPDKFLKFGMTPSKGVLFGPPGCGKTLLAKAIANECQANFI  
SIKGPELLTMWFGESEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV  
INQILTEMDGMSTKKNVFIIGATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKAN  
LRKSPVAKDVDLEFLAKMTNGFSGADLTEICQRACKLAIRESEIESEIRRERERQTNPSSAM  
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>sp|Q12789|TF3C1\_HUMAN General transcription factor 3C polypeptide 1 OS=Homo sapiens  
GN=GTf3C1 PE=1 SV=4

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LLLLNRFHVDRRSKYDILMEKLSVMLSTRTNHIETLGKLEELGLCERTFKRLYQYMLNA  
GLAKVVSRLQEIHPGCGCKTKKGTDMVVRCLKLLKEFKRNDHDDDEDEEVISKTVPPV  
DIVFERDMLTQTYDLIERRGTKGISQAEIRVAMNVGKLEARMLCRLLRFKVVKGFMEDE  
GRQRTTKYISCVFAEESDLRQYQREKARSELLTTVSLASMQEESLLPEGEDTFLSESDS  
EEERSSSKRRGRSGQKDRASANLRPKTQPHHSTPTKGGWKVNLHPLKKQPPSFPAAE  
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RYIVKNPQAYLNYKVCLAIEVYQDKALVGDFMNRREGDYDDPKVCANEFKEFVEKLKEKFSS  
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DSQMSYSQSFQTRLYREYKDHVLVKAFMECQKRSLVNRNRVNHTLGPKKNRALPFVPMS  
YQLSQTYRYIFTWRFPSTICTESFQFLDRMRAAGKLDQPDRTSFKDQDNNEPTNDMVAFS  
LDGPGGNCVAVLTLFSLGLISVDVRIPEQIIIVDSSMVENEVIKSLGKDGSLDEDEDEED  
DLDEGVGGKRRSMEVKPAQASHTNYLLMRGYYSPIVSTRNLNPNDIIVVNSCQMKFQLR  
CTPVPARLRPAAAPLEELTMGTSCLPDTFTKLINPQENTCSLEEFVLQLELSGYSPEDLT  
AALEILEAIIATGCGFIDKEELRRRFSALEKAGGGRTRTFADCIQALLEQHVLVGGNT  
ARLVAMGSAWPWLHSHVRLKDREDADIQREDPQARPLEGSSSEDSPPGQAPPSPHSPRGT  
KRRASWASENGETDAEGTQMPAKRPALQDSNLAPSLGPGAEDGAEQAQSPPPPAEDTA  
AAGAAQEDQEGVGEFSSPGQEQLSGQAQPPGESDPRGFTESFGAANISQAARERDCESV  
CFIGRPWRVVDGHLNLPVCKGMMEAMLYHIMTRPGIPESLLRHYQGVLPVAVLELLQG  
LES LGCIRKRWLRKPRPVSLFSTPVVEEVEVPSSLDESPMAFYEPTLDCTLRLGRVFPHE  
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>sp|Q969F1|TF3C6\_HUMAN General transcription factor 3C polypeptide 6 OS=Homo sapiens  
GN=GTF3C6 PE=1 SV=1

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VFAGEYEDTLGTCVIFEENVEHADTEGNNKTVLKVKCHTMKKLSMTRTLLTEKKEGEENI  
GGVEWLQIKDNDFSYPNMI CNFLHENEDEEVVASAPDKSLELEEEEIQMNDSSNLSCEQ  
EKPMHLEIEDSGPLIDIPSETEGSVFMETQMLP

>sp|Q9NQB0|TF7L2\_HUMAN Transcription factor 7-like 2 OS=Homo sapiens GN=TCF7L2 PE=1 SV=2

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DSEAERRPPRSESRDKSRESLEEAAKRQDGGLFKGPPYPGYPFIMIPDLTSPYLPNGS  
LSPTARTLHFQSGSTHYSAYKTIHQIAVQYLQMKWPLLDVQAGSLQSRQALKDARSPSP  
AHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPHLPADVDPKTGIPRPPHPPDIS  
PYYPSPGTVGQIPHPLGLVPPQQGPVYPITTGGRHPYPTALTVNASMSRFPHPMVPP  
HHTLHTTGIPHPAIVTPTVKQESSQSDVGSLSHSSKHQDSKKEEEKKKPHIKKPLNAFMLY  
MKEMRAKVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSAR  
DNYGKKKKRKRDKQPGETNEHSECFNPLCLSLPPI TDLSAPKKCRARFGLDQQNNWCGPC  
RRKKKCVRYIQEGESCLSPSSDGSLLDSPPPSPNLLGSPPRDAKSQTEQTQPLSLSLKP  
DPLAHLMSMPPPPALLLAEATHKASALCPNGALDLPPAALQPAAPSSSIAQPSTSSLHSH  
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>sp|P26640|SYVC\_HUMAN Valine--tRNA ligase OS=Homo sapiens GN=VARS PE=1 SV=4

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LRSSAQDPQAVLGALGRALSPLEEWRLHTYLAGEAPTLADLAAVTALLLPFRYVLDPPA  
RRIWNNVTRWFVTCVRQPEFRAVLGEVVLVYSGARPLSHQGPPEAPALPKTAAQLKKEAKK  
REKLEKFQKQKIQQQQPPGEEKPKPEKREKRDPGVITYDLTPPGEEKKDVSGMPDPSY  
SPRYVEAAWYPWWEQGFKEPYGRPNVSAANPRGVFMMCIPPNVTGSLHLGHALTNAI  
QDSLTRWHRMRGETTLWNPGCDHAGIATQVVVEKKLWREQLSRHLGREAFLEWVKWK  
EEKGDRIYHQLKKGSSLDWDACFTMDPKLSAAVTEAFVRLHEEGIIYRSTRLVNWSCT  
LNSAISDIEVDKKELTGRTLLSVPGYKEKVEFGVLVSFAYKVQGSDEEVVVATRIET  
MLGDVAVAVHPKDTRYHQLKGKNVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQND  
YEVGQRHGLEAISIMDSRGALINVPFPGLPRFEARKAVLVALKERGLFRGIEDNPMVV  
PLCNRSKDVVEPLLRQWYVRCGEMAQAASAAVTRGDLRILPEAHQRTWHAWMDNIREWC  
ISRQLWWGHRIPAYFVTSDPAVPPGEDPDGRYVWVSGRNEAEAREKAAKEFGVSPDKISL  
QQDEDVLDTWFSGLFPLSILGWPNQSEDLSVFYPGTLLTGHDI LFFWARMVMLGLKL  
TGRLPFREYVLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPSEVE  
KAKEGQKADFPAGIPEGTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNATKFA  
LRGLGKGFVPSPTSQPGGHESLVDRWIRSRLTEAVRLSNQGFQAYDFPAVTTAQYSFWLY  
ELCDVYLECLKPVLNGVDQAAECARQTLTYTCLDVGLRLLSPFMPFVTEELFQRLPRRMP  
QAPPSLCVTPYPEPSECSWKDPEAAALELALSITRAVRSRADYNLTRIRPDCFLEVAD  
EATGALASAVSGYVQALASAGVVAVLALGAPAPQGCAVALASDRCSIHLQLQGLVDPARE  
LGKLQAKRVEAQRQAQRLRERRAASGYPVKVPLEVQEAEAKLQQTEAELRKVDEAIALF  
QKML

>sp|P48230|T4S4\_HUMAN Transmembrane 4 L6 family member 4 OS=Homo sapiens GN=TM4SF4 PE=1  
SV=1

MCTGGCARCLGGTLIPLAFFGFLANILLFFPGGKVIDDNDHLSQEIWFFGGILSGVLM

FPALVFLGLKNNDCGCCGNEGCGKRFAMFTSTIFAVVGFLGAGYSFIISAISINKGPKC  
LMANSTWGYPFHDGYLNDALWNKREPLNVVPWNLTLSILLVGGIQMVLCIAIQVNV  
GLLGTLCGDCQCCGCCGGDGPV

>sp|014894|T4S5\_HUMAN Transmembrane 4 L6 family member 5 OS=Homo sapiens GN=TM4SF5 PE=2  
SV=2

MCTGKCARCVGLSLITLCLVCIVANALLVPNGETSWTNTNHLSQLVWLMGGFIGGGLMV  
LCPGIAAVRAGGKCCGAGCCGNRCMLRSVFSSAFGVLGAIYCLSVSGAGLRNGPRCLM  
NGEWGYHFEDTAGAYLLNRTLWDRCEAPRVVPWNVTLSLLVAASCLEIVLCGIQLVNA  
TIGVFCGDCRKKQDTPH

>sp|Q86VP1|TAXB1\_HUMAN Tax1-binding protein 1 OS=Homo sapiens GN=TAX1BP1 PE=1 SV=2

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RDYYTFLWSPMPEHYVEGSTVNCVLAFQGYLNPNDGEFYQFCYVTHKGEIRGASTPFQF  
RASSPVEELLTMEDEGNSDMLVVTTKAGLLELKEKTMTKEKEELLKLIIVLEKETAQLRE  
QVGRMERELNHEKERCDQLQAEQKGLTEVTQSLKMENEEFKRFSDATSKAHQLEEDIVS  
VTHKAIEKETELDSLKDKLKAQHEREQECQLKTEKDEKELYKVHLKNTIEIENTKLMSE  
VQTLKNLDGNKESVI THFKEEIGRLQLCLAEKENLQRTFLLTTSSKEDTCFLKEQLRKA  
EQVQATRQEVVFLAKELSDAVNVDRDTMADLHTARLENEKVKKQLADAVAEKLNAMKKD  
QDKTDTLEHELRRVEDLKLRLQMAADHYKEKFKECQRLQKQINKLSDQSANNNNVFTKK  
TGNQQKVNDASVNTDPATSASTVDVKPSPSAAEADFIVTKGQVCEMTKEIADKTEKYNK  
CKQLLQDEKAKCNKYADELAKMELKWKEQVKIAENVKLELAEVQDNYKELKRSLENPAER  
KMEGQNSQSPQCFTKCEQNGYVLTLSNAQPVLQYGNPYASQETRDGADGAFYPDEIQR  
PVRVPSWGLEDNVCSQPARNFSRPDGLSEDSKEDENVPTAPDPPSQHLRGHTGFCF  
DSSFVDVHKCPLCELMFPPNYDQSKFEEHVESHWVKVCMCSEQFPDQVFERHVQTH  
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>sp|Q9BXI6|TB10A\_HUMAN TBC1 domain family member 10A OS=Homo sapiens GN=TBC1D10A PE=1  
SV=1

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IVGSQGAEGALEEVPLEVLRQRESKWLDMNNWDKWMMAKHKKIRLRCQKGIPPSLRGRA  
WQYLSGGKVKLQNPQKFDLDMSPGDPKWLDVIERDLHRQFPFHEMFVSRGGHGQQDLF  
RVLKAYTLYRPEEGYCQAQAPIAAVLLMHMPAEQAFWCLVQICEKYLPGYSEKLEAIQL  
DGEILFSLQKVSPVAHKHLSRQKIDPLLYMTEWFMCAFSRTLWPSSVLRVWDMFFCEGV  
KIIFRVGLVLLKHALGSPEKVKACQGQYETIERLRSLSPKIMQEAFLVQEVVELPVT  
IEREHLIQLRRWQETRGEQCRSPRLHGAKAILDAEPGPRPALQSPSIRLPLDAPLPG  
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PQDLAPQVSAHRSQESLTSQESSEDYTL

>sp|POCG35|TB15B\_HUMAN Thymosin beta-15B OS=Homo sapiens GN=TMSB15B PE=1 SV=1  
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>sp|Q9COC2|TB182\_HUMAN 182 kDa tankyrase-1-binding protein OS=Homo sapiens GN=TNKS1BP1  
PE=1 SV=4

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EAGKEEPPPLTPPARCAAPGGVRKAPAPFRPASERFAATTVEEILAKMEQPRKEVLASPD  
RLWGSRLTFNHDGSSRYGPRTYGTTTAPRDEDGSTLFRGWSQEGPVKSPAECREEHSKTP  
EERSLPSDLAFNGDLAKAASSELPAISKWPWPSSPAPSSENGGPASPGLPAEASGSGPG

SPHLHPPDKSSPCHSQLLEAQTPEASQASPCPAVTPSAPSAALPDEGSRHTPSPGLPAEG  
APEAPRPSSPPPEVLEPHSLDQPPATSPRPLIEVGELLDLTRTFPSGGEEEAKGDAHLRP  
TSLVQRRFSEGLVQSPSQDQEKLGSLAALPQQGSQLALDRPFGAESNWSLSQSFEWTF  
PTRPSGLGVWRDSSPPSPITEASEAAEAEAGNLAVSSREEGVSQQGQAGSAPSGSGS  
SWVQGDDPSMSLTQKGDGESQPQFPAVPLEPLPTTEGTPGLPLQQAEEERYESQEPLAGQE  
SPLPLATREAALPILEPVLGQEQPAAPDQPCVLFADAPEPGQALPVEEEAVTLARAETTQ  
ARTEAQDLCRASPEPPGPESSRWLDDLLASPPPSGGGARRGAGAELKDTQSPSTCSEGL  
LGWSQKDLQSEFGITGDPQPSSFSPPSSWCQGASQDYGLGGASPRGDPGLGERDWTISKYGG  
GAGEGSTREWASRCGIGQEEMEASSSQDQSKVSAPGVLTAQDRVVGKPAQLGTQRSQEAD  
VQDWEFRKRDSQGTYSRDAELQDQEFGKRDSLGTYSRDSVSLGDWEFGKRDSLAYASQ  
DANEQGDQLGRDHHGRYSSQDADEQDWEFQKRDVSLGTYSRAAEPQEQEFGKSAWIRD  
YSSGSSRTLDAQRSFGTRPLSSGFSPEEAQQQDEEFKKIPSVEDSLGEGSRDAGRPG  
ERGGGLFSPSTAHPDGLGQRDQSSWQNSDASQEVGGHQRQQAGAQGPSADLEDGE  
MGKRGWVGEFSLSVGPQREAAFSPPGQDWSRDFCIEASERSYQFGIIGNDRVSGAGFSPS  
SKMEGGHFVPPGKTTAGSVDWTDQLGLRNLEVSSCVSGGSSEARESAGVQMGWSGGLSL  
RDMNLGTCLESGGSEEPGGIGVGEKDWTSDVNVKSKDLAEVGGGGHSQARESGVGQTDW  
SGVEAGEFLKSRERGVGQADWTPDLGLRNMAPGAVCSPGESKELGVGQMDWGNLGLRDL  
EVTCDPDSGGSQGLRGCGVQMDWTQDLAPQNVLEFGAPSEAREHVGGVVSCPEPGLRH  
NGSLSPGLEARDPLEARELGVGETSGPETQGEDYSSSSLEPHPADPGMETGEALSFGASP  
GRCPARPPPSGSQGLLEEMLAASSSKAVARRESAASGLGGLLEEGAGAGAAQEEVLEPG  
RDSPPSWRPQPDGEASQTEDVDGTWGSSAARWSDQGPAQTSRRPSQGP PARSPSQDFSI  
EDTEILDSAMYRSRANLGRKRGRHAPVIRPGGTGLGLSEAADSDAHLFQDSTEPRASRVPS  
SDEEVVEEPQSRRTMSLGTKGLKVNLFPGLSPSALKAKLRPRNRSAAEEGELAESKSSQK  
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>sp|Q96DN5|TBC31\_HUMAN TBC1 domain family member 31 OS=Homo sapiens GN=TBC1D31 PE=1 SV=2

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WMRGHESSVFSISVHASGKYAITTSSDTAQLWDLDTFQRKRKLNIRQSVGIQKVFFLPLS  
NTILSCFKDNSIFAWECDTLFCYQLPAPPESSILYKVFAVTRDGRILAAGGKSNHLHL  
WCLEARQLFRIIQMPTKVRAIRHLEFLPDSFDAGSNQVLGVLSDGIMRFINMQTKLLF  
EIGSLDEGISSAISPHGRYIASIMENGLNIYSVQALTQEINKPPPPLVKVIEDLPKNK  
LSSDLKMKVTSGRVQQPAKSRESKMQTRILKQDLTGDFESKKNELPDGLNKKRLQILLK  
GYGEYPTKYRMFIWRSLQLPENHTAFSTLIDKGTHVAFNLQKKYPIKSRKLLRVLQRT  
LSALAHWSVIFSDTPYLPLLAFFVKLFQNNQLICFEVIATLIINWCQHWFEYFPNPPIN  
ILSMIENVLAFHDKELLQHFIDHDITSQLYAWPLETVFSEVLTREEWLKLFDNIFSNHP  
SFLMTVVAYNICSRTPLLSCNLKDDFEFFHHRNNLDINNVIRQVYHLMETTPTDIHPD  
SMLNVFVALTKGQYPVFNQYPKFIVDYQTQERERIRNDEL DYL RERQTVEDMQAKVDQQR  
VEDEAWYQKQELLRKAEE TRREMLLQEE EKMIQQRQLAAVKRELKV KEMHLQDAARRRF  
LKLQQDQ QEMELRRLDDEIGRKVYMRDREIAATARDLEMRQLELESQKRLYEKNLTENQE  
ALAKEMRADADAYRRKVDLEE HMFHKLIEAGETQSQKTQKV IKENLAKAEQACLNTDWQI  
QSLHKQKCDLQRNKCYQEVAKLLRENRRKEIEIINAMVEEEAKKWKEAEGKEFRLRSK  
KASALSDASRKWFLKQEINAAVEHAENPCHKEEPRFQNEQDSSCLPRTSQLNDSSEMDPS  
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>sp|AOA087X179|TBC3E\_HUMAN TBC1 domain family member 3E OS=Homo sapiens GN=TBC1D3E PE=2 SV=1

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KLKNPGRYQIMKEKGKKSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEY  
NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLGGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKKGDLPPP  
AKPEQGSSASRPVPASRGKTLCKGDRQAPPGPAPRPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDLVEGPWFRHYDFRQSCWV  
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>sp|B9A6J9|TBC3L\_HUMAN TBC1 domain family member 3L OS=Homo sapiens GN=TBC1D3L PE=2 SV=1

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KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEY  
NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLGGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQDLQPP  
AKPEQGSSASRPVPASRGKTLCKGDRQAPPGPAPRPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDLVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSQGTTPFRARDEQPCAPTSGPCLCGLHL  
ESSQFPPGF

>sp|Q15813|TBCE\_HUMAN Tubulin-specific chaperone E OS=Homo sapiens GN=TBCE PE=1 SV=1

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KQSQSLSKLQEVSLRNCAVSCAGEKGGVAEACPNIRKVDLSKNLSSWDEVIHIADQLRH  
LEVLNSENKLFPSGSVLGTLSVLKVLNLNQTGITWAEVLRVAGCPGLEELYLESNN  
IFISERPTDVLQTVKLLDLSSNQLIDENQLYLIAHLPRLEQLILSDTGISSLHFPDAGIG  
CKTSMFPSLKYLVDNDNISQWSFFNELEKLPRLSCLRNPLTKEDKEAETARLLIIA  
SIGQLKTLNKCEILPEERRRAELDYRKAFGNEWKQAGGHKDPEKNRLEEFLTAHPRYQF  
LCLKYGAPEDWELKTQQLMLKNQLLTLKIKYPHQLDQKVLEKQLPGSMTIQKVKGLLSR  
LLKVPVSDLLLSYESPKKPGREIELENDLKSLLQFYSVENGDCLLVRW

>sp|075333|TBX10\_HUMAN T-box transcription factor TBX10 OS=Homo sapiens GN=TBX10 PE=2 SV=2

MAAFLSAGLGILAPSETYPLPTTSSGWEPRLGSPFPGPCTSSSTAQAVAEPGQGPKNP  
RVSRVTQVLEMKPLWEEFNQLGTEMIVTKAGRRMFPPFQVKILGMDSLADYALLMDFIPL  
DDKRYRYAFHSSAWLVAGKADPATPGRVHFHPDSPAAGQWVRQIVSFDKLLTNLLDD  
NGHIILNSMHRYQPRFHVVDPRKDSERYAQENFKSFIFTETQFTAVTAYQNHRITQLK  
IASNPFAKGFRESLDLSDWPVAPRPLLSVPARSHSSLSPCVLKGATDREKDPNKASASTSK  
TPAWLHHQLLPPEVLLAPATYRPVITYQSLYSGAPSHLGIPTRPAPYPLPNIRADRDQG  
GLPLPAGLGLLSPTVVCLGPGQDSQ

>sp|Q96SF7|TBX15\_HUMAN T-box transcription factor TBX15 OS=Homo sapiens GN=TBX15 PE=1 SV=2

MSERRRSAVALSSRAHAFSVEALIGSNKKRKL RDWEEKGLDLSMEALSPAGPLGDTEDAA  
AHGLEPHPDSEQSTGSDSEVL TERTSCSFSTHTDLASGAAGPVPAAMSSMEEIQVELQCA  
DLWKRFDHIGTEMIITKAGRRMF PAMRVKITGLDPHQYYIAMDIVPDNKRYRYVYHSS  
KWMVAGNADSPVPPRVYIHPDSLASGDTWMRQVVSFDKLKLTNNELDDQGHII LHSMHKY  
QPRVHVIRKDFSSDLSP TKPVVGDGVKTFNFPETVFTTVTAYQNNQITRLKIDRNPFAK  
GFRDSGRNRTGLEAIMETYAFWRPPVRTLT FEDFTTMQKQQGGSTGTSPTTSSTGTPSPS  
ASSHLLSPSCSPPTFHLAPNTFNVGCRESQLCNLNLSDYPPCARSNMAALQSYPLSDSG  
YNRLQSGTTSATQPSETFMPQRTPSLISGIPTPSLPGNSKMEAYGGQLGSFPTSQFQYV  
MQAGNAASSSSSPHMFGGSHMQQSSYNAFSLHNPYNLYGYNFPTSPRLAASPEKLSASQS  
TLLCSSPSNGAFGERQYLP SGMEHSMHMISPSPNQATNTCDGRQYGAVPGSSSQMSVH  
MV

>sp|095935|TBX18\_HUMAN T-box transcription factor TBX18 OS=Homo sapiens GN=TBX18 PE=1  
SV=3

MAEKRRGSPCSMLSLKAHAFSVEALIGA EKQQQLQKKRRKLGAEAAAGAVDDGGCSRGGG  
AGEKGSSEGEDEGAALPPPAGATSGPARSGADLERGAAGGCEDGFQQGASPLASPGGSPKG  
SPARSLARPGTPLPSPQAPRVDLQGAELWKRFEIGTEMIITKAGRRMF PAMRVKISGLD  
PHQYYIAMDIVPDNKRYRYVYHSSKWMVAGNADSPVPPRVYIHPDSPASGETWMRQVI  
SFDKLKLTNNELDDQGHII LHSMHKYQPRVHVIRKDCGDDLSP IKPVPSGEGVKAFSFPE  
TVFTTVTAYQNNQITRLKIDRNPFAKGFRDSGRNRMGLEALVESYAFWRPSLRTLTFEDI  
PGIPKQGNASSSTLLQGTGNGVPATHPHLLSGSSCSSPAFHLGPNTSQLCSLAPADYSAC  
ARSGLTNRYSTSLAETYNRLTNQAGETFAPRTPSYVGVSSSTSVNMSMGTDGDTFSC  
PQTSLSMQISGMSPQLQYIMPSPSSNAFATNQTHQGSYNTFRLHSPCALYGYNFSTSPKL  
AASPEKIVSSQGSFLGSSPSGTM TDRQMLPPVEGVHLLSSGGQQSFFDSRTLGS LTLSSS  
QVSAH MV

>sp|Q9UMR3|TBX20\_HUMAN T-box transcription factor TBX20 OS=Homo sapiens GN=TBX20 PE=1  
SV=4

MEFTASPKPQLSSRANAFSIAALMSSGGSKEKEATENTIKPLEQFVEKSSCAQPLGELTS  
LDAHGEFGGGSGSSPSSSLCTEPLIPTPIIPSEEMAKIACSLETKELWDKFHELGT  
EMIITKSGRRMFPTIRVSFSGVDPEAKYIVLMDIVPDNKRYRYAYHRSSWL VAGKADPPLP  
ARLYVHPDSPFTGEQLLKQMV SFEKVKL TNNELDQHGHIILNSMHKYQPRVHI IKKKDHT  
ASLLNLKSEEFRTFIFPETVFTA VTAYQNLITKLKIDSNPFAKGFRDSSRLTDIERESV  
ESLIQKHSYARSPIRTYGGEEDVLGDESQTTPNRGSFTTSDNLSLSSWSSSSSFPGFQ  
HPQSLTALGTSTASIATPIPHPIQGS LPPYSRLGMPLTPSAIASSMQSGPTFPSFHMPR  
YHHYFQQGPYAAIQGLRHSSAVMTPFV

>sp|015119|TBX3\_HUMAN T-box transcription factor TBX3 OS=Homo sapiens GN=TBX3 PE=1 SV=4

MSLSMRDPVIPGTSMAYHPFLPHRAPDFAMSAVLGHQPPFFPALTLPPNGAAALSLPGAL  
AKPIMDQLVGAAETGIPFSSLGPQAHLRPLKTMEEEEVEDDPKVHLEAKELWDQFHKRG  
TEMVITKSGRRMFPPFKVRCGLDKKAKYILLMDIIAADDCRYKFHNSRWMVAGKADPEM  
PKRMYIHPDSPATGEQWMSKVTFHKLKLTNNISDKHGFTLAFPSDHATWQGNYSFGTQT  
ILNSMHKYQPRFHIVRANDILKLPYSTFRTYLFPETEFIAVTAYQNDKITQLKIDNNPFA  
KGFRDTGNGRREKRKQLTLQSMRVFDERHKKENGTSDESSEQA AFNCFAQASSPAASTV  
GTSNLKDLCPSEGSDAEAESKEEHGPEACDAAKISTTTSEEP CRDKGSPAVKAHLFAAE  
RPRDSGRLDKASPSRHS PATISSSTRGLGAEERRSPVREGTAPAKVEEARALPGKEAFA  
PLTVQTDA AAAHLAQGPLPGLGFAPGLAGQQFFNGHPLFLHPSQFAMGGAFSSMAAAGMG

PLLATVSGASTGVSGLDSTAMASAAAAQGLSGASAATLPFHLQQHVLASQGLAMSPFGSL  
FPYPYTYMAAAAAASSAAASSSVHRHPFLNLNLTMRPRLRYSPYSIPVPVPDGSLLTAL  
PSMAAAAGPLDGKVAALAASPASVAVDSGSELNSRSTLSSSSMSLSPKLCAEKEAATSE  
LQSIQRLVSGLEAKPDRSRASAP

>sp|Q8N7M0|TC1D1\_HUMAN Tctex1 domain-containing protein 1 OS=Homo sapiens GN=TCTEX1D1  
PE=1 SV=2

MMMSDNAKGRAAHSWKKRGSISLSNHEFWRKEIHGRIKDSMSTVSYMEEPSQRDDISRL  
TVQMENTYQLGPPKHFPVTVNHILKDVTSYLQVEEYEPCLCRQMTKTISEVIKAQVKD  
LMIPRYKLIVIVHIGQLNRQSILIGSRCLWDPKSDTFSSYVFRNSSLFALANVYAVYLE

>sp|Q5H9L2|TCAL5\_HUMAN Transcription elongation factor A protein-like 5 OS=Homo sapiens  
GN=TCEAL5 PE=1 SV=1

MEKLYKENEGKPENERNLESEKPEDEGSTEDEGKSDEEEKPDMEGKTECEGKREDEGEP  
GDEGQLEDEGNQEKQKSGEDKPKSEGKPPASQAKPESQPRAAEKRPADYVPRKAKRKT  
DRGTDDSPKDSQEDLQERHLSSEEMMRECGDVSRAQEELRKKQKMGGFHWMQRDVQDPFA  
PRGQRGVRGVRGGGRGQKDLEDVPYV

>sp|Q9BRU2|TCAL7\_HUMAN Transcription elongation factor A protein-like 7 OS=Homo sapiens  
GN=TCEAL7 PE=2 SV=2

MQKPCKENEGKPKCSVPKREEKRPYGEFERQQTEGNFRQRLQSLSEEFKEDIDYRHF KDE  
EMTREGDEMERCLEEIRGLRKKFRALHSNHRHSRDRPYPI

>sp|Q8IUC6|TCAM1\_HUMAN TIR domain-containing adapter molecule 1 OS=Homo sapiens GN=TICAM1  
PE=1 SV=1

MACTGPSLPSAFDILGAAGQDKLLYLKHKLKTTPRPGCQGQDLLHAMVLLKLGQETEARIS  
LEALKADAVARLVARQWAGVDSTEDPEEPPDVSWAVARLYHLLAEEKLCPASLRDVAYQE  
AVRTLSSRDDHRLGELQDEARNRCGWDIAGDPGSIRTLQSNLGLPPSSALPSGTRSLPR  
PIDGVSDWSQGC SLRSTGSPASLASNLEISQSPTMPFSLHRSHPGSKLCDDPQASLVP  
EPVPGGCQEPEEMSWPPSGEIASPPELPSSPPPGLPEVAPDATSTGLPDTPAAPETSTNY  
PVECTEGSAGPQSLPLPILEPVKNPCSVKDQTPLQLSVEDTTSPNTKPCPPTPTTPETSP  
PPPPPPSSTPCSAHLTPSSLPSSLESSEKQFYNFVILHARADEHIALRVREKLEALG  
VPDGATFCEDFQVPGRGELSCLQDAIDHSAFIILLTNSNFCRLSLHQVNQAMMSNLTRQ  
GSPDCVIPFLPLESSPAQLSSDTASLLSGLVRLDEHSQIFARKVANTFKPHRLQARKAMW  
RKEQDTRALREQSQHLDGERMQAAALNAAYSAYLQSYLSYQAQMEQLQVAFGSHMSFGTG  
APYGARMPFGGQVPLGAPPPFTWPGCPQPPPLHAWQAGTPPPSPQPAAFPQSLPFPQS  
PAFPTASPAPPQSPGLQPLIIHHAQMVQLGLNNHMWNQRGSQAPEDKTQEAE

>sp|O43680|TCF21\_HUMAN Transcription factor 21 OS=Homo sapiens GN=TCF21 PE=2 SV=2

MSTGSLSDVEDLQEVEMLECDGLKMDSNKEFVTSNESTEESNCENGSPQKGRGGLGKRR  
KAPTKKSPLSGVSQEGKQVQRNAANARERARMRVLSKAFSRLKTTLPWVPPDTKLSKLD  
LRLASSYIAHLRQILANDKYENGYIHPVNLTWPFMVAGKPESDLKEVVTASRLCGTTAS

>sp|A6NM43|TCPQL\_HUMAN Putative T-complex protein 1 subunit theta-like 1 OS=Homo sapiens  
GN=CCT8L1P PE=5 SV=1

MDSTVPSALELPQRLALNPRESRSPSEEEPHLLSSLAAVQTLANVIRPCYGPGRQKFL  
VTMKGETVCTGCATAILRALELEHPAAWLLREAAQTQAENSGDGTAFVVLLTEALLEQAE  
QLLKFG LPRPQLREAYATATAEVLATLPSLAIQSLGPLEDPSWALHSMNTHTLPPMNL  
TKLVAHACWAIKELDGSFKPERVGVT LHGGTLEDSCLLQGLAISGKLCGQMAAVLSGAR  
VALFACPFGPAHPNAPATACLSSPADLAQFSKGSQDQLEKQVQGLAAAGINVAVVLGEVD



EETLTLADKYGIVVIQARSMEI IYLSEVLDTPLLPRLPPQRPQKQVRVYRQELGDGLA  
VVFWEECTGTPALTVVLRGATTQGLRSAEQAVYHSIDAYFQPCQDPRLIPGAGATEMALA  
KMLSDKGSRLGPNPAFLAFARALKYLPKTLAENAGLAVSDVVAEMSGVHGQGNLLMGV  
GAEG IINVAQEGVWDTLIVKAQGFRAVAEVVLQLVTVD EIVVAKKSPTHQQIWNPD SKKT  
KKRPPPV EKKKILGMNN

>sp|Q96SF2|TCPQM\_HUMAN T-complex protein 1 subunit theta-like 2 OS=Homo sapiens GN=CCT8L2  
PE=2 SV=2

MDSTVPSALELPQRLALNPRESPRSPEEEEPHLLSSLA VQTLASVIRPCYGP HGRQKFL  
VTMKG ETVCTGCATAILRALELEHPAAWLLREAGQTAE NSGDGTAFVLLTEALLEQAE  
QLLKAGLPRPQLREAYATATAEVLATLPSLAIQSLGPLEDPSWALH SVMNTHTLSPMDHL  
TKLVAHACWAIKELDGSFKPERVGV CALPGGTLEDSCLLPGLAISGKLCGQMATVLSGAR  
VALFACPF GPAHPNAPATARLSSPADLAQFSKGS DQLEKQVQGLAAAGIN VAVVLGEVD  
EETLTLADKYGIVVIQARSWMEI IYLSEVLDTPLLPRLPPQRPQKQVRVYRQELGDGLA  
VVFWEECTGTPALTVVLRGATTQGLRSAEQAVYHGIDAYFQLCQDPRLIPGAGATEMALA  
KMLSDKGSRLGSPGPAFLAFAWALKYLPKTLAENAGLAVSDVMAEMSGVHGQGNLLMGV  
GTEG IINVAQEGVWDTLIVKAQGFRAVAEVVLQLVTVD EIVVAKKSPTHQE IWNPD SKKT  
KKHPPPVETKKILGLNN

>sp|O60522|TDRD6\_HUMAN Tudor domain-containing protein 6 OS=Homo sapiens GN=TDRD6 PE=2  
SV=2

MCSTPGMPAPGASLALRVSFVDVHPDVIPVQLWGLVGERRGEYLRLSREIQEAAATRGQW  
ALGSASASPGELCLVQVGLLWHRCRVSRQAQESRVFLLEGR TITAGAGSLAPGRREFF  
NLPSEVLGCVLAGLVPAGCGAGSGEPPQHPADAVDFLSNLQGKEVHGC VLDVLLHRLV  
LLEVPDVFQQMRELGLARRVPDSLFRSLLERYLTAATASV GSGVPVLSRVPLKQKQPGLD  
YFYPLQLGVTEAVVITQVCHPHRIHCQLRSVSQEIHRLSESMAQVYRGSTGTGDENSTS  
ATWEEREESPDKPGSPCASCGLDGHWRALLLETFRPQRCAQVLHVDYGRKELVSCSSLR  
YLLPEYFRMPVVTYPALYGLWDGGRGWSRSQVGD LKTLILGKAVNAKIEFYCSFEHVYY  
VSLYGEDGINLNRVFGVQSCCLADRVLQSQATEEEEPETSQSQSPAEEVDEEISLPALRS  
IRLKMNAFYDAQVEFVKNPSEFWIRLRKHNVTF SKLMRRMCGFYSSASKLDGVVLKPEPD  
DLCCVKWKENGYYRAIVTKLDDKSVDVFLVDRGNS ENVDWYDVRMLLPQFRQLPILAVKC  
TLADIWPLGKTWSQEAVSFFKKTVLHKELVIHILDKQDHQYVIEILDESRTGEENISKVI  
AQAGYAKYQEFETKENILVNAHSPGHVSNHFTTESNKIPAKTGEGEQKAKRENKTSVS  
KALSDTTVV TNGSTELVVQEKVKRASVYFPLMQNCLEIKPGSSSKGELEV GSTVEVRVSY  
VENPGYFWCQLTRNIQGLKTLMSDIQYYCKNTAAPHQRNTLAC LAKRTVNRQWSRALISG  
IQSVEHVNVT FVDYGDREMVSVKNIYSISEEFLKVKAQAFRC SLYNLIQPVGQNPFWVDV  
KAIQAFNEFIDNAWQKNLELKCTIFALASINEELFNIVDLLTPFQSACHFLVEKRLARPV  
KLQKPLESSVQLHSYFYSTHDMKIGSEELVYITHIDDPWTFYCQLARNANILEQLSCSIT  
QLSKVLLNLKTSPLNPGTLCLAKYTDGNWYRGIVIEKEPKK VFFVDFGNIYVVTSDDLLP  
IPSDAYDVLLLPMAVRCSLSDIPDHIPEEVVWFQETILDKSLKALVVAKDPDGTLIIE  
LYGDNIIQISASINKKLGLLSYKDRIRKKESEVLCSTTETLEEK NENMKLPCTEYLSKSVG  
YKLPNKEILEESYKPINSSYKELKLLQSLTKTNLVTQYQDSVGNKNSQVFPLTTEKKEE  
ISAETPLKTARVEATLSERKIGDSCDKDLPLKFCEFPQKTIMPGFKTTVYVSHINDLSDF  
YVQLIEDEAEISHLSERLNSVKTRPEYYVGPPLQRGDMICAVFPEDNLWYRAVIKEQQPN  
DLLSVQFIDYGNVSVVHTNKIGRLDLVNAILPGLCIHCSLQGFEVPDNKN SKMMHYFSQ  
RTSEAAIRCEFVKFQDRWEVILADEHGI IADDMISRYALSEKSQVELSTQVIKSASSKSV

NKSDIDTSVFLNWNYPEKKMIRAYATVIDGPEYFWCQFADTEKLQCLEVEVQTAGEQVAD  
RRNCIPCPYIGDPCIVRYREDGHYYRALITNICEDYLVSVRLVDFGNIEDCVDPKALWAI  
PSELLSVPMQAFPCCLSGFNISEGLCSQEGNDYFYEIITEDVLEITILEIRRDVCDIPLA  
IVDLKSKGKSINEKMEKYSKTGIKSALPYENIDSEIKQTLGSYNLDVGLKKLSNKAVQNK  
IYMEQQTDELAIEITEKDVNIIGTKPSNFRDPKTDNICEGFENPCKDKIDTEELEGELECH  
LVDKAEFDDKYLITGFNTLLPHANETKEILELNSLEVPLSPDDESKEFLELESIELQNSL  
VVDEEKGELSPVPPNPVLSQECVTKGAMELFTLQLPLSCEAEKQPELELPTAQLPLDDKM  
DPLSLGVSQKAQESMCTEDMRKSSCVESFDDQRRMSLHLHGADCDPKTQNMNICEEEFV  
EYKNRDAISALMPLFSEEESSDGSKHNGLPDHISAQLQNTYTLKAFTVGSKCVVWSSLR  
NTWSKCEIETAEEGTRVLNLSNGMEEIVNPENVWNGIPKLDKSPPEKRGLEVMEI

>sp|Q3Y452|TDRG1\_HUMAN Testis development-related protein 1 OS=Homo sapiens GN=TDRG1 PE=1 SV=1

MKRREAVCAHRHFLGTGKPPHPLGRSIPVEPCPLPAFAEVDLLSLLVPIKISSTPPSGS  
RLDPQIASSAFPGLGSLGGQDSSGSLVQRASCELESPYEL

>sp|Q86YL5|TDRP\_HUMAN Testis development-related protein OS=Homo sapiens GN=TDRP PE=1 SV=2

MWKLGRGRVLLDEPPEEEDGLRGPPPAQVQASFRGWKEVTSLFNKDDEQHL  
LERCKSPKSKGTNLRLKEELKAEKSGFWDNLVLKQNIQSKKPDEIEGWEPKLALEDIS  
ADPEDTVGGHPSWSGWEDDAKGSTKYTSLASSANSSRWSLRAAGRLVSIRRQSKGHLTDS  
PEEAE

>sp|Q2MV58|TECT1\_HUMAN Tectonic-1 OS=Homo sapiens GN=TCTN1 PE=2 SV=2

MRPRGLPPLLVLGCVASVSAQTDATPAVTTEGLNSTEAAALATFGTFPSTRPPGTPRAP  
GPSSGPRPTPVTDVAVLVCVCDLSPAQCDINCCCDPDCSSVDFSVFSACSVPVVTGDSQFC  
SQKAVIYSLNFTANPPQRVFEVDQINPSIFCIHITNYKPALSFINPEVPDENNFDTLMK  
TSDGFTLNAESYVSFTTKLDIPTAAKYEYGVPLQTSDFSFLRFPSSLTSSLCTDNNPAAFL  
VNQAVKCTRKINLEQCEEIEALSMAFYSSPEILRVPDSRKKVPITVQSIVIQLNKTLTR  
REDTDVLQPTLVNAGHFSLCVNVVLEVKYSITYTDAGEVTKADLSFVLGTVSSVVVPLQQ  
KFEIHFLQENTQPVPLSGNPGYVVGPLAAGFQPHKGSIIQTNNRYGQLTILHSTTEQD  
CLALEGVRTPVLFGYTMQSGCKLRLTGALPCQLVAQVKVKSLLWGQGFDPDYVAPFGNSQAA  
DMLDWVPIHFITQSFNRKDSCQLPGALVIEVKWTKYGSLLNPQAKIVNVTANLISSSFPE  
ANSGNERTILISTAVTFVDVSAPAEAGFRAPPAINARLPNFFFPFV

>sp|Q9H6P5|TASP1\_HUMAN Threonine aspartase 1 OS=Homo sapiens GN=TASP1 PE=1 SV=1

MTMEKGMSSGGLPSRSSQVSAGKITAKELETKQSYKEKRGGFVLVHAGAGYHSESKAKE  
YKHVCKRACQKAIEKLQAGALATDAVTAALVELEDSPFTNAGMGSNLNLLGEIECDASIM  
DGKSLNFGAVGALSGIKNPVSVANRLCEGQKGKLSAGRIPPCFLVGEAYRWAVDHGIP  
SCPPNIMTTRFSLAAFNRKRKLELAERVDTFMQLKKRRQSSEKENDSGTLDTVGAVVV  
DHEGNVAAAVSSGGLALKHPGRVGQAALYGCGWAENTGAHNPYSTAVSTSGCGEHLVRT  
ILARECSHALQAEDAHQALLETMQNKFISSPFLASEDGLGGVIVLRSCRCSAEPDSSQN  
KQTLLEFLWSHTTESMCGYMSAQDGKAKTHISRLPPGAVAGQSVAIIEGGVCRLESPVN

>sp|Q93075|TATD2\_HUMAN Putative deoxyribonuclease TATDN2 OS=Homo sapiens GN=TATDN2 PE=1 SV=2

MASERGVKHNWSSTSEGCPRKRSCLREPCDVAPSSRPAQRSASRSGGPSSPKRLKAQKE  
DDVACSRRLSWGSSRRRNSSSSFSPHFLGPGVGAASKGCLIRNTRGFLSSGGSPLRPA  
NASLEEMASLEEEACSLKVDSKSSHNSTNSEFAAEAEGQNDTIEEPNKVQKRKRDRLRD

QGSTMIIYLKAIQGILGKSMPKRKGAAATRAKPSAAEHPSHGEGPARSEGAETAEGAARS  
VTVTAAQKEKDATPEVSMEEKTVPERSSFYDRRVVIDPQEKPSSEPLGDRRTVIDKCSP  
PLEFLDDSDSHLEIQKHKREVVMEHPSSGSDWSDVEEISTVRFSQEEPVSLKPSAVPEP  
SSFTTDYVMYPPHLYSSPWCDYASYWTSSPKPSSYPSTGSSSNDAAQVGKSSRSRMSDYS  
PNSTGSGVQNTSRDMEASEEGWSQNSRSFRFRSSEEREVKEKRTFQEEMPPRPGGHASS  
SLPKSHLEPSLEEGFIDTHCHLDMLYSKLSFGTFTFRKIYSSSFPKEFQGCISDFCDP  
RTLTDCLWEELLKEDLVWGAFGCHPHFARYYSESQERNLLQALRHPKAVAFGEMGLDYSY  
KCTTPVPEQHKVFERQLQLAVSLKKPLVIHCREADEDLLEIMKKFVPPDYKIHRHCFTGS  
YPVIEPLLKYFPNMSVGFTAVLTYSSAWEAREALRQIPLERIIVETDAPYFLPRQVPKSL  
CQYAHPLGLALHTVREIARVKDQPLSLTLAALRENTSRLYSL

>sp|Q9NU19|TB22B\_HUMAN TBC1 domain family member 22B OS=Homo sapiens GN=TBC1D22B PE=1 SV=3

MAAENSKQFWKRSKLPQSIQPVYGAQHPPLDPRLTKNFIKERSKVNTVPLKNKKASSFH  
EFARNTSDAWDIGDEEEDFSSPSFQTLNSKVALATAAQVLENHSLRVKERSQSTSD  
VPANYKVIKSSSDAQLSRNSSDTCLRNPLHKQQLPLRPIIPLVARISDQNASGAPMTV  
REKTRLEKFRQLSSQNTDLDELKCSWPGVPREVRPITWRLLSGYLPANTERRKLTQR  
KREYFGFIEQYYSRNEHHQDQTYRQIHIDIPRTNPLIPLFQQPLVQEIFERILFIWAI  
RHPASGYVQGINDLVTPFFVFLSEYVEEDVENFDVTNLSQDMLRSIEADSFWCMSKLLD  
GIQDNYTFAQPGIQKKVKALEELVSRIDEQVHNHFRRYEVEYLQFAFRWMNNLLMRELPL  
RCTIRLWDTYQSEPEGFSHFHLYVCAAFLIKWRKEILDEEDFQGLLMLLQNLPTIHWGNE  
EIGLLLAAYRLKYMADAPNHRYR

>sp|Q6PEY2|TBA3E\_HUMAN Tubulin alpha-3E chain OS=Homo sapiens GN=TUBA3E PE=1 SV=2

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDSFNTHFFSETGAGK  
HVPRAVFDLEPTVVDEVRTGTYRQLFHPEQLITGKEDAAASNYARGHYTIGKEIVDLVLD  
RIRKLADLCTGLQGFLIFHSFGGGTSGGFASLLMERLSVDYSKSKLEFAIYPAPQVSTA  
VVEPYNSILTHHTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLRLIGQIVSSITA  
SLRFDGALNVDLTFEQTNLVPYPRIHFLATYAPVISAEEKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYMCCMLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPP  
TVVPGDLAKVQRAVCMLSNNTAIAEAWARLVHKFDLMAKWAFAVHVYVGEEMEEGEFSE  
AREDLAALEKDCEEVGVDSVEAEAEEGEAY

>sp|Q9BVA1|TBB2B\_HUMAN Tubulin beta-2B chain OS=Homo sapiens GN=TUBB2B PE=1 SV=1

MREIVHIQAGQCGNIGAKFWVISDEHGIDPTGSYHGSDQLQLERINVYNEATGNKYV  
PRAILVDLEPGTMSVRSRPGFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVV  
RKESESCDCLQGFLTHSLGGGTSGMGTLISKIREEYPDRIMNTFSVMPSPKVSMTVV  
EPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPITYGLNHLVSATMSGVTCL  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM  
AACDPRHGRYLTAAIFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRG  
LKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFHWTGEGMDEMEFTEAESNMNDLVS  
EYQQYQDATADEQGEFEEEEGEDEA

>sp|Q12788|TBL3\_HUMAN Transducin beta-like protein 3 OS=Homo sapiens GN=TBL3 PE=1 SV=2

MAETAAGVGRFKTNYAVERKIEPFYKGGKAQLDQTGQHLCVCGTRVNILEVASGAVLRS  
LEQEDQEDITAFDLSPDNEVLVTASRALLAQWAWQEGSVTRLWKAIHTAPVATMAFDPT  
STLLATGGCDGAVRVWDIVRHYGTHHFRGSPGVVHLVAFHPDPTRLLLFSSATDAAIRVW  
SLQDRSCLAVLTAHYSAVTSLAFSADGHTMLSSGRDKICIIWDLQSCQATRTVPVFESVE

AAVLLPEEPVSQLGVKSPGLYFLTAGDQGTLRVWEAASGQCVYTQAQPPGPGQELTHCTL  
AHTAGVVL TATADHNLLLYEARSRLKQKFAGYSEEVLDVRFLGPEDSHVVVASNSPCLK  
VFELQTSACQILHGHTDIVLALDVFRKGWLFASCAKDQSVRIWRMNKAGQVMCVAQSGH  
THSVGTCCSRLKESFLVTGSQDCTVKLWPLPKALLSKNTAPDNGPILLQAQTTQRCHDK  
DINSVAIAPNDKLLATGSQDRТАKЛWALPQCQLLGVFSGHRRGLWCVFSPMDQVLATAS  
ADGTIKLWALQDFSLKTFEGHDASVLKVAFVSRGTQLSSGSDGLVKLWTIKNNECVRT  
LDAHEDKVWGLHCSRLDDHALTGASDSRVILWKDVTEAEQAEQARQEEQVVRQQELDNL  
LHEKRYLRALGLAISLDRPHTVLTVIQAIRRDPEACEKLEATMLRLRRDQKEALLRFCVT  
WNTNSRHCHEAQAVALGVLLRREAPEELLAYEGVRAALEALLPYTERHFQRLSRTLQAAAF  
LDLFWHNMKLPVPAAAPTPWETHKGALP

>sp|060806|TBX19\_HUMAN T-box transcription factor TBX19 OS=Homo sapiens GN=TBX19 PE=1 SV=3

MAMSELGTRKPSDGTVSHLLNVVESELQAGREKGDPTKQLQIILEDAPLWQRFKEVTNE  
MIVTKNGRRMFVPLKISVTGLDPNAMYSLLDFVPTDSHRWKYVNGEWPAGKPEVSSHS  
CVYIHPDSPNFGAHWMKAPISFSKVLTNKLNGGGQIMLNSLHKYEPQVHIVRVGSAHRM  
VTNCSFPETQFIAVTAYQNEEITALKIKYNPFAKAFLDAKERNHLRDVPEAISESQHVTY  
SHLGGWIFSNPDGVCТАGNSNYQYAAPLPLPAPHTHHGCEHYSGLRGHRQAPYPSAYMHR  
NHSPSVNLISSSNNLQVFGPDSWTSLSSTPHASILSVPHNGPINPGSPYPCLWTIS  
NGAGGPSGPGPEVHASTPGAFLLGNPAVTSPPSVLSTQAPTSAGVEVLGEPSLTSIAVST  
WTAVASHPFAGWGGPGAGGHHSPSSLDG

>sp|043435|TBX1\_HUMAN T-box transcription factor TBX1 OS=Homo sapiens GN=TBX1 PE=1 SV=1

MHFSTVTRDMEAFTASSLSSLAGAGGFPGAASPGADPYGPREPPPPPPRYDPCAAAAPGA  
PGPPPPPHAYPFAPAAGAATSAAAEPEGPGASCAAAAKAPVKNAKVAGVSVQLEMKALW  
DEFNQLGTEMIVTKAGRRMFPTFQVKLFGMDPMADYMLLMDFVPVDDKRYRYAFHSSSWL  
VAGKADPATPGRVHYHPDSPAKGAQWMKQIVSFDKLKLNNLLDDNGHIILNSMHRYQPR  
FHVYVDPRKDSEKYAEENFKTFVFEETRFTAVTAYQNHRTQLKIASNPFAKGRDCDP  
EDWPRNHRPGALPLMSAFARSNPVASPTQPSGTEKGGHVLKDKEVKAETSRNTPEREVE  
LLRDAGGCVNGLGPCAECQPFNTQGLVAGRTAGDRLC

>sp|095947|TBX6\_HUMAN T-box transcription factor TBX6 OS=Homo sapiens GN=TBX6 PE=1 SV=2

MYHPRELYPSLGAGYRLGPAQPGADSSFPPALAEGYRYPELDTPKLDCFLSGMEAAPRTL  
AAHPPLPLLPPAMGTEPAPSAPEALHSLPGVSLLENRELWKEFSSVGTEMIITKAGRRM  
FPACRVSVTGLDPEARYLFLLDVIPVDGARYRWQGRREPSGKAEPRLPDRVYIHPDSPA  
TGAHWMRPVFSFHRVKLTNSTLDPHGHLILHSMHKYQPRIHLVRAAQLCSQHWGGMASFR  
FPETTFISVTAYQNPQITQLKIAANPFAKGFRENGRNCKRERDARVKRKLRGPEPAATEA  
YGSGDTPGGPCDSTLGGDIRESDEQAPAPGEATAAPAPLCGGPSAEAYLLHPAAFHGAP  
SHLPTRSPSFPEAPDSGRSAPYSAAFLELPHGSGGSGYPAAPPVFPAPHFLQGGPFPLP  
YTAPGGYLDVGSKPMY

>sp|Q8WW35|TC1D2\_HUMAN Tctex1 domain-containing protein 2 OS=Homo sapiens GN=TCTEX1D2 PE=1 SV=2

MATSIGVSFSVGDVPEAEKNAGEPENTYILRPVFQQRFRPSVVKDCIHAVLKEELANAE  
YSPEEMPQLTKHLSENIKDKLKEMGFDRYKMVVQVVIQEGVGEVFMASRCFWADTDNY  
THDVMNDSLFCVVAAFGCFYY

>sp|Q15170|TCAL1\_HUMAN Transcription elongation factor A protein-like 1 OS=Homo sapiens GN=TCAL1 PE=1 SV=2

MDKPRKENEEEPQSRPRPMRRGLRWSTLPKSSPPRSSLRSSPPRRSSFLRSSCLSSCLR  
CSSRRTPSAGLSRKDLFEGRPPEQPPCGVGKHKLEEGSFKERLARSRPQFRGDIHGRNL  
SNEEMIQAADLEEMKRVRNKLIMHWWAKRSRPYPI

>sp|Q969E4|TCAL3\_HUMAN Transcription elongation factor A protein-like 3 OS=Homo sapiens  
GN=TCEAL3 PE=1 SV=1

MEKPYNKNEGNLENEGKPEDEVPPDEGKSDEEEKPDVEGKTECEGKREDEGEPEGDEGQL  
EDEGSQEKQGRSEGEKGPQGEGKPPASQAKPESQPRAAEKRPADYVPRKAKRKTDRTD  
SPKDSQEDLQERHLSSEEMRECGDVSRAQEELRKKQKMGGFHWMQRDVQDPFAPRGQRG  
VRGVRGGGRGQRGLHDIPYL

>sp|Q6IPX3|TCAL6\_HUMAN Transcription elongation factor A protein-like 6 OS=Homo sapiens  
GN=TCEAL6 PE=2 SV=1

MEKPYNKNEGNLENEGKPEDEVPPDEGKSDEEEKPDVEGKTECEGKRKAEGEPGDEGQL  
EDKGSQEKQKSEGEKGPQGEGKPPASQAKPEGPRAAEKRPAGDYVPRKAKRKTDRTD  
SPKDSQEDLQERHLSSEEMRECGDVSRAQEELRKKQKMGGFHWMQRDVQDPFAPRGQRG  
VRGVRGGGRGQRGLHDIPYL

>sp|Q8IYN2|TCAL8\_HUMAN Transcription elongation factor A protein-like 8 OS=Homo sapiens  
GN=TCEAL8 PE=3 SV=1

MQKSCEENEGKPPQMPKAEEDRPLEDVPQEAEGNPQPSEEGVSQEAEGNPRGGPNQPGQG  
FKEDTPVRHLDPEEMIRGVDELERLREEIRRVNRKFMHWWKQRHSRSPYPVCFRP

>sp|Q86XR7|TCAM2\_HUMAN TIR domain-containing adapter molecule 2 OS=Homo sapiens GN=TICAM2  
PE=1 SV=1

MGIGKSKINSCPLSLSWGKRHSVDTSPTYHESDSKKSEDLSCNVAEHSNTTEGPTGKQE  
GAQSVEEMFEEEEEEVFLKFVILHAEDDTDEALRVQNLQDDFGIKPGIIFAEMPCGRQ  
HLQNLDDAVNGSAWTILLTENFLRDTWCNFQFYTSLMNSVNRQHKYNSVIPMRPLNPL  
PRERTPFALQTINALEEESRGFPTQVERIFQESVYKTQQTWKETRNMVQRQFIA

>sp|P23193|TCEA1\_HUMAN Transcription elongation factor A protein 1 OS=Homo sapiens  
GN=TCEA1 PE=1 SV=2

MEDEVVRFACKMDKMVQKNAAGALDLLKELKNIPMTLELLQSTRIGMSVNAIRKQSTDE  
EVTSLAKSLIKSWKKLLDGPSTEDLDEKKKEPAITSQNSPEAREESTSSGNVSNRKDET  
NARDTYVSSFPRAPSTSDSVRLKCREMLAAALRTGDDYIAIGADEEELGSQIEEAIYQEI  
RNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFARMTAEEMASDELKEMRKNL  
TKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGNRWKF  
C

>sp|Q15560|TCEA2\_HUMAN Transcription elongation factor A protein 2 OS=Homo sapiens  
GN=TCEA2 PE=1 SV=1

MMGKEEEIARIARLDKMTKSAEGAMDLLRELKAMPITLHLLQSTRVGMVSNALRKQS  
SDEEVIALAKSLIKSWKKLLDASDAKARERGRGMPPTSSRDASEAPDSRKRPELP  
STPRITTFPPVPVTCDAVRNKCRESMLTAALQTDHVAIGADCERLSAQIEECIFRDVGN  
TDMKYKNRVRSRISNLKDAKNPNLRNVLCGAITPQQIAVMTSEEMASDELKEIRKAMTK  
EAIREHQMARTGGTQTDLFTCGKCRKKNCTYTQVQTRSSDEPMTTFVVCNECGNRWKF

>sp|O75764|TCEA3\_HUMAN Transcription elongation factor A protein 3 OS=Homo sapiens  
GN=TCEA3 PE=1 SV=2

MQQEEELLRIAKKLEKMKVARKNTEGALDLLKKLHSCQMSIQLLQTTTRIGVAVNGVRKHCS  
DKEVVSIAKVLIKNWKRLDSPGPPKGEKGEEREKAKKKEGLECSDWKPEAGLSPPRKK

REDPKTRRDSVDSKSSASSSPKRPSVERSNSKSKAESPKTPSSPLTPTFASSMCLLAPC  
YLTGDSVRDKCVEMLSAALKADDDYKDYGVNCDKMASEIEDHIYQELKSTDMKYRNRVRS  
RISNLKDPNRPGLRRNVLSGAISAGLIAKMTAEEMASDELRELNAMTQEAIREHQMAKT  
GGTTTDLFQCCKKKKNCTYNQVQTRSADEPMTTFVLCNECGNRWKFC

>sp|Q9UGU0|TCF20\_HUMAN Transcription factor 20 OS=Homo sapiens GN=TCF20 PE=1 SV=3

MQSFREQSSYHGNQQSYQPQEVHGSSRLLEEFSPRQAQMFQNFGGTGGSSGSSGSGGGRR  
GAAAAAAMASETSGHQGYQGFKEAGDFYFMAGNKDPVTTGTPQPPQRRPSGPVQSYGP  
PQGSSFGNQYGSEGHVGFQAQHSGLGGVSHYQQDYTGPFSPGSAQYQQQASSQQQQQV  
QQLRQQLYQSHQPLPQATGQPASSSSHLQPMQRPSTLPSSAAGYQLRVGFQGHYQSSAS  
SSSSSFSPQRFSSQSGQSYDGSYNVNASQYEGHNVGSNAQAYGTQSNYSYQPQSMKNF  
EQAKIPQGTQQGQQQQPQQQHPHQHVMQYTNAATKLPLQSQVGQYNQPEVPVRSPMQF  
HQNFSPISNPSPAASVVQSPSCSSTPSPLMQTGENLQCGQGSVPMGSRNRILQLMPQLSP  
TPSMMPSPNSHAAGFKGFGLEGVPEKRLTDPGLSSLSALSTQVANLPNTVQHMLLSDALT  
PQKKTSKRPSSSKKADSCTNSEGSSQPEEQLKSPMAESLDGGCSSSEDQGERVRQLSGQ  
STSSDTTYKGGASEKAGSSPAQGAQNEPPRLNASPAAREEATSPGAKDMPLSSDGNPKVN  
EKTGVIVSREAMTGRVEKPGGQDKGSQEDDPAATQRPPSNGGAKETSHASLPQPEPPGG  
GGSGKNKNGDNNSNHNGEGNGQSGHSAAGPGFTSRTEPSKSPGSLRYSYKDSFGSAVPRN  
VSGFPQYPTGQEGDFTGHGERKGRNEKFPSSLQEVLQGYHHHPDRRYSRSTQEHQGMAG  
SLEGTTRPNVLVSQTNELASRGLLNKSIGSLLNPHWGPWERKSSSTAPEMKQINLTDYP  
IPRKFIEIPQSSAHEPGGSLERRSVICDISPLRQIVRDPGAHSLGHMSADTRIGRNDRL  
NPTLSQSVILPGGLVSMETKLKSGSQIKEEDFEQSKSQASFNNKSGDHCHPPSIKHES  
YRGNASPGAATHDSLSDYGPQDSRPTPMRRVPGRVGGREGMRGRSPSYHDFAEKLMSP  
GRSRGPGGDPHHMNPMTFSERANRSSLHTPFSPNSETLASAYHANTRAHAYGDPNAGLN  
SQLHYKRQMYQQQPEEYKDWSSGSAQGVIAAAQHRQEGPRKSPRQQQFLDRVRSPLKNDK  
DGMMPGPPVGTYHDSAQEAQRCLMSSDGLPNKGMEKHGSKLQESCWDLRQTSPAKS  
SGPPGMSSQKRYGPPHETDGHGLAEATQSSKPGSVMLRPLGQEDHSSQNPLIMRRRVRSF  
ISPIPSKRQSQDVKNSSSTEDKGRLLHSSKEGADKAFNSYAHLSHSQDIKSIKRDSSKDL  
PSPDSRNCPAVTLTSPAKTKILPPRKGRGLKLEAIVQKITSPNIRRSASSNSAEAGGDTV  
TLDDILSLKSGPPEGGSVAVQDADIEKRKGEVASDLVSPANQELHVEKPLPRSSEEWGRS  
VDDKVKTEETHAETVTAGKEPPGAMTSTTSQKPGSNQGRPDGSLGGTAPLIFPDSKNVPPV  
GILAPEANPKAEEKENDTVTISPKQEGFPKGYFPGSKKKGRPIGSVNKQKKQQQPPPPP  
PQQPIPEGSADGEPKPKQRQRERRKPGAQPRKRKTKQAVPIVEPQEPEIKLKYATQP  
LDKTDANKNSFYPIYHVVNKCELGAVCTIINAEEEEQTKLVRGRKGQRSLTPPPSSTESK  
ALPASSFMLQGPVVTESVGMHLVCCLCGKWASYRNMGDLFGPFYPQDYAATLPKNPPPK  
RATMQSKVKVRHKSASNGSKTDTEEEEEEQQQQKEQRSLAAHPRFKRRHRSEDGCGGPR  
SLSRGLPCKKAATEGSSEKTVLDSKPSVPTTSEGGPELELQIPELPLDSNEFWVHEGCIL  
WANGIYLVCGRLYGLQEALEIAREMKCSHCQEAGATLGCYNKGCSFRYHYPCAIDADCLL  
HEENFSVRCPKHKPLPLCPPLQNKTAAGSLSTEQSERG

>sp|Q7RTU1|TCF23\_HUMAN Transcription factor 23 OS=Homo sapiens GN=TCF23 PE=2 SV=1

MSQRKARGPPAMPVGVHSQTQAKARLLPGADRKRSLSRTRQDPWEERSWSNQRWSRATP  
GPRGTRAGGLALGRSEASPENARERSRVRTLQAFALQAALPAVPPDTKLSKLDVLVL  
AASYIAHLTRTLGHELPGPAWPPFLRGLRYLHPLKKWPMRSRLYAGGLGYSDLDSTTAST  
PSQRTRDAEVGSQVPGEADALLSTTPLSPALGDK

>sp|Q9UL49|TCFL5\_HUMAN Transcription factor-like 5 protein OS=Homo sapiens GN=TCFL5 PE=2 SV=2

MSGPGPREPPPEAGAAGGEAAVEGAGGGDAALGEPGLSFTTTDLSLVEMTEVEYTQLQHI  
LCSHMEAAADGELETRLNSALLAAAGPGAGAGGFAAGGQGAAPVYPVLCPSALAADAPC  
LGHIDFQELRMMLLSEAGAAEKTSGGGDGARARADGAAKEGAGAAAAAGPDGAPEARAK  
PAVRVRLEDRFNSIPAEPPPAPRGPEPEPGGALNNLVTLIRHPSELMNVPLQQQNKCTA  
LVKNKTAATTTALQFTYPLFTTNACSTSGNSNLSQTQSSSNSCSVLEAAKHQDIGLPRAF  
SFCYQQEIESTKQTLGSRNKVLPEQVWIKVGEAALCKQALKRNRSMRQLDTNVERRALG  
EIQNVGEGATATQGAWQSSESSQANLGEQAQSGPQGGRSQRRERHNRMERDRRRRIRICC  
DELNLLVPFCNAETDKATTLQWTTAFLKYIQUERHGDSLKKEFESVFCGKTGRRLKLTRPD  
SLVTCPAQGSLQSSPSMEIK

>sp|Q8TDR4|TCP1L\_HUMAN T-complex protein 10A homolog 2 OS=Homo sapiens GN=TCP10L PE=1 SV=1

MLAGQLEARDPKEGTHPEDPCPGAGAVMEKTAVAAEVLTEDCNTGEMPPPLQQQIIRLHQE  
LGRQKSLWADVHGKLRSHIDALREQNMELREKLRLQLQRWKARKKSAASPHAGQESHTL  
ALEPAFGKISPLSADEETIPKYAGHKNSATLLGQRSSSNNSAPPKMSLKIERISSWKT  
PPQENRDKNLSRRRQDRRATPTGRPTPCAERRGGV

>sp|Q587J7|TDR12\_HUMAN Putative ATP-dependent RNA helicase TDRD12 OS=Homo sapiens GN=TDRD12 PE=2 SV=2

MLQLLVLKIEDPGCFVWIIKGCSPFLDHDVDYQKLNSAMNDFYNSTCQDIEIKPLTLEEG  
QVCVVYCEELKCWCRAIVKSITSSADQYLAECFLVDFAKNIPVSKNIRVVESFMQLPY  
RAKKFSLYCTKPVTLHIDFCRDSTDIVPAKKWDNAAIQYFQNLKATTQVEARLCAVEED  
TFEVLYVVTIKDEKVCVNDLVAKNYACYMSPTKNKNLDYLEKPRLNISAPSFNKLNPA  
LTLWPMFLQGKDVQGMEDSHGVNFPASQLQHTWCKGIVGDLRPTATAQDKAVKCNMDSLR  
DSPKDKSEKKHHCISLKDNTKRVESSVYWPAKRGITIIYADPDVPEASALSQKSNEKPLRL  
TEKKEYDEKNSCVKLLQFLNPDLRADGISDLQQLQKLKGLQPPVVVLRNKIKPCLTIDS  
SPLSADLKKALQRNKFPGSHTESYSWPPIARGCDVVVISHCESNPLLYLLPVLTVLQTG  
ACYKSLPSRNGPLAIVCPGWKKAQFIFELLGEYSMSSRPLHPVLLTIGLHKEEAKNTKL  
PRGCDVIVTTPYSLLRLACQSLLFLRLCHLILDEVEVLFLEANEQMFALDNFKKNIEV  
EERESAPHQIVAVGVHWNKHIEHLIKEFMNDPYIVITAMEEAALYGNVQQVVHLCLECEK  
TSSLLQALDFIPSQAQKTLIFTCSVAETEIVCKVVESSSIFCLKMHKEMIFNLQNVLEQW  
KKKLSSGSQIILALTDDCVPLLAITDATCVIHFSFPASPKVFGGRLYCMSDHFHAEQSGP  
AEQGDKKAKSVLLLTEKDASHAVGLRYLERADAKVPAELYEFTAGVLEAKEDKKAGRPL  
CPYLKAFGFCCKRIPCDRHRINPETDLPRKLSSQALPSFGYIKIIPFYILNATNYFGRI  
VDKHMPLYATLNAEMNEYFKDSNKTVEKVEKFGLYGLAEKTLFHRVQVLEVNQKEDAWA  
LDDILVEFIDEGRGLVTRDQLLHLEPHFHTLPPQAVEFIVCRVKPADNEIEWNPKVTRY  
IHHKIVGKLHDAKVILALGNTVWIDPMVHITNLSSLKTSVIDYNVRAEILSMGMGIDNPE  
HIEQLKKLREDAKIPACEESLSQTPPRVTGTSPAQDQDHPSEEQGGQGTTPAEDAACLQS  
PQPEDTGAEGGAESKTSSSENQKPGGYLVFKRWLSSNR

>sp|Q9NYB0|TE2IP\_HUMAN Telomeric repeat-binding factor 2-interacting protein 1 OS=Homo sapiens GN=TERF2IP PE=1 SV=1

MAEAMD LGKDPNGPHTSSTLFVRDDGSSMSFYVRPSPAKRRLSTLILHGGGTVCRVQEPG  
AVLLAQPGEALAEASGDFISTQYILDCVERNERLELEAYRLGPASAADTGSEAKPGALAE  
GAAEPEPQRHAGRIAFDADDVAILTYVKENARSPSSVTGNALWKAMEKSSLTQHSWQSL

KDRYLKHLRGQEHKYLLGDAPVSPSSQKLKRKAEDPEAADSGEPQNKRTPLPEEEYVK  
EEIQENEEAVKKMLVEATREFEEVVVDESPDFEIHITMCDDDPPTPEEDSETQPDEEEE  
EEEEKVSQPEVGAAIKIIRQLMEKFNLDLSTVTQAFLKNSGELEATSAFLASGQRADGYP  
IWSRQDDIDLQKDDDETREALVKKFGAQNVARRIEFRKK

>sp|Q5HYJ1|TECRL\_HUMAN Trans-2,3-enoyl-CoA reductase-like OS=Homo sapiens GN=TECRL PE=2  
SV=1

MFKRHKSLASERKRALLSQRATRFILKDDMRNFHFLSKLVLSAGPLRPTPAVKHSKTTHF  
EIEIFDAQTRKQICILDKVTQSSTIHDVKQKFHKACPKWYPSRVGLQLECGGPFLKDYIT  
IQSIAASSIVTLYATDLGQQVSWTTVFLAEYTGPLLIYLLFYLRIPCIYDGKESARRLRH  
PVVHLACFCHCIHYIRYLETFLVHKVSAGHTPLKNLIMSCAFYWGFTSWIAYYINHPY  
TPPSFGNRQITVSAINFLICEAGNHFINVMLSHPNHTGNNACFPSPNYPFTWMFFLVSC  
PNYTYEIGSWISFTVMTQTLPVGIFTLLMSIQMSLWAQKKHKIYLRKFNSYIHRKSAMIP  
FIL

>sp|Q9BXF9|TEKT3\_HUMAN Tektin-3 OS=Homo sapiens GN=TEKT3 PE=1 SV=1

MERVGCTLTTTYAHPRPTPTNFLPAISTMASSYRDRFPHSNLTHSLPWRPSTYYKVAS  
NSPSVAPYCTRSQRVSENTMLPFVSNRTTFFTRYTPDDWYRSNLTNYQESNTSRHNSEKL  
RVDTSRLIQDKYQQTRKTQADTTQNLGERVNDIGFWKSEIHELDEMIGETNALTDVKKR  
LERALMETEAPLQVARECLFHREKRMGIDLHDEVEAQLLTEVDTILCCQERMKLHLDKA  
IAQLAANRASQHELEKDLSDKQTAYRIDDKCHHLRNTSDGVGYFRGVERVDATVSPESW  
AKFTDDNILRSQSERAASAKLRDDIENLLVVTANEMWNQFNKNLSFTNRIAETADAKNK  
IQTHLAKTLQEIFQTEMTIESIKKAIKDKTAFLKVAQTRLDERTRRPNIELCRDMAQLRL  
VNEVHEVDDTIQTLQQLRDAEDTLQSLVHIKATLEYDLAVKANSLYIDQEKCMSMRKSY  
PNTLRLVGFC

>sp|Q8NHR7|TERB2\_HUMAN Telomere repeats-binding bouquet formation protein 2 OS=Homo  
sapiens GN=TERB2 PE=2 SV=1

MFQGGRGWFCGSVSQDLRQFWAEGGTISDPRAADFLFSCDASHPDTLRIYQSLDYIEDN  
ATVFHAYYLSAVANAKIKNSVALGHFILPPACLQKEIRRKIGSFIWEQDQHFLIEKHDEV  
TPNEIKTLRENSELATEHKELSKSPEKHFIRTPVVEKQMYFPLQNYPVNMVMTGYISID  
AMKKFLGELHDFIPGTSGYLAYHVQNEINMSAIKNKLKRK

>sp|P54274|TERF1\_HUMAN Telomeric repeat-binding factor 1 OS=Homo sapiens GN=TERF1 PE=1  
SV=3

MAEDVSSAAPSPRGCADGRDADPTEEQMAETERNDEEQFECQELLECCVQVGAPEEEEE  
EEDAGLVAAEAVAAGWMLDFLCLSLCRAFRDGRSEDFRTRNSAEAI IHGLSSLTACQL  
RTIYICQFLTRIAAGKTLDQAQFENDERITPLESALMIWGSIEKEHDKLHEEIQNLIKIQ  
IAVCMENGNFKEAEVFERIFGDPNSHMPFKSKLLMII SQKDTFHSFFQHFSYNHMEKI  
KSYVNYVLSEKSSTFLMKAANKVVESKRTRTITSQDKPSGNDVEMETEANLDTRKSVSDK  
QSAVTESSEGTVSLLRSHKNLFLSKLQHGTQQQDLNKKERRVGTQSTKKKKESRRATES  
RIPVSKSQPVTPEKHRARKRQAWLWEEDKNLRSGVRKYGEGNWSKILLHYKFNNRTSVML  
KDRWRTMKKLKLISDSED

>sp|Q92664|TF3A\_HUMAN Transcription factor IIIA OS=Homo sapiens GN=TF3A PE=1 SV=3

MDPPAVVAESVSLTIADAFIAAGESSAPTPPRPALPRRFICSFPDCSANYSKAWKLDAH  
LCKHTGERPFVCDYEGCGKAFIRDYHLRHLTHTGEKPFVCAANGCDQKFNTKSNLKKH  
FERKHENQQKQYICSFEDCKKTFKKHQQLIHQCQHTNEPLFKCTQEGCGKHFAFPSKLK  
RHAKAHEGYVCQKGCSSFVAKTWTTELLKHVRETHKEEILCEVCRKTFKRKDYLKQHMKTHA



PERDVCRCPREGCGRTYTTVFNLQSHILSFHEESRPFVCEHAGCGKTFAMKQSLTRHAVV  
HDPDKKKMKLVKKSREKRSASHLSGYIPPKRKQGGLSLCQNGESPNCVEDKMLSTVA  
VLTG

>sp|Q92994|TF3B\_HUMAN Transcription factor IIIB 90 kDa subunit OS=Homo sapiens GN=BRF1  
PE=1 SV=1

MTGRVCRGCGGTDIELDAARGDAVCTACGSVLEDNIIVSEVQFVESSGGGSSAVGQFVSL  
DGAGKTPTLGGGFHVNLGKESRAQTLQNGRRHIHHLGNQLQLNQHCLDTAFNFFKMAVSR  
HLTRGRKMAHVIAACLYLVCRTGTPHMLLDLSDLLQVNVYVLGKTFLLARELCINAPA  
IDPCLYIPRFAHLLFEGEKNHEVSMTALRLQLQRMKRDWMHTGRRPSGLCGAALLVAARMH  
DFRRTVKEVISVVKVCESTLRKRLTEFEDTPTSQTLIDEFMKIDLEEECDPPSYTAGQRK  
LRMKQLEQVLSKKLEEVEGEISSYQDAIEIELENSRPKAKGGLASLAKDGSTEDTASSLC  
GEEDTEDEELEAAASHLNKDLYRELLGGAPGSSEAAGSPEWGGRPPALGSLDPLPTAAS  
LGISDSIRECISSQSSDPKASGDGELDLSGIDDLIDRYILNESEARVKAELWMRENAE  
YLREQREKEARIAKEKELGIYKEHKPKKSKRREPIQASTAREAIEKMLEQKKISSKINY  
SVLRGLSSAGGSPHREDAQPEHSASARKLSRRRTPASRSGADPVTSGKRLRPLVSTQP  
AKKVATGEALLPSSPTLGAEPARPQAVLVESGPVSYHADEEADDEEDGEPCVSALQ  
MMGSNDYGCDDGDDGY

>sp|Q9Y5Q9|TF3C3\_HUMAN General transcription factor 3C polypeptide 3 OS=Homo sapiens  
GN=GTTF3C3 PE=1 SV=1

MSGFSPELIDYLEGKISFEEFERRREERKTREKKSLQEKGLSAENPDSEVPSSSGIN  
STKSQDKDVNEGETSDGVRKSVHKVFASMLGENEDDEEEEEEEEEEEEEETPEQPTAGD  
VFLVLEMLNRETKKMMKEKRPRSKLPRLRGLMGANIRFARGEREEAILMCMEIRQAP  
LAYEPFSTLAMIYEDQGMEKSLQFELIAAHLNPSDTEEWVRLAEMSLEQDNKQAIFCY  
TKALKYEPTNVRYLWERSSLYEQMGDHKMAMDGYRRILNLLSPSDGERFMQLARMAKSY  
YEANDVTSAINIIDFAFSKHQGLVSMEDVNIAELYISNKQYDKALEIITDFSGIVLEKK  
TSEEGTSEENKAPENVCTCTIPDGVPIDITVKLMVCLVHLNILEPLNPLLTTLVEQNPEDM  
GDLYLDVAEAFLDVGEYNSALPLLSALVCSERYNLAVVWLRHAECKALGYMERAESYG  
KVVDLAPLHLDARISLSTLQQLGQPEKALEALEPMYDPDTLAQDANAAQELKLLHRS  
TLLFSQGKMYGYVDTLLTMLAMLLKVAMNRAQVCLISSKSGERHLYLIKVSRDKISDSN  
DQESANCAKAIFAULTSVLTKDDWWNLLKAIYSLCDLSRFQEAELLVDSSLEYYSFYD  
DRQKRKELEYFGLSAAILDKNFRKAYNYIRIMVMENVNKPQLWNIFNQVTMHSQDVRHHR  
FCLRLMLKNPENHALCVLNHNAFVSGSFKHALGQYVQAFRTHPDEPLYSFCIGLTFIHM  
ASQKYVLRHALIVQGSFSLNRYLSLRGPCQESFYNLGRGLHQLGLIHLAIHYQKALEL  
PPLVVEGIELDQLDLRRDIAYNLSLIYQSSGNTGMAQTLLTYCSI

>sp|Q9HCS4|TF7L1\_HUMAN Transcription factor 7-like 1 OS=Homo sapiens GN=TCF7L1 PE=2 SV=1

MPQLGGGGGGGGGGGGSSAGAAGGGDDLGADELIPFQDEGGEEQEPSSDSASAQR  
DLDEVKSSLVNESENQSSSDSEAERRPQPVRDTFQKPRDYFAEVRRPQDSAFFKGPPYP  
GYPFLMIPDLSSPYLSNGPLSPGGARTYLQMKWPLLDVPSSATVKDTRSPSPAHLSENKVP  
VVQHPHHMHLPTPLITYSNDHFSFGSPPTHLSPEIDPKTGIPRPPHPSELSPYYPLSPGA  
VGQIPHPLGWLVPQQGQPMYSLPPGGFRHPYPALAMNASMSLVSSRFSPHMVAPAHPL  
PTSGIPHPAIVSPIVKQEPAPPSLSPAVSVKSPVTVKKEEEKKPHVKKPLNAFMLYMKEM  
RAKVVAECTLKESAAINQILGRKWHNLSREEQAKYYELARKERQLHSQLYPTWSARDNYG  
KKKKRKREKQLSQTQSQQQVQEAEGALASKSKKPCVQYLPPEKPCDSPASSHGSMLDSPA  
TPSAALASPAAPAATHSEQAQPLSLTTKPETRAQLALHSAFLSAKAAAASSSGMQGSQPP

LLSRPLPLGSMPSTALLASPPSPATLHAHQALPVLQAQPLSLVTKSAH

>sp|Q01664|TFAP4\_HUMAN Transcription factor AP-4 OS=Homo sapiens GN=TFAP4 PE=1 SV=2

MEYFMVPTQKVPSLQHFRKTEKEVIGGLCSLANIPLTPETQRDQERRIRREIANSNERRR  
MQSINAGFQSLKTLIPHDTGEEKLSKAAILQQTAEYIFSLEQEKTRLLQQNTQLKRFIQEL  
SGSSPKRRRAEDKDEGIGSPDIWEDEKAEDLRREMIELRQQLDKERSVRMMLEEQVRSLE  
AHMYPEKLKVIAQQVQLQQQEQVRLHQEKLEREQQQLRTQLLPPAPTHHTVIVPAP  
PPPPSHHINVVTMGPSVINSVTSRQNLDTIVQAIQHIEGTQEKQELEEEQRRIVIVKP  
VRSCPEAPTSDTASDSEASDSDAMDQSREEPSGDGELP

>sp|P04155|TFF1\_HUMAN Trefoil factor 1 OS=Homo sapiens GN=TFF1 PE=1 SV=1

MATMENKVICALVLVSMLALGTLAEAQTTCTVAPRERQNCGFPGVTPSQCANKGCCFDD  
TVRGVPWCIFYPNTIDVPPEEECEF

>sp|Q07654|TFF3\_HUMAN Trefoil factor 3 OS=Homo sapiens GN=TFF3 PE=1 SV=1

MAARALCMLGLVLALLSSSSAEEYVGLSANQCAVPAKDRVDCGYPHVTPKECNNRGCCFD  
SRIPGVPWCFKPLQEAECTF

>sp|Q9UBB9|TFP11\_HUMAN Tuftelin-interacting protein 11 OS=Homo sapiens GN=TFIP11 PE=1  
SV=1

MSLSHLYRDGEGRIDDDDERENFEITDWDLQNEFNPNRQRHWQTKEEATYGVWAERDSD  
DERPSFGGKRARDYSAPVNFISAGLKKGAEEAELEDSDEEKPVKQDDFPKDFGPRKLK  
TGGNFKPSQKGFAGGTSFMDFGSWERHTKGIGQKLLQKMGYVPGRGLGKNAQGIINPIE  
AKQRKGKGAVGAYGSERTTQSMQDFPVVDSEEEAEFEFQKELSQRKDPSPGSKKKPKYSY  
KTVEELKAKGRISKLTAPQKELSQVKVIDMTGREQKVYYSYSQISHKHNPDDGLPLQS  
QQLPQSGKEAKAPGFALPELEHNQLLLIDLTEQEIIQNDRQLQYERDMVVNLFHELEKMT  
EVL DHEERVISNLSKVLEMVEECERRMQPDCSNPLTLDECARIFETLQDKYEEYRMSDR  
VDLAVAIVYPLMKEYFKWDPLKCTYGTETIISKWKSLENDQLLSHGGQDLSADAFHRL  
IWEVWMPFVRNIVTQWQPRNCDPMVDFLDSWVHIIPVWILDNILDQLIFPKLQKEVENWN  
PLTDTVPIHSWIHPWLPLMARLEPLYSPIRSKLSSALQKWHPSDSSAKLILQPWKDVFT  
PGSWEAFMVKNIVPKLGMCLGELVINPHQQHMDAFYWVIDWEGMISVSSLVGLLEKHFFP  
KWLQVLCSWLSNSPNYEEITKWYLGWKSMSFSDQVLAHPSVKDKFNEALDIMNRAVSSNVG  
AYMPQGARENIAYLTHTERRKDFQYEAMQERREAENMAQRGIGVAASSVPMNFKDLIETK  
AEEHNIVFMPVIGKRHEGKQLYTFGRIVIIYIDRGVVFVQGEKTWVPTSLQSLIDMAK

>sp|P01135|TGFA\_HUMAN Protransforming growth factor alpha OS=Homo sapiens GN=TGFA PE=1  
SV=1

MVPSAGQLALFALGIVLAACQALENSTSPLSADPPVAAAVVSHFNDCPDSTQFCFHGTC  
RFLVQEDKPACVCHSGYVGARCEHADLLAVVAASQKKQAITALVVVSIVALAVLIITCVL  
IHCCQVRKHCEWCRALICRHEKPSALLKGRACCHSETVV

>sp|P61812|TGFB2\_HUMAN Transforming growth factor beta-2 OS=Homo sapiens GN=TGFB2 PE=1  
SV=1

MHYCVLSAFLILHLVTVALSLSTCSTLDMQFMKRKRIEAIRGQILSKLKTSPPEDYPEP  
EEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPFFPSENAIPP  
TFYRPFYFRIVRFDVSAEKNASNLVKAEFRVFRQLQNPKEARVPEQRIELYQILKSKDLTSP  
TQRYIDSKVVKTRAEGEWLSFDVTDVHVEWLHHKDRNLGFKISLHPCCTFVPSNNYIIP  
NKSEELERFAGIDGTSTYTSQDQKTIKSTRKKNNGKTPHLLMLLPSYRLESQQTNRRK  
KRALDAAYCFRNVQDNCLRLPLYIDFKRDLGWKWIHEPKGYANFCAGACPYLWSSDTQH  
SRVLSLYNTINPEASAPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSKCKS

>sp|095932|TGM3L\_HUMAN Protein-glutamine gamma-glutamyltransferase 6 OS=Homo sapiens  
GN=TGM6 PE=1 SV=3

MAGIRVTKVDWQSRNGAAHHTQEYPCPELVVRRGQSFSLTLELSRALDCEEILIFTMET  
GPRASEALHTKAVFQTSELERGEGWTAAREAQMEKTLTVSLASPPSAVIGRYLLSIRLSS  
HRKHSNRRLGEFVLLFNPWCAEDDVFLASEEERQEYVLSDSGIIFRGVEKH IRAQGWNYG  
QFEEDILNICLSILDRSPGHQNNPATDVSCRHNPIYVTRVISAMVNSNDRGVVQGGWQG  
KYGGGTSPLHWRGSAAILQKWLKGRYPVKYGGCWVFAGVLCTVLRCLGIATRVSNFNS  
AHDTDQNLSDVKYVDSFGRTLEDLTEDSMWNFHVWNESWFARQDLGPSYNGWQVLDATPQ  
EESEGVFRCGPASVTAIREGDVHLAHDGPFVFAEVNADYITWLWHEDESRRVYSNTKKI  
GRCISTKAVGSDSRVDITDLYKYPEGSRKERQVYSKAVNRLFGEASGRRIWIRRAGGRC  
LWRDDLLEPATKPSIAGKFVLEPPMLGHDLRLALCLANLTSRAQVRVNLSGATILYTR  
KPVAEILHESHAVRLGPQEEKRIPITISYSKYKEDLTEDKKILLAAMCLVTGKELLVEK  
DITLEDFITIKVLGPAMVGVAVTVEVTVVNPLIERVKDCALMVEGSGLLQEQLSIDVPTL  
EPQERASVQFDITPSKSGPRQLQVDLVSPHFPDIKGFVIVHVATAK

>sp|P49221|TGM4\_HUMAN Protein-glutamine gamma-glutamyltransferase 4 OS=Homo sapiens  
GN=TGM4 PE=1 SV=2

MMDASKELQVLHIDFLNQDNAVSHHTWEFQTSSPVFRRGQVFHLRLVLNQPLQSYHQLKL  
EFSTGPNPSIAKHTLVVLDPRTPSDHYNWQATLQNESGKEVTAVTSSPNAILGKYQLNV  
KTGNHILKSEENILYLLFNPWCKEDMVFMPDEDERKEYILNDTGCHYVGAARS IKCKPWN  
FGQFEKNVLDCCISLLESSLKPTDRRDPVLVCRAMCAMMSFEKGQGV LIGNWTGDYEGG  
TAPYKWTGSAPILQQYYNTKQAVCFGQCWVFAGILTTVLRALGIPARSVTGFD SAHETER  
NLTVDTYVNENGEKITSMTHSVWNFHVWTD AWMKRPDL PKGYDGWQAVDATPQERSQGV  
FCCGPSPLTAIRKGDIFIVYDTRFVFSEVNGDRLIWLKVMNGQEELHVISMETTSIGKN  
ISTKAVGQDRRRDITYEYKYPEGSSEERQVMDHAFLLSSEREHRRPVKENFLHMSVQSD  
DVLLGNSVNFTVILKRKTAALQNVNILGSFELQLYTGKKMAKLCDLNKTSQIQGQVSEVT  
LTLDSKTYINSLAILDDEPVIRGFIIAEIVESKEIMASEVFTSFQYPEFSIELPNTGRIG  
QLLVCNCIFKNTLAIP L TDVKFSLES LGISSLQTS DHGTVQPGETIQS QIKCTPIKTGPK  
KFIVKLSSKQVKEINAQKIVLITK

>sp|043548|TGM5\_HUMAN Protein-glutamine gamma-glutamyltransferase 5 OS=Homo sapiens  
GN=TGM5 PE=1 SV=4

MAQGLEVALDQLSSRNVRHHTEEITVDHLLVRRGQAFNLTLTYFRNRSFQPLDNIIFV  
VETGPLDLALGTRAVFSLARHSPSPWIAWLETNGATSTEVSLCAPPTAAVGRYLLKIH  
IDSFQGSVTAYQLGEFILLFNPWCPEDAVYLDSEPQRQEYVMNDYGFYIQGSKNWIRPCP  
WNYGQFEDKIIDICLKLLDKSLHFQTD PATDCALRGSPVYVS RVVCAMINSNDNGVLNG  
NWSENYTDGANPAEW TGSAVILKQWNATGCQPVR YGQCWVFAAVMCTVMRCLGIPTRVIT  
NFD SGHDTDGNLI IDEYYDNTGRILGNKKKDTIWNFHVWNECW MARKDLPPAYGGWQVLD  
ATPQEMSNGVYCCGPASVRAIKEGEVDLNYDTPFVFSMVNADCMSWL VQGGKEQKLHQDT  
SSVGNFISTKSIQSDERDDITENYKYEESLQERQVFLKALQKLKARSFHGSQRGAELQP  
SRPTSLSQDSPRSLHTPSLRPSDVVQVSLKFKLLDPPNMGQD ICFVLLALNMSSQFKDLK  
VNLSAQSLLDHGSPLSPFWQDTAFITLSPKEAKTYPCKISYSQYSQYLSTD KLIRISALG  
EEKSSPEKILVNKIITLSYPSITINVLGAAVVNQPLSIQVIFSNPLSEQVEDCVLTVEGS  
GLFKKQKQVFLGLVKPQH QASIILETVPFKSGQRQIQANMRSNKF KDIKGYRNVYVDFAL

>sp|Q9NVV9|THAP1\_HUMAN THAP domain-containing protein 1 OS=Homo sapiens GN=THAP1 PE=1  
SV=1

MEEVPGDALCEHFANILTQNRQCNCFHPEEAHGARYQELRSPSGAEVPYCDLPRCPPAP  
EDPLSASTSGCQSVVDPGLRPGPKRGPSPSAGLPEEGPTAAPRSRRELEAVPYLEGLTT  
SLCGSCNEDPGSDPTSSPDSATPDDTSSSSVWDWTDVERQEEEAAPSWDELAVMIPRRPRE  
GPRADSSQRAPSLLTRSPVGGDAAGQKKEDTGGGGRSAGQHWARLRGESGLSLERHRSTL  
TQASSMTPHSGPRSTTSQASPAQRDTAAASTREIPRASSPHRITQRDTSRASSTQQEIS  
RASSTQQETSRASSTQEDTPRASSTQEDTPRASSTQWNTPRASSPSRSTQLDNPRTSSTQ  
QDNPQTSFPTCTPQRENPRTPCVQQDDPRASSPNRTTQRENSRTSCAQRDNPKASRTSSP  
NRATRDNPRTSCAQRDNPRASSPSRATRDNPRTTSCAQRDNPRASRTSSPNRATRDNPRTS  
CAQRDNPRASSPSRATRDNPRTTSCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASS  
PNRAARDNPRTTSCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASSPNRATRDNPRTT  
SCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASSPNRTTQQDSPRTSCARRDDPRA  
SSPNRTIQQENPRTSCALRDNPASSPSRTIQQENPRTSCAQRDDPRASSPNRTTQQENP  
RTSCARRDNPRASSRNRTIQRDNPRTSCAQRDNPRASSPNRTIQQENLRTSCTRQDNPRT  
SSPNRATRDNPRTSCAQRDNLRASSPIRATQQDNPRTCIQQNI PRSSSTQQDNPKTSCTK  
RDNL RPTCTQRDRTSFSFQRDNPGTSSSQCTQKENLRPSSPHRSTQWNNPRNSSPHRT  
NDIPWASFPLRPTQSDGPRTSSPSRSKQSEVPWASIALRPTQGDRPQTSSPSRPAQHDP  
PQSSFPGPTQYNLPSRATSSSHNPGHQSTSRSTSSPVYPAAYGAPLTSPEPSQPPCAVCIGH  
RDAPRASSPPRYLQHDPFPFFPEPRAPSEPPHHEPPYIPPAVCIGHRDAPRASSPPRHT  
QFDFPFPFLPDTSDAEHQCSQPQHEPLQLPAPVCIGYRDAPRASSPPRQAPEPSLLFQDLP  
RASTESLVPSMDSLHECPHIPTVPCIGHRDAPSFSSPPRQAPEPSLFFQDPPGTSMESLA  
PSTDLSLHGSPVLIPQVCIGHRDAPRASSPPRHPPSDLAFLAPSPSPGSSGSGRGSAPPGE  
TRHNLEREYTVLADLPPPRRLAQRQPGPQAQCSSGGRTHSPGRAEVERLFGQERRKSEA  
AGAFQAQDEGRSQQPSQGQSQQLRRQSSPAPSRQVTMLPAKQAELTRRSQAEPHPWSPE  
KRPEGDRQLQGSPLPRTSARTPERELRTQRPLESGQAGPRQLGVWQSQEPPPGSQGPH  
RHLERSWSSQEGGLPGGWWGCGEPSLGAAKAPEGAWGGSREYKESWGQPEAWEEKPTH  
ELPRELGKRSPLTSPPENWGGPAESSQSWHSGTPTAVGWGAEGACPYPRGSERRPELDWR  
DLLGLLRAPGEGVWARVPSLDWEGLLELLQARLPRKDPAGHRDDLARALGPGLPPTND  
VPEQESHSPQEGWAEATPVNGHSPALQSQSPVQLPSPACTSTQWPKIKVTRGPATATLAG  
LEQTGPLGSRSTAKGPSLPELQFQPEEPEESEPSRQDPLTDQKQADSADKRPAEGKAGS  
PLKGRLVTSWRMPGDRPTLFPNPFLLSLGLVRWRRPDLLNFKKGWMSILDEGEPPSPSLT  
TTSTSQWKKHWFVLTDSLSLKYYRDSTAEAEDEL DGEIDLRSCTDVTEYAVQRNYGFIHT

KDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGE  
QRAGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLA  
QRSEERRKWFEATDSRTPEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRE  
NKRVPALTALLNQRSGERRGPPSDGHEALEKEVQALRAQLEAWRLQGEAPQSALRSQEDGH  
IPPGYISQEACERSLAEMESSHQVMEELQRHHERELQRLQQEKEWLLAEETAATASAIE  
AMKKAYQEELSRELSKTRSLQQGPDGLRKQHQSDEALKRELQVLSEQYSQKCLEIGALM  
RQAEEREHTLRRCQEGQELLRHNLHGRLEELIDQLRGFIASQGMNGCGRSNERSSC  
ELEVLLRVKENELQYLKKEVQCLRDELQMMQKDKRFTSGKYQDVYVELSHIKTRSEREIE  
QLKEHLRLAMAALQEKESMRNSLAE

>sp|Q8WUA7|TB22A\_HUMAN TBC1 domain family member 22A OS=Homo sapiens GN=TBC1D22A PE=1  
SV=2

MASDGARKQFWKRSNSKLPGSIQHVYGAQHPPFDPLLHGTLLRSTAKMPTTPVKAKRVST  
FQEFESNTSDAWDAGEDDELLAMAAESLNSEVVMETANRVLNRNHSQRQGRPTLQEGPGL  
QQKPRPEAEPPSPSGDLRLVKSSESHTSCPAESASDAAPLQRSQSLPHSATVTLGGTS  
DPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPKVRPMTWKLLSGYLP  
ANVDRRPATLQRKQKEYFAFIEHYDSRNDEVHQDTYRQIHIDI PRMSPEALILQPKVTE  
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVSGVPAEVLNIE  
ADTYWCMSKLLDGIQDNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFR  
WMNNLLMREVPLRCTIRLWDTYQSEPDGFSHFHLYVCAAFVLRWRKEILEEKDFQELLLF  
LQNLPTAHWDDedislllaeayrlkfafadapnhykk

>sp|Q9H853|TBA4B\_HUMAN Putative tubulin-like protein alpha-4B OS=Homo sapiens GN=TUBA4B  
PE=5 SV=2

MRHQQTERQDPSQPLSRQHGTyrQIFHPEQLITGKEDAANNYAWGHYTIgKEFIDLLDR  
IRKLADQCTGLQGFLVFHSLGRGTGSDVTSFLMEWLSVNYGKSKLGFsiYPAPQVSTAM  
VQPYNsILtTHTTLEHSDCAFMDNKAiYDICHcnLDIERPTYTNLNLISQIVSSITAS  
LRFDGALNVDLtefQTNLVSyltSTSPWPPMHQSSLQKRYTTSSCWQRLPMPALSLPTR  
W

>sp|Q3ZCM7|TBB8\_HUMAN Tubulin beta-8 chain OS=Homo sapiens GN=TUBB8 PE=1 SV=2

MREIVLTQIGQCGNQIGAKFWEVISDEHAIDSAGTYHGDSLQLERINVYYNEASGGRYV  
PRAVLVDLEPGTMDSVRSGPFGQVFRPDNFIgQCGAGNNWAKGHYTEGAELMESVMDVV  
RKEAESCDCLQGfQLTHSLGGTGSGMGTLlLSKIREEYPDRIINTFSILSPKVSdTVV  
EPYNATLSVHQLIENADETFCIDNEALYDICKTLKLPTPTYGDLNHLVSATMSGVTTC  
RFPGQLNADLRKLAVNMVPFRLHFFMPGFAPLTSRGSQQYRALTVAELTQQMFDakNMM  
AACDPRHGRYLTAaAIFRGRMPMREVDEQMFNIQDKNSSYFADWLPNNVKTAVCDIPPRG  
LKMSATFIGNNTAIqELFKRVSEQFTAMFRRKAFLHWYTGEgMDEMEFTEAESNMNDLVS  
EYQYQDATAEEEEDEEYAEEEVA

>sp|Q2M2D7|TBC28\_HUMAN TBC1 domain family member 28 OS=Homo sapiens GN=TBC1D28 PE=2 SV=1  
MEMDEDPDNLPAQGQGNIIITKYEQGHRAAAVDLGHEQVDVRKYTNNGIVHEMELPRV  
SALEVKQRKESKRTNKWQKMLADWTKYRSTKKLSQRVCKVIPLAVRGRALSLLLDIDKI  
KSQNPgKYKVMKEKGKRSSRIIHCTQLDVSHTLQKHMMFIQRFgVKQqELCDILVAYSAY  
NPVSIpGQRYSWYLCpYSQAWVSLGGVATS

>sp|POC7X1|TBC3H\_HUMAN TBC1 domain family member 3H OS=Homo sapiens GN=TBC1D3H PE=2 SV=3  
MDVVEVAGSwwAQEREDIIMKYEKghragLPEDKGPKPFRSYNNNVdHLGIVHETELPPL  
TAREAKQIRREISrKSKVdMLGDWEKYSSrKLIDRAYKGMPMNIRGPMWSVLLNTEEM

KLKNPGRYQIMKEKGKRSSEHIQRIDRDISGTLRKHMFFRDYGTKQRELLHILLAYEY  
NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLCCGCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLP  
AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVSAFAAPSTDSDQGTFFRARDEQQCAPTSGPCLCGLHL  
ESSQFPFPGF

>sp|Q9UJT1|TBD\_HUMAN Tubulin delta chain OS=Homo sapiens GN=TUBD1 PE=2 SV=2

MSIVTVQLGQCGNQIGFEVFDALLSDSHSSQGLCSMRENEAYQASCKERFFSEEENGVP  
ARAVLDMEPKVINQMLSKAAQSGQWKYGGHACFCQKQSGGNWAYGYSVHGPRHEESIM  
NIIRKEVEKCDSSFSGFFIIMSMAGGTGSGLGAFVTQNLEDQYSNSLKMNIQIWPYGTGEV  
IVQYNYSILTLSHLYRSSDALLHENDAIHKICAKLMNIKQISFSDINQVLAHQLGSVFQ  
PTYSAESSFHYYRNPLGDLMEHLVPHPEFKMLSVRNIPHMSENSLAYTTFTWAGLLKHLR  
QMLISNAKMEEGIDRHVWPPLSGLPPLSKMSLNKDLHFNTSIANLVILRGKDVQSADVEG  
FKDPALYTSWLKPVNAFNVWKTQRAFSKYEKSAVLVSNSQFLVKPLDMIVGKAWNMFASK  
AYIHQYTKFGIEEEDFLDSFTSLEQVVASYNL

>sp|O60907|TBL1X\_HUMAN F-box-like/WD repeat-containing protein TBL1X OS=Homo sapiens  
GN=TBL1X PE=1 SV=3

MTELAGASSSCCHRPAGRGAMQSVLHHFQRLRGREGGSHFINTSSPRGEAKMSITSDEVN  
FLVYRYLQESGFSHSAFTFGIESHISQSNINGTLVPPAALISILQKGLQYVEAEISINED  
GTVFDGRPIESLSLIDAVMPDVVQTRQAFREKLAQQQASAAAAAATAAATAATTSA  
GVSHQNPSKNREATVNGEENRAHSVNNHAKPMEIDGEVEIPSSKATVLRGHESEVFICAW  
NPVSDLLASGSGDSTARIWNLNENSNGGSTQLVLRHCIREGGHDVPSNKDVTSLDWNTNG  
TLLATGSYDGFARIWTEGDLASTLGQHKGPFIKWKNRKGNILSAGVDKTTIIWDAHT  
GEAKQGFPHFSAPALDVWQNTTFASCSTDMCIHVCRLGCDRPVKTFQGHTNEVNAIKW  
DPSGMLLASCSDDMTLKIWSMKQEVCIHDLQAHNKEIYTIKWSPTGPATSNPNSNIMLAS  
ASFDSTVRLWDIERGVCTHTLTKHQEPVYSVAFSPDGKYLASGSFDKCVHIWNTQSGNLV  
HSYRGTTGGIFEVCWNARGDKVGASASDGSVCLDLRK

>sp|P50991|TCPD\_HUMAN T-complex protein 1 subunit delta OS=Homo sapiens GN=CCT4 PE=1 SV=4

MPENVAPRSGATAGAAGGRGKAYQDRDKPAQIRFSNISAAKAVADAIRTSLGPKGMDKM  
IQDGKGDVTITNDGATILKQMQLVHPAARMLVELSKAQDIEAGDGTSSVVIAGSLDSC  
TKLLQKGIHPTIISESFQKALEKGIEILTMSRPVELSDRETLLNSATSLNSKVVQSYS  
SLLSPMSVNAVMMKVIDPATATSVDLRDIKIVKKLGGTIDDCELVGLVLTQKVSNSGITR  
VEKAKIGLIQFCLSA PKTMDNQIVVSDYAQMDRVLRERAYILNLVKQIKKTGCNVLLI  
QKSILRDALSDLALHFLNMMKIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAE  
LAEVNLNGSGKLLKITGCASPGKTVTIVVRGSNKLVEEAERSIHDALCVIRCLVKKRA  
LIAGGGAPEIELALRLTEYSRTLGMESYCVRAFADAMEVIPSTLAENAGLNPISTVTEL  
RNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALTATETVRSILKIDDVNTR

>sp|P40227|TCPZ\_HUMAN T-complex protein 1 subunit zeta OS=Homo sapiens GN=CCT6A PE=1 SV=3

MAAVKTLNPKAEVARAQAALAVNISAAAGLQDVLRTNLGPKGTMKMLVSGAGDIKLTGDG  
NVLLHEMQIQHPTASLIAKVATAQDDITGDGTSSNVLIIGELLKQADLYISEGLHPRIIT  
EGFEAAKEKALQFLEEVKVSREMDRETLIDVARTSLRTKVHAELADVLTEAVVDSILAIK  
KQDEPIDLFMIEIMEMKHKSETDTSILRGLVLDHGARHPDMKKRVEDAYILTCNVSLEYE

KTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIELKRKVCSDSGFVVINQKGIDPF  
SLDALSKEGIVALRRARRRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKF  
TFIEKCNNPRSVTLTIKGPKNHTLTQIKDAVRDGLRAVKNAIDGCVVPGAGAVEVAMAE  
ALIKHKPSVKGRAQLGVQAFADALLIIPKVLAQNSGFDLQETLVKIQAEHSESGQLVGVD  
LNTGEPMVAAEVGVWDNYCVKKQLLHSCVTIATNILLVDEIMRAGMSSLKG

>sp|Q5VWI1|TCRGL\_HUMAN Transcription elongation regulator 1-like protein OS=Homo sapiens  
GN=TCERG1L PE=2 SV=2

MQAGARFQRRRRQLQQQQPRRRQPLLWPMDAEPPPPPPVWVMPGSAGLLRLSAGVVVPP  
VLLASAPPPAAPLLPLPGWPAPSEVLPPLPLPSAPDSAAAAAHPFALHGQWLFGGH  
SPSLGLPPSSTVELVPVPHLCPSALATPIGKSWIDKRIPNCKIFFNNSFALDSTWIHPE  
ESRFFHGHEKPRLLANQVAVLSRPAPASRPLPTVVLAPQPIPGGCHNSLKVTSSPAIAI  
ATAAAAAMVSVDPENLRGSPSSVQPRHFLTAPIKIPLRTSPVSDTRTERGRVARPPAL  
MLRAQKSRDGDKEDEPPPMMLGGGEDSTARGNRPVASTPVPGPSWCVVWTGDDRVFFFP  
TMHLSVWEKPMDLKDRGDLNRIIEDPPHKRKLAPATDNSDGSSSEDNREDQDVKTNRN  
TEGCGSPKPEEAKREDKGTTRTPPPQILLPLEERVTHFRDMLLERGVSAFSTWEKELHKIV  
FDPYRLLLNSEERKQIFEQFVKTRIKEEYKEKSKLLAKEEFKLLLEESKVSPTTFKE  
FAEKYGRDQRFRLVQKRKDQEHFFNQFILILKKRDKENRLRLRKM

>sp|Q5QJE6|TDIF2\_HUMAN Deoxynucleotidyltransferase terminal-interacting protein 2 OS=Homo  
sapiens GN=DNTTIP2 PE=1 SV=2

MVVTRSARAKASIQAASAESSGQKSFAANGIQAHPESSGSDARTTAESQTTGKQSLIPR  
TPKARKRKSRTTGSPLKSTEPSTGETSEAESNYSVSEHHDITLRVTRRRQILIACSPVS  
SVRKKPKVTPTKESYTEEIVSEAESHVSGISRIVLPTEKTTGARRSKAKSLTDPSQESHT  
EAISDAETSSSDISFSGIATRRTRSMQRKLKAQTEKKDSKIVPGNEKQIVGTPVNSESD  
TRQTSHLQARSLSEINKPNFYNNDFDDDFSHRSENILTVHEQANVESLKETKQNCCKLD  
EDANGITDEGKEINEKSSQLKNLSELQDTSLLQQLVSQRHSTPQKNNAVSVHNLNSEAVM  
KSLTQTFATVEVGRWNNNKKSPIKASDLTKFGDCGSDDEEESTVISVSEDMNSEGNVDF  
ECDTKLYTSAPNTSQGKDNVLLVLSDESQQSENSENEEDTLCFVENSQGRESLSGDTG  
SLSCDNALFVIDTTPGMSADKNFYLEEEDKASEVAIEEEEEEEDEKSEEDSSDHENED  
EFSDEEDFLNSTAKLLKLSSSIDPGLSIKQLGGLYINFNADKLQSNKRTLTIKEKKK  
NELLQKAVITPDFEKNHCVPYSESKYQLQKKRRKERQKTAGDGWFGMKAPEMTNELKND  
LKALKMRASMDPKRFYKKNDRDGFPKYFQIGTIVDNPADFYHSRIPKKQRKRTIVEELLA  
DSEFRYNNRRKYSEIMAEKAANAAGKKFRKKKKFRN

>sp|Q8NHU6|TDRD7\_HUMAN Tudor domain-containing protein 7 OS=Homo sapiens GN=TDRD7 PE=1  
SV=2

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RIETSRSGEITCYAMACTETARIAQLVARQRSSKRKTGRQVNCQMRVKKTMPPFLEGPK  
ATLRQPGFASNFVGKPNPAPLRDKGNSVGVPDAEMSPYMLHTTLGNEAFKDIPVQRH  
VTMSTNNRFSKASLQPPQLMHLSTSTKEMSDNLNQTVEKPNVKPPASYTYKMDEVQNR  
IKEILNKHNGIWIISKLPHFYKELYKEDLNQGILQQFEHWPHTVEKPCSGGQDLLLYP  
AKRKQLLRSELDTEKVPPLPGPKQTPPLKGCPTVMAGDFKEKVADLLVKYTSGLWASA  
LPKAFEEMYKVFPEDALKNLASLSDVCSIDYISGNPQKAILYAKLPLPTDKIQKDAGQA  
HGDNDIKAMVEQEYLQVEESIAESANTFMEDITVPPLMIPTASPSVLVVELSNTNEVVI  
RYVGKDYSAQELMEDEMKEYYSKNPKITPVQAVNVGQLLAVNAEEDAWLRAQVISTEEN  
KIKVCYVDYGFSENVEKSKAYKLNPKFCSLSFQATKCKLAGLEVLSDDPDLVKVVESLTC

GKIFAVEILDKADIPLVVLVDTSGEDDININATCLKAICDKSLEVHLQVDAMYTNVKVTN  
ICSDGTLYCQVPCKGLNKLSDLLRKIEDYFHCKHMTSECFVSLPFCGKICLFHCKGKWL  
VEITNVHSSRALDVQFLDSGTVTSVKVSELREIPPRFLQEMIAIPPQAICKCLADLPQSI  
GMWTPDAVLWLRDSVLNCSDCSIKVTKVDETRGIAHVYLFTPKNFPDPHRSINRQITNAD  
LWKHQKDVFLSAISSGADSPNSKNGNMPMSGNTGENFRKNLTDVIKSMVDHTSAFSTEE  
LPPPVHLSKPGEHMDVYVPVACHPGYFVIQWPQEIHKLEVLMEEMILYYSVSEERHIAVE  
KDQVYAAKVENKWHRVLLKGILTNGLVSVYELDYGKHELVNIRKVQPLVDMFRKLPFQAV  
TAQLAGVKCNQWSEEASMVFRNHVEKKPLVALVQTVIENANPWDRKVVVYLVDTSLPDTD  
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>sp|Q8NDG6|TDRD9\_HUMAN Putative ATP-dependent RNA helicase TDRD9 OS=Homo sapiens GN=TDRD9  
PE=2 SV=3

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QAPARPAAAFERSLSQRSSEVEYINKYRQLEAQELDVCRSVQPTSGPGPRPSLAKLSSVT  
CIPGTTYKYPDLISRYKEEVVSLIESNSVVI IHGATGSGKSTQLPQYILDHYVQRSAYC  
SIVVTQPRKIGASSIARWISKERAWTLGGVVG YQVGLEKIATEDTRLIYMTTGVL LQKIV  
SAKSLMEFTHII IDEVHERTEEMDFLLL VVRKLLRTNSRFVKVVLMSATISCKEFADYFA  
VPVQNKMPAYIFEVEGKPHSVEEYYLNDLEHIIHHSKLSPHLLEPVITKDIYEVAVSLI  
QMFDDLD MKESGNKAWSGAQFVLERSSVLVFLPGLGEINYMHELLTSLVHKRLQVYPLHS  
SVALEEQNNVFLSPVPGYRKI ILSNIAESSVTVPDVKYVIDFCLTRTLVCD EDTNYQSL  
RLSWASKTSCNQKRGRAGRVSRGYCYRLVHKDFWDNSIPDHVVP EMLRCPLGSTILKVKL  
LDMGEPRALLATALSPPLSDIERTILLKEVGALAVSGQREDENPHDGELTFLGRVLAQ  
LPVNQQLGKLIVLGHVFGCLDECLIIAAALSLKNFFAMPFRQHLDGYRNKVNFGSGSSKSD  
CIALVEAFKTKWACRQTGELRYPKDELNWGR LNYIQIKRIREVAELYEELKTRISQFNMH  
VDSRRPVM DQEYIYKQRFILQVVLAGAFYPNYFTFGQPDEEMAVRELAGKDPKTTVVLKH  
IPPYGFLYYKQLQSLFRQCGQVKSIVFDGAKAFVEFSRNPTERFKTLPVYMAIKMSQLK  
VSLELSVHSAEEIEGKVQGMNVSKLRNTRVNVD FQKQTVDPMQVSFN TSDRSQTVTDLLL  
TIDVTEVVEVGHFWGYRIDENNSEILKKLTA E INQLTLVPLP THPHPDLVCLAPFADF  
KQRYFRAQVLYVSGNSAEVFFVDYGNKSHVDLHLLMEIPCQFLELPPQALEFKICKMRPSA  
KSLVCGKHWS DGASQWFASLVSGCTLLVKVFSVVH SVLHVDVYQYSGVQDAINIRDVLIQ  
QGYAELTEESYESKQSHEVLKGLFSKSVENMTDGSVPFPMKDDEKYLIRILLESFSTNKL  
GTPNCKAELHGFPNPYELKCHSLTRISKFR CVWIEKESINSV IISDAPEDLHQRLVAAS  
LSINATGSTMLLRETSLMPHIPGLPALLSMLFAPVIELRIDQNGKYTGVL CGLGWNPAT  
GASILPEHDMELAFDVQFSVEDVVEVNILRAA INKLVC DGPNGCKCLGP ERVAQLQDIAR  
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GT

>sp|P28347|TEAD1\_HUMAN Transcriptional enhancer factor TEF-1 OS=Homo sapiens GN=TEAD1  
PE=1 SV=2

MEPSSWSGSESPAENMERMSDSADKPIDNDAEGVWSPDIEQSFQEALAIYPPCGRRKIIL  
SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSH IQVLARRKSRDFH SKLKDQTAKDKALQ  
HMAAMSSAQIVSATAIHNLGLPGIPRPTFP GAPGFWPGMIQTGQPGSSQDVKPFVQQAY  
PIQPAVTAPIPGFEPASAPAPSPAWQGRSIGTTKLRLVEFSAFLEQQRDPDSYNKHLFV  
HIGHANHSYSDPLLESVDIRQIYDKFPEKKGGLKELFGKGPQNAFFLVKFWADLNCNIQD  
DAGAFYGVTSQYESSENMTVTCTSKVCSFGKQVVEKVET EYARFENG RFVYRINRSPMCE  
YMINFIHKLKHLPEKYMMNSVLENFTILLVVTNRDTQETLLCMACVFEVSNSEHGAQHHI



YRLVKD

>sp|Q15561|TEAD4\_HUMAN Transcriptional enhancer factor TEF-3 OS=Homo sapiens GN=TEAD4  
PE=1 SV=3

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CGRRKIILSDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKAREIQAKLKDQ  
AAKDQALQSMAMSSAQIIISATAFHSSMALARGPGRPAVSGFWQGALPGQAGTSHDVKPF  
SQQTYAVQPPLPLPGFESPAGPAPSPSAPPAPPWQGRSVASSKLWMLEFSAFLEQQQDPD  
TYNKHFLFVHIGSSPSYSDPYLEAVDIRQIYDKFPEKKGGLKDLFERGPSNAFFLVKFWA  
DLNTNIEDEGSSFYGVSSQYESPENMIITCSTKVCSFGKQVVEKVETERYARYENGHYSYR  
IHRSPICEYMINFIHKLKHLPEKYMNSVLENFTILQVVTNRDTQETLLCIAVVEVSAS  
EHGAQHIIYRLVKE

>sp|Q8N8B7|TEANC\_HUMAN Transcription elongation factor A N-terminal and central domain-  
containing protein OS=Homo sapiens GN=TCEANC PE=1 SV=2

MSDKNQIAARASLIEQLMSKRNFEDLGNHLELETIYVTKEHLQETDVVRVYRVLKNCP  
SVALKKKAKCLLSKWAVYKQTHSKARNSPKLFPVRGNKEENSGPSHDPSQNETLGICSS  
NSLSSQDVAKLSEMIVPENRAIQKPKKEEHFGDGDPESTGKRSELDPPTPMRTKCIEL  
LYAALTSSSTDQPKADLWQNFAREIEEHVFTLYSKNIKKYKTCIRSKVANLKNPRNSHLQ  
QNLLSGTTSPEFAEMTVMEMANKELKQLRASYTESCIQEHYLPQVIDGTQTNKIKCRRC  
EKYNCKVTVIDRGTFLPSWVRNSNPDEQMMTYVICNECGEQWYHSKWVCW

>sp|Q96GX1|TECT2\_HUMAN Tectonic-2 OS=Homo sapiens GN=TCTN2 PE=2 SV=1

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DEAGILPIPTCGVLNNETEDWSVTVIPGAKVLEVTVRWKRGLDWCSSNETDSFSESPCIL  
QTLLVSASHNSSCSAHLIIQVEIYANSSLTHNASENVTVIPNQVYQPLGPCPCNLTAGAC  
DVRCCDQECSSNLTTLFRRSCFTGVFGDVNPPFDQLCSAGTTTRGVDPWFPLCVQSP  
LANTPFLGYFYHGAVSPKQDSSFEVYVDTDAKDFADFGYKQGDPIMTVKKAYFTIPQVSL  
AGQCMQNAPVAFLHNFVDKCVTNLELYQERDGIINAKIKNVALGGIVTPKVIYEEATDLD  
KFITNTETPLNNGSTPRIVNVEEHYIFKWNNTISEINVKIFRAEINAHQKGIMTQRFVV  
KFLSYNSGNEELSGNPGYQLGKPVRLNINRMNVTTLHLWQSAGRGLCTSATFKPILF  
GENVLSGCLLEVGINENCTQLRENAVERLDSLIQATHVAMRGNSDYADLSDGWLEIIRVD  
APDPGADPLASSVNGMCLDIPAHLISIRILISDAGAVEGITQQEILGVETRFSSVNWQYQC  
GLTCEHKADLLPISASVQFIKIPAQLPHPLTRFQINYTEYDCNRNEVCWPQLLYPWTQYY  
QGELHSQCVAKGLLLLLLFLTLALFLSNPWTRICKAYS

>sp|P42680|TEC\_HUMAN Tyrosine-protein kinase Tec OS=Homo sapiens GN=TEC PE=1 SV=2

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CVEIVKNDGVI PCQNKYPFQVVDANTLYIFAPSPQSRDLWVKKLKEEIKNNNNIMIKY  
HPKFWTDGSYQCCRQTEKLAPGCEKYNLFESSIRKALPPAPETKKRRPPPIPLEEEDNS  
EEIVVAMYDFQAAEGHDLRLERGQEYLILEKNDVHWWRRADKYGNEGYIPSNYVTGKKS  
NLDQYEWYCRNMNRSKAEQLLRSEDKEGGFMVRDSSQPGLYTVSLYTKFGGEGSSGFRHY  
HIKETTTSPKKYYLAEKHAFGSIPEII EYHKHNAAGLVTRLRYPVSVKGKNAPTTAGFSY  
EKWEINPSELTFMRELGSGLFGVVRLGKWRAQYKVAIKAIREGAMCEEDFIEEAKVMMKL  
THPKLVQLYGVCTQQKPIYIVTEFMERGCLLNFLRQRQGHFSRDVLLSMCQDVCEGMEYL  
ERNFSFIHRDLAARNCLVSEAGVVKVSDFGMARYVLDDQYTSSSGAKFPVKWCPPEVFNYS  
RFSSKSDVWSFGVLMWEVFTEGRMPFEKYTNVEVVTMVTRGHRLYQPKLASNYVVEVMLR  
CWQEKPEGRPSFEDLLRTIDELVECEETFGR

>sp|Q8WW24|TEKT4\_HUMAN Tektin-4 OS=Homo sapiens GN=TEKT4 PE=1 SV=1

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QSERQRHESQQLATETQALAQRTQQDSTRTVGERLQDTHSWKSELQREMEALAAETNLLL  
AQKQRLERALDATEVPFSITDNLQCRERREHPNLVRDHVETELLKEAELIRNIQELLKR  
TIMQAVSQIRLNREHKETCEMDWSDKMEAYNIDETCGRHHSQSTEVQAHPYSTTFQESAS  
TPETRAKFTQDNLCAQRERLASANLRVLVDCILRDTSEDLRLQCDAVNLAFGRRCEELE  
DARYKLHHHLHKTLEITDQEHNVAALKQAIKDKEAPLHVAQTRLYLRSRPNMELCRDA  
AQFRLLSEVEELNMSLTALREKLLEAEQSLRNLEDIHMSLEKDIAAMTNSLFIDRQKCMA  
HRTRYPTILQLAGYQ

>sp|Q9Y4R8|TELO2\_HUMAN Telomere length regulation protein TEL2 homolog OS=Homo sapiens  
GN=TELO2 PE=1 SV=2

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PVLRCASRLSPAWELELLPHGRLEELWASFFLEGPADQAFVLVLMETIEGAAGPSFRLMKM  
ARLLARFLREGRLAVLMEAQCRQQTQPGFILLRETLLGKVVALPDHLGNRLQQENLAEFF  
PQNYFRLLGEEVVRVLQAVVDSLQGGLDSSVSFVSQVLGKACVHGRQQEILGVLVPRLAA  
LTQGSYLHQRVCWRLVEQVPDRAMEAVLTGLVEAALGPEVLSRLLGNLVVKNKKAQFVMT  
QKLLFLQSRLTTPMLQSLLGHLAMDSQRRPPLLQVLKELLETTWGSSSAIRHTPLPQQRHV  
SKAVLICLAQLGEPELRDSRDELLASMMAGVKCRLDSSLPPVRRGMIVAEVVSARIHPE  
GPPLKFQYEEDELSLELLALASPQAGDGASEAGTSLVPATAEPPAETPAEIVDGGVPQA  
QLAGSDSDLDSDDEFVPYDMSGDRELKSSKAPAYVRDCVEALTTSEDIERWEAALRALEG  
LVYRSPTATREVSVELAKVLLHLEEKTCVVGFAGLRQRALVAVTVTDPAPVADYLT SQFY  
ALNYSLRQRMIDLDVLTAAQELSRPGCLGRTPQPGSPSPNTPCLPEAAVSQPGSAVASD  
WRVVVEERIRSKTQRLSKGGPRQGPAGSPSRFNSVAGHFFFLLRFRDPLVTFDLLGED  
QLVLGRLAHTLGALMCLAVNTTVAVAMGKALLEFVWALRFHIDAYVRQGLLSAVSSVLLS  
LPAARLLEDLMDELLEARSWLADVAEKDPDEDCRTLALRALLLLQRLKNRLLPPASP

>sp|Q9HBL0|TENS1\_HUMAN Tensin-1 OS=Homo sapiens GN=TNS1 PE=1 SV=2

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SERRPDITKLHAKVLEFGWPDLHTPALEKICSICKAMDTWLNADPHNVVVLHNKGNRGRI  
GVVIAAYMHYSNISASADQALDRFAMKRFYEDKIVPIGQPSQRRYVHYFSGLLSGSIKMN  
NKPLFLHHVIMHGIPNFESKGGCRPFLRIYQAMQPVYTSGIYNIPGDSQTSVCITIEPGL  
LLKGDILLKCYHKKFRSPARDVIFRVQFHTCAIHDLGVVFGKEDLDDAFKDDRFPEYGKV  
EFVFSYGPEKIQGMEHLENGPSVSVDYNTSDPLIRWDSYDNFSGHRDDGMEEVVGHTQGP  
LDGSLYAKVKKKDSLHGSGTAVNATRPATLSPNHVEHTLSVSSDSGNSTASTKTDKTDE  
PVPGASSATAALSPQEKRELDRLLSGFGLEREKQGAMYHTQHLRSRPAGGSAPVSSGRHV  
VPAQVHVNGGALASERETDILDDELNPQDGHSGSMGTLSLDGVTNTSEGGYPEALSPL  
TNGLDKSYPMEMVNGGGYPYESASRAGPAHAGHTAPMRPSYSAQEGLAGYQREGPHPAW  
PQPVTTSHYAHDPSGMFRSQSFSEAEPLPPAPVRGGSSREAVQRGLNSWQQQQQQQQQP  
RPPPRQQERAHLESIVASRSPQPLAETPIPSLPEFPRAASQQEIEQSIETLNMLMLDLE  
PASAAAPLHKSQSVPGAWPGASPLSSQPLSGSSRQSHPLTQSRSGYIPSGHSLGTPEPAP  
RASLESVPPGRSYSPDYQPCLAGPNQDFHSKSPASSSLPAFLPTTHSPPGPQQPPASLP  
GLTAQPLLSPKEATSDPSRTPEEEPLNLEGLVAHRVAGVQAREKQPAEPPAPLRRRAASD  
GQYENQSPEATSPRSPGVRSPVQCVSPELALTIALNPGGRPKEPHLSYKEAFEEMEGTS  
PSSPPPSGVRSPPLAKTPLSALGLKPHNPADILLHPTGVTRRRRIQPEEDEGKVVVRLSE  
EPRSYVESVARTAVAGPRAQDSEPKSFSAPATQAYGHEIPLRNRTLGGSFVSPSPLSTSS

PILSADSTSVGSFSPSGESSDQGPRTPTQPLLESGFRSGSLGQPSPSAQRNYQSSSPLPTV  
GSSYSSPDYSLQHFSSSPESQARAQFSVAGVHTVPGSPQARHRTVGTNTPPSPGFWRAI  
NPSMAAPSSPSLSHHQMMGPPGTGFHGSTVSSPQSSAATTPGSPSLCRHPAGVYQVSGLH  
NKVATTPGSPSLGRHPGAHQNLASGLHSNAIASPGSPSLGRHLGGSGSVVPGSPCLDRH  
VAYGGYSTPEDRRPTLSRQSSASGYQAPSTPSFPVSPAYYPGLSSPATSPSPDSAAFRQG  
SPTPALPEKRRMSVGDRAAGSLPNYATINGKVSSPVASGMSSPSGGSTVSFSHTLPDFSKY  
SMPDNSPETRAKVKFVQDTSKYWKPEISREQAIALLDKQEPGAFIIRDSHSFRGAYGLA  
MKVSSPPPTIMQQNKKGDMTHELVRHFLIETGPRGVKLKGCNPNFNGSLSALVYQHSII  
PLALPCKLVIPNRDPTDESKDSSGANSTADLLKQGAACNVLFVNSVDMESLTGPQAISK  
ATSETLAADPTPAATIVHFKVSAQGITLTDNQKRLFFRRHYPLNTVTFCDLDPQERKWMK  
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>sp|Q8NFU7|TET1\_HUMAN Methylcytosine dioxygenase TET1 OS=Homo sapiens GN=TET1 PE=1 SV=2

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KTEPKPPVPVRSLLTRAGAARMNLDRTVELFQNPESLTCNGFTMALRSTLSRRLSQPPL  
VVAKSKKVPLSKGLEKHCDYKILPALGVKHSENDVPMQDTQVLPDIETLIGVQNPSL  
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KMFADQTVCAPFPQRATPKVTSQGNPSIQLEELGSRVESLKLSDSYLDPIKSEHDCYPTS  
SLNKVIPDLNLRNCLALGGSTSPTSVIKFLLAGSKQATLGAKPDHQEAFEATANQQEVSD  
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MSGSVVPDLPVFLPVPPNPFIATFNAPSKWPEPQSTVSYGLAVQGAIQILPLGSGHTPQSS  
SNSEKNSLPPVMAISNVENEKQVHISFLPANTQGFPLAPERGLFHASLGIAQLSQAGPSK  
SDRGSSQVSVTSTVHVNTTVTMPVPMVSTSSSYTTLLPTLEKKKKRRCGVCEPCQQK  
TNCGECTYCKNRKNSHQICKKRKCEELKKKPSVVVPLEVIKENKRPQREKKPKVLKADF  
NKPVNGPKSESMDSYRSGHGEEQKLELNPHTVENVTKNEDSMTGIEVEKWTQNKKSQD  
HVKGDFSANVPEAEKSKNSEVDKKRTKSPKLFVQTVRNGIKHVHCLPAETNVSFKKFNIE  
EFGKTLNNSYKFLKDTANHKNAMSSVATDMSCDHLKGRSNVLVFQQPGFNCSSIPHSSH  
SIIINHASIHNEGDQPKTPENIPSKEPKDGSVPVQPSLLSLMKDRRLTLEQVVAIEALTQL  
SEAPSENSSPSKSEKDEESEQRITASLLNSCKAILYTVRKDLQDPNLQGEPPKLNHCPSLE  
KQSSCNTVVFNQTTLSNSHINSATNQASTKSHEYSKVTNSLSLFIKSNSSKIDTNKS  
IAQGIITLNCNDLHLQPPRNNEVEYCNQLLDSSKKLSDDDLSCQDATHTQIEEDVATQ  
LTQLASIIKINYIKPEDKKVESTPTSLVTCNVQQKYNQEKGTIQKPPSSVHNNHGSSLT  
KQKNPTQKKTSTPSRDRRKKKPTVVSYQENDRQKWEKLSYMGITCDIWIASKFQNFQG  
FCPHDFPTVFGKISSSTKIWKPLAQTRSIMQPKTVFPPLTQIKLQRYPESAEKVKVEPL  
DSLFLHLKTESNGKAFTDKAYNSQVQLTVNANQKAHPLTQPSSPPNQCANVMAGDDQIR  
FQQVVEQLMHQRLPTLPGISHETPLPESALTLRNVNVCSGGITVVSTKSEEEVCSSSF  
GTSEFSTVDSAQKNFNDYAMNFFTNPITKNLVSITKDSELPTCSCLDRVIQKDKGPYYTHL  
GAGSPVAAVREIMENRYGQKGNARIEIVVYTGKEGKSSHGCPIAKWVLRRSSDEEKVLC  
LVRQRTGHHCTAVMVVLMVWDGIPLPMADRLYTELTENLKSNGHPTDRRCTLNENRT  
CTCQGIDPETCGASFSGCSWSMYFNGCKFGRSPSPRRFRIDPSSPLHEKNLEDNLQSLA  
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GSTVVCTLTREDNRSLGVIPQDEQLHVLPLYKLSDTDEFGSKEGMEAKIKSGAIEVLAPR  
RKKRTCFTQPVPRSGKKRAAMMTEVLAHKIRAVEKKPIPRIKRNSTTTNNSKPSSLPT  
LGSNTETVQPEVKSETEPHFILKSSDNTKTYSLMPSAPHPVKEASPGFSWSPKTASATPA  
PLKN DATASCGFSERSSTPHCTMPSGRLSGANAAAADGPGISQLGEVAPLPTLSAPVMEP

LINSEPTGVTEPLTPHQPNHQPSFLTSPQDLASSPMEEDEQHSEADEPPSDEPLSDDPL  
SPAEEKLPHIDEYWSDEHIFLDANIGGVAIAPAHGSVLIECARRELHATTPVEHPNRNH  
PTRLSLVIFYQHKNLNKPQHGFELNKIKFEAKEAKNKKMKASEQKDQAANEGPEQSSEVNE  
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>sp|043151|TET3\_HUMAN Methylcytosine dioxygenase TET3 OS=Homo sapiens GN=TET3 PE=1 SV=3

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LQTALALARHGMKPPNCNCDGPECPDYLEWLEGGIKSVVMEGGEERPRLPGPLPPGEAGL  
PAPSTRPLLSSEVPQISPEGLPLSQSALSIAKEKNISLQTAIAIEALTQLSSALPQPSH  
STPQASCPLPEALSPAPFRSPQSYLRAPSWPVVPPEEHSSFAPDSSAFFPATPRTEFPE  
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SSSPAPAPSPVLQREAPTPSSEPDPHQKAQTALQQHLHHKRSLEQVHDTSFAPSEPS  
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RELMEERYGEKGKAIKRIEKVIYTGKEGKSSRGCPIAKWVIRRHTLEKLLCLVRHRAGHH  
CQNAVIVILILAWEGIPRSLGDTLYQELDTLRKYGNPTSRRCGLNDDRTCACQGKDPNT  
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EDNRCVGKIPEDQLHVLPLYKMANTDEFGSEENQNAKVGSGAIQVLTAFPREVRRLPEP  
AKSCRQRQLEARKAAAEKKKIQKEKLSTPEKIKQEALELAGITSDPGLSLKGGLSQGLK  
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HSKYALPSFSYYGFSSNPVFPSSQFLGPGAWGHSGSSGFEKKPDLHALHNSLSPAYGGA  
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IKQEPVDPLTQAEVPVRDAGKMGTPLSEVSQNGGPSHLWGQYSGGPSMSPKRTNGVGG  
WGVFSSGESPAIVPDKLSSFGASCLAPSHFTDGQWGLFPGEGQAASHSGGRLRGKPWSP  
CKFGNSTSALAGPSLTEKPWALGAGDFNSALKGSPGFQDKLWNP MKGEEGRIPAAGASQL  
DRAWQSFGLPLGSSEKLFALKSEEKLWDPFSLEEGPAEEPPSKGAVKEEKGGGAEED  
EELWSDSEHNFLDENIGGVAVAPAHGSILIECARRELHATTPKKPNRCHPTRISLVFYQ  
HKNLNQPNHGLALWEAKMKQLAERARARQEEAARLGLGQQAELYGKKRKWGGTVVAEPQ  
QKEKKGVPTRQALAVPTDSAVTVSSYAYTKVTGPYSRWI

>sp|Q8IWB6|TEX14\_HUMAN Inactive serine/threonine-protein kinase TEX14 OS=Homo sapiens  
GN=TEX14 PE=1 SV=2

MSRAVRLPVPCPVQLGTLRNDLSLEAQLHEYVKQGNVVKVKILKKGIYDAVNSLGQTAL  
FVAALLGLRKFDVLDYSDPNHRCFDGSTPVHAAAFSGNQWILSKLLDAGGDLRLHDE  
RGQNPKTWALTAGKERSTQIVEFMQRCASHMQAIIQGFSYDLLKKIDSPQRLVYSPSWCG  
GLVQGNPNNGSPNRLKAGVISAQNIYSFGFGKAMPWFQFYLTGATQMAYLGSLPVIGEKE  
VIQADDEPTFSFFSGPYMVTNLVWNGSRVTVKELNLPHPHCSRLRLADLLIAEQEHSS  
KLRHPYLLQLMAVCLSQDLEKTRLVYERITIGTLFSVLHERRSQFPVLHMEVIVHLLLQI  
SDALRYLHFQGFIIHRSLSYAVHIISPGEARLTNLEYMLESEDRGVQRDLTRVPLPTQLY  
NWAAPDEVILQKAATVKSDIYSFSMIMQEILTDDIPWKGLDGSVVKKAVVSGNYLEADVRL  
PKPYYDIVKSGIHVKQKDRTMNLQDIRYILKNDLKDFGTGAQRTQPTESPRVQRYGLHPDV

NVYLGLTSEHPRETPDMEI IELKEMGSQPHSPRVHSLFTEGLDPQAPDPCLMARETNQ  
DAPCPAPFMAEEASSPSTGQPSLCSFEINEIYSGCLILEDDIEPPGAASSLEADGPNQV  
DELKSMEEELDKMEREACCFGSEDESSKAETEYSFDDWDWQNGSLSSLSLPESTREAKS  
NLNMMSTTEEYLISKCVLDLKIMQTIMHENDRLRNIEQILDEVEMKQKEQEERMSLWAT  
SREFTNAYKLPLAVGPPSLNYIPPVLQLSGGQKPDTSNGNYPTLPRFPRMLPTLCDPGKQN  
TDEQFQCTQGAKDSLETSRIQNTSSQGRPRESTAQAKATQFNSALFTLSSHRQGPSASPS  
CHWDSTRMSVEPVSEIYNAESRNKDDGKVHLKWKMEVKEMAKKAATGQLTVPPWHPQSS  
LTLESEAENEPDALLQPPIRSPENTDWQRVIEYHRENDEPRGNGKFDKTGNNDSDQHG  
RQPRLGSTFSIRHPSPRQKEQEPHSEAFQASSDTLVAVEKSYSHQSMQSTCSPESSEDIT  
DEFLTPDGEYFYSSTAQENLALETSSPIEEDFEGIQGAFAQPQVSGEEKFQMRKILGKNA  
EILPRSQFQPVRSTEDEQEETSKEPKELKEKDISLTDIQDLSSISYEPDSSFKEASCKT  
PKINHAPTSVSTPLSPGVSAAASQYKDCLESITFQVKTEFASCWNSQEFIQTLSDDFIS  
VRERAKKLDSELLTSETPPSRLTGLKRLSSFIGAGSPSLVKACDSSPPHATQRRSLPKVE  
AFSQHHIDELPPPSQELLDDIELLKQQQGSSTVLHENTASDGGGTANDQRHLEEQETDSK  
KEDSSMLLSKETEDLGEDTERAHSTLDEDLERWLQPPEESVELQDLPKGSERETNIKDQK  
VGEEKRRKREDSITPERRKSEGLTSEEDELKSCFWKRLGWESSRIIVLDQSDLS

>sp|Q96LM6|TEX37\_HUMAN Testis-expressed sequence 37 protein OS=Homo sapiens GN=TEX37 PE=1  
SV=1

MAGVKYPGQDPVDLDIYQSSHMVDYQPYRKHKYSRVTPQEQAKLDAQLRDKEFYRIPNP  
NPKLTDGYPAFKRPHMTAKDLGLPGFFPSQEHEATREDERKFTSTCHFTYPASHDLHLAQ  
GDPNQVLQSAFPCLVDPKHQPAEMAQGYLLLPGPCPLHCHIVKVPILNRWGPLMPFYQ

>sp|Q6ZNM6|TEX43\_HUMAN Testis-expressed sequence 43 protein OS=Homo sapiens GN=TEX43 PE=2  
SV=1

MASGKDTCPTLPKLTNNCSDESLYKSANKYEEIHLPRFSLKQGMIPRRYVMPWKENMIFR  
NVNLKQAEVCGIHTGPLEDSLFLNHSERLCHGEDRKVVVFQKGPPEIKIADMPHLSPLSRY  
QSTVISHGFRRRLV

>sp|Q8IUE0|TF2LY\_HUMAN Homeobox protein TGIF2LY OS=Homo sapiens GN=TGIF2LY PE=1 SV=1

MEAAADGAETQSPVEKDSPAQTQSPAQDTSIMSRNNADTGRVLALPEHKKKRGKGNLPAE  
SVKILRDWMYKHRFKAYPSEEEKQMLSEKTNLSLLRISNWFINARRRILPDMLQRRNDP  
IIGHKTGKDAHATHLQSTEASVPAKSGPVVQTMKACPCGPCQARQCQERSNQIRSRPLA  
RSSPE

>sp|P01137|TGFB1\_HUMAN Transforming growth factor beta-1 OS=Homo sapiens GN=TGFB1 PE=1  
SV=2

MPPSGLRLLLLLLPLLWLLVLTGPRPAAGLSTCKTIDMELVKKRKRIEAIRGQILSKLRLA  
SPPSQGEVPPGPLPEAVLALYNSTRDRVAGESAEPEPEPEADYYAKEVTRVLMVETHNEI  
YDKFKQSTHSIYMFNTSELREAVPEPVLLSRAELRLLRLKLKVEQHVELYQKYSNNSWR  
YLSNRLAPSDSPEWLSFDVTGVVRQWL SRGGEIEGFRLSAHCSCDSDNTLQVDINGFT  
TGRRGDLATIHGMNRPFLLLMATPLERAQHLQSSRHRRALDTNYCFSSTEKNCCVRQLYI  
DFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNP GASAAPCCVPQA  
LEPLPIVYVYVGRKPKVEQLSNMIVRSCKS

>sp|H3BV60|TGR3L\_HUMAN Transforming growth factor-beta receptor type 3-like protein  
OS=Homo sapiens GN=TGFBR3L PE=2 SV=1

MGESAAATASLFQRRRRRGRGGRVTFPGGLKGSARFLSFGPPFPAPPAPPFPAAPGPWLRR  
PLFSLKLSDTEDVFPRRAGPLEVPADSRVQVQAALARPSRWGLALHRCVTPSSRPAPG

PALALLREGCPADTSVAFPPPPPPSPGAARPARFSFRLRPVFNASVQFLHCQLSRCRRLR  
GVRRAPAPLTPPPPPPSRCLPQDEACADTGSgsAEGLAADGPHLHTLTQP I V V T V P R P P  
PRPPKSVPGRAVRPEPPAPAPAALAPVVALVLA AFVLGAALAAGLGLVCAHSAPHAPG  
PPARASPSGPQPRRSQ

>sp|Q96RS0|TGS1\_HUMAN Trimethylguanosine synthase OS=Homo sapiens GN=TGS1 PE=1 SV=3

MCCEKWSRVAEMFLFIEEREDCKILCLCSRAFVEDRKLYNLGLKGYIIRDSGNNSGDQAT  
EEEEGGYSCGTAESHDSKIGLDESELDSEAELMRSMGLPLQFGRITAHKDFEVS MNTRN  
KVKIKKKKHQKKYLDEIVQESWRKEYEEDDILASDDPSSIEQYENTRTYELQSKKDTETE  
NPPVENTLSPKLEITEKWEKYWNEYGGGLLWQSWQEKHPGQALSSEPWNFPDTKEEWEQH  
YSQLYWYYLEQFYWEAQGWTFDASQSCD TDYTSKTEADDKNDEKCMKVDLVSPSSPI  
MVDNDSSTSDKDHSEILDGISNIKLNSEEVTSQQLDSC TSHDGHQQLSEVSSKRECPAS  
GQSEPRNGGTNEESNSSGNTNTDPPAEDSQKSSGANTS KDRPHASGTGDSEEDPPEHK  
PSKLKRSHELDIDENPASDFDDSGSLLGFKYSGGQKYGGIPNFSHRQVRYLEKNVKLKS  
YLDMRQIKMKNKHIFFTKESEKPFKKSKILSKVEKFLTWNKPMDEEASQESSHDNV  
HDASTSDSEEQDMSVKKGDDLLETNNPEPEKQSVSSAGELETENYERD SLLATVPDEQ  
DCVTQEV PDSRQAETAEVKKKKKKKKKNKVNGLPPEIAAVPELAKYWAQRYRLFSRFDD  
GIKLDREGWFSVTPEKIAEHIAGRVSQSFKCDVVVDAFCGVGGNTIQFALTGMRVIAIDI  
DPVKIALARNAEYVGIADKIEFICGDFLLASFLKADVFLSPPWGGPDYATAETFDIR  
TMMSPDGF EIFRLSKKITNNIVYFLPRNADIDQVASLAGPGGQVEIEQNFLNNKLTITA  
YFGDLIRRPASET

>sp|Q8TBB0|THAP6\_HUMAN THAP domain-containing protein 6 OS=Homo sapiens GN=THAP6 PE=1  
SV=1

MVKCCSAIGCASRCLPNSKLKGLTFHVFPTDENIKRKWVLAMKRLDVNAAGIWEPKKGDV  
LCSRHFKKTD FDRSAPNIKLKPGVIPSIFDSPYHLQGKREKLHCRKNFTLKTVPATNYNH  
HLVGASSCIEEFQSQFIFEHSYSVMDSPKKLKHKL DHVIGELEDTKESLRNVLDREKRFQ  
KSLRKTIRELKDECLISQETANRLDTFCWDCCQESIEQDYIS

>sp|Q5TEJ8|THMS2\_HUMAN Protein THEMIS2 OS=Homo sapiens GN=THEMIS2 PE=1 SV=1

MEPVPLQDFVRALDPASLRVLRVCSGVYFEGSIYEISGNECCLSTGD LIKVTQVRLQKV  
VCENPKTSQTMELAPNFQGYFTPLNTPQSYETLEELVSATTQSSKQLPTCFMSTHRIVTE  
GRVVTEDQLLMLEAVVMHLGIRSARCVLGM EGQQVILHPLSQKGPFWTWEPSAPRTLLQ  
VLQDPALKDLVLTCTPLPWHSLILRPQYEIQAIMHMRTIVKIPSTLEVDVEDVTASSRH  
VHFIKPLLLSEVLAWEGPFPLSMEILEVPEGRPIFLSPWVGS LQKGQRLCVYGLASPPWR  
VLASSKGRKVPRHFLVSGGYQGKLRRRPREFPTAYDLLGAFQPGRPLRVVATKDCEGERE  
ENPEFTSLAVGDRLEVLGPGQAHAQAQGS DVDVLVCQLSDQAGEDEEECKEEAESPERV  
LLPFHFPGSFVEEMSDSRYS LADLTAQFSLPCEVKVVAKDTSHPTDPLTSFLGLRLEEK  
ITEPFLVVS LDSEPGMCFEIPPRWLDLTVVKAKGQPDLP EGS LPIATVEELTDTFYRLR  
KLPACEIQAPPPRPKNQGLSKQRRHSSEGGVKSSQVLGLQQHARLPKPAKTLPEFIKD  
GSSTYSKIPAHKRGHRPAKPQRQDLDDDEHDYEEILEQFQKTI

>sp|P52888|THOP1\_HUMAN Thimet oligopeptidase OS=Homo sapiens GN=THOP1 PE=1 SV=2

MKPPAACAGMDAASPCSVVNDLRWDL SAQQIEERTRELIEQTKRVYDQVGTQEFEDVS  
YESTLKALADVEV TYTVQRNILD FFPQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQ  
RIVWLQEKVQKDSL RPEAARYLERLIKLGRRNGLHLPRETQENIKRIKKLSLLCIDFNK  
NLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVT LKYPHYFLLKKCHVPETRRKV  
EEAFNCRCKEENCAILKELVTLRAQKSRL LGFHTHADYVLEMNAKTSQTVATFLDELAQ

KLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYMNVQVEETRYCVDQNLKEYF  
PVQVVTHGLLGIIYQELLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREG  
KYGHAACFGLQPGCLRQDGSRQIAIAAMVANFTKPTADAPSLQHDDEVETYFHEFGHVMH  
QLCSQAEFAMFSGTHVERDFVEAPSQMLENWWWEQEPLLRMSRHYRTGSAVPRELLEKLI  
ESRQANTGLFNLQRQIVLAKVDQALHTQTDADPAEEYARLCQEILGVPATPGTNMPATFGH  
LAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRR  
FLGRDPKQDAFLLSKGLQVGGCEPEPQVC

>sp|Q16762|THTR\_HUMAN Thiosulfate sulfurtransferase OS=Homo sapiens GN=TST PE=1 SV=4

MVHQVLYRALVSTKWLAESIRTGKLGPLRVLDASWYSPGTREARKEYLERHVPASFFD  
IEECRDITASPYEMMLPSEAGFAEYVGRGLISNHTHVVDGEHLGSFYAPRVWMMFRVFG  
HRTVSVLNGGFRNWLKEGHPVTSEPSRPEPAVFKATLDRSLLKTYEQVLENLESKRFQLV  
DSRSQGRFLGTEPEPDAVGLDSGHIRGAVNMPFMDFLTEDGFEKGPEELRALFQTKKVDL  
SQPLIATCRKGVTAACHVALAAYLCGKPDVAVDGWSSEWFRRAPPESRVSQGKSEKA

>sp|Q9H2K8|TAOK3\_HUMAN Serine/threonine-protein kinase TA03 OS=Homo sapiens GN=TAOK3 PE=1 SV=2

MRKGVLDPEIADLFYKDDPEELFIGLHEIGHGSFGAVYFATNAHTSEVVAIKKMSYSGK  
QTHEKWQDILKEVKFLRQLKHPNTIEYKGCYLKEHTAWLVMEYCLGSASDLLLEVHKKPLQ  
EVEIAAITHGALHGLAYLHSHALHRDIKAGNILLTEPGQVKLADFGSASMASPANSFVG  
TPYWMAPEVILAMDEGQYDGKVDIWSLGITCIELAERKPPLFNMNAMSALYHIAQNDSP  
LQSNWTDSEFRFVDYCLQKIPQERPTSAELLRHDFVRRDRPLRVLIDLIQRTKDAVREL  
DNLQYRKMKKILFQETRNGPLNESQDEEDSEHGTSLNREMSLGSNHSIPMSVSTGSQ  
SSSVNSMQEVMDESSSELVMMHDESTINSSSVVHKKDHVFIRDEAGHGDPPEPRPTQ  
SVQSQUALHYRNRERFATIKSASLVTRQIHEHEQENELREMSGYKRMRRQHQQKLI  
ALENKLKAEMDEHRLKLQKEVETHANNSSIELEKLAKKQVAIEKEAKVAADEKKFQQQILAQ  
QKKDLTTFLESQKKQYKICKEIKEEMNEDHSTPKKEKQERTSKHKNLQHTQAEAAHL  
LTQQRLYYDKNCRFFKRKIMIKRHEVEQQNIREELNKKRTQKEMEAMLI RHDESTRELE  
YRQLHTLQKL RMDLIRLQHTELENQLEYNKRRERELHRKHVMELRQQPKNLKAMEMQIK  
KQFQDTCKVQTKYKALKNHQLEVTPKNEHKTILKTLKDEQTRKLAILAEQYEQSINEMM  
ASQALRLDEAQEAECQALRLQLQQEMELLNAYQSKIKMQTEAQHERELQKLEQRVSLRRA  
HLEQKIEEELAALQKERSERIKNLLERQEREIETFDMESLRMGFGNLVTLDFPKEDYR

>sp|B6A8C7|TARM1\_HUMAN T-cell-interacting, activating receptor on myeloid cells protein 1 OS=Homo sapiens GN=TARM1 PE=2 SV=1

MIPKLLSLLCFRLCVGGQDTRGDGSLPKPSLSAWPSSVVPANSNVTLRCWTPARGVSFVL  
RKGGIILESPKPLDSTEGAAEFHLNNLKVRNAGEYTCYYRKASPHILSQRSVDLLLLVT  
GHLSPFLRTYQRGTVTAGGRVTLQCQKRDQLFVPIMFALLKAGTPSPIQLQSPAGKEID  
FSLVDVTAGDAGNYSCMYQTKSPFWASEPSDQLEILVTVPPTSSNYSLGNFVRLGLA  
AVIVVIMGAFLVEAWYSRNVSPGESEAFKPE

>sp|Q9UK61|TASOR\_HUMAN Protein TASOR OS=Homo sapiens GN=FAM208A PE=1 SV=3

MATAVETEACQPTDASWESGGGGDEMKGALPELESSQNGGGGLNIAEPSGGAGREEN  
AGAEAAQSLSHEQPQDSSEAGAAALPRGPEEPERPVRRSFQIPRKSREKKALFQPLTPGS  
REFEDVVNHLHSSYLEPTSVTNFNYRRACL VHNELLEKEFTEKRRELKFDGRLDKELSES  
YAFLMVDYRQVQTICEKGLHVQGSKITILGSPSMGVYLSRYADLLQANPLDTGAMGDVVI  
FKIMKGKIKSIYDPMGVKSLESMLNKSALDPTPKHECHVSKNANRITSLAYRAYELTQY  
YFYEYGFDELRRRPRHVCPYAVVSFTYKDDIQTPKFVPSSRSNSFNDRNIDKYNITLWK

GQLLNKGKLLCYISLRSATRAFLPIKLPEKLDVETVMSIDHLKQKIPPALFYKETYLGPN  
EVLKNGMYCSLYEVVEKTRIGSNMESLLQKLDREKLVLVKPLGDRGYLFLLSPYQMVPPY  
EYQTAKSRVLHALFLFQEPSIVTSQKGSTNAAPQERHESMPDVLKIAQFLQFSLIQCRK  
EFKNISAINFHSVVEKYVSEFFKRFGSGKREFIMFPYDSRLDDKKFLYSAPRNKSHIDT  
CLHAYIFRPEVYQLPICKLKELFEENRKLQQFSPLSDYEGQEEEMNGTKMKFGKRNNSRG  
EAIISGKQRSSSHSLDYDKDRVKELINLIQCRKKS VGGSDTEDMRSKTVLKRKLEDLPEN  
MRKLAKTSNLSENCHLYEESPQPIGSLGHDADLRRQQQDTCNSGIADIHRLFNWLSETLA  
NARHSDASLTDTVNKALGLSTDDAYEELRQKHEYELNSTPDKDYEQPTCAKVENAQFKG  
TQSLLEVDATSKYSVAISTSEVGTDHKLHLKEDPNLISVNNFEDCSLCPSPVPIEHGFRR  
QQSKSNVEETEIHVKLIPITGGNARSPEDQLGKHGEKQTPGMKSPEEQVLCVPPQEAFP  
NDPRVINRQRSSDYQFPSSPFTDTLKGTTEDDVLTGQVEEQCVPAEAEPVAVSETTERT  
VLGEYNLFSRKIEEILKQKNVSYVSTVSTPIFSTQEKMKRLSEFIYSKTSKAGVQEFVDG  
LHEKLNTHIIKASAKGGNLPPVSPNDSGAKIASNPLERHVIPVSSDFNNKHLEPLCSD  
PLKDTNSDEQHSTALTEVEMNQPHATELMTSDHIVPGDMAREPVEETTKSPSDVNIS  
AQPALSNFISQLEPEVFNSLVKIMKDVQKNTVKFYIHEEEESVLCKEIKEYLKLGNTTEC  
HPEQFLERRSKLDKLLIIIQNEDIAGFIHKIPGLVTLKKLPCVSFAGVDSLDDVKNHTYN  
ELFVSGGFIVSDESILNPEVTVTENLKNFLTFLLEELSTPEGKWQWKVHCKFQKKLKLGR  
LNAKALSLLTLLNVYQKKHLVEILSYHNCDSQTRNAPELDCLIRLQAQNIQQRHIVFLTE  
KNIKMLSSYTDNGIVVATAEDFMQNFKNLVGYHNSITEENLPQLGANENLESQSALLEND  
EKDEEDMSLDSGDEISHIEVCSNFHSEIWEKETKSGRGTQKKNTQIELQSSPDVQNSLL  
EDKTYLDSEERTSIDIVCEGENSNSTEQDSYSNFQVYHSQLNMSHQFSHFNVLTHQTFL  
GTPYALSSSSQSENENYFLSAYTESLDRDKSPPLSWGKS DSSRPYSQEK

>sp|Q6P1N9|TATD1\_HUMAN Putative deoxyribonuclease TATDN1 OS=Homo sapiens GN=TATDN1 PE=1  
SV=2

MSRFKFIDIGINLTDPMFRGIYRGVQKHQDDLQDVIGRAVEIGVKKFMITGGNLQDSKDA  
LHLAQTNGMFFSTVGCHPTRCGEFKNNPDLYLKELLNLAENNKGVVAIGECGLDFDRL  
QFCPKDTQLKYFEKQFELSEQTKLPMFLHCRNSHAEFLDIMKRNRDRCVGGVVHSFDGTK  
EAAAALIDL DLYIGFNGCSLKTEANLEVLKSIPEKLM IETDAPWCGVKSTHAGSKYIRT  
AFPTKKKWESGHCLKDRNEPCHIIQILEIMSAVRDEDPLELANTLYNNTIKVFFPGI  
>sp|Q16635|TAZ\_HUMAN Tafazzin OS=Homo sapiens GN=TAZ PE=1 SV=1  
MPLHVWKPPAVPPLTWTLASSVVMGLVGTYS CFWTKYMNHLTVHNREVLYELIEKRGPA  
TPLITVSNHQSCMDPHLWGILKLRIWNLKLMRWTPAAADICFTKELHSHFFSLGKCVP  
VCRGAEFFQAENEGKGVLD TGRHMPGAGKRREKGDGVYQKGMDFILEKLNHGDWVHIFPE  
GKVNMSSEFLRFKWIGRLIAECHLNPIILPLWHVGMNDVLPNSPPYFPRFGQKITVLIG  
KPFSA LPVLERLRAENKSAVEMRKALTDFIQEEFQHLKTQAEQLHNHLQPGR

>sp|Q71U36|TBA1A\_HUMAN Tubulin alpha-1A chain OS=Homo sapiens GN=TUBA1A PE=1 SV=1  
MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGK  
HVPRAVFDLEPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLD  
RIRKLADQCTGLQGFLVFHSFGGGTSGGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTA  
VVEPYNSILTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLNLIGQIVSSITA  
SLRFDGALNVDLTEFQTNLVPYPRIHFLATYAPVISA EKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPP  
TVVPGDLAKVQRAVCMLSNTTATAEAWARLDHKFDL MYAKRAFVHWYVGEGMEEGEFSE  
AREDMAALEKDYE EVGVDSVEGEGEEEGEEY



>sp|Q969Z0|TBG4\_HUMAN Protein TBG4 OS=Homo sapiens GN=TBG4 PE=1 SV=1

MAAHLVKRCTCLLREARQAPAMAPVGRRLAWVAHKTLTSSATSPISHLPGSLMEPVEK  
ERASTPYIEKQVDHLIKKATRPEELLELLGGSHDLSNQAAMVLIRLSHLLSEKPEDKGL  
LIQDAHFHQLLCLLSQIASVWHGTL SKLLGSLYALGIPKASKELQSVEQEVRRMRKLK  
YKHLAFLAESCATLSQEQQSQELLAELLTHLERRWTEIEDSHTLVTVMMKVGHLEPLMN  
RLEDKCLELVEHFGPNELRKVLVMLAAQSRRSVPLLR AISYHLVQKPFSLTKDVLDDVAY  
AYGKLSFHQTQVSQRLATDLLSLMPSLTSGEVAHCAKSFALLKWLSPLEAFAQHVLNR  
AQDITLPHLCSVLLAFARLNFHPDQEDQFFSLVHEKLGSELPGLEPALQVDLVWALCVLQ  
QAREAELQAVLHPEFHIQFLGGKSQKDQNTFQKLLHINATALLEYPEYSGPLLPASAVAP  
GPSALDRKVTPLQKELQETLKGLGSADKGSLEVATQYGWVLD AEVLDDSDGEFLPVRDF  
VAPHLAQPTGSQSPPPGSKRLAFLRWEFPNFNSRSKDLLGRFVLARRHIVAAGFLIVDVP  
FYEWLELKSEWQKGAYLKDKMRKAVAEELAK

>sp|Q13207|TBX2\_HUMAN T-box transcription factor TBX2 OS=Homo sapiens GN=TBX2 PE=1 SV=3

MREPALAASAMAYHPFHAPRPADFPMSAFLAAQPSFFPALALPPGALAKPLPDPGLAGA  
AAAAAAAAAAAAEAGLHVSA LGPHPPAAHLRSLKSLEPEDEVEDDPKVTLEAKELWDQFHK  
LGTEMVITKSGRRMFPPFKVRVSGLDKKAKYILLMDIVAADDCRYKFHNSRWMVAGKADP  
EMPKRMYIHPDSPATGEQWMAKPVAFHKLKL TNNISDKHGFTILNSMHKYQPRFHI VRAN  
DILKLPYSTFRTYVPETDFIAVTAYQNDKITQLKIDNNPFAKGFRDTGNRREKRKQLT  
LPSRLRYEEHCKPERDGAESDASSCDPPPAREPPTSPGAAPSPLRLHRARAEKSCAADS  
DPEPERLSEERAGAPLGRSPAPDSASPTRLTEPERARERRSPERGKEPAESGGDGPFGFR  
SLEKERAEEARRKDEGRKEAAEGKEQGLAPLVVQTD SASPLGAGHLPGLAFSSHLHGQQFF  
GPLGAGQPLFLHPGQFTMGPGAFSAMGMGHLLASVAGGGNGGGGPGTAAGLDAGGLGPA  
ASAASTAAPFPFHLSQHMLASQGI PMPTFGGLFPYPYTYMAAAAAAASALPATSA AAAAA  
AAAGSLSRSPFLGSARPRLRFSPYQIPVTIPPSTSLTTGLASEGSKAAGGNSREPSPLP  
ELALRKVGAPSRGALSPSGSAKEAANELQSIQRLVSGLESQRALSPGRES PK

>sp|Q99593|TBX5\_HUMAN T-box transcription factor TBX5 OS=Homo sapiens GN=TBX5 PE=1 SV=2

MADADEGFGLAHTPLEPDAKDLPCDSKPESALGAPSKSPSSPQAFTQQGMEGIKVFLHE  
RELWLKFHEVGTEMIITKAGRRMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNK  
WSVTGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLKL TNNHLDPFGHII LNSMHKYQ  
PRLHIVKADENNGFGSKNTAFCTHVFPETAFAVTSYQNHKITQLKIENNPFAKGFRGSD  
DMELHRMSRMQSKYPPVPRSTVRQKVASNHSPFSSESRLSTSSNLGSQYQCENGVS GP  
SQDLLPPPNPYPLPQEHSQIYHCTKRKEECSTTDHPYKKPYMETSPSEEDSFYRSSYPQ  
QQGLGASYRTESAQRQACMYASSAPPSEPVPSLEDISCNTWPSMPSYSSCTVTTVQPMDR  
LPYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHQTSVAHQPVVRQCGPQTGLQSPG  
TLQPPEFLYSHGVPRTLSPHQYHSVHGVGMVPEWSDNS

>sp|Q5JR98|TC1D4\_HUMAN Tctex1 domain-containing protein 4 OS=Homo sapiens GN=TC1D4 PE=1 SV=1

MASRPLPPGRQEEENAKDSGRKPSVPRPGCLPSIDEARPAGGPAPASRRGSMGLAAS  
FSRRNSLVGPGAGPGGQRPSLGPVPPLGSRVSFSGPLAPARWVAPSYRTEPVPGERWEA  
ARAQRALEAALAAGLHDACYSSDEAARLVRELCEQVHVRLRELSPPRYKLVCSVVLGPRA  
GQGVHVVSRLWDVARDGLASVSYTNTSLFAVATVHGLYCE

>sp|A6NFQ2|TCAF2\_HUMAN TRPM8 channel-associated factor 2 OS=Homo sapiens GN=TCAF2 PE=1 SV=2

MATIAAAAFEALMDGVTCWDVPRGPIPSELLLIGEAAPVMVNDKGQVLIAASSYGRGRL

VVVSHEGYLSHTGLAPFLNNAVSWLCPCPGAPVGVHPSLAPLVNILDAGLEAQVKPEPG  
EPLGVYCINAYNDTLTATLIQFVKHGGGLLIGGQAWYWASQHGPKVLSRFPGNKVTSVA  
GVYFTDTYGDRDRFKVSKVKPIPLHVRYGEDVRQDQQQLLEGISELDIRTGGVPSQLLV  
HGALAFPLGLDASLNCFLAAAHYGRGVVLAHECLLCAPKMGPFLLNAVRWLARGQTGK  
VGVNTNLKDLCPLLSEHGLQCSLEPHLNSDLCVYCKAYSDEAKQLQEFVAEGGGLLIG  
GQAWWWASQNPGHCLAGFPNGIILNCFGLSILPQTLKAGCFPVPTPEMRSYHFRKALSQ  
FQAILNHENGLEKSCLAKLRVDGA AFLQIPAEVGPAYISLHRLLRKMLRGSGLPVVSRE  
NPVASDSYEA AVLSLATGLAHSGTDCSQAQLGTWTCSSSLYPSKHPITVEINGINPGN  
NDCVWSTGLYLLEGQNAEVSLEAAAASAGLRVQIGCHTDDLTKARKLSRAPVVTHQCWMD  
RTERSVSCLWGGLLYVIVPKGSQLGPVPVTIRGAVPAPYYKLGKTSLEEWKRQMQENLAP  
WGELATDNIILTVPTNLQALKDPEPVLRLWDEMMQAVARLAAEPFPFRPERIVADVQI  
SAGWMHSGYPI MCHLESVKEI INEMDMRSRGVWGPIHELGHNQQRHGWFEPPHTTEATCN  
LWSVYVHETVLGIPRAQAHEALSPPERERRIKAHLGKGAPLCDWNVWTALETYLQLQEAF  
GWEPFTQLFAEYQTLSHLPKDNTEGRMNLWVKKFSEKVKKNLVPFFEAWGWPIQKEVADSL  
ASLPEWQENPMQVYLARK

>sp|Q8N3R3|TCAIM\_HUMAN T-cell activation inhibitor, mitochondrial OS=Homo sapiens  
GN=TCAIM PE=2 SV=2

MFCHLRPMRRLCLEKIFPHWPFPSRALSGAEAVNALRPFYFAVHPDFFGQHPVEREINEN  
SLKRLSVYLENLQKPGFKSLKPTQLTFYVRETDQSSSDGQEPFSTSGFRAVKFTLHTRDL  
LSTVLYILNSCSLSVEHIQSLNTNMHTQPLKEAKRMPDRPIKWDKSYYSFTGFKDPDEDL  
EQVSRVETTLTSWLDNNGKSAVKKLKNSLPLRKELDRLKDELSQLQLSDIRWQRSWGIA  
HRCSQLHSLSRLAQQNLETLLKAKGCTIIFTDRSGMSAVGHVMLGTMVHHHWTKLFERL  
PSYFDLQRRMLIEDQISYLLGGIQVYVYIEELQPVLTLEEYYSLLDVFNRLKSRILFH  
PRSLRGLQMILNSDRYAPSLHELGHFNIPITLCDPANLQWFILTKAQQARENMKRKEELKV  
IENELIQASTKKFSLEKLYKEPSISSIQMVDCCKRLLEQSLPYLHGMHLCTISHFYVMQD  
GDLCPWNWKNGEAIK

>sp|Q9H3H9|TCAL2\_HUMAN Transcription elongation factor A protein-like 2 OS=Homo sapiens  
GN=TCEAL2 PE=2 SV=1

MEKLFNENEGMPSNQGKIDNEEQPPHEGKPEVACILEDKKLENEGNTENTGKRVEEPLKD  
KEKPESAGKAKGEGKSERKGKSEMQGGSKTEGKPERGGRAEGEGEPDSEREPESEGEPESES  
ETRAAGKRPAEDIPRKAKRKTNKGLAQYLKQYKEA IHD MNFSNEDMIREFDNMARVEDK  
RRKSKQKLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

>sp|Q96EI5|TCAL4\_HUMAN Transcription elongation factor A protein-like 4 OS=Homo sapiens  
GN=TCEAL4 PE=1 SV=2

MEKLYSENEGMA SNQGMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLK  
DKGKPESEGEAKEGKSEREGESEMEGGSEREGKPEIEGKPESEGEPGSETRAAGKRPAED  
DVPRKAKRKTNKGLAHYLYKEYKEA IHD MNFSNEDMIREFDNMAKVQDEKRKSKQKLGAFL  
WMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

>sp|Q8WWU5|TCP11\_HUMAN T-complex protein 11 homolog OS=Homo sapiens GN=TCP11 PE=2 SV=1

MPDVKESVPPKYPGDSEGRSCKPETSGPPQEDKSGSEDPFPLSVTGLTETVNEVSKLSN  
KIGMNCDYMEEKVLPPSSLEGKVKETVHNAFWDLKEQLSATPPDFSCALELLKEIKEI  
LLSLLLPRQNRLRIETEEALDMDLLKQEAHGA LKVLVLSKYVLNMMALLCAPVRDEAVQ  
KLENITDPVWLLRGIFQVLGRMKMDMVNYTIQSLQPHLQEHSIQYERAKFQELLNKQPSL  
LNHTTKWLTAAGDLTMSPTCPDTS DSSSVAGPSPNEAANNPEPLSPTMVLCQGFLNLL

LWDLNEEFPETLLMDRTRLQELKSQLHQLTVMASVLLVASSFSGSVLFGSPQFVDKLKR  
ITKSLEDFHSRPEEAILTVSEQVSQEIHQSLKNMGLVALSSDNTASLMGQLQNIAKKEN  
CVCSVIDQRIHLFLKCCLVLGVQRSLLDLPGGTLTIEAELAEKGKFVNLTHNQVFQGP  
YYTEILKTLISPAQALETKVESV

>sp|P50990|TCPQ\_HUMAN T-complex protein 1 subunit theta OS=Homo sapiens GN=CCT8 PE=1 SV=4

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPNGMNKMVINHL  
EKLFTVNDAAITLRELEVQHPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEEELLR  
IGLSVSEVIEGYEIACRKAHEILPNLVCCSAKNLRDIDEVSSLLRTSIMSKQYGNEVFLA  
KLIAQACVSIFPDSGHFVNDNIRVCKILGSGISSSSVLHGMVFKKETEGDVTSVKDAKIA  
VYSCPFDMITETKGTVLIKTAEELMNFSGKEENLMDAQVKAIADTGANVVVTGGKVADM  
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDVYLSEVGDTQV  
VVFKEKEDGAISTIVLRGSTDNLMDIERAVDDGVNTFKVLTRDKRLVPGGGATEIELA  
KQITSYGETCPGLEQYAIKKFAEAFEAIPLAENSGVKANEVISKLYAVHQEGNKNVGL  
DIEAEVPAVKDMLEAGILD TYLGKYWAIKLATNAAVTVLRVDQIIMAKPAGGPKPPSGKK  
DWDDDQND

>sp|Q7Z6L1|TCPRI\_HUMAN Tectonin beta-propeller repeat-containing protein 1 OS=Homo sapiens GN=TECPRI PE=1 SV=1

MPNSVLWAVDLFGRVYTLSTAGQYWEMCKDSQLEFKRVSATTQCCWGIACDNQVYVYVCA  
SDVPIRRREEAYENQRWNPMGGFCEKLLSDRWGWSVSGLQHRPLDRVALPSPHWEWES  
DWYVDENFGGEPTKEGGWTYAIDFPATYTKDKKWNQVRRRKWIRYRRYKSRDIWAKIPS  
KDDPKELPDPFNDLSVGWEITEEPVGRLSVWAVSLQGVVYREDVSHSNPEGSSWSLLD  
TPGEVVQISCGPHDLLWATLWEGQALVREGINRSNPKGSSWSIVEPPGSENGVMHISVGV  
SVVWAVTKDWKVWFRRGVNSHNPCGTSWIEMVGEMTMVNVGMNDQVWGIGCEDRAVYFRQ  
GVTPSELSGKTWKAIIAARECDRSHSGSSSSLLSAGCFFGDEVRGSGESAPSDTDASSEV  
ERPGPGQILPAELDDSKNATGNSASGLGAGRTAEDTVEDACPAEGSREARPNTHPGPAP  
TPAELPWTNIDLKEAKKVPSSAAGFPETTSLSLGLPLGLEEYPGVDDHPLWAWVSGG  
GCVVEACAMPWFVTVQAGLSSSVHMLSLSITPAQTAARWKQIFQQLTERTKRELENFRHY  
EQAVEQSVVWKTGALQWCDWKPHKWDVRLALEQFTGHDGVRDSILFIYYVVHEEKYI  
HIFLNEVVALVPVLNETKHSFALYTPERTRQRWPVRLAAATEQDMNDWLALLSLSCCESR  
KVQGRPSPQAIWSITCKGDI FVSEPSPDLEAHEHPLPCDQMFWRQMGHLMVEANSRGV  
VWGIGYDHTAWVYTGYYGGGCFQGLASSTSNITQSDVKCVHIYENQRWNPVTGYTSRGL  
PTDRYMWDASGLQECTKAGTKPPSLQWAWVSDWVDFSVPGGTDQEGWQYASDFPASYH  
GSKTMKDFVRRRCWARKCKLVTSGPWLEVPPIALRDVSIIPESPGAEGSGHSIALWAVSD  
KGDVLCRLGVSELNPAGSSWLHVGTDPFASISIGACYQVWAVARDGSAFYRGSVYPSQP  
AGDCWYHIPSPPRQLKQVSAGQTSVYALDENGNLWYRQGITPSYPQGSSWEHVSNNVCR  
VSVGPLDQVWVIANKVQGSLSRGTVCHRTGVQPHEPKGHGWDYIGGGWDHISVRANA  
TRAPRSSSQEQEPSAPPEAHGPVCC

>sp|P13693|TCTP\_HUMAN Translationally-controlled tumor protein OS=Homo sapiens GN=TPT1 PE=1 SV=1

MI IYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTTEGNIDSLIGGNASAEGPEGE  
GTESTVITGVDIVMNHHLQETSFTKEAYKKYIKDYMKSIKGLLEEQRPERVKPFMTGAAE  
QIKHILANFKNYQFFIGENMNPDMVALLDYREDGVTPYMIFFKDGLEMEKC

>sp|P13385|TDGF1\_HUMAN Teratocarcinoma-derived growth factor 1 OS=Homo sapiens GN=TDGF1 PE=1 SV=1

MDCRKMARFSYSVIWIMAIISKVFELGLVAGLGHQEFARPSRGYLAFRDDSIWPQEEP AIR  
PRSSQRVPPMGIQHSKELNRTCCLNGGTCMLGSFCACPPSFYGRNCEHDVRKENCGSVPH  
DTWLPPKCSLCKCWHGQLRCFPQAFLPGCDGLVMDHLVASRTPELPPSARTTTFMLVGI  
CLSIQSY

>sp|Q8IZJ6|TDH\_HUMAN Inactive L-threonine 3-dehydrogenase, mitochondrial OS=Homo sapiens  
GN=TDH PE=2 SV=1

MLFIRMLRRAGQSPACGCWTPVLPVRFLGISPRQIPADANFHSASFSDTDHPRVLITGAL  
GQLGVGLANLLRKRFGKDSVILSDIRKPPDHVFHSGPFIYSDILDYKNLREIVVNNRITW  
LFHYSALLSAFGEANVSLARAVNITGLHNILDVAAEHNQLFVPSTIGAFGPTSPRNPTP  
DLCIQRPRTIYGVSKVHAELMGETMQSRFSMMPQSMANSSATWKPARDCP

>sp|Q5VZ19|TDR10\_HUMAN Tudor domain-containing protein 10 OS=Homo sapiens GN=TDRD10 PE=2  
SV=3

MSWNISHPQLSDKLFGKNGVLEEQKSPGFKKRETEVYVGNPLDISKEEILYLLKDFNPL  
DVHKKIQNGCKCAFVDLGSQKVTLAIQELNGKLFHKKRLFVNTSKRPPKRTPDMIQQPR  
APLVLEKASGEGFGKTAATIIQLAPKAPVDLCETEKLRAAFFAVPLEMRGSFLVLLRECF  
RDLWLALIHVRGEAGLLVTSIVPKTPFFWAMHVTEALHQNMQALFSTLAQAEQQPYL  
EGSTVMRGTRCLAEYHLGDYGHAWNRCWVLDVRVDTWAVVMFIDFGQLATIPVQSLRSLDS  
DDFWTIPPLTQPFMLEKDILSSYEVVHRLKKGITGALNSAVTAPASNLAVVPPLLPLGC  
LQAAAA

>sp|Q9H7E2|TDRD3\_HUMAN Tudor domain-containing protein 3 OS=Homo sapiens GN=TDRD3 PE=1  
SV=1

MLRLQMTDGHISCTAVEFSYMSKISLNTPPGTVKVLSGIVDIKNGFLLLNSNTTVLGGE  
VEHLIEKWELQRSLSKHNRSNIGTEGGPPPFVFPFGQKCVSHVQVDSRELDRRKTLQVTMP  
VKPTNDNDEFKQRTAAIAEVAKSKETKTFGGGGGGARSNLNMAAGNRNREVLQKEKST  
KSEKHEGVYRELVEKALKHITEMGFSKEASRQALMDNGNLEAALNVLLTSNKQKPVM  
GPPLRGRGKGRGRIRSEDEEDLGARPSAPSTLFDLFLESKMGTLNVEEPKSQPPQLHQGQ  
YRSSNTEQNGVKDNNHLRHPPRNDTRQPRNEKPPRFQRDSQNSKSVLEGSGLPRNRGSR  
PSTSSVSEVWAEDRIKDRPYSTRYDRTKDTSYPLGSQHSQGAFKKRDNMSQSRSGKGPSF  
AEAKENPLPQGSVDYNNQKRGKRESQTSIPDYFYDRKSQTINNEAFSGIKIEKHFVNVD  
YQNPVRSNSFIGVPNGEVEMPLKGRRI GPIKAGPVTAVPCDDKIFYN SGPKRRSGPIK  
EKILESSIPMEYAKMWKPGDECFALYWEDNKFYRAEVEALHSSGMTAVVKFIDYGN YEEV  
LLSNIKPIQTEAWEEEGTYDQTLEFRRGDGQPRRSTRPTQQFYQPPRARN

>sp|Q9BXT4|TDRD1\_HUMAN Tudor domain-containing protein 1 OS=Homo sapiens GN=TDRD1 PE=1  
SV=2

MSVKSPPFNVMsrnnLEAPPCKMTEPFNFeknenKLPPHESLRSPGTLPNHPNFRLKSEN  
GNKKNFLLCEQTKQYLASQEDNSVSSNPNGINGEVVGSKGDRKKLPAGNSVSPPSAESN  
SPPKEVNIKPGNNVRPAKSKKLNLVENSLSISNPGLFTSLGPPLRSTTCHRCGLFGSLR  
CSQCKQTYYCSTACQRRDWSAHSIVCRPVQPNFHKLENKSSIETKDVEVNKSDCPLGVT  
KEIAIWAERIMFSDLRSLQLKKTMEIKGTVTEFKHPGDFYVQLYSSEVLEYMNQLSASLK  
ETyanVHEKDYIPVKGevciAKYTVDTWNRAIIQNVDVQKKAHVLYIDYGNEEIIPLN  
RIYHLNRNIDLFPpCAIKCFVANVIPAEGNWSSDCIKATKPLLMEQYCSIKIVDILEEEV  
VTFAVEVELPNSGKLLDHVL IEMGYGLKPSGQDSKKENADQSDPEDVGKMTTENNIVVDK  
SDLIPKVLTLNVGDEFcgvVAHIQTPEDFFCQQLQSGRKLAEQASLSKYCDQLPPRSDF  
YPAIGDICAQFSEDDQWYRASVLAyaseesVLVGyVDYGNFEILSLMRLCPIIPKLLEL

PMQAIKCVLAGVKPSLGIWTPEAICLMKKLVQNKIITVKVVDKLENSSLVELIDKSETPH  
VSVSKVLLDAGFAVGEQSMVTDKPSDVKETSVPPLGVEGKVNPLEWTWVELGVDQTVDVVV  
CVIYSPGEFYCHVLKEDALKKLNLDNKS LAEHCQQKLPNGFKAIEIGQPCCAFFAGDGSWY  
RALVKEILPNGHVKVHFVDYGNIEEVTADELRMISSTFLNLPFQGIRCQLADIQSRNKH  
SEEAITRFQMCVAGIKLQARVVEVTENGIGVELTDLSTCYPRIISDVLIDEHLVLKSASP  
HKDLPNDRLVNKHELQVHVQGLQATSSAEQWKTIELPVDKTIQANVLEIISPRLFYALPK  
GMPENQEKL CMLTAELEYCNAPKSRPPYRPRIGDACCAYTSDDFWYRAVVLGTSDDTV  
EVLYADYGNITLPLCRVQPITSSHLALPFQIIRCSLEGLMELNGSSQLIIMLLKNFML  
NQNVMLSVKGITKNVHTVSVEKCSNGTVDVADKLVTFGLAKNITPQRQSALNTEKMYRM  
NCCCTELQKQVEKHEHILLFLLNNSTNQNKFIEMKKLLKS

>sp|Q9Y2W6|TDRKH\_HUMAN Tudor and KH domain-containing protein OS=Homo sapiens GN=TDRKH  
PE=1 SV=2

MSTERTSWTSLSTIQKIALGLGIPASATVAYILYRRYRESREERLTFVGEDDIEIEMRVP  
QEAVKLIIGRQGANIKQLRKQTGARIDVDTEDVGDERVLLISGFPVQVCKAKAAIHQILT  
ENTPVSEQLSVPQRSVGRIIGRGGETIRSICKASGAKITCDKESEGTLLLSRLIKISGTQ  
KEVAAAKH LILEKVSEDEELRKRIAHSAETRVPRKQPISVRREDMTEPGGAGEPALWKNT  
SSSMEPTAPLVTPPPKGGDMAVVVSKEGSWEKPSDDSFQKSEAQAIPMPMFEIPSPDF  
SFHADEYLEVYVSASEHPNHFWIQIVGSRSLQLDKLVNEMTQHYENSVPEDLTVHVGDIV  
AAPLPTNGSWYRARVLGTLENGNLDLYFVDFGDNDCPLKDLRALRSDFLSLPFQAIECS  
LARIAPSGDQWEEELDEFDRLT HCADWKPLVAKISSYVQTGISTWPKIYLYDTSNGKKL  
DIGLELVHKGYAIELPEDIEENRAVPDMLKDMATETDASLSTLLTETKKSSGEITHLSC  
LSLSEAASMSGDDNLEDDYLL

>sp|P04053|TDT\_HUMAN DNA nucleotidylexotransferase OS=Homo sapiens GN=DNTT PE=1 SV=3

MDPPRASHLSPRKKRPRQTGALMASSPDIKFQDLVVFIEKKMGTTTTRAFMLARRKG  
FRVENELSDSVTHIVAENNSGSDVLEWLQAQKVQVSSQPELLDVSWLIECIRAGKPVEMT  
GKHQLVVRDYSSTNP GPPKTPPIAVQKISQYACQRRITLNNCNQIFTDAFDILAENCE  
FRENEDSCVTFMRAASVLKSLPFTIISMKDTEGIPCLGSKVKGIIEEIIEDGESSEVKAV  
LNDERYQSFKLFTSVFGVLKTSEKWFMRMGFRTL SKVRSKSLKFTRMQKAGFLYYEDLV  
SCVTRAEAEAVSVLKEAVWAFLPDAFVTMTGGFRRGKKMGHDVDFLITSPGSTEDDEEQL  
LQKVMNLWEKKGLLLYYDLVESTFEKLR LPSRKVDALDHFQKCF LIFKLPRQRVDSQSS  
WQEGKTWKAIRVDVLCPYERRAFALLGWTGSRQFERDLRRYATHERKMILDNHALYDKT  
KRIFLKAEEEEIFAHLGLDYIEPWERN A

>sp|Q9NZ01|TECR\_HUMAN Very-long-chain enoyl-CoA reductase OS=Homo sapiens GN=TECR PE=1  
SV=1

MKHYEVEILDAKTREKLCFLDKVEPHATIAEIKNLFTKTHPQWYPARQSLRLDPKGKSLK  
DEDVLQKLPVGTTATLYFRDLGAQISWVTVFLTEYAGPLFIYLLFYFRVPFIYGHKYDFT  
SSRHTVVHLACICHSFHYIKRLETLFVHRFSHGTMPLRNIFKNCTYYWGFAAWMAYYIN  
HPLYTPPTYGAQQVKLALAI FVICQLGNFS IHMALRDLRPAGSKTRKIPYPTKNPFTWLF  
LLVSCPNTYEVGSWIGFAIMTQCLPVALFSLVGFTQMTIWAKGKHRSYLKEFRDYPPLR  
MPIIPFLL

>sp|Q92759|TF2H4\_HUMAN General transcription factor IIH subunit 4 OS=Homo sapiens  
GN=TF2H4 PE=1 SV=1

MESTPSRGLNRVHLQCRNLQEFLGGLSPGVLDRLYGHYPATCLAVFRELP SLAKNWVMRML  
FLEQPLPQAAVALWVKKEFSKAQEESTGLLSGLRIWHTQLLPGLQLGLILNPIFRQNLRI

ALLGGGKAWSDDTSQLGPDKHARDVPSLDKYAEERWEVVLHFMVGSPSAAVSQDLAQLLS  
QAGLMKSTEPGEPPCITSAGFQFLLLDTPAQLWYFMLQYLQTAQSRGMDLVEILSFLFQL  
SFSTLGKDYSVEGMSDSSLNFLQHLREFGLVFQRKRKSRYYPTRLAINLSSGVSGAGGT  
VHQPGFIVVETNYRLYAYTESELQIALIALFSEMLYRFPNMVVAQVTRESVQQAIASGIT  
AQQIIHFLRTRAHPVMLKQTPVLPPTITDQIRLWELERDRLRFTEGVLYNQFLSQVDFEL  
LLAHARELGVLVFENSAKRLMVVTPAGHSDVKRFWKRQKHSS

>sp|Q8WUA4|TF3C2\_HUMAN General transcription factor 3C polypeptide 2 OS=Homo sapiens  
GN=GTF3C2 PE=1 SV=2

MDTCGVGYVALGEAGPVGNMTVVDSPGQEVNLQLDVKTSSEMTSAEASVEMSLPTPLPGF  
EDSPDQRRLPPEQESLSRLEQPDLSSEMSKVSQPRASKPGRKRGGTRKGPKRPPQPNPP  
SAPLVPGLLDQSNPLSTPMPKKRGRKSKAELLLKLKSKDLDRPESQSPKRPPEDFETPSG  
ERPRRRAAQVALLYLQELAEELSTALPAPVSCPEGPKVSSPTKPKKIRQPAACPGGEEVD  
GAPRDEDFFLQVEAEDVEESEGPSESSSEPEPVPRSTPRGSTSGKQKPHCRGMAPNGLP  
NHIMAPVWKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLPQEEKSPLFSV  
QREGLPEDGTLYRINRFSSITAHPERWDVSFFTGGPLWALDWCPVPEGAGASQYVALFSS  
PDMNETHPLSQLHSGPGLLQLWGLGTLQQESCPCGNRAHFVYGIACDNGCIWDLKFCPSGA  
WELPGTPRKAPLLPRLGLLALACSDGKVLLFSLPHPEALLAQPPDAVKPAIYKVQCVAT  
LQVGSMAQADPSECGQCLSLAWMPTRPHQHLAAGYYNGMVVFNLPNSPLQRIKRLSDGS  
LKLYPFQCFLAHDQAVRTLQWCKANSHFLVSAGSDRKIKFWDLRRPYEPINSIKRFLSTE  
LAWLLPYNGVTVAQDNCYASYGLCGIHYIDAGYLGFKAYFTAPRKGTVWSLSGSDWLGTI  
AAGDISGELIAAILPDMALNPINVKRPVERRFPIYKADLIPYQDSPEGPDHSSASSGVPN  
PPKARTYTETVNHYYLLFQDIDLGSFHDLLRREPMLRMQEGEGHSQCLDRLQLEAIHKV  
RFSPNLD SYGWLVSQGLVRIHFVRGLASPLGHRMQLESRAHFNAMFQPSSPTRRPGF  
SPTSHRLLPTP

>sp|Q9UKN8|TF3C4\_HUMAN General transcription factor 3C polypeptide 4 OS=Homo sapiens  
GN=GTF3C4 PE=1 SV=2

MNTADQARVGPADDGPAPSGEEEGEGGGEAGGKEPAADAAPGPSAAFRLMVTRREPAVKL  
QYAVSGLEPLAWSEDHRVSVSTARSIAVLELICDVHNPQGDLVIHRTSVPAPLNSCLLKV  
GSKTEVAECKEKFASKDPTVSQTFMLDRVFNPEGKALPPMRGFKYTSWSPMGCDANGRC  
LLAALTMDNRLTIQANLNRLQWVQLVDLTEIYGERLYETSYRLSKNEAPEGNLGDFAEFQ  
RRHSMQTPVRMEWSGICTTQQVKHNECRDVGSVLLAVLFENGNIADVWFQQLPFVGKESI  
SSCNTIESGITSPSVLFWWEYEHNNRKMMSGLIVGSAFGPIKILPVNLKAVKGYFTLRQPV  
ILWKEMDQLPVHSIKCVPLYHPYQKCSCLVVAARGSYVFWCLLLISKAGLVNHNHSHVTG  
LHSLPIVSMTADKQNGTVYTCSDDGKVRQLIPIFTDVALKFEHQLIKLSDVFGSVRTHGI  
AVSPCGAYLAIITTEGMINGLHPVNKNYQVQFVTLKTFEEAAQLLESSVQNLFKQVDLI  
DLVRWKILKDKHIPQFLQEAEKKIESSGVTYFWRFKLFLLRILYQSMQKTPSEALWKPT  
HEDSKILLVDSPGMGNADDEQQEEGTSSKQVVKQGLQERSKEGDVEEPTDDSLPTTG DAG  
GREPMEEKLLEIQGKIEAVEMHLTREHMKRVLGEVYLHTWITENTSIPTRGLCNFLMSDE  
EYDDRTARVLIGHISKMNKQTFPEHC SLCKEILPFTDRKQAVCSNGHIWLR CFLT YQSC  
QSLIYRCLLHDSIARHPAPEDPDWIKRLLQSPCFCDSPVF

>sp|Q04206|TF65\_HUMAN Transcription factor p65 OS=Homo sapiens GN=RELA PE=1 SV=2

MDELFLIFPAEPAQASGPYVEIIIEQPKQRGMRFYKCEGRSAGSIPGERSTDTTKTHPT  
IKINGYTGPGTVRISLVTKDPPHRPHPHELVGKDCRDGFYEAELCPDRCIHSFQNLGIQC  
VKKRDLQAIQSRIQTNNNPFQVPIEEQRGDYDLNAVRLCFQVTVRDPSSGRPLRLPPVLS

HPIFDNRAPNTAELKICRVNRNSGSLGGDEIFLLCDKVQKEDIEVYFTGPGWEARGSFS  
QADVHRQVAIVFRTPPYADPSLQAPVRVSMQLRRPSDRELSEPMFQYLPDTDDRHRIEE  
KRRKTYETFKSIMKKSFPSTGPTDPRPPRRRIAVPSRSSASVPKPAPQYPFTSSLSTINY  
DEFPTMVFPSGQISQASALAPAPPQVLPQAPAPAPAPAMVSALAQAPAPVPVLAPGPPQA  
VAPPAPKPTQAGEGTLSEALLQLQFDDDLGALLGNSTDAVFTDLASVDNSEFQQLLNQ  
GIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAPAPLGAPGLPNGLLSGDEDFSSIADM  
DFSALLSQISS

>sp|Q5H9I0|TFDP3\_HUMAN Transcription factor Dp family member 3 OS=Homo sapiens GN=TFDP3  
PE=1 SV=1

MAKYVSLTEANEELKVLMDENQTSRPVAVHTSTVNPLGKQLLPKTFGQSSVNIDQQVVIG  
MPQRPAASNIPVVGSPNPPSTHFASQNHQSYSSPPWAGQHNKKEKNGMGLCRLSMKVWE  
TVQRKGTTSCEVVGELVAKFRAASNHASPNESAYDVKNIKRRTYDALNVLMAMNIIISRE  
KKKIKWIGLTTNSAQNCQNLRVERQKRLERIKQKQSELQQLILQQIAFKNLVLRNQYVEE  
QVSQRPLPNSVIHVPFIIIISSSKKTVINCSISDDKSEYLFKFNSFEIHDDTEVLMWMGM  
TFGLESGSCSAEDLKMARNLVPKALEPYVTEMAQGTGGVFTTAGSRNGTWLSASDLTN  
IAIGMLATSSGGSQYSGSRVETPAVEEEEEEDNDDDLSENEDD

>sp|P19532|TFE3\_HUMAN Transcription factor E3 OS=Homo sapiens GN=TFE3 PE=1 SV=4

MSHAAEPARDGVEASAEGPRAVFVLEERRPADSAQLLSLNSLLPESGIVADIELENVLD  
PDSFYELKSQPLPLRSSLPISLQATPATPATLSASSSAGGSRTAMSSSSSRVLLRQQL  
MRAQAQEQERRERREQAAAAPFPSPAPASPAISVVGVSAGGHTLSRPPPAQVPREVLKVQ  
THLENTRYHLQQARRQVQKYLSTTLGPKLASQALTPPPGPASQPLPAPEAAHTTGPT  
GSAPNSPMALLTIGSSSEKEIDDVIDEIIISLESSYNDEMLSYLPGGTTGLQLPSTLPVSG  
NLLDVYSSQGVATPAITVSNSCPAELPNIKREISETAKALLKERQKKNHNLIERRRRF  
NINDRIKELGTLIPKSSDPEMRWNKGITLKASVDYIRKLQKEQQRSKDLESQRSLEQAN  
RSLQLRIQELELQAQIHGLPVPPTPGLLSLATTASDSLKPEQLDIEEEGRPGAATFHV  
GGPAQNAPHQPPAPPDALLDLHFPSDHLGDLGDPFHLGLEDILMEEEGVVGGLSGGA  
LSPLRAASDPLLSSVSPAVSKASSRRSSFSMEES

>sp|O14948|TFEC\_HUMAN Transcription factor EC OS=Homo sapiens GN=TFEC PE=1 SV=1

MTLDHQIINPTLKWSQPAVPSGGPLVQHAHTLDSAGLTENPLTKLLAIGKEDDNAQWH  
MEDVIEDIIGMESSFKEEGADSPLLMQRTLSGSILDVYSGEQGISPINMGLTSASCPSSL  
PMKREITETDTRALAKERQKKNHNLIERRRRYNINRIKELGTLIPKSNPDPMRWNGKT  
ILKASVEYIKWLQKEQQRARELHRQKKLEQANRRLRLRIQELEIQARTHGLPTLASLGT  
VDLGAHVTKQSSHPEQNSVDYCQQLTVSQGPSPELCDQAIAFSDPLSYFTDLSFSAALKE  
EQRLDGMLLDDTISPFGTDLLSATSPAVSKESSRRSSFSDDGDEL

>sp|P10646|TFPI1\_HUMAN Tissue factor pathway inhibitor OS=Homo sapiens GN=TFPI PE=1 SV=1

MIYTMKKVHALWASVCLLLNLAPAPLNADSEEDDEHTIITDELPLPLKLMHSFCAFKADD  
GPCKAIMKRFFFNIFTRQCEFIYGGCEGNQRFESLEECKMCTRDNANRIIKTTLQQE  
KPDFCFLEEDPGICRGYITRYFYNNQTKQCERFKYGGCLNMNMFETLEECKNICEDGPN  
GFQVDNYGTQLNAVNNSLTPQSTKVPSLFEFHGPSWCLTPADRGLCRANENRFYNSVIG  
KCRPFKYSGCGGNENFTSKQECLRACKGFIQRISKGGLIKTKRKRKKQRVKIAYEEIF  
VKNM

>sp|Q9UP52|TFR2\_HUMAN Transferrin receptor protein 2 OS=Homo sapiens GN=TFR2 PE=1 SV=1

MERLWGLFQRAQQLSPRSSQTVYQRVGPRKGHLEEEEDGEEGAETLAHFCEMELRGPE  
PLGSRPRQPNLIPWAAAGRAAPYLVLTAALLIFTGAFLLYVAFRGSCQACGDSVLVVSE

DVNYEPDLDFHQGRLYWSDLQAMFLQFLGEGRLDITIRQTSLRERVAGSAGMAALTQDIR  
AALSQKLDHVWTDTHYVGLQFPDPAHPNTLHWVDEAGKVGELPLEDPDVYCPYSAIGN  
VTGELVYAHYGRPEDLQDLRARGVDPVGRLLLVVRGVISFAQKVTNAQDFGAQGVLITYE  
PADFSQDPPKPSLSSQAVYGHVHLGTGDPYTPGFPSFNQTQFPPVASSGLPSIPAQPIS  
ADIASRLLRKLKGPVAPQEWQGSLLGSPYHLGPGPRLRLVNNHRTSTPINNIFGCIEGR  
SEPDHYVVIGAQRDAWGPGAASAVGTAILLELVRTFSSMVSNGFRPRRSLLFISWDGGD  
FGSVGSTEWLEGYLSVLHLKAVVYVSLDNAVLGDDKFHAKTSPLLTSLIESVLKQVDSNP  
HSGQTLYEQVVFTNPWDAAEVIPLPMDSSAYSFTA FVGVPVEFSFMEDDQAYPFLHTK  
EDTYENLHKVLQGRLPAAVAQVLAQALLIRLSHDLRLPLDFGRYGDVLRHIGNLNEF  
SGDLKARGTLQWVYSARGDYIRAAEKLQEIYSSSEERDERLTRMYNVRIMRVEFYFLSQ  
YVSPADSPFRHIFMGRGDHTLGALLDHLRLRSNSSGTPGATSSTGFQESRFRRQLALLT  
WTLQGAANALSGDVWNIDNNF

>sp|P13726|TF\_HUMAN Tissue factor OS=Homo sapiens GN=F3 PE=1 SV=1

METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTKSTNFKTILEWEPK  
PVNQVYTVQISTKSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGS  
AGEPLYENSPEFTPYLETNLGQPTIQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFG  
KDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGENYCFVQAVIPSRTVNRKSTDSPVE  
CMGQEKGEFREIFYIIGAVVFVIIILVILAILSLHKCRKAGVGQSWKENSPLNVS

>sp|Q03167|TGBR3\_HUMAN Transforming growth factor beta receptor type 3 OS=Homo sapiens  
GN=TGFB3 PE=1 SV=3

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PQEVHVLNLRTAGQGPQLQREVTLHLNPISSVHIHHKSVVFLNNSPHPLVWHLKTERLA  
TGVSRFLVSEGSVVQFSSANFSLTAETEERNFPHGNEHLLNWARKEYGAVTSFTELKIA  
RNIYIKVGEDQVFPKCNIGKNFLSLNYLAEYLQPKAAEGCVMSSQPQNEEVHIIELITP  
NSNPYSAFQVDITIDIRPSQEDLEVVKNLILILKCKKSVNWIKSFDVKGSLKIIAPNSI  
GFGKESERSMTMTKIRDDIPSTQGNLVKWALDNGYSPITSYTMAPVANRFHLRLENNAE  
EMGDEEVHTIPPELRILLDPGALPALQNPPIRGGEGQNGGLPFPFPDISRRVWNEEGEDG  
LPRKDPVIPSILQPLGLPEEVQGSVDIALSVKCDNEKMIVAVEKDSFQASGYSGMDV  
TLDPCTCKAKMNGTHFVLESPLNGCGTRPRWSALDGVVYNSIVIQVPALGDSSGWPDPGY  
EDLESGDNGFPGMDDEGDASLFRPEIVVFNCSLQQVRNPSSFQEQPHGNITFMELYNT  
DLFLVPSQGVFSPENGHVVEVSVTKAEQELGFAIQTCTFISPSNPDRMSHYTIIENIC  
PKDES VKFYSPKRVHFP IQADMDKKRFSFVFKPVFNTSLLFLQCELTLCTKMEKHPQKL  
PKCVPPEACTSLDASIIWAMQNKKTFTKPLAVIHHEAESKEKGPSMKEPNPISPPIFH  
GLDTLTMGIAFAAFVIGALLTGALWYIYSHGETAGRQQVPTSPPASSENSAAHSIGST  
QSTPCSSSTA

>sp|Q8WUH2|TGFA1\_HUMAN Transforming growth factor-beta receptor-associated protein 1  
OS=Homo sapiens GN=TGFBAP1 PE=1 SV=1

MMSIKAFTLVSAVERELLMGDKERNIECCECCGRDLYVGTNDCFVYHFLLEERPVPAGP  
ATFTATKQLQRHLGFKKPVNELRAASALNRLLVLCDNSISLVNMLNLEPVPSGARIKGAA  
TFALNENPVSGDPFCVEVCIISVKRRTIQMFLVYEDRVQIVKEVSTAEQPLAVAVDGHFL  
CLALTTQYIIHNYSTGVSQDLFPYCSEERPPIVKRIGRQEFLLAGPGGLGMFATVAGISQ  
RAPVHWSENVIGAASFPYVIALDDEFITVHSMLDQQQKQTLPFKEGHILQDFEGRVIVA  
TSKGVYILVPLPLEKQIQDLLASRRVEEALVLAKGARRNIPKEKFQVMYRRILQQAGFIQ  
FAQLQFLEAKELFRSGQLDVRELISLYPFLPTSSSFTRSHPLHEYADLNQLTQGDQEK



MAKCKRFLMSYLNVRSTEVANGYKEDIDTALLKLYAEADHDSLLDLLVTENFCLLTDSA  
AWLEKHKKYFALGLLYHYNNQDAAAVQLWVNIVNGDVQDSTRSDLYEYIVDFLTCLDEE  
LVWAYADWVLQKSEEVGVQVFTKRPLDEQQKNSFNPDIIINCLKKYPKALVKYLEHLVID  
KRLQKEEYHTHLAVLYLEEVLQRASASGKGAEATETQAKLRRLQKSDLYRVHFLLERL  
QGAGLPMESAILHGKLGHEKALHILVHELQDFAAAEDYCLWCSEGRDPPHRQQLFHTLL  
AIYLGAGPTAHELAVAAVDLLNRHATEFDAAQVLQMLPDTWSVQLLCPFLMGAMRDSIHA  
RRTMQVALGLARSENLIYTYDKMKLKGSSIQLSDKKLCQICQNPFCFVFVRYPNGGLVH  
THCAASRHTNPSSSSPGTRT

>sp|O43294|TGFI1\_HUMAN Transforming growth factor beta-1-induced transcript 1 protein  
OS=Homo sapiens GN=TGFB1I1 PE=1 SV=2

MEDLDALLSDLETTSHMPRSGAPKERPAEPLTPPPSYGHQPQTGSGESSGASGDKDHL  
STVCKPRSPKPAAPAAPPFSSSSGVLGTGLCELDRLQLQELNATQFNITDEIMSQFPSSKV  
ASGEQKEDQSEDKKRPSLPSSPSPLPKASATSATLELDRLMASLSDFRVQNHLPASGPT  
QPPVVSSTNEGSPSPPEPTGKGSGLDMLGLLQSDLSRRGVPTQAKGLCGSCNKPIAGQVV  
TALGRAWHPEHFVCGGCGSTALGSSFFEKDGAPFCPECYFERFSPRCGFCNQPIRHKMVT  
ALGTHWHPHFCCVSCGEPFGDEGFHEREGRPYCRRDFLQLFAPRCQGCQGPILDNYISA  
LSALWHPDCFVCRECFAPFSGGSFFEHEGRPLCENHFHARRGSLCATCGLPVTGRCVSAL  
GRRFHPDHFTCTFCLRPLTKGSFQERAGKPYCQPCFLKLF

>sp|Q9BWD1|THIC\_HUMAN Acetyl-CoA acetyltransferase, cytosolic OS=Homo sapiens GN=ACAT2  
PE=1 SV=2

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHV  
LAAGCGQNPVRQASVGAGIPYSVPAWSCQMIGSGLKAVCLAVQSIGIGDSSIVVAGGME  
NMSKAPHLAYLRTGVKIGEMPLTDSILCDGLTDAFHNCMHGITAENVAKKWQVSREDQDK  
VAVLSQNRTEAQAAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHGSNIEAMSKLPYFLT  
DGTGTVTPANASGINDGAAAVLMMKKSEADKRGLTPLARIVSWSQVGVEPSIMGIGPIPA  
IKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGC  
RILVTLHTLERMGRSRGVAALCIGGGMGIAMCVQRE

>sp|Q6SJ96|TBPL2\_HUMAN TATA box-binding protein-like protein 2 OS=Homo sapiens GN=TBPL2  
PE=2 SV=1

MASAPWPPEVPRLLAPRLPSYPPPPPTVGLRSMEQEETYLELYLDQCAAQDGLAPPRSPL  
FSPVVPYDMYILNASNPDTAFNSNPEVKETSGDFSSVDLSFLPDEVTQENKDQPVISKHE  
TEENSESQSPQSRPLPSPSEQDVLGLNSSLNSHSQLHPGDTDSVQPSPEKPNSDSL  
ASITPMTPTPISECCGIVPQLQNIYSTVNACKLDLKKIALHAKNAEYNPKRFAAVIMR  
IREPRTTALIFSSGKMVCTGAKSEEQSRLAARKYARVVQKLGFARFLDFKIQNMVGSCD  
VRFPRIREGLVLTHQQFSSYEPELFPGLIYRMVKPRIVLLIFVSGKVVLTGAKERSEIYE  
AFENIYPILKGFKKA

>sp|Q86WV5|TEN1L\_HUMAN CST complex subunit TEN1 OS=Homo sapiens GN=TEN1 PE=1 SV=2  
MMLPKPGTYLPLWEVSAGQVPDGLRFTFGRCLCYDMIQSRVTLMAHQGSDQHQLVCTK  
LVEPFHAQVGSlyIVLGLQHQQDRGSVVKARVLTCEGMNPLLEQAIREQRLYKQERG  
GSQ

>sp|Q6N022|TEN4\_HUMAN Teneurin-4 OS=Homo sapiens GN=TENM4 PE=1 SV=2  
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KDIVPQEAEEFCRTGANFTLRELGLEEVTPPHGTLYRTDIGLPHCGYSMGAGSDADMEAD  
TVLSPEHPVRLWGRSTRSGRSSCLSSRANSNLTLTDEHENTETDHPGGLQNHARLRTPP

PPLSHAHTPNQHHAASINSLNRGNFTPRSNPSAPTDSLSGEPAGGAQEPAHAQENWL  
LNSNIPLETRNLGKQPFLGTLQDNLIEMDILGASRHDGAYSDGHFLFKPGGTSPLFCTTS  
PGYPLTSSTVYSPPPRPLPRSTFARPAFNLKKPSKYCNWKAALSAIVISATLVILLAYF  
VAMHLFGLNWHLQPMEGQMYEITEDTASSWPVPTDVSLYPSGGTGLETDPDRKGKGTTEGK  
PSSFFPEDSFIDSGEIDVGRRASQKIPPGTFWRSQVFIHDPVHLKFNVSLGKAALVGIYG  
RKGLPPSHTQFDFVELLDGRRLLTQEARSOLEGTTPRQSRGTVPSSSHETGFIQYLDSGIWH  
LAFYNDGKESEVVSFLTIAIESVDNCPSNCGNGDCISGTCHCFLGFLGPDGCRASCPVL  
CSGNGQYMKGRCLCHSGWKGAECDVPTNQCIDVACSNHGTCITGTICNPGYKGESCEEV  
DCMDPTCSGRGVCVRGECHCSVGWGGTNCETPRATCLDQCSGHGTFLPDTGLCSCDPSWT  
GHDCSIEICAADCGGHGVCVGGTCRCEDGWMGAACDQRACHPRCAEHGTCRDGKCECSPG  
WNGEHCTIAHYLDRVVKEGCPGLCNGNGRCTLDLNGWHCVCQLGWRGAGCDTSMETACGD  
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LVGRDSTHIIPGENPFDGGHACVIRGQVMTSDGTPLVGVNISFVNNPLFGYTIISRQDGSF  
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PVVSPSPLTSFASCAEKGPVPEIQALQEEISISGCKMRLSYLSSRTPGYKSVLRISLT  
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EYESCPDLILWEKRTTVLQGYEIDASKLGGWSLDKHHALNIQSGILHKNGENQFVSQQP  
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VAGTGDQCLPDDTRCGDGGKATEATLTNPRGITVDKFLIYFVDGTMIRRIDQNGIIST  
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VAGRPMHCQVPGIDHFLLSKVAIHATLESATALAVSHNGVLYIAETDEKKINRIRQVTTS  
GEISLVAGAPSGCDCKNDANCDGSGDDGYAKDAKLNTPSSLAVCADGELYVADLGNIRI  
RFIRKNKPFLNTQNMIELSSPIDQELYLFDTTGKHLTYQSLPTGDYLYNFTYTGDGDITL  
ITDNNGNMNVRRDSTGMPLWLVPDQGVYVWMTGNSALKSVTTQGHELAMMTYHGNSG  
LLATKSNENGWTTTFEYDSFGRLTNVTFPTGQVSSFRSDTDSSVHVQVETSSKDDVTITT  
NLSASGAFYTLLQDQVRNSYYIGADGSLRLLLANGMEVALQTEPHLLAGTVNPTVGKRV  
TLPIDNGLNLVEWRQRKEQARGQVTVFGRRLRVHNRNLLSLDFDRVTRTEKIYDDHRKFT  
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GKTWSYTYLEKSMVLLLHSQRQYIFEFDKNDRLSSVTMPNVARQTLETIRSVGYRNIYQ  
PPEGNASVIQDFTEGDHLLHTFYLTGTGRRVIYKYGKLSKLAETLYDTTKVSFTYDETAGM  
LKTINLQNEGFTCTIRYRQIGPLIDRQIFRFTEEGMVNARFDYNYDNSFRVTSMQAVINE  
TPLPIDLYRYDDVSGKTEQFGKFGVIYYDINQIITTAVMHTKHFDAYGRMKEVQYEIFR  
SLMYWMTVQYDNMGRVVKELKVGPYANTTRYSEYDADGQLQTVSINDKPLWRYSYDLN  
GNLHLLSPGNSARLTPLRYDIRDRITRLGDVQYKMDGFLRQRGGDIFEYNSAGLLIKA  
YNRAGSWSVRYRYDGLGRRVSSKSSSHHLQFFYADLTNPTKVTHLYNHSSEITSLYYD  
LQGHFLFAMELSSGDEFYIACDNIGTPLAVFSGTGLMIKQILYTAYGEIYMDTNPNFQII  
GYHGGLYDPLTKLVHMGRRDYDVLGRWTSPPHELWKHLSSSNVMPFNLYMFKNNNPISN  
SQDIKCFMTDVNSWLLTFGFQLHNVIPGYKPDMDAMEPSYELIHTQMKTQEWDNSKSL  
GVQCEVQKQLKAFVTLERFDQLYGSTITSCQQAPKTKKFASSGSVFGKGVKFALKDGRVT  
TDIISVANEDGRRVAAILNHAHYLENLHFTIDGVDTHYFVKPGPSEGLAILGLSGGRRT  
LENGVNVTVSQINTVLNGRTRRYTDIQLQYGALCLNTRYGTTLDEEKARVLELARQRAVR  
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MRQSEMGRR

>sp|Q92752|TENR\_HUMAN Tenascin-R OS=Homo sapiens GN=TNR PE=1 SV=3

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PKKACPCASSAQLQELLSRIEMLEREVSVLRDQC�ANCCQESAATGQLDYIPHCSGHGN  
FSFESCGCICNEGWFGKNCSEPYCPLGCSSRGVCVDGQCICDSEYSGDDCSELRCPTDCS  
SRGLCVDGECVCEEPYTGEDCRELRCPGDCSGKGRCANGTCLCEEGYVGEDCGQRQCLNA  
CSGRGQCEEGLCVCEEGYQGPDCSAVAPPEDLRVAGISDRSIELEWDGPMATVEYVISYQ  
PTALGGLQLQQRVPGDWSGVTITTELEPGLTYNISVYAVISNILSLPITAKVATHLSTPQG  
LQFKTITETTVEVQWEPFSFSDGWEISFIPKNNEGGVIAQVPSDVTSFNQTLKPGEY  
IVNVVALKEQARSPPTSASVSTVIDGPTQILVRDVSDTVAFVEWIPRAKVDFILLKYGL  
VGEGGRTTFRLQPLSQYSVQALRPGSRYEVSVAVRGTNESDSATTQFTTEIDAPKNL  
RVGSRTATSLDLEWDNSEAEVQEYKVYSTLAGEQYHEVLVPRGIGPTTRATLTDLVPGT  
EYGVGISAVMNSQQSVPATMNARTELDSPRDLMTASSETSISLIWTKASGPIDHYRITF  
TPSSGIASEVTVPKDRTSYTLTDLPGA EYIISVTAERGRQQSLESTVDAFTGFRPI SHL  
HFSHVTSSSVNITWSDPSPPADRLILNYSRDEEEEMMEVSLDATKRHAVLMGLQPATEY  
IVNLVAVHGTVTSEPIVGSITTGIDPPKDITISNVTKDSVMVSWSPPVASFDDYRVSYRP  
TQVGRLDSSVVPNTVTEFTITRLNPATEYEISLNSVRGREESERICTLVHTAMDNVPDLI  
ATNITPTEALLQWKAPVGEVENYVIVLTHFAVAGETILVDGVSEEFRLVDLLPSTHYTAT  
MYATNGPLTSGTISTNFSTLLDPPANLTASEVTRQSALISWQPPRAE IENYVLTYKSTDG  
SRKELIVDAEDTWIRLEGLLENTDYTVLLQAAQDTTWSSITSTAFTTGRVFPHPQDCAQ  
HLMNGDTLSGVYPIFLNGELSKQLQVYCDMTTDGGGWIVFQRRQNGQTDFFRKWADYRVG  
FGNVEDEFWLGLDNIHRITSQGRYELRVDMRDGQEAFAFYDRFSVEDSRNLYKLRIGSY  
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>sp|Q68CZ2|TENS3\_HUMAN Tensin-3 OS=Homo sapiens GN=TNS3 PE=1 SV=2

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LTKLNPKIMDVGWPELHAPPLDKMCTICKAQESWLNSNLQHVVIHCRGGKGRIGVVISS  
YMHFTNVSASADQALDRFAMKKFYDDKVSALMQPSQKRYVQFLSGLLSGSVKMNASPLFL  
HFVILHGTPNFDTGVCRPFLKLYQAMQPVYTSGIYNVG PENPSRICIVIEPAQLLKGDV  
MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSA  
TPEKIQGESELYNDHGVIVDYNTDPLIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKK  
SSSDPGIPGGPQAIPATNSPDHSDHTLSVSSDSGHSTASARTDKTEERLAPGTRRGLSAQ  
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PSKAFKPRFPGDQVNVGAGPELSTGPSPGSPTLDDIDQSI EQLNRLILELDPTFEP IPTHM  
NALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAEQPLGGRLRKLSLGQY  
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SPIGPKSTMLRADASSTPSFQQAFASSCTISSNGPQRRRESSSAERQWVESSPKPMVSL  
LGSGRPTGSPLSAEFSGTRKDSPLVSCFPSELQAPFHSHEL SLAEPDSLAPPSSQAFL  
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FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLDKEPGSFIVRDSH  
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TALVCQHSITPLALPCKLLIPERDPLEEIAESSPQTAANSAEELLKQGAACNVWYLSVE  
MESLTGHQAIQKALSITLVQEPPPVSTVVHFKVSAQGITLTDNQKRLFFRRHYPVNSVIF  
CALDPQDRKWIKDGPSSKVFVARKQGSATDNVCHLFAEHDPEQPASAIWNFVSKVMIG  
SPKKV

>sp|Q9NZI6|TF2L1\_HUMAN Transcription factor CP2-like protein 1 OS=Homo sapiens GN=TFCP2L1  
PE=2 SV=1

MLFWHTQPEHYNQHNSGSYLRLDLALPIFKQEEPQLSPENEARLPPLQYVLCAATSPAVK  
LHEETLTLYLNQGSYEIRLLENRKLGFQDLNTKYVKSIIIRVVFHRRLLQYTEHQQLEGW  
RWSRPGDRILDIDPLSVGILDPRASPTQLNAVEFLWDPAKRASAFIQVHCISTEFTPRK  
HGGEKGVPPFRVQIDTFKQNGEYTEHLHSASCQIKVFKPKGADRKQKTDREKMEKRTAQ  
EKEKYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPNSFGLGEGNASPTHPEALPV  
GSDHLLPSASIQDAQWLHRNRFSSQFCRLFAFSFGADLLKMSRDDLVQICGPADGIRLFN  
AIKGRNVRPKMTIYVCQEQNRVPLQQKRDGSGDSNLSVYHAIFLEELTTLELIEKIAN  
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>sp|Q00059|TFAM\_HUMAN Transcription factor A, mitochondrial OS=Homo sapiens GN=TFAM PE=1  
SV=1

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SKEQLPIFKAQNPDAKTTTELIRRIAQRWRELPDSKKKIYQDAYRAEWQVYKEEISRFKEQ  
LTPSQIMSLEKEIMDKHLKRKAMTKKKELTLLGPKRPRSAYNVYVAERFQEAKGDSPQE  
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>sp|Q9H5Q4|TFB2M\_HUMAN Dimethyladenosine transferase 2, mitochondrial OS=Homo sapiens  
GN=TFB2M PE=1 SV=1

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PRKASKASLDFKRYVTDRLAETLAQIYLGKPSRPPHLLLECNPGGILTQALLEAGAKV  
VALESDKTFIPHLESGLKNDGKLRIHCDFFKLDPRSGGVIKPPAMSSRGLFKNLGIEA  
VPWTADIPLKVVGMFPSRGEKRALWKLAYDLYSCTSIYKFGRIEVNMFIGEKEFQKLMAD  
PGNPDLYHVLVSIWQLACEIKVLHMEPWSSFDIYTRKGPLENPKRRELLDQLQKLYLIQ  
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>sp|P10600|TGFB3\_HUMAN Transforming growth factor beta-3 OS=Homo sapiens GN=TGFB3 PE=1  
SV=1

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VMTHVPYQVLALYNSTRELLEEMHGEREEGCTQENTESEYYAKEIHKFDMIQGLAEHNEL  
AVCPKGITSKVFRFNVSSEKNRTNLFRAEFRVLRVPNPSSKRNEQRIELFQILRPDEHI  
AKQRYIGGKNLPTRGTAEWLSFDVTDTVREWLLRRESNLGLEISIHCPCHTFQPNGDILE  
NIHEVMEIKFKGVDNEDDHGRGDLGRLKKQKDHHPHLILMMIPPHRLDNPQGQGRKKR  
ALDTNYCFRNLEENCCVRPLYIDFRQDLGWKVVHEPKGYANFCSGPCPYLRSADTTHST  
VLGLYNTLNPEASAPCCVPQDLEPLTILYYVGRTPKVEQLSNMVVKSCKCS

>sp|Q9GZN2|TGIF2\_HUMAN Homeobox protein TGIF2 OS=Homo sapiens GN=TGIF2 PE=1 SV=1

MSSDSLGEDEGLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKLSLSGQTNL  
SVLQICNWFINARRRLLPDMLRKDGKDPNQFTISRRGGKASDVALPRGSSPSVLAVSVA

PTNVLSSLVCSMPLHSGQGEKPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLF  
NTPPTPPEQDKEDFSSSQLLVEVALQRAAEMLQKQDPSLPLLHTPIPLVSENPQ

>sp|P21980|TGM2\_HUMAN Protein-glutamine gamma-glutamyltransferase 2 OS=Homo sapiens  
GN=TGM2 PE=1 SV=2

MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLTLHFEGRNYEASVDSLTF  
VVTGPAPSQEAGTKARFPLRDAVEEGDWTATVVDQQDCTLSQLTTPANAPIGLYRLSLE  
ASTGYQGSSSVLGHFILLFNAWCPADAVYLDSEEERQEYVLTQQGFIYQGSAKFIKNIPW  
NFGQFEDGILDICLILLDVNPKFLKNAGRDCSRRSSPVYVGRVVSVMVNCNDDQGVLLGR  
WDNNYGDGVSPMSWIGSVDILRRWKNHGCQRVKYGGCWWFAAVACTVLRCLGIPTRVVTN  
YNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIWNFHCWVESWMTRPDLQPGYEGWQALDPT  
PQEKSEGTYYCCGPVPVRAIKEGDLSTKYDAPFVFAEVNADVVDWIQQDDGSVHKSINRSL  
IVGLKISTKSVGRDEREDITHYKYPEGSSEEREAFTRANHLNKLAEKEETGMAMRIRVG  
QSMNMGSDFDVFAHITNNTAEEYVCRLLLCARTVSYNGILGPECGTKYLLNLNLEPFSEK  
SVPLCILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQK  
RKLVAEVSILQNPLPVALEGCTFTVEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLLPLHMG  
LHLKLVNFESDKLKAVKGFRNVIIGPA

>sp|Q08188|TGM3\_HUMAN Protein-glutamine gamma-glutamyltransferase E OS=Homo sapiens  
GN=TGM3 PE=1 SV=4

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GYPSESAMTKAVFPLSNGSSGGWSAVLQASNGNTLTISISSPASAPIGRYTALQIFSQ  
GGISSVKLGTFILLFNPWLNVDSVFMGNHAEREYVQEDAGIIFVGSTNRIGMIGWNFGQ  
FEEDIILSICLSILDRSLNFRDAATDVASRNDPKYVGRVLSAMINSNDDNGVLGNWSGT  
YTGGRDPRSWNGSVEILKNWKKSGFSPVRYGQCWVFAGTLNTALRSLGIPSRVITNFNSA  
HDTDRNLSVDVYYDPMGNPLDKGSDSVWNFHVWNEGWFVRSDLGPSYGGWQVLDATPQER  
SQGVFQCGPASVIGVREGDVQLNFDMPFIFAEVNADRI TWLYDNTTGKQWKNVNSHTIG  
RYISTKAVGSNARMVDTDKYKYPEGSDQERQVFQKALGKLKPNTPFAATSSMGLETEEQE  
PSIIGKLKVAGMLAVGKEVNLVLLKNSRDTKTVTVMNTAWTIIYNGTLVHEVWKDSAT  
MSLDPEEEAEHPKISYAQYEKYLKSDNMIRITAVCKVPDESEVVVERDIILDNPTLTLE  
VLNEARVRKPVNVQMLFSNPLDEPVRDCVLMVEGSGLLLGNLKIDVPTLGPKEGSRVRFD  
ILPSRSGTKQLLADFSCNKFPKAMLSIDVAE

>sp|Q9H5L6|THAP9\_HUMAN DNA transposase THAP9 OS=Homo sapiens GN=THAP9 PE=1 SV=2

MTRSCSAVGCSTRDVTLSRERGLSFHQFPTDTIQRSKWIRAVNRVDPRSKKIWIIPGPAI  
LCSKHFQESDFESYGI RRKLKKGAVPSVSLYKIPQGVHLKGKARQKILKQPLPDNSQEVA  
TEDHNYSLKTPLTIGAELAEVQQLQVSKKRLISVKNYRMKKRGLRLIDALVEEKLL  
SEETECLLRAQFSDFKWELYNWRETDEYSAEMKQFACTLYLCSKVYDYVRKILKLPHSS  
ILRTWLSKCQPSPGFNSNIFSFLQRRVENDQLYQYCSLLIKSMPLKQQLQWDPSSHSLQ  
GMDFGLGKLDADETPASETVLLMAVGIFGHWRTPLGYFFVNRASGYLQAQLRLTIGK  
LSDIGITVLAVTSDATAHSVQMAKALGIHIDGDMKCTFQHPSSSSQIAYFFDSCHLLR  
LIRNAFQNFQSIQFINGIAHWQHLVELVAEEQELSNMERIPSTLANLKNHVLKVN SATQ  
LFSESVASALEYLLSLDLPFQNCIGTIHFLRLINNLFIDFNSRNCYKGLKGPLLPETY  
SKINHVLIEAKTIFVTLSDTSNQIIKKGKQLGFLGFLNLAESLKWLYQNYVFPKVMFPF  
YLLTYKFSDHLELFLKMLRQVLVTSSSPTCMAFQKAYYNLETRYKFQDEVFLSKVSIFD  
ISIARRKDLALWTVQRQYGVSVTKTVFHEEGICQDWSHCSLSEALLDSDHRRNLICYAG  
YVANKLSALLTCEDCITALYASDLKASKIGSLLFVKKKNGLHFPSES LCRVINICERVVR

THSRMAIFELVSKQRELYLQQKILCELSGHINLFVDVNKHLFDGEVCAINHFVKLLKDI I  
ICFLNIRAKNVAQNPLKHHsertDMKTLsrKHWSSVQDYKCSSFANTSSKFRHLLSNDGY  
PFK

>sp|P09110|THIK\_HUMAN 3-ketoacyl-CoA thiolase, peroxisomal OS=Homo sapiens GN=ACAA1 PE=1  
SV=2

MQRLQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADV VVHGRRTAICRAGRGGFKDTT  
PDELLSAVMTAVLKDVNLRPEQLGDI CVGNVLQPGAGAIMARIAQFLSDIPETVPLSTVN  
RQCSSGLQAVASIAGGIRNGSYDIGMACGVESMSLADRGNPGNITSRLMEKEKARDCLIP  
MGITSENAERFGISREKQDTFALASQQKAARAQSKGCFQAEIVPVT TTVHDDKGTKRSI  
TVTQDEGIRPSTTMEGLAKLKPAFKKDGSTTAGNSSQVSDGAAA ILLARRSKAEELGLPI  
LGVLSYAVVGVPPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINEAFASQAAYCVEKLR  
LPPEKVNPLGGAVALGHPLGCTGARQVITLLNELKRRGKRAYGVVSMCIGTGMGAAVFE  
YPGN

>sp|Q5SRD1|TI23B\_HUMAN Putative mitochondrial import inner membrane translocase subunit  
Tim23B OS=Homo sapiens GN=TIMM23B PE=5 SV=2

MEGGGGSGNKTGGLAGFFGAGGAGYSHADLAGVPLTGMNPLSPYLNVDPRYL VQDTDEF  
ILPTGANKTRGRFELAFFTIGGCCMTGAAFGAMNGLRLGLKETQNM AWSKPRNVQILNMV  
TRQ GALWANTLGLSLALLYSAFGVIEKTRGAEDDLNTVAAGTMTGMLYKCTETGFHHGAQ  
ANFQSEIIFRFLTRFFYAKKKASYSQISQKNLDF TILLRLKTLRSVESKCYVIFVDELL  
KNRIPQRIKCLMHNKPT

>sp|Q08629|TICN1\_HUMAN Testican-1 OS=Homo sapiens GN=SPOCK1 PE=1 SV=1

MPAIAVLAAAAAAWCFLQVESRHLDALAGGAGPNHGNFLDNDQWLSTVSQYDRDKYWNRF  
RDDDYFRNWNPNKPFQALDPSKDPCLKVKCSPHKVCVTQDYQTALCVSRKHLLPRQKKG  
NVAQKHWVGPSNLVKCKPCPVAQSAMVCGSDGHSYTSKCKLEFHACSTGKSLATLCDGPC  
PCLPEPEPPKHKAEASACTDKELRNLASRLKDWFGALHEDANRVIKPTSNTAQGRFDTS  
ILPICKDSLGMFNKLDMNYDLLDPSEINAIYLDKYEPCKPLFNSCDSFKDGKLSNNE  
WCYCFQKPGGLPCQNMNRIQKLSKGKSLLGAFIPRCNEEGYYKATQCHGSTGQCWCVDK  
YGNELAGSRKQGAVSCEEEQETSGDFGSGGSVVLLDDLEYERELGPKDKEGKLRVHTRAV  
TEDDEDEDDKEDVGYIW

>sp|O15164|TIF1A\_HUMAN Transcription intermediary factor 1-alpha OS=Homo sapiens  
GN=TRIM24 PE=1 SV=3

MEVAVEKAVAAAAAASAAASGGPSAAPSGENEAESRQGPDSERGGEAARLNLLDTCVCH  
QNIQSRAPKLLPCLHSFCQRCLPAPQRYLMLPAPMLGSAETPPPVPAPGSPVSGSSPFAT  
QVGVI RCPVCSQECAERHI IDNFFVKDTTEVPSSSTEKSNQVCTSCEDNAEANGFCVECV  
EWLCKTCIRAHQRVKFTKDHTVRQKEEVSPEAVGVTSQRPVFCPFHKKEQLKLYCETCDK  
LTCRDCQLLEHKEHRYQFIEEAFQNKV I IDTLITKLEKTKYIKFTGNQIQNRI IEVNQ  
NQKQVEQDIKVAIFTLMVEINKKGKALLHQLES LAKDHRMKLMQQQEVAGLSKQLEHVM  
HFSKWAVSSGSSTALLYSKRLITYRLRHLLRARCDASPTNNTIQFHCDPSFWAQNI INL  
GSLVIEDKESQPQMPKQNPVVEQNSQPPSGLSSNQLSKFPTQISLAQLRLQHMQQQVMAQ  
RQQVQRRPAPVGLPNPRMQGPIQQPSISHQQPPRLINFQNHSPKPNGPVLPPHPQQLRY  
PPNQNI PRQA IKPNPLQMAFLAQQA IKWQISSGQGTPSTTNSTSPSSPTITSAAGYD  
GKAFGSPMIDLSSPVGGSYNLPSLPDIDCSSTIMLDNIVRKDTNIDHGQPRPPSNRTVQS  
PNSSVPSPGLAGPVTMTSVHPPIRSPSASSVGSRGSSGSSSKPAGADSTHKVPVVMLEPI  
RIKQENSGPPENYDFPVVIVKQESDEESRPQNANYPRSILTSLLLNSSQSSTSEETVLRS

DAPDSTGDQPGLHQDNSSNGKSEWLDPSQKSPLHVGETRKEDDPNEDWCAVCQNGGELL  
CEKCPKVFHLSCHVPTLTNFPSEWICTFCRDLSPKEVEYDCDAPSHNSEKKKTEGLVKL  
TPIDKRKCERLLFLYCHEMSLAFQDPVPLTVPDYKI IKNPMDLSTIKRLQEDYSMYS  
KPEDFVADFRLIFQNCAEFNEPDSEVANAGIKLENYFEELLKNLYPEKRFKPEFRNESE  
DNKFSDDSDDDFVQPRKKRLKSIEERQLLK

>sp|Q17RP2|TIGD6\_HUMAN Tigger transposable element-derived protein 6 OS=Homo sapiens  
GN=TIGD6 PE=2 SV=2

MANKGNKKRRQFSLEEKMKVVGAVDSGKRKGDVAKEFGITPSTLSTFLKDRTKFEEKVRE  
ASVGPQQRKMRSALYDDIDKAVFAWFQEIHAKNILVTGSGVIRKKALNLANMLGYDNFQAS  
VGWLNRFDRHGIKAVCREDSRLMNLGIDKINWHAGEI IKLIADYSPDDIFNADE  
TGVFFQLLPQHTLAAGDHCRGGKKAKQRLTALFCCNASGTEKMRPLIVGRSASPHCLKN  
IHSLPCDYRANQWAWMTRDLFNEWLMQVDARMKRAERRILLIDNCSAHNMLPHLERIQV  
GYLPSNCTAVLQPLNLGIHTMKVLYQSHLLKQILLKLNSSEDQEEVDIKQAIDMIAAAW  
WSVKPSTVVCKWQKAGIVPMEFAECDTESAASEPDIAIEKLWHTVAIATCVPNEVNFQDF  
VTADDDLIISQDTDIIQDMVAGENTSEAGSEDEGEVSLPEQPKVTITEAISSVQKLQFL  
STCVDIPDAIFGQLNGIDEYLMKRVTTQTLIDSKITDFLQTK

>sp|Q9Y5L4|TIM13\_HUMAN Mitochondrial import inner membrane translocase subunit Tim13  
OS=Homo sapiens GN=TIMM13 PE=1 SV=1

MEGGFGSDFGSGSGKLDPLIMEQVKVQIAVANAQELLQRMTDKCFRKCIGKPGGSLDN  
SEQKCIAMCMDRYMDAWNTVSRAYNSRLQRERANM

>sp|Q9Y584|TIM22\_HUMAN Mitochondrial import inner membrane translocase subunit Tim22  
OS=Homo sapiens GN=TIMM22 PE=1 SV=2

MAAAPNAGGSAPETAGSAEAPLQYSLLLQYLVGDKRQPRLLEPGSLGGIPSPAKSEEQK  
MIEKAMESCAFKAAACVGGFVLGGAFGVFTAGIDTNVGFDPKDPYRPTAKEVLKDMGQ  
RGMSYAKNFAIVGAMFSCTECLIESYRGTSDWKNSVISGCITGGAIGFRAGLKAGAIGCG  
GFAAFSAADYYLR

>sp|P16035|TIMP2\_HUMAN Metalloproteinase inhibitor 2 OS=Homo sapiens GN=TIMP2 PE=1 SV=2

MGAAARTLRLALGLLLLATLLRPADACSCSPVHPQQAFCNADVVIRAKAVSEKEVDSGND  
IYGNPIKRIQYEIKQIKMFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDG  
KMHITLCDFIVPWTDLSTTQKKS LNHR YQMGCECKITRCPMIPCYISSPDECLWMDWVTE  
KNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDP

>sp|Q9UJW2|TINAG\_HUMAN Tubulointerstitial nephritis antigen OS=Homo sapiens GN=TINAG PE=2  
SV=3

MWTGYKILIFSylTTEIWMEKQYLSQREVDLEAYFTRNHTVLQGTRFKRAIFQGQYCRNF  
GCCEDRDDGCVTEFYAANALCYCDKFCDRENSDCCPDYKSFCEEKEWPPHTQPWYPEGC  
FKDGQHYYEESVIKENCNSCTCSGQWKCSQHVC LVRSELIEQVNKG DYGWTAQNY SQFW  
GMTLEDGFKFRLGTLPPSPMLLSMNEMTASLPATTDLPEFFVAS YKWPGWTHGPLDQKNC  
AASWAFSTASVAADRIA IQSKGRYTANLSPQNLISCCA KNRHGCNSGSIDRAWWYLRKRG  
LVSHACYPLFKDQATNNGCAMASRSDGRGRHATKPCPNNVEKSNRIYQCSPPYRVSSN  
ETEIMKEIMQNGPVQAIMQVREDFHYKTGIYRHVTSTNKESEKYRKLQTHAVKLTGWGT  
LRGAQGQKEKFWIAANSWGKSWGNGYFRILRGVNESDIEKLIIAAWGQLTSSDEP

>sp|Q3LXA3|TKFC\_HUMAN Triokinase/FMN cyclase OS=Homo sapiens GN=TKFC PE=1 SV=2

MTSKKL VNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLDSLKGRVALLSGGGSGHE  
PAHAGFIGKMLTGVIAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGDRLNFG

AREQARAEGIPVEMVVGDDSAFTVLKKAGRRGLCGTVLIHKVAGALAEAGVGLLEIAKQ  
VNVVAKAMGTLGVSLSSCSVPGSKPTFELSADLEVELGLGIHGEAGVRRIKMATADEIVKL  
MLDHMTNTTNASHVPVQPGSSVMMVNNLGGLSFLELGIADATVRSLEGRGVKIIARALV  
GTFMSALEMPGISLTLLLVDEPLLKLIDAETTAAAWPNVAASITGRKRSRVAPAEPQEA  
PDSTAAGGSASKRMALVLERVCSTLLGLEEHLNALDRAAGDGDGCTTHSRAARAIQEWLK  
EGPPPASPAQLLSKLSVLLLEKMGSSGALYGLFLTAAQPLKAKTSLPAWSAAMDAGLE  
AMQKYGAAPGDRTMLDSLWAAGQELQAWKSPGADLLQVLTAVKSAEAAAATKNMEAG  
AGRASYISSARLEQPDPGAVAAAAILRAILEVLQS

>sp|P29401|TKT\_HUMAN Transketolase OS=Homo sapiens GN=TKT PE=1 SV=3

MESYHKPDQQLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKS  
QDPRNPHNDRFVLSKGHAAPILYAVWAEAGFLAEALLNRKISSDLGHPVPKQAFDTV  
ATGSLGQLGAACGMAYTGKYFDKASYRVYCLLDGDELSEGSVWEAMAFASIYKLDNLVA  
ILDINRLGQSDPAPLQHQMIDIYQKRCEAFGWHAIIVDGHSVEELCKAFGQAKHQPTAIIA  
KTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKILATPPQEDAPSVDIAN  
IRMPSLPSYKVGDKIATRKAYGQALAKLGHASDRIIALDGDTKNSTFSEIFKKEHPDRFI  
ECYIAEQNMVSIIVGCATRNRTVPFCSTFAAFFTRAQDQIRMAAISESNINLCGSHCGVS  
IGEDGPSQMALEDLAMFRSVPTSTVFYPSDGVATEKAVELAANTKGICFIRTSRPENAI  
YNNNEDFQVGQAKVVLKSKDDQVTIVIGAVTLHEALAAELLKKEKINIRVLDPFITKPL  
DRKLILDSARATKGRILTVEDHYEYEGGIGEAVSSAVVGEPGITVTHLAVNRVPRSGKPAE  
LLKMFIDRDAIAQAVRGLITKA

>sp|Q6P9B6|TLDC1\_HUMAN TLD domain-containing protein 1 OS=Homo sapiens GN=TLDC1 PE=1 SV=2

MGNSRSRVGRSFCSSQFLPEEQAEIDQLFDALSSDKNSPNVSSKSFSLKALQNHVGEALPP  
EMVTRLYDGMRRVDLTGKAKGPEENVSQEQFTASMSHLLKGNSEEKSLMIMKMISATEGP  
VKAREVQKFTEDLVGSVVHVLSHRQELRGWTGKEAPGNPRVQVLAQQLSDMKLQDGKR  
LLGPQWLDYDCDRAVIEDWVFRVPHVAIFLSVVICKGFLILCSSLDLTTLVPERQVDQGR  
GFESILDVLSVMYINAQLPREQRHRWCLLFSELHGHSFSQLCGHITHRGPCVAVLEDHD  
KHVFGGFASCSWEVKPQFQGDNRCLFSLICPSMAVYTHGTGYNDHYMYLNHGQQTIPNGLG  
MGGQHNYFGLWVDVDFGKGHSRAKPTCTTNSPQLSAQENFQFDKMEVWAVGDPSEEQLA  
KGNKSILDADPEAQALLEISGHSRHSEGLREVDPDE

>sp|Q04725|TLE2\_HUMAN Transducin-like enhancer protein 2 OS=Homo sapiens GN=TLE2 PE=1 SV=2

MYPQGRHPTPLQSGQPFKFSILEICDRIKEEFQLQAQYHSLKLECEKLASEKTEMQRHY  
VMYYEMSYGLNIEMHKQAEIVKRLSGICAQIIPFLTQEHQQQVLQAVERAKQVTVGELNS  
LIGQQLQPLSHHAPPVPLTPRAGLVGGSATGLLALSGALAAQAQAAAVKEDRAGVEAE  
GSRVERAPSRASPPESLVEEERPSGPGGGGKQRADEKEPSGPYESDEDKSDYNLVVD  
EDQPSEPPSPATTPCGKVPICIPARRDLVDSASLASSLGSPLPRAKELILNDLPASTPA  
SKSCDSSPPQDASTPGSSASHLCQLAAKPAPSTDVALRSPLTLSSPFTTSFSLGSHST  
LNGDLSVPSSYVSLHLSQVSSSVVYGRSPVMAFESHPLRGSSVSSSLPSIPGGKPAYS  
FHVSADGQMPPVPPSDALVGAGIPRHARQLHTLAHGEVCAVTISGSTQHVTGGKGCV  
KVWDVGQPGAKTPVAQLDCLNRDNYIRSKLLPDGRSLIVGGEASTLSIWDLAAPTARIK  
AELTSSAPACYALAVSPDAKVCSCSDGNIVWDLQNQTMVRQFQGHDTGASCIDISDY  
GTRLWTGGLDNTVRCWDLREGRQLQQHDFSSQIFSLGHCPNQDWLAVGMESNVEILHVR  
KPEKYQLHLHESCVLSLKFASCGRWVFSTGKDNLLNAWRTPYGASIFQSKESSSVLSCDI  
SRNNKYIVTSGDGKATVYEVVY



>sp|060603|TLR2\_HUMAN Toll-like receptor 2 OS=Homo sapiens GN=TLR2 PE=1 SV=1

MPHTLWMVWVLGVIIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLS  
NNRITYISNSDLQRCVNLQALVLTSNGINTIEEDSFSSLSLEHLDSYNYLSNLSSSWF  
KPLSSLTFLNLLGNPYKTLGETSLFSLTKLQILRVGNMDTFTKIQRKDFAGLTFLEELE  
IDASDLQSYEPKSLKSIQNVSHLILHMKQHILLEIFVDVTSSVECLELRDLDLDTFHFS  
ELSTGETNSLIKKFTFRNVKITDESFLQVMKLLNQISGLLELEFDDCTLNGVGNFRASDN  
DRVIDPGKVETLTIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFLVPCLLSQHLK  
SLEYLDLSENLMVEEYLKNSACEDAWPSLQTLILRQNHLASLEKTGETLLTLKNLTNIDI  
SKNSFHSMPETCQWPEKMKYLNLSSTRIHSVTGCIPKTEILDVSNNNLNLFSLNLPQLK  
ELYISRNLMTLPDASLLPMLLVLKISRNAITTFKSKEQLDSFHTLKTLEAGGNFICSCE  
FLSFTQEQQALAKVLIDWPANYLCDSPSHVRGQQVQDVRLSVSECHRTALVSGMCCALFL  
LILLTGVLCHRFGHLWYMKMMWAWLQAKRKPRKAPSRNICYDAFVSYSERDAYWVENLMV  
QELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTVFVLSSENVKSEWCKYELDFS  
HFRLFDENNDAAIILLEPIEKKAIPQRFCCLKRKIMNTKTYLEWPMDEAQREGFWNLRA  
AIKS

>sp|015455|TLR3\_HUMAN Toll-like receptor 3 OS=Homo sapiens GN=TLR3 PE=1 SV=1

MRQTLPCIYFWGGLLPFGMLCASSTTKCTVSHEVADCSHLKLTQVPDDLPTNITVLNLTH  
NQLRRLPAANFTRYSLTSLDVGFNTISKLEPELCQKLPMKVLNLQHNELSQLSDKTFA  
FCTNLTELHMSNSIQIKNNPFVKQKNLITLDLSHNGLSSTKLGTQVQLENLQELLSN  
NKIQALKSEELDIFANSSKKLELSSNQIKEFSPGCFHAIGRLFGLFLNNVQLGPSLTEK  
LCLELANTSIRNLSLSNSQLSTTSNTTFLGLKWTNLTMLDLSYNNLVVGNDSFAWLPQL  
EYFFLEYNNIQHLFSHSLHGLFNVRYLNLKRSFTKQSIASLSPKIDDFSQWLKCLEHL  
NMEDNDIPGIKSNMFTGLINLKYLSLSNSFTSLRTLNETFVSLAHSPLHILNLTKNKIS  
KIESDAFSWLGHLEVLDLGLNEIGQELTGQEWGLENIFEIYLSYNKYQLTRNSFALVP  
SLQRLMLRRVALKNVDSSPSPFQPLRNLTILDLSNNNIANINDDMLEGLEKLEILDQHN  
NLARLWKHANPGGPPIYFLKGLSHLHILNLESNGFDEIPVEVFKDLFELKIIDLGLNNLNT  
LPASVFNNQVSLKSLNLQKNLITSVEKKVFGPAFRNLTELDMRFNPFDCETESIAWFVNW  
INETHTNIPELSSHYLCNTPPHYHGFPVRLFDTSSCKDSAPFELFFMINTSILLIFIFIV  
LLIHFEGWRIISFYWNVSVHRVLGFKEIDRQTEQFEYAAYIIHAYKDKDWVWEHFSSMEKE  
DQSLKFCLEERDFEAGVFELEAIVNSIKRSRKIIFVITHLLKDPLCKRFKVHHAVQQAI  
EQNLDSIILVFLEEIPDYKLNHALCLRRGMFKSHCILNWPVQKERIGAFRHLQVALGSK  
NSVH

>sp|000206|TLR4\_HUMAN Toll-like receptor 4 OS=Homo sapiens GN=TLR4 PE=1 SV=2

MMSASRLAGTLIPAMAFSLCVRPESWEPCVEVVPNITYQCMELNFYKIPDNLPFSTKNLD  
LSFNPLRHLGSYSFFSFPELQVLDLSRCEIQTIEDGAYQSLSHLSTLILTGNPIQSLALG  
AFSGLSSLQKLVAVETNLASLENFPIGHLKTLKELNVAHNLIQSFKLPEYFSNLTNLEHL  
DLSSNKIQSIYCTDLRVLHQMPLLNLSLDLSLNPMMFIQPGAFKEIRLHKLTLRNNFDSL  
NVMKTCIQGLAGLEVHRLVLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDI  
IDLFNCLTNVSSFSLSVSVTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTS  
NKGGNAFSEVDLPSLEFLDLSRNLGSFKGCCSQSDFGTTSLKYLDLSFNQVITMSSNFLG  
LEQLEHLDFQHSNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLKMAG  
NSFQENFLPDIFTELRLNLTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPY  
KCLNSLQVLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFACTCEHQSFLQWIKDQRQL  
LVEVERMECATPSDKQGMPVLSLNTICQMNKTIIGVSVLSVLVSVVAVLVYKFYFHLML

LAGCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA  
NIIHEGFHKSRKIVVVSQHFIQSRWCIFEYEIAQTWQFLSSRAGIIFIVLQKVEKTLLR  
QQVELYRLLSRNTYLEWEDSVLGRHIFWRRRLRKALLDGKSWNPEGTVGTGCNWQEATSI  
>sp|043763|TLX2\_HUMAN T-cell leukemia homeobox protein 2 OS=Homo sapiens GN=TLX2 PE=1  
SV=2

MEPGMLGPHNLPHEPISFGIDQILSGPETPGGGLGLGRGGQGHGENGAFSGGYHGASGY  
GPAGSLAPLPGSSGVPGGVIRVPAHRPLPVPPPAGGAPAVPGPSGLGGAGGLAGLTFPW  
MDSGRRFAKDRLTAALSPFSGTRRIGHPYQNRTPPKRKKPRTSFSSRSQVLELERRFLRQK  
YLAERAALAKALRMTDAQVKTWFQNRRTKWRRQTAEREERHRAGRLLHLQQDALP  
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>sp|Q9NT68|TEN2\_HUMAN Teneurin-2 OS=Homo sapiens GN=TENM2 PE=1 SV=3

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AVCQNVFCVDCDVVHDSLHCCPGCIHKIPAPSGV

>sp|POC1Z6|TFPT\_HUMAN TCF3 fusion partner OS=Homo sapiens GN=TFPT PE=1 SV=1

MELEQREGTMAAVGFEEFSAPPGSELALPPLFGGHILESELETEVEFVSGGLGGSLRER  
DEEEEAARGRRRRQRELNRRKYQALGRRCREIEQVNERVLNRLHQVQRITRRLQQERRFL  
MRVLDSYGDDYRASQFTIVLEDEGSQGTDAPTPGNAENEPPEKETLSPPRRTAPPEPGS  
PAPGEGPSGRKRRRVRDGRAGNALTPELAPVQIKVEEDFGFEADEALDSSWVSRGPDK  
LLPYPTLASPASD

>sp|P02786|TFRI\_HUMAN Transferrin receptor protein 1 OS=Homo sapiens GN=TFRC PE=1 SV=2

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDNHVMKLAVIDEENADNNTKANVTCPK  
RCSGSICYGTIAIVFFLIGFMIGYLGCKGVEPKTECERLAGTESPVREEPGEDFPAAR  
RLYWDDLKRKLSEKLDSTDFGTGTLKLLNENSYPREAGSQKDNLALYVENQFREFKLSK  
VWRDQHFVKIQVKDSQNSV IIVDKNGRLVYLVENPGGYVAYSKAATVTGKLVHANFGTK  
KDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH  
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTISRAAAELFGNMEGDCPSDWKTD  
STCRMVTSSEKNVCLTVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAASG  
VGTALLLKLQMFSDMVLKDGFPQRSIIIFASWSAGDFGSVGATEWLEGYLSLHLKAFT  
YINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQDSNWASKVEKLTLDNA  
AFPFLAYSIGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK  
LTHDVELNLDYERYSQQLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDF  
GNAEKTDRFVMKKLNDRVMRVEYHFLSPYVSPKESPFRRHVFWSGSHTLPALLENLKLK  
QNNGAFNETLFRNLALATWTIQGAANALSGDVWDIDNEF

>sp|P24557|THAS\_HUMAN Thromboxane-A synthase OS=Homo sapiens GN=TBXAS1 PE=1 SV=3

MEALGFLKLEVNPMVTVALSALLALKWYSTSAFSRLEKLGLRHPKPSPIGNLTFFR  
QGFWESQMELRKLYGPLCGYYLGRRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSV  
ADSVLFLRDKRWEVVRGALMSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQR  
CYCNYTTDVVASVAFGTPVDSWQAPEDPFVKHCKRFFEFICIPRILVLLSFPSIMVPLA  
RILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRDFLQMVLDARHSASPMGVQDFDIV  
RDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNTLSFATYLLATN  
PDCQEKLLREVDVFKEKHMAPEFCSLEEGLPYLDMVIETLRMYPPAFRFTREAAQDCEV

LGQRIPAGAVLEMAVGALHHDPEHWSPETFNPERFTAEARQQHRPFTYLPFGAGPRSC  
GVRLGLLEVKLTLHLVHKFRFQACPETQVPLQLESKSALGPKNQVYIKIVSR

>sp|Q86YJ6|THNS2\_HUMAN Threonine synthase-like 2 OS=Homo sapiens GN=THNSL2 PE=2 SV=3

MWYVSTRGVAPRVNFEALFSGYAPDGGFLMPEELPQLDRGTLCQWSTLSYPGLVKELCA  
LFIGSELLPKDELNDLIDRAFSRFRHREVHLSRLRNLNVLELWHGVTYAFKDLSLSCT  
TQFLQYFLEKREKHTVTVVGTSGDTGSAAIESVQGAKNMDIIVLLPKGHCTKIQELQMTT  
VLKQNVHVFVGEVGSDELDEPIKTVFADVAFVKHNLMSLNSINWSRVLVQMAHHFFAYF  
QCTPSLDTHPLPLVEVVPTGAAGNLAAGYIAQKIGLPIRLVVAVNRNDIIHRTVQQGDF  
SLSEAVKSTLASAMDQVPYNMERVFVWLLSGSDSQVTRALMEQFERTQSVNLPKELHSKL  
SEAVTSVSVSDEAITQTMGRCWDENQYLLCPHSAVAVNYHYQQIDRQQPSTPRCCLAPAS  
AAKFPEAVLAAGLTPETPAEIVALEHKETRCTLMRRGDNWMLMLRDTIEDLSRQWRSHAL  
NTSQ

>sp|Q9BV44|THUM3\_HUMAN THUMP domain-containing protein 3 OS=Homo sapiens GN=THUMP3 PE=1  
SV=1

MCDIEEATNQLLDVNLHENQSVQVTESDLGSESELLVTIGATVPTGFEQTAADDEVREKL  
GSSCKISRDRGKIYFVISVESLAQVHCLRSVDNLFVVVQEFQDYQFKQTKEEVLKDFEDL  
AGKLPSWNLKVWKNASFKKKKAKRKKINQSSKEKINNGQEVKIDQRNVKKEFTSHAL  
DSHILDYYENPAIKEDVSTLIGDDLASCKDETDESSKEETEPQVLKFRVTCNRAGEKHCF  
TSNEAARDFGGAVQDYFKWKADMTNFDVEVLLNIHDNEVIVGIALTEESLHRRNITHFGP  
TTLRSTLAYGMLRLCDPLPYDIIIVDPMCGTGAIPIEGATEWSDCFHIAGDNNPLAVNRRA  
NNIASLLTKSQIKEGKPSWGLPIDAVQWDICNLPLRTGSVDIIVTDLPGFKRMGSKKRNW  
NLYPACLREMSRVCTPTTGRAVLLTQDTKCFKALSGMRHVWRKVDTVVWNVGGLRAAVY  
VLIRTPQAFVHPSEQDGERGTLWQCKE

>sp|P04216|THY1\_HUMAN Thy-1 membrane glycoprotein OS=Homo sapiens GN=THY1 PE=1 SV=2

MNLAISIALLLTVLQVSRGQKVTSLTACLVDQSLRLDCRHENTSSSPIQYEFSLTRETKK  
HVLFGTVGVPEHTYRSRTNFTSKYNMKVLYLSAFTSKDEGTYTCALHHS GHSPPISSQNV  
TVLRDKLVKCEGISLLAQNTSWLLLLLSLLQATDFMSL

>sp|Q9BQ16|TICN3\_HUMAN Testican-3 OS=Homo sapiens GN=SPOCK3 PE=1 SV=2

MLKVSAVLCVCAAAWCSQLAAAAVAAAGGRSDGGNFLDDKQWLTTISQYDKEVGQWNK  
FRDEVEDDYFRTWSPGKPFQALDPAKDPCLMKCSRHKVCIAQDSQTAVCISHRRLTHR  
MKEAGVDHRQWRGPILSTCKQCPVVYPSPVCGSDGHTYSFQCKLEYQACVLGKQISVKCE  
GHCPSPDKPTSTSRNVKRACSDLEFREVANRLRDWFKALHESGSQNKTKTLRPERSR  
FDTSILPICKDSLGMFNRDLTDNYDLLDQSELRSIYLDKNEQCTKAFFNSCDTYKDSLI  
SNNEWCYCFQRQDPPCQTELSNIQKRQGVKKLLGQYIPLCEDGGYKPTQCHGSVGGCW  
CVDRYGNEVMGSRINGVADCAIDFEISGDFASGDFHEWTDDEDEDDIMNDEDEIEDDDE  
DEGDDDDGGDDHDVYI

>sp|Q96CG3|TIFA\_HUMAN TRAF-interacting protein with FHA domain-containing protein A  
OS=Homo sapiens GN=TIFA PE=1 SV=1

MTSFEDADTEETVTCQMTVYHPGQLQCGIFQSISFNREKLPSSEVVKFGRNSNICHYTF  
QDKQVSRVQFSLQLFKFNSSVLSFEIKNMSKKTNLIVDSRELGYLNKMDLPYRCMVRFG  
EYQFLMEKEDGESLEFFETQFILSPRSLQENNWPPHRIPEYGTYSLCSSQSSSPTEMD  
ENES

>sp|Q53EQ6|TIGD5\_HUMAN Tigger transposable element-derived protein 5 OS=Homo sapiens  
GN=TIGD5 PE=1 SV=3



MYPAGPPAGPVPRRGRRLPGPPAPAPVPAARPPPPAPGPRPRVAVKMAFRKAYSIKD  
KLQAIERVKGGGERQASVCRDFGVPGGTLRGWLKDEPKLRWFLEQLGGEVGTQRKKMRLAN  
EEEIDRAVYAWFLALRQHGVPLSGPLIQAQAEAFARQIYGPECTFKASHGWFWRWQKRHG  
ISSQRFYGEAGPPAPSPAGPPVKEEPALPSGAGPLPDRAPAPPPPAEGGYGDEQIYSAS  
VTGLYWKLLPEQAAPPAGAGDPGAGGCGRRWRGDRVTVLLAANLTGSHKLKPLVIGRLPDP  
PSLRHHNQDKFPASYRYSPTDAWLSRPLLRGWFFEEFVPGVKRYLRRSCLQQKAVLLVAHP  
PCPSPAASMPALDSEDAPVRCRPEPLGPPEELQTPDGAVRVLFSLKSSRAHIPAPLEQG  
VVAAFKQLYKRELLRLAVSCASGSPLDFMRSFMLKDMLYLAGLSWDLVQAGSIERCWLLG  
LRAAFEP RPGEDSAGQPAQAEAAEHSRVLSDLTHLAALAYKCLAPEEVAEWLHDDGG  
PPEGCREEVGPALPPAAPPAPASLPSAMGGGEDEEEATDYGGTSVPTAGEAVRGLETALR  
WLENQDPREVGPLRLVQLRSLISMARRLGGIGHTPAGPYDGV

>sp|Q86V40|TIKI1\_HUMAN Metalloprotease TIKI1 OS=Homo sapiens GN=TRABD2A PE=2 SV=3

MSPWSWFLQLTCLLPTGAASRRGAPGTANCELKPQQSELNSFLWTIKRDPPSYFFGTIH  
VPYTRVWDFIPDSKEAFLQSSIVYFELDLTDPYTISALTSCQMLPQGENLQDVLPRDIY  
CRLKRHLEYVKLMPLWMTDPQRGKGLYADYLFNAIAGNWERKRPVWMLMVNSLTEVDI  
KSRGVPVLDLFLAQEAERLRKQTGAVEKVEEQCHPLNGLNFSQVIFALNQTLQQESLRA  
GSLQIPYTTEDLIKHYNCGDLSSVILSHDSSQVPNFINATLPQERITAQEIDSYLREL  
IYKRNERIGKRVKALLEFPDKGFFFAFGAGHFMGNNTVLDVLRREGYEVEHAPAGRPIH  
KGKSKKTSTRPTLSTIFAPKVPTLEVPAPAEVSSGHSTLPPLVSRPGSADTPSEAEQRFR  
KKRRRSQRRPRLRQFSDLWVRLEESDIVQLQVPVLDRHISTELRLPRRGSHHSQMVAS  
SACLSLWTPVFWVLVLAFTETPLL

>sp|A6NGC4|TLCD2\_HUMAN TLC domain-containing protein 2 OS=Homo sapiens GN=TLCD2 PE=3 SV=3

MAPTGLLVAGASFLAFRGLHWGLRRLPTPESAARDRWQWWNLVSLAHSLLSGTGALLGL  
SLYPQMAADPIHGHPRWALVLVAVSVGYFLADGADLLWNQTLGKTWDLCHHLVVVSCLS  
TAVLSGHYVGFMSVSLLELNSACLHLRKLKLLSRQAPSLAFSVTSWASLATLALFRLVP  
LGWMSLWLFQRHHQVPLALVTLGGIGLVTVGIMSIIILGIRILVNDVLQSRPHPPSPGHEK  
TRGTRTRRDNGPVTNSNSTLSLKD

>sp|A0PJX2|TLDC2\_HUMAN TLD domain-containing protein 2 OS=Homo sapiens GN=TLDC2 PE=2 SV=1

MRGLRWRYTRLPSQVEDTLSGEENEEEEEAAPDPAAAPEDPTVPQLTEASQVLSASE  
IRQLSFHFPPRVTGHPWSLVFCTSRDGFSLQSLYRRMEGCSGPVLLVLRDQDQIFGAFS  
SSAIRLSKGFYGTGETFLFSFSPQLKVFKWTGSNSFFVKGDLDLMMGSGSGRFGWLWDG  
DLFRGGSSPCPTFNNEVLARQEFCIQELEAWLLS

>sp|Q9Y490|TLN1\_HUMAN Talin-1 OS=Homo sapiens GN=TLN1 PE=1 SV=3

MVALSLKISIGNVVKTMQFEPSTMVYDACRIIRERIPEAPAGPPSDFGLFLSDDDPKKG  
WLEAGKALDYMLRNGDTMEYRKKQRPLKIRMLDGTVKTIMVDDSKTVTDLMTICARIG  
ITNHDEYSLVRELMEEKKEEITGTLRKDKTLRDEKKMEKLKQKLHTDDELNWLHDGRTL  
REQGVEEHETLLRRKFFYSDQNVDSDRPVQLNLLYVQARDDILNGSHPVSFDKACEFAG  
FQCQIQFGPHNEQKHKAGFLDLKDFLPKEYVKQKGERKIFQAHKNCQMSEIEAKVRYVK  
LARSLKTYGVSFVLVKEKMGKNKLVPRLLGITKECVMRVDEKTKEVIQEWNLNLIKRW  
ASPKSFTLDFGDYQDGYYSVQTTEGEQIAQLIAGYIDIILKKKSKDHFLEGDEESTML  
EDSVSPKKSTVLQQYNRVGKVEHGSVALPAIMRSGASGPENFQVGSMPPAQQQITSGQM  
HRGHMPPLTSAQQALTGTINSSMQAVQAAQATLDDFDLPLPGQDAASKAWRKNKMD  
HEIHSQVDAITAGTASVVNLTAGDPAETDYTAVGCAVTTISSNLTEMSRGVKLLA  
ALLED  
EGSGRPLLQAAKGLAGAVSELLRSAQPASAEPRQNLLQAAGNVGQASGELLQQIGESDT

DPHFQDALMQLAKAVASAAAALVLKAKSVAQRTEDSGLQTQVIAAATQCALSTSSQLVACT  
KVVAPTISSPVCQEQLVEAGRLVAKAVEGCVSASQAATEDGQLLRGVGAAATAVTQALNE  
LLQHVKAHATGAGPAGRYDQATDTILTVTENIFSSMGDAGEMVRQARILAQATSDLVNAI  
KADAEGESDLENSRKLKLSAAKILADATAKMVEAAKGAAHPDSEEQQQLREAAEGLRMA  
TNAAAQNAIKKKLVQRLEHAAKQAAAASATQTIAAAQHAASPKASAGPQPLLVSCKAVA  
EQIPLLVQGVRSQAQPDSPSAQLALIAASQSFLQPGGKMVAAKASVPTIQDQASAMQL  
SQCAKNLGTALAE LR TAAQKAQEACGPLEMDSALSVVQNLEKDLQEVKAAARDGKLKPLP  
GETMEKCTQDLGNSTKAVSSAIAQLLGEVAQGNENYAGIAARDVAGGLRSLAQAARGVAA  
LTSDPAVQAIVLDTASDVLKASSLIEEAKKAAGHPGDPESQQLRAQVAKAVTQALNRCV  
SCLPGQRDVDNALRAVGDAKRLSDSLPPSTGTGFQEAQSRLNEAAAGLNQAATELVQAS  
RGTPQDLARASGRFGQDFSTFLEAGVEMAGQAPSQEDRAQVVSNLKGISMSSSKLLLA  
ALSTDPAPNLKSQLAAAAARAVTDSINQLITMCTQQAPGQKECDNALRELETVRELLENP  
VQPINDMSYFGCLDSVMENSKVLGEAMTGISQNAKNGNLPEFGDAISTASKALCGFTEAA  
AQAAAYLVGVSDPNSQAGQQLVEPTQFARANQAIQMACQSLGEPGCTQAQVLSAATIVAK  
HTSALCNSCRLASARTTNPTAKRQFVQSAKEVANSTANLVKTIKALDGAFTENRAQCRA  
ATAPLLEAVDNLASFASNPEFSSIPAQISPEGRAAMEPIVISAKTMLLESAGGLIQ TARAL  
AVNPRDPPSWSVLAGHSRTVSDSIKKLITSMRDKAPGQLECE TAI AALNSCLRDLDQASL  
AAVSQQLAPREGISQEALHTQMLTAVQEISHLIEPLANAARAEASQLGHKVSQMAQYFEP  
LTLAAVGAASKTLSHPQQMALLDQTKTLAESALQLLYTAKEAGGNPKQAAHTQEAL EEAV  
QMMTEAVEDLTTTLNEAASAAGVVGGMVDSITQAINQLDEGPMGEPEGSFVDYQTTMVRT  
AKAIAVTVQEMVTKSNTSPEELGPLANQLTSDYGR LASEAKPAAVA AENEEIGSHIKHRV  
QELGHGCAALVTKAGALQCSPSDAYTKKELIECARRVSEKVSHVLAALQAGNRGTQACIT  
AASAVSGIIADLDTT IMFATAGTLNREGTETFADHREGILKTAKVLVEDTKVLVQNAAGS  
QEKLAQAAQSSVATITRLADVVKLGAASLGAEDPETQVVLINAVKDVAKALGDLISATKA  
AAGKVGDDPAVWQLKNSAKVMVTNVTSLKTKVAVEDEATKGTRALEATTEHIRQELAVF  
CSPEPPAKTSTPEDFIRMTKGITMATAKAVAAGNSCRQEDVIATANLSRRAIADMLRACK  
EAAYHPEVAPDVRLRALHYGRECANGYLELLDHVLLTLQKPSPELKQQLTGHSKRVAGSV  
TELIQAAEAMKGTEWVPEDPTVIAENELLGAAAAIEAAAKKLEQLKPRAPKPEADESLN  
FEEQILEAAKSIAAATSALVKAASAAQRELVAQGKVGAIPANALDDGQWSQGLISAARMV  
AAATNNLCEAANA AVQGHASQEKLISSAKQVAASTAQLLVACKVKADQDSEAMKRLQAAG  
NAVKRASDNLVKAQAQAAAFEEQENETVVVKEKMGVGGIAQIIAAQEEMLRKERELEEARK  
KLAQIRQQQYKFLPSELRDEH

>sp|Q9BXR5|TLR10\_HUMAN Toll-like receptor 10 OS=Homo sapiens GN=TLR10 PE=1 SV=2

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLL  
FQLQSSDFHVSVKLRVLILCHNRIQQLDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLR  
YLDLSFNDFDTMPICEEAGNM SHLEILGLSGAKIQKSDFQKIAHLHLNTVFLGFRTLPHY  
EEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDGKSQFVSYEMQRNLSLE  
NAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDYSNTVMR  
TIKLEHVHFRVFYIQQDKIYLLLTKMDIENLTISNAQMPHMLFPNYPTKFQYLN FANNIL  
TDELFKRTIQPLHLKTLILNGNKLETLSLVSCFANNTPLEHLDSLQNLQHKNDENCSWP  
ETVVMNLSYNKLSDSVFRCLPKSIQILD LNNNIQTVPKETIHLMALRELNIAFNFLTD  
LPGCSHF SRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFRCTCELKNFIQLETYS  
EVMVGWSDSYTCEYPLNLRGTRLKDVHLHELSCNTALLIVTIVVIMLVGLAVAFCC LH  
FDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKED

GSILICLYESYFDPGKSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAHHNLFHE  
NSDHIIILILEPIPFYCIPTRYHKLKALLEKKAYLEWPKDRRKCGLFWANLRAAINVNVL  
ATREMYELQTFTELNEESRGSTISLMRTDCL

>sp|Q15399|TLR1\_HUMAN Toll-like receptor 1 OS=Homo sapiens GN=TLR1 PE=1 SV=3

MTSIFHFAIIFMLILQIRIQLSESEFLVDRSKNGLIHVPKDLQKTTILNISQNYISEL  
WTSIDILSLSKLRILIIISHNRIQYLDISVFKFNQELEYLDLSHNKLVKISCHPTVNLKHL  
LSFNAFDALPICKEFGNMSQLKFLGLSTTHLEKSSVLPPIAHLNISKVLLVLGETYGEKED  
PEGLQDFNTESLHIVFPTNKEFHFILDVSVKTVANLELSNIKCVLEDNKCSYFLSILAKL  
QTNPKLSNLTLNNIETTWSNFIRILQLVWHTTVWYFSISNVKLQGGDFRDFDYSGTSLK  
ALSIHQVVSDFGFPQSYIIEIFSNMNIKNFTVSGTRMVHMLCPSKISPFLHLDIFSNNLL  
TDTVFENCGLTELETLILQMNQLKELSKIAEMTTQMKSLQQLDISQNSVSYDEKKGDCS  
WTKSLLSLNMSSNLTDTIFRCLPPRIKVLDLHSNKIKSIPKQVVKLEALQELNVAFNSL  
TDLPGCGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNPFQCTCELGEFVKNID  
QVSSEVLEGWPDYSYKCDYPESYRGTTLLKDFHMSSELSNITLLIVTIVATMLVLAVTVTSL  
CSYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSGHDSFWVKNE LLPNLE  
KEGMQICLHERNFVPGKSIVENIITCIEKSYKSIFVLSPNFVQSEWCHYELYFAHHNLFH  
EGSNSLILILEPIPQYSIPSSYHKLSLMARRTYLEWPKEKSKRGLFWANLRAAINIKL  
TEQAKK

>sp|P31314|TLX1\_HUMAN T-cell leukemia homeobox protein 1 OS=Homo sapiens GN=TLX1 PE=1  
SV=1

MEHLGPHHLHPGHAEPISFGIDQILNSPDQGGCMGPASRLQDGEYGLGCLVGGAYTYGGG  
GSAAATGAGGAGAYGTGGPGGPGGAGGGGACSMGPLTGSYNVNMALAGGPGGGGGSS  
GGAGALSAAGVIRVPAHRPLAGAVHPQPLATGLPTVPSVPAMPGVNNLTGLTFPWME  
SNRRYTKDRFTGHPYQNRTPPKKKKPRTSFTRLQICELEKRFHRQKYLASAERAALAKAL  
KMTDAQVKTWFQNRRTKWRRTAEEREAEERQQANRILLQLQGEAFQKSLAQPLPADPL  
CVHNSLQALQNLQPWSDSTKITSVTSVASACE

>sp|A8MYB1|TMC5B\_HUMAN Transmembrane and coiled-coil domain-containing protein 5B OS=Homo  
sapiens GN=TMC5B PE=3 SV=1

MEDVGQNPLDDVKNIFFASSLEAVKQNLDCNSDLEKDLQKLDMENQVLLRKIKEKEETI  
SSLERKLALSLEEAKEEEEELNYVIDEQEESLRELELETAKLEKSNILSRNVVEVQKKIS  
GLFTNIGLEEETTKQILEEMKARLQKSTESCAKQEEELAKIESDYQSVSDLCKDQVYYIK  
KYQEVLRLKMKEEKETLLLEKQISKAQDDSSQTVKPGSILADTTQRNMERTTIKKQERRCW  
YKYFQYLTFMVLVFIIRLLAYVIFHLQYINPDLLVDVLPVLVSRGTLESRLKVSHPFL  
TLAVEEALPH

>sp|Q8IU68|TMC8\_HUMAN Transmembrane channel-like protein 8 OS=Homo sapiens GN=TMC8 PE=1  
SV=1

MLLPRSVSSERAPGVPEPEELWEAEMERLRGSGTPVRGLPYAMMDKRLIWQLREPAGVQT  
LRWQRWQRRRQTVERRLREAAQLARGLGLWEGALYEIGGLFGTGIRSYFTFLRLLLLN  
LLSLLLTA SFVLLPLVLRPPDPGPTLNLTLCQPGSRQSPPGVLRFHNLWHVLTGRAFT  
NTYLFYGAYRVGPSSSVYSIRLAYLLSPLACLLLCFCGTLRRMVKGLPQKTLLGQGYQA  
PLSAKFSSWDFCIRVQEAATIKKHEISNEFKVELEEGRRFQLMQQQTAAQTACRLLSYL  
RVNVLNGLLVGAISAIFWATKYSQDNKEESLFLLLQYLPBGVIALVNFLGPLLFTFLVQ  
LENYPNTEVNLTLIWCVVLLKASLGMFVSLGQTILCIGRDKSSCESYGYNVCDYQCWE  
NSVGEELYKLSIFNFLTVAFAFLVTLPRLLVDRFSGRFWAWLEREEFLVPKNVLDIVA

GQTVTWMGLFYCPLPLLLNSVFLFLTIFYIKKYTLLKNSRASSRPFRASSSTFFFQLVLLL  
GLLLAAVPLGYVVSIIHSSWDCGLFTNYSAPWQVVPPELVALGLPPIGQRALHYLGSHAFS  
FPLLIMLSLVLTVCVSQTQANARAIHRLRKQLVWQVQEKWHLVEDLSRLLPEPGPSDSPG  
PKYPASQASRPQSFPCGPCPGSPGHQAPRPGPSVDAAGLRSPCPGQHGAPASARRFRF  
PSGAEL

>sp|094876|TMCC1\_HUMAN Transmembrane and coiled-coil domains protein 1 OS=Homo sapiens  
GN=TMCC1 PE=1 SV=3

MEPSGSEQLFEDPDPGGKSQDAEARKQTESEQKLSKMTNNALENINVIGQLKHLFQHQR  
RRSSVSPHDVQQIQADPEPEMDLESQNACAEIDGVPTHPTALNRVLQQIRVPPKMKRGTS  
LHSRRGKPEAPKQSPQINRKSGQEMTAVMQSGRPRSSTTDAPTSSAMMEIACAAAAAAA  
ACLPGEEGTAEIERLEVSSLAQTSSAVASSTDGSIHTDSVDGTPDPQRTKAAIAHLQKK  
ILKLTEQIKIAQTARDDNVAEYKLANSADKQQAARIKQVFEKKNQKSAQTILQLQKKLE  
HYHRKLREVEQNGIPRQPKDVFRDMHQGLKDVGAKVTGFSEGVVDSVKGGFSSFSQATHS  
AAGAVVSKPREIASLIRNKFSGADNIPNLKDSLEEGQVDDAGKALGVISNFQSSPKYGSE  
EDCSSATSGSVGANSTTGGIAGVASSKTNTLDMQSSGFDALLHEIQEIRETQARLEESF  
ETLKEHYQRDYSLIMQTLQEERYRCERLEEQLNDLTELHQNEILNLKQELASMEEKIAYQ  
SYERARDIQEALACQTRISKMELQQQQQQVVQLEGLNATARNLLGKLINILLAVMAVL  
LVFVSTVANCVVPLMKTRNRTFSTLFLVVFIAFLWKHWDALFSYVERFFSSPR

>sp|Q9ULZ0|T53G3\_HUMAN TP53-target gene 3 protein OS=Homo sapiens GN=TP53TG3 PE=2 SV=1

MRASPCISQPAASWHPRPSALRPTAGSGPDTRTPGTVEDGSAPCPAFRSPAVSPCGEEPC  
CFQISPAEETLELGRVSPGNCDTLPRAAGFYACHVRSILPCRSTKGRWPLTASAAGLS  
RHAQCGPSLGLG

>sp|Q9Y3F1|TA6P\_HUMAN Putative TAP2-associated 6.5 kDa polypeptide OS=Homo sapiens PE=5  
SV=1

MSLLWTPQILTISFVSYILSLFSPFPSCYTSCWFETSITTEKELNQYFELAKFLA

>sp|Q9P1P5|TAAR2\_HUMAN Trace amine-associated receptor 2 OS=Homo sapiens GN=TAAR2 PE=2  
SV=2

MAVSSEQHELSHFKRTQTKKEKFNCEYGNRSCPENERSLGVRVAMYSFMAGSIFITIFG  
NLAMIISISYFKQLHTPTNFLILSMAITDFLLGFTIMPYSMIRSVENCWYFGLTFCKIYY  
SFDLMLSITSIFHLCSVAIDRFYAICYPLLYSTKITIPVIKRLLLLCWSVPGAFAGVVF  
SEAYADGIEGYDILVACSSSCPVMFNKLWGTTLFMAGFFTPGSMVGIIYKIFAVSRKHA  
HAINNLRENQNNQVKDKKAAKTLGIVIGVFLLCWFPCFFTILLDPFLNFSTPVVLFDAL  
TWFGYFNSTCNPLIYGFFYPWFRRALKYILLGKIFSSCFHNTILCMQKESE

>sp|Q8N9U0|TAC2N\_HUMAN Tandem C2 domains nuclear protein OS=Homo sapiens GN=TC2N PE=1  
SV=2

MATEFIKSCCGGCFYGETEKHNFSVERDFKAAVPNSQNATISVPPLTSVSVKPKQLGCTED  
YLLSKLPSDGKEVPFVVPKFKLSYIQPRTQETPSHLEELGSGARASFGDRKVELSSSSQH  
GPSYDVYNPFYMYQHISPDLSRRFPFRSEVKRLYGVCDLRTNKLPGSPGLSKSMFDLTN  
SSQRFIQRHDSLSSVPSSSSSRKNSQGSNRSLDTITLSGDERDFGRLNVKLFYNSSVEQI  
WITVLQCRDLSWPSSYGDTPTVSIKILTLPKPVHFKSSAKEGSNAIEFMETFVFAIKLQ  
NLQTVRLVFKIQTQTPRKKTIGECMSLRTLSTQEMDYSLDITPPSKISVCHAELELGTC  
FQAVNSRIQLQILEARYLPSSSTPLTSLFFVKVGMFSSGELIYKKKTRLLKASNGRVKVG  
ETMIFPLIQSEKEIVFLIKLYSRSSVRRKHFGQIWIWSEDSNNEAVNQWKETVINPEKV  
VIRWHKLNPS



SNALKRKREDDDDDDDDDDYDNL

>sp|P37802|TAGL2\_HUMAN Transgelin-2 OS=Homo sapiens GN=TAGLN2 PE=1 SV=3

MANRGPAYGLSREVQQKIEKQYDADLEQILIQWITTQCRKDVGRPPGRENFNWLKDG  
VLCELINALYPEGQAPVKIKASTMAFKQMEQISQFLQAAERYGINTTDIFQTVDLWEGK  
NMACVQRTLMLNLGGLAVARDDGLFSGDPNWFPPKSKENPRNFSNQLQEGKNVIGLQMG  
NRGASQAGMTGYGMPRQIL

>sp|Q96BW9|TAM41\_HUMAN Phosphatidate cytidyltransferase, mitochondrial OS=Homo sapiens  
GN=TAMM41 PE=1 SV=2

MALQTLQSSWVTRFKILSHFPEELSLAFVYSGVYRQAGPSSDQKNAMLDVFVTVDDPVA  
WHSKNLKKNSHYSFLKVLGPKIITSIQNNYAGVYYNSLIMCNGRLIKYGVISTNVLIE  
DLLNWNLYIAGRLQKPKIISVNEDVTLRSALDRNLKSAVTA AFLMLPESFSEEDLFIE  
IAGLSYSGDFRMVVGEDKTKVLNIVKPNIAHFRELYGSILQENPQVVYKSQQGWLEIDKS  
PEGQFTQLMTLPKTLQQQINHIMPPGKNRDVEETLFQVAHDPDCGDVVRLGLSAIVRPS  
SIRQSTKGIFTAGKSFGNPCVTYLLTEWLPHSWLQCKALYLLGACEMLSFDGHKLGYSK  
VQTGITAAEPGGRTMSDHWCCWKLYCPSEFSETLPVCRVFPSCFYQSYRCIGLQKQQ  
HLCSPSSSPSLRQLLPSVLVGYFCCYCHFSKW

>sp|Q9HCD6|TANC2\_HUMAN Protein TANC2 OS=Homo sapiens GN=TANC2 PE=1 SV=3

MFRNSLKMLLTGGKSSRKNRSSDGGSEPPDRRQSSVDSRQSRSGGGISTESDCAFEPD  
YAVPPLPVSEGDAEQELGPPPSVDEAANTLMTRLGFLLEKVTQPGDQYSMEVQDENQ  
TSAITQRISPCSTLTSSTASPPASSPCSTLPPISTNATAKDCSYGAVTSPTSTLESRDSG  
IATLTSYSENVERTKYAGESSKELGSGGNIPWQSQKSSMDSCLYRVNMTASTYSLN  
KIPERNLETVLSQSVQSIPLYLMPRPNSVAATSSAHLEDLAYLDEQRHTPLRTSLRMPRQ  
SMGGARTQQDLRVRFAPYRPPDISLKPLLFEVPSITTESVFVGRDWFHEIDAQLQSSNA  
SVNQGVVIVGNIGFGKTAIISRLVALSCHGTRMRQIASDSPHASPKHVDANRELPLTQPP  
SAHSSITSGSCPGTPEMRRRQEEAMRRLASQVVAYHYCQADNAYTCLVPEFVHNVAALLC  
RSPQLTAYREQLLREPHLQSMLSLRSCVQDPMASFRRGVLEPLENLHKKRIPDEDFIIL  
IDGLNEAEFHKPDYGDITVFLSKMIGKFPWLKLIIVTVRTSLQEITKLLPFHRIFLDRL  
EENEIDQDLQAYILHRIHSSSEIQNNISLNGKMDNTTFGLSSHLKTLQGSYLKLT  
FDLIEKGYLVKSSSYKVVPVSLSEVYLLQCNMKFPTQSSFDRVMPLLNVAVASLHPLTD  
EHIFQAINAGSIEGTLEWEDFQQRMENLSMFLIKRRDMTRMFVHPSFREWLWREEGEKT  
KFLCDPRSGHTLLAFWFSRQEGKLNRRQTIELGHHILKAHIFKGLSKKVGVSILQGLW  
ISYSTEGLSMALASRLNLYTPNIKVSRLILGGANINYRTEVLNNAIPILCVQSHLGYTEM  
VALLLEFGANVDASSESGLTPLGYAAAAGYLSIVVLLCKKRAKVDHLDKNGQCALVHAAL  
RGHLEVVKFLIQCDWTMAGQQQGVFKKSHAIQQALIAAASMGYTEIVSYLLDLPEKDEEE  
VERAQINSFDSLWGETALTAAGRGKLEVCRLLEQGAAVAQPNRRGAVPLFSTVRQGHW  
QIVDLLLLTHGADVNMAKQGRTPLMMAASEGHLGTVDFLLAQGASIALMDKEGLTALSWA  
CLKGHLSSVVRSLVDNGAATDHADKNGRTPLDLAAFYGDAEVVQFLVDHGAMIEHVDYSGM  
RPLDRAVGCNRTSVVVTLLKKGAKIGPATWAMATSKPDIMIILLSKLMEEGDMFYKKGKV  
KEAAQRYQYALKKFPREGFGEDLKTRELKVSLLLNLSCRRKMNDFGMAEEFATKALEL  
KPKSYEAYYARARAKRSSRQFAAALEDLNEAIKLCNNREIQRLLLRVEEECRMQQPQQ  
PPPPPQQQQLPAAEPQPHEDIYSVQDIFEEYLEQDVENVSIGLQTEARPSQGLPVI  
QSPSSPPHRDSAYISSPLGSHQVDFRSSSSVSGSPTRQTYQSTSPALSPTHQNSHYRP  
SPPHTSPAHQGGSYRFSPPPVGGQGKEYSPPPSPLRGPQYRASPPAESMSVYRSQSGS  
PVRYQQETSVSQLPGRPKSPLSKMAQRPYQMPQLPVAVPQQGLRLQPAKAQIVRSNQPS

AVHSSTVIPTGAYGQVAHSMASKYQSSQGDIGVSQSRLVYQGSIGGIVGDGRPVQHVQAS  
LSAGAICQHGGTLTKEDLPQRPSAYRGGVRYSTPQIGRSQASYYPVCHSKDLERSSS  
QLGSPDVSHLIRRPISVNPNEIKPHPPTPRPLLHSQSVGLRFSPSSNSISSTSNLTPTFR  
PSSSIQMEIPLKPAYERSCDESPVSPTQGGYPSEPTRSRTTPFMGIIDKTARTQQYPH  
LHQQNRTWAVSSVDTVLSPTSPGNLPQPESFSPSSISNIAFYNKTNNAQNGHLEDDYY  
SPHGMLANGSRGDLLEVRVSQASSYPDVKVARTLPVAQAYQDNLYRQLSRDSRQGQTSPIK  
PKRPFVESNV

>sp|Q92844|TANK\_HUMAN TRAF family member-associated NF-kappa-B activator OS=Homo sapiens  
GN=TANK PE=1 SV=2

MDKNIGEQLNKAYEAFRQACMDRDSAVKELQQKTENYEQRIREQQEQLSLQQTIIDKLKS  
QLLLVNSTQDNNYGCVPILLEDSETRKNNLTLDQPQDKVISGIAREKLPKVRREQEVSSPRK  
ETSARSLGSPLLHERGNIEKTFWDLKEEFHKICMLAKAQKDHL SKLNIPDTATETQCSVP  
IQCTDKTDKQEALFKPQAKDDINRGAPSITSVTPRGLCRDEEDTSFESLSKFNVKFPPMD  
NDSTFLHSTPERPILSPATSEAVCQEKFNMEFRDNPGNFVKTEETLFEIQGIDPIASAI  
QNLKTTDKTKPSNLVNTCIRTLDRAACLPPGDHNALVNSFPLLDPSDAPFPLDSPGK  
AIRGPQQPIWKFPFNQSDSVVLSGTDSELHIPRVCEFCQAVFPPSITSRGDFLRHLNSH  
FNGET

>sp|P10636|TAU\_HUMAN Microtubule-associated protein tau OS=Homo sapiens GN=MAPT PE=1 SV=5

MAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPLQPTEDGSEEPG  
SETSDAKSTPTAEDVTAPLVDEGAPGKQAAQPHTEIPEGTTAEAGIGDTPSLEDEAAG  
HVTQEPESGKVVQEGFLREPGPPGLSHQLMSGMPGAPLLPEGPREATRQPSGTGPEDTEG  
GRHAPELLKHQLLGDLHQEGPPLKGAGGKERPGSKEEVDEDRDVESSPQDSPPSKASPA  
QDGRPPQTAAREATSIPGFPAEGA IPLPVDFLSKVSTEIPASEPDGPSVGRAKGQDAPLE  
FTFHVEITPNVQKEQAHSEHLGRAAFPGAPGEGPEARPSLGEDTKEADLPEPSEKQPA  
AAPRGKPVSRVPQLKARMVSKSKDGTGSDDKKAKTSTRSSAKTLKNRPCLSPKHPTPGSS  
DPLIQSSPAVCPEPPSSPKYVSSVTSRTGSSGAKEMKLKADGKTKIATPRGAAPPQK  
GQANATRIPAKTPAPKTPSSGEPPKSGDRSGYSSPGSPGTPGSRRTPSLPTPTREP  
KKVAVVRTPPKSPSSAKSRLQTAPVPMPLDNVSKIGSTENLKHQPGGGKVQIINKKLD  
LSNVQSKCGSKDNIKHVPGGGSQIVYKPVDSLKVTSKCGSLGNIHHKPGGGQVEVKSEK  
LDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVS GDT  
SPRHLSNVSSSTGSIDMVDSPQLATLADEV SASLAKQL

>sp|Q4KMP7|TB10B\_HUMAN TBC1 domain family member 10B OS=Homo sapiens GN=TBC1D10B PE=1  
SV=3

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AWVPGSAETSAPAPAPAPAPAVTGSTVVVLTLEASPEAPKQLPSGPESPEPAAVAGV  
ETSRALAAGADSPKTEEARPSAPGPGTPTGTPTRTPSRTAPGALTAKPPLAPKPGTTVA  
SGVTARSASGQVTGGHGAATAASAGQAPEDPSGPGTGPSGTCEAPVAVVTVTPAPEPA  
ENSQDLGSTSSLGPGISGRGQAPDTLSYLDVSLMSGTLES LADDVSSMGSDSEINGLA  
LRKTDKYGFLGGSQYSGSLESSIPVDVARQRELKWLDMFSNWDKWL SRRFQKVLCRCRKG  
IPSSLRAKAWQYLSNSKELLEQNPGKFEELERAPGDPKWL DVEKD LHRQFPFHEMFAAR  
GGHGQQDLYRILKAYTIYRPDEGYCQAQAPVA AVLMMHPAEQAFWCLVQICDKYLP GYY  
SAGLEAIQLDGEIFFALLRRASPLAHRHLRRQRIDPVLYMTEWFMCIFARTLPWASVLRV  
WDMFFCEGVKIIFRVALVLLRHTLGSVEKL RSCQGMETMEQLRNLPQQCMQEDFLVHEV  
TNLPVTEALIERENAAQLKKWRETRGELQYRPSRRLHGSRAIHEERRRQQPPLGPSSSLL

SLPGLKSRGSRAAGGAPSPPPPVRASAGPAPGPVVTAEGLHPSLPSPTGNSTPLGSSKE  
TRKQEKERQKQEKERQKQEKEREKERQKQEKEREKQEKEREKQEKERQKQEKKAQGRKLS  
LRRKADGPPPHDGGDRPSAEARQDAYF

>sp|Q13748|TBA3C\_HUMAN Tubulin alpha-3C/D chain OS=Homo sapiens GN=TUBA3C PE=1 SV=3  
MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGK  
HVPRAVFVDLEPTVVDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIVDLVLD  
RIRKLADLCTGLQGFLIFHSFGGGTGSGFASLLMERLSVDYGKSKLEFAIYPAPQVSTA  
VVEPYNSILTTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLNLIGQIVSSITA  
SLRFDGALNVDLTEFQTNLVPYPRIHFLATYAPVISAEKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYMCCMLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPP  
TVVPGDLAKVQRAVCMLSNNTTAAEAWARLDHKFDLMYAKRAFVHVYVGEEMEEGEFSE  
AREDLAALEKDYEEVGVDSEAEAEEGEEY

>sp|P07437|TBB5\_HUMAN Tubulin beta chain OS=Homo sapiens GN=TUBB PE=1 SV=2  
MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYV  
PRAILDLEPGTMDSVRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVV  
RKEAESCDCLQGFQLTHSLGGGTGSGMGTLISKIREEYPDRIMNTFSVVPSPKVS DTVV  
EPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPPTYGDLNHLVSATMSGVTTCL  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTPELTQQVFDAKNMM  
AACDPRHGRYLTVA AVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRG  
LKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
EYQQYQDATAEEEEDFGEEAEAAA

>sp|Q9BUF5|TBB6\_HUMAN Tubulin beta-6 chain OS=Homo sapiens GN=TUBB6 PE=1 SV=1  
MREIVHIQAGQCGNQIGTKFWEVISDEHGIDPAGGYVGDSALQLERINVYNESSSQKYV  
PRAALVDLEPGTMDSVRSGPFGQLFRPDNFI FGQTGAGNNWAKGHYTEGAELVDAVLDDV  
RKECEHCDCLQGFQLTHSLGGGTGSGMGTLISKIREEFDRIMNTFSVMPSPKVS DTVV  
EPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPPTYGDLNHLVSATMSGVTTSL  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTPELTQQMFDARNMM  
AACDPRHGRYLTVA TVFRGPMSMKEVDEQMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRG  
LKMASTFIGNSTAIQELFKRISEQFSAMFRRKAFLHWFTGEGMDEMEFTEAESNMNDLVS  
EYQQYQDATANDGEEAFEDDEEEIDG

>sp|Q9HA65|TBC17\_HUMAN TBC1 domain family member 17 OS=Homo sapiens GN=TBC1D17 PE=1 SV=2  
MEGAGYRVVFEKGGVYLHTSAKKYQDRDSL IAGVIRVVEKDNDVLLHWAPVEEAGDSTQI  
LFSKKDSSGGDSCASEEEPTFDPDYEPDWA VISTVRPQLCHSEPTRGAEPSCPQGSWAFS  
VSLGELKSIRRSKPLSWAYLVLTQAGGSLPALHFHRRGGTRALLRVLSRYLLASSPQD  
SRLYLVPDSSALSNSFHHLQLFDQDSSNVVSRFLQDPYSTTFSSFSRVTNFFRGALQP  
QPEGAASDLPPPPDEPEPGFEVISCVELGPRPTVERGPPVTEEEWARHVGPEGRLQQVP  
ELKNRIFSGGLSPSLRREAWKFLGLYLSWEGTAEHKAHIRKKTDEYFRMKLQWKSVSPE  
QERRNSLLHGYRSLIERDVSRTDRTNKFYEGPENPGLGLLNDILLTYCMYHFDLGYVQGM  
SDLLSPILYVIQNEVDAFWCFGFMELVQGNFEESQETMKRQLGRLLLLLRVLDPLLCDF  
LDSQDSGSLCFCFRWLLIWFKREFPPFDVLRLEVLWTGLPGPNLHLLVACAILDMERDT  
LMLSGFGSNEILKHINELTMKLSVEDVLTAEALHRQLTACPELPHNVQEILGLAPPAEP  
HSPSPTASPLPLSPTRAPPTPPPSTDTAPQPDSSLEILPEEEDGADS

>sp|Q96BZ9|TBC20\_HUMAN TBC1 domain family member 20 OS=Homo sapiens GN=TBC1D20 PE=1 SV=1  
MALRSAQGDGPTSGHWDGGAEKADFNKRKKKVAEIHQALNSDPTDVAALRRMAISEGGL



LTDEIRRKVWPKLLNVNANDPPPISGKNLRQMSKDYQQVLLDVRRSLRRFPFGMPPEEQRE  
GLQEELIDIILLILERNPQLHYQGYHDIVVTFLLVVGERLATSLVEKLSTHHLRDFMDP  
TMDNTKHILNYLMPIDQVNPQLHDFMQSAEVTIFALSWLITWFGHVLSDFRHVVRLYD  
FFLACHPLMPIYFAAVIVLYREQEVLDCCDCMASVHHLLSQIPQDLPYETLISRAGDLFV  
QFPPSELAREAAAQQAERTAASTFKDFELASAQQRPDMVLRQFRGLLRPEDRTKDVLTK  
KPRTNRFVKLAVMGLTVALGAAALAVVKSALWAPKFQQLQFP

>sp|Q3MII6|TBC25\_HUMAN TBC1 domain family member 25 OS=Homo sapiens GN=TBC1D25 PE=1 SV=2  
MATASGASDLSGSGAPPPGVAQAAAAEEEEEREVVRVRVKKCESFLPPEFRSFAVDPQI  
TSLDVLQHILIRAFDLGSKKNFGISYLRDRDLGQEVYLSLLSDWDLSTAFATASKPYLQL  
RVDIRPSEDSPLLEDWDIISPDKVIGSDVLLAEKRSSLTTAALPFTQSILTQVGRTLSKV  
QQVLSWSYGEDVKKPPLSDAEFHTYLNHEGQLSRPEELRLRIYHGGVEPSLRKVVWRY  
LLNVYPDGLTGRERMDYMKRKSREYEQLKSEWAQRANPEDLEFIRSTVLKDVLRDRAHP  
YYAGPEDGPHLRALHDLTTYAVTHPQVSYCQGMSDLASPIAVMDHEGHAFVFCGIMK  
RLAANFHPDGRAMATKFAHLKLLLRHADPDFYQYLQEAGADDLFFCYRWLLELKREFAF  
DDALRMLEVTWSSLPDPPEHEVELVGPPSQVADAGFGGHRGWVVRQRHMLRPAGGGGST  
FEDAVDHLATASQGGGGRLLRQASLDGLQQLRDNMGSRDPLVQLPHPAALISSKSLS  
EPLNPSDPLSSFSHPDSPSSSSPSTQEASPTGDMAVGSPLMQEVGSPKDPGKSLPPV  
PPMGLPPPQEFGRGNPFMLFLCLAILLEHRDHIMRNGLDYNELAMHFDRLVRKHHLGRVL  
RRARALFADYLDSEVWDSEEGAEATAAS

>sp|A6NDS4|TBC3B\_HUMAN TBC1 domain family member 3B OS=Homo sapiens GN=TBC1D3B PE=2 SV=2  
MDVVEVAGSWWAQUEREDIMKYEKGHRAGLPEDKGPKPFRSYNNNVNDHLGIVHETELPPL  
TAREAKQIRREISRKSKWVDMLGWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEM  
KLKNPGRYQIMKEKGKRSEHIQRIDRDISGTLRKHMFFRDYRGTQRELLHILLAYEY  
NPEVGycrdLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTQGLQDQQE  
HVVATSQSKTMGHQDKDLGCGCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLP  
AKPEQGSSASRPVPASRGRKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDLVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSDQGTFFRARDEQQCAPTSGPCLCGLHL  
ESSQFPFPGF

>sp|AOA087WVF3|TBC3D\_HUMAN TBC1 domain family member 3D OS=Homo sapiens GN=TBC1D3D PE=2  
SV=1  
MDVVEVAGSWWAQUEREDIMKYEKGHRAGLPEDKGPKPFRSYNNNVNDHLGIVHETELPPL  
TAREAKQIRREISRKSKWVDMLGWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM  
KLKNPGRYQIMKEKGKRSEHIQRIDRDSVGTLRKHIFFRDYRGTQRELLHILLAYEY  
NPEVGycrdLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTQGLQDQQE  
HVVATSQPKTMGHQDKDLGCGCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLP  
AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDLVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSDQGTFFRARDEQQCAPTSGPCLCGLHL  
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>sp|AOA087WXS9|TBC3I\_HUMAN TBC1 domain family member 3I OS=Homo sapiens GN=TBC1D3I PE=3  
SV=1

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TAREAKQIRREISRKSKWVDMLGWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM  
KMKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEY  
NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLP  
AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDLDEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSDQGTFFRAREQQCAPTSGPCLCGLHL  
ESSQFPFPGF

>sp|075347|TBCA\_HUMAN Tubulin-specific chaperone A OS=Homo sapiens GN=TBCA PE=1 SV=3  
MADPRVRQIKIKTGVVKRLVKEKVMYEKEAKQEEKIEKMRAEDGENYDIKKQAEILQES  
RMMIPDCQRRLEAAAYLDLQRILENEKDL EEAEYKEARLVDSVKLEA

>sp|Q99426|TBCB\_HUMAN Tubulin-folding cofactor B OS=Homo sapiens GN=TBCB PE=1 SV=2  
MEVTGVSAPTVTVFISSSLNTRSEKRYSRSLTIAEFKCKLELLVGSPASCMELELYGVD  
DKFYSKLDQEDALLGSYPVDDGCRHVIDHSGARLGEYEDVSVEKYTISQEAYDQRQDT  
VRSFLKRSKLGRYNEEERAQQAEEAAQLAEKQAASSIPVGSRCVRAAGQSPRRGTV  
YVGLTDFKPGYWIGVRYDEPLGKNDGSVNGKRYFECQAKYGAFVKPAVTVGDFPEEDYG  
LDEI

>sp|Q9NVR7|TBCC1\_HUMAN TBCC domain-containing protein 1 OS=Homo sapiens GN=TBCCD1 PE=2  
SV=1

MDQSRVLLWVKAEPFIVGALQVPPPSKFSLHYLRKISTYVQIRATEGAYPRLYWSTWRHI  
ACGKLQAKDLAWLYFEIFDLSMKTPPEERLEWSEVLSNCMSEEEVEKQRNQLSVDTLQF  
LLFLYIQQLNKVSLRTSLIGEEWSPRNKSQSPDLTEKSNCHNKNWYSHQAFVYDHL  
DLLELLDPKQLTASFHSTHSSLVREAVVALSFLIEGTISRARKIYPLHELALWQPLHA  
DSGFSKISKTFSTFYKLETWLRSLTGNPFGTSACLKSGKKLAWAHQVEGTTKRAKACNT  
HVAPRMHRLVMSQVYKQTLAKSSDTLAGAHVKIHRCNESFIYLLSPLRSVTIEKCRNSI  
FVLGPVGTTLHLHSCDNVKVIAVCHRLSISSTTGCIHVLTPTPLILSGNQTVTFAPFH  
THYPMLEDHMARTGLATVPNYWDNPMVVCRENSTRVFQLLPCEFYVFIIPFEMEGDTT  
EIPGGLPSVYQKALGQREQKIQIWQKTVKEAHLTKDQRKQFQVLVENKFYEWLINTGHRQ  
QLDSLVPAAAGSKQAAG

>sp|060343|TBCD4\_HUMAN TBC1 domain family member 4 OS=Homo sapiens GN=TBC1D4 PE=1 SV=2  
MEPPSCIQDEPFPHLEPEPGVSAQPGPKPSDKRFRLWYVGGSCLDHRTTLPMLPWLMA  
EIRRSQKPEAGCGGAPAREVILVLSAPFLRCVPAGAGASGGTSPSATQPNPAVFIFE  
HKAQHISRFIHNSHDLTYFAYLIKAQPDPEQMACHVFRATDPSQVPDVISSIRQLSKA  
AMKEDAKPSKDNEDAFYNSQKFEVLYCGKVTVTHKKAPSSLIDDCMEKFSLHEQQRLKI  
GEQRGPDGPDGLADLEVVPSPGDCLEEDAGTDTHLGLPAGASQPALTSSRVCFPERI  
LED SGFDEQQEFRSRCSSVTGVQRRVHEGSQKSQPRRRHASAPSHVQPSDSEKNRTMLFQ  
VGRFEINLISPDTKSVVLEKNFKDISSCSQGIKVDHFGFICRESPEPGLSQYICYVFQC  
ASESLVDEVMLTLKQAFSTAAALQSAKTQIKLCEACPMHSLHKLKERIEGLYPPRAKLVI  
QRHLSSLTDNEQADIFERVQKMKPVSDQEENELVILHLRQLCEAKQKTHVHIGGPSTIS  
NSTIPENATSSGRFKLDILKNKAKRSLTSSLENIFSRGANRMRGLGSVDSFERSNSLAS  
EKDYS PGDSPPGTPPASPPSAWQTFPEEDSDSPQFRRAHTFSHPPSSTKRKLNLDGR  
AQGVRSPLLRQSSEQCSNLSSVRRMYKESNSSSSLSLHTSFSAPSFTAPSFLKSFYQN

SGRLSPQYENEIRQDTASESSDGEGRKRTSSTCSNESLSVGGTSVTPRRISWRQRIFLRV  
ASPMNKSPSAMQQQDGLDRNELLPLSPLSPTMEEEPLVVFLSGEDDPEKIEERKKSKELR  
SLWRKAITHQQILLRMEKENQKLEASRDELQSRKVKLDYEEVGACQKEVLITWDKLLNC  
RAKIRCDMEDIHTLLKEGVPKSRERGEIWQFLALQYRLRHRLPNKQQPPDISYKELLKQLT  
AQQHAILVDLGRTPHTPYFSVQLGPGQLSLFNLLKAYSLLDKEVGYCQGISFVAGVLLL  
HMSEEQAFEMLKFLMYDLGFRKQYRPDMMSLQIQMYQLSRLLHDYHRDLYNHLEENEISP  
SLYAAPWFLTLFASQFSLGFVARVFDIIFLQGTEVIFKVALSLLSSQETLIMECESFENI  
VEFLKNTLPDMNTSEMEKIITQVFEMDISKQLHAYEVEYHVLQDELQESSYSCEDSETLE  
KLERANSQKLRQNMDDLKQLVAHTKIQALESNLENLLTRETMMKSLIRTLEQEKMAYQK  
TVEQLRKLLPADALVNCDLLLRDLNCPNNKAKIGNKP

>sp|Q9UPU7|TBD2B\_HUMAN TBC1 domain family member 2B OS=Homo sapiens GN=TBC1D2B PE=1 SV=2

MPGAGARAEEGGGGEGAAQGAAPGAGPAREPARLCGYLQKLSGKGPLRGYRSRWVFV  
DARRCYLYYFKSPQDALPLGHLDIADACFSYQGPDEAAEPGTEPPAHFQVHSAGAVTVLK  
APNRQLMTYWLQELQQRWEYCNSLDMVKWDSRTSPTPGDFPKGLVARDNTDLIYHPNA  
SAEKARNVLAVETVPGLVGEQAANQPAPGHPNSINFYSLKQWGNELKNSMSSFRPGRGH  
NDSRRTVFYTNEEWELLDPTPKDLEESIVQEEKKLTPEGNGVGTGSGFPDFGRNPYKG  
KRPLKDIIGSYKNRHSSGDPSSSEGTSGSGSVSIRKPASEMQLQVQSQQEELEQLKKDLSS  
QKELVRLQLQTVRSSQYDKYFTSSRLCEGVPKDTLELLHQKDDQILGLTSQLERFSLEKE  
SLQQEVRTLKSKVGELNEQLGMLMETIQAKDEVI IKLSEGEGNGPPPTVAPSSPSVVPVA  
RDQLELDRLKDNLQGYKTQNKFLNKEILELSALRRNAERRERDLMAKYSSLEAKLCQIES  
KYLILLQEMKTPVCSEDQGPTREVIAQLLEDALQVESQEPEQAFVKPHLVSEYDIYGFR  
TVPEDDEEEKLVAKVRALDLKTLYL TENQEVSTGVK WENYFASTVNREMMCSPELKNLIR  
AGIPHEHRSKVWKCVDHRTRKFKDNTEPGHFQTLQKALEKQNPASKQIELDLLRTLPN  
NKHYSCTPSEGIQKLRNVLLAFSWRNPDIGYCQGLNRLVAVALLYLEQEDAFWCLVTIVE  
VFMPRDYYTKTLLGSQVDQRFVFDLMSEKLPRLHGHEQYKVDYTLITFNWFLVVFVDSV  
VSDILFKIWD SFLYEGPKVIFRFALALFKYKEEILKLQDSMSIFKYLYFTRTILDARK  
LISISFGDLNPFPLRQIRNRRAYHLEKVRLELTELEAIREDFLRERDTSPDKGELVSDEE  
EDT

>sp|Q96PL2|TECTB\_HUMAN Beta-tectorin OS=Homo sapiens GN=TECTB PE=2 SV=1

MVTKAFVLLAIFAESA KSCAPNKADVILVFCYPKTIITKIPECYPGWEVHQLALGGLCY  
NGVHEGGYYQFVIPDLSPKNKSYCGTQSEYKPIYHFYSHIVSNDTTVIVKNQPVNYSFS  
CTYHSTYLVNQAAFDQRVATVHVKN GSGMTFESQLSLNFYTNAKFSIKKEAPFVLEASEI  
GSDLFAGVEAKGLSIRFKVVLNSCWATPSADFMYP LQWQLINKGCPTDETVLVHENG RDH  
RATFQFNAFRFNIPKLSKVWLHCETFICDSEKLSCPVTC DKRKRLLRDQTGGVLVVELS  
LRSRGFSSLYSFSVDLHHLIMMLGICAVL

>sp|Q5T9Z0|TEDM1\_HUMAN Transmembrane epididymal protein 1 OS=Homo sapiens GN=TEDDM1 PE=2 SV=1

MILKGCLLYPLCSPRNKQRCARLWKIAYGGLLKIVTGSLLTFYVVLCLDGGMVLMRKQVP  
SRFMYPKEWHLTMFILLTLNGCVDFMSKNVLPQRCVGLEKGTLVLI IYELLLL MVSHVK  
DSEGVELHVYSLLILVVFLLLLVLTAELWAPNMCHLQLMETFLILMMGSWLMQAGFILYR  
PVSGYPWQDDDISDIMFVTTFFCWHVMINASFL LGIYGFSF WYHCFRPSLKLTPKEAP  
YYASTPGPLYKLLQEVEQSEKEDQALLLPKSSP

>sp|Q96QE5|TEFM\_HUMAN Transcription elongation factor, mitochondrial OS=Homo sapiens GN=TEFM PE=1 SV=1

MSGSVLFTAGERWRCFLTPSRSSLYWALHNFCCRKKSTTPKKITPNVTFCDENAKEPENALDKLFSSEQQASILHVLNTASTKELEAFRLLRGRRSINIVEHRENFQPFQNLSELMNVPLFKYKSTVQVCNSILCPKGTGREKRKSPENRFLRKLLKPDIERERLKAVNSIISIVFGTRRIAWAHLDRKLTVLWDWQQSDRWSLMRGIYSSSVYLEEISSIISKMPKADFYVLEKTGLSIQNSSLPILLHFHIMEAMLYALLNKTFAQDGGHQVLSMNRNAVKGHFELMIGDSRTSGKELVKQFLFDSILKADPRVFFPSDKIVHYRQMFLSTELQRVEELYDSLLQAIIFYELAVFDSQP

>sp|Q8NA31|TERB1\_HUMAN Telomere repeats-binding bouquet formation protein 1 OS=Homo sapiens GN=TERB1 PE=2 SV=3

MESEDTKKTQEMKTDLNLLECLKYQMDNAFSQKEALVTIHSICQQNSNASVYFREIGGLMFVKNLAKSSEHSMVKEAALYTLGAIAEKNVYCQQLCTSELFEDLTWFLSNDNINLKRMSVYVILVLVSNNRGTGLVRETGCITVLSRLFRTVISKHELDLSDKNVFQSYQLWSSVCSLTCVCVNNPQNDENQMFCCSLFPHANEWLKNCTTPEIIRPICSFIGLTLANNTYVQKYFVSVGGLDVLSQVLMQLESDSHETLSSAKLAVVVTKTVDACIADNPTFGIVLSKYHIVSKLLALLHESLDSGEKFSIMLTGHCTEDCEENQYDLFKNNGPLMIQALTESQNEELNKAAITVLHNCKKITEKLSLSLGEYPFDENETQQLKDISVKENNLEEHWRKAKEILHRIEQLEREGNEEEIQRENYQDNISSMNISIQNTWKHLHADRIGRGSKAEDEDKSHSRQLQSYKSHGVMSKACTNDDQMKTPLKSANPVHACYRESEQNKTLYKAKSSCNQNLHEETTFEKNFVSQSSDHVFKHPVHIAKNIKQQLPVTDPFTLCSDI INKEVVSFLATPSCSEMLTYRCSGCIAVEKSLNSRNFSKLLHSCPYQCDRHKVIVEADRYKSELRKSLICNKKILLTPRRRQRLSNESTTPGGIKKRRIRKNFTEEEVNYLFGNVKMGHNWNSILWSFPFQQGRKAVDLAHKYHKLTKHPTCAAS

>sp|Q15554|TERF2\_HUMAN Telomeric repeat-binding factor 2 OS=Homo sapiens GN=TERF2 PE=1 SV=3

MAAGAGTAGPASGPGVVRDPAASQPRKRPREGGEGARRSDTMAGGGGSSDGSRAAGRARSRSSGRARRGRHEPGLGGPAERGAGEARLEEAVNRWVLKFYFHEALRAFRGSRYGDFRQIRDIMQALLVRPLGKEHTVSRLLRVMQCLSRIEEGENLDCSFDMEALTPLESAINVLEMIKTEFTLTEAVVSSRKLKVEAAVVICIKNKEFEKASKILKKHMSKDPTTQKLRNDLLNIREKNLAHPVIQNFYSYETFQQMLRFLESHLDDAEPYLLTMAKKALKSESAASSTGKEDKQPAPGPVEKPPREPARQLRNPPTTIGMMTLKAAFKTLGAQDSEAAFAKLDQKDLVLPTQALPASPALKNKRPRKDENESSAPADGEGGSELQPKNKRMTISRLVLEEDSQSTEPSAGLNSSQEAASAPPSKPTVLNQPLPGEKNPKVPKGKWNSSNGVEEKETWVEEDELQVQAAPDEDDSTNITKKQKWTVEESEWVKAGVQKYGEGNWAAISKNYPFVNRATAVMIKDRWRMTMKRLGMN

>sp|Q9UGI8|TES\_HUMAN Testin OS=Homo sapiens GN=TES PE=1 SV=1MDLENKVKKMGLGHEQGFGAPCLKCKEKCEGFELHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTLIAKLKSDGIPMYKRNVMILTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQMLPKEKQPVAGSEGAQYRKKQLAKQLPAHDQDPSKCHELSPREVKEMEQQFVKKYKSEALGVGDVKLPCEMDAQGPKQMNI PGDRSTPAAVGAMEDKSAEHKRTQYSCYCCKLSMKEGDPATYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCGRHYCDSEKPRCAGCDELIFSNEYTQAEANQNWHLKHFFCCFDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRVTYNNFSWHASTECFLCSCCSKCLIGQKFMPEGMVFCSVECKKRM

S

>sp|P05452|TETN\_HUMAN Tetranectin OS=Homo sapiens GN=CLEC3B PE=1 SV=3MELWGAYLLLCLFSLLTQVTTPEPTQKPKKIVNAKDVDVNTKMFEELKSRLDTLAQEVAL

LKEQQALQTVCLKGTKVHMKCFLAFTQTKTFHEASEDCISRGGTLGTPQTGSENDALY  
LRQSVGNEAEIWLGLNDMAAEGTWVDMTGARIAYKNWETEITAQPDGGKTENCAVLSGAA  
NGKWFDKRCRDQLPYICQFGIV

>sp|Q9BXU0|TEX12\_HUMAN Testis-expressed sequence 12 protein OS=Homo sapiens GN=TEX12 PE=2 SV=1

MMANHLVKPDNRNCKRPRELESPVPDSPQLSSLGKSDSSFSEISGLFYKDEALEKDLNDV  
SKEINLMLSTYAKLLSERAAMDASYIDEIDELFKEANAIEENFLIQKREFLRQRFTVIANT  
LHR

>sp|O15482|TEX28\_HUMAN Testis-specific protein TEX28 OS=Homo sapiens GN=TEX28 PE=2 SV=1

MVLKAEHTRSPSATLPSNVPSCRSLSSSEDGSPGSSSLADGGLAHNLQDSVRHRILYLSE  
QLRVEKASRDGNTVSYLKLVSADRHPVPHIQQAFKVNQRASATIAQIEHRLHQCHQQL  
QELEEGCRPEGLLLMAESDPANCEPPSEKALLSEPPEPGGEDGPVNLPHASRPFILESRF  
QSLQQGTCTEDVAQQQNLQKVKAELEEAKRFHISLQESYHSLKERSLTDLQLLLES  
LQEEKCRQALMEEQVNGRLQGQLNEIYNLKHNLACSEERMAYLSYERAKEIWEITETFKS  
RISKLEMLQQVTQLEAAEHLQSRPPQMLFKFLSPRLSLATVLLVFVSTLCACPSSLISSR  
LCTCTMLMLIGLVLAQRWRAIPATDWQEWVPSRCRLYSKDSGPPADGP

>sp|O43247|TEX33\_HUMAN Testis-expressed sequence 33 protein OS=Homo sapiens GN=TEX33 PE=2 SV=2

MELGHGAGTTTFTRAHLNDKEGQQDLDPWKAAYSSLDTSKFKNQLSSPQPLPLGASAQG  
SSLGQCHLKEIPPPPTAASRDSLGMDPQSRSLKNAGSRSSSRENRAATSGGAQPCQGT  
DGPSLGAQDQRSTPTNQKGSIIIPNNIRHKFGSNVVDQLVSEEQAQKAIDVFEGQKRASS  
WPSRTQNPVEISSVFSYYDLGYNMRSNLFRAAAETKSLMKASYTPEVIEKSVRDLEHW  
HGRKTDGLGRWHQKNAMNLNLQKALEEKYGENSKSKSSKY

>sp|Q6ZYL4|TF2H5\_HUMAN General transcription factor IIH subunit 5 OS=Homo sapiens GN=TF2H5 PE=1 SV=1

MVNVLKGVLIEDPAMKQFLLYLDESALGKKFIIQDIDDTHVFVIAELVNVLQERVGEL  
MDQNAFSLTQK

>sp|P22735|TGM1\_HUMAN Protein-glutamine gamma-glutamyltransferase K OS=Homo sapiens GN=TGM1 PE=1 SV=4

MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSCRNAADD  
WGPEPSDSRGRGSSSGTRRPGSRGSDSRPVSRGSGVNAAGDGTIREGMLVVNGVDLLSS  
RSDQNRREHHTDEYEYDELIVRRGQPFHMLLLSRTYESSDRITLELLIGNNPEVGKGTH  
VIIPVGKGGSGGWAQVVKASGQNLNLRVHTSPNAIIGKFQFTVRTQSDAGEFQLPFDPR  
NEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYGTEAQIGERTWNYGQFDHGVLD  
CLYILDRRGMPYGGRGDPVNVSRVISAMVNSLDDNGVLIGNWSGDYSRGTNPSAWVGSVE  
ILLSYLRTGYSVPYGCWVFAGVTTTVLRCLGLATRTVTNFNSAHDTDTSLTMDIYFDEN  
MKPLEHLNHDSVWNFHVWDCWMKRPDLPSGFDGWQVVDATPQETSSGIFCCGPCSVESI  
KNGLVYMKYDTPFIFAEVNSDKVYWQRQDDGSFKIVYVEEKAIGTLIVTKAISSNMREDI  
TYLYKHPEGSDAERKAVETAAAHGSKPNVYANRGS AEDVAMQVEAQDAVMGQDLMVSVML  
INHSSSRRTVKLHLYLSVTFTYTGVS GTIFKETKKEVELAPGASDRVTMPVAYKEYRPHLV  
DQGAMLLNVSGHVKESGQVLAKQHTFRLRTPDLSLTLLGAADVGECEVQIVFKNPLPVT  
LTNVVFRLEGSLQRPKILNVGDIGGNETVTLRQSFVPVRPGPRQLIASLDSPQLSQVHG  
VIQVDVAPAPDGGFFSDAGGDSHLGETIPMASRGA

>sp|Q96EK4|THA11\_HUMAN THAP domain-containing protein 11 OS=Homo sapiens GN=THAP11 PE=1 SV=2

MPGFTCCVPGCYNNSHRDKALHFYTFPKDAELRRLWLKNVSRAGVSGCFSTFQPTTGHRL  
CSVHFQGGRKTYTVRVPTIFPLRGVNERKVARRPAGAAAAARRRQQQQQQQQQQQQQQQQQ  
QQQQQQQQQQSSPSASTAQTALQPNLVSASAAVLLTLQATVDSSQAPGSVQPAPITP  
TGEDVKPIDLTVQVEFAAAEGAAAAAASELQAATAGLEAAECPMGSQLVVVGEEGFPDT  
GSDHSYSLSSGTTEEELLRKLEQRDILALMEVKMKEMKGSIRHLRLTEAKLREELREKD  
RLAMAVIRKKHGM

>sp|Q6YHU6|THADA\_HUMAN Thyroid adenoma-associated protein OS=Homo sapiens GN=THADA PE=1 SV=1

MGVKKKKEMQVAALTICHQDLETLKSFADVEGKNLASLLHCVQLTDGVSQIHYIKQIVP  
LLEKADKNGMCDPTIQSCLDILAGIYLSLSLKNPLKKVLASSLNSLPDFFLPEAMHRFTS  
RLQEELNTTDLYSYRKVTDNISSCMENFNLGRASVNNLLKNVLHFLQKSLIEILEENRKC  
AGNHIIQTQLMNDLLVGIRVSMMLVQKVQDFQGNLWKTSDSPIWQNMCGLLSIFTKVLSD  
DDLLQTVQSTGLAIILFIKTMFHPSEKIPHLISSVLLRSVDCTSVPEWFMSSCRSLCCG  
DISQSAVLFLCQGTAMLWDWQNGSMGRSGEALLLDTAHVLF TLSSQIKEPTLEMFLSRIL  
ASWTNSAIQVLESSPSTLDSLNGNSSIVGRLLLEYVYTHWEHPLDALRHQTKIMFNLLQ  
MHRLTVEGADFVPDPFFVELTESLLRLEWHIKGYTCLGCLVECI GVEHILAIDKTIPSQ  
ILEVMGDQSLVPYASDLLETMFRNHKSHLKSQTAESSWIDQWHETWVSPLLFI LCEGNLD  
QKSYVIDYYLPKLLSYSPESLQYMKILQTSIDAKTGQEQSFPSLGSCNSRGALGALMAC  
LRIARAHGHLQSATDTWENLVSDARIKQGLIHQHCQVRIDTLGLLCESNRSTEIVSMEEM  
QWIQFFITYNLNSQSPGVRQQICSLKKLFCRIQESSQVLYKLEQSKSKREPENELTKQH  
PSVSLQQYKNFMSSICNSLFEALFPGSSYSTRFSAITILGSIAEVFHVPEGRIYTVYQLS  
HDIDVGRFQTLMECFTSTFEDVKILAFDLLMKLSKTAVHFQDSGKLQGLFQAALSTST  
KPYDCVTASYLLNFLIWQDALPSSLSAYLTQQVACDNGDRPAAVVERNTLMVIKCLMENL  
EEEVSAENSLQAFAAFPMYGRVHCITGALQKLSLNSLQLVSEWRPVVEKLLMSYRLS  
TVVSPVIQSSSPEGLIPMDTDESASRLQMILNEIQPRDNDYFNQAKILKEHDSFDMKD  
LNASVVIDTSTEIKGEVKTCDVTAQMVLVCCWRSMKEVALLGMLCQLLPMQVPPESS  
DGLLTVEQVKEIGDYFKQHLLQSRHRGAFELAYTGFKL TEVLNRCPNVSLQKLPEQWLW  
SVLEEIKCSDPSSKLCATRRSAGIPFYIQALLASEPKKGRMDLLKITMKELISLAGPTDD  
IQSTVPQVHALNILRALFRDTRLGENTIIPYVADGAKAAILGFTSPVWAVRNSSTLLFSAL  
ITRIFGVKRAKDEHSKTNRMGTGREFFSRFP ELYPFLKQLETVANTVDSMGEPNRHPSM  
FLLLLVLERLYASPMGTSSALSMGPFVVPFIMRCGHSPVYHSREMAARALVPFVMIDHIP  
NTIRTLSTLPSCTDQCFRQNHIGHGTLLQVFHLLQAYSDSKHGTNSDFQHELT DITVCTK  
AKLWLAKRQNPCLVTRAVYIDILFLLTCCLNRSKDNQPVLES LGFWEEVRGIISGSELI  
TGFPWAFKVPGLPQYLQSLTRLAIAAVWAAA KSGERETNPISFSQLLESAPFEVRSLT  
LEALLEKFLAAASGLGEGVPLL CNMGEKFLLLAMKENHPECFCILKILHCMDPGEWL  
PQTEHCVHLTPKEFLIWTMDIASNERSEIQSVALRLASKVISHHMQTCVENRELIAAELK  
QWVQLVILSCEDHLPTE SRLAVVEVL TSTTPLFTNPHPILELQDTLALWKC VLTLLQSE  
EQAVRDAATETVTTAMSQENTCQSTEF AFCQVDASIALALALAVLCDLLQQWDQLAPGLP  
ILLGWLLGESDDL VACVESMHQVEEDYLFEKAEVNFWAETLIFVKYLCKHLFCLLSKSGW  
RPPSPEMLCHLQRMVSEQCHLLSQFFRELPPAAEFVKTVEFTRLRIQEERTLACLRLAF  
LEGKEGEDTLVLSVWDSYAESRQLTLPRTEAAC

>sp|Q7Z6K1|THAP5\_HUMAN THAP domain-containing protein 5 OS=Homo sapiens GN=THAP5 PE=1 SV=2

MPRYCAAICCKNRRGRNNDKRLSFYFPFLHDKERLEKWLKNMKRDSWVPSKYQFLCSDH  
FTPDSLDIRWGIYRLKQTAVPTIFSLPEDNQGKDPSKKKSQKKNLEDEKEVCPKAKSEES  
FVLNETKKNIVNTDVPHQHPPELLHSSSLVKPPAPKTGSIQNNMLTLNLVKQHTGKPESTL  
ETSVNQDTGRGGFHTCFENLNSTTITLTTSNSESIHQSLETQEVLEVTTSHLANPNFTSN  
SMEIKSAQENPFLFSTINQTVHEELNTNKESVIAIFVPAENSKPSVNSFISAQKETTEMED  
TDIEDSLYKDVYDYTEVLQIEHSYCRQDINKEHLWQKVS KLH SKITLLELKEQQT LGRLK  
SLEALIRQLKQENWLSEENVKIIENHFTTYEVTMI

>sp|Q8NA92|THAP8\_HUMAN THAP domain-containing protein 8 OS=Homo sapiens GN=THAP8 PE=1 SV=1

MPKYCRAPNCSNTAGRLGADNRPVSFYKFPLKDGPRQLQAWLQHMGCHEHWVPSCHQHLCS  
E HFTPSCFQWRWGVRYLRPDVPSIFSRGPPAKSQRRTSTQKPVSPPPPLQKNTPLPQSP  
AIPVSGPVRLVVLGPTSGSPKTVATMLLTPLAPAPTPEVSQPEVPAQQAQTGLGPVLGAL  
QRRVRLQRCQERHQAQLQALERLAQQLHGESLLARARRGLQRLTTAQT LGPEESQTFTI  
ICGGPDIAMVLAQDPAPATVDAKPELLDTRIPSA

>sp|P10827|THA\_HUMAN Thyroid hormone receptor alpha OS=Homo sapiens GN=THRA PE=1 SV=1

MEQKPSKVECGSDPEENSARSPDGKRKRKNGQCSLKTSMSGYIPSYLDKDEQCVVCGDKA  
TGYHYRCITCEGCKGFFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAGVM  
AMDVLDDSKRVAKRKLEIQNRERRRKEEMIRSLQQRPEPTPEEWDLIHIAATEAHRSTNA  
QGSHWKQRRKFLPDDIGQSPIVSMPDGDVDLEAFSEFTKIIITPAITRVVDFAKKLPMFS  
ELPCEDQIILLKGCCMEIMSLRAAVRYDPESDTLTLSGEMAVKREQLKNGGLGVVSDAIF  
ELGKSLSAFNLDTEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFEHYVNRKHNI  
PHFWPKLLMKEREVQSSILYKGAAEGRPGLGVHPEGQQLGMHV VQGPQVRQLEQQL  
GEAGSLQGPVLQHQS PKSPQRLLELLHRS GILHARAVCGEDDSSEADSPSSSEEEPEVC  
EDLAGNAASP

>sp|P05543|THBG\_HUMAN Thyroxine-binding globulin OS=Homo sapiens GN=SERPINA7 PE=1 SV=2

MSPFLYLVLVLGLHATIHCAPEGKVTACHSSQPNATLYKMSSINADFAFNLYRRFTVE  
TPDKNIFFSPVSISAALVMSFGACCSTQTEIVETLGFNLDTMPVEIQHG FQHLICSLN  
FPKKELELQIGNALFIGHLKPLAKFLNDVKTLYETEVFSTDFSNISAQKQINSHVEMQ  
TKGKVVG LIQDLKPNTIMVLVNYIHFKAQWANPFDPSKTEDSSSFLIDKTTTVQVPMMHQ  
MEQYYHLVDMELNCTVLQMDYSKNALALFVLPKEGQMESVEAAMSSKTLKKWNRLQKGW  
VDLFVPKFSISATYDLGATLLKMG IQHAYSENADFSGLTEDNGLKLSNAAHKAVLHIGEK  
GTEAAAVPEVELSDQPENTFLHPIIQIDRSFMLLILRSTRSILFLGKVVNPT EA

>sp|P10828|THB\_HUMAN Thyroid hormone receptor beta OS=Homo sapiens GN=THRB PE=1 SV=2

MTPNSMTENGLTAWDKPKHCPDREHDWKLVMSEACLHRKSHSERRSTLKNEQSSPHLIQ  
TTWTSSIFHLDDVDNDQSVSSAQTFQTEEKCKGYIPSYLDKDEL CVVCGDKATGYHYR  
CITCEGCKGFFRRTIQKNLHPSYSCKYEGKCVIDKVTRNQCQECRFKKCIYVGMATDLVL  
DDSKRLAKRKLIEENREKRREELQKSIGHKPEPTDEEWELIKTVTEAHVATNAQGS HWK  
QKRKFLPEDIGQAPIVNAPEGKVDLEAFSHFTKIIITPAITRVVDFAKKLPMFCELPCED  
QIILLKGCCMEIMSLRAAVRYDPESDTLTLNGEMAVTRGQLKNGGLGVVSDAIFDLGMSL  
SSFNLDDETEVALLQAVLLMSSDRPGLACVERIEKYQDSFLLAFEHYIN YRKHHVTHFWPK  
LLMKVTDLRMIGACHASRFLHMKVECPTELPPLFLEVFE D

>sp|Q5T1C6|THEM4\_HUMAN Acyl-coenzyme A thioesterase THEM4 OS=Homo sapiens GN=THEM4 PE=1 SV=1

MLRSCAARLRTL GALCLPPVGRRLPGSEPRPELRSFSSEEVILKDCSVPNPSWNKDLRL  
FDQFMKKCEDGSWKRLPSYKRTPEW IQDFKTHFLDPKLMKEEQMSQAQLFTRSFDDGLG  
FEYVMFYNDIEKRMVCLFQGGPYLEGPPGF IHGGAIATMIDATVGM CAMMAGGIVMTANL  
NINYKRPIPLCSVVMINSQLDKVEGRKFFVSCNVQSVDEKTL YSEATSLFIKLNPAKSLT

>sp|P37840|SYUA\_HUMAN Alpha-synuclein OS=Homo sapiens GN=SNCA PE=1 SV=1

MDVFMKGLSKAKEGVVAAA EKTQGVAAAGKTKEGVLYVGSKTKEGVVHGVATVAEKT  
EQVTN VGGAVVTGVTAVAQKTVEGAGSIAAATGFVKDQLGKNEEGAPQEGILEDMPVDP  
DNEAYEMPSEEQYQDYEPEA

>sp|Q86TM6|SYVN1\_HUMAN E3 ubiquitin-protein ligase synoviolin OS=Homo sapiens GN=SYVN1 PE=1 SV=2

MFRTAVMMAASLALTGAVVAHAYLKHQFYPTVVYLTKSSPSMAVLYIQAFVLVFLLGKV  
MGKVFFGQLRAAEMEHLERSWYAVTETCLAF TVFRDDFSPRFVALFTLLLFLKCFHWLA  
EDRVDFMERSPNISWLFHCRIVSLMFLLGILDFLVSHAYHSILTRGASVQLVFGFEYAI  
LMTMVLTI FIKYVLHSV DLQSENPDNKAVYMLYTELFTGF IKVLLYMAFMTIMIKVHTF  
PLFAIRP MYLAMRQFKAVTDAIMSRRAIRNMNTLYPDATPEELQAMDNVCIICREEMVT  
GAKRLPCNHIFHTSCLRSWFQRQQTCTCRMDVLRASLPAQSPPPPEPADQGPPPAHPHP  
PLLPQPPNFPQGLLPFPFPGMFPLWPPMGPFPPVPPPPSSGEAVAPPSTSAALSRPSGA  
ATTTAAGTSATAASATASGPGSGSAPEAGPAPGFPFPFPPWGMPLPPPFAPFPPMPVPPAG  
FAGLTPEELRALEGHERQHLEARLQSLRNIHTLLDAAMLQINQYLTVLASLGPPRPATSV  
NSTEETATTVAAA SSTSIP SSEATTPTPGASPPAPEMERPPAPESVGTEEMPEDGEPEDA  
AELRRRRLQKLESPVAH

>sp|P54577|SYYC\_HUMAN Tyrosine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=YARS PE=1 SV=4

MGDAPSPEEKHLITRN LQEVLGEEKLKEILKERELKIYWG TATTGKPHVAYFVPMSKIA  
DFLKAGCEVTILFADLHAYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLFIKG  
TDYQLSKEYTLDVYRLSSVVTQHDSKKAGAEVVKQVEHPLLSGLLYPGLQALDEEYLKVD  
AQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNMPVGLTGSKMSSEESKIDLLDRKED  
VKKKLKKAFC EPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFA  
AEVHPGDLKNSVEALNKLLDPIREKFNTPALKKLASAAYDPDSKQKPMAGPAKNSEP  
EEVIPSRLDIRVGKIITVEKHPDADSLYVEKIDVGEAEPRTVVSGLVQFVPKEELQDRLV  
VVL CNLKPQKMRGVESQGMLLCASIEGINRQVEPLDPPAGSAPGEHV FVKGYEKGQPDEE  
LKPKKKVF EKLQADFKISEECIAQWKQTNFMTKLGSISCKSLKGGNIS

>sp|Q9Y2Z4|SYYM\_HUMAN Tyrosine--tRNA ligase, mitochondrial OS=Homo sapiens GN=YARS2 PE=1 SV=2

MAAPILRSFSWGRWSGTLNLSVLLPLGLRKAHSGAQGLLAAQKARGLFKDFFPETGTKIE  
LP ELFDRGTASFPQTIYCGFDPTADSLHVGHLLALLGLFHLQRAGHNVIALVGGATARLG  
DPSGR TKEREALETERVRANARALRLGLEALAAHQQLFTDGRSWG SFTVLDNSAWYQKQ  
HLVDFLAAVGGHFRMG TLLSRQSVQLRLKSPEGMSLAEFFYQVLQAYDFYFLQRYGCRV  
QLGGSDQLGNIMSGYEFINKLTGEDVFGITVPLITSTTGAKLGKSAGNAVWLN RDKTSPF  
ELYQFFVRQPDDSVERYLKLFTFLPLPEIDHIMQLHVKEPERRGPQKRLAAEVTKLVHGR  
EGLDSAKRCTQALYHSSIDALEVMSDQELKELFKEAPFSEFFLDPGTSVLDTCRKANAIP  
DGPRGYRMITEGGVSINHQQVTNPESVLIVGQHILKNGLSLLKIGKRNFYIIKWLQL



>sp|Q9BVX2|T106C\_HUMAN Transmembrane protein 106C OS=Homo sapiens GN=TMEM106C PE=1 SV=1  
MGSQHSAAARPSSCRRKQEDDRDGLLAEREQEEAIAQFPYVEFTGRDSITCLTCQGTGYI  
PTEQVNELVALIPHSQRLRPQRTKQYVLLSILLCLLASGLVVFLLFPHSVLVDDDGIKV  
VKVTFNKQDSLVIILTIMATLKIRNSNFYTVAVTSLSSQIQYMNVTVVSTYVTTNVSILPPR  
SEQLVNFTGKAEMGGPFYSYVFFCTVPEILVHNIVIFMRTSVKISYIGLMTQSSLETHHY  
VDCGGNSTAI

>sp|Q9Y5J6|T10B\_HUMAN Mitochondrial import inner membrane translocase subunit Tim10 B  
OS=Homo sapiens GN=TIMM10B PE=1 SV=1  
MERQQQQQQQLRNLRDFLLVYNRMTLFCFQRCVPSLHHRALDAEEEEACLHSCAGKLIHSN  
HRLMAAYVQLMPALVQRRIADYEAAASAVPGVAAEQPGVSPSGS

>sp|Q14DG7|T132B\_HUMAN Transmembrane protein 132B OS=Homo sapiens GN=TMEM132B PE=2 SV=2  
MFGAASRMDTTAVCTGGVTESRGIVDSLQKFSSLPAYLPTNLHISNAEESFFLKEANQDL  
TRNSSLQARVEPFFIYRARTPPIINASYGPFVSVEKIIPQELLLTSTAFGNMDKFPFNWKL  
KSHILDSSIYSNRPKVQTLFYVTGMGWDDSDLTEDLPCVKMFAPPEAREVAASCRLQGAP  
GLCVAELELLPEWFSSGLDLEPEEIPALLGGTMELEFFTLYPADKAGQCPLLEEGKWEN  
NIHSGLESPQAFPARERIGSVVYPTQDDLKWSLVSLDENVVISVPLNLVREGDTATFL  
VSLTSSSVADQFTLRKAAAGVKITAVRVSSDQWAVQEEIDNGSTQTSATLTCMGHRPD  
TQSRVNGSFYEILQVDFGIDNSSDLAGAQQITWQVEYPIEDSMSELVSEIFVSQTTFVG  
IVPLAMDTEVLNTAILTGKPVSVPVKVVGVQEDGSVVDVSESVECKSADEDVIKVSNNCD  
SIFVNGKEMKSKVDITVNFTHQHFTSQFEVTVWAPRLPLQIEISDTELSQIKGWRIPVAA  
NRRPTRESDDDEDEKKGRCSLQYQHATVRVLTQFVAESPDLGQLTYMLGPDWQFDITD  
LVTEFMKVEEPKIAQLQDGRTLAGREPGITTVQVLSPLSDSILAECTVIVLDDRVITIAEL  
GVQLVAGMSLSLQPHRADKRAIVSTAAALDVLQSPQQAIVSSWILFSDGSVTPLDIYDP  
KDYSVTVSSLDENVVSVQANLESKWPIVVAEGEGQGGLIKLEMMISEPCQKTKRKSVLAV  
GKGNVKVKFEPSSDEHQGGSNDIEGINREYKDHLNSNIEREQNQERAVQEWFHRTGTPVGQ  
EESTNKSTTPQSPMEGKNKLLKSGGPDFTSFPTQGKSPDPNNPSDLTVTSRGLTDLEIG  
MYALLCVFCLAILVFLINCVAFWKYRHKRFVSEQGNIPSHDWVWLGNVEELLENPVD  
ITLPSEECTTMDRGLQFEERNFLLNGSSQKTFHSQLLRPSDYVYEKEIKNEPMNSSGPK  
RKRKFTSYTTILPEDGGPYTNSILFSDDDNIKWVCQDMGLGDSQDFRDYMESLQDQM

>sp|Q8NDZ6|T161B\_HUMAN Transmembrane protein 161B OS=Homo sapiens GN=TMEM161B PE=2 SV=1  
MGVIGIQLVVTMVMASVMQKIIPHYSLARWLLCNGSLRWYQHPTTEEELRILAGKQKQKGT  
KKDRKYNHIESKPLTIPKDIDLHLETKSVTEVDTLALHYFPEYQWLVDFTVAAATVVYLV  
TEVYYNFMKPTQEMNISLVWCLLVLSFAIKVLFSLTTHYFKVEDGGERSVCVTFGFFFFV  
KAMAVLIVTENYLEFGLETGFTNFSDSAMQFLEKQGLSQSPVSKLTFKFFLAIFCSFIG  
AFLTFPGLRLAQMHLDALNLATEKITQTLLHINFLAPLFMVLLWVKPITKDYIMNPPLGK  
ESIPLMTEATFDTLRLWLIILLCALRLAMMRSHLQAYLNLAQKCVDQMKKEAGRISTVEL  
QKMVARVFYYLCVIALQYVAPLVMLLHTTLLKTLGNHSWGIIYPIESISTLPVDNSLLSNS  
VYSELPSAEGKMKVTVTQITVALSSLKNIFTPLFRGLLSFLTWWIAACLFSTSLFGLFY  
HQYLTVA

>sp|Q9Y519|T184B\_HUMAN Transmembrane protein 184B OS=Homo sapiens GN=TMEM184B PE=1 SV=2  
MTVRGDLAPDPASPTTAAASPSVSVIPEGSPAMEQPVFLMTTAAQAISGFFVWTALLI  
TCHQIYMHLCYSCPNQRYIVRILFIVPIYAFDSWLSLLFFTNQYVYVFGTVRDCYEA  
LVIYNFLSLCYEYLGGEISSIMSEIRGKPIESSCMYGTCCCLWGKTYSIGFLRFCKQATLQF  
CVVKPLMAVSTTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELL

SPYSPVLKFFMVKSIVFLSFWQGMLLAILEKCGAIPKIH SARVSVGEGTVAAGYQDFIIC  
VEMFFAALALRHAFTYKVYADKRLDAQGRCAPMKSISSSLKETMNP HDIVQDAIHNFSPA  
YQYQTQQSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLLSSDDEF

>sp|B2RXF0|T229A\_HUMAN Transmembrane protein 229A OS=Homo sapiens GN=TMEM229A PE=2 SV=2  
MAGSDVDSEGPARRGGAARRPGAPGGPGSEAAAGCPEPLSTAEAPAESATLP AWMRLYFY  
GMHGITLDVLVSSARRFARSPDLRMLGFSSPYRCLLHSLTHFALEKVYLQQRRC PNAFVF  
NFLLYPSAHVGLQTLAQALLSLGGGAGVAVAPGALDLALQYVLALYHCQVFLKRFLRL  
RYGRQRRRQQQQQQQQQQRRGALPVPPGARVPTAAGARRRRPRGPRGAGGAPSQGLPD  
LPRFLFFGMHGFLDEIFFTFFFNVLGQGDGTTSGHTSLWSFFMYGSCSFVVEKLYFHLHY  
SRGWTWKRVPIYVIFYVWELSWGLGLRTCGACSWDYSHYPLNFMGLITL MYLPGWIFL  
SVYQDLISNVLWRVQYVPAN

>sp|Q9NYW5|TA2R4\_HUMAN Taste receptor type 2 member 4 OS=Homo sapiens GN=TAS2R4 PE=1 SV=1  
MLRLFYFSATIIASVILNFVGIIMNLFITVNCKTWKSHRISSSDRILFSLGITRFLMLG  
LFLVNTIYFVSSNTERSIVLSAFFVLFCFMFLDSSSVWFVTLNLILYCVKITNFQHSVFLL  
LKRNISPKIPRLLACVLISAFITCLYITLSQASPFPELVTRNNTSFNISEGILSLVVS  
LVLSSSLQFIINVTASLLIHSLRRHIQKMQKNATGFWNPQTEAHVGAMKLMVYFLILYI  
PYSVATLVQYLPFYAGMDMGTKSICLIFATLYSPGHSVLIIITHPKLKTAKKILCFKK

>sp|Q9NYW4|TA2R5\_HUMAN Taste receptor type 2 member 5 OS=Homo sapiens GN=TAS2R5 PE=1 SV=1  
MLSAGLGLMLVAVVEFLIGLIGNSLVVSFWIRKFNWSSYNLIILGLAGCRFLQW  
LIILDLSLFLPFQSSRWLRYSIFWVLVSQASLWFATFLSVFYCKKITTFDRPAYLWLKQ  
RAYNLSLWCLLGYFIINLLTVQIGLTFYHPPQGNSSIRYPFESWQYLYAFQLNSGSYLP  
LVVFLVSSGMLIVSLYTHHKMKVHSAGRRDVRAKAHITALKSLGCFLLHLVYIMASPF  
SITSKTYPPDLTSVFIWETLMAAYPSLHSLILIMGIPRVKQTCQKILWKTVCARRCWGP

>sp|Q9P1P4|TAAR3\_HUMAN Putative trace amine-associated receptor 3 OS=Homo sapiens  
GN=TAAR3 PE=2 SV=1  
MDLTYIPEDLSSCPKFVNKILSSHQPLFSCPGDNVFGYDWSHDYPLFGNLVIMVSI SHFK  
QLHSPTNFLILSMATTD FLLGFVIMPYSIMRSVESCWYFGDGFCKFHTSFDMMLRLTSIF  
HLCSIAIDRFYAVCYPLHYTTKMTNSTIKQLLAFCSVPALFSFGLVLEADVSGMQSYK  
ILVACFNFCALTFNKFWGTILFTTCFPTPGSIMVGIYKIFIVSKQHARVISHVPENTKG  
AVKKHLSKKKDRKAAKTLGIVMGVFLACWLPCLAVLIDPYLDYSTPILILDLLVWLRYF  
NSTCNPLIHGFFNPWFQKAFKIYVSGKIFSSHSETANLFP EAH

>sp|Q96RI8|TAAR6\_HUMAN Trace amine-associated receptor 6 OS=Homo sapiens GN=TAAR6 PE=2  
SV=1  
MSSNSSLLVAVQLCYANVNGSCVKIPFSPGSRVILYIVFGFGLAVFGNLLVMISILHF  
KQLHSPTNFLVASLACADFLVGVTMPFSMVRTVESCWYFGRSFCTFHTCCDVAFCYSSL  
FHLCFISIDRYIAVTDPLVYPTKFTVSVSGICISVSWILPLMSGAVFYTG VYDDGLEEL  
SDALNCIGGCQTVVNQNWVLTDFLSFFIPTFIMIILYGNIFLVARRQAKKIENTGSKTES  
SSESYKARVARRERKAAKTLGVTTVAFMISWLPYSIDSLIDAFMGFITPACIYEICCWCA  
YYNSAMNPLIYALFYPWFRKAIKVIIVTGQVLKNSSATMNL FSEHI

>sp|O95359|TACC2\_HUMAN Transforming acidic coiled-coil-containing protein 2 OS=Homo  
sapiens GN=TACC2 PE=1 SV=3  
MGNENSTDNQRTLSAQTPRSAQPPGNSQNIKRKQQDTPGSPDHRDASSIGSVGLGGFCT  
ASESSASLDPCLVSPEVTEPRKDPQGARGPEGSLLPSPPPSQEREHPSSSMPFAECPPEG  
CLASPAAPEDGPQTQSPRREPAPNAPGDIAAFAERDSSTPYQEIAAVPSAGRERQPK

EEGQKSSFSFSSGIDQSPGMSPVPLREPMKAPLCGEGDQPGGFESQEKEAAGGFPPAESR  
QGVASVQVTPEAPAAAQQGTESSAVLEKSPLKPMAPIPQDPAPRASDRERGQGEAPPQYL  
TDDLEFLRACHLPRSNSGAAPAEVNAASQESCQQPVGAYLPHAELPWGLPSPALVPEAG  
GSGKEALDITDVQGHPQTGMRGTPKNQVVCVAAGGQPEGGLPVSPEPSLLTPTEEAHPAS  
SLASFPAAQIPIAVEEPPGSSSRESVSKAGMPVSADAAKEVV DAGLVGLERQVSDLGSKGE  
HPEGDPGEVPAPSPQERGEHLNTEQSHEVQPGVPPPPLPKEQSHEVQPGAPPPPLPKAPS  
ESARGPPGPTDGAKVHEDSTSPA VAKEGSRSPGDSPPGGKEEAPEPPDGGDPGNLQGEDSQ  
AFSSKRDP EVGKDELSKPSSDAESRDHPSSHAQPPRKGAGHTDGPHSQTAEADASGLP  
HKLGEEDPVLPPVPDGAGEPTVPEGAIWEGSGLQPKCPDTLQ SREGLGRMESFLTLESEK  
SDFPPTPVAEVAPKAQEGESTLEIRKMGSCDGEGLLTSPDQPRGPACDASRQEFHAGVPH  
PPQGENLAADLGLTALILDQDQGGIPSCPGEGWIRGAASEWPLLSSEKHLQPSQAQPETS  
IFDVLKEQAQPPENGKETSPSHPGFKDQGADSSQIHVPVEPQEDNNLPTHGGQEQALGSE  
LQSQLPKGTLSDTPTSSPTDMWESSLTEESEL SAPTRQKLPALGEKRPEGACGDGQSSR  
VSPPAADV LKDFSLAGNFSRKETCCTGQGP NKSQQALADALEEGSQHEEACQRHPGASEA  
ADGCSPLWGLSKREMASGNTGEAPPCQPD SVALLD AVPCLPALAPASPGVTPTQDAPETE  
ACDETQEGRQQPV PAPQQKMECWATSDAESPKLLASFPSAGEQGGEAGAAETGGSAGAGD  
PGKQQAPEKPGEATLSCGLLQTEHCLTS GEEASTSALRESCQAEHPMASCQDALLPAREL  
GGIPRSTMDFS THQAVPDPKELLLSGPPEVAAPDTPYLHVDSAAQRGAEDSGVKAVSSAD  
PRAPGESPCPVGEPPLALENAASLKL FAGSLAPLLQPGAAGGEIPAVQASSGSPKARTTE  
GPVDSMPCLDRMPLLAKGKQATGEEKAATAPGAGAKASGEGMAGDAAGETEGSMERMGE  
SQDPKQGTSGGVDTSSEQIATLTGFPDFREHIAKIFEKPVLGALATPGEKAGAGRS AVGK  
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AGLTWERNLPAGVGKEMAGVPPTLREDERPEGPGA AWPGLGQAYSQLERSRQELASGL  
PSPAATQELPVERAAAFQVAPHSHGEEAVAQDRIPSGKQHQETSACDSPHGEDGPGDFAH  
TGVPGHVPRSTCAPSPQREVLTVPEANSEPWTLDTLGGERRPGVTAGILEMRNALGNQST  
PAPPTGEVADTPLEPGKVAGAAGEAGDITLSTAETQACASGDLPEAGTTRTF SVVAGDL  
VLPGSCQDPACSDKAPGMEGTAALHGDS PARPQQAKEQPGPERP IPAGDGKVCVSSPPEP  
DETHDPKLQHLAPEELHTDRESRPGPSMLPSVPKKDAPRVM DKVTSDETRGAEGTESSP  
VADDIIQPAAPADLESPTLAASSYHGDVVGQVSTD LIAQSI SPAAAHAGLPPSAAEHIVS  
PSAPAGDRVEASTPSCPDPAKDL SRSSDSEEAFETPESTTPVKAPPAPPPPPPEV IPEPE  
VSTQPPPEEPGCGSETVPVPDGRSDSVEGSPFRPPSHSFS AVFDEDKPIASSGTYNLDF  
DNIELVDTFQTLEPRASDAKNQEGKVNTRRKSTDSVPISKSTLSRSLSLQASDFDGASSS  
GNPEAVALAPDAYSTGSSSASSTLKRTKKPRPPSLKKKQTTKKPTETPPVKETQQEPDEE  
SLVPSGENLASETKTESAKTEGSPALLEETPLEPAVGPKAACPLDSESAEGVVPASGG  
GRVQNSPPVGRKTLPLTTAPEAGEVTPSDSGGQEDSPAKGLSVRLEFDYSEDKSSWDNQQ  
ENPPPTKKIGKKPVAKMPLRRPKMKKTPEKLDNTPASPPRSPAEPNDIPIAKGTYTFDID  
KWDDPNFNPFSSSKMQESPKLPQQSYNFDPDTCDESVDPFKTS SKTPSSPSKSPASFEI  
PASAMEANGVDGDGLNPKAKKKKTPLKTD TFRVKKSPKRSPLSDPPSQDPTPAATPETPP  
VISAVVHATDEEKLA VTNQKWTCTVDLEADKQDYPQPSDLSTFVNETKFSSPTEELD YR  
NSYIEIYMEKIGSSLPQDDDAPKKQALYLMFDTSQESPVKSSPVRMESPTPCSGSSFEE  
TEALVN TAAKNQHPVPRGLAPNQESH LQVPEKSSQKELEAMGLGTPSEAIEITAPEG SFA  
SADALLSRLAHPVSLCGALDYLEPD LAEKNPPLFAQKLQEELEFAIMRIEALKLARQIAL  
ASRSHQDAKREAAHPTDVSISK TALYSRIGTAEVEKPAGLLFQQPD LDSALQIARAEIIT  
KEREVSEWKDKYEE SRREV MEMRKIVA EYEK TIAQMIEDEQREKSVSHQTVQQLVLEKEQ

ALADLNSVEKSLADLFRRYEKMKEVLEGRKNEEVLKRCAQEYLSRVKKEEQRYQALKVH  
AEEKLDRANAIEIAQVRGKAQQEQAAHQASLRKEQLRVDALERTLEQKNKEIEELTKICDE  
LIAKMGKS

>sp|P40200|TACT\_HUMAN T-cell surface protein tactile OS=Homo sapiens GN=CD96 PE=1 SV=2

MEKKWKYCAVYIIQIHFKGVWEKTVNTEENVYATLGSDVNLTCQTQTVGFFVQMWSK  
VTNKIDLIAVYHPQYGFYCAGRPCESLVTFTETPENGSKWTLHLRNMSCSVSGRYECML  
VLYPEGIQTKIYNLLIQTHVTADEWNSNHTIEIEINQTLIEPCFQNSSSKISSEFTYAWS  
VENSSTDSWVLLSKGIKEDNGTQETLISQNHLLISNSTLLKDRVKLGTDYRLHLSPVQIFD  
DGRKFSCHIRVGNPKILRSSTTVKVFAPKPIPVIVENNSTDVLVERRFTCLLKNVFPKAN  
ITWFDGSLHDEKEGIYITNEERKKGKDGFLKSVLTRVHSNKPASDNLTIWCMALSP  
VPGNKVWNISSEKITFLGSEISSTDPPLSVTESTLDTQSPASSVSPARYPATSSVTLV  
DVSALRPNTTPQPSNSSMTTRGFNYPWTSSGTDTKKSVSRIPSETYSSSPSGAGSTLHDN  
VFTSTARAFSEVPTTANGSTKTNHVHITGIVVNKPKDGMSWPVIVAALLFCCMILFGLGV  
RKWCQYQKEIMERPPPFKPPPPPIKYTCIQEPNESDLPYHEMETL

>sp|Q86TJ2|TAD2B\_HUMAN Transcriptional adapter 2-beta OS=Homo sapiens GN=TADA2B PE=1 SV=2

MAELGKKYCVYCLAIEVSPLRFRCTECQDIELCECFSSAGAEIGHHRRYHGYQLVDGGRFT  
LWGPEAEGGWTSSREEQLLLDAIEQFGFGNWEDMAAHVGASRTPQEVMEHYVSMYIHGNLG  
KACIPDTPINRVDHTCPSGGPLSPSLTTPPLPLDISVAEQQLGYMPLRDDYEIEYDQD  
AETLISGLSVNYDDDDVEIELKRAHVDYVRKLKERQRRKNIARDYNLVPFLGKDKKEK  
EKALKRKITKEEKELRLKLRLPYQFMSCKEFDDL FENMHKEKMLRAKIRELQRYRRNGIT  
KMEESAIEYAAARHKREKRKENKNLAGSKRGKEDGKDSEFAAIENLPGFELLSREKVLCS  
SLNLSPARYVTVKTIIDHLQKRQGIPSKSRLPSYLDKVLKKRILNFLTESGWISRDAS

>sp|Q15572|TAF1C\_HUMAN TATA box-binding protein-associated factor RNA polymerase I  
subunit C OS=Homo sapiens GN=TAF1C PE=1 SV=2

MDFPSSLRPALFLTGPLGLSDVPDLSFMCSWRDALTLPEAQPQNSENGALHVTKDLLWEP  
ATPGPLPMLPPLIDPWPGLTARDLLFRGGCRYRKRPRVVLDTVEQISRFLLDHGDVAFA  
PLGKLMLENFKLEGAGSRTKKKTIVSVKLLQDLGGHQPWGCPWAYLSNRQRRFSILGGP  
ILGTSVASHLAELLHEELVLRWEQLLLDEACTGGALAWVPGRTPQFGQLVYPAGGAQDRL  
HFQEVVLTPGDNPQFLGKPGRIQLQGPRVQVVTCTVQGESKALIYTFPLPHWLTCTYLTGP  
FHPSSALLAVRSDYHCAVWKFGKQWQPTLLQAMQVEKGATGISLSPHLPGELAICSRSGA  
VCLWSPEDGLRQIYRDPETLVFRDSSSWRWADFTAHPRVLTVDRTGVKMLDTQGPPGCG  
LLLFRLGAEASCQKGERVLLTQYLGHSSPKCLPPTLHLVCTQFSLYLVDERLPLVPMLKW  
NHGLPSPLLLARLLPPRPSCVQPLLLGGGGQLQLLHLAGEGASVPRLAGPPQSLPSRI  
DSLPAFPLLEPKIQWRLQERLKAPTIGLAAVPPPLPSAPTGLVLFQLSAAGDVFYQQLR  
PQVDSSLRRDAGPPGDTQPDCHAPTASWTSQDTAGCSQWLKALLKVPLAPPVWTAPTFTH  
RQMLGSTELRREEEGQLGVLRKAMARGQLLLQRDLGSLPAAEPPAPESGLEDKLSER  
LGEAWAGRGAAWWRQQGRTSEPGRQTRRPKRRTQLSSSFSLSGHVDPS EDTSSPHSPEW  
PPADALPLPPTTPPSQELTPDACAQGVPEQRQMLRDYMAKLPPQRDTPGCATTPPHSQA  
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>sp|O00268|TAF4\_HUMAN Transcription initiation factor TFIID subunit 4 OS=Homo sapiens  
GN=TAF4 PE=1 SV=2

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PPAAKLRPPEGSAGSCAPVAAAAVAAGPEPAPAGPAKPAAGPAALAAARAGPGPGPGPGP

GP GPGPGKPAGPGAAQTLNGSAALLNSHHAAAPAVSLVNNGPAALLPLPKAAPGTVIQT  
PPFVGAAAPPAPAAPSPPAAPAPAPAAAAPPPPPAPATLARPPGHPAGPPTAAPAVPPP  
AAQNGGSAGAAPAPAPAAGGPAGVSGPGPGAAAAAPAPGVKAESPKRVVQAAPPAAQT  
LAASGPASTAASMVIGPTMQGALPSPAAVPPPAPGTPTGLPKGAAGAVTQSLSRPTATT  
SGIRATLTPTVLAPRLPQPPQNPTNIQNFQLPPGMVLVRSENGQLLMIPQQALAQMQAQA  
HAQPQTTMAPRPATPTSAPPVQISTVQAPGTPIIARQVTPTTIKQVSQAQTTVQPSATL  
QRSPGVQPQLVLGGAQTASLGTATAVQTGTPTQRTVPGATTSSAATETMENVKCKNFL  
STLIKASSGKQSTETAANVKELVQNLLDGKIEAEDFTSRLYRELNSSPQPYLVPFLKRS  
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VLSLTQPTQVGVGKQGQPTPLVIQPPKPGALIRPPQVTLTQTPMVALRQPHNRIMLTTP  
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QEREILMRAAKSRSRQEDPEQLRLKQKAKEMQQELAQMRQRDANLTALAAIGPRKKRKV  
DCPGPGSGAEGSGPGSVVPGSSGVGTPRQFTRQRI TRVNLRDLIFCLENERETSHSLLLY  
KAFLK

>sp|Q9Y6J9|TAF6L\_HUMAN TAF6-like RNA polymerase II p300/CBP-associated factor-associated  
factor 65 kDa subunit 6L OS=Homo sapiens GN=TAF6L PE=1 SV=1  
MSEREERRFVEIPRESVRLMAESTGLELSDEVAALLAEDVCYRLREATQSSQFMKHTKR  
RKLTVEDFNRLRWSSVEAVCGYGSQEALPMRPAREGELYFPEDREVNLEVELALATNIPK  
GCAETAVRVHVSYLDGKGNLAPQGSVPSAVSSLTDDLKYHQQVTRAVLGDDPQLMKVAL  
QDLQTNISKIGALLPYFVYVVSQVSVSHDLEQLHRLQVARSLEFRNPHLCCLGPYVRCLVG  
SVLYCVLEPLAASINPLNDHWTLRDGAALLLSHIFWTHGDLVSGLYQHILLSLQKILADP  
VRPLCCHYGAVVGLHALGKKAVERVLYPHLSTYWTNLQAVLDDYSVSNAQVKADGHKVYG  
AILVAVERLLKMQAAEPNRRGGPGGRGCRRLDDLWDLSLLFQESSGGGAEPFSGSLP  
LPPGGAGPEDPSVTLADIYRELYAFFGDSLATRFGTGQPAPTAPRPPGDKKEPAAAPD  
SVRKMPQLTASAIVSPHGDSPRGSGGGGPASASGPAASESRPLPRVHRARGAPRQQGPG  
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>sp|A6NNZ2|TBB8L\_HUMAN Tubulin beta-8 chain-like protein LOC260334 OS=Homo sapiens PE=1  
SV=1  
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PRAVLVDLEPGTMDSVHSGPFGQVFRPDNFISGQCGAGNNWAKGRYTEGAELTESVMDVV  
RKEAESCDCLQGFLTHSLGGGTGSGMGTLLISKIREEYPDRIINTFSILPSKVSDTVV  
EPYNATLSVHQLIENADETFCIDNEALYDICSRTLKLPTPTYGDLNHLVSATMSGVTTCL  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVAELTQQMFDAKNMM  
AACDPRHGCYLTVAIFRGRMPMREVDEQMFNIQDKNSSYFADWFPDVKTAVCDIPPRG  
LKMSATFIGNNAIQELFTCVSEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
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>sp|Q9NVG8|TBC13\_HUMAN TBC1 domain family member 13 OS=Homo sapiens GN=TBC1D13 PE=1 SV=3  
MSSLHKSRIADFQDVLKEPSIALEKLRELSFSGIPCEGGLRCLCWKILLNYLPLERASWT  
SILAKQRELYAQFLREMIIPQGIAKANMGVSREDVTFEDHPLNPNPDSRWNTYFKDNEVL  
LQIDKDVRRCLPDISFFQRATDYPCLLILDPQNEFETLRKRVEQTTLKSQTVARNRSGVT  
NMSSPHKNSVPSSLNEYEVL PNGCEAHWEVVERILFIYAKLNPGIAYVQGMNEIVGPLYY

TFATDPNSEWKEHAEADTFFCFTNLMAEIRDNFIKSLDDSQCGITYKMEKVYSTLKDKDV  
ELYLKLQEQNIKPQFFAFRWLTLLLSQEFLLPDVIRIWDSL FADDNRFDLLL VCCAMLM  
LIREQLLEGDFTVNMRLQLDYPITDVCQILQKAKELQDSK

>sp|Q9P2M4|TBC14\_HUMAN TBC1 domain family member 14 OS=Homo sapiens GN=TBC1D14 PE=1 SV=3  
MTDGKLSSTNGVAFMGILDGRPGNPLQNLQHVNLKAPRLLSAPEYGPKLKLRALDRHS  
LQSVDSGIPTLEIGNPEPVPCSAVHVRKQSDSDLIPERAFQSACALPSCAPPAPSSTER  
EQSVRKSSSTFPRTYGYSVKLYSPTSKALTRSDDVSVCSVSSLGTELSTLSVSNEIDLDL  
VVTSSSSAIVTLENDDDPQFTNVTLSIKETRGLHQDCVHEAEEGSKLKILGPFSNFFA  
RNLLARKQSARLDKHNLDGWLFGKAPLRENAQKDSKRIQKEYEDKAGRPSKPPSPKQNV  
RKNLDFEPLSTTALILEDSPANLPAKPAEEAQHRQQYEEMVVQAKKRELKEAQRKKQL  
EERCRVEESIGNAVLTWNNEILPNWETMWCSRKVRDLWWQGIPPSVRGKVWSLAIGNELN  
ITHELFDICLAKERWRSLSSTGGSEVENEDAGFSAADREASLELIKLDISRTFPNLCIF  
QQGGPYHDMLSILGAYTCYRPDVGYVQGMSTIAAVLILNLDTADAFIAFSNLLNKPCQM  
AFFRVDHGLMLTYFAAEVFFEEENLPKLFAHFKNLTPDIYLIDWIFTLYSKSLPLDLA  
CRIWDVFCRDGEEFLFRALGILKLFEDILTKMDFIHMAQFLTRLPEDLPAEELFASIAT  
IQMQSRNKKWAQVLTALQKDSREMEKGSPLRH

>sp|Q8TBPO|TBC16\_HUMAN TBC1 domain family member 16 OS=Homo sapiens GN=TBC1D16 PE=2 SV=1  
MSLGRLLRRASSKASDLLTTPGGSGSGSPSVLDGEI IYSKNNVCVHPPEGLQGLGEHHP  
GYLCLYMEKDEMLGATLILAWVPNSRIQRQDEEALRYITPESSPVRKAPRPRGRTRSSG  
ASHQPSPTELRPTLTPKDEDILVVAQSVDRMLASPAPEDEEKLAQGLGVDGAQPASQPA  
CSPSGILSTVSPQDVTEEGREPRPEAGEEDGSLELSAEGVSRDSSFDSDTFSSPFCLS  
PISAALAESRGSVFLES DSSPPSSDAGLRFPSNGLLQTPRWDEPQRVCALEQICGVFR  
VDLGHMRSLRLFFSDEACTSGQLVVASRESQYKVFHFHHGGLDKLSDVFQQWKYCTEMQL  
KDQQVAPDKTCMQFSIRRPKLPSSETHPEESMYKRLGVS AWLNHLNELGQVEEYKLRKA  
IFFGGIDVSIRGEVWPFLRLRYSHSTSEEREALRLQKRKEYSEIQKRLSMTPEEHRAF  
WRNVQFTVDKDVVRTDRNNQFFRGEDNPVNESMRRILLNYAVYNPAVGYSQGMSDLVAPI  
LAEVLDES DTFWCFVGLMQNTIFVSSPRDEDMEKQLLYLRELLRLTHVRFYQHLVSLGED  
GLQMLFCHRWLLCFKREFPEAEALRIWEACWAHYQTDYFHLFICVAIVAIYGDDVIEQQ  
LATDQMLLHFGNLAHMNGELVLRKARSLLYQFRLPRIPCSLHDLCKLCGSGMWDSGSM  
PAVECTGHHPGSESCPYGGTVEMPSPKSLREGKKGPKTPQDGFGR

>sp|Q8IYX1|TBC21\_HUMAN TBC1 domain family member 21 OS=Homo sapiens GN=TBC1D21 PE=1 SV=1  
MTTLPENSLSARQSASFILVKRKPPIDKTEWDSFFDESGLAKSRDFICVNILERGLHP  
FVRTEAWKFLTGYFSWQSSQDERLTVDSMRKKNYKALCQMYEKIQPLENLHRNFTETRN  
NIARDIQKIYDKDPLGNVLIDKKRLEKILLSSYVCNTQAEYQQGFHEMMLFQLMVEHDH  
ETFWLQFQFLQKTEHSCVINIGVAKNLDMLSTLITFLDPVFAEHLKGKGAGAVQSLFPWF  
CFCFQRAFKSFDDVWRLWEVLLTGKPCRNFQVLVAYSMLQMVREQVLQESMGDDILLAC  
NNLIDLDADELISAACVVYAELIQKDVPQTLKDFFL

>sp|Q9NUY8|TBC23\_HUMAN TBC1 domain family member 23 OS=Homo sapiens GN=TBC1D23 PE=1 SV=3  
MAEGEDVPPLPTSSGDGWEKDL EEAEAGGCDLETLRNIIQGRPLPADLRAKVWKIALNV  
AGKGDSLASWDGILDLEQNTIHKDCLQFIDQLSVPEEKAAELLLDIESVITFYCKSRNI  
KYSTSLSWIHLKPLVHLQLPRSDLYNCFYAIMNKYIPRDCSQKGRPFHLFRLLIQYHEP  
ELCSYLDTKKITPDSYALNWLGS LFACYCSTEVTQAIWDGYLQQADPFFIYFLMLIILVN  
AKEVILTQESDSKEEVIKFLENTPSSLNIEDIEDLFSLAQYYCSKTPASFRKDNHHLFGS  
TLLGIKDDADLSQALCLAISVSEILQANQLQGEGRFFVVD CRPAEQYNAGHLSTAFHL

DSDLMLQNPSEFAQSVKSLLEAQKQSIESGSIAGGEHLCFMGSGREEEDMYMMVLAHFL  
QKNKEYVSIASGGFMALQQHLADINVDGPENGYGHWIASTSGSRSSINSVDGESPNGSSD  
RGMKSLVNMKTVALTKSVNVREKVISFIENTSTPVDRMSFNLWPDRSCTERHVSSDR  
VGKPYRGVKPVFSIGDEEYDTEIDSSMSDDDRKEVVNIQTWINKPDVKHHFPCKEVK  
ESGHMFPSHLLVTATHMYCLREIVSRKGLAYIQSRQALNSVVKITSKKKHPELITFKYGN  
SSASGIEILAERYLIPNAGDATKAIKQQIMKVLDALES

>sp|Q86UD7|TBC26\_HUMAN TBC1 domain family member 26 OS=Homo sapiens GN=TBC1D26 PE=2 SV=3  
MEMDGPYNLPAQQGNIIITKYEQGHRAAAGDLGHEQVDVRKYTNNGIVHEMELPHV  
SALEVKQRRESKRTNKWQKMLADWTYRSTKKLSQRVYKVIPLAVRGRAWSLLLDIDRI  
KSQNPQKQKVMKEKGKRSSRIIHCIQLDVSHTLQKHMMFIQRFQVQKQELCDILVAYSAY  
NPEVGYHRDLSRITAIIILLCLPEEDAFWALTQLLAGERHSLWYSTAQILPGSRGSYRTRS  
RCCTSPSQRS

>sp|Q9Y2I9|TBC30\_HUMAN TBC1 domain family member 30 OS=Homo sapiens GN=TBC1D30 PE=1 SV=2  
MDVLTPTGGGRPLRTELEFRGGGGEARLESQEEETIPAAPPAPRLRGAAPERPRSRD2WD  
GDEDETEPGEACGRTSRTASLVSGLLNELYSCTEEEEAAAGGGRGAEGRRRRRDSLDSSTE  
ASGSDVVLGGRSGAGDSRVLQELQERPSQRHQMLYLQKDANELKTIILRELKYRIGIQSA  
KLLRHLKQKDRLLHKVQRNCDIVTACLQAVSQKRRVDTKLKFTLEPSLGQNGFQQWYDAL  
KAVALSTGIPKEWRRKVWLTADHYLHSIAIDWDKTMRTFNERSNPDDDSMGIIQIVKD  
LHRTGCCSSYCGQAEQDRVVLKRVLLAYARWNKTVGYCQGFNILAALILEVMEGNEGDAL  
KIMIYILDKVLPESYFVNNLRALSVDMAVFRDLLRMKLPESQHLDTLQRTANKESGGGY  
EPPLTNVFTMQWFLTLFATCLPNQTVLKIWDSVFFEGSEIILRVSLAIWAKLGEQIECCE  
TADFYSTMGRLTQEMLENDLLQSHELMQTVYSMAFPFPQLAELREKYTYNITPFPATV  
KPTSVSGRHSKARDSDEENDPDDEDVNAVGLGPFSGFLAPELQKYQKQIKEPNEEQS  
LRSNNIAELSPGAINSCRSEYHAAFNMMMERMTTDINALKRQYSRIKKKQQQVHVQYI  
RADKGPVTSILPSQVNSSPVINHLLLGKKMKMTNRAAKNAVIHIPGHTGGKISPVPYEDL  
KTKLNSPWRTHIRVHKKNMPRTKSHPGCGDTVGLIDEQNEASKTNGLGAAEAFPSGCTAT  
AGREGSSPEGSTRRTIEGQSPEPVFGDADVDVSAVQAKLGALELNQRDAAAETELRVHPP  
CQRHCPEPPSAPEENKATSKAPQGSNSKTPIFSPFPSVKPLRKSATARNLGLYGPTERTP  
TVHFPQMSRSFSKPGGGNSGTKKR

>sp|Q6DHY5|TBC3G\_HUMAN TBC1 domain family member 3G OS=Homo sapiens GN=TBC1D3G PE=2 SV=2  
MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVNHLGIVHETELPPL  
TAREAKQIRREISRSKSWDMLGDWEKYSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEM  
KLKNPGRYQIMKEKGKRSEHIQRIDRDISGTLRKHMFFRDYGTKQRELLHILLAYEY  
NPEVGYCRDLSHIAALFLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLGCGCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLP  
AKPEQGSSASRPVPSRGGKTLCKGDRQAPPGPAPRPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSDQGTFFRAREDEQQCAPTSGPCLCGLHL  
ESSQFPFPGF

>sp|Q6ZT07|TBCD9\_HUMAN TBC1 domain family member 9 OS=Homo sapiens GN=TBC1D9 PE=2 SV=2  
MWVNPEEVLLANALWITERANPYFILQRRKGHAGDGGGGGLAGLLVGTLDVVLDSARV  
APYRILYQTPDSLVYWTIACGGSKEITEHWEWLEQNLLQTLISIFENENDITTFVRGKI  
GIIAEYNKINDVKEDDDTEKFKEAIVKFHRLFGMPREEKLVNYYSCSYWKGKVPRQGWMY

LSINHLCFYSFLMGREAKLVIRWVDITQLEKNATLLLPDVIKVSTRSSEHFFSVFLNINE  
TFKLMEQLANIAMRQLLDNEGFEQDRSLPKLKRKSPKKVSALKRDLARAKSERYRALFR  
LPKDEKLDGHTDCTLWTPFNKMHILGQMFVSTNYICFTSKEENLCSLI IPLREVTIVEKA  
DSSSVLPSPLSISTRNRMFTLFANLKDRDFLVQRISDFLQQTTSKIYSDKEFAGSYNSSD  
DEVYSRPSSSLVSSSPQRSTSSDADGERQFNLNGNSVPTATQTLMTMYRRRSPEEFNPKLA  
KEFLKEQAWKIHFAEYGGGICMYRTEKTRELVLKGIPESMRGELWLLLSGAINKATHPG  
YYEDLVEKSMGKYNLATEEIERDLHRSLPEHPAFQNMGIAALRRVLTAYAFRNPNI GYC  
QAMNIVTSVLLLYAKEEEAFWLLVALCERMLPDYYNTRVVGALVDQGVFEELARDYVPQL  
YDCMQDLGVISTISLSWFLTLFLSVMPFESAVVVVDCFFYEGIKVIFQLALAVLDANVDK  
LLNCKDDGEAMTVLGRYLD SVTNKDSTLPP IPHLSLLSDDVEPYPEVDIFRLIRTSYEK  
FGTIRADLIEQMRFKQRLKVIQTELEDTTKRNVVRTIVTETSFTIDELEELYALFKAHLT  
SCYWGSSNALDRHDPSPYLEQYRIDFEQFKGMFALLFPWACGTHSDVLASRLFQLLDE  
NGDSLINFRE FVSGLSAACHGDLTEKLLKYMHVLPPESSDQDEPDSAFEATQYFFEDI  
TPECTHVVG LDSRSKQGADDFVTVSLKPKDGKRANSQENRNYLR LWTPENKSKSKNAKD  
LPKLNQGFIELCKTMYNMFSEDPNEQELYHATAAVTSLLEIGEVGKLFVAQPAKEGGS  
GGSGPSCHQGIPGVLFPPKGGQPYVVESVEPLPASLAPDSEHSLGGQMEDIKLEDSSP  
RDNGACSSMLISDDDTKDDSSMSSYSVLSAGSHEEDKLHCEDIGEDTVLVRSGQGTALP  
RSTSLDRDWAITFEQFLASLLTEPALVKYFDKPVCMMARITSAKNIRMMGKPLTSASDYE  
ISAMSG

>sp|Q9BYX2|TBD2A\_HUMAN TBC1 domain family member 2A OS=Homo sapiens GN=TBC1D2 PE=1 SV=3

MEGAGENAPESSSSAPGSEESARDPQVPPPEEESGDCARSLEAVPKKLCGYLSKFGGKGP  
IRGWKSRWFFYDERKCQLYYSRTAQDANPLDSIDLSSAVFDCKADAEEGIFEIKTPSRVI  
TLKAATKQAMLYWLQQLQMKRWEFHNSPPAPPATPDAALAGNGPVLHLELGQEEAELEEF  
LCPVKTPPGVLGVAAALQFPFALQNISLKH LGTEIQNTMHNIRGNKQAQGTGHEPPGEDS  
PQSGEPQREEQPLASDASTPGREPEDSPKPAPKPSLTISFAQKAKRQNNTFPFFSEGITR  
NRTAQEKVAALEQQVLM LTKELKSQKELVKILHKALEAAQKEKRASSAYLAAAEDKDRLE  
LVRHKVRQIAELGRRVEALEQERESLAHTASLREQQVQELQQHVQLLMDKNHAKQQVICK  
LSEKVTQDFTHPPDQSP LRPDAANRDFLSQQGKIEHLKDDMEAYRTQNCFLNSEIHQVTK  
IWRKVAEKEKALLTKCAYLQARNCQVESKYLAGLRR LQEALGDEASECSELLRQLVQEAL  
QWEAGEASSDSIELSPISKYDEYGFLTVPDYEVEDLKLLAKIQALESRSHHLLGLEAVDR  
PLRERWAALGDLVPSAELKQLLRAGVPREHRPRVWRWL VHLRVQHLHTPGCYQELLSRGQ  
AREHPAARQIELDLNRTFPNNKHFTCPTSSFPDKLRRVLLAFSWQNPTIGYCQGLNRLAA  
IALLVLEEEESAFWCLVAIVETIMPADYYCNTLTASQVDQRVLQDLLSEKLPRLMAHLGQ  
HHVDLSLVTFNWFVVFADSLISNILLRVWDAFLYEGTKVVFRYALAI FKYNEKEILRLQ  
NGLEIYQYLRFFTKTISNSRKL MNIAFNDMNPFRMKQLRQLRMVHRERLEAELRELEQLK  
AEYLERRASRRRAVSEGCASEDEVEGEA

>sp|Q9UJT0|TBE\_HUMAN Tubulin epsilon chain OS=Homo sapiens GN=TUBE1 PE=2 SV=1

MTQSVVVQVGQCGNQIGCCFWDLALREHAAVNQKGIYDEAISSFFRNV DTRVVG DGGGIS  
KGKICSLKARAVLIDMEEGVVNEILQGPLRDVFDTKQLITDISGSGNNWAVGHKVFGLY  
QDQILEKFRKSAEHCDLQCFI IHSMGGGTGSGLGTFLLKVLEDEFPEVYRFVTSIYPS  
GEDDVITSPYNSILAMKELNEHADCVLPIDNQSLFDIISKIDLMVNSGKLGTTVKPKSLV  
TSSSGALKKQHKKPF DAMNNIVANLLNL TSSARFEGSLNMDLNEISMNLVPFPQLHYLV  
SSLTPLYTLTDVNIPRRLDQMFSDAFSKDHQLLRADPKHSY LACALMVRGNVQISDLR  
RNIERLKPSLQFVSWNQEGWKTSLCSVPPVGHSHSLLALANNTCVKPTFMELKERFMRLY



KKKAHLHHYLQVEGMEESCFTAVSSLSALIQEYDQLDATKNMPVQDLPRLSIAM

>sp|Q9UHD2|TBK1\_HUMAN Serine/threonine-protein kinase TBK1 OS=Homo sapiens GN=TBK1 PE=1 SV=1

MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLFAIKVFNNISFLRPVDVQMREFEVLK  
KLNHNKIVKLFAlEEETTRHKVLIMEFCPCGSLYTVLEEPSNAYGLPESEFLIVLRDVV  
GGMNHLRENGIVHRDIKPGNIMRVIGEDGQSVYKLTDFGAARELEDEQFVSLYGTEEYL  
HPDMYERAVLRKDHQKYGATVDLWSIGVTFYHAATGSLPFRPFEGPRRNKEVMYKIITG  
KPSGAISGVQKAENGPIDWSGDMPVSCSLSRGLQVLLTPVLANILEADQEKCWGFDQFFA  
ETSDILHRMVIHVFSLQQMTAHKIYIHSYNTATIFHELVKYQTKIISNQELIYEGRRLV  
LEPGRLAQHFPKTTEENPIFVVSREPLNTIGLIYEKISLPKVHPRYDLGDASMAKAITG  
VVCIACRIASTLLLYQELMRKGIRWLIELIKDDYNETVHKKTEVVITLDFCIRNIEKTVK  
VYEKLMKINLEAAELGEISDIHTKLLRLSSSQGTIETSLQDIDSRLSPGGSLADAWAHQE  
GTHPKDRNVEKLQVLLNCMTEIYYQFKDKAERRLAYNEEQIHKFDKQKLYYHATKAMTH  
FTDECVKKYEAFLNKSEEWIRKMLHLRKQLSLTNQCFDIEEEVSKYQEYTNELQETLPQ  
KMFTASSGIKHTMTPIYPSSNTLVEMTLGMKKLKEEMEGVVKELAENNHILERFGSLTMD  
GGLRNVDCI

>sp|Q16650|TBR1\_HUMAN T-box brain protein 1 OS=Homo sapiens GN=TBR1 PE=2 SV=1

MQLEHCLSPSIMLSKKFLNVSSSYPHSGGSELVLHDHPIISTTDNLERSPLKKITRGMT  
NQSDTDNFPDSKDSFGDVQRSKLSPLVDGVSELRHSFDGSAADRYLLSQSSQPQSAATAP  
SAMFPYPGQHGAHPAFSIGSPSRMAHHPVITNGAYNSLLSNSSPQGYPTAGYPYPQQY  
GHSYQGAPFYQFSSTQPLVPGKAQVYLCNRPLWLKFHRHQTEMIITKQGRRMFPFLSFN  
ISGLDPTAHYNIFVDVILADPNHWRFGGKWWPCGKADTNVQGNRVYMHPDSPNTGAHWM  
RQEISFGKLKLNNKGASNNNGQMVVLQSLHKYQPRLVHVEVNEDGTEDTSQGRVQTFT  
FPETQFIAVTAYQNTDITQLKIDHNPFAGKFRDNYDTIYTGCDMDRLTPSPNDSPRSQIV  
PGARYAMAGSFLQDFVSNYAKARFHPGAGAGPGGTDRSVPHNTGLLSPQQAEDPGAPS  
PQRWFVTPANNRLDFAASAYDTATDFAGNAATLLSYAAAGVKALPLQAAGCTGRPLGYA  
DPSGWGARSPPYCGTKSGSVLPCWPNSAAAAARMAGANPYLGEEAEGLAERSPLPPGA  
AEDAKPKDLSDSWIETPSSIKSIDSSDSGIYEQAKRRRISPADTPVSESSSPLKSEVLA  
QRDCEKNCAKDISGYYGFYSHS

>sp|Q9UL17|TBX21\_HUMAN T-box transcription factor TBX21 OS=Homo sapiens GN=TBX21 PE=2 SV=1

MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYPEPGAQDADERGGGSLGSPYPG  
GALVPAPPSRFLGAYAYPPRPQAAGFPGAGESFPPPADAEYQPGEGYAAPDPRAGLYPG  
PREDYALPAGLEVSGKLRVALNNHLLWSKFNQHQTEMIITKQGRRMFPFLSFTVAGLEPT  
SHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMGNRLVHPDSPNTGAHWMRQEVSG  
KLKLNNKGASNNVTQMIVLQSLHKYQPRLVHVEVNDGEPEAACNASNTHIFTFQETQFI  
AVTAYQNAEITQLKIDNNPFAGKFRENFESMYTSVDTIPSPPGPNQFLGGDHYSPLLP  
NQYPVPSRFYFDLPQAKDVVPQAYWLGAPRDHSYAEFRAVSMKPAFLPSAPGPTMSYY  
RGQEVLPAGAGWPVAPQYPPKMGPAWFRPMRTLPMEPGPGGSEGRGPEDQGPPLWTEI  
APIRPESSDSGLGEGDSKRRRVSPYPSSGSSSPAGAPSPFDKEAGQFYNYFPN

>sp|P57082|TBX4\_HUMAN T-box transcription factor TBX4 OS=Homo sapiens GN=TBX4 PE=1 SV=2

MLQDKGLSESEEAAPGALGEASANAPEPALAAGLSGAALGSPPGPGADVAAAAA  
EQTIENTIKVGLHEKELWKKFHEAGTEMIITKAGRRMFPSYKVKVTGMNPKTKYILLIDIV  
PADDHRYKFCDNKWMVAGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLKLNNHLDLP

FGHIILNSMHKYQPR LHIVKADENNAFGSKNTAFCTHVPETSFISVTSYQNHKITQLKI  
ENNPFAKGFRGSDSDLRVARLQSKEYPVISKSIMRQLISPQLSATPDVGPLLGTHQAL  
QHYQHENGASQLAEPQDLPLSTFPTQRDSSLFYHCLKRRDGRHLDLPCRSYLEAPSS  
VGEDHYFRSPPPYDQMLSPSYCSEVTPREACMYSGSGPEIAGVSGVDDLPPPLSCNMW  
TSVSPYTSYSVQTMETVPYQPFPTHFTATTMPRLPTLSAQSSQPPGNAHFSVYNQLSQS  
QVRERGPSASFPRERGLPQGGERKPPSPHLNAANEFLYSQTFSLSRESSLQYHSGMGTV  
NWTDG

>sp|Q5QJ38|TCHL1\_HUMAN Trichohyalin-like protein 1 OS=Homo sapiens GN=TCHHL1 PE=2 SV=1

MPQLLRNVLCVIETFHKYASEDSNGATLTGRELKQLIQGEFGDFQPCVLHAVEKNSNLL  
NIDSNGLISFDEFVLAIFNLLNLCYLDIKSLSSSELRQVTKPEKEKLDDVDVQATTGDGQ  
WTVGTSPTQEKRMPLPSGMASSSQLIPEESGAVGNNRVDPWREAKTHNFPGEASEHNDPKN  
KHLEGDEQSQEV AQDIQTEDNEGQLKTNKPMAGSKKTSSPTERKGQDKEISQEGDEPAR  
EQSVSKIRDQFGEQEGNLATQSSPPKEATQRPCEDQEV RTEKEKHSNIQEPPLQREDEPS  
SQHADLPEQAAARSPSQTKSTDSKDVCRMFDTPQEPGKDADQTPAKTKNLGEPEDYGRS  
ETQEKECETKDLVPYQYSRNGSETSDMRDERKERRGPEAHGTAGQKERDRKTRPLVLETQ  
TQDGKYQELQGLSKSKDAEKGETQYLSSEGGDQTHPELEGTAVSGEEAEHTKEGTAEAF  
VNSKNAPAAERTLGARERTQDLAPLEKQSVGENTRVTKTHDQPV EEDGYQGEDPESPF  
QSDGSSSETPNLASEEGNSSSETGELPVQGDSQSQGDQHGESVQGGHNNPDTQRQGTP  
GEKNRALEAVVPAVRGEDVQLTEDQEQPARGEHKNQGPGTKGPGA AVEPNGHPEAQESTA  
GDENRKSLEIEITGALDEDFTDQLSLMQLPGKGDSRNELKVQGPSSKEEKGRATEAQNTL  
LESLEDENSASLKIQLETKEPVTSEEDESPQELAGEGGDQKSPAKKEHNSSVPWSSLEK  
QMQRDQEPSCSVERGAVYSSPLYQYLQEKILQQTNTVQEEHQKQVQIAQASGP ELCSVSLT  
SEISDCSVFFNYSQASQPYTRGLPLDESPAGAQETPAPQALEDKQGHPQRERLVLQREAS  
TTKQ

>sp|Q9BT92|TCHP\_HUMAN Trichoplein keratin filament-binding protein OS=Homo sapiens  
GN=TCHP PE=1 SV=1

MALPTLPSYWCSQQRLNQQLARQREQEARLRQQWEQNSRYFRMSDICSSKQAEWSSKTSY  
QRSMHAYQREKMKEEKRRSLEARREKLRQLMQEEQDLLARELEELRLSMNLQERRIREQH  
GKLKSAKEEQRLIAEQLLYEHWKNNPKLREMELDLHQKHVNSWEMQKEKKQQEATA  
EQENKRYEN EYERARREALERMKAEEERRQLEDKLQAEALLQQMEELKLKEVEATKLKKE  
QENLLKQRWELERLEERKQMEAFRQKAELGRFLRHQYNAQLSRRTQQIQEELEADRRIL  
QALLEKEDESQRLHLARREQVMADV AWMKQATIEQLQLERAREAEQMLLREEAKEMWEK  
REAEWARERSARDRLMSEVLTGRQQQIQEKIEQNRRAQEE SLKHREQLIRNLEEVR ELAR  
REKEESEKLKSARKQELEAQAERRLQAW EADQQEEEEEEARRVEQLSDALLQQAETM  
AEQGYRPPKPYGHPKIAWN

>sp|P56279|TCL1A\_HUMAN T-cell leukemia/lymphoma protein 1A OS=Homo sapiens GN=TCL1A PE=1  
SV=1

MAECP TLGEAVTDHPDLRWAW EK FVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGR  
PMTPTQIGPSLLPIMWQLYPDGRYRSSDSSFWR LVYHIKIDGVEDMLLELLPDD

>sp|O95988|TCL1B\_HUMAN T-cell leukemia/lymphoma protein 1B OS=Homo sapiens GN=TCL1B PE=1  
SV=1

MASEASVRLGVPPGRLWIQRPGIYEDEEGRTWVTVVVRFNPSRREWARASQGSRYEPSIT  
VHLWQMAVHTRELLSSGQMPFSQLPAVWQLYPGRKYRAADSSFW E IADHGQIDSMEQLVL  
TYQPERKD

>sp|P20061|TCO1\_HUMAN Transcobalamin-1 OS=Homo sapiens GN=TCN1 PE=1 SV=2

MRQSHQLPLVGLLLFSFIPSQLCEICEVSEENYIRLKPLLNTMIQSNYNRGTSAVNVVLS  
LKLVGIIQITLMQKMIQIKYNVKSRLSDVSSGELALIIILALGVCRAEENLIYDYHLID  
KLENKFQAEIENMEAHNGTPLTNYYQLSLDLALCLFNGNYSTAEVNVHFTPENKNYYFG  
SQFSVDTGAMAVLALTCVKKSLINGQIKADEGSLKNISITKSLVEKILSEKKENGLIGN  
TFSTGEAMQALFVSSDYNNENDWNCQQTLNLTVLTEISQGAFSNPNAQAQVLPALMGKFTL  
DINKDSSCVSASGNFNISADEPITVTPPDSQSYISVNSVRINETYFTNVTVLNGSVFSL  
VMEKAQKMNDTIFGFTMEERSWGPYITCIQGLCANNDRITYWELLSGGEPLSQGAGSYVV  
RNGENLEVRWSKY

>sp|B9ZVM9|TCP2L\_HUMAN T-complex protein 10A homolog 2 OS=Homo sapiens GN=TCP10L2 PE=3  
SV=2

MLEGQLEAREPKEGTHPEDPCPGAGAAMEKTPAAA EVPREDSNAGEMPSLQQQITSLHQE  
LGRQQSLWADIHRKLQSHMDALRKQRELREELRGLQRQQWEAGKKPAASPHAGRESHTL  
ALEPAFGKISPLSADEETTPKYAGRKSQSATLLGQRWSSNHLAPPKMSLKTERINSGKT  
PPQEDREKSPPGRRQDRSPAPTGRPTGAERREVS EDGKIMHPSSRSLQNSGGRKSPVQA  
SQAATLQEQTAAAGVADRSSSVLGSSEGGFLSRVQAEEFASSSPDSAERQNLVPNPPSSL  
EIAQAMDTKMKKEEVQEERHPNGKADDCRRSGFPSEFP GALHAAPSRQDMGP

>sp|P53999|TCP4\_HUMAN Activated RNA polymerase II transcriptional coactivator p15 OS=Homo  
sapiens GN=SUB1 PE=1 SV=3

MPKSKELVSSSSSGSDSEVDKKLRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRD  
DNMFQIGKMRYVSVRDFKGVLLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDI  
DDAVRKL

>sp|Q8IYR6|TEFF1\_HUMAN Tomoregulin-1 OS=Homo sapiens GN=TMEFF1 PE=1 SV=1

MGAAAAEAPLRLPAAPPLAFCCYTSVLLLFASFSLPGSRASNQPPGGGGSGGDCPGGKGK  
SINCSELNVRESDRVRCDESSCKYGGVCKEDGDGLKACQFQCHTNYIPVCGSNGDTYQN  
ECFLRRAACKHQKEITVIARGPCYSDNGSGSGEGEEGSGAEVHRKHSKCGPCKYAECD  
EDAENVGVCVNIDCSGYSFNPVCASDGSSYNPCFVREASCIKQEQIDIRHLGHCTD TDD  
TSLLGKKDDGLQYRPDVKDASDQREDVYIGNHMPENLNGYCIHGKCEFIYSTQKASCR  
CESGYTGQHCEKTD FSILYVVP SRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNR  
GRRQKQNLGHFTSDTSSRMV

>sp|Q6URK8|TEPP\_HUMAN Testis, prostate and placenta-expressed protein OS=Homo sapiens  
GN=TEPP PE=2 SV=3

MGIVCAQCSFILLLSIIRARPPFLFCPLSSQRTESPYKPVHLGLGPTDKVAAIAMARI I  
DLVPWDDGSTHYVASPAILLPMERQRNQLAGVKQQLYHPALPTLRHMDRDTVKACLPDEH  
CQSTTYCRKDEFD NAHFTLLGVPNKPLQCLDITATGQKLNRNYHEGKLAPIAPGINRVDW  
PCFTRAIEDWSHFVSSAGEFKLPCLRKRAEGLSGYAVRYLKP DVTQTWRYCLSQNPSLDR  
YGQKPLPFDSLNTFRSFGSSYSRVNYLTPWH

>sp|A2RU30|TESP1\_HUMAN Protein TESPA1 OS=Homo sapiens GN=TESPA1 PE=1 SV=2

MEASVLSPTSWEKRRALRQSRNWQTQVLEEEAAAALQDVPDPEPSSLDDVFQEGNPINK  
IEDWLQDCGYSEEGFSEEAGQFIYNGFCSHGTSFEDDLTLGAEATLLAANGKLF SRSFLE  
TARPCQLLDLGCSLASSMTGGTNKTSSSISEILDKVQEDAEDVLFSLGFGQEDHKDTSR  
IPARFFTTPSQAKGIDFQLFLKSQVRR IEMEDPCLMLASRFKQVQTLAVTADAFFCLYSY  
VSKTPVQKFTPSHMFWNCNHPTDVPSIRILSREPEPQSPRDRLKAISKMCLYT CPRDRP  
PPPHNTPKRNSLDQVVLEVMDKVKEEKQFLQQDSDLGQFSQEDPVPPAEGKKLPTSPYPC

VFCCEEETQQRMSVTLAPSQTLDSPKVPCCTHSLPIEDPQWSTDPAQIRRELCSLPATN  
TETHPAKDETFWKRKSRARKSLFQKNLMGRKVKSLDLSITQQKWKQSVDRPELRRSLSQQ  
PQDTFDLEEVQSNSEEEQSQRWPSRPRHPHHHQTFAKDS

>sp|Q9NXF1|TEX10\_HUMAN Testis-expressed sequence 10 protein OS=Homo sapiens GN=TEX10 PE=1  
SV=2

MTKKRRKQHDFQKVKLVGKKKPKLQNA TP TNFKTKT IHLPEQLKEDGTLPTNNRKLNIK  
DLLSQMHYNAGVKQSALLGLDLLSQYPFIIDAHLSNILEVTAVFTDKDANVRLAAVQ  
LLQFLAPKIRAEQISPFPLVSAHLSSAMTHITEGIEQEDSLKVL DILLEQYPALITGRSS  
ILLKNFVELISHQQLSKGLINRDRSQSWILSVNPNRRLTSQQWRLKVLVRLSKFLQALAD  
GSSRLRESEGLQEKENPHATSNSIFINWKEHANDQQHIQVYENGGSQPNVSSQFRLRYL  
VGGLSGVDEGLSSTENLKGFIETIIPLLIECWVEAVPPQLATPVNGIEREPLQVMQQVL  
NIISLLWKLKSKQDETHKLESWLRKNYLIDFKHHFMSRFPYVKEITKHKRKEPNKSIKH  
CTVLSNNIDHLLNLTLSDIMVSLANASTLQKDCSWIEMIRKFVTETLEDGSR LNSKQLN  
RLLGVSWRLMQIQPNREDETETLIKAVYTLYQQRGLILPVRTL LKFFSKIYQTEELRSCR  
FRYRSKVL SRWLAGLPLQLAHLGSRNPELSTQLIDIHTAAARANKELLKSLQATALRIY  
DPQEGAVVVLPADSQQRLVQLVYFLPSLPADLLSRLSRCCIMGRLSSSLAAMLIGILHMR  
SSFSGWKYSKDWLMSD VDYFSFLSTLTGFSKEELTWLQSLRGVPHVIQTQLSPVLLYL  
TDLDQFLHHWDVTEAVFHSLLVIPARSQNF DILQSAISKHLVGLTVIPDSTAGCVFGVIC  
KLLDHTCVVSETLLPFLASCCYSLLYFLLTIEKGAEHLRKRDKLWGVCVSILALLPRVL  
RLMLQSLRVNRVGPEELPVVGQLRLRLQLHAPLRTHMLTNAILVQQIIKNITTLKSGSVQ  
EQWLTDLHYCFNVYITGHPQGPSALATVY

>sp|C9J3V5|TEX22\_HUMAN Testis-expressed sequence 22 protein OS=Homo sapiens GN=TEX22 PE=2  
SV=1

MDSRKLSPRGKKLESHLSQEHRRPPLGLIAAWGQPSIQSSVQQGLQTQDWVCEPPERRRP  
GRRWSVSIDERRRLATLGGRRERPGAAGTQLHCRDVVQMV AQLVSEDVDKDVLLPHPLRST  
ESTNAFQAFLARSAPFWHNATFEASRSPPS

>sp|Q8N6G2|TEX26\_HUMAN Testis-expressed sequence 26 protein OS=Homo sapiens GN=TEX26 PE=2  
SV=1

MEQGP RPAPDPSLCHHNLQPTDDPNWDSYATTMRTAFTPKTGAVPALIRQNGIRRLGYTY  
SLSDPILNQTYSD EYTWKSHSKEDLIK TETSRGIKSHKSHLNEDIFLWTLPHCQQTGTL  
KNCLPWKIPASMKEVNKALSNQFISLTKRDFVDRSKAQKIKKSSHLSLEWKKLLPQPPDT  
EFRNNYQIPAKIPELQDFSFKYGCYSSLPVASQGLVPSVLHSYLRNQEHTKKQTTYQSDY  
DKTYPDFLMLNSFTSSQVKEYLQSLSYKDRQIIDRFIRTHCDTNK KKK

>sp|Q8N6K0|TEX29\_HUMAN Testis-expressed sequence 29 protein OS=Homo sapiens GN=TEX29 PE=2  
SV=1

MEYVLEVKN SPRHLLKQFTVCDVPLYDICDYNVSRDRCQELGCCFYEGVCYKKAVPIYIH  
VFSALIVIIAGAFVITIIYRVIQESRKEKAIPVDVALPQKSSEKAELASSSSKLGLKPAS  
PGPPSAGPSMKSD EDKDDVTGTITEAEETED

>sp|Q5JUR7|TEX30\_HUMAN Testis-expressed sequence 30 protein OS=Homo sapiens GN=TEX30 PE=2  
SV=1

MSHTEVKLKIPFGNKLLDAVCLVPNKSLTYGIILTHGASGDMNLPHLMSLASHLASHGFF  
CLRF TCKGLNIVHRIKAYKSVLNYLKTSGEYKLAGVFLGGRSMGSR AAASVMCHIEPDDG  
DDFVRGLICISYPLHHPKQHQHKL RDEDLFRLKEPVLFVSGSADEMCEKNLLEKVAQKMQA  
PHKIHWIEKANHSMVKG RSTNDVFKEINTQILFWIQEITEMDKKCH

>sp|Q5T0J7|TEX35\_HUMAN Testis-expressed sequence 35 protein OS=Homo sapiens GN=Tex35 PE=2 SV=1

MSAKRAELKKTHLSKNYKAVCLELKPEPTKTFDYKAVKQEGRFTKAGVTQDLKNELREVR  
EELKEKMEEIKQIKDLMDKDFDKLHEFVEIMKEMQKDMDEKMDILINTQKNYKLPLRRAP  
KEQQELRLMGKTHREPQLRPKKMDGASGVNGAPCALHKKTMAPQKTKQGSLDPLHHCUTC  
CEKCLLCALKNNYNRGNIPSEASGLYKGGEPPVTTQPSVGHAVPAPKSQTEGR

>sp|P52655|TF2AA\_HUMAN Transcription initiation factor IIA subunit 1 OS=Homo sapiens GN=GTF2A1 PE=1 SV=1

MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRVADGFH  
SEEQQLLLQVQQQHQPQQQHHHHHHHQAQPPQQTVPQQAQTQQVLIPASQQATAPQVIV  
PDSKLIQHNASNMSAAATAATLALPAGVTPVQQILTNSGQLLQVVRAANGAQYIFQPQQ  
SVVLQQQVIPQMPPGGVQAPVIQQVLAPLPGGISPQTGVIIQPQQILFTGNKTQVIPTTV  
AAPTQAQAQITATGQQQPQAQPAQTQAPLVLQVDGTGDTSSSEDEDEEEDYDDDEEEDKE  
KDGAEDGQVEEPLNSEDDVSDEEGQELFDTENVVVCQYDKIHRSKNKWKFHLKDGIMNL  
NGRDYIFSKAIGDAEW

>sp|Q00403|TF2B\_HUMAN Transcription initiation factor IIB OS=Homo sapiens GN=GTF2B PE=1 SV=1

MASTRLDALPRVTCPNHPDAILVEDYRAGDMICPECGLVVGDRVIDVGSEWRTFSNDKA  
TKDPSRVGDSQNPLLSGDGLSTMIGKGTGAASFDEFGNSKYQNRRTMSSSDRAMNFAKE  
ITTMADRINLPRNIVDRTNLFFQVYEQSLKGRANDAIASACLYIACRQEGVPRTFKEI  
CAVSRISKKEIGRCFKLILKALETSDVLTITGDFMSRFSNLCLPKQVQMAATHIARKAV  
ELDLVPGRSPISVAAAAIYMASQASAEKRTQKEIGDIAGVADVTIRQSYRLIYPRAPDLF  
PTDFKFDTVPDKLPQL

>sp|Q13889|TF2H3\_HUMAN General transcription factor IIH subunit 3 OS=Homo sapiens GN=GTF2H3 PE=1 SV=2

MVSEDEELNLLVIVVDANPIWGWKQALKESQFTLSKCIDAVMVLGNSHLFMNRSNKLAVI  
ASHIQESRFLYPGKNGRLGDFGDPGNPPEFNPSGSKDGKYELLTSANEVIVEEIKDLMT  
KSDIKGQHTETLLAGSLAKALCYIHRMNKEVKDNQEMKSRILVIKAAEDSALQYMFNMV  
IFAAQKQNILIDACVLDSDSLGLLQACDITGGLYLKVPQMPSLLQYLLWVFLPDQDQRSQ  
LILPPP VHVDYRAACFCHRNLEIGYVCSVCLSFICNFSPICTTCTAFKISLPPVLKAK  
KKKLKVSA

>sp|Q9Y5Q8|TF3C5\_HUMAN General transcription factor 3C polypeptide 5 OS=Homo sapiens GN=GTF3C5 PE=1 SV=2

MAAEAADLGLGAAPVELRRERRMVCVEYPGVVRDVAKMLPTLGGEESVRIYADPTKRL  
ELYFRPKDPYCHPVCANRFSTSSLLLRIRKRTRRQKGVLGTEAHSEVTFDMEILGIISTI  
YKFQGMDSDFQYLAVHTEAGGKHTSMYDKVLMRLPEKEAFFHQELPLYIPPIFSRLDAPV  
DYFYRPETQHREGYNPPISGENLIGLSRARRPHNAIFVNFEEDEVPKQPLEAAQWRR  
VCTNPVDRKVEEELRKLFDIRIWSRNAVKANISVHPDKLVLLPFIAYYMITGPWRSLW  
IRFGYDPRKNPDAKIYQVLDFRIRCGMKHGYAPSDLPVKAKRSTYNYSLPITVKKTSQSL  
VTMHDLKQGLPGSGTSGARKPASSKYKLKDSVYIFREGALPPYRQMFYQLCDLNVEELQK  
IIHRNDGAENSCTERDGCWCLPKTSDELRTMSLMIRQTIIRSKRPALFSSSAKADGGKEQL  
TYESGEDEDEEEEEEEEDFKPSDGSSENEEMETEILDYV

>sp|Q8WVM0|TFB1M\_HUMAN Dimethyladenosine transferase 1, mitochondrial OS=Homo sapiens GN=TFB1M PE=1 SV=1

MAASGKLSTCRLPPLPTIREIIKLLRLQAAKQLSQNFLDLRLTDKIVRKAGNLTNAYVY  
EVGPGPGGITRSLNADVAELLVVEKDTRFIPGLQMLSDAAPGKLRIVHGDVLTfkVEKA  
FSESLKRPWEDDPNVHIIIGNLPFSVSTPLIIKWLENISCRDGPfVYGRtQMTLTFQKEV  
AERLAANTGSKQRSRLSVMAQYLCNVRHIFTIPGQAFVPKPEVDVGvVHFTPLIqPKIEQ  
PFKLVEKVVQNVFQFRrKYCHrGLRMLFPEAQrLESTGRlLELADIDPTLRPRQLSISHF  
KSLCDVYRKMCDEDPQLFAYNFREELKRRKSKNEEKEEDDAENYRL

>sp|P15923|TFE2\_HUMAN Transcription factor E2-alpha OS=Homo sapiens GN=TCF3 PE=1 SV=1

MNQPQRMAPVGTDKELSDLLDFSMFPLPVTNGKGRPASLAGAQFGSGLED RPSSGSWG  
SGDQSSSSFDPSRTFSEGTHFTESHSSLSSTFLGPGLGGKSGERGAYASFGRDAGVGGL  
TQAGFLSGELALNSPGPLSPSGMKGTSQYYPSYSGSSRRRAADGSLDTQPKKVRKVPPGL  
PSSVYPPSSGEDYGRDATAYPsAKTPSSSTYPAPFYVADGSLHPSAELWSPPGQAGFGPML  
GGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMGYQLHGAEVNGLPSASSFSSAPGAT  
YGGVSSHTPPVSGADSLGSRGTTAGSSGDALGKALASIYSPDHSSNNFSSSPSTPVGSP  
QGLAGTSQWPRAGAPGALSPSYDGGLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLP  
GHGALASGFTGPMsLGGRHAGLVGGSHPEDGLAGSTSLMHNHAALPSQPGTLPDLsRPPD  
SYSGLGRAGATAAASEIKREEKEDEENTSAADHSEEEKELKAPRARTSPDEDEDLLPP  
EQKAEREKERRVANNARERLRVRDINEAFKELGRMCQLHLNSEKpQTkLLILHQAVSVIL  
NLEQQVRERNLNPKAACLKREEEKVSGVVGDPQMVLsAPHPGLSEAHNPAGHM

>sp|P19484|TFEB\_HUMAN Transcription factor EB OS=Homo sapiens GN=TFEB PE=1 SV=3

MASRIGLRMLMREQAQQEEQRERMQQQAVMHYMQQQQQQQQLGGPPTPAINTPVHFQ  
SPPVPVGEVLKVQSYLENPTSYHLQSQHQKVREYLSETYGNKFAAHISPAQGSPKPPPA  
ASPGVRAGHVLSSAGNSAPNSPMAMLIHGSNPERELDDVIDNIMRLDDVLGYINPEMQM  
PNTLPLSSSHLNVSsDPQVTASLVGVTSSSCPADLTQKRELTAESRALAKERQKKDNH  
NLIERRRRFNINDRIKELGMLIPKANDLDVRWNKGtILKASVDYIRRMQKDLQKSRELEN  
HSRRLEMTNKQLWLRIQELEMqARVHGLPTTSPSGMNMAELAQQVVKQELPSEEGPGEAL  
MLGAEPDPEPLPALPPQAPLPLTPQPPSPFHHLDFSHLSFGGREDEGPPGYPEPLAPG  
HGSPFPsLSKKDLDLMLLDDSLPLASDPLLSTMSPEASKASSRRSSFSMEEGDVL

>sp|095379|TFIP8\_HUMAN Tumor necrosis factor alpha-induced protein 8 OS=Homo sapiens  
GN=TNFAIP8 PE=1 SV=1

MHSEAEESKEVATDVFNsKNLAVQAQKKILGKMVSKSIATTLIDTSSEVLDELyRVTRE  
YTQNKKEAEKIiKNLIKtVIKLAILYRNnQFNQDELALMEKFkkKVHQLAMTVVSfHQVD  
YTFDRNVLsRLNNECREMLHQIIQRHLTAKSHGRVNNVFDHfSDCEFLAALYNPFGNFKP  
HLQKLCDGINKMLDEENI

>sp|P48307|TFPI2\_HUMAN Tissue factor pathway inhibitor 2 OS=Homo sapiens GN=TFPI2 PE=1  
SV=1

MDPARPLGLSILLFLTEAALGDAAQEPTGNNAEICLLPLDYGPCRALLLRYYYDRYTQS  
CRQFLYGGCEGNANNFYtWEACDDACWRIEKVPKVCRLQVSVDQCEGSTEKYFFNLSSM  
TCEKFFSGGCHRNRIENRfPDEATCMGFCAPKKIPSFCYSPKDEGLCSANVTRYyFNPRY  
RTCDAFTYTGGGNDNNFVSREDCKRACAKALKKKKKMPKLRFASRIRKIRKKQF

>sp|095455|TGDS\_HUMAN dTDP-D-glucose 4,6-dehydratase OS=Homo sapiens GN=TGDS PE=1 SV=1

MSAACWEEPWGLPGGFAKRVLVTGGAGFIASHMIVSLVEDYPNYMIINLDKLDYCASLKN  
LETISNKQNYKFIQGDICDSHFVKLLFETEKIDIVLHFAAQTHVDLSFVRAFEFTYVNvy  
GTHVLVSAAHEARVEKFIYVSTDEVYGGSLDKEFDESSPKQPTNPYASSKAAAEcfVQSY  
WEQYKFPVVITRSSNVYGPHQYPEKVIpKFISLLQHNRKCCIHGSGLQTRNfLYATDVVE

AFLTVLKKGKPGEIYNIGTNFEMSVVQLAKELIQLIKETNSESEMENWVDYVNDRPTNDM  
RYPMKSEKIHGLGWRPKVPWKEGIKKTI EWYRENFHNWKNVEKALEPFPV

>sp|Q16559|TAL2\_HUMAN T-cell acute lymphocytic leukemia protein 2 OS=Homo sapiens GN=TAL2  
PE=1 SV=1

MTRKIFTNTRERWRQQNVNSAFAKLRKLIPTHPDKKLSKNETLRLAMRYINFLVKVLGE  
QSLQQTGVAAQGNILGLFPQGPHLPGLDRTLLENYQVPSPGPSHHIP

>sp|Q70YC4|TALAN\_HUMAN Talanin OS=Homo sapiens GN=ZNF365 PE=2 SV=2

MSALGQITITVSRWNTERNQTDKNPCLHGAYLQLRETVKNKSTHLKKPLMKQAPPWKDH  
LTFQPLHPAERKTQVWRWQSGNSSDLETTSSASPWPTGSNRDVVLNTLAESCCGLSELIT  
APPYAGVSIQGFSQIWVLPFCGGTFHHNEKDVGLQDFERESVSTSQSRNISLLTLGQL  
QNCVIGKLTIIDLLTEHLLGVRHGVICFPWGLPSSS

>sp|Q9UL54|TAOK2\_HUMAN Serine/threonine-protein kinase TA02 OS=Homo sapiens GN=TAOK2 PE=1  
SV=2

MPAGGRAGSLKDPDVAELFFKDDPEKLFSDLREIGHGSFGAVYFARDVRNSEVVAIKKMS  
YSGKQNEKWQDIKEVRFLQKL RHPNTIQYRGCYLREHTAWLVMEYCLGSASDLLLEVHK  
KPLQEVEIAAVTHGALQGLAYLHSHNMIHRDVKAGNILLSEPGLVKLGDFGSASIMAPAN  
SFVGTPTYWMAPEVILAMDEGGYDGKVDVWSLGITCIELAERKPPLFNMNAMSALYHIAQN  
ESPVLQSGHWSEYFRNFVDSCLQKIPQDRPTSEVLLKHRFVLRERPPTVIMDLIQRTKDA  
VRELDNLQYRKMKKILFQEAPNGPGAEEPEEEEEAEPYMHRAGTLTSLESSHSVPSMSIS  
ASSQSSSVNSLADASNEEEEEEEEEEEEEEGPEAREMAMMQEGEHTVTSHSSI IHRLP  
GSDNLYDDPYQPEITPSPLQPPAAPAPTSTTSSARRRAYCRNRDHFATIRTSLSVRQIQ  
EHEQDSALREQLSGYKMRMRQHQQLLALESRLRGEEH SARLQRELEAQRAGFGAEAE  
KLARRHQAIGEKEARAAQAEERKFQQHILGQQKKELAALEAQKRTYKLRKEQLKEELQE  
NPSTPKREKAEWLLRQKEQLQQCAEEEEAGLLRRQRQYFELQCRQYKRKMLLARHSLDQD  
LLREDLNKKQTQKDECALLLRQHEATRELELRQLQAVQRTRAELTRLQHQT ELGNQLEY  
NKRREQLRQKHAAQVRQPKSLKVRAGQRPPGLPLPIPGALGPPNTGTPIEQQPCSPGQ  
EAVLDQRMLGEEEEAVGERRILGKEGATLEPKQQRILGEESGAPSPSPQKHGSLVDEEVW  
GLPEEIEELRVPSLVPQERSIVGQEEAGTWSLWGKEDESLLDEEFELGWVQGPALTPVPE  
EEEEEEGAPIGTPRDPDGCPSPDIPPEPPPTHLRPCPASQLPGLLSHGLLAGLSFAVG  
SSSGLPLLLLLLLPLLAAQGGGGLQAALLALEVGLVGLGASYLLLCTALHLPSSLFLLL  
AQGTALGAVLGLSWRRGLMGVPLGLGAAWLLAWPGLALPLVAMAAGRWVRQQGPRVRRG  
ISRLWLRVLLRLSPMAFRALQCGGAVGDRGLFALYPKTNKDGFRSRLPVPGPRRRNPRTT  
QHPLALLARVWVLCKGWNWRLARASQGLASHLPPWAIHTLASWGLLRGERPTRIPRLLPR  
SQRQLGPPASRQPLPGTLAGRRSRTRQSRLPPWR

>sp|Q03518|TAP1\_HUMAN Antigen peptide transporter 1 OS=Homo sapiens GN=TAP1 PE=1 SV=2

MAELLASAGSACSWDFPRAPPSFPPPAASRGGGTRSFRRPHGAESPRPGRDRDGVVRVP  
MASSRCAPAPRGCRCLPGASLAWLGTVLLLLADWVLLRTALPRIFSLLVPTALPLLRVWAV  
GLSRWAVLWLGACGVL RATVGSKSENAGAQQWLAALKPLAAALGLALPGLALFRELISWG  
APGSADSTRLLHWGSHTAFVVSAAAALPAAALWHKLGSLWVPGGQGGSGNPVRRLLGCL  
GSETRRLSLFLVLVSSLGEMAI PFFTGR LTDWILQDGSADTFTRNLTLMSILT IASAV  
LEFVG DGIYNNTMGHVHSHLQGEVFGAVLRQETEFFQQNQ TGNIMSRVTEDTSTLSDSLS  
ENLSLFLWYLVRLCLLGLIMLWGSVSLTMVTLITLPLLFLLPKKVGKWKYQLLEVQVRESL  
AKSSQVAIEALSAMPTVRSFANEEGEAQKFREKLQEIKTLNQKEAVAYAVNSWTTSISGM  
LLKVGILYIGGQLVTSGAVSSGNLVTFVLYQM QFTQAVEVLLSIYPRVQKAVGSSEKIFE

YLDRTPRCPPSGLLTPLHLEGLVQFQDVSFAYPNRPDVLVLQGLTFTLRPGEVTALVGPN  
GSGKSTVAALLQONLYQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQVFGRSLQENIA  
YGLTQKPTMEEITAAAVKSGAHSFISGLPQQGYDTEVDEAGSQLSGGQRQAVALARALIRK  
PCVLILDDATSALDANSQLQVEQLLYESPERYSRSVLLITQHLSLVEQADHILFLEGGAI  
REGGTHQQLMEKKGCYWAMVQAPADAPE

>sp|Q6NXT6|TAPT1\_HUMAN Transmembrane anterior posterior transformation protein 1 homolog  
OS=Homo sapiens GN=TAPT1 PE=1 SV=1

MAGVGDAAPGEGGGGGVDGPQRDGRGEAEQPGSGGGQPPPAPQLTETLGFYESDRRRE  
RRRGRTELSLLRFLSAELTRGYFLEHNEAKYTERRERVYTCLRIPRELEKLMVFGIFLCL  
DAFLYVFTLLPLRVFLALFRLTLPCYGLRDRRLQPAQVCDILKGVILVICYFMMHYVD  
YSMMYHLIRGQSVIKLYIIYNMLEVADRLFSSFGQDILDALYWTATEPKERKRAHIGVIP  
HFFMAVLYVFLHAILIMVQATTNLNVAFNHNSKSLTIMMSNNFVEIKGSVFKKFEKNNLF  
QMSNSDIKERFTNYVLLLIVCLRNMEQFSWNPDLWVLPDVCMVIASEIAVDIVKHAFI  
TKFNDITADVSEYRASLAFDLVSSRQKNAYTDYSDSVARRMGFIPLPLAVLLIRVVTSS  
IKVQGILSYACVILFYFGLISLKVLSIVLLGKSCQYVKEAKMEEKLSNPPATCTPGKPS  
SKSQNKCKPSQGLSTEENLSASITKQPIHQKENIIPLLVTSNSDQFLTPDGDEKIDITQD  
NSELKHRSSKKDLLEIDRFTICGNRID

>sp|P04350|TUBB4A\_HUMAN Tubulin beta-4A chain OS=Homo sapiens GN=TUBB4A PE=1 SV=2

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGSDQLQERINVYYNEATGGNYV  
PRAVLVDLEPGTMDSVRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVLDDV  
RKEAESCDCLQGFLTHSLGGGTSGMGTLISKIREEPDRIMNTFSVVPSPKVSOTVV  
EPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPPTYGDLNHLVSATMSGVTCL  
RFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTPELTQQMFDAKNMM  
AACDPRHGRYLTAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTAVCDIPPRG  
LKMAATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEQMEFTEAESNMNDLVS  
EYQQYQDATAEEGEFEEEEEEVA

>sp|Q8TC07|TBC15\_HUMAN TBC1 domain family member 15 OS=Homo sapiens GN=TBC1D15 PE=1 SV=2

MAAGVVSQGIIEYQEGVYIHSSCGKTNDQDGLISGILRVLEKDAEIVDWRPLDDALDS  
SSILYARKDSSSVVEWTQAPKERGHRGSEHLNSYEAEDWMVNTVSFKRKPHTNGDAPSHR  
NGKSKWSFLFSLTDLKSIKQKEGMGWSYLVFCLKDDVLPALHFHQGDSKLLIESLEKY  
VVLCESPQDKRTLLVNCQNKSLSQSFENLDEPAYGLIQAGLLDRRKLWAIHHWKIKK  
DPYTATMIGFSKVTNYIFDSLGRSDPSTHQRPPSEMAFLSDAIPGLKINQQEEPGEVI  
TRIDLGERPVVQRREPVSLEEWTKNIDSEGRILNVDNMKQMIFRGGLSHALRKQAWKFL  
GYFPWDSTKEERTQLQKQKTDEYFRMKLQWKSISQEQEKRSRLRDYRSLEKDVNRTDR  
TNKFYEGQDNPGILLHDILMTYCMYDFDLGYVQGMSDLSPLLYVMENEVDAFWCFASY  
MDQMHQNFEEQMGMKTQLIQLSTLLRLLD SGFCSYLESQDSGYLYFCFRWLLIRFKREF  
SFLDILRLWEVMWTELPCTNFHLLLC CAILESEKQQIMEKHYGFNEILKHINELSMKIDV  
EDILCKAEATISLMVKCKELPQAVCEILGLQGSEVTTPDSVDGEDENVMTCPPTSAFQS  
NALPTLSASGARNDSTQIPVSSDVCRLTPA

>sp|Q9UFV1|TBC29\_HUMAN Putative TBC1 domain family member 29 OS=Homo sapiens GN=TBC1D29  
PE=2 SV=1

MGLDKKEGLCTQGSSFSWLLRVLNDGISLGLTPCLWDMYLLEGEQMLMLITSIAFKVQRS  
LYEETNKETWGPATPRALKGTGRARPICESLHSSLQALTASESSRGPSLLQTPPRVPGQQ  
ALSRGDKGISVSLPSLPSRRGRGCGRIIG



>sp|Q8IZP1|TBC3A\_HUMAN TBC1 domain family member 3 OS=Homo sapiens GN=TBC1D3 PE=1 SV=6  
MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVNDHLGIVHETELPPL  
TAREAKQIRREISRSKSWVDMLGDWEKYSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM  
KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY  
NPEVGycrdLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLGCGCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKKGDLPPP  
AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVPSPALAQQGPGQSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSQGTPFRARDEQQCAPTSGPCLCGLHL  
ESSQFPFPGF

>sp|Q6IPX1|TBC3C\_HUMAN TBC1 domain family member 3C OS=Homo sapiens GN=TBC1D3C PE=2 SV=3  
MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVNDHLGIVHETELPPL  
TAREAKQIRREISRSKSWVDMLGDWEKYSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM  
KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY  
NPEVGycrdLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKDLGCGCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKKGDLPPP  
AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVPSPALAQQGPGQSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRSFAAPSTDSQGTPFRARDEQQCAPTSGPCLCGLHL  
ESSQFPFPGF

>sp|Q66K14|TBC9B\_HUMAN TBC1 domain family member 9B OS=Homo sapiens GN=TBC1D9B PE=1 SV=3  
MWLSPeeVLVANALWVTERANPFFVLQRRRGHGRGGGLTGLLVGTLDDVLDSSARVAPYR  
ILHQTQDSQVYWTACGSSRKEITKHWEWLENNLLQTLISFDSEEDITTFVKGKIHGIIA  
EENKNLQPQGEDPGKFKEAELKMRKQFGMPEGEKLVNYYSCSYWKGVRPRQGWLylTVN  
HLCFYsFLGKEVSLVVQWVDITRLEKNATLLFPESIRVDTRDQELFFSMFLNIGETFKL  
MEQLANLAMRQLLDSEGfLEDKALPRPIRPHRNISALKRDLdARAKNECYRATfRLPRDE  
RLDGHtSCTLWTPFNKLHIPGQMFI SNNYICFASKEEDACHLI IPLREVTIVEKADSSSV  
LPSPLSISTKSKMTFLFANLKDRDFLVQRISDFLQKTPSKQPGSIGSRKASVVDPSTESS  
PAPQEGSEQPASPASPLSSRQSfCAQEAPTASQGLLKLfQKNSPMEDLGAKGAKEKMKEE  
SWHIHFfEYGRGVCMYRTAKTRALVLKGIPESLRGELWLLfSGAWNEMVTHPGYYAELVE  
KSTGKYSLATEEIERDLHRSMPEHPAFQNELGIAALRRVLTAYAFRNPTIGYCQAMNIVT  
SVLLLYGSEEEAFWLLVALCERMLPDYYNTRVVGALVDQGIFeelTRDFLPQLSEKMQDL  
GVISSISLSWFLTLFLSVMPFESAVVIVDCFFYEGIKVILQVALAVLDANMEQLLGCSDE  
GEAMTMLGRYLDNVVNKQSVSPPIPHLRALLSSSDPPAEVDIFELLKVSYEKFSSLRAE  
DIEQMRfKQRLKVIQsLEDtAKRSVVRAIPVDIGFSIEELEDLYMVfKAKHLASQYWGCS  
RTMAGRRDPSLPYLEQYRIDASQfRELfASLTPWACGSHTPLLAGRMfRLLDENKDSLIN  
fKEfVTGMSGMYHGDLTEKLKVLyKLHLPPALSPEEAESALEAAHYfTEDSSSEASPLAS  
DLDLFLPWEAQeALPQEEQEGSGSEERGEKGTSSPDYRHylRMWAKEKEAQKETIKDLP  
KMNQEQfIELCKTLyNMfSEDPMEQDLYHAIATVASLLLRIgeVGKKfSARTGRKPRDCA  
TEEDEPPAPELHQDAARELQPPAAGDPQAKAGGDThLGKAPQESQVVVEGGSGEGQGSPS  
QLLSDEtEKDDMSMSsySVVSTGSLQCEDLADDTVLVGGEACSPTARIGGTVDTDWCISf  
EQILASILTESVLVNFfEKRVDIGLKIKDQKKVERQfSTASDHEQPGVSG

>sp|Q92609|TBCD5\_HUMAN TBC1 domain family member 5 OS=Homo sapiens GN=TBC1D5 PE=1 SV=1  
MYHSLSETRHPLQPEEQEVGIDPLSSYSNKS GGD SNKNGRRTSSTLDSEGT FNSYRKEWE  
ELFVNNNYLATIRQKGINGQLRSSRFRSICWKLFLCVLPQDKSQWISRIEELRAWYSNIK  
EIHITNPRKVVGQQLMINNPLSQDEGSLWNKFFQDKELRSMIEQDVKRTFPEMQFFQQE  
NVRKILTDVLCYARENEQLLYKQGMHELLAPIVFLHCDHQAFLHASESAQPSEEMKTV  
LNPEYLEHDAYAVFSQLMETAEPWFSTFEHDGQKGKETLMTPIPFARPQDLGPTIAIVTK  
VNQIQDHLLKKHDI ELYMHLNRLEIAPQIYGLRWVRLFGREFPLQDLLVVDALFADGL  
SLGLVDYIFVAMLLYIRDALISSNYQTCLGLLMHYPIGDIVHSLILKALFLRDPKRNP  
VTYQFHPNLDYYKARGADLMNKSRTNAKGAPLNINKVSNSLINFGRLISPAMAPGSAGG  
PVPGGNSSSSSVIPTRTSAEAPSHHLQQQQQQRLMKSESMPVQLNKGLSSKNISSSP  
SVESLPGGREFTGSPSSATKKDSFFSNISRSRSHSKTMGRKESEEELEAQISFLQGQLN  
DL DAMKYCAKVM DTHLVNIQDVLQENLEKEDQILVSLAGLKQIKDILKGS LRFNQS Q  
L EAEENEQIT IADNH YCSSGGGQGRGQGSVQMSGAIKQASSETPGCTDRGNSDDFILISK  
DDDGSARGSFSGQAQPLRTLSTSGKSQAPVCSPLVFS DPLMPASASSSNPSSSPDDD  
SSKDSGFTIVSPLDI

>sp|Q5QJ74|TBCEL\_HUMAN Tubulin-specific chaperone cofactor E-like protein OS=Homo sapiens  
GN=TBCEL PE=1 SV=2  
MDQPSGRSFMQVLCEKYSPENFPYRRGPGMGVHVPATPQGSPMKDRLNLP SVLVLNSCGI  
TCAGDEKEIAAFCAHVSELDLSDNKLEDWHEVSKIVSNVPQLEFLNLSSNPLNLSVLERT  
CAGSFSGVRKLV LNN SKASWETVHMILQELPDLEELFLCLNDYETVSCPSICCHSLKLLH  
ITDNNLQDWTEIRKLGVMFPSDLTVLANNHLNAIEEPDDSLARLFPNLRISLHKSGLQ  
SWEDIDKLNSFPKLEEVRLGIPLLQPYTTEERRKLV IARLP SVSKLNGSVVTDGEREDS  
ERFFIRYYVDVPQEEVPFRYHELITKYGKLEPLAEVDLRPQSSAKVEVHFNDQVEEMSIR  
LDQTV AELKKQLKTLVQLPTS NMLLYYFDHEAPFGPEEMKYSSRALHSFGIRDGDKIYVE  
SKTK

>sp|Q8TEA7|TBCK\_HUMAN TBC domain-containing protein kinase-like protein OS=Homo sapiens  
GN=TBCK PE=1 SV=4  
MFPLKDAEMGAFTFFASALPHDVC SNG LPLTPNSIKILGRFQILKTITHPRLCQYVDIS  
RGKHERLVVVAEH CERSLEDLLRERKPVSCSTVLCIAFEVLQGLQYMNKHGIVHRALSPH  
NILLDRKGHIKLA KFLYHMTAHGDDVDFPIGYPSYLAPEVIAQGIFKTTDHMP SKKPLP  
SGPKSDVWSLGIILFELCVGRKLFQSLDISERLKFLLTDCVDDTLIVLAEHGC LDI IK  
ELPETVIDLLNKCLTFHPSKRPTDQLMKDKVFSEVSPLYTPFTKPASLFSSSLRCADLT  
LPEDISQLCKDINNDYLAERSIEEVYYLWCLAGGDLEKELVNKEIIRSKPPICTLPNFLF  
EDGESFGQGRDRSSLLDDTTVTLSLCQLRNRLKDVGG EAFYPLEDDQSNLPHS NSNEL  
SAAATLPLIIREKDTEYQLNRIILFDRLKAYPYKKNQIWKEARVDIPPLMRGLTWAALL  
GVEGAIHAKYDAIDKDTPIPTDRQIEVDIPRCHQYDELLSSPEGHAKFRRLKAWVVSHP  
DLVYWQGLDSLCAFLYLNFNNEALAYACMSAFIPKYLNFFLKDNSHVIQEYLT VFSQM  
IAFHDP ELSNHLNEIGFIPDLYAIPWFLTMFTHVFPLHKIFHLWD TLLGNSSFPFCIGV  
AILQQLRDRLLANGFNECILLFSDLPEIDIERCVRESINLCWTPKSATYRQHAQPPKPS  
SDSSGGRSSAPYFSAECPDPKPTDLSRESIPLNDLKSEVSPRISAEDLIDLCELTVTGHF  
KTPSKKTKSSKPKLLVVDIRNSED FIRGHISGSINIPFSA AFTAEGELTQGPYTAMLQNF  
KGKVIIVIGHVAKHTAEFAAHLVKMKYPRICILDGGINKIKPTGLLTIPSPQI

>sp|Q9Y4C2|TCAF1\_HUMAN TRPM8 channel-associated factor 1 OS=Homo sapiens GN=TCAF1 PE=1  
SV=3

MATPSAAFEALMNGVTSWDVPEDAVPCELLLIGEASFPVMVNDMGQVLI AASSYGRGRLV  
VVSHEYLVEAQLTPFLLNAVGLWCSSPGAPIGVHPSLAPLAKILEGSGVDAKVEPEVKD  
SLGVYCIDAYNETMTEKLVKFMKCGGGLLIGGQAWDQWANGEDERVLFTHFPGNLVTSVAG  
IYFTDNKGDTSFVKVSKMMPKIPVLVSCEDDLSDREELLHGISELDISNSDCFPSQLLV  
HGALAFPLGLDSYHGCVIAAARYGRGRVVVTGHKVLFTVGKLGPFLLNAVRWLDGGRRGK  
VVVQTELRTLSGLLAVGGIDTSIEPNLTSASVYCFEPVSEVGVKELQEFVAEGGGLFVG  
AQAWWWAFKNPGVSPARFPGNLLNPFGISITSQSLNPGPFRTPKAGIRTYHFRSTLAE  
FQVIMGRKRGVNEKGLAKLPGDGAFLQIPAEIIPAYMSVHRLLRKLLSRYRLPVATRE  
NPVINDCCRGAMLSLATGLAHSGSDL SLLVPEIEDMYSSPYLRPSESPITVEVNCTNPGT  
RYCWMSTGLYIPGRQII EVSLPEAAAADLKIIGCHTDDLTRASKLFRGPLVINRCCLD  
KPTKSITCLWGGLLYIIVPQNSKLGSPVTVKGAHVHAPYKLGTTLEEWKRRIQENPGP  
WGELATDNIILTPTANLRTLENPEPLRLWDEVMAVARLGAEPFPLRLPQRIVADVQI  
SVGWMHAGYPI MCHLESVQELINEKLIRTKGLWGPVHELGRNQQRQEWEPHPTTEATCN  
LWCYVYHETVLGIPSRANIALWPPVREKRVRIYLSKGNVKNNAWTALETYLQLQEAF  
GWEPFIRLFTYRNQTNLTENVDKMNLWVKMFSHQVQKNLAPFFAWAWPIQKEVATSL  
AYLPEWKENIMKLYLLTQMPH

>sp|Q9UHQ7|TCAL9\_HUMAN Transcription elongation factor A protein-like 9 OS=Homo sapiens  
GN=TCEAL9 PE=3 SV=1

MKSCQKMEGKPENESPKHEEKPPEEKPEEEEEKLEEEAKAKGTFRERLIQSLQEFKEDI  
HNRHLSNEDMFREVDEIDEIRVRNKLIVMRWKNRNHPYPYLM

>sp|Q12870|TCF15\_HUMAN Transcription factor 15 OS=Homo sapiens GN=TCF15 PE=2 SV=3

MAFALLRPVGAHVLYPDVRLLEDEENRSESDASDQSGCCGPEAARRGPGPGGRRAG  
GGGAGPVVVVRQQAANARERDRTQSVNTAFTALRTLIPTEPVDRKLSKIETVRLASSY  
IAHLANVLLLGDSDGQPCFRAAGSAKAVPAAADGGRQPRSICTFCLSNQRKGGRRD  
LGGSCLVKVRGVAPLRGPRR

>sp|Q9Y242|TCF19\_HUMAN Transcription factor 19 OS=Homo sapiens GN=TCF19 PE=1 SV=2

MLPCFQLLRIGGGRGGDLYTFHPPAGAGCTYRLGHRADLCDVALRPQQEPGLISGHAEL  
HAEPGRDDWRVSLDHSSQGTLVNNVRLPRGHRLELSDGDLTFGPEGPPGTSPSEFYFM  
FQQVRVKPQDFAAITIPSRGEARVGAGFRPMLPSQGAPQRPLSTFSPAPKATLILNSIG  
SLSKLRPQPLTFSPSWGPKSLVPAPPGEMGTTPSAPPQRNRKSVHRVLAELDDESEP  
PENPPVLMPEPRKLRVDKAPLTPTGNRRGRPRKYPVSAPMAPPAVGGGEPCAAPCCCLP  
QEETVAWVQCDGCDVWFHVACVGCSTQAAREADFRCPGCRAGIQT

>sp|P36402|TCF7\_HUMAN Transcription factor 7 OS=Homo sapiens GN=TCF7 PE=1 SV=3

MPQLDSGGGGAGGGDDLAPDELLAFQDEGEQDDKSRDSAAGPERDLAELKSSLVNESE  
GAAGGAGIPGVPGAGAGARGEAEALGREHAAQRLFPDKLPEPLEDGLKAPECTSGMYKET  
VYSAFNLLMHYPSPGAGQHPQPPLHKAQPPHGVPLSLYEHFNSPHPTPAPADISQ  
KQVHRPLQTPDLSGFYSLTSGSMGQLPHTVSWFTHPSMLGSGVPGHAAIPHPAIVPPS  
GKQELQPFDRNLKTQAESKAKEAKKPTIKKPLNAFMLYMKEMRAKVIAECTLKESAAIN  
QILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRSREKHQESTTET  
NWPRELKDGNGQESLSMSSSSSPA

>sp|Q15185|TEBP\_HUMAN Prostaglandin E synthase 3 OS=Homo sapiens GN=PTGES3 PE=1 SV=1

MQPASAKWYDRRDYVFI EFCVEDSKDVNVNFEKSKLTFSCLGSDNFKHLNEIDLFHCID  
PNDSKHKRTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEDMSNF  
DRFSEMMNMGGDEDVDLPEVDGADDDSQDSDEKMPDLE

>sp|Q9UNN4|TF2AY\_HUMAN TFIIA-alpha and beta-like factor OS=Homo sapiens GN=GTF2A1L PE=1 SV=2

MACLNVPKLYRSVIEDVIEGVRNLFEEGIEEQVLKDLKQLWETKVLQSKATEDFFRNS  
IQSPLFTLQLPHSLHQTLSSTASLVIPAGRTLPSFTTAE LGTSNSSANFTFPGYPIHVP  
AGVTLQTVSGHLYKVNVPIMVTETSGRAGILQHPIQQVFQQLGQPSVIQTSVPQLNPWSL  
QATTEKSQRIETVLQQPAILPSGFPVDRKHLENATSDILVSPGNEHKIVPEALLCHQESSH  
YISLPGVVFPQVSQTSNVSLSGSASMAQNLHDESLSTSPHGALHQHVTDIQLHILK  
NRMYGCDSVKQPRNIEEPSNIPVSEKDSNSQVDLSIRVTDDDIGEIIQVDGSGDTSSNEE  
IGSTRDADENEFLGNIDGGDLKVPREEADSISNEDSATNSSDNEDPQVNIVEEDPLNSGD  
DVSEQDVPDLFDTDNVIVCQYDKIHRSKNKWKFYLDGVMCFGGRDYVFAKAIGDAEW

>sp|P32780|TF2H1\_HUMAN General transcription factor IIH subunit 1 OS=Homo sapiens GN=GTF2H1 PE=1 SV=1

MATSSSEEVLLIVKKVRQKKQDGALYLMAERIAWAPEGKDRFTISHMYADIKCQKISPEGK  
AKIQLQLVLHAGDTTNFHFSNESTAVKERDAVKDLLQQLLPKFKRKANKELEEKNRMLQE  
DPVLFQLYKDLVVSQVISAEEFWANRLNVNATDSSSTS NHKQDVGISAAFLADVRPQTDG  
CNGLRYNLTSDIIESIFRTYPAVKMKYAENVPHNMTEKEFWTRFFQSHYFHRDRLNTGSK  
DLFAECAKID EKGLKTMVSLGVKNPLDLTALEDKPLDEGYGISSVPSASNSKSIKENS  
AAI IKRFNHHSAMVLAAGLRKQEAQNEQTSEPSNMDGNSGDADCFQPAVKRAKLQESIEY  
EDLGKNSVKTIALNLKKS DRYYHGPTPIQSLQYATSQDIINSFQSIRQEMEAYTPKLTQ  
VLSSSAASSTITALSPGGALMQGGTQQA INQMVPNDIQSELKHLVAVGELLRHFWSFCF  
VNTPFLEEKVVKMKSNLERFQVTKLCPFQEKIRRQYLSTNLVSHIEMLQTAYNKLHTWQ  
SRRLMKKT

>sp|P36897|TGFR1\_HUMAN TGF-beta receptor type-1 OS=Homo sapiens GN=TGFB1 PE=1 SV=1

MEAAVAAPRPRLLLLVLA AAAAAAAAAALLPGATALQCFCHLCTKDNFTCVTDGLCFVSVTE  
TTDKVIHNSMCIAEIDLIPDRDPFVCAPSSKTGSVTTTYCCNQDHCNKIELPTTVKSSPG  
LGPVELAAVIAGPVCFCISLMLMVYICHNRVTIHHRPVNEEDPSLDRPFI SEGTTLKDL  
IYDMTSGSGSGLPLL VQRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAVKIFSSREER  
SWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVS DYHEHGS LFDYLNRYTVTVE  
GMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVRHDS  
ATDTIDIAPNHRVGTKRYMAPEVLDD SINMKHFESFKRADIYAMGLVFWEIARRCSIGGI  
HEDYQLPYYDLVPSDPSVEEMRKVCEQKLRPNIPNRWQSCEALRVMAKIMRECWYANGA  
ARLTALRIKKTLSQLSQQEGIKM

>sp|Q96PF1|TGM7\_HUMAN Protein-glutamine gamma-glutamyltransferase Z OS=Homo sapiens GN=TGM7 PE=2 SV=1

MDQVATLRLESVDLQSSRNKEHHTQEMGVKRLTVRRGQPFYLRLSFSRPFQSQNDHITF  
VAETGPKPSELLGTRATFFLTRVQPGNVWSASDFTIDSNSLQVSLFTPANAVIGHYTLKI  
EISQGGQHSV TYPLGT FILLFPNWPSPEDDVYLPSEILLQEYIMRDYGFVYKGHERFITSW  
PWNYGQFEEDIIDICFEILNKS LYLK NPAKDCSQRNDVVYVCRVVSAMINSNDDNGVLQ  
GNWGEDYSKGVSPLEWKGSA ILLQQWSARGGQPVKYGQCWVFASVMCTVMRCLGVPTRVV  
SNFRSAHNVDRLNTIDTYDRNAEMLSTQKRDKIWNFHVWNECWMIRKDLPPGYNGWQVL  
DPTPQQTSSGLFCCGPASVKAIREGDVHLAYDTPFVYAEVNADEV IWLGDGQAQEILAH  
NTSSIGKEISTKMVGSDQRQSI TSSYKYPEGSP EERAVFMKASRKMLGPQRASLPFLDLL  
ESGGLRDQPAQLQLHLARIP EWGQDLQLLLRIQRVPDSTHPRGPIGLVVRFCAQALLHGG  
GTQKPFWRHTVRMNLDFGKETQWPLLLPYSNYRNKLTDEKLIRVSGIAEVEETGRSMLVL

KDICLEPPHLSIEVSERAIEVGKALRVHVTLTNTLMVALSSCTMVLEGSLINGQIAKDLG  
TLVAGHTLQIQDLQYPTKAGPRQLQVLISSNEVKEIKGYKDIFVTVAGAP

>sp|Q9BT49|THAP7\_HUMAN THAP domain-containing protein 7 OS=Homo sapiens GN=THAP7 PE=1  
SV=2

MPRHCSAAGCCTRDTRNTRNGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEY  
IYFCSKHFEEDCFELVGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPAEVSRL  
RRCRKRCSEGRGPTTPFSPPPADVTCFPVEEASAPATLPASPAGRLEPGLSSPFDLLG  
PLGAQADEAGCSAQSPERQSPLEPRPVSPSAYMLRLPPPAGAYIQNEHSYQVGSALLW  
KRRAEAALDALDKAQRQLQACKRREQRLRLRLTKLQQERAREKRAQADARQTLKEHVQDF  
AMQLSSSMA

>sp|PODJG4|THEGL\_HUMAN Testicular haploid expressed gene protein-like OS=Homo sapiens  
GN=THEGL PE=2 SV=1

MENQEFLSSSAPSEVTDGQVSTEISTCSEVFQKPIVLRILDTHRELEESDPEKHENPEE  
PEEVREQDQRDESEECDEPHESYEPHAPYAPHKPRDSYAPYELHGPHAAPKLLKAREPRQ  
LRHTREPRKSREAKETELLPSAAVMISPSLITRAPPRLSFLGANPVSCDFVRKCFSSR  
KRTPNLSKPKKQWGTDPDRKLFWGNQDPIRPVSGALKQAQTKRLENLAQPKVVSCHYVPN  
RAQYYHSCGRESVIWEITPPALFRQPSKRIQRLSQPNGFKRQCLNRPFSDNSARDSLRI  
SDPSPRILQLSVAKGTDPNYHPSKKMQTKISLSTLSAIATPRIIELAHPRIKLEGLCYER  
QRSELPPIRPVPPAAMIAKPSPTIALAKSKSVHQDYLPDRDAHWPVSYATTHSKASPRIQ  
ELANPNKRAPVRIYYDPDVFKTKPAALKAQCSQRIWELSQPLTR

>sp|Q9P2T0|THEG\_HUMAN Testicular haploid expressed gene protein OS=Homo sapiens GN=THEG  
PE=1 SV=1

MGDSRRRSLGNQPSSEAAGRSEREQDGDPRGLQSSVYESRRVTDPERQDLDNAELGPEDP  
EEELPPEEVAGEEFPETLDPKEALSELERVLDKDLEEDIPEISRLSISQKLPSTTMTKAR  
KRRRRRRLMELAEPKINWQVLKDRKGRGKGYAWISPCKMSLHFCLCWPSVYWTERFLED  
TTLTITVPAVSRRVEELSRPKRFLEYNNNRTPVWPIPRSSLEYRASSRLKELAAPKI  
RDNFWSMPMEVSQVSRAAQMVPSSRILQLSKPKAPATLLEEDVPVPPKPHVSDHNRL  
LHLARPKAQSDKCPDRDRWEVLDTKKVVASPRIISLAKPKVRKGLNEGYYDRRPLASM  
SLPPPKASPEKCDQPRPGL

>sp|P24752|THIL\_HUMAN Acetyl-CoA acetyltransferase, mitochondrial OS=Homo sapiens  
GN=ACAT1 PE=1 SV=1

MAVLAALLRSGARSRSPLLRLLVQEIRYVERSYVSKPTLKEVVIVSATRTPIGSFLGSL  
LLPATKLGSIQGAIEKAGIPKEEVKEAYMGNVLQGGEGQAPTRQAVLGAGLPSTPCT  
TINKVCASGMKAIMMASQLMCGHQDVMVAGGMESMSNPVYVMNRGSTPYGGVKLEDLIV  
KDGLTDVYNKIHMGSACENTAKKLNIARNEQDAYAINSYTRSKAAWEAGKFGNEVIPVT  
TVKGQPDVVVKEDEEYKRVDFSKVPKLKTVFQKENGTVTAANASTLNDGAAALVMTADA  
AKRLNVTPLARIVAFADAAREPIDFPIAPVYAASMLKDVGLKKEDIAMWEVNEAFSLVV  
LANIKMLEIDPQKVNINGGAVSLGHPIGMSGARIVGHLTHALKQGEYGLASICNGGGGAS  
AMLIQKL

>sp|Q96FV9|THOC1\_HUMAN THO complex subunit 1 OS=Homo sapiens GN=THOC1 PE=1 SV=1

MSPTPPLFSLPEARTRFTKSTREALNNKNIKPLLSTFSQVPGSENEKKCTLDQAFRGILE  
EEIINHSSCENVLAIISLAIGVTEGICTASTPFVLLGDVLDCLPLDQCDTIFTFVEKNV  
ATWKSNTFYSSAGKNYLLRMCNDLLRRLSKSQNTVFCGRIQLFLARLFPLSEKSGNLQSQ  
FNLENVTVFNTNEQESTLGQKHTEDREEGMDVEEGEMGDEEAPTTCSSIPIDYNLYRKFW

LQDYFRNPVQCYEKISWKTFLKYSEEVLA VF KSYKLDDTQASRKKMEELKTGGEHVYFAK  
FLTSEKMLDLQLSDSNFRRHILLQYLILFQYLGQVKFKSSNYVLTDEQSLWIEDTTKSV  
YQLSENPPDGERFSKMVEHILNTEENWNSWKNEGCPSFVKERTSDTKPTRIIRKRTAPE  
DFLGKGPTKKILMGNEELTRLWNLCPDNMEACKSETREHMPTLEEFEEAIEQADPENMV  
ENEYKAVNNSNYGWRALRLLARRSPHFFQPTNQQFKSLPEYLENMVIKLAKELPPPSEEI  
KTGEDEDEEDNDALLKENESPDVRRDKPVTGEQIEVFANKLGEQWKILAPYLEMKDSEIR  
QIECDSEDMKMRKQLLVAVQDQEGVHATPENLINALNKSGLSDLAESLTNDNETNS

>sp|Q86W42|THOC6\_HUMAN THO complex subunit 6 homolog OS=Homo sapiens GN=THOC6 PE=1 SV=1

MERAVPLAVPLGQTEVFQALQRLHMTIFSQSVSPCGKFLAAGNNGQIAIFSLSSALSSE  
AKEESKKPVVTFQAHDGPVYSMVSTDRHLLSAGDGEVKAWLWAEMLKKGCKELWRRQPPY  
RTSLEVPEINALLVPKENSILAGGDCQLHTMDLETGTFTRVLRGHTDYIHCLALRERS  
PEVLSGGEDGAVRLWDLRTAKEVQTIEVYKHEECSRPHNGRWIGCLATDSDMVCGGGPA  
LTLWHLRSSTPTTIFPIRAPQKHVTFYQDLILSAGQGRCVNQWQLSGELKAQVPGSSPGL  
LSLSLNQQPAAPECKVLTAAGNSCRVDVFTNLGYRAFSLSF

>sp|Q9NXG2|THUM1\_HUMAN THUMP domain-containing protein 1 OS=Homo sapiens GN=THUMP1 PE=1 SV=2

MAAPAQQTTPGGGKRKGKAQYVLAKRARRCDAGGPRQLEPGLQGILITCNMNERKCVVEE  
AYSLLNEYGDDMYGPEKFTDKDQQPSGSEGEDDDAEAALKKEVGDIKASTEMRLRRFQSV  
ESGANNVVFIRTLGIEPEKLVHHILQDMYKTKKKKTRVILRMLPISGTCKAFLEDMKKYA  
ETFLEPWFKAPNKGTFQIVYKSRNNSHVNREEVIRELAGIVCTLNSENKVDLTNPQYTVV  
VEIIKAVCCLSVVKDYMLFRKYNLQEVVKS PKDPSQLNSKQGNGKEAKLESADKSDQNNT  
AEGKNNQQVPENTEELGQTKPTS NPQVVNEGGAKELASQATEGSKSNENDFS

>sp|O60830|TI17B\_HUMAN Mitochondrial import inner membrane translocase subunit Tim17-B OS=Homo sapiens GN=TIMM17B PE=1 SV=1

MEEYAREPCPWRIVDDCGGAFTMGVIGGVFQAIKGFRNAPVGIRHRLRGSANAVRIRAP  
QIGGSFAVWGGLFSTIDCGLVRLRGKEDPWSITSALTGAVLAARSGPLAMVGSAMMGG  
ILLALIEGVGILLTRYTAQQFRNAPPFLEDPSQLPPKDGTAPAGYPSYQQYH

>sp|Q8N5T2|TBC19\_HUMAN TBC1 domain family member 19 OS=Homo sapiens GN=TBC1D19 PE=1 SV=2

MLQESDLSLIIAQIVQKLKGSNLYSQLERQAWASLQRPEIKLESLEKEDIKEFFKISGWE  
KKLQNAVYSELSVFPLPSHPAAPPEHLKEPLVYMRKAQGSWEKRILKSLNSMCTELSIPL  
ARKRPVGEQKELLNKWNEMGTDEPDLSLFRPVYAPKDFLEVLINLRNPYENGDSLFRFRT  
HLGLIQVPLKVKDIPELKECFVELGLNIGQLGIDDSTQVPPELFENEHVRIQKVLAEQD  
SAAQQYIRQGSPTALRAELWALILNISSQPEDVLYEQLKTNVIQHDLLVDSL IYKDVK  
LTASNDYYFVFEDYLVLLCFSRDTSVLSHFVAFNSASPPKSYIRGKLGLEEYAVFYPP  
NGVIPFHGFSMYVAPLCFLYHEPSKLYQIFREMYVRRFFRLHSISSHPSGIVSLCLLFET  
LLQTYLPQLFYHLREIGAQPLRISFKWMVRAFSGYLATDQLLLLWDRILGYNSLEILAVL  
AAVFAFRAVNLMEVTSLAAAEAVLADLSTLKVMPLLQIFLFATVT

>sp|Q9ULP9|TBC24\_HUMAN TBC1 domain family member 24 OS=Homo sapiens GN=TBC1D24 PE=1 SV=2

MDSPGYNCVFDKMDAAIQDLGPKELSCTELQELKQLARQGYWAQSHALRGKVYQRLIR  
DIPCRTVTPDASVYSDIVGKIVGKHSSSCLPLPEFVDNTQVPSYCLNARGEGAVRKILLC  
LANQFPDISFCPALPAVVALLLHYSIDEAEFEKACRILACNDPGRRLIDQSFLAFESSC  
MTFGDLVNKYCAAHKLMAVSEDLVQVYADWQRWLFGEPLCYFARVFDVFLVEGYKVL  
YRVALAILKFFHKVRAGQPLESDSVKQDIRTFVRDIAKTVSPEKLLEKAFAIRLFSRKEI  
QLLQMANEKALKQKGITVKQKSVLSKRQFVHLAVHAENFRSEIVSVREMRDIWSWVPER

FALCQPLLLFSSLQHGYSLARFYFQCEGHEPTLLLIKTTQKEVCGAYLSTDWSE RNKFGG  
KLGFFGTGECFVFR LQPEVQRYEWVVIKHPELTKPPPLMAAEPTAPLSHSASSDPADRLS  
PFLAARHFNLPSKTESMFMAGGSDCLIVGGGGGQALYIDGDLNRGRTSHCDTFNNQPLCS  
ENFLIAAVEAWGFQDPDTQ

>sp|A6NER0|TBC3F\_HUMAN TBC1 domain family member 3F OS=Homo sapiens GN=TBC1D3F PE=2 SV=3

MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNV DHLGIVHETELPPL  
TAREAKQIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEM  
KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY  
NPEVG YCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKKDL CGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKH LRASMKKLTRKKGDVPPP  
AKPEQGSSASRPVPASRGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDL DVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRS AFAAPSTDSDQGT PFRARDEQQCAPTSGPCLCGLHL  
ESSQFPPGF

>sp|AOA087X1G2|TBC3K\_HUMAN TBC1 domain family member 3K OS=Homo sapiens GN=TBC1D3K PE=3  
SV=1

MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNV DHLGIVHETELPPL  
TAREAKQIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEM  
KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY  
NPEVG YCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE  
HVVATSQPKTMGHQDKKDL CGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI  
TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKH LRASMKKLTRKKGDLPPP  
AKPEQGSSASRPVPASRGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGA  
VREDTYPVGTQGVSPALAQGGPQGSWRFLQWNSMPRLPTDL DVEGPWFRHYDFRQSCWV  
RAISQEDQLAPCWQAEHPAERVRS AFAAPSTDSDQGT PFRARDEQQCAPTSGPCLCGLHL  
ESSQFPPGF

>sp|Q0IIM8|TBC8B\_HUMAN TBC1 domain family member 8B OS=Homo sapiens GN=TBC1D8B PE=1 SV=2

MWLKPEEVLLKNALKLWLMERSNDYFVLQRRRGYGEEGGGGLTGLLVGTLDSVLDSTAKV  
APFRILHQTPDSQVYLSIACGANREEITKHWDWLEQNIMKTL SVFDSNEDITNFVQ GKIR  
GLIAEEGKHCFKEDDPEKFR EALLKFEKCFGLPEKEKLVTYYSCSYWKGRVPCQGWLYL  
STNFLSFYSFLLGSEIKLIISWDEVSKLEKTSNVILTESIHVCSQGENHYFSMFLHINQT  
YLLMEQLANYAIRRLFDKETFDNDPVLYNPLQITKRGL ENRAHSEQFNAFFRLPKGESLK  
EVHECFLWVPF SHFNTHGMCISENYICFASQDGNQCSVI IPLREVL AIDKTNDSSKSVI  
ISIKGKTAFRFHEVKDFEQLVAKLR LRCAASTQYHDI STELAISSESTEPSDNF EVQSL  
TSQRECKSTVNTEALMTVFHPQNLETLSKMLKEKMKEQSWKILFAECGRGVSMFRTKKT  
RDLVVRGIPETL RGE LWM LFSGAVNDMATNPDY TEVVEQSLGTCNLATEEIERDLRRSL  
PEHPAFQSDTGISALRRVLTAYAYRNPKIGYCQAMNILTSVLLLYAKEEEAFWLLVAVCE  
RMLPDYFNRIIGALVDQAVFEELIRDHLPQLTEHMTDMTFFSSVLSWFLTLFISVLP I  
ESAVNVDCFFYDG IKA I LQLGLAILDYNLDKLLTCKDDAEAVTALNRFFDNVTNKDSPL  
PSNVQQGSNVSDEKTS HTRVDITDLIRESNEKYGNIRYEDIHSMRCRNRLYVIQTLEETT  
KQNVLRVVSQDVKLSLQELDEL YVIFKKELFLSCYWCLGCPVLKHHDPSLPYLEQYQIDC  
QQFRALYHLLSPWAHSANKDSLALWTFRLLDENS DCLINFKEFSSAIDIMYNGSFTEKLK  
LLFKLHIPPAYTEV KSKDASKGDELSKEELLYFSQLHVSKPANEKEAESAKHSPEKGKGK

IDIQAYLSQWQDELFKKEENIKDLPRMNQSQFIQFSKTLYNLFHEDPEEESLYQAIAVVT  
SLLLRMEEVGRKLHSPTSSAKGFGSTVCGSGGPSEKGTGSHLEKDPCSFPREEPQWSFAFE  
QILASLLNEPALVRFFFKPIDVKAKLENARISQLRSRTKM

>sp|Q15814|TBCC\_HUMAN Tubulin-specific chaperone C OS=Homo sapiens GN=TBCC PE=1 SV=2

MESVSCSAAAVRTGDMESQRDLVPERLQRREQERQLEVERRKQKRQNEVEKENSHEFF  
VATFVRERAABVEELLERAESVERLEEASRLQGLQKLINDSVFFLAAYDLRQGQALARL  
QAALAERRRGLQPKKRFAFKTRGKDAASSTKVDAAPGIPPAVESIQDSPLPKAEGDLGP  
SWVCGFSNLESQVLEKRASELHQRDVLLTELSNCTVRLYGNPNTLRLTKAHSCKLLCGPV  
STSVFLEDSCDCLAVACQQLRIHSTKDRIFLQVTSRAIVEDCSGIQFAPYTWSYPEID  
KDFESSGLDRSKNNWVDVDFNLWARDMASPNWSILPEEERNIQWD

>sp|Q9BQ87|TBL1Y\_HUMAN F-box-like/WD repeat-containing protein TBL1Y OS=Homo sapiens  
GN=TBL1Y PE=2 SV=1

MSITSDEVNFLVYRYLQESGFSSHAFTFGIESHISQSNINGTLVPPSALISILQKGLQYV  
EAEISINKDGTVFDSRPIESLSLIVAVIPDVVQMRQQAFGEKLTQQQASAAATEASAMAK  
AATMTPAAISQQNPPKNREATVNGEENGAHEINNHSKPMEDGDVEIPPKNATVLRGHES  
EVFICAWNPNVSDLLASGSGDSTARIWNLNENSNGGSTQLVLRHCIREGGHDVPSNKDVTS  
LDWNSDGTLLAMGSYDGFARIWTENGLASTLGQHKGPIFALKWNKKGNVLSAGVDKTT  
IIWDAHTGEAKQQFPFHSAPALDWDWQNNMTFASCSTDMCIHVCRLGCDHPVKTFQGHTN  
EVNAIKWDPGMLLASCSDDMTLKIWSMKQDACVHDLQAHSKEIYTIKWSPTGPATSNPN  
SSIMLASASFDSVRLWDVEQGVCTHTLMKHQEPVYSVAFSPDGKYLASGSFDKYVHIWN  
TQSGSLVHSYQGTGGIFEVCWNARGDKVGASASDGVCVLDL

>sp|Q8IZS6|TC1D3\_HUMAN Tctex1 domain-containing protein 3 OS=Homo sapiens GN=TCTE3 PE=1  
SV=1

MEKRGGRGVKSSPIQTPNQTPQQAPVTPRKERRPSMFEKEAYTQILRERLRESIHNVQYVE  
PPFDDSIADIGKEWKSALAKLKFANSYRMEPLKKFQAHSVETKVQQILTESLKDVKYDDK  
VFSHLSLELADRILLAVKEFGYHRYKFIKVLFIQKTGQAINIASRWIWDIAWDSWVAAK  
HEAESYVALVLVFALYYE

>sp|P17987|TCPA\_HUMAN T-complex protein 1 subunit alpha OS=Homo sapiens GN=TCP1 PE=1 SV=1

MEGPLSVFGDRSTGETIRSQNVMMAASIANIVKSSLGPGVGLDKMLVDDIGDVTITNDGAT  
ILKLEVEHPAAKVLCELADLQDKEVGDGTTSVVIAAELLKNADELVKQKIHPTSVISG  
YRLACKEAVRYINENLIVNTDELGRDCLINAAKTSMSKIIIGINGDFFANMVVDAVLAIK  
YTDIRGQPRYPVNSVNILKAHGRSQMESMLISGYALNCVVGSGQMPKRIVNAKIACLDFS  
LQKTKMKLGVQVVITDPEKLDQIRQRESKITKERIQKILATGANVILTTGGIDDMCLKYF  
VEAGAMAVRRVLKRDLEKRIAKASGATILSTLANLEGEETFEAAMLGQAEVVQERICDDE  
LILIKNTKARTSASIIILRGANDFMCEDEMERSLHDALCVVKRVLESKSVVPGGGAVEAALS  
IYLENYATSMGSREQLAIAEFARSLLVIPNTLAVNAAQDSTDVAKLRAFHNEAQVNP  
KNLKWIGLDLSNGKPRDNKQAGVFEPTIVKVKSLKFATEAAITILRIDDLIKLHPESKDD  
KHGSYEDAVHSGALND

>sp|Q9HAU6|TCTP8\_HUMAN Putative translationally-controlled tumor protein-like protein  
TPT1P8 OS=Homo sapiens GN=TPT1P8 PE=5 SV=2

MIIFQDLISHNEMFSDIYKIWEITNGLCLEVEQKMLSKTTGNTDDSLIGRNSSESTEDE  
VTESTIITSVDIVTNHHLQESIFTKEAYKKYIKDYMKSINEKLEEQRPERVKLFITGMKN  
KSSTSLIFKTTSSLLVKT



>sp|Q9H147|TDIF1\_HUMAN Deoxynucleotidyltransferase terminal-interacting protein 1 OS=Homo sapiens GN=DNTTIP1 PE=1 SV=2

MGATGDAEQPRGPGAERGGLDAGAAGQLVLTNPWNIMIKHRVQRRGRRSQMTTSF  
TDPAISMDLLRAVLQPSINEEIQTVFNKYMKFFQKAALNVRDNVGEEVDAEQLIQEACRS  
CLEQAKLLFSDGEKVIPRLTHELPGIKRGRQAEEECAHRGSPLPKKRKGRPPGHILSSDR  
AAAGMVWPKSCEPIRREGPKWDPARLNESTTFVLGSRANKALGMGGTRGRIYIKHPLF  
KYAADPQDKHWLAEQHHMRATGGKMAYLLIEEDIRDLAASDDYRGCLDLKLEELKSFVLP  
SWMVEKMRKYMETLRTENEHRAVEAPPQT

>sp|Q96MN5|TEAN2\_HUMAN Transcription elongation factor A N-terminal and central domain-containing protein 2 OS=Homo sapiens GN=TCEANC2 PE=1 SV=1

MDKFVIRTPRIQNSPQKKDSGGKVYKQATIESLKRVVVVEDIKRWKTMLELPDQTKENLV  
EALQELKKKIPSREVLKSTRIGHTVNMKMRKHSDEVASLAREVYTEWKTFTKHSNRPSI  
EVRSDPKTESLRKNAQKLLSEALELKMDHLLVENIERETFHLCSRLINGPYRRTVRALVF  
TLKHRAEIRAQVKSGLPVGTFVQTHKK

>sp|Q969V4|TEKT1\_HUMAN Tektin-1 OS=Homo sapiens GN=TEKT1 PE=1 SV=1

MAKLLQPPPFLPSEWHIANKNQYHRADAQRSRSERLVAESQRLVDEIEKTTRKSQSDVN  
KKLEQRLEEVSQFQWKELDDKLEQLVNVTDLLIYKIRLEKALETKEPLHITETCLAYRE  
KRIGIDLVDHTVEHELIIKEAEIIQGIMALLTRTLEEASEQIRMNRSKYNLEKDLKDKFV  
ALTIDDICFSLNNNSPNIRYSENAVRIEPNSVSLEDWLDIFSSTNVEKADKQRNNSMLKA  
LVDRILSQTANDLRKQCDVDTAFKNGLKDTKDARDKLADHLAKVMEEIASQEKNITALE  
KAILDQEGPAKVAHTRLETRTHRPNVELCRDVAQYRLMKEVQEITHNVARLKETLAQAQA  
ELKGLHRRQLALQEEIQVKENTIIYIDEVLCMQMRKSIPLRDGEDHGVWAGGLRPDAVC

>sp|Q9UIF3|TEKT2\_HUMAN Tektin-2 OS=Homo sapiens GN=TEKT2 PE=1 SV=1

MATLSVKPSRRFQLPDWHTNSYLLSTNAQLQRDASHQIRQEARVLRNETNNQTIWDEHDN  
RTRLVERIDTVNRWKEMLDKCLTDLDAEIDALTQMKEAEQNLQAKNLPLDVAIECLTLR  
ESRRDIDVVKDPVEDELHKEVEVIEATKKALQQKVSQAFEQLCLLQEVQQQLNSDHRGKM  
ETLEIDRGCLSLNLRSPNISLKVDPTRVPDGSSTLQQWDDFSRFNKDRAEAEMKAATELR  
EATALTIAETNNELEAQRVATEFAFRKRLREMEKVYSELKWQEKNTLEEIAELQEDIRHL  
EEDLRTKLLSLKLSHTRLEARTYRPNVELCRDQAQYGLTDEVHLEATIAALKQKLAQAQ  
DALDALCKHLARLQADIACKANSMLLDTKCMDTRRKLTPAERFVPEVDTFTRTTNSTLS  
PLKSCQLELA

>sp|Q96M29|TEKT5\_HUMAN Tektin-5 OS=Homo sapiens GN=TEKT5 PE=1 SV=1

MEFLGTTQTASYCGPKKCCGLTSLPAVQAPVIQECYQPYLPGYRYLNSWRPSLFYKIAN  
VQTCPEDESTTLRPPTILPTRLRSALFSRYSPhDWDQSNQLQVRGAEASRLWASRLTDDSM  
RLLQDKDQLTHQMQEGTCRNLGQRLSDIGFWKSELSYELDRLLTENQNLETVKRRLECAA  
NEVNCPLQVALECLYHREKRIGIDLVDNVEKNLIREVLLKCCQEQRKLAQRIDIQMR  
DNRDAQHVLERDLEDKSSAQCIDKCFNLNRTSDCISFFHGMEKIDGTISVPETWAKFSN  
DNIKHSQNMANSIQLREEAEHLFETLSDQMWRQFTDTNLAFNARISEVTDVKNKLQTQL  
AKTLQEIFAENTIMLLERSIMAKEGPLKVAQTRLECRTRRPNMELCRDIPQLKLVNEVF  
TIDDTLQTLKRLRRETQDTLQLLVMTKCRLEHELAIAKANTLCIDKEKCMGMRKTFPCTPR  
LVGHT

>sp|O14746|TERT\_HUMAN Telomerase reverse transcriptase OS=Homo sapiens GN=TERT PE=1 SV=1

MPRAPRCRAVRSLLRSHYREVLPLATFVRRLGPGQWRLVQRGDPAAFRALVAQCLVCVPW  
DARPPPAAPSFRQVSCLKELVARVLQRLCERGAKNVLAFGFALLDGARGGPPEAFTTSVR

SYLPNTVTDALRGSGAWGLLLRRVGGDVLVHLLARCALFVLVAPSCAYQVCGPPLYQLGA  
ATQARPPPHASGPRRRLGCERAWNHSVREAGVPLGLPAPGARRRGGSASRSLPLPKRPRR  
GAAPEPERTPVGGQSWAHPGRTRGPSDRGFCVVSPARPAEEATSLEGALSGTRHSHPSVG  
RQHHAGPPSTSRPPRPWDTPCPPVYAETKHFLYSSGDKEQLRPSFLLSSLRPSLTGARRL  
VETIFLGSRPWMPGTTPRRLPRLPQRYWQMRPLFLELLGNHAQCPYGVLLKTHCPLRAAVT  
PAAGVCAREKPPQGSVAAPEEEDTDPRLVQLLRQHSSPWQVYGFVRACLRRLVPPGLWGS  
RHNERFLRNTKKFISLGKHAKLSLQELTWKMSVRDCAWLRRSPGVGCVPAAEHRLREEI  
LAKFLHWLMSVYVVELLSFFVYTETTFQKNRLFFYRKS VWSKLQSIGIRQHLKRVQLRE  
LSEAEVRQHREARALLTSRLRFIPKPDGLRPVNM DYVVGARTFRREKRAERLTSRVKA  
LFSVLNYERARRPGLLGASVLGLDDIHRWRTFVLRVRAQDPPPELYFVKVDVTGAYDTI  
PQDRLTEV IAS I IKPQNTYCVRRYAVVQKAAHGHRKAFKSHVSTLTDLQPYMRQFVAHL  
QETSPLRDAVVIEQSSSLNEASSGLFDVFLRFMCHHAVRIRGKSYVQCQGIPQGSILSTL  
LCSLCYGD MENKLFAGIRRDGLLLRLVDDFLLVTPHLTHAKTFLRTLVRGVPEYGCVVNL  
RKT VVNFPEDEALGGTAFVQMPAHGLFPWCGLLLDTRTLEVQSDYSSYARTSIRASLTF  
NRGFKAGRNMRRKLFVGLRLKCHSLFLDLQVNSLQTVCTNIYKILLQAYRFHACVLQLP  
FHQQVWKNPTFFLRVISDTASLCYSILKAKNAGMSLGAKGAAGPLPSEAVQWLCHQAFL  
KLTRHRVTYVPLLGLSRTAQTQLSRKLP GTTLTALEAAANPALPSDFKTILD

>sp|Q96S53|TESK2\_HUMAN Dual specificity testis-specific protein kinase 2 OS=Homo sapiens  
GN=TESK2 PE=1 SV=1

MDRSKRNSIAGFPFRVERLEEFEGGGGGEGNVSQVGRVWPSSYRALISAFSRLTRLDFT  
CEKIGSGFFSEVFKVRHRASGQVMALKMNTLSSNRANMLKEVQLMNRLSHPNILRFMGVC  
VHQQLHALTEYINSGNLEQLLDSNLHLPWTVRVKLAYDIAVGLSYLHFKGIFHRDLTSK  
NCLIKRDENGYS AVVADFLAEKIPDVSMGSEKLAVVGSPFWMAPEVLRDEPYNEKADV  
SYGIILCEI IARIQADPDYLPRTENFGLDYDAFQHMVGDCPPDFLQLTFNCCNMDPKLRP  
SFVEIGKTL EEILSRLQEEEQERDKLQPTARGLLEKAPGVKRLSSDDKIPHKSPCPRR  
TIWLSRSQSDIFSRKPPRTVSVLDPYYRPRDGAARTPKVNPFSARQDLMGGKIKFFDLPS  
KSVISLVFDLDAPGPGT M PLADWQEPLAPPIRRWRSLPGSPEFLHQEACPFVGREESLSD  
GPPRLSSLKYRKEIPPFRASALPAAQAHEAMDCSILQEENGFGSRPQGTSPCPAGASE  
EMEVEERPAGSTPATFSTSGIGLQTQGKQDG

>sp|Q9Y6M0|TEST\_HUMAN Testisin OS=Homo sapiens GN=PRSS21 PE=1 SV=1

MGARGALLLALLARAGLRKPESQEAAPLSGPCRRVITSRIVGGEDAELGRWPWQGS LR  
LWD SHVCGVSLLSHRWALTAACHFETYSDLSDPGWMVQFGQLTSMPSFWSLQAYYTRYF  
VSNIYLSPRYLGNSPYDIALVKLSAPVTYTKHIQPICLQASTFEFENRTDCWVTGWGYIK  
EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG  
PLACNKNGLWYQIGVVS WGVGGRPNRPGVYTNISHHFEWIKLMAQSGMSQPDPSWPLL  
FFPLLWALPLLGPV

>sp|Q6N021|TET2\_HUMAN Methylcytosine dioxygenase TET2 OS=Homo sapiens GN=TET2 PE=1 SV=3

MEQDRTNHVEGNRLSPFLIPSPPICQTEPLATKLQNGSPLPERAHPEVNGDTKWH SFKSY  
YGIPCMKGSQNSRVSPDFTQESRGYSKCLQNGGIKRTVSEPSLSG LLQIKKLKQDQKANG  
ERRNFGVSQERNPGESSQPNVSDLSKKESVSSVAQENAVKDFTSFSTHNCSGPENPELQ  
ILNEQEGKSANYHDKNIVLLKNKAVLMPNGATVSASSVEH THGELLEKTLSQYYPDCVSI  
AVQKTTSHINAINS QATNELSCEITHPSHTSGQINSAQTSNSELPPKPAAVVSEACDADD  
ADNASKLAAMLNTCSFQKPEQLQQKSVFEICPSPAENNIQGTTKLASGE EFCGSSSNL  
QAPGGSSERYLKQNE MN GAYFKQSSVFTKDSFSATTPPPPSQLLSPPPPPLPQVPQLPS

EGKSTLNGGVLEEHHYPNQSNTLLREVKIEGKPEAPPSQSPNPSTHVCSPSPMLSERP  
QNNCVNRNDIQTAGTMTVPLCSEKTRPMSEHLKHNPPIFGSSGELQDNCQQLMRNKEQEI  
LKGRDKEQTRDLVPPTQHLYLKPWIELKAPRFHQAESHLKRNEASLPSILQYQPNLSNQ  
TSKQYTGNSNMPGGLPRQAYTQKTTQLEHKSQMYQVEMNQGSQSGTVDQHLQFQKPSHQV  
HFSKTDHLPKAHVQSLCGTRFHQQRADSQTEKLMSPVLKQHLNQQASETEPFSSNHLQ  
HKPHKQAAQTQPSQSSHLPPQNQQQQKLQIKNKEEILQTFPHQSNNDQREGSFFGQTK  
VEECFHGENQYSKSEFETHNVQMGLLEEVQINRRNSPYSQTMKSSACKIQVSCSNTHL  
VSENKEQTTHPELFAGNKTQNLHHMQYFPNNVIPKQDLLHRCFQEQEQKSQQASVLQGYK  
NRNQDMSGQAAQLAQQRYLIHNHANVFPVPDQGSHTQTPPQKDTQKHAALRWHLQKQ  
EQQQTQPPQTESCHSQMHRPIKVEPGCKPHACMHTAPPENKTWKVTKQENPPASCDNVQ  
QKSI IETMEQHLKQFHAKSLFDHKALTLKSQKQVKVEMSGPVTVLTRQTTAAELDSHTPA  
LEQQTTSSEKTPTKRTAASVLNFIESPskLLDTPIKNLLDTPVKTQYDFPSCRCVEQII  
EKDEGPFYTHLGAGPNVAAIREIMEERFGQKGAIRIERVIYTGKEGKSSQGCPIAKWVV  
RRSSSEEKLLCLVRERAGHTCEAAVIVILILVWEGIPLSLADKLYSELTETLRKYGTLTN  
RRCALNEERTCACQGLDPETCGASFSFGCSWSMYNGCKFARSKI PRKFLLGDDPKEEE  
KLESHLQNLSTLMAPTYKKLAPDAYNNQIEYEHRAPECRLGLKEGRPFSGVTACLDFAH  
AHRDLNMQNGSTLVCTLTREDNREFGGKPEDEQLHVLPLYKVSDVDFGVSVEAQEEKR  
SGAIQVLSSFRKVRMLAEPVKTCRQRKLEAKKAAAEKLSLENSSNKNEKEKSAPSRK  
QTENASQAKQLAELLRLSGPVMQSQQPQLKQPPQPQQQRPQQQPPHHPQTESVNSY  
SASGSTNPYMRPNPVPSPYNSSTSDIYGSTSPMNFYSTSSQAAGSYLSSNPMNPYPG  
LLNQNTQYPSYQCNGNLSVDNCSPLYGSPQSPMDLYRPSQDPLSKLSLPIHTLYQ  
PRFGNSQSFTSKYLGYNQNMQGDGSSCTIRPNVHHVGKLPPYPTHEMDGHFMGATSRL  
PPNLSNPNDYKNGEHHSPSHI IHNYSAAPGMFNSSLHALHLQNKENDMLSHTANGLSKM  
LPALNHDRTACVQGLHLKLSANGQEKQPLALVQGVASGAEDNDEVWSDSEQSFLDPDIG  
GVAVAPTHGSILIECAKRELHATTPLKNPNRHPTRISLVFYQHKSMEPKHGLALWEAK  
MAEKAREKEEECEKYGPDYVPQKSHGKKVKREPAEPHETSEPTYLRFIKSLAERTMSVTT  
DSTVTTSPYAFTRVTGPYNRYI

>sp|Q8NA77|TEX19\_HUMAN Testis-expressed sequence 19 protein OS=Homo sapiens GN=TEX19 PE=2  
SV=1

MCPPVSMRYEEEGMSYLYASWMYQLQHGDQLSICFTCFKAAFLDFKDLLESEDWEEDNWD  
PELMEHTEAESEQEGSSGMELSWGQSPGQPVQGGSEAWGPGTLAAAPGLEDAGLDPHFV  
PTELWPQEA VPLGLGLEADWTQGLPWRFEELLTCSHWPSFFPS

>sp|Q9NTU4|TEX40\_HUMAN Testis-expressed sequence 40 protein OS=Homo sapiens GN=TEX40 PE=2  
SV=1

MEEKPSKVLKSSDRQGSDEESVHSDTRDLWTTTTLSQAQLNMPLSEVCEGFDEEGRNIS  
KTRGWHSPGRGSLDEGYKASHKPEELDEHALVELELHRGSSMEINLGEKDTASQIEAEKS  
SSMSSLNIAKHMPHRAYWAEQQSRLPLPLMELMENEALEILTKALRSYQLGIGRDHFLTK  
ELQRYIEGLKKRRSKRLVYN

>sp|Q8IUE1|TF2LX\_HUMAN Homeobox protein TGIF2LX OS=Homo sapiens GN=TGIF2LX PE=1 SV=1

MEAAADGPAETQSPVEKDSPAQTQSPAQDTSIMSRNNADTGRVLALPEHKKKKRGNLPAE  
SVKILRDWMYKHRFKAYPSEEEKQMLSEKTNLSLLQISNWFINARRRILPDMLQQRNDP  
IIGHKTGKDAHATHLQSTEASVPAKSGPSGPDNVQSLPLWPLPKGQMSREKQPDPEAPS  
QKLTGIAQPKKKVKVSVTSPSSPELVSPPEHADFFSFLLLVDAAVQRAAELELEKKQEPN

>sp|Q14186|TFDP1\_HUMAN Transcription factor Dp-1 OS=Homo sapiens GN=TFDP1 PE=1 SV=1

MAKDAGLIEANGELKVFIDQNLSPGKGVVSLVAVHPSTVNPLGKQLPKTFGQSNVNIAQ  
QVVIGTPQRPAASNTLVVGGSPHTPSTHFASQNPQSDSSPWSAGKRNKGEKNGKGLRHFS  
MKVCEKVQRKGTTTSYNEVADELVAEFSAADNHILPNESAYDQKNIRRRVYDALNVLAMN  
IISKEKKEIKWIGLPTNSAQECQNLEVERQRRLERIKQKQSQLQELILQQIAFKNLVQRN  
RHAEQQASRPPPPNSVIHLPIIVNTSKKTVIDCSISNDKFEYLFNFDNTFEIHDDIEVL  
KRMGMACGLESGSCSAEDLKMARSLVPKALEPYVTEMAQGTGGVFITTAGSTSNCTRFS  
ASDLTNGADGMLATSSNGSQYSGSRVETPVSYVGEDDEEDDDFNENEDDD

>sp|Q15583|TGIF1\_HUMAN Homeobox protein TGIF1 OS=Homo sapiens GN=TGIF1 PE=1 SV=3

MVLAQSRVSAGVGSPhCSGSGGGGSDSFPWPASHPGNPQCSFSTAFLASPRLSRGTLAYL  
PPAPWSSLATPSALLGSSCAPPPPPARCPQPRALSPELGTAGPRRPHRWELPRSPSQGA  
QGPAPRRRLLETMKGIVAASGSETEDEDSMDIPLDLSSAGSGKRRRRGNLPKESVQILR  
DWLYEHRYNAYPSEQEKALLSQQTHLSTLQVCNWFINARRRLLPDMLRKDGKDPNQFTIS  
RRGAKISETSSVESVMGIKNFMPALEETPFHSCSTAGPNPTLGRPLSPKPSSPGSVLARPS  
VICHTTVTALKDVPFSLCQSVGVGQNTDIQQAANKFTDTSMLYPEDTCKSGPSTNTQSG  
LFNTPPPTPPDLNQDFSGFQLLDVALKRAEMELQAKLTA

>sp|Q99757|THIO\_HUMAN Thioredoxin, mitochondrial OS=Homo sapiens GN=TXN2 PE=1 SV=2

MAQRLLLRFLASVISRKPSQGWPLTSRALQTPQCSPGGLTVTPNPARTIYTTRISLT  
TFNIQDGPDFQDRVNSETPVVDFHAQWCGPCKILGPRLEKMKVAKQHKGKVVMAKVDIDD  
HTDLAIEYEVSAVPTVLAMKNGDVVDKFGIKDEDQLEAFLKKLIG

>sp|P10599|THIO\_HUMAN Thioredoxin OS=Homo sapiens GN=TXN PE=1 SV=3

MVKQIESKTAFQEALDAAGDKLVVDFSATWCGPCKMIKPFHSLSEKYSNVIFLEVDVD  
DCQDVASECEVKCMPTFQFFKKGQKVGFEFGANKEKLEATINELV

>sp|O95411|TIAF1\_HUMAN TGFB1-induced anti-apoptotic factor 1 OS=Homo sapiens GN=TIAF1  
PE=2 SV=2

MSSPSPFREQSFLCAAGDAGEESRVQVLKNEVRRGSPVLLGWVEQAYADKVCVCGPSAPP  
APTPPSLSQRVMCNDFKVNPFQLQQFRADPSTASLLCPGGLDHKLNLRGKAWG

>sp|Q8IVF5|TIAM2\_HUMAN T-lymphoma invasion and metastasis-inducing protein 2 OS=Homo  
sapiens GN=TIAM2 PE=2 SV=4

MGNSDSQYTLQSGKNHSNTITGAKQIPCSLKIRGIHAKEEKSLHGWGHGSNGAGYKSRSL  
ARSCLSHFKSNQPYASRLGGPTCKVSRGVAYSTHRTNAPGKDFQGISAASFSTENGHFSVG  
HELADNHTSRDCNGHLLNCYGRNESIASTPPGEDRKSPRVLIKTGLKLDGCLRVEFHNG  
GNPSKVPAEDCSEPVQLLRYSPTLASETSPVPEARRGSSADSLPSHRPSPTDSRLRSSKG  
SSLSESSWYDSPWGNAGELSEAEQSFLAPGMPDPSLHASFPFGDAKKPFNQSSSLSSLR  
ELYKDANLGSLSPSGIRLSDEYMGTHASLSNRVSFASDIDVPSRVAHGDP IQYSSFTLPC  
RKPKAFVEDTAKKDSLKARMRRISDWTGSLSRKKRKLQEPRSKEGSDYFDSRSDGLNTDV  
QGSSQASAFWLWGGSTQILSQRSESTHAIGSDPLRQNIYENFMRELEMSRTNTENIETST  
ETAESSSESLSSLEQLDLLFEKEQGVVRKAGWLFFKPLTVQKERKLELVARRKWKQYVW  
TLKGCTLLFYETYGKNSMDQSSAPRCALFAEDSIVQSVPEHPKKENVFCLSNSFGDVYLF  
QATSQTDLENVWTAVHSACASLFAKKHGKEDTLRLLNQTKNLLQKIDMDSKMKMAELQ  
LSVSDPKNRKAIENQIQWEQNLEKFHMDLFRMRCYLASLQGGELPNPKSLLAAASRPS  
KLALGRLGILSVSSFHALVCSRDDSALRKRTLSTQGRNKKGIFSSLKGLDTLARKGKE  
KRPSITQVDELLHIYGSTVDGVPRDNAWEIQTYVHFQDNHGVTVGIKPEHRVEDILTAC  
KMRQLEPSHYGLQLRKLVDNVEYCIPAPYEYMQQVYDEIEVFPLNVYDVQLTKTGSVC

DFGFAVTAQVDERQHLSRIFISDVLDPGLAYGEGLRKGNEIMTLNGEAVSDLDLKQMEAL  
FSEKSVGLTLIARPPDTKATLCTSWSDSLFSDQKSLPPPNQSQLLEEFLDNFKKNTA  
NDFSNPVDITITGLKRSQTDGTLQVSHREKMEQTFRSAEQITALCRSFNDSQANGMEGPR  
ENQDPPPRSLARHLSADRLRKVIQELVDTEKSYVKDLSCFLFELYLEPLQNETFLTQDEM  
ESLFGSLPEMLEFQKVFLLETLEDGISASSDFNTLETSPQFRKLLFSLGGSFLYYADHFKL  
YSGFCANHIKVQKVLERAKTDAFKAFLDARNPTKQHSSTLESYLKPVQVRVLKYPLLLK  
ELVSLTDQESEEHYHLTEALKAMEKVASHINEMQKIYEDYGTVPDQLVAEQSGTEKEVTE  
LSMGELLMHSTVSWLNPFLSLGKARKDLELTVFVFKRAVILVYKENCKLKKKLPSNSRPA  
HNSTDLDPFKFRWLPIISALQVRLGNPAGTENNSIWELIHTKSEIEGRPETIFQLCCSDS  
ESKTNIVKVIRSILRENFRRIKCELPLEKTCKDRLVPLKNRVPVSAKLASSRSLKVLKN  
SSSNEWTGETGKGTLSDSEGLSSGTQSSGCPTAEGRQDSKSTSPGKYPHPGLADFADN  
LIKESDILSDEDDHRQTVKQGSPTKDIEIQFQRLRISEDPDVHPEAEQQPGPESGEGQK  
GGEQPKLVRGHFCPIKRKANSTKRDRGTLLKAQIRHQSLDSQSENATIDLNSVLEREFSV  
QSLTSVVSEECFYETESHGKS

>sp|P35590|TIE1\_HUMAN Tyrosine-protein kinase receptor Tie-1 OS=Homo sapiens GN=TIE1 PE=1  
SV=1

MVWRVPPFLLPILFLASHVGAAYDLTLLANLRLTDPQRFFLTVCVSGEAGAGRGSDAWGPP  
LLEKDDRIVRTPPGPPLRLARNGSHQVTLRGFSKPSDLVGVFSCVGGAGARRTRVIYVH  
NSPGAHLPLDKVTHTVNKGDTAVLSARVHKEKQTDVIWKSNGSYFYTLDWHEAQDGRFLL  
QLPNVQPPSSGIYSATYLEASPLGSAFFRLIVRGCGAGRWGPCTKECPGCLHGGVCHDH  
DGECVCPPGFTGTRCEQACREGRFQSCQECPGISGCRGLTFCLPDYPGCSGSGWRGS  
QCQEACAPGHFGADCRLQCQCQNGGTCDRFSGCVCPSGWHGVHCEKSDRIPQILNMASEL  
EFNLETMPRINCAAAGNPFPVRGSIELRKPDTGTVLLSTKAIVEPEKTTAEFEVPRVLAD  
SGFWEICRVSTSGGQDSRRFKVNVKVPVPLAAPRLTKQSRQLVVSPLVSFSGDGPISTV  
RLHYRPQDSTMDWSTIVVDPSENVTLMNLRPKTGYSVRVQLSRPGEGGEGAWGPPTLMTT  
DCPEPLLQPWLEGWHVEGTDRLRVSWSLPLVPGPLVGDGFLRLWDGTRGQERRENVSSP  
QARTALLTGLTPGTHYQLDVQLYHCTLLGPASPPAHVLLPPSGPPAPRHLHAQALSDSEI  
QLTWKHPEALPGPISKYVVEVQVAGGAGDPLWIDVDRPEETSTIIRGLNASTRYLFRMRA  
SIQGLGDWSNTVEESTLGNGLQAEGPVQESRAAEGLDQQLILAVVGSVSATCLTILAAL  
LTLVCIRRSCLHRRRTFTYQSGSGEETILQFSSGTLTLTRRPKLQPEPLSYPVLEWEDIT  
FEDLIGEGNFGQVIRAMIKKDGLKMNAIAIKMLKEYASENHRDFAGELEVLCKLGHHPNI  
INLLGACKNRGYLYIAIEYAPYGNLLDFLRKSRVLETDPFAFAREHGTASTLSSRQLLRFA  
SDAANGMQYLSEKQFIHRDLAARNVLVGENLASKIADFGLSRGEEVYVKKTMGRLPVRWM  
AIESLNYSVYTTKSDVWSFGVLLWEIVSLGGTPYCGMTCAELYEKLQGYRMEQPRNCDD  
EVYELMRQCWRDRPYERPPFAQIALQLGRMLEARKAYVNMSLFENFTYAGIDATAEEA

>sp|Q9Y5J7|TIM9\_HUMAN Mitochondrial import inner membrane translocase subunit Tim9  
OS=Homo sapiens GN=TIMM9 PE=1 SV=1

MAAQIPESDQIKQKFEFLGTYNKLTETCFDLCVKDFTTREVKPEETTCSEHCLQKYLKMT  
QRISMRFQEYHIQQNEALAAKAGLLGQPR

>sp|P01033|TIMP1\_HUMAN Metalloproteinase inhibitor 1 OS=Homo sapiens GN=TIMP1 PE=1 SV=1

MAPFEPLASGILLLLWLIAPSRACCTVPPHPQTAFCSNDLVIRAKFVGTPENVQTTLYQR  
YEIKMTKMYKGFQALGDAADIRFVYTPAMESVCGYFHRSHNRSEEFLLIAGKLQDGLLHIT  
TCSFVAPWNSLSLAQRGFTKTYTVGCEECTVFPCLSIKCKLQSGTHCLWTDQLLQGSEK  
GFQSRHLACLPREPGLCTWQSLRSQIA

>sp|Q9GZM7|TINAL\_HUMAN Tubulointerstitial nephritis antigen-like OS=Homo sapiens  
GN=TINAGL1 PE=1 SV=1

MWRCPLGLLLLLPLAGHLALGAQQGRGRRELAPGLHLRGIRDAGGRYCQEQLCCRGRAD  
DCALPYLGAICYCDLFCNRTVSDCCPDFWDFCLGVPPFPPIQGCMHGGRIYPVLGTYWD  
NCNRCTCQENRWQCDQEPCLVDPDMIKAINQGNYGWQAGNHSAFWGMTLDEGIRYRLGT  
IRPSSSVMMHEIYTVLNPGEVLPATAFEASEKWPNLIHPLDQGNCAWSAFSTAAVASD  
RVSIHSLGHMTPVLSQNLSCDTHQQGCGRGRDLGAWWFLRRRGVSDHCYPFSGRER  
DEAGPAPPCMMHSRAMGRGKRQATAHCPNSYVNNNDIYQVTPVYRLGSNDKEIMKELMEN  
GPVQALMEVHEDFFLYKGGIYSHTPVSLGRPERYRRHGTHSVKITGWGEETLPDGRTLKY  
WTAANSWGPWGERGHFRIVRGVNECDIESFVLGVWGRVGMEDMGHH

>sp|Q9BSI4|TINF2\_HUMAN TERF1-interacting nuclear factor 2 OS=Homo sapiens GN=TINF2 PE=1  
SV=1

MATPLVAGPAALRFAAAASWQVVRGRCVEHFPRVLEFLRSLRAVAPGLVRYRHHERLCMG  
LKAKVVVELILQGRPWAQVLKALNHHFPESGPIVRDPKATKQDLRKILEAQETFYQQVKQ  
LSEAPVDLASKLQLEQEYGEPLAAMEKLLFEYLCQLEKALPTPQAQQLQDVLSSWMPG  
VSITSSLAWRQYGVDMGWLLPECSVTDSVNLAEPMEQNPPQQRLALHNPLPKAKPGTHL  
PQGSSRTHPEPLAGRHFNLAPLGRRRVQSQWASTRGGHKERTVMLFPFRNLGSPTQVI  
SKPESKEEHAIYTADLAMGTRAASTGKSKSPCQTLGGRALKENPVDLPATEQKENCLDCY  
MDPLRLSLLPPRARKPVCPPSLCSSVITIGDLVLDSEEEENGQEGEKESLENYQKTKFDT  
LIPTLCEYLPPSGHGAIPVSSDCRDSRPL

>sp|P25325|THTM\_HUMAN 3-mercaptopyruvate sulfurtransferase OS=Homo sapiens GN=MPST PE=1  
SV=3

MASPLCRALVSAQWVAEALRAPAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFF  
DIDQCSDRTPSYDHMLPGAEHFAEYAGRLGVAATHVVIYDASDQGLYSAPRVWWMFRAF  
GHHAVSLLDGGLRHWRNLPLSSGKSQPAPAEFRAQLDPAFIKTYEDIKENLESRRFQV  
VDSRATGRFRGTEPEPRDGIPEGHIPGTNIPFTDFLSQEGLEKSPEEIRHLFQEKKVDL  
SKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWYMRARPEDVISEGRGKTH

>sp|Q92563|TICN2\_HUMAN Testican-2 OS=Homo sapiens GN=SPOCK2 PE=1 SV=1

MRAPGCGRLVPLLLLLAAAALAEGLAKLKEGETPGNFMEDQWLSSISQYSGKIKHWNR  
FRDEVEDDYIKSWEDNQGDALDITKDPCKVKCSRHKVCIAQGYQRAMCISRKLEHR  
IKQPTVKLHGKDSICKPCHMAQLASVCGSDGHTYSSVCKLEQQACLSSKQLAVRCEGPC  
PCPTEQAATSTADGKPETCTGQDLADLGDRLRDWFQLHNSKQNGSASSVAGPASGLDK  
SLGASCKDSIGWMFSKLDTSADLFLDQTELAALNDKYEVCI RPFNSCDTYKDGRVSTA  
EWCFCFWREKPPCLAELERIQIEAAKKKPGIFIPSCDEDGYRKMCDQSSGDCWCVDQ  
LGLELTGTRTHGSPDCDDIVGFSGDFGSGVGEDEEEKETEEAGEEAEDEEGEAGEADDG  
GYIW

>sp|Q7Z2Z1|TICRR\_HUMAN Treslin OS=Homo sapiens GN=TICRR PE=1 SV=2

MACCHKVMLLLD TAGGAARHSRVRAALRLTYLSCRFLARVHWAFKFFDSQGARSRPS  
RVSDFRELGSRSWEDFEEELARLEDRAHLPGPAPRATHTHGALMETLLDYQWDRPEITS  
PTPKILRSSGRRLLDVESEAKEAEALGGLVNAVFLAPCPHSQRELLQFVSGCEAAQQR  
LPPTPKQVMEKLLPKRVREVMARKITFYWVDTEWSKLWESPDHLGYWTVCELLHHGGG  
TVLPSEFSWDFAGEMLLRSGIKLSSEPHLSPWISMLPTDATLNRLLYNSPEYEASFP  
RMEGMLFLPVEAGKEIQETWTVTLEPLAMHQRHFQKPVRIFLKGSVAQWSLPTSSTLTGD  
SWMLGSPEESTATQRLLFQQLVSRLTAEELHLVADVPGEGRPPITGVISPLSASAMILT

VCRTKEAEFQRHVLQTAVADSPRDASLFSDVVDSILNQTHDSLADTASAASPVPEWAQQ  
ELGHTTPWSPAVVEKWFPFCNISGASSDLMESFGLLQAASANKEESSKTEGELIHCLAEL  
YQRKSREESTIAHQEDSKKKRGVPRTPVRQKMNTMCRSLKMLNVARLNVKAQKLHPDGSP  
DVAGEKGIQKIPSGRTVDKLEDRGRTLRSKPKDFKTEEELLSYIRENYQKTVATGEIML  
YACARNMISTVKMFLKSKGTKELEVNCLNQVKSSLLKTSKSLRQNLGKKLDKEDKVRECQ  
LQVFLRLEMCLQCPSINESTDDMEQVVEEVDLLRMVCLTEDSAYLAEFLEEILRLYIDS  
IPKTLGNLYNSLGFVIPQKLAGVLPDFFSDDSMQENKSPLLSVPFLSSARRSVSGSPE  
SDELQELRTRSAKRRKNALIRHKSIAEVSQNLRIEIPKVSKRATKKENSHAPQQPSQ  
PVKDTVQEVTKVRRNLNFQELLSPSKRSKRLRGLPRSHSVSAVDGLEDKLDNFKNKGYHK  
LLTKSVAETPVHKQISKRLHRQIKGRSSDPGPDIGVVEESPEKGDEISLRRSPRIKQLS  
FSRTHSASFYSVSQPKRSVQVRVHSFQQDKSDQRENSPVQSIRSPKSLLFGAMSEMISPS  
EKGSARMKKRSRNTLDSEVPAAYQTPKKSHQKSLSFSKTPPRISHTPQTPLYTPERLQK  
SPAKMTPTKQAAFKESELKSSSPGHDSPLDSKITPQKRHTQAGEGTSLETCTPRTPKRQG  
TQPPGFLPNCTWPHSVNSSPESPCPAPPTSSTAQPRRECLTPIRDPLRTPPRAAFMGT  
PQNQTHQQPHVLAARAAEPAQKLKDKAIAKTPKRPGNSTVTSSPPVTPKKLFTSPLCDVS  
KKSPFRKSKIECPSPGELDQKEPQMSPSVAASLSCPVPSTPPELSQRATLDTVPPPPPSK  
VGKRCRKTSPPRRSIVECPDASATPGVGTADSPAAPTDSDDDQKGLSLSPQSPERRGY  
PGPGLRSDWHASSPLLITSDTEHVTLLSEAEHHGIGDLKSNVLSVEEGEGLRTADAEKSS  
LSHPGIPSPSPSCGPGSPLMPSRDVHCTTDGRQCQASQALDNLPAWAHSTDSASPQTYE  
VELEMQASGLPKLRKIDPSSSLEAEPLSKEESSLGEESFLPALSMPRASRSLKPEPT  
YVSPPCPRLSHSTPGKSRGQTYICQACTPTHGPSSTPSPFQTDGVPWTPSPKHSGKTPD  
IIKDWPRRKRAVGCAGSSSGRGEVGADLPGSLSLLESEGKDHGLELSIHRTPILEDL  
EGVCQLPDQSPPRNSMPKAAEASSWGQFGLSSRKRVLLAKEEADRGAKRICDLREDSEVS  
KSKEGSPSWSAWQLPSTGDEEVFVSGSTPPPSCAVRSCLSASALQALTQSPLLQGKTPS  
SQSKDPRDEDVDLPSTVEDSPFSRAFSRRRPISRTYTRKKLMGTWLEDL

>sp|Q9NPL8|TIDC1\_HUMAN Complex I assembly factor TIMMDC1, mitochondrial OS=Homo sapiens  
GN=TIMMDC1 PE=1 SV=2

MEVPPAPRSFLCRALCLFPRVFAAEAVTADSEVLEERQKRLPYVPEPYYPESGWDRLRE  
LFGKDEQQRISKDLANICKTAATAGIIGWVYGGIPAFIHAKQQYIEQSQAIEYHNRFDAV  
QSAHRAATRGRFIRYGRWGWRTAVFVTIFNTVNTSLNVYRNKDALSHFVIAGAVTGSFLR  
INVGLRGLVAGGIIGALLGTPVGGLLMAFQKYSETVQERKQKDRKALHELKLEEWKGR  
QVTEHLPEKIESSLQEDEPENDAKKIEALLNLPNPSVIDKQDKD

>sp|Q02763|TIE2\_HUMAN Angiopoietin-1 receptor OS=Homo sapiens GN=TEK PE=1 SV=2

MDSLASLVLCGVSLLLSGTVEGAMDILILINSLPLVSDAETSLTCIASGWRPHEPITIGRD  
FEALMNQHQDPLEVTQDVTREWAKKVWVKREKASKINGAYFCEGRVRGEAIRIRTMKMRQ  
QASFLPATLTMTVDKGDVNIISFKKVLKEEDAVIYKNGSFIHVSVRHEVPDILEVHLPH  
AQPQDAGVYSARYIGGNLFTSAFTRLIVRRCEAQKWGPECNHLCTACMNGVCHEDTGEC  
ICPPGFMGRTCEKACELHTFGRTCKERCSGQEGCKSYVFCLPDYPGCSCATGWKGLQCNE  
ACHPGFYGPDCKLRCSCNNGEMCDRFQGCCLSPGWQGLQCEREGIQRMTPKIVDLPDIE  
VNSGKFNPICKASGWPLPTNEEMTLVKPDGTVLHPKDFNHTDHFSAIFTIHRILPPDSG  
VWVCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFAVINISSEPYFGDGPIKSKK  
LLYKPVNHYEAWQHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGGEGHPGVRRFTAS  
IGLPPRGLNLLPKSQTTNLNLTWQPIFPSSSEDDFYVEVERRSVQKSDQQNIKVPGNLTSV  
LLNNLHPREQYVVRARVNTKAQGEWSEDLTAWTSLDILPPQENIKISNITHSSAVISWT

ILDGYSISSITIRYKVQGKNEDQHVDVKIKNATITQYQLKLEPETAYQVDIFAENNIGS  
SNPAFSHELVTLPESQAPADLGGGKMLLIAILGSAGMTCLTVLLAFLIILQLKRANVQRR  
MAQAFQNVREEPVQFNSGTLALNRKVKNPDPTIYPVLDWNDIKFQDVIQEGNFGQVLK  
ARIKKDGLRMDAAIKRMKEYASKDDHRDFAGELEVLCGLGHPNIINLLGACEHRGYLYL  
AIEYAPHGNLLDFLRKSRVLETDPAFAIANSTASTLSSQQLLHFAADVARGMDYLSQKQF  
IHRDLAARNILVGENVYAKIADFGLSRGQEVYVKKTMGRLPVRWMAIESLNYSVYTTNSD  
VWSYGVLLWEIVSLGGTPYCGMTCAELYEKLPGYRLEKPLNCDDEVYDLMRQCWREKPY  
ERPSFAQILVSLNRMLEERKTYVNTTLYEKFTYAGIDCSAEAAA

>sp|Q4W5G0|TIGD2\_HUMAN Tigger transposable element-derived protein 2 OS=Homo sapiens  
GN=TIGD2 PE=3 SV=1

MLGKRKRVLTIKDKLDIIKKLEEGISFKKLSVVYGIGESTVRDIKKNKERIINYANSSD  
PTSGVSKRKSMKSSTYEELDRVMIEWFNQKQTDGIPVSGTICAKQAKFFDALGMEGDFN  
ASSGWLTRFKQRHGIPKAAGKGTKLKGDetaAAREFCGSFQEFVEKENLQPEQIYGADQTG  
LFWKCLPSRTLTLTDQSTSGCRSSRERIIIMCCANATGLHKLNLVVGKAKKPRAFSGT  
DLNLPVTYYYSQKGAWIEQSVFRQWFEEKYFVPQVQKHLKSKGLLEKAVLLLDPPPAPNE  
EMLSSDDGRIIVKYLPNVTSLIQPMSQGVLATVKRYRAGLLQKYMDEGNDPKIFWKNL  
TVLDAIYEVSRANMVKSSITIKAWKKLFPNGEENSGMNIDEGAILAANLATVLQNTTEEC  
EHVDIENIDQWFSRSSDSSCQVLTDSESAEDQTKAAEQPSSKSRKTELNPEKHISHKA  
ALEWTENLLDYLEQQDDMLLSDKLVLRRLRTIIRKKQKIQNNKNH

>sp|Q9NQ88|TIGAR\_HUMAN Fructose-2,6-bisphosphatase TIGAR OS=Homo sapiens GN=TIGAR PE=1  
SV=1

MARFALTVVRHGETRFNKEKIIQGGQVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLM  
RTKQTMHGILERSKFCCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFTTP  
GGETLDQVKMRGIDFFEFCLQLILKEADQKEQFSQGPSNCLETSLAEIFPLGKNHSSKV  
NSDSGIPGLAASVLVSHGAYMRSFLDYFLTDLKCSLPATLSRSELSVTPNTGMSLFII  
NFEEGREVKPTVQCICMNLQDHLNGLTETR

>sp|Q9Y3D7|TIM16\_HUMAN Mitochondrial import inner membrane translocase subunit TIM16  
OS=Homo sapiens GN=PAM16 PE=1 SV=2

MAKYLAQIIVMGVQVVGRAFARALRQFAASRAAADARGRAGHRSAAASNLSGLSLQEAQ  
QILNVSKLSPEEVQKNYEHLFKVNDKSVGGSFYLSKVVRAKERLDEELKIQAQEDREKG  
QMPHT

>sp|Q99727|TIMP4\_HUMAN Metalloproteinase inhibitor 4 OS=Homo sapiens GN=TIMP4 PE=2 SV=1  
MPGSPRPAPSWVLLLRLLALLRPPGLGEACSCAPAHPPQHCHSALVIRAKISSEKVVPA  
SADPADTEKMLRYEIKQIKMFKGFVKVDVQYIYTPFDSSLCGVKLEANSQKQYLLTGQV  
LSDGKVFHLCNYIEPWEDLSLVQRESLNHHYHLNCGCQITTCYTPCTISAPNECLWTD  
WLLERKLYGYQAQHYVCMKHVDGTCSWYRGHLPLRKEFVDIVQP

>sp|Q9BVW5|TIPIN\_HUMAN TIMELESS-interacting protein OS=Homo sapiens GN=TIPIN PE=1 SV=2  
MLEPQENGVIDLPDYEHVEDETFPFPFPASPERSQDGEGTEPDEESGNGAPVRVPPKRTV  
KRNIPLKDAQRLISERGLPALRHVFDKAKFKGKGHEADLKMLIRHMEHWAHRLFPKLQF  
EDFIDRVEYLSGKKEVQTCCLKRIRLDLPILHEDFVSNNDVAENNEHVDVSTELDPFLT  
LSESEMFASELSRSLTEEQQQRIERNKQLALERRQAKLLSNSQTLGNDMLMNTPRAHTVE  
EVNTDEDQKEESNGLNEDILDNPNCDAIANTLNEETLLDQSFKNVQQQLDATSRNITEA  
R

>sp|Q8TB96|TIP\_HUMAN T-cell immunomodulatory protein OS=Homo sapiens GN=ITFG1 PE=1 SV=1



MAAAGRLPSSWALFSPLLAGLALLGVGPVPARALHNVTAELFGAEAWGTAAFGDLNSDK  
QTDLFVLRERNDLIVFLADQNAPYFKPKVKVSFKNHSALITSVVPGDYDGSQMDVLLTY  
LPKNYAKSELGAVIFWGQNQTLDPNNMTILNRTFQDEPLIMDFNGDLIPDIFGITNESNQ  
PQILLGGNLSWHPALTTTSKMRIPHSFAFIDLTEDFTADLFLTTLNATTSTFQFEIWENL  
DGNFSVSTILEKPQNMVVGSAFADFDDGDMHLLPGCEDKNCQKSTIYLVRSQMKQW  
VPVLQDFSNKGTLWGFVPFVDEQQPTEIPIPIITLHIGDYNMDGYPDALVILKNTSGSNQQ  
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>sp|Q9UHF0|TKNK\_HUMAN Tachykinin-3 OS=Homo sapiens GN=TAC3 PE=1 SV=1

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E

>sp|P51854|TKTL1\_HUMAN Transketolase-like protein 1 OS=Homo sapiens GN=TKTL1 PE=1 SV=2

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>sp|Q9H0I9|TKTL2\_HUMAN Transketolase-like protein 2 OS=Homo sapiens GN=TKTL2 PE=2 SV=1

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>sp|Q96I45|TM141\_HUMAN Transmembrane protein 141 OS=Homo sapiens GN=TMEM141 PE=1 SV=1

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>sp|Q9NUH8|TM14B\_HUMAN Transmembrane protein 14B OS=Homo sapiens GN=TMEM14B PE=3 SV=1

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>sp|Q969M1|TM40L\_HUMAN Mitochondrial import receptor subunit TOM40B OS=Homo sapiens  
GN=TOMM40L PE=1 SV=1

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AKAVFQTQQAFLTWQFDGEYRGDDYTATLTGNPDLIGESVIMVAHFLQSLTHRLVLGG  
ELVYHRRPGEEGAILTLAGKYSVHWVATLNVGSGGAHASYYHRANEQVQVGVEFEANTR  
LQDTTFSFGYHLTLPQANMVFRLVDSNWCVGAVLEKKMPPLPVTALGAFLNHWRNRFH  
CGFSITVG

>sp|Q96B21|TM45B\_HUMAN Transmembrane protein 45B OS=Homo sapiens GN=TMEM45B PE=1 SV=1  
MANFKGHALPGSFLLIIGLCWSVKYPLKYFSHTRKNSPLHYQRLEIVEAAIRTLFSVTG  
ILAEQFVPDGPLHLHYHENHWIKLMNWQHSTMYLFFAVSGIVDMLTYLVSHVPLGVDRLV  
MAVAVFMEGFLFYHHVHNRPPLDQHIHSLLLYALFGGCVSISLEVIFRDHIVLELFRSL  
IILQGTWFQIGFVLFPFGTPEWDQKDDANLMFITMCFCHYLAALSIVAVNYSLVYCL  
LTRMKRHGRGEIIGIQKLN SDDTYQTALLSGSDEE

>sp|Q8N4L2|TM55A\_HUMAN Type 2 phosphatidylinositol 4,5-bisphosphate 4-phosphatase OS=Homo  
sapiens GN=TMEM55A PE=1 SV=1

MAADGVDESPLLSASHSGNVTPTAPPYLQESSPRAELPPPYTAIASPDASGIPVINCRV  
CQSLINLDGKLHQHVVKCTVCNEATPIKNPPTGKKYVRCPCNCLLICKDTSRRIGCPRPN  
CRRILNLPVMLISEEQPAQPALPIQPEGTRVVCGHCGNTFLWMELRFNTLAKCPHCKKI  
SSVGSALPRRRCCAYITIGMICIFIGVGLTVGTPDFARRFRATYVSWAIAYLLGLICLIR  
ACYWGAIRVSYPEHSFA

>sp|Q86T03|TM55B\_HUMAN Type 1 phosphatidylinositol 4,5-bisphosphate 4-phosphatase OS=Homo  
sapiens GN=TMEM55B PE=1 SV=1

MAADGERSPLLEPIDGGAGGNLVGPGSGAGPGGLTPSAPPYGAAPPPFEGHPAVL  
PGEDPPPYSPLTSPDSGSAPMITCRVCQSLINVEGKMHQHVVKCGVCNEATPIKNAPPGK  
KYVRCPCNCLLICKVTSQRIACPRPYCKRIINLGPVHPGPLSPEPQPMGVRVICGHCKNT  
FLWTEFTDRTLARCPCRCVKVSSIGRRYPKRCICCFLLGLLAVTATGLAFGTWKHARRY  
GGIYAAWAFVILLAVLCLGRALYWACMKVSHPVQNFS

>sp|Q9UK28|TM59L\_HUMAN Transmembrane protein 59-like OS=Homo sapiens GN=TMEM59L PE=2 SV=1

MAAVALMPPPLLLLLLLASPPAASAPSDPFPQLGDTQNCQLRCRDRDLGPQPSQAGL  
EGASESPYDRAVLISACERGCRLFSICRFVARSSKPNATQTECEAACVEAYVKEAEQQAC  
SHGWSQPAEPEPEQKRKVLEAPSGALSLLDLFSTLCNDLVNSAQGFVSSTWTYYLQTDN  
GKVVFVFTQPIVESLGFQGGRLQRVEVTWRGSHPEALEVHVPVGPPLDKVRKAKIRVKS  
SKAKVESEEPQDNDFLSCMSRRSGLPRWILACCLFLSVLVMWLSCSTLVTAPGQHLKFQ  
PLTLEQHKGFMMEPDWPLYPPPSHACEDSLPPYKCLKDLTKL

>sp|Q9BZW5|TM6S1\_HUMAN Transmembrane 6 superfamily member 1 OS=Homo sapiens GN=TM6SF1  
PE=1 SV=2

MSASAATGVFVLSLSAIPVTYVFNLHAAQHDSWTIVGVAALILFLVALLARVLVKRKPPR  
DPLFYVYAVFGFTSVVNLIIGLEQDGIIDGFMTHYLREGEPYLN TAYGHMICYWDGSAHY  
LMYLVMAAIAWEETYRTIGLYWVGSII MSVVVFVPGNIVGKYGTRICPAFFLSIPYTCL  
PVWAGFRIYNQSENYNPSKVIQEAQAKDLLRRPFDLMLVVCLLATGFCLFRGLIALD  
CPSELCLRYTQFQEPYKDPAAYPKIQMLAYMFYSVPYFVTALYGLVVPGCSWMPDITLI



HAGGLAQAFSHIGASLHARTAYVYRVPEEAKILFLALNIAYGVLPQLLAYRCIYKPEFF  
IKTKAEEKVE

>sp|Q9BZW4|TM6S2\_HUMAN Transmembrane 6 superfamily member 2 OS=Homo sapiens GN=TM6SF2  
PE=1 SV=3

MDIPPLAGKIAALSLSALPVSYALNHVSALSHPLWVALMSALILGLLFVAVYSLSHGEVS  
YDPLYAVFAVFAFTSVVDLIIALQEDSYVVGFMFYTKEGEPYLRTAHGVFICYWDGTVH  
YLLYLAMAGAIARRKRYRNFLYWLGSFAMSILVLTGNILGKYSSEIRPAFFLTIPYLL  
VPCWAGMKVFSQPRALTRCTANMVQEEQRKGLLQRPADLALVIYLILAGFFTLFRGLVVL  
DCPTDACFVYIYQYEPYLRDPVAYPKVQMLMYMFYVLPFCGLAAYALTFFPGCSWLPDWAL  
VFAGGIGQAQFSHMGASMLRTPFTYRVPEDTWGCFVVCNLLYALGPHLLAYRCLQWPAF  
FHQPPPSDPLALHKKQH

>sp|Q99805|TM9S2\_HUMAN Transmembrane 9 superfamily member 2 OS=Homo sapiens GN=TM9SF2  
PE=1 SV=1

MSARLPVLSPPRWPRLLLLSLLLLGAVPGPRRSGAFYLPGLAPVNFCDDEEKSDECKAEI  
ELFVNRLDSVESVLPYEYTAFFDFCQASEGKRPSENLGQVLFGERIEPSYKFTFNKKETC  
KLVCTKTYHTEKAEDQKLEFLKKSMLLNQHHWIVDNMPVTWCYDVEDGQRFNCNPGFPI  
GCYITDKGHAKDACVISSDFHERDTFYIFNHVDIKIYYHVETGSMGARLVAAKLEPKSF  
KHTHIDKPDSCGPPMDISNKASGEIKIAYTYSVSFEEDDKIRWASRDYILESMPTHIQ  
WFSIMNSLVIVLFLSGMVAMIMRLTLHKDIARYNQMDSTEDAQEEFGWKL VHGDIFRPPR  
KGMLLSVFLSGTQILIMTFVTLFFACLGFSPANRGALMTCVVVLVLLGTPAGYVAAR  
FYKSFSGGEKWKTNVLLTSFLCPGIVFADFFIMNLILWGEGSSAAIPFGTLVAILALWFCI  
SVPLTFIGAYFGFKNAIEHPVRTNQIPRQIPEQSFYTKPLPGIIMGGILPFGCIFIQLF  
FILNSIWSHQMYMFGLFLVFIILVITCEATILLCYFHLCAEDYHWQWRSFLTSGFTA  
VYFLIYAVHYFFSKLQITGTASTILYFGYTMIMVLIFFLFTGTIGFFACFWFVTKIYSVV  
KVD

>sp|Q9HD45|TM9S3\_HUMAN Transmembrane 9 superfamily member 3 OS=Homo sapiens GN=TM9SF3  
PE=1 SV=2

MRPLPGALGVAAAAALWLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKY  
FSLPFCVGSKKSSISHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAF  
VYAIAKNHYWYQMYIDDLPIWGI VGEADENGEDYYLWYKKLEIGFNGNRIVDVNLTSEK  
VKLVPTNKIQMSYSVWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLV  
SMILMRTLKDYARYSKEEEMDDMDRLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQ  
IFAVSLIVIIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGRRWIKQMF  
IGAFLIPAMVCGTAAFFINFAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNL  
SGQPNFPCRNVAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYV  
YGFMMMLVLVILCIVTVCTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFFK  
TKMYGLFQTSFYFGYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID

>sp|Q8TDI8|TMC1\_HUMAN Transmembrane channel-like protein 1 OS=Homo sapiens GN=TMC1 PE=1  
SV=2

MSPKKVQIKVEEKEDETESSSEEEEEVEDKLPRRESLRPKRKRTRDVINEDDPEPEPED  
EETRKAREKERRRLKRGAEDEEELERLKAELDEKRQIIATVKCKPWKMEKKIEVL  
KEAKKFVSENEGALGKGKGRWF AFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQ  
FGSSVASYFLFLRWYGVNMVLFILTFSLIMLPEYLGWLPYGSLPRKTPRAEEASAANF  
GVLYDFNGLAQSVLFYGYDNKRTIGWMNFRPLSYFLVGIMCIGYSFLVVLKAMTKNI

GDDGGGDDNTFNFSWKVFTSWDYLI GNPETADNKFNSITMNFKEAITEEKAAQVEENVHL  
IRFLRFLANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFC  
PTLFDLFAELEDYHPLIALKWLGRIFALLGNLYVFILALMDEINNKEEEKLVKANIT  
LWEANMIKAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTYYVTIL  
IGDFLRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGI  
NILRLHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPP  
SFDCGPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVILVMVLAIIYYLNATA  
KGQKAANLDLKKKMKMQALENKMNRNKKMAAARAAAAAGRQ

>sp|Q7Z5M5|TMC3\_HUMAN Transmembrane channel-like protein 3 OS=Homo sapiens GN=TMC3 PE=2  
SV=3

MKTSKASQRYRGIRRNASQCYLYQESLLLSNLDDSFSADETGDSNDPEQIFQNIQFQKDL  
MANIRCRPWTMGQKLRLRQAKNIVLKFEGRLTRTRGYQAAGAEWRKFARLACNFVVF  
IPWEMRIKKIESHFSGSVASYFIFLRWLFGINIVLTIMTGAFIVPELIAGQPFGSTARK  
TIPKEQVSSAQDLTVWSLGGYLQYSVLFYGYGRERKIGRAGYRLPLAYFLVGMVAFAY  
SFIILLKKMAKNSRTSLASASNENYTFCWRVFCWDYLIGNPEAAESKTAIVNSIREAI  
LEEQEKKKSKNLAVTICLRIIANILVLLSLAGSIYLIYFVVDRSQKLEQSKKELTLWEKN  
EVSVVVSLVTMIAPSAFDLIAALEMYHPRTTLRFQLARVLVLYLGNLYSLIIALLDKVNS  
MSIEEMATKNNTSHWIDSTTFATRTAPEEEKWSTSRPGMGLRRNNTWALEETSISAYTM  
PLIKANKTSLHTQSPQDQCWETYVGQEMLKLSIIDMLFTVASILLIDFFRGLFVRYLSDY  
WCWDLESKFPEYGEFKIAENVLHLVYNQGMIVMGAFFSPCLPAFNVKLIGLMYLRSWAV  
LTCNVPHQQVFRASRSNNFYLAMLLFMLFLCMLPTIFAIVRYKPSLNCGPFSGQEKIYDI  
VSETIEKDFPVWFGSVVGHISSPVILPAVLLLFMLIYYLQSIARSLKLSNHQLKMQIQN  
ARSEDKKKVAQMVEARIQTQEESTKKLPNDSDLTSQLSSAHSGTPQNNGNVAHFDGSSK  
SGRIETVAQSMPQSPRPGRAPSSPLPGVPKSRLEHETNRYLHGLCASTSDLHRNRSRTP  
MTFTTHIEDVHSEPLFRKDFQINPPHRGPQASTLLAQGPRPHAPRYVINECDSYKKKH  
LNVWPERHFKIDASGDIVELYPRNVRQYASRVPRQPPSPQLSEEEETPSRDWIKRSLPP  
RSLIDLRRAPHFYIGERSESQTRDPEHQGRVHYKSWNEFEGHLERPAYVPRKPRSRNFQ  
YPQPPLKPRGKPRFEPSSLTESDSVSAASSDQQNSSADQYLQVTHSQGRFPRSVGQPSRR  
KAKSGQELTVDLDDLICSDV

>sp|Q7Z404|TMC4\_HUMAN Transmembrane channel-like protein 4 OS=Homo sapiens GN=TMC4 PE=2  
SV=3

MEENPTLESEAWGSSRGWLAPREARGAPCSSPGPSLSSVLNELPSAATLRYRDPGVLPWG  
ALEEEEEEDGGRSRKAFTVETQTELDPHPSRELWPQMARRAHRQRNASRDQVVYGSGBK  
TDRWARLLRRSKEKTKEGLRSLQPWAWTLKRIGGQFGAGTESYFSLRFLLLNLVLA  
MACMTLLPTWLGGAPPGPPGPDISSPCGSYNPHSQGLVTFATQLFNLLSGEGYLEWSPLF  
YGFYPPRPRLAVTYLCWAFVGLICLLLILHRSVSLKQTLAESEALTSYSHRVFSAWD  
FGLCGDVHVRRLRQRIILYELKVELEETVVRRAAVRTLGGQARVWLVRVLLNLLVALLG  
AAFYGVYWATGCTVELQEMPLVQELPLLKLVNYLPSIFIAGVNFVLPVPFKLIAPLEGY  
TRSRQIVFILLRTVFLRLASLVLLFSLWNQITCGGDSEAEDCKTCGYNYKQLPCWETVL  
GQEMYKLLLFDLLTVLAVALLIQFPRKLLCGLCPGALGRLAGTQEFQVPDEVGLIYAQT  
VVWVGSFFCPLLPLLNTVKFLLLFYLLKLTFTSTCPAARTFRASAANFFFLVLLGLA  
ISSVPLLYSIFLIPPSKLCGPRFGQSSIWAQIPESISSLPETTQNFLLFGLGTQAFVPLL  
LISSILMAYTVALANSYGRLLSELKRQRQTEAQNKVFLARRAVALTSTKPAL

>sp|Q7Z402|TMC7\_HUMAN Transmembrane channel-like protein 7 OS=Homo sapiens GN=TMC7 PE=1 SV=1

MSESSGSALQGRPSRQPAVHPENLSLDSSCFSSPPVNFLQELPSYRSIARRRTTVHSRD  
KQSGTLLKPTDSYSSQLEDRIAENLSSHSLRNYALNISEKRRLRDIQETQMKYLSEWDQW  
KRYSSKSWKRFLEKAREMTTHLELWREDIRSIEGKFGTGIQSYFSFLRFLVLLNLVIFLI  
IFMLVLLPVLLTKYKITNSSFVLIPFKDMDKQCTVYPVSSSGLIYFYSYIIDLLSGTGFL  
EETSLFYGHYTIDGVKFNFTYDLPLAYLLSTIASLALSLLWIVKRSVEGFKINLIRSEE  
HFQSYCNKIFAGWDFCITNRSMADLKHSSLRYELRADLEEERMRQKIAERTSEETIRIYS  
LRLFLNCIVLAVLGACFYAIYVATVFSQEHMKKEIDKMVFGENLFILYLPISIVITLANFI  
TPMIFAKIIRYEDYSPGFEIRLTILRCVFMRLATICVLVFTLGSKITSCDDDTCDLCGYN  
QKLYPCWETQVGQEMYKLMIFDFIIILAVTLFVDFPRKLLVTYCSSCKLIQCWQQEFAI  
PDNVLGIVYGQTIWIGAFFSPLLPAIATLKFIIIFYVKEWSLLYTCRPSRPPFRASNSN  
FFFLVLLIGLCLAIPLTISISRIPSSKACGPFTNFNTTWEVIPKTVSTFPSSLQSFH  
GVTSEAFVPPFMIICLIMFYFIALAGAHKRVIQLREQLSLESRDKCYLIQKLTEAQRD  
MRN

>sp|Q9ULS5|TMCC3\_HUMAN Transmembrane and coiled-coil domains protein 3 OS=Homo sapiens GN=TMCC3 PE=2 SV=3

MPGSDTALTVDRTYSPGRHHRCKSRVERHDMNTLSLPLNIRRGSDTNLNFDPDGLD  
FHKVKLTADSLKQKILKVTEQIKIEQTSRDGNVAEYLKLVNADKQAGRIKQVFEKKNQ  
KSAHSIAQLQKKLEQYHRKLREIEQNGASRSSKDISKDHLKDIHRSLKDAHVKSRTPHC  
MESSKSGMPGVSLTPPVFVFNKSREFANLIRNKFGSADNIAHLKNSLEEFREASARAYG  
GSATIVNPKYGSDDCSSGTSGSADSNQNSFGAGGASTLDSQGLAVILEELREIKDT  
QAQLAEDIEALKVQFKREYGFISQTLQEERYRYERLEDQLHDLTDLHQHETANLKQELAS  
IEEKVAYQAYERSRDIQEALESCQTRISKLELHQEQQALQTDTVNAKVLLGRCINVILA  
FMTVILVCVSTIAKFVSPMMKSRCILGTFFAVTLLAIFCKNWDHILCAIERMIIPR

>sp|Q5TGY1|TMC04\_HUMAN Transmembrane and coiled-coil domain-containing protein 4 OS=Homo sapiens GN=TMC04 PE=2 SV=1

MAMWNRPCQRLPQQPLVAEPTAEGEPLPTGRELTEANRFAYAALCGISLSQLFPEPEHS  
SFCTEFMAGLVQWLELSEAVLPTMTAFASGLGGEGADVQVQILLKDPILKDDPTVITQDL  
LSFSLKDGHYDARARVLVCHMTSLLQVPLEELDVLEEMFLESKEIKEEESEMAEASRKK  
KENRRKWKRYLLIGLATVGGGTIVIGVTGGLAAPLVAAGAATIIGSAGAAALGSAAGIAIM  
TSLFGAAGAGLTGYKMKRVGAIEEFTFLPLTEGRQLHITIAVTGWLASGKYRTFSAPWA  
ALAHSREQYCLAWKAYLMELGNALETILSGLANMVAQEALKYTVLSGIVAALTWPASLL  
SVANVIDNPWGVCLHRSAEVGKHLAHILLSRQQGRRPVTLIGFSLGARVIYFCLQEMAQE  
KDCQGIIEDVILLGAPVEGEAKHWEFPRKVVSGRIINGYCRGDWLLSFVYRTSSVQLRVA  
GLQPVLLQDRRVENVDLTSVVSGLHDYAKQMDAILKAVGIRTKPGWDEKGLLLAPGCLPS  
EEPRQAAAAASSGETPHQVGQTQGPISGDTSKLAMSTDPSQAQVPVGLDQSEGASLPAAA  
SPERPPICSHGMDPNPLGCPDCACTQGPSTGLD

>sp|Q9UHN6|TMEM2\_HUMAN Transmembrane protein 2 OS=Homo sapiens GN=TMEM2 PE=1 SV=1

MYATDSRGHSPAFLQPQNGNSRHPSGYVPGKVPLRPPPPPKSQASAKFTSIRREDRATF  
AFSPREEQQAQRESQKQKRHKNTFICFAITSFSFFIALAILGISSKYAPDENCQNPRL  
RNWDPGQDSAKQVVIKEGDMRLTSDATVHSIVIQDGGLLVFGDNKDGSRNITLRTHYIL  
IQDGGALHIGAECRYKSKATITLYGKSDEGESMPTFGKKFIGVEAGGTLELHGARKASW  
TLLARTLNSSGLPFGSYTFEKDFSRLNVRVIDQDTAKILESERFDTHEYRNESRRLQEF

LRFQDPGRIVAIIVGDSAAKSLQGTIQMIQERLGSELIQGLGYRQAWALVGVIDGGSTS  
CNESVRNYENHSSGGKALAQREFYTVDGQKFSVTAYSEWIEGVSLSGFRVEVDGVKLN  
LDDVSSWKPGDQIVVASTDYSMYQAEFTLLPCSECSHFQVKVETPQFLHMG E I IDGVD  
MRAEVGILTRNIVIQGEVEDSCYAENQCQFFDYDTFGGHIMMKNFTSVHLSYVELKHMG  
QQQMGRYPVHFHLCGDVDYKGGYRHATFVDGLSIHHSFSRCITVHGTNGLLIKDTIGFDT  
LGHCFFLEDGIEQRNTLFHNLGLLTKPGTLLPTDRNNSMCTTMRDKVFGNYIPVPATDCM  
AVSTFWIAHPNNLINNAAAGSQDAGIWYLFHKEPTGESSGLQLLAKPELTPLGIFYNNR  
VHSNFKAGLFIDKGVKTNSSAADPREYLCLDNSARFRPHQDANPEKPRVAALIDRLIAF  
KNNDNGAWVRGGDIIVQNSAFADNGIGLTFASDGSFSPDEGSSQEVSESLFVGESRNYGF  
QGGQNKYVGTGGIDQKPRTLPRNRTFPIRGFQIYDGP IHLTRSTFKKYVPTPDYSSAIG  
FLMKNWQITPRNNISLVKFGPHVSLNVFFGKPGPWFEDCEMDGDKNSIFHDIDGSVTGY  
KDAYVGRMDNYLIRHPCSVNVSKWNAVICSGTYAQVYVQTWSTQNLSMTITRDEYPSNPM  
VLRGINQKAAFPQYQPVVMLEKGYTIHWNGPAPRTTFLYLVNFKNKWIRVGLCYPSNTS  
FQVTFGYLQRQNGSLSKIEEYEPVHSLEELQRKQSERKFYFDSSTGLFLYLKAKSHRHG  
HSYCSSQGCERVKIQAATDSKDISNCMAKAYPQYYRKPSVVKRMPAMLTGLCQCGCTRQV  
VFTSDPHKSYLPVQFQSPDKAETQRGDPSVISVNGTDFTRSAGVLLLVVDPCSVPRFLT  
EKTVPFLADVSRIEEYLKTGIPPRSVLLSTRGEIKQLNISHLLVPLGLAKPAHLYDKGS  
TIFLGFSGNFKPSWTKLFTSPAGQGLGVLEQFIPLQLDEYGCPRATTVRRRDLELLKQAS  
KAH

>sp|Q96HH6|TMM19\_HUMAN Transmembrane protein 19 OS=Homo sapiens GN=TMEM19 PE=1 SV=1  
MTDLNDNICKRYIKMITNIVILSLIICISLAFWIISMTASTYYGNLRPISPWRWLFSSVV  
PVLIVSNGLKKKSLDHSGALGGLVVGFIILTIANFSFFTSLMFFLSSSKLTKWKGEVKKR  
LDSEYKEGGQRNWVQVFCNGAVPTELALLYMIENGPG EIPVDFSKQYSASWMCLSLAAL  
ACSAGDTWASEVGPVLSKSSPRLITWEKVPVGTNGGVTVVGLVSSLLGGTFVGIAYFLT  
QLIFVNDLDISAPQWPIIAFGGLAGLLGSIVDSYLGATMQYTGLDESTGMVVNSPTNKAR  
HIAGKPILDNNAVNLFSSVLIALLPTAAWGFWPRG

>sp|Q86YD3|TMM25\_HUMAN Transmembrane protein 25 OS=Homo sapiens GN=TMEM25 PE=1 SV=1  
MALPPGPAALRHTLLLLPALLSSGWGELEPQIDGQTWAERALRENERHAFTCRVAGGPGT  
PRLAWYLDGQLQEASTSRLLSVGGEAFSGGTSTFTVTAHRAQHELNCSLQDPRSGRSANA  
SVILNVQFKPEIAQVGAKYQEAQGPGLLVVLFALVRANPPANVTWIDQDGPVTVNTSDFL  
VLDAQNYPWL TNHTVQLQLRSLAHNLSVVATNDVGVTASLPAPGLLATRVEVPLLGI VV  
AAGLALGTLVGFSTLVACLVRKEKTKGPSRHPSLISSDSNNLKLNNVRLPRENMSLPS  
NLQLNDLTPDSRAVKPADRQMAQNNSRPELLDPEPGGLTSQGFIRLPVLGYIYRVSSVS  
SDEIWL

>sp|Q5JXX7|TMM31\_HUMAN Transmembrane protein 31 OS=Homo sapiens GN=TMEM31 PE=1 SV=1  
MRLTEKSEGEQQLKPNNSNAPNEDQEE EIQQSEQHTPARQRTQRADTQPSRCRLPSRRTP  
TTSSDR TINLLEVLWPTEWIFNPYRLPALFELYPEFLLVFKEAFHDISHCLKAQMEKIG  
LPIILHLFALSTLYFYKFFLPTILSLSFFILLVLLLLLFIIVFILIFF

>sp|Q8WWA1|TMM40\_HUMAN Transmembrane protein 40 OS=Homo sapiens GN=TMEM40 PE=1 SV=2  
METSASSSQPDNSQVHRETEDVDYGETDFHKQDGKAGLFSQEYERNKSSSSSSSSSS  
SSSSSSSSSESNDDEDQQPRATGKHRRSLGAGYPHGNGSPGPGHGEPDLKDELQLYGDA  
PGEVVP SGESGLRRRGSDPASGEVEASQLRRLNIKKDDEFFHFVLLCFAIGALLVCYHYY  
ADWFMSLGVLLTFASLETVG IYFGLVYRIHSVLQGFIPLFQKFRLTGFRKTD

>sp|Q969K7|TMM54\_HUMAN Transmembrane protein 54 OS=Homo sapiens GN=TMEM54 PE=2 SV=1

MCLRLGGLSVGDFRKVLMKTGLVLVVLGHVSFITAALFHGTVLRYVGTPQDAVALQYCVV  
NILSVTSAIVVITSGIAAIVLSRYLPSTPLRWTVFSSSVACALLSLTCALGLLASIAMTF  
ATQ GKALLAACTFGSSELLALAPDCFPDPTRISYSSSLCLWGIALVLCVAENVFAVRCAQL  
THQLLELRPWWGKSSHHMMRENPELVEGRDLLSCTSSEPLTL

>sp|Q9BXS4|TMM59\_HUMAN Transmembrane protein 59 OS=Homo sapiens GN=TMEM59 PE=1 SV=1

MAAPKGSLLWVRTQLGLPPLLLLTALAGSGTASAEAFDSVLGDTASCHRAQLTYPLHT  
YPKEEELYACQRGCRFSICQFVDDGIDLNRTKLECESACTEAYSQSDEQYACHLGCQNQ  
LPFAELRQEQMLSLMPKMHLFPLTLVRSFWSMDMSAQSFITSSWTFYLAADDGKIVIF  
QSKPEIQYAPHLEQEPTNLRESSLSKMSYLMRNSQAHRNFLEDGESDGLRCLSLNSGW  
ILTTTLVLSVMVLLWICCATVATAVEQYVPSEKLSIYGDLEFMNEQKLNRYPASSLVVVR  
SKTEDHEEAGPLPTKVNLAHSEI

>sp|Q6YI46|TMM64\_HUMAN Transmembrane protein 64 OS=Homo sapiens GN=TMEM64 PE=2 SV=2

MRSPPGILLQALPRLLQHAALPGLAELPARWALPRGAGDGPADRLPRGGGASAAAAAAA  
ASGALLGAYLERHGPPEASELPEPGGALAGPGSGGGGVVVGVAEVRNWRCCCLGSTCWC  
RSLVLVCVLAALCFASLALVRRYLHHLLLWVESLDSLLGVLLFVVGFI VVSFPCGWGYIV  
LNVAAGYLYGFVLGMGLMMVGLIGTFIAHVCKRLLTAWVAARIQSSEKLSAVIRVVEG  
GSGLKVVALARLTPIPFGLQNAVFSITDLSLPNYLMASSVGLLPTQLLSYLGTTLRME  
DVIAEQSVSGYFVFLQIIISIGLMFYVVHRAQVELNAAIVACEMELKSSLVKGNQPNTS  
GSSFYNKRTLTFSGGGINVV

>sp|O95271|TNKS1\_HUMAN Tankyrase-1 OS=Homo sapiens GN=TNKS PE=1 SV=2

MAASRRSQHHHHHQQQLQPAPGASAPPPPPPLSPGLAPGTPASPTASGLAPFASPR  
HGLALPEGDGSRDPPDRPRSPDVGTSCTTSTICTVAAAPVVPVAVSTSSAAGVAPNP  
AGSGSNNSPSSSSPTSSSSSSPSPGSSLAESPEAAGVSSTAPLPGAAGPGTGVPVAVS  
GALRELLEACRNGDVS RVKRLVDAANVNAKDMAGRKSSPLHFAAGFGRKDVVEHLLQMGA  
NVHARDGGLIPLHNACSFGHAENVSLLLCQGADPNARDNWNYP LHEAAIKGKIDVCIV  
LLQHGADPNIRNTDGKSALDLADPSAKAVLTGEYKKDELLEAARSGNEEKL MALLTPLNV  
NCHASDGRKSTPLHLAAGYNRVRI VQLLLQHGADVHAKDKGLVPLHNACSYGHYEVEL  
LLKHGACVNAMD L WQFTPLHEAASKNRVEVCSLLL SHGADPTLVNCHGKSAVDMAPTPEL  
RERLT YEFKGHSL LQAAREADLAKVKKTLALEI INFKQPQSHETALHCAVASLHPKRKQV  
TELLLRKGANVNEKNKDFMTPLHVA AERAHNDVMEVLHKHGAKMNALDTLGQTALHRAAL  
AGHLQTCRLLLSYSDPSIISLQGF TAAQMGNEAVQQILSESTPIRTSDVDYRLL EASKA  
GDLET VKQLCSSQNVNCRDLEGRHSTPLHFAAGYNRVSVVEYLLHHGADVHAKDKGGLVP  
LHNACSYGHYEVAELLVRHGASVNVADLWKFTPLHEAAKGKYEICKLLLKHGADPTKKN  
RDGNTPLDLVKEGDTDIQDLLRGDAALLDAAKKGCLARVQKLCTPENINCRDTQGRNSTP  
LHLAAGYNNLEVAEYLL EHGADVNAQDKGGLIPLHNAASYGHVDIAALLIKYNTCVNATD  
KWAFTPLHEAAQKGRTQLCALLAHGADPTMKNQEGQTPDLATADDIRALLIDAMPPEA  
LPTCFKPQATVVSASLISPASTPSCLSAASSIDNLTGPLAELAVGGASNAGDGAAGTERK  
EGEVAGLDMNISQFLKSLGLEHLRDI FETEQITLDVLADMGHEELKEIGINAYGHRHKL I  
KGVERRLLGGQGTNPYLTFHCVNQGTILLDLAPEDKEYQSVEEEMQSTIREHRDGGNAGG  
IFNRYNVIRIQKVVNKKLRERFCHRQKEVSEENHNHNHNERMLFHGSPFINAI IHKGFDER  
HAYIGMFGAGIYFAENSSKSNQVYVGIGGGTGCPTHKDRSCYICHRQMLFCRVTLGKSF  
LQFSTMKMAHAPPGHHSVIGRPSVNGLAYAEVVIYRGEQAYPEYLITYQIMKPEAPSQTA  
TAAEQKT

>sp|P63316|TNNC1\_HUMAN Troponin C, slow skeletal and cardiac muscles OS=Homo sapiens  
GN=TNNC1 PE=1 SV=1

MDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEM  
IDEVDEDGSGTVDFDEFLVMMVRCKDDSKGKSEEELSDLFRMFKNADGYIDLDELKIM  
LQATGETITEDDIEELMKDGDKNNDGRIDYDEFLEFMKGVE

>sp|Q9Y5L0|TNPO3\_HUMAN Transportin-3 OS=Homo sapiens GN=TNPO3 PE=1 SV=3

MEGAKPTLQLVYQAVQALYHDPDPGKERASFWLGELQRSVHAWAISDQLLQIRQDVESC  
YFAAQTMKMKIQTSFYELPTDSHASLRDSSLTHIQNLKDLSPVIVTQLALAIADLALQMP  
SWKGCVQTLVEKYSNDVTSPLFLEILTTLPEEVHSRSLRIGANRRTEIIEDLAFYSSTV  
VSLLMTCVEKAGTDEKMLMKVFRCLGSWFNLGVLDNSFMANNKLLALLFEVLQQDKTSSN  
LHEAASDCVCSALYAIENVETNLPLAMQLFQGVLTLETAYHMAVARELDKVLNYCRIFT  
ELCETFLEKIVCTPGQGLDLRTLLELLICAGHPQYEVVEISFNFWYRLGEHLYKTNDV  
IHGIFKAYIQRLHLARHCQLEPDHEGVPEETDDFGEFRMRVSDLVKDLIFLIGSMECF  
AQLYSTLKEGNPPWEVTEAVLFIMAAIAKSVDPENNTLVEVLEGVVRLPETVHTAVRYT  
SIELVGEMSEVVDNRNPQFLDPVLGYLMKGLCEKPLASAAKAIHNICSVCRDHMAQHFNG  
LLEIARSLDSFLLSPEAAVGLLKGTALVLARLPLDKITECLSELCSVQVMALKKLLSQEP  
SNGISSDPTVFLDRLAVIFRHTNPVENGQTHPCQKVIQEIWPVLSETLNKHRADNRIVE  
RCCRCLRAVRCVGKGSALLQPLVTQMVNVYHVHQHSCFLYLGSILVDEYGMEEGCRQG  
LLDMLQALCIPTFQLLEQQNGLQNHPDVTDDLFRLATRFIQRSPVTLLRSQVVIPILQWA  
IASTLTDHRDANCVMRFLRDLHTGVANDHEEDFELRKELIGQVMNQLGQQQLVSQLLHT  
CCFCLPPYTLPDVAEVLWEIMQVDRPTFCRWLENSLKGLPKETTVGAVTVTHKQLTDFHK  
QVTSAAECKQVCWALRDFTRLFR

>sp|Q9NP84|TNR12\_HUMAN Tumor necrosis factor receptor superfamily member 12A OS=Homo sapiens GN=TNFRSF12A PE=1 SV=1

MARGSLRRLRLVLGLWLALLRSVAGEQAPGTAPCSRGSWSADLDKCMDCASCRRPH  
SDFCLGCAAAPPAPFRLLWPILGGALSLTFVLGLLSGFLVWRRCCRREKFTTPIEETGGE  
GCPAVALIQ

>sp|Q9Y5U5|TNR18\_HUMAN Tumor necrosis factor receptor superfamily member 18 OS=Homo sapiens GN=TNFRSF18 PE=1 SV=1

MAQHGMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLTGTGDARCCRVHTTRCCRD  
YPGEECCSEWDCMCVQPEFHCGDPCCTTCRHHPCPPGQGVQSQGKFSFGQCIDCASGTF  
SGGHEGHCKPWTDCQFGFLTVPFGNKTHNAVCPGSPPAEPLGWLTVVLLAVAAACVLLL  
TSAQLGLHIWQLRSQCMWPRETQLLLEVPPSTEDARSCQFPEEERGERSAEEKGRLGDLW  
V

>sp|P19438|TNR1A\_HUMAN Tumor necrosis factor receptor superfamily member 1A OS=Homo sapiens GN=TNFRSF1A PE=1 SV=1

MGLSTVPDLLLPLVLELLLVGIYPSGVIGLVPHLGDREKRDSVCPQGKYIHPQNNICCT  
KCHKGTLYLNDPCPGGQDTCRECESGSFTASENHLRHCLSCSKCRKEMGQVEISSCTVD  
RDTVCGCRKNQYRHYWSENLFQCFNCSLCLNGTVHLSCQEKQNTVCTCHAGFFLRENECV  
SCSNCKKSLECTKLCLPQIENVKGTEDSGTTVLLPLVIFGLCLLSLLFIGLMYRYQRWK  
SKLYSIVCGKSTPEKEGELEGTTKPLAPNPSFSPTPGFTPTLGFSPVPSSTFTSSSTYT  
PGDCPNFAAPRREVAPPYQGADPILATALASDPINPLQKWEDSAHKPQSLDTPATLY  
AVVENVPPLRWKEFVRRLGLSDHEIDRLELQNGRCLREAQYSMLATWRRRTPRREATLEL  
LGRVLRMDLLGCLEDIEEALCGPAALPPAPSLLR

>sp|075509|TNR21\_HUMAN Tumor necrosis factor receptor superfamily member 21 OS=Homo sapiens GN=TNFRSF21 PE=1 SV=1

MGTSPSSSTALASCRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRA  
TGQVLTCDKCPAGTYVSEHCTNTSLRVCS SCPVGTFRHENGIEKCHDCSQPCWPMIEK  
LPCAALTDRECTCPPGMFQSNATCAPHTVCPVGGVVRKKGTTETEDVRCKQCARGTFSDVP  
SSVMKCKAYTDCLSQLVVIKPGTKETDNVCGTLPFSFSSSTSPSPGTAIFPRPEHMETHE  
VPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTLPNLQVVNH  
QQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKHFDINEHLPWMIVLFLLL  
VLVVI VCSIRKSSRTLKKGPRQDPSAIVEKAGLKKSMTPQTQNKREKWIYYCNGHGIDILK  
LVAAQVGSQWKDIYQFLCNASEREVAAFSNGYTADHERAYAALQHWITIRGPEASLAQLIS  
ALRQHRRNDVVEKIRGLMEDTTQLETDKLALPMSPSPSPSPIPSPNAKLENSALLTVEP  
SPQDKNKGGFFVDESEPLLRCDSSTSSGSSALSRNGSFITKEKKD TVLRQVRLDPCDLQPIF  
DDMLHFLNPEELRVIEEIPQAEDKLDRLFEIIGVKSQEASQTLLDSVYSHLPDLL

>sp|Q93038|TNR25\_HUMAN Tumor necrosis factor receptor superfamily member 25 OS=Homo sapiens GN=TNFRSF25 PE=1 SV=2

MEQRPRGCAAVAAALLLVLLGARAQGGTRSPRCD CAGDFHKKIGLFCCRGCPAGHYLKAP  
CTEPCGNSTCLVCPQDTFLAWENHHNSECARCQACDEQASQVALENC SAVADTRCGCKPG  
WFVECQVSQCVSSSPFYCQPCLDGALHRHTRLLCSRRD TDCGTCLPGFYEHDGCVSCP  
TSTLGSCPERCAAVCGWRQMFVWQVLLAGLVVPLLLGATLTYYRHCWPHKPLVTADEAG  
MEALTPPPATHLSPLDSAHTLLAPPDSSEKICTVQLVGNSWTPGYPETQEALCPQVTSW  
DQLPSRALGPAAAPTLSPEPAGSPAMMLQPGPQLYDVM DAVPARRWKEFVRTLG LREAE  
IEAVEVEIGRFRDQQYEMLKRWRQQPAGLGAVYAALERMGLDGCVEDLRSRLQ RGP

>sp|P25942|TNR5\_HUMAN Tumor necrosis factor receptor superfamily member 5 OS=Homo sapiens GN=CD40 PE=1 SV=1

MVRLPLQCVLWGCLLTAVHPEPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETECL  
PCGESEFLDTWNRETHCHQHXYCDPNLGLRVQQKGTSETDTICTCEE GWHCTSEACESCV  
LHRSCSPGFGVKIATGVSDTICEPCPVGFFSNVSSAFEKCHPWTSCETKDLVVQQAGTN  
KTDVVCGPQDRLRALVVIPIIFGILFAILLVLVFIKKVAKKPTNKAPHPKQEPQEINFPD  
DLPGSNTAAPVQETLHGCQPVTQEDGKESRISVQERQ

>sp|Q9UPQ9|TNR6B\_HUMAN Trinucleotide repeat-containing gene 6B protein OS=Homo sapiens GN=TNRC6B PE=1 SV=4

MREKEQEREEQLMEDKKRKKEDKKKKEATQKVTEQKTKVPEVTKPSLSQPTAASPIGSSP  
SPPVNGGNNAKRVAVPNGQPPSAARYMPREVPPRFRCQQDHKVL LKRGQPPPPSCMLLGG  
GAGPPPCTAPGANPNNAQVTGALLQSESGTAPDSTLGAAASNYANSTWGS GASSNNGTS  
PNPIHIWDKVIIVDGSMEEWPCIASKDTESSENTTDNNSASNPGSEKSTLPGSTTSNKG  
KGSQCQSASSGNECNLGVWKS DPKAKSVQSSNSTTENNNGLGNWRNVSGQDRIGPGSGFS  
NFPNPSNPSAWPALVQEGTSRKGALETDNSNSSAQVSTVGQTSREQQSKMENAGVNFVVS  
GREQAQIHNTDGPKNGTNSLNLSSPNMENKGMFPGMGLGNTSRSTDAPSQSTGDRKTG  
SVGSWGAARGPSGTDTVSGQNSGNGNNGKEREDSWKGASVQKSTGSKNDSWDNNNRST  
GGSWNFGPQDSNDNKWGEKNMTSGVSQGEWKQPTGSDELKIGEWSGPNQPNSSTGAWDN  
QKGHPLPENQGNAQAPCWGRSSSSTGSEVGGQSTGSNHKAGSSDSHNSGRRSYRPTHDC  
QAVLQTLLSRTDLDPRLSNTGWGQTQIKQDTVWDIEEVPRPEGKSDKGTEGWESAATQT  
KNSGGWGDAPSQSNQMKSGWGELSASTEWKDPKNTGGWNDYKNNNSSNWGGRPDEKTPS  
SWNENPSKDQGWGGGRQPNQGWSSGKNGWGEEVDQTKNSNWESSASKPVSGWEGGQNEI

GTWNGGNASLASKGWEDCKRSPAUNETGRQPNSWNKQHQQQQPPQPPPPQPEASGSW  
GGPPPPPPGNVRPSNSSWSSGPQATPKDEEPSGWEESPQSISRKMDIDDGTSAGDPN  
SYNYKNVNLWDKNSQGGPAPREP NLTPMTSKSASVWSKSTPPAPDNGTSAWGEPNESSP  
GWGEMDDTGASTTGWNTPANAPNAMKPNKSMQDGWGESDGPVTGARHPSWEEEDGGV  
WNTTGSQGSASSHNSASWGQGGKKQMKCSLKGNNDSWMNPLAKQFSNMGLLSQTEDNPS  
SKMDLSVGSLSDKKFDVDKRAMNLGDFNDIMRKDRSGFRPPNSKDMGTDSGPYFEKLT  
PFSNQDGLGDEAPCSPFSPSPSYKLSPSGSTLPNVSLGAIGTGLNPQNFAARQGGSHGL  
FGNSTAQSRGLHTPVQPLNSSPSLRAQVPPQFISPVVSASMLKQFPNSGLSPGLFNVGPQ  
LSPQQIAMLSQLPQIPQFQLACQLLLQQQQQQQLLQNQRKISQAVRQQQEQLARMVSAL  
QQQQQQQRQPGMKHSPSHPVGPKPHLDNMVFNALNVGLPDLQTKGPIPGYGSFSSGGM  
DYG MVGGEAGTESRFKQWTSMMEGLPSVATQEANMHKNGAIVAPGKTRGGSPYNQFDII  
PGDTLGHTGPAGDSWLPKASPPTNKIGSKSSNASWPPEFQPGVPWKGIQNIDPESDPYV  
TPGSVLGGTATSPIVDTDHQLLRDNTTGSNSSLNTSLSPGAWPYASDNSFTNVHSTSA  
KFPDYKSTWSPDPIGHNPHTLSNKMWNHISSRNTTPLPRPPGLTNPKPSSPWSSTAPR  
SVRGWGTQDSRLASASTWSDGGSVRPSYWLVLHNLTPQIDGSTLRTICMQHGPLLTFHLN  
LTQGTALIRYSTKQEAAKAQTALHMCVLGNTTILAEFATDDEVSRFLAQAQPPTPAATPS  
APAAGWQSLETGQNSDPVGPALNLFGGSTGLGQWSSSAGSSGADLAGASLWGPPNYSS  
SLWGVPTVEDPHRMGSPAPLLPGDLLGGGSDSI

>sp|Q6UXN7|TOM20\_HUMAN TOMM20-like protein 1 OS=Homo sapiens GN=TOMM20L PE=2 SV=1

MPSVSRLLRLAAAAACGAFAFLGYCIYLNRRKRGDPAFKRRLRDKRRAEPQKAEEQGTQ  
LWDPTKNKKLQELFLQEVRMGELWLSRGEHRMGIQHLGNALLVCEQPRELLKVFKHTLPP  
KVFEMLLHKIPLICQQFEADMNEQDCLEDDPD

>sp|Q8WZ04|TOMT\_HUMAN Transmembrane O-methyltransferase OS=Homo sapiens GN=LRTOMT PE=1  
SV=3

MGTPWRKRKGIAGPGLPDLSCALVLQPRAQVGTMSPAIALAFLPLVVTLLVRYRHYFRLL  
VRTVLLRSLRDCLSGRIEERAFSYVLTHALPGDPGHILTLDHWSSRCEYLSHMGPVKG  
QILMRLVEEKAPACVLELGTTCGYSTLLIARALPPGGRLLTVERDPRTAAVAEKLIRLAG  
FDEH MVELIVGSSEDPVPCRLTQYQLSRADLVLLAHRPCYLRDLQLEAHALLPAGATV  
LADHVLFPGAPRFLQYAKSCGRYRCRLHHTGLPDFPAIKDGIAQLTYAGPG

>sp|Q96KB5|TOPK\_HUMAN Lymphokine-activated killer T-cell-originated protein kinase  
OS=Homo sapiens GN=PBK PE=1 SV=3

MEGISNFKTPSKLSEKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSRGLSHSP  
WAVKKINPICNDHYRSVYQKRLMDEAKILKSLHHPNIVGYRAFTEANDGSLCLAMEYGGE  
KSLNDLIEERYKASQDPFPAAILKVALNMARGLYLHQEKKLLHGDIKSSNVVIKGD  
FE  
TIKICDVGVSLPLDENMTVTDPEACYIGTEPWKPKEAVEENGVITDKADIFAFGLTLWEM  
MTLSIPHINLSNDDDDDEKTFDESDFDEAYYAALGTRPPINMEELDESYQKVIELFSVC  
TNEDPKDRPSAAHIVEALETDV

>sp|Q5JU69|TOR2A\_HUMAN Torsin-2A OS=Homo sapiens GN=TOR2A PE=2 SV=1

MAAATRGCRPWGSLGLGLVSA AAAAWDLASLRCTLGAFCECDFRPDLPGLECDLAQHL  
AGQHLAKALVVKALAFVRDPATKPLVLSLHGWGTGKSYVSSLLAHYLFQGGLRSPRV  
HHFSPVLHFPHPSHIERYKKDLKSWVQGNLTACGRSLFLFDEMCKMPGLMEVLRPFLGS  
SWVVGTYNRYKAIFIFISNTGGKQINQVALEAWRSRRDREEILLQELEPVISRVLNPH  
HGFSNSGIMEERLLDAVVPFLPLQRHHVRHCVLNELAQLGLEPRDEVVQAVLDSTTFPE  
DEQLFSSNGCKTVASRIAFFL



>sp|O15405|TOX3\_HUMAN TOX high mobility group box family member 3 OS=Homo sapiens GN=TOX3  
PE=1 SV=2

MDVRFYPAAAGDPASLDFAQCLGYYGYSKFGNNNNYMNMAEANNAFFAASEQTFHTPSLG  
DEEFEIPPITPPPESDPALGMPDVLPLPFQALSDPLPSQGSEFTPQFPPQSLDLPSITISR  
NLVEQDGVLHSSGLHMDQSHTQVSQYRQDPSLIMRSIVHMTDAARSGVMPPAQLTTINQS  
QLSAQLGLNLGGASMPHTSPSPASKSATPSPSSSINEEADAENRAIGEKRAAPDSGKK  
PKTPKKKKKKDPNEPQKPV SAYALFFRDTQAAIKGQNP NATFGEVSKIVASMWDSL GEEQ  
KQVYKRKTEAAKKEYLKALAAYRASLVSKAAESAQAQTIRSVQQT LASTNLTSSLLLNT  
PLSQHGTVSASPQTLQQSLPRSIAPKPLTMRLPMNQIVTSVTIAANMPSNIGAPLISSMG  
TTMVGSA PSTQVSPSVQTQQHQMQLQQQQQQQQQQMQQMQQQLQQHQMHHQQIQQMQQQ  
HFQHHMQHLQQQQQLQQQLINQQQLQQQLQQRLQLQLQHMQHQSQSPRQHSPVASQI  
TSPIPAIGSPQPASQQHQSQIQSQTTQTQVLSQVSIF

>sp|Q93096|TP4A1\_HUMAN Protein tyrosine phosphatase type IVA 1 OS=Homo sapiens GN=PTP4A1  
PE=1 SV=2

MARMNRPAPVEV TYKNMRF LITHNPTNATLNKFIEELKKYGVTTIVRVCEATYD TTLVEK  
EGIHVLDWPFDDGAPPSNQIVDDWLSLVKIKFREEPGCCIAVHCVAGLGRAPVLVALALI  
EGGMKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPKMRLRFKDSNGHRNNCCIQ

>sp|PODKB5|TPBGL\_HUMAN Trophoblast glycoprotein-like OS=Homo sapiens GN=TPBGL PE=3 SV=1

MAPRAGQPGLQGLLLVAAALSQPAAPCPFQCYCFGGPKLLLRCSGAELRQPPRDVPPDA  
RNLTIVGANLTVLRAAFAAGDGDGDQAAGVRLPLLSALRLTHNHIEVVEDGAFDGLPSL  
AALDLSHNPLRALGGGAFRGLPALRSLQLNHALVRGGPALLAALDAALAPLAELRLLGLA  
GNALSRLPPAALRLARLEQLDVRNLALAGLDPDELRALERDGGLPGRLLLLADNPLRCGC  
AARPLLAWL RNATERV PDSRRLCAAPRALDRPLLDLDGARLRCADSGADARGEAEAA  
GPELEASYVFFGLVLALIGLIFLMVLYLNRRGIQRWMRNLRACRDQMEGYHYRYEQDAD  
PRRAPAPAAPAGSRATSPGSGL

>sp|Q13641|TPBG\_HUMAN Trophoblast glycoprotein OS=Homo sapiens GN=TPBG PE=1 SV=1

MPGGCSRGAAGDGRRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPD  
QCPALCECSEAARTVKCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAEL  
AALNLSGSRLDEV RAGAFEHLPSLRQLDL SHNPLADLSPFAFSGSNASVSAPSPLVELIL  
NHIVPPEDERQNRSFEGMVVAALLAGRALQGLRRLELASNHFLYLPRDVLAQLPSLRHLD  
LSNNSLVSLTYVSFRNLTHLESLHLEDNALKVLHNGTLAELQGLPHIRVFLDNNPWV CDC  
HMADMVTWLKETEVVQ GKDR LTCAYPEKMNRNVLLELNSADLDCDPIPPSLQTSYVFLG  
IVLALIGAIFLLVLYLNKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

>sp|P48553|TPC10\_HUMAN Trafficking protein particle complex subunit 10 OS=Homo sapiens  
GN=TRAPPC10 PE=1 SV=2

MDASEEPLPPVIYTMENKPIVTCAGDQNLFTSVYPTLSQQLPREPMEWRRSYGRAPKMIH  
LESNFVQFKEELLPKEGNKALLTFPFLHIYWECCDTEVYKATVKDDLTKWQNVLKAHSS  
VDWLIVIVENDAKKKNKTNILPRTSIVDKIRNDFCNKQSDRCVVLSDPLKDSRTQESWN  
AFLTklrTLLMSFTKNLGKFEDDMRTLREKRTPEGWSFCEYFMVQEELAFVFEMLQQFE  
DALVQYDELDALFSQYVVNFAGDGANWLTFFCQPVKSWNGLILRKPIDMEKRESIQRRE  
ATLLDLRSYLSRQCTLLLFLQRPWEVAQRALELLHNCVQELKLLEVSVP PGALDCWVFL  
SCLEVLQRIEGCCDRAQIDSNIAHTVGLWSYATEKLKSLGYLCGLVSEKGPNS EDLNRTV  
DLLAGLGAERPETANTAQSPYKKLKEALSSVEAFEKHYLDL SHATIEMYTSIGRIRSAKF  
VGKDLAEFYMRKKAPQKAEIYLQGALKNYLAEGWALPITHTRKQLAECQKHLGQIENYLQ

TSSLLASDHHLTEERKHFCEILDFA SQSPD SPGHKIVLPMHSFAQLRDLHFDPSNAV  
HVGGVLCVEITMYSQMPVPVHVEQIVNVHFSIEKNSYRKTAEWLTKHKTSNGIINFPE  
TAPFPVSQNSLPALELYEMFERSPSDNLNTGTICRNVHMLLRQESSSSLEMPSGVAL  
EEGAHVLRCSHVTLEPGANQITFRTQAKEPGTYTLRQLCASVGSVWFVLPHIYPIVQYDV  
YSQEPQLHVEPLADSLLAGIPQRVKFTVTTGHYTIKNGDSLQLSNAEAMLILCQAESRAV  
VYSNTRQSSEAALRIQSSDKVTSISLPVAPAYHVIEFELEVL SLPSAPALGGESDMLGM  
AEPHRKHKDKQRTGRCMVTTDHKVSIDCPWSIYSTVIALTFSVPFRTHSLLSSGTRKYV  
QVCVQNLSELDQLSDSYLVDTGSDTLQLVPLNTQSQQPIYSKQSVFFVWELKWTEEP  
PSLHCRFSVGFSPASEEQLSISLKPYYEFKVENFFTLYNVKAEIFPPSGMEYCRTGSLC  
SLEVLITRLSDLLEVDKDEALTESDEHFSTKLMYEVVDNSSNWAVCGKSCGVISMPVAAR  
ATHRVHMEVMP LFAGYLPLPDVRLF KYLPHHSAHSSQLDADSWIENDSLVDK HGDDQPD  
SSSLKSRG SVHSACSSEHKGLPMPRLQALPAGQVFNSSSGTQVLVIPSQDDHVLEVSVT

>sp|A5PLN9|TPC13\_HUMAN Trafficking protein particle complex subunit 13 OS=Homo sapiens  
GN=TRAPPC13 PE=1 SV=2

MEVNPPKQEHL LALKVMRLTKPTLFTNIPVTCEEKDLPGDLFNQLMRDDPSTVNGAEVLM  
LGEMLTLPQNFNGIFLGETFSSYISVHNSNQVVKDILVKADLQTSSQRLNLSASNAAVA  
ELKPDCCIDDVIHHEVKEIGTHILVCAVSYYTQAGEKMYFRKFFKFQVLKPLDVKTKFYN  
AESDLSSTDEVFLEAQIQNMTPMFMEKVSLEPSIMYNVTELNSVSQAGECVSTFGSR  
AYLQPM DTRQYLCLKPKNEFAEKAGI IKGVTVIGKLDIVWKTNLGERGRLQTSQLQRMA  
PGYGDVRLSLEAIPDTVNLEEFHITCKITNCERTMDLVLEMCNTNSIHWCGISGRQLG  
KLHPSSSLCLALTLSSVQGLQSISGLRLDTFLKRTYEYDDIAQVCVSSAIKVES

>sp|Q8NHX9|TPC2\_HUMAN Two pore calcium channel protein 2 OS=Homo sapiens GN=TPCN2 PE=1  
SV=2

MAEPQAESEPLLGGARGGGGDWPAGLTTYRSIQVGPGAAARWDL CIDQAVVFIEDAIQYR  
SINHRVDASSMWLYRRYYSNVCQRTLSTFTIFLILFLAFIETPSSLTSTADVRYRAAPWEP  
PCGLTESVEVLCLLVFAADLSVKGYLFGWAHFQKNLWLLGYLVVLVSVLDWTVSLSLVC  
HEPLRIRRLLRPFLLQNSSMMKTLKCI RWSLPEMASVGLLLAIHLCLFTMFGMLLFAG  
GKQDDGQDRERLTYFQNLPESLTSLVLLTTANPDVMIPAYSKNRAYAIFFI VFTVIGS  
LFLMNL LTAIIYSQFRGYLMKSLQTSLFRRLGTRAAFEVLSSMVGEGGAFPAVGVPKQ  
NLLQVLQKVQLDSSHQAMMEKVRSYGSVLLSAAEFQKLFNELDRSVVKEHPPRPEYQSP  
FLQSAQFLFGHYFYDYLGNLIALANLVSICVFLVDADVLPAERDDFILGILNCVFIVYY  
LLEMLLKVFALGLRGYLSYPSNVFDGLLTVLLVLEISTLAVYRLPHPGWRPEMVGLLSL  
WDMTRMLNMLIVFRFLRIIPSMKLMVAVSTVLGLVQNMRAFGGILVVVVYVFAIIGINL  
FRGVIVALPGNSS LAPANGSAPCGSFEQLEYWANNFDDFAAALVTLWNL MVVNNWQVFLD  
AYRRYSGPWSKIYFVLWWLVSSVIWVNLFLALILENFLHKWDPRSHLQPLAGTPEATYQM  
TVELLFRDILEEPGEDELTERLSQHPLWLCR

>sp|P31483|TIA1\_HUMAN Nucleolysin TIA-1 isoform p40 OS=Homo sapiens GN=TIA1 PE=1 SV=3

MEDEMPKTLVGNLSRDVTEALILQLFSQIGPCKNCKMIMDTAGNDPYCFVEFHEHRHAA  
AALAAMNGRKIMGKEVKVNWATTPSSQKKDTSSSTVVSTQRSQDHFHVFGDLSPEITTE  
DIKAAFAPFGRISDARVVKDMATGSKSGYGFVSFFNKWDAENAIQQMGQWLGGQRIRTN  
WATRKPPAPKSTYESNTKQLSYDEVVNQSSPSNCTVYCGGVTSGLTEQLMRQTFSPFGQI  
MEIRVFPDKGYSFVRFNHESAHAIVSVNGTTIEGHVVKCYWGKETLDMINPVQQNQI  
GYPQPYGQWGQWYGNAAQQIGQYMPNGWQVPAYGMYGQAWNQQGFNQTSAPWMGPNYGV  
QPPQGQNGSMLPNQPSGYRVAGYETQ

>sp|Q13009|TIAM1\_HUMAN T-lymphoma invasion and metastasis-inducing protein 1 OS=Homo sapiens GN=TIAM1 PE=1 SV=2

MGNAESQHVEHEFYGEKHASLGRKHTSRSLRLSHKTRRTRHASSGKVIHRNSEVSTRSSS  
TPSIPQSLAENGLEPFSQDGTLEDFGSPiWVDRVDMGLRPVSYTDSSVTPSVDSSIVLTA  
ASVQSMPTDEESRLYGDDATYLAEGGRRQHSYTSNGPTFMETASFKKKRSKSADIWREDS  
LEFSLSDLSQEHLTSNEEILGSAEEKDCEEARGMETRASPRQLSTCQRANSLGDLYAQKN  
SGVTANGGPGSKFAGYCRNLVSDIPNLANHKMPAAAAEETPPYSNYNTLPCRKSHCLSEG  
ATNPQISHSNMQGRRAKTTQDVNAGEGSEFADSGIEGATTDLDLLSRRSNATNSSYSPT  
TGRAVFGSDSGSSSTGDAARQGVYENFRRELEMSTTNSESLEEAGSAHSDEQSSGTLSSP  
GQSDILLTAAQGTVRKAGALAVKNFLVHKKNKKVESATRRKWKHYWVSLKGCTLFFYESD  
GRSGIDHNSIPKHAVVENSIVQAVPEHPKKDFVFCLSNLGDALFLQTTSQTELENWIT  
AIHSACATAVARHHHKEDTLRLKSEIKKLEQKIDMDEKMKMGEMQLSSVTDSSKKKKTI  
LDQIFVWEQNLEQFQMDLFRFCYLASLQGGELPNPKRLLAFASRPTKVAMGRLGIFSVS  
SFHALVAARTGETGVRRTQAMSRASAKRRSRFSSWLGLDTSKKKQGRPSINQVFEGGT  
EAVKKSLEGIFDDIVPDGKREKEVVLPNVHQHNPDCDIWHEYFTPSWFCLPNNQPALTV  
VRPGDTARDTLEICKTHQLDHSAYHLRLKFLIENKMQLYVPQPEEDIYELLYKEIEICP  
KVTQSIHIEKSDTAADTYGFSLSVVEEDGIRRLYVNSVKETGLASKKGLKAGDEILEINN  
RAADALNSSMLKDFLSQPSLGLLVRTYPELEEGVELLESPPHRVDGPADLGESPLAFLTS  
NPGHSLCSEQGSSAETAPEETEGPDLESSDETDSKSTEQVAAFCSLHEMNPSDQSPS  
PQDSTGPQLATMRQLSDADKLKVICELLETERTYVKDLNCLMERYLKPLQKETFLTQDE  
LDVLFGNLTEMVEFQVEFLKTLEDGVRLVPDLEKLEKVDQFKKVLFSLGGSFLLYADRFK  
LYSAFCASHTKVPKVLVKAKTDATFAFLDAQNPQQHSSTLESYLKPIQRILKYPLLL  
RELFAITDAESEEHYHLDVAIKTMNKVASHINEMQKIHEEFGAVFDQLIAEQTGEKKEVA  
DLSMGDLHLHTTVIWLNPASLGKWKKEPELAAFVFKTAVVLVYKDGSKQKKLVGSHRL  
SIYEDWDPFRFRHMIPTALQVRALASADAENAVCEIVHVKSESEGRPERVFHLCCSSP  
ESRKDFLKAVHSILRDKHRRQLLKTESLPSSQQYVPFGGKRLCALKGARPAAMSRAVSAPS  
KSLGRRRRRLARNRFTIDSDAVSASSPEKESQQPPGGGDTDRWVEEQFDLAQYEEQDDIK  
ETDILSDDDFCESVKGASVDRDLQERLQATSIQRERGRKTLDSHASRMAQLKKQAALS  
GINGGLESASEEVIWVRREDFAPSRKLNTEI

>sp|Q01085|TIAR\_HUMAN Nucleolysin TIAR OS=Homo sapiens GN=TIAL1 PE=1 SV=1

MMEDDGQPRTLYVGNLSRDVTEVLILQLFSQIGPCKSCKMITEHTSNDPYCFVEFYHRD  
AAAALAAMNGRKILGKEVKVNWATTPSSQKKDTSNHFHVFGDLSPFITTEDIKSAFAPF  
GKISDARVVKDMATGKSKGYGFVSFYNKLDAENAIVHMGGQWLGGQRQIRTNWATRKPPAP  
KSTQENNTKQLRFEDVVNQSSPKNCTVYCGGIASGLTDQLMRQTFSPFGQIMEIRVFPEK  
GYSFVRFTHESSAAHAIVSVNGTTIEGHVVKCYWGKESPDMTKNFQQVDYSQWGWWSQVY  
GNPQQYGYMANGWQVPYGVYGPWNQQGFGVDQSPSAAWMGFGAQPPQGQAPPPVIP  
PPNQAGYGMASYQTQ

>sp|Q13263|TIF1B\_HUMAN Transcription intermediary factor 1-beta OS=Homo sapiens GN=TRIM28 PE=1 SV=5

MAASAAAAASAAASGSPGPGEGSAGGEKRSTAPSAASASASAAASSPAGGGAEALE  
LLEHCGVCRERLRPEREPRLLPCLHSACSACLGAAPAAAANSSGDGAAGDGTVVDCPVC  
KQQCFSKDIVENYFMRDSGSKAATDAQDANQCCTSCEDNAPATSYCVECSEPLCETCVEA  
HQRVKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCDTLTCRDCQLNAHKDH  
QYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVKMAIL

QIMKELNKRGRVLVNDQKVTEGQERLERQHWTMTKIQKHQEHILRFASWALESDNNTA  
LLLSKKLIYFQLHRALKMIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERPSTNSTGP  
APMAPPRAPGPLSKQSGSSQPMVEVQEGYGFSGDDPYSSAEPHVSGVKRSRSGEGEVSG  
LMRKVPRVSLERLDLTDSPVFKVFPGSTTEDYNLIVIERGAAAAATGQPGTAPAG  
TPGAPPLAGMAIVKEEETEAAIGAPPTATEGPETKPVLMALAEPGAEGPRLASPSGSTS  
SGLEVVAPEGTSAPGGGPGTLDSDATICRVCQKPGDLVMCNQCEFCFHLDCPLALQDVP  
GEEWCSLCHVLPDLKEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPL  
HQLATDSTFSLDQPGGTLDLTLIRARLQEKLSPPYSSPQEFADVGRMFKQFNKLTEDKA  
DVQSIIGLQRFETRMNEAFGDTKFSAVLVEPPMSPLPGAGLSSQELSGGPGDGP

>sp|Q6ZKN6|TIFAB\_HUMAN TRAF-interacting protein with FHA domain-containing protein B  
OS=Homo sapiens GN=TIFAB PE=1 SV=2

MEKPLTVLRVSLYHPTLGPFAFANVPRLQHDTSPLLLGRGQDAHLQLQLPRLSRRHLSL  
EPYLEKGSALLAFCLKALSRKGCVVWNGLTLYLEQVPLSTVNRVSFSGIQMLVRVEEGT  
SLEAFVCYFHVSPSPLIYRPEAEETDEWEGISQGPSPGSG

>sp|Q9BVV7|TIM21\_HUMAN Mitochondrial import inner membrane translocase subunit Tim21  
OS=Homo sapiens GN=TIMM21 PE=1 SV=1

MICTFLRAVQYTEKLHRSSAKRLLPYIVLNKACLKTEPSLRCLQYQKTLRPRCILGV  
TQKTIWTQGSPRKAKEDGSKQSVHRSQRGGTAVPTSQKVKEAGRDFTYLIVVLFGISI  
TGGLFYTIFKELFSSSSPSKIYGRALEKCRSHPEVIGVFGESVKGYGEVTRRGRRQHVRF  
TEYVKDGLKHTCVKFIIEGSEPGKQGTVYAQVKENPGSGEYDFRYIFVEIESYPRRTIII  
EDNRSQDD

>sp|O14925|TIM23\_HUMAN Mitochondrial import inner membrane translocase subunit Tim23  
OS=Homo sapiens GN=TIMM23 PE=1 SV=1

MEGGGSGNKTGTGLAGFFGAGGAGYSHADLAGVPLTGMNPLSPYLNVDPRYLVDQDDEF  
ILPTGANKTRGRFELAFFITGGCCMTGAAGFAMNGLRLGLKETQNMASKPRNVQILNMV  
TRQALWANTLGLSALLYSAFGVIEKTRGAEDDLNTVAAGTMTGMLYKCTGGLRGIARG  
GLTGLTLTSLYALYNNWEHMKGSLLQQL

>sp|POCAT3|TLXNB\_HUMAN Putative TLX1 neighbor protein OS=Homo sapiens GN=TLX1NB PE=5 SV=1

MAPLQLLHPWGRRGAWASQHSLLSQEAMGPGEAEPTPWGYLRAEHWGASPSGAPTLPFA  
PDECSLTPGSPPHPLNKQKHHPHPSQTQKDLVPRSPQLEKSRIRLRRTLRLNLGGGRGQR  
GQ

>sp|Q8N9M5|TM102\_HUMAN Transmembrane protein 102 OS=Homo sapiens GN=TMEM102 PE=1 SV=1

MASAVWGSAPWWGPPPPAPARPLTDIDFCSGAQLQELTQLIQELGVQESWSDGPKPGADL  
LRAKDFVFSLLGLVHRRDRFPFQAELLLLGGIREGSLDLGHAPLGPYARGPHYDAGFT  
LLVPMFSLDGTQLDLESCYAQVCLPEMVCGTPIREMWDCLGPPVPGARDSIHRTESE  
ESSKDWQSSVDQPHSYVTEHEAPVSLEKSPSDVSASESPQHDVVDLGSTAPLKTMSDVT  
KAAVESPVPKPSEAREAWPTLCSAQAFAWFFATLAABAESLIPVPGAPRLVHAARHAGFT  
TVLLATPEPPRLLLFDLIPVVSAGWPEGARSHSWAGPLASESASFYLVPGGTERPCA  
SAWQLCFARQELALKARIPAPLLQAHAAAQALLRPLVAGTRAAAPYLLRTLLYWACERLP  
ALYLARPENAGACCLGLDELGRVLEAGTLPHYFLNGRQLRTGDDSAALLGELARLRGDP  
ARALRAAVEEAKVARKGGGLAGVGGGAH

>sp|Q8NE00|TM104\_HUMAN Transmembrane protein 104 OS=Homo sapiens GN=TMEM104 PE=1 SV=2

MAGEITETGELYSSYVLVYMFNLIVGTGALTMPKAFATAGWLVSLLVFLGFMFSVTT  
TFVIEAMAAANAQLHWKRMENLKEEEDDDSSASDSDVLRDNYERAERKRPILSVQRRGS

PNPFEITDRVEMQMASMFFNKVGNLFYFCIIIVLYGDLAIYAAVPFSLMQVTCSATG  
NDSCGVEADTKYNDTDRCWGPLRRVDAYRIYLAIFTLLLPFTFFDVQKTKYLQILTS  
RWMIAFAVMIVLALIRIGHGQGEGHPPLADFSGVRNLFVGVVYFMCQHSLPSLITPVSSK  
RHLTRLVFLDYVLILAFYGLLSFTAIFCFRGDSLMDMYTLNFARCDVVGAAVRFFLGLF  
PVFTISTNFPPIIAVTLRNNWKTLFHREGGTYPVVDRVVFPTITLPPVLVAFCTHDLES  
LVGITGAYAGTGIIQYVIPAFLVYHCRRDTQLAFGCGVSNKHRSPFRHTFWVGFVLLWAFS  
CFIFVTANIILSETKL

>sp|Q8TBZ6|TM10A\_HUMAN tRNA methyltransferase 10 homolog A OS=Homo sapiens GN=TRMT10A  
PE=1 SV=1

MSSEMLPAFIETSNVDKKQGINEDQEESQKPRLGEGCEPISKRMKKLIKQKQWEEQREL  
RKQKRKEKRKRKKLERQCQMEPNSDGHDRKRVRRDVVHSTLRLIIDCSFDHLMVLKDIKK  
LHKQIQRCYAENRRALHPVQFYLTSHGGQLKKNMDENDKGWVNWKDIHIKPEHYSELIKK  
EDLIYLTSDSPNILELDESKAYVIGGLVDHNNHKGTYKQASDYGINHAQLPLGNFVKM  
NSRKVLAVNHVFEIILEYLETRDWQEAFFITLPQRKGAVPTDKACESASHDNQSVRMEEG  
GSDSDSSEEEYSRNELDSPHEEKQDKENHTESTVNSLPH

>sp|Q9HOC3|TM117\_HUMAN Transmembrane protein 117 OS=Homo sapiens GN=TMEM117 PE=2 SV=1

MGKDFRYFYFQHPWSRMIVAYLVIFNFLIFAEDPVSHSQTEANVIVGNCFSFVTNKYPR  
GVGWRILKVLWLLAILTGLIAGKFLFHQRLFGQLRLKMFREDHGSWMTMFFSTILFLF  
IFSHIYNTILLMDGNMAYIIITDYMGI RNESFMKLAAGVTWMGDFVTAWMVTDMMLQDKP  
YPDWGKSARAFWKGNVRITLFWTVLFTLTSVVVLVITTDWISWDKLNRGFLPSDEVSR  
FLASFILVFDLLIVMQDWEFPHMGDQVDVNLPLHTPHMQFKIPFFQKIFKEEYRIHITG  
KWFNYGIIIFVLVILDLNMWKNQIFYKPHEYGQYIGPGQKIYTVKDESLKDLNRTKLSWE  
WRSNHTNPRTNKTYVEGDMFLHSRFIGASLDVKCLAFVPSLIAFVWFGFFIWFGRFLKN  
EPRMENQDKTYTRMKRKSPEHSKDMGITRENTQASVEDPLNDPSLVCIRSDFNEIVYKS  
SHLTSENLSQLNESTSATEADQDPTTSKSTPTN

>sp|Q4V9L6|TM119\_HUMAN Transmembrane protein 119 OS=Homo sapiens GN=TMEM119 PE=1 SV=1

MVSAAAPSLILLILLLLGSPATDARSVPLKATFLEDVAGSGEAGSSASSPSLPPPWTP  
ALSPTSMGPQPITLGGPSPPTNFLDGI VDFFRQYVMLIAVVGSLAFLLMFIVCAAVITRQ  
KQKASAYYPSSFPKKKYVDQSDRAGGPRAFSEVPDRAPDSRPEEALDSSRQLQADILAAT  
QNLKSPTRAALGGDGARMVEGRGAEEEEKGSQEGDQEVQGHGVPVETPEAQEEPCSGVL  
EGAVVAGEGQGELEGSLLLAQEAQGPVGPPESPCACSSVHPSV

>sp|O60235|TM11D\_HUMAN Transmembrane protease serine 11D OS=Homo sapiens GN=TMPRSS11D  
PE=1 SV=1

MYRPARVTSTSRFLNPYVVCFIVVAGVILAVTIALLVYFLAFDQKSYFYRSSFQLLNVE  
YNSQLNSPATQEYRTLSGRIESLITKTFKESNLRNQFIRAHVAKLRQDGSVGRADVVMKF  
QFTRNNNGASMKSRIESVLRQMLNNSGNLEINPSTEITSLTDQAAANWLINCEGAGPDLI  
TLSEQRILGGTEAEEGSPWQVSLRLNNAHHCAGSLINNMWILTAHCFRSNSNPRDWIA  
TSGISTTFPKLRMRVRNLIHNHYKSATHENDIALVRLNSVTFTKDIHSVCLPAATQNI  
PPGSTAYVTGWGAQEYAGHTVPELRQGQVRIISNDVCNAPHSYNGAILSGMLCAGVPQGG  
VDACQGDGGGLVQEDSRRLWFIVGIVSWGDCGLPDKPGVYTRVTAYLDWIRQQTGI

>sp|Q9BTD3|TM121\_HUMAN Transmembrane protein 121 OS=Homo sapiens GN=TMEM121 PE=2 SV=1

MVLPPPDRRHVCLTTLVIMGSMVMDAYLVEQNQGPRKIGVCIIVLVGDVCFLLVLRVVA  
VWVGAEVRTAKRGYAMILWFLYIFVLEIKLYFIFQNYKAARRGAADPVARKALTLLLSVC  
VPGLFLLLVALDRMEYVRTFRKREDLRGLFWVALDLLDLDLMQASLWEPSPRGLPLWAE

GLTFFYCYMLLLVLPVALSEVSMQGEHIAPQKMMLYPVLSLATVNVVAVLARAANMALF  
RDSRVSAIFVGKNVVALATKACTFLEYRRQVRDFPPPALSLELQPPPPQRNSVPPPPPL  
HGPPGRPHMSSPTRDPLDT

>sp|Q8N3G9|TM130\_HUMAN Transmembrane protein 130 OS=Homo sapiens GN=TMEM130 PE=2 SV=1  
MAQAVWSRLGRILWLACLLPWAPAGVAAGLYELNLTTDSPATTGAVVTISASLVAKDNGS  
LALPADAHLRFRHWIHTPLVLTGKMEKGLSSTIRVVGHVPGEFPVSVWVTAADCWMCQPV  
ARGFVVLPITEFLVGDVLTQNTSLPWPSSYLTKTVLKVSFLLHDPSNFLKTALFLYSWD  
FGDGTQMVTEDSVVYNYSIIGTFTVKLKVVAEWEEVEPDATRAVKQKTGDFSASLKLQE  
TLRGIQVLGPTLIQTFQKMTVTNLFLGSPPLTVCWRLKPECLPLEEGECHPVSVASTAYN  
LTHTFRDPGDYCFISIRAENIISKTHQYHKIQVWPSRIQPAVFAFPCATLITVMLAFIMYM  
TLRNATQQKDMVEVADFDFSPMSDKNEPPSGVRCCQMC CGPFLLLETPSEYLEIVRENH  
GLLPPLYKSVKTYTV

>sp|Q86UB9|TM135\_HUMAN Transmembrane protein 135 OS=Homo sapiens GN=TMEM135 PE=2 SV=2  
MAALSKSIPHCYEIGHTWHPSCRVSFLQITGGALEESLKIYAPLYLIAAILRKRKLDYY  
LHKLLPEILQSASFLTANGALYMAFFCILRKILGKFYSWTPGFGAALPASYVAILIERKS  
RRGLLTIYMANLATETLFRMGVARGTITTLRNGEVLLFCITAAMYMFFFRCKDGLKGFTF  
SALRFIVGKEEIPTHSFPEAAAYAKVEQKREQHEEKPGRMNMI GLVRKFVDSICKHGPRH  
RCCKHYEDNCISYCIKGFIRMSVGYLIQCCLRIPSAFRHLFTQPSRLLSLFYNKENFQL  
GAFLGSFVSIYKGTSCFLRWIRNLDELHAI IAGFLAGISM FYKSTTISMYLASKLVET  
MYFKGIEAGKVYPYPHADTIIYSISTAICFQAAVMEVQTLRPSYWKFLRLTKGKFAVMN  
RKVLDFVGTGASKHFQDFIPRLDPRYTTVTPELPTEFS

>sp|Q8NBT3|TM145\_HUMAN Transmembrane protein 145 OS=Homo sapiens GN=TMEM145 PE=2 SV=2  
MEPLRAPALRRLLPPLLLLLLSLPPRARAKYVRGNLSSKEDWVFLTRFCFLSDYGRLD FR  
FRYPEAKCCQNILLYFDDPSQWPVAVYKAGDKDLAKESVIRPENNQVINLTTQYAWSGCQ  
VVSEEGTRYLSCSSGRSFRSGDLQLEYEMVLTNGKSFWRHFSADFGILETDVTFLLI  
FILIFFLSCYFGYLLKGRQLLHTTYKMFMAAAGVEVLSLLFFCIYWGQYATDGIGNESVK  
ILAKLLFSSSFLIFLLMLILLGKGFTVTRGRISHAGSVKLSVYMTLYTLTHVLLIYEAE  
FFDPGQVLYTYESPAGYGLIGLQVAAYVWFCYAVLVSLRHFPEKQPFYVPPFAAYTLWFF  
AVPVMALIANFGIPKWAREKIVNGIQLGIHLAHGVFLIMTRPSAANKNFPYHVRTSQIA  
SAGVPGPGGSQADKAFPHVYGNVTFISDSVPNFTELSIPPPATSPLPRAAPDSGLPL  
FRDLRPPGPLRDL

>sp|Q9BVK8|TM147\_HUMAN Transmembrane protein 147 OS=Homo sapiens GN=TMEM147 PE=1 SV=1  
MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTW  
EGGIYDFIGEFMKASVDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLW  
VGARGIEFDWKYIQMSIDSNISLVHYIVASAQVWMITRYDLYHTFRPAVLLLMFLSVYKA  
FVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVNVHS

>sp|Q8N614|TM156\_HUMAN Transmembrane protein 156 OS=Homo sapiens GN=TMEM156 PE=2 SV=2  
MTKTALLKLFVAIVITFILILPEYFKTPKERTLELSCLEVCLQSNFTYSSLNFSFVTF  
LQPVRETQIIMRIFLNPSNFRNFRTRCQDITGEFKMCSSCLVCESKGNMDFISQEQT SKV  
LIRRGSM EVKANDFHSPCQHFNFSVAPLVDHLEEYNTTCHLKNHTGRSTIMEDEPSKEKS  
INYTCRIMEYPNDCIHISLHLEMDIKNITCSMKITWYILVLLVFIFLIILTIRKILEGQR  
RVQKWQSHRDKPTSVLLRGSDSEKLRLNVQVLSAETTQRLPLDQVQEVLPPIPEL

>sp|Q8WZ59|TM190\_HUMAN Transmembrane protein 190 OS=Homo sapiens GN=TMEM190 PE=1 SV=1  
MLGCGIPALGLLLLLQGSADGNGIQGFFYPWSCEGDIWDRESCGGQAAIDSPNLCLRLRC

CYRNGVCYHQRPDENVRRKHMWALVWTCSGLLLLSCSICLFWWAKRRDVLHMPGFLAGPC  
DMSKSVSLLSKHRGTKKTPSTGSPVVALSKESRDVEGGTEGEGTEEGEETEGEEED

>sp|Q6ZVM7|TM1L2\_HUMAN TOM1-like protein 2 OS=Homo sapiens GN=TOM1L2 PE=1 SV=1

MEFLGNPFSTPVGQCLEKATDGSLSQSEDWTLNMEICDIINETEEGPKDAIRALKKRLNG  
NRNYREVMLALTVLETCVKNCGHRFHILVANRDFIDSVLVKIIISPKNPPTIVQDKVLAL  
IQAWADAFRSSPDLTGVVHIYEELKRKGVEFPMDL DALSPIHTPQRSVPEVDPAATMPR  
SQSQQRTSAGSYSSPPAPYSAPQAPALSVTGPITANSEQIARLRSELDVVRGNTKVMSE  
MLTEMVPGQEDSSDLELLQELNRTCRAQQRIVELISRVSNEEVTEELLHVNDLNNVFL  
RYERFERYRSGRSVQNANSGVLNEVTEDNLIDLGPSPAVVSPMVGNTAPPSLSSQLAG  
LDLGTESVSGTLSSLQCNPRDGFDMFAQTRGNSLAEQRKTVTYEDPQAVGGLASALDNR  
KQSEGIPIVAQPSVMDIEVWLRTDLKGDDLEEGVTSEEDKFLEERAKAAEMVPDLPSP  
PMEAPAPASNPSGRKKPERSEDALFAL

>sp|A6NGA9|TM202\_HUMAN Transmembrane protein 202 OS=Homo sapiens GN=TMEM202 PE=4 SV=1

MERREHLTLTFHSPPEPKIKGNRKYQRPTVPAKKHPSASMSCQRQQQLMDQAHYIIRTL  
GSLCSFSLMLIAMSPLNWVQFLVIKNGLELYAGLWTLNHELCSHTPKPPYYLQYSRA  
FFLISVFTILTGLWLFSSWILNRGSMTTNLDLKVSMLSFISATCLLLCLNLFVAQVHWH  
TRDAMESDLLWTYLNLWCSDFYMFAGIISLLNYLTSRSPACDENVTIPTERSRLGVGP  
VTTVSPAKDEGPRSEMSLSVREKNLPKSGLWW

>sp|Q9BSN7|TM204\_HUMAN Transmembrane protein 204 OS=Homo sapiens GN=TMEM204 PE=2 SV=1

MTVQRLVAAAVLVALVSLILNNVAFTSNWVCQTLEDGRRRSVGLWRSCWLVDTRGGPS  
PGARAGQVDAHDCEALGWGSEAAGFQESRGTVKLQFDMMRACNLVATAALTAGQLTFLG  
LVGLPLLSPDAPCWEEMAAAFQLASFVLVIGLVTFYRIGPYTNLSWSCYLNIGACLLAT  
LAAAMLINILHKREDCMAPRVIVISRSLTARFRRGLDNDYVESPC

>sp|A6NLX4|TM210\_HUMAN Transmembrane protein 210 OS=Homo sapiens GN=TMEM210 PE=3 SV=1

MAPGPWPVSCLRGGPLGLTYLSLLIPAAAGTYCECSLGLSREALIALLVLAGISASCF  
CALVIVAIGVLRAKGETCPRQVDNRLVENFGVQEDLMDLHPVYVESQLMDADLEVSLVPP  
LEDQSLVAIPMEASSEEPPLPPE

>sp|A6NML5|TM212\_HUMAN Transmembrane protein 212 OS=Homo sapiens GN=TMEM212 PE=2 SV=2

MKGLYQAAGRILVTLGILSVCSGVIAFFPVFSYKPFWTGWSVRIACPIWNGALAITTVL  
LLLAYREWTRQRYLGEATFTFVILSIMGCPLHFAIALESALLGPYCFYSFSGIAGTNYLGY  
AVTFPPYPYAKFPLACVDPHYEYHLLTLQALDCLSFLLCTSLTVFIKLSARLIQNGHI  
NMQLPAGNPFPSP

>sp|Q6NUQ4|TM214\_HUMAN Transmembrane protein 214 OS=Homo sapiens GN=TMEM214 PE=1 SV=2

MATKTAGVGRWEVVKGRRPGVGAGAGGRGGGRNRALGEANGVWKYDLTPAIQTTSTLY  
ERGFENIMKRQNKQVPPPAVEPKPGNKKQPKKVATPPNQKQGRFRSLEEALKALDV  
ADLQKELDKSQSVFSGNPSIWLKDLASYLNYKLQAPLSEPTLSQHTHDYPYSLVSRELRG  
IIRGLLAKAAGSLELFFDHCLFTMLQELDKTPGESLHGYRICIQAAILQDKPKIATANLGK  
FLELLRSHQSRPAKCLTIMWALGQAGFANLTEGLKVWLGIMLPVLGIKSLSPFAITYLDR  
LLLMPNLTKGFGMIGPKDFFPLLDFAYPNNSLTPSLQEQLCQLYPRKVLAFGAKPDS  
TLHTYFSPFLSRATPSCPEMKKELLSSLTECLTVDPPLSASVWRQLYPKHLSSQLLEH  
LLSSWEQIPKKVQKSLQETIQSLKLTNQELLRKGSNNQDVVTCDMACKGLLQVQGPRL  
PWTRLLLLLVFAVGFLCHDLRSHSSFQASLTGRLLRSSGFLPASQQACAKLYSYSLQGY  
SWLGETLPLWGHLLTVVRPSQLAWAHTNATVSFLSAHCASHLAWFGDSLTSLSQRLQI  
QLPDSVNQLRLRELPLLFHQNVLLPLWHLLLEALAWAQEHCEACRGEVTWDCMKTQL

SEAVHWTWLCQDITVAFLDWALALISQQ

>sp|Q9PON5|TM216\_HUMAN Transmembrane protein 216 OS=Homo sapiens GN=TMEM216 PE=1 SV=3  
MLPRLKMAPRGKRLSSTPLEILFFLNQWYNATYFLELFIFLYKGVLLPYPTANLVLDV  
VMLLLYLGIIVIRLFFGKGNLCQRKMPLSISVALTFPSAMMASYYLLLQTYVLRLEAIM  
NGILLFFCGSELLLEVLTLAAFSRI

>sp|Q86XT9|TM219\_HUMAN Insulin-like growth factor-binding protein 3 receptor OS=Homo sapiens GN=TMEM219 PE=1 SV=1

MGNCQAGHNLHLCLAHHPPLVCATLILLGLSGLGLGSFLLTHRTGLRSPDIPQDWVSF  
LRSFGQLTLCPRNGTVTGKWRGSHVVGLLTTLNFGDGPDRNKTRTFQATVLGSQMGLKGS  
SAGQLVLITARVTTERTAGTCLYFSAVPGILPSSQPPISCSEEGAGNATLSPRMGEECVS  
VWSHEGLVLTKLLTSEELALCGSRLLVLGSFLLFCGLCCVTAMCFHPRRESHWSRTRL

>sp|Q6QAJ8|TM220\_HUMAN Transmembrane protein 220 OS=Homo sapiens GN=TMEM220 PE=2 SV=1  
MAPALWRACNGLMAAFFALAAALVQVNDPDAEVVVVYTIPAVLTLLVGLNPEVTGNVIWK  
SISAIHILFCTVWAVGLASYLLHRTQQNILHEEEGRELSGLVIITAWIILCHSSSKNPVG  
GRIQLAIAIVITLFPFISWVYIYINKEMRSSWPTHCKTVI

>sp|Q96A57|TM230\_HUMAN Transmembrane protein 230 OS=Homo sapiens GN=TMEM230 PE=1 SV=1  
MMPSTNLATGIPSSKVYSRLSSTDDGYIDLQFKKTPPKIPYKAIALATVFLIGAFIL  
IIGSLLSGYISKGGADRAVPVLIIGILVFLPGFYHLRIAYYASKGYRGYSYDDIPDFDD

>sp|POC7T8|TM253\_HUMAN Transmembrane protein 253 OS=Homo sapiens GN=TMEM253 PE=4 SV=1  
MEDRAGEQEQRHSLRLEKLQHWARHRQSGHLLVLAVSQLWLAVVVVPLAVSVACLNSDC  
HMATALPLGPGASLLTGTVTLELRAPRLWKVRAMMIFNTFNLILGFIVVVVEVMKTAL  
GPAPTASSQHAGLLVLELSAEFTLGGVLVSVHALFLLSQRKPGCCRSQSLHYQELQEGF  
SELEEVPGLENGPTVASTGANERVGQREQTRAALLPP

>sp|Q96GE9|TM261\_HUMAN Transmembrane protein 261 OS=Homo sapiens GN=TMEM261 PE=4 SV=1  
MGSRLSQPFESYITAPPGTAAAPAKPAPPATPGAPTSPAHRLLKTCWSCRVLGSLGLMG  
AGGYVYVWARKPMKMGYPSPWTITQMVIGLSENQGIATWGIVVMADPKGKAYRVV

>sp|Q2M3C6|TM266\_HUMAN Transmembrane protein 266 OS=Homo sapiens GN=TMEM266 PE=2 SV=2  
MAVAPSFNMTNPQAIEGGISEVEIISQQVDEETKSIAPVQLVNFAYRDLPLAAVDLSTA  
GSQLLSNLDEDYQREGSNWLKCCGKRAAVWQVFLLSASLNSFLVACVILVVILLTLELL  
IDIKLLQFSSAFQFAGVIVHWSLVILSVFFSETVLRIVVLGIWDYIENKIEVFDGAVIIL  
SLAPMVASTVANGPRSPWDAISLIIMLRIRVVRVIDAYVLPVKLEMEMVIQQYEKAKVI  
QDEQLERLTQICQEQQFEIRQLRAHLAQDDLDAEEREAALQAPHVLSQPRSRFKVLEAG  
TWDEETAAESVVEELQPSQEATMKDDMNSYISQYYNGPSSDSGVPEPAVCMVTTAAIDIH  
QPNISSDLFSLDMPLKLGGNGTSATSESASRSSVTRAQSDSSQTLGSSMDCSTAREEPSS  
EPGPSPPPLPSQQQVEEATVQDLLSSLEDPCPSQKALDPAPLARPSAGSAQTSPELEH  
RVSLFNQKNQEGFTVFQIRPVIHFQPTVPMLEDKFRSLESKEQKLHRVPEA

>sp|QOVDI3|TM267\_HUMAN Transmembrane protein 267 OS=Homo sapiens GN=TMEM267 PE=2 SV=1  
MASETEKTHALLQTCSTESLISSGLGAFCLVADRLLQFSTIQNDWLRALSDNAVHCVI  
GMWSWAVVTGIKKKTDGFEIILAGFLASVIDVDHFFLAGSMLKAALTLPRRPFLHCSTV  
IPVVVLTCLKFTMHLFKLKDSWCFLPWMLFISWTSHHIRDGIRHGLWICPFGKTSPLPFWL  
YVIITSSLPHICSFVMYLTGTRQMSSKHGVRIDV

>sp|Q9NVV0|TM38B\_HUMAN Trimeric intracellular cation channel type B OS=Homo sapiens  
GN=TMEM38B PE=1 SV=1

MDSPWDELALAFSRTSMFPFFDIAHYLVSVMAVKRQPGAAALAWKNPISSWFTAMLHCFG



GGILSCLLLAEPPLKFLANHTNILLASSIWYITFFCPHDLVSQGYSLPVQLLASGMKEV  
TRTWKIVGGVTHANSYYKNGWIVMIAIGWARGAGGTIIITNFERLVKGDWKPEGDEWLKMS  
YPAKVTLGSVITFQHTQHLAISKHNLMLTYTIFIVATKITMMTTQTSTMTFAPFEDTL  
SWMLFGWQQPFSSCEKKSEAKSPSNGVGLASKPVDVASDNVKKKHTKKNE

>sp|Q96HV5|TM41A\_HUMAN Transmembrane protein 41A OS=Homo sapiens GN=TMEM41A PE=1 SV=1  
MRPLLGLLLVFAGCTFALYLLSTRLPRGRRLGSTEEAGGRSLWFPSDLAELRELSEVLRE  
YRKEHQAYVFLFCGAYLYKQGFAIPGSSFLNVLGALFGPWLGLLLCCVLTSVGATCCY  
LLSSIFGKQLVVSYPDKVALLQRKVEENRNSLFFFLFLRLFPMPNWFNLNSAPILNI  
PIVQFFFSVLIGLIPYNFICVQTGSILSTLTSLDALFSWDTVFKLLAIAMVALIPGTLIK  
KFSQKHLQLNETSTANHIHSRKDT

>sp|O95807|TM50A\_HUMAN Transmembrane protein 50A OS=Homo sapiens GN=TMEM50A PE=1 SV=1  
MSGFLEGLRCSECIDWGEKRNITIASIAAGVLFFTGWWIIIDAAVIYPTMKDFNHSYHACG  
VIATIAFLMINAVSNGQVRGDSYSEGCLGQTGARIWLVFGFMLAFGSLIASMWILFGGYV  
AKEKDIVYPGIAVFFQNAFIFFGGLVFKFGRTEDLWQ

>sp|Q9NS93|TM7S3\_HUMAN Transmembrane 7 superfamily member 3 OS=Homo sapiens GN=TM7SF3  
PE=2 SV=1

MGFLQLLVAVLASEHRVAGAAEVFGNSSEGLIEFSVGKFRYFELNRPFPPEAILHDISS  
NVTFLIFQIHSQYQNTTVSFSPTLLSNSSETGTASGLVFILRPEQSTCTWYLGTSGIQPV  
QNMAILLSYSERDPVPGGCNLEFDLDIDPNIYLEYNFFETTIKFAPANLGYARGVDPPPC  
DAGTDQDSRWRLQYDVYQYFLPENDLTEEMLLKHLQRMVSVPVQKASALKVVTLTANDKT  
SVSFSSLPGQGVYINVIVWDPFLNTSAAYIPAHTYACSFEEGEGSCASLGRVSSKVFFTL  
FALLGFFICFFGHRFWKTEFFIGFIIMGFFFYILITRLTPIKYDVNLILTAVTGSVGGM  
FLVAVWWRFGILSICMLCVGLVLGFLISSVTFFTPLGNLKIFHDDGVFVWTFSCIAILIP  
VVMGCLRILNILTCGVIGSYSVLAIDSYWSTLSYITLNVLKRALNKDFHRAFTNVPF  
QTNDFIILAVWGLAVSGITLQIRRERGRPFPPHPYKLWKQERERRVTNILDPSYHIPP  
LRERLYGRLTQIKGLFQKEQPAGERTPLLL

>sp|Q96K49|TM87B\_HUMAN Transmembrane protein 87B OS=Homo sapiens GN=TMEM87B PE=1 SV=1  
MVAACRSVAGLLPRRRRCFPARAPLLRVALCLLCWTPAAVRAVPELGLWLETVNDKSGPL  
IFRKTMFNSTDIKLSVKSFHCSGPVKFTIVWHLKYHTCHNEHSNLEELFQKHKLSVDEDF  
CHYLKNDNCWTTKNENLDCNSDSQVFPSLNNKELINIRNVSNQERSMDVVARTQKDGFI  
FIVSIKTENTDASWNLNLSLMIGPHGYISASDWPLMIFVMVCIVYILYGILWLTWSAC  
YWKDILRIQFWIAAVIFLGMLEKAVFYSEYNISNTGLSTQGLLIFAEILSAIKRTLARL  
LVIIIVSLGYGIVKPRLGTMHRVIGLGLLYLIFAAVEGVMRVIGGSNHLAVVLDIILAV  
IDSIFVWFIFISLAQTMKTLRLRKNTVKFSLYRHFKNLIFAVLASIVFMGWTTKTFRIA  
KCQSDWMERWDDAFWSFLSLILIVIMFLWRPSANNQRYAFMPLIDDSDEIEEFMVT  
ENLTEGIKLRAKSVSNGTAKPATSENFDLKWVEENIPSSFTDVALPVLVDSDEEIMT  
RSEMAEKMFSSSEKIM

>sp|Q69YG0|TMM42\_HUMAN Transmembrane protein 42 OS=Homo sapiens GN=TMEM42 PE=2 SV=2  
MAERPGPPGAVSATAYPDTPAEFPPHLQAGAMRRRFWGVFNCLCAGAFGALAAASAKLA  
FGSEVSMGLCVLGIIVMASTNSLMWTFFSRGLSFSMSSAIASVTVTFSNILSSAFLGYVL  
YGECQEVLLWGGVFLILCGLTLIHRKLPPTWKPLPHKQQ

>sp|AOPK05|TMM72\_HUMAN Transmembrane protein 72 OS=Homo sapiens GN=TMEM72 PE=2 SV=1  
MQLQVFWTGLEYTCRLLGITTAAVLIGVGTETFLQGQFKSLAFYLLFTGAAVSICEGAYF  
VAQLLAICFQCQPGSLADRVREKAHWLGCQKFLAYLLLSVACFLHPVLVWHVTIPGSML

IITGLAYFLLSKRKKRKAPEVLASPEQYTDPSSSAVSTTGSGDTEQTYTFHGALKEGPS  
SLFIHMKSIKGTKKPSALQPPNTLMELSLEPADSLAKKKQVHFEDNLVRIVPSLAEGLD  
DGDSEPEETSDTTPIIPPPQAPLFLSSLTATGLF

>sp|Q96NL1|TMM74\_HUMAN Transmembrane protein 74 OS=Homo sapiens GN=TMEM74 PE=1 SV=1  
MELHYLAKKSNQADLCDARDWSSRGLPGDQADTAATRAALCCQKQCASTPRATEMEGSKL  
SSSPASPSSSLQNSTLQPDAFPGLLHSGNNQITAERKVCNCCSQELETSTFTYVDKNINL  
EQNRNRSSPSAKGHNHPGELGWENPNEWSQEAASLISEEEDDTSSEATSSGKSIDYGFIS  
AILFLVTGILLVIIISYIVPREVTVDNPNTVAAREMERLEKESARLGAHLDRCVIAGLCLLT  
LGGVILSCLLMMSMWKGELYRRNRFASSKESAKLYGSFNFMRKTSTNENTLELSLVEEDA  
LAVQS

>sp|Q8N9X5|TMM75\_HUMAN Transmembrane protein 75 OS=Homo sapiens GN=TMEM75 PE=2 SV=1  
MRPTADSFRLKKGNVFPNFDPCAQALQKSCHFALSFLIGKMGIILSVCLICTRLLQEGI  
AQSKCLINVSFSLYSCFIVFTISQDSETLSLDCDHRLFFSLPFTDPASGGQSQHSWPCP  
ERSKNLPQVSKQLRNAG

>sp|Q9BSE2|TMM79\_HUMAN Transmembrane protein 79 OS=Homo sapiens GN=TMEM79 PE=1 SV=1  
MTEQETLALLEVKRSDSPEKSSPQALVPNGRQPEGEGGAESPGAESLRVGSSAGSPTAIE  
GAEDGLDSTVSEAATLPWGTGPQSAPFPDPPGWRDIEPEPPESEPLTKLEELPEDDANL  
LPEKAARAFVPIDLCIERQPQEDLIVRCEAGEGECRTFMPPRVTHDPPTERKWAEAVVR  
PPGCSCGGCGSCGDREWLRAVASVGAALILFPCLLYGAYAFLPFDVPRLPMTSSRLIYTL  
RCGVFATFPFIVLGILVYGLSLLCFALRPFGEPRREVEIHRRYVAQSVQLFIFYFFNLAV  
LSTYLPQDTLKLPLLTGLFAVSRLIYWLTFVGRSFRGFGYGLTFLPLLSMLMWNLYYM  
FVVEPERMLTATESRLDYPDHARSADYRPRPWG

>sp|Q96N35|TMM83\_HUMAN Putative uncharacterized protein encoded by LINC00052 OS=Homo sapiens GN=LINC00052 PE=5 SV=1  
MNCDALLHHSIAIPEDFLHIFLLLQKISVSLPLSLSQSVCLFYISISLCVSLLLHISLCVSV  
YVLSLSSSFPCFSLTHTHTHSQLSKDTSVLTFTFCKQHTHTLNYTSHAHELSAPSVHP  
TCVFTFKAAPSPRPAT

>sp|Q6UXU6|TMM92\_HUMAN Transmembrane protein 92 OS=Homo sapiens GN=TMEM92 PE=2 SV=1  
MSQAWVPGLAPTLFSLLAGPQKIAAKCGLILACPKGFKCCGDSCCQENELFPGPVRIFFV  
IIFLVILSVFCICGLAKCFRCNCREPEPDSPVDCRGPLELPSIIPPERVRVSLAPPPPY  
SEVILKPSLGPTTEPPPPYSFRPEEYTGDRGIDNPAF

>sp|Q9Y2Y6|TMM98\_HUMAN Transmembrane protein 98 OS=Homo sapiens GN=TMEM98 PE=1 SV=1  
METVVIVAIGVLATIFLASFAALVLVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPS  
ELELDDVVITNPHIEAILENEDWIEDASGLMSHCIAILKICHTLTEKLVAMTMGSGAKMK  
TSASVSDIIVVAKRISPRVDDVVKSMYPPLDPKLLDARTTALLSVSHLVLVTRNACHLT  
GGLDWIDQSLSAEEHLEVLREAAALASEPDKGLPGPEGFLQEQSAI

>sp|Q6ZT21|TMPPE\_HUMAN Transmembrane protein with metallophosphoesterase domain OS=Homo sapiens GN=TMPPE PE=2 SV=2  
MAIFRQLSLGAKATLAAVTVFVSMIASRSYLAESLELRAWRWLLRLQLALFVNSLLLIGS  
LYIWRSTVSNLCHSPAESTCFQLWKVVVLAFLALAHSSFFTMMFFLVAEEPYLFSLAAYS  
CLGAYIIMLFFLFILSGMEQAYQLLAWRSGRVVGSLEKTRKLVLRPALAVGVTAVLSVAG  
ILNAAQPPAVKTVEVPIHQLPASMNNLKIVLLSDIHLGPTVGRTKMEMFVRMVNVLEPDI  
TVIVGDLSDSEASVLRATAVAPLGLHSHLGAYFVTGNHEYYSDDVSNWFALLES�HVQPL  
HNENVKISATRAQRGGGGSGSGSEDEDWICLAGVDDIEADILHYSGHGMDLDKALEGCSP

DHTI ILLAHQPLAAKRALQARPDINLILSGHTAGQIFPLNVAAYLLNPFFAGLYQVAQA  
TFVYVSPGTAYYGIPMRLGSRAEITELILQRSP

>sp|O15393|TMPS2\_HUMAN Transmembrane protease serine 2 OS=Homo sapiens GN=TMPRSS2 PE=1  
SV=3

MALNSGSPPAIGPYENHGYQPENPYPAQPTVVPTVYEVHPAQYYPSVPQYAPRVLTA  
SNPVVCTQPKSPSGTVCTSKTKKALCITLTGTLVGAALAAGLLWFMGSKCSNSGIEC  
DSSGTCINPSNWCDSVSHCPGGEENRCVRLYGNFILQVYSSQRKSWHPVCQDDWNENY  
GRAACRDMGYKNNFYSSQGI VDDSGSTSMKLNTSAGNVDIYKKLYHSDACSSKAVVSLR  
CIACGVNLNSSRQSRIVGGESALPGAWPWQVSLHVQNVHVCGGSII TPEWIVTAAHCEVK  
PLNNPWHWTAFAGILRQSFMYGAGYQVEKVISHPNYDSKTKNNDIALMKLQKPLTFNDL  
VKPVCLPNPGMMLQPEQLCWISGWGATEEKGTSEVLNAAKVLLIETQRCNSRYVYDNL  
TPAMICAGFLQGNVDSQCQDGGPLVTSKNNIWWLIGDTSWGSACAAYRPGVYGNVMVF  
TDWIYRQMRADG

>sp|Q8IU80|TMPS6\_HUMAN Transmembrane protease serine 6 OS=Homo sapiens GN=TMPRSS6 PE=1  
SV=3

MLLLFHSKRMPVAEAPQVAGGQGDGGDGEEAEPEGMFKACEDSKRKARGYLRLVPLFVLL  
ALLVLASAGVLLWYFLGYKAEVMVSQVYSGSLRVLNRHFSQDLTRRESSAFRSETAKAQK  
MLKELITSTRLTGYNSSSVYSFGEGPLTCFFWFI LQIPEHRRLMLSPEVVQALLVEELL  
STVNSSAAVPYRAEYVDPEGLVILEASVKDIAALNSTLGCYRYSYVGQGVRLKGPDH  
LASSCLWHLQGPDKLMLKLRLWTLAECDRLAMYDVAGPLEKRLITSVYGCSRQEPVVE  
VLASGAIMAVVWKKGLHSYDPPFVLSVQPVVFQACEVNLTDNRDLSQGVLPSTPYFPSY  
SPQTHCSWHLTVPSLDYGLALWFDAYALRRQKYDL PCTQGQWTIQNRRLCGLRILQPYAE  
RIPVVATAGITINFTSQISLTGPGVRVHYGLYNQSDPCPGEFLCSVNGLCVPACDGVKDC  
PNGLDERNCVCRATFQCKEDSTCISLPKVCDDGQPDCLNGSDEEQCEGVPCGTFTFQCED  
RSCVKKPNPQCDGRPDGRDGSDEEHCDGLQGPSSRIVGGAVSSEGEWPWQASLQVRGRH  
ICGGALIADRWVITAAHCFQEDSMASVTVLWTVFLGKVVQNSRWPGEVSFKVSRLLLHPYH  
EEDSHDYDVALQLDHPVVRSAAVRPVCLPARSHFFEPGLHCWITGWGALREGGPISNAL  
QKVDVQLIPQDLCEVYRYQVTPRMLCAGYRKGGKDACQDGGPLVCKALSGRWFLAGL  
VSWGLGCGRPNYFGVYTRITGVISWQQVVT

>sp|Q9BYE2|TMPSD\_HUMAN Transmembrane protease serine 13 OS=Homo sapiens GN=TMPRSS13 PE=2  
SV=4

MERDSHGNASPARTPSAGASPAQASPAGTPPGRASPAQASPAQASPAGTPPGRASPAQAS  
PAGTPPGRASPGRASPAQASPAQASPARASPALASLSRSSSGRSSSARSASVTTSPTRVY  
LVRATPVGAVPIRSSPARSAPATRATRESPGTS LPKFTWREGQKQLPLIGCVLLLIALVV  
SLIILFQFWQGHTGIRYKEQRESCPKHAVRCDGVVDCKLKSDELGCVRFDWDKSLKTIYS  
GSSHQWLPICSSNWNDSYSEKTCQQLGFESAHRTEVAHRDFANSFSLRYNSTIQESLH  
RSECPQSRYISLQCSHCLRAMTGRIVGGALASDSKWPWQVSLHFGTTHICGGTLIDAQW  
VLTAACHCFVTVREKVLEGWKVYAGTSNLHQLPEAASIAEIIINSNYTDEEDDYDIALMRL  
SKPLTLSAHIHPACLPMHGQTFSLNETCWITGFGKTRETDDKTSPLREVQVNLIDFKKC  
NDYLVYDSYLTPRMMCAGDLRGGDSCQDGGGPLVCEQNNRWYLAGVTSWGTGCGQRNK  
PGVYTKVTEVLPWIYSKMEVRSLLQDTPSRLGTSSGGDPGGAPRV

>sp|P50591|TNF10\_HUMAN Tumor necrosis factor ligand superfamily member 10 OS=Homo sapiens  
GN=TNFSF10 PE=1 SV=1

MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCAVTVYVFTNELKQMQDKYSKSGIACFLKE

DDSYWDPNDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPLVRERGPQ  
RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFSLNLHLRNGELVIHEKG  
FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLY  
SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

>sp|O14788|TNF11\_HUMAN Tumor necrosis factor ligand superfamily member 11 OS=Homo sapiens  
GN=TNFSF11 PE=1 SV=1

MRRASRDYTKYLRGSEEMGGPGAPHEGPLHAPPPAPHQPPAASRSMFVALLGLGLGQV  
VCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRIK  
QAFQGAQVQKELQHIVGSQHIRAEKAMVDGSWDLAKRSKLEAQPF AHLTINATDIPSGSH  
KVSLSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLMV  
YVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLLD  
PDQDATYFGAFKVRDID

>sp|P01375|TNFA\_HUMAN Tumor necrosis factor OS=Homo sapiens GN=TNF PE=1 SV=1

MSTEMIRDVELAEALPKKTGGPQGSRRCLFSLFSFLIVAGATTLFCLLHFGVIGPQR  
EEFPRDLSLISPLAQAVRSSRTPSDKPVAVHVVANPQAEQQLQWLNRRANALLANGVELR  
DNQLVVPSEGLYLIYSQVLFKGQGC PSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRE  
TPEGAEAKPWYEPYILGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL

>sp|Q59H18|TNI3K\_HUMAN Serine/threonine-protein kinase TNNI3K OS=Homo sapiens GN=TNNI3K  
PE=1 SV=3

MGNYKSRPTQTCTDEWKKKVSESYVITIERLEDDLQIKEKELTELRNIFGSDEAFSKVNL  
NYRTENGLSLLHLCCICGGKKS HIRTLMLKGLRPSRLTRNGFTALHLAVYKDNAELITSL  
LHSGADIQQVGYGGLTALHIATIAGHLEAADVLLQHGANVNIQDAVFFTPLHIAAAYGHE  
QVTRLLLLKFGADVNVSGEVGDRPLHLASAKGFLNIAKLMEEGSKADVNAQDNEDHVPLH  
FCSRFGHHDIVKYLLQSDLEVQPHVVNIYGDTPHLACYNGKFEVAKEIIQISGTESLTK  
ENIFSETAFHSACTYKSIDLVKFLLDQNVININHQRDGTGLHSACYHGHIRLVQFLL  
DNGADMNLVACDPSRSSGEKDEQTCLMWAYEKGHDAIVTLLKHYKRPQDELPCNEYSQPG  
GDGSYVSVPSPLGKIKSMTKEKADILLRAGLPSHFHLQLSEIEFHEIIGSGSFGKVYKG  
RCRNKIVAIAKRYRANTYCSKSDVDMFCREVSILCQLNHPCVIQFVGACLN DPSQFAIVTQ  
YISGGSLSLLEHQKRILDLQSKLIIAVDVAKGMEYLHNLTPPIIHRDLNSHNILLYEDG  
HAVVADFGESRFLQSLDEDNMTKQPGNLRWMAPEVFTQCTRYTIKADVFSYALCLWEILT  
GEIPFAHLKPAADAAAD MAYHHIRPPIGYSIKPISSLLIRGWNACPEGRPEFSEVVMKLE  
ECLCNIELMSPASSNSSGSLSPSSSSDCLVNRGGPGRSHVAALRSRFELEYALNARSYAA  
LSQSAGQYSSQGLSLEEMKRSLQYTPIDKYGYVSDPMSSMHFHSRNSSSFEDSS

>sp|Q96KP6|TNIP3\_HUMAN TNFAIP3-interacting protein 3 OS=Homo sapiens GN=TNIP3 PE=1 SV=2

MAHFVQGTSRMIAAESSTEHEKEAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQ  
FRSMKELYERKVAELKTKLDAAERFLSTREKDPHQQRKDDRQREDDRQRDLTRDRLQRE  
EKEKERLNEELHELKEENKLLKGKNTLANKEKEHYECEIKRLNKAQDALNIKCSFSEDC  
LRKSRVEFCHEEMRTEMEVLKQVQVIYEEDFKKERSDRERLNQEKEELQQINETSQSQNL  
RLNSQIKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDYQW  
YALDQLPPDVQHKANGLSSVKVHP

>sp|P19237|TNNI1\_HUMAN Troponin I, slow skeletal muscle OS=Homo sapiens GN=TNNI1 PE=1  
SV=3

MPEVERKPKITASRKLKLLKSLMLAKAKECWEQEHEEREAEKVRYLAERIPTLQTRGLSLS  
ALQDLCRELHAKVEVVDEERYDIEAKCLHNTREIKDLKLVMDLRGKFKRPPLRRVRVSA

DAMLRALLGSKHKVSMDLRANLKS VKKEDTEKERPVEVG DWRKNVEAMSGMEGRKKMFDA  
AKSPTSQ

>sp|P19429|TNNI3\_HUMAN Troponin I, cardiac muscle OS=Homo sapiens GN=TNNI3 PE=1 SV=3

MADGSSDAAREPRPAPAPIRRRSSNYRAYATEPHAKKSKISASRKLQLKTL LLLQIAKQE  
LEREAEERRGEKGRALSTRCQPLELAGLGFAELQDL CRQLHARVDKVDEERYDIEAKVTK  
NITEIADLTQKIFDLRGKFKRPTLRVRISADAMMQALLGARAKESLDLRAHLKQVKKED  
TEKENREVG DWRKNIDALSGMEGRKKKFES

>sp|P25445|TNR6\_HUMAN Tumor necrosis factor receptor superfamily member 6 OS=Homo sapiens  
GN=FAS PE=1 SV=1

MLGIWTLPLVLTSVARLSSKSVAQVTDINSKGLELRKTVTTVETQNLEGLHHDGQFCH  
KPCPPGERKARDCTVNGDEPDCVPCQEGKEYTDKAHFSSKCRRCRLCDEGHGLEVEINCT  
RTQNTKCRCKPNFFCNSTVCEHCDPCTKCEHGI IKECTLT SNTKCKEEGSRSNLWLCCL  
LLPIPLIVVVKRKEVQKTCRKHRENQGSHESTLPN PETVAINLSDVDLSKYITTIAGVM  
TLSQVKG FVRKNGVNEAKIDEIKNDNVQDTAEQKVQLLRNWHQLHGKKEAYDTLIKDLKK  
ANLCTLAEKIQTII LKDITSSENSFRNEIQSLV

>sp|Q63HR2|TNS2\_HUMAN Tensin-2 OS=Homo sapiens GN=TNS2 PE=1 SV=2

MKSSGPVERLLRALGRRDSSRAASRPKAEPHSFREKVFRKKPPVCAVCKVTIDGTGVSC  
RVCKVATHRKCEAKVTSACQALPPVELRRNTAPVRRIEHLGSTKSLNHSKQRSTLPRSFS  
LDPLMERRWDLDTYVTERILAAFPARPDEQRHRGHLRELAHVLQSKHRDKYLLFNLSE  
KRHDLTRLNPKVQDFGWPELHAPPLDKLCSICKAMETWLSADPQHVVLYCKGNKGKLG  
IVSAYMHYSKISAGADQALATLTMRKFCEDKVATELQPSQRRYISYFSGLLSGSIRMNSS  
PLFLHYVLIPMLPAFEPGTGFQPF LKIYQSMQLVYTSGVYHIAGPGPQQLCISLEPALLL  
KGDVMVTCTYHKGGRGTDRTLVRVRFHTCTIHGPQLTFPKDQLDEAWTDERFPFQASVEF  
VFSSSPEKIKGSTPRNDPSVSDYNTTEPAVRWDSYENFNQHEDSVDGSLTHTRGPLDG  
SPYAQVQRPPRQTPPAPSPEPPPPM LSVSSDSGHSSTLTTEPAAESPGRPPTAAERQE  
LDRLGGCGVASGGRGAGRETAILDDEEQPTVGGGPHLG VYPGHRPGLSRHCSCRQGYRE  
PCGVPNGGYRPEGTLERRRLAYGGYEGSPQGYAEASMEKRRLCRSLSEGLYPYPPMGK  
PATGDFGYRAPGYREVVILEDPLALYPCPACEEKLALPTAALYGLRLEREAGEGWASE  
AGKPLLHPVRPGHPLPLLLPACGHHHAPMPDYSCLKPPKAGEEGHEGCSYTMCEPGRYGH  
PGYPALVTYSYGGAVPSYCPAYGRVPHSCGSPGEGRGYPSGAHSPRAGSISPGSPYPQ  
SRKLSYEIPTEEGDRYPLPGHLASAGPLASAESLEPVS WREGPSGHSTLPRSPRDAPCS  
ASSELSGPSTPLHTSSPVQKESTRRQDTRSPTSAPTQRLSPGEALPPVSQAGTGKAPEL  
PSGSGPEPLAPSPVSPTFPSSPSDWPQERSPGGHS DGASPRSPVPTTLPGLRHAPWQGP  
RGPPDSPDGSPLTPVPSQMPWLVASPEPPQS SPTPAFPLAASYDTNGLSQPPLPEKRHLP  
GPGQQPGPWGPEQASSPARGISHHVTFAPLLSDNVPQTPEPPTQESQSNVKFVQDTSKFW  
YKPHLSRDQAIALLKDKDPGAFLIRDSHSFQ GAYGLALKVATPPPSAQPWKGD PVEQLVR  
HFLIETGPKGVKIKGCPSEPYFGSLSALVSQHSISPISLPCLRIPSKDPLEETPEAPVP  
TNMSTAADLLRQAACSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFKVSA  
QGITLTDNQRKLFRRHYPVNSITFSSTD PQDRRWTPDGTTSKIFGFVAKKPGSPWENV  
CHLFAELDPDQPAGAI VTFITKVLLGQRK

>sp|Q15388|TOM20\_HUMAN Mitochondrial import receptor subunit TOM20 homolog OS=Homo  
sapiens GN=TOMM20 PE=1 SV=1

MVGRNSAIAAGVCGALFIGYCIYFDRKRRSDPNFKNRLRERRKKQKLAKERAGLSKLPDL  
KDAEAVQKFFLEEIQLGEELLAQGEYEKGV DHLTNAIIVCGQPQQLQVLQQTLP PPVFQ

MLLTKLPTISQRIVSAQSLAEDDVE

>sp|Q8TEL6|TP4AP\_HUMAN Short transient receptor potential channel 4-associated protein  
OS=Homo sapiens GN=TRPC4AP PE=1 SV=2

MAAAPVAAGSGAGRGRSAATVAAWGGWGRPRPGNILLQLRQGQLTGRGLVRAVQFTET  
FLTERDKQSKWSGIPQLLLKLHTTSHLHSDFVECQNILKEISPLLSMEAMAFVTEERKLT  
QETTPNTYIFDLFGGVDLLVEILMRPTISIRGQKLKISDEMSKDCLSILYNTCVCTEGV  
TKRLAEKNDFVIFLFTLMTSKKTLQTATLIEDILGVKKEMIRLDEVNLSLVSNFDQQ  
QLANFCRILAVTISEMDTGNDKHTLLAKNAQQKKSLSLGPAAEINQAALLSIPGFVER  
LCKLATRKVSESTGTASFLQELEEYWTWLDNALVLDALMRVANESEHNQASIVPPPGA  
SEENGLPHTSARTQLPQSMKIMHEIMYKLEVLYVLCVLLMGRQRNQVHRMIAEFKLIPGL  
NNLFDKLIWRKHSASALVLHGHNQNCDCSPDITLKIQLRLLQSFSDHHENKYLLNNQE  
LNELSAISLKANIPVEAVLNTDRSLVCDGKRGLLTRLLQVMKKEPAESSFRFWQARAVE  
SFLRGTTSYADQMFLKRGLEHILYCIVDSECKSRDVLQSYFDLLGELMKFNVDFAKRF  
NKYINTDAKFQVFLKQINSSLVDSNMLVRCVTLSLDRFENQVDMKVAEVLSECRLAYIS  
QVPTQMSFLFRLINI IHVQTLTQENVSLNTSLVILMLARRKERLPLYLRLLRMEHSKK  
YPGFLNNFHNLLRFWQQHYLHKDKDSTCLESSCISFSYWKETVSILLNPDRQSPSALV  
SYIEEPYMDIDRDFTEE

>sp|Q12888|TP53B\_HUMAN Tumor suppressor p53-binding protein 1 OS=Homo sapiens GN=TP53BP1  
PE=1 SV=2

MDPTGSQLDSDFSQQDTPCLIIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKENPVLD  
VVSNEQTAGEERGDGNSGFNEHLKENKVADPVDSSNLDTCGSISQVIEQLPQPNRTSSV  
LGMSVESAPAVEEEKGEELEQKEKEKEEDTSGNTTHSLGAEDTASSQLGFGVLELSQSQD  
VEENTVPYEVDKELQSVTTNSGYTRLSDVDANTAIKHEEQSNEDIPIAEQSSKDIPVTA  
QPSKDVHVVKENPPPARSEDMPFSPKASVAAMEAKEQLSAQELMESGLQIQKSPEPEVL  
STQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPATTLLHLLQLSGQRSLVQDSLSTNSS  
DLVAPSPDAFRSTPFI VPSSTEQEGRQDKPMDTSVLSEEGGEPFQKKLQSGEPVELENP  
PLLPESTVSPQASTPISQSTPVFPFPGSLPIPSQPQFSHDIFIPSPSLEEQSNKGKDGDM  
HSSSLTVECSKTSEIEPKNSPEDLGLSLTGDSCKLMLSTSEYSQSPKMESLSSHRIDEDG  
ENTQIEDTEPMSPVLNSKFVPAENDSILMNPAGDEVQLSQNDKTKGDDTDTRDDISIL  
ATGCKGREETVAEDVCIDLTCDSGSQAVPSPATRSEALSSVLDQEEAMEIKEHHPEEGSS  
GSEVEEIPETPCESQGEELKEENMESVPLHLSLTETQSQGLCLQKEMPKECEAMEVET  
SVISIDSPQKLAILDQELEHKEQEAWEATSEDSVVIVDVKEPSPRVDVSCEPLEGVEK  
CSDSQSWEDIAPEIEPCAENRLDTKEEKSVEYEGDLKSGTAETEPVEQDSSQPSLPLVRA  
DDPLRLDQELQQPQTQEKTSNLTEDSKMANAKQLSSDAEAQKLKPSAHASQSFCESSS  
ETPFHFTLPKEGDIIPPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSESM  
VETHDPILGSGKGDGAAPDVDDKLCLRMKLVSPETEASEESLQFNLEKPATGERKNGST  
AVAESVASPQKTMSVLSCICEARQENEARSEDPPPTPIRGNLLHFPSSQGEEKEKLEGD  
HTIRQSQQPMKPISPVKDPVPASQKMVIQGPSSPQGEAMVTDVLEDQKEGRSTNKENPS  
KALIERPSQNNIGIQTMECSLRVPETVSAATQTIKNVCEQGTSTVDQNFQKQDATVQTER  
GSGEKPVSA PGDDTESLHSQGEFEEDMPQPPHGHVLRHMRITIREVRTLVTRVITDVYYV  
DGTEVERKVTEETEEPIVECQECETEVSPSQTGSSGDLGDISSFSSKASSLHRTSSGTS  
LSAMHSSGSSGKAGPLRGKTSGETPADFALPSSRGGPGKLSPRKGVSTGTPTVCEEDGD  
AGLGIRQGGKAPVTPRGRGRGRPPSRTTGTRETAVPGPLGIEDISPNLSPDDKFSRVV  
PRVPDSTRRTDVGAGALRRSDSPEIPFQAAAGPSDGLDASSPGNSFVGLRVVAKWSSNGY

FYSGKITRDVGAGKYKLLFDDGYECDVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKG  
HRKESGELYYSIEKEGQRKWKYKMAVILSLEQGNRLREQYGLGPYEAVTPLTKAADISLD  
NLVEGKRKRNSVSSPATPTASSSSSTTPTRKITESPRASMGVLSGKRKLITSEEERSPA  
KRGRKSATVKPGAVGAGEFVSPCESGDNTGEPsALEEQRGPLPLNKTFLGYAFLLTMAT  
TSDKLASRSKLPDGTGSSEEEEEEFLEIPPFNKQYTESQLRAGAGYILEDfNEAQCNTAY  
QCLLIADQHCRTRKYFLCLASGIPCvSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQRIL  
DWQPRENPFQNLKVLVSDQQNFLELWSEILMTGGAASVKQHHSSAHNKDIALGVFDVV  
VTDPSCPASVLKCAEALQLPVVSQEWVIQCLIVGERIGFKQHPKYKHDYVSH

>sp|PODI82|TPC2B\_HUMAN Trafficking protein particle complex subunit 2B OS=Homo sapiens  
GN=TRAPPC2B PE=1 SV=1

MSGSFYFVIVGHHDNPVFEMEFLPAGKAESKDDHRHLNQFIAHAALDLVDENMWLSNNMY  
LKTVDKFNFWFSAFVTAGHMRFIMLHDIRQEDGIKNFFTDVYDLYIKFSMNPFYEPNSP  
IRSSAFDRKVQFLGKKHLLS

>sp|P55327|TPD52\_HUMAN Tumor protein D52 OS=Homo sapiens GN=TPD52 PE=1 SV=2

MDCREMDLYEDYQSPFDfDAGVNKSYLYLSPSGNSSPPGSPTLQKFGLLRTPVP EEGED  
VAATISATETLSEEEQEELRRELAKVEEEIQTLsqVLAaEKHLAEIKRKLGINSLQELK  
QNIAGWQDVTATSAYKKTSETLSQAGQKASAAfSSVGSVITKKLEDVKNSPTFKSFEEK  
VENLKSKVGGTKPAGGDFGEVLNSAANASATTEPLPEKTQESL

>sp|Q96J77|TPD55\_HUMAN Tumor protein D55 OS=Homo sapiens GN=TPD52L3 PE=1 SV=2

MPHARTETSVGTYESHSTSELEDLTePEQRELKTKLTKLEAEIVTLRHVLAaKERRCGEL  
KRKLGLTALVGLRQNLskSWLDVQVSNTYVKQKTSaALSTMGTLICRKLGGVKKSATFRS  
FEGLMGTIKSKVSGGKRAWP

>sp|Q6ZTW0|TPGS1\_HUMAN Tubulin polyglutamylase complex subunit 1 OS=Homo sapiens GN=TPGS1  
PE=1 SV=2

MAAVEKRRQAVPPPAGFTDSGRQSVsRAAGAAESEEDFLRQVGvTEMLRAaLLKVLEARP  
EEPIAFLAHYFENMGLRSPVNGGAGEPPGQLLLQQQLGRALWHLRLAHHSQRAAFNNV  
SVAYECLSAGGRRKRPGLDGRTYSELLRRICRDGQAPEEVVAPLLRKVQCRDHEAVPLSV  
FRAGTLTCFVLLEFVARAGALFQLLEDsAAAVADRRVGQAVLDTLEGALQASDAaAPARF  
LEAGSRLGPDsLALALDRAVGRRPSAPMTREEFLERAaALFIAKVKPVG

>sp|P17752|TPH1\_HUMAN Tryptophan 5-hydroxylase 1 OS=Homo sapiens GN=TPH1 PE=1 SV=4

MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLHIESRKSRRNSEF  
EIFVDCDINREQNDIFHLKsHTNVLSVNLPDNFTLKEDGMETVPWFPKKISDLdHCAN  
RVLMyGSELdADHPGfKDNVYKRKRKYFADLAMNYKHGDPIPKVEfTEEEIKTWGTVfQE  
LNKLYPTHACREYLKNLPLLSKYCGYREDNIPQLEDVSNFLKERTGFSIRPVAGYLSPRD  
FLSGLAFRVFHCTQYVRHSSDPFYTPEDTCHELLGHVPLLAEPsFAQFSQEIGLASLGA  
SEEAVQKLATCYFFTVEfGLCKQDGLRVFGAGLLSSISELKHALSghAKVKPFDPKITC  
KQECLITTFQDVYFVSESfEDAKeKMREFTKTIKRPFGVKYNPYTRSIQILKDTKSITSA  
MNELQHDLdDVSDALAKVSRKPSI

>sp|Q9H3S4|TPK1\_HUMAN Thiamin pyrophosphokinase 1 OS=Homo sapiens GN=TPK1 PE=1 SV=1

MEHAFTPLELLSTGNLKYCLVILNQPLDNYFRHLWNKALLRACADGGANRLYDITEGER  
ESFLPEfINGDFDSIRPEVREYYATKGCELISTPDQDHTDfTKCLKMLQKKIEEKDLKVD  
VIVTLGGLAGRFdQIMASVNTLFQATHITPFPIIIIEESLIYLLQPGKHRLHVDtGMEG  
DWCGLIPVgQPCMQVTTTGLKWNLTNDVLAfGTLVSTsNTYDGSgVTVVETDHPLLTMA  
IKS

>sp|P06753|TPM3\_HUMAN Tropomyosin alpha-3 chain OS=Homo sapiens GN=TPM3 PE=1 SV=2

MMEA IKKKMQLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKGTEDELDK  
YSEALKDAQEKLELAEKKAADAEVASLNRRIQLVEEELDRAQERLATALQKLEEA EKA  
ADESERGMKVIENRALKDEEKMELQEIQKEAKHIAEEADRKYEEVARKLVIIEGDLERT  
EERAELAESKCELEELKNVTNNLKSLEAQAEKYSQKEDKYE E EIKILTDKLKEAETRA  
EFAERSVAKLEKTIDDELELYAQKLKYKAISEELDHALNDMTSI

>sp|Q96Q05|TPPC9\_HUMAN Trafficking protein particle complex subunit 9 OS=Homo sapiens  
GN=TRAPPC9 PE=1 SV=2

MSVPDYMCAEDHQTLVVVQPVGIVSEENFFRIYKRICSVSQISVRDSQRVLYIRYRHH  
YPPENNEWGDFQTHRKVVLITITDCFSAKDWPQTFEKFHVQKEIYGSTLYDSRLFVFG  
LQGEIVEQPRTDVAFYPNYEDCQVTEKRIEDFIESLFIVLESKRDRATDKSGDKIPLLCV  
PFEKKDFVGLDTSRHYKKRCQGRMRKHVGDLCQAGMLQDSL VHYHMSVELLRSVNDFL  
WLGAALEGLCSASVIYHYPGGTGGKSGARRFQGSTLPAAANRHRPGAQEV LIDPGALT  
TNGINPDTSTEIGRAKNCLSPEDIIDKYKEAISYYSKYKNAGVIELEACIKAVRVLAIQKR  
SMEASEFLQNAVYINLRQLSEEEKIQRYSI LSELYELIGFHRKSAFFKRVAAMQCVAPSI  
AEPGWRACYKLLLETLPGYSLSDPKDFS RGTGRGWA AVQMRLHEL VYASRRMGNPALS  
VRHLSFLLQTMDFLSDQEKKDVAQSLENYTSKCPGTMEPIALPGGLTLPPVPFTKLPIV  
RHVKLLNLPASLRPHKMSLLGQNVSTKSPFIYSPIIAHNRGEERNKKIDFQWVQGDVCE  
VQLMVYNPMPFELRVENMGLLTSGVEFESLPAALSLPAESGLYPVTLVGVPQTGTITVN  
GYHTTVFGVFSDDLNLPGIKTSGSTVEVIPALPRLQISTSLPRSAHSLQPSSGDEIST  
NVSVQLYNGESQQLIKLENIGMEPLEKLEVT SKVLT TKEKLYGDFLSWKLEETLAQFPL  
QPGKVATFTINIKVKLDFSCQENLLQDLSDDGISVSGFPLSSPFRQVVRPRVEGKPVNPP  
ESNKAGDYSHVKTLEAVLNFKYSGGPGHTEGYRNL SLGLHVEVEPSVFFTRVSTLPATS  
TRQCHLLLDVFNSTEHELT VSTRSSEALILHAGECQRM AIQVDKFNFESFPESPGEKGQF  
ANPKQLEEEERREARGLEIHSKLGICWRIPSLKRSGEASVEGLLNQLVLEHLQLAPLQWDV  
LVDGQPCDREAVAACQVGDPVRLEVRLTNRSPRSVGP FALTVVPFQDHQNGVHNYDLHDT  
VSFVGSSTFYLDVAVQPSGQSACLGALLFLYTGDFFLHIRFHEDSTSKELPPSWFCLPSVH  
VCALEAQA

>sp|P59282|TPPP2\_HUMAN Tubulin polymerization-promoting protein family member 2 OS=Homo  
sapiens GN=TPPP2 PE=1 SV=2

MASEAEKTFHRFAAFGESSSGTEMNNKNFSKLCKDCGIMDGKTVTSTDVDIVFSKV KAK  
NARTITFQQFKEAVKELGQKRFKGKSPDEVLENIYGLMEGKDPATTGATKATTVGAVDRL  
TDTSKYTGTHKERFDESGKGKGIAGREEMTDNTGYVSGYKSGTYDKKTK

>sp|O60296|TRAK2\_HUMAN Trafficking kinesin-binding protein 2 OS=Homo sapiens GN=TRAK2  
PE=1 SV=2

MSQSQNAIFTSTPTGEENLMNSNHRDSEITDVCSNEDLPEVELVSLLEEQLPQYRLKVDT  
LFLYENQDWTQSPHQRQHASDALSPVLAETFRYMILGTDRVEQMTKTYNDIDMVTHLLA  
ERDRDLELAARIGQALLKRNVHLS EQNESLEEQLGQAFDQVNQLQHELCKKDELLRIVSI  
ASEESETDSSCSTPLRFNFSLSQGLLQLEMLQEKLKELEENMALRSKACHIKTETVT  
YEEKEQQLVSDCVKELRETNAQMSRMTEELSGKSDELIRYQEELSSLLSQIVDLQHLKE  
HVIEKEELKLHLQASKDAQRQLTMELHELQDRNMECLGMLHESQEEIKELRSRSGPTAHL  
YFSQSYGAFTGESLAAEIEGTMRKKLSLDEESSLFKQKAQKRVFDTVRIANDTRGRSIS  
FPALLPIPGSNRSSVIMTAKPFESGLQQTEDKSLLNQGSSEEVAGSSQKMGQPGPSGDS  
DLATALHRLSLRRQNYLSEKQFFAE EWQRKIQVLADQKEGVSGCVTPTESLASLCTTQSE



ITDLSSASCLRGFMPEKLQIVKPLEGSQTLYHWQQLAQPNLGTILDPRPGVITKGFTQLP  
GDAIYHISDLEEDDEEGITFQVQQPLEVEEKLSTSKPVTGIFLPPITSAGGPVTVATANP  
GKCLSCTNSTFTFTTCRILHPSDITQVTPSSGFPSSLSCGSSGSSSSNTAVNSPALSYRLS  
IGESITNRRDSTTTFSSTMSLAKLLQERGISAKVYHSPISENPLQLPKSLAIPSTPPNS  
PSHSPCPSPLPFEPVHLSNFLASRPAETFLQEMYGLRPSRNPPDVGQLKMNLDRLKR  
LGIARVVKNPQAQENGRCQAEIGPQKPDSAVYLNSSGSSLLGGLRRNQSLPVIMGSFAAP  
VCTSSPKMGVLKED

>sp|O14717|TRDMT\_HUMAN tRNA (cytosine(38)-C(5))-methyltransferase OS=Homo sapiens  
GN=TRDMT1 PE=1 SV=1

MEPLRVLELYSGVGGMHHLRESCIPAQVVAIDVNTVANEVYKYNFPHTQLLAKTIEGI  
TLEEFDRLSFDMILMSPPCQPFTRIGRQGMDSRTNSFLHILDILPRLQKLPKYILLEN  
VKGFEVSTRDLLIQTIENTCGFYQEFLLSPTSLGIPNSRLRYFLIAKLQSEPLPFQAPG  
QVLEMEFPKIESVHPQKYAMDVENKIQEKNVEPNISFDGSIQCSGKDAILFKLETAEEIHR  
KNQQDSDSL SVKMLKDFLEDDTDVNQYLLPPKSLLRYALLLDIVQPTCRRSVCFTKGYGSY  
IEGTGSLVQTAEDVQVENIYKSLTNLSQEEQITKLLILKLYFTPKEIANLLGFPPEFGF  
PEKITVKQRYRLLGNLNVHVVAKLILKILYE

>sp|Q3ZCQ8|TIM50\_HUMAN Mitochondrial import inner membrane translocase subunit TIM50  
OS=Homo sapiens GN=TIMM50 PE=1 SV=2

MAASAAVFSRLRSLRGLGSRGLCTRLATPPRRAPDQAAEIGSRGSTKAQGPQQPGSEGP  
SYAKKVALWLAGLLGAGGTVSVVYIFGNPVDENGAKIPDEFDNDPILVQQLRRTYKYFK  
DYRQMIIEPTSPCLLPDPLQEPYYPYTLVLELTGVLLHPEWSLATGWRFKKRPGETL  
FQQLAPLYEIVIFTSETGMTAFPLIDSVDPHGFISYRLFRDATRYMDGHHVKDISCLNRD  
PARVVVDCKKEAFRLQPYNGVALRPWDGNSDDRVLDDLAFKLTIALNGVEDVRTVLEH  
YALEDDPLAAFKQRQSRLEQEEQQLAELSKSNKQNLFLGSLTSRLWPRSKQP

>sp|Q9Y5J9|TIM8B\_HUMAN Mitochondrial import inner membrane translocase subunit Tim8 B  
OS=Homo sapiens GN=TIMM8B PE=1 SV=1

MAELGEADEAELQRLVAAEQKKAQFTAQVHHFMELCWDKCVEKPGNRLDSRTENCLSSCV  
DRFIDTTLAITSRFAQIVQKGGQ

>sp|O75663|TIPRL\_HUMAN TIP41-like protein OS=Homo sapiens GN=TIPRL PE=1 SV=2

MMIHGFQSSHRDFCFGPWKLTASKTHIMKSADVEKLADLHMPSLPEMMFGDNVLRIQHG  
SGFGIEFNATDALRCVNNYQGMKLVACAEWQESRTEGEHSKEVIKPYDWTYTTDYKGTL  
LGESLKLKVVPTTDHIDTEKLKAREQIKFFEEVLLFEDELHDHGVSLSVKIRVMPSSFF  
LLLRFFLRIDGVLIRMNDTRLHYEADKTYMLREYTSRESKISSLMHVPPSLFTEPNEISQ  
YLPKEAVCEKLIFPERIDPNPADSQKSTQVE

>sp|P58753|TIRAP\_HUMAN Toll/interleukin-1 receptor domain-containing adapter protein  
OS=Homo sapiens GN=TIRAP PE=1 SV=2

MASSTSLPAPGSRPKKPLGKMADWFRQTLLKKPKKRPNSPESTSSDASQPTSQDSPLPPS  
LSSVTSPLPPTHASDGSRRWSKDYDVCVCHSEEDLVAAQDLVSYLEGSTASLRCFLQL  
RDATPGGAIVSELQALSSSHCRVLLITPGFLQDPWCKYQMLQALTEAPGAEGCTIPLLS  
GLSRAAYPPELRFMYVVDGRGPDGGFRQVKEAVMRYLQTL

>sp|Q07352|TISB\_HUMAN mRNA decay activator protein ZFP36L1 OS=Homo sapiens GN=ZFP36L1  
PE=1 SV=1

MTTTLVSATIFDLSEVLCKGNKMLNYSAPSAGGCLLDRAVGTPAGGGFPRRHVTLPS  
KFHQNLQLSSLKGEPAPALSSRDSRFRDRSFSEGGERLLPTQKQPGGGQVNSSRYKTELC

RPFEENGACKYGDKCQFAHGIHELRLSTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNAE  
ERRALAGARDLSADRPRLQHSFSFAGFPSAAATAAATGLDSPTSITPPPILSADDLLGS  
PTLPDGTNNPFAFSSQELASLFAPSMGLPGGGSPTTFLFRPMSESPHMFDSPPSPQDSLS  
DQEGYLSSSSSSHSGSDSPTLDNSRRLPIFSRLSISDD

>sp|Q9Y5M6|TISR\_HUMAN Oculomedin OS=Homo sapiens GN=OCLM PE=2 SV=1

MGMYPPLLLKIYLSRHISILFYLKILYKSGIWLWSWYSFILLVL

>sp|043711|TLX3\_HUMAN T-cell leukemia homeobox protein 3 OS=Homo sapiens GN=TLX3 PE=1  
SV=3

MEAPASAQTPHPHEPISFGIDQILNSPDQDSAPAPRPGDGASYLGPPGGRPGATYPSLP  
ASFAGLGAPFEDAGSYSVNLSLAPAGVIRVPAHRPLPGAVPPPLPSALPAMPSVPTVSSL  
GGLNFPWMESSRRFVKDRFTAAAAALTFTVTRRIGHPYQNRTPPKRKKPRTSFSRVQICE  
LEKRFHRQKYLASAERAALAKSLKMTDAQVKTWFQNRRTKWRRQTAEEREAEERQQASRLM  
LQLQHDAFQKSLNDSIQPDPLCLHNSSLFALQNLQPWEEDSSKVPVATSLV

>sp|Q8N8V8|TM105\_HUMAN Transmembrane protein 105 OS=Homo sapiens GN=TMEM105 PE=2 SV=1

MLLKVRRASLKPPATPHQGAFRAGNVIGQLIYLLTWSLFTAWLRPPTLLQGPRTPSPQGSP  
PRSPWGDCAEPSCLCEMKIRRRRHEGPAWGQSGFLAGGLHLVPSSLSLAACGVVRMKGLW  
GRGAGIRGR

>sp|Q6PF06|TM10B\_HUMAN tRNA methyltransferase 10 homolog B OS=Homo sapiens GN=TRMT10B  
PE=2 SV=1

MDWKLEGSTQKVESPVLQGGEGILEETGEDGLPEGFQLLQIDAEGECQEGEILATGSTAW  
CSKNVQRKQRHWEKIVAACKSKRKQEKERRKANRAENPGICQHRSKRFLRALTKDKLLEA  
KHSGPRLCIDLSMTHYMSKKELSRLAGQIRRLYGSNKKADRPFWICLTGFTTDSPLYEEC  
VRMNDGFSSYLDDITEEDCFSLFPLETLVYLPDSEHALEDVDLNKVYILGGLVDESIQK  
KVTFQKAREYSVKTARLPIQEYMRNQNGKNYHSEILAINQVFDILSTYLETHNWPEALK  
KGVSSGKGYILRNSVE

>sp|Q86T26|TM11B\_HUMAN Transmembrane protease serine 11B OS=Homo sapiens GN=TMPRSS11B  
PE=2 SV=3

MYRHGISSQRSWPLWTTIFIFLGVAAILGVTIGLLVHFLAVEKTYYYQGDFHISGVTYND  
NCENASQASTNLSKDIETKMLNAFQNSSIYKEYVKSEVIKLLPNANGSNVQLQKFKFP  
PAEGVSMRTKIKAKLHQMLKNNMASWNAVPAIKLMEISKAASEMLTNCCGRQVANSII  
TGNIKIVNGKSSLEGAWPWQASMQWKGRHYCGASLISSRWLLSAAHCFACKNNSKDWTVNF  
GIVVNKPYMTRKVQNIIFHENYSSPLHDDIALVQLAEEVSFTEYIRKICLPEAKMKLSE  
NDNVVVTGWGTYLMNGSFPVILQEDFLKIIDNKICNASYAYSGFVTDMLCAGFMSGHAD  
ACQNDSSGGPLAYPDSRNIWHLVGIVSWGDCGKKNKPGVYTRVTSYRNWITSKTGL

>sp|Q96AQ2|TM125\_HUMAN Transmembrane protein 125 OS=Homo sapiens GN=TMEM125 PE=2 SV=1

MSEQEAQAPGGRGLPPDMLAEQVELWWSQQPRRSALCFVAVGLVAGCGAGGVALLSTTS  
SRSGEWRLATGTVLCLLALLVLVKQLMSSAVQDMNCIRQAHHVALLRSGGGADALVLLS  
GLVLLVTGLTLAGLAAAPAPARPLAAMLSVGIALAALGSLLLGLLLYQVGVSGHCPSIC  
MATPSTHSGHGGHGSIFSISGQLSAGRRHETTSSIASLI

>sp|Q5BJH2|TM128\_HUMAN Transmembrane protein 128 OS=Homo sapiens GN=TMEM128 PE=1 SV=1

MDSSRARQQLRRRFLILPDAAEQLDREGDAGPETSTAVEKKEKPLPRLNIHSGFWILASI  
VVITYYVDFFKTLKENFHTSSWFLCGSALLLVSLSI AFYCVILEWYCGIGEYDVKYPALI  
PITTASFIAAGICFNIALWHVWSFFTPLLLFTQFMGVVMFITLLG

>sp|AOAVI4|TM129\_HUMAN E3 ubiquitin-protein ligase TM129 OS=Homo sapiens GN=TMEM129 PE=1 SV=1

MDSPEVTFTLAYLVFAVCFVFTPNEFHAAGLTVQNLLSGWLGSEDAAFVPFHLRRTAATL  
LCHSLLPLGYVVMCLAASEKRLHALSQAPEAWRLFLLAVTLPSIACILIIYWSRDRWA  
CHPLARTLALYALPQSGWQAVASSVNTEFRRIDKFATGAPGARVIVTDTWVMKVTTYRVH  
VAQQQDVHLLTVTESRQHELSPDSNLPVQLLTIRVASTNPVQAFDIWLNSTEYGELCEKL  
RAPIRRAAHVVIHQSLGDLFLETFASLVEVNPAYSVPSSQELEACIGCMQTRASVKLVKT  
CQEAATGECQQCYCRPMWCLTCMGKWFASRQDPLRPDTWLASRVPCPTCRARFCILDVCT  
VR

>sp|Q9H2Q1|TM133\_HUMAN Transmembrane protein 133 OS=Homo sapiens GN=TMEM133 PE=2 SV=1  
MTSHHCVGPGNHISWSGHEKEHRLDYCPEVTFPLTKGFPLGYTLLENFASYPFLPSKIK  
TLLRNKDSFLNILCPACLLLIRRCNIEYSSTGLNFLNTFTVSLIVTVIPLLQNPVPLGN  
NVGKMQVYE

>sp|Q9H6X4|TM134\_HUMAN Transmembrane protein 134 OS=Homo sapiens GN=TMEM134 PE=2 SV=1  
MSAARPQFSIDDAFELSLEDGGPGPESSGVARFGPLHFERRARFEVADEDKQSRLRYQNL  
ENEDGAQASPEPDGGVGTDRSSRTSIRSSQWSFSTISSSTQRSYNTCCSWTQHPLIQKN  
RRVVLASFLLLLGLVLILVGVGLEATPSPGVSSAIFVPGFLLVPGVYHVIFIYCAVK  
GHRGFQFFYLPYFEK

>sp|Q96AN5|TM143\_HUMAN Transmembrane protein 143 OS=Homo sapiens GN=TMEM143 PE=2 SV=1  
MTVELWLRRLRGKGLAMLHVTRGVWGSRRVWVPLLPALLGPPRALSSLAAKMGEYRKMWNP  
REPRDWAQQYRERFIPFSKEQLRLLLIQEFHSSPAEKAALFAHVDFTLPHYHQLA  
RLQALYDPINPDRETLDQPSLTDPQRLSNEQEVLRALEPLLAQANFSPLSEDTLAYALVV  
HHPQDEVQVTVNLDQYVYIHFALGQRVGQMPLKSSVGSRRGFFTKLPPAERRYFKRVVL  
AARTKRGLVLKSFKDTPLEGLEQLPELKVRTPTLQRALLNLMLVSGVAIFVNVGMV  
LTDLKVATSLLLLLFAIFMGLRASKMFGQRRSAQALELAHMLYYRSTSNNSELLSALALR  
AQDEHTKEALLAHSFLARRPGGTQGSPEETSRWLRSEVENWLLAKSGCEVTFNGTRALAH  
LQALTSPMGLYPPPGFPKLDPVAPITSEPPQATPSSNIS

>sp|Q4W5P6|TM155\_HUMAN Protein TMEM155 OS=Homo sapiens GN=TMEM155 PE=2 SV=3  
MASDLIRTI LAVALISKLTAVDAELMPSGAILQNKRENLPVCHALFLGMARCQDLFL  
VRLQGWLKTRFQDGRSTPQEEGGSPQRKRGPVQIHFLKSLSSPITFAFISLARTV  
SLATAICKIV

>sp|Q9H0V1|TM168\_HUMAN Transmembrane protein 168 OS=Homo sapiens GN=TMEM168 PE=2 SV=2  
MCKSLRYCFSHCLYLAMTRLEEVNREVMHSSVRYLGYLARINLLVAICLGLYVRWEKTA  
NSLILVIFILGLFVLGSIILYFYFSMEAASLSLSNLWFGFLGLLCFLDNSSFKNDVKE  
ESTKYLLLTISIVLRILCSLVERISGYVRHRPTLLTTVEFLELVGFIASTTMLVEKSLSV  
ILLVVALAMLIIDLRMKSFLAIPNLVIFAVLLFFSSLETPKNPIAFACFFICLITDPFLD  
IYFSGLSVTERWKPFYRGRICRRLSVVFAGMIELTFFILSAFKLRDTHLWYFVIPGFSI  
FGIFWMICHIIIFLLTLWGFHTKLNCHKVYFTHRTDYNLDRIMASKGMRHFCLISEQLV  
FFSLLATAILGAVSWQPTNGIFLSMFLIVLPLESMAGLGHFELGNCLGGTSVGYAIVIPT  
NFCSPDQGPTLLPPEHVQELNLRSTGMLNAIQRFFAYHMIETYGCDYSTSGLSFDTLHSK  
LKAFLELRVDGPRHDTYILYSGHHTGTGEWALAGDTRLRLDTLIEWWREKNGSFCSRL  
IIVLDSNSTPWVKEVRKINDQYIAVQGAELIKTVDIEEADPPQLGDFTKDWVEYNCSS  
NNICWTEKGRTVKAVYGVSKRWSYTLHLPTGSDVAKHWMLHFPRITYPLVHLANWLCGL  
NLFWICKTCFRCLKRLKMSWFLPTVLDTGQGFKLKVS

>sp|Q53S58|TM177\_HUMAN Transmembrane protein 177 OS=Homo sapiens GN=TMEM177 PE=2 SV=1  
MAGPLWRTAAAFVQRHRTGLLVGSCAGLFGVPISYHLFPDPVVQWLYQYWPPQGQPAPLPPQ  
LQSLFQEVLQDIGVPSGHYCKPFTTFTFPVVSAGFPRLPAGAVVGIPASFLGDLVINTNH  
PVVIHGHTVDWRSPAGARLRASLTLSREAQKFALAREVVYLESSTAVHALLAPACLAGT  
WALGVGAKYTLGLHAGPMNLRAAFSLVAAGFVAYAFSQDSLTHAVESWLDRTASLSA  
AYACGGVEFYEKLLSGNLALRSLLGKDGEKLYTPSGNIVPRHLFRIKHLPYTTTRDSVLQ  
MWRGMLNPGRS

>sp|Q66K66|TM198\_HUMAN Transmembrane protein 198 OS=Homo sapiens GN=TMEM198 PE=1 SV=1  
MPGTVATLRFQLLPPEPDDAFWGAPCEQPLERRYQALPALVCIMCCLFGVVYCFGYRCF  
KAVLFLTGLLFGSVVIFLLCYRERVLETQLSAGASAGIALGIGLLCGLVAMLVRSVGLFL  
VGLLLGLLLAAAALLGSAPYYQPGSVWGPLGLLLGGGLLCALLTLRWRPLTTLATAVTG  
AALIATAADYFAELLLLGRYVVERLRAAPVPPLCWRSWALLALWPLLSLMGVLVQWRVTA  
EGDSHTEVVISRQRRRVQLMRIRQQEDRKEKRRKKRPPRAPLRGPRAPPRPGPPDPAYRR  
RPVPIKRFNGDVLSPSYIQSFRDRQTGSSLSFMSPTDADYEYGSRGPLTACSGPPVRV

>sp|Q8N511|TM199\_HUMAN Transmembrane protein 199 OS=Homo sapiens GN=TMEM199 PE=1 SV=1  
MASSLLAGERLVRALGPGGELEPERLPRKLRAELEAALGKKHKGGDSSSGPQRLVSFRLI  
RDLHQHLRERDSKLYLHELLEGSEIYLPEVVKPPRNPELVARLEKIKIQLANEYKRITR  
NVTCQDTRHGGTSLDLGKQVRSKLALVITIFNFIVTVVAAFVCTYLGSIYFTEMASRVL  
AALIVASVVGLAELYVMVRAMEGELGEL

>sp|Q969S6|TM203\_HUMAN Transmembrane protein 203 OS=Homo sapiens GN=TMEM203 PE=1 SV=1  
MLFSLRELQWLGFATFEIFVHLLALLVFSVLLALRVDGLVPGLSWNVFVPFFAADGLS  
TYFTTIVSVRLFQDGEKRLAVLRLFWVLTVLSLKVFVEMLLCQKLAEQTRELWFGLITSP  
LFILLQLLMIRACRVN

>sp|Q6UW68|TM205\_HUMAN Transmembrane protein 205 OS=Homo sapiens GN=TMEM205 PE=1 SV=1  
MEEGGLGGLIKMVHLLVLSGAWGMQMWVTFVSGFLLFRSLPRHTFGLVQSKLFPFYFHI  
SMGCAFINLCILASQHAWAQLTFWEASQLYLLFSLTLATVNARWLEPRTTAAMWALQTV  
EKERGLGGEVPGSHQGPDPYRQLREKDPKYSALRQNFYHGLSSLCNLGCVLSNGLCLA  
GLALEIRSL

>sp|Q9H813|TM206\_HUMAN Transmembrane protein 206 OS=Homo sapiens GN=TMEM206 PE=1 SV=1  
MIRQERSTSYQELSEELVQVENSELADEQDKETVRVQGPGLPGLDSESASSSIRFSKA  
CLKNVFSVLLIFIYLLLMVAVFLVYRTITDFREKLKHPVMSVSYKEVDYDAPGIALYP  
GQAQLLSCKHHYEIPPLTSPGQPGDMNCTTQRINYTDPFNSQTVKSALIVQGPREVKKR  
ELVFLQFRLNKSSDFSAIDYLLFSSSQEFLQSPNRVGMQACESAYSSWKFSGGFRTWV  
KMSLVKTEEDGREAVEFRQETSVVNYIDQRPAAKKSAQLFFVVFWEKDPFIQKVQDIVT  
ANPWNTIALLCGAFLALFKAAEFALKSIKWMIKIRKRYLKRRGQATSHIS

>sp|Q9BTX3|TM208\_HUMAN Transmembrane protein 208 OS=Homo sapiens GN=TMEM208 PE=1 SV=1  
MAPKGKVGTRGKKQIFEENRETLKFYLRIILGANAIYCLVTLVFFYSSASFWAWLALGFS  
LAVYGASYHSMSSMARAAFSFDGALMDGGMDLNMEQGMAEHLKDVILLTAIVQVLSCFSL  
YVWSFWLLAPGRALYLLWVNVLPWFADSGTPAPEHNEKRQRRQERRQMKRL

>sp|Q96SK2|TM209\_HUMAN Transmembrane protein 209 OS=Homo sapiens GN=TMEM209 PE=1 SV=2  
MMQGEAHPASALIDRTIKMRKETEARKVVLAWGLLVSMAGMIYTEMGKLISYYNVTY  
WPLWYIELALASLFSNLALFDFWRYFKYTVAPTSLVVSPGQQTLGLKTAVVQTTPPHDL  
AATQIPPAPSPSIQGSVLSYSPSRSPSTSPKFTTSCMTGYSPQLQGLSSGSGSYSPG  
VTYSPVSGYNKLASFSPSPSPYPTTVGPVESSGLRSRYRSSPTVYNSPTDKEDYMTDLR

TLDTFLRSEEEKQHRVKLGSPDSTSPSSSPTFWNYSRSMGDYAQTLKKFQYQLACRSQAP  
CANKDEADLSSKQAAEEVWARVAMNRQLLDHMSWTAKFRWINETILVPLVQEIESVST  
QMRRMGCPQLQIGEASITSLKQAALVKAPLIPTLNTIVQYLDLTPNQEYLFERIKELSQG  
GCMSSFRWNRGGDFKGRKWDTLPTDSAIIMHVCTYLD SRLPPHPKYPDGKTFTSQHFV  
QTPNKPVDVTNENVFCIYQSAINPPHYELIYQRHVYNLPKGRNNMFHTLLMFLYIIKTKES  
GMLGRVNLGLSGVNILWIFGE

>sp|Q6IC10|TM211\_HUMAN Transmembrane protein 211 OS=Homo sapiens GN=TMEM211 PE=2 SV=2  
MLSSVWVALGLSLTCTSAFSLISPAWFQTPTFSGILTYCSWPQGNSWNQSCVTFSSLED  
IPDFAWKVSAMVLLGGWLLAFNAIFLLSWAVAPKGLCPRSSVPMGPVQAVAATAMIVG  
LLIFPIGLASPFIKEVCEASSMYGKCR LGWGYMTAILNAVLASLLPIISWPHTTKVQG  
RTIIFSSATERIIFVPEMNK

>sp|AOPJW6|TM223\_HUMAN Transmembrane protein 223 OS=Homo sapiens GN=TMEM223 PE=1 SV=1  
MAAPWRRWPTGLLAVLRPLLCRPLQGTTLQRDVLLFEHDRGRFFITLGLFCAGQGVFWA  
SMAVAASVRPPVPVQPLDAEVPNRGPFDLRSALWRYGLAVGCGAIGALVLGAGLLFSLRS  
VRSVLRAGGQQVTLTTHAPFGLGAHFTVPLKQVSCMAHRGEVPAMLPLKVKGRRFYFL  
DKTGHPNTKLF DNTVGAYRSL

>sp|Q6GV28|TM225\_HUMAN Transmembrane protein 225 OS=Homo sapiens GN=TMEM225 PE=2 SV=1  
MVHVSNRSIQGMNILFSSWAVVLMVMGITLDKVVELISEDERAKMNHSPWMMCCPALWPE  
DDLKVVIRIMTSSLGLSFLNLILGMKFITYLPQNKYIQLFTTILSFFSGISLLWALILY  
HNKLGQGGSMHFSNYRITWIMYTAYLVNFFLSVCGVLSLECKLSTSSCTCLNIHKSDNE  
CKESENSIEDISLPECTAMPRIVRAHTVNSLNKKVQTRHVTWAL

>sp|Q9H6L2|TM231\_HUMAN Transmembrane protein 231 OS=Homo sapiens GN=TMEM231 PE=1 SV=1  
MALYELFSHPVERSYRAGLCSKAALFLLAAALTYIPPLLVAFRSHGFWLKRSSYEEQPT  
VRFQHQVLLVALLGPESDGFLAWSTFPFNLRLQGDRLRVPLVSTREEDRNQDGKTDMLHF  
KLELPLQSTEHVLGVQLILTFSYRLHRMATLVMQSMFLQSSFPVPGSQLYVNGDLRLQQ  
KQPLSCGGLDARYNISVINGTSPFAYDYDLTHIVAAYQERNVTTVLNDPNPIWLVGRAAD  
APFVINAIIRYPVEVISYQPGFWMVKFAWVQYVSILLIFLWVFERIKIFVFQNVVTTI  
PVTVTPRGDLCKEHL

>sp|Q9NWH2|TM242\_HUMAN Transmembrane protein 242 OS=Homo sapiens GN=TMEM242 PE=1 SV=1  
METAGAATGQPASGLEAPGSTNDRLFLVKGGLFLGTVAAGMLAGFITLSLAKKKSPEW  
FNKGSMAAALPESGSSALRALGWGSLYAWCGVVISFAVWKALGVHSMNDFRSKMQSI  
FPTIPKNSESAVEWEETLKS

>sp|Q9H330|TM245\_HUMAN Transmembrane protein 245 OS=Homo sapiens GN=TMEM245 PE=1 SV=2  
MADGGGPKDAPSLRSSPGPAPRVPRAVGPSGGGETPRTAALALRFDKPIKQAFYNTGAV  
LFVCLCCGA AVLVF ILEAFRLPLLWAVLCGTFLHPFKSSLTRLGRHWLQRLHRAHTPIV  
LAALLPLCFVDYGEALGEQALRRRRLLLLGAGGPLLYGLYCLGSYLGVQVLLVHAAT  
LICRGLDYFSSLWIWTLVVGYYLTVSFKWNASTERYLRAVSIPVWIIILLFHLASLAGSWR  
IPVFLVIVFLMSVGTLYEKQNGKESSGAELPGQVISMAASTLANLAISITGYESSSEDQP  
STQPAEAVDRGESAPTLSTSPSPSSPSPTSPSPTLGRRRPEIGTFLRKKKTSDIYFVSLV  
WAIVMQIWLNLWIVQLLPVPIAVWILKKLVIFHGVVDFLEKRYHVWWGIIIESFLKERQG  
ALAPWPIVGLGKFLKVD SKLWHWLNKKMIWLEKMLDKIISIFIIFLLVIGTLLALLL  
TAKVHQESVHMIEVTSNLINELANHPEWANWLPEAQVVQRALNSAANNVYQYGREWIT  
KLHKILGDKVNNTAVIEKQVLELWDRLYHSWFVKNVTHSGRHKGQKLHVSQRQNSWLGDI  
LDWDQDIVSFVHENIETFLSILESLWIVMSRNVSLFTT VTTLTILFYSGTALLNFVLSLI

IFLTTLFYLLSSSDEYYKPVKWVISLTPLSQPGPSSNIIGQSVEEAIRGVFDASLKMAGF  
YGLYTWLTHTMFGINIVFIPSALAAILGAVPFLGTYWAAVPAVLDLWLTQGLGCKAILLL  
IFHLLPTYFVDTAIVSDISGGHPYLTGLAVAGGAYYLGLEGATIGPILLCILVVASNIY  
SAMLVSPTNSVPTPNQTPWPAQPQRTRDISERSEIFSKVDVSSAVIFLRKFKFDSEFS  
SAVAFCPSSCA

>sp|A6NEH6|TM247\_HUMAN Transmembrane protein 247 OS=Homo sapiens GN=TMEM247 PE=4 SV=2  
MAAEDREMMEARGAGESCPTFPKMVPGDSKSEKPRAYLEAESQKPDSSYDYLEEMEACE  
DGGCQGPLKSLSPKSCRATKGQAGDGPKPAELPPTPGTERNPEMELEKVRMEFELTRLKY  
LHEKNQRQRQHEVVMELQQRERQHEVVMELQQEAAPRLFSGGLQNFLLPQNQFAMFLYC  
FIFIHIIYVTKEMVFFLFAKHLYFCIAAILLCIKTFWS

>sp|Q2WGJ8|TM249\_HUMAN Transmembrane protein 249 OS=Homo sapiens GN=TMEM249 PE=2 SV=1  
MPKGRAGSLPTTSIGWRFQLWFLGLTCPERHLARRLKNNSFYPFVQQEPNVFVLEYLDT  
LWKGMLLFIIISVVLVSFSSLREVQKQETWVFLVYGVGVGLWLVISLPRRRLVLNHRGV  
YHFSIQGRTVCQGPLHLVYVRLALSSDAHGRCFHLLVLGGHRLEPLVLVQLSEHYEQMEY  
LGRYIARKLNINIFYDLATSYRHVVRHWPPGAGTVMGKSPMGHKPSSSQSSLEV

>sp|Q8N6I4|TM251\_HUMAN Transmembrane protein 251 OS=Homo sapiens GN=TMEM251 PE=2 SV=4  
MPKPPDYSELSDSLTAVGTGRFSGPLHRAWMMNFRQRMGWIGVGLYLLASAAAFYYVF  
EISETYNRLALEHIQQHPPEEGTTWTHSLKAQLLSLPFWWTIVFLVPYLMFLFLYS  
CTRADPKTVGYCIIPICLAVICNRHQAFVKASNQISRLQLIDT

>sp|Q8N2U0|TM256\_HUMAN Transmembrane protein 256 OS=Homo sapiens GN=TMEM256 PE=3 SV=1  
MAGPAAAFRRLGALSGAAALGFASYGAHGAQFPDAYGKELFDKANKHHFLHSLALLGVPH  
CRKPLWAGLLLASGTTLFCTSFYYQALSGDPSIQTLAPAGGTLTLLGLWALAL

>sp|O96002|TM257\_HUMAN Transmembrane protein 257 OS=Homo sapiens GN=TMEM257 PE=2 SV=1  
MYSRLFYLKSSYIIYFEPLFSNAIINILSFINSLASPLTIFCFALSAQALSTIFYFRIFI  
FIFHSWILLFHFYFTCSFKTYEHQHSKMVPAYRMQSPRALPRTYLYVWPYK

>sp|Q9NX78|TM260\_HUMAN Transmembrane protein 260 OS=Homo sapiens GN=TMEM260 PE=2 SV=3  
MSPHGDGRGQAQGRAVRVGLRRSGGIRGGVAVFAAAVAVFTFTLPPSVPGDSGELITAA  
HELGVAHPPGYPLFTLVAKLAITLFPFGSIAYRVNLLCGLFGAVAASLLFFTTFRLSGSS  
AGGILAAGVFSFSRLTWQWSIAAEVFSLNNLFVGLLMALTVHFEEAATAKERSKVAKIGA  
FCCGLSLCNQHTIIILYVLCIIPWILFQLKKKELSLGSLKLSLYFSAGLLPYVHLPIS  
YLNHARWTWGDQTTLQGFLTHFLREEYGTFSKASEIGSSMSEILLSQVTNMRTELSFNI  
QALAVCANICLATKDRQNPSLVWLTGMFCIYSLFFAWRANLDISKPLFMGVVERFWMQS  
NAVVAVLAGIGLAHVSETNRVLNSNGLQCLEWLSATLFFVYQIYSNYSVCDQRTNYVID  
KFAKNLLTSMPHDAIILLRGDLPGNLSRYMHYCEGLRPDISLVDQEMMTYEWYLPKMAKH  
LPGVNFPGNRWNPVEGILPSGMVTFNLYHFLEVNKQKETFVCIGIHEGDPTWKKNYSLWP  
WGSCDKLVPLEIVFNPEEWIKLTKSIYNWTEEYGRFDPSSWESVANEEMWQARMKTPFFI  
FNLAETAHMPKSKVKAQLYAQAYDLYKEIVYLQKEHPVNWKNYAIA CERMLRLQARDADP  
EVLLSETIRHFRLYSQKAPNDPQQADILGALKHLRKELQSLNRKNV

>sp|AOA087WTH1|TM265\_HUMAN Transmembrane protein 265 OS=Homo sapiens GN=TMEM265 PE=3 SV=1  
MEDEEKAVEILGNTEAAHPPSPIRCCWLRRLRCLAATSIIICGCSCSLGVMALVFAIKAEERH  
KAGRSEEA VRWGARARKLILASFAVWLAVLILGPLLLWLSYAIAQAE

>sp|Q5VZI3|TM268\_HUMAN Transmembrane protein 268 OS=Homo sapiens GN=TMEM268 PE=2 SV=1  
MACEPQVDPGATGPLPPSSPGWSALPGGSPPGWGQELHNGQVLTVLRIDNTCAPISFDLG  
AAEEQLQTWGIQVPADQYRSLAESALLEPQVRRYIIYNSRPMRLAFAVVFYVVVWANIYS

TSQMFALGNHWAGMLLVTLAAVSLTLTLVLVFERHQKKANTNTDLRLAAANGALLRHRVL  
LGVTDTVEGCQSVIQLWFVYFDLENCVQFLSDHVQEMKTSQESLLRSRLSQLCVVMETGV  
SPATAEGPENLEDAPLLPGNSCPNERPLMQTELHQLVPEAEPEEMARQLLAVFGGYIIRL  
LVTSQLPQAMGTRHTNSPRIPCPCQLIEAYILGTGCCPFLAR

>sp|Q9NWC5|TM45A\_HUMAN Transmembrane protein 45A OS=Homo sapiens GN=TMEM45A PE=2 SV=1  
MGNFRGHALPGTFFFIIGLWWCTKSILKYICKKQKRTCYLGSKTLFYRLEILEGITIVGM  
ALTGMAGEQFIPGGPHMLLYDYKQGHWNQLLGWHHFTMYFFFGLGVADILCFTISSLPV  
SLTKLMLSNA LFVEAFIFYNHHTGREMLDIFVHQLLVLVVFLTGLVAFLEFLVRNNVLE  
LLRSSLLILQGSWFFQIGFVLYPPSGGPAWDLMDHENILFLTICFCWHYAVTIVIVGMNY  
AFITWLKSRKRLCSSEVGLLKNAEREQESEEM

>sp|Q4KMG9|TM52B\_HUMAN Transmembrane protein 52B OS=Homo sapiens GN=TMEM52B PE=2 SV=1  
MGVRVHVVAASALLYFILLSGRCEENCGNPEHCLTTDWWHLWYIWLLVIGALLLLCGL  
TSLCFRCCCLSRQQNGEDGGPPPCEVTVIAFDHDSLQSTITSLQSVFGPAARRILAVAH  
SHSSLGQLPSSDLTPGYEEALHMSRFTVAMCGQKAPDLPPVPEEKQLPPTKESTRIVD  
SWN

>sp|075069|TMCC2\_HUMAN Transmembrane and coiled-coil domains protein 2 OS=Homo sapiens  
GN=TMCC2 PE=1 SV=3

MKRCRSDLELQQQQGEEDGAGLEDAASHLPGADLRPGETTANSAGGPTSDAGAAAAPNPG  
PRSKPPDLKKIQQLESGSMFGHGLKHLFHSRRRSREREHQTSQDSQQHQQQQGMSDHDSP  
DEKERSPEMHRVSYAMSLHDLPARPTAFNRVLQQIRSRSIKRGASLHSSSGGSSGSSS  
RRTKSSSLEPQRGSPHLLRKAPQDSSLAAILHQHQCRRSSSTTDTALLADGSNVYLLA  
EEAEGIGDKVDKDLVALSLPAGHGD TDGPISLDVPDGAPDPQRTKAAIDHLHQKILKIT  
EQIKIEQEARDNDVAEYLLKANNADKQQVSRIKQVFEKKNQKSAQTIAQLHKKLEHYRRR  
LKEIEQNGPSRQPKDVL RDMQGLKDVGANVRAGISGFGGGVVEGVKGSLSGLSQATHTA  
VVSKPREFASLIRNKFSGADNIAHLKDPLEDGPPEEAARALSGSATLVSSPKYGSDDACS  
SASASSAGAGSNGAGPGGALGSPKSNALYGAPGNLDALLEELREIKEGQSHLEDSMEDL  
KTQLQRDYTYMTQCLQEERYRYERLEEQLNDLTELHQNEMTNLKQELASMEKVAYQSYE  
RARDIQEAVESCLTRVTKLELQQQQQVQLEGVENANARALLGKFINVILALMAVLLVF  
VSTIANFITPLMKTRLRITSTLLVLVFLWLKHWDSLTYLLEHVLLPS

>sp|Q9UM00|TMC01\_HUMAN Calcium load-activated calcium channel OS=Homo sapiens GN=TMC01  
PE=1 SV=1

MSTMFADTLLIVFISVCTALLAEGITWVLVYRTDKYKRLKAEVEKQSKKLEKKKETITES  
AGRQQKKKIERQEEKLKNNNRDLMSVRMKSMAFAGFCFTALMGMFNSIFDGRVVAKL PFT  
PLSYIQGLSHRNLLGDDTTDCSFIFLYILCTMSIRQNIQKILGLAPSRAATKQAGGFLGP  
PPPSGKFS

>sp|Q6PL24|TMED8\_HUMAN Protein TMED8 OS=Homo sapiens GN=TMED8 PE=1 SV=1

MSDLQAAEGPGSWSPARP GSAGGVGDCQGVESQAAAASENEDLENKDTSLLASATDPEP  
CSSPHRPQMVS PVS KDATEDLRKATGPLEAQALVKQDLLPADQAQVLNEMAKYQVPQRSG  
DIVMIQSEHTGAIDVLSADLESADLLGDRKVS PPLMAPPCIWTFKVKEFKSKLGKEKN  
SRLVVKRGEVVTIRVPTHPGKRVCWEFATDDYDIGFGVYFDWTPVTSTDITVQVSDSSD  
DEDEEEEEEEEEIEEPVPAGDVERGSRSSLRGRYGEVMPVYRRDSHRDVQAGSHDYPGEGI  
YLLKFDNSYSLLRNKTLYFHIIYTS

>sp|Q9BQJ4|TMM47\_HUMAN Transmembrane protein 47 OS=Homo sapiens GN=TMEM47 PE=1 SV=1  
MASAGSGMEEVRVSVLTPLKLVGLVCIFLALCLDLGAVLSPA WVTADHQYYLSLWESCRK

PASLDIWHCESTLSSDWQIATLALLLGGAAIILIAFLVGLISICVGSRRRFYRPVAVMLF  
AAVVLQVCSLVLYPIKFIETVSLKIYHEFNWGYGLAWGATIFSFGGAILYCLNPKNYEDY  
Y

>sp|Q96MV1|TMM56\_HUMAN Transmembrane protein 56 OS=Homo sapiens GN=TMEM56 PE=1 SV=1  
MEINTKLLISVTCISFFTFQLLFYFVSYWFSAKVSPGFNSLSFKKKIEWNSRVVSTCHSL  
VVGIFGLYIFLFDEATKADPLWGGPSLANVNIAIASGYLISDLSIIILYWKVIGDKFFIM  
HHCASLYAYYLVKNGVLAYIGNFRLLAELSSPFVNQRWFFEALKYPKFSKAIVINGILM  
TVVFFIVRIASMLPHYGMYSVYGTEPYIRLGVLILQLSWVISCVVLDVMNMVMMIKISKG  
CIKVISHIRQEKAKNSLQNGKLD

>sp|Q6ICL3|TNG2\_HUMAN Transport and Golgi organization protein 2 homolog OS=Homo sapiens  
GN=TANGO2 PE=1 SV=1  
MCIIFFKFDPRPVSKNAYRLILAAANRDEFYSRPSKLADFWGNNNEILSGLDMEEGKEGGT  
WLGISTRGKLAALTNYLQPQLDWQARGRGELVTHFLTDDVDSL SYLKKVSMEGHLYNGFN  
LIAADLSTAKGDVICYYGNRGEPPDIVLTPGTGYLSNALLETPWRKLCFGKQLFLEAVER  
SQALPKDVLIASLLDVLNNEEAQLPDPAIEDQGGEYVQPMLSKYAAVCVRCPGYGTRTNT  
IILVDADGHVTFTERSMMDDKDLSHWETRTRYEFTLQS

>sp|P45378|TNNT3\_HUMAN Troponin T, fast skeletal muscle OS=Homo sapiens GN=TNNT3 PE=1  
SV=3  
MSDEEVEQVEEQYEEEEEAQEEAAEVHEEVHEPEEVQEDTAEEDAEEEEKPRPKLTAPKIP  
EGEKVDFDDIQKKRQNKDLMELQALIDSHFEARKKEEEELVALKERIEKRAERAEEQQRI  
RAEKERERQNRLAEERKEEDAKRRAEDDLKKKKALSSMGANYSSYLAQADQKRGKKQ  
TAREMKKKILAERRKPLNIDHLGEDKLRDKAKELWETLHQLEIDKFEFGEKLRQKYDIT  
TLRSRIDQAQKHSKAGTPAKGKVGGRWK

>sp|P08138|TNR16\_HUMAN Tumor necrosis factor receptor superfamily member 16 OS=Homo  
sapiens GN=NGFR PE=1 SV=1  
MGAGATGRAMDGPRLLLLLLLLLGVSLGGAKEACPTGLYTHSGECCACNLGEGVAQPCGAN  
QTVCEPCLDSVTFSDVVSATEPCKPCTECVGLQSMSAPCVEADDAVCRCAYGYYQDETTG  
RCEACRVCEAGSLVFSCQDKQNTVCEECPDGTYSDEANHVDPCLPCTVCEDTERQLREC  
TRWADAEECEEIPGRWITRSTPPEGSDSTAPSTQEPEAPPEQDLIASTVAGVVTVMGSSQ  
PVVTRGTTDNLIPVYCSILA AAVVGLVAYIAFKRWNSCKQNKQANSRPVNQTPPEGEK  
LHSDSGISVDSQSLHDQQPHTQTASGQALKGDGGLYSSLPPAKREEVEKLLNGSAGDTWR  
HLAGELGYQPEHIDSFTHEACPVRALLASWATQDSATLDALLAALRRIQRADLVESLCSE  
STATSPV

>sp|Q9HAV5|TNR27\_HUMAN Tumor necrosis factor receptor superfamily member 27 OS=Homo  
sapiens GN=EDA2R PE=1 SV=2  
MDCQENEYWDQWGRVCVCRCGPGQELSKDCGYGEGDAYCTACPPRRYKSSWGHHCQS  
CITCAVINRVQKVNCTATSNVCGDCLPRFYRKTRIGGLQDQECIPCTKQTPTSEVQCAF  
QLSLVEADTPTVPPQEATLVALVSSLLVVFTLAFLGLFFLYCKQFFNRHCQRGGLLQFEA  
DKTAKEESLFPVPPSKETS AESQVSENIFQTQPLNPILEDDCSSTSGFPTQESFTMASCT  
SESHSHVWHSPIECTELDLQKFSSSASYTGAETLGNTVESTGDRLELNVFPFEVPS

>sp|Q5JTV8|TOIP1\_HUMAN Torsin-1A-interacting protein 1 OS=Homo sapiens GN=TOR1AIP1 PE=1  
SV=2  
MAGDGRRAEAVREGWGVYVTPRAPIREGRGRLAPQNGGSSDAPAYRTPPSRQGRREVRFS  
DEPPEVYGD FEPLVAKERSPVGKRTRLEEFRSDSAKEEVRESAYYLRSRQRRQPRPQETE



EMKTRRTTRLQQQHSEQPPLQSPVMTRRGLRDSHSSEDEASSQTDLSQTISKKTVRSI  
QEAPVSEDLVIRLRRPPLRYPRYEATSVQQKVNFSSEGETEEDDQDSSHSSVTTVKARSR  
DSDESGDKTTRSSSQYIESFWQSSSQSNFTAHDKQPSVLSSGYQKTPQEWAPQTARIRTR  
MQNDSILKSELGNQSPSTSSRQVTGQPQNASFVKRNRWLLPLIAALASGSFWFFSTPEV  
ETTAVQEFQNMNQLKNKYQGQDEKLWKRSQTFLEKHLNSSHPRSQPAILLTAARDAEE  
ALRCLSEQIADAYSSFRSVRAIRIDGTDKATQSDSTVKLEVDQELSNQFKNGQNAAVVHR  
FESFPAGSTLIFYKYCDHENAFAFKDVALVLTVLLEETLGTSLGLKEVEEKVRDFLKVVF  
TNSNTPNSYNHMDPKLNLWSRISHLVLPVQPENALKRGICL

>sp|O14773|TPP1\_HUMAN Tripeptidyl-peptidase 1 OS=Homo sapiens GN=TPP1 PE=1 SV=2

MGLQACLLGLFALILSGKCSYSPEPDQRRTLPPGWVSLGRADPEEELSLTFALRQQNVER  
LSELVQAVSDPSSPYGKYLTLENVADLVRPSPLTLHTVQKWLLAAGAKCHSVITQDFL  
TCWLSIRQAELLLPGAEFHHYVGPTETHVVRSPHPYQLPQALAPHVDFVGGLHRFPPTS  
SLRQRPEPQVTGTVGLHLGVTPSVIRKRYNLTSQDVGSGTSNNSQACAQFLEQYFHSDL  
AQFMRFLFGGNFAHQASVARVVGQGRGRAGIEASLDVQYLSAGANISTWVYSSPGRHEG  
QEPFLQWLMLLSNESALPHVHTVSYGDDDSLSSAYIQRVNTELMKAAARGLTLLFASGD  
SGAGCWSVSGRHQFRPTFPASSPYVTTVGGTSFQEPFLITNEIVDYISGGGFSNVFPRPS  
YQEEAVTKFLSSSPHLPSSYFNASGRAYPDVAALSDGYVWVSNRVPWPVSGTSASTPV  
FGGILSLINEHRILSGRPPLGFLNPRLYQQHGAGLFDVTRGCHESCLDEEVEGQGFCSGP  
GWDPTGWGTPNFPALLKTLNLP

>sp|Q4KMQ1|TPRN\_HUMAN Taperin OS=Homo sapiens GN=TPRN PE=1 SV=2

MAALGRPGSGPRAAVPAWKREILERKRAKLAALGGGAGPGAAPEQRVLAESLGPLREN  
FMLLEAERRRGGAAGARLLERYRRVPGVRALRADSVLI IETVPGFPPAPPAGAAQIRA  
AEVLVYGAPPGRVSRLLERFDPPAAPRRRGSPERARPPPPPPPPAPPRPPPAAPSPPAAP  
GPRGGGASPGARRSDFLQKTGSNSFTVHPRGLHRGAGARLLSNGHSAPEPRAGPANRLAG  
SPPGSGQWKPKVESGDP SLHPPSPGTPSATPASPPASATPSQRQCVSAATSTNDSFEIR  
PAPKPMETIPLGDLQARALASLRANSRNSFMVIPKSKASGAPPPEGRQSVELPKGDLGP  
ASPSQELGSQPVPGDGAPALGKSPLEVEAQWAVEEGACPRTATALADRAIRWQRPSSPP  
PFLPAASEEAPEAGLRVPLAKNSREYVRPGLPVTFIDEVDSEEAPQAAKLPLYLPHPAR  
PLHPARPGCVAELQPRGSNTFTVVPKRKPGTLQDQHFSQANREPRPREAEEEEASCLLGP  
TLKKRYPTVHEIEVIGGYLALQKSCLTKAGSSRKKMKISFNDKSLQTTFEYPSSESSLEQE  
EEVDQQEEEEEEEEEEEEEGSGSEEKPFALFLPRATFVSSVRPESSRLPEGSSGLSSY  
TPKHSVAFSKWQEQALEQAPREAEPPEAMLT PASQNDLSDFRSEPALYF

>sp|P12270|TPR\_HUMAN Nucleoprotein TPR OS=Homo sapiens GN=TPR PE=1 SV=3

MAAVLQQVLERTELNKLPKSVQNKLEKFLADQQSEIDGLKGRHEKFKVESEQQYFEIEKR  
LSHSQERLVNETRECQSLRLELEKLNNQLKALTEKNKELEIAQDRNIAIQSQFTRTKEEL  
EAEKRDLI RTNERLSQELEYLTEDVKRLNEKLKESNTTKGELQLKDELQASDVSVKYRE  
KRLEQEKELLHSQNTWLNTTELKTKTDELLALGREKGNEIILELKCENLKKEEVSRLLEEQ  
NGLKTSNEHLQKHVEDLLTKLKEAKEQQASMEEFHNELNAHIKLSNLYKSAADDSEAKS  
NELTRAVEELHKLKEAGEANKATQDHLLEVEQSKDQMEKEMLEKIGRLEKELENANDLL  
SATKRKGAILSEEELAAMSPTAAAVAKIVKPGMKLTELYNAYVETQDQLLEKLENKRIN  
KYLDEIVKEVEAKAPILKRQREEYERAQKAVASLSVKLEQAMKEIQLQEDTDKANKQSS  
VLERNRMEIQVKDLSQQIRVLLMELEEARGNHVIRDEEVSSADISSSSEVISQHLVSY  
RNIEELQQQNQRLVALRELGETREREEQETTSSKITELQLKLESALTELEQLRKSQRHQ  
MQLVDSIVRQRDMYRILLSQTTGVAIPLHASSLDDVSLASTPKRPSTSQTVSTPAPVPVI

ESTEAIEAKAALKQLQEIFENYKKEKAENEKIQNEQLEKLQEQVTDLRSQNTKISTQLDF  
ASKRYEMLQDNVEGYRREITSHERNQKL TATTQKQEQI INTMTQDLRGANEKLAVA EVR  
AENLKKEKEMKLSEVRLSQQRESLLAEQRGQNL LLLTNLQTIQGILERSETETKQRLSSQ  
IEKLEHEI SHLKKKLENEVEQRHTLTRNLDVQLLDTKRQLDTETNLHLNTKELLKNAQKE  
IATLKQHL SNMEVQVASQSSQRTGKGQPSNKEDVDDLVSQLRQTEEQVNDLKERLKTSTS  
NVEQYQAMVTSLEESLNKEKQVTEEV RKNIEVRLKESA EFQTQLEKKLMEVEKEKQELQD  
DKRRAIESMEQQSELKKTLSVQNEVQEALQRASTALSNEQQARRDCQEAKI AVEAQN  
KYERELMLHAADVEALQAAKEQVSKMASVRQHLEETTQKAESQ LLECKASWEERERMLKD  
EVSKCVCRCEDEKQNRLLHDQIEKLSDKVVASVKEGVQGPLNVSLSEEGKSQEQILEIL  
RFIRREKEIAETRFEVAQVESLRYRQRVELLERELQELQDSLNAEREKVQVTAKTMAQHE  
ELMKTETMNVVMTNKMLREEKERLEQDLQMQAKVRKLELDILPLQEANAELSEKSGM  
LQAEEKLLEEDV KRWKARNQHLVSQQKDPDTEEYRKLLSEKEVHTKRIQQLTEEIGRLKA  
EIARSNASLTNNQNL IQSLKEDLNKVRTEKETIQKDLDAKI IDIQEKVKTITQVKKIGRR  
YKTQYEELKAQQDKVMETSAQSSGDHQQHVSQEMQELKETLNQAETKSKSLESQVENL  
QKTLSEKETEARNLQEQT VQLQSELSRLRQDLQDRTTQEEQLRQQITEKEEKTRKAIVAA  
KSKIAHLAGVKDQLTKENEELKQRNGALDQQKDEL DV RITALKSQYEGRISRLERELREH  
QERHLEQRDEPQEPSNKVPEQQRQITLKTTPASGERGIASTSDPPTANIKPTPVVSTPSK  
VTAAAMAGNKSTPRASIRPMVTPATVTNPTTPTATVMPTTQVESQEAMQSEGPVEHVPV  
FGSTSGSVRSTSPNVQPSISQPI LTVQQQTQATAFVQPTQQSH PQIEPANQELSSNIVEV  
VQSSPVERPSTSTAVFGTVSATPSSSLPKRTREEEEDSTIEASDQVSDDTVEMPLPKKLK  
SVTPVGTEEEVMAEESTDGEVETQVYNQDSQDSIGEGVTQGDYTPMEDSEETSQSLQIDL  
GPLQSDQQT TTTSSQDGQKGDDVIVIDSDEEEDDDENDGEHEDYEEDEEDDDDDDDDTG  
MGDEGEDSNEGTGSADGNDGYEADDAEGGDGTDPGTETEESMGGGEGNHRAADSQNSGEG  
NTGAAESSFSQEV SREQQPSSASERQAPRAPQSPRRPPHPLPPRLTIHAPPQELGPPVQR  
IQMTRRQSVGRGLQLTPGIGGMQQHFFDDEDRTVPSTPLVVP HRTDGF AEAIHSPQVAG  
VPRFRFGPPEDMPQTSSSHDLGLASQGGGLMYETPLFLAHEEESGGRSVPTTPLQVAA  
PVTVFTESTTSDASEHASQSVPMVTTSTGTLSTTNETATGDDGDEVFVEAESEGISSEAG  
LEIDSQQEEEPVQASDES DLPSTSQDPPSSSSVDTSSSQPKPFRVRVLQTTLRQGVGRGQ  
FNRQRGVSHAMGGRGGINRG NIN

>sp|Q9BX59|TPSNR\_HUMAN Tapasin-related protein OS=Homo sapiens GN=TAPBPL PE=1 SV=2

MGTQEGWCLLLCLALSGAAETKHPHAEQWRAVDVVLDCFLAKDGAHRGALASSED RARA  
SLVLKQVPVLDDGSL EFTDFQGGTLAQDDPPIIFEASVDLVQIPQAEALLHADCSGKEV  
TCEISRYFLQMTETT VKTAAWFMANMQVSGGGPSISLVMKTPRVTKNEALWHPTLNLPLS  
PQGTVRTAVEFQVMTQTQSLSFLLGSSASLDCGF SMAPGLDLISVEWRLQHKGRGQLVYS  
WTAGQGQAVRKGATLEPAQLGMARDASLTLPGLTIQDEGT YICQITTSLYRAQQIIQLNI  
QASPKVRLSLANEALLPTLICDIAGYYPLDVVVTWTREELGGSPAQVSGASFSSLRQSV  
GTYSISSSLTAEPGSAGATYTCQVTHISLEEPLGASTQVVP PERRTALGVIFASSLFLLA  
LMFLGLQRRQAPTGLGLLQAERWETTSCADTQSSHLHEDRTARVSQPS

>sp|O14836|TR13B\_HUMAN Tumor necrosis factor receptor superfamily member 13B OS=Homo sapiens GN=TNFRSF13B PE=1 SV=1

MSGLGRRRGRSRVDQEERFPQGLWTGVAMRSCPEEQYWDPLLGT CMSCKTICNHQSQR  
TCAAFCRSLSCRKEQGKFYDHLLRDCISCASICGHPKQCAYFCENKLRSPVNLPPELRR  
QRSGEVENNSDNGRYQGLEHRGSEASPALPGLKLSADQVALVYSTLGLCLCAVLC CFLV  
AVACFLKKRGDPCSCQPRSRPRQSPAKSSQDHAMEAGSPVSTSPEPVETCSFCFPECRAP

TQESAVTPGTPDPTCAGRWGCHTRTTVLQPCPHIPDSGLGIVCVPAQEGGPGA

>sp|Q9Y2W1|TR150\_HUMAN Thyroid hormone receptor-associated protein 3 OS=Homo sapiens  
GN=THRAP3 PE=1 SV=2

MSKTNKSKSGSRSSRSASRSRSRFSKSRSRSLRSRKRRLSSRSRSYSYPAHNR  
ERNHPRVYQNRDFRGHNRYRRPYFRGRNRFYFPWGQYNRGGYGNYSNWQNYRQAYSP  
RRGRSRSRSPKRRSPSPRSRSHSRNSDKSSSDRSRRSSSSRSSHRSRVESKRKSAKEK  
KSSSKDSRPSQAAGDNQGDEAKEQTFSGGTSQDTKASESSKPWPDATYGTGSASRASAVS  
ELSPRERSPALKSPLQSVVVRRRSPRPSVPKPSPLSSTSQMGSTLPSGAGYQSGTHQG  
QFDHSGSGLSPSKSPVGKSPSTGSTYGSSQKEESAASGGAAYTKRYLEEQTENGKDK  
EQKQNTNDKEKIKEKGSFSDTGLDGMKSDSFAPKTDSEKPFGRSQSPKRYKLRDDFEK  
KMADFHKEEMDDQDKDAKGRKESEFDDEPKFMSKVI GANKNQEEESGKWEGLVYAPPG  
KEKQRKTEEELEESFPERSKKEDRGKRSEGGHGRGFVPEKNFRVTAYKAVQEKSSSPPRK  
TSESRDKLGAKGDFPTGKSSFSITREAVNVNRMDSFDEDLARPSGLLAQERKLCRDLVHS  
NKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVTIVHHVKEHHFGSSGMLHERFTKYLKR  
GTEQEAANKKSPEIHRRIDISPTFRKHGLAHDEMKS PREPGYKAEGKYKDDPVDLRD  
IERRKKHKERDLKRGKSRESVDSRDSSHSRERSAEKTEKTHKGSKKQKKHRRARDRSRSS  
SSSSQSSHSYKAEETEETEEREESTTGFDKSR LGTKDFVGP SERGGGRARGTFQFRARG  
RGWGRGNYSNNNNNSNDFQKRNEEWDPEYTPKSKKYYLHDDREGE SDKWVSRGRG  
RGAFPRGRGRFMRKSSSTSPKWAHDKFSGEEGEIEDDES GTENREEKDNIQPTTE

>sp|Q9BVS5|TR61B\_HUMAN tRNA (adenine(58)-N(1))-methyltransferase, mitochondrial OS=Homo  
sapiens GN=TRMT61B PE=1 SV=2

MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRK  
APGAESCPSLPLSISDIGTGLSSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQGSE  
DPSMLSQAQSATEVEERHVSPSCSTSRERPFQAGELILAETGEGETKFKKLFRLNNFGLL  
NSNWGAVPFGKIVGKFPQGILRSSFGKQYMLRRPALEDYVVL MKRGTAITFPKDINMILS  
MMDINPGDTVLEAGSGGMSLFLSKAVGSQGRVISFEVRKDHHDLAKKNYKHWRDSWKL  
SHVEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTL PVFYPHLKHGGVCAVYV  
VNITQVIELLDGIRTCELALSC EKISEVIVRDWLVLAKQKNGILAQKVESKINTDVQLD  
SQEKIGVKGELFQEDDHEESHSDFPYGSFPYVARPVHWQPGHTAFLVKLRKVKPQLN

>sp|Q9BUZ4|TRAF4\_HUMAN TNF receptor-associated factor 4 OS=Homo sapiens GN=TRAF4 PE=1  
SV=1

MPGFDYKFLEKPKRRLLCPLCGKPMREPQVSTCGHRFCDTCLQEFLSEG VFKCPEDQLP  
LDYAKIYPDPELEVQVLGLPIRCIHSEEGCRWSGPLRHLQGH LNTCSFNVIPCPNRCPMK  
LSRRDLPAHLQHDCPKRRLKCEFCGCD FSGEAYESHEGMCPQESVY CENKCGARMMRRL  
AQHATSECPKRTQPCTYCTKEFVFDTIQSHQYQCPRLPVACPNQCGVGTVAREDLP GHLK  
DSCNTALVLCPFKDSGCKHRCPKLAMARHVEESVKPHLAMM CALVSRQRQELQELRRELE  
ELSVGSDGVLIWKISYGRRLQEAKAKPNLECFSPAFYTHKYGYKLQVSAFLNGNGSGEG  
THLSLYIRVLPGAFDNLEWPFARRVTFSLDDQSDPGLAKPQHVTET FHPDPNWNKFQKP  
GTWRGSLDESSLGFGYPKFISHQDIRKRN YVRDDAVFIRA AVELPRKILS

>sp|Q6Q0C0|TRAF7\_HUMAN E3 ubiquitin-protein ligase TRAF7 OS=Homo sapiens GN=TRAF7 PE=1  
SV=1

MSSGKSARYNRFSGGPSNLPTPDVTTGTRMETTFGPAFS AVTTITKADGTSTYKQHCRTP  
SSSSTLAYSPRDEEDSMPPISTPRRSDSAISVRS LHSESSMSLRSTFSLPEEEEEPEPLV  
FAEQPSVKLCCQLCCSVFKDPVITTCGHTFCRR CALKSEKCPVDNVKLT VVVNNIAVAEQ

IGELFIHCRHGCRVAGSGKPPIFEVDPRGCPFTIKLSARKDHEGSCDYRPVRCPNNPSCP  
PLLRMNLEAHLKECEHIKCPHSKYGCTFIGNQDTYETHLETCTRFEGLKEFLQQTDDRFE  
MHVALAQKDQEI AFLRSMLGKLESEKIDQLEKSLELKFVDLDENQSKLSEDLMEFRRDASM  
LNDELSHINARLNMGILGSYDPPQIFKCKGTFVGHQGPVWCLCVYSMGDLLFSGSSDKTI  
KVWDTCTTYKCQKTLEGHGDIVLALCIQGCKLYSGSADCTIIVWDIQNLQKVNTIRAHDN  
PVCTLVSSHNVLFSGSLKAIKVDIVGTELKLKELTGLNHWVRALVAAQSYLYSGSYQT  
IKIWDIRTLDCIHVLQTSGGSVYSIAVTNHHIVCGTYENLIHVWDIESKEQVRTLTGHVG  
TVYALAVISTPDQTKVFSASYDRSLRVWSMDNMICTQTLLRHQGSVTALAVSRGRLFSGA  
VDSTVKVWTC

>sp|Q9UPV9|TRAK1\_HUMAN Trafficking kinesin-binding protein 1 OS=Homo sapiens GN=TRAK1  
PE=1 SV=1

MALVFQFGQPVRAPLPLGLCHGKLIRTNACDVCNSTDLPEVEIISLLEEQLPHYKLRADT  
IYGYDHDWLHTPLISPDANIDLTTEQIEETLKYLCAERVGMKTNTYNDIDAVTRLLE  
EKERDLELAARIGQSLLKKNKTLTERNELLEQVEHIREEVSQRLHELSMKDELLQFYTS  
AAEESEPESVCSTPLKRNESSSVQNYFHLDSLQKKLKDEEENVLRSEASQLKTETIT  
YEEKEQQLVNDVCVELRDANVQIASISEELAKKTEDAARQQEEITHLLSQIVDLQKKAKA  
CAVENEELVQHLGAAKDAQRLTAELRELEDKYAECMEMLHEAQEELKNLRNKTMPNTTS  
RRYHSLGLFPMDSLAAEIEGTMRKELQLEEAESPDITHQKRVFETVRNINQVVKQRSSTP  
SPMNIPGSNQSSAMNSLLSSCVSTPRSSFYGSIDIGNVLDNKTNSIILETEAADLGNDER  
SKKPGTPGTPGSHDLETALRRLSLRRENYLSERRFFEEEQERKLQELAEKGELRSGSLTP  
TESIMSLGTHSRFSEFTGFSGMSFSSRSYLPEKLQIVKPLEGSATLHHWQQLAQPHLGGI  
LDPRPGVVTKGFRTLDVDLDEVYCLNDFEEDDTGDHISLPLATSTPVQHPETSAHHPGK  
CMSQTNSTFTFTTCRILHPSDELTRVTPSLNSAPTACGSTSHLKSTPVATPCTPRRLSL  
AESFTNTRESTTTMSTSLGLVWLLKERGISAAVYDPQSWDRAGRGSLLHSYTPKMAVIPS  
TPPNSPMQTPTSSPPSFEFKCTSPPYDNFLASKPASSILREVREKNVRSSSESQTDVSVSN  
LNLVDKVRRFVAKVNVNSGRAHVPTLTEEQGPLLCPGPAPALVPRGLVPEGLPLRCPT  
V TSAIGGLQLNSGIRNRSFPTMVGSSMQMKAPVTLTSGILMGAKLSKQTS LR

>sp|Q6PIZ9|TRAT1\_HUMAN T-cell receptor-associated transmembrane adapter 1 OS=Homo sapiens  
GN=TRAT1 PE=1 SV=1

MSGISGCPFFLWGLLALLGLALVISLIFNISHYVEKQRQDKMYSYSSDHTRVDEYYIEDT  
PIYGNLDDMISEPMDENCYEQMKARPEKSVNKMQEATPSAQATNETQMCYASLDHSVKGK  
RRKPRKQNTHFSDKDGDEQLHAIDASVSKTTLVDSFSPESQAVEENIHDDPIRLFGLIRA  
KREPIN

>sp|Q96BQ3|TRI43\_HUMAN Tripartite motif-containing protein 43 OS=Homo sapiens GN=TRIM43  
PE=1 SV=1

MDSDFSHAFQKELTCVICLNYLVDPTICCGHSFCRPCLCLSWEEAQSPANCPACREPS  
KMDFTKNILLKNLVTIARKASLWQFLSSEKQICGTHRQTKMFCDMDKSLLCLCSNSQE  
HGAHKHPIEEAAEEHREKLLQMRILWKKIQENQRNLYEEGRATFLWRGNVVLRAQMIR  
NEYRKLHPVLHKEEKQHLERLNKEYQEIFQQLQRSWVKMDQKSKHLKEMYQELMEMCHKP  
DVELLQDLGDIVARSESVLLHMPQPVNPELTAGPITGLVYRLNFRVEISFHFVETNHNI  
RLFEDVRSWMFRRGPLNSDRSDYFAAWGARVFSFGKHYWELVDNCDWALGVCNNSWIR  
KNSTMVNSEDI FLLLCLKVDNHFNLLTTSVPVPHYIEKPLGRVGVFLDFESGSVSFLNVT  
KSSLIWSYPAGSLTFPVRPFYTGHR

MASGVGAAFEELPHDGTCDCEPDEAPGAEVCRECGFCYRRHAEHRQKFLSHHLAEY  
VHGSQAWTPPADGEGAGKEEA EVKVEQERE IESEAGEESESEEESESEEESETEEESEDE  
SDEESEEDSEEE MEDEQESEA EEDNQE EGESAEAGETEA ESEFDP EIE MEA ERVAKRKCP  
DHGLDLSTYQCEDRQLICVLCPVIGAHQGHQLSTLDEAFEELRSKDSGGLKAAMI ELVER  
LKFKSSDPKVTRDQMKMFIQQEFKKVKVIADEEQKALHLVDIQEAMATAHVTEILADIQ  
SHMDRLMTQMAQAKEQLDTSNESAEPKAEGDEEGPSGASEEDT

MDGSGPFSCPICLEPLREPVTLPCGHNFCLACLGALWPHRGASGAGGPGGAARCPQCQP  
FPDGLQLRKNHTLSELLQLRQSGSGPGSGPPAPALAPEPSAPSALPSVPEPSAPCAPEPW  
PAGEEPVRCDACPEGAALPAALSCLSCLASFCPAHLGPHERSPALRGHRLVPPLRRLEES  
LCPRHLRPLERYCRAERVCLCEACAAQEHRGHELVPLEQERALQEAQSKVLSAVEDRMD  
ELGAGIAQSRRTVALIKSAAVAERERSRLFADAAAAALQGFTQVLGFIEEGEAAMLGRS  
QGDLRRQEEQRSRLSRARQNLQVPEADSVSFLQELLALRLALEDCGCGPGPPPRELSFT  
KSSQAVRAVRDMLAVACVNQWEQLRGPGGNEDGPQKLDSEADAEPQDLESTNLLSEAPR  
DYFLKFAYIVDLSDTADKFLQLFGTKGVKRVLCPINYPLSPTRFTHCEQVLGEGALDRG  
TYYWEVEIEGWVSMGVMAEDFSPQEPYDRGLGRNAHSCCLQWNGRSFSVWFHGLEAPL  
PHPFSPTVGVCLEYADRALAFYAVRDGKMSLLRRLKASRRRGIPASPIDPFQSRLDSH  
FAGLFTHRLKPAFFLESVDAHLQIGPLKKSCISVLKRR

MNFTVGFKPLLGDHSMNDLEKQLICPICLEMFSPVVILPCQHNLCRKCANDVFQASNP  
LWQSRGSTTVSSGGRFCPSRHEVVLDRHGVYGLQRNLLVENIDIYKQESSRPLHSKA  
EQHLMCEEHEEEKINIYCLSCVPTCSLCKVFGAHKDCVAPLPTIYKRQKSELSDGIAM  
LVAGNDRVQAVITQMEEVCQTIEDNSRRQKQLLNQRFESLCAVLEERKGELLQALAREQE  
EKLQRVRGLIRQYGDHLEASSKLVESAIQSMEEPQMALYLQQAELINKVGAMSKVELAG  
RPEPGYESMEQFTVRVEHVAEMLRTIDFQPGASGEEEEVAPDGEESGAGPEEERPDGP

MYSHGSSPSLLEALSSDFLACKICLEQLRAPKTLPLCLHTYQCQDCLAQLADGGRVRCPECR  
 ETVPVPPEGVASFKTNFFVNGLLDLVKARACGDLRAGKPACALCLPLVGGTSTGGPATARC  
 LDCADDLCQACADGHRCTRQTHTHRVDVLVGYRAGWYDEEARERQAAQCPQHPGEALRF  
 CQPCSQLLCRECRLDPHLDPCLPLAEAVRARRPGLEGLLAGVDNNLVELEAARRVEKEA  
 LARLREQAARVGTQVEEAAEGVLRALLAQKQEVLGQLRAHVEAAEEAARERLAELEGREQ  
 VARAAAAFARRVLSLGREAEILSLEGAIAQRLRQLQGCPWAPGPAPCLLPQLELHPGLLD  
 KNCHLLRLSFEEQQPQKDGKGDKAGTQGGEESQSRREDEPKTERQGGVQPQAGDGAQTPK  
 EEKAQTTREEGAQTLEEDRAQTPHEDGGPQPHRGGRPNKKKKFKGRLKKSISREPSALGP  
 NLDGSGLLPRPIFYCSFPTRMPGDKRSPRITGLCPFGPREILVADEQNRALKRFSLNGDY  
 KGTVPVPEGCSPCSVAALQSAVAFSASARLYLINPNGEVQWRRALSLSQASHAVAALPSG  
 DRVAVSVAGHVEVYNMEGSLATRFIPGGKASRGLRALVFLTTSPQGHFVGSDWQQNSVVI  
 CDGLGQVVGHEYKPGPLHGCQPGSVSVDDKKGYIFLTLREVNKVILDPKGSLLGDFTLAYH  
 GLEKPRVTTMVDGRYLVVSLSNGTIHIFRVRSPDS

>sp|Q5EBN2|TRI61\_HUMAN Putative tripartite motif-containing protein 61 OS=Homo sapiens  
GN=TRIM61 PE=2 SV=1

MEFVTALADLRAEASCPICLDYLDKDPVTISCGHNFCLSCIIMSWKDLHDSFPCPFCHFCC  
PERKFISNPQLGSLTEIAKQLIRSKKRKRQEEKHVCKKHNVLTFFCQKDLELLCPRCS  
LSTDHQHHCVWPIKKAASYHRKKLEEYNAPWKERVELIEKVITMQTRKSLELKKKMESPS  
VTRLECSCTISAHFNLRLPGSSDSSASGS

>sp|Q9BVG3|TRI62\_HUMAN E3 ubiquitin-protein ligase TRIM62 OS=Homo sapiens GN=TRIM62 PE=1  
SV=1

MACSLKDELLCSICLSIYQDPVSLGCEHYFCRRRCITEHWVRQEAQGARDCECRRRTFAEP  
ALAPSLKLANIVERYSSFPLDAILNARRAARPCQAHDKVKLFCLTDRALLCFFCDEPALH  
EQHQVTGIDDAFDELQRELKDLQALQDSEREHTEALQLLKRQLAETKSSTKSLRTTIGE  
AFERLHRLLRERQKAMLEELEADTARTLTDIEQKVQRYSQQLRKVQEGAQILQERLAETD  
RHTFLAGVASLSERLKGKIHTNLTYEDFPTSKYTGPLQYTIWKSQFQDIHPVPAALTLD  
PGTAHQRLILSDDCTIVAYGNLHPQLQDSPKRFDEVSVLGSEAFSSGVHYWEVVVAEK  
TQWVIGLAHEAASRKGSIQIQPSRGFYCIVMHDGNQYSACTEPWTRLNVRDKLDKVGVF  
DYDQGLLIFYNADDSWLYTFREKFPGLKCSYFSPGQSHANGKNVQPLRINTVRI

>sp|Q6PJ69|TRI65\_HUMAN Tripartite motif-containing protein 65 OS=Homo sapiens GN=TRIM65  
PE=1 SV=3

MAAQLLEEKLTCICLGLYQDPVTLPCGHNFCGACIRDWWDRCGKACPECREPFPDGAEL  
RRNVALSGVLEVVRAGPARDPGPDGPGPDPAARCPRHGRPLELFCRTEGRCVCSVCTVR  
ECRLHERALLDAERLKREAQLRASLEVTQQQATQAEGQLELRKQSSQIQNSACILASWV  
SGKFSSLLQALEIQHTTALRSIEVAKTQALAQARDEEQRLRVHLEAVARHGCRIRELLEQ  
VDEQTFLQESQLLQPPGPLPLTPLQWDEDQQLGDLKQLLSRLCGLLLEEGSHPGAPAKP  
VDLAPVEAPGLAPVPSTVCPRLRRKLWQNYRNLTDFPVSANRHFYLSRQDQVKHCRQSR  
GPGGPGSFELWQVQCAQSFQAGHHYWEVRASDHSVTLGVSYPQLPRCRLGPHTDNIGRGP  
CSWGLCVQEDSLQAWHNGEAQRLPGVSGRLLGMDLDLASGCLTFYSLEPQTQPLYTFHAL  
FNQPLTPVFWLLEGRTLTLCHQPGAVFPLGPQEEVLS

>sp|Q7LOX0|TRIL\_HUMAN TLR4 interactor with leucine rich repeats OS=Homo sapiens GN=TRIL  
PE=1 SV=2

MEAAARLRLLLVCGCLALPPLAEPVCPERCDCQHPQHLLCTNRGLRVVPKTSSLPSPHD  
VLTYSLGGNFITNITAFDFHRLGQLRRLDLQYNQIRSLHPKTFEKLRLLELYLGNNLLQ  
ALAPGTLAPLRKLRILYANGNEISRLSRGSFEGLESLVKLRLDGNALGALPDVAFAPLGN  
LLYLHLESNRIRFLGKNAFAQLGKLRFLNLSANELQPSLRHAATFAPLRSLSSLILSANN  
LQHLGPRIFQHLPRLLGLSLRGNQLTHLAPEAFWGLEALRELRLGNRLSQLPTALLEPL  
HSLEALDLSGNELSALHPATFGHLGRLRELSLRNNALSALSGDIFAASPALYRLDLGNG  
WTCDCRLRGLKRWMGDWHSQGRLLTVFVQCRHPPALRGKYLDYDDQQLQNGSCADPSPS  
ASLTADRRRQPLPTAAGEEMTPPAGLAEELPPQPQLQQQGRFLAGVAWDGAARELVGNRS  
ALRLSRRGPGLQQSPSPSVAAGAPAPQSLDLHKKPQGRPRTRADPALAEPTPTASPGSAP  
SPAGDPWQRATKHRLGTEHQERAAQSDGGAGLPPLVSDPCDFNKFILCNLTVEAVGADSA  
SVRWAVREHRSRPLGGARFRLLFDRFGQPKFHRFVYLPESSDSATLRELRGDTPYLVC  
VEGVLGGRVCPVAPRDHCAGLVTLPAGSRGGVDYQLLTLALLTVNALLVLLALAAWASR  
WLRRKLRARRKGGAPVHVRHMYSTRRPLRSMGTGVSADFSGFQSHRPRTTVCALSEADLI  
EFPCDRFMSAGGGAGGSLRREDRLLRQFAD

>sp|075382|TRIM3\_HUMAN Tripartite motif-containing protein 3 OS=Homo sapiens GN=TRIM3  
PE=1 SV=2

MAKREDSPGPEVQPMQKFLVCSICLDYQCPKVLPCLTFCERCLQNYIPAQSLTLSCP  
VCRQTSILPEQGVSAQNFFISSLMEAMQAPDGAHDPEDPHPLSVVAGRPLSCPNHEG  
KTMEFYCEACETAMCGECRAGEHREHGTVLLRDVVEQHKAALQRQLEAVRGRLPQLSAAI  
ALVGGISQQLQERKAEALAQISAAFEDLEQALQQRKQALVSDLETICGAKQKVLQSQLDL  
LRQQGEHIGSSCSFAEQALRLGSAPEVLLVRKHMRLAALAAQAFPERPHENAQLVL  
EVDGLRRSVLNLGALLTTSATAHETVATGEGRLQALVGQPASLTVTTKDKDGRVLTGSA  
ELRAEITGPDGTRLPVPVVDHKNQTYELVYTARTEGELLSSVLLYGQPVGRSPFRVRLR  
PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKDNPIEDELVFRVGSRG  
REKGEFTNLQGVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGVA  
VDNGDIIIVADYDNRWVSIFSPGKFKTKIGAGRLMGPQGVAVDRNGHIIIVDNKSCCVF  
TFQPNGKLVGRFGGRGATDRHFAGPHFVAVNNKNEIVVTDHNSVKVYSADGEFLFKFG  
SHGEGNGQFNAPTGVAVDSNGNIIIVADWGSRIQVFDSSGSFLSYINTSAEPLYGPQGLA  
LTSDGHVVVADAGNHCFAKYRLQ

>sp|Q9C030|TRIM6\_HUMAN Tripartite motif-containing protein 6 OS=Homo sapiens GN=TRIM6  
PE=1 SV=1

MTSPVLVDIREVTCPICLELLTEPLSIDCGHSFCACITPNGRESVIGQEGERSCPVCQ  
TSYPGNLRPNRHLANIVRRLREVVLGPGKQLKAVLCADHGEKLQLFCQEDGKVICWLCE  
RSQEHRRGHHTFLVEEVAQEYQEFQESLKKLNKEEQEAELTAFIREKKTSWKNQMEPER  
CRIQTEFNQLRNILDRVEQRELKKLEQEEKGLRIIEEAENDLVHQTQSLRELISDLERR  
CQGSTMELLQDVSDVTERSEFWTLRKPEALPTKLRSMPFRAPDLKRLRVCRELTDVQSYW  
VDVTLPNPTANLNLVLAKNRRQVRVFGAKVSGPSCLEKHYDCSVLGSQHFSSGKHWEVD  
VAKKTAWILGVCSNSLGPSTFSNFHFAQNSAYSRYQPQSGYWVIGLQHNHEYRAYEDSSP  
SLLLSMTVPPRRVGFLDYEAGTVSFYNVTNHGFPIYTFSKYYFPTTLCPYFNPNCNVIP  
MTLRRPSS

>sp|Q8N9V2|TRIML\_HUMAN Probable E3 ubiquitin-protein ligase TRIML1 OS=Homo sapiens  
GN=TRIML1 PE=2 SV=1

MSTADLMENLREELTCFICLDYFSSPVTTECGHSFCLVCLLRSWEEHNTPLSCPECWRTL  
EGPHFQSNERLGRLASIARQLRSQVLQSEDEQGSYGRMPTTAKALSDDEQGSFAFVAQSH  
GANRVHLSSEAEHHREKLQEILNLLRVRKEAQAVLTHEKERVKLCQEETKTCKQVVVS  
EYMKMHQFLKEEQQLQLLLEQEEKENMRKLNRNEIKLTQQIRSLSKMIAQIESSSQSSA  
FESLEEVRGALERSEPLLQCPEATTTTELSLCRITGMKEMLRKFSTEITLDPATANAYLV  
LSEDLKSVKYGGSRQQLPDNPERFDQSATVLGTQIFTSGRHYWEVEVGNKTEWVGICKD  
SVSRKGNLPKPPGDLFSLIGLIGDDYSLWSSPLKGQHVREPVCKVGVFLDYESGHIAF  
YNGTDESIIYSFPQASFQALRPIFSPCLPNEGNTNDPLTICSLNSHV

>sp|Q14669|TRIP\_C\_HUMAN E3 ubiquitin-protein ligase TRIP12 OS=Homo sapiens GN=TRIP12 PE=1  
SV=1

MSNRPNNNPGSLRRSQRN TAGAQPQDDSIGGRSCSSSSAVIVPQPEDPDRANTSERQKT  
GQVPKKDNRSGVKRSASPDYNRTNSPSSAKKPKALQHTESPSETNKPSSKSKKRHLQEQ  
QLKSAQSPSTSKAHTRKSGATGGSRSQKRKRTESSCVKSGSGSESTGAEERSAKPTKLAS  
KSATSAKAGCSTITDSSSAASTSSSSAVASASTVPPGARVKQGKDQNKARRSRASASP  
SPRRSSREKEQSKTGSSSKFDWAARFSPKVS LPKTKLSLPGSSKSETSKPGPSGLQAKLA  
SLRKSTKKRSESPPAELPSLRRSTRQKTGSCASTSRRGSGLGKRGAAEARRQEKMADPE

SNQEAVNSSAARTDEAPQGAAGAVGMTTSGESESDDSEMGRQLQALLEARGLPPLHFGPLG  
PRMSQLFHRTIGSGASSKAQQLLQGLQASDESQQLQAVIEMCQLVMGNEETLGGFPVKS  
VVPALITLLQMEHNFDMNHACRALTYMMEALPRSSAVVVDAIPVFLEKLQVIQCIDVAE  
QALTALEMLSRRHSAKILQAGGLADCLLYLEFFSINAQRNALATAANCCQSITPDEFHFV  
ADSLPLLTQRLTHQDKKSVESTCLCFARLVDFNQHEENLLQQVASKDLLTNVQQLLVVTP  
PILSSGMFIMVVRMFSLMCSNCPTLAVQLMKQNIATLHFLLCGASNGSCQEQIDLVP  
PQELYELTSLICELMPCLPKEGIFAVDTMLKKGNAQNTDGAIWQRDDRGLWHPYNRIDS  
RIIEQINEDTGATARAIQRKPNPLANSNTSGYSESKDDARAQLMKEDPELAKSFIKTLFG  
VLYEYVSSSAGPAVRHKCLRAILRIIFYADAELLKDVKNHAVSSHIASMLSSQDLKIVV  
GALQMAEILMQKLPDIFSVYFRREGVMHQVHKLAESESLTSPPKACTNGSGSMGSTTSV  
SSGTATAATHAAADLGSPSLQHSRDDSLDSPQGRLSDVLKRKRLPKRGPRRPKYSPPRD  
DDKVDNQAKSPTTTQSPKSSFLASLNPKTWGRLSTQSNNSNIEPARTAGGSGLARAASKD  
TISNNREKIKGWIKEQAHKFVERYFSSSENMDGSPALNVLQRLCAATEQLNLQVDGGAEC  
LVEIRSIVSESDVSSFEIQHSGFVKQLLLYLSKSEKDAVSREIRLKRFLHVFFSSPLPG  
EPIGRVEPVGNAPLLALVHKMNCLSQMEQFPVKVHDFPSGNGTGGSFSLNRGSQALKF  
FNTHQLKCQLQRHPDCANVKQWKGPPVKIDPLALVQAIERYLVVRGYGRVREDDESDDD  
GSDEEIDESLAAQFLNSGNVRHRLQFYIGEHLHPYNMTVYQAVRQFSIQAEDERESTDDE  
SNPLGRAGIWTKTHTIWKPVREDEESNKDCVGGKRGRAQTAPTCTSPRNAKKHDELWHD  
GVCPSVSNPLEVYLIPTPPENITFEDPSLDVILLRLVLAHSRYWYYLYDNAMCKEIIPT  
SEFINSKLTAKANRQLQDPLVIMTGNIPTWLTELGKTCPPFFPFDRQMLFYVTAFRDR  
AMQRLLDTNPEINQSDSQSRVAPRLDRKKRTVNREELKQAESVMQDLGSSRAMLEIQY  
ENEVGTGLGPTLEFYALVSQELQRADLGLWRGEEVTLSPKGSQEGTKYIQNLQGLFALP  
FGRTAKPAHIAKVKMKFRFLGKLMAKAIMDFRLVDLPLGLPFYKWMRLQETSLTSHDLFD  
IDPVVARSVYHLEDIVRQKKRLEQDKSQTKESLQYALETMTMNGCSVEDLGLDFTLPGFP  
NIELKKGGKDIPVTIHNLEEYLRVIFWALNEGVSQRQFDSFRDGFESVFPLSHLQYFYPE  
ELDQLLCGSKADTWDATLMECCRPDHGYTHDSRAVKFLFEILSSFDNEQQRLFLQFVTG  
SPRLPVGGFRSLNPPLTIVRKTFESTENPDDFLPSVMTCVNYLKLDPYSSIEIMREKLLI  
AAREGQQSFHLS

>sp|Q7Z2T5|TRM1L\_HUMAN TRMT1-like protein OS=Homo sapiens GN=TRMT1L PE=1 SV=2

MENMAEEELLPLEKEEVEVAQVQVPTPARDSAGVPAPAPDSALDSAPTPASAPAPAPALA  
QAPALSPSLASAPEEAKSKRHISIQRLADLENLAFVTDGNFDSASSLNSDNLDAENRQA  
CPLCPKEKFRACNSHKLRRHLQNLHWKVSVEFEGYRMCICHLPCRVPKPNIIQEITSKM  
GAHYHCCIISATITRRTDMLGHVRRHMNKGETKSSYIAASTAKPPKEILKEADTDVQVCP  
NYSIPQKTDSYFNPKMKNRQLIFCTLAALAEERKPLECLDAFGATGIMGLQWAKHLGNA  
VKVTINDLNENSVTLIQENCHLNKLKVVVDSKEKEKSDDILEEGEKNLGNIKVTKMDANV  
LMHLRSFDFIHLDPFGTSVNYLDSAFRNIRNLGIVSVTSTDISSLYAKAQHVARRHYGCN  
IVRTEYYKELAAIRIVAAVARAAARCNGIEVLFAVALEHFVLVVVRVLRGPTSADETAK  
KIQYLIHCQWCEERIFQKDGNMVEENPYRQLPCNCHGSMGPKTAIELGPLWSSSLFNTGF  
LKRMLFESLHHGLDDIQTLIKTLIFESECTPQSQFSIHASSNVNKQEENGVIKTTDDTT  
TDNYIAQGKRKSNEMITNLGKKQKTDVSTEHPFFYYNIHRHSIKGMNMPKLKKFLCYLSQ  
AGFRVSRTHFDPMGVRTDAPLMQFKSILLKYSTPTYTGGQSESHVQSASEDTVTERVEMS  
VNDKAEASGCRRW

>sp|Q32P41|TRM5\_HUMAN tRNA (guanine(37)-N1)-methyltransferase OS=Homo sapiens GN=TRMT5  
PE=1 SV=2



MVLWILWRPFGFSGRFLKLESHSITESKSLIPVAWTSLTQMLLEAPGIFLLGQRKRFSTM  
PETETHERETELFSPPSDVRGMTKLDRTAFKKTVNIPVLKVRKEIVSKLMRSLKRAALQR  
PGIRRVIEDPEDKESRLIMLDPYKIFTHDSFEKAELSVLEQLNVSPQISKYNELEYEHF  
KSEEILRAVLPEGQDVTSGFSRIGHIAHLNLRDHQLSFKHLIGQVMIDKNPGITSAVNKI  
NNIDNMYRNFQMEVLSGEQNMMTKVRENNYTYEFDfskVYWNPRLSTEHSRITELLKPGD  
VLFDVFAGVGPFAIPVAKKNCTVFANDLNPESHKWLLYNCKLNKVDQKVVFNLGKDFL  
QGPVKEELMQLLGLSKERKPSVHVVMNLPKAIEFLSAFKWLLDGQPCSSEFLPIVHCYS  
FSKDANPAEDVRQRAGAVLGISLEACSSVHLVRNVAPNKEMLCITFQIPASVLYKNQTRN  
PENHEDPPLKRQRTAEAFSDEKTQIVSNT

>sp|Q6UXP3|TM14E\_HUMAN Transmembrane protein 14EP OS=Homo sapiens GN=TMEM14EP PE=5 SV=1  
MQMDPGPQVPLYWLGfVYAALAGGISGYAKVGSVQSPSAGFFSELAGLDASQPSRNP  
KEHLSSPVYIIDLARYYANKILTLWNIYACGFSCRCLLIVSKLGS MYGEQILSVVAMS QL  
GLMKN

>sp|Q6P9G4|TM154\_HUMAN Transmembrane protein 154 OS=Homo sapiens GN=TMEM154 PE=1 SV=2  
MQAPRAALVFALVIALVPVGRGNYEELNSGDTTVESERPKNVTIPSTFAAVTIKETLNA  
NINSTNFAPDENQLEFILMVLIPILLLVLLLSVVFLATYYKRKRKQEPSSQGSQSALQ  
TYELGSENVKVPIFEEDTPSVMEIEMEELDKWMNSMNRNADFECLPTLKEEKESNHNPDS  
SES

>sp|Q8TC26|TM163\_HUMAN Transmembrane protein 163 OS=Homo sapiens GN=TMEM163 PE=2 SV=1  
MEPAAGIQRRSSQGPTVPPPRGHAPAAAPGAPLSSPVREPPQLEEEERQVRISESGQF  
SDGLEDRGLLESSTRLPHEAQNYRKKALWVSWFSIIIVTLALAVAAFTVSVMYRSASAFG  
FAFDAILDVLSSAIVLWRYSNAAAVHSAHREYIACVILGVIFLLSSICIVVKAIHDLSTR  
LLPEVDDFLFSVSILSGILCSILAVLKFMLGKVLTSRALITDGFNSLVGGVMGFSILLSA  
EVFKHDSAVWYLDGSIGVLIGLTIFAYGVKLLIDMVPRVRQTRHYEMFE

>sp|Q5U3C3|TM164\_HUMAN Transmembrane protein 164 OS=Homo sapiens GN=TMEM164 PE=2 SV=1  
MSRYSYQSLLDWLYGGVDPSFAGNGGPDCAAFLSWQQRLLESVVVLTALLEILVALRHI  
LRQTKEDGRGSPGSQPEQVTQRPEEGKESLKNLLVALCLTFGVEVGFKFATKTVIYLL  
NPCHLVTMHIFLLACPPCRGAIVVFKLQMHMLNGALLALLFPVVNTRLLPFELEIYYIQ  
HVMLYVPIYLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNMLC  
PAISDPFYGPWYRIWASGHQTLMTMTHGKLVILFSYAGPLCKYLLDLLRLPAKKID

>sp|Q8WUU8|TM174\_HUMAN Transmembrane protein 174 OS=Homo sapiens GN=TMEM174 PE=1 SV=1  
MEQSGSRLEDFPVNVFSVTPYTPSTADIQVSDDDKAGATLLFSGIFLGLVGITFTVMGWI  
KYQGVSHFEWTQLLGPVLLSVGVTFILIAVCKFKMLSCQLCKESEERVDPSEQTPGGPSF  
VFTGINQPI TFH GATV VQYIPPPYGSPEPMGINTSYLQSVVSPCGLITSGGAAAAMSSPP  
QYYTIYPQDN SAFV VDEGCLSFTDGGNHRPNPDVDQLEETQLEEEACACFSPPPYEEIYS  
LPR

>sp|Q6ZP80|TM182\_HUMAN Transmembrane protein 182 OS=Homo sapiens GN=TMEM182 PE=1 SV=2  
MRLNIAIFFGALFGALGVLLFLVAFGSDYWLLATEVGRCSGEKNIENVTFHHEGFFWRCW  
FNGIVEENDSNIWKFWYTNQPPSKNCTHAYLSPYPFMRGEHNSTSYDSAVIYRGFWAVLM  
LLGVVAVVIASFLIICAAPFASHFLYKAGGGSYIAAGILFSLVVMLYVIWVQAVADMESY  
RNMKMKDCLDFTPSVLYGWSFFLAPAGIFFSLLAGLLFLVVGWHIQIHH

>sp|Q68D42|TM215\_HUMAN Transmembrane protein 215 OS=Homo sapiens GN=TMEM215 PE=2 SV=1  
MRPDDINPRTGLVVALVSVFLVFGFMFTVSGMKGETLGNIPLLAIGPAICLPGIAAIALA  
RKTEGCTKWPENELLWVRKLPCKRKPDKKEVVELLRTPSDLESKGSSDELAKKAGLRGK

PPPQSQGEVSVASSINSPTPTEEGECQSLVQNGHQEETSRYLDGYCPSGSSLTYSALDVK  
CSARDRSECEPEDSIFFFVPQDSIIVCSYKQNSPYDRYCCYINQIQGRWDHETIV

>sp|A6NGB7|TM221\_HUMAN Transmembrane protein 221 OS=Homo sapiens GN=TMEM221 PE=4 SV=3

MARSYGGRVLAAMTLLGIAAVLAALGAQLLFQLQAGRAELRGLRAEGLGQELGAGPGLP  
EDAAGTLLPLAAALAAVLVLGFTCLLLAALCGHLGAELARGPGPRRSDFLYDCRLLRH  
VALGLFCCGISVYLAALSIYALLLFEIETGAAAASILGSGTLVLVAVLTHTLLRAARAAR  
RGLHELSPPSFEDDLARPAEVSKASPRAQPQQGIHRRTPYSTCPEPGDPFGSMATATAPA  
ALEGGWESSLPASRMHRTL SAGLGHWDGVTHEMRRLGHRPGSMGKDSTLV

>sp|Q9HOR3|TM222\_HUMAN Transmembrane protein 222 OS=Homo sapiens GN=TMEM222 PE=1 SV=2

MAEAEGSSLLLLPPPPPPPRMAEVEAPTAAETDMKQYQSGGVAMDVERSRFPYCVVWTP  
IPVLTWFFPIIGHMGICTSTGVIRDFAGPYFVSEDNMAFGKPAKYWKLDPAQVYASGPNA  
WDTAVHDASEEYKHRMHNLCDCNCHSHVALALNLMRYNNSTNWNMVTLCFFCLLYGKYVS  
VGAFVKTWLPFILLGIILTVSLVFNLR

>sp|B4DJY2|TM233\_HUMAN Transmembrane protein 233 OS=Homo sapiens GN=TMEM233 PE=3 SV=1

MSQYAPSPDFKRALDSSPEANTEDDKTEEDVPMPKNYLWLTIVSCFCPAYPINIVALVFS  
IMSLNSYNDGDYEGARRLGRNAKWVAIASIIIGLLIIGISCAVHFTRNA

>sp|A6NFC5|TM235\_HUMAN Transmembrane protein 235 OS=Homo sapiens GN=TMEM235 PE=2 SV=3

MARLGALLLAAALGALLSFALLAAVASDYWYLEVADAGNGSAWPGRAELSSHSGLWR  
ICEGQNGCIPLVDPFASES LDVSTSVQHLILLHRAVIVVLPLSLVLLVCGWICGLLSSLA  
QSVSLLLTGCFYLLGSLVTLAGVSIYISYSHLAFETVQQYGPQHMQGVRSFGWSMAL  
AWGSCALEAFSGTLLLSAAWTLSPPICGHLSPQVGGRGGD

>sp|C9JI98|TM238\_HUMAN Transmembrane protein 238 OS=Homo sapiens GN=TMEM238 PE=1 SV=1

MAAAPAVCASQSGSPGAPSAPAAAAPAAAGLGRCRMALLAVALDVAGMAALLTGVF AQL  
QVRGRDFGDL LIYSGALLVFLSLLGWILWYTGNIETSRQELERDYGLRPSALARLARKLS  
RRWSAPAAAGQRPAPGSRARRARAAPPPAAGSRRVRLQLATLEAGPGAAGAGSE

>sp|Q5SV17|TM240\_HUMAN Transmembrane protein 240 OS=Homo sapiens GN=TMEM240 PE=1 SV=2

MSMSANTMIFMILGASVVMIAIACLMNMNALLDRFHNYILPHLRGEDRVCHCNCGRHHIHY  
VIPYDGDQSVVDASENYFVTDSVTKQEIDLMLGLLGFCISWFLVWMDGVLHCAVRAWRA  
GRRYDGSWTWLPKLCSLRELGRPHRPFEEAAGNMVHV KQKLYHNGHPSPRHL

>sp|Q9BU79|TM243\_HUMAN Transmembrane protein 243 OS=Homo sapiens GN=TMEM243 PE=1 SV=1

MEDFATRTYGTSGLDNRPLFGETS AKDRIINLVVGSLSLLILVTLISAFVFPQLPPKPL  
NIFFAVCISLSSITACILYIYWRQGDLEPKFRKLIYYIIFSIIMLCICANLYFHDVGR

>sp|Q9BRR3|TM246\_HUMAN Transmembrane protein 246 OS=Homo sapiens GN=TMEM246 PE=1 SV=1

MSTSTSPAAMLLRRLRLSWGSTAVQLFILTVVTFGLLAPLACHRLLSYFYLRHWHLNQ  
MSQEFLQQSLKEGEAALHYFEELPSANGSVPIVWQATPRPWL VITITVDRQPGFHYVLQ  
VVSQFHRLLQQCGPQCEGHQLFLCNVERSVSHFDAKLLSKYVPVANRYEGTEDDYGDDPS  
TNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVP EEQIFPVLEHLLRARFSEPHLRDA  
LYLKLYHPERLQHYINPEPMRILEWVGVMLLGPLLTW IYMRFASRPGFSWPVMLFFSLY  
SMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLPAPAARRTLTYLSQVYCHKGF  
GKDMALYSLLRAKGERAYVVEPNLVKHIGLFSSLRYNFHPSSL

>sp|Q8N6L7|TM252\_HUMAN Transmembrane protein 252 OS=Homo sapiens GN=TMEM252 PE=2 SV=1

MQNRTGLILCALALLMGFLMVCLGAFFISWGSIFDCQGS LIAAYLLLPLGFVILLSGIFW  
SNYRQVTESKGLVRHMLRQHLAHGALPVATVDRPDFYPPAYEESLEVEKQSCPAEREASG  
IPPLYTETGLEFQDGNDSHP EAPPSYRESIAGLVVTAISEDAQRRGQEC

>sp|O14669|TMG2\_HUMAN Transmembrane gamma-carboxyglutamic acid protein 2 OS=Homo sapiens  
GN=PRRG2 PE=1 SV=1

MRGHPSLLLLYMALTTCLDTSPSEETDQEVFLGPPEAQSFSSHTRIPRANHWDLELLTP  
GNLERECLEERCSSWEEAREYFEDNTLTERFWESYIYNGKGGGRVDVASLAVGLTGILL  
IVLAGLGAFWYLRWRQHRGQQPCPQEAGLISPLSPLNPLGPPTPLPPPPPPPPGLPTYEQ  
ALAASGVHDAPPPPYTSLRRPH

>sp|Q9BZD6|TMG4\_HUMAN Transmembrane gamma-carboxyglutamic acid protein 4 OS=Homo sapiens  
GN=PRRG4 PE=1 SV=1

MFTLLVLLSQLPTVTLGFPHCARGPKASKHAGEEVFTSKEEANFFIHRRLLYNRFDELELF  
TPGNLERECNEELCNYEEAREIFVDEDKTIAFWQEYSAGPTTKSDGNREKIDVMGLLTG  
LIAAGVFLVIFGLLYLITKCNRLQHPCSSAVYERGRHTPSIIFRRPEEAALSPLPPS  
VEDAGLPSYEQAVALTRKHSVSPPPYPGHGTFGRVFKKMSLPSH

>sp|Q96B42|TMM18\_HUMAN Transmembrane protein 18 OS=Homo sapiens GN=TMEM18 PE=1 SV=2

MPSAFVSFFPVSIPAVLTQTDWTEPWLMGLATFHLCVLLTCLSSRSYRLQIGHFLCLV  
ILVYCAEYINEAAMNWLFSKYQYFDSRGMFISIVFSAPLLVNAMIIVVMVWVWKTNLNM  
TDLKNAQERRKEKKRRRKED

>sp|Q9HBJ8|TMM27\_HUMAN Collectrin OS=Homo sapiens GN=TMEM27 PE=1 SV=1

MLWLLFFLVTAIHAEQCQGAENAFKVRLSIRTALGDKAYAWDTNEEYLFKAMVAFSMRK  
VPNREATEISHVLLCNVTQRVSWFVVTDP SKNHTLPAVEVQSAIRMNKNRINNAFFLND  
QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRRRKNEPSEVD  
DAEDKCENMITIENGIPSDPLDMKGGHINDAFMTEDERLTPL

>sp|Q96HE8|TMM80\_HUMAN Transmembrane protein 80 OS=Homo sapiens GN=TMEM80 PE=2 SV=3

MAEGARARGPRGCRDRDGPAGGAGKMAAPRRGRGSSTVLSSVPLQMLFYLSGTYIALYFL  
ATLLMITYKSQVFSYPHYRLVLDLALLFLMGILEAVRLYLGRGNLTEAERPLAASLALT  
AGTALLSAHFLLWQALVLWADWALSATLLALHGLEAVLQVVAIAAFTR

>sp|Q6P7N7|TMM81\_HUMAN Transmembrane protein 81 OS=Homo sapiens GN=TMEM81 PE=2 SV=1

MKVLATSFVLGSLGLAFYLPVVTPTKTLAIPKLEAVGKVIINATTCTVTCGLGYKEE  
TVCEVGPDGVRRCQTRRLECLTNWICGMLHFTILIGKEFELSCLSSDILEFGQEAFT  
WRLARGVISTDDEVFKPFQANSHFVKFYAQEYDSGTYRCDVQLVKNLRLVKRLYFGLRV  
LPPNLVNLNFHQSLTEDQKLIDEGLEVNLDSYKPHHPKWKKKVASALGIGIAIGVVG  
LVRIVLCALRGGLQQ

>sp|Q6PEY1|TMM88\_HUMAN Transmembrane protein 88 OS=Homo sapiens GN=TMEM88 PE=1 SV=1

MADVPGAQRAVPGDPEPRDPLDCWACAVLVTQNLLVAAFNLLLVLVLTGILLPAVTM  
LGFGFLCHSQFLRSQAPPCTAHLRDPGTALLVTGFLLLVPLLVLALASYRRLCLRLRLA  
DCLVPYSRALYRRRRAPQPRQIRASPGSQAVPTSGKVWV

>sp|Q12767|TMM94\_HUMAN Transmembrane protein 94 OS=Homo sapiens GN=TMEM94 PE=1 SV=1

MDLKEKHLGEPSSALGLSTRKALSVLKEQLEAVLEGHLRERKKCLTWKEVWRSSFLHHSN  
RCSCFHWPGASLMLLAVLLLLGCCGGQPAGSRGVLNASALFLLLLNLVLIGRQDRK  
RREVERRLRGIIDQIQDALRDGREIQWPSAMYPDLHMPFAPSWSLHWAYRDGHLVNLVPS  
LLVEGDIIALRPGQESFASLRGIKDDEHIVLEPGDLFPFSPPPSPRGEVERGPPSPQQH  
RLFRVLETPVIDNIRWCLDMALSRPVTALDNERFTVQSVMLHYAVPVVLAGFLITNALRF  
IFSAPGVTSWQYTLQLQVNGVLPILPLLFPVLWVLATACGEARVLAQMSKASPSSLLAK  
FSEDTLSSYTEAVSSQEMLRCIWGHFLRVLGGTSPTLSHSSSLHSLGSVTVLCCVDKQG  
ILSWPNPSPETVLFSGKVEPPHSSHEDLTDGLSTRSFCHPEPHERDALLAGSLNNTLHL

SNEQERGDWPGEAPKPEPYSHHKAHGRSKHPSGSNVFSRDTEGEEEEPSKTQPGMESD  
PYEAEFVCDYHLEMLSLSQDQQNPSCIQFDDSNWQLHLTSLKPLGLNVLLNLCDASVTE  
RLCRFSDHLCNIALQESHSAVLPHVVPWGLCELARLIGFTPGAKELFKQENHLALYRLPS  
AETMKETSLGRLSCVTKRRPPLSHMISLFIKDTTSTEQMLSHGTADVLEACTDFWDGA  
DIYPLSGSDRKKVLDIFYQRACLSGYCSAFAYKPMNCALSSQLNGKCIELVQVPGQSSIFT  
MCELPSTIPIKQNARRSSWSSDEGIGEVLEKEDCMQALSGQIFMGMVSSQYQARLDIVRL  
IDGLVNACIRFVYFLEDELKSKVFAEKMGLTGWNCHISLTPNGDMPGSEIPPSSPSHA  
GSLHDDLNVSRDDAEGLLLMEEEGHSDLSFQPTDSDIPSFLEDSNRAKLPRGIHQVRP  
HLQNIDNVPLLVPLFTDCTPETMCEMIKIMQEYGEVTCCLGSSANLRNSCLFLQSDISIA  
LDPLYPSRCSWETFGYATSISMAQASDGLSPLQLSGQLNSLPCSLTFRQEETISIIRLIE  
QARHATYGIKCFLLQCQLTLVVIQFLSCLVQLPPLLSTTDILWLSCFCYPLLSISLL  
GKPPHSSIMSMATGKNLQSIKKTQHYFLLCFLKFSLTISSCLICFGFTLQSFCDSSRD  
RNLNCSVMLPSNDDRAPAFWEDFANGLLSAQKLTAAALIVLHTVFISITHVHRTKPLWR  
KSPLTNLWWAVTPVPVLLGQVVQTAVDLQLWTHRDSHVHFGLEDVPLLTWLLGCLSLVLV  
VVTNEIVKLHEIRVRVRYQKRQKLQFETKLGMNPF

>sp|Q5BJF2|TMM97\_HUMAN Transmembrane protein 97 OS=Homo sapiens GN=TMEM97 PE=1 SV=1  
MGAPATRRCEWLLGLYFLSHIPITLFMDLQAVLPRELYPVEFRNLLKWAYKEFKDPLLQ  
EPPAWFKSFLFCELVFQLPFFPIATYAFLKGCKWIRTPAIYSVHTMTTLIPILSTFLF  
EDFSKASGFGKQRPETLHERLTLVSVYAPYLLIPFILLIFMLRSPYYKYEEKRKKK

>sp|Q8N816|TMM99\_HUMAN Transmembrane protein 99 OS=Homo sapiens GN=TMEM99 PE=2 SV=2  
MVGILPLCCSGCVSLCCSSYVPSVAPTAHVSVRVPHSAGHCGQRLACSLPQVFLKPWI  
FVEHFSSWLSLELFSFLRYLGTLLCACGHLREGLLLPCLLGVSLLFNNTGGSWFSL  
HLQQVSLSQGSVAAFLPEAIGPVPVPSGESTSAQQSHAGWQLSAEADACPSVLYSEV  
LEWNKNINTYTSFHFDFCLILGIFLFCFVLAVIGLPYIKPGLSLSVALLWQSLILLSSLVQ  
QDSQVHTWGCLFSTFTST

>sp|Q9NZQ9|TMOD4\_HUMAN Tropomodulin-4 OS=Homo sapiens GN=TMOD4 PE=2 SV=1  
MSSYQKELEKYRDIIDEDEILRTLSPEELEQLDCELQEMDPENMLLPAGLRQRDQTKKSPT  
GPLDREALQLYLEQQALEVKERDDLVPFTGEKKGKPYIQPKREIPAEEQITLPEPELEEAL  
AHATDAEMCDIAAILDMYTLMSNKQYYDALCSGEICNTEGISSVVQPDYKVPVDEPPNP  
TNIEEILKRVRSNDKELEEVLNNIQDIPMLSELCEAMKANTYVRSFSLVATRSGDPI  
ANAVADMLRENRLQSLNIESNFISSTGLMAVLKAVRENATLTELVDNQRQWPGDAVEM  
EMATVLEQCPSIVRFGYHFTQQGPRARAAQAMTRNNELRRQKKR

>sp|Q9NRS4|TMPS4\_HUMAN Transmembrane protease serine 4 OS=Homo sapiens GN=TMPRSS4 PE=1  
SV=2

MLQDPDSDQPLNSLDVKPLRKPRIPMETFRKVGIPIIIALSLASIIIVVLIKVILDKY  
YFLCGQPLHFIPRKQLCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLDSAT  
GNWFSACFDNFTEALAEACRQMGYSSKPTFRAVEIGPDQDLVVEITENSQELMRNSS  
GPCLSGSLVSLHCLACGKSLKTPRVVGVEEASVDSWPWQVSIQYDKQHVCSSILDPHWV  
LTAHCFRKHTDFVNWVRAGSDKLGSFPSLAVAKIIIEFNPMYPKDNIALMKLQFPL  
TFSGTVRPICLPFDEELTPATPLWIIIGWGTKQNGGKMSDILLQASVQVIDSTRCNADD  
AYQGEVTEKMMCAGIPEGGVDTCQGDGGPLMYQSDQWHVVGIVSWGYGCGGPSTPGVYT  
KVSAYLNWIYNVWKAEL

>sp|Q8IUR5|TMTC1\_HUMAN Transmembrane and TPR repeat-containing protein 1 OS=Homo sapiens  
GN=TMTC1 PE=1 SV=3

MVVTTSARGGGGDRTPSRRRGCLAPAGAAALLAGASCLCYGRSLQGEFVHDDVWAI VNN  
PDVRPGAPLRWGIFTNDFWKGMAENTSHKSYRPLCVLTFKLNIFLTGMNPFYFHAVNII  
LHCLVTLVLMYTCDKTVFKNRGLAFVTTALLFAVHPIHTEAVAGIVGRADVLACLLFLLAF  
LSYNRSLDQGCVGGSFPSTVSPFFLLLSLFLGTCAMLVKETGITVFGVCLVYDLFSLSNK  
QDKSSNGALCPRSPQQPGSPQPSSLPGHPHRENGKQQRFPHKGAWGGCHSPLPPEPKSSG  
FPVSPRAVWSMMRFLTYSYLLAFNVWLLAPVTLCYDWQVGSIPLVETIWMRNLATIFL  
AVVMALLSLHCLAAFKRLEHKEVLVGLLFLVFPFIPASNLFFRVGFVVAERVLMPSMGY  
CILFVHGLSKLCTWLNRCGATTLIVSTVLLLLFSWKTVKQNEIWL SRESLFRSGVQTL P  
HNAKVHYNANFLKDGGRNKEAIYHYRTALKLYPRHASALNNLGTLTRDTAEAKMYQRA  
LQLHPQHNRALFNLGNLLKSQEKKEEAITLLKDSIKYGPEFADAYSSLASLLAEQERFKE  
AEEIYQTGIKNCPDSSDLHNNYGVFLVDTGLPEKAVAHYQQA IKLSPSHHVAMVNLGRLY  
RSLGENSMAEEWYKRALQVAHKA EILSPLGALYNTGRYEEALQIYQEAALQPSQREL R  
LALAQVLAVMGQTKEAEKMTNHIVSEETGCLECYRLLSAIYSKQENHDKALDAIDKALQL  
KPKDPKVISSEFFTKGNQLREQNLLDKAFESYRVAVQLNPDQAQAWNMGGI QHIKGYV  
SARAYYERALLVPSKLLKENLAKLDRLEKRLQEVREKDQT

>sp|Q6ZXV5|TMT C3\_HUMAN Transmembrane and TPR repeat-containing protein 3 OS=Homo sapiens  
GN=TMT C3 PE=1 SV=2

MANINLKEITLIVGVVTACYWNSLFCGFVFDVSAILDNKDLHPSTPLKTLFQNDFWGTP  
MSEERSHKSYRPLTVLTFRLNYLLSELKPMSYHLLNMIFHAVVSVIFLKVCKLFLDNKSS  
VIASLLFAVHPIHTEAVTG VVGRAELLSSIFFLAAFLSYTRSKGPDNSIIWTPIALTVFL  
VAVATLCKEQGITVVGICCVYEVFIAQGYTLPLLCTTAGQFLRGKGSIPF SMLQTLVKLI  
VLMFSTLLLVIRVQVIQS QLPVFTRFDNPAAVSPTPTRQLTFNYLLPVNAWLLLNPS EL  
CCDWTMTGIPLIESLLDIRNLATFTFFCFLGMLGVFSIRYSGDSSKTVLMALCLMALPFI  
PASNLFFPVGFVVAERVLVPSMGFCILVAHG WQKISTKS VFKKLSWICLSMVILTHSLK  
TFHRNWDWESEYTLFMSALKVNKNNAKLWNNVGHALENEKNFERALKYFLQATHVQPDDI  
GAHMNVGRTYKNLNRKEAEESYMAKSLMPQIIPGKKYAARIAPNHLNVYINLANLIRA  
NESRLEEADQLYRQAISM RPDFKQAYISR GELLKMNKPLKAKEAYLKALELDRNNADLW  
YNLAI VHIELKEPNEALKKNFNRALELNPKHKLALFNSAIVMQESGEVKLRPEAR KRLS  
YINEEPLDANGYFNLGMLAMDDKKDNEAEIWMKKA IKLQADFRSALFNLALLYSQTAKEL  
KALPILEELLRYYPDHIKGLILKGDILMNQKKDILGAKKCFERILEMDPSNVQGKHNL CV  
VYFEEKDLLKAERCLLET LALAPHEEYIQRHLNIVRDKISSSSFIEPIFPTSKISSVEGK  
KIPTESVKEIRGESRQTQIVKTS DNKSQSKSNKQLGKNGDEETPHKTTDKI KEIEKKRVA  
ALKRLEEIERILNGE

>sp|Q03169|TNAP2\_HUMAN Tumor necrosis factor alpha-induced protein 2 OS=Homo sapiens  
GN=TNFAIP2 PE=2 SV=2

MSEASSEDLVPPLEAGAAPYREEEEA AAKKKKEKKKKSKGLANVFCVFTKGKKKKGQPSSA  
EPEDAAGSRQGLDGPPPTVEELKAALERGQLEAARPLLALERELAAAAAAGGVSEEELVR  
RQSKVEALYELLRDQVLGVLRRLPEAPPERLRQALAVVAEQEREDRQAAAAGPGTSGLAA  
TRPRRWLQLWRRGVAAAEERMGQRPAAAGAEVPESVFLHLGR TMKEDLEAVVERLKPLFP  
AEFGVVAAYAESYHQHFAAHLAAVAQFELCERD TYMLLLWVQNLYPNDI INSPKLVGELQ  
GMGLGSLPPRQIRLLEATFLSSEAA NVRELM DRALELEARRWAEDVPPQR LDGHCHSEL  
AIDI IQITSQAQAKAESITLDLGSQIKRVLLVELPAFLRSYQRAFNEFLERGKQLTNYRA  
NVIANINNCLSFRMSMEQN WQVPQDTLSLLGLPLGELKSHGFD TLLQNLHEDLKPLFKRF  
THTRWAAPVETLENI IATVDTRLPEFSELQGCFFREELMEALHLHLVKEYIIQLSKGRVL

KTAEQQQQLAGYILANADTIQHFCTQHGSPATWLQPALPTLAEIIRLQDPSAIKIEVATY  
ATCYPDFSKGHLSAILAIKGNLSNSEVKRIRSILDVSMGAQEPSRPLFSLIKVG

>sp|015417|TNC18\_HUMAN Trinucleotide repeat-containing gene 18 protein OS=Homo sapiens  
GN=TNRC18 PE=1 SV=3

MDGRDFGPQRSVHGPPPPLLSGLAMDSHRVGAATAGRLPASGLPGPLPPGKYMAGLNLHP  
HPGEAFLGSFVASGMGPSASSHGSPVPLPSDLSFRSPTPSNLMVQLWAAHAHEGFSLP  
SGLYPSYLHLNHLEPPSSGSPLLSQLGQPSIFDTQKGGQPGGDGFYLTAGAPGSLHSHA  
PSARTPGGGHSSGAPAKGSSSRDGPAGERAGRGEPPLFGKKDPRARGEESGPRGVVD  
LTQEARAEGRQDRGPPRLAERLSFPLAESKTNAALQPSVLTMCNGGAGDVGLPALVAEA  
GRGGAKEAARQDEGARLLRRTETLLPGPRPCPSLPPPPAPPKGPPAPPAATPAGVYTVF  
REQGREHRVVAPTFVPSVEAFDERPGPIQIASQARDAREREREAGRPGVLQAPPGSPRPL  
DRPEGLREKNSVIRSLKRPPADAPTVRATRASPDPRAVPAKELLKPEADPRPCERAPR  
GPAGPAAQQAALFGLPEGRPPPTGPEHKWKPFELGNFAATQMAVLAAQHHSRAEEEEAA  
VVAASSSKKAYLDPGAVLPSAATCGRPVADMHSAAHGSGEASAMQSLIKYSGSFARDAV  
AVRPGGCGKKSPPFGLGTMKPEPAPTSAGASRAQARLPHSGGPAAGGGRQLKRDPERPES  
AKAFGREGSGAQGEAEVRHPPVGI AVAVARQKDSGGSGRLGPGLVDQERSLSLSNVKGHG  
RADEDCVDDRARHREERLLGARLDRDQEKLLRESKELADLARLHPTSCAPNGLNPNLMVT  
GGPALAGSGRWSADPAHLATHPWLPRSGNASMWLAGHPYGLGPPSLHQGMAPAFPPGLG  
GSLPSAYQFVRDPQSGQLVVIPSDHLPHFAELMERATVPPLWPALYPPGRSPLHHAQQLQ  
LFSQQHFLRQQEFLYLQQAQAQALELQRSACLQERLKAQEHRAEMEEKGSKRGLEAAGK  
AGLATAGPGLLPRKPPGLAAGPAGTYGKAVSPPSPRASPAALAKV IQKLEDVSKPPA  
YAYPATPSSHPTSPPPASPPPTPGITRKEEAPENVVEKKDLELEKEAPSPFQALFSDIPP  
RYPFQALPPHYGRYPFLLQPTAAADADGLAPDVPLPADGPERLALSPEDKPIRLSPSKI  
TEPLREGPEEEPLAEREVKAEVEDMDEGPTLEPPLSPLPLPAAEAMATPSPAGGCGGGL  
LEAQUALSATGQSCAEPSECPDFVEGPEPRVDSPGRTEPCTAALDLGVQLTPETLVEAKEE  
PVEVPVAVPVVEAVPEEGLAQVAPSESQPTLEMSDCDVPAGEGQCPSLEPQEAVPVLGST  
CFLEEASSDQFLPSLEDPLAGMNALAAAELPQARPLPSPGAAGAAQALEKLEAAESLVLE  
QSFLHGITLLSEIAELELERRSQEMGGAERALVARPSLESLLAAGSHMLREVLDGPVVD  
LKNLRLPRELKPNKKYSWMRKKEERMYAMKSSLEDMDALELDFRMRLAEVQRQYKEKQRE  
LVKLQRRRDSERREEPHRSLARRGPGPRKRTHAPSALSPPRKRKSGHSSGKLSKSL  
LTSDDYELGAGIRKRHKGSEEHDA LIGMKARGRNQTWDEHEASSDFISQLKIKKKKMA  
SDQEQLASKLDKALSLTKQDKLKSPFKFSDSAGGSKTSGGCGRYLTPYDSLLGKNRKAL  
AKGLGLSLKSSREGKHKRAAKTRKMEVGFKARGQPKSAHSPFAEVSSYSYNTDSEEDDE  
FLKDEWPAQGPSSSKLTPSLLCSMVAKNKAAGGPKLTRGLAAPRTLKPKPATSRKQPF  
CLLLREAEARSSFSDESSEESFDQDESSEEEDEEELEEEDEASGGGYRLGARERALSPGL  
EESGLGLLARFAASALPSPTVGPSSLVSVQLEAKQKARKKEERQSLLGTEFEYTDSESEVK  
VRKRSPAGLLRPKKGLGEPGPSLAAPTPGARGPDPSSPDKAKLAVEKGRKARKLRGPKEP  
GFEAGPEASDDDLWTRRRSERIFLHDASAAAPAVSTAPATKTSRCAKGGPLSPRKDAGR  
AKDRKDPRKKKKGEAGPGAGLPPRAPALPSEARAPHASSLTAAKRSKAKAKGKEVKKE  
NRGKGAVSKLMESMAAEEDFEPNQDSSFSDEHLPRGGAVRPLTPAPRSCIIDKDELK  
DGLRVLIPMDKLLYAGHVQTVHSPDIYRVVVEGERGNRPHIYCLEQLLQEAIIDVRPAS  
TRFLPQGTRIAAYWSQQYRCLYPGTVVRGLLDLEDDGDLITVEFDDGDTGRIPLSHIRLL  
PPDYKIQCAEPSPALLVPSAKRRSRKTSKDTGEGKDGGTAGSEEPGAKARGRGRKPSAKA  
KGDRAATLEEGNPTDEVPTPLALEPSSTPGSKKSPPEPVDKRAKAPKARPAPPQPSAP

PAFTSCPAPEPFAELPAPATSLAPAPLITMPATRPKPKKARAAEESGAKGPRRPGEAEAL  
LVKLDHEGVTSFKSKAKEALLREDPGAGGWQEPKSLLSLGSYPAAAGSSEPKAPWPKA  
TDGDLAQEPGPGLTFEDSGNPKSPDKAQAEQDGAEESESSSSSSSSSSSSSSSSSSSSGSE  
TEGEEEGDKNGDGGCGTGGRNCSAASSRAASPASSSSSSSSSSSSSSSSSSSSSSSSSS  
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSTDEDSSCSDDEAAPATAGPSAQAAALP  
TKATKQAGKARPSAHSFGKTPAPQPQAPPPQPTQPLQPKAQAGAKSRPKKREGVHLPTT  
KELAKRQRLPSVENRPKIAAFLPARQLWKWFGKPTQRRGMKGKARKLFYKAIVRGKEMIR  
IGDCAVFLSAGRNLPYIGRIQSMWESWGNMVRVKWFYHPEETSPGKQFHQQHWDQK  
SSRSLPAALRVSSQRKDFMERALYQSSSHVDENDVQTVSHKCLVVGLEQYEQMLKTKKYQD  
SEGLYYLAGTYEPTTGMIFSTDGVPVLC

>sp|043557|TNF14\_HUMAN Tumor necrosis factor ligand superfamily member 14 OS=Homo sapiens  
GN=TNFSF14 PE=1 SV=2

MEESVVRPSVFVVDGQTDIPFTRLGRSHRRQSCSVARVGLGLLLLLMGAGLAVQGWFLLQ  
LHWRLGEMVTRLDPGAGSWEQLIQERRSHEVNPAHLTGANSSLTGSGGPLLWETQLGL  
AFLRGLSYHDGALVVTKAGYYYIYSKVQLGGVGCPLGLASTITHGLYKTRPRYPPELELL  
VSQQSPCGRATSSSRVWWDSSFLGGVVHLEAGEKVVVRVLDERLVRRLDGRSYFGAFMV

>sp|P48023|TNFL6\_HUMAN Tumor necrosis factor ligand superfamily member 6 OS=Homo sapiens  
GN=FASLG PE=1 SV=1

MQQPFNYPPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPQRRPPPPPPPLPPPPPP  
PPLPPLPLPPLKKRGNHSTGLCLLMFVVLVALVGLGLGMFQLFHLQKELARESTSQ  
MHTASSLEKQIGHPSPPPEKKELRKVAHLTGKSNRSMPLEWEDTYGIVLLSGVKYKKG  
LVINETGLYFVYSKVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMMEGKMMSYCTTGQMW  
RSSYLGAFFNLTSADHLYVNVSELSLVNFEESTFFGLYKL

>sp|Q9UKE5|TNIK\_HUMAN TRAF2 and NCK-interacting protein kinase OS=Homo sapiens GN=TNIK  
PE=1 SV=1

MASDSPARSLDEIDLSALRDPAGIFELVELVGNGTYGQVYKGRHVKTGQLAAIKVMDVTG  
DEEEEIKQEIINMLKKYSHRNIAITYYGAFIKKNPPGMDDQLWLVMEFCGAGSVTDLIKNT  
KGNTLKEEWIAYICREILRGLSHLHGHKVIHRDIKGQNVLLTENAELVDFGVSAQLDR  
TVGRRNTFIGTPYMAPEVIACDENPDATYDFKSDLWSLGITAIEMAEGAPPLCDMHMPMR  
ALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPATEQLMKHPFIRDQPNERQVRI  
QLKDHIDRTKKRGEKDETEYEYSGSEEEEEENDSGEPSSILNLPGESTLRRDFLRQLA  
NKERSEALRRQLEQQQRENEEHKQRLAERQKRIEEQKEQRRRLEEQQRREKELRKQ  
REQRRHYEEQMRREEERRRAEHEQEYIRRQLEEEQRQLEILQQQLLHEQALLLEYKRKQ  
EEQRQAERLQRQLKQERDYLVSQHQHQEQRPVEKKPLYHYKEGMSPSEKPAWAKEVEER  
SRLNRQSSPAMPHKVNRI SDPNLP RSEFSISGVQPARTPPMLRPVDPQIPHLVAVKS  
QGPALTASQSVHEQPTKGLSGFQEALNVTSHRVEMPRQNSDPTSENPLPTRIEKFRSS  
WLRQEEDIPPKVPQRTTISIPALARKNSPGNGSALGPRLGSQPIRASNPDLRRTEPILES  
PLQRTSSGSSSSSTPSSQPSSQGSQPGSAGSSERTRVRANSKSEGSVLPHEPAKVK  
PEESRDITRPSRPASYKKAIDEDLTALAKELRELRIETNRPMKKVTDYSSSSESESE  
EEEEGESETHDGTAVSDIPRLIPTGAPGSNEQYNVGMVGTGLETSHADSFSGSISRE  
GTLMIRETSGEKKRSGHSDSNGFAGHINLPDLVQQSHSPAGTPTGLGRVSTHSQEMDSG  
TEYMGSSSTKASFPTFVDPVRYQTSPTDEDEDEESSAAALFTSELLRQEAKLNEARKI  
SVNVNPTNIRPHSDTPEIRKYKRFNSEILCAALWGVNLLVGTENGLMLLDRSGQGKVY  
NLINRRRFQQMDVLEGLNVLVTISGKKNKLRVYYLSWLRNRLHNDPEVEKKQGWITVGD

LEGC IHYKVVKYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVE  
EGQRLKVI FGSH TGFHVIDVDSGNSYDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYED  
EGVYVNTYGRITKDVVLQWGEMPTSVAYIHSNQIMGWGEKAIEIRSVETGHL DGVFMH KR  
AQRKFLCERN DKVFFASVRSGGSSQVFFMTLNRNSMMNW

>sp|Q13470|TNK1\_HUMAN Non-receptor tyrosine-protein kinase TNK1 OS=Homo sapiens GN=TNK1  
PE=1 SV=3

MLPEAGSLWLLKLLRDIQLAQFYWPILEELNVTREHFDVFKPEDLDGIGMRPAQRRLS  
EALKRLRSGPKSKNWVYKILGGFAPEHKEPTLPSPRHLPEPEGGLKCLIEGAVCRGE  
LLGSGCFGVVHRGLWTLPSGKSVPAVKSLRVGPEGPMGTGELGDFLREVSVMNLEHPHV  
LRLHGLVLGQPLQVMELAPLGS LHARLTAPAPTPLLVALLCFLRQLAGAMAYLGARG  
LVHRDLATRNLLASPRTIKVADFGLVRPLGGARGRYVMGGPRPIPYAWCAPESLRHGAF  
SSASDVWMFGVTLWEMFSGGEEPWAGVPPYLILQRLEDRARLPRPPLCSRALYSLALRCW  
APHPADRPSFSHLEGLLQEAGPSEACCVRDVTEPGALRMETGDPITVIEGSSSFHSPDST  
IWKGQNGRTFKVGSFPASAVTLADAGGLPATRPVHRGTPARGDQHPGSIDGDRKKANLWD  
APPARGQRRNMPLERMKGISRSLESVLSLGPRTGGGSSPPEIRQARAVPQGPGLPPRP  
PLSSSSPQPSQPSRERLPWPKRKPPHNHPMGMPGARKAAALSGGLSDPELQRKIMEVEL  
SVHGVTHQECQTALGATGGDVVS AIRNLKVDQLFHLSSRSRADCWRILEHYQWDLAASR  
YVLARP

>sp|Q9H2S6|TNMD\_HUMAN Tenomodulin OS=Homo sapiens GN=TNMD PE=1 SV=1

MAKNPPENCEDCHILNAEAFKSKICKSLKICGLVFGILALTLIVLFWGSKHFWPEVPPK  
AYDMEHTFYSNGEKKKIYMEIDPVTRTEIFRSGNGTDETLEVHDFKNGYTG IYFVGLQKC  
FIKTQIKVIEFSEPEEEIDENEEITTTFFEQSVIWVPAEKPIENRDFLKN SKILEICDN  
VTMYWINPTLISVSELQDFEEEGEDLHFPANEKKGIEQNEQWVVPQVKVEKTRHARQASE  
EELPINDYTENGIEFDPMLDERGYCCICYCRRGNRYCRRVCEPLLGYYPYPYCYQGGRVIC  
RVIMPCNWWVARMLGRV

>sp|P48788|TNNI2\_HUMAN Troponin I, fast skeletal muscle OS=Homo sapiens GN=TNNI2 PE=1  
SV=2

MGDEEKRNRITARRQHLKSVMLQIAATELEKEESRREA EKQNYLAEHCPPLHIPGSMSE  
VQELCKQLHAKIDAAEEKYDMEVRVQKTSKELED MNQKLFDLRGKFKRPPLRRVRMSAD  
AMLKALLGSKHKVCDLRANLKQVKKEDTEKERDLRDVG DWRKNIEEKSGMEGRKKMFES  
ES

>sp|P43489|TNR4\_HUMAN Tumor necrosis factor receptor superfamily member 4 OS=Homo sapiens  
GN=TNFRSF4 PE=1 SV=1

MCVGARRLGRGPCAALLLLGLGLSTVTGLHCVGDTYPSNDRCCHECRPGNGMVSRCSRSQ  
NTVCRPCGPGFYNDVSSKPCPCTWCNLRSGSERKQLCTATQDTVCRCRAGTQPLDSYK  
PGVDCAPCPPGHFSPGDNQACKPWTNCTLAGKHTLQPASNSSDAICEDRDPPATQPQETQ  
GPPARPITVQPTAEWPRTSQGPSTRPVEVPGRVAAAILGLVLGLLGPLAILLALYLL  
RRDQRLPPDAH KPPGGGSFRTPIQEEQADAHSTLAKI

>sp|P28908|TNR8\_HUMAN Tumor necrosis factor receptor superfamily member 8 OS=Homo sapiens  
GN=TNFRSF8 PE=1 SV=1

MRVLLAALGLLFLGALRAFPQDRPFEDTCHGNPSHYDKAVRRCYRCPMGLFPTQQCPQ  
RPTDCRKQCEPDYLD EADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVN  
SCARCFHHSVCPAGMIVKFPGTAQKNTVCEPASPGVSPACASPENCKEPSSGTIPQAKPT  
PVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDPGLSPTQPCPEGSGDC



RKQCEPDYYLDEAGRCTACVSCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC  
VPYPICAAETVTKPQDMAEKDTTFEAPPLGTQPD CNPTPENGEAPASTSPTQSLLVDSQA  
SKTLPIPTSAPVALSSTGKPVLDAGPVLFVWVILVLVVVVGSSAFLCHRRACRKRI RQKL  
HLCYPVQTSQPKLELVDSRPRRSSTQLRSGASVTEPVAEERGLMSQPLMETCHSVGAAYL  
ESLPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTVIVGTVKAELPEGRGL  
AGPAEPELEEELEADHTPHYPEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK

>sp|Q8N6T0|T06BL\_HUMAN Type 2 DNA topoisomerase 6 subunit B-like OS=Homo sapiens GN=TOP6BL  
PE=2 SV=3

MEGTAVAVFEILRFLIIHWKCDIDVSKGALLEGQLVISIEGLNSKHQANALHCVTTVASA  
GSLFGGMVLKFLKEIQSILPGISAKLTWTSEEGSYSQDMTGVTQPMIFEVDEKPRTL  
TDCLVIKHFLRKIIMVHPKVRHFHFSVKVNGILSTEIFGVENEPTLNLGNGIALLVDSQHY  
VRPNFGTIESHCSRIHPVLGHPVMLFIPEDVAGMDLLGELILTPAAALCPSPKVSSNQLN  
RISSVSIFLYGPLGLPLILSTWEQPMTTFFKDTSSLVDWKYHLCMIPNLDLNLDRDLVL  
PDVSYQVESSEEDQSQTMDPQGQTLLFLFVDFHSAFPVQMEIWGVYTLTTLHNAILV  
ESHVSVVQGSIQFTVDKVLEQHHQAAKAQKQLQASLSVAVNSIMSILTGSTRSSFRKMCLQ  
TLQAADTQEFRTKLHKVFREITQHQLHHCSCEVKQQLTLEKKDSAQGTEDAPDNSSLEL  
LADTSGQAENKRLKRGSPRIEEMRALRSARAPSPSEAAPRRPEATAAPLTPRGREHREAH  
GRALAPGRASLGSRLDVLWLQEVSNLSEWLSPSPGP

>sp|Q9POU1|TOM7\_HUMAN Mitochondrial import receptor subunit TOM7 homolog OS=Homo sapiens  
GN=TOMM7 PE=1 SV=1

MVKLSKEAKQRLQQLFKGSQFAIRWGFIPLVIYLGFKRGADPGMPEPTVLSLLWG

>sp|Q969P6|TOP1M\_HUMAN DNA topoisomerase I, mitochondrial OS=Homo sapiens GN=TOP1MT PE=1  
SV=1

MRVVRLRLRAALTLLGEVPRRPASRGVPGSRRTQKGS GARWEKEKHEDGVKWRQLEHKG  
PYFAPPYEPLPDGVRFFYEGRPVRLSVAEEVATFYGRMLDHEYTTKEVFRKNFFNDWRK  
EMAVEEREVIKSLDKCDFTEIHRYFVDKAAARKVLSREEKQKLKEEAELQQEFGYCILD  
GHQEKIGNFKIEPPGLFRGRGDHPKMGMLKRRITPEDVVINCSRDSKIPEPPAGHQWKEV  
RSDNTVTWLAAWTESVQNSIKYIMLNPCSKLKGETAWQKFETARRLRGFVDEIRSQYRAD  
WKSREMKTQRVALYFIDKLALRAGNEKEDGEAADTVGCCSLRVEHVQLHPEADGCQHV  
VEFDLGLKDCIRYYNRVPVEKPVYKNLQLFMENKDPRDDLFDRLLTTSLNHLQELMDGL  
TAKVFRTYNASITLQEQLRALTRAEDSIAAKILSYNRANRVVAILCNHQRATPSTFEKSM  
QNLQTKIQAKKEQVAEARAELRRARA EHKAGDGKSRSVLEKKRRLLEKLQEQLAQLSVQ  
ATDKEENKQVALGTSKLNLYDPRISIAWCKRFRVPVEKIYSKTQRERFAWALAMAGEDFE  
F

>sp|P11388|TOP2A\_HUMAN DNA topoisomerase 2-alpha OS=Homo sapiens GN=TOP2A PE=1 SV=3

MEVSPLQPVNENMQVNKIKKNEDAKKRLSVERIYQKKTQLEHILLRPDTYIGSVELVTQQ  
MWVYDEEDVGINYREVTFVPGLYKIFDEILVNAADNKQRDPKMSCIRVTIDPENNLISIWN  
NGKGIPVVEHKVEKMYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVE  
TASREYKMFQKTWMDNMGRAGEMELKPFNGEDYTCITFPDLSKFKMQSLDKDIVALMV  
RRAYDIAGSTKDVKVFNLGNKLPVKGFRSYVDMYLDKLDDETGNLKV IHEQVNRWEVC  
LTMSEKGFQQISFVNSIATSKGGRHVDYVADQIVTKLVDVVKKNKGGVAVKAHQVKNHM  
WIFVNALIENPTFDSQTKENMTLQPKSFGSTCQLSEKFIKAAIGCGIVESILNWVKFKAQ  
VQLNKKCSAVKHNRIGIPKLDDANDAGGRNSTECTLILTEGDSAKTLAVSGLGVVGRDK  
YGVFPLRGKILNVREASHKQIMENAEINNIKIVGLQYKKNYEDEDSLKTLRYGKIMIMT

DQDQDGSIIKGLLINFIIHNWPSLLRHRFLFEEFITPIVKVSKNKQEMAFYSLPEFEEWKS  
STPNHKKWKVKYYKGLGTSTSKEAKEYFADMKRHRIQFKYSGPEDDAIISLAFSKKQIDD  
RKEWLTNFMEDRRQRKLLGLPEDYLGQTTTYLTYNDFINKELILFSNSDNERSIPSMVD  
GLKPGQRKVLFTCFKRNDKREVKAQLAGSVAEMSSYHHGEMSLMMTIINLAQNFVGSNN  
LNLQPIGQFGTRLHGKDSASPRYIFTMLSSLARLLFPPKDDHTLKFLYDDNQRVPEPW  
YIPIIPMVLINGAEGIGTGWSCKIPNFDVREIVNNIRRLMDGEEPLPMLPSYKNFKGTIE  
ELAPNQYVISGEVAILNSTTIEISELPVRTWTQTYKEQVLEPMLNGTEKTPPLITDYREY  
HTDTTVKFVVKMTEEKLAEAEVGLHKVFKLQTSLTCNSMVLFDHVGCLKKYDVLDIR  
DFFELRLKYYGLRKEWLLGMLGAESAKLNNQARFILEKIDGKIIENKPKKELIKVLIQR  
GYSDPDKAWKEAQQKVPDEEENEESDNEKETEKSDSVTDSGPTFNYLLDMPLWYLTKEK  
KDELCRLRNEKEQELDTLKRKSPSDLWKEDLATFIEELEAVEAKEKQDEQVGLPGKGGKA  
KGKKTQMAEVLSPRGQRVIPRITIEKAEAEKKNKKIKNENTEGSPQEDGVELEGLKQ  
RLEKKQKREPGTKTKKQTTLAFKPIKKGKKRNPWSDSESDRSSDESDFVPPRETEPRRA  
ATKTKFTMDLSDDEDFSDFDEKTDDEDFVPSDASPPKTKTSPKLSNKKELKPKQSVSDLE  
ADDVKGSVPLSSPPATHFPDETEITNPVPKKNVTVKKTAAKSQSSTSTTGAKKRAAPKG  
TKRDPALNSGVSKPDPAKTKNRRKRKPSTSDSDSNFEKIVSKAVTSKSKGESDDFHM  
FDFAVAPRAKSVRAKKPIKYLEESDEDDL

>sp|Q8N2E6|TOR2X\_HUMAN Prosalusin OS=Homo sapiens GN=TOR2A PE=1 SV=1

MAAATRGCRPWGSLGLLVSAWDLASLRCTLGAFCECDFRPDLPGLECDLAQHL  
AGQHLAKALVVKALAFVRDPAPTKPLVLSLHGWGTGKSYVSSLLAHYLFQGGLRSPRV  
HHFSPVLHFPHPSHIERYKKDLKSWVQGNLTACGRSLFLFDEMDKMPPGLMEVLRPFLGS  
SWVVGTYNRKAIFIFIRWLLKLGHGRAPRRSGALPPAPAAPRALRAQRAGPAGPGA  
KG

>sp|094842|TOX4\_HUMAN TOX high mobility group box family member 4 OS=Homo sapiens GN=TOX4  
PE=1 SV=1

MEFPGGNDNYLTITGPSHPFLSGAETFHTPSLGDEEFEIPPIISLSDPSLAVSDVVGHFD  
DLADPSSSQDGSFSAQYGVQTLDMVPVGMTHGLMEQGGGLSGGLTMDLDHSIGTQYSANP  
PVTIDVPMTDMTSGLMGHSQTLTIDQSELSSQLGLSLGGGTILPPAQSPEDRLSTTPSPT  
SSLHEDGVEDFRRQLPSQKTVVVEAGKKQKAPKKRKKKDPNEPQKPVSAAYALFFRDTQAA  
IKGQNPNAFTGEVSKIVASMWDSLGEQKQVYKRKTEAAKKEYLKALAAKDNQECQATV  
ETVELDPAPPSQTPSPPPMATVDPASPAPASIEPPALSPSIVVNSTLSSYVANQASSGAG  
GQPNITKLIITKQMLPSSITMSQGGMVTVIPATVVTSRGLQLGQTSTATIQPSQQAQIVT  
RSVLQAAAAAASMQLPPLQPPPLQMPQPPTQQQVTLQPPPLQAMQPPPQKV  
RINLQQQPPLQIKSVPLPTLKMQTTLVPPTVESSPERPMNNSPEAHTVEAPSPETICEM  
ITDVPEVESPSQMDVELVSGSPVALSPQPRCVRSGCENPPIVSKDWDNEYCSNECVVKH  
CRDVFLAWVASRNSNTVVVK

>sp|075865|TPC6A\_HUMAN Trafficking protein particle complex subunit 6A OS=Homo sapiens  
GN=TRAPPC6A PE=1 SV=2

MADTVLFEFLHTEMVAELWAHDPDPGGQKMSLSVLEGMGFRVGQALGERLPRETLAFR  
EELDVLKFLCKDLWVAVFQKQMDSLRTNHQGTIVLQDNSFPLLLPMASGLQYLEEAPKFL  
AFTCGLLRGALYTLGIESVVTASVAALPVCKFQVVIPKS

>sp|P60174|TPI1\_HUMAN Triosephosphate isomerase OS=Homo sapiens GN=TPI1 PE=1 SV=3

MAEDGEEAEFHFAALYISGQWPRLRADTDLQRLGSSAMAPSRKFFVGGNWKMNKRKQSLG  
ELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAFTGEISPGM

IKDCGATWVVLGHSERRHVFGESEDELIGQKVAHALAEGLGVACIGEKLDEREAGITEKV  
VFEQTKVIADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQ  
STRIIYGGSVTGATCKELASQPDVDGFLVGGASLKPEFVDIINAKQ

>sp|P09493|TPM1\_HUMAN Tropomyosin alpha-1 chain OS=Homo sapiens GN=TPM1 PE=1 SV=2

MDAIIKKMQMLKLDKENALDRAEQAEADKKAEDRSKQLEDELVSLQKKLKGTEDELDKY  
SEALKDAQEKLELAEEKATDAEADVASLNRRRIQLVEEELDRAQERLATALQKLEEAKEAA  
DESERGMKVIESRAQKDEEKMEIQEIQLEAKHIAEDADRKYEEVARKLVIIESDLERA  
ERAELSEGKCAELEELKTVTNNLKSLEAQAEKYSQKEDRYEEEIKVLSDKLKEAETRAE  
FAERSVTKLEKSIDDELEYAQLKYKAISEELDHALNDMTSI

>sp|P07951|TPM2\_HUMAN Tropomyosin beta chain OS=Homo sapiens GN=TPM2 PE=1 SV=1

MDAIIKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQALQKKLKGTEDEVEKY  
SESVEAQEKLEQAEKKATDAEADVASLNRRRIQLVEEELDRAQERLATALQKLEEAKEAA  
DESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSE  
ERA EVAESKCGDLEELKIVTNNLKSLEAQADKYSTKEDKYEEEIKLLEEKLKEAETRAE  
FAERSVAKLEKTIDDELEVYAQKMKYKAISEELDNALNDITS

>sp|P67936|TPM4\_HUMAN Tropomyosin alpha-4 chain OS=Homo sapiens GN=TPM4 PE=1 SV=3

MAGLNSLEAVKRRIQALQQQADEADRAQGLQRELDGERERREKAEGDVAALNRRRIQLVE  
EELDRAQERLATALQKLEEAKEAADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAE  
EADRKYEEVARKLVILEGELERAEEERA EVSELKCGDLEELKNVTNNLKSLEAASEKYSE  
KEDKYEEEIKLSDKLKEAETRAEFAERTVAKLEKTIDDEEKLAQAKEENVGLHQTLDQ  
TLNELNCI

>sp|P40225|TPO\_HUMAN Thrombopoietin OS=Homo sapiens GN=THPO PE=1 SV=1

MELTELLLVVMLLLTARLTSSPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPV  
LLPAVDFSLGEWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLGQLSGQVRL  
LLGALQSLLGTQLPPQGRRTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTT  
AVPSRTSLVLTNLNPNRTSGLLETNFTASARTTGSGLLKWQQGFRAKIPGLLNQTSRSL  
DQIPGYLNRIHELLNGTRGLFPGPSRRTLGA PDISSGSDTGSLPPNLQPGYSPSPTHPP  
TGQYTLFPLPPTLTPVVLHPLLPDPSAPTPTPTSPLNTSYTHSQNLSQEG

>sp|O60704|TPST2\_HUMAN Protein-tyrosine sulfotransferase 2 OS=Homo sapiens GN=TPST2 PE=1  
SV=1

MRLSVRRVLLAAGCALVVLAVQLGQQVLECRVLAGLRSPRGAMRPEQEELVMVGTNHV  
EYRYGKAMPLIFVGGVPRSGTTLMRAMLDAHPEVRCGEETRIIPRVLAMRQAWSKSGREK  
LRLDEAGVTDEVDAAMQAFI LEVIAKHGEPARVLCNKDPFTLKSSVYLSRFPNSKFL  
MVRDGRASVHSMITRKVTIAGFDLSSYRDCLTKWNKAI EVMYAQCMEVGKEKCLPVYEQ  
LVLHPRRSLKLILDFLGIAWSDAVLHHEDLIGKPGGVSLSKIERSTDQVIKPVNLEALSK  
WTGHIPGDVVRDMAQIAPMLAQLGYDPYANPPNYGNPDPFVINNTQRVLKG DYKTPANLK  
GYFQVNQNSTSSHLGSS

>sp|Q6XPS3|TPTE2\_HUMAN Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2  
OS=Homo sapiens GN=TPTE2 PE=1 SV=2

MNESPQTNEFKGTTEEAPAKESPHTSEFKGAALVSPISKSMLERLSKFEVEDAENVASYD  
SKIKKIVHSIVSSFAFGIFGVFLVLLDVTLLADLIFTDSKLYIPLEYRSISLAIGLFFL  
MDVLLRVFVEGRQQYFSDLFNILDTAIIVIPLLVDVIYIFFDIKLLRNIPR WTHLVRLLR  
LIILIRIFHLLHQKRLQEKLMRRLVSENKRRYTRDGFDLDTYVTERI IAMSFPSSGRQS  
FYRNPIEEVVRF LDKKHRNHRYVYNLC SERAYDPKHFNHNRVSRIMIDHDHNVPTLHEMVVF

TKEVNEWMAQDLENIVAIHCKGGKGRTGTMVCALLIASEIFLTAEESLYYFGERRTNKTH  
SNKFQGVETPSQNRVYGYFAQVKHLYNNLPPRRILFIKRFIIYSIRGDVCDLKVQVME  
KKVVSSTSLGNCISLHDIETDKILINVYDGPPLYDDVKVQFFSSNLPKYDNCPPFFWF  
NTSFIQNNRLCLPRNELDNPHKQKAWKIYPPEFAVEILFGEK

>sp|000300|TR11B\_HUMAN Tumor necrosis factor receptor superfamily member 11B OS=Homo sapiens GN=TNFRSF11B PE=1 SV=3

MNNLLCCALVFLDISIKWTTQETFPKYLYHYDEETSHQLLCDKCPPGYLKHCTAKWKT  
VCAPCPDHYTDSWHTSDECLYCSVPCKELQYVKQECNRTHNRVCECKEGRYLEIEFCLK  
HRSCPPGFGVVQAGTPERNTVCKRCPDGGFSNETSSKAPCRKHTNCSVFGLLLTQKGNAT  
HDNICSGNSESTQKCGIDVTLCCEAFFRFAVPTKFTPNWLSVLVDNLPGTKVNAESVERI  
KRQHSSQEQTFLKLWKHQNKDQDIVKKIIQDIDLCENSVQRHIGHANLTFEQLRSLME  
SLPGKKVGAEDIEKTIKACKPSDQILKLLSLWRIKNGDQDTLKGLMHALKHSKTYHFPKT  
VTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNQVQSVKISCL

>sp|A6NMA1|TR50S\_HUMAN Putative uncharacterized protein TRPC50S OS=Homo sapiens GN=TRPC50S PE=4 SV=1

MDSVLIHVLIDGLVACVAQLIRIADELLQFILQVQEVVYEENGRAEETEADAPLPEEPS  
LPDLPDLSDLISILTPREDEDLIFDIDQAMLDMDNLYEDTVSGINDDLTGD

>sp|Q12931|TRAP1\_HUMAN Heat shock protein 75 kDa, mitochondrial OS=Homo sapiens GN=TRAP1 PE=1 SV=3

MARELRALLLWGRRLRPLLAPALAAVPGGKPILCPRRTTAQLGPRRNPAWSLQAGRLFS  
TQTAEDKEEPLHSIISSTESVQGSGSKHEFQAETKKLLDIVARSLYSEKEVFIRELISNA  
SDALEKLRHKLVSQGALPEMEIHLQTNAEKGTITIQDTGIGMTQEELVSNLGTIARSGS  
KAFLDALQNQAEASSKIIGQFVGFGYSAFMVADRVEVYSRSAAPGSLGYQWLSGSGVFE  
IAEASGVRTGTKIIHLSKDCKEFSSEARVRDVVTKYSNFVSFPLYLNGRRMNTLQAIWM  
MDPKDVREWQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIYFVPMKPSMFVDSRELG  
SSVALYSRKVLITQKATDILPKWLRFIRGVVDESDIPLNLSRELLQESALIRKL RDVLQQ  
RLIKFFIDQSKKDAEKYAKFFEDYGLFMREGIVTATEQEVKEDIAKLLRYESSALPSGQL  
TSLSEYASRMAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDTEVLFCFEQFDELTLHLR  
EFDKKKLSVETDIVVDHYKEEFEDRSPAAECLSEKETEELMAWMRNVLSRVTVNKVT  
LRLDTHPAMVTVLEMGAARHFLRMQQAKTQEERAQLLQPTLEINPRHALIKKLNQLRAS  
EPGLAQLLVDDQIYENAMIAAGLVDDPRAMVGRNLNELLVKALERH

>sp|P07204|TRBM\_HUMAN Thrombomodulin OS=Homo sapiens GN=THBD PE=1 SV=2

MLGVLVLGALALAGLGFPAEPQPGGSQCVEHDCFALYPGPATFLNASQICDGLRGHLM  
TVRSSVAADVISLLLNGDGGVGRRRLWIGLQLPPGCGDPKRLGPLRGFQWVTGDNNTSYS  
RWARLDLNGAPLCGPLCAVSAAEATVPSEPIWEEQQCEVKADGFLCEFHFPATCRPLAV  
EPGAAAAVSITYGTPFAARGADFQALPVGSSAAVAPLGLQLMCTAPPGAVQGHWAREAP  
GAWDCSVENGCEHACNAIPGAPRCQCPAGAALQADGRSCTASATQSCNDLCEHFCVNP  
DQPGSYSCMCETGYRLAADQHRCEDVDDCILEPSPCQRCVNTQGGFECHCYPNYDLVDG  
ECVEPVDPCEFRANCEYQCQPLNQTSYLCVCAEGFAPIPHEPHRCQMFCNQATACPADCDPN  
TQASCECEGYILDDGFICTDIDECENGFGCSGVCHNLPGTFECICGPDALARHIGTDC  
DSGKVDGGDSGSGEPPPSPTPGSTLTPPAVGLVHSGLLIGISIASLCLVALLALLCHLR  
KKQGAARAKMEYKCAAPSKEVVLQHVRTERTPQRL

>sp|O43280|TREA\_HUMAN Trehalase OS=Homo sapiens GN=TREH PE=1 SV=2

MPGRTWELCLLLLLGLGLGSQEALPPPCESEIYCHGELLNQVQMAKLYQDDKQFVDMPLS

IAPEQVLQTFTELSRDHNHSSIPREQLQAFVHEHFQAKGQELQPWTPADWKDSPQFLQKIS  
DAKLRAWAGQLHLWKKLGKKMKPEVLSHPERFSLIYSEHPFIVPGRFVEFYWDSYVW  
MEGLLLSEMAETVKGMLQNFLDLVKTYGHVPNGGRVYYLQRSQPPLTLMMDCYLTHNTD  
TAFLENIETLAELEDFWTKNRTVSVSLEGKNYLLNRYYPYGGPRPESYSKDVELADTL  
PEGDREALWAEKAGAESGWDFSSRWLIGGPNPNSLSGIRTSKLVVDLNAFLCQAEELM  
SNFYSRLGNDSSQATKYRILRSQRLAALNTVLWDEQTGAWFDDYDLEKKKKNREFYPSNLTP  
LWAGCFSDPGVADKALKYLEDNRILTYQYGIPTSLQKTGQWDFPNAWAPLQDLVIRGLA  
KAPLRRAEVAFQLAQNWIRTNFDVYSQKSAMYEKYDVSNGGQPGGGGEYEVQEGFGWTN  
GVVLMLLDRYGDRLTSGAKLAFLEPHCLAATLLPSLLLSLLPW

>sp|P08582|TRFM\_HUMAN Melanotransferrin OS=Homo sapiens GN=MELTF PE=1 SV=2

MRGPSGALWLLLALRTVLGGMEVRWCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTS  
DHCVQLIAAQEADAITLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVRRSSHVT  
IDTLKGVKSCHTGINRTVGWNVPVGYLVESGRLSVMGCDVLKAVSDYFGGSCVPGAGETS  
YSESLCRLCRGDSSGEGVCDKSPLEYYDYSGAFRCLAEGAGDVAFAVKHSTVLENTDGKT  
LPSWGQALLSQDFELLCRDGSRADVTEWRQCHLARVPAHAVVVRADTDGGLIFRLLNEGQ  
RLFSHEGSSSQMFSSSEAYGQKDLLFKDSTSELVPIATQTYEAWLGHEYHAMKGLLCDPN  
RLPPYLRWCVLSTPEIQKCGDMAVAFRRQRLKPEIQCVSAKSPQHMERIQAEQVDAVTL  
SGEDIYTAGKTYGLVPAAGEHYAPEDSSNSYYVAVVRRDSSHAFTLDELRGKRSCHAGF  
GSPAGWDVPVGALIQRGFIRPKDCDVLTAVERSEFFNASCVPVNNPKNYPSSLCALCVGDEQ  
GRNKCVCNSQERYYYGRGAFRCLVENAGDVAFVRHTTVFDNTNGHNSEPWAAELRSEDYE  
LLCPNGARAEVSQLAACNLAIIPHAVMVRPDTNIFTVYGLLDKAQDLFGDDHNKNGFKM  
FDSSNYHGQDLLFKDATVRAVPVGEKTTYRGWLGLDYVAALEGMSQQCSGAAAPAPGAP  
LLPLLLPALAARLLPPAL

>sp|P03979|TRGV3\_HUMAN T cell receptor gamma variable 3 (Fragment) OS=Homo sapiens  
GN=TRGV3 PE=2 SV=2

MRWALLVLLAFLSPASQKSSNLEGRKTSVTRQTGSSAEITCDLTVTNTFYIHWYHQQEGK  
APQRLLYYDVSTARDVLESGLSPGKYTHTPRRWSWILRLQNLIENDSGVYYCATWDR

>sp|P20396|TRH\_HUMAN Pro-thyrotropin-releasing hormone OS=Homo sapiens GN=TRH PE=1 SV=1

MPGPWLLLALALTLNLTGVPGGRAQPEAAQQEAVTAAEHPGLDDFLRQVERLLFLRENTQ  
RLQGDQGEHSASQIFQSDWLSKRQHPGKREEEEEEGVEEEEEEGGAVGPHKRQHPGRRE  
DEASWSVDVTQHKRQHPGRRSPWLAYAVPKRQHPGRRADPKAQRSWEEEEEEEEEREEDL  
MPEKRQHPGKRALGGPCGPQAYGQAGLLLGLLDDLRSQGAEEKRQHPGRRAAWVREPL  
EE

>sp|Q14142|TRI14\_HUMAN Tripartite motif-containing protein 14 OS=Homo sapiens GN=TRIM14  
PE=2 SV=2

MAGAATGSRTPGRSELVEGCGWRCPEHGDRVAELFCRRRCRCVCALCPVLGAHRGHPVGL  
ALEAAVHVQKLSQECLKQLAIKKQQHIDNITQIEDATEKLKANAESSKTWLKGFTELRL  
LLDEEEALAKKFIDKNTQLTLQVYREQADSCREQLDIMNDLSNRVWSISQEPDPVQRLQA  
YTATEQEMQQMSLGECHPVPLSFEPVKSFFKGLVEAVESTLQTPLDIRLKESINCQLS  
DPSSTKPGTLLKTSPPERSLLLYARTPTLDPDTMHARLRLSADRLTVRCGLLGSGLPV  
PVLRFDALWQVLARDCFATGRHYWEVDVQEAGAGWWVGAAYASLRRRGASAAARLGCNRQ  
SWCLKRYDLEYWAFHDGQRSRLRPDDLRLGVFLDYEAGVLAFYDVTGGMSHLHTFRAT  
FQEPLYPALRLWEGAISIPRLP

>sp|095361|TRI16\_HUMAN Tripartite motif-containing protein 16 OS=Homo sapiens GN=TRIM16 PE=1 SV=3

MAELDLMAPGPLPRATAQPPAPLSPDSGSPSPDSGSASPVEEEDVGSSEKLGRETEEQDS  
DSAEQGDPAEGKEVLCDFCLDDTRRVKAVKSCLTCMVNYCEEHLQPHQVNIKLQSHLLT  
EPVKDHNWRYCPAHHSPLSAFCCPDQQCICQDCCQEHS GHTIVSLDAARRDKEAELQCTQ  
LDLERKCLKLNENAI SRLQANQKSVLVS VSEVKAVAEMQFGELLA AAVRKAQANVMLFLEEK  
EQAALSQANGIKAHLEYRSAEMEKSQELERMAAISNTVQFLEEYCKFKNTEDITFPSVY  
VGLKDKLSGIRKVITESTVHLIQ LLENYKKKLQEF SKEEYDIRTQVS AVVQRKYWTSKP  
EPSTREQFLQYAYDITFDPDTAHKYLRLQEENRKVTNTTPWEHPYDLP SRFLHWRQVLS  
QQSLYLHRYFFEVEIFGAGTYVGLTCKGIDRKGEERNSCISGNNFSWSLQWNGKEFTAWY  
SDMETPLKAGPFRRLLGVYIDFPGGILSFYGYEYDTMTLVHKFACKFSEPVYAAFWSKKE  
NAIRIVDLGEEPEKPAPSLVGTAP

>sp|Q14258|TRI25\_HUMAN E3 ubiquitin/ISG15 ligase TRIM25 OS=Homo sapiens GN=TRIM25 PE=1 SV=2

MAELCPLAEEELSCSICLEPFKEPVTTPCGHNFCGSCLNETWAVQGSPYLCPCRAVYQAR  
PQLHKNTVLCNVVEQFLQADLAREPPADVWTPPARASAPSPNAQVACDHCLKEAAVKTCL  
VCMASFCQEHLQPHFDSPAQDHPQLQPPVRDLLRRKCSQHNRLREFFCPEHSECICHICL  
VEHKTCSPASLSQASADLEATLRHKLTVMYSQINGASRALDDVRNRQQDVRMTANRKVEQ  
LQQEYTEMKALLDASETTSTRKIKEEEKRVNSKFDTIYQILLKKKSEIQTLEEIEQSLT  
KRDEFEFLEKASKLRGISTKPVYIPEVELNHKLIGI HQSTIDLKNE LKQCIGRLQEPTP  
SSGDGPEHDPASTHKSTRPVKKVSKEEKKSKPPVPALPSKLPTFGAPEQLVDLKQAGL  
EAAAKATSSHPNSTSLKAKVLETFLAKSRPELLEYIYKVIDYNTAHNKVALSECYTVAS  
VAEMPQNYRPHPQRFTYCSQVLGLHCYKKGIHYWEVELQKNFCGVGICYGSMNRQGPES  
RLGRNSASWCVEWFNTKISAWHNNVEKTL PSTKATRVGVLLNCDHGFVIFFAVADKVHLM  
YKFRVDFTEALYPAFWVFSAGATLSICSPK

>sp|A6NK02|TRI75\_HUMAN Putative tripartite motif-containing protein 75 OS=Homo sapiens GN=TRIM75 PE=5 SV=2

MAVAAALTGLQAEAKCSICLDYSDPVTIECGHNFCRSCIQQSWLDLQELFPCPVCRHQC  
QEGHFRSNTQLGRMIEIAKLLQSTKSNKRKQEETTLCEKHNQPLSVFCKEDLMVLCPLCT  
QPPDHQGHVVRPIEKAAIHYRKRFC SYIQPLKKQLADLQKLISTQSKKPLELREMVENQR  
QELSSEFEHLNQFLDREQQAVLSRLAEEEKDNQQKLSANITAFS NYSATLKSQLSKVVEL  
SELSELELLSQIKIFYESENESSPSIFS IHLKRDGCSFPPQYSALQRIKKFKVEIILD P  
ETAHPNLIVSEDKKRVRFTRKQKQVPGFPKRFTVKPVVLGFPYFHSGRHFW EIEVGDKSE  
WAIGICKDSLPTKARRPSSAQQECWRIELQDDGYHAPGAFPTPLLEVKARAIGIFLDYE  
MGEISFYNMAEKSHICTFTDTFTGPLRPYFYVGPDSQPLRICTGTVCE

>sp|Q96RU7|TRIB3\_HUMAN Tribbles homolog 3 OS=Homo sapiens GN=TRIB3 PE=1 SV=2

MRATPLAAPAGSLSRKKRLELDDNLDTERPVQKRARSGPQPRLPCLLPSPPTAPDRAT  
AVATASRLGPYVLLPEEGGRAYQALHCPTGTEYTC KVYPVQEALAVLEPYARLP PHKHV  
ARPTEVLAGTQLLYAFFTRTHGDMHSLVRSRHRIPEPEAAVLF RQMATALAHCHQHGLVL  
RDLKLCRFVFA DRERKKLVLENLEDS CVLTGPDDSLWDKHACPAYVGPEILSSRASYS GK  
AADVWSLGVALTMLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP  
AERLTATGILLHPWL RQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEG DREVVLG

>sp|Q9C029|TRIM7\_HUMAN Tripartite motif-containing protein 7 OS=Homo sapiens GN=TRIM7 PE=1 SV=2

MAAVGPRTGPGTGAEALALAAELQGEATCSICLELFREPVSVECGHSFCRACIGRCWERP  
GAGSVGAATRAPPFPLPCPQCREPARPSQLRPNRQLAAVATLLRRFSLPAAAPGEHGSQA  
AAARAAAARCGQHGEFPFLYQDDGRAICVVCDRAREHREHAVLPLDEAVQEAKELLESR  
LRVLKKELEDCEVFRSTEEKESKELLKQMAAEQEKVGAEFQALRAFLVEQEGRLGRLEE  
LSREVAQKQENLAQLGVEITQLSKLSSQIQETAQKPDLDLQEFKSTLSRCSNVPGPKP  
TTVSSEMKNKVWNVSLKTFVLKGMKKFKEDLRGELEKEEKVELTDPDTANPRLILSLD  
LKGVRGGERAQLPNHPCRFDNTNRVLASCGFSSGRHHWEVEVGSKDGWAFGVARESVRR  
KGLTPFTPEEGVWALQLNGGQYWAVTSPERSPLSCGHLRVRVALDLEVGAVSFYAVEDM  
RHLYTFRVNFQERVFLFSVCSTGTYLRIWP

>sp|Q9NXH9|TRM1\_HUMAN tRNA (guanine(26)-N(2))-dimethyltransferase OS=Homo sapiens  
GN=TRMT1 PE=1 SV=1

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTPYGEERPREVQETTVEG  
AAKIAFPSANEVFYNPVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVDLS  
EQEEKVELKESENASGDQPRTAAVGEICEGLHVLEGLAASGLRSIRFALEVPLRSV  
VANDASTRAVDLIRRNVLNDVAHLVQPSQADARMLMYQHQRVSEFDFVIDLDPYGSPAT  
FLDAAVQAVSEGGLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD  
LRANCYQRFVVPLLSISADFYVRVVRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLG  
KASGVPSGRAKFSACGPPVTPECEHCGQRHQLGGPMWAEPIHDLDFVGRVLEAVSANPG  
RFHTSERIRGVLSVITEELPDVPLYTLDQLSSTIHCNTPSLLQLRSALLHADFRVSLSH  
ACKNAVKTDPASALWDIMRCWEKECPVKRERLSETSPAFRILSVEPRLQANFTIREDAN  
PSSRQRGLKRFQANPEANWGPRPRARPGKAADEAMEERRRLQNKREPPEDVAQRAAR  
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTPPPGGAAAGPGID

>sp|P01848|TCA\_HUMAN T-cell receptor alpha chain C region OS=Homo sapiens GN=TRAC PE=1  
SV=1

PNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKSDVYITDKTVLDMRSMDFKS  
NSAFAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLFQNLVIG  
FRILLKLVAGFNLLMTLRLWSS

>sp|Q9BQ70|TCF25\_HUMAN Transcription factor 25 OS=Homo sapiens GN=TCF25 PE=1 SV=1

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RFELINIDDLDDPVVNGERSGCALTDVAPGNKGRGQRGNTESKTDGDDTETVPSEQSH  
ASGKLKRRKKKKQKNKSSTGEASENGLEDIDRILERIEDSTGLNRPGAPLSSRKHVLYV  
EHRHLNPDTELKRYFGARAILGEQRPRQRVYPKCTWLTTPKSTWPRYSKPGLSMRLL  
SKKGLSFFAFEHSEYYQQAQHKFLVAVESMEPNIVVLLQTSYPYHVSLLQLSDACRFQE  
DQEMARDLVERALYSMECAFHPLFSLTSGACRLDYRRPENRSFYLLYKQMSFLEKRGCP  
RTALEYCKLILSLEPDEDPLCMLLLIDHLALRARNYEYLIRLFQEWEAHRNLSQLPNFAF  
SVPLAYFLLSQQTDLPECEQSSARQKASLLIQQALTMFPGVLLPLESCSVRPDASVSSH  
RFFGPNAEISQPPALSQLVNLYLGRSHFLWKEPATMSWLEENVHEVLQAVDAGDPAVEAC  
ENRRKVLYQRAPRNIHRHVLSEIKEAVAALPPDVTTQSVMGFDPLPPSDTIYSYVRPER  
LSPISHGNTIALFFRSLLPNYTMEEGERPEEGVAGGLNRNQLNRLMLAVRDMMANFHLND  
LEAPHEDDAEAGEGEWD

>sp|Q7RTU0|TCF24\_HUMAN Transcription factor 24 OS=Homo sapiens GN=TCF24 PE=3 SV=3

MDGRPAGSPLSASAEPAPLAAAIRDSRPGRTGPGPAGPGGSGRSGRPAAANAARERS  
RVQTLRHAFLELQRTLPSVPPDTKLSKLDVLLLATYIAHLTRSLQDDAEAPADAGLGAL  
RGDGYLHPVKKWPMRSRLYIGATGQFLKHSVSGEKTNHDNTPTDSQP

>sp|P20062|TCO2\_HUMAN Transcobalamin-2 OS=Homo sapiens GN=TCN2 PE=1 SV=3

MRHLGAFLLGLGALTEMCEIPEMDSHLVEKLGQHLLPWMDRLSLEHLNPSIYVGLRL  
SSLQAGTKEDLYLHSLKLGYYQCLLGSFSEDDGDCQGKPSMGLALYLLALRANCEFVR  
GHKGDRLVSQLKWFLEDEKRAIGHDHKGHPHTSYYYQYGLGILALCLHQKRVHDSVVDKLL  
YAVEPFHQGHHSVDTAAMAGLAFTCLKRSNFPGRQRITMAIRTVREEILKAQTPEGHF  
GNVYSTPLALQFLMTSPMRGAELGTACLKARVALLASLQDGAFQNALMISQLLPVLNHKT  
YIDLIFPDCLAPRVMLEPAAETIPQTQEIIISVTLQVLSLLPPYRQSISVLAGSTVEDVLK  
KAHELGGFTYETQASLSGPYLTSVMGKAAGEREFWQLLRDPNTPLLQGIADYRPKDGETI  
ELRLVSW

>sp|Q13428|TCOF\_HUMAN Treacle protein OS=Homo sapiens GN=TCOF1 PE=1 SV=3

MAEARKRRELLPLIYHLLRAGYVRAAREVKEQSGQKCFLAQPVTLLDIYTHWQQTSELG  
RKRKAEEDAALQAKKTRVSDPISTSESSEEEEEAEETAKATPRLASTNSSVLGADLPSS  
MKEKAKAETEKAGKTGNSMPHPATGKTVANLLSGKSPRKSAPESANTTLVSETEEEGSPV  
AFGAAAKPGMVSAGQADSSSEDTSSSSDETVEGKPSVKPAQVKASSVSTKESPAKAAAP  
APGKVGDVTPQVKGGALPPAKRAKKPEEESESSEEGSESEEEAPAGTRSQVKASEKILQV  
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QAKASGKTSQVGAASAPAKESPRKGAAPAPPKGTGPAVAKAQAGKREEDSQSSSEESDSE  
EEAPAQAQPSGKAPQVRAASAPAKESPRKGAAPAPPRKTGPAAAQVQVGKQEEDSRSSSE  
ESDSDREALAAMNAAQVKPLGKSPQVKPASTMGMGPLGKGAGVPPGKVGPAATPSAQVGK  
WEEDSESSSEESSDSDGEVPTAVAPAEKSLGNILQAKPTSSPAKGPPQKAGPVAVQVK  
AEKPMDNSESSESSDSADSEEAPAAMTAAQAKPALKIPQTKACPKTNTTASAKVAPVR  
VGTQAPRKAGTATSPAGSSPAVAGGTQRPAEDSSSSEESDSEEEKTGLAVTVGQAKSVGK  
GLQVKAASVPVKGSLGQGTAPVLPKGTGPTVTQVKAQKQEDSESSEESDSEEEAASPAQ  
VKTSVKKTQAKANPAAARAPSAKGTISAPGKVVTAAQAKQRSPSKVKPPVRNPQNSTVL  
ARGPASVPSVGKAVATAAQAGTGEEDSGSSEESDSEEEAETLAQVKPSGKTHQIRAAL  
APAKESPRKGAAPTPPGKTGPSAAQAGKQDDSGSSEESDSDGEAPAAVTSAQVIKPLI  
FVDPNRSPAGPAATPAQAQAATPRKARASESTARSSSESEDEDVIPATQCLTPGIRTN  
VVTMPTAHPRIAPKASMAGASSKESRISDGKKQEGPATQVSKNPASLPLTQAALKVL  
AQKASEAQPVPVARTQPSSGVD SAVGTLPATSPQSTSVQAKGTNKLKPKLPEVQQATKAP  
ESSDSEDSSSSSGSEEDGEGPQGAHSAHTLGPTPSRTETLVEETAESSEDDVAPSQ  
SLLSGYMTPLTPANSQASKATPKLDSSPSVSSTLAAKDDPDGKQEAQQAAGMLSPKT  
GGKEAASGTTQKSRKPKKGAGNPQASTLALQSNITQCLLGQPWPLNEAQVQASVVKVLT  
ELLEQERKKVVDTTKESSRKGWESRKRKLSGDQPAARTPRSKKKKKLGAGEGGEASVSPE  
KTSTTSKKGAKRDKASGDVKEKKKGKSLGSQGAKEPEEELQKGMGTVEGGDQSNPKSKK  
EKKSDKRKKDKKKKKKKAKKASTKDESPSQKKKKKKKKTAEQTV

>sp|Q12799|TCP10\_HUMAN T-complex protein 10A homolog OS=Homo sapiens GN=TCP10 PE=2 SV=3

MLEGQLEAGEPEKETHPEDPCPGAGAAMEKTPAAAEPREDSNAGEMPQLQQQITSLHQE  
LGRQQSLWADIHRKLQSHMDALRKQRELREELRGLRQQWEAGKKPAASPHAGRESHTL  
ALEPAFGKISHLSAEDTTPKYAGRKSQSATLLGQRWSSNHLAPPKMSLKTERINSGKT  
PPQEDREKSPPGRRQDRSPAPTGRPTGAERRGVSEDGKIMHPSSRSPQNSGGRKSPVQA  
SQATTLQEQTAAARGADRSSSVLGSSEGGFLSRVQADEFASSAPDSAERQNLVPNPPSSL  
EIAQAMDTKMKKEEVQEEKRHPKKGADDCRRSGFPSEFPGALHAAPSRQDMGP

>sp|Q99832|TCPH\_HUMAN T-complex protein 1 subunit eta OS=Homo sapiens GN=CCT7 PE=1 SV=2

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DGATILKLLDVVHPAAKTLVDIAKSQDAEVDGTTSVTLAAEFLKQVKPYVEEGLHPQI  
IIRAFRTATQLAVNKIKEIAVTVKKADKVEQRKLEKCAMTALSSKLISQQKAFFAKMVV  
DAVMMLDDLQLKMGIGIKKVQGALEDSQLVAGVAFKKTFSYAGFEMQPKKYHNPKIALL  
NVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSKAKVVL SKLPIGDVAT  
QYFADRD MF CAGRVPEEDLKRTMMACGGS IQTSVNALSADVLGRCQVFEETQIGGERYNF  
FTGCPKAKTCTFILRGGAEQFMEETERSLHDAIMIVRRAIKNDSV VAGGGA IEMELSKYL  
RDYSRTIPGKQQLLIGAYAKALEIIPRQLCDNAGFDATNILNKLRRARHAQGGTWYGV DIN  
NEDIADNFEAFVWEPAMVRINALTAASEAACLIVSVDETIKNPRSTVDAPTAAGRGRGRG  
RPH

>sp|P51864|TDGF3\_HUMAN Putative teratocarcinoma-derived growth factor 3 OS=Homo sapiens  
GN=TDGF1P3 PE=5 SV=1

MDCRKMVRFSYSVIWIMAISKAFELGLVAGLGHQEFARPSRGDLAFRDDSIWPQEEP AIR  
PRSSQVRVLP MGIQHSKELNRTCCLNGGTCMLESFCACPPSFYGRNCEHDVRKENCGSVPH  
DTWLPPKKCSLCKCWHGQLRCFPQAFLPGCDGLVMDEHLVASRTPELPPSARTTTFMLAGI  
CLSIQSY

>sp|Q99594|TEAD3\_HUMAN Transcriptional enhancer factor TEF-5 OS=Homo sapiens GN=TEAD3  
PE=1 SV=2

MASNSWNASSSPGEAREDGPEGLDKGLDND AEGVWSPDIEQSFQEALAIYPPCGRRKIIL  
SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHQVLARKKVREYQVG IKAMNLDQVSKD  
KALQSMASMSAQIVSASVLQNKFSPPSPLPQAVFSTSSRFWSSPPLLGQQGPSQDIKP  
FAQPAYPIQPPLPPTLSSYEPLAPLPSAAASVPVWQDRTIASSRLRLLEYS AFMEVQRDP  
DTYSKHLFVHIGQTNPAFSDPPLEAVDVRQIYDKFPEKKGGLKELYEKGPPNAFFLVKFW  
ADLNSTIQEGPGAFYGVSSQYSSADSMTISVSTKVC SFGKQVVEKVETEARLENGRFVY  
RIHRSPMCEYMINFIHKLKHLPEKYMNSVLENFTILQVVTSRDSQETLLVIAFVFEVST  
SEHGAQH HHVYKLVKD

>sp|Q10587|TEF\_HUMAN Thyrotroph embryonic factor OS=Homo sapiens GN=TEF PE=1 SV=3

MSDAGGGKKPPVDPQAGPGPGGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEK  
LEEDEAAAASTMAVSASLMPPIDWKTIPYDGESFHLEYMDLDEFLENGIPASPTH LAHN  
LLL PVAELEGKESASSTASPPSSSTAIFQPSETVSSTESSLEKERETPSPIDPNCVEVD  
VNFNPD PADLV LSSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKVFPDEQKDEKYWTRR  
KKNNVAAKRSRDARRLKENQITIRAAFLKENTALRTEVAELRKEVGKCKTIVSKYETKY  
GPL

>sp|O15273|TELT\_HUMAN Telethonin OS=Homo sapiens GN=TCAP PE=1 SV=1

MATSELSCEVSEENCERREAFWAEWKDLTLSTRPEEGCSLHEEDTQRHETYHQGQCQVL  
VQRSPWLMRMGILGRGLQEYQLPYQRVLPPIFTP AKMGATKEEREDTPIQLQELLALE  
TALGGQCVD RQEVAEITKQLPPVVPVSKPGALRRSLSRMSQEAQRG

>sp|Q99973|TEP1\_HUMAN Telomerase protein component 1 OS=Homo sapiens GN=TEP1 PE=1 SV=2

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MEKPHGYVSAHPDILSLENQCLATLSDLKTEKPHGHVSAHPDILSLENRCLATLSSLKS  
TVSASPLFQSLQISHMTQADLYRVNNSNCLLSEPPSWRAQHFSKGLDLSTCPIALKSISA  
TETAQEATLGRWFDSEEKGAETQMPSYSLSGEEEEVEDLAVKLTSGDSESHPEPTDHV  
LQEKKMALLSLLCSTLVSEVNMMNTSDPTLAAIFEICRELALLEPEFILKASLYARQQLN  
VRNVANNILAI AAFLPACRPHLRRYFCAIVQLPSDWIQVAELYQSLAEGDKNKL VPLPAC  
LRTAMTDKFAQFDEYQLAKYNPRKHKRAKRRPRRPPRSPGMEPPFSHRCFPRYIGFLREEQ

RKFEKAGDTVSEKKNPPRFTLKKLVQRLHIHKPAQHVQALLGYRYPSNLQLFSRSRLPGP  
WDSSRAGKRMKLSRPETWERELSLRGNKASVWEELIENGKLPFMAMLRNLCNLLRVGISS  
RHHELILQRLQHAQSVIHSRQFPFRFLNAHDAIDALEAQLRNQALPFPSNITLMRRILTR  
NEKNRPRRRFLCHLSRQQLRMAMRIPVLYEQLKREKLRVHKARQWKYDGEMLNRYRQALE  
TAVNLSVKHSLPLLPGRTVLVYLTANADRLCPKSNPQGPPPLNYALLIGMMITRAEQVD  
VVLGGDTLKTAVLKAEEGILKTAIKLQAQVQEFDENDGWSLNTFGKYLLSLAGQRPVVD  
RVILLGQSMDDGMINVAKQLYWQVNSKCLFVGILLRRVQYLSTDLNPNDVTLSGCTDAI  
LKFI AEHGASHLLEHVGMMDKIFKIPPPGKTGVQSLRPLEEDTPSPLAPVSQQGWRSIR  
LFISSTFRDMHGERDLLRSVLPALQARAAPHRI SLHGIDLRWGVTEETRRNRQLEVCL  
GEVENAQLFVGILGSRYGYIPPSYNLPDHPHFHWAQQYPSGRSVTEMEVMQFLNRNQLRQ  
PSAQUALIYFRDSSFLSSVPDAWKSDVFSESEEAARRISELKSYSRQKGITCRRYPCEWG  
GVAAGRPYVGGLEEFQGLVLQDVWNMIQKLYLQPGALLEQPVSI PDDDLVQATFQQLQKP  
PSPARPRLLQDTVQRLMLPHGRSLVLTGQSGQKTAFLASLSALQAPDGAKVASLVFFH  
FSGARPDQGLALTLLRRLCTYLRGQLKEPGALPSTYRSLVWELQQRLLPKSAESLHPGQT  
QVLI IDGADRLVDQNGQLISDWIPKKLPRCVHLVLSVSSDAGLGETLEQSQGAHVLA LGP  
LEASARARLVREELALYGRLEESPFNNQMRLLLVKRESGRPLYLRVTDHLRLFTLYEQ  
VSERLRTL PATVPLLQHILSTLEKEHGPDLVPQALTALEVTRSGLTVDQLHGVL SVWRT  
LPKGTKSWEEAVAAGNSGDPYMPGPFACLVQSLRSLLGEGPLERPGARLCLPDGPLRTAA  
KRCYGRKPGLEDTAHILIAAQLWKTCDADASGTFRSCPPEALGDLPHYLLQSGNRGLLSK  
FLTNLHVVAHLELGLVSRLLEAHALYASSVPKEEQKLPEADVAVFRTFLRQQASILSQY  
PRLLPQQAANQPLDSPLCHQASLLSRRWHLQHTLRWLNKPRTMKNQSSSLAVSSSPT  
AVAFSTNGQRAAVGTANGTVYLLDLRTWQEEKSVVSGCDGISACLFLSDDTLFLTAFDGL  
LELWDLQHGCRLVQTKAHQYQITGCCLSPD CRLLATVCLGGCLKLWDTV RGQLAFQH TYP  
KSLNCVAFHPEGQVIATGSWAGSISFFQVDGLKVTKDLGAPGASIRTLAFNVPGGVVAVG  
RLDSMVELWAWREGARLA AFPAHHGFVAAALFLHAGCQLLTAGEDGKVQVWSGSLGRPRG  
HLGSLSLSPALSVALSPDGRVAVGYRADGIRIYKISSGSQGAQQALDVAVSALAWLSP  
KVLVSGAEDGSLQG WALKECSLQSLWLLSRFQKPV LGLATSQELLASASEDFTVQLWPRQ  
LLTRPHKAEDFPCGTELRGHEGPVSCCSFSTDGGS LATGGRDRSLLCWDV RPTKTPVLIH  
SFPACHRDVWTGCAWTKDNLLISCS SDGSGVLWDPESGQRLGQFLGHQSAVS AVAAVEEH  
VVSVRDGT LKVWDHQGVELTSIPAHSGPI SHCAAAMEPRAAGQPGSELLVVTVGLDGAT  
RLWHPLLVCQHTTLLGHSGPVRAAAVSETSGMLMTASEDGSVRLWQVPKEADDT CIPRSS  
AAVTAVAWAPDGSMAVSGNQAGELILWQEA KAVATAQAPGHIGALIWSSAHTFFVLSADE  
KISEWQVKLRKGSAPGNLSHLNRILQEDLGVLTSLDWAPDGHFLILAKADLKL LCMKPG  
DAPSEIWSSYTENPMILSTHKEYGIFVLQPKDPGVL SFLRQKESGEFEERLNFDINLENP  
SRTLISITQAKPESESSFLCASSDGILWNLAKCSPEGEWTTGNMWQKKANTPETQTPGTD  
PSTCRES DASMDSDASMDSEPTPHL KTRQRRKI HSGSVTALHVLPELLVTASKDRDVKLW  
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>sp|Q12800|TFCP2\_HUMAN Alpha-globin transcription factor CP2 OS=Homo sapiens GN=TFCP2  
PE=1 SV=2

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RVVFHRRRLQYTEHQQLEGWRWNRPGDRILDIDIPMSVGIIDPRANPTQLNTVEFLWDPA  
KRTSVFIQVHCISTEFTMRKHGGEKGVPPFRVQIDTFKENENGEYTEHLHSASCQIKVFKP  
KGADRKQKTDREKMEKRTPEHEKEYQPSYETTILTECSPWPEITYVNNSPSPGFNSSHSS

FSLGEGNGSPNHQPEPPPPVTDNLLPTTTPQEAQQWLRNRFSTFTRLFTNFSGADLLKL  
TRDDVIQICGPADGIRLFNALKGRMVRPRLTIYVCQESLQLREQQQQQQQQQKHEDGDS  
NGTFFVYHAIYLEELTAVELTEKIAQLFSISPCQISQIYKQGPTGIHVLISDEMIQNFQE  
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>sp|Q14188|TFDP2\_HUMAN Transcription factor Dp-2 OS=Homo sapiens GN=TFDP2 PE=1 SV=2

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RSKKGDKNGKGLRHF SMKVCEKVQRKGTTSYNEVADELVSEFTNSNNHLAADSAYDQKNI  
RRRVYDALNVLAMNII SKEKKEIKWIGLPTNSAQECQNLEIEKRRRIERIKQKRAQLQE  
LLLQQIAFKNLVQRNRQNEQQNQGPALNSTIQLPFIIINTSRKTVIDCSISSDKFEYLF  
NFDNTFEIHDDIEVLKRMGMSFGL ESGKCSLEDLKLAKSLVPKALEGYITDISTGPSWLN  
QGLLLNSTQSVSNLDTTGATLPQSSVNQGLCLDAEVALATGQFLAPNSHQSSSAASHCS  
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>sp|Q03403|TFF2\_HUMAN Trefoil factor 2 OS=Homo sapiens GN=TFF2 PE=1 SV=2

MGRRDAQLLAALLVLGLCALAGSEKPSPCQSRLSPHNRTNCGFPGITSDQCFDNGCCFD  
SSVTGVPWCFHPLPKQESDQCVMEVSDRRNCGYPGISPEECASRKCCFSNFIFVWPWCF  
PKSVEDCHY

>sp|Q92734|TFG\_HUMAN Protein TFG OS=Homo sapiens GN=TFG PE=1 SV=2

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EDGDLITIFDSSDLSFAIQCSRLKLT L FVNGQPRPLESSQVKYLRRELIERNKVNRL  
DSLEPPGEPGPSTNIPENDTVDGREEKSASDSSGKQSTQVMAASMSAFDPLKNQDEINKN  
VMSAFGLTDDQVSGPPSAPAEDRSGTPDSIASSSSAHPPGVQPQQPPYTGAQTQAGQIE  
GQMYQQYQQQAGYGAQQPQAPPQPPQYGIQYSASYSQQTGPPQPPQFQGYGQQPTSQAP  
APAFSGQPQQLPAQPPQYQASNYPAQTYTAQTSQPTNYTVAPASQPGMAPSQPGAYQPR  
PGFTSLPGSTMTPPPSGPNPYARNRPPFGQGYTQPGPGYR

>sp|P37173|TGFR2\_HUMAN TGF-beta receptor type-2 OS=Homo sapiens GN=TGFR2 PE=1 SV=2

MGRGLLRGLWPLHIVLWTRIASTIPPHVQKSVNNDMIVTDNNGAVKFPQLCKFCDFRST  
CDNQKSCMSNCSITSICEKPQEVCAVWRKNDENITLETVCHDPKLPYHDFILEDAAAPK  
CIMKEKKKPGETFFMCS CSSDECDNIIIFSEYNTSNPDLLLVI FQVTGISLLPPLGVAI  
SVIIIFYCYRVNRQQLSSTWETGKTRKLMEFSEHCAIILED RSDISSTCANNINHNTE  
LLPIELDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFPYEYASWKTEKDIFSDINLK  
HENILQFLTAEERKTEL GKQYWLITAFHAKGNLQEYLTRHVISWEDLRKLGSSSLARGIAH  
LHSDHTPCGRPKMPIVHRDLKSSNILVKNDLTCCLCDFGLSLRLDPTLSVDDLANSQQVG  
TARYMAPEVLESRMNLENVESFKQTDVYSMALVLWEMTSRCNAVGEVKDYEPFGSKVRE  
HPCVESMKDNVLRDRGRPEIPSFWLNHQGIQMV CETLTECWDHDPEARLTAQCVAERFSE  
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>sp|O43493|TGON2\_HUMAN Trans-Golgi network integral membrane protein 2 OS=Homo sapiens  
GN=TGOLN2 PE=1 SV=2

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QTPKDSPSKSSAEAQTPEDTPNKSGAEAKTQKDSSNKSGAEAKTQKGSTSKSGSEAAQTTK  
DSTKSHPELQTPKDSTGKSGAEAQTPEDSPNRSGAEAKTQKDSPSKSGSEAAQTTKDVPN  
KSGADGGTPKDGSSKSGAEDQTPKDVPNKSGAEKQTPKDGSNKSGAEEQGPIDGPSKSGA  
EEQTSKDSPNKVVPEQPSRKDHSPKISNPSDNKELPKADTNQLADKGKLSPHAFKTESGE  
ETDLISPPQEEVKSEPTEDVEPKAEEDDDTGPEEGSPPKEEKEKMSGASSENREGTSL

DSTGSEKDDLYPNGSGNGSAESSHFFAYLVTAAILVAVLYIAHHNKRKIIAFVLEGKRSK  
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>sp|Q9BXR0|TGT\_HUMAN Queuine tRNA-ribosyltransferase catalytic subunit 1 OS=Homo sapiens  
GN=QTRT1 PE=1 SV=3

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TEEGVFRSPYDGNETLLSPEKSVQIQNALGSDIIMQLDDVVSSTVTGPRVEEAMYSIR  
WLDRCIAAHQRPDKQNLFAIIQGGLDADLRATCLEEMTKRDVPGFAIGGLSGGESKSQFW  
RMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVFPTRTARFGSALVPTGNLQ  
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>sp|Q8WY91|THAP4\_HUMAN THAP domain-containing protein 4 OS=Homo sapiens GN=THAP4 PE=1  
SV=2

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TKDSFSKRLEDQHRLKPTAVPSIFHLTEKKRGAGGHGRTRRKDASKATGGVRGHSSAAT  
SRGAAGWSPSSSGNPMAPESRRLKQAALQGEATPRAAQEAASQEQAAQALERTPGDGLA  
TMVAGSQGKAEASATDAGDESATSSIEGGVTDKSGISMDDFTPPGSGACKFIGSLHSYSF  
SSKHTRERPSVPREPIDRKRLKDVPEPSCSGSSLGPDKGLAQSPSSSLTATPQKPSQSP  
SAPPADVTPKPATEAVQSEHSDASPMSENEVILSASGACKLIDSLHSYCFSSRQNKSQVC  
CLREQVEKKNKELKSLRQVRSDSQVRKLEKLELRRVSVYPSSLLSPSREPPKMNP  
VVEPLSWMLGTWLSPPGAGTYPTLQPFQYLEEVHISHVGQPMNFSFNSFHPDTRKPMH  
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RKFRNLSEGLEQTVSMATTTQPMTQHLHVYTKVTP

>sp|P42765|THIM\_HUMAN 3-ketoacyl-CoA thiolase, mitochondrial OS=Homo sapiens GN=ACAA2  
PE=1 SV=2

MALLRGVVFVAAKRTPFPGAYGGLLKDFATDLSEFAAKAALSAGKVSPETVDSVIMGNVL  
QSSSDAIYLARHVGLRVGIPKETPALTINRLCGSGFQSI VNGCQEICVKEAEVVLGGTE  
SMSQAPYCVNRNVRFGTKLGSIDKLEDSLWVSLTDQHVQLPMAMTAENLAVKHKISRECD  
KYALQSQRWKAANDAGYFNDEMAPIEVKTKKGKQTMQVDEHARPQTTLQQLKLPVFK  
KDGTVTAGNASGVADGAGAVIIASEDAVKKHNFPTLARIVGYFVSGCDPSIMGIGVPAI  
SGALKKAGLSLKMDLVEVNEAFAPQYLAVERSLDDLISKTNVNGAIALGHPLGGSGSR  
ITAHLVHELRRRGKYAVGSACIGGGQGIIVIIQSTA

>sp|Q9NV29|TM100\_HUMAN Transmembrane protein 100 OS=Homo sapiens GN=TMEM100 PE=1 SV=2  
MTEEPIKEILGAPKAHMAATMEKSPKSEVITTVPLVSEIQLMAATGGTELSCYRCIIPF  
AVVVFIAGIVTAVAYSFNSHGSIIISIFGLVVLSSGLFLLASSALCWKVRQRSKKAKRRE  
SQTALVANQRSLFA

>sp|Q6UXF1|TM108\_HUMAN Transmembrane protein 108 OS=Homo sapiens GN=TMEM108 PE=2 SV=2  
MKRSLQALYCQLLSFLLILALTEALAFAIQEPSPRESLQVLPSGTPPGTMVTAPHSSSTRH  
TSVVMLTPNPDGPPSQAAAPMATPTPRAEGHPPTHTISTIAATVTAPHSESSLSTGPAPA  
AMATTSKPEGRPRGQAAPTILLTKPPGATSRPTTAPPRTTTRRPPRPPGSSRKGAGNSS  
RPVPPAPGGHSRSKEGQGRNPSSTPLGQKRPLGKIFQIYKGNFTGSVEPEPSTLTPRTP  
LWGYS SSPQQTVAATTVPNSWAPTSTSLGPAKDKPGLRRAAQGGSTFTSQGGTPDA  
TAASGAPVSPQAAPVPSQRPHHGDPQDGPSHSDSWLTVTPGTSRPLSTSSGVFTAATGPT  
PAAFDTSVSAPSQGIPQGASTTPQAPTHPSRVSESTISGAKEETVATLTMTRVPSPLST

VVSTATGNFLNRLVPAGTWKPGTAGNISHVAEGDKPQHRATICLSKMDIAWVILAI SVPI  
SSCSVLLTVCCMKRKKKTANPENNL SYWNNITMDYFNRHAVELPREIQSLETSEDQLSE  
PRSPANGDYRDTGMVLVNPFCQETL FVGNDQVSEI

>sp|B3SHH9|TM114\_HUMAN Transmembrane protein 114 OS=Homo sapiens GN=TMEM114 PE=2 SV=2  
MRVHLGGLAGAAALTGALS FVLLAAAIGTDFWYIIDTERLERTGPGAQDLLGSINRSQPE  
PLSSHSGLWRTCRVQSPCTPLMNPFRLENTVSESSRQLLTMHGTFVILLPLSLILMVFG  
GMTGFLSFLQAYLLLLLTGILFLFGAMVTLAGISVYIAYSAAAFREALCLLEEKALLDQ  
VDISFGWSLALGWISFIAELLTGA AFLAAARELSLRRRQDQAI

>sp|Q12893|TM115\_HUMAN Transmembrane protein 115 OS=Homo sapiens GN=TMEM115 PE=1 SV=1  
MQRALPGARQHLGAILASASVVVKALCAAVLFLYLLSFAVDTGCLAVTPGYLFPPNFWIW  
TLATHGLMEQHVDVAISLTTVVVAGRLLLEPLWGALELLIFFSVVNVSVGLLGAFAYLLT  
YMASFNLVYLFTVRIHGALGFLGGVLVALKQTMGDCVVL RVPQVRVSVMPMLLLALLLLL  
RLATLLQSPALASYGFGLSSWVYLRFYQRHSRGRGDMADHFAFATFFPEILQPVVGLLA  
NLVHSLLVKVKICQKTVKRYDV GAPSSITISLPGTDPQDAERRRQLALKALNERLKRVED  
QSIWPSMDDDEEESGAKVDSPLPSDKAPTPPGKGAAPESSLITFEAAPPTL

>sp|Q9UL52|TM11E\_HUMAN Transmembrane protease serine 11E OS=Homo sapiens GN=TMPRSS11E  
PE=1 SV=2

MMYRPDVVRARKRVCWEPWVIGLVIFISLIVLAVCIGLTVHYVRYNQKKTYNYYSTLSFT  
TDKLYAEFGREASNNFTEMSQRLESMVKNAFYKSPLREEFVKSQVIKFSQQKHGVLAHML  
LICRFHSTEDPETVDKIVQLVLHEKLQDAVGPPKVDPHSVKIKKINKTETDSYLNHCCGT  
RRSKTLGQSLRIVGGTEVEEGEPWQASLQWDGSHRCGATLINATWLVSAAHCFTTYKNP  
ARWTASFGVTIKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRVCLPD  
ASYEFQPGDVMFVTGFGALKNDGYSQNH LRQAQVTLIDATTCNEPQAYNDAITPRMLCAG  
SLEGKTDACQGDSGGPLVSSDARDIWYLAGIVSWGDECAKPNKPGVYTRVTALRDWITSK  
TGI

>sp|O75204|TM127\_HUMAN Transmembrane protein 127 OS=Homo sapiens GN=TMEM127 PE=1 SV=1  
MYAPGGAGLPGRRRRSPGGSALPKQPERSLASALPGALSITALCTALAEPAWLHIHGGT  
CSRQELGVSDVLGYVHPDLLDFCMNPQTVLLLRVIAAFCFLGILCSLSAFLLDVFGPKH  
PALKITRRYAFAHILTVLQCATVIGFSYWASELILAQQQHHKKYHGSQVYVTFVAVSFYLV  
AGAGGASILATAANLLRHYPTEEEEQALELLSEMEENEPYPAEYEVINQFQPPPAYTP

>sp|Q8IV31|TM139\_HUMAN Transmembrane protein 139 OS=Homo sapiens GN=TMEM139 PE=1 SV=1  
MVPMHLLGRLEKPLLLCCASFLGLALLGIKTDITPVAYFFLTGGFFLFAYLLVRFLE  
WGLRSQLQSMQTESPGPSGNARDNEAFEVPVYEEAVVGLESQCRPQELDQPPPYSTVVIP  
PAPEEEQPSHPEGSRRAKLEQRRMASEGSMAQEGSPGRAPINLRLRGPRAVSTAPDLQSL  
AAVPTLEPLTPPPAYDVCFGHPDDDSVFYEDNWAPP

>sp|Q9Y6G1|TM14A\_HUMAN Transmembrane protein 14A OS=Homo sapiens GN=TMEM14A PE=1 SV=1  
MDLIGFGYAALVTFGSIFGYKRRGGVPSLIAGL FVGCLAGYGAYRVSNDRDVKVSLFTA  
FFLATIMGVRFKRSKKIMPAGLVAGLSLMMILRLVLLLL

>sp|Q8WZ71|TM158\_HUMAN Transmembrane protein 158 OS=Homo sapiens GN=TMEM158 PE=2 SV=2  
MLPLLAALLAAACPLPPVRGGAADAPGLLGVP SNASVNASSADEPIAPRLLASAAPGPPE  
RPGPEEEEEAAAPCNISVQRQMLSSLLVRWGRPRGFQCDLLLFSTNAHGRAFFAAAFHRV  
GPLLIEHLGLAAGGAQQDLRLCVGCGWVRGRRTGRLRPAAPSAATAAGAPTALPAYP  
AAEPGPPLWLQGEPLHFCCLD FSLEELQGEPGWRLNRKPIESTLVACFMTLVIVVWSVAA  
LIWPVPIIAGFLPNGMEQRRTTASTTAATPAAVPAGTAAAAAAAAAAAAAAVTSGVATK

>sp|Q96HH4|TM169\_HUMAN Transmembrane protein 169 OS=Homo sapiens GN=TMEM169 PE=2 SV=1  
MEEPTAVEGQVQLPSPHQGLRKAVAAALALDGESTMGHRKKKRKESRPESII IYRSDNE  
KTDEEPGESEGGDQPKKEEGDDFLDYPVDDDMWNLPLDSRYVTLTGTITRGKKKGQMVDI  
HVTLTEKELQELTKPKESSRETTPEGRMACQMGADRGPHVVLWTLICLPVVFILSFVVSF  
YYGTITWYNIFLVYNEERTFWHKISYCPCLVLFYPVLIMAMASSLGLYAAVVQLSWSWEA  
WWQAARDMEKGFCGWLCSKLGLEDSPYSIVELLESDNISSTLSNKPDIQEVEETSTV

>sp|Q14656|TM187\_HUMAN Transmembrane protein 187 OS=Homo sapiens GN=TMEM187 PE=2 SV=1  
MNPEWGAQFVHVAVAGGLCAVAVFTGIFDSVSVQVGYEHYAEAPVAGLPAFLAMPFNSLV  
NMAYTLLGLSWLHRGGAMGLGPRYLKDVFAAMALLYGPVQWLRLWTQWRAAVLDQWTL  
PIFAWPVAVCLYLDRGWRPWLFLSLECVSLASYGLALLHPQGFEVALGAHVVAAGQALR  
THRHYGSTTSATYLALGVLSCLGFVVLKCDHQLARWRLFQCLTGHFWSKVCVLFQHFHA  
FLFLTHFNTHPRFHPSSGGKTR

>sp|A5PLL7|TM189\_HUMAN Transmembrane protein 189 OS=Homo sapiens GN=TMEM189 PE=1 SV=3  
MAGAENWPGQQLLEDEDEASCCRWGAQHAGARELAALYSPGKRLQEWCSVILCFSLIAHN  
LVHLLLARWEDTPLVILGVVAGALIADFLSGLVHWGADTWGSVELPIVGAFIRPFREH  
HIDPTAITRHDFIETNGDNCLVTLLPLLN MAYKFRTHSPEALEQLYPWECFVFCLIIFGT  
FTNQIHKWSHTYFGLPRVWTLQDWHVILPRKHRIHHVSPHETYFCITTGWLNYPLEKI  
GFWRRLEDLIQGLTGEKPRADDMKWAQKIK

>sp|Q5HYL7|TM196\_HUMAN Transmembrane protein 196 OS=Homo sapiens GN=TMEM196 PE=2 SV=2  
MCTSGQIIGSLLVLSVLEIGLVSSVAVGAVSFSALREHKPQLGDSSPVWSGVCFLLCG  
ICGILCAKKKSGVMILFSACCICGLIGILNFQFLRAVTKKTSSLYPLHLASMSLACIG  
IGGCTLSSWLTCLASYEQRMMFSEREHSLHSHMAEKEITDNMSNGGPQLIFNGRV

>sp|O75674|TM1L1\_HUMAN TOM1-like protein 1 OS=Homo sapiens GN=TM1L1 PE=1 SV=2  
MAFGKSHRDPYATSVGHLEKATFAGVQTEDWGQFMHICDIINTTQDGPKDAVKALKKRI  
SKNYNHKEIQTLTSLIDMCVQNCGPSFQSLIVKKEFVKENLVKLLNPRYNLPLDIQNRIL  
NFIKTSQGFPGVDVSEVKEVYLDLVKKGVQFPPSEAEAEARQETAQISSNPPTSVP  
APALSSVIAPKNSTVTLVPEQIGKLHSELDVMKMNVRVMSAILMENTPGSENHEDIELLQ  
KLYKTGREMQUERIMDLLVVVENEDVTVELIQVNEDLNAILGYERFTRNQQRILEQNKQ  
KEATNTTSEPSAPSQDLLDLSPSRMPRATLGELNTMNNQLSGLNFSLPSSDVTNNLKPS  
LHPQMNLLALENTEIPFPAQRTSQNLTSSHAYDNFLEHSNSVFLQPVSLQTIAAAPSQNS  
LPPLPSNHPAMTKSDLQPPNYEYVMEFDPLAPAVTTEAIYEEIDAQHKGAQNDGD

>sp|Q5SNT2|TM201\_HUMAN Transmembrane protein 201 OS=Homo sapiens GN=TMEM201 PE=1 SV=1  
MEGVSALLARCPTAGLAGGLGTACAAAGVLLYRIARRMKPTHTMVNCWFCNQDTLVPYG  
NRNCWDCPHCEQYNGFQENGDNKPIPAQYLEHLNHVSSAPSLRDPSPQVQWSSQVLL  
CKRCNHHQTTKIKQLAAFAPREEGRYDEEVEVYRHLEQMYKLCRPCQAAVEYYIKHQNR  
QLRALLLSHQFKRREADQTHAQNFSSAVKSPVQVILLRALAFLACAFLLTTALYGASGHF  
APGTTVPLALPPGGNGSATPDNGTTPGAEGWRQLLGLLPEHMAEKLCEAWAFGQSHQTGV  
VALGLLTCLLAMLAGRIRLRIDAFCTCLWALLGLHLAEQHLQAASPSWDLTKFSTT  
SLCCLVGFTAATAVRKATGPRRFRPRRFFPGDSAGLFPTSPSLAIPHPVGGSPASLFIP  
SPPSFLPLANQQLFRSPRRTSPSSLPGRLSRALSLGTIPSLTRADSGYLFSGSRPPSQVS  
RSGEFPVSDYFSLSGSCPSSPLSPAPSVAGSVASSSGSLRHRRLISPARNLKGQKL  
LLFPSPPEAPTTPSSSDEHSPHNGSLFTMEPPHVPRKPPLQDVKHALDLRSKLERSAC  
SNRSIKKEDDSSQSTCVVDTTTRGCSEEAATWRGRFGPSLVRGLLAVSLAANALFTSVF  
LYQSLR

>sp|Q6UWW9|TM207\_HUMAN Transmembrane protein 207 OS=Homo sapiens GN=TMEM207 PE=1 SV=1  
MSRSRLFSVTSAISTIGILCLPLFQLVLSDLPCCEEDMCVNYNDQHPNGWYIWILLLLVL  
VAALLCGAVVLCQLCWLRRPRIDSHRRMTAVFAVGDLDSIYGTEAAVSPTVGIHLQTQTP  
DLYPVPAPCFGLGSPPPYEEIVKTT

>sp|Q96Q45|TM237\_HUMAN Transmembrane protein 237 OS=Homo sapiens GN=TMEM237 PE=1 SV=2  
MRTDSGARLEEGHLRPPRALPPVPSQDDIPLSRPKKKKPRTKNTPASASLEGLAQTAGRR  
PSEGNPESTKELKEHPEAPVQRRQKKTRLPLELETSSTQKKSSSSLLRNENGIDAEPAE  
EAVIQKPRRKTKKTQPAELQYANELGVEDEDIITDEQTTVEQQSVFTAPTGISQPVGKVF  
VEKSRRFQAADRSELKTTENIDVSM DVKPSWTTTRDVALTVHRAFRMIGLFSHGFLAGCA  
VWNIVVIYVLAGDQLSNLSNLLQQYKTLAYPFQSLLYLLLALSTISAFDRIDFAKISVAI  
RNFLALDPTALASFLYFTALILSLSQQMTSDRIHLYTPSSVNGSLWEAGIEEQILQPWIV  
VNLVALLVLGSLWFLSYRPGMDLSEELMFSSVEVEYDPKEKEIKASS

>sp|Q9BX74|TM2D1\_HUMAN TM2 domain-containing protein 1 OS=Homo sapiens GN=TM2D1 PE=1 SV=1  
MAAAWPSGPSAPEAVTARLVGVLFVSVTTGPWGAVATSAGGEESLKCEDLKVGQYICKD  
PKINDATQEPVNCTNYTAHVSCFPAPNITCKDSSGNETHFTGNEVGFFKPISCRNVNGYS  
YKVAVALSLFLGWLGADRFYLGYPALGLLKFCFCTVGFSGIGSLIDFILISMQIVGPSDGSS  
YIIDYYGTRLRLSITNETFRKTLQLYP

>sp|Q9BX73|TM2D2\_HUMAN TM2 domain-containing protein 2 OS=Homo sapiens GN=TM2D2 PE=2 SV=1  
MVLGGCPVSYLLCGQAALLGNLLHCVSRSHSQNATAEPELTSAGAAQPEGPGAAS  
WEYGDPHSPVILCSYLPDEFIECEDPVDHVG NATASQELGYGCLKFGGQAYS DVEHTSVQ  
CHALDGI ECASPRFTLRENKPCIKYTGHYFITLLYSFFLGCFGVDRFCLGHTGTAVGKL  
LTLGGLGIWWFVDLILLITGGLMPSDG SNWCTVY

>sp|Q9BRN9|TM2D3\_HUMAN TM2 domain-containing protein 3 OS=Homo sapiens GN=TM2D3 PE=2 SV=2  
MAGGVLPLRGLRALCRVLLFSLQFCILSGGEQS QALAQSIKDPGPTRTFTVVPRAAESTE  
IPPYVMKPCPSNGLCSRLPADCIDCTTNFSC TYGKPVTFDCAVKPSVTCVDQDFKSQKNFI  
INMTCRFCWQLPETDYECTNSTSCMTVSCPRQRY PANCTVRDHHVHCLGNRTFPKMLYCNW  
TGGYKWSTALALSITLGGFGADRFYLGQWREGLGKLFSFGGLGIWTLIDVLLIGVGYVGP  
ADGSLYI

>sp|Q53FP2|TM35A\_HUMAN Transmembrane protein 35A OS=Homo sapiens GN=TMEM35A PE=2 SV=2  
MASPRTVTIVAL SVALGLFFVFMGTIKLTPRLSKDAYSEM KRAYKSYVRALPLLKKMGIN  
SILLRKSIGALEVACGIVMTLVPGRPKDVANFF LLLLVLAVLFFHQLVGDPLKRYAHALV  
FGILLTCRLLIARKPEDRSSEKKPLPGNAEEQPSLYEKAPQGKVKVS

>sp|Q9H6F2|TM38A\_HUMAN Trimeric intracellular cation channel type A OS=Homo sapiens  
GN=TMEM38A PE=1 SV=1

MELLSALSLGELALSFSRVLPFPVFDLSYFIVSILYLKYE PGAVELSRRHPIASWLCAML  
HCFGSYILADLLLGEPLIDYFSNNSSILLASAVWYLIFCPLDLFYKVCFLPVKLIFVA  
MKEVVRVRKIAVGIIHAAHHHHYHGWFM IATGWVKGSGVALMSNFEQLLRGVWKPETNEI  
LHMSFPTKASLYGAILFTLQQTRWLPVSKASLIFITL FMVCKVFLTATHSHSSPFDAL  
EGYICPVLFGSACGGDHHHDNHGGS HSGGPGAQHSAMPAKSKEELSEGSRKKKAKKAD

>sp|Q9NV64|TM39A\_HUMAN Transmembrane protein 39A OS=Homo sapiens GN=TMEM39A PE=2 SV=1  
MPGGRRGPSRQQLSRSALPSLQTLVGGCGNGTGLRNRNGSAIGLPVPPITALITPGPVR  
HCQIPDL PVDGSLLEFFLFFIYLLVALFIQYIN IYKTVWWYPYNHPASCTSLNFHLIDYH  
LAAFITVMLARRLVWALISEATKAGAASMIHYMVLISARLVLLTCGWVLCWTLVNLFRS  
HSVLNLLFLGYPFGVYVPLCCFHQDSRAHLLLT DYNVYVQHEAVEESASTVGLAKSKDF

LSLLESLSKEQFNNATPIPTHSCPLSPDLIRNEVECLKADFNHRIKEVLFNLSLFSAYYVA  
FLPLCFVKSTQYYDMRWSCHELMVWINAFVMLTTQLLPSKYCDLLHKSA AHLGKWQKLE  
HGSYSNAPQHIWSEN TIWPGQVLVRHSRCLYRAMGPYNVAVPSDVSHARFYFLFHRPLRL  
LNLILIEGSVVFYQLYSLLRSEKWNHTLSMALILFCNYYVLFKLLRDRIVLGRAYSYP  
LSYELKAN

>sp|Q5BJD5|TM41B\_HUMAN Transmembrane protein 41B OS=Homo sapiens GN=TMEM41B PE=1 SV=1  
MAKGRVAERSQLGAHHTTPVGDAAGTRGLAAPGSRDHQKEKSWVEAGSARMSLLILVSI  
FLSAAFVMFLVYKNFPQLSEEERNMKVPRMDDAKALGKVL SKYKDTFYVQVLVAYFAT  
YIFLQTF AIPGSIFLSILSGFLYFPFLALFLVCLCSGLGASFCYMLS YLVGRPVVYKYL  
EKAVKWSQQVERHREHLINYII FLRITPFLPNWFINITSPVINVPLKVFFIGTFLGVAPP  
SFVAIKAGTTLYQLTTAGEAVSWNSIFILMILAVLSILPAIFQKKLKQKFE

>sp|P56557|TM50B\_HUMAN Transmembrane protein 50B OS=Homo sapiens GN=TMEM50B PE=1 SV=2  
MAGFLDNFRWPECECIDWSERRNAVASVAGILFFTGWIMIDAAVVYPKPEQLNHAFHT  
CGVFSTLAFFMINAVSNAQVRGDSYESGCLGRTGARVWLFIFGMLMFGSLIASMWILFGA  
YVTQNTDVYPGLAVFFQNALIFFSTLIYKFG RTEELWT

>sp|Q9NUR3|TM74B\_HUMAN Transmembrane protein 74B OS=Homo sapiens GN=TMEM74B PE=2 SV=1  
MPPAQGYEF AAAGPRDELGPSFPMASPPGLELKTLSNGPQAPRRSAPLGPVAPTREGVE  
NACFSSEEHETHFQNPGNTRLGSSPSPGGVSSLPRSQRDDLSLHSEEGPALEPVSRPVD  
YGFVSALVFLVSGILLVVTAYAI PREARVNPDTVTAREMERLEMYARLGSHLDRCIIAG  
LGLLTVGGMLLSVLLMVSLCKGELYRRRTFVPGKGSRKTYGSINLRMRQLNGDGGQALVE  
NEVVQVSETSHTLQRS

>sp|Q8N2M4|TM86A\_HUMAN Lysoplasmalogenase-like protein TMEM86A OS=Homo sapiens GN=TMEM86A  
PE=2 SV=1

MVSPVTVVKSEGPKLV PFFKATCVYFVLWLPSSSPSWSTLIKCLPIFCLWFLLAHGLG  
FLLAHPSATRIFVGLVFS AVGDAFLIWQDQGYFVHGLLMFAVTHMFYASAFGMQPLALRT  
GLVMAALSGLCYALLYPCLSGAFTYLVGVYVALIGFMGWRAMAGRLAGADWRWTELAAG  
SGALFFIISDLTIALNKFCFPVPYSRALIMSTYYVAQMLVALSAVESREPVEHYRLTKAN

>sp|Q92544|TM9S4\_HUMAN Transmembrane 9 superfamily member 4 OS=Homo sapiens GN=TM9SF4  
PE=1 SV=2

MATAMDWLPWSLLLFSLMCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYS  
LPFCQPSKITYKAENLGEVLRGDRIVNTPFQVLMNSEKKCEVLCSQSNKPVTLTVEQSRL  
VAERITEDYVYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGYRLGFTDVNKIYLH  
NHL SFILYYHREDMEEDQEHTYRVVRFEVIPQSI RLEDLKADEKSSCTLPEGTNSSPQEI  
DPTKENQLYFTYSVHWEESDIK WASRWDTYLTMSDVQIHWFSIINSVVVVFFLSGILSMI  
IIRTLRKDIANYNKEDDIEDTMEESGWKL VHGDVFRPPQYPMILSSLLGSGIQLFCMILI  
VIFVAMLGMLSPSSRGALMTTACFLFMFMGVFGGFSAGRLYRTLKGHRWKKGAFCTATLY  
PGVVF GICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLGYYFGFRKQPYDNP  
VRTNQIPRQIPEQRWYMNRFV GILMAGILPFGAMFIELFFISAIWENQFYFLFGFLFLV  
FIILV VSCSQISIVMYFQLCAEDYRWWRNFLVSGGSAFYVLVY AIFYFVNKL DIVEFI  
PSLLYFGYTALMVLSFWLLTGTIGFYAAYMFVRKIYA AVKID

>sp|Q9BTV4|TMM43\_HUMAN Transmembrane protein 43 OS=Homo sapiens GN=TMEM43 PE=1 SV=1  
MAANYSTSTRREHVVKVTSSQPGFLERLSETSGGMFVGLMAFLLSFYLI FTNEGRALKT  
ATSLAEGLSLVSPDSIHSVAPENEGRLVHIIGALRTSKLLSDPNYGVHLP AVKLRRHVE  
MYQWVETEE SREYTEDGQVKKETRYSYNTEWRSEI INSKNFDREIGHKNPSAMAVESFMA



TAPFVQIGRFFLSGLIDKVDNFKSLSLSKLEDPHVDI IRRGDDFFYHSENPKYPEVGDLR  
VSFSYAGLSGDDPDLGPAHVTVIARQRGDQLVPFSTKSGDTLLLLHHGDFSAAEEVFHRE  
LRNSMKTWGLRAAGWMAMFMGLNLMTRILYTLVDWFPVFRDLVNIGLKAFACVATSLT  
LLTVAAGWLFYRPLWALLIAGLALVPILVARTRVPAKKLE

>sp|Q6P2H8|TMM53\_HUMAN Transmembrane protein 53 OS=Homo sapiens GN=TMEM53 PE=2 SV=1  
MASAELDYTIEIPDQPCWSQKNSPSPGGKEAETRQPVVILLGWGGCKDKNLAKYSAIYHK  
RGCIVIRYTAPWHMVFFSESLGIPSLRVLAQKLELLFDYEIEKEPLL FHVFSNGGVMLY  
RYVLELLQTRRFCLRVVGTIFDSAPGDSNLVGALRALAAILERRAAMLRLLLLVAFALV  
VVL FHVLLAPITALFHTHFYDRLQDAGSRWPELYLYSRADEVVLARDIERMVEARLARRV  
LARSVDFVSSAHVSHLRDYPTYTSLCVD FMRNCVRC

>sp|Q6P5X7|TMM71\_HUMAN Transmembrane protein 71 OS=Homo sapiens GN=TMEM71 PE=2 SV=2  
MYRISQLMSTPVASSRLEREYAGELSPTCIFPSFTCDSLDGYHSFECCSIDPLTGSHYT  
CRRSPRLLTNGYYIWTEDSFLCDKDG NITLNPSTSVMYKENLVRIFRKKKRICHSFSSL  
FNLSTSKSWLHGSIFGDINSSPEDNWLKGT RRLDTHCNGNADDLDCSSLTDDWESGKM  
NAESVITSSSSHIISQPPGGNSHLSLSQLTASERFQENSSDHSETRL LQEVFFQAILL  
AVCLIIISACARWFMGEILASVFTCSLMITVAYVKSLFLSLASYFKTTACARFVKI

>sp|Q9H3N1|TMX1\_HUMAN Thioredoxin-related transmembrane protein 1 OS=Homo sapiens GN=TMX1  
PE=1 SV=1

MAPSGSLAVPLAVLVLLWGAPWTHGRRSNVRVITDENWRELLEGDWMIEFYAPWCPACQ  
NLQPEWESFAEWGEDLEVNI AKVDVTEQPGLSGRFIITALPTIYHCKDGEFRRYQGPRTK  
KDFINFISDKEWKSIEPVSSWFGPGSVLMSSMSALFQLSMWIRTCHNYFIEDLGLPVWGS  
YTVFALATLFSGLLLGLCMIFVADCLCP SKRRRPQYPYPYPSKKL LSESAQPLKKVEEQE  
ADEEDVSEEEAESKEGTNKDFPQNAIRQRSLGPSLATDKS

>sp|Q9H1E5|TMX4\_HUMAN Thioredoxin-related transmembrane protein 4 OS=Homo sapiens GN=TMX4  
PE=1 SV=1

MAGGRCGPQLTALLAAWIAAATAAGPEEAALPPEQSRVQPM TASNWTLVMEGEWMLKFY  
APWCPSCQQTDSEWEAFKNGEILQISVGKVDVIQEPGLSGRFFVTTLPAFFHAKDGIFR  
RYRPGGIFEDLQNYILEKKWQVEPLTGWKSPASLTMSGMAGLFSISGKIWHLHNYFTVT  
LGIPAWCSYVFFVIATLVFGLFMGLVLVVIS ECFYVPLPRHLSERSEQNRRSEEAHRAEQ  
LQDAEEEEKDDSN EENKDSLVDDEEEKEDLGD EDEAE EEEEEEDNLAAGVDEERSEANDQG  
PPGEDGV TREEVEPEEAEEGISEQPCPADTEVVEDSLRQRK SQHADKGL

>sp|Q9Y275|TN13B\_HUMAN Tumor necrosis factor ligand superfamily member 13B OS=Homo sapiens  
GN=TNFSF13B PE=1 SV=1

MDDSTEREQSRLTSLCKKREEMKLKECVSILPRKESPSVRSSKDGLLAATLL LALLSCC  
LTVVSFYQVAALQGD LASLRAELQGHHA EKLPAGAGAPKAGLEEAPAVTAGLKIFEPPAP  
GEGNSSQNSRNKRAVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSALEE  
KENKILVKETGYFFIYGQVLYTDKTYAMGH LIQRKKVHVFGDELSLVT LFRCIQNMPETL  
PNNSCYSAGIAKLEEGDELQ LAIPRENAQISLDGDVTFFGALKLL

>sp|Q43508|TNF12\_HUMAN Tumor necrosis factor ligand superfamily member 12 OS=Homo sapiens  
GN=TNFSF12 PE=1 SV=1

MAARRSQRRRGRRGPGTALLVPLALGLGLALACLG LLLAVVSLGSRASLSAQEP AQEEL  
VAEEDQDPSELNPQTEESQDPAPFLNRLVRPRRSAPKGRKTRARRAIAAHYEVHPRPGQD  
GAQAGVDGTVSGWEEARINSSSPLRYNRQIGEFIVTRAGLYYLYCQVHFDEGKAVY LKLD  
LLVDGVLALRCLEEF SATAASSLGPQLRLCQVSGLLALRP GSSLRIRTL PWAHLKAAPFL

TYFGLFQVH

>sp|Q9UNG2|TNF18\_HUMAN Tumor necrosis factor ligand superfamily member 18 OS=Homo sapiens  
GN=TNFSF18 PE=1 SV=2

MTLHPSPTICEFLFSTALISPKMCLSHLENMPLSHSRTQGAQRSSWKLWLFCSIVMLLFL  
CSFSWLIFIFLQLETAKEPCMAKFGPLPSKWQMASSEPPCVNKVSDWKLEILQNGLYLIY  
GQVAPNANYNDVAPFEVRLYKNKDMIQTLTNKSKIQNVGGTYELHVGDTIDLIFNSEHQV  
LKNNTYWGIILLANPQFIS

>sp|P23510|TNFL4\_HUMAN Tumor necrosis factor ligand superfamily member 4 OS=Homo sapiens  
GN=TNFSF4 PE=1 SV=1

MERVQPLEENVGNAARPRFERNKLLLVASVIQGLGLLCTFYICLHFSALQVSHRYPRIQ  
SIKVQFTEYKKEKGFILTSQKEDEIMKVQNNSVIINCDFYILSLKGYFSQEVNISLHYQ  
KDEEPLFQLKKVRSVNSLMVASLTYKDKVYLVNVTDTNTSLDDFHVNGGELILIHQNPGEF  
CVL

>sp|Q9NS68|TNR19\_HUMAN Tumor necrosis factor receptor superfamily member 19 OS=Homo sapiens  
GN=TNFRSF19 PE=1 SV=1

MALKVLEQEKTFFTLVLGYSCKVTCESGDCRQQEFRDRSGNCVPCNQCGPGMELSK  
ECGFGYGEDAQCVCRLHRFKEDWGFQKCKPCLDCAVVNRFFQKANC SATSDAICGDCLPG  
FYRKTKLVGFGDMECVPCGDPPEYEPHCASKVNLVKIASTASSPRDTALAAVICSALAT  
VLLALLILCVIYCKRQFMEKKPSWSLRSQDIQYNGSELSCFDRPQLHEYAHRACCQCRRD  
SVQTCGPVRLPSMCCEEACSPNPATLGC GVHSAASLQARNAGPAGEMVPTFFGSLTQSI  
CGEFSDAWPLMQNPMGGDNISFCDSYPELTGEDIHSLNPELESSTSLDSNSSQDLVGGAV  
PVQSHSENFTAATDLSRYNNTLVESASTQDALTMRSQLDQESGAVIHPATQTSLQVRQRL  
GSL

>sp|P20333|TNR1B\_HUMAN Tumor necrosis factor receptor superfamily member 1B OS=Homo sapiens  
GN=TNFRSF1B PE=1 SV=3

MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPG  
QHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRITC  
RPGWYCALSKQEGCRLCAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSNTTSSTDICR  
PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS  
FLLPMGPSPPAEGSTGDFALPVGLIVGTALGLLIIGVVNCVIMTQVKKKPLCLQREAKV  
PHLPADKARGTQGPEQQHLLITAPSSSSSSLESSASALDRRAPTRNQPAQGEASGAGE  
ARASTGSSDSSPGGHGTQVNVTCIVNVCSDDHSSQCSSQASSTMGDTDSSPSESPKDEQ  
VPFSKEECAFRSQLETPETLLGSTEEKPLPLGVPDAGMKPS

>sp|P36941|TNR3\_HUMAN Tumor necrosis factor receptor superfamily member 3 OS=Homo sapiens  
GN=LTBR PE=1 SV=1

MLLPWATSAPGLAWGPLVLGLFGLLAASQPQAVPPYASENQTCRDQEKEYYEPQHRICCS  
RCPPGTYYSAKCSRIRDVTCATCAENSYNEHWNLTICQLCRPCDPVMGLEEIAPCTSKR  
KTQCRCQPGMFCAAWALECTHCELLSDCPPGTEAEKDEVGKGNHCVCKAGHFQNTSS  
PSARCQPHTRCENQLVEAAPGTAQSDTTCKNPLEPLPPEMSGTMLMLAVLLPLAFFLLL  
ATVFSCIWKSHPSLCKRLGSLKRRPQGECPNPVAGSWEPPKAHPYFPDLVQPLLPISGD  
VSPVSTGLPAAPVLEAGVPQQQSPLDLTREPQLEPGEQSQVAHGTNGIHVTGGSMITGN  
IYIYNGPVLGGPPGPGDLPATPEPPYPIPEEGDPGPPGLSTPHQEDGKAWHLAETEHCGA  
TPSNRGPRNQFITHD

>sp|Q8NDV7|TNR6A\_HUMAN Trinucleotide repeat-containing gene 6A protein OS=Homo sapiens  
GN=TNR6A PE=1 SV=2

MRELEAKATKDVERNLSDLVQEEELMEEKKKKKDDKKKKEAAQKKATEQKIKVPEQIK  
PSVSQPPANSNNGTSTATSTNNNAKRATANNQQPQQQQQQQQPQQQPQQPQPQQQ  
QQQQQPQALPRYPREVPPFRHQEHKQLLKRQHFPVIAANLGSVAVKVLNSQSESSALTN  
QQPQNNGEVQNSKNQSDINHSTSGSHYENSQRGPVSSSDSSTNCKNAVVSDDLSEKEAWP  
SAPGSDPELASECMDADSASSESEERNITIMASGNTGGEKDGLRNSTGLGSQNKFFVVGSS  
SNNVGHGSSTGPWGFSGHAIISTCQVSVDAPESKSESSNNRMNAWGTVSSSSNGGLNPST  
LNSASNHGAWPVLENGLALKGPVSGSSGINIQCTIGQMPNNQSINSKVSGGSTHGTW  
GSLQETCESEVSGTQKVSFSGQPQNITTEMTGPNNTTNFMTSSLPNSGSVQNNELPSSNT  
GAWRVSTMNHPQMAPPQSMNGTSLSHLSNGESKSGGSYGTTWAGYGSNYSGDKCSGPNGQ  
ANGDTVNATLMQPGVNGPMGTNFQVNTNKGKGVWESGAANSQSTSWGSGNGANSRGRG  
WGTPAQNTGTNLPSVEWNKLPSNQHSNDSANGNGKFTTNGWKSTEEEDQGSATSQTNEQS  
SVWAKTGGTVESDGSTESTGRLEEKGTGESQSRDRRKIDQHTLLQSIVNRTDLDPVLSN  
SGWGQTPIKQNTAWDTETSPRGERKTDNGTEAWGSSATQTFNSGACIDKTSPNGNDTSSV  
SGWGDPKPALRWGDSKSGSNCGGWEDDSAATGMVKSQWGNCKEKAANDSQKNKQGWG  
DGQKSSQGSVSASDNWGETSRNNHWGEANKSSSGSDSDRSVSGWNELGKTSSFTWGN  
NINPNSSGWEDESKPTPSQGWGDPKSNQSLGWGDSSKPVSSPDWNKQQDIVGSWGIPP  
ATGKPPGTGWLGGPIPAKAKKEEPTGWEESPESIRRKMEIDDGTSAWGDPSKYNKYKNVN  
MWNKNVPNGNSRSDQQAQVHQLLTPASAINKEASSGSGWGEPPWEPSTPATTVDNGTSA  
WGKPIDSGPSWGEPIAAASSTTWGSSSVGPQALSKSGPKSMQDGCWGDMDPLPGNRPTG  
WEEEDVEIGMWNSSSQELNSSLNWPPYTKKMSSKGLSGKKRRRERGMKGGNKQEEAW  
INPFVKQFSNISFSRDSPEENVQSNKMDLSGGMLQDKRMEIDKHSLNIGDYNRTVGKPGP  
SRPQISKESMERNPYFDKDGIVADESQNMQFMSSQSMKLPPSNSALPNQALGSIAGLGM  
QNLNSVRQNGNPSMFGVGNTAAQPRGMQPPAQPLSSSQPNLRAQVPPPLSPQVPVSL  
KYAPNNGGLNPLFGPQQVAMNLQSLNQLSQISQLQRLLAQQQRAQSQRVPSGNRPQQ  
DQQRPLSVQQQMMQSRQLDPNLLVKQTPPSQQQLHQPAMKSFLDNVMPHTTPELQK  
GPSPINAFSNFPIGLNSNLNVNMDMNSIKEPQSRLRKWTTVDSISVNTSLDQNSSKHGAI  
SSGFRLEESPFVYPDFMNSSTSPASPPGSIGDWPRAKSPNGSSSVNWPPEFRPGEPWKG  
YPNIDPETDPYVTPGSVINNLINTVREVDHLRDRNSGSSSLNTTLPSTSAWSSIRASN  
YNVPLSSTAQSTSARNSDSKLTWSPGSVTNTSLAHELWKVPLPPKNITAPSRPPPGLTGQ  
KPPLSTWDNSPLRIGGGWGNSDARYTPGSSWGESSGRITNWLVLKNLTPQIDGSTLRTL  
CMQHGLPITFHLNPLHGNAIVRYSSKEEVVKAQKSLHMCVLGNTTILAEFASEEEISRFF  
AQSQSLTPSPGWQLGSSQSRLGSLDCSHSFSSRTDLNHWNGAGLSGTNCGDLHGTSWLG  
TPHYSTSLWGPPSSDPRGISSPSPINAFSLVDHLGGGGESM

>sp|Q9P2Z0|THA10\_HUMAN THAP domain-containing protein 10 OS=Homo sapiens GN=THAP10 PE=1  
SV=1

MPARCVAAHCGNTTKSGKSLFRFPKDRVRLWDRFVRGCRADWYGGNDRSVICSDHFAP  
ACFDVSSVIQKNLRFSQLRLVAGAVPTLHRVPAPAPKRGEEDQAGRLDTRGELQAARH  
SEAAPGPVSCTRPRAGKQAAASQITCENELVQTQPHADNPSNTVTSPVTHCEECPVHKST  
QISLKRPRHRVGIQAKVKAFGKRLCNATTQTEELWSRTSSLFDIYSSDSETDWDIKS  
EQSDLSYMAVQVKEETC

>sp|Q9H0W7|THAP2\_HUMAN THAP domain-containing protein 2 OS=Homo sapiens GN=THAP2 PE=1  
SV=1

MPTNCAAAGCATTYNKHINISFHRFPLDPKRRKEWVRLVRRKNFVPGKHTFLCSKHFEAS  
CFDLTGQTRRLKMDAVPTIFDFCTHIKSMKLKSRNLLKKNNSCSPAGPSNLKSNISSQQV  
LLEHSYAFRNPMEAKKRIIKLEKEIASLRRKMKTCLQKERRATRRWIKATCLVKNLEANS  
VLPKGTSEHMLPTALSSLPLEDFKILEQDQDQDKTLLSLNLKQTKSTFI

>sp|Q8WTV1|THAP3\_HUMAN THAP domain-containing protein 3 OS=Homo sapiens GN=THAP3 PE=1  
SV=1

MPKSCAARQCCNRYSSRRKQLTFHRFPFSRPELLKEWVLNIGRGNFKPKQHTVICSEHFR  
PECFSAFGNRKNLKHNAVPTVFAFDPTQQVRENTDPASERGNASSSQKEKVLPEAGAGE  
DSPGRNMDTALEELQLPPNAEGHVQVSPRRPQATEAVGRPTGPAGLRRTPNKQPSDSHSY  
ALLDLDLSLKKKFLTLKENEKLKRLQAQRLVMRRMSSRLRACKGHQGLQARLGPEQQS

>sp|Q8WUY1|THEM6\_HUMAN Protein THEM6 OS=Homo sapiens GN=THEM6 PE=1 SV=2

MLGLLVALLALGLAVFALLDVWYLVRLPCAVLRARLLQPRVRDLLAEQRFPGRVLPDLD  
LLLHMNNARYLREADFARVAHLTRCGVLGALRELRAHTVLAASCARHRRSLRLLPEFEVR  
TRLLGWDDRAFYLEARFVSLRDGFVCALLRFRQHLLGTSPERVVQHLCQRRVEPPELPAD  
LQHWISYNEASSQLLRMESGLSDVTKDQ

>sp|P00734|THRB\_HUMAN Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

MAHVRGLQLPGCLALAALCSLVHSQHVLAPQQARSLLQVRRRANTFLEEVKGNLEREC  
VEETCSYEEAFEALESSTATDVFWAKYTACETARTPRDKLAACLEGNAEGLGTNYRGHV  
NITRSGIECQLWRSRYPHKPEINSTTHPGADLQENFCRNPDSSTTGPWCYTDDPTVRRQE  
CSIPVCGQDQVTVMTPRSEGSSVNLSPPLEQCVPDRGQQYQGR LAVTTHGLPCLAWASA  
QAKALSKHQDFNSAVQLVENFCRNPDGDEEGVWCYVAGKPGDFGYCDLNYCEEAVEEETG  
DGLDESDRAIEGRATSEYQTFNPRFTFGSGEADCGLRPLFEKKSLEDKTERELLESYI  
DGRIVEGSDAEIGMSPWQVMLFRKSPQELLCGASLISDRWVLTAAHCLLYPPWDKNFTEN  
DLLVRIGKHSRTRYERNIEKISMLEKIYIHPRYNWRENLDRIALMKLKKPVAFSDYIHP  
VCLPDRETAASLLQAGYKGRVTGWGNLKETWTANVGKGQPSVLQVVNLPIVERPVCKDST  
RIRITDNMFCAGYKPDGEGRGDACEGDSGGPFVMSKPFNNRWYQMGIVSWGEGCDRDGKY  
GFYTHVFRLLKKWIQKVIDQFGE

>sp|Q9UPZ6|THS7A\_HUMAN Thrombospondin type-1 domain-containing protein 7A OS=Homo sapiens  
GN=THSD7A PE=1 SV=4

MGLQARRWASGSRGAAGPRRGVLQLPLPLPLPLLLLLLRLPGAGRAAAQGEAEAPTLYL  
WKTGPWGRCMGDECGPGGIQTRAVWCAHVEGWTTLHTNCKQAERPNNQNCFKVCDWHKE  
LYDWRLGPWNQCQPVISKSLKPLECIKGEEGIQVREIACIQDKDIPAEDIICEYFEPK  
PLLEQAQLIPCQQDCIVSEFSAWSECSKTCGSLQHRTRHVAPPQFGGSGCPNLTEFQV  
CQSSPCEAEELRYSLVHGPWSTCSMPHSRQVRQARRRGKNKEREKDRSKGVKDPEARELI  
KKKRNRRNRQNRQENKYWDIQIGYQTREVMCINKTGKAADLSFCQKEKLPMTFQSCVITKE  
CQVSEWSEWSPSKTCHDMVSPAGTRVRTRTIRQFPIGSEKECFEFEEKEPCLSQGDGVV  
PCATYGWRTTEWTECRVDPLLSQQDKRRGNQTALCGGGIQTREYVCVQANENLLSQLSTH  
KNKEASKPMDLKLCTGPIPNNTQLCHIPCTEVEVSPWSAWGPCTYENCNDQQGKKGFKL  
RKRRITNEPTGGSGVTGNCPHLLAIPCEEPACYDWKAVRLGNCEPDNGKECGPGTQVQE  
VVCINSDGEEVDRQLCRDAIFPIPVACDAPCPKDCVLSWSTWSSCSHTCSGKTTEGKQI  
RARSILAYAGEEGGIRCPNSSALQEVRSNEHPCTVYHWQTGPWGQCIEDTSVSSFNTTT  
TWNGEASCSVMQTRKVICVRNVNGVGPKKCPESLRPETVRPCLLPCKKDCIVTPYSDW  
TSCPSSCKEGDSSIRKQSRHRV I IQLPANGGRDCTDPLYEEKACEAPQACQSYRWKTHKW  
RRCQLVPWSVQQDSPGAQEGCGPGRQARAITCRKQDGGQAGIHECLQYAGPVPALTQACQ

IPCQDDCQLTSWSKFSSCNGDCGAVRTRKRTLVGKSKKKEKCKNSHLYPLIETQYPCDK  
YNAQPVGNWSDCILPEGKVEVLLGMKVQGDIKECGQGYRYQAMACYDQNGRLVETSRCNS  
HGYIEEACIIPCPSDCKLSEWSNWSRCSKSCGSGVKVRSKWLREKPYNGGRPCPKLDHVN  
QAQVYEVVPCHSDCNQYLWVTEPWSICKVTFVNMRENCGEVQTRKVRMCQNTADGPSEH  
VEDYLCDPEEMPLGSRVCKLPCPEDCVISEWGPWTQCVLPCNQSSFRQRSADPIRQPADE  
GRSCPNAVEKEPCNLNKNKYHYDYNVTDWSTCQLSEKAVCGNGIKTRMLDCVRSDGKSVD  
LKYCEALGLEKNWQMNTSCMVECPVNCQLSDWSPWSECSQTCGLTGKMIRRRTVTQPFQG  
DGRPCPSLMDQSKPCPVKPCYRWQYQWSPCQVQEAQCGEGTRTRNISCVVSDGSADDF  
KVVDEEFCADIELIIDGKNMVLSESCSQPCPGDCYLKDWSSWSLCQLTCVNGEDLGGG  
IQVRSRPVIIQELNQHLCPQMLETKSCYDGGCYEYKWMASAWKSSRTVWCQRSDGIN  
VTGGCLVMSQPDADRSCNPPCSQPHSYCSETKTCHCEEGYTEVMSSNSTLEQCTLIPVVV  
LPTMEDKRGDVKTSRAVHPTQPSSNPAGRGRTWFLQPFPGDGRCLKTWVYGVAAGAFVLLI  
FIVSMIYLACKKPKPKPQRRQNNRLKPLTLAYDGDADM

>sp|Q9C0I4|THS7B\_HUMAN Thrombospondin type-1 domain-containing protein 7B OS=Homo sapiens  
GN=THSD7B PE=2 SV=2

MFPKSNLTVTCWVWRSMRKLFLLLSLLSHAAHLEGKKNQFIWKTGPWGRCTGDCGPGG  
VQSRVWCFHVDGWTSHLSNCGESNRPPKERSCFRVCDWHSDFQWEVSDWHHCVLVPYA  
RGEVKPRTAECVTAQHGLQHRMVRCIQKLNRTVVANEICEHFALQPTEQAACLI PCPRDC  
VVSEFLPWSNCSKCGKKLQHRTRAVIAPPLFGGLQCPNLTESRACDAPISCPLGEEY  
FSLKVGPPWSKCRPLHLKEINPSGRVTLDFNSDSNERVTFKHQSYKAHHHKSWSAIEIGYQ  
TRQVSTRSDGQNAML SLCLQDSFPLTVQSCIMPKDCETSQWSSWSPCSKTRSGSLLPG  
FRSRSRNVKHMAIGGGKECPELLEKEACIVEGELLQQCPRYSWRTSEWKECQVSLLEQQ  
DPHWHVTGPVCGGGIQTREYVCAQSVPAALRAKEVSRPVEKALCVGPAPLP SQLCNIP  
CSTDICIVSSWSAWGLCIHENCHDPQGGKGFRTQRHVLMESTGPAGHCPHLVESVPCEDP  
MCYRWLASEGICFPDHGKCGLGHRIKAVCQNDRGEDVSGSLCPVPPPPERKSCEIPCRM  
DCVLSEWTEWSSCSQSCSNKNSDGKQTRSRTILALAGEGGKPCPPSQALQEHRLCNDHSC  
MQLHWETSPWGPCSEDTLVTALNATIGWNGEATCGVGIIQTRRVFCVKSHVGVMTKRCPD  
STRPETVRPCFLPCKKDCIVTAFSEWTPCPRMCQAGNATVKQSRYRIIIQEAANGGQEC  
DTLYEERECEVSLCPVYRWPKQKWSPCILVPESVWQGITGSSEACGKGLQTRAVSCISD  
DNRSAEMMECLKQTNGMPLLVQECTVPCREDCTFTAWSKFTPCSTNCEATKSRRRQLTGK  
SRKKEKQDSDLYPLVETELCPDEFISQPYGNWSDCILPEGRREPHRGLRVQADSKECG  
EGLRFRAVACSDKNRPVDPSCSSSGYIQEKCVIPCPFDCKLSDWSSWGSCSSSGIGV  
RIRSKWLKEKPYNGGRPCPKLDLKNQAQVHEAVPCYSECNQYSWVVEHWSSCKINNELRS  
LRGGGTQSRKIRCNTADGEGGAVDSNLNQNDEIPPETQSCSLMCPNECVMSWGLWSK  
CPQSCDPHTMQRRTRHLLRPSLNSRTCAEDSQVQPCLLNENCFQFQYNLTWSTCQLSEN  
APCGQGVTRLLSCVCSDGKPVSMQCEQHNLEKPRMSIPCLVECVVNCQLSGWTAWTE  
CSQTCGHGGRMSRTRFIIMPTQGEGRPCPTELTQEKTCPVTCPYSWVLGNWSACKLEGGD  
CGEGVQIRSLSCMVHSGSISHAAGRVEDALCGEMPFQDSILKQLCSVPCPGDCHLTEWSE  
WSTCELTCIDGRSFETVGRQSRRTFIIQSFENQDSCPQQVLETRPCTGGKCYHYTWKAS  
LWNNNERTVWCQRSDGVNVTGGCSPQARPAAIRQCIPACRKPF SYCTQG GVCGEKGYTE  
IMKSNGLFDYCMKVP GSEDKKADVKNLSGKNRPVNSKIHDIFKGWSLQPLDPDGRVKIWW  
YGVSGGAFLIMIFLIFTSYLVCKKPKPHQSTPPQKPLTLAYDGDADM

>sp|Q9P016|THYN1\_HUMAN Thymocyte nuclear protein 1 OS=Homo sapiens GN=THYN1 PE=1 SV=1  
MSRPRKRLAGTSGSDKGLSGKRTKTENSGEALAKVEDSNPQKTSATKNCLKNLSSHWMK

SEPESRLEKGV DVKFSIEDLKAQPKQTTCWDGVRNYQARNFLRAMKLGEAAFFYHSNCKE  
PGIAGLMKIVKEAYPDHTQFEKNNPHYDPSSKEDNPKWSMVDVQFVRMMKRFIPLAELKS  
YHQAHKATGGPLKNMVLFRQLRSIQPLTQEEFDFVLSLEEKEPS

>sp|Q99595|TI17A\_HUMAN Mitochondrial import inner membrane translocase subunit Tim17-A  
OS=Homo sapiens GN=TIMM17A PE=1 SV=1

MEEYAREPCPWRIVD DCGAFTMG TIGGGIFQA IKGFRNSPVGVNHRLRGS LTAIKTRAP  
QLGGSFAVWGGLFS MIDCSMVQVRGKEDP WNSITSGALTGAILAARNGPVAMVGSAA MG  
ILLALIEGAGILLTRFASAQFPNGPQFAEDPSQLPSTQLPSSPFGDYRQYQ

>sp|Q96MW7|TIGD1\_HUMAN Tigger transposable element-derived protein 1 OS=Homo sapiens  
GN=TIGD1 PE=1 SV=1

MASKCSSERKSRTSLTNQKLEM IKLSEEGMSKAEIGRRLG LLRQTVSQQV VNAKEKFLKE  
VKSATPMNTRMIRKRN SLIADMEKVLV VVIEDQTSRN IPLSQSLIQNKAL TLFNSMKAER  
GVEAAEEKFEASRGWFMRFKERSHFHNIKAQGEAASADVEAAASYPEALAKI IDEGGYTK  
QQIFNVDETA FYWKKMPSRTFIAREEKSVP GFKASKDRLTLLGANAAGDFKLKPM LIYH  
SENPRALKNYTKSTLPVLYK WNSKARMTAHLFTA WFTFYKPTVETYCSEKKIPFKILL  
IDNAPSHPRALMEIYEEIN VIFMPANTTSILQPM DQGVISTFKSYLLRNTFHKALAAMDS  
DVSDGSGGSKLKT FWKGFTILDAIKNIRDSWEEVKLSTLTGVWKKLIPTLIDDYEGFKTS  
VEEVSADVVEIAKELELEVEPEDVTELLQSHDKLTDEELFLMDAQRKWFLEMESTPGED  
AVNIVEMTTKDLEYYINLVDKAAAGFERIDS NFERSSTVGKMLSNSIACYREIFHERKSQ  
LMRKASPM SYFRKLPPQPSAATTLTSQQPSTSRQD PPPAKRVRLTEGSD

>sp|Q6NT04|TIGD7\_HUMAN Tigger transposable element-derived protein 7 OS=Homo sapiens  
GN=TIGD7 PE=1 SV=1

MNKRKYTTLNLEEKMKVLSRIEAGRSLKSVMDEFGISKSTFYDIKKNKKLILDFVLKQD  
MPLVGAEKRKRTTGAKYGDVDDAVYMWYQQKRSAGVPVRGVELQAAAERFARCFGR TDFK  
ASTGWLFRFRNRHAI GNRKGCGEQVLSSVSENV EFPFRQKLSMI IKEEKLCLAQLYSGDET  
DLFWKSMPE NSQASRKDICLP GKINKERLSAFLCANADGTHKLKSI IIGKSKLPKSVKE  
DTSTLPVIYKPSKDVWFTREL FSEWFFQNFVPEVRHFQLNVLRFHDEDVRALLLDSCPA  
HPSSSELTSEDGRIKCMFFPHNTSTLIQPMNQGVILSCKRLYRWKQLEESLVIFEESDDE  
QEKGDKGVS KIKIYNIKSAIFNWA KSWEVKQITIANAWENLLYKKEPEYDFQGLEHGDY  
REILEKCGELETKLDDRVWLN GDEEKGCLLKTGGITKEVVQKGGEAEKQTAEFKLSAV  
RESLDYLLDFVDATPEFQRHFH TLKEMQQEIVKKQFQSKIHSRIGSFLKPRPHNIKDSFS  
GPSTSGSNH

>sp|Q495A1|TIGIT\_HUMAN T-cell immunoreceptor with Ig and ITIM domains OS=Homo sapiens  
GN=TIGIT PE=1 SV=1

MRWCLLLIWAQGLRQAPLASGMMTG TIETTGNISA EKGGSII LQCHLSSTTAQVTQVNWE  
QQDQLLAICNADL GWHISPSFKDRVAPGPGLGLTLQSLTVNDTGEYFCIYHTYPDGT YTG  
RIFLEVLESSVAEHGARFQI PLLGAMAATLVVICTAVIVVVALTRKKKALRIHSVEGDLR  
RKSAGQEEWSPSAPSPPGSCVQAEAAPAGLCGEQRGEDCAELHDYFNVLSYRSLGNC SFF  
TETG

>sp|A6NFA1|TIKI2\_HUMAN Metalloprotease TIKI2 OS=Homo sapiens GN=TRABD2B PE=1 SV=2

MHAALAGPLLAALLATARARPQPPDGGQCRPPGSQRDLNSFLWTIRDP PPAYLFGTIHVP  
YTRVWDFIPDNSKA AFQASTRVYFELDLTPYTISALASCQLLPHGENLQDVLPHELYWR  
LKRHLDYVKLMMPSWMTPAQRGKGLYADYLFNAIAGNWERKRPVWVMLMVNSLTERDVRF  
RGVPVLDLYLAQQA EKMKKTGAVEQVEEQCHPLNGLNFSQVLFALNQTL LQQESVRAG

SLQASYTTEDLIKHYNCGDLSAVIFNHDTSQLPNFINTTLPHEQVTAQEIDSYFRQELI  
YKRNERMGKRVMA LLRENE DKICFFAFGAGHFLGNNTVIDILRQAGLEV DHTPAGQAIHS  
PAPQSPAPSPEGTSTSPAPVTPAAAVPEAPSVTPTAPPEDEDPALSPHLLL PDSLSQLEE  
FGRQRKWHKRQSTHQRPQFN DLWVRIEDSTTASPPPLPLQPTHSSGTAKPPFQLSDQLQ  
QQDPPGPASSAPTGLLLPAIATTIAVCFL LHSLGPS

>sp|P35625|TIMP3\_HUMAN Metalloproteinase inhibitor 3 OS=Homo sapiens GN=TIMP3 PE=1 SV=2  
MTPWLGLIVLLGWSLGDWGAEACTCSPSHPQDAFCNSDIVIRAKVVGKKLVKEGPFRTL  
VYTIKQMKMYRGFTKMPHVQYIHTEASESLCGLKLEVNKYQYLLTGRVYDGKMYTGLCNF  
VERWDQLTLSQRKGLNYRYHLGCNCKIKSCYLLPCFVTSKNECLWTDMLSNFGYPGYQSK  
HYACIRQKGGYCSWYRGWAPPDKSIINATDP

>sp|Q04724|TLE1\_HUMAN Transducin-like enhancer protein 1 OS=Homo sapiens GN=TLE1 PE=1  
SV=2

MFPQSRHPTPHQAAGQPFKFTIPESLDRIKEEFQFLQAQYHSLKLECEKLASEKTEMQRH  
YVMYYEMS YGLNIEMHKQTEIAKRLNTICAQVIPFLSQEHQQVAQAVERAQVMTAELN  
AIIQQQLQAQHL SHGHGPPVPLTPHP SGLQPPGIPPLGGSAGLLALSSALSGQSHLAIK  
DDKKHHDAEHHRDREP GTSNSLLVPDSL RGTDKRRNGPEFSNDIKRKVDDK DSSHYDS  
GDKSDDLVDVSNEDPSSPRASPAHSPRENGIDKNRLKKDASSPASTASSASSTSLK  
SKEMSLHEKASTPVLKSSTPTPRSDMPTPGTSATPGLRPLGLGKPPAIDPLVNQAAAGLRT  
PLAVPGPYPA PFGMPHAGMNGELTSPGAAYASLHNMS PQMSAAAAAAV VAYGRSPMVG  
FDPPPHMRVPTIPPNLAGIPGGKPAYS FHV TADGQM QPVFPFPDALIGPGIPRHARQINT  
LNHGEVCAVTISNPTRHVYTGKGCVKVDI SHPGNKSPVSQLDCLNRDNYIRSKLLP  
DGCTLIVGGEASTLSIWDLAAPT PRIKAELTSSAPACYALAI SPDSKVCFSCCSDGNIAV  
WDLHNQTLVRQFQGHTDGASCIDISNDG TKLWTGGLDNTVRSWDLREGRQLQQHDFTSQI  
FSLGYCPTGEWLAVGMESSNVEVLHV NKPDKYQLHLHESCVLSLK FAYCGKWFVSTGKDN  
LLNAWRTPYGASIFQSKESSVLSCDISVDDKYIVTGSGDKKATVYEVIIY

>sp|Q04726|TLE3\_HUMAN Transducin-like enhancer protein 3 OS=Homo sapiens GN=TLE3 PE=1  
SV=2

MYPQGRHPAPHQPGQPGFKFTVAESCDRIKDEFQFLQAQYHSLKVEYDKLANEKTEMQRH  
YVMYYEMS YGLNIEMHKQTEIAKRLNTILAQIMPFLSQEHQQVAQAVERAQVMTTELN  
AIIQQQLQAQHL SHATHGPPVQLPPHP SGLQPPGIPVTGSSSGLLALGALGSQAHLTV  
KDEKNHHELDHRERESSANNSVSPSESLRASEKHRSADYSMEAKKRKAEEKDSL SRYDS  
DGDKDDLVDVSNEDPATPRVSPAHSPPENGLDKARSLKKDAPTSPASVASSSTPSSK  
TKDLGHNDKSSTPGLKSNTPTPRNDAPTGTSTTPGLRSM PGKPPGMDPIGIMASALRTP  
ISITSSYAAPFAMM SHHEMNGSLTSPGAYAGLHNIPPQMSAAAAAAAYGRSPMVSFGA  
VGFDPPHMRATGLPSSLASIPGGKPAYS FHV SADGQM QPVFP PHDALAGPGIPRHARQI  
NTLSHGEVCAVTISNPTRHVYTGKGCVKIWDISQPGSKSPISQLDCLNRDNYIRSKL  
LPDGRTLIVGGEASTLTIWDLASPT PRIKAELTSSAPACYALAI SPDAKVCFSCCSDGNI  
AVWDLHNQTLVRQFQGHTDGASCIDISHDGT KLWTGGLDNTVRSWDLREGRQLQQHDFTS  
QIFSLGYCPTGEWLAVGMESSNVEVLHHTKPD KYQLHLHESCVLSLK FAYCGKWFVSTGK  
DNLLNAWRTPYGASIFQSKESSVLSCDISADDKYIVTGSGDKKATVYEVIIY

>sp|Q9UKI8|TLK1\_HUMAN Serine/threonine-protein kinase tousled-like 1 OS=Homo sapiens  
GN=TLK1 PE=1 SV=2

MSVQSSSGSLEGPPSWSQLSTSPTPGSAAAARSLLNHTPPSGRPREGAMDELHSLDPRRQ  
ELLEARFTGVASGSTGSTGSCSVGAKASTNNESSNHSFGSLGSLSDKESETPEKKQSESS

RGRKRKAENQNESSQKSIIGRGHKISDYFEYQGGNGSSPVRGIPPAIRSPQNSHSHSTP  
SSSVRPNSPPTALAFGDHPIVQPKQLSFKIIQTDLTMLKLALESNKIQDLEKKEGRID  
DLLRANCDLRRQIDEQQKLEKYKERLNKCISMSKLLIEKSTQEKLSSREKSMQDRLRL  
GHFTTVRHGASFTEQWTDGFAFQNLVKQEQEWNQQREDIERQRKLLAKRKPPTANNSQAP  
STNSEPKQRKNKAVNGAENDPFVRPNLPQLTLAEYHEQEEIFKLRLGHLKKEEAEIQAE  
LERLERVRNLHIRELKRINNEDNSQFKDHPTLNERYLLLHLLGRGGFSEVYKAFDLYEQR  
YAAVKIHQLNKSWEDEKKENYHKHACREYRIHKELDHPRIVKLYDYFSLDTEFCTVLEY  
CEGNLDFYLKQHKLMSEKEARSIVMQIVNALRYLNEIKPPIIHYDLKPGNILLVDGTAC  
GEIKITDFGLSKIMDDSYGVDGMDLTSQGAGTYWYLPPECFVVGKEPPKISNKVDVWSV  
GVIFFQCLYGRKPFQHNQSQDILQENTILKATEVQFPVKPVVSSEAKAFIRRCLAYRKE  
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>sp|Q86UE8|TLK2\_HUMAN Serine/threonine-protein kinase tousled-like 2 OS=Homo sapiens  
GN=TLK2 PE=1 SV=2

MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQLCSVGSLSLSDKEVETPEKKQNDQ  
RNRKRKAEPYETSQKGTGRGHIISDYFEFAGGSAPGTSPGRSVPPVARSSPQHSLSNPL  
PRRVEQPLYGLDGSAAKEATEEQSALPTLMSVMLAKPRLDTEQLAQRGAGLCFTFVSAQQ  
NSPSSSTGSGNTEHSCSSQKQISIQHRQTQSDLTIEKISALENSKNSDLEKKEGRIDDLR  
ANCDLRRQIDEQQKMLEKYKERLNRCVTMSKLLIEKSKQEKMACRDKSMQDRLRLGHFT  
TVRHGASFTEQWTDGYAFQNLIKQQRINSQREEIERQRKMLAKRKPAMGQAPPATNEQ  
KQRKSKTNGAENETPSSGNTELKDTAPALGAHSLRLTLAEYHEQEEIFKLRLGHLKKEE  
AEIQAELELERLERVRNLHIRELKRHNEDNSQFKDHPTLNDRYLLLHLLGRGGFSEVYKAF  
DLTEQRYVAVKIHQLNKNRDEKKENYHKHACREYRIHKELDHPRIVKLYDYFSLDTSF  
CTVLEYCEGNLDFYLKQHKLMSEKEARSIMQIVNALKYLNEIKPPIIHYDLKPGNILL  
VNGTACGEIKITDFGLSKIMDDSYNSVDGMELTSQGAGTYWYLPPECFVVGKEPPKISN  
KVDVWSVGVIIFYQCLYGRKPFQHNQSQDILQENTILKATEVQFPKPVVTPPEAKAFIRR  
CLAYRKEDRIDVQQLACDPYLLPHIRKSVSTSSPAGAAIASTSGASNNSSSN

>sp|O43897|TLL1\_HUMAN Tollid-like protein 1 OS=Homo sapiens GN=TLL1 PE=1 SV=1

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GDIALDDEDLNIFQIDRTIDLQNPFGNLGHTTGGLGDHAMSCKRGALYQLIDRIRRI  
GLEQNNTVKGKVPLQFSGQNEKNRVPRAATSRTERIWPGGVIPYVIGGNFTGSQRAMFKQ  
AMRHWEKHTCVTFIERSDEESYIVFTYRPGCCSYVGRNGNGPQAISIGKNCDKFGIVVH  
ELGHVIGFWHEHTRPDRDNHVTIIRENIQPGQEYNFLKMEPGEVNSLGERYDFDSIMHYA  
RNTFSRGMFLDTILPSRDDNGIRPAIGQRTRLSKGDIAQARKLYRCPACGETLQESNGNL  
SSPGFPNGYPSYTHCIWRVSVTPGEKIVLNFTTMDLYKSSLCWYDIEVRDGYWRKSPLL  
GRFCGDKLPEVLTSTDSRMWIEFRSSSNWVGKFAAVYEACGGEIRKNEGQIQSPNYPD  
DYRPMKECVWKITVSESYHVGLTFQSFEIERHDNCAVDYLEVRDGTSENSPLIGRFCGYD  
KPEDIRSTNTLWMKFVSDGTVNKAGFAANFFKEEDECAKPDGCGEQRCNLTLGSYQCA  
CEPGYELGPDRRSCEAACGGLLTKLNGTITTPGWPKEYPPNKNVCVQVAVPTQYRISVKF  
EFFELEGENVCKYDYVEIWSGLSSESKLHGKFCGAEVPEVITSQFNNMRIEFKSDNTVSK  
KGKFAHFFSDKDECKDNGGCQHECVNTMGSYMCCRNQFVLHDNKHDCKEAECEQKIHS  
PSGLITSPNWPDKYPSRKECTWEISATPGHRIKLAFFSEFEIEHQECAYDHLEVFDGETE  
KSPILGRLCGNKIPDPLVATGNKMFVRVSDASVQRKGFQATHSTECGRLKAESKPRDL  
YSHAQFGDNNYPGQVDCWLLVSEGRSRLSFSQTFEVEEEADCGYDYVELFDGLDSTAV  
GLGRFCGSGPPEEIIYSIGDSVLHIFHTDDTINKKGFHIRYKSIRYPDTTHTTK



>sp|Q9Y6L7|TLL2\_HUMAN Tollid-like protein 2 OS=Homo sapiens GN=TLL2 PE=1 SV=1

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FWGDIALDEDDLKLFHIDKARDWTKQTVGATGHSTGGLEEQAESSPDTTAMDTGTKEAG  
KDGRENTLLHSPGTLHAAAKTFSPRVRATTSTRTERIWPGGVIPYVIGGNFTGSQRAIF  
KQAMRHWEKHTCVTFIERTDEESFIVFSYRTCGCCSYVGRGGGPQAISIGKNCDKFGIV  
AHELGHVVGFWHEHTRPDRDQHVTIIRENIQPGQEYNFLKMEAGEVSSLGETYDFDSIMH  
YARNTFSRGVFLDTILPRQDDNGVRPTIGQVRVLSQGDIAQARKLYKCPACGETLQDTTG  
NFSAPGFPNGYPSYSHCVWRISVTPGEKIVLNFTSMDLFSRLCWYDYVEVRDGYWRKAP  
LLGRFCGDKIPEPLVSTDSRLWVEFRSSSNILGKGFFAAYEATCGGDMNKDAGQIQSPNY  
PDDYRPSKECVWRITVSEGFHVGLTFQAFEIERHDSAYDYLEVRDGPTEESALIGHFCG  
YEKPEDVKSSSNRLWMKFVSDGSINKAGFAANFFKEVDECSWPDHGGCEHRCVNTLGSYK  
CACDPGYELAADKKMCEVACGGFITKLNGTITSPGWPKEYPTNKNCVQVVAQAQYRISL  
QFEVFELEGNDVCKYDFVEVRSGLSPDAKLHGRFCGSETPEVITSQSNNMRVEFKSDNTV  
SKRGFRAHFFSDKDECAKDNCGCQHECVNTFGSYLCRCRNGYWLHENGHDCKEAGCAHKI  
SSVEGTLASPNWPKYPSRRECTWNISSTAGHRVKLTFNEFEIEQHQCAYDHLEMYDGP  
DSLAPILGRFCGSKKPDPTVASGSSMFLRFYSDASVQRKGFQAVHSTECGGRLKAEVQTK  
ELYSHAQFGDNNYPSEARCDWVIVAEDGYGVELTFRTFEVEEEADCGYDMEAYDGYDSS  
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>sp|Q9Y4G6|TLN2\_HUMAN Talin-2 OS=Homo sapiens GN=TLN2 PE=1 SV=4

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GIWLEAGRTLDDYMLRNGDILEYKKKQRPQKIRMLDGSVKTMVDDSKTVGELLVTICSR  
IGITNYEESLIQETIEEKKEEGTGTLKKDRTLLRDERKMEKLKAKLHTDDDLNWLDSR  
TFREQGV DENETLLRLRRKFFYSDQNVDSRDPVQLNLLYVQARDDILNGSHPVSFEKACEF  
GGFQAQIQFGPHVEHKHKPGFLDLKEFLPKEYIKQRGAEKRIQEHKNCGEMSEIEAKVK  
YVKLARSLRTYGVSFVLVKEKMKGKNKLVPRLLGITKDSVMRVDEKTKEVLQEWPLTTVK  
RWAASPKSFTLDGFEYQESYYSVQTTEGEQISQLIAGYIDIILKKKQSKDRFGLEGDEES  
TMLEESVSPKKSTILQQQFNRTGKAHGSVALPAVMRSGSSGPETFNVGSMPSPPQQQVMV  
GQMRHGHMPPLTSAQQALMGTTINTSMHAVQQAQDDLSELDLPLPGQDMASRVVWNQKVD  
ESKHEIHSQVDAITAGTASVNLTAGDPADTDYTAGCAITTISSNLTEMSKGVKLLAAL  
MDDEVGSGEDLLRAARTLAGAVSDLLKAVQPTSGEPRQTVLTAAGSIGQASGDLLRQIGE  
NETDERFQDVMLSLAKAVANAAAMLVLKAKNVAQVAEDTVLQNRVIAAATQCALSTSQVLV  
ACAKVVSPTISSPVCQEQLIEAGKLVDRSVENCVRACQAATDSELLKQVSAAASVVSQA  
LHDLLQHVRQFASRGEPIGRYDQATDTIMCVTESIFSSMGDAGEMVRQARVLAQATSDLV  
NAMRSDAEAEIDMENSCKLLAAAKLLADSTARMVEAAKGAAANPENEDQQQRLREAAEGL  
RVATNAAAQNAIKKKIVNRLEVAAKQAAAAATQTIAASQNAAVSNKNPAAQQQLVQSCKA  
VADHIPQLVQGVRSQAQAEDLSAQLALIISSQNFLQPGSKMVSSAKAAVPTVSDQAAAM  
QLSQCAKNLATSLAELRTASQKAHEACGPMEIDSALNTVQTLKNELQDAKMAAVESQLKP  
LPGETLEKCAQDLGSTSKAVGSSMAQLLTCAAQGNEHYTGVAARETAQALKTLAQAARGV  
AASSTDPAAAHAMLDSARDVMEGSAMLIQEAQALIPGDAERQQRLAQVAKAVSHSLNN  
CVNCLPGQKQDVVALKSIGESSKLLVDSLPPSTKPFQEAQSELNQAADLNQSAGEVVH  
ATRGQSGELAAASGKFSDDFDEFDAGIEMAGQAQTKEDQIQVIGNLKNISMASKLLLA  
AKSLSDPGAPNAKNLLAAARAVTESINQLITLCTQQAPGQKECDNALRELETVKGMLD  
NPNEPVSLSYFDCIESVMENSKVLGESMAGISQNAKTGDLPAFGECVGIASKALCGLTE  
AAAQAAAYLVGISDPNSQAGHQGLVDPIQFARANQAIQMACQNLVDPGSSPSQVLSAATIV

AKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANLVKTIKALDGFSEDNRNKC  
RIATAPLIEAVENLTAFASNPEFVSIPAQISSEGSQAQEPILVSAKTMLESSSYLIRTAR  
SLAINPKDPPTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRCIRDIEQA  
SLAAVSQSLATRDDISVEALQEQLTSVVQEIGHLIDPIATAARGEAAQLGHKVTQLASYF  
EPLILAAVGVASKILDHQQQMTVLDQTKTLAESALQMLYAAKEGGGNPKAQHTHDAITEA  
AQLMKEAVDDIMVTLNEAASEVGLVGGMVDAIAEAMSKLDEGTPPEPKGTFVDYQTTVVK  
YSKAIAVTAQEMMTKSVTNPEELGGLASQMTSDYGHAFQGGMAAATAEPPEIGFQIRTR  
VQDLGHGCIFLVQKAGALQVCPTDSYTKRELIECARAVTEKVSLSLQAGNKGTAQCI  
TAATAVSGIIADLDTIMFATAGTLNAENSETFADHRENILKTAKALVEDTKLLVSGAAS  
TPDKLAQAAQSSAATITQLAEVVKLGAASLGSDPETQVVLINAIKDVAKALSDLISATK  
GAASKPVDDPSMYQLKGAAKVMVTNVTSLKTVKAVEDEATRGRATRAEATIECIKQELTV  
FQSKDVPEKTSSPEESIRMTKGITMATAKAVAAGNSCRQEDVIATANLSRKAVSDMLTAC  
KQASFHPDVSDEVTRALRFGTECTLGYLDLLEHVLVILQKPTPEFKQQLAAFSKRVAGA  
VTELIQAAEAMKGTIEWDPEDPTVIAETELLGAAASIEAAAKKLEQLKPRAKPKQADETL  
DFEEQILEAAKSIAAATSALVKSASAAQRELVAQGVKSIPANAADDGQWSQGLISAARM  
VAAATSSLCEANASVQGHASEEKLISSAKQVAASTAQLLVACKVKADQDSEAMRRLQAA  
GNAVKRASDNLVRAAQKAAGKADDDDVVVKTKFVGGIAQIIAAQEEMLKKEREELEARK  
KLAQIRQQQYKFLPTELREDEG

>sp|Q9NR97|TLR8\_HUMAN Toll-like receptor 8 OS=Homo sapiens GN=TLR8 PE=1 SV=1

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VGKYVTELDLSDNFITHITNESFQGLQNLTKINLNHNPNVQHNGNPGIQSNGLNITDGA  
FLNLKNLRELLLEDNQLPQIPSGLPESLTELSTIQNNIYNITKEGISRLINLKNLYLAWN  
CYFNKVCETNIEDGVFETLTNLELLSLSFNSLSHVPPKLPSSLRKLFLSNTQIKYISEE  
DFKGLINLTLLDSGNCPRCFNAPFCVPCDGGASINIDRFQNLTLRLYNLSSTSLR  
KINAAWFKNMPHLKVLDFENYLVGEIASGAFLTMLPRLEILDLSFNLIKGSYPQHINIS  
RNFSKLLSLRALHLRGYVFQELREDDFQPLMQLPNLSTINLGINFIKQIDFKLFQNFNL  
EIIYLSENRISPLVKDTRQSYANSSSFQRHIRKRRSTDFEFDPHSNFYHFRPLIKPQCA  
AYGKALDLSLNSIFFIGNQFENLPDIACLNLSANSNAQVLSGTEFSAIPHVKYLDLTNN  
RLDFDNASALTELDLEVLDSYNHYFRIAGVTHHLEFIQNFTNLKVLNLSHNNIYTLT  
DKYNLESKSLVELVFSGNRLDILWNDDNRYISIFKGLKNLTRLDSLNLKHIPNEAFL  
NLPASLTELHINDNMLKFFNWTLQGFPRLELLDLRGNKLLFLTDSLSDFTSSLRTLILLS  
HNRISHLP SGFLSEVSSLKHLDSLNLKLTINKSALETKTTKL SMLHLHGNPFECTCDI  
GDFRRWMEHLNVKIPRLVDVICASPGDQRGKSIVSLELTTCVSDVTAVILFFFTFFITT  
MVMLAALAHHLFYWDVWFIYNVCLAKVKGYSLSSTSQTIFYDAYISYDTKDASVTDWVINE  
LRYHLEESRDKNVLLCLEERDWDPLAIDNLMQSIQSKKTVFVLTKKYAKSWNFKTAF  
YLALQRLMDENMDVIFILPEVLQHSQYLRLRQRICKSSILQWPDNPKAEGFLFWQTLRN  
VVLTENDSRYNMYVDSIKQY

>sp|Q7Z6W1|TMC02\_HUMAN Transmembrane and coiled-coil domain-containing protein 2 OS=Homo sapiens GN=TMC02 PE=2 SV=1

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ILLGIGIYALWKRISIQSIQKTLLFVITLYKLYKKGSHIFEALLANPEGSGLRIQDNNNLF  
LSLGLQEKILKKLTVENKMKNLEGIIVAQKPATKRDCSSEPYCSCSDCQSPLSTSGFTS  
PI

>sp|Q7Z7H5|TMED4\_HUMAN Transmembrane emp24 domain-containing protein 4 OS=Homo sapiens  
GN=TMED4 PE=1 SV=1

MAGVGAGPLRAMGRQALLLLALCATGAQGLYFHIGETEKRCFIEEIPDETMVIGNYRTQM  
WDKQKEVFLPSTPGLGMHVEVKDPDGKVLSRQYGSEGRFTFTSHTPGDHQICLHSNSTR  
MALFAGGKLRVHLDIQVGEHANNYPEIAAKDKLTEQLRARQLLDQVEQIQKEQDYQRYR  
EERFRLTSESTNQRLVWWSIAQTVILILTGIWQMRHLKSFFEAKKL

>sp|A2RUT3|TMM89\_HUMAN Transmembrane protein 89 OS=Homo sapiens GN=TMEM89 PE=2 SV=1

MLHVLASLPLLLLLVTSASTHAWSRPLWYQVGLDLQPWGCQPKSVEGCRGGLSCPGYWL  
PGASRIYPVAAMITTTMLMICRKILQRRRSQATKGEHPQVTTEPCGPWKRRAPISDHT  
LLRGVLHMLDALLVHIEGHLRHLATQRQIQIKGTSTQSG

>sp|Q9H3S3|TMPS5\_HUMAN Transmembrane protease serine 5 OS=Homo sapiens GN=TMPRSS5 PE=1  
SV=2

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AGVGSWLLVLYLCPAASQPISTGLQDEEITLSCSEASAEALLPALPKTVSFRINSEDFL  
LEAQVRDQPRWLLVCHEGWSPALGLQICWSLGHRLTHHKGVNLTDIKLNSSQEFAQLSP  
RLGGFLEEAWQPRNCTSGQVVSRLCSECGARPLASRIVGGQSVAPGRWPWQASVALGFR  
HTCGGSVLAPRWVTAACHMSFRLARLSSWRVHAGLVSHSAVRPHQALVERIIPHP  
SAQNHQDYDALLRLQALNFSDTVAVCLPAKEQHFPKGSRCWVSGWGHTHPSHTYSSDM  
LQDTVVPFLSTQLCNSSCVYSGALTTPRMLCAGYLDGRADACQGDGGPLVCPDGDWRLV  
GVVSWGRGCAEPNHPGVYAKVAEFLDWIHDTAQDSSL

>sp|Q7RTY8|TMPS7\_HUMAN Transmembrane protease serine 7 OS=Homo sapiens GN=TMPRSS7 PE=2  
SV=3

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KQKSKKKVPFVWVQNKIILFTVFLFILAIAWTLLWLYISKTESKDAFYFAGMFRITNIE  
FLPEYRQKESREFLSVSRTVQVINLVYTTSAFSKFYEQSVVADVSSNKGGLLVHFWIV  
FVMPRAKGHIFCEDCVAAILKDSIQTSIINRTSVGSLQGLAVDMDSVVLNAGLRSDYSST  
IGSDKGCQYFYAEHLSLHYPLEISAASGRMLMCHFKLVAIVGYLIRLSIKSIQIEADNCV  
TDSLTIYDSSLPIRSSILYRICEPTRTLMFVSTNNMLVTFKSPHIRRLSGIRAYFEVI  
PEQKCENTVLVKDITGFEGKISSPYPSYPPKCKCTWKFTSLSTLGIALKFYNYISITK  
KSMKGCEHGWWEINEHMYCGSYMDHQTIFRVPSPLVHIQLQCSSLSDKPLLAEYGSYNI  
SQPCPVGSFRCSGLCVPQAQRCDGVNDCFDESDELFCVSPQACNTSSFRQHGPLICDG  
FRDCENGRDEQNCTQSI PCNNRTFKCGNDICFRKQNAKCDGTVDGPDGSDEEGCTCSRSS  
SALHRIIGGTDITLEGGWPVQVSLHFVGSAYCGASVISREWLLSAHCFHGNRLSDPTPWT  
AHLGMYVQGNKAFVSPVRRIVVHEYYNSQTFDYDIALQLSIAWPETLKQLIQPICIPPT  
GQVRVSQEKCVWTGWRRHEADNKGSLVLQQAEEVELIDQTLQVSTYGIITSRLCAGIMS  
GKRACKGDSGGPLSCRRKSDGKWILTGIVSWHGSGRPNFPGVYTRVSNFVFWIHKYVP  
SLL

>sp|Q9C0B7|TNG6\_HUMAN Transport and Golgi organization protein 6 homolog OS=Homo sapiens  
GN=TANGO6 PE=1 SV=2

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SALEDKFLKDPQWKNLKLRLDEIADKAEPQNSVDVTSFTSQTLTLLCLKETMIRLAANFNPGK  
PNPRTPEVAPALSPDALSISQKTVQFVLQFVVTGICPYLMPGVGVPLRYRTEFGAVVQ  
DVVCFDAAPDATTRLYTSCKALLNVAQHTSLGSLIFCHHFGDIAAGLCQLGFCPTKRKLL  
TPAEEVLTEEERTLSRGALRDMLDQVYQPLAVRELLILQGGPPQSCTDVKTQMRCRAPAW

LRRLCGQLLSERLMRPNQVAVVRGILEGAGAGAAGGSDAEVTAADWKKCDLIAKILASC  
PQQSLSPENYYRDICPVLDLHFQDKLTARQFQRVATTTFITLSRERPHLAAYLLQPV  
LAPLHRCNLTAELSESMDVPGTILVTEEELSRCIEDVFKVYVVGNEPLTVLMDSLPLVLG  
VLFLLYCFTKQSVSHIRSLCQEILLWILGKLERKKAIASLKGFAGLDKAVPSLHSLCQFR  
VATQGGIMITIKEAISDEDEDEALYQKVSSEQGRVEHLGDLLSHCQECGLAGDFFIFCLK  
ELTHVASENETELKTEPFSSKSLELEQHQHTLLVEGQERKLLVLQMAVLCERMSEQIFT  
NVTQVVDVFAATLQRACASLAHQESTVESQTLSSMGLVAVMLGGAVQLKSSDFAVLKQ  
LLPLLEKVSNTYDPVVIQELAVDLRITISTHGAFATEAVSMAAQSTLNRKDLEGKIEEQQ  
QTSHERPTDVAHSHLEQQQSHETAPQTGLQSNAPIIPQGVNEPSTTTSQKSGSVTTEQLQ  
EVLLSAYDPQIPTRAAALRTLSSHIEQREAKALEMQEKLLKIFLENLEHEDTFVYLSAIQ  
GVALLSDVYPEKILPDLLAQYDSSKDKHTPETRMKVGEVLMRIVRALGDMVSKYREPLIH  
TFLRGVRDPDGAHRASSLANLGELCQRLDFLLGSVVHEVTACLIATAKTDGEVQVRRAAI  
HVVVLLLRGLSQKATEVLSAVLKDLYHLLKHVVCLPDDVAKLHAQLALEELDDIMKNFL  
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>sp|Q8NFZ5|TNIP2\_HUMAN TNFAIP3-interacting protein 2 OS=Homo sapiens GN=TNIP2 PE=1 SV=1

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KEVLLRRSMAEGERARAASDVLCRSLANETHQLRRTLATAHMCQHAKCLDERQHAQR  
NVGERSPDQSEHTDGHSTSVQSVIEKLQEENRLLKQKVTHVEDLNAKWQRYNASRDEYVRG  
LHAQLRGLQIPHEPELMRKEISRLNRQLEEKINDCAEVKQELAASRTARDAALERVQMLE  
QQILAYKDDFMSEADRERAQSRIQELEEKVASLLHQVSWRQDSREPDAGRIHAGSKTAK  
YLAADALELMVPGGWRPGTGSQQPEPPAEGGHPGAAQRGGDLQCPHCLQCFSDEQGEEL  
LRHVAECCQ

>sp|Q9H2K2|TNKS2\_HUMAN Tankyrase-2 OS=Homo sapiens GN=TNKS2 PE=1 SV=1

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PLHFAAGFGRKDVVEYLLQNGANVQARDDGGLIPLHNACSFHGAEVNLLL RHGADPNAR  
DNWNYTPLHEAAIKGKIDVCIVLLQHGAETIRNTDGR TALDLADPSAKAVLTGEYKKDE  
LLESARSGNEEKMMLLTPLNVNCHASDGRKSTPLHLAAGYNRVKIVQLLLQHGA DVHAK  
DKGDLVPLHNACSYGHYEVELLVKHGACVNAMD LWQFTPLHEAASKNRVEVCSLLSYG  
ADPTLLNCHNKS AIDLAPTQPKERLAYEFKGHSLQAAREADVTRIKKHL SLEMVNFKH  
PQTHETALHCAA SPYPKRKQICELLRKGANINEKTKEFLTPLHVASEKAHNDVVEVVV  
KHEAKVNALDNLGQTS LHRAAYCGHLQTCRLLLSYGC DPNIISLQGFTALQMGNENVQQL  
LQEGISLGNSEADRQLLEAAKAGDVETVKKLCTVQSVNCRDIEGRQSTPLHFAAGYNRVS  
VVEYLLQHGA DVHAKDKGLVPLHNACSYGHYEVAELLVKHGA VVNVADLWKFTPLHEAA  
AKGKYEICKLLLQHGA DPTKKNRDGNTPDLVKDGDTDIQDLLRGDAALLDAAKKGCLAR  
VKKLSSPDNVNCRDTQGRHSTPLHLAAGYNNLEVAEYLLQHGA DVNAQDKGGLIPLHNAA  
SYGHVDVAALLIKYNACVNATDKWAFTPLHEAAQKGRTQLCALLLAHGADPTLKNQEGQT  
PLDLVSADDVSALLTAAMPSPALPSCYKPQVLNGVRSPGATADALSSGPSSPSSLSAASS  
LDNLSGSFSELSSVSSSGTEGASSLEKKEVPGVDFSITQFVRNLGLEHLM DIFEREQIT  
LDVLVEMGHKELKEIGINAYGHRHKLKIGVERLISGQQGLNPYLTNTSGSGTILIDLSP  
DDKEFQSV EEMQSTVREHRDGGHAGGIFNRYNILKIQKVCNKKL WERYTHRRKEVSEEN  
HNHANERMLFHGSPFVNAI IHKGFDERHAYIGGMFGAGIYFAENSSKSNQYVYGIGGGTG  
CPVHKDRSCYICHRQLLFCRVTLGKSFLQFSAMKMAHSPPGHHSVTGRPSVNGLALAEYV  
IYRGEQAYPEYLITYQIMRPEGMVDG

>sp|P02585|TNNC2\_HUMAN Troponin C, skeletal muscle OS=Homo sapiens GN=TNNC2 PE=1 SV=2  
MTDQQAEARSYLSEEMIAEFKAAFDMDADGGGDISVKELGTVMRMLGQTPKEELDAII  
EEVDEDGSGTIDFEEFLVMMVRQMKEDAKGKSEEELAEFRIFDRNADGYIDPEELAEIF  
RASGEHVTDEEIESLMKDGDKNNDGRIDFDEFLKMMEGVQ

>sp|P45379|TNNT2\_HUMAN Troponin T, cardiac muscle OS=Homo sapiens GN=TNNT2 PE=1 SV=3  
MSDIEEVVEEYEEEEQEEAAVEEEEDWREDEDEQEEAAEEDAEAEAETEETRAEEDDEEEE  
EAKEAEDGPMEESKPKRSPFNPVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHF  
ENRKKEEEELVSLKDRIERRRAERAEEQQRIRNEREKERQNRLAERARREEEENRRKAED  
EARKKKALSNMMHFGGYIQKQAQTERKSGKRQTEREKKKILAERRKVLAIIDLHNLNEDQLR  
EKAKELWQSIYNLEAEKFDLQEKFKQKYEINVLRNRINDNQKVSCTRKGAKVTGRWK

>sp|P50616|TOB1\_HUMAN Protein Tob1 OS=Homo sapiens GN=TOB1 PE=1 SV=1  
MQLEIQVALNFIIISYLNKLPRRRVNIFGEELERLLKKKYEGHWYPEKPYKSGSFRCIHI  
GEKVDPVIEQASKESGLDIDDVRGNLPQDLSVWIDPFVSYQIGEGPVKVLYVDDNNEN  
GCELDKEIKNSFNPEAQVFMPISDPASSVSSSPSPFGHSAAVSPTFMPRSTQPLTFTTA  
TFAATKFGSTKMKNSGRSNKVARTSPINLGLNVNDLLKQKAISSSMHSLYGLGLGSQQQP  
QQQQQPAQPPPPPPPPQQQQQKTSALSPNAKEFIFPNMQGGSSTNGMFPGDSPLNLSP  
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>sp|Q96GM8|TOE1\_HUMAN Target of EGR1 protein 1 OS=Homo sapiens GN=TOE1 PE=1 SV=1  
MAADSDDGAVSAPAASDGGVSKSTTSGEELVVQVPVVDVQSNNFKEMWPSLLLAIKTANF  
VAVDTELSGLDRKSLNQCIEERYKAVCHAARTSILSLGLACFKRQPDKGEHSYLAQV  
FNLTLTCMEEYVIEPKSVQFLIQHGFNFNQYAQGIPYHKGNDKGDESQSQSVRTLFLFL  
IRARRPLVLHNLIDLVLFLYQNFYAHLPESLGTFTADLCEMFPAIYDTKYAAEFHARFV  
ASYLEYAFRK CERENGKQRAAGSPHLTLEFCNYPSSMRDHIDYRCCLPPATHRPHPTSIC  
DNFSAYGWCP LGPQCPQSHDIDLII DTDEAAAEDKRRRRRRREKRKRALLNLPGTQTSGE  
AKDGPPKKQVCGDSIKPEETEVEVAADETRNLPHSKQGKNKDLEMGIKAAARPEIADRATS  
EVPGSQASPNPVPDGLHRAGFDAMFTGYVMAYVEVSQGPQPCSSGPWLPECHNKVYLSG  
KAVPLTVAKSQFSRSSKAHNQKMKLTWGSS

>sp|P11387|TOP1\_HUMAN DNA topoisomerase 1 OS=Homo sapiens GN=TOP1 PE=1 SV=2  
MSGDHLHNSQIEADFRLNDSHKHKDKHKDRDREHRHKEHKKEKDREKSKHSNSEHKDSEKK  
HKEKEKTKHKDGSSEKHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSPPQIKDEP  
EDDGYFVPPKEDIKPLKRPRDEDDADYKPKIKTEDTKKEKKRKL EEEEDGKLKPKNKD  
KDKKVPEDNKKKKPKKEEQKWKWEEERYPEGIKWKFLHKGVPVFAPPYEPLPENVKF  
YYDGKVMKLSPKAEVATFFAKMLDHEYTTKEIFRKNFFKDWKEMTNEEKNIITNL SKC  
DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGL  
FRGRGNHPKMGMLKRRIMPEDIIINCSKDAKVPSPPGHKWKEVRHDNKVTWLVSWTENI  
QGSIKYIMLNPSRIKGEKDWQKYETARRLKKCVDKIRNQYREDWKS KEMKVRQRAVALY  
FIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVVEFDLFGKDSIRYYNK  
VPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNHLQDLMEGLTAKVFRTYNASITLQQ  
QLKELTAPDENIPAKILSYNRRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLAD  
ARRDLKSAKADAKVMKDAKTKKVVESKKKAVQRL EEQLMKLEVQATDREENKQIALGTSK  
LNYLDPRITVAWCKKWGVPIEKIYNKTQREKFAWAIDMADEYEF

>sp|Q13472|TOP3A\_HUMAN DNA topoisomerase 3-alpha OS=Homo sapiens GN=TOP3A PE=1 SV=1  
MIFPVARYALRWLRPEDRAFSRAAMEMALRGVRKVLCAEKNDAAKG IADLLSNGRMRR  
REGLSKFNKIYEFDYHLYGQNVMTVMTSVSGHLLAHDFQMQRKWQSCNPLVLF EAEIEK

YCPENFVDIKKTLERETRQCQALVIWTDREGENIGFEIIHVCKAVKPNLQVLRARFSE  
ITPHAVRTACENLTEPDQRVSDAVDVRQELDLRIGAAFRFQTLRLQRIFPEVLAEQLIS  
YGSCQFPPTLGFVVERFKAIQAFVPEIFHRIKVTHDHDGIVEFNWKRHRLFNHTACLVLVY  
QLCVEDPMATVVEVRSPKSKWRPQALDTVELEKLASRKLRIKAKETMRIAELYTQGYI  
SYPRTETNIFPRDLNLTVLVEQQTPDPRWGAFASILERGGPTPRNGNKSDQAHPIHPT  
KYTNNLQGDEQRLYEFIVRHFLACCSQDAQGQETTVEIDIAQERFVAHGLMILARNYLDV  
YPYDHWSDKILPVYEQGSHFQPSVEMVDGETSPPKLLTEADLIALMEKHGIGTDATHAE  
HIETIKARMYVGLTPDKRFLPGHLMGLVEGYDSMGYEMSKPDLRAELEADLKLICDGKK  
DKFVVLRRQQVQKYKQVFIKAVAKKLDALAQYFGNGTELAQQEDIYPAMPEPIRKCPQ  
CNKDMVLKTKNGGFYLSMGFPECRSAVWLPDSVLEASRDSSVCPVCQPHPVYRLKLF  
KRGSLPPTMPLEFVCCIGGCDDTLREILDRLFSGGPPRASQPSGRLQANQSLNMDNSQH  
PQPADSRQTGSSKALAQTLPPPTAAGESNSVTCNGQEAVLLTVRKEGPNRGRQFFKCNG  
GSCNFFLWADSPNPGAGGPPALAYRPLGASLGCPPGPGIHLGGFGNPGDGSSTGSLCS  
QPSVTRTVQKDGPNKGRQFHTCAKPREQQCGFFQWVDENTAPGTSGAPSWTGDRGRTLES  
EARSKRPRASSDMGSTAKKPRKCSLCHQPGHTRPFCPQNR

>sp|095985|TOP3B\_HUMAN DNA topoisomerase 3-beta-1 OS=Homo sapiens GN=TOP3B PE=1 SV=1

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VMTDLFLGKYNKWDKVDPAELFSQAPTEKKEANPKLNMVKFLQVEGRGCDYIVLWDCDK  
EGENICFEVLDAVLPVMNKAHGGEKTVFRARFSSITDIDICNAMACLGEPDHNEALSVD  
RQELDLRIGCAFRFQTKYFQGGYGLDSSLISFGPCQTPTLGFCEVERHDKIQSFKPETY  
WVLQAKVNTDKDRSLLLDWDRVRVFDREIAQMFLNMTKLEKAQVEATSRKEKAKQRPLA  
LNTVEMLRVASSSLGMGPQHMQTAERLYTQGYISYPRTETTHYPENFDLKGSLRQQANH  
PYWADTVKRLLAEGINRPRKGDAGDHPPITPMKSATEAELGGDAWRLYEYITRHFIAIV  
SHDCKYLQSTISFRIGPELFTCSGKTVLSPGFTEVMPWQSVPLEESLPTCQRGDAPVGE  
VKMLEKQTNPPDYLTEAELITLMEKHGIGTDASIPVHINNICQRNYVTVESGRRLKPTNL  
GIVLVHGYKIDAEVLPTIRSAVEKQLNLIAQGKADYRQVLGHTLDVFKRKFHYFVDSI  
AGMDELMEVSFSPLAATGKPLSRCGKCHRFMKYIAKPSRLHCSHCDETYTLPQNGTIKL  
YKELRCPLDDFELVLWSSGSRGKSYPLCPYCYNHPPFRDMKKGMGCNECTHPSCQHSLSM  
LGIGQCECESGLVLDPTSGPKWKVACNKCNNVAHCFENAHVRVVSADTCSVCEAALLD  
VDFNKAKSPLPGDETQHMGCVFCDPVFQELVELKHAASCHPMHRGGPGRRQGRGRGRARR  
PPGKPNPRRPDKMSALAAFYF

>sp|Q92547|TOPBP1\_HUMAN DNA topoisomerase 2-binding protein 1 OS=Homo sapiens GN=TOPBP1  
PE=1 SV=3

MSRNDKEPFFVKFLKSSDNSKCFKALESIKEFQSEELYQIITEEEALKIKENDRSLYIC  
DPFSGVVFDHLKKGCRIVGPQVIFCMHHQRCVPRAEHPVYNMMSDVTISCTSLEKEK  
REEVHKYVQMMGGRVYRDLNVSVTHLIAGEVGSKKYLVAANLKKPILLPSWIKTLWEKSQ  
EKKITRYTDINMEDFKCPIFLGCIICVTGLCGLDRKEVQQLTVKHGGQYMGQLMNECTH  
LIVQEPKGQKYEAKRWNVHCVTQWFFDSIEKGFCQDESIYKTEPRPEAKTMPNSSSTPT  
SQINTIDSRTLSDVSNISNINASCVSEICNSLNSKLEPTLENLENLDVSAFQAPEDLLD  
GCRIYLCGFSGRKLDKLRLINSGGGVRFNQLNEDVTHVIVGDYDELKQFWNKSAHRPH  
VVGAKWLLECFSGKGYMLSEEPYIHANYQPVEIPVSHKPESKAALLKKKNSSFSKKDFAPS  
EKHEQADELLSQYENGSSSTVVEAKTSEARPFNDSTHAELNDSTHISLQEEQSSVSHC  
VPDVSTITEEGLFSQKSFLVLGFSNENESNIANIKENAGKIMSLLSRTVADYAVVPLLG  
CEVEATVGEVVTNTWLVTIDYQTLFDPKSNPLFTPVVMTGMTPLEDCVISFSQCAGAE

KESLTFLANLLGASVQEYFVRKSNACKGMFASTHLILKERGGSKYEAAKKWNLPVTTIAW  
LLETARTGKRADESHFLIENSTKEERSLETEITNGINLNSDTAEHPGTRLQTHRKTVVTP  
LDMNRFQSKAFRAVVSQHARQVAASPAVGQPLQKEPSLHLDTPSKFLSKDKLKFPSFDVK  
DALAALETGPRPSQKQKRPSTPLSEVIVKNLQLALANSSRNAVALSASPQLKEAQSEKEE  
APKPLHKVVCVSKKLSKKQSELNGIAASLGADYRWSFDETVTHFIYQGRPNDTNREYKS  
VKERGVHIVSEHWLLDCAQECKHLPESLYPHTYNPKMSLDISAVQDGRLCNSRLLSAVSS  
TKDDEPDPLILEENDVDNMATNNKESAPSNNGSGKNDKSGVLTQTLEMRENFKQLQEIMS  
ATSIVKPQGQRTSLSRGCNSASSTPDSTRSARSGRSRVLEALRQSRQTVPDVNTPEPSQN  
EQI I WDDPTAREERARLASNLQWPSCPTQYSELQVDIQNLEDSPFQKPLHDSEIAKQAVC  
DPGNIRVTEAPKHPISEELETPIKDSHLIPTQAPSIAFPLANPPVAPHPREKIIITIEET  
HEELKKQYIFQLSSLNPQERIDYCHLIEKLGGLVIEKQCFDPTCTHIVVGHPLRNEKYLA  
SVAAGKWVLRHSYLEACRTAGHFVQEEDYEWGSSSILDVLTGINVQRRRLAALAMRWKKA  
IQQRQESGIVEGAFSGWKVILHVDQSREAGFKRLQSGGAKVLPGHVPLFKEATHLFS  
LNKLPDDSGVNIAEAAAQNVYCLRTEYIADYLMQESPPHVENYCLPEAISFIQNNKELG  
TGLSQKRKAPTEKNKIKRPRVH

>sp|Q15569|TESK1\_HUMAN Dual specificity testis-specific protein kinase 1 OS=Homo sapiens  
GN=TESK1 PE=1 SV=2

MAGERPPLRGPGPGPEVPGEGPPGPGGTGGGPGRGRPSSYRALRSVSSLARVDDFHCA  
EKIGAGFFSEVYKVRHRQSGQVMVLKMNKLPSNRGNTLREVQLMNRLRHPNILRFMGVCV  
HQQQLHALTEYMNGGTLEQLLSSPEPLSWPVRLHLALDIARGLRYLHSGKGVFHRDLTSKN  
CLVRREDRGFTAVVGDFGLAEKIPVYREGARKEPLAVVGSPYWMAPEVLRGELYDEKADV  
FAFGIVLCELIARVPADPDYLPRTEDFGLDVPFRTL VGDDCPLPFLLLAIHCCNLEPST  
RAPFTEITQHLEWILEQLPEPAPLTRTALTHNQGSVARGGPSATLPRDPRLSRSRSDLF  
LPPSPESPNNWGDNLTRVNPFSLRDLRGGKIKLLDTPSKPVLPVPPSPFPSTQLPLVT  
TPETLVQPGTPARRCRSLPSSPELPRRMETALPGPGPPAVGPSAEKMECEGSSPEPEPP  
GPAPQLPLAVATDNFISTCSSASQPWSPRSGPVLNNNPPAVVVNSPQGWAGEPWNRAQHS  
LPRAAALERTEPSPPPSAPREPDEGLPCPGCCLGPFSGFGLSMCPRPTPAVARYRNLNCE  
AGSLLCHRGHHAKPPTPSLQLPGARS

>sp|Q8IYF3|TEX11\_HUMAN Testis-expressed sequence 11 protein OS=Homo sapiens GN=TEX11 PE=1  
SV=3

MISAHCNLRLLCSSDSSASASQVAGTTEVVENLVTNDNSPNIPEAIDRLFSDIANINRES  
MAEITDIQIEEAMVNLWNWALTIGGGWLVNEEQKIRLHYVACKLLSMCEASFASEQSIQR  
LIMNMRIKGWLDAGNFLIADCFQAASLEQLYVKLIQRSSPEADLTMEKITVESDH  
FRVLSYQASAVAQGDQFQRASMCVLQCKDMLMRLPQMTSSLHHL CYNFGVETQKNNKYEE  
SSFWLSQSYDIGMDKKSTGPEMLAKVLRLLATNYLDWDDTKYYDKALNAVNLANKHELS  
SPGLFLKMKILLKGETSNEELLEAVMEILHLDMPDFCLNIAKLLMDHERESVGFHFLT  
IHERFKSSENIGKVLILHTDMLLRKEELLAKEKIEEIFLAHQGTGRQLTAESMNWLHNIL  
WRQAASSFEVQNYTDALQWYYYSRIFYSTDEMDLDFTKLQRNMACCYNLQQLDKAKEAV  
AEAERHDPNRNFTQFYIFKIAVIEGNSERALQAIITLENILTDEESEDNDLVAERGSPTM  
LLSLAAQFALENGQIVAEKALEYLAQHSDEQEVLTAVKCLLRFLLPKIAEMPESEDKK  
KEMDRLLTCLNRAVFKLSQPFGEALSLERANEAQWFRKTAWNLA VQCDKDPVMMREFF  
ILSYKMSQFCPSDQVILIARKTCLLMAVAVDLEQGRKASTAFEQTMFLSRALEEIQTCND  
IHNFLKQTGTFSNDSCEKLLLLYEFVRAKLNPLLESFLESVWELPHLETKTFTETIAII  
AMEKPAHYPLIALKALKKALLLYKKEEPIDISQYSKCMHNLVNLVSPDGASNVLCPL

VWGYFEDALSHISRTKDYPEMELWLMVKSWNTGVLMFSSRSKYASAEKWCGLALRFLNHL  
TSFKESYETQMNMLYSQLEALSNNKGPVFHEHGYWSKSD

>sp|Q9BXT5|TEX15\_HUMAN Testis-expressed sequence 15 protein OS=Homo sapiens GN=TEX15 PE=2  
SV=2

MPSDAKDSVNGDLLLNWTSLSKNILSGLNASFPLHNNTGSSTVTTSSKSIKDPRLMRREESM  
GEQSSTAGLNEVLQFEKSSDNVNSEIKSTPSNSASSSEVVPGDCAVLNGLDTPCFKTSV  
NDSQSWAHNMGSSEDYDCIPPKNVTMAGQCKDQGNFSFPISVSNVSEVENQNHSEEKAQR  
AQQESGNAYTKEYSSHIFQDSQSSDLKTIYQTCQTSTVFPLKKKVSIDEYLQNTGKMKN  
FADLEDSSKHEEKQTSWKEIDNDFNETKISPIDNYIVLHQEYKESESHNSFGKSCDKIL  
ITQELEITKSSTSTIKDKDELHLALEWQITPSFESLSQKHPQHSVEYEGNIHTSLAIAQ  
KLMELKLGKINQNYASII TEAFPKPKDIPQAKEMFIDTVISSYNIETAHDSSNCSITREH  
ICVHRKNENEPVSLENIQRDYKETAYVEDRGQDHNLFCSQLSNDIWLNVNFKKQTDREN  
QNEAKENSASCVENNIENIYGDKKQDSHTNENFSNIDEKEDKNYHNIEILSSEEFSTKFN  
LICREDNAVSAATALLESEEDTISAVKQKDTENTGRSVEHLASTTFPKTASSSVCVASNA  
AIQIASATMPALSLNDDHQIYQFKETCSSESPDFGLLVKHRVSDCEIDTDKNKSQESFH  
QSINENLVLQSIELESEIEIELEDCCDAFIFQQDTHSHENMLCEEFTSYKALKSRISWE  
GLLALDNGEMEVLSTTGRENDSQHYSKESNYFYSSTQNNETELTSPILLPDLQIKITNI  
FRPGFSPTADSLALKDSFCTHVTEATKPEINKEDGEILGFDIYSQPFGENADYPCEDKVD  
NIRQESGPVSNSEISLSFDLSRNTDVNHTSENQNSESLFTEPSNVTTIDGSRCFFTKSK  
TDYNDTKNKKEVESRISKRLHISSRDQNI PHKDLRRHKIYGRKRRLTSQDSSECFSSLS  
QGRIKTFQSSEKHIKSVLNILSDEASLCKSKCLSRKLDKAVVHLKKAHRRVHTSLQLITK  
VGEERKGPLPKSYAII CNFWESCDLQGYSSVSQRKYSTKHFSKRKYDKRRKKRAPKA  
DISKSLTHVSKHKS YKTSGEKKCLSRKSMASVSKSHPTTSHMGFCNQEHPESQLPVSS  
TSQSTSQSVYYNSSVSNPSLSEEHQPFSGKTAYLFSPDHSDEKLEKENQIDTAFLSSTS  
KYEKLEKHSANHNVKDATKENS CDANEVINESNSVSLSCIKENINSSTGND CDATCIGHT  
KAKTDVLI SVLDSNVKHFLNDLYQQNLILSDCKRNLEVKWTDPIERPKNII TGNFIMG  
PLNLTLIASKKYSIPQLSAAAVTDSEGESSKSYLDKQRILTVDSFAASSTVPHCEQSCRE  
KELLKTEQCSSGNCLHTDGNENTV TENYELDVASGTEEDKSYGENIVELSSSDSLLLKD  
NVKGSSSETCIVKKD TEDRITWKVKAEKAKDSVYKRSMTEGSTVNTEYKNQKNQISEES  
CLNEKIIITNLIDSHLSTKNTTTESVPLKNTVSNPLNKRKKGEIKVSKDSQSDTLHSE  
IAYISKPGILGVNHTPILPAHSETCKVPTLLKKPASVVSDFKEKHCSANHTALIANLSQI  
LQRADEASSLQILQEETKVCLNILPLFVEAFERKQECQVEQILISRELLVDQNLWNNCKH  
TLKPCAVDTLVELQMMETIQFIENKKRHLEGEPTLRSLLWYDETLAELLGKPRGFQQQ  
SNFYPGFGQRLKYNFCELQTYHDQLVELLEETKREKNSYYVFLKYKRQVNECEAIMEHC  
SDCFDFSLSVPTCGVNF GDSLEDEILRKSTLKLINVC GDSPKVHSYPGKQDHLWIIIE  
MISSKVNFIKNNEAVRVKISLYGLEHIFFDAAKNLVWKERTQSFSKKYSQKKDEERLLRV  
NKCAFSLKQKIYDTLSKDLNNEPISPIGLEEDTIIASRKSDHPINEATISIENSKFNSNL  
LAHPDICCISEILDQAEFADLKKLQDLTLRCTDHLEILKKYFQMLQDNNMDNIFITEENV  
LDVVINHSHEAII LKPEATEMYIEIVMVSETHFLKNSIAKKLDKQRF RGMWFDLSLLP  
ELVQCQEKMASFSFLKDNSTDVCLWKVIETAVSELKKDLDIICKYNEAVNCSYAIHLLSR  
ELQELSEIKKLLKKSKYFISTYIDFVPYIASINYGSTVTELEYNNQFSTLLKNVMSAPR  
KDLGKMAHIRKVMKTI EHKMICTKNAELTISFFLCQMLYNRRKILQLKRKEKMNIHIVK  
PGENNNKFSISTMLPPVSECINKNISNSSKKRPSTVDKCEDSQEQQD TTVSSCKKLKVD  
MKDVTKINREKATFKHPRTTGSHPKSENKIVPSSCDSLKRNLTPKKVEMQRSLPGSLLP



LENPKDTCASKSESKIDLTVSSDHFSGQQENLSMKKRNVNFSAAETKSDKKDCAFAIC  
DQKSVHGTFSPDHGTLLQKFLKNSPDPTQKSCLSDINPETDVSLVPDASVLSKPIFCFVK  
DVHPDLEMNDTVFELQDNDIVNSSIKNSSCMTSPEPICIQNKIPTLQINKLQPTETESD  
KYMKDTLNPNTVHTFGASGHITLNVNQAEYSLSEQQNDKNSKVLQMNAATYWNELPQSA  
CNPTYNSSEHLFGTSYPYSAWCVYQYSNSNGNAITQTYQGITSYEVQSPSPGLLTTVAST  
AQGTHSNLLYSQYFTYFAGEPQANGFVPVNGYFQSQIPASNFRQPIFSQYASHQPLPQAT  
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>sp|Q8IWB9|TEX2\_HUMAN Testis-expressed sequence 2 protein OS=Homo sapiens GN=TEX2 PE=1  
SV=2

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DDQSI VTGLEAKEDLYLEPQVGHDPAGPAASPVLADGLSVSQAPAILPVSKNTVKLLESP  
VPAAQVLSTVPLAVSPGSSSSGLASSPSVSSLSEQKTSSSSPLSSPSKSPILSSASTS  
TLSSAKPFMSLVKSLSTEVEPKESPHPARHRHLMKTLVKSLSTDTSRQESDTVSYKPPDS  
KLNHLHFKQFTQPRNTGGDSKTAPSSPLTSPSDTRSFFKVPMEAKIEDTKRRLSEVIYE  
PFQLLSKIIGEESGSHRPKALSSSASELSNLSSLNGHLESNNNYSIKEEECDSEGDGYGS  
DSNIPRSDHPKSTGEPTREIELKSSQGSSLKDLGLKTSSLVLEKCSLSALVSKEDDEEFCE  
LYTEDFDLETEGESKVDKLSDIPLKPEVLAEDGVVLDSEDEVDSAVQHPELPVKTLGFFI  
MCVYVYLILPLPHYVSGFLGLGIGFMTAVCVIWFFTPPSAHKYHKLHKNLRHWNTRSLD  
IKEPEILKGWMNEIYNYDPETYHATLTHSVFVRLEGGTLRLSKPNKNISRRASYNEPKPE  
VTYISQKIYDLSDSKIYLVPKTLARKRIWNKKYPICIELGQQDDFMSKAQTDKETSEEKP  
PAEGSEDPKKPPRPQEGTRSSQRDQILYLFGRGTGREKEEWFRFILASKLKSEIKKSSGV  
SGGKPGLLPAHSRHNSPSGHLTHSRSSSKGSVEEIMSQPKQKELAGSVRQKMLLDYSVYM  
GRCVPQESRSPQRSPLQSAESSPTAGKKLPEVPPSEEEEQEAWVNALLGRIFWDFLGEKY  
WSDLVSKKI QMKLSKIKLPYFMNELTLTELDMGVAVPKILQAFKPYVDHQGLWIDLEMSY  
NGSFLMTLETKMNLTKLGEPLVEALKVGEIGKEGCRPRAFCLADSDEESSSAGSSEEDD  
APEPSGGDKQLLPGAEGYVGGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIEEVSNTP  
LLLTVEVQECRGT LAVNIPPPPTDRVWYGFRKPPHVELKARPKLGEREVTLVHVTDWIEK  
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>sp|Q5VZQ5|TEX36\_HUMAN Testis-expressed sequence 36 protein OS=Homo sapiens GN=TEX36 PE=2  
SV=1

MTKGRRFNPPSDKDGRWFPHIGLTQKTPESITSATSKEPQSPHLPRQAEGLPPIYKVRE  
KQAVNNQFPFSVHDNRHSLNSGCYLD SGLGRKKISPDKRQHVS RNFN LWACDYVPSCLD  
GFSNNQISYVYKEAMVSSFRFRPRCYKEI WNAFTFLPERSYTEVLKKKPKVRFTVDKKV  
VSSLES

>sp|Q8IYQ7|THNS1\_HUMAN Threonine synthase-like 1 OS=Homo sapiens GN=THNSL1 PE=1 SV=2

MLHFN RCHHLKKITQKCFSSIHVKTDKHAQRFLSRTFALAE LRKSWYTHSLVGDKNIIL  
MGPPGAGKTTVGRIIGQKLGCCVIDVDDDI EKTWNMSVSEKLQDVGNEQFLEEKGAVL  
NFSASGSVISLTGSNPMHDASMWHLKNGIIVYLDVPLLDLICRLKLMKTD RIVGQNSGT  
SMKDLLKFRRQYYKKWYDARVFCESGASPEEVADKVLNAIKRYQDV DSETFISTRHVWPE  
DCEQKVS AKFFSEAVIEGLASDGGLFVPAKEFPKLSCGEWKS LVGATYVERAQILLERCI  
HPADIPAARLGEMIETAYGENFACSKIAPVRHLSGNQF ILELFHGPTGSFKDLSLQLMPH  
IFAHCI PPSCNYMILVATSGDTGSAVLNGFSRLNKNDKQRIAVVAFFPENGVSDFQKAQI  
IGSQRENGWAVGVESDFDFCQTAIKRIFNDSDFTGFLTVEYGTILSSANSINWGRLLPQV  
VYHASAYLDLVSQGFI SFGSPVDVCIPTGNFGNILA AVYAKMMGIPIRKFICASNQNHVL

TDFIKTGHYDLRERKLAQTFSPSIDILKSSNLERHLHLMANKDGQLMTELFNRLESQHMF  
QIEKALVEKLQQDFVADWCSEGECLAAINSTYNTSGYILDPHATAVAKVADRVQDKTCPV  
IISSTAHYSKFAPAIMQALKIKEINETSSSQLYLLGSYNALPPLHEALLERTKQKEKMEY  
QVCAADMNVLKSHVEQLVQNQFI

>sp|Q96J01|THOC3\_HUMAN THO complex subunit 3 OS=Homo sapiens GN=THOC3 PE=1 SV=1

MAVPAAAMGPSALGQSGPGSMAPWCSVSSGPSRYVLGMQELFRGHSKTREFLAHSKAVHS  
VAWSCDGRRLASGSFDTASVFLLEKDRLVKENNYRGHGSVDQLCWHPSNPDLFVTASG  
DKTIRIWDVRTTKCIATVNTKGENINICWSPDGQTIAGVGNKDDVVTFIDAKTHRSKAEQ  
FKFEVNEISWNNNDNNMFFLTNGNGCINILSYPELKPVQSINAHPNCICIKFDPMGKYFA  
TGSADALVSLWDVDELVCVRCFSRLDWPVRTLSFSHDGKMLASASEDHFIDIAEVETGDK  
LWEVQCESPTFTVAWHPKRPLLAFCDDKDKGYDSSREAGTVKLFGLPNDS

>sp|Q86V81|THOC4\_HUMAN THO complex subunit 4 OS=Homo sapiens GN=ALYREF PE=1 SV=3

MADKMDMSLDDI IKLNRSQRGGRGGGRGRGRAGSQGGRGGAQAAARVNRRGGPIRNRPA  
IARGAAGGGRRNPAPYSRPKQLPDKWQHDLFDSGFGGAGVETGGKLLVSNLDFGVSDA  
DIQELFAEFGTLKKAHVHYDRSGRSLGTADVHFERKADALKAMQYNGVPLDGRPMNIQL  
VTSQIDAQRRPAQSVNRGGMTRNRGAGGFGGGGTRRGTRGGARGRGRGAGRNSKQQLSA  
EELDAQLDAYNARMDTS

>sp|Q6I9Y2|THOC7\_HUMAN THO complex subunit 7 homolog OS=Homo sapiens GN=THOC7 PE=1 SV=3

MGAVTDDEVIRKRLIDGDGAGDDRRINLLVKSFIKWCNSGSQEEGYSQYQRMSTLSQC  
EFSMGKTLLVYDMNLREMYENYKIEKIECSIAGAHEKIAECKKQILQAKRIRKNRQEYD  
ALAKVIQHHPDRHETLKEALGKELEHLSHIKESVEDKLELRRKQFHVLLSTIHELQQT  
LENDEKLSEVEEAQEASMETDPKP

>sp|Q9NS62|THSD1\_HUMAN Thrombospondin type-1 domain-containing protein 1 OS=Homo sapiens  
GN=THSD1 PE=2 SV=1

MKPMKDFSNLLLVLCDYVLGEAEYLLREPGHVALSNDTVYVDFQYFDGANGTLRNVS  
VLLLEANTNQTVTTKYLLTNQSQGTCLKFECFYFKEAGDYWFTMTPEATDNSTPFPWWEKS  
AFLKVEWPVFHVDLNRSAKAAEGTFQVGLFTSQPLCPFPVDKPNIVVDVIFTNSLPEARR  
NSRQPLEIRTSKRTELAQQWVEFGCAPLGPEAYVTVLKLLGRDSVITSTGPIDLAQKF  
GYKLMVPELTCESGVEVTVLPPPCTFVQGVTVFKEAPRYPGKRTIHLAENSLPLGERR  
TIFNCTLFDMGKNKYCFDFGISSRSHFSAKEECMLIQRNTETWGLWQPWSQCSATCGDGV  
RERRRVCLTSFPSSPVCPGMSLEASLCSLEECAAFQPSSPSPLQPQGPVKSNIVTVTGI  
SLCLFII IATVLI TLWRRFGRPAKCSTPARHNSIHSPSFRKNSDEENICELSEQRGSFSD  
GGDGPTGSPGDTGIPLTYRRSGVPPEDDASGESFQSNAQKIIPPLFSYRLAQQQLKEM  
KKKGLTETTKVYHVSQSPLTDTAIDAAPSAPLDLESPEEAAAANKFRIKSPFPEQPAVSAG  
ERPPSRDLNVTQASCAISPSQTLIRKSQARHVGSRGGPSERSHARNAHFRRTASFHEAR  
QARPFRRSMSTLTPRQAPAYSSRTRTCEQAEDRFRPQSRGAHLFPEKLEHFQEASGTRG  
PLNPLPKSYTLGQPLRKPDLDHQAQGLVAGIERTEPHRARRGPS SHKSVSRKQSSPISP  
KDNYQRVSSLSPSQCRKDKCSFPTHPEFAFYDNTSFGLTEAEQRMLDLPGYFGSNEEDE  
TTSTLSVEKLVI

>sp|Q6B0B8|TIGD3\_HUMAN Tigger transposable element-derived protein 3 OS=Homo sapiens  
GN=TIGD3 PE=2 SV=1

MELSSKKLHALSLAEKIQVLELLDESKMSQSEVARRFQVSQPQISRICKNKEKLLADWC  
SGTANRERKRKRESKYSGIDEALLCWYHIARAKAWDVTGPMLLHKAKELADIMGQDFVPS  
IGWLVRWKRRNNVGFGARHVLAPSFPPEPPPPGLTSQAQLPLSLKDFSPEDVFGCAELPL

LYRAVPGSFGACDQVQVLLCANSRGTEKRRVLLGGLQAAPRCFFGIRSEALPASYPDLG  
IPWLEWLAQFDRDMGQQGRQVALLLAARVVEELAGLPGLYHVKLLPLAASSTTPPLPSSV  
VRAFKAHYRRLGLKLAIIQSERDGTSLAEAGAGITVLDALHVASAAWAKVPPQLIFSSF  
IQEGLAPGKTPPSSHKTSEMPVPVPGLSLEEFSTRFVDLEGEPRSGVCKEEIGTEDEKGD  
REGAFEP LPTKADALRALGTLRRWFECNSTSPELFEKFYDCEEEVERLCCL

>sp|Q8IY51|TIGD4\_HUMAN Tigger transposable element-derived protein 4 OS=Homo sapiens  
GN=TIGD4 PE=2 SV=2

MAEASVDASTLPVTVKKKKSLSIEEKIDIINAVESGKKKAEIAAEYGIKKNSLSSIMKNK  
DKVLEAFESLRFDPKRKRLRTAFYTDLEEALMRWYRIAQCLNVPVNGPMLRLKANDFAQK  
LGHNDFKCSNGWLDRFKSRYGLVFRAQPVEATGVPVDPSTVWYQNVLPYYLNDYHPKNVF  
NIKETGLLYRMLPTNTFAFKGETCSVGKLCCKDRITLVVGTNMDGSEKLPLLVIKKRTPH  
CFKGLKSLPVCYEANMAWMTSDVFEQWMRKLDDEEFAQQRRVIVFESFPAHPEVKNLK  
SIELAFFPSCLSKCIAMKQGVIKSLKIKYRHCLIKKFLSSVEGSKEFTFSLLDAVDTLH  
LCWRAVTPETIVKSYEEAGFSKQKGESDITNAEKDTGLDLVADALGAGVEFPEGLSIEEY  
AALDDDLETCEAAPNGDSICTKESKSDETGFYTSDEEDDDGSPGTELPLPSKSEAITALD  
TLKKFLRSQDMNDGLQNSLADLENFINSLSPK

>sp|Q86X45|TILB\_HUMAN Protein tilB homolog OS=Homo sapiens GN=LRR6 PE=1 SV=3

MGWITEDLIRRNAEHNDCVIFSLEELSLHQEIERLEHIDKWRDLKILYLQNNLIGKIE  
NVSKLKKLEYLNALNIEKIEENLEGCEELAKLDLTVNFIGELSSIKNLQHNHLKELFL  
MGNPCASFHDHYREFVATLPQLKWLDGKEIEPSEKIKALQDYSVIEPQIREQEKDHCLKR  
AKLKEEAQRKHQEEEDKNEDKRSNAGFDGRWYTDINATLSSLESKDHLQAPDTEHNTKKL  
DNSEDDLEFWNKPLFTPESRLETLRHMEKQRKKQEKLEKSKKKVKKPPRTLITDGKALN  
VNEPKIDFSLKDNKQIILDLAVRYMDTSLIDVDVQPTYVVRVMIKGPQFQLVLP AEVKP  
DSSSAKRSQTTGHLVICMPKVGEVITGGQRAFKSMKTTSDRSREQTNTRSKHMEKLEVDP  
SKHSFPDVTNIVQEKKHTPRRRPEPKIIPSEEDPTFEDNPEVPPLI

>sp|P62072|TIM10\_HUMAN Mitochondrial import inner membrane translocase subunit Tim10  
OS=Homo sapiens GN=TIMM10 PE=1 SV=1

MDPLRAQQLA AELEVEMMADMYNRMTSACHRKCVPHYKEAELSKGESVCLDRCVSKYLD  
IHERMGKKLTELSMQDEELMKRVQSSGPA

>sp|Q96H15|TIMD4\_HUMAN T-cell immunoglobulin and mucin domain-containing protein 4  
OS=Homo sapiens GN=TIMD4 PE=1 SV=2

MSKEPLILWLMIEFWWLYLTPVTSETVTVTEVLGHRVTLPCLYSSWSHNSNSMCWGKDQCP  
YSGCKEALIRTDGMRVTSRKS AKYRLQGTIPRGDVSLTILNPSESDSGVYCCRIEVPWF  
NDVKINVRNLQRASTTTHTTATTTTTRTTTTSPTTTRQMTTTPAALPTTVVTTPLDTTG  
TPLQMTTIAVFTTANTCLSLTPSTLPEEATGLLTPEPSKEGPILTAESETVLPDSWSSV  
ESTSADTVLLTSKESKVWDL PSTSHVSMWKTSDSVSSPQPGASDTAVPEQNKT TKTGQMD  
GIPMSMKNEMPISQLLMIIAPSLGFVLFALFVAFLLRGKLMETYSQKHTRLDYIGDSKN  
VLNDVQHGREDEDGLFTL

>sp|Q9UNS1|TIM\_HUMAN Protein timeless homolog OS=Homo sapiens GN=TIMELESS PE=1 SV=2

MDLHMMNCELLATCSALGYLEGDTYHKEPCLESVKDLIRYL RHEDETRDVRQQLGAAQI  
LQSDLLPILTQHHQDKPLF DAVIRLMVNLTQPALLCFGNLPKEPSFRHHFLQVLTYLQAY  
KEAFASEKAFGV LSETLYELLQLGWEERQEEDNLLIERILLVLRNHLVHPADLDQEKKID  
DDASAHQQLLWAIHLSGLDDLLLFLASSSAEEQWSLHVLEIVSLMFRDQNP EQLAGVGQG  
RLAQERSADFAEVL RQREMAEKKTRALQ RGNRHSRFGGSYIVQGLKSIGERDLIFHKG

LHNL RNYSSDLGKQPKKVPKRRQAARELSIQRRSALNVRLFLRDFCSEFLENCYNRLMGS  
VKDHLLREKAQQHDETYMMWALAFFMAFNRAASFRPGLVSETLSVRTFHFIEQNL TNYE  
MMLTDRKEAASWARRMHLALKAYQELLATVNEMDISPDEAVRESSRIKNNIFYVMEYRE  
LFLALFRKFDERCQPRSFLRDLVETTHLFLKMLERFCRSRGNLVVQNKQKKRRKKKKKVL  
DQAI VSGNVPSSPEEVEAVWPALAEQLQCCAQNSELSMDSVVPFDAASEVPVEEQRAEAM  
VRIQDCLLAGQAPQALTLLRSAREVWPEGDVFGSQDISPEEEIQLLKQILSAPLPRQQGP  
EERGAE EEEEEEEEEELQVVQVSEKEFNFLDYLKRFACSTVVRAYVLLLSYQQNSAH  
TNHCIVKMLHRLAHLKMEALLFQLSVFCLFNRLSDPAAGAYKELVTFAKYILGKFFAL  
AAVNQKAFVELLFWKNTAVVREMTGYGSLDDRSSRRAPTWSPEEEAHLRELYLANKDV  
EGQDVVEAILAHLNTVPTRKQIIHHLVQMGLADSVKDFQRKGTHIVLWTGDQELELQRL  
FEFRDSDDLGHIMKNITAKRSRARIVDKLLALGLVAERRELYKKRQKKLASSILPNGA  
ESLKDFCQEDLEEEENLPEEDSEEEEGGSEAEQVQGSVLVSNENLGQSLHQEGFSIPLL  
WLQNCLIRAADDREEDGCSQAVPLVPLTEENEEAMENEQFQQLLRKLGV RPPASGGQETFW  
RIPAKLSPTQLRRAAASLSQPEEQKLQPELQPKVPGEQGSDEEHCKEHRAQALRALLLA  
HKKKAGLASPEEEDAVGKEPLKAAPKKRQLLDSDEEQEEDGRNRAPELGAPGIQKKKRY  
QIEDDEDD

>sp|P47974|TISD\_HUMAN mRNA decay activator protein ZFP36L2 OS=Homo sapiens GN=ZFP36L2  
PE=1 SV=3

MSTTLLSAFYDVF LCKTEKSLANLNLNNMLDKKAVGTPVAAAPSSGFAPGFLRRHSASN  
LHALAH PAPS PGSCSPKFGAANGSSCGSAAAGGPTS YGTLKEPSGGGGTALLNKENKFR  
DRSFSENGDRSQHLLHLQQQQKGGGSQINSTRYKTEL CRPFEE SGTCKYGEKQFAHGF  
HEL RSLTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNADERRPAPSGGASGDLRAFGTRD  
ALHLGFPREPRPKLHHSLSFSGFPPSGHHQPPGGLESPLLLDSPTSRTPPPPS CSSASSCS  
SSASSCSSASAASTPSGAPTCCASAAAAAALLYGTGAEDLLAPGAPCAACSSASCAN  
NAFAFGPELSSLITPLAIQTHNFAAVAAAAYRSQQQQQQGLAPPAQPPAPPSATLPAG  
AAAPSPFPFSQLPRRLSDSPVFDAPPSPDLSDRDSYLSGSLSSGSLSGSESPSLDPG  
RRLPIFSRLSISDD

>sp|P20366|TKN1\_HUMAN Protachykinin-1 OS=Homo sapiens GN=TAC1 PE=1 SV=1

MKILVALAVFFLVSTQLFAEEIGANDDLNYWSDWYDSQIKEELPEPFEHLLQRIARRPK  
PQQFFGLMGKR DADSSIEKQVALLKALYGHGQISHKRHKTD SFVGLMGKRALNSVAYERS  
AMQNYERRR

>sp|Q9H808|TLE6\_HUMAN Transducin-like enhancer protein 6 OS=Homo sapiens GN=TLE6 PE=1  
SV=2

MTSRDQPRPKGPPKSTSPCPGISNSESPTLNYQGILNRLKQFPRFSPHFAAELESIIYS  
LHKIQQDVAEHHKQIGNVLQIVESCSQLQGFQSEEVSPAEPASPGTPQQVKDKTLQESSF  
EDIMATRSSDWLRRPLGEDNQPETQLFWDKEPFWHDTLTEQLWRIFAGVHDEKAKPRDR  
QQAPGLGQESKAPGSCDPGTDCPEDASTPRPEASSSPPEGSQDRNTSWG VVQEPPGRA  
SRFLQSI SWDPEDFEDAWKRPDALPGQSKRLAVPCKLEKMRI LAHGELVLATAISSFTRH  
VFTCGRRGIKVWSLTGQVAEDRFPESHLPIQTPGAFLRTCLLSSNSRSLLTGGYNLASVS  
VWDLAAPSLHVKEQLPCAGLNCQALDANLDANLAFASFTSGVVRIWDLRDQSVVRDLKGY  
PDGVKSIVVKGYNIWTGGPDACLRCWDQRTIMKPLEYQFKSQIMSLSHSPQEDWVLLGMA  
NGQQWLQSTSGSRHVMVGQKDSVILSVKFSPPGQWWASVGMDDFLGVYSMPAGTKVFEVP  
EMSPVTCCDVSSNNRLVVTGSGEHASVYQITY

>sp|O60602|TLR5\_HUMAN Toll-like receptor 5 OS=Homo sapiens GN=TLR5 PE=1 SV=4

MGDHLDLLLGVVLMAGPVFGIPSCSFDGRIAFYRFCNLTQVPQVLNTTERLLLSFNYIRT  
VTASSFPFLEQLQLELGSQYTPLTIDKEAFRNLPNLRILDLGSSKIYFLHPDAFQGLFH  
LFELRLYFCGLSDAVLKDGYFRNLKALTRLDLSKNQIRSLYLHPSFGKLSLKSIDFSSN  
QIFLVCEHELEPLQGKTLSTFFSLAANSLSYRSVSDWGKCMNPFNMVLEILDVSGNGWTV  
DITGNFSNAISKSQAFSLILAHHIMGAGFGFHNKDPDQNTFAGLARSSVRHLDLSHGTV  
FSLNSRVFETLKDVLNLAYNKINKIADEAFYGLDNLQVLNLSYNLLGELYSSNFYGLP  
KVAYIDLQKNHIAIIQDQTFKLEKLQTLDRDNALTTIHFIPSIDIFLSGNKLVTLPK  
INLTANLIHLSENRLENLDILYFLLRVPHLQILILNQNRFSSCSGDQTPSENPSLEQLFL  
GENMLQLAWETELCWDVFEGLSHLQVLYLNHNYLNSLPPGVFSLHTALRGLSLNSNRLTV  
LSHNDLPANLEILDISRNLQLLAPNPVSVLSVLDITHNKFICECELSSTFINWLNHTNVT  
IAGPPADIYCVYPSFSFSGVSLFSLSTEGCDEEEVLKSLKFSLFIVCTVTLTLFLMTILTV  
TKFRGFCFICYKTAQRLVFKDHPQGTEPDYKYDAYLCFSSKDFTWVQNALLKHLDTQYS  
DQNRFNLCFEERDFVPGENRIANIQDAIWNSRKIVCLVSRHFLRDGWCLEAFSYAQGRCL  
SDLNSALIMVVVGSLSQYQLMKHQSIRGFVQKQYLRWPEDFQDVGWFLHKLSQQILKKE  
KEKKDNNIPLQTVATIS

>sp|Q9NYK1|TLR7\_HUMAN Toll-like receptor 7 OS=Homo sapiens GN=TLR7 PE=2 SV=1

MVFPMTLTKRQILILFNIILISKLLGARWPKTLPDVTLDVPKNHIVIDCTDKHLTEIP  
GGIPTNTNTLTINHIPDISPASFHRLDHLVEIDFRNCNCPILGSKNNMCIKRLQIKP  
RSFSGLTYLKSLYLDGNQLEIPQGLPPSLQLLSLEANNIFSIRKENLTELANIEILYL  
QNCYYRNPCYVSYSIEKDAFLNLTCLKVLSLKDNNTAVPTVLPSTLTLYLYNNMIAKI  
QEDDFNNLNQLQILDLSGNCPRCYNAPFPCAPCKNNSPLQIPVNAFDALTELKVLRLHSN  
SLQHVPWRWFKNINKLQELDLSQNFLAKEIGDAKFLHFLPSLIQLDLSFNFELQVYRASM  
NLSQAFSSLSKILRIRGYVFKELKSFNLSPLHNLQNLEVLDLGTNFIKIANLSMFKQF  
KRLKVIDLSVNKISPSGDSSEVGFCSNARTSVESYEPQVLEQLHYFRYDKYARSCRFRNK  
EASFMSVNESCYKGQTLDSLKNSIFFVKSSDFQHLSFLKCLNLSGNLISQTLNGSEFQP  
LAELRYLDFSNNRLDLLHSTAFEELHKLEVLDISSNSHYFQSEGITHMLNFTKNLKVQK  
LMMNDNDISSSTRTMESESLRTEFRGNHLDVLWREGDNRYLQLFKNLLKLEELDISKN  
SLSFLPSGVFDGMPNKNLSLAKNGLKSFWSKKLQCLKNLETDLSDHNLTTVPERLSN  
CSRSLKNLILKNNQIRSLTKYFLQDAFQLRYLDLSSNKIQMIQKTSFPENVLNNLKMLLL  
HHNRFLCTCDVWFVWVWNHTEVTIPYLATDVTGPGAHKGQSVISLDLYTCELDLTNL  
ILFSLSISVSFLMVMMTASHLYFWDVWYIYHFCKAKIKGYQRLISPCCYDAFIVYDTK  
DPAVTEWVLAELVAKLEDPREKHFNLCLEERDWLPGQPVLENLSQSIQLSKKTVFVMTDK  
YAKTENFKIAFYLSHQRLMDEKVDVILIFLEKPFQKSKFLQLRKRLCGSSVLEWPTNPQ  
AHPYFWQCLKNALATDNHVAYSQVFKETV

>sp|Q9NR96|TLR9\_HUMAN Toll-like receptor 9 OS=Homo sapiens GN=TLR9 PE=1 SV=2

MGFCRSALHPLSLLVQAIMLAMTLALGTLPALPCELQPHGLVNCNWLFLKSVPHFMAA  
PRGNVTSLSLSSNRHHLHDSDFAHLPRLHNLKWNCPVGLSPMHFPCHMTIEPSTFL  
AVPTLEELNLSYNNIMTVPALPKSLISLSLSHTNLMMLDSASLAGLHALRFLFMDGNCYY  
KNPCRQALEVAPGALLGLGNLTHLSLKYNNTVVPRLPSSLEYLLSYNRIVKLAPEDL  
ANLTALRVLDVGGNCRCDHAPNPCMECPRHFPQLHPDTFSHLRLEGLVLKSSLSWLN  
ASWFRGLGNLRVLDLSENFYKCIKTAKAFQGLTQLRKLNSFNYQKRVSAHLSLAPSF  
GSLVALKELDMHGIFFRSLDETTLRPLARLPMLQTLRLQMNFINQAQLGIFRAFPGLRYV  
DLSDNRISGASELTATMGEADGGEKVLWLPQGLAPAPVDTPSSEDFRPNCSSTLNTLDLS  
RNNLVTVQPEMFAQLSHLQCLRLSHNCISQAVNGSQFLPLTGLQVLDLSHNKLDLYHEHS

FTELPRLEALDLSYNSQPFQMVGHNFSFVAHLRTLRLSLAHNNIHSQVSQQLCSTSL  
RALDFSGNALGHMWAEGDLYLHFFQGLSGLIWLDLSQNLHTLLPQTLRNLPKSLQVLR  
RDNYLAFFKWWSLHFLPKLEVLDLAGNQLKALTNGSLPAGTRLRRLDVSCNSISFVAPGF  
FSKAKELRELNLSANALKTVDHWSFGPLASALQILDVSANPLHCACGAAMDFLLEVQAA  
VPGLPSRVKCGSPGQLQGLSIFAQDLRLCLDEALSWDCFALSLLAVALGLGVPMHLHLCG  
WDLWYCFHLCLAWLPWRGRQSGRDEDALPYDAFVVFDKTQSAVADWVYNELRGQLEECRG  
RWALRLCLEERDWLPKGTFLFENLWASVYGSRKTLFVLAHTDRVSGLLRASFLLAQQRLL  
DRKDVVVLVILSPDGRRSRYVRLRQRLCRQSVLLWPHQPSGQRSFWAQLGMALTRDNHHF  
YNRNFCQGPTAE

>sp|Q8NCL8|TM116\_HUMAN Transmembrane protein 116 OS=Homo sapiens GN=TMEM116 PE=2 SV=1  
MKHTQSGQSTSPVIDYTCRVCMQAFVFSSLIPLLLMTPVFCLGNTSECFQNFSSQSHKCI  
LMHSPPSAMAELPPSANTSVCSSTLYFYGIAIFLGSFVLSLLTIMVLLIRAQTLTKKFVKS  
TGFLGSEQWAVIHIVDQVRVFPVAFCCWGPVILMI IKLTKPQDTKLHMALYVLQALT  
ATSQGLNCGVYGTQHKFHLKQEARADDTQTPLLCSSQKRFYSRGLNSLESTLTFPAS  
TSTIF

>sp|Q6ZMR5|TM11A\_HUMAN Transmembrane protease serine 11A OS=Homo sapiens GN=TMPRSS11A  
PE=1 SV=1

MMYRTVGFGTRSRNLKPWMI AVLIVLSLTVVAVTIGLLVHFLVFDQKKEYYHGSFKILDP  
QINNNFGQSNTYQLKDLRETTENLVSQVDEIFIDSAWKKNYIKNQVVRLTPEEDGVKVDV  
IMVFQFPSTEQRVREKKIQSILNQKIRNLRALPINASSVQVNASSTGELTVQASCGK  
RVVPLNVNRIASGVIAPKAAPWQASLQYDNIHQCGATLISNTWLVTAAHCFQKYKNPHQ  
WTVSFGTKINPPLMKRNVRRFI IHEKYRSAAREYDIAVVQVSSRVTFSDDIRRICLPEAS  
ASFQPNLTVHITGFGALYYGGESQNDLREARVKIISDDVCKQPQVYGNDIKPGMFCAGYM  
EGIYDACRGDSGGPLVTRDLKDTWYLIGIVSWGDNCGQKDKPGVYTQVYYRNWIASKTG  
I

>sp|Q6ZWK6|TM11F\_HUMAN Transmembrane protease serine 11F OS=Homo sapiens GN=TMPRSS11F  
PE=2 SV=2

MMYAPVEFSEAEFSRAEYQRKQFWDVRLALFTLAIVAIIGIAIGIVTHFVVEDDKSFY  
YLASFVNTNIKYKENYGISSREFIERSHQIERMMSRIFRHSSVGGRFIKSHVIKLSPDE  
QGV DILIVLIFRYPSTDSAEQIKKKIEKALYQSLKTKQLSLTINKPSFRLTPIDSKKMRN  
LLNSRCGIRMTSSNMPLPASSSTQRIVQGRETAMEGEWPWQASLQLIGSGHQCGASLISN  
TWLLTAAHCFWKNKDPTQWIATFGATITPPAVKRNVRKIILHENYHRETNENDIALVQLS  
TGVEFSNIVQRVCLPDSSIKLPPKTSVFVTGFGSIVDDGPIQNTLRQARVETISTDVCNR  
KDVIDGLITPGMLCAGFMEGKIDACKGDSGGPLVVDNHDWYIVGIVSWGQSCALPKKPG  
VYTRVTKYRDWIASKTGM

>sp|Q92545|TM131\_HUMAN Transmembrane protein 131 OS=Homo sapiens GN=TMEM131 PE=1 SV=3

MGKRAGGGATGATTA AVSTAGAGLEPAAARS GGPRSAAGLLGALHLVMTLVAAARAE  
KEAFVQSESIIEVLRFDGGLLQTETTLGLSSYQQKSISLYRGNCRPIRFEPMLDFHEQ  
PVGMPKMEKVYLHNPSSEETITLVSISATTSHFHASFFQNRKILPGGNTSFDVVFLARVV  
GNVENTLFINTSNHGVFTYQVFGVGNPNPYRLRPFLGARVPVNSSFSPINIHNPHSEPL  
QVVMYSSGGDLHLELPTGQQGGTRKLWEIPPYETKGVMRASFSSREADNHTAFIRIKTN  
ASDSTEFIILPVEVEVTAPGIYSSTEMLDFGLTRTQDLPKVLNLHLLNSGTDKVPITSV  
RPTPQNDAITVHFKPITLKASESKYTKVASISFDASKAKKPSQFSGKITVKAKEKSYSKL  
EIPYQAEVLDGYLGFDHAATLFHIRDSPADPVERPIYLTNTFSFAILIHDVLLPEEAKTM

FKVHNFSKPVILIPNESGYIFTLLFMPSTSSMHIDNNILLITNASKFHLPRVYTGFLDY  
FVLPPKIEERFIDFGVLSATEASNILFAIINSNPIELAIKSWHIIGDGLSIELVAVERGN  
RTTIISSLPEFEKSSLSQSSVTLASGYFAVFRVKLTAKKLEGIHDGAIQITTDYEILTI  
PVKAVIAVGS LTCFKHVLPSPFGKIVHQSLNIMNSFSQVKVIQQIRSLSEDVRFYYK  
RLRGNKEDLEPGKSKIANIYFDPGLQCGDHCYVGLPFLSKSEPKVQPGVAMQEDMWAD  
WDLHQSLFKGWTGIKENS GHRLSAIFEVNTDLQKNIISKITAELSWPSILSSPRHLKFPL  
TNTNCSSEEEITLENPADVPVYVQFIPLALYSNPVFDKLVSRFNL SKVAKIDLRTLEF  
QVFRNSAHPLQSSTGFMEGLSRHLILNLILKPGEKKS VKVFTPVHNRTVSSLIIVRNNL  
TVMDAVMVQGGTTENLRVAGKLPGPGSSLRFKITEALLKDCTDSLKLREPNTLKRFTK  
VENTGQLQIHETIEISGYSCGYGFKVVNCQEFTLSANASRDIIILFTPDTASRVIRE  
LKFITTS GSEFV FILNASLPYHMLATCAEALPRPNWELALYIIISGIMSALFLLVIGTAY  
LEAQGIWEPFRRRLSFEASNPFDVGRPFDLRRIVGISSEGNLNTLSCDPGHSRGFCGAG  
GSSSRPSAGSHKQCGPSVHPSSHSNRNSADVENVRAKNSSSTSSRTSAQAASSQSANKT  
SPLVLDNNTVTQGH TAGRKS KGAQSQHGSQHHAHSPLEQHPQPPLPPVPQPQEPQPER  
LSPAPLAHP SHPERASSARHSS ESDITSL IEAMDKDFDHHDSPALEVFTEQPPSPLPKS  
KGKGKPLQRKVPPKKQEEKEKKKGKGPQEDELKDSLADDDSSSTTTETSNPDTEPLLKE  
DTEKQKKGKQAMPEKHESEMSQVKQSKKLLNIKKEIPTDVKPSSLELPYTPPLESKQRRN  
LPSKIPLPTAMTSGSKSRNAQKTGTSKLVNRPALAKFLPNSQELGNTSSSEGEKDSP  
PPEWDSVPVHKPGSSTD SLYKLSLQTLNADIFLKQRQTSPTPASPPAAPCPFVARGSY  
SSIVNSSSSSDPKIKQPNGSKHKLTKAASLP GKNGNPTFAAVTAGYDKSPGGNGFAKVSS  
NKTGFSSSLGISHAPVSDGSDSSGLWSPVSNPSPDFTPLNSFSAFGNSFNLTGEVFSK  
LGLSRSCNQASQRSWNEFNSGPSYLWESPATDPSPSWPASSGSPHTATSVLGNTSGLWS  
TTPFSSSIWSSNLSSALPFTTPANTLASIGLMGTENSPAPHAPSTSSPADDLGQTYNPWR  
IWSPTIGRRSSDPWSNSHPHEN

>sp|Q6ZRR5|TM136\_HUMAN Transmembrane protein 136 OS=Homo sapiens GN=TMEM136 PE=2 SV=2  
MALALCLQVLCSLCGWLSLYISFCHLNKHSYEWSCRLVTFTHGVL SIGLSAYIGFIDGP  
WPFTHPGSPNTPLQVHVLCLTLGYFIFDLGWCYVFQSEGALMLAHHTLSILGIIMALVLG  
ESGTEVNAVLF GSEL TNPLLQMRWFLRETGHYHSFTGDVVDFLFVALFTGVRIGVGACLL  
FCEMVSPTPKWFKAGGVAMYAVSWCFMFSIWRFAWRKSIKKYHAWRSRRSEERQLKHNG  
HLKIH

>sp|Q9NPI0|TM138\_HUMAN Transmembrane protein 138 OS=Homo sapiens GN=TMEM138 PE=1 SV=1  
MLQTSNYSLVLSLQFLLSYDLFVNSFSELLQKTPVIQLVLFIIQDIAVLFNIIIIIFLMF  
FNTFVFQAGLVNLLFHKFKGTIILTAVYFALSISLHVWVMNLRWKNSNSFIWTDGLQMLF  
VFQRLAAVLYCYFYKRTAVRLGDPHFYQDSLWLRKEFMQVRR

>sp|Q9NV12|TM140\_HUMAN Transmembrane protein 140 OS=Homo sapiens GN=TMEM140 PE=1 SV=2  
MAGPRPRWRDQLLFMSIIVLVIVVICLMFYALLWEAGNLTDLPNLRIGFYNFCLWNEDTS  
TLQCHQFPELEALGVPRVGLGLARLGVYGSVLTLFAPQPLLLAQCN SDERAWRLAVGFL  
AVSSVLLAGGLGLFLSYVWKWVRLSLPGPGFLALGSAQALLILLIAMAVFPLRAERAES  
KLESC

>sp|Q7Z5S9|TM144\_HUMAN Transmembrane protein 144 OS=Homo sapiens GN=TMEM144 PE=2 SV=1  
MSNNGADLTFGYISCFVAILLFGSNFVPLKKFDTGDGMFLQWVLC AAIWLVALVNLILH  
CPKFWPFAMLGCCIWATGNIAVVP IIKTIGLGLGILIWGSFNALTGWASSRFGWFGLDAE  
EVSNPLLNYIGAGLSVVS AIFLFIKSEIPNNTCSMDTTP LITEHVINTTQDPCSWVDKL  
STVHHRIVGCSLAVISGVLYGSTFVP I IYIKDHSKRND SIYAGASQYDLDYVFAHFGIF

LTSTVYFLAYCIAMKNSPKLYPEAVLPGFLSGVLWAIATCCWFIANHSLSAVVSFPIITA  
GPGFIAAMWGIFMFKEIKGLQNYLLMILAFCIILTALCTAFSKI

>sp|Q9HC07|TM165\_HUMAN Transmembrane protein 165 OS=Homo sapiens GN=TMEM165 PE=1 SV=1  
MAAAPGNRASAPRLLLFLVPLLWAPAAVRAGPDEDLSHRNKEPPAPAQQQLQPQPVAV  
QGPEPARVEKIFTPAAPVHTNKEDPATQTNLGFIAHFAAISVVIIVSELGDKTFFIAAIM  
AMRYNRLTVLAGAMLALGLMTCLSVLFGYATTVIPRVYTYVSTVLFAIFGIRMLREGLK  
MSPDEGQEELEEVQAELEKDEEFQRTKLLNGPGDVETGTSITVPQKKWLHFISPIFVQA  
LTLTFLAEWGDRSLTTIVLAAREDPYGVAVGGTVGHCLCTGLAVIGGRMIAQKISVRTV  
TIIGGIVFLAFAFSALFISPDGSGF

>sp|Q8IY95|TM192\_HUMAN Transmembrane protein 192 OS=Homo sapiens GN=TMEM192 PE=1 SV=1  
MAAGGRMEDGSLDITQSIEDDPLLDALLPHHSLQAHFRPRFHLPTVIVNLLWFIHLV  
FVVLAFLTGVLCSPNPNEKCPGNYTNPLKVQTVIILGKVLWILHLLLECYIQYHHSK  
IRNRGYNLIYRSTRHLKRLALMIQSSGNTVLLLILCMQHSFPEPGRLYDLILAILALEL  
ICSLICLLIYTVKIRRFNKAKEPDILEEEKIYAYPSNITSETGFRITSSLEEIVEKQGD  
TIEYLKRHNALLSKRLLALTSSDLGCQPSRT

>sp|Q8WW34|TM239\_HUMAN Transmembrane protein 239 OS=Homo sapiens GN=TMEM239 PE=1 SV=3  
MRVGTWICLPGRPGRCRKQHDLGNCPEVPGIFKTLALSPGAPDMMQPRVETDTIGAGEG  
PQQAVPWSAWVTRHGVRWVWSHMPPSWIQWWSTSNWRQPLQRLWGLEGILYLLALML  
CHALFTTGSHLLSSLWPVVAVWRHLLPALLLLVLSPALLFTASFLLLFSTLLSLVGL  
LTSMTHPGDTQDLQ

>sp|Q24JQ0|TM241\_HUMAN Transmembrane protein 241 OS=Homo sapiens GN=TMEM241 PE=2 SV=1  
MCVRRSLVGLTFCTCYLASYLTNKYVLSVLKFTYPTLFGWQTLIGGLLHVSWKLGWVE  
INSSSRSHVLVWLPASVLFVGIYAGSRALSRLAIPVFLTLHNVAEVIICGYQKCFQKEK  
TSPAKICSALLLLAAAGCLPFNDSQFNPDGYFWAIHLLCVGAYKILQKSQKPSALSDID  
QQYLNIFYSVVLLAFASHPTGDLFSVLDFFLYFYRFHGSCCASGFLGFFLMFSTVKLKN  
LLAPGQCAAWIFFAKIITAGLSILLFDAILTSATTGCLLLGALGEALLVFSEKSS

>sp|Q9NWD8|TM248\_HUMAN Transmembrane protein 248 OS=Homo sapiens GN=TMEM248 PE=1 SV=1  
MFSINPLENLKVYISSRPLVFMISVSAMAIATLGYFFKIKEIKSPEMAEDWNTFLL  
RFNDLDLCVSENETLKHLLTNDTTTPESTMTSGQARASTQSPQALEDSGPVNISVSITLTL  
DPLKPFGGYSRNVTHLYSTILGHQIGLSGREAHHEINITFTLPTAWSSDDCALHGHCEQV  
VFTACMTLTASPGVFPVTVQPPHCVPDTYSNATLWYKIFTTARDANTKYAQDYNPFWCYK  
GAIGKVYHALNPKLTVIVPDDDRSLINLHLMHTSYFLFVMVITMFCYAVIKGRPSKLRQS  
NPEFCPEKVALAEA

>sp|Q8WUH6|TM263\_HUMAN Transmembrane protein 263 OS=Homo sapiens GN=TMEM263 PE=1 SV=1  
MNQTDKNQQEIPSYLNDEPPEGSMKDHPQQQPGMLSRVTGGIFSVTKGAVGATIGGVAWI  
GGKSLEVTKTAVTTVPSMIGLVKGGVSAVAGGVTAVGSAVNVKPLTGKKKDKSD

>sp|Q8N661|TM86B\_HUMAN Lysoplasmalogenase OS=Homo sapiens GN=TMEM86B PE=1 SV=2  
MDAGKAGQTLKTHCSAQRPDVCRWLSPIILSCCVYFCLWIPEDQLSWFAALVKCLPVLCL  
AGFLWVMSPSGGYTQLLQALVCSAVGDACLIWPAAFVPGMAAFATAHLLYVWAFGFSPL  
QPGLLLLIILAPGPYLSVLVQHLEPDMVLPVAAAYGLILMAMLRGLAQGGSAGWGALLFT  
LSDGVLAWDTFAPLPHALVIMTTYAAQLLITLSALRSPVPKTD

>sp|Q8NBN3|TM87A\_HUMAN Transmembrane protein 87A OS=Homo sapiens GN=TMEM87A PE=1 SV=3  
MAAAWLQVLPVILLLLGAHPSPLSFFSAGPATVAAADRSKWHIPIPSGKNYFSFGKILF  
RNTTIFLKFDGEPDLSLNTWYLSADCYNEIYNFKAEEVELYLEKLKEKRLSGKYQT



SSKLFQNCSELFKTQTFSGDFMHRLPLLGEKQEAKENGNTLTFIGDKTAMHEPLQTWQDA  
PYIFIVHIGISSKESKENSLSNLTMTVEVKGPYEYLTLEDYPLMIFFMVCIVYVLF  
GVLWLAWSAACYWRDLRIQFWIGAVIFLGMLEKAVFYAEFQNIIRYKGESVQGALILAELL  
SAVKRSLARTLVIIVSLGYIVKPRLGVTLHKVVVAGALYLLFSGMEGVLRVTGAQTDLA  
SLAFIPLAFLDTALCWWIFISLTQTMKLLKLRNIVKLSLYRHFTNTLILAVAASIVFII  
WTTMKFRIVTCQSDWRELWDDAIWRLLFSMILFVIMVLWRPSANNQRFASFPLSEEEEE  
DEQKEPMLKESFEGMKMRSTKQEPNGNSKVKAQEDDLKWVEENVSSVTDVALPALLDS  
DEERMITHFERSKME

>sp|A6NKF7|TM88B\_HUMAN Transmembrane protein 88B OS=Homo sapiens GN=TMEM88B PE=3 SV=1  
MSEQGRETEEEEGGGASDTAPMLPRGPPDHQASALTCPGWSPPLLPGRLLAGLLHL  
LPAAAFLLVLLPAAAVVYLGFCHSRVHPAPGPRCRAFSDRGSAALIVFGLLSLPPLLV  
LASAVRARLARLRPLPPAGTPGPRRPPGRPDEDEQLCAWV

>sp|O15321|TM9S1\_HUMAN Transmembrane 9 superfamily member 1 OS=Homo sapiens GN=TM9SF1  
PE=2 SV=2

MTVVGNPWSWCQWLPILILLGTGHGPGVEGVTHYKAGDPVILYVNVKVPYHNPQETYH  
YYQLPVCCPEKIRHKSLSLGEVLDGDRMAESLYEIRFRENVEKRILCHMQLSSAQVEQLR  
QAIEELYFFEFVDDLPIRGFVGYMEESGFLPHSHKIGLWTHLDFHLEFHGDRIIFANVS  
VRDVKPHSLDGLRPDEFLGLTHTYSVRWSETSVERRSDRRRGDDGGFFPRTLEIHWLSII  
NSMVLVFLLVGFVAVILMRVLRNDLARYNLDEETTSAGSGDDFDQGDNGWKIIHTDVFRF  
PPYRGLLCAVLGVGAQFLALGTGIIVMALLGMFNVHRHGAINSAAILLYALTCCISGYVS  
SHFYRQIGGERWWNIILTTSLFSVPFFLTWSVNSVHWANGSTQALPATTILLLLTVWL  
LVGFPLTVIGGIFGKNNASPFDAPCRTKNIAREIPPQWPYKSTVIHMTVGGFLPFSATSV  
ELYYIFATVWGREQTYLYGILFFVFAILLSVGACISIALTYFQLSGEDYRWWWRSVLSVG  
STGLFIFLYSVFYARRSNMSGAVQTVEFFGYSLLTGYVFFLMLGTISFFSSLKFIIRYIY  
VNLKMD

>sp|Q96EY4|TMA16\_HUMAN Translation machinery-associated protein 16 OS=Homo sapiens  
GN=TMA16 PE=1 SV=2

MPKAPKGSAGREKKVIHPYSRKAQITREAHKQEKKELKNEKALRLNLVGEKLQWFQN  
HLDPQKKRYSKKDACELIERYNRFSSELEQIELHNSIRDRQGRRHCSRETVIKQTMERE  
RQQFEGYGLEIPDILNASNLKTFREWDFDLKKLPNIKMRKICANDAIPKTCKRKTIIITVD  
QDLGELELNDESSDSDEMTAVA

>sp|Q8TDI7|TMC2\_HUMAN Transmembrane channel-like protein 2 OS=Homo sapiens GN=TMC2 PE=2  
SV=3

MSHQVKGLKEEARGGVKGRVKSPTSHTGDRLGRRSSSKRALKAEGTPGRRGAQRSQKERA  
GGSPSPGSPRRKQTGRRRHREELGEQERGEAERTCEGRRKRDERASFQERTAAPKREKEI  
PRREEKSKRQKKPRSSSLASSAGGESLSEEELAQILEQVEEKKLIATMRSKPWMAKK  
LTELREAQEFVEKYEGALGKGKQLYAYKMLMAKKWVKFRDFDNFKTQCIPWEMKIKD  
IESHFSSVASYFIFLRWMYGVNLVLFGLIFGLVIIPEVLMGMPYGSIPRKTVPRAEEEK  
AMDFSVLWDFEGYIKYSALFYGYNNQRTIGWLRYPMAYFMVGVSFVGYSIIIVIRSM  
ASNTQGSGTESDNFTFSFKMFTSWDYLGNSSETADNKYASITTSFKESIVDEQESNKE  
ENIHLTRFLRVLANFLIICCLCGSGYLIYFVVKRSQQFSKMQNVSWYERNEVEIVMSLLG  
MFCPPLFETIAALENYHPRTGLKWQLGRIFALFLGNYTFLLALMDDVHLKLANEETIKN  
ITHWTLFNYYNSSGWNESVPRPPLHPADVPRGSCWETAVGIEFMRLTVSDMLVTYITILL  
GDFLRACFVRFMNYCWCWDLEAGFPSYAEFDISGNVLGLIFNQGMIMGVSFYAPGLVGIN

VLRLTSMYFQCWAVMSSNVHERVFKASRSNNFYMGLLLLVLFLSLLPVAYTIMSLPPS  
FDCGPFSGKNRMVDVLQETIENDFPTFLGKIFAFLANPGLIIPAILLMFLAIYYLNSVSK  
SLSRANAQLRKKIQVLEVEKSHKSVKGKATARDSEDTPKSSSKNATQLQLTKEETTPPS  
ASQSQAMDKKAQGPSTNSASRTTLPASGHLPISRPPGIGPDSGHAPSQTHPWRSASGKS  
AQRPPH

>sp|Q8N6Q1|TMC5A\_HUMAN Transmembrane and coiled-coil domain-containing protein 5A OS=Homo sapiens GN=TMC05A PE=2 SV=2

MEISRLAQSKRNIISLNMDLERDTRIDEANQKLLKIQEREDKIQRLSEIIQTRGLVE  
DEEWEKENRTTMERERALQEEEEARLERKNKTLVHSITELQQKLTRKSQKITNCEQSS  
PDGALEETKVKLQQLEASYACQEKELLKVMKEYAFVTQLCEDQALYIKKYQETLKKIEEE  
LEALFLEREVSKLVSMNPVEKEHTSQNNEGTPTKTARLFSSKIFCCLFFITLFFIRLLS  
YMFHVRFINPDLLVNVLPKVLGRSTLWKLRCFFFPSTLETEDMLPH

>sp|Q6UXY8|TMC5\_HUMAN Transmembrane channel-like protein 5 OS=Homo sapiens GN=TMC5 PE=2 SV=3

MSAYYRNWSEEDPDYDPDYSQNRQTQGYLKTQGYPDVPGPLNNPDYPGTRSNPYSVASR  
TRPDYPGSLAEPNYPRSLSNPDYSGTRSNAYSAAARTSPDHPTSLPEPDYSEFQSHPYHR  
ASSRQPDYPGSQRPDFASSSSGNYAGSRTHPDHFGSLEPDYPGAQNSDHPGPRANLN  
HPGSRKNLEHTSFRINPYADSLGKPDYPGADIQPNSPFFGEPDYPESAEDNQNLPTWRE  
PDYSDAENGHDYGSSETPKMTRGVLSRTSSIQPSFRHRSDDPVGSWGENDYPEGIEMAS  
MEMANSYGHSLPGAPGSGYVNPAYVGESGPVHAYGNPPLSECDWHKSPQGQKLIASLIPM  
TSRDRIKAIRNQPRTMEEKRNLRKIVDKEKSKQTHRILQLNCCIQLNSISRAYRRSKNS  
LSEILNSISLWQKTLKIIGGKFGTSVLSYFNFLRWLLKFNIFSILNFSFIIIPQFTVAK  
KNTLQFTGLEFFTGVGYFRDVTMYGYFTNSTIQHGNSGASYNMLAYIFTIGACLTTCF  
FSLLFMAKYFRNNFINPHIYSGGITKLIFCWDFTVTHEKAVKLKQKNLSTEIRENLSEL  
RQENSKLTFNQLLTRFSAYMVAWVVSTGVAIACCAVYYLAEYNLEFLKTHSNPGAVLLL  
PFVVCINLAVPCIYSMFRLLVERYEMPRHEVYVLLIRNIFLKISIIIGILCYWLNVALS  
GEECWETLIGQDIYRLLMDVFVSLVNSFLGEFLRRIIGMQLITSLGLQEFDIARNVLEL  
IYAQTLVWIGIFFCPLLPFIQMIMLFIMFYSKNISLMMNFQPPSKAWRASQMMTFFIFLL  
FFPSFTGVLCTLAITWRLKPSADCGPFRGLPLFIHSIYSWIDTLSTRPGYLWVWVIYRN  
LIGSVHFFFILTLIVLIITYLWQITEGRKIMIRLLHEQIINEGKDKMFLIEKLKQLQDM  
EKKANPSSLVLERREVEQQGFLHLGEHDGSLDLRSRRSVQEGNPRA

>sp|Q7Z403|TMC6\_HUMAN Transmembrane channel-like protein 6 OS=Homo sapiens GN=TMC6 PE=1 SV=2

MAQPLAFILDVPETPGDQGGQSPYDESEVHDSFQQLIQEQSQCTAQEGLELQQREREVT  
GSSQQLWRPEGTQSTATLRILASMPSTIGRSRGAIISQYYNRTVQLRCRSSRPLLGNF  
VRSAPSLRLYDLELDPTALEEEEEQSLLVKELQSLAVAQRDHMLRGMPLSLAEKRSRE  
KSRTPRGKWGRQPGSGGVCSCCGRLYACVLALHSLGLALLSALQALMPWRYALKRIGGQ  
FGSSVLSYFLFKTLAFAFNALLLLLVAFIMGPQVAFPPALPGPAPVCTGLELLTGAGCF  
THTVMYYGHYSNATLNQPCGSPLDGSQCTPRVGGPYNMPLAYLSTVGVSFFITCITLVY  
SMAHSFGESYRVGSTSGIHAITVFCSDYKVTQKRASRLQQDNIRTRLKELLAEWQLRHS  
PRSVCGRLRQAAVLGLVWLLCLGTALGCAVAVHVFSEFMISPEAAGQEAVLLVLPLVVG  
LLNLGAPYLCRVLAALPHDSPVLEVYVAICRNILKLAITLGLCYHWLGRRVGLVGGQC  
WEDFVGQELRYFLVMDFVLMLLDTLFGELVWRIISEKKLRRRKPEFDIARNVLELIYGQ  
TLTWLGVLFSPLLPAVQIIKLLLVFYVKKTSLLANCQAPRRPWLAHSMSTVFLTLCLCPA

FLGAAVFLCYAVWQKPSSTCGPFRTLDTMYEAGRVVVRHLEAAGPRVSWLPWVHRYLME  
NTFFVFLVSALLAVIYLNQVVRGQRKVICLLKEQISNEGEDIKIFLINKLHSIYERKER  
EERSRVGTTEEAAPALLTDEQDA

>sp|Q96DC7|TMC06\_HUMAN Transmembrane and coiled-coil domain-containing protein 6 OS=Homo sapiens GN=TMC06 PE=1 SV=2

MWSRRQGRLRPTVCGVEELRRRRREREAALRKARREQQLVSKRLLRNDAPEEAGEGCVAA  
ILGETEVQQFLRQAQRGTEEKEREGALVSLRRLQHPETQQTFIRLEGSMRTLVLGLTSN  
QALLQLEAARCLHELHSHSEQSTVAEACLPATSYLLTYLSSHSSDFIELCLYTLGNLIVES  
EAVRRQLLPQGIVPALAACIQSPHAVLEALGYALSQLLQAEAEPEKIIPSILASTLPQH  
MLQMLQPGPKLNPGVAVEFAWCLHYIICSQVSNPLIGHGALSTLGLLLDLGAVQKTE  
DAGLELLACPVLRCLSNLLTEAAVETVGGQMQLRDERVVAALFILLQFFFQKQPSLLPEG  
LWLLNLTANSPSFACTSLLSLDLIEPLLQLLPVSNVSVMLTVLCNVAEKGPAYCQRLW  
PGPLLPALLHTLAFSDTEVVGQSLELLHLLFLYQPEAVQVFLQQSGLQALERHQEEAQLQ  
DRVYALQQTALQG

>sp|Q13445|TMED1\_HUMAN Transmembrane emp24 domain-containing protein 1 OS=Homo sapiens GN=TMED1 PE=1 SV=1

MMAAGAAALALALWLLMPPVEVGGAGPPPIQDGEFTFLLPAGRKQCFYQSAPANASLETEY  
QVIGGAGLDVDFTLSESPQGVLLVSESRKADGVHTVEPTAEAGDYKLCFDNSFSTISEKLVF  
FELIFDSLQDDEEVEGWAEAVEPEEMLDVKMEDIKESIETMRTRLERSIQMLTLLRAFEA  
RDRNLQEGNLERNFWSAVNVAVLLLVAVLQVCTLKRFFQDKRPVPT

>sp|Q9Y3A6|TMED5\_HUMAN Transmembrane emp24 domain-containing protein 5 OS=Homo sapiens GN=TMED5 PE=1 SV=1

MGDKIWLFPFVLLAALPPVLLPGAAGFTPSLSDSDFTLFAGQKECFYQPMPLKASLEI  
EYQVLGDAGLDIDFHLASPEGKTLVFQEKSDGVHTVETEVGDYMFCDNTFSTISEKVI  
FFELILDNMGEQAQEQEDWKKYITGTDILDMKLEDILESINSIKSRLSKSGHIQTLLRAF  
EARDRNIQESNFDVNFWSMVNLVVMVVSAIQVYMLKSLFEDKRKSRT

>sp|O14668|TMG1\_HUMAN Transmembrane gamma-carboxyglutamic acid protein 1 OS=Homo sapiens GN=PRRG1 PE=1 SV=1

MGRVFLTGEKANSILKRYPRANGFFEEIRQGNIERECKEEFCTFEEAREAFENNEKTKEF  
WSTYTKAQQGESNRGSDWFQFYLTFLIFGLFIILLVIFLIWRCFLRNKTRRQTVTEGHI  
PFPQHLNIITPPPPDEVFDDSSGLSPGFLGYVGRSDSVSTRLSNCDPPPTYEEATGQVN  
LQRSETEPHLDPPPEYEDIVNSNSASAIPMPVVTTIK

>sp|Q9BZD7|TMG3\_HUMAN Transmembrane gamma-carboxyglutamic acid protein 3 OS=Homo sapiens GN=PRRG3 PE=2 SV=2

MAVFLEAKDAHSVLKRFPRANEFLEELRQGTIERECMEEICSYEEVKEVFENKEKTMEFW  
KGYPNVAVSVRDPSSDAMYVVVPLLGVALLIVIALFIIWRCQLQKATRHHPSYAQNRY  
LASRAGHTLPRVMVYRGTVHSQGEPSGHREAAANSQVVLGPSRGRTTVRLESTLYLPEL  
SLSRLSSTTPPPSYEEVTAPQESSSEEASVSYSPPPKYEEIVAANPGADK

>sp|PODMS9|TMIG3\_HUMAN Transmembrane domain-containing protein TMIGD3 OS=Homo sapiens GN=TMIGD3 PE=2 SV=1

MEGSPAGPIEQKEARWESSWEEQPDWTLGCLSPESQFRIPGLPGCILSFQLKVCFLPVMW  
LFILLSLALISDAMVMDEKVKRSFVLDTASAI CNYNAHYKNHPKYWCRGYFRDYCNIIAF  
SPNSTNHVALRDTGNQLIVTMSCLTKEDTGWYWCGIQRDFARDDMDFTELIVTDDKGTLA  
NDFWSGKDLSGNKTRSCAPKVVRKADRSTSILIIICILITGLGIISVISHLTKRRRSQR

NRRVGNTLKPFSRVLTPKEMAPTEQM

>sp|Q86X19|TMM17\_HUMAN Transmembrane protein 17 OS=Homo sapiens GN=TMEM17 PE=1 SV=2  
MELDPVVRQLGNFSRAVFSDSNRTGPESNEGPEMNVSSLALQMSLYFNTYYFPLWWVS  
SIMMLHMKYSILPDYKFIVITVILITLIEAIRLYLGYVGNLQEKVPELAGFWLLSLLL  
QLPLILFLLFNEGLTNLPLEKAIHIIFTLFLAFQVVAFLTLRKMVNQLAVRFHLQDFDR  
LSANRGDMRRMRSCIEEI

>sp|P57088|TMM33\_HUMAN Transmembrane protein 33 OS=Homo sapiens GN=TMEM33 PE=1 SV=2  
MADTTPNGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALFVLPLLGLHEAASFYQRALL  
ANALTSALRLHQRLPHFQLSRAFLAQALLEDSCHYLLYSLIFVNSYPVTMSIFPVLLFSL  
LHAATYTKKVLDAAGSNLPLLRVLDKLSANQQNILKFIACNEIFLMPATVFMLFSGQG  
SLLQPFIIYRFLTLRYSSRRNPYCRTLNFELRIVVEHIIMKPACPLFVRRRLCLQSIAFIS  
RLAPTVP

>sp|Q9H2L4|TMM60\_HUMAN Transmembrane protein 60 OS=Homo sapiens GN=TMEM60 PE=2 SV=1  
MRMSLAQRVLLTWLFTLLFLIMLVKLDEKAPWNWFLIFIPVWIFDTILLVLLIVKMAGR  
CKSGFDPRHGSHNIKKAWYLIAMLLKLAFLCALCAKLEQFTTMNLSYVFIPLWALLAGA  
LTELGYNVFFVRD

>sp|Q96MH6|TMM68\_HUMAN Transmembrane protein 68 OS=Homo sapiens GN=TMEM68 PE=2 SV=2  
MIDKNQTCGVGQDSVPYMICLIHILEEWFGVEQLEDYLNLFANYLLWVFTPLILLILPYFT  
IFLLYLTIIFLHIYKRKNVLKEAYSHNLWDGARKTVATLWDGHAHVHGYEVHGMEKIPE  
DGPALIIFYHGAIPIDFYFMAKIFIHKGRCTRVVADHFVFKIPGFSLLLDVFCALHGPR  
EKCVEILRSGHLLAISPGGVREALISDETYNIWGHRRGFAQVAIDAKVPIIPMFTQ NIR  
EGFRSLGGTRLFRWLYEKFRYPFAPMYGGFPVKLRTYLGDPPIPYDPQITAEELAEKTKNA  
VQALIDKHQRIPGNIMSALLERFH

>sp|P01374|TNFB\_HUMAN Lymphotoxin-alpha OS=Homo sapiens GN=LTA PE=1 SV=2  
MTPPERLFLPRVCGTTLHLLLLGLLLVLLPGAQGLPGVGLTPSAAQTARQHPKMHLAHST  
LKPAAHLIGDPSKQNSLLWRANTDRAFLQDGFSLSNNSLLVPTSGIYFVYSQVVFSGKAY  
SPKATSSPLYLAHEVQLFSSQYPFHVPLLSSQKMVYPGLQEPWLHSMYHGAAFQLTQGDQ  
LSTHTDGIPHLVLSPTVFFGAFAL

>sp|Q8N1K5|THMS1\_HUMAN Protein THEMIS OS=Homo sapiens GN=THEMIS PE=1 SV=3  
MALSLEEFVHSLDLRTLPRVLEIQAGIYLEGSIYEMFGNECCFSTGEVIKITGLKVKKII  
AEICEQIEGCESLQPFELPMNFPGLFKIVADKTPYLTMEETRTIHIGPSRLGHPCFYHQ  
KDIKLENLI IKQGEQIMLSNVEEIDGEIMVSCAVARNHQTHSFNPLSQEGEFYECEDER  
IYTLKEIVEWKIPKNRTRTVNLTDFSNKWDSTNPFKDFYGTILKPVYEIQGVMKFRKD  
IIRILPSLDVEVKDITDSYDANWFLQLLSTEDLFEMTSKEFPITVEIEAPEGNHLPQSI  
LQPGKTIVIHKKYQASRILASEIRSNFPKRHFLIPTSYKGKFKRRPREFPTAYDLEIAKS  
EKEPLHV VATKAFHSPHDKLSSVSGDQFLVHQSETTEVLCEGIKKVVNLACEKILKKS  
YEAALLPLYMEGGFVEVIHDKKQYPISELCKQFRLPFNVKVSVRDLSIEEDVLAATPGLQ  
LEEDITDSYLLISDFANPTCEWEIPVGRNMTVQLVSNFSRDAEPFLVRTLVEEITEEQY  
YMMRRYESSASHPPRPKHPKHSVEETKLTLTLAEERTVDLPKSPKRHHVDITKKLHPNQ  
AGLDSKVLIGSQNDLVDEEKERSNRGATAIAETFKNEKHQK

>sp|Q8NI27|THOC2\_HUMAN THO complex subunit 2 OS=Homo sapiens GN=THOC2 PE=1 SV=2  
MAAAVVVPAEWIKNWEKSGRGEFLHLCRILSENKSHDSSTYRDFQQAALYELSYHVIKGN  
LKHEQASNVLSDISEFREDMPSILADVFCILDITNCLEEKSKRDYFTQLVLACLYLVSD  
TVLKERLDPETLESGLIKSQQFNQKSVKIKTKLFYKQKFNLLREENEGYAKLIAELG

QDLGSITSDLILENIKSLIGCFNLDPNRVLDVILEVFECRPEHDDFFISLLESYMSMCE  
PQTLCHILGFKFKFYQEPNGETPSSLYRVAAVLLQFNLIDLDDLYVHLLPADNCIMDEHK  
REIAEAKQIVRKLTMVVLSSEKMDEREKEKEKEKEKEVEKPPDNQKLGLEALLKIGDWQH  
AQNIMDQMPPIYAASHKLIALAICKLIHITIEPLYRRVGVPKGAKGSPVNALQNKRAPKQ  
AESFEDLRRDVFNMFCYLGPHLSHDPILFAKVVRIGKSFMKFQSDGSKQEDKEKTEVIL  
SCLLSITDQVLLPSLSLMDCNACMSEELWGMFKTFPYQHRYRLYGQWKNETYNHPLLVK  
VKAQTIDRAKYIMKRLTKENVKPSGRQIGKLSHSNPTILFDYILSQIQKYDNLITPVVDS  
LKYLTSLNVDLAYCIIIEALANPEKERMKHDDTTISSWLQSLASFCGAVFRKYPIDLAGL  
LQYVANQLKAGKSFDDLILKEVVQKMAGIEITEEMTMEQLEAMTGGEQLKAEGGYFGQIR  
NTKSSQRLKDALLDHDLALPLCLLMAQQRNGVIFQEGGEKHLKLVGKLYDQCHDTLVQF  
GGFLASNLSTEDYIKRVPSIDVLCNEFHTPHDAAFFLSRPMYAHHISSKYDELKKSEKGS  
KQKHVKHYITSCEMVMAPVHEAVVSLHVSQVWDDISPQFYATFWSLTMYDLAVPHTSYE  
REVNKLKVQMKAIIDNQEMPPNKKKKEKERCTALQDKLLEEEKQMEHVQRVLRQLKLEK  
DNWLLAKSTKNETITKFLQLCIFPRCIFSAIDAVYCARFVELVHQQKTPNFSTLLCYDRV  
FSDIITYVASCTENEASRYGRFLCCMLETVTRWHSRATYEKECGNYPGFLTILRATGFD  
GGNKADQLDYENFRHVHWHYKLTASVHCLETGEYTHIRNILIVLTKILPWYPKVLNL  
GQALERRVHKICQEEKEKRPDLYALAMGYSGQLKSRSYMIPENEFHKKDPPPRNAVASV  
QNGPGGGPSSSSIGSASKSDESSTEETDKSRERSQCGVKAVNKASSTTPKGNSSNGNSGS  
NSNKAVKENDKEKGEKEKEKEKEKTPATTPEARVLGKDGEKPKERPNDKARETKER  
TPKSDKEKEKFKKEEKAKDEKFKTTVPNAESKSTQEREREKEPSRERDIAKEMKSKENVK  
GGEKTPVSGSLKSPVPRSDIPEPEREQRRKIDTHPSPHSSTVKDSLIELKESSAKLYI  
NHTPPPLSKSKEREMDKDLDSRERSREREKKDEKDRKERKRDHSNNDREVPPDLTKRR  
KEENGTMGVSKHSESPCESPYNEKDEKKNKSSSGKEKGSDFKSEKMDKISSGGKKE  
SRHDKEKIEKKEKRDSSGGKEKKHHKSSDKHR

>sp|Q13769|THOC5\_HUMAN THO complex subunit 5 homolog OS=Homo sapiens GN=THOC5 PE=1 SV=2

MSSESSKKRKPKVIRSDGAPAEGRNRSDETEQEGKYYSSEAEVDLRDPGRDYELYKYTCQ  
ELQRLMAEIQDLKSRGGKDVAIEIEERRIQSCVHFM TLKKLNRLAHLRLKKGRDQTHEAK  
QKVDAYHLQLQLNLLYEVMHLQKEITKCLEFKSKHEEIDLVSLEEFYKEAPPDISKAETM  
GDPHQQLARLDWELEQRKRLAEKYRECLSNKEKILKEIEVKKEYLSSQLPRLNSIMQAS  
LPVQEYLFMPFDQAHKQYETARHLPPPLYVLFVQATAYGQACDKTLSVAIEGSDVDEAKAL  
FKPPEDSQDDESDSAEEEEQTTKRRRPTLGVLDDKRKEMLRHPLSVMLDLCKCKDDSVL  
HLTFYYLMNLNIMTVKAKVTTAMELITPISAGDLLSPDSVLSCLYPGDHGKKTNPANQY  
QFDKVGILTSDYVLELGHYPYLWVQKLGGLHFPKEQPQQTVIADHSLSASHMETTMKLLK  
TRVQSRALAHKQFASLEHGIVPTSDCQYLFPAKVVSRLVKWVTVAHEDYMELHFTKDIV  
DAGLAGDTNLYYMALIERGTAKLQAAVVLNPGYSSIPPVFQLCLNWKGEKTSNDDNIRA  
MEGEVNVICYKELCGPWPSHQLLTNQLQRLCVLLDVYLETESHDDSVGPKFEPQEKMLR  
LFRGPSRMKPFKYNHPQGFFSHR

>sp|Q92748|THRSP\_HUMAN Thyroid hormone-inducible hepatic protein OS=Homo sapiens GN=THRSP  
PE=1 SV=1

MQVLTkryPKNCLLTVMdryAAEVHnMEQVVMIPSLLRDVQLSGPGGQAQAEAPDLYTYF  
TMLKAICVDVDHGLLPREEWQAKVAGSEENGTAETEEVEDESASGELDLEAQFHLHFSSL  
HHILMHLTEKAQEVTRKYQEMTGQVW

>sp|Q6ZMP0|THSD4\_HUMAN Thrombospondin type-1 domain-containing protein 4 OS=Homo sapiens  
GN=THSD4 PE=2 SV=2

MVSHFMGSLSVLCFLLLLGFQFVCPQPSTQHRKVPQRMAAEGAPEDDGGGGAPGVWGAWG  
PWSACSRSCSGGVMEQTRPCLPRSYRLRGGQRPGAPARAFADHVVS AVRTSVPLHRSRDE  
TPALAGTDASRQGPTVLGRSRHPQPGLEVTGDRRSRTRGTIGPGKYGYKAPYIILPLQT  
DTAHTPQRLRRQKLSSRHSRSQGASSARHGYSSPAHQVPQHGPLYQSDSGPRSLQAAEA  
PIYQLPLTHDQGYPAASSLFHSPETSNNHGVGTHGATQSFSQPARSTAISCIGAYRQYKL  
CNTNVCPESSRSIREVQCASYNKPFMGRFYEWEFPAEVKGNRKCELNCQAMGYRFYVRQ  
AEKVIDGTPCDQNGTAICVSGQCKSIGCDDYLGS DKVVDKCGVCGGDNTGCQVVS GVFVKH  
ALTSLGYHRVVEIPEGATKINITEMYKSNNYLALRSRSGRSIINGNWAIDRPGKYEGGGT  
MFTYKRPN EISSSTAGESFLAEGPTNEILDVYMIHQPNPGVHYEYVIMGTNAISPQVPPH  
RRPGEPFNGQMVTEGRSQEEGEQKGRNEEKEDLRGEAPEMFTSESAQTFPVRHPDRFSPH  
RPDNLVPPAPQPPRRSRDHNNWKQLGTTECSTTCGKGSQYPIFRCVHRSTHEEAPESYCD  
SMKPTPEEEPCNIFCPAFWDIGEWSECSKTCGLGMQHRQVLCRQVYANRSLTVQPYRCQ  
HLEKPETTSTCQLKICSEWQIRTDWTSCSVPCGVGQRTRDVKCVSNIGDVVDDEECNMKL  
RPNDIENCMDGPCAKSWFLTEWSECSAECGAGVTRSVVCMTNHVSSLPLEGCGNNRPA  
EATPCDNGPCTGKVEWFAGSWSQCSIECGSGTQQREVICVRKNADTFEVLDPSECSFLEK  
PPSQQSCHLKPCGAKWFSTEWSMCSKSCQGGFRVREVRCLSDMTLSNLCDPQLKPEERE  
SCNPQDCVPEVDENCKDKYYNCNVVVQARLCVYNYKTACCASCTRVANRQTGFLGSR

>sp|Q9BU02|THTPA\_HUMAN Thiamine-triphosphatase OS=Homo sapiens GN=THTPA PE=1 SV=3

MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDYDTPELSLMQADHWLRRREDS  
GWELKCPGAAGVLGPHTYKELTAEPTIVAQLCKVLADGLGAGDVA AVLGLGLQEVAS  
FVTKRSAWKLVLGGADEEPPQLRVDLDTADFGYAVGEVEALVHEEA EPTALEKIHRLSS  
MLGVPAQETAPAKLIVYLQRF RPQDYQRLLEVNSSRERPQETEDPDHCLG

>sp|Q9BTF0|THUM2\_HUMAN THUMP domain-containing protein 2 OS=Homo sapiens GN=THUMP2 PE=2 SV=2

MSEARGEPSGPEAGARFFCTAGRGLEPFVMREVRARLAATQVEYISGKVFFTTCSDLNM  
LKKLKS AERLFLLIKQFPLIISSVSKGKIFNEMQRLINEDPGSWLNAISIWNLELDA  
KKEKLSQRDDNQLKRKVGENEIIAKKLKIEQMQUIEENRDCQLEKQIKEETLEQRDFTTK  
SEKFQEEEFQNDIEKAIDTHNQNDLTFRVSCRSGTIGKAFTAQEVGKVIGIAIMKHFGW  
KADLRNPQLEIFIHLNDIYSVVGIPVFRVSLASRAYIKTAGLRSTIAWAMASLADIKAGA  
FVLDPMCGLGTILLEAAKEWPDVYVVGADVSDS QLLGTWDLKAAGLEDKIELLKISVIE  
LPLPSESVDIIISDIPFGKKFKLGKDIKSILQEMERVLHVGGTIVLLLS EDDHRRLTDC  
ESNIPFNSKDSHTDEPGIKKCLNPEEKTGAFKTA STSFEASNHKFLDRMSPFGSLVPVEC  
YKVS LGKTD AFICKYKSHSSGL

>sp|P01266|THYG\_HUMAN Thyroglobulin OS=Homo sapiens GN=TG PE=1 SV=5

MALVLEIFTLLASICWVSANIFEYQVDAQPLRPCELQRETAFLKQADYVPQCAEDGSFQT  
VQCQNDGRSCWCVGANGSEVLGSRQPGRPVACLSFCQLKQKQILLSGYINSTDTSYLPQC  
QDSGDYAPVQCDVQQVCWCVDAEGMEVYGT RQLGRPKRCPRSC EIRNRLLHGVGDKSP  
PQCSAEGEFMPVQCKFVNTTMMIFDLVHSYNRFPDAFVTFSS FQRRFPEVSGYCHCADS  
QGRELAETGLELLDEIYDTIFAGLDLPSTFTETTL YRILQRRFLAVQSVISGRFRCPTK  
CEVERFTATSFGHPYVPSRRNGDYQAVQCQTEGPCWCVDAQGKEMHGTRQQGEPPSCAE  
GQSCASERQQALSRLYFGTSGYFSQHDLFSSPEKRWASPRVARFATSCPPTIKELFVDSG  
LLRPMVEGQSQQFSVSENLLKEAIRAIFPSRGLARLALQFTTNPKRLQQNLFGGKFLNV  
GQFNLSGALGTRGTNFNSQFFQQLGLASFLNGGRQEDLAKPLSVGLDSNSSTGTPEAAKK  
DGTMNKPTVGSFGFEINLQENQNALKFLASLLELPEFLLFLQHAISVPEDVARDLGDVME

TVLSSQTCEQTPERLFPVPSCTTEGSYEDVQCFSGECWCVNSWGKELPGSRVRGGQPRCPT  
DCEKQRARMQSLMGSQPAGSTLFPACTSEGHLFPVQCFNSECYCDAEGQAIPGTRSAI  
GKPKKCPTPCQLQSEQAFLRTVQALLSNSSMLPTLSDTYIPQCSTDGQWRQVQCNGPPEQ  
VFELYQRWEAQNKGDLTAKLLVKIMSYREAASGNFSLFIQSLYEAGQQDVFPVLSQYP  
SLQDVPLAALEGKRPQPRENILLEPYLFWQILNGQLSQYPGSYSDFSTPLAHFDLRNCWC  
VDEAGQELEGMRSEPSKLPTCPGSCCEEAKLRVLQFIRETEEIVSASNSSRFPLGESFLVA  
KGIRLRNEDLGLPPLFPPEAFAEQFLRGSDYAIRLAAQSTLSFYQRRRFSPDDSAGASA  
LLRSGPYMPQCDAFGSWEVPVQCHAGTGHCWCVDEKGGFIPGSLTARSLQIPQCPTTCEKS  
RTSGLSSWKQARSQENPSPKDLFVPACLETGEYARLQASGAGTWCVDPASGEELRPGSS  
SSAQCPSLCNVLKSGVLSRRVSPGYVPACRAEDGGFSPVQCDQAQGSWCVMDSGEEVPG  
TRVTGGQPACESPRCPLPFNASEVVGITLCETISGPTGSAMQQCQLLCRQGSWSVFPPG  
PLICSLESGRWESQLPQPRACRQPLWQTIQTQGHFQLQLPPGKMCSADYADLLQTFQVF  
ILDELTAARGFCQIQVKTFTGLVSIIPVCNNSSVQVGCLTRERLGVNVTWKSRLDIPVASL  
PDLHDIERALVGKDLLGRFTDLIQSGSFQLHLDSTKTPAETIRFLQGDHFGTSPRTWFGC  
SEGFYQVLTSEASQDGLGCVKCEGSYSQDEECIPCVGFYQEQAGSLACVPCPVGRITTI  
SAGAFSQTHCVTDCQRNEAGLQCDQNGQYRASQKDRGSGKAFCVDGEGRRLPWWETEAPL  
EDSQCLMMQKFEKVPESKVIIFDANAPVAVRSKVPDSEFPVMQCLTDCTEDEACSFFTVST  
TEPEISCDFYAWTSDNVACMTSDQKRDALGNSKATSFGLSLRCQVKVRSHGQDSPAIVLKK  
GGGSTTTLQKRFEPTGFQNMLSGLYNPIVFSASGANLTAHLFCLLACDRDLCCDGFVLT  
QVQGGAIICGLSSPSVLLCNVKDWMDPSEAWANATCPGVTYDQESHQVILRLGDQEFIK  
SLTPLEGTQDFTNFQVYLWKSDMGSRPESMGCRKDTVPRPASPTAAGLTTELFSVPD  
LNQVIVNGNQLSSQKHWLFKHLFSAQQANLWCLSRCVQEHSCQLAEITESASLYFTCT  
LYPEAQVCDDIMESNAQGCRILPQMPKALFRKKVILEDKVKNFYTRLFPQKLMGISIRN  
KVPMSSEKISNGFFECERRCDADPCCTGFGFLNVSQKGGEVTCCLTNSLGIQMCSEENG  
GAWRILDCGSPDIEVHTYFPGWYQKPIAQNNAPSFCLVVLPSLTEKVSLSWSQLALSS  
VVVDPSIRHFDVAHVSTAATSNSAVRDLCLSECSQHEACLTTLTQTPGAVRCMFYADT  
QSCTHSLQGQNCRLLLREEATHIYRKPGISLLSYEASVPSVPISTHGRLLGRSQAIQVGT  
SWKQVDQFLGVPYAAPLAERRFQAPEPLNWTGSDASKPRASCWQPGTRTSTSPGVSED  
CLYLNVPFIPQNVAPNASVLVFFHNTMDREESEGWPAIDGSFLAAVGNLIVVTASYRVGVF  
GFLSSGSGEVSGNWGLLDQVAALTWVQTHIRGFGDPRRVSLAADRGGADVASHLLTAR  
ATNSQLFRRAVLMMGSALSPAAVISHERAQQQAIALAKEVSCPMSSSQEVVSLRQKQKQAN  
VLNDAQTKLLAVSGPFHYWGPVIDGHFLREPPARALKRSLWVEVDLLIGSSQDDGLINRA  
KAVKQFEESRGRSTSKTAFYQALQNSLGGEDSDARVEAAATWYYSLEHSTDDYASFSRAL  
ENATRDYFIICPIIDMASAWAKRARGNVFMYHAPENYGHGSLELLADVQFALGLPFYPAY  
EGQFSLEEKSLSLKIMQYFSHFIRSGNPYPYFSRKVPTFATPWPDFVPRAGGENYKEF  
SELLPNRQGLKKADCSFWSKYISSLKTSADGAKGGQSAESEEELTAGSGLREDLLSLQE  
PGSKTYSK

>sp|P49788|TIG1\_HUMAN Retinoic acid receptor responder protein 1 OS=Homo sapiens  
GN=RARRES1 PE=1 SV=2

MQPRRQRLPAPWSGPRGRPTAPLLALLLLAPVAAPAGSGDPDDPGQPQDAGVPRRLLQ  
QAARAALHFFNFRSGSPSALRVLAEVQEGRAWINPKEGCKVHVVFSTERYNPESLLQEGE  
GRLGKCSARVFFKNQKPRPTINVTCTRLIEKKKRQQEDYLLYQMKQLKNPLEIVSIPDN  
HGHIDPSLRLLIWDLAFLGSSYVMWEMTTQVSHYYLAQLTSVRQWKTNDTIDFDYTVLLH  
ELSTQEIIPCRIHLVWYPGKPLKVKYHCQELQTPEEASGTEEGSAVVPTLSNF

>sp|Q96DA6|TIM14\_HUMAN Mitochondrial import inner membrane translocase subunit TIM14  
OS=Homo sapiens GN=DNAJC19 PE=1 SV=3

MASTVVAVGLTIAAAGFAGRYVLQAMKHMEPQVKQVFQSLPKSAFSGGYRGGFEPKMTK  
REAALILGVSTANKGKIRDAHRRIMLLNHPDKGGSPYIAAKINEAKDLLEGQAKK

>sp|Q43615|TIM44\_HUMAN Mitochondrial import inner membrane translocase subunit TIM44  
OS=Homo sapiens GN=TIMM44 PE=1 SV=2

MAAAALRSGWCRCPRRLGSGIQFLSSHNLPHGSTYQMRPVGELPLSKSYSSGNRKGF  
SGLLDNVKQELAKNKEMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVL  
KLKELTGTVKESLHEVSKSDLGRKIKEGVVEAAKTAKQSAESVSKGGEKLGRTAAFRALS  
QGVESVKKEIDDSVLGQTGPYRRPQRLRKRTEFAGDKFKEEKVFEPNEEALGVVLHKDSK  
WYQQWKDFKENNVFNRFEMMKYDESDNAFIRASRALTDKVTDLLGGLFSKTEMSEVL  
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCYEATYSQLAHPQQAKA  
LGLQFHSRILDIDNVDLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRML  
YVWALCRDQDELNPYAAWRLLDISASSTEQIL

>sp|Q96A98|TIP39\_HUMAN Tuberoinfundibular peptide of 39 residues OS=Homo sapiens GN=PTH2  
PE=1 SV=1

METRQVSRSPRVRLLLLLLLLLVVPWGVRTASGVALPPVGVLRLPPGRAWADPATPRPR  
RSLALADDAAFRERARLLAALERRHWLNSYMHKLLVLDAP

>sp|Q86UU9|TKN4\_HUMAN Tachykinin-4 OS=Homo sapiens GN=TAC4 PE=1 SV=1

MLPCLALLLMLSVCTVAGDGGEQTLSTEETWVIVALEEGAGPSIQLQLQEVKTGKA  
SQFFGLMGKRVGGRPLIQPRRKAYQLEHTFQGLLGKRSFTGREDEAQQSE

>sp|Q04727|TLE4\_HUMAN Transducin-like enhancer protein 4 OS=Homo sapiens GN=TLE4 PE=1  
SV=3

MIRDLKMYPTQTRHPAPHQPAQPFKFTISESCDRIKEEFQFLQAQYHSLKLECEKLASEK  
TEMQRHYVVMYEMSYGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQVQVQAVERAKQV  
TMAELNAIIGQQLQAQHLSHGHLVPVPLTPHPSGLQPPAIPPIGSSAGLLALSSALGGQS  
HLPIKDEKKHHDNDHQDRDRIKSSSVSPSASFRTGAEKHRNSADYSSSESKKQKTEEKEIA  
ARYSDGEEKSDNDLVVDVSNEDPSSPRGSPAHSRENGLDKTRLLKKDAPISPASIASSS  
STPSSKSKELSLNEKSTTPVSKSNTPTPTDAPTPGSNSTPGLRPVPGKPPGVDPLASSL  
RTPMAVPCPYPTPGIVPHAGMNGELTSPGAAYAGLHNISPQMSAAAAAAAAAAYGRSP  
VVGFDPHHMRVPAIPPNLTGIPGGKPAYSFHVSDGGMQVVPFPDPDALIGPGIPRHARQ  
INTLNHGEVVCVAVTISNPTRHVTGGKGCVKVWDISHPGNKSPVSQLDCLNRDNYIRSCR  
LLPDGRTLIVGGEASTLSIWDLAAPTPIKAELTSSAPACYALAI SPDSKVCFSCCSDGN  
IAVWDLHNQTLVRQFQGHTDGASCIDISNDGTLWTGGLDNTVRSWDLREGRQLQQHDFT  
SQIFSLGYCPTGEWLAVGMENSNEVLHVTKPDKYQLHLHESCVLSLKFAHCGKWFVSTG  
KDNLLNAWRTPYGASIFQSKESSSVLSCDISVDDKYIVTGSGDKKATVYEVIIY

>sp|Q9Y2C9|TLR6\_HUMAN Toll-like receptor 6 OS=Homo sapiens GN=TLR6 PE=1 SV=2

MTKDKEPIVKSFFHVCMLIIIVGTRIQFSDGNEFAVDKSKRGLIHVPKDLPLKTKVLDMS  
QNYIAELQVSDMSFLSELTVLRLSHNRIQLLDLSVFKFNQDLEYLDLSHNQLQKISCHPI  
VSFRHLDLSFNDFKALPICKEFGNLSQLNFGLSAMKLQKLDLLPIAHLHLSYILLDLRN  
YYIKENETESLQILNAKTLHLVFHPTSLFAIQVNISVNTLGCLQLTNIKLNDNCQVFIK  
FLSELTRGSTLLNFTLNHIETTWKCLVRVFQFLWPKPVEYLYNIYNTIIIESIREEDFTYS  
KTTLKALTIEHITNQVFLFSQTALYTVFSEMNMMLTISDTPFIHMLCPHAPSTFKFLNF  
TQNVFTDSIFEKCSLTVKLETILQKNGLKDLFKVGLMTKDMPSLEILDVSWNSLESGRH



KENCTWVESIVVLNLSSNMLTDSVFRCLPPRIKVLDLHSNLIKSVPKQVVKLEALQELNV  
AFNSLTDLPGCGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNPFQCTCELREF  
VKNIDQVSSEVLEGWPD SYKCDYPESYRGSPLKDFHMSSELSCNITLLIVTIGATMLVLAV  
TVTSLCIYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSEHDSA WVKSEL  
VPYLEKEDIQICLHERNFVPGKSIVENIINCIEKSYKSIFVLSPNFVQSEWCHYELYFAH  
HNLFHEGSNLILILLEPIPQNSIPNKYHKLKALMTQRTYLQWPKEKSKRGLFWANIRAA  
FNMKLTLV TENNDVKS

>sp|Q15363|TMED2\_HUMAN Transmembrane emp24 domain-containing protein 2 OS=Homo sapiens  
GN=TMED2 PE=1 SV=1

MVTLAELLVLLAALLATVSGYFVSIDAHAECEFFERVTSGTKMGLIFEVAEGGFLDIDVE  
ITGPDNKG IYKGDRESSGKYTFAAHMDGTYKFCFSNRMSTMTPKIVMFTIDIGEAPKGQD  
METEAHQNKLEEMINELAVAMTAVKHEQEYMEVRERIHRANDNTNSRVVLWSFFEALVL  
VAMTLGQIYYLKRFFEVRVV

>sp|Q8WW62|TMED6\_HUMAN Transmembrane emp24 domain-containing protein 6 OS=Homo sapiens  
GN=TMED6 PE=2 SV=2

MSPLLFGAGLVVLNLVTSARSQKTEPLSGSGDQPLFRGADRYDFAIMIPPGTECFWQFA  
HQTGYFYFSYEVQRTVGMSHDRHVAATAHNPQGFLIDTSQGVRGQINFSTQETGFYQLCL  
SNQHNHFGSVQVYLNFGVFYEGPETDHKQKERKQLNDTLDAIEDGTQKVQNNIFHMWRYY  
NFARMRKMADFFLIQSNYNYVNWSTAQSLV IILSGILQLYFLKRLFNVP TTTDTKKPRC

>sp|Q9Y3B3|TMED7\_HUMAN Transmembrane emp24 domain-containing protein 7 OS=Homo sapiens  
GN=TMED7 PE=1 SV=2

MPRPGSAQRWAAVAGRWGCRL LALLLLVPGPGASEITFELPDNAKQCFYEDIAQGTKCT  
LEFQVITGGHYDVDCRLEDPDGKVL YKEMKKQYDSFTFTASKNGTYKFCFSNEFSTFTHK  
TVYFDFQVGEDPPLFPSEN RVSALTQMESACVSIHEALKSV IDYQTHFRLREAQGRSRAE  
DLNTRVAYWSVGEALILLVVSIGQVFLKSFSDKRTTTTRVGS

>sp|Q9Y2B1|TMEM5\_HUMAN Transmembrane protein 5 OS=Homo sapiens GN=TMEM5 PE=1 SV=1

MRLTRKRLCSFLIALYCLFSLYAAHYVFFGRRRQAPAGSPRGLRKGAAPARERRGREQST  
LESEEWNPWEGDEKNEQQHRFKTSLQILDKSTKGKTDLSVQIWGAAIGLYLWEHIFEGL  
LDPSDVT AQWREGKSIVGRTQYSFITGPAVIPGYFSVDVNNVVLILNGREKAKIFYATQW  
LLYAQNLVQIQKLQHLAVVLLGNEHCDNEWINPFLKRNGGFVELLFIIYDSPWINDVDVF  
QWPLGVATYRNF PVVEASWSMLHDERPYLCNFLGTIYENSSRQALMNILKKDGNDKLCWV  
SAREHWQPQETNESLKNYQDALLQSDLTLCPVGVNTECYRIYEACSYGSIPVVEDVMTAG  
NCGNTSVHHGAPLQLKSMGAPFIFIKNWKELPAVLEKEKTIILQEKIERRKM L LQWYQH  
FKTELKMKFTNILESSFLMNNKS

>sp|Q9POT7|TMEM9\_HUMAN Transmembrane protein 9 OS=Homo sapiens GN=TMEM9 PE=1 SV=1

MKLLSLVAVVGCLLVPPAEANKSSEDIRCKCICPPYRNISGHIYNQNV SQKDCNCLHVVE  
PMPVPGHDVEAYCLLCECRYEERSTTTIKV IIVYLSVVGALLLYMAFLMLVDPLIRKPD  
AYTEQLHNEEENEDARSM AAAASLGGPRANTV LERVEGAQQRWKLQVQEQRKTVFDRHK  
MLS

>sp|Q8NEW7|TMIE\_HUMAN Transmembrane inner ear expressed protein OS=Homo sapiens GN=TMIE  
PE=1 SV=2

MAGWPGAGPLCVLGGAALGVCLAGVAGQLVEPSTAPPKPKPPPLTKETVVFWMRLWHV  
GIFSLFVLSIIITLCCVFNCRVPTRKEIEARYLQRKAAKMYTDKLETVPPLNELTEVPG  
EDKKKKKKKKDSVDTVAIKVEEDEKNEAKKKKGEK

>sp|P17152|TMM11\_HUMAN Transmembrane protein 11, mitochondrial OS=Homo sapiens GN=TMEM11 PE=1 SV=1

MAAWGRRRLGPGSSGGSARERVSLSATDCYIVHEIYNGENAQDQFEYELEQALEAQKYI  
VIEPTRIGDETARWITVGNCLHKTAVLAGTACLF TPLALPLDYSHYISLPAGVLSLACCT  
LYGISWQFDPCCKYQVEYDAYKLSRLPLHTLTSSTPVVLVRKDDLHRKRLHNTIALAALV  
YCVKKIYELYAV

>sp|QOP6H9|TMM62\_HUMAN Transmembrane protein 62 OS=Homo sapiens GN=TMEM62 PE=1 SV=1

MAAVLALRVVAGLAAAALVAMLLEHYGLAGQPSPLPRPAPRRPHAPGPGDSNIFWGLQ  
ISDIHLSRFRDPGRAVDLEKFCSETIDI IQPALVLATGDLDAKTKEQLGSRQHEVEWQT  
YQGILKKTRVMEKTKWLDIKGNHDAFNIPSLDSIKNYRKYSAVRRDGSFHYVHSTPFGN  
YSFICVDATVNP GPKRPYNFFGILDKKKMEELLLLAKESSRSNHTIWFGHFTTSTILSPS  
PGIRSIMSSAIAYLCGLHHTLGGMLPVLHTRHFQGTLELEVGDWKNRRYRIFAFDHDLF  
SFADLIFGKWPVVLITNPKSLLYSCGEHEPLERLLHSTHIRVLAFLSSITSVTVKIDGV  
HLGQAVHVS GPIFVLKWNPRNYSSGTHNIEIVQDSAGRSKSVHHIFSVQENNHLSFDPL  
ASFILRTDHYIMARVLFVLIVLSQLTILIIFRYRGYPELKEPSGFINLTSFSLHVL SKIN  
IFYYSVLLLTLTYTVLGPWFGEIIDGKFGCCFSFGIFVNGHFLQGSITFIIGILQLAFFN  
IPLMAYMCWSLLQRCFGHNFRSHLHQRKYLKIMPVHLLMLLLYIWQVYSCYFLYATYGTL  
AFLFSLPLRTWLTLLTPVLIRYVWTLNSTKFGIFMVQLKSHLSS

>sp|AOPJX8|TMM82\_HUMAN Transmembrane protein 82 OS=Homo sapiens GN=TMEM82 PE=2 SV=2

MFSLSPLSPSWLPGPLSLEWGSSLLDSLLQGLIGALGVLVLNSLLKVYFFVGCANDPQRRP  
EKERLRAQWASLETVHLAGLALFLT VVGSRVAALVVLEFSLRAVSTLLSLGKGSQGAER  
LQLYLLCQYSLGCCGLTCGLSFLQEGAPHRTLNNLLSLGLATLLGLGARRLHRHVCRLYEL  
HSSQRYCGVCLGLLAHAHGLPQLLGRALAI AFAVGDLAAVALINQDFLT TSEAMRFTWPL  
TICYTLLVIYMQEEQRQHPGLQSQVQTVLV RMGGLFVLLLTVGRWLDLLGILVSLLGELW  
CLVGVRTLLDLCIQDFPSQRPPVSTPSQPLPSAPQSQSSAPS

>sp|Q9HCN3|TMM8A\_HUMAN Transmembrane protein 8A OS=Homo sapiens GN=TMEM8A PE=1 SV=3

MGRAGTGTGGEAAVAVAGPLLLLLLARPPPASAGYSGKSEVGLVSEHFSQAPQRLSFYS  
WYGSARLFRFRVPPDAVLLRWLLQVSRESGAAC TDAEITVHFRSGAPPVINPLGTSFPDD  
TAVQPSFQGVPLSTTPRSNASVNVSHPAPGDWFVA AHLPPSSQKIELKGLAPTCA YVFQ  
PELLVTRVVEISIMEPDVPLPQTLLSHPSYLVFVPDYTRELLLELRDCVSNGSLGCPVR  
LTVGPVTLPSNFQKVLCTGAPWPCRLLLPSP PWDRWLQVTAESLVGPLGTVA FSAVAAL  
TACRPRSVTIQPLLQSSQNQSFNASSGLLSPSPDHQDLGRSGRVD RSPFCLTNYPVTRED  
MDVVSVHFQPLDRVSVRVCSDTPSVMRLRLNTGMDSGGSLTISLRANKTEM RNETVVVAC  
VNAASPFLGFNTSLNCTTAFFQGYPLSLSAWSRRANLIIPYPETDNWYLSLQLMCPENAE  
DCEQAVVHVETTLVLPCLNDCGPYGQCLLLRRHSYLYASCSCKAGWRGWSCTDNSTAQT  
VAQQRAATLLLTLSNLMFLAPIAVSVRRFFLVEASVYAYTMFFSTFYHACDQPGEAVLCI  
LSYDTLQYCDFLGSGAAIWVTILCMARKTVLKYVLFLLGTLVIAMSLQLDRRGMW NMLG  
PCLFAFVIMASMWAYRCGHRRQCYPTSWQRWAFYLLPGVSMASVGIAIYTSMMTSDNYYY  
THSIWHILLAGSAALLPPPDQPAEPWAC SQKFPCHYQICKNDREELYAVT

>sp|Q6ZNR0|TMM91\_HUMAN Transmembrane protein 91 OS=Homo sapiens GN=TMEM91 PE=2 SV=1

MDSPSLRELQQPLLEGTECETPAQKPGRHELGSPLREIAFAESLRGLQFLSPPLPSVSAG  
LGEPRPPDVEDMSSSDSDSDWDGGSRLSPFLPHDHLGLAVFSMLCCFPVPGIAAFCLAQK  
TNKAWAKGDIQGAGAASRRAFLLGVLAVGLGVCTYAAALVTLAAYLASRDPP

>sp|A6NI61|TMM8C\_HUMAN Protein myomaker OS=Homo sapiens GN=TMEM8C PE=3 SV=1

MGTLVAKLLLPTLSSLAFLPTVSI AAKRRFHMEAMVYLFTLFFVALHHACNGPGLSVLCF  
MRHDILEYFSVYGTALSMWVSLMALADFDEPKRSTFVMFGVLTIAVRIYHDRWGYGVYSG  
PIGTAILIIAAKW LQKMKKKGLYPDKSVYTQQIGPGLCFGALALMLRFFFEDWDYTYVH  
SFYHCALAMSFVLLL PKVNKKAGSPGTPAKLDCSTLCCACV

>sp|Q9NQ34|TMM9B\_HUMAN Transmembrane protein 9B OS=Homo sapiens GN=TMEM9B PE=1 SV=1  
MATLWGGLRLRLGSLLSCLALSLLLLAQLSDAAKNFEDVRCKCICPPYKENS GHIYNKN  
ISQKDCDCLHVVEPMPVRGPDVEAYCLRCECKYEERSSVTIKVTIIIIYLSILG LLLLYMV  
YLT LVEPILKRRLF GHAQLIQSDDDIGDHQPFANAHDV LARSRSRANVLNKVEYAQQRWK  
LQVQEQRKSVFDRHVLS

>sp|Q9NZR1|TMOD2\_HUMAN Tropomodulin-2 OS=Homo sapiens GN=TMOD2 PE=1 SV=1  
MALPFQKELEKYKNIDEDELLGKLSEEELKQLENVLDLDPE SAMLPA GFRQKDQTQKAA  
TGPFDREHLLMYLEKEALEQKDREDFVPFTGEKKGRVFIPEKEPIETRKEEKVTL DPELE  
EALASASDTELYDLAAVLGVHNLNNPKFDEETANNKGGKGPVRNVVKG EKVKPVFEPP  
NPTNVEISLQQM KANDPSLQEVNLNNIKNIPITLREFAKALETNTHVKKFSLAATRSND  
PVAIAFADMLKV NKTLTSLNIESNFITGTGILALVEALKENDTLTEIKIDNQRQQLGTAV  
EMEIAQMLEENSRILKFGYQFTKQGPRTVAAAITKNNDLVRKKRVEADRR

>sp|Q8N394|TMTC2\_HUMAN Transmembrane and TPR repeat-containing protein 2 OS=Homo sapiens  
GN=TMTC2 PE=2 SV=1

MIAELVSSALGLALYLNTLSADFCYDDSR AIKTNQDLLPETPWTHIFYNDFWGTLLTHSG  
SHKSYRPLCTLSFRLNHAIGGLNPWSYHLVNVLHAAVTGLFTSF SKILLGDGYWTFMAG  
LMFASHPIHTEAVAGIVGRADV GASLFFLLSLLCYIKHCSTRGYSARTWG WFLGSGLCAG  
CSMLWKEQGVTVLAVSAVYDVVFHRLKIKQILPTIYKRKNLSLFLSISLLIFWGSSLLG  
ARLYWMGNKPPSFSNSDNPAA SDSLLTRTLTFFYLPTKNLWLLCPDTLSFDWSMDAVP  
LLKTVCDWRNLHTVAFYTGLLLLAYYGLKSPSV DRECNGKTVTNGKQ NANGHSCLSDVEY  
QNSETKSSFASKVENGIKN DVSQRTQLPSTENIVVLSLLIIPFVPATNLFFYVGFVIA  
ERVLYIPSMGFCLLITVGARALYVKVQKRFLKSLIFYATATLIVFYGLKTAIRNGDWQNE  
EMLYRSGIKVNP AKAWGNLGNVLKSQSKISEAESAYRNALYYRSNMADMLYNLGLLLQEN  
SRFAEALHYKLAIGSRPTLASAYLNTGIIILMNQGRTEEARRTFLKCSEIPDENLKDPHA  
HKSSVTSCLYNLGLKYHEQGHYEEALSVYKEAIQKMPRQFAPQSLYMMGEAYMRLSKLP  
EAEHWYMESLRSKTDHIPAHLTYGKLLALTGRKSEA EKLFKAIELDPTKGNCYMHYGQF  
LLEEARLIEAAEMAKKAAELDSTEFDVVFNAAHMLRQASLNEAAEKYYDLAARLRPNYP A  
ALMNLGAILHLNRLQKAEANYLRALQLKPDDVITQSNLRKLWNIMEKQGLKTSKT

>sp|Q9BVT8|TMUB1\_HUMAN Transmembrane and ubiquitin-like domain-containing protein 1  
OS=Homo sapiens GN=TMUB1 PE=1 SV=1

MTLIEGVGDEVTVLFSVLACLLVLALAWVSTHTAEGGDPLPQPSGTPTPSQPSAAMAATD  
SMRGEAPGAETPSLRHRGQAAQPEPSTGFTATPPAPDSPQEPLVLR LKFLNDSEQVARAW  
PHDTIGSLKRTQFPGREQQVRLIYQGQLLGDDTQTLGSLHLPPNCVLHCHVSTRVGPPNP  
PCPPGSEPGSGLEIGSLLLPLLLLLLLLLLWYCQIQYRPFPLTATLGLAGFTLLLSLLA  
FAMYRP

>sp|Q71RG4|TMUB2\_HUMAN Transmembrane and ubiquitin-like domain-containing protein 2  
OS=Homo sapiens GN=TMUB2 PE=1 SV=2

MISRHLQNNLMSVDPASSQAMELSDVT LIEGVGNEVMVAGVVVLILALVLAWLSTYVAD  
SGSNQLLGAIVSAGDTSVLHLGHVDHLVAGQGNPEPTELPHPSEGND EKAEEAGEGRGDS  
TGEAGAGGGVEPSLEHLLDIQGLPKRQAGAGSSSPEAPLRSEDSTCLPPSPGLITVRLKF

LNDTEELAVARPEDTVGALKSKYFPGQESQMCLIYQGRLQDPARTLRSLNITDNCVIHC  
HRSPPGSAVPGPSASLAPSATEPPSLGVNVGSLMVPVFVLLGVVWYFRINYRQFFTAPA  
TVSLVGVTVFFSFLVFGMYGR

>sp|096008|TOM40\_HUMAN Mitochondrial import receptor subunit TOM40 homolog OS=Homo sapiens GN=TOMM40 PE=1 SV=1

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGSAGTSTSRSSERTPGA  
ATASASGAAEDGACGCLPNPGTFEECHRCKELFPIQMEGVKLTVNKGLSNHFQVNHTVA  
LSTIGESNYHFGVTYVGTKQLSPTEAFPVLVGDMNSGSLNAQVIHQLGPGLRSKMAIQT  
QQSKFVNWQVDGEYRGSDFTAAVTLGNPDVLVSGSILVAHYLQSITPCLALGGELVYHRR  
PGEETVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS  
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTI  
G

>sp|094826|TOM70\_HUMAN Mitochondrial import receptor subunit TOM70 OS=Homo sapiens GN=TOMM70 PE=1 SV=1

MAASKPVEAAVVAAPSSGSGVGGGTAGPGTGGLPRWQLALAVGAPLLLGAIAIYLS  
RQQRREARGRGDASGLKRNSERKTPEGRASPAPGSGHPEGPAHLDMNSLDRAQAAKNK  
GNKYFKAGKYEQAICYTEAISLCPTKENVDLSTFYQNRAAAFEQLQKWKEVAQDCTKAV  
ELNPKYVKALFRRAKAHEKLDNKECLEDTVAVCILEGFQNNQSMMLADKVLKLLGKEKA  
KEKYKNREPLMPSPQFIKSYFSSFTDDIISQPMKGEKSDEKDKKEGEALEVKENSGYLK  
AKQYMEENYDKIISECSKEIDAEGKYMAEALLLRATFYLLIGNANAAKPDLDKVISLKE  
ANVKLRANALIKRGSYMQQQQLLSTQDFNMAADIDPQNADVYHHRGQLKILLDQVEEA  
VADFDECIRLRPESALAAQKCFALYRQAYTGNNSSQIQAAMKGFEEV IKKFPRCAEGYA  
LYAQUALTDQQQFGKADEMYDKCIDLEPDNATTYVHKGLLQLQWKQDLDRGLELISKAIEI  
DNKCDFAYETMGTIEVQRGNMEKAIDMFNKAINLAKSEMMAHLYSLCDAHAHQTEVAKK  
YGLKPPTL

>sp|O14657|TOR1B\_HUMAN Torsin-1B OS=Homo sapiens GN=TOR1B PE=1 SV=2

MLRAGWLRGAAALALLAARVVAAFEPITVGLAIGAASAITGYLSYNDIYCRFAECCREE  
RPLNASALKLDLEELFGQHLATEVIFKALTGFRNNKNPKPLTLHLGWAGTGKNFVSQ  
IVAENLHPKGLKSNFVHLFVSTLHFPHEQKIKLYQDQLQKWIRGNVSACANSVFI FDEMD  
KLHPGIIDAIPFLDYEQVDGVSyrkaIFIFLSNAGGDLITKTALDFWRAGRKREDIQL  
KDLEPVL SVGVFNKHSGLWHSGLIDKNLIDYFIPFLPLEYRHVKMCVRAEMRARGSAID  
EDIVTRVAEEMTFFPRDEKIYSDKGCKTVQSRLDFH

>sp|Q12974|TP4A2\_HUMAN Protein tyrosine phosphatase type IVA 2 OS=Homo sapiens GN=PTP4A2 PE=1 SV=1

MNRPAPEISYENMRFLITHNPTNATLNKFTEELKKYGVTTLVRVCDATYDKAPVEKEGI  
HVLDPFDDGAPPPNQIVDDWLNLLKTKFREEPGCCVAVHCVAGLGRAPVLVALALIECG  
MKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPMRLRFRDTNGHCCVQ

>sp|P51580|TPMT\_HUMAN Thiopurine S-methyltransferase OS=Homo sapiens GN=TPMT PE=1 SV=1

MDGTRTSLDIEEYSDTEVQKNQVLTLEEWQDKWVNGKTAHQEQGHQLLKKHLDTFLKGG  
SGLRVFFPLCGKAVEMKWFADRGHSSVVGVEISELGIQEFFTEQNLSYSEEPITEIPGTKV  
FKSSSGNISLYCCSIFDLPRTNIGKFDMIWDRGALVAINPGDRKCYADTMFSLGKKFQY  
LLCVLSYDPTKHPGPPFYVPHAEIERLFGKICNIRCLEKVDAFEERHKSXGIDCLFEKLY  
LLEK

>sp|P40238|TPOR\_HUMAN Thrombopoietin receptor OS=Homo sapiens GN=MPL PE=1 SV=1

MPSWALFMVTSCLLAPQNLAQVSSQDVSLASDSEPLKCFSTRFEDLTCFWDEEEAAPS  
GTYQLLYAYPREKPRACPLSSQSMPHFGTRYVCQFPDQEEVRLFFPLHLVWKNVFLNQTR  
TQRVLFDVSVGLPAPPSIIKAMGGSQPGELQISWEEPAPPEISDFLRYELRYGPRDPKNST  
GPTVIQLIATETCCPALQRPHSASALDQSPCAQPTMPWQDGPQTSPSREASALTAEGGS  
CLISGLQPGNSYWLQLRSEPDGISLGGSWGWSLPTVDLPGDAVALGLQCFTLDLKNVT  
CQWQQQDHASSQGFFYHSRARCPRDRYPIWENCEEEEEKTNPGLQTPQFSRCHFCSRND  
IIHILVEVTTAPGTVHSLGSPFWIHQAVRLPTPNLHWREISSGHLELEWQHPSSWAAQE  
TCYQLRYTGEGHQDWKVLPEPLGARGGTLELRPRSRYRLQLRARLNGPTYQGPWSSWSDP  
TRVETATETAWISLVTALHLVLGLSAVLGLLLLRLWQFPAHYRRLRHAWPSLPDLHRVLG  
QYLRDTAALSPPKATVSDTCEEVEPSLLEILPKSSERTPLPLCSSQAQMDYRRLQPSCLG  
TMPLSVCPPMAESGSCCTTHIANHSYLPLSYWQQP

>sp|Q9Y5R8|TPPC1\_HUMAN Trafficking protein particle complex subunit 1 OS=Homo sapiens  
GN=TRAPPC1 PE=1 SV=1

MTVHNLYLFDRNGVCLHYSEWHRKKQAGIPKEEYKLMYMLFSIRSFVSKMSPLDMKDG  
FLAFQTSRYKLHYETPTGIKVMNTDLGVGPIRDVLHHIYSALYVELVVKNPCLPLGQT  
VQSELFRRSLDSYVRSLPFFSARAG

>sp|Q9Y296|TPPC4\_HUMAN Trafficking protein particle complex subunit 4 OS=Homo sapiens  
GN=TRAPPC4 PE=1 SV=1

MAIFSIVVVKAGGLIYQLDSYAPRAEAEKTFSYPLDLLKLHDERVLVAFGQRDGIRVG  
HAVLAINGMDVNGRYTADGKEVLEYLGNPANYPVSIIRFGPRRLTSNEKLMLASMFHSLFA  
IGSQLSPEQGSSGIEMLTDTFKLHCYQTLTGIFVVLADPRQAGIDSLLRKIYEIYSDF  
ALKNPFYSLEMPIRCELFDQNLKLALEVAEKAGTFGPGS

>sp|Q8IU00|TPPC5\_HUMAN Trafficking protein particle complex subunit 5 OS=Homo sapiens  
GN=TRAPPC5 PE=1 SV=1

MEARFTRGKSALLERALARPRTEVSLSAFALLFSELVQHCQSRVFSVAELQSRLAALGRQ  
VGARVLDALVAREKGARRETKVLGALLFVKGAVWKALFGKEADKLEQANDDARTFYIIER  
EPLINTYISVPKENSTLNCASFTAGIVEAVLTHSGFPAKVTAHWHKGTTLMIKFEEAVIA  
RDRALEGR

>sp|Q9BW30|TPPP3\_HUMAN Tubulin polymerization-promoting protein family member 3 OS=Homo sapiens  
GN=TPPP3 PE=1 SV=1

MAASTDMAGLEESFRKFAIHGDPKASGQEMNGKNWAKLCKDCKVADGKSVTGTVDIVFS  
KVKGKSARVINYEYFKKALEELATKRFKGSKEEAFDAICQLVAGKEPANVGVTAKKTGG  
AVDRLTDSRYTGSHKERFDESGKGKGIAGRQDILDDSGYVSAYKNAGTYDAKVKK

>sp|Q6ZUI0|TPRG1\_HUMAN Tumor protein p63-regulated gene 1 protein OS=Homo sapiens GN=TPRG1  
PE=2 SV=1

MSTIGSFEGFQAVSLKQEGDDQPSETDHLSMEEEDPMPRQISRQSSVTESTLYPNPYHQ  
YISRKYFATRPGALETAMEDLKGHVAETSGETIQGFWLLTKIDHWNNEKERILLVTDKTL  
LICKYDFIMLSCVQLQRIPLSAVYRICLGKFTFPGMSLDRQGEGLRIYWGSPPEQSLLS  
RWNPWSTEVYPATFTEHPMKYTSEKFLEICKLSGFMSKLVPAIQNAHKNSTGSGRGKKLM  
VLTEPILIIETYTGLMSFIGNRNKLGYSLARSGIF

>sp|Q9Y3C4|TPRKB\_HUMAN EKC/KEOPS complex subunit TPRKB OS=Homo sapiens GN=TPRKB PE=1 SV=1

MLTHQLDLFPECRTVLLLFDKVNAGDLRRKAMEGTIDGSLINPTVIVDPFQILVAANK  
AVHLYKLGMKTRTLSTETIFNLSPNNNISEALKKFGISANDTSILIVYIEEGEKQINQE  
YLISQVEGHQVSLKNLPEIMNITEVKKIYKLSSQEESIGTLLDAIICRMSTKDV

>sp|095551|TYDP2\_HUMAN Tyrosyl-DNA phosphodiesterase 2 OS=Homo sapiens GN=TDP2 PE=1 SV=1  
MELGSCLEGGREAAEEGEPEVKKRRLLCVEFASVASCDAAVAQCFLAENDWEMERALNS  
YFEPPEESALERPETISEPKTYVDLTNEETDSTTSKISPS EDTQQENGSMFSLITWN  
IDGLDLNNLSERARGVCSYLALYSPDVI FLQEVIPPYSYLKKRSSNYEIIITGHEEGYFT  
AIMLKKS RVKLKSQEII PFPSTKMMRNLLCVHNVSGNELCLMTSHLESTRGHAAERMNQ  
LKMVLKKMQEAPESATVIFAGDTNLRDREVTRCGGLPNNIVDVWEFLGKPKHCQYTWDTQ  
MNSNLGITAAACKLRFDRIFRAAAEEGHII PRSLDLLGLEKLD CGRFPSDHWGLLCNLDI  
IL

>sp|P25490|YY1\_HUMAN Transcriptional repressor protein YY1 OS=Homo sapiens GN=YY1 PE=1  
SV=2

MASGDTLYIATDGSEMPAEIVELHEIEVETIPVETIETT VVGEEEEEDDDDEDGGGGDHG  
GGGGHGHAGHHHHHHHHHHHPMIALQPLVTDDPTQVHHHQEVILVQTREEVVGDDSDG  
LRAEDGFEDQILIPVPAPAGDDDYIEQTLVTVAAGKSGGGSSSSGGGRVKKGKKKS  
GKKS YLGGAGAAGGGADPGNKKWEQKQVQIKTLEGEFSVTMWSSDEKKDIDHETVVEE  
QIIIGENSPPDYSEYMTGKKLPGGIPGIDLSDPKQLAEFARMKPRKIKEDDAPRTIACPH  
KGCTKMFRDNSAMRHLHHTGPRVHVCAECGKAFVSSKLKRHQLVHTGEKPFQCTFEGC  
GKRFSLDFNLRTHVRIHTGDRPYVCPFDGCNKKFAQSTNLKSHILTHAKAKNNQ

>sp|POC7I0|U17L8\_HUMAN Inactive ubiquitin carboxyl-terminal hydrolase 17-like protein 8  
OS=Homo sapiens GN=USP17L8 PE=3 SV=1

MEDDSLYLGGEWQFNHFSKLTSPRPDAFAEIQRTSLPEKSPLSSETRVDLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYLNASLQCLTYTPPLAN YMLSREHSQTCQRP  
KCCMLCTMQAHITWALHSPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLP GH  
KQVDHHSKDTTLIHQIFGGC WRSQIKCLHCHGISD TFDPYLDIALDIQAAQSVKQALEQL  
VKPEELNGENAYPCGLCLQRAPASNTLTLHTSAKVLILVLKRFC DVTGNKLAKNVQYPEC  
LDMQPYMSQQNTGPLVYVLYAVLVHAGWSCHNGYF SYVKAQEGQWYKMDDAEVTACSIT  
SVLSQQAYVLFYIQKSEWERHSES VSRGREPRALGAEDTDRPATQGELKRDHPCLQVPEL  
DEHLVERATEESTLDHWKFPQE QNKMKPEFNVRKVEGTLPPNVLV IHQSKYKCGMKNHHP  
EQQSSLLNLSMNSTDQESMNTGTLASLQGRTRRSKGKNKHSKRSLLCVQ

>sp|C9J2P7|U17L15\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 15 OS=Homo  
sapiens GN=USP17L15 PE=3 SV=1

MEDDSLYLGGEWQFNHFSKLTSSRPDAFAEIQRTSLPEKSPLSCETRV DLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLAN YMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNP GHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLP GH  
KQVDHHSKDTTLIHQIFGGY WRSQIKCLHCHGISD TFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFS DVTGNKIDKNVQYPEC  
LDMKLYMSQTNSGPLVYVLYAVLVHAGWSCHNGHYF SYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSES VSRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQE QNKTKPEFNVRKVEGTLPPDVLV IHQSKYKCGMKNHHP  
EQQSSLLNLSSTTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|Q15695|U2AFL\_HUMAN U2 small nuclear ribonucleoprotein auxiliary factor 35 kDa subunit-  
related protein 1 OS=Homo sapiens GN=ZRSR1 PE=2 SV=2

MAALEKMTFPPKMTFPEKPSHKKYRAALKKEKRKKRRQELARLRDSGLSQEEEEEDTFIEE  
QQLEEEKLLERERERLHEEWLLREQKAQEEFRIKKEKEEAAKKWLEE QERKLKEQWKEQQ  
RKEREEEEQKQKEKKEEAVQKMLDQAENDLENSTTWQNPEPPVDFRVMEKDRANCPFY

SKTGACRFGDRCSRKHNFPTSSPTLLIKSMFTTFGMEQCRRDDYDPDASLEYSEEETYQQ  
FLDFYEDVLPFKNVGKVIQFKVSCNLEPHLRGNVYVQYQSEEECAALSLFNGRWYAGR  
QLQCEFCPVTRWKMAICGLFEIQQCPRGKHCNFLHVFRNPNEFWEANRDIYLSSDQTGS  
SFGKNSERREKMGHHDHYYSRQGRGNPSPDHTYKRNGESERKKSSHRGKKSHKRTSKSR  
ERHNPSRGRNRHRSWDQGRRSQSRSHRSRSQSSSRCSRGRRKSGNRDRTVQSPQSK

>sp|Q8IWF7|U2D2L\_HUMAN Putative ubiquitin-conjugating enzyme E2 D2-like protein OS=Homo sapiens GN=UBE2DNL PE=5 SV=1

MALKLIHKEFLELARDPQPHCSAGPVWDDMLHWQATITRPNDSSYLGGVFFLKFPDYL  
KPPKIKFTNGIYHQR

>sp|F5GYI3|UBA1L\_HUMAN Ubiquitin-associated protein 1-like OS=Homo sapiens GN=UBAP1L PE=2 SV=1

MNALDGVFPKLPKGFVIGTEPLPGPELSVPACGEVLLGSMHDFSLELTALFWVEAAGQGP  
SPYQCGDPTASAPPAWLLVSPEHGLAPATTIRDPEAGHQERPEEEGEDEAEASSGSE  
EEPAPSSLQPGSPASPGPGRRLCSLDVLRGVLELAGARRRLESEGKLVSRPRALLHGLRG  
HRALSCLPSPAQSPRSASPPGPAPQHPAAPASPPRPSTAGAIPLRSHKPTVASLSPYTC  
LPPLGGAPQPLNPHKSHPDAAADLLSALSQEEQDLIGPVVALGYPLRRAIIALQKTGRQS  
LSQFLSYLSACDRLLRQGYEEGLVDEAMEMFQFSESQAGEFLRLWEQFSDMGFQQDRIE  
VLLVHGNRREQALEELVACAQ

>sp|Q8TBC4|UBA3\_HUMAN NEDD8-activating enzyme E1 catalytic subunit OS=Homo sapiens GN=UBA3 PE=1 SV=2

MADGEEPEKKRRRIEELLAEKMAVDGGCGDTGDWEGRWNVKKFLERSGPFTHPDFEPST  
ESLQFLLDTCVVLVIGAGGLGCELLKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDI  
GRPKAEVAAEFLNDRVPNCNVPHFNKIQDFNDTFYRQFHIIVCGLDSIIARRWINGMLI  
SLLNYEDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMCTIA  
SMPRLPEHCIEYVRMLQWPKEQPFGEVPLDGGDPEHIQWIFQKSLERASQYNIRGVTYR  
LTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFAER  
KENCPCSQPLQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQSVTS  
IEERTRPNLSKTLKELGLVDGQELAVADVTPQTVLFLKHFTS

>sp|P45974|UBP5\_HUMAN Ubiquitin carboxyl-terminal hydrolase 5 OS=Homo sapiens GN=USP5 PE=1 SV=2

MAELSEEALLSVLPTIRVPKAGDRVHKDECAFSFDTPESEGGLYICMNTFLGFGKQYVER  
HFNKTGQRVYLHLRTRRPKEEDPATGTGDPPrKKPTRLAIGVEGGFDLSEEKFEDEDV  
KIVILPDYLEIARDGLGGLPDIVRDRVTSAVEALLSADSASRKQEVQAWDGEVRQVSKHA  
FSLKQLDNPARIPPCGWKCSKCDMRENWLNLTDGSIICGRRYFDGSGGNHVEHYRET  
GYPLAVKLGITPDGADVYSYDEDDMVLDPSLAEHLSHFGIDMLKMQKTDKTMTELEIDM  
NQRIGEWELIQESGVPLKPLFGPGYTGIRNLGNSCYLNSVVQVLFSDIPDFQRKYVDKLEK  
IFQNAPTDPTQDFSTQVAKLGHGLLSGEYSKPVPESGDGERVPEQKEVQDGIAPRMFKAL  
IGKGHPFSTNRQQDAQEFLHLINMVERNCRSENPNVFRFLVEEKIKCLATEKVKYT  
QRVDYIMQLPVPMDAALNKEELLEYYEKKRQAEEKMAPELVRAQVPFSSCLEAYGAPE  
QVDDFWSTALQAKSAVKTTTFASFDPDYLVIQIKKFTFGLDWVPKKLDVSIEMPEELD  
ISQLRGTGLQPGEEELPDIAAPLVTPDEPKGSLGFYGNEDDSFCSPHFSSPTSPMLDES  
VIQLVEMGFPMDACRAVYYTGNSGAEAAAMNWVMSHMDPDFANPLILPGSSGPGSTSAAA  
DPPPEDCVTTIVSMGFSRDQALKALRATNNSLERAVDWIFSHIDDLDAEAMDISGRSA  
ADSISESVVPGPKVRDGPVKYQLFAFISHMGSTMCGHYVCHIKKEGRWVIYNDQKVCAS

EKPPKDLGYIYFYQRVAS

>sp|Q9H347|UBQL3\_HUMAN Ubiquilin-3 OS=Homo sapiens GN=UBQLN3 PE=1 SV=2

MAKGGEALPQGSPAPVQDPHLIKVTVKTPKDKEDFSVTDCTIQQLKEEISQRFKAHPDQ  
LVLIFAGKILKDPDSLAQCQVRDGLTVHLVIKRQHRAMGNECPAASVPTQGSPGSLPQP  
SSIYPADGPPAFSLGLLTGLSRLGLAYRGFPDQPSSLMRQHVSVPFVFTQLIDDPFIPGL  
LSNTGLVRQLVLDPNPHMQQLIQHNPEIGHILNNPEIMRQTLEFLRNPAMMQEMIRSQDRV  
LSNLESIPGGYNVLCMTYTDIMDPMNAVQEQFGGNPFATATTDNATTTTSQPSRMENC  
PLPNPWTSTHGGSGSRQGRQDGDQDAPDIRNRFNPLGIIIRLYDYLLQHLHENPQSLGTYL  
QGTASALSQSQEPSPSVNRVPPSSPSSQEPGSGQPLPEESVAIKGRSSCPAFLRYPTENS  
TGQGGDQDGAGKSSTGHSTNLPDLVSGLGDSANRVFPAPLSFSPTAAIPGIPEPPWLPSP  
AYPSRLRPDGMNPAPQLQDEIQPLPLLMHLQAAMANPRALQALRQIEQGLQVLATEAPR  
LLLWFMPLAGTGSVAGGIESREDPLMSDPLPNPPPEVFPALDSAELGFLSPPFLHMLQ  
DLVSTNPQQLQPEAHFQVQLEQLRSMGFLNREANLQALIAATGGDVDAAVEKLRQS

>sp|Q8IYU4|UBQLN\_HUMAN Ubiquilin-like protein OS=Homo sapiens GN=UBQLNL PE=2 SV=3

MWHAISRTSRMSQSGCPSGLLADKNISSATRVIVKTAGNQKDFMVADDISVRQFKEMLL  
AHFQCQMDQLVLVFMGCLLKDHDTLSQRGIMDGHTIYLVIKSKQGSRLAHSFRDLPTND  
PCHDRNTKGNSSRVHQPTGMNQAPVELAHFVGSDAPKVHTQNLEVSHPECKAQMLENPS  
IQRLLSNMEFMWQFISEHLDITQQLMQQNPEVSRLLLDNSEILLQTLLEARNLAMIQEI  
IQPSQNLEYPLNPQPYLGLETMPGGNNALGQNYADINDQMLNSMQDPFGGNPFTALLAG  
QVLEQVQSSPPPPPPSQEQDQTLQHPATRVINSSGGFSSNTSANDTLNKNVHTSKANT  
AMISTKGQSHICATRPAPWIPALPSIELTQQLQEYKDATVSLSSSRQTLKGLQLSDEQ  
SSSQITGGMMQLLMNNPYLAAQIMLFTSMPQLSEQWRQQLPTFLQQTQISDLLSA

>sp|P57075|UBS3A\_HUMAN Ubiquitin-associated and SH3 domain-containing protein A OS=Homo sapiens GN=UBASH3A PE=1 SV=1

MAAGETQLYAKVSNKLKSRSSPSLLEPLLAMGFPVHTALKALAATGRKTAEEALAWLHDH  
CNDPSLDDPIQEYALFLCPTGPLLEKLQEFWRESKRQCAKNRAHEVFPHVTLCDFFTCE  
DQKVECLYEALKRAGDRLLGSFPTAVPLALHSSISYLGFFVSGSPADVIREFAMTFATEA  
SLLAGTSVSRFWIFSQVPGHGNLRLSNLTRASFSVSHYILQKYCSVKPCTKQLHLTLAHK  
FYPHHQRTEQLARAIPLGHSCQWTAALYSRDMRFVHYQTLRALFQYKPNVDELTLSPG  
DYIFVDPTQQDEASEGWVIGISQRTGCRGFLPENYTDRASESDTWVKHRMYTFSLATDLN  
SRKDGEASSRCSGEFLPQTARSLSSLQALQATVARKSVLVVRHGERVDQIFGKAWLQQCS  
TPDGKYRPNLNFPCSLPRRSRGIKDFENDPPLSSCGIFQSRIAGDALLDSGIRISSVFA  
SPALRCVQTAKLILEELKLEKKIKIRVEPGIFEWTKWEAGKTTPTLMSLEELKEANFNID  
TDYRPAFPLSALMPAESYQEYMDRCTASMVQIVNTCPQDTGVILIVSHGSTLDSCTRPLL  
GLPPRECGDFAQLVRKIPSLGMCFCENKEEGKWELVNPPVKTLTHGANAAFNWRNWISG  
N

>sp|Q04323|UBXN1\_HUMAN UBX domain-containing protein 1 OS=Homo sapiens GN=UBXN1 PE=1 SV=2

MAELTALESLEMGFPRGRAEKALALTGNQGIEAAMDWLMEHEDDPDVDEPLETPLGHIL  
GREPTSSEQGGLEGSGSAAGEGKPALSEEERQEQTMRMLELVAQKQREEREEREEREALER  
ERQRRRGQQLSARQRLQEDEMRRAAEERRREKAEELAAARQVRREKIERDKAERAKKYG  
GSVGSQPPPVAPPEPGVPSPSQEPPTKREYDQCRIQVRLPDGTSLTQTFRAREQLAAVR  
LYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQELGLVPSAVLIVAKKCP

>sp|P09936|UCHL1\_HUMAN Ubiquitin carboxyl-terminal hydrolase isozyme L1 OS=Homo sapiens GN=UCHL1 PE=1 SV=2



MLKPMEinPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSVPAPACALLLFLPLTAQHE  
NFRKKQIEELKGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSE  
TEKMSPEDRAKCFEKNEAIQAAHDAVAQEGQCRVDDKVNHFHILFNNVDGHLIELDGRMP  
FPVNHGASSEDTLKDAAKVCREFTEREQGEVRFSAVALCKAA

>sp|Q96RP3|UCN2\_HUMAN Urocortin-2 OS=Homo sapiens GN=UCN2 PE=1 SV=1  
MTRCALLLLMVLMLGRVLVVPVTPIPTFQLRPQNSPQTTPRPAASESPSAAPTWPWAAQS  
HCSPTRHPGSRIVLSLDVPIGLLQILLEQARARAAREQATTNARILARVGHC

>sp|Q969E3|UCN3\_HUMAN Urocortin-3 OS=Homo sapiens GN=UCN3 PE=1 SV=2  
MLMPVHFLLLLLLLLGGPRTGLPHKFYKAKPIFSCNLTALEAEKGQWEDASLLSKRSFH  
YLRSDASSGEEEGKEKKTPISGARGGARGTRYRYVSQAQPRGKPRQDTAKSPHRTKF  
TLSLDVPTNIMNLLFNIAKAKNLRAQAAANAHMAQIGRKK

>sp|P25874|UCP1\_HUMAN Mitochondrial brown fat uncoupling protein 1 OS=Homo sapiens GN=UCP1  
PE=1 SV=3

MGGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGECP TSSVIRYKGVLG  
TITAVVKTEGRMKLYSGLPAGLQRQISSASLRIGLYDTVQEFLTAGKETAPSLGSKILAG  
LTTGGVAVFIGQPTDEVVKVRLQAQSHLHGKPRYTGTYNAYRIIATTEGLTGLWKGTTPN  
LMRSVIINCTELVTDLMKEAFVKNNILADDVPCHLVSAIAGFCATAMSSPVDVVKTRF  
INSPPGQYKSVPCAMKVFTNEGPTAFFKGLVPSFLRLGSWNVIMFVCFEQLKRELSKSR  
QTMDCAT

>sp|Q6NVU6|UFSP1\_HUMAN Inactive Ufm1-specific protease 1 OS=Homo sapiens GN=UFSP1 PE=2  
SV=2

MGDKPPGFRGSRDWIGCVEASLCLAHFGGPQGRLCHVPRGVGLHGELERLYSHFAGGGGP  
VMVGGDADARSKALLGVCVGSGETEAYVLVLDPHYWGTPKSPSELQAAGWVGWQEVSAAFD  
PNSFYNLCLTSLSSQQQQRTLD

>sp|Q6UW78|UQCC3\_HUMAN Ubiquinol-cytochrome-c reductase complex assembly factor 3 OS=Homo  
sapiens GN=UQCC3 PE=1 SV=2

MDSLRLKMLISVAMLGAGAGVGYALLVIVTPGERRKQEMLKEMPLQDPRSREEAARTQQLL  
LATLQEAATTQENVAWRKNWMVGGEGGAGGRSP

>sp|Q14146|URB2\_HUMAN Unhealthy ribosome biogenesis protein 2 homolog OS=Homo sapiens  
GN=URB2 PE=2 SV=2

MAAVYSGISLKLKSKTTSWEDKCLKLAHFAWISHQCFLPNKEQVLLDWARQSLVAFYKKKL  
ELKEDIVERLWIYIDNILHSRKLQNLLKNGKTINLQISLVKIINERVAEFSLSGSQRNIC  
AVLRCCQGILSTPALAVIYTAKQELMVALLSQCWSACRQPEGAVVAQLFEVIHLALGHY  
LLILQQQVNPRAFGDVTALLQPCLVLRHLLSGGTWTQAGQGQLRQVLSRDIRSQIEAM  
FRGGIFQPELLSSYKEGLLDQQQGDVKTGAMKNLLAPMDTVLNRLVDAGYCAASLHTSVV  
ANSVALLYKFLDSYFKEGNQLLCFQVLPRLFGCLKISHLQEEQSKALSTSDWTTELLVV  
EQLLSVANNNIYNIAADRI RHEEAQFRFYRHVAELLINHAQAPIPAWFRCLKTLISLNH  
LILEPDLDDLASAWIDA EVTEFRTKKAQEALIRTVFQTYAKLRQVPRLFEEVLGVICRP  
AAEALRQPVLASGPSTVLSACLLELPPSQILDTWSLVLEKFQSLVLPYLQSDADMALKSL  
SLSLLLHCIMFNMRSLDSSSTPLPIVRRTQCMMERMMREL VQPLLALLPDTPGPEPELWLQ  
KVSDSVLLLSYTWAVQDAMFSLNCSQYHMSGPLIGVALEISNLPSLLPGVKTQHWKKIE  
KFTAQFSSLGTYCLEQLYLQMKRITLMQTSFRSEGAIQSLRCDAAFIIGSGRKS LNQRTT  
ASWDGQVGMVSGLTYPVAHWHLIVSNLTILISYLCPDVGYLASVLLRTLPMGKAQEVSI  
DEEAYITLEKISKAF LHSPLFPQMQLHSAFLTCVTTSCSSILCSGAQRDSGLVVSQQLPW

LFEKDHMVVGHWENRFKAGPEGIEPRGEIAQNLLSLVKSDFPIQLEGEQLESILGLLEV  
ISALQLDSLPPYHVHYFLVLLSMAVTKLGCSCSSSLALKFLTTCYQLLGYLQKGKSARS  
VFKIMYGSDFEVLVTSLFRASSRFLIEMDDPAWLEFLQVIGTFLEELMQMLIQMKLSLV  
LNRFKITAFSSSKPYTEAASSKQLENQNPQGRQLLLVSLTRLCHVLGPFLKEQKLGGQA  
PAALSELLQQVVLQTGAVLQLCSVPGARGWRLPSVLISSVSTLLEADLGQHCRDGGADIS  
QGSDRTLTSHVALYQGVYSQILLELPALAGHDQSFQAALQFLTFLFLAPELHPKKDSVFT  
SMFHSVRRVLADPEIPVQVTQDIEPHLGALFTQMLEVGTTEDLRLVMQCILQGLDVSNMW  
KADVQAVVSAVTLLRLLNCPLSGEKASLLWRACPQIVTALTLLNREASQEQPVSLTVVG  
PVLDLAALLRQGEAIGNPHHVSFAFSILLTVPLDHLKPLEYGSVFPRLHNVLSILQC  
HPKVMLKAIPSFLNSFNRLVFSVMREGRQKDKGSIDDLPTVLKCARLVERMYSHIAARAE  
EFAVSPFMVAQYVLEVQKVTLPAVKSLQEGIYLILDLCIEPDVQFLRASLQPGMRDI  
FKELYNDYLYKHAKHEGEKRYTA

>sp|Q9BTM9|URM1\_HUMAN Ubiquitin-related modifier 1 OS=Homo sapiens GN=URM1 PE=1 SV=1  
MAAPLSVEVEFGGGAELFDGIKKHRVTLPQGEEPWDIRNLLIWIKNLLKERPELFIQG  
DSVRPGILVLINDADWELLGELDYQLQDQDSVLFISTLHGG

>sp|Q969X6|UTP4\_HUMAN U3 small nucleolar RNA-associated protein 4 homolog OS=Homo sapiens  
GN=UTP4 PE=1 SV=1

MGEFKVHRVRFFNYVPSGIRCVAYNNQSNRLAVSRTDGTVEIYNLSANYFQEKFFPGHES  
RATEALCWAEGQRLFSAGLNGEIMEYDLQALNIKYAMDAFGGPIWSMAASPSGSQLLVGC  
EDGSVKLFQITPDKIQFERNFDRQKSRIKLSLWHPSGTHIAAGSIDYISVFDVKSGSAVH  
KMIVDRQYMGVSKRKCIVWGVAFSLDGTIIISVDSAGKVQFWSATGTLVKSHLIANADVQ  
SIAVADQEDSFVVGTAEGTVFHFQLVPVTSNSSEKQWVRTKPFQHHTHDVRTVAHSPTAL  
ISGGTDTHLVFRPLMEKVEVKNYDAALRKITFPHRCLISCSKKRQLLLFQFAHHELWRL  
GSTVATGKNGDTLPLSKNADHLLHLKTGPNENICSCISPCGSWIAYSTVSRFFLYRLNY  
EHDNISLKRVSMPAFLRSALQILFSEDSTKLFVASNQGALHIVQLSGGSFKHLHAFQPQ  
SGTVEAMCLLAVSPDGNWLAASGTSAGVHVYNVKQLKLHCTVPAYNFPVTAMAIAPNTNN  
LVIAHSDQQVFEYSIPDKQYTDWSRTVQKQGFHHLWLQRDTPITHISFHPKRPMHILLHD  
AYMFCIIDKSLPLPNDKTLNPFPTNESDVIRRRTAHAFKISKIYKPLLMDLLDERT  
LVAVERPLDDIIAQLPPPIKKKKFGT

>sp|O14607|UTY\_HUMAN Histone demethylase UTY OS=Homo sapiens GN=UTY PE=1 SV=2

MKSCAVSLTTAAVAFGDEAKKMAEGKASRESEESVSLTVEEREALGGMDSRLFGFVRLH  
EDGARTKTLLGKAVRCYESLILKAEGKVESDFFCQLGHFNLLLEDYSKALSAYQRYYSLQ  
ADYWKNAAFLYGLGLVYFYNAFHWAIAKAFQDVLVDPSPFCRAKEIHLRLGLMFKVNTDY  
KSSLKHFQLALIDCNPCTLSNAEIQFHIAHLYETQRKYHSAKEAYEQLLQTENLPAQVKA  
TVLQQLGWMHNMMDLVGDKATKESYAIQYLQKSLEADPNSGQSWYFLGRCYSSIGKVQDA  
FISYRQSIDKSEASADTWCSIGVLYQQNQPM DALQAYICAVQLDHGHAAWMDLGTLYE  
SCNQPDQAIKCYLNAARSKRCSNTSTLAARIKFLQNGSDNWGGQSLSHHPVQQVYSLCL  
TPQKLQHLEQLRANRDNLPAQKHQLEQLESQFVLMQQMRHKEVAQVRTTGIHNGAITDS  
SLPTNSVSNRQPHGALTRVSSVSQGPVRPACVEKLLSSGAFSAGCIPCGTSKILGSTDTI  
LLGSNCIAGESNGNVPYLQQNTHTLPHNHTDLNSSTEEPWRKQLSNSAQGLHKSQSSCL  
SGPNEEQPLFSTGSAQYHQATSTGIKKANEHLTLPSNSVPQGDADSHLSCHTATSGGQQG  
IMFTKESKPSKNRSLVPETSRHTGDTSNGCADVKGLSNHVHQLIADAVSSPNHGDSPLL  
IADNPQLSALLIGKANGVGTGTCDKVNNIHPAVHTKTDHSVASSPSSAISTATSPKST  
EQRSINSVTSLNSPHSGLHTVNGEGLGKSQSSTKVDLPLASHRSTSQILPSMSVSI CPSS

TEVLKACRNPGKNGLSNSCILLDKPPRPPTSPYPPLPKDKLNPPTPSIYLENKRDAFF  
PPLHQFCTNPKNPVTVIRGLAGALKLDLGLFSTKTLVEANNEHMVEVRTQLLPADENWD  
PTGTTKIWRCESNRSHTTIAKYAQYQASSFQESLREENEKRTQHKDHSNDESTSSSENSGR  
RRKGPFKTIKFGTNIDLSNKKWKLQLHELTKLPAFARVVSAGNLLTHVGHTILGMNTVQ  
LYMKVPGSRTPGHQENNNFCSVNINIGPGDCEWFVVPEDYWGVLNDFCEKNNLNFMLSSW  
WPNLEDLYEANVPVYRFIQRPGDLVWINAGTVHWVQAVGWCNNIAWNVGPLTACQYKLAV  
ERYEWNKLSVKSPVPMVHLSWNMARNIKVSDPKLFEMIKYCLLKILKQYQTLREALVAA  
GKEVIWHGRTNDEPAHYCSICEVEVFNLLFTNESNTQKTYIVHCHDCARKTSKSLENFV  
VLEQYKMEDLIQVYDQFTLALSLSSSS

>sp|Q6ZT98|TTL7\_HUMAN Tubulin polyglutamylase TTL7 OS=Homo sapiens GN=TTL7 PE=1 SV=2

MPSLPQEGVIQGPSPLDLNTELPYQSTMKRKVRKKKKGTITANVAGTKFEIVRLVIDEM  
GFMKTPDEDETSNLIWCDSAVQQEKISELQNYQRINHFPGMGEICRKDFLARNMTKMIKS  
RPLDYTFVPRTWIFPAEYTFQNYVKELKKKRKQKTFIVKPANGAMGHGISLIRNGDKLP  
SQDHLIVQEYIEKPFLEMEGYKFDLRIYILVTSCDPLKIFLYHDGLVRMGTEKYIPPNESN  
LTQLYMHLTNYSVNKHNEHFERDETENKSKRSIKWFTEFLQANQHDVAKFWSDISELVV  
KTLIVAEPHVLHAYRMCRPQGPPGSESVCFEVLGFDILLDRKLKPWLEINRAPSFQTDQ  
KIDYDVKRGVLLNALKLLNIRTSKRRNLAKQKAEARRLYGQNSIKRLLPGSSDWEQQR  
HQLERRKEELKERLAQVRKQISREEHENRHMGNRYRIYPPEDKALLEKYENLLAVAFQTF  
LSGRAASFQRELNNPLKRMKEEDILDLEQCEIDDEKLMGKTTKTRGPKPLCSMPESTE  
MKRPKYCSSDSSSYSSSSSESDENEKEEYQNKKREKQVTYNLKPSNHYKLIQQPSSIRR  
SVSCPRISISAQSPSSGDTRPFSQAQMISVSRRPTSASRSHSLNRASSYMRHLPHSNDACST  
NSQVSESLRQLKTKEQEDDLTSQTLFVLKDMKIRFPGKSDAESELLIEDIIDNWYHKT  
VASYWLIKLDVSKQRKVLDIVKTSIRTVLPRIWKVPDVEEVNLYRIFNRVFNRLWSRGQ  
GLWNCFCDSGSSWESIFNKSPEVVTPLQLQCCQRLVELCKQCLLVVYKYATDKRGSLSGI  
GPDWGNRYLLPGSTQFFLRTPTYNLKYNSPGMTRSNVLFTSRYGHL

>sp|Q5BVD1|TTMP\_HUMAN TPA-induced transmembrane protein OS=Homo sapiens GN=TTMP PE=1 SV=2

MDLAQPSQPVDELELSVLERQPEENTPLNGADKVFPSLDEEVPPAEANKESPWSSCNKNV  
VGRCKLWMIITSIFLGVITVIIIGLCLAAVTYVDEDENEILELSSNKTFFIMLKIPPECV  
AEEELPHLLTERLTDVYSTSPSLGRYFTSVEIVDFSGENATVTYDLQFGVPSDDENFMKY  
MMSEELVLGILLQDFRDQNIPGCESLGLDPTSLLLLYE

>sp|Q9C0H2|TTYH3\_HUMAN Protein tweety homolog 3 OS=Homo sapiens GN=TTYH3 PE=1 SV=3

MAGVSYAAPWWVSLHLRPHFDLSWEATSSQFRPEDTDYQQALLLLGAAALACLALDLLF  
LLFYSFWLCCRRRKSEEHLADCCCTAWCVIIATLVCSAGIAVGFGNGETSDGIHRATY  
SLRHANRTVAGVQDRVWDTAVGLNHTAEPQLTLERQLAGRPEPLRAVQRLQGLLETLLG  
YTAAIPFWRNTAVSLEVLAEQVDLYDWYRWLGYLGLLLLDVVICLLVLVGLIRSSKGILV  
GVCLLGVLALVISWGALGLELAVSVGSSDFCVDPDAYVTMVEEYSVLSGDILQYYLACS  
PRAANPFQQLSGSHKALVEMQDVVAELLRTVPWEQPATKDPLLRVQEVNLNGTEVNLQHL  
TALVDCRSLHLDYVQALTGFCYDGVGLIYLALFSFVTALMFSSIVCSVPHTWQQKRGPD  
EDGEEEAAPGRQAHDLSYRVHMPSLYSCGSSYGSETSIPAAAHTVSNAPVTEYMSQNAN  
FQNPRCENTPLIGRESPPPSYTSSMRAKYLATSQRPDSSGSH

>sp|Q9NX01|TXN4B\_HUMAN Thioredoxin-like protein 4B OS=Homo sapiens GN=TXNL4B PE=1 SV=1

MSFLLPKLTSKKEVDQAIKSTAELVVLRFGRDEDPVCLQLDDILSKTSSDLKMAAIYL  
VDVDQTAVYTQYFDISYIPSTVFFFNQHMKVYDYGSPDHTKFVGSFKTKQDFIDLIEVIY  
RGAMRGKLIVQSPIDPKNIPKYDILLYQDI

>sp|A2RUC4|TYW5\_HUMAN tRNA wybutosine-synthesizing protein 5 OS=Homo sapiens GN=TYW5 PE=1 SV=1

MAGQHLPVPRLEGVSREQFMQHLYPQRKPLVLEGIDLGPCTSKWTVDYLSQVGGKKEVKI  
HVAAVAQMDFISKNFVYRTLFPDQLVQRAAEKHKEFFVSEDEKYYLRSLGEDPRKDVA  
IRKQFPLLKGDIKFPEFFKKEEQFSSVFRISSPGLQLWTHYDVMNLLIQVTGKKRVVLF  
SPRDAQYLYLKGTKSEVLNIDNPDLAKYPLFSKARRYECSLEAGDVLFI PALWFHNVISE  
EFGVGVNIFWKHLPSECYDKTDTYGNKDPTAASRAAQILDRAKTLAELPEEYRDFYARR  
MVLHIQDKAYSKNSE

>sp|A6NCW7|U17L4\_HUMAN Inactive ubiquitin carboxyl-terminal hydrolase 17-like protein 4 OS=Homo sapiens GN=USP17L4 PE=3 SV=3

MGDDSLYLGGEWQFNHFSKLTSSRPDAAFAEIQRSTLPEKSPLSSETRVDLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYENASLQCLTYTLPLANYMLSREHSQTCQRP  
KCCMLCTMQAHITWALHSPGHVIQPSQALAAGFHRGKQEDVHEFLMFTVDAMKKACLP  
GHKQVDHHSKDTTLIHQIFGGCWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVKQALEQL  
VKPEELNGENAYHCGCLQRAPASNTLTLHTSAKVLILVLKRFSDVAGNKLAKNVQYPEC  
LDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHDGYFFSYVKAQEGQWYKMDDAEVTVC  
SITSVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRPATQGELKRDHPCLQV  
PELDEHLVERATEESTLDHWKFPQEQNKMKPEFNVRKVEGTLPPNVLVIHQSKYKCGMKN  
HHP

>sp|C9JJH3|U17LA\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 10 OS=Homo sapiens GN=USP17L10 PE=3 SV=1

MEDDSLYLGGEWQFNHFSKLTSSRPDAAFAEIQRSTLPEKSPLSCETRVDLCCDLAPVAR  
QLAPREKPPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYKPPLANYMLFREHSQTCHRH  
KGCMLCTMQAHITRALHIPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMRKACLP  
GHKQVDRHSKDTTLIHQIFGGYWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTLHNSAKVLILVLKRFDPVTGNKIAKNVQYPEC  
LDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHNGHYSSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGVEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRVEGTVPPDVLVIHQSKYKCRMKNHHP  
EQQSSLLNLSSTPTDQESMNTGTLASLRGRTRRSKGKNKHSKRALLVCQ

>sp|D6RCP7|U17LJ\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 19 OS=Homo sapiens GN=USP17L19 PE=3 SV=1

MEEDSLYLGGEWQFNHFSKLTSSRPDAAFAEIQRSTLPEKSPLSCETRVDLCCDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLP  
GHKQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQTNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSSLLKLSSTPTPHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|075643|U520\_HUMAN U5 small nuclear ribonucleoprotein 200 kDa helicase OS=Homo sapiens GN=SNRNP200 PE=1 SV=2

MADV TARSLQY EYKANSNLVLQADRSLIDRTRRDEPTGEVLSLVGKLEGTRMGDKAQR TK

PQMQEERRAKRRKRDEDRHDINKMKGYTLLSEgidemvgiiYKPKTKETRETYEVLLSFI  
QAALGDQPRDILCGAADEVLA VLKNEKLRDKERRKEIDLLLGQTDDTRYHVLVNLGKKIT  
DYGGDKETIQNMDDNIDETYGVNVQFESDEEEGEDDVYGEVREEASDDDMEGDEAVVRC  
SANL VASGELMSSKKKDLHPRDIDAFWLQRQLSRFYDDAIVSQKKADEVLEILKTASDDR  
ECENQLVLLLGFNTFDFIKVLRQHRMMILYCTLLASAQSEAEKERIMGKMEADPELSKFL  
YQLHETEKEDLIREERSRRERVRQSRMDTDLETMDLDQGGEALAPRQVLDLEDLVFTQGS  
HFMANKRCQLPDGSFRRQRKGYYEVHVPALPKPFGSEEQLLPVEKLPKYAQAGFEGFKT  
LNRIQSKLYRAALETDENLLLCAPTGAGKTNVALMCMLREIGKHINMDGTINVDDFKIIY  
IAPMRSLVQEMVGSFGKRLATYGITVAELTGDHQLCKEEISATQIIVCTPEKWDIITRKG  
GERTYTQLVRLIILDEIHLHDDRGPVLEALVARAIRNIEMTQEDVRLIGLSATLPNYED  
VATFLRVDPAGKLFYFDNSFRPVPLEQTYVGITEKKAIKRFQIMNEIVYEKIMEHAGKNQ  
VLV FVHRSKETGKTARAI RDMCLEKDTLGLFLREGSASTEVLRTEAEQCKNLELKDLLPY  
GFAIHHAGMTRVDRTLVEDLFADKHIQVLVSTATLAWGVNLPHTV I I KGTQVVSPEKGR  
WTELGALDILQMLGRAGRPQYDTKGEGILITSHGELQYYLSLLNQQLPIESQMVS KL PDM  
LNAEIVLGNVQNAKDAVNWLGYAYLYIRMLRSPTLYGISHDDLKGDPLLDQRRDLVHTA  
ALMLDKNNLVKYDKKTGNFQVTELGR IASHYYITNDTVQTYNQLLKPTLSEIELFRVFSL  
SSEFKNITVREEKLELQKLLERVPVPKESIEEPSAKINVLQAFISQLKLEGFALMAD  
MVYVTSAGRLMRAIFEIVLNRGWAQLTDKTLNLCKMIDKRMWQSMCPLRQFRKLPEEVV  
KKIEKNFPFERLYDLNHNEIGELIRMPKMGKTIHKYVHLFPKLELSVHLQPI TRSTLKV  
ELTITPDFQWDEKVGSSAEFWILVEDVDSEVILHHEYFLLKAKYAQDEHLITFFVPVFE  
PLPPQYFIRVVS DRWLS CETQLPV SFRHLILPEKYPPPTELLDLQPLPV SALNSAFESL  
YQDKFPFFNPIQTQVFNTVYNSDDNVFVGAPTGSGKTICAEFAILRMLLQSSEGR CVYIT  
PMEALAEQVYMDWYEFQDRLNKKVLLTGETSTD LKLLGKGNIISTPEKWDILSRRWK  
QRKNVQNINLFVVDVHLIGGENGPVLEVICSRMRYISSQIERPIRIVALSSSL SNAKDV  
AHLWGCSATSTFNHPNVRPVPLELHIQGFNISHTQTRLLSMAKPVYHAITKHSPKKPVI  
VFVPSRKQTRLT AIDILTTCAADIQRQRFLHCTEKDLIPYLEKLS DSTLKETLLNGVGYL  
HEGLSPMERRLVEQLFSSGAIQVVVASRSLCWGMNVA AHLVIIMDTQYYNGKIHAYVDYP  
IYDVLQMVGHANRPLQDDEGRCVIMCQGSKKDFFKKFLYEPLPVESHLDHCMHDFNAEI  
VTKT IENKQDAVDYLTWTFLYRRMTQNP NYYNLQGISHRHLS D H LSELVEQTLSDLEQSK  
CISIEDEMDVAPNLGMIAAYYYIN YTTIELFSMSLNAKTKVRGLIEIISNAAEYENIPI  
RHHEDNLLRQLAQKVPKLNPNKFNDPHVKTNLLLQAHL SRMQLS AELQSDTEEILSKAI  
RLIQACVDVLSSNGWLSPALAAMELAQMVTQAMWSKDSYLKQLPHFTSEHIKRCTDKGVE  
SVFDIMEMEDEERNALLQLTDSQIADVARFCNRYPNIELSYEVVDKDSIRSGGPVVVLVQ  
LEREEV TGPVIAPLFPQKREEGWWVVIGDAKSNLSISIKRLTLQQAKVKLDFVAPATG  
AHNYTL YFMSDAYMGCDQEYKFSVDVKEAETDS DSD

>sp|A6NDN8|UBIML\_HUMAN Putative ubiquitin-like protein FUBI-like protein ENSP00000310146  
OS=Homo sapiens PE=3 SV=2

MRGRRRAWRGAWRGGAADLSLLCPQVAYVRARELHTLEVTGLETVAQSKAHVASLEGLI  
PEDKVLLAGSPLQNEATLGQCQGEALTTLEVVGRR LGVHNV

>sp|P54578|UBP14\_HUMAN Ubiquitin carboxyl-terminal hydrolase 14 OS=Homo sapiens GN=USP14  
PE=1 SV=3

MPLYSVTVKWGKEKFEGVELNTDEPPMVFKAQLFALTGVQPARQKVMVKG GTLKDDDWGN  
IKIKNGMTLLMMGSADALPEEPSAKTVFVEDMTEEQLASAMELPCGLTNLGNTCYMNATV  
QCIRSVPELKDALKRYAGALRASGEMASQYITAALRDLFDSMDKTSSSIPPIILLQFLH

MAFPQFAEKGEQGQYLQQDANECWIQMMRVLQQKLEAIEDDSVKETDSSSSASAATPSKKK  
SLIDQFFGVFETTMKCTESEEEVTKGKENQLQLSCFINQEVKYLFTGLKLRLQEEITK  
QSPTLQRNALYIKSSKISRPLAYLTIQMVRFFYKEKESVNAKVLKDVKFPLMLDMYELCT  
PELQEKMVSFRSKFKDLEDKKVNQQPNTSDKKSSPQKEVKYEPFSFADDIGSNNGYYDL  
QAVLTHQGRSSSSGHYVSWVKRKQDEWIKFDDDKVSIVTPEDILRLSGGGDWHIAYVLLY  
GPRRVEIMEEESEQ

>sp|Q14157|UBP2L\_HUMAN Ubiquitin-associated protein 2-like OS=Homo sapiens GN=UBAP2L PE=1  
SV=2

MMTSVGTNRARGNWEQPQNQNQTQHKQRPQATAEQIRLAQMISDHNDADFEEKVKQLIDI  
TGKNQDECVIALHDCNGDVNRAINVLLEGNPDTHSWEMVGKKKGVSGQKDGQTESNEEG  
KENRDRDRDYSRRRGPPRRGRGASRGREFRGQENGLDGTKSGGPSGRGTERGRRGRGRG  
RGGSGRRGGRFSAQGMGTFPADYAEPANTDDNYGNSSGNTWNNTGHFEPDDGTSAWRTA  
TEEWGTEDWNEDLSETKIFTASNVSSVPLPAENVTTITAGQRIDLAVLLGKTPSTMENDSS  
NLDPSQAPSLAQLPLVFSNSKQTAISQPASGNTFSHHSMVSMLGKGFVDVGEAKGGSTTGS  
QFLEQFKTAQALAAQHSQSGSTTTSSWDMGSTTQSPSLVQYDLKNPSDSAVHSPFTK  
RQAFTPSSTMMEVFLQEKSPAVATSTAAPPPSSPLPSKSTSAPQMSPGSSDNQSSSPQP  
AQQKLKQKKKASLTSKIPALAVEMPGSADISGLNLQFGALQFGSEPVLSDYESTPTTSA  
SSSQAPSSLYTSTASESSSTISSNQSQESGYQSGPIQSTTYTSQNNAQPLYEQRSTQTR  
RYPSSISSSPQKDLTQAKNGFSSVQATQLQTTQSVGATGSAVKSDSPSTSSIPPLNETV  
SAASLLTTTNQHSSSLGGLSHSEEIPNTTTTQHSSTLSTQQNTLSSSTSSGRTSTSTLLH  
TSVESEANLHSSSTFTSTSTVSAPPPVSVSSSLNSGSSLGLSLGSNSTVTASTRSSV  
ATTSGKAPPNLPGPVPLLPNPYIMAPGLLHAYPPQVGYDDLQMLQTRFPLDYYSIPFP  
TPTTPLTGRDGLASNYPYSGDLTKFGRGDASSPAPATTLAQPPQNQTQTHHTTQQTFLNP  
ALPPGYSYTSLPYYTGVPGLPSTFYQYGPVFPVAPTSSKQHGVNVSVNASATPFQQPSGY  
GSHGYNTGVSVTSSNTGVPDISGSVYSKTQQSFEKQGFHSGTPAASFNLPSALGSGGPIN  
PATAAAYPPAPFMHILTPHQPHSQILHHHLQQDGQTGSGQRSQTSSIPQKPQTNKSAYN  
SYSWGAN

>sp|Q70CQ4|UBP31\_HUMAN Ubiquitin carboxyl-terminal hydrolase 31 OS=Homo sapiens GN=USP31  
PE=2 SV=2

MSKVTAPGSGPPAAASGKEKRSFSKRLFRSGRAGGGGAGGPGASGPAAPSSPSSPSSARS  
VGSFMSRVLKTSLTSLSHLSSEGAAPDRGGLRSCFPFGPAAAPTTPPCPPPPASPAPPACA  
AEPVPGVAGLRNHGNTCFMNATLQCLSNTELF AEYLALGQYRAGRPEPSPDPEQPAGRGA  
QQQGEVTEQLAHLVRALWTLEYTPQHSRDFKTIVSKNALQYRGNSQHDAQEFLLWLLDRV  
HEDLNHSVKQSGQPPLKPPSETDMMPEGSPFPVCSTFVQELFQAQYRSSLTCPHCQKQSN  
TFDPFLCISLPIPLPHTRPLYVTVVYQGKCSHCMRIGVAVPLSGTVARLREAVSMETKIP  
TDQIVLTEMYYDGFHRSFCDTDDLETVHESDCIFAFETPEIFRPEGILSQRGIHLNNLN  
HLKFGLDYHRLSSPTQTAAKQGKMDSPTSRAGSDKIVLLVCNRACTGQQGKRFGLPFVLH  
LEKTIAWDLLQKEILEKMKYFLRPTVCIQVCPFSLRVSVVVGITYLLPQEEQPLCHPIVE  
RALKSCGPGGTAHVKLVEWDKETRDFLFVNTED EYIPDAESVRLQREHHHPQTCTLSQ  
CFQLYTKEERLAPDDAWRCPHCKQLQQGSITLSLWTLPDVLI IHLKRFRQEGDRMKLQN  
MVKFPLTGLDMTPHVVKRSQSSWSLPSHWSPWRRPYGLGRDPEDYIYDLYAVCNHHGTMQ  
GGHYTAYCKNSVDGLWYCFDDSDVQQLSEDEVCTQTAYILFYQRRTAIPSWSANSSVAGS  
TSSSLCEHWVSRLPGSKPASVTSAASSRRTSLASLSESVEMTGERSEDDGGFSTRPFVRS  
VQRQSLSSRSSVTSPLAVNENCMRPSWSLSAKLQMRSNSPSRFSGDSP IHSSASTLEKIG

EAADDKVSI SCFGSLRNLS SSYQEP S DSHSRREHKAVGRAPLAVMEGVFKDES DTRRLNS  
SVVD TQSKHSAQGDRLPPLSGPFDNNNQIAYVDQSDSVDSSPVKEVKAPSHPGSLAKKPE  
STTKRSPSSKGTSEPEKSLRKGRPALASQESSLSSTSPSSPLPVKVS LKPSRSRSKADSS  
SRGSGRHSSPAPAQPKKESSPKSQDSVSSPSPQKQKSASALTYTASSTS AKKASGPATRS  
PFPPGKSRTSDHSLSREGSRQSLGSDRASATSTSKPNSPRVSQARAGEGRGAGKHVRSSS  
MASLRSPSTSIKSGLRDSKSEDKGLSFFKSALRQKETRRSTD LGKTALLSKKAGGSSVK  
SVCKNTGDDEAERGHQPASQQP NANTTGKEQLVTKDPASAKHSLLSARKSKSSQLDSGV  
PSSPGGRQSAEKSSKKLS SSMQTSARPSQKPQ

>sp|Q8NB14|UBP38\_HUMAN Ubiquitin carboxyl-terminal hydrolase 38 OS=Homo sapiens GN=USP38  
PE=1 SV=2

MDKILEGLVSSSHPLPLKRVIVRKVVESAEHWLDEAQCEAMFDLTTRLILEGQDPFQRQV  
GHQVLEAYARYHRPEFESFFNKTFVLGLLHQGYHSLDRKDVAILDYIHNG LKLIMSCPSV  
LDLFSLLQVEVLRMVCERPEPQLCARLSDLLTDFVQCIPKGKLSITFCQQLVRTIGHFQC  
VSTQERELREYVSQVTKVSNLLQNIWKAEPATLLPSLQEVFASISST DASFEPSVALASL  
VQHIPLQMITVLIRSLTTPNVKDASMTQALCRMIDWLSWPLAQHVDTWVIALLKGLAAV  
QKFTILIDVTLLKIELVFNRLWFPLVRPGALAVLSHMLLSFQHSPEAFHLIVPHVNVLVH  
SFKNDGLPSSSTAFLVQLTELIH CMMYHYS GFDLYEPILEAIKDFPKPSEEKIKLILNQS  
AWTSQSNLSASCLSRLSGKSETGKTGLINLGNTCYMNSVIQALFMATDFRRQVLSLNLNG  
CNSLMKKLQHLFAFLAHTQREAYAPRIFFEASRPPWFTPRSQQDCSEYLRFLDLRLHEEE  
KILKVQASHKPSEILECSETSLQEVASKAAVLTETPTSDGEKTLIEKMFGGKLRTHIRC  
LNCRSTSQKVEAFTDLSLAFCPSSSLENMSVQDPASSPSIQDGGLMQASVPGPSEEPVY  
NPTTAAFI CDSL VNEKTIGSPPNEFYCSENTSVPNESNKILVNKDVPQKPGGETTPSVTD  
LLNYFLAPEILTDGNQYYCENCASLQNAEKTMQITEEPEYLILTLRFSYDQKYHVRRKI  
LDNVSLPLVLELPVKRITSFSSLSSESWSVDVDFTDLSENLAKKLKPSGTDEASCTKLVPY  
LLSSVVVHSGISSES GHYYSYARNITSTDSSYQMYHQSEALALASSQSHLLGRDSPSAVF  
EQDLENKEMSKEWFLFNDSRVTFTSFQSVQKITSRFPKDTAYVLLYKKQHSTNGLSGNNP  
TSGLWINGDPPLQKELMDAITKDNKLYLQEQLNARARALQAASASC SFRPNGFDDNDPP  
GSCGPTGGGGGGGFNTVGRLVF

>sp|Q9Y6I4|UBP3\_HUMAN Ubiquitin carboxyl-terminal hydrolase 3 OS=Homo sapiens GN=USP3  
PE=1 SV=2

MECPHLSSSVCIAPDSAKFPNGSPSSWCCSVCRSNKSPWVCLTCSSVHCGRYVNGHAKKH  
YEDAQVPLTNHKKSEKQDKVQHTVCMDCSSYSTYCYRCDDFVNDTKLGLVQKVREHLQN  
LENSAFTADRHKKRKLLENSTLNSKLLKVNGSTTAICATGLRNLGNTCFMNAILQSL SNI  
EQFCCYFKELPAVELRNKGTAGRRTYHTRSQGDNNVSLVEEFRKTL CALWQGSQTAFSPE  
SLFYVVWKIMP NFRGYQQQDAHEFMRYLLDHLHLELQGGFNGVSR SAILQENSTLSASNK  
CCINGASTVVTAIFGGILQNEVNCLICGTESRKFDPFDLSDIPSQFRSKRSKNQENGP  
VCSLRDCLRSFTDLEELDETELYMCHKCKKKQKSTKKFWIQKLPKVLC LHLKRFHW TAYL  
RNKVDTYVEFPLRGLDMKCYLLEPENSGPESCLYDLAAVVVHHGSGVGS GHYTAYATHEG  
RWFHFNDSTVTLTDEETVVKAKAYILFYVEHQAKAGSDKL

>sp|Q3LFD5|UBP41\_HUMAN Putative ubiquitin carboxyl-terminal hydrolase 41 OS=Homo sapiens  
GN=USP41 PE=2 SV=2

MDGVLFRAHQCQYVHPCVHVYTVGLMDPLCERKEKASKQERENPLAHLAAWGLVGLHNI  
GQTCCNL SLIQFVMNVDFARILKRITVPRGADEQRRSVPFQMLLLLEKMQDSRQKAVWP  
LELAYCLQKYNVPLFVQHDAALY LKLNLIKDQIADVHLVERLQALYMIRMKDSLICLD

CAMESSRNSSMLTLRLSFFDVS KPLKTLEDALHCFQPRELSSKSKFCENC GKKT RGK  
QVLKLTHLPQTLTIHLMRFSIRNSQTRKICHSLYFPQSLDFSQILPMKRESCDAEEQSGG  
QYELFAVIAHVGMADSGHYCVYIRNAVDGKWFCFND SNICLVSWEDIQCTYGNPNYHW

>sp|Q70EL4|UBP43\_HUMAN Ubiquitin carboxyl-terminal hydrolase 43 OS=Homo sapiens GN=USP43  
PE=1 SV=2

MDLGPDAAGGGPLAPRPRRRSLRRLFSRFLALGSRSRPGDSPRPQPGHCDGDGEGG  
FACAPGPVPAAPGSPGEERPPGPQQLQLPAGDGARPPGAQGLKNHGNTCFMNAV VQCLS  
NTDLLAEFLALGRYRAAPGRAEVTEQLAALVRALWTREYTPQLSAEFKNAVSKYGSQFQG  
NSQHDALEFLWLDRVHEDLEGSSRGPVSEKLPPEATKTS ENCLSPSAQLPLGQSFVQS  
HFQAQYRSSLTCPHCLKQSN TFDPF LCVSLPIPLRQTRFLSVTLVFPSKSRFLRVGLAV  
PILSTVAALRKMVAEEGGVPADEVILVELYPSGFQRSFFDEEDLNTIAEGDNVYAFQVPP  
SPSQGTLSAHPLGLSASPRLAAREGQRFSLSLHSESKVLILFCNLVSGGQASRF GPPFL  
IREDRAVSWAQLQQSILSKVRHLMKSEAPVQNLGSLFSIRVVGLSVACSYLSPKDSRPLC  
HWAVDRVLHLRRPGGPPHVKLAVEWDSSVKERLFGSLQEERAQDADSVWQQQAHQQHSC  
TLDECFQFYTKEEQLAQDDAWKCPHCQVLQQGMVKLSLWTLPDILIIHLKRFCQVGERRN  
KLSTLVKFPLSGLNMAPHVAQRSTSPEAGLPWPSWKQPDCLPTSYPLDFLYDLYAVCNH  
HGNLQGGHYTAYCRNSLDGQWYSYDDSTVEPLREDEVNTRGAYILFYQKRNSIPPWSASS  
SMRGSTSSSLSDHWLLRLGSHAGSTRGSLLSWSSAPCPSLPQVPD SPIFTNSLCNQEKG  
LEPRRLVRGVKGRSISMKAPTTSRAKQGPFKTMPLRWSFGSKEKPPGASVELVEYLESRR  
RPRSTSQSIVSLLTGTADEK SASPRSNVALPANSEDGGRAIERGPAGVPCPSAQPNHC  
LAPGNSDGPNTARKLKENAGQDIKLPRKFDLPLTMPSVEHEKPARPEGQKAMNWKESFQ  
MGSKSSPPSPYMGFSGNSKDSRRGTSELDRPLQGTLTLLRSVFRKKENRRNERAEVSPQV  
PPVSLVSGGLSPAMDGQAPGSPPALRIPEGLARGLGSRLERDVWSAPSSLRLPRKASRAP  
RGSALGMSQRTVPGEQASYGTFQRVKYHTLSLGRKKTLPES SF

>sp|O00124|UBXN8\_HUMAN UBX domain-containing protein 8 OS=Homo sapiens GN=UBXN8 PE=1 SV=2

MASRGVVGIFFLSAVPLVCLERRGIPDIGIKDFLLLCGRILL LLLALLTLIISVTTSWL N  
SFKSPQVYLKEEEEKNEKRQKLVRKKQQAQGEKASRYIENVLKPHQEMKLRKLEERFYQ  
MTGEAWKLSSGHKLGDEGTSQTSFETS NREAAKSQNL PKPLTEFPSPA EQPTCKEIPDL  
PEEPSQTAEVVTVALRCPSGNLRRRFLKSYSSQVLF DWMTRIGYHISLYSLSTSFP RR  
PLAVEGGQSLEDIGITVDTVLILEEKEQTN

>sp|Q9HA47|UCK1\_HUMAN Uridine-cytidine kinase 1 OS=Homo sapiens GN=UCK1 PE=1 SV=1

MASAGGEDCESPAPEADRP HQRPFLIGVSGGTASGKSTVCEKIMELLGQNEVEQRQRKV V  
ILSQDRFYKVLTAEQKAKALKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVPTYDFVTH  
SRLPETTVVYPADVLFEGILVFYSQEIRDMFHLRLFVD TSDSVRLSRRVLRDVRRGRDL  
EQILTQYTTFVKPAFEFCLPTKKYADVII PRGVDNMVAINLIVQHIQDILNGDICKWHR  
GGSNGRSYKRTFSEPGDHPGMLTSGKRSHLESSSRPH

>sp|Q8WVF2|UCMA\_HUMAN Unique cartilage matrix-associated protein OS=Homo sapiens GN=UCMA  
PE=2 SV=2

MTWRQAVLLSCFSAVVLLSMLREGTSVSVGTMQMAGEEASEDAKQKIFMQESDASNFLKR  
RGKRSPKSRDEVNVENRQKL RVDEL RREYEEQRNEFENFVEEQNDEQEERSREAVEQWR  
QWHYDGLHPSYLYNRHHT

>sp|Q8IX04|UEVLD\_HUMAN Ubiquitin-conjugating enzyme E2 variant 3 OS=Homo sapiens GN=UEVLD  
PE=1 SV=2

MEFDCEGLRRLLGKYKFRDLTVEELRN VNVFFPHFKYSMDTYVFKDSSQKDLLNFTGTIP



VMYQGNTYNIPIRFWILDSPFPAPPICFLKPTANMGILVGKHVDAQGRIYLPYLQNSHP  
KSVIVGLIKEMIAKFQEELPMYSLSSSDEARQVDLLAYIAKITEGVSDTNSKSWANHENK  
TVNKITVVGGEGLIACTLAISAKGIADRLVLLDLSEGTGATMDLEIFNLPNVEISKDL  
SASAHSKVVIFTVNSLGSSQSYLDVVQSNVDMFRALVPALGHYSQHSVLLVASQPVEIMT  
YVTWKLSTFPANRVIGIGCNLDSQRLQYIIITNVLKAQTSQKEVWVIGEQQGEDKVLTWSGQ  
EEVVSHTSQVQLSNRAMELLRVKQQRWSVGLSVADMVDSIVNNKKKVHSVSALAKGYD  
INSEVFLSLPCILGTNGVSEVIKTTLKEDTVTEKLQSSASSIHSLQQQLKL

>sp|Q9NYU2|UGGG1\_HUMAN UDP-glucose:glycoprotein glucosyltransferase 1 OS=Homo sapiens  
GN=UGGT1 PE=1 SV=3

MGCKGDASGACAAGALPVTGVCYKMGVLVVLTVLWLFSSVKADSKAITTSLTTKWFSTPL  
LLEASEFLAEDSQEFWNFVEASQNIQSSDHDGTDYSYYHAILEAAFQFLSPLQQNLKF  
CLSLRSYSATIQAQQIAADEPPPEGCNSFFSVHGKKTCESDTLEALLLTASERPKPLLF  
KGDHRYPSNPESPVVIFYSEIGSEEFNFHRQLISKSNAGKINYVFRHYIFNPRKEPVY  
LSGYGVELAIKSTEYKAKDDTQVKGTEVNTTVIGENDPIDEVQGFLFGKLRDLHPDLEGQ  
LKLRLKHLVESTNEMAPLKVWQLQDLSFQTAARILASPVELALVVMKDSLQNFPTKARAI  
TKTAVSSELRTVEENQKYFKGTGLQPGDSALFINGLHMDLDTQDIFSLFDVLRNEARV  
MEGLHRLGIEGLSHNVKLNIQSEADYAVDIRSPAISWVNNLEVDSRYNSWPSSLQEL  
LRPTFGVIRQIRKNLHNMVFIVDPAHETTAELMNTAEMFLSNHIPLRIGFIFVVDNSED  
VDGMQDAGVAVLRAYNYVAQEVDDYHAFQTLTHIYNKVRTGEKVKVEHVVSVLEKKYPYV  
EVNSILGIDSAYDRNRKEARGYYEQTGVGPLPVVLFNGMPFEREQDPDELETITMHKIL  
ETTTFFQRAVYLGELPHDQDVVEYIMNQPNVPRINSRILTAERDYLDTASNNFFVDDY  
ARFTILDSQGKTAAVANSNNYLTKKGMSKEIYDDSFIRPVTFWIVGDFDSPSGRQLLYD  
AIKHQKSSNNVRISMNNPAKEISYENTQISRAIWAALQTQTSNAAKNFITKMAKEGAAE  
ALAAGADIAEFSVGGMDFSLFKEVFESSKMDFILSHAVYCRDVLKLLKGGQRAVISNGRII  
GPLEDSELFNQDDFHLENIILKTSGQKIKSHIQQLRVEEDVASDLVMKVDALLSAQPKG  
DPRIEYQFFEDRHSIAIKLRPKEGETYFDVAVVDPVTREARLAPLLLVLAQLINMNLRV  
FMNCQSKLSDMPLKSFYRYVLEPEISFTSDNSFAKGPIAKFLDMPQSPLFTLNLNTPESW  
MVESVRTPYDLNIIYLEEVDVSVAAEYELVLLLEGHCYDITTGQPPRGLQFTLGTSANP  
VIVDTIVMANLGYFQLKANPGAWILRLRKGSEDIYRIYSHDGTSPPDADDEVVIVLNNF  
KSKIIKVKVQKKADMVNEDLLSDGTSENESEGFWDSEFKWGTGQKTEEVKQDKDDIINIFS  
VASGHLYERFLRIMMLSVLKNTKTPVKFWFLKNYLSPTFKEFIPYMANEYNFQYELVQYK  
WPRWLHQTEKQRIIIGYKILFLDVLFLPLVVDKFLFVDADQIVRTDLKELRDFNLDGAPY  
GYTPFCDSRREMDGYRFWKSGYWASHLAGRKYHISALYVVDLKKFRKIAAGDRLRGQYQG  
LSQDPNSLSNLDQDLPNMIHQVPIKSLPQEWLWCETWCDDASKKRAKTIDLCNNPMTKE  
PKLEAAVRIVPEWQDYDQEIQLQIRFQKEKETGALYKEKTKEPSREGPQKREEL

>sp|Q9NYU1|UGGG2\_HUMAN UDP-glucose:glycoprotein glucosyltransferase 2 OS=Homo sapiens  
GN=UGGT2 PE=1 SV=4

MAPAKATNVVRLLLGSTALWLSQLGSGTVAASKSVTAHLAAKWPETPLLLEASEFMAEES  
NEKFWQFLETVQELAIYKQTESDYSYYNLILKKAGQFLDNLHINLLKFAFSIRAYSPATQ  
MFQQIAADEPPPDGCNAFVVIHKKHTCKINEIKKLLKKAASRTRPYLFKGDHFKPTNKEN  
LPVVILYAEMGTRTFSAFHKVLSEKAQNEEILYVLRHYIQKPSSRKMYLSGYGVELAIKS  
TEYKALDDTQVKTVTNTTVEDETETNEVQGFLFGKLKEIYSDLRDNLTAQKYLIESNKQ  
MMPLKVVWELQDLSFQAASQIMSAPVYDSIKLMKDISENFPIKARSLTRIAVNQHMREEIK  
ENQKDLQVRFKIQPGDARLFINGLRVDMVDYDAFSILDMLKLEGKMMNGLRNGLINGEDM

SKFLKLNHIWEYTYVLDIRHSSIMWINDLENDLYITWPTSCQKLLKPVFPGSVPSIRR  
NFHNLVLFIDPAQEYTLDFIKLADVFSHEVPLRIGFVFIINTDDEVDGANDAGVALWRA  
FNYIAEEFDISEAFISIVHMYQVKVKDQNILTVDNVKSVLQNTFPHANIWDILGIHISKYD  
EERKAGASFYKMTGLGPLQALYNGEPFKHEEMNIKELKMAVLQRMMDASVYLQREVFLG  
TLNDRNTAIDFLMDRNNVVPRINTLILRTNQYLNLISTSVTADVEDFSTFFFLDSQDKS  
AVIAKNMYYLTQDDESIISAVTLWIIADFDKPSGRKLLFNALKHMKTSVHSRLGIIYNPT  
SKINEENTAISRGLAAFLTQKNMFLRSFLGQLAKEEIIATAIYSGDKIKTFLIEGMDKNA  
FEKKYNTVGVNIFRTHQLFCQDVLKLRPGEMGIVSNGRFLGPLDEDFYAEDFYLLEKITF  
SNLGEKIKGIVENMGINANNMSDFIMKVDALMSSVPKRASRYDVTFLRENHSHVIKTNPQE  
NDMFFNVIAIVDPLTREAQKMAQLLVVLGKIINMKIKLFMNCRGRLSEAPLESFYRFVLE  
PELMSGANDVSSLGPVAKFLDIPESPLLILNMITPEGWL VETVHSNCDLDNIHLKDTEKT  
VTAEEYLEYLLLEGQCFDKVTEQPPRGLQFTLGTKNPAVVDTI VMAHHGYFQLKANPGA  
WILRLHQKSEDIYQIVGHEGTD SQADLEDIIVVLNSFKSKILKVVKKETDKIKEDILT  
DEDEKTKGLWDSIKSFTVSLHKNKKEKDV LNIFSVASGHLYERFLRIMMLSVLRNTKTP  
VKFWLLKNYLSPTFKEVIPHMAKEYGFYELVQYRWPRWL RQQTERQRIIWGYKILFLDV  
LFPLAVDKIIFVDADQIVRHDLKELRDFDLGAPYGYTPFCDSRREMDGYRFWKTGYWAS  
HLLRRKYHISALYVVDLKKFRIGAGDRLRSQYQALSQDPNSLSNLDQDLPNNMIYQVAI  
KSLPQDWLWCETWCDESKQRAKTIDLCNNPKTKESKLKAAAARIVPEWVEYDAEIRQLLD  
HLENKKQDTILTHDEL

>sp|P11172|UMPS\_HUMAN Uridine 5'-monophosphate synthase OS=Homo sapiens GN=UMPS PE=1 SV=1

MAVARAALGPLVTGLYDVQAFKFGDFVLKSGLSSPIYIDLRGIVSRPRLLSQVADILFQT  
AQNAGISFDTVCGVPYTALPLATVICSTNQIPMLIRRKETKDYGTKRLVEGTINPGETCL  
IIEDVVTSGSSVLETVEVLQKEGLKVTD AIVLLDREQGGKDKLQAHGIRLHSVCTLSKML  
EILEQQKKVDAETVGRVKRFIQENVFVAANHNGSPLSIKEAPKELSFGARAELPRIHPVA  
SKLLRLMQKKETNLCLSADVSLARELLQLADALGPSICMLKTHVDILNDFTLDMKELIT  
LAKCHEFLIFEDRK FADIGNTVKKQYEGGIFKIASWADLVNAHVPGSGVVKGLQEVLGP  
LHRGCLLIAEMSSTGSLATGDYTRAAVRMAEEHSEFVVGFI SGRVSMKPEFLH LTPGVQ  
LEAGGDNLGQQYNSPQEVIGKRGSDIIVGRGIISAADRL EAAEMYKAAWEAYLSRLGV

>sp|Q96BW1|UPP\_HUMAN Uracil phosphoribosyltransferase homolog OS=Homo sapiens GN=UPRT  
PE=1 SV=1

MATELQCPDSMPCHNQVNSASTPSPEQLRPGDLILDHAGGNRASRAKVILLTGYAHSSL  
PAELDSGACGGSSLNSEGNSGSGDSSSYDAPAGNSFLEDCELSRQIGAQLKLLPMNDQIR  
ELQTIIRDKTASRGDFMFSADRLIRLVVEEGLNQLPYKECMVTTPTGYKYEGVKFEKGNC  
GVSIMRSGEAMEQGLRDCCRSIRIGKILIQSDEETQRAKVYYAKFPDIIYRRKVLLMYPI  
LSTGNTVIEAVKVLIEHGVQPSVILLSLFSTPHGAKSIIQEFPEITILTTEVHPVAPTH  
FGQKYFGTD

>sp|P63027|VAMP2\_HUMAN Vesicle-associated membrane protein 2 OS=Homo sapiens GN=VAMP2  
PE=1 SV=3

MSATAATAPPAAGEGGPPAPPPNLT SNRRLLQQTQAQVDEVVDIMRVNVDKVLERDQKL  
SELDDRADALQAGASQFETSAAKLKRKYWWKNLMMIILGVICAILIIIIIVYFST

>sp|Q9ULK5|VANG2\_HUMAN Vang-like protein 2 OS=Homo sapiens GN=VANGL2 PE=1 SV=2

MDTESQYSGYSYKSGHSRRKRRDRRDRHSKSRDGGRGDKSVTIQAPGEPLLDNESTR  
GDERDDNWGETTTVTGTSEHSISHDDLTRIAKDMEDSVPLDCSRHLGVAAGATLALLSF  
LTPLAFLLLPPLLWREELEPCGTACEGLFISVAFKLLILLGSWALFFRRPKASLPRVFV

LRALLMVLVFLLVVSYWLFYGVRIILDARERSYQGQVQFAVSLVDALLFVHYLAVVLELR  
QLQPQFTLKVVRSTDGASRFYNVGHLSIQRVAVWILEKYHDFPVYNPALLNLPKSVLAK  
KVSGFKVYSLGEEENSTNSTGQSRVIAAAARRRDNHNEYYYEEAEHERRVRKRRARLV  
VAVEEAFTHIKRLQEEEQKNPREVMDPREAAQAIFASMARAMQKYLRTTKQPYHTMESI  
LQHLEFCITHDMPKAFRLERYLAAGPTIQYHKERWLAKQWTLVSEEPVTNGLKDGIVFLL  
KRQDFSLVVSTKKVPFFKLSEEFVDPKSHKFMRLQSETSV

>sp|Q99536|VAT1\_HUMAN Synaptic vesicle membrane protein VAT-1 homolog OS=Homo sapiens  
GN=VAT1 PE=1 SV=2

MSDEREVAEAAATGEDASSPPPKTEAASDPQHAPAASEGAAAAAASPPLLRLCLVLTGFGGYD  
KVKLQSRPAAPPAPGPGQLTLRLACGLNFADLMARQGLYDRLPPLPVTGMEGAGVVIA  
VGEGVSDRKAGDRVMVLNRSQMWQEEVTVPSVQTFLIPEAMTFEEAAALLVNYITAYMVL  
FDFGNLQPGHSLVHMAAGGVMAAVQLCRTVENVTVFGTASASKHEALKENGVTHTPIDY  
HTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMA  
LARTWWNQFSVTALQLLANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHKPHIDS  
VWPFKQVADAMKQMQEKKNVGKVLVPGPEKEN

>sp|P36543|VATE1\_HUMAN V-type proton ATPase subunit E 1 OS=Homo sapiens GN=ATP6V1E1 PE=1  
SV=1

MALSDADVQKQIKHMMAFIEQEANEKAEIDAKAEFEFNIEKGRVLTQRLKIMEYYEKK  
EKQIEQQKKIQMSNLMNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLV  
LQGLYQLLEPRMIVRCRKQDFPLVKAQVKAIPMYKIATKNDVDVQIDQESYLPEDIAGG  
VEIYNGDRKIKVSNLTLESRLDLIAQQMMPEVRGALFGANANRKFLL

>sp|Q13432|U119A\_HUMAN Protein unc-119 homolog A OS=Homo sapiens GN=UNC119 PE=1 SV=1

MKVKKGGGGAGTATESAPGPSQSVAPIQPPAESESGSESEPDAGGPRPGPLQRKQPI  
GPEDVLGLQRITGDYLCSPENIYKIDFVRFKIRDMSGTVLFEIKKPPVSRPILNRRD  
LDPNAGRFRVRYQFTPAFLRLRQVGATVEFTVGDKPVNNFRMIERHYFRNQLKSDFDFHG  
FCIPSSKNTCEHIYDFPPLSEELISEMIRHPYETQSDSFYFVDDRLVMHNKADYSYSGTP

>sp|Q6QN14|U17L6\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 6 OS=Homo  
sapiens GN=USP17L6P PE=1 SV=2

MEDDSLVLRGWQFNHFSKLTSSRPDAFAEIQRSTLPEKSPLSCETRVLDLDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQGHVIQPSQALAAAGFHRGKQEDAHEFLMFTVDAMKKACLPQH  
KQVDHHSKDTTLIHQIFGGYWRSQIKLHCHGISDTFDPYLDIALDIQAAQSVQQAQLEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGSED

>sp|D6RJB6|U17LK\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 20 OS=Homo  
sapiens GN=USP17L20 PE=3 SV=1

MEDDSLVLGGWQFNHFSKLTSSRPDAFAEIQRSTLPEKSPLSCETRVLDLDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQGHVIQPSQALAAAGFHRGKQEDAHEFLMFTVDAMKKACLPQH  
KQVDHHSKDTTLIHQIFGGYWRSQIKLHCHGISDTFDPYLDIALDIQAAQSVQQAQLEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQPNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL

DEHLVERATQESTLDHWKFLQEQNKTKEFNVKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSSLLNLSSTTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|PODN76|U2AF5\_HUMAN Splicing factor U2AF 35 kDa subunit-like protein OS=Homo sapiens  
GN=U2AF1L5 PE=1 SV=1

MAEYLASIFGTEKDKVNCSEFYFKIGACRHGDRCSRLHNKPTFSQTIALLLNIYRNPQNSSQ  
SADGLRCAVSDVEMQEYHDEFEEVFTEMEEKYGEVEEMNVCDNLGDHLVGNVYVKFRRE  
EDAEKAVIDLNNRWFNGQPIHAELSPVTDFREACCRQYEMGECTRGGFCNFMHLKPISRE  
LRRELYGRRRKKHRSRSRERRSRSDRGRGGGGGGGGGGRRERDRRRSRDRERSGRF

>sp|P49459|UBE2A\_HUMAN Ubiquitin-conjugating enzyme E2 A OS=Homo sapiens GN=UBE2A PE=1  
SV=2

MSTPARRRLMRDFKRLQEDPPAGVSGAPSENNIMVWNAVIFGPEGTPFEDGTFKLTIEFT  
EEYPNKPPTVRFVSKMFHPNVYADGSICLDILQNRWSPTYDVSSILTSIQSLLDEPNPNS  
PANSQAAQLYQENKREYEKRVSAIVEQSWRDC

>sp|000762|UBE2C\_HUMAN Ubiquitin-conjugating enzyme E2 C OS=Homo sapiens GN=UBE2C PE=1  
SV=1

MASQNRDPAATSVAAARKGAEPSSGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLF  
KWVGTIHGAAGTVYEDLRYKLSLEFPSPGYPNAPTVMKFLTPCYHPNVDQGNICLDILKE  
KWSALYDVRTILLSIQSLLGEPNIDSPLNTHAAELWKNPTAFKKYLQETYSKQVTSQEP

>sp|Q5VVX9|UBE2U\_HUMAN Ubiquitin-conjugating enzyme E2 U OS=Homo sapiens GN=UBE2U PE=1  
SV=1

MHGRAYLLLRHDFCDLKENNYKGITAKPVSEDMMEWEVEIEGLQNSVWQGLVFQLTIIHFT  
SEYNYAPPVVKFITIPFHPNVDPHGTQPCIDFLDNPEKWNTNYTLSSILLALQVMSNPV  
LENPVNLEAARILVKDESLYRTILRLFNRPLQMKDDSQELPKDPRKCIRPIKTTSFSDYY  
QTWSRIATSKATEYYRTPLLKVPNFIGQYYKWKMDLQHQKEWNLKYSVIKWLARKRMP  
HEVTHSMEEIKLCPTLIPTTDEIFLESPTAINSITDIYETEEGWKSDTSLYENDTDEPR  
EEEVEDLISWTNTLNTNTSED

>sp|Q9H832|UBE2Z\_HUMAN Ubiquitin-conjugating enzyme E2 Z OS=Homo sapiens GN=UBE2Z PE=1  
SV=2

MAESPTTEAATAGAGAAGPGASSVAGVVGVS GSGGGFGPPFLPDVWAAAAAAGGAGGPGS  
GLAPLPLPPSAAAHGAALLSHWDPTLSSDWDGERTAPQCLLRIRKRDIMSIYKEPPPGMF  
VVPDVTDMTKIHALITGPFDTPEGGFFLVFRCPPDYIHPPRVKLMTTGNNTVRFNPN  
FYRNGKVCLSIGLTWTPAWSPAQSISVLSISIQSLMTENPYHNEPGFEQERHPGDSKNY  
NECIRHETIRVAVCDMMEGKCPCEPLRGVMEKSFLEYDYFYEVACKDRLHLQGQTMQDP  
FGEKRGHFDYQSLLMRLGLIRQKVLRLHNENAEMDS DSSSSGTETDLHGSLRV

>sp|Q7Z3V4|UBE3B\_HUMAN Ubiquitin-protein ligase E3B OS=Homo sapiens GN=UBE3B PE=1 SV=3

MFTLSQTSRAWFIDRARQAREERLVQKERERAAVVIQAHVRSFLCRSRLQRDIRREIDDF  
FKADDPSTKRSALCIFKIARKLLFLFRIKEDNERFEKLCRSILSSMDAENEPKVWYVSL  
ACSKDLTLLWIIQIKNILWYCCDFLKQLKPEILQDSRLITLYLTMLVTFTDTSTWKILRG  
KGESLRPAMNHICANIMGHLNQHGFYSVLQILLTRGLARPRCLSKGTLTAAFSALARPV  
IAAQFSDNLRPFLIHMSVPALVTHLSTVTPERLTVLESHDMLRKFIIFLRDQDRCRDV  
CESLEGCHTLCLMGNLLHLGSLSPRVLEEETDGFVSLLTQTLCYCRKYVSQKKSNTLHWH  
PVLGWFSQSVDYGLNESMHLITKQLQFLWGVPLIRIFFCDILSKLLESQEPAHAQPASP  
QNVLPVKSLLKRAFQKSASVRNLRPVGGKRVDSEVQKVCNICVLYQTSLTTLTQIRLQ  
ILTGLTYLDDLLPKLWAFICELGPHGGLKLFLECLNNDTEESKQLLAMLMFLCDSRHLLI

TILDDIEVYEEQISFKLEELVTISSFLNSFVKMIWDGIVENAKGETLELFQSVHGWL  
MYERDCRRRFTPEDHWRKDLKPSVLFQELDRDRKRAQLILQYIPHVIPHKNRVLLFR  
VTKEKEKLGVLVETSSASPHVTHITIRRSRMLEDGYEQLRQLSQHAMKGVIRVKFVNDL  
GVDEAGIDQDGVFKEFLEEIIKRVFDPALNLFKTTSGDERLYPSPTSIIHENYLQLFEFV  
GKMLGKAVYEGIVDVPFASFFLSQLLGHHSVFYSSVDELPSLDSEFYKNLTSIKRYD  
GDI TDLGLTSLSYDEDVMGQLVCHELIPGGKTIPVTNENKISYIHLMAHFRMHTQIK  
NQTAALISGFRSIIKPEWIRMFSTPELQRLISGDNAEIDLEDLKKHTVYYGGFHGSHR  
VIIWLDILASDFTPDERAMFLKFVTSCSRPPLLGFAYLKPPFSIRCVEVSDDQDTG  
DTLGSVLRGFFTIRKREPGGRLPTSSTCFNLLKLPNYSKKSVLREKLRYAISMNTGFELS

>sp|P11441|UBL4A\_HUMAN Ubiquitin-like protein 4A OS=Homo sapiens GN=UBL4A PE=1 SV=1  
MQLTVKALQGREGSLQVPEDELVSTLKQLVSEKLNVPVRQQRLLFKGGKALADGKRLSDYS  
IGPNSKLNLVVKPLEKVLLEEGEAQRLADSPPPQVWQLISKVLARHFSAADASRVLEQLQ  
RDYERSLSRLTDDIERLASRFLHPEVTETMEKGFSK

>sp|Q8N7F7|UBL4B\_HUMAN Ubiquitin-like protein 4B OS=Homo sapiens GN=UBL4B PE=1 SV=1  
MFLTVKLLLGQRCSLKVSGQESVATLKRLVSRRLKVPEEQHLLFRGQLLEDDKHLSDYC  
IGPNASINVIMQPLEKMALKEAHQPQTQPLWHQLGLVLAKHFEPQDAKAVLQLLRQEHEE  
RLQKISLEHLEQLAQYLLAEHPHVEPAGERELEAKARPQSSCDMEEEKEEAAADQ

>sp|P51784|UBP11\_HUMAN Ubiquitin carboxyl-terminal hydrolase 11 OS=Homo sapiens GN=USP11  
PE=1 SV=3

MAVAPRLFGGLCFRFRDQNPEVAVEGRPLISHSCVGCRRERTAMATVAANPAAAAAVAA  
AAAVTEDREPQHEELPGLDSQWRQIENGESGRERPLRAGESWFLVEKHVYKQWEAYVQGG  
DQDSSTFGPCINNATLQDEINWRLKEGLVEGEDYVLLPAAAWHYLVSWYGLEHGQPPTE  
RKVIELPNIQKVEVYPVELLLVRHNDLGKSHTVQFSHTDSIGLVLRTARERFLVEPQEDT  
RLWAKNSEGLDRLYDTHITVLDAALETGQLIIMETRKKDGTWPSAQLHVMNNNMSEEDE  
DFKGQPGICGLTNLGNTCFMNSALQCLSNVPQLTEYFLNNCYLEELNFRNPLGMKGEIAE  
AYADLVKQAWSGHHSRIVPHVFKNKVGHFASQFLGYQQHDSQELLSFLLDGLHEDLNRVK  
KKEYVELCDAAGRPDQEVAAQWQNHKRRNDSVIVDTFHGLFKSTLVCPDCGNVSVTFDP  
FCYLSVPLPISHKRVLVFFIPMDPRRKPEQHRLVVPKKGKISDLCVALSKHTGISPERM  
MVADVFSHRFYKLYQLEELSSILDRDDIFVYEVSGRIEIEGSREDIVVPVYLRERTPA  
RDYNNSSYYGLMLFGHPLLVSVPDRFTWEGLYNVLMYRLSRYVTKPNSDDEDDGDEKEDD  
EEDKDDVPGPSTGGSLRDPEPEQAGPSSGV TNRCPFLDNCLGTSQWPPRRRRKQLFTLQ  
TVNSNGTSDRTTSPPEVHAQPYIAIDWEPEMKKRYDEVEAEGYVKHDCVGYVMKKAPVR  
LQECIELFTTVETLEKENPWYCPSCQKQLATKKLDLWMLPEILIIHLKRFSYTKFSREK  
LDTLVEFPIRDLDSEFVIQPNQESNPELYKYDLIAVSNHYGGMRDGHYTTFACNKDSGQ  
WHYFDDNSVSPVNENQIESKAAAYVLFYQRQDVARRLLSPAGSSGAPASPACSSPPSSEFM  
DVN

>sp|Q13107|UBP4\_HUMAN Ubiquitin carboxyl-terminal hydrolase 4 OS=Homo sapiens GN=USP4  
PE=1 SV=3

MAEGGGCRERPDAETQKSELGPLMRTTLQRGAQWYLIDSRWFKQWKKYVGFDSWDMYNVG  
EHNLFPGPIDNSGLSDPESQTLKEHLIDELDYVLVPTEAWNKLNLWYGCVEGQQPIVRK  
VVEHGLFVKHCKVEVYLLLELKLCE NSDPTNVLSCHF SKADTIATIEKEMRKLFNIPAERE  
TRLWNKYMSNTYEQLSKLDNTVQDAGLYQGQVLVIEPQNEDGTWPRQTLQSKSSTAPSRN  
FTTSPKSSASPYSSVSASLIANGDSTSTCGMHSSGVSRRGSGFSASYNQEPSSHIQPG  
LCGLGNLGNTCFMNSALQCLSN TAPLTDYFLKDEYEAEINRDNPLGMKGEIAEAYAELIK

QMWSGRDAHVAPRMFKTQVGRFAPQFSGYQQQDSQELLAFLLDGLHEDLNRVKKKPYLEL  
KDANGRPDAVVAKEAWENHRLRNDSVIVDTFHGLFKSTLVCPECAKSVTFDPFCYLTLP  
LPLKKDRVMEVFLVPADPHCRPTQYRVTVPLMGAVSDLCEALSRLSGIAAENMVVADVYN  
HRFHKIFQMDEGLNHIMPRDDIFVYEV CSTSV D GSECVTLPVYFRERKSRPSSTSSASAL  
YGQPLLLSVPKHKLTLES LYQAVCDRISRYVKQPLPDEFGSSPLEPGACNGSRNSCEGED  
EEEMEHQEEGKEQLSETEGSGEDEPGNDPSETTQKKIKGQPCPKRLFTFSLVNSYGTADI  
NSLAADGKLLKLSNRSTLAMDWDETRRLYDEQESEAYEKHVSMLQPQKKKKTVALRD  
CIELFTTMETLGEHPWYCPNCKKHQATKKFDLWSLPKILVVHLKRFSYNRYWRDKLDT  
VVEFPIRGLNMSEFCNLSARPYVYDLIAVSNHYGAMGVGHYTAYAKNKLNGKWYFDDS  
NVSLASEDQIVTKAAYVLFYQRRDDEFYKTPSLSSSGSSDGGTRPSSSQQGFGDDEACSM  
DTN

>sp|Q9NRR5|UBQL4\_HUMAN Ubiquilin-4 OS=Homo sapiens GN=UBQLN4 PE=1 SV=2

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LKDGDTLNQHG IKDGLTVHLVIKTPQKAQDPAAATASSPSTPD PASAPSTTPASPATPAQ  
PSTSGSASSDAGSGSRRSSGGGSPSGAGEGSPS ATASILSGFGGILGLGSLGLGSANFME  
LQQQMQRQLMSNPEMLSQIMENPLVQDMMSNPDLMRHMIMANPQMQLMERNPEISHMLN  
NPELMRQTMELARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQEPMFSAAREQ  
FGNNPFSSLAGNSDSSSSQPLRTENREPLPNPWSPSPPTSQAPGSGGEGTGGSGTSQVHP  
TVSNPFGINAASLGSGMFNSPEMQALLQQISENPQLMQNVISAPYMRSMMQTLAQNP DFA  
AQMMVNVPLFAGNPQLQEQLRLQLPVFLQQMQNPESLSILTNPRAMQALLQIQQGLQTLQ  
TEAPGLVPSLGSFGISRT PAPSAGSNAGSTPEAPTSSPATPATSSPTGASSAQQQLMQQM  
IQLLAGSGNSQVQTPEVRFQQQLEQLNSMGFINREANLQAL IATGGDINAAIERLLGSQL  
S

>sp|095071|UBR5\_HUMAN E3 ubiquitin-protein ligase UBR5 OS=Homo sapiens GN=UBR5 PE=1 SV=2

MTSIHFVVHPLPGTEDQLNDRLREVSEKLNKYNLNSHPPLNVLEQATIKQCVVGNHAAF  
LLEDGRVCRIGFSVQPDRL ELGKPDNNDGSKLNSNSGAGRTSRPGRTSDSPWFLSGSETL  
GRLAGNTLGSRWSSGVGGSGGSSGRSSAGARDSRRQTRVIRTGRDRGSGLLGSQPQPV I  
PASV IPEELISQAQVVLQGKSRSVI IRELQRTNLDVNLAVNNLLSRDDEGDGDDDTASE  
SYLPGEDLMSLLDADIHSAHPSVI IDADAMFSEDI SYFGYPSFRRSSLSRLGSSRVLLLP  
LERDSELLRERESVLRRLRERRWLDGASF DNERGSTSKEGEPNLDKKNTPVQSPVSLGEDL  
QWWPDKDGTKFICIGALYSELLAVSSKGELYQWKWSESEPYRNAQNPSLHHPRATFLGLT  
NEKIVLLSANSIRATVATENNKVATWVDETLSSVASKLEHTAQTYS ELQGERIVSLHCCA  
LYTCAQLENSLYWWGVVPFSQRKKMLEKARAKNKKPKSSAGISSMPNITVGTQVCLRNNP  
LYHAGAVAFSISAGIPKVGVLME SVWNMNDSCR FQLRSPESLKNMEKASKTTEAKPESKQ  
EPVKTEMGPPSPASTCSDASSIASAMPYKRRRSTPAPKEEEKVNEEQWSLREVVFVE  
DVKNVPVGKVLKVDGAYVAVKFPGTSSNTNCQNSSGPDADPSSLLQDCRLLRIDELQVVK  
TGGTPKV PDCFQRTPKKLCIPEKTEILAVNVDSKGVHAVLKTGNWVRYCIFDLATGKAEQ  
ENNFTSSIAFLGQNERNVAIFTAGQESPIILRDGNGTIYPMKDCMGGIRDPDWLDLPP  
ISSLGMGVHSLINLPANSTIKKAAVI IMAVEKQTLMQHILRCDYEACRQYLMNLEQAVV  
LEQNLQMLQTFISHRCDGNRNILHACVSVCFPTSNKETKEEEEAE R SERNTFAERLSAVE  
AIA NAISVVSSNGPGNRAGSSSSRSLRLREMMRRSLRAAGLGRHEAGASSSDHQDPVSPP  
IAPPSWVPDPAMPDPGDIDFILAPAVGSLTTAATGTGQGPSTSTIPGPSTEPSVVESKD  
RKANAHFILKLLCDSVVLQPYLRELLSAKDARGMTPFMSAVSGRAYPAAITILETAQKIA  
KAEISSSEKEEDVFMGMVCPSGTNPDDSPLYVLCNDTCSFTWTGAEHINQDIFECRTCG

LLESLCCCTECARVCHKGHDCKLKRTSPTAYCDCWEKCKCKTLIAGQKSARLDLLYRLT  
ATNLVTL PNSRGEHLLLFLVQTVARQTV EHCQYRPPRIREDNRNKTASPEDSDMPDHDLE  
PPRFAQLALERVLQDWNALKSMIMFGSQENKDPLSASSRIGHLLPEEQVYLNQQSGTIRL  
DCFTHCLIVKCTADILLDTLLGTLVKELQNKYTPGRREEIAV TMRFLRSVARV FVILS  
VEMASSKKNNFIPQPIGKCKRVFQALLPYAVEELCNVAESLIVPVRMGIARPTAPFTLA  
STSIDAMQGSEELFSVEPLPPRPSSDQSSSSSQSSSYIIRNPQQRRISSQSPVGRDEE  
QDDIVSADVEEVEVEGVAGEEDHHDEQEEHGEENAEAGQHDEHDEGSDMELDLLAAA  
ETESDSESNHSNQDNASGRRSVTAATAGSEAGASSVPAFFSEDDSQSNDSSSDSSSSSQ  
SDDIEQETFMLEDEPLERTTNSHANGAAQAPRSMQWAVRNTQH QRAASTAPSSTSTPAAS  
SAGLIYIDPSNLRRSGTISTSAAAAAALEASENASSYLTSASSLARAYSIVIRQISDLMG  
LIPKYNHLVYSQIPAAVKLTYQDAVNLQNYVEEKLIPTWNWVSI MDSTEAQLRYGSALA  
SAGDPGHPNHPLHASQNSARRERMTAREEASLRTLEGRRRATLLSARQMMSARGDFLNY  
ALSMLRSHNDEHSDVLPVLDVCSLKHVAYVFQALIYWI KAMNQQTLDTPQLERKRTREL  
LELGIDNEDSEHENDDDTNQSATLNDKDDDSLPAETGQNHPPFRRSDSMTFLGCIPP NPF  
EVPLAEAIPLADQPHLLQPNARKEDLFG RPSQGLYSSASSGKCLMEVTVD RNCLEVLPT  
KMSYAANLKNVMNMQRQKKEGEEQPVLP EETESSKPGPSAHD LAAQLKSSLLAEIGLTE  
SEGPLTSFRPQCSFMGMVISHDMLLGRWRLSLELFG RVFMEDVGAEPGSILTELG GFEV  
KESKFRREMEKLRNQQRDL SLEVD RDRDLLIQQTMRQLNNHFGRRCATTPMAVHRVKVT  
FKDEPGEGSGVARSFYTAIAQAFLSNEKLPNLECTIQNANKGHTHTSLMQRLRNRGERDRER  
EREREMRRSSGLRAGSRRDRDRDFRRQLSIDTRPFRPASEGNPSDDPELPAHRQALGER  
LYPRVQAMQPAFASKITGM LLELSPAQLLLLASEDSL RARVDEAMELIIAHGRENGADS  
ILDGLVDSSEKVQQENRKRHGSSRSVDMDLDDTDDGDDNAPLFYQPGKRGFYTPRPGK  
NTEARLNCFRNIGRILGLCLLQNELCPI TLNRHVIKVLLGRKVNWHDFAFFDPVMYESLR  
QLILASQSSDADAVFSAMD LAFIDLCKEEGGGQVELIPNGVNIPVTPQNVYEVVRKYAE  
HRMLVVAEQPLHAMRKGLLDVLPKNSLEDLTAEDFRLLVNGCGEVNVQMLISFTSFNDES  
GENAEKLLQFKRWFSIVEKMSMTERQDLVYFWTSSPSLPASEEGFQPMPSITIRPPDDQ  
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>sp|Q8WUN7|UBTD2\_HUMAN Ubiquitin domain-containing protein 2 OS=Homo sapiens GN=UBTD2  
PE=1 SV=2

MGGCVGAQHDSGSLNENSEGTGVALGRNQPLKKEKPKWKS DYPMTDGQLRSKRDEFWDT  
APAFEGRKEIWDALKA AAHAFESNDHELAQAII DGANITLPHGALTECYDELGNRYQLPV  
YCLAPPINMIEEKSDIETLDIPEPPPN SGYECQLRLRLSTGKDLKLVRSTDTVFHMKRR  
LHAAEGVEPGSQRWFFSGRPLTDKMKFEELKIPKDYVVQVIVSQPVQNPTPVEN

>sp|Q14CS0|UBX2B\_HUMAN UBX domain-containing protein 2B OS=Homo sapiens GN=UBXN2B PE=1  
SV=1

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PQRFYSSEHEYSGLNIVRPSTGKIVNELFKEAREHGAVPLNEATRASGDDKSKSFTGGGY  
RLGSSFCKRSEYIYGENQLQDVQILLKLWSNGFSLDDGELRPYNEPTNAQFLESVKRGEI  
PLELQRLVHGGQVNLDMEDHQDEYIKPRLRFKAFSGEGQKLGSLTPEIVSTPSSPEEED  
KSILNAVVLIDDSVPTTKIQIRLADGSRLIQRFNSTHRI LDVRNFIVQSRPEFAALDFIL  
VTSFPNKELTDES LTLEADILNTVLLQQLK

>sp|Q9BZV1|UBXN6\_HUMAN UBX domain-containing protein 6 OS=Homo sapiens GN=UBXN6 PE=1 SV=1  
MKKFFQEFKADIKFSAGPGQKLKESVGEKAHKEKPNQPAPRPPRQGPTNEAQMAAAAAL  
ARLEQKQSRWAGPTSQDTIRNQVRKELQAEATVSGSPEAPGTNVVSEPREEGSAHLAVPG

VYFTCPLTGATLRKDQRDACIKEAILLHFSTDPVAASIMKIYTFNKDQDRVKLGVDTIK  
YLDNIHLHPEEEKYRKIKLQNKVFQERINCLEGTHEFFEAIQFQKVLLPAQDQEDPEEFY  
VLSETTLAQPPSLERHKEQLLAAEPVRAKLDRQRRVFQPSPLASQFELPGDFFNLTAEEI  
KREQRLRSEAVERLSVLR TKAMREKEEQRLRKYNITLLRVRLPDGCLLQGT FYARERLG  
AVYGFVREALQSDWLPFELLASGGQKLS DENLALNECGLVPSALLTFSWDMAVLEDIKA  
AGAEPDSILKPELLSAIEKLL

>sp|Q92575|UBXN4\_HUMAN UBX domain-containing protein 4 OS=Homo sapiens GN=UBXN4 PE=1 SV=2  
MLWFQGAIPAAIATAKRSGAVFVVFVAGDDEQSTQMAASWEDDKVTEASSNSFVAIKIDT  
KSEACLQFSQIYPVVCVPSSFFIGDSGIPLEVIAGSVSADELVTRIHKVRQMHLKSETS  
VANGSQSESSVSTPSASFEPNNTCENSQSRNAELCEIPPTSDTKSDTATGGESAGHATSS  
QEPSGCSDQRPADLNIRVERLTKKLEERREEKRKEEQREIKKEIERRKTGKEMLDYKR  
KQEEELTKRMLEERNREKAEDRAARERIKQQIALDRAERAARFAKTKEEVEAKAAALLA  
KQAEMEVKRESYARERSTVARIQFRLPDGSSFTNQFSPDAPLEEARQFAAQTVGNTYGNF  
SLATMFPREFTKEDYKKLLDLELAPSASVLLPAGRPTASIVHSSSGDIWTLTGTVLY  
PFLAIWRLISNLFNSPPPTQTSVRVTSSEPPNPASSSKSEKREPVRKRVLKRGDDFKK  
EGKIYRLRTQDDGEDENNTWNGNSTQQM

>sp|Q9BZX2|UCK2\_HUMAN Uridine-cytidine kinase 2 OS=Homo sapiens GN=UCK2 PE=1 SV=1  
MAGDSEQLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILS  
QDSFYRVL TSEQAKALKGQNFNDHPDAFDNELILKTLKEITEGKTQIPVYDFVSHSRK  
EETVTVPADVVLFEGLAFYSQEVRLDFQMKLFVDTDADTRL SRRVLRDISERGRDLEQ  
ILSYITFVKPAFEFCLPTKKYADV IIPRGADNLVAINLIVQHIQDILNGGPSKRQTNG  
CLNGYTPSRKRQASESSSRPH

>sp|P55916|UCP3\_HUMAN Mitochondrial uncoupling protein 3 OS=Homo sapiens GN=UCP3 PE=1  
SV=1  
MVGLKPSDVPPTMAVKFLGAGTAACFADLVTFPLDTAKVRLQIQGENQAVQTARLVQYRG  
VLGTILTMVRTEGPCSPYNGVLVAGLQRQMSFASIRIGLYDSVKQVYTPKGADNSSLTTRI  
LAGCTTGAMAVTCAQPTDVVKVRFQAS IHLGPSRSDRKYSGTMDAYRTIAREEGVRGLWK  
GTLPNIMRNAIVNCAEVV TYDILKEKLLDYHLLTDNFPCHFVSAFGAGFCATVVASPVDV  
VKTRYMNSPPGQYFSP LDCMIKMVAQEGPTAFYKGFTPSFLRLGSWNVVMFV TYEQLKRA  
LMKVQMLRESPF

>sp|095258|UCP5\_HUMAN Brain mitochondrial carrier protein 1 OS=Homo sapiens GN=SLC25A14  
PE=2 SV=1  
MGIFPGIILIFLRVKFATAAVIVSGHQKSTTVSHEMSGLNWKPFVYGGLASIVA EFGTFP  
VDLTKTRLQVQGSIDARFKEIKYRGMFHALFRICKEEGLALYSGIAPALLRQASYGTI  
KIGIYQSLKRLFVERLEDETLINMICGVVSGVISSTIANPTDVLKIRMQAQGS LFGSM  
IGSFIDYQQEGTRGLWRGVVPTAQRAAIVGVELPVYDITKKHLILSGMMGDTILTHFV  
SSFTCGLAGALASNPVDVVRTRMMNQRAIVGHVDLYKGTVDGILKMWKHEGFFALYKGF  
PNWLR LGPWNI IFFITYEQLKRLQI

>sp|P47985|UCRI\_HUMAN Cytochrome b-c1 complex subunit Rieske, mitochondrial OS=Homo  
sapiens GN=UQCRFS1 PE=1 SV=2  
MLSVASRSGPFAPVLSATSRGVAGALRPLVQATVPATPEQPVLDLKRPFLSRESLSGQAV  
RRPLVASVGLNPASVCYSHTDIKVPDFSEYRRLEVLDSTKSSRESSEARKGFSYLVTGV  
TTVGVAAYAANA VTFVSSMSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRT  
QKEIEQEAAVELSQLRDPQHDLDRVKKPEWVILIGVCTHLGCVPIANAGDFGGYYCPCHG



SHYDASGRIRLGPAPLNLEVPTYEFTSDDMVIVG

>sp|Q9HAW9|UD18\_HUMAN UDP-glucuronosyltransferase 1-8 OS=Homo sapiens GN=UGT1A8 PE=1 SV=1

MARTGWTSP IPLCVSLLLT CGFAEAGKLLVVPMDGSHWFTMQSVVEKLILRGHEVVVMP  
EVSWQLGKSLNCTVKTYSTSYTLEDLDREFMDFADAQWKAQVRSLSLFLSSSNGFFNLF  
FSHCRSLFNDRKLVEYLKESSFDAVFLDPFDACGLIVAKYFSLPSVVFARGIACHYLEEG  
AQCPAPLSYVPRILLGFSDAMTFKERVNRNIMHLEHLFCQYFSKNALEIASEILQTPVT  
AYDLYSHTSIWLLRTDFVLDPKPVMPNMIFIGGINCHQGKPLPMEFEAYINASGEHGIV  
VFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVKWLPQNDLLGH  
PMTRAFITHAGSHGVYESICNGVPMVMMP LFGDQMDNAKRMETKGAGVT LNVLEMTSED L  
ENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTW  
YQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|Q5JXB2|UE2NL\_HUMAN Putative ubiquitin-conjugating enzyme E2 N-like OS=Homo sapiens  
GN=UBE2NL PE=1 SV=1

MAELPHRI IKETQRLLAEPVPGIKAEPDES NARYFHVVIAGESKDSPFEGGTFKRELLLA  
EEYPMAAPKVRFM TKIYHPNVDKLERISLDILKDKWSPALQIRTVLLSIQALLNAPNPDD  
PLANDVVEQWKTNEAQAIETARAWTRLYAMNSI

>sp|Q8TAS1|UHMK1\_HUMAN Serine/threonine-protein kinase Kist OS=Homo sapiens GN=UHMK1 PE=1  
SV=2

MAGSGCAWGAEP PRFLEAFGR LWVQVSRLGSGSSASVYRVRC CGNPGSPPGALKQFLPPG  
TTGAAASAAEYGRKERA ALEQLQGHRNIVTLYGVFTIHFSPNVPSRCLLLELLDVS VSE  
LLLYSSHQGC SMMWMIQH CARDVLEALAF LHHEGYVHADLKPRN ILWSAENECFKLIDFGL  
SFKEGNQDV KYIQT DGYRAPEAE LQNCLAQAGLQSDTECTSAVDLWSLGIILLEMFGMK  
LKHTVRSQEWKANSSAIIDHIFASKAVVNAAIPAYHLRDLIKSMLHDDPSRRIPAEMALC  
SPFFSIPFAPHIEDLVMLPTPVLRLNLVDDDYLENEEEYEDVVEDVKEECQKYGPVVSL  
LVPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKFVVATFYPLSAYKRGYLYQTLL

>sp|Q96T88|UHRF1\_HUMAN E3 ubiquitin-protein ligase UHRF1 OS=Homo sapiens GN=UHRF1 PE=1  
SV=1

MW IQVRTMDGRQTH TVDSL SRLTKVEELRRKI QELFHVEPGLQRLFYRGKQMEDGHTLFD  
YEVRLNDTIQLLV RQSLVLP HSTKERDSELSDTSGCCLGQSESDKSSTHGEAAAETDSR  
PADEDMWDETELGLYKVNEYVDARDTNMGAWFEAQVVRVTRKAPSRDEPCSSTSRPALEE  
DVIYHVKYDDYPENG VVQMNSRDVRARARTIIKWQDLEVGGVVM LNYPDPNPKERGFWD  
AEISRKRETRTARELYANVVLGDDSLNDCRIIFVDEVFKIERPGE GSPMVDNPMRRKSGP  
SCKHCKDDVNRLCRVCACHLCGGRQDPDKQLMCDECDMAFH IYCLDPPLSSVPSEDEWYC  
PECRNDASEVVLAGERLRESKKKAKMASATSSSQRDWKGGMACVGR TKECTIVPSNHYGP  
IPGIPVGTMWFRVQVSESGVHRPHVAGIHGRSNDGAYSLVLAGGYEDVDHGNFFTYTG  
SGGRDLSGNKRTAEQSCDQKL TNTNRALALNCFAPINDQEGAEAKDWRSGKPVRVVRNVK  
GGKNSKYAPAEGNRYDGIYKVVKYWPEKGKSGFLVWRYLLRRDDDEPGPWTKEGKDRIKK  
LGLTMQYPEGYLEALANREKREKSKREEEEQEGGFASPRTGKGKWKRSAGGGPSRAG  
SPRRTSKKTKVEPYSLTAQQSSLIREDKSNAKLWNEVLASLKDRPASGSPFQLFLSKVEE  
TFQCICQELVFRPITTV CQHNVCKDCLDRSFRAQVFSCPACRYDLGRSYAMQVNQPLQT  
VLNQLFPGYGNGR

>sp|Q8IYT8|ULK2\_HUMAN Serine/threonine-protein kinase ULK2 OS=Homo sapiens GN=ULK2 PE=1  
SV=3

MEVVGDFEYSKRDLVGHGAFVFRGRHRQKTDWEVAIKSINKKNLSKSQILLGKEIKIL

KELQHENIVALYDVQELPNSVFLVMEYCNGGDLADYLQAKGTLSEDTIRVFLHQIAAAMR  
ILHSGKGIHRDLKPQNILLSYANRRKSSVSGIRIKIADFGFARYLHSNMMAATLCGSPMY  
MAPEVIMSQHYDAKADLWSIGTVIYQCLVGKPPFQANSPQDLRMFYEKNRSLMPSIPRET  
SPYLANLLGLLQRNQKDRMDFEAFSSHPLFLEQGPVKKSCPVPVPMYSGSVSGSSCGSSP  
SCRFASPPSLPDMQHIQEENLSSPPLGPPNYLQVSKDSASTSSKNSSCDTDDFVLVPHNI  
SSDHSCDMPVGTAGRRASNEFLVCGGQCQPTVSPHSETAPIPVPTQIRNYQRIEQNLST  
ASSGTNVHGSPPSAVVRRSNTSPMGFLRPGSCSPVPADTAQTVGRRLSTGSSRPYSPSPL  
VGTIPEQFSQCCCGHPQGHDSRSRNSGSPVQAQSPQSLLSGARLQSAPTLTDIYQNKQ  
KLKQKQSDPVCPSHTGAGYSYSPQSRPGSLGTSPTKHLGSSPRSSDWFFKTPLPTIIGS  
PTKTTAPFKIPKTQASSNLLALVTRHGPAEEQSKDGNPRECAHCLLVQGSERQRAEQQS  
KAVFGRSVSTGKLSDDQGGKTPICRHQGSTDSLNTERPMDIAPAGACGGVLAPPAGTAASS  
KAVLFTVGSPPHSAAAPTCTHMFRLTRTTSVGPSNSGGSLCAMSGRVCVGSPPGPGFGSS  
PPGAEAAPSLRYVPYGASPPSLEGLITFEAPELPEETLMEREHTDTRLHLNVMLMFTCEV  
LDLTAMRGGNPELCTSAVSLYQIQESVVVDQISQLSKDWGRVEQLVLYMKAQLLAASLH  
LAKAQIKSGKLSPTAVKQVVKNLNERYKFCITMCKKLEKLNRFSDKQRFIDEINSVT  
AEKLIYNCAVEMVQSAALDEMFAQQTEDIVRYHKAALLLEGLSRILQDPADIENVHKKYC  
SIERRLSALCHSTATV

>sp|Q96C45|ULK4\_HUMAN Serine/threonine-protein kinase ULK4 OS=Homo sapiens GN=ULK4 PE=1  
SV=2

MENFIFYEEIGRGSKTVVYKGRRKGTINFVAILCTDKCKRPEITNWVRLTREIKHKNIIVT  
FHEWYETSNHLWLVELCTGGSLKTVIAQDENLPEDVVREFGIDLISGLHHLHKLGIILFC  
DISPRKILLEGPGTLKFSNFCLAKVEGENLEEFFALVAEEGGDNGENVLKKSMKSRVK  
GSPVYTAPEVVRGADFSISSDLWSLGCLLYEMFSGKPPFFSESISELTEKILCEDPLPPI  
PKDSSRPKASSDFINLLDGLLQRDPQKRLTWTRLLQHSFWKKAFAQADQESSVEDLSLSR  
NTMECSGPGQDSKELLQNSQSRQAKGHKSGQPLGHSFRLENPTFRPKSTLEGQLNESMFL  
LSSRPTPTSTAVEVSPGEDMTHCSPQKTSPLTKITSGHLSQQDLESQMRELIYTDSDLV  
VTPIIDNPKIMKPPVKFDAKILHLPTYSDKLLFLKDQDWNDFLQQVCSQIDSTESKMG  
ASRAKLNLLCYLCVVAGHQEVATRLLHSPLFQLLIQHLRIAPNWDIRAKVAHVIGLLASH  
TAELQENTPVVEAIVLLTELIRENFRNSKLKQCLLPTLGELIYLVATQEEKKKNPRECWA  
VPLAAYTVLMRCLREGEERVVNHMAAKIIENVCTTFSAQSQGFITGEIGPILWYLFHRST  
ADSLRITAVSALCRITRHSPTAFQNVIEKVGLNSVINSLASAICKVQQYMLTLFAAMLSC  
GIHLQRLIQEKGFSVTIIRLLDSPSTCIRAKAFLVLLYILYINREMLLLSCQARLVMYIE  
RDSRKTTPGKEQQSGNEYLSKCLDLLICHIVQELPRILGDILNSLANVSGRKHPSTVQVK  
QLKLCLPLMPVVLHLVTSQVFRPQVVTEEFVFSYGTILSHIKSVDSGETNIDGAIGLTAS  
EEFIKITLSAFEAIQYPILLKDYRSTVVDYILPPLVSLVQSQNVWRLFSLRLLSETTS  
LLVNQEFGDGKEKASVSDSNLLALIRDVLLPQYEHILLEPDPVPAYALKLLVAMTEHNP  
TFTRLVEESKLIPLIFEVTLHQESILGNTMQSVIALLSNLVACKDSNMELLYEQGLVSH  
ICNLLTETATLCLDVDNKNNNEMAAPLLFSLLDILHSMITYTSGIVRLALQAQKSGSGED  
PQAAEDLLLLNRPLTDLISLLIPLLPNEDPEIFDVSSKCLSILVQLYGGENPDSLSPENV  
EIFAHLTTSKEDPKEQKLLRILRRMITSNEKHLESKNAGSLLRALERLAPGSGSFADS  
AVAPLALEILQAVGH

>sp|Q8N2C9|UMAS1\_HUMAN Uncharacterized protein UMODL1-AS1 OS=Homo sapiens GN=UMODL1-AS1  
PE=2 SV=3

MAWGLPCHQNTAGANPHLFLGCYSTSSLQGLEYGGRGDAHGKPGVLHGELEPHDHTSRL

ERHDLHSQLPTSQVRHHWEGALDLAKKRQQQTSINVFTTIKQGSRCRWMVLGAISLL  
YNQEEAPDDRPLRARREVRSQHLSWAFPGTAGPGLVCAGDSQ

>sp|O00322|UPK1A\_HUMAN Uroplakin-1a OS=Homo sapiens GN=UPK1A PE=2 SV=1

MASAAAAEAEKGSPPVVGLLVGNIIILLSGLSLFAETIWTADQYRVYPLMGVSGKDDV  
FAGAWIAIFCGFSFFMVASFGVGAALCRRRSMVLTYLVMLIVYIFECASCITSYTHRDY  
MVSNPSLITKQMLTFYSADTDQGQELTRLWDRVMIEQECCGTSGPMDWVNFTSAFRAATP  
EVVFPWPPLCCRRTNFIPLNEEGCRLGHMDYLFKGC FEHIGHAIDSYTWGISWFGFAI  
LMWTLPVMLIAMFYFTML

>sp|BOFP48|UPK3L\_HUMAN Uroplakin-3b-like protein OS=Homo sapiens GN=UPK3BL PE=2 SV=1

MDNSWRLGPAIGLSAGQSQLLVSLLLLLTRVQPGTDVAAP EHSYVPQLSNDTLAGRLTL  
STFTLEQLPGQFSSHNISDLDTIWL VVALSNATQSFTAPRTNQDIPAPANFSQRGYLTL  
RANRVLYQTRGQLHVL RVGN DTHCQPTKIGCNHPLPGPGPYRVKFLVMNDEGPVAETKWS  
SDTRLQQAQALRAVPGPQSPGTVVIIAILSILLAVLLTVLLAVLIYTCFN SCRSTSLSGP  
EEAGSVRRYTTHLAFSTPAEGAS

>sp|O95045|UPP2\_HUMAN Uridine phosphorylase 2 OS=Homo sapiens GN=UPP2 PE=1 SV=1

MASVIPASNRMRS DRNTYVGKRFVHVKNPYLDLMD E DILYHLDLGTKTHNLPAMFGDVK  
FVCVGGS PNMKAFALFMHKG LFEEAEEDIKD ICAGTD RYCMYKTGPVLAISHGMGIPS  
ISIMLHEL I KLLH HARC CDVTIIRIGTSGGIGIAPGT VVITDIAVDSFFKPRFEQVILDN  
IVTRSTELDKELSEELFNCSKEIPNFPTLVGHTMCTYDFYEGQGRLDGALCSFSREKKLD  
YLKRAF KAGVRNIEMESTVFAAMCGLCGLKAAVVCVTL DRLDCDQINLPHDVLVEYQQR  
PQLLISNFIRRLGLCD

>sp|P07911|UROM\_HUMAN Uromodulin OS=Homo sapiens GN=UMOD PE=1 SV=1

MGQPSLTWMLMVVASWFITTAATDTSEARWCSECHSNATCTEDEAVTTCTCQEGFTGDG  
LTCVDLDECAIPGAHNCSANSSCVNTPGSFSCVCEGFRLSPGLGCTDVDECAEPGLSHC  
HALATCVNVVGSYLVCVPAGYRGD GWHCECSPGSCGPGLDCVPEGDALVCADPCQA HRTL  
DEYWRST EYGEGYACD TDLRGWYRFV GQG GARMAETCVPVLCNTAAPMWLN GTHPSSDE  
GIVSRKACAHWSGHCCLDASVQVKACAGGYVYNLTAPPECHLAYCTDPSSVEGTCEEC  
SIDEDCKSNNGRWHCQCKQDFNITDISLLEHRLECGANDMKVSLGKCQLKSLGFDKVFMY  
LSDSRCSGFNDRDNRD WVS VVTPARDGPCGTVL TRNETHATYSNTLYLADEIIIRD LNIK  
INFACSYPLDMKVSLKTALQPMVSALNIRVGGTGMFTVRMALFQTPSYTQPYQGSSV TLS  
TEAFLYVGTM LDG GDL SR FALLMTN CYATPSSNATDPLKYFIIQDRCPHTRDSTIQVVEN  
GESSQGRFSVQMFRFAGNYDLVYLHCEVYLC DMNEKCKPTCSGTRFRSGSVIDQSRVLN  
LGPITRKGVQATVSRAFSSLGLLKVWLPLLLSATLTLTFQ

>sp|Q8N6Y0|USBP1\_HUMAN Usher syndrome type-1C protein-binding protein 1 OS=Homo sapiens  
GN=USHBP1 PE=1 SV=1

MSARATRPRSRGRHAPP GELDPVAESSEEVEAASGSSKPSFAPPPVSSGLEQLGPMEEV  
SGQGLGSRTDKKMDGSGRELASAEVPHKPAVEAHQAPEAALQYKETVPPGNGAPDV FQ  
TLQHTLSSLEAAAAAWRHQPPSHSGPMEFEGTSEGGAGSLGKQEGAGSCQREARLAERN  
AWLRLALSSREDELVRTQASLEATRAEKETLQKEVQELQD SLLRLEPCPHLSHNQAGGSG  
SGSSSSEADREPWETQDSFSLAHP LLRRLRSHSSTQILGSLPNQPLSP EMHIMEAQMEQL  
RGSIEKLKCFNRLLSAVLQGYKGRCEGLSMQLGQREAEATALHLALQYSEHCEEAYRVLL  
ALREADSGAGDEAPMSDLQAAEKEAWRLLAQEEAMDAGAQNPQPSPEGSSVDKPTPQE  
VAFQLRSYVQRLQERRSLMKILSEPGPTLAPMPTVPRAEAMVQAILGTQAGPALPRLEKT  
QIQQDLVAAREALADLMLRLQLVRREKRGLELREAA LRALGPAHVLLLEQLRWERAELQA

GGANSSGGHSSGGSSGDEEEWYQGLPAVPGGTSGIDGGQVGRAWDEPKLAQELAASLTR  
TLDLQEQQLQSLRRELEQVAQKGRARRSQSAELNRDLCKAHSALVLAFRGAHRKQEEQRRK  
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>sp|Q9NUW8|TYDP1\_HUMAN Tyrosyl-DNA phosphodiesterase 1 OS=Homo sapiens GN=TDP1 PE=1 SV=2  
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SPVKFSNTDSVLPKRQKSGSQEDLGWCLSSDDELQPEMPQKQAEKVVIKKEKDISAPN  
DGTAQRTEHNGAPACHRLKEEEDYETSGEGQDIWMDLKGPNPFQFYLTRVSGVKPKYNS  
GALHIKDILSPLFGTLVSSAQFNCFDVDWLVKQYPPEFRKKPILLVHGDKREKAHLHA  
QAKPYENISLCQAKLDIAFGTHHTKMMLLLYEEGLRVVIHTSNLIHADWHQKTQGIWLS  
LYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWIDVIHKHDLSETNVYLIGSTPG  
RFQGSQKDNWGHFRLKKLLKDASSMPNAESWPVVGQFSSVGSGLGADESKWLCSEFKESM  
LTLGKESKTPGKSSVPLYLIYSPVENVRTSLEGYPAAGSLPYSIQTAEKQNWLSYFHKW  
SAETSGRSNAPHIKTYMRPSPDFSKIAWFLVTSANLSKAAWGALEKNGTQLMIRSYELG  
VLFLPSAFGLDSFKVKQKFFAGSQEPMATFPVPYDLPELYGSKDRPWIWNIPYVKAPDT  
HGNMWVPS

>sp|O43914|TYOBP\_HUMAN TYRO protein tyrosine kinase-binding protein OS=Homo sapiens  
GN=TYROBP PE=1 SV=1  
MGGLEPCSRLLLLPLLLAVSGLRPVQAQAQSDCSCSTVSPGVLGIVMGDLVLTVLIALA  
VYFLGRLVPRGRGAEEAATRKQRITETESPYQELQGQRSDVYSDLNTQRPYYK

>sp|P40126|TYRP2\_HUMAN L-dopachrome tautomerase OS=Homo sapiens GN=DCT PE=1 SV=1  
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CTEVRADTRPWSGPYILRNQDDRELWPRKFFHRTCKCTGNFAGYNGDCKFGWTGPNCER  
KKPPVIRQNIHSLSPQEREQFLGALDLAKKRVPDYVITQHWLGLLGPNGTQPPFANCS  
VYDFFVWLHYYSVRDTLLGPRPYRAIDFSHQGPAFVTWHRYHLLCLERDLQRLIGNESF  
ALPYWNFATGRNECDVCTDQLFGAARPDDPTLISRNSRFSSWETVCDSLDDYNHLVTLN  
GTYEGLLRNQMGRNSMKLPTLKDIRDCLSLQKFDNPPFFQNSTFSFRNALEGFADKADGT  
LDSQVMSLHNLVHSFLNGTNALPHSAANDPIFVVLHSFTDAIFDEWMKRFNPPADAWPQE  
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VALVGLFVLLAFLQYRRLRKGYTPLMETHLSSKRYTEEA

>sp|O60294|TYW4\_HUMAN tRNA wybutosine-synthesizing protein 4 OS=Homo sapiens GN=LCMT2  
PE=1 SV=3  
MGPRSRERRAGAVQNTNDSSALSKRSLAARGYVQDPFAALLVPGAARRAPLIHRGYVRA  
RAVRHCVRAFLEQIGAPQAALRAQILSLGAGFDSL YFRLKTAGRLARA A VEVDFPDVAR  
RKAERIGETPELCALTGPFERGE PASALCFESADY CILGLDLRQLQRVEEALGAAGLDAA  
SPTLLLA EAVLT YLEPESAAALIAWAAQRFPNALFVVYEQMRPQDAFGQFMLQHFRQLNS  
PLHGLERFPDVEAQRRLFLQAGWTACGAVDMNEFYHCFLPAEERRRVENIEPFDEFEEWH  
LKCAHYFILAASRGDTLSHTLVFSPSEAFPRVNPASPSGVFPASVVSSEGQVPNLKRYGH  
ASVFLSPDVILSAGFGGEQGRHCRVSQFHLLSRDCDSEWKGSQIGSCGTGVQWDGRLYH  
TMTRLSESRLVLGGRLSPVSPALGVLQLHFFKSEDNNTEDLKVTITKAGRKDDSTLCCW  
RHSTTEVSCQNQEYLFVYGGRSVVEPVLSDWHFLHVGTMAWVRIPVEGEVPEARHSHSAC  
TWQGGALIAGGLGASEEPLNSVFLRPISCGFLWESVDIQPPITPRYSHTAHVLNGKLLL  
VGGIWIHSSSFPGVTVINLTGLSSEYQIDTTYVPWPLMLHNHTSILLPEEQQLLLGGG  
GNCFSFGTYFNPHTVTLDLSSLSAGQ

>sp|P22309|UD11\_HUMAN UDP-glucuronosyltransferase 1-1 OS=Homo sapiens GN=UGT1A1 PE=1 SV=1

MAVESQGGRLVLGLLLCVLGPVSHAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIVVL  
APDASLYIRDGAFYTLKTYPPVFQREDVKESFVSLGHNVFENDSFLQRVIKTYKKIKKDS  
AMLLSGCSHLLHNKELMASLAESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHALPCSLE  
FEATQCPNPFSYVPRPLSSHSDHMTFLQRVKNMLIAFSQNFLCDVVYSPYATLASEFLQR  
EVTVQDLLSSASVWLFRSDFVKDYPRPIMPNMVFGGINCLHQNPLSQEFEAYINASGEH  
GIVVFSLSGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVKWLPQNDL  
LGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTNLVLEMTS  
EDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAH  
L TWYQYHSLDIVIGFLLAVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|Q6UWM9|UD2A3\_HUMAN UDP-glucuronosyltransferase 2A3 OS=Homo sapiens GN=UGT2A3 PE=2  
SV=2

MRSDKSALVFLLLQLFCVCGFCGKVLVWPCDSHWLNVKVILEELIVRGHEVTVLTHSK  
PSLIDYRKPSALKFEVHMPQDRTEENEIFVDLALNVLPGLSTWQSVIKLNDFVVEIRGT  
LKMMCESFIYNQTLMKKLQETNYDVMLIDPVI PCGDLMAELLAVPFVLTLRISVGGNMER  
SCGKLPAPLSYVPVPMGTGLTDRMTFLERVKNMSLSVLHFHWIQDYDYHFWEFYSKALGR  
PTTLCETVGKAEIWLIRTYWDFEFPQPYQPNFEFVGGHCKPAKALPKEMENFVQSSGED  
GIVVFSLSGSLFQNVTEEKANIIASALAQIPQKVLWRYKGKKPSTLGANTRLYDWIPQNDL  
LGHPKTKAFITHGGMNGIYEAIYHGVPVGVPIFGDQLDNIAHMKAKGAAVEINFKTMTS  
EDLLRALRTVITDSSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRSAAH  
L TWYQYHSLDIVIGFLLACVATAIFLFTKCFLFSCQKFNKTRKIEKRE

>sp|P16662|UD2B7\_HUMAN UDP-glucuronosyltransferase 2B7 OS=Homo sapiens GN=UGT2B7 PE=1  
SV=1

MSVKWTSVILLIQLSFCFSSGNCCKVLVWAAEYSHWMNIKTILDELIQRGHEVTVLASSA  
SILFDPNNSSALKIEIYPTSLTKTELENFIMQQIKRWSDLPKDTFWLYFSQVQEIMSI  
FGDITRKFCCKDVVSNKKFMKKVQESRFDVIFADAI FPCSELLAELFNIPFVYSLSFSPGYTF  
EKHSGGFIFPPSYVPVVMSELTDQMTFMERVKNMIYVLYDFWFEIFDMKKWDQFYSEVL  
GRPTTLSETMGKADVWLIRNSWNFQFPHPLLPNVDFVGGHCKPAKPLPKEMEDFVQSSG  
ENGVVVFSLSGSMVSNMTEERANVIASALAQIPQKVLWRFDGNKPDTLGLNTRLYKWIPQN  
DLLGHPKTRAFITHGGANGIYEAIYHGIPMVGIPLFADQPDNIAHMKARGAAVRVDFNTM  
SSTDLLNALKRVINDPSYKENVMKLSRIQHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAA  
HDLTWYQYHSLDIVIGFLLVCVATVIFIVTKCCLFCFWKFARKAKKGN

>sp|Q16851|UGPA\_HUMAN UTP--glucose-1-phosphate uridylyltransferase OS=Homo sapiens  
GN=UGP2 PE=1 SV=5

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LFHRFLQEKGPSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKL VVVKLNGGLGTS  
MGCKGPKSLIGVRNENTFLDLTVQQIEHLNKTYNTDVPLVLMNSFNTEDETKKILQKYNH  
CRVKIYTFNQSRYPINKESLLPVAKDVSYSGENTEAWYPPGHGDIYASFYNSGLLDTFI  
GEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVMEVTNKTRADVKGGLTQYEG  
KLRLVEIAQVPKAHVDEFKSVSKFI FNTNWLISLA AVKRLQEQAIDMEIIVNAKTLD  
GGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLVMSNLYSLNAGSLTMSE  
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NHGDRIDIPPGAVLENKIVSGNLRILDH

>sp|Q6PHR2|ULK3\_HUMAN Serine/threonine-protein kinase ULK3 OS=Homo sapiens GN=ULK3 PE=1  
SV=2

MAGPGWGPPRLDGFILTERLGSPTYATVYKAYAKDREVVAIKCVAKKSLNKASVENLL  
TEIEILKGIRHPHIVQLKDFQWSDNIYLIMEFCAGGDLRSFIHTRRILPEKVARVFMQQ  
LASALQFLHERNISHLDLKPQNILLSSLEKPHLKLADFGFAQHMSPWDEKHVLRGSPLYM  
APEMVCQRQYDARVDLWSMGVILYEALFGQPPFASRSFSELEEKIRSNRVIELPLRPLLS  
RDCRDLLQRLLERDPSRRISFQDFFAHPWVDLEHMPSGESLGRATALVVQAVKKDQEGDS  
AAALSLYCKALDFFVPALHYEVDAQRKEAIKAKVGQYVSRAEELKAIVSSSNQALLRQGT  
SARDLLREMARKPRLLAALEVASAAMAKEEAAGGEQDALDLYQHSLGELLLLLAAEPPG  
RRRELLHTEVQNLMARAEYLKEQVKMRRESRWEADTLDKEGLSESVRSCTLQ

>sp|Q6ZN44|UNC5A\_HUMAN Netrin receptor UNC5A OS=Homo sapiens GN=UNC5A PE=1 SV=3

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VLLVCKAVPATQIFFKCNGEWVRQVDHVIERSTDGSSGLPTMEVRINVSQQVEKVFGLE  
EYWCQCVAWSSSGTTKSQKAYIRIAYLRKNFEQEPLAKEVSLEQGIVLPCRPEGIPPAE  
VEWLRNEDLVDPSPDNVYITREHSLVVRQARLADTANYTCVAKNIVARRRSASAAVIVY  
VDGWSWPWSKWSACGLDCTHWSRECSDPAPRNGGEECQGTDLDRNCTSDLCVHTASGP  
EDVALYVGLIYAVAVCLVLLLLVILVYCRKKEGLSDSDADSSILTSGFQPVSIKPSKADN  
PHLLTIQPDLSTTTTTYQGLCPRQDGPSPKFQLTNGHLLSPLGGGRHTLHHSSPTSEAE  
EFVSRLSTQNYFRSLPRGTSNMTYGTNFGRLMIPNTGISLLIPPDAIPRDKIYEIYL  
TLHKPEDVRLPLAGCQTLLSPIVSCGPPGVLLTRPVILAMDHCGEPSPDWSLRLKKQSC  
EGSWEDVLHLGEEAPSHLYYCQLEASACYVFTEQLGRFALVGEALSVAANKRLKLLFAP  
VACTSLEYNIRVYCLHDTHDALKEVVQLEKQLGGQLIQEPRVLHFKDSYHNLRSLIHDVP  
SSLWKSLLVSYQEIPFYHIWNGTQRYLHCTFTLERVSPSTDLACKLWVWQVEGDGQSF  
SINFNITKDRFAELLALESEAGVPALVGPSAFKIPFLIRQKIISSLDPPCRRGADWRTL  
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EC

>sp|Q8IZJ1|UNC5B\_HUMAN Netrin receptor UNC5B OS=Homo sapiens GN=UNC5B PE=1 SV=2

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KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVEEL  
FGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPEGV  
PVAEVEWLKNEDVIDPTQDTNFLTIDHNLIRQARLSDTANYTCVAKNIVAKRRSTTAT  
VIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRCTNPAPLNGGAFCEGQAFQKTACTTICP  
VDGAWEWSKWSACSTECAHWSRECMAPPQNGGRDCSGTLLDSKNCTDGLCMQNKCTL  
SDPNSHLLEASGDAALYAGLVVAIFVVVAIILMAVGVVYRRNCRDFDTIDTSSAALTGG  
FHPVNFKTARPSNPQLLHPSVPPDLTASAGIYRGPVYALQDSTDKIPMTNSPLLDPLPSL  
KVKVYSSSTTGSGPLADGADLLGVLPPTYPSDFARDTHFLHLSASLGSQQLGLPRD  
PGSSVSGTFGCLGGRLSIPGTGVSLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQTV  
LSPSVTCGPTGLLCRPVILTMPHCAEVSARDWIFQLKTQAHQGHWEVVTLDEETLNTP  
CYCQLEPRACHILLDQLGTIVFTGESYSRSYKRLQLAVFAPALCTSLEYSRVYCLEDT  
PVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRSLHDLPHAHWSKLLAKYQEIPFY  
HIWGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHTTLAETPAGSLDTLC  
SAPGSTVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYLNYFATKA  
SPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC

>sp|O95185|UNC5C\_HUMAN Netrin receptor UNC5C OS=Homo sapiens GN=UNC5C PE=2 SV=2

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LPHFLIEPEEAYIVKNKPVNLYCKASPATQIYFKCNSEWVHQKHIVDERVDETSGLIVR

EVSI EISRQQVEELFGPEDYWCQVAVSSAGTTKSRKAYVRIAYLRKTFEQEPLGKEVSL  
EQEVLLQCRPPEGIPVAEEVWLKNEDIIDPVEDRNFYITIDHNLIIKQARLSDTANYTCV  
AKNIVAKRKSTTATIVIVYVNGGWSTWTEWSVCNSRCGRGYQKRTRCTNPAPLNGGAFCE  
GQSVQKIACTTLCPVDGRWTPWSKSWSTCGTECTHWRRRECTAPAPKNGGKDCDGLVLQSK  
NCTDGLCMQTAPDSDVALYVGIVIAVIVCLAISVVVALFVYRKNHRDFESDIIDSSALN  
GGFQPVNIKAARQDLLAVPPDLTSAAAMYRGPVYALHDVSDKIPMTNSPILDPLPNLKIK  
VYNTSGAVTPQDDLSEFTSKLSPQMTQSLLENEALSLKNQSLARQTDPSCTAFGSFNLSG  
GHLIVPNSGVSLIPAGAI PQGRVYEMYVTVHRKETMRPPMDDSQTLLTPVVSCGPPGAL  
LTRPVVLTMMHCADPNTEWDKILLKNQAAQGGWEDVVVVGEEFNTPCYIQLDAEACHIL  
TENLSTYALVGHSTTKAAAKRLKLAIFGPLCCSSLEYSIRVYCLDDTDALKEILHLERQ  
MGGQLLEEPKALHFKGSTHNLRLSIH DIAHSLWKSLLAKYQEIPFYHVWSGSQRN LHCT  
FTLERFSLNTVELVCKLCVRQVEGEGQIFQLNCTVSEPTGIDLPLDPANTITTTVGPS  
AFSIPLPPIRQKLCSSLDAPQTRGHDWRMLAHKLNLDRYLNYFATKSSPTGVILDLWEAQN  
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>sp|Q6UXZ4|UNC5D\_HUMAN Netrin receptor UNC5D OS=Homo sapiens GN=UNC5D PE=1 SV=1

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QQVEDFHGPEDYWCQVAVSHLGTSKSRKASVRIAYLRKNFEQDPQGREVP IEGMIVLHC  
RPPEGVPAAEEVWLKNEEPIDSEQDENIDTRADHNLII RQARLSDSGNYTCMAANIVAKR  
RSLSATVVVYVNGGWSSWTEWSACNVRCGRGWQKRSRTCTNPAPLNGGAFCEGMSVQKIT  
CTSLCPVDGSWEVWSEWSVCSPECEHLRIRECTAPPPRNGGKFCGLSQESENCTDGLCI  
LDKKPLHEIKPQSIENASDIALYSGLGA VAVAVLVIGVTLYRRSQSDYGV DVIDSSAL  
TGGFQTFNFKTVRQGNL LNSAMQPD LTVSR TYSGPICLQDPLDKELMTESSLFNPLSD  
IKVKVQSSFMVSLGV SERAEYHGKNHSRTFPHGNNHSFSTMHPRNKMPYIQNLSSLPTRT  
ELRTTG VFGHLGGRLVMPNTGVSL LI PHGA IPEENSWEIYMSINQGEPSLQSDGSEVLLS  
PEVTCGPPDMIVTTPFALTIPHCA DVSEHWN IHLKKRTQQGKWEEVMSVEDESTSCYCL  
LDPFACHVLLDSFGTYALTGEPITDCAVKQLKVAVFGCMSCNSLDYNLRVYCV DNTPCAF  
QEVVSDERHQGGQLLEEPKLLHFKGNTFSLQISVLDIP PFLWRIKPFTACQEV PFSRVWC  
SNRQPLHCAFS LERYTP TTTQLSCKICIRQLKGHEQILQVQTSILESERETITFFAQEDS  
TFPAQTGP KAFKIPYSIRQRICATFDTPNAKGKDWQMLAQKNSINRNLSYFATQSSPSAV  
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>sp|Q8N2C7|UNC80\_HUMAN Protein unc-80 homolog OS=Homo sapiens GN=UNC80 PE=1 SV=2

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LSPALSEAIQSI SRWELVQAALPHVLHCTATLLSNRNKLGHQDKLGVAETKLLHTLHWML  
LEAPQDCNNERFGGTDRGSSWGGSSSAFIHQVENQGSPGQPCQSSNDEEENRRKIFQN  
SMATVELFVFLFAPLVHRIKESDLTFR LASGLVIWQPMWEHRQPGVSGFTALVKPIRNI I  
TAKRSSPINSQSRTCESPNDARHLEGLQVVCETFQSDSISP KATISGCHRGNSFDGSL S  
SQTSQERGPSHSRASLVIPPCQRSRYATYFDVAVLRCLLQPHWSEGTQWSLMYYLQRLR  
HMLEEKPEKPPEPDIPLLPRPRSSMVAAAPSLVNTHKTQDLTMKCNEEEKSLSS EAFSK  
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DHLDVSPTRSTFSFGSFSGLGEDRRGIEKGGWQTTILGKLTRRGSSDAATEMESLSARHS  
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NQVPIPEMPHEPLACANLPRSLTDSCINYSYLEDTEHIDGTNNFVHKN GMLDLSVVLKAV  
YLVLNHDISSRICDVALNIVECLLQLGVVPCVEKNRKKSENKENETLEKRPSEGA FQFKG

VSGSSTCGFGGPAVSGAGDGGGEEGGGGDGGGGGGGGGGGGGGGGPYEKNDKNQEKDES  
TPVSNHRLALTMLIKIVKSLGCAYGCGEGHRGLSGDRLRHQVFRENAQNCLTKLYKLDKM  
QFRQTMRDYVVKDSLNNVDFLHALLGFCMEPVTDNKAGFGNNFTTVDNKSTAQNVEGII  
VSAMFKSLITRCASSTHELHSPENGLYCDIRQLVQFIKEAHGNVFRRVALSALLDSAEK  
LAPGKKVEENEQESKPAGSKRSEAGSIVDKGQVSSAPEECRSFMSGRPSQTPEHDEQMQG  
ANLGRKDFWRKMFKSQSAASDTSSQSEQDTSECTTAHSGTTSDRRARSRSRRISLRKKLK  
LPIGKRNLKRSSLSGLADGVEDLLDISSVDRLSFIRQSSKVKFTSAVKLSEGGPGSGME  
NGRDEEENFFKRLGCHSFDDHLSFNQDGGKSKNVVNLGAIRQGMKRFQFLNCCEPGTIP  
DASILAAALDLEAPVVARAALFLECARFVHRCNRGNWPEWMKGHHVNIKKGLSRGRSPI  
VGNKRNLQWNAAKLFYQWGDAIGVRLNELCHGESESPANLLGLIYDEETKRRLRKEDE  
EEDFLDDSTVNPSKCGPFALKMAACQLLEITTFLRETFSCLP RPTEPLVDLESCRLR  
LDPELDRHRYERKISFAGVLDENEDSKDSLHSSHTLKSADAGVEEKKEGSPWSASEPSIE  
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LPSPVLGMPSVPMFDPWPVQCSCSVQDPINEDQSKSFSARAVSRSHQRAEHILKNLQQE  
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HRNYSFRRGSVWSVRSASVAEDEEHTTEHTPNHHVPQPPQAVFPACICAAVLPIVHLMED  
GEVREDGVAVSAAQVVLWNCLIEDPSTVLRFLEKLTISNRQDELMYMLRKLLLNIGDF  
PAQTSHILFNLYLGLIMYFVRTPEWGMDAISATLTLWEVVGVEGLFFKDLKQTMKKE  
QCEVKLLVTASMPGKTLVHVGQNECDIPTQLPVHEDTQFEALLKECLEFFNIPESQSTH  
YFLMDKRWNLIHYNKTYVRDIYPFRRSVSPQLNLVHMHPKQELIQKQVFRKLEEVGR  
VLFLISLTQKIPTAHKQSHVSMQLQEDLLRLPSFPRSAIDAEFSLFSDPQAGKELFGLDTL  
QKSLWIQLLEEMFLGMPSEFPWGDEIMLFLNVFNGALILHPEDSALLRQYAATVINTAVH  
FNHLFSLSGYQWILPTMLQVSYDYESNPQLRQAIEFACHQFYILHRKPFVLQLFASVAPL  
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FSISEAIKLCVTVAYAPESFRSLQMLMVLEALVPCYLQKLKRQTSQVETVPAAREEIAA  
TAALATSLQALLYSEVLTTRPMAPQMSRCDQGHKGTTTANHTMSSGVNTRYQEQGAKLH  
FIRENLHLLLEGGQIPREELDERIAREEFRRPRESLLNICTEFYKHCGPRLKILQNLAGE  
PRVIALELLDVKSHMRLAEIAHSLLKLAPYDTQTMESRGLRRYIMEMPLITDWTAEAVRP  
ALILILKRLDRMFNKIHKMPTLRQVWEWEPASNIEGVCLTLQRQPIISFLPHRLSLINV  
CVNLVMGVVGPSSVADGLPLLHLSPLYLSPPLPFSTAVVRLVALQIQALKEDFPLSHVISP  
FTNQREREGMLNLLIPFVLTVGSGSKDSPWLEQPEVQLLLQTVINVLLPPRIISTSRSK  
NFMLESSPAHCSTPGDAGKDLRREGLAESTSQAAYLALKVILVCFERQLGSQWYWSLQV  
KEMALRKVGGLALWDFLDFIVRTRIPFVLLRPFIQCKLLAQPAENHEELSARQHIADQL  
ERRFIPRPLCKSSLIAEFNSELKILKEAVHSGSAYQGKTSISTVGTSTSAYRLSLATMSR  
SNTGTGTVWEQDSEPSQQASQDTLSRTDEEDEENDSISMPSVVSQEQAYLLSAIGRRRFS  
SHVSSMSVPQAEVGMPLSQSEPNVLDDSQGLAAEGSLSRVASIQSEPGQQNLLVQQLGR  
KRGLRQLRRPLLSRQKTQTEPRNRQGARLSTTRRSIQPKTKPSADQKRSVTFIEAQPEPA  
AAPTALPATGQLQGCSAPSRRKPEAMDEPVLTSSPAIVVADLHSVSPKQSENFPTEEGE  
KEEDTEAQGATAHSPLSAQLSDPDDFTGLETSSLLQHGDTVLHISEENG MENPLLSSQFT  
FTPTELGKTDVLDESHV

>sp|P13051|UNG\_HUMAN Uracil-DNA glycosylase OS=Homo sapiens GN=UNG PE=1 SV=2



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GT  
PPSSPLSAEQLDRIQRNKAALLRLAARNVPVGFGESWKKHLSGEFGKPYFIKLMGFVAE  
ERKHYTEVYPPPHQVFTWTQMCDIKDVKVILGQDPYHGPNQAHGLCFSVQRPVPPPSLE  
NIYKELSTDIEDFVHPGHGDLGWAKQGVLLNNAVLTVRAHQANSHKERGWEQFTDAVVS  
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QKSGKKPIDWKEL

>sp|Q5W0Q7|USPL1\_HUMAN SUMO-specific isopeptidase USPL1 OS=Homo sapiens GN=USPL1 PE=1  
SV=1

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LLA  
NSKKTRNYIAIDGGKVLNSKHNGEVYDETSSNLPDSSGQNPRTADSLERNEILEADTV  
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ILSALVHSEELKNTVTGLCSKEESIFWRLLTKYNQANTLLYTSQLSGVKDGDCKLTSEI  
FAEIEETCLNEVRDEIFISLQPLRCTLGDMESPVFAFPLLLKLETHIEKLFLYSFSDFE  
CSQCGHQYQNRHMKSLVTFTNVIPEWHPLNAAHFGPCNNCNSKSQIRKMVLEKVSPIFML  
HFVEGLPQNDLQHYAFHFEGCLYQITSVIQYRANNHFITWILDADGSWLECDDLKGPCSE  
RHKKFEVPASEIHIVIWERKISQVTDKEAACPLKKTNDQHALSNEKPVSLTSCSVGDAA  
SAETASVTHPKDISVAPRTLSQDTAVTHGDHLLSGPKGLVDNPLPLEETIQKTASVSQ  
LNSEAFLENKPVAENTGILKTNLTLSQESLMASVSAPCNEKLIQDQFVDISFPSQVVN  
TNMQSVQLNTEDTVNTKSVNNTDATGLIQGVKSVEIEKDAQLKQFLTPKTEQLKPERVTS  
QVSNLKKKETTADSQTTSKSLQNSLKENQKKPFVGSWVKGLISRGASFMPCLCVSAHNR  
NTITDLQPSVKGVNFFGGFKTGINQKASHVSKKARKSASKPPPIKPPAGPPSSNGTAA  
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EK  
KKLAALMSSPQSRTVRSENLEQVPQDGPNDCEIEDLLNELPYPIDIASSEACTVPGV  
SLYSSQTHEEILAEELSPTPVSTELSENEGDFRYLGMGDSHIPPPVPSEFNDVSQNTHL  
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>sp|Q15849|UT2\_HUMAN Urea transporter 2 OS=Homo sapiens GN=SLC14A2 PE=1 SV=3

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IVKIEKLNERSKRKDDGVAHRDSAGQRCICLSKAVGYLTGDMKEYRIWLKDKHLALQFID  
WVLRGTAQVMFINNPLSGLIIFIGLLIQNPWWTITGGLGTVVSTLTALALGQDRSAIASG  
LHGYNGMLVGLLMAVFSEKLDYWWLLFPVTFTAMSCPVLSSALNSIFSKWDLPVFTLPF  
NIAVTLYLAATGHYNLFFPTTLVEPVSSVPNITWTEMEMPLLLQAIPVGVGQVYGCDNPW  
TGGVFLVALFISSPLICLHAAIGSIVGLLAALSVATPFETIYTGLWSYNCVLSCIAIGGM  
FYALTWQTHLLALICALFCAYMEAAISNIMSVVGVPPGTWAFCLATIIIFLLLTNNPAIF  
RLPLSKVTYPEANRIYYLTVKSGEEEEKAPSGGGGEHPPTAGPKVEEGSEAVLSKHRSVFH  
IEWSSIRRRSKVFGKGEHQERQNKDPFPYRYRKPTVELLDLTMEESSEIKVETNISKTS  
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D  
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AAYLGAALANMLSVFGLPPCTWPFCLSALTFLLLTTNNPAIYKPLPSKVTYPEANRIYYL  
SQERNRRASIITKYQAYDVS

>sp|P11684|UTER\_HUMAN Uteroglobin OS=Homo sapiens GN=SCGB1A1 PE=1 SV=1

MKLAVTLTLVTLALCCSSASAEICPSFQRVIETLLMDTPSSYEAMELFSPDQDMREAGA  
QLKKLVDTLPQKPRESTIIKLMEKIAQSSLCN

>sp|Q9Y3A2|UTP11\_HUMAN Probable U3 small nucleolar RNA-associated protein 11 OS=Homo sapiens GN=UTP11 PE=1 SV=2

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KNPDEFYYKMTRVKLQDGVHIIKETKEEVTPEQLKLMRTQDVKYIEMKRVAEAKKIERLK  
SELHLLDFQGGKQKNKHVFFFDTKKEVEQFDVATHLQTAPELVDRVFNRPRIETLQKEKVK  
GVTNQTLGKRIAKERQKQYNCLTQRIEREKKLFVIAQKIQTRKDLMDKTQKVKVKKETVN  
SPAIIYKFQSRKR

>sp|Q8NHE4|VAOE2\_HUMAN V-type proton ATPase subunit e 2 OS=Homo sapiens GN=ATP6V0E2 PE=2 SV=1

MTAHSFALPVIIFTTFWGLVGIAGPWVFPKGPNGVIIITMLVATAVCCYLFWLIAILAQL  
NPLFGPQLKNETIWIYVRFLWE

>sp|Q08AM6|VAC14\_HUMAN Protein VAC14 homolog OS=Homo sapiens GN=VAC14 PE=1 SV=1

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ALSQHPHSRKGLIGLAACSIAGKDSGLYLKELIEPVLTCFNDADSRLRYACEALYNI  
VKVARGAVLPHFNVLFDGSLKLAADPDPNVKSSELLDRLLKDIVTESNKFDLVSFIPL  
RERIYSNNQYARQFIISWILVLESVPDINLLDYLPEILDGLFQILGDNGKEIRKMCEVVL  
GEFLKEIKNPSSSVKFAEMANILVIHCQTDDLIQLTAMCWMREFIQLAGRVMPLPYSSGI  
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VLKWLHYLIKTPRKMFRHTDSLFPILLQTLSDSEDEVILKDLEVLAEIASSPAGQTDDP  
GPLDGPDLQASHSELQVPTPGRAGLLNTSGTKGLECSPSTPTMNSYFYKFMINLLKRFSS  
ERKLLLEVGRPFIIIRQLCLLLNAENIFHSMADILLREEDLKFASTMVHALNTILLTSTELF  
QLRNQLKDLKTLESQNLFCCLYRSWCHNPVTTVSLCFLTQNYRHAYDLIQKFGDLEVTVD  
FLAEVDKLVQLIECPIFTYLRLLQLLDVKNNPYLIKALYGLMLLPQSSAFQLLSHRLQCV  
PNPELLQTEDSLKAAPKSQKADSPSIDYAELLQHFEKVQNKHLEVRHQRSRGDHLDRRV  
VL

>sp|P68036|UB2L3\_HUMAN Ubiquitin-conjugating enzyme E2 L3 OS=Homo sapiens GN=UBE2L3 PE=1 SV=1

MAASRRLMKELEEIRKCGMKNFRNIQVDEANLLTWQGLIVPDNPPYDKGAFRIEINFP  
AEYFPKPPKITFTKIYHPNIDEKGQVCLPVISAENWKPATKTDQVIQSLIALVNDPQPEHP  
LRADLAEYEYSKDRKKFCKNAEEFTKKYGEKRPVD

>sp|Q15819|UB2V2\_HUMAN Ubiquitin-conjugating enzyme E2 variant 2 OS=Homo sapiens GN=UBE2V2 PE=1 SV=4

MAVSTGVKVPNRNFRLLLEELEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYEN  
RIYSLKVECGPKYPEAPPSVRFTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVVQ  
ELRRLMMSKENMKLPQPPEGQTYNN

>sp|P22314|UBA1\_HUMAN Ubiquitin-like modifier-activating enzyme 1 OS=Homo sapiens GN=UBA1 PE=1 SV=3

MSSSPLSKRRVSGPDPKPGSNCSAQSVLSEVPSVPTNGMAKNGSEADIDGLYSRQLY  
VLGHEAMKRLQTSSVLVSLGRGLGVEIAKNIILGGVKAVTLHDQGTAWADLSSQFYLRE  
EDIGKNRAEVSQPRLAELNSYVPVTAYTGPLVEDFLSGFQVVVLTNTPLEDQLRVGEFCH

NRGIKLVVADTRGLFGQLFCDFGEEMILTDSNGEQPLSAMVSMVTKDNPGVVTCLDEARH  
GFESGDFVSFSEVQGMVELNGNQPMIEIKVLGPYTFSICDTSNFSQDYIRGGIVSQVKVPPK  
ISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVA  
LAQAVNARALPAVQQNNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVMAKACSGKFMP  
MQWLYFDALECLPEDKEVLTEKCLQRQNRDYGQVAVFGSDLQEKLGKQKYFLVGAGAIG  
CELLKNFAMIGLGCGEIIVTDMDTIEKSNLNRQFLFRPVDVTKLSDTAAAVRQMN  
PHIRVTSNQNRVGPDTIRIYDDDFQNLGDVANALDNVDARMYMDRRCVYRKPLLESGT  
LGTGKGVVQVVPFLTESYSSSQDPPEKSIPICLKNFPNAIEHTLQWARDEFEGFLFKQPA  
ENVNQYLTDPKFVERTLRLAGTQPLEVLEAVQRSLVLRPQTWADCVTWACHHWTQYSN  
NIRQLLHNFPPDQLTSSGAPFWSGPKRCPHPLTFDVNNPLHLDYVMAAANLFAQTYGLTG  
SQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSDPKLP  
GFKMYPIDFEKDDSNFHMDFIVAASNLRAENYDIPSADRHKSGLIAGKIIPAIATTTAA  
VVGLVCELELYKVVQGHRQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEV  
QGLQPNGEEMTLKQFLDYFKTEHKLITMLSQGVSMYSSFFMPAAKLERLDQPMTEIVS  
RVSKRKLGRHVRALVLELCCNDESGEDVEVPYVRYTIR

>sp|AOAVT1|UBA6\_HUMAN Ubiquitin-like modifier-activating enzyme 6 OS=Homo sapiens GN=UBA6  
PE=1 SV=1

MEGSEPVAAHQGEESCSWGSGSTNKNLPIMSTASVEIDDALYSRQRYVLGDTAMQKMA  
KSHVFLSGMGGGLGLEIAKNLVLGKAVTIHDTCKQAWDLGTNFFLSEDDVNVKNRRAE  
AVLKHIAELNPYVHVTSSSVFNFNETDLSFLDKYQCVVLTMLKPLQKKINDFCRSQCPP  
IKFISADVHGIWSRLFCDFGDEFVLDTTGEEPKEIFISNITQANPGIVTCLENHPHKLE  
TGQFLTREINGMTGLNGSIQITVISPFSSSIGDTTELEPYLHGGIAVQVKTPKTVFFE  
SLERQLKHPKCLIVDFSNEPEALEIHTAMLALDQFQEKYSRKNVGCQQDSEELLKLATS  
ISETLEEKPDVNADIVHWSWTAQGFLSPLAAAVGGVASQEVLKAVTGKFSPLCQWLYLE  
AADIVESLKGPECEFLPRGDRYDALRACIGDTLCQKLQNLNIFLVGCGAIGCEMLKNFA  
LLGVGTSKEKGMTITVDPDLIEKSNLNRQFLFRPHHIQPKSYTAADATLKINSQIKIDA  
HLNKVCPTTETIYNDEFYTKQDVIIITALDNVEARRYVDSRCLANLRPLLDSGTMGTGHT  
EVIVPHLTESYNSHRDPPEEIPFCTLSFPAAIEHTIQWARDKFESSFSHKPSLFNKF  
QTYSSAEVLQKIQSGHSLEGCFQVIKLLSRPRNWSQCVELARLKFEKYFNHKAQLLH  
CFPLDIRLKDGSFLWQSPKRPPSPIKFDLNEPLHLSFLQNAKLYATVYCIPFAEEDLSA  
DALLNILSEVKIQEFKPSNKVVQTDETARKPDHVPISSEDERNAIFQLEKAILSNEATKS  
DLQMAVLSFEKDDDHNGHIDFITAASNLRAKMYSIEPADRFKTKRIAGKIIPAIATTTAT  
VSGLVALEMIKVTGGYPFEAYKNCFLNLAIPVVFTEVTRKTKIRNGISFTIWRWTV  
HGKEDFTLLDFINAVKEYGIEPTMVVQGVKMLYVPVMPGHAKRLKLTMHKLKVPTEKK  
YVDLTVSFAPDIDGEDLPGPPVRYFSDTD

>sp|POCG48|UBC\_HUMAN Polyubiquitin-C OS=Homo sapiens GN=UBC PE=1 SV=3

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDY  
NQKSTLHLVLRRLRGGMQIFVKLTGTITLEVEPSDTIENVKAKIQDKEGIPPDQQLI  
FAGKQLEDGRTLSDYNIQKSTLHLVLRRLRGGMQIFVKLTGTITLEVEPSDTIENVK  
AKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKSTLHLVLRRLRGGMQIFVKLTGT  
ITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKSTLHLVLR  
LRGGMQIFVKLTGTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTL  
SDYNIQKSTLHLVLRRLRGGMQIFVKLTGTITLEVEPSDTIENVKAKIQDKEGIPPDQ  
QLIFAGKQLEDGRTLSDYNIQKSTLHLVLRRLRGGMQIFVKLTGTITLEVEPSDTIE

NVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTL  
TGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKESTLH  
LVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLED  
GRTLSDYNIQKESTLHLVLRRLRGGV

>sp|Q9BZL1|UBL5\_HUMAN Ubiquitin-like protein 5 OS=Homo sapiens GN=UBL5 PE=1 SV=1  
MIEVVCNDRLGKKVRVKCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTIFKDHVSLGDY  
EIHGGMNLELYYQ

>sp|Q96RU2|UBP28\_HUMAN Ubiquitin carboxyl-terminal hydrolase 28 OS=Homo sapiens GN=USP28  
PE=1 SV=1

MTAELQQDDAAGAADGHGSSCMLLNQLREITGIQDPSFLHEALKASNGDITQAVSLLTD  
ERVKEPSQDTVATEPSEVEGSAANKEVLAKVIDLTHDNKDDLQAAIALSLESPIQADG  
RDLNRMHEATSAETKRKRKRCEVWGENPNPNDRWRVDGWVGLKNVGNTCWFSAVIQSL  
FQLPEFRRLVLSYSLPQNVLENCRSHTEKRNIMFMQELQYLFALMMGSNRKFVDPSAALD  
LLKGAFRSSEEQQQDVSEFTHKLLDWLEDAFQLAVNVNSPRNKSENPMVQLFYGTFLTEG  
VREGKPFCCNETFGQYPLQVNGYRNLDCELEGAMVEGDVELLPDHSVKYGQERWFTKLP  
PVLTFELSRFEFNQSLGQPEKIHKNLEFPQIIYMDRYMYRSKELIRNKRECIRKLKEEIK  
ILQQKLERYVKYSGSPARFPLPMLKYVIEFASTKPASESCPPESDTHMTLPLSSVHCSV  
SDQTSKESTSTESSQDVESTFSSPEDSLPKSKPLTSSRSSMEMPSQPAPRTVTDEEINF  
VKTCLQRWRSEIEQDIDLKTCIASTTQTIEQMYCDPLLQVPYRLHAVLVHEGQANAGH  
YWAYIYNQPRQSWLYNDISVTESSWEEVERDSYGGLRNV SAYCLMYINDKLPYFNAEAA  
PTESDQMSEVEALSVELKHYIQEDNWRFEQEVEEWEQESCKIPQMESSTNSSSQDYSTS  
QEPSVASSHGVRLSSEHAVIVKEQTAQAIANTARAYEKSGVEAALSEVMLSPAMQGVIL  
AIAKARQTFDRDGSEAGLIKAFHEEYSRLYQLAKETPTSHSDPRLQHVLVYFFQNEAPKR  
VVERTLLEQFADKNLSYDERSISIMKVAQAKLKEIGPDDMNMEYKWHEDYSLFRKVS  
YLLTGLELYQKGYQEALS YLVAYQSNAALLMKGPRRGVKESVIALYRRKCLELNAKA  
ASLFETNDHSHVTEGINVMNELIIPC IHLI INNDISKDDLDAIEVMRNHWCSYLGQDIAE  
NLQLCLGEFLPRLLDPSAEIIVLKEPPTIRPNSPYDLCSRFAAVMESIQGVSTVTVK

>sp|075604|UBP2\_HUMAN Ubiquitin carboxyl-terminal hydrolase 2 OS=Homo sapiens GN=USP2  
PE=1 SV=2

MSQLSSTLKRYTESARYTDAHYAKSGYGAYTPSSYGANLAASLLEKEKLGFKPVPTSSFL  
TRPRTYGPSSLLDYDRGRPLLRPDITGGGKRAESQTRGTERPLGSLSGGSGFPYGVTTN  
CLSYLPINAYDQGVTLTQKLDSDSLARDFSSLRTSDSYRIDPRNLGRSPMLARTKELC  
TLQGLYQTASCPEYLV DYLENYGRKGSASQVPSQAPPSRVPEIISPTYRPIGRYTLWETG  
KGQAPGPSRSSSPGRDGMNSKSAQGLAGLRNLGNTCFMNSILQCLSNTREL RDYCLQRLY  
MRDLHHGSNAHTALVEEFAKLIQTIWTS SPNDVVPSEFKTQIQRYAPRFVGYNQDAQE  
FLRFLLDGLHNEVNRVTLRPKSNPENLDHLPDDEKGRQMWRKYLEREDSRIGDLFVGQLK  
SSLTCTDCGYCSTVDFPFDLSLPIAKRGYPEVTLMDCMRLFTKEDVLDGDEKPTCCRCR  
GRKRCIKKFSIQRFPKILVLHLKRFSESRI RTSKLTTFVNFPLRDLDLREFASENTNHAV  
YNLYAVSNHSGTTMGGHYTAYCRSPGTGEWHTFNDSSVTPMSSSQVRTSDAYLLFYELAS  
PPSRM

>sp|Q9H9J4|UBP42\_HUMAN Ubiquitin carboxyl-terminal hydrolase 42 OS=Homo sapiens GN=USP42  
PE=1 SV=3

MTIVDKASESSDPSAYQNQPGSSEAVSPGDMAGSASWGAVSSSLNDVSNHTLSLGPVPGA  
VYSSSSVPDKSKPSPQKDQALGDGIAPPQKVLFPSEKICLKWQQTHRVGAGLQNLGNTC

FANAALQCLTYTPPLANYMLSHEHSKTCHAEFGCMCTMQAHITQALSNPGDVIKPMFVI  
NEMRRIARHFRFGNQEDAHEFLQYTV DAMQKACLNGSNKLD RHTQATTLVCQIFGGY LRS  
RVKCLNCKGVSDTFDPYLDITLEIKAAQSVNKALEQFVKPEQLDGENSYKCSKCKKMVPA  
SKRFTIHRSSNVLTL SLKRFANFTGGKIAKDV KYPEYLDIRPYMSQPNGEPIVYVLYAVL  
VHTGFNCHAGHYFCYIKASNGLWYQMND SIVSTSDIRSVLSQQAYVLFYIRSHDVKN GGE  
LTHPTHSPGQSSPRPVISQRVVTNKQAAPGFIGPQLPSHMIKNPPHLNGTGPLKDT PSSS  
MSSPNGNSSVNRASPVNASASVQNW SVNRSSV IPEHPKKQKITISIHNKLPVRQCQS QPN  
LHSNSLENPTKPVPSSTITNSAVQSTSNASTMSVSSKVTKPIRSESCSQPVMNGSKLN  
SSVLVPYGAESSEDSDEESKGLGKENGIGTIVSSHSPGQDAEDEEATPHELQEPMTLNGA  
NSADSDSDPKENGLAPDGASCQGQPALHSENPFAKANGLPGKLMPAPLLSLPEDKILETF  
RLSNKLKGSTDEMSAPGAERGGPEDRDAEPQPGSPA AESLEEPDAAAGLSSTKKAPPPRD  
PGTPATKEGAWEMA VAPEEPPPSAGEDIVGDTAPPDLCDPGSLTG DASPLSQDAKG MIA  
EGPRDSALAEAEGLSPAPPARSEEPCEQPLL VHPSGDHARDAQDPSQSLGAPEAAERPP  
APVLDMAPAGHPEGDAEPSPGERVEDAAAPKAPGSPAKEKIGSLRKVDRGHYRSRRERS  
SSGEPARESRSKTEGHRHRRRRTCPRERDRQDRHAPEHHPGHGDRLSPGERRSLGRCSHH  
HSRHRSGVELDWVRHHYTEGERGWGREKFYPDRPRWDRCRYYH DRYALYAARDWKPFHGG  
REHERAGLHERPHKDHNRRRGCEPARERERHRPSSPRAGAPHALAPHPDRFSDRTALV  
AGDNCNLSDRFHEHENGKSRKRRHDSVENS DSHVEKKARRSEQKDPLEEPKAKKHKKSKK  
KKKSKDKHRDRDSRHQQDSDL SAACSDADLHRHKKKKKKKKRHSRKSEDFVKDSELHLPR  
VTSLETVAQFRAAQGGFPLSGGPPL EGVPFREKTKHLRMESRDDRCRLFEYGGQKR RYL  
ELGR

>sp|Q70EL2|UBP45\_HUMAN Ubiquitin carboxyl-terminal hydrolase 45 OS=Homo sapiens GN=USP45  
PE=1 SV=3

MRVKDPTKALPEKAKRSKRPTVPHDEDSDDIAVGLTCQHVS HAI SVNHV KRAIAENLWS  
VCSECLKERRFYDGGQLVLTSDIWLCLKCGFQCGKNS ESQHSLKHFKSSRTEPHCIIINL  
STWIIWCYECDEKLSTHCNKKVLAQIVDFLQKHASKTQTSAFSRIMKLC EEK CETDEIQK  
GGKCRNLSVRGITNLGNTCFFNAV MQNLAQTYTLTDL MNEIKESSTKLKIFPSSDSQLDP  
LVVELSRPGPLTSALFLFLHSMKETEKGPLSPKVLFNQLCQKAPRFKDFQQQDSQELLHY  
LLDAVRTEETKRIQASILKAFNNPTTKTADDETRKKVKAYGKEGVKMNFIDRIFIGELTS  
TVMCEE CANISTVKDPFIDISLPIIEERVSKPLLWGRMNKYRSLRETDH DRYSGNVTIEN  
IHQPRAAKKHSSSKDKSQLIHDRKCIRKLSSGETV TYQKNENLEMNGDSL MFASLMNSES  
RLNESPTDDSEKEASHSESNDADSE PSESESASKQTGLFRSSSGSGVQPDGPLYPLSAG  
KLLYTKETDSGDKEMAE AIS ELRLSSTVTGDQDFDRENQPLNISNNLCFLEGKHLRSYSP  
QNAFQTL SQSYITTSKECSIQSCLYQFTSMELLMGNNKLLCENCTKNKQKYQEETSFAEK  
KVEGVYTNARKQLLISAVPAVLILHLKRFHQAGLSLRKVN RHVDFPLMLDLAPFCSATCK  
NASVGDKVLYGLY GIVEHSGSMREGHYTAYVKVRTPSRKLSEHNTKKKNVPGLKAADNES  
AGQWVHVSDTYLQVVPESRALSAQAYLLFYERVL

>sp|Q70EK8|UBP53\_HUMAN Inactive ubiquitin carboxyl-terminal hydrolase 53 OS=Homo sapiens  
GN=USP53 PE=1 SV=2

MAWVKFLRKPGGNLKVYQPGSMLSLAPTKGLLNEPGQNSCFLNSAVQVLWQLDIFRRSL  
RVLTGHVCQGDACIFCALKTIFAQFQHSREKALPSDNIRHALAESFKDEQRFQLGLMDDA  
AECFENMLERIH FHI VPSRDADMCTSKSCITHQKFAMTLYEQCVCRCGASSDPLPFTF  
VRYISTTALCNEVERMLERHERFKPEMFAELLQAANTDDYRKCP SNCGQKIKIRRVLMN  
CPEIVTIGLVW DSEHSDLTEAVVRNLATHLYLPGLFYRVTDENAKNSELNLVGMICYTSQ

HYCAFAFHTKSSKWFFDDANVKEIGTRWKDVVSKCIRCHFQPLLLFYANPDGTAVSTED  
ALRQVISWSHYKSAENMGCEKPV IHKSDNLKENGFGDQAKQRENQKFPTDNISSSNRSH  
SHTGVGKGPAKLSHIDQREKIKDISRECALKAIEQKNLLSSQRKDLEKGQRKDLGRHRDL  
VDEDLSHFQSGSPAPNGFKQHGNPHLYHSQGKGSYKHDRVVPQSRASAQIISSSKSQIL  
APGEKITGKVKSDNGTGYD TDSSQDSRDRGNSCDSSSKSRNRGWKPMRETLNVDSIFSES  
EKRQHSPRHKPNISNKPSSKDPFSFNWPKENPKQKGLMTIYEDEMKEIGSRSSLESNG  
KGAENKGLVEGKVHGDNWQMQRTESGYESSDHISNGSTNLDSPVIDGNGTVMDISGVKE  
TVCFSDQITTSNLNKERGDCTSLQSQHHLEGFRKELRNLEAGYKSHEFHPESHLQIKNHL  
IKRSHVEDNGKLPSSSLQIPKDHNAHEIHQSDEQKLEKPNCKFSEWLNIENTERTG  
LPFHV DNSASGKRVNSNEPSSLWSSHLRTVGLK PETAPLIQQNIMDQCYFENSLSTECI  
IRSASRSDGCGMPKLFQCNLPPPLPPKYAITSVPQSEKSESTPDVKLTEVFKATSHLPK  
HSLSTASEPSLEVSTHMDNRHKETQVRECFGNTPNCPSSSSTNDFQANS GAIDAFQCP  
ELDSISTCPNETVSLTTYFSVDSCMTDTYRLKYHQRPKLSFPESGFCNNSLS

>sp|P40818|UBP8\_HUMAN Ubiquitin carboxyl-terminal hydrolase 8 OS=Homo sapiens GN=USP8  
PE=1 SV=1

MPAVASVPKELYLSSSLKDLNKKTEVKPEKISTKSYVHSALKIFKTAEECRLDRDEERAY  
VLYMKYVTVYNLIKRPDFKQQDYFHSILGPGNIKAVEEAERLSESLKLRYEAAEVRK  
KLEEKDRQEEAQLQKQRQETGREDDGGLAKGSENVLDSDKDTQKSNGEKNKCEKTEK  
GAITAKELYTMMTDKNISLIIMDARRMQDYQDSCILHSLSVPEEAISPGVTASWIEAHL  
DDSKDTWKKRGNVEYVLLDWFFSAKDLQIGTTLRSLKDALFKWESKTVLRNEPLVLEGG  
YENWLLCYPQYTTNAKVTPPPRRQNEEVSISLDFTYPSLEESIPSKPAAQTPPASIEVDE  
NIELISGQNERMGPLNISTPVEPVAASKSDVSPIIQPVPSIKNVPQIDRTKKPAVKLP  
EELRERQQEEQKEKLKEEQEQKAKKKQEAENEITEKQKAKEEMEKKESQAKKEDKET  
SAKRGKEITGVKRQSKSEHETSDAKKSVEDRGKRCPTPEIQKSTGDVPHTSVTGDSSG  
KPFKIKGPESGILRTGTREDTDDTERNKAQREPLTRARSEEMGRIVPGLPSGWAKFLD  
PITGTFRYYHSPNTNVHMYPPMAPSSAPPSTPPTHKAKPQIPAERDREPSKLKRSYSSP  
DITQAIQEEERKPTVTPTVNRENKPTCYPKAEISRLSASQIRNLNPVFGGSGPALTGLR  
NLGNTCYMNSILQCLCNAPHLADYFNRCYQDDINRSNLLGHKGEVAEEFGIIMKALWTG  
QYRYISPKDFKITIGKINDQFAGYSQQDSQELLLFLMDGLHEDLNKADNRKRYKEENNDH  
LDDFKAAEHAWQKHQLNESIIIVLFQGGFKSTVQCLTCHKKSRTFEAFMYLSLPLASTS  
KCTLQDCLRLFSKEEKLTDNNRFYCSHCRRRDSLKKIEIWKLPVLLVHLKRFSDYDGRW  
KQKLQTSVDFPLENLDLSQYVIGPKNNLKKYNLFSVSNHYGGLDGGHYTAYCKNAARQRW  
FKFDDHEVSDISVSSVKSSAAYILFYTSLGPRVTDVAT

>sp|Q8N806|UBR7\_HUMAN Putative E3 ubiquitin-protein ligase UBR7 OS=Homo sapiens GN=UBR7  
PE=1 SV=2

MAGAEGAAGRQSELEPVVSLVDVLEEEDELENEACAVLGGSDSEKCSYSQGSVKRQALYA  
CSTCTPEGEEPAGICLACSIECHGSHKLFELYTKRNFRCDCGNSKFNLECKLLPDKAKV  
NSGKNYDNFFGLYCICKRPPDPED EIPDEMIQCVCEDWFGHRLGAIPPESGDFQEM  
VCQACMKRCSFLWAYAAQLAVTKISTEDDGLVRNIDGIGDQEVIKPENGEHQDSTLKEDV  
PEQGKDDVREVKVEQNSEPCAGSSSES DLQTVFKNESLNAESKSGCKLQELKAKQLIKKD  
TATYWPLNWRSKLCTCQDCMKMYGDLVFLTDEYD TVLAYENKGKIAQATDRSDPLMDT  
LSSMNRVQQVELICEYNDLKTDLKDYLRKFADEGTVVKREDIQQFFEEFQSKKRRRV DGM  
QYYCS

>sp|Q9HAC8|UBTD1\_HUMAN Ubiquitin domain-containing protein 1 OS=Homo sapiens GN=UBTD1 PE=1 SV=1

MGNCVGRQRRERPAAPGHPKRAGRNEPLKKERLKWKSDYPMTDGLRSKRDEFWDTAPA  
FEGRKEIWDALKAAAYAAEANDHELAQAAILDGASITLPHGTLCECYDELGNRYQLPIYCL  
SPPVNNLLEHTEESLEPPEPPPSVRREFPLKVRLSTGKDVRLSASLPDVTGQLKRQLHA  
QEGIEPSWQRWFFSGKLLTDRTRLQETKIQKDFVIQVIINQPPPPQD

>sp|P68543|UBX2A\_HUMAN UBX domain-containing protein 2A OS=Homo sapiens GN=UBXN2A PE=1 SV=1

MKDVDNLKSIKEEWVCETGSDNQPLGNNQQSNCEYFVDSLFEAAQKVSSKCVSPAQQKKQ  
VDVNIKLWKNQFTVNDGFRSYSDGASQQFLNSIKKGELPSELQGFIDKEEVDVKVEDKKN  
EICLSTKPVFQPFSGQGHRLGSAATPKIVSKAKNIEVENKNNLSAVPLNNLEPITNIQIWL  
ANGKRIVQKFNIHVRSHIKDFIEKYQGSQSRPPFSLATALPVLRLLEDLTLEEDLQN  
AVIIQRLQKTASFRELSEH

>sp|095847|UCP4\_HUMAN Mitochondrial uncoupling protein 4 OS=Homo sapiens GN=SLC25A27 PE=2 SV=1

MSVPEEEERLLPLTQRWPRASKFLLSGCAATVAELATFPLDLTKTRLQMQGEAALARLGD  
GARESAPYRGMVRTALGIIIEEGFLKLWQGVTPAIYRHVVYSGGRMVTYEHLREVVFQKS  
EDEHYPLWKSIVIGGMAGVIGQFLANPTDLVKVQMQMEGKRKLEGKPLRFRGVHHAFAKI  
LAEGGIRGLWAGWVPNIQRAALVNMGDLTTYDVKHYLVNTPLEDNIMTHGLSSLCSGL  
VASILGTPADVIKSRIMNQPRDKQGRGLLYKSSTDCLIQAVQGEFMSLYKGFLPSWLRM  
TPWSMVFWLTYEKIREMSGVSPF

>sp|P22310|UD14\_HUMAN UDP-glucuronosyltransferase 1-4 OS=Homo sapiens GN=UGT1A4 PE=1 SV=1

MARGLQVPLPRLATGLLLLLSVQPAESGKVLVVPDGTSPWLSMREALRELHARGHQAVV  
LTPEVNMHIKEEKFFTLTAYAVPWTQKEFDRVTLGYTQGGFFETEHLKRYSRSMIMNNV  
SLALHRCCVELLHNEALIRHLNATSFDDVLTDPVNLGAVLAKYLSIPAVFFWRYIPCDL  
DFKGTQCPNPSSYIPKLLTTNSDHMTFLQRVKNMLYPLALSYICHTFSAPYASLASELFQ  
REVSVVDLVSYASVWLFRGDFVMDYPRPIMPNMVFIGGINCANGKPLSQEFEAYINASGE  
HGIVVFSLGSVMSEIPEKKAMAIADALGKIPQTVLWRYTGRPSNLANTILVKWLPQND  
LLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTNLVLEMT  
SEDLLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAH  
DLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|P54855|UDB15\_HUMAN UDP-glucuronosyltransferase 2B15 OS=Homo sapiens GN=UGT2B15 PE=1 SV=3

MSLKWTSVFLLIQLSCYFSSGSCGKVLVWPTEYSHWINMKTILEELVQRGHEVTVLTTSSA  
STLVNASKSSAIKLEVYPTSLTKNYLEDLLKILDRWIYGVSKNTFWSYFSQLQELCWEY  
YDYSNKLCKDAVLNKKLMMKLQESKFDVILADALNPCGELLAELFNIPFLYSLRFSVGYT  
FEKNGGGFLFPSPYVPVVMSELSQMIIFMERIKNMIHMLYFDFWFQIYDLKKWDQFYSEV  
LGRPTTLFETMGKAEMWLIRTYWDFEFPRPFLPNVDFVGGHLCKPAKPLPKEMEETFVQSS  
GENGIVVFSLGSISMSEESANMIASALAIQIPQKVLWRFDGKKPNTLGSNTRYKWLQ  
NDLLGHPKTKAFITHGGTNGIYEAIYHGIPMVGIPLFADQHDNIAHMKAKGAALSVDIRT  
MSSRDLLNALKSVINDPVYKENVMKLSRIHHDQPMKPLDRAVFWIEFVMRHKGAKHLRVA  
AHNLTWYQYHSLDVIAFLACVATVIFIITKFCFLCFRKLAKKGGKKKKRD

>sp|094874|UFL1\_HUMAN E3 UFM1-protein ligase 1 OS=Homo sapiens GN=UFL1 PE=1 SV=2

MADAWEEIRRLAADFQRAQFAEATQRLSERNCIEIVNKLIAQKQLEVVHTLDGKEYITPA

QISKEMRDELHVRGGRVNIVDLQQVINVDL IHENRIGDI IKSEKHVQLVLGQLIDENYL  
DRLAEEVNDKLQESGQVTISELCKTYDLPGNFLTQALTQRLGRIISGHIDLNRGVIFTE  
AFVARHKARIRGLFSAITRPTAVNSLISKYGFQEQLLYSVLEELVNSGRRLRGTVVGGRRQD  
KAVFVPDIYSRTQSTWVDSFFRQNGYLEFDALSRLGIPDAVSYIKKRYKTTQLLFLKAAC  
VGQGLVDQVEASVEEAISSGTWVDIAPLLPTSLSVEDAAILLQQVMRAFSKQASTVVFSD  
TVVVSEKFINDCTELFRELHMQAEKEMKNNPVHLITEEDLKQISTLESVSTSKKDKKDE  
RRRKATEGSGSMRGGGGGNAREYKIKKVKKKGRKDDSDDESQSSHTGKKKPEISFMFQD  
EIEDFLRKHIQDAPEEFISELAEYLIKPLNKTYLEVVRSVFMSSTTSASGTGRKRTIKDL  
QEEVSNLYNNIRLFEKGMKFFADDTQAALTKHLLKSVCTDITNLIFNFLASDLMAVDDP  
AAITSEIRKKILSKLSEETKVALTKLHNSLNEKSIEDFISCLDSAAECDIMVKRGDKKR  
ERQILFQHRQALAEQLKVTEDPALILHLTSVLLFQFSTHSMHAPGRCVPQIIAFLNSKI  
PEDQHALLVKYQGLVVKQLVSQSKKTGQGDYPLNNELDKEQEDVASTTRKELQELSSSIK  
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>sp|P61960|UFM1\_HUMAN Ubiquitin-fold modifier 1 OS=Homo sapiens GN=UFM1 PE=1 SV=1  
MSKVSFKITLTS DPRLPYKLVSPPESTPFTAVLKFAAEFEKVPAATSAIITNDGIGINPA  
QTAGNVFLKHGSELRIIPRDRVGSC

>sp|Q9NUQ7|UFSP2\_HUMAN Ufm1-specific protease 2 OS=Homo sapiens GN=UFSP2 PE=1 SV=3  
MVISSEMDILFRIRGGDLAFQLATPNEIFLKKALKHVLSDLSTKLSSNALVFRICHSSV  
YIWPSSDINTIPGELTDASACKNILRFIQFEPEEDIKRKFMKKDKKLSDMHQIVNIDLM  
LEMSTSLAAVTPIIERESGGHHYVNMTPVDAVISVAPEETWGKVRKLLVDAIHNLQDTM  
EKCILKYMKGTSIVVPEPLHFLLPGKKNLVTISYPSGIPDGQLQAYRKELHDLFNLPHDR  
PYFKRSNAYHFPDEPYKGYIRNPHTYLNPPNMETGMIYVVQGIYGYHHYMQDRIDDNGW  
GCAYRSLQTICSWFKHQGYTERSIPTHREIQQALVDAGDKPATFVGSRWIGSIEVQLVL  
NQLIGITSKILFVSQGSEIASQGRELANHFQSEGTPVMIGGGVLAHTILGVAWNEITGQI  
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>sp|Q9H3U1|UNC45A\_HUMAN Protein unc-45 homolog A OS=Homo sapiens GN=UNC45A PE=1 SV=1  
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PEMTFPGERIYEVVRPLVSLHLNCSGLQNFEALMALTNLAGISERLRQKILKEKAVPMI  
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>sp|A6NJTO|UNC4\_HUMAN Homeobox protein unc-4 homolog OS=Homo sapiens GN=UNCX PE=3 SV=1  
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SCAAAASVVNPTPLPAACGVGGDQPFKLSDSGDPDKESPGCKRRRTRTNFTGWQLEEL  
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RPADKDAASCGPAAVAVERGAAGLPKASPFVESLLSDSPRRKAASNAAAAAAGLD  
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TAGPAPPPAPSPRPGPRPPSPAEEPATCGVPEPGAAAGPSPEGEELDM

>sp|Q53HI1|UNC50\_HUMAN Protein unc-50 homolog OS=Homo sapiens GN=UNC50 PE=1 SV=2

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DCVGVGLLIATLMWFI SNKYLVKRQSRDYDVEWGYAFDVHLNAFYPLLVLHFIQLFFIN  
HVILDTFIGYLVGNTLWLAVGYIYVTFGLGYSALPFLKNTVILLYPFAPLILLYGLSL  
ALGWNFTHTLCSFYKYRVK

>sp|Q9P2D8|UNC79\_HUMAN Protein unc-79 homolog OS=Homo sapiens GN=UNC79 PE=2 SV=4

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CQLECLMKYQEVWKDLLYVIAYGPSQVKPPAVQMLFHYWPNLKPPGAISEYRGLQYTA  
WNPIHCQHIECHNAINKPAVKMCIDPSLSVALGDKPPPLYLCEECSERIAGDHSEWLIDV  
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ETHLYQTSPPPINTRECGAEELVCAVEAVISLLKEAEFHAEQREHLENRRRQLGLSSSHH  
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MDDEVGSLVEKLPKFVTKWLKTVCDVRFDVMVCLLPKPMEFARVGGYWDKSCSTVTQL  
KEGLNRILCLIPYVINQSVWECIMPEWLEAIRTEVPDNQLKEFREVL SKMFDIELCLP  
FSMEEMFGFISCRFTGYPSVQEALLWLHVLSELDIMVPLQLLISMFDGVNSVKELAN  
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HPGGRTIDFDCEDDEMNLNCFILMFDLLKQMELODDGITMGLEHSLSKDIISIINN VFQ  
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RPEFIIIGPEGEEEEENPASKHGENPGNCTEPVEHA AVKNDTERKFCYQQLPVTLRLIYITIF  
QEMAKFEEDILFNMLNCLKILCLHGECLYIARKDHPQFLAYIQDHMLIASLWRVVKSEF  
SQLSSLAVPLLLHALSLPHGADIFWTIINGNFNSKDWKMRFEAVEKVAVICRFLDIHSVT  
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RPTILSKLLLLHFLKQDIPALSWEFFVNRFETLSLEAQLHLDCKNEFPFPTTITAVRTNV  
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QPPRCSLWSLKPHIRQMWLKALLVILYKYPYRCDISKILLHLIHITVNTLNAQYHSCKP  
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SLDIGNADSLFLTDEHRRKSCIDRCDIEKPPTQAAYIAQRPNDPGRSRQNSATRPDNSE  
IPENPAMEGFPDARRPVIPEVRLNCMETFEVKVDSPVKPAPKEDLDLIDLSSDSTSGPEK  
HSILSTS DSDSLVFEPLPLRIVESDEEEETMNQGGDGP SGKNAASSPSVPSHPSVLSLS  
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LTLKQKRDLLQKSFALPEMSLDDHPDPGTEGKPGELMPSSGAKTVLLKVPEDAENPTES  
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DKLGEQKDPDPSTKGLSTLEMPRESSAPTLDAGVPETSSHSSISTQYRQMKRGS LGVLT  
MSQLMKRQLEHQSSAPHNISNWDTEQIQPGKRQCNVPTCLNPDLEGQPLRMGATKSSLL  
SAPSIVSMFVPAPEEFTDEQPTVMTDKCHDCGAILEEYDEETLGLAIVVLSTFIHLSPDL  
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LPMDSPSSLWTTISNQFQTFFAKLPCVLPLKCSLDSSLRIMICLLKIPSTNATRSLLPEF  
SKLLSFVIQNAVFTLAYLVELCGLCYRAFTKERDKFYLSRSVVLELLQALKLKSPLPDN  
LLLLVQFICADAGTKLAESTILSKQMIASVPGCGTAAMECVRQYINEVLDFMADMHTLTK  
LKSHMKTCSQPLHEDTFGGHLKVGLAQIAAMDISRGNHRDNKAVIRYLPWLYHPPSAMQQ  
GPKEFIECVSHIRLLSWLLGLTHNAVCPNASSPCLPIPLDAGSHVADHLIVILIGFPE  
QSKTSVLHMCSLFHAFIFAQLWTVYCEQSAVATNLQNQNEFSFTAILTALEFWSRVTPSI  
LQLMAHNKVMVEMVCLHVISLMEALQECNSTIFVKLIPMWLPMIQSNIKHL SAGLQLRLQ  
AIQNHVNHHSRLTLP GSGQSSAGLAALRKWLQCTQFKMAQVEIQSSEAASQFYPL

>sp|Q9C0B0|UNK\_HUMAN RING finger protein unkempt homolog OS=Homo sapiens GN=UNK PE=1 SV=2

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CFHWHFVNQRRRRSIRRDGTFNYS PDVYCTKYDEATGLCPEGDECPFLHRTTGDTERRY  
HLRYYKTGICIHETDSKGNCTKNGLHCAFAHGPHDLRSPVYDIRELQAMEALQNGQTTVE  
GSIEGQSAGAASHAMIEKILSEEPRWQETAYVLGNYKTEPCKKPPRLCRQGYACPYHNS  
KDRRRSPRKHKYRSSPCPNVKHGDEWGDPGKCENG DACQYCHTRTEQQFHPEIYKSTKCN  
DMQQSGSCPRGPFCAFAHVEQPPLSDDLQPSSAVSSPTQPGPVLYMP SAAGDSVPVSPSS  
PHAPDLSALLCRNSSLGSPSNLCGSPPGSIRKPPNLEGIVFPGESGLAPGSYKKAPGFER  
EDQVGAEYLNKFKCQAKLKPHSLEPRSQEQLLPKQDMLGILPAGSPLTSSISSITSS  
LAATPPSPVGTSSVPGMNANALPFYPTSDTVESVIESALDDLNEFGVAALEKTFDNST  
VPHPGSITIGSLLQSSAPVNIPGSLGSSASFHSASPPVSLSSHFLQQPQGHSQSEN  
TFLGTSASHGSLGLNGMNSSIWEHFASGSFSPGTSPAFLSGPGAELARLRQELDEANST  
IKQWEESWKQAKQACDAWKKEAEAGERASAAGAECELAREQRDALEVQVKKLQEELERL  
HAGPEPQALPAFSDLEALSSTLYSLQKQLRAHLEQVDKAVFHMQSVKCLKCQEQKRAVL  
PCQHAALCELCAEGSECPICQPGRAHTLQS

>sp|Q03405|UPAR\_HUMAN Urokinase plasminogen activator surface receptor OS=Homo sapiens  
GN=PLAUR PE=1 SV=1

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ELVEKSCTHSEKTNRTLSYRTGLKITSLETVVCGLDLCNQNSGRAVTYSRSRYLECISC  
GSSDMSCERGRHQLQCRSPEEQCLDVVTHW IQEGEEGRPKDDRHLRGCGYLPGPCGSNG  
FHNNDTFHFLKCCNTTKCNEGP ILELENLPQNGRQCYSCKGNSTHGCSSEETFLIDCRGP  
MNQCLVATGTHEPKNQSYMVRGCATASMCQHAHLGDAFSMNHIDVSCCTKSGCNHPDL DV  
QYRSGAAPQPGPAHLSLTITLLMTARLWGGTLLWT

>sp|Q96HZ7|URAS1\_HUMAN Putative uncharacterized protein URB1-AS1 OS=Homo sapiens GN=URB1-  
AS1 PE=5 SV=1

MGRADTPRHPPPAAGFGVHRGAFLIPVALRVLLAGRTPRPFTPGLADPRRLGPRRVQAA  
Q

>sp|075385|ULK1\_HUMAN Serine/threonine-protein kinase ULK1 OS=Homo sapiens GN=ULK1 PE=1  
SV=2

MEPGRGGTETVGKFEFSRKDLIGHGAFVVFVKGRHREKHDLEVAVKCINKKNLAKSQTL  
GKEIKILKELKHENIVALYDFQEMANSVYLVMEYCNGGDLADYLHAMRTLSEDTIRLFLQ  
QIAGAMRLHSHKGIHRLDKPQNILLSNPAGRRANPNSIRVKIADFGFARYLQSNMMAAT  
LCGSPMYMAPEVIMSQHYDGKADLWSIGTIVYQCLTGKAPFQASSPQDLRLFYEKNTLV  
PTIPRETSAPLRQLLLALLQRNHKDRMDFDEFHHPFLDASPSVRKSPVPVPSYPSSGS  
GSSSSSSSTSHLASPPSLGEMQQLQKTLASPADTAGFLHSSRDSGGSKDSSCDTDDFVMV  
PAQFPGLVAEAPSAPPPDSLMCSGSSLVASAGLESHGRTPSPSPCCSSSPSPSGRAGP  
FSSSRCGASVPIPVPTQVQNYQRIERNLQSPTQFQTPRSSAIRRSGSTSPLGFARASPS  
PAHAEHGGVLARKMSLGGGRPYTPSPQVGTIPERPGWSGTPSPQGAEMRGRSPRPGSSA  
PEHSPRTSGLGCRLHSAPNLSDLHVVRPKLPKPTDPLGAVFSPPQASPPQPSHGLQSCR  
NLRGSPKLPDFLQRNPLPPILGSPTKAVPSFDFPKTPSSQNLALLARQGVMTPPRNRT  
LPDLSEVGPFGHQPGLPGLRPGEDPKGPFGRSFSTSRITDLLKAAFGTQAPDPGSTESL  
QEKPMEIAPSAGFGGSLHPGARAGGTSSPSPVVFTVGSPPSGSTPPQGPRTMFSAGPTG  
SASSARHLVPGPCSEAPAPELPAPGHGCSFADPITANLEGAVTFEAPDLPEETLMEQEH  
TEILRGLRFTLLFVQHVLEIAALKGSASEAAGGPEYQLQESVVDQISLLSREWGFAEQL  
VLYLKVAELLSSGLQSAIDQIRAGKLCSSTVKQVVRRLNELYKASVVSCQGLSLRLQRF  
FLDKQRLLDRIHSITAERLIFSHAVQMVQSAALDEMFAQHREGCVPRYHKALLLLEGLQHM  
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>sp|C9J7I0|UMAD1\_HUMAN UBAP1-MVB12-associated (UMA)-domain containing protein 1 OS=Homo sapiens GN=UMAD1 PE=3 SV=1

MTARGKTSDEANQPLETNKENSSSVTVSDPEMENKAGQTLNSSLMAELLSQVPTLAP  
HVLAVQGTITDLPDHLLSYDGSENLSRFWYDFTLENSVLCDS

>sp|O14795|UN13B\_HUMAN Protein unc-13 homolog B OS=Homo sapiens GN=UNC13B PE=1 SV=2

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SVEVWNKGLIWDTMVGTWVIALKTIRQSDEEGPGEWSTLEAETLMKDDEICGTRNPTPHK  
ILLDTRFELPFDIPEEEARYWYKWEQINALGADNEYSSQEESSQRKPLPTAAAQCSFEDP  
DSAVDDRSDYRSETSNSFPPPYHTASQPNASVHQFPVPVRSPQQLLLQGSSRDSCNDSM  
QSYDLDPERRAISPTSSSRYGSSCNVSQGSQLELDQYHEQDDHRETDSTHSCSSH  
SLSRDQGAGFGEQEKPLEVTGQAEKEACEPKEMKEDATTHPPDLVLQKDHFLGPQESF  
PEENASSPFTQARAHWIRAVTKVRLQLQEIPDDGDPQLPQWLPEGPAGGLYGIDSMPDLR  
RKKPLPLVSDLSLVQSRKAGITSAMATRTSLKDEELKSHVYKTLQALYPISTTPHNF  
EVWTATTPTYCYECEGLLWGIARQGMRCSECGVKCHEKCQDLLNADCLQRAAEKSKHGA  
EDRTQNIIMAMKDRMKIRERNKPEIFEVIRDVFTVNKAHVQQMKTQKQSVLDGTSKWSA  
KITITVCAQGLQAKDKTGSSDPYVTVQVSKTKKRTKIFGNLNPVWEEKFHFECNSSD  
RIKVRVWDEDDDIKSRVKQRLKRESDDFLGQTIIEVRTLSGEMDVWYNLEKRTDKSAVSG  
AIRLQISVEIKGEEKVAPYHVQYTCLENLFHYLTDIQSGGVRIPEARDDAWKVYFDE  
TAQEI VDEFAMRYGIESIYQAMTHFACLSKYMCPGVPVAVMSTLLANINAYYAHTTASTN  
VSASDRFAASNFGKERFVKLLDQLHNSLRIDLSTYRNFPAGSPERLQDLKSTVDLLTSI  
TFFRMKVQELQSPPRASQVVKDCVKAACLNSTYEYIFNNCHDLYSRQYQLKQELPPEEQGP  
SIRNLDFWPKLITLIVSII EEDKNSYTPVLNQFPQELNVGKVS AEVMWHLFAQDMKYALE  
EHEKDHLCASADYMNLFKVKWLHNEYVRDLPVLQGGVPEYPAWFEQFVLQWLDENEDVS  
LEFLRGALERDKKDFQQTSEHALFSCSVVDVFTQLNQSFETIRKLECPDPSILAHYMRR  
FAKTIGKVLQYADILSKDFPAYCTKEKLPCILMNNVQQLRVQLEKMFAMGGKELDLEA  
ADSLKELQVKLNTVLDEL SMVFGNSFQVRIDECVRQMA DILGQVRGTGNASPDARASAAQ

DADSVLRPLMDFLDGNLT FATVCEKTVLKRVLKELWRVVMNTMERMIVLPPLTDQGTGQ  
LIFTAAKELSHLSKLDHVMREETRNLTPKQCAVLDLALDTIKQYFHAGGNLKKTFLEK  
SPDLQSLRYALS LYTQTDTLIKTFVRSQTTQSGVDDPVGEVSIQVDLFTHPGTGEHKV  
TVKVVAANDLKWQTAGMFRPFVEVTMVGPHQSDKKRKFTTKSKSNNWAPKYNETFHFLG  
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>sp|Q70J99|UN13D\_HUMAN Protein unc-13 homolog D OS=Homo sapiens GN=UNC13D PE=1 SV=1

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KGILGKDVSGFSDPYCLLGIEQGVGVPGGSPGSRHRQKAVVRHTIPEEETHRTQVITQTL  
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DFLGNVVLRLQDLRCREDQWYPLEPRTETYPDRGQCHLQFQLIHKRRATSASRSQPSYTV  
HLHLQQLVSHEVTQHEAGSTWDGSLSPQAATVFLHATQKDLSDFHQSMAQWLAYSRL  
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KFVEDTCRLALVYCSLIKARARELSSGQKDQGQAANMLCVVNDMEQLRLVIGKLPAQLA  
WEALEQRVGAVLEQQQLQNTLHAQLQSALAGLGHEIRTGVRTLAEQLEVGI AKHIQKLVG  
VRESVLPEDAILPLMKFLEVELCYMNTNLVQENFSSLLTLLWHTLTVLVEAAASQRSS  
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PELAARETQKHKKDLHPLFDETFEFLVPAEPCRKAGACLLLTVDYDTLGADDEGEAFL  
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>sp|Q8IV45|UN5CL\_HUMAN UNC5C-like protein OS=Homo sapiens GN=UNC5CL PE=1 SV=2

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GISLLIPPGAVAVGRQERVSLILVWDLSDAPSL SQAQGLVSPVVACGPHGASFLKPCTLT  
FKHCAEQPSHARTYSSNTLLDAKVWRPLGRPGAHASRDECR IHLSHFSLYTCVLEAPVG  
REARKWLQAVFCSPVPGQSHLQLRIYFLNNTPCALQWALTNEQPHGGRLRGPCQLFDF  
NGARGDQCLKLTYISEGWENVDDSSCQLVPHLHIWHGKCPFRSFCFRKKAADENEDCSAL  
TNEIIVTMHTFQDGL ETKYMEILRFQASEEESWAAPPPVSQPPPCNRLPELFEQLRMLL  
EPNSITGNDWRRLASHLGLCGMKIRFLSCQRSPAAA ILELFEEQNGSLQELHYLMTVMER  
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>sp|Q86WB7|UN93A\_HUMAN Protein unc-93 homolog A OS=Homo sapiens GN=UNC93A PE=2 SV=1

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THAEKAGKRGKDMVNQYFGIFFLIFQSSGVWGNLISSLVFGQTPSQETLP EEQLTSCGAS  
DCLMATTTTNSTQRPSQQLVYTLLGIYTGSGVLAVLMIAAFLQPIRDVQRESEGEKKSVP  
FWSTLLSTFKLYRDKRLCLLILPLYSGLQQGFLSSEYTRSYVTCTLGIQFVGVMICFS  
ATDALCSVLYGKVSQYTGRAVLVYLGA VTHVSCMIALLLWRPRADHLAVFFVFSGLWGVA  
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>sp|Q9H1C4|UN93B\_HUMAN Protein unc-93 homolog B1 OS=Homo sapiens GN=UNC93B1 PE=1 SV=2

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LLVLGLCGAAYRPTEEIDLRVSGWGNIFQLPFKHVRDYRLRHLVPFFIYSGFEVLFACTG  
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>sp|075631|UPK3A\_HUMAN Uroplakin-3a OS=Homo sapiens GN=UPK3A PE=1 SV=3

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VYLYVLVDSAISRNASVQDSTNTPLGSTFLQTEGGRTGPYKAVAFDLIPCSDLPSLDAIG  
DVSKASQILNAYLVRVGANGTCLWDPNFQGLCNAPLSAATEYRFKYVLNMSTGLVEDQT  
LWSDPIRTNQLTPYSTIDTWPGRSSGGMIVITSILGSLPFFLLVGFAGAIASLVDMGSS  
DGETTHDSQITQEAVPKSLGASESSYTSVNRGPPLDRAEVYSSKLQD

>sp|Q86UX7|URP2\_HUMAN Fermitin family homolog 3 OS=Homo sapiens GN=FERMT3 PE=1 SV=1

MAGMKTASGDYIDSSWELRVFVGEEDPEAESVTLRVTGESHIGGVLLKIVEQINRKQDWS  
DHAIWWEQKRQWLLQTHWTLDKYILADARLFFGPQHRPVILRLPNRRALRLRASFSQPL  
FQAVAAICRLLSIRHPEELSLLRAPEKKEKKKKEKEPEEELYDL SKVVLGGVAPALFRG  
MPAHFSDSAQTEACYHMLSRPQPPDPDLLQRLPRPSSLSDKTQLHSRWLDSRCLMQQG  
IKAGDALWLRFKYYSFFDLDPKTDPVRLTQLYEQARWDLLEEIDCTEEEMMVFAALQYH  
INKLSQSGEVGEPAGTDPGLDDLDVALSNLEVKLEGSAPTDVLDLTTIPELKDHLRIFR  
IPRRPRKLTCLKYRQHWVVKETTLSEYKQDEAPGDPQQNLKGCEVVPDVNVSGQKF  
CIKLLVPSPEGMSEIYLRCQDEQQYARWMAGCRLASKGRTMADSSYTSEVQAILAFLSLQ  
RTGSGGPGNHPHGPDAEGLNPYGLVAPRFQRKFKAKQLTPRILEAHQNVAAQLSLAEAQ  
LRFIAWQSLPDFGISYVMVRFKGSRKDEILGIANNRLIRIDLAVGDVVKTWRFNSMRQW  
NVNWDIRQVAIEFDEHINFAFSCVSASCRIVHEYIGGYIFLSTRERARGEELDEDLFLQL  
TGGHEAF

>sp|Q8NBZ7|UXS1\_HUMAN UDP-glucuronic acid decarboxylase 1 OS=Homo sapiens GN=UXS1 PE=1 SV=1

MVSKALLRLVSAVNRRRMKLLLGIALLAYVASVWGNFVNMRSIQENGELKIESKIEEMVE  
PLREKIRDLEKSFTQKYPPVKFLSEKDRKRILITGGAGFVGSHLTDKLMMDGHEVTVDN  
FFTGRKRNVEHWIGHENFELINHVDVVEPLYIEVDQIYHLASPPPNMYNPIKTLKTNT  
IGTLNMLGLAKRVGARLLLASTSEVYGDPEVHPQSEDYWGHVNPIGPRACYDEGKVAET  
MCYAYMKQEGVEVRVARIFNTFGPRMHMNDGRVVSNFILQALQGEPLTVYSGSQTRAFQ  
YVSDLVNLGVALMNSNVSPVNLGNPEEHTILEFAQLIKNLVSGSGSEIQFLSEAQDDPQK  
RKPDIIKAKMLMGWEPVVPLEEGLNKAIHYFRKELEYQANNQYIPKPKPARIKKGRTRHS

>sp|075379|VAMP4\_HUMAN Vesicle-associated membrane protein 4 OS=Homo sapiens GN=VAMP4 PE=1 SV=2

MPPKFKRHLNDDDTGSVKSERNNLEDDSDDEEDFFLRGSPGPRFGPRNDKIKHVQNQV  
DEVIDVMQENITKVIERGERLDELQDKSESLSDNATAFSNRSKQLRRQMWWRGCKIKAIM

ALVAAILLLVIIILIVMKYRT

>sp|Q8TAA9|VANG1\_HUMAN Vang-like protein 1 OS=Homo sapiens GN=VANGL1 PE=1 SV=1

MDTESTYSGYSYSSSHSKSHRQGERTRERHKSPRNKDGRGSEKSVTIQPPTGEPLLGND  
STRTEEVQDDNWGETTTAITGTSEHSISQEDIARISKMEDSVGLDCKRYLGLTVASFGL  
LLVFLTPIAFILLPPILWRDELEPCGTICEGLFISMAFKLLILLIGTWALFFRKRRADMP  
RVFVFRALLLVLI FLFVVSYWLFYGVRIILDSRDRNYQGIVQYAVSLVDALLFIHYLAIVL  
LELRQLQPMFTLVVRSTDGESRFYSLGHLSIQRAALVLENYYKDFTIYNPNLLTASKF  
RAAKHMAGLKVYNVDGPSNNATGQSRAMIAAAARRRDSSHNELYEEAEHERRVKKRKAR  
LVVAVEEAFIHIQRLQAEQQKAPGEVMDPREAAQAIFPSMARALQKYLRITRQQNYHSM  
ESILQHLAFCITNGMTPKAFLERYLSAGPTLQYDKDRWLSTQWRLVSDEAVTNGLRDGIV  
FVLKCLDFSLVNVKKIPFIILSEEFIDPKSHKFVLRQLQSETSV

>sp|Q9POL0|VAPA\_HUMAN Vesicle-associated membrane protein-associated protein A OS=Homo sapiens GN=VAPA PE=1 SV=3

MASASGAMAKHEQILVLDPPTDLKFKGPFTDVVTTNLKLRNPSDRKVCFKVKTAPRRYC  
VRPNSGIIDPGSTVTVSVMQLQPFDDPNEKSKHKFMVQTI FAPPNTSDMEAVWKEAKPDE  
LMSDKLRVCFEMPENNDKLNMEPSKAVPLNASKQDGPMPKPHSVSLNDTETRKLMEECK  
RLQGEMMKLSEENRHLRDEGLRLRKVAHSDKPGSTSTASFRDNVTSPLPSLLVIAAIFI  
GFFLGKFIL

>sp|Q9UI12|VATH\_HUMAN V-type proton ATPase subunit H OS=Homo sapiens GN=ATP6V1H PE=1 SV=1

MTKMDIRGAVDAAVPTNIIAAKAAEV RANKVNWQSYLQGGMISAEDCEFIQRFEMKRSPE  
EKQEMQLTEGSQCAKTFINLMTHICKEQTVQYILTMVDDMLQENHQRVSIFFDYARCSKN  
TAWPYFLPMLNRQDPFTVHMAARIIAKLAAWGKELMEGSDLNYYFNWIKTQLSSQKL RGS  
GVAVETGTVSSSDSSQYVQCVAGCLQLMLRVNEYRFAWVEADGVNCIMGVLSNKGCFQLQ  
YQMIFSIWLLAFSPQMCEHLRRYNIIPVLSDILQESVKEKVTRIILAAFRNFLEKSTERE  
TRQEYALAMIQCKVLKQLENLEQQKYDDEDISEDIKFLLEKLGESVQDLSSFDEYSSELK  
SGRLEWSPVHKSEKFWRENAVRLNEKNYELKILTKLLEVSDDPQVLAVAHDVGEYVRH  
YPRGKRVIQLGGKQLVMNHMHHEDDQVRYNALLAVQKLMVHNWEYL GKQLQSEQPQTAA  
ARS

>sp|Q99437|VATO\_HUMAN V-type proton ATPase 21 kDa proteolipid subunit OS=Homo sapiens GN=ATP6VOB PE=2 SV=1

MTGLALLYSGVFVAFWACALAVGVCYTIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISL  
SVVGAAWGIYITGSSIIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIVISNMAEPFSA  
TDPKAIGHRNYHAGYSMFGAGLTVGLSNLFCGVCVGIVGSGAALADAQNPSLFVKILIVE  
IFGSAIGLFGVIVAILQTSRVKMGD

>sp|P49765|VEGFB\_HUMAN Vascular endothelial growth factor B OS=Homo sapiens GN=VEGFB PE=1 SV=2

MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSVIDVYTRATCQPREVVVPLTVEL  
MGTVAKQLVPSCVTVQRCGCCPDGLECVPTGQHQVRMQLMIRYPSSQLGEMSLEEHS  
QCECRPKKKDSAVKPDRAATPHHRPQPRSVPGWDSAPGAPSPADITHPTAPGPSAHAAP  
STTSALTPGPAAAAADAAASSVAKGGA

>sp|P49767|VEGFC\_HUMAN Vascular endothelial growth factor C OS=Homo sapiens GN=VEGFC PE=1 SV=1

MHLLGFFSVACSLLAALLPGPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQL  
RSVSSVDELMTVLYPEYW MYKCQLRKGGWQHNRQANLNSRTEETIKFAAAHYNTEILK

SIDNEWRKTCMPREVCIDVGKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSY  
LSKTLFEITVPLSQGPKPVTISFANHTSCRCMSKLDVYRQVHSIIRSLPATLPQCQAAN  
KTCPTNYMWNHICCLAQEDFMFSSDAGDDSTDGFDICGPNKELDEETCQCVCRAGLR  
PASCOPHKELDNRNSCQCCKNKLFPSCGANREFDENTCQCVCKRTCPRNQPLNPGKAC  
ECTESPQKCLLKGGKFHHQTCSCYRRPCTNRQKACEPGFSYSEEVCRVCPSYWKRPQMS  
>sp|060504|VINEX\_HUMAN Vinexin OS=Homo sapiens GN=SORBS3 PE=1 SV=2  
MQGPPRSLRAGLSLDDFIPGHLQSHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAVRTVCN  
GGYTPRRDASQHPDPAWYQTWPGPSKPSASTKIPASQHTQNWSATWTKDSKRRDKRWVK  
YEGIGPVDESOMPIAPRSSVDRPRDWYRRMFQQIHRKMPDLQLDWTFEPPRPDRHLGAQ  
QRPAHRPGPATSSSGRSWDHSEELPRSTFNYPGAFSTVLQPSNQVLRREKVDNVWTEE  
SWNQFLQLELTGQRPKKPLVDDPGEKPSQPIEVLLERELAELSAELDKDLRAIETRLPSP  
KSSPAPRRAPEQRPPAGPASAWSSSYPHAPYLGSARSLSPHKMADGGSPFLGRRDFVYPS  
STRDPSASNGGGSPARREEKKRKAARLKFDFAQSPKELTLQKGDIVYIHKEVDKNWLEG  
EHHGRLGIFPANYVEVLPADIPKPIKPPTYQVLEYGEAVAQYTFKGDLEVELSFRKGEH  
ICLIRKVNENWYEGRITGTGRQGIFPASYVQVSREPRRLCDDGPQLPTSPRLTAAARSA  
RHPSSPSALRSPADPIDLGGQTSRRTGFSFPTQEPRPQTQNLGTPGALSHSRGSPHPL  
DLGTSSPNTSQIHWTPYRAMYQYRPQNEDELELREGDRVDMQQCDDGWVFGVSRRTQKF  
GTFPGNYVAPV

>sp|043314|VIP2\_HUMAN Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate  
kinase 2 OS=Homo sapiens GN=PPIP5K2 PE=1 SV=3  
MSEAPRFFVGPEDTEINPGNYRHFFHHADEDEEEDDSPPERQIVVGICSMAKKSKSKPM  
KEILERISLFKYITVVVFEEVILNEPVENWPLCDCLISFHSKGFPLDKAVAYAKLRNPF  
VINDLNMQYLIQDRREVYSILQAEIGILLPRYAILNRDPNNPKECNLIEGEDHVEVNGEVF  
QKPFVEKPVSAEDHNVIYYPTSAGGGSQRLFRKIGSRSSVYSPESNVRKTGSYIYEEFM  
PTDGTDVKYVTGPDYAHAEARKSPALDGKVERDSEGKEVRYPVILNAREKLIWVKVCLA  
FKQTVCGFDLLRANGQSYVCDVNGFSFVKNSMKYYDDCAKILGNIVMRELAPQFHIPWSI  
PLEAEDIPIVPTSGTMELRCVIAVIRHGDRTPKQKMEVRHQKFFDLFEKCDGYKSG  
KLKLKPKQLQEVLDIARQLLMELGQNNDSIEENKPKLEQLKTVLEMYGHFSGINRKVQ  
LTYLPHGCPKTSSEEEDSRREPSLLLVLKWGGELTPAGRVQAEELGRAFCMYPGGQGD  
YAGFPGCGLLRHLSTYRHLKIYASDEGRVQMTAAAFKGLLALLEGELTPILVQMVKSAN  
MNGLLSDSDSLSSCQQRVKARLHEILQKDRDFTAEDYEKLTPSGSISLIKSMHLIKNPV  
KTCDKVYSLIQSLTSQIRHRMEDPKSSDIQLYHSETLEMLRRWSKLEKDFKTKNGRYDI  
SKIPDIYDCIKYDVQHNGSLKLENTMELYRLSKALADIVIPQEYGITKAEKLEIAKGYCT  
PLVRKIRSDLQRTQDDDTVNKLHPVYSRGVLSPERHVRTRLYFTSESHVHSLLSILRYGA  
LCNESKDEQWKRAMDYLVVNELNYMTQIVIMLYEDPNKDLSEERFHVELHFSPGAKGC  
EEDKNLPSGYYRPAASRENEGRPFKIDNDEPHTSKRDEVDRVILFKPMVSEPIHIHR  
KSPLPRSRKTATNDEESPLSVSSPEGTGTWLHYTSGVGTGRRRRRSGEQITSSPVSPKSL  
AFTSSIFGSWQQVSENANYLRTPLVEQKQNPVGSCHAGLFSTSVLGGSSAPNLQD  
YARTHRKKLTSSGCIDDATRGSAVKRFSISFARHPTNGFELYSMVPSICPLETLHNALSL  
KQVDEFLASIASPSSDVPRKTAEISSALRSSPIMRKKVSLNTYTPAKILPTPATLKST  
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>sp|P62760|VISL1\_HUMAN Visinin-like protein 1 OS=Homo sapiens GN=VSNL1 PE=1 SV=2  
MGKQNSKLAPEVMEDLVKSTEFNEHELKQWYKGFLLKDCPSGRLNLEEFQQLYVKFFPYGD  
ASKFAQHAFRTFDKNGDGTIDFREFICALSITSRGSFEQKLNWAFNMYDLGDGKITRVE

MLEII EAIYKMVGTVIMMKMNEDGLTPEQRVDKIFSKMDKNKDDQITLDEFKEAAKSDPS  
IVLLLQCDIQK

>sp|Q6UXI7|VITRN\_HUMAN Vitrin OS=Homo sapiens GN=VIT PE=2 SV=1  
MRTVVLTMKASVIEMFLVLLVTGVHSNKETAKKIKRPKFTVPQINCDVKAGKIIDPEFIV  
KCPAGCQDPKYHVYGTDVYASYSSVCGAAVHSGVLDNSGGKILVRKVAGQSGYKGSYSNG  
VQSLSLPRWRESFIVLESKPKKGVTPYSALTYSSSKSPAAQAGETTKAYQRPPIPGTTAQ  
PVTLMQLLAVTVAVATPTTLPRPSPSAASTTSIPRPQSVGHRSEQMDLWSTATYTSSQNR  
PRADPGIQRQDPGAAAFQKPVGADVSLGLVPKEELSTQSLEPVSLGDPNCKIDLSFLIDG  
STSIGKRRFRIQKQLLADVAQALDIGPAGPLMGVVQYGDNPATHFNLKTHTNRDLTAKI  
EKITQRGGLSNVGRAISFVTKNFFSKANGNRSGAPNVVVVMVDGWPTDKVEEASRLARES  
GINIFFITIEGAAENEKQYVVEPNFANKAVCRTNGFYSLHVQSWFGLHKTQLPLVKRVCD  
TDRLACSKTCLNSADIGFVIDGSSSVGTGNFRTVLQFVTNLTKEFEISDTRIGAVQYT  
YEQRLEFGFDKYSSKPDILNAIKRVGYWGGTSTGAAINFALEQLFKKSKPNKRKLMILI  
TDGRSYDDVRIPMAAHLKGVITYAIGVAWAAQEELEVIATHPARDHSFFVDEFNLHQY  
VPRIIQNICTEFNSQPRN

>sp|Q6BDS2|URFB1\_HUMAN UHRF1-binding protein 1 OS=Homo sapiens GN=UHRF1BP1 PE=1 SV=1  
MAGI IKKQILKHLRFTKNLSPDKINLSTLKGEGLTNLELDEEVLQNVLELPTWLAI TR  
VYCNRASIRIQWTKLTHPICLCLDKVEVEMKTCEDPRPPNGQSPIALASGQSEYGF AEK  
VVEGMFIIVNSITIKIHSKAFHASFELWQLQGYSVNPWQQSDLRLTRITDPCRGEVLT F  
KEITWQTLRIEADATDNGDQDPVTTPLRLITNQGRIQIALKRRTKDCNVISSKLMFLDD  
LLWVLTDSQLKAMMKYAESLSEAMEKSAHQKSLAPEPVQITPPAPSAQQSWAQAFGGSQ  
GNSNSSSSRLSQYFEKFDVKESYHLLISRLDLHICDDSQSREPGVSANRLMGGAMQLTF  
RKMAFDYYPFWAGDSCKHWVRHCEAMETRGQWAQKLVMFEQSKMEKWHEETGLKPPWHL  
GVDSLFRRKADSLSSPRKNPLERSPSQGRQPAFQPPAWNRLRSSCMVVRVDDLDIHQVST  
AGQPSKKPSTLLSCSRKLHNLPTQVSAIHIEFTEYYFPDNQELPVPCPNLYIQNLGTF T  
MDPVSLWGNLFCLDLYRSLEQFKAIYKLEDSSQKDEHLDIRLDAFWLKVSFPLEKRERA  
ELHRPQALVFSASGMIATNTRHAPHCSCLQSLFRGFAAAEFFHSNYDHF PKVPGGFSL  
LHMLFLHHAFQMDSLCPQPNLPPQRPKASWDLWSVHFTQISLDFEGTENFKGHTLNFVA  
PFPLSIWACLPLRWQQAQARKLLASEGRLKPSASFGSPVQSEALAPDSMHSRKS TEHD  
LKSLSGLTEVMEILKEGSSGMDNKGPLETELDVADVHMLVHSPAHRVRRLDHYQYLALLR  
LKEVLQRLQEQLTKDTESMTGSPLQNQTACIGVLFPSAEVALLMHPAPGAVDADSAGSDS  
TSLVDELSPESEDRELKSDASSDQGPASPEKVL EESSIENQDVSQERPHSNGELQDSGPL  
AQQLAGKGHEAVESLQAKKLSRTQASSSPAALKPPAGRETAVNGQGELIPLKNIEGELSS  
AIHMTKDATKEALHATMDLTKEAVSLTKDAFSLGRDRMTSTMHKMLSLPPAKEPMAKTDE  
GVAAPVSGGAARLRFFSMKRTVSQQSFDGVS LDSSGPEDRISVSDGSDSFVMLLESESG  
PESVPPGSLSNVSDNAGVQGSPLVNNYGQGSPAANSSVSPSGEDLIFHPVSVLVLVKNEV  
SFGIEVRGEDLTVALQAEELTLQQLGTVGLWQFLHGQCPGTCFQESSTLKTGHIRPAVGL  
RFEVGPAAVHSPLASQNGFLHLLHGCDELLTSVLSGLGPFL EDEEIPVVVPMQIELL  
NSSITLKDDIPPIYPTSPGPIPI TLAMEHVVLKRSDDGVFHIGAAAQDKPSAEVLKSEKR  
QPPKEQVFLVPTGEVFEQQVKELPILQKELIETKQALANANQDKEKLLQEIRKYNPFFEL

>sp|Q9BQ65|USB1\_HUMAN U6 snRNA phosphodiesterase OS=Homo sapiens GN=USB1 PE=1 SV=1  
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EDDSTKHGGRVRTFPHERGNWATHVYVPYEAKEEFLDLLDVLLPHAQTYVPRLVRMKVFH  
LSLSQSVVLRHHWILPFVQALKARMTSFHRFFFTANQVKIYTNQEKTRTFIGLEVTSGHA



QFLDLVSEVDRVMEEFNLTTFYQDPSFHLSLAWCVGDARLQLEGQCLQELQAIVDGFEDA  
EVLLRVHTEQVRCKSGNKFFSMPLK

>sp|Q68DE3|USF3\_HUMAN Basic helix-loop-helix domain-containing protein USF3 OS=Homo  
sapiens GN=USF3 PE=1 SV=3

MPEMTENETPTKKQHRKKNRETHNAVERHRKKKINAGINRIGELIPCSPALKQSKNMILD  
QAFKYITELKRQNDELLLNNGGNEQAEEIKKLRLKLEEQKENGRIYIELLKANDICLYDD  
PTIHWKGNLKNKSVSVIPSDQVQKKIIVYSNGNQPGGNSQGTAVQGITFNVSHNLQKQT  
ANVVPVQRTCNLVTPVISGVYPSENKPPWHQTTVPALATNQPVPLCLPAAISAQSILELP  
TSESESNVLGATSGSLIAVSISEPHQHSLHTCLNDQNSSENKNGQENPKVLKMTPCV  
TNIPHSSSATATKVHHGKNSCLSIQDFRGDFQNTFVSVTTTVCSQPPRTAGDSSPMSIS  
KSADLTSTATVVAASAPGVGKATIPISTLSGNPLDNGWTLSCSLPSSSVSTSDLKNINSL  
TRISSAGNTQTTWTLQLAGNTIQPLSQTPSSAVTPVLNESGTSPTTSNHSRYVATDINL  
NNSFPADGQPVQVVTLPSCPSLPMQPLIAQPQVKSQPPKNILPLNSAMQVIQMAQPVG  
SAVNSAPTNNVILQPPSTTPCPTVMRAEVSNTVGQQIVIIQAANQNPLPLLPAPPPG  
SVRLPINGANTVIGSNNSVQNVPTPQTFGGKHLVHILPRSSLSASNSTQTFSVTMSNQQ  
PQTISLNGQLFALQPMSSSGTTNQTPMQIIQPTTSEDPTNVALNTFGALASLNQSSISQ  
MAGQSCVQLSISQPANSQTAANSQTTTANCVSLTTTAAPPVTTDSSATLASTYNLVSTSS  
MNTVACLPMKSKRLNKKPGGRKHLAANKSACPLNSVRDVSCLDCPNTGSAEPPCNDGL  
LESFPAVLPSVSVQANSVSVSASHSLGVLSSSLIPESVSKSKSAEKSSPPSQESVTSE  
HFAMAAASKDSTPNLQQETSQDKPPSSLALSDAAKPCASANVLIPSPDPHILVSQVPG  
LSSTTSTSTDCVSEVEIIAEPGRVEQDSSDTMQTTGLLKGGGLTLLSDLAKKKNPQKS  
SLSDQMDHPDFSENPKIVDSSVNLHPKQELLLMNDDRDPQHHSCLPDQEVINGSLIN  
GRQADSPMSTSSGSSRSFSVASMLPETTREDVTSNATTNTCDSCTFVEQTDIVALAARAI  
FDQENLEKGRVGLQADIREVASKPSEASLLEGDPPFKSQIPKESGTGQAEATPNEFNSQG  
SIEATMERPLEKPCSLGIKTSNASLQDSTSQPPSITSLSVNLIHQSSISHPLASCAGL  
SPTSEQTTVPATVNLTVSSSSYGSPPGPSLMTEYSQEQLNTMTSTIPNSQIQEPLLKPS  
HESRKDSAKRAVQDDLLSSAKRQKHCQPAPLRLESMSLSMRTPDTISDQTQMMVSQIPP  
NSSNSVVPVSNPAHGDLTRLFPSSNNFVTPALRQTEVQCGSQPSVAEQQTQASQHLQA  
LQQHVPAQGVSHLHNSHLYIKQQQQQQQQQQQQQQQQAGQLRERHHLYQMHHVPHAES  
SVHSQPHNVHQRTLQQEVQMQRNLVQGTQTSQLSLQPKHHGTDQSRSKTGQPHPHHQ  
QMQQQMHHQFSSQTEKSCENPSTSRNHHNHPQNLNQDIMHQQQDVGSRQQGSGVSSEH  
VSGHNPMQRLLTSRGLQQMVQSQPSIVTRSSDMCTPHRPERNRVSSYSAEALIGKTSSN  
SEQRMGISIQGSRVSDQLEMRSYLDVPRNKSLAIHNMQGRVDHTVASDIRLSDCQTFKPS  
GASQQPQSNFEVQSSRNNEIGNPVSSLRSMQSAFRISQNTGPPPIDRQKRLSYPPVQSI  
PTGNGIPSRDSENTCHQSFMSLLAPHLSDQVIGSQRSLSEHQRNTQCGPSSAIEYNCPP  
THENVHIRRESESNRESCDMSLGAINTRNSTLNIPFSSSSSGDIQGRNTSPNVSVQKS  
NPMRITESHATKGHMNPVTTNMHGVARPALPHPSVSHGNGDQGPAVRQANSSVPQRSRH  
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MPDSPQVPNDNSGPDQHTLSQNFQFSFIPEGGMNPPINANASFIPQVTQPSATRTPALIP  
VDPQNTLPSFYPPYSPAHTLSNDISIPYFPNQMFSPNSTEKNVSGSLNNRFGSILSPPR  
PVGFAQPSFPLLPDMPPMHMTNSHLSNFMNTSLFPEIATVLPDGSAMSPLLTIANSSASD  
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>sp|Q9BVJ6|UT14A\_HUMAN U3 small nucleolar RNA-associated protein 14 homolog A OS=Homo  
sapiens GN=UTP14A PE=1 SV=1

MTANRLAESLLALSQQEELADLPKDYLLSESEDEGDNDGERKHQKLEAISSLDGKNRRK  
LAERSEASLKVSEFNVSSSEGSGEKLVADLLEPVKTSSSLATVKKQLSRVKSCKTVELPL  
NKEEIERIHREVAFNKTAQVLSKWDVPVLKNRQAEQLVFPLEKEEPAIAPIEHVLSGWKA  
RTPLEQEIFNLLHKNKQPVTDPLLTPVEKASLRAMSLEEAKMRAELQRARALQSYEAK  
ARREKKIKSKKYHKVVKKGKAKKALKEFEQLRKVNPAALEELEKIEKARMMERMSLKHQ  
NSGKWAKSKAIMAKYDLEARQAMQEQLSKNKELTQKLQVASESEEEEGGTEDVEELLVPD  
VVNEVQMNADGPNPWMLRSCTSDTKEAATQEDPEQLPELEAHGVSESEGEERPVAEEEEIL  
LREFEERRSLRKRSELSQDAEPAGSQETKDSGSQEVLSSELRVLSQKLKENHQSRLKQKASS  
EGTIPVQVQREEPAPEEEEPLLLQRPERVQTLLEELEELGKEECFQNKELPRPVLEGQQSER  
TPNNRPDAPKEKKKKEQMIDLQNLTTQSPSVKSLAVPTIEELEDEEERNHRQMIKEAFA  
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DKNLPNVIINEKRNIAAAHQVRVLPYPFTHHWQFERTIQTPIGSTWNTQRAFQKLTPK  
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>sp|Q13336|UT1\_HUMAN Urea transporter 1 OS=Homo sapiens GN=SLC14A1 PE=1 SV=2

MEDSPTMVRVDSPTMVRGENQVSPCQGRRCFPKALGYVTGDMKELANQLKDKPVVLQFID  
WILRGISQVVFVNNPVSGILILVGLLVQNPWWALTGWLGTVVSTLMALLLSQDRSLIASG  
LYGYNATLVGVLMAVFSKGDYFWWLLPVCAMSMTCPIFSSALNSMLSKWDLPVFTLPF  
NMALSMYLSATGHYNPFPAKLVIPITTAPNISWSDLSALELLKSIPVGVGQIYGCDNPW  
TGGIFLGAILLSSPLMCLHAAIGSLLGIAAGLSLSAPFEDIYFGLWGFNSSLACIAMGGM  
FMALTWQTHLLALGCALFTAYLVGGMANFMAEVGLPACTWPFCLATLLFLIMTTKNSNIY  
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>sp|P47901|V1BR\_HUMAN Vasopressin V1b receptor OS=Homo sapiens GN=AVPR1B PE=2 SV=1

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QLGRKRSRMHLFVLHLALTDLAVALFQVLPQLLWDITYRFQGPDLLCRAVKYLQVLSMFA  
STYMLLAMTLDRYLAVCHPLRSLQPGQSTYLLIAAPWLLAAIFSLPQVFIFSLREVIQG  
SGVLDWCWADFGFPWGPAYLTWTTLAIFVLPVTMLTACYSLICHEICKNLKVKTQAWRVG  
GGGWRTWDRPSPSTLAATTRGLPSRVSSINTISRAKIRTVKMTFVIVLAYIACWAPFFSV  
QMWSVWDKNAPDEDESTNVAFTISMLLGNLNSCCNPWIYMGFNHLLPRPLRHLACCGGPQ  
PRMRRRLSDGSLSSRHITLLTRSSCPATLSLSLSLTLSGRPRPEESPRDLELADGEGTAE  
TIIF

>sp|P61421|VAOD1\_HUMAN V-type proton ATPase subunit d 1 OS=Homo sapiens GN=ATP6VOD1 PE=1  
SV=1

MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLAN  
EASPLTVSVIDDRLKEKMOVFEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQR  
SIAELVPKCHPLGSFEQMEAVNIAQTPAELYNAILVDTPLAFFQDCISEQDLDEMNIIEI  
IRNTLYKAYLESFYKFCTLLGGTTADAMCPILEFEADRRAFIITINSFGTELSKEDRAKL  
FPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLEDRLFHEVK  
LNKLAFNLNQHFHGVFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPIF

>sp|Q8NEY4|VATC2\_HUMAN V-type proton ATPase subunit C 2 OS=Homo sapiens GN=ATP6V1C2 PE=1  
SV=2

MSEFWLISAPGDKENLQALERMNTVTSKSNLSYNTKFAIPDFKVGTLDSLVGLSDELGKL  
DTFAESLIRMAQSVVEVMEDSKGKVQEHLLANGVDLTSFVTHFEWDMAKYPVKQPLVSV  
VDTIAKQLAQIEMDLKSRTAAYNTLKTNLLENLEKKSMMGNLFTRTLSDIVSKEDFVLDSEY  
LVTLIVIVPKPNYSQWQKTYESLSDMVVPRSTKLITEDKEGGLFTVTLFRKVIEDFKTKA

KENKFTVREFYYDEKEIEREREEMARLLSDKKQQYTSCVALKKGSSTFPDHKVKVTPLG  
NPDRPAAGQTDREERESEGEGERLLRWLKVNFSEAFIAWIIKALRVFVESVLRYPVN  
FQAVLLQPHKKSSTKRLREVLNSVFRHLDEVAATSILDASVEIPGLQLNNQDYFPYVYFH  
IDLSLLD

>sp|O15195|VILL\_HUMAN Villin-like protein OS=Homo sapiens GN=VILL PE=2 SV=3

MDISKGLPGMQGGLHIWISNRKMVPVPEGAYGNFEEHCYVILHVPQSPKATQGASSDL  
HYWVGKQAGAEAGAAEAFQQLQDELGGQTVLHREAQGHESDCFSYFRPGIIRKGG  
ASDLKHVETNLFNIQRLHIIKGRKHSATEVELSWNSFNKGDIFLLDLGKMMIQWNGPKT  
SISEKARGLALTYSLRDRERGGGRAQIGVVDDEAKAPDLMQIMEAVLGRRVGSRAATPS  
KDINQLQKANVRLYHVEKGDVLVLELATPPLTQDLLQEEDFYILDQGGFKIYVWQGRM  
SSLQERKAASFRAVGFIAQAGYPTYNVEVVNDGAESAFAFKLFRTWSEKRRRNQKLGGR  
DKSIHVKLDVGLHTQPKLAAQLRMVDDGSGKVEVWCIQDLHRQVPDPKRHGQLCAGNCY  
LVLYTYQRLGRVQYILYLWQGHQATADEIEALNSNAEELDMYGGVLVQEHVTMGSEPPH  
FLAIFQGLVIFQERAGHHGKGQSASTTRLFQVQGTDSHNTRTMEVPARASSLNSSDIFL  
LVTASVCYLWFGKGCNGDQREMARVVTVISRKNEETVLEGQEPHFWEALGGRAPYPSN  
KRLPEEVPSPFQPRLEFCSHMGCLVLAEVGFFSQEDLDKYDIMLLDTWQEIFLWLGEAAS  
EWKEAVAWGQEYLKTHPAGRSPATPIVLVKQGHEPPTFIGWFFTWDPYKWTSHPSHKEVV  
DGSPAAASTISEITAENVNRLSRWPGNGRAGAVLQALKGSQDSSENDLVRSPKSAGSR  
TSSVSSTSATINGGLRREQLMHQAVEDLPEGVDPARREFYLSDSDFQDIFGKSKEEFYS  
MATWRQRQEKQLGFF

>sp|Q6PFW1|VIP1\_HUMAN Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate  
kinase 1 OS=Homo sapiens GN=PIP5K1 PE=1 SV=1

MWSLTASEGESTTAHFFLGAGDEGLGTRGIGMRPEESDSELLEDEEDEVPEPQIIIVGIC  
AMTKKSKSKPMTQILERLCRFDYLTVVILGEDVILNEPVENWPSCHCLISFHSKGFPLDK  
AVAYSKLRNPFLINDLAMQYYIQDRREVYRILQEEIDLPYAVLNDRPARPEECNLIEG  
EDQVEVNGAVFPKPFVEKPVSAEDHNVYIYPSSAGGGSQRLFRKIGSRSSVYSPESSVR  
KTGSYIYEEFMPTDGTDVKVYTVGPDYAHAEARKSPALDGKVERDSEGKEIRYPVMLTAM  
EKLVARVKVCAFKQTVCGFDLLRANGHSFVCDVNGFSFVKNMKEYDDCAKILGNTIMRE  
LAPQFQIPWSIPTAEADIPVPTSGTMELRCVIAIIRHGDRTPKQKMKMEVKHPRFFA  
LFEKHGGYKTGKLKLRPEQLQEVLDITRLLAELEKEPGGEIEEKTGKLEQLKSVLEMY  
GHFSGINRKVQLTYYPHGKASNEGQDPQRETLAPSLLLVLKWGGELTPAGRVQAEELGR  
AFRCMPYGGQGDYAGFPGCGLRLHSTFRHDLKIYASDEGRVQMTAAAFKGLLALEGEL  
TPILVQMVKSANMNGLLDSDGDSLSSCQHRVKARLHHILQQDAPFGPEDYDQLAPTRSTS  
LLNSMTIIQNPVKVCDQVFALIENTHQIRERMQDPRVDLQLYHSETLELMLQRWSKLE  
RDRFRQSGRYDISKIPDIYDCVKYDVQHNGSLGLQGTAEALLRLSKALADVVIPQEYGISR  
EEKLEIAVGFCPLLRKILLDLQRTHEDEVNKLHPLCYLRYSRGVLSGRHVRTRLYFT  
SESHVHSLLSVFRYGLLDETQDAQWRALDYLSAISLNYMTQIVIMLYEDNTQDPLSE  
ERFHVHLSFPGVKGVVEEGSAPAGCGFRPASSENEEMKTNQGSMLNCPGKASDEPDRA  
LQTSPQPPEGPLRRSPLIRNRKAGSMEVLSETSSSRPGGYRLFSSSRPPTMKSGLG  
SQCTGLFSTTVLGGSSAPNLQDYARSHGKKLPPASLKHRELLFVPAVKRFSVSFAKHP  
TNGFEGCSMVPTIYPLETLHNALSRLQVSEFLSRVCQRHTDAQAASAAFDMSHSSQAS  
DNPFSPPRTLHSPPLQLQQRSEKPPWYSSGPSSTVSSAGPSSPTTVDGNSQFGFSDQPSL  
NSHVAEEHQGLGLLQETPGSGAQELSIEGEQELFEPNQSPQVPPMETSQPYEEVSQPCQE  
VPDISQPCQDISEALSQPCQKVPDISQQCQENHDNGNHTCQEVPHISQPCQKSSQLCQKV

SEEVQCQLCLENSEEVSQPCQGVSEVVGKLVHKFHVGVGSLVQETLVEVGSPAEEIPEEVI  
QPYQEFSVEVGRLAQETSAINLLSQGIPEIDKPSQEFPEEIDLQAQEVPEEIN

>sp|P01282|VIP\_HUMAN VIP peptides OS=Homo sapiens GN=VIP PE=1 SV=1

MDTRNKAQLLVLLTLLSVLFSQTSAPLYRAPSLRLGDRIPFEGANEPDQVSLKEDIDM  
LQNALAENDTPYYDVSARNARHADGVFTSDFSKLLGQLSAKKYLESLMGKRVSSNISEDPV  
PVKRHSDAVFTDNYTRLRKQMAVKKYLNSILNGKRSSEGESPDFPEELEK

>sp|P54219|VMAT1\_HUMAN Chromaffin granule amine transporter OS=Homo sapiens GN=SLC18A1  
PE=2 SV=1

MLRTILDAPQRLLEGRASRQLVLVVVFVALLLDNMLFTVVVPIVPTFLYDMEFKEVNSS  
LHLGHAGSSPHALASPAFSTIFSFFNNNTVAVEESVPSGIAWMNDTASTIPPPATEAISA  
HKNNCLQGTGFLEEEITRVGVLFASKAVMQLLVNPFVGPLTNRIGYHIPMFAGFVIMFLS  
TVMFAFSGTYTLLFVARTLQGIGSSFSSVAGLMLASVYTDDHERGRAMGTALGGLALGL  
LVGAPFGSVMYEFVGKSAPFLILAFLALLDGAQLCILQPSKVSPESAKGTPLFMLLKDP  
YILVAAGSICFANMGVAILEPTLPIMMMQTMCSPKWQLGLAFLPASVSYLIGNLFGVLA  
NKMGRWLCSLIGMLVVGTSLLCVPLAHNIFGLIGNAGLGLAIGMVDSSMMPIMGHLVDL  
RHTSVYGSVYAIADVAFCMGFAIGPSTGGAIVKAIGFPWLMVITGVINIVYAPLCYYLRS  
PPAKEEKLAILSQDCPMETRMATQKPTKEFPLGEDSDEEPDHEE

>sp|095498|VNN2\_HUMAN Vascular non-inflammatory molecule 2 OS=Homo sapiens GN=VNN2 PE=1  
SV=3

MVTSSFPISVAVFALITLQVGTQDSFIAAVYEHAVILPNKTETPVSQEDALNLMNENIDI  
LETAIKQAAEQGARIIVTPEDALYGWKFTRETVFPYLEDIPDPQVNWIPCQDPHRFGHTP  
VQARLSCLAKDNSIYVLANLGDKKPCNSRDSTCPPNGYFQYNTNVVYNTGKLVARYHKY  
HLYSEPQFNVPEKPELVTFNTAFGRFGIFTCFDIFFYDPGVTLVKDFHVDITLFTAWMN  
VLPLLTAEFHSAWAMGMGVNLLVANTHHVSLNMTGSGIYAPNGPKVYHYDMKTELGKLL  
LSEVDSHPLSSLAYTAVNWNAYATTIKPPVQKNTFRGFISRDFNFTELFENAGNLTV  
CQKELCCHLSYRMLQKEENEVYVLGAFTGLHGRRRREYWQVCTLLKCKTTNLTTCGRPVE  
TASTRFEMFSLSGTFGTEYVFPEVLLTEIHLSPGKFEVLKDGRLVNKNGSSGPILTVSLF  
GRWYTKDSLYSSCGTSNSAITYLLIFILLMIIALQNIVML

>sp|Q8TED0|UTP15\_HUMAN U3 small nucleolar RNA-associated protein 15 homolog OS=Homo  
sapiens GN=UTP15 PE=1 SV=3

MAGYKPVAIQTYPILGKITQDTLYWNNYKTPVQIKEFGAVSKVDFSPQPPYNYAVTASS  
RIHIYGRYSQEPKFTSRFKDTAYCATFRQDGRLLVAGSEDGGVQLFDISGRAPLRQFEG  
HTKAVHTVDFTADKYHVVGADDYTVKLWDIPNSKEILTFKEHSDYVRCGCASKLNPDLF  
ITGSYDHTVKMFDA RTSSESVLSVEHGQPVESVLLFPSGGLLVSAGGRYVKVWDMKGGQL  
LVSLKNHHKTVTCLCLSSSGRLLSGSLDRKVKVYSTTSYKVHVSFDYAASILSLALAHE  
DETIVGTMNGILSVKHKSEAKKESLPRRRRPAYRTFIKGNMKQRDDILINRPAKKH  
LELYDRDLKHFRISKALDRVLDPTCTIKTPEITVSI IKELNRRGVLANALAGRDEKEISH  
VLNFLIRNLSQPRFAPVLINAAEIIIDIYLPVIGQSPVVDKKFLLLQGLVEKEIDYQREL  
LETLGMMDFATMRRKEGTSVLEHTSDGFENKKIES

>sp|P46939|UTRO\_HUMAN Utrophin OS=Homo sapiens GN=UTRN PE=1 SV=2

MAKYGEHEASPDNGQNEFSDI IKSRSDEHNDVQKKTFTKWINARFSKSGKPPINDMFTDL  
KDGRKLLDLLEGLTGTSLPKERGSTRVHALNNVRVLQVLHQNNVELVNIGGTDIVDGNH  
KLTLGLLWSIILHWQVKDVMKDVMSDLQQTNSEKILLSWVRQTTRPYSQVNVNFTTSWT  
DGLAFNAVLHRHKPDLFSWDKVVKMSPIERLEHAFSKAQTYLGIEKLLDPEDVAVQLPDK

KSII MYLTS LFEVLPQQVTIDAI REVETLPRKYKKECEEEA INIQSTAPEEEHESPR AET  
PSTVTEVDM DLDSYQIALEEVL TWLLSAEDTFQE QDDISDDVEEVKDQFATHEAFMMELT  
AHQSSVGSVLQAGNQLITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRLHDVLM  
ELQKKQLQQLSAWLTLTEERI QKMETCPLDDDVKSLQKLLEHKSLSQSDLEAEQKVNSL  
THMVVIDENSGESATAILEDQLQKLGERWTAVCRWTEERWNRLQEINILWQELLEEQCL  
LKAWLTEKEEALNKVQTSNFKDQKELSVSVRRLA I LKEDMEMKRQTLDQLSEIGQDVGQL  
LDNSKASKKINS DSEELTQRWDSLVRLEDSSNQVTQAVAKLGMSQIPQKD LLETVRVRE  
QAITKKSQKELPPPPPPKQRQIHVDIEAKKKFDAISAE LLNWILKWKTAIQTTEIKEYMK  
MQDTSEMKKK LKALEKEQRERIPRADELNQTGQILVEQMGKEGLPTEEIKNVLEKVSSEW  
KNVSQHLEDLERKIQ LQEDINAYFKQLDELEKVIKTKEEWVKHTSISESSRQSLPSLKDS  
CQRELTNLLGLHPKIE MARASCALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQQHL  
ENELKGQPGHAYLET LTKLKDVLNDSENKAQVSLNVLNDLAKVEKALQEKKTLDEILENQ  
KPALHKLAEETKALEKNVHPDVEKLYKQEFDDVQGKWNKLVLSKDLHLLEEIALTLRA  
FEADSTVIEK WMDGVKDFLMKQAAQGGDAGLQRQLDQCSAFVNEIETIESS LKNMKEIE  
TNLRSGPVAGIKTWVQTRLGDYQTQLEKLSKEIATQKSRLSESQEKAANLKKDLAEMQEW  
MTQAE EYLERDFEYKSPEELES AVEEMKRAKEDVLQKEVRVKILKDN IKLLAAKVPSGG  
QELTSELNVVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLTNLEERMKSTE  
VLPEKTD AVNEALESLESVLRHPADNRTQIRELGQTLIDGGILDDI ISEKLEAFNSRYED  
LSHLAESKQISLEKQLQVLRETDQMLQVLQESLGELDKQLTTYLTDRIDAFQVPQEAQKI  
QAEISAHELTLEELRRNMRSQPLTSPE SRTARGGSQMDVLQRKLREVSTKFQLFQKPANF  
EQRMLDCKRVLDGVKAELHVL DVKDVPDVIQTHLDKCMKLYKTLSEVKLEVETVIKTGR  
HIVQKQTDNPKGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWL  
SATETELVQKSTSEGLLDTEISWAKNV LKDLEKRAKADLNTITESSAALQNLIEGSEP  
ILEERLCV LNAGWSRVRTWTEDWCNTLMNHQNLQEIFDGNVAHISTWLYQAEALLDEIEK  
KPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSRELVEPKLAELNRNFEKV  
SQHIKSAKLLIAQEPLYQCLVTTTETFETGVPFSDLEKLENDIENMLKFVEKHLESSDEDE  
KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQLLLLHTRYNKIKAIP IQQRKMGQLA  
SGIRSSLLPTDYLVEINKILLC MDDVELSLNVP ELNTAIYEDFSFQEDSLKNIKDQLDKL  
GEQIAVIEHKQPDVILEASGPEAIQIRDTLTQLNAKWDRINRMYS DRKGCDFRAMEEWRQ  
FHCDLNDLTQWITEAEELLVDTCAPGGSLDLEKARIHQQELEVGISSHQPSFAALNRTGD  
GIVQKLSQADGSFLKEKLAGLNQRWDAI VAEVKDRQPR LKGESKQVMKYRHQLDEIICWL  
TKAEHAMQKRSTTELGENLQELRDLTQEME VHAEK LKWLNRTEMLSDKSLSLPERDKI  
SESLRTVNMTWNKICREVPTTLKECIQEPSSVSQTRIAAHPNVQKVVLVSSASDIPVQSH  
RTSEISIPADLKTITELADWLVIDQMLKSNIVTVGDVEEINKTVSRMKITKADLEQRH  
PQLDYVFTLAQNLKNKASSDMRTAITEKLERVKNQWDGTQHGV ELRQQQLEDMIIDSLQ  
WDDHREETEELMRKYEARLYILQQARRDPLTKQISDNQILLQELGPGDGIVMAFDNLVQK  
LLEEYGSDDTRNVKETTEY LKTSWINLKQSIADRQNALEAEWRTVQASRRDLENFLKWIQ  
EAETTVNVLV DASHRENALQDSILAREL KQQMQDIQAEIDAHNDIFKSIDGNRQKMVKAL  
GNSEEATMLQHRLDDMNQRWNDLKA KSASIRAHLEASA EKWNRLMSLEELIKWLNMKDE  
ELKKQMPIGGDVPALQLQYDHCKALRRELKEKEYSVLNAVDQARVFLADQPIEAPEEPRR  
NLQSKTELTP EERAQKIAKAMRKQSSEVKEK WESLNAVTSNWQKQVDKALEKLRDLQGAM  
DDLADAMKEAESVRNGWKPVGDLLIDSLQDHIEKIMAFREEIAPINFVKTVNDLSSQLS  
PLDLHPSLKMSRQLDDL NMRWKLQVSVDDRLKQLQEAHRDFGPSSQHFLSTSVQLPWQR  
SISHNKVPYYINHQTQTTCWDHPKMT ELFQSLADLNNVRFSAYRTAIKIRRLQKALCLDL

LLESTNEIFKQHKLNQNDQLLSVPDVINCLTTYDGLEQMHKDLVNVPLCVDMLNWL  
NVYDTGRTGKIRVQSLKIGLSLKGLEEKYRYLFKEVAGPTMCDQRQLGLLHDAIQ  
IPRQLGEVAAGGSNIEPSVRSCFQQNNKPEISVKEFIDWMHLEPQSMVWLPVLRHVA  
AETAKHQAKCNICECPIVGFYRSLKHFNYDVCQSCFFSGRTAKGHKLHYPMVEYCIPT  
TSGEDVRDFTKVLKNKFRSKKYFAKHPRLGYPVQTVLEGDNLETPITLISMWPEHYDPS  
QSPQLFHDDTHSRIEQYATRLAQMERTNGSFLTDSSSTGSVEDEHALIQYQCQTLGGES  
PVSQPQSPAQILKSVEREERGERLRIADLEEEQRNLQVEYEQLKDQHLRRGLPVGSPPE  
SIISPHTSESELIAEAKLLRQHKGRLEARMQILEDHNKQLESQHLRLRQLLEQPESDS  
RINGVSPWASPQHSALSYSLDPDASGPQFHQAAGEDLLAPPHDTSTDLEVMEQIHSTFP  
SCCPNVPSRPQAM

>sp|Q2YD98|UVSSA\_HUMAN UV-stimulated scaffold protein A OS=Homo sapiens GN=UVSSA PE=1 SV=2

MDQKLSKLVEELTTSGEPRLNPEKMKELKKICKSSEEQLSRAYRLLIAQLTQEHAEIRLS  
AFQIVEELFVRSHQFRMLVVSNFQEFLELTGTDPAQPLPPPREAAQLRQATTRAVEGW  
NEKFGEAYKKLALGYHFLRHKKVDFQDTNARSLAERKREEEKQKHLDKIYQERASQAER  
EMQEMSGEIESCLTEVESCFRLVVPDFDPNPETESLGMASGMSDALRSSCAGQVGPCRS  
GTPDPRDGEQCCSRDLPASAGHPRAGGGAQPSQTATGDPSEDEDSDEEFVRSHGLGS  
HKYTLDELVCSEGLKVQENEDNLALIHAARDTLKLIRNKFLPAVCSWIQRFTRVGTHGGC  
LKRAIDLKAELELVLRKYKELDIEPEGGERRRTEALGDAEEDEDEDFFEVEPEKEGYEPH  
IPDHLRPEYGLEAAPEKDTVVRCLRTRTRMDEEVSDPTAAAQLRQLRDHLPPSSASPS  
RALPEPQEAQKLAERARAPVVPYGVDLHYWGQELPTAGKIVKSDSQHRFWKPSEVEEEV  
VNADISEMLRSRHITFAGKFEPVQHWCRAPRPDGRLCERQDRLKCPFHGKIVPRDDEGRP  
LDPEDRAREQRRQLQKQERPEWQDPELMRDVEAATGQDLGSSRYSGKGRGKKRRYPSLTN  
LKAQADTARARIGRVFAKAARRVVAAMNRMDQKKHEKFSNQFNALN

>sp|P37288|V1AR\_HUMAN Vasopressin V1a receptor OS=Homo sapiens GN=AVPR1A PE=1 SV=1

MRLSAGPDAGPSGNSSPWPLATGAGNTSREAEALGEGNGPPRDVRNEELAKLEIAVLAV  
TFAVAVLGNSSVLLALHRTPRKTSRMHLFIRHLSLADLAVAFFQVLPQMCWDITYRFRGP  
DWLCRVVKHLQVFGMFASAYMLVVMADRYIAVCHPLKTLQQPARRSRLMIAAAWVLSFV  
LSTPQYFVFSMIEVNNVTKARDCWATFIQPWGSRAYVTWMTGGIFVAPVVILGTCYGFIC  
YNIWCNVRGKTASRQSKGAEQAGVAFQKGFLAPCVSSVKSISRKIRTVKMTFVIVTAY  
IVCWAPFFIIQMWSVWDPMSVWTESENPTITITALLGSLNSCCNPWIYMFSGHLLQDCV  
QSFPCQNMKEKFNKEDTDSMSRRQTfYSNNRSPTNSTGMWKDSPKSSKSIKFIPIVST

>sp|O15342|VAOE1\_HUMAN V-type proton ATPase subunit e 1 OS=Homo sapiens GN=ATP6VOE1 PE=2 SV=2

MAYHGLTVPLIVMSVFWGFGVGLVPWFIPKGPNRGVIITMLVTCSVCCYLFWLIAILAQL  
NPLFGPQLKNETIWIYLYHWP

>sp|P38606|VATA\_HUMAN V-type proton ATPase catalytic subunit A OS=Homo sapiens GN=ATP6V1A PE=1 SV=2

MDFSKLPKILDEDKESTFGYVHGVSGPVVTACDMAGAAMYELVRVGHSELVGEIIRLEGD  
MATIQVEETSGVSVGDPVLRGTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQSIYIPR  
GVNVSALSRDIKWDFTPCKNLRVGSHITGGDIYGIVSENSLIKHKIMLPPRNRGTVTYIA  
PPGNYDTSDVVLELEFEGVKEKFTMVQVWPVRQVRPVTEKLPANHPLLTGQRVLDALFPC  
VQGGTTAIPGAFGCGKTVISQSLSKYSNSDVIIYVGCGERGNEMSEVLDRDFPELTMEVDG  
KVESIMKRTALVANTSNNPVAAREASIYTGITLSEYFRDMGYHVSMMADSTSRWAEALRE

ISGRLEMPADSGYPAYLGARLASFYERAGRVKCLGNPEREGSVSIVGAVSPPGGDFSDP  
VTSATLGIVQVFWGLDKKLAQRKHFPVSNWLISYSKYMRALDEYYDKHFTEFVPLRTKAK  
EILQEEEDLAEIVQLVGKASLAETDKITLEVAKLIKDDFLQQNGYTPYDRFCPFYKTVGM  
LSNMIAFYDMARRAVETTAQSDNKITWSIIREHMGDILYKLSSMKFKDPLKDGEAKIKSD  
YAQLLEDMQNAFRSLED

>sp|Q9Y5K8|VATD\_HUMAN V-type proton ATPase subunit D OS=Homo sapiens GN=ATP6V1D PE=1 SV=1  
MSGKDRIEIFPSRMAQTIMKARLKGAQTGRNLLKKKSDALTLRFRQILKKIETKMLMGE  
VMREAAFSLAEAKFTAGDFSTTVIQNVNKAQVKIRAKKDNVAGVTLPVFEHYHEGTDSE  
LTGLARGGEQLAKLRNYAKAVELLVELASLQTSFVTLDEAIKITNRRVNAIEHVIIPRI  
ERTLAYIITELDEREREFEYRLKKIQEKKKILKEKSEKDLEQRRAGEVLEPANLLAEK  
DEDLLFE

>sp|P15692|VEGFA\_HUMAN Vascular endothelial growth factor A OS=Homo sapiens GN=VEGFA PE=1  
SV=2

MNFLLSWVHWSLALLLYLHHAKWSQAAPMAEGGGQNHHEVVKFMVDVYQRSYCHPIETLVD  
IFQEYPDEIEYIFKPSCVPLMRCCGCCNDEGLECVPTESNITMQIMRIKPHQGGHIGEM  
SFLQHNKCECRPKKDRARQEKKSVRGKGKGQKRKRKKSRYKSWSVYVGARCCCLMPWSLPG  
PHPCGPCSERRKHLFVQDPQTCKCCKNTDSRCKARQLELNERTCRCDKPRR

>sp|Q9NVA1|UQCC1\_HUMAN Ubiquinol-cytochrome-c reductase complex assembly factor 1 OS=Homo  
sapiens GN=UQCC1 PE=1 SV=3

MALLVRVLRNQTSISQWVPVCSRLIPVSPTQGGQDRALSRTSQWPQMSQSRACGGSEQIP  
GIDIQLNRKYHTTRKLSSTKDSQPVEEKVGAFTKIIEAMGFTGPLKYSKWKIKIAALRM  
YTSCVEKTDFEFFLRCQMPDTFNSWFLITLLHVWMCLVRMKQEGRSGKYMCRIIIVHFMW  
EDVQQGRGRVMGNPYILKKNMILMTNHFYAAILGYDEGILSDDHGLAAALWRTFFNRKCE  
DPRHLELLVEYVRKQIQYLD SMNGEDLLL TGEVSWRPLVEKNPQSILKPHSPTYNDEGL

>sp|Q8TCY9|URGCP\_HUMAN Up-regulator of cell proliferation OS=Homo sapiens GN=URGCP PE=1  
SV=2

MASPGIEVELLGKGHSDLGEVAPEIKASERRTAVAIADLEWREMEGDDCEFRYGDGTNEA  
QDNDFPTVERSRLQEMLSLLGLETYQVQKLSLQDSLQISFDSMKNWAPQVPKDLPNWFLR  
KLQALNADARNTTMVLDVLPDARPVEKESQMEEEIIYWDPAADLAADIYSFSELPTPDTP  
VNPLDLLCALLLSSDSFLQQEIALKMALCQFALPLVLPDSENHYHTFLLWAMRGIVRTWW  
SQPPRGMGSFREDSVVLSRAPAFAFVRMDVSSNSKSQLLNAVLSPGHRQWDCFWHRDNL  
GTNAREISDGLVEISWFFPSGREDLDIFPEPVAFNLNRGDIGSHWLQFKLLTEISSAVFI  
LTDNISKEYKLLYSMKESTTKYYFILSPYRGKRNTNLRFLNKLIPVLKIDHSHVLVKVS  
STDSDSFVKRIRAIIVGNVLRAPCRRVSVEDMAHAARKLGLKVEDCEECQAKDRMERIT  
RKIKSDAYRRDELRLQGDPWRKAAQVEKEFCQLQWAVDPPEKHRAELRRRLLELRMQQN  
GHDPSSGVQEFISGISSPSLSEKQYFLRWMEWGLARVAQPRLRQPPETLLTLRPKHGGTT  
DVGEPLWPEPLGVEHFLREMGQFYEAESCLVEAGRLPAGQRRFAHFPLASELLLTGLPL  
ELIDGSTLSMPVRWVTGLLKELHVRLERRSRLVVLSTVGVPGTGKSTLLNTMFGLRFATG  
KSCGPRGAFMQLITVAEGFSQDLGCDHILVIDSGGLIGGALTSAGDRFELEASLATLLMG  
LSNVTVISLAETKDIPAAIILHAFLRLEKTGHMPNYQFVYQNLHVDVSVPGPRPRDKRQLD  
PPGDL SRAAAQMEKQGDGFRALAGLAFCDPEKQHIWHIPGLWHGAPPMAAVSLAYSEAF  
ELKRCLLENIRNGLSNQKNIQQLIELVRRL

>sp|Q495M9|USH1G\_HUMAN Usher syndrome type-1G protein OS=Homo sapiens GN=USH1G PE=1 SV=1  
MNDQYHRAARDGYLELLKEATRKELNAPDEDMPTLWAAHYHGNLESLRLIVSRGGDPDK

CDIWGNTPLHLAASNGHLHCLSFLVSFGANIWCLDNDYHTPLDMAAMKGHMECVRYLDSI  
AAKQSSLNPKLVGKLKDKAFREAERRIRECAKLQRRHHERMERRYRRELAERSDTLSFSS  
LTSTLSRRLQHLALGSHLPYSQATLHGRTARGTKMQKKLERRKQGGEGTFKVSSEDGRKS  
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SGHDSLFTRPGLGTMVFRNYLSSGLHGLGREDGGLDGVGAPRGRLQSSPSLDDDSLGA  
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>sp|075445|USH2A\_HUMAN Usherin OS=Homo sapiens GN=USH2A PE=1 SV=3

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HSNSASFIFGNHKSCFSSPPSPKLMASFTLAVWLKPEQQGVMCVIEKTVDGQIVFKLTIS  
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TLGSIITDFASGTVIGQSLNGLEQFVGRMQDFRLYQVALTNREILEVFSGDLLRLHAQS  
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NITQLNQGVITISVDLENGQYQVFYIIQFFSPQPTAIRIRKKENSLDWEDWQYFARNCG  
AFGMKNNGDLEKPD SVNCLQLSNFTPYSRGNVTFSILTPGPNYRPGYNNFYNTPSLQEFV  
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QCNCRRHVSGRQCNCQNGFYNLQELDPDGCSPCNCNTSGTVGDITCHQNSGQCKCKAN  
VIGLRDCHCNFGFKFLRSFNDVGCEPCQCNLHGSVNKFCNPHSGQCECKKEAKGLQCDTC  
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SFLCLPCNCDKTGTINGSLCNCSTGQCPCKLGVTLRCNQCEPHRYNLTIDNFQHCQMC  
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CFCKQFVTGSKDACVPSASHLDVNNLLGCSKTPFQQPPRQVQSSSAINLSWSPDPSP  
NAHWLTYSLLRDGFEIYTTEDQYPYSIQYFLDLDLLPYTKYSYIETTNVHGSTRSVAVT  
YKTKPGVPEGNLTSYIIPIGSDSVTLTWTTLNNSQSGPIEKYILSCAPLAGGQPCVSYEG  
HETSATIWNLVFPAKYDFSVQACTSGGCLHSLPITVTTAQAPPQRLSPPKMQKISSTELH  
VEWSPPAELNGIIIRYELYMRLRSTKETTSEESRVFQSSGWLSPHSFVESANENALKPP  
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QLERRESSLPALMTTMMKGIRFIGNGYCKFPSSTHPVNTDFTGIKASFRTKVPEGLIVFA  
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NKV I IKKEGSFISASVNLGMKHASESGDQPLVNSPVYVGGIPQELLNSYQHLCLEQGF  
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TESSHALNISTPQEAQEQVQPPVAKSLPSSLLLSWNPPKKANGIITQYCLYMDGRLIYSG  
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SNDLECCGGEEGVVYNRLPGMFCCGQDYVNMSDTICCSASSGESKAHIKKNDPVPVKCCE  
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TSHICTVIRGSHNSTGKASIEEMCSSAEETIHTGSVNTYSYTDVNLKPYMTYEYRISAWN  
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LSAVALHLSWSVPEKSNGVIKEYQIRQVGKGLIHTDTTDRRQHTVTGLQPYTNYSFTLTA  
CTSAGTSSEPFLGQTLQAAPGVVWTPRHIIINSTTVELYWSLPEKPNGLVSQYQLSRN  
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PGVEYSYTVTASNSQGGILSPLVKDRTPSPAPSMEPPKLQARGPQEILVNWDPPVRTNG  
DIINYTLFIRELFERETKIIHINTTHNSFGMQSYIVNQLKPFHRYEIRIQACTTLGCASS  
DWTFIQTPEIAPLMQPPPHLEVQMAPGGFQPTVSLWTGPLQPNKVLYYELYRRQIATQ  
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YSIGVEACTCFNCCSKGPTAELRTHPAPPSGLSSPQIGTLASRTASFRWSPPMFPNGVIH  
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EWISFTTQKELPQYRAPFSVDSNLSVVCVNWSDTFLLNGQLKEYVLT DGRRVYSGLDTT  
LYIPRTADKTFFFQVICTTDEGSVKTPLIQYDTSTGLGLVLTTPGKKKGSRSKSTEFYSE  
LWFIVLMAMLGLILLAIFLSLILQRKIHKEPYIRERPPPLVPLQKRMSPLNVYPPGENHMG  
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SLWEAIMGHNSGLYVDEEDLMNAIKDFSSVTKERTTFTDTHL

>sp|Q765I0|UTS2B\_HUMAN Urotensin-2B OS=Homo sapiens GN=UTS2B PE=3 SV=2

MNKILSSTVCFGLLTLLSVLSFLQSVHGRPYLTQGNEIFPDKKYTNREELLALLNKNFD  
FQRPFNTDLALPNKLEELNQLEKLKEQLVEEKDSETSYAVDGLFSSHP SKRACFWKYCV

>sp|Q9P2Y5|UVRAG\_HUMAN UV radiation resistance-associated gene protein OS=Homo sapiens  
GN=UVRAG PE=1 SV=1

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LLDITYFTLHLCSTEKIYKEFYRSEVIKNSLNPTWRSLDFGIMPDRLDTSVSCFVVKIWGG  
KENIYQLLIEWKVC LDGLKYLGGQIHARNQNEIIFGLNDGYYGAPFEHKGY SNAQKTILL  
QVDQNCVRNSYDVFSLLRLHRAQCAIKQTQVTQKIGKEIEEKLRLTSTS NELKKKSECL  
QLKILVLQNELERQKKALGREVALLHKQQIALQDKGSAFSAEHLKLQLQKESL NELRKEC  
TAKRELFLKTNAQLTIRCRQLSELSYIYPIDLNEHKDYFVCGVKLPNSED FQAKDDGSI  
AVALGYTAHLVSMISFFLQVPLRYP I IHKGSRSTIKDNINDKLTEKEREFP LYPKGGEKL  
QFDYGVYLLNKNI AQLRYQHGLGTPDLRQTL PNLKNFMEHGLMVRCDRHHTSSAIPV PKR  
QSSIFGGADVGFSGGIPSPDKGHRKRASSENERLQYKTPPPSYNSAL AQPVTTVPSMGET  
ERKITSLSSSLDTS LDFS KENKKGEDLVGSLNGGHANVHPSQE QGEALSGHRATVNGTL  
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VAVECDEQVLGEFE EFSRRIYALNENVSSFRPRRSSDK

>sp|Q9H320|VCX1\_HUMAN Variable charge X-linked protein 1 OS=Homo sapiens GN=VCX PE=2 SV=1

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AVTAPEAESAPAAPGPSDQPSQELPQHELPPEEPVSEGTQHDPLSQAELEEPLSQE SEV  
EEPLSQESQVEEPLSQESEVEEPLSQESQVEEPLSQESEVEEPLSQESQVEEPLSQE SEM  
EEPLSQESQVEEPPSQESEMEELPSV

>sp|Q9Y277|VDAC3\_HUMAN Voltage-dependent anion-selective channel protein 3 OS=Homo  
sapiens GN=VDAC3 PE=1 SV=1

MCNTPTYCDLGKAAKDVFNGYGF GMVKIDLKTKSCSGVEFSTSGHAYTDTGKASGNLET  
KYKVCNYGLTFTQKWNTDNTLGTEISWENKLA EGLKLTLDTIFVPNTGKKSGKLKASYKR  
DCFSVGSNVDIDFSGPTIYGWAVLAFEGWLAGYQMSFDTAKSKLSQNNFALGYKAADFQL  
HTHVNDGTEFGGSIYQKVNEKIETSINLAWTAGSNNTRFGIAAKYMLDCRTSLSAKVNNA  
SLIGLGYTQTLRPGVKLTLSALIDGKNFSAGGHKVG LGELEA

>sp|P11473|VDR\_HUMAN Vitamin D3 receptor OS=Homo sapiens GN=VDR PE=1 SV=1

MEAMAASTSLPDGDFDRNVPRICGVC GDRATGFHFNAMTCEGCKGFFRRSMKRKALFTC  
PFNGDCRITKDNRRHCQACRLKRCVDIGMMKEFILTDEEVQRKREMILKRKEE EALKDSL  
RPKLSEEQQRI IAILLDAHHKTYDPTYSDFCQFRPPVRVNDGGGSHPSRPNSRHTPSFSG  
DSSSSCSDHCITSSDMM DSSSFSNLDLSEEDSDPSVTLELSQLSMLPHLADLVSYSIQK  
VIGFAKMIPGFRDLTSEDQIVLLKSSAIEVIMLRSNESFTMDDMSWTCGNQDYKYRVSDV  
TKAGHSLELIEPLIKFQVGLKKLNLHEEEHVLLMAICIVSPDRPGVQDAALIEAIQDRLS  
NTLQTYIRCRHPPPGSHLLYAKMIQKLADLRSLNEEHSKQYRCLSFQPECSMKLTPLVLE

VFGNEIS

>sp|P40337|VHL\_HUMAN Von Hippel-Lindau disease tumor suppressor OS=Homo sapiens GN=VHL  
PE=1 SV=2

MPRRAENWDEAEVGAEEAGVEEYGPPEEDGGEEESGAESGPESGPEELGAEEEMEAGRPR  
PVLRSVNSREPSQVIFCNRSRVLVLPVWLNFDGEPQPYPTLPPGTGRRIHSGHLWLFR  
DAGTHDGLLVNQTELFVPSLNVGQPIFANITLPVYTLKERCLQVVRSLVKPENYRRLDI  
VRSLYEDLEDHPNVQKDLERLTQERIAHQRMGD

>sp|P06133|UD2B4\_HUMAN UDP-glucuronosyltransferase 2B4 OS=Homo sapiens GN=UGT2B4 PE=1  
SV=2

MSMKWTSALLLIQLSCYFSSGSCGKVLVWPTEFSHWMNIKTILDELVQRGHEVTVLASSA  
SISFDPNPSTLKFVEYVPSLTKTEFEDIKQLVKRWAE LPKDTFWSYFSQVQEIMWTFN  
DILRKFCCKDIVSNKKLMKKLQESRFDVVLADAVFPFGELLAELLKIPFVYSLRSPGYAI  
EKHSGGLLPSPSYVPVMSLSDQMTFIERVKNMIYVLYFEFWFQIFDMKKWDQFYSEVL  
GRPTTLSETMAKADIWLIRNYWDFQFPHPLPNVEFVGGLHCKPAKPLPKEME EFVQSSG  
ENGVVVFLSGMSVNTSEERANVIASALAKIPQKVLWRFDG NKPDTLGLNTRLYKWIPQN  
DLLGHPKTRAFITHGGANGIYEAIYHGIPMGVPLFADQPDNIAHMKAKGA AVSLDFHTM  
SSTDLLNALKTVINDPLYKENAMKLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAA  
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>sp|Q9BY64|UDB28\_HUMAN UDP-glucuronosyltransferase 2B28 OS=Homo sapiens GN=UGT2B28 PE=1  
SV=1

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SILFDPNDAFTLKLEVYPTSLTKTEFENIIMQQVKRWSDIQKDSFWLYFSQEQEILWEFH  
DIFRNFCCKDVVSNNKVMKKLQESRFDIIFADAFPCGELLAALLNIPFVYSLCFTPGYTI  
ERHSGGLIFPPSYIPVMSKLSQMTFMERVKNMIYVLYFDFWFQMCDMKKWDQFYSEVL  
GRPTTLFETMGKADIWLMRNSWFSQFPHPLPNIDFVGGLHCKPAKPLPKEME EFVQSSG  
ENGVVVFLSGSVISNMTAERANVIATALAKIPQKVLWRFDG NKPDALGLNTRLYKWIPQN  
DLLGLPKTRAFITHGGANGIYEAIYHGIPMGVPLFWDQPDNIAHMKAKGA AVRLDFHTM  
SSTDLLNALKTVINDPSYKENVMKLSIIQHDQPVKPLHRAVFWIEFVMCHKGAKHLRVAA  
RDLTWFQYHSLDIVGFLACVATVIFVVTKFCLFCFWKFARKGKKGKRD

>sp|P00749|UROK\_HUMAN Urokinase-type plasminogen activator OS=Homo sapiens GN=PLAU PE=1  
SV=2

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HCEIDKSKTCYEGNGHFYRGKASTDTMGRPCLPWSATVLQQTYHAHRSDALQLGLGKH  
YCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEELKFQCGQKTLRPRFKII  
GGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISATHCFIDYPKKEDIYVYL  
RSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICL  
PSMYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLISHRECQPHYYGSEVTTKML  
CAADPQWKTDSCQGD SGGPLVCSLQGRMTLTGIVSWGRGCALDKPGVYTRVSHFLPWIR  
SHTKEENGLAL

>sp|Q92738|US6NL\_HUMAN USP6 N-terminal-like protein OS=Homo sapiens GN=USP6NL PE=1 SV=3

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VAVERQKHLEIERTTKWLKMLKGWEKYKNTK FHRRIYKGIPLQLRGEVWALLLEIPKMK  
EETRDLYSKLKHRRAGCSPDIRQIDLDVNRTRFDHIMFRDRYGVKQQSLFHVLAAYSIYN  
TEVGYCQGMSQITALLMYMNEEDAFWALVKLFSGPKHAMHGFFVQGF PKLLRFQEHHEK

ILNKFLSKLKQHLDSEIYTSFYTMKWFFQCFLDRTPTLNLRIWDIYIFEGERVLTAMS  
YTILKLHKKHLMKLSMEELVEFFQETLAKDFFFEDDFVIEQLQISMTELKRAKLDLPEPG  
KEDEYPPKPLGQLPPELQSWGVIHLSNGQSVGRPSPLASGRRESGAPHRHESHPHQS  
RTGTPERAQPPRRKSVEEESKKLKDEADFQRKLPSGPQDSSRQYNHAAANQNSNATSNIR  
KEFVPKWNKPSDVSATERTAKYTMKGKRAHPALAVTVGPAEVRVSNVRPKMKALDAE  
DGKRGSTASQYDNVPGPELDSGASVEEALERAYSQSPRHALYPPSPRKAEPSSSSPSKVS  
NKFTFKVQPPSHARYPSQLDGEARGLAHPPSYSNPPVYHGNSPKHFPTANSSFASPQFSP  
GTQLNPSRRPHGSTLSVSASPEKSYSRPSPLVLPSSRIEVLVDTGAGGYSGNSGSPKNG  
KLIIPPVDYLPDNRWTSEVSYTYRPETQGGQSWTRDASRGNLPKYSAFQLAPFQDHGLPAV  
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>sp|Q93008|USP9X\_HUMAN Probable ubiquitin carboxyl-terminal hydrolase FAF-X OS=Homo  
sapiens GN=USP9X PE=1 SV=3

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RDGLTISFTKILTDEAVSGWKFEIHRCIINNTHLVELCVAKLSQDWFPLELLAMALNP  
HCKFHIYNGTRPCESVSSSVQLPEDELFAKSPDPRSPKGWLDLLNKFGTLNGFQILHDR  
FINGSALNVQIIAALIKPFGQCYEFLTLHTVKKYFLPIIEMVPQFLENLTDEELKKEAKN  
EAKNDALSMIISLKNLASRVPGQEETVKNLEIFRLKMILRLQLISSFNGKMNALNEVVK  
VISSVSYYTHRHGNPEEEEWLTAERMAEWIQNNILSIVLRDSLHQPQYVEKLEKILRFV  
IKEKALTQLDLNIIWAAQAGKHEAIVKNVHDLAKLAWDFSPEQLDHLFDCFASWTNAS  
KKQREKLLELIRRLAEDDKDGMHAKVLNLLWNLHSDDPVVDIMDLALSAHIKILDYSC  
SQDRDTQKIQWIDRFIEELRTNDKWVIPALKQIREICSLFGEAPQNLSQTQRSPHVFYRH  
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LRFLKDGQLWLCAPQAKQIWKCLAENAVYLCDREACFKWYSKLMGDEPDLPDINKDFF  
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SNDDIASRAIDLLEIYTNLGPRLQVNQVVIHEDFIQSCFDRKASYDTLCVLDGDKDSV  
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DLEVWSHTNDTIGSVRRCILNRIKANVAHTKIELFVGGEIDPADDRKLIGQLNLKDKSL  
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METRRGAYLNALKIAKLLLTAIGYGHVRAVAEACQPGVEGVNPMQTINQVTHDQAVVLS  
ALQSIIPNPSSECMRLNVSVRLAQQISDEASRYMPDICVIRAIQKIIWASGCGSLQLVFSP  
NEEITKIYEKTNAGNEPDLEDEQVCEALEVMTLCFALIPTALDALSKEKAWQTFIIDLL  
LHCHSKTVRQVAQEQQFLMCTRCCMGHRPLLFFITLLFTVLGSTARERAKHSGDYFTLLR  
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NVDIRNHQNLDSLEQYVKGDLLGANAYHCEKCNKKVDTVKRLLIKLPVLAIQLKRF  
DYDWERECAIKFNDYFEFPRELMEPYTVAGVAKLEGDNVNPESQLIQQSEQSESETAGS  
TKYRLVGVLVHSGQASGGHYYSYIIQRNGDGERNRWYKFDGDVTECKMDDDEEMKNQC

FGGEYMGEVFDHMMKRMSYRRQKRWWNAYILFYERMDTIDQDDELIRYISELAITTRPHQ  
IIMPSAIERSVRKQNVQFMHNRMQYSMEYFQFMKKLLTCNGVYLNPPPGQDHLLEAEEI  
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SEYLLECPSAEVRGAFAKLIVFIAHFSLQDGPCSPFASPGPSSQAYDNLSLSDHLLRAV  
LNLLRREVSEHGRHLQQYFNLVVMYANLGVAEKTQLLKLSVPATFMLVSLDEGPGPIKY  
QYAELGKLYSVVSQLIRCCNVSSRMQSSINGNPPLPNPFGDPNLSQPIMPIQQNVADILF  
VRTSYVKKIIEDCSNSEETVKLLRFCCWENPQFSSTVLSELLWQVAYSITYELRPYLDLL  
LQILLIEDSWQTHRIHNALKGIPDDRGLFDTIQRSKNHQKRAYQCIKCMVALFSNCPV  
AYQILQGNDLKRKWTWAVEWLGDELERRPYTGNPQYTYNNWSPPVQSNETSNGYFLERS  
HSARMTLAKACELCPEEVKATSVQQIEMEESKEPDDQDAPDEHESPPPEDAPLYPHSPG  
SQYQQNNHVHGQPYTGPAAHMNNPQRTGQRAQENYEGSEEVSPQTKDQ

>sp|Q9Y2C2|UST\_HUMAN Uronyl 2-sulfotransferase OS=Homo sapiens GN=UST PE=2 SV=1

MKKKQHPGGGADPWPFGAPMGGAPPGLGSWKRRVPLLPFLRFSLRDYGFCMATLLVFCL  
GSLLYQLSGGPPRFLDLRQYLGNSTYLDHGGPPSKVLPFSPQVVYNRVGKCGSRTVVL  
LLRILSEKHGFNLVTSDIHNKTRLTKNEQMELIKNIATAEQPYLFTRHVHFLNFSRFGGD  
QPVIINIIRDPVNRFLSNYFFRRFGDWRGEQNHMIRTPSMRQEERYLDINECILENYPEC  
SNPRLFYIIPYFCGQHPRCREPGEWALERAKLVNENFLLVGILEELEDVLLLLERFLPH  
YFKGVLSIYKDPEHRKLGNMVTVVKKTVPSPQAVQILYQRMRYEYEFYHYVKEQFHLLKR  
KFGKSHVSKPPLRPHFFIPTPLETEEPIDDEEQDDEKWLEDIYKR

>sp|Q5TAP6|UT14C\_HUMAN U3 small nucleolar RNA-associated protein 14 homolog C OS=Homo sapiens GN=UTP14C PE=1 SV=1

MNVNQVAENLALSHQEELVDLPKNYPLSENEDEGSDGERKHQKLLEAIIISLDGKNRRKL  
AERSEASLKVSEFSVSSEGSGEKLGLADLLEPVKTSSSLATVKKQLNRVKSCKVVELPLN  
KEKIEQIHREVAFSKTSQVLSKWDPILKNQQAQLVFPLGKEQPAIPIEHALSGWKAR  
TPLEQEIFNLLHKNKQPVTDPPLTPMEKASLQAMSLEEAKMHRAELQRARALQSYEAKA  
RKEKKIKSKKYHKVVKKGKAKKALKEFEQLQKVNPTVALEEMEKIENARMMERMSLKHQN  
SGKWAKSKAIMAKYDLEARQAMQEQLAKNKELTQKLQVASESEEEEGGTEVEELLVPHVA  
NEVQMNVDGPNPWFMRSDTSDTKEAATQEDPEQVPELAAEVSASEAERPVAEEEEILLR  
EFEERQSLRKRSELNQDAEPASSQETKSSSQEVLSELRLSQKLKEKHQSRKQKASSEG  
TVPVQVQREEPAPEEAEPLLLQRSERVQTLLEELEELGKEDCFQNKELPRPVLEGQQSERTP  
NNRPDAPKEKKEKEQLINLQNFLTQSPSVRSLAVPTIIEELEDEEERDQRQMIKEAFAG  
DDVIRDFLKEKREAVEASKPKDVLTLPGWGEWGGVGLKPSAKKRRQFLIKAPEGPPRKD  
KNLPNVIISEKRNIHAAHQVQVLPYPFTHHRQFERTIQTPIGSTWNTQRAFQKLTPPKV  
VTKPGHIIKPIKAEDVGYSQSSSRSDLPVIQRNPKRITTRHNKEEL

>sp|Q9Y5J1|UTP18\_HUMAN U3 small nucleolar RNA-associated protein 18 homolog OS=Homo sapiens GN=UTP18 PE=1 SV=3

MPPERRRRMKLDRRTGAKPKRKPGRPDWKAGAGPGGPPQKPAPSSQRKPPARPSAAAAA  
IAVAAAEERRLRQRNRLLEEDKPAVERCLEELVFGDVENEDALLRRLRGRVQEHEH  
SGDSEVENEAKGNFPQKKPVWVDEDEDEEMVDMNNRFRKDMKNASESKLSKDNLKK  
RLKEEFQHAMGGVPAWAETTKRKTSSDDESEDEEDDLLQRTGNFISTSTSLPRGILKMKN  
CQHANAERPTVARISSVQFHPGAQIVMVAGLDNAVSLFQVDGKTNPKIQSIYLERFPIFK  
ACFSANGEVVLATSTHSKVLVYDMLAGKLIPVHQVRGLKEKIVRSFEVSPDGSFLLING  
IAGYLHLLAMKTKELGSMKINGRVAASTFSSDSKKVYASSGDGEVYVWDVNSRKCLNRF  
VDEGSYGLSIATSRNGQYVACGSNCGVNNIYNQDSCLQETNPKEIKAIMNLVTGVTSLT

FNPTTEILAIASEKMKEAVRLVHLPSCTVFSNFPVIKKNISHVHTMDFSPRSGYFALGN  
EKGKALMYRLHHYSDF

>sp|Q16572|VACHT\_HUMAN Vesicular acetylcholine transporter OS=Homo sapiens GN=SLC18A3  
PE=1 SV=2

MESAEPAGQARAAATKLSEAVGAALQEPRRQRRLLVLVIVCVALLLDNMLYMVIVPIVPDY  
IAHMRGGGEGPTRTPEVWEPTLPLPTPANASAYTANTSASPTAAWPAGSALRPRYTESE  
DVKIGVLFASKAILQLLVNPLSGPFIDRMSYDVPLLI GLGVMAFASTVLF AFAEDYATLFA  
ARSLQGLGSAFADTSGIAMIADKYPEEPERSRALGVALAFISFGSLVAPPFGGILYEFAG  
KRVPFVLVAASVLF DALLLLAVAKPFSAAARARANLPVGTPIHRLMLDPYIAVVAGALTT  
CNIPLAFLEPTIATWMKHTMAASEWEMGMAWLP AFVPHVLGVYLTVRLAARYPHLQWLYG  
ALGLAVIGASSCIVPACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVS VYGSV  
YAIADISYSVAYALGPVIVAGHIVHSLGFEQLSLGMGLANLLYAPVLLLLRNVGLLTRSRS  
ERDVLLEPPQGLYDAVRLRERPVSGQDGEPRSPPGPFDACEDDYNYYYTRS

>sp|Q9HCJ6|VAT1L\_HUMAN Synaptic vesicle membrane protein VAT-1 homolog-like OS=Homo  
sapiens GN=VAT1L PE=1 SV=2

MAKEGVEKAEETEQMIEKEAGKEPAEGGGDGS HRLGDAQEMRAVVL AGFGGLNKLRLFR  
KAMPEPQDGELKIRVKACGLNFIDLMVRQGNIDNPPKTPLPVPGFECSGIVEALGDSVKGY  
EIGDRVMAFVNYNAAEVVCTPVEFVYKIPDDMSFSEAAAFPMNFVTAYVMLFEVANLRE  
GMSVLVHSAGGGVGQAV AQLCSTVPNVTVFGTASTFKHEAIKDSVTHLFDRNADYVQEVK  
RISAEGVDIVLDCLCGDNTGKGLSLLKPLGTYILYGSSNMVTGETKSFFSFAKSWVQVEK  
VNPIKLYEENKVIAGFSLLNLLFKQGRAGLIRGVVEKLIGLYNQKKIKPVVDSLWALEEV  
KEAMQRIHDRGNIGKLILDVEKTPTPLMANDSTETSEAGEEEEDEHGDSENKERMPFIQ

>sp|O75348|VATG1\_HUMAN V-type proton ATPase subunit G 1 OS=Homo sapiens GN=ATP6V1G1 PE=1  
SV=3

MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEA  
AALGSRGSCSTEVEKETQEKM TILQTYFRQNRDEVLDNLLAFVCDIRPEIHENYRING

>sp|Q96LB4|VATG3\_HUMAN V-type proton ATPase subunit G 3 OS=Homo sapiens GN=ATP6V1G3 PE=2  
SV=1

MTSQSQGIHQLLQAEKRAKDKLEEAKKRKGKRLKQAKEEAMVEIDQYRMQRDKEFRLKQS  
KIMGSQNNLSDEIEEQTLGKIQELNGHYNKYMESVMNQLLSMVCDMKPEIHVN YRATN

>sp|Q9UKP6|UR2R\_HUMAN Urotensin-2 receptor OS=Homo sapiens GN=UTS2R PE=1 SV=1

MALTPESPSSFPLAATGSSVPEPPGGPNATLNSSWASPTESPSSLEDLVATGTIGTLLSA  
MGVVG VGNAYTLVVTCSRSLRAVSMYVVVNLALADLLYLLSIPFIVATYVTK EWHFGD  
VGCRVLFGLDFTLTHASIFTLTMSSERYAAVLRPLDTVQRPKGYRKLLALGTWLLALLL  
TLPVMLAMRLVRRGPKSLCLPAWG PRAHAYLTLLFATSIAGPGLLIGLLYARLARAYRR  
SQRASFKRARRPGARALRLVLGIVLLFWACFLPFWLWQLLAQYHQAPLAPRTARIVNYLT  
TCLTYGNSCANPFLYTLLTRNYRDHLRGRVRGPGSGGGRGPVPSLQPRARFQRCSGRSLS  
SCSPQPTDSLVLAPAAPARPAPEGPRAPA

>sp|Q96IX5|USMG5\_HUMAN Up-regulated during skeletal muscle growth protein 5 OS=Homo  
sapiens GN=USMG5 PE=1 SV=1

MAGPESDAQYQFTGIKKYFNSYTLTGRMNCVLATYGSIALIVLYFKLRSKKT PAVKAT

>sp|Q9UBK9|UXT\_HUMAN Protein UXT OS=Homo sapiens GN=UXT PE=1 SV=1

MATPPKRRAVEATGEKVLRYETFISDVLQRDLRKVLDHRDKVYEQLAKYLQLRNVIERLQ  
EAKHSELYMQVDLGCNFFVDTVVPDTSRIYVALGYGFFLELTLAEALKFIDRKSSLLTEL

SNSLTKDSMNIKAHIHMLLEGLRELQGLQNFPEKPHH

>sp|Q8N8Y2|VAOD2\_HUMAN V-type proton ATPase subunit d 2 OS=Homo sapiens GN=ATP6VOD2 PE=2 SV=1

MLEGAELYFNVDHGYLEGLVRGCKASLLTQQDYINLVQCETLEDLKIHLQTTDYGNFLAN  
HTNPLTVSKIDTEMRKRLCGEFYFRNHSLEPLSTFLTYMTCSYIDNVILLMNGALQKK  
SVKEILGKCHPLGRFTEMEAVNIAETPSDLFNAILIETPLAPFFQDCMSENALDELNIEL  
LRNKLYKSYLEAFYKFCKNHGDVTAEVMCPILEFEADRRAFIITLNSFGTELSKEDRETL  
YPTFGKLYPEGLRLLAQAEFDQMKNVADHYGVYKPLFEAVGGSGGKTLEDVFYEREVQM  
NVLAFNRQFHGYFYAYVKLKEQEIRNIVWIAECISQRHRTKINSYIPIL

>sp|P21281|VATB2\_HUMAN V-type proton ATPase subunit B, brain isoform OS=Homo sapiens GN=ATP6V1B2 PE=1 SV=3

MALRAMRGIVNGAAPELPVPTGGPAVGAREQALAVSRNYLSQPRLTYKTVSGVNGPLVIL  
DHVKFPRYAEIVHLTLPDGTKRSGQVLEVSGSKAVVQVFEGTSGIDAKKTSCEFTGDILR  
TPVSEDMLGRVFNGSGKPIDRGPVLAEDFLDIMGPINPQCRIYPEEMIQTGISAIDGM  
NSIARGQKIPISAAAGLPHNEIAAQICRQAGLVKSKDVVDYSEENFAIVFAAMGVNMET  
ARFFKSDFEENGSMNVCLFLNLANDPTIERIITPRLALTTAEFLAYQCEKHVLVILTDM  
SSYAEALREVSAAAREEVPGRRGFGPYMYTDLATIIYERAGRVEGRNGSITQIPILTMPNDD  
ITHPIPDLTGYITEGQIYVDRQLHNRQIYPPINVLPSLSRLMKSAGGEMTRKDHADVSN  
QLYACYAIGKDVQAMKAVVGEEALTSDDLYLEFLQKFERNFIAQGPYENRTVFETLDIG  
WQLLRIFPKEMLKRIPIQSTLSEFYPRDSAKH

>sp|Q96A05|VATE2\_HUMAN V-type proton ATPase subunit E 2 OS=Homo sapiens GN=ATP6V1E2 PE=1 SV=1

MALSDVDVKKQIKHMMAFIEQEANEKAEEDAKAEFEFNIEKGRLVQTQRLKIMEYYEKK  
EKQIEQQKKILMSTMNRNARLKVLRARNDLISDLLSEAKLRLSRIVEDPEVYQGLLDKLV  
LQGLLRLLPEVMIVRCRPQDLLVEAAVQKAIPEYMTISQKHVEVQIDKEAYLAVNAAGG  
VEVYSGNQRIKVSNTLESRLDLSAKQKMPEIRMAFGANTNRKFFI

>sp|O15240|VGF\_HUMAN Neurosecretory protein VGF OS=Homo sapiens GN=VGF PE=1 SV=2

MKALRLSASALFCLLLINGLGAAPPGRPEAQPPLSSEHKPVAGDAVPGPKGSAPEVR  
GARNSEPQDEGELFQGVDPRALAALLQALDRPASPPAPSGSQGPAAAAEALLTETVR  
SQTHSLPAPESPEPAAPPRPQTPENGPEASDPSEEEALASLLQELRDFSPSSAKRQQT  
AAAEETETRTHTLTRVNLESPGPERVWRASWGEFQARVPERAPLPPAPSQFQARMPDSGP  
LPETHKFGEGVSSPKTHLGEALAPLSKAYQGVAAFPKARRPESALLGGSEAGERLLQQG  
LAQVEAGRRAEATRQAAAQEERLADLASDLLQYLLQGGARQRLGGRGLQEAAEERES  
AREEEAEQERRGGEERVGEEDDEEAEEAEAEAEERARQNALLFAEEEDGEAGAEKRS  
QEETPGHRRKEAEGTEEGGEEEDDEMDPQTIDSLIELSTKLHLPADDVVSIIEEVEEKR  
KRKKNAPPEPVPPPRAAPATHVRSPQPPPPAPAPARDELPDWNEVLPPWDREDEVYPP  
GPYHPFPNYIRPTLQPPSALRRRHYYHALPPSRHYPGREARQARRAQEEAEAEERLQEQ  
EELNYIEHVLLRRP

>sp|Q9Y4B6|VPRBP\_HUMAN Protein VPRBP OS=Homo sapiens GN=VPRBP PE=1 SV=3

MTTVVHVHDSKAELTTLLEQWEKEHSGQDMVPILTRMSQLIEKETEEYRKGDPPFDDR  
HPGRADPECMLGHLLRILFKNDFFMNALVNAYVMTSREPPLNTAACRLLLDIMPGLTAV  
VFQEKEGIVENLFWAREADQLRSTGLLGAMENQDIAANYRDENSQLVAVLRLRLR  
ELQLQEVALRQENKRPSPKLSSEPLPLDEEAVDMYGDMAVDVVDGDQEEASGDMEIS  
FHLDSGHKTSSRVNSTTKPEDGGLKKNKSAKQGDRENFRKAKQKLGFSSSDPDRMFVELS

NSSWSEMPWVIGTNYTLYPMTPAIEQRLILQYLTPLGEYQELLPIFMQLGSRELMFYI  
DLKQTNVLLTFEALKHLASLLHKNKFATEFVAHGGVQKLEIPRPSMAATGVSMCLYYL  
SYNQDAMERVCMHPHNVLSDVVNYTLWLMECSHASGCCCHATMFFSICFSFRAVLELFDRY  
DGLRRLVNLISTLEILNLEDQGALLSDDEIFASRQTGKHTCMALRKYFEAHLAIKLEQVK  
QSLQRTEGGILVHPQPPYKACSYTHEQIVEMMEFLIEYGPAQLYWEPAEVFLKLSCVQLL  
LQLISIACNWKTYARNDTVRFALDVLAILTVVPKIQQLAESVDVLDEAGSTVSTVGIS  
IILGVAEGEFFIHDAEIQKSALQIIINCVCQPDNRISIGKFISGTPRRKLQNPKSSEH  
TLAKMWNVVQSNNGIKVLLSLLSIKMPITDADQIRALACKALVGLSRSTVRQIIISKLPL  
FSSCQIQQLMKEPVLQDKRSDHVFKCYAAELIERVSGKPLLIGTDVSLARLQKADVVAQ  
SRISFPEKELLLLIRNHLISKGLGETATVLTKEADLPMTAASHSSAFTPVTAASPVSPLP  
RTPRIANGIATRLGSHAAVGASAPSAPTAPHPQPRPPQGPLALPGPSYAGNSPLIGRISFI  
RERPSPCNGRKIRVLRQKSDHGAYSQSPAIAKKQLDRHLSPPTLDSIIITEYLREQHARCK  
NPVATCPPFSLFTPHQCPEPKQRRQAPINFTSRLNRRASFPHYGGVDGGCFDRHLIFSRF  
RPISVFREANEDESFGTCCAFSARERFLMLGTCTGQLKLYNVFSGQEEASYNCHNSAITH  
LEPSRDGSLLLTSATWSQPLSALWGMKSVFDMKHSFTEDHYVEFSKHSQDRVIGTKGDIA  
HIYDIQTGNKLLTLFNPDLANNYKRCATFNPTDDLVLNDGVLWDVRSQAIIHKFDKFNM  
NISGVFHPNGLEVIINTEIWDLRTFHLLHTVPALDQCRVVFNHTGTVMYGAMLQADDEDD  
LMEERMKSPFGSSFRFTNATDYKPIATIDVKRNIFDLCTDTKDCYLAVIENQGSMDALNM  
DTVCRLYEVGRQLAEDEDEEEDQEEEEQEEEDDEDDDDTDDLDELDTQLEAELEED  
DNNENAGEDGDNDFSPSDEELANLLEEGEDGEDESDADEEVELILGDTSSDNSDLEDD  
IILSLNE

>sp|Q9H269|VPS16\_HUMAN Vacuolar protein sorting-associated protein 16 homolog OS=Homo sapiens GN=VPS16 PE=1 SV=2

MDCYTANWNPLGDSAFYRKYELYSMDWDLKEELRDCLVAAAPYGGPIALLRNPWRKEKAA  
SVRPVLDIYSASGMPLASLLWKSQPVVSLGWSAEEELLCVQEDGAVLVYGLHGDFFRRHFS  
MGNEVLQNRVLDARIFHTEFGSGVAILTGAHRFTLSANVGDLKLRRMPEVPGLQSAPSCW  
TVLCQDRVAHILLAVGPDLYLLDHAACSAVTPPGLAPGVSSFLQMAVSFTYRHLALFTDT  
GYIWMGTASLKEKCEFNCNIRAPPKQMVWCSRPRSKERAVVVAWERRLMVVGDAPESTQ  
FVLDEDSYLVPELDGVRIFSRSTHEFLHEVPAASEEIFKIASMAPGALLLEAQKEYEKES  
QKADEYLREIQELGQLTQAVQQCIEAAGHEHQPDMMQKSLRAASFGKCFDRFPDSFVH  
MCQDLRVLNAVRDYHIGIPLTYSQYKQLTIQVLLDRLVLRRLYPLAIQICEYLRLPEVQG  
VSRILAHWACYKVQKQDVSDVARAINQKLGDTPGVSYSDIAARAYGCGRTELAIKLLE  
YEPRSGEQVPLLLKMKRSKLALSKAIESGDTDLVFTVLLHLKNELNRGDFFMTLRNQPMA  
LSLYRQFCKHQELETLDLYNQDDNHQELGSFHIRASYAAEERIEGRVAALQTAADAFYK  
AKNEFAAKATEDQMRLRLQRLEDELGGQFLDLSLHDTVTTILGGHNKRAEQLARDFR  
IPDKRLWWLKLALADLEDWEELEKFSKSKSPIGYLPFVEICMKQHKNYEAKKYASRVG  
PEQVKALLLVGDVAQAADVAIEHRNEAELSLVLSHCTGATDGATADKIQRARAQAQKK

>sp|Q9UBQ0|VPS29\_HUMAN Vacuolar protein sorting-associated protein 29 OS=Homo sapiens GN=VPS29 PE=1 SV=1

MLVLVLGDLHIPHCNSLPAKFKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVR  
GDFDENLNYPEQKVVTVGQFKIGLIHGQVIPWGDMAALLQRQFDVDILISGHTHKFE  
AFEHENKFYINPGSATGAYNALETNIIPSFVLMDIQASTVVVTVYVQLIGDDVKVERIEYK  
KP



>sp|Q9UID3|VPS51\_HUMAN Vacuolar protein sorting-associated protein 51 homolog OS=Homo sapiens GN=VPS51 PE=1 SV=2

MAAAAAAGSPSGSPGDSPEGPEGEAPERERRKAHGMLKLYYGLSEGEAAGRPAAGPDPLDP  
TDLNGAHFDPEVYLDKLRRECPLAQLMDSETDMVRQIRALDSMQTLVYENYNKFISATD  
TIRKMKNDFRKMEDEMDRLATNMAVITDFSARISATLQDRHERITKLAGVHALLRKLQFL  
FELPSRLTKCVELGAYGQAVRYQGRAQAVLQQYQHLPSFRAIQDDCQVITARLAQQLRQR  
FREGGSGAPEQAECVELLLALGEPAEELCEEFLAHARGRLEKELRNLEAELGPSPPAPDV  
LEFTDHGGSGFVGGLCQVAAAYQELFAAQGPAGAEKLAAFARQLGSRYFALVERRLAQEQ  
GGGDNSSLVRALDRFHRRRLRAPGALLAAAGLADAATEIVERVARERLGHHLQGLRAAFLG  
CLTDVRQALAAPRVAGKEGPGLAELLANVASSILSHIKASLAAVHLFTAKEVSFSNKPYPF  
RGEFCSQGVREGLIVGFVHSMCQTAQSFCDSPGEKGGATPPALLLLSRLCLDYETATIS  
YILTLTDEQFLVQDQFPVTPVSTLCAEARETARRLLTHYVKVQGLVISQMLRKSIVETRDW  
LSTLEPRNVRAVMKRVVEDTTAIDVQVGLLYEEGVRKAQSSDSSKRTFSVYSSSRQQGRY  
APSYTPSAPMDTNLLSNIQKLFSERIDVFSPVEFNKVSVLGTGIKISLKTLLCEVRLRTF  
GRFGLQQVQVDCHFLQLYLWRFVADEELVHLLLDEVVASAALRCPDPVPMEPSVVEVICE  
RG

>sp|Q8N1B4|VPS52\_HUMAN Vacuolar protein sorting-associated protein 52 homolog OS=Homo sapiens GN=VPS52 PE=1 SV=1

MAAAATMAAAARELVLRAGTSDMEEEEGPLAGGPGLQEPLQLGELDITSDEFILDEVVDVH  
IQANLEDELVKEALKTGVDLRHYSKQVELELQQIEQKSIRDYIQESENIASLHNQITACD  
AVLERMEQMLGAFQSDLSSISSEIRTLQEQSGAMNIRLRNRQAVRGKLGLVDGLVPSA  
LVTAILEAPVTEPRFLEQLQELDAKAAVREQEARGTAACADVRLDRLRVKAVTKIRE  
FILQKIYSFRKPMNTNYQIPQTALLKYRFFYQFLLGNERATAKEIRDEYVETLSKIYLSYY  
RSYLGRMLMKVQYEEVAEKDDLGMVEDTAKKGFFSKPSLRSRNTIFTLGRGSVISPTLE  
APILVPHTAQRGEQRYPFALFRSQHYALLDNSCREYLFICEFFVVS GPAAHDLFHAVMG  
RTLSMTLKHLD SYLADCYDAIAVFLCIHIVLRFRNIAAKRDVPALDRYWEQVLALLWPRF  
ELILEMNVQSVRSTDPQRLGGLDTRPHYITRRYAEFSSALVSINQTI PNERTMQLLGQLQ  
VEVENFVLRVAAEFSSRKEQLVFLINNYDMMLGVL MERAADDSKEVESFQQLLNARTQEF  
IEELLSPFPFGLVAFVKEAEALIERGQAERLRGEEARVTQLIRGFGSSWKSSVESLSQDV  
MRSFTNFRNGTSIIQGALTQLIQLYHRFHRVLSQPQLRALPARAELINIHHLMVELKKHK  
PNF

>sp|Q15906|VPS72\_HUMAN Vacuolar protein sorting-associated protein 72 homolog OS=Homo sapiens GN=VPS72 PE=1 SV=1

MSLAGGRAPRKTAGNRLSGLLEAEEDFYQTTYGGFTEESGDDEYQGDQSDTEDEVSD  
FDIDEGDEPSSDGEAEPRRKRVRVTKAYKEPLKSLRPRKVNTPAGSSQKAREEKALLPL  
ELQDDGSDSRKSMRQSTAEHTRQTFLRVQERQGQSRRRKGPHCERPLTQEELLREAKITE  
ELNLRSLETYERLEADKKKQVHKRKC PGPIITYHSVTVPVLPVGEPPKEENV D IEGLDPA  
PSVSALTPHAGTGPVNPPARCSRTFITFSDDATFEWFPPQGRPPKVPVREVCPVTHRPAL  
YRDPVTDIPYATARAFKIIIREAYKKYITAHGLPPTASALGPGPPPPEPLPGSGPRALRQK  
IVIK

>sp|A8MXK1|VSTM5\_HUMAN V-set and transmembrane domain-containing protein 5 OS=Homo sapiens GN=VSTM5 PE=3 SV=1

MRPLPSGRRKTRGISLGLFALCLAAARCLQSQGVSLYIPQATINATVKEDILLSVEYSCH  
GVPTIEWTYSSNWGTQKIVEWKPGTQANISQSHKDRVCTFDNGSIQLFSVGVRDSGYIVI

TVTERLGSSQFGTIVLHVSEILYEDLHFVAVILAFLAAVAVLISLMWVCNKAYKFQRK  
RRHKLKESTTEEIELEDVEC

>sp|P02774|VTDB\_HUMAN Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

MKRVLVLLLAFAFGHALERGRDYEKKNVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQV  
SQLVKEVVSLTEACCAEGADPCYDTRTSALSAKSCESNSFPVHPGTAECCTKEGLERK  
LCMAALKHQPQEFPTYVEPTNDEICEAFRKDPKEYANQFMWEYSTNYGQAPLSLLVSYTK  
SYLSMVGSCCTSASPTVCFLKERLQLKHLSTLTLNVRVCSQYAAAYGEKKSRLSNLIKLA  
QKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCC  
QEKTAAMDVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMKYTFELSRRTHLPEVF  
LSKVLEPTLKSUGECCDVEDSTTCFNAKGPLLKELSSFIDKGQELCADYSENTFTEYKK  
KLAERLKAKLPDATPKELAKLVNKRSDFASNCCSINSPPLYCDSEIDAELKNIL

>sp|Q8N398|VW5B2\_HUMAN von Willebrand factor A domain-containing protein 5B2 OS=Homo sapiens GN=VWA5B2 PE=2 SV=2

MPGLYCPSSWTPLPLTDSWVRACANGPCLSVRARLTYRNPQPQPVGDGVFVYPLAEAEVVS  
GFEEAAGRRVSFQLQSRRRSQAACCRALGPGLGTPTPRCAQGHVLDLAQARSTLVLP  
TGIIAAAGTMTVTLHSSRELPSRPDGVHLVALPTVLTPLAPPGPPGPPRPPGLCDDSGPV  
TLLMLPSSPTSCFGVGSLEEGLAWEELAAPRDVFSGPAPCPAPYTFSEFEMLVTPCLLA  
GLESPPHALRADAPPHASSAATICVTLAEGHHCDRALEILLHPSEPHQPHLMLEGGSLSS  
AEYEARVRARRDFQRLQRRDSDGDRQVWFLQRRFHKDILLNPVLALSFCPDLSSKPGHLG  
TATRELLFLLDSSSVAHKDAIVLAVKSLPPQTLINLAVFGTLVQPLFPESRPCSDDAVQL  
ICESIETLQVPSGPPDVLAALDWAQVGPQHRAYPRLFLTAASPMATTHRTLELMRWH  
RGTARCFSGFLGPTCHQLQLGLSALSARGQAYFLRPGQRLQPMLVQALRKALEPALSDISV  
DWFVPDTEALLTPREIPALYPGDQLGYCSLFRVDGFRSRPPGGQEPGWQSSGGSVFPS  
PEEAPSAASPGEPTGTSEPLGTGTVSAELSSPWAARDSEQSTDALTDPTDPGNPSDT  
AIWRRIFQSSYIREQYVLTHCSASPEPGPGSTGSSSESPGSQGPSPEGSAPLEPPSQGC  
RSLAWGEPAGSRSCPLPAPTPAPFKVGALSTEVLGRQHRAALAGRSLSSPPGRANQVPGR  
PRKPSLGAILDGPSPEPGQQLGQLDDSGNLLSPAPMDWMLMEPPFLFTAVPPSGELAP  
PAVPPQAPRCHVIRGLCGEQPMCWEVGVGLETLWGPDGGSQPPSPPVREAAWDQALHRL  
TAASVVRDNEQLALRGAETTADRGHARRCWLRLALQTSKVSSAPSCFTCPVAVDATTREV  
LPGALQVCSSEPAEPPGTPPASHSHLDAAPLPTVVYSKGLQRGSPAGAWDSQNGNSKRA  
LGDPATPTEGPRRPPRPPCRLSMGRRHKLCSPDPGQANNSEGSDDHDLPLVRLQEAPGS  
FRLDAPFCAAVRISQERLCRASPFVHRASLSPTSASLPWALLGPGVGQGSATASCSPS  
PSSGSEPGQVDSGRGSDTEASEGAEGLGGTDLRGRTWATAVALAWLEHRCAAFADEWEL  
TAAKADCWLRAQHLPDGLDLAALKAAARGLFLLLRHWDQNLQLHLLCYSPANV

>sp|A6NCI4|VWA3A\_HUMAN von Willebrand factor A domain-containing protein 3A OS=Homo sapiens GN=VWA3A PE=2 SV=3

MKKYRKISIGCFAMATQTSHVFHGFQENMFLENHCIRRNTGRDSKKPLKQKNMNGLGQNSD  
NGLLVTHVNQTQDLLRLQGSETQSSDWEDSEDWLSAHSKLCQKLTADLISQGTEVLEEG  
TNVVQKICFSTQIRHFESKSDTIEVYQERIQWL TENS KKAFLIKGARVSILIDVSAI  
SSGPQKEEFQKDLMSLIDEQLSHKEKLFVLSFGTNAGSLWPDPMESASTLQELKLWVKT  
LQPDGGSNLLQALKKIFTLKGDSLVAIMRSCPDQPSIILSDYIQQSTMGRDLIIHFITY  
RCDDQMPPAVLKNLAEAVRGYYHCYSPKMEHYTSRDMDELLAEIQKAQSLLSHVQALQHS  
SPCEALTCTMEEISTEITNGPLISLLPKPPKHDAPLTIEFPNLDKTSAEWLKVNGLKAKK  
LSLYQVLAPNAFSPVEEFVPILQKTVSSSTIEKAMIQFEWHDGTVKNIHVDPPFLYKYQQ

QLSRAMRM YERRIEWLSLASRRIWGTVCEKRVVLLDISATNSMYIIHIQHSLRLLLEEQ  
LSNKDCFNLIAFGSTIESWRPEMVPVSHNNLQSAWRWALNLCRGSRNVL SALRKAVEVD  
FKDKDKHQSQGIYLTFTGGIPDQDMPTLSAYMAEACGGCDLQLNVCLFYVGEPMDDTPPA  
RYASHTDTAAAYKEVTRAAGGRFHWFGDTG IYESDDINSIMSEMEKALNYSQKCAFLMAS  
LKNHSGKVLGSSALPKEKPKTLQRSQPKKLCPPRPTVPLGARMS IKDDPDREKSPPLKS  
LKWRPLSSRVGISPAAAQPTKEGMMELRRKTKSREAETSLLL FYTEKGNDVGSVYKKYPQ  
GRGLRRTSSSIDLPRKDTVCSSEWVAKYGLKKLKEISRCMGPNC THQKSGQRSASAKH  
CSIFPSVEIHGVVRHIQWTPREMEVYIRHLEKVLRRYVQRLQWLLSGSRRLFGTVLESKV  
CILLDTSGSMGPYLQVKTEL VLLIWEQLRKCCDSFNLLSFAESFQSWQDTLVETDAAC  
HEAMQWVTHLQAQGSTSILQALLKAFSFDHLEGLYLLTDGKPD TSCSLVLNEVQKLREKR  
DVKVHTISLNCSDRAAVEFLRKLASFTGGRYHCPVGEDT LSKIHSLLTKG FINEKDPTLP  
PFEGDDL RILAQEITKARSFLWQAQSFQSRLQKKND AEPKVTLS

>sp|Q2TAL6|VWC2\_HUMAN Brorin OS=Homo sapiens GN=VWC2 PE=2 SV=1

MPSSTAMAVGALSSSLVTCCMLVALCSPSIPLEKLAQAPEQPGQEKREHASRDGPGRVN  
ELGRPAREGGSGRDWKS SGRGLAGREPWSKLQAWVSQGGGAKAGDLQVRPRGDTQA  
EALAAAAQDAIGPELAPTPEPPEEYVYPDYRGKGCVD ESGFVYAIG EKFAGPSACPLC  
TEEGPLCAQPECRLHPRCIHVDTSQCCPQCKERKNYCEFRGKTYQTLEEFV VSPCERCR  
CEANGEVLCTVSACPQTECVDPVYEPDQCCPICKNGPNCFAETA VIPAGREVKTDECTIC  
HCTYEEGTWRIERQAMCTRHECRQM

>sp|Q2M389|WASH7\_HUMAN WASH complex subunit SWIP OS=Homo sapiens GN=KIAA1033 PE=1 SV=2

MAVELTSPDWEFDRVDDGSQKIHAEVQLKNYKGFLEEYTSQLRRIEDALDDSIGDVWDFN  
LDPIALKLLPYEQSSLLELIK TENKVLNKVITVYAALCCEIKKLYEATKFYNGLLFYG  
EGATDASMVEGDCQIQMGRFISFLQELSCFVTRCYEVVMNVVHQLAALYISNKIAPKII E  
TTGVHFQTMYEHLGELLTVLLTLDEI IDNHITLKDHW TMYKRLKSVHHNPSKFGIQEEK  
LKPFEKFLKLEGQLLDGMIFQACIEQQFDSLNGGVSVSKNSTFAEEFAHSIRSIFANVE  
AKLGEPSEIDQRDKYVGICGLFVLHFQIFRTIDKKFYKSLLDICKKVPAILTANI I WFP  
DNFLIQKIPAAAKLLDRKSLQAIK IHRDTFLQKKAQSLTKDVQSYVVFVSSWMMKMESIL  
SKEQRMDKFAEDLTNRCNVFIQGLYAYSISTIIKT TMNLYMSMQKPMTKTSVKALCRLV  
ELLKAI EHM FYRRSMV VADSVSHITQHLQH QALHSISVAKKRVISDKKYSEQR LDVLSAL  
VLAENTLNGPSTKQRRLLIVSLALSVGTQMKTFKDEELFPLQVVMKKLDLISELRERVQTQ  
CDCCFLYWHRAVFPIYLD D VYENAVDAARLHYMFSA LRDCVPAMMHARHLESYEILLDCY  
DKEIMEILNEHLLDKLCKEIEKDLRLSVH THLKLDDRNPFKVG MKDLALFFSLNPIRFFN  
RFIDIRAYVTHYLDKTFYNLT TVALHDWATYSEMRNLATQRYGLVMTEAHLPSQTLEQGL  
DVLEIMRNIHIFVSRYLNLNNQIFIERTSNNKHLNTINIRHIAN SIRTHGTGIMNTVN  
FTYQFLKKKFYIFSQFMDEHIKSRLIKDIRFFREIKDQNDHKYPFDRAEKFNRGIRKLG  
VTPEGQSYLDQFRQLISQIGNAMGYVMIRSGGLHCSSNAIRFVPDLEDIVNFEELVKEE  
GLAEETLKAARHLDVLS DHTRNSAEGTEYFKMLVDVFAPEFRRPKNIHLRNFYI IVPPL  
TLNFVEHSISC KEKLNKKNIGAAFTDDGFAMGVAYILKLLDQYREFDSLHWFQSVREKY  
LKEIRAVAKQNVQSASQDEKLLQTMNLTQKRLDVYLQEFELLYFSLSSARIFFRADKTA  
AEENQEKKEKEEETKTSNGDLS DSTV SADPVVK

>sp|P42768|WASP\_HUMAN Wiskott-Aldrich syndrome protein OS=Homo sapiens GN=WAS PE=1 SV=4

MSGGPMGGRPGRGAPAVQQNIPSTLLQDHENQRLFEM LGRKCLTLATAVVQLYLALPPG  
AEHWTKEHCGAVCFVKDNPQKSYFIRLYGLQAGRLLEQELYSQLVYSTPTPFHFTFAGD  
DCQAGLNFADDEAQAFRALVQEKIQKRNQRQSGDRRQLPPPPTPANEERRGGLPPLPLH

PGGDQGGPPVGPLSLGLATVDIQNPDI TSSRYRGLPAPGSPADKKRSGKKKISKADIGA  
PSGFKHVSHVGWDPQNGFDVNNLDPDLRSLFSRAGISEAQLTDAETSKLIYDFIEDQGGL  
EAVRQEMRRQEPLPPPPPSRGGNQLPRPPIVGGNKGRSGPLPPVPLGIAPPPPTPRGPP  
PPGRGGPPPPPPATGRSGPLPPPPPGAGGPPMPPPPPPPPSSGNGPAPPPLPALV  
PAGGLAPGGGRGALLDQIRQGIQLNKTPGAPESSALQPPQSSSEGLVGALMHVMQKRSRA  
IHSSDEGEDQAGDEDEDEWDD

>sp|Q6ICG8|WBP2L\_HUMAN Postacrosomal sheath WW domain-binding protein OS=Homo sapiens  
GN=WBP2NL PE=2 SV=1

MAVNQSH TENRRGALIPNGESLLKRSPNVELSFPQRSEGSNVFSGRKTGTLFLT SYRVIF  
ITSCSISDPMLSFMMPFDLMTNLTVEQPVFAANFIKGTIQAAPYGGWEGQATFKLVFRNG  
DAIEFAQLMVKAASAAARGFPLRLNDWFSSMGIYVITGEGNMCTPQMPCSVIVYGAPPA  
GYGAPPPGYGAPPAGYGAQPVGNEGPPVGYRASPVRYGAPPLGYGAPPAGYGA  
PPLGYGTPPLGYGAPPLGYGAPPAGNEGPPAGYRASGARGPQESTAAQAPENEASLP  
SASSSQVHS

>sp|Q9H6R7|WDCP\_HUMAN WD repeat and coiled-coil-containing protein OS=Homo sapiens  
GN=WDCP PE=1 SV=1

MELGKGKLLRTGLNALHQAVHPIHGLAWTDGNQVVLTDLRLHSGEVKFGDSKVIGQFECV  
CGLSWAPPVADDTPVLLAVQHEKHVTWQLCPSPMESSKWLTSQTCEIRGSLPILPQGCV  
WHPKCAILTVLTAQDVSIFPNVHSDDSQVKADINTQGRIHCACWTQDGLRLVAVGSSLH  
SYIWDSAQKTLHRSSCLVFDVDHVC SITATVDSQVAIATELPLDKICGLNASETFNIP  
PNSKDMTPYALPVIGEVSRMDKEATDSETNSEVSVSSSYLEPLDLTHIHFNQHKSEGNL  
ICLRKKDYL TGTGQDSSHLVLVTFKKAVTMTRKVTIPGILVPDLIAFNLKAHVAVASNT  
CNIILIYSVIPSSVPNIQQIRLENTERPKGICFLTQDQLLILVGKQKLTDTTFLPSSKSD  
QYAISLIVREIMLEEPSITSGESQTTYSTFSAPLNKANRKKLIESLSPDFCHQNKGLLL  
TVNTSSQNGRPGRTLKEIQSPLSSICDGSIALDAEPTQPASLPRHSSTPDHTSTLEPP  
RLPQRKNLQSEKETYQLSKEVEILSRNLVEMQRCLSEL TNRLHNGKKSSSVYPLSQDLPY  
VHI IYQKPYLGPVVEKRAVLLCDGKRLRLSTVQQTFGLSLIEMLHDSHWILLSADSEGF I  
PLTFTATQEI IIRDGSLSRSDVFRDSFSHSPGAVSSSLKVFTGLAAPSLDTTGCCNHVDGM  
A

>sp|Q6ZS81|WDFY4\_HUMAN WD repeat- and FYVE domain-containing protein 4 OS=Homo sapiens  
GN=WDFY4 PE=1 SV=3

MEAE LSKAEDRNEDPGSKNEGQLAAVQPDVPHGGQSSSPTALWMLERKFLEYQQLTHK  
SPIERQKSLLSLLPLFLKAWHSVGII CFPSLQRLAEDVSDQLAQQQLKALVGKPAEQAR  
LAAGQLLWWKGDVDQDGYLLLSVYVLTGTDSETLGRVAESGLPALLLQCLYLFFVFPLD  
KDELLESDLQVQKMFVQMLLNICSDSQGLELLSGSELQSLLIATTCLEHSCCFWKEPT  
FCVLR AISKANLSIIQYLQATDCVRLSLQNL SRLTDTLPAP EVSEAVSLILGFVKDSYP  
VSSALFLEFENSEGYPLLLKVLLRYDGLTQSEVDPHLEELLGLV VWLTTCGRSELKV FDS  
ITYPQLEGFKFHHEASGVTVKNLQAFQVLQNVFHKASDSVLCIQVLSVIRTMWAWNARNF  
FLEWTLQPI SQVEIMPLKPAPVQE HFFQLLEALVFELHYVPHEILRKVQHLIKESPGP  
SCTLMALQSILSIAGGDPLFTDIFRDSGLLGLLLAQLRKQAKIMRKSGNKVSTPGVQDPE  
RELTCVMLRIVVTLLKGSVRNAVVLKDHGMVPFIKIFLDDECYREASLSILEQLSAINAE  
EYMSIIVGALCSSTQGELQLKLDLLKSLLRILVTPKGRAAFRVSSGFNGLLSLLSDLEGS  
LQEPLQAWGAVSPRQTELVLYTLCAVSAALHWDVPNGYFFRRNGLFEKLAEDLCLLGC  
FGALEEEGNLLRSWVDTKARPFADLLGTAFSSSGSLPPRIQSCLQILGFLDSMASGTLHL

RGDLKESLRTKQGPVVDVQKGETGSDPQRNFKQWPDLEERMDEGDAAIMHPGVVCIMVRL  
LPRLYHEDHPQLSEEIQCSLASHIQSLVKSEKNRQVMCEAGLLGTLMASCHRALVTSGSP  
LHSRLIRIFEKLASQAIEPDVLRQFLGLGIPSSLATTKILDSSHTRGNPGCSGSQTAQ  
GLAEGPWPAAPDAGLHPGVTQAPQPLGESQDSTTALQTALSLISMTSPRNLQPQRAALAP  
SFVEFDMSVEGYGCLFIPTLSTVMGTSTEYSVSGGIGTGATRPFPFPGGLTFSCWFLISR  
HGAATEGHPLRFLTLVRHLARTEQPFVCFVSLSLCPDDLVLVSTEEKEFQPLDVMEPEDD  
SEPSAGCQLQVRCGQLLACGQWHHLAVVVTKEMKRHCTVSTCLDGQVIGSAKMLYIQALP  
GPFLSMDPSAFVDVYGYIATPRVWKQKSSLIWRLGPTYLFEEAISMETLEVINKLGPRYC  
GNFQAVHVQGEDLDSEATPFVAEERVSFGLHIASSSITSVADIRNAYNEVDSRLIAKEMN  
ISSRDNAMPVFLLRNCAGHLSGSLRTIGAVAVGQLGVRVVFHSSPAASSLDFIGGPAILLG  
LISLATDDHTMYAAVKVLHSVLTSNAMCDFLMQHICGYQIMAFLLRKKASLLNHRIFQLI  
LSVAGTVELGFRSSAITNTGVFQHILCNFELWMNTADNLELSLFSHLEILQSPREGPRN  
AEAHAQAQLIPKLIFLFNEPSLIPSKISTIIGILACQLRGHFSTQDLLRIGLFVVYTLKP  
SSVNERQICMDGALDPSLPAGSQTSKGTIWLNRQLLEMLLSVISSPQLHLSSESKEEMFL  
KLGPDWFLLLLQGHLLHASTTVLALKLLLYFLASPSLRTRFRDGLCAGSWVERSTEGVDIV  
MDNLKSQSPLPEQSPCLLPGRVFLNDFLAHHVHIPEVYLIVSTFFLQTPLTELMGPKDS  
LDAMLQWLLQRHHQEEVLQAGLCTEGALLLEMLKATMSQPLAGSEDGAWAQTFPASVLQ  
FLSLVHRTYPQDPAWRAPEFLQTLAIAAFPLGAQKGVGAESTRNTSSPEAAAEGDSTVEG  
LQAPTKAHPARRKLREFTQLLLRELLLGASSPKQWLPLEVLEASPDHATSQQKRDFQSE  
VLLSAMELFHMTSGGDAAMFRDGKEPQPSAEAAAAPSLANISCFTQKLVEKLYSGMFSAD  
PRHILLFILEHIMVVIETASSQRDTVLSLYSSLNKVILYCLSKPQQLSECLGLLSILG  
FLQEHWDVVFATYNSNISFLLCLMHCLLLLNERSYPEGFGLEPKPRMSTYHQVFLSPNED  
VKEKREDLPSLSDVQHNIQKTQTLWQQLVAQRQQTLEDAFKIDLSVKPGEREVKIEEVT  
PLWEETMLKAWQHYLASEKKSLASRSNVAHHSKVTLWSGSLSSAMKLMGRQAKDPECKT  
EDFVSCIENYRRRGELYASLYKDHVQRRKCGNIKAANAWARIQEQLFGELGLWSQGEET  
KPCSPWELDWREGPARMRKRIKRLSPLEALSSGRHKESQDKNDHISQTNAENQDELTLRE  
AEGEPDEVGVDCTQLTFFPALHESLHSEDFLELCRERQVILQELLDKEKVTQKFSLVIVQ  
GHLVSEGVLLFGHQHFYICENFTLSPTGDVYCTRHLCSNISDPFIFNLCSKDRSTDHYS  
QCHSYADMRELQRARFLQDIALEIFFHNGYSKFLVFYNNDRSKAFKSFCSFQPSLKGKA  
TSEDTLSLRRYPGSDRIMLQKWQKRDISNFEYLMYLNAAAGRTCNDYMQYPVFPWVLADY  
TSETLNLANPKIFRDLSPKMGATKTKERKLKFIQRKFEVEKTEGDMTVQCHYYTHYSSAI  
VASYLVRMPPTQAFALQGGSFVDADRMFHSVKSTWESASRENMSDVRELTP EFFYLPE  
FLTNCNGVEFGCMQDGTVLGDVQLPPWADGDPRKFISLHRKALESDFVSANLHHWIDLIF  
GYKQQGPAAVDAVNIFHPYFYGDRMDLSSITDPLIKSTILGFVSNFGQVPKQLFTKPHPA  
RTAAGKPLPGKDVSTPVSPLPGHPQPFYSLQSLRPSQVTVKMYLFSLGSESPKGAIGHI  
VSTEKTILAVERNKVLLPPLWNRTFSWGFDDFSCCLGSYGSDKVLMTFENLAAWGRCLCA  
VCPSPTTIVTSGTSTVVCVWELSMKGRPRGLRLRQALYGHTQAVTCLAASVTFSLLVSG  
SQDCTCILWDLHLTHVTRLPAHREGISAITISDVSGTIVSCAGHLSLWNVNGQPLASI  
TTAWGPEGAITCCCLMEGPAWDTSQIIITGSQDGMVRVWKTEDVKMSVPGRPAGEEPPAQ  
PPSPRGHKWEKNLALSRELDVSIALTGKPSKTSPAVALAVSRNHTKLLVGDERGRIFCW  
SADG

>sp|Q5JSH3|WDR44\_HUMAN WD repeat-containing protein 44 OS=Homo sapiens GN=WDR44 PE=1 SV=1  
MASEDTEEFYDAPEDVHLGGGYPVGSPGKVGSLSTFKETENTAYKVGNESPVQELKQDVS  
KKIIESIEESQKVLQLEDDSLDSKGKELSDQATASPIVARTDLSNIPGLLAIDQVLPEE

SQKAESQNTFEETELELKKCFPSDETCEKPVDETTKLQTSSTEQLNVLETETEVLNKEA  
VEVKGGGDVLEPVSSDSLSTKDFAAVEEVAPAKPPRHLTPEPDIVASTKKVPARPPPT  
NFPPRPPPSRPAPPPRKRKSELEFETLKTPDIDVPKENITSDSLLTASMASESTVKDS  
QPSLDLASATSGDKIVTAQENGKAPDGGTVAGEVMGQPRPRSNSGRELDEEILASVMIK  
NLDTGEEIPLSLAEEKLPTGINPLTLHIMRRTKEYVSNDAQSDDEEKLQSQPTD TDGGR  
LKQKTTQLKKFLGKSVKRAKHLAEEYGERAINKVKSVRDEVFHTDQDDPSSSDDEGMPYT  
RPVKFKAAGHFGKGPYDFDQIKVVQDLSGEHMGAVWTMKFSHCGRLLASAGQDNVRIWAL  
KNAFDYFNMRMKYNTTEGRVSPSPSQESLSSSKSDTDGVCSTDEDPDKNAPFRQRPF  
CKYKGTADLLDLSWSKNYFLLSSSMKTVRLWHISRRECLCCFQHIDFVTAIAFHPRDD  
RYFLSGSLDGKLRNLWNIPDKKVALWNEVDGQTKLITAAFCQNGKYAVIGTYDGRCIFYD  
TEHLKYHTQIHVRSTRGRNKVGRKITGIEPLPGENKILVTSNDSRIRLYDLRDLSLSMKY  
KGYVNSSSQIKASFHDFTYLVSGSEDKYVYIWSYHDLKFTSVRRDRNDFWEGIKAHN  
AVVTS AIFAPNPSMLSLDVQSEKSEGNEKSEDAEVLDATPSGIMKTDNTEVLLSADFTG  
AIKVFVNKRKNVS

>sp|Q8IV35|WDR49\_HUMAN WD repeat-containing protein 49 OS=Homo sapiens GN=WDR49 PE=2 SV=1

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HSASVIAVQFFVERKQLFSFSKDKVLRLLWDIQHQLSIQRIACSFPSQDFRCLFHFDEAH  
GRLFISFNQLALLAMKSEASKRVKSHEKAVTCVLYNSILKQVISSDTGSTVSFWMIDTG  
QKIKQFTGCHGNAEISTMALDANETRLLTGSTDGTVKIWDFNGYCHHTLNVGQDGAVDIS  
QILILKKKILVTGWERAITVFRPQNFNQFFIQPEEWKGGIQHDDILCAAFLPPQTLVTG  
SYDGEIVLWNNSTENAHVHLHPDYQRLKSKLDTKPQKLLSAGRSQPSHPMADHSTTGVR  
NFEIDTEGKNAVMRLCFLKARKNTAVTGGANLVSCGGSGYVRFWDIYKKQLLAEFLAHSG  
VGSIIMSTDKMNRYLTTGDLGWLKIWNIEEYCLNSSKNKITKAPTILRSFQPHEDRISS  
LEMCEPGGQLLISSSADCSICVTGVCNAPVWIFGQAKHWHIENCLFLPKRDTNLVESEI  
QKEISLFSKEESCLDPTHESSLNKKNKDDSTYNVRPSEDINLDIKYKERSTCMKETQKPY  
YGEVIKKSFTSRSLNIGALEELPEVNKPAFLLDPEKYFRKEPEEERPQILEAPSLFKTL  
KAVFDEKNLFPKEILHHERKAKQLCQEKSCFEVKKKK

>sp|Q9H977|WDR54\_HUMAN WD repeat-containing protein 54 OS=Homo sapiens GN=WDR54 PE=1 SV=1

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AKEGAGVSPPLITQVHVCVLPFRVLLVLTSHRGIQMYESNGYTMVYWHALDSGDASPVQA  
VFARGIAASGHFICVGTWSGRVLVFDIPAKGPNIVLSEELAGHQMPITDIATEPAQGQDC  
VADMTADDGSLLCVWRSGPEFTLLTRIPGFGVPCPSVLWQGI AAGYGNGQVHLYEAT  
TGNLHVQINAHARAICALDLASEVGKLLSAGEDTFVHIWKL SRNPESGYIEVEHCHGECV  
ADTQLCGARFCDSSGNSFAVTGYDLAEIRRFSSV

>sp|Q9GZS3|WDR61\_HUMAN WD repeat-containing protein 61 OS=Homo sapiens GN=WDR61 PE=1 SV=1

MTNQYGI LFKQEQAHDIAIWSVAWGNTKKENSETVVTGSLDDLKVKWWRDERLDLQWSL  
EGHQLGVVSVDISHTLPIAASSSLDAHIRLWDLENGKQIKSIDAGPVDATLAFSPDSQY  
LATGTHVGKVNIFGVESGKKEYSLDRGKFI LSIA YSPDGKYLASGAIDGIINIFDIATG  
KLLHTLEGHAMPIRSLTFSPDSQLLV TASDDGYIKIYDVQHANLAGTLSGHASWVLNVAF  
CPDDTHFVSSSSDKSVKVDVGTRTCVHTFFDHQDQVWGVKYNGNGSKIVSVGDDQEIH  
YDCPI

>sp|Q9BRX9|WDR83\_HUMAN WD repeat domain-containing protein 83 OS=Homo sapiens GN=WDR83  
PE=1 SV=1

MAFPEPKRPPELPQKRLKTLDCGQGAVRAVRFNVDGNYCLTCGSDKTLKLWNPLRGTL

RTYSGHGYEVLDAAGSFDNSSLCSGGGDKAVVLWDVASGQVVRKFRGHAGKVNTVQFNEE  
ATVILSGSIDSSIRCWDCRSRRPEPVQTLDEARDGVSSVKVSDHEILAGSVDGRVRRYDL  
RMGQLFSDYVVGSPITCTCFSRDGQCTLVSSLDSTLRLLDKDTGELLGEYKGHKNQEYKLD  
CCLSERDTHVVSCESDGKVFFWDLVEGALALALPVGSGVVQSLAYHPTEPCLLTAMGGSV  
QCWREEAYEAEDGAG

>sp|Q6ZMY6|WDR88\_HUMAN WD repeat-containing protein 88 OS=Homo sapiens GN=WDR88 PE=2 SV=2  
MASPPRCSPTAHDRECKLPPPSAPASEYCPGKLSWGTMARALGRFKLSIPHTHLLATLDP  
LALDREPPPHLLPEKHQVPEKLIWGDQDPLSKIPFKILSGHEHAVSTCHFCVDDTKLLSG  
SYDCTVKLWDPVDGSVVRDFEHRPKAPVVECSITGDSSRVIAASYDKTVRAWDLTGKLL  
WKVRYDTFIVSCKFSPDGKYVVSFGFDVDHGCIMDAENITTVSVIKDHHTRSITSCCFDP  
DSQRVASVSLDRCIKIWDVTSQATLLTITKAHSNAISNCCFTFSGHFLCTSSWDKNLKIW  
NVHTGEFRNCGACVTLMQGHEGSVSSCHFARDSSFLISGGFDRTVAIWDVAEGYRKLCLK  
GHNDWVMDVAISNNKKWILSASKDRTMRLWNIEEIDEIPLVIKYKKAVGLKLKQCERCDCR  
PFSIFKSDTSSEMFTQCVCFRIDTRGLPADTSSSSSSSERENSPPPRGSKDD

>sp|Q6P2C0|WDR93\_HUMAN WD repeat-containing protein 93 OS=Homo sapiens GN=WDR93 PE=2 SV=1  
MSFPRGSQTQKIKHPIGTRKGPLEVPPPTTEKDWPKDDEQDHVLVDPDEELDSLPPYRMI  
NKLVLNLLFDQSWEIIEERNALREAESSQIQPTVYPPLGEIQLNKMPCMAVSQDYVFIGG  
AKGFSIYNLYSAKQIYAWEKLVVDVTSIWATDLGNEILIPVDEMGIIRLFYFYKEGLYL  
VKAINVEDDTSKQTTICKMEISQGGDFAAFLLQGAGDIWLDVYKLPKETWLKKLEHPQLT  
SNPKKKVRQPQLNSLGPISADPLEMDANVSFKGDIKLSLPVYIMKIKPPKPVGTGTFKSP  
LEVFAKIKDCYGLSGQNHFIDKSQWEQQAEIFNASYKKYLDREWEEEPSTATFYFLLP  
SCLFAMPPEVKGPSMACVLGIHWTRSHNFFLYSLNRTLKDKADPEGVWPCAAPIAVSQL  
SCSSSYLVLACEDGVLTLWDLAKGFPLGVAALPQGCFQSIHFLKYFSVHKGQNMYPEGQ  
VKSQMKCVVLCTDASLHLVEASGTQGPTISVLVERPVKHLDKTICAVAPVPALPGMVLIF  
SKNGSVCLMDVAKREIICAFAPPGAFPLEVPWKPVFAVSPDHPCFLLRGDYSHETASTDD  
AGIQYSVFYFNFEACPLENISKNTIPQRDLNMAFPQALPLEKRCERFLQKSYRKLEK  
NPEKEEEHWARLQRYSLSLQRENFKK

>sp|Q14508|WFDC2\_HUMAN WAP four-disulfide core domain protein 2 OS=Homo sapiens GN=WFDC2  
PE=1 SV=2  
MPACRLGPLAAALLLSLLLFGFTLVSGTGAECTGVCPELQADQNCTQECVSDSECADNLK  
CCSAGCATFCSLPNDKEGSCPQVNINFPQLGLCRDQCQVDSQCPGQMKCCRNGCGKVSCV  
TPNF

>sp|P23763|VAMP1\_HUMAN Vesicle-associated membrane protein 1 OS=Homo sapiens GN=VAMP1  
PE=1 SV=1  
MSAPAQPPAEGTEGTAPGGGPPGPPNMTSNRRLQQTQAQVEEVVDIIRVNVDKVLERDQ  
KLSELDDRADALQAGASQFESSAAKLKRKYWWKNCKMMIMLGAICAIIVVVIVYFFT

>sp|Q15836|VAMP3\_HUMAN Vesicle-associated membrane protein 3 OS=Homo sapiens GN=VAMP3  
PE=1 SV=3  
MSTGPTAATGSNRRLQQTQNVDEVDIMRVNVDKVLERDQKLSELDDRADALQAGASQF  
ETSAAKLKRKYWWKNCKMWAIGITVLVIFIIIIIVVWVSS

>sp|O95183|VAMP5\_HUMAN Vesicle-associated membrane protein 5 OS=Homo sapiens GN=VAMP5  
PE=1 SV=1  
MAGIELERCQQQANEVTEIMRNNGKVLERGKLAELQQRSDQLLMSSTFNKTTQNLAQ  
KKCWENIRYRICVGLVVVGVLIIILIVLLVFLPQSSDSSAPRTQDAGIASGPGN

>sp|P51809|VAMP7\_HUMAN Vesicle-associated membrane protein 7 OS=Homo sapiens GN=VAMP7  
PE=1 SV=3

MAILFAVVARGTTILAKHAWCGGNFLEVTEQILAKIPSENNKLTYSHGNYLFHYICQDRI  
VYLCITDDDFERSRAFNFLEIKKRFQTTYGSRAQTALPYAMNSEFSSVLAAQLKHSEN  
KGLDKVMETQAQVDELKGIMVRNIDLVAQRGERLELLIDKTENLVDSSVTFKTTSRNLAR  
AMCMKNLKLTIIIIVSIVFIYIIVSPLCGGFTWPSCVKK

>sp|Q9BV40|VAMP8\_HUMAN Vesicle-associated membrane protein 8 OS=Homo sapiens GN=VAMP8  
PE=1 SV=1

MEEASEGGGNDVRNLQSEVEGVKNIMTQNVERILARGENLEHLRNKTEDLEATSEHFKT  
TSQKVARKFWWKNVKMIVLICVIVFIIILFIVLFATGAFS

>sp|Q5SQQ9|VAX1\_HUMAN Ventral anterior homeobox 1 OS=Homo sapiens GN=VAX1 PE=1 SV=1

MFGKPKDKMDVRCHSDAEARVSKNAHKESRESKGAEGNLPA AFLKEPQGAFSASGAAEDC  
NKSXSNSAADPDYCRRLVVRDAKGSIREIILPKGLDLDRPKRTRTSFTAELRLEMEFQ  
RCQYVVGRETELARQLNLSETQVKVWFQNRRTKQKDKQKDSSELSVSVSETAATCSVLR  
LLEQGRLLSPPGLPALLPPCATGALGSALRGPSLPALGAGAAAGSAAAAAAGPAGAA  
SPHPPAVGGAPGPGPAGPGLHAGAPAAGHSLFSLPVPSLLGSVASRLSSAPLTMAGSLA  
GNLQELSARYLSSSAFEPYSRTNNKEGAEEKALD

>sp|P19320|VCAM1\_HUMAN Vascular cell adhesion protein 1 OS=Homo sapiens GN=VCAM1 PE=1  
SV=1

MPGKMVILGASNILWIMFAASQAFKIETTPESRYLAQIGDSVSLTCSTTGCESPFFSWR  
TQIDSPLNGKVTNEGTTSTLTMPVSVFSGNEHSYLCTATCESRKLEKGIQVEIYSFPKDPE  
IHLSGPLEAGKPITVKCSADVVPFDRLEIDLLKGDHLMKSQEFLEADRKSLETKSLEV  
TFTPVIEDIGKVLVCRAKLHIDEMDSVPTVRQAVKELQVYISPKNTVISVNPSTKLQEGG  
SVTMTCSSEGLPAPEIFWSKKLDNGNLQHLSGNATLTLIAMRMEDSGIYVCEGVNLIGKN  
RKEVELIVQEKPFTVEISPGPRIAAQIGDSVMLTCSVMGCESPSFSWRTQIDSPLSGKVR  
SEGNTSTLTSPVSFENEHSYLCTVTCGHKKLEKGIQVELYSFPRDPEIEMSGGLVNGSS  
VTVSCKVPSVYPLDRLEIELLKGETILENIEFLEDTDMKSLENKSLEMTFIPTIEDTGKA  
LVCQAKLHIDMEFEPKQRQSTQTLVYVNAVPRDITVLVSPSSILEEGSSVNMTCLSQGFP  
APKILWSRQLPNEGELQPLSENATLTLISTKMEDSGVYLCEGINQAGRSRKEVELIIQVTP  
KDIKLTAFPSSESVKEGDTVIIISCTCGNVPETWIIILKKAETGDTVLSIDGAYTIRKAQL  
KDAGVYECESKNKVGSQLRSLTLDVQGRENNKDYFPELLVLYFASSLIIPAIGMIYFA  
RKANMKGSYSLVEAQKSKV

>sp|Q96JH7|VCIP1\_HUMAN Deubiquitinating protein VCIP135 OS=Homo sapiens GN=VCIP1 PE=1  
SV=2

MSQPPPPPPPLPPPPPPPEAPQTPSSLASAAASGGLLKRRDRILSGSCPDPKCQARLFF  
PASGSVSIECTECGRHEQQQLLGVEEVDTPDVVLHNLRLNALLGVTGAPKKNTLVKVM  
GLSNYHCKLLSPILARYGMDKQTGRAKLLRDMNQGELFDCALLGDRAFLIEPEHVNTVGY  
GKDRSGSLLYLHDTLEDIKRANKSQECLIPVHVDGDGHCLVHAVSRALVGRELFWHALRE  
NLKQHFQQHLARYQALFHDFIDAAEWEDIINECDPLFVPPGVPGLRNIHIFGLANVLH  
RPIILLDSLGRMRSSGDYSATFLPGLIPAECTGKDGHLNKPICIAWSSSGRNHYIPLVG  
IKGAALPKLPMNLLPKAWGVPQDLIKKYIKLEEDGGCVIGGDRSLQDKYLLRLVAAMEEV  
FMDKHGIHPSLADVHQYFYRRRTGVIGVQPEEVTAAAKKAVMDNRLHKCLLCGALSELHV  
PPEWLPAGGKLYNLAKSTHGQLRTDKNYSFPLNNLVCSYDSVKDVLVPDYGMSNLTACNW  
CHGTSVRKVRGDSIVYLDGDRNTSRSTGGKCGCGFKHFDGKEYDNLPEAFPTILEWGG



RVVRETVYWFQYESDSSLNSNVYDVAMKLVTKHFPGEFGSEILVQKVVHTILHQTAKKNP  
DDYTPVNIDGAHAQRVGDVQGGQSESQLPTKIILTGQKTKLHKEELNMSKTERTIQQNI  
TEQASVMQKRKTEKLKQEQKGQPRTVSPSTIRDGPSSAPATPTKAPYSPTTSKEKKIRIT  
TNDGRQSMVTLKSSSTTFELQESIAREFNIPPYLQCIRYGFPPKELMPPQAGMEKEPVPL  
QHGDRIITIEILKSKAEGGQSAAAHSAHTVKQEDIAVTGKLSSKELQEQAEMYSLCLLA  
TLMGEDVWSYAKGLPHMFQQGGVFYSIMKKTGMADGKHCTFPHLPGKTFVYNASEDRLE  
LCVDAAGHFPIGPDVEDLVKEAVSQVRAEATTRSRESSPSHLLKLGGGVVKKKSEQLH  
NVTAFQKGHSLGTASGNPHLDPRARETSVVRKHNTGTDFSNSSTKTEPSVFTASSNSE  
LIRIAPGVVTRMDGRQLDPLVEAQRKKLQEMVSSIQASMDRHLRDQSTEQSPSDLPQRK  
TEVVSSSAKSGSLQTGLPESFPLTGGTENLNTETTDGCVADALGAFASTRSKAQRGNSVE  
ELEEMDSQDAEMTNTTEPMDHS

>sp|Q9H321|VCX3B\_HUMAN Variable charge X-linked protein 3B OS=Homo sapiens GN=VCX3B PE=2  
SV=4

MSPKPRASGPPAKAKEAGKRKSSSQSPSPDPKKKTTKVAKKGAVRRGRRGKGAATKMA  
AVTAPEAESGPAAPGPSDQPSQELPQHELPEEPVSEGTQHDPLSQESELEEPLSQESEV  
EEPLSQESQVEEPLSQESEVEEPLSQESQVEEPLSQESEVEEPLSQESEVEEPLSQESQV  
EEPLSQESEVEEPLSQESQVEEPLSQESEMEEPLSQESQVEEPLSQESEMEEPLSQESEM  
EELPSV

>sp|P45880|VDAC2\_HUMAN Voltage-dependent anion-selective channel protein 2 OS=Homo  
sapiens GN=VDAC2 PE=1 SV=2

MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGLVKLDVTKSCSGVEFSTSGSSNT  
DTGKVTGTLETKYKWCEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFTDFTSPNTGK  
KSGKIKSSYKRECINLGCVDVDFAGPAIHGSAVFGYEGWLAGYQMTFDSA KSKLTRNNF  
AVGYRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDSVNLAWTSGTNCTRFGIAAKYQLDP  
TASISAKVNNSSLIGVGYTQTLRPGVKLTLSALVDGK SINAGGHKVGLALELEA

>sp|O43915|VEGFD\_HUMAN Vascular endothelial growth factor D OS=Homo sapiens GN=VEGFD PE=1  
SV=1

MYREWVVNVFMMLYVQLVQGSSNEHGPVKRSSQSTLERSEQQIRAASSLEELLRITHSE  
DWKLWRCRLRLKSFTSMDSRSASHRSTRFAATFYDIETLKVIDEEWQRTQCSPRETCVEV  
ASELGKSTNTFFKPPCVNVFRCGCCNEESLICMNTSTSYISKQLFEISVPLTSVPPELVP  
VKVANHTGCKCLPTAPRHPYSIIRRSIQIPEEDRCSHKKLCPIDMLWDSNKCKCVLQEE  
NPLAGTEDHSHLQEPALCGPHMMFDEDRCECVCKTPCPKDLIQHPKNCSCFECKESLETC  
CQKHKLFPDTCSCEDRCPFHTRPCASGKTACAKHCRFPKEKRAAQGPHSRKNP

>sp|P35916|VGFR3\_HUMAN Vascular endothelial growth factor receptor 3 OS=Homo sapiens  
GN=FLT4 PE=1 SV=3

MQRGAALCLRLWLCLGLLDGLVSGYSMTPTLNTITEESHVIDTGDSLISCRGQHPLEWA  
WPGAQEAPATGDKDSEDGTGVVRDCEGTDARPYCKVLLLHEVHANDTGSYVCYYKIKARI  
EGTTAASSYVVRDFEQPFINKPDTLLVNRKDAMWVCLVSIPLNVTLSQSSVLWPDG  
QEVVWDDRRGMLVSTPLLDALYLQCETTWGDQDFLSNPFLVHITGNELYDIQLLPRKSL  
ELLVGEKLVLNCTVWAEFNSGVTFDWDYPGKQAERGKWPERRSQQTHTELSSILTIHNV  
SQHDLGSYVCKANNGIQRFRESTEVI VHENPFISVEWLKGP ILEATAGDELVKLPVKLAA  
YPPPEFQWKDGKALSGRHSPHALVLKEVTEASTGTYTLALWNSAAGLRRNISLELVNV  
PPQIHEKEASSPSIYSRHSRQALTCTAYGVPLPLSIQWHWRPWPCKMFAQRSLRRRQQQ  
DLMPQCRDWRAVTTQDAVNPIESLDTWTEFVEGKNKTVSKLVIQANVNSAMYKCVVSNKV

GQDERLIYFYVTTIPDGFTIESKPSEELLEGGQPVLLSCQADSYKYEHLRWYRLNLSTLHD  
AHGNPLLLDCKNVHLFATPLAASLEEVAPGARHATLSLSIPRVAPEHEGHYVCEVQDRRS  
HDKHCHKKYL SVQALEAPRLTQNLTDLLVNVSDSLEMQLVAGAHAPSIVWYKDERLLEE  
KSGVDLADSNQKLSIQRVREEDAGRYLCSVCNAKGCVNSSASVAVEGSEDKGSMEIVILV  
GTGVI AVFFWVLLLLIFCNMRRPAHADIKTGYSIIMDPGEVPLEEQCEYLSYDASQWEF  
PRERLHLGRVLGYGAFGKVVEASAFGIHKGSSCDTVAVKMLKEGATASEHRALMSELKIL  
IHIGNHLNVNLLGACTKPGPLMVIVEFCKYGNLSNFLAKRDAFSPCAEKSPEQRGRF  
RAMVELARLDRRRPGSSDRVLFARFSKTEGGARRASPDQEAEDLWLSPLTMEDLVCYSFQ  
VARGMEFLASRKCIHRDLAARNILLSSESDVVKICDFGLARDIYKDPDYVRKGSARLPLKW  
MAPESIFDKVYTTQSDVWSFGVLLWEIFSLGASPYPGVQINEEFCQRLRDGTRMRAPELA  
TPAIRRIMLNCWSDPKARPAFSELVEILGDLLQGRGLQEEEEVCMAPRSSQSSEEGSFS  
QVSTMALHIAQADAEDSPPSLQRHSLAARYYNWVSFPGCLARGAETRGSRRMKTFEFFPM  
TPTTYKGSVDNQTDGSMVLASEEFEQIESRHRQESGFCKGPGQNVAVTRAHPDSQGRRR  
RPERGARGGQVFYNSEYGELSEPSEEDHCSPSARVTFFTDNSY

>sp|Q00341|VIGLN\_HUMAN Vigilin OS=Homo sapiens GN=HDLBP PE=1 SV=2

MSSVAVL TQESFAEHRSGLV PQQIKVATLNSEESDPPTYKDAFPPLPEKAACLESAQEP  
SGAWGNKIRPIKASVITQVFHVPLEERKYKDMNQFGEGEQAKICLEIMQRTGAHLELSLA  
KDQGLSIMVSGKLDV MKARKDIVARLQTQASATVAIPKEHHRFVIGKNGEKLQDLELKT  
ATKIQIPRPDDPSNQIKITGTKEGIEKARHEVLLISAEQDKRAVERLEVEKAFHPFIAGP  
YNRLVGEIMQETGTRINIPPSVNRTEIVFTGEKEQLAQAVARIKKIYEEKKKKTTTIAV  
EVKKSQHKYVIGPKGNSLQEILERTGVSVEIPPSDSISETVILRGEPEKLGQALTEVYAK  
ANSFTVSSVAAPSWLHRFIIGKKGQNLAKITQMPKVHIEFTEGEDKITLEGPTEDVNVA  
QEQIEGMVKDLINRMDYVEINIDHKFHRHLIGKSGANINRIKDQYKVSVRIPDSEKSNL  
IRIEGDPQGVQAKRELLELASRMENERTKDLIIIEQRFHRTIIGQKGERIREIRDKFPEV  
IINFPDPAQKSDIVQLRGPKNEVEKCTKYMQKMVADLVENSYSISVPIFKQFHKNIIIGKG  
GANIKKIREESNTKIDLPAENSNETIIITGKRANCEAARSRIISIQLDLANIAEVEVSI  
PAKLHNSLIGTKGRLIRSIMEECGGVHIFHPVEGSGSDTVVIRGPSSDVEKAKKQLHLA  
EEKQTKSFTVDIRAKPEYHKFLIGKGGGKIRKVRDSTGARVIFPAAEDKDQDLITIIIGKE  
DAVREAQKELEALIQNLDNVEDSMLVDPKHHRHFVIRRGQVLREIAEEYGGVMVSFPRS  
GTQSDKVTLKGAKDCVEAAKKRIQEIIEDLEAQVTLECAIPQKFHR SVMGPKGSRIQQIT  
RDFSVQIKFPDREENAVHSTEPVQENGDEAGEGREAKDCDPGSPRRCDIIISGRKEKC  
EAAKEALEALVPVTIEVEVPFDLHRYVIGQKGSIRKMMDEFVNIHVPAPELQSDIIAI  
TGLAANLDRAKAGLLERVKELQAEQEDRALRSFKLSVTVDPKYHPKIIGRKGAVITQIRL  
EHDVNIQFPDKDDGNQPQDQITITGYEKNTEAARDAILRIVGELEQMVSEDVPLDHRVHA  
RIIGARGKAIRKIMDEFKVDIRFPQSGAPDPNCVTVTGLPENVEEAIDHILNLEEEYLAD  
VVDSEALQVYMKPPAHEEAKAPSRGFVVRDAPWTASSEKAPDMSSEEFPSFGAQVAPK  
TLPWGPKR

>sp|P08670|VIME\_HUMAN Vimentin OS=Homo sapiens GN=VIM PE=1 SV=4

MSTRSVSSSSYRRMFGGPGTASRPSSRSYVTTSTRTYSLG SALRPSTSRSLYASSPGGV  
YATRSSAVRLRSSVPGVRLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDK  
VRFLEQQNKILLAELEQLKGQGSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAE  
DIMRLREKLQEEMLQREEAENTLQSFRQDV DNASLARLDLERKVESLQEEIAFLKKLHEE  
EIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSE  
AANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQD

TIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLEGEESRISLPLPNFSS  
LNLRETNLDSLPLVDTHSKRTLLIKTVETRDGQVINETSQHDDLE

>sp|Q3ZAQ7|VMA21\_HUMAN Vacuolar ATPase assembly integral membrane protein VMA21 OS=Homo sapiens GN=VMA21 PE=1 SV=1

MERPDKAALNALQPPEFRNESSLASTLKTLFF TALMITVPIGLYFTTKSYIFEGALGMS  
NRDSYFYAAIVAVVAVHVVLALFVYVAWNEGSRQWREGKQD

>sp|Q9GZP7|VN1R1\_HUMAN Vomeronasal type-1 receptor 1 OS=Homo sapiens GN=VN1R1 PE=2 SV=1

MVGDTLKLLSPLMTRYFFLLFYSTDSSDLNENQHPLDFDEMAFGKVKSGLISFLIQTGVGI  
LGNSFLLCFYNLILFTGHKL RPTDLILSQLALANSMLVFFKGIPQTMAAFGLKYLLNDTG  
CKFVFFYHRVGTRVSLSTICLLNGFQAIKLNPSICRWMEIKIRSPRFIDFCCLLCWAPHV  
LMNASVLLLVNGPLNSKNSSAKNNYGYCSYKASKRFSSLHAVLYFSPDFMSLGMVWASG  
SMVFFLYRHKQVQHNSNRLSCRPSQEARATHIMVLVSSFFVFYSVHSFLTIIWTTVVA  
NPGQWIVTNSVLVASCFPARSPFVLIMSDTHISQFCFACRTRKTLFPNLVVMP

>sp|Q7Z5H5|VN1R4\_HUMAN Vomeronasal type-1 receptor 4 OS=Homo sapiens GN=VN1R4 PE=2 SV=2

MASRYVAVGMILSQTVVGVLSFSVLLHYLSFYCTGCRLRSTDLIVKHLIVANFLALRCK  
GVPQTMAAFGVRYFLNALGCKLVFYLRHVRGRVSGITTCLLSVFQVITVSSRKSRAWALK  
EKAPKHVGFVLLCWIVCMLVNIIFPMYVTGKWNNTNITVNEDLGYCSGGGNNKIAQTLR  
AMLSFPDVLCLGLMLWVSSSMVCILHRHKQRVQHIDRSDLSPRASPENRATQSILILVS  
TFVSSYTLSCFLQVCMALLDNPNSELLVNTSALMSVCFPTLSPFVLMSCDPSVYRFCFAWK  
R

>sp|Q96AX1|VP33A\_HUMAN Vacuolar protein sorting-associated protein 33A OS=Homo sapiens GN=VPS33A PE=1 SV=1

MAAHSYGRVNLNVLREAVRRELREFLDKCAGSKAIVWDEYLTGPFGLIAQYSLLKEHEV  
EKMFTLKGRLPAADVKNIIFFVRPRLELMDIIAENVLSEDRRGPTRDFHILFVPRRSLL  
CEQRLKDLGVLGSFIHREEYSLDLIPFDGDL SMESEGAFCYLEGDQTSLYHAAKGLM  
TLQALYGTIPQIFGKGECARQVANMMIRMKREFTGSQNSIFPVFDNLLLLDRNVDLLTPL  
ATQLTYEGLIDEIYGIQNSYVKLPPEKFAPKKQGDGGKDLPTAKKLQLNSAEELYAEIR  
DKNFNAVGSVLSKKAKIIISAAFEERHNAKTVGEIKQFVSQ LPHMQAARGSLANHTSIAEL  
IKDVTTSSEDFDKLTVEQEFGMSGIDTDKVNNYIEDCIAQKHS LIKVLRLVCLQSVCSNGL  
KQKVLDDYKREILQTYGYEHILTLHNLEKAGLLKPQTGGRNNYPTIRKTLRLWMDDVNEQ  
NPTDISYVYSGYAPLSVRLAQLLSRPGWRSIEEVLRLPGPHFEERQPLPTGLQKKRQPG  
ENRVTLIFFLGGVTFAEIAALRFLSQLEDGGTEYVIATTKLMNGTSWIEALMEKPF

>sp|Q9H267|VP33B\_HUMAN Vacuolar protein sorting-associated protein 33B OS=Homo sapiens GN=VPS33B PE=1 SV=2

MAFPHRPDAPELPDFSM LKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILKQ  
HEVDKLYKVENKPALSSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVI FSPQKF  
YACEMVLEE EGIYGDVSCDEWAFSLLPLDVDLLSMELPEFFRDYFLEGDQRWINTVAQAL  
HLLSTLYGPFPCYGI GRCAKMAYELWRNLEEEEDGETKGRRPEIGHIFLLDRDVFVTA  
LCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFNEIRNEHFSNVFGF  
LSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLSLHIGACESIMKKKTKQDF  
QELIKTEHALLEGFNIRESTSYIEEHIDRQVSPIESLRMLCLLSITENGLIPKDYRSLKT  
QYLQSYGPEHLLTFSNLRRAGLLTEQAPGDTLTAVESKVS KLVTDKAAGKITDAFSSLAK  
RSNFRAISKKNLIPRVDGEYDLKVPRDMAYVFGGAYVPLSRIIEQVLERRSWQGLDEV  
VRLNCSDFAFDTDMTKEDKASSESLRLILVVFLGGCTFSEISALRFLGREKGYRFIFLTT

AVTNSARLMEAMSEVKA

>sp|P63124|VPK04\_HUMAN Endogenous retrovirus group K member 104 Pro protein OS=Homo sapiens GN=HERV-K104 PE=3 SV=1

WASQVSENRPVCKAIIQGKQFEGLVDTEADVSIIALNQWPKNWPQKAVTGLVGIGTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPNLWGDLLQQWGAEITMPAPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKVPVEAKINQKREGIGYPF

>sp|P63120|VPK19\_HUMAN Endogenous retrovirus group K member 19 Pro protein OS=Homo sapiens GN=ERVK-19 PE=3 SV=1

WASQVSENRPVCKAIIQGKQFEGLVDTGADVSIIALNQWPKNWPQKAVTGLVGIGTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPNLWGRDLLQQWGAEITMPAPLYSPTSQKIMT  
KMGYILGKGLGKNEDGIKIPVEAKINQKREGIGYPF

>sp|P63119|VPK21\_HUMAN Endogenous retrovirus group K member 21 Pro protein OS=Homo sapiens GN=ERVK-21 PE=3 SV=1

WASQVSENRPVCKAIIQGKQFEGLVDTGADVSIIALNQWPKNWPQKAVTGLVGIGTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPNLWGRDLLQQWGAEITMPTPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKVPVEAKINQKREGIGYPF

>sp|Q9H8Y1|VRTN\_HUMAN Vertnin OS=Homo sapiens GN=VRTN PE=1 SV=1

MTSRNQLVQKVLQELQEAVECEGLEGLIGASLEAKQVLSSFTLPTCREGGPGLQVLEVDS  
VALSLYPEDAPRNMLPLVCKGEGSLLFEAASMLLWGDAGLSLELRARTVVEMLLHRHYL  
QGMIDSKVMLQAVRYSLCSEESPEMTSLPPATLEAIFDADVKASCFPSFSNVWHLALA  
SVLQRNIYSIYPMRNLKIRPYFNRVIRPRCDHVPSTLHIMWAGPLTSHFFRHQYFAPV  
VGLEEVEAEGAPGVAPALPALPLSSPAKTLELLNREPGLSYSHLCERYSVTKSTFYRWR  
RQSQEHRQKVAARFSAKHFLQDSFHRGGVVPLQQFLQRFPEISRSTYYAWKHELLGSGTC  
PALPPREVLGMEELEKLPEEQVAEEEELECSALAVSSPGMVLQRAKLYLEHCISLNTLVP  
YRCFKRRFPGISRSTYYNWRKALRRNPSFKPAPALSAAGTPQLASVGEGAVIPWKSEAE  
EGAGNATGEDPPAPGELLPLRMPLSRWQRRRLRAARRQVLSGHLPFRCRFLRYPSLSPSA  
FWVWKS LARGWPRGLSKLQVPVPTLGKGGQEAEEKQEKEAGRDVTAVMAPPVGASSEDVE  
GGPSREGALQEGATAQGQPHSGPLLSQPVVAAGGRDGRMLVMDMIATTKFKAQAKLFLQ  
KRFQKSFPSYKEFSALFPLTARSTYYMWKRALYDGLTLVDG

>sp|Q96IQ7|VSIG2\_HUMAN V-set and immunoglobulin domain-containing protein 2 OS=Homo sapiens GN=VSIG2 PE=1 SV=1

MAELPGPFLCGALLGFLCGLAVEVKVPTEPLSTPLGKTAELTCTYSTSVGDSFALEWS  
FVQPGKPISESHPILYFTNGHLYPTGSKSKRVSLQNPPTVGVATLKLTDVHPSTGTYL  
CQVNNPPDFYTNGGLINLTVLPPSNPLCSQSGQTSVGGSTALRCSSSEGAPKPVYNWV  
RLGTFPTSPGSMVQDEVSGQLILTNLSLTSSGTYRCVATNQMGASCELTLSTEPSQG  
RVAGALIGVLLGVLLSVAAFCLVRFQKERGKKPKETYGGSDLREDAIAPGISEHTCMRA  
DSSKGFLERPSSASTVTTTTSKSLPMVV

>sp|Q9Y279|VSIG4\_HUMAN V-set and immunoglobulin domain-containing protein 4 OS=Homo sapiens GN=VSIG4 PE=1 SV=1

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGPWKGDVNLPTDYDPLQGYTQVLVKWLVQR  
GSDPVTIFLRDSSGDHIQAKYQGRLLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTP  
DGNQVVRDKITELRVQKLSVSKPTVTTGSGYGFTVPQGMRIQLCQARGSPPISYIWKQ  
QTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQVGEQHSDIVKFFVKDSSKLLKTK  
TEAPTTMTYPLKATSTVKQSWDWTMDGYLGETSAGPGKSLPVFAIILIIISLCCMVVFT

MAYIMLCRKTSQQEHVYEAARAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNYSDE  
PCIGQEYQIIAQINGNYARLLDTVPLDYEFATEGKSVC

>sp|Q9NZR4|VSX1\_HUMAN Visual system homeobox 1 OS=Homo sapiens GN=VSX1 PE=1 SV=2

MTGRDSLSDGRTSSRALVPGGSPRGSRPRGFAITDLLGLEAELPAPAGPGQGSGCEGPAV  
APCPGPGLDGSSLARGALPLGLGLLCGFGTQPPAAARAPCLLLADVPFLPPRGPEPAAPL  
APSRPPPALGRQKRSDSVSTSEDEDSQSEDRNDLKASPTLGKRKKRRHRTVFTAHQLEELE  
KAFSEAHYPDVYAREMLAVKTELPEMRIQVWFQNRRAKWRKREKRWGGSSVMAEYGLYGA  
MVRHCIPLPDSVLNSAEGGLLGSCAPWLLGMHKKSMGMIRKPGSEDKLAGLWGSDFHKEG  
SSQSESGSQRGSDKVPENGLEDVAIDLSSARQETKKVHPGAGAQQGSNSTALEGPQPG  
KVGAT

>sp|Q502W6|VWA3B\_HUMAN von Willebrand factor A domain-containing protein 3B OS=Homo sapiens GN=VWA3B PE=1 SV=3

MEKSGPSSITSEQQLRQEGWINTKTDLAEQSLISSEKWLQLHGLKSNKLTQILSQIG  
FPHCEDYVASLGRPVASRYADGLFPQLYRAEDGRVYNLTAKSELIYQFVEHLTQAVESYK  
QRMDWLTSKSRQIFGVILEQCVTIVLDFGGILEGELDLCREALTMVLQEQAHAHITEFNII  
RVSQEPVKWQENATPVTEQSIATAISWVEKLTVELTVSEAGRLDALLEAGRDKTIESIYY  
FVVGDPVEESKELLQRALEIPCPVYTVSFNARGEGTIAFLKDLAKTHSRFHAFATERTE  
CVEFPAFSTKGDNVMTWNSRKLKGLPPGAGVREDVFLVWQEMEEACSTLAQIQRLVAE  
PPKPDVATVDCESSETTSVEIASNPEDTWDSKTLQKYGLKAQKLSLYDVLADCSFRHADG  
VVDIAKAPENESVQTS AETNKKTVHAKYCSRFVHAPWKDGLVHVNITKEKCKWYSERIH  
TALARIRRRIKWLQDGSQSLFGRHLNDICIYILIDTSHSMKSKLDLVKDKIIQFIQEQLKY  
KSKFNFVKFDGQAVAWREQLAEVNEDNLEQAQSWIRDIKIGSSTNTLSALKTAFAKETQ  
AIYLLTDGRPDQPETVIDQVKRFQEIPIYITISFNYNDEIANRFLKEVAALTGGEFHFYN  
FGCKDPTPPEAVQNEDLTLLVKEMEQQHSDLEKMQDLYSESLIMDWWYNAEKDGDGSKHQK  
EICSMISTPEKCAKQSDVDSTQTSSLNMLKGPWGLSDQKVQKKVLHAESTKTSLLRSQ  
MSSLRSSACSERKDGLSNASSRRTALSDKEMSILLAEWLDDKSSEKVTREGSQVYDHDS  
SDVSSSENWLKTYGLVAKKLTLMDALSVAAPHSSSTYVPVLDKHVVSKVFDEVFPLAHVCN  
DTNKM TLINPQGAKLNIYKRKVEQAIQSYEKRLNKIVWRALSQEEKEKLDANKPIQYLEN  
KTVLNQALERLNWPISLKELSMLESEILAGKMYIQQAMELQEAACKNYANKAPGEQQKLQ  
GNPTKKTKSKRPDPLKGQKVIARCDENGFYFPGVVKKCVSRTQALVGFSYGDTKVVSTSF  
ITPVGAMPCPLLQVG DYVFAKIVIPKGFDFYVPAIVIALPNKHVATEKFYTVLKCNNRR  
EFCPRSALIKISQNKYALSCSHIKSPPIPEDPEVEDVEARNSAFLFWPLKEADTQDSREP  
RREKPRRKKRPAKQPLQQAAPSDSDGSSHGISSHGSCQGTPEPRTAHLHFPAAGRLGLS  
SHAIATPPPPRAALPCTLQATHSSKGLRSVPETL

>sp|B2RUY7|VWC2L\_HUMAN von Willebrand factor C domain-containing protein 2-like OS=Homo sapiens GN=VWC2L PE=1 SV=1

MALHIHEACILLLVIPGLVTSAAISHEDYPADEGDQISSNDNLIFDDYRGKGCVDSDSGFV  
YKLGERRFFPGHSNCPVCALDGPVCDQPECPKIHPKCTKVEHNGCCPECKEVKNFCEYHG  
KNYKILEEFKPSPEWCRCEPSNEVHCVVADCAVPECVNPVYEPEQCCPVCKNGPNCFAG  
TTIIPAGIEVKVDECNICCHNGDWWKPAQCSKRECQGKQTV

>sp|Q9Y6W5|WASF2\_HUMAN Wiskott-Aldrich syndrome protein family member 2 OS=Homo sapiens GN=WASF2 PE=1 SV=3

MPLVTRNIEPRHLCRQTLPSVRSELECVTNITLANVIRQLGSLSKYAEDIFGELFTQANT  
FASRVSSLAERVDRLQVKVTQLDPKEEEVSLQGINTRKAFRSSTIQDQKLFDRNSLPVPV

LETYNTCDTPPPLNNLTPYRDDGKEALKFYTDPSYFFDLWKEKMLQDTKDIMKEKRKHRK  
EKKDNPNRGNVNRKIKTRKEEWEKMKMGQEFVESKEKLTSGYPPTLVYQNGSIGCVEN  
VDASSYPPPPQSDSASSPSPSFEEDNLPPPPAEFSYPVDNQRGSLAGPKRSSVSPSPHP  
PPAPPLGSPPGPKPGFAPPPAPPPPPPMIGIPPPPPVGFSGPTPPPPSPPSFPPHPD  
FAAPPPPPPPAADYPTLPPPLSQPTGGAPPPPPPPPPGPPPPFTGADGQPAIPPL  
SDTTKPKSSLPVSDARSDLLSAIRQGFQLRRVEEQREQEKRDVVGNDVATILSRRIAVE  
YDSEDDSSFEDEDDWSD

>sp|043709|WBS22\_HUMAN Probable 18S rRNA (guanine-N(7))-methyltransferase OS=Homo sapiens  
GN=WBSR22 PE=1 SV=2

MASRGRPEHGGPPELFYDETEARKYVRNSRMIDIQTRMAGRALELLYLLENKPCYLLDI  
GCGTGLSGSYLSDEGHYVWGLDISPAMLDEAVDREIEGDLLLGDMDGQIPFKPGTFDGC  
SISAVQWLCNANKKSENPAKRLYCFASLFSVLVRGSAVLQLYPENSEQLELITTQATK  
AGFSGGMVVDYPNSAKAKKFYLCLFSGPSTFIPEGLSENQDEVEPRESVFTNERFPLRMS  
RRGMVRKSRAWVLEKKERHRRQGREVRPDTQYTGRKRKPRF

>sp|P30518|V2R\_HUMAN Vasopressin V2 receptor OS=Homo sapiens GN=AVPR2 PE=1 SV=1

MLMASTTSAVPGHPSLPSLPSNSSQERPLDTRDPLLARAELALLSIVFVAVALSNGLVLA  
ALARRGRRGHWAIPHVFIGHLCLADLAVALFQVLPQLAWKATDRFRGPDALCRAVKYLQM  
VGMYASSYMILAMTLDRHRAICRPLAYRHGSGAHWNRPVLVAVAFSLLSLPQLFIFAQ  
RNVEGGSGVTDCWACFAEPWGRRTYVTWIALMVFAVPTLGIACQVLIFREIHASLVPGP  
SERPGGRRRRGRTGSPGEGAHVSAAVAKTVRMTLVIVVVVYLCWAPFFLVQLWAAWDPEA  
PLEGAPFVLLMLLASLNSCTNPWIYASFSSSVSSELRSLLCCARGRTPPSLGPQDESC  
TASSSLAKDTSS

>sp|P52735|VAV2\_HUMAN Guanine nucleotide exchange factor VAV2 OS=Homo sapiens GN=VAV2  
PE=1 SV=2

MEQWRQCGRWLIDCKVLPPNHRVWPSAVVFDLAQALRDGVLLCQLLHNLSPGSIDLKDI  
NFRPQMSQFLCLKNIRTFCLKVCHDKFGLRNSELDPFDFDVRDFGKVISAVSRLSLHSI  
AQNKGIRFPFSEETTENDDDVYRSLEELADEHDLGEDIYDCVPCEDGGDDIYEDIKKEV  
QQPMIRYMQKMGMTEDDKRNCCLEIQETEAKYYRTLEDIEKNYMSPLRLVLSPADMAAV  
FINLEDLIKVVHLSFLRAIDVSMVGGSTLAKVFLDFKERLLIYGEYCSHMEHAQNTLNQL  
LASREDFRQKVEECTLKVQDGKFKLQDLLVPMQRVLYHLLKELLSHAERPERQQLK  
EALAMQDLAMYINEVKRKETLRKISEFQSSIENLQVKLEEFGRPKIDGELKVRISVNH  
TKQDRYLFDFKVIVCKRKGYSYELKEIIELLFHKMTDDPMNNKDVKKSHGKMWSYGFY  
LIHLQKQGFQFFCKTEDMKRWMEQFEMAMSNIPDKANANHHSFQMYTFDKTTNCKAC  
KMFLRGTFYQGYMCTKCGVGAHKECLEVIPPCKFTSPADLDASGAGPGPKMVAMQNYHGN  
PAPPGKPVLTFTQTDVLELLRGDPESPWEGRLVQTRKSGYFPSSSVKPCPVDGRPPISR  
PPSREIDYTAYPWFAGNMRQQTDNLLKSHASGYLIRERPAEAERFAISIKFNDEVKHI  
KVVEKDNWIIHTEAKKFDSLELVEYYQCHSLKESFKQLDTTLKYPYKSRERSASRASSR  
SPASCASYNFSFLSPQGLSFASQGPSAPFWSVFTPRVIGTAVARYNFAARDMRELSLREG  
DVVRIYSRIGDQGWKGETNGRIGWFPSTYVEEEGIQ

>sp|Q9UKW4|VAV3\_HUMAN Guanine nucleotide exchange factor VAV3 OS=Homo sapiens GN=VAV3  
PE=1 SV=1

MEPWKQCAQWLHCKVLPTNHRVTWDSAQVFDLAQTLRDGVLLCQLLNNLRAHSINLKEI  
NLRPQMSQFLCLKNIRTFLTACCTFGMRKSELFEAFDLFDVRDFGKVIETLSRLSRTP  
I ALATGIRFPFTEESINDEDIYKGLPDLIDETLVEDEEDLYDCVYGEDEGGEVYEDLMKAE

EAHQPKCPENDIRSCCLAEIKQTEEKYTETLESIEKYFMAPLKRFLTAAEFDSVFINIPE  
LVKLHRNLMQEIHDSIVNKNDQNLVQVFINYKERLVIYGQYCSGVESAISSLDYISKKE  
DVKLKEECSKRANNGKFTLRDLLVVPQVRVLYHLLQLVKHHTDPTEKANLKLALDA  
MKDLAQYVNEVKRDNETLREIKQFQLSIENLNQPVLLFGRPQGDGEIRITTLDKHTKQER  
HIFLFDLAVIVCKRKGDNEMKEIIDLQQYKIANNPTTDKENKKWSYGFYLIHTQQQNGL  
EFYCKTKDLKKKWLEQFEMALSNIRPDYADSNFHDHFKMHTFTRVTSCKVCQMLLRGTFYQ  
GYLCFKCGARAHKECLGRVDNCGRVNSGEQGTLLPEKRTNGLRRTPKQVDPGLPKMQVI  
RNYSGTPPPALHEGPPLQLQAGDTVELLKGDAHSLFWQGRNLASGEVGFPSDAVKPCPC  
VPKPDVYSCQPWYAGAMERLQAETELINRVNSTYLVRHRTKESGEYAIISIKYNNEAKHIK  
ILTRDGGFFHIAENRKFKSLMELVEYYKHSLKEGFRTLDTTLQFPYKEPEHSAGQRGNRA  
GNSLLSPKVLGIAIARYDFCARDMRELSLLKGDVVKIYTKMSANGWWRGEVNGRVGWFPS  
TYVEEDE

>sp|O14599|VCY2\_HUMAN Testis-specific basic protein Y 2 OS=Homo sapiens GN=BPY2 PE=1 SV=2  
MMTLVPRARTRAGQDHYSHPCPRFSQVLLTEGIMTYCLTKNLSNVNHLRLLKNGNVRNT  
LLQSKVGLLTYVYKLYPGEVTLTRPSIQMRLCCITGSVSRPRSQK

>sp|P21796|VDAC1\_HUMAN Voltage-dependent anion-selective channel protein 1 OS=Homo sapiens GN=VDAC1 PE=1 SV=2

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGSLET  
KYRWTEYGLTFTEKWNTDNTLGEITVEDQLARGLKLTFDSSFSPTGKKNKIKTGKGR  
EHINLGCDMDFDIAGPSIRGALVLGYEGLAGYQMNFFETAKSRVTQSNFAVGKYTDEFQL  
HTNVNDGTEFGGSIIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKYQIDPDACFSKVNNS  
SLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA

>sp|P17948|VGFR1\_HUMAN Vascular endothelial growth factor receptor 1 OS=Homo sapiens GN=FLT1 PE=1 SV=2

MVSYWDTGVLLCALLSCLLLTGSSSGSKLDPELSLKGTHIMQAGQTLHLQCRGEAAHK  
WSPPEMVSKESERLSITKSACGRNGKQFCSTLTNTAQANHTGFYSCKYLAVPTSKKKET  
ESAIYIFISDTGRPFVEMYSEIPEIIHMTGRELVI PCRVTSPTNITVTLKKFPLDTLIPD  
GKRIIWDSRKGFIIISNATYKEIGLLTCEATVNGHLYKTNYLTHRQTNTIIDVQISTPRPV  
KLLRGHTLVLNCTATPTLNTRVQMTWSYPDEKNKRASVRRRIDQSNSHANIFYSVLTIDK  
MQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQQVLETVAGKRSYRLSMKVK  
AFPSPEVWVKDGLPATEKSARYLTRGYSIIKDVTEEDAGNYTILLSIKQSNVFNLTAL  
TLIVNVKPKIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKFWHPCNNHSEARC  
DFCSNNEESFILDADSNMGNRIESITQRMALIEGKNKMASTLVVADSRISGIYICIASNK  
VGTVGRNISFYITDVPNGFHVNLKEMPTGEDLKLCTVKNFLYRDVTWILLRTVNNRTM  
HYSISKQKMAITKEHSITLNLTIMNVSQDSGTACRARNVYTGEELQKKEITIRDQEA  
PYLLRNLSDHVAISSSTLTDCHANGVPEPQITWFKNNHKIQQEPGII LGPGSSTLFIER  
VTEEDGEGVYHCKATNQKGSVESSAYLTVQGTSDKSNLELITLTCTCVAATLFWLLTLFI  
RKMKRSSSEIKTDYLSIIMDPDEVPLDEQCERLPYDASKWEFARERLKLGKSLGRGAFGK  
VVQASAFGIKKSPTCRTCRTVAVKMLKEGATASEYKALMTELKILTHIGHHLNVNLLGACTK  
QGGPLMVIYEYCKYGNLSNYLKSQRDLFFLNKDAALHMEPKKEKMEPGLEQGKKPRLDSV  
TSSESFASSGFQEDKSLSDVEEEDSDGFYKEPITMEDLISYSFQVARGMEFLSSRKCIH  
RDLAARNILLSENNVKICDFGLARDIYKNPDYVRKGDTRLPLKWMAPESIFDKIYSTKS  
DVWSYGVLLWEIFSLGGSPYPGVQMDQDFCSRLREGMRMRAPEYSTPEIYQIMLDCWHRD  
PKERPRFAELVEKLGDLLQANVQQDGKDYIPINAILTGNSGFTYSTPAFSEDFFKESISA

PKFNSGSSDDVRYVNAFKFMSLERIKTFEELLPNATSMFDDYQGDSSTLLASPMLKRFTW  
TDSKPKASLKIDLRVTSKSKESGLSDVSRPSFCHSSCGHVSEGKRRFTYDHAELERKIIAC  
CSPPPDYNSVVLSTPPI

>sp|Q8N8G2|VGLL2\_HUMAN Transcription cofactor vestigial-like protein 2 OS=Homo sapiens  
GN=VGLL2 PE=1 SV=1

MSCLDVMYQVYGPPQPYFAAAYTPYHQKLAYYSKMQEAQECNASPSSSGSGSSSFSSQTP  
ASIKEEEGSPEKERPPEAEYINSRCVLFYFQGDISSVDEHFSRALSQPSSYSPSCTSS  
KAPRSSGPWRDCSFPMSQRSFPASFWNSAYQAPVPPPLGSPLATAHSELPFAAADPYSPA  
ALHGHLLHQGATEPWHHAHPHHAHPHPYALGGALGAQAAPYPRPAAVHEVYAPHFDPYRG  
PLLMPAASGRPARLATAPAPAGSPPCELSGKGEPAGAAWAGPGGPFASPSGDVAQGLGL  
SVDSARRYSLCGASLLS

>sp|Q8NDX2|VGLU3\_HUMAN Vesicular glutamate transporter 3 OS=Homo sapiens GN=SLC17A8 PE=1  
SV=1

MPFKAFDTFKEKILKPGKEGVKNAVGDLSGILQRKIDGTTEEDNIELNEEGRPVQTSRP  
SPPLCDCHCCGLPKRYIIAIMSGLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTA  
QFNWDPETVGLIHGSFFWGYIMTQIPGGFISNKFAANRVFGAAIFLTSTLNMFIPSAARV  
HYGCVMCVRILQGLVEGVITYPACHGMWSKWAPPLERSRLATTSFCGSYAGAVVAMPLAGV  
LVQYIGWSSVFIYGMFGIIWYMFLLQAYECPAAHPTISNEEKTYIETSIGEGANVVSL  
SKFSTPWKRFFTSLPVYAIIVANFCRSWTFYLLISQPAYFEEVFGFAISKVGLLSAVPH  
MVMITVPIGGQLADYLRSRQILTTTAVRKIMNCGGFGMEATLLLVGFSHTKGVAISFL  
VLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPLIVGAMTRHKTREEW  
QNVFLIAALVHYSGVIFYGVFASGEKQEWADPENLSEKCGIIDQDELAEEIELNHESFA  
SPKKKMSYGATSQNCVQKKKEWKQRGATLDEEELTSYQNEERNFSTIS

>sp|Q9H598|VIAAT\_HUMAN Vesicular inhibitory amino acid transporter OS=Homo sapiens  
GN=SLC32A1 PE=2 SV=2

MATLLRSKLSNVATSVSNKSQAKMSGMFARMGFQAATDEEAVGFAHCDDLDFEHRQGLQM  
DILKAEGEPCGDEGAEAPVEGDIHYQRGSGAPLPPSGSKDQVGGGGEFGGHDKPKITAW  
AGWNVNNAIQGMFVLGLPYAILHGGYLGLFLIIFAAVVCCYTGKILIIACLYEENEDGEV  
RVRDSYVAIANACCAPRFPTLGGRRVNVNAQIIELVMTCILYVVVSGNLMYNSFPGLPVSQ  
KWSIIATAVLLPCAFLKNLKAWSKFSLLCTLAHFVINILVIAYCLSRARDWAWKVKFY  
IDVKKFPISIGIIIVFSYTSQIFLPSLEGNMQQPSEFHCMMNWTHIAACVLKGLFALVAYL  
TWADETKEVITDNLPGSIRAVVNIFLVAKALLSYPLPFFAAVEVLEKSLEQGSRAFFPA  
CYSGDGRKLSWGLTLRCALVVFTLLMAIYVPHFALLMGLTGSLTGAGLCFLLPSLFHLRL  
LWRKLLWHQVFFDVAIFVIGGICSVSGFVHSLEGLIEAYRTNAED

>sp|P18206|VINC\_HUMAN Vinculin OS=Homo sapiens GN=VCL PE=1 SV=4

MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE  
TVQTTEQILKRDMPPAFIKVENACTKLVAQAQMLQSDPYSVPARDYLIDGSRGILSGTS  
DLLLTFDEAEVRKIIIRVCKGILEYLTVAEIVETMEDLVITYTKNLGPGMTKMAKMIDERQQ  
ELTHQEHVMLVNSMNTVKELLPVLIISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE  
INEIIRVLQLTSWDEDAWASKTEAMKRALASIDSKLNQAKGWL RDPSASPGDAGEQAIR  
QILDEAGKV GELCAGKERREILGTCKMLGQMTDQVADLRARGQGSSPVAMQKAQQVSQGL  
DVLTA KVENAARKLEAMTNSKQSI AKKIDAAQNLADPNGGPEGEEQIRGALAEARKIAE  
LCDDPKERDDILRSLGEISALTSKLADLRRQKGDSPEARALAKQVATALQNLQTKTNRA  
VANSRPAKAAVHLEGGKIEQAQRWIDNPTVDDRGVGQA AIRGLVAEGHRLANVMMGPYRQD



LLAKCDRVDQLTAQLADLAARGESESPQARALASQLQDSLKDLKARMQEAMTQEVSDVFS  
DTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVGTANKSTVEG  
IQASVKTARELTPQVVSAARILLRNPNGQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTK  
SLLDASEEAIKKDLKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFR  
EAVKAASDELSTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEP  
DFPPPPPDLEQLRLTDELAPPKPPLPEGEVPPPRPPPPPEEKDEEFPEQKAGEVINQPM  
AARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADAAGFPVPPDMEDDYEPPELLMPSNQ  
PVNQPIIAAAQSLHREATKWSSKGNIIIAAKRMALLMAEMSRLVRGGSGTKRALIQCAK  
DIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNIS  
DEESEQATEMLVHNAQNLMSVKETVREAEAAASIKIRTDAGFTLRWVRKTPWYQ

>sp|P32241|VIPR1\_HUMAN Vasoactive intestinal polypeptide receptor 1 OS=Homo sapiens  
GN=VIPR1 PE=1 SV=1

MRPPSPLPARWLCVLGALAWALGPAGGQAARLQEECDYVQMIEVQHKQCLEEAQLENET  
IGCSKMWDNLTCWPATPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWTLEPGPYPI  
ACGLDDKAASLDEQTMFYGSVKTYGTIGYGLSLATLLVATAILSLFRKLHCTRNYIHM  
LFISFILRAAAVFIKDLALFDSGESDQCSEGSVGCKAAMVFFQYCVMANFFWLLVEGLYL  
YTLLAVSFFSERKYFWGYILIGWGPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIKGP  
ILTSILVNFILFICIRILLQKLRPDIRKSDSSPYSRLARSTLLIPLFGVHYIMFAFF  
PDNFKPEVKMFELVVGSGFQGVVAILYCFLNQGEVQAEARRKWRRLQGVLGWNPKYRH  
PSGGSNGATCSTQVSMLTRVSPGARRSSSFQAEVSLV

>sp|P41587|VIPR2\_HUMAN Vasoactive intestinal polypeptide receptor 2 OS=Homo sapiens  
GN=VIPR2 PE=1 SV=2

MRTLLPALLTCWLLAPVNSIHPECRFHLEIQEEETKCAELLRSQTEKHKACSGVWDNIT  
CWRPANVGETVTVPCKVFSNFYSKAGNISKNCTSDGWSETFPDFVDACGYSDPEDESKI  
TFYILVKAITYTLGYSVLSMLATGSIILCLFRKLHCTRNYIHLNLFSLFILRAISVLVKD  
DVLYSSSGTLHCPDQPSWVGCKLSLVFLQYCIANFFWLLVEGLYLHTLLVAMPLPPRC  
FLAYLLIGWGLPTVCIGAWTAARLYLEDTCWDTNDHSPVWVIRIPILISIIVNFVLF  
SIIRILLQKLTSQVGGNDQSYKRLAKSTLLIPLFGVHYMVFAVFPISISSKYQILFE  
LCLGSFQGLVVAVLYCFLNSEVQCELKRKWSRCPTPSASRDYRVCGSSFSRNGSEGALQ  
FHRGSRAQSFLQTETSVI

>sp|Q8IW00|VSTM4\_HUMAN V-set and transmembrane domain-containing protein 4 OS=Homo sapiens  
GN=VSTM4 PE=2 SV=3

MRLALAAAAALLARAPAEVCAALNVTVSPGPVVDYLEGENATLLCHVSQKRRKDSLLAV  
RWFFAHSFDSQEALMVKMTKLRVVQYYGNFSRSKRRLRLLEEQRGALYRLSVLTLQPS  
DQGHYVCRVQEISRHRNKWTAWNGSSATEMRVISLKASEESSFEKTKETWAFEDLYVY  
AVLVCCVGILSILLFMLVIVWQSVFNKRKSRVRHYLVKCPQNSSGETVTSVTS LAPLPK  
KGKRQKEKPDIPPAVPAKAPIAPT FHKPKLLKPQRKVTLPKIAEENLTYAELELIKPHRA  
AKGAPTSTVYAQILFEENKL

>sp|Q9UPY6|WASF3\_HUMAN Wiskott-Aldrich syndrome protein family member 3 OS=Homo sapiens  
GN=WASF3 PE=1 SV=2

MPLVKRNIEPRLCRGALPEGITSELCVTNSTLAAII RQLSSLSKHAEDIFGELFN  
NFYIRANSLQDRIDLAVKVTQLDSTVEEVS LQDINMKKAFKSSTVQDQVVS KNSIPNP  
VADIYNQSDKPPPLNLTPTYRDDKDKGLKFYTDPSYFFDLWKEKMLQDTEDKRKEKRRQK  
EQKRIDGTTREVKKVRKARNRRQEWNMMAYDKELRPDNRLSQSVYHGASSEGLSPDTRS

HASDVTDYSYPATPNHSLHPQVTPSYAAGDVPPHGPASQAAEHEYRPPSASARHMALNR  
PQQPPPPPPQAPEGSQASAPMAPADYGMLPAQII EYYPNSGPPPPPPPVIPSAQTAFV  
SPLQMPMQPPFPASASSTHAAPHPSTGLLV TAPPPGPPPPPGPPGPGSSLSSSPMH  
GPPVAEAKRQEPAPPI SDARSDLLAAIRMG IQLKKVQE QREQEAKREPVGNDVATILSR  
RIAVEYSDSDDDSEFDENDWSD

>sp|C4AMC7|WASH3\_HUMAN Putative WAS protein family homolog 3 OS=Homo sapiens GN=WASH3P  
PE=1 SV=2

MTPVRMQHSLAGQTYAVPLIQPDLRREEAVQQMADALQYLQKVS GDI FSRISQQVEQSRS  
QVQAIGEKVSLAQAKIEKIKGSKKAIKVFS SAKYPAPERLQEYGSIFTGAQDPGLQRRPR  
HRIQSKHRPLDERALQEKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLL FNTTENL  
GKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISKREQL EQVPENYFYVPDLGQVP  
EIDVPSYLPDLPGITNDL MYIADLGPGIAPSAPGTIPELPTFHTEVAEPLKVDLQDG VLT  
PPPPPPPPPAPEVLASAPPLPPSTAAPVGQGARQDDSSSSASPSVQGAPREVVDPSGGR  
ATLLESIRQAGGIGKAKLRSMKERKLEKKQKEQEQRATSSQGGHLSDFNKLVMRRKG  
ISGKGPGAGEGPGGAFARVSDSIPPLPPPQQPQAEEDDDWES

>sp|O00401|WASL\_HUMAN Neural Wiskott-Aldrich syndrome protein OS=Homo sapiens GN=WASL  
PE=1 SV=2

MSSVQQQPPPPRRVTNVGSLLLTPQENESLFTFLGKKCVTMSSAVVQLYAADRNCMWSKK  
CSGVACLVKDNPQRSYFLRIFDIKDGKLLWEQELYN NFVYNSPRGYFHTFAGDTCQVALN  
FANEEEAKKFRKAVTDLLGRRQRKSEKRRDPPNGPNLPMATVDIKNPEITTNRFYGPQVN  
NISHTKEKKKGAKKKRLTKADIGTPSNFQHIGHVGWD PNTGFDLNNLDP ELKNL FDMCG  
ISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPPPSRGPPPPPPPHNSGPP  
PPPARGRGAPPPPSRAPTAAPPPPPSRPSVAVPPPPPNRMYP PPPPALPSSAPSGPPP  
PPPSVLGVGPVAPPPPPPPPPPGPPPPGLPSDGDH QVPTTAGNKAALLDQIREGAQLK  
KVEQNSRPVSCSGRDALLDQIRG IQLKSVADGQESTPPTAPTSGIVGALMEVMQKRSK  
AIHSSDEDEDEDDEDFEDDDEWED

>sp|Q2TBF2|WSCD2\_HUMAN WSC domain-containing protein 2 OS=Homo sapiens GN=WSCD2 PE=2 SV=2

MAKLWFKFQRYFRRKPVRF FTFLALYL TAGSLVFLHSGFVGQPAVSGNQANPAAAGGPAE  
GAELSFLGDMHLGRGFRDTGEASSIARRYGPWFKGKDGNERAKLGDYGGAWSRALKGRVV  
REKEEERAKYIGCYLDDTQSRALRGVSFFDYKKMTIFRCQDNCAERGYLYGGLEFGAECY  
CGHKIQATNVSEAECDMECKGERGSVCGGANRLSVYRLQLAQESARRYGS AVFRGCFFRP  
DNL SLALPVTAAMLNMSVDKCVDFCTEKEYPLAALAGTACHCGFPTTRFPLHDREDEQLC  
AQKCSAEFEFESCGTPSYFIVYQTQVQDNRCMDRRFLPGKSKQLIALASFPGAGNTWARHL  
IELATGFYTGSY YFDGSLYNGFKGERDHWRS GRTICIKTHESGQKEIEAFDAAILLIRN  
PYKALMAEFNRKYGGHIGFAAHAHWKGEWPEFVRNYAPWWATHTLDWLKFGKKVLV VHF  
EDLKQDLFVQLGRMVSL LGVAVREDRLLCVESQKDG NFKRSGLRKLEYDPYTADMQKTIS  
AYIKMVDAALKGRNLTGVPDDYYPR

>sp|P19544|WT1\_HUMAN Wilms tumor protein OS=Homo sapiens GN=WT1 PE=1 SV=2

MGSDVRDLNALLPAVPSLGGGGG CALPVSGAAQWAPVLDFA PP GASAYGSLG GPAPPPAP  
PPPPPPPHSFIKQEPSWGGAEPHEEQCLSAFTVHFSGQFTGTAGACRYGPF GPPPPSQA  
SSGQARMFPNAPYLPSCLESQPAIRNQGYSTVTFDGT PSYGHTPSHHAAQFPNHSFKHED  
PMGQQGSLGEQQYSVPPVYGCHTPTDSCTGSQALLLRTPYSSDNL YQMTS QLECM TWNQ  
MNLGATLKGVAAGSSSSSVKWT EGQSNHSTGYESDNHTT PILCGAQYRIHTHGVFRGIQDV  
RRVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDC

ERRFSRSDQLKRHRRTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWPS  
CQKKFARSDELVRHHNMHQRNMTKLQAL

>sp|P46094|XCR1\_HUMAN Chemokine XC receptor 1 OS=Homo sapiens GN=XCR1 PE=1 SV=1

MESSGNPESTTFYYDLQSQPCENQAWVFATLATTVLYCLVFLSLVGNSLVLVLVKYE  
SLESLTNIFILNLCLSDLVFACLLPVWISPYHWGVLGDFLCKLLNMIFSISLYSSIFFL  
TIMTIHRYLSVVSPLSTLRVPTLCRVLVTMAVWVASILSSILDTIFHKVLSSGCDYSEL  
TWYLTSVYQHNLFFLLSLGIILFCYVEILRTLFRSRSKRRHRTVKLIFAIVVAYFLSWG  
YNFTLFLQTLFRTQIIRSCEAKQQLLEYALLICRNLAFSHCCFNPVLYVFGVKFRTHLKH  
VLRQFWFCRLQAPSPASIPHSPGAFAYEGASFY

>sp|Q5GH77|XKR3\_HUMAN XK-related protein 3 OS=Homo sapiens GN=XKR3 PE=2 SV=1

METVFEEMDEESTGGVSSSKEEIVLGQRLHLSFPFSIIIFSTVLYCGEVAFLYMFEEIYRK  
ANDTFWMSFTISFIIVGAILDQIILMFFNKDLRRNKAALLFWHILLGPIVRCLHTIRNY  
HKWLKNLQKEKETQVSITKRNTMLEREIAFSIRDNFMQQKAFKYMSVIAFLGSVPQLI  
LQMYISLTIREWPLNRALLMTFSLLSVTYGAIRCNI LAIQISNDDTTIKLPPIEFFCVVM  
WRFLEVISRVVTLAFFIASLKLKSLPVLLIIYFVSLLAPWLEFWKSGAHLPGNKENNSNM  
VGTVLMFLITLLYAAINFSCWSAVKLQLSDDKIIDGRQRWGHRIHYSFQFLENVIMIL  
VFRFFGGKTLLNCCDSLIAVQLIISYLLATGFMLLFYQYLYPWQSGKVLPGRTENQPEAP  
YYYVNIETKKNKQLRNYCHSCNRVGYFSIRKSMTCS

>sp|Q6UX68|XKR5\_HUMAN XK-related protein 5 OS=Homo sapiens GN=XKR5 PE=2 SV=1

MHARLLGLSALLQAAEQSARLYTVAYYFTTGRLWGWLALAVLLPGFLVQAALSYLWFRAD  
GHPGHCSLVMLHLLQLGVWKRHWDAALTSLQKELEAPHRGWLQLQEADLSALRLLEALLQ  
TGPHLLLQTYVFLASDFTDIVPGVSTLFSWSSLSWALVSYTRFMGMKPGHLAMPWAALF  
CQQLWRMGMLGTRVLSLVLFYKAYHFVWFVAGAHWLVMTFWLVAQQSDIIDSTCHWRLF  
NLLVGAVYILCYLSFWDSPSRNRMVTFYVMLENIILLLLATDFLQGASWTSLQTIAGV  
LSGFLIGSVSLVIYYSLLHPKSTDIWQGCLRKSCGIAGGDKTERRDSPRATDLAGKRTES  
SGSCQGASYEPTILGKPPTPEQVPEAGLTQVAVEDSFLSHHHWLWVKLALKTGNVSKI  
NAAF GDNSPAYCPPAWGLSQDYLRKALSAQQELPSSSRDPSTLENSSAFEGVPKAEAD  
PLETSSYVSFASDQDEAPTQNPAAATQEGTPKEGADAVSGTQGKGTGGQQRGEGGQSS  
TLYFSATAEVATSSQEGSPATLQTAHSGRRLGKSSPAQPASPHVGLAPFPDTMADISP  
ILGTGPCRGFCPSAGFPGRTLSISELEEPLEPKREL SHHAAGVWVSLPQLRTAHEPCLT  
STPKSESIQTDCSCREQMKQEPSFFI

>sp|Q5GH73|XKR6\_HUMAN XK-related protein 6 OS=Homo sapiens GN=XKR6 PE=2 SV=1

MAAKSDGGGVGVGFAQLHNLDEAVGSGGEEDGEPGGGGCGGGDGSEPGESSSMHICHCC  
NTSSCYWGCRSACLRSLGRKPRRSAAADGGDQPLQPPAAPGAGRQPPTPSAARPEPPPP  
QVERPWLDCWLIVLALLVFFGDVGTDLWLALDYRKGDYVYFGLTLFFVLVPSLLVQSLS  
FRWFVQDYTGGLGAVEGLTSRGPPMMGAGYVHGAARGPGVRVSPTPGAQRLCRLSVWI  
WQSVIHLLQMGQVWRYIRTMYLGIQSQRKEHQRRFYWAMMYEYADVNMLRLLETFLISA  
PQLVLQLYIMLQKNSAETLPCVSSVTSLSLAWVLASYHKLLRDSRDDKKSMSYRGAI IQ  
VFWRLFTISSRVISFALFASIFQLYFGIFVVVHWCAMAFWIIHGGTDFCMSKWEEILFNM  
VVGIVYIFCFWNVKEGRTRYRMFAYYTIVLTENAALTFLWYFYRDPETTDSYAVPALCCV  
FISFVAGIAMMLLYYGV LHPTGPRAKILASSCCAELLWGIPLPDVEPMAPEIPGYRGQT  
VTPTRAVTEQQEDLTADTCLPVFQVRPMGPPTPLGRPYLPEGPLIKIDMPRKRYPAWDAH  
FVDRRLRRTINILQYVTPTAVGIRYRDGPLL YELLQYESSL

>sp|P55060|XPO2\_HUMAN Exportin-2 OS=Homo sapiens GN=CSE1L PE=1 SV=3

MELSDANLQTLTEYLKKTLDPDPAIRRAEKFLESVEGNQNYPLLLTLLEKSQDNVIKV  
CASVTFKNYIKRNRIVEDENPKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIGR  
EDFPQKWPDLITEMVNRFAQSGDFHVLRTAHSFLKRYRHEFKSNELWTEIKLVDAF  
ALPLTNLFKATIELCSTHANDASALRILFSSILISKLFYSLNFQDLPEFFEDNMETWMN  
NFHTLLTLDNKLQTDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL  
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEE  
AFEDNSEEYIRRDLEGSIDITRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNP  
SVNWKHKDAAIYLVTSASKAQTKHGITQANELVNLTEFFVNHILPDLKSANVNEFPVL  
KADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAAHALERLFTMRGPNNATL  
FTAAEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIIPYIPTLITQLTQ  
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVNFEEALFLVFTEILQNDVQEFI  
PYVFQVMSLLETHKNDIPSSYMLFPHLLQPVLWERTGNIPALVRLLQAFLERGSNTIA  
SAAADKIPGLLGVFQKLIASKANDHQGFYLLNSIIEHMPPEVDQYRKQIFILLFQRLQN  
SKTTKFIKSFLVINLYCIKYGALALQEIFDGIQPKMFGMVLEKIIPEIQKVSNGVEKK  
ICAVGITKLLTECPPMMDTEYTKLWTPLQLSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ  
TAFSQLAFAGKKEHDPVGMVNNPKIHLAQSLHKLSTACPRVPSMVSTSLNAEALQYLQ  
GYLQAASVTLL

>sp|043592|XPOT\_HUMAN Exportin-T OS=Homo sapiens GN=XPOT PE=1 SV=2

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EHQVKYKSELTTVQQQLIRETLISWLQAQMLNPQPEKTFIRNKAQVFALLFVTEYLT  
WPKFFFDILSVVDLNPGRVDLYLRILMAIDSELVDRDVVHTSEEARRNTLIKDTMREQCI  
PNLVESWYQILQNYQFTNSEVTCQCLEVVGAYVSWIDLSLIANDRFINMLLGHMSIEVLR  
EEACDCLFEVVNKGMDPVDKMKLVESLCQVLQSAGFFSIDQEEDVDFLARFSKLVNGMGQ  
SLIVSWSKLIKNGDIKNAQEALQAIETKVALMLQLLIHEDDDISSNIIGFCYDYLHILKQ  
LTVLSDQKANVEAIMLAVMKKLTUDEEYNFENEGEDEAMFVEYRKQLKLLDRLAQVSP  
ELLLASVRRVFSSTLQNWQTTRFMEVEVAIRLLYMLAEALPVSHGAHFSGDVSKASALQD  
MMRTLVTSGVSSYQHTSVTLEFFETVVRYEKFFTVEPQHIPCVLMAFLDHRGLRHSSAKV  
RSRTAYLFSRFVKSINKQMPFIEDILNRIQDLELSPENGHQSLSSDDQLFIYETAG  
VLIVNSEYPAERKQALMRNLLTPLMEKFKILLEKLMLAQDEERQASLADCLNHAVGFASR  
TSKAFSNKQTVKQCGCEVYLDCLQTFPLALSCPLQKDILRSGVRTFLHRMICLEEEVL  
PFIPSASEHMLKDCEAKDLQEFIPLINQITAKFKIQVSPFLQQMFMLLHAIFEVLLRPA  
EENDQSAALEKQMLRRSYFAFLQTVTGSGMSEVIANQGAENVERVLVTVIQGAVEYDPDI  
AQKTCFIILSKLVELWGGKDPVGFADFVYKHIVPACFLAPLKQTFDLADAQTVLALSEC  
AVTLKTIHLKRGPECVQYLQQEYLPQLQVAPEIIQEFCQALQQPDAKVFNKYLKVFFQRA  
KP

>sp|Q9NQW7|XPP1\_HUMAN Xaa-Pro aminopeptidase 1 OS=Homo sapiens GN=XPNPEP1 PE=1 SV=3

MPPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPDCRRAFVSGFDGSA  
GTAIITEEHAAMWTDGRYFLQAAKQMDSNWTLMKMGLKDTPTQEDWLVSVLPEGSRVGV  
PLIIPTDYWKMAKVLRSAGHHLIPVKENLVDKIWTDRPERPCKPLLTGLDYGISWKD  
KVADLRKMAERNVMWFVVTALDEIAWLFNLRGSDVEHNPVFFSYAIIIGLETIMLFIDGD  
RIDAPSVKEHLLDLGLEAEYRIQVHPYKSILSELKALCADLSPREKVWVSDKASYAVSE  
TIPKDHRCMPYTPICIAKAVKNSAESEGMRRRAHIKDAVALCELFNWLEKEVPKGGVTEI  
SAADKAEFFRRQQADFVDSLFTPTISSTGPNGAIHYAPVPETNRTLSDDEVYLDGAQY  
KDGTTDVRTMHFGTPTAYEKECFYVLKGHIAVSAVFPTGTGHLLDSEFARSALWDSG

LDYLHGTGHGVGSFLNVHEGPCGISYKTFSDLEAGMIVTDEPGYYEDGAFGIRIENVV  
LVVPVKTKYNFNNRGS�TFEPLTLVPIQTKMIDVDSLTDKECDWLNHYHLTCRDVIGKEL  
QKQGRQEALEWLIRETQPISKQH

>sp|Q9NQH7|XPP3\_HUMAN Probable Xaa-Pro aminopeptidase 3 OS=Homo sapiens GN=XPNPEP3 PE=1  
SV=1

MPWLLSAPKLVPAVANVRGLSGCMLCSQRRYSLQPVPERRIPNRYLGQPSFTHPHLLRP  
GEVTPGLSQVEYALRRHKLSLIQKEAQGGSGTDQTVVLSNPTYYSNDIPYTFHQDNN  
FLYLCGFQEPDSILVLQSLPGKQLPSHKAILFVPRRDPRELWDGPRSGTDGAIALTGVD  
EAYTLEEFQHLLPKMAETNMVWYDWMRPSHAQLHSDYMQPLTEAKAKSKNKVRGVQQLI  
QRLRLIKSPAETERMQIAGKLTSAFIETMFTSKAPVEEAFLYAKFEFECRARGADILAY  
PPVVAGNRSNTLHYVKNNQLIKDGMVLLDGGCESSCYVSDITRTWPVNGRFTAPQAE  
YEAVLEIQRDCLALCFPGTSLNIYSMMLTLIGQKLKDLGIMKNIKENNAFKAARKYCPH  
HVGHYLGMDVHDTDPMPRSPLQPGMVITIEPGIYIPEDDKDAPEKFRGLGVRIEDDVVV  
TQDSPLILSADCPKEMNDIEQICSQAS

>sp|Q5DID0|UROL1\_HUMAN Uromodulin-like 1 OS=Homo sapiens GN=UMODL1 PE=2 SV=2

MLRTSGLALLALVSAVGPSQASGFTEKGLSLLGYQLCSHRVTHTVQKVEAVQTSYTSYVS  
CGGWIPWRRCPKMYVRTQYLVVEVPESRNVTDCEGYEQLGLYCVLPLNQSGQFTSRPGA  
CPAEGPEPSTSPCSLDIDCPGLEKCCPWSSGGRYCMAPAPQAPERDPVGSWYNVTILVKMD  
FKELQQVDPRLLNHMRLHSLVTSALQPMASVHHLHSAPGNASTTVSRLLLGLPRPLPV  
ADVSTLLGDIARKVYEIVSVQVQDVNECFYEELNACSGRELSCANLEGSYWCVCHQEAPAT  
SPRKLNLEWEDCPPVSDYVVLNVTSDSFQVSWRLNSTQNHTFHVRYRGMELLRSARTQS  
QALAVAGLEAGVLYRVKTSYQCGGADVSTTLTIKTNAQVFEVTIKIVNHNLTEKLLNRSS  
VEYQDFSRQLLHEVESSFPVVSPLYRSGKLRMQIVSLQAGSVVRLKLTVDPGFPMGI  
STLAPILQPLLASTVFQIDRQGRVQDWDECVDSEAHD CSPAAWCINLEGSYTCQCRTR  
DATPSRAGRACEGDLVSPMGGLSAATGVTVPGLGTGTAALGLENFTLSPSPGYPQGT  
PAAGQAWTPESPRRGGSNVVGYDRNNTGKGVEQELQGNIMEPPSWSPPTEDPTGHFLWHA  
TRSTRETLLNPTWLRNEDSGPSGSVDLPLTSTLTALKTPACVPVSGRIMVSNVTSTGFH  
LAWEADLAMSTFQLTLTSMWSPAVVLETWNTSVTLSGLEPGVLHLVEIMAKACGKEGAR  
AHLKVRTAARKLIGKVRINKVRYSESFRNASSQEYRDFLELFFRMVRGSLPATMCQHMDA  
GGVRMEVVSVTNGSIVVEFHLLIIADVQVEVSAAFQVPLLEVIRGDTFIQDYDE  
CERKEDDCVPGTSCRNTLGSFTCSCEGGAPDFPVEYSERPCEGDSPGNETWATSPERPLT  
TAGTKAAAFVQGTSTPTQGLPQRLNLTGAVRVLCIEKVVAIQKRFLQQESIPESLYLS  
HPSCNVSHSNGTHVLEAGWSECGTLMQSNMTNTVVRTTLRNDLSQEGIIHHLKILSPIY  
CAFQNDLLTSSGFTEWGVYTIIEDLHGAGNFVTEMQLFIGDSPIPQNYSVSASDDVRIE  
VGLYRQKSNLKVVLTECWATPSSNARDPITFSFINNSCPVPNTYTNVIENGNSNKAQFKL  
RIFSFINDSIVYLHCKLRVCMESPGATCKINCNNFRLLQNSETSATHQMSWGPLIRSEGE  
PPHAEAGLGAGYVVLIVVAIFVLVAGTATLLIVRYQRMNGRYNFKIQSNNFSYQVFYE

>sp|Q9Y6N9|USH1C\_HUMAN Harmonin OS=Homo sapiens GN=USH1C PE=1 SV=3

MDRKVAREFRHKVDFLIENDAEDYLYDVLRYHQTMDBAVLVGDLKLVINEPSRLPLFD  
AIRPLIPLKHQVEYDQLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLEFGCGLFISHLIK  
GQADSVGLQVGDEIVRINGYSISCTHEEVINLIRTKKTVSIKVRHIGLIPVKSSPDEPL  
TWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISLVGSRGLGCSISSGPIQKPGIFISH  
VKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLKSSRSLTISIVAAAGRELFMTD  
RERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAAEENERYRKEM

EQIVEEEEFKKQWEEDWGSKEQLLLPKTITAIEVHPVPLRKP KYDQGVEPELEPADDLDG  
GTEEQGEQDFRKYEEGFDPYSMFTPEQIMGKDVRLRLRIKKEGSLDLAEGGVDSPIGKVV  
VSAVYERGAERHGGIVKGDEIMAIN GKIVTDYTLAEAEALQKAWNQG GDWIDL VVAVC  
PPKEYDDELTF

>sp|060763|US01\_HUMAN General vesicular transport factor p115 OS=Homo sapiens GN=US01  
PE=1 SV=2

MNFLRGMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKYRLEVGIQ  
AMEHLIHVLQTDRSDSEIIIGYALDTLYNIIISNEEEEEEVENSTRQSEDLGSQFTEIFIKQ  
QENVTLTLLSLLEEFDFHVRWPGVKLLTSLKQLGPQVQQIILVSPMGVSRLMDLLADSRE  
VIRNDGVLLLQALTRSNGAIQKIVAFENAFERLLDIISEEGNSDGGIVVEDCLILLQNL  
KNNNSNQNFKEGSIYQRMKPWFVGDENSGWSAQKVTNLHMLQLVRVLVSPTNPPGAT  
SSCQKAMFQCGLLQQLCTILMATGVPADILTETINTVSEVIRGCQVNQDYFASVNAPSNP  
PRPAIVLLMSMVNERQPFVLRCAVLYCFQCFLYKNQKGQGEIVSTLLPSTIDATGNSVS  
AGQLLCGGLFSTDLSNWC AVALAHALQENATQKEQLLRVQLATSIGNPPVSLLQQCTN  
ILSQGSKIQTRVGLLMLLCTWLSNCP IAVTHFLHNSANVPFLTGQIAENLGEEQLVQGL  
CALLGISIYFNDNSLESYMEKELKQLIEKRIGKENFIEKLGFI SKHELYSRASQKPQPN  
FPSPEYMFDFHEFTKL VKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDNIVTHYKNMIR  
EQDLQLEELRQQVSTLKCQNEQLQTAVTQQVSQIQQHKDQYNLLKIQLGKDNQHQSSE  
GAQMNGIQPEEIGRLREEIEELKRNQELLQSQLTEKDSMIENMKSSQTSQTNEQSSAIVS  
ARDSEQVAELKQELATLKSQNSQSVETKLQTEKQELLQKTEAFKSVQEVQGETETIIA  
TKTTDVEGRLSALLQETKELKNEIKALSEERTAIKEQLDSSNSTIAILQTEKD KLELEIT  
DSKKEQD DLLVLLADQDQKILSLKNKLKDLGHPVEEEDLES GDQEDEDSEDPGKDLD  
HI

>sp|Q86V25|VASH2\_HUMAN Vasohibin-2 OS=Homo sapiens GN=VASH2 PE=1 SV=2

MTGSAADTHRCPHPKAGKTRSRSSHARPVSLATSGGSEEDKDGGLFHVNKS GFPI  
HTWERMWMHVAKVHPKGGEMVGAIRNA AFLAKPSIPQVPNYRLSMTIPDWLQAIQNYMKT  
LQYNHTGTQFFEIRKMRPLSGLMETAKEMTRESLP IKCLEAVILGIYLTNGQPSIERFPI  
SFKTYFSGNYFHHVVLGIYCNGRYGSLGMSRRAELMDKPLTFRTLSDLIFDFEDSYKKYL  
HTVKKVKIGLYVPHEPHSFQPIEWKQLVLNVSKMLRADIRKELEKYARDMRMKILKPASA  
HSPTQVRSRGKSLSPRRRQASPPRRLGRREKSPALPEKKVADLSTLNEVGYQIRI

>sp|095670|VATG2\_HUMAN V-type proton ATPase subunit G 2 OS=Homo sapiens GN=ATP6V1G2 PE=2  
SV=1

MASQSQGIQQLLQAEKRAAEKVADARKRKARRLKQAKEEAQMEVEQYRREREHEFQSKQQ  
AAMGSQGNLSAEVEQATRRQVQGMQSSQQRNRERVL AQLLGMVCDVRPQVHPNYRISA

>sp|Q14119|VEZF1\_HUMAN Vascular endothelial zinc finger 1 OS=Homo sapiens GN=VEZF1 PE=1  
SV=2

MEANWTAFLFQAHEASHHQQAQNSLLPLLSSAVEPPDQKPLLPITQKPQGAPETLK  
DAIGIKKEPKTSFVCTYCSKAFRDSYHLRRHESCHTG IKLVSRPKKPTPTTVVPLISTIA  
GDSSRTSLVSTIAGILSTVTTSSSGTNPSSSASTTAMPVTQSVKKPSKPVKKNHACEMCG  
KAFRD VYHLNRHKLSHSDEKPFECPI CNQRFKRKDRMTYHVRSHEGGITKPYTCSVCGKG  
FSRPDHL SCHVKHVHSTERPFKQCCTAAAFATKDRLRTHMVRHEGKVSCNICGKL LSAAY  
ITSHL KTHGQSQ SIN CNTCKQGISKTCMSEETS NQKQQQQQQQQQQQQQQQQQHVTSWP  
GKQVETLRLWEEAVKARKKEAANLCQTSTAATPVTLTTPFSITSSVSSGTMSNPVTVAA  
AMSMRSPVNVSSAVNITSPMNIGHPVTTITSPLSMTSPLTLTTPVNLPTPVTAPVNIAHPV

TITSPMNLPTPMTLAAPLNIAMRPVESMPFLPQALPTSPPW

>sp|Q7Z5L0|VM01\_HUMAN Vitelline membrane outer layer protein 1 homolog OS=Homo sapiens  
GN=VM01 PE=1 SV=1

MERGAGAKLLPLLLLLRATGFTCAQTDGRNGYTAVIEVTSGGPWGDWAWPEMCPDGFFAS  
GFSLKVEPPQGIPGDDTALNGIRLHCARGNVLGNTHVVESQSGSWGWESEPLWCRGGAYL  
VAFSLRVEAPTTLGDNATAANNVRFRCSDGEELQGPGLSWGDFGDWSDHCPKGACGLQTKI  
QGPRGLGDDTALNDARLFCCRS

>sp|Q8NFZ6|VN1R2\_HUMAN Vomeronasal type-1 receptor 2 OS=Homo sapiens GN=VN1R2 PE=2 SV=2

MTHTLYPTPFALYPINISAAWHLGPLVSCFVSNKYQCSLAFGATTGLRVLVVVVPQTQL  
SFLSSLCLVSLFLHSLVSAHGEKPTKPVGLDPTLFQVVVGILGNFSLLYYMFYFRGYK  
PRSTDILRLHTVADSLVILSKRIPETMATFGLKHFDNYFGCKFLLYAHRVGRGVSIGST  
CLLSVFQVITINPRNSRWAEMKVKAPTYIGLSNILCWAHMLVNAIFPIYTTGKWSNNNI  
TKKGDLGYCSAPLSDEVTKSVYAALTSFHDVLCGLMLWASSSIVLVLYRHKQQVQHICR  
NNLYPNSSPGNRAIQSILALVSTFALCYALSFITVYVYALFDNSSWWLVNTAALIIACFP  
TISPFVLMCRDPSRSLCSICRRNRFFHDFRKM

>sp|P63121|VP113\_HUMAN Endogenous retrovirus group K member 113 Pro protein OS=Homo sapiens  
GN=HERVK\_113 PE=3 SV=1

WASQVSENRPVCKAIIQGKQFEGLVDTGADVSIIALNQWPKNWPKQKAVTGLVGISTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPLNLWGRDLLQQWGEITMPAPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKVPVEAKINQEREGIGYPF

>sp|Q709C8|VP13C\_HUMAN Vacuolar protein sorting-associated protein 13C OS=Homo sapiens  
GN=VPS13C PE=1 SV=1

MVLESVADLLNRFLGDYVENLNKSQLKLGIWGGNVALDNLQIKENALSELDPFVKVAG  
QIDKLTLPKIPWKNLYGEAVVATLEGLYLLVVPGASIKYDAVKEEKSLQDVKKELSRIEE  
ALQKAAEKGTHSGEFYIGLENFVYKDIKPGRRKKKKHFKKPFKGLDRSKDKPEAKKD  
TFVEKLATQVIKNVQVKITDIHIKYEDDVTDPKRPLSFGVTLGELSLLTANEHWTPCILN  
EADKIIYKLIRLDSLSAYWNVNCSMSYQRSREQILDQLKNEILTSGNIPPNYQYIFQPIS  
ASAKLYMPYAESELKTPKLDNCNIEIQNIAIELTKPQYLSMIDLLESVDYMRNAPYRKY  
KPYLPLHTNGRRWWKYAIDSVLEVHIRRYTQMWSWSNIKKHRQLLSYKIAYKNKLTQSK  
VSEEQKEIQDLEKTLDFVNIILARQQAQVEVIRSGQKLKKKSADTGEKRGGWFSGLWGK  
KESKKKDEESLIPETIDDLMTPEEKDKLFTAIGYSESTHNLTLPKQYVAHIMTLKLVSTS  
VTIRENKNIPEILKIQIIGLGTQVSQRPGAQALKVEAKLEHWYITGLRQQDIVPSLVASI  
GDTTSSLLKIKFETNPEDSPADQTLIVQSQPVEVIYDAKTVNAVVEFFQSNKGLDLEQIT  
SATLMKLEEIKERTATGLTHIIETRKVLDLRINLKPSYLVVPQTGFHHEKSDLLILDFTGT  
FQLNSKDQGLQKTTNSSLEEIMDKAYDKFDVEIKNVQLLFARAEETWKKCRFQHPSTMHI  
LQPMDIHVELAKAMVEKDIRMARFKVSGGLPLMHVRISDQKMKDVLMLNSIPLPQKSSA  
QSPERQVSSIPIISGGTKLLGTSLLLDTVESESDDEYFDAEDGEPQTCKSMKGSELKKA  
AEVPNEELINLLKFEIKEVILEFTKQQKEEDTILVFNVTLQGTATMRTFDLTVVSYLK  
KISLDYHEIEGSKRKPLHLISSDKPGLDLLKVEYIKADKNGPSFQTAFGKTEQTVKVAF  
SSLNLLQTQALVASINYLTIIIPSDQSISVAKEVQISTEKQKKNSTLPKAIIVSSRSDSD  
IIDFRLFAKLNAFCVIVCNEKNNIAEIKIQGLDSSSLQSRKQSLFARLENIIVTDVDPK  
TVHKKAVSIMGNEVFRFNLDLYPDATEGDLYTDMSKVDGVLNLVGCIIQIVYLHKFLMSL  
LNLNLFQTAKESSAATAQAERAATSVKDLAQRSFRVSNIDLKAPVIVIPQSSISTN  
AVVVDLGLIRVHNQFSLVSDEDYLNPPVIDRMDVQLTKLTLYRTVIQPGIYHPDIQLLHP

INLEFLVNRNLAASWYHKVPVVEIKGHLDSMNVSLNQEDLNLLFRILTENLCEGTEDLDK  
VKPRVQETGEIKEPLEISISQDVHDSKNTLTGVEEIRSVDIINMLLNFEIKEVVVTLMK  
KSEKGRPLHELNLQLGMEAKVKTYDMTAKAYLKKISMQCFDFTDSKGEPLHIINSSNV  
TDEPLLKMLLTKADSDGPEFKTIHDSKQRLKVSFASDLVLHLEALLSFMDFLSSAAPF  
SEPSSSEKESELKPLVGESRSIAVKAVSSNISQKDVFDLKITAELNAFNVFVCDQKCNI  
DIKIHGMDASISVKPKQTDVFARLKDIIVMNVDLQSIHKKAVSILGDEVFRFQLTLYPDA  
TEGEAYADMSKVDGKLSFKVGCIQIVYVHKFFMSLLNFLNNFQTAKEALSTATVQAAERA  
ASSMKDLAQKSFRLMDINLKAPVIIIPQSSVSPNAVIADLGLIRVENKFSLVPMEHYS  
PPVIDKMNIETQLKLSRTILQASLPQNDIEILKPVNMLLSIQRNLAAAWYVQIPGMEIK  
GKLKPMQVALSEDDLTVLMKILLENLGEASSQPSPTQSVQETVRVRKVDVSSVPDHLKEQ  
EDWTDKLSMNQIVSLQFDFHFESLSIILYNNDINQESGVAFHNSFQLGELRLHLMAS  
GKMFKDGSMNVSVLKTCTLDLREGIERATSRMIDRKNQDNNSSMIDISYKQDKNGSQ  
IDAVLDKLYVCASVEFLMTVADFFIKAVPQSPENVAKETQILPRQTATGKVKIEKDDSVR  
PNMTLKAMITDPEVVFVASLTKADAPALTASFQCNLSLSTSKLEQMMEASVRDLKVLACP  
FLREKRGKNITTVLQPCSLFMEKCTWASGKQNNIMVKEFIIKISPIILNTVLTIMAALS  
PKTKEDGSKDTSKEMENLWGKISINDYNTWFLGVDTEITESTFKGIEHSLIEENCGVVV  
ESIQVTLECGLGHRTVPLLLAESKFSGNIKNWTSLMAAVADVTQLQVHYNEIHAVWEPLI  
ERVEGKRQWNLRLDVKNPVQDKSLLPGDDFIPEPQMAIHSSGNTMNITISKSLNVFN  
NLAKGFSEGTASTFDYSLKDRAPFTVKNAGVPIKVKPNCNLRVMGFPEKSDIFDVDAGQ  
NLELEYASMVPSSQGNLSILSRQESSFFTLTIVPHGYTEVANIPVARPGRRLYNVRNPNA  
SHSDSVLVQIDATEGNKVITLRSPLQIKNHFSIAFIIYKFVKNVKLLERIGIARPEEEFH  
VPLDSYRCQLFIQPAGILEHQYKESTTYISWKEELHRSREVRCLQCPSVEVSFLPLIVN  
TVALPDELSYICTHGEDWDVAYIIHLYPSLTLRNLPLYSLRYLLEGTAETHELAEGSTAD  
VLHSRISGEIMELVLVKYQGKNWNGHFRIRDTLPEFFPVCFSSDSTEVTTVDLVHVRI  
GSRMVLVSFSPYWLINKTTRVLQYRSEDIHVKHPADFRDIIILFSFKKNIFTKNKVQLKI  
STSAWSSFSLDTVGSYGCVKPCANNMEYLVGVSIMSSFNLSRIVTLTPFCTIANKSSL  
ELEVGEIASDGSMPNTKNWYIASSECLPFWPESLSGKLCVRVVGCEGSSKPFYNRQDNG  
TLLSLEDLNGGILVDVNTAEHSTVITFSDYHEGSAPALIMNHTPWDILTYKQSGSPEEMV  
LLPRQARLFAWADPTGRKLWTWYAAVGEHDLKDGCGQFPYDANIQIHWVSFLDGRQR  
VLLFTDDVALVSKALQAEEMEADYEITLSLHSLGLSLVNNEKQEVSYIGITSSGVVWE  
VKPKQKWKPFQKQIILLESQYQKHQISRDHGWIKLDNNFEVNFDKDPMEMRLPIRSPIK  
RDFLSGIQIEFKQSSHQRSLRARLYWLQVDNQLPGAMFPVVFHPVAPPKSIALDSEPKPF  
IDVSVITRFNEYSKVLQFKYFMVLIQEMALKIDQGFLGAIIALFTPTTDPEAERRTKLI  
QQDIDALNAELMETSMTDMSILSFFEHFHISPVKLHLSLSLGSGGEESDKEKQEMFAVHS  
VNLLKSGIGATLTDVDDLIFKLAYYEIRYQFYKRDQLIWSVVRHYSEQFLKQMYVLVLGL  
DVLGNPFGLIRGLSEGVEALFYEPFQGAVQGPEEFAEGLVIGVRSLFGHTVGAAGVVS  
ITGSVGKGLAAITMDKEYQQKRREELSRQPRDFGDSLARGKGFLRGVVGVTGIIITKPV  
EGAKKEGAAGFFKGIGKGLGAVARPTGGIVDMASSTFQGIQRAAEESTEEVSSLRPPRLI  
HEDGIIIRPYDRQESEGDLENHIKKLEGETYRYHCAIPGSKKTIILMTNRRVLCIKEVE  
ILGLMCDWQCPFEDFVFPSPVSENVLKISVKEQGLFHKKDSANQGCVRKVYLKDTATAE  
RACNAIEDAQSTRQQQKLMKQSSVRLLRPQLPS

>sp|P10265|VPK10\_HUMAN Endogenous retrovirus group K member 10 Pro protein OS=Homo sapiens  
GN=ERVK-10 PE=1 SV=2  
WASQVSENRPVCKAIIQGKQFEGLVDTGADVSIILNQWPKNWPQKAVTGLVGIGTASE



VYQSMEILHCLGPDNQESTVQPMITSIPLNLWGRDLLQQWGAEITMPAPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKVPVEAKINQEREGIGYPF

>sp|P63129|VPK24\_HUMAN Endogenous retrovirus group K member 24 Pro protein OS=Homo sapiens  
GN=ERVK-24 PE=3 SV=1

WASQVSENRPVCKAIIQGKQFEGLVDTGADVSIIALNQWPKNWPQKAVTGLVGIGTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPLNLWGRDLLQQWGAEITMPAPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKIPFEAKINQKREGIGYPF

>sp|Q9UN37|VPS4A\_HUMAN Vacuolar protein sorting-associated protein 4A OS=Homo sapiens  
GN=VPS4A PE=1 SV=1

MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKC  
VQYLDRAEKLKDYLSKEKHGKKPVKENQSEGKGSDDSEGDNPEKKKLQEQLMGAVVME  
KPNIRWNDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAV  
ATEANNSTFFSVSSSDLMSKWLGESEKLVKNLFELARQHKPSIIFIDEVDSLCSRNENE  
SEAARRIKTEFLVQMVGNNNDGTLVLGATNIPWVLDSAIRRRFEKRIYIPLPEEAARA  
QMFRLHLGSTPHNLTDANIHELARKTEGYSGADISIIVRDSLMQPVKQVSATHFKKVCG  
PSRTNPSMMIDLLTPCSPGDPGAMEMTWMDVPGDKLLEPVVCMSDLRLSLATTRPTVNA  
DDLLKVKKFSDFGQES

>sp|075351|VPS4B\_HUMAN Vacuolar protein sorting-associated protein 4B OS=Homo sapiens  
GN=VPS4B PE=1 SV=2

MSSTSPNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQSIRA  
KCTEYLDRAEKLKEYLKNKEKKAQKPVKEGQPSPADEKGNDSGEGESDDPEKKKLQNQL  
QGAIVIERPNVWSDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGK  
SYLAKAVATEANNSTFFSISDDLVSXWLGESEKLVKNLFLARENKPSIIFIDEIDSLC  
GSRSENESEAARRIKTEFLVQMVGVDNDGILVLGATNIPWVLDSAIRRRFEKRIYIPL  
PEPHARAAMFKLHLGTTQNSLTEADFRELGRKTDGYSGADISIIVRDALMQPVKQVSAT  
HFKKVRGSPRADPNHLVDDLLTPCSPGDPGAITEMTWMDVPGDKLLEPVVMSDMLRSLSN  
TKPTVNEHDLLKLLKFTDFGQEG

>sp|000507|USP9Y\_HUMAN Probable ubiquitin carboxyl-terminal hydrolase FAF-Y OS=Homo sapiens  
GN=USP9Y PE=2 SV=2

MTAITHGSPVGGNDSQGQVLDGQSQHLLFQQNQTSPPDSSNENSVATPPPEEQGQDAPPQ  
HEDEEPAFPHTELANLDDMINRPRWVVPVLPKGELEVLLEAAIDLSVKGLDVKSEACQRF  
FRDGLTISFTKILMDEAVSGWKFEIHRCIINNTHRLVELCVAKLSQDWFPLELLAMALN  
PHCKFHIYNGTRPCELISSNAQLPEDELFASSDPRSPKGWLDLINKFGTLNGFQILHD  
RFFNGSALNIQIIAALIKFPFGQCYEFLSQHTLKKYFIPVIEIVPHLLENLTDEELKKEAK  
NEAKNDALSMIISLKNLASRISGQDETINKLEIFRLKMILRLQLISSFNGKMNALNEIN  
KVISSVSYYTHRHSNPEEEEWLTAEARMAEWIQNNILSIVLQDSLHQPQYVEKLEKILRF  
VIKEKALTQLDLDNIWAAQAGKHEAIVKNVHDLAKLAWDFSPGQLDHLDFCFKASWTNA  
SKKQREKLELIRRLAEDDKDGMVMAHKVLNLLWNLAQSDDPVDIMDLALSAHIKILDYS  
CSQDRDAQKIQWIDHFIIEELRTNDKWVIPALKQIREICSLFGEASQNLSQTQRSPIFYR  
HDLINQLQQNHVLTVAENLATYMNSIRLYAGDHEDYDPQTVRLGSRYSHVQEVQERLN  
FLRFLKDGQLWLCAPQAKQIWKCLAENAVYLCREACFKWYSKLMGDEPDLPDINKDF  
FESNVLQLDPSLLTENGMKCFERFFKAVNCRERKLIARRSYMMDDLELIGLDYLWRVVI  
QSSDEIANRAIDLKLEIYTNLGPRLKANQVVIHEDFIQSCFDRLKASYDTLCVFDGDKNS  
INCARQEAI RMVRVLTVIKEYINECDSDYHKERMILPMSRAFRGKHLSLIVRFPNQGRQV

DELDIWSHTNDTIGSVRRRCIVNRIKANVAHKKIELFVGGELIDSEDDRKLIGQLNLKDKS  
LITAKLTQINFNMPPSPDSSSDSSTASPGNHRNHYNDGPNLEVESCLPGVIMSVHPRYIS  
FLWQVADLGSNLNMPPLRDGARVLMKLMPPDRTAVEKLRAVCLDHAKLGEGKLSPLDSL  
FFGPSASQVLYLTEVVYALLMPAGVPLTDGSSDFQVHFLKSGGLPLVLSMLIRNNFLPNT  
DMETRRGAYLNALKIAKLLTAIGYGHVRAVAEACQPVDGTDPIQTINQVTHDQAVVLQ  
SALQSI PNPSSECVLRNESILLAQEISNEASRYMPDICVIRAIQKIIWASACGALGLVFS  
PNEEITKIYQMTTNGSNKLEVEDEQVCCEALEVMTLCFALLPTALDALSKEKAWQTFIID  
LLLHCPSKTVRQLAQEQFFLMCTRCCMGHRPLLFFITLLFTILGSTAREKGKYSGDYFTL  
LRHLLNYAYNGNINIPNAEVLLVSEIDWLKRIRDNVKNTGETGVEEPILEGHLGVTKELL  
AFQTSEKKYHFGCEKGGANLIKELIDDFIFPASKVYLQYLRSGELPAEQAI P VCSSPVTI  
NAGFELLVALAIGCVRNLKQIVDCLTEMYMGTAITTCCEALTEWEYLPPVGRPPKGFVG  
LKNAGATCYMNSVIQQLYMIPSIRNSILAIEGTGSDLHDDMFGEKQDESNSVDPRDDVF  
GYPHQFEDKPALSKTEDRKEYNIGVLRHLQVIFGHLAASQLQYYVPRGFWKQFRLWGEV  
NLREQHDALEFFNSLVDSLDEALKALGHPA ILSKVLGGSFADQKICQGCPHRYECEESFT  
TLNVDIRNHQNLDSLEQYIKGDLLEGANAYHCEKCDKKVDTVKRLLIKKLPRVLAIQLK  
RFDYDWERECAIKFNDYFEFPRELDMPYTVAGVANLERDNVNSENELIEQKEQSDNETA  
GGTKYRLVGLVHSGQASGGHYYSYI IQRNGKDDQTDHWYKFDDGDVTECKMDDDEEMKN  
QCFGGEYMGEVFDHMMKRMSYRRQKRWWNAYILFYEQMDMIDEDDEMIRYISELT IARPH  
QIIMSPA IERSVRKQNVKFMHNRLQYSLEYFQFVKLLTCNGVYLNPA PGQDYLLPEAEE  
ITMISIQLAARFLFTTGFTTKIVRGPASDWYDALCVLLRHSKNVRFWFTHNVLFNVSNR  
FSEYLLECPSAEVRGAFAKLIVFIAHFSLQDGSCSPFASP GPSSQACDNLSDHLLRA  
TLNLLRREVSEHGHLQQYFNLFVMYANLGVAEKTQLLKLNPATFMLVSLDEGPGPIK  
YQY AELGKLYSVVSLIRCCNVSTMQSSINGNPPLPNPFGDLNLSQPIMPIQQNVLDIL  
FVRTSYVKKI IEDCSNSEDTIKLLRFCSWENPQFSSTVLSSELLWQVAYSITYELRPYLDL  
LFQILLIEDSWQTHRIHNALKGIPDDRDLFDTIQRSKNHYQKRAYQCIKCMVALFSSCP  
VAYQILQGNGDLKRKWTWAVEWLGDLELRRPYTGNPQYSYNNWSPPVQSNETANGYFLER  
SHSARMTLAKACELCP EEEPPDDQDAPDEHEPSPSEDAPLYPHSPASQYQQNNHVHGQPYT  
GPAAHHLNNPQKTGQRTQENYEGNEEVSSPQMKDQ

>sp|Q5T230|UTF1\_HUMAN Undifferentiated embryonic cell transcription factor 1 OS=Homo sapiens GN=UTF1 PE=1 SV=1

MLLRPRRPPPLAPPAPPSPASDPPEPRTPGDAPGTPPRRPASPSALGELGLPVSPGSAQR  
TPWSARETELLLTLLQPAVWRALLLDRRQALPTYRRVSAALAAQQQVRRTPAQCR RRYKF  
LKDKFREAHGQPPGPFDEQIRKLMGLLDNGRKRPRRRSPGSGRPQRARRPVNAHAPAP  
SEP DATPLPTARDRDADPTWTLRFSPSPPKSADASPAGSPAPAPTALATCIPEDRAPV  
RGPGSPPPPPAREDPDSPPGRPEDCAPPPAAPP SLNTALLQTLGHLGD IANILGPLRDQL  
LTLNQHV EQLRGAFDQTVSLAVGFILGSAAAERGVLRDPCQ

>sp|Q9BRU9|UTP23\_HUMAN rRNA-processing protein UTP23 homolog OS=Homo sapiens GN=UTP23 PE=1 SV=2

MKITRQKHAKHLGFFRNNFGVREPYQILLDGTFCQAALRGRIQLREQLPRYLMGETQLC  
TTTCVLKELET LGKDLYGAKLIAQKCQVRNCPHFKNVSGSECLLSMVEEGNPHHYFVAT  
QDQNL SVKVKKKPGVPLMFI IQNTMVLDKPSPKTIAFVKAVESGQLSVHEKESIKHLKE  
EQGLVKNTEQSRRKRKKISGPNPLSCLKKKKKAPDTQSSASEKKRKRKRIRNRSNPKVL  
SEKQNAEGE

>sp|O95399|UTS2\_HUMAN Urotensin-2 OS=Homo sapiens GN=UTS2 PE=1 SV=1

MYKLASCCLLFIGFLNPLLSPLLLDSREISFQLSAPHEDARLTPEELERASLLQILPEML  
GAERGDILRKADSSTNIFNPRGNLRKFQDFSGQDPNILLSHLLARIWKPYKKRETPDCFW  
KYCV

>sp|Q99990|VGLL1\_HUMAN Transcription cofactor vestigial-like protein 1 OS=Homo sapiens  
GN=VGLL1 PE=1 SV=1

MEEMKKTAIRLPKGKQKPIKTEWNSRCVLFTYFQGDISSVVDEHFSRALSNIKSPQELTP  
SSQSEGVMKNDSDMSPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLA  
RRASVRPGELWHFSSLAGTSSLEPGYSHPPARHLVPEPQPDGKREPLLSLLQQDRCLAR  
PQESAARENGNPGQIAGSTGLLFLNPPGSVHYKKLYVSRGSASTSLPNETLSELETPGKY  
SLTPPNHWGHPHYLQHL

>sp|Q9P2U8|VGLU2\_HUMAN Vesicular glutamate transporter 2 OS=Homo sapiens GN=SLC17A6 PE=2  
SV=1

MESVKQRILAPGKEGLKNFAGKSLGQIYRVLEKKQDTGETIELTEDGKPLEVPERKAPLC  
DCTCFGLPRRYIIAIMSGLGFCISFGIRCNLGVAIVDMVNNTIHRGGKVIKEKAKFNWD  
PETVGMIHGSFFWGYIITQIPGGYIASRLAANRVFGAAILLTSTLNMLIPSAARVHYGCV  
IFVRILQGLVEGVTPACHGIWSKWAPPLERSRLATTSFCGSYAGAVIAMPLAGILVQYT  
GWSSVFYVYGSFGMVWYMFLLVSYESPAKHPTITDEERRYIEESIGESANLLGAMEKFK  
TPWRKFFTSMPPVYAIIVANFCRSWTFYLLISQPAYFEEVFGFEISKVGMLSAPHLVMT  
IIVPIGGQIADFLRSKQILSTTTVRKIMNCGFGMEATLLLVVGYSHTRGVAISFLVLAV  
GFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPPIVGAMTKNKSREEWQYVF  
LIAALVHYGGVIFYAIFASGEKQPWADPEETSEEKCGFIHEDELDEETGDITQNYINYGT  
TKSYGATTQANGWPSGWEKKEEFVQGEVQDSHSYKDRVDYS

>sp|Q6RSH7|VHLL\_HUMAN Von Hippel-Lindau-like protein OS=Homo sapiens GN=VHLL PE=1 SV=1  
MPWRAGNGVGLEAQAQTQEAGPEEYCQEELGAEEMAARAAPVLRSVNSRELSRIICN  
HSPRIVLPVWLNYYGKLLPYLTLLPGRDFRIHNFRSHPWLFDRDARTHDKLLVNQTELFVP  
SSNVNGQPVFANITLQCIP

>sp|P09327|VILI\_HUMAN Villin-1 OS=Homo sapiens GN=VIL1 PE=1 SV=4

MTKLSAQVKGSLNITTPGLQIWRIEAMQMPVPSPSTFGSFFDGCYIILAIHKTASSLSY  
DIHYWIGQDSSLDEQGAAAITYTQMDDFLKGRAVQHREVQGNESAEFRGYFKQGLVIRKG  
GVASGMKHVETNSYDVQRLHVKGKRNVVAGEVEMSWKSFNRGDVFLDLGKLIQWNGP  
ESTRMERLRGMTLAKEIRDQERGGRTYVGVVDGENELASPKLMEVMNHVLGKRRELKAAV  
PDTVVEPALKAALKLYHVSDEGNLVVREVATRPLTQDLLSHEDCYILDQGGLKIYVWKG  
KKANEQEKKGAMSHALNFIKAKQYPPSTQVEVQNDGAESAVFQQLFQKWTASNRTSGLGK  
THTVGSVAKVEQVKFDATSMHVKPVQAAQKQMVDDGSGEVQVWRIENLELVPVDSKWLGH  
FYGGDCYLLLYTYLIGEKQHLYLVWQGSQASQDEITASAYQAVILDQKYNGEVPQIRVP  
MGKEPPHLMISIFKGRMVVYQGGTSRTNNLETGPSTRLFQVQGTGANNTKAFEVPARANFL  
NSNDVFVLKTQSCCYLWCGKGCSGDEREMAKMVADTISRTEKQVVVEGQEPANFWMALGG  
KAPYANTKRLQEENLVITPRLFECSNKTGRFLATEIPDFNQDDLEEDDVFLLDVWDQVVF  
WIGKHANEEKKAAATTAQEYLKTHPSGRDPETPIIVVKQGHEPPTFTGWFLAWDPFKWS  
NTKSYEDLKAELGNSRDWSQITAEVTSKVDVFNANSNLSSGPLIFPLEQLVNKPVEEL  
PEGVDPSPRKEEHLSEDFTQAFGMTPAAFSALPRWKQQLKKEKGLF

>sp|Q69YN4|VIR\_HUMAN Protein virilizer homolog OS=Homo sapiens GN=KIAA1429 PE=1 SV=2

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ETSPHTFQLDLFFNNVSKPSAPVFDRLGSLEYDENTSIIIFRPNSKVNTDGLVLRGWYNCL

TLAIYGSVDRVISHDRDSPPPPPPPPPPPQPQPSLKRNPKHADGEKEDQFNGSPPRPQPR  
GPRTTPGPPPPDDDEDDPVPLPVSGDKEEDAPHREDYFEPISPDNRNSVPQEGQYSDEGEV  
EEEQEEGEDEDDVDVEEEDEDEDDRRRTVDSIPEEEEDEEEEGEEDDEEGDDGYEQ  
ISSDEGDIADLERETFKYPNFVEYTAEDLASVPPMTYDPYDRELVPLLYFSCPYKTTFE  
IEISRMKDQGPDKENSGAIEASVKLTELLDLYREDRGAKWVTALEEIPSLIIKGLSYLQL  
KNTKQDSLGLVDWTMQALNLQVALRQPIALNVRQLKAGTKLVSSLAECGAQGVGTGLLQA  
GVISGLFELLFADHVSSSLKLNALFALDSVISMTEGMEAFLRGRQNEKSGYQKLELILL  
DQTVRVVTAGSAILQKCHFYEVLSEIKRLGDHLAEKTSSLPNHSEPDHDTAGLERTNPE  
YENEVEASMDMDLLESSNI SEGEIERLINLLEEVFHLMETAPHTMIQQPVKSFTMARIT  
GPPERDDPYPVLFRYLHSHHFLELVTLLSIPVTSAHPGVLQATKDVLFQAQSQKGLLF  
FMSEYEATNLLIRALCHFYDQDEEGLQSDGVIDDAFALWLQDSTQTLQCITELFSHFQR  
CTASEETDHSLLGLTHNLYLITFNPVGRSAVGHVFSLEKNLQSLITLMEYYSKEALGDS  
KSKKSVAYNYACILILVVVQSSSDVQMLEQHAASLLKLCKADENNAKLQELGKWL EPLKN  
LRFEINCIPNLIEYVKQIDNLMTPEGVGLTTALRVLCNVACPPPPVEGQQKDLKWNLA  
V  
IQLFSAEGMDTFIRVLQKLNSILTPWRHLVNMGTTLHRVTTISMARCTLTLKTMLTEL  
LRGGSFEFKDMRVPSALVTLHMLLCSIPLSGRLDSDEQKIQNDIIDILLTFTQGVNEKLT  
ISEETLANNTWSMLKEVLSSILKVPEGFFSGLILLSELLPLPLMQTTQVIEPHDISVA  
LNTRKLWSMHLHVQAKLLQEI VRSFSGTTCQPIQHMLRRICVQLCDLASPTALLIMRTVL  
DLIVEDLQSTSEDKKQYTSQTTRLLALLDALASHKACKLAILHLINGTIKGDERYAEIF  
QDLLALVRSPGDSVIRQQCVEYVTSILQSLCDQDIALILPSSSEGSISELEQLSNSLPNK  
ELMTSICDCLLATLANSESSYNCLLTCVRTMMFLAEHDYGLFHLKSSLRKNSSALHSLK  
RVVSTFSKDTGELASSFLEFMRQILNSDTIGCCGDDNGLMEVEGAHTSRTMSINAAELKQ  
LLQSKEESPENLFLELEKLVLEHSKDDDNLD SLLDSVVGLKQMLESSGDPLPLSDQDVEP  
VLSAPESLQNLFNNTAYVLADVMDDQLKSMWFTPFQAEIDTDLVLKVDLIELSEKCC  
SDFDLHSELERSFLSEPSSPGRTKTKGFKLGKHKHETFITSSGKSEYIEPAKRAHVVP  
PRGRGRGGFGGQIRPHDIFRQRKQNTSRPPSMHVDDFVAESKEVVPQDGIPPPKRPLKV  
SQKISSRGGFSGNRGGRGAFHSQNRFFTPASKGNYSRREGTRGSSWSAQNTPRGNYNES  
RGGQSNFNRGLPLPLRPLSSTGYRPSPRDRASRGRGGLGPSWASANS GSGSGRKFVSGG  
SGRGRHVRSFTR

>sp|Q9H7M9|VISTA\_HUMAN V-type immunoglobulin domain-containing suppressor of T-cell  
activation OS=Homo sapiens GN=C10orf54 PE=1 SV=3

MGVPTALEAGSWRWGSLFALFLAASLGPVAAFKVATPYSLYVCPEGQNVTLTCRLGVP  
DKGHDVTFYKTWYRSSRGEVQTCSERRPIRNLTFQDLHLHHGGHQAANTSHDLAQRHGLE  
SASDHHGNFSITMRNLTLDSGLYCCLVVEIRHHHSEHRVHGAMELQVQTGKDAPSNCVV  
YPSSSQDSENITAAALATGACIVGILCLPLILLLVYKQRQAASNRAQELVRMDSNIQGI  
ENPGFEASPPAQGIPEAKVRHPLSYVAQRQPSESGRHLLSEPSTPLSPPGPGDVFFPSLD  
PVPDSPNFVI

>sp|Q8N0U8|VKORL\_HUMAN Vitamin K epoxide reductase complex subunit 1-like protein 1  
OS=Homo sapiens GN=VKORC1L1 PE=1 SV=2

MAAPVLLRVSVPRWERYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPWVKCSA  
ALASRWGRGFGLGSI FGKDGVLNQNSVFGILIFYILQLLLGMTASAVAALILMTSSIMS  
VVGSLYLAYILYFVLKEFCIIICIVTYVLNFLLLIINYKRLVYLNEAWKRQLQPKQD

>sp|Q96AW1|VOPPI\_HUMAN Vesicular, overexpressed in cancer, prosurvival protein 1 OS=Homo  
sapiens GN=VOPPI PE=2 SV=1

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRALSIQRL  
WYFWFLMMGVLFCCGAGFFIRRRMYPPPLIEEPAFNVSYTRQPPNPGGAQQGPPPYT  
DPGGPGMNPVGNMAMAFQVPPNSPQGSVACPPPPAYCNTPPPPYEQVVKAK

>sp|Q86XT2|VP37D\_HUMAN Vacuolar protein sorting-associated protein 37D OS=Homo sapiens  
GN=VPS37D PE=1 SV=2

MYRARAARAGPEPGSPGRFGILSTGQLRDLLQDEPKLDRIVRLSRKFQGLQLEREACLAS  
NYALAKENLALRPREMGRAALAIKYQELREVAENCADKLQRLEESMHRWSPHCALGWLQ  
AELEEAQEAEQMEQQLLGEQSLEAFQAFQGRALAHLLRRTQAEKLQELLRRRERSAQ  
PAPTSAADPPKSFPAAVLPTGAARGPPAVPRSLPPLDSRPVPLKSGPCPLGPAPLLS  
PRPSQPEPPHR

>sp|Q9BRG1|VPS25\_HUMAN Vacuolar protein-sorting-associated protein 25 OS=Homo sapiens  
GN=VPS25 PE=1 SV=1

MAMSFEPWPQYRFPFFFTLQPNVDTRQQLAAWCSLVLSFCRLHKQSSMTVMEAQESPLF  
NNVKLQRKLPVESIQIVLEELRKKGNLEWLDKSKSSFLIMWRRPEEWGKLIYQWVSRSGQ  
NNSVFTLYELTNGEDTEDEEFHGLDEATLLRALQALQQEHKAEIITVSDGRGVKFF

>sp|Q96JC1|VPS39\_HUMAN Vam6/Vps39-like protein OS=Homo sapiens GN=VPS39 PE=1 SV=2

MHDAFEPVPILEKLPLQIDCLAWEELLVGTKQGHLLEYRIRKDVVPADVSPESGSCN  
RFEVTELEKSNKNFSKKIQIHVVSQFKILVSLENNIYVHDLLTFQQITTVSKAKGASLF  
TCDLQHTETGEEVLRMCVAVKKKLQLYFWKDREFHELQGDFSVPDVPKSMAWCENSICVG  
FKRDYILIRVDGKSIKELFPTGKQLEPLVAPLADGKAVGQDDLTVVLEEGICTQKCA  
LNWTDIPVAMEHQPPYIIAVLPRYVEIRTFEPRLLVQSIELQRPRFITSGGSNIIVASN  
HFVWRLIPVPMATQIQQLQDKQFELALQLAEMKDDSDSEKQQQIHHIKNLYAFNLCQK  
RFDESMQVFAKLGTDPHTVMGLYPDLLPTDYRKQLQYPNPLPVLSGAELEKAHLALIDYL  
TQKRSQLVKKLNDSDHQSSTSPLMEGTPTIKSKKKLLQIIDTTLKCYLHTNVALVAPLL  
RLENNHCHIEESEHVLKKAHKYSELIILYEKKGLHEKALQVLVDQSKKANSPLKGHERTV  
QYLQHLGTENLHLIFSYSVWVLRDFPEDGLKIFTEDLPEVESLPRDRVLGFLIENFKGLA  
IPYLEHI IHVWEETGSRFHNCILYCEKVQGLMKEYLLSFPAGKTPVPAGEEEGELGEY  
RQKLLMFLEISSYDPGRLICDFPFDDLLEERALLGRMGKHEQALFIYVHILKDRMAE  
EYCHKHYDRNKDGNKVYLSLLRMYLSPPSIHCLGPIKLELLEPKANLQAALQVLELHHS  
KLDTTKALNLLPANTQINDIRIFLEKVL EENAQKKRFNQVLKNLLHAEFLRVQEERILHQ  
QVKCIITEEKVCMVCKKIGNSAFARYPNGVVVHYFCSKEVNPADT

>sp|P49754|VPS41\_HUMAN Vacuolar protein sorting-associated protein 41 homolog OS=Homo sapiens  
GN=VPS41 PE=1 SV=3

MAEAEQETGSLEESTDESEEEEESEEPKLYERLSNGVTEILQKDAASCMTVHDKFLAL  
GTHYGKVVLLDVQGNITQKFDVSPVKINQISLDESGEHMGVCSGDKQVVFGLYSGEEFH  
ETFDCEPIKIIAVHPHFVRSSCKQFVTGGKKLLLFERSWMNRWKSAVLHEGEGNIRSVKWR  
GHLLIAWANNMGVKIFDIISKQRITNVPRDDISLRPDMYPCSLCWKDNVTLLIIGWGTSVKV  
CSVKERHASEMRDLSPRYVEIVSQFETEFYISGLAPLCDQLVVL SYVKEISEKTEREYCA  
RPRLDIIQPLSETCEEISSDALTVRGFQENECRDYHLEYSEGESLFYIVSPRDVVAKER  
DQDDHDWLLLEKKKYEALMAAEISQKNIKRHKILDIGLAYINHLVERGDYDIAARKCQK  
ILGKNAALWEYEVYKFKEIGQLKAISPYLPRGDPVLKPLIYEMILHEFLES DYEGFATLI  
REWPGDLYNNSVIVQAVRDHLKKDSQNKTLKTLAELYTDKNYGNAL E IYTLRHKDV  
QLIHKHNL FSSIKDKIVLLMDFDSEKAVDMLLDNEDKISIKKVVEELED RPQLHVYLHK  
LFRDHHKGQRYHEKQISLYAEYDRPNLLPFLRDSTHCPLKALEICQQRNFVEETVYLL

SRMGNSRSALKMIMEELHDVDKAIEFAKEQDDGELWEDLILYSIDKPPFITGLLNIGTH  
VDPILLIHRKEGMEIPNLRDSL VKILQDYNLQILLREGCKKILVADSL SLLKMHRTQM  
KGVLVDEENICESCLSPILPSDAAKPF SVVVFHCRHMFHKECLPMP SMNSAAQFCNCSA  
KNRGP GSAILEMKK

>sp|Q86XK7|VSIG1\_HUMAN V-set and immunoglobulin domain-containing protein 1 OS=Homo sapiens GN=VSIG1 PE=1 SV=1

MVFAFWKVFLLSCLAGQSVSVVQVTIPDGFVNVTVGSNVTLCIYTTT VASREQLSIQWS  
FFHKKEMEPISIIYFSQGGQAVAIGQFKDRITGSNDPGNASITISHMQPADSGIYICDVNN  
PPDFLGQNQGILNVSVLVKPSKPLCSVQGRP ETGHTISLSCL SALGTPSPVYYWHKLEGR  
DIVPVKENFNPTTGILVIGNLTNFEQGYQCTAINRLGNSSCEIDLTSSHPEVGIIVGAL  
IGSLVGAIIISVVCFARNKAKAKAKERN SKTIAELEPMTKINPRGESEAMPREDATQLE  
VTLPSSIHETGPDITQEPDYEPKPTQEPAP EPAPGSEPM AVPDLDIELELEPETQSELEP  
EPEPEPESEPGVVVEPLSEDEKGVVKA

>sp|P58304|VSX2\_HUMAN Visual system homeobox 2 OS=Homo sapiens GN=VSX2 PE=1 SV=1

MTGKAGEALSKPKSETVAKSTSGGAPARCTGFGI QEILGLNKEPPSSH PRAALDGLAPGH  
LLAARSVLSPAGVGMGLLGPGGLPGFYTQPTFLEVLSDPQSVHLQPLGRASGPLDTSQT  
ASSDSEDVSSDRKMSKALNQTKKRKKRRHRTIFTSYQLEELEKAFNEAHYPDVYAREM  
LAMKTELPEDRIQVWFQNNRAKWRKREKCWGRSSVMAEYGLYGAMVRHSIPLPESILKSA  
KDGIMDSCAPWLLGMHKKSLAAAAESGRKPEGERQALPKLDKMEQDERGPDAQAAISQEE  
LRENSIAVLRAKAQEHSTKVLGTVSGPDSLARSTEKPEEEEEAMDEDRPAERLSPPQLEDMA

>sp|O95292|VAPB\_HUMAN Vesicle-associated membrane protein-associated protein B/C OS=Homo sapiens GN=VAPB PE=1 SV=3

MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNP TDRNVCFKVKT TAPRRYCVRPNSGI  
IDAGASINVSVMLQPFDYDPNEKSKHKFMVQSMFAPTDTSDMEAVWKEAKPEDLMDSKLR  
CVFELPAENDKPHDVEINKIISTASKTETPIVSKSLSSSLDDTEVKKVMEECKRLQGEV  
QRLREENKQFKEEDGLMRKTVQSNSPISALAPTGKEEGLSTRLLALVVLFFIVGVIIGK  
IAL

>sp|Q15904|VAS1\_HUMAN V-type proton ATPase subunit S1 OS=Homo sapiens GN=ATP6AP1 PE=1 SV=2

MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAEEQQVPLVLWSSDRDLWAPA  
ADTHEGHITSDLQLSTYLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNL  
ENALDLAPSSLVLPVDWYAVSTLT TYLQEKLGASPLHVDLATLRELKLNASLPALLIR  
LPYTASSGLMAPREVL TNDEIGQVLS TLKSEDPYTAALTAVRPSRVARDVAVVAGGL  
GRQLLQKQPVSPVIHPPVSYNDTAPRILFWAQNF SVAYKDQWEDLTPLTFGVQELNLTGS  
FWNDSFARLSLTYERLFGTTVTFKFI LANRLYPVSARHWFTMERLEVHSNGSVAYFNASQ  
VTGPSIYSFHC EYVSSLSKKGSLLVARTQSPWQMMLQDFQIQAFNMGEQFSYASDCAS  
FFSPGIWMGLLTSLFMLFIFTYGLHMILSLKTMDRFDHKGPTISLTQIV

>sp|Q6EMK4|VASN\_HUMAN Vasorin OS=Homo sapiens GN=VASN PE=1 SV=1

MCSRVP LLLPL LLL LALGPGVQGCPSGCQCSQPQT V FCTARQGTTPRDPV PDTVGLYVF  
ENGITMLDAGSFAGLPGLQLLDLSQNQIASLPSGVFQPLANLSNLDLTANRLHEITNETF  
RGLRRRLERLYLGKNRIRHIQPGAFDTLDR LLELKLQDNELRALPPLRLPRLLLLDLSHNS  
LLALEPGILDTANVEALRLAGLGLQQLDEGLFSRLRNLDLVDSDNQLERVPPVIRGLRG  
LTRLRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPF

NCVCPLSWFGPWVRESHVTLASPEETRCHFPKRNAGRLLELDYADFGCPATTTTATVPT  
TRPVVREPTALSSSLAPTWLSPTTEPATEAPSPSTAPPTVGPVPQPQDCPPSTCLNGGTC  
HLGTRHHLACLCPEGFTGLYCESQMGQGRPSPTPTVTPRPPRSLTLGIEPVSPSTLRVGL  
QRYLQGSVVQLRSLRLTYRNLSGPDKRLVTLRLPASLAEYTVTQLRPNATYSVCVMPLGP  
GRVPEGEEACGEAHTPPAVHSNHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVR  
RGRAMAAAAQDKGQVGPAGGLEEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFP  
PGLQSPHLAKPYI

>sp|P50552|VASP\_HUMAN Vasodilator-stimulated phosphoprotein OS=Homo sapiens GN=VASP PE=1 SV=3

MSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDQV  
VINCAIVRGVKYNQATPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPP  
PPALPTWSVPNGSPSEVEQQKQQPGPSEHIERRVSNAGPPAPPAGGPPPPPGPPPP  
GPPPPGLPPSGVPAAHGAGGPPAPPLPAAQPGGGGAGAPGLAAAIAGAKLRKVS  
QEEASGGPTAPKAESGRSGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP  
AQSESVRRPWENSTTLPRMKSSSVTTSETQPCTPSSSDYSDLQRVKQELLEEVKKELQ  
KVKEEIIIEAFVQELRKRGS

>sp|P27449|VATL\_HUMAN V-type proton ATPase 16 kDa proteolipid subunit OS=Homo sapiens GN=ATP6VOC PE=1 SV=1

MSESKSGPEYASFFAVMGASAMVFSALGAAYGTAKSGTGIAAMSVMRPEQIMKSIIPV  
MAGIIAIYGLVVAVLIANSLNDDISLYKSFLQLGAGLSVGLSGLAAGFAIGIVGDAGVRG  
TAQQPRLFVGMILILIFAEVLGLYLIVALLSTK

>sp|P15498|VAV\_HUMAN Proto-oncogene vav OS=Homo sapiens GN=VAV1 PE=1 SV=4

MELWRQCTHWLIQCRVLPSSHRTWDGAQVCELAQALRDGVLLCQLLNLLPHAINLREV  
NLRPQMSQFLCLKNIRTFSTCEKFGLKRSELEAFDLFDVQDFGKVIYTLALSWTPI  
AQNRGIMPFPTEESVGDEDIYSLSDQIDDTVEEDEDLYDCVENEEAEGDEIYEDLMRS  
EPVSMPPKMTYDKRCCCLREIQTEEKYDTLGSIQHFLKPLQRFLKPDIEIIFINI  
EDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVYGRYCSQVESASKHLDRVAAA  
REDVQMKLEECQRANNGRFTLRDLMVPMQVRVLYHLLQLVKHTQEAMEKENLRLAL  
DAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAHYGRPKIDGELKITSVERRSKM  
DRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDDSSGDRDNKKWSHMFLIEDQGAQ  
GYELFFKTRELKKKWEQFEMAIISNIYPENATANGHDFQMFSEETTSCKACQMLLRGT  
YQGYRCHRCRASAHKECLGRVPPCGRHGQDFPGTMKKDKLHRRADKKRNELGLPKMEVF  
QEYYGLPPPPGAIGPFLRLNPGDVELTKAEAEQNWWEGRNTSTNEIGWFPCNRVKPYVH  
GPPQDLSVHLWYAGPMERAGAESILANRSDGTFLVRQVRKDAAEFASIKYNVEVKHIKI  
MTAEGLYRITEKKAFRGLTELVEFYQQNSLKDFKSLDTTLQFPFKEPEKRTISRPAVGS  
TKYFGTAKARYDFCARDSELSLKEGDIKILNKKGQQGWWRGEIYGRVGFWPANYVEED  
YSEYC

>sp|Q76NI1|VKIND\_HUMAN Protein very KIND OS=Homo sapiens GN=KNDC1 PE=2 SV=2

MQAMDPAAADLYEEDGKDLDFYDFEPLPTLPEDEENVSLADILSLRDRGLSEQEAWAVCL  
ECSLSMRVAHAIAIFQSLCITPDTLAFNTSGNVCFMEQLSDDPEGAFVPPEFDVTGNTFE  
AHIYSLGATLKAALYVAEPTLEPRLSQDLEALLSRMQAEDPGDRPDLESIIALCEEKLQ  
LTSSCRVCRSLSAVGRRLVLSIESFGALQDVSESSWRERPAPGNAGPRRPPGDPSTDPEVL  
PTPEGPESETSRGPASPTKALLSTPVRNGESHGREGLAGLVDAERTLGELDRDALRRS  
RLRKVQTFPRLLSDSPEATLCLPLTRGKSQLPISELFSPDPRKAFLDRKNGLSSFQAQPK

CRLWPEQEPEHQLGRVPCAGRSTDRGPGVPGSPGPETSHPSQGPAPADPRDASGEAQ  
TPRDDERIPEGARQLESAAAEQWVSLQDLLSQLGRPFREYELWALCLACLRALQTRPEHP  
AYLCLDSVLVAEDGAVLFQPPPANGSYDSFFLAPELAEERLVTEKASVYCVAVLWTAAK  
FSVPRNHKLALPRRLKTLLLDMARRSAPERPSAAEAIKVCGSYLLQRGMDSRKILAHLRA  
SICQVYQEEETISLQNAFSVELKPSVAPAPEPSPGFLPVNSDTGLVAVPGVPVPGQHPCG  
EEATQLPAAFTSEATHFKPIVLAQNASVARDQPALAQEESEERGGQREGEGEEKLSLEAH  
AGSPSLKTPDGPVPGPGPQGAAPPEPLGASVQRDSAQGRPCPPPQAPANQPEGASSAAPGS  
PVPAPPTKASALPVEQGAEP IPPGVASGGLRPDALGPTTAHHGPRHPPKPPRSKATERP  
GQEPEGPGATPAGERDDQSPDSVPERPRPADRRRLCLPCVDASPLPGRTACPSLQEATRLI  
QEEFAFDGYLDNGLEALIMGEYIFALKDLTFATFCGAISEKFCDLYWDEKLLQNLFKVVN  
GQASPSPTAAEEAGSQLEGSQSPRSPSSKRPSLHRLGKEKPAMARTSSRAPCSPTSVSVDV  
DSDALSRGNFEVGFRRPQRSVKAERAQQPEAGEDRRPAGGASDVEAVTRLARSKGVGPALS  
PGPAGFQSCSPGWCSAFYEADCFGADVHNYVKDLGRQQADGALPDAQSPELEQQLMMEKR  
NYRKTLLKFYQKLLQKEKRNKGSVDKTMLSKLGKQLEEMKSRVQFLSLVKYLQVMYAERW  
GLEPCTLPVIVNIAAAPCDTLDFSPLEDESSLIIFYNVNKHPPGRQKARILQAGTPLGLMA  
YLYSSDAFLEGYVQQFLYTFRYFCTPHDFLHFLLDRLNSTLTRAHQDPTSTFTKIYRRSL  
CVLQAWVEDCYAVDFPRNSGLLGKLEDFISSKILPLDGS AKHLLGLLEVGMDDRAEGNPR  
GTDLENPREAEEDARPFNALCKRLSEDGISRKSFPWRLPRGNGLVLPPhKERPYTIAAAL  
PKPCFLEDfyGPCAKTSEKGPYFLTEYSTHQLFSQLTLLQQELFQKCHPVHFLNSRALGV  
MDKSTAIPKASSSESLSAKTCSLFLPNYVQDKYLLQLLRNADDVSTWVAEIVTSHTSKL  
QVNLLSKFLLIAKSCYEQRNFATAMQILSGLEHLAVRQSPAWRILPAKIAEVMEEKAVE  
VFLKSDSLCLMEGRRFRAQPTLPSAHLAMHIQQLETGGFTMTNGAHRWSKLARNIAKVVS  
QVHAFQENPYTFSPDPKLQSYLKQRIARFSGADISTLAADSRANFHQVSSEKHSRKIQDK  
LRRMKATFQ

>sp|Q9NY84|VNN3\_HUMAN Vascular non-inflammatory molecule 3 OS=Homo sapiens GN=VNN3 PE=2  
SV=2

MIISHFPKCVAVFALLALSVGALDTFIAAVYEHAVILPNRTETPVSKEEALLMNKNIDV  
LEKAVKLAAKQGAHIIVTPEDGIYGIWIFTRESIYPYLEDIPDPGVNWIPCRDPWRFGNTP  
VQQLSCLAKDNSIYVVANIGDKKPCNASDSQCPPDGRYQYNTDVVFDSQGKLLARYHKY  
NLFAPEIQFDFPKDSELVTFDTPFGKFGIFTCFDIFSHDPAVVVVDEVSDSILYPTAWY  
NTLPLLSAVPFHSAWAKAMGVNLLAANTHNTSMHMTGSGIYAPEAVKVYHYDMETESGQL  
LSELKSRPRPREPTYPAVDWHAYASSVKPFSSEQSDFLGMIFYDEFTEFTKLKRNTGNYT  
ACQKDLCCHLTYSKSEKRTDEIYALGAFDGLHTVEGQYYLQICALLKCQTDTLETGCEPV  
GSAFTKFEDFSLSGTFGTRYVFPQIILSGSQLAPERHYEISRDRGRLRSRSGAPLPVLVMA  
LYGRVFEKDPRLGQSGSKFQ

>sp|Q8TDU5|VNRL4\_HUMAN Putative vomeronasal receptor-like protein 4 OS=Homo sapiens  
GN=VN1R17P PE=5 SV=1

MEMTKLFSYIVIKNVYYPQVSFGISANTFLLLFHIFTFAYTHRLKPIDMTISHLPLIHIL  
LLFTQAILVSSDLFESWNIQNNDLKCKIITFLNRVMRGVSICTTCLLSVLQAITISPSTS  
FLEKFKHISANHTLGFILFSWVLNMFITNNLLLFIVPTPNRIGASLLFVTEHCYVLPMSY  
THRSLFFILMVLRDVIFIGLMVLSSGYG

>sp|A5D8V6|VP37C\_HUMAN Vacuolar protein sorting-associated protein 37C OS=Homo sapiens  
GN=VPS37C PE=1 SV=2

METLKDKTLQEEELQNDSEAIQLALESPEVQDLQLEREMALATNRS LAERNLEFQGGL



EISRSNLSDRYQELRKLVERCQEQAQKLEKFSSALQPGTLLDLLQVEGMKIEESEAMAE  
KFLEGEVPLETFLENFSSMRMLSHLRRVRVEKLQEVVRKPRASQELAGDAPPPRPPPPVR  
PVPQGTTPPVVEEQPPLAMPYPPLPSPSPSLPVGPTAHGALPPAPFPVVSQPSFYSGP  
LGPTYPAALQGRGAAGYSWSPQRSMPPRPGYPGTPMGASGPGYPLRGGRAPSPGYPQQS  
PYPATGGKPPYPIQPQLPSFPGQPQSVPLQPPYPPGPAPPYGFPPPPGPAWPGY

>sp|Q9P1Q0|VPS54\_HUMAN Vacuolar protein sorting-associated protein 54 OS=Homo sapiens  
GN=VPS54 PE=1 SV=2

MASSHSSSPVPQGSSSDVFFKIEVDPSKHIRPVPSLPDVCPEPTGDSHSLYVAPSLVTD  
QHRWTVYHSHKVNLPALNDPRLAKRESDFFTKTWGLDFVDTEVIPSFYLPQISKEHFTVY  
QQEISQREKIHERCKNICPPKDTFERTLLHTHDKSRTDLEQVPKIFMKPDFALDDSLTFN  
SVLPWSHFNTAGGKGNRDAASSKLLQEKLSHYLDIVEVNIAHQISLRSEAFFHAMTSQHE  
LQDYLRKTSQAVKMLRDKIAQIDKVMCEGSLHILRLALTRNNCVKVYNKLLMATVHQQT  
PTVQVLLSTSEFVGALDLIATTQEVLQQELQGIHSFRHLGSQLCELEKLIDKMMIAEFST  
YSHSDLNRPLEDDCQVLEERLISLVFGLLKQRKLNFLIYGEKMOVITAKNIKQCVINK  
VSQTEEIDTDVVVKLADQMRMLNFPQWFDLLKDIFSFTIFLQRVKATLNIHSHVLSVL  
DKNQRTRELEEISQQKNAAKDNSLDTEVAYLIHEGMFISDAFGEGELTPIAVDTTSQRNA  
SPNSEPCSSDSVSEPECTTSSSSKEHTSSSAIPGGVDIMVSEDMLTDSSELGKLANNIQ  
ELLYSASDICHRAVKFLMSRAKDGLEKLNSMEFITLSRLMETFILDTEQICGRKSTSL  
LGALQSQAIFVNRHFEEKTKLSLLLDNERWKQADVPAEFQDLVDSLSDGKIALPEKKS  
GATEERKPAEVLIVEGQQYAVVGTVLLLIRIILEYCQCDNIPSVTTDMLTRLSDLLKYF  
NSRSCQLVLGAGALQVVGKLTITTKNLALSSRCLQLIVHYIPVIRAHFEARLPPKQYSML  
RHFHDHITKDYHDHIAEISAKLVAIMDSLFDKLLSKYEVKAPVPSACFRNICKQMTKMHEA  
IFDLLPEEQTMQLFLRINASYKLHLKKQLSHLNVINDGGPQNGLVTAADVAFYTGNLQALK  
GLKDLDLNMAEIVEQKR

>sp|Q9NP79|VTA1\_HUMAN Vacuolar protein sorting-associated protein VTA1 homolog OS=Homo  
sapiens GN=VTA1 PE=1 SV=1

MAALAPLPPLPAQFKSIQHHLRTAQEHDKRDPVVAYYCRLYAMQTGMKIDSKTPECRKFL  
SKLMDQLEALKKQLGDNEAITQEIVGCAHLENYALKMFLYADNEDRAGRFRHKNMISFYT  
ASLLIDVITVFGELTDENVKHKRYARWKATYIHNCLKNGETPQAGPVGIEEDNDIEENED  
AGAASLPTQPTQSSSSSTYDPSNMPSGNYTGIIQIPGAHAPANTPAEVPHESTGVASNTIQ  
PTPQTIPAIDPALFNTISQGDVRLTPEDFARAQKYCKYAGSALQYEDVSTAVQNLQKALK  
LLTTGRE

>sp|Q7Z7D3|VTCN1\_HUMAN V-set domain-containing T-cell activation inhibitor 1 OS=Homo  
sapiens GN=VTCN1 PE=1 SV=1

MASLGQILFWSIIISIIILAGAIALIIGFGISGRHSITVTTVASAGNIGEDGILSCTFEP  
DIKLSDIVIQWLKEGVLGLVHEFKEGKDELSEQDEMFRGRTAVFADQVIVGNASRLKNV  
QLTDAGTYKCYIITSKGGKNANLEYKTGAFSMPENVNDYNASSETLRCEAPRWFQPTVV  
WASQVDQGANFSEVSNTSFELNSENVTMKVVSVLNVNTINNTYSCMIENDIAKATGDIKV  
TESEIKRRSHLQLLSKASLCVSSFFAISWALLPLSPYMLK

>sp|Q9UEU0|VTI1B\_HUMAN Vesicle transport through interaction with t-SNAREs homolog 1B  
OS=Homo sapiens GN=VTI1B PE=1 SV=3

MASSAASSEHFEKLHEIFRGLHEDLQGVPERLLGTAGTEEEKKLIRDFDEKQQEANETLA  
EMEEELRYAPLSFRNPMSKLRNRYKDLAKLHREVRSTPLTATPGGRGDMKYGIYAVENE  
HMNRLQSQRAMLLQGTESLNRATQSIERSHRIATETDQIGSEIIIEELGEQRDQLERTKSR

LVNTSENLSKSRKILRSMRKVTTNKLKLSIIILLELAILGGLVYYKFFRSH

>sp|Q8TAG5|VTM2A\_HUMAN V-set and transmembrane domain-containing protein 2A OS=Homo sapiens GN=VSTM2A PE=2 SV=3

MMGIFLVYVGFVFFSVLYVQQGLSSQAKFTEFPRNVTATEGQNVEMSCAFQSGSASVYLE  
IQWWFLRGPEDLDPGAEGAGAQVELLPDRDPDSGTKISTVKVQGNDISHLQISKVRKK  
DEGLYECRVTDANYGELQEHAQAYLKVNANSHARRMQAFEASPMWLQDMKPRKNVSAAI  
PSSIHGSAQRTHSTSSPQVVAKIPKQSPQSGARIATSHGLSVLLLVCGFVKGALL

>sp|Q8N6F8|WBS27\_HUMAN Williams-Beuren syndrome chromosomal region 27 protein OS=Homo sapiens GN=WBS27 PE=1 SV=2

MAQEEGGSLEVRARVRAAHGIPDLAQKLHFYDRWAPDYDQDVATLLYRAPRLAVDCLTQ  
ALPGPPHSALILDVACGTGLVAAELRAPGFLQLHGVDSGPMLEQAQAPGLYQRLSCTL  
GQEPLPSPEGTDAVLIVGALSDGQVPCNAIPELHVTKPGLVCLTTRTNSSNLQYKEAL  
EATLDRLEQAGMWEGLVAWPVDRLWTAGSWLPPSWRWYPASLPRMASSPALSTCTESGRR  
PRLRK

>sp|Q8IZU2|WDR17\_HUMAN WD repeat-containing protein 17 OS=Homo sapiens GN=WDR17 PE=2 SV=2

MAWMTYISNWFEQDDWYEGLRANMSQVRQVGLLAAGCQPNKDVCAASGDRFAYCATLA  
IYIYQLDHRYNEFKLHAIMSEHKKTITAIWCPHPDLFASGSTDNLVIIWNVAEQKVIA  
KLDSTKGIPASLSWCNAEDVAVFVSHRGPLFIWTISGPDGVIHKAHSDICMFR  
WHTHQKGKVVFGHIDGSLIFHPGNKNQKHVLRPESEGTDEEDPVTALEWDPLSTDYLL  
VVNLHYGIRLVDSSELSCTITFNLPASAAASVQCLAWVPSAPGMFITGDSQVGVLRINVS  
RTTPIDNLKLLKKTGFHCLHVLNPPRKKFSVQSPTKNHYTSSTSEAVPPPTLTQNAFSL  
PPGHAVCCFLDGGVGLYDMGAKKWDFLRDLGHVETIFDCKFKPDDPNLLATASFDGTIKV  
WDINTLTAVYTPSGNEGVIYLSWAPGGLNCIAGGTSRNGAFIWNVQKGKIIQRFNEHGT  
NGIFCIAWSHKDSKRIATCSSDGFCTIRTIDGKVLHKYKHPAAVFGCDWSQNNKDMIATG  
CEDTNVRVYYYVATSSDQPLKVFSGHTAKVFHVKWSPLREGILCSGSDGTVRIWDYTQDA  
CINILNGHTAPVRGLMWNTIPIYLLISGSWDYTIKVDTRETCVDTVYDHGADVGLTC  
HPSRPFTMASCSRDSVRLWSLTALVTPVQINILADRSWEEIIGNTDYAIEPGTPPLLCG  
KVSRIQIEIKLTANSQVKKLRWFSECLSPPGSDNLWNLVAVIKGQDDSLPQNYCKG  
IMHLKHLIKFRTSEAQELTTVKMSKFGGGIGVPAKEERLKEAAEIHRLRGQIQRYCELMV  
ELGEWDKALSIAPGVSVKYWKMLMQRRADQLIQEDKDDVIPYCIIAGDVKKLVHFFMSRG  
QLKEALLVAQAACEGNMQPLHVSVPKGASYSDDIYKEDFNELLHKVSKELAWEYFQDGRA  
VLAACCHLAIDNIELAMAYLIRGNELELAVCVGTVLGESAAPATHYALELLARKCMMISV  
CFPCVGYSVPFCYVNRNLAADLLLMPDNLHLIKLCAFYPGCTEEINDLHDKCKLPTVE  
ECMQLAETARADDNIFETVKYLYLSQEPEKALPIGISFVKEYISSDWTLDTIYPVLDLL  
SYIRTEKLLLHTCTEARNELLILCGYIGALLAIRRQYQSIVPALYEYTSQLLKRREVSVP  
LKIEYLSEELDAWRCTQSTNRSLEDSPYTPPSDSQRMIIYATLLKRLKEESLKGIIIGPDY  
VTGSNLPSHSDIHISCLTGLKIQGPVFFLEDGKSAISLNDALMWAKVNPFSPLGTGIRLN  
PF

>sp|Q9UNX4|WDR3\_HUMAN WD repeat-containing protein 3 OS=Homo sapiens GN=WDR3 PE=1 SV=1

MGLTKQYLRVAVAVFGVIGSQKGNIVFVTLRGEKGRYVAVPACEHVFIWDLRKGKIL  
LQGLKQEVTCPCSPDGLHLAVGYEDGSIRIFSLLSGEGNVTFNHGKAAITTLKYDQLGG  
RLASGSKDTDIIVWDVINESGLYRLKGHKDAITQALFLREKNLLVTSKGDTMVKWWDLDT  
QHCFKTMVGHRTVEWGLVLLSEEKRLITGASDSELRVWDIAYLQEIEDPEEPDPKKIKGS  
SPGIQDTLEAEDGAFETDEAPEDRILSCRKAGSIMREGDRVVNLAVDKTGRILACHGTD

SVLELFCILSKKEIQKKMDKKMKARKKAKLHSSKGEEEDPEVNVEMSLQDEIQRVTNIK  
TSAKIKSFDLIHSPHGELKAVFLLQNNLVELYSLNPSLPTQPVRTSRITIGGHRSDVRT  
LSFSSDNI AVL SAAADSIKIWNSTLQCIRMTCEYALCSFFVPGDRQVVI GKTGKLQL  
YDLASGNLLETIDAHDGALWSMSLSPDQRGFVTGGADKSVKFWDFELVKDENSTQKRLSV  
KQTRTLQLDEEDVLCVSYSPNQKLLAVSLLDCTVKIFYVDTLKFFLSLYGHKLPVICMDIS  
HDGALIATGSADRNKVIWGLDFGDCHKSLFAHDDSVMYLQFVPKSHLFFTAGKDHKIKQW  
DADKFEHIQTLEGHHQEIWCLAVSPSGDYVVSSSHDKSLRLWERTREPLILEEEREMERE  
AEYEESVAKEDQPAVPGETQGDSYFTGKKT IETVKAERIMEAIELYREETAKMKEHKAI  
CKAAGKEVPLPSNPILMAYGISPSAYVLEIFKGIKSSELEESLLVLPFSYVPDILKLFN  
EFIQLGSDVELICRCLFLLRIHFGQITSNQMLVPVIEKLRETTISKVSQVRDVI GFNMA  
GLDYLKRECEAKSEVMFFADATSHLEEKRRKRKKREKLILTLT

>sp|O15213|WDR46\_HUMAN WD repeat-containing protein 46 OS=Homo sapiens GN=WDR46 PE=1 SV=3

METAPKPGKDVPPKKDKLQTKRKKPRRYWEEETVPTTAGASPGPPRNKNREL RPQRPN  
AYILKKSRI SKKPQVPKKPREWKNPESQRGLSGTQDPFPGPAPVPVEVVQKFCRIDKSRK  
LPHSKAKTRSRLEVAEAEEEETSIIKAARSELLLAEEP GFLEGEDGDTAKICQADIVEAV  
DIASAAKHFDLNLRFQGPYRLNYSRTGRHLAFGGRRGHVAALDWVTKKLMCEINVMEAVR  
DIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFLATASETGFLT  
YLDVSVGKIVAALNARAGRLDVMSQNPYNAV IHLGHSNGTVSLWSPAMKEPLAKILCHRG  
GVRRAVDSTGTYMATSGLDHQLKIFDLRGTYQPLSTRTLPHGAGHLAFSQRGLLVAGMG  
DVVNIWAGQGKASPPSLEQPYLTHRLSGPVHGLQFCPFEDVLGVGHTGGITSMLVPGAGE  
PNFDGLESNPYRSRKQRQEWVKALLEKVP AELICLDPRALAEVDVISLEQGKKEQIERL  
GYDPQAKAPFQPKPKQKGRSSASLVKRRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGA  
RPSALDRFVR

>sp|Q9Y4E6|WDR7\_HUMAN WD repeat-containing protein 7 OS=Homo sapiens GN=WDR7 PE=1 SV=2

MAGNSLVLP IVLWGRKAPTHCISAVLLTDDGATIVTGCHDGQICLWDL SVELQINPRALL  
FGHTASITCLSKACASSDKQYIVSASESGEMCLWDVSDGRCIEFTKLACTHTGIQFYQFS  
VGNQREGRL LCHGHYPEILVVDATSLEVLYSLVSKISPDWISSMSIIRSHRTQEDTVVAL  
SVTGILKVWIVTSEISDMQDTEPIFEEESKPIYCQNCQSISFCAFTQRSLLVVC SKYWRV  
FDAGDYSLLCSGPENGQTWTGGDFVSSDKV I IWTENGQSYIYKLPASCLPASDSFRSDV  
GKAVERNLI PPVQHILLDRKDKELLICPPVTRFFYGCREYFHKLLIQGDSSGRLNIWNISD  
TADKQGSEEGLAMTTSISLQEA FDKLNPCAGIIDQLSVIPNSNEPLKV TASVYIPAHGR  
LVCGREDGSIVIVPATQTAIVQLLQGEHMLRRGWPPHRTL RGHNRNKTCLLYPHQVSARY  
DQRYLISGGVDFSVI IWDIFSGEMKHIFCVHGGEITQLLVPPENC SARVQHCICSVASDH  
SVGLLSLREKKCIMLASRHLFPIQVIKWRPSDDYL VVGCS DGSVYVWQMDTGALDRCVMG  
ITAVEILNACDEAVPAAVDSLHPAVNLKQAMTRRSLAALKNMAHHLQTLATNLLASEA  
SDKGNLPKYSHNSLMVQA IKTNLDPDIHVLFFDVEAL I IQLL TEEASRPNTALISPENL  
QKASGSSDKGGSFLT GKRAAVLFQVKETIKENIKEHLLDDEEED EIMRQRREESDPEY  
RSSKSKPLTLLEYNL TMDTAKLFMSCLHAWGLNEVLDEVCLDRLGMLKPHCTVSFGLLSR  
GGHMSMLPGYNQPACKLSHGKTEVGRKLPASEGVGKGTYGVSRAVTTQHLLS I ISLANT  
LMSMTNATFIGDHMKKGPTRP RPSTPDLSKARGSPPTSSNIVQGQIKQVAAPVVSARSD  
ADHSGSDPPSAPALHTCFLVNEGWSQLAAMHCVMLPDLLGLDKFRPPLLEMLARRWQDRC  
LEVREAAQALLLAELRRIEQAGRKEAIDAWAPYLPQYIDHVISPGVTSEAAQTITTAPDA  
SGPEAKVQEEHDLVDDITTGCLSSVPQMKKISTSYEERRKQATAIVLLGVIGAEFGAE  
IEPPKLLTRPRSSSQIPEGFGLTSGGSNYSLARHTCKALT FLLLQPPSPKLPHSTIRRT

AIDLIGRGFTVWEPYMDVSAVLMGLLELCADAEKQLANITMGLPLSPAADSARSARHALS  
LIATARPPAFITTIKEVHRHTALAANTQSQQNMHTTTLARAKGEILRVIEILIEKMPTD  
VVDLLVEVMDIIMYCLEGLSVKKKGLQECFPAICRFYMVSYERNHRIAVGARHGSVALY  
DIRTGKCQTIHGKGPITAVAFAPDGRYLATYSNTDSHISFWQMNTSLLGSIGMLNSAPQ  
LRCIKTYQVPPVQPASPGSHNALKLARLIWTSNRNVILMAHDGKEHRFMV

>sp|Q8IUB5|WFD13\_HUMAN WAP four-disulfide core domain protein 13 OS=Homo sapiens GN=WFD13  
PE=3 SV=1

MKPVLPLQFLVVFCLALQLVPGSPKQRVLYILEPPPCISAPENCTHLCTMQEDCEKGFQ  
CCSSFCGIVCSSETFQKRNRRIKHKGSEVIMPAN

>sp|Q9HC57|WFD1\_HUMAN WAP four-disulfide core domain protein 1 OS=Homo sapiens GN=WFD1  
PE=2 SV=2

MPLTGVGPGSCRRQIIRALCLLLLLHAGSAKNIWKRALPARLAEKSRAEEAGAPGGPRQ  
PRADRCPPPPRTLPPGACQAARCQADSECPHRRCCYNGCAYACLEAVPPPPVLDWLVQP  
KPRWLGNGWLLDGPPEVLQAEACSTTEDGAEPPLCPSGYECHILSPGDVAEGIPNRGQC  
VKQRRQADGRILRHKLYKEYPEGDSKNVAEPGRGQQKHFFQ

>sp|Q8NEX5|WFD9\_HUMAN Protein WFD9 OS=Homo sapiens GN=WFD9 PE=1 SV=1

MKPWILLVLMFISGVVMLLPVLGSEFWNKDPFLDMIRETEQCWVQPPYKYCEKRCTKIMTC  
VRPNHTCCWTYCGNICLDNNEPLKSMLNP

>sp|Q8TEU8|WFK2\_HUMAN WAP, Kazal, immunoglobulin, Kunitz and NTR domain-containing  
protein 2 OS=Homo sapiens GN=WFIK2 PE=1 SV=1

MWAPRCRRFWSRWEQVAALLLLLLLVPPRSLALPPIRYSHAGICPNDMNPNLWVDAQS  
TCRRECETDQECETYEKCCPNVCGTKSCVAARYMDVKGKGPVGMPEATCDHFMCLQQG  
SECDIWDGQPVCKCKDRCEKPSFTCASDGLTYNRCYMDAEACSKGITLAVVTCRYHFT  
WPNTSPPPPETTMHPTTASPETPELDMAPALLNNPVHQSVTMGETVSFLCDVVGRPRPE  
ITWEKQLEDRENVMRPNHVRGNVVVNTIAQLVIYNAQLQDAGIYTCTARNVAGVLRADF  
PLSVVRGHQAAATSESSPNGTAFPAAECLKPPDSEDCGEEQTRWHFDAQANNCLTFTFGH  
CHRNLFHETYEACMLACMSGPLAACSLPALQGPKAYAPRAYNSQTGQCQSFVYGGCE  
GNGNFFESREACEESCFPRGNQRCRACKPRQKLVTSECRSDFVILGRVSELTEEPDSGR  
ALVTVDEVKDEKMLKFLGQEPLEVTLLHVDWACPCPNVTVSEMPLEIMGEVDGGMAML  
RPDSFVGASSARRVRKLREVMHKKTCVDLKEFLGLH

>sp|076024|WFS1\_HUMAN Wolframin OS=Homo sapiens GN=WFS1 PE=1 SV=2

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LNSCTAVDWLVLAQGRREAVKLLRRCLADRRGITSENEREVRQLSSETDLERAVRKA  
LVMYWKLNPKKKQVAVAELENVGVNEHDGGAQPGVPKSLQKQRRMLERLVSSSKN  
YIALDDFVEITKKYAKGVIPSSLFLQDDEDDDELAKSPEDLPLRLKVVKYPLHAIMEIK  
EYLIDMASRAGMHWLSTIIPTHHINALIFFFIVSNLTIDFAFFIPLVIFYLSFISMVIC  
TLKVFQDSKAWENFRTLTDLLRFEPNLDVEQAEVNFQWNHLEPYAHFLLSVFFVIFSFP  
IASKDCIPCSELAVITGFFTSTSYLSLSTHAEPYTRRALATEVTAGLLSLLPSMPLNWPY  
LKVLGQTFITVPVGHVVLNVSVPCLLYVYLLYLFFRMAQLRNFKGTICYLVYPYLCFMW  
CELSVILLESGLGLLRASIGYFLFLFALPILVAGLALVGVLFARWFTSLELTKIAVT  
VAVCSVPLLLRWTKASFSVGMVKSLTRSSMVKLILVWLTAIVLFCWFYVYRSEGKVKY  
NSTLTWQQYGALCGPRAWKETNMARTQILCSHLEGHRVTWTGRFKYVRVTDIDNSAESAI  
NMLPFFIGDWMRCLYGEAYPACSPGNTSTAEELCRLKLLAKHPCHIKKFDYKFEITVG

MPFSSGADGSRSEEDDVT KDIVLRASSEFKSVLLSLRQGS LIEFSTILEGR LGSKWPVF  
ELKAISCLNCMAQLSPTRRHVKIEHDWRSTVHGAVKFAFDFFFFPFLSAA

>sp|Q9Y3S1|WNK2\_HUMAN Serine/threonine-protein kinase WNK2 OS=Homo sapiens GN=WNK2 PE=1  
SV=4

MDGDGGRRDVPGTLM EPGRGAGPAGMAEPRAK AARPGPQRFLRRSVVESDQE EPPGLEAA  
EAPGPQPPQLQRRVLL LCKTRRLIAERARGRPAAPAPAALVAQPGAPGAPADAGPEPVG  
TQEPGPDPIAAAVETAPADGGPREEAAATVRKEDEGA AEAKPEPGRTRRDEPEEEEDDE  
DDLKAVATSLDGRFLKF DIELGRGSFKTVYKGLDTETWVEVAWCELQDRKLT KLERQRFK  
EEAEMLKGLQHPNIVRFYDFWESSAKGKRCIVLVT ELMTSGTLKTYLKRFKVMKPKVLRS  
WCRQILKGLLFLHTRTPPIIHRDLKCDNIFITGPTGSVKIGDLGLATLKRASF AKSVIGT  
PEFMAPEMYEEHYDESVDVYAFGMC MLEMATSEYPYSECQNAAQIYRKVTCGIKPASF EK  
VHDPEIKEIIGECICKNKEERYEIKDLLSHAF FAEDTGVRVELAEEDHGRKSTIALRLWV  
EDPKKLKGKPKDNGAIEFTFDLEKETPDEVAQEMIESGFFHESDVKIVAKSIRDRVALIQ  
WRRERIWPALQPK EQQDVGSPDKARGPPVPLQVQV TYHAQAGQPGPPEPEEPEADQHLLP  
PTLPTSATSLASDSTFDSGQGSTVYSDSQSSQSVMLGSLADAAPSPAQCVCSPVSEGP  
VLPQSLPSLGAYQQPTAAPGLPVGSVPAPACPPSLQ QHFDPAMSFAPVLP PPSTPMPTG  
PGQPAPPGQQPPPLAQPTPLPQVLAPQPVVPLQPV PPHLPYLAPASQVGAPAQLKPLQM  
PQAPLQPLAQVPPQMPPIPVVPPIITPLAGIDGLPPALPDLPTATVPVPPPPQYFSPAVIL  
PSLAAPLPPASPALPLQAVKLPHPPGAPLAMP CRTIVPNAPATIPLLAVAPPGVAALS IH  
SAVAQLPGQPVPYAAFPQMAPTDVPPSPHHTVQNM RATPPQPALPPQPTLPPQVLP PPQ  
TLPPQVLP PPQPTRPPQVLP PPQMLPPQVLP PPQALPVRPEPLQPHLPEQAAPAATPG  
SQILLGHPAPYAVDVAAQVPTVPVPPAAVLS PPLPEVLLPAAPELLPQFPSSLATVSASV  
QSVPTQTATLLPPANPPLPGGPGIASPCPTVQLTVEPVQEEQASQDKPPGLPQSCESYGG  
SDVTS GKELSDSCEGAFGGGRLEGRAARKH HRRSTRARSRQERASRPRLTILNVCNTGDK  
MVECQLETHNHKMTVFKFDLDGDAPDEIATY MVEHDFILQAERETFIEQMKDVM DKAEDM  
LSEDTDADRGSDPGTSPPHLSTCGLGTGEESRQSQANAPVYQQNVLHTGKRWFIICPVAE  
HPAPEAPESSPPLPLSSLPPEASQGPCRGLTLPCLP WRRACGAVFLSLFSAESAQSKQP  
PDSAPYKDLSSKEQPSFLASQQLLSQAGPSNPPGAPPAPLAPSSPPVTALPQDGAAPAT  
STMPEPASGTASQAGGPGTPQGLTSELETSQPLAETHEAPLAVQPLVVG LAPCTPAPEAA  
STRDASAPREPLPPPAPEPSPHSGTPQPALGQPAPLLPAAVGAVSLATSQ LPSPLGPTV  
PPQPPSALES DGEPPPVRGVFVDSTIKSLDEKLRTLLYQEHVPTSSASAGTPVEVGD RDF  
TLEPLRGDQPRSEVCGDLALPPVPKEAVSGRVQLPQPLVEKSELAPTRGAVMEQGTSSS  
MTAESSPRSM LGYDRDGRQVASDSHVVPSPQDVPAFVRPARVEPTDRDGG EAGESSAEP  
PPSDMGTVGGQASHPQTLGARALGSPRKRPEQQDVSSPAKTVGRFSVVSTQDEWTLASPH  
SLRYSAPPDVYLDEAPSSPDVKLAVRRAQTASSIEVG VGEPVSSDSGDEGPRARPPVQKQ  
ASLPVSGSVAGDFVKKATAFLQRPSRAGSLGPETPSRVGMKVPTISVTSFHSQSSYISSD  
NDSELEDADIKKELQSLREKHLKEISELQSQQKQEIEALYRRLGKPLPPNVGFFHTAPPT  
GRRRKTSKSKLKAGLLNPLVRQLKVVASSTGHLADSSRGPPAKDPAQASVGLTADSTGL  
SGKAVQTQQPCSVRASLSSDICSGLASDGGGARGQGWT VYHPTSERVYKSSSKPRARFL  
SGPVSVSIWSALKRLCLGKEHSSRSSTSSLAPGPEPGPQ PALHVQAQVNNNNKKGTFTD  
DLHKLVD EWTSTKTVGAAQLKPTLNQLKQTQKLQDME AQAGWAAPGEARAMTAPRAGVGMP  
RLPPAPGPLSTTVIPGAAPTL SVPTPDGALGTARRNQVWFG LRVPPPTACCGHSTQPRGGQ  
RVGSKTASFAASDPVRS

>sp|P04628|WNT1\_HUMAN Proto-oncogene Wnt-1 OS=Homo sapiens GN=WNT1 PE=1 SV=1

MGLWALLPGWVSATLLALLAALPAALAANSSGRWWGIVNVASSTNLLTDSKSLQLVLEPS  
LQLLSRKQRRLLIRQNPGLHSVSGGLQSAVRECKWQFRNRWNCPTAPGPHLFGKIVNRG  
CRETAFIFAITSAGVTHSVARSCSEGSIESCTCDYRRRGPGGPDWHWGGCDNIDFGRLF  
GREFVDSGEKGRDLRFLMNLHNNEAGRRTTVFSEMRQECKCHGMSGCTVRTCWMRLPTLR  
AVGDVLRDRFDGASRVLYGNRGSNRASRAELLRLPEPDAHKPPSPHDLVYFEKSPNFCT  
YSGRLGTAGTAGRACNSSSPALDGCELLCCGRGHRTRTQVRTERCNCTFHWCCHVSCRNC  
THTRVLHECL

>sp|P56705|WNT4\_HUMAN Protein Wnt-4 OS=Homo sapiens GN=WNT4 PE=1 SV=4

MSPRSLRSLRLLVFAVFSAAASNWLYLAKLSSVGSISEEETCEKLGLIQRQVQMCKRN  
LEVMDSVRRGAQLAIEECQYQFRNRWNCSTLDSLVPFGKVVTQGTREAAFYVAISSAGV  
AFAVTRACSSGELEKCGCDRTVHGVSPQGFQWSGCDNIAYGVAFSQSFVDVRERSKGAS  
SSRALMNLHNNEAGRKAILTHMRVECKCHGVSGSCEVKTWRAVPPFRQVGHALKEKFDG  
ATEVEPRRVGSSRALVPRNAQFKPHTDEDLVYLEPSPDFCEQDMRSGVLGTRGRTCNKTS  
KAIDGCELLCCGRGFHTAQVELAERCSCKFHWCCFVKCRQCQRLVELHTCR

>sp|Q9H1J5|WNT8A\_HUMAN Protein Wnt-8a OS=Homo sapiens GN=WNT8A PE=2 SV=2

MGNLFMLWAALGICCAAFSASAVSVNNFLITGPKAYLTYTTSVALGAQSGIEECKFQFAW  
ERWNCPENALQLSTHNRLRSATRETSFIHAISSAGVMYIITKNCSMGDFENCGCDGSNNG  
KTGGHGWIWGGCDNVEFGERISKLFVDSLEKGDARALMNLHNNRAGRLAVRATMKRTC  
KCHGISGSCSIQTCWLQLAEFREMGDYLKAKYDQALKIEMDKRQLRAGNSAEGHWVPAEA  
FLPSAEAEELIFLEESPDYCTCNSSLGIYGTGRECLQNSHNTSRWERRSCGRLCTECGLQ  
VEERKTEVISSCNCKFQWCCTVKCDQCRHVVSKEYCARSPGSAQSLGKGS

>sp|Q6Q795|VBPC1\_HUMAN Putative viral protein-binding protein C1 OS=Homo sapiens PE=5  
SV=1

MEEVIQAGLAQWSRQKGLALPWDRTRGHPDVPWRNLTSSPTRPLAQAGSCMPAEPSPAA  
HYHQLHVHLQLLPSDLSERPGLRLAPLALVEVGMTLPVPQTPLPHVTQQQLAPGRQLCP  
W

>sp|Q9NNX9|VCX3\_HUMAN Variable charge X-linked protein 3 OS=Homo sapiens GN=VCX3A PE=2  
SV=1

MSPKPRASGPAPAKATEAGKRKSSSQSPSPDKKTKVAKKGAVRRGRRGKGAATKMA  
AVTAPEAESGPAAPGPSQPSQELPQHELPPEEPVSEGTQHDPLSQESELEEPLSQESEV  
EEPLSQESQVEEPLSQESEVEEPLSQESQVEEPLSQESEVEEPLSQESQVEEPLSQESEM  
EELPSV

>sp|O95231|VENTX\_HUMAN Homeobox protein VENTX OS=Homo sapiens GN=VENTX PE=1 SV=1

MRLSSSPRGPQQLSSFGSVDWLSQSSCSGPTHTPRPADFSLSLPGPGQTSGAREPPQA  
VSIKEAAGSSNLPAPERTMAGLSKEPNTLRAPRVRTAFTMEQVRTLEGVFQHHQYLSPLE  
RKRLAREMLSEVQIKTWQNRMRMKHKRQMQDPQLHSPFSGSLHAPPAFYSTSSGLANGL  
QLLCPWAPLSGPQALMLPPGSFWGLCQVAQEALASAGASCCGQPLASHPPTPGRPSLGA  
LSTGPRGLCAMPQTGDAF

>sp|P35968|VGFR2\_HUMAN Vascular endothelial growth factor receptor 2 OS=Homo sapiens  
GN=KDR PE=1 SV=2

MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDL  
WLWPNQSGSEQRVEVTECDGLFCKTLTIIPKVIGNDTGAYKCFYRETDLASVIYVYVD  
YRSPFIASVSDQHGVVYITENKNTVVIPCLGSISNLNVLSCARYPEKRFVPDGNRISWD  
SKKGFTIPSYMISYAGMVFEAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGE

KLVLNCTARTELVNGIDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKFLSTLTIDGVTRS  
DQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLGYP  
EIKWYKNGIPLESNHTIKAGHVLTIMEVSEEDTGNVTVILTNPISKEKQSHVSVLVVY  
PQIGEKSLISPVDYQYGTTLTCTVYAIPPPHHIHWYQLEEECANEPSQAVSVTNPY  
PCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNKVGRGE  
RVISFHVTRGPEITLQPDMPTEQESVSLWCTADRSTFENLTWYKLGPPQPLPIHV  
GELPTPVCKNLDTLWKLNATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRKTKRHC  
VVRQLTVLERVAPTITGNLENQTTSIGESIEVSCTASGNPPQIMWFKDNETLVEDSGI  
VLKDGNRNLTIIRVRKEDEGLYTCQACSVLGCACKEAFFIIEGAQEKTNLEIIILVGT  
AVIAMFFWL LLVILRTVKRANGGELKTGYLSIVMDPDELPLDEHCERLPYDASKWEF  
PRDRLKLGKPLGRGAFGQVIEADAFGIDKTATCRTVAVKMLKEGATHSEHRALMSELKIL  
IHIGHHLNVNLLGACTKPGGPLMVEFCKFGNLSTYLSKRNEFVPYKTKGARFRQGDYV  
GAIPVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFTLEHLICYSFQ  
VAKGMEFLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLP  
LKWMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRM  
RAPDYTTPEMYQTMDCWHGEPSQRPTFSELVEHLGNLLQANAQQDGKDYIVLPIS  
ETLSMEEDSGLSLPTSPVSCMEEEVCDPKFHYDNTAGISQYLQNSKRKSRPVSVKTF  
EDIPLEEPEVKVIPDDNQTDGMVLASEELKTLEDRTKLSPSFGGMVPSKSRESVASE  
GSNQTSQSGYQSGYHSDDTDTTVYSSEEAE LLK LIEIGVQTGSTAQILQPD  
SGTTLSSPPV

>sp|P38435|VKGC\_HUMAN Vitamin K-dependent gamma-carboxylase OS=Homo sapiens GN=GGCX PE=1 SV=2

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PASLAVFRFLFGFLMVLDPQERGLSSLDKRYLDGLDVCRFPLLDALRPLPLDWMYLVYT  
IMFLGALGMMGLCYRISCVLFLLPYWYVFLDKTSWNNHSYLYGLLAFQLTFMDANHYW  
SVDGLLNAHRRNAHVPLWNYAVLRGQIFIVYFIAGVKKLDADWVEGYSMEYLSRHWL  
FSPFKLLLSEELTSLLVHWGGLLLDLSAGFLFFDVSRSIGLFFVSYFHCMNSQLFSIGMFS  
YVMLASSPLFCSPWPRKLVSYPRLQLLPLKAAPQPSVSCVYKRSRGKSGQKPLRH  
QLGAFTLLYLLQLFLPYSHFLTQGYNNWTNGLYGYSWMMVHSRSHQHVKITYRDGRT  
GELGYLNPVFTQSRRWKDHADMLKQYATCLSRLLPKYNVTEPQIYFDIWSINDRFQQR  
IFDPRVDIVQAAWSPFQRTSWVQPLMDLSPWRAKLQEI KSSLDNHTEVVFIA  
DFPGLHLENFVSEDLGNTSIQLLQGEVTVELVAEQKNQTLREGEKMLPAGEYHKVYTT  
SPSPSCYMYVYVNTTELALQLLAYLQELKEKVENGSETGPLPELQPLLEGEVKG  
GPEPTPLVQTFLRRQRLQEIERRRNTPFHERFFRFLRLKLYVFRSFLMTCISLRNLIL  
GRPSLEQLAQEVTYANLRPFEAVGELNPSNTDSSHSNPPEPNPDVHSEF

>sp|Q9BXE9|VN1R3\_HUMAN Vomeronasal type-1 receptor 3 OS=Homo sapiens GN=VN1R3 PE=2 SV=1

MASKDFAIGMILLSQIMVGFLGNFFLLYHYSFLCFTRGMLQSTDILKHLTIANSVLIS  
KGIPQTMAAFGLKDSLSDIGCKFVYVHRVGRAVCVGNACLLSVFQVITISPSEFRWAE  
LKLHAHKYIRSFILVLCWILNTLVNITVLLHVTGKWNINSKTNDYGYCSGGSRSRIPHS  
LHIVLLSSLDVLCGLMTLASGSMVFIHRHKQVQHIHGTNLSARSSPESRVTSILVL  
VSTLCYFTRSPPSLHMSLFPNPSWWLLNTSALITACFPMVSPFVLSRHPRI  
PRLGSACGRNPQFPKLVR

>sp|Q7Z5H4|VN1R5\_HUMAN Vomeronasal type-1 receptor 5 OS=Homo sapiens GN=VN1R5 PE=2 SV=2

MLKLVIIENMAEIMFLSLDLLFSTDILCFNFPKMIKLPGITIQIFFYPQASFGISAN  
TILLFHIFTFVFSHRKSIDMII SHLSLIHILLFTQAILVSLDFFGSQNTQDDLRYKV

IVFLNKVMRGLSICTPCLLSVLQAIISPSIFSLAKLKHPSASHILGFFLFSWVLNMFIV  
IFCCTLRLPPVKRGQSSVCHTALFLFAHELHPQETVFHTNDFEGCHLYRVHGPLKRLHGD  
YFIQITIRGYLSAFTQPACPRVSPVKRASQAILLVSVFVFTYWVDFTFSSGGVTWINDSL  
LVWLQVIVANSYAAISPLMLIYADNQIFKTLQMLWFKYLSPPKMLKFNRCGSGTKK

>sp|Q96RL7|VP13A\_HUMAN Vacuolar protein sorting-associated protein 13A OS=Homo sapiens  
GN=VPS13A PE=1 SV=2

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HIGNLKLIIIPWKNLYTQPVEAVLEEIYLLIVPSSRIKYDPLKEEKQLMEAKQQELKRIEE  
AKQKVVDQEQHLPEKQDTFAEKLVTQIIKNLQVKISSIHRYEDDITNRDKPLSFGISLQ  
NLSMQTTDQYWVPCLDHDETEKLVKRLIRLDNLFAYWNVKSQMFYLSDYDNSLDDLKNGIV  
NENIVPEGYDFVFRPISANAKLVMNRRSDFDFSAPKINLEIELHNIAIEFNKPQYFSIME  
LLESVDMMAQNLPYRKFKPDVPLHHHAREWWAYAIHGVLEVNVCPRLWMWSWKHIRKHRQ  
KVKQYKELYKKKLTSSKPPGELLVSLEELEKTLDFVNITIAQTAEVEVKAGYKIYKEG  
VKDPEDNKGWFSWLWSWSEQNTNEQQPDVQPETLEMLTPEEKALLYEAIGYSETAVDPT  
LLKTFEALKFFVHLKSMSIVLRENHQPPELVDIVIEEFSTLIVQRPGAQAIKFETKIDSF  
HITGLPDNSEKPRLLSSLDAMSFLQITFEINPLDETVSQRCIIIEAEPLIIYDARTVNS  
IVEFFRPPKEVHLAQLTAATLTKLEEFRSKTATGLLYIIETQKVLDLKINLKASYIIVPQ  
DGIFSPTSNNLLLDLGHVKVTSKRSSELPDVKQGEANLKEIMDRAYDSFDIQLTSVQLLY  
SRVGDNWREARKLSVSTQHILVPMHFNLELSKAMVFMVDRMPKFKIYGKPLISLRISDK  
KLQIMELIESIPKPEPVTEVSAPVKSQFIQTSTSLGTSQISQKIIPLELPSVSEDDSE  
EEFFDAPCSPLEPLQFPTGVKSIRTRKLQKQDCSVNMTTFKIRFEVPKVLIEFYHLVGD  
CELSVVEILVLGLGAEIEIRTYDLKANAFLEKFCCLKCEYLDENKKPVYLVTTLDNTMED  
LLTLEYVKAENVPDLKSTYNNVLQLIKVNFSSLDIHLHTEALLNTINYLHNILPQSEEK  
SAPVSTTETEDKGDVIKKLALKLSTNEDIITLQILAEISCLQIFIQDQKCNISEIKIEGL  
DSEMIMRPSETEINAKLRNIIVLDSDIITAIYKKAVYITGKEVFSFKMVSYMDATAGSAYT  
DMNVVDIQVNLIVGCIEVVFVTKFLYSILAFIDNFQAAKQALAEATVQAAGMAATGVKEL  
AQRSSRMALDINIKAPVVVIPQSPVSENVFVADFGLITMTNTFHMITESQSSPPPVIDLI  
TIKLEMRLYRSRFINDAYQEVLDLLLPLNLEVVERNLCWEWYQEVPCFNVNAQLKPME  
FILSQEDITTIKTLHGNIWYEKDGSAFPAVKDQYSATSGVTNASHHSGGATVVTAAV  
VEVHSRALLVKTTLNISFKTDDLTMVLYSPGPKQASFTDVRDPSLKLAEFKLENIISTLK  
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GAVKCKGLKMDYQVGVITIDLSSFNITRIVTFTPFYMIKNKSKYHISVAEEGNDKWLSLDL  
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MLQVMENGRFAKYKYFTHVMINKTDMITRRGVLFVTKGTFGQLTCEWQYSFDEFTKEP  
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>sp|Q5THJ4|VP13D\_HUMAN Vacuolar protein sorting-associated protein 13D OS=Homo sapiens  
GN=VPS13D PE=1 SV=2

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LTTPEMKTSDTQIKEKIFPQEEQRGSLQDSVMNLTQSIVLLEQHTREVLVESQLLLAEFK  
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ASHKNLSFDIPTGSLRDSRAQSPVSGPNVAHLTDGATLNDRSATSVS LDKILTKEQESLI  
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IESPVVSI PRKPGSPELLVGH LGQIFIQNFVAGDDES RSDRLQVEIKDIKLYSLNCTQLA  
GREAVGSEGRMFCPPSGSGSANSQEEAHFTRHDFEFESLHRGQAFHILNNTTIQFKLEKI  
PIERESELTFS LSPDDLGTSSIMKIEGKFVNVPQVVLAKHVYEQVLQTLDNLVYSED LNK  
YPASATSSPCD SPLPLSTCGESSVERKENGLFSHSSLSNTSQKSLSVKEVKSFTQIQ A

TFCISELQVQLSGDLTLGAQGLVSLKFQDFEVEFSKDHPQTLSTIQIALHSLLMEDLLEKN  
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SSYNRVNRSIDVDFNCLDVLITLQTVVILDDFFGIGSTADNHAMRLPPEGILHNVKLEPH  
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RFQAEVVAFIQHFTQLQDVLGRQRAAIEGQTVRDQAQRCSRVLLDIEAGAPVLLIPESSR  
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QMDMIFAAERHPREYSKAPEDSSGDLIFPSYFVRQTGGSLLTEPCRLKLQVERNLDKEIS  
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FLIFDWLLLVHDFLHTPSDIKKQNHVTPSRHRNSSESAIVPKTVKSGVVTKRSSLPVSN  
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QLARLQELGFSMDDCRKALLACQGQLKKAASWLFKNAEPLKSLSLASTSRDSPGAVAAPL  
ISGVEIKAESVCICFIDDCMDCDVPLAELTFSRLNFLQRVTSPEGYAHFTLSGDYYNRA  
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PKRRQPFVPFALRNHTGCTLWFATLTTTPTRAALSHSGSPGVVPEGNGTFLDDTHNVSEW  
REVLTGEEIPFEFEARGKLRHRHTDLRIHQLQVRVNGWEQVSPVSVDKVGTFFRYAAPD  
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PMELRLDSPSAPDKPVVLPAIMPGDSFAVPLHLTSWRLQARPKGLGVFFCKAPIHWTNVV  
KTAEISSSKRECHSMDTEKSRFFRFCVAIKKENYPDYMPSNIFSDSAKQIFRQPGHTIYL  
LPTVVICNLLPCELDYVKGMPINGTLKPGKEAALHTADTSQNIELGVLENFPLCKELL  
IPPGTQNYMVRMLYDVNRRQLNLTIRIVCRAEGSLKIFISAPYWLINKTGLPLIFRQDN  
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GVRALKVIQQGNRPLIYNIGIDVKKGRGRYIDTCMVIFAPRYLLDNKSSHKLAFAREF  
ARGQGTANPEGYISTLPSSVVFHWPRNDYDQLLCVRLMDVPNCIWSGGFEVNKNNSFHI  
NMRDTLGKCFFLRVEITLRGATYRISFSDTDQLPPPFRIDNFSKVPVFTQHGVAEPRLR  
TEVKPMTSLDYAWDEPTLPPFITLTVKGAGSSEINCMNDFQDNRQLYENFIYIAATYT  
FSGLQEGTGRPVASNAITCAELVLDVSPKTQRVILKKKEPGKRSQLRWMTGTGMLAHEG  
SSVPHNPKNPSAARSTEGSAILDIAGLAAVTDNRYEPLMLRKPDRRSTTQTSWFREGKL  
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NEVIETGPAVQVNAVKFPSKSALTNIYKHLMITAQRFTVQIEKLLLKLSFFGYDQAES  
EVEKYDENLHEKTAEQGGTPIRYYFENLKISIPQIKLSVFTSNKLPLDLKALKSTLGFPL  
IRFEDAVINLDPFTRVHPYETKEFIINDILKHFQEELLSQAARILGSVDLGNPMGLLND  
VSEGTGLIKYGNVGLIRNVTHGVSNSAAKFAGTSLDGLGKTMNRRHQSEREYIRYHAA  
TSGEHLVAGIHGLAHGIIGGLTSVITSTVEGVKTEGGVSGFISGLGKGLVGTVTKPVAGA  
LDFASETAQAVRDTATLSGPRTQAQVRKPRCCTGPQGGLPRYSESQAEGQEQLFKLTDN

IQDEFFIAVENIDSYCVLISSKAVYFLKSGDYVDREAIFLEVKYDDLYHCLVSKDHGKVY  
VQVTKKAVSTSSGSVIPGSPHQKPMVHVKSEVLAVKLSQEINYAKSLYEQQMLRLSEN  
REQLELDS

>sp|075436|VP26A\_HUMAN Vacuolar protein sorting-associated protein 26A OS=Homo sapiens  
GN=VPS26A PE=1 SV=2

MSFLGGFFGPICEIDIVLNDGETRMAEMKTEDGKVEKHLYFYDGESVSGKVNLAFAKQPG  
KRLEHQGIRIEFVGQIELFNDKSNTHFVNLVKELALPGELTQSRSYDFEFMQVEKPYES  
YIGANVRLRYFLKVTIVRRLTDLVKEYDLIVHQLATYPDVNNSIKMEVGIEDCLHIEFEY  
NKSXYHLKDVIIVGKIYFLLVRIKIQHMELQLIKKEITGIGPSTTTTETETIAKYEIMDGAP  
VKGESIPIRLFLAGYDPTPTMRDVNKKFSVRYFLNLVLVDEEDRRYFKQQEIILWRKAPE  
KLRKQRTNFHQRFESPESQASAEQPEM

>sp|Q4G0F5|VP26B\_HUMAN Vacuolar protein sorting-associated protein 26B OS=Homo sapiens  
GN=VPS26B PE=1 SV=2

MSFFGFGQSVEVEILLNDAESRKRAEHKTEDGKKEKYFLFYDGETVSGKVSALKNPNKR  
LEHQGIKIEFIGQIELYYDRGNHHEFVSLVKDLARPGEITQSQAQDFEFTHVEKPYESYT  
GQNVKRLRYFLRATISRRLNDVVKEMDIVVHTLSTYPELNSSIKMEVGIEDCLHIEFEYNK  
SKYHLKDVIIVGKIYFLLVRIKIKHMEIDI IKRETTGTGPNVYHENDTIAKYEIMDGAPVR  
GESIPIRLFLAGYELTPTMRDINKKFSVRYFLNLVLIDEEERRYFKQQEVVLWRKGDIVR  
KSMHQAAIASQRFEGTTSLSGEVTRPSQLSDNNCRQ

>sp|P63123|VPK18\_HUMAN Endogenous retrovirus group K member 18 Pro protein OS=Homo sapiens  
GN=ERVK-18 PE=3 SV=1

WASQVSENRPVCKAVIQGKQLEGLVDTGADVSIIALNQWPKNWPKQKTVTGLVGIVTASE  
VYQSTEILHCLGPHNQESTVQPMITSIPLNLWGRDLLQQWGAEITMTATLYSPMSQKIMT  
KMGYIPGKGLGKNEDGIKVPIEAKINHGREGTGYPF

>sp|Q9Y6I0|VPK6\_HUMAN Endogenous retrovirus group K member 6 Pro protein OS=Homo sapiens  
GN=ERVK-6 PE=3 SV=2

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VYQSTEILHCLGPDNQESTVQPMITSIPLNLWGRDLLQQWGAEITMPAPSYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKIPVEAKINQEREGINPC

>sp|Q9HBG4|VPP4\_HUMAN V-type proton ATPase 116 kDa subunit a isoform 4 OS=Homo sapiens  
GN=ATP6VOA4 PE=1 SV=2

MVSVFRSEEMCLSQLFLQVEAAAYCCVAELGELGLVQFKDLNMVNSFQKRFVNEVRRCES  
LERILRFLEDEMQNEIVVQLLEKSPLTPLPREMITLETVLEKLEGELEQANQNQQALKQS  
FLELTELKYLKKTQDFFETETNLADDFTEDTSGLLELKAVPAYMTGKLGFIAGVINRE  
RMASFERLLWRICRGNVYLKFSEMDAPLEDPTKEEIQKNIFIIFYQGEQLRQIKKICD  
GFRATVYPCPEPAVERREMLESVNVRLDLITVITQTESHQRLLQEAAANHWSWLKVVQ  
KMKAVYHILNMCNIDVTQQCVIAEIWFPVADATRIKRALEQGMELSGSSMAPIMTTVQSK  
TAPPTFNRTNKFTAGFQNIVDAYGVGSYREINPAPYTIITFPFLFAVMFGDCGHGTVMLL  
AALWMILNERRLLSQKTDNEIWNTEFFHGRYLILLMGIFSITYTGLIYNDCFSKSLNIFGSS  
WSVQPMFRNGTWNTHVMEESLYLQLDPAIPGVYFGNPYPFGIDPIWNLASNKLTFNLNSYK  
MKMSVILGIVQMVFVILSLFNHIYFRRTLNIILQFIPEMIFILCLFGYLVFMIIFKWCC  
FDVHVSQHAPSILIHFINMFLFNYSDSNAPLYKHQQEVQSFFVVMALISVPWMLLIKPF  
ILRASHRKSQQLASRIQEDATENIEGDSSSPSSRSQRTSADTHGALDDHGEEFNFGDVF  
VHQAIHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVMNSGLQTRGWGGIVGVFI

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>sp|Q9UKI3|VPRE3\_HUMAN Pre-B lymphocyte protein 3 OS=Homo sapiens GN=VPREB3 PE=2 SV=1

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AGSAPRYLLYYRSEEDHHRPADIPDRFSAKDEAHNACVLTISPVPEDDADYYCSVGYG

FSP

>sp|Q96QK1|VPS35\_HUMAN Vacuolar protein sorting-associated protein 35 OS=Homo sapiens

GN=VPS35 PE=1 SV=2

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KSYEELYMAISDELHYLEVLTDEFAKGRKVADLYELVQYAGNIIPRLYLLITGVVVYVK

SFPQSRKDILKDLVEMCRGVQHPLRGLFLRNYLLQCTRNLDPDEGEPTDEETTGDISDSM

DFVLLNFAEMNKLWVRMQHGHSDREKRERERQELRILVGTNLVRLSQLEGVNVERYKQ

IVLTGILEQVVNCRDALAQEYLMECIIQVFPDEFHLQTLNPFLRACAEHQNVNVKNI

IIALIDRLALFAHREDGPGIPADIKLFDIFSQQVATVIQSRQDMPSEDVVSLQVSLINLAMK

CYPDRVDYVDKVLTTVEIFNKNLEHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKH

FHPLFEYFDYESRKSMSCYVLSNVLDYNTDIVSQDQVDSIMNLVSTLIQDQPDQPVDP

PEDEFADEQSLVGRFIHLRSEDPDQQYLILNTARKHFGAGGNQRIRFTLPPLVFAAYQLA

FRYKENSKVDDKWEKKCQKIFSFAHQTISALIKAEALPLRLFLQGALAAGEIGFENHE

TVAYEFMSQAFSLYEDEISDSKAQLAAITLIIGTFERMKCFSEENHEPLRTQCALAASKL

LKKPDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECLKKALKIANQCMDPSLQVQLF

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RESPESGPIYEGLLI

>sp|Q86VN1|VPS36\_HUMAN Vacuolar protein-sorting-associated protein 36 OS=Homo sapiens

GN=VPS36 PE=1 SV=1

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ILLSQIVFIEEQAAGIGKSAKIVVHLHPAPPNKEPGPFQSSKNSYIKLSFKEHGQIEFYR

RLSEEMTQRRWENMPVSQSLQTNRGPPQGRIRAVGIVGIERKLEEKRETDKNISEAFED

LSKLMIAKEMVELSKSIANKIKDKQGDITEDETIRFKSYLLSMGIANPVTRETYSGTQ

YHMLAKQLAGILQVPLEERGIMSLTEVYCLVNRARGMELLSPEDLVNACKMLEALKLP

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>sp|Q9NRW7|VPS45\_HUMAN Vacuolar protein sorting-associated protein 45 OS=Homo sapiens

GN=VPS45 PE=1 SV=1

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EIMKHLKAICFLRPTKENVDYIIQELRRPKYTIYFIYFSNVISKSDVKSLAEADEQEVA

EVQEFYGDYIAVNPHLFSNLGCCQGRNWDPAQLSRTTQGLTALLSLKKCPMIRYQLS

SEAAKRLAECVKQVITKEYELFEFRRTVPPLLLILDRCDDAITPLLNQWTYQAMVHELL

GINNNRIDLSRVPGISKDLREVLSAENDEFYANNMYLNAEIGSNIKNLMEDFQKKKPK

EQQKLESIADMKAFVENYPQFKKMSGTVSKHVTVVGELSRLVSERNLLEVSEVEQELACQ

NDHSSALQNIKRLQNPKVTEFDAARLVMLYALHYERHSSNSLPGLMMDLRNKGVSEKYR

KLVSASSEYGGKRVRGSDLFSPKDAVAITKQFLKGLKGVENVYTHQHPFLHETLDHLIKG

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KSFLEEVLASGLHSRSESSQVTSRSASRR

>sp|Q86VR7|VS10L\_HUMAN V-set and immunoglobulin domain-containing protein 10-like OS=Homo

sapiens GN=VSIG10L PE=2 SV=2

MDNPQALPLFLLLASLVGILTLRASSGLQQTNFSSAFSSDSKSSSQGLGVEVPSIKPPSW  
KVPDQFLDSKASAGISDSSWFPEALSSNMSGFWSNVSAEQDLSPVSPFSETPGSEVFP  
DISDPQVPAKDPKPSFTVTKTPASNISTQVSHTKLSVEAPDSKFSPPDDMDKLKSAQSPESK  
FSAETHSAASFPQQVGGPLAVLVGTTIRLPLVIPNPGPPTSLVWRRGSKVLAAGGLGP  
GAPLISLDPAHRDHLRFDAQRGVLELASAQLDDAGVYTAEVIRAGVSQQTHEFTVGVYEP  
LPQLSVQPKAPETEEGAAELRLRCLGWGPGRGELSWSRDGRALEAAESEAETPRMRSEG  
DQLLIVRPVRSDHARYTCRVRSPFGHREAAADVSVFYGDPPTITVSSDRDAAPARFVTA  
GSNVTLRCAAASRPADITWSLADPAEAAVPAGSRLLLPVGPAGHAGTYACLAANPRTGR  
RRRSLNLTVADLPAGPQCSVEGGPGDRSLRFRCSWPGGAPAAQLFQGLPEGIRAGPV  
SSVLLAAVPAHPRLSGVPITCLARHLVATRTCTVTPEAPREVLLHPLVAETRLGAEVAL  
EASGCPPPSRASWAREGRPLAPGGGSRRLRSQDGRKLHIGNFSLDWDLGNYSVLCSGALG  
AGGDQITLIGPSSISWRLQRARDAAVLTWDVERGALISSFEIQAWPDGPALGRTSTYRDW  
VSLLILGPQERSAVVPLPPRNPGTWTFRILPILGGQPGTPSQSRVYRAGPTLSHGAIAGI  
VLGSLGLALLAVLLLLCICCLCRFRGKTPEKKKHPSTLVPVVTPEKKMHSVTPVEISW  
PLDLKVPLEDHSSTRAYQAQTPVQLSL

>sp|Q6UX27|VSTM1\_HUMAN V-set and transmembrane domain-containing protein 1 OS=Homo sapiens GN=VSTM1 PE=1 SV=2

MTAEFLSLLCLGLCLGYEDEKKNEKPPKPSLHAWPSSVVEAESNVTLCQAHSQNVTFL  
RKVNDSGYKQEQSSAENAEFPFDLKPDKAGRYFCAYKTASHEWSESSEHLQLVVDK  
HDELEAPSMKTDTRTIFVAIFSCISILLFLSVFIIYRCSQHSSSEESTKRTSHSKLPE  
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>sp|A6NLU5|VTM2B\_HUMAN V-set and transmembrane domain-containing protein 2B OS=Homo sapiens GN=VTM2B PE=3 SV=2

MEQRNRLGALGYLPPLLLHALLFVADAAFEVPKDVTVREGDDIEMPCAFRASGATSYS  
LEIQWWYLKEPPRELLHELALSVPGARSKVTNKDATKISTVRVQGNDISHRLRLSAVRLQ  
DEGVYECRVSDYSDDDTQEHAQAMLRVLSRFAPPNMQAAEAVSHIQSSGPRRHGPASAA  
NANNAGAASRTTSEPGRGDKSPPGSPPAIDPAVPEAAAAASAAHTPTTTVAAAAAASSA  
SPPSGQAVLLRQRHSGTGGRSYTDPILLSLLLLALHKFLRLLLGH

>sp|Q5GFL6|VWA2\_HUMAN von Willebrand factor A domain-containing protein 2 OS=Homo sapiens GN=VWA2 PE=1 SV=1

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SVGKGSFERSKHFAITVCDGLDISPERVRVGAFQFSSTPHLEFPLDSFSTQQEVKARIKR  
MVFKGGRTELEALKYLLHRGLPGGRNASVPQILIIIVTDGKSQGDVALPSKQLKERVTV  
FAVGVRFRPWEELHALASEPRGQHVLAEQVEDATNGLFSTLSSSAICSSATPDCRVEAH  
PCEHRTLEMVREFAGNAPCWRGSRRTLAVLAAHCPFYSWKRVFLTHPATCYRTTCPGPCD  
SQPCQNGGTCVPEGLDGYQCLCPLAFGGEANCALKLSLECRVDLLFLLDSSAGTTLDGFL  
RAKVVFVKRFVRAVLSSEDSRARVGVATYSRELLVAVPVGEYQDVPDLVWSLDGIPFRGGPT  
LTGSALRQAAERGFSAATRTGQDRPRRVVLLTESHSEDEVAGPARHARARELLLLGVGS  
EAVRAELEETGSPKHVMVYSDPQDLFNQIPELQGKLCRQRPGCRTLQALDLVFMLD TSA  
SVGPENFAQMVSFVRSCALQFEVNPDVTQVGLVVGYSQVQTAFGLDTPTRAAMLRAISQ  
APYLGGVGSAGTALLHIYDKVMTVQRGARPGVPKAVVVLTGGRGAEDAAVPAQKLNRNGI  
SVLVVGVGPVLEGLRRLAGPRDSLIIHVAAYADLRYHQDVLIEWLCGEAKQPVNLCKPSP  
CMNEGSCVLQNGSYRCKCRDGEWEGPHCENRFLRRP

>sp|Q96DN2|VWCE\_HUMAN von Willebrand factor C and EGF domain-containing protein OS=Homo sapiens GN=VWCE PE=2 SV=2

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MGGGHCTLPSCFGCGSGICIAPNVCSCQDGEQGATCPETHGPCGEYGCDLTCNHGGCQE  
VARVCPVGFSMTETAVGIRCTDIDECVTSSCEGHCVNTEGGFVCECGPMQLSADRHSCQ  
DTDECLGTPCQQRCKNSIGSYKCSRTGFHLHGNRHSCVDVNECRRPLERRVCHHSCHNT  
VGSFLCTCRPGFRLRADRVSCFAFPKAVLAPSAILQPRQHPSKMLLLLPEAGRPALSPGH  
SPPSGAPGPPAGVRTTLPSPPTPRLTSSPSAPVWLLSTLLATPVPTASLLGNLRPPSL  
QGEVMGTPSSPRGPESPRLAAGSPSCWHLGAMHESRSRWTEPGCSQCWCEDGKVTCEKVR  
CEAACSHPIPSRDGGCCPCTGCFHSGVVRAGDVFSPNENCTVCVCLAGNVSCISPEC  
PSGPCQTTPQTDCCTCVPVRCYFHGRWYADGAVFSGGGDECTTCVCQNGEVECSFMPCE  
LACPREEWRLGPGQCCFTCQEPTSTGCSLDDNGVEFPIGQIWSPGDPCELICQADGSV  
SCKRTDCVDSCPHPIRIPGQCCPDCSAGCTYTGRIFYNNETFPSVLDPCLSCICLLGSVA  
CSPVDCPITCTYFHPDGECCPVCRDCNYEGRKVVANGQVFTLDDEPCTRCTCQLGEVSCE  
KVPCQRACADPALLPGDCCSSCPDSLSPLEEKQGLSPHGNVAFSKAGRSLHGDTEAPVNC  
SSCPGPPTASPSRVLHLLQLLLRTNLMKTQTLPTSPAGAHGPHSLALGLTATFPGEPGA  
SPRLSPGPSTPPGAPTLPLASPGAPQPPVTPERSFSASGAQIVSRWPPLPGTLLTEASA  
LSMMDPSPSKTIPITLLGPRVLSPTTSLSTALAATTHPGPQQPPVGASRGEESTM

>sp|Q9BTA9|WAC\_HUMAN WW domain-containing adapter protein with coiled-coil OS=Homo sapiens GN=WAC PE=1 SV=3

MMVYARKQQRLSDGCHDRRGDSQPYQALKYSSKSHPSGDRHEKMRDAGDPSPPNKMLR  
RSDSPENKYSdstghskakNVHthrvrERDGGTSYSPQENSHNHSALHSSNSHSSNPSNN  
PSKTSdAPYDSADDWSEHISSSGKYYYNCRTEVSQWEKPKEWLEREQRQKEANKMAVNS  
FPKDRDYRREVMQATATSGFASGMEDKHSSDASSLLPQNILSQTsrHNDRDYRLPRAETH  
SSSTPVQHPIKPVVHPTATPSTVPSSPFTLQSDHQPKKsFDANGASTLSKLPTPTSSVPA  
QKTERKESTSGDKPVSHSCTTPSTSSASGLNPTSAPPTSASAVPVSPVPQSPIPPLLQDP  
NLLRQLLPALQATLQLNNSNVDISKINEVLTAAVTQASLQSIHKLFTAGPSAFNITSLI  
SQAAQLSTQAQPSNQSPMSLTSDASSPRSYVSPRISTPQTNTVPIKPLISTPPVSSQPKV  
STPVVKQGPVSQSATQQPVTADKQQGHEPVSPRSLQRSSSQRSPSPGNHTSNSSNASNA  
TVVPQNSSARSTCSLTPALAAHFSENLIKHVQGWADHAEKQASRLREEAHNMGTIHMSE  
ICTELKNLRSLVRVCEIQTALREQRILFLRQQIKELEKLKNQNSFMV

>sp|Q16864|VATF\_HUMAN V-type proton ATPase subunit F OS=Homo sapiens GN=ATP6V1F PE=1 SV=2  
MAGRGLIAVIGDEDVTGFLGGIGELNKNRHPNFLVVEKDTTINEIEDTFRQFLNRDD  
IGIILINQYIAEMVRHALDAHQQSIPAVLEIPSKEHPYDAAKDSILRRARGMFTAEDLR

>sp|O14598|VCY1\_HUMAN Testis-specific basic protein Y 1 OS=Homo sapiens GN=VCY PE=2 SV=1  
MSPKPRASGPpAKAKETGKRKSSSQSPSPGPKKTTKVAEKGEAVRGRRGKKGAATKMA  
AVTAPEAESGPAAPGPSDQPSQELPQHELPPPEPVSEGTQHDPLSQESELEEPLSKGRPS  
TPLSP

>sp|Q9H9H4|VP37B\_HUMAN Vacuolar protein sorting-associated protein 37B OS=Homo sapiens  
GN=VPS37B PE=1 SV=1

MAGAGSEARFAGLSLVQLNELLEDEGQLTEMVQKMEETQNVQLNKEMTLASNRSLAEGNL  
LYQPQLDTLKARLTQKYQELQVLFEAYQIKKTKLDRQSSASLETLLALLQAEGAKIEED  
TENMAEKFLDGELPLDSFIDVYQSKRKLahMRRVKIEKLQEMVLKGQRLPQALAPLPRL  
PELAPTAPLPYPAPEASGPPAVAPRRIPPPPPVPAGRLATPFTAAMSSGQAVPYPLQC

PPLPPRVGLPTQQGFSSQFVSPYPPPLPQRPPRLPPHQPGFILQ

>sp|Q9Y2B5|VP9D1\_HUMAN VPS9 domain-containing protein 1 OS=Homo sapiens GN=VPS9D1 PE=2 SV=2

MAAAAGDGTVKPLQSAMKLANGAIELDTGNRPREAYTEYLRSIHYSISQVLLEEVETK  
GETVPPDTSKMLKLAQQCLERAQSTAAGLGKTRLKPTMPAAAPIPQAGRHRVYSDEGG  
KLSPFLPPEIFQKLQGAESQSCKKELTPLEEASLQKQKLAAYEARMARLDPSQAMQKTS  
LTLSLQRQMMENLVIKAREETLQRKMEERRRLRQEAANRRFCSQVALTPEEREQALYA  
AILEYEQDHDWPKHWKAKLRNPGDLSLVTSLVSHLLSLPDHPAQLLRRLQCSVYSALY  
PAVSRAAAPAGCCPPTPNPGSRRLRPSQSLHCMLSPPEPSAAPRPQDSPTPLQPGPV  
GSPSPLGDTASGLPDKDSSFEDLEQFLGTSERQGRGRGVQPEPQLQQLKTAVEEIHNAVD  
RLLSLTLLAFEGNLTAASKDRCLACIEEPFSPWLPLLALYRSVHRAREAAALSRSMELY  
RNAPPTAIGIPTKLLPQNPEAKGATGYPYCAAAQELGLLVLESCPKKLECIVRTLRIIC  
VCAEDYCPTPEATPQAGPPPIAAAAIGADDLLPILSFVVLRSGLPQLVSECAALEEFIE  
GYLIGEEGYCLTSLQSALSYVELLPRGGLAK

>sp|P63131|VPK7\_HUMAN Endogenous retrovirus group K member 7 Pro protein OS=Homo sapiens GN=ERVK-7 PE=3 SV=1

WASQVSENRPVCKAIIQGKQFEGLVDTGADVSIIALNQWPKNWPKQKAVTGLVGIGTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPLNLWGRDLLQWGAETMPAPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKVPVEAKINQEREGIGYPF

>sp|Q93050|VPP1\_HUMAN V-type proton ATPase 116 kDa subunit a isoform 1 OS=Homo sapiens GN=ATP6VOA1 PE=1 SV=3

MGELFRSEEMTLAQLFLQSEAAAYCCVSELGELGKVQFRDLNPDVNVFQRKFVNEVRRCEE  
MDRKLRFVEKEIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIEINELKEINTNQEALKR  
NFELETELKFI LRKTQQFFDEMADPDLEEESLLEPSEMGRGTPLRLGFVAGVINRERI  
PTFERMLWRVCRGNVFLRQAEIENPLEDPVTGDYVHKSVEIIFQGDQLKNRVKKICEGF  
RASLYPCPETPQERKEMASGVNTRIDDLQMVNLQTEDHRQRLQAAAKNIRVWFIVRKM  
KAIYHTLNL CNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPSILNMQTNQT  
PPTYNKTNKFTYGFQNIVDAYGIGTYREINPAPYTIITFPFLFAVMFGDFGHGILMTLFA  
VWMVLRESRILSQKNENEMFSTVFSGRYIILLMGVFSMYTGLIYNDCFSKSLNIFGSSWS  
VRPMFTYNWTEETLRGNPVLQLNPALPGVFGGPYPFGIDPIWNIATNKL TFLNSFKMKMS  
VILGIIHMLFGVSLSLFNHIYFKPLNIYFGFIPEIIFMTSLFGYLILIFYKWTAYDAH  
TSENAPSLLIHFINMFLFSYPESGYMLYSGQKGIQCFLVVALLCVPWMLLFKPLVLR  
QYLRRKHLGTLNFGGIRVGNPTEEDAEIIQHDQLSTHSEDAPESEDEVDFGDTMVHQ  
AIHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVIHIGLSVKSLAGGLVLFFFFT  
AFATLTVAIILLIMEGLSAFLHALRLHWVEFQNKFYSGTGFKFLPFSFEHIREGKFEE

>sp|Q9H270|VPS11\_HUMAN Vacuolar protein sorting-associated protein 11 homolog OS=Homo sapiens GN=VPS11 PE=1 SV=1

MAAYLQWRRVFVFDKELVKEPLSNDGAAPGATPASGSAASKFLCLPPGITVCDSGRGLV  
FGDMEGQIWFLPRSLQLTGFAQYKL RVTHLYQLKQHNILASVGEDEEGINPLVKIWNLEK  
RDGGNPLCTRIFPAIPGTEPTVVSCLTVHENLNFMAIGFTDGSVTLNKGDITDRHSKTQ  
ILHKGNYPTGLAFRQAGKTTHLFVVTENVQSYIVSGKDYPRVELDTHGGLRCSALSD  
PSQDLQFIVAGDECVLYLPDERGPCFAFEGHKLIAHWFRGYLIIVSRDRKVS PKSEFTS  
RDSQSSDKQILNIYDL CNKFIAYSTVFEDVDVLAEWGSLYVLTRDGRVHALQEKDTQTK  
LEMLFKKNLFEMAINLAKSQHLSDGLAQIFMQYGDHLYSKGNHDGAVQQYIRTIGKLEP

SYVIRKFLDAQRIHNL TAYLQTLHRQSLANADHTLLLN CYTKLKDSSKLEEFIKKKSES  
EVHFDVETAIKVLRQAGYYSHALYLAENHAHHEWYLKIQLEDIKNYQEALRYIGKLPFEQ  
AESNMKRYGKILMHHEPEQTTQLLKGLCTDYRPSLEGRSDREAPGCRANSEEFIP IFANN  
PRELKAFLEHMSEVQPDSPQGIYDTLLELRLQNWAEKDPQVKEKLHAEATISLLKSGRFC  
DVFDKALVLCQMDFQDGVLYLYEQGKLFQQIMHYHMQHEQYRQVISVCERHGEQDPSLW  
EQALS YFARKEEDCKEYVAAVLKHIENKNLMPPLL VVQTLAHNSTATLSVIRDYLVQKLQ  
KQSQQIAQDELVRVRYREETTRIRQEIQELKASPKIFQKTKCSICNSALELPSVHFLCGH  
SFHQHCFESYSESAD CPTCLPENRKVMDMIRAQEQKRDLDHDFQHQLRCSNDSFSVIAD  
YFGRGVFNKLTLLTDPPTARLTSSLEAGLQRDLLMHSRRGT

>sp|Q9P253|VPS18\_HUMAN Vacuolar protein sorting-associated protein 18 homolog OS=Homo sapiens GN=VPS18 PE=1 SV=2

MASILDEYENSLRSASVLQPGCPVSGIPHSGYVNAQLEKEVP IFTKQRIDFTP SERITSL  
VVSSNQLCMSLGKDTLLRIDLGKANEPNHVELGRKDDAKVHKMFLDHTGSHLLIALSSTE  
VLYVNRNGQKVRPLARWKGQLVESVGWNKALGTESSTGPILVGTAQGHIFEELSASEGG  
LFGPAPDLYFRPLVYLNEEGPAPVCSLEAERGPDGRSFVIATTRQRLQFQIGRAAEGAE  
AQGFSGLFAAYTDHPPPFREFPSNLGYSELAFYTPKLSAPRAFAWMMGDGVLYGALDCG  
RPDSSLSEERVWEYPEGVGPGASPLAIVLTQFHFLLLADRVEAVCTLTGQVVL RDHFL  
EKFGLKHMVKDSSTGQLWAYTERAVFRYHVQREARDVWRTYLD MNRFDLAKEYCRERPD  
CLDTVLAREADFCFRQRRYLESARCYALTQSYFEEIALKFLEARQEEALAEFLQRKLASL  
KPAERTQATLLTTWLT ELYLSRLGALQGDPEALTYRETKECFRTFLSSPRHKEWLFASR  
ASIHELLASHGDTHEMVYFAVIMQDYERVVAYHCQHEAYEEALAVLARHRDPQLFYKFSP  
ILIRHIPRQLVD AWIEMGSRLDARQLIPALVNYSQGGEVQQVSQAIRYMEFCVNVLGETE  
QAIHNYLLSLYARGRPDSSLAYLEQAGASPHRVHYDLKYALRLCAEHGHHRACVHVYKVL  
ELYEEAVDLALQVDVDLAKQCADLPEEDEELRKKLWLKIARHVVQEEEDVQTAMACLASC  
PLLKIEDVLPFFPDFVTIDHFKEAICSSLKAYNHHIQELQREMEEATASAQRIRRD LQEL  
RGRYGTVEPQDKCATCDFLLNRPFYLF LCGHMFHADCLLQAVRPGLPAYKQARLEELQR  
KLGAAPPPAKGSARAKEAEGGAATAGPSREQLKADLDELVA AECVYCGELMIRSIDRPFI  
DPQRYEEEQLSWL

>sp|Q9UK41|VPS28\_HUMAN Vacuolar protein sorting-associated protein 28 homolog OS=Homo sapiens GN=VPS28 PE=1 SV=1

MFHGIPATPGIGAPGNKPELYEEVKLYKNAREREKYDNMAELFAVVKTMQALEKAYIKDC  
VSPSEYTAACSRLLVQYKAAFRVQVQGEISSIDEFCRKFR LDCPLAMERIKEDRPITIKD  
DKGNLNR CIADVSLFITVMDKLRLEIRAMDEIQPDLRELMETMHRMSHLPDFEGRQTV  
SQWLQTLSGMSASDELDDSQVRQMLFDLESAYNAFNRLHA

>sp|Q92558|WASF1\_HUMAN Wiskott-Aldrich syndrome protein family member 1 OS=Homo sapiens GN=WASF1 PE=1 SV=1

MPLVKRNI DPHRLCHTALPRGIKNELECVTNISLANIIRQLSSLSKYAEDIFGELFNEAH  
SFSFRVNSLQERVDRLSVSVTQLDPKEEELS LQDITMRKA FRSTIQDQQLFDRKTLPIPI  
LQETYDVCEQPPPLN ILTPYRDDGKEGLKFYTNPSYFFDLWKEKMLQDTE DKRKEKRKQK  
QKNLDRPHEPEKVPRAPHDRRREWQKLAQGP ELAEDDANLLHKHIEVANGPASHFETRPQ  
TYVDHMDGSYSLSALPFSQMSELLTRA EERV LVRPHEPPPPPPMHGAGDAKPIPTCISSA  
TGLIENRPQSPATGRTPVFVSPTPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPA  
TALQAPAVPPPPAPLQIAPGV LHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEV  
QGLPPPPPPPLPPPGIRPSSPVTVTALAHPPSG LHPTPSTAPGPHVPLMPPSPPSQVIP



ASEPKRHPSTLPVISDARSVLLEAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIA  
VEYSDSEDDSEFDEVDWLE

>sp|Q6VEQ5|WASH2\_HUMAN WAS protein family homolog 2 OS=Homo sapiens GN=WASH2P PE=2 SV=2  
MTPVRMQHSLAGQTYAVPLIQPDLRREEAVQQMADALQYLQKVSQDIFSRSISQQVEQSRS  
QVQAIGEKVSLAQAKIEKIKGSKKAIKVFSKAKYPAPERLQEYGSIFTGAQDPGLQRRPR  
HRIQSKHRPLDERALQEKLKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLLFNTTE  
NLYKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISKREQLQVQVPENYFYVPDLGQ  
VPEIDVPSYLPDLPGIANDLMIADLGPPIAPSAPGTIPELPTFHTVEAEPLKVDLQDGV  
LTPPPPPPPPPAPEVLASAPLPSTAAPVGGARQDDSSSSASPSVQGAPREVVDPSG  
GRATLLESIRQAGGIGKAKLRSMKEREKLEKKKQKEQEQVRATSQGGHMSDLFNKLVMR  
KGISGKGPAGGPGGAFARVSDSIPPLPPQPPQAEDEDDWES

>sp|Q96G27|WBP1\_HUMAN WW domain-binding protein 1 OS=Homo sapiens GN=WBP1 PE=1 SV=1  
MARASSNGNGSEEAWGALRAPQQQLRELCPGVNNQPYLCESGHCCGETGCCTYYYELWWFW  
LLWTVLILFSCCAFRHRAKLRLQQQQRQREINLLAYHGACHGAGPFTGSLLDLRFLS  
TFKPPAYEDVVRHPTPPPPYTVAPGRPLTASSEQTCCSSSSCPAHFEGTNVEGVSSHQ  
SAPPHQEGEPGAGVTPASTPPSCRYRRLTGDSGIELCPCPASGEGEPVKEVRVSATLPDL  
EDYSPCALPPESVPQIFPMGLSSSEGDI

>sp|Q6UE05|WBS28\_HUMAN Williams-Beuren syndrome chromosomal region 28 protein OS=Homo sapiens GN=WBS28 PE=2 SV=2  
MEALPPVRSSLLGILLQVTRLVLLVQNRDHLNFKLLKINLFNHWVSGLAQEARGSCNW  
QAHLPLGAAACPLGQALWAGLALIQVPVWLVLQGPRLMWAGMWGSTKGLGLALLSAWEQL  
GLSVAIWTDLFLSCLHGLMLVALLLVVVTWRVCQKSHCFRLGRQLSKALQVNCVVRKLLV  
QLRRLYWWWETMTALTSWHLAYLITWTTCLASHLLQAAFEHTTQLAEAQEVEPQEVSGSS  
LLPSLSASSDSESGTVLPEQETPRE

>sp|Q9H1Z4|WDR13\_HUMAN WD repeat-containing protein 13 OS=Homo sapiens GN=WDR13 PE=1 SV=2  
MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSQLLRENAKAGHPALRRQYLRLRGQ  
LLGQRYGPLEPGSARAYSNSIVRSSRTTLDRMEDFEDDPRALGARGHRSVSRGSYQLQ  
AQMNRAVYEDRPPGSVVPTSAAEASRAMAGDTSLSENYAFAGMYHVFQHVDEAVPRVRF  
ANDDRHRLACCSLDGSIQLCQLVPAPPTVLRVLRGHTRGVSDFAWSLSNDILVSTSLDAT  
MRIWASEDGRCIREIPDPDSAEELCCTFPVNNLTVVGNKHNHVMNISTGKKVKGGS  
SKLTGRVLALSFDAPGRLLWAGDDHGSVFSFLFDMATGKLTAKRLVVHEGSPVTSISAR  
SWVSREARDPSLLINACLNKLLYRVVDNEGTLQLKRSFPIEQSSHPVRSIFCPLMSFRQ  
GACVVTGSEDMCVHFFDVERAAKAAVNKLQGHSAVLDVSFNCDESLASSDASGMVIVW  
RREQK

>sp|075083|WDR1\_HUMAN WD repeat-containing protein 1 OS=Homo sapiens GN=WDR1 PE=1 SV=4  
MPYEIKKVFAASPQVERGVSKIIGGDPKGNFLYTNGKCVILRNIDNPALADIYTEHAHQ  
VVVAKYAPSGFYIASGDVSGKLRIWDTTQKEHLLKYEQPFAGKIKDIAWTEDSKRIAVV  
GEGREKFGAVFLWDSGSSVGEITGHNKVINSVDIKQSRPYRLATGSDNCAAFFEGPPFK  
FKFTIGDHSRNVNVRVSPDGNRFATASADGQIYIDGKTGEKVCALGGSKAHDGGIYAI  
SWSPDSTHLLSASGDKTSKIWDVSVNSVSTFPMGSTVLDQQLGCLWQKDHLLSVSLSGY  
INYLDNRNPSKPLHVIKHSKSIQCLTVHKNKGKSYIYSGSHDGHINYWDSETGENDSFA  
GKGHTNQVSRMTVDESGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGY  
AVVVCIGQIVLLKQKRCFSIDNPGYEPEVAVHPGGDTVAIGVDGNVRLYSILGTTLK  
DEGKLEAKGPVTDVAYSHDGAFLAVCDASKVTVFVSADGYSENNVFYGHAKIVCLAW

SPDNEHFASGGMDMMVYVWTLSDPETRVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVK  
EWTITY

>sp|Q8TBZ3|WDR20\_HUMAN WD repeat-containing protein 20 OS=Homo sapiens GN=WDR20 PE=1 SV=2

MATEGGKEMNEIKTQFTTREGLYKLLPHSEYSRPNRVPFNSQGSNPVRVSFVNLDQSG  
NGDRLCFNVGRELYFYIYKGVKKAADLSKPIDKRIYKGTQPTCHDFNHLTATAESVSLV  
GFSAGQVQLIDPIKKETSKLFNEERLIDKSRVTCVKWVPGSESLFLVAHSSGNMYLYNVE  
HTCGTTAPHYQLLKQGESFAVHTCKSKSTRNPLLKWTVGEALNEFAFSPDGKFLACVSQ  
DGFLRVFNFDSELHGTMTKSYFGGLLCVCWSPDGKYIVTGGEDDLTVVSFVDCRVIARG  
HGHKSWSVVAFDPYTTVEEGDPMFEFSGSDEDFQDLLHFGRDRANSTQSRLSKRNSTD  
RPVSVTYRFGSVGQDTQLCLWDLTEDILFPHQPLSRARTHNVMNATSPAGSNGNSVTT  
PGNSVPPPLPRNSLPHSAVSNAGSKSSVMDGAIASGVSKFATLSLHDKRERHHEKDHKR  
NHSMGHISSESKDLNLVTKTKTDPAKTLGTPLCPRMEDVPLEPLICKKIAHERLTVLI  
FLEDCIVTACQEGFICTWGRPGKVVSFNP

>sp|Q9C0J8|WDR33\_HUMAN pre-mRNA 3' end processing protein WDR33 OS=Homo sapiens GN=WDR33  
PE=1 SV=2

MATEIGSPPRFFHMPRFQHQAPRQLFYKRPDFAQQQAMQQLTFDGKMRKAVNRKTIDYN  
PSVIKYLENRIWQRDQDMRAIQPDAGYYNDLVPPIGMLNPMNAVTTKFVRTSTNKVKC  
PVFVVRWTPEGRRLVTGASSGEFTLWGLTFNFETILQAHDSPVRAMTWSHNDMWMLTAD  
HGGYVKYWQSNMNNVKMFQAHKEAIREASFPTDNKFATCSDDGTVRIWDFLRCHERIL  
RGHGADVCKVDWHPTKGLVVSQKSDSQPIKFWDPKTGQSLATLHAHKNTVMEVKLNNG  
NWLLTASRDHLCKLFDIRNLKEELQVFRGHKKEATAVAWHPVHEGLFASGGSDGSLLFWH  
VGVEKEVGGMEMAHEGMIWSLAWHPLGHILCSGSDHTSKFWTRNRPDGMKRDYLNLL  
PGMSEDEGVEYDDLEPNSLAVIPGMGIPEQLKLAMEQEQMGKDESNEIEMTIPGLDWGMEE  
VMQKDQKKVPQKKVPYAKPIPAQFQQAWMQNKVPIAPNEVLNDRKEDIKLEKKKTQAE  
IEQEMATLQYTNPQLLEQLKIERLAQKQVEQIQPPSSGTPLLGPQPFPGQGPMSQIPQG  
FQQPHPSQQMPMNMAQMGPQPGQFRPPGPQGMGPQGPPLHQGGGGPQGMGPQGPQ  
PPQGLPRPQDMHGPQGMQRHPGPHGLPGQGPQGPQSSGPQGHMGPQGPQGHIGPQ  
GPPGPQGHLPQGPQGTQGMQGPQGPQGMQGPQGPQGPQGPQGPQGPQGPQGPQGPQ  
PRGMQGPQGPQPRENQGPAPQGMIMGHPPQEMRGPHPPGGLLGHGPQEMRGQEIIRGMQGP  
PQGSMLGPPQELRGPPGSQSQQGPPQGSGLPPPQGMQGPQGPQGPQNPARGPHPSQGP  
PFQQQKTPLLGDGPAPFNQEGQSTGPPPLIPGLGQQAQGRIPPLNPGQGPQGNKGS  
RGPDERFPRDPEDPRFRGRREESFRRGAPPRHEGRAPPRGRDGFPGPEDFGPEENFDASE  
EAARGRDLRGRGRTPRGGRKGLLTPDEFPRFEGGRKPDSDGNREPGPGHEHFRDTPR  
PDHPPHDGHSPASRERSSSLQGMASLPPRKRPHWDGPGTSEHREMEAPGGPSEDGKG  
GRGGPGPAQRVPSKGRSSSLDGEHHDGYHRDEFPGGPPGSGTPSRGGRSGSNWGRGSNMN  
SGPPRRGASRGGGRGR

>sp|Q9Y2I8|WDR37\_HUMAN WD repeat-containing protein 37 OS=Homo sapiens GN=WDR37 PE=1 SV=2

MPTESASCSTARQTKQKRKSHSLIRRTNSSEQERTGLPRDMLQDQSKLPSSVRSTLLE  
LFGQIEREFENLYIENLELRREIDTLNERLAAEGQAIDGAELSKGQLKTKASHSTSQLSQ  
KLKTTYKASTSKIVSFKTTTSRAACQLVKEYIGHRDGIWDVSVAKTQPVVLGTASADHT  
ALLWSIETGKCLVKYAGHVGVSNSIKFHPSEQLALTASGDQTAHIWRYAVQLPTQPVAD  
TSISGEDEVECDKDEPDLDGDVSSDCPTIRVPLTSLKSHQGVVIASDWLVGGKQAVTAS

WDR48\_HUMAN WD repeat-containing protein 48 OS=Homo sapiens GN=WDR48 PE=1 SV=1  
WDRTANLYDVETSELVHSLTGHQDELTHCCTHPTQRLVVTSSRDTTFRLWDFRDPSIHSV  
NVFQGHTDVTSAVFTVGDNVVSGSDDRTVKVWDLKNMRSPIATIRTDSAINRINVCVGQ  
KIIALPHDNRQVRLFDMSGVRLARLPRSSRQGHRRMVCCSAWSEDPVCNLFCTCGFDRQA  
IGWNINIPALLQEK

>sp|Q8TAF3|WDR48\_HUMAN WD repeat-containing protein 48 OS=Homo sapiens GN=WDR48 PE=1 SV=1  
MAAHHRQNTAGRRKVQVSYVIRDEVEKYNRNGVNALQLDPALNRLFTAGRDSIIIRIWSVN  
QHKQDPYIASMEHHTDWVNDIVLCCNGKTLISASSDTTVKVWNAHKGFCMSTLRTHKDYV  
KALAYAKDELVASAGLDRQIFLWDVNTLTALTASNNTVTSSLSGNKDSIYSLAMNQLG  
TIIVSGSTEKVLRVWDPRCTCAKLMKLGHTDNVKALLNRDGTQCLSGSSDGTIRLWSLG  
QQRCIATYRVHDEGVWALQVNAFTHVYSGGRDRKIYCTDLRNPDIRVLICEEKAPVLKM  
ELDRSADPPPAIWVATTSTVNKWLKGIHNFASGDYDNDCTNPITPLCTQPDQVIKGG  
ASIIQCHILNDRKHILTKDTNNNVAYWDVLKACKVEDLGKVFEDFEIKKRFKMVVYPNWF  
SVDLKTGMLTITLDESDCAAWWSAKDAGFSSPDGSDPKNLGGLLLQALLEYWPRTHVN  
PMDEEENEVNHVNGEQENRVQKNGYFQVPPHTPVIFGEAGGRTLFRLLCRDSGGETESM  
LLNETVPQWVIDITVDKNMPKFNKIPFYLQPHASSGAKTLKKDRLSASDMLQVRKVMHEV  
YEKIINLDNESQTTSSSNNEKPGEQEKEEDIAVLAEKIELLCQDQVLPNMDLRTVKHF  
IWKSGGDLTLHYRQKST

>sp|Q9H6Y2|WDR55\_HUMAN WD repeat-containing protein 55 OS=Homo sapiens GN=WDR55 PE=1 SV=2  
MDRTCEERPAEDGSDEEDPDSMEAPTRIRDTPEDIVLEAPASGLAFHPARDLLAAGDVG  
DVVFVFSYSCQEGETKELWSSGHHLKACRAVAFSEDGQKLITVSKDKAIHVL DVEQQLER  
RVSKAHGAPINLLLLVDENVLATGDDTGGICLWDQRKEGPLMDMRQHEEYIADMALDPAK  
KLLLTASGDGCLGIFNIKRRRFELLSEPQSGDLTSVTLMKWGKKVACGSSEGTIYLFNWN  
GFGATSDRFALRAESIDCMVPVTESSLCTGSTDGVIRAVNILPNRVGSGVQHTGEPVEE  
LALSHCGRFLASSGHDQRLKFWDMAQLRAVVDDYRRRKKKGGLRALSSKTWSTDDFFA  
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>sp|Q8TBY9|WDR66\_HUMAN WD repeat-containing protein 66 OS=Homo sapiens GN=WDR66 PE=2 SV=2  
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EGEEEGKEDKKIVMEETEEKAGEVQEKEASGIEETTVEPQEV TASMIRLETQITDSQSI  
TSGIFPKTQRGSKSLSLQLEDAETDELLRDLSTQIEFLDLQISPEEQQISSPERQPSG  
ELEEKTD RMPQDELGQERRDLEPENREEGQERRVSDIQSKAGISRESLVSTTEDILFQK  
DKSTPVYPLTMTWSFGWNSSLPVYYIREERQRVLLYVCAHTAIYNVFRNNQYHLQGHAN  
IISCLCVSEDRRWIATADKGPDCLVIIWDSFTGIPVHTIFDSCPEGNGIMAMAMTHDAKY  
LATISDAEVQKVCIWKWLAVETPACTLELPTEYGVQNYVTFNPTNNKELVSNKTRAIY  
YAWYEERDTLAHSAPLLTEKTFNKLVGKFSQSIFHLNLQILSATMEGKLVVWDIHRPPS  
SASTFLGFPYIKPCKLVHLQKEGITVLTIDSYIVTGDIGKNIKFYDHTLSIVNWYSHLK  
LGAIRTLSFSKTPATPPTEKSNYPDCTLKGDLFVLRNFIIGTSDAAVYHLTTDGTKLEK  
LFVEPKDAICAISCHPYQPLIAIGSICGMIVWNYENKQYLFSRVFEKGLGVQSLTYNPE  
GALLGAGFTEGTVYILDAMSLENESPEPFKYSRTSVTHISFSHDSQYMATADRSFTVAVY  
MLVVRNGQRVWEYLARLRSHRKSIRSLLFGVYLD SNEPRLLSLGTDRLLEIYDLLRSYKD  
HLEVLDIHHTDQGCYPTCMVWYPLTRELFLICNSGYKVKLFNATTMCRKTLLGPAYG  
SPIEQTQVLPVRSM AELQKRYLVFINRDKVGLQILPVDGNPHKTS AIVCHPNGVAGMAVS  
YDGCYAFTAGGHDRSVVQWKITLSVLEAAVSLGGEDLTPFYGLLSGGREGKFYRELEDYF  
YYSQLRSQGIDMETRKVSEHICSELFPVMRAIGFYPSEEKIDDI FNEIKFGEYVDTGK  
LIDKINLPDFLKVYLNHKPPFGNTMSGIHKSF EVLGYTNSKGKKAIRREDFLRLLVTKGE

HMTEEEMLD CFASL FGLNPEGWKSE PATCSVKGSEIC LEEELPDEITAEIFATEILGLTI  
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>sp|Q562E7|WDR81\_HUMAN WD repeat-containing protein 81 OS=Homo sapiens GN=WDR81 PE=1 SV=2

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LQRVYGCSFLPVGETTQCPSYAREGPCPPRGSPACPSLLRAEALLESPEMLYVVHPYVQF  
SLHDVVTFSPAKL TNSQAKVLFILFRVLRAMDACHRQGLACGALSLYHIAVDEKLCSELR  
LDLSAYERPEEDENEAPVARDEAGIVSQEEQGGQPGQPTGQEELRSLVDWVHGRISNF  
HYLMQLNRLAGRRQGDPNYHPVLPWVVDFTTPHGRFRDLRKS KFRLNKGDKQLDFTYEMT  
RQAFVAGGAGGGEPPHVPHHISDVLSDITYYVYKARRTPRSVLCGHVRAQWEPHEYPASM  
ERMQNWTPEDECIPEFYTDPSIFRSIHPDMPDLDPAPWCSSSQEFVAAHRALLESREVS RD  
LHHWIDLTFGYKLQKGEAVKEKNVCLHLVDAHTLASYGVVQLFDQPHPQRLAGAPALAP  
EPPLIPKLLVQTIQETTGREDFTENPGQLPNGVGRPVLEATPCEASWTRDRPVAGEDDLE  
QATEALDSISLAGAGDQLGSSSQASPGLLSFSVASASRPGRNKAAGADPGEGEEGRIL  
LPEGFNPMQALEELEKTGNFLAKGLGGLLEVPEQPRVQPAVPLQCLLRDMQALGVLLAE  
MVFATRVRTLPQDAPLWVRFAQVRGLCTRHPKEVPVSLQPVLDTLLQMSGPEVPMGAERG  
KLDQLFEYRPVSQGLPPPCPSQLLSPFSSVVPFPYFPALHRFILLYQARRVEDEAQGRE  
LVFALWQQLGAVLKDITPEGLEILLPFVLSLMSEEHTAVYTAWYLFEPVAKALGPKNANK  
YLLKPLIGAYESPCQLHGRFYLYTDCFVAQLMVRLGLQAFTHLLPHVLQVLAGAEASQE  
ESKDLAGAAEEEEESGLPGAGPGSCAFGEEIPMDGEPPASSGLGLPDYTS GVSFHDQADLP  
ETEDFQAGLYVTESPPQEA EAVSLGRLSDKSSTSETSLGEERAPDEGGAPVDKSSLRSG  
DSSQDLKQSEGSEEEEEEDSCVVEEEEGEQEEVTGASELTS DTVLSMETTVAGGSGG  
DGESEEEALPEQSEGKEQKILLDTACKMVRWLSAKLGPTVASRHVARNLLRLLTSCYVGP  
TRQQFTVSSGESPPLSAGNIYQKRPVLGDIVSGPVLSCLLH IARLYGEPVLT YQYLPYIS  
YLVAPGSASGPSRLNSRKEAGLAAVTLTQKII VYLSDTTMDILPRISHEVLLPVLSFL  
TSLVTGFPSGAQARTILCVKTI SLIALICLRIGQEMVQQHLSEPVATFFQVFSQLHEL RQ  
QDLKLDPA GRGEGQLPQVVFSDGQRPVDPALLDELQKVFTLE MAYTIYVPFSCLLGDI I  
RKII PNHEL VGELAA LYLESISPSSRN PASVEPTMPGTGPEWDPHGGGCPQDDGHS GTFG  
SVLVGNRIQIPNDSRPENPGPLGISGVGGGLGSGSDDNALKQELPRSVHGLSGNWLAY  
WQYEIGVSQQDAHFFHQIRLQSFPGHSGAVKCVAPLSEDFFLSGSKDRTVRLWPLYNY  
GDGTSETAPRLVYTQHRKS VFFVGQLEAPQHVVSCDGAHVHWPFTGKTLRTVEPLDSRV  
PLTAVAVMPAPHTSITMASSDSTLRFVDCRK PGLQHEFRLGGGLN PGLVRALAI SPGRS  
VVAGFSSGFMVLLDTRTGLVLRGWPAHEGDILQIKAVEG SVLVSSSDHSLTVWKELEQK  
PTHHYKASDPIHTFDLYGSEVVTGTVSNKIGVCSLLEPPSQATTKLSSENFRGTLTSLA  
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>sp|Q6UXN9|WDR82\_HUMAN WD repeat-containing protein 82 OS=Homo sapiens GN=WDR82 PE=1 SV=1

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SKKYGVDLIRYTHAANTVYSSNKIDDTIRYLSLHDNKYIRYFPGHSKRVALSMSPVDD  
TFISGSLDKTIRLWDLRSPNCQGLMHLQGKPVCSFDPEGLIFAAGVNSEMVKLYDLRSFD  
KGP FATFKMQYDR TCEWTGLKFSNDGKLILISTNGSFIRLIDAFKGVVMHTFGGYANSKA  
VTLEASFTPDSQFIMIGSEDGKIHVWNGESG IKVAVLDGKHTGPITCLQFNPKFMTFASA  
CSNMAFWLPTIDD

>sp|Q8N5D0|WDTC1\_HUMAN WD and tetratricopeptide repeats protein 1 OS=Homo sapiens GN=WDTC1 PE=1 SV=2

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LLASGSDDQHTIVWDPLHHKKLLSMHTGHTANIFSVKFLPHAGDRILITGAADSKVHVHD  
LTVKETIHMFGDHTNRVKRIATAPMWPNTFWSAEDGLIRQYDLRENSKHSEVLIDLTEY  
CGQLVEAKCLTVNPQDNNCLAVGASGPFVRLYDIRMIHNRKSMKQSPSAGVHTFCDRQK  
PLPDGAAQYYVAGHLPVKLPDYNRLRVLVATYVTFSPNGTELLVNMGGEQVYLFDLTYK  
QRPYTFLLPRKCHSSGEVQNGKMSITNGVSNGLHLHSNGFRLPESRGHVSPQVELPP  
YLERVKQQANEAFACQQTQAIQLYSKAVQRAPHNAMLGNRAAAYMKRWGDHYDALR  
DCLKAISLNPCHLKAHFRLARCLFELKYVAEAECLDDFKGKFPEQAHSSACDALGRDIT  
AALFSKNDGEEKKPGGGAPVRLRSTSRKDSISEDEMVLRETSYDYQFRYCGHCNTTDDI  
KEANFFGSNAQYIVSGSDDGSFFIWEKETTNLVRVLQGDSEIVNCLQPHPSYCFLATSGI  
DPVVRLWNPRPESEDLTGRVVEDMEGASQANQRRMNADPLEVMMLNMGYRITGLSSGGAG  
ASDDEDSSEGQVQCRPS

>sp|Q9ULE0|WWC3\_HUMAN Protein WWC3 OS=Homo sapiens GN=WWC3 PE=1 SV=3

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HKMCEDDSRSYASSFSGYSTNTKYDPHQIKAEIASRRDRLSRLKRELTQMKQELQYKEKG  
VETLQEIDRKMSSTHTSYKLDEAQAIMSELRTIKKAICTGEKERRDLMHSLAKLTDSFKN  
SCSVTDSLVDFFPHVGVPGDAGVPQQFCDAGSQTDIIIGEFVDDKTRLVDRVRLNWQYEE  
ARKRVANIQQQLARLDNESWPSTAEADRDLQLIKEKEALLQELQLIIAQRRSAGDVARL  
EEERERLEEELRRARATSAQGATERILLQEKRNCLLMQLEEATRLTSYLSQLKSLCAST  
LTVSSGSSRGLASSRGLASSRGLSSVSFTDIYGLPQYEKPDAGSLLRFDLIPFDS  
LGRDAPFSEPPGSGFHKQRRSLDTPQSLASLSSRSSLSSLPSSPLDTPFLPASRDSP  
LAQLADSCEGPGGLGALDRLRAHASAMGDEDLPGMAALQPHGVPGDGEPHERGPPPASAP  
VGGTVTLREDSAKRLERRARRISACLSDSLSDSGVFEPLTKRNDAEEPAYGDTASNG  
DPQIHVGLLRDSGECLLVHVLQKPNAGLAVKEDCKVHIRVYLPPLDSGTPNTYCSKAL  
EFQVPLVFNEVFRIPVHSSALTLKSLQLYVCSVTPQLQEELLGIAQINLADYDSLSEMQ  
RWHSVQVFTSSEPSRTREAGCAGESSARDPAHTISISGKTDAVTVLLARTTAQLQAVERE  
LAEERAKLEYTEEEVLEMERKEEQAEAISERSWQADSVDSGCSNCTQTSPPYPEPCCMGI  
DSILGHPFAAQAGPYSPEKFQPSPLKVDKETNTEDLFLEEAASLVKERPSRRARGSPFVR  
SGTIVRSQTFSPGARSQYVCRLYRSDSDSSTLPRKSPFVRNTLERRTLRYKQSCRSSLAE  
LMARTSLDLELDLQASRTRQRQLNEELCALRELQRLEDAQLRGQTDLPWVLRDERLRG  
LLREAERQTRQTKLDYRHEQAAEKMLKKASKEIYQLRGQSHKEPIQVQTFREKIAFFTRP  
RINIPPLPADDV

>sp|Q9NZC7|WBOX\_HUMAN WW domain-containing oxidoreductase OS=Homo sapiens GN=WBOX PE=1 SV=1

MAALRYAGLDDTSEDELPPGWEERTTKDGWVYYANHTTEKTQWEHPKTGKRKRVAAGDLP  
YGWEQETDENGQVFFVDHINKRTTYLDPRLAFTVDDNPTKPTTRQRYDGSTTAMEILQGR  
DFTGKVVVVGTGANSIGFETAKSFALHGAHVILACRNMARASEAVSRILEEWHKAKVEAM  
TLDLALLRSVQHFAEAFKKNVPLHVLVCNAATFALPWSLTKDGLTTFQVNHLGHFYLV  
QLLQDVLCRSAPARVIVVSSESHRFTDINDSLGKLDFSRLSPTKNDYWAMLAYNRSKLCN  
ILFSNELHRRLSRPGVTSNAVHPGNMYSNIHRSWWVYTLLFTLARPFKSMQQAATT  
YCAAVPELEGLGGMFNNCCRCMPSPEAQSEETARTLWALSERLIQERLGSQSG

>sp|P78423|X3CL1\_HUMAN Fractalkine OS=Homo sapiens GN=CX3CL1 PE=1 SV=1

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RAIILETRQHRLFCADPKEQWVKDAMQHLDQRQAAALTRNGGTFEKQIGEVKPRTPAAGG  
MDESIVLEPEATGESSSSLEPTSSQEAQRALGTSPELPTGVTGSSGTRLPPTPKAQDGGP  
VGTELFRVPPVSTAATWQSSAPHQPGPSLWAEAKTSEAPSTQDPSTQASTASSPAPEENA  
PSEGQRVWGQGSPPENSLEREEMGPVPAHTDAFQDWGPGSMAHVSVPVSSEGTPSRE  
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>sp|Q8WTP9|XAGE3\_HUMAN X antigen family member 3 OS=Homo sapiens GN=XAGE3 PE=1 SV=1  
MIWRGRSTYRPRRVSPPPELIGPMLEPGDEEPQQEPPPTESRDPAPGQEREEDQGAAE  
TQVPDLEADLQELSQSKTGGECGNPDDQGKILPKSEQFKMPEGGDRQPQV

>sp|Q9NZ43|USE1\_HUMAN Vesicle transport protein USE1 OS=Homo sapiens GN=USE1 PE=1 SV=2  
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YSWKVDFLKGMLQAEKLTSSSEKALANQFLAPGRVPTTARERVPATKTVHLQSRARYTSE  
MRSELLGTDAEPEMDVRKRTGVAGSQPVSEKQLAAELDLVLQRHQNLQEKLAEEMGLA  
RSLKTNLTAAQSVIKDNQTLSHSLKMADQNLEKLTESERLEQHTQKSVNWLLWAMLII  
VCFIFISMILFIRIMPKLK

>sp|Q15853|USF2\_HUMAN Upstream stimulatory factor 2 OS=Homo sapiens GN=USF2 PE=1 SV=1  
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DHNIQYQFRTETNGGQVTVYRVVQVTDGQLDGGQDGTAGAVSVVSTAAGGQQAVTQVGVD  
GAAQRPGPAAASVPPGPAAPFLAVIQNPFSNGGSPAEEAVSGEARFAYFPASSVGD  
TAVSVQTTDQSLQAGGQFYVMMTPQDVLQGTGTQRTIAPRTHPYSPKIDGTRTPRDERRRRAQH  
NEVERRRRDKINNWIVQLSKIIPDCNADNSKTGASKGGILSKACDYIRELRQTNQRMQET  
FKEAERLQMDNELLRQIEELKNENALLRAQLQQHNLEMVGEGRQ

>sp|P22415|USF1\_HUMAN Upstream stimulatory factor 1 OS=Homo sapiens GN=USF1 PE=1 SV=1  
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YRVIQVSEGQLDGGTEGTGAISGPATQSMQAVIQGAFTSDDAVDTEGTAAETHYTYFP  
STAVGDGAGGTTSGSTAASVTTQGEALLGQATPPGTGQFFVMMSPQEVLLQGGSQRSIAP  
RTHPYSPKSEAPTRTRDEKRRRAQHNEVERRRRDKINNWIVQLSKIIPDCSMESTKSGQSK  
GGILSKACDYIQELRQSNHRLSEELQGLDQLQLDNDVLRQQVEDLKNKNLLRAQLRHHG  
LEVVIKNSN

>sp|075691|UTP20\_HUMAN Small subunit processome component 20 homolog OS=Homo sapiens  
GN=UTP20 PE=1 SV=3  
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TEHFGKFYKEVIDKCQSFNQLVYHQNEIVQSLKTHLQVKNSFAYQPLLDLVVQLARDLQM  
DFYPHFPEFFLTITISILETQDTELLEWAFSTLSYLYKYLWRLMVKDMSSISMYSTLLAH  
KKLHIRNFAAESFTFLMRKVSCKNALFNLMLDLDKHPEKVEGVGQLLFEMCKGVRNMFH  
SCTGQAVKLILRKLGPVTETETQLPWMLIGETLKNMVKSTVSYSISKEHFGTFFECLQESL  
LDLHTKVTKNCCESSEQIKRLLLETYLILVKHSGTKIPTADVCKVLSQTLQVASLSTS  
CWETLLDVISALILGENVSLPETLIKETIEKIFESRFEKRLIFSFSSEVMFAMKQFEQLFL  
PSFLSYIVNCFLIDDAVVKDEALAILAKLILNKAAPPTAGSMAIEKYPLVFSPQMGFYI  
KQKTRSKGRNEQFPVLDHLLSIIKLPPNKDTTYLSQSWAALVVLPHIRPLEKEKVIPLV  
TGFIEALFMTVDKGSFGKGNLFVLCQAVNTLLSLEESSELLHLPVERVKNLVLTFFLEP  
SVLLLTDLYYQRLALCGCKGPLSQEALMELFPKLQANISTGVSKIRLLTIRILNHFDVQL  
PESMEDDGLSERQSVFAILRQAEVLPATVNDYREKLLHLRKL RHDVVQTAVPDGPLEQV

LRYLLGMLYINFSALWDPVIELISSHAHEMENKQFWKVYYEHLEKAATHAEKELQNDMTD  
EKSVGDESWEQTQEGDVGALYHEQLALKTDCQERLDHTNFRFLLRALTKFPERVEPRSR  
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QLRFINPLKNLRRLGKIMVTDIFLDWESYQFRTEEIDAVFHGAVWPQISRLGSESQYSPT  
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QATAFGLLKAILSRLKLVPEIDEVMRKVSCLAVSAQSEPARVQCRQVFLKYILDYPLGDK  
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KRLGTVLVPVIEKEIDPENFKDIMEETEEKAADRLLFSFLTITKLKECNIIQFTKPAET  
LSKIWSHVHSHLRHPHNWVWLTAAQIFGLLFASCQPEELIQKWNTKKTKKHLPEPVAIKF  
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DLEEQEALEDGVACADEKAESDGEKEEVKEELGRPATLLWLIQKLSRIAKLEAAYSPRN  
PLKRTCIFKFLGAVAMDLDGIDKVPYLPMIAPLFRELNSTYSEQDPLLKNLSQEIIELL  
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IEFLRPGYKAKRQKSHSLKDLAMVE

>sp|Q9NYH9|UTP6\_HUMAN U3 small nucleolar RNA-associated protein 6 homolog OS=Homo sapiens  
GN=UTP6 PE=2 SV=2

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ATKTRLSKVFSAMLAHNSKPALWIMAAKWEMEDRLSSESARQLFLRALRFHPECPLKYK  
EYFRMELMHAELRKEKEEFKASMDVENPDYSEEILKGELAWIIYKNSVSIKGAEFHV  
SLLSIAQLFDFAKDLQKEIYDDLQALHTDDPLTWDYVARRELEIESQTTEEQPTTKQAKAV  
EVGRKEERCCAVYEEAVKTLPTTEAMWKYITFCLERFTKKSNSGFLRGKRLERTMTVFRK  
AHELKLLSECQYKQSVSLLCYNFLREALEVAVAGTELFRDSGMTMWQLKLQVLIESKSPD

IAMLFEFAFVHLKPQVCLPLWISWAEWSEGAQSQEDTEAVFKKALLAVIGADSVTLKNKY  
LDWAYRSGGYKKARAVFKSLQESRPFVDFFRKMIQFEKEQESCNMANIREYYERALREF  
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GN=ATP6AP1L PE=2 SV=1  
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>sp|Q7L8A9|VASH1\_HUMAN Vasohibin-1 OS=Homo sapiens GN=VASH1 PE=1 SV=1  
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FVNRRGLPVDEATWERMWKHVAKIHPDGEKVAQRIRGATDLPKIPSVPTFQPTVPPE  
RLEAVQRYIRELQYNHTGTQFFEIKSRPLTGLMDLAKEMTKEALPIKCLEAVILGIYLT  
NSMPTLERFPIISFKTYFSGNYFRHIVLGVNFAGRYGALGMSRREDLMYKPPAFRTLSELV  
LDFAAYGRCWHVLKVKLGQSVSHDPSVEQIEWKHSVLDVERLGRDDFRKELERHARD  
MRLKIGKGTGPPSPTKDRKKDVSSPQRAQSSPHRRNSRSERRPSGDKKTSEPKAMPDLNG  
YQIRV  
>sp|P21283|VATC1\_HUMAN V-type proton ATPase subunit C 1 OS=Homo sapiens GN=ATP6V1C1 PE=1  
SV=4  
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ARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKKQFGPLVRWLKVNFSFAFIWIVKAL  
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>sp|Q9BQB6|VKOR1\_HUMAN Vitamin K epoxide reductase complex subunit 1 OS=Homo sapiens  
GN=VKORC1 PE=1 SV=1  
MGSTWGSPGWRLALCLTGLVLSLYALHVKAARARDRDYRALCDVGTATSCSRVFSSRWG  
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AWILFFVLYDFCIVCITYAINVSLMWLSFRKVQEPQGKAKRH  
>sp|P98155|VLDLR\_HUMAN Very low-density lipoprotein receptor OS=Homo sapiens GN=VLDLR  
PE=1 SV=1  
MGTSALWALWLLALCWAPRESGATGTGRKAKCEPSQFQCTNGRCITLLWKCDGEDCVD  
GSDEKNVCVKTCAESDFVCNNGQCVPSRWKCDGPDCEGSDSPEQCHMRTCRIHEISC  
GAHSTQCIPVSWRCDGENDCDSGEDEENCGNITCSPDEFTCSSGRCSIRNFVCNGQDDCS  
DGSDELDCAPPTCGAHEFQCTSSCIPISWVCDDDADCSDQSDSLEQCGRQPV IHTKCP  
ASEIQCGSGECIHKWRCDDGPDCKDGSDEVNCPSTRCPDQFECEDGSCIHGSRQCNGI  
RDCVDGSDEVNCKNVNQCLGPGKFKCRSGECIDISKVCNQEQDCRDWSDEPLKECHINEC  
LVNNGGCSHICKDLVIGYECDAAGFELIDRKTCGDIDECQNPICISQICINLKGKGYCE  
CSRGYQMDLATGVCKAVGKEPSLIFTNRRDIRKIGLERKEYIQLVEQLRNTVALDADIAA  
QKLFWADLSQKAIFSASIDDKVGRHVKMIDNVYNPAAIAVDWVYKTIYWTDAAKTISVA  
TLDGTRKRKFLFNSDLREPASIAVDPLSGFVYWSWGEPKIEKAGMNGFDRRPLVTADIQ  
WPNGITLDLIKSRLYWLDSKLHMLSSVDLNGQDRRIVLKSLEFLAHPLALTIFEDRVYWI



DGENEAVYGANKFTGSELATLVNNLND AQDIIVYHELVQPSGKNWCEEDMENG GCEYLCL  
PAPQINDHSPKYTCSCPSGYNVEENGRDCQSTATTVTYSETKDTNTTEISATSGLVPGGI  
NVT TAVSEVSVPKGTSAAWAILPLLLL VMAAVGGYLMWRNWQHKNMKS MNFDNPVYLKT  
TEEDLSIDIGRHSASVGHTYPAISVVSTDDDLA

>sp|Q96GC9|VMP1\_HUMAN Vacuole membrane protein 1 OS=Homo sapiens GN=VMP1 PE=1 SV=1

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLE  
ILVILKEWTSKLWHRQSIVVSFLLLLAVLIATYYVEGVHQYVQRIEKQFLLYAYWIGLG  
ILSSVGLGTGLHTFLLYLGP HIASVT LAAYECNSVNFPEPPYPDQIICPDEEGTEGTISL  
WSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQEFEEMLHAESAQDF  
ASRAKLAVQKLVQKVGGF GILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK  
MHIQKIFV IITFSKHIVEQMVAFI GAVPGIGPSLQKPFQEYLEAQRQKLHHKSEM GTPQG  
ENWLSWMFEKLVVVMVCYFILSIINSMAQSYAKRIQQRNLNSEEKTK

>sp|O95497|VNN1\_HUMAN Pantetheinase OS=Homo sapiens GN=VNN1 PE=1 SV=2

MTTQLPAYVAILLFYVSRASCQDTFTAAYVEHAAILPNATLTPVSREEALALMNRNLDIL  
EGAITSAADQGAHII VTPEDAIYGNFN RDSLYPYLEDIPDEVNWIPCNNRNRFGQTPV  
QERLSCLAKNNSIYVVANIGDKKPCDTS DPQCPPDGRYQYNTDVVFDSQGKLVARYHKQN  
LFMGENQFNVPKEPEIVTFNTT FGSFGIFTCFDILFHDPAVTLVKDFHVD TIVFPTAWMN  
VLPHLSAVEFHSAWAMGRVNF LASN IHYPSKKMTGSGIYAPNSSRAFH YDMKTEEGKLL  
LSQLDSHP SHSAVVNWT SYASSIEALSSGNKEFKGT VFFDEFTFVKLTGVAGNYTVCQKD  
LCCHLSYKMS ENIPNEVYALGAFDGLHTVEGRYYLQICTLLKCKTTNLNTCGDSAETAST  
RFEMFSLSGTFGTQYVFPEVLLSENQLAPGEFQVSTDGRLFSLKPTSGPVLTVTLFGRLY  
EKDWASNASSGLTAQARIIMLIVIAPIVCSLSW

>sp|Q9UIW0|VAX2\_HUMAN Ventral anterior homeobox 2 OS=Homo sapiens GN=VAX2 PE=1 SV=1

MGDGAERDRGPARRAESGGGGGRCGDRSGAGDLRADGGGHSPTEVAGTSASSPAGSRES  
GADSDGQPGPGEADHCRRILVRDAKGTIREIVLPKGLDLDRPKRTRTSFTAEQLYRLEME  
FQRCQYVVGRETELARQLNLSETQVKVWFQNRRTKQKKDQSRDLEKRASSSASEAFATS  
NILRLLEQGRLLSVPRAPSL LALTPSLPGLPASHRGTS LGDPRNSSPRLNPLSSASASPP  
LPPPLPAVCFSSAPLLDLPAGYELGSSAFEPYSWLERKVG SASSCKKANT

>sp|Q9H322|VCX2\_HUMAN Variable charge X-linked protein 2 OS=Homo sapiens GN=VCX2 PE=2  
SV=3

MSPKPRASGP PAKATEAGKRKSSSQSPSPDPKKKTTK VAKKGKAVRRGRRGKKGAATKMA  
AVTAPEAESAPAAPGPSDQPSQELPQHELPPEEPVSEGTQHDPLSQESEVEEPLSQESEV  
EEPLTVWMASFSPVSESTD

>sp|Q9HBM0|VEZA\_HUMAN Vezatin OS=Homo sapiens GN=VEZT PE=1 SV=3

MTPEFDEEVVFENSPLYQYLQDLGHTDFEICSSLSPKTEKCTTEGQQKPTRVLPKQGIL  
LKVAETIKSWIFFSQCNKKDDLHKLDIGFR LDSLHTILQQEVLLQEDVELIELLDPSIL  
SAGSQQQQENGHLPTLCSLATPN IWDLSMLFAFISLLVMLPTWWIVSSWL VWGVILFVYL  
VIRALRLWRTAKLQVTLKKYSVHLED MATNSRAFTNLVRKALRLIQETEVISRGFTLVSA  
ACPFNKAGQHPSQHLIGLRKAVYRTL RANFQAARLATLYMLKNYPLNSES DNVTNYICVV  
PFKELGLGLSEEQISEEEAHNFTDGFSLPALKVLFQLWVAQSSEFFRRLALLLSTANSPP  
GPLLTPALLPHRILSDVTQGLPHAHSACLEELKRSYEFYRYFETQHQSVPQC LSKTQQKS  
RELNNVHTAVRSLQLHLKALLNEV IILEDELEKLVCTKETQELVSEAYPILEQKLKLIQP  
HVQASNNCWEEAISQVDKLLRRNTDKKGKPEIACENPHCTV VPLKQPTLHIADKDIPEE  
QELEAYVDDIDIDSDFRKDDFY YLSQEDKERQKREHEESKRVLQELKSVLGFKASEAERQ

KWKQLLFSDHAVLKSLSPVDPVEPISNSEPSMNSDMGKVSKNDEEESNKSATTDNEISR  
TEYLCENSLEGKNKDNSSNEVFPQGAERMCYQCESEDEPQADGSGLTAPPTPRDSLQP  
SIKQRLARLQLSPDFTFTAGLAAEVAARSLSFTTMQEQTFGGEEEEQIIENKNEIEEK

>sp|A8MV65|VGLL3\_HUMAN Transcription cofactor vestigial-like protein 3 OS=Homo sapiens  
GN=VGLL3 PE=1 SV=1

MSCAEVMYHPQPYGASQYLPNMAATTCPTAYYQPAPQPGQQKKLAVFSKMQDSLEVTLP  
SKQEEEEEEEEEEKDQPAEMEYLNRCVLFYTFQGDIGSVVDEHFSRALGQAITLHPES  
AISKSKMGLTPLWRDSSALSSQRNSFPTSFWTSSYQPPPAPCLGGVHPDFQVTGPPGTFS  
AADPSPWPGHNLHQTPAPPPAVSESWPYPLTSQVSPSYSHMHDVYMRHHHPAHMHHRH  
RHHHHHHHPPAGSALDPSYGPLLMPSVHAARIPAPQCDITKTEPTTVTSATSAWAGAFHG  
TVDIVPSVGFDGLQHDKSKESPWY

>sp|Q14135|VGLL4\_HUMAN Transcription cofactor vestigial-like protein 4 OS=Homo sapiens  
GN=VGLL4 PE=1 SV=4

METPLDVLRAASLVHADDEKREAALRGEPRMQTLPVASALSSHRTGPPPIPSKRKFSM  
EPGDEDLDCDNDHVSXMSRIFNPHLNKTANGDCRRDPRERSRSPIERAVAPTMSLHGSHL  
YTSLSLGLAQPLALTKNSLDASRPAGLSPTLTTPGERQQNRPSVITCASAGARNCNLSHC  
PIAHSGCAAPGPASYRRPPSAATTCDPVVEEHFRRSLGKNYKEPEPAPNSVSITGSVDDH  
FAKALGDTWLQIKAAKDGAASSPESASRRGQPASPSAHMVSHSHSPSVVS

>sp|Q9P2U7|VGLU1\_HUMAN Vesicular glutamate transporter 1 OS=Homo sapiens GN=SLC17A7 PE=2  
SV=1

MEFRQEERFKLAGRALGKLHRLLEKRQEGAETLELSADGRPVTTQTRDPPVVDCTCFGLP  
RRYIIAIMSGLGFCISFGIRCNLGVAIVSMVNNSTTHRGHVVVQKAQFSWDPETVGLIH  
GSFFWGYIVTQIPGGFICQKFAANRVFGFAIVATSTLNMLIPSAARVHYGCVIFVRILQG  
LVEGVTPACHGIWSKWAPPLERSRLATTAFCGSYAGAVVAMPLAGVLVQYSGWSSVFYV  
YGSFGIFWYLFWLLVSYESPALHPSISEEERKYIEDAIGESAKLMNPLTKFSTPWRFFFT  
SMPVYAIIVANFCRSWTFYLLISQPAYFEEVFGEISKVGLVSALPHLVMTIIVPIGGQ  
IADFLRSRRIMSTTNVRKLMNCGGFGMEATLLLTVGYSHSKGVAISFLVLAVGFSGFAIS  
GFNVNHLDIAPRYASILMISNGVGLSGMVCPIIVGAMTKHKTREEWQYVFLIASLVHY  
GGVIFYGVFASGEKQPWAEPEEMSEKCGFVGHDQLAGSDDSEMEDEAEPPGAPPAPPPS  
YGATHSTFQPPRPPPPVRDY

>sp|Q8NEZ2|VP37A\_HUMAN Vacuolar protein sorting-associated protein 37A OS=Homo sapiens  
GN=VPS37A PE=1 SV=1

MSWLFPLTKSASSAAGSPGGLTSLQQKQRLIESLRNSHSSIAEIQKDVEYRLPFTINN  
LTININILLPPQFPQEKPVISVYPPIRHHLMDKQGQVYVTSPLVNNFTMHSDLGKIIQSLL  
DEFWKNPPVLAPTSTAFPYLYSNPSGMSPYASQGFPFLPPYPPQEANRSITSLSVADTVS  
SSTTSHTTAKPAAPSGVLSNLPLPIPTVDASIPTSQNGFGYKMPDVPDAFPELSELSVS  
QLTDMNEQEEVLLEQFLTLPQLKQIITDKDDLVSIEELARKNLLLEPSLEAKRQTVLDK  
YELLTQMKSTFEKKMRQHESSECSASALQARLKVAHEAEESDNIAEDFLEGKMEID  
DFLSSFMEKRTICHCRRAKEEKLQQAIAHMSQFHAPL

>sp|P63125|VPK25\_HUMAN Endogenous retrovirus group K member 25 Pro protein OS=Homo sapiens  
GN=ERVK-25 PE=3 SV=1

WASQVSENRPVCKAIIQGGKQFEGLVDTGADVSIILNQWPKNWPQKAVTGLVGVGTASE  
VYQSTEILHCLGPDNQESTVQPMITSIPNLWGRDLLQQWGAEITMPAPLYSPTSQKIMT  
KMGYIPGKGLGKNEDGIKIPVEAKINQKREGIGYPF

>sp|P63127|VPK9\_HUMAN Endogenous retrovirus group K member 9 Pro protein OS=Homo sapiens  
GN=ERVK-9 PE=3 SV=1

WASQVSENRPVCKAI IQGKQFEGLVDTGADVSI IALNQWPKNWPKQKAVTGLVGIGTASE  
VYQSMELHLCLGPDNQESTVQPMITSIPLNLWGRDLLQQWGAEITMPAPLYSPTSQKIMT  
KRGYIPGKGLGKNEDGIKIPFEAKINQKREGIGYPF

>sp|Q13488|VPP3\_HUMAN V-type proton ATPase 116 kDa subunit a isoform 3 OS=Homo sapiens  
GN=TCIRG1 PE=1 SV=3

MGSMFRSEEVAVLQFLPTAAAYTCVSRLGELGLVEFRDLNASVSAFQRRFVVDVRRCEE  
LEKTFITFLQEEVRRAGLVLPKPKGRLPAPPRDLLRIQEETERLAQELRDVRGNQQALRA  
QLHQLQLHAAVLRQGHEPQLAAAHDTGASERTPLLQAPGGPHQDLRVNFVAGAVEPHKAP  
ALERLLWRACRGFLIASFRELEQPLEHPVTGEPATWMTFLISYWGEQIGQKIRKITDCFH  
CHVFPFLQQEEARLQALQQLQQSQELQEVLGETERFLSQVLGRVLQLLPPGQVQVHKMK  
AVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVSAAVHRIPCRDMPPT  
LIRTNRTASFQGI VDAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHLLMFLFALAM  
VLAENRPVAKAAQNEIWQTFFRGRYLLLLMGLFSIYTGFIYNECFSRATSI FPGWSVAA  
MANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGIDPIWSLAANHLSFLNSFKMKMSVI  
LGVVHMAFGVVLGVFNHVFHFGQRHRLLETLPELTFLGLFGYLVLVIYKWLCVWAARA  
ASAPSLIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLGTPLHLLHRHR  
RRLRRRPADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHT  
IEFCLGCVSNTASYLRWLWALSLAHAQLSEVLWAMVMRIGLGLGREVGVAAVVLVPIFAAF  
AVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGTGYKLSPTFAATDD

>sp|Q96JG6|VPS50\_HUMAN Syndetin OS=Homo sapiens GN=VPS50 PE=1 SV=3

MQKIKSLMTRQGLKSPQESLSDLGAIESLRVPGKEEFRELREQSPDQAEQELINSIEQV  
YFVSDFSFDIVKYELEKLPPVLNLQELEAYRDKLKQQAASKKVADLILEKQPAYVKELE  
RVTSLQTGLQAAVICTNGRRHLNIAKEGFTQASLGLLANQRKRQLLIGLLKSLRTIKTL  
QRTDVRLSEMLEEDYPGAIQLCLECQKAASFHYSCELSNKLQDTLEQIEEQLDVA  
LSKICKNFDINHYTKVQQAYRLGKTQTAMDQLHMHTQAIHNTVFQVVLGYVELCAGNT  
DTKFQKLQYKDLCTHTVPSYIPCLADLCKALWEVMLSYYRTMEWHEKHDNEDTASASEG  
SNMIGTEETNFDGRYIKKKLEHGLTRIWDVQLKVKTYLLGTDLSIFKYDDFIFVLDIIS  
RLMQVGEEFCGSKSEVLQESIRKQSVNYFKNYHRTLDELRMFLENETWELCPVKS NFSI  
LQLHEFKFMEQSRSPSVSPSKQPVSTSSKTVTLFEQYCSGGNPFEIQANHKDEETEDVLA  
SNGYESDEQEKSAQEYDSDSDVPEELKRDYVDEQTDGDPVKSVSRETLSRKSDYSLN  
KVNAPILTNTTLNIVIRLVGKYMQMMNILKPIAFDVIHFMSQLFDYYLYAIYTFGRNDSL  
ESTGLGLSSSRLRTTLNRIQESLIDLEVSADPTATLTAAEERKEKVPSPHLSHLVLTSG  
DTLYGLAERVVATESLVFLAEQFEFLQPHLDAVMPAVKKPFLQQFYSQTVSTASELRKPI  
YWIVAGKALDYEQMLLLMANVKWDVKEIMSQHNIYVDALLKEFEQFNRRLNEVSKRVRIP  
LPVSNILWEHCIRLANRTIVEGYANVKKCSNEGRALMQLD FQQFLMKLEKLTDIRIPDK  
EFVETIYKAYLTENDMERWIKHREYSTKQLTNLVNVC LGSHINKKARQKLLAAIDDDID  
RPKR

>sp|Q5VIR6|VPS53\_HUMAN Vacuolar protein sorting-associated protein 53 homolog OS=Homo  
sapiens GN=VPS53 PE=1 SV=1

MMEEEELEFVEELEAVLQLTPEVQLAIEQVFPSQDPLDRADFNAVEYINTLFPTEQSLAN  
IDEVVKIRLIRRLDDNIRTVVRGQTNVGQDGRQALEEAQKAIQQLFGKIKDIKDKAEK  
SEQMVKEITRDIKQLDHAKRHLLTTSITTLNHLHMLAGGVDSLEAMTRRRRQYGEVANLLQG

VMNVLEHFHKYMGIPQIRQLSERVKAAQTELGQQILADFEEAFPSQGTKRPGGPSNVLRD  
ACLVANILDPRIKQEIIKKFIKQHLSEYLVLFQENQDVAWLKDIDRRYAWIKRQLVDYEE  
KYGRMFPREWMAERIAVEFCHVTRAELAKIMRTRAKEIEVKLLFAIQRTTNFEGFLAK  
RFSGCTLTDTGLKKLESPPPSTNPFLEDEPTPEMEELATEKGDLQPKPKAPDNPFHGI  
VSKCFEPHLYVYIESQDKNLGELIDRFVADFKAQGPPKPNTDEGGAVLPSCADLFVYYKK  
CMVQCSQLSTGEPMIALTTIFQKYLREYAWKILSGNLPKTTTSSGGLTISSLLKEKEGSE  
VAKFTLEELCLICNILSTAHEYCLATTQQLLEEKLEKVDVSLIERINLTGEMDTFSTVISS  
SIQLLVQDLDAACDPALTAMSKMQWQNVHVGDQSPYVTSVILHIKQNVPIIRDNLASTR  
KYFTQFCVKFANSFIPKFI THLFKCKPISMVGAEQVRWT

>sp|Q8N3P4|VPS8\_HUMAN Vacuolar protein sorting-associated protein 8 homolog OS=Homo sapiens GN=VPS8 PE=1 SV=3

MENEPDHENVEQSLCAKTSEEELNKSFNLEASLSKFSYIDMDKELEFKNDLIDDKEFDIP  
QVDTPTPTLESILNETDDEDESFILEDPTLLNIDTIDSHSYDTSSVASSDSGDRTNLKRKK  
KLPDFSLHGSVMRHSLLKGISAQIVSAADKVDAGLPTAIAVSSLIAGTSHGLALIFGK  
DQNQALRLCLGSTVGGQYGAISALSINDCSRLLCGFAKGQITMWDLASGKLLRSITDA  
HPPGTAILHIKFTDDPTLAICNDSGGSVFELTFKRVMGVRTCESRCLFSGSKGEVCCIEP  
LHSPKPELKDHPITQFSLLAMASLTKILVIGLKPSLVWMTFPYGRMDPSSVPLLAWHFVA  
VQNYVNPMLAFRCRGDVVHFLVKRDESGAIHVTKQKHLHLYYDLINFTWINSRTVVLLDS  
VEKLHVIDRQTQEELETVEISEVQLVYNSSHFKSLATGGNVSQALALVGEKACYQSISSY  
GGQIFYLGTKSVYVMMLRSWRERVDHLLKQDCLTEALALAWSFHEGKAKAVVGLSGDASK  
RKAIVADRMVEILFHYADRALKKCPDQGKIQVMEQHFQDMVPVIVDYCLLLQRKDLLFSQ  
MYDKLSENSVAKGVFLECLEPYILSDKLVGITPQVMKDLIVHFQDKKLMENVEALIVHMD  
ITSLDIQQVVLWCWENRLYDAMIYVYNRGMNEFISPMEKLF RV IAPPLNAGKTLTDEQVV  
MGNKLLVYISCCLAGRAYPLGDIPEDLVPLVKNQVFEFLIRLHSAEASPEEEIYPYIRTL  
LHFDTREFLNLVALTFEDFKNDKQAVEYQQRIVDILLKVMVENSDFTPSQVGCLFTFLAR  
QLAKPDNTLFVNRTLFDQVLEFLCSPDDDSRHSE RQQVLELLQAGGIVQFEESRLIRMA  
EKAIFYQICEFMYEREHQYDKIIDCYLRDPLREEEVFN IHNILSIPGHSAAEEKQSVWQK  
AMDHIEELVSLKPKCAAELVATHFSGHIETV IKKLQNQVLLFKFLRSLLDPREGIHNQE  
LLQISPCITEQFIELLCQFNPTQVIETLQVLECYRLEETIQITQKYQLHEVTAYLLEKKG  
DIHGAFLIMLERLQSKLQEVTHQGENTKEDPSLKDVEDTMVETIALCQRNSHNLNQQQRE  
ALWFPLLEAMMAPQKLSSSAIPHLHSEALKSLTMQVLNSMAAFIALPSILQRILQDPVYG  
KGKLGEIQGLILGMLDTFNYEQTLET TTSLLNQDLHWSLCNLRASVTRGLNPKQDYCSI  
CLQQYKRRQEMADEIIVFSCGHL YHSFCLQNKECTVEFEGQTRWTCYKSSSNKVGKLSE  
NSSEIKKGRITPSQVKMSPSYHQSKGDPTAKKGTSEPVLPQQIQAFDQLCRLYRGSSRL  
ALLTELSQNRSSSYRPFSGSQSAPAFNSIFQNFNLQLIPPPVTED

>sp|O94967|WDR47\_HUMAN WD repeat-containing protein 47 OS=Homo sapiens GN=WDR47 PE=1 SV=1

MTAETVNVKEVEIIKLILDFLNSKKLHISMLALEKESGVINGLFSDDMLFLRQLILDGQ  
WDEVLFQFIQPLECKMEKFDKKRFRYIILKQKFLEALCVNNAMSAEDEPQHLEFTMQEAVQC  
LHALEEYCPSKDDYSKLCLLLTLPRLTNHAEFKDWNPSTARVHC FEEACVMVAEFIPADR  
KLSEAGFKASNNRLFQLVMKGLLYECCVEFCQSKATGEEITESEVLLGIDLLCGNGCDDL  
DLSLLSWLQNLPSVFSFAFEQKMLNIHVDKLLKPTKAAYADLLTPLISKLSYPYSSPMR  
RPQSADAYMTRSLNPALDGLTCGLTSHDKRISDLGNTSPMSHSFANFHYPGVQNLRSRL  
MLENTECHSIYEESPERDTPVDAQRP IGSEILGQSSVSEKEPANGAQNP GPAKQEKNELR  
DSTEQFQEYYRQLRYQQHLEQKEQQRQIYQQMLLEGGVNQEDGPDQQNLTEQFLNRSI

QKLGELNIGMDGLGNEVSALNQQCNGSKNGSNGSSVTSFTTPPDSSQRLTHDASNIHT  
STPRNPGSTNHIPFLEESPCGSQISSEHSVIKPPLGDSPGSLSRSGEEDDKSKKQFVCI  
NILEDTQAVRAVAFHPAGGLYAVGNSKTLRVCAYPDVIDPSAHETPKQPVVRFKRKHH  
KGSYICVAWSPCGQLLATGSNDKYVKVLPFNAETCNATGPDLEFSMHDGTIRDLAFMEGP  
ESGGAILISAGAGDCNIYTTDCQRGQGLHALSGHTGHILALYTWSGWMIASGSQDKTVRF  
WDLRVPSCVRVVGTTFHGTGSAVASVAVDPSGRLLATGQEDSSCMLYDIRGGRMVQSYHP  
HSSDVRSVRFSPGAHYLLTGSYDMKIKVTDLQGD LTKQLPIMVVGEHKDKVIQCRWHTQD  
LSFLSSSADRTVTLWTYNG

>sp|Q9Y5W5|WIF1\_HUMAN Wnt inhibitory factor 1 OS=Homo sapiens GN=WIF1 PE=1 SV=3

MARRSAFPAAALWLWSILLCLLALRAEAGPPQEESLYLWIDAHQARVLIGFEEDILIVSE  
GKMAPFTHDFRKAQQRMPAIPVNIHSMNFTWQAAGQAEYFYEFSLSLSLDKGIMADPTVN  
VPLLGTVPHKASVVQVGFPCLGKQDGVAAFEVDVIVMNSEGNTILQTPQNAIFFKTCQQA  
ECPGGCRNGGFCNERRICECPDGFHGHCEKALCTPRCMNGGLCVTPGFCICPPGFYGVN  
CDKANCSTTCFNGGTCFYPGKICPPGLEGEQCEISKCPQPCRNGGKICGSKCKCKSKGY  
QGDLC SKPVCPCGGAHGTCHPNKQCQEGWHGRHCNKRYEASLIHALRPAGAQLRQHT  
PSLKAEERRDPPESENYIW

>sp|Q8TF74|WIPF2\_HUMAN WAS/WASL-interacting protein family member 2 OS=Homo sapiens  
GN=WIPF2 PE=1 SV=1

MIPIPPPPPPGPPPPPTFHQANTEQPKLSRDEQRGRGALLQDICKGTKLKKVTNINDRS  
APILEKPKGSSGGYSGGAALQPKGGLFQGGVLKLRPVGAKDGENLAGKPALQIPSSRA  
AAPRPVSAASGRPQDDTDSSRASLPRLMRQPSLPDLRPNNTTSSTGMKHSSSAPPPP  
PPGRRANAPPTPLMHSSKAPAYNREKPLPPTPGQRLHPGREGPPAPPPVKPPSPVNIR  
TGPSGQSLAPPPPYRQPPGVNPGSSPTNESAPELPQRHNSLHRKTPGPVRGLAPPPPT  
SASPSLLSNRPPPPARDPPSRGAAPPPPPVIRNGARDAPPPPPYRMHGSEPPSRGKPP  
PPPSRTAGPPPPPPPLRNGHRDSITTVRSFLDDFESKYSFHPVEDFPAPEEYKHFQRI  
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>sp|Q9Y4P8|WIPI2\_HUMAN WD repeat domain phosphoinositide-interacting protein 2 OS=Homo  
sapiens GN=WIPI2 PE=1 SV=1

MNLASQSGEAGAGQLLFANFNQDTEVKASRAAGLGRRVVWSLAVGSKSGYKFFSLSS  
VDKLEQIYECDTDEDVCIVERLFSSSLVAIVSLKAPRKLKVCHFCKGTEICNYSYSNTIL  
AVKLNQRQLIVCLEESLYIHNIIRDMKVLHTIRETPNPAGLCALSINNDNCYLAYPGSAT  
IGEVQVFDITNLRANMIPAHDSPLAALAFDASGKTLATASEKGTIVRVFSIPEGQKLFE  
FRRGVKRCVSICSLAFSMDGMFLSASSNTETVHIFKLETVKEKPPEEPTTWTGYFGKVL  
ASTSYLPSQVTEMFNQGRAFATVRLPFCGHKNICSLATIQKIPRLLVGAADGYLYMYNLD  
PQEGGECALMKQHRLDGSLETTNEILDSASHDCPLVTQTYGAAAGKGTYPSSPTRLAYT  
DDLGA VGGACLEDEASALRLDEDEHPPMILRTD

>sp|Q5MNZ6|WIPI3\_HUMAN WD repeat domain phosphoinositide-interacting protein 3 OS=Homo  
sapiens GN=WDR45B PE=2 SV=2

MNLLPCNPHGNGLLYAGFNQDHGCFACGMENGFVYNTDPLKEKEKQEFLEGGVGHVEML  
FRCNYLALVGGGKKPKYPPNKVMIWDDLKKKTIVIEIEFSTEVKAVKLRRDRIVVLD  
SMI KVFTFTHNPHQLHVFETCYNPKGLCVLCPNSNNSLLAFPGTHTGHVQLVDLASTEKPPVD  
IPAHEGVLSCIALNLQGTRIAASEKGTILIRIFDTSSGHLIQELRRGSQAANIYCINFNQ  
DASLICVSSDHGTVHIFAAEDPKRNKQSSLASASFLPKYFSSKWSFSKFQVPSGSPCICA  
FGTEPNAVIAICADGSYYKFLFNPKGECIRDVYAQFLEMTDDKL

>sp|Q06250|WIT1\_HUMAN Putative Wilms tumor upstream neighbor 1 gene protein OS=Homo sapiens GN=WT1-AS PE=5 SV=2

MQRRGQPLENHVALIHWQSAGIPASKVHNYCNMKSRLGRSRAVRISQPLLSPRRCPLHL  
TERGAGLLQPQPQGPVRTPGPPSGSHPAADN

>sp|Q5T9L3|WLS\_HUMAN Protein wntless homolog OS=Homo sapiens GN=WLS PE=1 SV=2

MAGAIENMSTKKLCIVGGILLVFQIIAFLVGGLIAPGPTTAVSYMSVKCDARKNHHKT  
KWFVPWGNHCDKIRDIEEAIPREIEANDIVFSVHIPLPHMEMSPWFQFMLFILQLDIAF  
KLNNQIRENAEVSMDVSLAYRDDAFAEWTEMAHERVPRKLKCTFTSPKTPHEHEGRYYECD  
VLPMFEIGSVAHKFYLLNIRLPVNEKKKINVGIGEIKDIRLVGIHQNGGFTKVWFAMKTF  
LTPSIFIIMVWYRRITMMSRPPVLEKVFIFALGISMTFINIPVEWFSIGFDWTWMLLFG  
DIRQGIFYAMLLSFWIIFCGEHMDQHERNHIAGYWKQVGPIAVGSFCLFIFDMCERGVQ  
LTNPFYSIWTTDIGTELAMAFIIVAGICLCLYFLFCFMVFQVFRNISGKQSSLPAMSKV  
RRLHYEGLIFRFKFLMLITLACAAMTVIFFIVSQVTEGHWKWGGVTVQVNSAFFGTGIYGM  
WNLYVFALMFLYAPSHKNYGEDQSNGLGVHSGEELQLTTTITHVDGPTEIYKLTRKEAQ  
E

>sp|Q9H4A3|WNK1\_HUMAN Serine/threonine-protein kinase WNK1 OS=Homo sapiens GN=WNK1 PE=1 SV=2

MSGGAAEKQSSTPGSLFLSPPAPAPKNGSSSDSSVGEKLGAAAADAVTGRTEEYRRRRHT  
MDKDSRGAAATTTTEHRFFRRSVICDSNATALELPGLPLSLPQPSIPAAVPQSAPPEPH  
REETVTATATSQVAQPPAAAAPEQAVAGPAPSTVPSSTSKDRPVSQPSLVGSKEEPPP  
ARSGSGGSAKEPQEERSQQQDDIEELETKAVGMSNDGRFLKFDIEIGRGSFKTVYKGLD  
TETTVEVAWCELQDRKLTLSERQRFKEEAEMLKGLQHPNIVRFYDSWESTVKGKKCIVLV  
TELMTSGTLKTYLKRFKVMKIKVLRSWCRQILKGLQFLHTRTPPIIHRDLKCDNIFITGP  
TGSVKIGDLGLATLKRAFSKSVIGTPEFMAPEMYEEKYDESVDVYAFGMCMLMATSEY  
PYSECQNAAQIYRRVTSGVKPASFDKVAIPEVKEIEGCIQNKDERYSIKDLLNHAFQ  
EETGVRVELAEEDDGEKIAIKLWLRIEDIKKLKGYKDNEAIEFSFDLERDVPEDVAQEM  
VESGYVCEGDHKTMAKAIKDRVSLIKRKREQRQLVREEQEKKKQEESLQKQVEQSSASQ  
TGIKQLPSASTGIPTASTTSASVSTQVEPEEPEADQHQQQLQYQQPSISVLSDGTVDSGQG  
SSVFTESRVSSQQTVSYSQSHEQAHSSTGTVPGHIPSTVQAQSQPHGVYPSSVAQGSQ  
QPSSSSLTGVSQQPIQHPQQQQGIQQTAPPQQTQVQYSLSTSTSEATTAQPVSPQAP  
QVLPQVSAGKQLPVSQPVPTIQGEPQIPVATQPSVVPVHSGAHFLPVGQPLPTPLLPQYP  
VSQIPISTPHVSTAQTGFSSLPITMAAGITQPLTLASSATTAAIPGVSTVVPSQLPTLL  
QPVTQLPSQVHPQLLQPAVQSMGIPANLGQAAEVPLSSGDVLYQGFPRLPPQYPGDSNI  
APSSNVASVCIHSTVLSPPMPTEVLATPGYFPTVVQPYVESNLLVPMGGVGGQVQVSQPG  
GSLAQAPTSSQAVLESTQGVSVQVAPAEVAVAAQTQATQPTTLASSVDSAHSDVASGMS  
DGNENVPSSSGRHEGRTTKRHYRKSVRSRSRHEKTSRPKLRILNVSNKGDVVECQLETH  
NRKMVTFKFDLDGDNPEEIATIMVNNDFILAIERESFVDQVREIEKADEMLSEDVSVEP  
EGDQGLLESQGGDDYGFSGSQKLEGEFKQPIPASSMPQQIGIPTSSLTQVVHSAGRRFIV  
SPVPESRLRESKVPSEITDTVAASTAQSPGMNLSHSASSLSLQQAQFSELRRMQMTEGPN  
TAPPNFSHTGPTFPVPPFLSSIAGVPTTAAATAPVPATSSPPNDISTSVIQSEVTVPT  
EGIAGVATSTGVVTSGLPIPPVSESPVLSSVSSITIPAVVISITTSPSLQVPTSTSEI  
VVSSTALYPSVTVSATSASAGGSTATPGPKPPAVVSQQAAGSTTVGATLTSVSTTTSFPS  
TASQLCIQLSSSTSTPTLAETVVVSAHSLDKTSHSSTGLAFSLAPSSSSSPGAGVSSY  
ISQPGGLHPLVIPSVIASTPILPQAAGPTSTPLLPQVPSIPPLVQPVANVPAVQQTLIHS

QPPALLPNQPHTHCPEVSDTQPKAPGIDDIKTLEEKLRSLFSEHSSSGAQHASVSLET  
SLVIESTVTPGIPTTAVAPSKLLTSTTSTCLPPTNLPLGTVALPVTVPVTPGQVSTPVST  
TTSVKPGTAPSKPPLTKAPVLPVGTLPAGTLPSEQLPPFPGPSLTQSQQPLEDLDAQL  
RRTLSPMITVTSAVGPVSMAAPTAITEAGTQPQKGVSVKEGPVLATSSGAGVFKMGRF  
QVSVAADGAQKEGKNKSEDAKSVHFESSTSESVLSSSSPESTLVKPEPNGITIPGISSD  
VPESAHKTTASEAKSDTGQPTKVGRFQVTTTANKVGRFSVSKTEDKITDTKKEGPVASPP  
FMDLEQAVLPAVIPKKEPELSEPSHLNGPSSDPEAAFLSRDVEDGSGSPHSPHQLSSKS  
LPSQNLSQLSNSFNSSYMSSDNESDIEDEDLKLELRRLRDKHLKEIQDLQSRQKHEIES  
LYTKLGKVPFAVIIPPAAPLSGRRRRPTKSKGSKSSRSSSLGNKSPQLSGNLGGQSAASV  
LHPQQTLHPPGNIPESGQNQLQLPLKPSPSDNLYSFTSDGAISVPSLSAPGQGTSTN  
TVGATVNSQAAQAQPPAMTSSRKGTFTDDLHLVDNWARDAMNLSGRRGSKGHMNYEGPG  
MARKFSAPGQLCISMTSNLGGAPISAASATSLGHFTKSMCPPQQYGFAPTFGAQWSGT  
GGPAPQLGQFQPVGTASLQNFNISNLQKSI SNPPGSNLRTT

>sp|Q9Y6F9|WNT6\_HUMAN Protein Wnt-6 OS=Homo sapiens GN=WNT6 PE=1 SV=2

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VVAELARGARLGVRECQFQFRFRRWNCSSHKAFGRIQQDIRETAFVFAITAAGASHAV  
TQACSMGELLQCGCQAPRGRAPRPSGLPGTPGPPGAGSPEGSAAWEGGCGDDVDVFGD  
EKSRLFMDARHKRGRGDIRALVQLHNNEAGRLAVRSHRTECKCHGLSGSCALRTCWQKL  
PPFREVGARLLERFHGASRVMGTNDGKALLPAVRTLKPPGRADLLYAADSPDFCAPNRRT  
GSPGTRGRACNSSAPDLGCDLLCCGRGHRQESVQLEENCLCRFWCCVQCHRCRVRKE  
LSLCL

>sp|P56706|WNT7B\_HUMAN Protein Wnt-7b OS=Homo sapiens GN=WNT7B PE=2 SV=2

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VIGEGAQMGINECQYQFRFRWNCALGEKTVFGQELRVGSREAAFTYAITAAGVAHAVT  
AACSQGNLSNCGCDREKQGYYNQAEGWKWGGCSADVRYGIDFSRRFVDAREIKKNARRLM  
NLHNNEAGRKVLEDRMQLECKCHGVSGSCTTKCWTTLPKFREVGHLLKEKYNAAVQVEV  
VRASRLRQPTFLRIKQLRSYQKPMETDLVYIEKSPNYCEEDAATGSVGTQGRLCNRTSPG  
ADGCDTMCCGRGYNTHQYTKVWQCNCKFHWCCFVKCNTCSERVEFTCK

>sp|O14904|WNT9A\_HUMAN Protein Wnt-9a OS=Homo sapiens GN=WNT9A PE=2 SV=2

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RLKLERKQRRMCRDPGVAETLVEAVSMSALECQFQFRFRWNCLEGRYRASLLKRGFK  
ETAFLYAISSAGLTHALAKACSAGRMERCTCDEAPDLENREAWQWGGCGDNLKYSSKFVK  
EFLGRRSSKDLRARVDFHNNLVGVKVIKAGVETTCKCHGVSGSCTVRTCWRQLAPFHEVG  
KHLKHKYETALKVGSTTNEAAGEAGAI SPPRGRASGAGSDPLRTPPELVHLDSPSFCL  
AGRFSPGTAGRRCHREKNCEISCCGRGHNTQSRVVTRPCQCQVRWCCYVECRQCTQREEV  
YTCKG

>sp|Q9Y6I7|WSB1\_HUMAN WD repeat and SOCS box-containing protein 1 OS=Homo sapiens GN=WSB1  
PE=1 SV=1

MASFPPRVNEKEIVRLRTIGELLAPAAPFDKKCGRENWTVAFAPDGSYFAWSQGHRTVKL  
VPWSQCLQNFLHGTKNVTNSSSLRLPRQNSDGGQKNKPREHIIDCGDIVWSLAFGSSVP  
EKQSRCVNI EWHRFRFGDQLLLATGLNNGRIKIWDVYTGKLLNLVDHTEVVRLTFAP  
DGSLILVSASRDKTLRVWDLKDDGNMMKVLRGHQNWVYSCAFSPDSSMLCSVGASKAVFL  
WNMDKYTMIRKLEGHHDVACDFSPDGALLATASYDTRVYIWDPHNGDILMEFGHLFPP  
PTPIFAGGANDRWVRSVSFSDGLHVASLADDMVRFWRIDEDYPVQVAPLSNGLCCAFS

TDGSVLAAGTHDGSVYFWATPRQVPSLQHLCRMSIRRVMPQTQEVQELPIPSKLLEFLSYR

I

>sp|Q9NYS7|WSB2\_HUMAN WD repeat and SOCS box-containing protein 2 OS=Homo sapiens GN=WSB2  
PE=2 SV=1

MEAGEEPLLLAELKPGRPHQFDWKSSCETWSVAFSPDGSWFAWSQGHCIKVLIPWPLEEQ  
FIPKGFEEKSRSSKNETKGRGSPKEKTLDCGQIVWGLAFSPWSPPSRKLWARHHPQVPD  
VSCLVLATGLNDGQIKIWEVQTGLLLNLSGHQDVVRDLSFTPSGSLILVSASRDKTLRI  
WDLNKHGKQIQVLSGHLQWVYCCSISPDCSMLCSAAGEKSVFLWSMRSYTLIRKLEGHQS  
SVVSCDFSPDSALLVTASYDTNVMWDPYTGERLRLSHHTQVDPAMDDSDVHISSLRSVC  
FSPEGLYLATVADDRLLRIWALELKTPIAFAPMTNGLCCTFFPHGGVIATGTRDGHVQFW  
TAPRVLSSLKHLCKRALSFLTYYQVLALPIPKMKKEFLTYRTF

>sp|O43542|XRCC3\_HUMAN DNA repair protein XRCC3 OS=Homo sapiens GN=XRCC3 PE=1 SV=1

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SILTALQLHQKERFPTQHQRSLGCPVLDALLRGGLPLDGITELAGRSSAGKTQLALQL  
CLAVQFPRQHGGLEAGAVYICTEDAFPHKRLQQLMAQQPRLRTDVPGELLQKLRFQSQIF  
IEHVADVDTLLECYNKKVPVLLSRGMARLVVIDSVAAPFRCEFDQASAPRARHLQSLGA  
TLRELSAFAQSPVLCINQVTEAMEEQGAHGPLGFWDERSVSPALGITWANQLLVRLADR  
LREEEAALGCPARTLRVLSAPHLPPSSCSYTI SAEGVRGTPGTQSH

>sp|Q6P2D8|XRR1\_HUMAN X-ray radiation resistance-associated protein 1 OS=Homo sapiens  
GN=XRR1 PE=2 SV=2

MAFSGIYKLDGKPYLNNCFARNLLRVPEEGQGHVLVQKGNLKKKPKGLVGAQAERRE  
SLKATSFEEFKKKESRRENQVDLPGHILDQAFLLKHHCVRKPSDLCTINAKENDFKHFHS  
VIYINASENLLPLEAFHTFPALKELDLAFNGIKTIYVKYGDFKLLEFLDLSFNSLTVEAI  
CDLGILPHLRVLLLTGNGLTSLPPNLAVAEQEASVTSLSKRYILRFPALETMLDDNRL  
SNPSCFASLAGLRLKKLSLDENRIIRIPYLQQVQLYDESVDWNGGRGSPHKEPQFMLS  
KPRMLDSDEQLDYTVLPMKKDVRTEVVFSSYPGFSTSETTKICSLPPIFEILPVKSLK  
ARNQTLAPPFPELRYLSLAYNKIAKEDAVLPVALFPSLCEVFHNNPLVAHTRGVPPLLK  
SFLQERLGIHLIRRKIVKPKHHVLMRKESWKVKSEIPKVPKQPLVLHHPRMTTTSKPSK  
DMLEPEAEAEADLPTTKSTSVESSEMPTEENLEGHSPSCRTFVPLPPICSNSTVHSEETLSH  
LSDTTVRLSPERPSDEDSKSTESIFLTQVSELPSSVIHKDDLELKEKDQKKPPTAPREVK  
GTRRKLPTAFPSKYHYEELLTAKPDPAFIEPKGIQKNAQALQQMLKHPLLCHSSKPKL  
DTLQKPYVHKEKRAQRIPIPPPKKTRAQLDDIFIRLRDPNITEAPLGAVLHQWTERRL  
VNHKQYLEAKRLLKEFQARYRQLVSGSLRTVFGTTPLMACPALSESQPKFGHFLEFMDE  
FCQEPTASDSQG

>sp|Q96AJ9|VTI1A\_HUMAN Vesicle transport through interaction with t-SNAREs homolog 1A  
OS=Homo sapiens GN=VTI1A PE=1 SV=2

MSSDFEGYEQDFAVLTAEITSKIARVPRLPDEKKQMVANVEKQLEEAKELLEQMDLEVR  
EIPPQSRGMYSNRMRSYKQEMGKLETDFKRSRIAYSDEVNELLGDDGNSSSENQRAHLLD  
NTERLERSRRLEAGYQIAVETEIQIGQEMLENLSDREKIQRARERLRETDANLGKSSRI  
LTGMLRRIIQNRILLVILGIIIVITILMAITFSVRRH

>sp|A8K0Z3|WASH1\_HUMAN WAS protein family homolog 1 OS=Homo sapiens GN=WASH1 PE=1 SV=2

MTPVRMQHSLAGQTYAVPFIQPDLRREEAVQQMADALQYLQKVSQDIFSRISSQVEQSRS  
QVQAIGEKVSLAQAKIEKIKGSKKAIKVFSKAPAPGRLQEYGSIFTGAQDPGLQRRPR  
HRIQSKHRPLDERALQEKLKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLLFNTTE



NLYKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISKREQLQVVPENYFYVPDLGQ  
VPEIHVPSYLPDLPGIANDLMYSADLGPGIAPSAPGTIPELPTFHTEVAEPLKVDLQDGV  
LTPPPPPPPPPAPEVLASAPLPPSTAAPVGQGARQDDSSSSASPSVQGAPREVDPSPG  
GWATLLESIRQAGGIGKAKLRSMKERKLEKQQKKEQEVSRATSQGGHLSDFNKLVMRR  
KGISGKGPAGGPGGAFVRVSDSIPPLPPPQQPAEEDEDDWES

>sp|Q9Y2W2|WBP11\_HUMAN WW domain-binding protein 11 OS=Homo sapiens GN=WBP11 PE=1 SV=1

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DEMEFPNVQQQLNEKVLKDKRKKLRETFERILRLYEKENPDIYKELRKLEVEYEQKRAQ  
LSQYFDAVKNAQHVEVESIPLDMPHAPSNILIQDIPLGAQPPSILKKTSAYGPPTRAV  
SILPLLGHGVPRLPPGRKPPGPPPGPPPPQVVQMYGRKVGFDLPPRRRDEDMLYSPEL  
AQRGHDDVSSSTEDDGYPEDMDQDKHDDSTDDSDTDKSDGESDGDDEFVHRDNGERDNNE  
EKKSGLSVRFADMPGKSRKKKKNMKELTPLQAMMLRMAGQEIPPEGREVEEFSEDDDEDD  
SDDSEAEKQSQKQHKEESHSDGTSTASSQQQAPPQSVPPSQIQAPPMPGPPPLGPPPA  
LRPPGPPTGLPPGPPGAPPFLRPPGMPGLRGLPRLPPGPPPGRPPGPPPGPPGLPP  
GPPPRGPPRLPPPAPPGIPPPRGMMRPPLVPPLGPAPGLFPPAPLPNPGVLSAPPNL  
IQRPKADDTSAATIEKKATATISAKPQITNPKAEITRFVPTALRVRRENGATAAPQRKS  
EDDSAVPLAKAAPKSGSPVPVSVQTKDDVYEAFMKEMEGLL

>sp|075554|WBP4\_HUMAN WW domain-binding protein 4 OS=Homo sapiens GN=WBP4 PE=1 SV=1

MADYWKSQPKKFCDYCKCWIADNRPSVEFHERGKNHKNVAKRISEIKQKSLDKAKEEEK  
ASKEFAAMEAAALKAYQEDLRLGLESEILEPSITPTSTIPPTSTSNQQKEKKEKKR  
KDPSKGRWVEGITSEGYHYYYDLISGASQWEKPEGFGDLKKTAVKTVWVEGLSEDGFTY  
YYNTETGESRWEKPDDFIPTSDLPSSKVNENSLGTLDESKSSDSHSDSDGEQAEEGGV  
STETEKPKIKFKEKNKNSDGGSDPETQKEKSIQKQNSLGSNEEKSKTLKSNPYGEWQEI  
KQEVESHEEVDLELPSTENEYVSTSEADGGGEPKVVFKEKTVTSLGVMADGVAPVFKRR  
TENKSRNLRQRGDDQ

>sp|Q8IWB7|WDFY1\_HUMAN WD repeat and FYVE domain-containing protein 1 OS=Homo sapiens  
GN=WDFY1 PE=1 SV=1

MAAEIHSRPQSSRPVLLSKIEGHQDAVTAALLIPKEDGVITASEDRTIRVWLKRDSGQYW  
PSIYHTMASPCSAMAYHHSRRIFVQGDNQAVMEFHVSEDFNKMNFIKTYPAHQNRVSAI  
IFSLATEWVISTGHDKCVSWMCTRSGNMLGRHFFTSWASCLQYDFDTQYAFVGDYSGQIT  
LLKLEQNTCSVITTLKGHEGSVACLWWDPQRLLFSGASDNSIIMWDIGGRKGRITLLQ  
HHDKVQSLCYLQLTRQLVSCSSDGGIAVWNMDVSREEAPQWLESQKCEQPFWNKQ  
MWDTKTLGLRQHHCRCGQAVCGKCSSKRSSYPVMGFEFQVRVCDSCYDSIKDEDRTSLA  
TFHEGKHNIHMSMDIARGLMVTCTDRIVKIWDMPVVGCSLATGFSPI

>sp|Q8IZQ1|WDFY3\_HUMAN WD repeat and FYVE domain-containing protein 3 OS=Homo sapiens  
GN=WDFY3 PE=1 SV=2

MMNVKRIMGRPRQEESCQPDNALGLMHLRRLFTLCHPPRHMTQKEQEEKLYMMLPVFNR  
VFGNAPPNTMTEKFSDDLQFTTQVSRMLVTEIRRRASNKSTEASRAIVQFLEINQSEEA  
SRGWMLLTINLLASSGQKTVDCMTTMSVPSTLVKCLYLFFDLPHVPEAVGGAQNELPLA  
ERRGLLQKVVFQILVKLCSFVSPAEEAQAQDDLQLLFSAITSWCPPYNLPWRKSAGEVLM  
TISRHGLSVNVVKYIHEKECLSTCVQNMQQSDDLSPLEIVEMFAGLSCFLKSSDVSQTL  
LDDFRIWQGYNFLCDLLRLEQAQAEKDALDLVNLITSLTTYGVSELKPAGITTGAP  
FLLPGFAVPQAGKHSVRNVQAFVLAFLNAFLAKTSFLAQIILDAITNIYMADNANYFI  
LESQHTLSQFAEKISKLEPVQNKYFEMLEFVVFSLNYPCKELISVSILLKSSSSYHCSI

IAMKTLKFTTRHDYIFKDVFREVGLEVMVNLLHKYAALLKDPTQALNEQGDSRNNSSVE  
DQKHLALLVMETLTVLLQGSNTNAGIFREFGGARCAHNIVKYPQCRQHALMTIQQLVLS  
NGDDDMGTLLGLMHSAPPTLQLKTDILRALLSVLRESHRSTVFRKVGGFVYITSLVA  
MERSLSCPPKNGWEKVNQNVFELLHTVFC TLTAAMRYEPANSHFFKTEIQYEKLADAVR  
FLGCFSDLRKISAMNVFPSNTQPFQRLLEEDVISIESVSPTLRHCSKLFYLYKVATDSF  
DSRAEQIPPCLTSESSLPSWGPALSRKRHAYHSVSTPPVYPPKNVADLKLHVTTSSLQ  
SSDAVI IHPGAMLAMDLLASVGSVTQPEHALDLQLAVANILQSLVHTERNQQVMCEAGL  
HARLLQRCSAALADEDHSLHPPLQRMFERLASQALEPMVLREFLRLASPLNCGAWDKLL  
KQYRVHKPSSLSYEPERMSSMITSLEGLGTDNVFSLHEDNHYRISKSLVKAEGSTVPLT  
RVKCLVSMTPHDIRLHGSSVTPAFVEFDTSLEGFGLFLPSLAPHNAPTNTVTGLID  
GAVVSGIGSGERFFPPPSGLSYSSWFCIEHFSSPPNNHPVRLTVVRRANSSEQHYVCLA  
IVLSAKDRSLIVSTKEELLQNYVDDFSEESSFYEILPCCARFRCGELIEGQWHHLVLM  
SKGMLKNSTAALYIDGQLVNTVKLHYVHSTPGGSGSANPPVVSTVYAYIGTPPAQRQIAS  
LVWRLGPTHFLEEVLPSSNVTIYELGPNYVGSFQAVCMPCKDAKSEGVPSPVSLVPEE  
KVSGLYALSVSSLTVARIRKVNKLD SKAIAKQLGIS SHENATPVKL IHNSAGHLNGSA  
RTIGAALIGYLGVRTFVPKPVATTLQYVGAAA ILGLVAMASDVEGLYAAVKALVCVKS  
NPLASKEMERIKGYQLLAMLLKKRSLN SHILHLTFSLVGTVD SGHETSII PNSTAFQD  
LLCDFEVLHAPYELHLSLFEHFIELL TESSEASKNAKLMREFQLIPKLLLTLDMSLSQ  
PTIAAISNVLSFLLQGFSSNDLLRFGQFISSTLPTFAVCEKFVVM EINNEEKLDTGTEE  
EFGGLVSANLILLNRLLDILLKLIYTSKEKTSINLQACEELVKTLGFDWIMFMEEHLH  
STTVTAAMRILVLLSNQ SILIKFKEGLSGGWLEQTD SVLTNKIGTVLGFNVGRSAGGR  
STVREINRDACHFPGFPVLQSF LPKHTNVPALYFLLMALFLQQPVSEL PENLQVSPVIS  
CRSKQGCQFDLDSIWTFIFGVPASSGT VVSSIHNVCTEAVFLLGLMRSMLTSPWQSEEE  
GSWLREYPVTLMQFFRYLYHNVPDLASMWMSPDFLCALAA TVFPFNIRPYSEMVTDLDE  
VGSPAEEFKAF AADTGMNRSQSEYCNVGT KYLTNHPAKKFVDFMRVLIIDNLCLTPAS  
KQTPLIDLLEASPERSTRTQKQEFQTYILDSVMDHLLAADVLLGEDASLPITSGGSYQV  
LVNNVFYFTQRVVDKLWQGMFNKESKLLIDFI IQLIAQSKRRSQGLSLDAVYHCLNRTIL  
YQFSRAHKTVPQQVALLDSLRLVTVNRNLILGPGNHDQEFISCLAHCLINLHVGSNVDGF  
GLEAEARMTTWHIMIPSDIEPDGYSQDIS EGRQLLIKAVNRVWTEL IHSKKQVLEELFK  
VTLPVNERGHVDIATARPLIEEAALKCWQNH LAHEKKCISRGEALAPTQSKLSRVSSGF  
GLSKLTGSRNRKESGLNKHSLSTQEISQWMFTHIAVVRDLVDTQYKEYQERQQNALKYV  
TEEWCQIECELLRERGLWGPPIGSHLDKWMLEMTEGPCMRKKMVRNDMFYNHYPPVET  
EQETNVASEIPSKQPETPDDIPQKKPARYRRAVSYSKEYMRLASGNPAIVQDAIVESS  
EGEAAQQEPEHGEDIKVKGLVKPPLKRSRSAPDGGDEENQEQLQDQIAEGSSIEEEEK  
TDNATLLRLLEEGEKIQHMYRCARVQGLDTSEGLLLFGKEHFYVIDGFTMTATREIRDIE  
TLPPNMHEPIIPRGARQGPSQLKRTCSIFAYEDIKEVHKRRYLLQPIAVEVFSGDGRNYL  
LAFQKGIRNKVYQRFLAVVPSLTDSS ESVSGQRPNTSVEQGSGLSTLVGEKSVTQRWER  
GEISNFQYLMHLNTLAGRSYNDLMQYPVFPWILADYDSEEVDLTNPKTFRNLAKPMGAQT  
DERLAQYKKRYKD WEDPNGETPAYHYGTHYSSAMIVASYLVRMEPFTQIFLRLQGGHFDL  
ADRMFHSVREAWYSASKHNMADV KELIPEFFYLPEFLFNSNFDLGCKQNGTKLGDVILP  
PWAKGDPREFIRVHREALCDYVSAHLHEWIDLIFGYKQGPAAVEAVNVFHHLFYEGQV  
DIYNINDPLKETATIGFINNFGQIPKQLFKKPHPPKRVRSRLNGDNAGISVLPGSTDKI  
FFHHLNLRPSLTPVKELKEPVGQIVCTDKGILAVEQNKVLIPPTWNKTFAWGYADLSR  
LGTYESDKAMTVYECLSEWGQILCAICPNPKLVITGGTSTVVCVWEMGTSKEKAKTVTLK

QALLGHTDVTVCATASLAYHIIVSGSRDRTCI I WDLNKL SFLTQLRGHRAPVSALCINEL  
TGDIVSCAGTYIHVWSINGNPIVSVNTFTGRSQQI ICCCMSEMNEWD TQNVIVTGHSDGV  
VRFWRMEFLQVPETPAPEPAEVLEMQEDCPEAQIGQEAQDEDDSSDEADEQSISQDPKDT  
PSQPSSTSHRPRAASCRATAAWCTDSGSDSRRWSDQLSLDEKDGFI FVNYSEGQTRAHL  
QGPLSHPPNPPIEV RNYSRLKPGYRWERQLVFRSKLTMHTAFDRKD NAHPAEVTALGISK  
DHSRILVGDSRGRVFSWSVSDQPGRSAADHWVKDEGGDSCSGCSVRFSLTERRHHCRNCG  
QLFCQKCSRQFQSEIKRLKISSPV RVCQNCYYNLQHERGSEDGPRNC

>sp|Q9H7D7|WDR26\_HUMAN WD repeat-containing protein 26 OS=Homo sapiens GN=WDR26 PE=1 SV=3  
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PSAPSAASNNNSNLNVNNGVPGGAAAASSATVAAASATTAASSSLATPELGSS LKKKKRL  
SQSDEDVIRLIGQHLNGLGNQTVDLLMQESGCRLEHPSATKFRNHVMEGDWDKAENDLN  
ELKPLVHSPHAIIVRGAL EISQTL LGIIVRMKFLLLQKYLEYLEDGKVLEALQVLRCEL  
TPLKYNTERIHLVSGYLMCSHAEDLRKA EWEGKGTASRSKLLDKLQTYLPPSVMLPPRR  
LQTLLRQAVELQRDRCLYHNTKLDNNLDSVSLIDHVCSSRRQFPCYTQQILTEHCNEVWF  
CKFSNDGTKLATGSKD TTVI I IWQVDPDTHLLKLLKTLEGHAYGVSYIAWSPDDNYLVACG  
PDDCSELWLWNVQTGELRTKMSQSHEDSLTSVAWNPDGKRFVTGGQRGQFYQCDLDGNLL  
DSWEGVRVQCLWCLSDGKTVLASDTHQRIRGYNFEDLTDRNIVQEDHPIMSFTISKNGRL  
ALLNVATQGVHLWDLQDRVLVRKYQGV TQGFTYIHSCFGGHNE DFIASGSEDHKVYIWHK  
RSELP I AELTGHTRTVNCVSWNPQIPSMASASDDGTVRIWGPAPFIDHQNIEECSSMD  
S

>sp|Q9P2L0|WDR35\_HUMAN WD repeat-containing protein 35 OS=Homo sapiens GN=WDR35 PE=1 SV=3  
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LSMNQTLEGHSGSVQVVTWNEQYQKLTTSDENGLI I VWMLYKGSWIEEMINNRNKS SVRS  
MSWNADGQKICIVYEDGAVIVGSVDGNRIW GKDLKGIQLSHVTSADSKVLLFGMANGEI  
HIYDNQGNFMIMKMLSCLVNVGTAGIS IAGIHWHYHGTEGYVEPDPCPLAVCFDNGRCQIMR  
HENDQNPVLIDTGMVVG I QWNHMGSVLAVAGFQKAAMQDKDVNIVQFYTPFGEHLGTLK  
VPGKEISALSWEGGLKIALAVDSFIYFANIRPNYKWGYCSNTVVYAYTRPDRPEYCVVF  
WDTKNNEKYVKYVKGLISITTCGDFC ILATKADENHPQEENEMETFGATFVLVLCNSIGT  
PLDPKYIDIVPLFVAMTKTHVIAASKEAFYTWQYRVAKKLTAL E INQITRSRKEGRERIY  
HVDDTPSGSMDGVL DYSKTIQGTRDPICAITASDKILIVGRESGTIQRYS LPNVGLIQKY  
SLNCRAYQLSLNCSSRLAIIDISGVLTFFDLDARVTDSTGQQVVGEL LKLERDVWDMK  
WAKDNPDLFAMMEKTRMYVFRNL DPEEPIQTSGYICNFEDLEIKSVLLDEILKDPEHPNK  
DYLINFEIRSLRDSRALIEKVG IKDASQFIEDNPHPRLWRL LAEALQKLDLYTAEQAFV  
RCKDYQG IKFVKRLGKLLSESMKQAEVVG YFGRFEEAERTYLEMDRRDLAIGLR LKLGDW  
FRVLQLLKTGSGDADD SLEQANNAIGDYFADRQKWLNAVQYYVQGRNQERLAECYYMLE  
DYEGLENLAISLPENHKLLPEIAQM FVRVGMCEQAVTAFLKCSQPKAAVDTCVHLNQWNK  
AVELAKNHSMKEIGSLLARYASHLLEKNKTLDAIELYRKANYFFDAAKLMFKI ADEEAKK  
GSKPLRVKKLYVLSALLIEQYHEQMKN AQRGKVKGKSSEATSALAGLLEEEVLSTDRFT  
DNAWRGAEAYHFFILAQRQLYEGCVD TALKTALHLKDYEDIIPPVEIY SLLALCACASRA  
FGTCSKAFIKLSLETLSSEQKQYEDLAL EIFTKHTSKDNRKPELDSLMEGGEGKLPTC  
VATGSPITEYQFWMCSVCKHGVLAQEISHYSFCPLCHSPVG

>sp|Q9HAD4|WDR41\_HUMAN WD repeat-containing protein 41 OS=Homo sapiens GN=WDR41 PE=2 SV=3  
MLRWLIGGREGPQLAEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVQLDDYRFASA  
GDDGIVVVWNAQTGEKLLELN GHTQKITAIITFPSLESC EEKNQLILTASADRTVIVWDG

DTTRQVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKDLLCKTSHLSDTGISALV  
EIPKNCVVAAVGKELIIFRLVAPTEGSLEWDILEVKRLLDHQDNILSLINVNDLSFVTGS  
HVGELIIWDALDWTMQAYERNFWDPSQLDTQQEIKLCQKSNDISIHFTCDEENVFAAV  
GRGLYVYSLQMKRVIACQKTAHDSNVLHVARLPNRQLISCSGDSVRIWELREKQQLAAE  
PVPTGFFNMWGFGRVSKQASQPVKKQQENATSCSLELIGDLIGHSSSVEMFLYFEDHGLV  
TCSADHLIILWKNGERESGLRSLRLFQKLEENGDLYLAV

>sp|Q15061|WDR43\_HUMAN WD repeat-containing protein 43 OS=Homo sapiens GN=WDR43 PE=1 SV=3

MAAGGGGSCDPLAPAGVPCAFSPHSQAYFALASTDGHLRVWETANNRLHQEYVPSAHLSG  
TCTCLAWAPARLQAKESPQRKKRKSEAVGMSNQTDLLALGTAVGSILLYSTVKGELHSKL  
ISGGHDNRVNCIQWHQDSGCLYSCSDDKHIVEWNVQTCVKCKWKGDNSSVSLCISP DG  
KMLLSAGRTIKLVLETKEVYRHFTGHATPVSSLMFTTIRPPNESQPFDGITGLYFLSGA  
VHDLRLNVWQVRSENKEKSAVMSFTVTDEPVYIDLTLSENKEEPVKLAVVCRDGQVHLFE  
HILNGYCKKPLTSNCTIQIATPGKGKKSTPKPIPIAAGFCSDKMSLLL VYGSWFQPTIE  
RVALNSREPHMCLVRDISNCWAPKVETAITKVRTPVMNSEAKVLVPGIPGHAAIKPAPP  
QTEQVESKRKSGGNEVSI EERLGAMDIDTHKKGKEDLQNSFPVLLTQGLESNDFEMLNK  
VLQTRNVNL IKKTVLRMPLHTI IPLLQELTKRLQGHPNSAVLMVQWLKCVLTVHASYLST  
LPDLVPQLGTLYQLMESRVKTFQKLSHLHGKLILLITQVTASEKTKGATSPGQKAKLVYE  
EESSEESDDEIADKDSEDNWEDEEESEKDEDVEEEDEDAEGKDEENGEDRDTASEK  
ELNGDSLDLPENESEEE

>sp|O43379|WDR62\_HUMAN WD repeat-containing protein 62 OS=Homo sapiens GN=WDR62 PE=1 SV=4

MAAVSGGYARNDAGEKLPSVMAGVPARRGQSSPPAPPICLRRRTRLSTASEETVQNRV  
SLEKVLGITAQNSSGLTCDPGTGHVAYLAGCVVVILDPKENKQQHIFNTARKSLSALAFS  
PDGKYIVTGENGHRPAVRIWDVEEKQVAEMLGHKYGVACVAFSPNMKHIVSMGYQHDMV  
LNVWDWKKDIVVASNKVSCRVI ALSFSEDSSYFVTVGNRHVRFWFLEVSTETKVTSTVPL  
VGRSGILGELHNNIFCGVACGRGRMAGSTFCVSYSGLLCQFNEKRVLEKWINLKVSLSSC  
LCVSQELIFCGCTDGI VRIFQAHS LHYLANLPKPHYLGV DVAQGLEPSFLFHRKAEAVYP  
DTVALTFDPIHQWLS CVYKDHSIYIWDVKDINRVGKVWSELFHSSYVWNEVYPEFEDQR  
ACLPSGSFLTCSNDTIRFWNL DSSPD SHWQKNIFSNTLLKV VYVENDIQHLQDMSHFPD  
RGSENGTPMDVKAGVRVMQVSPDGQHLASGDRSGNLR IHELHFMDLVKVEAHDAEVLCL  
EYSKPETGLTLLASASRDRLIHVLNVEKNYNLEQTLDDHSSSITAIKFAGNRDIQMISCG  
ADKSIYFRSAQQGSDGLHFVRTHHVAEKTTL YDMDIDITQKYVAVACQDRNVRVYNTVNG  
KQKCKYKGSQGDEGSLLKVHVDPSGTFLATSCSDKSISVIDFYSGECIAKMFHSEIITS  
MKFTYDCHHLITVSGDSCVFIWHLGPEITNCMKQHLL EIDHRQQQQHTNDKKRSGHPRQD  
TYVSTPSEIHSLSPEGEQTEDDLEECEPEEMLKTPSKDSLDPDPRCLLTNGKLPLWAKRL  
LGDDDVADGLAFHAKRSYQPHGRWAERAGQEPLKTILDAQDLDCYFTPMKPESLENSILD  
SLEPQSLASLLSESESPQEAGRHP SFLPQQKESSEASELILYSLEAEVTVTGTSQYCR  
KEVEAGPGDQQGDSYL RVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFA  
TSLPHFPGCAGPTEDELSLPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEA  
SEAEDHFFNPRLSISTQFLSSLQKASRFTHTFPPRATQCLVKSP EVKLM DRGGSQPRAGT  
GYASPDRTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPTDRNLPTPTSAPT PGL  
AQGVHAPSTCSYMEATASSRARISRSISLGDSEGPIVATLAQPLRRPSSVGELASLGQEL  
QAITTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVPAVS  
FPAPSPVEESALRLHGS AFRPSLPAPESPGLPAHPSNPQLPEARPGIPGGTASLLEPTSG  
ALGLLQGSPARWSEPWPVEALPPSPLELSRVGNILHRLQTTFQEALDLYRVLVSSGQVD

TGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALSPGPPSPPTLYPLASPDQLQALL  
EHYSELLVQAVRRKARGH

>sp|Q6RFH5|WDR74\_HUMAN WD repeat-containing protein 74 OS=Homo sapiens GN=WDR74 PE=1 SV=1  
MAAAAARWNHVWVGTTETGILKGVNLQRKQAANFTAGGQPRREEAVSALCWGTGGETQMLV  
GCADRTVKHFSTEDGIFQQRHCPGGEGMFRGLAQADGTLITCVDSGILRVWHDKDKDTS  
SDPILLELRVGPVCRMRQDPAHPHVVATGGKENALKIWDLQGSEEPVFRANKVRNDWLDL  
RVPIWDQDIQFLPGSQKLVCTGYHQVRVYDPASPQRRPVLETTYGEYPLTAMTLTPGGN  
SVIVGNTHGQLAEIDLRQGRLGCLKGLAGSVRGLQCHPSKPLLASCGLDRVLRHRIQN  
PRGLEHKVYLKSQLNCLLLSGRDNWEDEPQEPQEPNKVPLEDTETDELWASLEAAAKRKL  
SGLEQPQGALQTRRRKKKRPGSTSP

>sp|Q9H967|WDR76\_HUMAN WD repeat-containing protein 76 OS=Homo sapiens GN=WDR76 PE=1 SV=2  
MSRSGAAAEKADSRQRPQMKVNEYKENQNIAYVSLRPAQTTVLIKTAKVYLAPFSLSNYQ  
LDQLMCPKSLSEKNSNNEVACKKTKIKKTCRRIIPPKMKNSSKAESTLQNSSSAVHTES  
NKLQPKRTADAMNLSVDVLESSQDGDSEDTTPSLDFSGLSPYERKRLKNISENADFFASL  
QLSESAARLREMIERQPPKSKRKKPKRENGIGCRRSMRLKVDPSGVSIPAAPTPTLV  
ADETPLPPGPLEMTSENQEDNNERFKGFLHTWAGMSKPSKNTTEKGLSSIKSYKANLNG  
MVIS EDTVYKVTGPIFSMALHPSETRTLAVAGAKFGQVGLCDLTQQPKEDGVYVFHPHS  
QPVSCLYFSPANPAHLSLSYDGLRCGDFSRAIFEEVYRNERSSFSFDFLAEDASTLI  
VGHWDGNMSLVDRRTPGTSYEKLTSSSMGKIRTVHVHPVHRQYFITAGLRDTHIYDARRL  
NSRRSQPLISLTEHTKSIASAYFSPLTGNRVVTTADCNLRIFDSSCISSKIPLLTIRH  
NTFTGRWLTRFQAMWDPKQEDCVIVGSMAPRRVEIFHETGKRVHSFGGEYLVSVCSINA  
MHPTRYILAGGNSSGKIHFVFMNEKSC

>sp|Q5VTH9|WDR78\_HUMAN WD repeat-containing protein 78 OS=Homo sapiens GN=WDR78 PE=2 SV=1  
MTPGKHSGASARAANGAWGYRDFRGGQKKGWCTTPQLVATMPVSPAGSHKQQNFGLNNA  
TQPKKSISFFATMKATS VKGYTGANQSRMAVSKTVLIPPELKTVEKPNPNIKTTQVFDIN  
GTDVTPRPLYHPDPLTG TAKPSKLLTSQEGSLGSEFISSYSLYQNTINPSTLGQFTRSVL  
GSSTVSKSSVSASESIAEDLEEPSYKRERLTSFTDLQVIRAAPEKIVTKEDLEKNIEIIL  
TETETLRFDDLPTVMVSVEEEAEKVTQRNKNYEVLCRNRLGNDLYVERMMQTFNGAPKN  
KDVQCDKIIMEDKGIMSTAWDLYDSYNAMELVLSVKQSVVESSSKANVLPKDQDQRLPG  
STTEKNSETSSLMIDIENVILAKIHEDEEDHSDAILKSDKFHQDLFFMERVL MENIFQPKL  
AAYRQLPVLKEPEPEEPEDVLES AKHEEVEEEESKKEEEEEIHAEESTIPANLERLWSFSC  
DLTKGLNVSSLAWNKTNPDLLAVGYGHFGFKEQKRGLACCWSIKNPMWPERIYQSPYGV  
TAVDFSIGAPNLLAVGYHNGTIAIYNVRSNSNPVLDSSSPQKHLGPVWQLQWIEQDRGT  
TGDGKREILVSISADGRISKWVIRKGLDCYDLMLRKRTAASNKKGGEKEKKDEALISRQ  
APGMCFAFHPKDTNIYLAGTEEGHIHKCSCSYNEQYLDTYRGHKGPVYKVTWNPFC HDVF  
LSCSADWGVIIWQQENVKPSLSFY PATSVVYDVAWSPKSSYIFAAANENRVEIWDLHIST  
LDPLIVNTANPGIKFTTILFAKQTDCLLVGDS DGQVSVYELRNMP TVLETGRGDIMDTLL  
GSKSNQSA

>sp|Q9H1F0|WF10A\_HUMAN WAP four-disulfide core domain protein 10A OS=Homo sapiens  
GN=WFDC10A PE=3 SV=2  
MAPQTLLPVLVLCVLLLQAQGGYRDKKRMQKTQLSPEIKVCQQPKLYLCKHLCESHRDC  
QANNICCS TYCGNVCMSIL

>sp|Q9P202|WHRN\_HUMAN Whirlin OS=Homo sapiens GN=WHRN PE=1 SV=3  
MNAPLDGLSVSSSSTGSLGSAAGAGGGGAGLRLLSANVRQLHQALTALLSEAEREQFTH

CLNAYHARRNVFDLVRTLRVLLDSPVKRRLPMLRLVIPRSDQLLFDQYTAEGLYLPATT  
PYRQPAWGGPDSAGPGEVRLVSLRRAKAHEGLGFSIRGGSEHGVGIYVSLVEPGSLAEKE  
GLRVDGQILRVNDKSLARVTHAEAVKALKGSKKLVLSVYSAGRIPGGYVTNHIYTWVDPQ  
GRSISPPSGLPQPHGGALRQQEGDRRSTLHLLQGGDEKKVNLVLGDGRSLGLTIRGGAEY  
GLGIYITGVDPGSEAEGSGLKVGQILEVNGRSFLNILHDEAVRLLKSSRHLILTVKDVG  
RLPRARTTVDETKWIIASSRIRETMANAGFLGDLTTEGINKPGFYKGPAGSQVTLSLGN  
QTRVLLEEQARHLLNEQEHATMAYYLDEYRGGSVSVEALVMALFKLLNTHAKFSLLSEVR  
GTISPQDLERFDHLVLRREIESMKARQPPGPGAGDTYSMVSYSDTGSSTGSHGTSTTVSS  
ARNTLDLEETGEAVQGNINALPDVSVDDVRSTSQGLSSFKPLPRPPPLAQGNDLPLGQPR  
KLGREDLQPPSSMPSCSGTVFSAPQNRSPAGTAPTGTSSAQDLPSPIYASVSPANPS  
SKRPLDAHLALVNQHPIGFPFRVQSPPHLKSPSAEATVAGGCLLPSPSGHPDQGTGNQH  
FVMVEVHRPDSEPDVNEVRALPQTRTASTLSHLSDSGQTLSEDSGVDAGEAEASAPGRGR  
QSVSTKSRSSKELPRNERPTDGANKPPGLEPTSTLVRVKKSAATLGIAIEGGANTRQPL  
PRIVTIQRGSSAHNCQGLKVGHVILEVNGLTLRGKEHREAARIIEAFKTKDRDYIDFLV  
TEFNVML

>sp|Q5MNZ9|WIPI1\_HUMAN WD repeat domain phosphoinositide-interacting protein 1 OS=Homo sapiens GN=WIPI1 PE=1 SV=3

MEAEAADAPGGVESALSCFSFNQDCTSLATGKAGYKLFSLSSVEQLDQVHGSNEIPDV  
YIVERLFSSSLVVVVSHTKPRQMNVYHFKKGTEICNYSYSSNILSIRLNQRLLVCLEES  
IYIHNIKDMKLLKTLTDIPANPTGLCALSHNSNSYLAYPGSLTSGEIVLYDGNLKTVC  
TIAAHEGTLAAITFNASGSKLASASEKGTIVRVFSVPDGGKLYEFRGMKRYVTISSLVF  
SMDSQFLCASSNTETVHIFKLEQVTNSRPEEPSTWSGYMGKMFMAATNYLPTQVSDMMHQ  
DRAFATARLNFSGQRNICTLSTIQKLPRLLVASSSGHLYMYNLDPDGGECVLIKTHSLL  
GSGTTEENKENDLRPSLPQSYAATVARPSASSASTVPGYSEDGGALRGEVIPEHEFATGP  
VCLDDENEFPPIILCRGNQKGKTKQS

>sp|Q9Y484|WIPI4\_HUMAN WD repeat domain phosphoinositide-interacting protein 4 OS=Homo sapiens GN=WDR45 PE=2 SV=1

MTQQPLRGVTSRFRNQDQSCFCCAMETGVRIYNVEPLMEKGHLDEHQVGSMLVEMLHRS  
NLLALVGGSSPKFSEISVLIWDDAREGKDSKEKLVLEFTFTKPVLSVRMRHDKIVIVLK  
NRIYVYSFPDNPRKLFEDTRDNPKGLCDLCPSEKQLLVFPGHKCSLQLVDLASTKPG  
TSSAPFTINAHQSDIACVSLNQPTVVASASQKGTILRLFDTSKEKVELRRGTDPATL  
YCINFSDSSFLCASSDKGTVHIFALKDTRLNRRSALARVGKVGPMIGQYVDSQWSLASF  
TVPAESACICAFGRNTSKNVNSVIAICVDGTFHKYVFTPDGNCNREAFDVYLDICDDDDF

>sp|O95388|WISP1\_HUMAN WNT1-inducible-signaling pathway protein 1 OS=Homo sapiens GN=WISP1 PE=1 SV=1

MRWFLPWTLAAVTAASASTVLATALSPAPTTMDFTAPLEDTSRPPQFCKWPCECPPSP  
RCPLGVSLITDGCECKMCAQQGLGDNCTEAAICDPHRGLYCDYSGDRPRYAIGVCAQVVG  
VGCVLDGVRYNNGQSFQPNCKYNCTCIDGAVGCTPLCLRVPRPRLWCPHPRRVSIPIGHCC  
EQWVCEDDAKRPRKTAPRDTGAFDAVGEVEAWHRNCIAYTSPWSPCSTSCGLGVSTRISN  
VNAQCWPEQESRLCNLRPCDVDIHTLIKAGKKCLAVYQPEASMNFTLAGCISTRSYQPKY  
CGVCMNDRCCIPYKSKTIDVSFQCPDGLGFSRQVLWINACFCNLSCRNPNDIFADLESYP  
DFSEIAN

>sp|Q9GZT5|WN10A\_HUMAN Protein Wnt-10a OS=Homo sapiens GN=WNT10A PE=1 SV=1  
MGAHPRPWLRLRPQPRPALWVLLFLLLLAAAMPSPNDILDRLPPEPVLNANTV

CLTLPLSRRQMEVCVRHPDVAASAIQGIQIAIHECQHQRDQRWNCSSLETRNKIPYES  
PIFSRGFRESAFAYAIAAAGVVHAVSNACALGKLKACGCDASRRGDEEAFRRKLHRLQLD  
ALQRGKGLSHGVPEHPALPTASPLQDSWEWGGCSPDMGFGFERFSKDFLDSREPHRDIHA  
RMRLHNNRVGRQAVMENMRKCKCHGTSGSCQLKTCWQVTPEFRTVGALLRSRFRHATLI  
RPHNRNGGQLEPGPAGAPSPAPGAPGPRRRASPADLVYFEKSPDFCEREPRLDSAGTVGR  
LCNKSSAGSDGCGSMCCGRGHNILRQTRSERCHCRFWCCFVVCEECRITEWVSVCK

>sp|000744|WN10B\_HUMAN Protein Wnt-10b OS=Homo sapiens GN=WNT10B PE=1 SV=2

MLEEPRPRPPPSGLAGLLFLALCSRALSNEILGLKLPGEPPLTANTVCLTSLGSKRQLG  
LCLRNPDTVASALQGLHIAVHECQHQLRDQRWNCSALEGGGRLPHHSAILKRGFRESAFS  
FSMLAAGVMHAVATACSLGKLVSCGCGWKSGEQDRLRAKLLQLQALSRGKSFPHSLPSP  
GPGSSPSPGPQDTWEWGGCNHDMDFGEKFSRDFLDSREAPRDIQARMRIHNNRVGRQVVT  
ENLKRKCKCHGTSGSCQFKTCWRAAPEFRAVGAALRERLGRAIFIDTHNRNSGAFQPRLR  
PRRLSGELVYFEKSPDFCERDPTMGSPGTRGRACNKSRLLDGCGSLCCGRGHNVLRQTR  
VERCHCRFWCCYVLCDECKVTEWVNVCK

>sp|096014|WNT11\_HUMAN Protein Wnt-11 OS=Homo sapiens GN=WNT11 PE=1 SV=2

MRARPQVCEALLFALALQTGVCYGIKWLALSKTPSALALNQTQHCKQLEGLVSAQVQLCR  
SNLELMHTVVHAAREVMKACRRAFADMRWNCSSIELAPNYLLDLERGTRSAFVYALSAA  
AISHAIARACTSGDLPGCSCGPVPGPGPNRWGGCADNLSYGLLMGAKFSADPMKVKK  
TGSQANKLMRLHNSEVGRQALRASLEMCKCKCHGVSGSCSIRTCWKLQELQDVAADLKTR  
YLSATKVVHRPMGTRKHLVPKDLDIRPVKDELVLQSSPDFCMKNEKVGSHGTQDRQCN  
KTSNGSDSCDLMCCGRGYNPYTDRVVERCHCKYHWCCYVTCRRCERTVERYVCK

>sp|P56703|WNT3\_HUMAN Proto-oncogene Wnt-3 OS=Homo sapiens GN=WNT3 PE=1 SV=2

MEPHLLGLLLGLLLGGTRVLGYPIWWSLALGQYTSLSGSQPLLCSIPGLVPKQLRFCR  
NYIEIMPSVAEGVKLGIECQHQRFRGRRWNCTTIDDSLAIIFGPVLDKATRESAFVHAIAS  
AGVAFVTRSCAEGTSTICGCDSHHKGPPGEGWKWGGCSEDADFGVLVSREFADARENRP  
DARSAMNKHNEAGRTTILDHMLKCKCHGLSGSCEVKTWWAQPDFRAIGDFLKDKYDS  
ASEMVVEKHRESRGWVETLRAKYSLFKPPTERDLVYYENSPNFCEPNPETGSFGTRDRTC  
NVTSHGIDGCDLLCCGRGHNTRTEKRKEKCHCIFHWCCYVSCQECIRIYDVHTCK

>sp|000755|WNT7A\_HUMAN Protein Wnt-7a OS=Homo sapiens GN=WNT7A PE=1 SV=2

MNRKARRCLGHLFLSLGMVYLRIIGGFSSVVALGASII CNKIPGLAPRQRAICQSRPDAII  
VIGEGSQMGLDECQFQFRNGRWNCALGERTVFGKELKVGSRFAFTYAIIAAGVAHAIT  
AACTQGNLSDCGDKEKQGYHRDEGWKGGCSADIRYGIGFAKVFVDAREIKQNARTLM  
NLHNNEAGRKILEENMKLECKCHGVSGSCTTKTCWTTLPQFRELGYVLKDKYNEAVHVEP  
VRASRNKRPTFLKIKPLSYRKPMDDLVIYIEKSPNYCEEDPVTGSVGTQGRACNKTAPQ  
ASGCDLMCCGRGYNTHQYARVWQCNCKFHWCCYVKCNTCSERTEMYTCK

>sp|000258|WRB\_HUMAN Tail-anchored protein insertion receptor WRB OS=Homo sapiens GN=WRB  
PE=1 SV=2

MSSAAADHWALLVLSFVFGCNVLRILLPSFSSFMSRVLQKDAEQESQMRAEIQDMKQEL  
STVNMMEFARYARLERKINKMTDKLKTHVKARTAQLAKIKWVISVAFYVLQAALMISLI  
WKYYSVPVAVVPSKWITPLDRLVAFPTRVAGGVGITCWILVCNKVVAIVLHPFS

>sp|Q5GH76|XKR4\_HUMAN XK-related protein 4 OS=Homo sapiens GN=XKR4 PE=2 SV=1

MAAKSDGRLKMKKSSDVAFTPLQNSDHSGSVQGLAPGLPSGSGAEDEEAAGGCCPDGGG  
CSRCCCCAGSGGSAGSGSGGVAGPGGGGAGSAALCLRLGREQRRYSLWDCLWILAABA  
VYFADVGTDVWLAVDYLRGQRWWFGLTLFFVVLGSLSVQVFSFRWFVHDFSTEDSATAA

AASSCPQPGADCKTVVGGGSAAGEGEARPSTPQRQASNASKSNIAAANSNGSNSSGATRAS  
GKHRSASCSFCIWLLQSLIHILQLGQIWRYFHTIYLGIRSRQSGENDRWRFYWKMVYEYA  
DVSMHLHLATFLESAPQLVLQLCIIVQTHSLQALQGFTAAASLVSLAWALASYQKALRDS  
RDDKKPISYMAV I IQFCWHFFTIAARVITFALFASVFQLYFGIFIVLHWCIMTFWIVHCE  
TEFCITKWEIIVFDMVVGIIYIFSWFNVKEGRTRCRLFIYYFVILLENALSALWYLYKA  
PQIADAFaipalCVVFSSFLTGVVFM MYA FFHPNGPRFGQSPSCACEDPAAAF TLPPD  
VATSTLRSISNNRSVSDRDQKFAERDGCVPVFQVRPTAPSTPSSRPRIEESVIKIDLF  
RNRYPAWERHVLDRSLRKAILAFECSPSPRLQYKDDALIQRLEYETTL

>sp|Q9H6D3|XKR8\_HUMAN XK-related protein 8 OS=Homo sapiens GN=XKR8 PE=1 SV=1

MPWSSRGALLRDLVLGVLGTAAFLDLGTDLWAAVQYALGGRYLWAALVLALLGLASVAL  
QLFSWLWLADPAGLHGSQPPRRCLALLHLLQLGYLYRCVQELRQGLLVWQQEEPSEFDL  
AYADFLALDISMLRFLFETFLETAPQLTLVLAIMLQSGRAEYYQWVGICTSFLGISWALLD  
YHRALRTCLPSKPLLGLGSSVIYFLWNLLLLWPRVLAVALFSALFPSYVALHFLGLWLVL  
LLWWLQGTDFMPDPSSSEWLYRVTVATILYFSWFNVAEGRTRGRAIIHFAFLSDSILLV  
ATWVTHSSWLPSGIPLQLWLPVGCFCFLGLALRLVYYHWHLPSCCKWPDQVDGARSL  
LSPEGYQLPQNRRMTHLAQKFFPKAKDEAASPVKG

>sp|O14609|XKRY\_HUMAN Testis-specific XK-related protein, Y-linked OS=Homo sapiens  
GN=XKRY PE=2 SV=1

MFIFNSIADDIFPLISCVGAIHCNILAIRTGNDFAAIKLQVIKLIYLMIWHS�VIISPVV  
TLAFFPASLKQGSFLHLLIIYFVLLLTPWLEFSKSGTHLPSNTKIIPAWVVSMDAYLNHA  
SICCHQFSCLSAVKLQLSNEELIRDTRWDIQSYTTDFSF

>sp|P23025|XPA\_HUMAN DNA repair protein complementing XP-A cells OS=Homo sapiens GN=XPA  
PE=1 SV=1

MAAADGALPEAAALEQPAELPASVRASIERKRQRALMLRQARLAARPYSATAAAATGGMA  
NVKAAPKI IDTGGGF ILEEEEEEEQKIGKV VHQPGPVMEFDYV ICEECGKEFMDSYLMNH  
FDLPTCDNCRDADDKHKLITKTEAKQEYLLKDCLEKREPPLKFIVKKNPHHSQWGMKL  
YKLQIVKRSLEVWGSQEAL EEAKEVRQENREKMKQKKFDKKVKELRRAVRSSVWKRETI  
VHQHEYGPEENLEDDMYRKTCMCHELTYEKM

>sp|Q9H1B5|XYLT2\_HUMAN Xylosyltransferase 2 OS=Homo sapiens GN=XYLT2 PE=1 SV=2

MVASARVQKLVRRYKLAIATALAILLLQGLVVVSFSGLEED EAGEKGRQRKPRPLDPGEG  
SKD TDSAGRRGSTGRRHGRWRGRAESPGVPVAKVVRVTSRQRASRRVPPAPPPEAPGR  
QNLSGAAAGEALVGAAGFPPHGDTSVEGAPQPTDNGFTPKCEIVGKDALSALARASTKQ  
CQQEIANVVCLHQAGSLMPKAVPRHCQLTGKMSPGIQWDESQAQQPMDGPPVRIAYMLVV  
HGRAIRQLKRLKAVYHEQHFFYIHVDKRSYLHREVVELAQGYDNVRVTPWRMVTIWGG  
ASLLRMYLRSMRDLEVPGWAWDFFINLSATDYPTRTNEELVAFLSKNRDKNFLKSHGRD  
NSRFIKKQGLDRLFHECDSHMWRLGERQIPAGIVVDGGSDWFLVTRSFVEYVVYTDDPLV  
AQLRQFYTYTLLPAESFFHTVLENSLACETLVDNNLRVTNWNRLGCKCQYKHIVDWCGC  
SPNDFKPDQFLRLQQVSRPTFFARKFESTVNQEVLEILDFHLYGSYPGTPALKAYWENT  
YDAADGPSGLSDVMLTAYTAFARLSLHHAATAAPPMGTPLCRFEPRGLPSSVHLYFYDDH  
FQGYLVTQAVQPSAQGAETLEMWLMPQGSLLKLLGRSDQASRLQSLEVGTDWDPKERLFR  
NFGLLGLPLDEPVAVQRWARGPNLTATVVWIDPTYVVATSYDITVDTETETVQYKPPLSR  
PLRPGPWTVRLLQFWEPLGETRFLVLPLTFNRKLPLRKDDASWLHAGPPHNEYMEQSFQG  
LSSILNLPQPELAEEAAQRHTQLTGPALEAWTDRELSSFWSVAGLCAIGSPCPSLEPCR  
LTSWSSLSPDPKSELGPVKADGRRLR





DTLVLGDMGDLNFWDLKGRVSRGIPTHRSWVRKIRFAPGKGNQKLIAMYNDGAEVWDTK  
EVQMVSSLRSGRNVTFRILDVDWCTSDKVILASDDGCIRVLEMSMKSACFRMDEQELTEP  
VWCPYLLVPRASLALKAFLLHPWNGQYSLDISHVDYPENEEIKNLLQEQLNSLSNDIKK  
LLLDPEFTLLQRCLLVSRLYGDESELHFWTVAAHYLHLSLSEKSASTTAPKEAAPRDKLS  
NPLDICYDVLCEYFQKFQLERVNLQEVKRSTYDHTRKCTDQLLLLGQTDRAVQLLET  
SADNQHYCDLKLACLVTTVTSSGPSQSTIKLVATNMIANGKLAEGVQLLCLIDKAADAC  
RYLQTYGEWNRAAWLAKVRLNPEECADVLRRWVDHLCSPQVNQSKALLVLLSLGCFFSV  
AETLHSMRYFDRAALFVEACLKYGAFEVTEDEKLITAIYADYARSLKNLGFQKQAVLFA  
SKAGAAGKDLLNELESPKEEIEE

>sp|Q9GZL7|WDR12\_HUMAN Ribosome biogenesis protein WDR12 OS=Homo sapiens GN=WDR12 PE=1  
SV=2

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDLKGQ  
FLRMPDKHMEMENISSEEVVEIEYVEKYTAPQPEQCMFHDDWISSIKGAEEWILTSYD  
KTSRIWSLEGKSIMTIVGHTDVVKDVAWVKKDSLSCLLSASMDQTILLWEWNVERNKKV  
ALHCCRGHAGSVDSIAVDGSGTKFCGSGWDKMLKIWSTVPTDEEDEMEESTNRPRKKQT  
EQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSASWDHTIRVWDVESGLKSTLTGNKVF  
NCISYSPLCKRLASGSTDRHIRLWDPRTKDGSLVSLSTSHTGWVTSVKWSPTHEQQLIS  
GSLDNIVKLWDTRSCAPLYDLAAHEDKVLSDWDTGTLLSGGADNKLYSYRYSPTTSH  
VGA

>sp|Q9BV38|WDR18\_HUMAN WD repeat-containing protein 18 OS=Homo sapiens GN=WDR18 PE=1 SV=2

MAAPMEVAVCTDSPAAMWSCIVWELHSGANLLTYRGGQAGPRGLALLNGEYLLAAQLGKN  
YISAWELQRKDQLQKIMCPGPVTCLTASPNGLYVLGVAESIHLWEVSTGNLLVILSRH  
YQDVSLQFTGDSSHFISSGKDCVLVWSLCSVLQADPSRIPAPRHVWSSHALPITDLHC  
GFGGPLARVATSSLDQTVKLWEVSSGELLSVLFVDSIMAVTMDLAEHHMFCGGSEGSIF  
QVDLFTWPGQRERSFHPEQDAGKVFKGHRNQVTCLSVSTDGSVLLSGSHDETIVRLWDVQS  
KQCIRTVALKGPVTNAAILLAPVSMSSDFRPSLPLPHFNKHLGAEHGDEPRHGGLTLR  
LGLHQQGSEPSYLDRTQLQAVLCSTMEKSVLGGQDQLRVVTELEDEVRLRKINRDLF  
DFSTRFITRPAK

>sp|Q8NEZ3|WDR19\_HUMAN WD repeat-containing protein 19 OS=Homo sapiens GN=WDR19 PE=1 SV=2

MKRIFSLLEKTWLGAPIQFAWQKTSGNYLAVTGADYIVKIFDRHGQKRSEINLPGNCVAM  
DWDKGDVLAIVIAEKSSCIYLWDANTNKTSQLDNGMRDQMSFLLWSKVSFLAVGTVKGN  
LLIYNHQTSRKIPVLGKHTKRITCGCWAENLLALGGEDKMITVSNQEGDTIRQTQRSE  
PSNMQFFLMKMDRTSAAESMISVVLGKKTLFFLNLNEPDNPADLEFQQDFGNIVCYNWY  
GDGRIMIGFSCGHFVISTHTGELGQEIQARNHKDNLTSIAVSQTLNKVATCGDNCIKI  
QDLVDLKDMYVILNLDEENKGLTSLWTDGQLLALSTQRGSLHVFLTKLPILGDACSTR  
IAYLTSLEVTVANPVEGELPITVSVDVEPNFVAVGLYHLAVGMNRAWFYVLGENAVKK  
LKDMEYLGTVASICLHSDYAAALFEGKVQLHLIESEILDAQEERETRLFPVDDKCRILC  
HALTSDFLIYGTDTGVVQYFYIEDWQFVNDYRHPVSVKKIFPDPNGTRLVFIDEKSDGFV  
YCPVNDATYIEIPDFSPTIKGVLWENWPMKGVFIAYDDDKVYTYVFHKDTIQGAKVILAG  
STKVPFAHKPLLLYNGELTCQTQSGKVNNIYLSTHGFLSNLKDTPDELRLPMLAQNLMLK  
RFSDAWEMCRILNDEAAWNLARACLHHMEVEFAIRVYRRIGNVGIVMSLEQIKGIEDYN  
LLAGHLAMFTNDYNLAQDLYLASSCPAALEMRRDLQHWDSALQLAKHLAPDQIPFISKE  
YAIQLEFAGDYVNALAHYEKGITGDNKEHDEACLAGVAQMSIRMGDIRRGVNQALKHPSR  
VLKRDCGAILNMQFSEAAQLYEKGLYYDKAASVYIRSKNWAKVGDLLPHVSSPKIHLQ

YAKAKEADGRYKEAVVAYENAKWQSVIRIYLDHLNNPEKAVNIVRETQSLDGAKMVARF  
FLQLGDYGSIAIQLVMSKCNNEAFTLAQQHNKMEIYADIIGSEDTTNEYQSIALYFEGE  
KRYLQAGKFLLCGQYSRALKHFLKCPSSDNVAIEMAIETVQAKDELLTNQLIDHLLG  
ENDGMPKDAKYLFRLYMALKQYREAAQTAI I IAREEQSAGNYRNAHDVLFSMYAEKLSQK  
IKIPSEMATNLMILHSYILVKIHVKNGDHMKGARM LIRVANNISKFP SHIVPILTSTVIE  
CHRAGLKNSAFSFAAML MRPEYRSKIDAKYKKKIEGMVRRPDISEIEEATTPCPFCKFL  
PECELLCPGCKNSIPYCIATGRHMLKDDWTVCPHCDFPALYSELKIMLNTESTCPMC SER  
LNAAQLKKISDCTQYLRTEEEL

>sp|Q96S15|WDR24\_HUMAN WD repeat-containing protein 24 OS=Homo sapiens GN=WDR24 PE=1 SV=1

MGKKRTTSGEGRERQRLPARRFRITSPAALRADSV DGGSL LAPLLGLTDRAFSDCPD LAD  
GAMEKMSRVTTALGGSVLTGR TMHCHLDAPANAI SVCRDAAQVVVAGRSIFKIY AIEEEQ  
FVEKLNLRVGRKPSNLSCADV VWHQMDENLLATAATNGVVVTWNLGRPSRNKQDQLFTE  
HKRTVNKVCFHPT EAHVLLSGSQDGMKCFDLRRKDSVSTFSGEATEAGPREWAMAGCVP  
ILPVLSCRILRLHHSFAHGPMDAESTANDARES WGCPLYPLGLCSGPQAGQSESVRDVQ  
FSIRDYFTFASTFENG VQLWDIRRPDCERMFTA HNGPVFCCDWHPEDRGWLATGGRDK  
MVKVWDMTTHRAKEMHCVQTIASVARVKWRPECRHHLATCSMMVDHNIYVWDVRRPFVPA  
AMFEEHRDVTGTIAWRHPHDP SFLLSGSKDSSLCQHLFRDASQPVERANPEGLCYGLFGD  
LAFAAKESLVAAESGRKPYTGDRRHP IFFKRKLDPAEPFAGLASSALSVFETEPGGGGMR  
WFVDTAERYALAGRPLAELCDHNAKVARELGRNQVAQTW TMLRIIYCSPGLVPTANLNHS  
VGKGGSCGLPLMNSFN LKDMAPGLGSETR LDRSKGDARS DTVLLDSSATLITNEDNEETE  
GSDVPADYLLGDVEGEDELYLLDPEHAHPEDPECVLPQEAFLRHEI VTPPGPEHLQD  
KADSPHVSGSEADV ASLAPVDSSFSLLSVSHALYDSRLPPDFFGVLRDMLHFYAEQGDV  
QMAVSVLIVLGERVRKDI DEQTQEHWYTSYIDLLQRFR LWNVSNEVVKLSTSRV SCLNQ  
ASTTLHVNC SHCKRPMSSRGWVCDRCHRCASMC A VCHHVVKGLFVWCQGC SHGHLQHIM  
KWLEGSSHCPAGCGHLCEYS

>sp|Q8NA23|WDR31\_HUMAN WD repeat-containing protein 31 OS=Homo sapiens GN=WDR31 PE=2 SV=1

MLLLRCQLKQAPPQKVSFRFCVVMGKQSKLKHSTYKYGRPDEIIEERIQT KAFQEYSPA  
HMDTVSVVAALNSDL CVSGGDKTVVAYNWK TGNVVKRFKGHEHEITKVACIPKSSQFFS  
ASRDRMVMWDLHGSSQPRQLCGHAMVVTGLAVSPDSSQLCTGSRDNTLLLDVVTGQS  
VERASVSRNVVTHLCWVPREP YILQTSEDKTLRLWDSRGLQVAHMFPAKQHIQTYCEVSV  
DGHKCISCSNGFGGEGCEATLWDLRQTRNRICEYKGHFQTVASCVFLPRALALMPLIATS  
SHDCKVKIWNQDTGACLF TSLDGSGLTSLAVGDAISLLCASFN RGIHLLRMDHSQGLE  
LQEVA AF

>sp|Q96EX3|WDR34\_HUMAN WD repeat-containing protein 34 OS=Homo sapiens GN=WDR34 PE=1 SV=2

MATRAQPGPLSQAGSAGVAALATVGVASGPGPRGP LQDET LGVASVPSQWRAVQGIRW  
ETKSCQTASIATASASAQARNHVD AQVQTEAPVPVSVQPPSQYDIPRLAAFLRRVEAMVI  
RELKNWQSHAFDGFVNWTEQQQMV SCLYTLGYPPAQAQGLHVTSISWNSTG SVVACAY  
GRLDHGDWSTLKS FVCAWNLD RRLRPQQPSAVVEVPSAVLCLAFHPTQPSHVAGGLYSG  
EVLVWDL SRLLEDPLLWRTGLTDDTHTDPVSQV VWLPEPGHSHRFQVLSVATDGKVLLWQG  
IGVGQLQLTEGFALVMQQLPRSTKLKKHPRGETEVGATAVAFSSFDPRLFILGTEGGFPL  
KCSLAAGEAALTRMPSSVPLRAPAQFTFSPHGGPIYSVSCSPFHRNLFLSAGTDGHVHLY  
SMLQAPPLTSLQLSLKYLF AVRWSVPRPLVFAAASGKGDVQLFDLQKSSQKPTVL IKQTQ  
DESPVYCLEFNSQQTQLLAAGDAQGT VKVWQLSTEFTEQGPREAEDLDCLAAEVAA

>sp|Q5JTN6|WDR38\_HUMAN WD repeat-containing protein 38 OS=Homo sapiens GN=WDR38 PE=2 SV=1

MNSGVPATLAVRRVKFFGQHGGEVNSSAFSPDGQMLLTGSEDGCVYGWETRSGQLLWRLG  
GHTGPVKFCRFS PDGHLFASASCDCTVRLWDVARAKCLRVLKGHQRSVETVSFSPDSRQL  
ASGGWDKRVLWDVQSGQMLRLLVGHRDSIQSSDFPTVNLATGSWDSTVHIWDLRMVT  
PAVSHQALEGHSANISCLCYSASGLLASGSWDKTIHIWKPTTSSLLIQLKGHVTWVKSIA  
FSPDELWLASAGYSRMVKVWDCNTGKCLET LKGVLDAHTCAFTPDGKILVSGAADQTRR  
QISRTSKSPRDPQT

>sp|P57081|WDR4\_HUMAN tRNA (guanine-N(7)-)-methyltransferase non-catalytic subunit WDR4  
OS=Homo sapiens GN=WDR4 PE=1 SV=2

MAGSVGLALCGQTLVVRGGSRLATS IASSDDDSLFIYDCSAAEKKSQENKGEDAPLDQG  
SGAILASTFSKSGSYFALTDDSKRLILFRTPWQCLSVRTVARRCTALTFIASEEKVLVA  
DKSGDVYSFVSLEPHGCGRLELGHLSMLLDVAVSPDDRILTADRDEKIRVSWAAAPHSI  
ESFCLGHTEFVSRISSVPTQPGLLLSSSGDGT LRLWEYRSGRQLHCCHLASLQELVDPQA  
PQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQLAFQHQVWDVAFEET  
QGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADASFSSL  
YKATFDNVT SYLKKKEERLQQQLEKKQRRRSPPPGPDGHAKMRPGEATLSC

>sp|Q6PJI9|WDR59\_HUMAN WD repeat-containing protein 59 OS=Homo sapiens GN=WDR59 PE=1 SV=2

MAARWSENVVVEFRDSQATAMSVDCLGQHAVLSGRRFLYIVNLDAPFEGHRKISRQSKW  
DIGAVQWNP HDSFAHYFAASSNQ RVDLYKWKDGSGEVGTTLQGHTRVISDLWAVFEPDL  
LVTSSVDTYIYIWDIKDTRKPTVALSAVAGASQVKWNKNANCLATSHDGDVRIWDRKRP  
STAVEYLAHLSKIHGLDWHPDSEHILATSSQDNSVKFWDYRQPRKYLNILPCQVPVWKA  
RYTPFSNGLVTVMVQLRRENSLLWNVFDLNTPVHTFVGHDDVVLEFQWRKQKEGSKDY  
QLVTWSRDQTLRMWRVDSQMQRLCANDILDGVDEFIESISLLPEPEKTLHTEDTDHQHTA  
SHGEEEALKEDPPRNLEERKSDQLGLPQTLQQEFSLINVQIRNVNEMDAADRSC TVSV  
HCSNHRVKMLVKFPAQYPNNAAPSFQFINPTTITSTMKAKLLKILKDTALQKVKGQSCL  
EPCLRQLVSCLESFVNQEDSASSNP FALPNSVTPLPTFARVTTAYGSYQDANIPFPRTS  
GARFCGAGYLVYFTRPMTMHRAVSPTEPTPRSLSALSAYHTGLIAPMKIRTEAPGNRLRY  
SGSPTRSEKEQVSISSFYYKERKSRRWKS KREGSDSGNRQIKAAGKVI IQDIACLLPVHK  
SLGELYILNVNDIQETCQKNAASALLVGRKDLVQVWSLATVATDLCLGPKSDPDLETPWA  
RHPFGRQLLESLLAHYCRLRDVQTLAMLCSVF EAQSRPQGLPNPFGPFPNRSSNLV VSHS  
RYPSTSSGSCSSMSDPGLNTGGWNIAGREAEHLSSPWGESSPEELRFGSLTYSDPRERE  
RDQHDKNKRLDPANTQQFDDFKCYGEILYRWGLREKRAEVLK FVSCPPDPHKGIEFGV  
YCSHRSEVRGTQCAICKGFTFQCAICHVAVRGSSNFCLTCGHGGHTSHMEWFRTQEVC  
PTGCGCHCLESTF

>sp|Q86VZ2|WDR5B\_HUMAN WD repeat-containing protein 5B OS=Homo sapiens GN=WDR5B PE=2 SV=1

MATKESRDAKAQLALSSSANQSKEVPENPNYALKCTLVGHT EAVSSVKFSPNGEWLASSS  
ADRLIIIWGAYDGKYEKTYLGHNLEISDVAWSSDSSRLVSASDDKTLKLWDVRSGKCLKT  
LKGHSNYVFCCNFNP SNLIIISGSFDETVKIWEVKTKGCLKTL SAHSDPVSAVHFNCSGS  
LIVSGSYDGLCRIWDAASGQCLKTLVDDNPPVSFVKFSPNGKYILTATLDNTLKLWDYS  
RGRCLKTYTGHNKYCIFANFSVTGGKWIVSGSEDNLVYIWNLQTKEIVQKLQGH TDVV  
ISAACHPTENLIASAALENDKTIKLWMSNH

>sp|P61964|WDR5\_HUMAN WD repeat-containing protein 5 OS=Homo sapiens GN=WDR5 PE=1 SV=1

MATEEKKPETEAAQAQTPSSSATQSKPTPKPNYALKFTLAGHTKAVSSVKFSPNGEWL  
ASSSADKLIKIWGAYDGKFEKTISGHKLGISDVAWSSDSNLLVSASDDKTLKIWDVSSGK  
CLKTLKGHSNYVFCCNFNPQSNLIVSGSFDESVRIWDVKTGKCLKTLPAHSDPVSAVHFN

RDGSLIVSSSYDGLCRIWDTASGQCLKTLIDDDNPPVSFVKFSPNGKYILAATLDNTLKL  
WDYSKGKCLKTYTGHKNEKYCIFANFSVTGGKWIVSGSEDNLVYIWNLQTKQIVQKLQGH  
TDVVISTACHPTENIIASAALENDKTIKLWKSDC

>sp|Q8IWG1|WDR63\_HUMAN WD repeat-containing protein 63 OS=Homo sapiens GN=WDR63 PE=2 SV=1

MAPKQKKKTSRGKKRLKPVLAASEDMEPVNMESMGHPEIYPLVLTTKTQEIFNCRIDEDV  
TDEQPYKLINKEDIFEDLRNRAAVSDFHPVKKIVQEYPGNELLLVYDKDFKYGLNFYLIA  
TEEGKENYLNPPVEPEEQEYKEHIPEDVYIYKPPVSKPWVSLGSEKEIEEESVTESTKQ  
ITYMISRKRSEFGAPIKFSQDNASSVKDAYIECTAYPDKNFTLKQLEKDVGMQVIPQIKD  
ISTQTKWYTPKNATTQYYPREFSEEEKETLKQSKPLVDFLNNASISVEIALQQNEIMNTF  
IDDWKYLAEEEGTFGDKTDTHLKEYQSFTDLHSPTEKMITCVSWHPTIYGLIAVSAVRL  
SFEDRVHFSGLLLQPSLILFWSFSDPIHPQLMLESPPDIFCFKFCPSDPNIIAGGCING  
QIVMWDITAHADRIENIKAGGSRSKRATLKPMLLEPESNKEAMYIRHCAVSSIENGHKK  
VITDIHWLSDTFEINRMGSVFENRSGICQLVTC SADCTICFWDIRPQKPLTPQTTEKKK  
EESIEIPFDVPSTFLHLDLSWKPLTKVRLSKGETSLDHCPKISLNEDHLLCKTQDKMLA  
QSKTEKAEEMNPYHNLESGMANLLKPIDDFCTKFFVGTEEGEVIYTDWKMEKDPETGRML  
SKKPVSHHTIHDGTVHTIQRSPFYNDIILTVGGWNVAIWKEGVMTGPLLQSCCAPKRYTS  
GHWSLTRPGVFYIGREDGYIDIWDLLEKTHEPAQSQNICITMITYIKPWIFSSKQFIAT  
ADYYGTLHILEIPWTLSRPSTNEMASVNHYFEREVKHLEYVEQRKKIREQEKKEMELEMA  
KKKVKTYQKSKEQMKAELKMDYESYLELEKTVLINLGLIKVTEKGSYMEVM

>sp|Q9NNW5|WDR6\_HUMAN WD repeat-containing protein 6 OS=Homo sapiens GN=WDR6 PE=1 SV=1

MDALEDYVWPRAISELILLPVTGLECVGDRLLAGEGPDVLVYSLDFGGHLRMKRVQNLL  
GHYLIHGFRVRPEPNGDLDEAMVAVFGSKGLRVVKISWGQGHFWELWRSGLWNMSDWIW  
DARWLEGNIALALGHNSVLYDPVVGCIHQEVPCDTRCTLSACLIGDAWKELTIVAGAV  
SNQLLVWYPATALADNKPVPDRRISGHVGIIFSMSYLESKGLLATASEDRSVRIWKVGD  
LRVPGGRVQNIHGCFHSARVWQVKLENYLISAGEDCVCLVWSHEGEILQAFRGHQGRG  
IRAAIAHERQAWVITGGDDSGIRLWHLVGRGYRGLGVSALCFKSRSRPGTLKAVTLAGSW  
RLAVTDTGALYLYDVEVKCWEQLLEDKHFQSYCLLEAAPGPEGFLCAMANGEGRVKVV  
PINTPTAAVDQTLFPGKVHSLSWALRGYEELLLASGPGGVVACLEISAAPSGKAIFVKE  
RCRYLLPPSKQRWHTCSAFLPPGDFLVCDDRGSVLLFPSRPGLLKDPGVGGKARAGAGA  
PVVSGSGSSGGNAFTGLGPVSTLPSLHGKQGVTSVTCHGGVYTTGRDGAYYQLFVRDQ  
LQPVLRQKSCRMNWLAGLRIVPDGSMVILGFHANEFVWNPRESHEKLHIVNCGGGHRSW  
AFSDTEAAMAFAYLKGDVMLYRALGGCTRPHVILREGLHGREITCVKRVGTITLGPYEG  
VPSFMQPDDELPGESEPDLDIVITCSEDTTVCVLALPTTGSAAHALTAVCNHISSVRV  
AVWGIGTPGGPQDPQGLTAHVVSAGGRAEMHCFSIMVTPDPSTPSRLACHVMHLSSHRL  
DEYWDRQRNRHRMVKDPETRYMSLAVCELDQPGGLPLVAAACSDGAVRLFLLQDSGRIL  
QLLAETFHHKRCVLKVHSFTHEAPNQRRRLLLCSAATDGSIAFWDLTMLDHDSTVLEPP  
VDPGLPYRLGTPSLTLQAHSCGINSHTLPTREGHHLVASGEDGSLHVFVLAVEMLQLE  
EAVGEAGLVPQLRVLEEYSVPCAHAHVTLGLKILSPSIMVSASIDQRLTFWRLGHGEPTF  
MNSTVFHVDPVADMDCWVPSPEFGHRCALGGQGLEVYNWYD

>sp|Q9NW82|WDR70\_HUMAN WD repeat-containing protein 70 OS=Homo sapiens GN=WDR70 PE=1 SV=1

MERSGPSEVTGSDASGPDPQLAVTMGFTGFGKKARTFDLEAMFEQTRRTAVERSRTLEA  
REKEEEMNREKELRRQNEDIEPTSSRSNVVRDCSKSSSRDTSSSESEQSSDSSDELIGP  
PLPPKMVGKPVNFMEEDILGPLPPLNEEEEEEEEEEEEEEEEEENPVHKIPDSHEITLKH  
GKTKVSALGLDPSGARLVGGYDYDVKFWDFAFMDASFKAFRSLQPCCHQIKSLQYSNT

GDMILVVGSSQAKVIDRDGFEVMECIKGDQYIVDMANTKGHTAMLHTGSWHPKIKGEFM  
TCSNDATVRTWEVENPKKQKSVFKPRTMQGKKVIPTTCTYSRDGNLIAACQNGSIQIWD  
RNLTVHPKFHYKQAHDSGTDTSCTVFSYDGNVLASRGDDSLKLWDIRQFNKPLFSASGL  
PTMFPMTDCCFSPDDKLIIVTGTSIQRGCGSGKLVFFERRTFQRVYEIDITDASVVRCLWH  
PKLNQIMVGTGNGLAKVYYDPNKSQRGAKLCVVKTQRKAKQAETLTQDYIITPHALPMFR  
EPRQRSTRKQLEKDRDLPLKSHKPEPPVAGPGRGGRVGTGGTLSSYIVKNIALDKTDDS  
NPREALRHAKAAEDSPYWVSPAYSKTQPKTMFAQVESDDEEAKNEPEWKKRKI

>sp|Q3MJ13|WDR72\_HUMAN WD repeat-containing protein 72 OS=Homo sapiens GN=WDR72 PE=2 SV=2

MRTSLQAVALLWGQKAPPHSITAIMITDDQRTIVTGSQEGQLCLWNLSHELKISAKELLFG  
HSASVTCLARARDFSKQPYIVSAAENGEMCVWNTNGQCMEKATLPYRHTAICYHCSFR  
MTGEGWLLCCGEYQDVLIIIDAKTLAVVHSFRSSQFPDWINCMCIVHSMRIQEDSLLVSV  
AGELKVWDLSSINSIQEKQDVYEKESKFLESLNCQTIIRFCTYTERLLLTVVFSKCWKVYD  
YCDFSLLLTEVSRNGQFFAGGEVIAAHRILIWTEDEGHSYIYQLNSGLSKSIYPADGRVL  
KETIYPHLLCSTSVQENKEQSRPFVMGYMNERKEPFYKVLFSGEVSGRITLWHIPDVPVS  
KFDGSPREIPVTATWTLQDNFDKHDMSQSIIIDYFSGLDGAGTAVVTSSEYIPSLDKLI  
CGCEDGTIIITQALNAAKARLLEGGSLVKDSPPHKVLKGHHQSVTSLLYPHGLSSKLDQS  
WMLSGDLDDSCVILWDIFTEEILHKFFLEAGPVTSLMSPEKFKLRGEQIICCVCGDHSVA  
LLHLEGKSCLLHARKHLFPVRMIKWHPVENFLIVGCADDSVYIWEIETGTLERHETGERA  
RIILNCCDDSQLVKSVLPIASETLKHKSIEQRSSSPYQLGPLPCPLQVESSCKVTDKAF  
CPRPFNVLPVKTKWSNVGFHILLFDLENLVELLLPTPLSDVDSSSFYGGEVLRRAKSTV  
EKKTLTLRKSKTACGPLSAEALAKPITESLAQGDNTIKFSEENDGIKRQKMKISKMKQP  
KPSRKVDASLTIDTAKLFLSCLLPWGVDKDLDYLCIKHLNILKLQGPISLGISLNDNFS  
LMLPGWDLCSNGMIKDYSGVNLFSRKVLDSLKYATATLPNQVGIPRGLENNCDLRESDT  
IVYLLSRLFLVNKLNVMPLELACRVGSSFRMESIHNMKGAGNDILNMSSFYSCLRNKGN  
ESHVPEADLSLLKLISCWRDQSVQVTEAIQAVLLAEVQQHMKSLGKIPVNSQPVMAENG  
NCCEMKMLPKLEWTEELELQCVRNTPPLQTPVSPVKHDSNSNSANFQDVEDMPDRCALEE  
SESPGEPRHHSWIAKVCCKVS

>sp|Q6P4I2|WDR73\_HUMAN WD repeat-containing protein 73 OS=Homo sapiens GN=WDR73 PE=1 SV=1

MDPGDDWLVESRLRYQDFYAFDLGATRVLEWIDDKGVFVAGYESLKKNEILHLKLPLRL  
SVKENKGLFPERDFKVRHGGFSDRSIFDLKHVPHTRLLVTSGLPGCYLQVWQVAEDSDVI  
KAVSTIAVHEKEESLWPRVAVFSTLAPGVLHGARLRLQVVDLESRKTTYTSDVSDSEEL  
SSLQVLADDTFAFCCASGRGLVDTRQKWAPLENRSPGPGSGGERWCAEVGSWGQGPS  
IASLGS DGRLCLLDPRDLCHPVSSVQCPVSPSPDPELLRVTWAPGLKNCLAI SGFDGT  
QVYDATSWDGTQRSDGTQRQVEPLFTHRGHIFLDGNGMDPAPLVTTHTWHPCRPTLLSA  
TNDASLHVWDWDLCAPR

>sp|Q8IWA0|WDR75\_HUMAN WD repeat-containing protein 75 OS=Homo sapiens GN=WDR75 PE=1 SV=1

MVEEENIRVVRCCGSELNFRRAVFSADSKYIFCVSGDFVKVYSTVTEECVHILHGHRLV  
TGIQLNPNNHLQLYSCSLDGTIKLWDYIDGILIKTFIVGCKLHALFTLAQAEDSVFVIVN  
KEKPDIFQLVSVKLPKSSSQVEAKELSFVLDYINQSPKCIAFGNEGYYAAVREFYLSV  
YFFKKKTTSRFTLSSSRNKKHAKNNFTCVACHPTEDCIASGHMDGKIRLWRNFYDDKKYT  
YTCLHWHHDMVMDLAFSVTGTSLSSGGRESVLVEWRDATEKNKEFLPRLGATIEHISVSP  
AGDLFTSHSDNKIIIIHRNLEASAVIQGLVKDRSIFTGLMIDPRTKALVLNGKPGHLQF  
YSLQSDKQLYNLDIIIQEYINDYGLIQIELTKAAFGCGFNWLATVEQRQEKETELELQMK  
LWMYNKKTQGFILNTKINMPHEDCITALCFCNAEKSEQPTLVTASKDGYFKVWILTDDSD

IYKAVGWTCDFVGSYHKYQATNCCFSEDGSL LAVSFEEIVTIWDSVTWELKCTFCQRAG  
KIRHLCFGR LTC SKYLLGATENGILCCWNLLSCALEWNAKLNVRVMEPD P NSENIAAISQ  
SSVGS DLFVFKPSEPRPLYIQKGISREKVQWGVFVPRDVPESFTSEAYQWLNRSQFYFLT  
KSQSLLTFSTKSPEEKLTPTSKQLLAEESLPTTPFYFILGKHRQQQDEKLN ETLENELVQ  
LPLTENIPAISELLHTPAHVLPSAAFLCSMFVNSLLLSKETKSAKEIPEDVDMEEKESE  
DSDEENDFTEKVQDTSNTGLGEDI IHQLSKSEEKELRKFRKIDYSWIAAL

>sp|Q86TI4|WDR86\_HUMAN WD repeat-containing protein 86 OS=Homo sapiens GN=WDR86 PE=2 SV=3  
MGGGGSALRVCADHRGGINWLSLSPDGQRLLTGSEDGTARLWSTADGQCCALLQGHESYV  
TFCQLEDEAAFTCSADCTIRRDVLTGQCLQVYRGHTSIVNRILVANNQLFSSSYDRTAR  
VWSVDKGQMSREFRGRNCVLT LAYSAPWDL PSTPCAEEAAAGLLVTGSTDGTAKVWQV  
ASGCCHQTLRGHTGAVLCLVLDTPGHTAFTGSTDATIRAWDILSGEQLRVFREHRGSVIC  
LELVNRLVYSGSADRTVKCWLADTGECVRTFTAHRNVSALKYHAGTLFTGSGDACARAF  
DAQSGELRRVFRGHTFIINCIQVHGQVLYTASHDGALRLWDVRGLRGAPRPPPPMRSLSR  
LFSNKVGC AAAPLQPA

>sp|A4D1P6|WDR91\_HUMAN WD repeat-containing protein 91 OS=Homo sapiens GN=WDR91 PE=1 SV=2  
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LRDYWSYLERRLFSRLEDIYRPTIHKLKTSLFRFYLVYTIQTNRNDKAQEFFAKQATELQ  
NQA EWKDWFLVPFLPSPDTNPTFATYFSRQWADTFIVSLHNFLSVLFQCMPPVPIVILNFDA  
ECQRTNQVQEENEVL RQKLFALQAEIHRLKKEEQQPEEEALVQHKLPPYVSNMDRLGDS  
ELAMVCSQRNASLSQSPRVGFLSSLLPQSKKSPSRLSPAQPPQPQSSAKKESFGGQGTK  
GKDPTSGAKDGKSLSSGLATGESGWSQHRQRRLQDHGKERKELFSTTTSQCAEKKPEASG  
PEAEPCPELHTEPVEPLTRASSAGPEGGVRPEQPFIVLGQEEYGEHHSSIMHCRVDCSG  
RRVASLDVDGVIKVWSFNPIMQTKASSISKSPLLSLEWATKRDRLLLLGSGVGTVRLYDT  
EAKKNLCEININDNMPRILSLACSPNGASFVCSAAAPSLTSQVDFSAPDIGSKGMNQVPG  
RLLLWDTKTMKQQLQFSLDPEPTAINCTAFNHNGNLLVTGAADGVIRLFDMQQHECAMSW  
RAHYGEVYSVEFSYDENTVYSIGEDGKFIQWNIHKSGLKVSEYSLPSDATGPFVLSGYSG  
YKQVQVPRGRLFAFDSEGNMMLTCSATGGVIYKLGDEKVL ESCLSLGGHRAPVVTVDWS  
TAMDCGTCLTASMDGKIKLTLLAHKA

>sp|A6NE52|WDR97\_HUMAN WD repeat-containing protein 97 OS=Homo sapiens GN=WDR97 PE=2 SV=2  
MEAEVWEAEGYNLVLDSDLYDADGYDVPDPGLLTEKNELTFTEPSQVLPFLTSSQQWQSL  
TPRARARRLWLLR TSLHEVVEKEKRAELRAARLTHGLEPLRRLEVAAGLRSVAQDPVGG  
RFVVL DGAGRLHLHKEDGWAQETLLAPVRLTGLVTVLGPLGAVGRFVGWGPAGLA ILRPN  
LSLLWLSEQGVGRAPGWAPTCCLPVPDLRLLLVAEMNSSLALWQFRSGGRRLVLRGSALH  
PPPSPTGRMLRAVAPVPPHHVLRCAAYGSAVLTFDLHAWTLVDVRRDLHKTTISDLAY  
CEEVEAMVTASRDSTVKVWEADWQIRMVFGHTGPVTAMTVLPNTTLVLSASQDGLRTW  
DLQAAQVGEVALGFWGQDKLSRRVGRLLAPVRPGWPVLSLCASSMQLWRVRELYSPLAQ  
LPKAVLHVQVAPALPAPAHQSLPTRLVCACADG SVYLLSAATGRIVSSLLLEPEDCAAAV  
AYCLPREALWLLTRAGHLVRANAARCPMSVLHRVCP PPPPPAPQPCCLHLYSHLTDLEGAF  
SSWEIVRQHWGELRCSSVACA WKNKNRYLPVVGHTDGTLSVLEWLS SKTVFQTEAHSPGP  
VVAIASTWNSIVSSGDLTVKMWRVFPYAEESSLRRTFSCCYPAVALCALGRRVTAGFE  
DPDSATYGLVQFGLGDSPRLDHRPQDDPTDHITGLCCCPTLKLYACSSLDCTVRIWTAEN  
RLLRLLQLNGAPQALAFCSNSGDLVLALGSRLCLVSHRLYLPTS YLVKKMCRKAPDVVDD  
PPLPLMSQESL TSAQLQRLTNLHGAASLSEALSIHRRRATSQHLVPKEDLDAIVARDRD  
LQQLRLGLVVPAAQPPPSWQQRQEGFDNYLR LIYGSGLLGMQSGRGSQQWSAGTLRVERE

TRDVCAPVQAAHCLARAEVSTAAQTVPTALSPQDLGALGQHFSQSPRVTVPIPPTHRRVH  
SKASQLLARSSLSHYLGISLDLQLQLEQLRGRTTMALDLPSSHLQCRIPLLPKRWDKEPL  
SSLRGFFPATVQPHKHCLRPICFPGYVPNSAVLQQMWLNAEPGASQDALWLRPRPSQTQ  
WQRKLLQWMGEKPGEEGEEDKKEEEEEKEDEELDWALASLSPHSNQQLDSELEDQSAVD  
WTQEPRRRSCKVARTHPHPWHRHGSLLLDEHYGHLPKFLHFFIYQTWFKKLFPIFSLQAY  
PEAGTIEGLASLLVALLEKTTWVDRVHILQVLLRLLPNMSSDLQGQLQGILLVHLLNLDQP  
PSLQDQTQKKFVILALQLLACSLERDVLLEMSYFLYSPVHCRPELKKLLHGLGLQDP  
EGFLFKEMMTWVQGPDLDSKAGLRTCCHQKLEDMIQELQETPSQTSVVSGAPTRASVIPS  
GTSWSASGIFGRLSQVSEVPLMVVSPAEPHSLAPELQAQRMLAPKRSWGPQLRLRVLSE  
TLKSFCLEPEARLHPAGPAQLPGEPPLLEETDWSHSQLLDLGPIDALNFFCEQLRAQQRS  
SLQEKAAPHPPEPYTVAPVPMVPPPREHWYHPILRLQEAKPQRSARSAMRLRGPMS  
RLCAGRTLDPGPIRTLKLPLPRVEPQPFPLDWPMPRPLPRLLQPALQRYFLPADADPDT  
YS

>sp|POC1S8|WEE2\_HUMAN Wee1-like protein kinase 2 OS=Homo sapiens GN=WEE2 PE=2 SV=2

MDDKDIDKELRQKLNFSYCEETEIEGQKKVEESREASSQTPEKGEVQDSEAKGTPPWTP  
SNVHELDTSSEKDKEPDQILRTPVSHPLKCPETPAQPDSSKLLPSDSPSTPKTMLSRL  
VISPTGKLPSRGPKHLKLTAPLKDMLSLALVNINPFTPESYKKLFLQSGGKRKIRGDL  
EEAGPEEGKGGPLAKRCVLRETNMASRYEKEFLEVEKIGVGEFGTVYKCIKRLDGCYVAI  
KRSMKTFTELSNENSALHEVYAHAVLGHHPHVVRYYSSWAEDDHMI IQNEYCNGGSLQAA  
ISENTKSGNHFEELPKDILLQISLGLNYIHNSSMVHLDIKPSNIFICHKMQSESSGVIE  
EVENEADWFLSANVMYKIGDLGHATSINKPKVEEGDSRFLANEILQEDYRHLPKADIFAL  
GLTIAVAAGAESLPTNGAAWHHIRKGNFPDVPQELSESFSSLLKNMIQPDAEQRPSAAAL  
ARNTVLRPSLGKTEELQQQLNLEKFKTATLERELREAQQAQSPQGYTHHGDTGVSGTHTG  
SRSTKRLVGGKSARSSSFTSGEREPLH

>sp|Q93098|WNT8B\_HUMAN Protein Wnt-8b OS=Homo sapiens GN=WNT8B PE=2 SV=3

MFLSKPSVYICLFTCVLQLSHSVNNFLMTGPKAYLIYSSVAAGAQSGIEECKYQFAW  
DRWNCPERALQLSSHGGLRSANRETAFAVHAISSAGVMYTLTRNCSLGDNDNCGCDDSRNG  
QLGGQGWLWGGCSDNVGFGEAISKQFVDALETGQDARAAMNLHNNEAGRKAVKGTMKRTC  
KCHGVSGSCTTQTCWLQLEFREVGAHLKEKYHAALKVDLLQGAGNSAAGRGAIAIDTFRS  
ISTRELVHLEDSPDYCLNKTLLGTEGRECLRRGRALGRWERRSCRRLCGDCGLAVEE  
RRAETVSSCNCKFHWCACVRCEQCRRRVTKYFCSRAERPRGGAHKGPRKP

>sp|000308|WWP2\_HUMAN NEDD4-like E3 ubiquitin-protein ligase WWP2 OS=Homo sapiens GN=WWP2  
PE=1 SV=2

MASASSRAGVALPFEKSQLTLKVVSAPKPKVHNRQPRINSYVEVAVDGLPSETKKTGKRI  
GSSELLWNEIIILNVTAQSHLDLKVWSCHTLRNELLGTASVNLNVLKNNGGKMENMQLT  
LNLQTENKGSVVGELTIFLDGPTVDLGNVPNGSALTDGSQLPSRDSSGTAVAPENRHQ  
PPSTNCFGGRSRTHRHSGASARTTPATGEQSPGARSRRHQPVKNSGHSGLANGTVNDEPT  
TATDPEEPSVVGVTSPPAAPLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPD  
ALPAGWEQRELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYVDHNTRTTTWQR  
PTAEYVRNIEQWQSQRNLQGAMQHFSQRFLYQSSSASTDHDPLGPLPPGWEKRDNGRV  
YYVNHNTRTTQWEDPRTQGMIEPALPPGWEMKYTSEGVRYFVDHNTRTTTFKDPRPGFE  
SGTKQGSFGAYDRSFRWKYHQFRFLCHSNALPSHVKISVSRQTLFEDSFQQIMNMKPYDL  
RRRLYIIMRGEGLDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPD  
HLTYFRFIRFIAMALYHGKFIDTGFTLPFYKRMLNKRPTLKDLESIDPEFYNSIVWIK



NNLEECGLELYFIQDMEILGKVTTHLKEGGESIRVTEENKEEYIMLLTDWRFTRGVVEEQ  
TKAFLDGFNEVAPLEWLRYFDEKELELMLCGMQEIDMSDWQKSTIYRHYTKNSKQIQWFW  
QVVKEMDNEKRIRLLQFVTGTCLRPVGGFAELIGSNGPQKFCIDKVGKETWLP RSHTCFN  
RLDLPPYKSYEQLREKLLYAIEETEGFGQE

>sp|P55808|XG\_HUMAN Glycoprotein Xg OS=Homo sapiens GN=XG PE=2 SV=1

MESWWGLPCLAFCLFHMARGQRDFDLADALDDPEPTKKPNSDIYKPKPPYYPQENPD  
SGGNIYPRPKPRPQPQPGNSGSGGYFNDVDRDDGRYP RP RP RP P P A G G G G G Y S S Y G N S  
DNTHGGDHHSTYGNPEGNMVAKIVSPIVSVVVVTLGAAASYFKLNNRRNCFRTHPENV

>sp|O43543|XRCC2\_HUMAN DNA repair protein XRCC2 OS=Homo sapiens GN=XRCC2 PE=1 SV=1

MCSAFHRAESGTELLARLEGRSSLKEIEPNLFADEDSPVHGDILEFHGPEGTGKTEMLYH  
LTARCILPKSEGGLEVEVLFDIDYHFDMLRLVTILEHRLSQSSEEI IKYCLGRFFLVYC  
SSSTHLLLTLYSLESMFCSHPSLCLLILDSLSAFYWIDRVNGGESVNLQESTLRKCSQCL  
EKL VNDYRLVLFATTQTIMQKASSSSEEPSHASRRLCDVDIDYRPYLCKAWQQLVKHRMF  
FSKQDDSQSSNQFSLVSRCLKSNSLKKHFFIIGESGVEFC

>sp|Q13426|XRCC4\_HUMAN DNA repair protein XRCC4 OS=Homo sapiens GN=XRCC4 PE=1 SV=2

MERKISRHLVSEPSITHFLQVSEKTLSESGFVITLTDGHS AW TGT VSESEISQEADDMA  
MEKGKYVGELRKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPA  
EVIRELICYCLDTIAENQAKNEHLQKENERLLRDWNDVQGRFEKCVSAKEALETDLYKRF  
ILVLNEKKT KIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADRPVYDESTDEESENQ  
TDL SGLASAAVSKDDSIISSLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKENS  
R PDSSLPETSKEHISAENMSLETLRNSSPEDL FDEI

>sp|P13010|XRCC5\_HUMAN X-ray repair cross-complementing protein 5 OS=Homo sapiens  
GN=XRCC5 PE=1 SV=3

MVRSGNKA AVVL CMDVGFTMSNSIPGIESPFEQAKKVITMFVQRQVFAENKDEIALVLF  
G TDGTDNPLSGGDQYQNTIVHRHMLP PDFD LLEDIESKIQPGSQQADFLDALIVSMDVIQH  
ETIGKKFEKRHIEIFTDLSSRFSKSQLDIIHSLKKCDISLQFFLPFSLGKEDGSGDRGD  
GPFR LGHGPSFPLKGITEQQKEGLEIVKMVMISLEGEDGLDEIYSFSESLRKLCVFKKI  
ERHSIHWPCLTIGSNLSIRIAAYKSILQERVKKTWTVVDAKTLKKEDIKETVYCLNDD  
DETEVLKEDI IQGFRYGS DIVPFSKVDEEQMKYKSEGKCFSVLGFCKSSQVQRRFFMGNQ  
VLKVFAARDDEAAVALSSLIHALDDLDMVAIVRYAYDKRANPQVGVAFPHIKHNYECLV  
YVQLPFMEDLRQYMFSSLKN SKKYAPTEAQLNAVDALIDSMSLAKKDEKTDLTLEDLFP  
TT KIPNPRFQRLFQCLLHRALHPREPLPIQQHIWNMLNPPAEVTTKSQIPLSKIKTLFPLI  
EAKKKDQVTAQEIFQDNHEDGPTAKKLKTEQGAHFSVSSLAEGSVTSVGSVNPAENFRV  
LVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAFREEAIKFSEEQRFN NFK  
L ALQEKEVEIKQLNHFWEIVVQDGITLITKEEASGSSVTAEAEAKKFLAPKDKPSGD TAAVFE  
EGGDVDDLDDMI

>sp|P12956|XRCC6\_HUMAN X-ray repair cross-complementing protein 6 OS=Homo sapiens  
GN=XRCC6 PE=1 SV=2

MSGWESYYKTEGDEEAEEEEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPF  
DMSIQCIQSVYISKIISDRDLLAVVFYGTEDKNSVNFKNIVVLQELDNPGAKRILELD  
QFKGQQGQKRFQDMMGHGSDYSLSEVLWVCANLFSVDVQFKMSHKRIMLFTNEDNPHGND  
S AKASRARTKAGDLRDTGIFLDLMLHLKKPGGFDISLFYRDIISIAEDEDLRVHFEESKLE  
DLLRKVRAKETRKRALSRLKLKNKDIVISVGIYNLVQKALKPPP IKLYRETNEPVKTKT  
RTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHH

YLRPSLFVYPEESLVIGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEEL  
DDQKIQVTPPGFQLVFLPFADDKRKMPFTEKIMATPEQVGKMKAIVEKLRFTYRSDSFEN  
PVLQQHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRLGSLVDEFKELVYPPDYNPEGKV  
TKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLEACRAYGLKSGLKKQELL  
EALTKHFQD

>sp|075695|XRP2\_HUMAN Protein XRP2 OS=Homo sapiens GN=RP2 PE=1 SV=4

MGCFFSKRRKADKESRPENEEERPKQYSWDQREKVDPKDYMFSGLKDETVGRLPGTVAGQ  
QFLIQDCENCNIYIFDHSATVTIDCTNCIIFLGPVKGSVFFRNCRDCKCTLACQQFRVR  
DCRKLEVLCCATQPIIESSSNIKFGCFQWYYPELAFQFKDAGLSIFNNTWSNIHDFTPV  
SGELNWSLLPEDAVVQDYVPIPTTEELKAVRVSTEANRSIVPISRGQRQKSSDESCLVVL  
FAGDYTIANARKLIDEMVGKGFVLVQTKEVSMKAEDAQRVFREKAPDFLPLLNGPVIAL  
EFNGDGAVEVCQLIVNEIFNGTKMFVSEKETASGDVDSFYNFADIQMG

>sp|Q8NBI6|XXLT1\_HUMAN Xyloside xylosyltransferase 1 OS=Homo sapiens GN=XXLT1 PE=1 SV=1

MGLLRGGLPCARAMARLGAVRSHYCALLLAAALAVCAFYYLGSGRETFSSATKRLKEARA  
GAPAAPSPPALELARGSVAPAGAKAKSLEGGGAGPVDYHLLMMFTKAEHNAALQAKARV  
ALRSLRLAKFEAHEVLNLHFVSEEASREVAKGLLRELLPPAAGFKCKVIFHDVAVLTDK  
LFPIVEAMQKHFSAGLGTYYSDSIFFLSVAMHQIMPKEILQIIQLDLDLKFTNIREFE  
EFDSFLPGAIIIGIAREMQPVYRHTFWQFRHENPQTRVGGPPPEGLPGFNSGVMLLNLEAM  
RQSPLYSRLLLEPAQVQQLADKYHFRGHLGDQDFFTMIGMEHPKLFHVLDTWNRQLCTWW  
RDHGYSADVFEAYFRCEGHVKIYHGNCNTPIPED

>sp|Q99986|VRK1\_HUMAN Serine/threonine-protein kinase VRK1 OS=Homo sapiens GN=VRK1 PE=1 SV=1

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SVGSDAPCVVKVEPSDNGPLFTELKIFYQRAAKPEQIQKWIRTRKLKYLGVPKYWGSLHD  
KNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVLQLSLRILDILEYIHEHEYVHGDICA  
SNLLLNKYNPDQVYLVLDYGLAYRYCPEGVHKEYKEDPKRCHDGTIEFTSIDAHNGVAPSR  
RGDLEILGYCMIQWLTGHLPWEDNLDPKYVRDSKIRYRENIASLMDKCFPEKNKPGEIA  
KYMETVKLLDYTEKPLYENLRDILLQGLKAIGSKDDGKLDLSVVENGGLKAKTITKKRKK  
EIEESKEPGVEDTEWSNTQTEEAIQTRSRTKRKVQK

>sp|Q86Y07|VRK2\_HUMAN Serine/threonine-protein kinase VRK2 OS=Homo sapiens GN=VRK2 PE=1 SV=3

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KVEYQENGPLFSELKIFYQRAAKDCIKKWIERKQLDYLGIPLFYGSGLTEFKGRSYRFMV  
MERLGIDLQKISGQNGTFKKSTVLQLGIRMLDVLEYIHENEYVHGDICANLLGYKNPD  
QVYLADYGLSYRYCPNGNHKQYQENPRKGHNGTIEFTSLDAHKGVALSRRSDVEILGYCM  
LRWLCGKLPWEQNLKDPVAVQTAKTNLLDELPQSVLKWAPSGSSCEIAQFLVCAHSLAY  
DEKPNYQALKKILNPHGIPLGPLDFSTKGQSINVHTPNSQKVDSQKAATKQVNKAHNRLI  
EKKVHSERSAESCATWKVQKEEKLIGLMNNEAAQESTRRRQKYQESQEPLNEVNSFPQKI  
SYTQFPNSFYEPHQDFTSPDIFKKSRSWSYKYTSTVSTGITDLESSTGLWPTISQFTLS  
EETNADVYYYRIIPVLLMLVFLALFFL

>sp|A3KMh1|VWA8\_HUMAN von Willebrand factor A domain-containing protein 8 OS=Homo sapiens GN=VWA8 PE=1 SV=2

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GDVSYKLKIPKNPELVPQNYISDSLAQSVVQHLRWIMQKDLLGQDVFLIGPPGPLRRSIA

MQYLELTKREVEYIALSRDTTETDLKQRREIRAGTAFYIDQCAVRAATEGRTLILEGLEK  
AERNVLPVLNNLLENREMQLEDGRFLMSAERYDKLLRDHTKKELDSWKIVRVSENFVIA  
LGLPVPRYSGNPLDPLRSRFQARDIYYLPFKDQLKLLYSIGANVSAEKVSQLLSFATTL  
CSQESSTLGLPDFPLDSLAAAVQILDSFPMPIKHAIQWLYPYSILLGHEGKMAVEGVK  
RFELQDSGSSLLPKEIVKVEKMMENHVSQASVTIRIADKEVTIKVPAGTRLLSQPCASDR  
FIQTLSHKQLQAEMMQSHMVKDICLIGGKCGKTVIAKNFADTLGYNIEPIMLYQDMTAR  
DLLQQRYYTLPNGDTAWRSSPLVNAALEGKLVLDDGIHRVNAGTLAVLQRLIHDRELSLYD  
GSRLREDRYMRLKEELQLSDEQLKRSIFPIHPSFRIIALAEPVIGSTAHQWLGPEFL  
TMFFFHYMKPLVKSEEIQVIKEKVPNPQEALDKLSFTHKLRETQDPTAQSLAASLSTR  
QLLRISRRLSQYPNENLHSAVTKACLSRFLPSLARSALKENLADATIEINTDDNLEPELK  
DYKCEVTSGLTRIGAVSAPIYNAHEKMKVPDVLFYDNIQHVIIVMEDMLKDFLLGEHLLLV  
GNQGVGKNKIVDRFLHLLNRPREYIQLHRDTTVQTLTLQPSVKDGLIVYEDSPLVKAVKL  
GHILVVDEADKAPTNVTCILKTLVENGEMILADGRRIVANSANVNGRENVVVIHPDFRMI  
VLANRPGFPFLGNDFFGTLDIFSCHAVDNPKEHSELEMLRQYGNVPEPILQKLVAAFG  
ELRSLADQGIINYPYSTREVVNIVKHLQKFPTEGLSSVVRNVDFDSDYNNDMREILINTL  
HKYGIPIGAKPTSVQLAKELTLPEQTFMGYWTIGQARSGMQKLLCPVETHHIDIKGPALI  
NIQEYPIERHEERSLNFTEECASWRIPLDEINIIICDIATSHENEQNTLYVVTCPNPSLYF  
MMMTGKSGFFVDFDIFPRTANGVWHPFVTVAPLGSPKGGVVLHEQQSNVILLDDTTGR  
ALHRLILPSEKFTSKKPFWWNKEEAETYKMKKEFSHKNWLVFYKEKGNLTVLDVLEGRT  
HTISLPINLKTVFLVAEDKWLLVESKTNQKYLTKPAHIESESGVCQLYVLKEEPPSTG  
FGVTQETEFSEIPHKISSDQLSSEHLSSAVEQKIASPNRILSDEKNYATIVVGFPDLMSPS  
EVYSWKRPSSLHKRSGTDTSFYRGKKKRGTPKQSNCVTLTLDTNQVVRILPPGEVPLKDIY  
PKDVTTPPQTSYIEVTDLQSKKLYRIPIPRSESLSPYTTWLSTISDTDALLAEWDKSGVV  
TVDMGGHIRLWETGLERLQRSLMEWRNMIGQDDRNMQITINRDSGEDVSSPKHGKEDPDN  
MPHVGNTWAGGTGGRDTAGLGGKGGPYRLDAGHTVYQVSQAEKDAVPEEVKRAAREMGQ  
RAFQRLKEIQMSEYDAATYERFSGAVRRQVHSLRIILDNLQAKGKERQWLRHATGELD  
DAKIIDGLTGEKAIYKRRGELEPQLGSPQQKPKRLRLVVDVSGSMYRFNRMDGRLERTME  
AVCMVMEAFENYEEKFYDIVGHSGDGYNIGLVPMNKIPKDNKQRLILKTMHAHSQFCM  
SGDHTLEGTEHAKEIVKEEADEYFVIVLSDANLSRYGIHPAKFAQILTRDPQVNAFAIF  
IGSLGDQATRLQRTLPAGRSFVAMDTKDIPQILQQIFTSTMLSSV

>sp|Q8N2E2|VWDE\_HUMAN von Willebrand factor D and EGF domain-containing protein OS=Homo  
sapiens GN=VWDE PE=2 SV=4

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PGWYRFLILDRPAEMPTKCEVMNHCGTQAPIWLSLRDSETLPSPGEIKQLTACATWQFLF  
STTKDCCLFQIPVSVRNCGNFSVYLLQPTQGCMEGYCAEISDARLHPCGSDDETETGGDCV  
RQLAASLPPPPAGRPEVLVELIESRLFCRCSFDVPATKNSVGFHIAWSRLSSQEVEKEELT  
QETTVQAFSLLELDGINLRLGDRIFCSASVFLENPHVQSVAIESQEFFAGFKLQPELST  
ISEDGKEYYLRIESTVPIICSEFSELDQECKISLKLKTIGQGREHLGLNLALSSCHVDLL  
QTSSCANGTCSHTFVYYTAVTDFSRDGDVSNIVVQPIVNEFLWNNYIPDSIQIKVKDV  
PTAYCYTFTDPHIITFDGRVYDNFKTGTFVLYKSMSRDFEVHVRQWDCRSLHYPVSCNCG  
FVAQEGGDIVTFDMCNGQLRESQPYLFIKSQDVTRNIKISESYLGRKVTIWFSSGAFIRA  
DLGEWGMSLTIRAPSVDYRNTLGLCGTFDENPENDFHDKNGMQIDQNFNNYVAFINEWRI  
LPKSMSTLPLVSMTPSGKPSYCSCSLDTAAYPSSDLDSVSRSEIALGCKDLNHVSLSS  
LIPLELDTSEYINSDTLVREINKHTSPEEYNLNLFLQEKKHINLTKLGLNVQKHPGNEKE

>sp|Q9NQA3|WASH6\_HUMAN WAS protein family homolog 6 OS=Homo sapiens GN=WASH6P PE=1 SV=3  
MAFHEMQAHKNALGTSGEQQAADITGTPHQGGWKQVEQSRSQVQAIGEKVSLAQAKIEK  
IKGSKKAIKVFSSAKYPAPERLQEYGSIFTGAQDPGLQRRPRHRIQSKHRPLDERALQEK  
LKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLLFNTTENLYKKYVFLDPLAGAVTK  
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SAPPLPPSTAAPVGQGARQDDGSSSASPSVQGAPREVVDPSGGWATLLESIRQAGGIGKA  
KLRSMKERKLEKKKQKEQEQRATSQGGHMSDLFNKLVMRKGTSGKGPAGAGEGPGGAF  
ARVSDSIPPVPPPPQPPQAEDEDDWES

MPFLLGLRQDKEACVGTNNQSYICDTGHCCGQSQCENYYYELWWFWLVWTIIIIILSCCCV  
CHHRRAKHRLQAQQRQHEINLIAYREAHNYSALPFYFRFLPNYLLPPYEEVVRPPTPP  
PYSAFQLQQQLLPPQCGPAGGSPPGIDPTRGSQAQSSPLSEPSRSSTRPPSIADPDPS  
DLPVDRAATKAPGMEPSGSVAGLGELDPGAFLDKDAECREELLKDDSSSEHGAPDSKEKTP  
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QSSEEQAREPGHPHLPRPPACLLNTINEQDSPNSQSSSSPS

MALNKNHSEGGGVIVNNTESILMSYDHVELTFNDMKNVPEAFKGTKKGTVYLTPIRYVIFL  
SKGKDAMQSFMMPPFYLMDCEIKQPVFGANYIKGTVKAEEAGGGWEGSASYKLTF TAGGAI  
EFGQRMLQVASQASRGEVPSGAYGYSYMPSGAYVYPPPVANGMYPCPPGYPPPPPEFY  
PGPPMMDGAMGYVQPPPPPYPGMEPPVSGPDVPSTPAAEAKAAEAAA SAYYNPGNPHNV  
YMPTSQPPPPPYPPEDKKTQ

MAAEIQPKPLTRKPIILLQRMEGSQEVVNMAVIVPKEEGLVSVSEDRTVRVWLKRDSGQYW  
PSVYHAMPSPCSCMSFNPETRRLSIGLDNGTISEFILSEDYNKMPVKNYQAHQSRVTMI  
LFVLELEWVLSTGQDKQFAWHCSESGQRLGGYRTSAVASGLQFDVETRHVFIGDHSQGT  
ILKLEQENCLVTTFRGHTGGVTALCWDPPVQRVLFSGSSDHSVIMWDIGGRKGTAIELG

HNDRVQALSQAQHTRQLISCGDGGIVVWNMDVERQETPEWLSDSCQKCDQPPFFWNFKQ  
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TFHDSKHNIHVHFDATRGWLLTSGTDKVIKLWDMTPVVS

>sp|075717|WDHD1\_HUMAN WD repeat and HMG-box DNA-binding protein 1 OS=Homo sapiens  
GN=WDHD1 PE=1 SV=1

MPATRKPMRYGHTEGHTEVCFDDSGSFIVTCGSDGDVRIWEDLDDDDPKFINVGEKAYSC  
ALKSGKLVTAVSNNITQVHTFPEGVPDGLTRFTTNANHVVFNGDGTKIAAGSSDFLVKI  
VDVMDSSQKQKTRFGHDAPVLSLSFDPKIDFLASASCDGSRVWQISDQTCAISWPLLQKC  
NDVINAKSICRLAWQPKSGKLLAIPVEKSVKLYRRESWSHQFDLSDNFISQTLNIVTWSP  
CGQYLAAGSINGLIIVWNVETKDCMERVKHEKGYAICGLAWHPTCGRISYTDAGNLGLL  
ENVCDPSGKTSSSKVSSRVEKDYNLDFGDDMSNAGDFLNDNAVEIPSFSKGIINDEDD  
EDLMMASGRPRQRSHILEDDENSVDISMLKTGSSLLKEEEEDGQEGSIHNLPLVTSQRPF  
YDGPMPTPRQKPFQSGSTPLHLTHRFMVWNSIGIIRCYNDEQDNAIDVEFHDTSIHHATH  
LSNTLNYTIADLSHEAILLACESTDELASKLHCLHFSSWDSSKEWIIDLPQNEDIEAICL  
GGQWAAAATSALLRLFTIGGVQKEVFSLAGPVVSMAGHGEQLFIVYHRGTGFDGDQCLG  
VQLELGKKKKQILHGDPLPLTRKSYLAWIGFSAEGTPCYVDSEGIVRMLNRGLGNTWTP  
ICNTREHCKGKSDHYWVVGIHENPQQLRCIPCKGSRFPPTLPRPAVAILSFKLPYQCIAT  
EKGQMEEQFWRSVIFHNHLDYLAKNGYEYEESTKNQATKEQQELLMKMLALSCKLEREFR  
CVELADLMTQNAVNLAIKYASRSRKLILAQKLSLAVEKAAELTATQVEEEEEEDFRKK  
LNAGYSNTATEWSQPRFRNQVEEDAEDSGEADDEEKPEIHKPGQNSFSKSTNSSDVSAS  
GAVTFSSQGRVNPFKVSASSKEPAMNSARSTNILDNMGKSSKKSTALSRTTNNEKSPI  
IKPLIPKPKPKQASAASYFQKRNSQTNKTEEVKEENLKNVLSETPAICPPQNTENQRPKT  
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KKRKRVDDESDETENQEEKAKENLNLSSKKQKPLDFSTNQKLSAFAFKQE

>sp|Q8TCV5|WFDC5\_HUMAN WAP four-disulfide core domain protein 5 OS=Homo sapiens GN=WFDC5  
PE=2 SV=1

MRTQSLLLLGALLAVGSQLPAVFGRRKKGKSGGCPPDDGPCLLSVPDQCVEDSQCPLTRK  
CCYRACFRQCVPVRSVKLGSCPEDQLRCLSPMNLCHKSDSCSGKKRCCHSACGRDCRDP  
ARGTAPGCPGQANSDLGSVALHLSWGPTERVHDGRPGALPAGQHLYQRWFQPSDNHWA  
DTSLQPIHPWFLLLGVKVHLSSEEGLCITPVLCTTAIRASHPS

>sp|Q1A5X7|WHAL1\_HUMAN Putative WASP homolog-associated protein with actin, membranes and  
microtubules-like protein 1 OS=Homo sapiens GN=WHAMMP3 PE=5 SV=1

MMILVFWSNYPYEPVCLASHRNMEASVPKYKKHLPQLGMQKEMEVDVRFQGAAWATAI  
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LELYEVKFEILKNKEILLTTQLDSLRLIKDEI

>sp|076076|WISP2\_HUMAN WNT1-inducible-signaling pathway protein 2 OS=Homo sapiens  
GN=WISP2 PE=1 SV=1

MRGTPKTHLLAFSLCLLSKVRTLQCPCTCPWPPRCPLGVPLVLDGCGCCRCVARRL  
GEPDQLHVCDASQLVCQPGAGPGGRGALCLAEDDSSCEVNGRLYREGETFQPHCSIR  
CRCEDGGFTCVPLCSEDVRLPSWDCPHPRRVEVLGKCCPEWVCGGGGLGTQPLPAQGPQ  
FSGLVSSLPPGVPCPEWSTAWGPCSTTCGLMATRVSNQNRFCRLETQRRCLSRPCPPS  
RGRSPQNSAF

>sp|095785|WIZ\_HUMAN Protein Wiz OS=Homo sapiens GN=WIZ PE=1 SV=2  
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LDGRGGISGTPDGRGPWEHPLVQEAGEGILSERRFEDSVIVRTMKPHAELEGSRRFLHHR  
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LDMAVVGREDLEDLEGLAQSEWGLPTSASEVATQTWTVNSEASVERLQPLLPIRTGP  
YLCELLEEVAEGVASPDEDEDEEPAVFPCIECSIYFKQKEHLLHMSQHRRAPGQEPPAD  
LAPLACGECGWAFADPTALEQHRQLHQASREKIEEIQKLKQVPGDEGREARLQCPKCVF  
GTNSSRAYVQHAKLHMREPPGQTTKEPFGGSSGAGSPSEASALLYQPYGAAGLSACVF  
CGFPAPSESLREHVRLVHAHPHWEEDGEAYEEDPASQPGTSQDAHACFPDPAVDYFGKA  
EPSLAPMWRENPAGYDPSLAFGPGCQQLSIRDFPLSKPLLHGTGQRPLGRLAFPSTLAST  
PYSLQLGRNKSTVHPQGLGERRRPWSEEEEEEEEEEDVLTSEMDFSPENGVSPLATPS  
LIPQAALELKQAFREALQAVEATQGQQQLRGMVPIVLVAKLGPQVMAAARVPPRLQPEE  
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RGHLNRVGVSYNVRHFI SAEEVKAIERRFSFQKKKKKVANFDPGTFSLMRCDFCGAGFDT  
RAGLSSHARAHLRDFGITNWELTVSPINILQELLATSAAEQPPSPLGREPGGPPGSFLTS  
RRPRLPLTVFPPTWAEDPGPAYGDAQSLTTCCEVCACFETRKLSSHARSHLRQLGVAE  
SESSGAPIDLLYELVKQKGLPDAHLGLPPGLAKKSSSLKEVVAGAPRPGLLSLAKPLDAP  
AVNKAIKSPPGFSAKGLGHPPSSPLLKKTPLALAGSPTPKNPEDKSPQLSLSPRPASPKA  
QWPQSEDEGPLNLTSGPEPARDIRCEFCGEFFENRKGLSSHARSHLRQMGVTEWYVNGSP  
IDTLREILKRRTQSRPGPPNPPGSPKALAKMMGGAGPGSSLEARSPDLHISPLAKKL  
PPPPGSPLGHSPPTASPPPTARKMFPGLAAPSLPKKLKPEQIRVEIKREMLPGALHGELHP  
SEGPWGAPREDMTPLNLSSRAEPVRDIRCEFCGEFFENRKGLSSHARSHLRQMGVTEWSV  
NGSPIDTLREILKKSKPCLIKKEPPAGDLAPALAEDGPPTVAPGPVQSPLPLSPLAGRP  
GKPGAGPAQVPRELSLTPITGAKPSATGYLGSVAAKRPLQEDRLPAEVKAKTYIQTELP  
FKAKTLHEKTSHSSTEACCELCGLYFENRKALASHARAHLRQFGVTEWCVNGSPIETLSE  
WIKHRPQKVGAYRSYIQGGRPFTKKFRSAGHGRDSDKRPSLGLAPGGLAVVGRSAGGEPG  
PEAGRAADGGERPLAASPPGTVKAEEHQQRNINKFERRQARPPDASAARGGEDTNDLQKQ  
LEEVRQPPPRVRPVPVSLVPRPPQTSLVKFGVNIYTLKCRFCEVEFQGPLSIQEEWVRHLQ  
RHILEMNFASKADPPPEESQAPQAQTA AA EAP

>sp|Q96J92|WNK4\_HUMAN Serine/threonine-protein kinase WNK4 OS=Homo sapiens GN=WNK4 PE=1  
SV=1

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DSARPELPDSAVGPGSREPLRVPEAVALERRREQEEKEDMETQAVATSPDGRYLKFDIEI  
GRGSFKTVYRGLD TDTTVEVAWC ELQTRKLSRAERQRFSEEVEM LKGLQHPNIVRFYDSW  
KSVLRGQVCIVLVT ELMTSGTLKTYLRRFREM KPRVLQRWSRQILRGLHFLHSRVPPILH  
RDLKCDNVFITGPTGSVKIGDLGLATLKRA SFAKSVIGTPEFMAPEMYEEKYDEAVDVYA  
FGMCMLEMATSEYPYSECQNAAQIYRKVTSGRKPNSFHKVKIPEVKEIEGCI RTDKNER  
FTIQDLLAHAF FREERG VHVLA EEDDGEKPGLKLWLRMEDARRGGRPRDNQAIEFLFQL  
GRDAAEEVAQEMVALGLVCEADYQPVARAVRERVA AIQRKREKL RKARELEALPPEPGPP  
PATVPMAPGPPSVFPPEPEEPEADQHQPFLFRHASYSSTSDCETDGYLSSSGFLDASDP  
ALQPPGGVPSSLAESHLCLPSAFALSIPRSGPGSDFSPGDSYASDAASGLSDVGE GGMQM  
RRPPGRNLRRRPRSR LRVTSVSDQNDRVVE CQLQTHNSKMVTFRFDLDGDSPEEIAAAMV  
YNEFILPSERDGLRRRIREI IQRVETLLKRD TGPMEAAEDTLSPQEEPAPLPALPVPLPD  
PSNEELQSSTSLEHRSWTA FSTSSSSPGTPLSPGNPFSPGTPI SPGPIFPITSPCHPSP  
SPFSPISSQVSSNPSPHPTSSPLPFSSSTPEFPVPLSQCPWSSLPTTSPPTFSPTCSQVT

LSSPFFPPCPSTSSFPSTTAAPLLSLASAFSLAVMTVAQSLLSPSPGLLSQSPPAPPSPL  
PSLPLPPPVPAGGQESPSPTAEVESEASPPPARPLPGEARLAPISEEGKPLVGRFQVT  
SSKEPAEPLPLQPTSPTLSGSPKSTPQLTSESSDTEDSAGGGPETREALAESDRAAEG  
GAGVEEEDDGGKEPQVGGSPQPLSHPSPVWMNYSYSSCLSSSEESSGEDEEFWAEQS  
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>sp|Q9UBV4|WNT16\_HUMAN Protein Wnt-16 OS=Homo sapiens GN=WNT16 PE=2 SV=1

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KRKPYLLPSIREGARLGIQECGSQFRHERWNCMITAAATTAPMGASPLFGYELSSGTKET  
AFIYAVMAAGLVHSVTRSCSAGNMTECSCDTTLQNGGSASEGWHWGGCSDDVQYGMWFSR  
KFLDFPIGNTTGKENVLLAMNLHNNEAGRQAVAKLMSVDCRCHGVSGSCAVKTCWKTMS  
SFEKIGHLLKDKYENSIQISDKTRKMRRREKDKRKIP IHKDDLLYVNKSPNYCVEDKKL  
GIPGTQGRECNRTSEGADGCNLLCCGRGYNTHVVRHVERCECKFIWCCYVRCRRCESMTD  
VHTCK

>sp|Q14191|WRN\_HUMAN Werner syndrome ATP-dependent helicase OS=Homo sapiens GN=WRN PE=1  
SV=2

MSEKKLETTAQQRKCPWMMNVQNKRCAVEERKACVRKSVFEDDLPFLEFTGSIVYSYDAS  
DCSFLSEDISMSLSDGDVVGFDMEWPPLYNRGKLGKVALIQLCVSESKCYLFHVSSMSVF  
PQGLKMLENKAVKAGVGIEGDQWKLLRDFDIKLNKFVELTDVANKKLKCTETWSLNSL  
VKHLLGKQLLKDKSIRCSNWSKFPLTEDQKLYAATDAYAGFI IYRNLEILDDTVQRFAIN  
KEEEILLSDMNKQLTSISEEVDLAKHLPHAFSKLENPRRVSILLKDI SENLYSLRRMI I  
GSTNIETELRPSNNLNLSSFEDSTGGVQQKQIREHEVL IHVEDETWDPTLDHLAKHDGE  
DVLGNKVERKEDGFEDGVEDNKLKENMERACLMSLDITEHELQILEQQSQEEYLSDIAYK  
STEHLSPNDNENDTSYVIESDEDELEMEMLKHLSPNDNENDTSYVIESDEDELEMEMLKSLE  
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KMYFGHSSFKPVQWKVIHVSLEERRDNVAVMATGYGKSLCFQYPPVYVGKIGLVISPLIS  
LMEDQVLQLKMSNIPACFLGSAQSENVLTDIKLGKYRIVYVTPEYCSGNMGLLQQLLEADI  
GITLIAVDEAHCISEWGHDFRDSFRKLGLSLKTALPMVPIVALTATASSSIREDIVRCLNL  
RNPQITCTGFDRPNLYLEVRRKTGNILQDLQPFVKTSSHWEFEGPTI IYCPSRKMTQQV  
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APKDMESYYQEIAGRAGDGLQSSCHVLWAPADINLNRHLLTEIRNEKFRLYKLMMAKME  
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QLITEGFLVEVSRYNKFMIKICALTKKGRNWLHKANTESQSLILQANEELCPKLLLPSSK  
TVSSGTKEHCYNQVPVELSTEKKSNEKLYSYKPCDKISSGSNISKKSIMVQSPEKAYSS  
SQPVISAQEQTQIVLYGKLVEARQKHANKMDVPPAILATNKILVDMAKMRPTTENVKR  
IDGVSEGAAMLAPLLEVIKHFCQTNVQTDLFSSTKPQEEQKTSLVAKNKICTLSQSMA  
ITYSLFQEKKMPLKSIAESRILPLMTIGMHLSQAVKAGCPLDLERAGLTPEVQKIIADVI  
RNPPVNSDMKISLIRMLVPENIDTYLIHMAIEILKHGPDGLQPSCDVNKRRCFPGSEE  
ICSSSKRSKEEVGINTETSSAERKRRLPVWFAKGSDTSKKLMDKTKRGGLFS

>sp|A6NIX2|WTIP\_HUMAN Wilms tumor protein 1-interacting protein OS=Homo sapiens GN=WTIP  
PE=1 SV=3

MQRSRAGADEAALLLAGLALRELEPGCGSPGRGRGPRPGPGDEAAPALGRRGKGGGPE  
AGADGLSRGERGPRRAAVPELSAQPAGSPRASLAGSDGGGGGGSARSSGISLGYDQRHGS

PRSGRSDPRPGPPSVGSARSSVSSLGSRGSAGAYADFLPPGACPAPARSPEPAGPAPF  
PLPALPLPPGREGGPSAAERRLEALTRELERALEARTARDYFGICIKCGLGIYGAQQACQ  
AMGSLYHTDCFTCDSCGRRLRGKAFYNVGEKVYCQEDFLYSGFQQTADKCSVCGHLIMEM  
ILQALGKSYHPGCFRCSVCNECLDGVPFVTDVENNIYCVRDYHTVFAPKCASCARPILPA  
QGCETTIRVVSMRDYHVACYHCEDCGLQLSGEGRRCYPLAGHLLCRRCHLRLQLPGPL  
PSPTVHVTEL

>sp|Q9GZV5|WWTR1\_HUMAN WW domain-containing transcription regulator protein 1 OS=Homo sapiens GN=WWTR1 PE=1 SV=1

MNPASAPPPLPPPGQVIHVTQDLDTDLEALFNSVMNPKPSSWRKKILPESFFKEPDSSGS  
HSRQSSTDSSGGHPGPRLAGGAQHVRSHSSPASLQLGTGAGAAGSPAQQHAHLRQQSYDV  
TDELPLPPGWEMTFTATGQRYFLNHIEKITTWQDPRKAMNQPLNHMNLHPAVSSTPVPQR  
SMAVSQPNLVMNHQHQQQMAPSTLSQQNHPTQNPPAGLMSMPNALTTQQQQQKLRLQRI  
QMERERIRMRQEELMRQEAALCRQLPMEAETLAPVQA AVNPPTMTPDMSITNNSDPFL  
NGGPYHSREQSTD SGLGLGCYSVPTTPEDFLSNVDEMDTGENAGQTPMNINPQQTRFPDF  
LDCLPGTNVDLGTLESEDLIPLFNDVESALNKSEPFLTWL

>sp|Q8WWM1|XAGE5\_HUMAN X antigen family member 5 OS=Homo sapiens GN=XAGE5 PE=3 SV=1  
MSWRGRRYRPRRCLRLAQLVGPMLEPSVPEPQQEPPTESQDHTPGQKREDDQGAAEIQV  
PNLEADLQELSQSKTGDECGSDPDVQGKILPKSEQFKMPEGGEGKPKL

>sp|P47992|XCL1\_HUMAN Lymphotactin OS=Homo sapiens GN=XCL1 PE=1 SV=1  
MRLLILALLGICSLTAYIVEGVGSEVSDKRTCVSLLTQRLPVSRIKTYTITEGSLRAVIF  
ITKRGLKVCADPQATVWRDVVRSMDRKSNTNRNMIQTKPTGTQQSTNTAVTLTG

>sp|P47989|XDH\_HUMAN Xanthine dehydrogenase/oxidase OS=Homo sapiens GN=XDH PE=1 SV=4  
MTADKL VFFVNGRKVVEKNADPETLLAYLRRKLGLSGTKLGC GEGGCGACTVMLS KYDR  
LQNKIVHFSANACLAPICSLHHVAVTTVEGIGSTKTRLHPVQERIAKSHGSQCGFCTPGI  
VMSMYTLRLNQPEPTMEEIENAFQGNLCRCTGYRPI LQGFRTFARDGGCCGGDGNPNCC  
MNQKDHVSLSPSLFFKPEEFTPLDPTQEP IFPPELLRLKDTPRKQLRFEGERV TWIQAS  
TLKELDLKAQHPDAKL VVGNT EIGIEMKFKNMLFPMIVCPAWIPELNSVEHGPDGISFG  
AACPLSIVEKTLVDAVAKLPAQKTEVFRGVLEQLRWFAGKQVKSVASVGNNIITASPISD  
LNPVFMASGAKLTLVSRGTRRTVQMDHTFFPGYRKTLSP EILL SIEIPYSREGEYFSA  
FKQASRREDDIAKVTSGMRVLFKPGTTEVQELALCYGGMANRTISALKTTQRQLSKLWKE  
ELLQDVCAGLA EELHLPDAPGGMVDFRCTLTLSFFFKFYLTVLQKLQENLEDKCGKLD  
PTFASATLLFQKDPADVQLFQEVPGQSEEDMVGRPLPHLAADMQASGEAVYCDDIPRY  
ENELSLRLVTSTRAHAKIKSIDTSEAKKVPGFVCFISADDVPGSNITGICNDET VFAKDK  
VTCVGHIIGAVVADTPEHTQRAAQGVKITYEELPAIITIEDAIKNSFYGP ELKIEKDL  
KKGFSEADNVVS GEIYIGGQEHFYLETHCTIAVPKGEAGEMELFVSTQNTMKTQS FVAKM  
LGVPANRIVVRVKRMGGGFGGKETRSTVVSTAVALAAYKTGRPVRCMLDRDEDMLITGGR  
HPFLARYKVGFMKTGTVVALEVDFHFSNVGNTQDLSQS IMERALFHMDNCYKIPNIRGTGR  
LCKTNLPSNTAFRGFGGPQGM LIAECWMSEVAVTCMPAEVRRKNLYKEGDLTHFNQKL  
EGFTLPRCWEELCLASSQYHARKSEVDKFNKENCWKRG LCI IPTKFGISFTVPFLNQAGA  
LLHVYTDGSVLLTHGGTEMGQLHTKMVQVASRALKIPTSKIYISETSTNTVPNTSPTAA  
SVSADLNGQAVYAACQTI LKRLEPYKKKNPSGSWEDWVTAAYMDTVSLSATGFYRTPNLG  
YSFETNSGNPFHYFSYGACSEVEIDCLTGDHKNLRTDI VMDVGSSLNPAIDIGQVEGAF  
VQGLGLFTLEELHYSPEGSLHTRGPSTYKIPAFGSIPIEFVSLLRDCPNKKA IYASKAV  
GEPPLFLAASIFFAIKDAIRAARAQHTGNNVKELFRLDSPATPEKIRNACVDKFTTLCVT



GVPENCKPWSVRV

>sp|Q5GH70|XKR9\_HUMAN XK-related protein 9 OS=Homo sapiens GN=XKR9 PE=2 SV=1

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SWFKADLKKAGQESQHCFLLLHCLQGGVFTRYWFALKRGYHAAFKYDSNTSNFVEEQIDL  
HKEVIDRVTDLMLRLFETYLEGCPQLILQLYLLEHGQANFSQYAAIMVSCCAISWSTV  
DYQVALRKSLPDKLLNGLCPKITYLKYKFTLLSWMLSVVLLFLNVKIALFLLFLWL  
LGIIWAFKNNTQFCTCISMEFLYRIVVGFILIFTFFNIKQNTKCPMSCYYIVRVLGTG  
ILTVFWCPLTIFNPDYFIPISITIVLTLLGLFLIVYYGSFHPNRSATKCDEIDGKP  
VLRECRMRYFLME

>sp|A2RUG3|XKRY2\_HUMAN Testis-specific XK-related protein, Y-linked 2 OS=Homo sapiens  
GN=XKRY2 PE=2 SV=2

MFIFNSIADDIFPLISCVGAIHNCILAIRTGNDFAAIKLQVIKLIYLMIWHS�VIISPVV  
TLAFFPASLKQGS�HFLIIYFVLLTPWLEFSKSGTHLPSNTKNNSSMVGKYGCLS

>sp|P51811|XK\_HUMAN Membrane transport protein XK OS=Homo sapiens GN=XK PE=1 SV=5

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EVGQAEGLKITHRSFASRAVIQAFGLSAPQLTLQLYISVMQQDVTVGRSLLMTISLLSI  
VYGALRCNILAIIKYDEYEVKVKPLAYVCIFLWRSFEIATRVVVLVFTSVLKTWVVVI  
ILINFFSFFLYPWILFWCSGSPFENIEKALSRVGTIVLCFLTLLYTGINMFCWSAVQL  
KIDSPDLISKSHNWYQLLVYIMIRFIENAILLLLWYLFKTDIYMYVCAPLLVLQLLIGYC  
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>sp|Q96QU8|XP06\_HUMAN Exportin-6 OS=Homo sapiens GN=XP06 PE=1 SV=1

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DWPMFYHDFFTNILQLIQSPVTTPLGLIMLKTSEELACPREDLSVARKEELRKLLDQV  
QTVLGLLTGILETVWDKHSVTAATPPPSPTSGESGDLLSNLLQSPSSAKLLNQPIPILDV  
ESEYICSLALECLAHLFSWIPLSASITPSLLTTFHFARFGCDIRARKMASVNGSSQNCV  
SGQERGRGLVLA MSCINELMSKNCVPMFEFEYLLRMFQQTFYLLQKITKDNNHAHTVKSRL  
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WTLFLDYLT SKIKSR LGDEAVLNRYEDALVLLTEVLNRIQFRYNQAQLEELDDETLDD  
DQQT EWQRYLRQSLEVVAKVMELLPTHAFSTLFPVLQDNLEVYLGQQFIVTSGSGHRLN  
ITAENDCRR LHCSLRDLSSLLQAVGR LAEYF IGDFVFAARFNDALTVVERLVKVTLYGSQI  
KLYNIETAVPSVLKPDLDVHAQSLAALQAYSHWLAQYCEVHRQNTQQFVTLISTMDA  
ITPLISTKVQDKLLSACHLLVSLATTVRPVFLISIPAVQKVFNRTDASALRLVDKAQV  
LVCRA LSNILLPWP NLPENEQQWPVRS INHASLISALSRDYRNLPKSAVAPQRKMPLDD  
TKLIHQTL SVLEDIVENISGESTKSRIQYQSLQESVQVSLALFPAFIHQSDVTDEMLS  
FFLTFRGLRVQMGVPFTEQIIQTFLNMFTREQLAESILHEGSTGCRVVEKFLKILQVVV  
QEPGQVFKPFLPSIIALCMEQVYPIIAERPSPDVKAELFELLFRTLHHNWRYFFKSTVLA  
SVQRGIAEEQ MENEPQFSAIMQAFGQSFLQPD IHLFKQNLFYLETN TKQKLYHKKIFRT  
AMLFQFVNVLLQVLVHKSHDLLQEEIGIAIYNMASVDFDGFFAAFLPEFLTSCDGV DANQ  
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>sp|Q86Y38|XYLT1\_HUMAN Xylosyltransferase 1 OS=Homo sapiens GN=XYLT1 PE=1 SV=1

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PAPRRERRDLPAEPAAARGGGGGGGGGGRGPQARARGGGPGEPGQQPASRGALPARA  
LDPHPSPLITLETQDGYFSHRPKEKVRTDSNNNSVPKDFENVDNSNFAPRTQKQKHQPE  
LAKKPPSRQKELLKRKLEQQEKKGHTFPGKGPEVLPPGDRAAANSSHGKDVSRPPHAR  
KTGSSPETKYDQPPKCDISGKEAISALSRASKHCRQEIGETTCRHLGLLMPEKVTFR  
CPLEGKANKNVQWEDDSVEYMPANPVRIAFVLVVHGRASRLQRMFKAIYHKDHFYIYHV  
DKRSNYLHRQVLQVSRQYSNVRVTPWRMATIWGGASLLSTYLQSMRDLEMTDWPWDFFI  
NLSAADYPVRTNDQLVAFLSRYRDMNFKSHGRDNARFIRKQGLDRLFLECDAHMWRLGD  
RRIPEGIAVDGGSDWFLNRRFVEYVTFSTDDLVTMKQFYSTLLPAESFFHTVLENSP  
HCDTMVDNNLRITNWRNKLCKCKQYKHIVDWCGCSPNDFKQDFHRFQQTARPTFFARKF  
EAVVNQEIIIGQLDYYLYGNYPAGTPGLRSYWENVYDEPDGIHSLSDVTLTLYHSFARLGL  
RRAETSLHTDGENSCRYPMGHPASVHLYFLADRFQGFLIKHHATNLAVSKLETLETWVM  
PKKVFKIASPPSDFGRLQFSEVGTWDAKERLFRNFGGLGPMDEPVMQKWKGPVNTV  
TVIWDVPVNVIAATYDILIESTAEFTHYKPPLNPLRPGVWTVKILHHWVPVAETKFLVA  
PLTFSNRQPIKPEEALKLHNGPLRNAYMEQSFQSLNPVLSLPINPAQVEQARRNAASTGT  
ALEGWLDLSLVGGMTAMDICATGPTACPMQTCSQTAWSSFPDPKSELGAVKPDGRLR

>sp|P15313|VATB1\_HUMAN V-type proton ATPase subunit B, kidney isoform OS=Homo sapiens  
GN=ATP6V1B1 PE=1 SV=3

MAMEIDSRPGGLPGSSCNLGAAREHMQAVTRNYITHPRVTYRTVCSVNGPLVVLDRVKFA  
QYAEIVHFTLPDGTQRSGQVLEVAGTKAIVQVFEGTSGIDARKTTCEFTGDILRTPVSED  
MLGRVFNGSGKPIDKGPVMAEDFLDINGQPINPHSRIYPEEMIQTGISPIDVMNSIARG  
QKIPISAAAGLPHNEIAAQICRQAGLVKKSKAVALDYHDDNFAIVFAAMGVNMETARFFKS  
DFEQNGTMGNVCLFLNLANPTIERIITPRLALTTAEFLAYQCEKHVLVILTMSSYAEA  
LREVSAAAREEVPGRRGFPGYMYTDLATIIYERAGRVEGRGGSITQIPILTMPNDITHTIP  
DLTGFIPEGQIYVDRQLHNRQIYPPINVLPSSLRLMKSAGGEMTRKDHGDVSNQLYACY  
AIGKDVQAMKAVVGEEALTSDDLYLEFLQKFEKNFINQGPYENRSVFESLDLGWKLRLI  
FPKEMLKRIPQAVIDEFYSREGALQDLAPDTAL

>sp|O00534|VMA5A\_HUMAN von Willebrand factor A domain-containing protein 5A OS=Homo  
sapiens GN=VMA5A PE=2 SV=2

MVHFCGLLTLHREPVLKSISSVNIYEFVAGVSATLNYENEEKVPLEAFFVFPMDSDA  
VYSFEALVDGKKIVAELQDKMKARTNYEKAISQGHQAFLLEGDSSSRDVFSCNVGNLQPG  
SKAAVTLKYVQELPLEADGALRFVLPVAVLNPRYQFSGSSKDSCLNVKTPIVPVEDLPYTL  
SMVATIDSQHGIEKVQSNCPSPTEYLGEDKTSQVSLAAGHKFDRDVELLIYYNEVHTP  
SVVLEMGPMPNMPGHLMGDPSAMVSFYFNPEDQPSNTCGEFLMDRSGSMQSPMSSQD  
TSQLRIQAAKETLILLKSLPIGCFYNIYGFSSYEACFPESVKYTQQTMEEALGRVKLM  
QADLGTEILAPLQNIYRGPSIPGHPLQLFVFTDGEVTDTFSVIKEVRINRQKHRCFSFG  
IGEGTSTSLIKGIARASGGTSEFITGKDRMQSKALRTLKRSLQPVVEDVSLSWHLPPGLS  
AKMLSPEQTVIFRGRLISYAQLTGRMPAAETTGEVCLKYTLQGKTFEDKVTFPLQPKPD  
VNLTIIHRLAAKSLQTKDMGLRETPASDKKDALNLSLESGVISSFTAFIAINKELNKPVQ  
GPLAHRDVPRPILLGASAPLKIKCQSGFRKALHSDRPPSASQPRGELMCYKAKTFQMDDY  
SLCGLISHKDQHSFGFGENHLVQLIYHQNANGSWDLNEDLAKILGMSLEEIMAAQPAELV  
DSSGWATILAVIWLHSNGKDLKCEWELLERKAVAWMRAHAGSTMPSVVKAATFLKSSVD  
PAIFAF

>sp|Q2NL98|VMAC\_HUMAN Vimentin-type intermediate filament-associated coiled-coil protein  
OS=Homo sapiens GN=VMAC PE=2 SV=1

MSAPPALQIREANAHLAAVHRRAAELEARLDAAERTVHAQAERLALHDQQLRAALDELGR  
AKDREIATLQEQLMTSEATVHSLQATVHQRDELIRQLQPRAELLQDICRRRPPLAGLLDA  
LAEAERLGPLPASDPGHPGPPGPGPLDNSTGEEADRHLQPAVFGTTV

>sp|Q05940|VMAT2\_HUMAN Synaptic vesicular amine transporter OS=Homo sapiens GN=SLC18A2  
PE=1 SV=2

MALSELALVRWLQESRRSRKLILFIVFLALLDNMLLTVVVPIIPSYLYSIKHEKNATEI  
QTARPVHTASISDSFQSIFSYYDNSTMTVGNATRDLTTHQTATQHMVTNASAVPSDCPSE  
DKDLLNENVQVGLLFASKATVQLITNPFIGLLTNRIGYPIPIFAGFCIMFVSTIMFAFSS  
SYAFLLIARSLQGIGSSCSSVAGMGLASVYTDDEERGNVMGIALGGLAMGVLVGPPFGS  
VLYEFVGKTAPFLVLAALVLLDGATQLFVLQPSRVQPESQKGTPLTTLLKDPYILIAAGS  
ICFANMGIAMLEPALPIWMMETMCSRKWQLGVAFLPASISYLGITNIFGILAHKMGRWLC  
ALLGMIIVGVSILCIPFAKNIYGLIAPNFGVGFAIGMVDSSMMPIMGYLVDLRHVSVYGS  
VYAIADVAFCMGYAIGPSAGGAIKAIGFPWLMTIIGIIDILFAPLCFFLRSPPAKEEKM  
AILMDHNCPIKTKMYTQNNIQSYPIGEDEESES

>sp|Q7Z7G8|VP13B\_HUMAN Vacuolar protein sorting-associated protein 13B OS=Homo sapiens  
GN=VPS13B PE=1 SV=2

MLESYVTPILMSYVNRVIKLNKPSDLQLSLWGGDVVLSKLELKLVDLEQELKLPFTFLSG  
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KPRRMQQAAPTDPDLPPGYVQSLIRRVNINVIVINNLILKYVEDDIVLSVNITSAECYT  
VGELWDRAFMDISATDLVLRKVINFSDCTVCLDKRNASGKIEFYQDPLLYKCSFRTRLHF  
TYENLSKMPSVIKIHTLVESLKLSITDQQLPMFIRIMQLGIALYYGEIGNFKEGEIEDL  
TCHNKDMLGNITGSEDETRIDMQYPAQHKGQELYSQQDEEQPGWVSWAWSFVPAIVSYD  
DGEEDFVGNDPASTMHQQAQTLKDPIVSIGFYCTKATVTFKLTEMQVESSYSPQKVKS  
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ICGDNLSTKGFTYLTNSLFDYRSPENNGTRAEIFLDSTHHKETYTEIAGMQRFGAFYMDY  
LYTMENSTSGKGSTNQDFFSSGKSEDLGTVQEKSTKSLVIGPLDFRLDSSAVHRILKMIVC  
ALEHEYEPYSRLKSDIKDENETILNPEEVALLEEYIPTRHTSVTLLKCTCTISMAEFNLL  
DHLLPVIMGEKNSSNFMNTTNFQSLRPLPSIRILVDKINLEHSVPMYAEQLVHVSSLTQ  
PSDNLLHYCYVHCYLKIFGFQAGLTSLDCSGSYCLPVPVIPSFSTALYGKLLKLPTCWTK  
RSQIAITEGIFELPNLTIQATRAQTLLLQAIYQSWSHLGNVSSSAVIEALINEIFLSIGV  
KSKNPLPTLEGSIQNELKYCSTSLVKCASGTMGSIKICAKAPVDSGKEKLIPLLQGPSD  
TKDLHSTKWLNESRKPESELLAPDLMAFTIQVPQYIDYCHNSGAVLLCSIQGLAVNIDPIL  
YTWLIYQPQKRTSRHMQQQPVVAVPLVMPVCRRKEDEVSIGSAPLAKQQSYQASEYASSP  
VKTKTVTESRPLSVPVKAMLNISESCRSPEERMKEFIGIVWNAVKHLTLQLEVQSCCVFI  
PNDSLPSPTIVSGDIPGTVRSWYHGQTSMPGTLVLCLPQIKIISAGHKYMEPLQEIPFV  
IPRPILEEGDAFPWTISLHNFSIYTLLGKQVTLCLEPMGCTSTLAVTSQKLLATGPDTR  
HSFVVLCHVDLESLEIKCSNPQVQLFYELTDIMNKVWNKIQKRGNLNLSPTSPETMAGPV  
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RVSLWMQWVLPKITIKLFAPDPENKGTEVCMVSELEDLSASIDVQDVYTKVKCKIESFNI  
DHYRSSLGEECSLGCQGGVFLSCTDKLNRRTLLVRPISKQDPFSNCSGFFPSTTTKLLD  
GTHQQHGFLSLTYTKAVTKNVRHKLTSRNERRSFHKLSEGLMDGSPHFLHEILLSAQAFD  
IVLYFPLLNAIASIFQAKLPKTQKEKRKSPGQPMRTHLTLSRNLPLIYVNTSVIRIFIPK  
TEEMQPTVEANQAAKEDTVVLKIGSVAMAPQADNPLGRSVLRKDIYQRALNLGILRDPGS  
EIEDRQYQIDLQSNIGTAQWHQLKPEKESVSGGVVTETERNSQNPALAWNMASSIRRHQ

ERRAILTPVLTDFSVRITGAPAVIFTKVSPENLHTEEILVCGHSLEVNITTNLDFFLSV  
AQVQLLHQLIVANMTGLEPSNKA AEISKQEKKVDIFDGGMAETSSRYSGAQDSGIGSDS  
VKIRIVQIEQHSGASQHRIARPSRQSSIVKNLNFIPFDIFITASRISLMTYSCMALSKSK  
SQEQKNNEKTDKSSLNLPEVSDVAKPNQACISTVTAEDLLRSSISFSPSGKKIGVLSLES  
LHASTRSSARQALGITIVRQPGRRGTDGLQLEPFLYFIVSQPSLLSCHHRKQRVEVSIF  
DAVLKGVASDYKCIDPGKTLPEALDYCTVWLQTVPGEIDSKSGIPPSFITLQIKDFLNGP  
ADVNLDISKPLKANLSFTKLDQINLFLKKIKNAHSLAHSEETSAMSNTMVNKDDLVPVSKY  
YRGKLSKPKIHGDGVQKISAQENMWRAVSCFQKISVQTTQIVISMETVPHTSKPCLLASL  
SNLNGSLSVKATQKVPGIILGSSFLLSINDFLLKTSLKERSRILIGPCCATANLEAKWCK  
HSGNPGPEQSIPKISIDLRGGLLQVFWGQEHLNCLVLLHELLNGYLNEEGNFEVQVSEPV  
PQMSSPVEKNQTFKSEQSSDDLRTGLFQYVQDAESLKLPGVYEVLFYNETEDCPGMMLWR  
YPEPRVLTIVRITPVFNTTEDPDISTADLGDVLQVPCSLEYWDELQKVFAFREFNLSE  
SKVCELQLPDINLVNDQKKLVSSDLWRIVLNSSQNGADDQSSASESGSQSTCDPLVTPTA  
LAACTRVDSCTFPWFVPSLCVSFQFAHLEFHLCHHLDQLGTAAPQYLQPFVSDRNMPSSEL  
EYMIVSFREPHMYLRQWNGSVCQEIQFLAQADCKLLECRNVTMQSVVKPFSIFGQMAVS  
SDVVEKLLDCTVIVDSVFNLGQHVVHSLNTAIQAWQQNKCEVEELVFSHFVICNDTQE  
TLRFGQVDTDENILLASLHSHQYSWRSHKSPQLLHICIEGWGNWRWSEPFSDHAGTFIR  
TIQYRGRTASLI IKVQQLNGVQKQIIICGRQIIICSYLSQSIELKVVQHYIGDQGQAVVRE  
HFDCLTAKQKLPSYILENNELTELCVKAKGDEDWSRDVCLESKAPEYSIVIQVPSSNSSI  
IYVWCTVLTLEPNSQVQRMIVFSPLFIMRSHLPDPIIIHLEKRSGLSETQIIPGKGQE  
KPLQNI EPDLVHHLTFQAREEYDPSDCAVPISTSLIKQIATKVHPGGTVNQILDEFYGP  
KSLQPIWPYNKKSDRNEQLSQWDSMPMRVKLSIWKPYYRTLLIELLPWALLINESKDWLW  
LFEGEKIVLQVPAGKIIIPPNFQEAFIGIYIY WANTNTVHKSVAIKLVHNLTS PKWKDGGN  
GEVVTLD EEA FVDTEIRLGAFPGHQKLCQFCISSMVQQGIQIIQIEDKTTIINNTPYQIF  
YKPQLSVCNPHSGKEYFRVPDSATFSICPGGEQPAMKSSSLPCWDLMPDISQSVLDASLL  
QKQIMLGFSPAPGADSSQCWSLPAIVRPEFPRQSVAVPLGNFRENGFCTRAIVLTYQEHL  
GVTYLTLS EDPSPRVI IHNRCPVKMLIKENIKDIPKFEVYCKKIPSECSIHHELYHQISS  
YPDCKTKDLLPSLLL RVEPLDEVTT EWSDAIDINSQGTQVVFLTGFYVYVDVVHQC GTV  
FITVAPEGKAGPILTNTRAPEKIVTFKMFITQLSLAVFDDLTHHKASAELLRLTLDNIF  
LCVAPGAGPLPGEEPVAALFELYCVEICCGDLQLDNQLYNKSNFHFVAVLVCQGEKA EPIQ  
CSKMQSLLISNKELEEYKEKCFIKLCITLNEGKSILCDINEFSFELKPARLYVEDTFVYY  
IKTLDFTYLPNSRLAGHSTHLSGGKQVLPMQVTQHARALVNPVKLRKLVIQPVNLLVSIH  
ASLKLYIASDHTPLSFSVFERGPIFTTARQLVHALAMHYAAGALFRAGWVVGSLDILGSP  
ASLVRSIGNGVADFFRLPYEGLTRGPGAFVSGVSRGTTSFVKHISKGLTSITNLATSLA  
RNMDRLSLDEEHYNRQEWRRLPESLGEGLRQGLSRLGISLLGAIAGIVDQPMQNFQKT  
SEAQASAGHKAGVISGVGKIMGVFTKPIGAAELVSQTGYGILHGAGLSQLPKQRHQ  
SDLHADQAPNSHVKYVWKMLQSLGRPEVHMA LDVVLRVSGSGEHEGCLLLTSEVLFVVS  
SEDTQQQAFPVTEIDCAQDSKQNNLLTVQLKQPRVACDVEVDGVRERLSEQQYNRLVDYI  
TKTSCHLAPSCSSMQIPCPVVA AEPP PSTVKTYHYLVDPHFAQVFLSKFTMVKNKALRKG  
FP

>sp|P63122|VPK8\_HUMAN Endogenous retrovirus group K member 8 Pro protein OS=Homo sapiens  
GN=ERVK-8 PE=3 SV=1

WASQVSENRPVCKAI IQGKQFEGLVDTGADVSI IALNQWPKNWPQKAVIGLVGIGTASE  
VYQSM EILHCLGPDNQESTVQPMITS IPLNLWGRDLLQQWGAEITMPAPLYSPTSQKIMT

KRGYIPGKGLGKNEDGIKIPFEAKINQKREGIGYPF

>sp|Q9Y487|VPP2\_HUMAN V-type proton ATPase 116 kDa subunit a isoform 2 OS=Homo sapiens  
GN=ATP6VOA2 PE=1 SV=2

MGSLFRSETMCLAQLFLQSGTAYECLSALGEKGLVQFRDLNQNVSSFQRKFVGEVKRCEE  
LERILVYLVEINRADIPLPEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRK  
NLLELIEYTHMLRVTKTFVKRNVEFEPTYEEFPSLESDSLDDYSCMQRLGAKLGFVSGLI  
NQGKVEAFEKMLWRVCKGYTIVSYAELDESLEDPETGEVIKWWVFLISFWGEQIGHKVKK  
ICDCYHCHVYPYPNTAEERREIQEGLNTRIQLDLYTVLHKTEDYLRQVLCKAAESVYSRVI  
QVKMKMAIYHMLNMCSDVTNKCILAEVWCPEADLQDLRRALEEGSRESGATIPSMNII  
PTKETPPTRIRTNKFTTEGFQNIVDAYGVGSYREVPALFTIITFPFLFAVMFGDFGHGFV  
MFLFALLLVLENHPRLNQSQEIMRMFFNGRYILLMGLFSVYTGLIYNDCFSKSVNLFG  
SGWNVSAMYSSSHPPAEHKKMVLWNDSVVRHNSILQLDPSIPGVFRGPYPLGIDPIWNLA  
TNRLTFLNSFKMKMSVILGIIHMTFGVILGIFNHLHFRKKFNIYLVSIPELLFMLCIFGY  
LIFMIFYKWLVSFAETSRVAPSILIEFINMFLFPASKTSGLYTGQEYVQRVLLVVTALSV  
PVLFLGKPLFLLWLHNGRSCFGVNRSGYTLIRKDSEEEVSLLSQDIEEGNHQVEDGCRE  
MACEEFNFGEILMTQVIHSIEYCLGCISNTASYLRWLWALSLAHAQLSDVLWAMLMRVGLR  
VDTTYGVLLLLPVIALFAVLTIFILLIMEGLSAFLHAIRLHWVEFQNKFYVGAGTKFVPF  
SFSLLSSKFNNDDSA

>sp|P12018|VPREB\_HUMAN Immunoglobulin iota chain OS=Homo sapiens GN=VPREB1 PE=1 SV=2

MSWAPVLLMLFVYCTGCGPQPVHLHQPPAMSSALGTTIRLTCTLRNDHDIGVYSVYWYQQR  
PGHPPRFLLRYFSQSDKSQGPVPPRFSGSKDVARNRGYLSISELQPEDEAMYCAMGAR  
SSEKEEREREWEEMEPTAARTRVP

>sp|Q8IV63|VRK3\_HUMAN Inactive serine/threonine-protein kinase VRK3 OS=Homo sapiens  
GN=VRK3 PE=1 SV=2

MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVSSFQGSKRGLNSSFETSP  
KKVKSSTVTSPRLSLFSDGDSSESEDTLSSSERSKSGSRPPTPKSSPQKTRKSPQVTR  
GSPQKTS CSPQKTRQSPQTLKRSRVTTSLALPTGTVLTDKSGRQWKLSFQTRDNQGIL  
YEAAPTSTLTCDSGPQKQKFSKLDAKDGRLFNEQNFFQRAAKPLQVNWKKLYSTPLLA  
IPTCMGFGVHQDKYRFLVPLSLGRSLQSALDVSPKHVLSERSVLQVACRLLDALEFLHEN  
EYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMD  
LHKGCGPSRRSDLQSLGYCMLKWLYGFLPWTNCLPNTEDIMKQKQKFVDKPGPFVGPCGH  
WIRPSETLQKYLKVMALTYEEKPPYAMLRNNLEALLQDLRVSPYDPIGLPMVP

>sp|Q8NOZ9|VSI10\_HUMAN V-set and immunoglobulin domain-containing protein 10 OS=Homo  
sapiens GN=VSIG10 PE=2 SV=1

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SEPVFLLSSNSSLRPAEPRFSLVDATSLHIESLSLGDEGIYTCQEILNVTQWFQVWLQVA  
SGPYQIEVHIVATGTLPNGTLYAARGSQVDFSCNSSSRPPPVVEWWFQALNSSSESFGHN  
LTVNFFSLLLISP NLQGNYTCLALNQLSKRHRKVTTPELLVYPPPSAPQCWAQMASGSFM  
LQLTCRWDGGYPDPDFLWIEEPGGVIVGKSKLGVEMLSQSLSGKKFKCVTSHIVGPES  
GASCMVQIRGPSLLSEPMKTCFTGGNVT LTCQVSGAYPPAKILWLRNLTQPEV I IQPSSR  
HLITQDGQNSTLTIHNCSDLDEGYICRADSPVGVREMEIWL SVKEPLNIGGIVGTIVS  
LLLLGLAII SGLLLHYPVFCWKVGNTSRGQNMDDVMVLVDSEEEEEEEEEEEEDAAVGE  
QEGAREEREELPKEIPKQDHIHRVTALVNGNIEQMGNFQDLQDDSSSEEQSDIVQEEDRPV

>sp|Q5VU13|VSIG8\_HUMAN V-set and immunoglobulin domain-containing protein 8 OS=Homo sapiens GN=VSIG8 PE=2 SV=1

MRVGGAFFHLLLVCLSPALLSAVRINGDGGQEVLYLAEGDNVRLGCPYVLDPEDYGPNGLDI  
EWMQVNSDPAHHRENVFLSYQDKRINHGSPLHLQQRVRF AASDPSQYDASINLMNLQVSD  
TATYECRVKKTMTATRKVIVTVQARPAVPMCWTEGHMTYGNDVVLKCYASGGSQPLSYKW  
AKISGHHYPYRAGSYTSQHSYHSELSYQESFHSSINQGLNNGDLVLKDISRADDGLYQCT  
VANNVGYSVCVVEVKVSDSRRIGVIGIVLGSLLALGCLAVGIWGLVCCCCGGSGAGGAR  
GAFGYGNGGGVGGGACDGLASEIREDAVAPGCKASGRGSRVTHLLGYPTQNVSRSLRRKY  
APPPCGGPEDVALAPCTAAAACEAGSPVYVKVKAEPADCAEGPVQCKNGLLV

>sp|Q96N03|VTM2L\_HUMAN V-set and transmembrane domain-containing protein 2-like protein OS=Homo sapiens GN=VTM2L PE=1 SV=1

MGAPLAVALGALHYLALFLQLGGATRPAGHAPWDNHVSGHALFTETPHDMTARTGEDVEM  
ACSFRRSGSPSYSLEIQWWYVRSHRDWTDKQAWASNQLKASQQEDAGKEATKISVVKVVG  
SNISHKLRLSRVKPTDEGTYECRVIDFSDGKARHHKVKAYLRVQPGENSVLHLPEAPPAA  
PAPPPPKPGKELRKRSVDQEACSL

>sp|Q5TIE3|VW5B1\_HUMAN von Willebrand factor A domain-containing protein 5B1 OS=Homo sapiens GN=VWA5B1 PE=1 SV=2

MPGLLNWTGAALPLTASDVTSCVSGYALGLTASLTYGNEAQPFGQLFVYPLDECTTVI  
GFEAVIADRVVTVQIKDKAKLESGHFDASHVRSPTVTGNILQDGVSIAPHSCTPGKVTLD  
EDLERILFVANLGTIAPMENVTIFISTSSELPTLPSGAVRVLLPAVCAPTVPQFCTKSTG  
TSNQQAQGKDRHCFGAWAPGSWNKLCLATLLNTEVSNPMEYEFNFQLEIRGPCLLAGVES  
PTHEIRADAAPSARSAKSIIITLANKHTFDRPVEILIHPSSEPHMPHVLIEKGMTLGEFD  
QHLKGRTDFIKGMKKKSRAERKTEIIRKRLHKDIPHHSVIMLNFCPDLQSVQPCLRKAHG  
EFIFLIDRSSMSGISMHRVKDAMLVALKSLMPACLFNIIIGFGSTFKSLFPSSQTYSEDS  
LAMACDDIQRMKADMGGTNILSPLKWVIRQPVHRGHPRLLFVITDGAVNNTGKVLELVRN  
HAFSTRCSYFGIGPNVCHRLVKGLASVSEGS AELLMEGERLQPKMVKSLKKAMAPVLSDV  
TVEWIFPETTEVLVSPVSASSLFPGERLVGYGIVCDASLHISNPRSDKRRRYSMLHSQES  
GSSVFYHSQDDGPGLGEGDCAKNSGAPFILGQAKNARLASGDSTTKHDLNLSQRRRAYST  
NQITNHHKPLPRATMASDPMPAAKRYPLRKARLQDLTNQTSLDVQRWQIDLQPLLNSGQDL  
NQGPKLRGPGARRPSLLPQGCQPFPLPWGQETQAWSPVRERTSDSRSPGDLEPSHHPSAFE  
TETSSDWDPAPAESQERASPSRPATPAPVLGKALVKGLHDSQRLQWEVSFELGTPGPERGG  
AQDADLWSETFHHLAARAIIRDFEQLAEREGETEQGSNRRYQVSALHTSKACNIIISKYTA  
FVPVDVSKSRYLPTVVEYPNSAALRMLGSRALAQWRTSSGFGRPQTM LGEDSAPGNGK  
FQALNMEASPTALFSEARSPGREKHGASEGPQRSLATNTLSSMKASENLFGSWLNLNKS  
LLTRAAGFLSKPLIKAVESTSGNQSFYIPLVSLQLASGAFLLEAFCEATHIPMEK  
WTSPFTCHRVSLTTRPSESKTPSPQLCTSSPPRHPSCDFSFLEPLAKGKLGLEPRAVEH  
TGKLWATVVGLAWLEHSSASYFEWELVAAKANSWLEQQEVPEGRTQGTLKAAARQLFVL  
LRHWDENLEFNMLCYNPNYV

>sp|Q9Y334|VWA7\_HUMAN von Willebrand factor A domain-containing protein 7 OS=Homo sapiens GN=VWA7 PE=2 SV=4

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FLEQPPPGRPPLREDFLGRITLLADDLFAAYFGPGSSRRFRAALGEVSRANAAQDFLPTS  
RNDPDLHFDAERLGQGRARLVGALRETVVAARALDHTLARQRLGAALHALQDFYSHSNWV  
ELGEQQPHPHLLWPRQELQNLAQVADPTCSDCEELSCPRNWLGFLLTSGYFGTHPPKPP

GKCSHGHHFDRSSSQPPRGGINKDSTSPGFSPHHMLHLQAAKLALLASIQAFSLLRSRLG  
DRDFSRLLDITPASSLSFVLDTTGSMGEEINAAKIQARHLVEQRRGSPMEPVHYVLVPFH  
DPGFGPVFTTSDPDSFWQQLNEIHALGGGDEPEMCLSALQLALLHTPPLSDIFVFTDASP  
KDAFLTNQVESLTQERRCRVTLVLTEDTSRVQGRARREILSPLRFEPYKAVALASGGEVI  
FTKDQHIRDVAAIVGESMAALVTLPLDPPVVVPGQPLVFSVDGLLQKITVRIHGDISSFW  
IKNPAGVSQGGEEGGPLGHTRRFGQFWMVTMDPPQTGTWEIQVTAEDTPGVRVQAQTS  
LDLFLHFHGIPMEDGPHPLYPLTQPVAGLQTQLLVEVTGLGSANPGDPQPHFSHVILRG  
VPEGAELGQVPLEPVGPPERGLAASLSPTLLSTPRPFSLELIGQDAAGRRLHRAAPQPS  
TVVPVLLELSGSGFLAPGSKVPLSLRIASFSGPQDLRLTFVNPSFSLTSNLSRAHLEL  
NESAWGRLWLEVPDSPAAPDSVVMVTVTAGGREANVPPTHAFRLLLVSAPAPQDRHTTPT  
GSSDPILTATPAFSPFTLVTTQGRAGAGLAAGSPWWGTGCGVLLLLGLASW

>sp|Q96SY0|VWA9\_HUMAN von Willebrand factor A domain-containing protein 9 OS=Homo sapiens  
GN=VWA9 PE=1 SV=2

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ELMVPFTRDYNTLQEALSNMDDYDKTCLESALVGCNIVQQEWGAIPCVVLVTDGCLG  
IGRGSRLHSLATQNRSESNRFPLPFPFSPKLYIMCMANLEELQSTDSECLERLIDLNN  
GEGQIFTIDGPLCLKNVQSMFGKLIDLAYTPFHAVLKCGHLTADVQVFRPEPFVVDDEI  
DPIPKVINTDLEIVGFIDIADISSPPVLSRHLVLPIALNKEGDEVGTITDDNEDENSAN  
QIAGKIPNFCVLLHGSCLKVEGMVAIVQLGPEWHGMLYSQADSKKKSNNMMSLFEPGPEPL  
PWLGMMAQLGPISDAKENPYGEDDNKSPFPLQPKNKRSYAQNVTVWIKPSGLQTDVQKIL  
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>sp|P04275|VWF\_HUMAN von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4

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LAGGCQKRSFSIIIGDFQNGKRVLSVYLGEFFDIHLFVNGTVTQGDQRVSMFYASKGLYL  
ETEAGYYKLSGEAYGFVARIDGSGNFQVLLSDRYFNKTCGLCGNFNIFAEDDFMTQEGTL  
TSDPYDFANSWALSSGEQWCERASPPSSSCNISSGEMQKGLWEQCQLLKSTSVFARCHPL  
VDPEPFVALCEKTLCECAGGLECACPALLEYARTCAQEGMVLYGWTDHSAACSPVCPAGME  
YRQCVSPCARTCQSLHINEMCQERCVDGCSCPEGQLLDEGLCVESTECPCVHSGKRYPPG  
TSLRDCNTCICRNSQWICSNEECPEGCLVTGQSHFKSFDNRYFTFSGICQYLLARDCQD  
HSFSIVIVETVQCADDRDAVCTRSVTVRLPGLHNSLVKLKHGAGVAMDGDVQLPLLKGDL  
RIQHTVTASVRLSYGEDLQMDWDGRGRLLVKLSPVYAGKTCGLCGNYNGNQDDFLTPSG  
LAEPERVEDFGNAWKLHGDCQDLQKHSDPCALNPRMTRFSEEACAVLTSPTFEACHRAVS  
PLPYLRNCRYDVCSCSDGRECLCGALASYAAACAGRGVRVAVREPGRCCLNCPKGQVYLQ  
CGTPCNLTCRSLSPDEECNEACLEGCFPPGLYMDERGDCVPKAQCPCYYDGEIFQPED  
IFSDHHTMCYCEDGFMHCTMSGVPGSLLPDAVLSSPLSHRSKRSLSCRPPMVKLVCADN  
LRAEGLECTKTCQNYDLECMGCVSGCLCPPGMVRHENRCVALERCPCFHHQKEYAPGE  
TVKIGCNTCVCQDRKWNCTDHVCDATCSTIGMAHYLTFDGLKYLFPGEQYVVLVQDYCGS  
NPGTFRILVGNGKCSHPSVKCKKRVITLVEGGEIELFDGEVNVKRPMDETHFEVVESGR  
YIILLGKALSVVWDRHLSISVVLKQTYQEKVCGLCGNFDGIQNNDLTSSNLQVEEDPVD  
FGNSWKVSSQCADTRKVPLDSSPATCHNNIMQTMVDSSCRILTSDFVQDCNKLVDPEPY  
LDVCIYDTCSCESIGDCACFCDTIAAYAHVCAQHGKVVTWRTATLCPQSCEERNLRENGY  
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DISEPLHDFYCSRLDLVFLLDGSSRLSEAEFEVLKAFVVDMMERLRISQKWVRVAVVE  
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TLLMASQEPQMRSNFVRVYVQLKKKKVIVIPVGIGPHANLKQIRLIEKQAPENKAFVL  
SSVDELEQQRDEIVSYLCDLAPEAPPPTLPPDMAQVTVGPGLLGVSTLGPKRNSMVLDA  
FVLEGS DKIGEADFNRSKEFMEEVIQRMDVGQDSIHVTVLQYSYMTVEYYPFSEAQSKGD  
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VTLGNSFLHLKCSG FVRICMDEDGNEKRPGDVWTLPDQCHTVTCQPDGQTLLKSHRVNCD  
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DGNVSSCGDHPSEGCFCPPDKVMLEGSCVPEEACTQCIGEDGVQHGFLEAWVPDHQPCQI  
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STVSCPLGYLASTATNDGCTTTTCLPDKVCVHRSTIYPVGQFWEEGCDVCTCTDMEDAV  
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WASPENPCLINECVRVKEEVFIQQRNVSCPQLEV P VCPSGFQLSCKTSACCPSCRCERME  
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CGRCLPTACTIQLRGGQIMTLKRDETLQDGC DTHFCKVNERGEYFWEKRV TGCPPFDEHK  
CLAE G GKIMKIPGTCCDTCEEPECNDITARLQYVKVGSCKSEVEVDIHYCQ GK CASKAMY  
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>sp|Q96NR7|WWAS2\_HUMAN Putative uncharacterized protein WWC2-AS2 OS=Homo sapiens GN=WWC2-  
AS2 PE=5 SV=1

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HRHLFIQQLLRTCWPALPRDRTPAPGGTMPGAALAGPGRQASGPAPQSEGAPPRWTPL  
QPGLHHRPPSSSSGLLSSFF

>sp|Q6AWC2|WWC2\_HUMAN Protein WWC2 OS=Homo sapiens GN=WWC2 PE=1 SV=2

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KEQRLALALDEYVRLNDAYKEKSSSHTSLFSGSSSTKYDPDILKAEISTTRLRVKKLKR  
ELS QMKQELLYKEQGFETLQQIDKKMSGGQSGYELSEAKAILTELKSIRKAISSGEKEKQ  
DLMQSLAKLQERFHL DQNI GRSEPDLR CSPVNSHLCLSRQTL DAGSQT SISGDIGVRSRS  
NLAEKVRLSLQYEEAKRSMANLKIELSKLDSEAWPGALDIEKEKLMLINEKEELLKELQF  
VTPQKRTQDELERLEAERQRLEEELLSVRGTPSRALAERLRLEERRKELLQKLEETTKLT  
TYLHSQLKSLSASTLSMSSGSSLGSLASSRGS LNTSSRGS LNSLSTELYYSSQSDQIDV  
DYQYKLD FLLQE KSGYIPSGPI TTIHENEVVKSPSQPGQSGLCGVA AATGHTPPLAEAP  
KSVASLSSRSSLSLSPPGSPLVLEGT FPMSSSHDASLHQFTADFEDCELS SHFADISLI  
ENQIILDS DSGGASQSLSEDKDLNECAREPLYEGTADVEKSLPKRRVIHLLGEKTTCVSA



AVSDES VAGDSGVYEFVKQPSEMEDVTYSEEDVAIVETAQVQIGLRYNKSSSFMVIA  
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QKTLRVDLCSVSKHRREECLAGTQISLADLPFSSEVFTLWYNLLPSKQMPCKKNEEDS  
VFQPNQPLVDSIDLDAVSALLARTSAELLAVEQELAQEEEEESGQEEPRGPDGDWLTMLR  
EASDEIVAEKEAEVKLPEDSSCTEDLSSCTSVPEMNEDGNRKESNCAKDLRSQPPTRIPT  
LVDKETNTDEAANDNMAVRPKERSSLSRQHPFVRSSVIVRSQTFSPGERNQYICRLNRS  
DSDSSTLAKKSLFVRNSTERRSLRVKRTVCQSVLRRTTQECPVRTSLDLELDLQASLTRQ  
SRLNDELQALRDLRQKLEELKAQGETDLPPGVLEDERFQRLKQAEKQAEQSKEEQKQGL  
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>sp|Q9HOM0|WWP1\_HUMAN NEDD4-like E3 ubiquitin-protein ligase WWP1 OS=Homo sapiens GN=WWP1  
PE=1 SV=1

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NPKWDEQLTVNVTPQTTFEFQVWSHRTLKADALLGKATIDLKQALLIHNRLKERVKEQLK  
LSLENKNGIAQTGELTVVLDGLVIEQENITNCSSSPTIEIQENGDAHENGEPARTAR  
LAVEGTNGIDNHVPTSTLVQNSCCSYVVGNDNTPSSPSQVAARPKNTPAPKPLASEPADD  
TVNGESSSFAPTDNASVTGTPVVSEENALSPNCTSTTVEDPPVQEILTSENNECIPSTS  
AELESEARSILEPDTNSRSSSAFEAAKSRQPDGCM DPVRQQSGNANTETLPSGWEQRKD  
PHGRITYYVDHNTRTTTWERPQPLPPGWERRVDDRRRVYYVDHNTRTTTWQRPTMESVRNF  
EQWQSQRNQLQGAMQFNQRYLYSASMLAAENDPYGPLPPGWEKRVDS DRVYFVNHNTK  
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IAYERGFRWKL AHFRYLQCSNALPSHVKINVSRTLFEDSFQQIMALKPYDLRRRLYVIF  
RGEEGLDYGGLAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASTINPDHLSYFCFI  
GRFIAMALFHGKFIDTGFSLPFYKRLMSKKLTIKDLESIDTEFYNSLIWIRDNNIEECGL  
EMYFSVDMEILGKVTS HDLKLGGSNILVTEENKDEYIGLMTWRF SRGVQEQTKAFLDGF  
NEVVPLQWLQYFDEKELEVMLCGMQEVDLADWQRNTVYRHYTRNSKQI IWFQFVKETDN  
EVRMRLQFVTGTCLPLGGFAELMGSNGPQKFCIEKVGKDTWLPRSHTCFNRDLPPYK  
SYEQLKEKLLFAIEETEGFGQE

>sp|Q6GPH4|XAF1\_HUMAN XIAP-associated factor 1 OS=Homo sapiens GN=XAF1 PE=1 SV=1

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MCQQSMQKSSLEFHKANECQERPVECKFCKLDMQLSKLELHESYCGSRTELCQCGGQFIM  
HRMLAQHRDVC RSEQAQLGKGERISAPEREIYCHYCNQMIPENKYFHHMGKCCPDSEFKK  
HFPVGNPEILPSSLPQAAENQTSTMEKDVRPKTRSINRFPLHSESSSKAPRSKNKTLD  
PLLMSPEPKPRTSSPRGDKAAYDILRRCSQCGILLPLPILNQHQEKCRWLASSKGKQVRNF  
S

>sp|Q9HD64|XAGE1\_HUMAN X antigen family member 1 OS=Homo sapiens GN=XAGE1A PE=1 SV=3

MESPKKKNQQLKVGILHLGSRQKKIRIQLRSQCATWKVICKSCISQTPGINLDLGSQVKV  
KIIPKEEHCKMPEAGEEQPV

>sp|Q9UBD3|XCL2\_HUMAN Cytokine SCM-1 beta OS=Homo sapiens GN=XCL2 PE=1 SV=1

MRLILALLGICSLTAYIVEGVGSEVSHRRTCVSLTTQRLPVSRIKTYTITEGSLRAVIF  
ITKRGLKVCADPQATWVRDVVRSM DRKSNTNRNMIQTKPTGTQGSTNTAVTLTG

>sp|P17861|XBP1\_HUMAN X-box-binding protein 1 OS=Homo sapiens GN=XBP1 PE=1 SV=2

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RQRLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEENQKLLLENQLLR  
EKTHGLVVENQELRQRLGMDALVAEEEEAEAKGNEVRPVAGSAESAALRLRAPLQQVQAQL

SPLQNISPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLPAWRSSQRSTQKDPVP  
YQPPFLCQWGRHQPSWKPLMN

>sp|P98170|XIAP\_HUMAN E3 ubiquitin-protein ligase XIAP OS=Homo sapiens GN=XIAP PE=1 SV=2

MTFNSFEGSKTCVPADINKEEEFVEEFNRLKTFANFPSGSPVSASTLARAGFLYTGEEDT  
VRCFSCHAAVDRWQYGDSAVGRHRKVSPNCRFINGFYLENSATQSTNSGIQNGQYKVENY  
LGSRDHFALDRPSETHADYLLRTGQVVDISDTIYPRNPAMYSEEARLKSFNWPDYAHLT  
PRELASAGLYYTIGIDQVQCFCGGKLNWEPCDRAWSEHRRHFPNCFVLGRNLNIRSE  
SDAVSSDRNFPNSTNLPRNPSMADYEARIFTFGTWIYSVNKEQLARAGFYALGEGDKVKC  
FHCGGLTDWKPSDPWEQHAHWYPGCKYLLEQKGQEIYNNIHLTHSLEECLVRTTEKTP  
SLTRRIDDTIFQNPVMQEAIRMGFSFKDIKIMEEKIQISGSNYKSLEVLVADLVNAQKD  
SMQDESSQTSLQKEISTEEQLRRLQEEKLCKICMDRNIAIVFVPCGHLVTCKQCAEAVDK  
CPMCYTVITFKQKIFMS

>sp|P18887|XRCC1\_HUMAN DNA repair protein XRCC1 OS=Homo sapiens GN=XRCC1 PE=1 SV=2

MP EIRLRHVVSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISVVLQLEKEEQIHSVDI  
GNDGSAFVEVLVGSSAGGAGEQDYEVLLVTSSFMSPSERSGSNPNRVRMFGPDKLVRAA  
AEKRWDRVKIVCSQPYSKDSFGLSFVRFHSPDKDEAEAPSQKVTVTKLGQFRVKEEDE  
SANSRLPGALFFSRINKTSPVTASDPAGPSYAAATLQASSAASSASPVSRAIGSTSKPQE  
SPKGKRKLDLNQEEKTPSKPPAQLSPSVPKRPKLPAPTRTPATAPVPARAQGAVTGKPR  
GEGTEPRRPRAGPEELGKILQGVVVVLSGFQNPFRSELRDKALELGAKYRPDWTRDSTHL  
ICAFANTPKYSQVLGLGGRIVRKEWVLDCHRMRRRLPSRRYLMAGPGSSSEDEASHGG  
SGDEAPKLPQKQPQTKTKPTQAAGPSSPKPPTPEETKAASPVLQEDIDIEGVQSEGQDN  
GAEDSGDTEDELRRVAEQKEHRLPPGQEENGEDPYAGSTDENTDSEEHQEPPDLVPPELP  
DFFQGHFFLYGEFPGDERRKLI RYVTA FNGELEDNMSDRVQFVITAQEWDP SFEEALMD  
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>sp|Q8IUB2|WFDC3\_HUMAN WAP four-disulfide core domain protein 3 OS=Homo sapiens GN=WFDC3  
PE=2 SV=1

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CGRICRDIPKGRKDCPRVIRKQSLKRCITDETCPGVKKCTLGCNKSCVVPISKQKLA  
EFGGECPADPLPCEELCDGDASCPQGHKCCSTGCGRTCLGDIEGGRGGDCPKVLVGLCIV  
GCVMDENCQAGEKCKSGCGRFCVPPVLPPKLTMPNPNWTVRSDELEIPVP

>sp|Q8TF30|WHAMM\_HUMAN WASP homolog-associated protein with actin, membranes and  
microtubules OS=Homo sapiens GN=WHAMM PE=1 SV=2

MEDEQPDSELGWVPVREGLFAEPERHRLRFLVAWNGAEGKFAVTCHDRTAQQRRRLREGAR  
LGPEPEPKPEAAVSPSSWAGLLSAAGLRGAHRQLAALWPPLERCFPRLPPELDVGGGGAW  
GLGLGLWALLWPTRAGPGEAALQELCGQLERYLGAAADGCGGATVRDALFPAEGGAADCE  
SPREFRERALARWVEADARLRQVIQGHGKANTMVALMNVYQEEDEAYQELVTVATMFFQ  
YLLQPFRAMREVATLCKLDILKSLDEDDLGP RRVVALEKEAE EWTRAAEEAVVSIQDITV  
NYFKETVKALAGMQKEME QDAKRFQAAWATAIPRLEKLQMLARETLQLMRAKELCLNH  
KRAEIQGKMEDLPEQEKN TNVDELEIQFYEQLELYEVKFEILKNEEILLTTQLDSLKR  
LIKEKQDEVVYYPDCENPEELKV IDCVVGLQDDKNLEVKELRRQCQQLESKRGRICAKRA  
SLRSRKDQCKENHRFRLQQAEE SIRYSRQHHSIQMKRDKIKEEEQKKKEWINQERQKTLQ  
RLRSFKDKRLAQSVRNTSGSEPVAPNLPSDLSQQMCLPASHAVSVIHPSSRKTRGVPLSE  
AGNVKSPKCQNCNHNIPVQVFVPVGDQTHSKSSEELSLPPPPPPPPPPPPPPPPPPPLR  
ALSSSSQAATHQNLGFRAPVKDDQPRPLVCESPAERPRDSLESFSCPGSMDEVLASLRHG

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>sp|A6NGB9|WIPF3\_HUMAN WAS/WASL-interacting protein family member 3 OS=Homo sapiens  
GN=WIPF3 PE=1 SV=4

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KVTQINDRSAPQIESSKGTNKEGGGSANTRGASTPPTLGDLFAGGFPVLRPAGQRDVAGG  
KTGGQPGSRAPSPRLPNKTISGLPIPPASPRLGNTSEAHGAARTAPPRPNVPAPPPPTPP  
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SVLSDKAVKPKLAPLHLPPIPPPLPLPPCGYPGLKAEPASPAQDAQEPPAPPPPLPPYA  
SCSPRASLPAPPLPGVNSSSETPPPLPPKSPSFQAPPQKAGAQUALPAPPAPPGSQPFLQK  
KRHGRPGAGGGKLNPPAPPARSPTTELSSKSQQATAWTPTQQPGGQLRNGSLHIIDDFE  
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TLR

>sp|Q702N8|XIRP1\_HUMAN Xin actin-binding repeat-containing protein 1 OS=Homo sapiens  
GN=XIRP1 PE=1 SV=1

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IHPELRKNLAEVAEDLAEVLGSEETEGDVQCMRWIFENWRLDAIGEHERPAAKEPVLC  
GDVQATSRKFEEGSFANSTDQEPTRPQPGGDVRAARWLFETKPLDEL TGQAKELEATVR  
EPAASGDVQGTRMLFETRPLDRLGSRPSLQEQSPLELRSEIQELKGDVKKTVKLFQTEPL  
CAIQDAEGAIHEVKAACREEIQSNAVRSARWLFETRPLDAINQDPSQVRVIRGISLEEGA  
RPDVSATRWFETQPLDAIREILVDEKDFQPSPDLPVGGPDVQQQHLFETRALDTLKGD  
EEAGAEAPPKEEVPGDVRSTLWLFETKPLDAFRDKVQVGHLQRVDPQDGEGLSSDSSS  
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EVVAGDVGTARWLFETQPLEMIHQREQERQKEEGKSQGDPEAPPKGDVQTI RWLFET  
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HVFETEPLQASGRPCGRRPVRYCSRVEIPSGQVSRQKEVFQALEAGKKEEQEPRVIAGSI  
PAGSVHKFTWLFENCPMGSLAAESIQQGNLLEE QPMSPSGNRMQESQETAAEGTLRTLHA  
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DQQGLLVQEDPTGQLQLKPLRLPTPGSSGNIEDMDPELQQLACGLGTSVARTGLVMQET  
EQGLVALTAYSLQPRLTSKASERSVQLLASCIDKGLSGLHSLRWEPPADPSPVPASEG  
AQLSHPTESI IHVPLDPSMGMGHLRASGATPCPPQAIGKAVPLAGEAAAPAQLQNTKQ  
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QMAWGPPGKMAEVC PGGQLAAETTLKTAPLGRHILASGPPQAAGASPHPHNAFVPPPPTL  
PAAVTGPDFPAGAHRAEDSIQQA SEPLKDP LLHSHSPAGQRTPGGSQTKTPKLDPTMP  
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DQGHIP LARCPSGHSQPSLQHGLSTTAPRPTKNQATGSNAQSSEPPKLNALNHDPTSPQW  
GPGSGEQPMEGSHQGAPESPD SLQRNQKELQGLLNQVQALEKEAASSVDVQALRRLFEA  
VPQLGGAAPQAPAAHQKPEASVEQAFGELTRVSTEVAQLKEQTLARLLDIEEAVHKALSS  
MSSLQPEASARGHFQGP PKDHS AHKISVTVSSSARPSGSGGEVGGQTAVKNQAKVECHTE  
AQSQVKIRNHTEARGHTASTAPSTRRQETSREYLCPPRVLPSSRDS PSSPTFISIQSATR  
KPLETPSFKGNPDVSVKSTQLAQDIGQALLHQKGVQDKTGKDDITQCSVQPEPAPPSASP

LPRGWQKSVLELQTPGSSQHYGAMRTVTEQYEEVDQFGNTVLMSSSTTVTEQAEPPRNP  
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>sp|A4UGR9|XIRP2\_HUMAN Xin actin-binding repeat-containing protein 2 OS=Homo sapiens  
GN=XIRP2 PE=1 SV=2

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TSRSSQEMARNEQEGSKVQKIDVHGTEMVSHLEKHTEEVNQASQFHQYVQETVIDTPEDE  
EIPKVSTKLLKEQFEKSAQEKILYS DKEMTTPAKQIKTESEYEETFKPSSVVSTSTSCV  
STSQRKETSTTRYSDHSVTSSTLAQINATSSGMTEEFPPPPPDVLQTSVDVTAFSQSP  
PSPRRRLPVPKDVYSKQRNLYELNRLYKHIHPELRKNLEKDYISEVSEIVSSQMNSGSSV  
SADVQARYVFENTNDSSQKDLNSEREYLEWDEILKGEVQSIRWIFENQPLDSINNGSPD  
EGDISRGIADQEI IAGGDVKYTTWMFETQPIDTLGAYSSDTVENAEIPELARGDVCTAR  
WMFETRPLDSMNKMHQSQEESAVTISKDITGGDVKTVRYMFETQHLDQLGQLHSVDEVHL  
LQLRSELKEIKGNVKRSIKCFETQPLYVIRDGSGQMLEIKTVHREDVEKGDVRTARWMFE  
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TDVSRKCWMFETQPLDILKEVPDADSLQREEIIGGDVQTTKHLFETLPIEALKDSPDIGK  
LQKITASEEEKGDVRHQKWIFETQPLEDIRKDKKEYTRTVKLEEVDRGDVKNYTHIFESN  
NLIKFDASHKIEVEGVTRGAVELNKSLEFETTPLYAIQDPLGKYHQVKTQQEEIVRGDVR  
SCRWLFETRPIDQFDESIHKFQIIRGISAQEIQTGNVKS AKWLFETQPLDSIKYFSDVEE  
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DVSSMRYKFENQSLDISSSSEEV LKKIKTLKTEDIQKGNVLNCRWLFENQPIDKIKESQ  
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FETQPLYAIQDREGSYHEVTTVKKEEVIHGDVGRWLFETKPLDSINKSETVYVIKSVT  
QEDIQKGDVSSVRYRFETQPLDQISEESHNIMPSIDHIQGGNVKTSRQFFESENFDKNY  
IRTVSVNEIQKGNVKTSTWLFETHMTDELRGEGLEYENIKTVTQEDVQKGDVKQAVWLFE  
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>sp|O15537|XLRSl\_HUMAN Retinoschisin OS=Homo sapiens GN=RS1 PE=1 SV=2

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>sp|Q5T750|XP32\_HUMAN Skin-specific protein 32 OS=Homo sapiens GN=XP32 PE=1 SV=1

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>sp|Q8IZH2|XRN1\_HUMAN 5'-3' exoribonuclease 1 OS=Homo sapiens GN=XRN1 PE=1 SV=1

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>sp|Q9H0D6|XRN2\_HUMAN 5'-3' exoribonuclease 2 OS=Homo sapiens GN=XRN2 PE=1 SV=1

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>sp|Q96GT9|XAGE2\_HUMAN X antigen family member 2 OS=Homo sapiens GN=XAGE2 PE=1 SV=1

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>sp|Q6PP77|XKR2\_HUMAN XK-related protein 2 OS=Homo sapiens GN=XKRX PE=2 SV=2

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>sp|Q5GH72|XKR7\_HUMAN XK-related protein 7 OS=Homo sapiens GN=XKR7 PE=2 SV=1

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>sp|Q01831|XPC\_HUMAN DNA repair protein complementing XP-C cells OS=Homo sapiens GN=XPC  
PE=1 SV=4

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>sp|O14980|XP01\_HUMAN Exportin-1 OS=Homo sapiens GN=XP01 PE=1 SV=1

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>sp|Q9C0E2|XP04\_HUMAN Exportin-4 OS=Homo sapiens GN=XP04 PE=1 SV=2

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>sp|Q9HAV4|XP05\_HUMAN Exportin-5 OS=Homo sapiens GN=XP05 PE=1 SV=1

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>sp|Q9BUR4|WAP53\_HUMAN Telomerase Cajal body protein 1 OS=Homo sapiens GN=WAP53 PE=1  
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>sp|Q64LD2|WDR25\_HUMAN WD repeat-containing protein 25 OS=Homo sapiens GN=WDR25 PE=1 SV=3

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SSRSRSSCAREAYPVECAVPTKPGPQVAAAPTCTRVCCIYSGDGQWLACGLANHLLLVF  
DASLTGTPAVFSGHDGAVNAVCWSQDRRWLLSAARDGTLRMWSARGAELALLLGKDMFSK  
PIQSAQFYIIDAFILLSSGPEFQLLRHYHIDTCKDEIKRYKQKSKSLICRLSTTGAVDMT  
SLSAVNDFYSHIVLAAGRNTVEVFDLNAGCSAAVIAEAHSRPVHQICQNKGSSTTQQP  
QAYNLFLTTAIGDMRLWDLRTLRCERHFEGHPTRGYPCGIAFSPCGRFAACGAEDRHAY  
VYEMGSSTFSHRLAGHTDVTGTGVAFNPSAPQLATATLDGKLQLFLAE

>sp|Q8NI36|WDR36\_HUMAN WD repeat-containing protein 36 OS=Homo sapiens GN=WDR36 PE=1 SV=1

MCCTEGSLRKRDSQRAPEAVLCLQLWQRTVPLDTLKGLTGCFPSGPELRGAGIAAAMERA  
SERRTASALFAGFRALGLFSNDIPHVVRFSALKRRFYVTTVCVGSFHTYDVQKLSLVAVS  
NSVPQDICCMAADGRLVFAAYGNVFSAFARNKEIVHTFKGHKAEIHFLQPFGDHIIISVDT

DGILIIWHIYSEEEYLQITFDKSVFKISAILHPSTYLNKILLGSEQSLQLWNVKSNNLL  
YTFPGWKVGVTALQQAPAVDVVAIGLMSGQVIIHNIKFNETLMKFRQDWGPITSISFRTD  
GHPVMAAGSPCGHIGLWDLEDKKLINQMRNAHSTAAGLTLHREPLLVNMGADNALRIW  
IFDGPTEGRLRLFRMGHSAPLTNIRYYGQNGQQILSASQDGTLSFSSTVHEKFNKSLGH  
GLINKKRVRKRLQNTMSVRLPPITKFAAEEARESDWDGIIACHQGKLSGSTWNYQKSTI  
GAYFLKPKELKKDDITATAVDITSCGNFAVIGLSSGTVDVYNNMQSGIHRGSFGKDQAHKG  
SVRGVAVDGLNQLTVTGSEGLLKFWNFKNKILHSVLSLSSPNIMLLHRDSGILGLALD  
DFSISVLDIETRKIVREFSGHQGQINDMAFSPDGRWLISAAMDCSIRTWDLPSGCLIDCF  
LLDSAPLNVSMSPGDFLATSHVDHLGIYLSNISLYSVSLRPLPADYVPSIVMLPGTC  
QTQDVEVSEETVEPSDELIEYDSPEQLNEQLVTLSSLPESRWKNLLNLDVIKKKNKPKEP  
PKVPKSAPFFIPTIPGLVPRYAAPEQNNDPQQSKVVNLGVLAQKSDFCLEGLVNNKY  
DTALNLLKESGPSGIETELRSLSPDCGGSIEVMQSFLKMIGMMLDRKDFELAQAYLALF  
LKLHLKMLPSEPVLEEITNLSSQVEENWTHLQSLFNQSMCILNYLKSALL

>sp|Q7Z5U6|WDR53\_HUMAN WD repeat-containing protein 53 OS=Homo sapiens GN=WDR53 PE=2 SV=1

MAVKWTGGHSSPVLCLNASKEGLLASGAEGDLTAWGEDGTPLGHTRFQGADDVTSVLFS  
PSCPTKLYASHGETISVLDVRSCLKDSLDFHVNNEEINCLSLNQTENLLASADDSGAIKI  
LDLENKKVIRSLKRHSNICSSVAFRPQRPQSLVSCGLDMQVMLWSLQKARPLWITNLQED  
ETEEMEGPQSPGQLLNPALAHSSISVASCNIFSCGAEDGKVRIFRVMGVKCEQELGFKGH  
TSGVSQVCFLPESYLLLTTGGNDGKITLWDANSEVEKKQKSPTKRTHRKKPKRGCTCKQGG  
NTNASVTDEEEHGNILPKLNIEHGEKVNWLLGTIKIGHQNILVADQTSCISVYPLNEF

>sp|Q8WVS4|WDR60\_HUMAN WD repeat-containing protein 60 OS=Homo sapiens GN=WDR60 PE=1 SV=3

MEPGKRRTKDDTWKADDLRKHLWAIQSGGSKEERKHREKKLRKESEMDLPEHKEPRCRDP  
DQDARSRDRAEVHTAKESPRGERDRDRQRERRRDAKDREKEKLKEKHREAESKSHSRGKD  
REKEKDRRARKEELRQTVAAHNLGQETRDRQLLERAERKGRSVSKVRSEEKDEDSEKGD  
EDRERRYRERKLQYGDSDKNPLKYWLYKEEGERRHRKPREPDRDNKHREKSSTREKREKY  
SKEKSNSFSKGEERHKEKRHKEGFHFDDEHQSNDVRKEKSAKDEPRKRESQNGEHRNR  
GASSKRDGTSSQHAENLVRNHGKDKDSRRKHGHEEGSSVWWKLDQRPGEETVEIEKEET  
DLENARADAYTASCEDDFEDYEDDFEVCDDDESSNEPESREKLEELPLAQKKEIQETIQ  
RAINAENERIGELSLKLFQKGRTEFEKEPRDTNSSPSRASVCGIFVDFASASHRQKSR  
TQALKQKMRSTKLLRLIDLFSFTFSLDLPPVNEYDMYIRNFGKKNTKQAYVQCNEENV  
ERDIQTEEIEETREVWTHQHPGESTVVSGGSEQRDTSDAVVMPKIDTPRLCSFLAACQVMA  
VLLEEDRLAAEPSWNLRAQDRALYFSDSSQLNTSLPFLQNRKVSLLHSTRVQRQMVVSV  
HDLPEKSFVPLLDKYVLCVWDIWQPSGPQKVLICESQVTCCLSPKAFLLFAGTAHGS  
VVVWDLREDSRLHYSVTLSDGFWTFRTATFSTDGILTSVNHRSPQAVEPISTSVHKKQS  
FVLSPFSTQEEMSGLSFHIALSDESGVLNVVVVELPKADIAGSISDLGLMPGGRVKLVH  
SALIQLGDSLHKGNEFWGTTQTLNVKFLPSDPNHFIIGTDMGLISHGTRQDLRVAPKLF  
KPQQHGIKRPVKVNVIDFSPFGEPIFLAGCSDGSIRLHQLSSAFPLLQWDSSTDSHAVTGL  
QWSPTRPAVFLVQDDTSNIYIWDLLQSDLGPVAKQVSPNRLVMAAVGEPEKAGGSFLA  
LVLARASGSIDIHLKRRWAAPEVDECNRLRLLLQEALWPEGKHLK

>sp|Q6ZQQ6|WDR87\_HUMAN WD repeat-containing protein 87 OS=Homo sapiens GN=WDR87 PE=1 SV=3

MSSPRLIPLWKDLKLLNLTINKSKQPSDPKNCILVSDRSQAVAWMKSATEDMVEKRT  
FSMTERLPPIQSMVHAGSFHILVVYCGDLILRLFGDHFRAFKPLGKVPKCRFNISCLCYDP  
EMKMLLSGILGAVVTWVIELGGTGLQIAHVMSPGDELVDIVLNGPSGSLALCETVVR  
VLMHQGKGQLGEVKRFTSTSSGSSITCCFTCFDQGFYAGNQAGEIQVWSLQQGHPLHSF

QAHQSGVICIRSRPEAHTLLTAGSDSLIKEWNLTSGSLLRRLELGEELYRLQFIDSITFF  
CQTAHSFSLHRLPCFYSLFNVCGSAPQQLRRVCCGNNWFRILCTTEDGLLRFVSPVTGDL  
LVITWPFSLDQAVDWAYDPGKEELFVATGSSEVLVFDTRCPCPAKYLLGTSPNSQDFV  
QCLAYGHFNLGRGLEGLIFSGHQSGVIRVLSQHSCARLEKFMHFGAVLALSTLSSGIFGG  
QGNSSLCSYGMDDYVHLSEAVLDGVKVQLRPLASILSSCHLTHLILLPKSVGAITETNCL  
RLWKFHDFLSSGSQNGLKFIETLPLHLCAITSFDVCLSLSLFVTGSADGSVRIWDFHGRL  
IGILDSSLHFGPVCFANDRGDLLVTFNQSLYLVSCLKLLPPALLTRLSFMSISDEVLEVP  
KPFIPSSFFSFETMFVPKYIYPGQAQQKLVGLEKLVNNRAIAFDHSVPHVIEEDEEGSPV  
LLRSSMHYSLQDMEDWMQVSKRYQCHYVLPPLQLTQTSWDGLNPYQILRYYFGHGREWLFA  
PDCYIPNSVIRARLWPEGTPIYLQCNLHAPQRELEWDRSQEFFFWHSRVRAISNTEYPKN  
KEEDEHFLEMRLSKDVTYSVLTDGANRSWLGRKMSEITINSMIETMLNIMVHASLLKYQC  
CVGALGQIFASYQVSPALRSETARRLLNDTTNSNPLIRELAWEGLKRLGMITHLFAMPLA  
QGLMDKDERVRIKTLISLMAEIGIHSRTSLLQLTQKQETFREMQQMIGEEPLDHLLGMRA  
TDLQILSTQVEQRLNENLTLSHRDEKPAFSLDVSMPSSELKSSLPPTVSESEVAIKPSK  
GQRRGQAGVKKHSQKWLRLGLKTKERDSKQMSSTEPGLLEDESGTEAAPIEMEEASVYSQW  
SSSTSIVIKLSKDVSQEKDISKDHIALTLKRLQKIRDKRDKKATAQKLKKKHKKKGKEAK  
VINEETTPPVMEQPVTKVKIQGRGASGISGRRSTAGDGSSWRDDLRLMALRISGSQTK  
MSENLAELVTFAQEMLVDRHPSWELFQEICPLLKKEKSVLLEDLDWDVVPPEKKPIFIQ  
EGAIREDMIQGVQTQEVIRHKEVMPREEEQAKKARDMLGLEETQVILKKGKKVIFLEPGN  
VTMGKEISKKEEKKTFQKSPKQGRKAVQKERKVGKIKREMTKEERDMSEEEVEEMATLEEK  
VVKQEGKLVMIERTPSWDWKKAWDEWKQVHGETRKSWKAWKEWEKRLQEEELKHQAG  
EKLSPEEEMQLQEDKKLKWEEWKQVWENMLSSKSKEQQYKDEEEVTLEEEVSREGEEKEQQ  
VTEEQRHIEEHWARIHRKRARAEEKKRAQEERKLAQEEELKLAQEERQLAQEERKLAQAY  
VKITQDDREMAQAEKGFAQKEETLAQRGEKLSQEAELKLAQRKKLAKKWEKVAREEEKLA  
KKGKLAEVKNILAQKVEELPQREQNLDWQEKELAQELELEWDMEELSWKEEELNQEEG  
KLVEEKKKLAEEEELALAWREKLSSEETKLAQEEELLIQEKEKLAQHKEKMPEEEEERLGR  
KREQLIEKKMKLAQKRERWINSMEELTKNKMILYQKKNLAQEKKNLAQEKEKLAQRKENL  
LYNKERLTHSKKQLVQVKNKLMFNKILAQVEEKLQEKETVICKKEKLAETEKKLQVE  
DSLAKKQEKLAQEKMKLALAKAMVQGGKRLRGELDIAKEEKALNLEMKRLAEKMRLEVG  
KETLSKGETPETSQRKMTQVEQELFERKLSLEEKILLHEDRILAMEESEIAKGKLEFTR  
GQRIFVQGQRKLAKASRKLICKRESLSKEPAKLNKILKALQKLTRDERKLTQEEIKMTKM  
KRALFVKERRLSIEQSKLDIKWDFSEKRSELTKDEKKLARKQRKLANKMRRMINKEEKM  
TEESKLARKHSEVILDDEEEGGIEEEEVIFPLKRRWRKRKEAKRGDKPKEKFSSQVDEV  
ESEEHFSEEMESLLELEKQESLSSEEEEEEEEEEEEEEEVREEEEEERKEEEEGEEKQV  
EKEEEKKKKKKKEKKKEEVQEKEEVFEEKEEIMSEETESLSDEEEEEESCSLEEEVDRE  
KEILKKEKQFKLQEQRRKSLRGRERVLSILRGVPHGKGRAIRLGVLSPLKKLMSTALEM  
KEKTPVPVPEKQISWEDKKATVVEIPRKFLGTMDKEREVMGKYEPIPPHVLGTVLESQAQ  
DLKTPFMSHILRRTVEAEELQHKPLGAWWKWFLQHPPLMGQTEVQLPLSQIPAKEQHADV  
SLSDVEWIRHVLERMEAGEQLSRDGFHRLCQLLKDASKGNLEWLHLAKHEATVYRHRQA  
LESQDTRISSRQMSMPKYLKVIPPIKAKEKESWPKPLAVPTQKSPLATKRIPDPRAKNWH  
LLGEPYRSERAQQISIAHKEMEMQYFYPATRDIFPSAHASVEKQTLALMFQKDFWDFKDK  
RRFPKLPKLEKKTQPISSKKEELPLWETFVALYHVLRLMLQQRYPKDSTAWMEQFYQLMDL  
YQLKSPRIQKLLQELLMREEPQPQEIIEEALKATELVPGERLFCCLFCGSSHTPRSPQE  
FQGAVPLPWQNCVRTILPVGIARYGILELAWKSLPEADLHLTKALHTHTVAPTL

>sp|Q96MX6|WDR92\_HUMAN WD repeat-containing protein 92 OS=Homo sapiens GN=WDR92 PE=1 SV=1  
MSAFEKPKIIAHIQKGFNYTVFDCKWVPCSAKFVTMGNFARGTGVIQLYEIQHGDLLLR  
EIEKAKPIKCGTFGATSLQQRYLATGDFGGNLHIWNLEAEMPVYSVKGHKEIINADGI  
GGLGIGEGAPEIVTGSRDGTVKVDPRQKDDPVANMEPVQGENKRDCWTVAFGNAYNQEE  
RVVCAGYDNGDIKFLDLRNMALRWETNIKNVCSLEFDRKDISMNKLVATSLEGKFHVFD  
MRTQHPTKGFASVSEKAHKSTVWQVRHLPQNRELFRTAGGAGGLHLWKYEYPIQRSKKDS  
EGIEMGVAGSVSLLQNVTLSTQPISSLDWSPDKRGLCVCSFDTVRVLIVTKLNKI

>sp|Q8NEX6|WFD11\_HUMAN Protein WFD11 OS=Homo sapiens GN=WFD11 PE=3 SV=1  
MVSLMKLWIPMLMTFFCTVLLSVLGEMRKKRYDRKELLLEECWGKPNVKECTNKCSKAFR  
CKDKNYTCCWTYCGNICWINVETSGDY

>sp|Q8IUA0|WFD8\_HUMAN WAP four-disulfide core domain protein 8 OS=Homo sapiens GN=WFD8  
PE=2 SV=2  
MWTVRTEGGHFPLHSPTFSWRNVAFLLLSLALEWTSAMLTKKIKHKPGLCPKERLTCTT  
ELPDSCNTDFDCKEYQKCCFFACQKKCMDPFQEPCLPVRHGNCNHEAQRWHDFKNYRC  
TPFKYRGCEGNANFLNEDACRTACMLIVKDGQCPLFPFTERKECPPSCHSDIDCPQTDK  
CCESRCGFVCARAWTVKKGFCPRKPLLCTKIDKPKCLQDEECPLVEKCCSHGLKCMDPR  
R

>sp|Q96NZ8|WFKN1\_HUMAN WAP, Kazal, immunoglobulin, Kunitz and NTR domain-containing  
protein 1 OS=Homo sapiens GN=WFKN1 PE=1 SV=1  
MPALRPLLPLLLLRLTSGAGLLPGLGSHPGVCPNQLSPNLWVDAQSTCERECSRDQDCA  
AAEKCCINVCGLHSCVAARFPGSPAAPTTAASCEGFVCPQGGSDCDIWDGQPVCRCDRC  
EKEPSFTCASDGLTYYNRCYMDAEACLRGLHLHIVPCKHVLSWPPSSPGPPETTARPTPG  
AAPVPPALYSSPSPQAVQVGGTASLHCDVSGRPPPAVTWEKQSHQRENLMRPDQMYGNV  
VVTSIGQLVLYNARPEDAGLYTCTARNAAGLLRADFPLSVVQREPARDAAPSIPAPAECL  
PDVQACTGPTSPHLVLWHYDPQRGGCMTFPARGCDGAARGFETYACQQACARGPGDACV  
LPVQGPCRGWEPRWAYSPLLQCHPFVYGGCEGNGNMFHSRESCEDACVPRTPPCRAC  
RLRSKLALSLCRSDFAIVGRLTEVLEEPEAAGGIARVALEDVLKDDKMGLKFLGTKYLEV  
TLSGMDWACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRVKKILELLEKQAC  
ELNRFQD

>sp|O43516|WIPF1\_HUMAN WAS/WASL-interacting protein family member 1 OS=Homo sapiens  
GN=WIPF1 PE=1 SV=3  
MPVPPPPAPPPPTFALANTEKPTLNKTEQAGRNALLSDISKGKKLKTVTNDRSAPILD  
KPKGAGAGGGGGGFGGGGFGGGGGGGGSGGGGPPGLGGLFQAGMPKLRSTANRDND  
SGGSRPPLPPGGRSTSAKPFSPSPGPRFPVPSPGHRSGPPEPQRNRMPPPRPDVGSKP  
DSIPPPVPSTPRPIQSSPHNRGSPPVPGGPRQPSPGPTPPPFPGNRGTALGGGSIRQSPL  
SSSSPFSNRPPLPPTPSRALDDKPPPPPPVGNRPSIHREAVPPPPQNNKPPVPSTPRP  
SASSQAPPPPPPSRPGPPPLPPSSSGNDETPRLPQRNLSLSSSTPPLPSPGRSGPLPPP  
PSERPPPPVRDPPGRSGPLPPPPVSRNGSTSRALPATPQLPSRSGVDSRSGRPPPLPP  
DRPSAGAPPPPPSTSIRNGFQDQSPCEDEWESRFYFHPISDLPPPEPVVQTTKSYPSKLA  
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>sp|O95389|WISP3\_HUMAN WNT1-inducible-signaling pathway protein 3 OS=Homo sapiens  
GN=WISP3 PE=1 SV=1  
MQGLLFSTLLLAGLAQFCCRVQGTGLDTPTEGRPGEVSDAPQRKQFCHWPCKCPQQKPR  
CPPGVSLVRDGCCKICAKQGEICNEADLCPHKGLYCDYSVDRPRYETGVCAYLVAV

GCEFNQVHYHNGQVFQPNPLFSCLCVSGAIGCTPLFIPKLAGSHCSGAKGGKSDQSNCS  
LEPLLQQLSTSYKTMAYRNPLIWKKKCLVQATKWTPCSRTCMMGISNRVTNENSNCM  
RKEKRLCYIQPCDSNLIKTIKIPKGTCTQPTFQLSKAEKFVFGSSTQSYKPTFCGICL  
DKRCCIPNKSMMITIQFDCPNEGSKWKMLWITSCVCQRNCREPGDIFSELKIL

>sp|O14905|WNT9B\_HUMAN Protein Wnt-9b OS=Homo sapiens GN=WNT9B PE=1 SV=3

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SRRQKQLCRREPGLAETLRDAAHLGLLECQFQFRHERWNCSEGRMGLLKRGFKETAFLY  
AVSSAALTHTLARACSAGRMECTCDDSPGLSRQAWQWVGCDNLKYSTKFLSNFLGSK  
RGNKDLRARADAHNTHVGKAVKSGLRRTTCKCHGVSGCAVRTCWKQLSPFRETGQVLKL  
RYDSAVKVSSATNEALGRLELWAPARQGSITKGLAPRSGDLVYMEDSPSFCRPSKYSPGT  
AGRVCSREASCSLCCGRGYDTQSRLVAFSCHCQVQWCCYVECQCVQEELVYTCKH

>sp|Q96S55|WRIP1\_HUMAN ATPase WRNIP1 OS=Homo sapiens GN=WRNIP1 PE=1 SV=2

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AKGPSPPGAKRRRLSESSALKQPATPTAAESSEGEEGEGDDGETESRESYDAPPTPSGA  
RLIPDFPVARSSSPGRKSGKRPAAGASPRSWDEAEAEQEEEEAVGDGDGDGDADA  
DGEDDPGHWDADAAEAATAFGASGGGRPHPRALAAEEIRQMLQGGKPLADTMRPDTLQDYF  
GQSKAVGQDTLLRSLETNEIPSLILWGPPGCGKTTLAHIASNSKKHSIRFVTLSATNA  
KTNDVRDVIKQAQNEKSFFKRKTILFIDEIHRFNKSQQDTFLPHVECGTITLIGATTENP  
SFQVNAALLSRCRVIVLEKLPVEAMVTILMRAINSLGIHVLDSRPTDPLSHSSNSSSEP  
AMFIEDKAVDTLAYLSDGDARAGNLQLAVLARLSSRKMFCKKSGQSYSPSRVLITEND  
VKEGLQRSHILYDRAGEEHYNCISALHKSMRGSQNASLYWLARMLEGGEDPLYVARRLV  
RFASEDIGLADPSALTQAVAAYQGCHFIGMPECEVLLAQCVVYFARAPKSEVYSAYNNV  
KACLRNHQGPLPPVPLHLRNAPTRLMKDLGYGKGYKNPMYSEPVDQEYLPEELRGVDFD  
KQRR

>sp|B1ANS9|WDR64\_HUMAN WD repeat-containing protein 64 OS=Homo sapiens GN=WDR64 PE=2 SV=1

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QKLFGPDVKNQDVKRFYRKLCNNTDASADWCEIFGYFSSEEDPIASQLDEENLVFFVSRK  
RRILISGSRRRDVIKSIKIPHLDLLITATQKGLITVFNNQDTSWITGCDYLLQLKRIVA  
TTERTIIIVWDYKAQGSSQENYFVIKPMDHCLLCVVCVPLPDHLCRDDILLGDDGGFVNRF  
TVNSDDFGIKQAKSKRKLQNQVLDSKNFKSVKRKLHNDWVMKIRYISALNCFGSCSLDSN  
HSLVLES�KRLEDNLPVREFSMRGANTFCYCVKANVITGGDDKVIIRLWHPNISTKPVG  
KLVGHMFSIAEIVTNEKDQHVVSLSAKVFRVWDIQTLSLLQVFHDSQGGPGDMQIYSMI  
YDANHGMLITGSSVMDMYPLTRMIQDTKQVPH THERE INVMLYNKYFHQVLTICSESIIR  
VWELETGLQVYQILEPHGFNTEVTSAAVDESGLFATGAYNGTVRIWDFGSGQEMKVLPE  
GKDWEDEHCLRRILFLKAQEKHQQLVLALERNGTIKMIQKEDDIYLMVIWELPDVVPF  
LQDGKHAVHLRMSTRDRNMAIPFPDVELIVERNFSQPTDNPTMDLLRVNCIDLLQVEGYN  
LIAAGTLNGVILWNFVTSTVKKVYRPEDCFTVNPDLHPKHFKINDILFLFRTPECARRS  
SQDSICSSSQCESSKGPQSSKSGKQSIHDSEVKGEQTDVMVGKQPMDDKKHPGIANLPEA  
QPPILVTAHEDGHLRLWTLEGRLLKDMLPFTKHSATSLTSLYTDSCTRILLAGNVEGHVI  
LCNISSFLDPHDEKFKQLLSWRAHSLEIIQVIYVEEKQVLTASIDGSLVRLWHALNGH  
YCGYFGQRRFLFELSQTDRDILPCDVTEYPIEIKEESKFTEKQKYEYPLIFDREKWRKMSS  
VSLLFKRTPPKAFEVEQDFKFFKSLSSPKIRRYPLEGFVTENREAGIVFGSLPIYSISSP  
TSLRFLPLIGVEAQKDSSDITGKKKGHVQREKAPRRRSLKKNLVPQINLASSFFPAIP  
K

>sp|Q96FK6|WDR89\_HUMAN WD repeat-containing protein 89 OS=Homo sapiens GN=WDR89 PE=2 SV=1  
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NVLREFSGYPGLNNGVRFANSVCSACTDGTVKCW DARVAREKPVQLFKGYPSNIFIS  
FDINCNDHII CAGTEKVVDDALLVFW DARMNSQNLSTTKDSL GAYSETHSDDVTQVR FHP  
SNPNMVVSGSSDGLVNVFDINIDNEEDALVTT CNSISSVSCIGWSGKG YKQIYCMTHDEG  
FYWWDLNHLDTDEPVTRLNIQDVREV VNMKEDALDYLIGGLYHEKTD TLHVIGGTNKGRI  
HLMNCSMSGLTHVTSLQGGHAATVRSFCWNVQDD SLLTGGEDAQLLLWKP GAI EKTFTTK  
ESMKIASSVHQVRVRVHSNDSYKRRKKQ

>sp|Q96KV7|WDR90\_HUMAN WD repeat-containing protein 90 OS=Homo sapiens GN=WDR90 PE=1 SV=2  
MARAWQHPFLNVFRHFRVDEWKRS AKQGDVAVVTDKTLKGAVYRIRGSVSAANYIQLPKS  
STQSLGLTG RYLYV LFRPLPSKHFVIHLDVSSKDNQVIRVSF SNLFKEFKSTATWLQFPL  
VLEARTPQRDLVGLAPSGARWTC LQLDLQDVLLVYLNRCYGLKSI RLCASLLVRNLYTS  
DLCFEP AISGAQWAKLPVTPMPREMAFPVPKGESWHDRIHVRF PSESLKVPSKPIEKSC  
SPPEAVLLGPGPQLPCPVASSKPVRFSVSPVVQTPSPTASGRAALAPRPFPEVSLSQER  
SDASNADGPGFHSLEPWAQLEASDIHTAAAGTHVLTHESA EVPVARTGSCEGFLPDPVLR  
LKGVI GFGGHGT RQALWTPDGA AVVYPCHAVIVVLLVDTGEQRFFLGHTDKVSALALDGS  
SSLLAS AQARAPSMRLWDFQTGRCLCLFRSPMHVVC SLFSDSGALLCGVGKDHGRTM  
VVAWGTGQVGLGGEVV LAKAHTDFDVQAFRVTF FDETRMASCQGGSVRLWRLRGGV LRS  
CPVDLGEHHALQFTDLAFKQARDGCPEPSAAML FVCSRS GHILEIDCQRMVVRHARRLLP  
TRTPGGPH PQKQTFSSGPGIAISSLSVPAMCAVGSE DGFLRLWPLDFSSV LLEAEHEGP  
VSSVCVSPDGLRVSATSSGHLGFLDTLSRVYHMLARSHTAPVLALAMEQRRGQLATVSQ  
DRTVRIWDLATLQQLYDFTSSEDAPCAVTFHPTRPTFFCGFSSGAVRSFSLEAAEVLVEH  
TCHRGAVTGLTATPDGRLLFSSCSQGS LAQYSCADPQWHVLRVAADMVCPDAPASPSALA  
VSRDGRLLAFVGPSRCTVTVMGSASLDELLRVDIGTLDLASSRLDSAMAVCFGPAALGHL  
LVSTSSNRVVLD AVSGRI IRELPGVHPEPCPSLTLSEDARFLLIAAGRTIKVWDYATQA  
SPGPQVYIGHSEPVQAVAFSPDQQVLSAGDAVFLWDVLAPTESDQSFPGAPPACKTGPG  
AGPLEDAASRASELPRQQVPKPCQASPPRLGVCARPPEGGDGARDTRNSGAPRTTYLASC  
KAFTPARVSCSPHSAKGTCPPPASGGWRLKAVVGYSNGN GRANMVWRPDTGFFAYTCGRL  
VVVEDLHSGAQQHWSGHS AEISTLALSHSAQVLASASGRSSTTAHCQIRVWDVSGGLCQH  
LIFPHSTTVLALAFSPDDRLLVTLGDHDGRTLALWGTATYDLVSSTRLPEPVHGVAFNPW  
DAGELTCVGQGTVTFWLLQQRGADISLQVRREPVEAVGAGELTSLCYGAPLLYCGTSS  
GQVCVWDTRAGRCFLSWEADDGGIGLLLFSGSRLVSGSSTGRLRLWAVGAVSEL RCKGSG  
ASSVFMEHELVL DGAVVSASFDDSVDMGVVGTTAGTLW FVSWAEGTSTR LISGHRSKVNE  
VVFSPGESHCATCE DGSVRVWALASMELVIQFQVLNQSCLCLAWSP PCCGRPEQQRLAA  
GYGDGSLRIFSVSRTAMELKMHPHPVALTTVAFSTDGQTVLSGDKDGLVAVSHPCTGTTF  
RVLSDHQGAPISTICVTCKEEDLGVEGTDLWLAASGDQRVSVWASDWLRNHCELVDWLS  
FMPATTETQGHLPPLA AFCPWDGALLMYVGPGVYKEVI IYNLCQKQVVEKIPLPFFAM  
SLSLSPGTHLLAVGFAECMLRLVDCAMGTAQDFAGHDNAVHLCRFTPSARLLFTAARNEI  
LVWEVPGL

>sp|P30291|WEE1\_HUMAN Wee1-like protein kinase OS=Homo sapiens GN=WEE1 PE=1 SV=2  
MSFLSRQQPPPPRRAGAACTLRQKLIFSPCSDCEEEEEEEEEEGSGHSTGEDSAFQEPDS  
PLPPARSPTEPGPERRRSPGPAPGSPGELEEDLLLPGACPGADEAGGGAEGDSWEEEGFG  
SSSPVKSPAAPYFLGSSFSVPVRCGGPGDASPRGCGARRAGEGRRSPRPDHPGTPPHKTFR  
KLRLFDTPHTPKSLLSKARGIDSSSVKL RGS SLFMDTEKSGKREFDVRQTPQVNINPFTP

DSLLHSSGQCRRRKRTYWNDSCEGMEASDYELEDETRPAKRITITESNMKSRYTTEFH  
ELEKIGSGEFGSVFKCVKRLDGCIIYAIKRSKKPLAGSVDEQNALREVIYAHAVLGQHSV  
RYFSAWAEDDHMLIQNEYCNGGLADAISENYRIMSYFKEAELKDLLLQVGRGLRYIHS  
SLVHMDIKPSNIFISRTSIPNAAEEGDEDDWASNKVMFKIGDLGHVTRISSPQVEEGDS  
RFLANEVLQENYTHLPKADIFALALTVVCAAGAEPLPRNGDQWHEIRQGRLPRIPQVLSQ  
EFTELLKVMIHDPERRPSAMALVKHSVLLSASRKSAEQLRIELNAEKFKNSLLQKELKK  
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>sp|Q8IUB3|WF10B\_HUMAN Protein WFDC10B OS=Homo sapiens GN=WFDC10B PE=2 SV=2  
MAPQTLVLVLCVLLQLAQGGYRDKMRMQRIKVCEKRPSIDLCIHCSYFQKCETNKIC  
CSAFCGNICMSIL

>sp|Q8WWY7|WFD12\_HUMAN WAP four-disulfide core domain protein 12 OS=Homo sapiens GN=WFDC12  
PE=2 SV=1  
MGSSSFLVLMVSLVLTVAVEGVKEGIEKAGVCPADNVRCFKSDPPQCHTDQDCLGERK  
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>sp|Q9BQY6|WFDC6\_HUMAN WAP four-disulfide core domain protein 6 OS=Homo sapiens GN=WFDC6  
PE=2 SV=1  
MGLSGLLPILVPFILLGDIQEPGHAEGILGKPCPKIKVECEVEEIDQCTKPRDCPENMKC  
CPFSRGKKCLDFRKIYAVCHRR LAPAWPPYHTGGTIKTKICSEFIYGGSQGNNNNFQTE  
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>sp|Q9BYP7|WNK3\_HUMAN Serine/threonine-protein kinase WNK3 OS=Homo sapiens GN=WNK3 PE=1  
SV=3

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FKEKNEKEMEEEEAMKAVATSPSGRFLKFDIELGRGAFKTVYKGLDTETWVEVAWCELQD  
RKLTKAEQQRFKEEAEMLKGLHPNIVRFYDSWESILGKKCIVLVTELMTSGTLKTYLK  
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VEIEPATQNPKTSFSYEKLQALQETCKENKGVPKQGDNFLSFSAACTDVSSVTPEKEFE  
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EEQAYAQTQSSLFYSPSSPMSSDDESEIEDEDLKVELQRLREKHIQEVVNLQTQQNKELQ  
ELYERLRSIKDSKTQSTEIPLPPASPRRPRSFKSKLRSRPQSLTHVDNGIVATGKSCLIN  
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GVSGSCTLRTCWRLSDFRRTGDYLRRRYDGAVQVMATQDGANFTAARQGYRRATRDLV  
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>sp|P09544|WNT2\_HUMAN Protein Wnt-2 OS=Homo sapiens GN=WNT2 PE=2 SV=1  
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VMRAISQGVAEWTAECQHQRFRHWRWNCNTLDRDHSLFGRVLLRSSRESAFVVAISSAGVV  
FAITRACSQGEVKSCSCDPKKMGSAKDSKGFIDWGGCSDNIDYGIKFARAFVDAKERKKGK  
DARALMNLHNNRAGRKAVKRFLLKQECKCHGVSGSCTLRTCWLAMADFRKTGDYLWRKYNG  
AIQVVMNQDGTGFTVANERFKKPTKNLTVYFENSPDYCIRDREAGSLGTAGRVCNLTSRG  
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>sp|P56704|WNT3A\_HUMAN Protein Wnt-3a OS=Homo sapiens GN=WNT3A PE=1 SV=2  
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EIMPSVAEGIKIGIQECQHQRFRGRWNCCTTVHDSLAIIFGPVLDKATRESAFVHAIASAGV  
AFAVTRSCAEGTAAICGSSRHQGSPPGKWKWGGCSEIDIEFGGMVSREFADARENRPDAR  
SAMNRHNNEAGRQAIASHMHLKCKCHGLSGSCEVKTWWSQPDFRAIGDFLKDKYDSASE  
MVVEKHRESRGWVETLRPRYTYFKVPTERDLVYYEASPNFCEPNPETGSFGTRDRTCNV  
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>sp|Q9H1J7|WNT5B\_HUMAN Protein Wnt-5b OS=Homo sapiens GN=WNT5B PE=2 SV=2  
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LCQLYQEHMAYIGEGAKTGIKECQHQRFRRRWNCSTADNASVFGRMQIGSRETAFTHAV  
SAAGVVNAISRACREGELSTCGCSRTARPKDLPRDWLWGGCGDNVEYGYRFAKEFVDARE  
REKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGCSLKTCLWLQLAEFRK  
VGDLKEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESGSLGTQ  
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>sp|P41221|WNT5A\_HUMAN Protein Wnt-5a OS=Homo sapiens GN=WNT5A PE=1 SV=2  
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YIIGAQPVCSQLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDN  
TSVFGRMQIGSRETAFTYAVSAAGVVNAMSACREGELSTCGCSRAARPKDLPRDWLWG  
GCGDNIDYGYRFAKEFVDARERERIHAKGSYESARILMNLHNEAGRRTVYNLADVACKC  
HGVSGCSLKTCLWLQADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLV  
YIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTVQTERCHCKFH  
WCCYVKCKKCTEIVDQFVCK



>sp|Q9P2S5|WRP73\_HUMAN WD repeat-containing protein WRAP73 OS=Homo sapiens GN=WRAP73 PE=1 SV=1

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LFILCAMYKRGLVQVWSLEQPEWHCKIDEGSAGLVASCWSPDGRHILNTTEFHLRITVWS  
LCTKSVSYIKYPKACLQGITFTRDGRYMAAERRDCKDYVSIFVCSDWQLLRHFDTDQD  
LTGIEWAPNGCVLAVWDTCLEYKILLYSLDGRLLSTYSAYEWSLGIKSAWSPSSQFLAV  
GSYDGKVRILNHVTWKMITFEFGHPAAINDPKIVVYKEAEKSPQLGLGCLSFPPPRAGAGP  
LPSSSESKYEIASVPVSLQTLKPVTDRANPKIGIGMLAFSPDSYFLATRNDNIPNAVWVWD  
IQKLRLFAVLEQLSPVRAFQWDPQPPRLAICTGGSRLYLWSPAGCMSVQVPPEGDFAVLS  
LCWHLSGDSMALLSKDHFCLCFLETEAVVGTACRQLGGHT

>sp|Q8N9V3|WSDU1\_HUMAN WD repeat, SAM and U-box domain-containing protein 1 OS=Homo sapiens GN=WDSUB1 PE=1 SV=3

MVKLIHTLADHGDDVNCCAFSFSLLATCSLDKTIIRLYSLRDFTEPHSPLKFHTYAVHCC  
CFSPSGHILASCSTDGTTVLWNTENGQMLAVMEQPSGSPVRVCQFSPDSTCLASGAADGT  
VVLWNAQSYKLYRCGSVKDGSAAACAFSPNGSFFVTGSSCGDLTVWDDKMRCPHSEKAHD  
LGITCCDFSSQPVSDGEQGLQFFRLASCGQDCQVKIIVSFTHILGFELKYKSTLSGHCA  
PVLACAFSHDGMVLVSGSVDKSVIVYDTNTENILHTLTQHTRYVTTCAFAPNTLLLATGS  
MDKTVNIWQFDELTLCQARRTEHQLKQFTEDWSEEDVSTWLCAQDLKDLVGIFKMNNIDG  
KELLNLTKESLADDLKIESLGLRSKVLRKIEELRTKVKSLSSGIPDEFICPITRELMKDP  
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>sp|Q9UPY5|XCT\_HUMAN Cystine/glutamate transporter OS=Homo sapiens GN=SLC7A11 PE=1 SV=1

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GIFISPKGVLQNTGSGVMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGP  
LPAFVRVWVELLIIRPAATAVISLAFGRYILEPFFIQCEIPELAIKLITAVGITVVMVLN  
SMSVSWSARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAFSGRDSSITRLPLAFY  
YGMAYAGWFYLVNFVTEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS  
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGLHPEILSMIHV  
RKHTPLPAVIVLHPLTMIMLFSGLDLSLLNFLSFARWLFGLAVAGLIYLRKCPDMHRP  
FKVPLFIPALFSFTCLFMVALSLYSDPFSTGIGFVITLTGVPAYYLFIIWDKKPRWFRIM  
SEKITRTLQIILEVPEEDKL

>sp|Q92889|XPF\_HUMAN DNA repair endonuclease XPF OS=Homo sapiens GN=ERCC4 PE=1 SV=3

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DRIPSDLITGILVYRAHRIIESCQEAFILRLFRQKNKRGFIKFTDNAVAFDTGFCHVER  
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YDCVTFNLNLESRLATEKAFGQNSGWLFLDSSTSMFINARARVYHLPDAKMSKKEKISEK  
MEIKEGEETKKELVLESNPKEALTEVLKEIEAENKESEALGGPGQVLICASDDRTCSQL  
RDYITLGAEAFLLRLYRKTFEKDSKAEVWMKFRKEDSSKRIRKSHKRPKDPQNKERAST  
KERTLKKKKRKLTLTQMVGKPEELEEEGDVEEGYRREISSPESCPEEIKHEEFDVNLSS  
DAAFGILKEPLTIIHPLLGCSDPYALTRVLHEVEPRYVVLYDAELTFVRQLEIYRASRPG  
KPLRVYFLIYGGSTEEQRYLTALRKEKEAFEKLIREKASMVPEEREGRDETNDLVRGT  
ASADVSTDRKAGGQEQNGTQQSIVVDMREFRSELP SLIHRRGIDIEPVTLEVGDYILTP  
EMCVERKISDLIGSLNNGRLYSQCISMSRYYKRPVLLIEFDPSKPFSLTSRGALFQEIS

SNDISSKLTLTLHFRLRLWCPSPHATAELFEELKQSKPQDAATALAITADSETLPE  
SEKYNPGPQDFLLKMPGVNAKNCRLMHVKNIAELAALSQDELTSILGNAANAKQLYDF  
IHTSFAEVVSKGKGGK

>sp|043895|XPP2\_HUMAN Xaa-Pro aminopeptidase 2 OS=Homo sapiens GN=XPNPEP2 PE=2 SV=3

MARAHWGCCPWLVLCCACAWGHTKPVDLGGQDVRNCSTNPPYLPVTVVNTTMSLTALRQQ  
MQTQNLISAYIIPGTDAHMNEYIGQHDERRAWITGFTGSAGTAVVTMKKAAVWTDSTRYWTQ  
AERQMDCNWELHKEVGTTPIVTWLLTEIPAGGRVGFDPFLSIDTWESYDLALQGSNRQL  
VSITTNLVDLVWGSERPPVPNQPIYALQEFTGSTWQEKVSGVRSQMQRKHQKVPTAVLLS  
ALEETAWLFLNLRASDIPYNPFYSYTLTDSIRLFANKSRFSSETLSYLNSSCTGPMCV  
QIEDYSQVRDSIQAYSLGDVRIWIGTSYTMGIYEMIPKEKLVTDITYSPVMMTKAVKNSK  
EQALLKASHVRDAVAVIRYLVWLEKNVPGTVDEFSGAEIVDKFRGEEQFSSGSPSFETIS  
ASGLNAALAHYSPTKELNRKLSSEMYLLDSGGQYWDGTTDITRTVHWGTPSAFQKEAYT  
RVLIGNIDLSRLIFPAATSGRMVEAFARRALWDAGLNYGHGTGHGIGNFLCVHEWPVGFQ  
SNNIAMAKGMFTSIEPGYYKDGEGFIRLEDVALVVEAKTKYPGSYLTFEVVSFVPYDRNL  
IDVSLLSPEHLQYLNRYQTIREKVGPELQRRQLLEEFEWLQQHTEPLAARAPDTASWAS  
VLVVSTLAILGWSV

>sp|P04004|VTNC\_HUMAN Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1

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EAPAPEVGASKPEGIDSRPETLHPGRPPQPAEEELCSGKPFDAFTDLKNGSLFAFRGQYC  
YELDEKAVRPGYPKLIRDVWIEGPIDAAFTRINCQGKTYLFKGSQYWRFDGVLDPDYP  
RNISDGFDPIDNVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQPSQEECEGSSLSA  
VFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRDWHGVPQVDAAMAGRIYISGMA  
PRPSLAKKQRFHRNRKGYRSQRGHSRGRNQNSRRPSRATWLSLFSSEESNLGANNYYDY  
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>sp|Q6PCB0|VWA1\_HUMAN von Willebrand factor A domain-containing protein 1 OS=Homo sapiens  
GN=VWA1 PE=1 SV=1

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VAPLPLGTGALRASLVHVGSRPYTEFPFGQHSSGEAAQDAVRASAQRMGDTHTGLALVYA  
KEQLFAEASGARPGVPKVLVWVTDGSSDPVGPPMQELKDLGVTVFIVSTGRGNFLELSA  
AASAPAEKHLHFVDVDDLHIIVQELRGSILDAMRPQQLHATEITSSGFRLAWPPLLTADS  
GYVYLELVPSAQPGAARRQQPLGNATDWIWAGLDPDTDYDVALVPESNVRLLRPQILRVR  
TRPGEAGPGASGPESGAGPAPTQLAALPAPEEAGPERIVISHARPRSLRVSWAPALGSAA  
ALGYHVQFGPLRGGEAQRVEVPAGRNCTTLQGLAPGTAYLVTVTAAFRSGRESALSAKAC  
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>sp|Q658N2|WSCD1\_HUMAN WSC domain-containing protein 1 OS=Homo sapiens GN=WSCD1 PE=2 SV=1

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ALGVGLLDSRALHDPVSPPELLLGVDMLQSPLTRPRPGPRWLRSRNSLRQLRRRWFHFF  
MSDSQGPPALGPEARPAIHSRGTYIGCFSDDHERTLKGAVFYDLRKMTVSHCQDACAE  
RSYVYAGLEAGAECYCGNRLPAVSVGLEECNHECKGEGKSGCAVDRLSVYRVDELQPGS  
RKRRTATYRGCFLPENITHAFPSLIQANVTVGTCSGFCSQKEFLAILRGWECYCAYP  
TPRFNLRDAMDSSVCGQDPEAQRLAEYCEVYQTPVQDTRCTDRRFLPNKSKVFVALSSFP  
GAGNTWARHLIEHATGYTGSYYFDGTLNKGFKGEKDHWSRRTICVKTHESGRREIEM  
FDSAILLIRNPYRSLVAEFNRKCAGHLGYAADRNWKSKEWPDFVNYSYASWWSSHVLDWLK

YGKRLLVVHYEELRRSLVPTLREMVAFLNVSVSEERLLCVENKEGSFRRRGRRSHDPEP  
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>sp|Q9UIA9|XP07\_HUMAN Exportin-7 OS=Homo sapiens GN=XP07 PE=1 SV=3

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FDCQKDDYVFRNAITDVTRFLQDSVEYCIIGVTILSQLTNEINQADTHPLTKHRKIIASS  
FRDSSLFDIFTLSCNLLKQASGKNLNLNDESQHGLLMQLLKLTHNCLNFDFIGTSTDESS  
DDLCTVQIPTSWRSAFLDSSTLQLFFDLYHSIPPSFSPLVLSCLVQIASVRRSLFNNAER  
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NFTVTSLQHWEFAPNSVHYLLSLWQRLAASVPYVKATEPHMLETYTPEVTKAYITSRLS  
VHIILRDGLEDPLEDTGLVQQQLDQLSTIGRCEYEKTCALLVQLFDQSAQSYQELLQSAS  
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NRSQRLQFDVSSPNGILLFRETSKMITMYGNRILTLGEVPKDQVYALKLKGISICFSMLK  
AALSGSYVNFVFRLYGDDALDNLQTFIKLLLSIPHSDLLDYPKLSQSYSLLEVLTDQD  
HMNFIASLEPHVIMYILSSIIEGLTALDTMVCTGCCSCLDHIVTYLQKLSRSTKKRTP  
LNQESDRFLHIMQQHPMIQQMLSTVLNIIIFEDCRNQWSMRPLLGLILLNEKYFSDLR  
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NSNDMMS

>sp|Q9UBH6|XPR1\_HUMAN Xenotropic and polytropic retrovirus receptor 1 OS=Homo sapiens  
GN=XPR1 PE=1 SV=1

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TCEKELAKINTFYSEKLAEARRFATLQNELQSSLDAQKESTGVTTLRQRRKPVFHL  
SHEERVQHRNIKDLKLAFFSEFYLSLILLQNYQNLNFTGFRKILKKHDKILETSRGADWRVAHV  
EVAPFYTCCKINQLISETAEVVTNELEDGDRQKAMKRLRVPLGAAQPAPAWTTFRVGLF  
CGIFIVLNITLVLAAVFKLETDRSIWPLIRIYRGGFLLIEFLFLLGINTYGWRQAGVNHV  
LIFELNPRSNLSHQHLFEIAGFLGILWCLSLACFFAPISVIPTYVYPLALYGMVFFLI  
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LKWDESKGLLPNNSEESGICHKYTYGVRAIVQCIPAWLRFIQCLRRYRDTKRAFPHLVNA  
GKYSTTFMVTFALYSTHKERGHSDTMVFFYLWIVFYIISSCYTILIWDLKMDWGLFDKN  
AGENTFLREEIVYPQKAYYYCAIIEDVILRFAWTIQISITSTLLPHSGDIIATVFAPLE  
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>sp|O75191|XYLB\_HUMAN Xylulose kinase OS=Homo sapiens GN=XYLB PE=1 SV=3

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LHQQLQDCFSISDCPVWMDSSTTAQCRLAAVGAQALSCLTGSRAZERFTGNQIAKIY  
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TSDTLFLWLQEPMPALEGHIFCNPVDSQHYMALLCFKNGSLMREKIRNESVSRSWSDFSK  
ALQSTEMGNGGNLGFYFDVMEITPEIIGRHRFNTENHKVAAFPGDVEVRALIEGQFMAKR

IHA EGLYRVMSKTKILATGGASHNREILQVLADVFDAPVYVIDTANSACVGSAYRAFHG  
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>sp|075063|XYLK\_HUMAN Glycosaminoglycan xylosylkinase OS=Homo sapiens GN=FAM20B PE=1 SV=1

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VFKPKRYSRDHVVEGEPYAGYDRHNAEVA AFHLDRILGFHRAPLVVGRFVNL RTEIKPVA  
TEQLLSTFLT VGNNTCFYGKCYCRETEPACADGDIMEGSVTLWLPDVWPLQKHRHPWGR  
TYREGKLARWEYDESYCDAVKKTS PYDSGPRLLDIIDTAVFDYLIGNADRHYESFQDDE  
GASMLILLDNAKSFGNPSLDERSILAPLYQCCIIRVSTWNRLNYLKNGLKSALKSAMAH  
DPISPVLSDPHLDAVDQRLLSVLATVKQCTDQFGMDTVLVEDRMPLSHL

>sp|Q8N8P6|YX004\_HUMAN Putative uncharacterized protein FLJ39060 OS=Homo sapiens PE=2  
SV=1

MVDGRTRTIINDIFFTEPTPEMSSLPVRSHSSLSLNLVSLMVICRGIKLVIFRMYCPP  
RLKAKHIEPTLRPVPLKELRISHWPNECIRHSASVPMATGANGLKDETKRNAEKCACS  
VFL

>sp|Q6AW86|Z324B\_HUMAN Zinc finger protein 324B OS=Homo sapiens GN=ZNF324B PE=1 SV=1

MTFEDVAVYFSQEEWGLLDTAQRALYRHVMLENFTLVTSGLSTSRPRVVIQLERGEEPW  
VP SGKDMTLARNTYGR LNSGSWSLTEDRDVSGEWPRAFDPDTPPGMTTSVFPVADACHSVK  
SLQRQPGASPSQERKPTGVSVIYWERLLGSRSDQASISLRLTSPLRPPKSSRPREKTFT  
EYRVPGRQPTPERQKPCAQEVPGRAFGNASDLKAASGGRDRRMGAAWQEPHRLGGQEP  
STWDELGEALHAGEKSFECRACSKVFKSSDLLKHLRTHTGERPYECTQCGKAFSQTSHL  
TQHQR IHSGETPYACPVCGKA FRHSSSLVRHQRIHTAEKSFRCECGKAFSHGSNLSQHR  
KIHAGGRPYACAQCGRRFCRNSHLIQHERHTGKPFVFCALCGAAFSQGSSSLFLHQRVHT  
GEKPFACAQCGRSFSRSSNLTQHQLLHTGERPFRCVDCGKGFAGAVLLSHRRIHTGEKP  
FVCTQCGRAFRRERPALHHR IHTTEKTNA AAPDCTPGPGFLQGHHRKVRRGGKPSVLK  
PAKV

>sp|Q9COD4|Z518B\_HUMAN Zinc finger protein 518B OS=Homo sapiens GN=ZNF518B PE=2 SV=2

MKDIGQQLYTTHLNGGHNSLTMSPKQPDANGAPRPNRQEAQTL LYQGSEAEAMMTIATC  
AKCKSVHKISLQDLQKGTGKDMYVCFQCSLGAAPPNFHFVSNNSSATHVGNKTENFSSS  
VNSKFKVRNFKPGKYCDKCRFSTKDPLQYKKHTLQHEEIKFICSHCSYISYTKGEFQRH  
LVKHTGIFPYQCEYCDYGAIRNDYIVKHTKRVHERAGAKRPVKAVAKLEPKRTGTSTKQNP  
ELLKASNPRTTFNKWSDDLGSFSLHANKDKMHNIMLLPEPKEYQKD VVCIPNKM TLSEP  
NEVNL FENKNVEVEVLSPAKEPVQPGMPLTVVAPAE LVVPANCLAQLIDVKVNGTQQLV  
LKLFPLEENNCLEAGRDNGGNSERMVKEKGSNEQEKVLSAEKTKSLTVDGNVGKLVGIDS  
FQPSVQKQLKNVWVRSYDFIMPNSSVHNGKSFINSETIEDFQKKNNLYPHRTAFPSVA  
LKGHSLASVFKNSVLRLSLGAASNPFYKAAVCFAESGRNLHSSSQLLPFAASPATCSFS  
GEKGLLPVSENDLESTSKVNIPVKVSSNRKQEDNQTEEHKAVSTVGQISSQHKSEYLHI  
NITGEDRSQQPGDKPLELKNsertnntNDGPVISSVFSLSGSENVPEGIKWNSSTSKIK  
STELLRRKIAQLIESCGKPSLASNSAHRRSVGQASKGTSKATSEGIQEINVSLTGLGHS  
TGTLQKPPNDGGITGNRQLTHQQIYPHFADGSNRKTKSRVARKAHVATPVLPKGAVLRV  
LNSSENAHIIEATCEAPVSI PCSERQLIKPVFPVCPVRQADSDLQPLRSERGPIDMSPNIE  
TPLRPKLKESAVCSTIHRKTGLLYGQQGSSELNKQGRLLSRSLISRNKTKQVHLSRKK  
NKIQAEPSRCLKDPSIFQVARQLRLIAAKPDQLIKCPRRNQPVIVLNHPDVDSPEVTNVM  
KVINKYKGNVLKVVLSERTRCQLGIRRHHVRLTYQNAEEASQIKRQMMMLKMKLKKVHKNN

YQVVDSLPDDSSQCVFKWFCGRLYEDQEEWMSHGQRHLIEATRDWDVLSSKGK

>sp|POCI00|Z705B\_HUMAN Putative zinc finger protein 705B OS=Homo sapiens GN=ZNF705B PE=5 SV=1

MHSLEKVT FEDVAIDFTQEEWDMMDTSKRKLYRDVMLENISHLVSLGYQISKSYIILQLE  
QGKELWWEGRVFLQDQNP DRESALKKKHMISMHP IIRKDTSTSM TMENSLILED PFEYND  
SGEDCTHSSTITQC LLTHSGKKPCVSKQCGKSLRNLLSPKPRKQIHTKGKSYQC NLCEKA  
YTNC FYLR RHKMTHT GERPYACHLCGKAFTQC SHLRRHEKTH TGERPYKCHQCGKAF IQS  
FNLRRHERTHLGQKCYECDKSGKAFSQSSGFRGNKIIHIGEKPPACLLCGKAFSLSSDLR

>sp|Q7Z570|Z804A\_HUMAN Zinc finger protein 804A OS=Homo sapiens GN=ZNF804A PE=1 SV=3

MECYIIVISSTHLSNGHFRNIKGVFRGPLSKNGNKTLDYAEKENTIAKALED LKANFYCE  
LCDKQYYKHQEFDNHINSYDHAHKQRLKELKQREFARNVASKSRKDERKQEALQRLHKL  
AELRKETVCAPGSGPMFKSTTVTVRENCNEISQRVVVDSVNNQQDFKYTLIHSEENTKDA  
TTVAEDPESANNYTAKNNQVGDAQGIHRHKIGFSFAFPKKASVKLESSAAAFSEYSDDA  
SVGKGF SRKSRFVPSACHLQQSSPTDVLSSSEK TNSFHPPEAMCRDKETVQTQEIKEVS  
SEKDALLLP SFCKFQLQLSSDADNCNSVPLADQIPLESVVINEDIPVSGNSFELLGNKS  
TVLDMSND C ISVQATTEENVKHNEASTTEVENKNGPETLAPSNT EEVNITIHKKTNFCKR  
QCEPFVPVLNKRSTVLQWPSEMLVYTTTKPSISYSCNPLCFDFKSTKVNNNLDKNKPD L  
KDLCSQQKQEDICMGPLSDYKDVSTEGLT DYEIGSSKNKCSQVTPLLADDILSSSCDSGK  
NENTGQRYKNISCKIRETEKYNFTKSQIKQDTLDEKYNKIRLKETHEYWFHKSRRKKKRK  
KLCQH HHMEKTKESETRCKMEAENSYTENAGKYLLEPISEKQYLA AEQLLD SHQLLDKRP  
KSESI SLSDNEEMCKTWNT EYNTYDTISSKNHCKKNTILLNGQSNATMIHSGKHNLTYSR  
TYCCWTKMSSCSQDHRSLVLQNDMKHMSQNQAVKRGYNSVMNESERFYRKRQRHSHSYS  
SDESLNRQNHLP EEFLRPPSTSVAPCKPKKKRRRRKGRFHPGFETLELKENTDYPVKDNS  
SLNPLDRLISEDKKEKMKPQEVAKIERNSEQTNQLRNKLSFHPNNLLPSETNGETEHEM  
ETTSGELSDVSNDP TTSVCVASAPTKEAIDNTLLEHKERSENINLNEKQIPFQVPNIERN  
FRQSQPKSYLCHYELAEALPQGKMNETPTEWLRYSNGILNTQPPLPFKEAHVSGHTFVTA  
EQILAPLALPEQALLIPL ENHDKFKNVPCEVYQHILQPNMLANKVKFTFPPAALPPPSTP  
LQPLPLQQSLCSTSVTTIHHTVLQHHAAAAAAAAAAAAAGTFKVLQPHQQFLSQIPALTR  
TSLPQLSVGPVGPRLCPGNQPTFVAPPQMPIIPASVLHPSHLAFPSLPHALFPSLLS PHP  
TVIPLQPLF

>sp|Q401N2|ZACN\_HUMAN Zinc-activated ligand-gated ion channel OS=Homo sapiens GN=ZACN PE=1 SV=2

MMALWSLLH LTLGFSITLLL VHGGFQGTAAIWPSLFNVNLSKKVQESI QIPNNGSAPL  
LVDVRVFSNVFNVDILRYTMSSMLLLRLSWLDTRLAWNTSAHPRHAITLPWESLWTPRL  
TILEALWVDWRDQSPQARVDQGHVKLNLALATETNCNFELLHFPRDHSNCSLSFYALSN  
TAMELEFQAHVVNEIVSVKREYVVYDLKTQVPPQQLVPCFQVTLRLKNTALKSIIALLVP  
AEALLADVCGGLPLRAIERIGYKVTLLLSYLV LHSSLVQALPSSSSCNPLLIYYFTIL  
LLLLFLSTIETVLLAGLLARGNLGAKSGPSPAPRGEQREHGNGPHPAE EPSRGVKGSQR  
SWPETADRIFFLVYVVGVLCTQVFVAGIWMWAACKSDAAPGEAAPHGRRPRL

>sp|O15209|ZBT22\_HUMAN Zinc finger and BTB domain-containing protein 22 OS=Homo sapiens GN=ZBTB22 PE=1 SV=1

MEPSPLSPSGAALPLPLSLAPPLPLPAAAVHVVSFPEVTSALLES LNQQRLQGQLCDVS  
IRVQGREFRAHRAVLAASSPYFHDQVLLKGMTSISLPSVMDPGAFETVLASAYTGRLSMA  
AADIVNFLTVGSVLQMWHIIVDKCTELLREGRASATTTITTAATSVTPGAGVP SGSGGT

VAPATMG SARSHASSRASENQSPSSSNYFSPRESTDFSSSSQEAF AASAVGSGERRGGGP  
VFPAPVVGSGGATSGKLLLEADELCDDGGDGRGAVVPGAGLRPTYTPPSIMPQKHVVYV  
KRGNCNPAPTLPVQDPDLEEEEEEDLVLTCEDEDEELGGSSRPVGGGPEATLSISD  
VRTLSEPPDKGEEQVNFCESSNDFGPYEGGGPVAGLDDSGGPTSSYAPSHPPRPLPLD  
MQGNQILVFPSSSSSSSSQAPGQPPGNQAEHGAVTVGGTSVGS LGVPGSVGGVPGGTGSG  
DGNKIFLCHCGKAFSHKSMRDRHVNHLNLRPFDCPVCNKKFKMKHHLTEHMKTHTGLKP  
YECGVCAKKFMWRDSFMRHRGHCERRHRLGGVGAVPGPGTPTGPSLPSKRESPGVGGGSG  
DEASAATPPSSRRVWSPPRVHKVEMFGGGGGAN

>sp|P10074|ZBT48\_HUMAN Zinc finger and BTB domain-containing protein 48 OS=Homo sapiens  
GN=ZBTB48 PE=1 SV=2

MDGSFVQHSVRVLQELNKQREKQYCDATLDVGGLVFKAHWSVLACCSHFFQSLYGDGSG  
GSVVLPAGFAEIFGLLLDFFYTGH LALTSGNRDQVLLAARELRVPEAVELCQSFKPKTSV  
GQAAGGQSGLGPPASQNVNSHVKEPAGLEEEEVSR TLGLVPRDQEPRGSHSPQRPQLHSP  
AQSEGPSSLCGKLKQALKPCPLEDDKKPEDCKVPPRPLEAEGAQLQGGSNEWEVVVQVEDD  
GDGDMSEPEAVL TRRKSNI RKPCAAEPALSAGSLAAEPAENRKGTA VPVECPTCHKKF  
LSKYLLKVHNRKHTGEKPFEC PKCGKCYFRKENLLEHEARNCMNRSEQVFTCSVCQETFR  
RMELRVHVMVSHTGEMPYKSSCSQ QFMQKKDLQSHMIK LHGAPKPHACPTCAKCFLSRT  
ELQLHEAFKHRGEKLFVCEECGHRASSRNLQMHIKAKHRNERPHVCEFCSHAFTQKANL  
NMHLRTHTGEKPFQCHLCGKTFR TQASLDKHNRTHTGERPFSCEFC EQRFTEKGPLL RHV  
ASRHQEGRP HFCQICGKTFKAVEQLRVHVR RHKGVRKFECTECGYKFTRQAHLRRHMEIH  
DRVENYNPRQRKLRNLIIEDEKMVVVALQPPAELEVGS AEVIVESLAQGGLASQLPGQRL  
CAEESFTGPGVLEPSLIITA AVPEDCDT

>sp|A2A288|ZC12D\_HUMAN Probable ribonuclease ZC3H12D OS=Homo sapiens GN=ZC3H12D PE=1 SV=3

MEHPSKMEFFQKLGYDREDVLRVLGKLGE GALTNDVLQELIRTGSRPGALEHPAAPRLVP  
RGSCGVPDSAQRPGTAL EEDFRTLASSLRPIVIDGSNVAMSHGNKETFSCRGIKLAVDW  
FRDRGHTYIKVFVPSWRKDP PRADTPIREQHVLAE LERQAVLVYTPSRKVH GKRLVCYDD  
RYIVKVAYEQDGVIVSNDNYRDLQSENPEWKWFIEQRLLMFSFVNDRFMPPDDPLGRHGP  
SLSNFLSRKPKPPEPSWQHCPYGGKCTYGIKCKFYH PERPHHAQLAVADELRAKTGARPG  
AGAEERPPRAPGGSAGARAAPREPFAHSLPPARGSPDLAALRGSF SRLFASDDLGLPLGP  
PLPVPACSLTPRLGGPDWVSAGGRVPGPLSLPSPESQFSPGDLPPPGLQLQPRGEHRPR  
DLHGDLLSPRRPPDDPWAPPRSDRFPGRSVWAEP AWGDGATGGLSVYATEDDEGDARAR  
ARIALYSVFPRDQVDRVMAAFPELSDLARLILLVQRCQSAGAPLGKP

>sp|P61129|ZC3H6\_HUMAN Zinc finger CCCH domain-containing protein 6 OS=Homo sapiens  
GN=ZC3H6 PE=1 SV=2

MTDSEHAGHDREDGELEDGEID DAGFEEIQEKEAKENEKQKSEKAYRSRKKHKKEREKK  
KSKRRKREKHKHNSPSSDDSSDYS LDDSDVEHTESSHKRTGFYRDYDIPFTQRGHISGSY  
ITSKKGQHKKFKSKEYDEYSTYSDDNFGNYSDDNFGNYGQETEEDFANQLKQYRQAKET  
SNIALGSSFSKESGKKQRMKG VQQGIEQRVKSFNVGRGRGLPKKIKRKERGGRTNKGPNV  
FSVSDDFQEYNKPGKKWKVMTQEFINQHTVEHKGKQICKYFLEGRCIKGDQCKFDHDAEL  
EKRKEICKFYLQGYCTKGENC IYMHNEFPCKFYHSGAKCYQGDNCKF SHDDLTKETKLL  
DKVLNTDEELINEDERELEELRKRGITPLPKPPPVG LLLTPPEHFPFSDPEDDFQTDFS  
DDFRKIPSLFEIVVKPTVDLAHKIGRKPPAFYTSASPPGPQFQGSSPH PQHIYSSGSSPG  
PGPNMSQGHSSPVMHPGSPGHHP CAGPPGLPVPQSPPLPPGPPEIVGPQNQAGVLVQPDT  
SLTPPSMGGAYHSPGFPGHVMKVPRENHCS PGSSYQQSPGEMQLNTNYESLQNP AEFYDN

YYAQHSIHNFPNNNSGDMWHGEFAQQQPPVVQDSPNHGSGSDGSSTRTGHGPLPVPGL  
LPAVQRALFVRLTQRYQEDEEQTSTQPHRAPSKKEEDTVNWySSSEEEGSSVKSILKTL  
QKQTETLRNQQQPSTELSTPTDPRLAKEKSKGNQVVDPRLRTPRQDIRKPSESAPLDR  
LAWDPRKLRLGNGSGHIGSSVGGAKFDLHHANAGTNVKKRGDDDDDEDTERELREKAFLIP  
LDASPGIMLQDPRSQLRQFSHIKMDITLTKPNFAKHIVWAPEDLLPVPLPKPDPVSSINL  
PLPPLIADQRLNRLWNTKSDLHQNTVSIIDPKLAAKAKINTTNREGYLEQFGDSHGSGAKL  
GDPRLQKNFDPRLHRLPNTESHQVVMKDSHASKGAPHLPRSNPGSSQPSGAGTSNSGSGA  
LPPYAPKLSSSAGLPLGTSTSVLSGISLYDPRDHGSSSTSELATASSGENSKNQKSGGL  
KSSDKTEPSPGEAILPQKPSPNVGTLEGPADPQADVPRSSGKVQVPAVHSLPVQALTGL  
IRPQYSDPRQARQPGQGSPTPDNDPGRETDDKSLKEVFKTFDPTASPC

>sp|Q5T200|ZC3HD\_HUMAN Zinc finger CCH domain-containing protein 13 OS=Homo sapiens  
GN=ZC3H13 PE=1 SV=1

MSKIRRKVTVENTKTISDSTSRRPSVFERLGPSTGTAETQCRNWLKTGNCLYGNTCRFV  
HGSPSPRGKGYSSNYRRSPERPTGDLRERMKNKRQVDTEPQKRNTTESSSPVRKESSRGR  
HREKEDIKITKERTPESEENVEWETNRDDSDNGDINYDYVHELSEMKRQKIQRELMKL  
EQENMEKREEIIKKEVSPEVVRSKLSPSPSLRKSSKSPKRKSSPKSSASKKDRKTSV  
SSPLLDQQRNKTQSKKKGPRTPSPPPPIPEDIALGKKYKEKYKVKDRIEEKTRDGKDR  
GRDFERQREKRDKPRSTSPAGQHHSPISSRHSSSSQSGSSIQRHSPSPRRKRTSPSYQ  
RTLTPPLRRSASPYPHSLSSPQRKQSPPRHRSPMREKGRHDHERTSQSHDRRHERREDT  
RGKRDREKDSREEREYEQDQSSSRDHRDDREPRDGRDRRDARDTRDRRELDRSRDMRDSR  
EMRDYSRDTKESRDPDRSRSTRDAHYRDREGDRDTHRKEDTYPEESRSYGRNHLREESSR  
TEIRNESRNESEIRNDRMGRSRGRVPELPEKSGRSGRGSQIDSHSSNSNYHDSWETRS  
SYPERDRYPERDNRDQARDSSFFERRHGERDRDRDNREDQRPSSPIRHQGRNDELERDERR  
EERRVDRVDDRRDERARERDRERERDRERERERERERDREREKERELERERARERERERE  
KERDRERDRDRDHDRERERERERDREREKEREREREERERERERERERERERERERARER  
DKERERQRDWEDKDKGRDDRREKREEIREDRNPRDGHDERKSKKRYRNEGSPSPRQSPKR  
RREHSPDSDAYNSGDDKNEKHRLLSQVVRPQESRSLSPSHLTEDRQGRWKEEDRKPERKE  
SSRRYEEQELKEKVSSVDKQREQTEILESSRMRAQDIIGHHQSEDRSDRAHDENKKKA  
KIQKKPIKKKKEDDVGIERNIETTSQVSPKKGQKKKSIEKKRKKSKGSDSIDDEE  
AAQQSKKKRGPRTPPITTKHEELVEMCNGKNGILEDSSQKKEDTAFSDWSEDPDRTEVTE  
AEHTATATTPGSTPSPLSSLLPPPPPVATATATTVPATLAATAAATSFSSTAITISTS  
ATPTNTNTNFANEDSHRCHRTRVEKVETPHVTIEDAQHRKPMQKRSSSLGSNRSNRS  
HTSGRLRSPSNDSAHRSGDDQSGRKRVLHSGSRDREKTKSLEITGERKSRIQLKRGEP  
RSTSSDRQDSRSHSSRRSSPESDRQVHSRSGSFDSRDRLQERDRYEHDRERERERRDRQ  
REWDRDADKDWPRNRDRDLRERERERERDKRRDLDRERERLISDSVERDRDRDRDRTFE  
SSQIESVKRCEAKLEGEHERDLESTSRDSLALDKERMDKDLGSVQGFEETNKSERTESLE  
GDDESKLDDAHLGSGAGEGYEPISSDELDEILAGDAEKREDQDEEKMPDPLDIVDWDW  
SGLMPKHPKEPREPGAALLKFTPGAVMLRVGISKKLAGSEFAKVKETCQRLLEKPKDAD  
NLFEHELGAALMAALLRKEERASLLNLGPCKALCFRRDSAIRKQLVKNEKGTIKQAYT  
SAPMVDNELLRLSLRLFKRKTTHAPGHEKTEDNKLSQSSIQQELCVS

>sp|Q9NQZ6|ZC4H2\_HUMAN Zinc finger C4H2 domain-containing protein OS=Homo sapiens  
GN=ZC4H2 PE=1 SV=1

MADEQEIMCKLESIKEIRNKTLMKIKARLKAFFEALSEERHLKEYKQEMDLLLQEKM  
AHVEELRLIHADINVMENTIKQSENDLNKLESTRRLHDEYKPLKEHVDALRMTLGLQRL

PDLCEEEELSLDYFEKQKAEWQTEPQEPPIPESLAAAAAAQQLQVARKQDTRQTATFR  
QQPPPMKACLSCHQIHRNAPICPLCKAKSRSRNPKPKRKRQDE

>sp|Q7Z2W4|ZCCHV\_HUMAN Zinc finger CCCH-type antiviral protein 1 OS=Homo sapiens  
GN=ZC3HAV1 PE=1 SV=3

MADPEVCCFITKILCAHGGRMALDALLQEIALSEPQLCEVLQVAGPDRFVVLETGGEAGI  
TRSVVATTRARVCRRKYCQRPCDNLHLCKLNLGRCNYSQSERNLCKYSHEVLSEENFKV  
LKNHELSGLNKEELAVLLLQSDPPFMPEICKSYKGEGRQICNQPPCSRLHICDHFTRG  
NCRFPNCLRSHNLMRDKVLAIMREHGLNPDVVQNIQDICSKHMQKNPPGPRAPSSHRRN  
MAYRARSKSRDRFFQGSQEFLASASASAERSCTPSPDQISHRASLEDAPVDDLTRKFTYL  
GSQDRARPPSGSSKATDLGGTSQAGTSQRFLENGSEDLLHGNGSTYLASNSTAPNWK  
SLTSWTNDQGARRKTVFSPTLPAARSSLGSLQTPEAVTTRKGTGLSSDYRIINGKSGTQ  
DIQGPLFNNNADGVATDITSTRSLNYKSTSSGHREISSPRIQDAGPASRDVQATGRIAD  
DADPRVALVNDLSLSDVTSTTSSRVDDHDSEEICLDHLCKGCPLNGSCSKVHFHLPYRWQM  
LIGKTWTDFEHMETIEKGYCNPGLHLCVGSYNTINFRVMCDSFPIRRLSTPSSVTKPAN  
SVFTTKWIWYWKNESTWIIQYGEEDKDRKNSNVDSYLESYQSCPRGVVPFQAGSRNYE  
LSFQGMITQNIASKTQKDVIRRPTFVPQWYVQMKRGPDHQPAKTSSVSLTATFRPQEDF  
CFLSSKKYKLSEIHHLHPEYVRVSEHFKASMKNFKIEIKKIENSELLDKFTWKKSQMKE  
EGKLLFYATSRAYVESICSNFDSFLHETHENKYKGKIYFAKDAIYSHKNCPYDAKNVVM  
FVAQVLVGKFTENITYTSPPPQFDSCVDTRSNPSVFVIFQKQVYPQYVIEYTEDKACV  
IS

>sp|Q86VM9|ZCH18\_HUMAN Zinc finger CCCH domain-containing protein 18 OS=Homo sapiens  
GN=ZC3H18 PE=1 SV=2

MDVAESPERDPHSPEDDEEQPQGLSDDDLIRDSGSDQDLGAGVRASDLEDEESAARGPSQ  
EEEDNHSDEEDRASEPKSQDQDSEVNELSRGPTSSPCEEEGDEGEEDRTSDLRDEASSVT  
RELDEHELDYDEEVEEPAPAVQEDEAEKAGAEDDEEKGEPTREEGKAGVQSVGEKESL  
EAAKEKKKEDDDGEIDDGEIDDDLEEGEVKDPDRKVRPRPTCRFFMKGNCWTGMNCRF  
IHPGVNDKGNYSLITKADFPFNGAPPLGPHPLMPANPWGGPVVDEILPPPPPEPPTESA  
WERGLRHAKEVLKATIRKEQEPDFEEKRFTVTIGEDEREFDKENEVFRDWSRIPRDVR  
DTVLEPYADPYDYIEERFWRGGQYENFRVQYTETEPYHNYRERERERERENRQERERE  
RERDRERERRRERERERERERERDKERQRRKEEWERERAKRDEKDRQHRDRDREKEREKEK  
GKPKPRSPQPPSRQAEPKKEAATGTPQVKRADEWKDPWRRSKSPKKKLGVSVSPSRARR  
RRKTSASSASANSRSSSRSSSYSGSGSSRSRSSSYSSSRSSRHSSFSGSRSRSR  
SFSSSPSPSPTSPHRSIRTKGEPAPPPGKAGEKSVKKPAPPPAPPQATKTTAPVPEPT  
KPGDPREARRKERPARTPPRRRLSGSGSGSGSSSYSGSSSRSLSVSSVSSVSSATSSS  
SSAHSVDSEDMYADLASPVSSASSRSPAPAQTRKEKGKSKKEDGVKEEKRRKDSSTQPPK  
SAKPPAGGKSSQPSTPQQAPPQQPQQGTFAHKEIKLTLLNKAADKGSRKRYEPSDKDR  
QSPPPAKRPNTSPDRGSRDRKSGGRLGSPKPERQRGQNSKAPAAPADRRKRLSPQSKSSS  
KVTSVPGKASDPGAASTKSGKASTLSRREELLKQLKAVEDAIARKRAKIPGKA

>sp|Q504Y3|ZCPW2\_HUMAN Zinc finger CW-type PWWP domain protein 2 OS=Homo sapiens GN=ZCWPW2  
PE=1 SV=1

MDKEKLDVKIEYCNAMDSVENMYVNVVWVCENENCLKWRLSSEDSAKVDHDEPWYC  
FMNTDSRYNNCSIIEEDFPEESQLHQCQFKIVYSQLPLGLSLVLVKLNWPSWPGILCPDR  
FKGKYVTYDPPDGNVEEYHIEFLGDPHSRSWIKATFVGHYSITLKPEKCKNKKKWKYSALQ  
EACLLYGSHEQRLEMCCLSKLQDKSETHDKVAALVKKRKQTSKNNIEKKKPKFRKRKRK



AILKCSFENVYSDDALSKENRVVCETEVLLEQMLQQALQPTATPDESEEGHGEEINM  
GEKLSKCSPEAPAGSLFENHYEEDYLVIDGIKLKAGECIEDITNKFKEIDALMSEF

>sp|Q9HCK1|ZDBF2\_HUMAN DBF4-type zinc finger-containing protein 2 OS=Homo sapiens  
GN=ZDBF2 PE=1 SV=3

MQKRQGYCSYCRVQYNNLEQHLFSAQHRSLTRQSRRQICTSSLMERFLQDVLQHHPYHCQ  
ESSSTQDETHVNTGSSSEVVHLDDAFSEEEEEDEDKVEDEDATEERPSEVSEPIEELHSR  
PHKSQEGTQEVSVRPSVIQKLEKGGQQPLEFVHKIGASVRKCNLVDIGQATNNRSNLVRP  
PVICNAPASCLPESSNDRPVTANTTSLPPAAHLDSVSKCDPNKVEKYLEQPDGASRNPVP  
SSHVETTSFSYQKHKESNRKSLRMNSDKLVWKDVKSQGKTL SAGLKFERMGTKGSLRV  
KSPSKLAVNPNTDMP SNKGIFEDTIAKNHEEFFSNMDCTQEEKHLVFNKTA FWEQKCSV  
SSEMKFDCISLQSASDQPQETAQDL SLWKEEQIDQEDNYESRGSEMSFDCSSSFHSLTDQ  
SKVSAKEVNLSKEVRTDVQYKNNKSYVSKI SSDCDDILHLVTNQSQMIVKEISLQNA RHI  
SLVDQSYESSSETNFDCASPQSTSDYPQQSVTEVNL PKEVHIGLVDKNYGSSSSEVSA  
DSVFPLQSVVDRPPVAVTETKL RKAHTSLVDNYGSSCSETS FDCDVSLESVVDHPQLTV  
KGRNLKGRQVHLKHKRKPSSAKAHLDCDVS LGTVADESQRAVEKINLLKEKNADLM DMN  
CESHGPEMGFQADAQLADQSQVAEIERQKVDVDLENKSVQSSRSSLSSDSPASLYHSAHD  
EPQEALDEVNLKELNIDMEVRSYDCSSSELTFDSDPPLLSVTEQSHLDAEGKERHIDLED  
ESCESDSSEITFDSDIPLYSVIDQPEVAVYEEETVDLESKSNESCSEITFDSDIPLHSG  
NDHPEVAVKEVIQKEEYIHLERKNDEPSGSEISSDSHAPLHSVTNSPEVAVKKLNPQKEE  
QVHLENKENEPIDSEVSLDYNIFHSVTGRSEDPIKEISLHTKEHMYLENKSVFETSLDS  
DVPLQAATHKPEVIVKETWLQREKHA EFQGRSTEFSGSKTSLDSGVPHYSVTEPQVAVNK  
INRKKQYVLENKNDKCSGSEIILDSNVPPQSM TDQPQLAFLKEKHVNLKDKNKSGDSKI  
TFDSEQLQEAVKIDQWKEEVI GLKNKINEPSTYKLIHHPDVSQSVADQPKVAIKHVNL  
GNENHMYLEVKNQSYSCSEMNLD SGFLGQSIVNRPQITILEQEHI ELEGKHNQCCGSEVS  
FDSDDPLQSVADRLRETVKEISLWKDEEVDTE DRRNEAKGFEIMYDSDLQPVAGQP EEV  
VKEVSLWKEHVDLENKIVKPTDSRINFDSHEPLQSVTNKIPGANKEINLLREEHVCLDDK  
GYVPSDSEIIYVSNIP LQSVIKQPHILEEEHASLEDKSSNSYSPEESSDSNDSFQAAADE  
LQKPVKEINLWKEDHIYLEDKSYKLGDFDVSYASHIPVQFVTDQSSVPVKEINLQKKDHN  
DLENKNCEVCGSEIKCHSCVHLQSEVDQPQVSYKEADLQKEEHVVMEEKTDQPSDSEMMY  
DSDVPFQIVVNQFPGSVKETHLPKVVLVDL VPGDSDYEVISDDIPLQLVTDPPQLTVKDI  
SCINTECIDIEDKSCDFFGSEVRCNCKASTPSMTNQCKETFKIINRKKDYIILGEPSCQS  
CGSEMNFNV DASQMTYESQGPDEKMVKYIDSEDKSCGYNGSKGKFNLEDTSHR TTHRL  
QKAHKEASLRKDP RNAGLKGKSCQSSASAVDFGASSKSALHRRADKKKRSKLKHRDLEVS  
CEPDGFEMNFQCAPPLPSD TDQPQETVKKRHPCKKVSSDLKEKNHDSQSSSVLKVD SVRN  
LKKAKDVIEDNPDEPVLEALPHVPPSFVGK TWSQIMREDDIKINALVKEFREGRFHCYFD  
DDCETKKVSSKGGKKVTWADLQ GKEDTAPTQAVSESDDIVCGISDIDDL SVALDKPCHRH  
PPAERP PKQKGRVASQCQTAKISHSTQTSCKNYPVMKRKIIRQEEDPPKSKCSRLQDDR K  
TKKKVKIGTVEFPASCTKVLKPMQPKALVCVLSSLNIKLEGEGLPFPKMRHHSWDNDIR  
FICKYKRNI FDYYEPLIKQIVIS PPLSVIVPEFERRNWVKIHFNRSNQNSSAGDNDADGQ  
GSASAPLMAVPARYGFNSHQGTS DSSLFLEESKVLHARELPKKRN FQLTFLNHDVVKISP  
KSVRNK LLESQSKKKIHGKRVTSSNKLGFPPKKVYKPIILQQKPRKASEKQSIWIRTKPS  
DIIRKYISKYSVFLRHRYQSRSAFLGRYLKKKSVVSRLKAKRTAKVLLNSSVPPAGAE  
ELSSAMANPPPKRPVRASCRVARRRKKTDES YHGRQKGPSTPVRAYDLRSSSCLQQRERM  
MTRLANKLRGNEVK

>sp|Q8IZN3|ZDH14\_HUMAN Probable palmitoyltransferase ZDHC14 OS=Homo sapiens GN=ZDHC14 PE=1 SV=1

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TGVFYLTLLVLILVTSGLFFAFDCPYLAVKITPAIPAVAGILFFFVMGTLRLTSFSDPGVL  
PRATPDEAADLERQIDIANGTSSGGYRPPPRTEKVIINGQTVKLKYCFTCKIFRPPRASH  
CSLCDNCVERFDHHCWPVWGNVGNRYRFFYMFILSLSFLTTFIFAFVITHVILRSQQTG  
FLNALKDSPASVLEAVVCFVSWSIVGLSGFHTYLISNQTTNEDIKGSWSNKRGENYN  
PYSYGNIFTNCCVALCGPISPSLIDRRGYIQPDTPQPAAPSNGITMYGATQSQSDMCDQD  
QCIQSTKFVLQAAATPLLQSEPSLTSDELHLPKPGGLTPCASLTLGPPTPPASMPNLAE  
ATLADVMPRKDEHMGHQFLTPEAPSPPRLLAAGSPLAHSRTMHVLGLASQDSLHEDSVR  
GLVKLSSV

>sp|Q8IUH5|ZDH17\_HUMAN Palmitoyltransferase ZDHC17 OS=Homo sapiens GN=ZDHC17 PE=1 SV=2

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IVKATQYGIYERCRELVEAGYDVRQPDKENVTLLHWAANNRIDLKYYISKGAIVDQLG  
GDLNSTPLHWATRQGHLSMVVQLMKYGADPSLIDGEGCSCIHLAAQFGHTSIVAYLIAKG  
QDVMMDQNGMTPLMWAAYRTHSVDPTRLLLTFFNVSVNLGDKYHKNTALHWAVLAGNTTV  
ISLLEAGANVDAQNIKGESALDLAKQRKNVWMINHLQEARQAKGYDNPSFLRKLKADKE  
FRQKVMLGTPFLVIWLVGFIADLNIDSWLIKGLMYGGVWATVQFLSKSFFDHSMHSALPL  
GIYLATKFWMYVTWFFFWNDLNLFIHLPFLANSVALFYNFGKSWKSDPGI IKATEEQK  
KKTIVELAETGSLDLSIFCSTCLIRKPVRSKHCGVCNRCIAKFDHHCWPVWGNVCGAGNHR  
YFMGYLFFLLFMICWMIYGCISYWGLHCETTYTKDGFWTYITQIATCSPWMFWMFLNSVF  
HFMWVAVLLMCQMYQISCLGITNERNMARRYKHFKVTTTSIESPFNHGCVRNIIIDFFEF  
RCCGLFRPVIVDWTRQYTIETYDQISGSGYQLV

>sp|Q5W0Z9|ZDH20\_HUMAN Probable palmitoyltransferase ZDHC20 OS=Homo sapiens GN=ZDHC20 PE=1 SV=1

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FFVMFVWSYWMTIFTSPASPSKEFYLSNSEKERYEKEFSQERQQEILRRAARALPIYTTS  
ASKTIRYCEKQCLIKPDRAHHCACDSCILKMDHHCWPVWNNCVGFSNYKFFLLFLLYSLL  
YCLFVAATVLEYFIKFWTNELTDTRAKFHVLFVFFVSAMFFISVLSLFSYHCWLVGKNRT  
TIESFRAPTFSYGPDGNFSLGCSKNWRQVFGDEKKYWLLPIFSSLGDGCSFPTRLVGMD  
PEQASVTNQNEYARSSGSNQPFPIKPLESESKNRLLDSESQWLENGAEEGIVKSGTNNHVT  
VAIEN

>sp|Q8IYP9|ZDH23\_HUMAN Palmitoyltransferase ZDHC23 OS=Homo sapiens GN=ZDHC23 PE=1 SV=3

MTQKGSMPVKKKKTEEPELEPLCCCEYIDRNGEKNHVATCLCDCQDLDEGCDRWITCKS  
LQPETCERIMDTISDRLRIPWLRGAKKVNISIIPPLVLLPVFLHVASWHFLLGVVLTSL  
PVLALWYYLTHRRKEQTLFFLSLGLFSLGYMYVFLQEVVPKGRVGPVQLAVLTCGLFL  
ILLALHRAKKNPYLSNPASGDRSLSSSQLECLSRKGQEKTKGFPGADMSGSLNNRTKD  
DPKGSSKMPAGSPTKAKEDWCAKQQLVRPARAWHCRICICVRRMDHHCWINSVCGESN  
HQAIFILALLIFLLTSVYGITLTDITICRDRSVFTALFYCPGVYANYSSALSFTCVWYSVI  
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>sp|Q9NYG2|ZDH3\_HUMAN Palmitoyltransferase ZDHC3 OS=Homo sapiens GN=ZDHC3 PE=1 SV=2

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VVLVMLIPSRDYVYSIINGIVFNLLAFLALASHCRAMLTDPGAVPKGNATKEFIESLQL  
KPGQVVYKCPKCCSIKPDRAHHCVCCKRCIRKMDHHCWPVWNNCVGENNQKYFVLFTMYIA

LISLHALIMVGFHFLHCFEEDWTKCSSFSPPTTVILLILLCFEGLFLIFTSMFGTQVH  
SICTDETGIEQLKKEERRWAKTKWMNMKAVFGHPFSLGWASPFATPDQ GKADPYQYVV  
>sp|Q86YA3|ZGRF1\_HUMAN Protein ZGRF1 OS=Homo sapiens GN=ZGRF1 PE=1 SV=3

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LESDRYLITVEEVKVAGAIGIVKQNVNKEAPELNSRTFISSGRSLGCQPSGLKRKFTGFQ  
GPRQVPKKMVIMESGESAASHEAKKTGPTIFSPFCMPPLFPTVGKDVNNILADPENIV  
TYKNRERNAMDFSSVSPSFQINPEVLCEENYFCSPVNSGNKLSDSLNTNEPVKRDSLAS  
HYSQVSNIRSKAQILALLKSESSSSCEELNSEMTEHFPQKQPQGS�KIATKPKYLIIQQE  
ECAEMKSTENLYQHQSSENTMRNKSRAWMYLSSQSSPIHSSTVDGNDTERKPKAQEDDVN  
SNLKDSLQKIIQFVETYAERKKYNVDQSVGNNDPSWNQEVKLEIPSFNESSSLQVTCS  
SAENDGILSESDIQEDNKIPFNQNDKGCIKGSVLIKENAEVNTCGTLEKEYEQSESSLP  
ELKHLQIESSNNSRISDDITDMISES KMDNESLNSIHESLSNVTQPFLEVTFNLNPFETS  
DTEESQESNKISQDSESWVKDILVNDGNSCFQKRSENTNCEEIEGEHLPFLT SVSDKPT  
VTFPVKETLPSQFCDKTYVGFDMGICKTENTGKEIEEYSDTLSNFESFKWTDVAVYGNKE  
DANKPIQEVRIYDFALPPNKS KGINMNLHIPHIQNQIAENSNLSEDAQPQPFILGSDL  
DKNDEHVLPTSSSDNSVQLLNTNQNHYECIALDKSNTHISNSLFYPLGKKHLISKDTEA  
HISEPEDLGKIRSPPDHVEVETAREGKQYWNPRNSSELSGLVNTISILKSLCEHSTALD  
SLEILKKKNTVFQQGTQQTYPDPSPEVRKPFITVVSPKSPHLHKDSQQLKEDEVELSE  
PLQSVQFSSSGSKEETAFAQAVIPKQIERKTCDPKPVEFQGHQVKG SATSGVMVRGHSSQL  
GCSQFPDSTEYENFMTETPELPSTCMQIDFLQVTSPEENISTLSPVSTFSLNSRDEDFMV  
EFSETSLKARTLPDDLHFLNLEGMKKSRSLEENLQRLSLLSRTQVPLITLPRTDGPPDL  
DSHSYMINSNTYESSGSPMLNLCEKSAVLSFSIEPEDQNETFFSEESREVNPGDVSLNNI  
STQSKWLKYQNTSQCNVATPNRVDKRITDGFFAEAVSGMHFRDTSERQSDAVNESSLDSV  
HLQMIKGMLYQQRQDFSSQDSVSRKKVLSLNLKQTSKTEEIKNVLG GSTCYNYSVKDLQE  
ISGSELCFPGSGQKIKSAYLPQRQIHIPAVFQSPAHYKQFTSCLIEHLNILLFGLAQNLQ  
KALSKVDISFYTSLKGEKLKNAENNVPSCHHSQPAKLMVKKEGPNKGRLFYTCDGPKAD  
RCKFFKWLEDVTPGYSTQEGARPGMVLSDIKSIGLYLRSQKIPLYEECQLLVKGFDFQR  
KQYGKLLKFTTVNPEFYNEPKTKLYLKL SRKERS SAYS KNDLWVVS KTLD FELDTFIACS  
AFFGPSSINEIEILPLKGYFPSNWPTNMVVHALLVCNASTELTTLKNIQDYFN PATLPLT  
QYLLTTSSPTIVSNKRVSKRKFIPPAFTNVSTKFELLSLGATLKLASELIQVHKLNDQA  
TALIIQIAQMASHESIEEVKELQTHTFPITIIHG VFGAGKSYLLAVVILFFVQLFEKSEA  
PTIGNARPWKLLISSSTNAVDRVLLGLLSLGFENFIRVGSVRKIAKPILPYSLHAGSEN  
ESEQLKELHALMKEDLTPTERVYVRKSIEQHKLGTNRTLLKQVRVVGVTCAACPFPCMND  
LKFPVVVLDECSQITEPASLLPIARFECEKLILVGDPKQLPPTIQGS DAAHENGLEQTLF  
DRLCLMGHKPILLRTQYRCHPAISAIANDLFYKGALMNGVTEIERSPLLEWLPTLCFYNV  
KGLEQIERDNSFHNVAEATFTLKLIIQSLIASGIAGSMIGVITLYKSQMYKLCHLLSAVDF  
HHPDIKT VQVSTVDAFQGAKEKIIILSCVRTRQVGFIDSEKRMNVALTRGKRHLLIVGNL  
ACLKNQLWGRVIQHCEGREDGLQHANYEPQLNHLLKDYFEKQVEEKQKKKSEKEKSKD  
KSHS

>sp|O95409|ZIC2\_HUMAN Zinc finger protein ZIC 2 OS=Homo sapiens GN=ZIC2 PE=1 SV=2

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KLNPGAHELSPGQSSAFTSQGP GAYPGSAAAAAAAAALGPHAAHVGSYS GPFPFNSTRDFL  
FRSRGFGDSAPGGGQHGLFGPGAGGLHHAHSDAQGHLLFPGLPEQHGP HGSQNVNLNGQMR  
LGLPGEVFGRSEQYRQVASPRTPYSAQLHNQY GPMNMNMGMNMAAAAAHHHHHHHHHP

GAFFRYMRQQCIKQELICKWIDPEQLSNPKKSCNKTFTMHVELVTHVSEHVGGPEQSNH  
VCFWEECPREGKPFKAKYKLVNHIRVHTGEKPFPCFPFGCGKVFARSENKIIHKRHTHTGE  
KPFQCEFEGCDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHESSPQ  
GSESSPAASSGYESTPPGLVSPSAEPQSSSNLSPAAAAAAAAAAAAAAVSAVHRGGGS  
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>sp|Q96T25|ZIC5\_HUMAN Zinc finger protein ZIC 5 OS=Homo sapiens GN=ZIC5 PE=1 SV=2

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GPPAHSQRLAAVAHLRLRDLGADPGVATTPLGPEHMAQASTLGLSPSQAFPAHPEAPAA  
AARAAALVAHPGAGSYPCGGSSGAQPSAPPPAPPLPPTSPPPPPPPPPPPALSGYTT  
TNSGGGSSGKGHSRDFVLRRDLSATAPAAAMHGAPLGGEQRSGTGSPQHPAPPPHSAGM  
FISASGTIAGPDGSGPALFPAHLDTPGAPGGHPHPLNGQMRLGLAAAAAAAAAELYGRA  
EPPFAPRSGDAHGYAVAAAAAALHGYGAVNLNLNLAAGPGLQHHAPPAP  
PPPPAPAQHPHQHHPHPLGAAGAFRLYMRQPIKQELICKWIDPELAGLPPPPPPPPPP  
PPPPAGGAKPCSKTFTMHVELVNHVTVEHVGGPEQSSHVCFWEDCPREGKPFKAKYKLVN  
HIRVHTGEKPFPCFPFGCGKVFARSENKIIHKRHTHTGEKPFCEFDGCDRKFANSSDRKK  
HSHVHTSDKPYCKIRGCDKSYTHPSSLRKHMKIHKSPPPSPGPLYSSVGTPTVGAPLS  
PVLDPARSHSSTLSPQVTNLNEWYVCQASGAPSHLHTPSSNGTTSETEDDEIYGNPEVVR  
TIH

>sp|Q96PE6|ZIM3\_HUMAN Zinc finger imprinted 3 OS=Homo sapiens GN=ZIM3 PE=2 SV=1

MNNSQGRVTFEDVTNFTQGEWQRLNPEQRNLYRDVMLENYSNLVSVGGGETTKPDVILR  
LEQGKEPWLEEEVLGSGRAEKNGDIGGQIWKPKDVKESLAREVPSINKETLTTQKGVEC  
DGSKKILPLGIDDVSSLQHYVQNNSHDDNGYRKLVGNNPSKFVGGQLKCNACRKLFSKKS  
RLQSHLRRHACQKPFECCHSCGRAFGKWKLDKHQKTHAERPYKCENCGNAYKQKSNLFQ  
HQMHTKEKPYQCKTCGKAFSWKSSCINHEKIHNAKSYQCNECEKSFRQNSTLIQHKKV  
HTGQKPFQCTDCGKAFIYKSDLVKHQRHTGEKPYKCSICEKAFSQKSNVIDHEKIHTGK  
RAYECDLCGNTFIQKKNLIQHKKIHTGEKPYECNRCGAFFQKSNLHSHQKTHSGERTYR  
CSECGKTFIRKLNLSLHKKTHTGQKPYGCSECGKAFADRSYLVRHQKRIHSR

>sp|Q969J2|ZKSC4\_HUMAN Zinc finger protein with KRAB and SCAN domains 4 OS=Homo sapiens  
GN=ZKSCAN4 PE=1 SV=1

MAREPRKNAALDAQSAEDQTGLLTVKVEKEEASALTAEVRAPCSPARGPERSRQRFRGFR  
YPEAAGPREALSRLRELCGQWLQPEMHSKEQILELLVLEQFLTILPGNLQSWVREQHPES  
GEEVVVLEYLERLDEPAPQVPVGDQGQELLCKMALLTQTQGSQSSQCQPMKALFKHE  
SLGSQPLHDRVLPVPLAQQGCCREDAMVASRLTPGSQGLLKMEDVALTLTPGWTQLDSS  
QVNLYRDEKQENHSSLVSLGGEIQTKSRDLPPVKKLPEKEHGKICHLREDIAQIPTHAEA  
GEQEGRLQRKQKNAIGSRRHYCHEGKSFAQSSGLTKHRRHTGEKPYECEDCGKTFIGS  
SALVIHQRVHTGEKPYECECGKVFSSHSSNLIKHQRHTHTGEKPYECDDCGKTFSSQSCSL  
EHHKIHTGEKPYQCNMCGKAFFRRNSHLLRHQRIHGDKNVQNEHGSEWESQGRTESQWEN  
TEAPVSYKNECERSFTRNRSLEHQQIHTGEKPYQCDTCGKGFTRTSYLVQHQRSHVGK  
KTLSQ

>sp|Q15776|ZKSC8\_HUMAN Zinc finger protein with KRAB and SCAN domains 8 OS=Homo sapiens  
GN=ZKSCAN8 PE=1 SV=2

MAEESRKPSAPSPDQTPEEDLVIVKVEEDHGWDQESSLHESNPLGQEVFRLRFRQLRYQ  
ETLGPREALIQLRALCHQWLRPDNLTKQILELLVLEQFLTILPEELQTLVKEHQLENGE  
EVTTLLEDLERQIDILGRPVSARVHGHRVLWEEVVHSASAEPPNTQLQSEATQHKSPVP

QESQERAMSTSQSPTRSQKGSSGDQEMTATLLTAGFQTLEKIEDMAVSLIREEWLLDPSQ  
KDLCDNRNRPENFRNMFSLGGETRSENRELASKQVISTGIQPHGETAAKCGDVIRGLEHE  
EARDLLGRRLERQGNPTQERRHKCECGKSFAQSSGLVRHWRIHTGEKPYQCNVCGKAFS  
YRSALLSHQDIHNKVKRYHCKEKGKAFSQTGLILHQRIHTGEKPYQCNQCGKAFSQSAG  
LILHQRIHSGERPYPECNECGKAFSSHSLIGHQRIHTGEKPYECDECGKTFRRSSHLIGH  
QRSHTGEKPYKNECGRAFSQKSGLIEHQRIHTGERPYKCKEKGKAFNGNTGLIQHLRIH  
TGEKPYQNECGKAFIQRSSLRHQRIHSGEKSESISV

>sp|Q9H898|ZMAT4\_HUMAN Zinc finger matrin-type protein 4 OS=Homo sapiens GN=ZMAT4 PE=1  
SV=1

MKSSDIDQDLFTDSYCKVCSAQLISESQRVAHYESRKHASKVRLYYMLHPRDGGCPAKRL  
RSENGSDADMVDKNKCTLCNMSFTSAVVADSHYQGKIHAERLKLGLGEKTPKTTATPL  
SPLKPPRMDTAPVVASPYQRRSDRYCGLCAAWFNNPLMAQQHYDGKKHKKNAARVALLE  
QLGTTLDMGELRGLRRNYRCTICSVSLNSIEQYHAHLKGSKHQTNLKNK

>sp|Q9H0C1|ZMY12\_HUMAN Zinc finger MYND domain-containing protein 12 OS=Homo sapiens  
GN=ZMYND12 PE=2 SV=3

MNVIYPLAVPKGRRLCCEVCEAPAERVCAACTVTYYCGVVHQKADWDSIHEKICQLLIPL  
RTSMPFYNSEERQHGLQQLQQRKYLIEFCYTIQKYLFEKGHEDAVPAALQSLRFRVK  
LYGLSSVELVPAYLLAEASLGLGRIVQAEYLFQAQWTVLKSTDCSNATHSLLHRNLGL  
LYIAKKNYEEARYHLANDIYFASCAFGTEDIRTSGGYFHLANIFYDLKKLDLADTLYTKV  
SEIWHAYLNNHYQVLSQAHIQQMDLLGKLFENDTGLDEAQEAIRILTSILNIRESTSD  
KAPQKTIFVLKILVMFYLLMMNSSKAQEYGMRALSLAKEQQLDVHEQSTIQELLSLISTE  
DHPIT

>sp|Q14202|ZMY3\_HUMAN Zinc finger MYM-type protein 3 OS=Homo sapiens GN=ZMY3 PE=1 SV=2

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DTPAGLEKDPGVLDGATELLGLGGLLYKAPSPPEVDHGPETLAWDAGDQTLPEPGGGQT  
PEVVPDPGAGANSCSPEGLLEPLAPDSPITLQSPHIEEETTSIATARRGSPGQEEELP  
QGGPQSPNAPPSPSVGETLGDGINSSQTKPGGSSPPAHPSLPGDGLTAKASEKPPERKRS  
ERVRRAEPPKPEVDSTESIPVSEDESDAMVDDPNDEDFVFPFRPRRSPRMSLRSSVSQRA  
GRSAVGTKMTCAHCRTPQKGQTAYQRKGLPQLFCSSSCLTTFSSKPSGKKTCTFCKKEI  
WNTKDSVVAQTGSGGSFHEFCTSVCLSLYEAQQQRPIPQSGDPADATRCSCQKTGEVLH  
EVSNGSVVHRLCSDSCFSKFRANKGLKTNCCDQCGAYIYTKTGSPGPELLFHEGQQRFC  
NTTCLGAYKKNTRVYPCVWCKTLCKNFEMLSHVDNRNGKTSFCSLCCTTSYKVKQAGLT  
GPPRPSFCRRSLSDPCYYNKVDRTVYQFCSPSCWTKFQRTSPEGGIHLSCHYCHSLFSG  
KPEVLDWQDQVFQCCRDCCEDFKRLRGVVSQCEHCRQEKLLEKLRFSGVEKSFCEGCG  
VLLYKQDFTKKLGLCCITCTYCSQTCQRGVTEQLDGSTWDFCSEDCKSKYLLWYCKAARC  
HACKRQGKLETHIWRGQIRHFCNQQLRFYSQQNQPNLDTQSGPESLLNSQSPESKPQ  
TPSQTKVENSNTVRTPEENGNGKIPVKTRSAPTAPTPPPPPPPATPRKNKAAMCKPLMQ  
NRGVSCKVEMKSGSQTEWKPQVIVLPVPIFVPVPMHLYCQKVPVPFSMPIPVVPVPM  
FLPTTLESTDKIVETIEELKVKIPSNPLEADILAMAEMIAEAEELDKASSDLCDLVSNQS  
AEGLLEDCLDFGPARDVDLAMA VKMANVLEDPGQDLEADFPKNPLDINPSVDLFLDCGLV  
GPEDVSTEQDLPRTRMGQKRLVLSSECSRDSMSSQPSCTGLNYSYGVNAWKCVQSKYA  
NGETSKGDELRFPGPKMRIKEDILACSAELNYGLAQFVREITRPNGERYEPDSIYYLCL  
GIQQYLLENNRMVNIFTDLYLTFVQELNKSLSSTWQPTLLPNNTVFSRVEEHLWECKQL  
GVYSPFVLLNTLMFNTKFFGLQTAEHMQLSFTNVVRQSRKCTTPRGTTKVVSIRYYAP

VRQRKGRDTGPGKRKREDEAPILEQRENRMNPLRCPVKFYEFYLSKCPESLRTNDFVYL  
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>sp|Q5VZL5|ZMYM4\_HUMAN Zinc finger MYM-type protein 4 OS=Homo sapiens GN=ZMYM4 PE=1 SV=1

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GSENSLLDEDDYFLNSGDLA GIPVVGSDNEDEQDFSSKDNLVSSIHTD DSLEVERRVTQH  
ESDNENEIQIQNK LKKDFPKQFDQVSVFKSIRKDFSLVRENSKETFSGKEKNRDLTYERE  
KRLDKPHKDLDSRLKSSFFDKAANQVEETLH THLPQT PETNFRDSSYPFANKESIGSELG  
NSFASNIRIKEEPLDDEYDKAMAPQQGLLDKIKDEPDNAQEYSHGQQKTQEGELKISAV  
FSVSGSPLAPQLTTGFQPSLASSGMNKMLPSVPATAVRVSCSGCKKILQKGQTAYQRKGS  
TQLFCSTLCLTGYTVPPARPPPPLTKKTCSSCSKDILNPKDVISAQFENTTTSKDFCSQS  
CLSTYELKKKPIVTINTNSISTKSCMCQKNAVIRHEVNYQNVVHKLCSDACFSKFRSANN  
LTMNCCENCGGYCYSGSGQCHMLQIEGQSKKFCSSS CITAYKQKSAKITPCALCKSLRSS  
AEMIEN TNSLGKTELFCSVNCL SAYRVKMVTSAGVQVQCNSCKTSAIPQYHLAMSDGSIR  
NFCYSYSCVVA FQNLFNKPTGMNSSV VPLSQGQVIVSIPTGSTVSAGGGSTSAVSPTS ISS  
SAAAGLQRLAAQSQHVGFA RSVVKLKQCQHCNRLFATKPELLDYKGKMFQFCGKNCSDEYK  
KINNV MAMCEYCKIEKIVKETVRFSGADKSF CSEGCKLLYK HDLAKRWGNHCKMCSYCLQ  
TSPKL VQNNLGKVEEFCEECMSKYTVLFYQMAKCDACKRQGKLS ESLKWRGEMKHFCN  
LLCILMFCNQSVCDPPSQNNAANISMVQAASAGPPSLRKDSTPVIANV VSLASAPAAQP  
TVNSNSVLQGA VPTVTAKIIGDASTQTDAL KLPPSQPPRL LKNKALLCKPITQT KATSCK  
PHTQNKECQTEDTPSQPQIIVVPVPVPVFP IPLHLYTQYAPVPFGIPVPM PVPMLIPSS  
MDESKVTESIEDIKEKLPTH PFADLLEMAEMIAEDEEKKTLSQGESQTSEHELFLDTK  
IFEKDQGSTYSGDLESEAVSTPHSWEELNHYALKSNAVQEADSELKQFSKGETEQDLEA  
DFPSDSFDPLNKGQGIQARSRRRRHRDGFPPRRRGRKKSIVAVEPRSLIQGAFQGCSV  
SGMTLKMYGVNAWKNWVQWKNAKEEQGD LKCGGVEQASSPRSDPLGSTQDHALSQESS  
EPGCRVRSIKLKEDILSCTFAELSLGLCQFIQEVRRPNGEKYDPDSILYLCLGIQQYLFE  
NGRIDNIFTEPYSRFMIELTKLLKIWEPTILPNGYMF SRIEEHLWECKQLGAYSPIVLL  
NTLLFFNTKYFQLKNVTEHLKLSFAHVMRRTRTLKYSTKMTYLRFFPPLQKQESEPDKLT  
VGKRKRNEDEVPVGVEMAENTDNPLRCPVRLYEFYLSKCS ESVKQRNDFVYLQPERSCV  
PNSPMWYSTFPIDPGTLDTMLTRILMVREVHEELAKAKS EDSDELSD

>sp|O95789|ZMYM6\_HUMAN Zinc finger MYM-type protein 6 OS=Homo sapiens GN=ZMYM6 PE=1 SV=2

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QQLNPGFQLSFASSGPSVLLPSVPAVAIKVFCSGCKKMLYKGQTAYHKTGSTQLFCSTRC  
ITRHSSPACLPPPPKKTCTNCSKDILNPKDVI TTRFENSYP SKDFCSQSCLSSYELKKKP  
VVTIYTKSISTKSCMCQKNADTRFEVKYQNVVHGLCSDACFSKFHSTNNLTMNCCENCGS  
YCYSSSGPCQSQKVFSSTSVTAYKQNSAQIPPYALGKSLRPSAEMIETTNDSGKTELFCS  
INCL SAYRVKTVTSSGVQV SCHCKTSAIPQYHLAMSN GTIYSFCSSSCVVA FQNVFSKP  
KGTNSSAVPLSQGQVVVSPSSRS AVSIGGNTSAVSPSSIRGSAAASLQPLAEQSQQVA  
LTHTVVKLKQCQHCNHLFATKPELLFYKGKMF LFCGKNCSDEYKKKNKVAMCDYCKLQKI  
IKETVRFSGVDPFCSEVCKFLSARDFGERWGN YCKMCSYCSQTS PNLVENRLEGKLEEF  
CCEDCMSKFTVLFYQMAKCDGCKRQGKLS ESIKWRGNIKHFCNLFCVLEFCHQQIMNDCL  
PQNKVNISKAKTAVTELPSARTDTTPVITSVMSLAKIPATLSTGNTNSVLKGAVTKEAAK  
IIQDESTQEDAMKFPSSQSSQPSRLLKNKGISCKPVTQT KATSCKPHTQHKECQTDLPMP  
NEKND AELDSPPSKKKRLGFFQTYDTEY LKVGFIICPGSKESSPRPQC VICGEILSSEN M  
KPANLSHHLKTKHSELENKPVDFFEQKSLEMECQNSSLKKCLLVEKSLVKASYLIAFQTA

ASKKPFSAEELIKPYLVEMCSEVLGSSAGDKMKTIPLSNVTIQHRIDELSADIEDQLIQ  
KVRESKWFALQIDESSEISNITLLLCYIRFIDYDCRDVKEELLFCIEMPTQITGFEIFEL  
INKYIDSKSLNWKHCVGLCTDGAASMTGRYSLKAKIQEVAMNTAAFTHCFIHRERLVAE  
KLSPCLHKILLQSAQILSFIKSNALNSRMLTILCEEMGSEHVSPLHAEVRWISRGRMLK  
RLFELRHEIEIFLSQKHSDLAKYFHDDEEWVGKLAYLSDIFSLINELNLSLQGTLTTFNL  
CNKIDVFKRKLKMWLKRTQENDYDMFPSFSEFSNSSGLNMTDITRIIFEHLEGLSQVFS  
CFPPEQDLRSGNLWIHPFMNHQNNLTDFFFFEKLTELSSDLGLQALFKSVSVTQFWINA  
KTSYPELHERAMKFLPFSTVYLCDAAFSALTESKQKNLLGSGPALRLAVTSLIPRIEKL  
VKEKE

>sp|Q9UJU3|ZNF112\_HUMAN Zinc finger protein 112 OS=Homo sapiens GN=ZNF112 PE=2 SV=2

MTKFQEMVTFKDVAVVFTEEELGLDSVQRKLYRDVMLENFRNLLVAHQPFKPDLSQL  
EREKLLMVETETPRDGCGRKNQKMEISQEVTVSYFSPKELSSRQTWQASAGGLIRCQ  
DFLKVFQGKNSQLQEQGNSLGQVWAGIPVQISEDKNYIFTHIGNSNYIKSQGYPSWRAH  
HSWRKMYLKESHNYQCRCQKISMKNHFCDCSVSWLSHHNDKLEVHRKENYSCHDCGEDI  
MKVSLLNQESIQTTEKPYCTGYRKAFSNDSSSEVHQFHLEGKPYTYSSCGKGCNYSSL  
LHIHQNIEREDDIENSHLSYQVRVHTEKPKCKGEYGENFNHCSPLNTYELIHTGEMSYR  
HNIYEKAFSHSLDLSIFRVHTRDEPHEYEENENVFNQSSCLQVHQKIHTEEKLYTDIEY  
GKSFICSSNLDIQHRVHMEENSYNSEECGNGFSLASHFQDLQIVHTKEQPYKRYVCSNSF  
SHNLYLQGHPKIHIGEKPRKEHGNGFNWSSKLKDHQRVHTGQKPYKCNICGKGFNHRSVL  
NVHQRVHTGEKPYKCEECCKGFSRSSLQAHRVHTGEKPYKCEECCKGFSRSSLQAHRVHT  
RVHTGEKPYKCEECCKGFSRSSLQAHRVHTGEKPYKCEECCKGFSRSSLQAHRVHT  
GEKPYKCEECCKGFSKASTLLAHRVHTGEKPYKCEECCKGFSRSSLQAHRVHTGEKPYKCE  
YICEVCGKGFSSRAYLQGHQVRVHTKPYKCEMCGKGFSSRAYLQGHQVRVHTGEKPYKCE  
VCTKGFSESSRLQAHRVHTGEKPYKCEMCGKGFSSRAYLQGHQVRVHTGEKPYKCEVCGK  
GFSQRSNLQAHRVHTGEKPYKCDACGKGFSSRAYLQGHQVRVHTGEKPYKCEVCGK  
SENLRNEDSVLF

>sp|P52740|ZNF132\_HUMAN Zinc finger protein 132 OS=Homo sapiens GN=ZNF132 PE=2 SV=2

MALPSPQVLMGLPALLMGAQHTSWPCGSAVPTLKSMTFEDVAVYFSQEEWELLDAAQR  
HLYHSMLENLELVTSLGSHWGEVGEAHPKQNVSEVLQVRIPNADPSTKKANSCDMCG  
PFLKDILHLAEHGTQSEKPYTCGACGRDFWLNANLHQHQKEHSGGKPFWRWKDRDALM  
KSSKVHLSNPFTCREGGKVLGSCDLLQLQAVDSGQKPYSNLQQLPEVCTTQKLFECN  
CGKAFKSSSTLPNHLRTHSEEIPFTCPTGGNFLEEKSIILGNKKFHTGEIPHVCKEKGKAF  
SHSSKLKHKQFHTVEKYYECIACGKTFNHKLTFVHHQRIHSGERPPECDECGKAFSNRS  
HLIRHEKVHTGERPFECCKGRAFSQSSNFLRHQKVHTQVRPYECSQCGKSFSSSALI  
HWRVHTGERPYECSECGRAFNNNSNLAHQKVHTGERPFECSECGRDFSQSSHLLRHQKV  
HTGERPFECDCGKAFFSSSTLIHQKVHTGQRPYECSECKSFSSSSTLIHQWRIHTGE  
KPYECSECGKAFAHSSSTLIHQWRIHTGERPYECSECKSFSSSSTLIHQWRIHTGE  
CSECGKFFSRKSSSLCHWRVHTGERPYECSECGRAFSSNSHLVRHQRVHTQERPYECIQ  
GKAFFSERSTLVRHQKVHTRETRYECSQCGKLFSLCNLAQHKKIHT

>sp|P52741|ZNF134\_HUMAN Zinc finger protein 134 OS=Homo sapiens GN=ZNF134 PE=2 SV=2

MTLVTAGGAWTGPCWHEVKDEESSSEQSISIAVSHVNTSKAGLPAQTALPCDICGPILK  
DILHLDEHGTTHGLKLHTCGACGRQFWFSANLHQYQKCYSEIQLRRDKSEASIVKNCT  
VSKEPHPEKPFCKEEQKNFQATLGGCQQAIIHKKRTHRSTESGDAFHGEQMHYKCE  
CGKAFFSRKDTLVQHQRHSGEKPYECSECGKAFFSRKATLVQHQRHSGEKPYECSECGKT

FSRKDNLTHQKRIHTGEMPYKCEGKYFSHNSLIVHQRVHNGARPYKSCDCGKVFHRK  
STLVQHESIHTGENPYDCSDCGKSFGHKYTLIKHQRIHTESKPFECIECGKFFSRSSDYI  
AHQRVHTGERPFVCSKCGKDFIRTSHLVRHQRVHTGERPYECSECGKAYSLSSHLNRHQK  
VHTAGRL

>sp|P52737|ZN136\_HUMAN Zinc finger protein 136 OS=Homo sapiens GN=ZNF136 PE=1 SV=1

MDSVAFEDVDVNFTQEEWALLDPSQKNLYRDVMWETMRNLASIGKKWKDQNIKDHYKHRG  
RNLRSHTMLERLYQTKDGSQRGGIFSQFANQNLSKKIPGVKLCESIVYGEVSMGQSSSLNRH  
IKDHSHEPKKEYQEYGEKPDTRNQCKPSSSHHSFRTHEI IHTGEKLYDCKEKGKTFSSL  
KRIRRHIIITHSGYTPYKCKVCGKAFDYPSSRFRTHERSHTGEKPYECQECGKAFTCITSVR  
RHMICKHTGDGPYKCKVCGKPFHLSFSFQVHERIHTGEKPFCKQCGKAFSCSPTLRIHER  
THTGEKPYECKQCGKAFSYLPRLRLHERIHTGEKPFVCKQCGKAFRSASTFQIHERTHTG  
EKPYECKECGEAFSCIPSMRRHMIKHTGEGPYKCKVCGKPFHLSFPRIHERTHTGEKPY  
VCKHCGKAFVSSTSIRIHERTHTGEKPYECKQCGKAFSYLSFRTHEMIHTGEKPFECKR  
CGKAFRSSSSFRLHERTHTGQKPYHCKEKGKAYSCRASFQRHMLTHAEDGPPYKCMWESL

>sp|Q9UQR1|ZN148\_HUMAN Zinc finger protein 148 OS=Homo sapiens GN=ZNF148 PE=1 SV=2

MNIDDKLEGLFLKCGGIDEMQSSRTMVVMGGVSGQSTVSGELQDSVLQDRSMPHQEILAA  
DEVLQESEMRRQDMISHDELMVHEETVKNDEEQMETHERLPQGLQYALNVPISVKQEITF  
TDVSEQLMRDKKQIREPVDLQKKKKRQKRSKILTNEDGSLGLKTPKSHVCEHCNAAF  
RTNYHLQRHVF IHTGEKPFQCSQCDMRFIQKYLLQRHEKIHTGEKPFRCDECGMRFIQKY  
HMERHKKRTHSGEKPYQCEYCLQYFSRTDRVLKHKRMCHENHDKKLNRCAIKGGLTSEED  
SGFSTSPKDNSLPKKKRQKTEKSSGMDKESALDKSDLKKDKNDYLPYSSSTKVKDEYM  
VAEYAVEMPHSSVGGSHLEDASGEIHPPKLVLKKINSKRSLKQPLEQNQTISPLSTYEEES  
KVSKYAFELVDKQALLDSEGNADIDQVDNLQEGPSKPVHSSTNYDDAMQFLKKKRYLQAA  
SNNREYALNVGTIASQPSVTQAAVASVIDESTTASILESQALNVEIKSNHDKNVIPDEV  
LQTLDDHYSKANGQHEISFSVADTEVTSSISINSSEVPEVTPSENVGSSSQASSSDKAN  
MLQEYSKFLQALDRTSQNDAYLNSPSLNFVTDNQTLPNQPAFSSIDKQVYATMPINSFR  
SGMNSPLRTPDKSHFGLIVGDSQHSFPFSGDETNGHASATSTQDFLDQVTSQKKAEPV  
HQAYQMSSFEQPFAPYHGSRAGIATQFSTANGQVNLRGPGTSAEFSEFPLVNVNDNRAG  
MTSSPDATTGQTFG

>sp|Q15697|ZN174\_HUMAN Zinc finger protein 174 OS=Homo sapiens GN=ZNF174 PE=1 SV=1

MAAKMEITLSSNTEASSKQERHIIAKLEEKRGPPQKNCPPDPELCRQSFRRFCYQEVSGP  
QEALSQRLQLCRQLPELHTKEQILELLVMEQFLTILPPEIQARVRHRCPMSSKEIVTL  
VEDFHRASKKPKQWVAVCMQGGKVLLEKTGSQLGEQELPDFQPQTTPRRDLRESSPAEPSQ  
AGAYDRLSPHHWEKSPLLEPTPKLAGTEAPMRSDNKENPQQEGAKGAKPCAVSAGRSK  
GNGLQNPEPRGANMSEPRLSRRQVSSPNAQKPFQHYQRHCRVEYISSPLKSHPLRELKKS  
KGGKRSLSNRLQHLGHQPTRSAKKPYKCDDCGKSFTWNSSELKRHKRVHTGERPYTCGECG  
NCFGRQSTLKHQRIHTGEKPYQCGQCGKSFRQSSNLHQHRLHHGD

>sp|Q13360|ZN177\_HUMAN Zinc finger protein 177 OS=Homo sapiens GN=ZNF177 PE=1 SV=4

MAAGWLTTWSQNSVTFQEVAVDFSQEEWALLDPAQKNLYKDVMLENFRNLASVGYQLCRH  
SLISKVDQEQKLTDERGILQGCADWETQLKPKDTIAMQNIPGGKTSNGINTAENQPGEH  
SLECNHCGKFRKNTRFICTRYCKGEKCYKIKYSKVFNHPSTLRSHVSIHIGKTLFTD  
CRKAFNQESSLRKHLRTPTGQKFQYEQCDMSFSLHSSCSVREQIPTGEKGDECSYDKI  
SPLSVHTKTGSVEEGLECNHEKTFDPLSLQNCVRTHSGEMPYECSDCGKAFIFQSSLK  
KHMRSHTEKPYECDHCGKSFSQSSHLNVHKKRTHTEKPYDCKEKGKAFVTPSSLQKHVR



THTGEKPYECSDCGKAFIDQSSLLKKHTRSHTGEKPYECNQCGKSFSTGSYLIVHKRTHTG  
EKTYECKECGKAFRNSSCLRVHVRTHTGEKPYKCIQCEKAFSTSTNLIMHKRIHNGQKLH  
E

>sp|075820|ZN189\_HUMAN Zinc finger protein 189 OS=Homo sapiens GN=ZNF189 PE=1 SV=2  
MASPSPPPESKGLLTFEDVAVFFTQEEWDYLDPAQRSLYKDVMMENYGNLVSLDVLNRDK  
DEEPTVKQEIEEIEEEVEPQGVIVTRIKSEIDQDPMGRETFELVGRLDKQRGIFLWEIPR  
ESLTQEQRMFRENTNIIRKRPNSEEKCHKCEECGKGFVRKAHFIQHQRVHTGEKPFQCNE  
CGKSFSRSSFVIEHQRIHTGERPYECNYCGKTFSVSSTLIRHQRIHTGERPYQCNQCKQS  
FSQRRSLVKHQRIHTGEKPHKCSDCGKAFSWKSHLIEHQRTHTGEKPYHCTKCKKSFSRN  
SLLVEHQRIHTGERPHKCGECGKAFLSTYLIQHKKIHTGEKPFLCIECGKSFSRSSFLLI  
EHQRIHTGERPYQCKEKGKSFSQLCNLTRHQRIHTGDKPHKCEECGKAFSRSSGLIQHQR  
IHTREKTYPYNETKESFDPNCSLVIQQEVYPKEKSYKCDECGKTFSVSAHLVQHQRHTG  
EKPYLCTVCGKSFSRSSFLLIEHQRIHTGERPYLCRQCGKSFSQLCNLIRHQGVHTGNKPH  
KCDECGKAFSRNSGLIQHQRHTGEKPYKCEKCDKSFSQQRSLVNHQKIHAEVKTQETHE  
CDACGEAFNCRISLIQHKLHTAWMQ

>sp|095125|ZN202\_HUMAN Zinc finger protein 202 OS=Homo sapiens GN=ZNF202 PE=1 SV=4  
MATAVEPEDQDLWEEEGILMVKLEDDFTCRPESVLQRDDPVLETSHQNFRFRFYQEASP  
REALIRLRELCHQWLRPERRTKEQILELLVLEQFLTVPGLQSWVRGQRPESGEEAVTL  
VEGLQKQPRRPRRWTVHVHGQEVLSSETVHLGVPEPSPNELQDPVQSSTPEQSPEETTQ  
SPDLGAPAEQRPHQEEELQTLQESEVPVPEDPDLPAERSSGDSEMVALLTALSQGLVTFK  
DVAVCFSQDQWSDLPTQKEFYGEYVLEEDCGIVVLSFPIRPDEISQVREEEPWVPDI  
QEPQETQEPEILSFTYTGDRSKDEEECLEQEDLSLEDIHRPVLGEPEIHQTPDWEIVFED  
NPGRLNERRFGTNISQVNSFVNLRETTVPVHPLLGRHHDCSVCGKSFTCNSHLVRHLRHT  
GEKPYKCMCEGKSYTRSSHLARHQKVHKMNAPYKYPLNRKNLEETSPVTQAERTPSVEKP  
YRCDDCGKHFRWTSDLVRHQRTHTGEKPPFCTICGKSFSQKSVLTTHQRIHLGGKPYLCG  
ECGEDFSEHRRYLARHKTHAAEELYLCSECGRCFTHSAAFAKHLRGHASVRPCRCNECGK  
SFSRRDHLVRHQRTHTGEKPFTCPTCGKSFSRGYHLIRHQRTHSEKTS

>sp|P98182|ZN200\_HUMAN Zinc finger protein 200 OS=Homo sapiens GN=ZNF200 PE=2 SV=2  
MMAAKVPMPPKPKQSFILRVPPDSKLGQDLLRDATNGPKTIHQLVLEHFLTFLPKPSLV  
QPSQKVKETLVIMKDVSSSLQNRVHPRPLVKLLPKGQKEQETVSLYKANPEELVVFED  
LNVFHCQEECVSLDPTQQLTSEKEDDSSVGEMMLLAVNGSNPEGEDPEREPVENEDYREK  
SSDDDEMDSSLVSQPPDNQEKERLNTSIPQKRKMRNLLVTIENDTPLEELSKYVDISII  
ALTRNRRTRRWYTCPLCGKQFNESSYLISHQRTHTGEKPYDCNHCGKSFNHKTNLNKH  
IHTGEKPYSCSQCGKNFRQNSHRSRHEGIIHREKIFKCECGKTFPKNEEFVLHLQSHA  
ERPYGCKKCGRRFGRLSNCTRHEKTHSACKTRKQK

>sp|043345|ZN208\_HUMAN Zinc finger protein 208 OS=Homo sapiens GN=ZNF208 PE=2 SV=2  
MGS�TRFDVAIEFSLEEWQCLDTAQQLYRNVMLENYRNVLFLGIAAFKPDLIIFLEEGK  
ESWNMKRHEMVEESPVICSHFAQDLWPEQGIEDSFQKVIILRRYEKCGHENLHLKIGYTNV  
DECKVHKEGYKNLQSLTTTQSKVFQRGKYANVFHKCSNSNRHKIRHTGKKHLQCKEYVR  
SFCMLSHLSQHKRIYTRENSYKCEEGKAFNWSSTLTYYKSAHTGEKPYRCKEKGKAFSK  
FSILTKHKVIHTGEKSYKCEECGAFNQSAILTCHKIHTGEKPNKCEECGKAFSKVSTL  
TTHKAIHAGEKPYKCKEKGKAFSKVSTLITHKAIHAGEKPYKCKEKGKAFSKFSILTKHK  
VIHTGEKPYKCEECGKAYKWPSTLSYHKKIHTGEKPYKCEECGKGFSMFILTKHEVIHT  
GEKPYKCEECGKAFNWSNLMEHKKIHTGETPYKCEECGKGFSMFILTKHKVIHNGEKP

YKCEECDKATHAGEKPYKCEECGKAFNWSSNLMEHKRIHTGEKPYKCEECGKSFSTFSIL  
TKHKVIHTGEKPYKCEECGKAYKWSSTLSYHKKIHTVEKPYKCEECGKAFNQSAILIKHK  
RIHTGEKPYKCEECGKTFSKVSTLTTHKAIHAGEKPYKCKEKGKTFIKVSTLTTHKAIHA  
GEKPYKCKEKGAFSKFSILTTHKVIHTGEKPYKCEECGKAFNWSSNLMEHKRIHTGEKP  
YKCEECGKSFSTFSVLTKHKVIHTGEKPYKCEECGKAYKWSSTLSYHKKIHTVEKPYKCE  
ECGKAFNRSAILIKHKRIHTDEKPYKCEECGKTFSKVSTLTTHKAIHAGEKPYKCKEKGK  
AFSKFSILTTHKVIHTGEKPYKCEECGKAYKWPSTLSYHKKIHTGEKPYKCEECGKGFSM  
FSILTKEVIHTGEKPYKCEECGKAFSWLSVFSKHKKTHAGEKFKYKCEACGKAYKSSSTL  
SYHKKIHTTEKPYKYEECGKFSTFSILTTHKVIHTGEKPYKCEECGKAFNWSSNLMEHK  
KIHTGETPYKCEECDKAFSWPSSLTEHKATHAGEKPYKCEECGKAFSWPSRLTEHKATHA  
GEEPYPYKCEECGKAFNWSSNLMEHKRIHTGEKPYKCEECGKSFSTFSILTTHKVIHTGEKP  
YKCEECGKAYKWSSTLSYHKKIHTVEKPYKCEECGKGFVMFSLAKHKVIHTGEKLYKCE  
ECGKAYKWPSTLRYHKKIHTGEKPYKCEECGKAFSTFSILTTHKVIHTGEKPYKCEECGK  
AFSWLSVFSKHKKIHTGEKL

>sp|Q13398|ZN211\_HUMAN Zinc finger protein 211 OS=Homo sapiens GN=ZNF211 PE=2 SV=2  
MLGFPPGRPQLPVQLRPQTRMATALRDPASGVSFTFEDVAVYFSWEEWDLLEAQKHLVFD  
VMLENFALTSSLGCWCGVEHEETPSEQRISGERVPQFRTSKEGSSSQNADSCEICCLVLR  
DILHLAEHQGTNCGQKLHTCGKQFYISANLQQHQHQHITEAPFRSYVDTASFTQSCIVHV  
SEKPFCTCREIRKDFLANMRFLHQDATQTGEKPNNSENKCAVAFYSGKSHHNWGKCSKAFSH  
IDTLVQDQRIITREGLFECSKCGKACTRRCNLIQHQQVHSEERPYPYECNECGKFFTYSSSF  
IIHQVRVHTGERPYACPECGKSFQIYSLNSHRKVHTGERPYECGECGKSFQSRNLMQHR  
RVHTGERPYECSECGKSFQNFSLIYHQVRVHTGERPHECNECGKSFSSSLIHHRLHT  
GERPYECSKCGKSFQSSSFSSHRKVHTGERPYVCGECGKSFSSSLNKNHQRVHTGERP  
VECSECSKSFCKSNLIKHLRVHTGERPYECSECGKSFQSSSLIQHRRVHTGKRPYQCS  
QCGKSFQCKSVLIQHQRVHIGEP

>sp|Q9UL58|ZN215\_HUMAN Zinc finger protein 215 OS=Homo sapiens GN=ZNF215 PE=2 SV=2  
MQPLSKLMAISKPRNLSLREQREVLADMSWQQETNPVVETHDSEASRQKFRHFQYLKVS  
GPHEALSQWLWELCLQWLRPEIHTKKQIIELLVLEQFLAILPEEVRTWVNLQHPNNSKDMV  
TLIEDVIEMLEDEDMPCDSALQMGSIKEKMKAGSRTGKQPVPVTFKDVVVEFSKEEWGQ  
LDSAVKNLYRNVMLNFRNLNSLRKAHLLSKPFESLKLESKKRWIMEKEIPRKTIFDMK  
SISGEESHGIVIMTRLTESGHPSSDAWKGENWLYRNQKKWDINLPQEAIPETIYTEED  
FECSENKKSFDINSVSSICAIQVGIPSRKGSPPKCDKFKTYFKFNLDVSGKQHSEYEGND  
LSLSTDIRHQKSHHTMNSYECYQCGKAFCRSSSLIRHQIHTGEKPYKCECGRFFNRRT  
NLTKHQKLHAEAKACTSNKCGKAFSKSEDSNNPTLHFGNNFYQCVNCGKSFNRSSSLIRH  
QMIHTGEKPFKCKECSKAFNRSSNLVKHQKLHTRDKS

>sp|Q9UK13|ZN221\_HUMAN Zinc finger protein 221 OS=Homo sapiens GN=ZNF221 PE=2 SV=3  
MISPSLELLHSLGCKFPEVEGKMTTFKEAVTFKDVAVVFTEEELGLLDPAQRKLYRDVML  
ENFRNLLSVGNQPFHQDTFHLGKEKFWKMKTTTSQREGNSGGKIQIEMETVPEAGPHEEW  
SCQQIWEQIASDLTRSQNSIRNSSQFFKEGDVPCQIEARLSISHVQQKPYRCNECKQSFS  
DVSFVLDLHQSHSGESHTCGECGKSFCYSPALHIHQRVHMGKCYKCDVCGKEFNQSSH  
LQTHQRVHTGEKPFKCGQCGKGFHSRSALNVHCKLHTGEKPYNCEECGKAFIHDSQLQEH  
QRIHTGEKPFKCDICGKSFRVRSRLNRHSMVHTGEKAFRCDTGKNFRQRSALNSHSMVH  
IEEKPYKCEQCGKGFICRRDFCKHQMVHTGEKPYNCKEKGKTFRWSSCLLNHQVHSGQK  
SFKCEECGKGFYTSRRSSHQRSHNGEKPYNCEECGKDYKRRLDLEFHQRVHTGERPYNC

KECGKSFGWASCLLKHQRLHSGEKPFKCEECGKRFTQSSQLHSHQTCHTGEKLYKCEQCE  
KGYNSKFNLDMHQVRVHGGERPYNCKEKGKSFGWASCLLKHQRLHSGEKPLKSGVWEEIYS  
EFTASFTSVSLCGRKAI

>sp|Q9UK10|ZN225\_HUMAN Zinc finger protein 225 OS=Homo sapiens GN=ZNF225 PE=2 SV=2

MTTLKEAVTFKDVAVVFTEELRLDLAQRKLYREVMLENFRNLLSVGHQSLHRDTFHFL  
KEEFWMMETATQREGNLGGKIQMEMETVSESGTHEGLFSHQWEQISSDLTRFQDSMVN  
SFQFSKQDDMPCQVDAGLSIIHVRQKPSEGRTCKKSFSDSVLDLHQQLQSREKSHTCDE  
CGKSFICYSSALRIHQRVHMGELYNCDCGKEFNQSSHLQIHQRIHTGEKPFKCEQCGKG  
FSRRSGLYVHRKLHTGVKPHICEKCGKAFIHDSQLQEHQRIHTGEKPFKCDICCKSFRSR  
ANLNRHSMVMHREKPFRCDCGKSFGKLSALNSHRMVHTGEKRYKCEECGKRFIYRQDLY  
KHQIDHTGEKPYNCKEKGKSFRAWAGLSRHRVRVHSGGETTFKCEECGKGFYTNSQRYSHQR  
AHSGEKPYRCEECGKGYKRRLDLDFHQVRVHRGEKPYNCKEKGKSFGWASCLLNHQRIHSG  
EKPFKCEECGKRFTQNSQLYTHRRVHSGEKPFKCEECGKRFTQNSQLYSHRRVHTGVKPY  
KCEECGKGFNSKFNLDMHQRVHTGERPYNCKEKGKSFWRASSILNHKRLHGDEKPFKCEE  
CGKRFTENSQLHSHQVRVHTGEKPYKCEKCGKSFRAWASTHLTHQRLHSREKLLQCEDCGKS  
IVHSSCLKDQQRDQSGEKTSKCEDCGKRYKRRLNLDTLSSLFLNDT

>sp|Q9UJW7|ZN229\_HUMAN Zinc finger protein 229 OS=Homo sapiens GN=ZNF229 PE=2 SV=3

METLTSRHEKRALHSQASAIQDREKIMSQEPLSFKDVAVVFTEEELELLDSTQRQLYQ  
DVMQENFRNLLSVGERNPLGDKNGKDTEYIQDEELRFFSHKELSSCKIWEEVAGELPGSQ  
DCRVNLQGKDFQFSEDAAPHQGWEGASTPCFPIENSLDSLQDGLIGLENQQFPAWRAIR  
PIPIQGSWAKAFVNQLGQDVQERCKNLDTEDTVYKCNWDDDSFCWISCHVDHRFPEIDKPC  
GCNCKRKDCIKNSVLHRINPGENGLKSNEYRNGFRDDADLPPHPRVPLKEKLCQYDEFSE  
GLRHSAGLNRHQVRPTGEKSVKSLERGRGVQRNTHIRNHPRAPVGDMPYRCDVCGKGFY  
KSVLLIHQGVHTGRRPYKCEECGKAFGRSSNLLVHQRVHTGEKPYKCECGKGFSSSVL  
QVHQLHTGEKPYTCSECGKGFCAKSALHKHQHIHPGEKPYSCGECGKGFSCSSHLSSHQ  
KTHTGERPYQCDKCGKGFSSHNSYLQAHQVRVHMGQHLKCNVCGKSFSYSSGLLMHQRLHT  
GEKPYKCECGKSFGRSSDLHIHQRVHTGEKPYKCECGKGFRRNSDLHSHQVRVHTGERPY  
VCDVCGKGFYSSDLLIHQRVHTGEKPYKCAECGKGFSSGLLIHQRVHTGEKPYRCQE  
CGKGFRTSSSLHKHQVRVHTGKKPYTCDQCGKGFSSYGSNLRTHQRLHTGEKPYTCCECGKG  
FRYGSGLLSHKRVHTGEKPYRCHVCGKGYSSSHLQGHQVRVHTGEKPYKCEECGKGFGRN  
SCLHVHQVRVHTGEKPYTCGVCGKGFSSYTSGLRNHQRVHVGGENPYK

>sp|A6NK53|ZN233\_HUMAN Zinc finger protein 233 OS=Homo sapiens GN=ZNF233 PE=2 SV=3

MTKFQEMVTFKDVAVVFTEELGLDLAQRKLYQDVMLENFRNLLSVGYQPFKLDVILQL  
GKEDKLMMETEQIQDGCSGHKQNEIDTLQEVRLRFLSYEDLICWQIWEQFTSKLTSNQ  
DLIINLQGKRKLLKQGDSPCQVWTGESSQVSEDENYVIKLQGESSNSIKNQELPLRTTW  
DFWRKMYLREPQNYQSRCQQIDVKNKLCCKDHCVRQRIAHQHDDHGVHKREKAFSHNCG  
KDCVKESSQHSIIQSGEQTSDENGKGLSVGSNLELHQQLHLRDKPHVNVEYGKIGYSSG  
LPRHQCFHIGEKCYRNGDSGEGFSQGSHLQPHQRVSTGENLYRCQVYARSSNQNSCLPSH  
ELTHPGEKLCTCGRCGKGFHSLDFDIHCVDSAGERACKCDVYDKGFSQTSQLQAHQRGH  
SRDKTYKWEVSDRIFNRNSGLHQRVHTGEKPYKCEVCDKGFASKASNLQAHQRIHTGEKPY  
KCDVCDKNFSRNSHLQAHQRVHTGEKPYKCDTCGKDFSQISHLQAHQRVHKGKPYKCET  
CGKGFSSSHLQDHQVHTGENPYKCDVCGKGFSSSHLQAHQRVHTGEKPYKCEECRKG  
FIWNSYLHVHQRIHTGEKPYKCGMCGKSFSQTSHLQAHQRVHTGEKPYKCFVCGKGFSSK  
SLSSDSSES

>sp|Q14590|ZN235\_HUMAN Zinc finger protein 235 OS=Homo sapiens GN=ZNF235 PE=2 SV=3

MTKFQEAVTFKDVAVAFTEEELGLLDSAQRKLYRDVMLENFRNLVSVGHQSFKPDMISQL  
EREKELWMKELQTRQKHSGRDNQEMATLHKAGLRCSLGEWSCWQIKRHIASKLARSQ  
DSMINIEGKSSQFPKHHDSPCQVQAGESIQASVDDNCLVNHIGDHSSIENQEFPTGKVP  
NSWSKIYLNQNYQRSCQTQMKNKLCIFAPYVDIFSCISHHDDNIVHKRDKVHSNSD  
CGKDTLKVSPLTQRSIHTGQKTYQGNECEEAFNDSSSELELHKQVHLGKKSPACSTHEKDT  
SYSSGIPVQQSVRTGKKRYWCHECGKGSQSSNLQTHQRVHTGEKPYTCHECGKSFNQSS  
HLYAHLPIHTGEKPYRCDSCGKFSRSTDNIHCRVHTGEKPYKCEVCGKGFTQRSHLQA  
HERIHTGEKPYKCGDCGKRFSNHLHTHQRVHTEEKPYKCECGKCFSLSFNLHSHQRV  
HTGEKPYKCEECGKGFSSASSFQSHQRVHTGEKPFRCNVCGKGSQSSYFQAHQRVHTGE  
KPYKCEVCGKRFNWSNLHNHQRVHTGEKPYKCEECGKGSQASNLQAHQSVHTGEKPFK  
CDACQKRFSQASHLQAHQRVHTGEKPYKCDTCGKAQSRSNLQVHQIHTGEKPFKCEEC  
GKEFSWSAGLSAHQRVHTGEKPYTCQQCGKGSQASHFHQTHQRVHTGERPYICDVCKGF  
SQRSHLIYHQRVHTGGNL

>sp|Q9UL36|ZN236\_HUMAN Zinc finger protein 236 OS=Homo sapiens GN=ZNF236 PE=2 SV=2

MGLCGLLERCWLHHPDGVLTNAENTNYAYQVPNFHKCEICLLSFPKESQFQRHMRDHE  
RNDKPHRCDQCPQTFNVEFNLTLHKCTHSGEDPTCPVCNKKFSRVASLKAHIMLHEKEEN  
LICSECGDEFTLQSQLAVHMEHRQELAGTRQHACKACKKEFETSSSELKEHMKTHYKIRV  
SSTRSYNRNIDRSGFTYSCPHCGKTFQKPSQLTRHIRIHTGERPFKCECGKAFNQKGAL  
QTHMIKHTGEKPHACAFCPAASFQKGNLQSHVQRVHSEVKNQPTYNCTECSCVFKSLGSL  
NTHISKMHMGGPQNSTSTETAHVLTATLFQTLPLQQTEAATSASSQPSSQAVSDVIQQ  
LLELSEPAPVESGSPQPGQQLSITVGINQDILQQALENSGLSSIPAAHPNDSCHAKTS  
APHAQNPDVSSVSNEQTDPTDAEKEKEQESPEKLDKKEKKMIKKKSPFLPGSIREENGVR  
WHVCPYCAKEFRKPSDLVRHIRIHTHEKPFKCPQCFRAFAVKSTLTAHIKTHTGIKAFKC  
QYCMKSFSTSGSLKVHIRLHTGVRPFACPHCDKKFRTSGHRKTHIASHFKHTELRKMHRQ  
RKPAKVRVGKTNIPVPDIPLQEPILITDLGLIQPIPKNQFFQSYFNNNFVNEADRPYKCF  
YCHRAYKKSCHLKQHRSHTGEKPFKCSQCGRGFVSAGVLKAHIRTHTGLKSFKCLICNG  
AFTTGGSLRRHMIHNDLRPYMCPYCQKTFKTSLNCKKHKMTHRYELAQQQLQQHQAASI  
DDSTVDQQSMQASTQMVEIESDELPQTAEVVAANPEAMLDPQHVVGTTEEAGLGQQLA  
DQPLEADEDGFVAPQDPLRGHVDQFEEQSPAQQSFEPAGLPQGFTVTDTYHQQPQFPVPVQ  
QLQDSSSTLESQALSTS FHQQLLQAPSSDGMNVTTRLIQESSQEELDLQAQGSQFLEDNE  
DQRRRSYRCDYCNKGFKKSSHLKQHRSHTGEKPYKCKLCGRGFVSSGVLKSHEKTHTG  
KAFSCSVCNASFTTNGSLTRHMATHMSMKPYKCPFCEEGFRTTVHCKKHKMRHQTVP  
SAVSATGETEGGDICMEEEEEHSNRNASRKSREVITFTEEETAQLAKIRPQESATVSEKVLV  
QSAAEKDRISELRDKQAEQDEPKHANCCTYCPKSFKKPSDLVRHVRIHTGEKPYKDEC  
GKSFTVKSTLDCHVKTHTGQKLFSCHVCSNAFSTKGSCLKVHMLHTGAKPFKCPHCELRF  
RTSGRRKTHMQFHYKPDPKKARKPMTRSSSEGLQPVNLLNSSSTDPNVFIMNNSVLTGQF  
DQNLQPGVLGQAILPASVSAGGDLTVSLTDGSLATLEGIQLQLAANLVGPNVQISGIDA  
ASINNITLQIDPSILQQTLQQGNLLAQQLTGEPGLAPQNSSLQTSSTVPASVVIQPI  
SGLSLQPTVTSANLTIGPLSEQDSVLTNNSGTQDLTQVMTSQGLVSPSGGPHEITLTINNS  
SLSQVLAQAAGPTATSSSGSPQEITLTISELNTTSGSLPSTTPMSPSAISTQNLVMSSSG  
VGGDASVTLTADTQGMLSGGLDTVTLNITSQGGQFPALLTDPSSLGGGAGSPQVILVS  
HTPQSASAACEEIAYQVAGVSGNLAPGNQPEKEGRAHQCLECDRAFSSAAVLMHHSKEVH  
GRERIHGCPVCRKAFKRATHLKEHMQTHQAGPSLSSQKPRVFKCDTCEKAFKPSQLERH

SRIHTGERPFHCTLCEAFNQKSALQVHMKKHTGERPYKCAYCVMGFTQKSNMKLHMKRA  
HSYAGALQESAGHPEQDGEELSRTLHLEEVVQEAAGEWQALTHVF

>sp|A2RRD8|ZN320\_HUMAN Zinc finger protein 320 OS=Homo sapiens GN=ZNF320 PE=1 SV=1

MALSQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDISSKMMNTLSS  
TGQGNTEVIHTGTLQRQASYHIGAFCSQEIEKDIHDFVFQWQEDETNDHEAPMTEIKKLT  
SSTDYDQRHAGNKP IKGQLESRFHLHLRRHRIHTGEKPYKCECEKVFSCSHLEIHR  
IHTGEKPYKCKVCDKAFKHDSHLAKHTRIHRGDKHYTCNECGKVFQKATLACHHRSHT  
GEKPYKNECGKTFSTSHLVYHRLHTGEKPYKNECGKTFARNVSVLVIHKAVHTAEKP  
YKNECGKVFKQRATLAGHRRVHTGEKPYRCEECDKVFSRKSHLERHRIHTGEKPYKCK  
VCDKAFRSDSRLAEHQRVHTGERPYTCNECGKVFSTKAYLACHQKLHTGEKLYECEECDK  
VYIRKSHLERHRIHTGEKPHKCGDCGKAFNSPSHLIRHQRIHTGQKSYKCHQCGKVFSL  
RSLLAEHQKIPFGDNCFCNEYSKPSSIN

>sp|Q9Y3S2|ZN330\_HUMAN Zinc finger protein 330 OS=Homo sapiens GN=ZNF330 PE=1 SV=1

MPKKKTGARKKAENRREREKQLRASRSTIDLAKHPCNASMECDKQRRQKNRAFCYFCNS  
VQKLPICAQCCKTKMMKSSDCVIKAGVYSTGLAMVGAICDFCEAWVCHGRKCLSTHAC  
ACPLTDAECVEECERGVWDHGGRIFFCSFCHNFLCEDDQFEHQASCQVLEAETFKCVSCNR  
LGQHSLRCKACFCDHTRSKVFKQEKGKQPPCPKCGHETQETKDLMSSTRSLKFGRTG  
GEEGDGASGYDAYWKNLSSDKYGDTSYHDEEEDYEAEDEDEEEDGRKDSDESSDLFT  
NLNLGRTYASGYAHYEEQEN

>sp|Q06732|ZN33B\_HUMAN Zinc finger protein 33B OS=Homo sapiens GN=ZNF33B PE=1 SV=2

MNKVDQKFQGSVSFKDVTVGFTQEEWQHLDPSQRALYRDVMLENYSNLVSVGYCAHKPEV  
IFRLEQGEPPWRLEEEFPSQSFPEVWTADHLKERSQENQSKHLWEVVFINNEMLTKEQGN  
VIGIPFNMVSSFPSRKMFQYDSRGMSTFNTVSELVISKINYLGKKSDEFNACGKLLLN  
KHDETHTREKNEVLKNRNTLSHRENTLQHEKIQTLDNFEYSICQETLLEKAVFNTKRE  
NAEENNCYNEFGRTFCSSSLLFHQIPPSKDSHYEFSCEKFLCVKSTLSKHDGVPVKH  
YDCGESGNFRRLKLSQLQKGDKGEKHFECNECGKAFWEKSHLTRHQRVHTGEKHFQCN  
QCGKTFWEKSNLTKHQRSHTGEKPFECNECGKAFSHKSALTQHRTHTGEKPYQCACGK  
TFYQKSDLTKHQRTHTGKQPYECYECGKSFCMNSHLTVHQRTHTEKPFECLECGKSFCQ  
KSHLTQHQRTHIGDKPYECNACGKTFYHKSVLTRHQI IHTGLKPYECYECGKTFCLKSDL  
TIHQRTHTEKPFACPECGKFFSHKSTLSQHYRTHTEKPYECHECGKIFYNKSYLTKHN  
RTHTEKPYECNECGKTFCKSQSLTQHQRTHIGEKPYECNECGKAFCHKLSALIVHQRTH  
QEKPYKNECGKSFCVKSGLILHERKHTGEKPYECNECGKSFSHKSSLTVHHRAHTGEKS  
CQCNECGKIFYRKSDLAKHQRSHTGEKPYECNCRKTFQKSNLIVHQRTHIGEKPYE

>sp|Q9UL40|ZN346\_HUMAN Zinc finger protein 346 OS=Homo sapiens GN=ZNF346 PE=1 SV=1

MEYPAPATVQAADGGAAGPYSSSELLEGQEPDGVRFRERARRLWEAVSGAQPVGREEVE  
HMIQKNQCLFTNTQCKVCCALLISESQKLAHYQSKKHANKVKRYLAIHGMETLKGETKKL  
DSDQKSSRSKDKNCCPICNMTFSSPVVAQSHYLGKTHAKNLKLKQSTKVEALHQNREM  
IDPDKFCSLCHATFNDPVMAQGHYVGKKHRKQETKLKLMARYGRLADPAVTFPAGKGYP  
CKTCKIVLNSIEQYQAHVSGFKHKNQSPKTVASSLGQIPMRQPIQKDDTTLED

>sp|Q96SE7|ZN347\_HUMAN Zinc finger protein 347 OS=Homo sapiens GN=ZNF347 PE=1 SV=2

MALTQGGVTFRDVAIEFSQEEWTCLDPAQRTLYRDVMLENYRNLASLGISCFDLSIISML  
EQGKEPFTLESQVQIAGNPDGWEWIKAVITALSSEFVMKDLLHKGSNTGEVVFQTVMLER  
QESQDIEGCSFREVQKNTHGLEYQCRDAEGNYKVLLTQEGNLTHGRDEHDKRDARNKLI  
KNQLGLSLQSHLPELQLFQYEGKIYECNQVEKSFNNNSSVSPQQMPYNVKTHISKKYLK

DFISSLLLTQGGKANNWGSPPYKSNCGMVFPQNSHLASHQRSHTKEKPYKCYECGKAFRT  
RSNLTTHQVIHTGEKRYKNECGKVFSRNSQLSQHQKIHTGEKPYKNECGKVFTQNSHL  
VRHRGIHTGEKPYKNECGKAFRRSSLAIHQAHSGEKPYKNECGKVFTQNSHLTNHW  
RIHTGEKPYKNECGKAFGVRSSLAIHLVIHTGEKPYKCHECGKVFRNSHLARHQLIHT  
GEKPYKNECGKAFRAHSNLTTHQVIHTGEKPYKNECGKVFTQNSHLANHRIHTGVKP  
YMCNECGKAFSVYSSLTTHQVIHTGEKPYKNECGKVFTQNSHLARHRGIHTGEKPYKN  
ECGKVFRHNSYLSRHQRIHTGEKPYKYNEYGKAFSEHSNLTTHQVIHTGEKPYKNECGK  
VFTQNSHLARHRRVHTGGKPYKNECGKAFSQTSKLARHQRVHTGEKPYECNCGKAFSV  
RSSLTTHQAIHTGKKPYKNECGKVFTQNSHLARHRGIHTGEKPYKNECGKAFSQTSKL  
ARHQRITHTGEKPYECGKPFISCSLTTHQTHTGGKPYKCNVWVLKSEFKPCKPSQNS

>sp|Q5T0B9|ZN362\_HUMAN Zinc finger protein 362 OS=Homo sapiens GN=ZNF362 PE=1 SV=1

MSRSSPSGKGHSMAEPRFNNPYFWPPPPTMPSQLDNLVLINKIKEQLMAEKIRPPHLP  
TSASSQQPLLVPAPAESSQAVMSLPKLQQVPGHPQAVPQPDVALHARPATSTVTGLGL  
STRTPSVSTSESSAGAGTGTSTPSTPTTTSQSRLIASSPTLISGITSPLLDSEIKTIQ  
GHGLLGPPKSERGRKKIKAENPGPPVLVVPYILASGETAKEGKTYRCKVCPLTFFTKS  
EMQIHSKSHTEAKPHKCPHCKSFANASYLAQHLRIHLGVKPYHCSYCDKSFRQLSHLQQ  
HTRIHTGDRPYKCPHPGCEKAFTQLSNLQSHQRQHNDKPYKCPNCYRAYSDSASLQIHL  
SAHAIKHAKAYCCSMCGRAYTSETYLMKHSKHTVVEHLVSHHSPQRTESPGIPVRISLI

>sp|Q9UJN7|ZN391\_HUMAN Zinc finger protein 391 OS=Homo sapiens GN=ZNF391 PE=2 SV=2

MESLRGNTAQPTNEEDYKNEGQLSRQTKCPAQKKSSFENTVVRKVSVTLKEIFTGEEGP  
ESSEFSLSPNLDAQKQKPKGHGSPISRKNSKDNDLIKHQRLFSQRKPCKNECEKAFSY  
QSDLLVHSRIHGGEKPFECNCKGKFSRSTHLIEHQRTHTGEKPYECNECGKAFSRSTHL  
SLHQRITHTGEKPYECSECGKAFSRSTNLSQHQRTHQTERPYKNECGKAFGDRSTIIQH  
RIHTGENPYECSKCGKAFSWISSLTEHQRTHTGENPYECSECGKVFSRSSSLTEHQRIHS  
GEKPHECRVCGKGFSSSSLIHQRTHTGEKPYKCNDCGKAFCQSSTLIRHQHLHTKE

>sp|Q8TD17|ZN398\_HUMAN Zinc finger protein 398 OS=Homo sapiens GN=ZNF398 PE=1 SV=1

MAEAAPAPTSEWDSECLTSLQPLPLTPPAANEHLQTAAISLWTVVAAVQAIERKVEIH  
SRRLHLEGRGTAEKKLASCEKTVTELGNQLEGKWAFLGTLQLEYGLLQRRLENLENLL  
RNRNFWILRLPPGIKGDIPKVPVAFDDVSIYFSTPEWEKLEEWKELYKNIMKGNYESLI  
SMDYAINQPDVLSQIQPEGEHNTEDQAGPEESEIPTDPSEEPGISTSDILSWIKQEEEPQ  
VGAPPESKESDVYKSTYADEELVIKAEGLARSSLCPEVPVPFSSPPAAAKDAFSDVAFKS  
QQSTSMTPFGRPATDLPEASEGQVTFQLGSYPLPPPVGQVFSCHHCGKNLSQDMLLTH  
QCSHATEHPLPCAQCPKHFTQADLSSTSQDHASETPPTCPHCARTFTHPSRLTYHLRVH  
NSTERPFPCDPCPKRFADQARLTSHRRAHASERPFCAQCGRSFSCLKISLLHQRGHAQE  
RPFSCPQCGIDFNGHSALIRHQMIHTGERPYPCYCGRSFRYKQTLKDHLRSGHNGGCGGSDP  
CPHCGKSFIRKHMLMKHQRITHTGERPYPCSYCGRSFRYKQTLKDHLRSGHNGGCGGSDP  
SGQPPNPPGPLITGLETSGLGVNTEGLETNQWYGESEGGGVL

>sp|Q86VK4|ZN410\_HUMAN Zinc finger protein 410 OS=Homo sapiens GN=ZNF410 PE=1 SV=2

MLSDELESKPELLVQFVQNTSIPLGQGLVESEAKDITCLSLPVTEASECSRLMLPDDTT  
NHSNSSKEVPSSAVLRSLRVNVPDGEETRAQTVQKSPEFLSTSESSSLLQDLQPSDSTS  
FILLNLTRAGLGSSAEHLVFVQDEAEDSGNDFLSSESTDSSIPWFLRVQELAHDSLIAAT  
RAQLAKNAKTSSNGENVHLGSGDGQSKDSGPLPQVEKKLKCTVEGCDRTFVWPAHFYHL  
KTHNRDSFICPAEGCGKSFYVLQRLKVHMRTHNGEKPFCHEGSGCGKQFTTAGNLKNHR  
RIHTGEKPFLCEAQCGRSFAEYSSLRKHLVHSGEKPHQCQVCGKTFSSQSGSRNVHMRK

HHLQLGAAGSQEQEQTAEPLMGSSLLLEEASVPSKNLVSMNSQPSLGGESLNLPTNSILG  
VDDEVLAEGSPRSLSSVPDVTHHLVTMQSGRQSYEVSVLTAVNPQELLNQGDLTERRT

>sp|Q8TAU3|ZN417\_HUMAN Zinc finger protein 417 OS=Homo sapiens GN=ZNF417 PE=1 SV=2

MAAAPRRPTQQGTVTTFEDVAVNFSQEEWCLLSEAQRCLYRDVMLENLALISSLGWCWGS  
KDEEAPCKQRISVQRESQSRTPRAGVSPKKAHPCEMCGLILEDVFHFADHQETHHKQKLN  
RSGACGKNLDDTAYLHQHQKHIGEEKFYRKSVREASFVKKRKLRVSQEPFVFREFGKDVL  
PSSGLCQEA-AAVEKTDSETMHGPPFQEGKTNYS CGKRTKAFSTKHSVIPHQKLFTRDGCY  
VCSDCGKSF SRYVSFSNHQRDHTAKGPYDCGECGKSYSRKSLIQHQRVHTGKTAYPCEE  
CGKSFQKGSLSHQRVHTGERPYECREYGSFGQKGNLIHQHQQHTGERAYHCGECGKS  
FRQKFCFINHQRVHTGERPYKCGECGKSFGQKGNLVQHQRGHTGERPYECKECGKSFRYR  
SHLTEHQRLHTGERPYNCRECGKLFNRKYHLLVHERVHTGERPYACEVCGKLFGNKNCVT  
IHQRIHTGERPYECNECGKSFLSSALHVHKRVHSGQPKPYKCSECGKSFAECSSLIKHRR  
IHTGERPYECTKCGKTFQRSSTLLHHQSSHRRKAL

>sp|Q8TAQ5|ZN420\_HUMAN Zinc finger protein 420 OS=Homo sapiens GN=ZNF420 PE=1 SV=1

MARKLVMFRDVAIDFSQEEWECLDSAQRDLYRDVMLENYSNLVSLDLPSRCASKDLSPEK  
NTYETELSQWEMSDRLNCDLEESNSRDYLEAKGKMEKQENQKEYFRQGMIIYDKMSIF  
NQHTYLSQHSRCHSTEEKPYKCKEKGAFRRASHLTQHQS IHTGEKPYECKQCGKAFSRDS  
QLSLHQRLHTGEKPYACEKCGKFTQSSQLILHHRIHTGEKPYKCEECGKAFIRSSQLTR  
HQKVHTGEKPYECKEKGKFTQNSQLTLHQRLHTGEKLYECKEKRKVFTQLSQLILHKRI  
HTGEKPYECKEKGKAFICGSQLSQHQKIHNGEKPYECKEKGRAFIRGSLLMQHQR IHTGE  
KPYKCEECGKAFIRGSQLTQHQR IHTNEKPYECKEKGKMFSGSQLTQHQR IHTGEKPYQ  
CKECKGAFNRGSLTRHQRIHTGEKPYECKEKGKTF SRGSELTQHERIHTGEKPYECKEC  
GKSFI RGSQLTQHQR IHTGEKPYECKEKRMAFTQSSHLSQHQR LHTGEKPYVCNECGKAF  
ARGLLLIQHQR IHTGEKPYQCKECKGAFIRGSQLTQHQR IHTGEKPYECKECKGAFSGS  
QLTLHQRIHTGEKPYECRECRKFTQSSHLSRHQR IHTGEKPYQCKECKGKAFTRGSQLTQ  
HQRIHISEKSF EYKECGIDFSHGSQVYM

>sp|Q86V71|ZN429\_HUMAN Zinc finger protein 429 OS=Homo sapiens GN=ZNF429 PE=2 SV=2

MGPLTFDVAIEFSLEEWQCLDTAQQLYRNVMLENYRNLVFLGIAVSKPDLITCLEKEK  
EPCKMKRHEMVD EPPVVC SHFAEDFWPEQDIKDSFQKVT LRRYDKRGHENLQLRKGYKTV  
GDCKLYKGGYNGLNQCLTLTQSKMYHCDIYVKVFYAFSNADRYKTRHTGKKPFQCKKCGK  
SFCMSQLTQHKKIHIRENTYRCKEFGNAFNQSSALTNHKRIYVGEKHRYCEEKGAFNH  
YSTLTNHKRIHTGEKPYKCKECKGAFSRYSTLTTHKRIHSGEKPYKCECGKTF SISSTF  
TKHKI IHTEEKPYKCKECKGAFNRSSSTLTSHKRIHTGEKPYKCEECGKAFNWSSTLTCHK  
VIHTGEKPYKCEECGKAFNQSSRLTRHKKIHTGE EYPYKFEKCGRVFTCSSTLTQDKKIHT  
GEKPYNCEEKGKVFYSSSTLTRHKRIHTEEPYKCNCECGKAFNRSSHLTSHRRIHTGEK  
YKCEECGKAFKQSSNLNSHKKIHSGEKPYKCEECGKAFILSSRLTQHKKIHTGEKPYKCE  
ECGKAFNRSSRLTQHKKIHTGEKPYKCKQCDKAFTHSSNLSSHKKIHSGEKPYKCEECGK  
AFNRSSRLTQHKKIHTREKPYKCECAKAFTRSSRLTQHKKIHRMGVVAHACNPSTLGGR  
GGRITRSGDRDRPG

>sp|Q9H7R0|ZN442\_HUMAN Zinc finger protein 442 OS=Homo sapiens GN=ZNF442 PE=2 SV=1

MIVFGGEDRSDLFLPDSQTNEERKQYDSVAFEDVAVNFTQEEWALLGPSQKSLYRDVMWE  
TIRNLDCIGMKWEDTNIEDQHRNPRRSLRCHIIERFSES RQPDSTVNEKPPGVDPCKSSV  
CGEIMGCSFLNCYITFDAGHKPDECQEYGEKPHTHKQCGTAFNYHHSFQTQERPHTGKKR  
YDCKECKGKTFSSGNLRRHII VQRGGGPYICKLCGKAFFWPSLFRMHERTHTGEKPYECK

QCKAFPIYSSYL RHERHTHTGEKPYECKHCSKAFPDYSSYVRHERHTHTGEKPYKCKRCGR  
AFSVSSSLRIHERHTHTGEKPYECKQCGKAFHHLGSFQRHMIRHTGDGPHKCKICGKGFDG  
PSSLQSHERTHTGEKPYECKQCGKALSHSSFRSHMIMHTGDGPHKCKVCGKAFIYPSVF  
QGHERTHTGEKPYECKECGKAFRISSSLRRHETHTHTGEKPYKCKCGKAFIDFYSFQNHET  
THTGEKPYECKECGKAFSCFTYLSQHRRTHMAEKPYECKTCKKAFSHFGNLKVHERIHTG  
EKPYECKECRKAFSWLTCLLRHERIHTGKKSIECQCGKAFTRSRFLRGHEKTHHTGEKMH  
ECKECKGKALSSSLRHRKTHWRDTL

>sp|Q14592|ZN460\_HUMAN Zinc finger protein 460 OS=Homo sapiens GN=ZNF460 PE=1 SV=2  
MAAAWMAPAQESVTFEDVAVTFTQEEWGQLDVTQRALYVEVMLETGCLLVALGDSTKPET  
VEPIPSHLALPEEVSLEQLAQGVPRYSYLGQAMDQDGPSEMQEYFLRPGTDPQSEKLHG  
KMSLEHEGLATADGICSMMIQNQVSPEDALYGFDSYGPVTDSLIHEGENSYKFEEMFNEN  
CFLVQHEQILPRVKPYDCECGKAFGKSKHLLQHIIHTGEKPYKCLECGKDFNRRSHLT  
RHQRTHNGDKPFVCECGRTFNRGSHLTRHQRVHSGEKPFCNECGKAFTYRSNFVLHNK  
SHNEKKPFACSECGKGFYESTALIQHFIHTGERPFCLECGKAFNCRSHLKQHERIHTG  
EKPFVCSQCGKAFTHYSTYVLHERAHTGEKPFECKECKGKAFSIRKDLIRHFNIIHTGEKPY  
ECLQCGKAFTRMSGLTRHQWIHTGEKPYVCIQCGKAFCRTTNLIRHFSIHTGEKPYECVE  
CGKAFNRRSPLTRHQRIHTAEKSHEPIQSGNVSCESTDLIQHSIIHTESSPVSAVNMEPT  
SIAAHSSSLDINGFIVEETLPL

>sp|Q96JG9|ZN469\_HUMAN Zinc finger protein 469 OS=Homo sapiens GN=ZNF469 PE=2 SV=3  
MPGERPRGAPPPTMTGDLQPRQVASSPGHPSQPPLEDNTPATRTTKGAREAGGQAQAMEL  
PEAQPRQARDGELKPPSLRGQAPSSTPGKRGSPQTPPGRSPLQAPSRLAGRAEGSPQRY  
ILGIASSRTKPTLDETPENQLEAAQLPEVDTPQGPGTGAPLRPGLPRTEAQPAEELGF  
HRCFQEPPSSFTSTNYTSPSATPRPPAPGPPQSRGTSPLQPGSYPEYQASGADSWPPAAE  
NSFPGANFGVPPAEPEPIPKGSRPGGSPRGVSFQFPFALHGASTKPPFADVAGHAFTNG  
PLVFAFHQPQGAWEAVGTGPAYPLTPQAPSPLPCYQQPGGLNRHSDLSGALSSPGA  
AHSAPRPFSDSLHKSILTKILPERPPSAQDGLGSTRGPPSSLPQRHFPQAYRASGVDTS  
GPPDTELAAPGPPPARLPQLWDPTAAPYPTPPGGPLAATRSMFFNGQPSPGQRLCLPQSA  
PLPWPQVLPTARPSPHGMEMLSRLPFPAGGPEWQGGSGALGTAGKTPGPREKLPAVRSS  
QGGSPALFTYNGMTDPGAQPLFFGVAQPVSPHGTSLPPPRVVGASPSPLSPATNT  
AGSTCSSLSMSSSPANPSSEESQLPGLGPSAFFHPPHTHPQETGSPFSPPEPPHSLPTH  
YQPEPAKAFPPADGLGAEGAFQCLEETPFPHGEVGRGGLQGFPRAPPPYPTHHFSLS  
SASLDQLDVLITCRQCDRNYSSLAFLAHRQFCGLLLARAKDGHQRSPGPPGLSPPAAP  
RVPADAHAGLLSHAKTFLLAGDAQEGKDDPLRTGFLPSLAATPFPLPASDLDMEDDAKL  
DSLITEALNGMEYQSDNPEIDSSFIDVFADEEPSGPRGPSSGHPKSKAGVTPESKAPPP  
LPAATPDPQTPRPGDRGCPARGRPKTRSLGLAPTEADAPSQGRQRRGKQLKLFRKDLDS  
GGAAEGSGSGGGGRASGLRPRRNDGLGERPPRPRRPRTQAPGSRADPAPRVPRAAALPE  
ETRSSRRRRLPPRKDPRKRKARGGAWGKELILKIVQQKNRLREYDFASESEDEQPPPRG  
PGFRGRRRGRGEKRKEVELTQGPREDEPQKPRKAARQEAGGDGAPANPEEPGGSRPGRS  
PQARGPSRSLETGAAAREGGPKCADRPSVAPKDPLQVPTNTTETSEETRPSLDFPQEAKEP  
ETAESAPDSTEFTEALRSPPAACAGEMGASPGLLIPEQPPPSRHDGTGPKPSGSLANTA  
PHGSSPTPGVGSLLGGPGGTQAPVSHNSKDPPARQPGEFAPVANPSSTACPKPSVLSSK  
ISSFGCDPAGFNDRPLGVPVAKKGPQPYSSPHSELFLGPKDLAGCFLEELHPKPSARDAP  
PASSSCLQDGEDAGSLEPQLPRSPPGTAETEPGRAASPTLESSSLFPDLVDRFDPL  
YGSLSANRDSGLPFACADPPQKTVPSDPPYPSFLLLEEVSFPLPSHFPDLGGKVLSTC



PPERTVVPGAAPSLPGKSGCSVALMSHLSSEDELEIQKLVTESQLQRSKDTRGAPREL  
AEAESVGRVELGTGTEPPSQRRTCQATVPHEDTFSAADLTRVGESTAHREGAESAVATVE  
AVQGRPGGTWPCPASFHGHAALLPCAQEDLVSGAPFSPRGANFHFQPVQKAGASKTGLC  
QAEGDSRPPQDVCLPEPSKQPGPQLDAGSLAKCSPDQELSFKNKEAASSQESEDSLRLL  
PCEQRGGFLPEPGTADQPHRGAPAEAFGSPAVHLAPDLAFQGDGAPPLDATWPFGASPS  
HAAQGHSAGRAGGHLHPTAGRPGFEGNEFAPAGASSLTAPRGREAWLVPVPSPACVSNTH  
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KVACGPAQGSPPGVQVTTLPAVAGHQLGLEADGHWGLLGQAEKTQGGGTANQLQPENGVS  
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PLPREDPLTSPSRAQGGLGGQLPASPSCRDPGPGPQQLACSPAWAREADGVQATTDG  
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TLRIPEDSRKEKLWESPGRATSPPLAGAVSPSVAVRATGLSSTPTGDEAQAGRGLPGPDP  
QSRGAPPHTNPDRMPRGHSSYSNNTARLGHREGQAVTAVPTEPPTLQAGPDSPACLEG  
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ASHQTPQGDPLGPQDLKQSRSGYKKKPASTENGQWKGQAPHGPVTCEVCAASFRSGPGLS  
RHKARKHRPHPGAPAEPSAALPAQQPLEPLAQKCQPPRKKSHRVSGKERPNHSRGDPSH  
VTQPPPAQGSKEVLRAPGSPHSQQLHPPSPTEHEVDVKTASKPRPDQAREDELHPKQAE  
KREGRRWRREPTVDSPSHSEGKSNKKRGKLRGRRLREESILPVSADVISDGRGSRPSPAM  
ASYAASPSHCLSVEGGPEADGEQPPRLATLPGVMEGAAETDQEALCAGETGAQKPPGDR  
MLCPGRMDGAALGEQPTGQKGASARGFWGPRETKALGVCKESGSEPAEDSSRAHSRSEEG  
VWEENTPPLGPLGFPETSSSPADSTTSSCLQGLPDNPDTQGGVQGEPTPDASGSSAKD  
PPSLFDDEVFSFSLFPPGGRLTRKRNPHVYGRCEKPVLPPTQPSFEEGGDPTLGPART  
PTDLSOSSSLCLCHEDPWEDEDPAGLPESFLLDGFLNSRVPGIDPWAPGLSLWALEPSRE  
AGAELPSHCPEDDRPEAIPELHMVPAAWRGLEMPAPADDSSSSLGDVSPEPPSLERERC  
DGGLPGNTHLLPLRATDFEVLSTKFEMQDLCLFPGFEDPVGLPGPSFLDFEGTASSQGPQ  
SRRTEEAAGAGRAQGRGPAKGRRASYSKCKVCFQRFSLGELDLHKLHAHTPAPPPTCYMC  
VERRFGSRELLRHLQERHAQSKAGPWACGMCLKEVADVWYNEHLREHAVRFARRGQAR  
RSLGDLPGGLEGSSAVAHLLNSITEPAPKHHRGKRSAGKAAGSPGDPWGQEGEAKKDS  
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HEACKDPSRDCHHCGRFQPKFLQRHLAVHSPQRVYLCPRCPRVYPEHGELLAHLGGAH  
GLLERPELQHTPLYACELCATVMRIKKSFACSSCNYTFAKKEQFDRHMKHLRGGRPQF  
AFRGVRRPGAPGQKARALEGTLPSKRRRVAMPGSAPGPGEDRPPPRGSSPILSEGLPAL  
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CALDGALERPENEASPGSPGPLLQALPLGASLPRPGARGQDAEGKRAPLVFSGKRRAPG  
ARGRCAPDHFQEDHLLQKEKEVSSSHMVSEGGPRGTFHKGSAKTPAGCQSSSKDRSAAST  
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QPQPASGQLQSETATTPAKPSFSPSRPAPERLPAQAQAKSCTKGPREAGEQGPHGSLGPK  
EKGESSTKRKKGGVPGPARSESVGSFGRAPSAPDKPPRTPRKQATPSRVLPKPKPNSQN  
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>sp|Q6ECI4|Zn470\_HUMAN Zinc finger protein 470 OS=Homo sapiens GN=ZNF470 PE=2 SV=3  
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IMERLKSVDLECSLTGKNWKCEDLFEERELVNQKTHFRQETITHTIDTLIEKRDHSNKSGETV  
FHLNLTSLYIKQIFPMEERIFNFHTDKKSLKTHSVVKKHKQDRGEKKLLKCNDCIEKIFSKI  
STLTLHQRIHTGEKPYECIECGKAFSQSAHLAQHQRIHTGEKPFECTECGKAFSQNAHLV  
QHQRVHTGEKPYQCKQCNKAFSQLAHLAQHQRVHTGEKPYECIECGKAFSDCSSLAHHR  
IHTGKRPYECIDCGKAFRQNASLIRHRRYYHTGEKPFDCIDCGKAFTDHIGLIQHKRTH  
GERPYKCNVCGKAFSHGSSLTVHQRIHTGEKPYECNICEKAFSHRGSLTLHQRVHTGEK  
YECKEKGKAFRQSTHLAHHQRIHTGEKPYECKESKTFQNAHLAQHQIHTGEKPYECK  
ECGKAFSQIAHLVQHQRVHTGEKPYECIECGKAFSQSYLVQHQLHSGKRPYECLECGK  
AFRQRASLICHQRCHTGEKPYECNVCGKAFSHRKSLTLHQRIHTGEKPYECKESKAFSQ  
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>sp|Q8WTR7|ZN473\_HUMAN Zinc finger protein 473 OS=Homo sapiens GN=ZNF473 PE=1 SV=1

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DLEPLAGGSPEATSPDVTETKNSPLMEDFFEEGFSQEIIEMLSKDGFWNSNFGACIEDT  
WLDSLLGDPESSLRSDIATNGESPTECKSHELKRLSPVSTVSTGEDSMVHNVSEKLTTP  
AKSKEYRGEFFSYSDHSQQDSVQEGEKPYQCSECGKSFGSYRLTQHWITHTREKPTVHQ  
ECEQGFDNRNASLSVYPKTHGYKFYVCNEYGTTFSQSTYLWHQKTHHTGEKPKSQSDHP  
PSHDTQPGEHQKTHTDKSYNCECGKAFTRIHFLTRHQKIHTKRYECSKCQATFNLRK  
HLIQHQKTHAAKTTECEQECGKIFRHSSLLIEHQALHAGEEPYKCNERGKSFHNSTLKI  
HQRVHSGEKPYKCECGKAFRHHTLNEHRRITHTGYRPHKCQECVRSFSRPSHLMRHQAI  
HTAEKPYSCAECKETFSDNNRLVQHQMHTVKTPYECQECGERFICGSTLKCHESVHARE  
KQGFVSGKILDQNPQKEKCFKCNKCEKTFSCSKYLTQHERIHTRGVQPFECQCGKAF  
GQSTRLIHHQRIHSRVRLYKWGEQGKAISSASLIKLSFHTKEHPFKNCEGKTFSHSAH  
LSKHQLIHAGENPFKCSKCDRVFTQRNYLVQHERTHARKKPLVNECGKTFRQSSCLSKH  
QRIHSGEKPYVCDYCGKAFLSAELVRHQRIHTGEKPYVCQECGAFTQSSCLSIHRRVH  
TGEKPYRCGECGKAFAKANLTQHQRITHTGEKPYSCNVCGKAFVLSAHLNQHLRVHTQET  
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>sp|Q5JVG2|ZN484\_HUMAN Zinc finger protein 484 OS=Homo sapiens GN=ZNF484 PE=1 SV=1

MTKSLESVSFKDVTVDVSRDEWQQLDLAQKSLYREVMLENYFNLSVGCQVPKPEVIFSL  
EQEPCMLDGEIPSQSRPDGIDIGFPLQQRMSSEVSFQSEININLFRDDPYSILEELWK  
DDEHTRKCGENQNKPLSRVVFINKKTLANDSIFEYKDIGEIVHVNTHLVSSRKRPHNCNS  
CGKNLEPIITLYNRNATENSDDTIGDGDIFTHLNSHTEVTACECNQCGKPLHHKQALIQ  
QQKIHTRESLYLFSQDVNVFSPKSHAFAHESICAEKQHECHECEAVFTQKSQLDGSQRV  
YAGICTEYKDFSLKSNRQKTPYEGNYYKCSQDYGRAFIQKSDLFRCQRIHSGEKPYEYSE  
CEKNLPQNSNLNIHKKIHTGGKHFECTECGKAFTRKSTLSMHQKIHTGEKPYVCTECGKA  
FIRKSHFITHERIHTGEKPYECSDCGKSFIKKSQLHVHQRIHTGENPFICSECGKVFTHK  
TNLIHQKIHTGERPYICTVCGKAFTDRSNLIKHKIHTGEKPYKSCDCGKSFTWKSRLR  
IHQKCHTGERHYECSECGKAFIQKSTLSMHQRIHRGEKPYVCTECGAFFHKSHFITHER  
IHTGEKPYECSICGKSFTKKSQHLVHQIHTGEKPYRCAECGAFTDRSNLFTHQKIHTG  
EKPYKSCDCGKAFTRKSGHLIHQQSHTGERHYECSECGKAFARKSTLIMHQRIHTGEKPY  
ICNECGKSFQKSHLNRHRRITHTGEKPYECSDCGKSFIKKSQLHEHHRITHTGEKPYICAE  
CGKAFTIRSNLIKHKIHTKQKPYKCDLGKALNWKPLSMPQKSDNGEVECSMPQLWCG  
DSEGDQGGQLSSI

>sp|Q5JVG8|ZN506\_HUMAN Zinc finger protein 506 OS=Homo sapiens GN=ZNF506 PE=2 SV=2

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KPLTMKRHEMIAKPPVMYSHFAQDLWSEQSIKDSFQKVIILRRYEKCRHDNLQLKKGCESV  
DECPVHKRGYNGLKQCLATTQRKIFQCDEYVKFLHKFSNSNKHKIRDTGKKSFKCIEYGK  
TFNQSSSTRTTYKKIDAGEKRYKCEECGKAYKQSSHLTTHKKIHTGEKPYKCEECGKAYKQ  
SCNLTTHKKIHTGEKPYRCRECGKAFNHPATLFSHKKIHTGEKPYKCDKCGKAFISSSTL  
TKHEIHTGEKPYKCEECGKAFNRSSNLTKHKRIHTGDVPYKCECGKTFTWYSSLSKHK  
RAHTGEKPYKCEECGKAFTAFSTLTEHKIHTGEKPYKCEECGKAFNWSSALNKHKKIHI  
RQKPCIVKNVENLLNVPQPLISIR

>sp|Q9Y2H8|ZN510\_HUMAN Zinc finger protein 510 OS=Homo sapiens GN=ZNF510 PE=2 SV=1  
MSPHPEAITDCVTLNTVGQLAEGGYPLRFSTLTFQEQQKMNISQASVSFKDVTIEFTQEEW  
QQMAPVQKNLYRDVMLENYSNLVSVGYCCFKPEVIFKLEQGEEPWFSEEEFSNQSHPKDY  
RGDDLKQNKKIKDKHLEQAICINNKLTTEEEKVLGKPFTLHVAAVASTKMSCKCNSWE  
VNLQSISEFIINNRNYSTKKIGCGNVCENSPFKINFEKTQTGEKFYEHNKMKALNYNEN  
LPKHPKFQTLQAFECNKIGKAFNDKANCVKHNSSTGETSSKDDEFKNCDDKTLFDHR  
RTGTGKKHLHLNQCCKSFEKSTVEEYNKLNMGIKHYELNPSGNNFNRAHLTDPQTAVIE  
ENPLVSNDRQTQVWKSSEYHENKKSQTSVHRVRRRSHSMMKPYKCECGKSFCQKGHLI  
QHQRTHTEKPFECSECGKTFQKSHLSTHQRIHTAEKPYKCECGKTFVQKSTLRGHQR  
IHTGEKPYECSECGKTFVQKSTLRDHHRIHTGEKSFQCNQCGKTFGQKSNLRIHQRTHTG  
EKTYQCNECEKSFWRKDHLIQHQKTHTEKPFKCECGKTFARTSTLRVHQRIHTGEKPF  
KCECGKKFVRKAILS DHQRIHTGEKPFQCNKCGKTFGQKSNLRIHQRTHSGEKSYECNE  
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>sp|Q96K75|ZN514\_HUMAN Zinc finger protein 514 OS=Homo sapiens GN=ZNF514 PE=2 SV=1  
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MVEREISTGAHSDWKRRSKSKESMPSWGISKEELFQVVSVEKHIQDVLQFSKLKAACGCD  
GQLEMQQIKQERHLKQMSTIHKSATTLSDYKWNFGFGRSLGLRSVLVNQHSILMGEFSYK  
CDTEFRQTLGGNNSQRTHPEKKSCCKNECGKSFHFQSELRRHQRCHTGEKPYECSDCGRA  
FGHISSLIKHQRTHTGEKPYECSECGRAFSQSSSLVLHYRFHTGEKPYKCECGRAFGHT  
SSLIKHQRTHTGEKPYECRECGRTFSQSSSLIVHYRFHTGEKPYKCNKCGRAFSQSSSLT  
QHRYRFHTGEKPYKCECGRAFAHTASLIKHQRS HAGKTL

>sp|Q8N1W2|ZN710\_HUMAN Zinc finger protein 710 OS=Homo sapiens GN=ZNF710 PE=2 SV=2  
MEGFMDSGTQTDVVVLSLAQAAVLGLVSENELFGATISAEAFYDLPGLSGAAMGEPE  
PPGPDVYQLACNGRALEEPAEEVLEVEAAACEKHTRKTRPPVRLVPKVKFEKVEEEEQE  
VYEVSPGDDKDAGPAEAPAEASGGCDALVQSSAVKMIDLSAFSRKPRTLRLPRTPRP  
ELNVAPYDPHFPAPARDGFPEPSMALPGPEALPTECGFEPHPLAPLSDPEAPSMESPEPV  
KPEQGFVWQEASEFEADTAGSTVERHKAQLDRLDINVQIDDSYLVEAGDRQQRWQCRMC  
EKSYTSKYNLVTHILGHNGIKPHSCPHCSKLFKQPSHLQTHLLTHQGTRPHKCQVCHKAF  
TQTSHLKRHMLLHSEVKPYSCFGRGFAYPSELKAHEVKHESGRCHVCVEGLDFSTLT  
QLKRHLASHQGPTLYQCLECDKSFHYRSQLQNHMLKHQNVRFVCTECGMEFSQIHHLKQ  
HSLTHKGVKEFKCEVCGREFTLQANMKRHMLIHTSVRPYQCHICFKTFVQKQTLKTHMIV  
HSPVKPFCKVCGKSFNMYNLLGHMHLHAGSKPFKPYCSSKFNLKGNLSRHMVKVHGV  
MDIGLDSQDPMELTGTDPSQLDGGQEMEDFEENAYSASVDSSAEASVLTEQAMKEMAY  
YNNL

>sp|A6NP11|ZN716\_HUMAN Zinc finger protein 716 OS=Homo sapiens GN=ZNF716 PE=2 SV=4  
MAKRPGPSREMGILLTFRDIAIEFSLAEWQCLDHAQQNLYRDVMLENYRNLVSLGIAVS  
KPDLITCLEQNKEPQNIKRNEMVAKHPVTCSHFTQDLQSEQGIKDSLQKVIILRRYGKCGQ

EDLQVKKCKSVGECEVHKGGYNYVNQCLSATQNKTFQTHKCVKVFGKFSNSNRHKTRHT  
GKKHFKCKNDGKSFCML SRLNQHQI IHTREKSYKCEECGKSFNCSSTLTRHKRIHTGEKP  
YRCEECGKAFSWSASLTKHKRIHTGEKPYTCEERGKVFSRSTLTNYKRIHTGEKPYTCEE  
CGKAFSRSTLTNHKRIHTGERPYKCEECGKAFLSSTLKKHKIVHTGEKLYTCEECGKA  
FTFSSTLTNHKRIHTGEKPYTCEECGKAFLPSTFTYHKRTHHTGEKPYPYKCEECGKAFNCS  
STLKKHKI IHTGEKLYKCKEKGKAFSTFSSTLTNHKRIHTGEKPYPYKCEECQDTFKWHSSLA  
NHKNMHTGEKPYPYK

>sp|A8MTY0|ZN724\_HUMAN Zinc finger protein 724 OS=Homo sapiens GN=ZNF724 PE=2 SV=3

MGPLTFMDVAIEFSVEEWQCLDTAQQNL YRNVML ENYRNLVFLGI AVSKPDLITCLEQGK  
EPWNMERHEMVAKPPGMCCYFAQDLRPEQSIKASLQRI ILRKYEKCGHHNLQLKKGYKSV  
DEYKVHKGSYNGFNQCLTTTQSKIFQCDKYVKDFHKFSNSNRHKTEKNPFKCKEKGKSF  
VLSHLTQHKRIHTTVNSYKLEECGKAFNVSTLSQHKRIHTGQKHYKCEECGIAFNKSSH  
LNTHKI IHTGEKSYKREECGKAFNISSHLTTHKI IHTGENAYKCKEKGKAFNQSSTLTRH  
KIIHAGEKPYICEHCGRAFNQSSNLTKHKRIHTGDKPYKCEECGKAFNVSTLTQHKRIH  
TGEKPYPYKCEECGKAFNVSTLTQHKRIHTGEKPYPYKCEECGKAFNTSSHLTTHKRIHTGEK  
PYKCEECGKAFNQFSLTTHKI IHTGEKPYPYKCKEKGKAFKRSSNLTEHRI IHTGEKPYPYK  
EECGKAFNLSHLTTHKKIHTGEKPYPYKCKEKGKAFNQSSTLARHKI IHAGEKPYKCEECG  
KAFYQYSNLTHKI IHTGEKPYPYKCEECGKAFNVSTLTTHKVIHTGEKPYPYKCKEKGKAFN  
QCSNLTTHKKIHAVEKSDK

>sp|Q96N20|ZN75A\_HUMAN Zinc finger protein 75A OS=Homo sapiens GN=ZNF75A PE=2 SV=1

MYFSQEEWELLDPQKALYNDVMQENYETVISLALFVLPKPKVISCLEQGEEPWVQSPE  
FKDSAGKSPTGLKLKNDTENHPVSLSDLEIQASAGVISKKAKVKVPQKTAGKENHFDH  
RVGKWHQDFPVKKRKLSTWKQELLKMDRHKKDCAREKPFKCECGKTFRVSSDLIKHQ  
RIHTEKPYKQCDKRFWRSSDLNKLHTTHQGIKPYKCSWCGKSFSQNTNLHHTHQRTH  
GEKPFTHCEGKKFSQNSHLIKHRRTHHTGEQPYTCSICRRNFSRRSSLLRHQKLHL

>sp|P51815|ZN75D\_HUMAN Zinc finger protein 75D OS=Homo sapiens GN=ZNF75D PE=2 SV=2

MAMRELNADSCSSPQMGAMWETSGSVKENSSQSKYSTKIENLGPESACRHFWSFRYHEA  
TGPLETISQLKQLCHQWLRPEIHSKEQILEMLVLEQFLSILPKETQNWVQKHHPQNVKQA  
LVLVEFLQREPDGKNEVTAHELKGEAVLLGGTAVAPGFKWKPAEPQPMGVFQKEYWNTY  
RVLQEQLGWNTHKETQPVYERAVHDQQMLALSEQKRIKHWMASKLILPESLSLLTFEDV  
AVYFSEEEWQLLNPLEKTLNDVMQDIYETVISLGLKLKNDTGNDHPISVSTSEIQTSGC  
EVSKKTRMKIAQKTMGRENPGDTHSVQKWHRAFPKRKRKPATCKQELPKLMDLHGKGPT  
GEKPFKCECGKSFRVSSDLIKHHRIHTGEKPYPYKQCDRRFRWSSDLNKHFMTHQGIK  
YRCSWCGKSFSHTNLHHTHQRTHHTGEKPFKCECGKRFIQNSHLIKHQRTHHTGEQPYTCS  
LCKRNFSRRSSLLRHQKLHRRREACL VSPN

>sp|Q8ND25|ZNR1\_HUMAN E3 ubiquitin-protein ligase ZNR1 OS=Homo sapiens GN=ZNR1 PE=1  
SV=2

MGKQKSTAARSRPGPFVSTDDSAVPPPGGAPHFHYRTGGGAMGLRSRSVSSVAGMGMD  
PSTAGGVFGLYTPASRGTDSEAPGGGSASDSTYAHNGYQETGGGHHRDGMLYLS  
RASLADALPLHIAPRWSSHSFGKCPICSKSVASDEMAMHFMCLSKPRLSYNDDVLT  
AGECVICLEELLQGD TIARLPCLCIYHKSCIDSWFEVNRSCPEHPAD

>sp|Q8NHG8|ZNR2\_HUMAN E3 ubiquitin-protein ligase ZNR2 OS=Homo sapiens GN=ZNR2 PE=1  
SV=1

MGAKQSGPAAANGRTRAYSGSDLPSSSSGGANGTAGGGGGARAAAAGRFP AQVPSAHQPS

ASGGAAAAAAPAAPAPRSRSLGGAVGSVAGARAAQSPFSIPNSSSGPYGSQDSVHSS  
PEDGGGGRDRPVGGSPGGPRLVIGSLPAHLSPHMFGGFKCPVCSKFVSSDEMDLHLMCL  
TKPRITYNEDVLSKDAGECAICLEELQQGDTIARLPCLCIYHKGCIDWFEVNRSCPEHP  
SD

>sp|Q8WWF5|ZNR4\_HUMAN E3 ubiquitin-protein ligase ZNR4 OS=Homo sapiens GN=ZNR4 PE=1  
SV=3

MPLCRPEHLMPRASRPVAASLPLSHAVIPTQLPSRPGHRPPGRPRRCPKASCLPPPVG  
SSTQTAKRVTMGWPRPGRALVAVKALLVLSLLQVPAQAVVRVLEDNSSSVDFADLPALF  
GVPLAPEGIRGYLMEVKPANACHPIEAPRLGNRSLGAIVLIRRYDCTFDLKVLNAQRAGF  
EAAIVHNHSDDLVSMTHVYEDLRGQIAIPSVFVSEAASQDLRVILGCNKSAAHALLPDD  
PPCHDLGCHPVLTVSWVLGCTLALVVSFAFFVLNHLWLWAQACSHRRPVKTSTCQKAQVR  
TFTWHNDLCAICLDEYEEGDQLKILPCSHTYHCKCIDPWFSQAPRRSCPCKQSVAAED  
SFDSTYSFRDEDPSLPGHRPPIWAIQVQLRSRRLELLGRASPHCHCSTTSLEAEYTTVS  
SAPPEAPGQ

>sp|075312|ZPR1\_HUMAN Zinc finger protein ZPR1 OS=Homo sapiens GN=ZPR1 PE=1 SV=1

MAASGAVEPGPPGAAPSPAPAPPPAPDHLFRPISADEEEQQPTEIESLCMNCYNGMT  
RLLLTKIPFFREIIIVSSFSCEHCGWNTEIQSAGRIQDQGVRYTSLVRALEDMNREVVK  
DSAATRIPELDFEIPAFSQKGALTVEGLITRAISGLEQDQPARRANKDATAERIDEFIV  
KLKELKQVASPFTLIIDDPGNSFVENPHAPQKDDALVITHYNRTRQQEEMGLQEEAPA  
EKPEEEDLRNEVLQFSTNCPECNAPAQTNMKLVQIPHFKVEIIMATNCENCGHRTNEVKS  
GGAVEPLGTRITLHITDASDMTRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGLLKD  
IRELVTKNPFTLGDSSNPGQTERLQEFSSQKMDQIIIEGNMKAHFIMDDPAGNSYLQNVYAP  
EDDPEMKVERYKRTFDQNEELGLNDMKTEGYEAGLAPQR

>sp|Q19AV6|ZSW7\_HUMAN Zinc finger SWIM domain-containing protein 7 OS=Homo sapiens  
GN=ZSW7 PE=1 SV=1

MAVVLPAVVEELLSEMAAAVQESARIPDEYLLSLKFLFGSSATQALDLVDRQSITLISSP  
SGRRVYQVLGSSSKTYTCLASCHYCSCPAFAFSVLKSDSILCKHLLAVYLSQVMRTCQQ  
LSVSDKQLTDILLMEKKQEA

>sp|P98169|ZXDB\_HUMAN Zinc finger X-linked protein ZXDB OS=Homo sapiens GN=ZXDB PE=2 SV=2

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EASTASRPGPSLLAPRTDQPSGGGGGGDDFFLVLLDPVGGDVETAGSGQAAGPVLREE  
AEEGPLQGGESGANPAGPTALGPRCLSAVPTPAPISAPGPAAAFAGTVTIHNQDLLLLRF  
ENGVLTLATPPPHAWEPGAAPAQPGCLIAQAGFPHAAHPGDCPELPPDLLAEPAPPA  
PAPAPEEEEAGPAAALGPRGPLSGPGVVLYLCPEAQCGQTFAKKHQLKVHLLTHSSSQG  
QRPFKCPGLGGCGWTFSTSYKLKRHLQSHDKLRPFGCPAEGCGKSFTTVYNLKAHMKGHEQ  
ENSFKEVCEESFPTQAKLSAQRSHFEPERPYQCAFSGCKKTFITVSALFSHNRAHFRE  
QELFSCSFPGCSKQYDKACRLKIHLRSHTGERPFLCDFGCGWNFTSMKLLRHKRKHDD  
DRRFMCPVEGCGSFTRAHLKGHSITHLGTKPFVCPVAGCCARFSARSSLYIHSKKHLQ  
DVDTWKSRCPISSENKLFTHSMKTHMVKRHKVGQDLAQLEAANSLTPSSELTQRQN  
DLSDAEIVSLFSDVPDSTSAALLDTALVNSGILTIDVASVSSTLAGHLANNNNNSVGQAV  
DPPSLMATSDPPQSLDTSFFGTAATGFQQSSSLNMDEVSSSVGPLGSLDSLAMKNSSPE  
PQALTPSSKLTVDTDALTPSSTLCENSVSELLTPTKAENWVHPDSDFFGQGETQFGFPN  
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>sp|Q2QGD7|ZXDC\_HUMAN Zinc finger protein ZXDC OS=Homo sapiens GN=ZXDC PE=1 SV=2

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PGVAPAGAVTISSQDLLVRLDRGVLALSAPPGPATAGAAAPRRAPQASGPSTPGYRCPEP  
QCALAFAKKHQLKVHLLTHGGGQGRPFKCPLEGCGWAFTTSYKLKRHLQSHDKLRPFGC  
PVGCGGKKFTTVYNLKAHMKGHEQESLFKCEVCAERFPTHAKLSSHQRSHFEPERPYKCD  
FPGCEKTFITVSALFSHNRAHFREQELFSCSFPGCSKQYDKACRLKIHLSHTGERPFIC  
DSDSCGWTFTSMSKLLRHRRKHDDRRFTCPVEGCGKSFTRAEHLKGHSITHLGTKPFEC  
PVEGCCARFSARSSLYIHSKKHVQDVGAPKSRCPVSTCNRLFTSKHSMKAHMVRQHSRRQ  
DLLPQLEAPSSLTPSSELSSPGQSELTNMDLAALFSDTPANASGSAGGSDEALNSGILTI  
DVTSSVSSSLGGNLPANNSSLGPMELVLVAHSDIPPSLDSPLVLGTAATVLQQGSFSVDD  
VQTVSAGALGCLVALPMKNLSDDPLALTSNSNLAHHITPTSSSTPRENASVPELLAPIK  
VEPDSPSRPGAVGQQEGSHGLPQSTLPSPAEQHGQAQDTELSAGTGNFYLESGBSARTDYR  
AIQLAKEKKQRGAGSNAGASQSTQRKIKEGKMSPPHFHASQNSWLCGSLVVPSSGGRPGPA  
PAAGVQCGAQGVQVLVQDDPSGEGVLPSARGPATFLPFLTVDLPVYVLQEVLPSSGGPA  
GPEATQFPGSTINLQDLQ

>sp|Q9UI25|YPO02\_HUMAN Putative uncharacterized protein PRO0461 OS=Homo sapiens  
GN=PRO0461 PE=5 SV=1

MEEMSYGENSGTHVGSFSCSPQPSQMKVLFVGNFLLTPVLHRQPHLQPCNFGPEVVAP  
QRL

>sp|O60688|YPEL1\_HUMAN Protein yippee-like 1 OS=Homo sapiens GN=YPEL1 PE=3 SV=1

MVKMTKSKTFQAYLPNCHRTYSCIHCRAHLANHDELISKSFQGSQGRAYLFNSVNVGCG  
PAEERVLLTGLHAVADIYCENCKTTLGWKYEHAFAESSQKYKEGKFIIELAHMIKDNGWE

>sp|P62699|YPEL5\_HUMAN Protein yippee-like 5 OS=Homo sapiens GN=YPEL5 PE=1 SV=1

MGRIFLDHIGGTRLFSCANDTILTNRSELISTRFTGATGRAFLFNKVNLQYSEVQDRV  
MLTGRHMVRDVSCKNCNKLGIWIEFATEDSQRYKEGRVILERALVRESEGFEHVPSDN  
S

>sp|Q6ZT83|YR005\_HUMAN Uncharacterized protein FLJ44881 OS=Homo sapiens PE=2 SV=1

MGALNSISLETNKSFSMSWTSPVEHSSGTARTLRCKLALVGFSSMSEFLFRASKTQPV  
TLFVPNVNSALCDQPVVRGVGIEQRKRNISSLISVFNHWLPLQLHLGRALICRFNSRG  
NFTCLMTAVK

>sp|Q8N3U1|YS014\_HUMAN Putative uncharacterized protein LOC400692 OS=Homo sapiens PE=2  
SV=2

MPDASLGSLGITWCFLFESPLEVSSGRFGLARLLGSQDHGDDPAERGRATDAWGPSRWGQ  
SPGNGGGYCDASPPSALAPGDRAWALPASPGGAPASQHCCLEKAGTRTKASPVWGRDGN  
TWN

>sp|Q96K80|ZC3HA\_HUMAN Zinc finger CCCH domain-containing protein 10 OS=Homo sapiens  
GN=ZC3H10 PE=1 SV=1

MPDRDSYANGTGSSGGGPGGGGSEEASGAGVSGGASSDAICRDFLRNVCKRGKRCRYRH  
PDMSEVSNLGVSKNEFIFCHDFQNKESRPNCRFIHGSKEDEDGYKKTGELPPRLRQKVA  
AGLGLSPADLPNGKEEVPICRDFLKGDCQRGAKCKFRHLQRDFEFDARGGGGTGGGSTGS  
VLPGRRHLDLYDIYDLPDRGFEDHEPGPKRRRGCCPPDGPHEFESYEYSLAPPRGVECRLL  
EEENAMLRKRVEELKKQVSNLLATNEVLLEQNAQFRNQAKVITLSSTAPATEQTLAPTVG  
TVATFNHGIAQTHTTLSSQALQRPVVSQELVAPAGAPAAPPTNAAPPAAPPPPPHLP  
EITPLSALAQTIAQGMAPPVSMAPVAVSVAPVAPVAVSMAQPLAGITMSHTTTPMVTY

PIASQSMRITAMPH

>sp|Q6PJT7|ZC3HE\_HUMAN Zinc finger CCCH domain-containing protein 14 OS=Homo sapiens  
GN=ZC3H14 PE=1 SV=1

MEIGTEISRKIRSAIKGLQELGAYVDEELPDYIMVMVANKKSQDQMTEDLSLFLGNNTI  
RFTVWLHGVLDKLRSVTTEPSSLKSSDTNIFDSNVPSNKS NFSRGDERRHEAAVPPLAIP  
SARPEKRDSRVSTSSQESKTTNVRQTYDDGAATRLMSTVKPLREPAPSEDVIDIKPEPDD  
LIDEDLNFVQENPLSQKKPTVTLTYGSSRPSIEIYRPPASRNADSGVHLNRLQFQQQQNS  
IHAAKQLDMQSSWVYETGRLCEPEVLNSLEETYSPPFRNNSEKMSMEDENFRKRKLPVVS  
SVVKVKKFNHDGEEEEEDDDYSGRTGSISSSVSVPAPKERRPSLPPSKQANKNLILKAIS  
EAQESVTKTTNYSTVPQKQTLVPAPRTRTSQEELLAAEVVQGGSRTPRISPPIKEEETKGD  
SVEKNQGTQQRQLLSRLQIDPVMAETLQMSQDYDMESMVHADTRSFILKKPKLSEEVVV  
APNQESGMKTADSLRVLSGHLMQTRDLVQPDKPASPKFIVTLDGVPSPPGYMSDQEEDMC  
FEGMKPVNQTAASNKGLRGLLHPQQLHLLSRQLEDPNGSFSAEMSELSVAQKPEKLLER  
CKYWPACKNGDECAYHHPI SPCKAFPNCKFAEKCLFVHPNCKYDAKCTKPDCTFYHPTIN  
IPVLSPKPAVAPPAPSSSQLCRYFPACKKMECPFYHPKHCRFNTQCTRPDCTFYHPTIN  
VPPRHALKWIRPQTSE

>sp|POCG32|ZCC18\_HUMAN Zinc finger CCHC domain-containing protein 18 OS=Homo sapiens  
GN=ZCCHC18 PE=3 SV=1

MASITACVGNRQQNAPLPPWAHSMRLSLGRSLCPLVVKMAERNMKLFSGRVVP AQGKET  
FENWLIQVNEVL PDWSMSEEEKLRLMKTLRGPAREVMRLLQAANPNLSVADFLRAMKLV  
FGESESSVTAHGKFFNTLQAQGEKASLYVIRLEVQLQNAIQAGILAEKDANQTRLQQLLL  
GAELNRDLRFRLKHLRLMYANKQERLPNFLELIKMIREEEDWDDAFIKRKRPKRSEPI ME  
RAASPVAFQGAQPIA ISSADCNCNVEIDDTLDDSDDEVILVVS LYPSTPTGAPPFRGR  
ARPLDQVLVIDSPNNSGAQSLSTSGSGYKNDGPGNIRRARKRKYTTTRCSYCGEEGHSKE  
TCDNESKAQVFENLIITLQELTHTEERSKEVPGEHSDASEPQ

>sp|Q6PEW1|ZCH12\_HUMAN Zinc finger CCHC domain-containing protein 12 OS=Homo sapiens  
GN=ZCCHC12 PE=1 SV=2

MASIIARVGNRRRLNAPLPPWAHSMRLSLGRSLGPIMASMADRNMKLFSGRVVP AQGEET  
FENWLTQVNGVLPDWNMSEEEKLRLMKTLRGPAREVMRVLQATNP NLSVADFLRAMKLV  
FGESESSVTAHGKFFNTLQAQGEKASLYVIRLEVQLQNAIQAGIIAEKDANRTRLQQLLL  
GGELSRDLRLRLKDFLRMYANEQERLPNFLELIRMVREEEDWDDAFIKRKRPKRSESMVE  
RAVSPVAFQGSPPIVIGSADCNVEIDDTLDDSDDEVILVESQDPLPSWGAPPLRDRAR  
PQDEVLVIDSPHNSRAQFPSTSGSGYKNNGPGEMRRARKRKHTIRCSYCGEEGHSKETC  
DNESDKAQVFENLIITLQELTHTEMERSRVAPGEYNDFSEPL

>sp|Q9C0B9|ZCHC2\_HUMAN Zinc finger CCHC domain-containing protein 2 OS=Homo sapiens  
GN=ZCCHC2 PE=1 SV=6

MLRMKLPKPTHPAEPPPEAEPEADARPGAKAPSRRRRDCRPPPPPPPPAGPSRGPLPP  
PPPPRGLGPPVAGGAAAGAMPGGGGPSAALREQERVYEWFGVLVLSAQRL EFMCGLLD  
LCNPLELRFLGSCLEDLARKDYHYLRDSEAKANGLSDPGPLADFREPAVRSRLIVYLALL  
GSENREAAGRLHRLLPQVDSVLKSLRAARGEGRGGAEDERGEDGDGEQDAEKDGS GPEG  
GIVEPRVGGGLSRAQEELLLLFTMASLHPAFS FHRVTLREHLERLRAALRGGPEDAEV  
EVEPCKFAGPRAQNN SAHGDMQNNESLIEQAPIQDGLTVAPHRAQREAVHIEKIMLK  
GVQRKRADKYWEYTFKVNWSDLSVTTVT KTHQELQEFLKLPKELSSETFDKTI LRALNQ  
GSLKREERRHPDLEPILRQLFSSSSQAF LQSQKVHSFFQSISSDSLHSINN LQSSSLKTSK

ILEHLKEDSSEASSQEEDVLQHAI IHKKHTGKSPIVNNIGTSCSPLDGLTMQYSENGIV  
DWRKQSCCTTIQHPEHCVTSADQHS AEKRLSSINKKKGKPQTEKEKIKKTDNRLNSRING  
IRLSTPQHAHGGTVKDVNLDIGSGHDTGETSSESYSSPSPRHGRESFESEEEKDRDT  
DSNSEDGPNSTTRFTGYGSVNQTVTVKPPVQIASLGNENGNLLEDPLNSPKYQHISFMP  
TLHCVMHNGAQKSEVVVPAPKPADGKTIGMLVPSVAISAIRESANSTPVGILGPTACTG  
ESEKHLELLASPLPI PSTFLPHSSTPALHLTVQRLKLPPPQGSSECTVNIPQQPPGSLS  
IASPNTAFIPIHNPGSFPGSPVATTDPI TKASQVVGLNQ MVPQIEGNTGTVPQPTNVKV  
VLPAAGLSAAQPPASYPLPGSPLAAGVLPSQNSSVLSTAATSPQPASAGISQAQATVPPA  
VPTHTPGPAPSPSPALHTHSTAQSDSTSYISAVGNTNANGTVVPPQQMGSGPCGSCGRCS  
CGTNGNLQLNSYYYPNMPGPMYRVPSFFTLPSICNGSYLNQAHQSNGNQLPFFLPQTPY  
ANGLVHDPVMG SQANYGMQMAGFRFYVPVYAPNVVANTSGSGPKNGNVSCYNCGVSG  
HYAQDCKQSSMEANQQGT YRLRYAPPLPPSNDTLD SAD

>sp|Q8N567|ZCHC9\_HUMAN Zinc finger CCHC domain-containing protein 9 OS=Homo sapiens  
GN=ZCCHC9 PE=1 SV=2

MTRWARVSTTYNKRPLPATSWEDMKKGSFEGTSQNLPRKQLEANRLSLKNDAPQAKHKK  
NKKKKEYLNEDVNGFMEYLRQNSQMVHNGQIIATDSEEVREEIAVALKKDSRREGRLKR  
QAAKKNAMVCFHCRKPGHGIADCPAALENQDMGTGICYRCGSTEHEITCKAKVDPALGE  
FPFAKCFVCGEMGLSRSCPDPKGLYADGGGCKLCGSVEHLKKDCPESQNSERMVTVGR  
WAKGMSADYEEILDVPKPKPKTKIPKVNF

>sp|Q96GR4|ZDH12\_HUMAN Probable palmitoyltransferase ZDHC12 OS=Homo sapiens GN=ZDHC12  
PE=2 SV=2

MAPWALLSPGVLVRTGHTVLTWGITLVFLHDTLRQWEEQGELLLPLTFLLLVLGSLLL  
YLAVSLMDPGYVNVQPQPQEELKEEQTAMVPPAIPLRRCRYCLVLQPLRARHCRECRRCV  
RRYDHHCPWMENCVGERNHPLFVVYLALQLVLLWGLYLAWSGLRFFQPWGQWLRSSGLL  
FATFLLLSLFSLVASLLLVSHLYLVASNTTTWEFISSHRIAYLRQPSNPFDRGLTRNLA  
HFFCGWPSGSWETLWAEIEEEGSSPAV

>sp|Q9NUE0|ZDH18\_HUMAN Palmitoyltransferase ZDHC18 OS=Homo sapiens GN=ZDHC18 PE=1 SV=2

MKDCEYQQISPGAAPLPASPGARRPGPAASPTPGPGPAPPAAPAPPRWSSSGSGSGSG  
SLGRRPRRKWEVFPGRNRFYCGGRLMLAGHGGVFALTLLILTTTGLFFVFDPCYLARKL  
TLAIPIIAAILFFFVMSCLLQTSFTDPGILPRATVCEAAALEKQIDNTGSSTYRPPPRTR  
EVLINGQMVKLYCFTCKMFRPRTSHCSVCNDCVERFDHHC PWGNCVGRNRYFFYAF  
ILSLSFLTAFIFACVVHTLTLRAQGSNFLSTLKETPASVLELVICFFSIWSILGLSGFHT  
YLVASNLTTNEDIKGSWSSKRGGEASVNPYSHKSIITNCCAVALCGPLPPSLIDRRGFVQS  
DTVLPSPIRSDEPACRAKPDASMVGGHP

>sp|Q9ULC8|ZDHC8\_HUMAN Probable palmitoyltransferase ZDHC8 OS=Homo sapiens GN=ZDHC8  
PE=1 SV=3

MPRSPGTRLKPAKYIPVATAAALLVGSSTLFFVFTCPWLTRAVSPAVPVYNGIIFLFLVA  
NFSMATFMDPGVFPRADEDEDKEDDFRAPLYKNVDVRGIQVRMKWCATCHFYRPPRCSHC  
SVCNDCVEDFDHHC PWNNCIGRRNRYFFLFLLSLSAHMVGVAAGLVVVLNHAEGLGA  
AHTTITMAVMCVAGLFFIPVIGLTGFHVVLVTRGRTTNEQVTGKFRGGVNPFTRGCCGNV  
EHVLCSPAPRYVVEPPRLPLAVSLKPPFLRPELLDRAAPLKVKLSDNGLKAGLGRSKSK  
GSLDRLDEKPLDLGPPLPKIEAGTFSSDLQTPRPGSAESALSVQRTSPPTPAMYKFRPA  
FPTGPKVPFCGPGEQVPGPDSLTLGDDSI RSLDFVSEPSLDLPDYGPGLHAAYPPSPPL  
SASDAFSGALRSLSLKASSRRGGDHVALQPLRSEGGPPTPHRSIFAPHALPNRNGSLSYD



SLLNPGSPGGHACPAHPAVGVAGYHSPYLHPGATGDPPRPLPRSFSPVLGPRPREPSPVR  
YDNLSTIMASIQERKDREERERLLRSQADSLFGDSGVYDAPSSYSLQQASVLESGPRGP  
ALRYGSRDDLAVAGPGFGGARNPALQTSLSLSSSVSRAPRTSSSSLQADQASSNAPGPRP  
SSGSHRSPARQGLPSPPGTTPHSPSYAGPKAVAFIHTDLPEPPPSLTVQRDHPQLKTPPSK  
LNGQSPGLARLGPATGPPGPSASPTRHTLVKKVSGVGTTYEISV

>sp|POC7U3|ZH11B\_HUMAN Probable palmitoyltransferase ZDHC11B OS=Homo sapiens GN=ZDHC11B  
PE=3 SV=1

MDTRSGSQCSVTPEAIRNNEELVLPPIRSRVNGWSLPLHYFRVVTWAVFVGLSLATFRIF  
IPLPHSWKYIAYVVTGGIFSFHLVVHLIASCIDPADSNVRLMKNYSQPMPLFDRSKHAH  
VIQNQFCHLCKVTYNKTKHCISCNKCVSFGDHHCKWINNCVGSRYWFFFSTVASATAG  
MLCLIAILLYVLVQVLVNPRLTDPYEDVKNMNTWLLFLPLFPVQVQTLIVVIIRMLV  
LLDLLGLVLQGLLIFHIYLKAKMTTFEYLINTRKEESSKHQAVRKDPYVQMDKGFLQ  
QGAGALGSSAQGVKAKSSLLIYKCPCHFCTSVNQDGDSCAQEADDAPSTSTLGLQQETTE  
PMKTDSESED

>sp|Q9NS37|ZHANG\_HUMAN CREB/ATF bZIP transcription factor OS=Homo sapiens GN=CREBZF PE=1  
SV=2

MRHSLTKLLAASGSNSPTRSESPAPAATCSLPSDLTRAAAGEEETAAGSPGRKQFGDE  
GELEAGRSGGVAVRAPSPPEEMEEAIASLPGEETEDMDFLSGLELADLLDPRQPDWHL  
DPGLSSPGPLSSSGGSDSGGLWRGDDDEAAAAEMQRFSDLLQRLNIGGCSSSDSG  
SAEKRRRSPGGGGGGSGNDNNQAATKSPRKAARLNRLKKKEYVMGLESVRGLA  
AENQELRAENRELGKRVQALQEESSRYLRAVLNETGLARLLSRLSGVGLRLTTSFRDSP  
AGDHDYALPVGKQKQDLLEEDSAGGVCLHVDKDKVSVEFCSACARKASSSLKM

>sp|O43296|ZN264\_HUMAN Zinc finger protein 264 OS=Homo sapiens GN=ZNF264 PE=1 SV=1

MAAAVLTDRAQVSVTFDDVAVTFTKEEWQQLDLAQRTLYQEVMLENCGLLVSLGCPVPA  
ELICHLEHGQEPWTRKEDLSQDTCPGDKGPKTTEPTTCEPALSEGISLQGVQVQNSVD  
SQLGQAEQDGLSEMGEHFRPGIDPQEKSPGKMSPECGLGTADGVCSRIGQEQVSPGD  
RVRSHNSCESGKDPMIQEEENNFKCECGKVFNNKHLLAGHEKIHSGVKPYECTECGKTF  
IKSTHLLQHMIHTGERPYECMECGKAFNRKSYLTQHQRHSGEKPYKCNECGKAFTHRS  
NFVLHNRHTGEKSFVCTECGVFRHRPGFLRHVVHSGENPYECLECGKVFKHRSYLMW  
HQQTHTGEKPYECSECGKVFLSAALIHVYIHTGEKPFECLECGKAFNHSYLRHQRI  
HTGEKPFVCECGKAFTHCSTFILHKRAHTGEKPFECLECGKAFSNRKDLIRHFSIHTGE  
KPYECVECGKAFTRMSGLTRHKRIHSGEKPYECVECGKFCWSTNLIRHAIHTGEKPYK  
CSECGKAFSRSSSLTQHQMHTGKNPISVTDVGRPFTSGQTSVTLRELLLGKDFLNVTE  
ANILPEETSSASDQPYQRETPQVSSL

>sp|Q14593|ZN273\_HUMAN Zinc finger protein 273 OS=Homo sapiens GN=ZNF273 PE=1 SV=3

MSSAPRGPPSVAPLPAGIGRSTAKTPGLPGSLEMPLTFRDVAIEFSLEEWQCLDTSQQN  
LYRNVMLDNRYNLVFLGIASVKPDLITCLEQGKEPCNMKRHAMVAKPPVVCSHFAQDLWP  
KQGLKDSFQKVLRRYGYGHENLQLRKGCKSADEHKVHKRGYNGLNQCLTTTQSKIFQC  
DKYVKVLHKFSNSNIHKKRQTGKKPFKCKECCGCCILSQLTQHKKATATRVNFYCKCTCG  
KAFNQFNLTKHKIHPVNPYKCEECGKAFNQSLTLTKHKIHTTEKPYKCEDCGKVFS  
VFSVLTKHKIHTGTKPYNCEECGKGFSTLTKHKIHTGEKPYKCNECGKAFNWSST  
LTKHKRIHTGEKPYKCEECGKAFNQSSTLTRHKIVHTGEKPYKCEECGKAFKRSTLTKH  
KRIYTKKPYKCEECGKAFSVFSTLTKHKIHTGAKPYKCEECGSAFRAFSTLTEHKRVH  
TGEKPYKCNECGKAFNWSSTLTKHKRIHTGEKPYKCEECGKAFNRSSNLTRHKIHTGEK

PYKPKRCDSAFDNTPNFSRHKRNHMGEKS

>sp|Q96GC6|ZN274\_HUMAN Neurotrophin receptor-interacting factor homolog OS=Homo sapiens  
GN=ZNF274 PE=1 SV=2

MASRLPTAWSCEPVTTFEDVTLGFTPEEWGLLDLKQKSLYREVMLENYRNLVSVEHQLSKP  
DVVSQLEEAEDFWPVERGIPQDTIPEYPELQLDPKLDPLPAESPLMNIEVVEVLTNLQEV  
AGPRNAQIQALYAEDGSLADAPSEQVQQQKHPGDPEAARQRFRQFRYKDMTGPREALD  
QLRELCHQWLQPKARSKEQILELLVLEQFLGALPVKLRTWVESQHPENCQEVVALVEGVT  
WMSEEEVLPAQQPAEGTTCCLEVTAAQQEEKQEDAAICPVTVLPEEPVTFQDVAVDFSREE  
WGLLGPTQRTEYRDVMLETFGHLVSVGWETTLENKELAPNSDIPEEPPAPSLKVQESSRD  
CALSSLTLEDTLQGGVQEVQDVTVLKQMESAQEKDLPQKKHFDNRESQANS GALDTNQVSLQ  
KIDNPESQANS GALDTNQVLLHKIPPRKRLRKRDSQVKS MKHNSRVKIHQKSCERQKAKE  
GNGCRKTF SRSTKQITFIRIHKGSQVCRCSECGKIFRNPRYFSVHKKIHTGERPYVCQDC  
GKGFVQSSSLTQHQRVHSGERPFECECGRTFNDRSAISQHLRTHTGAKPYKCQDCGKAF  
RQSSHLIRHQRTHTGERPYACNKGKAFQTSSHLIGHQRTHNRTKRKKKQPTS

>sp|Q8N7M2|ZN283\_HUMAN Zinc finger protein 283 OS=Homo sapiens GN=ZNF283 PE=2 SV=4

MESRSVAQAGVQWCDLGS LQAPPPGFTLFSCSLSSWDYSSGFSGCASPIEESHGALI  
SSCNSRTMTDGLVTRFDVAIDFSQEEWECLDPAQRDLVYDVMLENYSNLVSLDLESKTYE  
TKKIFSENDIFEINFSQWEMKDKSKTLGLEASIFRN NWCKSIFEGLKGHQEGYFSQMI I  
SYEKIPSYRKS KSLTPHQRIHNTEKSYVCKECKGACSHGSKLVQHERHTAEKHFECKEC  
GKNYLSAYQLNVHQRFHTGEKPYECKECKGTF SWGSSLVKHERIHTGEKPYECKECKGAF  
SRGYHLTQH QKIHTGVKSYCKECKGAFFWGSS LAKHEI IHTGEKPYCKECKGAFSRGY  
QLTQH QKIHTGKKPYECKICGKAFCWGYQLTRHQIFHTGEKPYECKECKGAFNCGSSLIQ  
HERIHTGEKPYECKECKGAFSRGYHLSQH QKIHTGEKPFECKECKGAFSWGSSLVKHERV  
HTGEKSHECKECKGTFCSGYQLTRHQVFHTGEKPYECKECKGAFNCGSSLVQHERIHTGE  
KPYECKECKGAFSRGYHLTQH QKIHTGEKPFCKECKGAFSWGSSLVKHERVHTNEKSYE  
CKDCGKAFGSGYQLSVHQRFHTGEKLYQRKEFGKTFTCGSKLVHERTHSNDKPKYNECG  
EAFLWTTYSNEKIDTDEL

>sp|Q8N8H1|ZN321\_HUMAN Putative protein ZNF321 OS=Homo sapiens GN=ZNF321P PE=5 SV=3

MMKEFSSTAQGNTEVIHTGTLQRHESHHIRDFCFQEIEKDIHNFEFQWQEEERNGHEAPM  
TEIKELTGSTDRHDQRHAGNKPIKDQLGSSFHSHLP EHLHFQPEWKIGNQVEKSIINASL  
ILTSQRISCS PKTRISNNYGNNSLHSSLPIQKLGSTHERKIFPM

>sp|Q96JL9|ZN333\_HUMAN Zinc finger protein 333 OS=Homo sapiens GN=ZNF333 PE=2 SV=3

MESVTFEDVAVEFIQEWALLDSARRSLCKYRMLDQCRTLASRGTPPCKPSCVSQLGQRAE  
PKATERGILRATGVAWESQLKPEELPSMQDLLEEASSRDMQMGPGLFLRMQLVPSIEERE  
TPLTREDRPA LQEPWSLGCTGLKAAMQIQRVVIPVPTLGH RNPWVARDSAVPARDPAWL  
QEDKVEE EAMAPGLPTACSQEPVTFADVAVVFTPEEWVFLDSTQRSLYRDVMLENYRNLA  
SVADQLCKPNALSYLEERGEQWTTDRGVLSDTCAEPQCQPQEAIPSQDTFTEILSIDVKG  
EQPQPGEKLYKYNELEKPFNSIEPLFYQRIHAGEASCECQEIRNSFFQSAHLIVPEKIR  
SGDKSYACNKCEKSFYSSDLIRHEKHTAEKCFDCQECGQAFKYSSNLRRHMRTHTGEK  
PFECSCQCGKTFTRNFNLILHQRNHTGEKPYECKDCGKA FNQPSSLRSHVRTHTGEKPFEC  
SQCGKA FREHSSLKTHLRTHTREKPYECNQCGKPFRTSTHLNVHKRIHTGEKLYECATCG  
QVLSRLSTLKSHMRTHTGEKPYVCQECGRAFSEPSSLRKHARTHSGKKPYACQECGRAFG  
QSSHLIVHVRTHSAGRPYQCNQCEKA FRHSSSLTVHKRTHVGRETIRNGSLPLSM SHPYC  
GPLAN

>sp|Q9H4Z2|ZN335\_HUMAN Zinc finger protein 335 OS=Homo sapiens GN=ZNF335 PE=1 SV=1

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DRGSRSQEEVSESSSSADPLPNSYLPDSSSVSHGPVAGVTGGPPALVHSSALPDPNMLVS  
DCTASSSDLGSAIDKIIESTIGPDLIQNCITVTS AEDGGAETTRYLILQGPDDGAPMTSP  
MSSSTLAHSLAAIEALADGPTSTSTCLEAQGGPSSPVQLPPASGAEEPDLQSLEAMMEVV  
VVQQFKCKMCQYRSSTKATLLRHMRRERHFRPVAAAAAAGKKGRLRKWTSTKSQEEEGP  
EEEDDDDIVDAGAIDDEEDSDYNPAEDEPRGRQLRLQRPTSTPRPRRRPGRPRKLPRL  
EISDLPDGVEGEPLVSSQSGQSPPEPQDPEAPSSSGPHLVAMGKVSRTPEAGVSQSDA  
ENAAPSCPDEHDTLPRRRGRPSRRFLGKKYRKYYYKSPKPLLRPFLCRICGSRFLSHEDL  
RFHVNSHEAGDPQLFKCLQCSYRSRRWSSLKEHMFNHVGSKPYKCDECSYTSVYRKDVIR  
HAAVHSRDRKKRPDPTPKLSSFPVPCVGRVYPMQKRLTQHMKTHSTEKPHMCDKCGKSFK  
KRYTFKMHLTHIQAVANRRFKCEFCFVCEDEKALLNHQLSHVSDKPFKCSFCPYRTFR  
EDFLLSHVAVKHTGAKPFACEYCHFSTRHKKNLRLHVRCHASSFEEWGRRHPEEPPSRR  
RPFFSLQQIEELKQHSAAAGPPPSSPGPEIPPEATTFSSEAPSLCSDTLGGATIIY  
QQGAEESTAMATQTALDLLNMSAQRELGGTALQVAVVKSEDEAGLASPGGQPSPEGAT  
PQVVTLHVAEPGGGAAAESQLGPPDLQITLAPGPFGGTGYSVITAPPMEEGTSAPGTPY  
SEEPAGEAAQAVVSDTLKEAGTHYIMATDGTQLHHIELTADGSISFSPDALASGAKWP  
LLQCGGLPRDGPEPPSPAKTHCVGDSQSSASSPPATSKALGLAVPPSPSAATAASKKFS  
CKICAEAFPGAEMESHKRAHAGPGAFKCPDCPFSARQWPEVRAHMAQHSSLRPHQCSQC  
SFASKNKKDLRRHMLTHTKEKPFACHLCGQRFNRNGHLKFHIQRLHSPDGRKSGTPTARA  
PTQTPTQTIILNSDETLATLHTALQSSHGVLGPERLQQALSQEHIIVAQEQTVTNQEEA  
AYIQEITTADGQTVQHLVTSNQVYIISQDGVQHLLPQEYVVVPEGHHIQVQEGQITHI  
QYEQGAPFLQESQIQYVPVSPGQQLVTQAQLEAAAHSAVTAVADAAMAQAQGLFGTDETV  
PEHIQQLQHGGIEYDVITLADD

>sp|Q9BYN7|ZN341\_HUMAN Zinc finger protein 341 OS=Homo sapiens GN=ZNF341 PE=1 SV=2

MAQAIFEALGMDNQTVLAVQSLLDGQAVPDPTGQSVNAPPAIQPLDDEDVFLCGKCKK  
QFNSLPAFMTHKREQCQGNAPALATVSLATNSIYPPSAAPTAVQQAPTPANRQISTYITV  
PPSPLIQTLVQGNILVSDDVLSAMS AFTSLDQMPQGGPPPVQSSLNMHSVPSYLTQPPP  
PPPPPPPLPPPPPPPPPPPPQSLGPPGRPNPGNGVVEVYSAAAPLAGSGTVEIQALGM  
QPYPPLEVPNQCEPPVYPTPTVYSPGKQGFKPKGNPAAPMTSATGGTVATFDSPATLK  
TRRAKGARGLPEAAGKPKAKLKCSYCDKSFTKNFDLQQHRSHTGEKPFQCIACGRAFA  
QKSNVKKHMQTHKVVPPGHSGGTVSRNSVTQVMALNPSRQEDEESTGLGQPLPGAPQPQ  
ALSTAGEEEGDKPESKQVVLIDSSYLCQFCPSKFSTYFQLKSHMTQHKNEQVYKCVKSC  
AQTFPKLDTFLEHIKSHQEELSYRCHLCGKDFPSLYDLGVHQYSHSLLPQHSPKKNNAVY  
KCVKCVNKYSTPEALEHHLQTATHNFPCHPCQKVFPCERYLRRHLPTHGSGGRFKCQVCK  
KFFRREHYLKLHAHIHSGEKPYKCSVCESAFNRKDKLRHMLIHEPFKKYKCPFSTHTGC  
SKEFNRPDKLKAHILSHSGMKLHKCALCSKFSRRRAHLAEHQRAHTGNYKFRACAGCAKGF  
SRHKYLDHRCRLGPQKDKDLQTRPPQRRRAAPRSCGSGGRKVLTPLPDPLGLEELKDTG  
AGLVPEAVPGKPPFAEPDAVLIVVGGAVGAETELVVPGHAEGLGSNLALAEQAAGEGP  
CAMLAVPVYIQASE

>sp|Q8NA42|ZN383\_HUMAN Zinc finger protein 383 OS=Homo sapiens GN=ZNF383 PE=2 SV=1

MAEGSVMFSDVSI DFSQEEWDCLDPVQRDLYRDVMLENYGNLVSMGLYTPKPQVISLLEQ  
GKEPMMVGRELTRGLCSDLESMCETKLLSLKKEVYEIELCQREIMGLTKHGLEYSFQDV  
LEYRSHLAKQLGYPNGHFSQEIFTPEYMPFTFIQQTFLTLHQIINNEDRPYECKKCGKAFS

QNSQFIQHQRHIGESYECKECGKFFSCGSHVTRHLKIHTGEKPFECKEKGKAFSCSSY  
LSQHQRHITGKKPYECKEKGAFSYCSNLIDHQRHITGEKPYECKVCGKAFTKSSQLFQH  
ARIHTGEKPYECKEKGKAFQSSSLVQHQRHITGEKPYECKEKGKAFSSGSALTNHQRH  
TGEKPYDCKEKGKAFQSSQLRQHQRHIGEKPFECLECGKAFQNSQLFQHQRHITDEK  
PYECNECGKAFNKCNSLTRHLRIHTGEKPYNCKEKGKAFSSGSDLRHQGIHTNK

>sp|Q96N95|ZN396\_HUMAN Zinc finger protein 396 OS=Homo sapiens GN=ZNF396 PE=1 SV=2  
MSAKLGKSSSLTQTSEECNGILTEKMEEEEQTCDDSSLHWSSSYSPETFRQQFRQFGY  
QDSPGPHEALSRLWELCHLWLRPEVHTKEQILELLVLEQFLAILPKELQAWVQKHHHPENG  
EETVTMLDEDVERELDGPKQIFFGRRKDMIAEKLAPSEITEELPSSQLMPVKQLQGASWE  
LQSLRPHEDEIKTTNVKSASRQKTSLGIELHCNVSNILHMNGSQSSTYRGTYEQDGRFEK  
RQGNPSWKKQKQKDECGKIFSQSALILHQRHISGKKPYACDECAKAFSRSAAILIQHRRT  
HTGEKPYKCHDCGKAFSQSSNLFRRHRKRHIRKKVP

>sp|Q8TF32|ZN431\_HUMAN Zinc finger protein 431 OS=Homo sapiens GN=ZNF431 PE=2 SV=2  
MDDLKYGVYPLKEASGCPGAERNLLVYSYFEKETLTFRDVAIEFSLEEWELNPAQQNLY  
MNVMLENYKNLVFLGVAVSKQDPVTCLEQEKEPWNMKRHEMVDEPPAMCSYFTKDLWPEQ  
DIKDSFQQVILRRYGKCEHENLQLRKGSASVDEYKVHKEGYNELNQCLTTTQSKIFPCDK  
YVKVFHKFLNANRHKTRHTGKKPFKCKCGKSFCMLLHLSQHKRIHIRENSYQCEECGKA  
FKWFSTLTRHKRIHTGEKPFKCEECGKAFKQSSTLTTHKIHTGEKPYRCEECGKAFNRS  
SHLTTHKIHTGEKPYKCEECGKAFNQSSTLSTHKFIHAGEKPYKCECDKAFNRFSYLT  
KHKIHTGEKSYKCEECGKGFNWSSTLTCHKRIHTGEKPYKCEVCGKAFNESSNLTHKM  
IHTGEKPYKCEECGKAFNRSPQLTAHKIHTGEKPYKCEECGKAFSQSSILTTHKRIHTG  
EKPYKCEECGKAFNRSSNLTKHKIHTGEKSYKCEECGKAFNQSSTLTKHRKIHTRQKPY  
NCEEDNTFNQSSNLIKQNNSYWRETLMQSRMWESL

>sp|Q8N7K0|ZN433\_HUMAN Zinc finger protein 433 OS=Homo sapiens GN=ZNF433 PE=1 SV=1  
MMFQDSVAFEDVAVTFTQEEWALLDPSQKNLCRDVMQETFRNLASIGKKWKPNIIYVEYE  
NLRRNLRIVGERLFESKEGHQHGEILTQVPDDMLKTTTGVKSCSSVYGEVGSASHSLN  
RHIRDDTGHKAYEYQEYQKPYKCKYCKKPFNCLSSVQTERAHSGRKLYVCEECGKTFI  
SHSNLQRHRIMHRGDGPYKCKFCGKALMFLSLYLHKRTHTEKPYQCKQCGKAFSHSS  
LRIHERHTGEKPYKNECGKAFHSSTCLHAHKRTHTEKPYECKQCGKAFSSSHSFQIH  
ERTHTGEKPYECKEKGKAFKCPSSVRRHERTHSRKKPYECKHCGKVLSTLSFQNLGMH  
TGEISHKCKICGKAFYSPSSLQTHEKTHTGEKPYKCNQCGKAFNSSSFYRHERHTHTGEK  
PYECKQCGKAFRSASLLQTHGRTHTEKPYACEKCGKPFNSFFQIHERMHREEKPYEC  
KGYGKTFSLPSLFHRHERHTHTGGKTYECKQCGRSFNCSSSFYHGRTHTEKPYECKQCG  
KAFRSASQLQIHGRTHTEKPYECKQCGKAFGSASHLQMHGRTHTEKPYECKQCGKSFG  
CASRLQMHGRTHTEKPYKCKQCGKAFGCPSNLRRHGRTHTEKPYKCNQCGKVFRCCSSQ  
LQVHGRAHCIDTP

>sp|Q9NWS9|ZN446\_HUMAN Zinc finger protein 446 OS=Homo sapiens GN=ZNF446 PE=1 SV=1  
MPSPLGPPCLPVMDEPETTLEETARLRFRGFCYQEVAGPREALARLRELCCQWLQPEAH  
SKEQMLEMLVLEQFLGTLPEIQAWVRGQRPGSPPEAAALVEGLQHDPGQLLGWITAHVL  
KQEVLPAAQKTEEPLGSPHPSGTVESPGEGPDTRIEGSVQLSCSVKEEPNVDGQEVAPS  
SPPLAAQSPEGNHGHQEPASTSFHPPRIQEEWGLLDRSQKELYWDAMLEKYGTVVSGLP  
PHQPEAAQSELGMLLTGTGVCRLSRSGNESEGPPGCPPEAQQPGPAWEGLSGAATP  
APTVRPGTPPVPTQPTPAETRLPEAATPRKPYTCEQCGRGFDWKS FVIHHRTHTS GPGV  
QSPGLATGESTEKPPQGEVAFPHHPRRSLTGPRSYPCEECGCSFSWKSQ LVIHRKSHTGQ

RRHFCSDCGRAFDWKSQQLVIHRKGHRPEVP

>sp|Q6S9Z5|ZN474\_HUMAN Zinc finger protein 474 OS=Homo sapiens GN=ZNF474 PE=2 SV=1  
MERGKKKRISNKLQQTFFHHSKEPTFLINQAGLLSSDSYSSLSPETESVNPGENIKTDTQK  
KRPGTVILSKLSSRRRISESQLSPPVIPARRPGFRVCYICGREFGSQSIATHEPQCLQKW  
HIENSKLPKHLRRPEPSKPSLSSSGSYSLQATNEAAFQSAQAQLLPCESCGRFTLPDHL  
LVHHRSCPKGEGPRAPHSNSSDHLTGLKKACSGTPARPRTVICYICGKEFGTSLPIHE  
PKCLEKWKMEENDRLPVELHQPLPQKPQLPNAQSSQAGPNQAQLVFCPHCSRIFTSDRLL  
VHQRSCKTHPYGPKYQNLNLGSKGGLKEYTNSKQQRNRAAPSVTDKVIHATQDALGEPGG  
ALCL

>sp|Q96JC4|ZN479\_HUMAN Zinc finger protein 479 OS=Homo sapiens GN=ZNF479 PE=2 SV=1  
MAKRPGPPGSRMGLLTFRDIAIEFSLEEWQCLDCAQRNLYRDVMLENYRNLVSLGIAVS  
KPDLLITCLEQNKESQNIKRNEVAKHPVTRSHFTQDLQPEQGIDSLQKVIPTRYGKCGH  
EKLQFKKCKSVGEYEVHKGGYSEVNQCLSTTQNKIFQTHKYVKVFGKFSNSNRDKTRYT  
GNKHFCKNKYKGSFCLSHLNQHQVIHTREKSYKCECGKSFNCSSNHTTHKIHTGEKP  
YRCEECGKAFSWSANLTRHKRHTGEKPYTCEECGQAFRRSSALTNHKRIHTGERPYKCE  
ECGKAFSVSSTLTDHKRIHTGEKPCRCEECGKAFSWSSNLTRHKRIHTREKPYACEECGQ  
AFSLSSNLMRHRRIHTGEKPYTCEECGQDFRRSSALTIHKRIHTGERPYKCEECGVFSL  
SSTLTDHKRIHTGERPYKCEECGKAFLSSTLTDHKRIHTGERPYTCEECGKAFCSSSTL  
MQHKRIHTGEKPYKCEECQAFKWHSSSLAKHKIHTGEKPYKCE

>sp|Q8TF39|ZN483\_HUMAN Zinc finger protein 483 OS=Homo sapiens GN=ZNF483 PE=1 SV=3  
MQAVVPLNKMTAISPEPQTLASTEQNEVPRVVTSGEQEAILRGNAADAESFRQRFRWFCY  
SEVAGPRKALSQWLWELCNQWLRPDITKEQILELLVFEQFLTILPGEIRIWVKSQHPES  
EEVVTLIEDLTQMLEEKDPVSQDSTVSQEENSKEDKMTVCPNTESCESITLKDVAVNFS  
RGEWKKLEPFQKELYKEVLLENLRNLEFLDFPVSKLELISQLKWVLPWLLEEVSKSSRL  
DESALDKIIERCLRDDDHGLMEESQYCGSSEEDHGNQGNQSKGRVAQNKTLGSGSRGKKF  
DPDKSPFGHNFKETSDLIKHLRVYLRKKSRRYNESKKPFSFHSDDLNRKEKTAGEKSRK  
SNDGGKVLSSHSSALTEHQKRQKIHLGDRSQKCSKCGIIFIRRTLRRKTPMCEKCRKDS  
CQEAALNKDEGNESGEKTHKCSKCGKAFGYSASLTKHRRRIHTGEKPYMCNECGKAFLSDSS  
SLTPHHRTHSGEKPFCDDCGKGFTLSAHLIKHQRIHTGEKPYKCKDCGRPFSDSSSLIQ  
HQRIHTGEKPYTCSNCGKSFSSSSLSKHQRIHTGEKPYKCGECGKAFRQNSCLTRHQRI  
HTGEKPYLCNDCGMTFSHTSVIYHQLHSGEKPYKCNQCEKAFPTHSLSRHQRIHTGV  
KPYKCECGKSFSSSLNEHHRRIHTGEKPYECNYCGATFSRSSILVEHLKIHTGRREYE  
CNECEKTFKSNSGLIRHRGFHSAE

>sp|Q96H40|ZN486\_HUMAN Zinc finger protein 486 OS=Homo sapiens GN=ZNF486 PE=2 SV=4  
MPGPLRSLEMSLQFRDVAVEFSLEEWCLDTAQQLYRDVMLENYRHLVFLGIIVSKPD  
LITCLEQGKPLTKRHEMIAKPPVVCSHFAQDLWPEQSIKDSYQKVIILKFEKCGHGNL  
HFKKGCESVDECKLHKRGYNGLNQLTTTQSKIFQCGKYVKVFHQFSNSKRHKRRHTEKK  
PLKYIEGDKAFNQSSHTTHKKIDTGEKPYKCEECGKAFLNRSSHLTTHKIHTREKPYK  
EECGKVFYKFSSTTHKKIHSGEKPYICEECGKAFMYPYTLTTHKIHTGEQPYKCKECD  
KAFNHPATLSSHKKIHTGEKPYTCDKCGKAFISSSILSKEKIHTGEKPYKCEECGAFT  
RSSHLTMHKIHTGEKPYKCEECGAFTWSAGLHKHRRHTHTGEKPYKCEECGKAYTTSSN  
LTEHKTHTHTGEKPYKCECGKAFNWSSDLNKHKRIHIGQKPRT

>sp|Q96MN9|ZN488\_HUMAN Zinc finger protein 488 OS=Homo sapiens GN=ZNF488 PE=1 SV=1  
MPPEWPPCLSVAPALVITMAAGKGAPLSPSAENRWRLSEPELGRGCKPVLLEKTNRLGPEA

AVGRAGRVDVGS AELALLVAPGKPRPGKPLPPKTRGEQRQSAFTELPRMKDRQVDAQAQR  
EHDDPTGQPGAPQLTQNI PRGPAGSKVFSVWPSGARSEQRSAFSKPTKRPAERPELTSVF  
PAGESADALGELSGLNTTDLACWGRLSTPKLLVGD LWNLQALPQNAPLCSTFLGAPTLW  
LEHTQAQVPPSSSTTSWALLPPTLTSLGLSTQNWCAKCNLSFRLTSDLVFHMRSHHKK  
EHAGPDPHSQKRREEALACPVCQEHFRERHHLSRHMTSHS

>sp|Q9P255|ZN492\_HUMAN Zinc finger protein 492 OS=Homo sapiens GN=ZNF492 PE=2 SV=2  
MLENYRNLVFGIAASKPDLITCLEQGKEPWNVKRHEMVAEPPVVC SYFARDLWPKQGKK  
NYFQKVILRRYKCKGCENLQLRKYCKSMDECKVHKECYNGLNQCLTTTQNKIFQCDKYVK  
VFHKFSNSNRHTIRHTGKKSFKCKECEKSF CMLSHLAQHKKRIHSGEKPYKCKECKGAYNE  
TSNLSTHKRIHTGKKPYKCEECGKAFNRLSHLTTHKI IHTGKKPYKCEECGKAFNQSANL  
TTHKRIHTGEKPYKCEECGRAFSQSSTLTAHKI IHAGEKPYKCEECGKAFSQSSTLTTHK  
I IHTGEKPYKCEECGKAFSQSLTTHKRIHSGEKPYKCEECGKAFQSSTLTTHKRIHA  
GEKPYKCEVCSKAFSRFSHLTTHKRIHTGEKPYKCEECGKAFNLSSQLTTHKI IHTGEK  
YKCEECGKAFNQSSTLSKHVIHTGEKPYKYEECGKAFNQSSTLTTHKMIHTGEKPYKCE  
ECGKAFNNSILNRHKMIHTGEKLYKPESCNNACDNI AKISKYKRN CAGEK

>sp|Q96IT1|ZN496\_HUMAN Zinc finger protein 496 OS=Homo sapiens GN=ZNF496 PE=1 SV=1  
MPTALCPRLAPKESEEPRKMRSPPGENPSPQGELSPESSRRLFRFRYQEAAGPREAL  
QRLWDL CGGWL RPERHTKEQILELLVLEQFLAILPREIQSWVRAQEPESGEQAVAAVEAL  
EREPRGWQWLKHCEDPVV IDGDSPLDQEQEQLPVEPHSDLAKNQDAQPITLAQCLGLP  
SRPPSQLSGDPVLQDAFLQEEENV RDTQQVTTLQLPPSRVSPFKDMILCFSEEDWSLLDP  
AQTFGYGEFIIGEDYGVSMPPNDLAAQPDLSQGEENEPRVPELQDLQGEVPQVSYLDSP  
SLQPFQVEERRKREELQVPEFQACPQTVVPQNTYPAGGNPRSL ENSLDEEVTIEIVLSSS  
GDEDSQHGPYCTEELGSPTEKQRS LPASHRSSTEAGGEVQTSKKSIVCPNCGKIFRWRVN  
FIRHLRSRREQEPHECSVCGELFSDSEDLDGHLESHEAQKPYRCGACGKS FRLNSHLLS  
HRRILHLPDR LQPV EKREQAASEDADKGPKPEL ENGKAKLSFQCCECGKAFQRHDHLARH  
RSHFHLKDKARPFQCRYCVKSFTQNYDLLRHERLHMKRRSKQALNSY

>sp|Q6ZMY9|ZN517\_HUMAN Zinc finger protein 517 OS=Homo sapiens GN=ZNF517 PE=2 SV=2  
MAMALPMPGPQEA VVFEDVAVYFTRIEWSCLAPDQ QALYRDVMLENYGNLASLGFLVAKP  
ALISLLEQGEEPGALILQVAEQSVAKASLCTDSRMEAGIMESPLQRKLSRQAGLP GTVWG  
CLPWGHPVGGHPAPPHPHGGPEDGSDKPTHPRAREHSASPRVLQEDLGRPVGSSAPRYRC  
VCGKAFRYNSLLLRHQI IHTGAKPFQCTECGKAFKQSSILLRHQLIHTEEKPFQCGECGK  
AFRQSTQLAAHHRVHTRERPYACGECGKAFSRSSRL LQH QKFHTGEKPFACTECGKAFCR  
RFTLNEHGRIHSGERPYRCLRCGQRFIRGSSLLKHHRLHAQEGAQDGGVGQ GALLGAAQR  
PQAGDPPHECPVCGRPFRHNSLL LHLRLHTGEKPF ECAECGKA FGRKSNLTLHQKIHTK  
EKPFACTECGKAFRRSYTLNEHYRLHSGERPYRCRACGRACSR LSTLIHQKVHGREPGE  
DTEGRRAPCWAS

>sp|Q8N782|ZN525\_HUMAN Zinc finger protein 525 OS=Homo sapiens GN=ZNF525 PE=2 SV=2  
MSSLTYHHLHTGEKPYKCEECDKAFRHNSALQRHRIHTGEKPHKCN ECGKTFSQKSYL  
ACHRSIHTGKKPYECEECDKAFSFKSNLESHRITHTGEKPYKCNDCGKTFSHMSTLTCHR  
RLHTGEKPYKCEECDKAFRKSLSLERHRIHNGEKLYKCN ECGKTFSQELSLTCHCRLHS  
GEKPCKCGECDKAYSFK

>sp|Q8NB42|ZN527\_HUMAN Zinc finger protein 527 OS=Homo sapiens GN=ZNF527 PE=2 SV=2  
MAVGLCKAMSQGLVTRDVALDFSQEEWELKPSQKDL YRDVMLENYRNLVWLGLSISKP  
NMISLLEQGKEPVMVERKMSQGH CADWESWCEIEELSPKWFIDEDEISQEMVMERLASHG

LECSSFREAWKYKGEFELHQNAERHFMQVTAVKEISTGKRDNEFSNSGRSIPKSVFLT  
QQKVPTIQQVHKFDIYDKLFPQNSVIEYKRLHAEKESLIGNECEEFNQSTYLSKDIGIP  
PGEKPYESHDFSKLLSFHSLFTQHQTTHFGKLPHGYPECGDAFSCYSFFTQPQRIHSGEK  
PYACNDCGKAFSHDFLSEHQRTHIGEKPYECKECNKAFRQSAHLAQHQRIHTGEKPFAC  
NECGKAFSRYAFLVEHQRIHTGEKPYECKECNKAFRQSAHLNQHQRHTGEKPYECNQCG  
KAFSRRIALTLHQRIHTGEKPFKCECGKTFGYRSHLNQHQRHTGEKPYECIKCGKFFR  
TDSQLNRHHRHTGERPFECSCGKAFSDALVLIHHRSHAGEKPYECNKGKAFSCGSY  
LNQHQRHTGEKPYECSECGKAHQILSLRLHQRIHAGEKPYKCNECGNNFSCVSALRRH  
QRIHNRETL

>sp|Q8NDQ6|ZN540\_HUMAN Zinc finger protein 540 OS=Homo sapiens GN=ZNF540 PE=1 SV=1

MAHALVTFRDVAIDFSQKEWECLDTTQRKLYRDVMLENNLVSLGYSGSKPDVITLLEQ  
GKEPCVAVDVTGRQCPGLSRHKTKKLSSEKDIHEISLSKESIIEKSKTLRLKGSIFRN  
EWQNKSEFEGQQGLKERSISQKKIVSKKMSTRKRPSFTLNQRIHNSEKSCDShLVQHKG  
IDSDVKHDCKECGSTFNNAVYQLTLHQKIHTGEKCKCEKCGKVFShSYQLTLHQRFTGE  
KPYECQECGKTFTLYPLNRHQKIHTGKKPYMCKKCDKGFFSRLELTQHRIHTGKKSYE  
CKEKGKVFQLIFYFKEHERIHTGKKPYECKECGKAFSVCGQLTRHQKIHTGVKPYECKEC  
GKTFRLSFYLTEHRRTHAGKKPYECKECGKSFNVRGQLNRHKTHTGKIPACKVCEKAF  
SYSGDLRVHSRIHTGEKPYECKECGKAFLRSVLTEHQLRHTGVKPYECKECGKTFRVRS  
QISLHKKIHTDVKPYKVCRCGKTFRFGFYLTQHRIHTGEKPYCKECKGAFIRRGNLKE  
HLKIHSGLKPYDCKECKGSFSRRGQFTEHQKIHTGVKPYCKECKGAFSRSVDLRIHQRI  
HTGEKPYECKQCGKAFLNSHLTEHQRIHTGEKPYECKVCRKAQRQYSHLYQHQTHTNVI

>sp|Q9H963|ZN702\_HUMAN Putative zinc finger protein 702 OS=Homo sapiens GN=ZNF702P PE=5  
SV=2

MREKSFQCNESGKAFNCSSLLKKCQIHLGEKKYKCDICGKVFNQKRYLAYHHRCHTGEK  
PYKCNQCGKTFSYKSSLVIHKAHTGEKPHKCNCEGKVFNQKAYLASHHRLHTGEKPYKC  
EECDKVFSR

>sp|Q9Y462|ZN711\_HUMAN Zinc finger protein 711 OS=Homo sapiens GN=ZNF711 PE=1 SV=2

MDSGGSLGLHTPDSMAHTMIMQDFVAGMAGTAHIDGDHIVVSPEAVLVSDVTTDDGI  
TLDHGLAAEVVHGPDIITETDVTEGVIVPEAVLEADVAIEEDLEDDGDHILTSELITE  
TVRVPEQVFVADLVTGPNHLEHVVDQCVSGVDSPTMVSEEVLTNSDTETVIAAGGVP  
GSTVTIKTEDDDDDVKSTSEDYLMISLDDVGEKLEHMGNTPLKIGSDGSQEDAKEDGFG  
SEVIKVIYFKAAEEDDVEIGGTEIVTESEYTSGHVSAGVLDQSRMQREKVMYMAVKDSSQ  
EEDDIRDERRVSRRYEDCQASGNTLSALESRSSTAAYLQICDGINTNKVLKQKAKKRR  
RGETRQWQTAVIIGPDGQPLTVYPCHICTKKFKSRGFLKRHMKNHPDHLMRKKYQCTDCD  
FTTNKKVSFHNHLESHKLINKVDKTHEFTEYTRRYREASPLSSNKLILRDKEPKMHCKY  
CDYETAEGLLNRHLLAVHSKNFPVCECGKGRHPSSELKHMRTHTGEKPYQCQYCF  
RCADQSNLKTHIKSHGNNLPYKCEHCPQAFGDERELQRHLDLFQGHKTHQCPHCDHKST  
NSSDLKRHIISVHTKDFPHKCEVCDKGFRHPSSELKKHSDIHKGRKIHQCRHCDFKTSDPF  
ILSGHILSVHTKDQPLKCRCKRGFRQQNELKKHMKTHTGRKIYQCEYCEYSTTASGFK  
RHVISIHTKDYPHRCEFCCKGFRRPSEKNQHIMRHHKEALM

>sp|Q7Z2F6|ZN720\_HUMAN Putative protein ZNF720 OS=Homo sapiens GN=ZNF720 PE=2 SV=1

MGLLTFRDVAIEFSREEWEHLSDQKLLYGDVMLENYGNLVSLGLAVSKPDLITFLEQRK  
EPWNVKSAETVAIQPDFISHDTQGLLRKKLIEASFQKVILDGYGSCGPQNLNRKEWESE  
GKIILW

>sp|PODKX0|ZN728\_HUMAN Zinc finger protein 728 OS=Homo sapiens GN=ZNF728 PE=3 SV=1

MGSLTFRDVAIQFSLEEWQCLDTAQQLYRNVMLENYRNLVFLGIAAPKPDLIIFLEQ GK  
EPWNMKRHELKVEPPVICSHFAQDLWPEQGREDSFQKVILRRYEKCGHENLQLKIGCTNV  
DECKVHKKGYNKLNQSLTTTQSKVFQCGKYANIFHKCSNSKRHKIRHTGKLLKCKEYVR  
SFCMLSHLSQHKRIYTRENSYKSEEHGKAFNWSSALTYKRIHTGEKPCKEECGKAFSKF  
SILTKHKVIHTGEKHYKCEECGKAFTRSSSLIEHKRSHAGEKPYKCEECGKAFSKASTLT  
AHKTIHAGEKPYKCEECGKAFNRSSNLMEHKRIHTGEKPCKEECGKAFGNFSTLTKHKV  
IHTGEKPYKCEECGKAFSWPSSLTEHKRIHAGDKPYKCEECGKTFKWSSTLTKHKI IHTG  
EKPYKCEECGKAFTTFSSLTKHKVIHTGEKHYKCEECGKVFSSWSSLTTHKAIHAGEKLY  
KCEECGKAFAKWSNLMEHKRIHTGEKPYKCEECGKAFSKANLTKHKVIHTGEKQYKCEE  
CGAFIWSRSLSEHKRIHTGEKPYKCEECGKAFSWVSVLNKHKI IHAGKKFYKCEECGKD  
FNQSSHLTTHKRIHTGGKTLQM

>sp|Q8NDX6|ZN740\_HUMAN Zinc finger protein 740 OS=Homo sapiens GN=ZNF740 PE=1 SV=1

MAQASLLACEGLAGVSLVPTAASKKMMLSQIASKQAENGERAGSPDVLRCSSQGHRKDSD  
KRSRKRDDDSLSEASHSKTKVKVVVEQNGSFQVKIPKNFVCEHCFGAFRSSYHLKRHI  
LIHTGEKPFECIDCMRFIQKYHLERHKRVHSGEKPYQCERCHQCFSTRDRLLRHKRMCQ  
GCQSKTSDGQFSL

>sp|Q9BV97|ZN747\_HUMAN KRAB domain-containing protein ZNF747 OS=Homo sapiens GN=ZNF747  
PE=1 SV=1

MTDPSLGLTVPMAPLAPLPPRDPNGAGSEWRKPGAVSFADVAVYFSREEWGCLRPAQRA  
LYRDMRETYGHLGALGESPTCLPGPCASTGPAAPLGAACGVGGPGAGQAASSQRGVCVL  
LPQSEAAARRSSPGWRRRPNCGIRLPRIRRWRSVRQKRTQQIPETRRKDKGKGREPWR  
SPTLWPPGLLG

>sp|Q32MQ0|ZN750\_HUMAN Zinc finger protein 750 OS=Homo sapiens GN=ZNF750 PE=1 SV=1

MSLLKERKPKKPHYIPRPPGKPFKYKCFQCPFTCNEKSHLFNHMKYGLCKNSITLVSEQD  
RVKCPKSNSLDPKQTNQPDATAPASSKSVANGLSAFDSKLQHSSAREDIKENLELQAR  
GTHRCLGQKPALHRASPCSPAPEAALGAQPALEGAARPSAFVVPVGEHRLKGPDAEAEPE  
TLALHNPTAKAVSFHTKSAFHTPGYPWKAGSPFLPPEFPHKISSTKGLGAISPYMHPTIP  
EYPPHFYTEHGLATIYSPYLLAGSSPECDAPLL SVYGTQDPRHFLPHPGPIPKHLAPSPA  
TYDHYRFFQYPSNLP I PYGFYRPESAFSSYGLRLPPVTGLTRDQSSHLLEEATLVYPAS  
SPSRLNPSPNKRHVEFESPIEAKDSSKAGQRDTEGSKMSPRAGSAATGSPGRPSPTDF  
MQTSQTCEGLYDLNKAASSALGRLYPPEQSLTAFRPVKKSTECLPAQAAETTAESPVSL  
NVVNGDPPAPTGSASLVSEAAPSSPDSSGMGPLNLSKKSEINLAATHEPTYQGSPQAET  
ASFSELQDLPLNLSVKDPCNTQAPRAPFGRPRAAEPAAAVPQKTGTGEGSEDGSPHPETK  
PGSLDGDGAPPTGPGEAPDACAVDSSEEKQTA AVALCQLAAYSPRNIRVGDGDAAAPE  
PACRQDPTLSSMESQEAQCDLRPKGQKRTSLRDAGKSQQA KAKLQDTARVFTLRRRA  
RVS

>sp|Q9H5H4|ZN768\_HUMAN Zinc finger protein 768 OS=Homo sapiens GN=ZNF768 PE=1 SV=2

MEREALPWGLEPQDVQSSDEMRSPEGYLRGNMSENEEEEISQQEGSGDYEV E EIPFGLEP  
QSPGFEPQSPFEPQSPRFEPESPGFESRSPGLVPPSPFAPRSPESDSQSPEFESQSPR  
YEPQSPGYEPRSPGYEPRSPGYESESRYESQNTLKTQSPEFEAQSSKFQEGAEMLLNP  
EEKSPLNISVGVHPLDSFTQGFGEQPTGDLPIGPPFEMPTGALLSTPQFEMLQNPLGLTG  
ALRGPGRRGGRARGGQGRPNICGICGKSFGRGSTLIHQRIHTGEKPYKCEVCSKAFSQ  
SSDLIKHQRTHTGERPYKPCRCGKAFADSSYLLRHQRTHSGQKPYKCPHCGKAFGDSSYL



LRHQRTSHERPYSCTECGKCYSQNSSLRSHQRVHTGQRPFGICGKSFSQRSALIPHA  
RSHAREKPFKCECGKRFGQSSVLAIHARTHLPGRYSCPDGKTFNRSSTLIQHQRSH  
GERPYRCAVCGKGFCRSSTLLQHHRVHSGERPYKCDDCGKAFSQSSDLIRHQRTAAGRR  
>sp|Q68DY9|ZN772\_HUMAN Zinc finger protein 772 OS=Homo sapiens GN=ZNF772 PE=1 SV=2  
MAAAEPMGPAQVPMNSEVIVDPIQGQVNFEDVFVYFSQEEWVLLDEAQRLLYRDVMLENF  
ALMASLGHTSFMSHIVASLVMGSEPWPDPWVDMTLAVATETPGGSDPGCWHGMEDEEIPF  
EQSFSIGMSQIRIPKGGPSTQKAYPCGTCGLVLKDILHLAEHQETHPGQKPYMCVLCGKQ  
FCFSANLHQHQKQHSGEKPFRRSDKSRPFLNNCAVQSMEMSFVTGEACKDFLASSSIFEH  
HAPHNEWKPHSNTKCEEASHCGKRHYKCSECGKTFSRKDSLVQHQRVHTGERPYECGECG  
KTFSRKPILAQHQRHHTGEMPYECGICGKVFHSSNLIVHQRVHTGARPYKCSECGKAYS  
HKSTLVQHESIHTGERPYECSECGKYFGHKYRLIKHWSVHTGARPYECIACGKFFSQSSD  
LIAHQRVHNGEKPYVCECGKAFSHKHLVQHHRHHTGERPYKCSECGKAFRQRASLIRH  
WKIHTGERP

>sp|Q9ULD5|ZN777\_HUMAN Zinc finger protein 777 OS=Homo sapiens GN=ZNF777 PE=1 SV=2  
MENQRSSPLSFSPVQEETLRQAPAGLPRETLPQSRVLPPEIPSLPTIPRQGSPLQTS  
SAPKQETSGRMPHVLQKGPSLLCSAASEQETSLQGPLASQEGTQYPPAAAAEQEVSLLSH  
SPHHQEAPVHSPEAPEKDPLTSLPTVPETDMDPLLQSPVSQKDTPFQISSAVQKEQPLPT  
AEITRLAVWAAVQAVERKLEAQAMRLLTLEGRTGTNEKKIADCEKTAVEFANHLESKWV  
LGTLLQEYGLLQRRLENMENLLKNRNFILRLPPGSNGEVPKVPVTFDDVAVHFSEQEWG  
NLSEWQKELYKNVMRGNYESLVSMDYAISKPDLMQMERGERPTMQEQEDSEGETPTDP  
SAAHDGIVIKIEVQTNDEGSELETPEPLMGQVEEHGFQDSELGDPCGEQPDLDMQEPEN  
TLEESTEGSSEFSELKQMLVQQRNCTEGIVIKTEEQDEEEEEEEDELPQHLQSLGQLSG  
RYEASMYQTPLPGEMSPGEESSPPLQLGNPAVKRLAPSVHGERHLENRGASSQQQRNR  
RGERPFTCMECGKSFRLKINLIHQRNHIKEGPYECACEEISFRHKQQLTLHQRIHRVRG  
GCVSPERGPTFNPKHALKPRKPSGSGGGGPKPYKCPECDSSFSHKSSLTKHQITHTG  
ERPYTCECKKSFRLHISLVHQRVHAGKHEVSFICSLCGKSFSRPSHLLRHQRTHTGER  
PFKCECEKSFSEKSKLTNHCVRHSRERPPPRWSSSFCSL

>sp|Q6ZMS7|ZN783\_HUMAN Protein ZNF783 OS=Homo sapiens GN=ZNF783 PE=1 SV=1  
MAEAPARDPETDKHTEDQSPSTPLQPAAEKNSYLYSTEITLWTVVAAIQALEKKVDSC  
LTRLLTLEGRTGTAEKKLADCEKTAVEFGNQLEGKWAVLGTLLQEYGLLQRRLENVENLL  
RNRNFILRLPPGSKGEAPKVPVTFDDVAVYFSELEWGKLEDWQKELYKHVMRGNYETLV  
SLDYAISKPDILTIERGEEPCLDRWGQEKNEVEVGRPRMMGTGLPPYPEHLTSPLSPA  
QEELKEGQAPKQQDSEARVAPAGPEAGLALRTDLQGEAQI

>sp|Q3KQV3|ZN792\_HUMAN Zinc finger protein 792 OS=Homo sapiens GN=ZNF792 PE=1 SV=2  
MAAAALRDPAQGCVTDFEDVTIYFSQEEWVLLDEAQRLLYCDVMLENFALIASLGLISFRS  
HIVSQLEMGEKWPVPSVDMTSAMARGAYGRPGSDFCHGTEGKDLPEHNVSVGEVAQDR  
SPEATLCPQKTCPCDICGLRLKDILHLAEHQTTHPRQKPFVCEAYVKGSEFSANLPRKQV  
QQNVHNPIRTEEGQASPVKTCRDHTSDQLSTCREGGKDFVATAGFLQCEVTPSDGEPHEA  
TEGVVDFHIALRHNCCESGDAFNKSTLVQHQRHRSRERPYECSKCGIFFTYAADLTQH  
QKVHNRGKPYECECGKFFSQHSSLVKHRRVHTGESPHVCGDCGKFFSRSSNLIQHKRVH  
TGEKPYECSDCGKFFSQRSNLIIHHRVHTGRSAHECSECGKSFNCNSSLIKHWRVHTGER  
PYKCNCEGKFFSHIASLIHQHIVHTGERPHGCGECGKAFFSRSSDLMKHQRVHTGERPYEC  
NECGKLFSQSSSLNSHRLHTGERPYQCSECGKFFNQSSSLNNHRLHTGERPYECSECG  
KTFRQRSNLRQHLKVHKPDRPYECSECGKAFNRPTLIRHQKIHIRERSMENVLLPCSQH

TPEISSENRPYQGAVNYKLKLHPSTHPGEVP

>sp|Q96GE5|ZN799\_HUMAN Zinc finger protein 799 OS=Homo sapiens GN=ZNF799 PE=2 SV=4

MASVALEDVAVNFTREEWALLGPCQKNLYKDVMQETIRNLDCVGMKWKDQNIEDQYRYPR  
KNLRCRMLERFVESKDGTCGETSSQIQDSIVTKNTLPGVGPYESRMSGEVIMGHSSLNC  
YIRVGAGHKPYEYHECGEKPDTHKQRGKAFSYHNSLQTHERLHTGKKPYNCKEKGKSFSS  
LGNLQRHMAVQRGDGPYKCKLCGAFFWPSLLHMHERTHTGEKPYECKQCSKAFSFYSSY  
LRHERHTHTGEKLYECKQCSKAFFDYSSCLRHERHTHTGKKPYTCKQCGKAFASTSLRRHE  
TTHTDEKPYACQCGKAFHHLGSFQRHMMHTRDGPBKCKICGKGFDPCSSLKSHERTHT  
GEKLYECKQCGKALSHSSSFRRHMTHTGDGPHKCKICGKAFVYPSVFQRHEKHTHTAEKP  
YKCKQCGKAYRISSSLRRHETHTHTGEKPYKCKCGKAFIDFYSFQNHKTTHAGEKPYECKE  
CGKAFSCFYQLSHRRHTHTGEKPYECNTCKAFSHFGNLKVHERIHSGEKPYECKEKGKA  
FSWLTCLFLRHERIHMREKPYECQCGKAFTHSRFLQGHEKHTHTGENPYECKEKGKAFASL  
SSLHRHKKTHHWKHTHTGENPYGCKEKGKAFASLSSLHRHKKTH

>sp|A6NDX5|ZN840\_HUMAN Putative zinc finger protein 840 OS=Homo sapiens GN=ZNF840P PE=5  
SV=5

MSLMGHGKVEMLLYAVPLLKAPNCLSSSMQLPHGGGRHQELVRFRDVAVVFSPEEWDHLT  
PEQRNLYKDVMLDNCKYLASLGNWYKAHVMSCLKQKKEPMMEREVTGDPCPACQPALA  
TFRALNESGNAFRQSFHHGEYRTHRTFVQHYECDDCGMAFGHVSQLTGHQKIHKVGETHE  
YGENTRGFRHRSSFTMLQRICTLYKHFEKNQCGETFNRP SKVIQHQSMSGLKPYKCDVC  
QKAFRFLSSLSIHQRHFVGNRVNLTRHQKHTHTQRKPFSCNFCGKTFHRFSEKTQHLLIHT  
RKKYYTCNYCKKEFPNPSKFIHQRTHTGEKPHKCDVCEKSFKSI SNLNKHQKHTHTGEKP  
FSCNECKKTFARQTDLARHQQIHTGKKSFCSSCKKTFVRLSDLTQHKGTHTGERPYQCT  
TCEKAFKYRSNFTKHQKTHSIGRPFACNECGKTYRLNWELNQHKKIHTGEKPYECGECGK  
RFNNNSNLNKHKKIHTGEKHFVCNQCGKAFSLNSKLSRHQRTHNKENS SKSVSNLNKHQ  
KTHAGEKPFPCNECKKAFAQRMDLARHQQIHTGRKPFICSSCKKTFVRLSDLTQHKGTHT  
GERPYQCTTCEKAFKYQSNFTKHQKTHSIGRPFTCNECGKTFRLNWKLNQHKKIHTGEKP  
YECGECGKCFNNNSNL SKHKKIHTGEKHFVCNQCGKAFSLNSKLSRHQITHNKKKP

>sp|POCG23|ZN853\_HUMAN Zinc finger protein 853 OS=Homo sapiens GN=ZNF853 PE=2 SV=1

MLHQPTPGNRGLTARMEVGPATETFVLELQCLEDDGGPGPDLSGGSGGSESQEEEEPQER  
NSSPQRPAVSAPVGASEIAEETRPGQRELQLQLEQQPEPQQQPQHEQLQQPQPHLELQQ  
QPQQDGGQQLSQLQKEKHQSVHHQELKPELQLMHQQQLQPQQVQEQQRLQQQQEQLQTQ  
QAQEQQLVQQQEQLQQQVQEQLLQQQQEQLQQQQLLQQQEQLQQQFQQQQEQLQQQQ  
LLLLQQQGQLQQQLLQQQQAQLQQQLLEQQQAQLQQQLLQQQEQLQQQQQQQLQQQQE  
QLQQQQQLQPPPLEPEEEEEVELELMPVDLGSEQELEQQRQELERQQELERQQEQRLQLK  
LQEELQQLEQQLEQQQQLEQQEVQLELTPVELGAQQQEVQLELTPVQPELQLELPAAG  
GGGAAPGAPAAVVAPPYGVVQELMVLPAVAAPAVVAIPGPAGSAALTPARQRRRRRA  
RDRPTICGECGKGFSTRDVLVRHQATHTGERPHRCGECGKGFSSQHSNLVTHQRIHTGEKP  
YACSYCAKRFSESSALVQHQRHTHTGERPYACGDCGKRFSVSSNLLRHRRTHTSGERP YVCE  
DCGERFRHKVQIRRHERRQLHGAGRSRGLGLLRASRPAALGGPARAEQAATATAPADKAL

>sp|O60384|ZN861\_HUMAN Putative zinc finger protein 861 OS=Homo sapiens GN=ZNF861P PE=5  
SV=1

MWLSTSPYRKGSQCGEAFSQIPGHNLNKKTPPGVKPPESHVCGEVGVGPSTERHIRDRL  
GRKPCEYQECRQKAYTCKPCGNAFRFHHSFHIHERPHSGENLYEC

>sp|Q6PDB4|ZN880\_HUMAN Zinc finger protein 880 OS=Homo sapiens GN=ZNF880 PE=2 SV=2

MLRRGHLAFRDVAIEFPQEEWKCLDPAQRTL YREVMVENYRNLVFLGICLPDLSVISMLE  
QRRDPRNLQSEVKIANNPGGRECIKGVNAESS SKLGSNAGNKS LKNQLGLTFQLHLS ELQ  
LFQAERNISGCKHVEKPINNSLV SPLQKIYSSVKSHILNKYRND FDDSPFLPQEQKAQIR  
EKPCCECNEHGKA FRVSSRLANNQVIHTADNPYK CNECDKVF SNSSNLVQH QRIHTGEKPY  
KCHECGKLFNRISLLARHQRIHTGEKPYKCHECGKVFTQNSHLANHHRIHTGEKPYKCNE  
CGKVFNRNAHLARHQKIHSGEKPYKCECGKAFSGGSGLTAHLVIHTGEKLYCKNCGKV  
FNRNAHLTRHQRIHTGEKPYECKEKGKVF RHKFCLTNHHRMHTGEQPYKNECGKA FRDC  
SGLTAHL LIHTGEKPYKCEKAKVFRHRLSLSNHQR FHTGEKPYRCDECGKDFTRNSNLA  
NHHRIHTGEKPYKCECHKVFSHNSHLARHRQIHTGEKSYKNECGKVF SHKLYLKKHER  
IHTGEKPYRCHECGKDFTRNSNLNHHRIHTGEKPYR

>sp|P17020|ZNF16\_HUMAN Zinc finger protein 16 OS=Homo sapiens GN=ZNF16 PE=1 SV=3

MPSLRTRREEAEMELSVPGSPWTPAAQARVRDAPAVTHPGSAACGTPCCSDTELEAICP  
HYQQPDCDTRTEDKEFLHKEDIHEDLESQAEISENYAGDVSQVPELGDLCDDV SERDWGV  
PEGRRLPQSLSQEGDFTPAAMGLLRGPLGEKDLDCNGFDSRFSLSPNLMACQEIPTEERP  
HPYDMGGQSFQHSVDLTGHEGVPTAESPLICNECGKTFQGNPDLIQRQIVHTGEASFMCD  
DCGKTFSQNSVLKNRHRSHMSEKAYQCSECGKA FRGHSDFSRHQSHHSERP YMCNECGK  
AFSQNSSLKKHQKSHMSEKPYECNECGKA FRSSNLIQH QRIHSGEKPYVCSECGKA FR  
SSNLIKHHRTHTGEKPFECGEGKAFSQAHLRKHQRVHTGEKPYECNDCGKPF SRVSNL  
IKHHRVHTGEKPYKSCDCGKA FSQSSSLIQHRR IHTGEKPHVCNVCGKA FSYSVLRKHQ  
I IHTGEKPYRC SVCGKA FSHSSALIQH QGVHTGDKPYACHECGKTFGRSSNLILHQRVHT  
GEKPYECTECGKTFSQSSTLIQH QRIHNGLKPHECNQCGKA FNRSSNL IHHQKVHTGEK  
YTCVECGKGFSQSSHLIQHQI IHTGERPYKCECGKA FSQRSVLIQH QRIHTGVKPYDCA  
ACGKA FSQRSKLIKHQ LIHTRE

>sp|P17028|ZNF24\_HUMAN Zinc finger protein 24 OS=Homo sapiens GN=ZNF24 PE=1 SV=4

MSAQSV EEDSILIIPTDEEEKILRVKLEEDPDGEEGSSIPWNHLPDPEIFRQRFRQFGY  
QDSPGP REAVSQLREL CRLWLRPETHTKEQILELVLEQFVAILPKELQTWVRDHHPENG  
EEAVTVLE DLESELDDPGQPVSLRRRKREVLVEDMVSQEEAQGLPSSELD AVENQLK WAS  
WELHSLRH CDDDGRTENGALAPKQELPSALESHEVPGTLNMGVPQIFKYGETCFPKGRFE  
RKRNP SRKKQHICDECGKHFSQGSALILHQRIHSGEKPYGVECGKA FSRSSILVQHQRV  
HTGEKPYKCLECGKA FSQNSGLINH QRIHTGEKPYECVQCGKSYSQSSNLFRHQRRHNAE  
KLLNVVKV

>sp|P17030|ZNF25\_HUMAN Zinc finger protein 25 OS=Homo sapiens GN=ZNF25 PE=2 SV=2

MNKFQGPVTLKDVIVEFTKEEWKLLTPAQRTLYKDVMLENYSHLVSGYHV NKNPAVFKL  
KQGKEPWILEVEFP HRGFPEDLWSIH DLEARYQESQAGNSRNGELTKHQKTH TTEKACEC  
KECGKFFCQSALIVHQHTSKGKSYDCDKCGKSFSKNEDLIRHQKIHTRDKT YECKECK  
KIFYHLSSLSRHLRTHAGEKPYECNQCEKSFYQKPHLTEHQKTH TGEKPFECTECGKFFY  
VKAYLMVHQKTH TGEKPYECKEKGKA FSQKSHLTVHQRMTGEKPYKCECGKFFSRNSH  
LKTHQRSHTGEKPYECKEKR CFYQKSALT VHQRTH TGEKPFECNKCGKTFYKSDLT KH  
QRKHTGEKPYECTECGKSFAVNSVLR LHQRTH TGEKPYACECKGKSFSQKSHFI IHQRKH  
TGEKPYECQECGETFIQKSQLTAHQKTH TTKRNAEK

>sp|P13682|ZNF35\_HUMAN Zinc finger protein 35 OS=Homo sapiens GN=ZNF35 PE=2 SV=4

MTAELREAMALAPWGPVKVKKEEEEEENFPGQASSQVHSENIKVWAPVQGLQTGLDGSE  
EEEKGQNI SWDMAVVLKATQEAPAASTLGSYSLPGTLAKSEILETHGTMN FLGAETKNLQ  
LLVPKTEICEEA EKPLIISERI QKADPQGPELGEACEKGNMLKRQRIKREKKDFRQVIVN

DCHLPESFKEEENQCKKSGGKYSLSNGAVKNPKTQLGQKPFTCSVCGKGSQSANLVVH  
QRIHTGEKPFECHECGKAFIQSANLVVHQRIHTGQKPYVCSKCGKFTQSSNLTVHQKI  
SLEKTFKCNECEKAFSYSSQLARHQKVHITEKCYECNECGKFTTRSSNLIVHQRIHTGEK  
PFACNDCGKFTQSANLIVHQRSHTGEKPYECKECGKAFSCFSLIVHQRIHTAEKPYDC  
SECGKAFSQLSCLIVHQRIHSGDLPYVCNECGKFTCSSYLLIHQRIHNGEKPYTCNECG  
KAFRQRSSSLTVHQRTHTGEKPYECEKCGAAAFISNSHLMRHHRTHLVE

>sp|P17038|ZNF43\_HUMAN Zinc finger protein 43 OS=Homo sapiens GN=ZNF43 PE=2 SV=4

MGPLTFMDVAIEFCLEEWQCLDIAQQNLYRNVMLENYRNLVFLGIAVSKPDLITCLEQEK  
EPWEPMRHEMVAKPPVMCSHFTQDFWPEQHIKDPFQKATLRRYKNCHEKNVHLKDKHKS  
VDECKVHRGGYNGFNQCLPATQSKIPLFDKCVKAFHKFSNSNRHKISHTKKLFCCKECG  
KSFCMLPHLAQHKKIHTRVNFCCEKCGKAFNCPSSIITKHKRINTGEKPYTCEECGKVFN  
WSSRLTTHKKNYTRYKLYKCEECGKAFNKSSILTTHKII RTGEKFKYCKECAKAFNQSSN  
LTEHKKIHPGEKPYKCEECGKAFNWPSTLTTHKRIHTGEKPYTCEECGKAFNQFSNLTH  
KRIHTAEKFKYTECEGAFSRSSNLTKHKKIHTTEKKPYKCEECGKAFKWSSKLTEHKLTH  
TGEKPYKCEECGKAFNWPSTLTTHNRIHTGEKPYKCEVCGKAFNQFSNLTHKRIHTAEK  
PYKCEECGKAFSRSSNLTKHKKIHIEKKPYKCEECGKAFKWSSKLTEHKIHTTGEKPYK  
EECGKAFNHFSILTKHKRIHTGEKPYKCEECGKFTQSSNLTTHKKIHTGEKFKYKCEECG  
KFTQSSNLTTHKKIHTGGKPYKCEECGKAFNQFSTLTTHKIIHTEKPYKCEECGKAFK  
WSSTLTTHKIIHTGEKPYKCEECGKAFKLSSTLSTHKIHTGEKPYKCEKCGKAFNRSSN  
LIEHKKIHTGEQPYKCEECGKAFNYSSHLNTHKRIHTKEQPYKCKECCGKAFNQYSNLTH  
NKIHTGEKLYKPEDVTVILTTPQTFSNIK

>sp|Q9UC06|ZNF70\_HUMAN Zinc finger protein 70 OS=Homo sapiens GN=ZNF70 PE=2 SV=2

MEVPPATKFGETFAFENRLESQQGLFPGEDLGDPLQERGLEQMAVIYKEIPLGEQDEEN  
DDYEGNFSLCSSPVQHQSIIPGTRPQDDELFGQTFLQKSDLSMCQIIHSEEPSPCDAET  
DRGDSGPNAPHRTPQPAKPYACRECGKAFSQSSHLLRHLVIHTGEKPYECCECGKAFSQS  
SHLLRHQIIHTGEKPYECRECGKAFRQSSALTQHKKIHTGKRPYECRECGKDFSRSSSLR  
KHERIHTGERPYQCKECKGSFNQSSGLSQRKIHTLKKPHECDLCGKAFCHRSHLIRHQR  
IHTGKKPYKDECGKAFSQSSNLIHRKTHHTGEKPYKCKCGKAFSQSSSLIEHQRIHTG  
EKPYECCQCGKAFCHSSALIQHQRIHTGKKPYTCECGKAFRHSALIEHYKTHTREKPYV  
CNLCGKSFRGSSHLIRHQKIHSGEKL

>sp|043830|ZNF73\_HUMAN Zinc finger protein 73 OS=Homo sapiens GN=ZNF73 PE=3 SV=1

MFFIHKKVHIGQTFGKYNEYEKACNNLAIIVQGITQVRQPTCCRKSDFSKHQQTHTGEK  
HECVECEKPSISKSDLMIQHKMPTEEKPYACNCCEKLFYSKSSLTIHQRIHTGEKPYGCN  
ECGKTVRCKSFLTTLHQRTHTGDKPYKCECGKFTFTVNQLTLHHRTHSGEKPYQCSECGK  
TFSQKSYLTIHHRHTWQKPYACDHCEKAFSHKSKLTVHQRTHTGEKPYEYNECRKPFIN  
KSNLRIHQRTTHIREKPYECNECGKTFHQKSFLTIVHQRTHRRKKPYECNELGKTFHCKSFL  
TVHQKTHHTGEKPYACNCGKTYSHKS

>sp|P36508|ZNF76\_HUMAN Zinc finger protein 76 OS=Homo sapiens GN=ZNF76 PE=2 SV=2

MESLGLHTVTLSGTTAYVQAVKGEKLLEGQVIQLEDGTTAYIHQVTVQKEALSFEDGQ  
PVQLEDGSMAYIHRTPREGYDPSTLEAVQLEDGSTAYIHHPVAVPSESTILAVQTEVGLE  
DLAAEDDEGFSADAVVALEQYASKVLHDSQIPRNGKGQVGDRAFRGKYGCGRLYTTHA  
HLKVHERAHTGDRPYRCDFPSCGKAFATGYGLKSHVRTHHTGEKPYKPEELCSKAFKTS  
DLQKHVRTHHTGERPFQCPFEGGRSFTTSNIRKVHVRTHHTGERPYTCPEPHCGRGFTSAT  
NYKNHVRHTGEKPYVCTVPGCGKRFTEYSSLYKHHVVHTHCKPYTCSTCGKTYRQTSTL

AMHKRSAHGELEATEESEQUALYEQQQLEAASAAEESPPPKRPRIAYLSEVKEERDDIPAQ  
VAMVTEEDGAPQVALITQDGAQQVSLSPEDLQALGSAISMVTQHGSTLTIPSPDADLAT  
SGTHTVTMVSADGTQTQPVTTIITSGAVVAEDSSVASLRHQVALLATANGTHIAVQLEEQ  
QTLEEAINVATAAMQQGAVTLETTVSESGC

>sp|P51504|ZNF80\_HUMAN Zinc finger protein 80 OS=Homo sapiens GN=ZNF80 PE=2 SV=2  
MSPKRDGLGTGDGLHSQVLQEQVSTGDNLHECDSQGPKDTLVREGKTYKCECGSVFNK  
NSLLVRHQIHTGVKPYECQECGKAFPEKVDVFRPMRIHTGEKPKCECGKVFNRRLSHL  
LCYRQIHTGEKPYECSECGKTFSYHSVFIQHRVTHTGEKLFCKEKGKTFYNNSSLTRHM  
KIHTGEKPKCECGKTFYTSVFFRHSMTHTAGKPYECKEKGKGFYYSYSLTRHTRSHT  
GEKPYECLEHRKDFGYHSAFAQQSKIHS GGKNL

>sp|A8MX4|ZNF99\_HUMAN Zinc finger protein 99 OS=Homo sapiens GN=ZNF99 PE=2 SV=3  
MGSLTFWDVTIEFALEEWQCLDMAQQNLRYNVMLENYRNLVFLGIAVSKLDLITCLKQGK  
EPWNMKRHEMVTKPPVISHFTQDFWPDQSIKDSFQEIILRTYARCGHKNLRLRKDCESV  
NEGKMHEEAYNKNLQCWTTTQGKIFQCNKYVKVFHKYSNSNRYKIRHTKKTKFKCMKCSK  
SFFMLSHLIQHKRIHTRENIYKCEERGKAFKWFSTLIKHKIHTEDKPYKCKCGKAFNI  
SSMFTKCKIHTGKKPKCEECGKVFNNSSITLMKHKIHTGKKPYKCEECGKAFKQSSHL  
TRHKAHTGEKPYKCEECGKAFNHFSALRKHQIHTGKKPYKCEECGKAFSQSSITLRKHE  
IHTTEKPYKYEECGKAFSNLSALRKHEIHTGKPYKCEECGKAFKWSKLTVHKVIHT  
AEKPKCEECGKAFKRFSAALRKHKIHTGKPYKCEECGKAFSNFSALRKHEIHTGEKP  
YKCEECGKAFKWSKLTVHKVIHMEKPKCEECGKAFKHFSAALRKHKIHTGKKPYKCE  
ECGKAFNNSSITLMKHKIHTGKKPYKCEECGKAFKQSSHLTRHKAHTGEKPYKCEECGK  
AFNHFSALRKHQIHTGKKPYKCEECGKAFSQSSITLRKHEIHTGEKPYKCEECGKAFK  
SSHLTRHKVIHTTEKPYKCEECGKAFNHFSALRKHKIHTGKKPYKCEECGKAFSQSSITL  
RKHEIHTGEKPYKCEECGKAFKWSKLTVHKVIHTAEKPKCEECGKAFKHFSAALRKHK  
IHTGKKPYKCEECGKAFNNSSITLRKHEIHTGEKSYKCEECGKAFKWSKLTVHKVIHM  
ERNPANVKNVAKLLNISQPLENMR

>sp|Q8WZ26|YS006\_HUMAN Putative uncharacterized protein PP6455 OS=Homo sapiens GN=PP6455  
PE=2 SV=2  
MCEQLVCIFTYAYLKINLTALGHNNPSYPVARAQPTMFPSASECNAFPRVSKVPNRSG  
AAETALLVRVLPKPLKSQASLLSLPFIHITEQLSTHICVVLFKLFHVCLFTINNMNDCSM  
DAAERNAEGGLQLE

>sp|Q6ZVQ6|YS045\_HUMAN Putative uncharacterized protein FLJ42213 OS=Homo sapiens PE=2  
SV=1  
MHAGKRSPLTQSISCVCLPELGALWEIESARVNLRVSGREASREMESSPRPHRIAGVKRF  
LKHAGKWSLRWFLSPRWILQFRRWARKWSRFTRSSFQVRWAAVPAGKCSQHGLSAVATA  
SPGVFWEMEFDVSSPLTEGAGSPMSSKHAGE

>sp|Q6ZTC4|YT009\_HUMAN Putative uncharacterized protein FLJ44790 OS=Homo sapiens PE=2  
SV=1  
MQLGEHTHPQKNPKSLAGCLLPNPHPQLQLRGKRAAGLLLRNPWCHPQAPGGSSTWAPS  
LPPILAPQAYLNFAPPTLVPGSGPGTEAQPVAPANALGSRSKNLNTQPSCLSSGSHLPLP  
FPAGMCPHPANPTWALRKAIEVPQGPPLSHTRKALCLAASGVGALLLEVPRHPGWGQQA  
AGFQQVFQEGAGTHFPSVRVQPGRGKLQGQR

>sp|P59817|Z280A\_HUMAN Zinc finger protein 280A OS=Homo sapiens GN=ZNF280A PE=2 SV=3  
MGDIFLCKKVESPKKNLRESKQREEDDEPDLIYVGVEHVHRDAEVLVGMISNSKPVVS

NILNRVTPGSKSRRKKGHFRQYPAHVSQPANHVTSMAKAIMPVSLSEGRSTDSPVTMKSS  
SEPGYKMSSPQVVPNYSDSLPPGTQCLVGAMVSGGRNESSPDSKRLSTSDINSRDSKR  
VKLRDGI PGVPSLAVVPSDMSSTISTNTPSQGICNSSNHVQNGVTFPWPDANGKAHFNLT  
DPERANESGLAMTDISSLASQNKTFDPKKENPIVLLSNFYYGQHKGDGQPEQKTHTTFKC  
LSCVKVLKNIKFMNMKHHLEFEKQRNDSWEDHTTCQHCHRQFPTPFQLQCHIDSVHIAM  
GPSAVCKICELSFETDQVLLQHMKDHHKPGEMPYVCQVCHYRSSVFADVETHFRTCHENT  
KNLLCLFCLKLFTAIPYMNHCWRHSRRRLQCSKCRLQFLTLKEEIEHKTKDHQTFKKP  
EQLQGFPRETKVIIQTSVQPGSSGMASVIVSNTDPQSSPVTKKKKTAMNTRDSRLPCSKD  
SS

>sp|Q9HBT8|Z286A\_HUMAN Zinc finger protein 286A OS=Homo sapiens GN=ZNF286A PE=1 SV=1

METDLAEMPEKGALSSQDSPHFQEKSTEEGEVAALRLTARSQETVTFKDVAMDFTPEEWG  
KLDPAQRDVMLENYRNVLVSLWLPVSKPESYNLENGKEPLKLERKAPKSSYSDMETRPQSK  
DSTSVQDQFSKAESCKVAIIDRLTRNSVYDSNLEAALECNWLENQQGNQERHLREMFTHM  
NSLSEETDHHKHDVYKSFNQSVLITEDRVPKGSYAFHTLEKSLKQKSNLMKKQRTYKEK  
KPHKCNDGCELFYHSVLI RHQRVHTGEKPYTCNECGKSFSHRANLTKHQRTHTRILFEC  
SECKKTFTESSSLATHQRIHVGERPYECNECGKGFNRSTHLVQHQLIHTGVKPYECNECD  
KAFIHSSALIKHQRTHTEKPYKCQCEGKAFSHCSSLTKHQRVHTGEKPYECSECGKTFS  
QSTHLVQHQRHTGEKPYECNECGKTFSRSSNFAKHQRIHIGKKPYKCSECGKAFIHSSA  
LIQHQRTHTEKPFRCNECGKSFKCSSLIRHQRVHTEEQP

>sp|Q86SH2|ZAR1\_HUMAN Zygote arrest protein 1 OS=Homo sapiens GN=ZAR1 PE=2 SV=1

MAALGDEVLDGYVPACPPCSYRYPYPAATKKGGAAGGSWQQRGRGCLPASSPCSAGAAS  
LSFPGCGRLTAAEYFDSYQRERLMALLAQVGPGLGPRARRAGSCDVAVQVSPRIDAAVQC  
SLGRRTLQRRARDPESPAGPGAEGTTGGGSFSQQPSRRGLEQGSPPQNGAPRPMRFPRTVA  
VYSPLALRRLTAFLEGPAAAGEQRSGASDGERGPPPARLQGPEEGEVWTKKAPRRPQSD  
DDGEAAAVRASWEQPADGPELPPREAQEGEAAPRSALRSPGQPPSAGRARDGGDGREAA  
VAGEGPSRSPPELGERLRFQFLEQKYGYHCKDCNIRWESAYVWCVQGTNKVYFKQFCR  
TCQKSYNPHYRVEDITCQCKQTRCSCPVKLRHVDPKRPHRQDL CGRCKGKRLSCDSTFSF  
KYII

>sp|A8MT70|ZBBX\_HUMAN Zinc finger B-box domain-containing protein 1 OS=Homo sapiens  
GN=ZBBX PE=2 SV=3

MNRKDFVVLPGWKPNSVKLKYRNAQELRMEKVQLEFENQEMEKKLQEFRSTRNKEKEDR  
ESSEYYWKSQKVGKLVNQSYMMSQNKGNVVKFSAGKVKLKLLKEQIQEPVKPTVNYKMAN  
SSECEKPKINGKVCQCENKAALLVCLECGEDYCSGCFKGVHKGALKLHRTTLLQAKSQ  
ILFNVLDVAHQFIKDVPNDEPKEENNSTKETSQIHKPKSVLLQRSSSEVEITTMKRAQR  
TKPRKSLLCESGFDEEASAQSFQEVLSQWRTGNHDDNKKQNLHAAVKDSLEECEVQTNLK  
IWREPLNIELKEDILSYMEKLWLKKHRRTPQEQLFKMLPDTFPHPHETTGAQCSQNEND  
EDSDGEETKVQHTALLLPVETLNIERPEPSLKIVELDDTYEEEFEEAENIVPYKVKLADA  
DSQRSCAFHDCQKNSFPYENG IHQHHVFDKGRDFNLCLRNSSTYYKDNSKAETSNTDF  
DNIVDPDVYSSDIEKIEESTSFERNLKEKNIGLESNQSDSCVSLSKDTLLGRDLEKA  
PIEEKLSQDIKESLELSNLYKRPSFEESKTTKSSLLLQEIACRSKPITKQYQGLERFFIF  
DTNERLNLPSHRLCENNSSTRITLAGQKSQRPSTANFPLSNSVKESSSCLSSSHPRSRS  
AAAQSSSRAASEISEIEYIDITDQNELSLDDTTDQHTLDNLEKELQVLRSLADTSEKLYS  
LTSEEFDPDFSSQSLNISQISTDFLKTSHVRGPGVEELSCSGRDTKIQSLLSLESSTDE  
EEEDFLNKQHVITLPWSKT

>sp|Q96IU2|ZBED3\_HUMAN Zinc finger BED domain-containing protein 3 OS=Homo sapiens  
GN=ZBED3 PE=1 SV=1

MRSGEPACTMDQARGLDAAARGGQCPLGPAPTPTPPGRLGAPYSEAWGYFHLAPGRPG  
HPSGHWATCRLCGEQVGRGPGFHAGTSALWRHLRSAHRRELESSGAGSSPPAAPCPPPPG  
PAAAPEGDWARLLEQMGALAVRGSRRERELERRELAVEQGERALERRRRALQEEERAAAQ  
ARRELQAEREALQARLRDVSRRREGALGWAPAAPPPLKDDPEGDRDGCVITKVLL

>sp|Q8IZ13|ZBED8\_HUMAN Protein ZBED8 OS=Homo sapiens GN=ZBED8 PE=1 SV=1

MSKKRKWDDDYVRYWFTCTTEVDGTQRPQCVCNSVFSNADLRPSKLSDFNRQHGGVAG  
HDLNSLKHPAPSDQSETLKAFGVASHEDTLLQASYQFAYLCAKEKNPHTVAEKLKPCA  
LEIAQIVLGPDAQKKLQQVPLSDDVIHSRIDEMSQDILQQVLEDIKASPLKVGIIQLAETT  
DMDDCSQLMAFVRYIKEREIVVEFLFCEPLQLSMKGIDVFNLFRRDFLKHKIALDVCESV  
CTDGASSMLGENSEFVAYVKEIPHIIVVTHCLLNPHALVIKTLPTKLRDALFTVVRVINF  
IKGRAPNHRLFQAFEEIGIEYSVLLFHTEMRWLSRGQILTHIFEMYEEINQFLHHKSSN  
LVDGFENKEFKIHLAYLADLFKHLNELSASMQRGTGMNTVSAREKLSAFVRKFPFWQKRIE  
KRNFTNFPFLEEIIIVSDNEGIFIAAEITLHLQQLSNFFHGYFSIGDLNEASKWILDPFLF  
NIDFVDDSYLMKNDLAE LRASGQILMEFETMKLEDFWCAQFTAFPNLAKTALEILMPFAT  
TYLCELGFSSLLHFKTKSRSCFNLSDDIRVAISKVKPRFSDIIEQKLQLQQKSL

>sp|Q05516|ZBT16\_HUMAN Zinc finger and BTB domain-containing protein 16 OS=Homo sapiens  
GN=ZBTB16 PE=1 SV=2

MDLTKMGMIQLQNPSHTGLLCKANQMRLAGTLCDDVIMVDSQEFHAHRTVLACTSKMFE  
ILFHRNSQHYTLDFLSPKTFQQILEYAYTATLQAKAEDLDDLLYAAEILEIEYLEEQCLK  
MLETIQASDDNDTEATMADGGAEEEEEDRKARYLKNIFISKHSSEESGYASVAGQSLPGPM  
VDQSPSVSTSFGLSAMSPTKAAVDSLMTIGQSLLQGTLPAGPEEPTLAGGRHPGVAE  
VKTEMMQVDEVPSQDSPGAAESSISGGMGDKVEERGKEGPGTPTRSSVITSARELHYGRE  
ESAEQVPPPAEAGQAPTGRPEHPAPPPEKHLGIYSVLPNHKADAVLSMPSSVTSGLVHQP  
ALAVSMDFSTYGGLLPQGFIQRELFSKLGE LAVGMKSESRTIGE QCSVCGVELPDNEAVE  
QHRKLHSGMKTYGCELCGRFLDSLRLRMHLLAHSAGAKAFVCDQCGAQFSKEDALETHR  
QTHTGTMAVFCLLCGRFQAQALQQHMEVHAGVRSYICSECNRTFPSHTALKRHLRSH  
TGDHPYECEFCGSCFRDESTLKS HKRIHTGEKPYECNGCGKKFSLKHQLETHYRVHTGEK  
PFECKLCHQRSRDYSAMIKHLRTHNGASPYQCTICTEYCPSSLSSMQHKMGHKPEEIPPD  
WRIEKTYLYLCYV

>sp|Q9HC78|ZBT20\_HUMAN Zinc finger and BTB domain-containing protein 20 OS=Homo sapiens  
GN=ZBTB20 PE=1 SV=3

MLERKKPKTAENQKASEENEITQPGSSAKPGLPCLNFEAVLSPDPALIHSTHSLTNSHA  
HTGSSDCDISCKGMTERIHSINLHNFSNSVLETLNEQRNRGHFCDVTVRIHGSMLRAHRC  
VLAAGSPFFQDKLLLGYSIDIEIPSVSVQSVQKLIDFMYSGVLRVSQSEALQILTAASIL  
QIKTVIDECTRIVSQNVGDVFPGIQDSGQDTPRGTPESGTSGQSSDTESGYLQSHPQHSV  
DRIYSALYACSMQNGSGERSFYSGAVVSHHETALGLPRDHHMEDPSWITRIHERSQQMER  
YLSTTPETTHCRKQPRPVRIQTLVGNIIHIKQEMEDDYDYQGQQRVQILERNESEECTEDT  
DQAEGTESEPKGESFDSGVSSSIGTEPDSVEQQFGPGAARDSQAEPQPEQAAEAPAEAGG  
PQTNQLETGASSPERSNEVEMDSTVITVSNSSDKSVLQQPSVNTSIGQPLPSTQLYLRQT  
ETLTSNLRMPLTLTSNTQVIGTAGNTYLPALFTTQPAGSGPKPFLFSLPQLAGQQTQFV  
TVSQPGLSTFTAQLPAPQLASSAGHSTASGQGEKKPYECTLCKNTFTAKQNYVKHMFVH  
TGEKPHQCSICWRSFSLKDYL IKHMTHTGVRAYQCSICNKRFTQKSSLNVHMRLHRGEK

SYECYICKKKFSHKTLLERHVALHSASNGTPPAGTPPGARAGPPGVVACTEGTTYVCSVC  
PAKFDQIEQFNDHMRMHVSDG

>sp|043167|ZBT24\_HUMAN Zinc finger and BTB domain-containing protein 24 OS=Homo sapiens  
GN=ZBTB24 PE=1 SV=2

MAETSPEPSGQLVVHSDAHSDTVLAASFEDQRKKGFLCDITLIVENVHFRAHKALLAASSE  
YFSMMFAEEGEIGQSIYMLEGMVADTFGILLEFIYTGYLHASEKSTEQILATAQFLKVYD  
LVKAYTDFQNNHSSPKPTTLNTAGAPVVVISNKKNDPPKRKRGRPKKVNTLQEEKSELAA  
EEEIQLRVNNSVQNRQNFVVGDSGLNEQIAAKEKEESEPTCEPSREEEMPVEKDENDYD  
PKTEDGQASQSRYSKRRIWRSVKLKDYKLVGDQEDHGSARKICGRRKRPGGPEARCKDCG  
KVKFYNHFLAIHQRSHTGERPFCNECGKGAQKHSQVHTRMHTGERPYTCTVCSKALT  
TKHSLLEHMSLHSGQKSFTCDQCGKYFSQNRQLKSHYRVHTGHSLPECKDCHRFMDVSQ  
LKKHLRTHTGKPFPTCEICGSFTAKSSLQTHIRIHRGEKPYSCGICGSFSDSSAKRRH  
CILHTGKKPFSCPECNLQFARLDNLKAHLKIHKSKEKHASDASSISGSSNTEEVNQLQLQ  
PYQLSTSGEQEIQLLVTVSVHNINFMGPSQGSIIVTAESSQNMADQAANLTLTQQPE  
QLQNLILSAQQEQTEHIQSLNMIESQMGPSQTEPVHVITLSKETLEHLHAHQEQTEELHL  
ATSTSDPAQHLQLTQEPGPPPTHHVPQPTPLGQEQS

>sp|P24278|ZBT25\_HUMAN Zinc finger and BTB domain-containing protein 25 OS=Homo sapiens  
GN=ZBTB25 PE=1 SV=2

MDTASHSLVLLQQNLNMQREFGLCDCTVAIGDVYFKAHRAVLAAFSNYFKMIFIHQTSEC  
IKIQPTDIQPDIFSYLLHIMYTGKPKQIVDHSRLEEGIRFLHADYLSHIATEMNQVFSP  
ETVQSSNLYGIQISTTQKTIVKQGLEVKEAPSSNSGNRAAVQGDHPQLQLSLAIGLDDGT  
ADQQRACPATQALEEHQKPPVSIKQERCDPESVISQSHSPSPSEVTGPTFTENSVKIHL  
HYCGERFDSRSNLRQHLHTHVSGSLPFGVPASILESNLDGEVHPLNENSEALECRRLSSF  
IVKENEQQPDHTNRGTTEPLQISQVSLISKDTEPVELNCNFSFSRKRKMSCTICGHKFPR  
KSQLEHMYTHKGKSYRYNRCRQFGNALAQRFPYCDSDVSLKSSRLSQEHLDLPCAL  
ESELQENVDTILVE

>sp|Q5TC79|ZBT37\_HUMAN Zinc finger and BTB domain-containing protein 37 OS=Homo sapiens  
GN=ZBTB37 PE=2 SV=1

MEKGGNIQLEIPDFSNSVLSHLNQLRMQGRLCDIVNVQGQAFRAHKVLAASSPYFRDH  
MSLNEMSTVSIKVNPTVFEQLLSFCYTGRICLQLADIISYLTAAFLQMCHIIDKCTQ  
ILEGIIHFKINVAEVEAELSQTRTKHQERPPESHVTPNLNRSLSPRHNTPKGNRRGQVSA  
VLDIRLSPPEESTSPQIIEPSSDVESREPILRINRAGQWYVETGVADRGRSDDEVRL  
GAVHIKTENLEEWLGPENQPSGEDGSSAEVETAMVIDTTGHGSGVQENYTLGSSGAKVAR  
PTSSEVDRFSPSGSVPLTERHRARESPPGRMDEPKQPSQVEESAMMGVSGYVEYLREQ  
EVSERWFRYNRLTCIYKASFNQKGSGLDRHMLHMGITPFVCRMCGKKYTRKDQLEYHI  
RKHTGNKPFHCHVCGKSFPFQAILNQHFKNHPCIPLEGPHSISPETTTSRGQAEEES  
PSQEETVAPGEAVQGSVSTTGP

>sp|Q9NUA8|ZBT40\_HUMAN Zinc finger and BTB domain-containing protein 40 OS=Homo sapiens  
GN=ZBTB40 PE=1 SV=4

MELPNYSRQLLQQLYTLCKEQQFCDCTISIGTIYFRAHKLVLAAASLLFKTLNDNTDITIS  
IDASVVSPEEFALLEMMYTGKLPVGKHNFSKIIISLADSLQMFDAVSCKNLLTSLVNCS  
VQGQVVRDVSAPSSETFRKEPEKPQVEILSSEGAGEPHSSPELAATPGGPVKAETEEAAH  
SVSQEMSVNSPTAQESQRNAETPAETPTTAEACSPSPAVQTFSEAKKSTEPGCERKHYQ  
LNFLLENEGVSFSDALMVTQDVLKKLEMCSEIKGPQKEMIVKCFEGEGGHSFAQRILGKVR



EESLDVQTVVSLRLRYQYSNPAVKTALLDRKPEDVDTVQPKGSTEKGKTLVLLLEHKED  
LIQCVTLQRPIMESLETAKEEFLTGTEKRVILNCCGRTPKETIENLLHRMTEEKTLTAE  
GLVKLLQAVKTTFPNLGLLLEKLQKSATLPSTTVQSPDDYGTLLRRYHENLSEIFTDN  
QILLKMI SHMTSLAPGEREVMKLVKRDSGSGGFNSLISAVLEKQTL SATAIWQLLLVVQ  
ETKTCPLDLLMEEIRREPGADAFFRAVTTPEHATLETILRHNQLILEAIQQKIEYKLFTS  
EEEHLAETVKEILSIPSETASPEASLRVLSRAMEKSVP AIEICHLLCSVHKSFPGLQPV  
MQELAYIGVLTKEGKETWKVSNKFHLEANNKEDEKAAKEDSQPGEQNDQGETGSLPGQ  
QEKEASASPDPAKKSFI CKACDKSFHYCRLKVHMKRCRVAKSKVQCKECS ETKDSKKE  
LDKHQLEAHGAGGEPDAPKKKKRLPVTCDLCGREFAHASGMQYHKLTEHFDEKPFSC EE  
CGAKFAANSTLKNHLRLHTGDRPFMCKHCLMTFTQASALAYHTKKKHSEKMYACQYCD A  
VFAQSIELSRHVRTHTGDKPYVCRDCGKGRQANGLSIHLHTFHNIEDPYDCKKCRMSFP  
TLQDHRKHIHEVHSKEYHPCPTCGKIFSAPSMLE RHVVTHVGGKPFSCGICNKAYQQLSG  
LWYHNRTHHPDVFAAQNHRSSKFSSLCSSCDKTFPNTIEHKKHIKAEHADMKFHECDQC  
KELFPTALLQVHVCKQHSGSQPFRCLYCAATFRFP GALQHHVTTEHFKQSETTFPCELC  
GELFTSQAQLDSHLESEHPKVMSTETQAAASQMAQVIQTPEPVAPTEQVITLEETQLAGS  
QVFVTL PDSQASQASSELVAVTVEDLLDGTVTLICGEAK

>sp|Q9UFB7|ZBT47\_HUMAN Zinc finger and BTB domain-containing protein 47 OS=Homo sapiens  
GN=ZBTB47 PE=2 SV=3

MGRLENEQRLFQPDLCVDLVLVPQRSVFP AHKGVLAAYSQFFHSLFTQNKQLQRVELSLE  
ALAPGGLQQILNFIYTSKLLVNAANVHEVLSAASLLQMADIAASCQELLDARSLGPPGPG  
TVALAQPAASCTPAAPPYYCDIKQEADTPGLPKIYAREGPD PYSVRVEDGAGTAGGTVPA  
TIGPAQPF FKEEKEGGVEEAGPPASLCKLEGGELEEEELGGSGTYSRREQSQIIVEVNL  
NNQTLHVSTGPEGKPGAGSPATVV L GREDGLQRHSDEEEEDDEEEEEEEEEEGGSGR  
EEEEEEEGGSQEEEEEEEDGHSEQEEEEEEEEEGPSEQDQESSEEEEGEAGEAGKQG  
PRGSRSSRADPPPHSHMATRSRENARRGTPEPEEAGR RGKRPKPPPGVASASARGPPA  
TDGLGAKVKLEEKQHHPCKCPRVFNNRWYLEKHMNVTHSRM QICDQCGKRFLLESELL  
HRQTD CERNIQCVTCGAKFKLWSLHEHNKIVHGYAEKKFSCEICEKKFYTMAHVRKHMV  
AHTKDMPFTCETCGSKFRMSLVHSLQHSGEKPFRCENCNERFQYKYQLRSHMSIHIG  
HKQFMCQWCGKDFNMKQYFDEHMKTH TGEKPYICEICGSFTSRPNMKRHRRTHTGEKPY  
PCDVCGRFRFSNMLKAHKEKCFRV SHTLAGDGVPAAPGLPPTQPQAHALPLLPLPQTL  
PPPHLPPPPPLFPTTASPGGRMNANN

>sp|095365|ZBT7A\_HUMAN Zinc finger and BTB domain-containing protein 7A OS=Homo sapiens  
GN=ZBTB7A PE=1 SV=1

MAGGVDGPIGIPFDHSSDILSGLNEQRTQGLLCDVVILVEGREFP THRSVLAACSQYFK  
KLFTSGAVVDQQNVYEIDFVSAEALTALMDFAYTATLTVSTANVGDILSAARLLEIPAVS  
HVCADLLDRQILAADAGADAGQLDLVDQIDQRNLLRAKEYLEFFQSNPMNSLPPAAAAAA  
ASFPWSAFGASDDDLATKEAVAAVA AAGDCNGLDFYGP GPPAERPPTGDGDEGDSN  
PGLWPERDEDAPTGLFP PPVAPPAATQNGHYGRGEEEAASLSEA APEPGDSPGFLSGA  
AEGEDGDGPDVDGLAASTLLQMMSSVGRAGAAAGDSDEESRADDKGVM DYYLYKFSGAH  
DGDVYPAWSQKVEKKIRAKAFQKCPICEKVIQ GAGKLPRHIRTHTGEKPYECNICKVRFT  
RQDKLVHMRKHTGEKPYLCQQCGAAFAHNYDLKNHMRVHTGLR PYQCDSCCKTFVRSDH  
LHRHLKKDGCNGVPSRRGRKPRVRGGAPDPSPGATATPGAPAQPSSPDARRNGQEKHFKD  
EDEDEDVASPDGLGRNLVAGAGGGGDSGGGPGAATDGNFTAGLA

>sp|Q96C00|ZBTB9\_HUMAN Zinc finger and BTB domain-containing protein 9 OS=Homo sapiens  
GN=ZBTB9 PE=1 SV=1

METPTPLPPVPASPTCNAPRTIQIEFPQHSSSLLES�NRHRLEGKFCDVSLVQGRELR  
AHKAVLAAASPYFHDKLLLDGAPRLTLPVIEADAFEGLLQLIYSGRLRLPLDALPAHLL  
VASGLQMWQVVDQCSEILRELETSGGGISARGGNSYHALLSTTSSTGGWCIRSSPFQTPV  
QSSASTESPASTESPVGEGSELGEVLQIQVEEEEEEEEDDDDEDQGSATLSQTPQPQRV  
SGVFPRPHGPHPLMTATPRKLPEGESAPLELPAPPALPPKIFYIKQEPFEPKEEISGSG  
TQPGGAKEETKVFSGDTEGNGELGFLPSGPGPTSGGGGPSWKPVDLHGNEILSGGGP  
GGAGQAVHGPVKLGGTPPADGKRFGCLCGKRFAVKPKRDRHIMLTFSLRPFGGICNKRF  
KLKHHLTHEMKTHAGALHACPHCGRRFRVHACFLRHRDLCKGQGWATAHWYK

>sp|Q5D1E8|ZC12A\_HUMAN Endoribonuclease ZC3H12A OS=Homo sapiens GN=ZC3H12A PE=1 SV=1

MSGPCGEKPVLEASPTMSLWEFEDSHRQGTTPRPGQELAAEEASALELQMKVDFFRKLG  
SSTEIHSVLQKLGVAQTNTVLGELVKHGTATERERQTSPDPCQLPLVPRGGGTPKAPN  
LEPPLPEEEKEGSDLRPVVIDGSNVAMSHGKVEVFSCRILLAVNWFLERGHDTITVFVP  
SWRKEQPRPDVPI TDQHILRELEKKKILVFTPSRRVGGKRVVCYDDRFIVKLAYESDGIV  
VSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLTLE  
HRKQPCPYGRKCTYGIKCRFFHPERPSCPQRSVADELARANALLSPRAPSKDKNGRRPSP  
SSQSSSLTSEQCSLDGKKLGAQASPGSRQEGLTQTYAPSGRSLAPSGSGSSFGPTDW  
LPQTLDSL PYVSQDCLDSGIGSLESQMSSELWGVGGGPGEPGPPRAPYTGYSPIGSELPA  
TAAFSAFGRAMGAGHFSVPADYPPAPPAPFPREYWSEPYLPPTSVLQEPVQSPGAGR  
SPWGRAGSLAKEASVYTKLCGVFPHLVEAVMGRFPQLLDPQQLAAEILSYKSQHPSE

>sp|O60293|ZC3H1\_HUMAN Zinc finger C3H1 domain-containing protein OS=Homo sapiens  
GN=ZFC3H1 PE=1 SV=3

MATADTPAPASSGLSPKEEGELEDGEISDDDNNSQIRSRSSSSSSGGGLLPYPRRRPPHS  
ARGGSSGGGGSSSSSSSSQQQLRNFSRSRHASERGHRLGPPSSYRPKEPFRSHPPSVRMP  
SSSLSESSPRPSFWERSHLALDRFRFRGRPYRGGSRWSRGRVGERGGKPGCRPPLGGGA  
GSGFSSSQSWREPSPPRKSSKSFGRSPSRKQNYSSKNENCVEETFEDLLLKYKQIQLELE  
CINKDEKLALSSKEENVQEDPKTLNFEDQTSTDNVSITKDSKEVAPEEKTQVKTFQAFE  
LKPLRQKLTLPGDKNRLKKVKDGAKPLSLKSDTTDSSQGLQDKEQNLTRRISTSDILSEK  
KLGEDEEELSELQLRLALQSASKKWQKEQVMKESKEKLTKTKTQQKVKSTKTHSA  
KKVSTTAKALRKQQTAKWKKLQQKEQERQKEEDQRKQAEERREKREEEIRKIRDLSN  
QEEQYNRFMKLVGGKRRSRKSSDPDLRRSLDKQPTDGGGIYQYDNYEEVAMDTDSETS  
SPAPSPVQPPFFSECSLGYFSPAPSLSLPPPQVSSLPLSQPYVEGLCVSLEPLPLPP  
LPPLPPEDPEQPPKPPFADEEEEEEMLLREELLKSLANKRAFKPEETSSNSDPPSPVLN  
NSHPVPRSNLSIVSINTVSQPRIQNPKFHRGPRLPRTVISLPHKSVVVTLNDSDDES  
GEASKSTNSVFGGLESMIKEARRTAEQASKPVPPKSEKENDPLRTPEALPEEKKIEYRL  
LKEEIANREKQRLIKSDQLTSSSSPANSDEIDGIGRIAMVTKQVTDAESKLKHRILL  
MKDESVLKNLVQAEAKKESVRNAEAKITKLTQLQATEKILNVNRMFLKKLQEQIHRVQ  
QRVTIKKALTLKYGEELARAKAVASKEIGKRKLEQDRFGPNKMMRLDSSPVSSPRKHS  
L IAMEKRRLQKLEYEYALKIQKLKEARALKAKEQQNISPVVEEPEFSLPQPSLHDLTQD  
KLTLDEENDVDDEILSGSSRERRRSFLESNYFTKPNLKHTDTANKECINKLNKNTVEKP  
ELFLGLKIGELQKLYSKADSLKQLILKTTTGITEKVLHGQEISVDVDFVTAQSKTMEVKP  
CPFRPYHSPLL VFYSYRFSPYYRTKEKLPLSSVSYSNMIEPDQCFCRFDLTGTCDNDDCQ  
WQHIQDYTL SRKQLFQDILSYNLSLIGCAETSTNEEITASAEKYVEKLFGVNKDRMSMDQ

MAVLLVSNINESKGHTPPFTTYKDKRKWKPKFWRKPISDNSFSSDEEQSTGPIKYAFQPE  
NQINVPALDVTVPDDEVRYFTNETDDIANLEASVLENPSHVQLWLKLAYKYLNQNEGECS  
ESLDSALNVLARALENNKDNPEIWCHYLRLFSKRGTKDEVQEMCETAVEYAPDYQSFWTF  
LHLESTFEEDKYVCCERMLEFLMGAQKQTSNLSFQLLEALLFRVQLHIFTGRCQSALAI  
LQNALKSANDGIVA EYLKTSRCLAWLAYIHLIEFNILPSKFYDPSNDNPSRIVNTESFV  
MPWQAVQDVKTNPDMLLAVFEDAVKACTDESLAVEERIEACLPlyTNMIALHQLLERYEA  
AMELCKSLLESCINCLLEALVALYLQTNQHDKARAVWLTAFEKNPQNAEVFYHMCCKFF  
ILQNRGDNLLPFLRKFIASFFKPGFEKYNNLDLFRYLLNIPGPIDIPSRLCKGNFDDDMF  
NHQVPYLWLIYCLCHPLQSSIKETVEAYEAALGVAMRCDIVQKIWM DYLVFANNRAAGSR  
NKVQEFKFFTDLVNRCLVTVPARYPPIPFSSADYWSNYEFHNRVIFFYLS CVPKTQHSKTL  
ERFCSVMPANGLALRLQHEWEESNVQILKLQAKMFTYNIPTCLATWKIAIAAEIVLKG  
QREVHRLYQRALQKLPLCASLWKDQLLFEASEGGKTDNLRKLVSKCQEIGVSLNELLNLN  
SNKTESKNH

>sp|060315|ZEB2\_HUMAN Zinc finger E-box-binding homeobox 2 OS=Homo sapiens GN=ZEB2 PE=1  
SV=1

MKQPIADGPRCKRRKQANPRRKNVVYDNVVDTGSETDEEDKLHIAEDDGIANPLDQET  
SPASVPNHESPHVSQALLPREEEDEIREGGVEHPWHNNEILQASVDGPEEMKEDYDTM  
GPEATIQTAINNGTVKNANCTSDFEYFAKRKLEERDGHAVSIEEYLQRSDTAIIYPEAP  
EELSRLGTPEANGQEENDLPPGTPDAFAQLLTCPYCDRGYKRLTSLKEHIKYRHEKNEEN  
FSCPLCSYTFAYRTQLERHMTVHKPGTDQHQM L TQAGAGNRKFKCTECGKAFKYKHHLKEH  
LRIHSGEKPYECPNCKRFSHSGSYSSHISKKCIGLISVNGMRMNNIKTGSSPNSVSSS  
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GATSPLGVHPSAQSPMQHLGVGMEAPLLGFPTMNSNLSEVQKVLQIVDNTVSRQKMDCKA  
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QSLTTDSRRQISNIKKEKLRTLIDLVTDDKMIENHNISTPFSCQFCKESFPGPIPLHQHE  
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SISLDHNSVSSSSSENSDEPLNLTFIKKEFSNSNNLDNKSTNPVFSMNPFSKPLYTALPP  
QSAFPPTATFMPVPQTSIPGLRYPYGLDQMSFLPHMAYTYPTGAATFADMQQRKYQRKQG  
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EKEGEDGYGKLGRQDGEDEFEDEEESEENKSMDTDPETIRDEEETGDHSMDDSSSEDGKME  
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>sp|P31629|ZEP2\_HUMAN Transcription factor HIVEP2 OS=Homo sapiens GN=HIVEP2 PE=1 SV=2

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GPPWLPFGPLPSVASEDLFPFPIHGHSGGYPRKKISSLNPAYSQYSQKSIEQAEAAHKKE  
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HAIAKAGLVPTESAVSKLDLEAGFIDVEAEIHSDGEQSTDTEESSLFAEASDKMSPGPP  
IPLDIASRGGYHGSLEESLGGPMKVPIIIPKSGIPLPNESSQYIGPDMLPNPSLNTKAD  
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YEEI IFGKYCRLSPRNALSVTTTSQERAAMGRKGIMEPLPHVNTRLDVKMFEDPVSQLIP  
SKGDVDPSQTSMLKSTKFNSESRQPQIIPSSIRNEGKLYPANFQGSNPVLEAPVDSSPL  
IRNSVPTSSATNLTIPPSLRGSHSFDERMTGSDDVFYPGTVGIPPQRMLRRQAAFELPS  
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IQNALFQFYPTVMVHLPAQVPPWWQAHFPHFPAQHPQKSYGKPSFQTEIHSSYPLEHV  
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EEAALLGPDQPARVQEPHQNPLGSAHVSIRHFSRPEPGQPCTSAHPDLHDGEKDNFGTS  
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>sp|Q9NTW7|ZF64B\_HUMAN Zinc finger protein 64 homolog, isoforms 3 and 4 OS=Homo sapiens  
GN=ZFP64 PE=1 SV=3

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ATVISLPAKSRTKKPTTPAQKRLNCCYPGCQFKTAYGMKDMERHLKIHTGDKPHKCEVC  
GKCFSRKDKLKTTHMRCHTGVPYKCKTCDYAAADSSSLNKHRLIHSRDERPFKCQICPYAS  
RNSSQLTVHLRSHTASELDDVPKANCLSTESTDTPKAPVITLPSEAREQMATLGERTFN  
CCYPGCHFKTVHGMKDLDRHLRIHTGDKPHKCEFCDKCFSRKDNLTMHMRCHTSVKPHKC  
HLCDYAAVDSSSLKKHLRIHSRDERPYKQCLCPYASRNSSQLTVHLRSHTGDTPFQCWLCS  
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DLEHSRLHQADHPEKCPECSYSCSSAAALRVHSRVHCKDRPFKCDFCSDTKRPSSLAK  
HVDKVHRDEAKTENRAPLGKEGLREGSSQHVAKIVTQRAFRCETCGASFVRDDSLRCHKK  
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>sp|Q15911|ZFHX3\_HUMAN Zinc finger homeobox protein 3 OS=Homo sapiens GN=ZFHX3 PE=1 SV=2

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DEESDVENLAGEIVYQPDGSAYIVESLSQLTQGGGACGSGSGGPLPSLFLNSLPGAGGK  
QGDPSCAAPVYPQIIINTFHIASSFGKWFEGPDQAFNPNTSALAGLSPVLHSFRVFDVRHKS  
NKDYLSNDGSAKSSCVSKDVPNNVDLSKFDGFVLYGKRKPILMCFLCKLSFGYVRSFVTH  
AVHDHRMTLSEDERKILSNKNISATIIQGIGKDKEPLVSFLEPKNKNFQHPLVSTANLIGP  
GHSFYGKFSGIRMEGEEALPAGSAGPEQPQAGLLTPSTLLNLGGLTSSVLKTPITSVPL  
GPLASSPTKSSEKDSGAAEGEKQEVGDGDCFSEKVEPAEEEEEEEEEEEEEEEEEEEE  
EEEEEEEEDEGCKGLFPSELDEELED RPHEEPGAAAGSSSKDLALSNSISNSPLMPNVL  
QTLSRGTA STSSNSASSFVFDGANRRNRLSFNSEGVRANVAEGRRLDFADESANKDNA  
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MMHSRNSCKTLKCPKCNWHYKYQQTLEAHMKEKHPEPGGSCVYCKSGQPHPR LARGESYT  
CGYKPFRCVENCYSTTTKGNLSIHMQSDKHLNMQNLQNGGGEQVFSHTAGAAAAVAAA  
AAAANISSCGAPSTPKTKPTWRCEVCDYETNVARNLRIHMTSEKHMHNMLLQQNMT  
QIQHNRHLGLGSLPSPAEALYQYYLAQNMNLPNLKMDSAASDAQFMMSGFQLDPAGPMA  
AMTPALVGGEIPLDMRLGGGQLVSEELMNLGESFIQTNDPSLKLQCAVCNKFTTDNLDM  
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GGKANEWRLKCAIGNPVHLKCNACDYITNSLEKRLRLHTVNSRHEASLKYKHLQQHESG  
VEGESCYHYCVLCNYSTKAKLNLIQHVSRMKHQ RSESRLKLQRLQKGLPEEDEDLGQIFT  
IRRCPTDPEEAIEDVEGPSETAADPEELAKDQEGGASSSQAEKELT DSPATSKRISFPG  
SSEPLSSKRPKTAEI IKPEQMYQCPYCKYSNADVNRLRVHMTQHSVQPMLRCPLCQDM  
LNNKIHLQLHLTHLSVAPDCVEKLI MTVTTPMEMVMPSSMFLPAAVPDRDGN SNLEEAGK  
QPETSEDLGKNILPSASTEQSGDLKPSADPGSVREDSGFI CWKKG CNQVFKTSAALQTH  
FNEVHAKRPQLPVS DRHVYKYRCNQCSLAFKTI EKLQLHSQYHVIRAATMCCLCQRSFRT  
FQALKKHLETSHLESEADIIQQLYGGLLANGDLLAMGDPTLAEDHTII IVEEDKEEESDLE  
DKQSPTGSDSGSVQEDSGSEPKRALPFRKGP NFTMEKFLDPSRPYKCTVCKESFTQKNIL  
LVHYNVSHLHLKLRALQESATGQPEPTSSPDNKPFKCN CNVAYSQSSTLEIHMRSVLH  
QTKARA AKLEAAGSSNGTGNSSSISLSSSTPSPVSTSGSNTFTTSSNPSSAGIAPSSNLL  
SQVPTESVGMPP LGNPIGANIASPSEPKEANRKKLADMIASRQQQQQQQQQQQQQQQQQ  
QAQTLAQAQAQVQAHLQQELQQQAALIQSQLFNPTLLPHFPMTTETLLQLQQQQHLLFPF  
YIPSAEFQLNPEVSLPVTSGALTGTGPGLLEDLKAQVQVPQQSHQQLPQQQQNQLSI  
AQSHSALLQPSQHPEKKNKLVIKEKEKESQRERDSAEGGEGNTGPKETLPDALKAKEKKE  
LAPGGGSEPSMLPPRIASDARGNATKALLENFGFELVIQYNENKQVQKKNKGT DQGENL  
EKLECDSCGKLF SNILILKSHQEHVHQNYFPFKQLERFAKQYRDHYDKLYLRLPQTPEPP  
PPPPPPPPPLPAAPPQ PASTPAIPASAPPITSPTIAPAQPSVPLTQLSMPMELPIFSPL  
MMQTMPLQTLPAQLPPQLGPVEPLPADLAQLYQHQLNPTLLQQQNKRPRTTRITDDQLRVL  
RQYFDINNSPSEEQIKEMADKSGLPQKVIKHWFRTL FKERQRNKDSPYNFSNPPIITSLE  
ELKIDSRPPSPEPKQEYWGSKRSSRTRFTDYQLRVLQDFFDANAYPKDDEFEQLSNLLN  
LPTRVIVVWFQNA RQKARKNYENQGGEGK DGERREL TNDRYIRTSNLNYQCKKCSLVFQRI  
FDLIKHQKKLCYKDEDEEGQDDSQNEDSMDAMEILTPTSSSCSTPMPSQAYSAPAPSANN

```
>sp|Q8N6M9|ZFN2A_HUMAN AN1-type zinc finger protein 2A OS=Homo sapiens GN=ZFAND2A PE=2
SV=2
```

```
>sp|Q8WV99|ZFN2B_HUMAN AN1-type zinc finger protein 2B OS=Homo sapiens GN=ZFAND2B PE=1
SV=1
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```
>sp|Q9HCL3|ZFP14 HUMAN Zinc finger protein 14 homolog OS=Homo sapiens GN=ZFP14 PE=2 SV=2
```

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ERKEPGMVVREGTRRYCPDLESRYRTNTLSPEKDIYEIYSFQWDIMERIKSYSLQGSIFR  
NDWECKSKIEGEKEQQEGYFGQVKITSEKMTTYKRHNFLT EYQIVHNGEKVYECKECKRT  
FIRRTLSQHLRIHTGEKPYKCKEKGAFRQRAHLIRHHKLHTGEKPYECKECKGAFTVL  
QELTQHQR LH TGEKPYECKECKGAFRVHQQLARHQR IHTGEKPYECKDCGKTFRQCTHLT  
RHQR LH TAEKLYECKECKGAFVCGPDLRVHQKIHFG EKPYECKECKGAFRICQQLTVHQS  
IHTGEKPYECKECKGKTFR LRQQLVRHQR IHTREKPYECMECWKTFSSYSQLISHQSIHIG  
ERPYECEECGAFRLLSQLTQHQS IHTGEKPYECKECKRKPFRLLS QL TQHQS IHTGEKPY  
ECKECKGAFRLYSFLTQHQR IHTGEKPYKCKECKKAFRQSHSLTQHQKIHNGI

>sp|Q8NHY6|ZFP28\_HUMAN Zinc finger protein 28 homolog OS=Homo sapiens GN=ZFP28 PE=1 SV=1  
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AAPTGPGRHALPSRDALPQERNKKLEAVGTGIEPKAMSQLVTFGDVAVDQSQEEWEWL  
NPIQRNLRYKVMLENYRNLASLGLCVSKPDVSSLEQGKEPWTVKRKMTRAWCPDLKAVW  
KIKELPLKKDFCEGKLSQAVITERLTSYNLEYSLLGEHWDYDALFETQPGLVTIKNLAVD  
FRQQLHPAQKNFCKNGIWENNSDLGSAGHCVAKPDLSLLEQEKEPMMVKRELTSLSFSG  
QRSVHETQELFPKQDSYAEGVTDRTSNTKLDSSSFRENWSDYVFGRKLAVGQETQFRQE  
PITHNKTLSKERERTYNKSGRWFLDDSEEKVNHRDSIKNFQKSSVVIKQTGIYAGKKLF  
KCNECKKTFTQSSSLTVHQRIHTGEKPYKCECGKAFSDGSSSFARHQRCHTGKKPYECIE  
CGKAFIQNTSLIRHWRYHTGEKPFDCIDCGKAFSDHIGLNQHRRIHTGEKPYKCDVCHK  
SFRYGSSTLVHQRIHTGEKPYECDVCRKAFSHASLTQHQRVHSGEKPFKCKEKGKAFRQ  
NIHLASHLRIHTGEKPFCEACGKSFSISSQLATHQRIHTGEKPYECKVCSKAFQKAHL  
AQHQKTHTEKPYECKEKGKAFSQTHLIQHQRVHTGEKPYKCECGKAFGDNSSCTQH  
RLHTGQRPYECIECGKAFKTKSSLIHRRSHTGEKPYECVCGKAFSHRQSLSVHQRIHS  
GKKPYECKEKRKTFIQIHLNQHQRVHTGERSYNYKSRKVFRQTAHLAHHQRIHTGESS  
TCPSLPSTSNPVDLFPKFLWNPSSLPSP

>sp|P08048|ZFY\_HUMAN Zinc finger Y-chromosomal protein OS=Homo sapiens GN=ZFY PE=1 SV=3  
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DSVVIQDVVEDVVEEDVQCSDILEEADVSENVIIPEQVLDSDVTEEVSLPHCTVPDDVL  
ASDITSTSMSMPEHVLTSSEMHVCDIGHVEHMHVDSVVEAEIITDPLTSDIVSEEVLVAD  
CAPEAVIDASGISVDQDNDKASCEDYLMISLDDAGKIEHDGSTGVTIDAESEMDPCKVD  
STCPEVIKVYIFKADPGEDDLGGTVDIVSEPENDHGVLLDQNSSIRVPREKMYMTVN  
DSQQEDEDLNVAEIADEVYMEVIVGEEDAASAAAAAAVHEQQIDEDEMKTFVPIAWAAAY  
GNSDGIENRNGTASALLHIDESAGLGRKAKQPKKKRRPDSRQYQTAIIGPDGHPLTV  
YPCMICGKKFKSRGFLKRMKNHPEHLAKKKYHCTDCDYTTNKKISLHNHLESHKLT  
EKAIECDECGKHFHAGALFTHKMVHKEKGANKMHKCKFCEYETAEGLLNRHLLAVHSK  
NFPHICVECGKGRHPSSELKHMRIHTGEKPYQCQYCEYRSADSSNLKTHIKTKHSEMP  
FKCDICLLTFSDTKEVQHTLVHQQESKTHQCLHCDHKSSNSDLKRHVISVHTKDYPHKC  
EMCEKGFRHPSSELKHHVAVHKGKMKHQCRHCDFKIADPFVLSRHILSVHTKDLPRCKRC  
RKGRQQLNELKKHMKTHSGRKVYQCEYCEYSTTDASGFKRHVISIHTKDYPHRCEYCKKG  
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>sp|Q9BRRO|ZKSC3\_HUMAN Zinc finger protein with KRAB and SCAN domains 3 OS=Homo sapiens  
GN=ZKSCAN3 PE=1 SV=2

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REALSRLRELCRQWLQPEMHSKEQILELLVLEQFLTILPGNLQSWVREQHPESGEEVVVL  
LEYLERQLDEPAPQVSGVDQGQELLCKMALLTPAPGSQSSQFQLMKALLKHESVGSQPL  
QDRVLQVPVLAHGGCCREDKVVASRLTPESQGLLKVEDVALTTPPEWTQQDSSQGNLCRD  
EKQENHGSLSVSLGDEKQTKSRDLPPAEELPEKEHGKISCHLREDIAQIPTCAEAGEQEGR  
LQRKQKNATGRRRHICHECGKSFAQSSGLSKHRIHTGEKPYECEECGKAFIGSSALVIH  
QRVHTGEKPYECEECGKAFSHSSDLIKHQRTHTGEKPYECDDCGKTFSSQCSLLEHHRH  
TGEKPYQCSMCGKAFRRSSHLRHQRIHTGDKNVQEPEQGEAWKSRMESQLENVETPMSY  
KCNCEERSFTQNTGLIEHQKIHTGEKPYQCACGKGFTRISYLVQHQRSHVGNILSQ

>sp|Q96NC0|ZMAT2\_HUMAN Zinc finger matrin-type protein 2 OS=Homo sapiens GN=ZMAT2 PE=1  
SV=1

MASGSGTKNLDFRRKWDKDEYEKLAEKRLTEEREKKDGKPVQPVKRELLRHRDYKVDLES  
KLGKTIVITKTPQSEMGGYYCNVCDVVKDSINFLDHINGKKHQRNLGMSMRVERSTLD  
QVKKRFEVNNKKMEEKQKDYDFEERMKELREEEEEKAKAYKKEKQKEKKRRAEEDLTFEED  
DEMAAVMGFSGFGSTKKS

>sp|Q96E35|ZMY19\_HUMAN Zinc finger MYND domain-containing protein 19 OS=Homo sapiens  
GN=ZMYND19 PE=1 SV=1

MTDFKLGIVRLGRVAGTKYTLIDEQDIPLVESYSFEARMEVDADGNGAKIFAYAFDKNR  
GRGSGRLLHELLWERHGGVAPGFQVVHLNAVTVDNRLDNLQLVPWGWPRKAEETSSKQR  
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>sp|Q12901|ZN155\_HUMAN Zinc finger protein 155 OS=Homo sapiens GN=ZNF155 PE=1 SV=4

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REEKFWMGTATQREGSSGGKIQTELESVPEAGAHEEWSCQIWEQIAKDLTRSQDSIIN  
NSQFFENGDVPSQVEAGLPTIHTGQKPSQGGKCKQSIDVPIFDLPQQLYSEEKSYTCDE  
CGKSICYISALHVHQRVHVGEKLFMCDVCGKEFSQSSHLQTHQRVHTGEKPFKCEQCGKG  
FSRRSALNVHRKLHTGEKPYICEACGKAFIHDSQLKEHKRIHTGEKPFKCDICGKTFYFR  
SRLKSHSMVHTGEKPFRCDCDKSFHQRSALNRHCMVHTGEKPYRCEQCGKGFIRLDFY  
KHQVVHTGEKPYNCKEKGKSFWRSSCLLNHQRVHSGEKSFKCEECGKGFYTNSQLSSHQR  
SHSGEKPYKCEECGKGYVTKFNLDLHQRVHTGERPYNCKEKGKNSRASSILNHRKLHCQ  
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>sp|Q9HCG1|ZN160\_HUMAN Zinc finger protein 160 OS=Homo sapiens GN=ZNF160 PE=2 SV=3

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HESPDIEDFSFKEPQKNVHDFECQWRDDTGNYKGVLMQAQEGKRDQRDRRDIENTLMNNQ  
LGVSFHSHLPELQLFQGEKMYECNQVEKSTNNGSSVSPLQQIPSSVQTHRSKKYHELNH  
FSLLTQRRKANSCGKPYKNECGKAFTQNSNLTSHRRIHSGEKPYKCECGKTFTVRSNL  
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FKNECSKVFTQNSQLANHRRIHTGEKPYKNECGKAFSVRSSLTTHQAIHSGEKPYKCI  
ECGSFTQKSHLRSHRGISGEKPYKNECGKVFAQTSQLARHWRVHTGEKPYKNCDCGR  
AFSDRSSLTFHQAIHTGEKPYKCECGKVFRHNSYLATHRRIHTGEKPYKNECGKAFSM  
HSNLTHKVIHTGEKPYKNCQCGKVFTQNSHLANHQRTHTGEKPYKNECGKAFSVRSSL  
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>sp|P51786|ZN157\_HUMAN Zinc finger protein 157 OS=Homo sapiens GN=ZNF157 PE=2 SV=2

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LLHHQKIQTLDQNVYEYNGCRKAFHEKTGFVRRKRTPRGDKNFECHECGKAYCRKSNLVEH  
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TGERPYECTECGKTFSEKATLTIHQRTHTGEKPYECSECGKTFRVKISLTQHHRTHTEK  
PYECGECGKNFRAKSLNQHRIHTGEKPYECGECGKFFRMKMTLNHQRTHTEKPYQC  
NECGKSFVRHSSLGIIHQRIHTGEKPYECNECGNAFYVKARLIEHQRMHSGEKPYECSECG  
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>sp|Q9UJW8|ZN180\_HUMAN Zinc finger protein 180 OS=Homo sapiens GN=ZNF180 PE=1 SV=2  
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TGSLTIPSEQGVNFKIVTVDFTREEQGTWNPAQRTLDRDVILENHRDLVSWDLATAVGKK  
DSTSKQRIFDEEPANGVKIERFTRDDPWLSSCEEVDDCKDQLEKQKEKQEILLQEVAFTQ  
RKAVIHERVCKSDETEKESGLNSSLFSSPVIPRNHFHKHVSNAKWHLNAAVNSHQKIN  
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FDFKECGQVLNPKISHNEQQRIPFEESQYKSETSHSSSLTQNMNRNNEEKPFEKNQCGK  
SFSWSSHLVAHQRTHTGEKPYECSECGKSFSRSSHLVSHQRTHTGEKPYRCNQCGKSFSQ  
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IAHQRIHTGEKPYECNQCGKSFSQSYKLVAHQRTHTGEKPFECNQCGKSFSWSSQLVAHQ  
RTHTGEKPYECSECGKSFNRSSHLVMHQRIHTGEKPYECNQCGKSFSQSYVLVVHQRTHT  
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>sp|Q95201|ZN205\_HUMAN Zinc finger protein 205 OS=Homo sapiens GN=ZNF205 PE=1 SV=2  
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ASQEDGAQGAWAPLHSGSKEKALFLPGGALPSPRIPVLSREGRTRDRQMAAALLTAW  
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SGSSRQAGDEKEWRGACTGAVEVGQRVQTSSVAALGNVKPFRTRAGRVQWGPQCAQEA  
CGRSSGPAKDSGQPAEPDRTPDAAPPDPSPTEPQEYRVPEKPNEEEKGAPESGEEGLAPD  
SEVGRKSYRCEQCGKGSFWSHSLVTHRRTHTEKPYACTDCGKRFRSSHLIQHQIHTG  
EKPYTCPACRKSFSHHSTLIHQHQRIHTGEKPYVCDRCAKRFTRRSDLVTHQGTHTGAKPH  
KCPICAKCFTQSSALVTHQRTHTEKPYPCPECGKCSQRSNLIHNRTHTEKPYHCLD  
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>sp|Q9UDV6|ZN212\_HUMAN Zinc finger protein 212 OS=Homo sapiens GN=ZNF212 PE=1 SV=3  
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PQTKKAKLHQCDVCLRSFCKVSLVTHQRCHLQEGPSAGQHVQERFSPNSLVALPGHIPW  
RKSRSSLICGYCGKSFSHPSDLVRHQRIHTGERPYSCTECEKSFVQKQHLQHKKIHQRE  
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>sp|Q9UL59|ZN214\_HUMAN Zinc finger protein 214 OS=Homo sapiens GN=ZNF214 PE=2 SV=2  
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LTFESKSLRNLKYKNFMPWQSLETKTTQDYGREIYMSGSHGFQGGRYRLGISRKNLSMEK  
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QPGENLCQCSICKACFSQRSDLYRHPRNHIGKKLYGCDEVDGNFHQSSGVHVFHQRVHIGE  
VPYSCNACGKSFSQISSLHNHQRVHTEEFYKIECDKDLSRNLLHIHQRLHIGEPFKC  
NQCGKSFNRSSVLHVHQRVHTGEKPYKCECGKGSQSSNLRHQLVHTGEKSYKCEDCG  
KGFTQRSNLQIHQRVHTGEKPYKCDGKDFSHSSDLRIHQRVHTGEKPYTCPECGKGS

KSSKLHTHQRVHTGEKPYKCEECGKGFSSQRSHLLIHQRVHTGEKPYKCHDCGKGFSSSN  
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HRRGNL

>sp|Q9P2Y4|ZN219\_HUMAN Zinc finger protein 219 OS=Homo sapiens GN=ZNF219 PE=1 SV=2  
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HLHILHRPWKCLCSFGSSQEEELLHHS LTAHGAPERPLAATSAAPPQPQPQPQPPEP  
RSVPQPEPEPEPEREATPTPAPAAPEEPPAPPEFRCQVCGQSFTQSWFLKGHMRKHKASF  
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LLLAPAPTPAERREPPSLLGYLSLRAGEGRPNGEAEPGPGRSFGGRPLSSALPARARR  
HRAEEPEEEEEVVEAEETWARGRSLGSLASLHPRPGEGPGHSASAAGAQRSTATQEEN  
GLLVGGTRPEGGRGATGKDCPFCGKSFRSAHHLKVHLRVHTGERPYKCPHCDYAGTQSGS  
LKYHLQRHHREQRSGAGPPEPPPPPSQRGSAPQSGAKPSPQPATWVEGASSPRPPSSG  
AGPGSRRKPASPGRTLNRGRGGEAEPLDLSLRAGPGGEAGPGGALHRCLFCPFATGAPEL  
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ER

>sp|Q16600|ZN239\_HUMAN Zinc finger protein 239 OS=Homo sapiens GN=ZNF239 PE=1 SV=3  
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ETYLPLKVSSQIDTQDSSVKFCKNEPQDHQESRRLFVMEESTERKVIKGESCSENLQVKL  
VSDGQELASPLLNGEATCQNGQLKESLDPIDCNCKDIHGWSQVVSQSQRAHTEEKPCD  
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SQSSKLHHQRVHTGEKPYECEECGMSFSQRSNLHHQRVHTGERPYKCGECGKGFSSQSS  
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>sp|Q9BRH9|ZN251\_HUMAN Zinc finger protein 251 OS=Homo sapiens GN=ZNF251 PE=2 SV=4  
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PELISQLEQGKELWVLNLLGAEEPDI LKSCQKDSEVGTKKELSILNQKFSEEVKTPEFVS  
RRLLRDNAQAAEFREAWGREGKLKERVGNSAGQSLNKPNIHKRVLTEATVGRERSLGERT  
QECSAFDRNLNDQNVVRLQRNKTGERVFKCDICSKTFKYNSDLRHRQSRHTGEKPYECG  
RCGRAFTHSSNLVHHHIHTGNKPFKDECGKTFGLNSHLRLHRIHTGEKPFGCCECGK  
AFSRSTLIQHRIHTGEKPYKNECGRGFSQSPQLTQHQRHTGEKPECSHCGKAFSR  
SSSLIQHERIHTGEKPHKCNQCGKAFSQSSSLFLHHRVHTGEKPYVNECGRAFGFNHSL  
TEHVRIHTGEKPYVNECGKAFFRSSTLVQHRRVHTGEKPYQVCECGKAFSQSSQLTLHQ  
RVHTGEKPYDCGDCGKAFSRRSTLIQH QKVHSGETRCKRHGPAFVHGSSLTADGQIPTG  
EKHGAFNHGANLILRWTVHTGEKSFGCNEYGKAFSPTS RPTEDQIMHAGEKPYKQCECG  
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>sp|075346|ZN253\_HUMAN Zinc finger protein 253 OS=Homo sapiens GN=ZNF253 PE=2 SV=2  
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SNLTTHKKIHTGEKPYKCEECGKAFNRSTDLTTHKIVHTGEKPYKCEECGKAFKHPSHVT  
THKKIHTRGKPYNCEECGKSFKHCSNLTTHKRIHTGEKPYKCEECGKAFHLSHLTTHKI  
LHTGEKPYRCRECGKAFNHSTTLFSHEKIHHTGEKPYKCEECGKTFTWPSILSKHKRTHG  
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>sp|Q9Y2Q1|ZN257\_HUMAN Zinc finger protein 257 OS=Homo sapiens GN=ZNF257 PE=2 SV=2  
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DECKVCKGGYNGLNQCLITTSKMYQCDKYVKVIFYKFSNSDRHKIRHTEKKTCKCKEKGK  
SFCMLSQLTRHKRIHIRENSHKCEECGKAFNQSSALTRHKMTHTGEKPYKCEECGKAFNR  
SSHLTQHKVIHTREKPYKCEECGKAFNRSSHITQHKRIHNREKPFKYDECCKAFKWSSAL  
TTLTQHKRIHTGEKPYKCEECGKAFNQSSALTRHKMIHTGEKPFQCEECGKAFNRSSHLT  
QHKIHTKEKPYKCEECGKAFNRSSHLTQHKRIHTREKAYKCDEYCKAFNWSSALTTLTQ  
HKIHTGEKPYKCEECGKAFNRSSYLIRHKIHTGEKPYKCEECGKAFNQSSHLTQHKII  
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>sp|Q9NRM2|ZN277\_HUMAN Zinc finger protein 277 OS=Homo sapiens GN=ZNF277 PE=1 SV=2  
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INSTAPFEEQENYFLLCDVLPEDRILREELQKQRLREILEQQQERNDTNFHGVMFCNE  
EFLGNRSVILNHMAREHAFNIGLPDNIIVNCNEFLCTLQKKLDNLQCLYCEKTFRDKNTLK  
DHMRKKQHRKINPKNREYDRFYVINYLELGKSWEEVQLEDDRELLDHQEDDWSDWEEHPA  
SAVCLFCEKQAEITIEKLYVHMEDAHEFDLLKIKSELGLNFYQQVKLVNFIRRVHQCRCY  
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>sp|Q9Y2X9|ZN281\_HUMAN Zinc finger protein 281 OS=Homo sapiens GN=ZNF281 PE=1 SV=1  
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TSFTRPAGSAAPPQCVLSSSTSAAAPAEPPPPAPDMTFKKEPAASAAAFPSQRTSWGF  
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SKPSLVGDGEGAILSPSQKPHICDHCSAAFRSSYHLRRHVLHTGERPFQCSQCSMGFIQ  
KYLQRHEKIHRSREKPFQCDQCSMKFIQKYHMERHKKRTHSGEKPYKCDTCQQYFSRTDRL  
LKHRRTCGEVIVKGATSAEPGSSNHTNMGNLAVLSQGNTSSSRRTKSKSIAIENKEQKT  
GKTNESQISNNINMQSYSVEMPTVSSSGGIIGTGIDELQKRVPKLIFKKGSRKNTDKNYL  
NFVSPLPDIVGQKSLSGKPSGLGIVSNNSVETIGLLQSTSGKQGQISSNYDDAMQFSKK  
RRYLPTASSNSAFSINVGHMVSQQSVIQSAGVSVLDNEAPLSLIDSSALNAEIKSCHDKS  
GIPDEVLSILDQYSNKSESQKEDPFNIAEPRVDLHTSGEHSSELVQENLSPGTQTPSND  
KASMLQEYSKYLQAFQEKSTNASFTLGHGFQFVLSLSSPLHNHTLFPEKQIYTTSPLECGF  
GQSVTSVLPSSLPKPPFGMLFGSQPGLYLSALDATHQQLTPSQELDDLIDSQKNLETSSA  
FQSSSQKLTSQKEQKNLESSTGFQIPSELASQIDPQKDIEPRTTYQIENFAQAFGSQFK  
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>sp|Q9HBT7|ZN287\_HUMAN Zinc finger protein 287 OS=Homo sapiens GN=ZNF287 PE=2 SV=1  
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SQLRELCLKWLRPEIHSKEQILELLVLEQFLTILPGEVRTWVKSQYPESSSEEAVTLVEDL

TQILEEEAPQNSTLSQDTPPEEDPRGKHAFQTGWLNDLVTKESMTFKDVAVDITQEDWELM  
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TPVEDMSKLTKEETHTIKLEDSYDYDDRLERRGKGGFWKIHTDERGFSLSKSVLSQEYDPT  
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QCGKAFSQRHLTIHQRIHTGEKPYKCDDCGKDFSQRHLTIHQRTHTGEKPYKCLECGK  
TFSSHSSSLINHQRVHTGEKPYICNECGKTFQSSTHLLQHQKIHTGKKPYKCNECWKVSQ  
STYLIRHQRIHSGECKYKCNECGKAFHSSSTLIQHQTTHTGEKSYICNICGKAFSQSANL  
TQHHRHTHTGEKPYKCSVCGKAFSSVHLTQHQRHNGEKPFCNICGKAYRQGANLTQH  
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>sp|060281|Zn292\_HUMAN Zinc finger protein 292 OS=Homo sapiens GN=ZNF292 PE=1 SV=3

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LSDKQWEQFQTLVQVAHEKLMENGSCELHFLATLAQETGVWKNPVLCILSQEPLDKDKV  
NEFLAFEGPILDMRIKHLIKTNQLSQATALAKLCSDHPEIGIKGSFKQTYLVCLCTSSP  
NGKLIEEISEVDCKDALEMICNLESEGDEKSALVLCATFLSRQLQQGDMYCAWELTLFWS  
KLQQRVEPSIQVYLERCRLSLLTKTVYHIFFLIKVINSETEGAGLATCIELCVKALRLE  
STENTEVKISICKTISCLLPDDLEVKRACQLSEFLIEPTVDAYYAVEMLYNQPDQKYDEE  
NLPIPNSLRCELLVLKTQWPFDFEFDWKTILKQCLALMGEEASIVSSIDELNDSEVYE  
KVVDYQEESKETSMNGLSGVGANGSLLKDIGDEKQKKREIKQLRERGFISARFRNWQAY  
MQYCVLCDKEFLGHRIVRHAQKHKDGIIYSCPICAKNFNSKETFVPHVTLHVQSSKERL  
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KDKSYEPEVIPVQKPVVNEFNCPTVFCCKGFKYFKNLIAHVKGHKDNEDAKRFLEMQSK  
KVICQYCRRHFSVTHLNDHLQMHCGSKPYICTQMKCKAGFNSYAELLTHRKEHQVFRAK  
CMFPKCGRIFSEAYLLYDHEAQHYNTYTCKFTGCGKVYRSQGELEKHLDDHSTPPEKVLP  
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TPLSSMESVINPNITSQDKNEQGGM LCSQMENLPSTALPAQMEDLTKTVLPLNIDSGSD  
PFLPLPAESSMSLFPSPADSGTNSVFSQLENNTNHYSSQIEGNTNSSFLKGNGENAVF  
PSQVNVANFSSNAQQAPEKVKKDRGRPNGKERKPKHNKRAKWPAAIRDGKFICSRC  
YRAFTNPRSLGGHLSKRSYCKPLDGAEIAQELLQSNGQPSLLASMILSTNAVNLQQPQQS  
TFNPEACFKDPSFLQLLAENRSPAFLPNTFPRSGVTNFNTSVSQEGSEIIKQALETAGIP  
STFEGAEMLSHVSTGCVSDASQVNATVMPNPTVPPLLHTVCHPNTLLTNQNRTSNSKTSS  
IEECSSLPVFPTNDLLLKTVENGLCSSSFPNSGGPSQNFTSNSSRVSVISGPQNTRSSHL  
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SLVENLTQKLNNVNNQLFMTDVKENFKTSLESHTVLAPLTLKTENGDSQMMALNSCTTSI  
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VQNNKLPDSSPSSFISVMPTKSNIPQSEVSHKEDQIQEILEGLQKLKLENDLSTPASQC  
VLINTSVTLTPTPVKSTADITVIQPVSEMINIQFNDKVNKPFVCQNQGCNYSAMTKDALF

KHYGKIHQYTPEMILEIKKNQLKFAPFKCVPTCTKTFTRNSNLRAHCQLVHHFTTEEMV  
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NSRTTATVSQKEVEKNEKDEMDDELTELFITKLINEDSTSVETQANTSSNVSNDFQEDNLC  
QSERQKASNLKRVNKEKNVSQNKRRKVEKAEPASAAELSSVRKEETAVAIQTIEEHPAS  
FDWSSFPMGFEVSFLKFLSESAVKQKKNTDKDHPNTGNKKGSHSNSRKNIDKTAVTSGN  
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>sp|Q96RE9|ZN300\_HUMAN Zinc finger protein 300 OS=Homo sapiens GN=ZNF300 PE=1 SV=1

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KSHLIHKRIHTGEKPYKCAQCEEAFSRKTELITHQLVHTGEKPYECTECGKTFSRKSQL  
IIHQRTHTGEKPYKCECGKAFQKSHLIGHQRIHTGEKPYICTECGKAFSQKSHLPGHQ  
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VVK

>sp|A6NFI3|ZN316\_HUMAN Zinc finger protein 316 OS=Homo sapiens GN=ZNF316 PE=1 SV=1

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>sp|Q6U7Q0|ZN322\_HUMAN Zinc finger protein 322 OS=Homo sapiens GN=ZNF322 PE=1 SV=2

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>sp|Q5BKZ1|ZN326\_HUMAN DBIRD complex subunit ZNF326 OS=Homo sapiens GN=ZNF326 PE=1 SV=2

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GGEVGVVGEVGEVEVEVEELEEETAKEEPADFPVEQPEEN

>sp|Q86UD4|ZN329\_HUMAN Zinc finger protein 329 OS=Homo sapiens GN=ZNF329 PE=1 SV=2

MRLKMTTRNFPEREVPCDVEVERFTREVPCLSLGDGWCENQEGHLRQSALTLEKPGTG  
EAICEYPGFGEHLIASSDLPPSQRVLATNGFHAPDSNVSGLCDPALPSYPKSYADKRTG  
DSDACGKGFNHSMEV IHGRNPVREKPYKYPESVKSFNHFTSLGHQKIMKRGKKSIEGKNF  
ENIFTLSSSLNENQRNLPGEKQYRCTECGKCFKRNSLVLHRTHTGEKPYTCNECGKSF  
SKNYNLIVHQRHTGEKPYECSKCGKAFSDGSALTQHQRHTGEKPYECLECGKTFNRNS  
SLILHQRHTHTGEKPYRCNECGKPFDTISHLTVHLRIHTGEKPYECSKCGKAFRDGSYLTQ  
HERHTHTGEKPFCEACGKSFNRNSHLIVHQLHSGEKPYECKECGKTFIESAYLIRHQRI  
HTGEKPYGCNQCKLFRNIAGLIRHQRTHTGEKPYECNQCGKAFRDSSCLTKHQRIHTKE  
TPYQCPECGKSFQNSHLAVHQLHSREGPSRCPQCGKMFQKSSSLVRHQRAHLGEQPME  
T

>sp|Q6P1L6|ZN343\_HUMAN Zinc finger protein 343 OS=Homo sapiens GN=ZNF343 PE=1 SV=1

MMLPYPSALGDQYWEEILLPKNGENVETMKKLTQNHKAKGLPSNDTDCPQKKEGKAQIVV  
PVTFRDVTVIFTEAEWKRLSPEQRNLYKEVMLENYRNLLSLAEPKPEIYTCSSCLLAFSC  
QQFLSQHVLQIFLGLCAENHFHPGNSSPGHWKQQGQQYSHVSCWFENAEGQERGGGSKPW  
SARTEERETSRAFPSPLQRQSASPRKGNMVVETEPSSAQRPNPVQLDKGLKELETLRFGA  
INCREYEPDHNLESNFTINPRTLLGKKPYICSDCGRSFKDRSTLIRHHRIHSMEKPYVCS  
ECGRGFSQKSNLSRHQRTHSEEKPYLCRECGQSFRSKSILNRHQWTHSEEKPYVSECGR  
GFSEKSSFIRHQRTHSGEKPYVCEGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQ  
NSDLIKHQRTHLDEKPYVCRECGRGFCDKSTLIHERTHSGEKPYVCGECGRGFSRKSLL  
LVHQRTHSGEKHYVCRECRRGFSQKSNLIRHQRTHSNEKPYICRECGRGFCDKSTLIVHE  
RTHSGEKPYVSECGRGFSRKSLLLVHQRTHSGEKHYVCRECGRGFSHKSNIHQRTHT

>sp|Q8N895|ZN366\_HUMAN Zinc finger protein 366 OS=Homo sapiens GN=ZNF366 PE=1 SV=1

MQKEMKMIKDEDVHFDLAVKKTSPFPHCLQPVASRGKAPQRHPFPEALRGPFQFRYEPP  
PGDLDFPGVFEGAGSRKRKSMPTKMPYNHPAEEVTLALHSEENKNHGLPNLPLLFPQPP

RPKYDSQMIDLCNVGFQFYRSLEHFGGKPVKQEP IKPSAVWPQPTPTPFLPTPYPPYPKV  
HPGLMFPFFVPPSSSPFFSRHTFLPKQPPEPLLPRKAEPQESEETKQKVERVDVNVQIDD  
SYVVDVGGSQKRWQCPTCEKSYTSKYNLVTHILGHSGIKPHACTHCGKLFKQLSHLHSTM  
LTHQGRPHKQCVCHKAFTQTSHLKRHMMQHSEVKPHNCRVCGRGFAYPELKAHEAKHA  
SGRENICVEGLDFPTLAQLKRHLTTHRGPIQYNCSECDKTFQYPSQLQNHMMKHKDIRP  
YICSECGMEFVQPHHLKQHS LTHKGVKEHKCGICGREFTLLANMKRHVLIHTNIRAYQCH  
LCYKSFVQKQTLKAHMIVHSDVKPFCKLCGKEFNRMHNLGMHMLHSDSKPFKCLYCPS  
KFTLKGNLTRHMKVKGVMERGLHSQGLGRGRIALAQTAGVLRSLQEPEFDLSQKRRAK  
VPVFQSDGESAQGSHCHEEEEEENDCYEVEPYSPGLAPQSQQQLCTPEDLSTKSEHAPEVLE  
EACKEEKEDASKGEWEKRSKGDLAGEGGERDCAGRDECLSLRAFQSTRRGPSFSDYLYF  
KHRDESLKELLERKMEKQAVLLGI

>sp|P17032|ZN37A\_HUMAN Zinc finger protein 37A OS=Homo sapiens GN=ZNF37A PE=2 SV=3

MITSQGSVSFRDVTVGFTQEEWQHLDPAQRTLYRDVMLENYSHLVSVGYCIPKPEVILKL  
EKGEEPWILEEKFPSQS HLELINTSRNYSIMKFNEFNKGKCFCEKHEI IHSEEPSEY  
NKNNGSFWLNEDLIWHQKIKNWEQSFEYNECGKAFPENSLFLVHKRGYTQKTC KYTEHG  
KTCDSFFITHQQTHPRENHYGNECGENIFEESILLEHQSVYPFSQKLNLTPIQRTHSIN  
NIIYNECGTFFSEKLVHLQQRTHTEKPYECHECGKTFQKSAHTRHQRTHTGKPYE  
CHECGKTFYKNSDLIKHQRIHTGERPYGCHECGKSFSEKSTLTQHQRTHTEKPYECHEC  
GKTFSEKSVLTVHQTHTEKPYECYACGKAFLRKSDLIKHQRIHTGEKPYECNECGKSF  
SEKSTLT KHLRTHTEKPYECIQCGKFFCYYSGFTEHLRRHTGEKPGCNECGKTFRQKS  
ALIVHQRTHIRQKPYGCNCGKSFVKS KLI AHHRTHTGEKPYECNVC GKS FYVKS KLT V  
HQRIHLGRNPINVVNEGNYSG

>sp|Q9H9D4|ZN408\_HUMAN Zinc finger protein 408 OS=Homo sapiens GN=ZNF408 PE=1 SV=1

MEEAEELLLEGKKALQLAREPRLGLDLGWNPSGEGCTQGLKDVPEPTRDILALKSLPRG  
LALGPSLAKEQRLGVWCVGDPLQPGLLWGPLEEESASKEKGEGVKPRQEENLSLGPWGDV  
CACEQSSGWTSLVQRGRLESEGNVAPVRISERLHLQVYQLVLPGSELLLPQPSSEGPSL  
TQPGLDKEAAVAVVTEVESAVQQEVASPGEDAAEPCIDPGSQSPSGIQAENMVSPGLKFP  
TQDRISKDSQPLGLLDGDVDEECPAQQAQMPPELQSN SATQQDPDGS GASFS SARGTQ  
PHGYLAKKLHSPSDQCPRAKTPEPGAQSGFPTLSRSPPGAGSSPKQGRRYRCGECGK  
AFLQLCHLKKHAFVHTGHKPF LCTECGKSYSS EESFKAHMLGHRGVRPFPCPQCDKAYGT  
QRDLKEHQVVHSGARPFACDQCGKAFARRPSRLRHKTHQVPAAPAPCPVCGRPLANQ  
GSLRNHMLHTGEKPF LCPHC GRAFRQRGNLRGHLRLHTGERPYRCPHCADAFQPLPELR  
RHLISHTGEAHLCPVCGKALRDPHTLRAHERLHSGERPFPQCGRAYTLATKLRRHLKS  
HLEDKPYRCPTCGMGYTLPQSLRRHQLSHRPEAPCSPPSVPSAASEPTVVLLQAEPQLLD  
THREEEVSPARDVVEVTISESQEKC FVVPPEPD AAPSLVLIHKDMGLGAWAEVVEVEMGT

>sp|Q9H8G1|ZN430\_HUMAN Zinc finger protein 430 OS=Homo sapiens GN=ZNF430 PE=1 SV=3

MENLKSGVYPLKEASGCPGADRNLVYSFYEKGPLTFRDVAIEFSLEEWQCLDTAQDLY  
RKVMLENYRNLVFLAGIAVSKPDLITCLEQGKEPWNMKRHAMVDQPPVTYSHFAQDLWPE  
QGIKDSFQEVILRRYKCGHEDLQRTGCKSVDECNLHKECYDELNQLTTTQSEIFQYD  
KYVNVFYKFSNPNIQKIRHTGKKPFCKKCDKSFCMLLHLTQHKRIHIRENSYQCEECGK  
VFNWFTLTRHRIHTGEKPYKCEQCGKAFKQSSTLTTHKI IHTGEKPYRCEECGKTFNR  
SSHLTTHKRIHTGEKPYRCEECGRAFNRSSHLTTHKI IHTGEKPYKCEECGKAFNQSSTL  
TTHKI IHAGEKPYKCEECGKAFYRFSYLT KHKI IHTGEKPYKCEECGKGFNWSSTLT KHK  
RIHTGEKPYKCEQCGKAFNESSNLTAHKI IHTGEKPYKCEECGKAFNRSPKLT AHKVIHS

GEKPYKCEECGAFNQFSNLTKHKITHIGDTSYKYLECDKAFSQSSTLTKHKVIHTGEKP  
YNCEEYGKAFNQSSNLIEQSNSYWRETLQM

>sp|094892|ZN432\_HUMAN Zinc finger protein 432 OS=Homo sapiens GN=ZNF432 PE=1 SV=1

MINAQELLTLEDVTEFTWEWQLLGPQKDLYRDMLEIYSNLLSMGYQVSKPDALSKL  
ERGEEPWTMEDERHSRICPENNEVDHLQDHLENQRMLKSVEQYHEHNAFGNTASQTKSL  
CLFRENHDTFELYIKTLKSNLSLVNQNKSCINNSTKFSGDGKSFLHGNYEELYSAAKFS  
VSTKANSTKSQVSKHQRTHEIEKNHVCSECGKAFVKKSQLTHERVHTGEKPYGCTLCAK  
VFSRKSRLNEHQRIHKREKSFICSECGKVFTMKSRLIEHQRTHTGEKPYICNECGKGFPG  
KRNLIVHQRNHTGEKSYICSECGKGFTGKSMLIIHQRTHTGEKPYICSECGKGFTTKHYV  
IIHQRTHTGEKPYICNECGKGFTMKSRMIEHQRTHTGEKPYICSECGKGFPKSNLIVHQ  
RNHTVEKSYLCSECGKGFTVKSMLIIHQRTHTGEKPYTCSECGKGFPKSNLIVHQRTHT  
GEKPYRCSECGKGFIVNSGLMLHQRTHTGEKPYICNECGKGFAFKSNLVVHQRTHTGEKP  
FMCSECGKGFTMKRYLIVHQQIHTEEKSCICSECGRGAFAKETELALHKQVHTGEKPYGCN  
ECGKGFTMKSRLIVHQRTHTGEKPFVCSSECRKAFSSKRNLIVHQRTHTNGNKP

>sp|Q7Z4V0|ZN438\_HUMAN Zinc finger protein 438 OS=Homo sapiens GN=ZNF438 PE=2 SV=1

MQNSVSVPKDEGESNIPSGTIQSRKGLQNKSQFRTIAPKIVPKVLTSRMLPCHSPSRSD  
QVNLGPSINSKLLGMSTQNYALMQVAGQEGTFSLVALPHVASAQPIQKPRMSLPENLKLP  
IPRYQPPRNSKASRKKPILIFPKSGCSKAPQTMCPQMSPSPPHPELLYKPSPFEEVP  
SLEQAPASISTAALTNGSDHGLRPPVTNTHGSLNPPATPASSTPEEPAKQDLTALSGKA  
HFVSKITSSKPSAVASEKFKEQVDLAKTMTNLSPTILGNAVQLISSVPKGKLPIPPYSRM  
KTMEVYKIKSDANIAGFSLPGPKADCDKIPSTTEGFNAATKVASRLPVPQVSQQSACESA  
FCPPTKLDLNNHKTNLNSGAARKRGRKRKVPDEILAFQGKRRKYIINKCRDGKERVKNDPQ  
EFRDQKGLTKKYRSIMPKPIMVIPTLASLASPTTLQSQMLGGLGQDVLLNNSLTPKYL  
CKQDNSSSPKSSVFRNGFSGIKKPWHRCHVCNHHFQFKQHLRDHMTHTNRRPYSCRIC  
RKSYVRPGSLSTHMKLHHGENRLKLMCEFCAKVFGHIRVYFGHLKEVHRVVISTEPAP  
SELQPGDIPKNRDMSVRGMESLERENKSNLEEDFLLNQADEVKLQIKCGRCQITAQSFA  
EIKFHLLDVHGEEIEGRLQEGTFPGSKGTQEELVQHASPDKRHPERKPEKVHSSSEES  
HACPRLLKRLHLHQNGVEMLENEGPQSGTNKPRETCQGPECPGLHTFLLWSHSGFNCLL  
CAEMLGRKEDLLHHWKHQHNCEDPSKLWAILNTVSNQGVIELSSEAEK

>sp|Q96JM2|ZN462\_HUMAN Zinc finger protein 462 OS=Homo sapiens GN=ZNF462 PE=1 SV=3

MEVLQCDGCDFRAPSYEDLKAHIQDVHTAFLQPTDVAEDNVNELRCGSVNASNQTEVEFS  
SIKDEFAIAEDLSGQNATSLGTGGYYGHSPGYGQHIAANPKPTNKKFQCKFCVRYFRSK  
NLLIEHTRKVHGAQAEGSSSGPPVPGSLNYNIMHEGFGKVFSCQFCTYKSPRRARIKH  
QKMYHKNNLKETTAPPPAPAPMPDPVPPVSLQDPCKELPAEVVERSILESMVKPLTKSR  
GNFCEWCYSYQTPRRERWCDHMMKKHRSMVKILSSLRQQQEGTNLPDVPNKSAPSPTSNS  
TYLTMNAASREIPNTTVSNFRGSMGNSIMRPNSSASKFSPMSYPQMKPKSPHNSGLVNL  
ERSRYGMTDMTNSSADLETNSMLNDSSSDEELNEIDSENGLSAMDHQTSGLSAEQLMGSD  
GNKLLKETGIPFRRFMNRFQCPFCPFLTMHRRSISRHIENIHLSGKTAVYKCDECPFTCK  
SSLKLGAAHKQCHTGTSDWDVANSQSESISSSLNEGTVSYESSSINGRKSVMGLDPLQQQ  
QPPQPPPPPPPPPSQPQLQQPQPQLQPPHQVPPQPQTQPPPTQQPQPPTQAAPLHPY  
KCTMCNYSTTTKGLRVHQHKSFCNLPKFEGQPSSLPLENETDHPSSSNTVKKSQ  
SILGLSSKNFVAKSRKLANDFPLDLSPVKKRTRIDEIASNLQSKINQTKQEDAVINV  
EDDEEEEDNEVEIEVELDREEEPTPIIEVPTSFSAAQIWWRDTSQKEPNFRNITHD  
YNATNGAEIELTSEDEEDYYGSSTNLKDHQVSNTALLNTQTPITYGTEHNSENTDFGDSG



RLYYCKHCDFNKKSARSVSTHYQRMHPYIKFSFRYILDPNDHSAVYRCLECYIDYTNFED  
LQQHYGEHHPEAMNVLNFDHSDLIYRCRFCSTSPNVRSLMPHYQRMHPTVKINNAMIFS  
SYVVEQQEGLNTESQTLREILNSAPKNMATSTPVARGGGLPATFNKNTPKTFTPECENQK  
DPLVNTVVVYDCVCSFASPNMHSVLVHYQKKHPEEKASYFRIQKTMRMVSVDRGSALSQ  
LSFEVGAPMSPKMSNMGSPPPPQPPPPDLSTELYYCKHCSYSNRSVVGVLVHYQKRHPEI  
KVTAKYIRQAPPTAAMMRGVEGPQGSPPAPIQQLNRSSESDGPPVENEMFFCQHCDY  
GNRTVKGVLIHYQKKHRDFKANADVIRQHTATIRSLCDRNQKKPASCVLVSPSNLERDKT  
KLRLKCRQCSYTSFYALRKHIKKDHPALKATVTSIMRWAFLDGLIEAGYHCEWCIYS  
HTEPNGLLHHYQRRHPEHYVDYTYMATKLWAGPDPSPPSLTMPAEAKTYRCRDCVFEAVS  
IWDITNHYQAFHPWAMNGDESVLDDIIEKDAVEKPILSSEELAGPVNCENSIPTPFPEQ  
EAECPEDARLSPEKSLQLASANPAISSTPYQCTVCQSEYNNLHGLLTHYGKKHPPGMKVKA  
ADFAQDIDINPGAVYKCRHCPYINTRIHGVLTHYQKRHPSIKVTAEDFVHDVEQSADISQ  
NDVEETSRIKQGYGAYRCKLCPYTHGTLEKLIHYEKYHNQPEFDVFSQSPKLPVPLE  
PEMTTEVSPSQVSIETEEVGEEPVSTSHFSTSHLVSHTVFRCQLCKYFCSTRKGIARHYR  
IKHNNVRAQPEGKNNLFKCALCAYTNPIRKGLAAHYQKRHDIDAYYTHCLAASRTISDKP  
NKVIIPSPPKDDSPQLSEELRRAVEKKKCSLCSFSQSFSSKGIIVSHYMKRHPGVFPKKQHA  
SKLGGYFTAVYADEHEKPTLMEEEEERGNFEKAEVEGEAQEIEWLPFRICKCFKLSFSTAE  
LLCMHYTDHHSRDLKRDFIILGNPRLQNSTYQCKHCDSKLQSTAELTSHLNIHNEEFQK  
RAKRQERRKQLLSKQKYADGAFADFKQERPFGHLEEVPKIKERKVVGYKCKFCVEVHPTL  
RAICNHLRKHVQYGNPVAVSAAVKGLRSHERSHLALAMFTREDKYSCQYCSFVSAFRNL  
DRHMQTHHGHKPPFRCKLCSFKSSYNSRLKTHILKAHAGEHAYKCSWCSFSTMTISQLKE  
HSLKVHGKALTLP RPRIVSLLSSHSHSSQKATPAEEVEDSNDSSYSEPPDVQQQLNHYQ  
SAALARNNSRVSPVPLSGAAAGTEQKTEAVLHCEFCFESSGYIQSIRRHYRDKHGGKKLF  
KCKDCSFYTGFKSAFTMHVEAGHSAVPEEGPKDLRCPLCLYHTKYKRNIDHIVLHREER  
VVPVIEVCRSKLSKYLQGVVFRCDKCTFTCSSDESLQQHIEKHNELKPYKCQLCYETKHT  
EELDShLRDEHKVSRNFELVGRVNDQLEQMKEKMESSSSDDEDKEEEMNSKAEDRELMR  
FSDHGAALNTEKRFPCFECGRAFSQGSEWERHVLRHGMALNDTKQVSREEIHPKEIMENS  
VKMPSIEEKEDDEAIGIDFSLKNETVAICVVTADKSLENAEAKKE

>sp|Q9ULM2|Zn490\_HUMAN Zinc finger protein 490 OS=Homo sapiens GN=ZNF490 PE=1 SV=2

MRRNSSLFSQMERPLEEQVQSKWSSSQGRTGTGGSDVLQMQNSEHHGQSIIKTQTDISLE  
DVAVNFTLEEWALLDPGQRNIYRDMRATFKNLACIGEKWKDQDIEDEHKNQGRNLRSPM  
VEALCENKEDCPCGKSTSQIPDLNTNLETPTGLKPCDCSVCGEVFMHQVSLNRHMRSHTE  
QKPNECHEYGEKPHKCKEKGKTFTRSSSIRTHEIRHTGEKPYECKEKGKAFALFSFRNH  
IRIHTGETPYECKEKGKAFRYLTALRRHEKNHTGEKPYKCKQCGKAFIYYQPFLTHERTH  
TGEKPYECKQCGKAFSCPTYLRSHEKTHTGEKPFVCRECGRAFFSHSSLRKHVKTHTGTVQ  
PYTCKKCGEAFKSSSSCEVHERTHFGEKPYECKQCGKAFNSSSYLQLHERVHTGEKTYEC  
KEGKAFLYSTHFRIHERTHTREKPYECKQCGRVFIYFSLRRHERSHTGVKPCHECKQCG  
KAFTCLNSLKVHKRIHTGERPFQCRQCGKAFSYSKSLHVHERTHSRQKP

>sp|Q8TBZ5|Zn502\_HUMAN Zinc finger protein 502 OS=Homo sapiens GN=ZNF502 PE=1 SV=1

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CEGMKENS PREIAESCLFQEGGFGRITFIHKEAPPEIISQGYNFEKSLLLTSSLVTRLRV  
STESLHQWETSNIQTNDISDQSKCPTLCTQKKSWKNECGKTFQTSSSLTQHQRHTHTGE  
RPYTCEECKGAFSRSSFLVQHQRHTGVKPYGCEQCGKTFRCRSFLTQHQRHTGEKPYK  
CNECGNSFRNHSHLTHEQRHTGEKPYKCNRCGKAFNQNTHLIHHQRHTGEKPYICSEC

GSSFRKHSNLTQHQRHTGEKPHKCDECGKTFQTKANLSQHQRHSGEKPYKCKEKGKAF  
CQSPSLIKHQRHTGEKPYKCKEKGKAFQTSTPLTKHQRHTGERPYKCEGKAFIQSI  
CLIRHQRSHTGEKPYKCEGKGFNQNTCLTQHMRHTGEKPYKCKEKGKAFHSSSLTE  
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HSGD

>sp|Q96ME7|ZN512\_HUMAN Zinc finger protein 512 OS=Homo sapiens GN=ZNF512 PE=1 SV=2  
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CEPVSDFPASFRKSTYWMMRRRIKPAATSHVEGSGVSAKGRKPRQEEDEDYREFPQKK  
HKLYGRKQRPKTQPNPKSQARRIRKEPPVYAAGSLEEQWYLEIVDKGSVSCPTCQAVGRK  
TIEGLKKHMENCKQEMFTCHHCGKQLRSLAGMKYHVMANHNSLPILKAGDEIDEPSENER  
LRTVLKRLGKLRMCRESSSFTSIMGYLYHVRKCGKGAEELEKMTLKCHHCGKPYRSKA  
GLAYHLRSEHGPIISFFPESGQPECLKEMNLESKSGGRVQRRSAKIAVYHLQELASAEK  
EWPKRKVLQDLVPDDRKLKYTRPLTFSEQEVLHKWKTDIKKYHRIQCPNQGCEAVYSSV  
SGLKAHLGSCITLGNFVAGKYKCLLCQKEFVSESGVKYHINSVHAEDWFVVPNTTTSFEK  
LMIKQRQQEEEKRRQQHRSRRSLRRRQQPGIELPETELSLRVGKDQRRNNEELVVSASC  
KEPEQEPVPAQFQKVPPKTNHKGGRK

>sp|Q86UE3|ZN546\_HUMAN Zinc finger protein 546 OS=Homo sapiens GN=ZNF546 PE=2 SV=2  
MQVDPPLHGPPNDFLIFQIIPLHSLSIMPRFLWILCFSMEEQEGELTSSCGSKTMANVSL  
AFRDVSIQLSQEEWECLDAVQRDLYKDVMLNYSNLVSLGYTIPKPDVITLLEQEKEPWI  
VMREGTRNWFDTLEYKYITKNLLSEKNVCKIYLSQLQTGEKSKNTIHEDTIFRNLQCKH  
EFERQERHQMGCVSQMLIQKQISHPLHPKIHAREKSYECKEKRKAFRQQSYLIQHLRIHT  
GERPYKCEGKAFRCVGLRVHHTIHAGERPYECKEKGKAFRLHYHLTEHQRIHSGVKP  
YECKEKGKAFSRVRLRVHQTIHAGERPYECKEKGKAFRLHYQLTEHQRIHTGERPYECK  
VCGKTRFRVQRHISQHQIHTGVKPYKCEGKAFSHGSYLVQHQIHTGEKPYECKEKGK  
SFSFHAELARHRIHTGEKPYECRECGKAFRLQTELTRHHRHTHTGEKPYECKEKGKAFIC  
GYQLTLHLRTHTEIPYECKEKGKTFSSRYHLTQHYRIHTGEKPYICNECGKAFRLQGEL  
TRHHRHTHTCEKPYECKEKGKAFIHSNQFISHQRIHTSESTYICKEKGKIFSRRYNLQHF  
KIHTGEKPYICNECGKAFRFQTELQHHRIHTGEKPYKCTEKGKAFIRSTHLTQHHRIHT  
GEKPYECTEKGKTFSSRYHLTQHHRGHTGEKPYICNECGNAFICSYRLTLHQRIHTGELP  
YECKEKGKTFSSRYHLTQHFRHTGEKPYSCKEGNAFRLQAELTRHHIVHTGEKPYCK  
ECKGAFSVNSELTRHRIHTGEKPYQCKEKGKAFIRSDQLTLHQRNHISEEVLCIM

>sp|Q96C28|ZN707\_HUMAN Zinc finger protein 707 OS=Homo sapiens GN=ZNF707 PE=1 SV=2  
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EQWEEPWVEDRERPEFQAVQGRPRPGARKSADPKRCPDHPAWAHKKTHVRERAREGSSF  
RKGFRDLTDDGQLPRAAPERTDAKPTAFPCQVLTQRCGRPRGRERRKQRAVELSFICGT  
CGKALSCHSRLLAHQTVHTGTAFECPECGQTFRWASNLQRHQKNHTREKPFCEACGQA  
FSLKDLRAQHRKVHTEHRPYSCGDCGKAFKQKSNLLRHQLVHTGERPFYCADCGKAFRTK  
ENLSHHQRVHSGEKPYPYCAECGKSFRWPKGFSIHRRLHLTKRFYECGHCCKGFRHLGFFT  
RHQRTHRHGEV

>sp|Q6ZNA1|ZN836\_HUMAN Zinc finger protein 836 OS=Homo sapiens GN=ZNF836 PE=2 SV=2  
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IGNSNTGEKQTVTLRHECYDVNFYLRREIQKNLQDLEFQWKDGEINYKEVPMTYKNNL  
NGKRGQHSQEDVENKCIENQLTSLFQSRLTELQKFQTEGKIYECNQSEKTVNNSSLVSPL  
QRILPSVQTNISKKYENEFLLSLPTQLEKTHIREKPYMCKGCGKAFRVSSSLINHQMVF

TTEKPYKCNECGKAFHRGSLTIIHQIVHTRGKPYQCGVCGKIFRQNSDLVNHRRSHTGEK  
PYKCNECGKSFSQSYNLAIHQRIHTGEKPYKCNECGKTFKQGSCLTTHQIIHTGEKPYQC  
DICGKVFRQNSNLVNHQRIHTGEKPYKCNICGSFSQSSNLATHQTVHSGNKPYKCDECG  
KTFKRSSSLTTHQIIHTGEKPYTCDVCDKVFSQLARHQRSHTGEKPYKCNECGKVFS  
QTSHLVGHRRIHTGEKPYKCDKCGKAFKQGSLLTRHKIIHTREKRYQCGECGVFSENSC  
LVRHLRIHTGEQPYKCNVCGKVFNYSGNLSIHKRIHTGEKPFQNECGTVFRNYSCLARH  
LRIHTGQKPYKCNVCGKVFNDSGNLSNHKRIHTGEKPFQNECGKVFSYYSCLARHRKIH  
TGEKPYKCNDGKAYTQRSSLTKHLIIHTGEKPYNCNEFGGAFIQSSKLARYHRNPTGEK  
PHKCSHCGRFTSHITGLTYHQRRHTGEMPYKCIECGQVFNSTSNLARHRRRIHTGEKPYK  
NECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILVNHQKMHTGDKPYKCNECG  
KAFIERSKLVYHQRNHTGEKPYKCIECGKAFRFSCLNKHQMIHSGEKPYKCNECGKSF  
SRSGLTQKHQTKHTAESLKTGFNVEKPLDVLTLTSGFK

>sp|Q96IR2|ZN845\_HUMAN Zinc finger protein 845 OS=Homo sapiens GN=ZNF845 PE=2 SV=3

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TAQGNTEVIHTGTLQRHERHHIGDFCFQEMEKDIHDFEFQWKEDERN SHEAPMTEIKQLT  
GSTNRHDQRHAGNKPIKDQLGSSFHSHLPELHMFQTEGKIGNQVEKSINSASLVSTSQRI  
SCRPKTHISKNYGNFLNSSLLTQKQEVHMRKESFQCNESGKAFNYSSVLRKHQIIHLGA  
KQYKCDVCGKVFNQRYLACHRRCHTGKKPYKCNDGKTFSQLTLTCHHRLHTGEKHYK  
CSECGKTFSRNSALVIHKAHTGEKSYKCNECGKTFQSQTSYLVYHRRLHTGEKPYKCEEC  
DKAFSFKSNLERHRKIHTGEKPYKCNECSRTFSRKSSLTRHRRLHTGEKPYKCNDGKTF  
SQMSSLVYHRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFQS  
SLVYHRRLHTGEKPYKCEECDEAFSFKSNLERHRIHTGEKLYKCNECGKTFSRKSSLTR  
HCRLHTGEKPYQNECGKAFRGQSALIIYQAIHGIGKLYKCNDCHQVFSNATTIANHWRI  
HNEERSYKCNRCGKFFRHSYLAHVWRTHSGEKPYKCEECDEAFSFKSNLQRHRRRIHTGE  
KPYRCNECGKTFSRKSYLTCHRRLHTGEKPYKCNECGKTFGRNSALIIHKAHTGEKPYK  
CNECGKAFSQSSLTCHRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYKCKVC  
DKAFGRDShLAQHTRIHTGEKPYKCNECGKNFRHNSALVIHKAHSGEKPYKCNECGKTF  
RHNSALEIHKAHTGEKPYKSECGKVFNRKANLSRHHRLHTGEKPYKCNKCGKVFNQQA  
HLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKTHTGEKPYKCNECGKVFNRAKLAR  
HHRIHTGKKH

>sp|Q6ZMS4|ZN852\_HUMAN Zinc finger protein 852 OS=Homo sapiens GN=ZNF852 PE=1 SV=4

MVRPQDTVAYEDLSEDTQKKWKGLALSQRALHWNMLENDRSMASLGRNMMESELTPK  
QEIFKGSESSNSTSGGLFGVPPGGTETGDVCEDTFKELEGQPSNEEGSRLESDFLEIIDE  
DKKKSTKDRYEEYKEVEEHPPLSSSPVEHEGVLGKQKSYRCECGKAFYWSSHLIGHRRI  
HTGEKPYECNECGKTFRQTSQILVHLRTHTEKPYECSECGKAYRHSSHLIQHQRLHNGE  
KPYKCNECAKAFNQSSKLFQDQRTHTGEKPYECKECAAFAFSRKNLVRHQFLHTGKKPYK  
CNECGRAFCNLRNLDHQRTHTEKPYKCNECGKAFSRKCLIRHQSLHTGEKPYKSEC  
GKAFNQISQLVEHERIHTGEKPFKCECGKAFGLSKCLIRHQRLHTSEKPYKCNECGKSF  
NQNSYLIHQRIHTGEKPYECNECGKVFSYNSSLMVHQRTHTGEKPYKCNSCGKAFSDSS  
QLTVHQRVHTGEKNLMNVLSVGKPLVSVPLLTITSELMLESPQVWLGHLLKAWFSETDS  
KDL

>sp|O60290|ZN862\_HUMAN Zinc finger protein 862 OS=Homo sapiens GN=ZNF862 PE=2 SV=2

MEPRESGKAPVTFDDITVYLLQEEWVLLSQQQKELCGSNKLVAPLGPTVANPELFRKFGR  
GPEPWLGSVQGQSRSLLEHHPGKKQMGYMGEMEVQGPTRSGQSLPPQKKAYLSHLSTGSG

HIEGDWAGNRNRLKPRSIQSWFVQFPWLIMNEEQTALFCSACREYPSIRDKRSRLIEG  
YTGPFKVETLKYHAKSKAHMFCVNALAARDPIWAARFRSIRDPPGDVLASPEPLFTADCP  
IFYPPGPLGGFDSMAELLPSSRAELEDPGGDGAIPAMYLDCISDLRQKEITDGIHSSSDI  
NILYNDAVESCIQDPSAEGLEEVVVFEELPVVFEDVAVYFTREEWGMLDKRQKELYRD  
VMRMNYELLASLGPAAAKPDLSKLERRAAPWIKDPNGPKWGKGRPPGNKKMVAVREADT  
QASAADSALLPGSPVEARASCCSSSICEEGDGPRIKRTYRPSIQRSWFGQFPWLVIDP  
KETKLFCACIERPNLHDKSSRLVRGYTGPFKVETLKYHEVSKAHLRCVNTVEIKEDTPH  
TALVPEISSDLMANMEHFFNAAYSIAHRSRPLNDFEKILQLLQSTGTVILGKYRNRTACT  
QFIKYISETLKREILEDVRNSPCVSVLLDSSTDASEQACVGIIYIRYFKQMEVKESYITLA  
PLYSETADGYFETIVSALDELIPFRKPGWVVLGTDGSAMLSRGGLVEKFQEVIPQLL  
PVHCVAHRLHLAVDACGSIDLVKKCDRHIRTVMFKFYQSSNKRLNELQEGAAPLEQEIIR  
LKDLNAVRRVWASRRRTLHALLVSWPALARHLQRVAEAGGQIGHRAKGLKLMRGFHFVKF  
CHFLDLFLSIYRPLSEVCQKEIVLITEVNATLGRAYVALESLRHQAGPKEEEFNASFQDG  
RLHGICLDKLEVAEQRFQADRERTVLTGIEYLQQRFDADRPPQLKNMEVFDTMAWPSGIE  
LASFGNDDILNLARYFECSLPTGYSEEALLEEWLGLKTLAQHLPFSMLCKNALAQHCRFP  
LLSKLMAVVVCVPISTSCCERGFKAMNRIRTDERTKLSNEVLNMLMMTAVNGVAVTEYDP  
QPAIQHWYLTSSGRRFSSHVYTCAQVPARSPASARLRKEEMGALYVEEPRTQKPPILPSRE  
AAEVLKDCIMEPPERLLYPHTSQEAPGMS

>sp|B4DU55|ZN879\_HUMAN Zinc finger protein 879 OS=Homo sapiens GN=ZNF879 PE=2 SV=2

MARRLLPAHVQESVTFRDVAVFFSQDEWLHLDSAQRALYREVMLENYSILVSLGILFSKP  
KVISQLEQGEPDPMVESGVPQGAHLGWESLFGTIVSKEENQEVMMKKLIIDGTFDFKLEKT  
YINEDKLEKQQGKKNRLFSKVLVTIKKVYMKERSFKGVEFGKNLGLKSSLIRKPRIVSRG  
RRPRSQQYSVLQKLGVTNRKCYKCNICGKIFLHSSSLSKHQRIHTGEKLYKCKEKRKA  
FSQSSSLTQHRLRVHTGEKPYICSECGKAFSFTTSLIGHQRMHTGERPYKCKEKGKTFKGS  
SSLNHHQRIHTGEKPYKNECGRAFSQCSSLIQHHRHTGEKPYECTQCGKAFTSISRLS  
RHHRIHTGEKPFHCNECGKVFSYHSALIHHQRIHTGEKPYACKECKGAFSQSSALIQHQR  
IHTGEKPYKNECGKAFSWISRLNIHHRHTGEKPYNCKECKGAFSSHSGVNTHRKIHTG  
EKPYKNDCEKAFNQSSALIQHQRHTGEKPYNCKVCGKAFRQSSSLMTHMRIHTGEKPY  
KCKECKGAFSQSSSLTNHQRTHN

>sp|A8MT65|ZN891\_HUMAN Zinc finger protein 891 OS=Homo sapiens GN=ZNF891 PE=2 SV=2

MAVMDLSSPWALTKQDSACFHLRNAEEERMIIVFLTTWLQEPMTFKDVAVEFTQEEWMML  
DSAQRSLYRDVMLENYRNLTSVEYQLYRLTVISPLDQEEIRNMKKRIPQAICPDQKIQPK  
TKESTVQKILWEEPSNAVKMIKLTMHNWSSTLREDWECHKIRKQHKIPGGHWRQMIYAPK  
KTVPQELFRDYHELEENSKLGLSIFQSIFTSKHCQKCYSEIGCLKHNSIINNYVKNSI  
SEKLYESHECDDTLWHFQRNQTVQKEYTYSKHGMHFTNMFVPVNNLHMAQNACECNKDE  
TLCHQSSLKKQGQTHTEKKHECNQCGKAFKRISNLTLYKKSHEGKQYECKECKGVFNDS  
STLRRHVRTHTGEKPYECNQCGKAFSQKTSKLAHMRHTHTGEKPYECNQCGKSFGTSSYLI  
VHKRIHTGEKLYECSECGKAFNTSSHLKVHKKIHTGENVYECSDCGKVFSGVSSLRMHIR  
THTGEKPYECKECKRAFSVSSSLRRHVRIHTGEKPYECIQCGKAFSQSSSLIHKRIHTE  
RETL

>sp|P17021|ZNF17\_HUMAN Zinc finger protein 17 OS=Homo sapiens GN=ZNF17 PE=2 SV=3

MNLTEDYMFEDVAIHFSQEEWGILNDVQRHLHSDVMLENFALLSSVGCWHGAKDEEAPS  
KQCVSVGSVQVTTLPALSTQKAQPCETCSSLLKDILHLAEHDGTHPKRTAKLYLHQKEH  
LREKLTRSDEGRPSFVNDVHLAKRNLTMCQGGKDFTGDSDLQQQALHSGWKPHRDTHGV

EAFQSGQNNYSCTQCGKDFCHQHTLFEHQKIHTTEERPYPECSECGKLFYNSDLIKHQRNH  
TGERPYKCSECGKAFSLKYNVQHQKIHTGERPYECSECGKAFLRKSHLLQHQRITRPR  
PYVCSECGKAFLTQAHLVGHQKIHTGERPYGCNECGKYFMYSSALIRHQKVHTGERPFYC  
CECGKFFMDSTLIIHQRVHTGEKPYECNECGKFFRYRSTLIRHQKVHTGEKPYECSECG  
KFFMDTSTLIIHQRVHTGEKPYECNCGKFFRYCFTLNRHQRVHSGERPYPECSECGKFFV  
DSTLKS HQRVHTGERPFEC SICGSFRCRSTLDT HQRIHTGERPYECSECGKFFRHNSN  
HIRHRRNHFGERSFECTECGRVFSQNSHLIRHQKVHTRERTYKCSKCGKFFMDSSTLISH  
ERVHTGEKPYECSECGKVFRYNSSLIKHRRITGERPYQCSECGRVFNQNSHLIQHQKVH  
TR

>sp|P17027|ZNF23\_HUMAN Zinc finger protein 23 OS=Homo sapiens GN=ZNF23 PE=1 SV=3

MLENYGNVASLGFPLLKPAVISQLEGGSELGGSSPLAAGTGLQGLQTDIQTNDLTKEMY  
EGKENVSFELQRDFSQETDFSEASLLEKQQEVHSAGNIKKEKSNTIDGTVKDETSPEEC  
FFSQSSNSYQCHTITGEQPSGCTGLGKSISFDTKLVKHEIINSEERPFCCEELVEPFRCD  
SQLIQHQENNTTEKPYQCSECGKAFSINEKLIWHQRLHSGEKPFKCECGKSFSYSSHYI  
THQTIHSGEKPYQCKMCGKAFSVNGSLSRHQRIHTGEKPYQCKECCNGFSCSSAYITHQR  
VHTGEKPYECNDCGAFNVNAKLIHQHQRIHTGEKPYECNECGKGFRCSQLRQHQSIHTG  
EKPYQCKECCGKFNNNTKLIHQHQRIHTGEKPYECTECGKAFSVKGLIQHQRIHTGEKPY  
ECNECGKAFRCNSQFRQHLRIHTGEKPYECNECGKAFSVNGKLMRHQRIHTGEKPFECNE  
CGRCFTSKRNLLDHHRIHTGEKPYQCKECCGKAFSINAKLTRHQRIHTGEKPFKMECEKA  
FSCSSNYIVHQRIHTGEKPFQCKECCGKAHVNAHLIRHQRSHTGEKPFRCVECGKGFSS  
SDYIIHQTVHTWKKPYMCSVCGKAFRFSFQLSQHQSVHSEGKS

>sp|P17039|ZNF30\_HUMAN Zinc finger protein 30 OS=Homo sapiens GN=ZNF30 PE=2 SV=5

MAHKYVGLQYHGSVTFEDVAIAFSQQEWESLDSSQRGLYRDVMLENYRNLVSMGHSRSKP  
HVIALLEQWKEPEVTVRKDGRRWCTDLQLEDDTIGCKEMPTSENCPSFALHQQISRQKPR  
ECQEYGKTLCDQSKPVQHERIHSSEKPNRCKECCGKNFSNGHQLTIHQRLHVGEKPYKYEK  
CGKAFISGSAFVKHGRIHTGEKPLKCKQCGKTISGSYQLTVHKS IHTGKKPYECGECGKA  
FLVYGKLTRHQSTHTGEKPFGECECGKAFSTFSYLVQHQRITSEKPYECKECCGKAFSTS  
SPLAKHQRIHTGEKPYECKECCGKSFTVYGQLTRHQSIHTGEKPFECKECCGKAFLSSFLH  
AHQRIHAEIKPYGCKECCGRTFSRASYLVQHGRLHTGEKPYECKECCGKAFSTGSYLVQHQR  
IHTGEKPYECKECCGKAISRHQLTVHQRVHTGEKPYECKECCGKAFRVHVHLTQHRKIHTD  
VKPYECKECCGKTFSRASYLVQHSRIHTGKKPYECKECCGKAFFSGSYLVQHQRITGEKPY  
ECNCKGAFTVYGQLIGHQSVHTGEKPFECKECCGKAFLNSFLTEHQRVHTGEKPFKCKK  
CGKTFRYSSALKVHLRKHMSVIP

>sp|P17036|ZNF3\_HUMAN Zinc finger protein 3 OS=Homo sapiens GN=ZNF3 PE=1 SV=3

METQADLVSQEPQALLDSALPSKVPAFSDKDSLGDMLAAALLKAKSQELVTFEDVAVYF  
IRKEWKRLPAQRDLYRDVMLENYGNVFSLDRETRTENDQEISEDTRSHGVLLGRFQKDI  
SQGLKFKEAYEREVSLKRPLGNSPGERLNRKMPDFGQVTVEEKLTPRGERSEKYNDFGNS  
FTVNSNLIHQRLPVGDRPHKCECSKSFNRTSDLIHQHQRIHTGEKPYECNECGKAFSQS  
SHLIHQHQRIHTGEKPYECSDCGKTFSCSSALILHRRITHTGEKPYECNECGKTFSSSTLT  
HHQRIHTGEKPYACNECGKAFSRSSSTLIHHQRIHTGEKPYECNECGKAFSSSHLYQHQR  
IHTGEKPYECMECGKFTYSSGLIQHQRIHTGENPYECSECGKAFFRYSSALVRHQRIHTG  
EKPLNGIGMSKSSLRVTTELNIREST

>sp|P15621|ZNF44\_HUMAN Zinc finger protein 44 OS=Homo sapiens GN=ZNF44 PE=2 SV=3

MALCYGTFWGYPKMLEAANLMEGLVDIGPWVTLPRGQPEVLEWGLPKDQDSVAFEDVAVN

FTHEEWALLGPSQKNLYRDMRETIRNLNCIGMKWENQNIDDDQHQLRRNPRCDVVERFG  
KSKDGSQCGETLSQIRNSIVNKNTPARVDACSSVNGEVIMGHSSLNCYIRVDTGHKHRE  
CHEYAEKSYTHKQCGKGLSYRHSFQTCERPHTGKKPYDCKECKGTFSSPGNLRRHMVVKG  
GDGPYKCELCGAFFWPSLLRMHERHTHTGEKPYECKQCSKAFFVYSSYL RHEKIHTGEKP  
YECKQCSKAFFDYSSYL RHERHTHTGEKPYKCKQCGKAFSVSGSLRVHERIHTGEKPYTCK  
QCGKAFCHLGSFQRHMIMHSGDGP HKCKICGKGDFPGSARIHEGHTHTLEKPYECKQCGK  
LLSHRSSFRRHMAHTGDGPHKCTVCGKAFFDPSV FQRHERHTHTGEKPYECKQCGKAFFRT  
SSSLRKHETHTHTGEKPYKCKCGKAFFDLFSFQSHETTHSEEPYECKECKGAFFSSFKYFC  
RHERTHSEEKSYECQICGAFFSRFSYLKTHERTHTAEKPYECKQCRKAFFWPSFLLRHER  
THTGERPYECKHCGKAFFSRSSFCREHERHTHTGEKPYECKECKGAFFSSLSFNHRK RTHWK  
DIL

>sp|Q15929|ZNF56\_HUMAN Putative zinc finger protein 56 OS=Homo sapiens GN=ZNF56 PE=5 SV=2  
MGPLQFRDVAIEFSLEEWHCLDTAQWNL YRDVMLENYRHLVFLVCGKAFFSSSNLTTHKK  
IHTGEKPYRCEECKGAFFKRSSHLTVHKIVHTGEKSYKCEECKGAFFKHPSHVTAHKKIHTG  
GKPYKCEECKGDFKYTSTLIAHKRIHTGEKPYKCEECKGDF

>sp|Q15940|ZNF67\_HUMAN Putative zinc finger protein 726P1 OS=Homo sapiens GN=ZNF726P1  
PE=5 SV=2  
MLSHKTQH KSIYTREKSYKCKKCGKTFNWSSILTNNKKIHTEQKPYKCEECKGAFFKQHST  
LTTHKII CAEEKLYRCEECKGAFFCQPSTLTRYKRMHRRKKLYKCEECKGAFTQFSTLT KH  
KRIHTRGKHYKCEESGAFFIWSSGLTEHRRVHTRQKPYKCEECKGALIQFSTLTRHKRIH  
TGEKPNKSMWQTF

>sp|Q9NQZ8|ZNF71\_HUMAN Endothelial zinc finger protein induced by tumor necrosis factor  
alpha OS=Homo sapiens GN=ZNF71 PE=2 SV=1  
MKELDPKNDISEDKLSVVGEATGGPTRNGARGPGSEGVWEPGSWPERPRGDAGAEWEPLG  
IPQGNKLLGGSV PACHELKAFANQGCVLVPPRLDDPTEKGACPPVRRGKNFSSTS DLSKP  
PMPCEEK KTYDCSECKGAFFSRSSSLIKHQRIHTGEKPFECDCGKHFIERSSLTIHQRVH  
TGEKPYACGDCGAFFSQRMNLT VHQRHTHTGEKPYVCDVCGKAFFRTSSLTQHERIHTGEK  
PYACGDCGAFFSQNMHLIVHQRHTHTGEKPYVCECGRAFFSQNMHLTEHQRHTHTGEKPYAC  
KECKGAFFNKSSSLTLHQRNHTGEKPYVCECGKAFFSQSSYL IQHQRFHIGVKPFECSECG  
KAFFSKNSSLTQHQRHTHTGEKPYECYICKKHFTGRSSSLIVHQIVHTGEKPYVCECGKAFF  
QSAYLIEHQRIHTGEKPYRCGQCGKSF IKNSSLTVHQRHTHTGEKPYRCGECGKTF SRNTN  
LTRHLRIHT

>sp|P51508|ZNF81\_HUMAN Zinc finger protein 81 OS=Homo sapiens GN=ZNF81 PE=1 SV=3  
MPANEDAPQPGEHGSACEVSVSFEDVTVD FSREEWQQLDSTQRRLYQDVMLENYSHLLSV  
GFEVPKPEVIFKLEQGEGPWTL EGEAPHQSCSDGKFGIKPSQRRISGKSTFHSEMEGEDT  
RDDSLSYILEELWQDAEQIKRCQEKHNKLLSRTTFLNKKILNTEWDY EYKDFGKFVHPSP  
NLILSQKRPHKRDSFGKSFKHNLDLHIHNKSNAAKNLDKTI GHGQVFTQNSSSYSHHENTH  
TGVKFCERNQCGKVL SLKHSLSQNVKFP IGEKANTCTEFGKIFTQRSHFFAPQKIHTVEK  
PHELSKCVNVFTQKPLLSIYLRVHRDEKLYICTKCGKAFFIQNSELIMHEKTH TREKPYKC  
NECGKSFFQVSSLLRHQTTHTGEKLFECSECGGFSLSALNIHQKIHTGERHHKCECG  
KAFTQKSTLRMHQRHTGERSYICTCGQAFFIQKAHLIAHQRIHTGEKPYECSDCGKSFP  
SKSQLQMHKRIHTGEKPYICTECGAFTNRSNLNTHQKSHTGEKSYICAECGAFTDRSN  
FNKHQTIHTGEKPYVCADCGRAFIQKSELITHQRHTTEKPYKCPDCEKSFSKKPHLKVH  
QRIHTGEKPYICAECGAFTDRSNFNKHQTIHTGDKPYKSCDCGKGFTQKSVLSMHRNIH

T

>sp|P17098|ZNF8\_HUMAN Zinc finger protein 8 OS=Homo sapiens GN=ZNF8 PE=1 SV=2

MDPEDEGVAGVMSVGPPAARLQEPVTRDVAVDFTQEEWGQLDPTQRILYRDVMLETFGH  
LLSIGPELPKPEVISQLEQGTELWVAERGTTQGCHPAWEPRSESQASRKEEGLPEEEPSH  
VTGREGFPTDAPYPTTLGKDRECQSSSLALKEQNNLKQLEFGLKEAPVQDQGYKTLRLRE  
NCVLSSSPNPFPEISRGEYLYTDSQITDSEHNSSLVSQQTGSPGKQPGENS DCHRDSSQ  
AIPITELTKSQVQDKPYKCTDCGKSFNHNHLTVHKRIHTGERPYMCKEKGAFSQNSSL  
VQHERIHTGDKPKYKCAECGKSFCHSTHLTVHRRHTGEKPYECQDCGRAFNQNSSLGRHK  
RTHTGEPYTCVCGKSFRTTCLFLHLRTHTEERPYESNHCCKGFRHSSSLAQHQRKHA  
GEKPFECRQLIFEQTPALTKHEWTEALGCDPPLSQDERTHRSDRPFKNQCGKCFIQSS  
HLIRHQITHTREEQPHGRSRRREQSSSRNSHLVQHHPNSRKSSAGGAKAGQPESRALAL  
FDIQKIMQEKNPVHVGVEEPSVGASMLFDIREST

>sp|Q0IIN9|ZNFS1\_HUMAN Putative uncharacterized protein ZNF252P-AS1 OS=Homo sapiens  
GN=ZNF252P-AS1 PE=5 SV=1

MLRQSCSFVTSPLALGGVCGREGAGAEVPPAACGCEGRDPDTERSCGRSSTGGCSPCSG  
PGPSSPRTSRGALSPSLGRLFPHLQVVIKLRIQLAPAVHLALPTCSLLTSSPPLEGCCHR  
LNEEAEVQRGFRPIAVELEFENQLPGAETRLRNGRRAGVKRSEGRGQVRPGQVRSTGPEG  
GLTRMERKAARLQWDSGSIKMSENEQLWEEP

>sp|O43257|ZNHI1\_HUMAN Zinc finger HIT domain-containing protein 1 OS=Homo sapiens  
GN=ZNHI1 PE=1 SV=1

MVEKKTSVRSQDPGQRRVLDRAARQRRINRQLEALENDNFQDDPHAGLPQLGKRLPQFDD  
DADTGKKKKKTRGDHFKLRFKRNQFALLEEQNLSVAEGPNYLTACAGPPSRPQRPFCAVC  
GFPSPTYCVSCGARYCTVRCLGTHQETRCLKWTV

>sp|Q9UDY2|ZO2\_HUMAN Tight junction protein ZO-2 OS=Homo sapiens GN=TJP2 PE=1 SV=2

MPVRGDRGFPPRRELSGWLRLAPGMEELIWEQYTVTLQKDSKRGFGIAVSGGRDNPHFENG  
ETSIVISDVLPGGPADGLLQENDRVVMNGTPMEDVLHSFAVQQLRKSGKVAAIVKRPR  
KVQVAALQASPLDQDDRAFEVMDDEFDGRSFRSGYSERSRLNSHGGRSRSWEDSPERGRP  
HERARSRERDLSRDRSRGRSLERGLDQDHARTDRSRGRSLERGLDHDGFSRDRDRDRS  
RGRSIDQDYERAYHRAYPDYERAYSPEYRRGARHDARSRGPRSRSRREPHSRSPSPEPR  
GRPGPIGVLLMKSRANEEYGLRLGSQIFVKEMTRTGLATKDGNLHEGDIILKINGTVTEN  
MSLTDARKLIEKSRGKLQLVLRLDSQQTLINIPSLNDSDEIEDISEIESNRSFSPEERR  
HQYSDYDYHSSSEKLKERPSSREDTPSRLSRMGATPTPFKSTGDIAGTVVPETNKEPRYQ  
EDPPAPQPKAAPRTFLRPSPEDEAIYGPNTKMVRFKKGDSVGLRLAGGNDVGIFVAGIQE  
GTSAEQEGLQEGDQILKVNTQDFRGLVREDAVLYLLEIPKGMVTTILAQSRADVYRDILA  
CGRGDSFFIRSHFECEKETPQSLAFTRGEVFRVVDTLYDGKLGWLAVRIGNELEKGLIP  
NKSRAEQMASVQNAQRDNAGDRADFWRMRGQRSQVKKNLKRSREDLTAVVSVSTKFPAYE  
RVLLREAGFKRPVVLFGPIADIAMEKLANELPDWFQTAKEPKDAGSEKSTGVVRLNTRV  
QITIEQDKHALLDVTPKAVDLLNYTQWFPVIVFFNPDSRQGVKTMQRNLNPTSNNKSSRKLF  
DQANKLKKTCAHLFTATINLNSANDSWFGSLKDTIQHQQGEAVVWSEGKMEGMDDDPEDR  
MSYLTAMGADYLSCDRLISDFEDTDGEGGAYTDNELDEPAEEPLVSSITRSSEPVQHEE  
SIRKPSPEPRAQMRRAASSDQLRDNSPPPAFKPEPPKAKTQNKESYDFSYSYKSNPS  
AVAGNETPGASTKGYPVAAKPTFGRSILKPSTPIPPQEGEEVGESSEEQDNAPKSVLG  
KVKIFEKMDHKARLQRMQELQEAQNARIEIAQKHPDIYAVPIKTHKPDGTPQHTSSRPP  
EPQKAPSRPYQDTRGSYGSDAESEYRQQLSEHSKRGYYGQSARYRDTL

>sp|P60852|ZP1\_HUMAN Zona pellucida sperm-binding protein 1 OS=Homo sapiens GN=ZP1 PE=2 SV=1

MAGGSATTWGYPVALLLLVATLGLGRWLQDPGLPGLRHSYDCGIKGMQLLVFPRPGQTL  
RFKVVDEFGNRFDVNNSICYHWVTSRPQEPVFSADYRGCHVLEKDGFRHLRVFMEAVL  
PNGRVDVAQDATLICPKPDPSRTLDSQLAPPAMFSVSTPQTLSFLPTSGHTSQSGHAFP  
SPLDPGHSSVHPTPALPSPGPGPTLATLAQPHWGTLEHWDVNRDYGTHLSQEQCQVAS  
GHLPCIVRRTSKEACQAGCCYDNTREVPCYYGNTATVQCFRDGYFVLVVSQEMALTHRI  
TLANIHLAYAPTSCSPTQHTAEFVVFFPLTHCGTTMQVAGDQLIYENWLVSIGIHIQKGP  
QGSITRDSTFQLHVRVFNASDFLPIQASIFPPSPAPMTQPGPLRLELRIAKDETFSSY  
YGEDDYPIVRLLRPVHVEVRLQRTDNLVLLHQCWGAPSANPFQPPQWPILSDGCPF  
KGDSYRTQMVALDGATPFQSHYQRFVATFALLDSGSQRALRGLVYFCSTSACHTSGLE  
TCSTACSTGTTRQRSSGHRNDTARPQDIVSSPGPVGFEDSYGQEPTLGPTDSNGNSSLR  
PLLWAVLLPAVALVLGFGVFGVLSQTWAQKLWESNRQ

>sp|P21754|ZP3\_HUMAN Zona pellucida sperm-binding protein 3 OS=Homo sapiens GN=ZP3 PE=1 SV=2

MELSYRLFICLLWGSTELCYPQLWLLQGGASHPETSVPVLEVCQEATLMVMVSKDLF  
GTGKLIRAADLTGPEACEPLVSMDETVDVRFVGLHECGNSMQVTDDALVYSTFLLHDP  
RPVGNLSIVRTNRAEPIECRYPRQGNVSSQAILPTWLPFRRTTVFSEEKLTFSRLMEEN  
WNAEKRSPTFHLGDAAHLQAEIHTGSHVPLRLFVDHCVATPTPDQNASPYHTIVDFHGCL  
VDGLTDASSAFKVPRPGPDTLQFTVDVFHFANDSRNMIYITCHLKVTLAEQDPDELNKAC  
SFSKPSNSWFPVEGSADICCCNKGDCGTPSHSRRQPHVMSQWSRSASRNRHVTEADV  
TVGPLIFLDRRGDHEVEQWALPSDTSVLLGVGLAVVSLTLTAVILVLTRRCRTASHPV  
SASE

>sp|Q9UK55|ZPI\_HUMAN Protein Z-dependent protease inhibitor OS=Homo sapiens GN=SERPINA10 PE=1 SV=1

MKVVPSLLLSVLLAQVWLVPG LAPSPQSPETPAPQNQTSRVVQAPKEEEEDEQEASEEKA  
SEEEKAWLMASRQQLAKETSNFGFSLLRKISMHRDGNMVFSPPGMSLAMTGLMLGATGPT  
ETQIKRGLHLQALKPTKPGLLPSLFKGLRETLNRNLELGLTQGSFAFIHKDFDVKETFFN  
LSKRYFDTECVPMNFRNASQAKRLMNHYINKETRGKIPKLFDEINPETKILVDYILFKG  
KWLTPFDPVFTEVDTFHLDKYKTIKVPMMYGAGKFASTFDKNFRCHVLKLPYQGNATMLV  
VLMEKMGDHLALEDYLTDLVETWLRNMKTRNMEVFFPKFKLDQKYEMHELLRQMGIRRI  
FSPFADLSELSATGRNLQVSRVLQRTVIEVDERGTEAVAGILSEITAYSMPPVIKVD RPF  
HFMIYEETSGMLLFLGRVVNPTLL

>sp|O95229|ZWINT\_HUMAN ZW10 interactor OS=Homo sapiens GN=ZWINT PE=1 SV=2

MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVD SQKKDKLLCSQLQVA  
DFLQNILAQEDTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQ  
MEEAQKRRTQLREAFEQ LQAKKQMA MEKRRAVQNQWQLQ QEKHLQHLAEVSAEVRERKTG  
TQQELDRV FQKLGNLKQQA EQERDKLQRYQTFLQLLYTLQ GKLLFPEAEAEAENLPDDKP  
QQPTRPQE QSTGDTMGRDPGV SFKAVGLQ PAGDVNLP

>sp|Q8IYH5|ZZZ3\_HUMAN ZZ-type zinc finger-containing protein 3 OS=Homo sapiens GN=ZZZ3 PE=1 SV=1

MAASRSTRVTRSTVGLNGLDESFCGRTRLNRSLAHPEEISSNSQVRSRSPKKRPEPVPIQ  
KGNNGRTTDLKQQTSTRESWVSPKRGLSSSEKDNIERQAIENCERRQTEPVSPVLKRIK  
RCLRSEAPNSSEEDSPIKSDKESVEQRSTVVDNDAFQGTKRACRCLILDDCEKREIKKV



NVSEEGPLNSAVVEEITGYLAVNGVDDSDSAVINCCDDCQPDGNTKQNSIGSYVLQEKSV  
ENGDTDTQTSMFLDSRKEDSYIDHKVPCTDSQVQVKLEDHKIVTACLPVEHVNQLTTEPA  
TGPFSETQSSLRDSEEEVDVVGDSASKEQCKENTNNELDTSLEMPASGEPEPSPVLDC  
VSAQMMSLSEPQEHRYTLRTSPRRAAPTSGPTKNSSPYRENGQFEENNLSPNETNATVS  
DNVSQSPTNPGEISQNEKGICCDSQNNGSEGVSKPPSEARLNIGHLPSAKESASQHITTE  
EDDDPDVYYFESDHVALKHNDYQRLQLTIAVLEAQRSQAVQDLESLGRHQREALKNPIG  
FVEKLQKKADIGLPYPQRVVQLPEIVWDQYTHSLGNFEREFKNRKRHTRRVKLVFDKVGL  
PARPKSPLDPKKDGESLSYSMLPLSDGPEGSSSRPQMIRGRLCDDTKPETFNQLWTVEEQ  
KKLEQLLIKYPPEEVESRRWQKIADELGNRTAKQVASRVQKYFIKLTAGIPVPGRTPNL  
YIYSKKSSTSRRHPLNKLHFKPSTFMTSHEPPVYMEDDDRSCFHSMTAVEDASDDE  
SIPIMYRNLPEYKELLQFKLKKQKLQMQAESGFVQHVGFKCDNCGIEPIQGVRWHCQD  
CPPEMSLDFCDSCDCLHETDIHKEDHGLEPIYRSETFLDRDYCVSQGTSYNYLDPNYFP  
ANR

>sp|Q9P1D8|YP008\_HUMAN Putative uncharacterized protein PRO2289 OS=Homo sapiens  
GN=PRO2289 PE=5 SV=1

MMITRGWEGWRRGARGAGTGTGLGGPGTPESSVTPPEFPLPPATRITPNFPNTLDPAIS  
RSSS

>sp|Q96M66|YP010\_HUMAN Putative uncharacterized protein FLJ32790 OS=Homo sapiens PE=2  
SV=2

MAAKSTQDSLPRDTGEPALPVQGRAEGRSSEGRKERTAECALRGKQASEPALRKRNFLP  
GPNSDTVRPAAETELVPCSLRHRPQDLCEHPSFPVMQPSLETQAKPERDRAVLIPKGP  
WPPAQGLAMRTHCPTGPPSKAYCRGSSSTSRNQVASLAYRTQNTAASQPRQPGGRGKED  
TAGYGSCSPRSLAV

>sp|A8MUN3|YQ048\_HUMAN Putative uncharacterized protein ENSP00000381830 OS=Homo sapiens  
PE=5 SV=1

MSFEYRHYKREAKICTCRGGWAHVLLCIGVSQGACAEHLPHRPAVEKDVPAGEVLFMCS  
WRIFPVASASPSSSISGLAGHSVFLVPGLAAHPGSHDQPPGVPSRRKSRLERWSPSVSR  
STSPTEAPFCL

>sp|Q6ZR03|YU004\_HUMAN Uncharacterized protein FLJ46757 OS=Homo sapiens PE=2 SV=1

MPCRLLHQRETRSGGPRGPRHSAPTGPGWNAPTLQSWEESHAPSRDPRDHQGSVEDTSL  
GGDAPADGVSPSPVPLQLGLGKAAGPGGTGAECQVVVATHRANLKPWDGRAAPLGKRTEE  
GRLSTSSCASVSRNKPDSPVQGDVPWPPESTGPALCAGEETEPQSSEGLAWGPWAQPWAP  
SLCPSQTGTASTASPQRASRLALQGPPGTILSLSSSSPCLPPSHCDPGAASSWAGLQSLK  
LLLQVSFQGAADGCSLRDANTNRKGPMHGSDFPRLCLHSMSLWGSWGSRRPPSPAHSREV  
AS

>sp|Q9BTK2|YX002\_HUMAN Putative uncharacterized protein LOC642776 OS=Homo sapiens PE=5  
SV=2

MEGMAAYPVATRESRCRRGRIGVQSPERRSEVVGPFLARSLS

>sp|Q49AG3|ZBED5\_HUMAN Zinc finger BED domain-containing protein 5 OS=Homo sapiens  
GN=ZBED5 PE=2 SV=2

MIAPLLCILSYNFNTFAILNVYSKLTMFCTTNSLPMDLLLKQGLKQEVESFCYQIVSES  
NDQKVGILQSEDKQLQPSVSKKSEGELSRVKFISNSNKITFSKKPKRRKYDESYLSFGFT  
YFGNRDAPHAQCVLCKILSNSSLAPSKLRRHLETKHAAYKDKDISFFKQHLDSPENNKP  
PTPKIVNTDNESATEASYNVSYHIALSGEAHTIGELLKPCA KDVVMRMFDEQYSKKIDA

VQLSNSTVARRIKDLAADIEEELVCRLKICDGFSLQLDESADVSGLAVLLVFVRYRFNKS  
IEEDLLLCESLQSNATGEEIFNCINSFMQKHEIEWEKCDVDCSDASRAVDGKIAEAVTLI  
KYVAPESTSSHCLLYRHALAVKIMPTSLKNVLDQAVQIINYIKARPHQSRLKILCEEMG  
AQHTALLNTEVRWLSRGKVLVRLFELRRELLVFMDSAFRLSDCLTNSSWLLRLAYLADI  
FTKLNEVNLSMQGKNVTFTVFDKMSSLLRKLEFWASSVEEENFDCFPTLSDFLTEINST  
VDKDICS AIVQHLRGLRATLLKYFPVTNDNNAWVRNPFTVTVKPASLVARDYESLIDLTS  
DSQVKQNFSELSLNDWFSSLIQEYPSIARRAVRVLLPFATMHLCETGFSYYAATKTKYRK  
RLDAAPHMRIRLSNITPNIKRICDKKTQKHCSH

>sp|Q9Y330|ZBT12\_HUMAN Zinc finger and BTB domain-containing protein 12 OS=Homo sapiens  
GN=ZBTB12 PE=1 SV=1

MASGVEVLRFLPGHEAATLRNMNQLRAEERFCDVTIVADSLKFRGHKVILAACSPFLRD  
QFLNPSSELQVSLMHSARIVADLLLSCYTGALEFAVRDIVNYLTAASYLQMEHVVEKCR  
NALSQFIEPKIGLKEDGVSEASLVSSISATKSLPPARTPKPAPKPPPPPLPPPLLRPV  
KLEFPLDEDELELKAEEEEDEDEDVSDICIVKVESALEVAHRLKPPGGLGGGLIGGSVG  
GHLGELAQSSVPPSTVAPPQGVKACYSLEDAEGEGLLLIPGGRASVGATSGLVEAAAV  
AMAARGAGGSLGAGGSRGPLPGGFSGGNPLKNIKCTKCPEVFQGVKLVFHMRAQHFIFM  
CPRCGKQFNHSSNLNRHMNVHRGVKSHSCGICGKCFTQKSTLHDHLNLHSGARPYRCSYC  
DVRFAHKPAIRRHLEQHGKTTAENVLEASVAEINVLIIR

>sp|O43829|ZBT14\_HUMAN Zinc finger and BTB domain-containing protein 14 OS=Homo sapiens  
GN=ZBTB14 PE=1 SV=2

MEFFISMSETIKYNDHDKTLFLKTLNEQRLEGEFCDIAIVVEDVKFRAHRCVLAACSTY  
FKKLKKLEVDSSSVIEIDFLRSDIFEEVLNYMTAKISVKKEDVNLMMSSGQILGIRFL  
DKLCSQKRDVSSPDENNGQSKSKYCLKINRPIGDAADTQDDDVEEIGDQDDSPSDDTVEG  
TPPSQEDGKSPTTLRVQEAILKELGSEEVKVNVCYQGEVESMETPESKDLGSQTPQALT  
FNDGMSEVKDEQTPGWTTAASDMKFEYLLYGHHREQIACQACGKTFSDGRLRKHEKLHT  
ADRPVFCMCTKGFTTQAHLKEHLKIHTGYKPYSCVCGKSFIRAPDLKKHERVHSNERP  
FACHMCDKAFKHKSHLKDHERHRGKPFVCGSCTKAFKASDLKRHENNMHSERKQVTP  
SAIQSETEQLQAAAMAAEAQQLETIACS

>sp|Q99592|ZBT18\_HUMAN Zinc finger and BTB domain-containing protein 18 OS=Homo sapiens  
GN=ZBTB18 PE=1 SV=1

MEFPDHSRHLQLCSEQRHQGFCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKR  
DIVHLNSDIVTAPAFALLLEFMYEGKLQFKDLPIEDVLAAASYLHMYDIVKVCKKKLKEK  
ATTEADSTKKEEDASSCSKVESLSDGSSHIAGDLPSEDEGEDEKLNILPSKRDAAEP  
GNMWMRLPSDSAGIPQAGGEAPHATAAGKTVASPCSSTESLSQRSVTSVRDSADVDCVL  
DL SVKSSLSGVENLNSSYFSSQDVLRSNLVQVKEKEASCDSDVGTNDYDMEHSTVKES  
VSTNNRVQYEPAPHLAPLREDSVLRELDREDKASDDEMTPESERVQVEGGMESLLPYVS  
NILSPAGQIFMCPLCNKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFS  
CMYTLKRHERTHSGEKPYTCTQCQKSFQYSHNLSRHAVVHTREKPHACKWCERRFTQSGD  
LYRHIRKFHCELVNSLSVKSEALSLPTVRDWTLEDSSQELWK

>sp|O15156|ZBT7B\_HUMAN Zinc finger and BTB domain-containing protein 7B OS=Homo sapiens  
GN=ZBTB7B PE=1 SV=2

MGSPEDDLIGIPFDHSSELLSCLNEQRQLGHLCDLTIRTQGLEYRTHRAVLAACSHYFK  
KLFTEGGGGAVMGAGSGTATGGAGAGVCELDVFGPEALGALLEFAYTATLTSSANMPA  
VLQAARLLEIPC VIAACMEILQSGGLEAPSPDEDDCERARQYLEAFATATASGVPNGEDS

PPQVPLPPPPPPPRPVARRSRKPRKAFLQTKGARANHLVPEVPTVPAHPLTYEEEEVAG  
RVGSSGGSGPGDSYSPPTGTASPPEGPQSYEPYEGEEEEELVYPPAYGLAQGGGPPLSP  
EELGSEDAIDPDLMAYLSSLHQDNLAPGLDSQDKLVKRKRSQMPQCEPVCCHKI IHGAGK  
LPRHMRTHTEKPFACEVCGVRFTRNDKLIHMRKHTGERPYSCPHCPARFLHSYDLKNH  
MHLHTGDRPYEHLCHKAFAKEDHLQRHLKGQNCLEVRTRRRRKDDAPPHYPPPSTAAAS  
PAGLDLSNGHLDTFRLSLARFWEQSAPTGPVSTPGPPDDDEEEGAPTPQAEGAMESS

>sp|Q9Y2K1|ZBTB1\_HUMAN Zinc finger and BTB domain-containing protein 1 OS=Homo sapiens  
GN=ZBTB1 PE=1 SV=3

MAKPSHSSVYLQQLNNQREWGFLCDDCIAIDDIYFQAHKAVLAACSSYFRMFFMNHQHST  
AQLNLSNMKISAECFDLILQFMYLGKIMTAPSSFEQFKVAMNYLQLYNVPDCLEDIQDAD  
CSSSKCSSSASSKQNSKMI FGVRYEDTVARNGNEANRWCAEPSSTVNTPHNREADEESL  
QLGNFPEPLFDVCKKSSVSKLSTPKERSRRFGRSFTCDSCGFGFSCEKLLDEHVLCTN  
RHLYQNTRSYHRIVDIRDGKDSNIKA EFGEKDSSKTFSAQTDKYRGDTSQAADDASTTG  
SRKSSTVESEIASEEKSRAERKRI IKMEPEDIPTDELKDFNI IKVTDKDCNESTDNDE  
LEDEPEEPFYRYVEEDVS IKKSGRCTLKPRMSVSADERGLENMRPPNNSSPVQEDAEN  
ASCELCGLTITEEDLSSHYLAKHIENICACGKCGQILVKGRQLQEHAQRCGEPQDLTMNG  
LGNTTEEKMDLEENPDEQSEIRDMFVEMLDDFRDNHYQINSIQKKQLFKHSACPFRCPCNG  
QRFETENLVVEHMSSCLDQDMFSAIMEENERDHRRKHFCNLGKGFYQRCHLREHYTVH  
TKEKQFVCQTCGKQFLRERQLRLHNDMHKGMARYVCSICDQGNFRKHDHVRHMISHLSAG  
ETICQVCFQIFPNNEQLEQHMDVHLYTCGICGAKFNLRKDMRSHYNAKHLKRT

>sp|Q96GY0|ZC21A\_HUMAN Zinc finger C2HC domain-containing protein 1A OS=Homo sapiens  
GN=ZC2HC1A PE=1 SV=2

MEGLEENGGVVQVGELLPCIKGRFFPVALKKHGPICTATKKRKTFDSSRQRAEGTD  
IPTVKPLKPRPEPPKPSNWRKHEEFIATIRAAKGLDQALKEGKLP PPPPSYDPDYI  
QCPYCQRRFNENAADRHINFCKEQAARISNKGKFSSTDTKGKPTSRTQVYKPPALKKSNP  
GTASSGSSRLPQPSGAGKT VVGVP SGKVSSSSSSLG NKLQTLSPSHKGI AAPHAGANVKP  
RNSTPPSLARNPAGVLTNKRKTYTESYIARPDGDCASSLNGGNIKGIEGHSPGNLPKFC  
HECGTKYPVEWAKFCCECGIRRMIL

>sp|Q53FD0|ZC21C\_HUMAN Zinc finger C2HC domain-containing protein 1C OS=Homo sapiens  
GN=ZC2HC1C PE=1 SV=3

MAGLQRLASHLPVGVMLPHNTTEAPGPHSAKQDSYEQGDSSQQLKGHLRNNFQKQLLSN  
KELILDKVYTHPKWNTQTKARSYSYPHCTGISQQDPESDSQGQGNLFYSSGPQSWYPKA  
NNQDFIPFTKKRVGVDRAPLKP MVHRKSCSTGEAGTDGDHNVYPRPPEPREFSSRNFGV  
RNQGNFSVVGTVLAATQAEKAVANFDRTEWVQIRRLEAAGESLEEEIRRKQILLRGKLKK  
TEEELRRIQTQKEQAKENENGELQKIILPRSRVKGNKSNMYKPIFSPEFEFEFEFSRDR  
REDETWGRSQNSGPFQFSDYRIQLKRERLVASNNKIRDPVSEPSVEKFSPPSETPVGA  
LQGSARNSSLSMAPDSSSGSGSIEEPQLGECSHCGRKFLSFRLERHSNICS RMRGSKRKV  
FDSSRARAKGTELEQYLNWGPASAKAEPQKSNWR

>sp|Q8N5P1|ZC3H8\_HUMAN Zinc finger CCCH domain-containing protein 8 OS=Homo sapiens  
GN=ZC3H8 PE=1 SV=2

MDFENLFSKPPNPALGKTATDS DERIDDEIDTEVEETQEEKIKLECEQIPKKFRHSAISP  
KSSLHRKRSRKDYDVYSNDICSQESEDNFAKELQYYIQAREMANAAQPEESTKKEGVKD  
TPQAAKQKNKNLKAGHKNGKQKMKRKWPGPGNKGSNALLRNSGSQEEDGKPKEKQQHLS  
QAFINQHTVERKGKQICKYFLERKCIKGDQCKFDHDAEIEKKKEMCKFYVQGYCTRGENC

LYLHNEYPCFYHTGTKCYQGEYCKFSHAPLTPETQELLAKVLDTEKKSCK

>sp|Q8WYQ9|ZCH14\_HUMAN Zinc finger CCHC domain-containing protein 14 OS=Homo sapiens  
GN=ZCCHC14 PE=2 SV=1

MASNHPAFSFHQKQVLRQELTQIQSSLNGGGHGGKGAPGPGALPTCPACHKITPRTEA  
PVSSVSNSLENALHTSAHSTESLPRPLGKHSKVSVEKIDLKGLSHTKNDNRNECSFEV  
LWSDSSITSVTKSSSEVTEFISKLCQLYPEENLEKLIPCLAGPDAFYVERNHVLDLSGLR  
YLASLPSHVLKNDHVRRFLSTSSPPQQLQSPSPGNPSLSKVGTVMGVSGRPVCGVAGIPS  
SQSGAQHHGQHPAGSAAPLPHCSHAGSAGSALAYRTQMDTSPAILMPSSLQTPQTQEONG  
ILDWLRKLRLHKYYPVFKQLSMEKFLSLTEEDLNKFESLTMGAKKKLKTQLELEKEKSER  
RCLNPSAPPLVTSSGVARVPPTSHVGPVQSGRGSHAAELRVEVEQPHHQLPREGSSSEYS  
SSSSSPMGVQAREESSDAEENDRRVEIHLESSDKEKPVMLLNHFTSSSARPTAQVLPVQ  
NEASSNPSGHHPLPPQMLSAASHITPIRMLNSVHKPERGSADMKLLSSSVHSLLSLEERN  
KSGSPRSSMKVDKSFSGSAMMDVLPASAPHQPVQVLSGLSESSMSPTVSFGPRTKVHAS  
TLDRVLKTAQQPALVVETSTAATGTPSTVLHAARPPIKLLSSSVPADSAISGQTSCPNN  
VQISVPPAIINPRTALYTANTKVAFSAMSSMPVGPLQGGFCANSNTASPSSHPSTSFANM  
ATLPSCPAPSSSPALSSVPESFYSSSGGGGSTGNIPASNPNNHHHHHHHQQPPAPPQPAP  
PPPGCIVCTSCGSCGSGSSGLTVSYANYFQHPFSGPSVFTFPFLPFSPMCSSGYVSAQQ  
YGGGSTFPVVHAPYSSSGTPDPVLSGQSTFAVPPMQNFMAGTAGVYQTQGLVGSSNGSSH  
KKSGNLSCYNCGATGHRAQDCKQPSMDFNRPGTFRLLKYAPPAESLDSTD

>sp|Q6ZST2|ZCH23\_HUMAN Zinc finger CCHC domain-containing protein 23 OS=Homo sapiens  
GN=ZCCHC23 PE=2 SV=1

MLLLNQTLATTEKQTALQAAEFVDELCSISAKKGRGYARKRQKNLLATLQAYKPQNP  
DAPVNCCKCGKPGNVKNDPCGSMRKPAPPCPCGGDHWRVDCPQRCRSLGPKPVSQVSNR  
IDGPQGSCPW

>sp|Q9H8X9|ZDH11\_HUMAN Probable palmitoyltransferase ZDHHC11 OS=Homo sapiens GN=ZDHHC11  
PE=2 SV=1

MDTRSGSQCSVTPEAILNNEKLVLPRI SRVNGWSLPLHYFQVVTWAVFVGLSSATFGIF  
IPFLPHAWKYIAYVVTGGIFSFHLVVHLIASCIDPADSNVRLMKNYSQPMPLFDRSKHAH  
VIQNQFCHLCKVTNVNKKTKHCISCNKCVSGFDHCKWINNCVGSRYWFFFSTVASATAG  
MLCLIAILLYVLVQYLVNPGVLRTPRYEDVKNMNTWLLFLPLFPVQVQTLIVVIIGMLV  
LLLDLFLGLVHLGQLLIFHIYLKAKMTTFEYLINNKEESSKHQAVRKDPYVQMDKGVLQ  
QGAGALGSSAQGVKAKSSLLIHKHLCHFCTSVNQDGDSTAREGDEPCPSALGAKARNSR  
LICRRLCQFSTRVHPDGGSMQAEADDAPSISTLGLQQUETTEPMKTDSAESD

>sp|Q8IUH4|ZDH13\_HUMAN Palmitoyltransferase ZDHHC13 OS=Homo sapiens GN=ZDHHC13 PE=1 SV=3

MEGPGLGSQCRNHSHPHPPGFGRYGICAHENKELANAREALPLIEDSSNCDIVKATQYG  
IFERCKELVEAGYDVRQPDKENVSLHWAAINNRLDLVKFYISKGAVVDQLGGDLNSTPL  
HWAIRQGHLPMVILLQHGADPTLIDGEGFSSIHLLAVLQHMPIIAYLISKQSVNMTDV  
NGQTPLMLSAHKVIGPEPTGFLKFNPSLNVVDKIHQNTPLHWAVAAGNVNAVDKLEAG  
SSLDIQNVKGETPLDMALQKNQLIIHMLKTEAKMRANQKFRLLRWLQKCELFLLMLSV  
ITMWAIGYILDFNSDSWLLKGCLLVTLFFLTSLFPRFLVGYKNLVYLPATFLLSSVFWIF  
MTWFIFFPDLAGAPFYFSFIFSIVAFLYFFYKTWATDPGFTKASEEEKVNIITLAETG  
SLDFRTFCTSLIRKPLRSLHCHVCNCCVARYDQHCLWTGRCIGFGNHHYIIFLFLSM  
VCGWIIYGSFIYLSHCATTFKEDGLWYTLNQIVACSPWVLYILMLATFHFSWSTFLLN  
QLFQIAFLGLTSHERISLQKQSKHMKQTLRLKTPYNLGMQNLADFFQCGCFGLVKPCV

VDWTSQYTMVFHPAREKVLRSV

>sp|Q969W1|ZDH16\_HUMAN Probable palmitoyltransferase ZDHC16 OS=Homo sapiens GN=ZDHC16 PE=1 SV=1

MRGQRSLLLGPARLCLRLLLLLGYRRRCPLLRLGLVQRWRYGKVCRLSLLYNSFGGSDTA  
VDAAFEPVYWLVDNVIRWFGVVFVVLVIVLTGSIVAIAYLCVLPLILRTYSVPRLCWHFF  
YSHWNLILIVFHYYQAITTPPGYPPQGRNDIATVSICKKCIYPKPARTHHCSICNRCVLK  
MDHHCPLWNLCVGHYNHRYFFSFCFFMTLGCVCYCSYGSWDLFREAYAAIEKMKQLDKNKL  
QAVANQTYHQTPPTFSFRERMTHKSLVYLWFLCSSVALALGALTVMHAVLISRGETSIE  
RHINKKERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTRHWLTRVLLPSSSHLPHGNGMS  
WEPPPWVTAHSASVMAV

>sp|Q8NB50|ZFP62\_HUMAN Zinc finger protein 62 homolog OS=Homo sapiens GN=ZFP62 PE=1 SV=3

MSHLKTSTEEDEEPTTEYENVGNAASKWPKVEDPMPESKVGDTCVWDSKVENQQKKPVENR  
MKEDKSSIREAISKAKSTANIKTEQEGEASEKSLHLSPOHITHQTMPIGQRGSEQGKRVE  
NINGTSYPSLQKQNAVKKLHKCECGKSFKYNSRLVQHKIMHTGEKRYECDDCGGTFRS  
SSSLRVHKRIHTGEKPYKCEECGKAYMSYSSLINHKSTHSGEKNCKCECGKSFNYSSVL  
DQHKRIHTGEKPYECGECGKAFRNSSGLRVHKRIHTGEKPYECDICGKTFSNSSGLRVHK  
RIHTGEKPYECDECGKAFITCRTLLNHKSIHFGDKPYKCECEKSFNYSSLLIQHKVIHT  
GEKPYECDECGKAFRNSSGLIVHKRIHTGEKPYKCDVCGKAFSYSSGLAVHKSIIHPGKA  
HECKECGKSFSYNSLLLQHRTIHTGERPYVCDVCGKTRNNAGLKVHRRLHTGEKPYKCD  
VCGKAYISRSSLKNHKGHLGEKPYKCSYCEKSFNYSSALEQHKRIHTREKPFGCDECGK  
AFRNNGLKVHKRIHTGERPYKCEECGKAYISLSSLINHKSVHPGKPFKCECEKAFIT  
YRTL TNHKKVHLGEKPYKCDVCEKSFNYTSLLSQHRRVHTREKPYECDRCEKVFRNSSL  
KVHKRIHTGERPYECDVCGKAYISHSSLINHKSTHPGRTPHTCECGKAFFSSRTLISHK  
RVHLGEKPFKCECGKSFSYSSLLSQHKRIHTGEKPYVCDRCGKAFRNSSGLTVHKRIHT  
GEKPYECDECGKAYISHSSLINHKSVHQGKQPYNCECGKSFNYRSLDQHKRIHTGKKPY  
RCNECGKAFNIRSNLTCHKRTHTEESLNVIVGSGTSQKRTYEGGNALDGGRMRMPL

>sp|Q8TF47|ZFP90\_HUMAN Zinc finger protein 90 homolog OS=Homo sapiens GN=ZFP90 PE=1 SV=2

MAPRPPTAAPQESVTFKDVSVDFTEQEWYHVDPAQRSLYRDVMLENYSHLVSLGYQVSKP  
EVIFKLEQGEEPWISEGEIQRPFYPDWKTRPEVKSSHLQQDVSEVSHCTHDLHATLEDS  
WDVSSQLDRQQENWKRHLGSEASTQKKIITPQENFEQNKFGENSRLNTNLVTQLNIPARI  
RPSECEITLGSNLGHNADLLNENNILAKKKPYKCDKCRKAFIHRSSLTKHEKTHKGEGAFP  
NGTDQGIYPGKKHHECTDCGKTFLWKTQLTEHQRIHTGEKPFECNVCGKAFRHSSSLGQH  
ENAHTGEKPYQCSLCGKAFQRSSSLVQHQRIHTGEKPYRCNLGRSFRHGTSLTQHEVTH  
SGEKPFCQKECGKAFSRSSSLVQHERTHTGEKPFECICGRAFGQSPSLYKHMRIHKRGK  
PYQSSNYSIDFKHSTSLTQDESTLTEVKSYPHCNDCGEDFSHITDFTDHQRIHTAENPYDC  
EQAFSQQAI SHPGEKPYQCNVCGKAFKRSTSFIEHHRIHTGEKPYECNECGEAFSRRSSL  
TQHERTHTGEKPYECIDCGKAFSQSSSLIQHERTHTGEKPYECNECGRAFRKKTNLHDHQ  
RIHTGEKPYSCKECGKNFSRSSALTKHQRIHTRNKL

>sp|Q96KR1|ZFR\_HUMAN Zinc finger RNA-binding protein OS=Homo sapiens GN=ZFR PE=1 SV=2

MIPICPVVSFTYVPSRLGEDAKMATGNYFGFTHSGAAAAAAAQYSQQPASGVAYSHPTT  
VASYTVHQAPVAAHTVTAAYAPAAATVAVARPAPVAVAAAAATAAAYGGYPTAHTATDYG  
TQRQQAEP PPPPATQNYQDSYSYVRSTAPAVAYDSKQYYQQPTATAAAVAAAAQPQS  
VAETYYQTAPKAGYSQATQYTQAQQTQVTAIKPATPSPATTTFSIYPVSSTVQPVAAA  
ATVVPSTYQSATYSTTAVTYSYSGYEAAYSAASSYYQQQQQQKQAAAAAAAAAAT

AAWTGTTFTKKAPFQNKQLKPKQPPKPPQIHVCDVCKISCAGPQTYKEHLEGQKHKKKEA  
ALKASQNTSSSNSSTRGTQNQLRCELCDVSCTGADAYAAHIRGAKHQVVKLHTKLGKPI  
PSTEPNVVSQATSSTAVSASKPTASPSSIAANNCTVNTSSVATSSMKGLTTGNSSLNST  
SNTKVSAPPTNMAAKKTSTPKINFVGGNKLQSTGKAEDIKGTECVKSTPVTSAVQIPEV  
KQDTVSEPVTPASLAALQSDVQPVGHDYVEEVNRNDEGKVI RFHCKLCECSFNPNKEMH  
LKGRRHRLQYKKKVNPDLQVEVKPSIRARKIQEEKMRKQMKEEYWRRREEERWRMEMR  
RYEEDMYWRRMEEEEQHWWDRRRMPDGGYPHGPPLGLLGVRPGMPPQPQGPAPLRRPD  
SSDDRYVMTKHATIIPTTEEELQAVQKIVSITERALKLVSDSLSEHEKNKNKEGDDKKEGG  
KDRALKGVL RVGLAKGLLLRGDRNVNLVLLCSEKPSKTL SRIAENLPKQLAVISPEKY  
DIKCAVSEAAIILNSCVEPKMQVTITLTSP IIREENMREGDVTSGMVKDPPDVLDRQKCL  
DALAALRHAKWFQARANGLQSCVIIIRILRDL CQRVPTWSDFPSWAMELLVEKAISSASS  
PQSPGDALRRVFECISSGIILKGPSGLLDPCCKDPFDTLATMTDQQREDITSSAQFALRL  
LAFRQIHKVLGM DPLPQMSQRFNIHNNRKR RRRSDGVDGFEAEGKKDKDYDNF

>sp|Q9HBF4|ZFYV1\_HUMAN Zinc finger FYVE domain-containing protein 1 OS=Homo sapiens  
GN=ZFYVE1 PE=1 SV=1

MSAQTSPAEKGLNPGLMCQESYACSGTDEAIFECDECCSLQCLRCEEELHRQERLRNHER  
IRLKP GHVPYCDLCKGLSGHLPGRVQR AIVRCQTCKINLCLECKRTHSGGNKRRHPVTV  
YNVSNLQESLEAEEMDEETKRKKMTEKVV SFLVDENEEIQVTNEEDFIRKLDCKPDQHL  
KVVSIFGNTGDGKSHTLNHTFFYGREVF KTSPTQESCTVGWAAAYDPVHKVAVIDTEGLL  
GATVNL SQRTRLLLKVL AISDLVIYRTHADRLHNDLFKFLGDASEAYLKHFTKELKATTA  
RCGLDVPLSTLGP AVII FHETVHTQLLGSDHPSEVPEKLIQDRFRKLGRFPEAFSSIHYK  
GTRTYNPPTDFSGLRRALEQLLENNTTRSPRH PGVIFKALKALSDRFSGEIPDDQMAHSS  
FFPDEYFTCSSLCLSCGVGCKKSMNHGKEGV PHEAKSRCRYSHQYDNRVYTCKACYERGE  
EVSVPKTSASTDSPWMGLAKYAWSGYVIECPNCGVVYRSRQYWFGNQDPVDTVVRTEIV  
HVWPGTDGFLKDNNNAQRLLDGMNFMAQSVSELSLGPTKAVTSWLT DQIAPAYWRPNSQ  
ILSCNKCATSFKDNDTKHHCRACGEGFC DSCSSKTRPVPERGWGPAPVRVCDNCYEARNV  
QLAVTEAQVDDEGGTLIARKVGEAVQNTLGAVVTAID IPLGLVKDAARPAYWVPDHEILH  
CHNCRKEFSIKLSKHHCRACGGFCDECSH DRRAPVPSRGWDHPVRVCFNCNKKPGDL

>sp|O95405|ZFYV9\_HUMAN Zinc finger FYVE domain-containing protein 9 OS=Homo sapiens  
GN=ZFYVE9 PE=1 SV=2

MENYFQAEAYNLDKVLDEFEQNEDETVSSTLLDTKWNKILDPPSHRLSFNPTLASVNESA  
VSNESQPQLKVFSLAHSAPLTTEEEDHCANGQDCNLNPEIATMWIDENAVAEDQLIKRNY  
SWDDQCSAVEVGEKKCGNLACL PDEKNVLVAVMHNC DKRTLQNDLQDCNNYNSQSLMDA  
FSCSLDNENRQTDQFSFSINESTEKDMNSEKQMDPLNRPKTEGRSVNHL CPTSSDSLASV  
CSPSQLKDDGSGIRDPMSAITS LTVDSVISSQGTGCPAVKKQENYIPDEDLTGKISSP  
RTDLGSPNSFSHMEGILMKKEPAEESTTEESLRSGLP LLLKPDMPNGSGRNND CERCSD  
CLVPNEVRADENEGYEHEETLTGTEFLNMTEHFSESQDMTNWKLTKLNEMNDSQVNEEKE  
KFLQISQPEDTNGDSGGQCVGLADAGLDLKGTCISESEECDFSTVIDTPAANYLSNGCDS  
YGMQDPGVSFVPKTLPSKEDSVTEEKEIEESKSECYSNIYEQRGNEATEGSGLLLNSTGD  
LMKKNYLHNFC SQVPSVLGQSSPKVVASLPSISVPFGGARPKQPSNLKLQIPKPLSDHLQ  
NDFPANS GNNTKNKNDILGKAKLGENSATNVCSPSLGNISNVD TNGEHLESYEA EISTRP  
CLALAPDSPDNDLRAGQFGISARKPFTTLGEVAPVWVPDSQAPNCMKCEARFTFTKRRHH  
CRACGKVF CASCCKLCKLLYMDRKEARVCVICHSVLMNAQAWENMMSASSQSPNPNPA  
EYCSTIPPLQQAQASGALSSPPPTVMVPVGV LKHPGAEVAQPREQRRVWFADGILPNGEV

ADAAKLTMNGTSSAGTLAVSHDPVKPVTTSPSPAETDICLFSGSITQVGSPVGSAMNLIP  
EDGLPPILISTGVKGDYAVEEKPSQISVMQQLEDGGPDPLVFVLNANLLSMVKIVNYVNR  
KCWCFTTKGMHAVGQSEIVILLQCLPDEKCLPKDIFNHVQLYRDALAGNVVSNLGHSTF  
SQSFLGSKEHGGFLVYTSTYQSLQDLVLPTPPYLFGLIQKWETPWAKVFPRLMLRLGA  
EYRLYPCPLFSVRFRKPLFGETGHTIMNLLADFRNYQYTLFVVQGLVVDMEVRKTSIKIP  
SNRYNEMMKAMNKSNEHVLGAGACFNEKADSHLVQVQNDGNYQTQAISIHNQPRKVTGA  
SFFVFGALKSSSGYLAKSSIVEDGVMVQITAENMDSLRQALREMKDFTITCGKADAEPP  
QEHIIHQWVDDDKNVSKGVVSPIDGKSMETITNVKIFHGSEYKANGKVIRWTEVFFLEND  
DQHNCLSDPADHSRLTEHVAKAFCLALCPHLKLLKEDGMTKLGLRVTLDSDQVGYQAGSN  
GQPLPSQYMNLDLSALVPVIHGGACQLSEGPVVMELIFYILENIV

>sp|O60844|ZG16\_HUMAN Zymogen granule membrane protein 16 OS=Homo sapiens GN=ZG16 PE=1 SV=2

MLTVALLALLCASASGNAIQARSSSYSGEYGGGGGKRFSHSGNQLDGPITALRVRVNTYY  
IVGLQVRYGVWSDYVGGRRNGDLEEIFLHPGESVIQVSGKYKWLKLLFVTDKGRYLSF  
GKDSGTSFNAVPLHPNTVLRFISGRSGSLIDAIGLHWDVYPSSCSRC

>sp|Q15915|ZIC1\_HUMAN Zinc finger protein ZIC 1 OS=Homo sapiens GN=ZIC1 PE=1 SV=2

MLLDAGPQYPAIGVTTFGASRHSAGDVAERDVGLGINPFADGMGAFKLNPSSELASAG  
QTAFTSQAPGYAAAAALGHHHPGHVGSYSSAAFNSTRDFLFRNRGFGDAAAAASAQHS  
FAASAGFGGPHGHTDAAGHLLFPGLHEQAAGHASPNNVNGQMRLGFSGDMYRPEQYGG  
VTSPRSEHYAAPQLHGYGPMNVNMAAHGAGAFFRYMRQPIKQELICKWIEPEQLANPKK  
SCNKTFTMHVLTHTVTHVGVGPEQSNHICFWEECPREGKPFKAKYKLVNHIRVHTGEK  
PFPCPFPGCGKVFARSENKIIHKRTHTEKPFKCEFECDRRFANSSDRKKHMHVHTSDK  
PYLCKMCDKSYTHPSSLRKHMKVHESSSQSQSPSPAASSGYESSTPPTIVSPSTDNPPTS  
SLSPSSSAVHHTAGHSALSSNFNEWYV

>sp|Q3SY52|ZIK1\_HUMAN Zinc finger protein interacting with ribonucleoprotein K OS=Homo sapiens GN=ZIK1 PE=2 SV=1

MAAAALRAPTVTVSPETHMDLTKGCVTFEDIAIYFSQDEWGLLDEAQRLLYLEVMLENF  
ALVASLGCGHGTDEETPSDQNVSVGVSQSKAGSSTQKTQSCMCVPVLKDILHLADLP  
QKPYLVGECTNHHQHQQHHSKAKSLKRDMDRASYVKCCLFCMSLKPFKWEVKGDLPA  
MLRLLRSLVFPGGKKPGTITECGEDIRSQKSHYKSGECGKASRHKHTPVYHPRVYTGK  
KLYECSKCGKAFRGKYSVLVQHQRVHTGERPWECNECGKFFSQTSHLNDHRRHTGER  
PYECSECGKLFRQNSSLVDHQIHTGARPYECQCGKSFSQKATLVKHQRVHTGERPYK  
CGECGNSFSQSAIILNQHRRHTGAKPYECGQCGKSFSQKATLIKHQRVHTGERPYK  
CGDCGKSFSQSSILIQHRRHTGARPYECGQCGKSFSQKSLIQHQVVHTGERPYECN  
KCGNSFSQCSSLIHQKCHNT

>sp|P17029|ZKSC1\_HUMAN Zinc finger protein with KRAB and SCAN domains 1 OS=Homo sapiens GN=ZKSCAN1 PE=1 SV=3

MMTAESREATGLSPQAAQEKDGIVIVKVEEEDHMGWGDSTLQDTPPPDPEIFRQRFR  
RFCYQNTFGPREALSRLKELCHQWLRPEINTKEQILELLVLEQFLSILPKELQVWLQ  
EYRPDSGEEAVTLLDLELDLGGQVPGQVHGPEMLARGMVPLDPVQESSFDLHHEATQ  
SHFKHSSRKPRLLQSRALPAAHIPAPPHEGSPRDQAMASALFTADSQAMVKIEDMAV  
SLILEEWGCNLARRNLSRDNRQENYGAFFPQGGENRNENEESTSKAETSEDSASRGET  
TGRSQKEFGKRDQEGKTGERQKNPEEKTRKEKRDSPGPAIGDKKTTITGERGP  
REKGGKGLGRSFSLSNFTTPEEVPTGKSHRCDECGKCFTRSSSLIRHKIHTGEKPYE  
CSECGKAFSLNSNL

VLHQRIHTGEKPHECNECGKAFSHSSNLILHQRIHSGEKPYESNECGKAFSSSDLTKHQ  
RIHTGEKPYESCECGKAFNRNSYLILHRRIHTRKPYKCTKCGKAFTRSSTLTLHHRHA  
RERASEYSPASLDAFGAFLKSCV

>sp|Q9Y2L8|ZKSC5\_HUMAN Zinc finger protein with KRAB and SCAN domains 5 OS=Homo sapiens  
GN=ZKSCAN5 PE=1 SV=1

MIMTESREVIDLDPPAETSQEEDLFIVKVEEDCTWMQEYNPPTFETFYQFRHFQYHE  
ASGPREALSQLRVLCCWEWRPELHTKEQILELLVLEQFLTILPEEFQPWVREHHPESGEE  
AVAVIENTQRELEERRQQIVACPDVLPKMATPGAVQESCSPHPLTVDTQPEQAPQKPRL  
LEENALPVLQVPSLPLKDSQELTASLLSTGSQKLVKIEEVADVAVSFILLEWGLDQSQK  
SLYRDDRKENYGSITSMGYESRDNMELIVKQISDDSESHWVAPEHTERSVQDPDFAEVS  
DLKGMVQRWQVNPVTGKSRQNPQKRDLDITDISPKQSTHGERGHRCSDCGKFFLQASN  
FIQHRRIHTGEKPFKCGECGKSYNQRVHLTQHQRVHTGEKPYKQVCGKAFRVSSHLVQH  
HSVHSGERPYGCNECGKNFGRHSHLIEHLKRHFREKSQRCSDKRSKNTKLSVKKKISEYS  
EADMELSGKTQRNVSQVQDFGEGCEFGKLDKQGIKPEILGQPSKRMNYSEVPYVHK  
KSSTGERPHKNECGKSFIQSAHLIQHQRIHTGEKPFCEECGKSYNQRVHLTQHQRVHT  
GEKPYTCPLCGKAFRVRSHLVQHQS VHSGERPFKNECGKGFGRSHLAGHLRLHSREKS  
HQCRCGEIFFQYVSLIEHQVLHMGQKNEKNGICEEAYSWNLTVIEDKKIELQECPYQCD  
ICGKAFGYSSDLIQHYRTHAEKPYQCDICRENVGQSHTKQHKIYSSTKSHQCHECGR  
GFTLKSHLNQHQRIHTGEKPFQCKECCGMNFSWSCSLFKHLRSHERTDPINTLSVEGSL

>sp|Q5H9K5|ZMAT1\_HUMAN Zinc finger matrin-type protein 1 OS=Homo sapiens GN=ZMAT1 PE=2  
SV=1

MESCSVTRLECSGAISAHCSLHLPSSDSPASASQIAGTTDAIWNEQEKAELFTDKFCQV  
CGVMLQFESQRISHYEGEKHAQNVSFYFQMHEQNEVPKGKMKMHVENFQVHRYEGVDKN  
KFCDLNMMFSSPLIAQSHYVGKVHAKKLQLMEEHDQASPSGFQPEMAFSMRTYVCHIC  
SIAFTSLDMFRSHMQGSEHQIKESIVINLVKNSRKTQDSYQNECADIINVQKARGLEAKT  
CFRKMEESSLETRRYREVVDSPRPRHRMFEQRLPFETFRTYAAPYNISQAMEKQLPHSKKT  
YDSFQDELEDYIKVQKARGLDPKTCFRKMRENSVDTHGYREMVDGPRSRMCEQRFSEHA  
SQTYQRPYHISPVESQLPQWLPHTSKRTYDSFQDELEDYIKVQKARGLEPKTCFRKIGDS  
SVETHRNREMVDPVRPRHMLEQLPCETFQTYSGPYSISQVVENQLPHCLPAHDSKQRLD  
SISYCQLTRDCFPEKPVPLSLNQENNSGYSVESEVYKHLSENNTADHQAGHKQKHQK  
RKRHLEEGKERPEKEQSKHKRKKSYEDTDLDDKKSIRQRKREEDRVKVSSGKLKHKRKKK  
SHDVPSEKEERKHKRKKKSVEERTEEMLWDEILGF

>sp|Q15326|ZMY11\_HUMAN Zinc finger MYND domain-containing protein 11 OS=Homo sapiens  
GN=ZMYND11 PE=1 SV=2

MARLTKRRQADTKAIQHLWAAIEIIRNQKQIANIDRITKYMSRVHGMHPKETTRQLSLAV  
KDGLIVETLTVGCKGSKAGIEQEGYWLPGDEIDWETENHDWYCFEHLPGEVLICDLCFR  
VYHKSCLSDFERLDRSSSPWQCPVCRSIIKKNTNKQEMGYLRFIVSRMKERAIDLNKKG  
KDNKHPMYRRLVHSAVDVPTIQEKVNEGKYRSYEEFKADAQLLLHNTVIFYGADSEQADI  
ARMLYKDTCHELDELQLCKNCFYLSNARPDNWFYPCIPNHELWAKMKGFGWPAKVMQ  
KEDNQVDVRFVFGHHQRAWIPSENIQDITVNIHRLHVKRSWGKACDELELHQRFLREG  
RFWKSKNEDRGEAAESSISSTSNEQLKVTQEPRAKKGRRNQSVEPKKEEPEPETEAVSS  
SQEIPTMPQPIEKVSSTQTKKLSASSPRMLHRSTQTTNDGVCQSMCHDKYTKIFNDFKD  
RMKSDHKRETERVVREALEKLREMEEEKRQAVNKAVANMQGEMDRKCKQVKECKKEEFV  
EEIKKLATQHKQLISQTKKKQWCYNCEEEAMHCCWNTSYCSIKCQGEHWAHEHKRTCRR



KR

>sp|Q9UBW7|ZMYM2\_HUMAN Zinc finger MYM-type protein 2 OS=Homo sapiens GN=ZMYM2 PE=1 SV=1  
MDTSSVGGLELTDQTPVLLGSTAMATSLTNVNSFSGPANPLVSRSNKFQNSSVEDDDDDV  
VFIEPVQPPPPSPVPVADQRTITFTSSKNEELQGNSKITPSSKELASQKGSVSETIVID  
DEEDMETNQGQEKSSNFIERRPPETKNRTNDVDFSTSSFSRSKVNAGMNGSGITTEPDS  
EIQIANVTTLETGVSSVNDGQLENTDGRDMNLMITHVTSLQNTNLGDVSNGLQSSNFGVN  
IQTYTPSLTSQTKTGVPFNPGRMNVAGDVFQNGESATHNPDSWISQSASFPRNQKQPG  
VDSLSPVASLPKQIFQPSVQQQPTKPVKVCANCKKPLQKGQTAYQRKGS AHLFCSTTCL  
SSFSHKPAPKKLCVMCKKDITTMKGTIVAQVDSSESQFEFCSTSCLSLYEDKQNP TKGAL  
NKSRTCICGKLTEIRHEVSFKNMTHKLCSDHCFNRYRMANGLIMNCCEQCGEYLPSKGAG  
NNVLVIDGQQKR FCCQSCVSEYKQVGSHP SFLKEVRDHMQDSFLMQPEKYGKLTCTGCR  
TQCRFFDMTQCIGPNGYMEPYCSTACMNSHKTKYAKSQSLGIICHFCKRNSLPQYQATMP  
DGKLYNFCNSSCAKFQALSMQSSPNGQFVAPSDIQLKCNCKNSFC SKPEILEWENKVH  
QFCSKTCSDDYKLLHCIVTYCEYQEEKTLHETVNFSGVKRPF CSEGCKLLYKQDFARRL  
GLRCVTCNYCSQLCKKGATKELDG VVRDFCSEDCKKFQDWYKAARCDCKSQGTLKER  
VQWRGEMKHFCDQHCLLRFYCQQNEPNMTTQKGPENLHYDQGCQTSRTKMTGSAPPPSPT  
PNKEMKNKAVLCKPLTMTKATYCKPHMQTKSCQTDDTWRTEYVPVIPVPVYIPVPMHMY  
SQNIPVPTTVPVPVPVFLPAPLDSSEKIPAAIEELKSKVSSDALDTELLTMTDMMSD  
EGKTETTNINSV IETDIIGSDLLKNSDPETQSSMPDVPYEPDLIDIEIDFPRAAEELDME  
NEFLPPVFGEYEEQPRPRSKKKGAKRKAVSGYQSHDDSSDNSECSFPFKYTYGVNAWK  
HWVKTRQLDEDLLVLDELKSSSVKLKEDLLSHTTAELNYGLAHFVNEIRRPNGENYAPD  
SIYYLCLGIQEYLCGSRKDNIFIDPGYQTFEQELNKILRSWQPSILPDGSIFSRVEEDY  
LWRIKQLGSHSPVALLNTLFYFNTKYFGLKTVEQHLRLSFGTVFRHWKKNPLTMENKACL  
RYQVSSLCGTDNEDKITTGKRKHEDDEPVFEQIENTANPSRCPVKMFECYLSKSPQNLNQ  
RMDVFYLQPECSSSTDSPVWYTSTSLDRNTLENMLVRVLLVKDIYDKDNYELDEDTD

>sp|Q9UJ78|ZMYM5\_HUMAN Zinc finger MYM-type protein 5 OS=Homo sapiens GN=ZMYM5 PE=1 SV=4  
MEKCSVGGLELTEQTPALLGNMAMATSLMDIGDSFGHPACPLVSRSRNSPVEDDDDDDDV  
VFIESIQPPSISAPAIADQRNFI FASSKNEKPQGNYSVIPSSRD LASQKGN ISETIVID  
DEEDIETNGGA EKSSCFIEWGLPGTKNKTNDLDFSTSSLSRSKTKTGV RPFNPGRMNVA  
GDLFQNGEFATHHSPDSWISQSASFPSNQKQPGVDSLSPVALLRKQNFQPTAQQQLTKPA  
KITCANCKKPLQKGQTAYQRKGS AHLFCSTTCLSSFSHKRTQNTRSIICKKDASTKKANV  
ILPVESSKS FQEFYSTCLSPCENNWLKGVFNKSRCTICSKLAEIRHEVSVNNVTHKL  
CSNHCFNKYRLANGLIMNCCEHCGEYMP SKSTGNNILVIGGQQKR FCCQSCINEYKQMM E  
TKSKKLTASENRKRN A FREENEKQLYGSSNTLLKKIEG IPEKKEKTSQLQLSVECGTDTL  
LIQENVNLPPSSTSTIADTFQEQL E EKNFEDSIVPVVLSADPGTWPRI LNIKQRDTLVEN  
VPPQVRNFNF PKDNTGRKFSEYYTRILPNGEKTTRSWLLYSTSKDSVFCLYCKLFGEGK  
NQLKNENGCKDWQHLSHILSKHEESEMHVNNSVKYSKLSKSDLKKNKAIDAAEHRLYEN EK  
NDGVLLLYT

>sp|Q8IYN0|ZN100\_HUMAN Zinc finger protein 100 OS=Homo sapiens GN=ZNF100 PE=2 SV=2  
MDDPRYGMCP LKGASGCPGAERSLLVQSYFEKGPLTFRDVAIEFSLEEWQCLDSAQQGLY  
RKVMLENYRNLVFLAGIALTKPDLITCLEQGKEPWN IKRHEMVAKPPVICSHFPQDLWAE  
QDIKDSFQEAILKKYGYGHDNLQLQKGCKSVDECKVHKEHDNKL NQCLITTQSNIFQCD  
PSAKVFHTFSNSNRHKIRHTRKKPFKCKKCEKSFCMLLHLTQH KRFHITENS YQCKDCGK  
AFNWFSTLTTHRR IHTGEKPYKCEECGAFNRSSHLTTHKI IHTGEKPYRCEECGAFNR

SSHLTTHKRIHTGVKPYKCTECGKAFNRSSHLTTHRIIHTGEKPYKCEECGKAFNQSSLT  
TTHKITHAGEKPYKCEECGKAFYRFSYLTKHKTSHTEKPYKCEECGKGFNWSSALTKHK  
RIHTGEKPYKCEECGKAFNESSNLTHKMIHTGEKPYKCECGKAFNRSSQLTAHKMIHT  
GEKPYKCEECGKAFNRSSLTTKHKITHTGEKSYKWEECGKDFNQSLSLIKQNNSYWRETL  
QM

>sp|Q9H2Y7|ZN106\_HUMAN Zinc finger protein 106 OS=Homo sapiens GN=ZNF106 PE=1 SV=1  
MPVGRIECPSSPSFPRDISHECRVCGVTEVGLSAYAKHISGQLHKDNVDAQEREDDGKGE  
EEEEDYFDKELIQLIKRKEQSRQDEPSNSNQEINSDDRRPQWRREDRIPYQDRESYSQP  
AWHHRGPPQRDWKEKDFNTRKNSFPHSLRNGGGRGRSGWHKGVAGGSSTWFHNHSN  
SGGGWLSNSGAVDWNHNGTGRNSSWLSEGTGGFSSWHMNSNGNWKSSVRSTNNWNYSGP  
GDKFQPGNRNNSNCQMEDMTMLWNKSNKSNKYSHDRYNWQRQENDKLGTVATYRGPSEG  
FTSDKFPSEGLLDNFEEQLESQTTKQADTATSKVSGKNGSAAAREKPRRWTPYPSQKTLDL  
QSGLKDITGNKSEMIEKPLDFSLITGTGIEPQTDETRNSPTQKTQKEIHTGSLNHKASS  
DSAASFEVVRQCPTAEKPEQEHTPNKMPSLKSPLLPCPATKSLSQKQDPKNISKNTKTNF  
FSPGEHSNPSNKPVEDNHGPYISKLRSSCPHVLKGNKSTFGSQKQSGDNLNDTLRKAKE  
VLQCHESLQNPLSTSKSTRNYAKASRNVEESEKGLKIEFQVHALEDESDGETSDTEKH  
GTKIGTLGSATTELLSGSTRTADEKEEDRILKTSRELSTSPCNPIVRQKESELQMTSAA  
SPHPGLLLDLKTSLEDAQVDDSIKSHVSYETEGFESASLDAELQKSDISQPSGPLPELS  
KLGFPASLQRDLTRHISLKSKTGVHLEPNLNSARRIRNISGHRKSETEKESGLKPTLRQ  
ILNASRRNVNWEQVIQQVTKKKQELGKGLPRFGIEMVPLVQNEQEALDLDGEPDLSLEG  
FQWEGVSISSSPGLARKRSLSESSVIMDRAPSVYSFFSEEGTGKENEPQQMVSPNSLRA  
GQSQKATMHLKQEVTPRAASLRTGERAENVATQRRHSAQLSSDHI IPLMHLAKDLNSQER  
SIPPSNENQNSQESNGEGNCLSSASSALAISSSLADAATDSSTSGAEQNDGQSIRKKRRA  
TGDGSSPELPSLERKNKRRKIKGKKERSQVDQLLNISLREEELSKSLQCMDNNLLQARAA  
LQTAYVEVQRLLMLKQQITMEMSALRTHRIQILQGLQETYEPSEHPDQVPCSLTRERRNS  
RSQTSIDAALLPTFPFLFLEPPSSHVSPSPTGASLQITTSPTFQTHGSVPAPDSSVQIK  
QEPMSPEQDENVNAVPPSSACNVSKELLEANREISDSCPVPVITARLSLPESTESFHEP  
SQELKFSVEQRNTRNRENSPSSQSAGLSSINKEGEEPTKNGSGSEACTSSFLRLSFASET  
PLEKEPHSPADQPEQQAESTL TSAETRGSKKKKKLRKKKSLRAAHVPENSDEQDVLTVK  
PVRKVKAGKLIKGGKVTTSTWEDSRTGREQESVRDEPDSDSSLEVLEIPNPQLEVVAIDS  
SESGEKEPDSPSKKDIWNSTEQNPLETSRSGCDEVSSSTSEIGTRYKDGIPVSAETQTVI  
SSIKGSKNSSEISSEPGDDDEPTEGSFEGHQA AVNAIQIFGNLLYTCSADKTVRVYNLVS  
RKCIGVFEGHTSKVNCLLVTTQTSCKNAALYTGSSDHTIRCYNVKSRECVEQLQLEDRVLC  
LHSRWRLIYAGLANGTVVTFNIKNNKRLIEFECHGPRAVSCLATAQEGARKLLVVGSYDC  
TISVRDARNGLLRLTLEGHSTILCMKVNDLVFSGSSDQSVHAHNIHTGELVRIYKGNH  
HAVTVVNILGKVMVTACLDKFRVRYELQSHDRLQVYGGHKDMIMCMTIHKSMIYTGCDYG  
SIQAVRLNLMQNYRCWWHGCSLIFGVVDHLKQHLLTDHTNPNFQTLKCRWKNCDFFTAR  
KGSKQDAAGHIERHAEDDSKIDS

>sp|Q03924|ZN117\_HUMAN Zinc finger protein 117 OS=Homo sapiens GN=ZNF117 PE=2 SV=5  
MKRHEMVAKHLVMFYFFAHLWPEQNIRDSFQKVTLLRRYRKCGYENLQLRKGCXSVVECK  
QHKGDYSGLNQCLKTTLISKIFQCNKYVEVFHKISNSNRHKMRHTENKHFCKECCRKTFM  
LSHLTQHKRIQTRVNFYKCEAYGRAFNWSSLTNKHKRIHTGEKPYKCECGKAFNQTSHL  
IRHKRIHTEEKPYKCEECGKAFNQSSLTTHNIHTGEIPYKCEKCVAFNQASKLTEHK  
LIHTGEKRYECEECGKAFNRSSKLTEHKYIHTGEKLYKCEECGKAFNQSSLTTHKRIHS

GEKPYKCEECGKAFKQFSNLTDHKKIHTGEKPYKCEECGKAFNQLSNLTRHKVIHTGEKP  
YKCGECGKAFNQSSALNTHKI IHTGENPHKCRESGKVHFLSSKLSTCKKIHTGEKLYKCE  
ECGKAFNRSSTLIGHKRIHTGEKPYKCEECGKAFNQSSLTTHKI IHTEEKQYKCDECGK  
AST

>sp|P58317|ZN121\_HUMAN Zinc finger protein 121 OS=Homo sapiens GN=ZNF121 PE=3 SV=2  
MAEIHNGGELCDFMENGEIFSEHSCLNAHMGTEGTGDTYDCDEYGENFPMLHNSAPAGET  
LSVLNQCRKAFSLPPNVHQRTWIGDKSFEYSDCEEAFVDQSHLQANRITHNGETLYEQKQ  
CGRAFTYSTSHAVSVKMHTVEKPYECKECGKFFRYSSYLNSHMRTHTGEKPYECKECGKC  
FTVSSHLVEHVRIHTGEKPYQCKEKGRAFAGRSGLTKHVRIHTGEKPYECNECGKAYNRF  
YLLTEHFKTHTEKPFECKVCGKSFRSSSCLKNHFRIHTGIKPYCKECKGAFTVSSSLH  
NHVKIHTGEKPYECKDCGKAFATSSQLIEHIRTHTGEKPYICECKGKTFRASSHLQKHVR  
IHTGEKPYICNECGKAYNRFYLLTKHLKTH

>sp|Q15973|ZN124\_HUMAN Zinc finger protein 124 OS=Homo sapiens GN=ZNF124 PE=1 SV=2  
MSGHPGSWEMNSVAFEDVAVNFTQEEWALLDPSQKNLYRDVMQETFRNLASIGNKGEDQS  
IEDQYKNSSRNLRHI ISHSGNNPYGCEECGKKPCTCKQCQKTSLSVTRVHRDVMHTGNG  
HYGCTICEKVFNISSSQIHQRNHTGEKPYECMECGKALGFSRSLNRHKRIHTGEKRYEC  
KQCGKAFSRSSHLRDHERHTHTGEKPYECKHCGKAFRYSNCLHYHERHTHTGEKPYVCMCEG  
KAFSCLSSLQGHIAHAGEEPPYCKQCGKAFRYASSLQKHEKTHIAQKPYYCNCNGKGF  
CSSSLRDHERHTHTGEKPYECQCKGKAFSRASTLWKHKKTHTGEKPYCKCKM

>sp|P52743|ZN137\_HUMAN Putative zinc finger protein 137 OS=Homo sapiens GN=ZNF137P PE=5  
SV=1  
MNVARFLVEKHTLHVIIDFILSKVSNQQSNLAQHQRVYTGEKPYKCNWKGKALSGKSSLF  
YHQA IHGVGKLCNCNDCHKVFSNATTIANHWRIHNEDRSYKCNKCGKIFRHSYLA VYQR  
THTGEKPYKYHDCGVFSQASSYAKHRIHTGEKPHKCDDCGKVLTSRSHLIRHQRIHTG  
QKSYKCLKCGKVFSLWALHAHQKIHF

>sp|P52746|ZN142\_HUMAN Zinc finger protein 142 OS=Homo sapiens GN=ZNF142 PE=1 SV=4  
MTDPLLDSPASSTGEMDGLCEPELLIPPLSNRGILGPVQSPCPSRDPAPIPTPGCLL  
VEATATEEGPGNMEIIVETVAGTLTPGAPGETPAPKLPPGEREPSQEAGTPLPGQETAEE  
ENVEKEEKSDTQKDSQKAVDKGGAQRLEGDVVSGETSLFKTHMCECKRCFKKRTHLVE  
HLHLHFPDPSLQCPNCQKFFTSKSKLKTHLLRELGEKAHHCPCHYSAVERNALNRHMAS  
MHEDISNFYSDTYACPVCREEFRLSQALKEHLKSHTAAAAAEPLPLRCFQEGCSYAAPDR  
KAFIKHLKETHGVRAVECRHHSCEPMLFATAEAMEAHHKSHYAFHCPHCFACSNKHLFRK  
HKKQGHGSEELRCTFCPFATFNPVAYQDHVGKMHAEKIHQCPECNFATAHKRVLIRHM  
LLHTGEKPHKCELCDFTCRDVSYLSKHM LTHSNTKDYMCTECGYVTWKHYLRVHMRKHA  
GDLRYQCNCQSYRCHRADQLSSHKL RHQGKSLMCEVCAFA CKRYELQKHMASQHHPGTP  
APLYPCHYCSYQSRHKQAVLSHENCKHTRLREFHCALCDYRTFSNTLLFHKRKAHGYVP  
GDQAWQLRYASQEPEGAMQGTPPPDSEPSNQLSARPEGPGHEPGTVVDPSLDQALPEMS  
EEVNTGRQEGSEAPHGGDLGGSPSPAEVEEGSCTLHLEALGVELESVTEPPLEEVTTETAP  
MEFRPLGLEPGDGLGPELSSFEIGTSDLSAEENPLEKPVSEPSTNPPSLEEAPNNWV  
GTFKTTTPAETAPLPLPESESLKALRRQDKEQAEALVLEGRVQMVVIQGEGRAFRCPH  
CPFITRREKALNLHSRTGCQGRREPLLCPECGASFQQRGLSTHLLKKCPVLLRKNKGLP  
RPDSP IPLQPVLPGTQASEDTESGKPPASQEAELLLPKDAPLELPREPEETEEPLATVS  
GSPVPPAGNSLPTEAPKKHCFDPVPPAGNSSPTEAPKKHHLDPVPPAGNSSPTEALKKHR  
FEQGKFHCNSCPFLCSRLSSITSHVAEGCRGGRGGGKRGTPQTQPDVSPLSNGDSAPPK

NGSTESSSGDGTVLVQKQKGARFSCPTCPFSCQQERALRTHQIRGCPLEESGELHCSLC  
PFTAPAATALRLHQKRRHPTAAPARGPRPHLQCGDCGFTCKQSRMQQHRRLKHEGVKPH  
QCPFCDFSTTRRYRLEAHQSRHTGIGRIPCSSCPQTFGTNSKLRLHRLRVHDKTPTHFCP  
LCDYSGYLRHDITRHNVSCHQGTAFACSQCEAQFSSETALKQHALRRHPEPAQAPAGSP  
AETTEGPLHCSRCGLLCPSPASLRGHTRKQHPRLCEGACQEAFFPSRLALDEHRRQQHFHSH  
RCQLCDFAARERVLVKHYLEQHEETSAAVAASDGDGDAGQPPLHCPFCDFTCRHQLVLD  
HHVKGHGGTRLKYCTDCAYSTKNRQKITWHSRIHTGEKPYHCHLCPYACADPSRLKYHMR  
IHKEERKYLCEPCGYCKWVNQLKYHMTKHTGLKPYQCPECEYCTNRADALRVHQETRHR  
EARAFMCEQCGKAFKTRFLRLTHLRKHSEAKPYVCNVCHRAFRWAAGLRHHALTHTDRHP  
FFCRLCNYKAKQKFQVVKHVRRHHPDQADPNQGVGKDPTTPTVHLHDVQLEDPSPPAPAA  
PHTGPEG

>sp|Q99676|ZN184\_HUMAN Zinc finger protein 184 OS=Homo sapiens GN=ZNF184 PE=1 SV=4

MEDLSSPDSTLLQGGHNLSSASFQEAVTFKDIVDFTQEEWKQLDPGQRDLFRDVTLEN  
YTHLVSIGLQVSKPDVISQLEQGTEPWIMEPSIPVGTCADWETRENSVSAPEPDISEEE  
LSPEVIVEKHKRDDSWSNNLLESWEYEGSLERQQANQQTLPKEIKVTEKTIPSWEKGPVN  
NEFGKSVNVSSNLVTQEPSPEETSTKRSIKQNSNPVKKEKSCCKNECGKAFSYCSALIRH  
QRTHTGEKPYKCNECEKAFSRSENLINHQRIHTGDKPYKCDQCGKGFIEGPSLTQHQRH  
TGEKPYKDECGKAFSQRTHLVQHQRHTGEKPYTCNECGKAFSQRGHFMEHQKIHTGEK  
PFKCECDKTFTRSTHLTQHQRHTGEKTYKCNECGKAFNGPSTFIRHHMIHTGEKPYEC  
NECGKAFSQHSNLTQHQRHTGEKPYDCAECGSFSYWSLAQHLKIHTGEKPYKCNECG  
KAFSYCSSLTQHRRHTREKPFECSECGKAFSYLSNLTQHQRHTGEKAYECKEKGKAFI  
RSSSLAKHERHTGEKPYQCCECGKTFSYGSSLIQHRKIHTGERPYKCNECGRAFNNI  
LTQHQRHTGAKPYECAECGKAFRHCSSLAQHQRHTTEKPYQCCKEKFSSSHTLQH  
QRIHTGEKPYKCNECDKAFSRSTHLTEHQNTHTGEKPYNCNECRKTFSSQSTYLIQHQRH  
SGEKPFGCNDCGKSFYRSALNKHQRLHPGI

>sp|O14709|ZN197\_HUMAN Zinc finger protein 197 OS=Homo sapiens GN=ZNF197 PE=2 SV=1

MTRENVAHNALRQGLVKGKDDTWKGTSFQGSSSVWETSHLHFRQLRYHETSGPQEAL  
SRLRELRRWLRLPEARTKAQILELLVLEQFLSILPGEIRTWVQLHHPGSGEEAVALVEEL  
QKDLGPAIQVPVLVKDQDTLQKVVSAPGTTLPVPLPGSHIAAIEICPHPTDLVAFNLQD  
PQHDSPEASALSQEEENPRNQLMALMLLTAQPQELVMFEEVSVCFTSEEWACLGPIQRA  
LYWDVMLENYGNVTSLEWETMTENEEVTSKPSSSQRADSHKGTSKRLQGSVPQVLDIEEE  
CEWQVLASQWGNETDERADTVKKVSLCERDKKRTPEKQGGKWKELGDSLTFGSAISES  
LIGTEGKKFYKCDMCKHFNKISHLINHRRHTGEKPHKCKEKGKFIQRSSLLMHLRNH  
SGEKPYPKCNECGKAFSQSAYLLNHQRHTGEKPYKCKEKGKGFYRHSGLIHLRRHSGER  
PYKCNECGKVFSQAYLIDHQRHLHGEEPYKCNKQKAFILKKSILHQRHSGEKPYPKC  
DECGKTFQAQTTYLIDHQRHLHSAENPYKCKEKGKVFIRSKSLLHQRVHTEKKTFGCKKCG  
KIFSSKSNFIDHKRMHSREKPYKTECGKAFTQSAYLFDHQRHLHNGEKPYPKCNECGKVF  
LKKSLILHQRHFTGENLYECKDCGKVFGSNRNLIDHERLHNGEKPYPCECGKTFIMSKS  
FMVHQLHTQEKAYKCEDCGKAFSYNSSLLVHRRHTGEKPFECSECGRAFSSNRNLIEH  
KRIHSGEKPYPCECGKCFILKKSILGHQRHTREKSYKNCDCGKVFSYRSNLIAHQRH  
TGEKPYACSECGKGFYNNRNLIEHQRHSGEKTIECHVCRKVLTSNRNLMVHQRHTGEK  
PYKCNECGKDFSQKNLVVHQRMHTGEKPYECDKCRKSFTSKRNLVGHQRHTGEKPYGC  
NDCSKVFRQRKNLTVHQKIHTDEKPCEDVSEKEFSQTSNLHLQKQKIHTIEEFSWLQNTN  
ESKIEIQKI

>sp|043670|ZN207\_HUMAN BUB3-interacting and GLEBS motif-containing protein ZNF207 OS=Homo sapiens GN=ZNF207 PE=1 SV=1

MGRKKKKQLKPWCWYCNRFDDDEKILIQHQKAKHFKCHICHKKLYTGPGLAIHCMQVHKE  
TIDAVPNAIPGRTDIELEIYGMETPEKMDERRRLEQKTQESQKKKQDDSDYDDDD  
SAASTSFQPPVQPPQGGYIPMAQPLPPVPGAPGMPPGIPPLMPGVPLMPGMPPVMPG  
MPPGMMPMGGMPPGPGIPPLMPGMPPGMPVPRPGIPPMTQAQAVSAPGILNRPPAPT  
ATVPAPQPPVTKPLFPSAGQMGPVTSSSTASSNESLSASSKALFPSTAQAQAAVQGPV  
GTDFKPLNSTPATTEPPKPTFPAYTQSTASTTSTNSTAAKPAASITSKPATLTTTSAT  
SKLIHPDEDISLEERRAQLPKYQRNLPRPGQAPIGNPPVGPIGGMPPQPGIPQQQMRP  
PMPHGGYGGHHQMPGYLPGAMPPYGGPPMPPYQGGPPRPPMGMPPVMSQGGRY

>sp|Q8NDW4|ZN248\_HUMAN Zinc finger protein 248 OS=Homo sapiens GN=ZNF248 PE=2 SV=1

MNKSQEQVSFKDVCVDFTEEWYLLDPAQKILYRDVILENYSNLVSVGYCITKPEVIFKI  
EQGEWPWILEKGFPSQCHPERKWKVDDVLESSQENEDDHFWEELFHNNKTVSVENGDRGS  
KTFNLGTDVSLRNYPYKICDSCENLNKNISGLIISKKNCSRKKPDEFNVCEKLLDIRH  
EKIPIGESYKYDQKRNAINYHQDLSQPSFGQSFEYSKNGQGFHDEAAFFTNRKSQIGET  
VCKYNECGRTFIESLKLNISQRPHLEMEPYGCSICGKSFCMNLRFHQALTKDNPYEYN  
EYGEIFCDNSAFIIHQGAYTRKILREYKVSDEKTSALLKHQIVHMGKSYDYNENGSN  
FSKKSHLTQLRRAHTGEKTFECGEGKTFWEKSNLTQHQRTHTEKPYECTECGKAFQK  
PHLTNHQRTHTEKPYECKQCGKTFVCVSNLTHQRTHTEKPYECNACGKSFCHRSALT  
VHQRTHTEKPFICNECGKSFVCVSNLIVHQRTHTEKPYKNECGKTFCEKSALTKHQR  
THTEKPYECNACGKTFQRSVLTQKHQRIHTRVKALSTS

>sp|P15622|ZN250\_HUMAN Zinc finger protein 250 OS=Homo sapiens GN=ZNF250 PE=1 SV=3

MAAARLLPVPAGPQLSFQAKLTFEDVAVLLSQDEWDRLCPAQRGLYRNVMMETYGNVVS  
LGLPGSKPDIISQLERGEDPWVLDKGAQKSLGLSDYSDNLKYDHTTACTQQDSLSCPW  
ECETKGESQNTDLSKPLISEQTIVLGTPLGRIDQENNETKQSFCLSPNSVDHREVQVL  
SQSMPLTPHQAVPSGERPYMCVECGKCFGRSSHLQHQRHTGEKPYVCSVCGKAFSQSS  
VLSKHRRHTGEKPYECNECGKAFRVSSDLAQHHKIHTGEKPECECRKAFTQLSHLIQ  
HQRHTGERPYVCPCLGKAFNHSTVLRSHQRVHTGEKPHRCNECGKTFSVKRTLLQHQRHT  
HTGEKPYTCSECGKAFSDRSVLQHHNVHTGEKPYECSECGKTFSHRSTLMNHERIHTTE  
KPYACYECGKAFVQSHSLIQHQRVHTGEKPYVCGEGHAFSARRSLIHERHTGEKPFQ  
CTECGKAFSLKATLIVHLRTHTEKPYECNCGKAFSQYSVLQHQRHTGEKPYECGEC  
GRAFQHGHLIQHQKVHRKL

>sp|O14978|ZN263\_HUMAN Zinc finger protein 263 OS=Homo sapiens GN=ZNF263 PE=1 SV=2

MASGPGSQEREGLLIVKLEEDCAWSQELPPDPGPSPEASHLRFRRFRFQEAAGPREALS  
RLQELCHGWLPEMRTKEQILELLVLEQFLTILPQEIQSRVQELHPESGEEAVTLVEDMQ  
RELGRLRQQVTNHGRGTEVLLPEPLPLETARESPSFKLEPMETERSPGPRLQELLGPSPQ  
RDPQAVKERALSAPWLSLFPPEGNMEDKEMTGQPLPESLEDVAMYISQEEWGHQDPSKRA  
LSRDTVQESYENVDSLESHIPSQEVPGTQVGGGKLWDPSVQSCKEGLSPRGPAPGEEKF  
ENLEGVPSVCSENIHPQVLLPDQARGEVPWSPELGRPHDRSQGDWAPPEGGMEQALAGA  
SSGRELGRPKEQLPKKLHLCLCGKNFSNNSNLIRHQRHIAAERLCMGVDCTEIFGGNPR  
FLSLHRAHLGEEAHKCLECGKCFSQNTHLTRHQRTHTEKPYQCNICGKCFSCNSNLHRH  
QRTHTEKPYKPECGEIFAHSNLLRHQRHTGERPYKPECGKSFSSHLVIHERTH  
ERERLYPFSECEAVSDSTPFLTNHGAHKAEEKLFECLTCGKSFRQGMHLTRHQRTHTE  
KPYKCTLCGENFSHRSNLIRHQRHTGEKPYTCHEGDSFSHSSNRIHLRTHTEGERPYK

CSECGESFSRSSRLMSHQRTHTG

>sp|Q14587|ZN268\_HUMAN Zinc finger protein 268 OS=Homo sapiens GN=ZNF268 PE=1 SV=2  
MATRVRTASIWVPLQERNSSWDRIRKLQGQESILGQGTPLQLPGTPRQKQKSRRIEK  
VLEWLFISQEQPKITKSWGPLSFMDVFVDFTWEEWQLLDPAQKCLYRSVMLENYSNLVSL  
GYQHTKPDIIFKLEQGEELCMVQAQVPNQTCPNTVWKIDDLMDWHQENKDKLGSTAKSFE  
CTTFGKLCLLSTKYLSRQKPHKCGTHGKSLKYIDFTSDYARNNPNGFQVHGKSFFHSHKHE  
QTVIGIKYCIESGKTVNKKSQLMCQMYMGEKPFGCSCCEKAFSSKSYLLVHQQTAE  
EKPYGCNECGKDFSSKSYLIVHQRIHTGEKLHECSECRKTFSFHSQVLIVHQRIHTGENPY  
ECCECGKVFSRKDQLVSHQKTHSGQKPYVCNECGKAFGLKSQLI IHERIHTGEKPYECNE  
CQKAFNTKSNLMVHQRTHTGEKPYVCSDCGKAFTFKSQLIVHGGIHTGVKPYGCIQCGKG  
FSLKSQLIIVHQRSHTGMKPYVCNECGKAFRSKSYLI IHTRTHTGEKLHECNCGKAFFSK  
SQLI IHQRIHTGENPYECHECGKAFRSKYQLISHQRTHAGEKPYECTDCGKAFGLKSQLI  
IHQRTHTGEKPFECSECQKAFNTKSNLIVHQRTHTGEKPYSCNECGKAFTFKSQLIVHKG  
VHTGVKPYGCSQCAKTFSLKSQLIIVHQRSHTGVKPYGCSECGKAFRSKSYLI IHMRTHTG  
EKPHECRECGKSFNSQLIVHQRIHTGENPYECSECGKAFNRKDQLISHQRTHAGEKPY  
GCSECGKAFSSKSYLI IHMRTHSGEKPYECNECGKAFIWKSLIIVHERTHAGVNPYKCSQ  
CEKSFSGKLRLLVHQRMTREKPYECSECGKAFIRNSQLIVHQRTHSGEKPYGCNECGKT  
FSQKSILSAHQRTHTGEKPKCTECGKAFCKWSQLIMHQRTHTVDDKH

>sp|Q9UDV7|ZN282\_HUMAN Zinc finger protein 282 OS=Homo sapiens GN=ZNF282 PE=1 SV=3  
MQFVSTRPQPQQLGIQGLDGSWSWAQALPPEEVCHQEPALRGEMAEGMPPMQAQEWD  
MDARRPMPFQFPFDPRAVPFDRMMREPQLPTAEISLWTVVAAIQAVERKVDAQASQLL  
NLEGRGTAEKKLADCEKTAVEFGNHMESKWAVLGTLLEQYGLLQRRLENLENLLRNRNF  
WVLRPLPGSKGEAPKVPVTFVDIAVYFSEDEWKNLDEWQKELYNNLVKENYKTLMSLDAE  
GSVPKPDAPVQAEPREEPCVWEQRHPEEREIPMDPEAGAEPLVPAQDASSQVKREDTLCV  
RGQRGLEERAIPTESITDSPISAQDLLSRIKQEEHCVCWDQQLADRDIPDPNSELIS  
AHDILSWIKQEEQYPWPGRDSMDGELGLDGSFSDSLLMVKNPPAPPQPQPQPQPQPQ  
LQSQPQPQSLPPIAENPGPPSRGLLDDGFQVLPGERGSGEAPPGGDRSTGGGGGDGG  
GGGGGAEGTAGGGGCGSCCPGGLRRSLLLHGARSKPYSCPECGKSFGVRKSLI IHHRSH  
TKERPYEACEKSFNCHSGLIRHQMTHRGERPYKCECEKTYSRKEHLQNHQRLHTGER  
PFQCALCGKSFIRKQNLKHKRIHTGERPYTCGECGKSFRYKESLKDHLRVHSGGPGPGA  
PRQLPPPPERD

>sp|Q8WUU4|ZN296\_HUMAN Zinc finger protein 296 OS=Homo sapiens GN=ZNF296 PE=2 SV=1  
MSRRKAGSAPRRVEPAPAANPDDEMEMQDLVIELKPEPDAQPQQAPRLGPFSPKEVSSAG  
RFGGEPHHSPGMPAGAALLALGPRNPWTLWTLPTPNYPDRQPWTDKHPDLLTCGRCLQT  
FPLEAITAFMDHKKLGCQLFRGPSRGQGSEREELKALSCLRCGKQFTVAWKLLRHAQWDH  
GLSIYQTESEAPEAPLLGLAEVAAAVSAVVGPAAEAKSPRASGSLTRRSPTCPVCKKTL  
SSFSNLKVHMRSHTERPYACDQCPYACAQSSKLNHRHKKTHRQVPPQSPLMADTSQEQAS  
AAPPEPAVHAAAPTSTLPCSGGEGAGAAATAGVQEPGAPGSGAQAGPGGDTWGAIITTEQR  
TDPANSQKASPKKMPKSGGKSRGPGGSCEFCKHFTNSSNLTVHRRSHTGERPYTCEFCN  
YACAQSSKLNRRHRMHGMPGSTRFECPHCHVPFGLRATLDKHLRQKHPEAAGEA

>sp|Q5JNZ3|ZN311\_HUMAN Zinc finger protein 311 OS=Homo sapiens GN=ZNF311 PE=2 SV=2  
MQEVLLDESSGPPSLLWTRQDTQLPQESALLPAPYPAFTKDGSGGNLPQADITLMSQA  
QESVTFEDVAVNFTNREWQCLTYAQRHLYKDVMLENYGNMVS LGFPFPKPLISHLEREV  
DPCVQDPQDRESLSCSYPVSA DKMWPENEKASSQQEIFENG EAYWMKFNSLLKVDSRDPK

VREVCVQDVKLENQWETSIREKLREEKEGSEEVTCCKGKNQKVL SKNLNPN SKHSQCNKV  
LIAQKLHECARCGKNFSWHS DLILHEQIHSGEKPHVCNECGKAFKTRNQLSMHRI IHTGE  
KPFNCTQCGKAFNSRSALCRHKKTHSGEKPHECRDCGKAFKTRNRLCMHQLIHTGEKPYK  
CNCCGKAFQFKHSLTIHGRIHTGEKPYECEECGKA FSGSSDLTKHIRIHTGERPYECSKC  
GRAFSRSSDLSKHKRIHTREKHYGCPQCGKDFSIKAELTKHRRIHTEEKRYRCEECGKAF  
RHNCRRRAHEREHTGEKPYQCRDCGKTFQDKHCLTIHQRIHTGEKPYKLECGKA FSGKS  
NLTNHRRIHTEKPHKCEVCGMAFHSSVLRQHKRIHTGEKPYTCSECGTSFRQGSALIG  
HKRVHTGEKPYECEECGKA FRVSSNLTGHKRRKHQVWSTHELDGSRKSLSPVTVSQT SVV  
SIL TSA

>sp|Q9P2F9|ZNF319\_HUMAN Zinc finger protein 319 OS=Homo sapiens GN=ZNF319 PE=1 SV=2

MSESWQQPPQTQPQQPQPQHHAEPPALAEHTLPPGTAENPLGCAVYGILLQPD PGL  
QPPQHAFLQAAGEPGPKCGVCGHDLAHLSSPHEHQCLAGHDRSFQCTQCLKIFHQATDLL  
EHQCVQAEQKPFVCGVCKMGFSLTSLAQHHSSHGLVKCSICEKTYKPAEAAEPATTA  
PSLPAAPAPSTVTPAEQADKPYSCPICQKPFKHLSELSRHERIHTGEKPYKCTLCDKSFS  
QSSHLVHHKRTHSSERP YKCAVCEKTFKHRSHLVRHMYAHSGEHHLFRCNVCELHFKESS  
ELLQHPCTPSGERPFRGECQKAFKRPSDLRQHERTHSAERPFKCDLCPMGFKQYALMR  
HRRTHKTEEPFKGLCEKGFQPSHLLYHQHVHTLET LFKCPVCQKGFQSAELLRHKCL  
PGAERPFKCPVCNKAYKRASALQKHLAHCAAAEKPLRCTLCERRFFSSSEFVQHRCDP  
AREKPLKCPDCEKRFKYASDLQRHRRVHTGEKPYKCPNCDKAFKQREHLNKHQGVHAREQ  
QFKCVWCGERFLDVALLQEHSQAHSAAAAAEGAYQVAACLP

>sp|Q9HCZ1|ZNF334\_HUMAN Zinc finger protein 334 OS=Homo sapiens GN=ZNF334 PE=1 SV=2

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KLEQGEEPWIVEEFSNQNPDIIDDALEKNKEIQDKHLTQT VFFSNKTLITERENVFGKTL  
NLGMNSVPSRKMPYKCNPGGSLKTNSEVIVAKKSKENRKIPDGYSFGKHEKSHLGMKK  
YRYNPMRKASNQENLILHQNIQILKQPF DYNKCGKTFFKRAILITQKGRQTERKPNECN  
ECRKTFSKRSTLIVHQRIHTGEKPYVCSDCRKTFRVKTSLTRHRRIHTEKPYECSECRK  
TFIDKSALIVHQIHGGEKSYECNECGKTFFRKSALAEHFRSHTGEKPYECKE CNAFSK  
KSYLVVHQRTHRGEKPNECKEKGKTFFCQSALTAHQRIHTGEKPYECSECKTFFCQSAL  
NVHRSHTGEKPYECSQCGKFLCTKSALIAHQITHRGKKSIECNECGKFFCHKSTLTIHQ  
RTHTGEKHGVFNKCGRISIVKSNCSQCKRMNTKENLYECSEHGHAVSKNSHLIVHQRTIW  
ERP YECNECGRTYCRKSALTHHQRTHTGQRPYECNECGKTFCKFSFVEHQRTHTGEKPY  
ECNECGKSFCHKSAFRVHRRIHTEKPYECNQCGKTYRRLWLT EHQKIHTGEKPYECNK  
CEKTRHKSNFLHQQSHKE

>sp|Q06730|ZNF33A\_HUMAN Zinc finger protein 33A OS=Homo sapiens GN=ZNF33A PE=1 SV=3

MNKVEQKSQESVSFKDVTVGFTQEEWQHLDPSQRALYRDVMLENYSNLVSVGYCVHKPEV  
IFRLQQGEEPWKQEEEFPSQSPVWTADHLKERSQENQSKHLWEVVFINNEMLTKEQGDV  
IGIPFNVDVSSFPSRKMFQCDCSGMSFNTVSELVISKINYL GKKSDEFNACGKLLLNK  
HDEHTQEKNV LKNRNTLSHHEETLQHEKIQTLEHNFEYSICQETLLEKAVFNTQKREN  
AEENNC DYNEFGRTLCDSSLLFHQISPSRDNH YEFSDCEKFLCVKSTLSKPHGVMKH Y  
DCGESGNNFRRLCLSHLQKGDGKEKHFE CNECGKA FWEKSHLTRHQRVHTGQKPFQCNE  
CEKAFWDKSNLTKHQRSHTGEKPFECNECGKA FSHKSALT LHQRTHTGEKPYQCNACGKT  
FCQKSDLT KHQRTHTGLKPYECYECGKSFRVTSHLKVHQRTHTGEKPFECLECGKSFSEK  
SNLTQHQR IHIHGKSYECNACGKTFYHKSLLTRHQI IHTGWKPYECYECGKTFCLKSDLT  
VHQRTHTGQKPFACPECGKFFSHKSTLSQHYRTHTGEKPYECHECGKIFYNKSYLTKHNR

THTGEKPYECNECGKAFYQKSQTLQHQRHIGEKPYKCNECGKAFCHKSA LIVHQRTHQT  
EKPYKCNECGKSFCVKSGLI FHERKHTGEKPYECNECGKFFRHKSSLTVHHRAHTGEKSC  
QCNECGKIFYRKSELAQHQRSHTEKPYECNTRKTFSSQKSNLIVHQR RHIGENLMNEMD  
IRNFQPQVSLHNASEYSHCGESPDDILNVQ

>sp|Q8TF68|ZN384\_HUMAN Zinc finger protein 384 OS=Homo sapiens GN=ZNF384 PE=1 SV=2  
MEESHFN SNPYFWPSIPTVSGQIENTMFINKMKDQLLPEKGCGLAPPHYPTLLTVPASVS  
LPSGISMDTESKSDQLTPHSQASVTQ NITVVPVPSTGLMTAGVSCSQRWRREGSQSRGPG  
LVITSPSGSLVTTASSAQTFPI SAPMIVSALPPGSQALQVVPDL SKKVASTLTEEGGGGG  
GGGGSVAPKPPRGRKKRML ESGLPEMNDPYVLS PEDDDDHQKD GKYRCRMC SLTFYSK  
SEM QIHSKSH TETKPHKCPHCSKTFANSSYLAQHIRIHSGAKPYSCNFCEKSFRQLSHLQ  
QHTRIHSKMHTETIKPHKCPHCSKTFANTS YLAQHLRIHSGAKPYNCSYCQKAFRQLSHL  
QQHTRIHTGDRPYKCAHPGCEKAF TQLSNLQSHRRQH NKDKPFKCHNCHRAYTDAASLEV  
HLSTHTVKHAKVYTCTICSRAYTSETYLMKHM RKHNPPDLQQQVQAAAAA AQAQAQA  
QAQAQAQAQAQAQAQASQASQQQQQQQQQQQQQQQPPPHFQSPGAAPQGGGGGDSNPNP  
PPQCSFDLTPYKTA EHHKDI CLTVTTSTIQVEHLASS

>sp|Q9H8N7|ZN395\_HUMAN Zinc finger protein 395 OS=Homo sapiens GN=ZNF395 PE=1 SV=2  
MASVLSRRLLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQE QPKE  
VLKAPSTSGLQQVAFQPGQKVYVYGGQECTGLVEQHSWMEGQVT VWLLEQKLQVCCRVE  
EVWLAELQGCPQAPPLEPGAQALAYRPVSRNIDVPKRKSDAVEMDEMMAAMVLTSLSCS  
PVVQSPPGTEANFSAASRAACDPWKESGDISDSGSSTTSGHWSGSGVSTPSPHPQASPK  
YLGDAFGSPQTDHG FETDPDPFLLDEPAPRK RKN SVKVMYKCLWPNC GKVLRSIVGIKRH  
VKALHLGDTVDSDFKREEDFYYTEVQLKEESAAAAA AAGTPVPGTPTSEPAPTPSMT  
GLPLSALPPPLHKAQSSGPEHPGPESSLPSGALSKSAPGSFWHIQADHAYQALPSFQIPV  
SPHIYTSVSWAAAPSAACSLSPVRSRSLSFSEPPQAPAMKSHLIVTSP PRAQSGARKAR  
GEAKKCRKVYGIEHRDQWCTACRWKACQRFLD

>sp|Q09FC8|ZN415\_HUMAN Zinc finger protein 415 OS=Homo sapiens GN=ZNF415 PE=1 SV=2  
MPELYTEDFIQGCDVGELQEPGLPGVLSYVGAQERALDHRKPSTSSKKT KRVEIDQRCEN  
RLECNGAISAHCNLRLPDSNDSPASASRVAGITDL SRNCVIKELAPQ QEGNPGEVFHTVT  
LEQHEKHDIEEFCFREIKKKIHDFDCQWRDDERN CNKVTTAPKENLTCRRDQRDRRGIGN  
KSIKHQLGLSFLPHPHELQQFQAEGKIYECNHVEKSVNHGSSVSP PQIISSTIKTHVSNK  
YGTDFICSSLLTQE QKSCIREKPYRYIECDKALNHGSHMTVRQVSHS GEKGKCDLCGKV  
FSQKSNLARHWRVHTGEKPYKCNECDRSFSRNSCLALHRRVHTGEKPYKCYECDKVFSRN  
SCLALHQKTHIGEKPYTCKEKGAFSVRSTLTNHQVIHSGKKPYKCNECGKVFSQTSSLA  
THQRIHTGEKPYKCNECGKVFSQTSSLARHWRIHTGEKPYKCNECGKVFSYN SHLASHRR  
VHTGEKPYKCNECGKAFSVHSLTTHQVIHTGEKPYKCNCGKGFVHSSLTTHQVIHTG  
EKPYKCNECGKSFSVRPNLTRHQI IHTGKKPYKSDCGKSFSVRPNLFRHQI IHTKEKPY  
KRN

>sp|Q96HQ0|ZN419\_HUMAN Zinc finger protein 419 OS=Homo sapiens GN=ZNF419 PE=1 SV=2  
MAAAALRDPAQVPAADLLTDHEEGYVTFEDVAVYFSQE EWRLDDAQRLLYRNVMLENF  
TLLASLGLASSKTHEITQLESWEEPFMPAWEVVTSAIPRCWGHGAEEEAPEQIASVGLL  
SSNIQQHQKQHCGEKPLKRQEGRVPVLRSCVHLSEKSLQSREVGKALLISSGVLKHQVT  
HTGEKSHRSSKSREAFHAGKRHYKCECGKAFGQKYLLVQHQR LHAGKKTIECSECGKLF  
RDMSNLFIHQIVHTGERPYGCSNCGKSFSRNAHLIEHQRVHTGEKPFTCSECGKAFRHNS  
TLVQH HKIHTGVRPYECSECGKLSFNSSLMKHQRIHTGERPYKCECGKFYSHKSNLIK



HWRVHTGERPYKSCDCGKFFTQCSSLMQHQKVHTGEKPFKCNECGRFFRENSTLVRHQRV  
HTGAKPYECRECGKFFSQSSTLMQHRKVHIGEKPFKCNECGRLFRENSSLVKHQRVHTGA  
KPYECRECGKFFRHNSSLFKHRRHTGEMQ

>sp|Q96B54|ZN428\_HUMAN Zinc finger protein 428 OS=Homo sapiens GN=ZNF428 PE=1 SV=2  
MTETREPAETGGYASLEEDDEDLSPGPEHSSDSEYTLSEPDSEEEEEEEEEETDDPE  
YDPGYKVKQRLGGGRGGSRRAPRAAQPPAQPCQLCGRSPLGEAPPGTPPCRLCCPATAP  
QEAPAPEGRALGEEEEEPPRAGEGRPAGREEEEEEEEGTYHCTECEDSFDNLGELHGHF  
MLHARGEV

>sp|Q9C0F3|ZN436\_HUMAN Zinc finger protein 436 OS=Homo sapiens GN=ZNF436 PE=1 SV=2  
MAATLLMAGSQAPVTFEDMAMYL TREWRPLDAAQRDLYRDVMQENYGNVVSDFEIRSE  
NEVNPKEISEDVQFGTTSERPAENAEENPESEEGFESGDRSERQWGDLTAEWVSYPLQ  
PVTDLLVHKEVHTGIRYHICSHCGKAFSQISDLNRHQKTHTGDRPYKCYECGKFSRSSH  
LIHQQRTHTGERPYDCNECGKSFRSSHLIQHTIHTGEKPHKCNECGKSFCRLSHLIQH  
QRTHSGEKPYECECGKSFRSSHLAQHQRTHTGEKPYECNECGRGFSESDLIKHYRVH  
TGERPYKDECGKNSQNSDLVRHRAHTGEKPYHCNECGENFSRISHLVQHQRTHTGEK  
PYECNACGKSFRSSHLITHQKIHTGEKPYECNECWRSFGERSDLIKHQRTHTGEKPYEC  
VQCGKGFTQSSNLITHQRVHTGEKPYECTECEKSFRSSALIKHKRVHTD

>sp|Q8N8Z8|ZN441\_HUMAN Zinc finger protein 441 OS=Homo sapiens GN=ZNF441 PE=2 SV=2  
MDSVAFEDVAINFCEEWALLGPSQKSLYRDVMQETIRNLDCIGMIWQNHDI EEDQYKDL  
RRNL RCHMVERACEIKDNSQCGGPFTQTQDSIVNEKIPGVDPWESSECTDVL MGRSSLNC  
YVRV DSEHKPCEYQEYGEKPYTHTQCGTAFSYQPCFQIHERPQHGGKLYDCKEASFSSL  
ENLQRHMAAHGDPRI CKLGNFIWPSLFHMLRRTHTEEKPYEYEQCSTAFPAYSSTL  
RHERTHSGEKPYQCKQCGKAFSCSCYTQLYERTHTGEQSYECKQCGKAFYHLGSFQRHMI  
VHTGDGPHKCKICGKGFLSPSSVRRHKRTHTGEKPYECKYCGKAFSDCTGFRRHMITHTG  
DGPHKCKVCGKAFDSPSLCRRHETHTTGEKPYKCECGKAFSDFYFRNHETHTTGEKPYK  
CKQCGKAFICCTYLQIHERIHTGERPYKCKQCGKAFRSSNYIRVHEKTHTGEKPYECKQC  
GKALSHLKSFQRHMIHTGDGPHKCKICGKSFDPSSFRRHRIHTGERPYKCKLCGKGF  
RSSSYIQLHERHTTGEKPYGCQCGKALSDLSSFRRHMITHTGN GPHKCKICGKGFDYPS  
SVQRHERHTTGEKPYECKECGKAFSHSSYLRIHERVHTGEKPYKCECGKPFHCPSAFHK  
HERTHSMEKPYKCECGEAFHCIS SFHKHEMTH

>sp|Q8N0Y2|ZN444\_HUMAN Zinc finger protein 444 OS=Homo sapiens GN=ZNF444 PE=1 SV=1  
MEVAVPVKQEA EGLALDSPWHRFRFHLGDAPGPREALGLLRALCRDWLRPEVHTKEQML  
ELLVLEQFLSALPADTQAWVCSRQPSGEEAVALLEELWGPAASPDGSSATRV PQDVTQG  
PGATGGKEDSGMIPLAGTAPGAEGPAPGDSQAVRPYKQEPSSPLAPGLPAFLAAPGTTS  
CPEGKTS LKPAHLLRHRQSHSGEKPHACPEGKAFRRKEHLRRHRDTHPGSPGSPGPAL  
RPLPAREKPHACCECGKTFYWREHLVRHRKTHSGARPFACWECGKGFRREHVL RHQRIH  
GRAAASAQGAVAPGPDGGGPFPPWPLG

>sp|Q9Y4E5|ZN451\_HUMAN E3 SUMO-protein ligase ZNF451 OS=Homo sapiens GN=ZNF451 PE=1 SV=2  
MGDPGSEIIESVPPAGPEASESTTDENEDDIQFVSEGPLRPVLEYIDLVSDDDEEPSTSY  
TDENIKRKDHIDYQKDKVALTLARLARHVEVEKQQKEKNRAFREKIDFQHAHGLQELEF  
IRGHS DTEAARLCVDQWLKMPGLKTGTINCGTKSSFRGGHTWVSGKPI LCPIMHCNKEF  
DNGHLLLGH LKRFDHSPCDPTITLHGPFSSFACVVCYKKFVTQQQYRDHLFDKEATDDG  
HNNLLPQIIQCFACPNCFLLFSRKEECSKHMSGKNHFHQSFKLGDNKGIAHPISFPSFA  
KKLLISLCKDVPFQVKCVACHKTLRSHMELTAHFRVHCRNAGPVAVAEKSITQVAEKFIL

RGYCPDCNQVFVDETSTQNHKQNSGHKVRVINSVEESVLLYCHSSEGNDPSSDLHLLLD  
QSKFSSLKRTMSIKESSLECIAIPKKKMNLKDKSHEGVACVQKEKSVVKTWFCECNQRF  
PSEDAVEKHVFSANTMGYKCVVCGKVCDDSGVIRLHMSRIHGG AHLNNFLFWCRTCKKEL  
TRKDTIMAHVTEFHNGHRYFYEMDEVEGETLPSSSTTLNLTANKPSSAITVIDHSPANS  
SPRGKWQCRICEDMFDSQEYVKQHCM SLASHKFHRYSCAHC RKPFHKIETLYRHCQDEHD  
NEIKIKYFCGLCDLIFNVEEAFLSHYEEHHSIDYVVFVSEKTETS IKTEDDFPVIETSNQL  
TCGCRESYICKVNRKEDYSRCLQIMLDKGKLWFRCSLCSATAQNL TDMNTHIHQVHKEKS  
DEEEQYVIKCGTCTKAFHDPESAQQHFHRKHCF LQKPSVAHFGSEKSNLYKFTASASHT  
ERKLKQAINYSKSLDMEKGVENDLSYQNIIEEEIVELPDL DYLRTMTHIVFVDFDNWSNFF  
GHLPGHLNQGTFIWGFQGGNTNWKPPLNCKIYNYLNRIGCFFLHPRCSKRKDAADFAICM  
HAGRLDEQLPKQIPFTILSGDQGFLELENQFKKTQRP AHILNPHHLEGDMMCALLNSISD  
TTKECSDDDNMGAKNTSIGEEFISTEDVELEEAI RRSLEEM

>sp|Q8N8L2|ZN491\_HUMAN Zinc finger protein 491 OS=Homo sapiens GN=ZNF491 PE=2 SV=1

MGERLFESAEGSQCGETFTQVPEDMLNKKTLPGVKSCESGTCGEIFMGYSSFNRNIRTD  
GHQPHKCQKFLEKPYKHKQRRKALSHSHCFR THERPHTREKPFDCKECEKSFISPASIRR  
YMVTHSGDGPYKCKFCGKALDCLSLYL THERTHTGEKRYECKQCGKAFSWHSSVRIHERT  
HTGEKPYECKECKGSFNFFSSFRHERHTHTGEKPYCKECKGAFNCPSSFHRHERHTHTGE  
KPYECKLYGKALSRLISFRHRMRMHTGERPHKCKICGAFYSPSSFQRHERSHTGEKPYK  
CKQCGKAFTCSTSFQYHERHTHTGEKPDGCKQCGKAFRSAKYIRIHGRHTHTGEKPYECKQC  
GKAHFVCSSFRHERHTHAGEKPYECKHCGKAFTCSIYIRIHERIHTGEKPYQCKECKGAF  
IRSSYCRKHHERHTTINI

>sp|Q6ZNH5|ZN497\_HUMAN Zinc finger protein 497 OS=Homo sapiens GN=ZNF497 PE=1 SV=2

MESPRGWTLQVAPEEGQVLCNVKTATRGLSEGAVSGGWGAWENSTEVPREAGDQGRQQAT  
LGAADEQGGPGRELGPADGGRDGAGPRSEPADRALRPSPLPEEPGCRCGECGKAFSQGSY  
LLQHRRVHTGEKPYTCPEGKAFAWSSNLSQHQR IHSGEKPYACRECGKAFFRAHSQLIHH  
QETHSGLKPFRCPCGKSFGRSTTLVQHRRHTHTGEKPYECPEGKAFSWNSNFLEHRRVH  
TGARPHACRDCGKAFSQSSNLAELKIHAGARPHACPCGKA FVRVAGLRQHRRTHSSEK  
PFPCAECGKAFFRESSQLLQHQRHTHTGERPFCAECGQAFVMG SYLAEHRRVHTGEKPHAC  
AQCGKAFSQRSNLLSHRRTHSGAKPFACADCGKA FRGSSGLAHHRLSHTGERPFACAECG  
KAFRGSSELRQHQR LHSGERPFVCAHCSKAFVRKSELLSHRRHTHTGERPYACGECGK PFS  
HRCNLNEHQKRHGGRAAP

>sp|Q96F45|ZN503\_HUMAN Zinc finger protein 503 OS=Homo sapiens GN=ZNF503 PE=1 SV=1

MSTAPSLSALRSSKHSGGGGGGGGGGADPAWTSALSGNSSGPGPGSSPAGSTKPFVHAV  
PPSDPLRQANRLPIKVLKMLTARTGHILHPEYLQPLPSTPVSPIELD AKKSPLALLAQTC  
SQIGKPDPSPKLSSVASNGGGAGGAGGAAGDKDTKSGPLKLSDIGVEDKSSFKPYSK  
PGSDKKEPGGGGGGGGGGGGGGGVSSEKSGFRVPSATCQ PFTPTGTGSPSSASACSPGG  
MLSSAGGAPEGKDDKDDTDVGGGKGKTGGASAEGGPTGLAHGRISCGGGINVDVNQH PDG  
GPGGKALGSDCGSSGSSSGSPSAPTSSSVLGSGLVAPVSPYKPGQTVFPLPPAGMTYP  
GSLAGAYAGYPPQFLPHGVALDPTKPGSLVGAQLAAAAAGSLGC SKPAGSSPLAGASPPS  
VMTASLCRDPYCLSYHCASHLAGAAAASASCAHDPA AAAAAALKSGYPLVYP THPLHGVHS  
SLTAAAAAGATPPSLAGHPLYPYGFMLPNDPLPHICNWVSANGPCDKRFATSEELLSHLR  
THTAFPGTDKLLSGYPSSSSLASAAAAAMACHMHIPTSGAPGSPGTLALRSPH HALGLSS  
RYHPYKSPLPTPGAPVPVPAATGPYYSPYALYGQRLTTASALGYQ

>sp|Q96CX3|ZN501\_HUMAN Zinc finger protein 501 OS=Homo sapiens GN=ZNF501 PE=2 SV=2

MNSSQISLRMKHGRVNMQKKPSKCECGKFFTQRSSLTQHQRIRHGEKPYVCSECGSCFR  
KQSNLTQHLRIHTGEKPYKCNECEKAFQTKAILVQHLRIHTGEKPYKCNECGKAFQCSPS  
LIKHQRIHTGEKPYKCTECGKAFSQSICLTRHQRSMSGDKPFCNECGKAFNQSACLMQH  
QRIHSGEKPYTCTECGKAFQTQNSSLVEHERHTHTGEKLYKCECEKTFRKQAHLSEHYRIH  
TGEKPYECVCGCKSFRHSSALLRHQRLHAGE

>sp|Q8NB15|ZN511\_HUMAN Zinc finger protein 511 OS=Homo sapiens GN=ZNF511 PE=1 SV=1  
MQLPPALCARLAAGPGAAEPLPVERDPAAGAAPFRFVARPVRFPREHQFFEDGDVQRHLY  
LQDVIQVADVPEKPRVPAFACQVAGCCQVFDALDDYEHYHTLHGNVCSFCKRAFPSGH  
LLDAHILEWHDSLFIQLSERQDMYQCLVEGCTEKFKTSRDRKDHVMRMLYPADFRFDKP  
KKSRSASAEAPGDSGERSEGEAMEICSEPVAASPAPAGERRIYRHSVSELFLKPVLNM  
CSVLRILGCTWAAALLILNSER

>sp|Q86UQ0|ZN589\_HUMAN Zinc finger protein 589 OS=Homo sapiens GN=ZNF589 PE=1 SV=1  
MWAPREQLLGWTAELPAKDSAWPWECKPRYLGPVTFEDVAVLFTAEWKRLSLEQRNLY  
KEVMLENLRNLVSLAESKPEVHTCPSCPLAFGSQQFLSQDELHNHPIPGFHAGNQLHPGN  
PCPEDQPQSQHPSDKNHRGAEADQVEGGVRPLFWSTNERGALVGFSSLFQRPPISSWG  
GNRILEIQLSPAQNASSEEVDRISKRAETPGFGAVTFGECALAFNQKSNLFRQKAVTAEK  
SSDKRQSQVCRECGRGFSRKSQLIHQRTHTGEKPYVCGEGRGFIVESVLNRNHLSTHSG  
EKPYVCSHCGRGFSCPKYLIRHQRTHTREKSFMCCTVCGRGFREKSELIKHQRIHTGDKPY  
VCRD

>sp|Q9BS31|ZN649\_HUMAN Zinc finger protein 649 OS=Homo sapiens GN=ZNF649 PE=1 SV=1  
MTKAQESLTLEDVAVDFTWEWQFLSPAQKDLYRDVMLENYSNLVSVGYQAGKPDALTKL  
EQGEPLWTLEDEIHSAPHEIEKADDHLQQPLQNKILKRTGQRYEHGRTLKSYLGLTNQ  
SRRYNRKEPAEFGDGAFLHDNHEQMPTIEFPESRKPISTKSQFLKHQQTHNIEKAHEC  
TDCGKAFLKKSQLTEHKRIHTGKKPHVCSLCGAFYKKYRLTEHERAHRGEKPHGCSLCG  
KAFYKRYRLTEHERAHKGEKPYGCSECGKAFPRKSELTEHQRIHTGIKPHQCSECGRAFS  
RKSLLVHQRTHTEKPYHTCSECGKGFQKGNLNIHQRTHTGEKPYGCIDCGKAFSQKSC  
LVAHQRYHTGKTPFVCEPGQPCSQKSGLIRHQKIHSGEKPYKSCDCGKAFLTKTMLIVH  
HRHTGERPYGCDECEKAYFYMSCLVKHKRIHSREKRGDSVKVENPSTASHSLSPSEHVQ  
GKSPVNMVTVMVAGQCEFAHILHS

>sp|Q6AZW8|ZN660\_HUMAN Zinc finger protein 660 OS=Homo sapiens GN=ZNF660 PE=1 SV=1  
MRRKTRNFKHKTVDKNVLTEGSDQSEKDNSQCCDPATNERVQAEKRQYVCTECGKAFS  
QSANLTVHERIHTGEKPYKCECGKAFSHSSNLVVHRIHTGLKPYTCSECGKSFGSKSH  
LIRHQGIHSGEKTYECKEKGKAFSRSSGLISHRVHTGEKPYSCIECGKAFSRSSNLTQH  
QRMHRGKKVYKCECGKTCGSNTKIMDHQRIHTGEKPYECDECGKTFILRKTLNEHQRLH  
RREKPYKCNECGKAFSTNRNLVDHQRVHTGEKPYKCNECGKTFRQTSQVILHLRTHTEK  
PYKCECGKAYRYSSQLIQHQRKHNEEKETS

>sp|Q9H7R5|ZN665\_HUMAN Zinc finger protein 665 OS=Homo sapiens GN=ZNF665 PE=2 SV=2  
MGEAFYTVKLERLESCDTVGLSFQEVQKNQYDFECQWKDDEGNYKTVLMLQKENLPGRRA  
QRDRRAAGNRHIENQLGVSFQSHLPELQQFQHEGKIYEYNQVEKSPNNRGKHYKCECGK  
VFSQNSRLTSHKRIHTGEKPYQCNKCGKAFVRSNLTIHQVIHTGEKPYKCNECGKVFSQ  
PSNLAGHQRIHTGEKPYKCNECGKAFRAHSLTTHQVIHTGEKPYKCECGKCFQNSHL  
ASHRRIHTGEKPYKCNECGKAFSVRSSLTTHQTIHTGEKPYKCNECGKVFRHNSYLAKHR  
RIHTGEKPYKCNECGKAFSMHNSLTQHQIIHTGEKPFKCECVKVFQYSHLANHRRRIHT  
GEKPYRCDECGKAFSVRSSLTTHQAIHTGEKPYKCNDCGKVFTQNSHLASHRGHSGEKP

YKDECGKAFSQTSQLARHWRVHTGEKPYKCNECGKAFSVHSSLTIHQTIHTGQKPYKCN  
DCGKVFRHNSYLAIHQRIHTGEKPYKCNECGKAFSVHSNLATHQVIHTGEKPYKCNECGK  
VFTQNSHLANHRRIHHTGEKPYRCNECGKAFSVRSTLTTHMAVHTGDKPYKCNQCGKVFTQ  
NSNLAKHRRIHSG

>sp|Q8TAW3|ZN671\_HUMAN Zinc finger protein 671 OS=Homo sapiens GN=ZNF671 PE=2 SV=2

MLSPVSRDASDALQGRKCLRPRSRLPLPAAVRAHGPMaelTDSARGCVVFEDVFVYFSR  
EEWELDDAQRLLYHDVMLENFALLASLGIAFSRSRAVMKLERGEEPWYDQVDMTSATE  
REAQRGLRPGCWHGVEDEEVSSSEQSIFVAGVSEVRTLMAELESHPCDICGPILKDTLHLA  
KYHGGKARQKPYLCGACGKQFWFSTDFDQHQNQPNGGKLFPRKEGRDSVKSCRHVHPEKT  
LTCGKGRRDFSATSGLLQHQSLSMMKPHKSTKLVSGLMGQRYHRCGECGKAFTRKDTL  
ARHQRHHTGERPYECNECGKFFSQSYDLFKHQTVHTGERPYECSECGKFFRQISGLIEHR  
RVHTGERLYQCGKCGKFFSSKSNLIRHQEVHTGARPYVCSECGKEFSRKHTLVLHQRTHHT  
GERPYECSECGKAFSQSSHLNVHWRIHSSDYECRCGKAFSCISKLIQHQQVHSGEKPYE  
CSKCGKAFTQRPNLIRHWKVHTGERPYVCSECGREFIRKQTLVLHQRVHAGEKL

>sp|Q86XU0|ZN677\_HUMAN Zinc finger protein 677 OS=Homo sapiens GN=ZNF677 PE=2 SV=1

MALSQGLFTFKDVAIEFSQEEWECLDPAQRALYRDVMLENYRNLLSLDEDNIPPEDDISV  
GFTSKGLSPKENNKEELYHLVILERKESHGINNFDLKEVWENMPKFDSLWDYDVKNYKGM  
PLTCNKNLTHRKDQQHNKSSIHFSLKQSVSIRDSAHQYFIHDKPFI RNLLKLKNNIRYAG  
NKYVKCFENKIGLSLQAQLAELQRFQTGEKMYECNPVEKSINSSSVSPLPPCVKNICNKY  
RKILKYPLLHTQYGRTHIREKSYKCNDCGKAFSKSSNLTNHQRIHSGQRPYKCNECGKAF  
NQCSNLTRHQRVHTGEKPYQCNICGKVCQNSNLASHQRMHTGEKPYKCNECGKAFIQRS  
HLWGERIHHTGEKPYKCNECDKAFAERSSLTQHKRIHTGEKPYICNECGKAFKQCSSLTR  
HQNIHPGEKPHKCNVCGRAFIQSSSLVEHQRIHTGEKPYKCNKCDKAFIKRSHLWGHQRT  
HTGEKPYKCTECGKAFTERSNLTQHKKIHTGEKPYKCTECGKAFTQFANLTRHQKIHIEK  
KHCKHNIHGNA LFQSSNLGDHQSYNREKHIKYNETKIKYSSCT

>sp|Q8IYX0|ZN679\_HUMAN Zinc finger protein 679 OS=Homo sapiens GN=ZNF679 PE=1 SV=2

MAKRPGSPGSRMGLLTFRDVVIEFSLEEWQCLDHAQQNLYRDVMLENYRNLVSLGIAVS  
KPD LITCLEQNKPEWNIKRNMVTKHPVMCSHFTQDLPELGIKDSLQKVI PRRYGKSGH  
DNLQVKTCKSMGECEVQKGGCNEVNQCLSTTQNKIFQTHKCVKVFGKFSNSNRHKTRHTG  
KKHFKCKKYGKSCMVSQLHQHQI IHTRENSYQCEECGKPFNCSSSTLSKHKRIHTGEKPY  
RCEECGKAFTWSSSTLTKHRRIHHTGEKPYTCEECGQAFSRSSSTLANHKRIHTGEKPYTCEE  
CGKAFSLSSSLTYHKRIHTGEKPYTCEECGKAFNCSSSTLKKHKI IHTGEKPYKCECGKA  
FAFSSSTLNTHKRIHTGEEPYKCEECDKAFKWSSSLANHKSMHTGEKPYKCE

>sp|Q96N22|ZN681\_HUMAN Zinc finger protein 681 OS=Homo sapiens GN=ZNF681 PE=2 SV=2

MEPLKFRDVAIEFSLEEWQCLDTIQQLNLYRNMLENYRNLVFLGIVVSKPDLITCLEQEK  
EPWTRKRHRMVAEPPVICSHFAQDFSQEIQKDSFQKVTPRRYGKCEHENLQLSKSVDEC  
KVQKGGYNGLNQCLPTTQSKIFQCDKYMKIFHKFSNLNGHKVRHTRKKPFKYKEFGKSFC  
IFSNTLQHKKIICTRVNFKCEDCGKAFNGSSIFTKHKRIHIGESYICEECGKACNQFTN  
LTTHKIIYTRDKLYKREESKAFNLSSHITHTI IHTGENPYKREEDKAFNQSLTLTTH  
KIIHTREKLNHEYKECGKAFNQSSHLTRHKI IHTGEKPYKCEECGKAFNQSSHLTRHKI IH  
TGEKPYRCEECGKAFRQSSHLTTHKI IHTGEKPYKCEECGKAFNKSSHLTRHKS IHTGEK  
PYQCEKCGKASNQSSNLTEHKNIHTEEPYKCEECGKAFNQFSNLTTHKRIHTGEKPYKC  
EECGKAFNQSSILTTHKRIHTGEKSYKCEECGKAFYRSSKLTEHKKIHTGEKPYTCEECG  
KAFNHSSHLATHKVIHTGEKPYQCEECGKAFNQSSHLTRHKRIHTGEKPYQCEKCGKAFN

QSSNLTGHKKIHTGEKLYKPKRCNSDFENTSKFSKHKRNYAGEKS

>sp|Q8IZ20|ZN683\_HUMAN Tissue-resident T-cell transcription regulator protein ZNF683

OS=Homo sapiens GN=ZNF683 PE=1 SV=3

MKEESAAQLGCCHRPMALGGTGGSLSPSLDFQLFRGDQVFSACRPLPDMVDAHGPSCASW  
LCPLPLAPGRSALLACLQDLNLCTPQPAPLGTDLQGLQEDALSMKHEPPGLQASSTDD  
KKFTVKYPQNKDKLGKQPERAGEGAPCPAFSSHNSSSPPLQNRKSPSPLAFCPCPPVNS  
ISKELPFLHAFYPGYPLLLPPPHLFTYGALPSDQCPHLLMLPQDPSYPTMAMPSLLMMV  
NELGHPSARWETLLPYPGAFAQSGQALPSQARNPGAGAAPTDSPLGERGGMASPAKRVPL  
SSQTGTAALPYPLKKKNGKILYECNICGKSFGQLSNLKVHLRVHSGERPFQCALCQKSFT  
QLAHLQKHHLVHTGERPHKCSIPWVPGRNHWSFQAWREREVCHKRFSSSSNLKTHLR LH  
SGARPFQCSVCRSRTQHIHLKHHRLHAPQPCGLVHTQLPLASLACLAQWHQGALDLMA  
VASEKHMGYDIDEVKSSTSQGKARAVSLSSAGTPLVMGQDQNN

>sp|Q96CS4|ZN689\_HUMAN Zinc finger protein 689 OS=Homo sapiens GN=ZNF689 PE=2 SV=1

MAPPAPLPAQGP GKARPSRKGRRRPRALKFVDVAVYFSPEEWGCLRPAQRALYRDMRE  
TYHGLGALGCAGPKPALISWLERNTDDWEPAALDPQEYPRGLTVQRKSRTKKNKEKEVF  
PPKEAPRKGKGRRRSPKRLIPRQTSGGPICPDGCTFPDHQALESHKCAQNLKKPYPCP  
DCGRRFSYPSLLVSHRRAHSGECPYVCDQCGKRFSQRKNLSQHQVIHTGEKPYHCPDCGR  
CFRRSRSLANHRTTHTGEKPHQCPSCGRRFAYPSLLAIHQRTHTGEKPYTCLECNRRFRQ  
RTALVIHQRIHTGEKPYPCDCERRFSSSSRLVSHRRVHSGERPYACEHCEARFSQRSTL  
LQHQLLHTGEKPYPCDCGRAFRRRSGSLAIHRSTHTEKLHACDDCGRRFAYPSLLASHR  
RVHSGERPYACDLSKRFAQWSHLAQHQLLHTGEKPFPCLECGRCFRQRWSLAVHKCSPK  
APNCSPRSAIGSSQRGNAH

>sp|Q9NV72|ZN701\_HUMAN Zinc finger protein 701 OS=Homo sapiens GN=ZNF701 PE=2 SV=3

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KAKESGMALLQGLLTRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDTSSKCM  
MKMFSSTGQGNTVEVHTGTLQIHASHHIGDTCFQIEKDIHDFVFQWQENETNGHEALMT  
KTKKLSSTERHDQRHAGNKPIKNELGSSFHSHLPEVHIFHPEGKIGNQVEKAINDAFSV  
SASQRISCRPKTRISNKYRNNFLQSSLLTQKREVHTREKSFQRNESGKAFNGSSLLKKHQ  
I IHLGDKQYKCDVCGKDFHQRYLACHRCTGENPYTCNECGKTFSHNSALLVHKA IHTG  
EKPYKCNECGKVFNQSNLARHHRVHTGEKPYKCEECDKVFSRKSHLERHRR IHTGEKPY  
KCKVCDKAFRRDLSHLAQHTVIHTGEKPYKCNECGKTFVQNSSLMHKVIHTGEKRYKCNE  
CGKVFNHKSNLACHRRRLHTGEKPYKCNECGKVFNRKSNLERHHRRLHTGKKS

>sp|Q9H7S9|ZN703\_HUMAN Zinc finger protein 703 OS=Homo sapiens GN=ZNF703 PE=1 SV=1

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GHLLHPEYLQPLSSTPVSPIELDAKKSPLALLAQTCSEQIGKPDPPSSKLSVAAAANG  
GAEKDPGRSAPGAASAAAALKQLGDSPAEDKSSFKPYSKSGGGDSRKDSGSSSVSTSS  
SSSSSPGDKAGFRVPSAACPPFPHPGAPVSASSSSSPGSGRGGSPHHS DCKNGGGVGGG  
ELDKKDQEPKPSPEPAAVSRGGGGEPAHGGAESGASGRKSEPPSALVGAGHVAPVSPYK  
PGHSVFPLPPSSIGYHGSIVGAYAGYPSQFVPGLDPSKSGLVGGQLSGGLGLPPGKPPSS  
SPLTGASPPSFLQGLCRDPYCLGGYHGASHLGGSSCSTCSAHDPAGPSLKAGGYPLVYPG  
HPLQPAALSSSAAQAALPGHPLYTYGFMLQNEPLPHSCNWAASGPCDKRFATSEELLSH  
LRHTALPGA EKLLAAYPGASGLGSAAAAAAAASCHLHLP PPAAPGSPGSLSLRNPHTL  
GLSRYHPYGKSHLSTAGGLAVPSLPTAGPYYSPLYALYQRLASASALGYQ

>sp|Q96N38|ZN714\_HUMAN Zinc finger protein 714 OS=Homo sapiens GN=ZNF714 PE=2 SV=3

MNVMLENYKNLVFLAGIAVSKQDPITSLEQEKEPWNMKICEMVDESPAMCSSFTRDLWPE  
QDIKDSFQQVILRRHGKCEHENLQLRKGSANVVECKVYKKGYELNQCLTTTQSKIFPCDK  
YIKVFHKIFNSNRHKTRHTGEKPFKCKKCDSEFCMLLHLHQHKRIHIRENSYQCEECDKV  
FKRFSTLTRHKRVHTGEKPFKCEECGKAFKHSSTLTTHKMIHTGEKPYRCEECGKAFYHS  
SHLTTHKVIHTGEKPFKCEECGKAFNHPSALTTHKFIHVKEKPYKCEECDKAFNRFSYLT  
KHKI IHSGEKSYKCEQCGKGFNWSSTLTTHKRIHTGEKPYKCEECGKAFNVSSHLTTHKM  
IHTGEKPYKCEECGKAFNHSSKLTTHKI IHTGEKPYKCEECGKAFNQSSNLTTHKI IHTG  
EKLYKCEECGKAFNRSSNLTTHKRIHTGEKPYKCEECGKAFNRSSNLTTHNI IHTGEKSY  
KCEECGKAFNQSSSTLTTHKRIQQGMVAHACNPNTLRGLGEQIARSGVQDQPGQHGKTPSL  
LKIQKFAGCGRRRL

>sp|Q3SXZ3|ZN718\_HUMAN Zinc finger protein 718 OS=Homo sapiens GN=ZNF718 PE=2 SV=1

MELLTFKDVAIEFSPPEWKCLDISQNLRYDVMLENYRNVLVSLGVTISNPDLVTSLEQRK  
EPYNLKIHETAARPPAVCSHFTQNLWTVQGIEDSFHKLIPKGHEKRGHENLRKTCKSINE  
CKVQKGGYNRINQCLTTQKKTIQSNICVKVFHKFSNSNNDKIRYTGDKTFKCECGKSF  
HVL SRLTQHKRIHTGENPYTCEECGKAFNWSSILTTHKRIHAREKFYKCEECGKGFTRSS  
HLTTHKRIHTGEKPYICEKCGKAFNQSSSTLNLTTHKRIHSAQKYKCEECGKAFKWSSSLNE  
HKRIHAGEKPFSCCECGNVFTTSSDFAKHKRIHTGEKPYKCEECGKSFNRSTLTTHKRI  
HTGEKPYTCEECGKAFNWSSSTLNLTTHKRIHSGKNPYKCEDCGKAFKVFANLHNRKKIHTGE  
KPYICKQCGKAFKQSSHLNKHKKIHTVDKPYKCECGKAFKQYSNLPQHKRTHTGKGF

>sp|Q8TF20|ZN721\_HUMAN Zinc finger protein 721 OS=Homo sapiens GN=ZNF721 PE=2 SV=2

MCSHFTQDFLPVQGIEDSFHKLILRRYEKCGHDNLQLRKGCCKSMNVCKVQKGVYNGINKC  
LSNTQSKIFQCNARVKVFSKFANSNNDKTRHTGEKHFKCNECGKSFQKFSDLTQHKGIHA  
GEKPYTCEERGKDFGWYTDLNQHKKIHTGEKPYKCEECGKAFNRSTNLTAHKRIHNREKA  
YTGEDRDRAFGWSTNLNEYKKIHTGDKPYKCECGKAFMHSSHLNKHKKIHTGEKPYKCK  
ECGKVISSSSFAKHKRIHTGEKPFKCECGKAFNISTLTTHKRIHTGEKPYTCEVCGK  
AFRQSANLYVHRIHTGEKPYTCGCGKTFRQSANLYVHRIHTGEKPYKCEDCGKAFGR  
YTALNQHKKIHTGEKPYKCEECGKAFNSSTNLTAHKRIHTREKPYTCEDRGAFLSTNL  
NEYKKIHTGDKPYKCECGKAFIHSLLNKHKKIHTGKKPYKCKQCGKVITSSSSFAHKK  
RIHTGEKPFCELECGKAFTSSTLTTHKRIHTGEKPYTCEVCGKAFRQSAILYVHRIHT  
GEKPYTCEECGKTFRQSANLYVHRIHTGEKPYKCEECGKAFGRYTDLNQHKKIHTGEKL  
YKCEECGKDFVWYTDLNQKKIYTGEKPYKCEECGKAFAPSTDLNQHTKILTGEQSYKCE  
ECGKAFGWSIALNQHKKIHTGEKPYKCEECGKAFSRSRNLTTHRRVHTREKPYKCEDRGR  
SFGWSTNLNEYKKIHTGDKLYKCECGKVFQSSHLNRHEKIHTGKKPYKCECGKVITS  
SSSFAHKKRIHTGEKPFKCECGKAFTSSTLTTHKRIHTGEKPYTCEECGKAFRQSAIL  
YVHRIHTGEKPYTCGCGKTFRQSANLYAHKKIHTGEKPYTCGDCGKTFRQSANLYAHK  
KIHTGDKTIQV

>sp|A6NN14|ZN729\_HUMAN Zinc finger protein 729 OS=Homo sapiens GN=ZNF729 PE=2 SV=4

MPGAPGSLEMPLTFRDVTIEFSLEEWQCLDTVQNLRYDVMLENYRNVLVFLGMAVFKPD  
LITCLKQGKEPWNMKRHEMVTKPPVMRSHFTQDLWPDQSTKDSFQEVILRTYARCGHKNL  
RLRKDCKSANEGMKHKEGYKNLQCRATATQRKIFQCNHMKVFKYSNRNKRVRHTKKKTF  
KCIKCSKSFMLSLIRHKRIHIRQNIYKCEERGKAFKSFSTLTTHKI IHTEDKPYKYKK  
CGNAFKFSSTFTTHKRIHTGETPFRCEECGKAFNQSSNLTTHKRIHTGEKTYKCEECGKA  
FKGSSNFNAHKVIAETAEKPYKCEDCGKTFNHFSALRKHKI IHTGKKPYKREECGKAFSQS  
STLRKHEI IHTGEKPYKCEECGKAFKWSSKLTTHKRVHTGEKPYKCEECGKAFSQFSTLK

KHKI IHTGKKPYKCEECGAFNSSSTLMKHKI IHTGEKPYKCEECGAFRQSSHLTRHKA  
IHTGEKPYKCEECGAFNHFSDLRRHKI IHTGKKPYKCEECGAFSQSSSTLRNHQI IHTG  
EKPYKCEECGAFKWSSKLTVHKVIHTGEKPKCEECGAFKHFSALRKHKVIHTREKLY  
KCEECGAFNNSILAKHKI IHTGKKPYKCEECGAFRQSSHLTRHKA IHTGEKPYKCEE  
CGAFSHFSALRRHKI IHTGKKPYKCEECGAFSHFSALRRHKI IHTGEKPYKCEECGKA  
FKWSSKLTVHKVIHTAEKPKCEECGKSFKHFSALRKHKVIHTREKLYKCEECVKAFNSF  
SALMKHKVIHTGEKPYKCEECGAFKWSSKLTVHKVIHTGEKPKCEECGAFKHFSALR  
KHKVIHTGKKPYKCEECGAFSQSSSLRKHEI IHSGEKPYKCEECGAFKWLSKLTVHKV  
IHTAEKPKCEECGAFKHFSALRKHKI IHTGKKPYKCEECGAFNDSSTLMKHKI IHTG  
KKPYKCAECGAFKQSSHLTRHKA IHTGEKPYKCEECGKDFNNSSTLKKHKL IHTREKLY  
KCEECVKAFNNSALMKHKI IHTGEKPYKCEECGAFKWSSKLT EHKVIHTGEKPKCEE  
CDKAFKHFSALRKHKVIHTGKKPYQCDECGAFNNSSTLTKHKI IHTGEKPYKCEECGKA  
FSQSSILTKHKI IHSVEKPYKCEECGAFNQSSHLTRHKT IHTGEKPYKCEECGAFIQ  
SYLIRHKT IHTREKPTNVKKVPKLLSNPHTLLDKT IHTGEKPYKCEECAKAF

>sp|B4DXR9|ZN732\_HUMAN Zinc finger protein 732 OS=Homo sapiens GN=ZNF732 PE=2 SV=1

MELLTFRDVAIEFSPEEWKCLDPAQQNLYRDVMLENYRNLI SLGVAISNPDLVIYLEQRK  
EPYKVIHETVAKHPAVCSHFTQDFLPVQGIEDSFHKLILRRYEKCGHENLELRKSCKRK  
VQGGYNEFNQCLSTIQSKIFQCNVHVKVFSTFSNSNQRRIRHTGEKHFKECGKSFQKFS  
DLTQHGGIHAGEKPYTCEECGKDFKWYLIFNEYEI IHTGEKPFTCEECGNIFTTSSNFAK  
HKVHTGEKSYKYECCGAFNRSSSTLTKHKRIHAEKPFTEECGKIITSSSNVAKHKI IHT  
TGEKLYKQCECGKVFNRSTTLTKHNRIHTGEKPYTCEECGAFSRSSVLNEHKRIHTGEK  
PYKCEQCGKAFRQSATLNKHKSIHTGEKPYTCEECGAFSRFTTLNEHKRIHTGERPHKC  
EECGKAFGWSTDLNKHKI IHTGEKPYKCEECGAFGWSAYLSKHKI IHTGEKPYRCEECG  
KAFLCSRALNKHKT IHTGEKPYECEECGAFGWSTYLSKHKI IHTGEKPYRCEECGKAFR  
RSRVLNKYKT IHTGDKTPKCKGCGKAFKWSSYLNQHNKIYTGEKL

>sp|O43361|ZN749\_HUMAN Zinc finger protein 749 OS=Homo sapiens GN=ZNF749 PE=1 SV=2

MNLTEDCMVFEDVAIYFSQEEWGILNDAQRLHSNVMLENFALLSSVGCWHGAKDEEVPS  
KQCVSVRVLQVTIPKALSTLKAQPKMCSSILKDILHLAEHDGTHPEQGLYTCAA EHDL  
HQKEQIREKLTRSEWRPSFVNHAHVGERNFTCTQGGKDF TASSDLLQQQVLNSGWKLY  
RDTQDGEAFQGEQDNFNSSQGGKDFCHQHGLFEHQKTHNGERP YEFSECGELFRYNSNLI  
KYQQNHAGERPYEGTEYGKTFIRKSNLVQHQKIHSEGFLSKRSDPIEHQEILSRPTPYEC  
TQCGKAFLTQAHLVGHQKTHTEQPYECNCKGKFFMYNSKLI RHQKVHTGERRYECSECG  
KLFMDSFTLGRHQRVHTGERPFEC SICGKFFSHRSTLNMHQRVHAGKRLYKCECGKAFS  
LKHNVVQHLKIHTGERPYECTECEKAFVRKSHLVQHQKIHTDAFSKRSDLIQHKRIDIRP  
RPYTCSECGKAFLTQAHLVGHQKIHTGERPYECTQCAKAFVRKSHLVQHEKIHTDAFSKR  
SDLIQHKRIDL RPRPYVCECGKAFLTQAHL DGHQKIQTGERRYECNECGKFFLDSYKLV  
IHQRIHTGEKPYKCSKCGKFFRYRCTL SRHQKVHTGERPYECSECGKFFRDSYKLI IHQR  
VHTGEKPYECNCGKFLRYRSTFIKHHKVCTGEKPHECSKRELFRTKSSLI IHQQSHTG  
ESPFKLRECGKDFNKCNTGQRQKTHTGERSYECGESSKVFKYNSSLIKHQI IHTGKRP

>sp|Q0D2J5|ZN763\_HUMAN Zinc finger protein 763 OS=Homo sapiens GN=ZNF763 PE=2 SV=2

MDPVACEDVAVNFTQEEWALLDISQRKLYREVMLETFRNLTSIGKKWKDQNI EYEQNPR  
RNFRLIEGNVNEIKEDSHCGETFTQVPDDRLNFQEKKASPEAKSCDNFVCGEVGIGNSS  
FNMNIRGDI GHKAYEYQDYAPKPYKQQPKKAFRYHPSFRTQERNHTGEKPYACECKGT  
FISHSGIRRRMVMHSGDGPYCKFCGKAVHCLRLYL IHERHTGEKPYECKQCVKSFSYS

ATHRIHERHTHTGEKPYEQCGKAFHSSSSFQAHKRHTHTGGKPYECKQCGKSFSWCHSFQ  
IHERHTHTGEKPCECSKCNKAFRSYRSYL RHKRSHTGEKPYQCKECKRAFTYPSLRRHER  
THSAKKPYECKQCGKALSYKFSNTPKNALWRKTL

>sp|Q6NXT4|ZNT6\_HUMAN Zinc transporter 6 OS=Homo sapiens GN=SLC30A6 PE=1 SV=2

MGTIHLFRKPQRSFFGKLLREFRLVAADRRSWKILLFGVINLICTGFLLMWCSTNSIAL  
TAYTYLTIFDLFSLMTCLISYWVTLRKPSPVYSFGFERLEVLAVFASTVLAQLGALFILK  
ESAERFLEQPEIHTGRLLVGTFFVALCFNLFTMLSIRNKPFAVYVSEAASTSWLQEHVADLS  
RSLCGIIPGLSSIFLPRMNPFLIDLAFALCITYMLIEINNYFAVDTASAIATIALMTF  
GTMYPMSVYSGKVLLQTTTPPHVIGQLDKLIREVSTLDGVLEVRNEHFWTLGFGSLAGSVH  
VRIRRDANEQMVLAHVNTNRLYTLVSTLTVQIFKDDWIRPALLSGPVAANVLNFSDDHHVIP  
MPLLKGTDDLNPVTSTPAKPSSPPPEFSFNTPGKNVNPVILLNTQTRPYGFLNHGHTPY  
SSMLNQLGVPVIGATQGLRTGFTNIPSRYGTTNNRIGQPRP

>sp|O95049|ZO3\_HUMAN Tight junction protein ZO-3 OS=Homo sapiens GN=TJP3 PE=1 SV=3

MEELTIWEQHTATLSKDPRRGFIAISGGRDRPGGSMVSDVVPGGPAEGRQTGDHIVM  
VNGVSMENATSAFAIQILKTCTKMANITVKRPRRIHLPATKASPSPGRQSDSEDDGPQR  
VEEVDQGRGYDGDSSSGSRSWDERSRRPRPGRRGRAGSHGRRSPGGGSEANGLALVSGF  
KRLPRQDVQMKPVKSVLVKRRDSEEFVKLSQIFIKHITDSGLAARHRLQEGDLILQI  
NGVSSQNLSLNDRRLIEKSEGLSLLVLRDRGQFLVNIPPAVSDSDSPLEDISDLASE  
LSQAPPSHIPPPRHAQRSPEASQTDSPVESPRLRRESSVDSRTISEPDEQRSELPRESS  
YDIYRVPSSQSMEDRGYSPDTRVVRFLKGKSIGLRLAGGNDVGIFVSGVQAGSPADGGGI  
QEGDQILQVNDVPFQNLTREEAVQFLLGLPPGEEMELVTQRKQDIFWKMVQSRVGDSEFYI  
RTHFELEPSPPSGLGFTRGDVFHVLDLHPGPGQSHARGGHWLAVRMGRDLREQERGIIP  
NQSRAEQLASLEAAQRAVGVPSSAGSNARADEFWRLRGLRRGAKKTTQRSREDLSALTR  
QGRYPPIYERVVLRASFKRPVILGPVADIAMQKLTAEMPDQFEIAETVSRTDSPSKI IK  
LDTVRVIAEKDKHALLDVTPSAIERLNYVQYPIVVFFIPESRPALKALRQWLAPASRRS  
TRRLYAQAQKLKRKSSHLFTATIPLNGTSDTWYQELKAIIREQQTRPIWTAEDQLDGSLE  
DNLDLPHHGLADSSADLSCDSRVNSDYETDGECCGAYTDGEGYTDGEGGPYTDVDDEPPAP  
ALARSEPVADESQSPDRGRISAHQGAQVDSRHPQGGWRQDSMRTYEREALKKKFMRV  
HDAESSDEDDGYDWGPATDL

>sp|Q05996|ZP2\_HUMAN Zona pellucida sperm-binding protein 2 OS=Homo sapiens GN=ZP2 PE=2  
SV=1

MACRQRGGSWSPSGWFNAGWSTYRSISLFFALVTSGNSIDVSQLVNPAFPGTVTCDEREI  
TVEFPSSPGTKKWHASVVDPLGLDMPNCTYILDPEKLTLRATYDNCTRRVHGQHMTIRV  
MNNSAALRHGAVMYQFFCPAMQVEETQGLSASTICQKDFMSFSLPRVFSGLADDSKGTKV  
QMGWSIEVGDGARAKTLTLPEAMKEGFSLLIDNHRMTFHVPFNATGVTHYVQGNSHLYMV  
SLKLTFISPGQKVFSSQAICAPDPVTCNATHMTLTIFEFPGLKSVSFENQNDVSQLH  
DNGIDLEATNGMKLHFSKTLTKLSEKCLLHQFYLASLKLTFLLRPETVSMVIYPECLC  
ESPVSIVTGELCTQDGFMDVEVYSYQTQPALDLGTLRVGNSSCPVFEAQSQGLVRFHIP  
LNGCGTRYKFEDDKVYENEIHALWTDFPFSKISRDEFRMTVKCSYSRNDMLLNINVES  
LTPPVASVKLGPFTLILQSYPDNSYQQPYGENEYPLVRFLRQPIYMEVRVLNRDDPNIKL  
VLDDCWATSTMDPDSFPQWNVVDGCAYDLNYQTTFHPVGSSVTHPDHYQRFDMAFAF  
VSEAHVLSLVYFHCSALICNRLSPDSPLCSVTCPVSSRHRRATGATEAEKMTVSLPGPI  
LLLSDDSSFRGVGSSDLKASGSSGEKSRSETGEEVGSRGAMDTKGHKTAGDVGSKAVAAV  
AAFAGVVATLGFIIYLYEKRTVSNH



>sp|Q9BS86|ZBPB1\_HUMAN Zona pellucida-binding protein 1 OS=Homo sapiens GN=ZBPB PE=2 SV=1  
MEAFALGPARRGRRRTRAAGSLLSRAAILLFISAFIVRVPSSVGHVLRVPRAFRLTKDSV  
KIVGSTSFPVKAYVMLHQKSPHVLVCVTQQLRNAELIDPSFQWYGPKGKVVSVENRTAQIT  
STGSLVFQNFEESSMSGIYTCFLEYKPTVEEIVKRLQLKYAIYAYREPHYYYQFTARYHAA  
PCNSIYNISFEKKLLQILSKLLLDLSCEISLLKSECHRVKMQRAGLQNELFFAFSVSSLD  
TEKGPKRCTDHNCEPYKRLFKAKNLIERFFNQVEILGRRAEQLPQIYYIEGTLQMVWIN  
RCFPGYGMNVQQHPKCPECCVICSPGSYNPRDGIHCLQCNSSLVYGAKTCL

>sp|Q9UGI0|ZBAN1\_HUMAN Ubiquitin thioesterase ZBAN1 OS=Homo sapiens GN=ZBAN1 PE=1 SV=2  
MSERGIKWACEYCTYENWPSAIKCTMCRAQRPSGTIITEDPFKSGSSDVGRDWPSTTEG  
GSSPLICPDSSARPRVKSSYSMENANKWSCHMCTYLNWPRAIRCTQCLSQRRTSPTEP  
QSSGSGSRPVAFSVDPCEEYNDNRKLNTRTQHWTCVCTYENWAKAKRCVVCDDHPRPNNI  
EAIELAETEEASSINEQDRARWRGSCSSGNSQRRSPATKRDSEVKMDFQRIELAGAVG  
SKEELEVDFFKKLQIKNRMKKTDLFLNACVGVVEGDLAAIEAYKSSGGDIARQLTADDEV  
RLLNRPFAFDVGYTLVHLAIRFQRQDMLAILTEVSQQAACIPAMVCPELTEQIRREIA  
ASLHQRKGDFACYFLTDLVTFITLPAIDEDLPPTVQEKLFDEVLDREVQKELEESPIINW  
SLELATRLDSRLYALWNRTAGDCLLDSVLQATWGIYDKDSVLRKALHDSLHDCSHWFYTR  
WKDWESWYSQSFGLHFSLREEQWQEDWAFILSLASQPGASLEQTHIFVLAHILRRPIIVY  
GVKYYKSFRGETLGYTRFQGVYPLLLWEQSFCKWSPIALGYTRGHFSALVAMENDGYGNR  
GAGANLNTDDVTITFLPLVDSERKLLHVHFLSAQELGNEEQKEKLLREWLDCCVTEGGV  
LVAMQKSSRRRNHPLVTQMVEKWLDRYRQIRPCTSLSDGEDEDEDEDE

>sp|P10073|ZSC22\_HUMAN Zinc finger and SCAN domain-containing protein 22 OS=Homo sapiens  
GN=ZSCAN22 PE=1 SV=2  
MAIPKHSLSPPVWEEDSFLQVKVEEEEEASLSQGGESSHDHIAHSEAARLRFRHFRYEEA  
SGPHEALAHRLALCCQWLQPEAHSKEQILELLVLEQFLGALPPEIQAWVGAQSPKSGEEA  
AVLVEDLTQVLDKRGWDPGAEPTEASCKQSDLGESEPSNVTETLMGGVSLGPAFVKACEP  
EGSSERSGLSGEIWTKSVTQQIHFKKTS GPYKDVPTDQRGRESGASRNSSSAWPNLTSQE  
KPPSEDKFDLVDAYGTEPPYTYSGRSSKCRECRKMFQSASALEAHQKTHSRKTPYACSE  
CGKAFSRSTHLAQHQVVTGAKPHECKEKGAFSRVTHLTQHQRHTGEKPYKCGECGKT  
FSRSTHLTQHQRVHTGERPYECDACGKAFSQSTHLTQHQRHTGEKPYKCDACGRAFSDC  
SALIRHLRIHSGEKPYQCKVCPKAFAQSSSLIEHQRIHTGEKPYKCDGKAFSRSSALM  
VHLRIHITVLQ

>sp|Q6NSZ9|ZSC25\_HUMAN Zinc finger and SCAN domain-containing protein 25 OS=Homo sapiens  
GN=ZSCAN25 PE=1 SV=3  
MLKEHPMAEAPQQQLGIPVVKLEKELPWGRGREDPSPETFRLRFRQFRYQEAAGPQEAL  
RELQELCRRWLRPELHTKEQILELLVLEQFLTILPREFYAWIREHGPESGKALAAMVEDL  
TERALEAKAVPCHRQGEQEETALCRGAWEPGIQLGPVEVKPEWGMPPGEGVQGPDPGTEE  
QLSQDPGDETRAFQEALPVLQAGPGLPAVNPRDQEMAAGFFTAGSQGLGPFKDMALAFP  
EEWRHVTPAQIDCFGEYVEPQDCRVSPGGGSKEKEAKPPQEDLKALVALTSERFGEAS  
LQGPGLGRVCEQEPGGPAGSAPGLPPPQHGAIPLPDEVKTHSSFWKPFQCCECGKGFSSRS  
SNLVRHQRTHEEKSYGCVCEGKGFTLREYLMKHQRTHLGKRPVVCSECWKTFSQRHHLEV  
HQRSHTEKPYKCGDCWKSFSRRQHLQVHRRTHTEKPYTCECGKSFSRNANLAVHRRAH  
TEKPYGCVCGKRFSGERLVRHQRIHTGEKPYHCPACGRSFNQRSILNRHQKTQHRQE  
PLVQ

>sp|Q96LW9|ZSC31\_HUMAN Zinc finger and SCAN domain-containing protein 31 OS=Homo sapiens  
GN=ZSCAN31 PE=1 SV=2

MASTEEQYDLKIVKEEDPIWDQETHLRGNNFSGQEASRQLFRQFCYQETPGPREALSRL  
RELCHQWLRLPEIHTKEQILELLVLEQFLTILPEELQAWVREHHHPESGEEAVAVVEDLEQE  
LSEPGNQAPDHEHGHSEVLLEDVEHLKVKQEPTDIQLQPMVTQLRYESFCLHQFQEQDGE  
SIPENQELASKQEILKEMEHLGDSKLQRDVSLDSKYRETCKRDSKAEEKQAHSTGERRRHR  
CNECGKSFTKSSVLIEHQRIHTGEKPYECECGKAFSRRSSLNEHRRSHTGEKPYQCKEC  
GKAFSASNGLTRHRRHTGEKPYECKVCGKAFLSSCLVQHQRHTGEKRYQCRECGKAF  
IQNAGLFQHLRVHTGEKPYQCSQCSKLFKSKRTLLKKHQKIHTGERP

>sp|Q7Z7L9|ZSCA2\_HUMAN Zinc finger and SCAN domain-containing protein 2 OS=Homo sapiens  
GN=ZSCAN2 PE=2 SV=2

MMAADIPRVTTPLSSLVQVPQEEDRQEEVTTMILEDSDSWVQEAVLQEDGPESEFPQSA  
GKGGPQEEVTRGPQALGRLRELCRRWLRLPEVHTKEQMLTMLPKEIQAWLQHRPESSEE  
AAALVEDLTQTLQSDFEIQSENGENCNQMDFENESRKIFSEMPEGESAQHSDESDFER  
DAGIQLRQGHSPGEDHGEVVSQDREVGQLIGLQGTYLGEKPYECPQCGKTSRKSHTLITH  
ERTHTGEKYYKCECGKSFSDGSNFSRHQTHTGEKPYKCRDCGKSFSRSANLITHQRIH  
TGEKPFQCAECGKSFSRSPNLIAHQRTHTGEKPYSCPEGKSFGRSSLNTHQGIHTGEK  
PYECKECGESFSYNLIRHQRIHTGEKPYKCTDCGQRFSSALITHRRHTHTGEKPYQC  
SECGKSFSRSSNLATHRRTHMVEKPYKCGVCGKSFSQSSSLIAHQGMHTGEKPYECLTCG  
ESFSWSSNLLKHQRHTGEKPYKCECGKCFQSRSQVLVHQRTHTGEKPYKCLMCGKSFS  
RGSILVMHQRAHLGDKPYRCPEGKGFWSNVLIIHQRIHTGEKPYKCECGKGFSSN  
FITHQRTHMKEKLY

>sp|Q8NEG5|ZSWM2\_HUMAN E3 ubiquitin-protein ligase ZSWIM2 OS=Homo sapiens GN=ZSWIM2 PE=1  
SV=2

MLRRGYKASERRRHLSERLSWHQDQALSSSIYLLREMGPTGFLRREEPEYMDFRVFLGN  
PHVCNCSTFPKGELCKHICWVLLKKFKLPRNHESALQLGLGEREISDLLRGIHRVQTPQ  
PGTNDENEHVEEDGYIKQEIDSEIDCSICQELLEKKLPVTFRCRFGCGNSIHKCMKIL  
ANYQSTSNTSMKCLPCRKEFAPLKLILEEFKNSSKLVA AEKERLDKHLGIPCNNCKQF  
PIEGKCYKCTECIEYHLCQECFSDCHLSHTFTFREKRQKQRSLEKRADEVVKYIDTKN  
EIEEKMSHFQEKQGVYTPKHIVRSLPLQLITKNSKLLAPGYQCLLCLKAFHLGQHTRLL  
PCTHKFHRKCIDNWLPHKCNSCPIDGQVIYNPLTWKNSAVNGQAHQSVSNRDIHLSKQK  
EPDLFIPGTGLVLKQNRGLPSIPQCNFDELNTPQSPKDAYENTTIDNLCISKLDNSNS  
KKLTYDYKISQHFPRYLQDLPTVSFGKIPSQTLLPPIVHKNIVCPTAMESPCISGKFHTS  
LSRMTKGCKCNNHNLKKTATKIREDNKRSTLLPEDFNLIWNSTAKLSLSKRYSNMGE  
ITRKCSHLSRQPVSHSVNTKSTELSLIIEGVQL

>sp|Q8N976|YG039\_HUMAN Putative uncharacterized protein FLJ38264 OS=Homo sapiens PE=5  
SV=1

MISAHCSNLHFLGSSESPTLASQVGEITGTHHHTRLIFVFLVETGFHHVGHAGLELLTSS  
DPPTLASRSAGITGMSHRARPHGISRGEQVTLGLPLELLECVSWPLCGSPLRRAQIVSTP  
PSPLAALRVPVGAEGWGGTEQ

>sp|A4D0T7|YG055\_HUMAN Putative transmembrane protein LINC00998 OS=Homo sapiens  
GN=LINC00998 PE=5 SV=2

MTSVSTQLSLVLSLLLVLPPVVEAVEAGDAIALLLGVVLSITGICACLGYYARKRNGQM

>sp|Q9BWQ6|YIPF2\_HUMAN Protein YIPF2 OS=Homo sapiens GN=YIPF2 PE=1 SV=1

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVSGGSYGAEDEVEEES  
DKAALLQEQQQQQPGFWTFSYYQSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLNRPD  
LYGPFWICATLAFVLAVTGNLTLVLAQRDPSTHYSPQFHKVTVAGISYCYAWLVPLAL  
WGFLRWKGVQERMGPYTFLETVCYGYSLFVFIIPMVVLWLPVPWLQWLFGALALGLSA  
AGLVFTLWPVVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP  
SNIALSPTLPQSLAPS

>sp|Q8N8F6|YIPF7\_HUMAN Protein YIPF7 OS=Homo sapiens GN=YIPF7 PE=2 SV=2

MDLLKISHTKLHLEDLSIKNKQRMSNLAQFSDFYQSNFTIDNQEESGNDNAYGNLYG  
SRKQQAGEQPQASFPSEMLMSSGYAGQFFQPASNSDYYSQSPYIDSFDEEPPLLEELG  
IHFHDIWQKTLTVLNPMPVDGSIMNETDLTGPILFCVALGATLLLAGKVQFGYVYGMSA  
IGCLVIHALLNLMSSSGVSYGCVASVLGYCLLPMVILSGCAMFFSLQGFIMSSSLVIIG  
WCSLSASKIFIAALHMEGQQLLVAYPCAILYGLFALLTIF

>sp|Q6ZUT4|YLO14\_HUMAN Putative uncharacterized protein FLJ43343 OS=Homo sapiens PE=5  
SV=1

MARVHIWPQHTAVNPRLLLENQARAMIHHLMAATPAVFLVSSGPDGSQAKAAAASYLAEP  
PGSPTPGPFSYTKASVVLFLPNPRPNIFKLHSKEQLAECHQYLQSNMRWDFSFAIKTRML  
FLPCSDNV

>sp|P49750|YLPM1\_HUMAN YLP motif-containing protein 1 OS=Homo sapiens GN=YLPM1 PE=1 SV=3

MYPNWGRYGGSSHYPPPPVPPPPVALPEASPGPGYSSSTTPAAPSSSGFMSFREQLAQ  
LQQLQQMHQKQMCVLQPHHLPPPLPPPPVMPGGYGDWQPPPPMPPPPGPALSQKQ  
QQYKHQMLHHQRDGPGLVPMELSPPEPPVPPGSPYMPSPSYMPPPQPPSYPPPTSS  
QPYLPPAQPSQSPPSQSYLAPTPSYSSSSSSQSYLSHSQSYLPSSQASPSRPSQGH  
KSQLLAPPPPSAPPNGKTTVQQEPLESGAKNKSTEQQAAPDPSTMTPEQQQYWRQ  
HLLSLQQRKTVHLPGHKKGPVVAKDTPEPVKEEVTVPATSQVPESPSSEEPPLPPN  
PPPLPEEPQSEDPEEDARLKLQAAAAHWQQHQHVRVGFQYQGIMQKHTQLQQLQYQ  
QIIQPPPHIQATTPPPGIPPPGVPGIPQLTAAPVPPASSSQSQVPEKPRPALLPTPV  
SFGSAPPTYHPPLQSAGPSEQVNSKAPLSKALPYSSFSDDQGLGESSAAPSQPI  
TAVK DMPVRSGLLPDPPRSSYLESPRGPFRFDGPRRFEDLGSRCGPGRKGRFEGNRPDGPRP  
RYEGHPAEGTKSKWGMIPRGPAQFYITPSTSLSPRQSGPQWKGPKPAFGQQHQQPKSQ  
AEPLSGNKEPLADTSSNQKNFKMQSAAFSIAADVKDVKAAQSNENLSDSQQEPKSEVS  
EGPVEPSNWDQNVQSMETQIDKAQAVTQPVPLANKVPVPAQSTFPSTGGMEGGTAVATSS  
LTADNDFKPVGIGLPHSENNQDKGLPRPDNRNRLGNRGNSSSYRGPQSRMEDTRDKG  
LVNRGRGQAI SRGPGLVKQEDFRDKMMGRREDSREKMNREGSRDRGLVRPGSSREKVP  
GLQGSQDRGAAGSRERGPPRRAGSQERGPLRRAGSRERIPRRAGSRERGPPRGPSRER  
GLGRSDFGRDRGPFREPGDGGEKMPYHRDEPPRAPWNHGEERGHEEFPLDGRNAPMER  
ERLDDWDRERYWRECERDYQDDTLELYNREDRFSAPPSRSHDGDRRGPWWDDWERDQDMD  
EDYNREMERDMDRDVDRI SRPMDMYDRSLDNEWDRDYGRPLDEQESQFREERDIPSLPLP  
PLPPLPLDRYRDDRWEERNREHG YDRDFRDRGELRIREYPERGDTWREKRDYVPDRMD  
WERERLSDRWYPSDVRHSPMAEHMPSSHHSSEMMGSDASLSDQGLGVMVLSQRQHEI  
ILKAAQELKMLREKQELQKMKDFGSEPQADHLPPQESRLQNTSSRPGMYPPPGSYRPP  
PPMGKPPGSIVRPSAPPARSSVPVTRPPVPIPPPPPPPLPPPPVVIKPQTSAVEQERWD  
EDSFYGLWDTNDEQLNSEFKSETAAIPSAVLPPPPVHSSI PPPGPVPMGMPMSKPPP  
VQQTVDYGHGRDISTNKVEQIPYGERITLRPDPLPERSTFETEHAGQRDRYDRERDREPY  
FDRQSNVIADHRDFKRDRETHRDRDRDRGV IDYDRDRFDRERRPRDDRAQSYRDKKDHSS

SRRGGFDRPSYDRKSDRPVYEGPSMFGGERRTYPEERMPLPAPSLSHQPPPAPRVEKKPE  
SKNVDDILKPPGRESRPERIVVIMRGLPGSGKTHVAKLIRDKEVEFGGPAPRVLSLDDYF  
ITEVEKEEKDPDPSGKKVKKVMEYEYEAEMEETYRTSMFKTFKKTLDGFFPFIILDAIN  
DRVRHFDQFWSAAKTGFVYLAEMSADNQTCKGRNIHGRKLKEINKMADHWETAPRHMM  
RLDIRSLLQDAAIEEVEMEDFDANIEEQKEEKDAEEEESELGYIPKSKWEMDTSEAKLD  
KLDGLRTGTRKRDRWEAIASRMEDYLQLPDDYDTRASEPGKKRVRWADLEEKDADRKRA  
IGFVVGQTDWEKITDESGHLAEKALNRTKYI

>sp|Q6ZRG5|YQ015\_HUMAN Putative uncharacterized protein FLJ43944 OS=Homo sapiens PE=5  
SV=1

MMRWNFSPEDLSSIFRNNSTLPKITVKNVDIEFTIPTAVTIEVEPSPVQQDNPPISSEQA  
DFSLAQPDSPSLPLESPEESEAQQEATAQTPNPPKEVEPSPVQQEFPAEPTPAKEVE  
PSATQQEASGHPLKSTKEVNPPPKQEIPAQPSEPPEKVELSPVLQQAPTQLLEPLKKVEC  
SPVQQAVPAQSSEPSIVVEPSPVQQIAHLCLQSSLRKWNPL

>sp|A6NJJ4|YQ041\_HUMAN Putative transmembrane protein LOC100289255 OS=Homo sapiens PE=5  
SV=2

MLGSLWGRCHPGCCALFLILALLLDAVGLVLLLLGILAPLSSWDFFIYTGALILALSLL  
LWIIWYSLNIEVSPEKLDL

>sp|Q6ZWC4|YS043\_HUMAN Putative uncharacterized protein LOC100128429 OS=Homo sapiens PE=5  
SV=1

MCWKGHWPRPEGRNLACSKGSPGWRTAGQGSGSYGAATLGKGTEQRGVGALRRGLLSFTC  
FCLSNWTSAGGFSEMGSRFEEGRGLGYSSDVLARPTMSPTMLRSRALNLGAATVLRH  
RAPQGTSSYQEGRAHEATSAESDDNGVQVLASLAVSCAQHSRHKDPVGTQLQACAQV  
PTRASPLWPCPSHRLMHSTDGPLDPEPLSTLLPAA

>sp|I3L1I5|YS060\_HUMAN Putative uncharacterized protein LOC100996504 OS=Homo sapiens PE=5  
SV=1

MGDDQEDDFPRRLSESMEDLSLDLQSGEYLQDLGLGAPSHSQPGETPDSRPTGEEPG  
RDSLFSLAGSQDLSRRRSWERSRSCSESWRRLSLDASAVDEEPCLPRTLASLALNLPGG  
GLKTWTQGCLSGGGTPAESPGKECDSPKKGRSRSVPVSFYEIRSPEISPGLEVTPPVQ  
GLEPPVLECKMEKDHPDHLIVQQVLQELRQYHGARQRACMSASPGGAHSNLTWFEFLS  
ESEDGAGKNEKSDKSTSVKRRLSCLRSRVTRQKEKGKSPAHLKDKGQDARERRECYNHGQ  
LLQGTFSGPSSCPLCGKPFLLSSGSGGPIHPPGGQPLSLHLVLSIILLGSLLMCASSFCF  
ALSSAAPWREPGISPWAQGPLG

>sp|Q96MU7|YTDC1\_HUMAN YTH domain-containing protein 1 OS=Homo sapiens GN=YTHDC1 PE=1  
SV=3

MAADSREEKDGEINVLDDILTEVPEQDDELYNPESEQDKNEKKGSKRKSDRMESTDTKRQ  
KPSVHSRQLVSKPLSSSVSNNKRIVSTKGKSATEYKNEEYQRSENRKRLDADRKIRLSSS  
ASREPYKNQPEKTCVRKRPERRAKSPTPDGSEIRIGLEVDRRASRSSQSSKEEVNSEEY  
SDHETGSSGSDEQGNNTENEEGVEEDVEEDEVEEDAEEDEVEDEDEEEEEEEEEEE  
EEEEEEEEEEYEQDERDQKEEGNDYDTRSEASDGSSESVSFTDGSVRSRSGTDGSDEKKKE  
RKRARGISPIVFRSGSSASESYAGSEKKHEKLSSSVRAVRKDQTSKLKYVLQDARFFLI  
KSNHENVSLAKAGVWSTLPVNEKKLNLAFRSARSVILIFSRESGKFQGFARLSSESH  
HGGSPIHWLVPAGMSAKMLGGVFKIDWICRRELPTKSAHLTNPWNEHKPVKIGRDGQEI  
ELEGTLCLLFPDESIDLQYVHKMRHKRRMHSPRSRGRPSRREPVRDVGRRRPEDY  
DIHNSRKKPRIDYPPEFHQRPYGLKDPYQEVDRRFSGVRRDVFNLGSYNDYVREFHNMG

PPPPWQGMPPYPGMEQPPHHPYQHHAAPPQAHPYPYSGHHPVPHEARYRDKRVHDYDMRV  
DDFLRRTQAVVSGRRSRPRERDRERERDRPRDNRRDRERDRGRDRERERERLCDRDRDRG  
ERGRYRR

>sp|Q96M85|YV008\_HUMAN Putative uncharacterized protein FLJ32756 OS=Homo sapiens PE=2  
SV=1

MSHSRRAAPTQDQCHTPGFPTSRETSGSIWQARICGSLQALDTWRTHIPRKSPAPTQASQ  
ICLLLPESPWRNPTRGFLKPLINWDAILYFKEKRNIQVTTQAHPQNAQSCSSQEVATPG  
LVPQAAAPKVYERSHDNLNAEAQGLAGAQVSKPQNPITRLCSLKEQSILKIFTKQSI

>sp|Q8ND82|Z280C\_HUMAN Zinc finger protein 280C OS=Homo sapiens GN=ZNF280C PE=1 SV=1

MDDDKPFQPKNISKMAELFMECEEEEELEPWQKKVEETQDEDDDELIFVGEISSSKPAISN  
ILNRGHSSSSSKGIKSEPHSPGIPEIFRTASQRCRDPPSNPVAASPRFHLVSKSSQSSVT  
VENASKPDFTKNSQVGSNDSSILLFDSTQESLPPSQDIPAIFREGMKNTSYVLKHPSTSK  
VNSVTPKKPKTSEDVPQINPSTSLPLIGSPPVTSSQVMSKGTNTSSPYDAGADYLRACP  
KCNVQFNLLDPLKYHMKHCCPDMITKFLGVIKSERPCDEDKTDSETGKLIMLVNEFYYG  
RHEGVTEKEPKTYTTFKCFSCSKVLKNNIRFMNHMKHHLELEKQNNESWENHTTCQHCYR  
QYPTPFQLQCHIESTHTPHEFSTICKICELSFETEHILLQHMKDTHKPGEMPYVCQVCQF  
RSSTFSDVEAHFRAAHENTKNLLCPFCLKVSKMATPYMNHMKHQKKGVHRCPCRLQFL  
TSKEKAEHKAQHRTFIKPKLEGLPPGAKVTIRASLGPLQSKLPTAPFGCAPGTSFLQVT  
PPTSQNTTARNPRKSNASRSKTSKLHATTSTASKVNTSKPRGRIAKSKAKPSYKQKRQRN  
RKNKMSLALKNIRCRRGIIHKCIECHSKIKDFASHFSIYIHCSFCKYNTNCNAFVNHMMS  
SHSNHPGKRFCIFKKHSGTLRGITLVCLKCDFLADSSGLDRMAKHLQKKTHTCQVIEEN  
VSKSTSTSEPTTGCSLK

>sp|Q9Y2Y4|ZBT32\_HUMAN Zinc finger and BTB domain-containing protein 32 OS=Homo sapiens  
GN=ZBTB32 PE=1 SV=1

MSLPPIRLPSPYGSDDLVLQLAARLRPALCDTLITVGSQEFPASHSLVLAGVSQQLGRRGQW  
ALGEGISPSTFAQLLNLFVYGESVELQPGELRPLQEAARALGVQSLEEACWRARGDRAKKP  
DPGLKKHQEEPEKPSRNPRELGDPEGKQKPEQVSRTGGREQEMLHKHSPPRGRPEMAGA  
TQEAQQEQTRSKEKRLQAPVGGRGADGKHGVLTLWRENPGGSEESLRKLPGPLPPAGSLQ  
TSVTPRPSWAEAPWLVGQPALWSILLMPPRYGIPFYHSTPTTGAWQEVWREQRIPLSLN  
APKGLWSQNQLASSSPTPGSLPQGPAQLSPGEMEESDQGTGALATCAGHEDKAGCPRP  
HPPAPPARSRPYACSVCGKRFSCLKHQMETHYRVHTGEKPFSCSLCPQRSRDFSAMTKHL  
RTHGAAPYRCSLCGAGCPSLASMAHMRGHSPSQLPPGWTIRSTFLYSSSRPSRPSTSPC  
CPSSSTT

>sp|Q8NCN2|ZBT34\_HUMAN Zinc finger and BTB domain-containing protein 34 OS=Homo sapiens  
GN=ZBTB34 PE=1 SV=4

MDSSSFIQFDVPEYSSTVLSQLNELRLQGKLCDIIVHIQGGPFRAHKAVLAASSPYFRDH  
SALSTMSGLSISVIKNPNVFEQLLSFCYTGRMSLQLKDVSFLTAASFLQMQCVIDKCTQ  
ILESIIHSKISVGDVDSVTVGAEENPESRNGVKDSSFFANPVEISPPYCSQGRQPTASSDL  
RMETTPSKALRSRLQEEGHSDRGSSGSVSEYEIQIEGDHEQGDLVRESQITEVKVKMEK  
SDRPSCDSSSLGDDGYHTEMVDGEQVAVNVGSYGSVLQHAYSYSQAASQPTNVSEAFG  
SLSNSSPSRSMSCFRGGRARQKRALSVHLHSDLQGLVQGSSEAMMNPGEYESSPRERS  
ARGHWYPYNERLICIYCGKSFNQKGS�DRHMLHMGITPFVCKFCGKKYTRKDQLEYHIR  
GHTDDKPFRCIECGKCFPFQGTNLQHLRKNHPGVAEVRRIESPRTDVVEQKLENDAS  
ASEMGLDSRMEIHTVSDAPD

>sp|Q8NAP3|ZBT38\_HUMAN Zinc finger and BTB domain-containing protein 38 OS=Homo sapiens  
GN=ZBTB38 PE=1 SV=2

MTVMSLSRDLKDDFHSDTVLSILNEQRIRGILCDVTIIVEDTKFKAHSNVLAASSLYFKN  
IFWSHTICISSHVLELDDLKAEVFTEILNYIYSTVVVKRQETVTDLAAAGKKLGISFLE  
DLTDRNFSNSPGPYVFCITEKGVVKEEKNEKRHEEPAITNGPRITNAFSIIETENSNNMF  
SPLDLRASFKKVSDSMRTASLCLERTDVCHEAEPVRTLAESYAVSSVAEAYRSQPVREH  
DGSSPGNTGKENCEALAAKPKTCRKPKTFSIPQSDSATENIPPPVSNLEVNQERSQPQ  
AAVLTRSKSPNNEGDVHFSREDENQSSDVPGPAAEVPLVYNCSCSKAFDSSTLLSAH  
MQLHKPTQEPLVKYCNKQFTTLNRLDRHEQICMRSSHMPIPGGNQRFLENYPTIGQNGG  
SFTGPEPLLENRIGEFSSSTGSTLPDTHMVKFVNGQMLYSCVVKRSYVTLSSLRRHAN  
VHSWRRTPCHYCNKFALAEYRTRHEIWHTGERRYQCIFCLETFTMYIYLKNHQKSFHA  
IDHRLSISKKTANGGLKPSVYPYKLYRLLPMKCKRAPYKSYRNSSYENARENSQMNESAP  
GTYYVQNPHSSELPTLNFQDTVNTLTNSPAIPLETSACQDIPTSANVQNAEGTKWGEEAL  
KMDLDNNFYSTEVSVSSTENAVSSDLRAGDVPVLSLSNSSENAASVISYSGSAPSVIVHS  
SQFSSVIMHSNAIAAMTSSNHRAFSDPAVSQSLKDDSKPEPDKVGRFASRPKSIKEKKKT  
TSHTRGEIPEESNYVADPGGSLSKTTNIAEETSKIETYIAKPALPGTSTNSNVAPLCQIT  
VKIGNEAIVKRHILGSKLFYKGRRRPKYQMQEEPLPQGNDEPSGDSPLGLCQSECMEMS  
EVFDDASDQDSTDKPWRPYNYKPKKSRQLKMRKVNWRKEHGNRSPSHKCKYPAELDC  
AVGKAPQDKPFEEEEKEMPKLQCELCGDGKAVGAGNQGRPHRLTSRPYACELCAKQFQ  
SPSTLKMHMCHTGEKPYQCKTCGRCFSVQGNLQKHERIHLGLKEFVCQYCNKAFTLNET  
LKIHERIHTGEKRYHCQFCFQRFYLYLSTKRNEQRHIREHNGKGYACFCPKICKTAAAL  
GMHQKKHLFKSPSQEKIGDVCHENSNPLENQHFIGSEDNDQKDNIQTGVENVVL

>sp|Q86UZ6|ZBT46\_HUMAN Zinc finger and BTB domain-containing protein 46 OS=Homo sapiens  
GN=ZBTB46 PE=1 SV=2

MNNRKEDMEITSHYRHLLRELNEQRQHGVLCDVCVVVEGKVFKAHKNVLLGSSRYFKTLY  
CQVQKTSEQATVTHLDIVTAQGFKAIIDFMYSAHLALTSRNVIEVMSAASFLQMTDIVQA  
CHDFIKAALDISIKSDASDELAEFEIGASSSSSTEALISAVMAGRSISPWLARRTSPANS  
SGDSAIAASCHDGGSSYGKEDQEPKADGPDDVSSQPLWPGDVGYGPLRIKEEQVSPSQYGG  
SELPSAKDGAVQNSFSEQSAGDAWQPTGRRKNRKNKETVRHITQQVEDDSRASSPVPSFL  
PTSGWPFSSRDSNADLSVTEASSSDSRGERAELYAQVEEGLLGGEASYLGPPLTPEKDDA  
LHQATAVANLRAALMSKNSLLSKADVLGDDGSLLFEYLPARGHSLSLNEFTVIRKKFKC  
PYCSFSAMHQCILKRHMRSHTGERPYPCEICGKKFTRREHMKRHTLVHSDKKYVCKVCS  
RVFMSAASVGIRHGSRRHGVTDCAGRGMAGPLDHGGGGGEGSPEALFPGDGPYLEDPED  
PRGEAEELGEDDEGLAPEDALLADDKDEEDSPRPRSPGGPDKDFAWLS

>sp|Q6ZSB9|ZBT49\_HUMAN Zinc finger and BTB domain-containing protein 49 OS=Homo sapiens  
GN=ZBTB49 PE=1 SV=3

MDPVATHSCHLLQQLHEQRIQGLLCDMLVVKGVCFKAHKNVLAAFSQYFRSLFQNSSSQ  
KNDVFHLDVKNVSGIGQILDFMYTSHLDLNQDNIQVMLDTAQCLQVQNVLSLCHTFLKSA  
TVVQPPGMPCNSTLSLQSTLTPDATCVISENYPPHLLQECSADAQQNKTLDESHPHASPS  
VNRHHSAGEISKQAPDTS DGSCTELFPKQPNYYYKLRNFYSKYHKAAGPSQERVVEQP  
FAFSTSTDLTTVESQPCAVSHSECILESPEHLPSNFLAQPVNDSAPHPESDATCQQPVKQ  
MRLKKAHLKKNLFLKSQKYAEQVSEPKSDDGLTKRLESASKNTLEKASSQSAEKESEE  
VVSCENFNCISETERPEDPAALDQSQTLQSQRYACELCGKPFKHPNLELHKRSHTGE  
KPFECNICGKHFSQAGNLQTHLRRHSGEKPYICEICGKRFAASGDVQRHIIHSGEKPHL

CDICGRGFSNFSNLKEHKKHTADKVFTCECGKSFMQRKLVKHRIRHTGERPYSCSAC  
GKCFGSGDLRRHVRTHTEKPYTCEICNKCFTRSAVLRRHKMHCKAGDESPDVLEELS  
QAIETSDLEKSQSSDSFSQDTSVTLMPVSVKLPVHPVENSVAEFDSSHSGGSYCKLRSMIQ  
PHGVSDQEKLSDPGKLAKPQMQTQPQAYAYSVDVTPAGGEPLQADGMAMIRSSLAALD  
NHGGDPLGSRASSTTYRNSEGQFFSSMTLWGLAMKTLQENELDQ

>sp|A1YPR0|ZBT7C\_HUMAN Zinc finger and BTB domain-containing protein 7C OS=Homo sapiens  
GN=ZBTB7C PE=2 SV=1

MANDIDELIGIPFNHSSSEVLCSLNEQRHDGLLCDVLLVVQEYRTHRSVLAACSKYFK  
KLFTAGTLASQPYVEIDFVQPEALAAILEFAYTSTLTITAGNVKHILNAARMLEIQCIV  
NVCLEIMEPGDGGEEDDKEDDDDDDEDEEEEEEEEEEDDDDDTEDFADQENLPDP  
QDISCHQSPSKTDHLTEKAYSDTPRDFPDSFQAGSPGHLGVIRDFSIESLLRENLYPKAN  
IPDRRPSLSPFAPDFPHLWPGDFGAFAQLPEQPMDSGPLDLVIKNRKIKEEEKEELPPP  
PPPPFPNDFFKDMFPDLPGGPLGPIKAENDYGAYLNFLSATHLGGFLPPWPLVEERKLKP  
KASQQCPICHKVIAGAGKLPRHMRTHTEKPYMCTICEVRFTRQDKLIHMRKHTGERPY  
LCIHCNAKFVHNYDLKNHMRITGVRPYQCEFCYKSFTRSDHLHRHIKRQSCRMARPRRG  
RKPAAWRAASLLFGPGGPAPDKAAFMPPALGEVGGHLGGAAVCLPGPSPAKHFLAAPKG  
ALSLQELERQFEETQMKLFGRAQLEAERNAGGLLAFALAENVAARPYFPLPDPWAAGLA  
GLPGLAGLNHVASMSEANN

>sp|Q96BR9|ZBT8A\_HUMAN Zinc finger and BTB domain-containing protein 8A OS=Homo sapiens  
GN=ZBTB8A PE=1 SV=2

MEISSHQSHLLQQLNEQRRQDVFCDCSILVEGKVFKAHRNVLFASSGYFKMLLSQNSKET  
SQPTTATFQAFSPDTFTVILDFVYSGKLSLTGQNVIEVMSAASFLQMTDVISVCKTFIKS  
SLDISEKEKDRYFSLSDKDANSNGVERSSFFYSGGWQEGSSSPRSHLSPEQGTGIISGKSW  
NKYNYHPASQKNTQQPLAKHEPRKESIKKTKHLRLSQPSEVTHYKSSKREVRTSDSSSHV  
SQSEEQAQIDAEMDSTPGYQYGGGSDVTSKSFDDLPRMRFKCPYCTHVVKRKADLKRH  
LRCHTGERPYPCQACGRFSRLDHLSSHRTIHQACKLICRKCKRHVTDLTGQVVQEGTR  
RYRLCNECLAIEFGIDSLPIDLEAEQHLMSPSDGDKDSRWHLSEDENRSYVEIVEDGSGDL  
VIQQVDDSEEEEEKEIKPNIR

>sp|Q9H5J0|ZBTB3\_HUMAN Zinc finger and BTB domain-containing protein 3 OS=Homo sapiens  
GN=ZBTB3 PE=1 SV=1

MLREFSKWGEASPGKAWERKRSLLRGAVGRYRGATGGDLFWAPFPSWGTMEFPEHSQQL  
LQSLREQRSQGFLCDCTVMVGSTQFLAHRVLAASCSPFFQLFYKERELDKRDLVCIHNEI  
VTAPAFGLLLDFMYAGQLTLRGDTPVEDVLAASYLHMNDIVKVCKRRLQARALAEADST  
KKEETNSQLPSLEFLSSTSRGTQPSLASAETSGHWGKGWKGSAAPSPTVRPPDEPPMS  
SGADTTQPGMEVDAPHLRAPHPVADVSLASPSSSTETIPTNYFSSGISAVSLEPLPSLD  
VGPESLRVVEPKDPGGPLQGFYPPASAPTSAPAPVSAPVPSQAPAPAEAEVLQVKVEAIV  
ISDEETDVSDEQPQGPAPAFSPGGAVYGAQPSQPEAFEDPGAAGLEEVGPSDHFLPTDPH  
LPYHLLPGAGQYHRGLVTSPLPAPASLHEPLYLSSYEAAAGSFGVFTEDVPTCKTCGKT  
FSCSYTLRRHATVHTRERPYECRYCLRSYTSQSGDLYRHIRKAHNEDLAKRSKPDPEVGPL  
LGVQPLPGSPTADRQSSSGGPPKDFVLAPKTNI

>sp|Q9COD7|ZC12C\_HUMAN Probable ribonuclease ZC3H12C OS=Homo sapiens GN=ZC3H12C PE=1 SV=2

MPGGGSQYEGVLCIQEYRKNSKVESSTRNFMGLKDHLGHDLGHLVVESTDPQLSPAVPW  
STVENPSMDTVNVGKDEKEASEENASSGDSEENTNSDHESEQLGSI SVEPGLITKTHRQL  
CRSPCLEPHILKRNEILQDFKPEESQTTSKEAKKPPDVVREYQTKLEFALKLGYSEEQVQ

LVLNKLGTDALINDILGELVKLGNKSEADQTVSTINTITRETSSLESQRSESPMQEIVTD  
DGENLRPIVIDGSNVAMSHGNKEVFSRGIKLAVDWFLERGHKDITVFVPAWRKEQSRPD  
ALITDQEILRKLEKEKILVFTPSRRVQGRRVVCYDDRFIVKLAFESDGIIVSNDNYRDLA  
NEKPEWKKFIDERLLMYSFVNDKFMPDDPLGRHGPSLDNFLRKKPIVPEHKKQPCPYGK  
KCTYGHKCKYYHPERGSQPQRSVADELRAMSRNTAAKTANEGGLVKSNSVPCSTKADSTS  
DVKRGAPKRQSDPSIRTQVYQDLEEKLPKTKLETRSVPSLVSSIPATSTAKPQSTTSLSN  
GLPSGVHFPPQDQRPQGQYPSMMMATKNHGTPMPYEQYPKCDSPVDIGYYSMNLNAYSNLS  
LSGPRSPERRFSLDTDYRISSVASDCSSEGSMSGSSDSYVGYNDRSYVSSPDPQLEENL  
KCQMHMPSRLNPQFLQNFHDPLTRGQSYSHEEPKFHHKPPPLHLALHLPASVAGARSS  
CPGDYSPSSSAHSKAPHLGRSLVATRIDSISDSRLYDSSPSRQRKPYSRQEGLSWERP  
GYGIDAYGYRQTYSLPDNSTQPCYEQFTFQSLPEQQEPAWRIPYCGMPQDPPRYQDNREK  
IYINLCNIFPPDLVRIVMKRNPHTDAQQLAAAILVEKSQLGY

>sp|Q9NXF8|ZDHC7\_HUMAN Palmitoyltransferase ZDHC7 OS=Homo sapiens GN=ZDHC7 PE=1 SV=2

MQPSGHRLRDVEHHPLLAENDNYDSSSSSSSEADVADRVWFIRDGCGMICAVMTWLLVAY  
ADFVTVFVMLLPKDFWYSVNVGIFNCLAVLALSSHLRTMLTDPGAVPKGNATKEYMES  
LQLKPGEVYKCPKCCCIKPERAHHCSICKRCIRKMDHHCWPVNNCVGEKNQRFFVLFTM  
YIALSSVHALILCGFQFISCVRGQWTECSDFSPITVILLIFLCLEGLLFFFTAVMFGT  
QIHSICNDETEIERLKSEKPTWERRLRWEGMKSVFGGPPSLLWMNPFVGFRRRLPTRPR  
KGGPEFSV

>sp|Q8N141|ZFP82\_HUMAN Zinc finger protein 82 homolog OS=Homo sapiens GN=ZFP82 PE=2 SV=1

MALRSVMFSDVSDFSPEEWEYLDLEQKDLYRDVMLENYSNLVSLGCFISKPDVISSLEQ  
GKEPWKVVVRKRRQYPDLETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKND  
WESTGKIEGQERPQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLLHFVDKPYECKEKGKAFR  
VRQQLTFHHRIHTGEKPYECKEKGMAFRQTAHLTRHQRLLHSGEKLYECKEKGAFICGAD  
LRVHQMHIGEKPYECKEKGKAFVRGQLTLHQRIHTGEKPYVCKECKGAFRQYAHLTRH  
QKLNSADRLYECKECKGAFLCGSLRVHHLHTGEKPYECKECKGAFVRQQLTLHQRIH  
TGEKPYECKECKGTFSRGYHLILHHRIHTGEKPYECKEKGAFSRYSQLISHQSIHIGVK  
PYDCKECKGAFRLLSQLTQHQSIIHIGEKPYCKECKGAFRLRQKLTLHQSIIHTGEKPFEC  
KECRKAFRLNSSLIQHLRIHSGEKPYECKECKGAFRQHSHTHLKIHNVKI

>sp|O95159|ZFPL1\_HUMAN Zinc finger protein-like 1 OS=Homo sapiens GN=ZFPL1 PE=1 SV=2

MGLCKCPKRKVTNLCFEHRVNVCEHCLVANHAKCIVQSYLQWLQSDSYNPNCRCLNIPL  
ASRETTRLVCYDLFWHACLNERAAQLPRNTAPAGYQCPCSCNGPIFPPTNLGPVASALRE  
KLATVNWARAGLGLPLIDEVVSPEPEPLNTSDFSDWSSFNASSTPGPEEVDASAAPAFY  
SQAPRPPASPGRPEQHTVIHMGNPPELTHAPRKVYDTRDDRTPLHGDCCDDKYRRRPA  
LGWLARLLRSRAGSRKRPLTLLQRAGLLLLLGLLGFLALLALMSRLGRAAADSDPNLDPL  
MNPHIRVGPS

>sp|P17010|ZFX\_HUMAN Zinc finger X-chromosomal protein OS=Homo sapiens GN=ZFX PE=2 SV=2

MDEDGLELQQEPNSFFDATGADGTHMDGDQIVVEVQETVVFSDVVDSDITVHNFPDDPD  
SVVIQDVIEDVVEDVQCPDIMEEADVSETVIIPEQVLDSDVTEEVSLAHCTVPDDVLAS  
DITSASMSMEHVLTDGSIHVSVDVGHVGHVGHVHVHDSVVEAEIVTDPLTTDVVSEEV  
LVADCASEAVIDANGIPVDQDDDKGNCEDYLMISLDDAGKIEHDGSSGMTMDTESEIDP  
CKVDGTCPEVIKVIYIFKADPGEDDLGGTVDIVSEPENDHGVLLDQNSSIRVPREKMVY  
MTVNSQPEDEDLNVAEIADEVYMEVIVGEEDAAAAAAAHVHEQQMDDNEIKTFMPIAW  
AAAYGNNSDGIENRNGTASALLHIDESAGLGRLLAKQKPKKRRRPDSRQYQTAIIGPDGH



PLTVYPCMICGKKFKSRGFLKRHMKNHPEHLAKKKYRCTDCDYTTNKKISLHNHLESHKL  
TSKAEKAIIECDECGKHFHSHAGALFTHKMVHKEKGANKMHKCKFCEYETAEQGLLRHLLA  
VHSKNFPHICVECGKGFRHPSELKKHMRihtGEKPYQCQCEYRSADSSNLKTHVTKHS  
KEMPFKCDICLLTFSDTKEVQQHALIHQESKTHQCLHCDHKSSNSDLKRHIISVHTKDY  
PHKCDMCDKGFHRPSELKKHVAAHKGKKMHQCRHCDFKIADPFVLSRHILSVHTKDLPR  
CKRCRKGFRRQQSELKKHMKTHSGRKVYQCEYCEYSTTDASGFKRHVISIHTKDYPHRCEY  
CKKGFRRPSEKNQHIMRHHKEVGLP

>sp|Q7Z3T8|ZFY16\_HUMAN Zinc finger FYVE domain-containing protein 16 OS=Homo sapiens  
GN=ZFYVE16 PE=1 SV=3

MDSYFKAASDLKLLDDFEQNPDQDYLQDVQNAYDSNHCSVSSELASSQRTSLLPKDQ  
ECVNSCASSETSYGTNESSLNEKTLKGLTSIQNEKNVTGLDLLSSVDGGTSDEIQPLYMG  
RCSKPIDCLISDMGNLVHATNSEEDIKLLPDDFKSNADSLIGLDLSSVSDTPCVSSTDH  
DSDTVREQQNDISSELQNREIGGIKELGIKVDTTLSDSYNSGTENLKDKKIFNQLESIV  
DFNMSSALTRQSSKMFHAKDLQHKSQPCGLLKDVGLVKEEVDVAVITAAECLKEEGKTS  
ALTCSLPKNEDLCLNDSNSRDENFKLPDFSFQEDKTVIKQSAQEDSKSLDLKDNDVIQDS  
SSALHVSSKDVPSLSCLPASGSMCGSLIESKARGDFLPQHEHKDNIQDAVTIHEEIQNS  
VVLGGEPFKENDLLKQEKCKSILLQSLIEGMEDRKIDPDQTVIRAESLDGGDTSSTTVES  
QEGLSGTHVPESDCCCEGFINTFSSNDMDGQDLDFYFNIDEGAKSGPLISDAELDAFLTEQ  
YLQTTNIKSFEENVNDSKQMNQIDMKGLDDGNINNIYFNAEAGAIGESHGINICEIVD  
KQNTIENGLSLGEKSTIPVQQGLPTSKEITNQLSVSDINSQSVGGARPKQLFSLPSRTR  
SSKDLNKPDPDTIESEPSTADTVVPITCAIDSTADPQVSFNSNYIDIESNSEGGSSFVT  
ANEDSVPENTCKEGLVLGQKQPTWVPDSEAPNCMNCQVKFTFTKRRHHCACGKVFCGVC  
CNRKCKLQYLEKEARVCVVCYETISKAQAFERMMSPGSLNLSNHSDECTTVQPPQENQT  
SSIPSPATLPVSALKQPGVEGLCSKEQKRVWFADGILPNGEVADTTKLSSGSKRCSEDFS  
PLSPDVPMTVNTVDHSHSTTVEKPNNETGDIRNEIIQSPISQVPSVEKLSMNTGNEGLP  
TSGSFTLDDDVFAETEPPSPTGVLVNSNLPASISDYRLLCDINKYVCNKISLLPNDED  
SLPPLLVASGEKGSVPVVEEHPSEHQIILLLEGESFHPVTFVLNANLLVNVKFIYSSDK  
YWFSTNGLHGLGQAEIIILLCLPNEDTIPKIDIFRLFITIYKDALKGKYIENLDNITFT  
ESFLSSKDHHGGLFITPTFQKLDDLSPSNPFLCGILIQKLEIPWAKVFPMLMLRLGAE  
YKAYPAPLTSIRGRKPLFGEIGHTIMNLLVDLRNYQYTLHNIDQLLIHMEMGKSCIKIPR  
KKYSDVMKVLNSSNEHVISIGASFSTEADSHLVCIQNDGIYETQANSATGHPKVTGASF  
VVFNGALKTSSGFLAKSSIVEDGLMVQITPETMNGRLRLALREKQDFKITCGKVDVDLRE  
YVDICWDAEEKGNKGVISSVDGISLQGFPEKIKLEADFETDEKIVKCTEVFYFLKDQD  
LSILSTSYQFAKEIAMCSAALCPHLKTLKSNGMNKIGLRVSIDTDMVEFQAGSEGQLLP  
QHLYNDLDSALIPVIHGGTSNSSLPLEIELVFFIIEHLF

>sp|Q9BQ24|ZFY21\_HUMAN Zinc finger FYVE domain-containing protein 21 OS=Homo sapiens  
GN=ZFYVE21 PE=1 SV=1

MSSEVSARRDAKKLVRSPSGLRMVPEHRAFGSPFGLEEPQWVPDKECRRCMQCDAKFDFL  
TRKHHCCRCKGKCFDRCCSQKVP LRRMCFVDPVRQCAECALVSLKEAEFYDKQLKVLLSG  
ATFLVTFGNSEKPEMTCLRSNNQRYLFLDGDShYEIEIVHISTVQILTEGPPGGGNAR  
ATGMFLQYTVPGTEGVTQLKLTVEDVTVGRRQAVAWLVAMHKAAKLLYESRDQ

>sp|Q7Z398|ZN550\_HUMAN Zinc finger protein 550 OS=Homo sapiens GN=ZNF550 PE=1 SV=2

MAETKDAAQMLVTFKDVAVTFTREEWRQLDLAQRtLYREVMLETCGLLVSLGHRVPKPEL  
VHLLHGGELWIVKRGLSHATCAGDRAQVHTREPTTYPPVLSEAFRLRGSLTLESSTSSD

SRLGRARDEEGLLEMQKGKVTPETDLHKETHLGKVSLEGEGLGTDGLHSRALQEWLSAD  
VLHECDSQQPGKDALIHAGTNPYKCKQCGKGFNRKWYLVRHQRVHTGMKPYECNACGKAF  
SQSSTLIRHYLIHTGEKPYKCLECGKAFKRRSYLMQHHP IHTGEKPYECSQCRKAFTHRS  
TFIRHNRTHTGEKPFECKECEKAFSNRAHLIQHYI IHTGEKPYDCMACGKAFCSSSELIQ  
HQR IHTGEKPYECTQCGKAFHRSTYLIQHSV IHTGEMPYKCTECGKAFKRRSHLLQHQRV  
HT

>sp|Q8N184|ZN567\_HUMAN Zinc finger protein 567 OS=Homo sapiens GN=ZNF567 PE=1 SV=3  
MAQGSVSFNDVTVDFTQEEWQHLDHAQKTLYMDVMLENYCHLISVGCHMTKPDVILKLER  
GEEPWTSFAGHTCLEENWKAEDFLVKFKEHQEKYSRSVVSINHKKLVKEKSKIYEKFTL  
GKNPVNSKNLPPEYDTHGRILKNVSELIISNLPARKRLSEYNGYGKSLSTKQETTHPE  
VKSHNQSARAFSHNEVLMQYQKTETPAQSFQYNDCEKSFLQRGGLITHSRPYKGENPSVY  
NKKRRATNIEKKHTCNECGKSFCRKSVLILHQGIHSEKPYQCHQCGNAFRRKSYLIDHQ  
RTHHTGEKPFVCNECGKSFRKLTALTDHQRTHTEKSYECLQCRNAFRLKSHLIRHQRTH  
TEKPYECNDCGKSFRQKTTLSLHQRIHTGEKPYICKECGKSFHQKANLTVHQRTHTEKPY  
YICNECGKSFSQKTTALHEKTHNEKPYICSECGKSFRQKTTLVAHQRTHTEKSYECP  
HCGKAFRMKSYLIDHHRTHTEKPYECNECGKSFSQKTNLNLHQRIHTGEKPYVCNECGK  
SFRQKATLTVHQKIHTGQKSYECPQCGKAFSRKSYLIHHQRTHTEKPYKSECGKCFRQ  
KTNLIVHQRTHTEKPYVCNECGKSFSYKRNLIHVHQRTHKGENIEMQ

>sp|Q7Z3V5|ZN571\_HUMAN Zinc finger protein 571 OS=Homo sapiens GN=ZNF571 PE=2 SV=3  
MPHLLVTRDVAIDFSQEEWECLDPAQRDLYRDVMLENYSNLISLDLESSCVTKLSPEK  
EIIYEMESLQWENMGKRINHLLQYNGLDNMECKGNLEGQEASQEGLYMCVKITCEEKATE  
SHSTSSTFHRIIPTKEKLYKCKEQRQGFSYLSCLIQHEENHNIEKCSEVKKHRNTFSKKP  
SYIQHQRIQTGEKPYECMECGKAFGRSDLIHQKIHTEKPYQCNACGKA FIRGSQLTE  
HQRVHTGEKPYECKKCGKAFSYCSQYTLHQRIHSGEKPYECKDCGKA FILGSQLTYHQRI  
HSGEKPYECKEKGAFILGSHLTYHQRVHTGEKPYICKECGKAFLCASQLNEHQRIHTGE  
KPYECKEKGKTFFRGSQLTYHLRVHSGERPYPYCKEKGKAFISNSNLIHQHQRIHTGEKPYK  
CKEKGKAFICGKQLSEHQRIHTGEKPFECKECGKAFIRVAYLTQHEKIHGEKHYECKEKG  
KTFVRATQLTYHQRIHTGEKPYCKECDKAFIYGSQLEHQRIHRGEKPYECKQCGKAFI  
RGSHLTEHLRTHTEKPYECKEGRAFSRGSELT LHQRIHTGEKPYTCVQCGKDFRCPSQ  
LTQHTRLHN

>sp|Q96SQ5|ZN587\_HUMAN Zinc finger protein 587 OS=Homo sapiens GN=ZNF587 PE=1 SV=1  
MAAAVPRRPTQQGTVT FEDVAVNFSQEEWCLLSEAQRCLYRDVMLENLALISSLCWCWS  
KDEEAPCKQRISVQRESQSRTPRAGVSPKKAHPCEMCGLILEDVFHFADHQETHHKQKLN  
RSGACGKNLDDTAYLHQHQKHIGEKFYRKSVREASFVKKRKL RVSQEPFVFREFGKDVL  
PSSGLCQEEAAVEKTDSETMHGPPFQEGKTNYS CGKRTKAFSTKHSVIPHQKLFTRDGCY  
VCSDCGKSFSRYVSFSNHQRDHTAKGPYDCGECGKSYSRKSSLIHQHQRVHTGQTAYPCEE  
CGKSFSQKGSLSHQVLVHTGEGPYECRECGKSFGQKGNLIHQHQQHTGERAYHCGECGKS  
FRQKFCFINHQRVHTGERPYKCGECGKSFGQKGNLVHHQRGHTGERPYECKEKGKSFYR  
SHLTEHQRLHTGERPYNCRECGKLFNRKYHLLVHERVHTGERPYACEVCGKLFGNKHSVT  
IHQRIHTGERPYECSECGKSFLSSSALHVHKRVHSGQKPYKSECGKSFSECS SLIKHRR  
IHTGERPYECTKCGKTFQRSSTLLHHQSSHRRKAL

>sp|Q8IYB9|ZN595\_HUMAN Zinc finger protein 595 OS=Homo sapiens GN=ZNF595 PE=2 SV=1  
MELVTRDVAIEFSPPEWKCLDPAQQNL YRDVMLENYRNLVSLGFVISNPD LVTCLQIK  
EPCNLKIHETAAKPPAICSPFSQDLSPVQGIEDSFHKLILKRYEKGHENLQLRKGCKRV

NECKVQKGVNNGVYQCLSTTQSKIFQCNTCVKVFSSKFSNSNKHKIRHTGEKPFKCTECGR  
SFYMSHLTQHTGIHAGEKPYKCEKCGKAFNRSTSLSKHKRIHTGEKPYTCEEKGAFRRS  
TVLNEHKKIHTGEKPYKCEEKGAFTRSTTLNEHKKIHTGEKPYKCEKCGKAFRWSTSMN  
EHKNIHTGEKPYKCEKCGAFQRSRLNEHKNIHTGEKPYTCEKCGKAFNQSSSLIIHRS  
IHSEQKLYKCEEKGAFWSSSLNKHKRIHTGEKPYACEEKGAFYRSSHLAKHKRIHTG  
EKPYTCEEKGAFNQSSSLILHKRIHSGQKPYKCEEKGAFTRSTTLNEHKKIHTGEKPY  
KCEEKGAFIWSASLNEHKNIHTGEKPYKCEKCGKAFNQSSGLIIHRSIHSEQKLYKCEE  
CGKAFTRSTALNEHKKIHSGEKPYKCEKCGKAYNLSSLTTKHKRIHTGEKPFTCEEKGAF  
FNWSSSLTKHKIHTGEKSYKCEEKGAFNRPSLTIVHKRIHTGKEHS

>sp|Q9UEG4|ZNF629\_HUMAN Zinc finger protein 629 OS=Homo sapiens GN=ZNF629 PE=1 SV=2

MEPETALWGPDLQGPQSPNDAHRGAESSENEEESPRQESSGEEIIMGDPAQSPESKDSTE  
MSLERSSQDPSVPQNPTPLGHSNPLDHQIPLDPPAPEVVPTPSDWTACEASWQWGALT  
TWNPPVVPANEPSLRELVQGRPAGAEKPYICNECGKSFSQWSKLLRHQRIHTGERPNTC  
SECGKSFTQSSHLVQHQRTHTEKPYKCPDCGKCFSSWSSNLVQHQRTHTEKPYKCTECE  
KAFTQSTNLIKHQSHTGEKPYKCECRRAFYRSSDLIQHQATHTGEKPYKCECGKRFG  
QNHNLKHKIAGEKPYRTECGKSFIQSSELTQHQRTHTEKPYECLECGKSFGHSST  
LIKHQRTHLREDPFKCPVCGKTFTLSATLLRHQRTHTEKPYKCECGKSFSVSSNLINH  
QRIHRGERPYICADCGKSFISSSLIRHQRHTGEKPYKCSDCGKSFISSSLIQHRRTH  
TEKPYKCECGKSFSQSSNLITHVRTHMDENLFCSDCGKAFLEAHELEQHRVIERGK  
TPARRAQGDSLLGLGDPSSLTPPPGAKPHKCLVCGKGFNDEGIFMQHQRHIGENPYKNA  
DGLIAHAAPKPPQLRSPRLPFRGNSYPGAAEGRAEAPGQPLKPEGQEGFSQRRGLSSK  
TYICSHCGESFLDRSVLLQHQLTHGNEKPFLFPDYRIGLGEGAGPSPFLSGKPFKCPECK  
QSFGLSSELLHQQVHAGGKSSQKSPELGKSSSVLLEHLRSPLGARPYRCSDCRASFLDR  
VALTRHQETHTQEKPPNPEDPPPEAVTLSTDQEGEGETPTPTESSHGEQNPKTLVEEK  
PYLCPEGAGFTEVAALLHRSCHPGVSL

>sp|Q9UID6|ZNF639\_HUMAN Zinc finger protein 639 OS=Homo sapiens GN=ZNF639 PE=1 SV=1

MNEYPKKRKRKTLHPSRYSDSSGISRIADGFNGIFSDHCYSVCSMRQPDLYFDNKDDDS  
DTETSNDLPKFADGIKARNRNQYLVPSPVLRLDHTAFSTEKSADIVICDEECDSPESV  
NQQTQEESPIEVHTAEDVPIAEVHAISEDYDIETENSSSESLQDQDEEPPAKLCKILD  
KSQALNVTAAQKWPLLANSGLYKCELFNSKYFSDLKQHMLKHKRTDSNVCRCVCKE  
SFSTNMLLIEHAKLHEEDPYICKYCDYKTVIFENLSQHIADTHFSDHLYWCEQCDVQFSS  
SSELYLHFQEHSCDEQYLCQFCEHETNDPEDLHSHVVNEHACKLIELSDKYNNGEHGQYS  
LLSKITFDKCKNFFVCQVCGFRSLHTNVNRHVAIEHTKIFPHVCDDCGKGFSSMLEYCK  
HLNSHLSEGIYLCQYCEYSTGQIEDLKIHLDFKHSADLPHKCSDCLMRFGNERELISHL  
VHETT

>sp|Q5T619|ZNF648\_HUMAN Zinc finger protein 648 OS=Homo sapiens GN=ZNF648 PE=2 SV=1

MAQVDSQDRWGEASPLSSLTEEAHDTQMLSMNLESDDDEGGAEKEGTADPVACPRGSSP  
VTHENPDLWPWPHPLGKEEEKFSDSSSAGMGQKPVEMSGKASWSRDVTKINETQGSFGAS  
RALGSLPSGLAHKLLGQMQLGDRLPAGDDGYSGANQDAVLDPSPFPSNGKYLCAHKS  
DTSAGNSSLLCFPRPGSNWDLPTQETHTPAQASATPASLAAVLAARNRKRKVNQAGRR  
EGGEAEARPYRCLRGGRAFGKPSKPLSPAETRGGAARYACELCGKAYSHRGTLLQHRRL  
HTGERPYQCSFCDKAYTWSSDHRKHIRTHTGEKPYPCDCGKAFVRSSDLRKHQRNMHSN  
NKPFPCEGLTFNKPLSLRHQRTHLGAQPFRCACDREFAVASRMVEHQRVHSGERPF  
PCPTCGKCFTKSSNLSEHQLHTGQRPFKACDCGVAFAPQSRLVRHQRHTGERPFPCTQ

CGQAFARSSTLKRHQQIHSGEKGFLCAECGRAFRIASELAQHIRMHNGERPYPQCEDCGQA  
FTRSNHLQRHRAKHGTCKKEPIPSSSDE

>sp|Q96CK0|ZN653\_HUMAN Zinc finger protein 653 OS=Homo sapiens GN=ZNF653 PE=1 SV=1

MAERALEPEAEAEAEAGAGGEAAAEAGAAGRKARGRPRLTESDRARRRLESRKKYDVRRV  
YLGEAHGPWVDLRRRSGWSDAKLAAYLISLERGQSRHKGKPWEQVPKKPKRKKRRRRNV  
NCLKNVVIWYEDHKHRCYPYEPHLAELDPTFGLYTTAVWQCEAGHRYFQDLHSPLKPLSDS  
DPDSDKVGNGLVAGSSDSSSSGSASDSESPGQPVKAAAAAAATPTSPVGSSGLITQE  
GVHIPFDVHHVESLAEQGTPLCSNPAGNGPEALETVVCVPVPVQVGAGPSALFENVPQEA  
LGEVVASCPMPGMVPGSQV I I IAGPGYDALTAEGIHLNMAAGSGVPGSGLGEEVPCAMME  
GVAAYTQTEPGSQPSTMDATAVAGIETKKEKEDLCLLKKEEKEEPVAPELATTVPESAE  
PEAEADGEELDGSMSAI IYEIPKEPEKRRRSKRSRVMDADGLLEMFHCPYEGCSQVYVA  
LSSFQNHVNLVHRKGKTKVCPHPGCGKKFYLSNHLRRHMI IHSGVREFTCETCGKSFKRK  
NHLEVHRRTHTGETPLQCEICGYQCRQRASLNWHMKKHTAEVQYNFTCDRCGKRFEKLDS  
VKFHTLKSHPDHKPT

>sp|Q8N3J9|ZN664\_HUMAN Zinc finger protein 664 OS=Homo sapiens GN=ZNF664 PE=2 SV=1

MIYKCPMCREFFSERADLFMHQKIHTAEKPHKCDKCDKGFFHISELHIHWRDHTGEKVYK  
CDDCGKDFSTTTKLNHRKKIHTVEKPYKCYECGKAFNWSSHLQIHMRVHTGEKPYVCSEC  
GRGFSNSSNLCMHQRVHTGEKPFKCEECGKAFRHTSSLCMHQRVHTGEKPYKCYECGKAF  
SQSSSLCIHQRVHTGEKPYRCCGCGKAFSQSSSLCIHQRVHTGEKPFKCECGKAFSQST  
SLCIHQRVHTKERNHLKISVI

>sp|Q9BS34|ZN670\_HUMAN Zinc finger protein 670 OS=Homo sapiens GN=ZNF670 PE=1 SV=1

MDSVSFEDVAVAFQTQEEWALLDPSQKNLYRDVMQEIFRNLASVGKSEDQNIQDDFKNPG  
RNLSSHVVERLFEIKEGSQYGETFSQDSNLNLNKKVSTGVKPECSVCGKVFIHCHSALHR  
HILSHIGNKLFEECEEPEKLYHCKQCGKAFISLTSVDRHMTHTSNGPYKGPVYEKPFDF  
PSVFQMPQSTYTGEKTYKCHKDKAFNYSSYLREHERHTHTGEKPYACKKCGKSFTFSSSL  
RQHERSHTGEKPYECKECGKAFSRSTYLG IHERHTHTGEKPYECIKCGKAFCRSRLRVHE  
RTHSGEKPYECKQCGKAFKYSSNLCEHERHTHTGVKPYGCKEKGKSFTSSSALRSHERHT  
GEKPYECKKCGKAFCSSSLRKHERAYMW

>sp|Q8TD23|ZN675\_HUMAN Zinc finger protein 675 OS=Homo sapiens GN=ZNF675 PE=1 SV=3

MGLLTFRDVAIEFSLEEWCCLDTAQRNLYKNVILENYRNLVFLGIAVSKQDLITCLEQEK  
EPLTVKRHEMVNEPPVMCSHFAQEFWPEQNIKDSFEKVTLLRYEKCNDNFQLKGCKSVD  
ECKLHKGGYNGLNQCLPTMQSKMFQCDKYVKVFNFKFSHSDRHKIKHMENKPFKCECGRS  
FCMLSHLTRHERNYTKVNFCKCEECEKAVNQSSSLTKHKRIYTCEKLYKQECDRTFNQF  
SNLTEYKKDYAREKPYKCEECGKAFNQSSHLTTHKI IHTGEKPYKCEECGKAFNQFSNLT  
THKKIHTGEQPYICEECGAFTQSSTLTTHKRIHTGEKPYKCEECGKAFNRSSKLTEHKN  
IHTGEQPYKCEECGKAFNRSSNLTEHRKIHTTEKPYKCECGKAFKHSSALTTHKRIHTG  
EKPYKCEECGKAFNRSSKLTEHKKLHTGKKPYKCEECGKAFIQSSKLTEHKKIHSGEIPY  
KCEECGKAFAKHSSSLTTHKRIHTGEKPYKCEECGKAFSRSSKLTEHKI IHTGEKPYKCER  
CDKAFNQSANLTKHKKIHTGEKLQNNV

>sp|O95780|ZN682\_HUMAN Zinc finger protein 682 OS=Homo sapiens GN=ZNF682 PE=2 SV=1

MELLTFRDVTIEFSLEEWEFLNPAQQSLYRKVMLENYRNLVSLGLTVSKPELISRLEQRQ  
EPWNVKRHETIAKPPAMSSHYTEDLLPEQCMQDSFQKVILRRYGSCGLEDLHLRKDGENV  
GECKDQKEIYNGLNQCLSTLPSKIFPYNKCVKVFSSSNLNRENIRHTTEKLFKCMQCGK  
VFKSHSGLSYHKI IHTTEKLCICEECGKTFKWFSYLTKHKRIHTGEKPYKCEECGKAFNW

CSSLTKHKRIHTGEKPYKCEECGKAFHWCSPPFVRHKKIHTGEKPYTCEDCGRAFNRHSHL  
TKHKTIHTGKKPYKCECGKAFNHCSLLTIHERTHTGEKPYKCEECGKAFNSSSILTEHK  
VIHSGEKPYKCEKCDKVFKRFSYLTCHKRIHTGEKPYKCEECGKAFNWSSILTEHKRIHT  
GEKPYNCEECGKAFNRCSHLTRHKKIHTAVKRYKCEECGKAFKRCSHLNEHKRVQRGEKS  
CKYKKCGEAFNHCSNLTT

>sp|Q5TEC3|ZN697\_HUMAN Zinc finger protein 697 OS=Homo sapiens GN=ZNF697 PE=2 SV=2  
MKQEDNQGVCAHQDSEDKMGSDFESEDREGDPEEREMGSNPHDTNKREGHPEPEMGSN  
PQDSRHREAVPDICTEQLSEEEGVSVRGEEDDQSGVADAMAMPGLSESDSISRSLREDD  
DESAGENRLEEEEEQPAPPVLPWRRHLSLGSRRHGDKPAHRRFHRLLHHPMAVDLGELDSL  
VASIMDAPTICPDGCEFSFGAAFLQHQRHRLAEAAAAASLEPFGLAGECDAMVGMGMGV  
GVAGGFAGAPPLARPPREKPFRCGECGKGFSRNTYLTNHLRLHTGERPNLCADCGKSFSW  
RADLLKHRRLHTGEKPYPCPECGEAFSLSSHLLSHRRRAHAASGAGAAALRPFACGECGK  
GFVRRSHLANHQRIHTGEKPHGCGECGKRFSWRSDLVKHQRVHTGEKPYMCSECGETFSV  
SSHLFTHKRTHSGERPYPVCRECGKGFGRNSHLVNHLRVHTGEKPFRCGQCEKRFSDFSTL  
TQHQRTHTGEKPYTCIECGKSFIQSSHLIRHRIHTGNKPHKCAGCGKGFYKTHLAQH  
KLHLC

>sp|Q9HOM5|ZN700\_HUMAN Zinc finger protein 700 OS=Homo sapiens GN=ZNF700 PE=2 SV=1  
MPCCSHRSCREDPGTSESREMPVAFEDVAVNFTQEEWTLDDISQKNLFREVMLETFRNL  
TSIGKKWSDQNIYEYQNPRRSFRSLIEEKVNEIKEDSHCGETFTQVPDDRNLNFQEKKAS  
PEVKSCDSFVCAEVGIGNSSFNMSIRGDTGHKAYEYQEYGPYPYKQPKNKKAFYRPS  
IRTQERDHTGEKPYACKVCGKTFIFHSSIRRHVMHSGDGTCKFCGKAFHSFSLYLIIH  
ERTHTGEKPYECKQCGKSFTYSATLQIHERTHTGEKPYECSKCDKAFHSSSSYHRHERSH  
MGEKPYQCKEKGAFAYTSSLRHERTHSGKKPYECKQYGEGLSYLISFQTHIRMNSEGER  
PYKCKICGKGFYSAKSFQTHEKTHTGEKRYKCKQCGKAFNLSSSFYHERIHTGEKPYEC  
KQCGKAFRSASQLRVHGGTHTGEKPYECKEKGKAFRSTSHLRVHGRHTHTGEKPYECKECG  
KAFRYVKHLQIHERTEKHIRMPSEGERPYKCSICEKGFYSAKSFQTHEKTHTGEKPYECNQ  
CGKAFRCCNSLRYHERTHTGEKPYECKQCGKAFRSASHLRMHRTHTGEKPYECKQCGKA  
FSCASNLRKHGRHTHTGEKPYECKQCGKAFRSASNLQMHERTHTGEKPYECKEKEKAFCKF  
SSFQIHERKHRGEKPYECKHCGNGFTSAKILQIHARTHIGEKHYECKEKGAFNYFSSLH  
IHARTHMGEPYECKDCGKAFS

>sp|Q8N972|ZN709\_HUMAN Zinc finger protein 709 OS=Homo sapiens GN=ZNF709 PE=2 SV=1  
MDSVVFEDVAVNFTQEEWALLGPSQKKLYRDVMQETFVNLASIGENWEEKNIEDHKNQGR  
KLRSBMVERLCERKEGSQFGETISQTPNPKPNKKTFTRVKPYECSVCGKDYMCHSSLNRH  
MRSHTEHRSEYEHKYGEKSYECKEKGKRFSSFRSFRHERTHTGEKPYKCKQCGKAFSWP  
SSFQIHERTHTGEKPYECKEKGKAFIYHTTFRGHMRMHTGEKPYCKECKGTFSHPSFR  
NHERTHSGEKPYECKQCGKAFRYYQTFQIHERTHTGEKPYQCKQCGKALSCPTSFRSHER  
IHTGEKPYKCKKCGKAFFPSFRKHERIHTGEKPYDCKECKKAFISLPSYRRHMIMHTG  
NGPYKCKECKKAFDCPSSFQIHERTHTGEKPYECKQCGKAFCSSSSFRMHRTHTGEKPH  
ECKQCGKAFCSSSVRIHERTHTGEKPYECKQCGKAFCSSSSFRMHRIHTGEKPYECKQ  
CGKAFCSSSSFRMHRTHTGEKPYECKQCGKAFCSSSSFRMHRTHTGEKPYECKQCGKA  
FSCSSSIRIHERTHTGEKPYECKQCGKAFCSSSVRMHERTHTGVKPYECKQCDKAFCSCS  
RSFRIHERTHTGEKPYACQCGKAFKCSRSFRIHERVHSGE

>sp|A8MUV8|ZN727\_HUMAN Putative zinc finger protein 727 OS=Homo sapiens GN=ZNF727 PE=5  
SV=3

MRVLTFRDVAVEFSPEEWECLDSAQQRLYRDVMLENYGNLFSGLAIFKPDLITYLEQRK  
EPWNARRQKTVAKHPAGSLHFTAEILLEHDINDSFQKVILRKSGCDLNTLRLLKKDYQRV  
GNCKGQKSSYNGIHQCLSATRSKTCQYNKCGKAFGLCSIFTEHKKIFSREKCYKCEECGK  
DCRLSDFTIQKRIHTADRSYKCEECGKACKKFSNLTEHNRVHTGKKPYKCEECGKTFTCS  
SALTCHKRNHTGDRPYKCEECHKAFRCCSDLTCHKRIHTGEKPYKCKECHKAFRCCSDLT  
CHKRIHTGEKPYKCEECGKAFMWISALSQHNRIHTGEKPYICEECGKAFTYSSTLISHKR  
IHMELRPYKCEECGKTFKWFSDLTNHNKRIHTGEKPYKCEECGKSFTCSSNLIKHKRIHME  
VRPYKCEECGKTFKWFDPDTNHNKRIHTGEKPYKCEECGKTFTCSSLIKHKRSHTGDRPT  
SAKNVAKPLGGSQTLLNIR

>sp|Q6ZMV8|ZN730\_HUMAN Putative zinc finger protein 730 OS=Homo sapiens GN=ZNF730 PE=2  
SV=1

MGALTFRDVAIEFSLEEWCQLDTEQQNLRYNVMLDNYRNLVFLGIIVSKPDLTITCLEQEK  
EPWNLKTHDMVAKPPVICSHIAQDLWPEQGIKDYFQEVILRQYKKCRHENLLLRKGCKNV  
DEFKMHKKGYNRHNQCLTTSKIFQCDKYVKVFHKFSNSNRHKIRHTSKKPFKCKECCGK  
LFCILSHLAQHKKIHTGEKSYKCEEYGFKNFESSNCTTHKRITTEKPYKCKECCGKAFNWF  
SHFTTHKRIHTGEKPYKCEKCGKFFNQSTNLTHKRIHTGEKPYKCEECGKAFNQSSNL  
EHKKIHTKEQPYKCEKCGKAFKWSSTLTCHKRIHNGEKPYKCEECGKAFNRSSTLNRHKI  
THTGGKPYKYKECGKAFNQSSLTTHKRIHTVEKFYKCEECGKAFSRISHLTTHKRIHTG  
EKPYKCEECGRAFNQSSLTTHKRIHTGEKPYECEECCGKAFNRSSTLTTHKIIHSGEKIY  
KCKECCGKAFFRFSHLTRHKTIIHT

>sp|075373|ZN737\_HUMAN Zinc finger protein 737 OS=Homo sapiens GN=ZNF737 PE=2 SV=3

MGPLQFRDVAIEFSLEEWHCLDTAQRNLRYNVMLENYRNLVFLGIVSKPDLTITCLEQGK  
KPLTMKKHEMVANPSVTCSHFARDLWPEQSIKDSFQKVTLLRRYENYGHDLQFKKGCEV  
DECKVHKRGYNGLNQYLTTTQSKIFQCDKYVKVIHKFSNSNRHKIRHTGKKPFKCKIECCGK  
AFNQSSLTTHKKIHTGEKPFKCEECGKAFNWSSHLTTHKRIHTGEKRYKCEDCGKAFSR  
FSYLTAHKIIHSGEKPYKCEECGKAFKRSSNLTHKRIHTGEKPYKCEECGKAFKRSSIL  
TAHKIIHSGEKPYKCEECGKAFKHPSVLTHKRIHTGEKPYKCEECGRAFKYFSSLTTHK  
IIHSGEKPYKCEECGKAFNWSSHLTTHKRIHTGEKPYKCEECGEAFYSSSLTTHKRIHT  
GQQPFKCEECGKAFKCFSLTTHKRIHTGEKPYKCEECGKAFNSSSLTAHKRIHTGEK  
YKCEECGKAFKRSFILTRHKRIHTGEKPYKCEECGKGFKCPSTLTTHKVIHTGEKL

>sp|Q96BV0|ZN775\_HUMAN Zinc finger protein 775 OS=Homo sapiens GN=ZNF775 PE=2 SV=2

MESGLAGNGTGAGLMVKVQKQPERLLQTLAPQAMLVEKDKENIFQQHRGLPPRQTMGRP  
RALGGQEESGSPRWAPTEQDAGLAGRAPGSASGPLSPSLSSGEGHFVCLDCGKRFSWWS  
SLKIHQRHTGEKPYLCGKCGKSFQKPNLARHQRHHTGERPFCCPECARRFSQKQHLLK  
HQKTHSRPATHSCPECERCFRHHQVGLRIHQRAHARDRQGSRAGLHELIQDAAARRACRLQ  
PGPPRGRPEWAWLGLCQGWGQPGARAAVSGPEGPGEPQFICNECGKSFTWWSSLNIIHQ  
RIHTGERPYACPECGRRFSQKPNLTRHLRNHTGERPHPCPHCGRGRQKQHLLKHLRTHL  
PGAQAAPCPCGKSCRSRAALRAHQRAHAVAEPAPPAGEPDQPQAEAIPLAARPRSSQ  
RSPGARDTLWGRGQAGLAGPGEPRQFICNECGKSFSWWSALTIHQRIHTGERPYPCPECG  
RRFSQKPNLTRHRRNHTGERPYLCPACGRGFSQKQHLLKHQRVHRAAPACSPKEEAR

>sp|Q68DI1|ZN776\_HUMAN Zinc finger protein 776 OS=Homo sapiens GN=ZNF776 PE=1 SV=2

MAAAALRPAPQGTTFEDVAVNFSQEEWSLLSEAQRCLYHDVMLENLTLISSLGWCYGA  
KETPSKQTLISQESPLRTHWTGVCTKKVHLWGMCGPLLGDILHQTQHNLNGFGAYE  
KKLDDANHHQDQKQHIGESYRSNAKGTSFVNCKFHMSHEPFIHFEVKGDFLSSLRL

QQEDIHTSGKSNFETKHGIPLQGKTHYICGESTIPFSNKHSLVLHQRLLPREGPYVCSD  
SGKFTSKSNSFNHQQGVRTGKRPYQCGQCDSEFWYKAHLTEHQRVHTGERPYECGECDKS  
FSHKHSLVDHQRVHTGERPYECDECGKSFSHKRSLVHHQRVHTGERPYQCGECGKSFNHK  
CNLIQHQRVHTGERPFECTACGLFRSNSHLKEHQRVHTGERPYECKEKRKSFYKSHLT  
EHQRVHTGERPYECRECGKCFHQKGS LIHQQIHSGERPHECGECGKCFHQKGS LIRHQQ  
IHSGERPHECGECGKCFRQKGNLIKHRVHTGERHHEC

>sp|Q8N8C0|ZN781\_HUMAN Zinc finger protein 781 OS=Homo sapiens GN=ZNF781 PE=2 SV=1

MQRNAMYLNVAETACNFQLTQYQISHANQKPYECQICGKPFKRRAHLTQHNRIHTGGKP  
YECKEKGKVFICSTLIQHKRTHTEKPYECLECRKTFRRSAHLIRHQRHTGEKPYKCK  
QCWKAFASVSDLIDIGKFTLMRDFTNVQNVGRHLTIAQLLFSIREFTLVRSPNVRNVAK  
HSIIAQHLLNTRELILMRNLMNVRNVKRLLGKVHILLNIKEFILVRNHMSVSNVGRSLV  
FLILIDIREFTLVKNPMNVKNVVELLTIVQLLNTREFTLVRRLMNISSVGRFLSPVQHL  
FNIREHILMKNLMNVSNNARRPSSIMHILFDIKEFILVRNLINVSNGRPLLLFLI

>sp|Q5CZA5|ZN805\_HUMAN Zinc finger protein 805 OS=Homo sapiens GN=ZNF805 PE=2 SV=3

MAMALTDPAQVSVTFDDVAVTFTQEEWGQLDLAQRITLYQEVMLENCGLLVSLGCPVPRPE  
LIYHLEHGQEPWTRKEDLSQGTCPGDKGPKSTEPTTCELALSEGISFWGQLTQGASGDS  
QLGQPKDQDGFSEMQGERLRPGLDSQKEKLPKMSPKHDLGTADSVCSRIIQDRVSLGD  
DVHDCDSHSGKNPVIQEEENIFKCNECEKVFNKKRLARHERIHSGVKPYECTECGKTF  
SKSTYLLQHHMVHTGEKPYKMECGKAFNRKSHLTQHQRHSGEKPYKCECGKAFTHRS  
TFVLHNRSHTEKPFVCKEKGAFRDRPGFIRHYIIHSGENPYECFECGKVFKHRSYLMW  
HQQTHTEKPYECSECGKAFCEAALIHVYIHTGEKPFCECGKAFNHSYLRHQRH  
HTGEKPYVCECGKAFTHCSTFILHKRAHTGEKPFCECGKAFSNRADLIRHFSIHTGE  
KPYECMECGKAFNRSSGLTRHQRHSGEKPYECIECGKTCWSTNLIRHSIHTGEKPYE  
CSECGKAFSRSSSLTQHQRHMTGRNPISVTDVGRPFTSGQTSVNIQELLLGKNFLNVTE  
ENLLQEEASYMASDRTYQRETPQVSSL

>sp|A8K554|ZN815\_HUMAN Putative protein ZNF815 OS=Homo sapiens GN=ZNF815P PE=5 SV=1

MEEEEIRTWSFPPEVWQVATQPDSSQQHEDQHLSTFLDKKDWGTLNHECNELGKKLHQ  
NPNLLPSKQQVTRDLCRKSMLMCNLDFTPNAYLARRRFQCDGHGNFFSVRNKLHLQERI  
HAEVTSVEVL

>sp|O75541|ZN821\_HUMAN Zinc finger protein 821 OS=Homo sapiens GN=ZNF821 PE=1 SV=3

MSRRKQTPNPNKVHWDQVFAGLEEQRQAMMKTDFFPGDLGSQRQAIQQLRDQDSSSSDSEG  
DEEETTQDEVSSHTSEEDGGVVKVEKELENTEQPVGGNEVVEHEVTGNLNSDPLLELCQC  
PLCQLDCGSREQLIAHVYQHTAAVVSASYMCPVCGRALSSPGSLGRHLLIHSEDQRSNC  
AVCGARFTSHATFNSEKLPEVLNMESELPVHNEGSSAEGKDIAFSPPVYPAGILLVCNN  
CAAYRKLLAQTPSVRKWALRRQNEPLEVRLQRLERERTAKKSRRDNETPEEREVRRMRD  
REAKRLQRMQETDEQRARRLQRDREAMRLKRANETPEKRQARLIREREAKRLKRRLEKMD  
MMLRAQFGQDPSAMAALAAEMNFFQLPVSGVELDSQLLGKMAFEEQNSSSLH

>sp|Q17R98|ZN827\_HUMAN Zinc finger protein 827 OS=Homo sapiens GN=ZNF827 PE=1 SV=1

MPRRKQEAPKRLPSHVSQEEAEGLSEGEHWYGNSSETPSEASYGEVQENYKLSLEDRI  
QEQSTSPDTSLGSTTPSSHTLELVALDSEVLRDSLQCDHLSPGVSSLCDDPGSNKPLS  
SNLRRLLLEAGSLKLDAAATANGRVESPVNVGSNLSFSPPSHHAQQLSVLARKLAEKQEQN  
DQYTPSNRFIWNQGWLPNSTTCSLSPDSAILKLKAAANAVLQDKSLTRTEETMRFESF  
SSPFSSQSASSTLAALSKKVSERSLTPGQEHPPPASSFLSLASMTSSAALLKEVAARAAG  
SLLAEKSSLLPEDPLPPPPSEKKPEKVTPPPPPPPPPPPPPPPSLELLLLPVPKGRVSK

PSNSASEEESGKPFQCPICGLVIKRKSYWKRHMVIHTGLKSHQCPLCPFRCAKDNLKSH  
MKVHQHQDRGETFQCQLCPFTSSRHFSCLKHMRCHQHFLRTEAKVKEEIPDPDVKGSPHL  
SDSACLGGQREGGTELVTMMTSNTPERTSQGGAGVSPLLKEEPKEDNGLPTSFTLNA  
ADRPANHTKLKDPSEYVANSASALFSQDISVKMASDFLMKLSAANQKEPMNLNFKVKEEP  
KEGESLSTTLPRSSYVFSPSEVSAPGVSEDALKPQEGKGSVLRRDVSVKAASELLMKLS  
AESYKETQMVKIKEEPMEDVIQDSHVSISPSRNVGYSTLIGREKTEPLQKMPGVRVPPER  
NLFSQDISVKMASELLFQLSEKVSKEHNHTKENTIRTTTSPFFSEDTRQSPFTSNSKEL  
LPDSVLHGRISAPETEKIVLEAGNGLPSWKFNQDLPFCDVCGKVFGRRQTLNRHLSLHT  
EERKYKCHLCPYAAKCRANLNQHLTVHSVKLVSTDTEDIVSAVTSEGS DGKKHPYYYSCH  
VCGFETELNVQFVSHMSLVHDKEQWMFSICCTACDFVTMEEAEIKTHIGTKHTGEDRKTP  
SESNSPSSSSLSALSDSANSKDDSDGSQKNKGNNLLVISVMPGSQPSLNSEEKPEKGFE  
CVFCNFVCKTKNMFERHLQIHLITRMFECDVCHKFMKTPEQLLEHKKCHTVPTGGLNSGQ  
W

>sp|Q5JPB2|ZN831\_HUMAN Zinc finger protein 831 OS=Homo sapiens GN=ZNF831 PE=2 SV=4

MEVPEPTCPAPPARDQAPPTPGPPGAPGGQASPHLTGVPVLLPPEQGLAPPTVFLKALPI  
PLYHTVPPGGLQPRAPLVTGSLDGGNVFFILSPVLQPEGPGPTQVGKPAAPTTLTVNIVGT  
LPVLSPLGPTLGS PGKVRNAGKYLCPHCGRDCLKPSVLEKHRSHTGERPFP CATCGIA  
FKTQSNLYKHRRTQTHLNNSRLSSESEGAGGGLLEEGDKAGEPPRPEGRGESRCQGMHEG  
ASERPLSPGAHVPLLAKNLDVRTEAAPCPGSAFADREAPWDSAPMASPGLPAASTQPWRK  
LPEQSPTAGKPCALQRQQATAAEKPWDAKAPEGRRLKCESTD SGYLSRSDSAEQPHAPC  
SPLHSLSEHSAESEGE GPGPGVAGAEPGAEGAREAGLELEKKRLEERIAQLISHNQAVVD  
DAQLDNVRPRKTGLSKQGSIDLPTPYTYKDSFHFDIRALEPGRRRAPGPVRSTWTPPKS  
RPLFFHSVPTQLSTTVECVPTRSNSLPFVEGSRTWLEPREPRDPWSRTQKPLSPRPGPA  
RLGCRSGLSSTDVPSGHPRALVRQAAVEDLPGTPIGDALVPAEDTDAKRTAAREAMAGKG  
RAGGRKCGQRRLKMFQEKWQVYGETFKRIYQKMKASPHGGKKAREVGMGSGAELGFPL  
QKEAAGSSGTVPQTDRRTPVHEDISAGATPEPWGNPPALEASLVTEPTKHGETVARRGDS  
DRPRVEEAVSSPALGGRDSPCSGSRSPLVSPNGRLELQWMPAPGPLKGGDVEAPRPVW  
PDPKLEGGARGVDVQETCLWAQTVLRWPSRSGEDKLPSEKRLKVEDLHWSKQPEPVS  
AETPGGPTQPASLSSQKQDADPGEVPGGSKESARQVGEPLESSGASLAAASVALKRVGPR  
DKATPLHPAAPAPAEHPSLATPPQAPRVLSALADNAFSPKYLLRLPQAETPLPLIPWGP  
RHSQDSLCSGWPEERASFVSGSLGTPLSPSPASGSPGEADSILEDPSCSRPQDGRKGA  
QLGGDKGDRMATSRAARELPISAPGAPREATSSPPTPTCEAHLVQDMEGDSHRIHRLCM  
GSTLARARLSGDVLNPWVPNWELGEPPGNAPEDPSSGPLVGPDPCSPLQPGSFLTALTRP  
QGVPPGWPELALSSHSGTSRSHSTRSPHSTQNPFP SLKAEPRLTWCCLSRSVPLPAEQKA  
KAASVYLAVHFPGSSLRDEGPNPPGSNGGWTWTSPGEGGPAQMSKFSYPTVPGVMPQHQ  
VSEPEWKKGLPWRAKMSRGNSKQRKLKINPKRYKGNFLQSCVQLRASRLRTPTWVRRRSR  
HPPALEGLKPCRTPGQTSSEIAGLNLQEEPCATSESPCCGKEEKEGDCRQTLGTLSTL  
GTSSRIVREMDKRTVKDISPSAGEHGDCTTHSTAATSGLSLQSDTCLAVNDVPLPPGKG  
LDLGLLETQLLASQDSVSTDPKPYIFSDAQRPSFSGSKGTFPHHDIATSVAAVCISLPVR  
TDHIAQEIHSAESRDHSQTAGRTLSSSPDSKVTEEGRAQTLLPGRPSSGQRISDSVPLE  
STEKTHLEIPASGPSSASSHHKEGRHKTFPFSRGQYGCGETVPCPSLGS DGRKRQVSGL  
ITRKDSVVPSKPEQPIEIPAPSKSLKKRSLEGMRKQTRVEFSDTSSDDEDLVIEI

>sp|POCJ79|ZN888\_HUMAN Zinc finger protein 888 OS=Homo sapiens GN=ZNF888 PE=3 SV=1  
MALPQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDISSKCMMEFSSI



GKGNTTEVIHTGTLQRLASHHIGECCFQEIEKDIHDFVFQWQEDETNGHEAPMTEIKELTG  
STDQYDQRHAGNKPIKYQLGSSFHSHLPELHLARHYRRHTGEKPYKCNECGKTFSDKSAL  
LVHKT IHTGEKPYKCNECGKVFNQSNLARHHRVHTGEKPYQCKECDKVFSRKSYLEHRH  
RIHTGEKPYKCKVCDKAFRHDSHLAQHIVIHTREKPYKCNECGKTFGENSALLVHKT IHT  
GEKPYKCNECGKVFNQSNLARHHRHTGEKPYKCKECDKVFSRKSHERHRIHTGEKP  
YKCKVCDKAFRDRSLAYHHRHTGEKPYKCNECGKVFRQTSQLACHHRLHTGEKPYKCE  
ECDKVFNKSHLEIHRRVHTGEKPYKCRVCDKAFGKAFTSRSHLIRHQR IHTGQKSYKCH  
QCGKVFSRLRSLLAEQKIYF

>sp|A6NEH8|ZNAS2\_HUMAN Putative uncharacterized protein encoded by ZNF503-AS2 OS=Homo  
sapiens GN=ZNF503-AS2 PE=5 SV=1

MGVWGKKHLRLTHAPSPTFSLPPSPQAGEPGIDGSLAVVCAAFIRIHPARRHPARNGS  
RLACTPTPRPNAGLEVVSARVAASLPSEGGWTSGAPRSSGLSLPGSAWQPPPLPVLKRP  
AWPGSPAVKNESKFPNRRSRNFPRRRLPPAPVSGEPERCKLAREIRWRLWKAHEGWGGG  
AKRPLGDPAWSGVKR

>sp|P17014|ZNF12\_HUMAN Zinc finger protein 12 OS=Homo sapiens GN=ZNF12 PE=1 SV=3

MNKS LGPVSFKDVAVDFTQEEWQQLDPEQKIT YRDVMLENYSNLVSVGYHIIKPDVISKL  
EQGEPPWIVEGEFLLQSYPDVWQTDDLIERIQEENKPSRQTVFIETLIEERGNVPGKT  
FDVETNPVPSRKIAYKNSLCDSEKCLTSVSEYISSDGSYARMKADECSGCGKSLHLIKL  
EKTHPGDQAYEFNQNGEPYTLNEESLYQKIRILEKPFYIECQKAFQKDTVFNHMEKEP  
YKWNQSEIAFLQMSDLTVHQTSHMEMKPYECSECGKSFCCKSKFIHQRTHTGEKPYECN  
QCGKSFCQKGTLVHQRTHTEKPYECNECGKNFYQKLHLIQHQRTHSGEKPYECSYCGK  
SFCQKTHLTQHQRTHSGERPYPVCHDCGKTFSSQSALNDHQKIHTGVKLYKSECGKCFR  
KSTLTTHLRTHTEKPYECNECGKFFSRLSYLTVHYRTHSGEKPYECNECGKTFYLSAL  
MRHQRVHTGEKPYECNECGKLFSQLSYLTIHHRTHSGVKPYECSECGKTFYQNSALCRHR  
RIHKGEKPYECYICGKFFSQMSYLTIIHRIHSGEKPYECSECGKTFQNSALNRHQRTH  
GEKAYECYECGKCFSQMSYLTIIHRIHSGEKPFEKNECGKAFSRMSYLTVHYRTHSGEP  
YECTECGKKFYHKSFAFNHQRIHRRGNMNVIDVGRLL

>sp|P17026|ZNF22\_HUMAN Zinc finger protein 22 OS=Homo sapiens GN=ZNF22 PE=1 SV=3

MRLAKPKAGISRSSQKAYENKRKTGRQRQKQWGMTIRFDSSFSRLRRSLDDKPYKCTEC  
EKSFSQSSTLFQHQKIHTGKKSHKCADCGKSFFQSSNLIQHRR IHTGEKPYKCDECGESF  
KQSSNLIQHQR IHTGEKPYQCECGRCFSQSSHLIQHQRTHTEKPYQCECGKCFSS  
HLRQHMKVHKEEKPRKTRGKNIRVKTHLPSWKAGTGRKSVAGLR

>sp|P17035|ZNF28\_HUMAN Zinc finger protein 28 OS=Homo sapiens GN=ZNF28 PE=2 SV=5

MALPQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDISSKMMKTFFS  
TGQGNTEAFHTGTLQRQASHHIGDFCFQKIEKDIHGFQFQWQEDETNDHAAPMTEIKELT  
GSTGQHDQRHAGNKHIKDQLGLSFHSHLPELHIFQPEGKIGNQVEKSINNASSVSTSQRI  
CCRPKTHISNKYGNSLSHSLLTQKRNVMREKSFQCIESGKSFNCSSLLKKHQITHLEE  
KQCKCDVYGKVFNQKRYLACHRRSHIDEKPYKCNECGKIFGHNTSLFLHKALHTADKPYE  
CEECDKVFSRKSHEITHKIYTGKPYKCKVCDKAFTCN SYLAKHTIIHTGEKPYKCNEC  
GKVFNRLSTLARHRRHTGEKPYECECEKVFSRKSHERHKRIHTGEKPYKCKVCDKAF  
AYNSYLAKHSI IHTGEKPYKCNECGKVFNQSTLARHHRHTAEKPYKCEECDKVFRCKS  
HLERHRR IHTGEKPYKCKVCDKAFRSDSCLTEHQRVHTGEKPYMCNECGKVFSSTKANLAC  
HHKLHTAEKPYKCEECEKVFSRKSHERHRR IHTGEKPYKCKVCDKAFRRDSHLAQHQRV  
HTGEKPYKCNECGKTFRQTSSLIHRRHTGEKPYKCNECGKTFSSQMSLVYHHRHLSGE

KPYKCNECGKVFNQQAHLAQHQRVHTGEKPYKCNECGKTFSQMSNLVYHRLHSGEKP

>sp|P51814|ZNF41\_HUMAN Zinc finger protein 41 OS=Homo sapiens GN=ZNF41 PE=1 SV=2

MAANGDSPWSPALAAEGRSSCEVRRERTPEARIHVSVKRYPDLSPGPKGRSSADHAALN  
SIVSLQASVSFEDVTVDFSKEEWQHLDPARRLYWDVTLENYSHLLSVGYQIPKSEAAFK  
LEQGECPWMLEGEAPHQSCSGEAI GKMQQGIPGGIFFHCERFDQPIGEDSLCSILEELW  
QDNDQLEQRQENQNNLLSHVKVLIKERGYEHKNIEKIIHVTTKLVPSTKRLHNCDTILKH  
TLNSHNHNRNSATKNLGKIFGNGNFPHPSPSTKNENAKTGANSCEHDHYEKHLSHKQAP  
THHQKIHPPEKLYVCTECVMGFTQKSHLFEHQRIHAGEKSRECDKSNKVFPQKPQVDVHP  
SVYTGEKPYLCTQCCKVFTLTKSNLITHQKIHTGQKPYKCSECGKAFFQRSDLFRHLRIHT  
GEKPYECSECGKGFSSQSDLSIHQKTHTEKHYECNECGKAFTRKSA LRMHQRIHTGEKP  
YVCADCGKAFIQKSHFNTHQRIHTGEKPYECSDCGKSFTKKSQ LHVHQRIHTGEKPYICT  
ECGVFTHRTNLTHQKTHTEKPYMCAECGKAFTDQSNLIKHQKTHTEKPYKCNGCGK  
AFIWKSR LKIHQKSHIGERHYECKDCGKAFIQKSTLSVHQRIHTGEKPYVCPECGKAFIQ  
KSHFIAHHRIHTGEKPYECSDCGKCTTKKSQ LRVHQKIHTGEKPNICAECGKAFTDRSNL  
ITHQKIHTREKPYECGDCGKFTWKSRLNIHQKSHTGERHYECSKCGKAFIQKATLSMHQ  
IIHTGKKPYACTECQKAFTDRSNLIKHKMHSGEKRYKASD

>sp|Q6ZN08|ZNF66\_HUMAN Putative zinc finger protein 66 OS=Homo sapiens GN=ZNF66 PE=5 SV=3

MGPLQFRDVAIEFSLEEWCHLDMARNL YRDVMLENYRNLVFLGIVVSKPDLITHLEQ GK  
KPSTMQRHEMVANPSVLCSHFNDLWPEQSIKDSFQKLILRRHKKCGHDNLQLKKGCESV  
DKCKVHKRGYNGLNQCLTTTQSKMFQCDKHGKVFHQFSNTNRHKIRHTGKNPCKFTECGK  
AFNRSSFTTHKKIHTGEKPYKCIECGKAFNRSSHLTHKKIHTGEKRYKCEDCGKAFNR  
SSNLTHKKIHTGEKPYKCEECGKAFKRSSILTHKKRIHTGEKPYKCEECGKVFKYLSSL  
STHKIHTGEKPYKCEECGKAFNWSSHLTHKKRIHTGEKPYKCEECGKGFKYSSTLT KHK  
IIHTGEKPYKCEECGEAFKYSCSLTAHKIIHTGKKPYKCEECGKVFKHSSPLSKHKRIHT  
GEKPYKCEECGKAFFSRSSILTHKKIHTGEKPYECEDCGKAFNRSSNLTKHKKIHTGEKP  
YKCEECGKAFFKCSSILTHKKRIHTADKPYKCEECGKDFKYSSTLTRHKKIHTGGKPHKCN  
KCGKAFISSNLSRHEIIHMGGNPYKCENVAKP

>sp|Q15937|ZNF79\_HUMAN Zinc finger protein 79 OS=Homo sapiens GN=ZNF79 PE=1 SV=2

MLEEGVLPSPGPALPQEENTGEEGMAAGLLTAGPRGSTFFSSVTVAFAQERWRCLVSTPR  
DRFKEGIPGKSRSLVLLGLPVSQPGMNSQLEQREGAWMLEGEDLRSPSPGWKIIISGSPPE  
QALSEASFQDPCVEMPPGSDHGTSDLEKSFNLRPVLSPQQRVPVEARPRKCETHTESFK  
NSEILKPHRAKPYACNECGKAFSYCSSLSQHQSHTGEKPYECSECGKAFFSQSSSLIQHQ  
RIHTGEKPYKCSECGRAFSQANLTKHQRTHTGEKPYRCSECEKAFSDCSALVQHQRHT  
GEKPYECSDCGKAFFRHSANLTNHQRTHTGEKPYKCSECGKAFFSYCAAFIQHQRIHTGEKP  
YRCAACGKAFFSQSANLTNHQRTHTGEKPYKCSECGKAFFSQSTNLIHQKTHTEKPYKCN  
ECGKFFSESSALIRHHIIHTGEKPYECNECGKAFNQSSSLSQHQRIHTGVKPYECSECGK  
AFRCSSAFVRHQRLHAGE

>sp|Q03938|ZNF90\_HUMAN Zinc finger protein 90 OS=Homo sapiens GN=ZNF90 PE=2 SV=3

MGPLEFRDVAIEFSLEEWCHLDTAQQLYRDVMLENYRHLVFLGIVVTKPDLITCLEQ GK  
KPFTVKRHEMIAKSPVMCFHFAQDLCPESLKD SFQKVI VTRYEKREYGNLELKGCESV  
DEGVHKRGYNGLNQCLTATQSKVFQCDTYKVSHIFSNSNRHKIRD TGKPPFKCIECGK  
AFNQSSLTATHKKIHTGEITCKCEECGKAFNRSSHLTSHKKRIHTGEKRYKCEDCGKELKY  
SSTLTAKHRIHTGEKRYKCEDCGKELKYSSTLTAKHRIHTGEKPYKCDKCGRAFISSIL  
YVHKISHTEEKPYKCEECGKAFFLSSILSTHKRIHTGEKPYKCEECGKAFFRSLVLRTHK

RIHTGEKPYKCDKCGKAFISSLLYKHKISHSEKKPYKCEECGKAFKRSSLTIIHKISHT  
EEKPYKCQECDKVFKRSSALSTHKIIHSGEKPYKCEECGKAFKRSSNLTHKISHTEEKL  
YKCQECDKAFKYSSALSTHKIIHSGENPYKCEECGKAFKRSSVLSKHKIIHTGAKPYKCE  
ECGKAFKRSSQLTSHKISHTGEKPYKCEECGKAFNLSSDLNTHKRIHIGQKAYIVKNMAN  
L

>sp|Q05481|ZNF91\_HUMAN Zinc finger protein 91 OS=Homo sapiens GN=ZNF91 PE=2 SV=2  
MPGTPGSLEMGLLTFRDVAIEFSPIEWQCLDTAQQLYRNVMLENYRNLAFLGIALSKPD  
LITYLEQGKEPWNMKQHEMVDEPTGICPHFPQDFWPEQSMEDSFQKVLLRKYEKCGHENL  
QLRKGCKSVDECKVHKEGYKNLNQCLTTAQSKVFQCGKYLKVYFKFLNSNRHTIRHTGKK  
CFKCKKCVKSFCIRLHKTQHKCVYITEKSCKCKECEKTFHWSSTLTNHKEIHTEDKPYKC  
EECGKAFKQLSTLTTHKII CAEKIYKCEECGKAFLWSSTLTRHKRIHTGEKPYKCEECG  
KAFSHSSTLAKHKRIHTGEKPYKCEECGKAFSRSTLAKHKRIHTGEKPYKCKEKGKAFS  
NSSTLANHKIHTTEKPYKCKECDKAFKRLSTLTCHKIIHAGEKLYKCEECGKAFNRSSN  
LTIHKFIHTGEKPYKCEECGAFNWSSSLTKHKRFHTREKPFKCKEKGKAFIWSSTLTRH  
KRIHTGEKPYKCEECGAFRQSSLTCHKIIHTGEKPYKFEECGAFRQSLTLNKHKIIH  
SREKPYKCKEKGKAFKQFSTLTTHKIIHAGKKLYKCEECGKAFNHSSSLSTHKIIHTGEK  
SYKCEECGKAFLWSSTLRRHKRIHTGEKPYKCEECGAFSHSSALAKHKRIHTGEKPYKC  
KECGKAFSNSTLANHKIHTTEKPYKCKECDKTFKRLSTLTCHKIIHAGEKLYKCEECG  
KAFNRSSNLTIHKFIHTGEKPYKCEECGAFNWSSSLTKHKRIHTREKPFKCKEKGKAFI  
WSSTLTRHKRIHTGEKPYKCEECGKAFSRSTLTCHKIHTGEKPYKCKEKGKAFKHSSA  
LAKHKIIHAGEKLYKCEECGAFNQSSNLTHKIIHTKEKPSKEECDKAFIWSSTLTEH  
KRIHTREKTYKCEECGKAFSQPSHLTTHKRMHTGEKPYKCEECGKAFSQSSLTTHKIIH  
TGEKPYKCEECGAFKRSSLTTEHKIIHTGEKPYKCEECGKAFSQSSLTRHTRMHTGEK  
PYKCEECGKAFNRSSKLTTHKIIHTGEKPYKCEECGAFISSSTLNGHKRIHTREKPYKC  
EECGKAFSQSSLTRHKRLHTGEKPYKCGEKGKAFKESSALTKHKIIHTGEKPYKCEKCG  
KAFNQSSILTNNKKIHTITPVIPLLWEAEAGGSRGQEMETILANTVKPLLY

>sp|Q6XR72|ZNT10\_HUMAN Zinc transporter 10 OS=Homo sapiens GN=SLC30A10 PE=1 SV=2  
MGRYSGKTCRLLFMLVLTVAFFVAELVSGYLGNISALLSDSFNMLSDLSLCVGLSAGYI  
ARRPTRGFSATYGYARAEEVVGALSNAVFLTALCFTIFVEAVLRLARPERIDDPVLVIG  
VLGLLVNVVGLLIFQDCAAWFACCLRGSRRLQQRQQLAEGCVPGAFFGGPQGAEDPRRAA  
DPTAPGSDSAVTLRGTSVERKREKATVFANVAGDSFNTQNEPEDMMKKEKKSEALNIRG  
VLLHVMGDALGSVVVITAIIFVYVPLKSEDPCNWQCYIDPSLTVLMVIIILSSAFPLIK  
ETAAILLQMVPKGVNMEELMSKLSAVPGISSVHEVHIWELVSGKIIATLHIKYPKDRGYQ  
DASTKIREIFHHAGIHNVTIQFENVDLKEPLEQKDLLLLCNSPCISKGCAKQLCCPPGAL  
PLAHVNGCAEHNGGPSLDTYSGDGLSRRDAREVAIEVSLDCLSDHGQSLNKTQEDQCYV  
NRTHF

>sp|Q07157|ZO1\_HUMAN Tight junction protein ZO-1 OS=Homo sapiens GN=TJP1 PE=1 SV=3  
MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVL  
KGGPAEQQLQENDRVAMVNGVSMNDVEHAFVQQLRKSGKNAKITIRKKKVQIPVSRPD  
PEPVDNEEDSYDEEIHDPGRSGVNVNRSEKIWPRDRSASRERSLSPSRDRRSVASSQ  
PAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAARDGNIQEGDVVLKINGTVTENM  
SLTDAKTLIERSKGKLMVVRDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHS  
GRSHDRPPRRSRSPDQRSEPSDHSRHSPQQPSNGSLRSRDEERISKPGAVSTPVKHAD  
DHPTKTVEEVTVRNEKQTPSLPEPKPVYAQVGQPDVDLPVSPSDGVLPNSTHEDGILRP

SMKLVKFRKGDSVGLRLAGGNDVGIFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNII R  
EEAVLFLLDLPKGEEVTILAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKG  
EVFRVVDTLYNGKLGSWLAIRIGNHKEVERGIIPKNRAEQLASVQYTLPKTAGGDRAD  
FWRFRGLRSSKRNLRKSREDLSAQPVQTKFPAYERVVLEAGFLRPVTIFGPIADVAREK  
LAREEPDIYQIAKSEPRDAGTDQRSSGIIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQ  
WYPIVVFLNPDSKQGVKTMRMRLCPESRKSARKLYERSHKLKNNHHLFTTTINLNSMND  
GWYGALKEAIQQQQNLVWVSEGKADGATSDDLHLDDRLSYLSAPGSEYSMYSTDSRHT  
SDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHEQTYPPYSP  
QAQPQPIHRIDSPGFKPASQQKAEASSPVYLSPETNPASSTSAVNHNVNLTNRLEEPT  
PAPSTSYPQADSLRTPSTEAHIMLRDQEPSSLSHVDPTKVYRKDPYPEEMMRQNHVLK  
QPAVSHPHRPDKEPNLTYPQLPYVEKQASRDLEQPTYRYESSYTDQFSRNYEHRLRY  
EDRPMYEEQWSYDDKQPYPSRPPFDNQHSQDLDSRQHPEESSERGYFPRFEAPLSY  
DSRPRYEQAPRASALRHEEQAPAGYDTHGRLRPEAQPHPSAGPKPAESKQYFEQYSRSYE  
QVPPQGFTSRAGHFELHGA AVPLIPSSQHKPEALPSNTKPLPPPPTQTEEEEDPAMK  
PQSVLTRVKMFENKRSASLETKKDVNDTGSFKPPEVASKPSGAPIIGPKPTSQNFSEHD  
KTLYRIPEPQKPQLKPPEDIVRSNHYPDEEDEYYRKQLSYFDRRSFENKPPAHIAASHL  
SEPAKPAHSQNQSNFSSYSKGPPEADGVDRSFGEKRYEPIQATPPPPPLPSQYAQPSQ  
PVTSASLHIHSGGAHGEGNSVSLDFQNSLVSKPDPPPSQNKPATFRPPNREDTAQAAYFP  
QKSFPDKAPVNGTEQTQKTVTPAYNRFTPKPYTSSARPFERKFESPKFNHNLPSETAHK  
PDLSSKTPTSPKTLVKSHSLAQPPPEFDSGVETFSIHA EKPKYQINNISTVPKAIPVSPSA  
VEEDEDEDGHTTVATARGIFNSNGGLSSIETGVSIIPQGAIPGEVQEYIFKVCRDNS  
ILPPLDKEKGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANC  
VSVLIDHF

>sp|043264|ZW10\_HUMAN Centromere/kinetochore protein zw10 homolog OS=Homo sapiens GN=ZW10  
PE=1 SV=3

MASFVTEVLAHSGRLEKEDLGTRISRLTRRVEEIKGEVCNMISKKYSEFLPSMQSAQGLI  
TQVDKLSIEDIDLLKSRIESEVRRDLHVSTGEFTDLKQQLERDSVVL SLLKQLQEFSTAIE  
EYNCALTEKKYVTGAQRLEEAQKCLKLLKSRCFDLKILKSLSMELTIQKQNILYHLGEE  
WQKLIVWKFPKSDTSSLESYLQTELHLYTEQSHKEEKTMPPISSVLLAFSVLGELHSK  
LKSFGQMLLKYILRPLASCPSLHAVIESQPNIVIRFESIMTNLEYSPSEVFTKIRLVL  
EVLQKQLLDLPLDLDLENEKTSTVPLAEMLGDMIWEDLSECLIKNCLVYSIPTNSSKLQQ  
YEEIIQSTEEFENALKEMRFLKGDTTDLKYARNINSHFANKKCQDVIVAARNLMTSEIH  
NTVKIIPDSKINPELPTPDEDNKLEVQKVSNTQYHEVMNLEPENTLDQHSFSLPTCRIS  
ESVKKLMELAYQTLLEATTSSDQCAVQLFYSVRNIFHLFHDVVPPTYHKENLQKLPQLAAI  
HHNNCMYIAHLLTLGHQFRLRLAPILCDGTATFVDLVPGRRLGTECFLAQMRAQKGEL  
LERLSSARNFSNMDEENYSAASKAVRQVLHQLKRLGIVWQDVLVNIYCKAMGTLLNTA  
ISEVIGKITALEDISTEDGDRLYSLCKTVMDEGPQVFAPLSEESKNKKYQEEVPVYVPKW  
MPFKELMMMLQASLQEIGDRWADGKGPLAAAFSSSEVKALIRALFQNTERRAAALAKIK

>sp|Q9H900|ZWILCH\_HUMAN Protein zwilch homolog OS=Homo sapiens GN=ZWILCH PE=1 SV=2

MWERLNCAAEFYRLLQKFNEEKKGIRKDPFLYEADVQVQLISKGQPNPLKNILNENDI  
VFIVEKVPLEKEETSHIEELQSEETAISDFSTGENVGPLALPVGKARQLIGLYTMAHNPN  
MTHLKNLPVTALPPLWVRCDSSDPEGTCWLGAELITTNSITGIVLYVVSCKADKNYSV  
NLENLKNLHKKRHHLSVTVSKGFAQYELFKSSALDDTITASQTAIALDISWSPVDEILQI  
PPLSSTATLNKIVESGEPRGPLNHL YRELKFLLVLADGLRTGVTEWLEPLEAKSAVELVQ

EFLNDLNKLDGFGDSTKKDTEVETLKHDTA AVDRSVKRLFVRSDDLFAEQLWCKMSSSV  
ISYQDLVKCFTLIIQSLQRGDIQPWLHSGSNSLLSKLIHQSYHGTMDTVSLSGTIPVQML  
LEIGLDKLLKKDYISFFIGQELASLNHLEYFIAPSVDIQEQVYRVQKLHHILEILVSCMPF  
IKSQHELLFSLTQICIKYKQNPQLDEQHIFQLPVRPTAVKNLYQSEKPQKWRVEIYSGQK  
KIKTVWQLSDSSPIDHLNFHKPDFSELTLNGSLEERIFFTNMVTCSQVHFK

>sp|Q9COD3|ZY11B\_HUMAN Protein zyg-11 homolog B OS=Homo sapiens GN=ZYG11B PE=1 SV=2

MPEDQAGAAMEEASPYSLLDICLNFLTTHLEKFCSARQDGTLCLEPGVFPQEVADRLLR  
TMAFHGLLNDGTVGIFRGNQMRKACIRKAKISAVAFRKAFCCHKLVELDATGVNADIT  
ITDIISGLGSNKWIQQNLQCLVLNSLTLSLEDPYERCF SRLSGLRALSITNVLFYNEDLA  
EVASLPRLESLDISNTSITDITALLACKDRLKSLTMHHLKCLKMTTQILDVVRELKHLN  
HLDISDDKQFTSDIALRLLEQKDILPNLVSLDVSGRKHVTDKAVEAFIQQRPSMQFVGLL  
ATDAGYSEFLTGEHGLKVSGEANETQIAEALKRYSERAFFVREALFHLFSLTHVMEKTKP  
EILKL VVTGMRNHPMNL PVQLAASACVFNLTKQDLAAGMPVRLADVTHLLLKAMEHFPN  
HQQQLQKNCLLSLCSDRILQDVPFNRFEAAKLVMQWLCNHEDQNMQRMAVAIISILAAKLS  
TEQTAQLGTSELFIVRQLLQIVKQKTNQNSVDTTLKFTLSALWNLDESPTTCRHF IENQG  
LELFMRVLESFPTESSIQQKVLGLLNNIAEVQELHSELMWKDFIDHISLLHSVEVEVSY  
FAAGIIAHLISRGEQAWTLSRSQRNSLLDDLHSAILKWPTPECEMVAYRSFNPFPLLC  
FTTPGVQLWAVWAMQHVCSKNPSRYCSMLIEEGLQHLNYIKDHEHTDPHVQQIAVAILD  
SLEKHIVRHGRPPPCKKQPQARLN

>sp|Q8N9W7|Y0010\_HUMAN Putative transmembrane protein FLJ36131 OS=Homo sapiens PE=5 SV=1

MYVVISFLLGLSHLVLCCLLTIVNFYLPPEIDFEFMAHNWSKGRSPSSTLGLSWFKAG  
FRFSDGWSMFYSFGLPGVALPGSPPRSHLLPGTQILIRSFQPCESAKHSARLSSLLTTTS  
YSVS

>sp|Q6ZQY7|Y0026\_HUMAN Putative uncharacterized protein FLJ46792 OS=Homo sapiens PE=2  
SV=1

MISFHVIFLSLGRGKFLFPVNF CFLKLKNSQVRIPKDFTCNLHVLFRTVQGEDRNTMFRG  
HWSIYSRNFPLAVVPAYVTEDGKNTSHRASGQFCNALSQGEIPSSLQLVNSYALEPRTDM  
PCNFLT

>sp|Q6ZR7|Y0029\_HUMAN Putative uncharacterized protein FLJ46214 OS=Homo sapiens PE=2  
SV=1

MSPTKDSHPSPHFPRDSGIHAPTPDSGALTLSPVVSQGPVGPRTRGRGNRLCRPPGRSA  
ARSFCLLPGPPLGTGALGSPRAAQGLGFRGSGQARHNSFTSPSPPGAHHPLGTHTRALP  
PPLARCPCAALLAGRECHGGPSAAPRPLPGTSLTWPSRAPLPRPPPRERQGPGRSPSP  
SAPSCPGVGASSPRRRKPREAAGLTPDG

>sp|Q6ZRU5|YQ032\_HUMAN Putative uncharacterized protein FLJ46089 OS=Homo sapiens PE=5  
SV=2

MRCVTRTRNWWRAARMPRAGSSAWWVAVCKQVCTRVGTAYVCWC SWNTGRFTGCPSWKD  
FWKPVGPALHVFNVKCEAQRGLKLTQPFTVACKIDPVLCKSGLGFPPLFTGCVYLSTYT  
YPWQAQAEVRCPRDSNRCKRITPSACL

>sp|A8MXK9|YQ018\_HUMAN Uncharacterized protein ENSP00000382033 OS=Homo sapiens PE=2 SV=2

MLCPCIQESTFETCLFMAVSRMSKWRLSRVGGSRSLPAEMEVLGEVWCVRAEEQPM TGLG  
IVWHSPLDKALETWSLQQQPDFSLGLGLGLGTDATWMQSFPGSGGDAQAGTGVSGPLRL  
YPNLLCDFGPRQGPLWALLLEKRMAGTGGSPALLAWRSASWRALG

>sp|Q86U90|YRDC\_HUMAN YrdC domain-containing protein, mitochondrial OS=Homo sapiens  
GN=YRDC PE=1 SV=1

MSPARRCRGMRAAVAASVGLSEGPAGSRSGRLFRPPSPAPAAPGARLLRLPGSGAVQAAS  
PERAGWTEALRAAVAELRAGAVVAVPTDTLYGLACAASCSAALRAVYRLKGRSEAKPLAV  
CLGRVADVYRYCRVRVPEGLLDLLPGPVTLMERSEELNKDLNPFTPLVGIRIPDHAFM  
QDLAQMFEGPLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIGDQGSPECRLGSTV  
VDLSVPGKFGIIRPGCALESTTAILQQKYGLLPASHYL

>sp|Q9UI54|YT001\_HUMAN Putative uncharacterized protein PRO0628 OS=Homo sapiens  
GN=PRO0628 PE=5 SV=1

MESPKCLYSRITVNTAFGTFKFSHISFIILFKVFLFPRITISKTKLVTLSNYLNK

>sp|A8MT66|YU005\_HUMAN Putative uncharacterized protein ENSP00000383407 OS=Homo sapiens  
PE=5 SV=1

MNLCISLEGSMDSLYEPIPEQQANQENMSSRTDSPIPFGESEQTPNNLFVGVSNLENA  
KPKKRKLFRRFMSSENKIFEGKTVNDKIWQEHSHKHNDSHIRRPCQLKDLNENDFLSNNIH  
TYQGKTLQGTSTYQVTSECWSPFHYQRHVETTVDELVRHFFPDVTI

>sp|Q96IR3|YV007\_HUMAN Putative uncharacterized protein MGC15705 OS=Homo sapiens PE=5  
SV=1

MTRNVVRQEFEAPGKPDSSQQDACLILVKGNWTTNEMEVK

>sp|Q5BKY6|YV018\_HUMAN Putative uncharacterized protein DKFZp434K191 OS=Homo sapiens PE=1  
SV=1

MKKRHREGCDMPGPWSTLRSHRGHCHPLHPVLRRTLT DVEGCLQCLDVCGHPRHAVDA  
HLLHASALDLLHALAHDVGHLGPLSPAGGGNVLSVLTALLGP

>sp|Q96PM9|Z385A\_HUMAN Zinc finger protein 385A OS=Homo sapiens GN=ZNF385A PE=1 SV=2

MILGSLSRAGPLPLLRQPPIMQPPLDLKQILPFPLEPAPTGLFSNYSTMDPVQKAVLSH  
TFGGPLLKTKRPVISCNICQIRFNSQSQAIAHYKGNRHARRVKGIEAAKTRGREPGVREP  
GDPAPPGSTPTNGDVAPRPVSMENGLGPAPGSPEKQPGSPSPSIPETGQGVTKGEGGT  
PAPASLPGGSKEEEEKAKRLLYCALCKVAVNSLSQLEAHNKGTKHKTILEARSGLPIKA  
YPRLGPTPGEPEAPAQDRTFHCEICNVKNSEVQLKQHISSRRHRDGVAGKPNPLLSRH  
KKSARGAGELAGTLTFSKELPKSLAGGLPSPLAFAVMAAAAGSPLSLRPAPAAPLLQGP  
PITHPLLHPAPGPIRTAHGPILFSPY

>sp|Q9UGR2|Z3H7B\_HUMAN Zinc finger CCH domain-containing protein 7B OS=Homo sapiens  
GN=ZC3H7B PE=1 SV=1

MERQKRKADIEKGLQFIQSTLPLKQEEYEAFLKLQNLFAEGNDLFREKDYKQALVQYM  
EGLNVADYAASDQVALPRELLCKLHVNRACCYFTMGLYEKALEDSEKALGLDSEIRALF  
RKARALNELGRHKEAYECSSRCSLALPHDESVTQLGQELAQKLGLRVKAYKRPQELETF  
SLLSNGTAAGVADQGTSNGLGSIIDDIETGNVPDTREQVEIGAPRDCYVDPRGSPALLPST  
PTMPLFPFVLDLLAPLDSRTLPSTDSLDDFSDGDVFGPELDTLLDSLVLVQGGLSGSGV  
PSELPLQIPVFPGGTPLLPPVVGGSIPVSSPLPPASFGLVMDPSKKLAASVLDALDPPGP  
TLDPLDLLPYSETRLDALDSFGSTRGSLDKPDSFMEETNSQDHRPPSGAQKPAPSPEPCM  
PNTALLIKNPLAATHEFKACQLCYPKTGPRAGDYTYREGLEHKCKRDILLGRLRSSDQ  
TWKRIRPRPTKTSFVGSYYLCKDMINKQDCKYGDNCTFAYHQEEIDVWTEERKGTLNRL  
LFDPLGGVKRGSLLIAKLLKEHQGIFTFLCEICFDSKPRIISKGTKDSPSVCSNLAAKHS  
FYNNKCLVHIVRSTSLKYSKIRQFQEHFQFDVCRHEVRYGCLREDSCHFAHSFIELKVWL  
LQQYSGMTHEDIVQESKKYQQMEAHAGKASSSMGAPRTHGPSTFDLQMKFVCGQCWRNG

QVVEPDKDLKYCSAKARHCWTKERRVLLVMSKAKRKWVSVRPLPSIRNFPQQYDLCIHAQ  
NGRKCQYVGNCFAHSPEERDMWTFMKENKILDMQQTIDMWLKKHNP GKPGEGTPISSRE  
GEKQIQMPTDYADIMMGYHCWLCGKNSNSKKQWQQHIQSEKHKEKVFTSDSDASGWAFRF  
PMGEFRLCDRLQKGKACPDGDKCRCAHGQEELNEWLDRREVLKQKLAKARKDMLLCPRDD  
DFGKYNFLLQEDGDLGATPEAPAAAAATATTGE

>sp|Q6P3V2|Z585A\_HUMAN Zinc finger protein 585A OS=Homo sapiens GN=ZNF585A PE=2 SV=2  
MPANWTSPQKSSALAPEDHGSSYEGSVSFRDVAIDFSREEWRHLDPQRNLYRDVMLETY  
SHLLSVGYQVPEAEVVMLEQGKEPWALQGERPRQSCPGEKLWDHNQCRKILSYKQVSSQP  
QKMYPGEKAYECAKFEKIFTQSKQLKVHLKVLAGEKLYVCIECGKAFVQKPEFI IHQKTH  
MREKPFKNECGKSFFQVSSLFRHQRIHTGEKLYECSQCGKGFSSYNSDLSIHEKIHTGER  
HHECTDCGKAFTQKSTLKMHQIHTGERSYICIECGQAFIQKTHLIAHRRHTGEKPYEC  
SNCGKSFISKSQQLVHQRVHTRVKPYICTEYGVFSNNSNLVTHKKVQSREKSSICTECG  
KAFTYRSELI IHQRIHTGEKPYECSDCGKAFTQKSALT VHQRIHTGEKSYICMKCGLAFI  
QKAHLIAHQI IHTGEKPHKCGHCGKLFTSKSQLHVHKRIHTGEKPYMCNKCGKAFTNRSN  
LITHQKTHTEKSYISCKGKAFTQRSDLITHQRIHTGEKPYECNTCGKAFTQKSHLNTH  
QKIHTGERQYECHECGKAFNQKSILIVHQIHTGEKPYVCTECGRAFIRKSNFITHQRIH  
TGEKPYECSDCGKSFTSKSQLLVHQPVHTGEKPYVCAECGKA FSGRSNLSKHQKTHTEK  
PYICSECGKTFRQKSELITHHRIHTGEKPYECSDCGKSFTKSQLVHQRIHTGEKPYVC  
AECGKAFTDRSNLNKHQTTHTGDKPYKCGICGKGFVQKSVFSVHQSSHA

>sp|E7ETH6|Z587B\_HUMAN Zinc finger protein 587B OS=Homo sapiens GN=ZNF587B PE=1 SV=1  
MAVVATLRLSAQGTVT FEDVAVKFTQEEWNLLSEAQRCLYRDVTLENLALMSSLGCWCGV  
EDEAAPSKQSIYIQRETQVRTPTVGVSPKKAHPCEMCGPILGDILHVADHQGTHHKQKLH  
RCEAWGNKLYDSGNFHQHQNEHIGEKPYRGSVEEALFVKRCKLHVSGESSVFSESGKDFL  
PRSGLLQQEASHTGEKSNSKTECVSPFQCGGAHYSHGDSMKHFSTKHILSQHQRLLPREE  
CYVCCCEGKSFSKYVSFSNHQRVHSGKRPYECGECEKSFSQKSSLIQHQQFHTGGKPYGC  
EECGKYFSLEGYLRRHQKVHAGKGPYECGECEKSFSSNVNLKSHQRIHTGERPYKCGECE  
KSFSRKPSLSYHQRFRGRPRWVDHKDRKEFKTSLGNIVKSCLF

>sp|A8MUZ8|Z705G\_HUMAN Putative zinc finger protein 705G OS=Homo sapiens GN=ZNF705G PE=2  
SV=2

MHSLKKLTFEDVAIDFTQEEWAMMDTSKRKLYRDVMLENISHLVSLGYQISKSYIILQLE  
QGKELWREGRVFLQDQPNPNRESALKKTHMISMHPITRKDASTMTMENSLILEDPFECND  
SGEDCTRSSTITQCLLTHSGKKPYVSKCGKSLRNLLSTEPHKQIHTKGKSYQCNLCEKA  
YTNCFHLLRRHKMTHTERPYACHLCRKAFTQCSHLRRHEKTHTGQRPYKCHQYGVFIQS  
FNLQRHERTHLGKKCYECDKSGKAFSQSSGFRGNKI IHTGEKPHACLLCGKA FSLSSNLR

>sp|Q9Y6R6|Z780B\_HUMAN Zinc finger protein 780B OS=Homo sapiens GN=ZNF780B PE=2 SV=1  
MVHGSVTFRDVAIDFSQEEWECLQPDQRTL YRDVMLENYSHLISLGSSISKPDVITLLEQ  
EKEPWIVVSKETSRWYPDLESKYGPEKISPENIDFEINLPKHVIKQISKTLGLEAFYFRN  
DSEYRSRFEGRQGHQEGYINQKIIISYEEMPAYTHASPIHNTHKPYECKEKGKGFSCGSNL  
IQHQS IHTGEKPYKCKEKGAFQLHIQLTRHQQFHTGEKTFECKEKGAFNLPTQLNRHK  
NIHTVKKLFECKEKGKSFNRSSNLTHQHSIHAGVKPYQCKEKGKAFNRGSNL IQHQQIHS  
NEKPFVCRECEMAFRYHYQLIEHCRIHTGEKPFECKEKRKAFTLLTKLVRHQIHMGEKP  
FECRECGKAFSLLNLNRHKNIHTGEKPFECKEKGKSFNRSSNL IQHQS IHADV KPYECK  
ECGKGFNRGANLIQHQQIHSNEKPFVCRECEMAFRYHYQLIQHCQIHTGGKPFECKEKGK  
AFSLLTQLARHKNIHTGEKPFECKDCGKAFNRGSNLVQHQS IHTGEKPYECKEKGKAFRL

HLQLSQHEKTHTEGKPFECKECGKFFRRGSNLNQHRSIHTGKKPFECKECGKAFRLHMH  
IRHQKFHTGEKPFECKECGKAFSLHTQLNHHKNIHTGEKPFKCECGKSFNRVSNLVQH  
SIHAGVKPYECKGKFSRVSNLIQHQTSSAKPFVCKEKRKTFRYHYQLTEHYRIHT  
GEKPFECKECGKAFGLLTQLAQHQIHTGEKPFKCECGKAFNRGSNLVQPQSIHTGEK  
YECKEKGAFRLHLQLSLHQKLQVRNPLNVRNVGQPSDISSNLLNIRKFILG

>sp|Q49A33|Z876P\_HUMAN Putative zinc finger protein 876 OS=Homo sapiens GN=ZNF876P PE=5 SV=3

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KPYTCEECGKAFYRSSHLTEHKNHTGEKSYKCEECGNAFYRSSHLTKHKRIHSGQKPYK  
CEECGKAFRQSSALNEHKKIHTAEKPYKCECGKAFRWSRSLNEHTNIHIGEKPYTCEEC  
GKDFTWSSTLTVHQRIQTGEKHS

>sp|P25311|ZA2G\_HUMAN Zinc-alpha-2-glycoprotein OS=Homo sapiens GN=AZGP1 PE=1 SV=2

MVRMVPVLLSLLLLGPAVPQENQDGRYSITYIYTGLSKHVEDVPAFQALGSLNDLQFFR  
YNSKDRKSQPMGLWRQVEGMEDWKQDSQLQKAREIDFMETLKDIVEYYNDSNGSHVLQGR  
FGCEIENNRSSGAFWKYYYDGDYIEFNKEIPAWVPFDPAAQITKQKWEAEVYVQRAKA  
YLEEECPATLRKYLKYSKNILDRQDPPSVVVTSHQAPGEKKKLKCLAYDFYPGKIDVHWT  
RAGEVQEPELRGDLHNGNGTYQSWVVAVPPQDTAPYSCHVQHSSLAQPLVVPWEAS

>sp|Q9HCK0|ZBT26\_HUMAN Zinc finger and BTB domain-containing protein 26 OS=Homo sapiens GN=ZBTB26 PE=1 SV=2

MSERSDLLHFKFENYGDSMLQKMNKLREENKFCDVTVLIDDIQVGHKIVFAAGSPFLRD  
QFLLNDSREVKISILQSSEVGRQLLLSCYSGVLEFPEMELVNYLTAASFLQMSHIVERCT  
QALWKFIFKPKQPMDSKEGCEPQSASPQSKEQQGDARGSPKQDSPCIHPSEDSMDMEDSDI  
QIVKVESIGDVSEVRSSKKDQNFISSEPTALHSSEPQHSLINSTVENRVSEIEQNHLHNY  
ALSYTGSNDNIIMASKDVFGPNIRGVDKGLQWHHQCPCCTRVRHLENYANHLKMHKLFMC  
LLCGKTFTQKGNLHRHMRVHAGIKPFQCKICGKTFSQKCSLQDHLNLHSGDKPHKCNCD  
MVFHAKPVLKRHLKQLHKGNSFDNANERNVQDLTVDFDSFACTTVTDSKGCQPQPDATQV  
LDAGKLAQAVLNLRNDSTCVN

>sp|O15060|ZBT39\_HUMAN Zinc finger and BTB domain-containing protein 39 OS=Homo sapiens GN=ZBTB39 PE=2 SV=1

MGMRIKLQSTNHPNLLKELNKCRLSETMCDVTIVVGSRSFPAHKAVLACAAGYFQNLFL  
NTGLDAARTYVVDFITPANFEKVSFVYTSELFTDLINVGVIYEVAERLGMEDLLQACHS  
TFPDLESTARAKPLTSTSESHGTLSCPSAEPAPHLGELRGGDYLGADRNYVLPDAGG  
SYKEEENVASDANHSLHLPQPPPPPKTEDHDTAPFTSIPSMMTQPLLGTVSTGIQTS  
TSSCQPYKVQSNQDFSKNSFLTPDNAVDITGTNSCLSNSEHSKDPGFGQMDQLLEDLG  
DDDLQFEDPAEDIGTTEEVIELSDDSEDELAFGENDNRENKAMPCQVCKKVLEPNQLIR  
QHARDHVDLLTGNCVCETHFQDRNSRVTHVLSHIGIFLFSDCMCETKFFTQWQLTLHRR  
DGIFENNIIVHPNDPLPGKLGLFSGAASPELKCAACGKVLAKDFHVVRGHILDHLNLKGQ  
ACSVCDQRHLNLCSLMWHTLSHLGISVFSCSVCANSFVDWHLLEKHAMVHQSLDALFHC  
RLCSQSFKSEAARYHVVSQHKNSGLDARPGFGLQHPALQKRKLPAEEFLGEELALQCGP  
GNSKYSCVKCGKRAHTSEFNHRRHTGEKPYQCKVCHKFFRGRSTIKCHLKTTHSGALM  
YRCTVCGHYSSTLNLMSKHVGVHKGSLPPDFTIEQTFMYIIHSKEADKNPDS

>sp|B2RXF5|ZBT42\_HUMAN Zinc finger and BTB domain-containing protein 42 OS=Homo sapiens GN=ZBTB42 PE=1 SV=2

MEFPEHGGRLGRRLRQQRELGLCDCTVLVGDAFPAHRAVLAACSVYFHLFYRDRPAGS



RDTVRLNGDIVTAPAFGRLLDFMYEGRDLRSLPVEDVLAASYLHMYDIVKVCKGRLQE  
KDRSLDPGNPAPGAEPAPPCWPVWTADLCPAARKAKLPPFGVKAALPPRASGPPPCQV  
PEESDQALDSLKSGPRQERVHPPCVLQTPLCSQRQPGAQPLVKDERDSLSEQEESSSSR  
SPHSPPKPPPVPAAGLVVGLQPLPLSGEGSRELELGAGRLASEDELGPGGPLCICPLCS  
KLFPSHVLQLHLSAHFRERDSTRARLSPDGVAPTCLCGKTFSCITYTLKRHERTHSGEK  
PYTCVQCGKSFQYSHNLSRHTVVHTREKPHACRWCERRFTQSGDLYRHVRKFHCGLVKSL  
LV

>sp|Q8NCP5|ZBT44\_HUMAN Zinc finger and BTB domain-containing protein 44 OS=Homo sapiens  
GN=ZBTB44 PE=1 SV=1

MGVKTFTHSSSSHSQEMLGKLNMLRNDGHFCDITIRVQDKIFRAHKVLAACSDFFRTKL  
VGQAEDENKNVLDLHHVTVTGFIPLLEYAYTATLSINTENIIDVLAASYSYMQMFSVASTC  
SEFMKSSILWNTPNQPEKGLDAGQENNSNCNFTSRDGSISPVSSSESVVERTIPVCRES  
RRKRKSYIVMSPESPVKCGTQTSSPQVLNSSASYSENRNQPVDSLAFPWTFPFGIDRRI  
QPEKVKQAENTRTLELPGPSETGRRMADYVTCESTKTTLPLGTEEDVRVKVERLSDEEVH  
EEVSQPVASQSSSLDQQTVPQSEVQVEDLLISQSSSIGSVDEGVSEGLPTLQSTSSTN  
APPDDDDRLENVQYPYQLYIAPSTSSTERPSPNGPDRPFQCPCTGVRFTRIQNLKQHMLI  
HSGIKPFQCDRCGKGFTRAYSLKMHRLKHGKRCFRCQICSATFTSFGEYKHHMRVSRHI  
IRKPRIYECKTCGAMLTNSGNLIVHLRSLNHEASELANYFQSSDFLVPDYLNQEQEETLV  
QYDLGEHGFESNSSVQMPVISQYHSGKKEP

>sp|Q8NAP8|ZBT8B\_HUMAN Zinc finger and BTB domain-containing protein 8B OS=Homo sapiens  
GN=ZBTB8B PE=2 SV=2

MEMQSYAKLLGELNEQKRKDFCDCSIIVEGRIFKAHRNIFANSGYFRALLIHYIQDS  
GRHSTASLDIVTSDAFSIIIDFLYSGKLDLCGENVIEVMSAASYLQMNDDVNFCKTYIRS  
SLDICRMEKEAATAAAAAAHHQVDESPSSGREGTSCGTKSLVSSPA  
EGEKSVECLRESPCGDCGDCHPELVVRDSLGGGSADSNLSTPPKRIEKPVEFDADEVEV  
DVGEQLQQYAAPLNLAHVEEALPSGQAVDLAYSNYHVKKFLEALLRNSAAPSKDDADHHF  
SRSLEGRPEGAGVAMSSMDVQADWYGEDSGDVLVPIKLHKCPFCPYTAKQKQILKRHI  
RSHTGERPYPCECTCGKRFTRQEHLSHALSVHRSNRPIICKGCRRTFTSHLSQGLRRFGL  
CDSCCTCVTDTPDDDDDLMPINLSLVEASSESQEKSDTDNDWPIYVESGEENDPAGDDSD  
KPQIQPNLSDRETLT

>sp|Q8N680|ZBTB2\_HUMAN Zinc finger and BTB domain-containing protein 2 OS=Homo sapiens  
GN=ZBTB2 PE=1 SV=1

MDLANHGLILLQQNLNAQREFGLCDCTVAIGDVYFKAHKSVLASFSNYFKMLFVHQTSEC  
VRLKPTDIQPDIFSYLLHMYTGKMAPQLIDPVRLEQGIKFLHAYPLIQEASLASQGAFS  
HPDQVFPLASSLYGIQIADHQLRQATKIASAPEKLGRDPRPQTSRISQEQVPEASQLSQL  
TSNLAQVNRTNMTSPDLQTSLSPELVSTPVPVPPPPGEETNLEASSSDEQPASLTIAHVK  
PSIMKRNGSFPKYYACHLCGRRFTLRSSLREHLQIHTGVPFTSSQQGESRVPLTLCNAA  
DLGKDAMEVPEAGMISDSELQHISDSPIIDGQQQSETPPPSDIADIDNLEQADQEREVKR  
RKYECTICGRKFIQKSHWREHMYIHTGKPFKSTCDKSFCRANQAARHVCLNQSIDTYTM  
VDKQTELELCTFEESQMDNMLVQTNKPYKCNLCDKTFSTPNEVVKHSCQNQNSDVFALDE  
GRSILLGSGDSEVTEPDHPVLASIKKEQETVLLD

>sp|O15062|ZBTB5\_HUMAN Zinc finger and BTB domain-containing protein 5 OS=Homo sapiens  
GN=ZBTB5 PE=1 SV=1

MDFPGHFEQIFQQLNYQRLHGLCDCVIVVGNRHFAHRSVLAACSTHFRALFSVAEGDQ

TMNMIQLDSEVVTAFAALIDMMYTSTLMLGESNVMDVLLAASHLHLNSVVKACKHYLT  
TRTLPMSPPSERVQEQSARMQRSFMLQQLGLSIVSSALNSSQNGEEQPAPMSSSMRSNLD  
QRTFPFMRRLHKKQSAEERARQRLRPSIDESAISDVTPENGPSGVHSREEFFSPDSLKI  
VDNPKADGMTDNQEDSAIMFDQSFQTQEDAQVPSQSDNSAGNMAQLSMASRATQVETSFD  
QEAAPEKSSFQCENPEVGLGEKEHMRVVVKSEPLSSPEPQDEVSDVTSQAEGSESVEVEG  
VVVSAEKIDLSPESSDRSFSDPQSSTDRVGDHILEVTNNLEHKSTFSISNFLNKSARGNN  
FTANQNDDNIPNTTSDCRLESEAPYLLSPEAGPAGGPSSAPGSHVENPFSEPADSHFVR  
PMQEV MGLPCVQTSGYQGGEQFGMDFSRSLGLHSSFSRVMIGSPRGGASNFPYYRRIAP  
KMPVVTSVRSSQIPENSTSSQLMMNGATSSFENGHPSPQGPPLTRASADVLSKCKKALS  
EHNVLVVEGARKYACKICKTFLTLTDCKKHIRVHTGEKPYACLKCGKRFSQSSHLYKHS  
KTTCLRWQSSNLPSTLL

>sp|075152|ZC11A\_HUMAN Zinc finger CCCH domain-containing protein 11A OS=Homo sapiens  
GN=ZC3H11A PE=1 SV=3

MPNQGEDCYFFFYSTCTKGDSCPRHCEAAIGNETVCTLWQEGRCFRQVCRFRHMEIDKK  
RSEIPCYWENQPTGCQKLNCAFHNNRGRYVDGLFLPPSKTVLPTVPESPEEEVKASQLSV  
QQNKLSVQSNPSPQLRSVMKVESSENVSPSTHPPVVINAADDEDDDDQFSEEGDETKTP  
TLQPTPEVHNGLRVTSVRKPAVNIKQGECLNFGIKTLEEIKSKMKKEKSKKQGEKSSGVS  
SLLLHPEPVPGPEKENVRTVVRTVTLSTKQGEELVRLSLTERLGKRKFSAGGSDPPLK  
RSLAQRLGKKVEAPETNIDKTPKKAQVSKSLKERLGMSADPDNEDATDKVNKVGEIHVKT  
LEEILLERASQKRGELQTKLKTGEPSTDDSTSGARSSSTIRIKTFSEVLAEEKHRQQA  
ERQKSKKDTTCIKLKIDSEIKKTVVLPPIVASRGQSEEPAGKTKSMQEVHIKTLEEIKLE  
KALRVQSSSESTSSPSQHEATPGARRLLRITKRTGMKEEKNLQEGNEVDSQSSIRTEAK  
EASGETTGVDITKIQVKRCETMREKHMQQQEREKSVLTPLRGDVASCNTQVAEKPVLT  
VPGITRHLTKRLPTKSSQKVEVETSGIGDSSLNVKCAAQTLEKRGKAKPKVNVKPSVVKV  
VSSPKLAPKRKAVEMHAAVIAAVKPLSSSSVLQEPKAAVAVVPLVSEDKSVTVPEAE  
NPRDSLVLPTQSSSDSSPPEVSGPSSSQMSMKTRRLSSASTGKPPLSVEDDFEKLWEI  
SGGKLEAEIDLDPGKDEDDLLELSEMIDS

>sp|Q5HYM0|ZC12B\_HUMAN Probable ribonuclease ZC3H12B OS=Homo sapiens GN=ZC3H12B PE=2 SV=3

MTATAEVETPKMEKSASKEEQPKQDSTEQGNADSEEWMSSESDPEQISLKSSDNSKSC  
QPRDGQLKKKEMHSPHRQLCRSPCLDRPSFSQSSILQDGKLDLEKEYQAKMEFALKLGY  
AEEQIQSVLNKLGPESLINDVLAELVRLGNKGDSEGQINLSLLVPRGPSSREIASPELSL  
EDEIDNSDNLRPVVIDGSNVAMSHGNKEEFSCRGILAVDWFLDKGHKDITVFPAPWRKE  
QSRPDAPITDQDILRKLEKEKILVFTPSRRVQGRRVVCYDDRFIGVLAFFSDGIIVSNDN  
YRDLQVEKPEWKKFIEERLLMYSFVNDKFMPPDDPLGRHGPSLENFLKRPIVPEHKKQP  
CPYGGKCTYGHKKYYHPERANQPQRSVADELRIASAKLSTVKTMSEGTAKCGTGMSSAK  
GEITSEVKRVAPKRQSDPSIRSVAMEPEEWLSIARKPEASSVPSLVTALSVPTIPPPKSH  
AVGALNTRSASSVPVGSSHPHQKASLEHMASMQYPPILVTNSHGTPISYAEQYPKFESM  
GDHGYYSMLGDFSKLNINSMHNREYYMAEVDRGVYARNPNLCSDSRVSHTRNDNYSSYN  
VYLAVADTHPEGNLKLRHSASQNRQLQPFPHGYHEALTRVQSYGPEDSKQGPBKQSVPHLA  
LHAQHPSTGTRSSCPADYMPNPIHGPATPQPGRALVMTRMDSISDSRLYESNPVRQRRP  
PLCREQHASWDPLPCTTDSYGYHSYPLSNSLMQPCYEPVMVRSVPEKMEQLWRNPWVGMC  
NDSREHMIPEHQYQTYKNLCNIFPSNIVLAVMEKNPHTADAQQLAALIVAKLRAAR

>sp|Q8WU90|ZC3HF\_HUMAN Zinc finger CCCH domain-containing protein 15 OS=Homo sapiens  
GN=ZC3H15 PE=1 SV=1

MPPKKQAQAGGSKKAEQKKKEKIIEDKTFGLKNKKGAKQQKFIKAVTHQVKFGQQNPRQV  
AQSEAEKKLKKDDKKKELQELNELFKPVVAAQKISKGADPKSVVCAFFKQGQCTKGDCK  
FSHDLTLERKCEKRSVYIDARDEELEKDTMDNWDEKKLEEVVNKKHGEAEKKPKTQIVC  
KHFLEAIENNKYGWFWVCPGGGDCMYRHALLPPGFVLKKDKKKEEKEDEISLEDLIERER  
SALGPNVTKITLESFLAWKKRKRQEKIDKLEQDMERRKADFAGKALVISGREVFEPFRPE  
LVNDDDEEADDTRYTQGTGGDEVDDSVSVNDIDLSTLYIPRDVDETGITVASLERFSTYTS  
DKDENKLEASGGRAENGERSDLEEDNEREGTENGIDAIPVDENLFTGEDLDELEELN  
TLDLEE

>sp|Q8N8U3|ZCHC5\_HUMAN Zinc finger CCHC domain-containing protein 5 OS=Homo sapiens  
GN=ZCHC5 PE=2 SV=1

MVEDLAASYIVLKLENEIRQAQVQWLMEENAALQAQIPELQKSQAKEYDLLRKSSEAKE  
PQKLPEHMNPAAWEAQKTPEFKEPQKPPEPQDLLPWEPPAAWELQEAPAPESLAPPAT  
RESQKPPMAHEIPTVLEGQGPANTQDATIAQEPKNSEPQDPPNIEKPQEAPEYQETAAQL  
EFLELPPPQEPLEPSNAQEFLELSAAQESLEGLIVVETSAASEFPQAPIGLEATDFPLQY  
TLTFSGDSQKLPEFLVQLYSYMRVRGHLYPTEAALVSFVGNCFSGRAGWWFQLLLDIQSP  
LLEQCESFIPVLQDTFDNPNMKDANQCIHQLCQGEQGHVATHFHLIAQELNWDSTLWIQ  
FQEGLOSSIQDELSTPATNLSDLITQCISLEEKPDNPLGKSSSAEGDGPEPPAENQ  
PMQAAINCPHISEAEWVRWHKGRCLCYGYPGHFARDCPVKPHQALQAGNIQACQ

>sp|Q9H0M4|ZCPW1\_HUMAN Zinc finger CW-type PWWP domain protein 1 OS=Homo sapiens GN=ZCPW1  
PE=1 SV=2

MMTTLQNKKECGKPKRIFAPPAQKSYSLPCSPNSPKEETPGISSPETEARISLPKASL  
KKKEEKATMKNVPSREQEKKRKAQINKQAEKKEKEKSSLTNAEFEEIVQIVLQKSLQECL  
GMGSGLDFAETSCAQPVVSTQSDKEPGITASATDTDNANGEEVPHTQEISVSWEGEAAPE  
IRTSKLGQPDPAKSKKSNRLTSLKRKKEAHEKVEKTQGGHEHRQEDRLKKTVDHSQIR  
DQKQGEISGFGQCLVWVQCSFPNCGKWRRLCGNIDPSVLPDNWSCDQNTDVQYNRCDIPE  
ETWTGLESADVAYASYIPGSI IIAKQYGYPPWPGMIESDPDLGEYFLTSHLDSLPSKYHV  
TFFGETVSRWIPVNMKNFQELSLELSVMKKRRNDCSQKLGVALLMAQEAQISIQERV  
NLFGFWSRFNGSNSNGERKDLQLSGLNSPGSCLEKKEKEEKEEKEEKEKTDPILPIRKRV  
KIQTQTKPRGLGGDAGTADGRGRTLQRKIMKRSLGRKSTAPPAPRMGRKEGQGNSSDQ  
PGPKKKFKAPQSKALAASFSEGKEVRTVPKNLGLSACKGACPSSAKEEPRHREPLTQEAG  
SVPLEDEASSDLLEQLMEDVGRELQSGELQHSNSDGEDFPVALFGK

>sp|Q8TBF4|ZCRB1\_HUMAN Zinc finger CCHC-type and RNA-binding motif-containing protein 1  
OS=Homo sapiens GN=ZCRB1 PE=1 SV=2

MSGGLAPSKSTVYVSNLPSLTNNDLIRIFSKYGVVKTIMDKDTRKSKGVAFILFLD  
KDSAQNCTRAINNKQLFGRVIKASIAIDNGRAAEFIRRRNYFDKSKCYECGESGHLASYAC  
PKNMLGEREPPKKKEKKKKKAPEPEEEIEEVEESEDEGEDPALDSLQAIAFQQAKIEE  
EQKKWKPPSSGVPSTSDSRRPRIKKSTYFSDEEELSD

>sp|Q8IVQ6|ZDH21\_HUMAN Palmitoyltransferase ZDHHC21 OS=Homo sapiens GN=ZDHHC21 PE=2 SV=1

MGLRIHFVVDPHGWCCMGLIVFVWLYNIVLIPKIVLFPHYEEGHIPGILIIIFYGISIFC  
LVALVRASITDPGRLPENPKIPHGEREFWELCNKCNLMRPKRSHHCSRCHCVRMDHHC  
PWINNCGEDNHWLFLQLCFYTELLTCYALMFSFCHYYYFLPLKRNLDLFFVRHELAIM  
RLAAFMGITMLVGITGLFYTLIGIITDTTSIEKMSNCCEDISRPRKPWQQTFSEVFGTR  
WKILWFIPFRQRQPLRVPHYFANHV

>sp|Q6UX98|ZDHC24\_HUMAN Probable palmitoyltransferase ZDHC24 OS=Homo sapiens GN=ZDHC24 PE=1 SV=1

MGQPWAAAGSTDGAPAQPLVLTLWAAVGLLAYVLVLGPGPPPLGLARALQLALAAF  
QLLNLLGNVGLFLRSDPSIRGVMLAGRGLGQWAYCYQCQSQVPPRSGHCSACRVCILRR  
DHHCRLLGRCVGFGNYPFLCLLLHAAGVLLHVSVLLGPALSALLRAHTPLHMAALLLP  
WLMLLTGRVSLAQFALAFVTDTCVAGALLCGAGLLFHGMILLRGQTTWEWARGQHSYDLG  
PCHNLQAALGPRWALVWLWPFSLPGDGITFQTTADVGHSTAS

>sp|Q9C0B5|ZDHC5\_HUMAN Palmitoyltransferase ZDHC5 OS=Homo sapiens GN=ZDHC5 PE=1 SV=2

MPAESGKRFKPSKYVPVSAIAIFLVGATTLFFAFTCPGLSLYVSPAVPIYNAIMFLFVLA  
NFSMATFMDPGIFPRAEDEDKEDDFRAPLYKTVEIKGIQVRMKWCATCRFYRPPRCSHC  
SVCNDCVEEDHHCWPVNNCIGRRNYRYFFLFLSLTAHIMGVFGFGLLYVLYHIEELSG  
VRTAVTMAVMCVAGLFFIPVAGLTGFHVVLVARGRTTNEQVTGKFRGGVNPFTNGCCNNV  
SRVLCSSPAPRYLGRPKKEKTIVIRPPFLRPEVSDGQITVKIMDNGIQGELRRTKSKGSL  
EITESQSADAEP PPPPKPDLRYTGLRTHLGLATNEDSSLLAKDSPPTPTMYKYRPGYSS  
SSTSAAMPHSSSAKLSRGDSLKEPTSIAESSRHPYSRSEPSLEPESFRSPTFGKSFHFD  
LSSGSRSSSLKSAQGTGFELGQLQSIRSEGTSTSYKSLANQTRNGSLSYDSLLTPSDSP  
DFESVQAGPEPDPLGYTSPFLSARLAQQREAERHPRLVPTGPTHREPSPVRYDNLRI  
VASLQEREKLLRQSPPLPGREEEPGLGDSGIQSTPGSGHAPRTSSSSDDSKRSPLGKTPL  
GRPAVPRFGKPDGLRGRGVGSPEPGPTAPYLGRSMSYSSQKAQPGVSETEEVALQPLLTP  
KDEVQLKTTYSKSNGQPKSLGSASPGGQPPLSSPTRGGVKKVSGVGGTTYEISV

>sp|Q9H6R6|ZDHC6\_HUMAN Palmitoyltransferase ZDHC6 OS=Homo sapiens GN=ZDHC6 PE=1 SV=1

MGTFCSVIKFENLQELKRLCHWGPIIALGVIAICSTMAMIDSVLWYWLHTTGGSVNFIM  
LINWTVMILYNYFNAMFVGPGFVPLGWKPEISQDTMYLQYCKVCQAYKAPRSHHCRKCN  
CVMKMDHHCWPINNCCGYQNHASFTLFLLLAPLGCIAAIFVMTMYTQLYHRLSFGWNT  
VKIDMSAARRDPLPIVPFGLAAFATTLFALGLALGTTIAVGMLFFIQMKIILRNKTSIES  
WIEEKAKDRIQYYQLDEVFVFPYDMGSRWRNFKQVFTWSGVPEGDGLEWVPVREGCHQYSL  
TIEQLKQKADKRVRSVRYKVIEDYSGACPLNKGIKTFFTSPTCTEEPRIQLQKGEFILAT  
RGLRYWLYGDKILDDSFIEGVSRIRGWFPRKCVEKCPDAETDQAPEGEKKNR

>sp|Q8TCF1|ZFAN1\_HUMAN AN1-type zinc finger protein 1 OS=Homo sapiens GN=ZFAND1 PE=1 SV=1

MAELDIGQHCQVEHCRQRDFLPVFCDDCSGIFCLEHRSRESHGCEPVTVINERLKTQHT  
SYPCSFKDCARELVAVICPYCEKNFCLRHRHQSDHECEKLEIPKPRMAATQKLVKDIID  
SKTGETASKRWKGAKNSETAAKVALMKLMHADGDKSLPQTERIYFQVFLPKGSKEKSKP  
MFFCHRWSIGKAIDFAASLARLKNNDNNKFTAKKLRLCHITSGEALPLDHTLETWIAKEDC  
PLYNGGNIILEYLNDEEQFCKNVESSYLE

>sp|Q86UP3|ZFHX4\_HUMAN Zinc finger homeobox protein 4 OS=Homo sapiens GN=ZFHX4 PE=1 SV=1

METCDSPPISRQENGQSTSKLCGTTQLDNEVPEKVAGMEPDRENSSTDDNLKTDERKSEA  
LLGFSVENAAATQVTSAKEIPCNECATSFPSLQKYMHHCPNARLPVLKDDNESEISELE  
DSDVENLTGEIVYQPDGSAYIIEDSKESGQNAQTGANSKLFSTAMFLDSLASAGEKSDQS  
ASAPMSFYPIINTFHIASSLGKPFADQAFNPNTSALAGVGPVLHSFRVYDLRHKREKDY  
LTSDGSAKNSCVSKDVPNNVDLSKFDGCVSDGKRKPVLMCFCKLSFGYIRSFVTHAVHD  
HRMTLNDEEQKLLSNKCVSAIIQIGIGKDEPLISFLEPKKSTSVYPHFSTTNLIGPDPTF  
RGLWSAFHVENGDSLPAFGAFLKGSASTSSSAEQPLGITQMPKAEVNLGGLSSLVNTPI  
TSVSLSHSSSESSKMSKQENNCERPKEENVLHPNGECPVKSEPTPEGDEDEEDAYS  
NELDDEEVLGELTDSIGNKDFPLLNQSIPLSSSVLKFIKGTSSSSATVSDDTEKKKQTA

AVRASGSVASNYGISGKDFADASASKDSATAAHPSEIARGDEDSSATPHQHGFSTPSTPGT  
PGPGGDGSPGSGIECPKCDTVLGSSRSLGGHMTMMHSRNSCKTLKCPKCNWHYKYQQTLE  
AHMKEKHPEPGGSCVYCKTGQPHRLARGESYTCGYKPFRCVNCYSTTTKGNLSIHMQS  
DKHLNNVQNLQNGNGEQVFGHSAPAPNTSLSGCGTPSPSKPKQKPTWRCEVCDYETNVAR  
NLRIHMTSEKHMHNMLLQQNMKQIQHNLHLGLAPAEELYQYYLAQNIGLTGMKLENPA  
DPQLMINPFLDPATAAALAPGLGELSPYISDPALKLFQCAVCNKFTSDSLEALSVHVSS  
ERSLPREEWRVIGDIYQCKLCNYNTQLKANFQLHCKTDKHMKYQLVAHIKEGGKSNEW  
RLKCIAGNPVHLKCNACDYITNSVDKRLRLHTTNHRHEAALKLYKHLQKQEGAVNPESCY  
YYCAVCDYTTKVKNLNVQHVRSVKHQQTEGLRKLQLHQQLAPEEDNLSEIFFVKDCPPN  
ELETASLGARTCDDDLTEQHEEAEGAIKPTAVAEDDEKDTSERDNSEGKNSNKDSVSVAG  
GTQPLLLAKEEDVATKRKPTEDNKFCHQFYQCPYCNYSRDQSRIQMHVLSQHSVQPV  
ICCPQCQDVLNKMHLQLHLTHLHVSPPDCVEKLLMTVPVPDVMMPNSMMLPAAASEKSE  
RDTAAVTAEGSGKYSGESPMDDKSMAGLEDSKANVEVKNEEQKPTKEPLEVSEWNKNSS  
KDVKIPDTLQDQLEQQKRQPLSVSDRHVYKYRCNHCSLAFKTMQKLQIHSQYHAIRAAT  
MCNLCQRSFRFTQALKKHLEAGHPPELSEAELQQLYASLPVNGELWAESETMSQDDHGLEQ  
EMEREYVDHEGKASPVGSDSSSIPDDMGSEPKRTLPRFRKGNFTMEKFLDPSRPYKCTV  
CKESFTQKNILLVHNSVSHLHLKKVLQEASSPVPQETNSNTDNKPYKCSICNVAYSQS  
STLEIHMSVLHQTKARAALKLEPSGHVAGGHSIAANVNSPGQGMLDMSLAAVNSKDTHL  
DAKELNKKQTPDLISAQPAHPPQSPAQIQMQLQHELQQQAFFQPQFLNPAFLPHFPMT  
PEALLQFQQPQFLFPFYIPGTEFSLGPDGLPGSATFGMPGMTGMAGSLLEDLKQIQITQ  
HHVGQTQLQILQQQAQQYQATQPQLQPQKQQQPPPPQQQQQQQASKLLKQEQSNIVSAD  
CQIMKDVPSYKEAEDISEKPEKPKQEFISEGEGLKEGKDTKKQKSLEPSIPPPRIASGAR  
GNAAKALLENFGFELVIQYNENRQKVQKKGKSGEGENTDKLECGTCGKLFSNVLIKSHQ  
EHVHGQFFPYAALEKFARQYREAYDKLYPISPSSPETPPPPPPPPPLPPAPPQPSSMGPV  
KIPNTVSTPLQAPPPTPPPPPPPPPPPPPPPPPPSAPPQVQLPVSLDLPLFPSIMMQP  
VQHPALPPQLALQLPQMDALSADLTQLCQQQLGLDPNFLRHSQFKRPRTRITDDQLKILR  
AYFDINNSPSEEQIQEMAESGLSQKVIKHWFRNTLFKERQRNKDSPYNFSNPPITVLED  
IRIDPQPTSLEHYKSDASFSCRSSRTRFTDYQLRVLQDFFDTNAYPKDDEIEQLSTVLNL  
PTRIVVWFQNAQKARKSYENQAETKDNEKREL TNERYIRTSNMQYQCKKCNVVFPRIF  
DLITHQKKQCYKDEDDDAQDESQTEDSMDATDQVVYKHCTVSGQTDAAKNAAAPAASSGS  
GTSTPLIPSPKPEPEKTSKPEYPAEKPKQSDPSPSQGTKPALPLASTSSDPPQASTAQ  
PQPQPQPPKQPQLIGRPPSASQTPVPSSPLQISMTSLQNSLPPQLLQYQCDQCTVAFPTL  
ELWQEHQMHFLAAQNQFLHSPFLERPMDMPYMIFDPNNPLMTGQLLGSSLTQMPPQASS  
SHTTAPTVAASLKRKLLDDKEDNNCSEKEGGNSGEDQHRDKRLRTTITPEQLEILEYKYL  
LDSNPTKMLDHIAREVGLKKRVVQVWFQNTRARERKGGQFRAVGPAQSHKRCPFRCRALFK  
AKSALESHIRSRHWNQKAGYSLPPSPLISTEDGGESPQKYIYFDYPSLPLTKIDLSSE  
NELASTVSTPVSKTAEKSPKNLLSPSSFKAECSEDVENLNAPPAEAGYDQNKTDDETSS  
INTAISDATTGDEGNTTEMESTTGSSGDVKPALSPKEPKTLDTLKPATPTTEVCDDKFL  
FSLTSPSIHFNDKGDHDSFYITDDPDDNADRSETSSIADPSSPNPFGSSNPFKSKSND  
RPGHKRFRFTQMSNLQLKVLKACFSYRTPTMQECEMLGNEIGLPKRVVQVWFQNAKRAKEK  
KFKINIGKPFMINQGGTEGKPECTLCGVKYSARLSIRDHIFSKQHISKVRETVGSQDR  
EKDYLAPTTVRQLMAQQELDRIKKASDVLGLTVQQPGMMDSSSLHGISLPTAYPGLPGLP  
PVLLPGMNGPSSLPGFPPQNSNISAGMLGFPTSATSSPALSLSSAPTPLLQTPPPPPPPP  
PPPPSSSLSGQQTEQQNKESEKKQTKPNKVKKIKEEELEATKPEKHPKKEEKISSALSVL

GKVVGETHVDPIQLQALQNAIAGDPASFIGGQFLPYFIPGFASYFTPQLPGTVQGGYFPP  
VCGMESLFPYGPTMPQTLAGLSPGALLQQYQQYQQNLQESLQKQQKQQQEQQQKPVQAKT  
SKVESDQPQNSNDASETKEDKSTATESTKEEPQLESKSADFSPTYVVPFVKYEFICRKCQ  
MMFTDEDAAVNHQKSFYFGQPLIDPQETVLRVPVSKYQCLACDVAISGNEALSQHLQSS  
LHKEKTIKQAMRNAKEHVRLLPHSVCSPNPNTTSTSQSAASSNNTYPHLSCFSMKSWPNI  
LFQASARRAASPPSSPPSLSLPSTVTSSLCSTSGVQTSPLTESCSDSEDSSELSQKLEDLD  
NSLEVKAKPASGLDGNFNSIRMDMFSV

>sp|Q96MM3|ZFP42\_HUMAN Zinc finger protein 42 homolog OS=Homo sapiens GN=ZFP42 PE=1 SV=2

MSQQLKRAKTRHQKGLGGRAPSGAKPRQGKSSQDLQAEIEPVSASWALCDGYVCYEPGP  
QALGGDDFSDCYIECVIRGEFSQPILEEDSLFESLEYLKKGSEQQLSQKVFEASSLECSL  
EYMKKGVKKELPKQIVGENSLEYSEYMTGKKLPPGGIPGIDLSDPKQLAEFARKKPPINK  
EYDSLAIACPSGCTRKLRNRAALRKHLLIHGPRDHVCAECGKAFVESSKLKRHFLVHT  
GEKPRCTFEGCGKRFSLDFNLRTHVRIHTGEKRFVCPFGQCNRRFIQSNNLKAHILTHA  
NTNKNEQEGK

>sp|Q8N5A5|ZGPAT\_HUMAN Zinc finger CCCH-type with G patch domain-containing protein  
OS=Homo sapiens GN=ZGPAT PE=1 SV=3

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKS  
SLLAALDEERPGRQEDAQYQAFREAITAEVEAPAAARGSGSETVPKAEAGPESAAGGQEE  
EEGEDEEELSGTKVSAPYYSSWGTLEYHNAMVVGTEEAEDGSAGVRVLYLYPTHKSLKPC  
PFFLEGKCRFKENCRRFSGHGVVSLDELPRFQDPDLSSLQAGSACLAKHQDGLWHAARITD  
VDNGYYTVKFDSLLLREAVVEGDGILPLRTEATESDSDSDGTGDSSYARVVGSDAVIDSA  
QSSALCPSLAVVGSDAVIDSGTCSSAFAGWEVHTRGIGSRLLTKMGYEFKGGLGRHAEGRV  
EPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKPPRCRGRGARPGGRPAPRNVDFLNE  
KLQGGAPGALEAGAAPAGRSKDMYHASKSAKRALSLRLFQTEEKIERTQRDIRSIQEAL  
ARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF

>sp|Q63HK3|ZKSC2\_HUMAN Zinc finger protein with KRAB and SCAN domains 2 OS=Homo sapiens  
GN=ZKSCAN2 PE=1 SV=2

MAVALDSQIDAPLEVEGCLIMKVEKDPEWASEPILEGSDSSETFRKCFRQFCYEDVTGPH  
EAFSKLWELCCRWLKPEMRSKEQILELLVIEQFLTILPEKIQAWAQKQCPQSGEEAVALV  
VHLEKETGRLRQQVSSPVHREKHSPLGAWEVADFQPEQVETQPRAVSREEPGSLHSGHQ  
EQLNRKRERRPLPKNARSPWPALADEWNTLDQEVTTTRLPAGSQEPVKDVHVARGFYSY  
RKSVHQIPARQDLYRDFRKENVGVVSLGSAVSTSNKITRLEQRKEPWTGLHSSNKRSI  
LRSNYVKEKSVHAIQVPARSAGKTWREQQQWGLEDEKIAGVHWSYEETKTFLAILKESRF  
YETLQACPRNSQVYGAVAEWLRECGFLRTPEQCRTKFKSLQKSYRKVRNGHMLEPCAFFE  
DMDALLNPAARAPSTDPKKEMIPVRLKRIASAKEHISLVEEEAAEDSDDEIGIEFI  
RKSEIHGAPVLFQNLSGVHWGYEETKTFLDILRETRFYEALQACHRKSPLYGAVAEQLRE  
CGFLRTPEQCRTKFKSLQKSYRKVKNGHVLESCAFYKEMDALINSRASAPSPSTPEEVPS  
PSRQERGGIEVEPQEPTGWEPEETSQEAVIEDSCSERMSEEEIVQEPEFGPPGLLQSPN  
DFEIGSSIKEDPTQIVYKDMEQHRALIEKSKRVVSQSTDPSKYRKRECISGRQWENLQGI  
RQGKPMSPQPRDLGKAVVHQRPVFGKRPYRLLYGESFGRSTRLMCRMTHHKENPYKCGVC  
GKCFGRSRSLIRHQRIHTGEKPFKCLDCGKSFNDSSNFGAHQRIHTGEKPYRCGECGKCF  
SQSSSLIIHQRTHTGEKPYQCGECGKSFTNSSHFAHRRVHTGENPYKCVDCSKSFNNCT  
RFREHRRRIHTGEKPYGCAQCGKRFSKSSVLTKHREHVHREKPLPHPPSLYPENPHKGKT  
DEFKRTF

>sp|Q9HA38|ZMAT3\_HUMAN Zinc finger matrin-type protein 3 OS=Homo sapiens GN=ZMAT3 PE=1 SV=1

MILLQHAVLPPPKQSPSPPM SVATRSTGTLQLPPQKPFGEASLPLAGEEELSKGGEQD  
CALEELCKPLYCKLCNVTLNSAQQAAQAHYQGKNHGKKLRNYAANSCPPPARMSNVVEPA  
ATPVVPVPPQMGSFKPGGRVILATENDYCKLCDASFSSPAVAQAHYQGKNHAKRLRLAEA  
QNSFSSESSELGQRRARKEGNEFKMMPNRRNMYTVQNN SAGPYFNPRSRQRIPRDLAMCV  
TPSGQFYCSMCNVGAGEEMEFRQHLESKQHKS KVS EQRYRNEMENLGYY

>sp|Q9UDW3|ZMAT5\_HUMAN Zinc finger matrin-type protein 5 OS=Homo sapiens GN=ZMAT5 PE=1 SV=1

MGKRYFCDYCDRSFQDNLHNRKKHLNGLQHLKAKKVWYDMFRDAAAILLDEQNKRPCRKF  
LLTGQCDFGSNCRFSHMSERDLQELSIQVEEERRAREWLLDAPELPEGHLEDWLEKRAKR  
LSSAPSSRAEPIRTTVFYQYPVGWPPVQELPPSLRAPPPGGWPLQPRVQWG

>sp|Q9ULJ6|ZMIZ1\_HUMAN Zinc finger MIZ domain-containing protein 1 OS=Homo sapiens GN=ZMIZ1 PE=1 SV=3

MNSMDRHIQQTNDRLQCIKQHLQNPANFHNAATELLDWCGDPRAFQRPFEQSLMGCLTVV  
SRVAAQQGFDLDLGYRLLAVCAANRDKFTPKSAALLSSWCEELGRLLLLRHQKSRQSDPP  
GKLPMQPPSSSMMPKTL SHSDGSFPYDSVPWQQNTNQP GSLSVVTTVWGVNTNTSQQ  
VLGNPMANANNPMNPGGNPMASGMTTSNPGLNSPQFAGQQQFSAKAGPAQPYIQQSMYG  
RPNYPGSGGFGASYPGGPNAPAGMGIPPHTRPPADFTQPA AAAAAA VAAAAATATATAT  
ATVAALQETQNKDINQYGPMGPTQAYNSQFMNQPGPRGPASMGGSMPN ASMAAGMTPSGM  
SGPPMGMNQPRPPGISPFGTGHRMPQQTYPGPRPQSLPIQNIKRYPYPGEPNYGNQQYGP  
NSQFPTQPGQYPAPNPPRPLTSPNYPGQRMPSQPSSGQYPPPTVNMGQYYKPEQFNGQNN  
TFSGSSYSNYSQGNVNRPPRPVPVANYPHSPVPGNPTPPMTPGSSIPPYLSPSQDVKPPF  
PPDIKPNMSALPPPPANHNDELRLTFPVRDGVVLEPFRLEHNLA VSNHVFHLRPTVHRTL  
MWRSDLELQFKCYHHEDRQMNTNWPASVQVSVNATPLTIERGDNKTS HKPLHLKHVCQPG  
RNTIQITVTACCCSHLFVLQLVHRPSVRSVLQGLLKKRLLPAEHCITKIKRNFSSVAASS  
GNTTLNGEDGVEQTAIKVSLKCPITFRRIQLPARGHCKHVQCFDLESYQLNCERGTWR  
CPVCNKTALLEGLEVDQYMWGILNAIQHSEFEEVTIDPTCSWRPVPIKSDLHIKDDPDGI  
PSKRFKTMSPSQMIMPNVEMIAALGPGSPYPLPPPPGGTNSNDYSSQGNNYQGHGNFD  
FPHGNPGGTSMNDFMHGPPQLSHPPDMPNNMAALEKPLSHPMQETMPHAGSSDQPHPSIQ  
QGLHVPHPSSQSGPPLHHS GAPPPPSQPPRQPPQAAPSSHPSDLTFNPSSALEGQAGA  
QGASDMPEPSLDLPELTNPDELLSYLDPPDLPSNSNDDLLSLFENN

>sp|Q8NF64|ZMIZ2\_HUMAN Zinc finger MIZ domain-containing protein 2 OS=Homo sapiens GN=ZMIZ2 PE=1 SV=2

MNSMNPMPKALPPAPHGDGSFAYESVPWQQSATQPAGSLSVVTTVWGVGNATQSQVLGNP  
MGPAGSPSGSSMMPGVAGGSSALTSPQCLGQQAFAEGGANKGYVQQGVYSRGGYPGAPGF  
TTGYAGGPGGLPLSHAARPSTDFQAAAAA VAAAAATATATATVAALQE KQSQELS  
QYGAMGAGQSFNQFLQHGGPRGSPVPAGMNPTGIGGVMGPSGLSPLAMNPTRAAGMTPL  
YAGQRLPQHGYPGPPQAQPLPRQGVKRTYSEVYPGQQYLQGGQYAPSTAQFAPSPGQPPA  
PSPSYPGHRLPLQQGMTQSLSVPGPTGLHYKPTEQFNGQGASFN GGSVSYSQPGLSGPTR  
SIPGYPSPLPGNPTPPMT PSSSVPYMSPNQEVKSPFLPDLKPNLNSLHSSPSGSGPCDE  
LRLTFPVRDGVVLEPFRQLHNLA VSNHVFQLRDSVYKTLIMRPDLELQFKCYHHEDRQMN  
TNWPASVQVSVNATPLTIERGDNKTS HKPLYLKHVCQPG RNTIQITVTACCCSHLFVLQL  
VHRPSVRSVLQGLLKKRLLPAEHCITKIKRNFSSGTIPGTPGPNGEDGVEQTAIKVSLKC

PITFRRIQLPARGHDCRHIQCFDLESYQLNCERGTWRCPCNKTALLEGLEVDQYMLGI  
LIYIQNSDYEEITIDPTCSWKVPVPKPDMDHIKEEPPDGPALKRCRTVSPAHLMPVSMEMI  
AALGPGAAPFAPLQPPSVPAPSDYPGQGSSFLGPGTFPESFPPTTPSTPTLAEFTPGPPP  
ISYQSDIPSSLLTSEKSTACLPQMAPAGHLDPTHNPGTPGLHTSNLGAPPGPQLHHSNP  
PPASRQSLGQASLGPTGELAFSPATGVMGPPMSGAGEAPEPALDLLPELTNPDELLSYL  
GPPDLPTNNDDLLSLFENN

>sp|Q8IZC7|ZN101\_HUMAN Zinc finger protein 101 OS=Homo sapiens GN=ZNF101 PE=1 SV=1  
MDSVAFEDVAVNFTQEEWALLSPSQKNLYRDVTLETFRNLASVGIQWKDQDIENLYQNLG  
IKLRS�VERLCGRKEGNEHRETFSQIPDCHLNKKSQTGVKPCCKSVCGKVFLRHSFLDRH  
MRAHAGHKRSECGGEWRETPRKQKQHGKASISPSSGARRTVTPTRKRPYECKVCGKAFNS  
PNLFQIHQRTHTGKRSYKCREIVRAFTVSSFFRKHGKMHTGEKRYECKYCGKPIDYPSLF  
QIHVRTHTGEKPYKCKQCGKAFISAGYLRTHEIRSHALEKSHQCQECGKKLSCSSSLHRH  
ERTHSGGKLYECKQCAKVFRCPQSLQAHERAHTGERPYECNKGKTFNYPSCFRRHKKTH  
SGEKPYECTRCGAFGWCSLLRRHEMTHTGEKPFDCQCGKVFTFSNYLRLHERTHLAGR  
SQCFGRRQGDHLSPGV

>sp|P52739|ZN131\_HUMAN Zinc finger protein 131 OS=Homo sapiens GN=ZNF131 PE=1 SV=2  
MEAEETMECLQEFPEHHKMILDRLEQREQDRFTDITLIVDGHFHKAHKAVLAACSKFFY  
KFFQEFTQEPLVEIEGVSKMAFRHLIEFTYTAKLMIQEEEEANDVWKAEEFLQMLEAIKA  
LEVRNKENSAPLEENTTGKNEAKRKIAETSNVITESLPSAESEPVEIEVEIAEGTIEVE  
DEGIETLEEVASAKQSVKYIQSTGSSDDSLALLADITSKYRQGDRCQKEDGCPSDPT  
SKQVEGIEIVELQLSHVKDLFHCEKCNRSFKLFYHFKEHMKSHSTESFKCEICNKRYLRE  
SAWKQHLNCYHLEEGVSQKQRTGKKIHVCQYCEKQFDHFGHFKEHLRKHTGEKPFECPN  
CHERFARNSTLTKCHLTACQTGVGAKKGRKKLYECQVCNSVFNSWDQFKDHLVIHTGDKPN  
HCTLCDLWFMQGNELRRHLSDAHNI SERLVTEEVLSVETRVQTEPVTSMITIEQVGKVHV  
LPLLQVQVDSAQVTVEQVHPDLLQDSQVHDSHSELPEQVQVSYLEVGRIQTEEGTEVHV  
EELHVERVNQMPVEVQTELEADLDHVTPEIMNQEERESSQADAAEAAREDHEDAEDLET  
KPTVDSEAEKAENEDRTALPVLE

>sp|P52736|ZN133\_HUMAN Zinc finger protein 133 OS=Homo sapiens GN=ZNF133 PE=1 SV=2  
MAFRDVAVDFTQDEWRLLSPAQRTLYREVMLENYSNLVSLGISFSKPELITQLEQKQETW  
REEKKCSPATCPADPEPELYLDPFCPPGFSSQKFPMQHVLCNHPWIFTCLCAEGNIQPG  
DPGPGDQEQKQQAQSEGRPWSDQAEQEGEGAMPLFGRTKKRTLGAFSRPPQRQPVSSRNG  
LRGVELEASPAQSGNPEETDKLLKRIEVLGFGTVNCGECGLSFSKMTNLLSHQRIHSGEK  
PYVCGVCEKGFSLKSLARHQKAHSGEKPIVCRECGRGFNRKSTLIIHERTHSGEKP YMC  
SECGRGFSQKSNLIIHQRTHSGEKPYVCRECGKGFSSQSAVVRHQRTHLEEKTI VCSDCG  
LGFSDRSNLISHQRTHSGEKPYACEKCGRCFRQRTTLVNHQRTHSKEKPYVCGVCGHSFS  
QNSTLISHRRTHTEKPYVCGVCGRGFSLKSHLNRHQNIHSGEKPIVCKDCGRGFSQSN  
LIRHQRTHSGEKPMVCGECGRGFSQKSNLVAHQRTHSGERPYVCRECGRGFSHQAGLIRH  
KRKHSREKPYMCRQCGLGFGNKSALITHKRAHSEEKPCVCRECGQGLQKSHLTLHQMT  
HTEKPYVCKTCGRGFSKSHLSRHRKTTSVHHRLPVQPDPEPCAGQPSDSL YSL

>sp|P52744|ZN138\_HUMAN Zinc finger protein 138 OS=Homo sapiens GN=ZNF138 PE=1 SV=2  
MKRHEMVVAKHSALCSRFAQDLWLEQNIKDSFQKVTL SRYGKYGHKNLQLRKGCKSVDEC  
KGHQGGFNGLNQCLKITTSKIFQCNKYVKVMHKFSNSNRHKIRHTENKHFRCCKEDKSLC  
MLSRLTQHKKIHTRENFYKCEECKTFNWSNLSKPKKIHTGEKPYKCEVCGKAFHQSSI  
LTKHKIIRTGEKPYKCAHCGKAFKQSSHLTRHKI IHTEEKPYKCEQCGKVFKQSPTLTKH



QIIYTGEOPYKCEECGKAFNLS

>sp|Q15928|ZN141\_HUMAN Zinc finger protein 141 OS=Homo sapiens GN=ZNF141 PE=1 SV=1  
MELLTRFDVAIEFSPPEWKCLDPDQQLYRDVMLENYRNLVSLGVAISNPDLVTCLEQRK  
EPYNVKIHKIVARPPAMCSHFTQDHPVQGIEDSFHKLILRRYEKCGHDNLQLRKGCKSL  
NECKLQKGGYNEFNECLSTTQSKILQCKASVKVVSFKFSNSNKRKTRHTGEKHFKECGKSF  
QKFSHLTQHKVIHAGEKPYTCEECGKAFKWSLIFNEHKRIHTGEKPFTCEECGSIFTTSS  
HFAHKIIHTGEKPYKCEECGKAFNRFTTLTKHKRIHAGEKPITCEECRKIFTSSSNFAK  
HKRIHTGEKPYKCEECGKAFNRSTTLTKHKRIHTGEKPYTCEECGKAFRQSSKLNEHKV  
HTGERPYKCECGKAFGRSRVLNEHKKIHTGEKPYKCEECGKAFFRSTDRSQHKKIHSAD  
KPYKCECDKAFKQFSLLSQHKKIHTVDKPYCKDCDKAFKRFSLNKHKKIHT

>sp|P52738|ZN140\_HUMAN Zinc finger protein 140 OS=Homo sapiens GN=ZNF140 PE=2 SV=2  
MSQGSVTRFDVAIDFSQEEWKWLQPAQRDLRCVMLENYGHLVSLGLSISKPDVVSLEEQ  
GKEPWLKREVKRDLFSVSESSGEIKDFSPKNVIYDDSSQYLIMERILSQGPVYSSFKGG  
WKCKDHTEMLQENQGCIRKVTVSHQEAQAQHMNIHTVERPYGCHECGKTFGRFSLVLHQ  
RTHTGEKPYACECGKTFQSISNLVKHQMIHTGKKPHECKDCNKTFSYLSFLIEHQRTHT  
GEKPYECTECGKAFFSRASNLTRHQRIHIGKKQYICRCKGKAFSSGSELIRHQIHTGEK  
YECIECGKAFFRFSHLTRHQSIIHTTKTPYECNECKAFRCHSFLIKHQRIHAGEKLYECD  
ECGVFTWHASLIQHTKSHTGEKPYACAECDAFSRSFSLILHQRTHTGEKPYVCKVCNK  
SFSWSSNLAKHQRTHTLDNPEYENSFNYSFLTEHQ

>sp|Q14929|ZN169\_HUMAN Zinc finger protein 169 OS=Homo sapiens GN=ZNF169 PE=1 SV=3  
MSPGLLTTRKEALMAFRDVAFAFTQKEWKLLSSAQRTLYREVMLENYSHLVSLGIAFSKP  
KLIEQLEQGDEPWRENEHLLDLCPEPRTEFQPSFPHLVAFSSSQLLRQYALSGHPTQIF  
PSSSAGGDFQLEAPRCSSEKGESGETEGPDSSLRKRPSRISRTFFSPHQGDPVEWVEGNR  
EGGTDLRLAQRMSLGGSDTMLKGADTSESGAVIRGNRLGLSKKSSLSHQKHHVCPECG  
RGFCQRSDLIKHQRTHTGEKPYLCECGRRFSQKASLSIHQRKHSGEKPYVCRECGRHFR  
YTSSLTNHKRIHSGERPFCQECGRGFRQKIALLLHQRTHTLEEKPFVCECGRGFCQKAS  
LLQHQSSTGERPFLCLECGRSFRQQSLLLSHQVTHSGEKPYVCAECGHSFRQKVTILIRH  
QRTHTEKPYLCPQCGRGFSQKVTILIGHQRTHTEKPYLCPDCGRGFGQKVTILIRHQRTHT  
TEKPYLCPKCGRAFGFKSLLTRHQRTHTSEEELYVDRVCGQLGQKSHLISDQRTHSGEK  
PCICDECGRGFGFKSALIRHQRTHTSGEKPYVCRECGRGFSQKSHLHRHRRTKSGHQLLPQ  
EVF

>sp|Q14584|ZN266\_HUMAN Zinc finger protein 266 OS=Homo sapiens GN=ZNF266 PE=1 SV=2  
MLENYKNLATVGYQLFKPSLISWLEQESRTVQRGDFQASEWKVQLTKELALQQDVLGE  
PTSSGIQMIGSHNGGEVSDVKQCGDVSSEHSCLKTHVRTQNSSENTFECYLYGVDFLTLHK  
KTSTGEQRSVFSQCGKAFSLNPDVVCQRTCTGEKAFDCSDSGKSFINHSLQGHLRTHNG  
ESLHEWKECGRGIHSTDLAVRIQTHRSEKPYKCECGKGFYSAYLNIHMGHTGDNPY  
ECKECGKAFTRSQTLQHRKTHTEKPYKCKDCGRAFTVSSCLSQHMKIHVGEKPYECKE  
CGIAFTRSSQLTEHLKTHAKDPFECKICGKSFRNSSCLSDHFRIHTGIKPYKCKDCGKA  
FTQNSDLTKHARTHSGERPYECKECGKAFFARSSRLSEHTRTHTEKPFECVKCGKAFAIS  
SNLSGHLRIHTGEKPFECLECGKAFTHSSSLNNHMRTHSAKKPFTMECGKAFKFTCVN  
LHMRIHTGEKPYKCKQCGKSFSYSNSFQLHERTHTEKPYECKECGKAFFSSSSFRNHER  
RHADERLSA

>sp|Q9Y2P7|ZN256\_HUMAN Zinc finger protein 256 OS=Homo sapiens GN=ZNF256 PE=1 SV=2  
MAAAELTAPAQGIPTFEDVAVYFSWKEWGLLDEAQKCLYHDVMLENLTLTSLGGSGAGD

EEAPYQQSTSPQRVSQVRIPKALPSPQKTNPCIEICGPVLRQILHLVEHQGTHHGQKLYTD  
GACRKQLQFTAYLHQHQKQHVGGKHFRSNGGRDMFLSSCTFEVSGKPFTCKEVGKDFLVR  
SRFLQQAAHTRKKSNRKSAVAFHSVKNHYNWGECVKAFSYKHVRVQHQQDLIRERSYM  
CSECGKSFSTSCSLSDHLRVHTSEKPYTCGECGKSYRQSSSLITHRRIHGTGVRPHQCDEC  
GKLFNRKYDLLIHQRVHTGERPYKCSECGKSFSSHSSSLITHQRIHTGMRPYECSECGKSF  
IHSSSLITHQRVHTGTRPYMCSECGKSFSSQSCHLIKHRRLHIGEGPYECSECGKLFYRS  
RFFQHQRVHTGVRSHCEHECGKLSRKFDLIVHERVHTGERPYECSECGKSFTCKSYLIS  
HWKVHTGARPYECGEGKSFTHSSTLLQHQRVHTGERPYECNECGKFFSQSSSLIRHRRS  
HTGERPYECSECKWSFSNHSSLVKHRRVHTGERPYECSECGKSFSSQSSNLTNHQRIHSGE  
RPYECSDCGKFFTFNSNLLKHQNVHKG

>sp|Q9NSD4|ZN275\_HUMAN Zinc finger protein 275 OS=Homo sapiens GN=ZNF275 PE=1 SV=2  
MMSHPCVSLLGVPVLPALVPHLAQGQVLLVSDPSPNTDPAKYSESTSATRHQMKGEDAQ  
PQEMASTSFPRASGPSPEFRQHGSDSGKRGSPQNLPIEHHFACKECGDTFRLKVLLVQHQ  
RVHSEEKGWECDCGKVFRGVAEFNEHRKSHVAAEPQPGPSRALENAAEKREQMEREAAP  
FECEECGRKRFKNAGLSQHLRVHSREKPFDCCEECGRSFKVNTHLFRHQKLHTSEKPFACK  
ACSRDFLDRQELLKHQRMHTGHLPFDCDDCGKSFRGVNGLAEHQRIHSGAKPYGCPHCGK  
LFRRSSELTKHRRIHTEKPYACGQCGKAFRQSSSLEHARIHSGERPYACGECGKAFRG  
PSDLIKHRRIHSGLPYECDCGKAFRSSGLSRHRIHSGARRCECSQCGRVFKRRSAL  
QKHQPTHHE

>sp|Q2VY69|ZN284\_HUMAN Zinc finger protein 284 OS=Homo sapiens GN=ZNF284 PE=2 SV=1  
MTMFKEAVTFKDVAVVFTEEELGLLDVSRKLYRDVMLENFRNLLSVGHQLSHRDTFHFQ  
REEKFWIMETATQREGNSGGKIQTELESVPETGPHEEWSQCIWEQTASELTRPQDSISS  
SQFSTQGDVPSQVDAGLSIIHIGETPSEHGKCKKFFSDVSIILDLHQQLHSGKISHTCNEY  
RKRFCYSSALCLHQKVMGEKRYKCDVCSKAFSQNSQLQTHQRIHTGEKPFKCEQCGKSF  
SRRSGMYVHCKLHTGEKPHICEECGKAFIHNSQLREHQRIHTGEKPFKCYICGKSFHSRS  
NLNRHSMVHMQESFRCDTCSNSFGQRSALNSHCMDHTKEKLYKCEECGRSFTCRQDLCK  
HQMDHTGDKPYNVCGKGFRWSSCLSRHQRVHNGETTFKCDGCGKRFYMNSQGHSHQRA  
YREEELYKCKGKGYISKFNLDLHQRVHTGERPYNCKEKGKFRWASGILRHKLHTGE  
KPFKCEECGRFTENSKLRFHQRIHTGEKPYKCEECGKFRWASTHLTHQRLHSREKLFQ  
CEDCGKSSEHSSCLQDQDSDHSGEKTSCCEDCGKRYERRLNLDMILSLFLNDI

>sp|Q9NR11|ZN302\_HUMAN Zinc finger protein 302 OS=Homo sapiens GN=ZNF302 PE=1 SV=1  
MSQVTFSDVAIDFSHEEWACLSAQRDLYKDVVMQNYENLVSVGLSVTKPYVIMLLEDGK  
EPWMMEKKLSKAYPFPLSHSVPASVNFGSALFEHCSEVTEIFELSELVFWVLHFLSNS  
PNSTVEAFSRSKKKKKKKKRCFAFLIYFRLGIKMGKQGIINKEGYLYEDSPQPVTMEK  
VVKQSYEFSNSNKNLEYTECDTFRSTFHSKSTLSEPQNSAEGNSHKYDILKKNLSKKS  
IKSERINGGKKLLNSNKGAAFNQSKSLTLPQTCNREKIYTCSECGKAFGKQSILSRHWR  
IHTGEKPYECRECGKTFSHGSSLTRHQISHSGEKPYKIECGKAFSHGSSLTNHQSTHTG  
EKPYECMNCGKSFSRVSLLIQHLRIHTQEKRYECRICGKAFIHSSSLIHHQSHTGEKPY  
ECRECGKAFCCSSHLTQHQRHSMKKKYECNKCLKVFSSFSFLVQHQSIIHTEKPFV

>sp|Q9Y3M9|ZN337\_HUMAN Zinc finger protein 337 OS=Homo sapiens GN=ZNF337 PE=1 SV=2  
MGPQGARRQAFLAFGDVTVDFQKEWRLLSPAQRALYREVTLENYSHLVSLGILHSPKEL  
IRRLEQGEVWPGEERRRRPGPCAGIYAEHVLRPKNLGLAHQRQQQLQFSDQSFQSDTAEG  
QEKEKSTKPMFSSPPLRHAVSSRRRNSVVEIESSQGQRENPTIDKVLKGIENSRWGAF  
KCAERGQDFSRKMMVIHKKAHSRQKLFTCRECHQGFRDESALLHQNTHTGEKSYVCSV

CGRGFS LKANLLRHQRTHSGEKPFLCKVCGRGYTSKSYLTVHERTHTGEKPYECQECGRR  
FNDKSSYNKHLKAHSGEKPFCVCKECCGRGYTNKSYFVVHKRIHSGEKP YRCQECGRGFSNK  
SHLITHQRTHSGEKPFACRQCKQSFSVKGSLLRHQRTHSGEKPFCVCKDCERSFSQKSTLV  
YHQRTHSGEKPFCVCRECGGFIQKSTLVKHQITHSEEKPFVCKDCGRGFIQKSTFTLHQR  
THSEEKPYGCRECGRRFRDKSSYNKHLRAHLGEKRFFCRDCGRGFTLKPNLTIHQRTHSG  
EKPFCMKQCEKSFSLKANLLRHQWTHSGERPFCNCKDCGRGFI LKSTLLFHQKTHSGEKP  
ICSECGGFIWKS NLVKHQLAHSGKQPFVCKECCGRGFNWGNLLTHQRTHSGEKPFCNV  
CGQGFSWKRSLTRHHWRIHSKEKPFVQCCKRGYTSKSDLTVHERIHTGERPYECQECGR  
KFSNKSYYSKHLKRHLREKRFCTGSVGEASS

>sp|Q9GZX5|ZN350\_HUMAN Zinc finger protein 350 OS=Homo sapiens GN=ZNF350 PE=1 SV=3

MIQAQESITLEDVAVDFTWEEWQLLGAAQKDLYRDVMLENYSNLVAVGYQASKPDALFKL  
EQGEQLWTIEDGIHSGACSDIWKVDHVLRLQSESLVNRKPCHEHDAFENIVHCSKSQF  
LLGQNHDI FDLRGKSLKSNLTLVNQSKGYEIKNSVEFTGNGDSFLHANHERLHTAIKFPA  
SQKLISTKSQFISPKHQKTRKLEKHHVCSECGKAFIKKSWLTDHQVMHTGEKPHRCSLCE  
KAFSRKFMLTEHQRTHSGEKP YECPECGKAFLLKKSRLNIHQKTHSGEKP YICSECGKGF  
QKGNLIVHQRHTGEKPYICNECGKGF IQKTCLIAHQRFTGKTPFVCECGKSCSQKSG  
LIKHQRIHTGEKPFECSECGKAFSTKQKLIVHQRTHSGEKP YCNECGKAFAYMSCLVKH  
KRIHTREKQEA AKVENPPAERHSSLHTSDVMQEKNSANGATTQVPSVAPQTSLNISGLLA  
NRNVVLVGQPVVRC AASGDNRGFAQDRNLVNAVNVVPSVINYL FVVTENP

>sp|Q70YC5|ZN365\_HUMAN Protein ZNF365 OS=Homo sapiens GN=ZNF365 PE=1 SV=3

MQQKAF EESRYPWQESFENVAVCLPLRCPRCGDHTRFRSLSSLRAHLEFSHSYEERTLLT  
KCSLFPSLKDTDLVTSSSELLKPGKLQSSGNVVKQKPSYVNLYSISHEHSKDRKPFVVAE  
RPVSYVQTYTAMD LHADSLDGRSGPLPTSDTKASFEAHVREKFNRMVEAVDRTIEKRI  
DKLTKELAQKTAELLEVR AAFVQLTQKKQEVQRRERALNRQVDVAVEMI AVL RQLTESE  
EELLRKEEEVVT FNHFLEAAAEKEVQGKARLQDFIENLLQRVELAEKQLEYYSQQASGF  
VRDLSGHVLTDISSNRKPKCLSRGPHSVCNHPDLKAHFHPKGRNHLKAKDDRASMQPA  
KAIHEQAESSRDL CRPPKKGELLGFRKGNIRPKMAKKKPTAIVNII

>sp|Q7RTV3|ZN367\_HUMAN Zinc finger protein 367 OS=Homo sapiens GN=ZNF367 PE=1 SV=1

MIRGFEAPMAENPPPPPPVIFCHDSPKRVLVSVIRTPPIKPTCGGGGEPEPPPPLIPTS  
PGFSDFMVYPWRWGENAHNVTLSPGAAGAAASAALPAAAAEHSGLRGRGAPPPAASASA  
AASGGEDEEEASSPDSGHLKDGIRRGPRADTVRDLINEGEHSSSRI RCN CNRVFPREK  
SLQAHKRTHGERPYL CDYPDCGKAFVQSGQLKTHQRLHTGEKPFVCSENGCLSRFTAN  
RHCPKHPYARLKREEPTDTLSKHQAADNKA AEWLARYWEMREQRTPTLKGKLVQKADQE  
QQDPLEYLQSDEEDDEKGAQRRLQEQRERLHGALALIELANLTGAPLRQ

>sp|Q53GI3|ZN394\_HUMAN Zinc finger protein 394 OS=Homo sapiens GN=ZNF394 PE=1 SV=2

MNSSLTAQRRGSDAELGPWMAARSKDAAPSQRDGLLPVKVEEDSPGSWEPNYPASPDP  
ETSRLHFRQLRYQEVAGPEEALSRLRELCRRWLRPELLSKEQILELLVLEQFLTILPEEL  
QAWVREHCPESGEEAVAVVRALQRALDGTSSQGMVTFEDTAVSLTWEWERLDPARRDFC  
RESAQKDSGSTVPPSLESRVENKELIPMQQILEEAEPQGQLQEA FQGRPLFSKCGSTHE  
DRVEKQSGDPLPLKLENSPEAEGLNISDVNKNGSIEGEDSKNNELQNSARCSNLVLCQH  
IPKAERPTDSEEHGNCKQSFHMVTWHVLKPHKSDSGDSFHHSSLFETQRQLHEERP YKC  
GNCGKSFKQRSDLFRHQRIHTGEKPYGCECGKSFSQSAALTKHQRTHSGEKP YCLKCG  
ERFRQNSHLNRHQSTHSRDKHFKECEGETCHISNLFRHQRLHKGERPYKCECEKSFQ  
RSDLFKHHRIHTGEKPYGCSVCGKRFNQSATLIKHQRIHTGEKPYKCLECGERFRQSTHL

IRHQRIHQNKVLSAGRGG SRL

>sp|Q8NF99|ZN397\_HUMAN Zinc finger protein 397 OS=Homo sapiens GN=ZNF397 PE=1 SV=2

MAVESGVISTLIPQDPPEQELILVKVEDNFSWDEKFKQNGSTQSCQELFRQQFRKFCYQE  
TPGPREALSRLQELCYQWLMPHELHTEQILELLVLEQFLSILPEELQIWWQQHNPESGEE  
AVTLLEDLEREFDDPGQQVPASPQGPAPVPWKDLTCLRASQESTDIHLQPLKTQLKSWKPC  
LSPKSDCENSETATKEGISEEKSQGLPQEPSFRGISEHESNLVWKQGSATGEKLRSPSQG  
GSFSQVIFTNKS LGKRDLYDEAERCLILTDSIMCQVPPEERPYRCDVCGHSFKQHSSL  
TQHQRHTGEKPYKCNQCGKAFSLRSYLIHQRIHSGEKAYECSECGKAFNQSSALIRHR  
KIHTGEKACKNECGKAFSQSSYLIHQRIHTGEKPYECNECGKTFSSSKLIRHQRIHT  
GERPYECNECGKAFRQSSSELITHQRIHSGEKPYECSECGKAFSLSSNLIRHQRIHSGEEP  
YQNECGKTFKRSSALVQHQRHSGDEAYICNECGKAFRHRSVLMRHQRVHTIK

>sp|Q9BWM5|ZN416\_HUMAN Zinc finger protein 416 OS=Homo sapiens GN=ZNF416 PE=2 SV=1

MAAAVLRDSTSVPTAEAKLMGFTQGCVTFEDVAIYFSQEEWGLLDEAQRLLYRDVMLEN  
FALITALVCWHGMEDEETPEQSVSVEGVPQVRTPEASPSTQKIQSCDMCVPFLTDILHLT  
DLPGQELYLTGACAVFHQDQKHSAEKPLESDMDKASFVQCCLFHESGMPFTSSEVGKDF  
LAPLGILQPQA IANYEKPNI SKCEEAFHVGISHYKWSQCRRESSHKHTFFHPRVCTGKR  
LYESSKCGKACCCECSLVQLRVHPGERPYECSECGKSFSQTSHLNDHRRHTGERPYVC  
GQCGKSFSQRATLIKHHRVHTGERPYECGECGKSFSQSSNLIHCRIHTGERPYECDECG  
KAFGSKSTLVRHQRTHTGEKPYECGECGKLFRQSFSLVVHQRIHTTARPYECGQCGKSFS  
LKCGLIQHQLIHSGARPFECDECGKSFSQRTTLNKHKKVHTAERPVCYECGKAFMFKSK  
LVRHQRTHTGERPFECSECGKFFRQSYTLVEHQKIHTGLRPYDCGQCGKSFIQKSSLIQH  
QVVHTGERPYECGKCGKSFTQHSGLILHRKSHTVERPRDSSKCGKPYSPRSNIV

>sp|Q8TF45|ZN418\_HUMAN Zinc finger protein 418 OS=Homo sapiens GN=ZNF418 PE=1 SV=2

MQGTVAFEDVAVNFSQEEWSLLSEVQRCLYHDVMLENWWLISSLGWCWCGSEDEEAPSKKS  
ISIQRVSVSTPGAGVSPKKAHSCEMCGAILGDILHLADHQGTHHKQKLHRCEAWGNKLY  
DSSNRPHQNQYLGEKPYRSSVEEALFVKRCKFHVSEESSIFIQSGKDFLPSSGLLLQEAT  
HTGEKSNSKPECESPFQWGDTHYSCGECMKHSSTKHVFVQQRLPSREECYCWECGKSFS  
KYDSVSNHQRVHTGKRPYECGECGKSFSHKGSLVQHQRVHTGKRPYECGECGKSFSHKGS  
LVQHQRVHTGERPYECGECGKSFSQNGTLIKHQRVHTGERPYECEECGKFTQKGNLIQH  
QRGHTSERPYECEECGKCFSQKGTLTEHHRVHTRERPYECGECGKSFSRKGHLRNHQRGH  
TGERPYECGECGKSFSRKGNLIQHQRSHHTGERPYECRECRKLFQKSHLIEHQRVHTGER  
PYECNECGKSFQDSSGRVHQRVHTGEKPFECSECGKSFQSCSLLRHRRVHTGERPYEC  
GECGKS FHQSSSLLRHQKTHTAERP YECRECGKFFSLLHRRVHTGERPYECRECGKTF  
TRRSAHFQKHLRHTRGKPYECSECGKSFAETFSLTEHRRVHTGERPYECSECGKSFHRSS  
SLLRHQRVHTERSPYK

>sp|Q2MIK9|ZN423\_HUMAN Zinc finger protein 423 OS=Homo sapiens GN=ZNF423 PE=1 SV=1

MHKKRVEEGEASDFSLAWDSSVTAAGGLEGEPECDQKTSRALEDNRNSVTSQEERNEDDED  
MEDESIYTCDHQCDQDFESLADLTDHRAHRCPGDGGDDPQLSWVASSPSSKDVASPTQMIG  
DGC DLGLGEEEGTGLPYPCQFCDKSFI RLSY LKRHEQIHSDKLPFKCTYCSRLFHKHRS  
RDRHIKLTGDKKYHCHECAA FSRSDHLK IHLKTHSSSKPFKCTVCKRGFSSTSSLQSH  
MQAHKKNEHLAKSEKEAKKDDFMC DYCEDTFSQTEELEKHVLT RHPQLSEKADLQCIHC  
PEVFDENTLLAHIHQAHANQKHKCPMCPEQFSSVEGVYCHLDSHRQPDSSNHSVSPDPV  
LGSVASMSSATPDSSASVERGSTPDSTLKPLRGQKKMRDDGQGWTKVVYSCPYCKRDFN  
SLAVLEIHLKTIHADKPQQSHTCQICLDSMPTLYNLNEHVRKLHKNHAYPVMQFGNISAF

HCNYCPMFADINSLQEHIRVSHCGPNANPSDGNNAFFCNQCSMGFLTESSLTEHIQQA  
CSVGSAKLESPVVQPTQSFMEVYSCPYCTNSPIFGSILKLTKH I KENHKN I PLAHSKKSK  
AEQSPVSSDVEVSSPKRQLSASANSISNGEYPCNQCDLKFSNFESFQTHLKLHLELLLR  
KQACPQCKEDFDSQESLLQHLTVHYMTTSTHYVCESCDKQFSSVDDLQKHLLDMHTFVLY  
HCTLCQEVFDSKVS IQVHLAVKHSNEKKMYRCTACNWD FRKEADLQVHVKHSHLGNPAKA  
HKCIFCGETFSTEVELQCHITTHSKKYNCKFCSKAFHAIILLEKHLREKHCVFDAATENG  
TANGVPPMATKKAEPADLQGM L LKNPEAPNSHEASEDDVDASEPMYGC DICGAAYTMEVL  
LQNHRLRDHNI R PGEDDGS RKKA E F I K G S H K C N V C S R T F F S E N G L R E H L Q T H R G P A K H Y M  
CPICGERFPSLLTLEHKVTHSKSLDTGTCRICKMPLQSEEEFIEHCQMHPDLRNSLTGF  
RCVVCMTVTSTLELKIHGTFHMQKLAGSSAASSPNGQLKLYKCALCLKEFRSKQDLV  
KLDVNGLPYGLCAGCMARSANGVQVGLAPPEPADRPCAGLRCECSVKFESAEDLESHMQ  
VDHRDLTPETSGPRKGTQTSPVPRKKTYYC I K C Q M T F E N E R E I Q I H V A N H M I E E G I N H E C  
KLCNQMF DSPAKLLCHLIEHSFEGMG GTFKCPVCFTV FVQANKLQQHIFAVHGQEDKIYD  
CSQCPQKFFFQTELQNHTMSQHAQ

>sp|Q6IV72|ZN425\_HUMAN Zinc finger protein 425 OS=Homo sapiens GN=ZNF425 PE=1 SV=1

MAEPASVTVTFDVALYFSEQEWEILEKWQKQMYKQEMKTN YETLDSLGYAFSKPDLITW  
MEQGRMLLISEQCLDKTRRTSPPTDEQLNMKNTGKLLCFDDEGTPRTKEEDCRLNGPQ  
KQDLCAALRGKERKILLAQATATFQSPSLRETEILNKKVSI TAYDPDKKDLRHKPRETPGR  
LEIPTGPRCYSYVCRKVFQVRRDLLKHKRSHSKSQLCRYPKYKNSSRGKSELRR TQRL  
CQKKRFQCSECEKSYFLKGS LVTHQVVHTGQRPYPCPECDKTFRYRANLKKHLCLHRGER  
PFCCGECGRAVQQCELTEHLRLHSGEKPFPQCPQCDRCFRLKRGMKVHLTQHSGKRPFHC  
PECGRSFSRKAALKTHQORTHSEEKPFSCGECGRKF IYKIKLDEHIRVHTGEKPFSCPECN  
KSFRLKRS LKAHGLQHIGKRPFCPECSRGF FWRNAMRAHQRLHSEQKPFPCAECGRFT  
RPSKLACHTRVHDRQKEFP CGECKTFSQQSRLTQHLKVHTEKPFSCAECGRSFRRAH  
LTEHTRLHSGEEPFCPECDKSFSWKASMKF HQRMHRDEKPFACGEDKTYTHQS QLTEH  
LRLHSGEKPYPQPECEKTFRLKGNL KSHLLQHSGQKPFSCVMCGKSFTQQYRLTEHIRVH  
SGEKPFCPECDKSYCIRGSLKVHLYKHSGERPFQCECGKGFLQKRSLKAHLCLHSGER  
PFSCDECGRSFTYVGALKTHIAVHAKEKPSSL

>sp|Q9BUY5|ZN426\_HUMAN Zinc finger protein 426 OS=Homo sapiens GN=ZNF426 PE=1 SV=1

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STQRSLSYDVMLENYKNLATVGGQIIKPSLISWLEQEE SRTVQGGVLQGWEMRLETQWSI  
LQQDFLRGQTSIGIQLEGKHNGRELCDCEQCGEVFSEHSLKTHVRTQSTGNTHDCNQYG  
KDFLTLC EKTSTGEKLSFNQSEKIFSLTPNIVYQRTSTQEKSFECSHC GKSFINESYLQ  
AHMRTHNGEKLYEWRNYGPGFIDSTSLSVL IETLNAKKPYKCECGKYRYPAYLSIHMR  
THTGEKPYECKEKGAFNYSNSFQIHGRTHTGEKP YVCKEKGKAF TQYSGLSMHVRSHSG  
DKPYECKEKGKSF LTSSRLIQHIRTHTGEKPFVCVECGKAF AVSSNLSGHLRTHTEEKAC  
ECKICGKVFGYPSCLNNHMRTHSAQKPYTCKEKGAFNYS THLKIHMRIHTGEKPYECKQ  
CGKAFSHSSSFQIHERTHTGEKPYECKEKGKAF TCSSSFRIEKTHTTEKPYKCQCGKA  
YSHPRSLRRHEQIH

>sp|Q8IYI8|ZN440\_HUMAN Zinc finger protein 440 OS=Homo sapiens GN=ZNF440 PE=1 SV=1

MDPVAFKDVAVNFTQEEWALLDISQRKLYREVMLETFRNL TSLGKRWKDQNI EYHQNPR  
RNFRLIEEKVNEIKDDSHCGETFTPV PDDRLNFQEKKASPEVKSCESFVCGEVLGNSS  
FNMNIRGDI GHKAYEYQ EYGPCKCQ QPKKAF RYRPSFR TQERDHTGEKPNACKVCGKT  
FISHSSVRRHVMHSGDGPYCKFCGKAFHCLRLYL IHERIHTGEKPCECKQCGKSFSYS

ATHRIHKRTHTEKPYEYQECGKAFHSPRSYRRHERIHMGEKAYQCKEKGKFTCPRYVR  
IHERTHSRKNLYECKQCGKALSSLTSFQTHVRLHSGERPYECKICGKDFCSVNSFQRHEK  
IHSGEKPYKCKQCGKAFPHSSSLRYHERHTHTEKPYECKQCGKAFRSASHLRVHGRTHTG  
EKPYECKEKGAFRYVNNLQSHERTQTHIRIHSGERRYKCKICGKGFYCPKSFQRHEKTH  
TGEKLYECKQRSVPSVVPVPFDIMKGLTLERSPINASNVGKPSELCQSFECMVGLTLKR  
NPM SVSNDGKPSDLPHTFEYVVGHTMERSPMHVRNVGNPSDLPRTFEFMKGHKHT

>sp|Q9Y2A4|ZN443\_HUMAN Zinc finger protein 443 OS=Homo sapiens GN=ZNF443 PE=2 SV=2

MASVALEDVAVNFTREEWALLGPCQKNLYKDVMQETIRNLDCVVMKWKDQNIEDQYRYPR  
KNLRCRMLERFVESKDGTQCGTSSQIQDSIVTKNTLPGVGPCSSMRGEKVMGHSSLNC  
YIRVGAGHKPHEYHECGEKPDTHKQRGKAFSYHNSFQTHERLHTGKKPYDCKECKGSFSS  
LGNLQRHMAVQRGDGPYKCKLCGKAFFWPSLLHMHERHTHTEKPYECKQCSKAFSFYSSY  
LRHERHTHTEKPYECKQCSKAFFFYSSYLHERHTHTEKPYKCKQCSKAFFDSSSLIHE  
RTHTEKPYTCKQCGKAFSVSGSLQRHETTHSAEKPYACQCGKAFHHLGSFQRHMRHT  
GNGPHKCKICGKGFDCPSSLQSHERTHTEKPYECKQCGKALSHRSSFRSHMIMHTGDGP  
HKCKVCGKAFVYPSVFQRHERHTHAEKPYKCKQCGKAYRISSSLRRHETHTHTEKPYKCK  
LGKACIDFCSFQNHKTHTHTEKPYECKECKGKAFSRFRYLSRHKRTHTEKPYECKTCRKA  
FGHYDNLKVHERIHSGEKPYECKECKGKAFSWLTCLRHERIHMREKSYECPQCGKAFTHS  
RFLQGHEKTHTEKPYECKECKGKAFASSLHRHKKTHWKKTHTHTEKPYECKECKGKAFA  
LSSLHRHKKTH

>sp|P59923|ZN445\_HUMAN Zinc finger protein 445 OS=Homo sapiens GN=ZNF445 PE=1 SV=1

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LRYHESSGPLETSLRELRCRWWLRPDVLSKAQILELLVLEQFLSILPGELRVVWQLHNP  
ESGEEAVALLEELQRDLGTSWRDPGAQSPDVHWMGTGALRSAQIWSLASPLRSSALG  
DHLEPPYEIEARDFLAGQSDTPAAQMPALFPREGCPGDQVTPTRSLTAQLQETMTFKDVE  
VTFSQDEWGLDSAQRNLYRDVMLENYRNMA SLVGPF TKPALISWLEAREPWGLNMQAAQ  
PKGNPVAAPTGD DLQSKTNKFI LNQEPL EEAETLAVSSGCPATSVSEGI GLRESFQQKSR  
QKDCQENPIQVRVKKEETNFSHRTGKDSEVSGSNSLDLKHVTYLRVSGRKESLKHGCGKH  
FRMSSHHDYKKGKGLRHMIGGFSLHQRIHSLGKGNKKDVCCKDFSLSSHQRGQSLHT  
VGVSFKCSDCGRFTSHSSHLAYHQLHTQEKAFKCRVCGKA FRWSSNCARHEKIHTGVKP  
YKCDLCEKA FRRLSAYRLHRETHAKKKFLELNQYRAALTYSSGFDHHLGDQS GEKLFDCS  
QCRKSFHCKSYVLEHQRIHTQEKP YKCTKCRKTFRWR SNFTRHMLHEEEKFYKQDECRE  
GFRQSPDCSQPGAPAVEKTF LCCQCGKTFTRKKTLDVHQRIHTGEKPYQSCDCGKDFAY  
RSAFIVHKKKHAMKRKPEGGPSFSQDTVFPVQSSHSKEEPYKCSQCGKA FRNHSFLLIH  
QRVHTGEKPYKRECGKA FRWSSNLYRHQRIHSLQKQYDCHESEKTPNVEPKILTGEKRF  
WCQECGKTFTRKRTLLDHKGIHSGEKRYKCNLCGKSYDRNYRLVNHQRIHSTERPFKQW  
CGKEFIGRHTLSSHQRKHTRAAQAERSPPARSSSQDTKLRLQKLKPS EEMPL EDCKEACS  
QSSRLTGLQDISIGKKCHKCSICGKTFNKSSQLISHKR FHTRERPFKCSKCGKTFRWSSN  
LARHMKNHIRD

>sp|Q6P9G9|ZN449\_HUMAN Zinc finger protein 449 OS=Homo sapiens GN=ZNF449 PE=1 SV=3

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MHDMLLEELAPVGTAHIPPTMHLESPALQVMGPAQEAPVAEAWIPQAGPPELNYGATGEC  
QNFLDPGYPLPKLDMNFSLENREEPWVKELQDSKEMKQLLD SKIGFEIGIENEEDTSKQK  
KMETMYPFIVTLEGNALQGP IILQKDYVQLENQWETPPEDLQTDLAKLVDQQNP TLGETPE

NSNLEEPLNPKPHKKKSPGEKPHRCPQCGKCFARKSQLTGHQRIHSGEEPHKCECGKRF  
LRSSDLYRHQRLHTGERPYECTVCKKRFTRRSHLIGHQRTHEEETYKCLECGKSFCHGS  
SLKRHLKTHTGEKPHRCHNCGKSFSRLTALTLHQRTHTEERPFKCNYCGKSFRQRPSLVI  
HLRIHTGEKPYKCTHCSKSFRQRAGLIMHQVTHFRGLI

>sp|Q8N9F8|ZNF454\_HUMAN Zinc finger protein 454 OS=Homo sapiens GN=ZNF454 PE=2 SV=2

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KCASLLEWQCGGQEISLQRVVLTHPNTPSQECDESGSTMSSSLHSDQSQGFQPSKNAFEC  
SECGKVFSSKSTLNKHQKIHNKNNANQKIHIKEKRYECRECGKAFHQSTHLIHHQRIHTG  
EKPYECKEKGAFSVSSSLTYHQIHTGEKPFECNLGKAFIRNIHLAHHRIHTGEKPF  
KCNICEKAFVCRAHLTKHQNIHSGEKPYKNECGKAFNQSTSFLQHQRHTGEKPFECNE  
CGKAFRVNSSLTEHQRIHTGEKPYKNECGKAFRDNSSFARHRKIHTGEKPYRCGLCEKA  
FRDQSALAQHQRHTGEKPYTCNICEKAFSDHSALTQHKRIHTREKPYCKICEKAFIRS  
THLTQHQRHTGEKPYKCNKCGKAFNQNTANLIQHQRHHIGEK

>sp|Q8TAF7|ZNF461\_HUMAN Zinc finger protein 461 OS=Homo sapiens GN=ZNF461 PE=2 SV=2

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GKEPVMVREETGRWCPGTWKTWGFHNNFLDNNEATDINADLASRDEPQKLSPKRDIYET  
ELSQQVMNEEFKSHSPERSIFSAIWEGNCHFQHQGQEEGYFRQLMINHENMPIFSQHTL  
LTQEFYDREKISECKKCRKIFS YHLFFSHHKRTHSKELSECKECTEIVNTPCLFKQQTIQ  
NGDKCNECKECWKAFVHCSQLKHLRIHNGEKRYECNECGKAFNYGSELTLHQRHTGEKPY  
YECKEKGKAFRQRSQTLTQHQRHTGEKPYECKQCGKAFIRGFQLTEHLRLHTGEKPYECK  
ECGKTRFRHSHLTIHQRIHTGEKPYECRECGKAFSYHSSFHHQKIHSKKPYECHECGK  
AFCDGLQLTLHQRHTGEKPYECKECGKTRFQCSSLKRHQRHTGEKPECMICGKAFRL  
HSHLIQHQRHTGEKPYECKEKGKAFSYHSSFHHQRIHSGKKPYQCGKAFNHRLQLNLH  
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>sp|Q7Z7K2|ZNF467\_HUMAN Zinc finger protein 467 OS=Homo sapiens GN=ZNF467 PE=2 SV=1

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PFPAPDLGHLAAAYKLEPGAPGALSGLALSGWGPMEKPYGCGECERRFRDQLTLRLHQR  
LHRGEGPCACPDGCRSFTQRAHMLLHQRSHRGERPFPCSECDKRFSSKKAHLTRHLRHTG  
ERPYPACGKRFQKIHLSGSHQKTHTGERPPFCTEKEKFRKKTHLIRHQRHTGERPY  
QCAQCARSFTHQHLVRHQRVHQTAGPARPSPDSSASPHSTAPSPTPSFPGPKPFACSDC  
GLSFGWKKNLATHQCLHRSEGRPFGCDECALGATVDAPAAKPLASAPGGPGCGPGSDPVV  
PQRAPSGERSFFCPDCGRGFSHGQHLARHPRVHTGERPFACTQCDRRFGSRPNLVAHSRA  
HSGARPFACAQCGRRFSRKSHLGRHQAVHTGSRPHACAVCARFSKTNLVRHQAIHTGS  
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>sp|Q8TCN5|ZNF507\_HUMAN Zinc finger protein 507 OS=Homo sapiens GN=ZNF507 PE=1 SV=2

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QKCLLIGKKRPRSSAATHSLETQELCEIPAKVIQSPAADTRRAEMSQTNFTPDTLAQNEG  
KAMSYQCSLCKFLSSFSVLKDHIKQHQQQNEVILMCSECHITSRSQEELEAHVVDNDHN  
DANIHTQSKAQCVSPSSSLCRKTTERNETIPDIPVSDNLQTHTVQTASVAEMGRRKWY  
AYEQYGYMYRCLFCSYTCGQQRMLKTHAWKHAGEVDCSYPIFENENEPLGLDSSAAAAPG  
GVDVAVIAIGESELSIHNGPSVQVQICSSEQLSSSSPLEQSAERGVHLSQSVTLDPNEEE  
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>sp|Q8N8E2|ZN513\_HUMAN Zinc finger protein 513 OS=Homo sapiens GN=ZNF513 PE=1 SV=2

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QLMGFERDSEGDSLGA RGPLPYGLSDDESGGGRALSAESEVEEPARGPGGEARERPGPAC  
QLCGGPTGEGPCCGAGGPGGGPLLPPRLLYSCLCTFVSHYSSHLKRHMQTHSGEKPFR  
GRCPYASAQLVNLTRHTRHTGKPYRCPHCPACSSGLNLRHQRTHAGPPTPPCPTCG  
FRCCTPRPARPPSPTEQEGAVPRRPEDALLLPDLSLHVPPGGASFLPDCGQLRGE GELC  
GTGSEPLPELLFPWTCRGGQEELEGESRLGAAMCGRCMRGEAGGGASGGPQGPSDKGF  
ACSLCPFATHYPNHLARHMKTHSGEKPFRCARCPYASAHLNLRHQRVHTGKPYKCPL  
CPYACGNLANLKRHGRIHSGDKPFRCSLCNYSCNQSMNLKRHMLRHTGKPFRCATCAYT  
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>sp|Q92618|ZN516_HUMAN Zinc finger protein 516 OS=Homo sapiens GN=ZNF516 PE=1 SV=1
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ASACNRLNGASQADGARVLNGASQADSGRVLRLSSKKGAEGSACAPGEAKAAVQCSFCK  
SQFERKKDLELHVHQAHKPPFKRCLSYATLREESLLSHIERDHITAQGPGSGEACVENGK  
PELSPGEFPCVEVCQAQFSQTWFLKAHMKKHRSFSDHGCHICGRRFKEPWFLKNHMAKHGP  
KTGSKNRPKSELDPDIATINNQQEEVIVAGLSLYEVCAGCNLFTNLDLSNAHNAIHRRV  
EASRTRAPAEEGAEGPSDTKQFFLQCLNLRPSAAGDSCPGTQAGRRVAELDPVNSYQAWQ  
LATRGKVAEPAEYLYKGAWDEALAGDVAFDKDRREYVLVSQEKREKREQDAPAAQGPPRRK  
ASGPGDPAPAGHLDRSAARPNRRAAATTGQGSSECFECGKIFRTYHQMVHLHSRVHRR  
RRERDSDGDRAARARCGSLSEGDSASQPSSPGSACAAADSPGSGLADEAAEDSGEEGAPE  
PAPGGQPRRCFSEEVSTELSSGDQSHKMGDNASERDTGESKAGIAASVSIENSSRET  
SRRQEQHRFSMDLKMPAFHPKQEVVPGDGVFSPSSTGAEGQTGHPAEKLSDLHNKEHSG  
GGKRALAPDLPLDL SARSTRDDPSNKETASSLQAALVVHPCPYCSHKTYYPEVLWMHKR  
IWHRVSCNSVAPPWIIQPNGYKSI RSNLVFLSRSGRTGPPPALGGKECQPLLLARFTRTQV  
PGGMPGSKSGSSPLGVVTKAASMPKNKESHSGGPCALWAPGPDGYRQTKPCHGQEPHGAA  
TQGPLAKPRQEASSKPVPPAPGGGGFSRSATPTPTVIARAGAQPSANSKPVEKFGVPPAGA  
GFAPTNNKHSAPDSLKAKFSAQPPGPPAKGEGGAPLPPPREPPSKAAQELRTLATCAAGS  
RGDAALQAQPGVAGAPPVLHSIKQEPVAEGHEKRLDILNIFKTYIPKDFATLYQGWGVSG  
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>sp|Q8TF50|ZN526 HUMAN Zinc finger protein 526 OS=Homo sapiens GN=ZNF526 PE=2 SV=2
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GELLAHQDAHLRESANQIQYQCWDCQELFPSPELWVAHRKAQHLSATVAEPPVPPPLPPP  
TPLPPSPPPSEVKMEPYECPECSLTCATPEEFLEHQGTHFDSLEKEERNGLNEEEEEDEE  
DEEDDEEMEDEEAMAEVGDGDESTAGWAQCGDCPQHQPASAGARRQHRRTAHSPAS  
ATHPFHCSQCQRSSFSSANRLQAHGRAHVGGTHECTTCSKVFKKAASLEQHLRLHRGEARY  
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TAPPAPAEPTPPPPPPAPPAQLPCPQCSKSFASASRLSRHRAVHGPPERRHRCGVCGKG  
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SNLQQHRLHLRPVAFARAPRLPITGLYNKSPYYCGTCGRWFRAMAGLRLHQRVHARART  
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>sp|Q3MIS6|ZN528\_HUMAN Zinc finger protein 528 OS=Homo sapiens GN=ZNF528 PE=2 SV=1

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ECDKVFNQIAHLVRHQIHTGEKPYSCNKGKVFSRHSYLAHQTVHTGEKPYKCEECGK  
AFSVRSSLIHQIHTGRKPYKCECDKVGRKCLTSHQRIHTRERPYGSCGKIFSQ  
KSDLIHRKTHHTDEKPYKCNKCGTAFREFSDLTAFHLIHSGEKPYECKECGKVFRYKSSL  
TSHHRIHTGEKPYKCNRCGKVFSSNLSVCHQIHTGEKPYKCNQCGKVFNQASYLTRHQ  
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>sp|Q6P9A1|ZN530\_HUMAN Zinc finger protein 530 OS=Homo sapiens GN=ZNF530 PE=2 SV=2

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GGASRDFWSSNLSLQKLQKLDNGEKLKVDGDQASFMNCRFHVSGKPFTFGEVGRDFSAT  
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CSECGKSFSQSSGFLRHRKAHGRTRTHECSECGKSFSRKTHLTQHQRVHTGERPYDCSEC  
GKSFRQSVLIHQHQRVHTGERPYECSECGKSFSHSTNLRYHRSHTSTRPYECSECGKS  
SHSTNLFRHWRVHTGVRPYECSECGKAFSCNIYLIHHQRFHTGERPYVCSECGKSFGQKS  
VLIHQHQRVHTGERPYECSECGKVSQSSGLFRHRAHTKTKPYECSECEKSFSCKTDLIR  
HQTVHTGERPYECVCGKSFIRKTHLIRHQTVHTNERPYECDECGKSYSQSSALLQHRRV  
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>sp|Q9HCE3|ZN532\_HUMAN Zinc finger protein 532 OS=Homo sapiens GN=ZNF532 PE=1 SV=2

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LKDSTFSQFSPISAAEFDDDEKIEVDPPDKEDMRSSFRSNVLTGSAPQQDYDKLKALG  
GENSSKTGLSTSGNVEKNKAVKRETEASSINLSVYEPFKVRKAEDKLKESDVKLENRVL  
DGKLSSEKNDTSLPSVAPSKTKSSSKLSSCIAAIAALSAKKAASDSCKEPVANSRESSPL  
PKEVNDSPRAADKSPESQNLIDGTTKPSLKQPDSPRSISSENSKGSPPSPAGSTPAIPK  
VRIKTIKTSSGEIKRTVTRVLPEVDLDSGKKPSEQTASVMASVTSLLSSPASAAYLSSPP  
RAPLQSAVVTVNAVSPAELTPKQVTIKPVATAFLPVSAVKTAGSQVINLKLANNITVKATV  
ISAASVQSASSAIKAANAIQQQTVVVPASSLANAKLPKTVHLANLNPQGAQATSEL  
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LSPPANAGITLPTRGYKLECGDSFALEKSLTQHYDRRSVRIEVTCHNCTKNLVFYNKCS  
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SGITGTVISAPSSPTITPAMPLDEDPskLCRHSLKCLECNEVFQDETSLATHFQQAADTS  
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GFRCVHCNVVYSDVAALKSHIQGSHCEVFYKCPICPMAFKSAPSTHSHAYTQHPGIKIGE  
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IRKVYACSHCPDSRRFTFKRLMLEKHVQLMHGIKDPDLKEMTDATNEEETEIKEDTKVPS  
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SSYQCRECGLCYTSHVSLSRHLFIVHKLKEPQPVSKQNGAGEDNQENKPSHEDESPDGA  
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>sp|Q08ER8|ZN543\_HUMAN Zinc finger protein 543 OS=Homo sapiens GN=ZNF543 PE=1 SV=3

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SKDQDGPSEMGEVHLKIGIGPQRGKLEKMSSERDGLGSDDGVCTKITQKQVSTEGDLYE  
CDSHGPVTDALIREEKNSYKCEECGVFKKNALLVQHERIHTQVKPYECTECGKTFKST  
HLLQHLIHTGEKPYKMECGKAFNRRSHLTRHQRIHSGEKPYKCECGKAFTHRSTFVL  
HHRSHTEKPFVCKEKGAFDRPGFIRHYIHTGEKPYECIECGKAFNRRSYLTWHQQI  
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KPYECSECGKAFTHCSTFVLHKRTHTEKPYECKEKGAFSDRADLIRHFSIHTGEKPYE  
CVECGKAFNRSSHLTRHQQIHTGEKPYECIQCGKAFCRSANLIRHSIHTGEKPYECSEC  
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>sp|Q8NEP9|ZN555\_HUMAN Zinc finger protein 555 OS=Homo sapiens GN=ZNF555 PE=1 SV=4

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EKPYECKQCGKTFNWPISLRKHMRTHTREKPYECKQCGKAFSLACFREHVRMHPEDKSY  
ECKLCGKAFYCHISLQKHMRRHTAEKLYCKQCGKAFSWPELLQQHVRTHTEKPYECKE  
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>sp|Q8N587|ZN561\_HUMAN Zinc finger protein 561 OS=Homo sapiens GN=ZNF561 PE=2 SV=2

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KNCGEVFREQFCLKTHMRVQNGGNTSEGNCYGKDTLSVHKEASTGQELSKFNPCGVFTL  
TPGLAVHLEVLNARQPYKCKEKGKGFYFASLDNHMGHTDEKLCEFYGRAVTASSHL  
KQCVAVHTGKSKKTKKCGKSFTNFSQLYAPVKTHKGEKSFECKEGRSFRNSSCLNDHI  
QIHTGIKPHKCTYCGKAFTSTSLIQHTRIHTGEKPYECVECGKTFITSSRRSKHLKTHSGEKP  
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>sp|Q6V9R5|ZN562\_HUMAN Zinc finger protein 562 OS=Homo sapiens GN=ZNF562 PE=2 SV=2  
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YSGWKLCEGCVFSEQFCLKTHMRAQNGGNTFEGNCYGKDSISVHKEASIGQELSKFNP  
CGKVFTLTPLAVHLEILNGRPYKCKEKGKGFYFASLDNHMGIHIGEKLCFQECERA  
ITTSSHLKQCVAVHTGKKSEKTKNCGKSFTNFSQLSAHAKTHKGEKSFECKEGRSFRNS  
SSFNVHIQIHTGIKPHKCTECGKAFTRSTHLTQHVRHTGTGIKPYECKECQAFTQYTGLA  
IHIRNHTGEKPYQCKEKGKAFNRSSLTQHRRHTGEKPYECVECGKTFITSSHRSKHLK  
THSGER

>sp|Q8N9K5|ZN565\_HUMAN Zinc finger protein 565 OS=Homo sapiens GN=ZNF565 PE=2 SV=2  
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GKAFSRASHLVQHQRHTGEKPYDCKDCGKAFGRTSELILHQLHTGVKPYECKEKGKTF  
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QLTVHQRHTGEKPYECKEKGKFIHSSEVTRHQRHSGEKPYECKEKGKAFRQHAQLTR  
HQRVHTGDRPYECKDCGKAFSRSSYLIHQHRIHTGDKPYECKEKGKAFIRVSQLTHHQRH  
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CPHCPKSFGRSKLAAHLWTHAPTRPYPCPCDKSFCYPSKLAHRHTHHATDARPYPCP  
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>sp|Q96N58|ZN578\_HUMAN Zinc finger protein 578 OS=Homo sapiens GN=ZNF578 PE=2 SV=2  
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ERNGHEASMPKIKELMGSTDRHDQRHAGNKPIKDQLGLSFHLHLPDLHIFQPEEKIANQV  
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NCSSFVRKHQI IHLGEKQYKFDICGVFNEKRYLARHRRCHTSEKPYKCNECGKSFSYKS  
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>sp|Q9UK33|ZN580\_HUMAN Zinc finger protein 580 OS=Homo sapiens GN=ZNF580 PE=1 SV=1  
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VPYTYTVQLEEEPRGPPQREAPPGEPPGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPF  
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>sp|Q9NXT0|ZN586\_HUMAN Zinc finger protein 586 OS=Homo sapiens GN=ZNF586 PE=2 SV=2  
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RSfaenSSlikhlrvhtgerpyecVECGKsfrSSSLQHQRVhtrerpyecsecgksfs  
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>sp|Q86UK7|ZN598\_HUMAN Zinc finger protein 598 OS=Homo sapiens GN=ZNF598 PE=1 SV=1  
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VGGEDYEEVDYRSRQGRVARAGTRGAQQSRRGSWRYKREEEDREVA AAVRASVAAQQQEE  
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RIIT

>sp|Q86T29|ZN605\_HUMAN Zinc finger protein 605 OS=Homo sapiens GN=ZNF605 PE=2 SV=1  
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>sp|Q8N9Z0|ZN610\_HUMAN Zinc finger protein 610 OS=Homo sapiens GN=ZNF610 PE=2 SV=2  
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>sp|Q8N883|ZN614\_HUMAN Zinc finger protein 614 OS=Homo sapiens GN=ZNF614 PE=1 SV=2

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HQRTHTGEKPYMCECGKGTVKSNIIVHQRTHTGEKSYICSECGKGTMRKTLVIHQRT  
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TPFVCTECGKSYSHKYGLITHQRIHTGEKPYECNECGKAFTTKSVLNVHQRTHTGERPYG  
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>sp|Q5T7W0|ZN618\_HUMAN Zinc finger protein 618 OS=Homo sapiens GN=ZNF618 PE=1 SV=1

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EPPEPFQKIGPKTGNYTCEFCGKQYKYTPYQEHVALHAPISTAPGWEPDDPDTGSECS  
HPEVSPSPRFVAAKTQTNQSGKKAPASVVRCATLLHRTTPATQTQTFRTPNSGSPASKAT  
AAESAFSRRVEGKAQNHFEETNSSSQNSSEPYTCGACGIQFQFYNNLLEHMQSHAADNEN  
NIASNQSRSPPAVVEEKWKPAQRNSANNTTSGLTPNSMIPEKERQNIARLLRVMCAD  
LGALSVVSGKEFLKLAQTLVDSGARYGAFSVTEILGNFNTLALKHLPRMYNQVKVKTCA  
LGSNACLGIGVTCHSQSVGPDSCYILTAYQAEGNHIKSYVLGVKGADIRDSGDLVHHWVQ  
NVLSEFVMSEIRTVYVTDRCVSTSAFSKAGMCLRCSACALNSVVQSVLSKRTLQARSMHE  
VIELNVCEDLAGSTGLAKETFGSLEETSPPPCWNSVTDLSLLVHERYEQICEFYRAKK  
MNLIQSLNKHLLSNLAAILTPVKQAVIELSNESQPTLQLVLPYVRLEKLTAKANDAGT  
VSKLCHLFLEALKENFKVHPAHKVAMILDPPQKLRPVPPYQHEEIIIGKVCELINEVKESW  
AEEADFEPAAKKPRSAAVENPAAQEDRLGKNEVYDYLQEPLFQATPDLFQYWSCVTQKH  
TKLAKLAFWLLAVPAVGARSGCVNMCEQALLIKRRRLSPEDMNKLMFLKSNML

>sp|Q6ZSS3|ZN621\_HUMAN Zinc finger protein 621 OS=Homo sapiens GN=ZNF621 PE=2 SV=1

MLQTTWPQESVTFEDAVYFTQNWASLDPAQRALYGEVMLENYANVASLVAFPPFKPAL  
ISHLERGEAPWGPDPWDEILRGISQGGESWIKNEGLVIKQEASEETELHRMPVGGLLRN  
VSQHFDKFRKALKQTFNLNPNLILRGGMKFYECKEKGKIFRYNSKLIRHQMSHTGEKPFK  
CKECKGAFKSSYDCIVHEKNHIGEPYCKECKGLSSNTALTQHQRHTGEKPYECKECK  
GKAFRRSAAYLQHQLHTGEKLYCKECKWKAFCGRSLFIVHQRIHTGEKPYQCKECKAF  
TQKIASIQHQRVHTGEKPYECKVCGKAFKWFYQSVQHQKLHPVEKKPVKVLGPSLVSPQC  
SSPAIPPVLLQGSCSASAVAVPSLTFPHAVLIPTSGNFFMLLPTSGIPSSSAQIVRVFQG  
LTPTVKPSPVILTPSSHSS

>sp|Q68DY1|ZN626\_HUMAN Zinc finger protein 626 OS=Homo sapiens GN=ZNF626 PE=2 SV=2

MGPLQFRDVAIEFSLEEWHCLDTAQKNLYRNVMLENYSNLVFLGITVSKPDLITCLEQGR  
KPLTMKRNEMIAKPSVMCSHFAQDLWPEQSMKDSFQKVVLRRYEKCEHDNLQLKKGCSV  
DECKVHKEGYNELNQCLTTTPRKICQCDKYVKVLHQFPNSNGQKRGHTGKKPFKYIECGK  
AFKQFSTLTTHKKIHTGGKPYKCEECGKAFNHSCSLTRHKKIHTGEKPYKCEECGKAFKH  
SSTLTTHKRNTHTGEKPYKCDKCGKAFMSSSTLSKHEIIHTEKKPYKCEECGKAFNRSSTL  
TTHKKIHTGEKPYKCEECGKAFKYSYTLTTHKRIHTEDKPYKCEECGKAFKYSSTLTTHK  
RIHTGEKPYKCEECGKAFKRSSDLTTHKKIHTGEKPYKCEECGKAFKYSSTLTTHKKIHT

GERPYKCEECGAFNQSSILTTHRRITHTGEKFYKCEECGKAFKCSSNLTHKKIHTGERP  
YKCEECGKAFNQSSILTTHRIILERNSTNVKNVAKPSSGPHLLHIR

>sp|O15015|ZN646\_HUMAN Zinc finger protein 646 OS=Homo sapiens GN=ZNF646 PE=1 SV=1

MEDTPPSLSCSDCQRHFPSPLELSRHRELLHPSPNQDSEEADSIIPRYRCQQCGRGYRHP  
GSLVNHRRTHETGLFPCTTCGKDFSNPMALKSHMRTHAPEGRRRRHRPPRKEATPHLQGE  
TVSTDSWGQRLGSSEGWENQTKHTEETPDCEVDPDRAASGTWEDLPTRQREGLASHPGP  
EDGADGWGPSTNSARAPPLPIPASSLLSNLEQYLAESVVNFTGGQEPTQSPPAEEERRYK  
CSQCGKTYKHAGSLTNHRQSHTLGIYPCAICFKEFSNLMALKNHSRLHAQYRPHYCHPCP  
RVFRLPRELLEHQQSHEGERQEPRWEEKGMPTTNGHTDESSQDQLPSAQLNGSAELSTS  
GELEDSGLEEYRPFRCGDCGRTYRHAGSLINHRKSHQTVYPCSLCSKQLFNAAALKNHV  
RAHHRPRQGVGENGQPSVPPAPLLLAETTHKEEDPTTLDHRPYKCECGRAYRHRGSL  
VNHRHSHRTGEYQCSLCPRKYPNLMALRNHVRVHCKAARRSADIGAEGAPSHLKVELPPD  
PVEAEAAPHTDQDHVCKHEEEATDITPAADKTAAHICISICGLLFEDAESLERHGLTHGAG  
EKENSRTETTMSPPRAFACRDCGKSYRHSGSLINHRQTHQTGDFSCGACAKHFHTMAAMK  
NHLRRHSRRRSRRHRKRAGGASGGREAKLLAAESWTRELEDNEGLESPQDPSGESPHGAE  
GNLESDGDCLQAESEGDCKGLERDETHFQGDKESGGTGEGLERKDASLLDNLDIPGEEGG  
GTHFCDSLTVGDEDQKPATGQPNSSSHSANAVTGWQAGAAHTCSDCGHSFPHATGLLSHR  
PCHPPGIYQCSLCPKEFDSLALRSHFQNHPRGEATSAQPFLCCLCGMIFPGRAGYRLHR  
RQAHSSSGMTEGSEEEGEEGVAAEAPARSPPLQLSEAELLNQLQREVEALDSAGYGHIC  
GCCGQTYDDLGSLEHHQSQSSGTADKAPSPLGVAGDAMEMVDSVLEDIVNSVSGEGG  
DAKSQEGAGTPLGDSLICIQGGESLLEAQPRPFRCNQCGKTYRHGGSLVNHRKIHQTGDFL  
CPVCSRCYPNLAAYRNHLRNHPRCKGSEPQVGPIPEAAGSSELQVGPIPEGGSNKPQHMA  
EEGPGQAEVEKLQEELKVEPLEEVARVKEEWEETTVKGEEIEPRLETAEKGCQTEASSE  
RPFSCVCGRSYKHAGSLINHRQSHQTGHFGCQACSKGFSNLSLKNHRRIHADPRRFRC  
SECGKAFRLRKQLASHQRVHMERRGGGTRKATREDRPFRCGQCGRTYRHAGSLLNHRRS  
HETGQYSCPTCPKTYSNRMALKDQHRLHSENRRRRRAGRSRRTAVRCALCGRSFPGRSLE  
RHLREHEETEREPANGQGGLDGTAASEANLTGSQGLETLQGAEPVPHLEDGVPRPGRS  
QSPIRAASSEAPEPLSWGAGKAGGWPVGGLGNHSGGWVPQLTRSEEPEDSVHRSPCHA  
GDCQLNGPTLSHMSWDNRDNSSQLQPGSHSSCSQCGKTYCQSGSLLNHNTNKTDRHYCL  
LCSKEFLNPVATKSHSHNHIDAQTFACPDGKAFESHQELASHLQAHARGHSQVPAQMEE  
ARDPKAGTGEDQVVLPGQGAQEAPESETPRPGESVERARGGQAVTSMAAEDKERPFRT  
QCGRSYRHAGSLLNHQKAHTTGLYPCSLCPKLLPNLLSLKNHSRTHTDPKRHCCSICGKA  
FRTAARLEGHGRVHAPREGPFTCPHCPRHFRRRISFVQHQQHQEEWTVAGSGRGHEGSQ  
EEVGTQWRGKSSPKVGGGARSERREPRGF

>sp|Q6ZS27|ZN662\_HUMAN Zinc finger protein 662 OS=Homo sapiens GN=ZNF662 PE=1 SV=1

MLENYGAVASLAFFPKPALISQLERGETPWCSVPRGALDGEAPRGISSGYPFLKPAGI  
SHPEQVEEPLNLKLQEGPSLICPEGVLKRKKEDFILKEEIEEAQDLMVLSSGPQWCGS  
QELWFGKTCEEKSRLGRWPGYLNGRMESSTNDIIEVIVKDEMISVEESSGNTDVNNLLG  
IHHKILNEQIFYICEECGKCFDQNEFDQHQKTHNGEKVYGCKEKGKAFSFRSHCIAHQR  
IHSGVKPYECQECAKAFVWKSNIIRHQRIHTGEKPFECKECGKGFNQNTSLTQHQRHTG  
EKPYTCKEKGKSFTRNPALLRHQRMHTGEKPYECKDCGKGMWNSDLSQHQRVHTGDKPH  
ECTDCGKSFFCKAHLIRHQRIHTGERPYKCNDCGKAFSQNSVLIKHQRHRHARDKPYNCQI  
SHLLEH

>sp|Q8N7Q3|ZN676\_HUMAN Zinc finger protein 676 OS=Homo sapiens GN=ZNF676 PE=2 SV=2

MLENYRNLVFLGIAAFKPDLIIFLEQGKEPWNMKRHEMVEEPPVICSHFSQEFWPEQIE  
DSFQKMILRRYDKCGHENLHLKISCTNVDECNVHKEGYNKLNQSLTTTQSKVFQCGKYAN  
VFHKCSNSNRHKIRHTGEKGLCKKEYVRSFCMLSHLSQHERIYTRENSYKCEENGKAFNW  
SSTLTYYKSIHTGEKPYKCEECGKAFSKFSILTKHKVIHTGEKPYKCEECGKAFNRSSIL  
TKHKIIHTGEKPYKCEECGKGFSSVSTLNTHKAIHAEKPYKCEECGKASNSSSKLMEHK  
RIHTGEKPYKCEECGKAFSWSSSLTEHKRIHAGEKPYKCEECGKAFNRSSILTKHKIIHT  
GEKPYKCEGCGKAFSKVSTLNTHKAIHAEKPYKCEECGKASNSSSKLMEHKRIHTGEKP  
YKCEECGKAFSWSSSLTEHKRIHAGEKPYKCEECGKAFTWSSSFTKHKRIHAAEKPYKCE  
ECGKGFSTFSILTKHKIIHTGEKRYKCEECGKAFSWSSILTEHKIIHTGEKPYKCEECGK  
AFSRSSSLTRHKRIHTGEKPYKCEECGKAFKSSSTVSYHKKIHTGENP

>sp|POC7X2|Zn688\_HUMAN Zinc finger protein 688 OS=Homo sapiens GN=ZNF688 PE=2 SV=1  
MAPPPAPLLAPRPGETRPGCRKPGTVSFADVAVYFSPPEWGCLRPAQRALYRDVMQETYG  
HLGALGFPGPKPALISWMEQESEAWSAAQDPEKGERLGGARRGDVPRKKEEPEEVPRA  
KGPRKAPVKESPEVLVERNPDPAISVAPARAQPPKNAAWDPTTGAQPPAPIPSMDAQAGQ  
RRHVCTDCGRRTYPSLLVSHRRMHSGERPFPCECGMRFKRKFVEAHQWIHRSCSGGR  
RGRRPGIRAVPRAPVRGDRDPPVLFRRHYPDIFEECG

>sp|Q32M78|Zn699\_HUMAN Zinc finger protein 699 OS=Homo sapiens GN=ZNF699 PE=1 SV=1  
MEEERKTAELQKNRIQDSVVFEDVAVDFTQEEWALLDLAQRNLYRDVMLENFQNLASLGY  
PLHTPHLISQWEQEEDLQTVKRELIQGIFMGEHREGFETQLKTNESVASQDICGEKISNE  
QKIVRFKRNDSWFSSLHENQESCGIDYQNKSSHERHLRNHNVENIYECYEENQDGGTFSQV  
PNLDSLKRNTEVKSCECHECGKAFVDHSSLKSHIRSHTGSKPYQCKEKGKAFHFLACFKK  
HMKTPTEEKPYECKECTKAFSCSSFFRAHMKIHIIGKTNYECKEKGKGFSCSSSLTEHKRI  
HSGDKPYECKEKGKAFSCSSSLSKHKRIHSGDKPYECKEKGKAFSSSSHLIIHIRIHTGE  
KPYECKEKGKAFSESSKLTVHGRTHTEKPYKCKEKGKAYNCPSSLSIHRKHTGEKPYE  
CLECGKAFYLPTSLNTHVKNSREKPYECKEKGKAFSCPSFRAHVRDHTGKIYECKEKG  
GKTFSRSSSLTEHLRTHSGEKPYECKEKGKAFISSSHLTVHIRTHTGEKPYECKKCGKAF  
IYPSALRIHMRTHTEKPYECKEKGKAFRHSSYLTVHARMHTGEKPFECLECGKAFSCPS  
SFRRHVRSHTEKPYECKEKGKAFVCPAYFRRHVKTHTRENT

>sp|Q8N859|Zn713\_HUMAN Zinc finger protein 713 OS=Homo sapiens GN=ZNF713 PE=2 SV=1  
MEEEEENDGSQMVRSQESLTFQDVAVDFTREEWDQLYPAQKNLYRDVMLENYRNLVALGY  
QLCKPEVIAQLELEEWEVIERDSSLDTHTPDGENRPEIKKSTTSQNISDENQTHEMIMERL  
AGDSFWYSILGGLWDFDYHPEFNQENHKRYLGQVTLTHKKITQERSLECNKFAENCNLNS  
NLMQQRIPSIKIPLNSDTQGNSIKHNSDLIYYQGNVRETPYEYSECGKIFNQHILLTDH  
IHTAEKPSECGKAFSHTSSLSQPQMLLTGEKPYKCEGKRFQSRIHLIQHQRIHTGEKP  
FICNGCGKAFRQHSSFTQHLRIHTGEKPYKCNQCGKAFSRITSLTEHRLHTGEKPYECG  
FCGKAFSQRTHLNQHERHTHTGEKPYKCNCEGKAFSQSAHLNQHRKIHTREKLCEYKCEQT  
VRHSPFSST

>sp|Q9BY31|Zn717\_HUMAN Zinc finger protein 717 OS=Homo sapiens GN=ZNF717 PE=2 SV=2  
MLETYNSLVSLQELVSFEEVAVHFTWEEWQDLDDAQRTRYRDVMLETYSSSLVSLGHCITK  
PEMIFKLEQGAEPWIVEETPNLRLSAVQIIDDLIERSHESHRFFWQIVITNSNTSTQER  
VELGKTFNLNSNHVLNLIINNGNSSGMKPGQFNDQNMLFPIKPGETQSGEKPHVCDITR  
RSHRHHHLTQHKKIQTLLQTFQCNEQGKTFNTEAMFFIHKRVHIVQTFGKYNEYEKACN  
NSAVIVQVITQVGQPTCCRKSDFTKHQQHTHTGEKPYECVECEKPSISKSDLMLQCKMPTE  
EKPYACNWCEKLFYSKSSLIHQRIHTGEKPYGCNECGKTFRRKSFLTHERHTHTGDKPY

KCIECGKTFHCKSLTLHHRTHSGEKPYQCSECGKTFSSQKSYLTIHHRHTGKPYACDH  
CEEAFSHKSRLTVHQRHTGKPYECNECGKPFINKSNLRLHQRHTGKPYECNECGKT  
FHRKSFLTIHQWHTGKPYECNECGKTFRCKSFLTVHQRTHAGEKPYACNECGKTYSHK  
SYLTVHHRHTGKPYECNECGKSFHCKSFLTIHQRTHAGKPYECNECEKTFINKLNLG  
IHKITHGERPYECNECGKTFRQKSNLSTHQGTHTGKPYVCGKTFHRKSFLTIHQRTHT  
GKNRMDVMNVEKLFVRNHTLLYIRELTPGKSPMNMVNENPFIRRQIFRSIKVFTGRNP  
MNVANVEKPCQKSVLTVHHRHTGKPYECNECGKTFCHKSNLSTHQGTHSGEKPYECDE  
CRKTFYDKTVLTIHQRTHTGKPFECCKRKTFSQKSKLFVHHRHTGKPFRCNECRKT  
FSQKSGLSIHQRHTGKPYECKECGKTFCKSHLSRHQQTHIGKSDVAEAGYVFPQNH  
SFFP

>sp|POCB33|ZN735\_HUMAN Putative zinc finger protein 735 OS=Homo sapiens GN=ZNF735 PE=5  
SV=1

MAKRPGPPGSRMGLLTFRDIAIEFSLAEWQCLDHAQQNLYRDVMLENYRNLFSLGMTVS  
KPDLIACLEQNKPEQNIKRNEMAAKHPVTCSHFNQDLQPEQSIKDSLQKVIPTRYGKCGH  
ENLQLKKCKRVDECEVHKGGYNDLNQCLSNQNKIFQTHKCVKVFSSKFSNSNRHNARYT  
GKKHLKCKKYGKSFCEMFSHLNQHQIIHTKEKSYKCEECGKSFNHSSSGTTHKRILTGEKP  
YRCEECGKAFRWPSNLTRHKRIHTGKPYACEECGQAFRRSSTLTNHKRIHTGERPYKCE  
ECGKAFSVSSALIYHKRIHTGKPYTCEECGKAFNCSSTLKTHKIIHTGKPYTCEECGR  
TFNCSSTVKAHKRIHTGKPYKCECDKAFKWHSSLAHKIIHTGKPYKCK

>sp|Q8NE65|ZN738\_HUMAN Protein ZNF738 OS=Homo sapiens GN=ZNF738 PE=2 SV=1

MDDLRYGVYPVKGASGYPGAERNLLEYSYFEKGPLTFRDVVIEFSQEEWQCLDTAQDLY  
RKVMLENFRNLVFLGIDVSKPDLITCLEQKDPWNMKRHSMTATPPESGVLKFPTIIILL  
SRCFFQSVNICFIYLEP

>sp|Q6NUN9|ZN746\_HUMAN Zinc finger protein 746 OS=Homo sapiens GN=ZNF746 PE=1 SV=1

MAEAVAAPISPWMAATIQAMERKIESQAARLLSLEGRTGMAEKKLADCEKTAVEFGNQL  
EGKWAIVGLTLQEYGLLQRRLENVENLLRNRNFWILRLPPGSKGESPKWGLDQWQEL  
YKHVMRGNJETLVSLDYAISKPEVLSQIEQGKEPCNWRPGPKIPDVPVDPSPGSGPPVP  
APDLLMQIKQEGELQLQEQQALGVEAWAAGQPDIGEEPWGLSQLDSGAGDISTDATSGVH  
SNFSTTIPPTSWQTDLPHPHSSACSDGTLKLNTAASTEDVKIVIKTEVQEEEVVATPVH  
PTDLEAHGTLFGPGQATRFPSPAQEGAWESQGSSFPSQDPVGLGLREPARPERDMGELSP  
AVAQEETPPGDWLFGGVRWGNFRCKPPVGLNPRTGPEGLPYSSPDNGEAILDPSQAPRP  
FNEPCKYPGRTKGFGHKPGLKKHPAAPPGRPFTCATCGKSFQLQVSLSAHQRSAGAPDG  
SGPGTGGGGSGGGGGGGSGGSARDGSALRCGECGRCFTRPAHLIRHMLHTGERPFPC  
TECEKRFTERSKLIDHYRHTGVRPFTCTVCGKSFIRKDLRKHQRNHAAGAKTPARGQP  
LPTPPAPPDPFKSPASKGLASTDLVTDWTCGLSVLGPTDGGDM

>sp|Q96H86|ZN764\_HUMAN Zinc finger protein 764 OS=Homo sapiens GN=ZNF764 PE=1 SV=2

MAPPLAPLPPRPNGAGPEWREPGAVSFADVAVYFCREEWGCLRPAQRALYRDVMRETYG  
HLSALGIGGNKPALISWVEEEAELWGPAADPEVAKCQTQTDPADSRNKKKERQREGTGA  
LEKPDPAAGSPGLKSPQAPSAGPPYGWEQLSKAPHRGRPSLCAHPPVPRADQRHGCYVC  
GKSFAWRSTLVEHVYSHTGKPFHCTDCGKGFGHASSLSKHRAIHRGERPHRCLECGRAF  
TQRSALTSHLRVHTGKPYGCADCGRRFSSALYQHRRVHSGETPFPCPDGGRFAFAPS  
DLRRHVRHTGKPYPCDCGRCFRQSSEMAHRRTHSGEKPYPCPQCGRRFGQKSAVAK  
HQWVHRPGAGGHRGRVAGRLSVTLTPGHGDLDPVGFQLYPEIFQECG

>sp|Q9BSR8|YIPF4\_HUMAN Protein YIPF4 OS=Homo sapiens GN=YIPF4 PE=1 SV=1



MQPPGPPPAYAPTNGDFTFVSSADAEDLSGSIASPDVKLNLGGDFIKESTATTFLRQRGY  
GWLLEVEDDDPEDNKPILLELDIDLKDIYYKIRCVLMPMPSLGFNRQVVRDNPDFWGPLA  
VVLFFSMISLYGQFRVSWIITIWFISLTIFLLARVLGGEVAYGQVLGVIGYSLLPLIV  
IAPVLLVVGSEFVVSTLIKLFVFWAAYSAASLLVGEEFKTKKPLLIYPIFLLYIYFLSL  
YTG

>sp|Q8NDZ9|YJ017\_HUMAN Putative uncharacterized protein LOC439951 OS=Homo sapiens PE=5  
SV=1

MAASGSPGPTSPGPGRTPAEPAAAGPSRRELNRNGSYLSTVPTARLWAADRAGGPGRPSR  
SGAARRGGGGYRSALRPVLSLPRGSRRSRAREPGSSPARHLLPPLWKRP PPPRAARPGP  
RLRASGPARTGRRQPSPQRPQPPYWRGPFPAARALRSRTPAVRAPARLGDARPGQLQVP  
GAPRREAGAGSPGPKAGLRGTQTSDIGVSSRQVRG

>sp|Q6ZTI0|YK032\_HUMAN Putative uncharacterized protein FLJ44636 OS=Homo sapiens PE=5  
SV=1

MPLPGTPGPVTTSPQTPTPRPLTTDWRLSGKSGGSARAVSKLRSSSSGNSLLRIRDLG  
VRKSQEEAAPPSPRQSRHAQTNPYWADTNTRPGAHPPEHGGVAALPAQVVGQCHQEA  
TED

>sp|Q8IYB0|YK038\_HUMAN Putative uncharacterized protein MGC39545 OS=Homo sapiens PE=5  
SV=2

MPSGEERRDRQKRRAGCDTSSTPSNTAPRIPEPGAHPAARPATAQPPRSLLPPVCSKT  
IALPASAAAASGSDTAGMRGLGKAPHSGEGHERGRGNSKMKACNNYQYGYLAKPDTSFWI  
KCRRLWADAGRHTQRPFWTFRVSHSPLLEAEAGRPSDVSQLQLGSDLKPKMRPAGELF  
SPKDAGWELDPAEKSE

>sp|Q92536|YLAT2\_HUMAN Y+L amino acid transporter 2 OS=Homo sapiens GN=SLC7A6 PE=1 SV=3

MEAREPGRPTPTYHLPNTSQSQVEEDVSSPPQRSSETMLKKEISLLNGVSLVGNMIG  
SGIFVSPKGLVHTASYGMSLIVWAIGGLFSVVGALCYAELGTTITKSGASYAYILEAFG  
GFIAFIRLWVSLVVEPTGQAIITFANYIIQPSFSPCDPPYLACRLAAACICLLTFV  
NCAYVKGWTRVQDTFTYAKVVALIAIIVMGLVKLCQGHSEHFQDAFEGSSWDMGNLSLAL  
YSALFSYSGWDTLNFVTEEIKNPERNLPLAIGISMPIVTLIYILTNAVYYTVLNISDVLS  
SDAVAVTFADQTFGMFSWTIPIAVALSCFGLNASIFASSRLFFVGSREGHLPDLLSMIH  
IERFTPIPALFNCTMALIYLIVEDVFQLINYFSFSYWFVGLSVVGQLYLRWKEPKRPR  
PLKLSVFFPIVFCICSVFLVIVPLFTDTINSLIGIGIALSGVPFYFMGVYLPESRRPLFI  
RNVLAATRGTTQLCFCVLTELDVAEEKKDERKTD

>sp|Q9UFV3|Y0007\_HUMAN Putative uncharacterized protein DKFZp434L187 OS=Homo sapiens PE=5  
SV=2

MAETYRRSRQHEQLPGQRHMDLLTGYSKLIQSRLKLLHLGSPVVGKTTFFSCWCHPLF  
HGSKTPNVWYKFSETALSILNSCQASQLGVRKMPGDMSSSPRVREFSALVAIKEKIHIL  
PTNAKVGSKFGS

>sp|Q6ZSR6|YP007\_HUMAN Putative uncharacterized protein FLJ45256 OS=Homo sapiens PE=2  
SV=3

MLVETGFCRVGQAGLELLSSSDKAAGLDLPKCWDYRHEPPRLAPLLIFNPHPSTVLSCNC  
EYNSFFEFCDSLQQIVIPERVLGTPRHIFPLPLFSHFLWSKLKEAPACLLQGSSEHTEI  
ICDLISSKQFIKKFLSNKPSALHGGDADENDFLQLITRLQKLLFKSLSMYVCVHIHQHT  
HACPQLSCLHQNQDEELFYCQN

>sp|Q6ZVL8|YP033\_HUMAN Putative uncharacterized protein FLJ42384 OS=Homo sapiens PE=2 SV=1

MWPFRLRCPIYFKTRLLYSSSQDGFLLSSSTNYNHRTYPGLVNWLFVLTEPELTGELGDD  
DRKGMHTGGIIRWLGRPSSQLKPIFHAEEERRVPPPPERLVGRASPREQATVFKRICAPLH  
AEVFCRAGLCACHPDCTAAG

>sp|POC880|YT014\_HUMAN Putative uncharacterized protein FLJ40606 OS=Homo sapiens PE=5 SV=1

MAAATETGQAAVPSRKRRRGRRPPASDPQTLARLAAGPWLPGTLTCPERTGGDAATRSAR  
PPVLP PPPRPPQRRCRHLVSRAGTPRCACAGTASEGPRRGRAAILSVAGSAGSSHPACFR  
PPLLPIRPCCSLWR

>sp|Q9H6S0|YTHDC2\_HUMAN Probable ATP-dependent RNA helicase YTHDC2 OS=Homo sapiens GN=YTHDC2 PE=1 SV=2

MSRPSSVSPRQPAPGGGGGGSPCGPGGGGRAKGLKDIRIDEEVKIAVNIALERFRYGD  
QREMEFPSSLTSTERAFIGHLSQSLGLVSKSKGKANRYLTVKKKGSETAHAMMTCNLT  
HNTKHAVRSLIQRFVPTNKERTELLPKTERGNVFAVEAENREMSKTSGRLLNNGIPQIPVK  
RGESEFDSFRQSLPVFEKQEEIVKIIKENKVVLIVGETGSGKTTQIPQFLDDCFKNGIP  
CRIFCTQPRRLAAIAVAERVAERERRIGQTIGYQIRLESRVSPKTLTFTCTNGVLLRTL  
MAGDSTLSTVTHIVDEVHERDRFSDFLLTKLRDLLQKHPTLKLILSSAALDVNLFIRYF  
GSCPVIYIQGRPFEVKEMFLEDILRTTGYTNKEMLYKKEKQKEEKQQTTLTEWYSAQEN  
SFKPESQRQRTVLNVTDEYDLLDDGGDAVFSQLTEKDVNCLPWLKEMDACLSDIWLHK  
DIDAFQAVFHLILTENVSDYRHSETSATALMVAAGRGFASQVEQLISMGANVHASKASNG  
WMALDWAKHFGQTEIVDLLESYSATLEFGNLDESSLVQTNGSDLSAEDRELLKAYHHSFD  
DEKVDLDLIMHLLYNICHSCDAGAVLIFLPGYDEIVGLRDRILFDDKRFADSTHRYQVFM  
LHSNMQTSDDQKKVLKNPPAGVRKIIILSTNIAETSITVNDVVFVIDSGKVKEKSFDAFNFV  
TMLKMVWISKASAIQRKGRAGRCRPGICFRLFSRLRFQNMLEFQTPPELLRMPLQELCLHT  
KLLAPVNCPIADFLMKAPEPPALIVRNAVQMLKTIDAMDTWEDLTELGHYHLADLPVEPH  
LGKMLCAVVLKCLDPILTIACLTAYRDPFVLPTQASQKRAAMLCKRFTAGAFSDHMAL  
LRAFQAWQKARSQGERAFCEKNFLSQATMEIIIGMRTQLLGQLRASGFVRARGGGDIRD  
VNTNSENWAVVKAALVAGMYPNLVHVDRENVLVTGPKEKKVRFHPASVLSQPQYKKIPPA  
NGQAAAIKALPTDWLIYDEMTRAHRIANIRCCSAVTPVTILVFCGPARLASNALQEPSSF  
RVDGIPNDSSDSEMEDKTTANLAALKLDEWLHFTLEPEAASLLLQLRQKWHSLFLRRMRA  
PSKPWSQVDEATIRAIIVLSTEEQSAGLQQPSGIGQRPRPMSSEELPLASSWRSNNSRK  
SSADTEFSDECTTAERVLMKSPSPALHPPQKYKDRGILHPKRGTEDRSDQSSLKSTDSSS  
YSPCASPSPPSSGKSKSPSPRPMPVRYFIMKSSNLRNLEISQQKGIWSTTPSNERKL  
NRAFWESSIVYLVFSVQSGGHFQGFSRMSSEIGREKSQDWGSAGLGGVFKVEWIRKESLP  
FQFAHLLNPWNDNKKVQISRQGQELEPLVGEQLQLWERLPLGEKNTTD

>sp|Q9BYJ9|YTHD1\_HUMAN YTH domain-containing family protein 1 OS=Homo sapiens GN=YTHDF1 PE=1 SV=1

MSATSVDTQRTKGQDNKVQNGSLHQKDTVHDNDFEPYLTGQSNQSNYSYPSMSDPYLSSYY  
PPSIGFPYSLNEAPWSTAGDPPIPYLTTYGQLSNGDHHFMHDAVFGQPGGLGNNIYQHRF  
NFFPENPAFSAWGTSGSQGQQTQSSAYGSSYTYPPSSLGGTVVDGQPGFHSDTLSKAPGM  
NSLEQGMVGLKIGDVSSSAVKTVGSVVSVALTGVLSGNGGTNVNMPVSKPTSWAAIASK  
PAKPQPKMKTSGPVMGGGLPPPIKHNMIDGTWDNKGVPKAPVPQQAPSPQAAPQPQQ  
VAQPLPAQPPALAQPYQSPQPPQTRWVAPRNRNAAFGQSGGAGSDSNSPGNVQPN SAP

SVESHVPVLEKLKAAHSYNPKFEFENLKSGRVFIIKSYSEDDIHRSIKYSIWCSTEHGNGKR  
LDSAFRCMSSKGPVYLLFSVNGSGHFCGVAEMKSPVDYGTSAQVWSQDKWKGFQWIF  
VKDVPNNQLRHIRLENNDNKPVNTSRDTQEVPLEKAKQVLKIISSYKHTTSIFDDFAHYE  
KRQEEEEVVRKERQSRNKQ

>sp|Q9Y5A9|YTHD2\_HUMAN YTH domain-containing family protein 2 OS=Homo sapiens GN=YTHDF2  
PE=1 SV=2

MSASSLLEQRPKGQGNKVQNGSVHQDGLNDDDFEPYLSQARPNNAYTAMSDSYLPSYY  
SPSIGFSYSLGEAAWSTGGDTAMPYLTSYGQLSNGEPHFLPDAMFGQPGALGSTPFLGQH  
GFNFFPSGIDFSAGNNSQGGSTQSSGYSSNYAYAPSSLGGAMIDGQSAFANETLNKAP  
GMNTIDQMAALKLGSTEVASNPVKVGSAGVSGSITSNIVASNSLPPATIAPPKPASWA  
DIASKPAKQQPKLKTNGIAGSSLPPPIKHNMDIGTWDNKGPAKAPSQALVQNIQQPT  
QGSPQPVGQQANNSPPVAQASVGQQTQPLPPPPQPAQLSVQQQAAQTRWVAPNRGSG  
FGHNGVDGNGVGQSAGSGSTPSEPHVLEKLRSINNYNPKDFDWNLKHGRVFIKSYSE  
DDIHRSIKYNIWSTEHGNGKRLDAAYRSMNGKGPVYLLFSVNGSGHFCGVAEMKSAVDYN  
TCAGVWSQDKWKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVNTSRDTQEVPLEKAKQV  
LKIIASYKHTTSIFDDFSHYEKRQEEEEVKKERQGRGK

>sp|Q8TCH9|YV004\_HUMAN Putative uncharacterized protein FLJ23865 OS=Homo sapiens PE=2  
SV=1

MPSTEGFGGLDRLVLP PPPQVLPLLSARGRIQFSGRKSTGSWVTQMENLLLAQPLPDDC  
EILCGWRSLLHLTFLIGFAPHFPHWFCNHHCHQHPPSHLTEVLQSSGELAHQLAPSRCSM  
RAEGTHRG

>sp|Q9H869|YYAP1\_HUMAN YY1-associated protein 1 OS=Homo sapiens GN=YY1AP1 PE=1 SV=2

MEEEAASRAAATNP GSRLTRWPPDPKREGSAVDPGKRRSLAATPSSSLPCTLI ALGLRHE  
KEANELMEDLFETFQDEMGSNMEDDGPEEEERVAEPQANFNTQALRFEELLANLLNEQ  
HQIAKELFEQLKMKKPSAKQQKEVEKVKPQCKEVHQTLLDPAQRKRLQQQM QHVQLLT  
QIHLATCNPNLNPEASSTRICKELGTFAQSSIALHHQYNPKFQTLFQPCNLMGAMQLI  
EDFSTHVSIDCSPHKTVKKTANEFPLPKQVAWILATSKVFMYPELLPVCSLKAKNPQDK  
ILFTKAEDNKYLLTCKTARQLTVRIKNLMNRAPDNI IKFYKTKQLPVLGKCCEEI QPH  
QWKPIIEREEHRLPFWLKASLPSIQEELRHMADGAREVGNMGTTEINSDQGLEKDENSEL  
GSETRYPLLLPKGVVLKLPVADRFPKKAWRQKRSSVLKPLLIQPSPSLQPSFNP GKTPA  
QSTHSEAPP SKMVLRIHPHIQPATVLTQTPGVPLGVSGGESFESPAALPAMPPEARTSF  
PLSESQTLLSSAPVKVMMPSPASSMFRKPYVRRRPSKRRGARAFRCIKPAPVIHPASVI  
FTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPIATLLVNPTSFPCLNQPLVASSVS  
PLIVSGNSVNLPSTPEDKAHMNVDIACAVADGENAFQGLEPKLEPQELSPLSATVFPK  
VEHSPGPPPVDKQCQEGLSENSAYRWTVVKTEEGRQALEPLPQGIQESLNNSSPGDLEEV  
VKMEPEDATEEISGFL

>sp|POCG31|Z286B\_HUMAN Putative zinc finger protein 286B OS=Homo sapiens GN=ZNF286B PE=5  
SV=1

METDLAEMPEKGVLSQDSPHFQEKSTEEGEVAALRLTARSQAAAAAAGSRSLRGVHV  
PPPLHPAPAREEIKSTCSLKACFSLSLTLTYRTAFLLSTENEGNLHFQCPSDVETRPQS  
KDSTSVQDFSKAESCKVAIIDRLTRNSVYDSNLEAALECNWLEKQQGNQERHLREMFTH  
MNSLSEETDHEHDVYKSFNQSVLITEDRVPKGSYAFHTLEKSLKQKSNLMKKQRTYKE  
KKPHKCNDGELFTCHSVHIHQHVHTGEKPYTCNECGKSFSHRANLTKHQRTHTRILFE  
CRECKKTFTESSLATHQRIHVGERPYECNECGKGFNRSTHLVQHQLIHTGVRPYECNEC

DKAFIHSSALIKHQRTHTEKPYKCQECGAFSHCSSLTKHQRVHTGEKPYECSECGKTF  
SQSTHLVQHRIHTGEKPYECSECGKTFSSQSSNFAKHQRIHIGKKPYKCSECGKAFIHSS  
ALIQHQRTHTEKPPRCNECGKSFKCSSLIRHQRVHTEEQP

>sp|O60765|Z354A\_HUMAN Zinc finger protein 354A OS=Homo sapiens GN=ZNF354A PE=2 SV=2

MAAGQREARPQVSLTFEDVAVLFTRDEWRKLAPSQRNLYRDVMLENYRNLVSLGLPFTKP  
KVISLLQQGEDPWEVEKDGSGVSSLGSKSSHKTSTQTQDSSFQGLILKRSNRNPWDL  
KLEKPYIYEGRLEKKQDKKGSFQIVSATHKKIPTIERSHKNTELSQNFSPKSVLIRQQIL  
PREKTPPKCEIQGNSLKQNSQLLNQPKITADKRYKCSLCEKTFINTSSLRKHEKNHSGEK  
LFKCKECSKAFSQSSALIQHQITHTEKPYICKECGKAFTLSTSLYKHLRTHTEKSYRC  
KECGKSFRRSGLFIHQKIHAENPCYNPGRKASSCSTSLSGCQRIHSRKKSYLCNECG  
NTFKSSSLRYHQRIHTGEKPFKCSECGRAFSQSASLIQHERIHTGEKPYRCNECGKGFT  
SISRLNRHRIHTGEKFYCNCECGKALSSHSTLIHERIHTGEKPKCKVCGKAQRSSA  
LIHQRMHTGERPYKCNECGKTFRCNSSLSNHQRIHTGEKPYRCEECGISFGQSSALIQH  
RRIHTGEKPFKCNTCGKTFRQSSSRIHQRIHTGEKPYECNTCGKLFNHRSSLTNHYKIH  
IEEDP

>sp|Q96LW1|Z354B\_HUMAN Zinc finger protein 354B OS=Homo sapiens GN=ZNF354B PE=2 SV=1

MAAGQREARPQVSLTFEDVAVLFTWDEWRKLAPSQRNLYRDVMLENYRNLVSLGLSFTKP  
KVISLLQQGEDPWEVEKDSSGVSSLGCKSTPKMTKSTQTQDSFQEQIRKRLKRDEPWNFI  
SERSCIYEEKLKKQDKNENLQIISVAHTKILTVDRSHKNVEFGQNFYLSVFIKQQRFA  
KEKTPSKCEIQRNSFKQNSNLLNQSKIKTAEKRYKCSTCEKAFIHNSSLRKHQKNHTGEK  
LFKCKECLKAFSQSSALIQHQRTHTEKPYICKECGKAFSHSASLCKHLRTHTEKCYRC  
KECGKSFRRSGLFIHQKIHAQENPHKYNPGRKASSYSTSLSGSQKIHLRKKSYLCNECG  
NTFKSSSLRYHQRIHTGEKPFKCSECGRAFSQSASLIQHERIHTGEKPYRCNECGKGFT  
SISRLNRHRIHTGEKLYNCNECGKALSSHSTLIHERIHTGEKPKCKVCGKAQRSSA  
LIHQRMHTGERPYKCNECDKTFRCNSSLSNHQRIHTGEKPYRCLECGMSFGQSAALIQH  
QRIHTGEKPFKCNTCGKTFRQSSSLIAHQRIHTGEKPYECNACGKLFSQRSSLTNHYKIH  
IEEDSLKADLHV

>sp|Q9NSJ1|Z355P\_HUMAN Putative zinc finger protein 355P OS=Homo sapiens GN=ZNF355P PE=5  
SV=2

MRDEVAEKEKADINVTLVFQGYENTPIMVCVDGIVFSKPDVTCLEQRKKPWSMKHPGLT  
QHNIIVHTGDKPYKCKDCGKIFKWSNLTIHQRIHSGEKPYKCEECGKAFKQSSKLNEMR  
AHTGEKPYKCEECGKAFKHPSGLTLHKRIHTGENPYKFEECDKAFYVWLSFTKHMIIHRG  
EKPYKYQECGKAFKWSNLTIIHKRIHTGEKPKCEECGKACKQSLGLTIQKRIHTEEPY  
KCEECGSSNLTIIYKKIHAGEKPYNCEKCGKAFYCSSLIQNNIVHAEKHYKCQECGKAF  
KKSLDLNVHKIHSGEKPYRYEECGKITHSGEESYKCEECGKGFYCSSLTKHMIVHTEE  
KLYKCEECGKAFKWSSELTIIHQRIHTEEPYKCEECVRVFKHSSKLNEMHKNHTGEKPYK  
CEACGKAF

>sp|Q569K4|Z385B\_HUMAN Zinc finger protein 385B OS=Homo sapiens GN=ZNF385B PE=1 SV=1

MNMANFLRGFEKGIKNDRPEDQLSKEKKKILFSFCEVCNIQLNSAAQAVHSNGKSHRK  
RVKQLSDGQPPPPAQSPSSNSSTGSTCHTTLPALVRTPTLMMQPSLDIKPFMSFPVDS  
SSAVGLFPNFNTMDPVQKAVINHTFGVSIIPKKKQVISCNVCQLRFNSDSQAEAHYKGSK  
HAKVKALDATKNPKMVPKDSAKANPSCSITPITGNNSDKSEDGKGLKASSSSQPSSS  
ESGSFLLKSGTTPLPPGAATSPSKSTNGAPGTVVESEEEKAKKLLYCSLCKVAVNSLSQL  
EAHNTGSKHKTMVEARNAGAPIKSYPRPGSRLKMQNGSKGSGLQNKTFHCEICDVHVNSE

IQLKQHISSRRHKDRVAGKPLPKYSPYNKLQRSPSILAAKLAFQKDMMKPLAPAFLLSSP  
LAAAAAVSSALSPPRPSASLFQAPAIPPALLRPGHGPIRATPASILFAPY

>sp|Q66K41|Z385C\_HUMAN Zinc finger protein 385C OS=Homo sapiens GN=ZNF385C PE=1 SV=2

MLAGPASGAPSPLLASLPLPTRLPQPLDFKHLLAFHFNGAAPLSLFPNFSTMDPVQKAV  
ISHTFGVPSPLKKKLFISCNICHRLFNSANQAEAHYKGHKHARKLKAVEAAKSKQRPHTQ  
AQDGAVVSPIPTLASGAPGEPQSKVPAAPPLGPPLQPPPTPDPTCREPAHSELLDAASSS  
SSSSCPPCSPEPGREAPGPEPAAAAVGSSMSGEGRSEKGHLYCPTCKVTVNSASQLQAHN  
TGAKHRWMMEGQRGAPRRSRGRPVSRGGAGHKAKRVTGGRGGRQGSPAFHCALCQLQVN  
SETQLKQHMSRRHKDRLAGKTPKSSQHSKLQKHAALAVSILKSKLALQKQLTKTLAAR  
FLPSPLPTAATAICALPGPLALRPAPTAATTLFPAPILGPALFRTAGAVRPATGPVLA  
PY

>sp|Q13106|ZN154\_HUMAN Zinc finger protein 154 OS=Homo sapiens GN=ZNF154 PE=2 SV=3

MAAATLRTPTQGTVTTFEDVAVHFSWEWGLLDEAQRCLYRDVMLENLALLTSLDVHHQKQ  
HLGEKHFRSNVGRALFVKTCFTHVSGEPSTCREVGKDFLAKLGLFHQQAHTGEQSNSKS  
DGGAI SHRKTHYNCGEHTKAFSGKHTLVQQQRTLTERCYICSECGKSFSKSYSLNDHW  
RLHTGEKPYECECGKSFRQSSSLIQHRRVHTAVRPHECDECGKLFSNKSNIKHRRVHT  
GERPYECSECGKSFSQRSALLQHRGVHTGERPYECSECGFFTYHSSLIKHKVHSGSRP  
YECSECGKSFSQNSSLIEHHRVHTGERPYKCSECGKSFSQRSALLQHRGVHTGERPYECS  
ECGKFFPYSSSLRKHQRVHTGSRPYECSECGKSFTQNSGLIKHRRVHTGEKPYECTECGK  
FSHNSSLIKHQRIHSR

>sp|P49910|ZN165\_HUMAN Zinc finger protein 165 OS=Homo sapiens GN=ZNF165 PE=1 SV=1

MATEPKKAAAQNSPEDEGLLIVKIEEEFIHGQDTCLQRSELLKQELCRQLFRQFCYQDS  
PGPREALSRLRELCCQWLKPEIHTKEQILELLVLEQFLTILPGDLQAWVHEHYPESGEEA  
VTILEDLERGTDEAVLQVQAHEHGQEIFQKKVSPPGPALNVKLQPVETKAHFDSSSEPQLL  
WDCDNESENSRSMKLEIFEKIESQRIISGRISGYISEASGESQDICKSAGRVKRQWEKE  
SGESQRLSSAQDEGFGKILTHKNTVRGEIISHDGCERRLNLNSNEFTHQKSKHGTCDQS  
FKWNSDFINHQIIYAGEKNHQYGKSFKSPKLAKHAAVFSGDKTHQCNECGKAFRHSSKLA  
RHQRIHTGERCYECNECGKSFAESSDLTRHRRHTGERPFGCKEKGRAFNLNSHLIRHQR  
IHTREKPYECSECGKTRVSSHLIRHFRIHTGEKPYECSECGRAFSQSSNLSQHQRIMR  
ENLLM

>sp|Q9Y473|ZN175\_HUMAN Zinc finger protein 175 OS=Homo sapiens GN=ZNF175 PE=1 SV=1

MPADVNL SQKPQVLGPEKQDGSCASVSFEDVTVD FSREEWQQLDPAQRCLYRDVMLELY  
SHLFAVG YHIPNPEVIFRMLKEKEPRVEEAEVSHQRCQEREFGL EIPQKEISKKASFQKD  
MVGEFTRDGSWC SILEELRLDADRTKDEQNNIQPM SHSAFFNKKTLNTESNCEYKDPGK  
MIRTRPHLASSQKQPQKCLFTESLKLNLVNGQNESNDTEQLDDVVGSGQLFSHSSSDA  
CSKNIHTGETFCKGNQCRKVCGHKQSLKQH QIHTQKKPDGCECGGSFTQKSHLFAQQRI  
HSVGNLHECGKCGKAFMPQLKLSVYLT DHTGDIPCICKECGKVFIQRSELLTHQKTHTRK  
KPYKCHDCGKAFFQMLS LFRHQRTSREKLYECSECGKGF SQNSTLIHQIHTGERQYA  
CSECGKAFTQKSTLSLHQRIHSGQKS YVCIECGQAFIQKAHLIVHQRSHTEKPYQCHNC  
GKSFIKSQLDIHHRHTGEKPYECSDCGKTFTQKSHLNIHQIHTGERHHVCSECGKAF  
NQKSILSMHQRIHTGEKPYKCSECGKAFTSKSQFKEHQRIHTGEKPYVCTECGKAFNGRS  
NFHKHQIHTHTRERPFV CYKCGKAFVQKSELITHQRTHMGEKPYECLDCGKSFSKKPQLKV  
HQRIHTGERPYVCECGKAFNNRSNFNKHQTTHTRDKSYKCSYSVKGFTKQ

>sp|O14771|ZN213\_HUMAN Zinc finger protein 213 OS=Homo sapiens GN=ZNF213 PE=2 SV=2

MAAPLEAQDQAPGEGEGLLIVKVEDSSWEQESAQHEDGRDSEACRQRFQFCYGDVHGPH  
EAFSQLWELCCRWLPELRTKEQILELLVLEQFLTVLPGEIQGWVREQHPGSGEEAVALV  
EDLQKQPVKAWRQDVPSEEAPEAAAGRSQATGPPPTVGARRRPSVPQEQQSHSAQPPAL  
LKEGRPGETTDTCFVSGVHGPVALGDIPFYFSREEWGTLDPAQRDLFWDIKRENSRNTTL  
GFGLKGQSEKSLQEMVPVPGQTGSDVTVSWSPPEAAWESENRPRAALGPVVGARRGR  
PPTRRRQFRDLAAEKPHSCGQCGKRFRWGSDLARHQRTHTEKPHKCPECDKSFRSSSDL  
VRHQGVHTGEKPFSCSECGKSFSRSAYLADHQRIHTGEKPFGCSDCGKSFSLRSYLLDHR  
RVHTGERPFGCGECDKSFKQRAHLIAHQSLHAKMAQPVG

>sp|Q9UK12|ZNF222\_HUMAN Zinc finger protein 222 OS=Homo sapiens GN=ZNF222 PE=2 SV=2

MAKLYEAVTFKDVAVIFTEEELGLLDPAQRKLYRDVMLENFRNLLSVGGKIQTOMETVPE  
AGTHEEFSCQIWEQIASDLTRSQDITISNSQLFEQDDNPSQIKARLSTVHTREKPFQGE  
NCKQFFSDVSFFDLPPQLYSGEKSHTCDECGKSFCYISALHIHQRVHMGVKCYKCDVCGK  
EFSQSSRLQTHQRVHTGEKPFKCEQCGKGFRCRSALKVHCKLHMREKPYNCEKCGKAFMH  
NFQLQKHHRIHTGEKPFKCEICGSFCLRSSLNHRHCMVHTAEKLYKSEKYGRGFIIDRLDL  
HKHQMIHMGKPYNCKEKGKSFKWSSYLLVHQRVHTGEKPYKCEECGKGYISKSGLDFFH  
RTHTGERSYNCDNCGKSFRHASSILNHKKLHCQRKPLKCEDCGKRLVCRSYCKDQQRDHS  
GENPSKCEDCGKRYKRRLNLDIILSLFLNDI

>sp|Q9UK11|ZNF223\_HUMAN Zinc finger protein 223 OS=Homo sapiens GN=ZNF223 PE=1 SV=2

MTMSKEAVTFKDVAVVFTEEELGLDLAQRKLYRDVMLENFRNLLSVGHQPFHRDTFHL  
REEKFWMMDIATQREGNSGGKIQPEMKTTFPEAGPHEGWSCQIWEIADLTPQDSTIK  
SSQFFEQGDAHSQVEEGLSIMHTGQKPSNCGKCKQSFSDMSIFDLPPQIRSAEKSHSCDE  
CGKSFCYISALHIHQRVHLGEKLFKCDVCGKEFSQSLHLQTHQRVHTGEKPFKCEQCGRG  
FRCRSALTVHCKLHMGKEKHYNCEACGRAFIHDFQLQKHQRIHTGEKPFKCEICSVSFRLR  
SSLNRHCVVHTGKKPNSTGEYGKGFIRRLDLCKHQTHTGEKPYNCKEKGKSFRRSSYLL  
IHQRVHTGEKPYKCDKCGKSYITKSGLDLHHRHTGERPYNCDGKSFQASSILNHR  
LHCRKKPFKCEDCGKLVYRSYRKDQQKNHSGENPSKCEDCGKRYKRRLNLDIILSLFLN  
DT

>sp|Q9NZL3|ZNF224\_HUMAN Zinc finger protein 224 OS=Homo sapiens GN=ZNF224 PE=1 SV=3

MTTFKEAMTFKDVAVVFTEEELGLDLAQRKLYRDVMLENFRNLLSVGHQAFHRDTFHL  
REEKIWMKTAIQREGNSGDKIQTEMETVSEAGTHQEWFSQIWEKIASDLTRSQDLMIN  
SSQFSKEGDFPCQTEAGLSVIHTRQKSSQNGYKPSFSDVSHFDHQQHLSGEKSHTCDE  
CGKNFCYISALRIHQRVHMGKEKCYKCDVCGKEFSQSSHLQTHQRVHTGEKPFKCECGKG  
FSRRSALNVHKLHTGEKPYNCEECGKAFIHDSQLQEHQRIHTGEKPFKCDICGSFCGR  
SRLNRHSMVHTAEKPFRCDCDKSFRQRSALNSHRMIHTGEKPYKCEECGKGFIICRDLY  
THHMTVHTGEKPYNCKEKGKSFRAWSCLLKHQRVHSGEKPFCCECGKGFYTNSQCYSHQR  
SHSGEKPYPKCECGKGYKRRLDLDFHQRVHTGEKLYNCKEKGKSFSRAPCLLKHERLHSG  
EKPFCCECGKRFTQNSHLHSHQRVHTGEKPYKCEKCGKGYNSKFNLDMHQKVHTGERPY  
NCKEKGKSGFWASCLLKHLHSGEKPFCCECGKRFTQNSQLHSHQRVHTGEKPYKCD  
CGKGFWSSTRLTQRRHSRETPLKCEQHGKNIVQNSFSKVQEKVHSVEKPYKCEDCGKG  
YNRRLNLDMHQRVHMGKTKWCRECDMCFSSQASSRLHQNHHVHGEK

>sp|Q9NYT6|ZNF226\_HUMAN Zinc finger protein 226 OS=Homo sapiens GN=ZNF226 PE=2 SV=2

MMMFKEAVTFKDVAVAFTEEELGLGPAQRKLYRDVMLENFRNLLSVGHPPFKQDVSPIE  
RNEQLWIMTTATRRQGNLGEKNQSKLITVQDRESEELSCWQIQIANDLTRCQDSMIN  
NSQCHKQGDFFPYQVGTSLIQISEDENYIVNKADGPNNTGNPEFPILRTQDSWRKTFLTE

SQRLNRDQQISIKNKLQCKKGVDPIGWISHHDGHRVHKSEKSYRPNDYEKDNMKILTFD  
HNSMIHTGQKSYQCNECKKPFSDLSSFDLHQQLSGKSLTCVERGKGCYSPVLPVHQK  
VHVGEKLKCEDECKEFSQGAHLQTHQKVHVIEKPYKCKQCGKFSRRSALNVHCKVHTAE  
KPYNCEEKGRAFSQASHLDHQLHTGEKPFKCDACGKSFSRNSHLQSHQRVHTGEKPYK  
CEECKGKFICSSNLYIHQRVHTGEKPYKCEECKGFSRPSSLQAHQGVHTGEKSYICTVC  
GKGFTLSSNLQAHQRVHTGEKPYKCECKGKSFRRNQSHYQVHLVVHTGEKPYKCEICGKGF  
SQSSYLQIHQKAHSIEKPFKCEECKGQGNQSSRLQIHLIHTGEKPYKCEECKGFSRRA  
DLKIHCRHTGEKPYNCEECKGVFRQASNLQAHQRVHSGEKPFKCEECKGSFGRSAHLQA  
HQVHTGDKPYKCECKGKFWSLNLDHQRVHTGEKPYKCECKGKFSQASSLQLHQS  
VHTGEKPYKCDVCGKVFSSQLQSHQRVHTGEKPYKCEICGKSFSWRSNLTVHHRIVHGD  
KSYKSNRGGKNIRESTQEKKSIK

>sp|Q86WZ6|Zn227\_HUMAN Zinc finger protein 227 OS=Homo sapiens GN=ZNF227 PE=1 SV=1  
MPSQNYDLPQKKQEKMTKFQEAFTKDVAVVFSREELRLDLTQRKLYRDMVENFKNLV  
AVGHLFPQPMVSQLEAEKLMWMMETETQRSSKHQNMETLQKFALKYLSNQELSCWQIW  
KQVASELTRCLQGKSSQLQGDSTQVSENNIMNPKGDSIYIENQEFPPWRTQHSCGN  
TYLSESQIQSRGQIDVKNLQIHEDFMKSPFHEHIKTDTEPKPKGNEYGKIISDGSN  
QKLPLGEKPHPCGECGRGFSYSPRLPLHPNVHTGEKCFSSHLRTHQRIHPGEKLNCH  
ESGDCFNKSSFHSYQSNHTGEKSYRCDSCGKGFSSSTGLIHYRTHTEKPYKCEECKGC  
FSQSSNFQCHQRVHTEKPYKCEECKGFGWSVNLRVHQRVHGEKPYKCEECKGFTQA  
AHFHIHQRVHTGEKPYKCDVCGKGFSSNPLICHRRVHTGEKPYKCEACGKGFTRNTDLH  
IHFVHTGEKPYKCECKGKFSQASNLQVHQNVTGEKRFKTCGKGFSSSKLQTHQR  
VHTGEKPYRCDVCGKDFSYSSNLKLHQVIHTGEKPYKCEECKGFSWRSNLHAHQRVHSG  
EKPYKCEQCDKSFSAIDFRVHQRVHTGEKPYKCGVCGKGFSSGLQSHQRVHTGEKPY  
KCDVCGKGFYSSQFIYHQRGHTGEKPYKCEECKGFGFRSLNLRHHQRVHTGEKPHICEE  
CGKAFSLPSNLRVHLGVHTREKLFKCEECKGKFSQARLEAHQRVHTGEKPYKCDICDKD  
FRHRSRLTYHQVHTGKKL

>sp|Q14588|Zn234\_HUMAN Zinc finger protein 234 OS=Homo sapiens GN=ZNF234 PE=2 SV=3  
MTTFKEGLTFKDVAVVFTEEELGLDPVQRNLYQDVMLENFRNLLSVGHHPFKHDVFLLE  
KEKKLDIMKTATQRKGKSADKIQSEVETVPEAGRHEELYWGQIWKQIASDLIKYEDSMIS  
ISRFPQGDLSQVRAGLYTTHTGQKFYQCDEYKKSFTDVFNFDLHQQLSHGEKSHTCDE  
CGKSFCYISALHIHQRVHMEKCYKCDVCGKEFSQSSHLQTHQRVHTVEKPFKVECKGK  
FSRRSTLTVHCKLHSGEKPYNCEEKGRAFIHASHLQEHQRIHTGEKPFKCDTCGNFRRR  
SALNNHCMVHTGEKPYKCEDCGKCFTCSSNLRIHQRVHTGEKPYKCEECKGCFIQPSQFQ  
AHRRIHTGEKPYVCKVCGKGFYSSSFQAHQGVHTGEKPYKCECKGKSFRMKIHYQVHLV  
VHTGEKPYKCEVCGKAFRQSSYLKHLKAHSVQKPFKCEECKGQGNQSSRLQIHLIHTG  
EKPYKCEECKGFSRRADLKIHCRIHTGEKPYNCEECKGVFSQASHLLTHQRVHSGEKPF  
KCEECKGSFSRAHLQAHQKVHTGEKPYKCECKGKFWSLNLDHQRVHTGEKPYTCGE  
CGKHFSQASSLQLHQSHTGEKPYKCDVCGKVFSSQLQYHRRVHTGEKPYKCEICGKR  
FSWRSNLVSHHKIHAAGTFYENDENSKNIRELSEGGSSSTR

>sp|Q9UNY5|Zn232\_HUMAN Zinc finger protein 232 OS=Homo sapiens GN=ZNF232 PE=1 SV=1  
MAVSLTAAETLALQGTQGQEKMMMPKKEEQSCEYETRLPGNHSTSQEIFRQFRHLRY  
QETPGPREALSQRLVLCCEWLRPEKHTKEQILEFLVLEQFLTILPEELQSWVRGHHPKSG  
EEAVTVLEDEKGLEPEPQVPGPAHGPAQEPEWEEKESLGAQALSIQLQPKETQPPFK  
SEQVYLHFLSVVTEGDGPEPKDKGSLPQPPI TEVESQVFSEKLATDTSTFEATSEGTLELQ

QRNPKAERLRWSPAQEESEFRQMVIHKEIPTGKKDHECSECGKTFIYNSHLVVHQRVHSG  
EKPYKCSDCGKTFKQSSNLGQHQRHTGEKPFECNECGKAFRWGAHLVQHQRHSGEKPY  
ECNECGKAFSQSSYLSQHRRHSGEKPFICKECGKAYGWCSELIRHRRVHARKEPSH

>sp|Q3ZCT1|ZN260\_HUMAN Zinc finger protein 260 OS=Homo sapiens GN=ZNF260 PE=1 SV=3

MIGMLESLQHESDLLQHDQIHTGEKPYECNECRKTFSLKQNLVEHKKMHTGEKSHECTEC  
GKVCSSRVSSLTLLHRSHTGKKAYKCNKCGKAFSQKENFLSHQKHHTGEKPYECEKVS IQM  
PTIIRHQKNHTGTPYACKCEGKA FN GKAYL TEHEKIHTGEKPFECNQCGRAFSQKQYLI  
KHQNIHTGKKPFKCECGKA FSQKENLI IHQRIHTGEKPYECKGCGKAFIQKSSLIRHQR  
SHTGEKPYTCKEKGKA FSGKSNL TEHEKIHIGE KPYKNECGTIFRQKQYLIKHHNIHTG  
EKPYECNKCGKAFSRITSLIVHVRHTGDKPYECKVCGKAFCQSSSLTVHMRSHTEKPY  
GCNECGKAFSQFSTLALHMRHTGEKPYQCSECGKAFSQKSHHIRHQRIHTH

>sp|Q96NJ3|ZN285\_HUMAN Zinc finger protein 285 OS=Homo sapiens GN=ZNF285 PE=2 SV=2

MIKFQERVTFKDVAVVFTKEELALLDKAQINLYQDVMLENFRNLMLVRDGIKNNILNLQA  
KGLSYLSQEV LH CWIWKQIRIDLTVSQDYIVNLQEESPHLEDVSLSEEWAGISLQISE  
NENYVVAI IKNQDITAWQSLTQVLTPESWRKANIMTEPQNSQGRYKGIYMEEKLYRRAQ  
HDDSLSWTSCDHESQECKGEDPGRHPNCGKNLGMKSTVEKRNAAHVLPQPFPCNCGVA  
FADDTDPHVHSHLGEKSYKCDQYQGNFSQSQDLIVHCKTHSGKTPYEFHEWPMGCKQS  
SDLPRYQKVSSGDKPYKCKEKGKGFRRSSSLHNHHRVHTGEMPYKCDECGKGFGRSLLC  
IHQGVHTGKKPYKCEECGKGFQSSNLLVHQRVHTGEKPYKCECGKCFSSSSVLQVHWR  
FHTGEKPYRCGECGKGFSCQTHLHIHQRVHTGEKPYKCNVCGKDFAYSSVLHTHQRVHTG  
EKPYKCEVCGKCFSYSSYFHLHQRDHIREKPYKDECGKGFSRNSDLNVHLRVHTRERPY  
KCKACGKGFSRNSYLLAHQRVHIDETQYTHCERGDLLTHQRLHEQRETL

>sp|Q9HCX3|ZN304\_HUMAN Zinc finger protein 304 OS=Homo sapiens GN=ZNF304 PE=1 SV=2

MAAAVLMDRVQSCVTFEDVFVYFSREEWELLEEAQRFLYRDVMLENFALVATLGFWCEAE  
HEAPSEQSVSVEGVSQVRTAESGLFQKAHPCEMCDPLLKDILHLAEHQGSHLTQKLCTRG  
LCRRRFSFSANFYQHQQHNGENCFRGDDGGASFVKCTVHMLGRSFTCREEGMDLPDSS  
GLFQHQTTYNRVSPCRRTECMESFPHSSSLRQHQQDYDGGMLFSCGDEGKAFLDTFTLLD  
SQMTHAEVRPFRCLPCGNVFKEKSALINHRKIHSGEISHVCKEKGKAFIHLHHLKMHQKF  
HTGKRHYTCECGKAFSRKDTLVQHQRVHTGERSYDCSECGKAYSRS SHLVQHQRHTGE  
RPYKCNKCGKAFSRKDTLVQHQRVHTGERPYECSECGKFFSQSSHLIEHWRIHTGARPYE  
CIECGKFFSHNSSLIKHRRVHTGARSYVCSKCGKA FGCKDTLVQHQI IHTGARPYECSEC  
GKAFSRKDTLVQHQQIHTGERPYECGECGKFFSHSSNLIVHQRHTGAKPYECNECGKCF  
SHNSSLILHQRVHTGARPYVCSECGKAYISSSHLVQHKKVHTGARPYECSECGKFFSRNS  
GLILHQRVHTGEKPYVCSECGKAYSRS SHLVVRHQAHTGERAHECNSFGGPLAASLKL

>sp|Q96PQ6|ZN317\_HUMAN Zinc finger protein 317 OS=Homo sapiens GN=ZNF317 PE=1 SV=2

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQ  
DVAVDFTKEKWP LL DSSQRKLYKDVMLENYSNLTS LGYQVGKPSLISHLEQEEEP RTEER  
GAHQGACADWETPSKTKWSLLMEDIFGKETPSGVTMERAGLGEKSTEY AHLFEVFGMDPH  
LTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECHQCQKAF TT SASLTRH  
RRIHTGEKPYECSDCGKA FN DPSALRSHARTHLKEKPFDCSQCGNAFRTL SALKIHM RVH  
TGERPYKCDQCGKAYGRSCHLIAHKRTHTGERPYECHDCGKA FQHPSHLKEHVRNHTGEK  
PYACTQCGKA FRWKS NFNLHKKNMVEKTYECKEKGKSF GDLVSRKHMRIHIVKKPVEC  
RQCGKTFRNQSILKTHMNSHTGEKPYGCDLCGKA FSASSNLTAHRKIHTQERRYECAACG  
KVFGDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTL KTHMRSHTGEKPYECDHCGKA FS



IGSNLVHRRHTGEKPYECLVCGKAFSDHSSLRSHVKTHRGEKLFVSSVWKRLQ

>sp|Q5VUA4|ZN318\_HUMAN Zinc finger protein 318 OS=Homo sapiens GN=ZNF318 PE=1 SV=2

MYRSSARSSVSSHRPKDDGGGPRSGRSSGSSSGPARRSSPPPPSGSSSRTPARRPRSP  
SGHRGRRASPSPPRGRVSPSPPRARRGSPSPPRGRRLFPPGPAGFRGSSRGESRADYAR  
DGRGDHPGDSGSRRRSPGLCSDSLEKSLRITVGNDFCVSTPERRRLSDRLGSPVDNLED  
MDRDDLTDSDVFTRSSQCSRGLERYISQEEGPLSPFLGQLDEYRTKETFLHRSDYSPHI  
SCHDELLRGTERNREKLKGYSIRSEERSREAKRPRYDDTVKINSMGGDHPSFTSGTRNYR  
QRRRSPSPRFLDPEFRELDLARRKREEEERSRSLSQELVGVDGGGTGCSIPGLSGVLT  
SEPGYSLHRPEEVSVMPPKKSILKKRIEVDIMEPSMQLESFSSSTSSSQDHPLYSGHPSLP  
LSGAIAAFASEIENKGMTVETALKEPQGNLYQWGPLPGIPKDNSPLREKFGSFLCHKDNL  
DLKAEGPERHTDFLLPHERASQDGSFGRILSMLADSTSTQEKRRRSFPDIEDEEKFLYG  
DEEEDLKAESVPKPLGSSESEVMRQKASSLPSSAPAVKLESLEETNPEYAKIHDLLKTIG  
LDIGVAEISQLAARTQERLHGKKPSLRSSADRRSSVDRYFSADHCSSVDHRFSADRCSSV  
DHCFSADRRSSDPHRLESREAHHSNTHSPEVSHPHPPSPVDPYLLTKNSPPFLKSDHPVG  
HISGPEVVGSGFQSSAVRCMLPSAPSAPIRLPHTAALSQFHMPPRASQFAAARIPPNYQG  
PAIPPASFDAYRHYMAYAASRWPMYPTSQPSNHPVPEPHRIMPITKQATRSRPNLRVPT  
VTPDKPKQKESLRGSIPAAQVPVQVSIPLIRYNPEKISDEKNRASQKQKVIIEEREKLN  
DREARQKKMYLRTELERLHKQKGEMLRKKRREKDGHKDPLLVEVSRLQDNIMKDIAELR  
QEAEAEKKQSELDKVAQILGINIFDKSQKSLSDSREPTEKPGKAESKSPEKVSSFSNS  
SSNKESKVNNEKFRTKSPKPAESPQSATKQLDQPTAAYEYDAGNHWCKDCNTICGTMFD  
FFTHMHNKHTQTLDYPNRPWASKTQSEAKQDAIKRTDKITVPAKGSEFLVPISGFYCQL  
CEEFLGDPISGEQHVKGHQHNEKYKKYVDENPLYEERRNLDQAGLAVVLETERRRQSEL  
KRLKSEKPKEEKKKAKAVKEVKEDDKVSEKLEDQLSEGRNSPEKAENKRNTGIKLQKL  
EEVKESPTSSSFGKFSWKKPEKEEEKSSLVTPSISKEEILESSKDKEDGKTEAGKAKPI  
KIKLSGKTVAHTSPWMPVVTSTQTKIRPNLPIPTVLRKSCSATMSKPAPLNTFLSIK  
SSGTTAKPLPVVKESSADLLLPPDIISKAFGGEEVILKGSPEEKVVLAEKSEPSHLPEQI  
LPPPPPPPPPPPPPPVIPHPAAPSAAQANAILAPVKSNPVVSQTLSPGFVGNILNPVL  
PVAIMASQAAPAIPSDETAPGVSESDRDQTLFSLVLRPPPLSSVFSEQAKKLEKRNCL  
ATANAKDLYDIFYSSGGKGAPETKGAPETKLSGGPLANGENSLSRTKSSDTSSTSPLNS  
SASQEELHQDEGLVAAPIVSNSEKPIAKTLVALGKWSVVEHVGPKSTGSTYGFLQPLTRL  
CQSRPYETITPKTDLAIWTSSSFQSDTSRDISPEKSELDLGEPPPGVEPPPQLLDIQC  
KESQKLVEIHLRESVNQDKESQELRKSEDCRESEIETNTELKERVKELSEGIVDEGVSTS  
IGPHSIDDSNLNHNRYMWEDEVKQPNLLMIDKEAEQSNKLMTGSETPSKVVIKLSQAC  
SFTKAKLDSFLSEARSLLNPQDTPVKISAPELLLHSPARSAMCLTGSPQEQQGVSVVSEEG  
LENSAPESASRTSRYSLKLKRERSKDFQVKKIYELAVWDENKKRPETWESPEKPKTEAL  
ELQDVHPELTVTIESKALEDFEATDLKVEELTALGNLGDMPVDFCTTRVSPAHRSPTVLC  
QKVCEENSVPSPICNSSDPADFEPISFSGFPLDSPKTLVLDFTETEGERNSPNPRSVRIP  
SPNILKTGLTENVDRLGGLEGTHQALDLLAGGMMPEEVKESSQLDKQESLGLELKTINS  
AGLGSPCLPDLVDFVTRTSGVQKDKLCSPLSEPGDPSKCSSLELGPLQLEISNASTTEV  
AILQVDDSGDPLNLVKAPVSRSPPREQVIEDNMVPQGMPEQETTGAIQDHTESSVHN

>sp|Q9C0G0|ZN407\_HUMAN Zinc finger protein 407 OS=Homo sapiens GN=ZNF407 PE=1 SV=2

MMDSENKPENDEDIKINKEAQLTKLSSHNEGGPVSDVIASFPENSMGKRGFSESSNSD  
SVVIGEDRNKHASKRRKLDEAEPLKSGKQICRLETSESSVTEGGIALDETGETFLSDC  
TVGGTCLPNALSPSCNFSTIDVVS�KTDTEKTSQEMVSLDLERESFPFPKEISVSCTIG

NVDTVLCSCICGHLFSSCSDLEKHAESHMQPKEHTCCHCSHKAESSALHMHKQAHGP  
QKVFSCDLCGFQCSEENLLNAHYLGKTHLRRQNLAARGGFVQILTKQPFPKSRTMATKN  
VHSKPRTSKSIAKNSDSKGLRNVGSTFKDFRGSISKQSGSSSELLVEMMPSRNTLSQEVE  
IVEEHVTSGLAQNPENQSRKLDLTVTSEGLEKLESTKNTLQAAHGNSVTSRPRPERNI  
LVLGNSFRRRSSTFTLKGQAKKRFNLLGIKRGTSQRMVMKHLRTQMKTHDAESVLKHL  
EACSSVQRVCVTSETQAEQGGQSARPPDSGLHSLTVKPASGSQTLCACTDCGQVATNR  
TDLEIHVKRCHAREMKFYCRTCDFSSMSRRDLDEHLHSNHQQTASVLSQCCSFISLDE  
INLRDHMKEKHNMFHLCPCNLFSEKDVEEHKATEKHINSLVQPKTLQSSNSDLVLQT  
LPLSTLESENAKESMDDSGKASQEEPLKSRVSHGNEVRHSSKPFQCKKCFYKTRSSTVL  
TRHIKLRHGQDYHFLCKACNLYLSKEGMEKHIKRSKHLENAKNNIGLSFEECIERVCI  
GANDKKEEFDVSGNGRIEGHIGVQLQEHSYLEKGMASEELSQSGGSTKDDELASTTPK  
RGRPKGNISRTCSHCGLLASSITNLTVHIRRKSHQSYLCKVCKYYTVTKGDMERHCAT  
KKHKGRVEIEASGKHSSDIIVGPEGGSLEAGKKNAGSAVTMSDEHANKPAESPTSVLEKP  
DRGNSIEAEVENVFHSLDGEVNSHLLDKKEQISSEPEDFAQPGDVYSQRDVTGTGENKCL  
HCEFSAHSSASLELHVKRKHTKEFEFYCMACDYAVTRREMTRHAATEKHMKMRQSYLNS  
ANVEAGSADMSKNIIMPEEEHQNSEEFQISGQPSDTLKS RNAADCSILNENTNLDMSK  
VLCAADSVEVETEEESNFNEDHSFCETFQQAPVKDKVRKPEEMSLTMSSNYGSPSRFQN  
ENSGSSALNCETAKNHEISNDAGELRVHCEGEGGNAGDGGGVVPHRHLCPVTLDGERSA  
ESPVLVVTRITREQNLESQGNRVARGHLEDLKGVEDPVLGNKEILMNSQHETEFIL  
EEDGPASDSTVESSDVYETIISIDDKGQAMYSFGRFDSSIIRIKNPEDGELIDQSEGLI  
ATGVRISELPLDKCAQGVKKKKSEGSIGESTRIRCDDCGFLADGLSGLNVHIAMKHPTK  
EKHFHCLLCGKSFYTESNLHQHLASAGHMRNEQASVEELPEGGATFKCVKCTEPFDSEQN  
LFLHIKQHEELLREVNKYIVEDTEQINREREENQGNVCKYCGKMCRSSNSMAFLAHIRT  
HTGSKPFKCKICHFATAQLGDARNHVKRHLGMREYKCHVCGVAFVMKKHLNTHLLGKHGV  
GTPKERKFTCHLCDRSFTEKWALNNHMKLHTGEKPFKCTWPTCHYSFLTASAMKDHYRTH  
TGEKSFLCDLCGFAGGTRHALTKHRRQHTGEKPFKCDENFASTTQSHLTRHKRVHTGEK  
PYRCPWCDYRSNCAENIRKHILHTGKHEGVKMYNCPKCDYGTNPVVEFRNHLKEQHPDIE  
NPDLAYLHAGIVSKSYECRLKGQGATFVETDSPFTAAALAEELVKEKPLRSSRRPAPP  
EQVQQVIFQGYDGEFALDPSVEETAATLQTLAMAGQVARVVHITEDGQVIATSQSGAH  
VGSVVPGPILPEQLADGATQVVVVGSGMEGHGMDSELSPGGAVIQQVTKQEILNLSEAGV  
APPEASSALDALLCAVTELGEVEGRAGLEEQGRPGAKDVLIIQLPGQEVSHVAADPEAPEI  
QMFPQAQESPAAVEVLTQVVHPSAAMASQERAQVAFKKMVQGVLFVAVCDTAAAGQLVKD  
GVTQVVVSEEGAVHVMAGEGAQIIMQEAQGEHMDLVESDGEISQIIVTEELVQAMVQESS  
GGFSEGTHYILTELPPGVQDEPLYSHTVLETADSQELLQAGATLGTEAGAPSRAEQLA  
SVVIYQTQEGSSAAAAIQSQRESSELQEA

>sp|Q96IQ9|ZN414\_HUMAN Zinc finger protein 414 OS=Homo sapiens GN=ZNF414 PE=1 SV=2  
MEEKPSGPIPDMLATAEPSSSETDKEVLSPAVPAAAPSSSMSEEPGPEQAATPPVWERGG  
AGGMQQGSSPAPDSCQPGPGPSPLTSIVSGTSEDLRPPRRRPPPGKQIPCSSPGCCLSF  
PSVRDLAQHLRTHCPPTQSLEGKLFRCALSCTETFPQMELVAHSLHYKPNRYFKCEN  
CLLRFRTHRSLFKHLHVCAEHAQSPAPPPPPALDREPPAPERPPPEVDPASAPGLPFPLLE  
PFTTPAPAPTGPFLPYLNPAPFGLSPPLRPFLAAAPGPPASSAAVWKSQGAGSSPRRP  
QGGSDAPSGACR

>sp|Q8NDP4|ZN439\_HUMAN Zinc finger protein 439 OS=Homo sapiens GN=ZNF439 PE=1 SV=1  
MLSLSPIILTYTCMFQDPVAFKDVAVNFTQEEWALLDISQKNLYREVMLETFWNLTSIGK

KWKDQNI EYEQNPRRNF RSVTEEKVNEIKEDSHCGETFTPVPDDRLNFQKKKASPEVKS  
CDSFVCEVGLGNSSSNMNI RGDTHKACECQEYGPKPWKSQQPKAFRYHPSLRTQERDH  
TGKKPYACEKCGKNI IYHSSIQRHMVVHSGDGPYKCKFCGKAFHCLSLYLIHERHTHTEK  
PYECKQCGKSFSYSATHRIHERTHIGEKPYECQECGKAFHSPRSCHRHERSHMGEKAYQC  
KECGKAFMCPRYVRRHERTHSRKKLYECKQCGKALSSLTSFQTHIRMHSGERPYECKTCG  
KGFYSAKSFQRHEKTHSGEKPYKCKQCGKAFTRSGSFRYHERHTHTEKPYECKQCGKAFR  
SAPNLQLHGRTHTEKPYQCKECKGAFRSASQLRIHRRHTHTEKPYECKKCGKAFRYVQN  
FRFHERTQTHKNALWRKTL

>sp|Q5VIY5|ZN468\_HUMAN Zinc finger protein 468 OS=Homo sapiens GN=ZNF468 PE=2 SV=1  
MALPQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDISSKMLKTLSS  
TGQGNTEVIHTGTLHRQASHHIGEFCHFIEKD IHGFEFQWKEDETNGHAAPMTEIKELA  
GSTGQHDQRHAGNKRIKDQLGSSFHLHLEPHIFQSEGKIGNVEKSINNASSVSTSQRI  
CCRPKTHISNKYGNNLSHSSLTQKWEVHMREKSFECIQSFKSFNCSSLLKKHQI IHLEE  
KQCKCDVCGKVFNQRYLACHRRCHTEKPYKCNECGKTFGHNSSLFIHKALHTGEKPYE  
CEECDKVF SRKSHLERHKRIHTGEKPYKCKVCDEAFAYNSYLAKHTILHTGEKPYTCNEC  
GKVFNRLSTLARHHRLHTGEKPYKCEECDKVF SRKSHLERHRRHISGEKPYKCEECKVF  
SRKSNLERHRRHTHTEKPYKCKVCDAFQRD SHLAQHQRVHTGEKPYKCNECGKTFGQTS  
SLI IHRRLHTGEKPYKCNECGKTF SQMSSLVYHRLHSGEKP

>sp|Q9BX82|ZN471\_HUMAN Zinc finger protein 471 OS=Homo sapiens GN=ZNF471 PE=2 SV=1  
MNVEVVKVMPQDLVTFKDVAIDFSQEEWQWMNPAQKRLYRSMMLENYQSLVSLGLCISKP  
YVISLLEQGREPWEMTSEMTRSPFSDWESIYVTQELPLKQFMYDDACMEGITSYGLECST  
FEENWKWEDLFEKQMGSEMF SKKEI ITHKETITKETEFKYTKFGKCIHLENIEESIYNH  
TSDKKSFSKNSMVIKHKKVYVGKLLFKCNECDKTFTHSSSLTVHFRIHTGEKPYACEECG  
KAFKQRQHLAQHHRHTHTEKLFECKECRKAFKQSEHLIQHQRHTHTEKPYKCKECCRKAFR  
QPAHLAQHQRHTHTEKPYECKECKGAFSDGSSFARHQRCHTGKRPYECIECGKAFRYNTS  
FIRHWSYHTGEKPFNCIDCGKAFSVHIGLILHRRHTHTEKPYKCGVCGKTFSSGSSRTV  
HQRIHTGEKPYECDICGKDFSHHASLTQHQRVHSGEKPYECKECKGAFRQNVHLVSHLRI  
HTGEKPYECKECKGAFRISSQLATHQRIHTGEKPYECIECGNAFKQRSHLAQHKTHTGE  
KPYECNECGKAFSQTSNLTQHQRHTHTEKPYKCTECGKAFSDSSSCAQHQLRHTGQRPYQ  
CFECGKAFRRLKSLICHQRSHTGEEP

>sp|Q8WV37|ZN480\_HUMAN Zinc finger protein 480 OS=Homo sapiens GN=ZNF480 PE=1 SV=2  
MLCDEKAQKRRKRKAKESGMALPQGHLTFRDVAIEFSQAEWKCLDPAQRALYKDVMLENY  
RNLVSLGISLPDLNINSMLEQRREPWSGESEVKIAKNSDGRECIKGVNTGSSYALGSNAE  
DKPIKKQLGVSFHLHLELELFPDERVINGCNQVENFINHSSSVSCLQEMSSSVKTPIFN  
RNDFDDSSFLPQEQQVHLREKPYECNEHSKVFRVSSSLTKHQVIHTVEKPYKCNSCGKVF  
SRNSHLAEHCRIHTGEKPYKCNVCGKVF SYNSNFARHQRHTREKPYECNECGKVF SNNS  
YLARHQRIHAEEKPYKCNECGKGF SHKSSLANHWRIYTGEPYKCECGKAFYRIALLVR  
HQKIHTGEKPYKCNECGKVFIQNSHLAQHWRIHTGEKPYKCNECGKVFNQLSNLARHRRRI  
HTGEKPYKCNECGKAFSEYSGLSAHLVIHTGEKPYKCECGKAFRHKLSLTNHQRIHTGE  
RPYKCNECGKVFNRIAHLARHRKIHTGEKPYKCNECGKAFSRISYLAQHWTIHMG

>sp|Q8NCK3|ZN485\_HUMAN Zinc finger protein 485 OS=Homo sapiens GN=ZNF485 PE=2 SV=1  
MAPRAQIQGPLTFGDVAVAFTRIEWRHLDAAQRALYRDVMLENYGNLVSGLLSSKPKLI  
TQLEQGAEPWTEVREAPSGTHAVEDYWFETKMSALKQSTSEASVLGERTKSVMMEKGLDW  
EGRSSTEKNYKCKECKGVFKYNSSFISHQRNHTSEKPHKCKECKGIAFMNSSSLLNHHKVH

AGKQPYRCIECGFLKKHSTFINHQRIHSREKPHKCIIECGKTRKNSILLSHQRIHTGQK  
PYKCNDCGKAFAQNAALTRHERIHSGEKPFCKNCGRAFRDNSTVLEHQKIHTGEKPYQC  
NECGKAFRKSSSTLISHQRMHTGEKPYHCSKCGKSFYSSSFAGHQKTHSGNKPYQCRDCG  
KAFTKSSSTLTGHQRIHTGEKPYHCKKCGKAFRHSSGLVEHQRLHTGEKPYKCNECGKAFP  
RSSALKQHKKIHNKERAMKCS

>sp|B1APH4|ZN487\_HUMAN Putative zinc finger protein 487 OS=Homo sapiens GN=ZNF487 PE=5  
SV=3

MASRP RPRTPSRGP S D L RFRGEAGLR RVFLKKAGGSVSFS D VAVGFTQEEWQH L D S A Q R T  
PYRDMML ENY S L L L S V G Y C I T K P E V V C K L E H G Q V L W I L E E E S P S Q S H L D C C I D D D L M E K R  
Q E N Q D Q H L K Q V D F V N N K T L T M D R N G V L G K T F S L D T N P I L S R K I R G N C D S S G M N L N N I S E L  
I I S N R S S F V R N P A E C N V R G K F L L C M K R E N P Y A R G K P L E Y D G N G K A V S Q N E D L F R H Q Y I Q T  
L K Q C F E Y N H R G Y T E E R N P M N A L N V G K L L D I G H A L Q Y I K E H T R D K T Y E C N E C G K N F C E K S N  
L H V H Q R T H T G E K P Y C N E C Q A F G D R S A L K V H Q R I H T G E K P Y E L H Q R T H T G E K P Y A C S E C  
G K T F Y Q K S S L T T H Q R T H T R E Q P Y E Y N E S F Y Q N P N F T K C Q R D N I E E T L V N I L K A Q K P S P S W  
T R S I A E T T Q V G G S V S L K D V T V D F T Q E E W

>sp|Q6ZR52|ZN493\_HUMAN Zinc finger protein 493 OS=Homo sapiens GN=ZNF493 PE=2 SV=3

MNECNVHKEGYNELNQYLTTTQSKIFQCDKYVKVFHKLNSNRHNTKHTGKKPFKCKKCG  
KSFCMLLHLCQHKKRIHIRENSYRCEECGAFIWFSTLTRHRRVHTGEKSYKYECGKSFNQ  
DSNLTHKRIHTGQKPYKCEECGTSFYQFSYLTRHKL IHTREKPYKCEQYGKTFNQSSSTL  
TGHKI IHNGEKPYKCEECGKA F S I F S T P T K H K I I H T E E K S H R C E E Y C K A Y K E S S H L T H K  
R I H T G E K P Y K C E E C G K A F S I F S T L T K H K I I H T E E K S H R C E E C G K A Y K E S S H L T H K R I H T  
G E K P Y K C E E C G K T F S V F S I L T K H K I I H T E E K P Y K C E E C G K A F K R S S T L T K H R I I H T E E K P  
Y K C E E C G K A F N Q S S T L S I H K I I H T G E K P Y K C E E C G K A F K R S S T L I H K M I H T G E K P Y K C E  
E C G K A F N R S S H L T T H K R I H T G H K P Y K C K E C G K S F S V F S T L T K H K I I H T D K K P Y K C E E C G K  
A F N R S S I L S I H K K I H T G E K P Y K C E E C G K A F K R S S H L A G H K Q I H S V Q K P Y K C E E C G K A F S I  
F S T L T K H K I I H T E E K P Y K C E K C G K T F Y R F S N L N T H K I I H T G E K P C K C E E C G K A F N H S S N L  
I K H K L I H T G D K P Y K C E A C G K A F R R S S H L S R H K I I H I G I H T E E T V Q K

>sp|O60304|ZN500\_HUMAN Zinc finger protein 500 OS=Homo sapiens GN=ZNF500 PE=2 SV=2

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VAGPREALSRLWELCCRWLRLPELRTKEQILELLVLEQFLTVLPGEIQARVREQQPESGEE  
AVVLVEGLQRKPRKHRQRGSELLSDDEVPLGIGGQFLKHQAEAPEDLSLEEEARFSSQQ  
PPAQLSHRPQRGPPLWPERGPPAPRHQEMASASPFLSAWSQVPVNLEDVAVYLSGEEPRC  
MDPAQRDAPLENEGPGIQLEDGGDGREDAPLRMEWYRVLSARCQGPGHPLPGQRPAPVRG  
LVRPDQPRGGPPPGRRASHGADKPYTCPECGKGFSKTSHLTKHQRTHTGERPYKCLVCGK  
GFSDRSNFSSTHQRVHTGEKPYPCPECGKRFSQSSSLVIHRRTHSGERPYACTQCGKRFNN  
SSHFSahrRTHtGEKPYTCpACGRGfRRGTDLHKHQRTHMGAGSLPTLQPVAPGGPGAKA

>sp|Q6P280|ZN529\_HUMAN Zinc finger protein 529 OS=Homo sapiens GN=ZNF529 PE=2 SV=2

MANSSFIGDHVHGAPHAVMPEVEFPDQFFTVLTMDHELVTLRDVVINFSQEWEYLDSAQ  
RNLYWDVMMENYSNLLSLDLESNETKHL SVGKDIIQNTGSQWEVMESSKLCGLEGSIFR  
NDWQSKSKIDLQGPVGYFSQMKIISENVPSYKTHESLTLP RRTHDSEKPYEYKEYEKVF  
SCDLEFDEYQKIHTGGKNYECNQCWKTFGIDNSSMLQLNIHTGVKPCYMEYGNTCSFYK  
DFNVYQKIHNEKFYKCKEYRRTFERVGVTP LQRVHDGEKHFEC SFCGKSFRVHAQLTRH  
QKIHTDEKTYKMECGKDFRFHSQLTEHQRIHTGEKPYKCMHCEKVFRISSQLIEHQRIH  
TGEKPYACKECGKAFGVCRELARHQRIHTGKKPYECKACGKVFRNSSSLTRHQRIHTGEK

PYKCKECEKAFGVGSELTRHERIHSGQKPYECKECGKFFRLTSALIQHQRIHSGEKPYES  
KVC GKAFRHSSALTEHQRIHTGEKPYECKACGKAFRHSSSFTKHQRIHTDDKPYECKECG  
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>sp|Q76KX8|ZN534\_HUMAN Zinc finger protein 534 OS=Homo sapiens GN=ZNF534 PE=2 SV=1  
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GICLPDLSVTSMLEQKRDPWTLQSEVKIINNPDGRECICKGVNTEKSSKLGSSAGNKS LKN  
QHGLTLQLHLEWQPFQAVRNIIYGCKHVEKSI SDNSSVSPVQISFFSVKTHIFNNYRND  
LFSTLLPQEQKVHIREKPYGCNEHGKVFVSSSLTNRQVIHIADKTYKSDCGEIFSSNS  
NFAHQRIHTGEKPYPYNECGKVFNQNSHLAQHQKIHTGQKPYNNKECGKVFSSHAYLAQ  
HRKIHTGEKPYPKCECGKAFSVCSSTAHLVIIHTGEKPYDCKECGKVF RHKSSLTTHQTV  
HTGERPYKNECGKGF SRIAFLARHRKVHTGEKPYPKNECGKVFIGNSRLARHRKIHTGG  
RRYKNECGKAFRTCSDLTAHLLIHTGEKPYESIDCGKVF RHKSSLTTHCRIHTGEKPYPK  
CNECGKVF SQNSNLQRHRKIHTGEKLYKNECGKVF RQNSHLAQHRDIHTGEKPYSCNEC  
GKVFRRNSHLVRHRNVHTGEKPYSCNECGKVF SRNSHLARHRNIHTGEKPHSCNECGKVF  
SRNSHLARHRKIHTGEKLYKNECSKVFSRNSRLAQHRNIHTGVKPYSCNECGKVF SKNS  
ILVQHCSIHTREKP

>sp|O15090|ZN536\_HUMAN Zinc finger protein 536 OS=Homo sapiens GN=ZNF536 PE=1 SV=3  
MEEASLCLGVSSAEPEAPHLSPVLNGQYAMSQKLHQITSQLSHAFPELHPRPNPEEK  
PASLEEKAHVPMGSGPMGSMALLANQLGREVDTS LNGRVDLQQFLNGQNLGIMSQMSDI  
EDDARKNRKYPCLCGKRFRFNSILSLHMRTHTEKPFKCPYCDHRAAQKGNLKIHLRTH  
KLGNLGKGRGRVREENRLLHELEERAILRDKQLKGSLLQPRPDLKPPPHAQQAPLA  
ACTLALQANHSPDV AHPVPSPKPASVQEDAVAPAAGFRCTFCKGKFKKREELDRHIRILHKPY  
KCTLCDFAASQEEELISHVEKAHITAESAQQGGPNGGGEQSANEFCEVCGQVFSQAWFL  
KGHMRKHKDSFEHCCQICGRRFKEPWFLKNHMKVHLNKL SVKNKSPSDPEVPVPMGMSQ  
EAHANLYSRYLSCLQSGFMTDPKAGLSEPSQLYGKGELPMKEKEALGKLLSPISSMAHGV  
PEGDKHSLGCLNLVPLKSSCIERLQAAAKAAEMDPVNSYQAWQLMARGMAMEHGFLSK  
EHPLQRNHEDTLANAGVLFDEKREYVLVGADGSKQKMPADLVHSTKVGSRDLPSKLD  
PLESSRDFLSHGLNQTL EYNLQGPNGMKEKPT ECPDCGRVFRTYHQVVVHSRVH KDRKGE  
EDGLHVGLDERRSGSDQESQSVSRSTTPGSSNVTEESGVGGLSQTGSAQEDSPHPSSP  
SSSDIGEEAGRSAGVQQPALLRDRSLGSAMKDCPYCGKTFRTSHHLKVHLRIHTGEKPYPK  
CPHCDYAGTQSASLYHLERHHRRERQNGAGPLSGQPPNQD HKDEMSSKASLFIRPDILRG  
AFKGLPGIDFRGGPASQQTSGVLSSGDHSGQATGMSSEVPSDALKGTDLPSKSTHFSEI  
GRAYQSIVSNGVNFQGS LQAFMDSFVLSLKKEDMKDKALADPPSMKVHGV DGGEEKPS  
GKSSQRKSEKSQYEPLDLSVRPDAASLP GSSVTVDQSI AWHGCLFCAFTTSSMELMALHL  
QANHLGAKAKRDNTIGVTVNCKDQAREASKMALLPSLQSNKDLGLSNMISSLDSASEKMA  
QQQLKETLGEQKSGAWTGHVDP AFCNFP SDFYKQFGVYPGMVGS GASSSCP NKEPDGKAH  
SEEDVPILIPETTSKNTTDDLSDIASSEDMDSSKGENNDEEDVETEP EMMTKPLSALSKD  
SSSDGGDSLQPTGT SQPVQGLVSPLSQAPEKQWHSQGLLQAQDPLAGLPKPERGPQSLDK  
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>sp|Q9H0D2|ZN541\_HUMAN Zinc finger protein 541 OS=Homo sapiens GN=ZNF541 PE=1 SV=3  
MDQYSLGDEGALPSEMHLPSFSESQGLNCSDTLN RDLGPNTRGFLYAGLSGLDPDPSLPT  
PDMSSEVLEDNLD TSLSYSGKDS SVKLL EYADSESQASLQDLGLGV LKAKEADEGGR  
ATSGSARKGKRQHSSPQNPLD CSLCGKVFSSASSLSKH YLTHSQRKHVCKICSKAFKRQ  
DHLTG HMLTHQKTKPFV CIEQGC SKSYCDYRSLRRHYEVHHGLCILKEAPPEEEACGDSP

HAHESAGQPPSSSLRSLVPPEARSPGSLPHRDLLRRIVSSIVHQTPSPGPAPAGASDS  
EGRNTACPCPASSGSSSCTPAGPHAAPAALDTELPEEPCLPQKEPATDVFTAPNSRAAEN  
GAPDPPEPEPDTALLQARSTAECWPEGGSVPACLPLFRGQTVPASSQPSSHSFQWLRNLP  
GCPKSKGNVVFVHKPSAVPSREGSESGPGSSGSPSEESPPGPGGGLEDALPFAALLR  
VPAEAPSDPRSASGEDDPCAPKKVKVDCDSFLCQNPGEPLQEAQKAGGLPADASPLFRQ  
LFLKSQEPLVSHEQMVFQMITKSQRIFSHAQVAAVSSQLPAPEGKPAALRPLQGPWPQQ  
PPPLAPAVDSLHAGPGNPEAEGSPARRRKTTPGVPREASPGSTRDAKGLKVAAVPTPL  
AAPSLDPSRNPDISSLAKQLRSSKGTLDLEDIFPSTGQRQTQLGGEEPPGASLPGKQAPA  
ENGAASRITKGEKGPACSRGGGYRLLGNPRAPRFSGFRKEKAKMDMCCAASPSQVAMASF  
SSAGPPADPSKSKLTIFSRIQGGNIYRLPHPVKEENVAGRGNQNGSPTDWTKPRSTFVC  
KNCSQMFYTEKGLSSHMCFHSDQWSPRGKQEPQVFGTEFCKPLRQVLRPEGDRHSPPGT  
KKPLDPTAAAPLVVPQSIPVVPVTRHIGSMAMGQEKDGEERDSKESQQRKRKKRPPST  
AGEPGPAGCHQSRLRSPMFLVDCLLKGLFQCSPYTPPPMLSPIREGSGVYFNTLCSTSTQ  
ASPDQLISSMLDQVDGSFGICVVKDDTKISIEPHINIGSRFQAEIPELQERSLAGTDEHV  
ASLVKWPWGDMMISSETQDRVTELCNVACSSVMPGGGTNLELALHCLHEAQGNVQVALET  
LLLRGPHKPRTHLLADYRYTGSDVWTPIEKRLFKAIFYAHKKDFYLIHKMIQTKTVAQCV  
EYYYIWKMKIKFDCGRAPGLEKRVKREPEEVERTEEKVPCSPRERPSHHPTPKLTKSYR  
RESILSSSPNAGSKRTEPELLGSAESQGIFFCRECERVFDKIKSRNAHMKRHLQDHVEPI  
IRVWPVPKPFQLKEEELGADIGPLQW

>sp|Q6NX49|ZNF544\_HUMAN Zinc finger protein 544 OS=Homo sapiens GN=ZNF544 PE=1 SV=1

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DVISQLEQEEDLCRAEQEAPRDWKATLEENRLNSEKDRAREELSHHVEVYRSGPEEPPSL  
VLGKVQDQSNQLREHQENSLRFMVLTSERLFAQREHCELELGGGYSLPSTLSLLPTTLPT  
STGFPKPNQSVKELKQNSAFINHEKNGADGKHCESHQCARAFCSQSIYLSKLGNETGKKN  
PYEYIVSGDSLNYGSSLCFHGRFTSVKKSDDCKDYGNLFSHSVSLNEQKPVHFGKSQYEC  
DECRETCSESLCLVQTERSGGETPFRCEERCAAFPMASSFSDCNI IQTTEKPSVCNQCG  
KSFSCCKLIHQRTHTGEKPFECTQCGKSFSQSYDLVIHQRTHTGEKPYECDLCGKSFTQR  
SKLIHQRIHTGEKPYQCI ECRKSFRWNSNLIVHQRIHTGEKPYECTHCCKSFSQSYELV  
THKRTHTEKPFKCTQCGKSFSQKYDLVHQRTHTEKPYECNLCKGSFSQSSKLIHQRI  
IHTGEKPYQCI ECKGSFRWNSNLIVHQRIHTGEKPYDCTHCCKSFSQSYQLVAHKRTHTG  
EKPYECNECGKAFNRSTQLIRHLQIHTGEKPYKCNQCNKAFARSSYLMHQRTHTEKPF  
ECSQCGKAFSGSSNLLSHHRIHSGEKPYECSDCKGSFRQSQSLVHRRTHTEKPF

>sp|Q8NEK5|ZNF548\_HUMAN Zinc finger protein 548 OS=Homo sapiens GN=ZNF548 PE=2 SV=2

MNLTEGRVVFEDVAIYFSQEEWGHLEAQRLLYRDVMLENLALLSSLGSHWGADEEEAPS  
QQGFSVGVSEVTASKPCLSSQKVHPSETCGPPLKDILCLVEHNGIHPEQHIYICEAELFQ  
HPKQQIGENLSRGDDWIPSGKNHRVHMAEEIFTCMEGWKDLPATSCLLQHQPQSEWKP  
YRDTEDREAFQTGQNDYKCECGKTFTCSYSFVEHQIHTGERSYECNCKGKFFKYSANF  
MKHQTVHTSERTYECRECGKSFMYNYRLMRHKRVHTGERPYECNTCGKFFRYSSTFVRHQ  
RVHTGERPYECRECGKFFMDSSTLIKHQRVHTGERPYKNCDCGKFFRYISTLIRHQRIHT  
GERPYECVCGELFRYNSLVKHWRNHTGERPYKCECGKSFYHCRILRHQRVHTGERP  
YECSECGKFFRYNSNLIKHWRNHTGERPYECRECGKAFSHKHILVEHQKIHSGERPYECS  
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>sp|Q9H707|ZNF552\_HUMAN Zinc finger protein 552 OS=Homo sapiens GN=ZNF552 PE=1 SV=2

MAAAALRFPVQGTVTTFEDVAVKFTQEEWNLLSEAQRCLYRDVTLENLALMSSLGCWCGVE

DEAAPSKQSIYIQRETQVTRTPMAGVSPKKAHPCEMCGPILGDILHVADHQGTHHKQKLHR  
CEAWGNKLYDSGNFHQHQNEHIGEKPYRGSVEEALFAKRCKLHVSGESSVFSESGKDFLL  
RSGLLQQEATHTGKSNKTECVSLFHGGKSHYSCGGCMKHFSTKDILSQHERLLPTEEPS  
VWCECGKSSSKYDSFSNHQGVHTREKPYTCGICGKLFNSKSHLLVHQRIHTGEKPYECEV  
CQKFFRHKYHLIAHQRVHTGERPYECSDCGKSFTHSSTFRVHKRVHTGQKPYECSECGKS  
FAESSSLTKHRRVHTGEKPYGCSECEKKFRQISSLRHHQVRVHKRKGL

>sp|Q96NG5|ZN558\_HUMAN Zinc finger protein 558 OS=Homo sapiens GN=ZNF558 PE=2 SV=1

MAAVILPSTAAPSSLFPASQQKGHTQGGELVNELLTSWLRGLVTFEDVAVEFTQEEWALL  
DPAQRTLYRDVMLENCRNLASLGCRVKNPSLISQLEQDKKVTEERGILPSTCPDLETLL  
KAKWLTPKKNVFRKEQSKGVKTERSHRGVKLNECNQCFKVFSTKSNLTQHKRIHTGEKPY  
DCSQCGKSFSRSTYLIHKRIHNGEKPYECNHCQKAFSDPSSRLHLRIHTGEKPYECNQ  
CFHVFRSTCNLKSHKRIHTGENHHECNQCGKAFSTRSSLTGHNSTHTGEKPYECHDCGKT  
FRKSSYLTQHVRTHTGEKPYECNECGKSFSSSFSLTVHKRIHTGEKPYECSDCGKAFNNL  
SAVKKHLRTHHTGEKPYECNHCCKSFTSNSTSVHVKRIHNRWI

>sp|Q8TA94|ZN563\_HUMAN Zinc finger protein 563 OS=Homo sapiens GN=ZNF563 PE=2 SV=1

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RNLRCMVERFSESKDSSQCGETFSLRDSIVNNSICPGEDPCQSAECEEVIMGHLNLNS  
HIRVDSGHKPHHEYQEYGEKPHTHKQRGKAFSYHHSFQSRGRPHTGKKRYECKECKTFSS  
RRNLRRHMMVVQGNRPYKCKLCGAFFWPSLLRMHERTHTGEKPYECKQCSKAFPFYSSY  
RRHERMHTGEKPYECKQCSKALPDSSSYIRHERTHTGEKPYTCKQCGKAFSVSSSLRRHE  
TTHSAEKPYECKQCGKTFHHLGSFQIHMKRHTGDRPHKCKICGKGFDRLVRYHERIHT  
GEKPYECKQCGKTLSSSSFRRHMMHTGGGPHKCKICGKAFVYPSVCQRHEKSHSGEKP  
YECKQCGKALSSSSFRRHMMHTGDGPNKCKVCGKAFVYPSVCQRHEKTHWRETI

>sp|Q8TBZ8|ZN564\_HUMAN Zinc finger protein 564 OS=Homo sapiens GN=ZNF564 PE=1 SV=1

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RILRNHMEGLSESKEYDQCGEAFSQILNLNLNKKIPTIVRPCECSLCGKVMHSSLSR  
HIRSHLGHKPYDYQEYGEKPYCKQCGKAFSSCQSFRRHERTHTGEKPYACECGKAFIS  
LPSVRRHMIKHTGDGPYKQCECGKAFDRPSLFQIHERTHTGEKPYECQEKAFISLPSF  
QRHMIRHTGDGPYKQCECGKAFDRPSLFRIHERTHTGEKPHECKQCGKAFISFTNFQSHM  
IRHTGDGPYKCKVCGRAFI FPSYVRKHHERTHTGEKPYECNCKGKTFSSSSNVRHERTHT  
GEKPYECKECGKAFISLPSVRRHMIKHTGDGPYKQVCGRAFDCPSSFQIHERTHTGEKP  
YECVCGKAFISLKRIRKHMILHTGDGPYKQVCGKAFDCPSSVRHERTHTGEKPYECK  
ECGKAFNYASSIRIHERTHTGEKPYECKQCGKTFSSSSFQRHERAHNGDKPYVKNVGKL  
SFITQPSNTCENE

>sp|Q3ZCX4|ZN568\_HUMAN Zinc finger protein 568 OS=Homo sapiens GN=ZNF568 PE=2 SV=2

MTSQSSVISNSCVTMERLSHMMERKAWCSQESALSEEEEDTTRPLETVTFKDVAVDLTQE  
EWEQMKPAQRNLYRDMLENYSNLVTGCVTKPDVIFKLEQEEEPWVMEEMFGRHCPE  
VWEVDEQIKKQETLVRKVTSISKKILIKEVIECKKVAKIFPLSSDIVTSRQSFYDCDS  
LDKLEHNLDLLRYEKGCVREKQSNFEGKPFYHCASYVTPFKCNQCGQDFSHKFDLIRH  
ERIHAGEKPYECKECGKAFSRKENLITHQKIHTGEKPYKNECGKAFIQMSNLIRHHRH  
TGEKPYACKDCWKAFSQKSNLIEHERIHTGEKPYECKECGKSFSQKQNLIEHEKIHTGEK  
PYACNECGRAFSRMSSTLHMRSHTEKPYKCNKCGKAFSQC SVFIHMRSHTEKPYVC  
SECGKAFSQSSSLTVHMRNHTAEKPYECKECGKAFSRKENLITHQKIHTGEKPYECSECG  
KAFIQMSNLIRHQRIHTGEKPYACTVCGKAFSQKSNLTEHEKIHTGEKPYHCNCGKAFS

QRQNLEHEKIHTGEKPFKCEGKAFSRISLTLHVRSHTEKPYECNKGKAFSQCSL  
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>sp|Q86YE8|ZN573\_HUMAN Zinc finger protein 573 OS=Homo sapiens GN=ZNF573 PE=2 SV=4  
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YRNLVSLGGHSISKPVVVDLLERGKEPWWILREETQFTDLDLQCEIISYIEVPTYETDIS  
STQLQSIYKREKLYECKKCKKFFSSGYQLILHHRFHVIERPYECKECGKNFRSGYQLTLH  
QRFHTGEKPYECTECGKNFRSGYQLTVHQRFHTGEKTYECCRQCGKAFIYASHIVQHERIH  
TGGKPYECQECGRAFSQGGHLRIHQRVHTGEKPYKCKEKGKTFSSRNLVEHGQFHTDEK  
PYICEKCGKAFRRGHLTVHQRVHTGKKPYECKEKGKGYTTASYFLLHQRIHKGKPYEC  
KECKKTFTLYRNLTRHQNIHTGEKLFECKQCGKTYTTGSKLFQHQKTHTEKPYECKEKG  
KAFSLYGYLKQHQKIHTGMKHFECCKEKKFTLYRNLTRHQNIHTGKKLFECQECGKAYS  
TGSNLIQHRKTHTEKPYKCKEKGKTFSLHGYLNQHQKIHTGMKPYECKVCRKTFTFYRN  
LTLHQSIIHTDEKPFECKEKGKTFRRSSHLTAHQSIHADKKPYECKEKGKAFKMYGYLTQH  
QKIHTGGKPYECKEKGKAFSRASNLVQHERIHTGEKPYVCKQCGKTFRYGSALKAHQRIH  
RSIKV

>sp|Q9H609|ZN576\_HUMAN Zinc finger protein 576 OS=Homo sapiens GN=ZNF576 PE=1 SV=1  
MEDPNPEENMKQQDSPKERSPQSPGGNICHLGAPKCTRCLITFADSKFQERHMKREHPAD  
FVAQKLQGVLFICFTCARSPSSKALITHQRSHGPAAKPTLPVATTTAQPTFPCPDGK  
FGQAVSLRRHRQMHEVRAPPGTFACTECQDFAQEAGLHQHYIRHARGEL

>sp|Q8NAF0|ZN579\_HUMAN Zinc finger protein 579 OS=Homo sapiens GN=ZNF579 PE=1 SV=2  
MDPQPPPPAQGSPPHRGRGRGRGRGRGRGRGGAGAPRAPLPCPTCGRLFRFPYLS  
RHRLSHSGLRPHACPLCPKAFRRPAHLSRHLRGHGPPPLRCAACPRTFPEPAQLRRHLA  
QEHAGGEVELAIERVAKETAEPWSGPQDEGSEPPTAAAGATEEEAFAAWPETWPAGEPS  
TLAAPTSAAPRESESEAEAGAAELRAELALAAGRQEEKQVLLQADWTLLCLRCREAF  
TKGELKAHPCLRPEGEQEGEGGPPPRKRHQCSICLKAFARPWSLSRHLVHSTDPRPVC  
PDCGLAFRLASYLRHRRVHGPLSLLAPLPAAGKKDDKASGARNSAKPEGGEAECGGA  
SEGGEQNGGDAAPARPPAGEPRFWCECGKGFRRRAHLRQHGVTHSGARPFQCVRCQRE  
FKRLADLARHAQVHAGGPAPHPPCRPRRFSRAYSLLRHQRCHRAELERAAALQALQAQA  
PTSPPPPPPLKAEQEEGLPLPLANIKEPPSPGTPPQSPAPPVFLSASCFDSQDHS  
FEMEEEEVDKAHLRGLGLAS

>sp|Q9P0T4|ZN581\_HUMAN Zinc finger protein 581 OS=Homo sapiens GN=ZNF581 PE=1 SV=1  
MLVLSPSPCPQLAFSSVETMEGPPRRTCRSPEPGPSSSIGSPQASSPPRPNHYLLIDTQG  
VPYTVLVDEESQREPGASGAPGQKKCYSCPVCSRVEYMSYLRHSITHSEVKPFECDIC  
GKAFKRASHLARHHSIHLAGGGRPHGCPLCPRRFRDAGELAQHSRVHSGERPFQCPHCPR  
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>sp|Q96NL3|ZN599\_HUMAN Zinc finger protein 599 OS=Homo sapiens GN=ZNF599 PE=1 SV=1  
MAAPALALVSFEDVVVTFTEGEWGHDLAQRTLYQEVMLETCRLLVSLGHPVPKPELIYL  
LEHGQELWTVKRGLSQSTCAGEKAKPKITEPTASQLAFSEESSFQELLAQRSSRDSRLGQ  
ARDEEKLIKIQEGLRPGTNPHKEICPEKLSYKHDDLEPDDSLGLRVLQERVTPQDALHE  
CDSQGPCKDPMTDARNNPYTCTECGKGFSKKWALVRHQQIHAGVKPYECNEGKACRYMA  
DVIRHMLHTGEKPYKIECGKAFKRRFHLTEHQRIHTGDKPYECKEKGKAFTHRSSFQ  
HNMTHTREKPFCKEKGKAFYSSSFAQHMRITGKKLYECGECGKAFTHRSTFIQHNVT  
HTGEKPFCKEKGKTFCLNSSFTQHMRITGEKPYECGECGKAFTHRSTFIRHKRTHTE  
KPFECKEKGKAFCDSSSLIQHMRITGEKPYECSECGKAFTHHSVFIHRNRTHSGQKPLE



CKECAKAFYYSSSFTRHMRHTGEKPVVCRECGKAFTQPANFVRHNRHTGEKPFECKEC  
EKAFCDNFALTQHMRHTGEKPFECNECGKTFSSSSSFTHHRKIHTRV

>sp|Q8WXB4|ZN606\_HUMAN Zinc finger protein 606 OS=Homo sapiens GN=ZNF606 PE=2 SV=1

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PVTFKDVAVDFTQEEWGQLDLVQRTLYRDVMLETYGHLLSVGNQIAKPEVISLLEQGEEP  
WSVEQACPQRTCPWVRNLESKALIPAQSIFEEEQSHGMKLERIYIWDWPWFSRLEVLGCK  
DQLEMYHMNQSTAMRQMVFMQKQVLSQRSSEFCGLGAEFSQLNLFVPSQRVSQIEHFYKP  
DTHAQSWRCDSAIMYADKVTCENNDYDKTVYQSIQPIYPARTQTDNLFKCTDAVKSFNH  
IIHFGDHHGIHTGEKLYEYKECHQIFNQSPSFNEHPRLHVGENQYNYKEYENIFYFSSFM  
EHQKIGTVEKAYKYNEWKVFYDGSFLTQHTSTYTAEKPYDYNECGTSFIWSSYLIQHKK  
THTGEKPYECDKCGKVFNRNSALTKHERHTGKPYECNCGKAFSWNSHLIVHKRIHTG  
EKPYVCNECGKSFNWSHLIGHQRHTGEKPFECTECGKSFSWSSHLIAHMRMHTGEKPF  
KCDECEKAFRDYSALSKHERTHSGAKPYKCTECGKSFSWSSHLIAHQRHTGEKPYNCQE  
CGKAFRERSALTKHEIIHSGIKPYECNCGKSCSQMAHLVRHQRHTGEKPYECNCGKS  
FSQSCHLVAHRRHTGEKPYKCNQCERSFNCSSHLIAHRRHTGEKPYRCNECGKAFNES  
SSLIVHLRNHTGEKPYKCNHCEKAFCKNSSLIHQRMHSGEKRFICSECGKAFSGHSALL  
QHQRNHSEEKLN

>sp|O15014|ZN609\_HUMAN Zinc finger protein 609 OS=Homo sapiens GN=ZNF609 PE=1 SV=2

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VQGRSGDGANAGGLVAAIAPKGSEKAAKASRSVAGSKKEKENSSSKSKKERSEGVGTCSE  
KDPGVLQPVPLGGRGGQYDGSAGVDTGAVEPLGSIAIEPGAALNPLGTKPEPEEGENECR  
LLKKVKSEKMESPVSTPAVLPIHLLVPVNNDISSPCEQIMVTRSVGVNTCDVALATEP  
ECLGPCPGTSVNLEGIVWQETEDGMLVVNVNWTWRNKTYVGTLLDCTRHDWAPPRFCDSP  
SDLEMRNGRGRKMRPNSTPNVNETATASDSKGTSSSKTRAGANSKGRRGSQNSSEHR  
PPASSTSEVDKASPSANKRKNKPLSDMELNSSSEDSKGSKRVRTNSMGSATGPLPGTKV  
EPTVLDRCNCPSPVLIDCPHPNCNKYKHINGLYHQAHAHTDDDSKPEADGDSEYGEEP  
LHADLGSCNGASVSQKGLSPARSATPKVRLVEPHSPSPSSKFSTKGLCKKKLSGEGDTD  
LGALSNDGSDGSPVMDTSNDAFDSLRLKCKMEKEKCKPSSLKPEKIPSKSLKSARPIA  
PAIPPQQIYTFQTATFTAASPGSSSGLTATVAQAMPNSPQLKPIQPKPTVMGEPFTVNPA  
LTPAKDKKKDKKKKESSKELESPLTPGKVCRAEKGKSPFRESSGDGMKMEGLNGSSDP  
HQSRLASIKAEADKIYSFTDNAPSPSIGGSSRLNTTPTQPLTPLHVVTQNGAEASSVKT  
NSPAYSDISDAGEDGEGKVDSVKSDAEQLVKEGAKKTLFPPQPQSKDSPYYQGFESYYS  
PSYAQSSPGALNPSSQAGVESQALKTKRDEEPESIEGKVNDICEKKPELSSSSQQPSV  
IQQRPNMYMSLYNQYAYVPPYGYSDQSYHLLSTNTAYRQQYEEQKQKRSLEQQQQRG  
VDKKAEMGLKEREALKEEWKQKPSIPPTLTKAPSLTDLVKS GPKAKEPGADPAKSVII  
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WTYVYPAKYSDIKSEDERWKEERDRKLKEERSRSKDSVPKEDGKESTSSDCKLPTSEESR  
LGSKEPRPSVHVPVSSPLTQHQSYPYMHGYSYSQSYDPNHPYSRMPAVMMQNYPGSYL  
PSSYSFSPYGSKVS GGEDADKARASPSVTCKSSSESKALDILQQHASHYKSKSPTISDKT  
SQERDRGGCGVVG GGGSCSSVGGASGGRSVDRPRTSPSQRLMSTHHHHHHLGYSLLPAQ  
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>sp|Q08AN1|ZN616\_HUMAN Zinc finger protein 616 OS=Homo sapiens GN=ZNF616 PE=2 SV=2

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ENSNTGERFQTVALERHQSYDIENLYFREIQKHLHDLFQWKDGETNDKEVPVPHENNL  
TKGRDQHSQGDVENNHIEQLTSNFESRLAELQKVQTEGRLYECNETEKTGNNGCLVSPHI  
REKTYVCNECGKAFKASSSLINHQRHTTEKPYKNECGKAFHRASLLTVHKVVHTRGKS  
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AAHQRIHTGEKPYKNECGKVFSQHSRLAVHRRHTGEKPYKCKEKGKVFSDRSARHR  
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GEKPYKCKEKGKAFNQGSTLNRHQRIHTGEKPYKCNQCGNSFSQRVHLRLHQTVHTGDRP  
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>sp|075123|ZN623\_HUMAN Zinc finger protein 623 OS=Homo sapiens GN=ZNF623 PE=2 SV=2  
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GNPEGQSLGSSPSQDRGCKQVTVTHWKIQTGETAQVCTKSGRNHILNSDLLLLQRELIEG  
EANPCNICGKTFTFNSDLVRHRISHAGEKPYTCDQCGKGFGQSSHLEHQRIHTGERLYV  
CNVCGKDFIHYSGLIEHQRVHSGEKPFKCAQCGKAFCHSSDLIRHQRVHTRERPFECKEC  
GKGFSQSSLLIRHQRIHTGERPYECNECGKSFIRSSSLIRHYQIHTEVKQYECKEKGKAF  
RHRDLIEHQRIHTGERPFECNECGKAFIRSSKLIHQRIHTGERPYVCNECGKRFSQTS  
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HQKIHSGRDPFECKDCGKAFIQSSKLLLHQI IHTGEKPYVCSYCGKGFQIRSNFLQHQKI  
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>sp|Q96I27|ZN625\_HUMAN Zinc finger protein 625 OS=Homo sapiens GN=ZNF625 PE=1 SV=1  
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YQEYQKPYKCTYCKAFSDLPYFRTHEWAHTGGKPYDCEECKGSFISRSSIRHRIMHS  
GDGPYKCNFCGKALMCLSLYL IHKRTHTGEKPYECKQCGKAFSHSGSLRIHERHTHTGEKP  
YECSECGKAFHSSTCLHAHKITHTEKPYECKQCGKAFVFSNSVRYHERHTHTGEKPYECK  
QCGKAFRSASHLRTHGRHTHTGEKPYECKQCGKAFGCASSVKIHERHTHTGEKPCSSNTSKG  
QGEKIA

>sp|Q9H582|ZN644\_HUMAN Zinc finger protein 644 OS=Homo sapiens GN=ZNF644 PE=1 SV=2  
MRSFLQQDVNKTSLNLVNLGLANNMDDLKINTDITGAKEELLDDNNFISDKESGVHKKP  
DCQTSFQKNNLTLPEELSKDKSENALSGGQSSLF IHAGAPTVSSENFILPKGAAVNGPV  
SHSSLTKTSNMNKGVSLLTTGQPDQPTTESCSTLKVAADLQLSTPQKASQHQVLFLLSD  
VAHAKNPHTSNKKLPTSASVGCIDIQNSVGSNIKSDGTLINQVEVGEDGEDLLVKDDCVNT  
VTGISSGTDGFRSENDTNWDPQKEFIQFLMTNEETVDKAPPHSKIGLEKKRKRKMDVSKI  
TRYTEDCFSDSNVCPNKSQMVEVDFLEQNEELQAVDSQKYALSKVKPESTDEDLESVDAF  
QHLLIYNPDKGEESPVHTSTFLSNTLKKKCEESDSESPATFSTEEPSFYPTKCNVNR  
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LKKHTEYLHSSSCVDSFGSPLGLDKRNDILEEPVDSSTKTLTKQQSTTFPKNSALKQD  
VKRTFGSTSQSSSFSKIHKRPHRIQKARKSIAQSGVMCNQNSSPHKNVTIKSSVDQKPK  
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EPGENATLSYDQNDGFYFEYEDTGSNNFLHEIHDPQHLETADASLSKHSSVFHWTDLSL  
EKKSCPYCPATFETGVGLSNHVRGHLHRAGLSYEARHVVSPEQIATSDKMQHFKRTGTGT  
PVKRVKAIEKSETTSEHTCQLCGGWFDTKIGLSNHVRGHLKRLGKTKWDAHKSPICVLN  
EMMQNEEKYEKILKALNSRRIIPRPFVAQKLASSDDFISQNVIPLEAYRNGLKTEALSVS  
ASEEEGLNFLNEYDETKPELPSGKKNQSLTIELLKNKRMGEERNSAISPQKIHNQTARK  
RFVQKCVLPLNEDSPLMYQPQKMDLTMHSALDCKQKKSRSRSGSKKKMLTLPHGADDEVYI  
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LMAEAAAS

>sp|Q8N720|ZN655\_HUMAN Zinc finger protein 655 OS=Homo sapiens GN=ZNF655 PE=1 SV=3  
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KISEEVHSYKVRVGRGLKHDITQVPETREYKSEDRLERLQEILRKFLYLEREFRQITISK  
ETFTSEKNECHEPEKSFSLDSTIDADQRVLRITQNTDDNDKYDMSFNQNSASGKHEHLNL  
TEDFQSSCEKESLMDLSHLNWKESIPNTEKSYKCDVCGKIFHQSSALTRHQRIHTREKPY  
KCKECEKSFSQSSSLSRHKRIHTREKPYKCEASDKSCEASDKSCSPSSGIIQHKKIHTRA  
KSYKCSSCERVFSRSVHLTQHQQIHKEMPCKCTVCGSDFCHTSYLLEHQRVHHEEKAYEY  
DEYGLAYIKQQGIHFREKPYTCECGKDFRLNSHLIQHQRIHTGEKAHECNECGKAFSQT  
SCLIQHHKMHRKEKSYECNEYEGSFSSHSDILQQEVLTRQKAFDCDVWEKNSSQRAHLV  
QHQS IHTKENS

>sp|Q5HYK9|ZN667\_HUMAN Zinc finger protein 667 OS=Homo sapiens GN=ZNF667 PE=2 SV=2  
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NVITLLEKKGKAPWMVEPVRRRRRAPDSGSKCETKKLPPNQCNKSGQSICQKLVSAAQQKAPT  
RKSGCNKNSVLVKKPKGHSGKKPLKCNDCGKTFRSFSLKLHQNHTGEKPFECNSCRKA  
FRQISSILLHQRIHSGKKSHECNKCGESFNQRTTLILHMRIHGKEILDCGKALSQCQSF  
NIHQIHHVGVNVCQCRKCGKAFNQMSLLLHKKIHNGKTKHKYNKCGRGFKKKS FVVHK  
RIHAGEKIPENAKALSQSLQQRSHLENPFKCRKCGKLFNRISPLMLHQRIHTSEKPYKC  
DKCDKFFRRLSTLILHLRIHNGEKLYRCNKCEKVCNRHSSLIQHQQVHTKKKKLFECKEC  
GKMFGTANLKIHNHSEEKPFKCNKSKVFRQSFLEHQRIHTGEKPYQCEECGKAF  
SHRISLTRHKRIHTEDRPYECDCGKAFSQSAHLAQHERIHTGEKPYTCKTCGKAFSQRT  
SLILHERSHTGEKPYECNECGKAFSSGSDLIRHQRSHSSEKPYECSKCGKAYSRSSSLIR  
HQNTHSEEKA

>sp|Q96K58|ZN668\_HUMAN Zinc finger protein 668 OS=Homo sapiens GN=ZNF668 PE=1 SV=3  
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ETEAKAEAEASGEKVSAAKPRPYACPLCPKAYKTAPELRSHGRSHTGEKPFPCPECGRR  
FMQPVCLRVHLASHAGELPFRAHCPKAYGALSKLKHQRGHTGERPYACADCGKSFADP  
SVFRKHRRTHAGLRPYSCERC GKAYAELKDLRNHERSHTGERPFLCSECGKSFSRSSSLT  
CHQRIHAAQKPYRCPACGKGFTQLSSYQSHERTHSGEKPFPCRCGRMFSDPSSFRRHQR  
AHGVKPYHCEKCGKDFRQPADLAMHRRVHTGDRPFKCLQCDKTFVASWDLKRHALVHSG  
QRPFRCCECGRAFAERASLTKHSRVHSGERPFCNACGKS FVVSSSLRKHERTHRSSEAA  
GVPPAQELVVGLALPVGVAGESSAAPAGAGLGDPAGLLGLPPESGGVMATQWQVVGMT  
VEHVECQDAGVREAPGLEGAGEAGGEEADEKPPQFVCRECKETFSTMTLLRRHERSHPE  
LRPFPTQCGKSFSDRAGLRKHSRTHSSVRPYTCPHCPKAFLSASDLRKHERTHPVPMT  
PTPLEPLVALLGMPEEGPA

>sp|Q96BR6|ZN669\_HUMAN Zinc finger protein 669 OS=Homo sapiens GN=ZNF669 PE=2 SV=2  
MVSGRLASRSGEEGWLKPAVARLGPPRHRLNLRTESPWRSRGSVLFCSGPGRAGRAAE  
PLHPVCTCGRHFRPEPCREPLASPIQDSVAFEDVAVNFTQEEWALLDSSQKNLYREVMQ  
ETCRNLASVGSQWKDQNIEDHFEKPGKDIRNHIVQRLCESKEDGQYGEVVSQIPNLDLNE  
NISTGLKPCECSICGKVFVRHSLNLRHILAHSGYKPYGEKQYKCEQCGKFFVSVPGVRRH  
MIMHSGNPAYKCTICGKAFYFLNSVERHQRTHHTGEKPYKCKQCGKAFVSGSCLIHERTH  
TGEKPYECKECGKTRFRFSCSKTHERHTGERPYKCTKCDKAFSCSTSLRYHGSHTGER  
PYECKQCGKAFSRLSSLCNHRSTHTGEKPYECKQCDQAFSRLSSHLHERIHTGEKPYEC  
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>sp|Q5SXM1|ZN678\_HUMAN Zinc finger protein 678 OS=Homo sapiens GN=ZNF678 PE=2 SV=1  
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LDNLHLVKDWRTVNEGKGQKEYCNRLTQCSSTKSKIFQCIEGRNFSWRSILTEHKRIHT  
GEKPYKCEECGKVFNRCSNLTKHKRIHTGEKPYKCECGKVFNWWSQLTNHKKIHTGEKP  
YKCECDKVFNWWSQLTSHKKIHSGEKPYPCIECGKAFVSNLTQHKRIHTGEKPYKCK  
ECCAFNKFNSLTQHKRIHTGEKPYKCECGNVFNECSHLTRHRIHTGEKPYKCEECGK  
AFTQFASLTRHKRIHTGEKPYKCECGKTFNRCSHLSSHRIHTGEKPYKCEECGRFTFTQ  
FSNLTHHKRIHTGEKPYKCECGKAFNKFSSLTQHRRIHTGVKPYKCEECGKVFKQCSHL  
TSHKRIHTGEKPYKCECGKAFYQSSILSKHKRIHTEKPYKCEECGKAFNQFSSLTRHK  
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>sp|Q8NEM1|ZN680\_HUMAN Zinc finger protein 680 OS=Homo sapiens GN=ZNF680 PE=2 SV=2  
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LITCLEQGKEPWNRRKQEMVAKPPVIYSHFTEDLWPEHSIKDSFQKVILRGYKCGHENL  
QLRISCKSVDESKVFKEGYNELNQCLRTTQSKIFQCDKYVKVFHKFSNSNSHKKRNTGKK  
VFKCECGKSFCMLSHLTQHRIHTRENSYKCEECGKVLNWFSELIKHKGIMGEKPYKC  
EECGKAFNQSSTLIKHKIHIIEKPFKCEECGKAFSLFSLSKHKIHTGDKPYKCECH  
KAFNWFATLTNKHRIHTGEKPFKCEECGKDFNQFSNLTKHKIHTGEKPYKCEECGKAFN  
QFANLTRHKIHTGEKSYKCEECGKAFIQSSNLTEHMRHTGEKPYKCEECGKAFNGCSS  
LTRHKRIHTRENTYKCEECGKFTLFTSLTNHKVIHTGEKSYKCECGNVFNWNPATLANH  
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>sp|Q5T5D7|ZN684\_HUMAN Zinc finger protein 684 OS=Homo sapiens GN=ZNF684 PE=2 SV=1  
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EQGQEPWMVEGANPHESSPESDYPLVDEPGKHRESKDNFLKSVLLTFNKILTMERIHHYN  
MSTSLNPMRKKSYSFEKCLPPNLDLLKYNRSYTVENAYECSECGKAFKKKFHFIRHEKN  
HTRKKPFECNDCGKAYSRAHLATHQKIHNGERPFVCNDCGAFMHKAQLVVHQRLHTGE  
KPYECSQCGKTFTWNSSFNQHVKSHTLEKSFECKECGKTFRYSSSLYKHSRFTGEKPYQ  
CIICGKAFGNTSVLVTHQRIHTGEKPYSCIECGKAFIKSHLLRHQITHTEKPYECNRC  
GKAFSQKSNLIVHQKIHT

>sp|Q8N1G0|ZN687\_HUMAN Zinc finger protein 687 OS=Homo sapiens GN=ZNF687 PE=1 SV=1  
MGDMKTPDFDLLAAFDIPDIDANEAIHSGPEENEGPGGPGKPEPGVGESEDTAAASAG  
DGPVPAQASDHGLPPPDISVSVIVKNTVCPEQSEALAGGSAGDGAQAAGVTKEGPVGP  
HRMQNGFGSPEPSLPGTPHSPAPPSGGTWKEKGMGKTPLDLFAHFGPEPGDHSPLPPS  
APSPTRREGALTPPPFPSSFELAQENPGMQPPVSSPPLGALKQESCSPHHPQVLAQQGSG  
SSPKATDIPASASPPVAGVPFFKQSPGHQSPLASPKVPVCPLKEEDDDEGPVDKSSPG  
SPQSPSSGAEEADESDNSPASSSSRPLKVRIKTIKTCGNITRTVTQVPSDPDPPAPLA

EGAF LAEASLLKLSPATPTSEGPKVVSQVQLGDGTRLKGTLPVATIQNASTAMLMAASVA  
RKAVVLPGGTATSPKMIAKNVGLVPQALPKADGRAGLTGGQKVN GASVVMVQPSKTAT  
GPSTGGGTVISRTQSS LVEAFNKILNSKNLLPAYRPNLSPPAEAGLALPPTGYRCLECGD  
AFSLEKSLARHYDRRSMRIEVTCHNCARRLVFFNKCSLLHAREHKDKGLVMQC SHLVMR  
PVALDQMVGPDITPLLPVAVPPVSGPLALPALGKGEGAITSSAITTVAAEAPVLP LSTE  
PPAAPATSAYTCFRCLECKEQCRDKAGMAAHFQQLGPPAPGATSNVCPTCPMMLPNRCSF  
SAHQRMHKNRPPHVCPECGNFLQANFQTHLREACHVSRRVGYRCPSCSVVFGGVNSIK  
SHIQTSHCEVFHKCPICPMAFKSGPSAHAHLYSQHPSFQTQQA KLIYKCAMCDTVFTHKP  
LLSSHFDQHLLPQRVSVFKCPSCLLFAQKRTMLEHLKNTHQSGRLEETAGKGAGGALLT  
PKTEPEELAVSQGGAAPATESSSSSEEEVPSSPEPPRPAKRPRRELGSKGLKGGGGGP  
GGWTCGLCHSWFPERDEYVAHMKKEHGKSVKKFPCRLCERSFCSAPSLRRHVRVNH EGIK  
RVYPCRYCTEGKRTFSSRLILEKHVQVRHGLQLGAQSPGRGTTLARGSSARAQGPGRKRR  
QSSDSCSEEPDSTTPPAKSPRGGPGSGGHGPLRYRSSSSTEQSLMMGLRVEDGAQQCLDC  
GLCFASPGSLSRHRFISHKKRRGVGKASALGLGDGEEEAPPSRSDPDGGSPLPASGGPL  
TCKVC GKSCDSPLNLKTHFRTHGMAFIRARQGA VGN

>sp|Q8IW36|ZN695\_HUMAN Zinc finger protein 695 OS=Homo sapiens GN=ZNF695 PE=1 SV=4

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KPELIICLEARKEPWNVNTektARHsvLSSyLTEDILPEQGLQVSFQKVMLRRYERCCLE  
KLRLRNDWEIVGEWKQKASyngLDLCSATTHSKNFQCNKCVKGFSKFANLNKCKISHTG  
EKPFKCKE CNGVSCMSLIMTQQQRIHIGENPYQCKKCGKAFNECSCFTDCKRIHVGEKHC  
KCEECNIFKSCSLAVVEKNHTEKKTyrCEE CGKAFNLCSVLTkhkKIHTGEKPYKCEE  
CGKSFKLFPYLTQHkRIHSREKPYKCEE CGKVFKLsyLTQHRRiHTGEKTFRCEE CGKA  
FNQSSHLTEHRRiHTGEKPYKCEE CGKAFTWFSyLIQHkRIHTGQKPYKCEE CGKAFTWF  
syLTQHkRIHTGEKPYKDECGKAFNWFSyLTNHkRIHTGEKPYKCEE CGKAFGQSSHLs  
KHkTIHTREKPYKCEE CGKAFNHSAQLAVHEKTHt

>sp|Q6ZNC4|ZN704\_HUMAN Zinc finger protein 704 OS=Homo sapiens GN=ZNF704 PE=1 SV=1

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RKVVSSNIDVPPARKSSEELMDKVTAAMVLTSLSTSPLVRSPVVRPNESLSGSWKEGGC  
VPSSTSSSGYWSW SAPSDQSNPSTSPPLSADSFKPFRSPAQPDDGIDEAEASNLLFDEP  
IPRKRKNSMKVMFKCLWKNCGKVLSTAAGIQKHIRTihLGRVGDSDYSDGEEDFYYTEIK  
LNTDSVADGLSSLAPVSPS QSLASPPTFPIPDSSRTETPCA KTETKLTPLSRSAPTLY  
LVHTDHAYQATPPVTIPGSAKFTPNGSSFSISWQSPPVTF TGIPVSPTHHPVGTGEQRQH  
AHTVLSPPRGTVSLRKPRGEGKKCRKVYGMENRDMWCTACRWKKACQRFLD

>sp|A6NNF4|ZN726\_HUMAN Zinc finger protein 726 OS=Homo sapiens GN=ZNF726 PE=2 SV=4

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DECKVHKEGYngLNQCFTTTQGKASQCGKYLKVfyKFInLNryKIRHTRKKPFKCKNCVK  
SFCMFShkTQHkSIYtTEKsyKCECGKTFNWSSTLTNHkKTHTEEKPYKCEEYGKAFNQ  
SSNYTHKVTHTGEKPYKCEE CGKAFSQSSTLTiHKRIHTGEKPKCEE CGKAFSQPSAL  
TiHKRMHIGEPYKCEE CGKAFVWSSTLTRHKRLHSGEKPYKCEE CAKAFSQFGHLTHR  
IiHTGEKPYKCEE CGKAFIWPSTLTkhkRIHTGEKPYKCEE CGKAFHRSSNLTKhKIHT  
GEKPYKCEE CGKAFIWSNLTEHkKIHTREKPYKCEE CSKAFSRSSALTTHKRMHTGEKP  
YKCEE CGKAFQSSTLTAHKIiHTGEKPYKCEE CGKAFILSSTLSKhkRIHTGEKPYKCE  
ECGKTFNQSSNLSThKIiHTGEKPYKCEE CGKAFNRSSNLSThKIiHTGEKPYKDECGK

SFIWSSTLFKHKRIHTGEKPYKCEECGAFNHSQILLHIRHKRMHTGEKPYKCEECGKSF  
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>sp|B4DX44|ZN736\_HUMAN Zinc finger protein 736 OS=Homo sapiens GN=ZNF736 PE=2 SV=2  
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EPWKVKRQEAVAKHPAGSFHFTAEILPDHDIKDSFQKVILRKYGSCDLNNLHLKKDYQSV  
GNCKGQKSSYNGLHQCLSATHSKTCQCNKCGRGFQLCSIFTEHKDIFSREKCHKCEECGK  
DCRLFSDFTRHKKIHTVERCYKCEECGAFKKFSNLTEHKRVHTGEKPYKCEGCGKTFTC  
SSTLVKHKRNHTGDRPYKCEECGAFKCFSDLTNHKRIHTGEKPYKCEECNKAYRWFSDL  
AKHKIHTGDKPYTCNECGKAFKWFSALSCHKRIHTGEKPYICEECGKAFTRSSTLFNHK  
RIHMEERPYPKCEESKTFKCFSDLTNHKRIHTGEKPYKCEECGKASSWFSHLIRHKRIHT  
REKLHKC

>sp|Q7L2R6|ZN765\_HUMAN Zinc finger protein 765 OS=Homo sapiens GN=ZNF765 PE=1 SV=2  
MALPQGLLTFRDVAIEFSQEWEKCLDPAQRTLYRDVMLENYRNLVSLDISSKMMKEFSS  
TAQGNREVFHAGTSQRHESHNGDFCFQDIDKDIHDFQWQEDERNGHEALMTKIKKLT  
GSTERYDQNYAGNKPVKYQLGFSFHSHPHIFHTEEKIDNQVVKSIHDASLVSTAQRI  
SCRPTHISNDYGNFLNSSLFTQKQEVHMRKSFQCNDSGKAYNCSSLLRKHQLIHLGE  
KQYKCDICGVFNSKRYVARHRRCHTGEKPYKNECGKTSQTYLTCHRRLHTGEKPYK  
CEECDKAFHFKSKLQIHRRIHTGEKPYKNECGKTSQKSYLTCHRRLHTGEKPYKNEC  
GKTFSRKSHFTCHHRVHTGEKPYKNECSKTSFSKSSLYHRRLHTEKPYKNECGKTF  
NQQLTLNLCRLHSGEKPYKCEECDKAYSFKSNLEIHQKIHTENPYKNECGKTSRTSS  
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>sp|Q6IQ21|ZN770\_HUMAN Zinc finger protein 770 OS=Homo sapiens GN=ZNF770 PE=2 SV=1  
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KQEKSMYGVYNTFTTEERWALHPCSKSDPMYSMKRRKNIHACTICGMFSPSQSKLDRHVL  
IHTGQRPFKCVLCTKSFRQSTHLKIHQLTHSEERPFCQCFQKGFKIQSKLLKHKQIHTR  
NKAFRALLLKKRRTESRPLPNKLNANQGGFENGEGEISEENNPLDVHSIYIVPFQCPKCE  
KCFESEQILNEHSCFAARSGKIPSRFKRSYNYKTIVKKILAKLKRASKKLDNFQSEKKV  
FKKSFLRNCDLISGESSEQTQRTFVGSGLGKHGTYKTIGNRKKKTLTLPFSWQNMGKNLK  
GILTTHENILSIDNSVNKKDLSICGSSGEEFFNCEVLQCGFSVPRENIRTRHKICPCDKC  
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NFNLSNHSGNNVYNASQQCQAPGVQKYEVSQDMSGVKAESQDFIPGSTGQPCLPNV  
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>sp|Q9Y2P0|ZN835\_HUMAN Zinc finger protein 835 OS=Homo sapiens GN=ZNF835 PE=2 SV=2  
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PRTISSPAATQASVPDDSSSRCSAPGESPKERHPDSRQRERGGGPKKPWKCDCGKAFFS  
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LASHWRTHTEKPHRCADCGKAFTRVTHLTQHRRVHTGERPYACAQCAKAFAFRNRSSLIEH  
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TGEKPYTCQDCGALFSQSASLAEHRIHTGEKPYACGQCAKAFTQVSHLTQHQRTHTGER  
PYPCHDCGKRFSNRSHLLQHRLVHTGERPYRCLQCGAASFHVSSLIEHQKIHTGERPYKC  
GECGKAFFSQSSALHQRTHTGERPYTCPECGKAFFSNRSYLIQHIVHTGEKPYECSGCG

KAFSFSALIRHQRTHADSSGRLCPAPTPDSTPGLSQGETCQQGCPGRNPRGPAED

>sp|A8K0R7|ZN839\_HUMAN Zinc finger protein 839 OS=Homo sapiens GN=ZNF839 PE=2 SV=1

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TEKLKSLKVKTRSGRVSRPPKYKADYKFIKTEDLADGHLSDSDDYSELCVEEDEDQRE  
RHAFDLSSCSLRPKSFKCQTCEKSYIGKGLARHFKNLPGHGQLDPEMVLSEKASGSTL  
RGCTEERTLSLTSLGLSMPADPCEGGARSCLVTESARGGLQNGQSVDEETLPSEPENGA  
LLRSERYQGPRRRACSETLAESRTAVLQQRRAAQLPGGPAAAGEQRASPSKARLKEFLQQ  
CDREDLVELALPQLAQVVTVYEFLLMKVEKDHLAKPFFPAIYKEFEELHKMVKKMCQDYL  
SSSGLCSQETLEINNDKVAESLGITEFLRKKEIHPDNLGPKHLSRDMDGEQLEGASSEKR  
EREAEEGLASVKRPREALSNDTTESLAANSRGREKPRPLHALAAGFSPPVNVTVSPRS  
EESHTTTVSGNGSVFQAGPQLQALANLEARRGSIGAALSSRDVSGLPVYAQSGEPRRLT  
QAQVAAFPGENALEHSSDQDTWDSLRSFGCSPLSSGGGAESLPPGGPGHAEAGHLGKVC  
DFHLNHQQPSPTSVLPTEVAAPPLEKILSVDSVAVDCAYRTVPKPGPQPGPHGSLLTEGC  
LRSLSGDLNRFPCGMEVHSGQRELESVVAVGEAMAFEISNGSHELLSQGQKQIFIQTSDG  
LILSPPGTIVSQEEDIVTVTDAEGRACGWAR

>sp|Q6ZN19|ZN841\_HUMAN Zinc finger protein 841 OS=Homo sapiens GN=ZNF841 PE=2 SV=1

MLEGHESYDTENFYFREIRKNLQEVDFQWKDGEINYKEGPMTHKNNLTGQVRVHSQGDVE  
NKHMENQLILRFQSGLGELQKFQTAEKIYGCNQIERTVNNCFLASPLQRIFPGVQTNISR  
KYGNDFLQLSLPTQDEKTHIREKPYIGNECGKAFRVSSSLNHQMIHTTEKPYRCNESGK  
AFHRGSLLTVHQIVHTRGKPYQCDVCGRIFRQNSDLVNHRHSHTGDKPYICNECGKSFSK  
SSHLAVHQRIHTGEKPYKCNRCGKCFSSQLATHQTVHTGDKPYKNECGKTFKRNSL  
TAHHI IHAGKKPYTCDVCGKVIFYNSQLVRHQI IHTGETPYKNECGKVFFQRSRLAGHR  
RIHTGEKPYKNECGKVFSQSHSLAVHQRVHTGEKPYKNECGKAFNWGSLLTVHQRIHT  
GEKPYKCNVCGKVFNYYGGLSVHMRCHTGEKPLHCNKGCMVFYYSCLARHQMHTGEKP  
YKCNVCGKVFIIDSGNLSIHRRSHTGEKPFQNECGKVFSYYSCLARHRKIHTGEKPYKCN  
DCGKAYTQRSSLTKHLVIHTGENPYHCNEFGAEFIQSSKLARYHRNPTGEKPHKCSECGR  
TFSHKTSLVYHQRRHTGEMPYKCIIEGKVFNSTTLARHRRIHTGEKPYKNECGKVFRY  
RSLGARHWSIHTGEKPYKNECGKAFRVRSILLNHQMMHTGEKPYKNECGKAFIERSNL  
VYHQRNHTGEKPYKMECGKAFGRRSCLTKHQRIHSSEKPYKNECGKSYISRSGLTKHQ  
IKHAGENLTTKLNVRLDVLVLTSGIPK

>sp|Q8N446|ZN843\_HUMAN Zinc finger protein 843 OS=Homo sapiens GN=ZNF843 PE=1 SV=1

MRSPLPALTVESVSARAPTCCSTGRFTQGRQPCCKACGRGFTQSASLLQHWVRVHSDWRE  
TSLSLPVRQDLLWPLQPHQAPASPLGRSHSSAGVRQGFSGQLCCWLTKEHTLAEALRLSP  
VPAGFWGPVEADRPANSHRRVCPFCCSCGDSVNEKTSLSQRVLPHPGEKTCRGGSVES  
VSLAPSSVAPDSTGLRPCGSPGSFLQHLPPSTLLPRPPFLYPGPPLSLQPLVPSGLPAV  
PAVPLGGLEVAQVPPATQPAAQQEGAMGPRSCASAGRDSREAVQAPGYEPARKASQHRA  
AGPLGEARARLQRQCRAPPPPSNPHWRGALPVFPVWKASSRRSNLARH

>sp|Q147U1|ZN846\_HUMAN Zinc finger protein 846 OS=Homo sapiens GN=ZNF846 PE=1 SV=2

MDSSQHLVTFEDVAVDFTQEEWTLDDQAQRDLRYRDVMLENYKNLI ILAGSELFKRSLMSG  
LEQMEELRTGVTGVLQELDLQLKTGSPLLQDISAERSPNGVQLERSNTAEKLYDSNHSG  
KVFNEHPFLMTHMITHIGEKTSEDNQSGKALRKNFPHSFYKKSHAEGKMPKCVKHEKAFN  
QFPNLTRQNKTHTQEKLCCEKDCWRTFLNQSSLKLHIRSHNGDKHYVCKEKGKAFSSSH  
LIGHGRIHSGEKPYVCKEKGKAFQTSTGLKLHIRTHSGEKPYKCKEKGKAFTHSSYLTDH





MAAVSPTTRCQESVTFEDVAVVFTDEEWSRLVPIQRDLYKEVMLENYSIVSLGLPVPQP  
DVIFQLKRGDKPMMVDLHGSEEREWPESVSLDWETKPEIHDASDKKSEGLRECLGRQSP  
LCPKFEVHTPNRGMGTEKQSPSGETRKSLSRDKGLRRRRSALSREILTKERHQECSDCG  
KTFFDHSSLTRHQRTHTEKPYDCRECGKAFSHRSSLSRHLMSHTGESPYECSVCSKAFF  
DRSSLTVHQRIHTGEKPFQCNCEGKAFFDRSSLTRHQRHTGESPYECHQCGKAFSQKSI  
LTRHQLIHTGRKPYECNECGKAFYGVSSSLNRHQKAHAGDPYQCNECGKAFFDRSSLTQH  
QKIHTGDKPYECSECGKAFSQRCLTRHQRVHTGEKPFECTVCGKVFSSKSSVIQHQRRY  
AKQGID

>sp|Q8IZ26|ZNF34\_HUMAN Zinc finger protein 34 OS=Homo sapiens GN=ZNF34 PE=1 SV=3

MLLLSDQLLLTALRKPNPQAMAALFLSAPPQAEVTFEDVAVYLSREEWGRLGPAQRGLY  
RDVMLETYGNLVS LGVPAGPKPGVISQLERGDEPWLDVQGTSGKEHLRVNSPALGTRT  
EYKELTSQETFGEEPQGSEPVEACDHISKSEGSLEKLVEQGRPRAVTLTNGESSRESGG  
NLRLLSRPVPDQRPHKCDICEQSFEQRSYLNHKKRVHRSKKTNTVRNSGEIFSANLVVKE  
DQKIPTGKKLHYCSYCGKTFRYSANLVKHQRLHTEEKPYKCDECGKAFSQSCEFINHRRM  
HSGEIPYRDECGKTFTRPNLMKHQRIHTGEKPYKCGECGKHFSAYSSLIYHQRIHTGE  
KPYKCNDCGKAFS DGSILIRHRRTHTEKPFECKECGKGFTQSSNLIQHQRHTGEKPYK  
CNECEKAFIQKTKLVEHQRSHTGEKPYECNDCGKVFSQSTHLIQHQRIHTGEKPYKSEC  
GKAHNSSRLIHHQRLHHGEKPYRCS DCKKAFSQSTYLIQHRRHTGEKPYKSEC GKAF  
RHSSNMCQHQRHREDFSM

>sp|Q96MX3|ZNF48\_HUMAN Zinc finger protein 48 OS=Homo sapiens GN=ZNF48 PE=1 SV=2

MERAVEPWGPD LHRPEEREPQRGARTGLGSENVISQNEFEHTPQEDDLGFKEEDLAPDH  
EVGNASLKPEGIQNWDDLWVQREGLGKPQPRDRGPRLGEPWGWQASSDRAAVCGECGKS  
FRQMSDLVKHQRTHTEKPYKCGVCGKGFGDSSARIKHQRTHSGEKPYRARPPAQGPPKI  
PRSRIPAGERPTICGECGKSFRQSSDLVKHQRTHTEKPYKCGICGKGFGDSSARIKHQR  
THRGEQPPRPVPPRRQPSRAATAATQGPKAQDKPYICTDCGKRFLVSCSLLSHQRSHLGP  
KPF GCDVCGKEFARGSDLVKHLRVHTGEKPYLCPECGKGFADSSARVKHLRTHSGERPHA  
CPECDRTFSLSTLLRHRLTHMEPQDFSFPGYPLPALIPSPPPPPLGTSPPLTPRSPSHS  
GEPFGLPGLEPEPGGPQAGEPPPLAGDKPHKCPECGKGFRRSSDLVKHHRVHTGEKPYL  
CPECGKGFADSSARVKHLRTHRGERARPPPSTLLRPHNPPGPVPMAPRPRVRAQPSGPS  
QPHVCGFCGKEFPRSSDLVKHRRTHTEKPYKCAECGKGFGDSSARIKHQRGHLVLT PFG  
IGDGRARPLKQEAATGLE

>sp|P51523|ZNF84\_HUMAN Zinc finger protein 84 OS=Homo sapiens GN=ZNF84 PE=1 SV=2

MTMLQESFSFDDLSDVFTQKEWQLLDPSQKNLYKDVMLENYSSLVSLGYEVMKPDVIFKL  
EQGEEPWVGDEIPSSDSPEVWKVDGNMMWHQDNQDKLKI I KRGHECDAFGKNFNLNMNF  
VPLRKSNSEGLDGLILKHHLLD LIPKGDYGAESDDFNVDNFFLHSPEDTDTWLKYY  
DCDKYKESYKKSQII IYHRNRLGEKLYECSECRKRFSKKPSLIKHQSRHIRDIAFGCGNC  
GKTFPQKSQFI THHRTHTGEKPYNCSQCGKAFSQKSQLTSHQRTHTGEKPYECGECGKAF  
SRKSHLISHWRTHTEKPYGCNECGRAFSEKSNLINHQRIHTGEKPFECRECGKAFSRKS  
QLVTHHRTHTGTPFGCSDCRKAFFEKSELIRHQTHTGEKPYECSECRKAFRERSLIN  
HQRTHTEKPHGCIQCGKAFSQKSHLISHQMTHTGEKPFICSKCGKAFSRKSQ LVRHQR  
HTGEKPYECSECGKAFSEKLSLTNHQRIHTGEKPYVCSECGKAF CQKSHLISHQRTHTE  
KPYECSECGKAFGEKSSLATHQRTHTEKPYECRDCEKAFSQKSQ LNTNHQRIHTGEKPYE  
CSLCRKAFFEKSELIRHLRTHTEKPYECNECRKAFREKSSLINHQRIHTGEKPFECSEC  
GKAFSRKSHLIPHQRTHTEKPYGCSECRKAFSQKSQ LVNHQRIHTGEKPYRCIECGKAF

SQKSQLINHQRTHTVKKS

>sp|Q8TCW7|ZPLD1\_HUMAN Zona pellucida-like domain-containing protein 1 OS=Homo sapiens  
GN=ZPLD1 PE=2 SV=2

MEQIWLLLLLTIRVLPGSAQFNGYNCDANLHSRFP AERDISVYCGVQAITMKINFCTVLF  
SGYSETDLALNGRHGDSHCRGFINNNTFPAVVIFIINLSTLEGCGNNLVVSTIPGVSAYG  
NATSVQVGNISGYIDTPDPPTIIISYLPGLLYKFSCSYPLEYLVNNTQLASSSAAISVREN  
NGTFVSTLNNLLYNDSTYNQQLIIPSIGLPLKTKVFAAVQATNLDGRWNVLMDYCYTPS  
GNPNDDIRYDLFLSCDKDPQTTVIENGRSQRGRFSFEVFRFVKHKNQKMSTVFLHCVTKL  
CRADDCPFLMPICSHRERRDAGRRTTWSPPQSSSGSAVLSAGPIITRDEPTTNNSQLGSP  
SMPPFQLNAITSALISGMVILGVTFSLLLCSLALLHRKGPTSLVLNGIRNPVFD

>sp|Q5FWF4|ZRAB3\_HUMAN DNA annealing helicase and endonuclease ZRANB3 OS=Homo sapiens  
GN=ZRANB3 PE=1 SV=2

MPRVHNIKKSLTPHISCVTNESDNLDFLPDRLRAKLLPFQKDGIIFALKRNGRCMVADE  
MGLGKTIQAIGITYFYKEEWPLLIVVPSSLRYPWTEEIEKWIPELSPEEINVIQNKTDVR  
RMSTSKVTVLGYLLTADAKTLIDALNNQNFKVIVDESHYMKSRNATRSRILLPIVQKA  
RRAILLTGTPALGRPEELFMQIEALFPQKFGRWTDYAKRYCNAHIRYFGKRPQWDCRGAS  
NLNELHQLSDIMIRRLKTEVLTQLPPKVRQRIPFDLPASAAKELNTSFEWEKIMRTPN  
SGAMETVMGLITRMFKQTAIAKAGAVKDYIKMMLQNDSLKFLVFAHLSMLQACTEAVIE  
NKTRYIRIDGSVSSSERIHLVNQFQKDPDTRVAILSIQAAGQGLTFTAASHVVFAELYWD  
PGHIKQAEADRAHRIGQCSSVNIHYLIANGTLDTLMWGMLNRKAQVTGSTLNGRKEIKAE  
EGDKEKWDFLQFAEAWTPNDSSEELRKEALFTHFEKEKQHDIRSFFVPQPKKRQLMTSCD  
ESKRFREENTVVSDDPTKTAARDIIDYESDVEPETKRLKLAASEDH CSPSEETPSQSKQI  
RTPLVESVQEAKAQLTTPAFPVEGWQC SLCTYINNSELPYCEMCETPQGSAVMQIDSLNH  
IQDKNEKDDSQKDTSKKVQ TISDCEKQALAQSEPGQLADSKEETPKIEKEDGLTSQPGNE  
QWKSSDTLPVYDTLMFCASRNTDRIHIYTKDGKQMSCNFIPLDIKL DLWEDLPASFQLKQ  
YRSLILRFVREWSSLTAMKQRIIRKSGQLFCSPILALEEITKQQTKNCTKRYITKEDVA  
VASMDKVKNVGGHVRLITKESRPDPFTKKLLEDGACVPFLNPYTVQADLTVKPSTSKGY  
LQAVDNEGPNLCLRCQQPTCQTKQACKANSWDSRFCSLKCQEEFWIRSNNSYLRAKVFET  
EHGVCQLCNVNAQELFLRLDAPKSQRKNLLYATWTSKLPLEQLNEMIRNPGEHFWQVD  
HIKPVYGGGGQCSLDNLQTLCTVCHKERTARQAKERSQVRRQSLASKHGS DITRFLVKK

>sp|A6NJL1|ZSA5B\_HUMAN Zinc finger and SCAN domain-containing protein 5B OS=Homo sapiens  
GN=ZSCAN5B PE=3 SV=1

MAANWTLSWGQGGPCNSPGSDTPRSVASPETQLGNHDRNPETWHMNFRMFSCPEESDPIQ  
ALRKLTELCHLWLRPDLHTKEQILDMLVMEQFMISMPQELQVLVKVNGVQCKDLEDLLR  
NNRRPKKWSIVNLLGKEYLMLNSDVEMAEAPASVRDDPRDVSSQWASSVNQMHPGTGQAR  
REQQILPRVAALSRRQGEDFLLHKSIDVTGDPNSPRPKQTLKDLKENREENPGLSSPEP  
QLPKSPNLVRAKEGKEPQKRASVENVDADTPSACVVEREALTHSGNRGDALNLS SPKRSK  
PDASSISQEEPQGEATPVGNRESPGQAEINPVHSPGPAGPVSHPDGQEA KALPPFACDVC  
NKSFKYFSQLSIHRRSHTGDRPFQCDLCRKRF LQPSDLRVHQRVHTGERPYMCDVCQKRF  
AHES TLQGHKRIHTGERPFKCKYCSKVFSHKGNLVHQRTHSGEKPYKCPTCQKA FRQLG  
TFKRHLKTHRETTSQ

>sp|Q6UXU0|YS002\_HUMAN Putative uncharacterized protein UNQ9165/PRO28630 OS=Homo sapiens  
GN=UNQ9165/PRO28630 PE=2 SV=1

MAALSRALGPLRTPAPPLWIGLFLVATGSQQSLAQPLPGNTTEATPRSLRASGSLCGPHA

KAPYLCEATHEPAAARIRAQVPDTRWSRVGGQRFYSRVLSPLHRGSPSGHTEASAQRSHMG  
KLKEPQPQDHPKGLGAS

>sp|Q9UI56|YYY4\_HUMAN Very putative protein from MEG3 locus OS=Homo sapiens GN=MEG3 PE=5  
SV=1

MQSRDTVNVKFTPRSFWGSRPKHTGGRSEMRAHVPQAPWARQAPPVLPVLTVVNDHPHEK  
PVSRPQNT

>sp|Q86YH2|Z280B\_HUMAN Zinc finger protein 280B OS=Homo sapiens GN=ZNF280B PE=1 SV=2

MEQSCEEEKEPEPQKNIQETKQVDDAELIFVGVHVNEDAELIFVGVTSNSKPVVSN  
LNRVTPGWSRRKKYDHLRKDTARKLQPKSHETVTSEAVTVLPASQLESRSTDSPIIIEP  
LSKPDYRNSSPVVNNSELPSPLITFTDSLHHPVSTALSVGGINESPRVSKQLSTFEV  
NSINPKRAKLRDGIIEGNSSASFPSDTFHTMNTQQSTPSNNVHTLSHVQNGAPFAAFP  
KDNIHFKEPINTNLDRENELAKTDILSLTSQNKTFDPKKENPIVLLSDFYYGQHKGEGQPE  
QKTHHTFKCLSCVKVLKNVFMNVKHHLEFEKQRNDSWENHTTCQHCHRQFPTPFQLQC  
HIENVHTAQEPSTVCKICELSFETDQVLLQHMKDHHKPGEMPVVCVCHYRSSVFADVET  
HFRTCHENTKNLLCPFLKIFKTATPYMCHYRGHWGKSAHQCSKCRLQLTFKEKMEHKT  
QCHQMFKKPKQLEGLPPETKVTIQVSLEPLQPGSVDVASITVSTSDSEPSLPRSKSKISK  
KSH

>sp|Q6N043|Z280D\_HUMAN Zinc finger protein 280D OS=Homo sapiens GN=ZNF280D PE=1 SV=3

MGDNPFQPKSNSKMAELFMECEEELEPWQKKVKEVEDDDDEPIFVGEISSSKPAISNI  
LNRVNPSSYSRGLKNGALSRGITAAFKPQSQHYTNPTSNPVPASPINFHPESRSSDSSVI  
VQPFSPKPGYITNSSRVVSNKSELLFDLTQDTGLSHYQGGPTLSMAGMSESSFLSKRPST  
SEVNNVNPKKPKPSESVSANSSAVLPSVKSPSVTSSQAMLAAGTNTSSNQSKNGTPFPR  
ACPKCNIHFNLDDLKNNHMYCCPDMMNNFLGLAKTEFSSTVNKNTTIDSEKGLIMLVN  
DFYYGKHEDVQEEQKTHHTFKCFSLKILKNNIRFMNHMKHHLELEKQSSESWENHTTC  
QHCHYRQFPTPFQLQCHIESTHTPHEFSTICKICELSFETEHVLLQHMKDNHKGEMPVVC  
QVCNYSRSSFSVDVETHFRTSHENTKNLLCPFLKVIKIATPYMHYMKHQQKGIHRCTKC  
RLQLTCKEKMDHKTQHRTFIKPKQLEGLPPGKVTIRASVGPLQSGASPTPSISASAS  
TLQLSPRTKNITAKNPAKSNTPSKNTVKSNAKPNTPSKNGSKSKYKPKISNMQKKQST  
LASSNKKSKVNTALRNLRIRRIHKCIECCSEIKDFANHFPTYVHCSFCRYNTSCSKAYV  
NHMSFHSNRPSCRFCIFKKHSENLRGITLVCLNCDFLSDVSGLDNMATHLSQHKHTTCQ  
VVMQKVSVCIPTSEHLSLKKEAPAKEQEPVSKEIARPNMAERETETSSESKQDKAASS  
KEKNGCNANSFEGSSTTKSEESITVSDKENETCLADQETGSKNIVSCDSNIGADKVEKKK  
QIQHVCQEMELKMCQSSENIILSDQIKDHNSSEARFSSKNIKDLRLASDNVSIQFLRKR  
HEPESVSSDVSEQGSIHLEPLTPSEVLEYEATEILQKSGDPSAKTDEVVSDQTDIPGG  
NNPSTTEATVDLEDEKERS

>sp|Q86Y25|Z354C\_HUMAN Zinc finger protein 354C OS=Homo sapiens GN=ZNF354C PE=2 SV=1

MAVDLLSAQEPVTFRDVAVFFSQDEWLHLSAQRALYREVMLENYSSLVSLGIPFSMPKL  
IHQLQQGEDPCMVEREVPDTRLGFKTWLETEALPHRQDIFIEETSQGMVKKESIKDGHW  
DINFEEAVEFESEIEEEQEKPLRQMIDSHEKTISEDGNHTSLELGKSLFTNTALVTQQS  
VPIERIPNMYTTFGDKFQNFDMKCFQIYPGGKPHICNECGKSFKQNLHLIEHQRIHTG  
EKPYKCNECEKTFSHRSSLLSHQRIHTGEKPYKCNECEKAFFSNSSTLIKHLRVHTGEKPY  
RCRECGKAQSCSTLTVHQRIHTGEKLYKCGEKEKAFNCRALHRHQRIHTGEKPYKCSE  
CGKGYSTFTSLAEHQRFHTGEQLYTCLECGRTFTRIVTLIEHQRIHTGQKPYQCNECEKA  
FNQYSSFNEHRKIHTGEKLYTCEECGKAFGCKSNLYRHQRIHTGEKPYQCNCGKAQFSQY

SFLTEHERIHTGEKLYKMECGKAYSYSRNLCRHKKVHTKEKLYKWKEYGKPFICSSSLT  
QYQRFKGDKAYEV

>sp|Q8IWR0|Z3H7A\_HUMAN Zinc finger CCCH domain-containing protein 7A OS=Homo sapiens  
GN=ZC3H7A PE=1 SV=1

MSNVSEERRKRQQNIKEGLQFIQSPLSYPGTQEYAVYLRALVRNLFNEGNDVYREHDWN  
NSISQYTEALNIADYAKSEEILIPKEIEKLYINRIACYSNMGFHDKVLEDCNIVLSLNA  
SNCKALYRKSKALSDLGRYKKAYDAVAKCSLAVPQDEHVIKLTQELAQKLGFKIRKAYVR  
AELSLKSVPGDGATKALNHSVEDIEPDLLTPRQEAVPVVSLPAPSFSEVGSSELASVPVM  
PLTSILPLQVEESALPSAVLANGGKMPFTMPEAFLDDGDMVLGDELDDLLDSAPETNETV  
MPSALVRGPLQTASVSPSMPFSASLLGTLPIGARYAPPPSFSEFYPLTSSLEDFCSSLN  
SFSMSSESKRDLSTSTSREGTPLNNSNSSLMLMNGPGSLFASENFLGISSQPRNDFGNFFG  
SAVTKPSSSVTPRHPLEGTHELRQACQICFVKSGPKLMDFTYHANIDHKCKKDILIGRIK  
NVEDKSWKKIRPRPTKTYEGPYYICKDVAEEEECRYSGHCTFAYCQEEIDVWTLERKGA  
FSREAFFGGNGKINLTVFKLLQEHLGEFIFLCEKCFDHKPRMISKRNKDNSTACSHPVTK  
HEFEDNKLVLHILRETTVKYSKIRSFHGQCQLDLCRHEVRYGCLREDECFYAHSLVELKV  
WIMQNETGISHDAIAQESKRYWQNEANVPGAQVLGNQIMPGFLNMKIKFVCAQCLRNGQ  
VIEPDKNRKYCSAKARHSWTKDRRAMRVMSIERKKWMNIRPLPTKKQMPLQFDLCNHAS  
GKKCQYVGNCFAHSPEEREVWTYMKENGIQDMEQFYELWLKSQKNEKSEDIASQSNKEN  
GKQIHMPDYAEVTVDFHCWMCCKNCSEKQWQGHISSEKHKEKVFTEDDQYCWQHRFP  
TGYFSICDRYMNGTCPEGNSCKFAHGNAELHEWEERRDALMKMLNKARKDHLIGPNDNDF  
GKYSFLFKDLN

>sp|Q6AHZ1|Z518A\_HUMAN Zinc finger protein 518A OS=Homo sapiens GN=ZNF518A PE=1 SV=2

MPSEQKQLFCDEKQTLTKDYDVKNEIVDRSAPKPKISGSIHYALKNVKIDLPKINIPNE  
VLLKHEVDKYRKLQSKQQTARKSISIKTVSCVEECTLLHKSERAEVEGVKMSAKILNFS  
CLKCRDNTRYSPNDLQKHQFMWHHGEPSYPCMCNFSANDFQVFKQHRRTHRSTLVKCD  
ICNNESVYTLLNLTKHFTSTHCVNGNFQCEKCKFSTQDVGTFVQHIHRHNEIHYKCGKCH  
HVCFTKGELQKHLHIHSGTFPFTCQYCSYGATRREHLVRHVITLHKEHLYAKEKLEKDKY  
EKрмаTSAGLKLILKRYKIGASRKTFWKRKKINSGSDRSIEKNTQVLKMNKTQTKSED  
QSHVVQEHLSEEKDERLHCENNDKAPESSEKPTPLSTGQGNRAEEGPNASSGFMKTAVL  
GPTLKNVMMKNNKLAVSPNYNATFMGFKMMDGKHIVLKLVPKQNVCSPGSQSGAAKDG  
TANLQPQTLDTNGFLTGTTELNDTVYMKAAATPFSCSSSILSGASSEKEMTLISQRNM  
LQTMDEKSVSSLSATSELVTASVNLTKFETRDNVDFWGNHLTQSHPEVLGTTIKSPDK  
VNCVAKPNAYNSGDMHNYCINYNCELPESSNQGSPLPHNYSKVNSNKRFRSGTAVY  
ENPQRESSSSKTVVQQPISSEFSLVRQESSKPDSLLASISLLNDKDGTAKSEIEEQY  
VLEKGQNDGQNLYSNENQNLKATEKSKWEDFSNVDSPMPRITSVFSLSQSQASEFLP  
PEVNQLLDVLKIKPDVKQDSSNTPNKGPLHCDQSFQKHEREGKIVESSKDFKVQGIFP  
VPPGSGVINPTNDLNLKFGKEKQVSSIPQDVRDSEKMPRISGFGTLLKTQSDAIIITQQ  
VKDKLRATTQNLGSFYMQSPLLNSEQKKTIIIVQTSKGFLIPLNITNKGPLVIPGNALPL  
VNSQGIPASLFFVKKPGMVLTNNGKLEGSAVKTEGAPARGTVTKPECKTPILKVEPNN  
NCLTPGLCSSIGSCLSMKSSSENTPLKGPYILKPTSSVKAVALIPNMLSEQQSTKLNISD  
SVKQQNEIFPKPPLYTFLPDGKQAVFLKCVMPNKTELLKPKLVQNSTYQNIQPKKPEGTP  
QRILLKIFNPVLNVTAAANLSVSNSASSLQKDNVPSNQIIGGEQKEPESRDALPFLDDL  
MPANEIVITSTATCPESSEEPICVSDCESRVLCKTNCRIERNFNRKKTSSKIFSKTKT  
HGSKDSEAFVSRNRNCKRKCDSYQEPPIRRKATLHRKCKEKAKPEDVRETFGFSRPRLS

KDSIRTLRLFPFSSKQLVKCPRRNQPVVVLNHPDADAPEVVSVMKTI AKFNHVLKVSLS  
KRTINALLKPVVCYNPPKTTYDDFSKRHKTFKPVSSVKERFVLKLT LKKT SKNNYQIVKTT  
SENILKAKFNCWFCGRVFDNQDTWAGHGQRHLM EATRDWNMLE

>sp|Q4V348|Z658B\_HUMAN Zinc finger protein 658B OS=Homo sapiens GN=ZNF658B PE=2 SV=1

MMNLEKNFDKTTLFNHMRD KRGKCS DLNEYGTSCDKTTAVEYNKVHMAMTHYECNERGI  
NFSRKSPLTQSQRITITGWSAFESNKCEENFSQSSAHIVHQKTQAGDKFGEHNECTDALYQ  
KLDFTA HQRIHTDFTA HQKFYLSDEHGKCRKSFYWK AHLIQHERPHSGEKTYQYEECAKS  
FCSSSHPIQHPGTYVGFKLYECNECGKAF CQNSNL SKHLRIHTKEKPCDNNGCGRSYKSP  
LIGHQKTAEMELCGGSEYGTSHLKGHQRI LMGEKPYECIECGKTF SKTSHLRAHQRIH  
TGEKPYECVECEKTF SHKTHLSVHQRVHTGEKPYECNDCGKSFTYNSALRAHQRIHTGEK  
PYECSDCEKTFAHNSALRAHHR IHTGEKPYECNECGRSFAHISVLKAHQRIHTREKPYEC  
NECGRSFTYNSALRAHQRIHTGRKPYECSDCEKTFAHNSALKIHQRIHTGEKPYKCNECE  
KTFAHNSALRAHQNIHTGEKLYECSECGKTF FQKTRLSTHRIHTGEKPYECSKCGKTF S  
QKS YLSGHERIHTGEKPYECNVC GKT FVYKAALIVHQRIHTGEKPYECNECGKTF SQRT H  
LCAHQRIHTGEKPYECNECGKTFADNSALRAHHR IHTGEKPYECNDCGKTF SKTSHLRAH  
LRTRSGEKPYECSECGKTFSEKSYVSAHQRVHTGEKPYECNVC GKPFAHNSTLRVHQRIH  
TGEKSYECNDCGKTF SQKSHLSA HQRIHTGEKPYECNECGKAF AQNSTLRVHQRIHTGEK  
PYECDECGKTFVRKAALRVHHRMHTREKTLACNGFGKS

>sp|A8MWA4|Z705E\_HUMAN Putative zinc finger protein 705E OS=Homo sapiens GN=ZNF705E PE=3  
SV=1

MHSLKKVTFEDVAIDFTQEEWAMMDTSKRKLYRDVMLENISHLVSLVTGYQISKSYIILQ  
LEQGKELWQEGREFLQDQNP DRESALKKTHMISMHPIIRKDAPTSMTMENSLILEDPFEC  
NDSGEDCTHSSTIIQCLLTHSGKKPYVSKQCGKSLSNLLSPKPHKQIHTKGKSYQCNLCE  
KAYTNCFHLLRRPKMHTHTGERPYTCHLCRKAFTQCSHLRRHEKTHTGERPYKCHQCGKAFI  
QSFNLLRRHERTHLGEKWYECDSNGKAFSQSSGFRGNKI IHTGEKPHACL LCGKAFSLSSD  
LR

>sp|O96006|ZBED1\_HUMAN Zinc finger BED domain-containing protein 1 OS=Homo sapiens  
GN=ZBED1 PE=1 SV=1

MENKSLESSQTDLKLVAHPRAKSKVWKYFGFDTNAEGCILQWKKIYCRICMAQIAYSGNT  
SNLSYHLEKNHPEEFCE FVKSNT EQMREAFATAFSKLKP ESSQQPGQDALAVKAGHYDS  
KKQQLTA AVLGLICEGLYPASIVDEPTFKVLLKTADPRYELPSRKYISTKAIPEKYGAV  
REVILKELAEATWCGISTDMWRSENQNRAYVT LA AHFLGLGAPNCLSMGSRCLKT FEVPE  
ENTAETITRVLYEVFIEWGISAKVFGATTNYGKDIVKACSLLDVAVHMPCLGHTFNAGIQ  
QAFQLPKLGALLSRCRKLVEYFQQSAVAMYLYEKQKQQNV AHCMLVSNRVSWWGSTLAM  
LQRLKEQQFVIAGVLVEDSNNHMLLEASEWATIEGLVELLQPFKQVAEMLSASRYPTIS  
MVKPLLHMLLNTTLNIKETDSKELSMKEVIAKELSKTYQETPEIDMFLNVATFLDPRYK  
RLPFLSAFERQQVENRVVEEAKGLLDKVKDGGYRPAEDKIFPVPEEPVKKLMRTSTPPP  
ASVINMLAEIFCQTGGVEDQEEWHAQVVEELS NFKSQKVLGLNEDPLKWWSDRLALFPL  
LPKVLQKYWCVTATRVAPERLFGSAANVVS AKRNRLAPAHVDEQVFLYENARSGAEAEPE  
DQDEGEWGLDQEQVFS LGDGVSGGFFGIRDSSFL

>sp|Q96K62|ZBT45\_HUMAN Zinc finger and BTB domain-containing protein 45 OS=Homo sapiens  
GN=ZBTB45 PE=2 SV=1

MAAAEAVHHIHLQNFSRSLLET L NQRLGGHFC DVTVRIREASLRAHRCVLAAGSPFFQD  
KLLLGHSEIRVPPVPAQTVRQLVEFLYSGSLVVAQGEALQVLTAA SVLRIQTVIDECTQ

IIARARAPGTSAPTLPTVPVPLAPAQLRHRLRHLLAARPPGHPGAAHSRKQRQPARLQ  
LPAPPTPAKAEGPDADPSLSAAPDDRGEDEDEESDDETDGEDGEGGGPGEGQAPPSFPDC  
AAGFLTAAADSACEEPPAPTGLADYSAGRDFLRGAGSAEDVFPDSYVSTWHDGAVPE  
GCPTETPVQPDCLSGSRPPGVKTPGPPVALFPFHLGAPGPPAPPPSAPSGPAPAPPPAF  
YPTLQPEAAPSTQLGEVPAPSAAPTTAPSGTPARTPGAEPPTYECSHCRKTFSSRKNYTK  
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HRPERAPCPACGVFVSHRALLERHLAAHPAP

>sp|Q9P1Z0|ZBTB4\_HUMAN Zinc finger and BTB domain-containing protein 4 OS=Homo sapiens  
GN=ZBTB4 PE=1 SV=3

MPPPAEVTDP SHAPAVLRQLNEQRLRGLFCDVTIAGDTKFAHRSVLAASSPFFREALL  
TSAPLPLPATGGAAPNPATTTAASSSSSSSSSSSSSSSSSSSSSSSSSSSSSSPPASPPAS  
SPPRVLELPGVPAAFSDVLFNIYSARLALPGGGGDGAVAEIGALGRRLGISRLQGLGE  
GGDAWVPPTPAPMATSQPEEDSFPGPRPAGEWEGDRAEAQAPDLQCSLPRRPLPCPQCG  
KFSFIHPKRLQTHEAQCRRGASTRGSTGLGAGGAGPGGPAGVDASALPPPVGFRGGPEHV  
KVVGGHVLYVCAACERSYVTLSSLKRHSNVHSWRRKYPCRYCEKVFALAEYRTKHEVWHT  
GERRYQCIFCWETFVITYNLKTHQRAFHGISPGLLASEKTPNGGYKPKLNTLKL YRLLPM  
RAAKRPYKTYSGAPEAPLSPTLNTAPVAMPASPPPGPPPAPEPGPPPSVITFAHPAPS  
VIVHGGSSSGGGSGTASTGGSQAASVITYTAPPRPPKKREYPPPPPEPAATPTSPATAV  
SPATAAGPAMATTTEEAKGRNPAGRTLTYTAKPVGGIGGGGGPPTGAGRGPSQLQAPPP  
LCQITVRIGEEAIVKRRISETDLRPGELSGEEMEESEEEEEEEEEEEEEEEEEESKAGGE  
DQLWRPYYSYKPKRKAGAAGGASVGGSGLPRGRRPPRWRQKLERRSWEETPAAESPAGRA  
RTERRHRCGDCAQFTTLRKLKHKQEAHGGGSHSSRAGRRPSTRFTCPHCAKVCKTAAAL  
SRHGGQRHAAERPGGTPTPVIAYSKGSAGTRPGDVKEEAPQEMQVSSSSGEAGGGSTAAEE  
ASETASLQDPIISGGEEPVPVASGGSYVYPPVQEFPLALIGGREGGGRGKSGSEGPVG  
AGEGDRMEGIGAAKVTFYPEPYPLVYGPQLLAAYPNFNSLAALPVALNMVLPDEKGAGA  
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>sp|Q15916|ZBTB6\_HUMAN Zinc finger and BTB domain-containing protein 6 OS=Homo sapiens  
GN=ZBTB6 PE=1 SV=1

MAAESDVLHFQFEQQGDVVLQKMNLLRQQNLFCDVSIYINDTEFQGHKVILAACSTFMRD  
QFLLTQSKHVRITILQSAEVGRKLLLSCYTGALEVKRKELLKYLTAA SYLQMVHIVEKCT  
EALSKYLEIDL SMKNNNQHTDLCQSSDPDVKNEDENSDKDCEIIEISEDSPVNIDFHVKE  
EESNALQSTVESLTSERKEMKSPELSTVDIGFKDNEICILHVESISTAGVENGQFSQPCT  
SSKASMYFSETQHSLINSTVESRVAEVPGNQDQGLFCENTEGSYGTVSEIQNLEEGYSLR  
HQCPRCPRGFLHVENYLRLKMHKLFLCLQCGKTFTQKKNLNRHIRGHMGIRPFQCTVCL  
KTFTAKSTLQDHLNIHSGDRPYKCHCCDMDFKHKSALKKHLTSVHGRSSGEKLSRPDLKR  
QSL

>sp|Q8IXZ2|ZC3H3\_HUMAN Zinc finger CCCH domain-containing protein 3 OS=Homo sapiens  
GN=ZC3H3 PE=1 SV=3

MEEKEILRRQIRLLQGLIDDYKTLHGNAAPGTPAASGWQPPTYHSGRAFSARYPRPSRR  
GYSSHHGPSWRKKYSLVNRPPGPSDPPADHAVRPLHGARGGQPPVPQQHVLERQVQLSQG  
QNVVIVKVPKPSKSGSASASGAQRGSLEEFETPWSQRPREGEGEPGRGQLQPSRPTRAR  
GTCSVEDPLLVCQKEPGKPMVKSVGDSVGDSPREPRRTVSESIVAVKASFPSSALPPRTG  
VALGRKLGSHSVASCAPQLLGDRVDAGHTDQVPVPSGSGGPARGPASGPRQAREASLVVT  
CRTNKRFRKNYKWAASSKSPRVARRALSPRVAAENVCKASAGMANKVEKPQLIADPEPK

PRKPATSSKPGSAPSKYKWKASSPSASSSSSFRWQSEASSKDHASQLSPVLSRSPSGDRP  
AVGHSGLKPLSGETPLSAYKVKSRTKIIRRRSSTSLPGDKKSGTSPAATAKSHLSLRRRQ  
ALRGKSSPVLLKTPNKGLVQVTTHRLCRLPPSRAHLPTKEASSLHAVRTAPTSKVIKTRY  
RIVKKTASPPLSAPPFPLSLPSWRARRLSLSRSLVLNRLRPVASGGGKAQPGSPWWSKG  
YRCIGGVLYKVSANKLSKTSGQPSDAGSRPLLRTGRLDPAAGSCSRSLASRAVQRSLAIR  
QARQRREKRKEYCMYYNRFGRGNRGERCPYIHDPEKVAVCTRFRVGTCKKTDGTCPFSHH  
VSKEKMPVCSYFLKGICSNSNCPYSHVYVSRKAIEVCSDFLKGYCPLGAKCKKKHTLLCPD  
FARRGACPRGAQCQLLHRTQKRHSRRAATSPAPGPSDATARSVSASHGPRKPSASQRPT  
RQTPSSAALTAATAVAAPPHCPGGSASPSSSKASSSSSSSSPPASLDHEAPSLQEALAA  
ACSNRLCKLPSFISLQSSPSGAQPRVRAPRAPLTKDSGKPLHIKPRL

>sp|Q96H79|ZCCHL\_HUMAN Zinc finger CCCH-type antiviral protein 1-like OS=Homo sapiens  
GN=ZC3HAV1L PE=1 SV=2

MAEPTVCSFLTQVLCALHGGRMFLKDLRGHVELSEARLRDVLQRAGPERFLLQEVETQEGL  
GDAEAEAAAAGAVGGGTSARWVAVSSVRLCARYQRGECQACDQLHFCRRHMLGKCPNRD  
CWSTCTLSHDIHTPVNMQVLKSHGLFGLNENQLRILLQNDPCLLPEVCLLYNKGEALYG  
YCNLKDKCNKFHVCKSFVKGECKLQTCRSHQLIHAASLKLQDQGLNIPSVVNFQIIST  
YKMKLHKMLENTDNSSPSTEHSQGLEKQGVHAAGAAEAGPLASVPAQSAKKPCPVSCCK

>sp|Q8TBK6|ZCH10\_HUMAN Zinc finger CCHC domain-containing protein 10 OS=Homo sapiens  
GN=ZCCHC10 PE=1 SV=1

MATPMHRLIARRAFDTELQPVKTFWILIQPSIVISEANKQHVRQCQCLEFGHWTYECTG  
KRKYLHRPSRTAELKKALKEKENRLLQQSIGETNVERKAKKKRSKSVTSSSSSSDSSA  
SDSSSESEETSTSSSESDTDESSSSSSSASSTTSSSSSDSDSDSSSSSSSTSTDSS  
SDDEPPKKKKKK

>sp|Q8WW36|ZCH13\_HUMAN Zinc finger CCHC domain-containing protein 13 OS=Homo sapiens  
GN=ZCCHC13 PE=1 SV=1

MSSKDFACGHSQHWARGCPRGGAGRRGGHGRGSQCGSTLSYTCYCCGESGRNAKNC  
VLLGNICYNCGRSGHIAKDCKDPKRERRQHICYTCGRLGHLARDCDRKEQKCYSCGKLGH  
IQKDCAQVKCYRCGEIGHVAINCSKARPGQLPLRQIPTSSQGMSQ

>sp|Q6ZR62|ZCH16\_HUMAN Zinc finger CCHC domain-containing protein 16 OS=Homo sapiens  
GN=ZCCHC16 PE=2 SV=2

MEKCTKSSSTMQVEPSFLQAENLILRLQMHPPTENTAKRGQVMPALATTVMVPVPSLEH  
LTQFHGDPANCSEFLTQVTTYLTALQISNPANDAQIKLFFDYLSQLESCGIISGPDKST  
LLKQYENLILEFQQSFGKPTKQEINPLMNAKFDKGDNSSQQDPATFHLLAQNLICNETNQ  
SGQFEKALADPNQDEESVTDMMDNLPDLITQCIQLDKKHSRPELLQSETQLPLLASLIQ  
HQALFSPTDPPPKGPIQLREGQLPLTPAKRARQQETQLCLYCSQSGHFTRDCLAKRSRA  
PATNTNTAHQ

>sp|Q5T1R4|ZEP3\_HUMAN Transcription factor HIVP3 OS=Homo sapiens GN=HIVP3 PE=2 SV=1

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GPSSVLREGSQEKTGQQKPPKRPIEASVHISQLPQHPLTPAFMSPGKPEHLLEGSTWQ  
LVDPMRPGPSGSFVAPGLHPQSLLPSHASIIPPEDLPGVPKVFVPRPSQVSLKPTEEAH  
KKERKPQKPGKYICQYCSRCAKPSVLQKHRSHTGERPYPCGPCGFSFKTKSNLYKHKR  
SHAHRIKAGLASGMGEMYPHGLEMERIPGEEFEPTEGESTDSEETSATSGHPAELSP  
RPKQPLLSSGLYSSGSHSSHERCSLSQSSTAQSLEDPPPFVEPSSEHPLSHKPEDTHTI  
KQKLALRLSERKKVIDEQAFSPGSKGSTESGYFSRSESAEQVSPNTNAKSYAEIIFG

KCGRIGQRTAMLTATSTQPLLPLSTEDKPSLVPLSVPRQTQVIEHITKLITINEAVVDTS  
IDSVKPRSSLSRRSSMESPKSSLYREPLSSHSEKTKPEQSLLSLQHPPSTAPPVPLLS  
HMSPSAACTISTPHHPFRGSYSFDDHITDSEALSHSSHVFTSHPRMLKRQPAIELPLGGE  
YSSEEPGPSSKDTASKPSDEVEPKESLTKKTKKGLTKGVIYECNICGARYKKRDNYEA  
HKKYYCSELQIAKPI SAGHTSPEAEKSQIEHEPWSQMMHYKL GTTLELTPLRKRKEKS  
LGDEEEPPAFESTKSQFGSPGSDAARNLPLESTKSPAEP SKSVPSLEGPTGFQPRTPKP  
GSGSESGKERRTSKEISVIQHTSSFEKSDSLEQPSGLEGEDKPLAQFPSPPPAPHGRSA  
HSLQPKLV RQPNIQVEILVTEEPDRPDTEPEPPPKEPEKTEEFQWPQRSQTLAQLPAEK  
LPPKKRLRLAEMAQSSGESSFESSVPLSRSPSQESNVSLSGSSRSASFERRDDHGKAEAP  
SPSSDMRPKPLGTHMLTVPSHHPHAREMRRSASEQSPNVSHSAHMTETR SKSFDYGSLSL  
TGPSAPAPVAPPARVAPPERRKCF LVRQASLSRPESELEVAPKGRQESEEPQPSSSKPS  
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PPVSLFSFQHLVQHEPGQSPEFFSTQAMSSLLSSPYMPPLP PSLFQAPPLPLQPTVLHP  
GQLHLPQLMPHPANIPFRQPPSFLPMPYPTSSALSSGFFLPLQSQFALQLPGDVESHLPQ  
IKTSLAPLATGSAGLSPSTEYSSDIRLPPVAPPASSAPTAPPLALPACPDTMVS LVVP  
VRVQTNMP SYGSAMYTTL SQILVTQSQGSSATVALPKFEEPPSKGTTVCGADVHEVGPGP  
SGLSEEQSR AFPTPYLRVPVTLPERKGTLSSESILSLEGSSSTAGGSKRVLS PAGSLEL  
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SLSSDPSDTKEIPPLPHPALSHGTAPGSEALKEYPQPSGKPHRRGLTPLSVKKEDSKEQP  
DLPSLAPPSSLPLSETSSRPAKSQEGTDSKKVLQFPSLHTTTNVS WCYLN YIKPNHIQHA  
DRRSSVYAGWCISLYNPNLPGVSTKAALLRSKQKVS KETYTMATAPHPEAGRLVPSSS  
RKPRMTEVHLPSLVSP EGQKDLARVEKEEERRGEPEEDAPASQRGEPARIKIFEGGYKSN  
EEYVYVRGRGRGKYVCEECGIRCKKPSMLKKHIRTHTDVRPYVCKHCHFAFKTKGNLTKH  
MKSKAHSKKCQETGVLEELEAEEGTSDDLFQDSEGREGSEAVEEHQFSDLEDSDSDSDLD  
EDEDEDEESQDELSRPSSEAPPPGPPHALRADSSPILGPQPPDAPASGTEATRGSSVSE  
AERLTASSCSMSSQSMPGLPWLGPAPLG SVEKDTGSALSYKPVSPRRP WSPSKEAGSRPP  
LARKHSLTKNDSSPQRCS PAREPQASAPSPGLHVD PGRGMGALPCGSPRLQLSPLTLCP  
LGRELAPRAHVL SKLEGTDPGLPRYSPTRRWSPGQAESP PRSAPPGKWALAGPGSPSAG  
EHGPGLGLDPRVLFPAPLPHKLLSRSPETCAS PWQKAESRSPSCSPGAHPLSSRPFSA  
LHDFHGHILARTEENIFSHLPLHSQHLTRAPCPLIPIGGIQMVQARPGAHTLLPGPTAA  
WVSGFSGGSDLTGAREAQERGRWSPTESSSASVSPVAKVSKFTLSSELEGGDYPKERER  
TGGGPGRPPDWTPHGTGAPAEPTTHSPCTPPDTLPRPPQGRRAAQSWSPRLES PRAPT N  
PEPSATPPLDRSSSVGLAEASARFPARTRNLSGEPTRTRQDSPKPSGSGEPRAHPHQPED  
RVPPNA

>sp|Q7Z7L7|ZER1\_HUMAN Protein zer-1 homolog OS=Homo sapiens GN=ZER1 PE=1 SV=1

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ACNFEPHESFFSLFSDPRSTR LTRIHLREDLVQDQDLEAIRKQDLVELYLTNCEKLSAKS  
LQTLRSFSHTLVSLSLFGCTNIFYEEENPGGCEDEYLVNPTCQVLVKDFTFEGFSRLRFL  
NLGRMIDWVPVESLLRPLNSLAALDLSGIQTSDA AFLTQWKDSLVS LVLYNMDLSDDHIR  
VIVQLHKLRLHDISRDR LSSYYKFKLTREVL SLFVQKLG NLSL DISGHMILENC SISKM  
EEEAGQTSIEPSKSSIIPFRALKRPLQFLGLFENSLCRLTHIPAYKVS GDKNEEQVLNAI  
EAYTEHRPEITSRAINLLFDIARIERNQLLRALKLVITALKCHKYDRNIQVTGSAALFY  
LTNSEYRSEQSVKLRRQVIQVVLNGMESYQEVTVQRNCCLTLCNFSIPEELEFQYRRVNE  
LLLSILNPTRQDESIQRIAVHLCNALVCQVDNDHKEAVGKMGFVVTMLKLIQKKLLDKTC



DQVMEFSWSALWNITDETPDNCEMFLNFNGMKLFLDCLKEFPEKQELHRNMLGLLGNVAE  
VKELRPQLMTSQFISVFSNLLSKADGIEVSYNACGVLSHIMFDGPEAWGVCEPQREEVE  
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>sp|Q86XD8|ZFAN4\_HUMAN AN1-type zinc finger protein 4 OS=Homo sapiens GN=ZFAND4 PE=2 SV=2

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EGIPICRQHILIWNMELENDYCLNDYNISEGCTLKLVLAMRGGPINTRRVPTDDPLRKMA  
EYLDSSRVEVWEKTSCSKQVTFVLVYQEGDQLNFFPAVDRGDGTLTPLSDSSKKIDFHLHV  
LRRKGHRMSGGSMYNSDTEDEETEPSSSGQQI IENSITMNKMKLLKAKMKNMNLSSKKP  
KKAVKIKPHPPVAPRPSSGSTAPSRHLLRVLPNIGQSCSPAFGNAYPPEISRNGISSLA  
TQLSAERYISSITGEFLKEDNSWENNTLSHFSSNVKLPPQIPHLELGNDQELADSVLHLG  
SSLPRQTKHFLGNLPSSNGNIVLPSEECVTEQSLLPKVGSLASFAEGNADEQSSGLEGAC  
KVNLELLLTNADKGLKAPEQHLKHVAGVLNGESVETSVLNYRELSPHKNRLLSPLRCSAP  
MSLHNSLVKPERQSKCFEFGKLQPSSSQSLDVQNITDSSFSRTTCFQGVKVDLGRSDV  
ISKVEARDITEMNKASKEPVGCVNNISFLASLAGSTSRNRLQSTRGAGRLQNSGTGLST  
NLQHFQEEENFRKSSPQLEHTGVFLSTHGVMNGNNAAGKSVGECTTHLPPVKAPLQTK  
KKT TNHCF LCGKKTGLASSYECRCGNFCASHRYAETHGCTYDYSAGRRYLHEANPVVN  
APKLPKI

>sp|Q6FIF0|ZFAN6\_HUMAN AN1-type zinc finger protein 6 OS=Homo sapiens GN=ZFAND6 PE=1 SV=2

MAQETNHSQVPMCLSTGCGFYGNPRTNGMCSVCYKEHLQRQSSNGRISPPATSVSSLSE  
SLPVQCTDGSVPEAQSA LDSTSSSMQSPVSNQSLLSESVASSQLDSTSVDAVPETEDV  
QASVSDTAQQPSEEQSKSLEKPKQKKNRCFCMRKKVGLTGFECCGNVYCGVHRYSDVHN  
CSYNYKADAAEKIRKENPVVVGEKIQKI

>sp|Q6ZN57|ZFP2\_HUMAN Zinc finger protein 2 homolog OS=Homo sapiens GN=ZFP2 PE=1 SV=1

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LDTQQSIPMVKRPHNCNSHGEDATQNSELIKTQRMFVGKKIYECNQCKTFSQSSSLLKH  
QRIHTGEKPYKCNVCGKHFIERSSLTVHQRIHTGEKPYKNECGKAFTQSMNLT VHQRTH  
TGEKPYQCKEKGAFHKNSSLIQHERIHTGEKPYKNECGKAFTQSMNLT VHQRTH TGEK  
PYECNECGKAFTQSMHLIVHQRSH TGEKPYECSCQCGKAFTSSTLTLHQRNHTGEKPYK  
NKGKSFSSQSTYLIEHQRLHSGVKPFECNECGKAFTSKNSSLTQHRR IHTGEKPYECMVCG  
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>sp|Q8N8Y5|ZFP41\_HUMAN Zinc finger protein 41 homolog OS=Homo sapiens GN=ZFP41 PE=2 SV=1

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FDAFDASFKDDFEGVPVFI PFQRKKPYECSECGRIFKHKTDHIRHQRVHTGEKPFKCAQC  
GKAFRHSSDVTKHQRTH TGEKPFKCGECGKAFNCGSNLLKHQKTH TGEKPYECTHCGKAF  
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>sp|Q68DK2|ZFY26\_HUMAN Zinc finger FYVE domain-containing protein 26 OS=Homo sapiens  
GN=ZFYVE26 PE=1 SV=3

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EELYETLTQGA VGHVPDGNPRRESWTPRLSSEAVSVLWDLRLQSPQPAQALLELLLEEDD  
GTGLCHWPLQNALVDLIRKALRALQGPDSVPPGVVDAIYGALRTLRCPAEPLGVELHLLC  
EELLEACRTEGSPLREERLLSCLLHKASRGLLSLYGHTYAEKVTEKPPRATASGKVSPDH

LDPERAMLALFSNPNAEAWKVAYFYCLSNNKHFLEQILVTALTLLKEEDFPNLGCLLDR  
EFRPLSCLLVLLGWHCQSLES AKRLLQTLHRTQGPGCDELLRDACDGLWAHLEVLEWCI  
QQSSNPIPKRDLLYHLHGGDSHSVLYTLHHLTNLPALREEDVLKLLQKVPKADPQQEPDA  
VDAPVPEHLSQCQNLTLYQGFCAMKYAIYALCVNSHQHSQCQDCKDSLSEDLASATEPAN  
DSLSSPGAANLFSTYLARCQQYLCSIPDSLCELELLENIFSLLLITSADLHPEPHLPEDYA  
EDDDIEGKSPSGLRSPSESPQHIAHPERKSERGSLGVPKTLAYTMPSHVKAEPKDSYPGP  
HRHSFLDLKHFTSGISGFLADEFAIGAFLRLLQEQLDEISSRSPPEKPKQESQSCSGSRD  
GLQSRHLRLSKVVSEAQRHKKVTSNHRSEEQPSRRYQPATRHPSLRRGRTRRSQADGR  
DRGNSPSLESTSSSELSTSTSEGLSAMSGRNELHSRLHHPQSSLI PMMFSPPESELLASC  
ILRGNFAEAHQVLFTFNLKSSPSSGELMF MERYQEVIQELAQVEHKIENQNSDAGSSTIR  
RTGSGRSTLQAIGSAAAAGMVYSISDVTDKLLNTSGDPI PMLQEDFWISTALVEPTAPL  
REVLEDLSPPAMA AFDLACSQCQLWKTCKQLLETAERRLNSSLERRGRRIDHVLLNADGI  
RGFPVVLQQISKSLNYLLMSASQTKSESVEEKGGGPPRCSITELLQMCWPSLSEDCVASH  
TTLSQQLDQVLQSLREALLEPEPTPPLSSLVEQAAQKAPEAEAHVPVQIQ TQLLQKNLGK  
QTPSGSRQMDYLGTFFSYCSTLAAVLLQSLSSEP DHVEVKVGNPFVLLQQSSSQLVSHLL  
FERQVPPERLAALLAQENLSLSPVQIVSCCCEPLALCSSRQSQTSSLLTRLGTLAQLH  
ASHCLDDLPLSTPSSPRTTENPTLERKPYSSPRDSSLPALTSSALAFKSRSKLLATVAC  
LGASPRLKVKSPSLSWKELRGRREVPLAAEQVARECERLLEQFPLFEAFLLAAWEPLRGS  
LQQGQSLAVNLCGWASLSTVLLGLHSPIALDVLSEAFEE SLVARDWSRALQLTEVYGRDV  
DDLSSIKDAVLSCAVACDKEGWQYLPVKDASLRSRLALQFVDRWPLESCLEILAYCISD  
TAVQEGLKCELQRKLAELQVYQKILGLQSPPVWCDWQTLRSCCVEDPSTVMNMILEAQEY  
ELCEEWGCLYPIPREHLISLHQKHLHLLERRDHDKALQLLRIPDPTMCLEVTEQSLDQ  
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QECLFYLHNYSTNLAIISFYVRHSCLREALHLLNKESPEVFIEGIFQPSYKSGKLHTL  
ENLLESIDPTLESWGKYLIAACQHLQKKNYYHILYELQQFMKDQVRAAMTCIRFFSHKAK  
SYTELGEKLSWLLKAKDHLKIYLET SRSSGRKKTTFFRKKMTAADVSRHMNTLQLQMEV  
TRFLHRCE SAGTSQITTLPLPTLFGNNHMKMDVACKV MLGGKNVEDGFGIAFRVLQDFQL  
DAAMTYCRAARQLVEKEYSEIQQLLKCVSESGMAAKSDGDTILLNCLEAFKRIPPQELE  
GLIQAIHNDNDNKVRAYLICCKLRSAYLIAVKQEHSRATALVQQVQQAAKSSGDAVVQDIC  
AQWLLTSHPRGAHGPGSRK

>sp|Q5T4F4|ZFY27\_HUMAN Protrudin OS=Homo sapiens GN=ZFYVE27 PE=1 SV=1

MQTSEREGSGPELSPSVMPEAPLESPPFPKSPAFDLFNLVLSYKRLEIYLEPLKDAGDG  
VRYLLRWQMPLCSLLTCLGLNVLF LTLNEGAWYSVGALMISVPALLGYLQEVCRARLPDS  
ELMRKYHSVRQEDLQRGRLSRPEAVA EVKSFLIQLEAFLSRLCCTCEAA YRVLHWENPV  
VSSQFYGALLGTVMCLYLLPLCWVLTLLNSTLFLGNVEFFRVVSEYRASLQQRMNPKQEE  
HAFESPPPPDVGGKDGLMDSTPALTPTEDLTPGSVEEAEEAEPDEEFKDAIEETHLVVLE

DDEGAPCPAEDELALQDNGFLSKNEVLRSKVSRLTERLRKRYPTNNGNCTGCSATFSVL  
KKRRSCSNCNSFCSRCCSFKVPKSSMGATAPEAQRETVFVCASCNQTL SK

>sp|Q96DA0|ZG16B\_HUMAN Zymogen granule protein 16 homolog B OS=Homo sapiens GN=ZG16B PE=1  
SV=3

MGAQGAQESIKAMWRVP GTTRRPVTGESPGMHRPEAMLLLLTLALLGGPTWAGKMYGPGG  
GKYFSTTEDYDHEITGLRVSVGLLLVKSQVKLGDSWDVKLGALGGNTQEVTLQPGEYIT  
KVFVAFQAFLRGMVMTSKDRYFYFGKLDGQISSAYPSQEGQVLVGIYGGYQLLG IKSIG  
FEWNYPLEEPTTEPPVNL TYSANSPVGR

>sp|Q9UKY1|ZHX1\_HUMAN Zinc fingers and homeoboxes protein 1 OS=Homo sapiens GN=ZHX1 PE=1  
SV=1

MASRRKSTTPCMVLASEQDPDELEISDLDEGPPVLT PVENTRAEISSDEEVHESVDSDN  
QQNKKEGGYECKYCTFQTPDLNMFTHVDESEHPNVVLNSSYVCVECNFLT KRYDALSEH  
NLKYHPGEENFKLTMVKRNNQTFEQTINDLTFDGSFVKEENAEQAESTEVS SSGISISK  
TPIMKMMKNKVENKRIAVHNSVEDVP EEKENEIKPDREEIVENPSSSASESNTSTSIVN  
RIHPSTASTVVTAAVLPGLAQVITAVSAQQNSNLIPKVLIPVNSIPTYNAALDNNPLLL  
NTYNKFPYPTMSEITVLSAQAKYTEEQIKIWFS AQRLKHGVS WTPEEVEEARRKQFNGTV  
HTVPQTITVIPTHISTGSNGLPSILQTCQIVGQPLVLTQVAGTNTLPVTAPIALT VAGV  
PSQNNIQKSQVPAAQPTAETKPATAAVPTSQSVKHETALVNPDSFGIRAKKTKEQLAELK  
VSYLKNQFPHDSEIIRLMKITGLTKGEIKKWFSDTRYNQ RNSKSNQCLHLNDSSTTII I  
DSSDETTESPTVGT AQPKQSWNPFPDFTPQKFKEKTAEQLRVLQASFLNSSVL TDEELNR  
LRAQTKLTRREIDAWFTEKKKSKALKEEKMEIDESNAGSSKEEAGETSPADESGAPKSGS  
TGKICKKTPEQLHMLKSAFVRTQWPSPEEYDKLAKESGLARTDIVSWFGDTRYAWKNGNL  
KWYYYYQSANSSSMNGLSSLRKRGRGRPKGRGRGRPRGRPRGSKRINNWD RGPSLIKFKT  
GTAILKDYYLKHKFLNEQDLDELVNKSHMGYEQVREWF AERQRRSELGIELFEENEEDE  
VIDDQEEDEEETDDSDTWEPPRHVKRKLKSDD

>sp|Q9Y6X8|ZHX2\_HUMAN Zinc fingers and homeoboxes protein 2 OS=Homo sapiens GN=ZHX2 PE=1  
SV=1

MASKRKSTTPCMVRTSQVVEQDVPEEVDRAKEKGIGTPQPDVAKDSWAAELENSSKENEV  
IEVKS MGESQSKKLGGYECKYCPYSTQNLNEFTEHVD MQHPNVILNPLYVCAECNFTTK  
KYDSLSDHNSKFHPGEANFKLKLIKRNNQTVLEQSIETT NHVVSITSGPGTGDS DSGIS  
VSKTPI MKPGPKADAKKVPKKPEEITPENHVEGTARLVTD AEILSRLGGVELLQDTLG  
HVMPSVQLPPNINLVPKVPVPLNTTKYNSALDTNATMINSFNKFPYPTQAELSWLTAASK  
HPEEHIRIWFATQRLKHGISWSPEEVEEARKKMFNGTIQSV PPTITVLP AQLAPTKVTQP  
ILQTALPCQILGQTSVLVTQVTSGSTTVSCSPITLAVAGVTNHGQKRPLVTPQA APEPKR  
PHIAQVPEPPPKVANPPLTPASDRKKTKEQIAHLKASFLQSQFPDDAEVYRLIEVTGLAR  
SEIKKWFSDHRYRCQRGIVHITSESLAKDQLAIAASRHGR TYHAYPDFAPQKFKEKTQGG  
VKILEDSFLKSSFPTQAELDRLRVETKLSRREIDSWFSERRKL RDSMEQAVLDSMGSGKK  
GQDVGAPNGALSRLDQLSGAQLTSSLPSPSPAI AKSQEQVHLLRSTFARTQWPTPQEYDQ  
LAAKTGLVRTEIVRWFKENRCLLKTGTVKWMEQYQH QPMADDHGYDAVARKATKPM AESP  
KNGGDVVPQYYKDPKKLCEEDLEKL VTRVKVGSEPAKDCLPAKPSEATSDRSEGSSRDGQ  
GSDENEESSVVDYVEVTVGEEDAISDRSDSWSQAAAEGVSELAESDSDCVP AEAGQA

>sp|Q9NZV7|ZIM2\_HUMAN Zinc finger imprinted 2 OS=Homo sapiens GN=ZIM2 PE=1 SV=1  
MYQPEDDNNSDVTSDDDMTRNRRESSPHSVHSFSGDRDWD RRRGRSRDMEPRDRWSHTRN  
PRSRMPPRDLSLPVAKTSFEMDREDDRDS RAYESRSQDAESYQNVVDLAEDRKPHNTIQ

DNMENYRKLLSLGFLAQDSVPAEKRNTEMLDNLPSAGSQFPDFKHLGTFLVFEELVTFED  
VLVDFSPEELSSLSAAQRNLYREVMLENYRNLVSLGHQFSKPDIIISRLSEESYAMETDS  
RHTVICQGESHDDPLEPHQGNQEKLLTPITMNDPKLTPERSYGSDEFERSSNLQSKQSKD  
PLGKDPQEGTAPGICTSPQSASQENKHNRCFCKRTFSTQVALRRHERIHTGKKPYECKQ  
CAEAFYLMPHLNRHQKTHSGRKTS GCNEGRKPSVQCANLCERVRIHSQEDYFECFQCGKA  
FLQNVHLLQHLKAHEAARVLPPGLSHSKTYLIRYQRKHQDYVGERACQCCDCGRVFSRNSY  
LIQHRYRTHQERPYQCQLCGKCFGRPSYLTQHYQLHSQEKTVECDHC

>sp|Q9P0L1|ZKSC7\_HUMAN Zinc finger protein with KRAB and SCAN domains 7 OS=Homo sapiens  
GN=ZKSCAN7 PE=1 SV=2

MTTAGRGNLGLIPRSTAFQKQEGRLTVKQEPANQTWGGSSSLQKNYPVCEIFRLHFRQL  
CYHEMSGPQEALSRLRELCRWLMPEVHTKEQILELLVLEQFLSILPGE LRTWVQLHHPE  
SGEEAVAVVEDFQRHLSGSEEVSAQAQKQEMHFEETTALGTTKESPTSPLSGGSAPGAH  
LEPPYDPGTHHLP SGDFACTSPVPTLPQVGNSGDQAGATVLRMVRPQDTVAYEDLSVDY  
TQKKWKS LTL SQRALQWNMMPENHHSMA SLAGENMMKGSELTPKQEFFKGSESSNRTSGG  
LFGVVPGA AETGDVCEDTFKELEGQTSDEEGSRLENDFLEITDEDKKKSTKDRYDKYKEV  
GEHPPLSSSPVEHEGVLKGQKSYRCECGKAFNRSSHLIGHQRIHTGEKPYECNECGKTF  
RQTSQLIVHLRTHTEKPYECSECGKAYRHSSHLIQHQRLHNGEKPYKCNECAKFTQSS  
RLTDHQRTHTEKPYECNECGEAFIRSKSLARHQVLHTGKKPYKCNECGRAFCSNRNLID  
HQRIHTGEKPYECSECGKAFSRSKCLIRHQLHTGEKPYKCSECGKAFNQNSQLIEHERI  
HTGEKPFECSECGKAFGLSKCLIRHQLHTGEKPYKCNECGKSFNQNSHLIIHQRIHTGE  
KPYECNECGKVFSYSSSLMVHQRTHTEKPYKCNDCGKAFSDSSQLIVHQRVHTGEKPYE  
CSECGKAFSQRSTFNHHQRTHTEKSSGLAWSVS

>sp|O75800|ZMY10\_HUMAN Zinc finger MYND domain-containing protein 10 OS=Homo sapiens  
GN=ZMYND10 PE=1 SV=2

MGDLELLLPGEAEVLVRGLRSFPLREMGSEGNQHENLEKLNMQAILDATVSQGEPIQE  
LLVTHGKVPTLVEELI AVMWQKQVFPVFCRVEDFKPQNTFPIYMVVHHEASIIINLETV  
FFHKEVCESAEDTVLDLVDYCHRKLTLVAQSGCGGPPEGEGSQDSNPMQELQKQAE LME  
FEIALKALSVLRYITDCVDSLSTLSRMLSTHNLPCLLVELLEHSPWSRREGGKLQQFE  
GSRWHTVAPSEQQKLSKLDGQVWIALYNLLSPEAQARYCLTSFAKGRLLKLRAFLDTL  
LDQLPNLAHLQSFLAHLTLTETQPPKKDLVLEQIPEIWERLERENRGKWQAI AKHQLQHV  
FSPSEQDLRLQARRWAETYRLDVLEAVAPERPRCAYCSAEASKRCSRCQNEWYCCRECQV  
KHWEKHGKTCVLAAQGDRAK

>sp|Q9H091|ZMY15\_HUMAN Zinc finger MYND domain-containing protein 15 OS=Homo sapiens  
GN=ZMYND15 PE=2 SV=2

MEFVSGYRDEF LDF TALLFGWFRKFVAERGAVGTSLEGRCRQLEAQIRRLPQDPALWVLH  
VLPNHSGVISLGGAEPGPGPGLGTAWLLGDNPLHLRDLSPYISFVSLEDGEEGEEEEEE  
EDEEEEEKREDGGAGSTEKVEPEEDRELAPTSRESPQETNPPGESEEAAREAGGGKDGCRE  
DRVENETRPQKRKGQRSEAAPLHVSCLLLV TDEHG TILGIDLLVDGAQTASWGS GTKDL  
APWAYALLCHSMACPMGSGDPRKPRQLTVGDARLHRELESVPRLGVKLAKTPMRTWGPR  
PGFTFASLRARTCHVCHRHSFEAKLTPCPQCSAVLYCGEACLRADWQRCPDDVSHRFWCP  
RLAAFMERAGELATLPFTYTA EVTSETFNKEAFLASRGLTRGYWTQLSMLIPGPGFSRHP  
RGNTPSLSLLRGDPYQLLQGDGTALMPPVPPHPPRGVFGSWQDYTTWRGLSLDSP IAVL  
LTYPLTVYYVITHLVQSFPELNIQNKQSLKIHVVEAGKEFDLMVFWELLVLLPHVALE  
LQFVG DGLPPESDEQHFTLQRDSLEVSVRPGSGISARPSSGTKEKGRRDLQIKVSARPY

HLFQGPKPDLVIGFNSGFALKDTWLRSLPRLQSLRVPAFFTESSEYSCVMDGQTMAVATG  
GGTSPQPFPFRSPFRLRAADNCMSWYCNAFIFHLVYKPAQGSARPAPGPPPPSPTPSA  
PPAPTRRRRGEKKPGRGARRRK

>sp|Q5SVZ6|ZMYM1\_HUMAN Zinc finger MYM-type protein 1 OS=Homo sapiens GN=ZMYM1 PE=1 SV=1

MKEPLLGGECDKAVASQLGLLDEIKTEPDNAQEYCHRQQSRTQENELKINAVFSESASQL  
TAGIQLSLASSGVNKMLPSVSTTAIQVSCAGCKKILQKGQTAYQRKGSACLFCIPCITE  
YISSASSPVPSKRTCSNCSKDILNPKDVISVQLEDTTCKTFCSLSCLSSYEERKPPFVT  
ICTNSILTKSMCQKTAIIQYEVKYQNVKHNLCNACLKSFHSANNFIMNCCENCYTICY  
TSSSLSHILQMEGQSHYFNSSKSITAYKQKPAKPLISVPCKPLKPSDEMIETTSDLGKTE  
LFCINCFSAYSKAKMESSSVSVSVVHDTSTELLSPKKDTPVISNIVSLADTDVALPI  
MNTDVLQDTVSSVTATADVIVDLKSSPSEPSNAVASSSTEQPSVSPSSSVFSQHAIGSS  
TEVQKDNMKSMSKISDELCHPKCTSKVQKVGKRSRSIKKSCADFECLNSKKDVAFCYSC  
QLFCQKYFSCGRESFATHGTSNWKKTLEKFRKHEKSEMHLKSLEFWREYQFCDGAVSDDL  
SIHSKQIEGNKKYLKLIENILFLGKQCLPLRGNDQSVSSVNKGNFLELLEMRADKGEE  
TFRLMNSQVDFYNSTQIQSDIEIIEIKTEMLQDIVNEINDSSAFSIIICDETINSAMKEQLS  
ICVRYPPQSSKAILIKERFLGFVDTEEMTGTHLHRTIKTYLQQIGVMDKIHGQAYDSTT  
NLKIKFNKIAAEFKKEEPRALYIHCYAHFLDLSIIRFCKEVKELRSALKTLSSLFNTICM  
SGEMLANFRNIYRLSQNKTCCKHISQSCWTVHRTLLSVIDSLPEIIETLEVIASHSSNT  
SFADELSHLLTLVSKFEFVFLKFLYRVLSVTGILSKELQNKTIIDIFSLSSKIEAILECL  
SSERNVDVYFKTIWDGTEEICQKITCKGFKVEKPSLQKRRKIQKSVDLGNSDNMFFPTSTE  
EQYKINIYYQGLDTILQNLKLCFSEFDYCKIKQISELLFKWNEPLNETTAKHVQEFYKLD  
EDIIPELRFYRHYAKLNFVIDDSCINFVSLGCLFIQHGLHSNIPCLSKLLYIALSWPITS  
ASTENSFSTLPRLKTYLCNTMGQEKLTGPALMAVEQELVNKLMEPERLNEIVEKFISQMK  
EI

>sp|Q9UII5|ZN107\_HUMAN Zinc finger protein 107 OS=Homo sapiens GN=ZNF107 PE=2 SV=1

MVAKPPVMSFHFAQDLWPEQNIKDSFQKVTLLRRYGKCEYENLQLRKGCKHVDECTGHKGG  
HNTVNQCLTATPSKIFQC�KYVKVFDKFSNSNRYKRRHTGNKHFCKECSKSFCVLSQLT  
QHRRIHTRVNSYKCEECGAFNWFSTLTKHKRIHTGEKPYKCEECGAFNQSSQLTRHKI  
IHTEEKPNKCEECGAFKQASHLTIHKIHTGEKPYKYEECGKVFSQSSHLTTQKILHTG  
ENLYKCEECGAFNLFNSLNTNKHRIHAGEKPYKCEECGRAFNISSNLNKQEKIHTGGKLN  
KCEECDKAFNRSLKLTAKKILMEEKPYKCEECGVFNQFSTLTRHKIHTGEKPYKCKE  
CGAFNQSSNLTEHKKIHTAEKSYKCEECGAFNQHSNLINHRKIYSGEKPYKCEECGKA  
FNRSSTLTRHKKIHTGEKPYKCEECDRAFSQSSNLTEHKKIHTGEKPYKCEECGAFNRF  
STLTKHKRIHTGEKPYKCEECGAFNQSYQLTRHKIVHTKEKLNKEEFGKAFKQSSHRT  
IHKIHTGEKPYKCEEHGKVFNQSSNLTTQKIHTGENLYKFEEHGKAFNLFNITNHKI  
IYTGEKPHKCEECGAYNRFSNLTIHKRIHTGEKPYQACEGKAFNCSSTLNRHKIHTG  
EKPYKCKEKGAFNLSSTLTAHKKIHTGEKPYKCEECGAFNQSSNLTHKKIHTSEKPY  
KCEECGKSFNQFSSLNHKKIHTGEKPYKCGDYGRAFNLSNLTTTHKKIHTGEKPYKCEY  
GKT

>sp|Q8NC26|ZN114\_HUMAN Zinc finger protein 114 OS=Homo sapiens GN=ZNF114 PE=1 SV=1

MSQDSVTFADVAVNFTKEEWTLDDPAQRNLYRDVMLENSRNLAFIGWATPCKTKDATPQP  
DILPKRTFPEANRVCLTSSSQHSTLREDWRCPKTEEPHRQGVNNVKKPAVAPEKDESPV  
SICEDHEMRNHSKPTCRLVPSQGDSIRQCILTRDSSIFKYNPVLNDSQKTHENNEDDGVL  
GWNIQWVPCGRKTELKSSTWTGSQNTVHHIRDEIDTGANRHQRNPFKAFREDGSLRAHN

THGREKMYDFTQCENSTRNNSIHAMQMQLYTAETNKKDCQTGATSANAPNSGSHKSHCTG  
EKTHKCECGRAFFYQSFLMRHMKIHTGEKPYECGKCGKAFRYSLHLNKHRLRKHVVQKKP  
YECEECGKVIRESSKYTHIRSHTEGKPYKCKTCGKDFAKSSGLKKHLKTHKDEKPCE

>sp|P52742|ZN135\_HUMAN Zinc finger protein 135 OS=Homo sapiens GN=ZNF135 PE=2 SV=3

MTPGVRVSTDPEQVTFEDVVVGFSQEEWGQLKPAQRTLYRDVMLDTFRLLVSVGHWLPKP  
NVISLLEQEAELWAVESRLPQGVYPDLETRPKVKLSVLKQGISEEISNSVILVERFLWDG  
LWYCRGEDTEGHWEWSCESLES LAVPVAFTPVKTPVLEQWQRNGFGENISLNPDLPHQPM  
TPERQSPHTWGTRGKREKPDNLVQKTCVKEKPYKCQECGKAFSHSSALIEHHRHTHTGER  
PYECHECLKGFRNSSALTKHQRIHTGEKPYKCTQCGRFTNQIAPLIQHQRTHHTGEKPYEC  
SECGKSFSFRSSFSQHERHTHTGEKPYECSECGKAFRQSIHLTQHLRIHTGEKPYQCGECG  
KAFSHSSSLTKHQRIHTGEKPYECHECGKFTQITPLIQHQRTHHTGEKPYECGECGKAFS  
QSTLLTEHRRHTHTGEKPYGCNECGKTFSSHSSLSQHERHTHTGEKPYECSCGKAFRQSTH  
LTQHQRHTHTGEKPYECNDCGKAFSHSSSLTKHQRIHTGEKPYECNQCGRAFSQLAPLIQH  
QRIHTGEKPYECNQCGRAFSQSSLLIEHQRIHTKEKPYGCNECGKSFSHSSLSQHERTH  
TGEKPYECHDCGKSFRQSTHLTQHRRHTHTGEKPYACRDCGKAFTHSSSLTKHQRTHTG

>sp|P52747|ZN143\_HUMAN Zinc finger protein 143 OS=Homo sapiens GN=ZNF143 PE=1 SV=2

MLLAQINRDSQGMTEFPGGMEAQHVTLCLTEAVTVADGDNLENMEGVSLQAVTLADGST  
AYIQHNSKDAKLIDGQVIQLEDGSAAYVQHVPKSTGDSLRLLEDGQAVQLEDGTTAFIH  
HTSKDSYDQSALQAVQLEDGTTAYIHHAVQVPQSDTILAIQADGTVAGLHTGDATIDPDT  
ISALEQYAAKVSIDGSESVAGTGMIGENEQEKKMQIVLQGHATRVTAQSQSGEKAFRCE  
YDGCGLYTTAHLKVHERSHTGDRPYQCEHAGCGKAFATGYGLKSHVRTHHTGEKPYRCS  
EDNCTKSFKTSGDLQKHIRTHTGERPFKCPFEGGRSFTTSNIRKVHVRTHHTGERPYYCT  
EPGCGRAFASATNYKNHVRIHTGEKPYVCTVPGCDKRFTEYSSLYKHHVVHTHSKPYNCN  
HCGKTYKQISTLAMHKRTAHNDTEPIEEEQEAFFEPGQGEDVLKGSQITYVTGVEGDD  
VVSTQVATVTQSGLSQQVTLSQDGTQHVNISQADMQAIGNTITMVTQDGTPTITPAHDA  
VISSAGTHSVAMVTAEGTEGEQVAIVAQDLAAFHTASSEMGGHSHHLVTTETRPLTLV  
ATSNGTQIAVQLGEQPSLEEAIIRIASRIQQGETPGLDD

>sp|Q2M3W8|ZN181\_HUMAN Zinc finger protein 181 OS=Homo sapiens GN=ZNF181 PE=1 SV=1

MPQVTFNDVAIDFTHIEWGWLSSAQRDLYKDV MVQNYENLVSAGLSVTKPYVITLLEDG  
KEPMMMEKKLSKGMIPDWESRWENKELSTKKDNYDEDSPQTVIEKVVKQSYEFSNSKKN  
LEYIEKLEGKHGSQVDHFRPAILTSRESPTADSVYKYNIFRSTFHSKSTLSEPQKISAEG  
NSHKYDILKKNLPKKSVIKNEKVNKGKLLNSNKGAAFSQGKSLTPQTCNREKIYTCS  
ECGKAFGKQSILNRHWRIHTGEKPYECRECGKTFSHGSSLTRHLISHSGEKPYKCIIECGK  
AFSHVSSLTNHQSTHTGEKPYECMNCGKSFSRVSHLIEHLRIHTQEKLIECRICGKAFIH  
RSSLIHHQKIHTGEKPYECRECGKAFCCSSHLTRHQRIHTMEKQYECNKCLKVFSSLSFL  
VQHQSIIHTEKPFECQKCRKSFNQLES LNMHLRNHRLKPYECSICGKAFSHRSSLLQHH  
RIHTGEKPYECIKCGKTFSCSSNLTVHQRIHTGEKPYKNECGKAFSKGSNLTAHQRVHN  
GEKPNSVVSVEKPLDYMNYHTCEKSYRRET

>sp|P17025|ZN182\_HUMAN Zinc finger protein 182 OS=Homo sapiens GN=ZNF182 PE=2 SV=2

MTPASASGEDSGSFYSWQAKREQGLVTFEDVAVDFTQEEWQYLNPPQRTLYRDVMLETY  
SNLVFVGQVTKPNLILKLEVEECAEGKIPFWNFPEVCQVDEQIERQHQQDDQDKCLLMQ  
VGFSDKKTIIITKSARDCHEFGNHLSTNLVASIQRPDKHESFGNNMVDNLDLFSRSSAE  
NKYDNGCAKLFFHTEYEKTNPGMKPYGYKECGGLRRKKGLSLHQRIKNGEKPFECTACR  
KTFSSKSHLIVHWRTHHTGEKPFECTECGKAFSQKSQLIHLRTHHTGERPFECPECGKAFR

EKSTVIIHYRTHTEKPYECNECGKAFTQKSNLIVHQKTHTEKTYECTKCGESFIQKLD  
LIIHHSTHTGKKPHECNECKKTFSDKSTLIIHQRTHTGEKPHKCTECGKSFNEKSTLIVH  
QRTHTGEKPYECDVCGKTFTQKSNLGVHQRTHSGEKPFECNECEKAFSQQSYLMLHQRGH  
TGEKPYECNECEKAFSQQSYLIIHQRTHTTEKPYKNECGKAFREKSKLIIHQRIHTGEK  
PYECPVCWKAFSQQSQLIIHQRTHTGEKPYACTECGKAFREKSTFTVHQRTHTGEKPYKC  
TECGKAFTQKSNLIVHQRTHAGKKAHGRGHTRKSKFMAH

>sp|015231|ZN185\_HUMAN Zinc finger protein 185 OS=Homo sapiens GN=ZNF185 PE=1 SV=3

MSISALGGRTKGKPLPPGEEERNVVKMKVRTTLKGDKSWITKQDESEGRITIELPSGRS  
RATSFSSAGEVPKPRPPSTRAPTGYIIRGVFTKPIDSSSQPQQQFPKANGTPKSAASLVR  
TANAGPPRPSSSGYKMTTEDYKKLAPYNIRRSSTSGDTEEEEEEEVVPFSSDEQKRRSEA  
ASGVLRRAPREHSYVLSAAKKSTGPTQETQAPFIAKRVEVVEEDGPSEKSQDPPALARS  
TPGSNSADGGRTKASRAIWIIECLPSMPSPAGSQELSSRGEEIVRLQILTPRAGLRLVAPD  
VEGMRSSPGNKDKEAPCSRELQRDLAGEEAFRAPNTDAARSSAQLSDGNVGSATGSRPE  
GLAAVDIGSERGSSSATSVAVPADRKSNSTAAQEDAKADPKGALADYEGKDVATRVGEA  
WQERPGAPRGGQGDPAVPAQQPADPSTPERQSSPSGSEQLVRRESCGSSVLTFEGKDVA  
TKVGEAWQDRPGAPRGGQGDPAVPTQQPADPSTPEQQNSPSGSEQFVRRESCTSRVRSPS  
SCMVTVTVTATSEQPHIYIPAPASELDSSSTTKGILFVKEYVNAEVSSGKPVSAARYSNV  
SSIEDSFAMEKKPPCGSTPYSSERTGGICTYCNREIRDCPKITLEHLGICCHEYCFKCGI  
CSKPMGDLDDQIFIHRDTIHCGKCYEKL

>sp|014628|ZN195\_HUMAN Zinc finger protein 195 OS=Homo sapiens GN=ZNF195 PE=1 SV=2

MTLLTFRDVAIEFSLSEWKCLDLAQQLYRDVMLENYRNLFVGLTVCKPGLITCLEQRK  
EPWNVKRQEAADGHPGEMGFHHATQACLELLGSSDLPASASQSAGITGVNHRAQPGLNVSV  
DKFTALCSPGVLQTVKWFLEFRCIFSLAMSSHFTQDLLPEQGIQDAFPKRILRGYGNCGL  
DNLYLRKDWESLDECKLQKDYNGLNQCSTTHSKIFQYNKYVKIFDNFNLHRRNISNTG  
EKPFKCQECGKSFQMLSFLTEHQKIHTGKKFQKCGECGKTFIQCSHFTEPENIDTGEKPY  
KCQECNNVKTCSVLTKNRIYAGGEHYRCEEFQKVFNQCSHLTEHEHGTEKPKCYECS  
SVFISCSLSNQMLILAGEKLSKCETWYKGFNHSPNPSKHQRNEIGGKPFKCEECDSIFK  
WFSDLTKHKRIHTGEKPYKCDECGKAYTQSSHLSEHRIHTGEKPYQCEECGVFRTCSS  
LSNHKRTHSEEKPYTCEECGNIFQLSDLTKHKKTHTGEKPYKCDECGKNFTQSSNLIVH  
KRIHTGEKPYKCEECGRVFMWFSIDTKHKKTHTGEKPYKCDECGKNFTQSSNLIVHKRIH  
TGEKPYKCEKCGKAFTQFSLTVHESIHT

>sp|075362|ZN217\_HUMAN Zinc finger protein 217 OS=Homo sapiens GN=ZNF217 PE=1 SV=1

MQSKVTGNMPTQSLLMYMDGPEVIGSSSLGSPMEMEDALSMKGTAVVPFRATQEKVNIQIE  
GYMPLDCMFCSQTFTHSEDLNKHVLMQHRPTLCEPAVLRVAEYLSPLDKSQVRTEPPKE  
KNCKENEFSCEVCGQTFRVAFDVEIHMRTHKDSFTYGCNMCGRRFKEPWFLKNHMRTHNG  
KSGARSKLQQGLESPATINEVVQVHAAESSPYKICMVCGLFPNKESLIEHRKVHTK  
KTAFTGSSAQTDSPQGGMPSSREDFLQLFNLRPKSHPETGKKPVRCIPQLDPFTTFQAWQ  
LATKGVAICQEVKESGQEGSTDNDDSSSEKELGETNKGSCAGLSQEKEKCKHSHGEAPS  
VDADPKLPSSKEKPTHCECGKAFRTYHQLVLHSRVHKKDRRAGAESPTMSVDGRQPGTC  
SPDLAAPLDENGAVDRGEGGSEDGSEDGLPEGIHLDKNDGKGKIKHLTSSRECSYCGKFF  
RSNYLNIHLRTHTEKPYKCEFCYAAAQKTSRLYHLERHHKEKQTDVAAEVKNDGKNQ  
DTEALLTADSAQTKNLKRFFDGAKDVTGSPPAKQLKEMPSVFQNVLGSAVLSPAHKDTQ  
DFHKNAADDSADKVNKNPTPAYLDLLKKRSVETQANNLICRTKADVTPPPDGSTHNL  
VSPKEKQTETAADCRYRPSVDCHEKPLNLSVGALHNCPAISLSKSLIPITCPCTFKTF

YPEVLMMHQRLEHKYNPDVHKNCRNKSLRSRRTGCPPALLGKDVPLSSFCFKPKPKSAF  
PAQSKSLPSAKGKQSPPGPGKAPLTSGIDSSTLAPSNLKSHRPQQNVGVQGAATRQQQSE  
MFPKTSVSPAPDKTRPETKLKLPVAPSQPTLGSSNINGSIDYPAKNDSPWAPPGRDYF  
CNRASNTAAEFGEPLPKRLKSSVVALDVDQPGANYRRGYDLPKYHMYRGITSLLPQDCV  
YPSQALPPKPRFLSSSEVDSPNVLTVQKPYGGSGPLYTCVPAGSPASSSTLEGKRPVSYQ  
HLSNSMAQKRNYENFIGNAHYRPNDKKT

>sp|Q9UIE0|ZN230\_HUMAN Zinc finger protein 230 OS=Homo sapiens GN=ZNF230 PE=1 SV=3

MTTFKEAVTFKDVAVFFTEELGLLDPAQRKLYQDVMLENFTNLLSVGHQPFHPFHLRE  
EKFWMMETATQREGNSGGKTI AEAEPHEDCPCQIWEQTASDLTQSQDSIINNSHFFEQG  
DVPSQVEAGLSIIHTGQKPSQNGKCKQSFSDVAIFDPPQQFHSGEKSHTCNECGKSFCYI  
SALRIHQVRHLREKLSKCDMRGKEFSQSSCLQTRERVHTGEKPFKCEQCGKGFRCAILQ  
VHCKLHTGEKPYICEKCGRAFIHDFQLQKHQIIHTGEKPFKCEICGKSFCLRSSLRHCM  
VHTAEKLYKSEECGKGFTDSLHLKHQIIHTGQKPYNCKECGKSFRWSSYLLIHQRIHSG  
EKPYRCEECGKYISKSGNLHQVRHTGERPYNCKECGKSFSRASSILNHKKLHCRKKPF  
KCEDCGKRLVHRSFCKDQQGDHNGENSSKCEDCGKRYKRRNLNDIILSLFLNDM

>sp|075437|ZN254\_HUMAN Zinc finger protein 254 OS=Homo sapiens GN=ZNF254 PE=2 SV=3

MPGPPRSLEMGLLTFRDVAIEFSLEEWQHLDAQQNLYRNVMLENYRNLAFLGIAVSKPD  
LITCLEQGKEPWNMKRHEMVDEPPGMCPhFAQDLWPEQGMEDSFQKAILRRYGKYGHENL  
QLRKGCKSVDEYKVNKEGYNGLNQCFTTAQSKVFQCDKYLKVYKFLNSNRPKIRHTEKK  
SFKCKKRVKLFCLSHKTQHKSIYHREKSYKCECGKTFNWSSTLTNHRKIYTEEKPYKC  
EEYNKSPKQLSTLTTHKIIHAGEKLYKCEECGEAFNRSSNLTHKIIHTGEKPYKCEECG  
KAFIWSSTLTEHKKIHTRKPKYKCEECGKAFIWSSTLTRHKRMHTGEKPYKCEECGKAFS  
QSSTLTTHKIIHTGEKRYKCLECGKAFKQLSTLTTHKIIHVGEKLYKCEECGKGFNRSSN  
LTTHKIIHTGEKPYKCEECGKAFIWSSTLTTHKRIHTREKPYKCEECGKAFIWSSTLTRH  
KRMHTGEKPYKCEECGKSFSQSSTLTTHKIIHTGEKPYKCEECGKAFNWSSTLTTHKIIH  
TEEKPYKCEKCGKAFKQSSILTNHKRIHTGEKPYKCEECGKSFNRSSTFTKHKVIHTGVK  
PYKCEECGKAFFWSSTLTTHKRIHTGEQPYKWEKFGKAFNRSSHLTTDKITHWREILQV

>sp|Q14586|ZN267\_HUMAN Zinc finger protein 267 OS=Homo sapiens GN=ZNF267 PE=1 SV=3

MGLLTFRDVAVEFSLEEWQHLDAQQNLYQDVMLENYRNLVSLGLVSKPDLITFLEQRK  
EPWNVKSEETVAIQPDVFSHYNDLLTEHCTEASFQKVISRRHGSCDLENLHLRKRWKRE  
ECEGHNGCYDEKTFKYDQFDESSVESLFHQQILSSCAKSYNFDQYRKVFTHSSLLNQEE  
IDIWGKHHIYDKTSVLFQVSTLNSYRNVFIGEKNYHCNNSEKTLNQSSSPKNHQENYFL  
EKQYKCEFEEVFLQSMHGQEQEQSYKCNKCEVCTQSLKHIHQHTIHIRENSYSYNKY  
DKDLSQSSNLRKQIIHNEEKPYKCEKCGDSLHSLHLTQHQQIPTTEKPKWKECGKVFN  
LNCSLYLTKQQQIDTGENLYKCKACSKSFTRSSNLIVHQRIHTGEKPYKCEKCGKAFRCS  
SYLTKHKRIHTGEKPYKCEKCGKAFNRSSCLTQHQTTHTGEKLYKCKVCSKSYARSSNLI  
MHQRVHTGEKPYKCEKCGKVFSSRSSLTQHRKIHTGENLYKCKVCAKPFTCFNSLIVHER  
IHTGEKPYKCEKCGKAFPYSSHLIRHRIHTGEKPYKCKACSKSFSDSSGLTVHRRHTTG  
EKPYTCEKCGKAFSYSSDVIQHRRHTGQRPYKCEECGKAFNYRSYLTHQRSHTGERPY  
KCEECGKAFNRSYLTTHRRHTGERPYKCECGKAFSYRSYLTTHRRSHSGERPYKCEE  
CGKAFNRSYLIHQRSHTREKL

>sp|Q8N554|ZN276\_HUMAN Zinc finger protein 276 OS=Homo sapiens GN=ZNF276 PE=1 SV=4

MKRDRLLGRFLSPGSSRQCGASDGGGVSRTRGRPSLSGGPRVDGATARRAWGPVGS CGDA  
GEDGADEAGAGRALAMGHCRLCHGKFSSRSLRSISERAPGASMERPSAEERVLVRDFQRL



LGVAVRQDPTLSPFVCKSCHAQFYQCHSLLKSFLQRVNASPAGRRKPCAKVGAQPPTGAE  
EGACLVDLITSSPQCLHGLVGWVHGHAASCGALPHLQRTLSSSEYCGVIQVWVGCDQGHY  
TMDTSSSCAKFLDLSALAVKWPWDKETAPRLPQHRGWNPGDAPQTSQGRGTGTPVGAETK  
TLPSTDVAQPPSDSDAVGPRSGFPPQPSLPLCRAPGQLGEKQLPSSTSDDRVDKDEFSDLS  
EGDVLSEDENDKKQNAQSSDESFEYPYPERKVSQKSESKEAKKSEEPRIKKPGPKPGWK  
KKLRCEREELPTIYKCPYQGCTAVYRGADGMKKHIKEHHEEVRRERPCPHPGCNKVFMDR  
YLQRHVKLITHEVRNYICDECGQTFKQRKHLLVHQMRSYGAKPLQCEVCGFQCRQRASLK  
YHMTKHKAETELDFACDQCGRREFEKAHNLNVHMSMVHPLTQTQDKALPLEAEPGPPSP  
SVTTEGQAVKPEPT

>sp|Q9NQX6|ZN331\_HUMAN Zinc finger protein 331 OS=Homo sapiens GN=ZNF331 PE=1 SV=1

MAQGLVTFADVAIDFSQEEWACLNSAQRDLYWDVMLENYSNLVSLDLESAYENKSLPTEK  
NIHEIRASKRNSDRRSKSLGRNWICEGTLERPQRSRGRVYVQMIINYVKRPATREGTPPR  
THQRHHKENSFECKDCGKAFSRGYQLSQHQKIHTGEKPYECKECKKAFRWGNLTQHQKI  
HTGEKPYECKDCGKAFRWGSSLVHKKRIHTGEKPYECKDCGKAFRGDELTHQRFHTGE  
KDYECKDCGKTFSRVYKLIQHKRIHSGEKPYECKDCGKAFICGSSLIQHKRIHTGEKPYE  
CQECGKAFTRVNYLTQHQKIHTGEKPHECKECGKAFRWGSSLVKHERIHTGEKPYKCTEC  
GKAFNCGYHLTQHERIHTGETPYKCECKGKAFIYGSSLVKHERIHTGVKPYGCTECGKSF  
SHGHQLTQHQTSHGAKSYECKECKGACNHLNHLREHQRIHNS

>sp|Q14585|ZN345\_HUMAN Zinc finger protein 345 OS=Homo sapiens GN=ZNF345 PE=2 SV=1

MENLTKHSIECSSFRGDWECKNQFERKQGSQEGHFSEMIPTPEDMPTFSIQHRIHTDEK  
LLECKECKKDFSVSVLVRHQRIHTGEKPYECKECKGAFSGANLAYHQRIHTGEKPFEC  
KECGKAFSGSNLTHHQRIHTGEKPYECKECKGAFSFGSLIRHQIHSGEKPYECKECKG  
KSFSFESALIRHHRIHTGEKPYECIDCGKAFSGSNLTQHRRRIHTGEKPYECKACGMAFS  
SGSALTRHQRIHTGEKPYICNECGKAFSFGSALTRHQRIHTGEKPYVCKECKGAFNSGSD  
LTQHRIHTGEKPYECKECKAFRSGSKLIQHQMHTGEKPYECKECKGTFSSGSDLTQH  
HRIHTGEKPYECKECKGAFSGSKLIQHQLIHTGERPYECKECKGSFSSGSALNRHQRIH  
TGEKPYECKECKGAFYSGSSLTQHRIHTGEKLYECKNCGKAYGRDSEFQQHKKSHNGKK  
LCELETIN

>sp|Q9NW07|ZN358\_HUMAN Zinc finger protein 358 OS=Homo sapiens GN=ZNF358 PE=1 SV=2

MRRSVLVRNPGHKGLRPVYEELSDSEDLDPNPEDLDPVSEDPEPDPEDLNTVPEDVDPS  
YEDLEPVSEDLDPAEAPGSEPQDPDPMSSSFDDLPDVGIPVPLILDPNSDTLSPGDPKV  
DPISSGLTATPQVLATSPAFLPAPASPPRPFSCPDGAFRRSSGLSQHRRTHSGEKPYR  
CPDCGKSFSHGATLAQHRGIHTGARPYQCAACGKAFGWRSTLLKRRSSHSGEKPHHCPVC  
GKAFGHGSLLAQHLRTHGGPRPHKCPVCAKGFQGSALLKHLRTHHTGERPYPCPCGKAF  
GQSSALLQHQRTHTAERPYPCHGKAFGQSSNLQHHLRIHTGERPYACPHCSKAFGQSS  
ALLQHLHVHSGERPYPYRCQLCGKAFGQASSLTKHKRVHEGAAAAAAAAAAAAAAAAAGLGL  
GPGLSPASMMRPQVSLGPDVSVLGSGLGLSPGTSSGRNPDGSGPGTLPDPSSKPLP  
GSRSTPSPTPVESSDPKAGHDAGPDLVPSDLPVPSPDPDPVSPDPNPVSCPDPCSPT  
RGTVSPALPTGESPEWVQEQGALLGPDG

>sp|Q96PM5|ZN363\_HUMAN RING finger and CHY zinc finger domain-containing protein 1 OS=Homo sapiens GN=RCHY1 PE=1 SV=1

MAATAREDGASGQERQGRGCEHYDRGCLLKAPCCDKLYTCRLCHDNNEDHQLDRFKVKEV  
QCINCEKIQHAQQTCEECSTLFGYYCDICHLFDKDKKQYHCENCGICRIGPKEDFFHCL  
KCNLCLAMNLQGRHKCIENVSRQNCPICLEDIHTSRVVAHVLPCHLLHRTCYEEMLKEG

YRCPLCMHSALDMTRYWRQLDDEVAQTPMPSEYQNMTVDILCNDNCRSTVQFHILGMKC  
KICESYNTAQAGGRRISLDQQ

>sp|Q96SR6|ZN382\_HUMAN Zinc finger protein 382 OS=Homo sapiens GN=ZNF382 PE=2 SV=3  
MPLQGSVSFKDVTVDFTQEEWQQLDPAQKALYRDVMLENYCHFVSVGFHMAKPD MIRKLE  
QGEELWTQRIFPSYSYLEEDGKTEDVLVKFKEYQDRHSRPLIFINHKLIKERSNIYGKT  
FTLGKNRISKTILCEYKPDGKVLKNISELVIRNISPIKEKFGDSTGWEKSLNTKHEKIH  
PAVNLHKQTERVLSGKQELIQHQKVAPEQPPDHNECEKSFLMKGMLFTHTRAHRGERTF  
EYNKDGI AFIEKSSLSVHPSNLMEKKPSAYNKYGKFLCRKPVFIMPQRPQTEEKPFHCPY  
CGNNFRRKSYLIEHQRIHTGEKPYVCNQCGKA FRQKTALT HEKTHIEGKPFICIDCGKS  
FRQKATLTRHHKTHTEKAYECPQCGSAFRKKS YLIDHQRTHTEKPYQCNECGKAFIQK  
TTLTVHQRTHTGEKPYICNECGKSFCQKTTLTLHQRIHTGEKPYICNECGKSFRQKAILT  
VHHRIHTGEKSNGCPQCGKAFSRKS NLI RHQKTHTGEKPYECKQCGKFFSCKSNLIVHQK  
THKVETGTGIQ

>sp|Q494X3|ZN404\_HUMAN Zinc finger protein 404 OS=Homo sapiens GN=ZNF404 PE=1 SV=2  
MARVPLTFSDVAIDFSQEEWEYLSNDQRDLYRDVMLENYTNLVSLDFNFTTESNKL SSEK  
RNYEVNAYHQETWKRNKTFNLMRFIFRTDPQYTIIEFGRQQRPKVGCFSQMIFKKHKS LPL  
HKRNN TREKSYECKEYKKGFRKYLHLTEHLRDHTGVIPYECNECGKAFVVFQHFIRHRKI  
HTDLKPYECNGCEKA FRFYSLIQHQI IHTGMKPYECKQCGKA FRRHSHL TEHQKIHVGL  
KPFECKECGETFRLYRHMCLHQKIHHGVKPYKCECGKA FGHRSSLYQHKKIHSGEKPYK  
CEQCEKA FRVRSYLLVEHQRSHTGEKPHECKE CGKA FGKGSLLKHKRIHSSEKLYDCKDC  
GKAFCRGSQLTQHQR IHTGEKPHECKE CGKTFKLHSYLIQHQI IHTDLKPYECKQCGKA F  
SRVGD LKTHQSIHAGEKPYECKE CGKTFRLNSQLIYHQT IHTGLKPYVCKECKA FR S I S  
GLSQHKRIHTGEKPYECKE CDKAFNRSDRLTQHETIHTGVKPKCKECKGA FSHCYQLSQ  
HQRFH HGERLLM

>sp|Q8TB69|ZN519\_HUMAN Zinc finger protein 519 OS=Homo sapiens GN=ZNF519 PE=2 SV=2  
MELLTFRDVAIEFSPEEWKCLDPAQQNL YRDVMLENYRNVLAVYSYNNQGILPEQGIQ  
DSFKKATLGRYGSCLENICLWKNWESIGEGEGQKECYNLCSQYLTTSHNKH LTVKGDKE  
YRIFQKKPQFLSAAPT EPCIPMNKYQHKFLKSVFCNKNQINFNHSNISKHHSTHFLENY  
YCNCEKVFYQSSKLIFPENIHIQKKPYNSNECGETSDPF SKLTQHQR IYIGESSQR CN  
KKCIIVFSQSHLKGHKIINTGEKSVKYKERGKAFT RGLHLGHQKIHTGEKPYKCKCDKA  
FNKSSHLAQHQRIHTGEKPFKCKE CGKAFNRGSYLTQHQR IHTGERAFKCEECGKA FN RG  
SYLTQHQR IHTGEKPFCKE CGKAFNRSSYVTQHQR MHTGEKPFCKE CGKAFNRASHLT  
QHQR IHTGEKHFCKE CGKAFNRGSHLTRHQRIHTGEKSFKCEECGKA FIWGSHLTQHQR  
VHTGEKFFKCKE CGKAFTRSSHLTQHQR IHTGEKPFKCKE CGKAFNRSTLTQHQI IHTR

>sp|Q96K83|ZN521\_HUMAN Zinc finger protein 521 OS=Homo sapiens GN=ZNF521 PE=1 SV=1  
MSRRKQAKPRSLKDPNCKLEDKTEDGEALDCKKRPEDGEELEDEAVHSCDSCLQVFESLS  
DITEHKINQCQLTDGVDVEDDPTCSWPASSPSSKDQTSPSHGEGCDFGEEEGGGLPYPC  
QFCDKSFSRSLYKHHQSHSDKLPFKCTYCSRLFKHKRSRDRHIKLHTGDKKYHCSECD  
AAFSRSDHLKIHLKTHTSNKP YKCAICRRGFLSSSSLHGMMQVHERNKDGSQSGSRMEDW  
KMKDTQKCSQCEEGFD FPEDLQKHIAECHPECS PNEDRAALQCVYCHELFVEETS LMNHM  
EQVHSGEKKNSCSICSESFHTVEELYSHMDSHQQPESC NHSNSPSLVTVG YTSVSSTTPD  
SNLSVDSSTMVEAAPPIPKSRGRKRAAQQT PDMTGPSSKQAKVTYSCIYCNKQLFSSLAV  
LQIHLKTMHLDPKPEQAHCQYCLEVLPSLYNLNEHLKQVHEAQDPGLIVSAMP AIVYQCN  
FCSEVVNDLNTLQEHIRCSHG FANPAAKDSNAFFCPHCYMGFLT DSSLEEHIRQVHCDLS

GSRFGSPVLGTPKEPVVEVYSCSYCTNSPIFNSVLKLNKHIKENHKNIPALNYIHNGKK  
SRALSPLSPVAIEQTSLKMMQAVGGAPARTGEYICNQCAGKYTSLDSFQTHLKTHLDTV  
LPKLTCPQCNEFPNQESLLKHVTIHFMITSTYYICESCDKQFTSVDDLQKHLLDMHTFV  
FFRCTLQCEVFDKSVSIQLHLAVKHSNEKKVYRCTSCNWDFRNETDLQLHVKNHLENQG  
KVHKCIFCGESFGTEVELQCHITTHSKKYNCKFCSKAFHAILLEKHLREKHCVFETKTP  
NCGTNGASEQVQKEEVELQTLTNSQESHNSHDGSEEDVDTSEPMYGCDCGAAYTMETL  
LQNHQLRDHNIRPGESAIVKKKAELIKGNYKCNVCSRTFFSENGLREHMQTHLGPVKHYM  
CPICGERFPSLLTTEHKVTHSKSLDTGNCRICKMPLQSEEEFLEHCQMHPDLRNSLTGF  
RCVVCMTVTSTLELKIHGTFHMQKTGNGSAVQTTGRGQHVQKLYKCASCLKEFRSKQDL  
VKLDINGLPYGLCAGCVNLSKSPGINVPPGTNRPGLGQENLSAIEGKGKVGGLKTRC  
SSCNVFESESELQNHITIHRELVPDSNSTQLKTPQVSPMPRISPSQSDEKKTQYCIKC  
QMVFYNEWDIQVHVANHMIDEGLNHECKLCSQTFDSPAKLQCHLIEHSFEGMGGTFKCPV  
CFTVQVQANKLQQHIFSAHQEDKIYDCTQCPQKFFFQTELQNHMTQHSS

>sp|Q96C55|ZN524\_HUMAN Zinc finger protein 524 OS=Homo sapiens GN=ZNF524 PE=1 SV=1

MDTPSPDPLPSPLPGEEKPLALSPPVPRGRRGRRPGGATSSNRTLKASLPRKGRPPKS  
GQEPPLVQVQGVTAQVSSGGSDLLIDDDQGVPTVSEGSAAPEGSGRKAPHFCPVCL  
RAFPYLSDLERHSISHSELKPHQCKVCGKTFKRSSHLRRHCNIHAGLRPFRCLCPRRFR  
EAGELAHHRVHSGERPQCPCICRLRFTEANTLRRHAKRKHPEAMGVPLCAPDPGSEPPW  
DEEGIPATAGAEETEGKGEPA

>sp|Q5EBM4|ZN542\_HUMAN Putative zinc finger protein 542 OS=Homo sapiens GN=ZNF542P PE=5 SV=2

MLENYQNLVWLGLSISKSVISLLEKRKLPIWAKEEIRGPLPGYFKVSEMTISQEPKAKT  
RTLFGKDVPGAEIKELSAKRAINEVLSQFDTVIKCTRNVCKECGNLYCHNMQLTLHKRNH  
TQKKCNQCLDCGYFTRQSTLIQHQRHTGERPYKCNCEIKTFNQRAHLT

>sp|Q6P9A3|ZN549\_HUMAN Zinc finger protein 549 OS=Homo sapiens GN=ZNF549 PE=2 SV=2

MAEALVITPQIPMVTEEFVKPSQGHVTFEDIAVYFSQEEWGLLDEAQRCLYHDMLENF  
SLMASVGCLHGIEAEEAPSEQTLQAQGVSAQARTPKLGPSIPNAHSCMCILVMKDILYLS  
EHQGTLPWQKPYTSVASGKWFSGSNLQQHQNQDSGEKHIRKEESSALLNSCKIPLSDN  
LFPCDKVEKDFPTILGLLQHQTTSHRQEYAHRSRETFQRRRYKCEQVFNEKVHVTEHQRV  
HTGEKAYKRREYGKSLNSKYLFEHQRTHNAEKPYVCNICGKSFLHKQTLVGHQQRHTR  
ERSYVCIECGKSLSSKYSLEHQRTHNGEKPYVCNVCCKSFRHKQTFVGHQQRHTGERP  
YVMECKGSFIHSYDRIRHQRVHTGEGAYQCSECKSFIYKQSLDHHRIHTGERPYECK  
ECGKAFIHKRLLEHQRIHTGEKPYVCIICGKSFISSDYMRHQRHTGERAYECSDCGK  
AFISKQTLKHHKIHTRERPYECSECKGFYLEVKLLQHQRIHTREQLCECNECKGVFSH  
QKRLLEHQKVHTGEKPECECKGCFRHTSLIQHQKVHSGERPYNCTACEKAFIYKNKL  
VEHQRIHTGEKPYECKGKAFNKRYSLVRHQKVHTEEP

>sp|Q7Z340|ZN551\_HUMAN Zinc finger protein 551 OS=Homo sapiens GN=ZNF551 PE=1 SV=3

MPAPVGRSPSPRSSMAAVALRDSAQGMFTEDVAIYFSQEEWELLDSEQRFLYCDVMLE  
NFAHVTSLGYCHGMENAIASEQSVSIQVRTSKGNTPTQKTHLSEIKMCPVLKDILPAA  
EHQTTSPVQKSYLGSTSMRGFCFSADLHQHQKHYNNEEPWKRKVDEATFVTGCRFHVLY  
FTCGEAFPAPTDLLQHEATPSGEEPHSSSSKHIQAFFNAKSYKWEYRKASSHKHTLVQ  
HQSVCSEGGLEYECKEAFCTCKNTLVQHQQIHTGQKMFECSECEESFSKKCHLILHKII  
HTGERPYECSDREKAFIHKSEFIHHQRRHTGGVRHECGECKRTFSYKSNLIEHQRVHTGE  
RPYECGECGKSFRQSSSLFRHQRVHSGERPQCCECGKSFRQIFNLIRHRRVHTGEMPYQ

CSDCGKSFSCKSELIQHQRIHSGERPYPECRECGKSFRQFSNLIHRHSIHTGDRPYECSEC  
EKSFSRKFILIQHQRVHTGERPYECSECGKSFTRKSDLIQHRRHTGTGPYECSECGKSF  
RQRSGLIQHRRLLHTGERPYECSECGKSFSQSASLIQHQRVHTGERPYECSECGKSFSQSS  
SLIQHQRGHTGERPYECSCGKPFTHKSDLIQHQRVHTGERPYECSECGKSFSRKSNIIR  
HRRVHTEERP

>sp|Q9HAH1|ZN556\_HUMAN Zinc finger protein 556 OS=Homo sapiens GN=ZNF556 PE=2 SV=1  
MDTVVFEDVVVDFLTLEEWALLNPAQRKLYRDVMLETFKHLASVDNEAQLKASGSISQQDT  
SGEKLCLKQIEKFTRKNIWASLLGKNWEEHSVKDKHNTKERHLSRNPVERPCKSSKGN  
KRGRTFRKTRNCNRHLRKNCTSVRRYECSCGKLFTHSSSLIRHKRAHSGQKLYCKEC  
GKAFSRPSYLQTHEKTHSGEKPYACQSCGKTFLRSHSLTEHVRTHTGEKPYECGQCGKGF  
SCPKSFRAHVMHAGGRPYECKHCGKAFCQKSFVRVHMIMHAGGRPYECKQCGKAYCWAT  
SFQRHVRHNGEKPYKCGKCGAFGWPSLHKHARTHAKKKPVSGGSGKSSARPRPSTD  
VKSQTREKVYKCETCGKTYGWSSSLHKHERKHTGEKPVNAASVGKPSGGLCSSKNVRTQI  
GQKPSKCEKCGKAFCPKAFQGHVRSHTGKKSCTSK

>sp|Q9BR84|ZN559\_HUMAN Zinc finger protein 559 OS=Homo sapiens GN=ZNF559 PE=1 SV=1  
MVAGWLTNYSQDSVTFEDVAVDFTQEEWTLLDQTQRNLYRDVMLENYKNLVAVDWESHIN  
TKWSAPQQNFLQGKTSVVEMERNHFGELDFDNQCEKALSEHSCLKTHRRTYFRKKTCE  
CNQCEKAFCRPSIFTLHKKTDIGEELPNCNQCEAFSQHLHLVCKKTSQNLHLVCKKTH  
QEKPYKCSDEKGLPSSSHLRECVRIYGGERPYPYTHKEYVETFSHSTALFVHMQTDGEKF  
YECKACGKPFTESSYLQHLRTHSRVLPIDHKKFGKAFSPDLAKHIRLRTRGKHVYCN  
ECGKEFTCFSKLNIHVRHTGEKPYECNKGKAFDSSGLIKHRRHTHTGEKPYECKECKG  
AFANSSHLTVHMRHTHTGEKPYCKECKGAFINSSSFKSHMQTHPGVKPYDCQCGKAFIR  
SSFLIRHLRSHSAERPFEECECGKAFCRYSSHLQHKRIHTGERPYKCKGQAFSISGL  
TVHMRHTHTGERPFECQECGKAFCRSTYLIRHLRSHSVEKPYECKGQTFSSSCLTECV

>sp|Q96NI8|ZN570\_HUMAN Zinc finger protein 570 OS=Homo sapiens GN=ZNF570 PE=2 SV=1  
MAVGLLKAMYQELVTFRDVAVDFSQEEWDCLDSSQRHLYSNVMLENYRILVSLGLCFSKP  
SVILLLEQGKAPWMVKRELTKGLCSGWEPICETEELTPKQDFYEEHQSQKIETLTSYNL  
EYSSLREEWKCEGYFERQPGNQKACFKEEIITHEEPLFDEREQEYKSWGFSHQNPPLCTQ  
KIIPKEEKVHKHDTQKRSFKKLNMAIKPKSVCAEKKLLKNDCEKVFSQSSSLTLHQRIH  
TGEKPYKCIIEGKAFCQRSNLVQHRIHTGEKPYECKECKRKAFCQNAHLVQHRLRVHTGEK  
PYECKVCRKAFCQFAYLAQHQRVHTGEKPYECIEGKAFCNRSIAQHQRVHTGEKPYEC  
NVCGKAFCSLRAYLTVHQRIHTGERPYECKECKGKAFCQNSHLAQHQRHTGEKPYKQECR  
KAFCQIAYLAQHQRVHTGEKPYECIEGKAFCNDSSLTQHQRVHTGEKPYECTVCGKAFC  
YCGSLAQHQRHTGERPYECKECKKTFRQHAHLAHHQRIHIGESLSPNPVNHQVL

>sp|Q6ZN55|ZN574\_HUMAN Zinc finger protein 574 OS=Homo sapiens GN=ZNF574 PE=1 SV=2  
MTEESEETVLYIEHRYVCSECNLYGSLEEVLMHQNSHVPQQHFELVGADPGVTVATDT  
ASGTGLYQTLVQESYQCLECGQLLMSPSQLLEHQELHLKMMAPQEAAPAEPSKAPPLS  
SSTIHYECVDCKALFASQELWLNHRQTHLRATPTKAPAPVVLGSPVVLGPPVGQARVAVE  
HSYRKAEEGGEGATVPSAAATTEVVTEVELLLYKCECSQLFQLPADFLEHQATHFPAP  
VPESQEPALQQEVQASSPAEVPVSQPDPLASDHSYELRNGEAIGRDRRGRRARRNNSGE  
AGGAATQELFCSACDQLFLSPHLQQLRSHREGVFKCPLCSRVPSPSSLDQHLGDHSS  
ESHFLCVDCLAFGTALLAHRAHTPNPLHSCPCGKTFVNLTKFLYHRRTHGVGGVPL  
PTTPVPPEEPVIGFPEPAPAETGEPEAPEPPVSEETSAGPAAPGTyrCLLCSREFGKALQ  
LTRHQRVHRLERRHKCSICGMFKKKSHVRNHLRTHHTGERPFPCPDCSKPFNSPANLAR

HRLTHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHFPYRCQECGVRFHRYRLLMHRYH  
HTGEYPYKCRECPRSFLRLRLLLEVHQLVVHAGRQPHRCPCGAAPSSLRLREHRCAAAA  
AQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAGPGEVLAKEPPAPRAPRATRAPVASPAA  
LGSTATASPAAPARRRGLECKKLFSTETSLQVHRRHTGERPYPCDPCGKAFRQSTH  
LKDHRRLHTGERPFACEVCGKAFAISMRLAEHRRHTGERPYSCDPCGKSYRSFSLWKH  
RKTHQQQHQAARVQQLAEAEAAVGLAVMETAVEALPLVEAIEIYPLAEAEQVQISG

>sp|Q96NG8|ZN582\_HUMAN Zinc finger protein 582 OS=Homo sapiens GN=ZNF582 PE=2 SV=1

MSLGSELFRDVAIVFSQEEWQLAPAQRDLYRDVMLETYSNLVSLGLAVSKPDVISFLEQ  
GKEPMMVERVVSGLCPVLESRYDTKELFPKQHVYEVESESPQWEIMESLTSYGLECSSFQD  
DWEERNQFDRQQGNPDRHFHQMIIRHEEMPTFDQHASLTFYQKIHTREKPFQYKCRKDF  
WQKELLINHGGIYNEKPYKCECKGAFKYGSRLLQHENIHSGKKPYECKECKGAFNSGS  
NFIQHQRVHTGEKPYECKDCEKAFSRSSQLIEHQRTHTGEKPYQCKECKGAFNRISHLKV  
HYRIHTGEKPYACKECKGTFSHRSQLIHQTVHTGRKLYECKECKGAFNQGSTLIRHQRI  
HTGEKPYECKVCGKAFRVSSQLKQHRIHTGEKPYQCKVCGRAFKRVSHLTVHYRIHTGE  
KPYECKECKGAFSHCSQLIHHQVIHTEKKPYEYKECEKTLSDSTTVQPMHNRETHVN  
IINVEKPSISSYPLLIREFMLASNHMNGSNGESPLA

>sp|Q96ND8|ZN583\_HUMAN Zinc finger protein 583 OS=Homo sapiens GN=ZNF583 PE=2 SV=2

MSKDLVTFGDVAVNFSQEEWELNPAQRNLVRKVMLENYRSLVSLGVSVPKPDVISLLEQ  
GKEPMMVKKEGTRGPCPDWEYVFNSEFSSKQETYEESKVVTVGARHLSYSLDYPRLRE  
DCQSEDWYKNQLGSQEVHLSQLIITHKEILPEVQNKEYNKSQWTFHQDTIFDIQQSFPTK  
EKAHKHEPQKKSIRKKSVMKHKRVYVEKLLKCNDCQKVFNQSSSLTLHQRIHTGEKPY  
ACVECGKTFSSQANLAQHKRIHTGEKPYECKECKRKAFSQNAHLAQHQRVHTGEKPYQCKE  
CKKAFSQIAHLTQHQRVHTGERPFECIECGKAFSNGSFLAQHQRHTGEKPYVCNVCGKA  
FSHRGYLIVHQRIHTGERPYECKECKRKAFSQYAHLAQHQRVHTGEKPYECKVCRKAFSQI  
AYLDQHQRVHTGEKPYECIECGKAFSNGSSLAQHQRSHTEKPYMCKECKRKTFSQNAQGLA  
QHQRHTGEKPYECNVCGKAFSYSGSLTLHQRIHTGERPYECKDCRKSFRQRAHLAHHHER  
IHTMESFLTLSSPSPSTSNQLPRPVGFIS

>sp|Q92610|ZN592\_HUMAN Zinc finger protein 592 OS=Homo sapiens GN=ZNF592 PE=1 SV=2

MGDMKTPDFDLDLLAAFDIPDPTSLDAKEAIQTPSEENESPLKPPGICMDESLSHSGSA  
PDVPAVSVIVKNTSRQESFEAEKDHI TPSLLHNGFRGSDLPDPHNCCKFDSTFMNGDSA  
RSFPGKLEPPKSEPLPTFNQFSPISSEPEDPIKDNGFGIKPKHSDSYFPPPLGCGAVGG  
PVLEALAKFPVPELHMFDFCKKEPKPEPLPLGSQQEHEQSGQNTVEPHKDPDATRFFGE  
ALEFNHSPSNSIGESKGLARELGTCSVPPRQRLKPAHSLSSCVAALVALQAKRVASVT  
KEDQPGHTKDLGPTKESKSGSPKMPKSPRSPLEATRKS IKPSDSPRSICDSSSKG  
SPSVAASSPPAIPKVRITIKTSSGEIKRTVTRILPDPPDPKSPVGSPLGSAIAEAPSE  
MPGDEVVPEEHFPEAGTNSGSPQGARKGDESMTKASDSSSPSCSSGPRVPKGAAPGSQTG  
KKQQTALQASTLAPANLLPKAVHLANLNVPHSVAASVTAKSSVQRRSQPQLTQMSVPL  
VHQVKAAPLIVEVFNKVLHSSNPVPLYAPNLSPPADSRIHVPASGYCCLECGDAFALEK  
SLSQHYGRRSVHIEVLCTLCSKTLLFFNKCSLLRHARDHKSGLVMQCSQLLVKPI SADQ  
MFVSAPVNSTAPAAPSSSPKHGLTSGSASPPPPALPLYDPVRLIRYSIKCLECHKQM  
RDYMVLA AHFQRTTEETGLTCQVCQMLLPNQCSCFAHQRIHAHKSPYCCPEGVLCRSA  
YFQTHVKENCLHYARKVGYRCIHCGVVHLTLALLKSHIQERHCQVFHKCAFCPMAFKTAS  
STADHSATQHPTQPHRSQLIYKCSCEMVFNKKRHIQQHFYQNVSKTQVGVFKCECPPLL  
FVQKPELMQHVKSTHGVPRNVDELSSLQSSADTSSSRPGSRVPTEPPATSVAAARSSSLPS

GRWGRPEAHRREARPRRLNTGWTQCQEWVPDRESYVSHMKKSHGRTLKRYPCRQCEQ  
SFHTPNSLRKHIRNNHDTVKKFYTCGYCTEDSPSFPRPSLLESHISLMHGIRNPDLSQTS  
KVKPPGGHSPQVNHLLKRPVSGVDAPGTSNGATVSSTKRHKSFLQCAKCSFATDSGLEFQ  
SHIPQHQVDSSTAQCLLCGLCYTSASSLSRHLFIVHKVRDQEEEEEEEEAAAAEMAVEVAE  
PEEGSGEEVPMETRENGLEECAGEPLSADPEARRLGPAPEDDGGHNDHSQPQASQDQDS  
HTLSPQV

>sp|000488|ZN593\_HUMAN Zinc finger protein 593 OS=Homo sapiens GN=ZNF593 PE=1 SV=2  
MGRSRRTGAHRAHSLARQMKAKRRRPDLDEIHRELRPQGSARPQDPNAEFDPDLPGGGL  
HRCLACARYFIDSTNLKTHFRSKDHKKRLKQLSVEPYSQEEAERAAGMSYVPPRRLAVP  
TEVSTEVPEDTST

>sp|Q96LX8|ZN597\_HUMAN Zinc finger protein 597 OS=Homo sapiens GN=ZNF597 PE=2 SV=1  
MASMPPTPEAQGPILFEDLAVYFSQEECVTLHPAQRSLSKDGTKESEDAALMGEEGKPE  
INQQLSLESMEDELALAEKYPIAAPLPVYPEKSSSEDGVGNPEAKILSGTPTYKRRVISLL  
VTIENHTPLVELSEYLGNTLSEILDSPWEGAKNVYKCECDQNFSDHSYLVLHQKIHS  
EKKHKCGDCGKIFNHRANLRTHRIHTGEKPYKCAKCSASFRQSHLSRHMNSHVKEKPY  
TCSICGRGFMWLPGLAQHQKSHAENTYESTNCDKHFNEKPNLALPEETFVSGPQYQHTK  
CMKSFRQSLYPALSEKSHDEDSERCSDDGDNFFSFSKFKPLQCPDCDMTFPCFSELISHQ  
NIHTEERPHKCKTCEESFALDSELACHQKSHMLAEPFKCTVCGKTFKSNLHLITHKRTHI  
KNTT

>sp|Q9ULD9|ZN608\_HUMAN Zinc finger protein 608 OS=Homo sapiens GN=ZNF608 PE=1 SV=4  
MSVNI STAGKVDPTVD TYDSGDWEIGVGNLIIDLDADLEKDRQKFEMNNSTTTSSS  
NSKDCGGPASSGAGATAALADGLKFASVQASAPQGNSHKETSKSKVKRSKTSKDANKSLP  
SAALYGIPEISSTGKRQEVQGRPEATGMNSALGQSVSSGGSGNPNSNSTSTSTAATAG  
AGSCGKSKEEKP GKSQSSRGAKRDKDAGKSRKDKHDL LQGHQNGSGSQAPSGGHL YGFGA  
KSNGGGASPFHCGGTGSGSVAAAGEVSKSAPDSGLMGNSMLVKKEEEEEESHRIKKLKT  
EKVDPLFTVPAPPPP ISSSLTPQILPSYFSPSSSNIAAPVEQLLVRTSVGVNTCEVGVV  
TEPECLGPCEPGTSVNLEGI VWHETE EGVLVVNV TWRNKTYVGTLLDCTKHDWAPPRFCE  
SPTS DLEM RGGRGGRKARSAAAAPGSEASF TESRGLQKNRGGANGKRRGSLNASGRR  
TPPNC AAEDIKASPSSTNKRKNKPPMELDLNSSSEDNKP GKRVRTNSRSTPTTPQGKPET  
TFLDQGCSSPVLIDCPHPNCNKYKHINGLRYHQAHAHLDPENKLEFEPDSEDKISDCEE  
GLSNVALECEPSTSVSAYDQLKAPASPGAGNPPGTPKGKRELM SNGPGSIIGAKAGKNS  
GKKKGLNNELNNLPVISNMTAALDSCSAADGSLAAEMPKEAEG LDKKNLGDKEKGKKA  
TNCKTDKNLSKLKSARPIAPAPAPTPPQLIAIPTATFTTTTGTIPGLPSLTTTVVQATP  
KSPPLKPIQPKPTIMGEPITVNPALVSLKDKKKKEKRKLKDEKETGSPKMDAKLGKLE  
DSKGASKDLPGHFLKDLHNKNEGLANGLSESQESRMASIKAEADKVYTF TDNAPSPSIGS  
ASRLECSTLVNGQAPMAPLHVL TQNGAESSAAKTSSPAYSDISDAADDGGSDSRSEGMRS  
KASSPSDI ISSKDSVVKHSSTTAQSSQLKESHSPYYHSYDPYYSPSYMHPGQVGAPAAG  
NSGSTQGMKIKKESEEDA EKKDKAEQLDSKKVDHNSASLQPQHQS VITQRHPALAQSLYY  
GQYAYGLYMDQKSLMATSPAYRQQYEKY YEDQRLAEQKMAQTGRGDCERKSELPLKELGK  
EETKQKNMPSATISKAPSTPEPNKNH SKLGPSVPNKTEETGKSQLLSNHQQQLQADS FKA  
KQMENHQLIKEAVEMKSVMDSMKQTGVDP TSRFKQDPDSRTWHHYVYQPKYLDQQKSEEL  
DREKKLKEDSPRKT PNKESGVPSLPVSLTSIKEEPKEAKHPDSQSMEESKLNDDRKTPV  
NWKDSRGRTRVAVSSPMSQHQS YIQYLHAYPYPMYDP SHPAYRAVSPVLMHSYPGAYLSP  
GFHYPVYGKMSGREETEKVNTSPSVNTKTTTESKALDLLQ QHANQYRSKSPAPVEKATAE

REAEERERDRHSPFGQRHLTHHHHTVGMGYPLIPGQYDPFQGLTSAALVASQQVAAQA  
SASGMFPGQRRE

>sp|Q8N823|ZN611\_HUMAN Zinc finger protein 611 OS=Homo sapiens GN=ZNF611 PE=2 SV=2

MLREEAAQKRKGKEPGMALPQGRLTFRDVAIEFSLAEWKCLNPSQRALYREVMLENYRNL  
EAVDISSKCMMEVLSTGQGNTTEVIHTGTLQRHESHIGDFCFQEIEKEIHDIEFQCQED  
ERNGLEAPMTKIKKLTGSTDQHDHRHAGNKPIKDQLGSSFYSHLPELHIFQIKGEIGNQL  
EKSTNDAPSVSTFQIRISCRPQTQISNNYGNPLNSSLLPQKQEVHMREKSFQCNKSGKAF  
NCSSLLRKHQIPHLGDKQYKCDVCGKLFNHEQYLACHDRCHTVEKPYKCKEKGKTFSES  
SLTCHRRLLHTGVKRYNCNECGKIFGQNSALLIDKAIDTGENPYKNECDKAFNQSSQLSH  
HRIHTGEKPYKCEECDKVFSRKSTIETHKRIHTGEKPYRCKVCDTFTWHSQARHRRIH  
TAKKTYKNECGKTFSHKSSLVCHHRLHGGEKSYKCKVCDKAFVWSSQLAKHTRIDCGEK  
PYKNECGKTFGQNSDLLIHKSHTGEQPYKCECEKVFSSRKSSLETHKIGHTGEKPYKC  
KVCDKAFACHSYLAKHTRIHSGEKPYKNECSKTFSHRSYLVCHHRVHSGEKPYKNECS  
KTFSSRSSLHCHRRLLHSGEKPYKNECGNTFRHCSSLIYHRRLLHTGEKSYKCTICDKAFV  
RNSLLSRHTRIHTAEKPYKNECGKAFNQSSLSRHHRIHTGEKP

>sp|Q6ZNG0|ZN620\_HUMAN Zinc finger protein 620 OS=Homo sapiens GN=ZNF620 PE=2 SV=1

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SQLEQGELPWGLDPWEPMGREALRGICPGDEARTEKEGLTPKDHVSKETESFRLMVGGLP  
GNVSQHLDGSSLEQPQGHWI IKTSKRRHFTDTSARHHEAYEVKNGEKFELGKNISVS  
TQLTTNQTNPSGGISYECGQCGRYFIQMADFHRHEKCHTGEKSFECKECKGYFRYNSLLI  
RHQI IHTGKKPFKCKECKGLSSDTALIQHRIHTGEKPYECKECKGAFSSSVFLQHQR  
FHTGEKLYECNECWKTFSCSSSFTVHQRMHTGEKPYECKECKGRLSSNTALTQHQRHTG  
EKPFECKECKGAFNQKITLIQHQRVHTGEKPYECKVCGKTFSWCGRFILHQLHTQKTPV  
QA

>sp|Q969S3|ZN622\_HUMAN Zinc finger protein 622 OS=Homo sapiens GN=ZNF622 PE=1 SV=1

MATYTCITCRVAFRADMQRHYKTDWHRYNLRRKVASMAPVTAEGFQERVRAQRAVAEE  
ESKGSATYCTVCSKKFASFNAYENHLKSRRHVELEKKAVQAVNRKVEMNEKNLEKGLGV  
DSVDKDAMNAAIQQA IKAQPSMSPKAPPAPAKEARNVVAVGTGGRGTHDRDPSEKPPRL  
QWFEQQAQKLAKQKEEDSEEEEDLDGDDWEDIDSDEELEDTEAMDDVVEQDAEEEEA  
EEGPPLGAIPITDCLFCSSHSSLMKNVAHMTKDHSFFIPDIEYLSDIKGLIKYLGEKVG  
VGKICLCWNEKGKSFYSTAVQAHMNDKSHCKLFTDGDAALEFADFYDFRSSYPDHKEGE  
DPNKAEELPSEKNLEYDDETMELILPSGARVGHRLMRYKQRFGLSRAVAVAKNRKAVG  
RVLQQYRALGWTGSTGAALMRERDMQYVQRMKSKWMLKTGMKNNATKQMHFRVQVRF

>sp|Q9P2J8|ZN624\_HUMAN Zinc finger protein 624 OS=Homo sapiens GN=ZNF624 PE=1 SV=3

MSLQDSTLSREGKPEGEIMAAVFFSVGRLSPEVTQPDLDLHLQAEETQLVKESVTFKDVA  
IDFTLEEWRLMDPTQRNLHKDVMLENYRNLVSLGLAVSKPDMISHLENGKGPWVTVREIS  
RIPYDMEPKPATKATRTKAISEDLSQEAILEKLTENGLWDSRMEGLWKWNRILRLQN  
NQENHLSQRIIPLKKTPTSQRGFRFESILIPPGIATEELHSRCQTQEENFTENLNLITD  
THLGKIIICKEMKSKAIRQTSELTLGKKSNNKEKPYKSTCEKAFHYRSLLIQHQRTHK  
EKPYECNECGKTFSPSYLSQHKKIHTGEKPYKNECGKAFIASSSLMVHQRIHTKEKPY  
QCNVCGKSFSQCARLNQHQRIQTGEKPYKSECGKAFSDKSKLARHQETHNGEKPYKCDD  
CGKAFRNKSYLSVHQKTHTEEPYQNECGKSFKNITIFNVHQRIHTGEKPFRCNECGKA  
YRSNSSLIVHIRTHTGEKPYECNECGKAFNRIFANFTEHQRIHTGEKPYKNECGKAFINY  
SCLTVHHRMHTGEKPYKTECGKAFMRSSSLIIHQRIHTEEPYLCNECGESFRIKSHLT

VHQR IHTGEKPYKCTDCERAFTKMVNLKEHQKIHTGVKPYKCYDCGKSFRTKSYLIVHQR  
THTGEKPYKCNECEKAFTNTSQLTVHQRRHTGEKPYKCNECGKVFTSNSGFNTHQRTHTG  
EKPFKCNDCGKAFSQMVHVTEHQKIHSGEKPYKCDVCGKAFRRGSYLTVHWRTHTGEKPY  
TCKEKGKGCITLSQLTLHQRIHTGERPYKCEECGKAFRTNSDFTVHLRMHTGEKPYKCNE  
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>sp|Q7L945|ZN627\_HUMAN Zinc finger protein 627 OS=Homo sapiens GN=ZNF627 PE=1 SV=1  
MDSVAFEDVAVNFTLEEWALLDPSQKNLYRDMRETFRNLASVGKQWEDQNIEDPFKIPR  
RNISHIPERLCESKEGGQEETFSQIPDGILNKKTPGVKPCSSVCGEVGMGPSSSLNRHI  
RDHTGREPNEYQEYGGKSYTRNQCGRALSYHRSFPVRERTHPGGKPYDCKEGETFISLV  
SIRRHMLTHRGGVPYKCKVCGKAFDYP SLFRIHERSHTGEKPYECKQCGKAFSCSSYIRI  
HERTHTGDKPYECKQCGKAFSCSKYIRIHERTHTGEKPYECKQCGKAFRCASSVRSHERT  
HTGEKLFECKEKGKALTCLASVRRHMIKHTGNGPYKCKVCGKAFDFPSSFRIHERTHTGE  
KPYDCKQCGKAFSCSSSFRKHERIHTGEKPYCKTCGKAFSRSSYFRIHERTHTGEKPYE  
CKQCGKAFSRSTYFRVHEKIHTGEKPYENPNPNASVVPVLS

>sp|Q96N77|ZN641\_HUMAN Zinc finger protein 641 OS=Homo sapiens GN=ZNF641 PE=1 SV=2  
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LCCDLEEEPSQLQEKAQSAPWVPAIPQEGNTGDWEMAAALLAAGSQGLVTIKDVSLCFSQ  
EEWRSLDPSQTDIFYGEYVMQENCGIVVSLRFPKPLDMLSQLEGEEQWVPDPQDLEERD  
ILRVTYTGDGSEHEGDTPELEAEPPRMLSSVSEDTV LWNPEHDESWDMPSSSRGMLLGP  
PFLQEDSFSNLLCSTEMDSLRLPHTPCQCGKQFVWGSHLARHQQTHTGERPYSLCKCEKT  
FGRRHHLIRHQKTHLHDKTSRCSECGKNFRCNHSLASHQRVHAEGKSCKGQEVGESPGTR  
KRQRAPPVPKCHVCTECGKSFGRRHHLVRHWLTHTGEKPFQCPRCEKSFGRKHHLDRHLL  
THQGQSPRNSWDRGTSVF

>sp|Q9Y2D9|ZN652\_HUMAN Zinc finger protein 652 OS=Homo sapiens GN=ZNF652 PE=1 SV=3  
MSHTASSCQELVENC AVHVAGMAQEDSRRGQVPSSFYHG ANQELDLSTKVYKRESGSPYS  
VLVDTKMSKPHLHETEEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEVS YKREQUIVE  
VNLNNQTLNVSKGEKGVSSQSKETPVLKTSSEEEEESEEEATDDSN DYGENEKQKKKEK  
IVEKVSVTQRRTRRAASVAAATTSPTPRTRGRRKSV EPPKRKKRATKEPKAPVQKAKCE  
EKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELSLHQQTDC EKNIQ  
CVSCNKSFKKLWSLHEHIKIVHG YAEKKFSCEICEKKFYTMAHVRKHMVAHTKDMPTCE  
TCGKSFKRMSLVHSLQHSGEKPFRCENC DERFQYKYQLRSHMSIHGHKQFMCQWCGK  
DFNMKQYFDEHMKTHTEKPFICEICGKSFTSRPNMKRHRRTHTGEKPYPCDVCGQRFRF  
SNMLKAHKEKCFRVTS PVNVPPAVQIPLTTPATPVPSV VNTATTPTPINMNPVSTLPP  
RPIPHPFSLHLIHPHPHPHHLPIPPVPHLPPPPALFKSEPLNHRGQSEDNFLRLAEKN  
SSAQHH

>sp|Q8IZM8|ZN654\_HUMAN Zinc finger protein 654 OS=Homo sapiens GN=ZNF654 PE=2 SV=3  
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QDDQEVTALEEINCSSSISFENGNSDKDLEVETLTASSEGNKEV IPEHVAEFIEIPIS  
VPEDVIENVIENGSPNNSLNNVFKPLTECGDDYEEEEDEEGDY EDDYDLNQETSVIHKI  
NGTVCHPKDIYATDQEGNFKCPALGCVRIFKRIGFLNKHAMTVHPTDLNVRQTVMKWSKG  
KCKFCQRQFEDSQHFIDHLNRHSYPNVYFCLHFN CNESFKLPFQLAQHTKSHRIFQAQCS  
FPECHELFEDLPLLYEHAQH YLSKTPESSAQPSETILWDVQTD SNPNQEKDSSSNEKQT  
ISLPVSTSKSRKESTEPKTCIESMEKKTDSLQNGNERSDDTVSNISLIDQKMPDIEPNS  
ENNCSSSDIVNGHSEIEQTPLVSSDPALKIDTNRIRTENG SILPSVVPQEHNTLPVSQAP



SKPNLTSEHTSYGLILTKPYVRPLPPSYLDERYLSMPKRRKFLTDRVDACSDQDNVYKKS  
VKRLRCGKCLTTYCNAEAEHLAQKKCQTLFGFSDDESA

>sp|Q5TYW1|ZN658\_HUMAN Zinc finger protein 658 OS=Homo sapiens GN=ZNF658 PE=2 SV=2

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EKGEEPWSLEDEFLNQRYPGYFKVDHIKGIREEKQEKPLWQEIFISDADKLSKEGQKVLE  
KPFNLEIAPELSEKISCKCDSHRMNLPVASQLIISERKYSRKKTEYMNVCEKLQLDIKHE  
KAHAEEKSYEHGENAKAFSYKKDQHWKFQTLSESFECDSGGGLYDKTICITPQSFLTGE  
KSCKDDEFRKNFDKITLFNHMRDTRGKCSDLNEYGTSCDKTTAVEYNKVHMAMTHYECN  
ERGINFSRKSPLTQSQRTITGWSAFESNKCEENFSQSSAHIVHKTQAGDKFGEHNECTD  
ALYQKLDFTAHRQRIHTEDKFYLSDEHGKCRKSFYRKAHLIQHQRPHSGEKTYQYEECAKS  
FCSSSHPIQHPTGYVGFKLYECNECGKAFQNSNLSKHLRIHTKEKPCDNNCGRSYKSP  
LIGHQKTAEMELCGGSEYGKTSHLKGHRILMGEKPYECIECGKTFSTSHLRAHQRIH  
TGEKPYECVECEKTFSHKTHLSVHQRVHTGEKPYECNDCGKSFTYNSALRAHQRIHTGEK  
PYECSDCEKTFAHNSALRAHHRHTGEKPYECNECGRSFAHISVLKAHQRIHTGEKPYEC  
NECGRSFTYNSALRAHQRIHTGRKPYECSDCEKTFAHNSALKIHQRIHTGEKPYECNECE  
KTFAHNSALRAHQNIHTGEKLYECSECGKTFQKTRLSTHRRHTGEKPYECCKGKTF  
QKSYLSGHERHTGEKPYECNCGKTFVYKAALIVHQRIHTGEKPYECNCGKTFQKTRH  
LCAHQRIHTGEKPYECNECGKTFADNSALRAHHRHTGEKPYECNDCGKTFSTSHLRAH  
LRTRSGEKPYECSECGKTFSEKSYVSAHQRVHTGEKPYECNCGKPFHNSTLRVHQRIH  
TGEKSYECNDCGKTFQKSHLSAQRIHTGEKPYECNECGKAFQNSTLRVHQRIHTGEK  
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>sp|Q499Z4|ZN672\_HUMAN Zinc finger protein 672 OS=Homo sapiens GN=ZNF672 PE=2 SV=2

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RRTHAGQTLTYICSECGQSFRHSGRLDLHLGAHRQRCRTCPCRTCGRRFPHLPALLHRRR  
QHLPERPRRCPLCARTFRQSALLFHQARAHLGTTSDPAAPPHRCACPRAFRSGAGLRS  
HARIHVSRSPTPRVSDAHQCGVCGKCFGKSSTLTRHLQTHSGEKPFKCECGKFLESA  
TLVRHQRTHTGEKPYACGDCGRCFSESSTLLRHRRSHQGERPHACATCGKGFQGRSDLVV  
HQRIHTGEKPFACPECGRRFSDRSDLTKHRRHTHTGEKPYRCELCGKRFTCVSNLNVHRRN  
HAGHKPHKCEPSKAFSVASKLALHRKTHLGERPAECAECGKCFSHSRSLSQHQAHTRA  
RTAAAVAIQSAVGTAALVFEGPAEQEKPGFSVS

>sp|Q2M3X9|ZN674\_HUMAN Zinc finger protein 674 OS=Homo sapiens GN=ZNF674 PE=2 SV=1

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GPGDESWMADGGTPVRTCAGEDRPEVWEVDEQIDHYKESQDKFLWQAAFIGKETLKDESG  
QECKICKRIIYLNDFVSVKQRLPKYYSWERCSKHHLNFLGQNRSYVRKKDDGCKAYWKV  
CLHYNLHKAQPAERFFDPNQRGKALHQKQALRKSQRSQTGEKLYKCTECGKVFQKANLV  
VHQRTHTGEKPYECCECAKAFSQKSTLIAHQRTHTGEKPYECSECGKTFIQKSTLIKHQ  
THTGEKPFVCDKCPKAFKSSYHLIRHEKTHIRQAFYKGIKCTTSSLIYQRIHTSEKPCS  
EHGKASDEKPSPTKHWRHTKENIYECCKGKSFSGKSHLSVHQRIHTGEKPYECICGK  
TFSGKSHLSVHHRHTHTGEKPYECRRCGKAFGEKSTLIVHQRMHTGEKPYKCNECGKAFSE  
KSPLIKHQRIHTGERPYECTDCKKAFSRKSTLIKHQRIHTGEKPYKCECGKAFSVKSTL  
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>sp|Q9BU19|ZN692\_HUMAN Zinc finger protein 692 OS=Homo sapiens GN=ZNF692 PE=1 SV=1

MASSPAVDVSCRRREKRRQLDARRSKCRIRLGHHMEQWCLLKERLGFSLHSQAKFLDDR  
YTSSGCVLCAGPEPLPPKGLQYLVLLSHAHSRECSLVPGLRPGGQDGGGLVWECSAGHTF

SWGPSLSPTPSEAPKPASLPHTTRRSWCSEATSGQELADLESEHDERTQEARLPRRVGPP  
PETFPPPGEEEEEEEEEDNDEDEEEMLSASLWYSSSPDDSEPDAPELLPSPVTCTPKEG  
ETPPAPAAALSSPLAVPALSSASSLSSRAPPAEVRVQPLSRTPQAAQQTEALASTGSQAA  
SAPTPAWDEDTAQIGPKRIRKAAKRELMPCDFPGCGRIFSNRQYLNHHKKYQHIIHQKSFS  
CPEPACGKSFNFKKHLKEHMKLHSDTRDYICEFCARSFRTSSNLVIHRRIHTEKPLQCE  
ICGFTCRQKASLNWHQRKHAETVAALRFPCEFCGKRFEKPDVAAHRSKSHPALLLAPQE  
SPSGPLEPCPSISAPGPLGSSEGRSPASPAQTLLPQQ

>sp|Q9Y5V0|ZN706\_HUMAN Zinc finger protein 706 OS=Homo sapiens GN=ZNF706 PE=1 SV=1  
MARGQQKIQSQQKNKKQAGQKKKQGHDKAAAKAALIYCTVCRTPMPDPKTFKQHFES  
KHPKTPLPPELADVQA

>sp|Q92670|ZN75C\_HUMAN Putative zinc finger protein 75C OS=Homo sapiens GN=ZNF75CP PE=5  
SV=2

MIMRELKADACLNSHMGAMWETNRSVKENSSQSKKYSTQIECLSPGSACRHFERSFHYHEA  
TEPLEAINQLKQLCHQWLRPEIHSKKHILEMLVLEHFLTILPKGTQNWVQKHHPQLAKQA  
LVLVERLQREPGGTKNEVTAHELGEAVLLRGTTVAPGFKWKPAELEPMERILEHIQILA  
LSEHKSTKDWKMAPKLIWPESQSLTFEDMAVYFSEEEWQLLGPLEKTYNDVMQDIYET  
AISLGKQRTGKIMGIEMASSFSKEEKKLTTCQELPKLMDLHGKGHTGEKPFKCQDCGKI  
FRVSSDLIKHQRIHTEEKLYKCQCCDRFRWSSGLNKHFMTHQGINPYRCSWYGKSISYD  
TNLQTHQRIHTGEKPFKCECGKIFIHKSNIKYQRTHTGEQPYTCSICRRNFSRQLSLL  
RHQKLH

>sp|Q15649|ZNHI3\_HUMAN Zinc finger HIT domain-containing protein 3 OS=Homo sapiens  
GN=ZNHI3 PE=1 SV=2

MASLKCSTVVCICLEKPKYRCACRVPYCSVVCFRKHKEQCNPETRPVEKKIRSALPTK  
TVKPVENKDDDDSIADFLNSDEEEDRVSLQNLKNGESATLRSLLLPHLRQLMVNLDQG  
EDKAKLMRAYMQEPLFVEFADCCLGIVEPSQNEES

>sp|Q9ULT6|ZNR3\_HUMAN E3 ubiquitin-protein ligase ZNR3 OS=Homo sapiens GN=ZNR3 PE=1  
SV=3

MRPRSGRPGATGRRRRRLRRRPRGLRCSRLPPPPPLPLLGLLLAAAGPGAARAKETAF  
VEVVLFESSPSGDTYTTTGLTGRFSRAGATLSAEGEIVQMHLGLCENNDEEDLYEYGW  
VGVVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQSEDPLKRPV  
VYVKGADAIKLMNIVNKQKVARARIQHRPPRQPTEYFDMGIFLAFFVVVSLVCLILLVKI  
KLKQRRSQNSMNRLAVQALEKMETRKFNSKSKGRREGSCGALDTLSSSTSDCAICLEKY  
IDGEELRVIPCTHRFHRKCDPWLLQHHTCPHCRHNIIEQKGNPSAVCVETSNLSRGRQQ  
RVTLPHVHPGRVHRTNAIPAYPTRTSMDSHGNPVTLLTMDRHGEQSLYSPQTPAYIRSYP  
PLHLDHSLAAHRCGLEHRAYSAPHPFRPKLSGRSFSKAACFSQYETMYQHYYFQGLSYP  
EQEGQSPPSLAPRGPARAFPPSGSGLLFPTVVHVAPPSHLESGSTSSFSCYHGHRVCS  
GYLADCPGSDSSSSSSSGQCHCSSSDSVVDCTEVSNQGVYGSCSTFRSSSLSSDYDPFIYR  
SRSPCRASEAGGSGSSGRGPALCFEGSPPEELPAVHSHGAGRGEPWPGPASPGDQVST  
CSLEMNYSNSSEHRGPNSSTSEVGLEASPGAAPDLRRTWKGGHELPSCACCEPQPSP  
AGPSAGAAGSSTLFLGPHLYEGSGPAGGEPQSGSSQGLYGLHPDHLPRTDGVKYEGLPCC  
FYEEKQVARGGGGSGCYTEDYSVSVQYTLTEPPPGCYPGARDLSQRIPPIPEDVDCDL  
GLPSCQGTSLGWSGGTRGPDTPRPHRGLGATREEERALCCQARALLRPGCPPEEAGAV  
RANFPSALQDTQESSTATEAAGPRSHSADSSSPGA

>sp|Q9Y6M5|ZNT1\_HUMAN Zinc transporter 1 OS=Homo sapiens GN=SLC30A1 PE=1 SV=3

MGCWGRNRGRLLCMLALTFMFMVLEVVVSRVTSSLAMLSDSFHMLSDVLALVVALVAERF  
ARRTHATQKNTFGWIRAEVMGALVNAIFLTGLCFAILLEAIERFIEPHEMQQPLVVLGVG  
VAGLLVNVLGLCLFHHHSGFSQDSGHHSHGHGHGLPKGPRVKSTRPGSSDINVAPG  
EQGPDQEETNTLVANTSNSNGLKLDPADPENPRSGDTVEVQVNGNLVREPDHMELEEDRA  
GQLNMRGVFLHVLGDALGSVIVVNALVFYFSWKGCSEGDFCVNPCFPDPCKAFVEIINS  
THASVYEAGPCWVLYLDP TLCVVMVCILLYTTYPLLKESALILLQTVPKQIDIRNLIKEL  
RNVEGVVEEVHELHVWQLAGSRIIATAHIKCEDPTSYMEVAKTIKDVFNHNGIHATTIQPE  
FASVGSKSSVVPCELACRTQCALKQCCGTLPQAPSGKDAEKTPAVSISCLELSNNLEKKP  
RRTKAENIPAVVIEIKNMPNKQPESSL

>sp|Q99726|ZNT3\_HUMAN Zinc transporter 3 OS=Homo sapiens GN=SLC30A3 PE=1 SV=2

MEPSPAAGGLETTTRLVSPDRGGAGGSLRLKSLFTEPSEPLPEESKPVEMPFHHCHRDPL  
PPPGLTPERLHARRQLYAACAVCFVMAGEVVGGYLAHSLAIMTDAHLLADVGSMMGSL  
FSLWLSTRPATRTMTFGWHRSETLGALASVVSLLWMTGILLYLAFVRLHSDYHIEGGAM  
LLTASIAVCANLLMAFVLHQAGPPHSHGSRGAEYAPLEEGPEEPLPLGNTSVRAAFVHVL  
GDLLQSFGVLAASILYFKPQYKAADPISTFLFSICALGSTAPTLRDVLRLMEGTPRNV  
GFEPVRDTLLSVPGVRATHELHLWALTLYHVASAHLAIDSTADPEAVLAEASSRLYSRF  
GFSSCTLQVEQYQPEMAQCLRCQEPPQA

>sp|Q8TAD4|ZNT5\_HUMAN Zinc transporter 5 OS=Homo sapiens GN=SLC30A5 PE=1 SV=1

MEEKYGGDVLAGPGGGGLGPVDVPSARLTKYIVLLCFTKFLKAVGLFESYDLLKAVHIV  
QFIFILKLGTAFMFVLFQKPFSSGKTITKHQWIKIFKHAVAGCIISLLWFFGLTLCGLR  
TTTTFEHSDIVVISL SVLFTSSGGGPAKTRGAFFIIIAVICLLLFDNDLMAKMAEHPE  
GHHDSALTHMLYTAIAFLGVADHKGGVLLLVLALCCKVGFHTASRKLSDVGGAKRLQAL  
SHLVSVLLCPWVIVLSVTTESKVESWFSLIMPFATVIFVVMILDFYVDSICSVKMEVSK  
CARYGSFPIFISALLFGNFWTHPITDQLRAMNKAHQESTEHLVSGGVVSAIFFILSAN  
ILSSPSKRGQKGTILIGYSPEGTPLYNFMGDAFQHSSQSIPRFIKESLKQILEESDSRQIF  
YFLCLNLLFTFVELFYGVLTNSLGLISDGFHMLFDCSALVMGLFAALMSRWKATRIFSYG  
YGRIEILSGFINGLFLIVIAFFVFMESVARLIDPPELDTHMLTPVSVGGLIVNLIGICAF  
SHAHSHAHGASQGSCHSSDHS SHHMHGSDHGHSHGHSAGGMNANMRGVFLHVLADT  
LGSIGVIVSTVLIEQFGWFIADPLCSLFIAILIFLSVPLIKDACQVLLRLPPEYEKEL  
HIALEKIQKIEGLISYRDPHFWRHSASIVAGTIHIQVTSDVLEQRIVQQVTGILKDAGVN  
NLTIQVEKEAYFQHMSGLSTGFHDVLAMTKQMESMKYCKDGTIIM

>sp|043309|ZSC12\_HUMAN Zinc finger and SCAN domain-containing protein 12 OS=Homo sapiens  
GN=ZSCAN12 PE=1 SV=1

MASTWAIQAHMDQDEPLEVKIEEEKYTTRQDWDLRKNNTHSREVFRQYFRQFCYQETSGP  
REALSRLRELCHQWLRPETHTKEQILELLVLEQFLTILPEELQAWVQEHPESGEEVTV  
LEDLERELDEPGEQVSVHTGEQEMFLQETVRLRKEGEPMSLSQSMKAQPKYESPELESQQ  
EQVLDVETGNEYGNLKQEVSEMEPHGKTSSKFENDMSKSARCGETREPEEITEEPSACS  
REDKQPTCDENGVS LTENS DHTEHQRICPGEESYGDDCGKAFSQHSHLIEHQRIHTGDR  
PYKCEECGKAFRGRTVLIRHKIIHTGEKPYKCNECGKAFRWSALNQHQLHTGEKHHC  
NDCGKAFSQKAGLFHHIKIHTRDKPYQCTQCNSFSRRSILTQHGGVHTGAKPYECNECG  
KAFVYNSSLVSHQEIHHEKCYQCKEKGKSFSSQGLIQHQRIHTGEKPYKCDVCEKAFIQ  
RTSLTEHQRIHTGERPYKCDKCGKAFTQRSVLTEHQRIHTGERPYKDECGNAFRGITSL  
IQHQRIHTGEKPYQCECGKAFRQRKTSYKEILLKNHSEPQAGVNLLSSLIPEWQSCF  
RRDL

>sp|Q8TBC5|ZSC18\_HUMAN Zinc finger and SCAN domain-containing protein 18 OS=Homo sapiens  
GN=ZSCAN18 PE=2 SV=2

MLPLEKAFASPRSSPAPPDLPTPGSAAGVQQEEPETIPERTPADLEFSRLRFREFVYQEA  
AGPHQTLARLHELRCRWLMPEARSKEQMLELLVLEQFLGILPDKVRPWVVAQYPESCKKA  
ASLVEGLADVLEEPGMLLGSPAGSSSILSDGVYERHMDPLLLPGELASPSQALGAGEIPA  
PSETPWLSPDPLFLEQRRVREAKTEEDGPANTEQKLKSFPEDPQHLGEWGHLDPAEENLK  
SYRKLLWGYQLSQPDAASRLDTEELRLVERDPQGSSLPEGGRREQESAGCACEEAPAGV  
LPELPTEAPPGDALADPPSGTTEEEEQPGKAPDPQDPQDAESDSATGSQRQSVIQQPAP  
DRGTAKLGTKRPHPEDGDGQSLEGVSSSGDSAGLEAGQGPGADEPGLSRGKPYACGECGE  
AFAWLSHLMHHSSHGGRKRYACQGCWKTFFHSLALAEHQKTHEKEKSYALGGARGPQPS  
TREAQAGARAGGPESVEGEAPPAPPEAQR

>sp|O15535|ZSC9\_HUMAN Zinc finger and SCAN domain-containing protein 9 OS=Homo sapiens  
GN=ZSCAN9 PE=1 SV=1

MNTNSKEVLSLGVQVPEAWHEELTMKVEAKSHLQWQESRLKRSNPLAREIFRRHFRQLCY  
QETPGPREALTRLQELCYQWLRPHVSTKEQILDLLVLEQFLSILPKELQGWVREHCPESG  
EEAVILLEDLERELDEPQHEMVAHRHRQEVLCHEMVPLAEQTPLTLQSQPKPQLTCD  
QKCHSIGETDEVTKTEDRELVLKDCPKIVEPHGKMFNEQTWEVSQQDPSSHGEVGEHKDR  
IERQWGNLLGEGQHKCECGKSFTQSSGLIRHQRIHTGERPYECNECGKAFSRSSGLFNH  
RGIHNIQKRYHCKECKGVFSQSAGLIHQRIHKGEKPYQCSQCSKSYSRRSFLIEHQ  
TGERPHQCIECGKSFNHRCNLIRHQKIHTVAELV

>sp|Q8NAM6|ZSCA4\_HUMAN Zinc finger and SCAN domain-containing protein 4 OS=Homo sapiens  
GN=ZSCAN4 PE=2 SV=1

MALDLRTIFQCEPSENNLGSSENSAFQQSQGPAVQREEGISEFSRMVLNSFQDSNNSYARQ  
ELQRLYRIFHSWLQPEKHSKDEIISLLVLEQFMIGGHCNDKASVKEKWKSSGKNLERFIE  
DLTDDSINPPALVHVHMQGQALFSEDMPDRDVIHVLTKQVNAQTTREANMGTPSQTSQD  
TSLETGGQYEDEQDGNSSSKTTRVNENITNQGNQIVSLIIIEENGPRPEEGGVSSDNP  
YNSKRAELVTARSQEGSINGITFGVPMVMGAGCISQPEQSSPESALTHQSNEGNSTCEV  
HQKGSHEGVQKSYKCECPKVFKYLCHLLAHQRRHRNERPFVCPECQKGFQISDLRVHQI  
IHTGKKPFTCSMCKKSFHKTNLRSHERIHTGEKPYTCPFCKTSYRQSSSTYHRHMRTHEK  
ITLPSVPSTPEAS

>sp|Q96MP5|ZSWM3\_HUMAN Zinc finger SWIM domain-containing protein 3 OS=Homo sapiens  
GN=ZSWIM3 PE=2 SV=2

MELGSCFKTYEDFKECFSAKRENRCFILRDCVSVRFHNLNHGTSIREDILYVQVKFVC  
IRTQSNRKRRTREADMCPAYLLRYNERLDRLFISELNTQHIHGDSKVASPGDITGKSQK  
TMCLQRLQPVQPTTKDLDTAEKSLVEPSFCLDKVQVSSKPEQEGITPSDLAKIAKVMKN  
FLKVDEGSMASFSVGDSQHLDRLSFQSSKMTDLFIRFPENLLHRVENTQGHILYAFLVE  
NKERESRVVHFAVLKAETVTSVAKMLSIFTEFNSDWPKVKVVFVDPFHYRAILQEIPFA  
ARILLSIYHTTRLLEKKLHRSSANPSFKRLMKEALREAVFTSEASLKNLCQMSQAVLDE  
DLFNFLQAHWFTCELLWYMHVRKGLLACNTYMSLDIVTSKVSSLFREQQSLLDCILCFV  
DYIDFNTKGLKNLPTPPPKLKRARPASMPKSKKAFGICGESLTSPLAEETKPDAAQVQV  
VQQQSQVPPSQVGMDLTLHQSGSELAYKLCHNEWEVVQNSTHLVDMAGSSVDVQLLED  
SHQVSKDGCSCSCSFQWYHLPCRHLALLHTSQQPVGEAMVCRRWQKKYQYLLGPN  
GELQDRGMVPTNGQPEKQGRNDMIQDLSRELANLLMQTEGPELEERYSTLRKIVDIWAGPSQ  
PSELFQQPGDFKDVGRLPFLWGKQEEGEGFPATAVMHY

>sp|Q96AP4|ZUFSP\_HUMAN Zinc finger with UFM1-specific peptidase domain protein OS=Homo sapiens GN=ZUFSP PE=1 SV=1

MLSCNICGETVTSEPDMAHLIVHMESEIICPFCKLSGVNYDEMCFHIEAHFEQNTLER  
NFERINTVQYGTSDNKKDNTLQCGMEVNSSILSGCASNHPKNSAQNLTKDSTLKHEGFYS  
ENLTESRKFLKSREKQSSLTEIKGSVYETTYSPPECPCGKIEEHSEDMETHVKTKHANL  
LDIPLDCDQPLYDCPMCGLICITNYHILQEHDVLDHLEENSFQQGMDRVQCSGDLQLAHQL  
QQEEDRKRRSEESRQEIEEFQKLQRQYGLDNSGGYKQQQLRNMEIEVNRGRMPPEFHRR  
KADMMESLALGFDDGKTGTSIIIEALHRYQNAATDVRVWLVSSVDHFHSSLGDKGWGC  
GYRNFQMLLSLLQNDAYNDCLKGMLIPCIPIQSMIEDAWKEGDPQGASQLNNRLQGT  
KAWIGACEVYILLTSLRVKCHIVDFHKSTGPLGTHPRLFEWILNYSSEGEKSPKVVCTS  
KPPIYLQHQGHSRTVIGIEKKNRTLCLLILDPGCPSPREMQKLLKQDIEASSLKQLRKSM  
GNLKHKKYQILAVEGALSLEEKLARRQASQVFTAETKIP

>sp|P98168|ZXDA\_HUMAN Zinc finger X-linked protein ZXDA OS=Homo sapiens GN=ZXDA PE=1 SV=2

MEIPKLLPARGTLQGGGGGIPAGGGRVHRGPDSPAGQVPTRLLLLPRGPQDGGPGRRE  
EASTASRGPGPSLFAPRPHQPSGGGDDFFLVLLDPVGGDVETAGSGQAAGPVLREEAKAG  
PGLQGDESGANPAGCSAQGPCHLSAVPTPAPISAPGPAAAFAGTVTIHNQDLLRFENGV  
LTLATPPPHAWEPGAAPAQPRCLIPAQAGFPQAAHPGDCPELRSDLLAEPAPAPAPA  
PQEEAEGLAALGPRGLGSGPGVVLYLCPEALCGQTFAKKHQLKMHLTHSSSQGQRPF  
KCPLGGCGWTFSTSYKLKRHLQSHDKLRPFGCPAEGCGKSFTTVYNLKAHMKGHEQENSF  
KCEVCEESFPTQAKLGAHQRSHFEPERPYQCAFSGCKKTFITVSALFSHNRAHFREQELF  
SCSPFGCSKQYDKACRLKIHLRSHTGERPFLCDFDGCWNFTSMSKLLRHKRKHDDDRRF  
MCPVEGCGKSFTRAEHLKGHSITHLGTKPFVCPVAGCCARFSARSSLYIHSKKHLQDVDT  
WKSRCPISSCNKLTFSKHSMTMVKRHKVGGDLLAQLEAANSLTPSSELTSSQRQNDLSD  
AEIVSLFSDVPDSTSAALLDTALVNSGILTIDVASVSSTLAGHLPANNNNSVGQAVDPPS  
LMATSDPPQSLDTSLFFGTAATGFQQSSLNMDVSSVSVGPLGSLDSLAMKNSSPEPQAL  
TPSSKLTVDTDLTTPSSTLCENSVSELLTPAKAEWSVHPNSDFFGQGETQFGFPNAAGN  
HGSQKERNLITVTGSSFLV

>sp|Q6WRX3|ZY11A\_HUMAN Protein zyg-11 homolog A OS=Homo sapiens GN=ZY11A PE=2 SV=3

MVHFLHPGHTPRNIVPPDAQDALGCCVVQEEASPYTLVNICLVLIANLEKLCSEKPDG  
TLCLPEHWSFPQEAERFLRVMTWQKLTDRASIFRGNQMKLKLVNIQKAKISTAAFIK  
AFCRHKLIELNATAVHADLPVPDIISGLCSNRWIIQNLQCLLLDSTSIPQNSRLLFFSQL  
TGLRILSVFNVCFHTEDLANVSQLPRLSLDISNTLVTDISALLTCKDRLKSLTMHYLKC  
LAMTKSQILAVIRELKCLLHLDISDHRQLKSDLAFLHLLQKQDILPNVSLDISGGNCITD  
EAVELFIRLRPAMQFVGLLATDAGSSDFFTTKQGLRVAGGASMSQISEALSRYNRSCFV  
KEALHRLFTETFSMEVTMPAILKLVAIGMRNHPLDLRVQFTASACALNLTRQGLAKGMPV  
RLLSEVTCLLFKALKNFPHYQQLQKNCLLSLTNSRILVDVPFDRFDAKFVMRWLCKHEN  
PKMQTMAVSVTSILALQLSPEQTAQLEELFMAVKELLAIVKQKTENLDDVTFLFTLKAL  
WNLTDGSPAACKHFIENQGLQIFIQVLETFESAIQSKVLGLLNNAEVRELSSKLVTED  
VLKHINSLLCSREMEVSFAAGIIAHLTSDRQLWISRDFQRRLLQDLHATIQNWPSSSC  
KMTALVTYRSFKTFFPLGNFSQPEVQLWALWAMYHVCNPNPKYCKMLVEEEGLQLLCD  
IQEHSEATPKAQQAASILDDFRMHFMNYQRPTLCQMPF

>sp|Q15942|ZYG\_HUMAN Zyxin OS=Homo sapiens GN=ZYG PE=1 SV=1  
MAAPRPSPAISVSVAFAFYAPQKKFGPVVAPKPKVNPFRPGDSEPPAPGAQRAQMGRV  
GEIPPPPPEDFPLPPPLAGDGDDAEGALGGAFPPPPPIEESFPPAPLEEEIFSPPPPP

PEEEGGPEAPIPPPPQPREKVSSIDLEIDSLSSLLDDMTKNDFKARVSSGYVPPPVATP  
FSSKSSTKPAAGGTAPLPPWKSPPSSSQPLPQVPAPAQSQTQFHVQPQPQPKPQVQLHVQS  
QTQPVSLANTQPRGPPASSPAPAPKFSPTPKFTPVASKFSPGAPGSGSQPNQKLGHPE  
ALSAGTSPQPPSFYTAQQREKPRVQEKQHPVPPPAQNQNQVRSPGAPGLTLKEVEELE  
QLTQQLMQDMEHPQRQNVAVNELCGRCHQPLARAQPAVRALGQLFHIACFTCHQCAQQLQ  
GQQFYSLGAPYCEGCTDTLEKNTCGEPI TDRMLRATGKAYHPHCFTCVVCARPLEGT  
SFIVDQANRPHCPVDYHKQYAPRCSVCSEPI MPEPGRDETVRVVALDKNFHMKCYKCEDC  
GKPLSIEADDNGCFPLDGHVLCRKCHTARAQT

>sp|043149|ZZEF1\_HUMAN Zinc finger ZZ-type and EF-hand domain-containing protein 1 OS=Homo  
sapiens GN=ZZEF1 PE=1 SV=6

MGNAPSHSSEDEAAAAGGEGWGP HQDWA AVSGTTPGPGVAAPALPPAAALLEPARLREAA  
AALLPTPPCESLSVRHRGALFRWLEERLGRGEESVTLEQFRELLEARGAGCSSEQFEEAF  
AQFDAEGDGTVD AENMLEALKNSSGANLQGELSHIIRQLQACSLVPGFTDIFSESKEGLD  
IHSSMILRFLHRNRLSSAVMPYPMLEHCNNMCTMRSSVLKESLDQLVQKEKESPGDLTRS  
PEMDKLKSVAKCYAYIETSSNSADIDKMTNGETSSYWQSDGSACSHWIRLKMKPDVVL RH  
LSIAVAATDQSYMPQQVTVAVGRNASDLQEV RDVHIPSNVTGYVTLL ENANVSQLYVQIN  
IKRCLSDGCDTRI HGLRAVGFRVVKSGVSVSDASAIWYWSLLTSLVTASMETNPAFVQT  
VLHNTQKALRHMPPLSLSPGSTDFSTFLSPNVLEEVD SFLIRITSCCSTPEVELTLLAFA  
LARGSVAKVMSSLCTITDHLDTQYDASSLI LMASVRQNLLLKYGKPLQLTLQACDVKGK  
EDKSGPENLLVEPWTRDGLTETGKTRASTIFSTGTESAFQVTQIRIMVRRGGIGAQCGL  
VFAYNSSSDKFCAEEHFKRFEKYDKWKLQELRQFVKSRIGCSSDDLGEDDPIGWFELEEE  
WDEADVKLQQCRVAKYLMVKFLCTRQESAERLGVQGLTISGYLRPARAEAEQSVTCAHCR  
KDTEESVCGATLLRLTLQFIQQLAHLDLVQQKESGLKYKSF LDFAGLDLQIFWNFYSKLKQ  
NPREECVSAQTL LLLQLLQSCFVLQGDVLAASEEEKAPIQSPKGVEAAKELYTHLCDVVD  
KVDGDSVPMEILKQEV RNTLLNGAAIFFPNRQTRRNHLFTMMNVTEQEHKQSLQLTFRSL  
CTYFSDKDPGGLLLLPEKNDLAKMNI SEVLAVMDTLVSAARECELLMLSGAPGEVGSVL  
FSLFWSVQGSLLSWCYLQLKSTDSGAKDLAVDLIEKYVGQFLASMR AILESLSFSQYSGKT  
IVERLCNSVF SMAARQLVIFLLDFCTLDIPHCVLLREFSVL TELLKKLCSGPEGGLRKLD  
VETWQEQEPVVLHTWTKE SAHNYENNCH EVSVFVSPGATYFEVEFDDRCETEKRYDY LEF  
TDARGRKTRYDTKVGTDKWPKKVTFKAGPRLQFLFHSDSSHNEWGYKFTVTACGLPDVAV  
SWGDLQLLVSR LMGRLASQCMALKSVRQLG SNMVPQAKMALVLSSPLWKPVFRHQVCP  
ELELEASWPTHPRNSKEVKNI PDDPCRHFLLDFAQSEPAQNFCGPYSELFKGF IQACRK  
QAPKTDIVAGSTIDQAVNATFAALVYRTPDLYEKLQKYVNSGGKIALSEEFAQVYSLADG  
IRIWMLEMKQKSLMSLGNEAEKHSSEATEVNPESLAKECIEKSL LLLKFLPTGISSKES  
CEKLETADETSHLQPLNKRQRTSSVVEEHFQASVSPTEAAPPATGDQSPGLGTQPKLPSS  
SGLPAADVSPATAEEPLSPSTPTRRPPFTRGRLRLLSFRSMEEARLVPTVKEKYPVLKDV  
MDFIKDQSLSHRSVVKVLSLRKAQAQSILEVLKITQHCAESLGQPHCFHPPFILFLELL  
TCQKDFTN YFGHLEGCGADLHKEIRDYTYQLVLFV KAVKGFSSLNDRSLLPALSCVQTA  
LLHLLDMGWEPNDLAFFVDIQLPDLLMKMSQENISVHDSVISQWSEELADAKQNSEWM  
DECQDGMFEAWYEKIAQEDPEKQRKM HMF IARYCDLLNVDISCDGCDEIAPWHRYRCLQC  
SDMDLCKTCFLGGVKPEGHGDDHEMVNMEFTCDHCQGLIIGRRMNCNV CDDFDLCYGCYA  
AKKYSYGHLP THSITAHPMVTIRISDRQRLIQPYIHNYSWLLFAALALYSAHLASAEDVD  
GEKLDPQTRSSATT LRSQCMQLVGDC LMKAHQGKGLKALALLGVLPDGDSSLEDQALPVT  
VPTGASEEQLEKKAVQGAELSEAGNGKRAVHEEIRPVDFKQRNKADKGVSLSKDPSCQTQ

ISDSPADASPPTGLPDAEDSEVSSQKPIEEKAVTPSPEQVFAECSQKRILGLLAAMLPL  
KSGPTVPLIDLEHVLPLMFQVVISNAGHLNETYHLTLGLLGQLIIRLLPAEVDAAVIKVL  
SAKHNLF AAGDSSIVPDGWKTTLLFSLGAVCLDSRVGLDWACSM AEILRSLNSAPLWRD  
VIATFTDHC IKQLPFQLKHTNIFTLLVLVGFPQVLCVGT RCVYMDNANEPHNVIILKHFT  
EKNRAVIVDVKTRKRKTVKDYQLVQKGGGQECGDSRAQLSQYSQHFAFIASHLLQSSMDS  
HCPEAVEATWVLSLALKGLYKTLKAHGFEERATFLQTDLLKLLVKCKSGTGFSKTWLL  
RDLEILSIMLYSSKKEINALAEHGDLELDERGDREEVERPVSSPGDPEQKKLDPLEGLD  
EPTRICFLMAHDALNAPLHILRAIYELQMKKTDYFFLEVQKRFDGDELTTDERIRSLAQR  
WQPSKSLRLEEQSAKAVDTDMIILPCLSRPARCDQATAESNPVTQKLISSTESELQQSYA  
KQRRSKSAALLHKELNCKSKRAVRDYLFRVNEATAVLYARHVLASLLAEWPSHVPVSEDI  
LELSGPAHMTYILDMFMQLEEKHEWEKILQKVLQGCREDMLGTMALAACQFMEEPGMEVQ  
VRESKHPYNNNTNFEDKVHIPGAIYLSIKFDSQCNTTEEGCDELAMSSSSDFQQDRHSFSG  
SQQKWKDFELPGDTLYRFTSDMSNTEWGYRFTVTAGHLGRFQTGFEILKQMLSEERVVP  
HLPLAKIW EWLVGVACRQTGHQRLKAHLLLRIVRCCGHSDDLCDLALLKPLWQLFTHMEY  
GLFEDVTQPGILLPLHRALTEFFVTENRAQELGVLQDYLLALTDDHLLRCAAQALQNI  
AAISLAINYPNKATRLWNVEC

>sp|Q6ZRP5|YD019\_HUMAN Putative uncharacterized protein FLJ46204 OS=Homo sapiens PE=5  
SV=2

MRIFRGCTQPSTLGQGVHSPLMKAQFITHHSRKQVKPEGWGRRSSFTRACRDHTTILSGN  
RSFSAVAATPAKHKHMHTRTHMHHTHTGMHTLTGTHVHTPHTQMHTRILTLSTMHTHAH  
THAHTHGHTHTRAHSTHAHTHAHSHYHTRTLTLTHSHAHSCTLTSTITHMHHTHMHHTHT  
STLTRTLTLTHMHHTFLSLVSHLAGYISCQFIFSENPRLCH

>sp|Q6ZS92|YD022\_HUMAN Putative uncharacterized protein FLJ45721 OS=Homo sapiens PE=5  
SV=2

MCMNTSIIHAHTYARTHTHSVFMSSNVTVFQWMRLMRASSRSFTQAIPAGQLLTACSHLF  
TTQNTCQNALGNNTRLQHTEKVRLSIGLADFGLPGIARNTFVVPDSISRYCREGSGVIGKC  
CPSRKSALLNKQGSLLKFKITRGETQPGVTISVLELAEIDQRF

>sp|Q6ZQT0|YD023\_HUMAN Putative uncharacterized protein FLJ45035 OS=Homo sapiens PE=5  
SV=1

MFARLCPVSETFGRLCPVSETFARLCPVSETFARLCPVSETFARLCPVSETFGRLCPVSE  
MFGRLSPVSETFGRLCPVSETFGRLCPVSEMFARLCPVSETFGRLSPVSEMFARLCPVSE  
MFGRLCPVSEMFARLCPVIT

>sp|Q9UI72|YE014\_HUMAN Putative uncharacterized protein PRO0255 OS=Homo sapiens  
GN=PRO0255 PE=5 SV=1

MGM ALELYWLCGFRSYWPLGTNAENEGNRKENRRQMQRNERGCNVRQTKTYRDREADRH  
IHGIACLLF

>sp|Q8NA96|YE027\_HUMAN Putative uncharacterized protein FLJ35723 OS=Homo sapiens PE=5  
SV=2

MPSSVPKTSIESLGSPSSSSQASEPLCPLKHPSHRPPASTLSPNLTSSTESLGYLSSL  
SSSQPPEPLRPLECPSHKPCGRSLPRRRNPGVWSWSDSMQADSETDAIICPMCKAPERSC  
PHTWWVPSSPRVIRGVGRCDPNLGLSWRQEAAAWCHCTSSQYPFKHPNLPHTLPKASF

>sp|Q6UWF5|YF002\_HUMAN Putative uncharacterized protein UNQ5815/PRO19632 OS=Homo sapiens  
GN=UNQ5815/PRO19632 PE=4 SV=1

MQIQNNLFFCCYTVMSAIFKWLLLYSLPALCFLLTQESESFHSKAEILVTL SQVIISPA

GPHALTWTHFSPSVIIILVPCWWHAVIVTQHPVANCYVTNHLNIQWLELKAGS

>sp|Q6ZSV7|YF010\_HUMAN Putative uncharacterized protein FLJ45177 OS=Homo sapiens PE=2 SV=1

MAFGEPPSGHSTRHRTLHGLSFHTAMGMAWSLHYQGQGGTLCVLGVSTPSHDKAVLQGLP  
HFSVNLGVQPSALAGRRGDASCPSSWRSADPTVSPNLGAPGGPNAIDALHGEQLGLFLRT  
KMGRDPKDVHGLTPALCGPCLAGLPSSHSPQFSCNTAPLKMLS

>sp|Q9UHT4|YG001\_HUMAN Putative uncharacterized protein PRO1854 OS=Homo sapiens  
GN=PRO1854 PE=5 SV=1

MNNHRANDKFFLYVCMYVCIREKILLYKTHWMTPIFLKVVINTRRIKHHFKIHVPSQFFI  
LITITKY

>sp|Q6ZRM9|YG024\_HUMAN Putative uncharacterized protein FLJ46235 OS=Homo sapiens PE=2  
SV=1

MASGRWASPGPAWASRRPLQAQVVLKSASPGPAPASQQASSFGSAPAQLPPAFVDPELSP  
AMLLSPTCLPVACTGPGLAGEQLQAPLLPPRGISRPSSGLTAASRDQVPACLPAACVRP  
SSSVTVACSGPTHASGTLRGVSPCLTLASLTREFSVGPCLTLASLTREVSMSPCLTL  
VSLTLRAILPHAGLLRPSSCLCWPFQAQPLPVGGL

>sp|Q969M3|YIPF5\_HUMAN Protein YIPF5 OS=Homo sapiens GN=YIPF5 PE=1 SV=1

MSGFENLNTDFYQTSYSIDDSQQSYDYGGSGGPYSKQYAGYDYSQQGRFVPPDMMQPQQ  
PYTGQIYQPTQAYTPASPQPFYGNFEDEPPLLEELGINFDHIWQKTLTVLHPLKVADGS  
IMNETDLAGPMVFLAFLGATLLLAGKIQFGYVYGISAIGCLGMFCLNLMSMTGVSFGCV  
ASVLGYCLLPMLLSSFAVIFSLQGMVGIIITAGIIGWCSFSASKIFISALAMEGQQLLV  
AYPCALLYGVFALISVF

>sp|O15498|YKT6\_HUMAN Synaptobrevin homolog YKT6 OS=Homo sapiens GN=YKT6 PE=1 SV=1

MKLYSLSVLYKGEAKVVLLKAAAYDVSSFSFFQRSSVQEFMTFTSQLIVERSSKGTASVK  
EQDYLCVYVRNDLAGVVIADNEYPSRVAFTLLEKVLDEFKQVDRIDWPVGSPATIH  
PALDGHLTRYQNPREADPMTKVQAELETKIILHNTMESLLERGEKLDDLVSKEVLGTQ  
SKAFYKTARKQNSCCAIM

>sp|Q9UF83|YM012\_HUMAN Uncharacterized protein DKFZp434B061 OS=Homo sapiens PE=2 SV=2

MRRPSTASLTRTPSRASPTRMPRASLKMTPFRASLTKMESTALLRTLPRASLMRTPTRA  
SLMRTPPRASPTRKPPRASPRTPSRASPTRRLPRASPMGSPHRASPMRTPPRASPTGTPS  
TASPTGTPSSASPTGTPPRASPTGTPRAWATRSPSTASLTRTPSRASLTRWPPRASPTR  
TPPRESRMRSHRASPTRTPPRASPTRRPPRASPTRTPPRESLRTSHRASPTRMPPRASPT  
RRPPRASPTGSPPRASPMTPPRASPRTPPRASPTTTPSRASLTRTPSWASPTTTPSRASL  
MKMESTVSITRTPPRASPTGTPSRASPTGTPSRASLTGSPSRASLTGTPSRASLIGTPSR  
ASLIGTPSRASLTGTPPRASLTGTSSASLTRTPSRASLTRTQSSSSLTRTPSMASLTRT  
PPRASLTRTPPRASLTRTPPRASLTRTPPRASLTRTPSMVSLKRSPSRASLTRTPSRASL  
TMTPSRASLTRTPSTASLTGTPPTASLTRTPPTASLTRSPPTASLTRTPSTASLTRMPST  
ASLTRKSNVNQQCPASTPSSEVIS

>sp|A8MX80|YM017\_HUMAN Putative UPF0607 protein ENSP00000383144 OS=Homo sapiens PE=3 SV=2

MRLCLIPRNTGTPQRLVPPVWSTPSRKKPVLSARNMMFGHLSPMRIPHRLRGKFNQLP  
SLDEQVIPARLPKTEVRAEEPKEATEVKDQVETQEEDNKRGPCSNGEAAASTSRPLETQG  
NLTSSWYNRPLEGNVHLKSLTEKNQTDKAQVHAVSFYSGHGVASSHSPAGGILPFGRP  
DSLPTVLPAPVPGCSLWPEKAALKVLGKDYLPSSPGLLMVGEDMQPKDPAALGSSRSSPP  
KAAGHRSHKRKLSGPPLQLQPTPPLQLRWRDRDEGPPPAKLPCLSPEALLVGQASQREGHL



QQGNMHKNMRVLSRTSKFRRLRQLLRRRKKRRQGRCGGSRL

>sp|Q6ZTK2|YP015\_HUMAN Putative uncharacterized protein LOC400499 OS=Homo sapiens PE=2 SV=1

MGWSDLQAMGGEAERFQAQLEVKLVTTGGSPVFTGNLTRQVGSKLAFSASLSHLLSDQA  
NVTALLERKEENRRVAALGAELFVPGVLGLRALGLLQQGQLWTNSLRITQYSLLGQAKQ  
AAHECSTSQKL RADSGSDGAYRLELRHELHCTQILAFSHKVQLWHEEDSGHLHSQLEVS  
Y GKQWDKNSNKRHLRVSQTFKNSGPALSNHFMFVLQVPERQVDCRVQLYHLSRLPYVE  
SSSHLKVQYNGRPLFVAGGQWKDTSRATLWKWEGVLNLDSPWLMVSAAHRLYWPBRAVFQ  
AVLELTGKAWTLKDLVVSVGCRSQGPNREGKIQVYTAATTYLRVSTVTVLAQSLFHSWS  
ELESWNTAVQGEIHAENSRDRKILNCWLKGPQQLNLTAAYRHLEWPRKTQVSLTAVWI  
GAQGQPRGLQLEGELEELRQDRTLYRKRGALLLRHPLHLPQPQLLQETFTADRRHQRY  
SLETRVVLNGREETLQTMVLGCQAGHPYVCAGLMHPYDGKVI PRNTEGCLVTWNQHTSLA  
LLSGLESGVQ

>sp|Q8N6K4|YP021\_HUMAN Putative uncharacterized protein MGC34800 OS=Homo sapiens PE=2 SV=1

MGDLPWAPPEAQAPSTAGAGDVAEHQVAPARFLQGAWRQAAGWLCRETGAAPGSAQAGPP  
ETAHAADPQPRGPQAPPRLPPSLSPERVHPGQPAAPAEAPGAPALRSGPSQPRGLRPLV  
PVPACAGSSAPGSPAALPDSYPWPPPARNRPATLPPTSRVSPLAAFLASAPQR

>sp|Q8NAQ8|YP023\_HUMAN Putative uncharacterized protein FLJ34945 OS=Homo sapiens PE=2 SV=1

MYSVLQLLKCLCSCWRKGPEGRRFQTEAAVCARPAWSPHPAGASEALGALPPPRQLVEKR  
RVSPPRRLDQSGRDGGAVAKCSLSRGLSPPGWTGRSLLRPWGSAAVLGSRAALACVLRPS  
RGVMPATIQSRR

>sp|Q6ZPA2|YS039\_HUMAN Putative uncharacterized protein FLJ26174 OS=Homo sapiens PE=2 SV=1

MVPLFITSDSALTYSPLPEPPPTPALGGQRPPTCQCPDFPYPVPPSEGCPSGRLLLSLH  
WDWGRGAGGSWSGGAWPGSPGWRLARGPAHGASAESLGPLGKALVTGWEGGWGGQGGAC  
SPWYFPIPAAL

>sp|Q8WTZ3|YS049\_HUMAN Zinc finger protein ENSP00000375192 OS=Homo sapiens PE=2 SV=1

MKNVANTVTISHILPHIKI IHTEEKPDKCEECKNVFNWSSHTKYKRIHTEDKFYKYECC  
DKSFKNISTLITHKIIYVVEKFYKCEECKGVFFFLKWSLTLSPKLECNCAISVHCNLR  
L LGSSDSLASTSQAAGIAGACHHAQLIFVFLVETGFHHFDQAGFELLTSSDPPALASQSAP  
KCWDYKHEPLSPVECGKVFNKL SNHTGEKLYKPKRHDSALNTLNF SKHKNH SVKKP

>sp|Q5W150|YT011\_HUMAN Putative uncharacterized protein MGC163334 OS=Homo sapiens PE=1 SV=1

MDCKSPKRANICPHLPGGGLFSTPPSQAAWRTLLTALCFPGPTCTGPMREGPRAVYNPPR  
AHRNSSDNCVMKHLLCAGDKNGTRRHALPSLEGSFQGRQIPPPQTPSTDPQTLPLSFR  
SLLRCHQLCAASLP SLKLP

>sp|A8MWV9|YU007\_HUMAN Putative uncharacterized protein LOC388820 OS=Homo sapiens PE=5 SV=1

MEWAKWTPHEASNQTQASTLLGLLGDHTEGRNDTNSTRALKVPDGTSAAWYILTIIGIY  
AVIFVFRLASNILRKNDKSLEDVYYSNL TSELKMTGLQGKVA KCSTLSISNRAVLQPCQA  
HLGAKGGSSGPQTATPETP

>sp|Q6UXV3|YV010\_HUMAN Uncharacterized protein UNQ6126/PRO20091 OS=Homo sapiens  
GN=UNQ6126/PRO20091 PE=2 SV=1

MLPEQGPQSTMWLLAACTSLPRQAATMLEEAASPNEAVHASTSGSGALTDQTFTDL  
SAAEASSEEVPDFMEVPHSVHHKINCFYLEKQLCQLPSPLCLSSLLTLKLKTTVPAPGR  
WWSFQPHKAFPLLVGTPGSWQSTIDPAWAAPSQPSPG

>sp|Q9NPA5|ZF64A\_HUMAN Zinc finger protein 64 homolog, isoforms 1 and 2 OS=Homo sapiens  
GN=ZFP64 PE=1 SV=3

MNASSEGESFAGSVQIPGGTTVLVELTPDIHICGICKQQFNNLDAFVAHKQSGCQLTGTS  
AAAPSTVQFVSEETVPATQTQTTRTITSETQTITVSAPEFVFEHGYQTYLPTESNENQT  
ATVISLPAKSRTKKPTTPPAQKRLNCCYPGCQFKTAYGMKDMERHLKIHTGDKPHKCEVC  
GKCFSRKDKLKTMRCHTGVKPYKCTCDYAAADSSSLNHLRIHSDEPFKQICPYAS  
RNSSQLTVHLRSHTGDAPFQCWLCSAKFKISSDLKRHRVHSGEKPFCFCNVRCTMKG  
NLKSHIRIKHSGNNFKCPHCDFLGDSKATLRKHSRVHQSEHPEKCECSYSCSSKAALRI  
HERIHCTDRPFKCNYSFDTKPSNLSKHMKKFHGDMVKTEALERKDTGRQSSRVAKLD  
AKKSFHCDICDASFMRDSLRSKRQHSEYSESKNSDVTVLQFQIDPSKQPATPLTVGHL  
QVPLQPSQVPQFSEGRVKIIVGHQVPQANTIVQAAAAVNIVPPALVAQNPEELPGNSRL  
QILRQVSLIAPPQSSRCPSEAGAMTQPAVLLTTHEQTDGATLHQTLIPTASGGPQEGSGN  
QTFITSSGITCTDFEGLNALIQEGTAETTVSDGGQNIATAPPVFSSSSQQLPKQT  
YSIIQGAHPALLCPADSIPD

>sp|Q9H8U3|ZFAN3\_HUMAN AN1-type zinc finger protein 3 OS=Homo sapiens GN=ZFAND3 PE=1 SV=1

MGDAGSERSKAPSLPPRCPCGFWGSSKTMNLCSKCFADFQKKQPDSDSAPSTSNSQSDLF  
SEETSDNNNTSITPTLSPSQPLPTELNVTSPSKEECGPCTDTAHVSLITPTKRSCGT  
DSQSENEASPVKRPRLLENTSEETSRSKQKSRRRRCFQCQTKLELVQQELGSCRCGYVF  
CMLHRLPEQHDCTFDHMGRGREEAIMKMVKLDRKVGRCQRIEGCS

>sp|076080|ZFAN5\_HUMAN AN1-type zinc finger protein 5 OS=Homo sapiens GN=ZFAND5 PE=1 SV=1

MAQETNQTPGMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMGTASGSNSPT  
SDSASVQRADTSLNCEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTPKTEVS  
EPVVTQPSPSVSQSTSQSEEKAPELPKPKKNRCFMCRKKVGLTGFDRCRGNLFCGLHRY  
SDKHNCPYDYKAEAAAKIRKENPVVVAEKIQR

>sp|Q9Y2G7|ZFP30\_HUMAN Zinc finger protein 30 homolog OS=Homo sapiens GN=ZFP30 PE=2 SV=1

MARDLVMFRDVAVDVSQEEWECLNSYQRNLYRDVILENYSNLVSLAGCSISKPDVITLLE  
QGKEPMMVVRDEKRRWTLDESRYDTKKLFQGKDIYEMNLSQWKVMERIKSCGLEEQESP  
HEVCFRQVTKTTSEKMPTYRKLTSPLYQKSHNREKPYECGECGKAFRVRQQLTFHQRIH  
TGEKPYECKECGKAFRQCAHLSRHQRIHTSDKLYECKCGKIFTGSDLRVHQRIHIGEK  
PYECKECGKAFRVRGQLNLHQRIHTGEKPYECKECGKAFRQYAHLTRHQRLNIAEKCYEC  
KECGQAFLCSTGLRLHHKLHTGEKPYECKECGKAFRVRQQLTLHQRIHTGEKPYDCKECG  
KTFSRGYHLTLHQRIHTGEKPYECKECQKFFRRYSELISHQGIHIGEKPYECKECGKAFR  
LFSQLTQHQSIIHFGEKPFKCKEKEKTFRLLSQLTQHQSIIHTGEKPYDCKECGKAFLHSS  
LIHQRIHSGEKPYKCKECKKAFRQHSHTYHQRIHNT

>sp|Q9Y6Q3|ZFP37\_HUMAN Zinc finger protein 37 homolog OS=Homo sapiens GN=ZFP37 PE=2 SV=3

MSVSSGVQILTKPETVDRRRSAETTKEAGRPLEMAVSEPEASAAEWKQLDPAQSNLYNDV  
MLENYCNQASMGCAAPKPDMMISKLEKGEAPWLGKGRPSQGCPSKIARPKQKETDGKVQK  
DDDQLENIQKSNKLLREVAVKKKTQAKKNGSDCGSLGKKNLHKKHVPSSKRLLKFESC  
GKILKQNLDPDHSRNCVKKSDAAKEHKKSFNHSLSDTRKGKKQTGKKHEKLSHSSSD

KCNKTGKKHDKLCCHSSSHIKQDKIQTGKEHEKSPSLSSSTKHEKPQACVKPYECNQCGK  
VLSHKQGLIDHQRVHTGEKPYECNECGIAFSQKSHLVVHQRTHTEKPYECIQCGKAHGH  
KHALTDHLRIHTGEKPYECAECGKTRHSSNLIQHVRSHTEKPYECKECGKSFRYNSSL  
TEHVRTHTEIPYECNECGKAFKYSSSLTKHMRIHTGEKPFECNECGKAFSKKSHLIHQ  
RTHTEKPYKNECGKAFGHSSSLTYHMRTHTEGSPFECNQCGKGFQIEGLTQHQRVHT  
GEKPYECNECGKAFSQKSHLIVHQRTHTEKPYECNECEKAFNAKSQLVHQRSHTGEKP  
YECNECGKTFKQNASLTKHVKTHSEDKSHE

>sp|Q96NJ6|ZFP3\_HUMAN Zinc finger protein 3 homolog OS=Homo sapiens GN=ZFP3 PE=2 SV=1  
MGTENKEVIPKEEISEESEPHGSLLEKFPKVYQGHEFGAGCEEDMLEGHSRESMEEVIE  
QMSPQERDFPSGLMIFKKSPSSEKDRENNESERGCSPSPNLVTHQGDTEGVSAFATSGQ  
NFLEILESNTQRSSVGEKPHTCKEKGAFNQNSHLIQHMRVHSGEKPFECKEKGKTFGT  
NSSLRRLRIHAGEKPFACNECGKAFIQSSHLIHHHRIHTGERPYKCEECGKAFSQNSAL  
ILHQRIHTGEKPYECNECGKTRVSSQLIQHQRIHTEERYHECNECGKAFKHSSGLIRHQ  
KIHTGEKPYLCNECGKGFQSSSELIRHQRIHTGDKPYECNECGKTFGQNSEIRHIRIHT  
GEKPYVCKEKGAFRGNSELLRHERIHTGEKPYECFECGKAFRRTSHLIVHQRIHTGEKP  
HQCNECARTFWDNSELLHQKIHIGEKPYECSECEKTFSQHSQLIHQRIHTGEKPYECQ  
ECQKTFSRSSHLLRHQSVHCME

>sp|Q9NU63|ZFP57\_HUMAN Zinc finger protein 57 homolog OS=Homo sapiens GN=ZFP57 PE=1 SV=2  
MAAGEPRSLFFQKPVTFEDVAVNFTQEEWDCLDASQRVLYQDVMSETFKNLTSVARIFL  
HKPELITKLEQEEEEQWRETRVLQASQAGPPFFCYTCGKCFRRSYLYSHQFVHNPKLTNS  
CSQCGKLFRRSPKSLSYHRRMHLGERPFCCTLCDKTYCDASGLSRHRRVHLGYRPHSCSVC  
GKSFRDQSELKRHQKIHQNQEPVDGNQECTLRIPGTQAEFQTPAIARSQRSIQGLLDVNHA  
PVARSQEPFRTEGPMAQNQASVLKNQAPVTRTQAPITGTLCQDARSNSHPVKPSRLNVF  
CCPHCSLTFSKKSYSRHHQKAHLTEPPNYCFHCSKSFSSFSRLVRHQTHWKQKSYLCP  
CDLSFGEKEGLMDHWRGYKGKDLQCSSHHKCRVILGQWLGFSDVPTMAGEEWKHGGDQS  
PPRIHTPRRRGLREKACKGDKTKEAVSILKHK

>sp|Q9H4I2|ZHX3\_HUMAN Zinc fingers and homeoboxes protein 3 OS=Homo sapiens GN=ZHX3 PE=1  
SV=3

MASKRKSTTPCMIPVKTIVLQDASMEAQPAETLPEGPQQDLPEASAASSEAAQNPSSTD  
GSTLANGHRSTLDGYLYSCKYCDFRSHDMTQFVGHMNSEHTDFNKDPTFVCSGCSFLAKT  
PEGLSLHNATCHSGEASFVWNAKPDNHVVVEQSIPESTSTPDLAGEPSAEGADGQAEII  
ITKTPIMKIMKGAEAKKIHTLKENVPSQPVGALPKLSTGEMEVREGDHSFINGAVPVS  
QASASSAKNPHAANGPLIGTPVLPAGIAQFLSLQQQPPVHAQHVVHQLPTAKALPKVM  
IPLSSIPTYNAAMDSNSFLKNSFHKFPYPTKAELCYLTVVTKYPEEQLKIWFTAQRLKQG  
ISWSPEEIEDARKKMFNTVIQSVQPPTITVLNTPLVASAGNVQHLIQAALPGHVVGQPEG  
TGGGLLVTPQLMANGQATSSPLPLTVTSVPKQPGVAPINTVCSNTTSAVKVVNAQSL  
TACPSITSQAFLDASIYKNKKSHEQLSALKGSFCRNQFPGQSEVEHLTKVTGLSTREVRK  
WFSRRYHCRNLKGSRAMIPGDHSSIIIDSVPEVSFSPSSKVPEVTCIPTTATLATHPSA  
KRQSWHQTPDFTPTKYKERAPEQLRALESSFAQNPLPLDEELDRLRSETKMTRREIDSWF  
SERRKKVNAEETKKAENASQEEEEAAEDEGGEEDLASELRVSGENGSLEMPSSHILAER  
KVSPKINLKNLRVTEANGRNEIPGLGACDPEDDESNAELQPGKVSCKKTAQQRHLLR  
QLFVQTQWPSNQDYDSIMAQTGLPRPEVVRWFGDSRYALKNGQLKWYEDYKRGNFPPGLL  
VIAPGNRELLQDYIMTHKMLYEEDLQNLCDKTQMSQVQKQWFAEKMGEETRAVADTGSE  
DQPGGTGELTAVHKGMDTYSEVSENSESWEPRVPEASSEPFDTSSPQAGRQLETD

>sp|Q8N9L1|ZIC4\_HUMAN Zinc finger protein ZIC 4 OS=Homo sapiens GN=ZIC4 PE=2 SV=3

MRYKTSLVMRKRLRLYRNTLKESSSSSGHHGPQLTAASSPSVFPGLHEEPPQASPSRPLN  
GLLRLGLPGDMYARPEFPFPGPAARSDALAAAAALHGYGGMNLTVNLAAPHGPGAFFRYM  
RQPIKQELICKWLAADGTATPSLCSKTFSTMHELVTHVTVEHVGGPEQANHICFWEECPR  
QGKPFKAKYKLVNHIRVHTGEKPFPCFPFGCGKVFARSENKIHKRHTTGEKPFRCFEFEG  
CERRFANSSDRKKHSHVHTSDKPYTCKVRGCDKCYTHPSSLRKHKMKVHGRSPPPSSGYDS  
ATPSALVSPSSDCGHKSQVASSAAVAARTADLSE

>sp|A6NL46|YF016\_HUMAN Putative UPF0607 protein ENSP00000332738 OS=Homo sapiens PE=3 SV=3

MRLCLIPWNTTPHRVLPPVVSAPSRRKPVLSARNMFMGHLSPVRNPRLRGKFNQLPS  
LDEQVIPTRLPKMEVRAEEPKEATEVKDQVETQGQEDNKTGPCSNGKAASTSRPLETQGN  
LTSSWYNRPLEGNVHLKSLTEKNQTDKAQVHAVSFYSGKHGVTSSHSPAGGILPFGKPD  
PLPAVLPAVPDCSLWPEKAALKVLGKDHLPSPPGLLMVGEDMQPKDPAALRSSRSSPPR  
AAGHRPRKRKLSGPPLQLQQTPPLQLRWDRDEGPPPAKLPCLSPEALLVGKASQREGRLQ  
QGNMRKNVRVLSRTSKFRRLRQLLRRRKKRWQGRRGGSRL

>sp|Q5BJH7|YIF1B\_HUMAN Protein YIF1B OS=Homo sapiens GN=YIF1B PE=1 SV=1

MHPAGLAAAAAGTPRLRKWPSKRRIPVSQPGMADPHQLFDDTSSAQSRGYGAQRAPGGLS  
YPAASPTPHAAFLADPVSNMAMAYGSSLAQKGKELVDKNIDRFIPITKLKYYFAVDTMVY  
GRKLGLLFFPYLHQDWEVQYQQDTPVAPRFDVNAPDLYIPAMAFITYVLVAGLALGTQDR  
FSPDLLGLQASSALAWLTLEVLAILLSLYLTVNTDLTTIDLVAFLGYKYVGMIGGVLMG  
LLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAVAAA  
QPMLMYWLTFLVR

>sp|Q9BRP9|YK016\_HUMAN Putative uncharacterized protein MGC13053 OS=Homo sapiens PE=5 SV=2

MQPSWTPAPVQRTACNITAWGGEFGKEGEGRCEQVALSSGPPEGALHASREGPQPPGAEN  
LRPSTGETFVQSGRWDGGWRGAMKGRRHRQASTPPTRPESIFVPTAQDGAQMVCKAHTRT  
TQYTEQDSVVTARGLLDAKRVGVAGGS

>sp|Q6UXQ8|Y0002\_HUMAN Putative uncharacterized protein UNQ6190/PRO20217 OS=Homo sapiens GN=UNQ6190/PRO20217 PE=5 SV=1

MAGVRARAPLPLALLLSLPAAPGGRDPSASRARFPQRLGRAPCFEVGLRKPPPPPLLSPP  
SFSSGSSRPLQRPGRPKDGAGRKVCACLKRLPGESGSCEDGQSAPAQPPRRRTGTRACP  
PRAPLWR

>sp|A6NDX4|Y0011\_HUMAN Putative transmembrane protein ENSP00000320207 OS=Homo sapiens PE=5 SV=1

MYVSISFLLGLSHLVLCCLLTFIVNFYLPPEIDFEFMAHNWSKGRSPSSTLGLSWFKAG  
FRFSDGWSMFYSSGLPGVALPGSPPRSHLLPGTQILIRSFQPCESAKHSARLSSLLTTTS  
YSVS

>sp|Q6ZSR3|Y0027\_HUMAN Putative uncharacterized protein FLJ45275, mitochondrial OS=Homo sapiens PE=5 SV=1

MGWRFPSPSRQASPVAPLLAAPTAVRSCSHCSGQREAISSHPLQLETPELGVCLPWHWE  
GWRQVRKITPSLPQPPGSQVPLEVTFHVRATLPHFRGGETKARRAREEGKLPSLGNAPAP  
RRRSVAWPAAEAGSCAAPESPASEASLPAPESSLLVAGSGDLCADSF

>sp|A6NIN4|YQ014\_HUMAN Putative uncharacterized protein FLJ38447 OS=Homo sapiens PE=5 SV=3

MALDSDLWSRLEEKARAKCERDEAGNPAKESSDADGEAEEEGESEKGAGPRGWRALRR

LWDRVLGPARRWRRPLPSNVLYCAEIKDIGHLTRCTL

>sp|A8MZ25|YQ037\_HUMAN Putative uncharacterized protein FLJ38767 OS=Homo sapiens PE=5 SV=1

MGQKKTMTGTERSRGKRGPPQGAERPEEPGATFSKKPPEGARAPRCLSRPTAPKSGACLA  
RRRPPGSPCSIRDAPFHTGDDRFLARENFPNVLQPLPRMFAVQQAADFESQCPRRWDSRK  
RPSEGLPSAGWGRWRGRPIHLGLWVSGSVRRKVSGSHVSRSLHL

>sp|075467|Z324A\_HUMAN Zinc finger protein 324A OS=Homo sapiens GN=ZNF324 PE=2 SV=1

MAFEDVAVYFSQEEWGLLDTAQRALYRRVMLDNFALVASLGLSTSRPRVVIQLERGEEPW  
VPSGTDTLSTRTTYRRRNPGSWSLTEDRDVSGEWPRAFDPDTPPGMTTSVFPVAGACHSVK  
SLQRQRGASPSRERKPTGVSVIYWERLLGSGSGQASVSLRLTSPLRPPEGVRLREKTLT  
EHALLGRQPRTPERQKPCAQEVPGRTFGSAQDLEAAGGRGHHRMGAVWQEPHRLGGQEP  
STWDELGEALHAGEKSFECRACSKVFKSSDLLKHLRTHTGERPYECAQCGKAFSQTSHL  
TQHQRHSGETPYACPVCGKAFRHSSSLVRHQRIHTAEKSFRCSECGKAFSHGSNLSQHR  
KIHAGGRPYACAQCGRRFCRNSHLIQHERTHTGEKPFVLCALCGAAFSQSSLFKHQRVHT  
GEKPFACPQCGRAFSHSSNLTHQQLLHTGERPFRVDCGKAFAGAVLLSHRRIHTGEKP  
FVCTQCGRAFRERPALFHHQRIHTGEKTVRRSRASLHPQARSVAGASSEGAPAKETEPTP  
ASGPAAVSQPAEV

>sp|Q9H6B1|Z385D\_HUMAN Zinc finger protein 385D OS=Homo sapiens GN=ZNF385D PE=2 SV=1

MNRNIMYFGGTCQSPALPALVRPPAPPLQPSLDIKPFLPFPLDTAAAVNLFPNFNAMDPIQ  
KAVINHTFGVPLPHRRKQIISCNICQLRFNSDSQAAAHYKGTKHAKKLKALEAMKNKQKS  
VTAKDSAKTTFTSITTNTINTSSDKTDGTAGTPAISTTTTVEIRKSSVMTEITSKVEKS  
PTTATGNSSCPSTETEEEEKAKRLLYCSLCKVAVNSASQLEAHNSGTKHKTMLEARNSGT  
IKAFPRAGVKGKGPVNKGNTGLQNKTFHCEICDVHVNSSETQLKQHISSRRHKDRAAGKPP  
KPKYSPYNKLQKTAHPLGVKLVFSKEPSKPLAPRILPNPLAAAAAAAVAVSSPFSRLTA  
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>sp|Q96KM6|Z512B\_HUMAN Zinc finger protein 512B OS=Homo sapiens GN=ZNF512B PE=1 SV=1

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PGSPASDKTEGKKKGRPKAENQALRDIPLSLMNDWKDEFKAHSRVKCPNSGCWLEFPSIY  
GLKYHYQRCQGGAISDRLAFPCPFCEAAFTSKTQLEKHRIWNHMDRPLPASKPGPISRVP  
TISRPGVSKPIGVSKPVTIGKPVGVSKPIGSKPVSVGRPMPTKAIPVTRPVPTKPV  
TVSRMPVPTKAMPVTKPITVTKSVPTKPVPTKPIVTKLVTVTKPVPTKPVTVSRPI  
VVSKPVTVSRPIAISRHTPPCKMVLLTRSENKAPRATGRNSGKKRAADSLDTCPIPPKQA  
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RRKQKTPKKFTGEQPSISGTFGLKGLVKAEDKARVHRSKKQEGPGPEDARKKVPAAPITV  
SKEAPAPVAHPAPGGPEEQWQRAIHERGEAVCPTCNVTRKTLVGLKKHMEVCQKLQDAL  
KCQHCRKQFKSKAGLNYHTMAEHSAPSDAEASEGGEQEERERLRKVLKQMGRLRCPQEG  
CGAAFFSSLMGYQYHQRRCGKPPCEVDSPSPFCTHCGKTYRSKAGHDYHVRSEHTAPPEE  
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RLNYTRPGLPTLNPQLLEAWKNEVKEKGHVNCNDCCEAIYSSVSGLKAHLASCSKGAHL  
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>sp|Q6ZN79|Z705A\_HUMAN Zinc finger protein 705A OS=Homo sapiens GN=ZNF705A PE=2 SV=1

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QGKELWREGREFLQDQNPDRSALKKKHISMHPITRKDASTSMTMENSLILEDPFECND

SGEDCTHSSTITQRLLTHSGKKPYVSKQCGKSLRNLFSPKPHKQIHTKGKSYQCNLCEKA  
YTNCFRLRRHKMTHTERPYACHLCGKAFTQCSHLRRHEKTHTERPYKCHQCGKAFIQS  
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>sp|A8MVS1|Z705F\_HUMAN Zinc finger protein 705F OS=Homo sapiens GN=ZNF705F PE=3 SV=1

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SGEDCTHSSTITQCLLTHSRKKPYVSKQCGKSLRNLLSPKPRKQIHTKGKSYQCNLCEKA  
YTNCFYLRHKMTHTERPYACHLCGKAFTQCSHLRRHEKTHTERPYKCHQCGKAFIQS  
FNLRRHERTHLGKKCYECDKSGKAFSQSSGFRGNKIIHIGEKPHACLLCGKAFLSSDLR

>sp|075290|Z780A\_HUMAN Zinc finger protein 780A OS=Homo sapiens GN=ZNF780A PE=2 SV=3

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DSEYRQFEGLQGYQEGNINQMISYEKLPHTPHASLICNTHKPYECKECGKYFSRSANL  
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NIHTGEKLFECKECGKSFNRSSNLVQHQSIIHSGVKPYECKECGKGFNRGAHLIQHQKIHS  
NEKPFVCKECGMAFRYHYQLIEHCQIHTGEKPFECKECGKAFTLLTKLVRHQIHTGEKP  
FECRECGKAFLSLLNQLNRHKNIHTGEKPFECKECGKSFNRSSNLVQHQSIIHAGIKPYECK  
ECGKGFNRGAHLIQHQKIHSNEKPFVCRECEMAFRYHCQLIEHSRIHTGDKPFECQDCGK  
AFNRGSSLVQHQSIIHTGEKPYECKECGKAFLYLQLSQHQKTHTEKPFECKECGKFFRR  
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>sp|A4D1E1|Z804B\_HUMAN Zinc finger protein 804B OS=Homo sapiens GN=ZNF804B PE=2 SV=2

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LRQQSECVSGNGPAYKAPRAIEKQLQQGIFPIKNGRQVSCMKSALLLKGNLPRIISDK  
QRSTMPNRHLQSDRRCLFGNQVLQTSSDLNANHRTGVSFTFSKKVHLKLESSASVFSE  
NTEETHDCNKSPIYKTKQADCKCCRFANKDTHLTKEKEVNISPSHLESVLHNTISINS  
KILQDKHDSIDETLEDSIGIHASFSSNIHLSVDVFTPTSREKETRNTLKNLENCVNHP  
CQANASFSPNIIYNHSDARISECLDEFSSLEPSEQSTVHLNPNRSRIENREKSLDKTERV  
SKNVQRLVKEACTHNVASKPLPFLHVQSKDGHTTLQWPTELLLFTKTEPCISYGCNPLYF  
DFKLSRNTKEDHNLDELKTELGGKPLELTKRESQVSGLTEDQQKLIQEDYQYPKPKTMI  
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KLKEASRAHWQGCRAVLNDIDEDLSFPSYISRFKKHLIPCSPHLEFEDERQFNCKSSP  
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DCDNHLSKGIHVLTESQSLNIKRDAATTEQSKPLISEIQPFIQSCDPVPNEFPAGFPSN  
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QDFCHHSCSSQMQQLNEVKEALNVSTHLN

>sp|Q9Y493|ZAN\_HUMAN Zonadhesin OS=Homo sapiens GN=ZAN PE=2 SV=4

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GKPGVGPDPGDFSSPGSGCYMLLDPKNARPGQKAVLLSPVSLSSGCLSFHFYILRGQSPG  
AALHIYASVLGSIRKHTLFSGQPGPNWQAVSVNYTAVGRIQFAVVGVFVKTPPEPAVAVDA  
TSIAPCGEGFPQCDFEDNAHPFCDWVQTSGDGGHWALGHKNGPVHGMGPAGGFPNAGGHY  
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WKRVGSRQPYWQNTSVTPVSGHQPMQLIFKGIQGSNTASVAMGFILINPGTCPVKVLP  
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TIPTKPTIPTEKPTISTEPTTPTEETTISTEKPSIPMEKPTLPTEETTSVEETTIST  
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APSTPMTSVILGTTTTSRSSSTERCPPNARYESCACPASCKSPRPSGGLCREGCVCNPGF  
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KNGQYGCHPYAGTATCLVYGDPHYVTFDGRHFGFMGKCTYILAQPCGNSTDPPFRVTAKN  
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CMLDMCGFQGLQHLLCTHMSTMTTCQDAGHAVKPWREPHFCPMACPPNSKYSKCAKPCP  
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KELCVCESNNRIRCQPWRCRAQEFCEGQDGIYGCHAQGAATCTASGDPHYLTFDGLHHF  
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IGVQVKFDGNHLLLEIEIPTTYGKVCGMCGNFNDEEDELMMPSDEVANSDFVNSWKD  
KDIDPSCQSLLVDEQQIPAEQQENPSGNCRAADLRAREKCEAALRAPVWAQCASRIDLT  
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LPSCSPSCWDLDRCEGAKVPSACAEGCICQPGYVLSDEKCVPRSQCGCKDAHGGSIPLG  
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TFDGFYRLQGRMTYVLIKTVLPEGVEPLLVEGRNKMPPRSSIFLQEVITTVYGYKV  
QLQAGLELVVNNQKMAVPYRPNEHLRVTLWGQRLYLVTDFELVVSFGGRKNAVISLPSMY  
EGLVSGLCGNYDKNRKNDMMLPSGALTQNLNFTGNSWEVKTEDALLRFPRAIPEEEGQG

AELGLRTGLQVSECSPEQLASNSTQACRVLADPQGPFACHQTVAPEPFQEHCVLDLCSA  
QDPREQEELRCQVLSGHGVSSRYHISELYDTLPSILCQGRPRGLRGPLRGRLRQHPRLC  
LQWHPEPLADCGCTSNGIYYQLGSSFLTEDCSQRCTCASSRILLCEPFSCRAGEVCTLG  
NHTQGCFPESPCLQNPCQNDGQCREQGATFTCECEVGYGGGLCMEPRDAPPPRPASNLV  
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>sp|Q96FA7|ZB6CL\_HUMAN ZBED6 C-terminal-like protein OS=Homo sapiens GN=ZBED6CL PE=2 SV=1  
MVVREASAAQASLSQVLPQLRYLHIFLEQVHTHFQEQSVGERGAIIQLAEGLARQLCTDC  
QLNKL FYREEFVLATLLDPCFKGKIEAILPWGPTDIDHWKQVLVYKVKEIRVSEYSLNSP  
SPLQSPRGLCVDPTRVAKSSGVEGRSQGEPLQSSSHSGAFLLAQREKGLLESMGLLASER  
SGGSLSTKSHWASIIVKKYLWENETVGAQDDPLAYWEKKREAWPPSICLTPHRSL

>sp|075132|ZBED4\_HUMAN Zinc finger BED domain-containing protein 4 OS=Homo sapiens  
GN=ZBED4 PE=1 SV=2

MENNLKTCPKEDGDFVSDKIKFKIEEEDDDGIPPSLERMDFKSEQEDMKQTDSSGERAG  
LGGTGCSCKPPGKYLSAESEDDYGALFSQYSSSTLYDVAMEAVTQSLLSSRNMSRKKSPA  
WKHFFISPRDSTKAICMYCVKEFSRGKNEKDLSTSCLMRHVRRHPTVLIQENGSVSAVS  
SFPSPSLLLPPQPADAGDLSTILSPIKLQKVASKIPSPDRITEESVSVVSSEEISSDMS  
VSEKCGREEALVGSSPHLPALHYDEPAENLAESLPLPKSTSGSRRRS AVWKHFYLSPLD  
NSKAVCIHCMNEFSRGKNGKDLGTSLIRHMWRAHRAIVLQENGGTGIPPLYSTPPTLLP  
SLLPPEGELSSVSSSPVKPVRESPSASSSPDRLTEDLQSHLNP GDGLMEDVAAFSSDDI  
GEASASSPEKQQADGLSPRLFESGAIFQQNKVMKRLKSEVWHHFS LAPMDSLKAECRYC  
GCAISRGGKGDVGTSCLMRHLYRRHPEVVGSKGFLGASLANSPYATLASAESSSSKLT  
LPTVVTKNQVMFPVNSKTSKLWNHFSICSADSTKVCLHCGRTISRGGKPTNLGTSL  
LRHLQRFHNSVLKTEVSETARPSSPDTRVPRGTELSGASSFDDTNEKFYDSHPVAKKITS  
LIAEMIALDLQPYSFVDNVGFNRLLLEYLKPQYSLPAPSYFSRTAIPGMYDNVKQIIMSHL  
KEAESGVIHFTSGIWMNSQTREYLTLTAHWVSFESPARPRCDDHHC SALLDVSQVDCDYS  
GNSIQKQLECWWEAWVTSTGLQVGITVTDNASIGKTLNEGEHSSVQCFSHTVNLIVSEAI  
KSQRMVQNLLSLARKICERVHRSPKAKEKLAELQREYALPQHHLIQDVPSKWSTSFHMLE  
RLIEQKRAINEMSVECNFRELISCDQWEVMQSVCRALKPFEAASREMSTQMSTLSQVIPM  
VHILNRKVEMLFEETMGIDTMLRSLKEAMVSRLSATLHDPYVVFATLLDPYKASLFTTE  
EAEQYKQDLIRELELMNSTSEDVAASHRC DAGSPSKDSAAEENLWSLVAKVKKKDPREKL  
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>sp|P86452|ZBED6\_HUMAN Zinc finger BED domain-containing protein 6 OS=Homo sapiens  
GN=ZBED6 PE=3 SV=1

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KKKRRKGLRIKGRRRRKKLILAKKFSKDLGSGRPVADAPALLASNDPEQDEESLFESNIE  
KQIYLPSTRAKTSIVWHFFHVD PQYTWRAICNLCEKSVSRGKPGSHLGTSTLQRHLQARH  
SPHWTRANKFGVASGEEDFTLDVSLSPSSGSNGSF EYIPTDPLDDNRMGKKHDKSASDAL  
RAERGRFLIKSNIVKHALIPGTRAKTS AVWNFFYTD PQHISRVCNICKRSVSRGRPGSH  
LGTSTLQRHLQATHPIHWAVANKDSGAVANGLDEAETERSDLLSDTLHGEKSTGSQDLTA  
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DMHPYNYFSTPAFQRFMQIVAPDYRLPSETYFFTKAVPQLYDCVREKIFLTLENVQSQKI  
HLTVDI WTHDPSTDYFIVTVHWSLETASFLNNGRIPDFRKWAVLCVTGLAKDCLITNIL  
QELNDQIGLWLSPNFLIPSFIVSDNSSNVVHAIKDGGFTHVPCFLHCLNMVIQDFFCEHK



SIENMLVAARKTCHHFSHSVKARQILQEFQNDHQLPWKNLKQDETGHWISTFYMLKWLLE  
HCYSVHHSLGRASGVVLTSLQWTLMTYVCDILKPFEEATQKVSVKTAGLNQVLPLIHLL  
LSLQKLREDFQVRGITQALNLVDSLKLETDLTLSAMLKSKPCILATLLDPCFKNSLED  
FFPQGADLETYKQFLAEVVCNMESSPEICQIPTSEASCPSVTVGADSFTSSLKEGTSSS  
GSVDSSAVDNVALGSKSFMFPSAVAVVDEYFKEKYSEFSGGDDPLIYWQRKISIWPAITQ  
VAIQYLSCPMCSWQSECIFTKNSHFHPKQIMSLDFDNIEQLMFLKMNLKNVNYDYSTLV  
SWDPEQNEVVQSSEKEILP

>sp|Q9H171|ZBP1\_HUMAN Z-DNA-binding protein 1 OS=Homo sapiens GN=ZBP1 PE=1 SV=2

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GPQRALVIAQALGMRTAKDVNRDLYRMKSRHLLDMDEQSKAWTIYRPEDSGRRAKSASII  
YQHNPINMICQNGPNSWISIANSEAIQIGHGNIITRQTVSREDGSAGPRHLPSMAPGDSS  
TWGTLVDPWGPQDIHMEQSILRRVQLGHSNEMRLHGVPSGPAHIPPSPVVSATAAGPE  
ASFEARIPSPGTHPEGEAAQRIHMKSCFLEDATIGNSNKMSISPGVAGPGGVAGSGEGEP  
GEDAGRRPADTQSRSHFPRDIGQPITPSHKLTPKLETMTLGNRSHKAAEGSHYVDEASH  
EGSWWGGGI

>sp|Q96DT7|ZBT10\_HUMAN Zinc finger and BTB domain-containing protein 10 OS=Homo sapiens  
GN=ZBTB10 PE=1 SV=2

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RTLAFRGGGGGGLGNGSSRGRPETS VWPLRHFNGRGPATVDLELDALEGKELMQDGASL  
SDSTEDEEEGASLGDGSGAEGGSCSSRRSGDGGDEVEGSGVGAGEGETVQHFPLARPK  
SLMQKLQCSFQTSWLKDFPWLRYSKDTGLMSCGWCQKTPADGGSDLPVGHDELSRGTR  
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GILCDVSI VVSGIKFAHKNILVAGSRFFKTL YCFSNKESPNQNTTHLDIAAVQGFSVI  
LDFLYSGNLVLT SQNAIEVMTVASYLQMSEVVQTCRNF IKDALNISIKSEAPESVVDYN  
NRKPVNRDGLSSSRDQKIASFWATRNLTNLASNVKIENDGCNVDEGQIENYQMNDSSWVQ  
DGSPMAENESEGGTKVFIWNNMGSQGIQETGKTRRNQTTKRFIYNIPNNETNLEDCS  
VMQPPVAYPEENTLLIKEEPDLGALLSGPDGDRNVNANLLAEAGTSQDGGDAGTSHDFK  
YGLMPGPSNDFKYGLIPGTSNDFKYGLIPGASNDFKYGLLPESWPKQETWENGESSLIMN  
KLKCPHCSYVAKYRRTLKRHLLIHTGVRFSFCDICGKLFTRREHVKRHSLVHKDKKYYKC  
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EAEDELVDGEGDQNDPSRWDESGEVCMSLDD

>sp|Q8N2G6|ZCH24\_HUMAN Zinc finger CCHC domain-containing protein 24 OS=Homo sapiens  
GN=ZCCHC24 PE=1 SV=1

MSLLSAIDTSAASVYQPAQLLNWVYLSLQDTHQASAFDAFRPEPTAGAAPPELAFGKGRP  
EQLGSPHSSYLSNFFQLQRGEALSNSVYKGASPYGSLNNIADGLSSLTEHFSDLTLTSE  
ARKPSKRPPPNYLCHLCFNKGHYIKDCPQARPKGEGLTPYQGKKRCFGEYKCPKCKRKWM  
SGNSWANMGQECIKCHINVYPHKQRPLEKPDGLDVSDQSKEHPQHLCEKCKVLGYCRRV  
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>sp|Q9NUD5|ZCHC3\_HUMAN Zinc finger CCHC domain-containing protein 3 OS=Homo sapiens  
GN=ZCCHC3 PE=1 SV=1

MATGGGAEEERKRGRPQLLPARPAARGEEDGGREKMGWAQVVKNLAEKKGEFREPRPP  
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GRRKKAEEEEAMATPARPGEAEDAAERPLQDEPAAAAAGPGKGRFLVRICFQGDEGACP  
TRDFVVGALILRSIGMDPSDIYAVIQIPGSREFDVSFSAEKLALFLRVYEEKREQEDCW  
ENFVVLGRSSSLKTLFILFRNETVDVEDIVTWLKRHCDVLAVPVKVTDRFGIWTGEYKC  
EIELRQGEQGVRLPGAFFLGAERGYSWKYKQPKTCFKCGSRTHMSGSCTQDRCFRCGEE  
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>sp|Q8N3Z6|ZCHC7\_HUMAN Zinc finger CCHC domain-containing protein 7 OS=Homo sapiens  
GN=ZCCHC7 PE=1 SV=2

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SSLQSNELVDKKCKSDIEKPKSEERSGVIREVMIIEVSSSEEEESTISEGDNVESWMLLG  
CEVDDKDDILLNLVGCENSVTEGEDGINWSISDKDIEAQIANRTPGRWTQRYYSANKN  
IICRNCDKRGHLSKNCP LPRKVRRCFLCSRRGHLLYSCAPLCEYCPVKMLDHSC LFRH  
SWDKQCDRCHMLGHYTDACEIWRQYHLTTKPGPPKKPKTPSRPSALAYCYHCAQKGHYG  
HECPEREVYDPSVPSPFICYDDKYEIQEREKRLKQKIKVLKNGVIPLEPSKLPYIKAAN  
ENPHHDIRKGRASWSNRWPQENKETQKEMKNKRNWEKHRKADRHREVD EDFPRGPKTY  
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KKS

>sp|Q6NZY4|ZCHC8\_HUMAN Zinc finger CCHC domain-containing protein 8 OS=Homo sapiens  
GN=ZCCHC8 PE=1 SV=2

MAAEVYFGDLELFEPFDHP EESIPKPVHTRFKDDDGD EEDENGVD AELRERLRQCEETI  
EQLRAENQELKRKLNLTRPSGILVNDTKLDGPILQILFMNNAISKYHQEIEEFVSNLV  
KRFEEQQKNDVEKTSFNLLQPSSIVLEEDHKVEESCAIKNNKEAFSVVGSVLFTNFCL  
DKLGQPLLNNENPQLSEGWEIPKYHQVFSHIVSLEGQEIQVKAKRPKPHCFNCGSEEHQMK  
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VTDKSLPPFIYRMRQLGYPPGWLKEAELENSGLALYDGKDGTDGETEVEIQNKSVTYD  
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SHSSPGSPKKQKNESNSAGSPADMELDSDMEVPHGSQSSESFQFQPPLPPDTPPLPRGTP  
PPVFTPPLPKGTPPLTPSDSPQRTASGAVDEDALTLEEL EEQRR IWAAL EAESVNSD  
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SEVTS LCQKEKAELAPVNTEGALLDNGSVVPNCDISNGGSQKLPADTSPSTATKIHSP I  
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>sp|Q75MW2|ZN767\_HUMAN Protein ZNF767 OS=Homo sapiens GN=ZNF767P PE=5 SV=1

MEEAAAAPISPWTMAATIQAMERKIESQAAHLLSLEGQTGMAEKKLADCEKTAVEFGNQL  
EGKWAVLGTLLQEYGLLQRRLENVENLLHNRNFWILRLPPGSKGESPKTTPSPSPRSSPR  
LNKGRSPATGAALTPRFQMFLWTPVQMQLRPSRD

>sp|Q6PK81|ZN773\_HUMAN Zinc finger protein 773 OS=Homo sapiens GN=ZNF773 PE=2 SV=1

MAAATLRDPAQQGYVTFEDVAVYFSQEEWRLLDDAQRLLYRNVMLNFTLLASLGLASSK  
THEITQLESWEEPMPAWEVVTSAILRGSWQAKAEAAAEQSASVEVPSSNVQQHQKQHC  
GEKPLKRQEGRVPVLRSCRVLSEKSLQSREVGKDLLTSSGVLKHQVTHTGEKSHRSSKS  
REAFHAGKRHYKCECGKAFGQKYLLVQHQLRHTGEKPYECSECGKLF SHKSNLFIHQIV  
HTGERPYGSCDCGKSFSRNADLIQHQRVHTGEKPFTCSECGKAFRHNSTLVQHHR IHTGV  
RPYECSECGKLF SFNSSLMKHQRVHTGERPYKCECGKFYSHKSSLINHWRVHTGERPYE  
CSECGKFFSQSSSLMQHRKVHTGEKPFKCN ECGRFFSENSSLVKHQRVHTGAKPYECREC  
GKFFRHSSSLVKHRR IHTGEIQ

>sp|Q96MU6|ZN778\_HUMAN Zinc finger protein 778 OS=Homo sapiens GN=ZNF778 PE=1 SV=3

MAAPDLAHGGHVSRSVCLHEEQTAAGMVAGWLINCYQDAVTFDDVAVDFTQEEWTLLD  
PSQRDLYRDVMLENYENLASVEWLRTKGPALRQDRSWFRASNETQTARSHNGGQLCDRT  
QCGEAFSEHSGSLSTHVRTQNTGDCSVSNHYERDFFIPCQKTLFKIGEQFSVLGQCGKAFS  
STPNVVSQQACTRDRSLDYSSCGEVFLNQSYLQARAGSHNGEETWKWKPCGKALTHSMGC  
ATPVEMHAVRNPHVCRECGKAFRYTAYLTGRVQVHPGEKPCELEECGKASPVSSSLTQHV  
RIHAAEKPCCECKGKAFTGLSGLSKHVQTDPGQKPYECKDCGKACGGFYLLNEHGKTHT  
REKPFACVVCGKYFRNSSCLNNHVRIHTGIKPYTCSYCGKAFTVRCGLTRHVRTHTGEKP  
YTCKDCGKAFTSSGLTEHVRTHTGEKPYECKDCGKSFTVSSSLTEHARIHTGEKPYECK  
QCGKAFTGRSGLTKHMRHTHTGEKPYECKDCGKAYNRVYLLNEHVKTHTEEKPFICTVCRK  
SFRNSSCLNKHIQIHTGIKPYECKDCGKFTFTVSSSLTEHIRHTHTGEKPYECKVCGKAFTT  
SSHLIVHIRTHTGEKPYICECKGKAFASSSHLIEHRRHTHTGEKPYICNECGKAFASSHL  
HKHGRIHTGQKPYKCECKGAYNRFYLLKEHLKTYTEEQVFVCKDCGKSFKNSSCLNHHT  
QIHTDEKPF

>sp|Q8NCA9|ZN784\_HUMAN Zinc finger protein 784 OS=Homo sapiens GN=ZNF784 PE=1 SV=1

MAAARPEAQSRSSPTPESRSQEPLDLVLPDDCRPGTPPSDLIEIQVVKVTDTTLVPEPP  
EPGSFHCALCPAAFRVLSELLFHEHGLAGAEGGGQGGDPSRCHVCGHSCPGPASLRAHY  
SLHTGERPYRCALCPRAFKALAPLLRHQHRHGVEPGTSRRPPDTAAVAEQRPGVAPERAE  
VVMAAAAAGAAVGKPFACRFCAKPFRRSSDMRDHERVHTGERPYHCGICGKGFTQSSVLS  
GHARIHTGERPFRCTLCDRTFNSSNFRKHQRTHFHGPGPGLGDSGGQLGSSAAEGSGSG  
CGVGDPAEGRGETAKVKVEADQ

>sp|A8K8V0|ZN785\_HUMAN Zinc finger protein 785 OS=Homo sapiens GN=ZNF785 PE=1 SV=1

MGPPLAPRPAHVPGAGPRRTRESRPGAVSFADVAVYFSPEWECLRPAQRALYRDMRE  
TFGHLGALGFSVPKPAFISWVEGEVEAWSPEAQDPDGESSAAFSRGGQEAGSRDGNEEK  
ERLKKCPKQKEVAHEVAVKEWWPSVACPEFCNPRQSPMNPWLKDTLTRRLPHSCPDCCRN  
FSYPSLLASHQRVHSGERPFCGQCQARFSQRRYLLQHQQIHTGEKPYPCPDCGRRFRQR  
GSLAIHRRHTGEKPYACSDCKSRFTYPYLLAIHQKHTGEKPYSCPDCSLRFAYTSLLA  
IHRIHTGEKPYPCPDCGRRFTYSSLLSHRRIHSDSRPFPCVECGKGFKRKTALEAHRW  
IHRSCSERRAWQAVVGRSEPIPVLGKDPVHFRHFPDIFQECG

>sp|Q6DD87|ZN787\_HUMAN Zinc finger protein 787 OS=Homo sapiens GN=ZNF787 PE=1 SV=3

MELREEAWSPGLDSEDQQMASHENPVDILIMDDDDVPSWPPTKLSPQSPAGPPPRP  
RPPAPYICNECGKFSHWSKLTRHQRTHGERPNACADCGKTFSSHLVQHRRIHTGEK  
PYACLECGKRFSWSSNLMQHRIHTGEKPYTCPDCGRSFTQSKSLAKHRRSHSGLKPFVC  
PRCGRGFSQPKSLARHLRLHPELSGPGVAAKVLAAVRRAGPPEEVAADGEIAIPVGDG  
EGIIIVGAPGEGAAAAAAMAGAGAKAAGPRRRAPAPKYVCLECGKGFHGAGLLAHQR  
AQHGDGLGAAGGEEPAHICVECGEGFVQGAALRRHKKIHAVGAPSVCSGQSYRAGGE  
EEDDDDDAAGGRCPECRGGEGR

>sp|Q6ZQV5|ZN788\_HUMAN Zinc finger protein 788 OS=Homo sapiens GN=ZNF788 PE=2 SV=2

MNVRIILRRHLVFPFIFIVIKELTLEGTPMNVNLENPLDAPQNFCKMQGLSVEKPYCKK  
CEKAFNNLSSFQIHERMHRGGKYHACKGSGNTYRFSGFYHRHKMPHAGGKFYGCCKCGKA  
FISFCAFRYHQRTHTEKPYACKQCGKAYISYTSFYHQLNHTGAKCYECKQCGKGFDP  
NSIRYHEMHTHTGEKPHECKQCGKTFRCASSLRHGRHTHTGEKPYECKQCGKVSRYWSGLQ  
VHEVTHIGKKLYECKECKGSYSSGSFLNHKRIHTREKSYECKECKGAFGNPISFQKHEG  
SHRKWKPYECKECKGVFSFSSSLRRHERHTTEKLCECKQHKGKGFHRSCPRHMKIDTGEI

LHKRKIRGKVFHSPSSFQTCERSHTREKRYKCKQCGKPFIFYFNAFQRHQRSHTGENPYEC  
KQCGKACISSTAFQCRELSHTGAKRYKCKQCGKGFNLPSSIRYHEMHTGKPYECKQCG  
RAFRSASHLRTHERTHIGKPYECKQCGKVYRYWSGLRIHGLTHIGKKPYEFNDRGKSFY  
SSNFFLNHKRVHTRVKTYECKECGKAFDNPTSFQKHEGSHRKGKSYECKECGKVFSFSRS  
FRRYERAHTGEKPCE

>sp|Q6PG37|ZN790\_HUMAN Zinc finger protein 790 OS=Homo sapiens GN=ZNF790 PE=2 SV=2  
MAHLMFDRVAVDFSQEEWECLDLEQRDLRYDVMLENYSNMVSLGFCIYQPEAFSLLEKG  
KEPWKILRDETRGPCPDMQSRCQTKKLLPKNGIFEREIAQLEIMRICKNHSLDCLCFRGD  
WEGNTQFQTLQDNQEECFKQVIRTCEKRPTFNQHTVFNLHQRLNTGDKLNEFKELGKAFI  
SGSDHTQHQLIHTSEKFCGDKCEGNTFLPDSEVIQYQTVHTVKKTYECKECGKSFSRLRSS  
LTGHKRIHTGEKPFKCKDCGKAFRFHSQLSVHKRIHTGEKSYECKECGKAFCGSDLTRH  
QRIHTGEKPYECNECRKAFSQRSHLIKHQRIHTGEKPYECKECGKAFTRGSHLTQHQRH  
TGEKSHECKECGKAFIGSNLAHQNVHVGRKPYKCEKCGKAYIWSSHLARHQRIHTGRK  
PYECKQCGKTFTWASYLAQHEKIHNERKSYECKECGKTFLHGSEFNHRHQIHTGERNYEC  
KECGKTFFRGSELNRHQIHTGKRPYECECGKAFLWGSQLTRHQMHTGEEPVYCKECG  
KSFIWGSQLTRHKKIHTDAEPYGCKKSSHIFSHHSYFTEQKIHNSANLCEWTDYGNTFSH  
ESNFAQHQNITYTFEKSYEFKDFEKAFFFFSSSHFISLL

>sp|Q2TB10|ZN800\_HUMAN Zinc finger protein 800 OS=Homo sapiens GN=ZNF800 PE=1 SV=1  
MPLRDKYCQTDHHHHGCCPEVYILEPGDPPLLQQPLQTSKSGIQIIECFRSGTKQLKHI  
LLKDVDITFECKLCSRSLFRGLPNLITHKKFYCPPSLQMDNLPDVNDKQSQAINDLLEAI  
YPSVDKREYIIKLEPIETNQNAVFQYISRTDNPIEVTESSSTPEQTEVQIQTETSTEQSKT  
VPVTDTEVETVEPPPVEIVTDEVAPTSDEQPQESQADLETSDNSDFGHQLICCLCRKEFN  
SRRGVRRHIRKVHKKMEELKKYIETRKNPNQSSKGRSKNVLPVLSRSCPVCCKSFATKA  
NVRHFDEVHRGLRRDSITPDIAKPGQPLFLDSISPKKSFKTRKQKSSSKAEYNLTACK  
CLLCKRKYSSQIMLKRHMQIVHKITLSGTNSKREKGPNNNTANSSEIKVKVEPADSVESP  
PSITHSPQNELKGTNHSNEKKNTPAAQKNKVKQDSESPKSTSPSAAGGQKTRKPKLSAG  
FDFKQLYCKLCKRQFTSKQNLTKHIELHTDGNNIYVKFYKPLCTYETRRKRDVIRHITV  
VHKSSRYLGKITASLEIRAIIKPIDFVLNKVAKRGP SRDEAKHSDSKHDGTSNPSKKY  
EVADVGIEVKVTKNFSLHRCNCGKAFAKKTYLEHHKKTHKANASNSPEGNKTKGRSTRS  
KALV

>sp|Q8N4W9|ZN808\_HUMAN Zinc finger protein 808 OS=Homo sapiens GN=ZNF808 PE=2 SV=2  
MLREEAAQKRKGKESGMALPQGRLTFRDVAIEFSLAEWKFLNPAQRALYREVMLENYRNL  
EAVDISSKHMMKEVLSTGQGNREVIHTGTLQRHQSYHIGDFCFQEIEKEIHNIEFQCQED  
ERNHGHEAPTTIKKLTGSTDQHDHRHAGNKPIKDQLGSSFYSHLPELHIFQIKGEIANQL  
EKSTSDASSVSTSQRISCRPQIHSNNYGNNPLNSSLLPQKQEVHMREKSFPCNESGKAF  
NCSSLLRKHQIPHLGDKQYKCDVCGKLFNHHKQYLACHRRCHTGEKPYKCKECKGSFSYKS  
SLTCHHRLHTGVKPYKNECGKVFRQNSALVIHKAHTGEKPYKNECGKAFNQSHLSR  
HQLRHTGVKPYKCKICEKAFACHSYLANHTRIHSGEKTYKNECGKAFNHQSSSLARHHIL  
HTGEKPYKCEECDKVFSQKSTLERHKRIHTGEKPYKCKVCDTAFTCNSQLARHRIHTGE  
KTYKNECRKTFRRSSLLCHRRLHSGEKPYKCNQCGNTFRHRASLVYHRRLHTLEKSYK  
CTVCNKVFMNRSVLAVHTRIHTAKKPYKNECGKAFNQSHLSRHRRLHTGEKPYKCEAC  
DKVFGQKSALESHKRIHTGEKPYRCQVCDTAFTWNSQLARHTRIHTGEKTYKNECGKTF  
SYKSSLVWHRRLHGGEKSYKCKVCDKAFVCRSYVAKHTRIHSGMKPYKNECSKTF SNRS  
SLVCHRRRIHSGEKPYKSECSKTF SQKATLLCHRRLHSGEKPYKNCDCGNTFRHWSSLVY

HRRLHTGEKSYKCTVCDKAFVRNSYLARHIRIHTAEKPYKCNECGKAFNEQSHLSRHHRI  
HTGEKPYKCEACDKVFSRKSLSLKRHRI IHTGEKPYKCNECGKAFSDRSTLIHHQAIHGIG  
KFD

>sp|B7Z6K7|ZN814\_HUMAN Putative uncharacterized zinc finger protein 814 OS=Homo sapiens  
GN=ZNF814 PE=1 SV=2

MAAAATLRLSAQGTVTEDVAVNFTWEEWNLLSEAQRCLYRDVTLENLALISSLGWCWGV  
EDEAAPSKQSIYIQRETQVRTPMAGVSPKKAHPCEMCGPILGDILHVADHQGTHHKQKLH  
RCEAWGNKLYDSGNFHQHQNEHIGEKPYRGSVEEALFAKRCKLHVSGESSVFSESGKDFL  
PRSGLLQQEASHTGEKSNSKTECVSPIQCGGAHYSCGESMKHFSTKHILSQHQRLLTREE  
CYVCCECGKSFSKYASLSNHQRVHTEKKHECGECGKSFSKYVSFSNHQRVHTEKKHECGE  
CGKSFSKYVSFSNHQRVHTGKRPEYECGECGKSFSKYASFSNHQRVHTEKKHYECGECGKS  
FSKYVSFSNHQRVHTGKRPEYECGECGKSFSKYASFSNHQRVHTDKKHIECGECGKSFSQK  
SSLIQHQRFHTGEKPYGCEECGKSFSSEGHLSHQRVHAGERPFKCGECVKSFSSHKRSLV  
HHQRVHSGERPYPYQCEGCGKSFSQKGNLVLHQRVHTGARPYECGECGKSFSKGHLRNHQQ  
IHTGDRLYECGECGKSFSHKGTLILHQRVHPRERSYCGECGKSFSISGHLSHQRVHTG  
ERPYECEGCGKSFSHKRSLVHHQRMHTGERPYKCGDCGKSFNEKGHLRNHQRVHTTERPF  
KCGECGKCFSHKGNLILHQHGHTGERPYVCRECGKLFKKKSHLLVHQRIHNGEKPYACEA  
CQKFFRNKYQLIAHQRVHTGERPYECNDCGKSFTHSSTFCVHKRIHTGEKPYECSECGKS  
FAESSFTKHKRVHTGEKPYECSECGKSFAESSSLTKHKRVHTGEKPYKCEKCGKLFNKK  
SHLLVHQSSHWRKAI

>sp|Q0VGE8|ZN816\_HUMAN Zinc finger protein 816 OS=Homo sapiens GN=ZNF816 PE=2 SV=2

MLREEATKKSKEKEPGMALPQGRLTFRDVAIEFSLEEWKCLNPAQRALYRAVMLENYRNL  
EFVDSSLKSMMEFSSTRHSITGEVIHTGTLQRHKSHHIGDFCFPEMKKDIHHFEFQWQEV  
ERNGHEAPMTKIKKLTGSTDRSDHRHAGNPKIKDQLGLSFHSHLPELHMFQTKGKISNQL  
DKSIGASSASESQRISCKLTHISNKYGNFLHSSFTQIQEICMREKPCQSNCEGKAFNY  
SSLLRRHHITHSREREYKCDVCGKIFNQKYIVYHHRCHTGEKTYKCNECGKTFTQMSSL  
VCHRLHTGEKPYKCNECGKTFSEKSSLRCHRLHTGEKPYKCNECGKTFGRNSALVIHK  
AIHTGEKPYKCNECGKTFQSSQLQCHHILHTGEKPYKCEECDNVYIRSHLERHRKIHT  
GEGSYKCKVCDKVFRRSDSYLAHQRVHTGEKPYKCNKCGRSFSRKSSLQYHHTLHTGEKP  
YTCNECGKVFSRRENLARHRLHAGEKPYKCEECDKVFSRRSHLERHRIHTGEKPYCK  
VCDKAFRSDSCLANHTRVHTGEKPYKCNKCAKVFNQKILAQHQRVHTGEKPYKCNECGK  
VFNQKASLAKHQRVHTAEKPYKCNECGKAFTGQSTLIHHQAIHGCRETLQM

>sp|Q6ZRF7|ZN818\_HUMAN Putative zinc finger protein 818 OS=Homo sapiens GN=ZNF818P PE=5  
SV=1

MLERNLTSMMSVVEPLPRPLTSLYIRLSILERNHNMITYMAKSSVKIHISKVIIGFVLKR  
SLTNVCGKVLSQLNSHLVNHQRIHTGEKSYRCHECGKAFTQGSRFINHQIVHTGENFPNVL  
NVARLLRMALNSGLTK

>sp|Q6ZT77|ZN826\_HUMAN Putative zinc finger protein 826 OS=Homo sapiens GN=ZNF826P PE=5  
SV=2

MRRFILERNPTNVKNMAKLSPIPHTLGIRKFMLEARNHTSVINVAQPLFYPQPLVNMRRF  
ILERNSTNVKNVAKPSTIFHTLLYIRQFILERNAINGIKTFTWSSSPHKHRRHTHTGEKPY  
KCEECGKAFTASSTLSEYKTIHTGEKPKCEECGKAFNWSSDFNKHKRIHSGQKPIL

>sp|Q3KNS6|ZN829\_HUMAN Zinc finger protein 829 OS=Homo sapiens GN=ZNF829 PE=2 SV=1

MPHSPLISIPHVWCHPEEEERMHDELLQAVSKGPVMFRDVSIDFSQEEWECLDADQMPLY

KEVMLENFSNLVSVGLSNSKPAVISLLEQGKEPMMVDRELTRGLCSDLESMCETKILSLK  
KRHFSQVIITREDMSTFIQPTFLIPPQKTMSEKPEWCKICGKTFNQNSQFIHQRIHFG  
EKHYESKEYGKSFSRGLVTRHQRIHTGKKPYECKECGKAFSCSSYFSQHRIHTGEKPY  
ECKECGKAFKYCSNLNDHQRIHTGEKPYECKVCGKAFKSSQLFLHLRIHTGEKPYECKE  
CGKAFKQHSRLIQHQRMHTGEKPYECKQCGKAFNSASTLTNNHRIHAGEKLYECEECRKA  
FIQSSELIHQHQRIHTDEKPYECNECGKAFNKGSNLTRHQRIHTGEKPYDCKECKGAFGSR  
SDLIRHEGIHTG

>sp|Q96EG3|ZN837\_HUMAN Zinc finger protein 837 OS=Homo sapiens GN=ZNF837 PE=1 SV=2

MEAPAKKAGQGGLPKADAQGASGAREKRPEEPRLPEEDRAGSRPTQKGDRLGAAGGRTP  
PGGSGRGC SLGVSPGPGTRHSAGTRPLVREPCGPTSSQNPELVIPEGLQAREGPCRSPAR  
GGDCSRNSCLAWHRGAPAGETPPVCDPCPERIQNHPRQLCEVHTDCWPCQPGTGAPTCP  
RTPKPTSRGRNPLVEQPRACACGEAFARALRIPQERLQATEEPRPCARCGKFRPNQQQ  
QAGKSPVPCPEGQTSRPRPIVPDPPAQLYACDECGKAFTRTSSLLQHRIHTGERPYE  
CAECGKAFVRCGLYRHKTHSAERHRRGPVLARRAFRLGCPPCGDYERSPRRGSAGE  
KPYECADCAKAFGLFSLVVEHRRVHTGEKPYACECGKAFNQRSNLSRHQRTHSSAKPYA  
CPLCEKAFKGRGLVQHQRAHTGERPYGCSECGKTFRGCSSELQHERLHSGEKPYICRDC  
GKAFVRNCSLVRHLRHTGERPYACGDCGRAFSQRSNLNEHRKRHGGRAAP

>sp|A6NHJ4|ZN860\_HUMAN Zinc finger protein 860 OS=Homo sapiens GN=ZNF860 PE=2 SV=3

MLREEAAQKRKEKEPGMALPQGHLTFRDVAIEFSLEEWKCLDPTQRALYRAMMLENYRNL  
HSVDISSKMMKKFSSTAQGNTEVDGTGLERHESHIGDFCFQKIGKDIHDFEFQWQEDK  
RNSHEATMTQIKKLTGSTDRYDRRHGPNKPIKDQLGLSFHSHLPELHIFQTKGKVGNGVE  
KSINDASSVLTSQRISRPKIHISNNYENNFHSSLLTLKQEVHIREKSFQCNESGKAFN  
CSSLLRKHQI IYLGKQYKCDVCGKVFNQKRYLACHHRCHTGEKPYKNECGKVFNQSN  
LASHHRLHTGEKPYKCECDKVFSRKSNLERHRRHTGEKPYKCKVCEKAFRRDShLTQH  
TRIHTGEKPYKNECGKAFSGQSTLIHHQAIHGIGKLYCNDCHKVFSNATTIANHWRIH  
NEERSYKCNKCGFFRRRSYL VVHWRTHTGEKPYKNECGKTFHHNSALVIHKAHTGEK  
PYKNECGKTFRHNSALVIHKAHTGEKPYKNECGKVFNQATLARHHRLHTGEKPYK  
EECDTVFSRKSHEHETHKRIHTGEKPYKCDDFDEAFSQASSYAKQRRIMGEKHHKCDDCG  
KAFTSHSHRIRHQRIHTGQKSYKCHKRGKVS

>sp|Q8NOV1|ZNAS1\_HUMAN Putative uncharacterized protein ZNF295-AS1 OS=Homo sapiens

GN=ZNF295-AS1 PE=5 SV=2

MKDKMWCEDTAQPHRRLPAPPSSSPTVVFQSHRLLAPPSSSWTLWVAPRCGCCSPLCP  
KRVCASLCRVLA VTWSLTKLPFLSPILLSRPGWLPQPSSPGPACAEPSSQEGGDTDLRS  
YGCFCGWAWPTLSRP

>sp|P17022|ZNF18\_HUMAN Zinc finger protein 18 OS=Homo sapiens GN=ZNF18 PE=1 SV=2

MPVDLGQALGLPSLAKAEDSQFSESDAALQEELSSPETARQLFRQFRYQVMSGPHETLK  
QLRKLCFQWLQPEVHTKEQILEILMLEQFLTILPGEIQMWVRKQCPGSGEEAVTLVESLK  
GDPQRLWQWISIQVLGQDILSEKMESPSCQVGEVEPHLEVVPQELGLENSSSSGPGELLSH  
IVKEESDTEAELALAASQPARLEERLIRDQDLGASLLPAAPQEQRQLDSTQKEQYWDLM  
LETYGMVSGAGISHPKSDLTNSIEFGEELAGIYLHVNEKIPRPTCIGDRQENDKENLNL  
ENHRDQELLHASCQASGEVPSQASLRGFFTEDEPGCFGEGENLPEALQNIQDEGTGEQLS  
PQERISEKQLGQHLNPNHSGEMSTMWLEEKRETSQKGQPRAPMAQKLPTCRECGKTFYRN  
SQLIFHQRTHTGETYFQCTICKKAFLRSSDFVKHQRTHHTGEKPKCDYCGKGFSDFSGLR  
HHEKIHTGEKPYKCPICEKSFIQRSNFRHQRVHTGEKPYKCSHCGKSFSWSSSLDKHQ

SHLGKKPFQ

>sp|P17023|ZNF19\_HUMAN Zinc finger protein 19 OS=Homo sapiens GN=ZNF19 PE=2 SV=4  
MAAMPLKAQYQEMVTFEDVAVHFTKTEWTGLSPAQRALYRSVMLENFGNLTALGYVPVKP  
ALISLLERGDMAWGLEAQDDPPAERTKNVCKDVETNIDSESTLIQGISSEERDGMMSHGQL  
KSVPRQRTDFPETRNVEKHQDIPTVKNIQGKVPRIPCARKPFICECGKSFSYFSYYARHQ  
RIHTGEKPFECSECGKAFNGNSSLIRHQRIHTGERPYQCEECGRAFNDNANLIRHQRIHS  
GDRPYCYCTECGNSFTSSSEFVIHQRIHTGEKPYECNECGKAFVGNPPLRHQKIHTGEKPY  
YECNECGKSFGRTSHLSQHQRIHTGEKPYSCVKCGQAFNFHTKLTRHQRIHSEEKPFDCV  
DCGKAFAEQELKRHLRIHTQESSYVCECGKALTSKRNLHQHQRIHTGEKPYECSKYEK  
AFGTSSQLGHLEHVYSGEKPVLDICRFGLEPFFTPFYW

>sp|P17031|ZNF26\_HUMAN Zinc finger protein 26 OS=Homo sapiens GN=ZNF26 PE=1 SV=3  
MATSFRTASCWGLLSFKDISMEFTWDEWQLLDSTQKYLVRDVIENYHNLSVGYHGTKP  
DLIFKLEQGEPWIINAKISRQSCPDGWEEWYQNNQDELESIERSYACSVLGRNLNSKTH  
DSSRQRLYNTRGKSLTQNSAPSRSYLRKNPDKFHGYEEPYFLKHQRAHSIEKNVCVCECG  
KAFRCKSQLIVHLRIHTGERPYECSKCERAFSAKSNLNAHQRVHTGEKPYSCSECEKVFS  
FRSQLIVHQEIHTGGKPYGCSECGKAYSWKSQLLLHQRSHTGVKPYECSECGKAFSLKSP  
FVVHQRTHTGVKPHKCECGKAFRSKSYLLVHIRMHTGEKPYQSCDCGAFNMKTQLIVH  
QGVHTGNNPYQCGECGKAFGKEQLTAHLRAHAGEKPYGCSECGKAFSSKSYLVIHRRTH  
TGERPYECSLCERAFCGKSQLI IHQRTHTSTEKPYECNECEKAYPRKASLQIHQKTHSGEK  
PFKCECGKAFTQKSSSLSEHQRVHTGEKPYWCSECGKSFVWNSGLRIHRKTHK

>sp|P17041|ZNF32\_HUMAN Zinc finger protein 32 OS=Homo sapiens GN=ZNF32 PE=1 SV=2  
MFGFPTATLLDCHGRYAQNVAFFNVMTAEHHKYDHSEATGSSSWDIQNSFRREKLEQKSP  
DSKTLQEDSPGVRQRYECQECCGSFRQKGSLLTHERIHTGQKPFECTHCGKSFRAKGNL  
VTHQRIHTGEKPYQCKECCGSFSQRGSLAVHERLHTGQKPYEACIQRSFRNQSNLAVHR  
RVHSGEKPYRCDQCGKAFSQKGSLLVHIRVHTGLKPYACTQCRKSFHTRGNCILHGKIHT  
GETPYLCGQCGKSFTQRGSLAVHQRSCSQRLTL

>sp|Q02386|ZNF45\_HUMAN Zinc finger protein 45 OS=Homo sapiens GN=ZNF45 PE=2 SV=2  
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REEKLWMMKMATQRDNSSGAKNLKEMETLQEVGLRYPHEELFCSQIWQQITREL IKYQD  
SVVNIQRTGCQLEKRDDLHYKDEGFSNQSSHLQVHRVHTGEKPYKGEHCVKSFWSSSLQ  
INQRAHAGEKPYKCEKCDNAFRFRSSSLQAHQRVHSRAKSYTNDASYSFSQRSHLPHHQR  
VPTGENPYKYEECGRNVGKSSHCQAPLIVHTGEKPYKCEECGVGFSQRSYLQVHLKVHTG  
KKPYKCEECGKSFSWRSRLQAHERIHTGEKPYKCNACGKSFSYSSHLNIHCRIHTGEKPY  
KCEECGKGFVSHLQAHQISHTGEKPYKCEECGKGFCRASNLLDHQRGHTGEKPYQCDA  
CGKGFSSSDFNIFRVHTGEKPYKCEECGKGFSAQNLLAHQRGHTGEKPYKCGTCGKG  
FSRSSDLNVHCRIHTGEKPYKCERCAGKAFSQFSSLQVHQRVHTGEKPYQCAECGKGFVSG  
SQLQAHQRCHTGEKPYQCEECGKGFCRASNFLAHRGVHTGEKPYRCDVCGKRFRQRSYLQ  
AHQRVHTGERPYKCEECGVFSWSSYLQAHQRVHTGEKPYKCEECGKGFWSSSLI IHQR  
VHADDEGDKDFPSSSEDSHRKTR

>sp|Q68EA5|ZNF57\_HUMAN Zinc finger protein 57 OS=Homo sapiens GN=ZNF57 PE=2 SV=3  
MDSVVFEDVAVDFTLEEWALLDSAQRDLVRDVMLETFRNLASVDDGTQFKANGSVSLQDM  
YGQEKSKETIPNFTGNNSCAYTLEKNCEGYGTEDHHKLNLRNHMVDRFCTHNEGNQYGEA  
IHQMPDLTLHKKVSAGEKPYECTKCRTVFTHLSSLKRHVKSHCGRKAPPGECKQACICP  
SHLHSHGRDTEEKPYKCQACGQTFQHPRYLSHHVKTHTAETKYKCEQCRMAFNFGASFT

RHVRTHTKDRPYKCQECGRAFIYPSTFQRHMTTHTGEKPYKCQHCGAFTYPQAFQRHEK  
THTGEKPYECKQCGKTFWSSETLRVHMRHTGDKLYKCEHCGKAFTSSRSFQGLRTHTG  
EKPYECKQCGKAFTWSSTFREHVRIHTQEQLYKCEQCGKAFTSSRSFRGHLRTHTGEPY  
ECKQCGKTFWSSSTFREHVRIHTQEQLHKCEHCGKAFTSSRAFQGLRMHTGEKPYECKQ  
CGKTFWSSSTLHNHVRMHTGEKPHKCKQCGMSFKWHSSFRNHLRMHTGQKSHECQSYSKA  
FSCQVILSKTSESTH

>sp|Q9UC07|ZNF69\_HUMAN Zinc finger protein 69 OS=Homo sapiens GN=ZNF69 PE=1 SV=2

MPCCSHRRCREDPGTSESQEMDPVAFDDVAVNFTQEEWALLDISQRKLYKEVMLETFRNL  
TSVGKSWKDQNIIEYEQNPRRNFRSLIEKKVNEIKDDSHCGETFTQVPDDRNFQEKKAS  
PEIKSCDSFVCGEVLGNSSFMNIRGDIGHKAYEYQEYGPCKCQPKKAFRYHPSFR  
TPQRDHTGEKPYACEKCGKTFISHSSIQRHVVMHSGDGPYCKFCGKAFHCLSLYLIHER  
IHTGEKPYECKQCGKSFSYSATLRIHERHTHTGEKPYECQCGKAFHSPRCYRRHERIHTG  
EKAYQCKEKGKAFTCPQYVRIHERTHSRKKPYECTQCGKALSSLTSFQTHIRMHSGERPY  
ECKICGKGFCNSANSFQRHEKTHSGEKPYCKQCGKAFIHSSSLRYHERIHTGEKPYECKQ  
CGKAFRSSSHLQLHGRTHHTGEKPYECQCGKAFRSMKNLQSHERTQTHVRIHSGERPYKC  
KLCGKGFYCPKSLQRHEKTHHTGEKLYECKQCGEAFSSSSSFYHERHTHTGEKPYCKQCG  
KAFRAASVLRMHGRTHPEDKPYECKQ

>sp|Q16587|ZNF74\_HUMAN Zinc finger protein 74 OS=Homo sapiens GN=ZNF74 PE=2 SV=3

MEIPAPEPEKTALSSQDPALSLKENLEDISGWLPEARSKEVSFQDVAVDFTQEEWGQL  
DSPQRALYRDVMLENYQNLALGPPLHKPDVISHLERGEEPWSMQREVPRGPCPEWELKA  
VPSQQQGICKEEPAQEPIMERPLGGAQAWGRQAGALQRSQAAPWAPAMVWDVPVEEFP  
LRCPLFAQQRVPEGGPLLDTRKNVQATEGRTKAPARLCAGENASTPSEPEKFPQVRRQRG  
AGAGEGEFVCGECGKAFRQSSSLTHRRWHSREKAYKCDECGKAFTWSTNLLHRRHTG  
EKPFFCGECGKAFCSSSLNVHQRIHTGERPYKCSACEKAFSCSSLLSMHLRVHTGEKPY  
RCGECGKAQNRTHLTHRRHTHTGEKPYQCGSCGKAFTCHSSLTVHEKIHSGDKPFKCD  
CEKAFNSRSRLTHQRTHTGEKPFKADCGKGFCHAYLLVHRRHISGEKPFKNECGKA  
FSSHAYLIVHRRHTHTGEKPFDCSQCWKAFCSSSLIVHQRIHTGEKPYKCECGRAFSQN  
HCLIKHQKIHSGEKSFKCEKCGEMFNWSSSLTEHQRLHSEKPLAIQFNKHLSTYYVPG  
SLLGAGDAGLRDVPIDALDVAKLLCVVPPRAGRNFSLGSKPRN

>sp|P51522|ZNF83\_HUMAN Zinc finger protein 83 OS=Homo sapiens GN=ZNF83 PE=2 SV=3

MHGRKDDAQKQPVKNQLGLNPQSHLPELQLFQAEGKIYKYDHMEKSVNSSSLVSPQRIS  
STVKTHISHTYECNFVDSLFTQKEKANIGTEHYKCSERGKAFHQGLHFTIHQIHTKETQ  
FKCDICGKIFNKKSNLASHQRIHTGEKPYKNECGKVFNHMSHLAQHRRHTHTGEKPYCN  
ECGKVFNQISHLAHQRIHTGEKPYKNECGKVFHQISHLAQHRTHTHTGEKPYECNKCGK  
VFSRNSYLVQHLIHTHTGEKPYRCNVCGKVFHHISHLAHQRIHTHTGEKPYKNECGKVFH  
KSSLVNHWRIHTHTGEKPYKNECGKVFHSHKSSLVNHWRIHTHTGEKPYKNECGKVFSRNSYL  
AQHLIHTHAGEKPYKDECDKAFSQNSHLVQHRRHTHTHTGEKPYKDECGKVFSQNSYLAYHW  
RIHTHTGEKAYKNECGKVFLNSSLAHHRKIHTHTGEKPFKNECGKAFSMRSSLTNHHAHT  
GEKHFKNECGKLFRDNSYLVHRQRFHAGKKSNTCN

>sp|Q03936|ZNF92\_HUMAN Zinc finger protein 92 OS=Homo sapiens GN=ZNF92 PE=2 SV=2

MGPLTFRDVKIEFSLEEWQCLDTAQRNLYRDVMLENYRNLVFLGIAVSKPDLITWLEQGK  
EPWNLKRHEMVDKTPVMCSHFAQDVWPEHSIKDSFQKVILRTYGYKHENLQLRKDHKSV  
DACKVYKGGYNGLNQCLTTTDSKIFQCDKYVKVFHKKFPNVNRNKIRHTGKKPFKCKNRGK  
SFCMLSQLTQHKKIHTREYSYKCEECGKAFNWSSTLTKHKIHTHTGEKPYKCEECGKAFNR



SSNLTKHKIIHTGEKPYKCEECGKAFNRSSSTLTCHKRIHTEEKPYKCEECGKAFNQFSIL  
NKHKRIHMEDKPYKCEECGKAFRVFSILKKHKIIHTGEKPYKCEECGKAFNQFSNLTKHK  
IIHTGEKPYKCEECGKAFNQSSSTLTCHKRIHTGEKPYKCEECGKAFKQSSTLTEHKIIHT  
GEKPYKCEKCGAFWSAFTKHKRNHMDKPYKCEECGKAFSVFSTLTCHKIIHTREKP  
YKCEECGKAFNQSSIFTKHKIIHTEGKSYKCEKCGNAFNQSSNLTARKIIYTGEKPYKYE  
ECDKAFNKFSTLITHQIIYTGEKPCHECGRAFNNSSNYTKEKLQT

>sp|A6NK75|ZNF98\_HUMAN Zinc finger protein 98 OS=Homo sapiens GN=ZNF98 PE=2 SV=4

MPGPLGSLEMGVLTFRDVALEFSLEEWQCLDTAQQLYRNVMLENYRNLVFVGIAASKPD  
LITCLEQGKEPWNVVRHEMVTPEPPVVSFYAQDLWPKQGKKNYFQKVILRTYKCKGREN  
QLRKYCKSMDECKVHKECYNGLNQCLTTTQNKIFQYDKYVKVFHKFSNSNRHKIGHTGKK  
SFKCKECEKSFCMLSHLAQHRIHSGEKPYKCEKCGKAYNEASNLSTHKRIHTGKKPYKC  
EECGKAFNRLSHLTTHKIIHTGKKPYKCEECGKAFNQSANLTTHKRIHTGEKPYKCEECG  
RAFSQSSTLTAKKIIHAGEKPYKCEECGKAQSSTLTTHKIIHTGEKPYKCEECGKAQS  
RLSHLTTHKRIHSGEKPYKCEECGKAFKQSSTLTTHKRIHAGEKPYKCEVCSKAFSRFSH  
LTTHKRIHTGEKPYKCEECGKAFNLSSQLTTHKIIHTGEKPYKCEECGKAFNQSSSTLSKH  
KVIHTGEKPYKCEECGKAFNQSSHLTTHKMIHTGEKPYKCEECGKAFNNSSILNRHKMIH  
TGEKLYKPESCNNACDNIKISKYKRNCAAGEK

>sp|Q9UHR6|ZNHI2\_HUMAN Zinc finger HIT domain-containing protein 2 OS=Homo sapiens  
GN=ZNHI2 PE=1 SV=1

MEPAGPCGFCPAGEVQPARYTCPRCNAPYCSLRCYRTHGTCAENFYRDQVLGELRGCSAP  
PSRLASALRRLRQRETEDEPGEAGLSSGPAPGGLSGLWERLAPGEKAAFERLLSRGEAG  
RLLPWRPWWNRGAGPQLLEELDNAPGSDAAELELAPARTPPDSVKDASAAEPAAAEV  
LGDVPGACTPVVPTRIPIVSLSRGPVSPLVRFQLPNVLFAYAHTLALYHGDDALLSDF  
CATLLGVSGALGAQQVFASAEALQAAHVLEAGEHPPGLGTRGAMHEVARILLGEGPT  
NQKGYTLAALGDLAQLGRARKQAVAREERDHLRARKKCQFLAWTNENEAALTPLALD  
CARAHQAHAVVAEEVAALTGELERLWGGPVPPAPRTLIEELPS

>sp|Q6X784|ZBP2\_HUMAN Zona pellucida-binding protein 2 OS=Homo sapiens GN=ZBP2 PE=2  
SV=1

MMRTCVLSSAVLWCLTGVCPRFTLFNKKGFYIGKTGQPDKIYVELHQNSPVLICMDFKL  
SKKEIVDPTYLWIGPNEKTLTGNNRINITETGQLMVKDFLEPLSGLYTCTLSYKTVKAET  
QEEKTVKKRYDFMVIFAYREPDISYQMAVRFTTRSCIGRYNDVFFRVLKKILDSLISDLSC  
HVIEPSYKCHSVEIPEHGLIHLELFIQVNPFPAGWGACNGSVDCEDTNHNILQARDR  
IEDFFRSQAYIFYHNFNKTLPAMHFVDHSLQVVRLDSCRPGFGKNERLHNSCASCVVCS  
PATFSPDVNVTCQTCVSVLTYGAKSCPQTSNKNQQYED

>sp|POCG00|ZSA5D\_HUMAN Putative zinc finger and SCAN domain-containing protein 5D OS=Homo  
sapiens GN=ZSCAN5D PE=5 SV=1

MGQCRNWKWGLESFDFSINRRSSAPGQLESASQMRESWRHKAGRRMFSCPEESDPIQALR  
KLTELCHLWLRPDLHTKEQILDMLVMEQFMISMPQELQVLVKVNGVQSCKDLEDLLRNNR  
RPKKWSVVNFLGKEYLMQESDVEMAEIPASVRDDPRGVSSQRASSVNEMRPGEQASQEL  
QTLPRVPALSRRQEEDFLLPETVMKSAPKALRPKPTLEKDLNVDREENTGLTSPEPQLP  
NGPSVVGAKGKPKKRASVENVDADTPSACVVEREASTHSGSRGDALNLRCPKRSKPDA  
TSISQEGPQGATPVGNSESPGKPEINSVSPGPAGAVSHPNGQEAKELLPFACGVCNKR  
FTCNKLAIHMSHTGERPFQCNFCERCFTQLSDLRVHQRHTGEKPYTCDICHKRFNRM  
FSLKCHKRSHTGEKPYCKDCNQVFTYRKNLNEHKLHSGEKPYKCPKCLRAFRRPETLK

YHQKTHQETTAPRECEG

>sp|Q9H7M6|ZSWM4\_HUMAN Zinc finger SWIM domain-containing protein 4 OS=Homo sapiens  
GN=ZSWIM4 PE=2 SV=3

MEPPAAKRSRGCPAGPEERDAGAGAARGGRPEALLDLSAKRVAESWAFEQVEERFSRVP  
EPVQKRIVFWSFPRSEREICMYSSLGYPPPEGEHDARVPFTRGLHLLQSGAVDRVLQVGF  
HLSGNIREPGSPGEPERLYHVSISFDRCKITSVSCGCDNRDLFYCAHVVALSLYRIRHAH  
QVELRLPISETLSQMNRDQLQKFVQYLISAHHTEVLPQAQLADEILLGSEINLVNGAP  
DPTAGAGIEDANCWHLDEEQIQEQVKQLLSNGGYYGASQQLRSMFSKVREMLMRDSNGA  
RMLILMTEQFLQDTRLALWRQQAGAMTDKCRQLWDELGALWVCVVLSPHCKPEERAGWLQ  
LLSRWDKLDVCPLEEGNYSFDGPSLQPTMAPAPPELLQKGSTCITNTEGWVGHPLDPIGCL  
CRALLEACRLEEETLTLYPDSGPEKRKVAYQHVPVPGSPGESYLVLALEVALLGLGQQRA  
LPEGLYAQDKVVRNEEQLLALLEEVELDERLVQVLRKQAGLLLEGGPFSGFGEVLFRESV  
PMHTCARYLFTALLPHDPDLAYRLALRAMRLPILETAFPAGEPHPSPLDSIMSNRFPRWF  
ILGHLETRQCELASTMLTAAKGDPKWLHTVLGSIQQNIHSPALLFKLAQDACKTATPVSA  
PPDTTLLGIALEGLQVMRMTLVNMTWRRREMVRWLVSCATEIGPQALMNIMQNWYSLFT  
PVEAATIVAVTGTTHATLLRLQLDTSRREELWACARTLALQCAMKDPQNCALPALTCEK  
NHSFAEAAQIVLDAAGGLGHAHLFTVARYMEHRGLPLRAYKLATLALAQLSIAFNQDS  
HPAVNDVLWACSLSHSLGRHELSAIVPLIIRS IHCAPMLS DILRRWTL SAPGLGPLGARR  
AAKPLGADRAPLCQLLDAAVTAYITTSRSLTHISPRHYGDFIEFLGKARETFLLAPDGH  
LQFSQFLENLKQTYKGKKKLMLLVRRERFG

>sp|A6NP61|ZAR1L\_HUMAN ZAR1-like protein OS=Homo sapiens GN=ZAR1L PE=2 SV=2

MERFVRVPYGLYQGYGSTVPLGQPLSGHKQPDWRQNMGPPTFLARPGLLV PANAPDYCI  
DPYKRAQLKAILSQMNPSPRLCKPNTKEVGVQVSPRVDKAVQCSLGPRTLSSCSPWDG  
RDPQEPLPACGVTSPATGRRGLIRLRDGD EASKALPGPAEASQPQPPSRSGADRQEE  
PGQLEESGEKDAPCPQETKSKQVPGDAASEPLRRPNFQFLEPKYGYFHCKDCKTRWESAY  
VWCISGTNKVYFKQLCCKCQKSFNPYRVEAIQCQTCSKSHCSCPQKKRHIDLRPHRQEL  
CGRCKDKRFSCGNIYSFKYVM

>sp|Q9BTP6|ZBED2\_HUMAN Zinc finger BED domain-containing protein 2 OS=Homo sapiens  
GN=ZBED2 PE=1 SV=2

MMRREDEEEEGTMMKAKGDLEMKEEEEISETGELVGPFVSAMPTPMPHNKGTRFSEAW EY  
FHLAPARAGHHPNQYATCRLCGRQVSRGPGVNVGTTALWKHLKSMHREELEKSGHGQAGQ  
RQDPRPHGPQLPTGIEGNWGRLLQVGTMALWASQREKEVLRRERAVEWRERA VEKRERA  
LEEVEAILEMKWKVRAEKEACQREKELPAAVHPFHFV

>sp|O95625|ZBT11\_HUMAN Zinc finger and BTB domain-containing protein 11 OS=Homo sapiens  
GN=ZBTB11 PE=1 SV=2

MSSEESYRAILRYLTNEREPYAPGTEGNVKKIRKAAACYVVRGGTLYYQRRQRHRKTFA  
ELEVVLQPERRRDLIEAAHLPGGTHHTRHQTWHYLSKTYWWRGILKQVKDYIKQCSKCQ  
EKLDRSRPISDVSEMLEELGLDLESGEESNESEDDLSNFTSSPTTASKPAKKKPVSKHEL  
VFVDTKGVVKRSSPKHCQAVLKQLNEQRLSNQFCDVTLLIEGEEYKAHKSVL SANSEYFR  
DLFIEKGAVSSHEAVVDLSGFCKASFLPLLEFAYTSVLSFDFCSMADVAILARHLFMSEV  
LEICESVHKLMEEKQLTVYKKGEVQTVASTQDLRVQNGGTAPPVASSEGTTTSLPTELGD  
CEIVLLVNGELPEAEQNGEVGRQPEPQVSSEAESALSSVGCIADSHPEMESVDLITKNNQ  
TELETSNNRENNTVSNIHPKLSKENVISSPEDSGMGNDISAEDICAEDIPKHRQKVDQP  
LKDQENLVASTAKTDFGPDDDTYRSRLRQRSVNEGAYIRLHKGMEKKLQKRKAVPKSAVQ

QVAQKLVRGKKMKQPKRDAKENTEEASHKCGECGMVFQRRYALIMHKLKHERARDYKCP  
LCKKQFQYSASLRAHLIRHTRKDAPSSSSSNTSNEASGTSSSEKGRTKREFICSICGRTL  
PKLYSLRIHMLKHTGVKPHACQVCGKTFIYKHGLKLHQSLHQSQKQFQCELCVKSFVTKR  
SLQEHMSIHTGESKYLCSVCGKSFHRGSLSKHFKKHQPKPEVRGYHCTQCEKSFFEARD  
LRQHMNKH LGVKPFQCFCDKCYSWKKDWYSHVKSHSVTEPYRCNICGKEFYEKALFRRH  
VKKATHGKKGRAKQNLERVCEKCGRKFTQLREYRRHMNNHEGVKPFEC LTCGVAWADARS  
LKRHVTRHTGERPYVCPVCSEAYIDARTLRKHMTKFHRDYPCKIMLEKDTLQFHNQGTQ  
VAHAVSILTAGMQEQESSGPQELETVVVTGETMEALEAVAATEEYPSVSTLSDQSIMQVV  
NYVLAQQQGQKLSEVAEAIQTVKVEVAHISGGE

>sp|Q13105|ZBT17\_HUMAN Zinc finger and BTB domain-containing protein 17 OS=Homo sapiens  
GN=ZBTB17 PE=1 SV=3

MDFPQHSQHVLQNLNQRQLGLLCDCTFVVDGVHFKAHKAVLAACSEYFKMLFVDQKDVV  
HLDISNAAGLGQVLEFMYTAKLSLSPENVDDVLAVATFLQMQDIITACHALKSLAEPATS  
PGGNAEALATEGGDKRAKEEKVATSTLSRLEQAGRSTPIGPSRDLKEERGGQAQSAASGA  
EQTEKADAPREPPVELKPDPTSGMAAAEAEALSESSEQEMEVEPARKGEEQKEQEEQ  
EEEGAGPAEVKEEGSQLENGEAPEENENEESAGTDSGQELGSEARGLRSGTYGDRTESKA  
YGSVIHKCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACKAHEKTHSPLK  
PYGCEECKGSYRLISLLNLHKKRHSGEARYRCEDCGKLFTTSGNLKRHQLVHSGEKPYQC  
DYCGRSFSDP TSKMRHLETHD TDEHKCPHCDKKFNQVGNLKAHLKIH IADGPLKCRECG  
KQFTTSGNLKRHLRIHSGEKPYVCIHCQRQFADPGALQRHVRIHTGEKPCQVMCGKAFT  
QASSLIAHVRQHTGEKPYVCERCGRFVQSSQLANHIRHHDNIRPHKCSVCSKAFVNVGD  
LSKHII IHTGEKPYLCDKCGRGFNVDNLRSHVKT VHQGKAGIKILEPEGSEVSVTVTD  
DMVTLATEALAATAVTQLTVVPVGA AVTADETEVLKAEISKAVKQVQEEDPNTHILYACD  
SCGDKFLDANSLAQHVRIHTAQALVMFQTDADFYQQYGGTWPAGQVLQAGELVFRPRD  
GAEGQPALAETSPTAPECPPPAE

>sp|Q9ULJ3|ZBT21\_HUMAN Zinc finger and BTB domain-containing protein 21 OS=Homo sapiens  
GN=ZBTB21 PE=1 SV=2

MEGLLHYINPAHAISLLSALNEERLKGQLCDVLLIVGDQKFRAHKNVLAASSEYFQSLFT  
NKENESQTVFQLDFCEPD AFDNVLNYIYSSSLFVEKSSLA AVQELGYSLGISFLTNI VSK  
TPQAPFPTCPNRKKVFVEDDENSSQKRSVIVCQSRNEAQGKT VSNQNPDVSHTSRPSPSI  
AVKANTNKPHVPKPIEPLHNLSLTEKSWPKDSSVYAKSLEHSGSLDDPNRISLVKRNAV  
LPSKPLQDREAMDDKPGVSGQLPKGKALELALKRPRPPVLSVCSSSETPYLLKETNKGNG  
QGEDRNLLYYSKLGLVIPSSGSGSGNQSIDRSGPLVKSLLRRSLMDSQVPVYSPSIDLK  
SSQGSSSVSSDAPGNVLCALSQKSSLKDCSEKTALDDRPQVLQPHRLRSFSASQSTDREG  
ASPVTEVRIKTEPSSPLSDPSDIIRVTVGDAATTAASSSSVTRDLSLKTEDDQKMSRL  
PAKRRFQADRRLPFKKLVNEHGSPVSEDNFEEGSSPTLLDADF PDSDLNKDEFGELEGT  
RPNKKFKCKHCLKIFRSTAGLHRHVNMHNPEKPYACDICHKRFHTNFKVWTHCQTQHGI  
VKNPSPASSSHAVLDEKFQRKLIDIVREREIKKALIIKLRRGKPGFQGGSSSQAAQVIKR  
NLRRAKGAYICTYCGKAYRFLSQFKQHIKMHPGEKPLGVNKVAKPKEHAPLASPVENKE  
VYQCRLCNAKLSSLEQGSHERLCRNAAVCPYCSLRFFSPELKQEHESKCEYKKLTCLEC  
MRTFKSSFSIWRHQVEVHNQNNMPTENFSLPVL DHNGDVTGSSRPQSQPEPNKVNHI VT  
TKDDNVFSDSSEQVNFSEDSSCLPEDLSLSKQLKIQVKEEPVEEAE EEAPEASTAPKEA  
GPSKEASLWPCEKCGKMFTVHKQLERHQELLC SVKPFICHVCNKAFRTNFR LWSHFQSHM  
SQASEESA HKESEVCPVPTNSPSPPLPPPPPLPKIQPLEPDSPTGLSENPTPATEKLFV

PQESDTLFYHAPPLSAITFKRQFMCKLCHRTFKTAFSLWSHEQTHN

>sp|Q5SVQ8|ZBT41\_HUMAN Zinc finger and BTB domain-containing protein 41 OS=Homo sapiens  
GN=ZBTB41 PE=1 SV=1

MKKRRKVTSNLEKIHLYGKHDSSEGNVAVECDQVITYTHSAGRPTPEALHCYQELPPSPDQ  
RKLLSSLQYNKNLLKYLNDDRQKQPSFCDLLIIVEGKEFSAHKVVAVGSSYFHACLSKN  
PSTDVVTLDHVTHSVFQHLLEFLYTSEFFVYKYEIPLVLEAAKFLDIIDAVKLLNNENVA  
PFHSELTEKSSPEETLNELTGRLSNNHQCKFCSRHFYKKSLENHLAKTHRSLLGKKHG  
LKMLERSFSARRSKRNRKCPVKFDDTSDDQESGDGSDNLNQNENFDKEKSDRNDSEDPGS  
EYNAEEDELEEMSDIIEEQSEKDHNDAAEEPEAGDSVGNVHEGLTPVVIQNSNKKI  
LQCPKCDKTFDRIGKYESHTRVHTGEKPFECDICRYSTKSNLTVHRKKHSNETEFHKK  
EHKCPYCNKLHASKKTLAKHVKRFPENAQEFISIKKTKSESWKCDICKKSFTRRPHLEE  
HMILHSQDKPFKCTYCEEHFKSFRFARLKHQEKFHLGPFPCDICGRQFNDTGNLKRHIET  
HGGKRKWTFCICGKSVRERTTLKEHLRIHSGEKPHLCSICGQSFRHGSSYRLHLRVHHDD  
KRYECDECGKTFIRHDHLTKHKKIHSGEKAHQCECGKCFGRDHLTVHYKSVHLGEKVW  
QKYKATFHQCDVCKKIFKGKSSLEMHFRTHSGEKPYKCQICNQSFRIKKTLTKHLVIHSD  
ARPFNCQHCNATFKRKDKLYHIDHVHEIKSPDDPLSTSEEKLVSLPVEYSSDDKIFQTE  
TKQYMDQPKVYQSEAKTMLQNVSAEVCVPVTLVPVQMPDTPSDLVRHTTLPSSSHEILS  
PQPQSTDYPRAADLAFLEKYTLTPQANIVHPVRPEQMLDPREQSYLGTLLGLDSTTGVSQ  
NISTNEHHS

>sp|O43298|ZBT43\_HUMAN Zinc finger and BTB domain-containing protein 43 OS=Homo sapiens  
GN=ZBTB43 PE=1 SV=1

MEPGTNSFRVEFPDFSSTILQKLNQQRQQGQLCDVSIVVQGHIFRAHKAVLAASSPYFCD  
QVLLKNSRRIVLPDVMNPRVFENILLSSYTGRVMPAPEIVSYLTAASFLQMWHVVDKCT  
EVLEGNPVLCQKLNHGSQSPSSSYNGLVESFELGSGGHTDFPKAQELRDGENEEES  
TKDELSSQLTEHEYLPSSNSTEHDRLSTEMASQDGEEGASDSAEFHYTRPMYSKPSIMAH  
KRWIHVKPERLEQACEGMDVHATYDEHQVTESINTVQTEHTVQPSGVEEDFHIGEKKVEA  
EFDEQADESNYDEQVDFYGSMEEFSGERSDGNLIGHRQEALAAGYSENIEMVTGIKEE  
ASHLGFSATDKLYPCQCGKSFTHKSQRDRHMSMHLGLRPYCGVCGKKFKMKHHLVGHMK  
IHTGIKPYECNICAKRFMWRDSFHRHVTSTCKSYEAAKAEQNTTEAN

>sp|Q5TFG8|ZC21B\_HUMAN Zinc finger C2HC domain-containing protein 1B OS=Homo sapiens  
GN=ZC2HC1B PE=2 SV=2

MAGAEPFLADGNQELFPCEVCGRFAADVLERHGPICKKLFNRKRKPFSSLKQRLQGTDI  
PTVKKTPQSKSPPVRKSNWRQQHEDFINAIRSAKQCMLAIKEGRPLPPPPPSLNPDIQ  
RPYCMRRFNESAERHTNFCKDQSSRRVFNPQAATAKLASRAQGRAQMGPKEPTVTSV  
GALLQNRVLVATNEVPTKSLAMDPASGAKLRQGFSKSSKKD

>sp|Q9UPT8|ZC3H4\_HUMAN Zinc finger CCCH domain-containing protein 4 OS=Homo sapiens  
GN=ZC3H4 PE=1 SV=3

MEAAPGTPPPPPSPPPPSPPPSPPPPCSPDARPATPHLLHHRLPLPDDREDGELE  
EGELEDGAEETQDTSGGPERSRKEKGEKHHSDSDEEKSHRRLKRKRKKEREKEKRRSKK  
RRKSKHKRHASSDDFSDFSDDSDFSPEKGHRKYREYSPPYAPSHQYPPSHATPLPKK  
AYSKMDSKSYGMYEDYENEQYGEYEGDEEDMGKEDYDDFTKELNQYRRAKEGSSRGRGS  
RGRGRGYRGRSGRGRGMGRSGRGRGSMGGDHPDEEDFYEEEMDYGESEEPMGD  
DDYDEYSKELNQYRRSKDSRGRGLSRGRGRSGRGRGKMGGRGRGRGSGRGMNKGGMND  
EDFYDEDMGDDGGGSYRSRDHDKPHQQSDKKGKVICYFVEGRCTWGDHCNFSHDIELPK

KRELCKFYITGFCARAENCPYMHGDFPCKLYHTTGNCINGDDCMFSDPLTEETRELLDK  
MLADDAEAGAEDGEKEVEELKKQGINPLKPPPGVGLLPTPPRPPGPQAPTSPNGRPMQGG  
PPPPPPPPPPPPGPPQMPMPVHEPLSPQQLQQQDMYNKKIPSLFEIVVRPTGQLAEKLG  
RFPGGGGPPGPMGPGPNMGPPGPMGGPMHPDMHPDMHPDMHADMHADMPMGPMNP  
GPPMGPGPPMPYPGDSPHSGMMPPIPPAQNFYENFYQQQEGMEMEPGLLGDAEDYGH  
YEELPGEPGEHLFPEHLEPDSFSEGGPPGRPKPGAGVPDFLPSAQRALYLRIQQKQEE  
EERARRLAESSKQDRENEEGDTGNWYSSDEDEGGSSVTSILKTLRQQTSSRPPASVGELS  
SSGLGDPRLQKGHTGSRLADPRLSRDRLTRHVEASGGSGPGSDPRLARALPTSK  
PEGLHSSPVGPSSSKSGPPPTEEEEGERALREKAVNIPLDPLPGHPLRDPRLQQLQFS  
HIKDVDTLSPKSFARTVLWNPEDLIPLIPKQDAVPPVPAALQSMPTLDPRLHRAATAGP  
PNARQRPGASTDSSTQGANLPDFELLSRILKTVNATGSSAAPGSSDKPSDPVRKAPTDP  
RLQKPTDSTASSRAAKPGPAEAPSPTASPSGDASPPATAPYDPRVLAAGGLGQGGGGGQS  
SVLSGISLYDPRTNAGGKATEPAADTGAQPKAEGNGKSSASKAKEPPFVRKSALEQPE  
TGKAGADGGTPTDRYNSYNRPKAAAAAATATPPPEGAPPQPGVHNLPVPTLFGTVK  
QTPKTGSGSPFAGNSPAREGEQDAASLKDVFKGFDPTASPFQ

>sp|Q9H5U6|ZCHC4\_HUMAN Zinc finger CCHC domain-containing protein 4 OS=Homo sapiens  
GN=ZCHC4 PE=1 SV=3

MAASRNGFEAVEAEGSAGCRGSSGMEVVLPLDPAVPAPLCPHGPTLLFVKVTQGKEETR  
FYACSACRDRKDCNFFQWEDEKLSGARLAAREAHNRRCQPPLSRTQCVERYLKFIELPLT  
QRKFCQTCQQLLLPDWQGHSEHQVLGNVSIQTLRRPSQLLYPLENKKTNAQYLFADRSC  
QFLVDLLSALGFRRVLCVGTPLRHELKLTASGDKSNIKSLLLDIDFRYSQFYMEDSFC  
HYNMFNHHFFDGKTALEVCRAFLQEDKGEGIMVTDPPFGGLVEPLAITFKKLIAMWKEG  
QSQDDSHKELPIFWIFPYFFESRICQFFPSFQMLDYQVDYDNHALYKHGKTGRKQSPVRI  
FTNIPPNKIILPTEEGYRFCSPCQRYVSLNQHCCLNSCTSKDGRKWNHCFLCKKCVKP  
SWIHCSICNHCAVPDHSCEGPKHGCFICGELDHKRSTCPNIATSKRANKAVRKQKQRKSN  
KMKMETTKGQSMNHTSATRRKKRRERAHQYLGS

>sp|Q96MV8|ZDH15\_HUMAN Palmitoyltransferase ZDHHC15 OS=Homo sapiens GN=ZDHHC15 PE=2 SV=1

MRRGWKMALSGGLRCCRRVLSWVPVLVIVLVVLWSYAYVFELCLVTVLSPAEKVIYLIL  
YHAIFVFTWTYKSIFTLPQPNQKFHLSYTDKERYENEERPEVQKQMLVDMAKKLPVY  
TRTSGAVRFCDRCHLIKPDRCCHCSVCAMCVLMDHHCWVNNCIGFSNYKFFLQFLAY  
SVLYCLYIATTVFSYFIKYWRGELPSVRSKFHVLFLLFVACMFFVSLVILFGYHCWLVS  
RNTTLEAFCTPVFTSGPEKNGFNLFIKNIQQVFGDKKKFWLPIGSSPGDGHSFPMRSM  
NESQNPLLANEETWEDNEDDNQDYPEGSSSLAVETET

>sp|Q8WVZ1|ZDH19\_HUMAN Probable palmitoyltransferase ZDHHC19 OS=Homo sapiens GN=ZDHHC19  
PE=2 SV=2

MTLLDATPLVKEPHPLPLVPRPWFPLSLFAAFNVLLVFFSGLFFAFPCRWLAQNGEWA  
FPVITGSLFVLTFPSLVSLNFSDPGILHQSAEQGPLTVHVWVNHGAFRLQWCPKCCFH  
RPPRTYHCPWCNICVEDFDHCKWVNNCIGHRNFRFFMLLVLSLCLYSGAMLVTCILFLV  
RTTHLPFSTDKAIAIVVAAGLLVPLSLLLLIQALSVSADRTYKGCRLQGYNPFD  
QGCASNWYLTICAPLGPKYMAEAVQLQRVVGPDWTSMPNLHPPMSPSALNPPAPTSGSLQ  
SREGTPGAW

>sp|Q8N966|ZDH22\_HUMAN Palmitoyltransferase ZDHHC22 OS=Homo sapiens GN=ZDHHC22 PE=1 SV=2

MLALRLNNAVAPAYFLCISLVTFVLQLFLPLSMREDPAAARLFSPALLHGALFLFLSAN  
ALGNYVLVIQNSPDDLACQASARKTPCSPSTHFCRVCARVTLRHDHHCFFTGNICGS

RNMRNFVLFCLYTSACLYSMVAGVAYISAVLSISFAHPLAFLTLLPTSISQFFSGAVLG  
SEMFVILMLYLWFAIGLACAGFCCHQLLLILRGQTRHQVRKGVAVRARPWKKNLQEVFGK  
RWLLGLLVPMFNVGSESSKQDK

>sp|Q8WTX9|ZDHC1\_HUMAN Probable palmitoyltransferase ZDHC1 OS=Homo sapiens GN=ZDHC1  
PE=2 SV=1

MYKMNICNKPSNKTAPEKSVWTAPAQPSGSPSELQGQSRNRNGSWPPHPLQIVAWLLYL  
FFAIVIGFGLVPLLPHHWVPAGYACMGAIFAGHLVVHLTAVSIDPADANVRDKSYAGPLP  
IFNRSQHAHVIEDLHCNLCNVDVSARSKHCSACNKCVCDFDHHCKWLNNCVGERNYRFL  
HSVASALLGVLLVLVATYVFVEFFVNPMLRTNRHFEVLKNHTDVWFVFLPAAPVETQA  
PAILALAALLILLGLLSTALLGHLLCFHIYLMWHKLTTYEYIVQHRPPQEAQGVHRELES  
CPPKMRPIQEMEFYMRTFRHMRPEPPGQAGPAAVNAKHSRPASPDPTPGRRDCAGPPVQV  
EWDKRLPLPWRSPLLLLAMWGPQAPPCLCRKRGACIKCERLRPRIRRRGLGPPAAAPA  
RRRIPTPALCTPLALPAPTTRRRQSPWTRFQWRRRAWAAPLWPPRGAGADSPWRGRRV  
RPPFS

>sp|Q9UIJ5|ZDHC2\_HUMAN Palmitoyltransferase ZDHC2 OS=Homo sapiens GN=ZDHC2 PE=1 SV=1

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LLFAMFVWSYKTIPTLPMNPSKEFHLSYAEKDLLEREPRGEAHQEVLRRAAKDLPIYTR  
TMSGAIRYCDRCQLIKPDRCHCSVCDKCIKMDHHCWPVNNCVGFSNYKFFLLFLAYSL  
LYCLFIAATDLQYFIKFWTNGLPDTQAKFHIMFLFFAAAMFSVLSLFGYHCWLVSNNK  
STLEAFRSPVFRHGTDKNGFSLGFSKNMRQVFGDEKKYWLLPIFSSLDGCSFPTCLVNQ  
DPEQASTPAGLNSTAKNLENHQFPAKPLRESQSHLLTDSQSWTESSINPGKCKAGMSNPA  
LTMENET

>sp|Q9NP68|ZDHC4\_HUMAN Probable palmitoyltransferase ZDHC4 OS=Homo sapiens GN=ZDHC4  
PE=2 SV=1

MDFLVLFLFYLASVLMGLVLICVCSKTHSLKGLARGGAQIFSCIPECLQRAVHGLLHYL  
FHTRNHTFIVLHLVLQGMVYTEYTWEVFGYCQELELSLHYLLPYLLGVNLFFFTLTG  
TNPGIITKANELLFLHVEYFDEVMPKPNVRCSTCDLRKPARSKHCSVCNWCVHRFDHHCV  
WVNNCIGAWNIRYFLIYVLTLTASAATVAIVSTFLVHLVMSDLYQETYIDDLGHLHVM  
DTVFLIQYFLTFPRIVFMLGFVVLSFLLGGYLLFVLYLAATNQTTNEWYRGDWAQCQR  
CPLVAWPPSAEPQVHRNIHSHGLRSNLQEIFLPAFPCHERKKQE

>sp|Q9Y397|ZDHC9\_HUMAN Palmitoyltransferase ZDHC9 OS=Homo sapiens GN=ZDHC9 PE=1 SV=2

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AVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQQQ  
RPPPRIKNFQINNQIVKLKYCYCTKIFRPPRASHCSICDNCVERFDHHCWPVGNVCVGRN  
YRYFYFLFSLSLTIYVFAFNIYVVALKSLKIGFLETKETPGTVLEVLI CFFTLWSV  
GLTGFTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKNCEVLCGPLPSPVLDRRG  
ILPLEESGSRPPSTQETSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQEA  
EAKE

>sp|P37275|ZEB1\_HUMAN Zinc finger E-box-binding homeobox 1 OS=Homo sapiens GN=ZEB1 PE=1  
SV=2

MADGPRCKRRKQANPRRNNVTNYNTVVETNSDSDDEDKLHIVEEESVTDAAADCEGVPEDD  
LPTDQTVLPGRSSEREGRNAKNCWEDDRKEGQEILGPEAQADEAGCTVKDDECESDAENEQ  
NHDPNVEEFLQQDTAVIFPEAPEEDQRQGTPEASGHDENGTPDAFSQLLTCPYCDRGYK  
RFTSLKEHIKYRHEKNEDNFSCSLCSYTFAYRTQLERHMTSHKSGRDQRHVTQSGCNRKF

KCTECGKAFKYKHHLKEHLRIHSGEKPYPECPNCKKRFSHSGSYSSHISKKCISLIPVNG  
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DGNVIRQVLENNQANLASKEQETINASPIQQGGHVSISAIISLPLVDQDGTKI IINYSLE  
QPSQLQVVPQNLKKENPVATNSCKSEKLPEDLTVKSEKDSFEGGVNDSTCLLCDDCPGD  
INALPELKHYDLKQPTQPPPLPAAEAKEPSSVSSATGDGNLSPSQPPLKNLLSLLKAYY  
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QPQSANANEPQDSTVNLQSPLKMTNSPVLPVGSTTNGSRSTPSPSPLNLSRRNTQGYL  
YTAEGAQEEPQVEPLDLSLPKQQGELLERSTITSVYQNSVYSVQEEPLNLSCAKKEPQKD  
SCVTDSEPVVNIIPPSANPINIAIPTVTAQLPTIVAIADQNSVPCLRALAANKQITILIPQ  
VAYTYSTTVSPAQEPPLKVIQPNGNQDERQDTSSEGVSNVEDQNDSDSTPPKKKMRKTE  
NGMYACDLCDKIFQKSSLLRHKYEHTGKRPHCEGICKKAFKHKHHLIEHMLHSGEKPY  
QCDKCGKRFSHSGSYSQHMHNRYSYCKREAEERDSTEQEEAGPEILSNEHVGARASPSQG  
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>sp|P15822|ZEP1\_HUMAN Zinc finger protein 40 OS=Homo sapiens GN=HIVEP1 PE=1 SV=3

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LPGCSGFTGSLTNLQNQENAKLEQVYNIAVTSSVGLTSPSSRSQVTPQNQQMDSASPLSI  
SPANSTQSPMPPIYNSTHVASVNVQSVEQMCNLLLKDQKPKKQKGYICEYCNRAKPSV  
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KALSIHSDVEDSGESEEAGTDERQHDLGAMELQPVHI IKRMSNAETLLKSSFTPSSPEN  
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VQPLSANMSQGGVSRLETNENSHQKGMNPLEGKQDSHVGTVHAQLQRQQATDYSQEQQG  
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DSPKSYIFKDSFQFDLKPVGRRTSSSSDIPKSPFTPTEKSKQVFLLSVPSLDCLPI TRSN  
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CETCRNRYRKLENFENHKKFYCSELHGPKTKVAMREPEHSPVPGGLQPQILHYRVAGSSG  
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QQHKNIQLQNSHIHLVARGPEQTMDPKLSTIMEQQISSAAQDKIELQRHGTGISVIQHTN  
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ALRGELQESSRKSPPERHVLGQPSRLVRQHNIQVPEILVTEEPDRDLEAQCHDQEKSEKF  
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SLDIEDVSKTEASPKIDFLNKAELMIPAGLNTLNVPGCHREMRRTASEQINCTQTSMEV  
SDLRSKSFDCGSITPPQTTPTELQPPSSPSRVGVTGHVPLLERRRGPLVRQISLNIAPD  
SHLSPVHPTSFQNTALPSVNAVYPYQGPQLTSTSLAEFSANTLHSQTQVKDLQAETSNSSS  
TNVFPVQQLCDINLLNQIHAPPSHQSTQLSLQVSTQGSKPDKNVLSGSSKSEDCFAPKY  
QLHCQVFTSGPSCSSNPVHSLPNQV ISDPVGTDHCVTSATLPTKLIDMSNSHPLLPPEL  
RPLGSQVQKVPSSFMLPIRLQSSVPAYCFATLTSLPQILVTQDLPNQPICQTNHSVVPIS

EEQNSVPTLQKGHNALPNPEKEFLCENVFSEMSQNSSLSESLPITQKISVGRLSPQQES  
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QVCTTEPLDGVMLEKDVFSQPEISNEAVNLTNVLPADNSSTGCSKFVVEPISELQEFEN  
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SLFNIKDTQQLAFPSLKTTTNFTWCYLLRQKSLHLPQKDQKTSAYTDWTVSASNPPLGL  
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KDASEINSEQDKENSLIKSEPRRIKIFDGGYKSNEEYVYVRGRGRGKYICEECGIRCKKP  
SMLKKHIRTHTDVRPYHCTYCNSFKTKGNLTkHMKSKAHSKKCVDLGVSVGLIDEQDTE  
ESDEKQRFsyERSGYDLEESDGPDEDDNENEDDEDSQAESVLSATPSVTASPQHLPsRS  
SLQDPVSTDEDVRITDCFSGVHTDPMdVLPRA LLTRMTVLSTAQSDYNRKTLSPGKARQR  
AARDENDTIPSVDTSRSPCHQMSVDYPESEEILRSSMAGKAVAITQSPSSVRLPAAAAEH  
SPQTAAGMPSVASPHDPQEQKQITLQPTPGLSPHThLFShLPLHSQQSRTPYNMVP  
VGGIHVVPAGLTYSTFVPLQAGPVQLTIPAVSVVHRTLgThRNTVTEVSGTTNPAGVAEL  
SSVPCIPiGQIRVPGLQNLSTPGLQSLPSLsmETVNIvGLANTNMAPQVHPPGLALNAV  
GLQVLTANSSQSSPAPQAHIPGLQILNIALPTLIPSVSQVAVDAQGAPEMPASQSKACE  
TQPKQTSVASANQVSRTESPQGLPTVQRENakKVLNPPAPAGDHARLDGLSKMDTEKAAS  
ANHVKPKPELTSIQGPASTSQPLLKAHSEVFTKPSGQQTLSpDRQVPRPTALPRRQPTV  
HFSDVSSDDDEDRLVIAT

>sp|Q9UJL9|ZF69B\_HUMAN Zinc finger protein ZFP69B OS=Homo sapiens GN=ZFP69B PE=1 SV=2

MLQQLLITLPTeASTWVKLRHPKAATeRVALWEDVTkMFKAeALLSQDADETQGESLESr  
VTLGSLTAESQELLTFKDVSVDFtQEewGQLAPAhRNLYREVmLENYGNLVSvGCQLSKP  
GVISQLEKGEePWLMErDISGVPSSDLKSKTKtKESALQNDISWEElHCGLMMERfTKGS  
SMYSTLGRISKCNKLESQQENQRMGKGQIPLMCKKTfTQERGQESNRfEKrINVKSEVMP  
GPiGLPRKRDRKYDTPGKRsrYNIDLVNHSrSYTKMKTfECNICEKIFKQLIHLtEHMRI  
HTGEKPFrCKECGKAfSQSSSLIPHQRiHTGEKPYeCKECGKTfRHPSsLTQHVRiHTGE  
KPYECrVCEKAfSQSIGLIQHlRThVREKpFTCKDCGAffQIRHLRQHEiIHTGVKPYI  
CNVCSKTfSHStYLTQHQRThTGERPYKCKECGKAfSQRIHLSIHQRVHTGVKPYeCSHC  
GKAfRHdSSfAKHQRIHTGEKPYDCNECGKAfSCSSSLIRHCKThLRNTfSNVv

>sp|Q9P243|ZFAT\_HUMAN Zinc finger protein ZFAT OS=Homo sapiens GN=ZFAT PE=1 SV=2

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SKTGDEFLVMKRKRGRPKGSTKKSStEEELaENIVSPtEDSPLAPEGNSLPSSLECSK  
CCRKFsnTRQLRKHiCiIVLNLGEEEGeAGNESDLELEKKCKEDDREKASKRPRsQKTEK  
VQKISGKEARQLSGAKKPIISVVLTAHEAiPGATKiVPVEAGPPETGATNSETTSADLVP  
RRGYQEYAIQQTpyEQPMKSSRLGPTQLKiFTCEYCNKvFKFKHSLQAHLRIHTNEKPYK  
CPQCSYASAIKANLNVHLRKHTGEKfACDYCSfTCLSKGHLKVHiERVHKKIKQHCRfCK  
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RHMLVHGDKWPfACELCGHGATKYQALELHVRKHfPVYVCAVCRKKfVSSIRLRThiKEV  
HGAAQEALVfTSSINQSfCLLEPGGDIQeALGDQLQLVEEEfALQGVNALKEEACPGDT  
QLEeGRKEPeAPGEMPAPAVHLASPQAESTALPPCELETTVVSSDLHSQEVVSDDfLLK  
NDTSSAEAHAAPEKPPDMQHRSSVQTQGEViTLLLSKAQSAGSDQESHGAQSPLGEGQNM  
AVLSAGDPDPSRCLRSNPAEASDLLPPVAGGGDTITHQPDSCKAAPeHRSGITAFMKVLN  
SLQKKQMNTSLCERIRKvYGDLECEYCGKLFWYQVHFDMHVRThTREHLYYCSQCHYSSI  
TKNCLKRHVIQKHSNILLKCPtDGCdYSTPDKYKLQAHLKVHTALDKRSYSCPvCEKSfS  
EDRLIKSHIKTNHPEVSMSTISEVLGRRVQLKGLIGKRAMKCPYCDfYfMKNGSDLQRHI



WAHEGVKPFKCSLCEYATRKSNNLKAHMNRHSTKTHLCDMCGKKFKSGTKLSHKLLHT  
ADGKQFKCTVCDYTAAQKPQLLRHMEQHVSVFKPFRCAHCHYSCNISGSLKRHYNRKHPNE  
EYANVTGELAAEVLIIQGGGLKCPVCSFVYGTKEFNRHLKNKHGLKVVEIDGDPKWETA  
TEAPEEPSTQYLHITEAEEDVQGTQAAVAALQDLRYTSESGDRLDPTAVNILQQIIELGA  
ETHDATALASVVAMAPGTVTVVKQVTEEEPSSNHTVMIQETVQQASVELAEQHHLVVSSD  
DVEGIETVTVYTQGGGEASEFIVYVQEAMQPVVEEQAVEQPAQEL

>sp|Q9COA1|ZFXH2\_HUMAN Zinc finger homeobox protein 2 OS=Homo sapiens GN=ZFXH2 PE=2 SV=3

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EAYLVAKLSLPGGSELLLPKGFPGWGEAGIKEEPSLPFLAYPPPSHLTALHIQHGFDP IQG  
FSSSDQILSHDTSAPSPAACEERHGAFWSYQLAPNPPGDPKDGPMGNSGGNHVAVFWLCL  
LCRLGFSKPPQAFMDHTQSHGVKLTPAQYQGLSGSPAVLQEGDEGCKALISFLEPKLPARP  
SSDIPLDNSSTVNMEANVAQTEDGPPEAEVQALILLDEEVMALSPSPPTATWDPSPTQA  
KESPVAAGEAGPDWFPEGEEDGGLCPPLNQSSPTSKEGGTLPAPVGSPEPDPSPQPYPYR  
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SHCSYCSAGGAHPRLARGESYNGYKPYRCDVCNYSTTTKGNLSIHMQSDKHLANLQGFQ  
AGPGGQGSPEASLPPSAGDKPEKTKSSWQCKVCSYETNISRNLRHMTSEKHMQNVMLML  
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GTRAPEERSRAGGHWP IEEEESSRGNLPLVPAGRRFSRTKTFEFQTQALQSFFETSAYP  
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LQPPPQPPEPTATAPPKPELPAPGEGEAGEVDELLTGSTGISTVDVTHRYLCRQCKMAF  
DGEAPATAHQRSFCFFGRGSGGSMPPPLRVPICTYHCLACEVLLSGREALASHLRSSAHR  
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>sp|Q6P2D0|ZFP1\_HUMAN Zinc finger protein 1 homolog OS=Homo sapiens GN=ZFP1 PE=1 SV=2

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>sp|Q49AA0|ZFP69\_HUMAN Zinc finger protein ZFP69 OS=Homo sapiens GN=ZFP69 PE=2 SV=2

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SHRAYLTHHQRIHTGERPYCKEKGKAFRQRIHLSNHKTVHTGVKAYECNRCGKAYRHDS  
SFKKHQRHHTGEKPYECNECGKAFSYNSSLSRHHEIHRNNAFRNKV

>sp|Q96JP5|ZFP91\_HUMAN E3 ubiquitin-protein ligase ZFP91 OS=Homo sapiens GN=ZFP91 PE=1  
SV=1

MPGETEERPRPEQQDQEGGEAAKAAPEEPQQRPEAVAAAPAGTTSSRVLRGGRDRGRAA  
AAAAAAVSRRRKAEYPRRRSSPSARPPDVPQQPQAAKSPSPVQKKSPRLLCIEKVT  
TDKDPKEEKEEEDSALPQEVSIASRPSRGWRSSRTSVSRHRDTENTRSSRSKTGSLQL  
ICKSEPNTDQLDYDVGEHQSPGGISSEEEEEEEEEMLISEEIPFKDDPRDETYKPHLE  
RETPKPRRKSGKVKEEKEKKEIKVEVEVEVKEEENEIREDEEPPKRGRRRKDDKSPRLP  
KRRKKPPIQYVRCEMEGCGTVLAHPRYLQHHIKYQHLLKKKYVCPHPSCGRLFRLQKQLL  
RHAKHHTDQRDYICEYCARAFKSSHNLAVHRMIHTGEKPLQCEICGFTCRQKASLNWHMK  
KHDADSFYQFSCNICGKKFEKDSVVAHKAKSHPEVLIAEALAANAGALITSTDILGNP  
ESLTQPSDGGQLPLLPEPLGNSTSGECLLLEAEGMSKSYCSGTERVSLMADGKIFVGS  
SGGTEGLVMNSDILGATTEVLIEDSDSAGP

>sp|A6NM28|ZFP92\_HUMAN Zinc finger protein 92 homolog OS=Homo sapiens GN=ZFP92 PE=2 SV=3

MAAILLTRPKVPVSFEDVSVYFTKEWKLLDLRQKVLYKRVMLENYSHLVSLGFSFSKP  
HLISQLERGEPPWADIPRTWATAGLHIGDRTQSKTSTSTQKHSGRQLPGADPQGGKEGQ  
AARSSVLQRGAQGLGQSSAAGPQGPKGAEKRYLCQQCGKAFSRSSNLIKHRIHSGEKPY  
ACPECGKLFRRSFALLEHQRIHSGEKPYACPECSKTFTRSSNLIKHQVIHSGERPFACGD  
CGKLFRRSFALLEHARVHSGERPYACPECGKAFSRSSNLIEHQRTHRGEKPYACGQCAKA  
FKGVSQLIHHRSHSGERPFACRECGKAFRGRSGLSQHRRVHSGEKPYECSDCGKAFGR  
ANLFKHQAVHGARRPAKAETARRLAGPGSTGPGSAVAATSPPRPSTAARPSRPSRR

>sp|Q9UPR6|ZFR2\_HUMAN Zinc finger RNA-binding protein 2 OS=Homo sapiens GN=ZFR2 PE=2 SV=3

MATSQYFDFAQGGGQYSAQPPTLPLPTVGASYTAQPTPGMDPAVNPAFPAPAAGYGGY  
QPHSGQDFAYGSRPQEPVPTATTMATYQDSYSYGQSAARSYEDRPYFQSAALQSGRMTA  
ADSGQPGTQEACGQSPHSGSHSQAPQAPIVESGQPASTLSSGYTYPTATGVQPES  
SIVTSYPPPSYNTCTAYTAPSYPNYDASVYSAASPFYPPAQP PPPPGPPQQLPPPPAPA  
GSGSSPRADSKPPLPSKLPRPKAGPRQLQLHYCDICKISCAGPQTYREHLGGQKHKKEA  
AQKTGVQPNGSPRGVQAQLHCDLCAVSCGTADAYAAHIRGSKHQKVFKLHAKLGKPIPTL  
EPALATESPPGAEAKPTSPTGPSVCASSRPALAKRPVASKALCEGPPEPQAAGCRPQWGK  
PAQPKLEGPGAPTQGGSKAPAGCSDAQVGPVEYVEEVSDEGRVLRHFCKLCECSFNDL  
NAKDLHVRGRRHRLQYRKKNPDLPIATEPSSRARKVLEERMQRHLAEERLEQLRRWH  
AERRRLEEEPPQDVPHAPPDWAQPLLMGRPESPASAPLQPGRRPASSDDRHVMCKHATI  
YPTEQELLAVQRAVSHAERALKLVSDTLAEEDRGRREEEGDKRSSVAPQTRVLKGVMRVG  
ILAKGLLLRGDRNVRALLCSEKPTSHLLRRIAQQQLPRQLQMVTEDYEYVSSDPEANIVI  
SSCEPRMQVTISVTSPLMREDPSTDPGVEEPQADAGDVLSPKKCLESALRHARWFQA  
RASGLQPCVIVIRVLRDLRVRPTWGALPAWAMELLVEKAVSSAAGPLPGDAVRRVLEC  
VATGTLTLDGPGQLDPCERDQTDALPMTLQEREDVTASAQHALRMLAFRQTHKVLGMDL  
LPPRHRLGARFRKRQRGPGEEGEGAGEKKRGRRGEGGLV

>sp|POC6A0|ZGLP1\_HUMAN GATA-type zinc finger protein 1 OS=Homo sapiens GN=ZGLP1 PE=2 SV=1

MTEPQVGCVACPRVHKEPAQVGTPWPAKPRSHPRKRDPTALLPRSLWPACQESVTALCFL  
QETVERLGQSPAQDTPVLGPCWDPMALGTQGRLLLDKSDTQTRISQKGRRLQPPGTPS  
APPQRRPRKQLNPCRGTERTVDPGFEGVTLKFQIKPDSSLQIIPITYSLPCSSRSQESPAD  
VGGPAAHPGGTEAHSAGSEALEPRRCASCRTQRTPLWRDAEDGTPLCNACGIRYKKYGR  
CSSCWLVPRKNVQPKRLCGRCGVSLDPIQEG

>sp|Q96EF9|ZHX1R\_HUMAN Zinc fingers and homeoboxes protein 1, isoform 2 OS=Homo sapiens  
GN=ZHX1-C8orf76 PE=2 SV=1

MLRKLWQWFYEETESSDDVEVLTLLKKFKGDLAYRRQEYQKALQEYSSISEKLSSTNFAMK  
RDVQEGQARCLAHLRHMEALEIAANLENKATNTDHLTTVLYLQLAICSSLQNKLEKTIFC  
LQKLISLHPFNPNWGWKLAAYLNLGPALSAALASSQKQHSFTSSDKTIKSFFPHSGKDC  
LLCFPETLPESLFSVEANSSNSQKNEKALTNIQNCMAEKRETVLIETQLKACASFIRTR  
LLLQFTQPQQTSFALERNLRTQQEIEDKMKGFSFKEDTLLLIAEVSVSLGFM

>sp|O60481|ZIC3\_HUMAN Zinc finger protein ZIC 3 OS=Homo sapiens GN=ZIC3 PE=1 SV=1

MTMLLDGGPQFPGLGVGSFGAPRHHEMPNREPAGMGLNPGDSTHA AAAAAAAAAAFKLSP  
AAAHDLSSGQSSAFTPQGSYANALGHHHHHHHHHHTSQVPSYGAASA AFNSTREFLF  
RQRSSGLSEAASGGGQHGLFAGSASSLHAPAGIPEPPSYLLFPGLHEQGAGHPSPGHVD  
NNQVHLGLRGELFGRADPYRPVAPRTDPYAAGA QFPNYS PMNMGMVNVAHHGPGAFF  
RYMRQPIKQELSKWIDEAQLSRPKKSCDRTFSTMHELVTHVTMEHVGGEQNNHVCYWE  
ECPREGKSFKAKYKLVNHIRVHTGEKPFPCPFPGCGKIFARSENKIHKRTHTGEKPFKC  
EFEGCDRRFANSSDRKKHMHVHTSDKPYICKVCDKSYTHPSSLRKHKMHVESQGS DSSPA  
ASSGYESSTPPAIASANSKDTTKTPSAVQTSTSHNPGLPNPFNEWYV

>sp|Q8IVP9|ZN547\_HUMAN Zinc finger protein 547 OS=Homo sapiens GN=ZNF547 PE=2 SV=2

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APLEPGVSVGVSQVMAKPKCLSTQNTQPCETCSSLLKDILRLAEHDGTHPEQGLYTCPAH  
LHQHQKEQIREKLSRGDGRPTFVKNHRVHMAGKTFLCSECGKAFSHKHKLSHQKIHTG  
ERTYKCSKCGILFMERSTLNRHQRTHTGERPYECNECGKAFLCKSHLVRHQTIHSGERP

MAQESVMFSDVSVDFSQEEWECLNDDQRDLYRDVMLENYSNLVSMGHSISKPNVISYLEQ  
GKEPWLADRELTRGQWPVLESRCETKKLFLKKEIYEIESTQWEIMEKLTRRDFQCSSFRD  
DWEENRQFKKELGSQGGHFNQLVFTHEDLPTLSHHPSFTLQQIINSKKKFCASKEYRKTF  
RHGSQFATHEIIHTIEKPYECKECKGSFRHPSRLTHHQKIHTGKKPFECKECKGTFICGS  
DLTRHHRIHTGEKPYECKECKGAFSSGSNFTRHQR IHTGEKPYECKECKGAFSSGSNFTQ  
HQR IHTGEKPYECKECKGNAFSQSSQLIKHQR IHTGEKPYECKECKEKAFRSGSDLTRHQR I

HTGEKPYECKICGKAYSQSSQLISHHRIHTSEKPYEYRECGKNFNYPQLIQHQNLYW

>sp|Q5MCW4|ZN569\_HUMAN Zinc finger protein 569 OS=Homo sapiens GN=ZNF569 PE=1 SV=1

MTESQGTVTFKDVAIDFTQEEWKRLDPAQRKLYRNVMLNYYNLLITVGYPFTKPDVIFKL  
EQEEEPWVMEEEVLRHHWQGEIWGVDEHQKNQDRLLRQVEVKFQKTLTEEKGNECQKKFA  
NVFPLNSDFFPSRHNLYEYDLFGKCLEHNFDCNNVKCLMRKEHCEYNEPVKSYGNSSSH  
FVITPFCNHCNGKGFNQTLDIRHLRIHTGEKPYEC SNCRKAFSHKEKLIKHYKIH SREQ  
SYKNECGKAFIKMSNLIRHQRIHTGEKPYACEKEKSFSQKSNLIDHEKIH TGEKPYEC  
NECGKAFSQQSLIAHQKVHTGEKPYACNECGKAFPRIASLALHMSHTGEKPYKCDKCG  
KAFSQQFSMLIIHVRIHTGEKPYECNECGKAFSQQSALTVMRSHTGEKPYECKECKRKA  
HKKNFITHQKIHTREKPYECNECGKAFIQMSNLVRHQRIHTGEKPYICEGKAFSQQSN  
LIAHEKIHSGEKPYECNECGKAFSQQNFITHQKVHTGEKPYDCNECGKAFSQTSLIVHMRGH  
LRSHTGEKPYECDKCGKAFSQQSLLNLHMSHTGEKPYVCNECGKAFSQRSTLIVHMRGH  
TGEKPYECNCKGKAFSQQSSSLTIHRTHTGEKPFDCSKCGKAFSQQSSSLTLHMRKHTGEK  
PYHCIECGKAFSQQSHLVRHQRIHTH

>sp|Q7Z3I7|ZN572\_HUMAN Zinc finger protein 572 OS=Homo sapiens GN=ZNF572 PE=1 SV=1

MEQEKKLLVSDSNSFMERESLKSPTGDTSMNNLETVHHNNSKADKLKEKPSEWSKRHRP  
QHYKHEDAKEMPLTWVQDEIWCHDSYESDGKSENWGNFIAKEEEKPNHQEWDSGEHTNAC  
VQQNSSFVDRPYKCSECWKSFSNSSHLRTHQRTHSGEKPYKCSECAKCFCNSSHLIQHLR  
MHTGEKPYQCGECGKSFSNTSHLIIHERTHTEKPYKCPECGKRFSSSSHLIQHRSHTG  
EKPYEC SVCGKGFSHSYVLIEHQRTHTGEKPYKCPDCGKSFSQSSSLIRHQRTHTGEKPY  
KCLECEKSFGCNSTLIKHQRIHTGEKPYQCEPGKNFSRSSNLITHQKMHTGEKSYESSE  
YEESLGQNCNVIIECRIQLGEKPYRCCECGKSFGLSHLIRHQRTHTGEKPYRCSECWKT  
FSQSSTLVIHQRTHTGEKPYKCPDCGESFSQSFNLIRHRRTHIGEKPYKTSCEKCFRS  
AYLSQHRKIHVEKPFESPDVGDFPHEWTWKNCSGEMPFISSFSVSNSSS

>sp|Q9BSK1|ZN577\_HUMAN Zinc finger protein 577 OS=Homo sapiens GN=ZNF577 PE=2 SV=3

MKNATIVMSVRREQSSSGEGSLSFEDVAVGFTREEWQFLDQSQKVLYKEVMLENYINLV  
SIGYRGTKPDSLFLKLEQGEPPGIAEGAAHSQICPGFVIQSRRYAGKDSDAFGGYGRSCLH  
IKRDKTLTGVKYHRCVKPSSPKSQLNDLQKICAGGKPEHCSVCGRAFSRKAQLIQHQRT  
RGEKPHGCGECGKTFMRKIQLTEHQRTHTGEKPEHCECGKAFSRKSQMLMVHQRTHTGEK  
PYRCSKCGKAFSRKCRNLNRHQRSHTGEKLYGCSVCGKAFSQAAYLTAHQRLHTGDKPYK  
SDCGRTFYFKSDLTRHQRIHTGEKPYECSECEKAFRSKSLIQHQRTHTGERPYSCRECG  
KAFAMSVLIKHEKTHIRETAINSLTVEKPSSRSHTSLYSELIEQKTVNTVPIEMPSS  
GTPPLLNKSERLVGRNVVIVEQPFPRNQAFVNVQEFQRISLTNEVNVAPSVINYILYLT  
DIVSE

>sp|Q8IVC4|ZN584\_HUMAN Zinc finger protein 584 OS=Homo sapiens GN=ZNF584 PE=2 SV=1

MAGEAEAQLDPSLQGLVMFEDVTVYFSREEWGLLNVTQKGLYRDVMLENFALVSSLGLAP  
SRSPVFTQLEDEQSWVPSWVDVTPVSRAEARRGFGDGLCRVEDERAHPEHLKSYRVIQ  
HQDTHSEGKPRRHTHGAAPPGSSCGQQEVHVAEKLFKCSDCGKVFLKAFALLDHLIT  
HSEERPFRCPGTGRSAFKSAHINPRKIHTGETAHVCNECGKAFSYPSKLRKHQKVHTGIK  
PFKCSDCGKTFNRKDALVLHQRIHTGERPYECSKCGKTFSVLSTLIRHRKVHIGERPYEC  
TECGKFFKYNNFILHQRVHTGERPFECKQCGKGYVTRSGLYQHWKVHTGERPYECSLCG  
KTFTTSYRNHRHQFHTEERSYECTECGKAFKHSSTLLQHKKVHTPERRQEDRAHGKVVS

C

>sp|Q96JF6|ZN594\_HUMAN Zinc finger protein 594 OS=Homo sapiens GN=ZNF594 PE=2 SV=3

MKEWKSMEISEEKSARAASEKLQRQITQECELVETSNSERLLKHVWSPLKDAMRHLPSQESGI REMHIIPQKAIVGEIGHGCNEGEKILSAGESSHRYEVSGQNFQKQSGLTEHQKIHNINKTYECKEKEKTFNRSSNLIHQRIHTGNKPYVCNECGKDSNQSSNLIHQRIHTGKPYICHECGKDFNQSSNLVRHKQIHSGGNPYECKEKGAFKGSSNLVLHQRIHSRGKPYLCNKCGKAFSQSTDLIHHRHTGEKPYECYDCGQMFSSSHLVPHQRIHTGEKPLKCNECEKAFRQHSHLTEHQRLHSGEKPYECHRCGKTFSGRTAFLKHQRLHAGEKIEECKTFSKDEELREEQRIHQEEKAYWCNQCGRNFQGTSDLIRHQVTHTEGKPYECKEKGKTFNQSSDLLRHHRIHSGEKPVCSCSKGKSFRGSSDLIRHHRVHTGEKPYECSECGKAFSQRSHLVTHQKIHTGEKPYQTECGKAFFFFRRLSIQHRRHSGEKPYECKEKGKFIWRTAFLKHQSLHTGEKLECKEKTFSQDEELRGEQKIHQEAAYWCNQCGRAFQGSDDLIRHQVTHTREKPYECKEKGKTFNQSSDLLRHHRIHSGEKPVCNKCGKSFRGSSDLIKHHRHTGEKPYECSECGKAFSQRSHLATHQKIHTGEKPYQCECGNAFFFFRRLSIQHRRHSGEKPYECKEKGKLFMWHTAFLKHQRLHAGEKLEECKEKTFSKDEELRKEQRTHQEKKVWCNQCSRTFQGSDDLIRHQVTHTREKPYECKEKGKTSSELRPSETS

>sp|Q8TC21|ZN596\_HUMAN Zinc finger protein 596 OS=Homo sapiens GN=ZNF596 PE=2 SV=2  
MPSPDSMTFEDIIVDFTQEEWALLDTSQRKLFQDVMLNISHLVSIGKQLCKSVVLSQLEQVEKLSQTRISLLQGREVGIKHQEIPFIQHIYQKGTSTISTMRSHTQEDPFLCNDLGEDFTQHIALTQNVITYMRTKHFVSKKFGKIFSDWLSFNQKHEIHTKCKSYGSHLFDYAFIQNSALRPHSVTHTREITLECRVCGKTFSKNSNLRHEMIHTGEKPHGCHLCGKAFTHCSDLRKHERTHTGEKPYGCHLCGKAFSKSSNLRHEMIHTREKAQICHLCGKAFTHCSDLRKHERTHLGDKPYGCLLCGKAFSKCSYLQHERTHNGEKPYECHLCGKAFSHCSHLRQHERSHNGEKPHGCHLCGKAFTESSVLKRHERIHTGEKPYECHVCGKAFTESSDLRRHERHTHTGEKPYECHLCGKAFNHSSVLRRHERHTHTGEKPYECNICGKAFNRSYNFRLHRRVHTGEKPYVCPLCGKAFSKFFNLRQHERHTTKAMNM

>sp|Q6ZNG1|ZN600\_HUMAN Zinc finger protein 600 OS=Homo sapiens GN=ZNF600 PE=1 SV=2  
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>sp|Q96SK3|ZN607\_HUMAN Zinc finger protein 607 OS=Homo sapiens GN=ZNF607 PE=1 SV=3  
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RIHTGEKPYECKECKGFTCRYQLTMHQRIYSGEKHYECKENGEAFSSGHQLTAPHTFES  
VEKPYKCEECGKAFSVHGRLTRHQGIHSGKKPYECNCKGKSFRLNSSLKIHQNIHTGEKP  
YKCECGKAFSQRAHLAHNRIHTGYKPFCECKEGKSFRCASYLVIHERIHTGEKPYVCQ  
ECGKGFSYSHKLTIHRRVHTGEKPYECKECKGAFSVSGQLTQHLSIHSGKKPFECNCKGK  
SFRFISVLKAHQNIHSAEKPYECKECKGAFRHATSLIYHDRTHAGEKSYECKECKGETFSH  
ASHLIHERIHTSDKPYECKRCGKAFCASYLVRHESVHADGNPYMCEECKGAFNSSHEL  
SIHHRVHTGEKPFKNCKRRSFRLRSILEVHQRIHI

>sp|Q6PF04|ZN613\_HUMAN Zinc finger protein 613 OS=Homo sapiens GN=ZNF613 PE=2 SV=2

MIKSQESLTLEDVAVEFTWEWQLLGAQKDLYRDVMLENYSNLVSVGYQASKPDALFKL  
EQGEPWTVENEIHSQICPEIKKVDNHLQMHSQKQRCLKRVEQCHKHNAFGNIIHQKSDF  
PLRQNHDTFDLHGKILKSNLSLVNQNKRYEIKNSVGVNGDGKSLHAKHEQFHNEMNFPE  
GGNSVNTNSQFIKHQRTQNIDKPHVCTECGAFLKKSRLIYHQRVHTGEKPHGCSICGKA  
FSRKSGLTEHQRNHTGEKPYECTECDKAFRWKSQNLNAHQKIHTGEKSYICSDCGKGFICK  
SRLINHQRVHTGEKPHGCSLGGKAFSKRSRLTEHQRTHTGEKPYECTECDKAFRWKSQNL  
AHQKAHTGEKSYICRDCGKGFIQKGNLIVHQRIHTGEKPYICNECGKGFIQKGNLLIHR  
THTGEKPYVCNECGKGSQKTCLISHQRFHTGKTPFVCTECGKSCSHKSGLINHQRIHTG  
EKPYTCSDCGKAFRDKSCLNRHRRHTGERPYGSDCGKAFFSHLSCLVYHKGMLHAREKC  
VGSVKLENPCSESHLSHTRDLIQDKDSVNMVTLQMPVSAAQTSLTNSAFQAESKVAIVS  
QPVARSSVSADSRICTE

>sp|Q8N8J6|ZN615\_HUMAN Zinc finger protein 615 OS=Homo sapiens GN=ZNF615 PE=2 SV=2

MMQAQESLTLEDVAVDFTWEWQFLSPAQKDLYRDVMLENYSNLVAVGYQASKPDALS  
ERGEETCTTEDEIYSRICSEIRKIDDPLQHHLQNSIQKSVKQCHEQNMFGNIVNQNGH  
FLLKQDCDFTDLHEKPLKSNLSFENQKRSSGLKNSAEFNRDGKSLFHANHKQFYTEMKFP  
AIAKPINKSQFIKQQRTHNIENAHVCSECGKAFLKLSQFIDHQRVHTGEKPHVCSMCGKA  
FSRKSRLMDHQRTHTELKHYECTCDKTFLLKKSQNLHQQTHMGKPYTCSQCGKAFFIK  
CRLIYHQRTHTEKPHGCSVCGKAFTKFSLTTHQKTHTEKPYICSECGKGFIKRRRLT  
AHHRTHTGEKPFICNCKGKFTLKNLSLITHQQTHTEKLYTCSECGKGFSMKHCLMVHQR  
THTGEKPYKNECGKGFAKLSPLIRHQRTHTEKPYVCTEKRKGFTMKSDLIVHQRTHA  
EKPYICNDCGKGFVKSRLIVHQRTHTEKPYVCGECGKGFPKIRLMGHQRTHTEKPY  
ICNECGKGFTKSHLVNHRRTHTGEKPYVCSECGKGLTGKSMLIAHQRTHTEKPYICNE  
CGKGFMTKSTLSIHQQTHTEKPYKNECDKTFRKKTCCLIHQRFHTGKTSFACTECGKF  
SLRKNDLITHQRIHTGEKPYKSCDCGKAFTTKSGLNVHQRKHTGERPYGSDCGKAFAHL  
SILVKHRRRIHR

>sp|Q8N2I2|ZN619\_HUMAN Zinc finger protein 619 OS=Homo sapiens GN=ZNF619 PE=2 SV=1

MGQPAPYAEGPIQGGDAGELCKCDFLVSIIPQTRSDIPAGARRSSMGPRSLDTCWGRGP  
ERHVHRLCNGVIFTHRNLCPLGGKTKTENEEKTAQLNISKESESHRLIVEGLMDVPQH  
PDFKDRLEKSQLHDTGNKTKIGDCTDLTVQDHESSTTEREEIARKLEESSVSTHLITKQG  
FAKEQVFYKCGEGSYNPHSDFHLHQRVHTNEKPYTCCKECKGTFRYNSKLSRHQKIHTG  
EKPYSCEECAFSQNSHLLQHQLHGGQRPYECTDCGKTFSYNSKLIRHQRIHTGEKPF  
KCKECKAFSCSYDCIIHERIHNGEKPYECKECKGSLSSNSVLIHQHRIHTGEKPYECKE  
CGKAFFHRSSVFLQHQRFTGEQLYKNECWKTFSCSSRFIVHQRIHNGEKPYECQECGKT  
FSQKITLVQHQRVHTGEKPYECKECKGAFRWNASFIHQHQRWHTRKKLINGTGLSAVKPYC  
PCAILSPLPPQHTCSALAPGPPLSSSHAVLPPSVPFLLLPSSSEKANPSPVQIAHFFQ  
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>sp|Q5EBL2|ZN628\_HUMAN Zinc finger protein 628 OS=Homo sapiens GN=ZNF628 PE=1 SV=3

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ICGQCGLAFKWSSSHYQYHLRQHTGERPYPCDCKAFKNSSSLRRHRHVHTGERPYTCGV  
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PQSREPQKVFVCDAYLQRHLQPHSPPAPPAPPPPPPPVPELFLAAEETVELVYRCDGC  
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GECGKAFRNTSCLRRHRHVHTGERPHACGVCCKSFAQTSNLRQHQRVHTGERPFRCPKCP  
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QPPAPLAAARAPPATQDVHVLPHLQATLSLEVAGGTAQAPSLGPAAPNSQTFLLVQTAQG  
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TTVQLQPAQEVTTVQLQPAQEVTTVQLQPVAGQLSNSSGGAVATEAPNLLVVQSGAAEEL  
LTGPGPGEAGDGEASTGVVQDVLFETLQTDGLQSVLVLSGADGEQTRLCVQEVETLPPG  
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SQMVQVVPAGAGPGVMTQGLPSIQIVQTLPAVQLVHTF

>sp|Q2M218|ZN630\_HUMAN Zinc finger protein 630 OS=Homo sapiens GN=ZNF630 PE=2 SV=1

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IDNQMDRYQGNQDRVLRQVTVISRETLDDEMGSKYSAFGKMFNRCTDLAPLSQKFHKFDS  
CENSLKSNSDLLNYSYARKNPTKFRFCGRPPKYNASCSVPEKEGFIHTGMEPYGDSQC  
EKVLSHKQAHVQYKFKQAREKPNVCSMCGAFIKKSLIIHQRIHTGEKPYVCGDCRKAF  
SEKSHLIVHQRIHTGEKPYECTKYGRAFSRKSFPFTHQRVHTGEKPYECFECPKAFSQKS  
HLIIHQRVHTREKPFECSECRKAFCEMSHLFIHQIHTGKKPYECTECGKTFPRKTQLII  
HQRTHTEKPYKCGECGKTFQCQSHLIGHQRIHTGEKPYVCTDCGKAFSQKSHLTGHQRL  
HTGEKPYMCTECGKSFSQKSPLIIHQRIHTGEKPYQCGECGKTFQSQSLLIIHLRVHTGE  
KPYECTECGRAFSLSKSHLILHQRGHTGEKPYECSECGKAFCGKSPLIIHQKTHPREKTPE  
CAESGMTFFWKSQMITYQRRHTGEKPSRCSDCGKAFCQHVFYFTGHQNPYRKDTLYIC

>sp|Q14966|ZN638\_HUMAN Zinc finger protein 638 OS=Homo sapiens GN=ZNF638 PE=1 SV=2

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YQNMGPQRMNVQVTQHRTDPRLTKEKLDHFHEAQKKGKPHGSRWDDPHISASVAVKQSS  
VTQVTEQSPKVQSRYTKESSILASFGLSNEDLEELSRYPDEQLTPENMPLILRDIRMR  
KMGRRLPNLPSQSRNKETLGSEAVSSNIDYGHASKYGYTEDPLEVRIYDPEIPTDEVEN  
EFQSQQNISASVPNPVNCNSMFPVEDVFRQMDFPGESSNNRSFFSVESGTKMSGLHISG  
GQSVLEPIKSVNQSIHQTVSQTMSQSLIPPSMNQPPFSELISVSQKERIPHEPVINSS  
NVHVGSRGSKKNYQSADIPIRSPFGIVKASWLPKFSHADAQKMKRLTPSMMNDYYAAS  
PRIFPHLCSLCNVECSHLKDWIQHNTSTHIESCRQLRQYQPDWNPEILPSRRNEGNRKE  
NETPRRRSHSPRRSRSSSSHRFRRSRSPMHYMRPRSRSPRICHRFISRYRSRSRSR  
SPYRIRNPFRRGSPKCFRSVSPERMSRRSVRSSDRKKALEDVVQRSGHGTEFNKQKHLEAA  
DKGHSPAQKPKTSSGTPSVKPTSATKSDSNLGGHSIRCKSKNLEDDTLSECKQVSDKAV  
SLQRKLRKEQSLHYGSVLLITELPEDGCTEEDVRKLFQPFQKVNVDLIVPYRKEAYLEME



FKEAITAIMKYIETPLTIKGSVKICVPGKKKAQNKEVKKKTLESKKVSASTLKRDATA  
SKAVEIVTSTSAAKTGQAKASVAVKNKSTGKSASSVKS VTVAVKGNKASIKTAKSGGKK  
SLEAKKTGNVKNKDSNKPVTIPENSEIKTSIEVKATENCAKEAISDAALEATENEPLNKE  
TEEMCVMLVSNLPNGYSVEEVYDLAKPFGGLKDILILSSHKKAYIEINRKAESMVKFY  
TCFPVLM DGNQLSISMAPENMNKDEEAIFITLVKENDPEANIDTIYDRFVHLDNLPEDG  
LQCVLCVGLQFGKVDHVFISNRNKAILQLDSPESAQSMYSFLKQNPQNI GDHMLTCSLS  
PKIDLPEVQIEHDPELEKESPLGNKSPIDSEVQTATDSPSVKPNELEEEESTPSIQTETL  
VQQEPCEEEEAEKATCDSDFAVETLELETQGEEVKEEIPLVASASVIEQFTENAEECAL  
NQQMFSNDLEKKGAIEINPKTALLPSDSVFAEERNLKGILEESPSEAEFISGITQTMVE  
AVAEVEKNETVSEILPSTCIVTLVPGIPTGDEKTVDKKNISEKKGNMDEKEKEFNTKET  
RMDLQIGTEKAEKNEGRMDAEKVEKMAAMKEKPAENTL FKAYPNKGVGQANKPDETSKTS  
ILAVSDVSSSKPSIKAVIVSSPKAKATVSKTENQKSFPKSVPRDQINAEKKLSAKEFGLL  
KPTSARSGLAESSKFKPTQSSLTRGGSGRISALQGKLSKLDYRDITKQSQETEARPSIM  
KRDDSNKTLAEQNTKNPKSTTRSSKSKEEPLFPFNLDEFVTVDEVIEEVNPSQAKQNP  
LKGRRKETLKNVPFSELNLKKKGKTSTPRGVEGELSFTLDEIGEEEDAAAHLAQALVT  
VDEVIDEEELNMEEMVKNSNSLFTLDELIDQDDCISHSEPKDVTVLSVAEEQDLLKQERL  
VTVDEIGEVEELPLNESADITFATLNTKGNEGD TVRDSIGFISSQVPEDPSTLTVDEIQ  
DDSSDLHLVTLDEVTEEDEDSLADFN LKEELNFVTVDEVGEEEDGDNDLKVELAQSKND  
HPTDKKGNRKKRAVDTKKTKLESLSQVGPVNENVMEDLKTMIERHLTAKTPTKRVIRIGK  
TLPSEKAVVTEPAKGEEAFQMSEVDEESGLKDSEPERKRRKTEDSSSGKSVASDVPEELD  
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>sp|Q8N7E2|ZN645\_HUMAN E3 ubiquitin-protein ligase ZNF645 OS=Homo sapiens GN=ZNF645 PE=2 SV=1

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DLPIKIYGR IIPCKHAFCYHCANLYDKVGYKVCPRCRYVLR IEAHKRGSVFMCSIVQQC  
KRTYLSQKSLQAHIKRRHKRARKQVTSASLEKVRPHIAPPQTEISDIPKRLQDRDHL SYI  
PPEQHTMVSLPSVQHMLQE QHNQPHKDIQAPPELSLSLPFIQWETVSIFTRKHGNLTV  
DHIQNNSDSGAKKPTPPDYYPECQSQPAVSSPHHIIPQKQHYAPPPSPSPVNHQMPYPP  
QDVVTPNSVRSQVPALTTTYDPSSGYIIVKVPPDMNSPPLRAPQSQNGNPSASEFASHHY  
NLNILPQFTENQETLSPQFTQTDAMDHRRWPAWKRLSPCPPTRSPPPSTLHGRSHHSHQR  
RHRRY

>sp|Q5VV52|ZN691\_HUMAN Zinc finger protein 691 OS=Homo sapiens GN=ZNF691 PE=1 SV=1

MSLCSPTHTSAEMSLFLQGPEEMLPLSSEGSEMGSEKEQSPEPHLPEEGEGGKPWRVDDSE  
GSWIPPGEKEHGQESLSD ELQETHPKKPWQKVTVRARELGDPIAHPRHAEDEKPFICAQC  
GKTFNNTSNLRTHQRIHTGEKPYKCEGKSFSRSSNRIRHERIHLEEKHYKCPKCQESF  
RRRSDLTTHQQDHLGKRPYRCDICGKSFSQSATLAVHHRTHLEPAPYICCECGKSFSNSS  
SFGVHHRHTHTGERPYECTECGRTFSDISNFGAHQRTHRGEKPYRCTVCGKHFSRSSNLKP  
FIPLWRMVLYSL

>sp|Q9H7X3|ZN696\_HUMAN Zinc finger protein 696 OS=Homo sapiens GN=ZNF696 PE=2 SV=2

MEPGGEPTGAKESSTLMESLA AVKAAFLAQAPSGRSRAEVQAAQSTEPAAEAGAPEGEGH  
RGGPPRALGSLGLCENQEARERPGGSPRGVPTSEKTGGQSGLESVPPNAGPGAEGGGSW  
KGRPFPCGACGRSFKCSSDAAKHRSIHSGEKPYECSDCGKAFIHSSHVVRHQRAHSGERP  
YACAECGKAFGQSFNLLRHQRVHTGEKPYACADCGKAFGQRSDAAKHRRTHHTGERLYACG  
ECGKRFLHSSNVVRHRRTHHGENPYECRECGQAFSQSSNLLQHQRVHTGERPFACQDCGR

AFSRSSFLREHRIHTGEKPHQCGHCGRAFRALSGFFRHQRLHTGEKPFRCTECGRAFRL  
SFHLIQHRRVHGAE

>sp|P17019|ZN708\_HUMAN Zinc finger protein 708 OS=Homo sapiens GN=ZNF708 PE=1 SV=5  
MKRHEMAAKPPAMCSHFAKDLRPEQYIKNSFQQVILRRYGKCGYQKGCKSVDEHKLHKGG  
HKGLNRCVTTTQSKI VQCDKYVKVFHKYSNAKRHKIRHTGKNPFKCKEKGKSFCLMSQLT  
QHEI IHTGEKPYKCEECGKAFKKSSNLTNHKI IHTGEKPYKCEECGKAFNQSSSTLTRHKI  
IHTGEKLYKCEECGKAFNRSSNLTKHKIVHTGEKPYKCEECGKAFKQSSNLTNHKIHTG  
EKPYKCGECGKAFTLSSHLTTHKRIHTGEKPYKCEECGKA FSVFSTLTKHKI IHTEEKPY  
KCEECGKAFNRSSHLTNHKVIHTGEKPYKCEECGKAFTKSSTLTYHKVIHTGKKPYKCEE  
CGKA FSI FSLTKHKVIHTEDKPYKCEECGKT FNYSSNFTNHKKIHTGEKPYKCEECGKS  
FILSSHLTTHKI IHTGEKPYKCKEKGKAFNQSS TLMKHKI IHTGEKPYKCEECGKAFNQS  
PNLTKHKRIHTKEKPYKCK

>sp|Q86XN6|ZN761\_HUMAN Zinc finger protein 761 OS=Homo sapiens GN=ZNF761 PE=2 SV=2  
MAFSQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDISSKCTMKEFLS  
TAQGNREVFHAGTLQIHESHNGDFCYQDVDKDIHDYEFQWQEDERNGHEAPMTKIKKLT  
GSTERYDQSHARNKPIKDQLGSSFHSHLPEMHIFQTEEKIDNQVVKSIHDASLVSTAQRI  
SCRPKTHISNNHGNFNWSSLLTQKQEVHMRKESFQCNEGKAFNYSSLLRKHQI IHLAD  
KYKCDVCGKLFNQKRNLACHRRCHTGENPYKCNCEGKTFSQTSSLTCHRRRLHTGEKPYKC  
EECDKAFHFKSILERHRI IHTEEKPYKCNCEGKTFRQKSILTRHRLHTGEKPYKCNCEG  
KTFSHKSSLTCHHRLHTGEKPYKCNCEGKTFSHKSSLTCHRRRLHTGEKPYKCEECDKAYS  
FRSNFEIHRKIHTEDNAYKCNCEGKTFSRTSSLTCHRRRLHTGEQPYKCEECDKA FRFKSN  
LERHRIHTGEKPYKCNCEGKTFSRKS YLTCHHRLHTGEKAYKCNESKTF SWKSSLTCH  
RRLHSGEKPYKCKEKGKTFNQQLTLKRHRLHSGENPYKCEDSDKAYSFKSNLEIHQKI  
TEQNPYKCNCEGKTFSRTSSLTCHRRRLHTGEKPYKCEECDKA FRVKS NLEGHRIHTGEK  
PYKCNCEGKTFSRKS YFVCHHRLHTGEKPYKCNCEGKNFSQKSSLICHHRLHTGEKPYK  
NECGKTF SQKSNLTCHRRRLHTGEKQV

>sp|POC7X5|ZN806\_HUMAN Zinc finger protein 806 OS=Homo sapiens GN=ZNF806 PE=3 SV=1  
MIKFQERVTFKDIAVIFTKEELAVLDKAQINLYQDVMLENFRNFISVDGIKNNILNLQGK  
GLIYLSQEELHCWKIWKQIRDL SVSQDYIMNLQEQCSPHLEDVSLCEEWAGMSLQISEN  
ENYVVNAI IKNQDITAWQSLTQVLTPE SWRKANIMTEPQKSQGRYKGIYVEEKLYRHARH  
DESLNWT SRDHESQECKGEDPGRHPNCGKNLGMKSTVEQHHAHVHLPQPFTCNNCGVAF  
ADDTDP RVHSTHLGEKSYKCDQYGNLSQSQYLIVHCKTHSGETPYEFHEWPTGCKQSS  
DLPRCQKVPSGDNPYKCKEKGKFRCNSSLHNHHRVHTGEMPYKCHVCGKA FGFRSLPCI  
HQQVHTGKKPYKCEDCGKGFEQSSNLLIHQRVHTGEKPYKSSECGKCFSSSVLQVHWR  
HTGEKPYRCGECGKGFSSQSTHLHIHQRVHTGEKQYNAMCVERILGIVLFFTLIREFTLQK  
NHINAKCVESALVTVHIFTSIKAITQERNHINVMSVVKASVGIIQIFNVHLRVHRGQRPC  
CKACGKGF SRNSHLLAQQRVRIDKTQYTHCEHGKDLLTHQRLHEQRETL

>sp|Q6ZN06|ZN813\_HUMAN Zinc finger protein 813 OS=Homo sapiens GN=ZNF813 PE=2 SV=2  
MALPQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENYRNLVSLDISSKCMMEFSS  
TAQGNREVIHTGTLQRHSHHTGDFRFQEIDKDIHNLEFQWQEDERN SHEAPMTEIKKLT  
GSADRYDQRHAGNKP IKDQLGSSFHSHLPELHMFQTQKGIGNQVEKSINDASSISTSQRI  
SCRPKTHISNNYGNFRNSSLTQKQEVHMRKESFQCNEGKAFNYSSLLRKHQI IHLGE  
KQYKCDVCGKVFNRKRNLVCHRRCHTGEKPYRCNEGKTFSQTYSLTCHRRRLHTGEKPYK  
CEECDKA FSKSNLKRHRIHAGEKPYKCNCEGKTFSQTSSLTCHRRRLHTGEKPFKCNCE

GKTF SRKSSLTCHHRLHTGEKPYKCNECGKTF SQELTLKCHRRLLHTGEKPYKCNECGKVFNKKANLARHHRLHSGEKPYKCTECVKTF SRNSALVIHKAIHIGEKRYKCNECGKTF SRISALVIHTAIHTGEKPYKCNECGKGFNRKTHLACHHRLHTGEKPYKCNECGKVFNKTHLAHHHRLHTGDKPYKCNECGKVFNQKAHLARHHRLHTGEKPYKCNECGKVFNQKANLARHHRLHTGEKPYKFNECGKAFN

>sp|P16415|ZN823\_HUMAN Zinc finger protein 823 OS=Homo sapiens GN=ZNF823 PE=2 SV=2  
MDSVAFEDVAVNFTQEEWALLGPSQKSLYRNMQETIRNLDCIEMKWEDQNIGDQCQNAKRNLRSHTC EIKDDSQCGETFGQIPDSIVNKNTPRVNPCDSGECGEVVLGHSSLNCNIRVDTGHKSCEHQEYGEKPYTHKQKGKAI SHQHSFQTHERPPTGKKPFDCKECAKTFSSLG NLRHMAAHHGDGPYCKLCGKAFVWPSLFHLHERHTHTGEKPYECKQCSKAFFPYSSYL RHERIHTGEKAYECKQCSKAFFDYSTYLRHERHTHTGEKPYKCTQCGKAFSCYY YTRLHERHTGEPYACKQCGKTFYHHTSFRRHMI RHTGDGPHKCKICGKGFD CPSSVRNHETTHTGEKPYECKQCGKVLSSSSFRSHMITHTGDGPQKCKICGKAFGCPSLFQRHERHTHTGEKPYQCKQCGKAFSLAGSLRRHEATHTGVKPYKCQCGKAFSDLSSFQNHETTHTGEKPYECKECKGAFSCFKYLSQHKRHTHTVEKPYECKTCRKAFSHFSNLKVHERIHSGEKPYECKECKGAFSWLTCLLRHERIHTGEKPYECLQCGKAFTSRFLRGHEKTHTGEKLYECKECKGALSSLSLHRHKRTHWKDTL

>sp|Q96NB3|ZN830\_HUMAN Zinc finger protein 830 OS=Homo sapiens GN=ZNF830 PE=1 SV=2  
MASSASARTPAGKRVINQEELRRLMKEKQRLSTSRKRIESPFAKYNRLGQLSCALCNTPVKSELLWQTHVLGKQHREKVAELKGAKEASQGSSASSAPHSVKRKAPDADDQDVKRAKATLVPQVQPSTSAWTTNFDKIGKEFIRATPSKPSGLSLLPDYEDEEEEEEEEEEGDGERKRGDASKPLSDAQGKEHSVSSSREVTSSVLPNDDFFSTNPPKAPIIPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDARVRKVDAPKDQMDKEWDEFQKAMRQVNTISEAIVAEEDEEGR LDRQIGEIDEQIECYRRVEKLRNRQDEIKNKLKEILT IKELQKKEENADSDEGELQDL LSQDWRVKGALL

>sp|Q08AG5|ZN844\_HUMAN Zinc finger protein 844 OS=Homo sapiens GN=ZNF844 PE=1 SV=1  
MDLVAFEDVAVNFTQEEWSLLDPSQKNLYREVMQETLRNLASIGEKWKDQNI EDQYKNPRNNLRSLGGERVDENTEENHCGETSSQIPDDTLNKKTS PGVKSCCESSVCGEVFVGHSSLNRHIRADTAHKPSEYQEYGEQEPYKQQRKKA FRCHPSFQMKEKAHTGEKLYDCKECKGKTFIS HSSIQRHMIMHNGDGT YCKFCGKACPLSIYLIHERVHTGEKPYKCKQCGKAFSYSTSLQIHERHTHTGEKPYECKECKGAFGSPNSLYEHRRHTHTGEKPYECKQCGKA FRWFHSFQIHERTHSEEKAYECTCKGKAFKCP SYLCRHEVTHSGKKPCECKQCGKALSYLNFQRHMKMHTRMRPYCKTVEKPLILPVRFEDMKELTLERNLMNASTVVKPSIVVPFTIMKGLTLERNPMNVSSVVKPSFLPLPFDIMKGLTLERNRMSVSNVGKPSDLPHTFKCMEG LTLKRNP MNVSSVVKPSFFPLPFDIMKGLTLERNPMSVSNVGKPSHL PHTFKCMKGLTLESNCMNLNNVKKPLDLSETFKFMKRHTLERNPIRNM EKHSTISLPFKYMQQCTEDRMPMNKSVTKHSYLP RSFEYMQEHTLERNPMNVRNAEKRSIIFLLCVYTKGCTLERNHINVRIVGKHSVCLVPFVDI KGLTLE

>sp|A8MQ14|ZN850\_HUMAN Zinc finger protein 850 OS=Homo sapiens GN=ZNF850 PE=3 SV=2  
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QIHTGEKPYHCKQCGKSFTV GSTLIRHQQIHTGEKPYDCKEKGKSFASGSALIRHQR IHT  
GEKPYDCKEKGKSFTHSALIRHQR IHTGEKPYDCKEKGKSFTRSGLIHQAIHTGEK  
YDCKEKGKSFTHSALIRHQR IHTGEKPYDCKEKGKSFASGSALLQHQR IHTGEKPYCCK  
ECKGSFTFRSTRNRHQR IHTGEKPYNCKEKGKSFASGSALLQHQR IHTGEKPYHCKEKGK  
SFTFRSGLIHQAVHTGEKPYDCKEKGKSFTHSALIRHQR IHTGEKPYHCKEKGKSFTH  
GSTLLQHQQIHTGEKPYDCKEKGKAFRLRLRLTQHQQIHTGEKPYQCQECGKAFVSVSGL  
TQHHR IHTGEKPYECPDCGKAFRQRTYLNQHRR IHTGEKPYECKEKGKSFTHSGLIHQ  
QNHTDEKPYDGKEKGKSFTHSGLIHQQQIHTGEKPYDCKEKGKSFTHSGLIHQQQIHT  
GEKLYDCKEKGKSFTHSGLIHQPLHTGEKPYHCKEKGKSFTHSGLIHRPVHTGEK  
YSCKEKGKSFTHSGLIHR IHTGEKPYHCKEKGKSFTHSGLIHR IHTGEKPYDCK  
ECKAFFFFRSLTQHQR IHTGEKPYRCKEKGKAFVRFSGLTQHHS IHTGEKPYECKTCGK  
SFRQRTHTLTHQR IHTGDRPYECKEKGKSFTHSGLIHRQRTHTGEKPYDCKEKGKAFRC  
PSQLSQHKRIHTGEKTYQCPECKGAFFYASGLSRHQSHTGEKPYECKTCGKAFKQLTQL  
TRHQR IHDLT

>sp|POC24|ZN883\_HUMAN Zinc finger protein 883 OS=Homo sapiens GN=ZNF883 PE=2 SV=1  
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RIHTGEKPYECNECGKAFSQSTNLQHQRVHTGEKPYECNECEKTFSHRSSLRNHER IHT  
GEKPYPCNECGKAFSHISALTQHHR IHTGKKPYECTECGKTFSRSTHLIEHQGIHSEES  
YQCKQCRKVFCHSTSLIRHQRTHTGEKPYECNECGKAFSHTPAFIHQQR IHTGEKPYECN  
ACGKAFNRSAHLTEHQRTHTGEKPYVCKEKGKTFSRSTHLTEHLKIHSCVKPYQCNECQK  
LFCYRTSLIRHQRTHTGEKPYQCNECGKSFSLSSALTKHKRIHTRERPYQCTKCGDVFCH  
STSLIRHQRTHFRKETLAE

>sp|P21506|ZNF10\_HUMAN Zinc finger protein 10 OS=Homo sapiens GN=ZNF10 PE=1 SV=3  
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DVILRLEKGEEPWLVERIEHQETHPDSEAFIEKSSVSSRSIFKDKQSCDIKMEGMARND  
LWYLSLEE VWKCRDQLDKYQENPERHLRQVAFQKKVLQERVSESGKYGGNCLLPAQLV  
LREYFHKRDSHTKSLKHDVLNQHQDSCASNSNECGQTFCQNIHLIQFARTHTGDKSYKC  
PDNDNSLTHGSSGLISKGIHREKPYECKEKGKFFSWRSNLTRHQLIHTGEKPYECKEKGK  
SFSRSSHLIGHQKTHTGEEPYECKEKGKSFWSFSLVTHQRTHTGDKLYTCNQCGKSFVH  
SSRLIRHQRTHTGEKPYECPECKGSFRQSTHLILHQRTHVRVRPYECNECGKSYSQRSHL  
VVHHR IHTGLKPFCKDCGKCFSRSSHLYSHQRTHTGEKPYECHDCGKSFSQSSALIVHQ  
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GEQFLTCNQCGTALVNTSNLIGYQTNHIRENAY

>sp|P17017|ZNF14\_HUMAN Zinc finger protein 14 OS=Homo sapiens GN=ZNF14 PE=2 SV=3  
MDSVSFEDVAVNFTLEEWALLDSSQKKLYEDVMQETFKNLVCLGKKWEDQDIEDDHRNQG  
KNRRCHMVERLCESRRGSKCGETTSQMPNVNINKETFTGAKPHECSFCGRDFIHHSSLNR  
HMRSHTGQKPNEYQEYEQPKCKAVGKTFSYHHCFRKHERTHTGVKPYECKQCGKAFIY  
YQPFQRHERTHAGQKPYECKQCGKTFIYYQSFQKHAHTGKKPYECKQCGKAFICYQSFQR  
HKRTHTGEKPYECKQCGKAFSCPTYFRTHERTHTGEKPYCKECKGKAFSFLSSFRRHRT  
HSGEKPYECKEKGKAFYASAFRAHVIHTGARPYCKECKGKAFNSNSCRVHERTHIGE  
KPYECKRCGKSFSWSISLRLHERTHTGEKPYECKQCHKTFSSSLREHETHTTGEKPYE  
CKQCGKTFSSSLQRHERTHNAEKPYECKQCGKAFRCSSYFRIHERSHTGEKPYECKQC  
GKVFIRSSSFR LHERTHTGEKPYECKLCKGKTFSSSLREHEKIHTGNKPFCKQCGKAF  
LRSSQIRLHERTHTGEKPYQCKQCGKAFISSKFRMHERTHTGEKPYRCKQCGKAFRFSS

SVRIHERSHTGEKPYECKQCGKAFISSSHFRLHERTHMGEKV

>sp|Q15935|ZNF77\_HUMAN Zinc finger protein 77 OS=Homo sapiens GN=ZNF77 PE=2 SV=2

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FGNGISNDEEIVKFTGSDSWSIFGENWRFDNTGDQHQPQRHLRSQGLRLCESNEGHQCG  
ETLSQTANLLVHKSYPTAKPSECTKCGKAFENRQRSHTGQRPCKECCGQACSLSCQSPP  
MKTQTVEKPCNCQDSRTASVTYVKSLSKKSYECQKCGKAFICPSSFRGHVNSHHGQKTH  
ACKVCGKTFMYSYLTRHVRTHTEKPYECKEKGAFSCPSYFREHVRTHTEKPYECKH  
CGKSFSCYSSFRDHVRTHTEKPCQCKHCGKAFTCYSSLREHGRTHSGEKPYECKEKGKA  
FRYPSSLRAHMRMHTGEKPYVCKQCGKAFGCPTYFRRHVKTHSGVKPYQCKEKGKAYSFS  
SSLRIHVRTHTEKPFECKHCGKAFSCHSSLREHVRTHSGEKPYECNQCGKAFSHAQYFQ  
KHVRSHSGVKPYECTECKKAYSSSSLRVHVRTHTEKPYECKQCGKTFRYLASLQAHVR  
THAGA

>sp|P17097|ZNF7\_HUMAN Zinc finger protein 7 OS=Homo sapiens GN=ZNF7 PE=1 SV=1

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EEPWVLDLQGAEGTEAPRTSKTDSIRTENEQACEDMDILKSESYGTVVRI SPQDFPQNP  
GFGDVSDSEVWLDLHSGPLKVTGFTFQNNCLNEETVVPKTFTKDAPQCKELGSSGLD  
CQPLESQGESAEQMSQRCEECGKIRATSDIALHWEINTQKISRCQECQKLSLCLQKQH  
TNNCHGEKPYECAECGVFRLCSQLNQHQRIHTGEKPFKCTECKAFRLSSKLIQHQRTH  
TGEKPYRCEECGKAFQSSSLIHHQRHTGERPYGCRECGKAFSQQSQLVRHQRTHTGER  
PYPCKECKGAFSQQSSTLAQHQRMTGEKAQILKASDSPSLVAHQRIHAVEKPFKCECGK  
AFRWISRLSQHQLHTGEKPYKCNKCTKAFGCSSRLIRHQRTHTGEKPFKCECGKGFVQ  
GSHLIQHQRHTGEKPYVCNDCGKAFSQQSSSLIYHQRIHKGEKPYECLQCGKAFSMSTQL  
TIHQRVHTGERPYKNECGKAFSQNSTLFQHQI IHAGVKPYECSECGKAFSRSSYLIEHQ  
RIHTRAQWFYEGNALEGSTFVSRKKVNTIKKLHQCEDCEKIFRWRSHLIIHQRIHTGEK  
PYKCNDCGKAFNRSSRLTQHKKIHMG

>sp|Q03923|ZNF85\_HUMAN Zinc finger protein 85 OS=Homo sapiens GN=ZNF85 PE=1 SV=3

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EAWSMKRHEIMVAKPTVMCSHFAQDLWPEQNIKDSFQKVTLKRYGKCRHENLPLRKGES  
MDECKMHKGGCNGLNQCLTATQSKIFQCDKYVKVAHKFSNSNRHEIRHTKKKPFKCTKCG  
KSFGMISCLTEHSRIHTRVNFYKCEECGKAFNWSSTLTCHKRIHTGEKPYKCEECGKAFN  
QSSNLIKHKKIHTGEKPYKCEECGKTFNRFSTLTTHKI IHTGEKPYKCKEKGAFNRSST  
LTTHRKIHTGEKPYKCEECGKAFKQSSNLTTHKI IHTGEKPYKCKKCGAFNQSAHLTTH  
EVIHTGEKPYKCEKCGAFNHFSLTTHKI IHTGEKPYKCKEKGAFKHSSTLTCHKI IH  
TGEKPYKCEKCAFNQSSKLTEHKKIHTGEKPYEKECGKAFNQSSNLTRHKKSHTEEK  
PYKCEECGKGFKPSTLTTHKI IHTGEKPYKCEECGKAFNQSSKLTKHKKIHTGEKPYTC  
EECGKAFNQSSNLTKHKRIHTGEKPYKCEECDAFKWSSVLTCHKI IHTGEKLQI

>sp|P35789|ZNF93\_HUMAN Zinc finger protein 93 OS=Homo sapiens GN=ZNF93 PE=2 SV=4

MGPLQFRDVAIEFSLEEWCLDTAQRNLRYNVMLENYSNLVFLGIVVSKPDLIAHLEQGK  
KPLTMKRHEMVANPSVICSHFAQDLWPEQNIKDSFQKVLRRYEKRGHGNLQLIKRCESV  
DECKVHTGGYNGLNQCSSTTQSKVFQCDKYGVFHKFSNSNRHNIHTEKKPFKCECGK  
AFNQFSTLITHHKIHTGEKPYICEECGKAFKYSSALNTHKRIHTGEKPYKCDKCDKAFIA  
SSTLSKHEI IHTGKPYKCEECGKAFNQSSLTTHKKIHTGEKPYKCEECGKAFNQSSLT  
TKHKKIHTGEKPYVCEECGKAFKYSRILTTHKRIHTGEKPYKCNKCGKAFIASSTLSRHE  
FIHMGKKHYKCEECGKAFIWSSVLTTRHKRVHTGEKPYKCEECGKAFKYSSTLSSHKRSHT

GEKPYKCEECGKAFVASSTLSKHEIIHTGKKPYKCEECGKAFNQSSSLTKHKKIHTGEKP  
YKCEECGKAFNQSSSLTKHKKIHTGEKPYKCEECGKAFNQSSSLIKHKKIHTREKPYKCE  
ECGKAFHLSTHLTTHKILHTGEKPYRCRECGKAFNHSATLSSHKKIHSGEKPYECDKCGK  
AFISPSLSRHEIIHTGEKP

>sp|Q9BRI3|ZNT2\_HUMAN Zinc transporter 2 OS=Homo sapiens GN=SLC30A2 PE=1 SV=1  
MEAKEKQHLLDARPAIRSYTGS LWQEGAGWIPLPRPGLDLQAIELAAQSNHHCHAQKGPD  
SHCDPKKGKAQRQLYVASAICLLFMIGEVEILGALVSVLSIWVVTGVLVYLAVERLISG  
DYEIDGGTMLITSGCAVAVNIIMGLTLHQSGHGHSHGTTNQEEENPSVRAAFIHVIGDFM  
QSMGVLVAAYILYFKPEYKYVDPICTFVFSILVLGTTLTILRDVILVLMEGTPKGVDFTA  
VRDLLSVEGVEALHSLHIWALTVAQPVLSVHIAIAQNTDAQAVLKTASSRLQGKFHFHT  
VTIQIEDYSEDMKDCQACQGPSD

>sp|O14863|ZNT4\_HUMAN Zinc transporter 4 OS=Homo sapiens GN=SLC30A4 PE=2 SV=2  
MAGSGAWKRLKSMRLRKDDAPLFLNDTSAFDFSDEAGDEGLSRFNKLRVVVADDGSEAPER  
PVNGAHPTLQADDDSLDQDLPLTNSQLSLKVDSCDNC SKQREILKQRKV KARLTIAAVL  
YLLFMIGELVGGYIANS LAIMTDALHMLTDSAIILTL LALWSSKSPTKRFTFGFHRLE  
VLSAMISVLLVYILMGFLLYEAVQRTIHMNYEINGDIMLITAAVGAVNVIMGFLN QSG  
HRHSHSHSLPSNSPTRGSGCERNHGQDSLAVRAAFVHALGDLVQSVGVLIAAYIIRFKPE  
YKIADPICTYVFSLLVAFTTFRIIWDTVVIILEGVPSHLNVDYIKEALMKIEDVYSVEDL  
NIWSLTSGKSTAIVHIQLIPGSSSKWEEVQSKANHLLNTFGMYRCTIQLQSYRQEVDR  
T CANCESSSP

>sp|Q8NEW0|ZNT7\_HUMAN Zinc transporter 7 OS=Homo sapiens GN=SLC30A7 PE=2 SV=1  
MLPLSIKDDEYKPPKFNLF GKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSN  
CLGLISDSFHMFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLAGFVNGLFLIFTAF  
FIFSEGVERALAPPDVHHERLLLV SILGFVVNLIGIFVFKHGGHGHSHSGHGHSHSLFN  
GALDQAHGHVDHCHSHEVKHGAASHDHAHGHGHFHS HDGPSLKETTGPSRQILQGVFLH  
ILADTLGSIGVIAASAIMMQNFGLMIADPICSILIAILIVSVIPLLRESVGILMQRT PPL  
LENSLPQCYQRVQQLQGVYSLQE QHFWTLCSDVYVGT LKLIVAPDADARWILSQTHNIFT  
QAGVRQLYVQIDFAAM

>sp|Q8IWU4|ZNT8\_HUMAN Zinc transporter 8 OS=Homo sapiens GN=SLC30A8 PE=1 SV=2  
MEFLERTYLVNDKAAKMYAFTLESVELQQKPVNKDQCPRERPEELES GGMVYHCHSGSKPT  
EKGANEYAYAKWKLCSASAICFIFMIAEVVGHHIAGSLAVVTDAHLLIDLTSFLLSLFS  
LWLSSKPPSKRLTFGWHRAEILGALLSILCIWVVTGVLVYLACERLLYPDYQIQATVMI  
VSSCAVAANIVLTVVLHQRCLGHNHKEVQANASVRAAFVHALGDLFQSISVLISALIIF  
KPEYKIADPICTFIF SILVLASTITILKDFSILLMEGVPKSLNYSVGKELILAVDGVLSV  
HSLHIWSLT MNQVILSAHVATAASRDSQVVRREIAKALSKSFTMHSLTIQMESPVDQDPD  
CLFCEDPCD

>sp|Q6PML9|ZNT9\_HUMAN Zinc transporter 9 OS=Homo sapiens GN=SLC30A9 PE=1 SV=1  
MLPGLAAAAAHRCSSWSSLCRLRLRCRAAACNP SDRQEWQNLVTFGSFSNMVPCSHPIGT  
LSQVKLYSTNVQKEGQGSQTLRVEKVP SFETAEGIGTELKAPLKQEPLQVRVKAVLKKRE  
YGSKYTQNNFITGVRAINEFCLKSSDLEQLRKIRRRSPHEDTESFTVYLRSDVEAKSLEV  
WGSPEALAREKKLRKEAEIEYRERLFRNQKILREYRDFLGNTKPRSRTASVFFKGP GKVV  
MVAICINGLNCFFKFLAWIYTGASMFSEAIHSLSDTCNQGLLALGISKSVQTPDP SHPY  
GFSNMRYISSLSGVGIFMMGAGLSWYHGMGLLHPQPIESLLWAYCILAGSLVSEGATL  
LVAVNELRRNARAKGMSFYKYVMESRDPSTNVILLEDTAAVLGVIIAATCMGLTSITGNP

LYDSLGLGVGTLLGMVSAFLIYTNTEALLGRSIQPEQVQRLTELENDPSVRAIHDKA  
TDLGLGKVRFKAEVDFDGRVVTRSYLEKQDFDQMLQEIQEVKTPEELETFMLKHGENIID  
TLGAEVDRLEKELKKRNPEVRHVDLEIL

>sp|Q9BUG6|ZSA5A\_HUMAN Zinc finger and SCAN domain-containing protein 5A OS=Homo sapiens  
GN=ZSCAN5A PE=2 SV=1

MAANCTSSWSLGESCNRPGLLEPRSMASSETQLGNHDVDPEISHVNFRMFSCPKE SDPIQ  
ALRKLTELCHLWLRPDLHTKEQILDMLVMEQFMISMPQELQVLVMMNGVQSCKDLEDLLR  
NNRRPKKWSVVTFHGKEYIVQSDIEMAEAPSSVRDDLKDVSSQRASSVNQMRPGEGGAH  
RELQILPRVPALSRRQGEDFLLHKSIDVTGDPKSLRPKQTLEKDLKENREENPGLTSPEP  
QLPKSPTDLVRAKEGKDPPKIASVENVDADTPSACVVEREASTHSGNRGDALNLSSPKRS  
KPDASSISQEEPQGEATPVGNRES PGQAGMNSIHSPGPASPVSHPDGQEAKALPPFACDV  
CEKRFTCN SKLVIHKRSHTGERLFCNL CGKRFMQLISLQFHQRTHTGERPYTCDVCQKQ  
FTQKSYLKCHKRSHTGEKPFECKDCKKVFTYRGS LKEHQRIHSGEKPYKCSKCPRAFSRL  
KLLRRHQKTHPEATSQ

>sp|P17040|ZSC20\_HUMAN Zinc finger and SCAN domain-containing protein 20 OS=Homo sapiens  
GN=ZSCAN20 PE=2 SV=3

MAMALELQAQASPQPEPEELLIVKLEEDSWGSESKLWEKDRGSVSGPEASRQRFRQFQYR  
DAAGPHEAFSQLWALCCRWL RPEIRLKEQILELLVLEQFLTILPREVQTVVQARHPESGE  
EAVALVEDWHRETRTAGQSGLELHTEETRPLKTGEEAQSFQLQVPDPWPEGQSQKKGVKN  
TCPDLPNHLNAEVAPQLKESAVLT PRVPTLPKMGSVGDWEVTAESQEALGPGKHAEKEL  
CKDPPGDDCGNSVCLGVPVSKPSNTSEKEQGPEFWGLSLINSGKRSTADYSLDNEPAQAL  
TWRDSRAWEEQYQWDVEDMKVSGVHWGYEETKTFLAILSESPFSEKLRTCHQNRQVYRAI  
AEQLRARGFLRTLEQCRYRVKNLLRNYRKAKSSHPPGTCPFYEELEALVRARTAIRATDG  
PGEAVALPRLGYSDAEMDEQEEGWDPEEMAEDCNGAGLVNVESTQGPRIAGAPALFQSR  
IAGVHWGYEETKAFLAILSESPFSEKLRTCHQNSQVYRAIAERLCALGFLRTLEQCRYRF  
KNLLRSYRKAKSSHPPGTCPFYEELDSL MRARA AVRAMGTVREAAGLPRCGQSSAETDAQ  
EAWGEVANEDAVKPSTLCPKAPDMGFEMRHEDEDQISEQDIFEGLPGALSKCPTA VCQP  
LDWGEDSENEDEGQWGNPSQEQQWQESSSEEDLEKLIDHQGLYLAEPYKCDTCMKSF  
RSSHFIAHQRIHTGEKPYKCLECGKNFSDRSNLNTHQRIHTGEKPYKCLECGKSFSDHSN  
LITHQRIHTGEKPYKCGECWKSFNQSSNLLKHQRIHLGGNPDQCSEPGGNFAQSPSFSAH  
WRNSTEETAPEQPQSISKDLNSPGPHSTNSGEKLYECSECGRSFSKSSALISHQRIHTGE  
KPYECAECGKSFSKSSTLANHQRTHTEKPYKCVDCGKCFSESKLITHQRVHTGEKPYK  
CLECGKFFRDRSNLITHQRIHTGEKPYKCRECGKCFNQSSSLI IHQRIHTGEKPYKCTEC  
GKDFNNSSHFSAHRRTHAGGKAS

>sp|Q8NBB4|ZSCA1\_HUMAN Zinc finger and SCAN domain-containing protein 1 OS=Homo sapiens  
GN=ZSCAN1 PE=1 SV=2

MLPRPKAPASPRRPQTPTPSEQDADPGPASPRDTEAQLRFRQFQYHVASGPHLALGQLW  
TLCRQWLRPEARSKEQMLELLVLEQFLGALPSKMRTWVQSQGPRSCREAAASLVEDLTQMC  
QQEVLVSLDSVEPQDWSFGEEEDGKSPRSQKEPSQASELILDAAAAPALPEESEWLETT  
QLQQSLHTRAEEAPRAPGLLSRARLPLKPSIWDEPEDLLAGPSSDLRAEGTVISSPKG  
PSAQRI SPRRRNRNTDQSGRHQPSLKHTKGGTQEAVAGISVVPRGPRGGRPFQCADCGMV  
FTWVTHFIEHQKTHREEGPFPCPECGKVFLHNSVLTEHGKIHLLEPPRKKAPRSKGPRES  
VPPRDGAQGPVAPRSPKRPFCQSVCGKAFPWMVHLIDHQKLHTAHGHM

>sp|Q9BR11|ZSWM1\_HUMAN Zinc finger SWIM domain-containing protein 1 OS=Homo sapiens  
GN=ZSWIM1 PE=2 SV=2

MLERLKAPWSAALQRKYFDLGIWTAPISPMALTMLNGLLIKDSSPPMLLHQVNKTAQLDT  
FNYQSCFMQSVFDHFPEILFIHRTYNPRGKVLTYFLVDGPRVQLEGHLARAVYFAIPAKE  
DTEGLAQMFQVFKKFNPAWERVCTILVDPHFLPLPILAMEFPTAEVLLSAFHICKFLQAK  
FYQLSLERPVERLLLTSLQSTMCSATAGNLRLKLYTLLSNCIPPAKLPELHSHWLLNDRIW  
LAHRWRSRAESSHYFQSLEVTTHILSQFFGTTTPSEKQGMASLFRYMQNSADKANFNQGL  
CAQNNHAPSDTIPESPKLEQLVESHIQHSLNAICTGPAAQLCLGELAVVQKSTHLIGSGS  
EKMNIQILEDTHKVQPPASCSCYFNQAFHLPCRHLAMLSARRQVLQPDMLPAQWTAG  
CATSLDSILGSKWSETLDKHLAVTHLTEEVGQLLQHCTKEEFERRYSTLRELADSWIGPY  
EQVQL

>sp|Q9HCJ5|ZSWM6\_HUMAN Zinc finger SWIM domain-containing protein 6 OS=Homo sapiens  
GN=ZSWIM6 PE=1 SV=2

MAERGQQPPAKRLCCRPGGGGGGGSSGGGGGAGGGYSSACRPGPRAGGAAAAACGGG  
AALGLLPPGKTQSPESLLDIAARRVAEKWPFQRVFERFERIPEPVQRRIVYWSFPRSERE  
ICMYSSFNTGGGAAGGPGDDSGGGGAGGGGGGSSSSPAATSAAATSAAAAAAAAAAAA  
AAAAGAGAPSVGAAGAADGGDETLPFRRGIALLESGCVDNVLQVGFHLSGTVTEPAIQS  
EPETVCNVAISFDRCKITSVTCSCGNKDI FYCAHVVALSLYRIRKPDQVKLHLP ISETLF  
QMNRDQLQKFVQYLITVHHTEVLP TAQKLADEILSQNSEINQVHGAPDPTAGASIDDENC  
WHLDEEQVQEQLFSLSQGGYHSGKQLNLLFAKVREMLKMRDSNGARM LTLITEQFMAD  
PRLSLWRQQTAMTDKYRQLWDEL GALWMCIVLNPHCKLEQKASWLKQLKKWNSVDVCPW  
EDGNHGSELPNL TNALPQGANANQDSSNRPHRTVFTRAIEACDLHWQDSHLQHI ISSDLY  
TNYCYHDDTENS LFD SRGWPLWHEHVPTACARVDALRSHGYPREALRLAIAIVNTLRRQQ  
QKQLEMFR TQKKELPHKNITSITNLEGWVGHP LDPVGT L FSSLMEACRIDDENLSGFSD F  
TENMGQCKSLEYQHLP AHKFLEEGESYLT LAVEVALIGLGQQRIMPDGLYTQEKVCRNEE  
QLISKLEIE LDDTLVKIFRKQAVFLLEAGPYSGLGEI IHRESVPMHTFAKYLF TSL LPH  
DAELAYKIALRAMRL LVLESTAPSGDLTRPHHIASVVPNRYPRWFTLSHIESQQCELAST  
MLTAAKGDVRRLETVLESIQKNIHSSSHIFKLAQDAFKIATLMDSLPDITLLKVSLELGL  
QVMRMTLSTLNWRRREMVRWLVT CATEVGVYALDSIMQTWFTLFTPT EATSIVATTVM SN  
STIVRLHLDCHQKEKLASSARTLALQCAMKDPQNCALSALTCEKDHI AFETAYQIVLDA  
ATTGMSYTLFTIARYMEHRGYPMRAYKLATLAMTHLNLSYNQDTHPAINDVLWACALSH  
SLGKNELAAIIPLVKSVKCATVLS DILRRCTLTTPGMVGLHGRNSGKLMSLDKAPLRQ  
LLDATIGAYINTHSRLTHISPRHYSEFIEFLSKARETF LMAHDGHIQFTQFIDNLKQIY  
KGKKKLMM LVRRERFG

>sp|Q5HY98|ZN766\_HUMAN Zinc finger protein 766 OS=Homo sapiens GN=ZNF766 PE=2 SV=1

MAQLRRGHLTRFDVAIEFSQEEWKCLDPVQKALYRDVMLENYRNLVSLGICLPDLSIISM  
MKQRTEPWTVENEMKVAKNPDRWEGIKDINTGRSCAVRSKAGNKPITNQLGLTFQLPLPE  
LEIFQGEKGIYECNQVQKFISHSSVSPLQRIYSGVKTHIFNKHNRNDFVDFPLLSQEQA  
HIRRKPYECNEQGVFRVSSSLPNHQVIHTADKPNRCHECGKTVRDKSGLAEHWRIRTGE  
KPYKCKEKGKLFNR IAYLARHEKVHTGESPYKNECGKVF SRITYLVRHQKIHTREKPHK  
CNKCGKVYSSSYLAQHWRIHTGEKLYKCNKCGKEFSGHSSLTTHLLIHTGEKPYKCKEC  
DKAFRHKFSLTVHQRNHGEKPYKCHECGKVFTQVSHLARHQKIHTGEKPYKNECGKVF  
TQNSHLANHQRIHTGEKPYKCHVCGKVFRHSSWFVQHQRSVHERVLTN

>sp|Q7L3S4|ZN771\_HUMAN Zinc finger protein 771 OS=Homo sapiens GN=ZNF771 PE=1 SV=1



MPGEQQAEEMVLLVKGEDEGEEKYEVLKIPMDNKEVPGEAPAPSADPA  
RPHACPDGAFARRSTLAKHARTHTGERPFGCTECGRRFSQKSALTKHGRTHHTGERPYE  
CPECDKRFSAASNLQRHRRHTGEKPYACAHCGRRFAQSSNYAQLRVHTGEKPYACPD  
GRAFGSSCLARHRRHTHTGERPYACADCGTRFAQSSALAKHRRVHTGEKPHRCAVCGRRF  
GHRNLAEHARTHTGERPYPCAECGRFRLSSHFIHRRRAHMRRLYICAGCGRDFKLPP  
GATAATATERCPECEGS

>sp|Q6NX45|ZN774\_HUMAN Zinc finger protein 774 OS=Homo sapiens GN=ZNF774 PE=1 SV=2  
MWLGTSGKSGLPGHLENPLQECHPAQLEEWALKGISRPSVISQPEQKEEPWVLPLQNF  
ARKIPRESHTDCEHVAKLNQDNSETAEQCGTSSERTNKDLSHTLSWGGNWEQGLELEGQ  
HGTLPGEGQLESFSQERDLNKLDDGYVGEKPMCAECGKSFNQSSYLIRHLRTHHTGERPYT  
CIECGKGFQSSDLVTHRRHTHTGEKPYQCKGCEKKFSDSSTLIKHQRTHTGERPYEPEC  
GKTFRGRPHLIMHQRTHTGEKPYACLECHKSFSRSSNFITHQRTHTGVKPYRCNDCGESF  
SQSSDLIKHQRTHTGERPFKCECGKGRDSSHFAHMSHSGERPFSCPDCHKSFSS  
HLVTHQRTHTGERPFKCECGKGFADSSALIKHQRTHTGERPYKCECGKSFNQSSHFIT  
HQRIHLGDRPYRCECGKTFNQSRSHLTHQRTHTGEKPFHCKSKNKSFRQKAHLLCHQNT  
HLI

>sp|Q6ZMW2|ZN782\_HUMAN Zinc finger protein 782 OS=Homo sapiens GN=ZNF782 PE=2 SV=1  
MNTFQASVSFQDVTVEFSQEEWQHMGVPVERTLYRDVMLENYSHLVSVGYCFTKPELIFTL  
EQGEDPWLEKEKGFLSRNSPEDSQPDEISEKSPENQGHLLQVLFNTKLLTTEQEISGK  
PHNRDINIFRARMMPCKCDIAGSACQGLSLMAPHCQYSKEKAHERNVCDKWLISIKDGR  
NTQESFAYSIVKTLHHKEEVIHQTIQTLGQDFEYNESRKAFLEKAALVTSNSTHPKG  
KSYNFKNGENKYDKSTFIIPQNMNPEKSHYEFNDTGNCFCRITHKTLTGKSFQKSHI  
REHHRVHIGVKPFYEGKSFNRNSTLPVHQRTHTATDKYSDYHPCTETFSYQSTFSVHQKVH  
IRAKPYEYNECGKSCSMNSHLIWPQKSHTGEKPYEPECCKAFSEKSRLRKHQRTHTGEK  
PYKCDGCDKAFSAKSGRLIHQRTHTGEKPFECHECGKSFNYKSILIVHQRTHTGEKPFEC  
NECGKSFHMSGLRNHRHTHTGERPYKCECGKAFKLKSGLRKHHRHTHTGEKPYKCNQCG  
KAFGQKSQLRGHHRIHTGEKPYKCNHCGEAFSQKSNLRVHHRHTHTGEKPYQCECGKTFR  
QKSNLRGHHRTHTGEKPYECNECGKAFSEKSVLRKHQRTHTGEKPYNCNQCCEAFSQKSN  
LRVHQRTHTGEKPYKCDKCGRTFSQKSSLREHQKAHPGD

>sp|Q8N393|ZN786\_HUMAN Zinc finger protein 786 OS=Homo sapiens GN=ZNF786 PE=2 SV=2  
MAEPPRLPLTFEDVAIYFSEQEWQDLEAWQKELYKHVMRSNYETLVSLDDGLPKPELISW  
IEHGGEFPRKWRQSKSGNIICSSVDMHFDPGFEEQLFWGSQQAMNSGKTKSHFQLDPES  
QCSFGSFVSFRPDQGITLGSPQRHDARAPPPLACGPSESTLKEGIPGPRNLDLPLWDVP  
AWESTQHPWPVCGESCWENNHLVMHQRGHSDRTRRAWKFNKRAETQMPWSSPRVQRHF  
RCGVCGKSFRRKLCLLRHAAHTGRGPFRNADGEMCFRHELTHPSHRLPQQGEKPAQCTP  
CGKRSPLVDSTQARRCQHSREGPASWREGGASSSVHSGQKPGSRLPQEGNSHQEGDTEA  
LQHGAEGPCSCSECGERSPMASRLASPCRAHTGEKPFQCAHCTKRFLRLRLQVHQHAHG  
GERPFSCRKCGKGFQCKLTHEIRVHSGEKPFRCAKCGRNFRQGGQLLRHQRLHTDEKP  
FQCECGLSFRLESMLRAHRLRHGGERPFSCSECGRGFTHQCKLREHLRVHSGERPFQCL  
KCDKRFRLKGIKAHQHTHSKERPFSCGECGKGFTRQSKLTEHLRVHSGERPFQCECN  
SFRLKGQLLSHQRLHTGERPFQCECDKRYRVKADMAHQLLHSGEMPFSCECGKGFVKH  
SKLIEHIRTHTGEKPFQCPKCDKSFRLKAQLLSHQGLHTGERPFHCECDKNFRERGHML  
RHQRIHRPERPFACGDCGKGFYKSKLAEHIRVHTKSCPAPNELDIKKRLSQLFAMIEAD  
WS

>sp|Q5FWF6|ZN789\_HUMAN Zinc finger protein 789 OS=Homo sapiens GN=ZNF789 PE=2 SV=3  
MFPPARGKELLSFEDVAMYFTREEWGHNLNWGQKDLYRDVMLENYRNMVLLGFQFPKPEMI  
CQLENWDEQWILDLPRTGNRKASGSACPGSEARHKMKKLT PKQKFSEDLSEYKISVVMQE  
SAEKLSEKLHKKEFVDSCLTFPTSGDEYSRGFLQNLNLIQDQNAQTRWKQGRYDEDGK  
PFNQSRLLLGHERILTRAKSYECSECGKVIIRKAWFDQHQRHIFLENPFECKVCGQAFRQ  
RSALT VHKKCHLQNKPYRCHDCGKCFRQLAYLVEHKRIHTKEKPYKCSKCEKTFSQNSTL  
IRHQVIHSGEKRHKCLECGKAFGRHSTLLCHQQIHSPNTHKCECGQSFGRNVDLIQH  
RIHTKEEFFQCGECGKTF SFKRNLF RHQVIHTGSQPYQCVICGKSFKWHTSFIKHQGTHK  
GQIST

>sp|Q3KP31|ZN791\_HUMAN Zinc finger protein 791 OS=Homo sapiens GN=ZNF791 PE=2 SV=1  
MDSVAFEDVSVSFSQEEWALLAPSQKKLYRDVMQETFNLASIGEKWEDPNVEDQHKNQG  
RNLRSHTGERLCEGKEGSQCAENFSPNLSVTKKTAGVKPYECTICGAFMRLSSLTRHMR  
SHTGYELFEKPYKCKEKEKAFSYLKSFRHERSHTGEKPYCKQCGKTFIYHQPFQRHER  
THIGEPYECKQCGKALSCSSSLRVHERIHTGEKPYECKQCGKAFSCSSSIRVHERHTG  
EKPYACKECGKAFISHTSVLTHMITHNGDRPYKCKECGKAFIFPSFLRVHERIHTGEKPY  
KCKQCGKAFRCSTSIQIHERIHTGEKPYKCKECGKSFSARPAFRVHVRVHTGEKPYCKE  
CGKAFSRISYFRIHERHTHTGEKPYECKKCGKTFNYPLDLKIHKRNHTGEKPYECKEAKT  
FISLENFRRHMITHTGDGPYKCRDCGKVIFPSALRTHERTHTGEKPYECKQCGKAFSCS  
SYIRIHKRTHHTGEKPYECKECGKAFIYPTSFQGHMRMHTGEKPYKCKECGKAFSLHSSFQ  
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>sp|Q6ZN11|ZN793\_HUMAN Zinc finger protein 793 OS=Homo sapiens GN=ZNF793 PE=2 SV=2  
MIEYQIPVSFKDVVVGFTQEEWHRLSPAQRALYRDVMLETYSNLVSVGYEGTKPDVILRL  
EQEEAPWIGEAACPGCHCWEDIWRVNIQRKRRQDMLLRPGAAISKKTLPEKKSCEYNKFG  
KISLLSTDLFSSIQSPSNWNPCGKNLNHNLDLIGFKRNC AKKQDECYAYGKLLQRINHGR  
RPNGEKPRGCSHCEKAFQTNPALMYKPAVSDSLLYKRRVPPTKPHVCSECGKAFCYKS  
EFIRHQSHTGEKPYGCTDCGKAFSHKSTLIKHQRIHTGVRPFECFFCGKAFQKSHRTE  
HQRTHHTGERPFVCECGKSFGKESYLVNHRKMHTGERPYRCRECGKSFSQKSLNKHWR  
HTGEKPYGCNECGKAFYQKPNLSRHQKI HARKNAYRNENLIIVGNT

>sp|Q6ZTB9|ZN833\_HUMAN Putative zinc finger protein 833 OS=Homo sapiens GN=ZNF833P PE=5  
SV=1  
MVMHSEDEPYKCKFCGKAFDNLHLYLTHERHTHTGEKPYECNKCGKAFSCSSSIRKHARIH  
TGEKPYICKQCGKAFRYSSSIRNHENTHTGEKPCECKQCGKAFSYSSYFRIHERIHTGEQ  
VYKCKECGKTFTYPSAFHKHKSTHTSQKLYECKECGKAFCFSSFHSHEGVHTGEKPYEC  
RTWKS LQ

>sp|Q9P2E3|ZNF1\_HUMAN NFX1-type zinc finger-containing protein 1 OS=Homo sapiens  
GN=ZNF1 PE=2 SV=2  
MEERRPHLDARPNSTNHRGPVDGELPPRARNQANNPPANALRGGASHPGRHPRANNHP  
AAYWQREERFRAMGRNP HQRRNQEGHASDEARDQRHDQENDTRWRNGNQDCRNRRPPWS  
NDNFQQWRTPHQKPTQPPQAKKLGKFLLESLLQKDPSEVVITLATS LGLKELLSHSSMK  
SNFLELICQVLRKACSSKMDRQSVLHVLGILKNSKFLKVCLPAYVVGMITTEPIPDIRNQY  
PEHISNIIISLLQDLVSVFPASSVQETSMVLSLLPTSLNALRASGVDIEEETKNLEKVQT  
IIIEHLQEKRRGTLRVDTYTLVQPEADHVESYRTMPIYPTYNEVHLDERPFLRPNIISG  
KYDSTAIYLDTHFRLLREDFVRPLREGILELLQS FEGQLRKRKFDDIRIYFDTRIITPM  
CSSSGIVYKVQFDTKPLKFVRWQNSKRLLYGSLVCMKDNFETFLFATVSNREQEDLCRG

IVQLCFNEQSQQLLAEVQPSDSFLMVETTAYFEAYRHVLEGLQEVQEEDVPFQRNIVECN  
SHVKEPRYLLMGGRYDFTPLIENPSATGEFLRNVEGLRHPRINVLDPGQWPSKEALKLDD  
SQMEALQFALTRELAIIQGPPGTGKTYVGLKIVQALLTNESVWQISLQKFPILVVCYTNH  
ALDQFLEGIYNCQKTSIVRVGGRSNSEILKQFTLREL RNKREFRRNLP MHLRRAYMSIMT  
QMKESQELHEGAKTLECTMRGVLREQYLQKYISPQHWESLMNGPVQDSEWICFQHWKHS  
MMLEWLGLGVGSFTQSVSPAGPENTAQAEGDEEEEGEEESSLIEIAEEADLIQADRVIEE  
EEVVRPQRRKKEESGADQELAKMLLAMRLDHC GTGTAAGQEATGEWQTQRNQQKKMKKR  
VKDELRLNTMTAAEANEIEDVWQLDLSSRWQLYRLWLQLYQADTRRKILSYERQYRTSA  
ERMAELRLQEDLHILKDAQVVGMTTGA AKYRQILQKVEPRIVIVEEAAEVLEAHTIATL  
SKACQHLILIGDHQQLRPSANVYDLAKNFNLEVSLFERLVKVNIPFVRLNYQHRMCPEIA  
RLLTPHIYQDLENHPSVLKYEIKGVSSNLFVVEHNFPEQETQEGKSHQNQHEAHFVVEL  
CKYFLCQEYLPSQITILT TYTGQLFCLRKMPAKTFAGVRVHVVDKYQGEENDI ILLSLV  
RSNQEKGKVGFLQISNRICVALSRAKKGMYCIGNMQMLAKVPLWSKIIHTLRENNQIGPML  
RLCCQNHPEHTLVSKASDFQKVPEGGCSLPCEFR LGCGHVCTRACHPYDSSHKEFQCMK  
PCQKVICQEGHRCPLVCFQECQPCQVKVPKTI PRCGHEQMVPSCVPESDFCCQEPCKSL  
RCGHRC SHPCGEDCVQLCEMVTIKLKCGHSQPVKCGHVEGLLYGGLLVKCTTKCGTILD  
CGHPCPGSCHSCFEGRFHRCQQPCKRLLICSHKCEPCIGECPPCQRTCQNRVHSQCK  
KKCGELCSPCPEPCVWRCQHYQCTKLCSEPCNRPPCYVPCTKLLVCGHPCIGLCGEPCPK  
KCRICHMDEV TQIFFGFEDPDARFVQLED CSHIFEVQALDRYMNEQKDDEVAIRLKVCP  
ICQVPIRKNLRYGTSIKQRLEEIEIIEKEIQGSAGEIATSQERLKALLERKSLLHQLLPE  
DFLMLKEKLAQKNLSVKDLGLVENYISFYDHLASLWDSLKKMHVLEEKRVRTRLEQVHEW  
LAKKRLSFTSQELSDLRSEIQR LTYLVNLLTRYKIAEKKVKDSIAVEVYSVQNILEKTCK  
FTQEDELVLQEKMEALKATLPCSLGLISEEERVQIVSAIGYPRGHWFKCRNGHIYVIGDC  
GGAMERGTC PDCKEYIGGTNHTLERSNQLASEMDGAQAHAWSDTANLNMNFEEIQGMM

>sp|Q12836|ZP4\_HUMAN Zona pellucida sperm-binding protein 4 OS=Homo sapiens GN=ZP4 PE=2 SV=1

MWLLRCVLLCVSLAVSGQHKEAPDYSSVLHCGPWSFQFAVNLNQEATSPPVLIAWDN  
QGLLHELQNDSDCGTWIRKGP GSSVLEATYSSCYVTEWDSHYIMPVGVEGAGAAEHKV  
TERKLLKCPMDLLARDAPD TDWCDSIPARDRLPCAPSPISRGDCEGLGCCYSSEEVNSCY  
YGNTVTLHCTREGHFSIAVSRNVTSPPLLLDSVRLALRND SACNPVMATQAFVLFQFPFT  
SCGTTRQITGDRAYENELVATRDVKNGSRGSVTRDSIFRLHVSCSYSVSSNSLPINVQV  
FTLPPFPETQPGPLTLELQIAKDKNYSYYGVGDYPVVKLLRDP IYVEVSILHRTDPYL  
GLLLQQCWATPSTDPLSQPWPILVKGCPYIGDNYQTQLIPVQKALDLPFPSSHQRFSIF  
TFSFVNPTVEKQALRGPVHLHCSVSVCQPAETPSCVVTCPDLSRRRNFDNSSQNTTASVS  
SKGPMILLQATKDPPEKLRVPVDSKVLWAGLSGTLILGALLVSYLAVKKQKSCPDQMCQ

>sp|095218|ZRB2\_HUMAN Zinc finger Ran-binding domain-containing protein 2 OS=Homo sapiens GN=ZRB2 PE=1 SV=2

MSTKNFRVSDGDWICPDKKCGNVNFARRTSCNRCGREKTTEAKMMKAGGTEIGKTLAEKS  
RGLFSANDWQCKTCSNVNWARRSECNMNTPKYAKLEERTGYGGGFNERENVEYIEREES  
DGEYDEFRGKKKKYRGKAVGPASILKEVEDKESEGEDEDEDELSKYKLDEDEDEDDADL  
SKYNLDASEEEDSNKKKSNRRSRSKSRSSHSRSSSRSSSPSSSRSRSRSRSSSSSQSR  
SRSSSRERSR SRGSKSRSSSRSHRGSSSPRKRSYSSSSSPERNRKR SRSRSSSSGDRKK  
RRTRSRSPERRHRSSSGSSHGSRSSSKK

>sp|Q9H4T2|ZSC16\_HUMAN Zinc finger and SCAN domain-containing protein 16 OS=Homo sapiens  
GN=ZSCAN16 PE=1 SV=2

MTTALEPEDQKGLLIKAEDHYWGQDSSSQKCSPHRRELYRQHFRKLCYQDAPGPREALT  
QLWELCRQWLRPECHTKEQILDLLVLEQFLSILPKDLQAWVRAHHPETGEEAVTVLEDLE  
RELDEPGKQVPGNSERRDILMDKLAPLGRPYESLTVQLHPKKTQLEQEAGKPQRNGDKTR  
TKNEELFQKEDMPKDKEFLGEINDRLNKDTPQHPKSKDIIENEGRSEWQQRERRRYKCDE  
CGKSFSHSSDSLKHRRTHTEKPYKCDECGKAFIQRSHLIGHHRVHTGVKPYKCCECGKD  
FSGRTGLIQHRIHTGEKPYECDECRPFVSSALIRHRIHTANKLY

>sp|Q9Y5A6|ZSC21\_HUMAN Zinc finger and SCAN domain-containing protein 21 OS=Homo sapiens  
GN=ZSCAN21 PE=1 SV=2

MMTKVLGMAPVLGPRPPQEQVGPLMVKVEEKEEGKYLPSEMFQRFRQFGYHDTPGPR  
EALSQRLVLCCEWLRLPEIHTKEQILELLVLEQFLTILPQELQAWVQEHCPESAEEAVTLL  
EDLERELDEPGHQVSTPPNEQKPVWEKISSSGTAKESPSSMQPQPLETSHKYESWGPLYI  
QESGEEQEFADPRKVRDCLSTQHEESADEQKSEAEGKGDIIISVIIANKPEASLERQ  
CVNLENEKGTKPPLQEAGSKKGRESVPTKPTPGERRYICAECGKAFFSNSSNLTKHRRTH  
TEKPYVCTKCGKAFSHSSNLTLHYRTHLVDRPYDCKCGKAFGQSSDLLKHQRMHTEEAPY  
QCKDCGKAFSGKSLIRHYRIHTGEKPYQCNECGKSFSQHAGLSSHQLHTGEKPYCKE  
CGKAFNHSSNFNKHRIHTGEKPYWCHHCGKTFCSKSNLSKHQRVHTGEGEAP

>sp|Q3MJ62|ZSC23\_HUMAN Zinc finger and SCAN domain-containing protein 23 OS=Homo sapiens  
GN=ZSCAN23 PE=1 SV=1

MAITLTLQTAEMQEGLLAVKVEEEEEHSCGPESGLSRNPHTREIFRRRFRQFCYQESP  
GPREALQRLQELCHQWLRPEMHTKEQILELLVLEQFLTILPEELQAWVRQHRPVSGEAV  
TVLEDLERELDDPGEQVLSHAHEQEEFVKEKATPGAAQESSNDQFQTLQEEQLGYNLREVC  
PVQEIDGKAGTWNVELAPKREISQEVKSLIQVLGKQNGNITQIPEYGDTCDREGRLQKQR  
VSSSERPYICSECGKSFTQNSILIEHQRTHTEKPYECDECGRAFSQRSGLFQHQLHT  
GEKRYQCSVCGKAFSQNAGLFHHLRIHTGEKPYQCNCNKSFSRRSVLIKHRIHTGERP  
YECEECGNFIYHCNLIQHRKVHPVAESS

>sp|Q8IWY8|ZSC29\_HUMAN Zinc finger and SCAN domain-containing protein 29 OS=Homo sapiens  
GN=ZSCAN29 PE=1 SV=2

MMAKSALRENGTNSSETFRQFRFRFHYQEVAGPREAFSQLWELCCRWLRLPEVRTKEQIVEL  
LVLEQFLTIVLPGEIQNWVQEQCPENGEEAVTLVEDLEREPGRPRSSVTVSVKGQEVRLK  
MTPPKSSQELLSVRQESVEPQPRGVPKKERARSPDLGPQEQMNPKEKLKPFQSRGLPFPK  
SGVVSRLQEQEPWIPDLLGSKEKELPSGSHIGDRRVHADLLPSKKDRRSWVEQDHSFED  
EKVAGVHWGYEETRTLLAILSQTIFYEALRNCHRNSQVYGAVAERLREYGFRLTLEQCRT  
KFKGLQKSYRKVKSHPETCPFFEEMEALMSAQVIALPSNGLEAAASHSGLVGSDAETE  
EPGQRGWQHEEGAEEAVAQESDSDMDLEATPQDPNSAAPVFRSPGGVHWGYEETKTYL  
AILSETQFYEALRNCHRNSQLYGAVAERLWEYGFRLTPEQCRTKFKSLQTSYRKVNKGQA  
PETCPFFEEMDALVSRVAAPPNDGQEETASCPVQGTSEAEAQKQAEAEATEEDSDDD  
EEDTEIPPGAVITRAPVLFQSPRGFEAGFENEDNSKRDISEEVQLHRTLLARSERKIPRY  
LHQKGNESDCRSGRQWAKTSGEKRGKLTLPKSLSEVLSQQRPCLGEPYKYLKYSKSF  
GPNSLLMHQVSHQVENPYKCADCGKSFSRSARLIRHRIHTGEKPYKCLDCGKSFRDSSN  
FITHRIHTGEKPYQCGECGKCFNQSSSLI IHQRTHTEKPYQCEECGKSFNSSSHFSAH  
RRIHTGERPHVCPDCGKSFSKSSDLRAHHRTHTEKPYGCHDCGKCFKSSALNKHGEIH  
AREKLLTQSAPK

>sp|Q9NX65|ZSC32\_HUMAN Zinc finger and SCAN domain-containing protein 32 OS=Homo sapiens  
GN=ZSCAN32 PE=1 SV=3

MMAAVKSTEAHPSSNKDPTQGQKSALQGNSPDSEASRQFRQFCYQEVTPHEAFSKLWE  
LCCQWLRPKTHSKEEILLELLVLEQFLTILPEEIQTWVREQHPENGEEAVALVEDVQRAPG  
QQVLDSEKDLKVLKEMAPLGATRESLRSQWKQEVQPEEPTFKGSQSSHQRPGEQSEAWL  
APQAPRNLPQNTGLHDQETGAVVWTAGSQGPAMRDNRVSLCQQEWMCPGPAQRALYRGA  
TQRKDSHVSLATGVPWGYEETKTLLAILSSSQFYGKLQTCQQNSQIYRAMAEGLEWQGF  
RTPEQCRTKFKSLQLSYRKVRRGRVPEPCIFYEEMNALSGSWASAPPMASDAVPGQEGSD  
IEAGELNHQNGEPTVEDGTVDGADRDEKDFRNPQGQEVRLDLPVLPFNRLGFQEFKNEIK  
KENLKWDDSEEVEINKALQRKSRGVYWHSELQKGLESEPTSRRCRNSPGESEKTPSQE  
KMSHQSFACARDKACTHILCGKNCQSQSVHSPHKPALKLEKVSQCCECGKTFSSSYLVRHQ  
RIHTGEKPHKCECGKGFSEERSNLTAHLRTHTGERPYQCGQCGKSFNQSSSLIVHQRTH  
GEKPYQCIVCGKRFNNSSQFSAHRRHTGESPYKCAVCGKIFNNSSHFSHRKTHTGEKP  
YRCSHCERGFTKNSALTRHQTVMKAVLSSQEGRDAL

>sp|A7E2V4|ZSWIM8\_HUMAN Zinc finger SWIM domain-containing protein 8 OS=Homo sapiens  
GN=ZSWIM8 PE=1 SV=1

MELMFAEWEDGERFSFEDSDRFEEDSLCSFISEAESLCQNRGWRKQSAGPNSPTGGGGG  
GGSGGTRMRDGLVPLVELSAKQVAFHIPFEVVEKVYPPVPEQLQLRIAFWSFPENEEDI  
RLYSCLANGSADEFQRGDQLFRMAVKDPLQIGFHLSATVPPQMVPKQAYNVAVMFDR  
CRVTSCSCTCGAGAKWCTHVVALCLFRIHNASAVCLRAPVSESLRLQRDQLQKFAQYLI  
SELPQQILPTAQRLLDELLSSQSTAINTCVCGAPDPTAGPSASDQSTWYLDDESTLTDNIKK  
TLHKFCGSPSPVVFSDVNSMYLSSTEPPAAAEWACLLRPLRGREPEGVWNLLSIVREMFKR  
RDSNAAPLLEILTDQCLTYEQITGWVYSVRTSASHSSASGHTGRSNGQSEVAHAACASMC  
DEMTLWRLAVLDPALSPQRRRELCTQLRQWQLKVIENVKRGQHKKTLERLFPGRPAVE  
ACYFNWEEAYPLPGVTYSGTDRKLALCWARALPSRPGASRSGGLEESRDRPRPLPTEPAV  
RPKEPGTKRKGLGEGVPSSQGRPRRLSAEGGDKALHKMGPGGKAKALGGAGSGSKGSAG  
GGSKRRLSSEDSSLEPDLAEMSLDSSLALGAEASTFGGFPESPPPCPLHGGSRGPTFL  
PEPPDTYEEDGGVYFSEGPEPTASVGPPGLLPGDVCTQDDLPTDESGNGLPKTKEAAP  
AVGEEDDDYQAYYLNQDQAGGEEEAEGGAGEEHDLFAGLKPLEQESRMEVLFACAEAL  
HAHGYSSEASRLTVELAQDLLANPPDLKVEPPPAKGKKNKVSTSRQTWVATNTLSKAAFL  
LTVLSERPEHNLAFRVGMFALELQRPPASTKALEVKLAYQESEVAALLKKIPLGPSEMS  
TMRCAEELREGTLCYRPLPLMLASFIFDVLCAPGSRPPSRNWNSETPGDEELGFEEA  
VAALGMKTTVSEAEHPLLCEGTRREKGDALALMITYKDDQAKLKKILDKLLDRESQTHK  
PQTLSSFYSSSRPTASQRSPSKHGGPSAPGALQPLTSGSAGPAQPGSVAGAGPGPTEGF  
TEKNVPESPHSPCEGLPSEAALTPRPEGKVPSRLALSGRGGYNGRWGSPGRPKKHTG  
MASIDSSAPETTSDSSTLSRRPLRGWAPTSGWGRGQSDSISSSSSDSLGSSSSSGSRR  
ASASGGARAKTVEVGRYKRRPESHAPHVNPQSEAAAHFYFELAKTVLIKAGGNSSTSI  
FTHPSSSGHGQGPHRNLHLCAFEIGLYALGLHNFVSPNWSRTYSSHVSWITGQAMEIGS  
AALTILVECWDGHLTPPEVASLADRASRARDSNMVRAAEALASCLPHAHALNPNEIQRA  
LVQCKEQDNLMLEKACMAVEEAAKGGGVYPEVLFEVAHQWFWLYEQTAGGSSTAREGATS  
CSASGIRAGGEAGRMPEGRGGPGTEPVTAAAAVTAATVVPVISVGSSLYPGPGLGHG  
HSPGLHPYTALQPHLPCSPQYLTHPAHPAHMPHMPRAVFPVPSSAYPQGVHPAFLGAQ  
YPYSVTPPSLAATAVSFPVPSMAPITVHPYHTEPGLPLPTSVACELWGQGTVSSVHPAST  
FPAIQGASLPALTTPSPPLVSGGFPPPEETHSQPVNPHSLHHLHAAYRVGMLALEMLGR

RAHNDHPNNFSRSPPYTDDVKWLLGLAAKLGVNYVHQFCVGAAGVLSPFVLQEIVMETL  
QRLSPAHAHNHLRAPAFHQLVQRCQQAYMQYIHHRLIHLTPADYDDFVNARSARSAFCL  
TPMGMMQFNDILQNLKRSKQTKELWQRVSLEMATFSP

>sp|A6NGD5|ZSA5C\_HUMAN Putative zinc finger and SCAN domain-containing protein 5C OS=Homo sapiens GN=ZSCAN5C PE=5 SV=1

MAANCTSSWSLGESCNPSGSEPPQSMPSPATQLGNHSDPETCHVNFRMFSCPKESDPIQ  
ALRKLTELCHLWLRPDLHTKEQILDMLVMEQFMISMPQELQVLMMNGVQSCKDLEDLLR  
NNRRPKKWSVVSFLGKEYLMQESDVEMAEAPASVRDDPRHVSSQRTSSVNQMCPEEGQAS  
QELQTLPRVPALFRRQEEDFLLPETTVMKGDPKALRPKPTLEKDLEEDREENPGLTSPEP  
QLPNSPTGVVGAKEGKEPKKRASVENVDADTPSACVVEREASTHSGSRGDALNLRGLKRS  
KPDATSI SQEEPQGEATPVGNRES PGQAEINPVHSPGAPVSHPSGQEVKELLPFACEV  
CGKRFKYRGKLAVHTRSHTGERLFCNLGKRFMQRIGLQFHQRTHTGERPYTCDICQKQ  
FTQKSYLKCHKRSHTGEKPFECKDCKKVFTYKANLKEHQRIHSGEKPHKCSKCPRAFGRP  
ATLRRHQKTHREATSQ

>sp|Q96SZ4|ZSC10\_HUMAN Zinc finger and SCAN domain-containing protein 10 OS=Homo sapiens GN=ZSCAN10 PE=1 SV=1

MGRASLSRLRELCGHWLRPALHTKKQILELLVLEQFLSVLPPLLGLRLQGQPLRDGEEV  
VLLLEGIHREPSHAGPLDFSCNAGKSCPRADVTLEEKGCASQVPSHSPKKELPAEEPSVL  
GPSDEPPRPQPRAAQAEPGQWRLPPSSKQPLSPGPQKTFQALQESSPQGSPWPPESSR  
DQELAAVLECLTFEDVPENKAWPAHPLGFGSRTPDKEEFKQEEPKGAAWPTPILAESQAD  
SPGVPGEPQASQLGRGAAASGPGEDGSLGSSSEILEVKAEGVPEPNPELQFICADCGVS  
FPQLSRLKAHQLRSHPAGRSFLCLCCGKSFGRSSILKLHMRTHTDERPHACHLCGHRFRQ  
SSHLKHLTHSSEPAFLCAECGRGFQRRASLVQHLLAHAQDQKPPCAPESKAEAPPLTD  
VLCSHCGQSFQRRSSLKRHLRIHARDKDRSSESGSRRRDSDRRPFVCSDCGKAFFRSE  
HLVAHRRVHTGERPFSCQACGRSFTQSSQLVSHQRVHTGEKPYACPCGKRFVRRASLAR  
HLLTHGGPRPHHCTQCGKSFGQTQDLARHQRSHTGEKPCRCSECGEGFSQSAHLARHQRI  
HTGEKPHACDTCGHRFRNSSLARHRSHTGERPYSCQTCGRSFRRNAHLRRHLATHAEP  
GQEQAEPPECEVCGKSFSRSCNLLRHLLVHTGARPYSCTQCGRSFSRNSHLLRHRLRTHA  
RETLV

>sp|Q16670|ZSC26\_HUMAN Zinc finger and SCAN domain-containing protein 26 OS=Homo sapiens GN=ZSCAN26 PE=1 SV=2

MATALVSAHSLAPLNKKEGLRVVREDHYSTWEQGFKLQGNSKGLGQEPLCKQFRQLRYE  
ETTGPREALSRLRELCCQWLQPETHHTKEQILELLVLEQFLIILPKELQARVQEHHPESRE  
DVVVVLEDLQLDLGETGQDPDQPKKQKILVEEMAPLKGVEQQVRHECEVTKPEKEKGE  
ETRIENGKLIIVTDCGRVESSGKISEPMEAHNEGSNLERHQAQKPEKIEYKCSEREQRF  
IQHLDLIEHASTHTGKKLCESDVCQSSSLTGHKVLSREKQHCHECGKAFQRSSHLVRH  
QKIHLGEKPYQCNECGKVFSQNAGLLEHLRIHTGEKPYLCIHCGKNFRSSHLNRHQRIH  
SQEEPCEKECEGKTFSQALLLTHHQRIHSHSKSHQCNECGKAFSLTSDLIRHHRIHTGEK  
PFKCNICQKAFRLNSHLAQHVRIHNEEKPYQCSECGEAFRQSRGLFQHQRYYHKKDKLA

>sp|Q86W11|ZSC30\_HUMAN Zinc finger and SCAN domain-containing protein 30 OS=Homo sapiens GN=ZSCAN30 PE=1 SV=1

MSGEATVLAYHAPEEQEGLLVVKEEENYVLDQDFGLQENPWSQEVFRQKFRQFSYSDST  
GPREALSRLRELCCQWL RPEVHSKEQILELLMLEQFLAILPEELQAWLREHRPENGEEAV  
TMLEELEKELEEPRQDTHGQEMFWQEMTSTGALKSLSLNSPVQPLENQCKTETQESQA

FQERDGRMVAGKVLMAKQEI VECVASAAMISPGKLPGETHSQRIAEALGGLDNSKKQKG  
NAAGNKISQLPSQDRHFLATFNRRIPTEHSVLESHESEGSFSMNSNDITQQSVDTREKL  
YECFDCGKAFCQSSKLIRHQRIHTGERPYACKECGKAFSLSSDLVRHQRIHSGEKPYECC  
ECGKAFRGSSELIRHRIHTGEKPYECGECGKAFSRSSALI QHKKIHTGDKSYECIACGK  
AFGRSSILIEHQRIHTGEKPYECNECGKSFNQSSALTQHQRHTGEKPYECSECRKTRFH  
RSGLMQHQRTHTRV

>sp|Q9P217|ZSWM5\_HUMAN Zinc finger SWIM domain-containing protein 5 OS=Homo sapiens  
GN=ZSWIM5 PE=2 SV=2

MADGGEREELLSPSPVSPAKRQCSWPSPQAHHPRGSPGAAGGGAGGVGSSCLVLGARPHL  
QPDSLLDCAAKTVAEKWAYERVEERFERIPEPVQRRIVYWSFPRNEREICMYSSFQYRGG  
PGAGAAAGGAAGASPAEEGPQPPPGAAAPAGSAPGGVAAGASPLGAGAGAAGCGGGLPF  
RRGIRLLDSGSVENVLQVGFHLSGTVTELATASEPAVTYKVAISFDRCKITSVTTCGCGNK  
DIFYCAHVVALSLYRIRKPDQVKLRLP ISETL FQMNRDQLQKFIQYLITAHHTEVLP TAAQ  
KLADEILSSNSEINQVNGAPDPTAGASIDDENCWHLDEEQVKEQVKLFSLQGGYCGSGKQ  
LNSMFAKVREMLMRDSNGARMLTLITEQFVADPRLTLWRQQGTNMTDKCRQLWDEL GAL  
WVCII LNP HCKLEEKSCWLQQLQKWSDL DVCPL EDGNYGHEL PNITNALPQSAIHSPDSL  
SRPRRTVFTRAIEGRELHWQDShLQRIISSDVYTAPACQRESERLLFNSQGQPLWLEHVP  
TACARVDALRSHGYPKEALRLTVAIINTLRLQQQRQLEIYKHQKKELLQRGTTTITNLEG  
WVGHP LDPIDCLF LTLTEACRLND DGYLEMSDMNESRPPVYQHVPVAAGSPNSSESYLSL  
ALEVALMGLGQQLMPEGLY AQDKVCRNEEQLLSQLQELQLDDEL VQTLQKQCILLEGG  
PFSGLGEVIHRESVPMHTFAKYLFSALLPHDPDLSYKLALRAMRPLVLENSASAGDTSH  
HHMVSVP SRYPRWFTLGHLESQQCELASTMLTAAKGDTLRLRTILEAIQKHIHSSSLIF  
KLAQDAFKIATPTDSSTDTLLNVALELGLQVMRMTLSTLNWRRREMVRWLVT CATEVGV  
RALVSILQSWYTLFTPTEATSIVAATAVSHTTILRLSLDYPQREELASCARTLALQCAMK  
DPQSCALSALTCEKDHI AFEAA YQIAIDAAAGGMTHSQLFTIARYMELRGYPLRAFKLA  
SLAMSHLNLAYNQDTHPAINDVLWACALSHSLGKNEL AALIPLVVKSVHCATVLS DILRR  
CTVTAPGLAGIPGRSSGKLMSTDKAPLRQLLDATINAYINTTHSRLTHISPRHYGEFIE  
FLSKARETFLLPQDGH LQFAQFIDNLKQIYKGKKKLMLLV RERFG

>sp|Q9HAF1|EAF6\_HUMAN Chromatin modification-related protein MEAF6 OS=Homo sapiens  
GN=MEAF6 PE=1 SV=1

MAMHNKAAPPQIPDTRRELAELVKRKQELAETLANLERQIYAFEGSYLEDTQMYGNIIRG  
WDRYL TNQKNSNSKNDRRNRKFKEAERLFSKSSVTSAAAVSALAGVQDQLIEKREPGSGT  
ESDTS P D F H N Q E N E P S Q E D P E D L D G S V Q G V K P Q K A A S S T S S G S H H S H K K R K N K N R H R I D  
LKL NKKPRADY

>sp|Q56P03|EAPP\_HUMAN E2F-associated phosphoprotein OS=Homo sapiens GN=EAPP PE=1 SV=4

MNRLPDDYDPYAVEEPSDEEPALSSSEDEVDVLLHGTPDQKRKLIRECLTGESESSSEDE  
FEKEMEAE LNSTMKT MEDKLSS LGTSSSGNGKVATAPTRYDDIYFDSSEDE DRAVQV  
TKKKKKKQH K I P T N D E L L Y D P E K D N R D Q A W V D A Q R R G Y H G L G P Q R S R Q Q P V P N S D A V L N  
CPACMTTLC LDCQRHESYKTQYRAMFVMNCSINKEEV LRYKASENRKKRRVHKKMRNRE  
DAAEKAETDVEE IYHPVMCTECSTEVAVYDKDEVFHF FNV LASHS

>sp|075521|ECI2\_HUMAN Enoyl-CoA delta isomerase 2, mitochondrial OS=Homo sapiens GN=ECI2  
PE=1 SV=4

MAMAYLAWRLARRSCPSLQVTSFPVVQLHMNR TAMRASQKDFENSMNQVKLLKKDPGNE  
VKLKL YALYKQATEGPCNMPKPGVFDL INKAKWDAWNALGSLPKEAARQNYVDLVSSLS P

SLESSSQVEPGTDRKSTGFETLVVTSSEDGITKIMFNRPKKKNAINTEMYHEIMRALKAAS  
KDDSIITVLTGNGDYSSGNDLTNFTDIPPGVVEEKAKNNAVLLREFVGCIDFPKPLIA  
VVNGPAVGISVTLLGLFDVAVYASDRATFHTPFSHLGQSPEGCSSYTFPKIMSPAKATEML  
IFGKKLTAGEACAQGLVTEVPDSTFQKEVWTRLKAFAPLPPNALRISKEVIRKREREKL  
HAVNAEECNVLQGRWLSDECTNAVNVNLSRKS

>sp|Q5VYK3|ECM29\_HUMAN Proteasome-associated protein ECM29 homolog OS=Homo sapiens  
GN=ECM29 PE=1 SV=2

MAAAAASASQDELNQLERVFLRLGHAETDEQLQNIISKFLPPVLLKLSSTQEGVRKKVME  
LLVHLNKRKISRPKIQLPVETLLVQYQDPAAVSFVTNFTIIYVKMGYPRLPVEKQCELAP  
TLLTAMEGKPPQQQSLMHLIPTLFHMKYPVESSKSASPFNLAEPKTVQLLLDFMLDV  
LLMPYGYVLNESQRQNSSSAQGSSNSGGSGIPQPPGMSFYAAKRVIGDNPWTPEQL  
EQCKLGIVKFIKAEQVPELEAVLHLVIASSDTRHSVATAADLELKSQSLIDWNNPAIIN  
KMYKVYLGDIPLKTEGAVLKPELKRDPVSTRVKLKIVPHLLRSRQAAETFPANIQVVYD  
GLFGTNTNSKLRITLSLQFVHHICITCPEIKIKPLGPMLNGLTKLINEYKEDPKLLSMAY  
SAVGKLSSRMPHLFTKDIALVQQLFEALCKEEPETRLAIQEALSMVGAYSTLEGAQRTL  
MEALVASYLKPEVQVRQVAVKFASTVFPDHIPTSRYLALLAAGDPREEVHGEAQRVLR  
LPGRNRKESTSEQMPSFPEMYYYIQEKASHRMKTPVKYMTGTTVLPFNPAAFGEIVLYLR  
MCLAHSAGVVPTSQSLADMQDHAPAIGRYIRITLMSSGQMAPSSSNKSGETNPVQIYIGLL  
QQLLAGVGGLPVMYCLLEAVSVYPEKLATKFVDKTEWIKSLMNSKEEMRELAALFYSVV  
VSTVSGNELKSMIEQLIKTTKDNHSPEIQHGSLLALGFTVGRYLAKKKMRMSEQQDLERN  
ADTLPDQEELIQSATETIGSFLDSTPLLAIAACTALGEIGRNGPLIPSESGFTKLHL  
VESLLSRIPSSKETNKMKERAIQTLGYFPVGDGDFPHQKLLQGLMDSVEAKQIELQFTI  
GEAITSAAIGTSSVAARDAWQMTTEEYTPAGAKVNDVVPWVLDVILNKHIISPNNHVRQ  
AACIWLLSLVRKLSTHKEVKSHLKEIQSAFVSVLSENDELSDVASKGLGLVYELGNEQD  
QQELVSTLVETLMTGKRVKHEVSGETVVVFQGGALGKTPDGQGLSTYKELCSLASDLSQPD  
LVYKFMNLANHHAMWNSRKGAAGFNVIAIRAGEQLAPFLPQLVPRLYRYQFDPNLGIRQ  
AMTSIWNALVTDKSMVDKYLKEILQDLVKNLTSNMWRVRESSCLALNDLLRGRPLDDIID  
KLPEIWETLFRVQDDIKESVRKAAELALKTLKVCVKMCDPAKGAAGQRTIAALLPCLLD  
KGMMSTVTEVRALSINTLVKISKAGAMLPKPHAPKLIPALLESLSVLEPQVLNLYSLRAT  
EQEKAAMDSARLSAAKSSPMMETINMCLQYLDVSVLGELVPRLCELIRSGVGLGTKGGCA  
SVIVSLTTQCPQDLTPYSGKLSALLSGLTDRNSVIQKSCAFAMGHLVRTSRDSSTEKLL  
QKLNGWYMEKEEPIYKTSCALTIHAIGRYSPDVLKNHAKVLPFLGMHEIADEEKSEK  
EECNLWTEVWQENVPGSFGGIRLYLQELITITQKALQSQSWKMAQGAIAMASIAKQTSS  
LVPPYLGMITALLQGLAGRTWAGKEELLKAIACVVTACSAELEKSVPNQPSTNEILQAV  
LKECSKENVKYKIVASCAADILKATKEDRFQEFNSNIVPLIKNSLESSGVRTTKNEEE  
NEKEKELQLEYLLGAFESLGKAWPRNAETQRCYRQELCKLMCERLKLSTWKVQLGVLQSM  
NAFFQGLMLLEEEHADPEALAEILLETCKSITYSLENKTYSSVRTEALSVELLLKLEE  
SKQWECLTSECRVLLIESLATMEPDSRPELQEKAAALLKKTLENLE

>sp|Q9BQ95|ECSIT\_HUMAN Evolutionarily conserved signaling intermediate in Toll pathway,  
mitochondrial OS=Homo sapiens GN=ECSIT PE=1 SV=1

MSWVQATLLARGLCRAWGGTCGAALTGTSISQVPRRLPRGLHCSAAHSSEQSLVPSPE  
PRQRPTKALVPFEDLFGQAPGGERDKASFLQTVQKFAEHSVRKRGHIDFIYLALRKMREY  
GVERDLAVYNQLLNIFPKEVFRPRNIQRIFVHYPRQCEGIAVLEQMHGVMFNKETE  
FLLIQIFGRKSYPMKLVLRLKLWFPRFMNVNPFVPRDLPQDPVELAMFGLRHMEPDLSA



RVTIYQVPLPKDSTGAADPPQPHIVGIQSPDQQAALARHNPAPVVFVEGPFSLWLRNKC  
VYYHILRADLLPPEEREVEETPEEWNLYYPMQLDLEYVRSGWDNYEFDINEVEEGPVFAMC  
MAGAHDQATMAKWIQGLQETNPQLAQIPVVFRLAGSTRELQTSSAGLEEPPLPEDHQEED  
DNLQRQQQGS

>sp|Q9UNE0|EDAR\_HUMAN Tumor necrosis factor receptor superfamily member EDAR OS=Homo sapiens GN=EDAR PE=1 SV=1

MAHVGDTQTPLVPLVLSLMCSARAAYSNCGENEYNNQTTGLCQECPPCPGPEEPYLSC  
GYGTDKEDYGCVPCEAEKFSKGGYQICRRHKDCEGFFRATVLTGDMENDAECGPCLPGY  
YMLNRPRIYGMVCYSCLLAPNTKECVGATSGASANFPGTSGSSTLSPFQHAHKELSG  
QGHLLATALLIAMSTIFIMAIIVLIIMFYILKTKPSAPACCTSHPGKSVEAQVSKDEEKK  
EAPDNVVMFSEKDEFELKTATPAKPTKSENDASSENEQLLSRSVDSDEEPAPDKQGSPEL  
CLLSLVHLAREKSATSNKSAGIQSRRKKILDVYANVCGVVEGLSPTLFPDCLKTSRML  
SSTYNSEKAVVKTRHLAESFGLKRDEIGGMTDGMQLFDRISTAGYSIPELLTKLVQIER  
LDAVESLCADILEWAGVPPASQPHAAS

>sp|Q9BZQ6|EDEM3\_HUMAN ER degradation-enhancing alpha-mannosidase-like protein 3 OS=Homo sapiens GN=EDEM3 PE=1 SV=2

MSEAGGRGCGSPVQRRARWRLVAATAAFCLVSATSVWTAGAEPMSREEKQKLGNVLEMF  
DHAYGNVMEHAYPADELMLPTCRGRVRGQEPSRGDVEDDALGKFSLTIDSLDTLVVLNKT  
KEFEDAVRKVLRDVNLNDNVVSVFETNIRVLGGLGGHSLAIMLKEKGEYMQWYNDELL  
QMAKQLGYKLLPAFNTTSGLPYPRINLKFGIRKPEARTGTETDTCTACAGTLILEFAALS  
RFTGATIFEYARKALDFLWEKQRSSNLVGTINIHTGDWVRKDSGVGAGIDSYYEYLL  
KAYVLLGDDSFLERFNTHYDAIMRYISQPPLLLDVHIIHKPMLNARTWMDALLAFFPGLQV  
LKGDIRPAIETHEMLYQVIKKHNLPEAFTTDFRVHWAQHPLRPEFAESTYFLYKATGDP  
YYLEVGKTLIENLNKYARVPCGFAAMKDVRTGSHEDRMSFFLAEMFKYLYLLFADKEDI  
IFDIEDYIFTTEAHLPLWLSTTNQSSISKKNTTSEYTELDDSNFDWTCPTNTQILFPNDPL  
YAQSIREPLKNVVDKSCPRGIIRVEESFRSGAKPPLRARDFMATNPEHLEILKKMGVSLI  
HLKDGRVQLVQHAIQAASSIDAEDGLRFMQEMIELSSQQQKEQQLPPRAVQIVSHPPFGR  
VVLTAGPAQFGLDLSKHKETRGFVASSKPSNGCSELTNPEAVMGKIALIQRGQCMFAEKA  
RNIQNAGAIGGIVIDDNEGSSSDTAPLFQMGAGDKDITDIKIPMLFLFSKEGSIILDAIR  
EYEEVEVLLSDKAKDRDPEMENEQPSSENDSQNSGEQISSSSQEVLDVLDQESSEENSL  
NSHPESLSLADMDNAASISPSEQTSNPTENHETTNLNGECTDLNQLQEESQSEEDSNPN  
VSWGKKVQPIDSLADWNEDIEAFEMMEKDEL

>sp|O43854|EDIL3\_HUMAN EGF-like repeat and discoidin I-like domain-containing protein 3 OS=Homo sapiens GN=EDIL3 PE=1 SV=1

MKRSVAVWLLVGLSLGVPQFGKGDICDPNPCENGICLPLGLADGSFSCECPDGFTDPNCS  
SVVEVASDEEEPTSAGPCTPNPCHNGGTCEISEAYRGDTFIGYVCKCPRGFNGIHCQHNI  
NECEVEPCKNGGICTDLVANYSCECPGEFMGRNCQYKCSGPLGIEGGIISNQQTASSTH  
RALFGLQKWYPYARLNKKGLINAWTAAENDRWPIQINLQRKMRVTGVITQGAKRIGSP  
EYIKSYKIAYSNDGKTWAMYKVGKTNEDMVFRGNIDNNTPYANSFTPIKAQYVRLYPQV  
CRRHCTLRMELLGCELSGCSEPLGMKSGHIQDYQITASSIFRTLNDMFTWEPRKARLDK  
QGKVNAWTSGHNDQSQWLQVDLLVPTKVTGIITQGAKDFGHVQFVGSYKLAYSNDGEHWT  
VYQDEKQRKDKVFQGNFDNDTHRKNVIDPPIYARHIRILPWSWYGRITLRSSELLGCTEEE

>sp|Q8N7B9|EFCB3\_HUMAN EF-hand calcium-binding domain-containing protein 3 OS=Homo sapiens GN=EFCAB3 PE=2 SV=1

MAVSEIKPKLKLNPLTKVPI SHNKRDRDLPGSLQCQLQHKEKKLSASQMAAFQDAYNFFY  
KDKTGCIDFHGLMCTVAKLGMNLTKHDVYNELKCADIDRDGKVNFSDFIKVLT DKNLFLK  
AVVPEKETCLDLAGNPGILLFEILSRLETSALPRKSIIEIVSYFQRKFQHTGPGMLWSP  
YTMGYGKRTLKPDICTPPSSSMAAFANAARIAIMKEKDLKFLEELKRCNSGSDSPYSKI  
PIFPLFPNVDGVVMGKPFKDMQKLEMLRIKEPLHFFEDYFFHKRDWKTQAANIKSMDPAS  
GYSNNIFTIDQMLKKKQTCTVADATAIKQHVKRATDTYNLGIALEHRKEMLNLWQKIRGD  
LIGMSRNEFYDTFSTYTWSWNVCQELLSPKDLRLYDAYVNRNSSHNSRSSSSSDTSEC  
YTDSGRKRKRKGLKGFQQ

>sp|A8K855|EFCB7\_HUMAN EF-hand calcium-binding domain-containing protein 7 OS=Homo sapiens GN=EFCAB7 PE=1 SV=1

MAISPRSDATFSSQKSTPSESPRTKKFPLTEEEIFYMNCRAAYLTVFKSSLENIISKDQL  
YLALQHAGRNPSQKTINKYWTPQTAKLNFDDFCIILRKEKPTSKAELLKSFKQLDVNDG  
CILHTDLYKFLTKRGEKMTREEVNAIINLADVNADGKFDYIKFCKLYMTTNEQCLKTTLE  
KLEVDSKLMRHQFGNHIEGSPERDPSPVPKPSPKITRKTDPETFLNKGDTRSSLLSATRK  
FKTSVSFTVTMGANGNRNSKLMENLIKDWQHMQSKGCFLEEDGEIISHQYRMQIAQRS  
MVYLTIKPLNLSQVEGKPSPWLSVDTALYILKENESQANLQLVCFTELRNREVFGWTGEL  
GPGIYWLIPSTTGCLRKKIKPVTDEAQLVYRDETGELFLTKEFKSTLSDIFEVIDLDGN  
GLLSLEEYNFFELRTSGEKCEDAWAVCRENFDTKRNLTRQGFMDLNLMEANDREGDPC  
DLWVTLHSMGYNKALELTEACPFVIDIYAEKCKPKIKAVHMEACSGQLEKAICKSVLSNG  
DAKVMGDIYENIIVHTYSCDTWITSVIENKSDEKVIHISNELSKNCINNRLNIFAVEVG  
PKSTMVCQHVMPLNERQEWIYYCIYSLIS

>sp|P98172|EFNB1\_HUMAN Ephrin-B1 OS=Homo sapiens GN=EFNB1 PE=1 SV=1

MARPGQRWLKGKLVAMVVWALCRLATPLAKNLEPVSWSSLNPKFLSGKGLVIYPKIGDKL  
DIICPRAEAGRPYKYLYLVRPEQAAACSTVLDPNVLVTCNRPEQEIRFTIKFQEFSPN  
YMGLEFKKHHDYYITSTNSGLELENREGGVCRTMTKIIMKVGQDPNAVTPQLTTSR  
PSKEADNTVKMATQAPGSRGSLGSDGKHETVNQEEKSGPGASGGSSGDPDGGFNSKVAL  
FAAVGAGCVIFLLIIIFLTVLLKLRKRHRKHHTQRAAALSSTLASPKGSGTAGTEPS  
DIIIPLRTTENNYCPHYEKVSGDYGHPVYIVQEMPPQSPANIYYKV

>sp|Q14156|EFR3A\_HUMAN Protein EFR3 homolog A OS=Homo sapiens GN=EFR3A PE=1 SV=2

MPTRVCCCSALRPRYKRLVDNIFPEDPKDGLVKTDMEKLTIFYAVSAPEKLDRIQSYLAE  
RLSRDVRHRSGYVLIAMEALDQLLMACHSQSIKPFVESFLHMAKLLSEGEPKLQVLGT  
NSFVKFANIEEDTPSYHRRYDFFVSRFSAMCHSCHSDPEIRTEIRIAGIRGIQGVVRKTV  
NDELRA TIWEPQHMDKIVPSLLFNMQKIEEVDSRIGPPSSPSATDKEENPAVLAENCFRE  
LLGRATFGNMNNAVRPVFAHLDDHKLWDPNEFAVHCFKIIMYSIQAQYSHHVIQEILGHL  
DARKKDAPVRVAGIIQVLEAVATAAKGSIGPTVLEVFNTLLKHLRLSVEFEANDLQGGG  
VGSVNLNTSSKDNDEKIVQNAIIQTIGFFGSNLPDYQRSEIMMFIMGKVPVFGTSTHTLD  
ISQLGDLGTRRIQIMLLRSLMTVSGYKAKTIVTALPGSFLDPLSPSLMEDYELRQLVL  
EVMHNLMDRHDNRALRGIRIIPDVADLKIKREKICRQDTSFMKKNQQLYRHIYLGCKE  
EDNVQKNYELLYTSLALITIELANEEVVIDLIRLAIALQDSAINEDNLPMFHRCGIMAL  
VAAYLNFVSQMIAVPAFCQHVSKVIEIRTMEAPYFLPEHIFRDKCMLPKSLEKHEKDLYF  
LTNKIAESLGGSGYSVERLSVPYVPQVTDEDRLSRRKSIVDTVSIQVDILSNNVPSDDVV  
SNTTEITFEALKKAIDTSGMEEQEKEKRRLVIEKFQKAPFEEIAAQCESKANLLHDLRLAQ  
ILELTIRPPSPSGTLTITSGHAQYQSVPVYEMKFPDLGVY

>sp|O43281|EFS\_HUMAN Embryonal Fyn-associated substrate OS=Homo sapiens GN=EFS PE=1 SV=1

MAIATSTQLARALYDNTAESPQELSFRRGDVLRVLQREGAGGLDGWCLCSLHGQQGIVPA  
NRVKLLPAGPAPKPSLSPASPAQPGSPYPAPDHSNEDQEVYVPPPARPCPTSGPPAGPC  
PPSPDLIYKIPRASGTQLAAPRDALEVYDVPPTALRVPSSGPDYCPASFHPLTRVAPQP  
PGEDDAPYDVPLTPKPPAELEPDLEWEGGREPGPIYAAPSNLKRASALLNLYEAPPEELL  
ADGEGGGTDEGIYDVPLLGPEAPPSPPEPPGALASHDQDTLAQLLARSPPPPHRPRLPSAE  
SLSRRLPALPVPEAPSPSPVSPAPGRKGSIQDRPLPPPPRLPGYGGPKVEGDPEGRE  
MEDDPAGHHNEYEGIPMAEEYDYVHLKGMKAQGSRPPDQACTGDPELPERGMPAPQEAL  
SPGEPLVVSTGDLQLLYFYAGQCQSHYSALQAAVAALMSSTQANQPPRLFVPHSKRVVVA  
AHRLVFGDTLGRLAASAPLRAQVRAAGTALGQALRATVLAVKGAALGYPSSPAIQEMVQ  
CVTELAGQALQFTLLTSLAP

>sp|P17813|EGLN\_HUMAN Endoglin OS=Homo sapiens GN=ENG PE=1 SV=2

MDRGTLPLAVALLLASCSLSPTSLAETVHCDLQPVGPERGEVTTYTTSQVSKGCVAQAPNA  
ILEVHVLFLFPTGPSQLELTLQASKQNGTWPREVLLVLSVNSSVFLHLQALGIPLHLAY  
NSSLVTFFQEPGVNTELPSPFKTQILEWAAERGPITSAAELNDPQSILLRLGQAQGSLS  
FCMLEASQDMGRITLEWRPTALVRGCHLEGVAGHKEAHILRVLPGHSAGPRTVTVKVEL  
SCAPGDLDVILQGPYVSWLIDANHNMQIWTTEYSFKIFPEKNIRGFKLPDTPQGGL  
GEARMLNASIVASFVELPLASIVSLHASSCGRLQTSPAPIQTTPPKDTCSPPELLSLIQ  
TKCADDAMTLVLKKELVAHLKCTITGLTFWDPSCAEADRGDKFVLRSAYSSCGMQVSASM  
ISNEAVVNILSSSSPQRKKVHCLNMDLSFQLGLYLSPHFLQASNTIEPGQQSFVQVRVS  
PSVSEFLLQLDSCHLDLGPPEGTVELIQGRAAKGNCVSLSPSPEGDPFRFSLLHFYTVP  
IPKTGTLSCTVALRPKTGSQDQEVHRTVFMRLNIISPDLSGCTSKGLVLPVAVLGITFGAF  
LIGALLTAALWYIYSHTRSPSKREPVVAVAAPASSESSSTNHSIGSTQSTPCSTSSMA

>sp|P11161|EGR2\_HUMAN E3 SUMO-protein ligase EGR2 OS=Homo sapiens GN=EGR2 PE=1 SV=3

MMTAKAVDKIPVTLSGFVHQLSDNIYPVEDLAATSVTIFPNAELGGPFDQMNGVAGDGM  
NIDMTGEKRSLDLPYPSSFAPVSAPRNQFTFTYMGKFSIDPQYPGASCYPEGIINIVSAGI  
LQGVTSFASTTASSSVTSASPNTPLATGPLGVCTMSQTQPDLDHLYSPPPPPPPYSGCAGD  
LYQDPSAFLSAATTSTSSSLAYPPPSYSPKPDTPGLFPMIPDYPGFFPSQCQRDLHG  
TAGPDRKPFPCPLDTRLRVPPPLTPLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSA  
AAAAAAAAAYNPHHLPLRPILRPRKYPNRPSKTPVHERPYCPAEGCDRRFSRSDLTRH  
IRIHTGHKPFQCRICMRNFSRSDHLTTHIRHTGEKPFACDYCGRKFARSDERKRHTKIH  
LRQKERKSSAPSASVPASTASCSSGGVQPGGTLCSNSSLGGGPLAPCSSRTRTP

>sp|Q9NZN3|EHD3\_HUMAN EH domain-containing protein 3 OS=Homo sapiens GN=EHD3 PE=1 SV=2

MFSWLGTDDRRRKDPEVFQTVSEGLKKLYKSKLLPLEEHYRFHEFHSPALEDADFDNKPM  
VLLVGQYSTGKTTFIRYLLQDFPGMRIGPEPTTDSFIAMVQDMEGIIPGNALVVDPKK  
PFRKLNAFGNAFLNRFVCAQLPNPVLESISVIDTPGILSGEKQRISRGYDFAAVLEWFAE  
RVDRIILLFDAHKLDISDEFSEVIKALKNHEDKMRVVLNKADQIETQQLMRVYGALMWSL  
GKIVNTPEVIRVYIGSFWSHPLLPIDNRKLFEEEQDLFRDIQSLPRNAALRKLNDLIK  
ARLAKVHAYIISLKKEMPSVFGKDNKKELVNNLAEIYGRIEREHQISPGDFPNLKRMQ  
DQLQAQDFSKFQPLKSKLLEVDDMLAHDIAQLMVLVRQEESQRPIMVKGGAFTLHG  
PFGHGYGEGAGEGIDAEWVWARDKPMYDEIFYTLSPVDGKITGANAKKEMVRSKLPNSV  
LGKIWLADIDKDGMLDDDEFALANHLIKVKLEGHELPNELPAHLLPPSKRKVAE

>sp|O14681|EI24\_HUMAN Etoposide-induced protein 2.4 homolog OS=Homo sapiens GN=EI24 PE=1 SV=4

MADSVKTFQLDLARGIKDSIWGICTISKLDARIQQKREEQRRRRASSVLAQRRRAQSIERK

QESEPRIVSRIFQCCAWNGGVWFSLLLFFYRVFIPVLQSVTARIIGDPSLHGDVWSWLEF  
FLTSIFSALWVLPLFVLSKVVNAIWFQDIADLAFEVSGRKPHFPSPSVSKIADMLFNLLL  
QALFLIQGMFVSLFPIHLVGQLVSLHMSLLYSLYCFEYRWFNKGIEMHQRLSNIERNWP  
YYFGFGLPLAFLTAMQSSYIISGCLFSILFPLFIISANEAKTPGKAYLFQLRLFSLVVFL  
SNRLFHKTVYLQSALSSSTSAEKFSPSPHPSPAKLKATAGH

>sp|Q7L2H7|EIF3M\_HUMAN Eukaryotic translation initiation factor 3 subunit M OS=Homo sapiens GN=EIF3M PE=1 SV=1

MSVPAFIDISEEDQAAELRAYLKSKEAEISEENSEGGLHVDLAQIIIEACDVCLKEDDKDV  
ESVMNSVVSLLLILEPDKQEALIESLCEKLVKFREGERPSRLQLLSNLFHGMDKNTPV  
YTVYCSLIKVAASCGAIQYIPTELDQVRKWIWDWNLTTTEKKHTLLRLLYEALVDCKKSDA  
ASKVMVELLSYTEDNASQARVDAHRCIVRALKDPNAFLFDHLLTLKPVKFLEGELIHD  
LTIFVSAKLASYVKFYQNNKDFIDSLGLLHEQNMAKMRLTFMGMAVENKEISFDTMQQE  
LQIGADDVEAFVIDAVRTKMVYCKIDQTRKVVVSHSTHRTFGKQWQQLYDTLNAWKQN  
LNKVKNSLLSLSDT

>sp|B5ME19|EIF3CL\_HUMAN Eukaryotic translation initiation factor 3 subunit C-like protein OS=Homo sapiens GN=EIF3CL PE=3 SV=1

MSRFFTTGSDSESSLSGEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKDRFEEL  
TNLIRTIRNAMKIRDVTKLEEFELLGKAYGAKSIVDKEGVPRFYIRILADLEDYLNEL  
WEDKEGKKMKNNAKALSTLRQKIRKYNRDFESHITSYKQNPESADEDAEKNEEDSEG  
SSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDDEDEDESEDEDEDWDTGSTSSDS  
DSEEEEGKQTALASRFLKKAPTDEDKAAEKKREDKAKKKHDKSKRLDEEEEDNEGG  
EWERVGGVPLVKEKPKMFAKTEITHAVV IKKLNEILQARGKKGTDRAAQIELLQLLVQ  
IAAENNLGEGVIVIKIFNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIF  
VGENILEESENHNADQPLRVGCILTLVERMDEEFTKIMQNTDPHSQEYVEHLKDEAQV  
CAIIERVQRYLEEKGTTEEVCRIYLLRILHTYKFDYKAHQRLTPEGSSKSEQDQEN  
EGEDSAVLMERLCKYIYAKDRDTRITCAILCHYHHLHSRWYQARDLMLMSHLQDNIQ  
HADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERN  
QEQEKVERRRQVPFHLHINLELLECVYLVSAMLLEIPYMAAHESDARRRMISKQFHHQLR  
VGERQPLLGPPEMREHVVAASKAMKMGDWKTCHSFIINEKMNGKVWDLFPEADKVRTML  
VRKIQEESLRTYLFTYSSVYDSISMETLSDMFELDLPTVHSIISKMIINEELMASLDQPT  
QTVVMHRTEPTAQNLALQLAEKLGSLVENNERVFDHKQGTYYGGYFRDQKQDGYRKNEGYM  
RRGGYRQQQSQTAY

>sp|O00472|ELL2\_HUMAN RNA polymerase II elongation factor ELL2 OS=Homo sapiens GN=ELL2 PE=1 SV=2

MAAGGTGGLREEQRYGLSCGRLGQDNITVLHVKLTTETAIRALETYQSHKNLIPFRPSIQF  
QGLHGLVKIPKNDPLNEVHNFNFYLSNVGKDNPGGSFDCIQQTFSSSGASQLNCLGFIQD  
KITVCATNDSYQMTREMTQAEESRNRSTKVIKPGGPVVGKRVQIRKAPQAVSDTVPER  
KRSTPMNPANTIRKTHSSSTISQRPYRDRV IHLALAKAYKKPELLARLQKQGVNPKDKNS  
LGAILQQVANLNSKDLSTLKYVFKELQRDWPGYSEIDRRSLESVLSRKLNPSQNAAGT  
SRSESPVCSSRDVSSPQKRLLDSEFIDPLMNKKARISHLTNRVPPTLNHGLNPTSEKSA  
AGLPLPPAAAAIPTPPPLPSTYLPISHPPQIVNSNSNSPSTPEGRGTQDLPVDSFSQND  
IYEDQDKYTSRTSLETLPGPSVLLKCPKPMEEHNSMSHKSSKKSKKHKEKDQIKKHDI  
ETIEEKEDLKREEEIAKLNNSSPNSSGGVKEDCTASMEPSAIELPDYLIKYYIAIVSYEQ  
RQNYKDDFNAEYDEYRALHARMETVARRFIKLDQRKRLSPGSKEYQNVHEEVLQEYQKI

KQSSPNYHEEKYRCEYLHNKLAHIKRLIGFDQQAESWS

>sp|Q8N336|ELMD1\_HUMAN ELMO domain-containing protein 1 OS=Homo sapiens GN=ELMOD1 PE=2 SV=3

MKHFLRMLIQVCLFYCKFLWRCLKFVMRKLTGRCELQRICYNTKPGASRTMKIETSLRD  
SKSKLLQTSVSVHPDAIEKTIEDIMELKKINPDVNPQLGISLQACLLQIVGYRNLIADVE  
KLRREAYDSNPQHEEMLLKLWKFLKPNTPLESRISKQWCEIGFQGDDPKTDFRGMGLLG  
LYNLQYFAERDATAAQVLSDSLHPKCRDITKEEISKFSKAWEKKRMDKAIGYSFAIVG  
INITDLAYNLLVSGALKTHFYNTAPEAPTLSHFQQTFCYLMHEFHKFWIEEDPMDIMEFN  
RVREKFRKRIIKQLQNPDMALCPHFAASEGLNM

>sp|Q8TE02|ELP5\_HUMAN Elongator complex protein 5 OS=Homo sapiens GN=ELP5 PE=1 SV=2

MTPSEGARAGTGREMLDSLLALGGLVLLRDSVEWEGRSLLKALVKKSALCGEQVHILG  
CEVSEEEFREGFSDINNRLVYHDFFRDPLNWSKTEEAFPGGPLGALRAMCKRTDPVPVT  
IALDSLWLLRLPCTTLCQVLHAVSHQDSCPGDSSSVGKVSVLGLLHEELHGPVPGAL  
SSLAQTEVTLGGTMGQASAHILCRRPRQRPTDQTQWFSILPDFSLDLQEGPSVESQPYS  
PHIPPVDPPTHLTFNLHLSKKEREARDSLILPFQFSSEKQALLRPRPGQATSHIFYEPD  
AYDDLQEDPDDDLDI

>sp|Q902F9|EN113\_HUMAN Endogenous retrovirus group K member 113 Env polyprotein OS=Homo sapiens GN=HERVK\_113 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAAANYTYWAYVPFPPLIRAVTWMD  
NPIEIYVNDVWVPGPTDDCCPAKPEEEGMMINISIGYRYPPICLGRAPGCLMPAVQNW  
VEVPTVSPISRFTYHMSGMLRPRVNYLQDFSYQRSKFRPKGKPCKEIPKESKNTEV  
LVWEECVANSAVILQNEFGTLIDWAPRGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLD  
KHKHKKLQSFYPWEWGEKGISTARPKIISPVSYPEHPWRLTVASHHIRIWSGNQTLET  
RDRKPFYITDNLSSLTVPLQSCVKPPYMLVGNIVIKPDSQTITCENCRLTCTIDSTFNW  
QHRILLVRAREGVWIPVSMRPEASPSVHILTEVLKGVNRSKRIFITLIIVIMGLIIV  
TATAAVAGVALHSSVQSVNFVNDWQNNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRL  
MSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRCHLQGREDNLTLDISKLEQIFEA  
SKAHLNLVPGTEAIAGVADGLANLNTVTWVKTIGSTTIINLILVCLFCLLLVYRCTQQ  
LRRSDHRRERAMMTMVLSKRKGGNVGKSKRDQIVTVSV

>sp|Q9N2J8|ENH3\_HUMAN HERV-H\_2q24.1 provirus ancestral Env polyprotein OS=Homo sapiens PE=2 SV=1

MILAGRAPSNTSTLMKFYSLLLYSLLFSFPFLYHPLPLPSYLHHTINLTHSLPAASNPSL  
ANNCWLCISLSSAYIAVPTLQTDRTSPVSLHLRTSFNSPHLYPPEELIYFLDRSSKTS  
PDISHQPAAALLHIYLNLSPIINSTPPIFGPLTTQTTIPVAAPLCISRQRPTGIPLGNI  
SPSRCSFTLHLQSPTHVTETIGVFQLHIIDKPSINTDKLKNVSSNYCLGRHLPYISLHP  
WLSPCSDSPPRPSSCLLTPSPQNNSERLLVDTQRFLIHENRTSSSMQLAHQSPLQPL  
TAAALAGSLGVWVQDTPFSTPSHPFSLHLQFCLTQGLFFLCGSSTYMCLPANWTGTCTLV  
FLTPKIQFANGTKELPVPLMTLTPQKRVIPLIPLMVGLGLSASTIALSTGIAGISTSVTT  
FRSPSNDFSASITDISQTLVLAQVDSLAAVVLQNRRLGLSILLNECCFYLNQSGLV  
YENIKKLKDRQKLANQASNYAESPWALSNNWMSWVLPILSPLIPIFLLLLFGPCIFHLVS  
QFIQNRIQAITNHSI

>sp|Q9NX77|ENK13\_HUMAN Endogenous retrovirus group K member 13-1 Env polyprotein OS=Homo sapiens GN=ERVK13-1 PE=2 SV=2

MWTVPSFTNDSYQVYNVSTNSFQLLTVKRTPEAWRVPLTTKTNKTKGLPDCPKKPTNG  
PFIVTSILWDNCNAPKAVVLQTLAMGIVIDWAPKGYWQDCSSKNTLCSEFIYSLDYIEH  
GWQSYTMRQRVSPYPFKWMDTGIAAPRPKI IHPFFTPEHPELWKLAAALSGIKIWNTTYQ  
LLRTKTKTPTFNITLISEWVPIRSCVKPPYMLLVGNIIMPPDAQTIECHNCKLFTCIDA  
TFNPPTSILLVRAREGVWIPVSLHRPWESSPSIHIVNEVLKDILKRTKRFIFTLIAVLG  
LLAVTATAATAGVAIRSSVQTAHYVEACQKNSSRLWNSQAQIDQKLANQINDLRQSVTWL  
GDRVMNLQHRMQLQCDWNTSDYCITPYAYNQDQHSWENVRHLKAWDDNLTLDISQLKEQ  
IFEASQAHLSTVPGSHIFEGITKQLPDFNPFKWLKPVRGSLLLLALLILVCLCCLLVCR  
CL

>sp|P61565|ENK21\_HUMAN Endogenous retrovirus group K member 21 Env polyprotein OS=Homo  
sapiens GN=ERVK-21 PE=1 SV=1

MHPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEQMKLPSTKKAEPPTWAQLKKLTQLAT  
KYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAAANYTNWAYVPFPPLIRAVTWMDN  
PIEVYVNDVWVHGPIIDRCPAKPEEEGMMINISIGYHYPPICLGRAPGCLMPAVQNWLV  
EVPTVSPISRFTYTMVSGMSLRPRVNYLQDFSYQSLKFRPKGKPCPKEIPKESKNTEVL  
VWEECVANSVILQNEFGTII DWAPRGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLDK  
HKHKKLQSFYPWEWGEKGISTPRPKIISPVS GPEHPELWRLTVASHHIRIWSGNQTL ETR  
DRKPFYTVDLNSSLTVPLQSCVKPPYMLLVGNIVIKPDSQTITCENCRL LTCIDSTFNWQ  
HRILLVRAREGVWIPVSM DRPWEASPSIHILTEVLKGVLNRSKRFIFTLIAVIMGLIAVT  
AMAAVAGVALHSFVQSVNFVNDWQKNSTR LWSQSSIDQKLANQINDLRQTVIWMGDRLM  
SLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLKEQIFEAS  
KAHLNLVPGTEA IAGVADGLANLNPVTWVKTIGSTTIINLILILVCLFCLLLVCRCTQQL  
RRDS DHRERAMMTMVLSKRKG GNVGKSKRDQIVTVSV

>sp|P61567|ENK7\_HUMAN Endogenous retrovirus group K member 7 Env polyprotein OS=Homo  
sapiens GN=ERVK-7 PE=2 SV=1

MVTPVTWMDNPIEIVYVNDVWVPGPIIDRCPAKPEEEGMMINISIGYRYPICLGRAPGC  
LMPAVQNWLV E VPTVSPISRFTYH MVSGMSLRPRVNYLQDFSYQSLKFRPKGKPCPKEI  
PKESKNTEVLVWEECVANS AVILQNEFGTII DWAPRGQFYHNCSGQTQSCPSAQVSPA V  
DSDLTESLDKHKHKKLQSFYPWEWGEKRISTPRPKIISPVS GPEHPELWRLTVASHHIRI  
WSGNQTL ETRDCKPFYTI DLNSSLTVPLQSCVKPPYMLLVGNIVIKPDSQTITCENCRL L  
SCIDSTFNWQH RILLVRAREGVWIPVSM DRPWEASPSVHILTEVLKGVLNRSKRFIFTLI  
AVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTR LWSQSSIDQKLANQINDLRQ  
TVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDIS  
KLKEQIFEASKAHLNLVPGTEA IAGVADGLANLNPVTWVKTIGSTTIINLILILVCLFCL  
LLVCRCTQQLRRDS DHRERAMMTMAVLSKRKG GNVGKSKRDQIVTVSV

>sp|Q9UKH3|ENK9\_HUMAN Endogenous retrovirus group K member 9 Env polyprotein OS=Homo  
sapiens GN=ERVK-9 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAAANYTNWAYVPFPPLIRAVTWMD  
NP I EVYVNDVWVPGPIIDRCPAKPEEEGMMINISIGYRYPICLGRAPGCLMPAVQNWLV  
EVPIVSPICRFTYH MVSGMSLRPRVNYLQDFSYQSLKFRPKGKPCPKEIPKESKNTEVL  
VWEECVANS AVILQNEFGTII DWTPQGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLDK  
HKHKKLQSFYPWEWGEKGISTPRPKIISPVS GPEHPELWRLTVASHHIRIWSGNQTL ETR  
DRKPFYTVDLNSSLTLPLQSCVKPPYMLLVGNIVIKPDSQTITCENCRL LTCIDSTFNWQ

HRILLVRAREGVWIPVSMRDPWEASPSIHILTEVLKGVLNRSKRFI FTLIAVIMGLIAVT  
ATAAVAGVALHSSVQSVNFVNDGQKNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRLM  
SLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLKEQIFEAS  
KAHLNLVPGTEAIAGVADGLANLNPVTWVKTIGSTTIINLILVLVCLFCLLLVCRCTQQL  
RRSDHHRERAMMTMAVL SKRKGGNVGKSKRDQIVTVSV

>sp|Q9Y5L3|ENTP2\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 2 OS=Homo sapiens  
GN=ENTPD2 PE=1 SV=1

MAGKVRSLLPPLLLAAAGLAGLLLCVPTRDVREPPALKYGIVLDAGSSHTSMFIYKWPA  
DKENDTGIVGQHSSCDVPGGGISSYADNPSGASQSLVGCLEQALQDVPKERHAGTPLYLG  
ATAGMRLNLNTP EASTSVLMAVTHLTQYPPDFRGARILSGQEEGVFGWVTANYLLENF  
IKYGVWGRWFRPRKGTLGAMDLGGASTQITFETTSPAEDRASEVQLHLYGQHRYRVYTHSF  
LCYGRDQVLQRLLASALQTHGFHPCWPRGFSTQVLLGDVYQSPCTMAQRPNFNSSARVS  
LSGSSDPHLCRDLVSGLFSFSSCPFSRCSFNGVFQPPVAGNFVAFSAFFYTVDFLRTSMG  
LPVATLQQLEAAAVNVCNQTWAQLQARVPGQARLADY CAGAMFVQQLSRGYGFDERAF  
GGVIFQKKAADTAVGWALGYMLNLNLIPADPPGLRKGTDFSSWVVL LLLFASALLAALV  
LLL RQVHSAKLPSTI

>sp|Q9Y227|ENTP4\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 4 OS=Homo sapiens  
GN=ENTPD4 PE=1 SV=1

MGRIGISCLFPASWHFSISPVGCPRI LNTNLRQIMVISVLAAAVSLLYFSVVIIRNKYGR  
LTRDKKFQRYLARVTDIEATDTNPNVNYGIVVDCSSGSRVFVYC WPRHNGNPHDLLDI  
RQMRDKNRKPVMKIKPGISEFATSPEKVS DYISPLLNF AAHVPRAKHETPLYILCTA  
GMRILPESQKKAILEDLLTDIPVHFDFLFS DSHAEVISGKQEGVYAWIGINFVLGRFEHI  
EDDDEAVVEVNIPGESSESAIVRKRTAGILDMGGVSTQIAYEVPKTVSFASSQQUEEVAKN  
LLAEFNLGCDVHQTEHVYRVYVATFLGFGGNAARQRYEDRIFANTIQKNRLLGKQTGLTP  
DMPYLDPCLPLDIKDEIQNGQTIYLRGTGDFDLCRETIQPFMKN TNETQTSLNGVYQPP  
IHFQNSEFYGFSEFYCTEDVLRMGGDYNAAKFTKAAKD YCATKWSILRERFDRGLYASH  
ADLHRLKYQCFSAWMFEVFHRGFSFPVNYKSLKTALQVYDKEVQWTLGAILYRTRFLPL  
RDIQQEAFRASHTHWRGVSFVYNHYLFSGCFLVLLAILLYLLRLRRIHRRTPRSSSAAA  
LWMEEGLPAQNAPGTL

>sp|O75354|ENTP6\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 6 OS=Homo sapiens  
GN=ENTPD6 PE=1 SV=3

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYI  
KWHRATATQAFFSITRAAPGARWGQQAHSPLGTAADGHEVFY GIMFDAGSTGTRVHVFQF  
TRPPRETPTLTHETFKALKPGLSAYADDVEKSAQGIRELLD VAKQDIPDFFWKATPLVLK  
ATAGLRLLPGEKAQKLLQKVKKVFKASPFLVGDDCVS IMNGTDEGVSAWITINFLTGSLK  
TPGGSSVGMLDLGGGSTQIAFLPRVEGTLQASPPGYLTALRMFNRTYKLYSYSYLGLGLM  
SARLAILGGVEGQPAKD GKELVSPCLSPSFKGEWEHA ETVRVSGQKAAASLHELCAARV  
SEVLQNRVHRTEEVKHVDFYAFSYYYDLAAGVGLIDA EKGGSLVVGDFEIAAKYVCRTLE  
TQPQSSPFSMDLTYVSLLLQEFGFPRSKVLKLRKIDNVETSWALGAIFHYIDSLNRQK  
SPAS

>sp|P16452|EPB42\_HUMAN Erythrocyte membrane protein band 4.2 OS=Homo sapiens GN=EPB42  
PE=1 SV=3

MGQALGIKSCDFQAARNNEEHHTKALSSRRLFVRRGQPFTIILYFRAPVRAFLPALKKVA  
LTAQTGEQPSKINRTQATFPISSLGDRKWSAVVEERDAQSWTISV TTPADAVIGHYSLL

LQVSGRKQLLLGQFTLLFNPWNREDAVFLKNEAQRMEYLLNQGLIYLGTA DCIQAESWD  
FGQFEGDV IDLSRLSSKDKQVEKWSQPVHVARVLGALLHFLKEQRVLP TPQTQATQEGA  
LLNKRGRGVPILRQWL TGRGRPVYDGQAWVLA AVACTVLRCLGIPARVVTTFASAQGTGG  
RLLIDEYYNEEGLQNGEGQRGRIWIFQTSTECWMTRPALPQGYDGWQILHPSAPNGGGVL  
GSCDLVPVRAVKEGTLGLTPAVSDLFAA INASCVVWKCCEDGTLELTD SNTKYVGNNIST  
KGVGSDRCEDITQNYKYPEGSLQEKEVLERVEKEKMEREKDNGIRPPSLETASPLYLLLK  
APSSLPLRGDAQISVTLVNHSEQEKA VQLAIGVQAVHYNGVLA AKLWRKKLHLT SANLE  
KIITIGLFFSNFERNPPENTFLRLTAMATHSES NLSCFAQEDIAICRPHLA IKMPEKAEQ  
YQPLTASVSLQNSLDAPMEDCVISILGRGLIHRERSYFRSVWPENTMCAKFQFTPTHVG  
LQRLTVEVDCNMFQNL TNYKSVTVVAPELSA

>sp|043921|EFNA2\_HUMAN Ephrin-A2 OS=Homo sapiens GN=EFNA2 PE=1 SV=1

MAPAQRPLLPLLLLLPLPPPFARAEDAARANS DRYAVYWNRSNPRFHAGAGDDGGGYT  
VEVSINDYLDIYCPHYGAPLPPAERMEHYVLYMVNGEGHASCDHRQRGFKRWECNRPAAP  
GGPLKFSEKFQLFTPFLSGFEFRPGHEYYYISATPPNAVDRPCLRLKVYVRPTNETLYEA  
PEPIFTSNNSCSPGGCRLFLSTIPVLWTL LGS

>sp|P49411|EFTU\_HUMAN Elongation factor Tu, mitochondrial OS=Homo sapiens GN=TUFM PE=1 SV=2

MAAATLLRATPHFSGLAAGRTFLLQGLLRLLKAPALPLLCRGLAVEAKKTYVRDKPHVNV  
GTIGHVDHGKTTLTAAITKILAEGGGA KFKKYEEIDNAPEERARGITINAAHVEYSTAAR  
HYAHTDCPGHADYVKNMITGTAPLDGCILVVAANDGPMPQ TREHLLLARQIGVEHV VVVYV  
NKADAVQDSEMVLELEIRELLTEFGYKGEETPVIVGSALCALEGRDPELGLKSVQKLL  
DAVDTYIPVPARDLEKPFLLPVEAVYSVPGRGT VVTGT LERGILKKGDECELLGHSKNIR  
TVVTG IEMFHKSLERA EAGDNLGALVRGLKREDLRRLVMVKPGSIKPHQKVEAQVYILS  
KEEGGRHKPFVSHFMPVMFSLTWD MACRIILPPEKELAMPGEDLKFNLI LRQPMILEKGQ  
RFTLRDGNRTIGTGLVTNTLAMTEEEKNIKWG

>sp|Q8IUX8|EGFL6\_HUMAN Epidermal growth factor-like protein 6 OS=Homo sapiens GN=EGFL6 PE=2 SV=1

MPLPWSLALPLLLSWVAGGFGNAASARHHGLLASARQPGVCHYGTKLACCYGWRNSKGV  
CEATCEPGCKFGECVGNPKRCRCPGYTGKTCSDVNECGMKPRPCQHRCVNTHGSYKFCF  
LSGHMLMPDATCVNSRTCAMINCQYSCEDTEEGPQCLCPSSGLRLAPNGRDCLDIDECAS  
GKVICPYNRRCVNTFGSYCKCHIGFELQYISGRYDCIDINECTMDSHTCSHHANCNTQ  
GSFKCKCKQGYKGNGLRCSAIPENSVKEVLRAPGTIKDRIKKLLAHKNSMKKKAKIKNVT  
PEPTRTPTPKVNLPFNYYEIVSRGGNSHGGKKGNEEKMEGLEDEKREEKALKNDIEER  
SLRGDVFFPKVNEAGEFGLILVQRKALTSKLEHKDLNISVDCSFNHGICDWKQDREDDFD  
WNPADRDNAIGFYMAVPALAGHKD IGRLLKLLPDLQPQSNFCLLFDYRLAGDKVGKLRV  
FVKNSNNALAWEKTTSEDEKWKTKIQLYQGT DATKSI IFEAERGKGKTGEI AVDGVLLV  
SGLCPDSLLSVDD

>sp|Q9UHF1|EGFL7\_HUMAN Epidermal growth factor-like protein 7 OS=Homo sapiens GN=EGFL7 PE=1 SV=3

MRGSEQVLLMWLLVLAVGGTEHAYRPGRRC A VRAHGDPVSESFVQRVYQPFLTTCDGHR  
ACSTYRTIYRTAYRRSPGLAPARPRYACCPGWKRTSGLPGACGAAICQPPCRNGGSCVQP  
GRCRCPAGWRGDTQSDVDECSARRGGCPQRCVNTAGSYWCQCWEGHSLSADGTLCVPKG  
GPPRVAPNPTGVDSAMKEEVQRLQSRVDLLEEKQLVLAPLHSLASQALEHGLPDPGSLL  
VHSFQQLGRIDSLSEQISFLEEQLGSCSCKKDS



>sp|P01133|EGF\_HUMAN Pro-epidermal growth factor OS=Homo sapiens GN=EGF PE=1 SV=2

MLLTLIILLPVVSKFSFVSLAPQHWSCPEGLTAGNGNSTCVGPAPFLIFSHGNSIFRID  
TEGTNYEQLVVDAGVSVIMDFHYNEKRIYWVDLERQLLQRVFLNGSRQERVCNIEKNVSG  
MAINWINEEVIWSNQQEGIIITVDMKGNNSHILLSALKYPANVAVDPVERFIFWSSEVAG  
SLYRADLDGVGVKALLETSEKITAVSLDVLDKRLFWIQYNREGSNSLICSCDYDGGSVHI  
SKHPTQHNLFAMSLFGDRIFYSTWKMKTIIWANKHTGKDMVRINLHSSFVPLGELKVVHP  
LAQPKAEDDTWEPEQKLCKLRKGNCSSSTVCGQDLQSHLCMAEGYALSRRDKYCEDVNEC  
AFWNHGCTLGCKNTPGSYYCTCPVGFVLLPDGKRCHQLVSCPRNVSECSHDCVLTSEGPL  
CFCPEGSVLDERDGKTCSGCSPDNGGCSQLCVPLSPVSWECDCFPGYDLQLDEKSCAASG  
PQPFLLFANSQDIRHMHFDGTDYGTLLSQQMGMVYALDHPVENKIYFAHTALKWIERAN  
MDGSQRERLIEEGVDVPEGLAVDWIGRRFYWTDRGKSLIGRSDLNGKRSKIITKENISQP  
RGIIVHPMAKRLFWTDTGINPRIESSQLGLRLVIASSDLIWP SGITIDFLTDKLYWCD  
AKQSVIEMANLDGSKRRRLTQNDVGHPFAVAVFEDYVWFSDWAMPVSMRVNKRGTGKDRVR  
LQGSMLKPSSLVVVHPLAKPGADPCLYQNGGCEHICKRLGTAWCSCREGFMKASDGKTC  
LALDGHQLLAGGEVDLKNQVTPDLILSKTRVSEDNITESQHMLVAEIMVSDQDDCAPVGC  
SMYARCISEGEDATCCLKGFAGDGKLCSDIDECEMGVPVCPPASSKCINTEGGYVCRCS  
EGYQGDGIHCLDIDECQLGEHSCGENASCTNTEGGYTCMCAGRLSEGLICPDSTPPPHL  
REDDHHYSVRNSDSECLSHDGYCLHDGVCMYIEALDKYACNCVVG YIGERCQYRDLKWW  
ELRHAGHGQQQKVIIVAVCVVVLVMLLLSLWGAHYIRTQKLLSKNPKNPYEESSRDVRS  
RRPADTEDGMSSCPQWFVVIKEHQDLKNGGQPVAGEDGQAADGSMQPTSWRQEPQLCGM  
GTEQG CWIPVSSDKGSCPQVMERSFHMP SYGTQTLEGGVEKPHSLLSANPLWQQRALDPP  
HQMELTQ

>sp|Q9GZT9|EGLN1\_HUMAN Egl nine homolog 1 OS=Homo sapiens GN=EGLN1 PE=1 SV=1

MANDSGPGPGSPSERDRQYCELCGKMENLLRCSRCSFYCCKEHQRQDWKKHKLVCQG  
SEGALGHGVGPHQHSPPAAVPPPRAGAREPRKAAAARRDNASGDAAGKVKAKPPADP  
AAAASPCRAAAGGQS AVAAEAEPGKEEPPARSSLFQEKANLYPPSNTPGDALSPGGGLR  
PNGQTKPLPALKLAL EYIVPCMNKHGICVVD DFLGKETGQQIGDEV RALHDTGKFTDGQL  
VSQKSDSSKDIRGDKITWIEGKEPGCETIGLLMSSMDDLIRHCNGKLSYKINGRTKAMV  
ACYPGNGTGYVRHVDNPNGDGRCVTCIYYLNKDWD AKVSGGILRIFPEGKAQFADIEPKF  
DRLLFFWSDRRNPHEVQPAYATRYAITVWYFDADERARAKVKYLTGEKGV RVELNKPSDS  
VGKDV F

>sp|P18146|EGR1\_HUMAN Early growth response protein 1 OS=Homo sapiens GN=EGR1 PE=1 SV=1

MAAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMMLLSNGAPQFLGAAGAPEGSGS  
NSSSSSSGGGGGGGGSSSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETS  
YPSQTTRLPPITYTGRFSLEPAPNSGNTLWPEPLFSLVSLVSMTNPPASSSSAPSPAAS  
SASASQSPPLSCAVPSNDSSPIYSAAPTFTPTNTDIFPEPQSQA FPGSAGTALQYPPPAY  
PAAKGGFQVPMIPDYLFPQQQDGLG LTPDQKPFQGLSRTQQPSLTPLSTIKAFATQSG  
SQDLKALNTSYQS QLIKPSRMRYPNRPSKTPPHERPYACPVESCDRRFSRSD ELTRHIR  
IHTGQKPFQCRICMRNFSRSDHLTTHIRHTGKPFACDICGRKFARSDERKRHTKIHLR  
QKDKKADKSVVASSATSSLSSYSPVATSYSPVTTSYSPATTSYSPVPTSFSSPGSS  
TYPSPVHSGFPSPSVATTYSSVPPAFPAQVSSFPSSAVTNSFSASTGLSDMTATFSPRTI  
EIC

>sp|Q8NDI1|EHBP1\_HUMAN EH domain-binding protein 1 OS=Homo sapiens GN=EHBP1 PE=1 SV=3

MASVWKRLQRVGKHASKFQFVASYQELMVECTKKWQPKLVVVWTRRSRRKSSKAHSWQP

GIKNPYRGVVVWPVENIEITVTLFKDPHAEFEDKEWTFVIENESPSGRRKALATSSIN  
MKQYASPMPTQTDVKLKFPLSKKVVSAALQFSLSCIFLREGKATDEDMQSLASLMSMKQ  
ADIGNLDDFEEDNEDDDENRVNQEEKAAKITEIVNQLNALSSLDQDDCIKANMRSK  
SASSSEELINKLNLDEAEKDLATVNSNPFDDPDAELNPFDPDSEEPITETASPRKTE  
DSFYNSYNPFKEVQTPQYLNPFDEPEAFVTIKDSPPQSTKRKNIRPVDMSKYLYADSSK  
TEEEELDESMPFYEPKSTPPPNLNVNPVQELETERRVKRAKAPPPVLSPKTGVLNENTVS  
AGKDLSTSPKPSIPSPVLGRKPNASQSLLVWCKEVTKNYRGVKITNFTTSWRNGLSFCA  
ILHHFRPDLIDYKSLNPQDIKENNKKAYDGFASIGISRLEPSDMVLLAIPDKLTVMTYL  
YQIRAHFSGQELNVVQIEENSSKSTYKVGNYETDTNSSVDQEKFYAELSDLKREPELQQP  
ISGAVDFLSQDDSVFVNDSGVGESESEHQTDPDHLSPSTASPYCRRTKSDTEPQKSQQSS  
GRTSGSDDPGICSNSTDSTQAQVLLGKKRLLKAETLELSDLYVSDKKKDMSPFICEETDE  
QKLQTLDIGSNLEKEKLENSRSLECRSDPESPIKKTSLSPTSKLGYSYSRDLDLAKKKHA  
SLRQTESDPDADRTTLNHADHSSKIVQHRLLSRQEELKERARVLEQARRDAALKAGNKH  
NTNTATPFCNRQLSDQQDEERRRQLRERARQLIAEARGVKMSELPSYGEMAAEKLKERS  
KASGDENDNIEIDTNEEIPGEFVVGDEL TNLENDLTPEQNSKLVDLKLKLLLEVQPQ  
VANSPSSAAQKAVTESSEQDMKSGTEDLRTERLQKTTERFRNPVVFSDSTVRKTQLQSF  
SQYIENRPEMKRQRSIQEDTKKGNEEKAAITETQRKPSDEVLNKGFKDTSQYVVGELAA  
LENEQKQIDTRAALVEKRLRYLMDTGRNTEEEEAMMQEWFMLVNKKNALIRRMNQLSLE  
KEHDLERRYELLNRELAMLAIEDWQKTEAQKRREQLLDELVALVNKRDALVRDLDAQE  
KQAEEDDEHLERTLEQNKGMMAKKEEKCVLQ

>sp|O60739|EIF1B\_HUMAN Eukaryotic translation initiation factor 1b OS=Homo sapiens  
GN=EIF1B PE=1 SV=2

MTSIQNLQSFDPFADATKGDDLLPAGTEDYIHIRIQQRNGRKTLTTVQGIADDYDKKKLV  
KAFKKKFACNGTVIEHPEYGEVIQLQGDQRKNICQFLLEVGVKKEEQLKVHGF

>sp|Q9NVF9|EKI2\_HUMAN Ethanolamine kinase 2 OS=Homo sapiens GN=ETNK2 PE=2 SV=3

MAVPPSAPQPRASFHLRRHTPCPQCSWGMEKAAASASCREPPGPPRAAAVAYFGISVDP  
DDILPGALRLIQELRPHWKPEQVTRKFTDGITNKLVACYVEEDMQDCVLVRVYGERTEL  
LVDRENEVRNFQLLRAHSCAPKLYCTFQNGLCYEYMQGVALEPEHIREPRLFRLIALEMA  
KIHTIHANGSLPKPILWHKMHNFTLVKNEINPSLSADVPKVEVLERELAWLKEHLSQLE  
SPVVFCHNDLLCKNIYDSIKGHVRFIDYEYAGYNYQAFDIGNHFNEFAGVNEVDYCLYP  
ARETQLQWLHYLQAQKGMVTPREVQRLYVQVNFALASHFFWALWALIQNQYSTIDFD  
FLRYAVIRFNQYFKVKPQASALEMPK

>sp|P28324|ELK4\_HUMAN ETS domain-containing protein Elk-4 OS=Homo sapiens GN=ELK4 PE=1  
SV=3

MDSAITLWQFLLQLLQKPQNKHMICWTSNDGQFKLLQAEVVARLWGIRKNKPNMNYDKLS  
RALRYYYVKNIKKVNGQKFVYKFVSYPEILNMDPMTVGRIEGDCESLNFSEVSSSSKDV  
ENGKDKPPQPGAKTSSRNDYIHSGLYSSFTLNSLNSSNVKLFKLKIKTENPAEKLAEKKS  
PQEPTPSVIKFTTSPSKPPVEPVAATISIGPSISPSSEETIQALETLVSPKLPSLEAPT  
SASNVMTAFATTPPISSIPLEPPRTPSPPLSSHPDIDTIDSVASQPMELPENLSLEP  
KDQDSVLEKDKVNSSRSKKPKGLELAPTLVITSSDPSPLGILSPSLPTASLTPAFFSQ  
TPIILTPSPLSSIHFWSLSPVAPLSPARLQGANTLFQFPVLSNHPFTLSGLDGPST  
PGPFSPDLQKT

>sp|Q96JJ3|ELM02\_HUMAN Engulfment and cell motility protein 2 OS=Homo sapiens GN=ELM02  
PE=1 SV=2

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLY  
ITEQTRSDIKNGTILQLAISPSRAARQLMERTQSSNMETRLDAMKELAKLSADVTFATEF  
INMDGIIIVLTRLVESGTKLLSHYSEMLAFTLTAFLELMDHGIVSWDMVSITFIKQIAGYV  
SQPMVDVSI LQRSLAILESMVLNSQSLYQKIAEEITVGQLISHLQVSNQEIQTYAIALIN  
ALFLKAPEDKRQDMANAFQKHLRSIILNHVIRGNRP IKTEMAHQLYVLQVLT FNLL EER  
MMTKMDPNDQAQRDI IFELRRIAFDAESDPSNAPGSGTEKRKAMYTKDYKMLGFTNHINP  
AMDFTQTTPPGMLALDNMLYLAKVHQDTYIRIVLENSREDKHECPFGRSAIELTKMLCEI  
LQVGELPNEGRNDYHPMFFTHDRAFEELFGICTQLLNKTWKEMRATAEDFNKVMQVVREQ  
ITRALPSKPNSLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILEL  
IKQQRLNRLCEGSSFRKIGNRRRQERFWYCR LALNHKVLHYGDLDDNPQGEVTFESLQEK  
IPVADIKAIVTGDCPHMKEKSALKQKNEVELEAFSILYDPDET LNF IAPNKYEYCIWID  
GLSALLGKDMSELTKSDLDTLLSMEMKLRLLDLENIQIPEAPPIPKPESSYDFVYHYG  
>sp|P15502|ELN\_HUMAN Elastin OS=Homo sapiens GN=ELN PE=1 SV=3  
MAGLTAAAPRPGVLLLLLSILHPSRPGGVPGAIPGGVPGGVFYPGAGLGALGGGALGPGG  
KPLKPVPGGLAGLAGLGAFAVTFPGALVPGGVADAAAAYKAAKAGAGLGGVPGVGG  
LGVSAGAVVPQPGAGVKPGKVPVGLPGVYPGGVLPGARFPGVGVLPGVPTGAGVKPKAP  
GVGGAFAGIPGVPGFGPGVPLGYPIKAPKLPGGYGLPYTTGKLPYGYGPGGVAGAAG  
KAGYPTGTGVGPQAAAAAAKAAAKFGAGAAGVLPVGGGAGVPGVPGAIPGIGGIAGVGT  
PAAAAAAAKAAKYGAAAGLVPGGPGFGPGVVGVPGAGVPGVPGAGIPVVPAGAGIP  
GAAVPGVVSPEAAAKAAAKAAKYGARPGVGVGGIPTYGVGAGGFPFGVGVGGIPGVAGV  
PGVGGVPGVGGVPGVGSPEAQAAAAAAKAAKYGAAGAGVLGGLVPGPQAAVPGVPGTGGV  
PGVGTPAAAAAKAAAKAAQFGLVPGVGVAPGVGVAPGVGLAPGVGVAPGVGVAP  
GVGVAPGIGPGGVAAAASAAKVAAKAQLRAAAGLGAGIPGLGVGVGPGLGVGAGVPGL  
GVGAGVPGFGAGADEGVRRSLSPELREGDPSSSQHLPSTPSSPRVPGALAAAKAAKYGAA  
VPGVLGGLGALGGVGIPGGVVGAGPAAAAAAKAAAKAAQFGLVGAAGLGGLVGGGLGVP  
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CGRKRK

>sp|Q9Y3B6|EMC9\_HUMAN ER membrane protein complex subunit 9 OS=Homo sapiens GN=EMC9 PE=1  
SV=3

MGEVEISALAYVKMCLHAARYPHAAVNGLFLAPAPRSGECLCLTDCVPLFHSHLALSVM  
EVALNQVDVWGAQAGLVVAGYYHANAANDQSPGPLALKIAGRIAEFFPD AVLIMLDNQK  
LVPQRPVPPVIVLENQGLRWVPKDKNLVMWRDWEESRQMVGALLEDRAHQHLVDFDCHLD  
DIRQDWTNQRLNTQITQWVGPTNGNGNA

>sp|Q9H4I9|EMRE\_HUMAN Essential MCU regulator, mitochondrial OS=Homo sapiens GN=SMDT1  
PE=1 SV=1

MASGAARWLVLAPVRSGALRSGPSLRKGDVSAAWSGSGRSLVPSRSVIVTRSGAILPKP  
VKMSFGLLRVFSIVIPFLYVGT LISKNFAALLEEHDIFVPEDDDDDD

>sp|Q6PJG2|EMSA1\_HUMAN ELM2 and SANT domain-containing protein 1 OS=Homo sapiens  
GN=ELMSAN1 PE=1 SV=2

MNLQAQPKAQNKRRCLFGGQEPAPKEQPPPLQPPQQSIRVKEEQYLGHEGPGGAVSTSQ  
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WQQQPGQPPPHSTWNCHSLSLYSATKGSPHPGVGVPTYYNHPEALKREKAGGPQLDRYVR  
PMMPQKVQLEVGRPQAPLNSFHAAKKPPNQSLPLQPFQLAFGHQVNRQVFRQGGPPPNPV  
AAFPPQKQQQQQQPQQQQQQQAALPQMPLFENFYSPQQPSQQPQDFGLQPAGPLGQSH

LAHHSMAPYFPFPNPDMPNELRKALLQDSAPQPALPQVQIPFPRRSRRLSKEGILPPSAL  
DGAGTQPGQEATGNLFLHWWPLQQPPPGSLGQPHPEALGFPLELRESQLLPDGERLAPNG  
REREAPAMGSEEGMRAVSTGDCGQVLRGGVIQSTRRRRRASQEANLLTLAQKAVELASLQ  
NAKDGSSEKRSVLASTTKCGVEFSEPSLATKRAREDSGMVPLIIPVSVPVRTVDPTE  
AAQAGGLDEDGKGPEQNPAEHKPSVIVTRRRSTRIPGTDAQQAEDMNVKLEGEPSVRKP  
KQRPRPEPLIIPTKAGTFIAPPVYSNITPYQSHLRSPVRLADHPSESRFELPPYTPPPIL  
SPVREGSGLYFNAIISTSTIPAPPPITPKSAHRTLLRTNSAEVTPPVLSVMGEATPVSIE  
PRINVGSRFQAEIPLMRDRALAAADPHKADLVWQPWEDLESSREKQRQVEDLLTAACSSI  
FPGAGTNQELALHCLHESRGDILETLNKLKLLKPLRPHNHPLATYHYTGSDQWKMAERKL  
FNKGIAIYKKDFFLVQKLIQTKTVAQCVEFYTYKKQVKIGRNGTLTFGDVDSDEKSAQ  
EEVEVDIKTSQKFPVRPLPRRESPSEERLEPKREVKEPRKEGEEVPEIQEKEEQEEGRE  
RSRRAAAVKATQTLQANESASDILILRSHESSNAPGSAGGQASEKPREGTGKSRRALPFSE  
KKKKTETFSKTQNQENTFPCKKCCR

>sp|Q7Z589|EMSY\_HUMAN BRCA2-interacting transcriptional repressor EMSY OS=Homo sapiens  
GN=EMSY PE=1 SV=2

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ERHRAEVRRAVNDERLTTIAHNMSGPNSSSEWSIEGRRLVPLMPRLVPQTAFTVTANAVA  
NAAIQHNASLPVPAETGSKEVVCYSYTTSTSTPTSTPVPSGSIATVKSPPASPASNVVV  
LPSGSTVYVKSVCSDDEDEKPRKRRRTNSSSSSPVVLKEVPKAVVPVSKTITVPVSGSPK  
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AAVTKLVPTSVIASTTQKPPVITASQSSLVSNSSSGSSSTPSPIPNTVAVTAVVSTP  
SVVMSTVAQGVSTSAIKMASTRLPSPKSLVSAPTQILAQFPKQHQSPKQQLYQVQQQTQ  
QQVAQSPSPVSHQQPQQSPLPPGIKPTIQIKQESGVKIIITQQVQPSKILPKPVTATLPTS  
SNSPIMVVSSNGAIMTKLVTTPTGTQATYTRPTVSPSIGRMAATPGAATYVKTTSGSII  
TVVPKSLATLGKKIISNNIVSGTTKITTIPMTSKPNVIVVQKTTGKGTTIQGLPGKNVV  
TTLLNAGGEKTIQTVPTGAKPAILTATRPITKMIVTQPKGIGSTVQPAAKIIPTKIVYGQ  
QGKTQVLIKPKPVTQATVVSEQTRQLVTETLQQASRVAEAGNSSIQEGKEEPQNYTDSS  
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ELQQTTVKEKLESKRQPTIDLSQMAVPIQMTQEKRHSPESPSIAVVESELVAEYITTER  
TDEGTEVAFPLLVSHRSQPQQPSQPQRTLLQHVAQSQATQTSVVVKSIPASSPGAITHI  
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QTQLQVKTLQCFQTKQKQTIHLQADQLQHKLPQMPQLSIRHQKLTPLQQEQAAQPKPDVQH  
TQHMPVAKDRQLPTLMAQPPQTVVQVLAVKTTQQLPKLQQAPNQPKIYVQPQTPQSQMSL  
PASSEKQTASQVEQPIITQGSSVTKITFEGRPPTVTKITGGSSVPKLTSPVTSISPIQA  
SEKTAVSDILKMSLMEAQIDTNVEHMIVDPPKKALATSMLTGEAGSLPSTHMVVAGMANS  
TPQQQKCRESCSSPSTVGSSLTTRKIDPPAVPATGQFMRIQNVGQKKAEESPAEEIIQAI  
PQYAIPTCHSSSNVVVEPSGLLELNNFTSQQLDDEETAMEQDIDSSTEDGTEPSPSQSSAE  
RS

>sp|Q8NFI3|ENASE\_HUMAN Cytosolic endo-beta-N-acetylglucosaminidase OS=Homo sapiens  
GN=ENGASE PE=1 SV=1

MEAAAVTVTRSATRRRRRLQGLAAPEAGTQEEQEDQEPRRRRRPGRSIKDEEEETVFR  
EVVSFSPDPLPVRYDYDKDTTKPISFYLSLEELLAWKPRLEDGFNVALEPLACRQPPLSS  
QRPRTLCHDMMGGYLLDDRFIQGSVVQTPYAFYHWQCIDVFVYFSHHTVTIPPVGWNTA  
HRHGVCVLGTFITEWNEGGRLCEAFLAGDERSYQAVADRLVQITQFFRFDGWLINIENSL

SLAAVGNMPPFLRYLTTLHRQVPGGLVLWYDSVVQSGQLKWQDELNQHNRFVFDSCDGF  
FTNYNWREEHLERMLGQAGERRADVYVGVDVFARGNVVGGRFDTDKSLELIRKHGFSVAL  
FAPGWVYECEKKDFFQNDKFWGRRLERYLPTHSICSLPFVTSFCLGMGARRVCYGQEEA  
VGPWYHLSAQEIQLPFGHRLGGDGRGWVRTHCCLEDAWHGGSSLLVRGVIPPEVGNVAV  
RLFSLQAPVPPKIYLSMVYKLEGPTDVTVALELTTGDAGSCHIGGISVLNAETSSRHSLR  
PLRVPPTKLARWVGRCGRQLSGGWVQHCEYVSLRGCLLDLLVCFSRPPGSREEESFTCR  
LGEIQVDAASLLAPLPQVQAVTISHIRWQPSASEREGPPALLQLSCTLHWSFLLSQVRC  
FRIHCWGGMSDDSPGRELPRPEMPMFLGLAFATQYRIVDLLVEAAGPGQDRRMEFLVEPV  
PKEGFRVPQAEWGRAVLLYSAPA

>sp|Q8N8Q3|ENDOV\_HUMAN Endonuclease V OS=Homo sapiens GN=ENDOV PE=1 SV=1

MALEAAGGPPEETLSLWKREQARLKAHVVDRTTEAWQRDPAFSGLQRVGGVDVSFVKGDS  
VRACASLVVLSFPELEVVEESRMVSLTAPYVSGFLAFREVPFLELVQQLREKEPGLMP  
QVLLVDGNGVLHHRGFGVACHLGVLTDLPCVGVAKKLLQVDGLENNALHKEKIRLLQTRG  
DSFPLLGDSTVLGMALRSHDRSTRPLYISVGHMSLEAAVRLTCCCCRFRIPEPVRQAD  
ICSREHIRKSLGLPGPPTPRSPKAQRPVACPKGDSGESSALC

>sp|P61566|ENK24\_HUMAN Endogenous retrovirus group K member 24 Env polyprotein OS=Homo sapiens GN=ERVK-24 PE=2 SV=1

MVPTVTWMDNPIEVYVNDSEWVPGPTDDRCPAKPEEEGMMINISIGYRYPPICLGTAPGC  
LMPAVQNLVEVPIVSPISRFTYHVMVSGMSLRPRVNYLQDFPYQRSCLKFRPKGKPCPKEI  
PKESKNTTEVLVWEECVANSAILQNEFGTIIDWAPRGQFYHNCSGQTQSCPSAQVSPAV  
DSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKIISPVSYPEHPWRLTVASHHRI  
WSGNQTLTDRKPFYTVDLNSSLTLPLQSCVKPPYMLVGNIVIKPDSQTITCENCRL  
TCIDSTFNWQHRILLVRAREGVWILVSMRDPWEASPSVHILTEVLKGVNRSKRIFITLI  
AVIMGLIAVTATGAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSIDQKLANQINDLRQ  
TVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRHHLQGREDNLTLDIS  
KLKEQIFEASKAHLNLVPGTEIAGVADGLANLNPVTWVKTIGSTTIINLILILVCLFCL  
LLVCRCTQQLRRSDHRERAMTMAVLSKRKGNGVSKSRDQIVTVSV

>sp|Q03111|ENL\_HUMAN Protein ENL OS=Homo sapiens GN=MLLT1 PE=1 SV=2

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KPRRVCKEPPYKVEESGYAGFIMPIEVHFKNKEEPRKVCFTYDLFLNLEGNPPVNHLCRCE  
KLTFNNPTTEFRYKLLRAGGVMMPEGADTVSRPSDPYMLPTIPLSAFSDPKKTKPSHG  
SKDANKESSKTSKPHKVTKEHRERPRKDESKSSSKELEREQAKSSKDTSRKLGEGRLPK  
EEKAPPPKAAFKPKMALKETKLESTSPKGGPPPPPPPPRASSKRPATADSPKPSAKKQ  
KKSSSKGSRAPGTSPTSSSSSFSDKKPAKDKSSTRGEKVKAESEPREAKKALEVEESN  
SEDEASFKSESAQSSPSNSSSSSDSSSDSDFEPSQNSHQPLRSMVEDLQSESEDEDDSS  
SGEEAAGKTNPGRDSRLSFSDESNSADSSLPSREPPPPQKPPPPNSKVSGRSPESCS  
KPEKILKKGTYDKAYTDELVELHRRMLALRERNVLQQIVNLIETGHFNVNTNTTFDFDLF  
SLDETTVRKLQSCLEAVAT

>sp|A6NNW6|ENO4\_HUMAN Enolase 4 OS=Homo sapiens GN=ENO4 PE=2 SV=2

MEEEGGGRSCGTTRELQKLKQAMEYYRENDVPRRLEELLNSTFYLPADVYGHLCANCF  
SKLAKPPTICKIVGKDVLDGLGLPTLQVDIFCTIQNFPKNVCSVISTHFEVHENALPEL  
AKAEEAERASAVSTAVQWVNSTITHELQGMAPSDQAEVDHLLRIFFASKVQEDKGRKELE  
KSLEYSTVPTPLPPVPPPPPPPTKKKGQKPRKDTITEKPIAPAEPVEPVLSGSMAIG  
AVSLAVAKACAMLLNKPLYLNIALLKHNQEQTTLSPMLLMVSLVSCGKSSSGKLNLMKE

VICIPHELTTKQGVEMLMEMQKHINKIIEMPPSPPKAETKKGHDGSKRGQQQITGKMS  
HLGCLTINCDSIEQPLLLIQEICANLGLLGTNLHLAINCAGHELMDYNGKYEYIMGTY  
KNAEMVDLYVDLINKYPSIIALIDPFRKEDSEQWDSIYHALGSRCYIIAGTASKSISKL  
LEQGNISIPKSNGLIKHTNQTTMSDLVEITNLIDSKKHITVFGSTEGESSDDSLVDLAV  
GLGVRFIKLGGLSRGERVTKYNRLLTIEEELVQNGTLGFKEEHTFFYFNEEAEKAAEALE  
AAAAREPLVPTFPTQGVEESAETGASSG

>sp|P06733|ENOA\_HUMAN Alpha-enolase OS=Homo sapiens GN=ENO1 PE=1 SV=2

MSILKIHAREIFDSRGNTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGK  
GVSKAVEHINKTIAPALVSKKLVNTEQEKIDKLEMDGTENKSKFGANAILGVSLAVCK  
AGAVEKGVPLYRHIADLAGNSEVILPVPFNVINGGSHAGNKLAMQEFMILPVGAANFRE  
AMRIGAEVYHNLKNVIEKYGKDATNVGDEGGFAPNILENKEGLELLKTAIGKAGYTDKV  
VIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSFIDYPVVSIEDPFDQDD  
WGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLA  
QANGWGVMSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSK  
AKFAGRNFRNPLAK

>sp|Q58FF3|ENPLL\_HUMAN Putative endoplasmin-like protein OS=Homo sapiens GN=HSP90B2P PE=5  
SV=1

MAETIQEVEDEYKAFCKSFSKESDDPVACIHFTAEGEVTFKSILFVPTFVPRGLFDEYGS  
KKSDYIKLYVRCVFI TDDFRDTPKKNLNFVKGVDSGGLSLNVSCETLQQHKLLKVI RKK  
LVHKTLDMIKKIADEKYNDTFWKEFGTNIKLGVIEDHSNRTCLAKLLRFQSSHPADITS  
LHQDVERMKEKQDKICLMAGGYEVIYLTEPVVEYCIQALPEFDGKRFQNVAKEGVKFDDS  
EKTKE SHEAVEKEFEPLPNWVKDAIKDKIEKAMVSQCLTESLCALVASQYGWSGNMERI  
MKAQAYQTGKGISTNYHASRKKTFEINPRHPLIRDMLRRIKEDDEDDKTVLDLAVVEEPDE  
EPEETAEDKEQDKDKEMDVGTDEEKQETAKESTA EKDEL

>sp|Q13822|ENPP2\_HUMAN Ectonucleotide pyrophosphatase/phosphodiesterase family member 2  
OS=Homo sapiens GN=ENPP2 PE=1 SV=3

MARRSSFQSCQIIISLFTFAVGVNICLGFTAHRICKRAEGWEEGPPTVLSDSPWTNISGSCK  
GRCFELQEAGPPDCRCDNLCKSYTSCCHDFDELCLKTARGWECTKDRCGEVRNEENACHC  
SEDCLARGDCCTNYQVVCKGESHVDDDCCEEIKAAECPAGFVRPPLIIFSVDGFRASYMK  
KGSKVMPIEKL RSCGTHSPYMRPVYPTKTFPNLYTLATGLYPESHGIVGNSMYDPVFDA  
TFHLRGREKFNHRWWGGQPLWITATKQGVKAGTFFWSVVIPHERILITLQWLTLPDHER  
PSVYAFYSEQPDFSGHKYGPFGPEMTNPLREIDKIVGQLMDGLKQLKHRCVNVIFVGDH  
GMEDVTCDRTEFLSNYLTNVDITLVPGLGRIRSKFSNNAKYDPKAI IANLTCKKPDQH  
FKPYLKQHLPKRLHYANNRRIEDIHLLVERRWHVARKPLDVYKKPSGKCFQGDHGF DNK  
VNSMQTVFVGYGSTFKYKTKVPPFENIELYNVMCDLLGLKPAPNNGTHGSLNHLRTNTF  
RPTMPEEVTRPNYPGIMYLQSDFDLGCTCDDKVEPKNKLDLNLRLHTKGSTEERHLLYG  
RPAVLYRTRYDILYHTDFESGYSEIFLMPLWTSYTVSKQAEVSSVPDHLTSCVRPDVRVS  
PSFSQNCCLAYKNDKQMSYGFLFPPYLSSSPEAKYDAFLVTNMVMPYAFKRVWNYFQRVL  
VKKYASERNGVNVISGPIFDYDYDGLHDTEDKIKQYVEGSSIPVPTHYYSIITSCLDFTQ  
PADKCDGPLSVSSFILPHRPDNEESCNSSEDESKWVEELMKMHTARVRDIEHLTSLDFFR  
KTSRYPEILTLKTYLHTYESEI

>sp|Q9UJA9|ENPP5\_HUMAN Ectonucleotide pyrophosphatase/phosphodiesterase family member 5  
OS=Homo sapiens GN=ENPP5 PE=2 SV=1

MTSKFLLVSFILAA LSLSTTFSLQPDQKVLVVSFDGFRWDYLYKVPTPHFHYIMKYGVH

VKQVTNVFITKTYPNHYTLVTGLFAENHGIVANDMFDPIRKNKSFSLDHMNIYDSKFWEEA  
TPIWITNQAGHTSGAAMWPGTDVKIHKRFPTHYMPYNESVSFEDRVAKII EWFTSKEPI  
NLGLLYWEDPDDMGHHLGPDSPLMGPVISDIDKKLGYLIQMLKKAKLWNTLNLIITS DHG  
MTQCSEERLIELDQYLDKDHYTLIDQSPVAAILPKEGKFDEVYEALTHAHPNLTVYKKED  
VPERWHYKYNSRIQPIIAVADEGWHILQNKSDDFLLGNHGYDNALADMHPIFLAHGPAFR  
KNFSKEAMNSTDLYPLLCHLLNITAMPHNGSFWNVQDLLNSAMPRVVPYTQSTILLPGSV  
KPAEYDQEGSYPIYFVIGVSLGSIIVIVFFVIFIKHLIHSQIPALQDMHAEIAQPLLQA

>sp|075355|ENTP3\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 3 OS=Homo sapiens  
GN=ENTPD3 PE=1 SV=2

MFTVLTRQPCQAGLKALYRTPTIIALVLLVSIVVLVSITVIQIHKQEVLPGLKYGIV  
LDAGSSRTTVVYQWPAKENNTGVVSQTFKCSVKGSGISSYGNNPQDVPRAFEECMQKV  
KGQVPSHLHGSTPIHLGATAGMRLRLQNETAANEVLESIQSYFKSQPFDFRGAQIIISGQ  
EEGVYGWITANYLMGNFLEKNLWHMWVHPHGVETT GALDLGGASTQISFVAGEKMDLNTS  
DIMQVSLYGYVYTYLTHSFQCYGRNEAEKKFLAMLLQNSPTKNHLTNP CYPRDYSISFTM  
GHVFDLSLCTVDQRPE SYNPNVDITFEGTGDPSLCKEKVASIFDFKACHDQETCSFDGVYQ  
PKIKGPFVAFAGFYITASALNLSGSFSLDTFNSSTWNFCSQNWSQLPLLLPKFDEVYARS  
YCFSANYIYHLFVNGYKFTETWPQIHFEKEVGNSSIAWSLG YMLSLTNQIPAESPLIRL  
PIEPPVFGTLAFFTAAALLCLAFLAYLCSATRKRKRHSEHAFDHA VDS

>sp|Q9UBC2|EP15R\_HUMAN Epidermal growth factor receptor substrate 15-like 1 OS=Homo  
sapiens GN=EPS15L1 PE=1 SV=1

MAAPLIPLSQIPTGNSLYESYYKQVDPAYTGRVGASEAALFLKKSGLSDIILGKIWDLA  
DPEGKGFLDKQGFYVALRLVACAQSGHEVTLSNLNLSMPPPKFHD TSSPLMVTPPSAEAH  
WAVRVEEKAKFDGIFESLLP INGLLSGDKVKPVL MNSKLPDVLGRVWDLSDIDKGHL D  
RDEFAMHLVYRALEKEPVPSALPPSLIPPSKRKKTVPFGAVPVL PASPPPKDSL RSTP  
SHGSVSSLNSTGSLSPKHSLKQTPTVNWVVPVADKMRFDEIFLKTDL DLDGYVSGQEVK  
EIFMHSGLTQNLLAHIWALADTRQTGKLSKDQFALAMYFIQQKVS KIDPPQVLS PDMVP  
PSERGTGPDSSGSLGSGEFTGVKELDDISQEI AQLQREKYSLEQDIREKEEAIRQKTSE  
VQELQNDLDRETSSLQELEAQKQDAQDRLDEMDQQKAKLRDMLS DVQRKCQDETQMISL  
KTQIQSQESDLKSQEDDLNRAKSELNRLQQEETQLEQSIQAGRVQLETIIKSLKSTQDEI  
NQARSKLSQLHESRQEAHRSLEQYDQVLDGAHGASLTDLANLSEGVSLAERGSFGAMDDP  
FKNKALLFSNNTQELHPDPFQTEDPFKSDPFGADPFGDPFQNDPFAEQQTSTDPFGG  
DPFKESDPFRGSATDDFFKKQTKNDPFTSDPFTKNPSLPSKLPFESSDPFSSSVSSKG  
SDPFGTLDPFGSGSFNSAEGFADFQMSKPPPSGPFTSSLGGAGFSDDPFKSKQDTPALP  
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FVPSSAAKPSKASASGFADFTSVS

>sp|Q9H2F5|EPC1\_HUMAN Enhancer of polycomb homolog 1 OS=Homo sapiens GN=EPC1 PE=1 SV=1

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AQQVYGEKRDNMVIPVEAESNIAYYESIYPGEFKMPKQLIHIQPFSLDAEQPDYDL DSE  
DEVFVNKLKKKMDICPLQFEEMIDRLEKSGGQPVSLQEAKLLLKEDELIREVYEWIK  
KRKNCRGPSLIPSVKQEKRDGSSNDPYVAFRRRTEKMQRKNRKNDEASYE KMLKLRRD  
LSRAVTILEMIKRREKSKRELLHLTLEIMEKRYNLGDYNGEIMSEVMAQRQPMKPTYAIP  
IIPITNSSQFKHQEAMDVKEFKVNKQDKADLIRPKRKYEKPKVLPSSAAATPQQTSPAA  
LPVFNAKDLNQYDFPSSDEEPLSQVLSGSSEAEEDNDPDGPFAFRRKAGCQYYAPHL DQT  
GNWPWTSPKDGGLGDVRYRYCLTTLTVPQRCIGFARRRVGRGGRVLLDRAHSDYDSVFHH

LDLEMLSSPQHSPVNQFANTSETNTSDKSFSDLSQILVNIKSCRWRHFRPRTPSLHSD  
NDELSCKLYRSINRTGTAQPGTQTCSTSTQSKSSSGSAHFAFTAQYQQHQQQLALMQK  
QQLAQIQQQQANSNSTNTSQNLASNQKSGFRLNIQGLERTLQGFVSKTLDASAQFAA  
SALVTSEQLMGFKMKDDVVLGIGVNGVLPASGVYKGLHLSSTPTALVHTSPSTAGSALL  
QPSNITQTSSSHSALSHQVTAANSATTQVLIGNNIRLTPSSSVATVNSIAPINARHIPRT  
LSAVPSSALKLAAAANCQVSKVPSSSSVDSVPRENHESEKPALNNIADNTVAMEVT

>sp|Q9UNN8|EPCR\_HUMAN Endothelial protein C receptor OS=Homo sapiens GN=PROCR PE=1 SV=1

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PDTNTTIIQLQLQEPESWARTQSGLQSYLLQFHGLVRLVHQERTLAFPLTIRCFGLCEL  
PPEGSRAHVFFEAVNGSSFVSFRPERALWQADTQVTSGVVTFTLQQLNAYNRTRYELRE  
FLEDTCVQYVQKHISAENTKGSQTSRSYTSVLGVLVGSFIIAGVAVGIFLCTGGRRRC

>sp|Q95278|EPM2A\_HUMAN Laforin OS=Homo sapiens GN=EPM2A PE=1 SV=2

MRFRFGVVVPPAVAGARPELLVVGSRPELGRWEPRGAVRLRPAGTAAGDGALALQEPGLW  
LGEVELAAEEAAQDGAEPGRVDTFWYKFLKREPGGELSWEGNGPHHRCCTYNENNLVDG  
VYCLPIGHWIEATGHTNEMKHTTDFYFNIAGHQAMHYSRILPNIWLGSCPRQVEHVTIKL  
KHELGITAVMNFQTEWDIVQNSSGCNRYPEPMPDPMIKLYREEGLAYIWMPTPDMSTEG  
RVQMLPQAVCLLHALLEKGHIVYVHCNAGVGRSTAAVCGWLQYVMGWNLRKVQYFLMAKR  
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>sp|Q14677|EPN4\_HUMAN Clathrin interactor 1 OS=Homo sapiens GN=CLINT1 PE=1 SV=1

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MNMLWSRMLKDNKKNWRRVYKSLLLLAYLIRNGSERVVTSAHEHIYDLRSLNHYHFVDEH  
GKDQGGINIRQKVKEVEFAQDDRLREERKKAKKNKDKYGVSSDSVGGFRYSERYDPEP  
KSKWDEEWDKNKSAPFSDKLGELSDKIGSTIDDTISKFRRKDREDSPERCSDSDEEKK  
RRGRSPKGEFKDEEETVTTKHHITQATETTTTRHKRTANPSKTIDLAAAHYTGDKASP  
DQNASTHTPQSSVKTVPSSKSSGDLVDLFDGTSQSTGGSADLFGGFADFGSAAASGSFP  
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SDLFDLMGSSQATMTSSQSMNFSMMSTNTVGLGLPMSRSQNTDMVQKSVSKTLPSTWSDP  
SVNISLDNLLPGMQSPKPPSLNTMIQQQNMQPMNVMTQSFGAVNLSSPSNMLPVRPQ  
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>sp|Q99645|EPYC\_HUMAN Epiphycan OS=Homo sapiens GN=EPYC PE=2 SV=3

MKTLAGLVGLVIFDAVTAPTLESINYDSEYDATLELDNLNYENIPVDKVEIEIAT  
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CTCISTTVYCDDELDAIPPLKNTAYFYSRFNRIKKINKNDFASLSDLKRIDLTSNLIS  
EIDEDAFRKLPLRELVLVDNKRQLPELPTTLTFIDISNNRLGRKGIKQEAFKDMYDLH  
HLYLTDNNLDHIPLPLPENLRALHLQNNNILEMHEDTFCNVKNLTYIRKALEDIRLDGNP  
INLSKTPQAYMCLPRLPVGSLV

>sp|P04626|ERBB2\_HUMAN Receptor tyrosine-protein kinase erbB-2 OS=Homo sapiens GN=ERBB2  
PE=1 SV=1

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ELTYLPTNASLSFLQDIQEVQGYVLIHNVQVRQVPLQRLRIVRGTLFEDNYALAVLDNG  
DPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLA  
LTLIDTNRSRACHPCSPMCKGSRWGESSEDCQSLTRTVCAAGGCARCKGPLPTDCCHEQC  
AAGCTGPKHSDCLACLFHNSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACP



YNYLSTDVGSCTLCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSAN  
IQEFAGCKKIFGSLAFLPESFDGPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLP  
DLSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHNNHLCFVHTV  
PWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPPTQCVNCSQFLRGQEC  
VEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARC  
PSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIIISAVVG  
ILLVVVLGVVFGILIKRRQKKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETEL  
RKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVIRENTSPKANKEILDEAYVMAGVGSP  
YVSRLGLICTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNWCMTAKGMSYLEDVR  
LVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPKWMALLESILRRRFT  
HQSDVWSYGVTVWELMTFGAKPYDGIIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWM  
IDSECRPRFRELVEFSRMRDPQRFVVIQNEDLGPASPLDSTFYRSLEDDDDMGDLVDA  
EEYLVPQQGFFCPDPAPGAGGMVHHRSSSTRSGGDLTLGLEPSEEEAPRSPLAPSEG  
AGSDVFDGDLGMAAKGLQSLPHTDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYV  
NQPDVRPQPPSPREGPLPAARPAGATLERPKTLPKGKNGVVKDVFAFGGAVENPEYLTQ  
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>sp|Q96RT1|ERBIN\_HUMAN Erbin OS=Homo sapiens GN=ERBIN PE=1 SV=2

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EASVNPISKLPDGFSQLNLTLQLYLNDAFLEFLPANFGRLTKLQILELRENQLKMLPKTM  
NRLTQLERLDLGSNEFTEVPEVLEQLSGLKEFWMDANRLTFIPGFIGSLKQLTYLDVSKN  
NIEMVEEGISTCENLQDLLSSNSLQQLPETIGSLKNITTLKIDENQLMYLPDSIGGLIS  
VEELDCSFNEVEALPSSIGQLTNLRTFAADHNYLQQLPPEIGSWKNITVFLHSNKLETL  
PEEMGDMQKLKVINLSDNRLKNLPFSFTKLQQLTAMWLSDNQSKPLIPLQKETDSETQKM  
VLTNMFPPQPRTEVDMFISDNESFNPSLWEEQRKQRAQVAFECDEKDEREAPPREGNL  
KRYPTYPDELKNMVKTQTIVHRLKDEETNEDSGRDLKPHEDQQDINKDVGVKTSESTT  
TVKSKVDEREKYMIGNSVQKISEPEAEISPGSLPVTANMKASENLKHIVNHDDVFEESEE  
LSSDEEMKMAEMRPLIETSINQPKVVALSNNKKDDTKETDLSDEVTHNSNQNNSSNCSS  
PSRMSDSVSLNTDSSQDTSCLSPVKQTHIDINSKIRQEDENFNLSLLQNGDILNSSTEEKF  
KAHDKKDFNLPEYDLNVEERLVLEKSVDSTATADDTHKLDHINMNLNKLITNDFQPEI  
MERSKTQDIVLGTSFLSINSKEETHELENGKNYPNLESVNKVNGHSEETSQSPNRTEPHD  
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ITSVDGKNIVRSKSATLLYDQLQVFTGSSSSDLISGTKAIFKFDNHNPEEPNIIRG  
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YAKHSANMFSNHNVRANTAYHLHQRLGPARHGEMWAI SPNDRLIPAVTRSTIQRQSSV  
SSTASVNLGDPGSTRRAQIPEGDLYSYREFHSAGRTPPMMPGSQRPLSARTYSIDGPNAS  
RPQSARPSINEIPERTMSVSDFNYSRTSPSKRPNARVGSEHSLDPPGKSKVPRDWREQV  
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YSFINIEHGQAVSLLKTFQNTVELIIVREVSS

>sp|Q2NKX8|ERC6L\_HUMAN DNA excision repair protein ERCC-6-like OS=Homo sapiens GN=ERCC6L  
PE=1 SV=1

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QKIQEALAEELAEQGDDEFTDVCNSGLLLYRELHNQLFEHQKEGIAFLYSLYRDGRKGGIL  
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KDERTRNLNRIQQRNGVIITTYQMLINNQQQLSSFRGQEFVWDYVILDEAHKIKTSSTKS  
AICARAIPASNRLLLTGTPIQNNLQELWSLFDACQGSLLGTLKTFKMEYENPITRAREK  
DATPGEKALGFKISENLMAI IKPYFLRRTKEDVQKKSSNPEARLNEKNPDVDAICEMPS  
LSRKNDLI IWIRLVPLQEEIYRKVSLDHIKELLMETRSPLAELGVLKKLCDHPRLLSAR  
ACLLNLGTGSAQDNGEGEDSPVDHIDQVTDDTLMEESGKMIFLMDLLKRLRDEGHQTL  
VFSQSRQILNIIERLLKNRHFKTLRIDGTVTHLLEREKRINFQQNKDYSVFLTTQVGG  
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KDSLIRQTTGEKKNPFRYFSKQELRELFITIEDLQNSVTQLQLQSLHAAQRKSDIKLDEHI  
AYLQSLGIAGISDHDLMYTCDSLVSKEELDVVEESHYIQQRVQKAQFLVEFESQNKEFLME  
QQRTRNEGAWLREPVPSSSTKKKCPKLNKPQPSPLLSTHHTQEEDISSKMASV IDDL  
PKEGEKQDLSSIKVNVTTLQDGKGTGSADSIATLPKGFGSVEELCTNSSLGMEKSFATKN  
EAVQKETLQEGPKQALQEDPLESFNYVLSKSTKADIGPNLDQLKDDEILRHCPWP IIS  
ITNESQNAESNVSIIEIADDLSASHSALQDAQASEAKLEEPSASSPQYACDFNFLFLEDS  
ADNRQNFSSQSLEHVEKENS LCGSAPNSRAGFVHSKTCLSWEFSEKDDEPEEVVVKAKIR  
SKARRIVSDGEDEDDSFKDTSSINPFNTSLFQFSSVKQFDASTPKNDISPPGRFFSSQIP  
SSVNKSMSNRRSLASRRSLINMVLDHVEDMEERLDDSSSEAKGPEDYPEEGVEESSGEASK  
YTEEDPSGETLSSSENKSSWLMTSKPSALAQETSLGAPEPLSGEQLVGSPQDKAAEATNDY  
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>sp|P33316|DUT\_HUMAN Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial  
OS=Homo sapiens GN=DUT PE=1 SV=4

MTPLCPRPALCYHFLTSLLRSAMQNARGARQRAEAAVLSGPGPPLGRAAQHGIPRLSSA  
GRLSQGCRGASTVGAAGWKGELPKAGGSPAPGPETPAISPSKRARPAEVGGMQLRFARLS  
EHATAPTRGSARAAGYDLYSAYDYTIIPMEKAVVKTDI QIALPSGCYGRVAPRSGLAAXH  
FIDVGAGVIDEDYRGNVGVVLFNFGKEKFEVKKGDRIAQLICERIFYPEIEEVQALDDTE  
RSGGGFGSTGKN

>sp|Q8WWB3|DYDC1\_HUMAN DPY30 domain-containing protein 1 OS=Homo sapiens GN=DYDC1 PE=1  
SV=1

MESIYLQKHLGACLTQGLAEVARVRPVDPIEYLALWIYKYKENVTMELRQKEMAKLERE  
RELALMEQEMMERLKAEELLLQQQLALQLELEMQEKERQRIQELQRAQEQLGKEMRMNM  
ENLVRNEDILHSEETLDSGKTLAEISDRYGAPNLSRVEELDEPMFSDIALNIDQDL

>sp|QOVD8|DYH14\_HUMAN Dynein heavy chain 14, axonemal OS=Homo sapiens GN=DNAH14 PE=2  
SV=3

MGRRSQWIWAMRCQMLVPVLSLHIGLARALGCGCIASKIECLIRCNAFPPLLDVAGSVAS  
QELQSLTGTVGVTSGAAAYPRWNLARARAPPHLPQTQDPLRRVRDPTPIVASSPGRRRGS  
WSGGYGQEAEPGVVGLCCAVLP IHPSLALAGVGGPDLRRFQEGPQRPSDHGAAEKHMET  
FIPIDLTTENQEMDKETKTKPRLLRYEEKKYEDVKPLETQPAEIAEKETLEYKTVRTFS  
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EFVYCLPRKSPKSLNYPYDLQVVAHTAKHCKEFWVITASFISKLDSSRTYSLDEFCEEQ  
LQATQALKQLEDIRNKAISEMKTFLKVAEKNEIKEYFESKLSEDDTTHFKLPKYRRL  
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YNLEDIISATITPLCQDPQLSIFIDLVSIMDLPNKTGSI IHYKEQTRWPDCHILFETDPA  
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FRNYFRHIVNMAIEKRI GIFNVVVESSLQQL ECDPTEIEEFLEHFIFLNAISSKISKLEK  
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ACISGLHVDVGNLKAKIRTPLLLCAGTQVSTAMEMIQTLSGEAASLTNKAKAYSHYQDCF  
SDSQSHMHSVNVEEITQIVLSEISDIEGDLTLRKKLWEAQEEWKRASWEWRNSSLQSIDV  
ESVQRNVSKLMHIISVLEKEIYSIFIIPSIDDISAQLEESQVILATIKGSPHIGPIKSQI  
MFYNDCVKSFSVSSYSREKLEKVHAGLMCHLEEVADLVLDTSNSRTKAILGALLILVHC  
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LTCFGL EKTVLVMNTVMSFRFVLEGKEIRINMSCAVFITMNPYGGGVLPDNLKSLFRP  
VAMMVPHYQMIAEIIILFSFGFKSANSLSGKLTNLYELARKQLSQQDHYNFGLRSLKIVLI  
MAGTKKREFKCDTSDSLSEADETLIVIEAIREASLPKCPPEDVPLFENIIGDIFPEVTVL  
KVNQLALEKVIYTATQQLGLQNWSSQKEKIIQFYNQLQVCVGMVLVGPTGGGKTTVRRIL  
EKALTLLPIADFLSVAERKSASKISERKKGVDICVLNPKCVTLSELYGQLDPNTMEWTDG  
LLSATIRSYVYFNTPKNTKKDIDLRLKSRI SDLSNVFKLDSSDTTETDDNIFEEIEKVVK  
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QASPATVSR CAMVMDPVDLGWEPYVKS WLLKTSKIIISQSGVDCLEFMIKNSVTDGLQFI  
RNRQKFQPYPMEDITVVITLCRILDAFFDFMGKNGGFEQSDDLNDTSSKEANSQRESVTF  
KDIEKR DENTWYPEKNPDKLTKIIQKLFVFAFTWAFGGALNREDEHRENIPFCPSLEPDS  
LAKVTYDFDKLVHELFGNSSQVGINLPTGEC SIFGYFVDIEQCEFI PWSDLVPNDQTLIQ  
RDNPTKKPEVRTNKKLLKNNDHKGVVSTINFSTNVTAATKEMILKKLIRRTKDTLGAP  
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VVNDISPRL LKHFSMLVLPHP SQDILCTIFQIGIDGCGKKTATLACYLTDNKLYRVPIS  
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KSVLP AFDKAIVALNALDKADVAELRVYTRPPFLVLTVMNAVCILLQKKPNWATAKLLLS  
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TTTANLMIRPEQSKDELVMEILSDLLKRLPLTVEKEEIVAGTPTSLKSMSSSIWESLSK  
NLKDHDPLIHCVLLTFLKQEKIRFDKLLFV IHKSLKDLQLA IKGEIILTQELEEIFNSFL

NMRVPTLWQKHAYRSCKPLSSWIDDLIQRLNFFNTWAKVAYTAIQRRYMRFVTVWKQSIP  
STSQKCKHPEDSENNFFEGFPSRYWLPAFFFPQAFLAAVLQDYGRSRGIAVDALTFTHHV  
ISNTTDKDEKFSVFMPPKKNIVRRAFKGSASSHTGVYIFGLFIEGARWNREQKILED  
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>sp|Q9NYC9|DYH9\_HUMAN Dynein heavy chain 9, axonemal OS=Homo sapiens GN=DNAH9 PE=1 SV=3

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VCGDLPAAPLEHLAALFSEVVLPLVLANEKNRLNWP  
HMICEDVRRHAHSLQCDSL  
VILEQV  
KGKTLPLPAGSEKMEFADSKSETVLD  
SIDKSVIYAIESAVIKWSYQVQVVLKRESSQPL  
LQGENPTPKVELEFWSRYEDLKYIYNQLRTITVRGMAKLLDKLQSSYFPAFKAMYRDV  
V  
AALAEAQDIHVHLIPLQRHLEALENAEFPEVKPQLRPLLHVCLIWATCKSYRSPGRLTV  
LLQEICNLLIQQASNYLSPEDLLRSEVEESQRKLQVVS  
DLSFFKQEFQDRRENLHTYFK  
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GKVEFSGVRGNALSQQVQ  
QMHEEFQEMYRLLSGSSSDCLYLQSTDFENDVSEFNQKVEDLDRRLGTIFIQAFDDAPGL  
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FYRQLVANLELMANWYNKVMKTLLEVEFPLVEEELQ  
NIDRLRAAEETLN  
WKTEGICDYVTEITSSIH  
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GVKGGFCDIVEGLITSIFRIP  
SLVPRLS  
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EEIEDHVEDGIPENPPLLSQFKVQIDSYETLYEEVCRLEPIKV  
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DFQGLVEIMGHMAV  
KERQSNTDEMFEPLKQTIELLKT  
YEQELPETVFKQLEELPEKWNN  
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QFWEQFHKEAPFRFDSIHPHQMLDA  
RHIEIQQMESTMASIS  
ESASLFEVNP  
PDYKQLRQCRKEVCQLKELWDTIGMVTSSIH  
AWE  
TTPWRNINVEAMELECKQFARHIRNLDKEV  
RAWDAFTGLESTVWNTLSSLR  
AVAELQNP  
AIRERHWRQLMQATGV  
SFTMDQDTLAHLLQLQLHHYEDEV  
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QTTWAGMEFQYEPHPRTN  
VPLLCSD  
EDLIEVLEDNQVQLQNLVMSKYVAFFLEEVSGWQK  
KLSTVDAVISIWFEVQRTWTHLESIFTGSE  
DIRAQLPQDSKRFEGIDIDFKELAYDAQKI  
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DIQGRCLCEKALAEYLDTKRLAFPRFYFLSSD  
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ANITHDG  
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EGIEPTVKQSISKMAFVHTSVNQTSQSYLSNEQRYNYTTPKSFLEFIRLYQSLLHRHRK  
ELKCKTERLENGLLKLHSTSAQVDDLKAKLAAQEVELKQKNEDADKLIQVVGVEDKVS  
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PPLAVSNVSAAMVLMAPRGRVPKDRSWKAAKVTMAKVDGFLDSLINFNKENIHENCLKA  
IRPYLQDPEFNPEFVATKSAAAGLCSWVINIVRFYEVFCDVEPKRQALNKATADLTAAQ  
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PALDPLRMLMDDADVAWQNEGLPADRMVENATILINCERWPLMVDPLQGIKWIKNKY  
GEDLRVTQIGQKGYLQIEQALEAGAVLLENLEESIDPVLGPLLGREVIKKGRFIKIGD  
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PVQTGTASPVEFLSHQAWGAVKVLSSMEEFNLDRIEGSAKSWKKFVESECEPEKEKLPQ  
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FILSPGVDPLKDVESQGRKLGTYFNNQNFHNVSLGQGEVVAEALDLAAKKGHWVILQN  
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GMHANLHKALDNFTQDTLEMCSTETFKSILFALCYFHAVVAERRKFGPQGWNRSYFNT  
GDLTISVNVLYNFLEANAKVPYDDLRYLFGELIMYGGHITDDWDRRLCRTYLGEFIRPEML  
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FPDLLNRIKELEAWTGDFTMPSTVWLTGFFNPQSFLTAIMQSTARKNEWPLDQMALQCDM  
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>sp|Q8NCM8|DYHC2\_HUMAN Cytoplasmic dynein 2 heavy chain 1 OS=Homo sapiens GN=DYNC2H1 PE=1  
SV=4

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VASWKGR LQEAKLQIKISGLLLEGCSFDGNQ LSENQLDSPSVSSVLP CFMGWIPQDACGP  
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>sp|P51808|DYLT3\_HUMAN Dynein light chain Tctex-type 3 OS=Homo sapiens GN=DYNLT3 PE=1  
SV=1

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>sp|Q7RTS9|DYM\_HUMAN Dymeclin OS=Homo sapiens GN=DYM PE=1 SV=1

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VFLSCQLFHKEVL RQSI SHKYL MRGPCLPYTSKLVKTLLYNFIRQEKP PPPGAHVFPQQS  
DGGGLLYGLASGVATGLWTVFTLGGVGSKAAASPELSSPLANQSL LLLLVLANLTDASDA  
PNPYRQAIMSFKN TQDSSFPSSIPHAFQINFNSLYTALCEQQTSDQATLLLYTLLHQNS  
NIRTYMLARTDMENLVLP ILEILYHVEERN SHHVYMALIILLILTEDDGFNRSIHEVILK  
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AAQRIISLFSLLSKHKNVLEQATQSLRGSLSNDVPLPDYAQDLNVI EEVIRMMLEIIN  
SCLTNSLHHNP NLVYALLYKRD LFEQFRTHPSFQDIMQNIDLVISFFSSRLLQAGAELSV  
ERVLEIIKQGVVALPKDRLKKFP ELKFYVEEEQPEEFFIPYVWSLVYNSAVGLYWN PQD  
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>sp|Q05193|DYN1\_HUMAN Dynamin-1 OS=Homo sapiens GN=DNM1 PE=1 SV=2

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QAQRRDEMLRMYHALKEALSIIIGDINTTTVSTPMPPPVDSDWLQVQSVAPARRSPTSSPT  
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>sp|Q92630|DYRK2\_HUMAN Dual specificity tyrosine-phosphorylation-regulated kinase 2  
OS=Homo sapiens GN=DYRK2 PE=1 SV=3

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FELLSMNLIELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRI IHCDLKPENILLKQQG  
RSGIKVIDFGSSCYEHQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAE LLTGYP  
LLPGEDEGDQLACMIELLGMPSQKLLDASKRAKNFVSSKGYPRYCTVTTLSDGSVVLNGG  
RSRRGKLRGPPESREWGNALKGCD DPLFLDFLKQCLEWDPAVRMTPGQALRHPWLRRLRP  
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>sp|Q86YF9|DZIP1\_HUMAN Zinc finger protein DZIP1 OS=Homo sapiens GN=DZIP1 PE=1 SV=1

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KNVMEDPFPRKSSTITTPPFSSEEEQEDDDLIRAYASPGPLPVPPPQNKGSFGKNTVKSD  
ADGTEGSEIEDTDDSPKPAGVAVKTPTEKVEKMFPHRKNVKNKPVGGTNVPEMF IKKEELQ  
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>sp|Q01094|E2F1\_HUMAN Transcription factor E2F1 OS=Homo sapiens GN=E2F1 PE=1 SV=1

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SPGEKSRYETSLNLTTRKFLELLSHSADGVVDLNWAAEVLKVQKRRIYDITNVLEGIQLI  
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ETVGGISPGKTPSQEVTSEEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLLS  
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>sp|P43003|EAA1\_HUMAN Excitatory amino acid transporter 1 OS=Homo sapiens GN=SLC1A3 PE=1  
SV=1

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MRVVYYMTTIIIAVVGIIIVIIHPGKGTENMHREGKIVRVTAADAFDLIRNMFPP  
NLVEACFKQFKTNYEKRSFKVPIQANETLVGAVINNVSEAMETLTRITEELVPVPGSVNG  
VNALGLVVFSMCFGVIGNMKEQGQALREFFDLSLNEAIMRLVAVIMWYAPVGILFLIAGK  
IVEMEDMGVIGGQLAMYTIVTVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITAL  
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LNFGQIITISITATAASIGAAGIPQAGLVTMVIVLTSVGLPTDDITLIIAVDWFLDRLRT  
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KM

>sp|P43005|EAA3\_HUMAN Excitatory amino acid transporter 3 OS=Homo sapiens GN=SLC1A1 PE=1  
SV=2

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TQKVGEIARTGSTPEVSTVDAMLDLIRNMFENLVQACFQQYKTKREEVKPPSDPEMNMT  
EESFTAVMTTAISKNTKEYKIVGMYSDGINVLGLIVFCLVFGLVIGKMGEKGQILVDFD  
NALSDATMKIVQIIMCYMPLGILFLIAGKIIIEVEDWEIFRKLGLYMATVLTGLAIHSIVI  
LPLIYFIVVRKNPFRFAMGMAQALLTALMISSSSATLPVTRCAEENNQVDKRITRFVLP  
VGATINMDGTALYEAAVFIQALNDLDLGIGQIITISITATSASIGAAGVPQAGLVTMV  
IVLSAVGLPAEDVTLIIAVDWLLDRFTMVNVLGDAFGTGIVEKLSKKELEQMDVSSEVN  
IVNPFALSTILDNEDSDTKKSYVNGGFAVDKSDTISFTQTSQF

>sp|Q96F86|EDC3\_HUMAN Enhancer of mRNA-decapping protein 3 OS=Homo sapiens GN=EDC3 PE=1  
SV=1

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TDVKSQDVAVSPQQQCSKSYVDRHMESLSQSKSFRRRHNSWSSSRHPNQAATPKKSGLK  
NGQMKNKDDECFGDDIEEIPDITDFEGLNALFDKAAVFEEIDTYERRSGTRSGIPNER  
PTRYRHDENIIESEPIVYRRIIVPHNVSKEFCTDSGLVVPISYELHKKLLSVAEKHGLT  
LERRLEMTGVCASQMALTLGGPNRLNPKNVHQRPTVALLCGPHVKGAGQISCGRHLANH  
DVQVILFLPNFVKMLESITNELSLFSKTQGGQVSSLKDLPTSPVDLVINCLDCPENVFLR  
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>sp|Q7L9B9|EEDP1\_HUMAN Endonuclease/exonuclease/phosphatase family domain-containing  
protein 1 OS=Homo sapiens GN=EEDP1 PE=1 SV=2

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EQQPHHLATAVPLTPRVNINTATPAQLMSVRGLSEKMALSI VDFRREHGPF RSVEDLV RM  
DGINAAFLDRIRHQVFAERSRPPSTHTNGGLTFTAKPHPSPTSLSLQSEDL DLPPGGPTQ  
IISTRPSVEAFGGTRDGRPVLRLATWNLQGCSVEKANNPGVREVVCMTLLENSIKLLAVQ  
ELLDREALEKFCTELNQPTLPNIRKWKGPGRGCWKAVVAEKPSSQLQKGAGYAGFLWDAAA  
GMELRDAGSQESSPSNGHGKLAGSPYLG RFKVGS HDLTLVNLHLAALTLLGSENPSKNH  
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>sp|P13639|EF2\_HUMAN Elongation factor 2 OS=Homo sapiens GN=EEF2 PE=1 SV=4

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VTDGALVVVDCVSGVCVQTETVLRQAIAERIKPVLMMNKM DRALLELQLEPEELYQTFQR  
IVENVNVIIISTYGEGESGPMGNIMIDPVLGTVGFGSLHGWAF TLKQFAEMYVAKFAAKG  
EGQLGPAERAKKVEDMMKKLWGD RYFDPANGKFSKSATSPEGKKLPRTFCQLILDPIFKV  
FDAIMNFKKEETAKLIEKLDIKL DSEDKKEGKPLLKAVMRRWLPAGDALLQMITIHLPS  
PVTAQKYRCELLYEGPPDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGL  
VSTGLKVRIMGPNYTPGKKEDLYLKPIQRTILMMGRYVEPIEDVPCGNIVGLVGVDQFLV  
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RLYMKARPPFDGLAEDIDKGEVSARQELKQRARYLAEKYEWDAEARKIWCFGPDGTGPN  
ILTDITKG VQYLNEIKDSV VAGFQWATKEGALCEENMRGVRFDVHDTV LHADA IHRGGGQ  
IIPTARRCLYASVLT AQPRLMEPIYLVEIQCP EQVVGGIYGVLNRKRGHVF EESQVAGTP  
MFVVKAYLPVNESFGFTADLR SN TGGQAF PQCVFDHWQILPGDPDNSSRPSQVVAETRK  
RKGLKEGIPALDNFLDKL

>sp|Q9BUY7|EFC11\_HUMAN EF-hand calcium-binding domain-containing protein 11 OS=Homo sapiens GN=EFCAB11 PE=2 SV=1

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DSVMSSINPNTSGILLEGFLNIVRKKKEAQRYRNEVRHIFTAFDTYYRGFLTLED FK KAF  
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>sp|Q15768|EFNB3\_HUMAN Ephrin-B3 OS=Homo sapiens GN=EFNB3 PE=1 SV=1

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SPNLWGHEFRSHHDYIIATSDGTREGLES LQGGVCLTRGMKVLLRVGQSPRGGAVPRKP  
VSEMPMERDRGAHSL EPGKENLPGDPTSNATSRGAEGPLPPPSMPAVAGAAGGLALLLL  
GVAGAGGAMCWRRRRAKPSES RHPGPGSFGRGSLGLGGGGMGPREAEPGELGIALRGG  
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>sp|POC7U0|ELFN1\_HUMAN Protein ELFN1 OS=Homo sapiens GN=ELFN1 PE=1 SV=2

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RNLTEGMLRGLGKLEYLYLQANLIEVVMAS SFWECPNIVNIDLSMNRIQQLNSGTFAGLA  
KLSVCELYSNPFYCCELLGFLRWLA AFTNATQTYDRMQCESPPVSGYLLGQGRRGHR  
SILSKLQSVCTEDSYAAEVGPPRPASGRSQPGRSPPPPPPEPSDMPCADDECFSGDGT  
TPLVALPTLATQAEARPLIKVKLTQNSATITVQLSPFHRMYTLEHFNN SKASTVSRLT  
KAQEEIRLTNLFTLTNYTYCVVSTSAGLRHNHTCLTICLPRLSPPGPVPS PSTATHYIM

TILGCLFGMVLVLGAVYYCLRRRRRQEEKHKAASAAAAGSLKKTIIELKYGPELEAPGL  
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PPPPPPHEGLGRKASILEPLTRPRPRDLAYSQLSPQYHLSYSSSPEYTCRASQSIWERF  
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>sp|Q15370|ELOB\_HUMAN Transcription elongation factor B polypeptide 2 OS=Homo sapiens  
GN=TCEB2 PE=1 SV=1

MDVFLMIRRHKTITFTAKESSTVFELKRIVEGILKRPPDEQRLYKDDQLDDGKTLGEC  
GFTSQTARPAATVGLAFRADTFEALCIEPFSSPELPDVMKPPQDSGSSANEQAVQ

>sp|Q9HB03|ELOV3\_HUMAN Elongation of very long chain fatty acids protein 3 OS=Homo sapiens  
GN=ELOVL3 PE=1 SV=2

MVTAMNVSHEVNQLFQYPNFELSKDMRPFEEYWATSFPIALYLVLIAGQNYMKERKG  
FNLQGPLILWSFCLAIFSILGAVRMWGIMGTVLLTGGLKQTVCFINFIDNSTVKFWSWVF  
LLSKVIELGDTAFIILRKRPLIFIHWHSTVLVYTSFGYKNKVPAGGWFTMNFGVHAI  
MYTTYTLKAANVKPPKMLMLITSLQILQMFVGAIVSILTYIWRQDQGCHTTMEHLFWSF  
ILYMTYFILFAHFFCQTYIRPKVKAKTKSQ

>sp|Q9GZR5|ELOV4\_HUMAN Elongation of very long chain fatty acids protein 4 OS=Homo sapiens  
GN=ELOVL4 PE=1 SV=1

MGLDSEPGSVLNVSTALNDTVEFYRWTWSIADKRVENWPLMQSPWPTLSISTLYLLFV  
WLGPKWMKDREPFQMLVLIIYNFGMVLLNLFIFRELFMGSYNAGYSYICQSDYSNNVH  
EVRIAAALWWYFVSKGVEYLDTVFFILRKKNNQVSFLHVYHHCTMFTLWWIGIKWVAGGQ  
AFFGAQLNSFIHVIMYSYYGLTAFGPWIKYLWWKRYLTMLQLIQFHTIGHTALSLYTD  
CPFPKWMHWALIAYAISFIFLFLNFYIRTYKEPKPKAGKTAMNGISANGVSKSEKQLMI  
ENGKKQKNGKAKGD

>sp|A1L3X0|ELOV7\_HUMAN Elongation of very long chain fatty acids protein 7 OS=Homo sapiens  
GN=ELOVL7 PE=1 SV=1

MAFSDLTSRTVHLYDNWIKDADPRVEDWLLMSSPLPQTILLGFYVYFVTSLGPKLMENRK  
PFELKKAMITYNFFIVLFSVVMCYEFVMSGWGIGYSFRCDIVDYSRSPALRMARTCWLY  
YFSKFIELLDITFFVLRKKNQVTFHLVHFHTIMPWTWWFGVKFAAGGLGTFHALLNTAV  
HVMYSYYGLSALGPAYQKYLWWKKYLTSLQLVQFVIVAIHISQFFFMEDCKYQFPVFAC  
IIMSYSFMFLLLFLHFWRAYTKGQRLPKTVKNGTCKNKDN

>sp|Q9H9T3|ELP3\_HUMAN Elongator complex protein 3 OS=Homo sapiens GN=ELP3 PE=1 SV=2

MRQKRKGDLSPAELMMLTIGDVIKQLIEAHEQKIDIDLNKVKTKTAAKYGLSAQPRLVDI  
IAAVPPQYRKVLMPKLKAKPIRTASGIAVAVMCKPHRCPHISFTGNICVYCPGGPDSDF  
EYSTQSYTGYEPTSMRAIRARYDPFLQTRHRIEQLKQLGHSVDKVEFIVMGGTFMALPEE  
YRDYFIRNLHDALSGHTSNNIYEAVKYSERSLTKCIGITIETRPDYCMKRHLSDMITYGC  
TRLEIGVQSVYEDVARDTNRGHTVKAVCESFHLAKDSGFKVVAHMPDLPNVGLERDIEQ  
FTEFFENPAFRPDGLKYPTLVIRGTGLYELWKSGRYKSYSPDLVELVARILALVPPWT  
RVYRVQRDIPMLVSSGVEHGNLRELALARMKDLGIQCRDVRTREVGIQEIHHKVRPYQV  
ELVRRDYVANGGWETFLSYEDPDQDILIGLLRLRKCEETFRFELGGGVSIIVRELHVGVS  
VVPVSSRDPTKFQHQFGMLLMEEAERIAREEHSGSKIAVISGVGTRNYRKIGYRLQGP  
YMKMLK

>sp|Q32P44|EMAL3\_HUMAN Echinoderm microtubule-associated protein-like 3 OS=Homo sapiens  
GN=EML3 PE=1 SV=1

MDGAAGPGDGPAREALQSLSQLRLRVQEQEMELVKAALAEALRLLRLQVPPSSLQSGSTPA  
PPGDSLAAPPGLPPTCTPSLVSRGTQTETEVELKSSPGPPGLSNGPPAPQGASEEPSGTQ  
SEGGGSSSSGAGSPGPPGILRPLQPPQRADTPRRNSSSSSSPSERPRQKLSRKAISSANL  
LVRSGSTESRGGKDPLSSPGGPGSRRSNYNLEGISVKMFLRGRPITMYIPSGIRSLEELP  
SGPPPETLSLDWVYGYRGRDSRNLFLVLRSGEVVYFIACVVVLYRPGGGPGGGGGGQRH  
YRGHTDCVRCLAVHPDGVRVASGQTAGVDKDGKPLQPVVHIWDSETLLKLQEIGLGAFFER  
GVGALAFSAADQGAFLCVVDDSNHMLSVWDCSRGMKLAIEKSTNDSVLAVGFNPRDSSC  
IVTSGKSHVHFNNWSGGVGVPGNGTLTRKQGVFGKYKKPKFIPCFVFLPDGDILTGDSEG  
NILTWRSPSDSKTPGRGGAKETYGIVAQAHAHEGSIFALCLRRDGTVLSSGGGRDRRLVQ  
WGPGLVALQEAEIPEHFAGAVRAIAEGLGSELLVGTTKNALLRGDLAQGFSPVIQHTDEL  
WGLCTHPSQNRFLTTCGHDRQLCLWDGESHALAWSIDLKETGLCADFHPGAVVAVGLNTG  
RWLVLDTETREIVSDVIDGNEQLSVVRYSPDGLYLAIGSHDNVIYIYSVSSDGAKSSRFG  
RCMGHSSFITHLDWSKDNFIMNSGDYEILYWDVAGGCKQLKNRYESRDREWATYTCVL  
GFHVYGVWPDGSDGTDINSLCRSHNERVVAVADDFCKVHLFQYPCARAKAPSRMYGGHGS  
HVTSVRFTHDDSHLVSLGGKDasIFQWRVLGAGGAGPAPATPSRTPSLSPASSLDV

>sp|Q15006|EMC2\_HUMAN ER membrane protein complex subunit 2 OS=Homo sapiens GN=EMC2 PE=1  
SV=1

MAKVSELYDVTWEEMRDKMRKWREENS RNSEQIVEVGEELINEYASKLGDDIWIIEYQVM  
IAALDYGRDDLALFCLQELRRQFPGSHRVKRLTGMRFEAMERYDDAIQLYDRILQEDPTN  
TAARKRKIAIRKAQGNVEAIRELNEYLEQFVGDAQEAWHELAELYINEHDYAKAAFCLEE  
LMMTNPHNHYLCQQYAEVKYTQGGLENLELSRKYFAQALKLNNRNMALFGLYMSASHIA  
SNPKASAKTKKDNMKYASWAASQINRAYQFAGRSKKETKYSLKAVEDMLETLQITQS

>sp|Q9NT22|EMIL3\_HUMAN EMILIN-3 OS=Homo sapiens GN=EMILIN3 PE=2 SV=2

MGRRRLLVWLCAVAALLSGAQARGTPLLARPAPP GASRYSLYTTGWRPRLRPGPHKALCA  
YVVHRNVTCLQEGAESYVKAERYQCRWGPKCPGTVTYRTVLRPKYKVGYKTVTDLAWRC  
CPGFTGKRCPEHLTDHGAASPLEPEPQIPSGQLDPGPRPPSYSRAAPSPHGRKGPGFLG  
ERLERLEGDVQRLAQTYGTLSGLVASHEDPNRMTGGPRAPAVPVGFGV IPEGLVPGDRA  
RGPLTPPLDEILSKVTEVSNTLQTKVQLLDKVHGLALGHEAHLQRLREAPPSPLTSLALL  
EEYVDRRLHRLWGSLLDGFQKLQGVQSECDLRVQEVRRQCEEGQAASRRLHQSLDGREL  
ALRQELSGLQGLSVSGRSGCCQLALINARMDGLERALQAVTETQRGPGAPAGDEL  
TRLSAAMLEGGVDGLLEGLETLNGTEGGARGCCLRLDMGGWGVGGFGTMLEERVQSLEER  
LATLAGELSHDSASPGRSARPLVQTELAVLEQRLVSLETSCTPSTTSAILDSLVAEVKAW  
QSRSEALLRQVASHAALLQQLNGTVAEVQQLAEGTGSSLQGEITLLKVNLSVSKSLTG  
LSDSVSQYSDAFLAANTSLDERERKVEAEVQAIQEQVSSQGSRLQAGHRQVLNLRGELEQ  
LKAGVAKVASGLSRCQDTAKLQHTVGHFDQRVAQVEGACRRLGLLAAGLDSLPTPLRP  
REGLWSHVDQLNRTLAQHTQDIARLRDLDLDCQAQLAEQVRPGQAN

>sp|P54852|EMP3\_HUMAN Epithelial membrane protein 3 OS=Homo sapiens GN=EMP3 PE=1 SV=1

MSLLLLVVSALHILILILLFVATLDKSWWTLPGKESLNLWYDCTWNNDTKTWACSNVSEN  
GWLKAVQVLMVLSLILCCLSFILFMFQLYTMRRGGLFYATGLCQLCTSVAVFTGALIYAI  
HAEEILEKHPRGGSFGYCFALAWVAFPLALVSGIIYIHLRKRE

>sp|O94919|ENDD1\_HUMAN Endonuclease domain-containing 1 protein OS=Homo sapiens GN=ENDOD1  
PE=1 SV=2

MGTARWLALGSLFALAGLLEGRLVGEEAAGFGCEDKFFYAGTPPAGLAADSHVKICQRAE  
GAERFATLYSTRDRIPVYSAFRAPRPAPGGAEQRWLVEPQIDDPNSNLEEAINAEAIT  
VNSLGSKQALNTDYLDSDYQRGQLYPFSLSSDVQVATFTLTNSAPMTQSFQERWYVNLHS  
LMDRALTPQCGSGEDLYILTGTVPSPDYRVKDKVAVPEFVWLAACCAVPGGGWAMGFVKHT  
RDSDIIEDVMVKDLQKLLPFNPQLFQNNCGETEQDTEKMKKILEVVNQIQDEERMVQSQK  
SSSPLSSTRSKRSTLLPPEASEGSSSFLGKLMGFIATPFIKLFQLIYYLVVAILKNIVYF  
LWCVTQKQVINGIESCLYRLGSATISYFMAIGEELVSIPWVKLVVAKVIRALLRILCCLL  
KAICRVLSIPVRVLVDVATFPVYTMGAIPVCKDIALGLGGTVSLLFDTAFGTLGGLFQV  
VFSVCKRIGYKVTFDNSGEL

>sp|Q7L5Y1|ENOF1\_HUMAN Mitochondrial enolase superfamily member 1 OS=Homo sapiens  
GN=ENOSF1 PE=1 SV=1

MVRGRISRLSVRDVRFPSTSLGGHGADAMHTDPDYSAAYVVIETDAEDGIKGCGITFTLGK  
GTEVVCAVNALAHVNLKDLKDIVGDFRGFYRQLTSDGQLRWIGPEKGVVHLATAAVLN  
AVWDLWAKQEGKPVWKLVDMDPRMLVSCIDFRYITDVLTEEDALEILQKGQIGKKEREK  
QMLAQGYPAYTTSCAWLGYSDTLKQLCAQALKDGTFRKVKVGADLQDDMRRCQIIRDM  
IGPEKTLMDANQRWDVPEAVEWMSKLAKFKPLWIEEPTSPDDILGHATISKALVPLGIG  
IATGEQCHNRVIFKQLLQAKALQFLQIDSCRLGSVNENLSVLLMAKKFEIPVCPHAGGVG  
LCELVQHLLIFDYISVSASLENRVCEYVDHLHEHFYKYPVMIQRASYMPPKDPGYSTEMKE  
ESVKKHQYPDGEVWKKLLPAQEN

>sp|P09104|ENOG\_HUMAN Gamma-enolase OS=Homo sapiens GN=ENO2 PE=1 SV=3

MSIEKIWAREILDSRGNTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLGK  
GVLKAVDHINSTIAPALISSGLSVVEQEKLNLMLELDGTENKSKFGANAILGVSLAVCK  
AGAAERELPLYRHIAQLAGNSDLILPVPFNVINGGSHAGNKLAMQEFMILPVGAESFRD  
AMRLGAEVYHTLKGVIKDKYKDATNVGDEGGFAPNILENSEALELVKEAIDKAGYTEKI  
VIGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDD  
WAAWSKFTANVGIIQVGGDLTVTNPKRIERAVEREACNCLLLKVNQIGSVTEAIQACKLA  
QENGWGMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGDE  
ARFAGHNFRNPSVL

>sp|Q07864|DPOE1\_HUMAN DNA polymerase epsilon catalytic subunit A OS=Homo sapiens GN=POLE  
PE=1 SV=5

MSLRSGRRRADPGADGEASRDDGATSSVSALKRLERSQWTDKMDLRFGERLKEPGEKT  
GWLINMHPTEILDEDKRLGSAVDYYFIQDDGSRFKVALPYKPYFYIATRKGCEREVSSFL  
SKKFQGGKIAKVETVPKEDLDLPNHLVGLKRNYIRLSFHTVEDLVKVRKEISPAVKKNREQ  
DHASDAYTALLSSVLQRRGVITDEEETSKKIADQLDNIVDMREYDVPYHIRLSIDLKIHV  
AHWYNVRYRGNAFPVEITRRDDLVERPDVVLAFDIETTKLPLKFPDAETDQIMMISYMI  
DGQGYLITNREIVSEDIEDFEFTPKPEYEGPFCVFNEPDEAHLIQRWFEHVQETKPTIMV  
TYNGDFFDWPFVEARA AVHGLSMQQEIGFQKDSQGEYKAPQCIIHMDCLRWWKRDSYLPVG  
SHNLKAAAKAKLGYDPVELDPEDMCRMATEQPQTLATYSVSDAVATYYLYMKYVHPFIFA  
LCTIIPMEPDEVLRKSGTLCEALLMVQAFHANIIFPNKQE QEFNKL TDDGHVLDSETYV  
GGHVEALESGVFRSDIPCRFRMNPAAFD FLLQRVEKTLRHAAAAEKKVPVEQVTNFEEVC  
DEIKSKLASLKDVP SRIECL IYHLDVGAMYPNII LTNRLQPSAMVDEATCAACDFNKP  
GANCQRKMAWQWRGEFMPASRSEYHRIQHQL ESEKFPPLFPEGPARAFHELSREEQAKYEK  
RRLADYCRKAYKKIHITKVEERLTTICQRENSFYVDTVRAFRDRRYEFKGLHKVWKKKLS  
AAVEVGDAAEVKRCKNMEVLYDSLQLAHKCILNSFYGYVMRKGARWYSMEMAGIVCFTGA

NIITQARELIEQIGRPLELDTDGIWCVLPNPSPENFVFKTTNVKKPKVTISYPGAMLNIM  
VKEGFTNDQYQELAEPSSTYVTRSENSIFFEVDGPYLAMILPASKEEGKKLKKRYAVFN  
EDGSLAELKGFEVKRRGELQLIKIFQSSVFEAFKLGSTLEEVYGSVAKVADYWLDVLYSK  
AANMPDSELFELISENRSMSRKLEDYGEQKSTSISTAKRLAEFLGDQMVKDAGLSCRYII  
SRKPEGSPVTERAIPLAIFQAEPVTRKHFLRKWLKSSSLQDFDIRAILDWDYYIERLGS  
IQKIITIPAALQQVKNPVPVRVHPDWLHKKLLEKNDVYKQKKISELFTLEGRRQVTMAEA  
SEDSRPSAPDMEDFGLVKLPHPAAPVTVKRKRVLWESQESQDLTPTVPWQEILGQPPA  
LGTSQEEWLWVLRHFHKKWQLQARQRLARRKRQRLESAEGVLRPGAIRDGPATGLGSFLR  
RTARSILDLPWQIVQISETSQAGLFRLWALVGSDLHCIRLSIPRVFYVNRVAKAEEGAS  
YRKVNRVLRPSNMVYNLYEYSVPEDMYQEHINEINAELSAPDIEGVYETQVPLLFRALVH  
LGCVCVVKQLVRHLSGWEAETFALHLEMRSLAQFSYLEPGSIRHIYLYHHAQAHKALF  
GIFIPSQRRASVFLDTRSNQMPSLGALYSAEHLLLEKVGPELLPPPHTFEVRAETD  
LKTICRAIQRFLLAYKEERRGPTLIAVQSSWELKRLASEIPVLEEFPLVPICVADKINYG  
VLDWQRHGARRMIRHYLNLDTCLSQAFEMSRYFHPIGNLPEDISTFGSDLFFARHLQRH  
NHLLWLSPTARPDLGGEADDNCLVMEFDDQATVEINSSGCYSTVCVELDLQNLAVNTIL  
QSHHVNDMEGADSMGISFDVIQQASLEDMITGGQAASAPASYDETALCSNTFRILKSMVV  
GWVKEITQYHNIYADNQVMHFYRWLRSPSSLLHDPALHRTLHNMMKKLFLQLIAEFKRLG  
SSVIYANFNRIILCTKKRRVEDAIAYVEYITSSIHSKETFHSLTISFSRCWEFLWMDPS  
NYGGIKGKVSSRIHCGLQDSQKAGGAEDEQENEDDEEERDGESEEEAEESENVEDLLENW  
NILQFLPQAASCQNYFLMIVSAYIVAVYHCKMDGLRRSAPGSTPVRRRGASQLSQEAGA  
VGALPGMITFSQDYVANELTQSFFTITQKIQKKVTGSRNSTELSEMFPVLPGSHLLNPN  
ALEFIKYVCKVLSLDTNITNQVNKLNRDLLRLVDVGEFSEEAQFRDPCRSYVLPEVICRS  
CNFCRDLDLCKDSSFSQDGAFLPQWLCNSCQAPYDSSAIEMTLVEVLQKKLMAFTLQDLV  
CLKCRGVKETSMPVYCSCAGDFALTIHTQVFMEQIGIFRNIAQHYGMSYLLLETLEWLLQK  
NPQLGH

>sp|Q9UHN1|DPOG2\_HUMAN DNA polymerase subunit gamma-2, mitochondrial OS=Homo sapiens  
GN=POLG2 PE=1 SV=1

MRSRVAVRACHKVCRLSSGFGGRVDAGQPELLTERSSPKGGHVKSHAELEGNGEHPEAP  
GSGEGSEALLEICQRRHFLSGSKQQLSRDSLLSGCHPGFGPLGVELRKNLAAEWTSVVV  
FREQVFPVDALHHKPGPLPGDSAFRLVSAETLREILQDKELSKEQLVAFLENVLKTSKG  
LRENLLHGALEHYVNCLDLVNKRLPYGLAQIGVCFHPVFDTKQIRNGVKSIGEKTEASLV  
WFTPPRTSNQWLDWFLRHRLQWWRKFAFSPSNFSSDCQDEEGRKGNLYNFPWGKELI  
ETLWNLGDHELLHMYPGNVSKLHGRDGRKNVPCVLSVNGDLDRGMLAYLYDSFQLTENS  
FTRKKNLHRKVLKLHPCLAIPKVALDVGRGPTLELRQVCQGLFNELLENGISVWPGYLET  
MQSSLEQLYSKYDEMSILFTVLVTETTLENGLIHLRSRDTMKEMMHISKLKDFLIKYSIS  
SAKNV

>sp|Q8TB45|DPTOR\_HUMAN DEP domain-containing mTOR-interacting protein OS=Homo sapiens  
GN=DEPTOR PE=1 SV=2

MEEGGSTGSAGSDSTSGSGGAQQRELERMAEVLVTGEQLRLRLHEEKVIKDRRHHLKTY  
PNCVFAKELIDWLEHKEASDRETAIKLMQKLADRGIIHVCDEHKEFKDVKLFYRFRKD  
DGTFPDLNEVKAFMRGQRLYEKLMSPENTLLQPREEEGVKYERTFMASEFLDWLVQEGEA  
TTRKEAEQLCHRLMEHGI IQHVS NKHPFVDSNLLYQFRMNFRRRRRLMELLNEKSPSSQE  
THDSPFCLRKQSHDNRKSTSFMSVSPSKEIKIVSAVRRSSMSSCGSSGYFSSSPTLSSSP  
PVLCPKSVLKRPTSEELLTPGAPYARKTFTIVGDAVGWGFVVRGSKPCHIQAVDPSGP

AAAAGMKVCQFVSVNGLNVLHVDYRTVSNLILTGPRTIIVMEVMEELEC

>sp|P05538|DQB2\_HUMAN HLA class II histocompatibility antigen, DQ beta 2 chain OS=Homo sapiens GN=HLA-DQB2 PE=1 SV=2

MSWKMALQIPGGFWAAAVTVMLVMLSTPVAEARDFPKDFLVQFKGMCYFTNGTERVRGVA  
RYIYNREEYGRFDSVDVGEFQAVTELGRSIEDWNNYKDFLEQERAADVCKVRHNYEAEELRT  
TLQRQVEPTVTISPSRTEALNHHNLLVCSVTDYFPAQIKVRWFRNDQEETAGVVSTSLIR  
NGDWTFFQILVMLEITPQRGDIYTCQVEHPSLQSPITVEWRAQSESAQSKMLSGIGGFVLG  
LIFLGLGLIIRHRGQKGRGPPAGLLH

>sp|Q9Y295|DRG1\_HUMAN Developmentally-regulated GTP-binding protein 1 OS=Homo sapiens GN=DRG1 PE=1 SV=1

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEFDDVA  
KTGDARIGFVGFPSVGKSTLLSNLAGVYSEVAAEFTTLTTPGVIRYKGAKIQLLDLP  
GIIIEGAKDGKGRGRQVIIVARTCNLILIVLDVLKPLGHKKIIEENELEGFGIRLNSKPPNIG  
FKKKDKGGINLTATCPQSELDATVKSILAEYKIHNADVTLRSDATADDLIDVVEGNRVY  
IPCIYVLNKIDQISIEELDIYKVPKCVPISAHHRWNFDDLEKIWDYLLKLVRIYTKPKG  
QLPDYTSPPVLPYSRTTVEDFCMKIHKNLIKEFKYALVWGLSVKHNPQKVGKDHTLEDED  
VIQIVKK

>sp|A6NNA5|DRGX\_HUMAN Dorsal root ganglia homeobox protein OS=Homo sapiens GN=DRGX PE=3 SV=1

MFYFHCPPQLEGTATFGNHSSGDFDDGFLRRKQRRNRTTFTLQQLEALEAVFAQTHYPDV  
FTREELAMKINLTEARVQVWFQNNRAKWRKTERGASDQEPGAKEPMAEVTPPPVRNINSP  
PPGDQARSKKEALEAQSLGRTVGPAGPFFPSCLPGTLLNTATYAQALSHVASLKGGLPLC  
SCCVPDPMGLSFLPTYGCQSNRTASVATLRMKAREHSEAVLQSANLLPSTSSSPGPVAKP  
APPDGSQEKTSPTKEQSEAEKSV

>sp|Q96FN9|DTD2\_HUMAN Probable D-tyrosyl-tRNA(Tyr) deacylase 2 OS=Homo sapiens GN=DTD2 PE=2 SV=1

MAEGSRIPQARALLQQCLHARLQIRPADGDVAAQWVEVQRGLVIYVCFKADKELLPKM  
VNTLLNVKLSETENGKHVSILDLPGNILIIIPQATLGGRLKGRNMQYHSNSGKEEGFELYS  
QFVTLCEKEVAANSKCAEARVVEHGTGYNRQVLKLDNTPFTHLIEF

>sp|Q8TDB6|DTX3L\_HUMAN E3 ubiquitin-protein ligase DTX3L OS=Homo sapiens GN=DTX3L PE=1 SV=1

MASHLRPPSPLLVRVYKSGPRVRRKLESYFQSSKSSGGGECTVSTQEHEAPGTFRVEFSE  
RAAKERVLKKGEHQILVDEKVPVIFLVPTENSICKNTRPQISSLTQSQAETPSGDMHQHE  
GHIPNAVDSCQKIFLTVTADLNCNLSKEQRAYITTLCPSSIRKMEGHDGIEKVCDFQD  
IERIHQFLSEQFLESEKQKQFSPSMTERKPLSQQERDSCISPSEPETKAEQKSNYFEVPL  
PYFEYFKYICPDKINSIEKRFGVNIIEQESSPNMVCLDFTSSRSGDLEAARESFASEFQK  
NTEPLKQECVSLADSKQANKFKQELNHQFTKLLIKEKGELTLLGTQDDISAAKQKISEA  
FVKIPVKLFAANYMMNVIEVDSAHYKLELLELLQEISEIEKRYDICKSVSEKGQKTCILF  
ESKDRQVDLSVHAYASFIDAFQHASCQLMREVLLLKSLGKERKHLHQTKFADDFRKRHPN  
VHFVLNQESMTLTGLPNHLAKAKQYVLKGGGMSSLAGKKLKEGHETPMDIDSDDSKAASP  
PLKGSVSSEASELDKKEKGICVICMDTISNKKVLPCKHEFCAPCINKAMSYKPICTCQ  
TSYGIQKGNQPEGSMVFTVSRDSLPGYESFGTIVITYSMKAGIQTEEHPNPGKRYPGIQR  
TAYLPDNKEGRKVLKLLYRAFDQKLIFTVGYSRVLGVSVDVITWNDIHHKTSRFGGPEMYG  
YPDPSYLKRVKEELKAKGIE

>sp|POCJ85|DU4L2\_HUMAN Double homeobox protein 4-like protein 2 OS=Homo sapiens GN=DUX4L2  
PE=3 SV=1

MALPTPSDSTLPAEARGRGRRRRLVWTPSQSEALRACFERNPYPGIATREERLAQAIGIPE  
PRVQIWFQNSRQLRQHRRESRPWPGRGPPEGRKRRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRARHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSQAARAAPALQPSQAAPAEGVSQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQQGGVLA  
PPTSQGSPPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASASARQQMQGIPAPSQALQ  
EPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEAASLEAPLSEEEYRAL  
LEEL

>sp|095147|DUS14\_HUMAN Dual specificity protein phosphatase 14 OS=Homo sapiens GN=DUSP14  
PE=1 SV=1

MSSRGHSTLPRTLMAPRMISEGDIGGIAQITSSFLGRGSVASNRHLLQARGITCIVNAT  
IEIPNFNWPQFEYVKVPLADMHPAPIGLYFDTVADKIHSVSRKHGATLVHCAAGVSRSAT  
LCIAYLMKFHNVCLEAYNWVKARRPVIRPNVGFWRQLIDYERQLFGKSTVKMVQTPYGI  
VPDVYEKESRHLMPYWG I

>sp|Q9BY84|DUS16\_HUMAN Dual specificity protein phosphatase 16 OS=Homo sapiens GN=DUSP16  
PE=1 SV=1

MAHEMIGTQIVTERLVALLESGTEKVLLIDSRPFVEYNTSHILEAININCSKLMKRRLQQ  
DKVLITELIQHSAKHKVIDICSQKVVVYDQSSQDVASLSSDCFLTIVLLGKLEKSFNSVHL  
LAGGFAEFSRCFPLCEGKSTLVPTCISQPCLPVANIGPTRILPNLYLGCQRDVLNKELM  
QQNGIGYVLNASNTCPKPDFIPESHFLRVPVNDSCFKILPWLDKSVDFIEKAKASNGCV  
LVHCLAGISRSATIAIAYIMKRMDSLDEAYRFVKEKRPTISPNFNFLGQLLDYEKKIKN  
QTGASGPKSKLLHLEKPNPVPVAVSEGGQKSETPLSPCADSATSEAAGQRPVHPASV  
PSVPSVQPSLLEDSPLVQALSGLHLSADRLEDNKNLKRSLDIKSVSYSASMAASLHGF  
SSSEDALEYKYSTLTLDGNTKLCQFSPVQELSEQTPETSPDKEEASIPKKLQATARPSDSQ  
SKRLHSVRTSSSGTAQRSLLSPLHRSGSVEDNYHTSFLFGLSTSQQHLTKSAGLGLKGWH  
SDILAPQTSTPSLTSSWYFATESSHFYASAIYGGASAYSAYSCSQLPTCGDQVYSVRRR  
QKPSDRADSRRSWHEESPFEKQFKRRSCQMEFGESIMSENRSREELGKVGSSSFSGSME  
IIEVS

>sp|Q9BVJ7|DUS23\_HUMAN Dual specificity protein phosphatase 23 OS=Homo sapiens GN=DUSP23  
PE=1 SV=1

MGVQPPNFSWVLPGRLAGLALPRLPAHYQFLLDLGVRHLVSLTERGPPHSDSCPGLTLHR  
LRIPDFCPPAPDQIDRFVQIVDEANARGEAVGVHICALGFGRTGTMLACYLVKERGLAAGD  
AIAEIRRLRPGSIETYEQEKAVFYQRTK

>sp|Q4G0W2|DUS28\_HUMAN Dual specificity phosphatase 28 OS=Homo sapiens GN=DUSP28 PE=2  
SV=1

MGPAEAGRGAASPVPPPLVRVAPSLFLGSARAAGAEQLARAGVTLCVNVSRQQPGPRA  
PGVAELRVVPVFDPAEDLLAHLEPTCAAMEAAVRAGGACLVYCKNGRSRSAVCTAYLMR  
HRGLSLAKAFQMVKSARPVAEPNPGFWSQLQKYEEALQAQSQLQGEPPALGLGPEA

>sp|Q5VZP5|DUS27\_HUMAN Inactive dual specificity phosphatase 27 OS=Homo sapiens GN=DUSP27  
PE=2 SV=1

MATRKDTEEEQVVPSEEDANVRVQAHYLRSPSPSQYSMVSDAETESIFMEPIHLSSAI  
AAKQIINEELKPPGVRADAECPGMLESAEQLLVEDLYNRVREKMDDTSLYNTPCVLDLQR



ALVQDRQEAPWNEVDEVPNVFIAEKSVAVNKGRLKRLGITHILNAAHGTGVYTGPEFYT  
GLEIQYLGVEVDDFPEVDISQHFRKASEFLDEALLTYRGKVLVSSEMGISRSAVLVVAYL  
MIFHNMAILEALMTVRKKRAIYPNEGFLKQLRELNEKLMEEREEDYGREGGSAEAEEGEG  
TGSM LGARVHALTVEEEDDSASHLSGSSLGKATQASKPLTLIDEEEEKLYEQWKKGGGL  
LSDKVPQDGGGWSASSGQGGELEDEDVERIIQEWQSRNERYQAEGYRRWGREEEKEEE  
SDAGSSVGRRRRTLSESSAWESVSSHDIWVLKQQLNLNRPDHGRRRRRADSMSESTWDAW  
NERLLEIEKEASRRYHAKSKREEAADRSSEAGSRVREDEDESVGSEASSFYNFCSRNDK  
LTALERWKIKRIQFGFHKDLGAGDSSGEPGAEAVGEKNPSDVSLTAYQAWKLKHQKKV  
GSENKEEVVELSKGEDSALAKKRQRRELLERSRQTLSESQSMASWEADSSTASGSIPLS  
AFWSADPSVSADGDTTSLVSTQSHRSHLSQAASNIAGCSTSNPTTLPNLPVGP GDTISI  
ASIQNWIANVVSETLAQKQNEMLLLSRSPSVASMKAVPAASCLGDDQVSM LSGHSSSSLG  
GCLLPQSQARPSSDMQSVLSCNTTLSSPAESCRSKVRGTSKPIFSLFADNVDL KELGRKE  
KEMQMELREKMSEYKMEKLASDNKRSSLFKKKKVKEDDDGVGDGEDTDSAIGSFRYSS  
RSNSQKPETDTCSSLAVCDHYASGSRVGKEMDSSINKWLSGLRTEEKPPFQSDWSGSSRG  
KYTRSSLLRETESKSSSYKFSKSQSEEQDTSSYHEANGNSVRSTSRFSSSTREGREMHK  
FSRSTYNETSSSREESPEPYFFRRTPESSEREESPEPQRPNWARSRDWEDVEESSKSDFS  
EFGAKRKFTQSFMRSEEEGEKERTENREEGRFASGRRSQYRRSTDREEEEEEMDEAIIAA  
WRRRQEETRRTLQKRRED

>sp|Q13115|DUS4\_HUMAN Dual specificity protein phosphatase 4 OS=Homo sapiens GN=DUSP4  
PE=1 SV=1

MVTMEELREMDCSVLKRLMNRDENGAGGSGSHGTLGLPSGGKCLLLDCRPFLAHSAGY  
ILGSVNVRCNTIVRRRAKGSVSLEQILPAEEVVRARLRSGLYSAVIVYDERSPRAESLRE  
DSTVSLVVQALRNAERTDICLLKGGYERFSSEYPEFCSKTKALAAIPPPVPPSATEPLD  
LGCSSCGTPLHDQGGPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY  
QYKCI PVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR  
VRLEEAFFVVKRRSII SPNFSFMGQLLQFESQVLATSCAAEAASPSGPLRERGKTPATP  
TSQFVFSFPVSVGVHSAPSSLPYLHSPITTSpsc

>sp|Q16829|DUS7\_HUMAN Dual specificity protein phosphatase 7 OS=Homo sapiens GN=DUSP7  
PE=1 SV=4

MKNQLRGPPARA HMSTSGAAAAGGTRAGSEPGAGSGGAGTGAGAATGAGAMPCKSAEWL  
QEELEARGGASLLLLDCRPHELFESSHIETAINLAIPGLMLRRLRKGNLP IRSIIPNHAD  
KERFATRCKAATVLLYDEATAEWQPEPGAPASVLG LLLQKL RDDGCQAYYLQGGFNKFQT  
EYSEHCETNV DSSSPSSSPPTSVLGLGGLRISSDCSDGESDRELPS SATESDGSPVPSS  
QPAFPVQILPYLYLGCAKDSTNLDVLGKYGIKYILNVT PNL PNAFEHGGEFTYKQIPISD  
HWSQNL SQFFPEAISFIDEARSKKCVLVHCLAGISRSVTVTAYLMQKMNL SLNDAYDF  
VKRKKSNISPNFNFMGQLLDFERTLGLSSPCDNHASSEQLYFSTPTNHNLFPLNTLEST

>sp|Q6ZN92|DUTL\_HUMAN Putative inactive deoxyuridine 5'-triphosphate nucleotidohydrolase-  
like protein FLJ16323 OS=Homo sapiens PE=5 SV=1

MPVIPALGEAKGEVLPPGDTTTI IPLNWMLKSPPGHFGLLLLLSQQAKNGVMVLAGVTDP  
EYQDEISLLLHNEGHLKEVKMEGARLGLPGAESLEHQVQSHLNMIAQSQRTFQKKDAGK  
AII LSKLTQEQT KHC MFS LH

>sp|AOAVK6|E2F8\_HUMAN Transcription factor E2F8 OS=Homo sapiens GN=E2F8 PE=1 SV=1  
MENEKENLFC EPHKRGLMK TPLKESTTANIVLAEIQPDFGPLTTPTKPKEGSQGEPTPT  
ANL KMLISAVSPEIRNRDQKRGLFDNRSGLP EAKDCIHEHLSGDEF EKSQPSRKEKSLGL

LCHKFLARYPNYPNPAVNNDICLDEVAEELNVERRRIYDIVNVLES LHMVSRLAKNRYTW  
HGRHNLNKTGLTKSIGEENKYAEQIMMIKKKEYEQEFDFIKSYSIEDHIIKSNTGPNHG  
PDMCFVELPGVEFRAASVNSRKDKSLRVMSQKFVMLFLVSTPQIVSLEVA AKILIGEDHV  
EDLDKSKFKTKIRRLYDIANVLSSDLIKKVHVTEERGRKPAFKWTGPEISPNTSGSSPV  
IHFTPSDLEVRSSKENCAKNLFSTRGKPNFTRHPSLIKLVKSIESDRRKINSAPSSPIK  
TNKAESSQNSAPFPSKMAQLAAICKMQLEEQSSESQRKVQVLARSGPCKPVAPLDPPVN  
AEMELTAPSLIQPLGMVPLIPSPLSSAVPLILPQAPSGPSYAIYLQPTQAHQSVTPPQGL  
SPTVCTTHSSKATGSKDSTDATTEKAANDTSKASASTRPGSLLPAPERQGA KSRTREPAG  
ERGSKRASMLEDSGSKKKFKEDLKGLNV SATLFP SGYLIPLTQCSSLGAESILSGKENS  
SALSPNHRIYSSPIAGVIPVTSELTA VNFPSFHVTP LKLMVSPTSVA AVPVGN SPALAS  
SHPVPIQNPSAIVNFTLQHGLISP NVQLSASPGSGIVPVSPRIESVNVAPENAGTQQG  
RATNYDSPVPVGGSQPNGQSVAVTGAQQPVVTPKGSQ LVAESFFRTPGGPTKPTSSSCMD  
FEGANKTSLGTLFVPQRKLEVSTEDVH

>sp|Q96JC9|EAF1\_HUMAN ELL-associated factor 1 OS=Homo sapiens GN=EAF1 PE=1 SV=1  
MNGTANPLLDREEHCLRLGESFEKRPRASFHTIRYDFKPASIDTSCEGELQVGKGDEV TI  
TLPHIPGSTPPMTVFKGNRPYQKDCVLIINHDTGEYVLEKLSSSIQVKKTRAEGSSKIQ  
ARMEQQPTRPPQTSQPPPPPPMPFRAPTKPPVGPKTSPLKDNPSPEPQLDDIKRELRAE  
VDIEQMSSSSSGSSSDSESSSGSDDDSSSSGGEDNGPASPPQPSHQQPYNSRPAVANGT  
SRPQGSNQLMNTLRNDLQ LSESGSDSD

>sp|Q96CJ1|EAF2\_HUMAN ELL-associated factor 2 OS=Homo sapiens GN=EAF2 PE=1 SV=1  
MNSAAGFSHLDRRERVLKLGESFEKQPRCAFHTVRYDFKPASIDTSSEGYLEVGEGEQVT  
ITLPNIEGSTPPVTVFKGSKKPYLKECILIINHDTGECRLEKLSSNITVKKTRVEGSSKI  
QYRKEQQQQMWNSARTPNLVKHSPSEDKMSPASPIDIERELKAEASLMDQMSSCDSSS  
DSKSSSSSSSEDSSSDSEDEDCKSSTSDTGNCVSGHPTMTQYRIPDIDASHNRFRDNSGL  
LMNTLRNDLQ LSESGSDSD

>sp|Q9BY08|EBPL\_HUMAN Emopamil-binding protein-like OS=Homo sapiens GN=EBPL PE=1 SV=1  
MGAEWELGAEAGSLLLCAALLAAGCALGLRLGRGGAADRGALIWL CYDALVHFALEGP  
FVYLSLVGNVANSGLIASLWKEYGKADARWVYFDPTIVSVEILTVALDGLALFLIYAI  
VKEKYRHF LQITLCVCELYGCWMTFLPEWLTRSPNLNTSNWLYCWLYLFFFN GVWVLIP  
GLLLWQSWLELKKMHQKETSSVKKFQ

>sp|O60869|EDF1\_HUMAN Endothelial differentiation-related factor 1 OS=Homo sapiens  
GN=EDF1 PE=1 SV=1  
MAESDWDTVTVLRKKGPTAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKN TAK  
LDRETEELHHDRTLEVGVIIQQGRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQV  
LGKIERAIGLKLRGKDIGKPIEKGPRAK

>sp|P05305|EDN1\_HUMAN Endothelin-1 OS=Homo sapiens GN=EDN1 PE=1 SV=1  
MDYLLMIFSLLFVACQGAPETA VLGAE LSAVGENGGEKPTSPPPWRLRRSKRCSCSSLMD  
KECVYFCHLDIIWVNTPEHVVPYGLGSPRSKRALENLLPTKATDRENRCCASQKDKKCW  
NFCQAGKELRAEDIMEKDWNHKKGKDCSKLGKKCIYQQLVRGRKIRRSSEEHLRQTRSE  
TMRNSVKSSFHDPKLKGKPSRERYVTHNRAHW

>sp|Q3B7T1|EDRF1\_HUMAN Erythroid differentiation-related factor 1 OS=Homo sapiens  
GN=EDRF1 PE=1 SV=1  
MGDAKEAGAEGPPAGAAAARGGLSLLSQGESEESSAQGSALFLGGNEVKSRAVVKYSSAPP  
RTAFARLEEKTDLKLPPANWLRESAKLGPA GTTILGNSKSKPFSFGMAYDFIDSVGND

VDVSDSENIKKLLKIPYSKSHVSMVHRIGRTLALLDELDIQELFMRSSQTGDWTWLKEF  
YQRLIDQKWQRKKKSKEHWYQKAILSKFLYYSINGDGAAPVSSSTAEQQESSSSDQTNDS  
EGASWPAPFEMPSSVSEDPSASSQGSEPLEPSYIVGHVASAPKEQNLITLFDNGEHSQGL  
KNDFVRNILLWTFEDIHMLVGSNMPIFGGGRYPAVSLRLRDNNKPINVLTGIDYWLDNLIC  
NVPELVMCFHVNGIVQKYEMIKTEEIPNLENSNFSTKVIKDIAQNILSFLKSNCTKEGHT  
YWLFKASGSDIVKLYDLTTLCEETEDKYQNPFTMPVAIILYKVACNMMMKNNKKNKHGYT  
IRTLNLLNCLKLLDKSRHPQIIASANYMLSELFQLDEPKKEENSESPLNENSESYSEEEE  
EMPDSDENGSYSTSSDPSDDSKAVAIKSVGELSVPEKYKSIHQIRPSCAFPVCHDTEER  
CRLVLSYVLEGLKSVDSIIKKESDLPAADPSTPIPLKYEDSSRGGPEGLEKQMALFLDK  
MGSLLQKGNYSQSGMIPGSWQHMKMLQLILKSSKAYYVLSDAAMSLQKYGRALRYIKLAL  
QSHDITYCCLCTNMLESEVLLFSLQYLTLCGDIQLMLAQNANNRAAHLEEFHYQTKEDQEIL  
HSLHRESSCQGFATWDLSTDLESQSVSCKCYEAANEILQFSDLKSNPEHYVQVLKRM  
GNIRNEIGVFYMNQAAALQSERLVSKSVSAAEQQLWKKSFSCFEKGIHNFESIEDATNAA  
LLLNTGRLMRICAQAHGAGDELKREFSPEEGLYYNKAIDYYLKALRSLGTRDIHPAVW  
DSVNWELSTTYFTMATLQQDYAPLSRKAQEQIEKEVSEAMMKSLKYCDVSVSARQPLCQ  
YRAATIIHRLASMYHSLRNQVGDEHLRKQHRVLADLHYSKAAKLFQLLKDAPCELLRVQ  
LERVAFAEFQMTSQNSNVGKLTLSGALDIMVRTEHAFQLIQKELIEEFGQPKSGDAAAA  
ADASPSLNREEVMKLLSIFESLSFLLLQSIKLLSSTKKKTSNNIEDDTILKTNKHIYSQ  
LLRATANKTATLLERINVIVHLLGQLAAGSAASSNAVQ

>sp|Q05639|EF1A2\_HUMAN Elongation factor 1-alpha 2 OS=Homo sapiens GN=EEF1A2 PE=1 SV=1

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVL  
DKLKAERERGITIDISLWKFETTKYYITIIDAPGHRDFIKNMITGTSQADCAVLIVAAGV  
GEFEAGISKNGQTREHALLAYTLGVKQLIVGVNKMDSTEPAYSEKRYDEIVKEVSAYIKK  
IGYNPATVPFVPISGWHGDNMLESPNMPWFKGWKVERKEGNASGVSLLEALDTILPPTR  
PTDKPLRLPLQDVYKIGGIGTVPVGRVETGILRPGMVVTFAPVNITTEVKSVMHHEALS  
EALPGDNVGFNVKNSVKDIRRGVCGDSKSDPPQEAQFTSQVILNHPGQISAGYSPV  
IDCHTAHIACKFAELKEKIDRRSGKKLEDNPKSLKSGDAAIVEMVPGKPMCVESFSQYPP  
LGRFAVRDMRQTVAVGVIKNVEKKSGGAGKVTKSAQAQKAGK

>sp|P29692|EF1D\_HUMAN Elongation factor 1-delta OS=Homo sapiens GN=EEF1D PE=1 SV=5

MATNFLAHEKIWFDFKFYDDAERRFYEQMNGPVAGASRQENGASVILRDIARARENIQKS  
LAGSSGPGASSGTSGDHGLVVRISLEVENQSLRGVVQELQQAIKLEARNVLEKSSP  
GHRATAPQTQHVSPMRQVEPPAKKPATPAEDDEDDDDIDLFGSDNEEDKEAAQLREERLR  
QYAEKKAKKPALVAKSSILLDVKPWDETDMAQLEACVRSIQLDGLVWGASKLVPVGYGI  
RKLQIQCVVEDDKVGTDLLEEEITKFEHVQSVDIAAFNKI

>sp|A6NFE3|EFC10\_HUMAN EF-hand calcium-binding domain-containing protein 10 OS=Homo sapiens GN=EFCAB10 PE=2 SV=2

METSSRELQAAEYLEKHQIKEVVSYLTSALLFFRPEKPKEYLISLLERLRIAKVTGVAFP  
FFMDNSNIVAMFEMMDSSGRGTISFVQYKEALKTLGLCTEDEDLQDDGHKITLDKFKEEV  
NKRMEI

>sp|Q8IY85|EFC13\_HUMAN EF-hand calcium-binding domain-containing protein 13 OS=Homo sapiens GN=EFCAB13 PE=2 SV=2

METKVHLFCQAEENIDLLDDGSNSFATDLSSGTINHKKYIKFSKTIEKEISPEIRSLSPE  
YKKIFETSIIFCGEEKSSDFSGEKKVGRKSLQVQQHSKRTEIIPPFLKLSKEKVTRKENS  
LCKLPNQYSVHKTSSPLCTSSAITREKEMLSNLYMTLYDEVTHGYLHSELKLSALHKACKI

FSKIRSGKIYVNDLPVILCILRISISDLEMRQALKTVDIDAFQDALKIFCRIKGGRVSTD  
DVFAVLDSMGIPINREILEEVTKHTYIDSNHMDIGDIIFTLNELQEYEDVSITEGSPL  
NEITSDRKLSSVAGCYLKYKKNSLSSKLPEPSISKLNKSNQYYSKIMENDDLESKRP  
KNTWQIRKFLGGVGSNNVGVQEPYSKNGINFKKHSEKGEIHDSKSKPQSLKSSTSLSKSL  
DKSDISSIPKLQKPAVRKHSSLQKQVSSTEKTAISTLENFCEAISKLQENYIAAEELQSI  
LPSTGINLLDEEFQKIVTDTSRNENGMVELDDFVNALAKERSFPECNALPGVIKAIDKIK  
DKNVDYEDLNTCLQNFGIYLSKPEFKKITELTEAGETKKVNFKEFIDTMSNTECFSEKL  
VLPDAIETLDDLKRETMVSDLVNTLSSLNSNLKKDEFLAALELTVDEGDKVQFEFAK  
VVRNMRDAARLEELQEVVLAADLLEGDMIAGKNLEDFLRNVGIKSPKEEVEKILQSDFVS  
EDNMVNIKDCMRALRDTQKFSNYIDFRKEASNLKLPKVNEIKEAANILSHVDNGKIGIPD  
LEHALKCLNVNLTEEDFNEALNCCNVSDNMEVDLKDFLMKMKESPHFQKSKATQILLATT  
QILQNDLVDVSDLKTLMDKDLHTANAILTVMRLRHVPEHESGKVS IQEFMTKLSDILTIP  
KAAGKFYLICTYCPDLERQAVVYMLKTIQDSIVKAQVSKKQYNMNIKQHKISLHNFCLNS  
KANIAKLNPNSKF

>sp|P60608|EFC2\_HUMAN Endogenous retrovirus group FC1 member 1 Env polyprotein OS=Homo  
sapiens GN=ERVFC1-1 PE=1 SV=1

MNSPCDRLQQFIQVLLSEWSFSPFANTLHWPENLLSYIDELVWQGSLLQNFHQHEVRFDK  
PPLRLPLTGFSSLTENWSSRQAVSSRLVATAASPPAGCQAPIAFLGLKFSSLGPAKNPA  
LCFLYDQSNKSCNTSWVKENVGCPWHWCNIHEALIRTEKGSDFMFYVNTSTGGRDGFNGF  
NLQISDPWDPRAWASGVDGGLYEHKTFMYPVAKIRIARTLKTVTGLSDLASSIQSAEKEL  
TSQLQPAADQAKSSRFSWTLISEGAQLLQSTGVQNLSHCFCAALRRPPLVAVPLPTPF  
NYTINSSTPIPPVPKGQVPLFSDPIRHKFPFCYSTPNASWCNQTRMLTSTPAPPRGYFWC  
NSTLTKVLNSTGNHTLCLPISLIPGLTLYSQDELSHLLAWTEPRPQNKSKWAIPLPLVLG  
ISLASSLVASGLGKGALTHSIQTSQDLSTHLQLAIEASAESLDSLQRQITTVAAQVAAQNR  
QALDLLMAEKGRCLFLQEECCYYLNEGSGVVENSLQTLKKKKSSKRS

>sp|Q9HAE3|EFCB1\_HUMAN EF-hand calcium-binding domain-containing protein 1 OS=Homo  
sapiens GN=EFCAB1 PE=2 SV=1

MNRKKLQKLTDTLTKNCKHFNKFEVNCLIKLFYDLVGGVERQGLVVGLDRNAFRNILHVT  
FGMTDDMIMDRVFRGFDKDNDGCVNVLEWIGHLSLFLRGSLEEKMKYCFEVDLNGDGF  
SKEEMFHMLKNSLLKQPSEEDPDEGIKDLVEITLKKMDHHDGKLSFADYELAVREETLL  
LEAFGPCLPDPKSQMEFEAQVFKDPNEFNDM

>sp|A4FU69|EFCB5\_HUMAN EF-hand calcium-binding domain-containing protein 5 OS=Homo  
sapiens GN=EFCAB5 PE=1 SV=3

MNESASQEELRPAQENRKEDKERKWNLTevkelHETLQSVDPVPKEDTNSVVEKAMDEI  
KSQELNLEGQRKISPGSIKDSKTEASGNIAIRKSAKVI FALDETELKSKPEHTWKKNLFE  
RMEARAQAMQQKI IDKENLKELEKKAEEKLPRDNLAKWFNTDSMTLNNTAYLLDKLLP  
TLVPGVENMLTQVEKKKVLTEADTPSKFDPINYLGEYLIRNPNYIKDPGMSGYQRLMKE  
VTEDLKIYVPDTICNRVSKMKENVKQNRKQRESIDKIIVKVANTRKQALQE QFDEWILDP  
KGMIPKSVIQNVLQEFFQNPDFKLGSCHKQLDITDSTEPRLNKMEFTEYISSHIKDLKSE  
MFEELLKHLCHSADEFREV IKADMRRQMFaelFLHCDHGKVGFLDRQRTLALLELFYDHS  
SQMLRSLLRNPRQWPFI EFEEINLTelWGDMNQKHIEGFDKVLLemNTLLSANHASKT  
QSKLLESPDQPKLNEQRTSTPSPNPPEQQRGVTAEEQGPQRISIEEQQKGKKPTAEQELYI  
ESVIEPGTHTESTLEQGSSRRLLTEQETHRESTTEQGQHKGSIEGQGPrrvsvSEQGSSR  
ESVAEQGSRRESIAEQDRHKGsvAEQGSRRMSAAEQGSLRESVIEEPYQKSEQGPYGEII

SEEQEDIGSTSQSRKDSILKSTKYGEPITSEYIEVPLQEKRSWEQTYEEEEIFLSSELQEE  
VPTLSRKDHFPETTKKEVQKDKPCEPKSQKIEGKSWSGEFFTCNWKMKYVTFEDEEQANL  
IYGNRFTDLHSIIRNIQSCKEVKGRATFNGVSFNLLQFVQLLETQVGEDAPLSVSETLT  
SFFKEGYVETEQEKMNALQEQSNQAFQVRQRLLEAIFQKWSDSGSGFLDLKEVDELLYT  
YKEGMEKESMKKAKLHIQFPKPHPGHEVRLSSKQFQNYIELVVSELRGNEQVLESVVEF  
LMNALERSHIESLRNSARRKWLHQIQCAAETSGVSLEPVYSETFKALMQDAEAHGKKNKIS  
AHISLLEENLLLPEKGNVLLRNVACTLDDAQFVLNRVLYRDMKGISFTVVDEGKPIHVPQ  
VQYHGNIFFWNQSRNKHDYNGSFLALPLQDAYMRIFGVLAVDTLRDPHEINIFLPHEIRF  
YQGVANVFSTAYHYVHSREHILHIVITGIGWLYDVTSSITSITTYFVEPSPAQSDSYVLR  
NMMVTGQLGLTEIHKNPPTIHRKSCIFRDFLFKCTDSSEVVLASACGETHIVVPLRERTG  
EALGVLDNFIGNRMLLCQEYKDLQKMMKVQVACYEILGEFSGEIKKKYILEIENVREV  
QRAGILFFRIMLLELQESIQLNSMEFVSLLLYDHTLVTEPNPQDSKSMELEANVKLVR  
DILKAVILFFHPELEFSSDFGWDKCKFYVNKYLNNICAFDPTAKHVEVNVQLIDEYIR  
DHSRTEVWKFQNVVIEHLYHWIHCALMKITKQLNSGITPPLPSKTDNYMYAKMPGEGL  
QEK

>sp|Q5THR3|EFCB6\_HUMAN EF-hand calcium-binding domain-containing protein 6 OS=Homo  
sapiens GN=EFCAB6 PE=1 SV=1

MCKMAIIPDWLRSHPHTRKFTHSRPHSSPCRVSRSNGSPNKRSSSTTAVANPTLSSLDV  
KRILFQKITDRGDELQKAFQLLDTGQNLTVSKSELRRITDFLMPLTREQFQDVLAQIPL  
STSGTVPYLAFLSRFGGIDLYINGIKRGGGNEMNCRTLRELEIQVGEKVFKNIKTMKA  
FELIDVNKTGLVRPQELRRVLETFCKMLRDEEYEFKSKHYNIHKDTAVDYNVFLKNLSIN  
NDLNLRRCMGNQEVSLNQAKNSKKERLLGSASSEDIVRNYSLEIERNFCLQLSKSYE  
KVEKALSAGDPCKGGYVSFNLYKIVLDTFVYQIPRRIFIQLMKRFGKATTKINWKQFLT  
SFHEPQGLQVSSKGPLTKRNSINSRNESHKENIITKLFRHTEDHSASLKKALLINTKPD  
GPITREEFRYILNCMAVKLSDSEFKELMQMLDPGDTGVVNTSMFIDLIEENCRMRTSPC  
TDAKTPFLLAWDSVEEIVHDTITRNLQAFYNMLRSYDLGDTGRIGRNNFKKIMHVFCPFL  
TNAHFIKLCSKIQDIGSGRILYKLLACIGIDGPPTVSPVLVPKDQLLSEHLQKDEQQQP  
DLSSERTKLTEDKTTLTKMTEEVIEKFKKCIQQQDPAFKKRFLDFSKEPNGKINVHDFK  
KVLEDTGMPMDDDQYALLTTKIGFEKEGMSYLDFAAGFEDPPMRGPETTPPQPPTPSKSY  
VNSHFITAEECLKLFPRLKESFRDPYSAFFKTDADRDGIINMHDLHRLLLHLLNLKDD  
EFERFLGLLGLRLSVTLNFRFQNLCEKRPWRTDEAPQRLIRPKQKVADSELACEQAHQY  
LVTKAKNRWSDLSKNFLETDNENGLRRRDIKNALYGFDIPLTPREFEKLWARYDTEGK  
GHITYQEFLQKLGINYSPAVHRPCAEDYFNFMGHFTKPQQLQEEMKELQQSTEKAVAARD  
KLMDRHQDISKAFTKTDQSKTNYISICKMQEVLEECCSLTEGELTHLLNSWGSVRHDNA  
INYLDLRAVENSSTGAQPKKEESMPINFATLNPQEAVRKIQEVVESSLALSTAFSA  
LDKEDTGFBKATEFGQVLKDFCYKLTDNQYHYFLRKLRIHLTPYINWKYFLQNFSCFLEE  
TADEWAEKMPKGPPTSPKATADRDILARLHKAVTSHYHAITQEFENFDTMKTNTISREE  
FRAICNRRVQILTDEQFDRLWNEMPVNAKGRLKYPDFLSRFSSETAATPMATGDSAVAQR  
GSSVPDVSEGTRALSPLTQELRPGSKSQSHPCTPASTTVIPGTPPLQNCPIESRLRKR  
IQGCWRQLLKECKEKDVARQGDINASDFLALVEKFNLDISKEECQLIIKYDLKSNGKFA  
YCDFIQSCVLLLKAKESSLMHRMKIQNAHKMKEAGAETPSFYALLRIQPKIVHCWRPMP  
RTFKSYDEAGTGLLSVADFRTVLRQYSINLSEEEFFHILEYYDKTSSKISYNDFLRAFL  
Q

>sp|A8MWE9|EFCB8\_HUMAN EF-hand calcium-binding domain-containing protein 8 OS=Homo sapiens GN=EFCAB8 PE=3 SV=2

MSSEDLAEIPQLKQLSIPHGFQNKEAASSPTPSITLSQVPDLQPGSQLFTEIHLAKIEKM  
FEEDINSTGALGMDAFIKAMKKVLSSVSEMLKELFLKVDSDCEGFVTWQKYVDYMMREF  
QGKEDMRKSQYRLHFYLPMTVVPL

>sp|Q96RP9|EFGM\_HUMAN Elongation factor G, mitochondrial OS=Homo sapiens GN=GFM1 PE=1 SV=2

MRLLGAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHIDSGKT  
TLTERVLYYTGRIAKMHEVGKGDVGAVMDSMELERQRGITIQSAATYTMWKDVNINIID  
TPGHVDFTIEVERALRVLDGAVLVLCVGGVQCQTMTVNRQMKRYNVPFLTFINKLDRMG  
SNPARALQQMRSKLNHNAAFMQIPMGLEGNFKGIVDLIEERAIYFDGDFGQIVRYGEIPA  
ELRAAATDHRQELIECVANSDEQLGEMFLEEKIPSISDLKLAI RRATLKRSTPVLGSA  
LKNKGVPQLLDAVLEYLPNPSEVQNYAILNKEDDSKEKTKILMNSSRDNSHPFVGLAFKL  
EVGRFGQLTYVRSYQGELEKKGDTIYNTRTRKKVRLQRLARMHADMMEDVEEVYAGDICAL  
FGIDCASGDTFTDKANSGLSMESIHPDPV ISIAMKPSNKNLEKFSKGIGRFTREDPTF  
KVYFDTENKETVISGMGELHLEIYAQRLEREYGCPCITGPKVAFRETITAPVPFDFTHK  
KQSGGAGQYQKVIQVLEPLDPEDYTKLEFSDETFGSNIPKQFVPAVEKGFLDACEKGPLS  
GHKLSGLRFVLQDGAHHMVDSEISFIRAGEGALKQALANATLCILEPIMAVEVVPNEF  
QQQVIAGINRRHGVITGQDGVEDYFTLYADVPLNDMFGYSTELELRSCTEGKGEYTMESRY  
QPCLPSTQEDVINKYLEATGQLPVKKGKAKN

>sp|P43897|EFTS\_HUMAN Elongation factor Ts, mitochondrial OS=Homo sapiens GN=TSFM PE=1 SV=2

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRKTGYS  
FVNCKKALETGCGDLKQAEIWLHKEAQKEGWSKAAKLQGRKTKEGLIGLLQEGNTTVLVE  
VNCETDFVSRNLKFQLLVQVALGTMHCQTLKDQPSAYSKGFLNSELSSGLPAGPDREG  
SLKDQLALAIGKLGENMILKRAAWVKVPSGFYVGSYVHGAMQSPSLHKLVLGKYGALVIC  
ETSEQKTNLEDVGRRLGQHVVGMAPLSVGSLDDEPGGEAETKMLSQPYLLDPSITLGQYV  
QPQGVSVVDFVRFECGEGEAAETE

>sp|Q9Y4J8|DTNA\_HUMAN Dystrobrevin alpha OS=Homo sapiens GN=DTNA PE=1 SV=2

MIEDSGKRGNTMAERRQLFAEMRAQDLDRILSTYRTACKLRFVQKKCNLHLVDIWNVIE  
ALRENALNNLDPNTELVNLSRLAELVSTIFYQLNKRMPTHQIHVEQSISLLLNFLLAFD  
PEGHGKISVFAVKMALATLCGGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLPTA  
VFEGPSFGYTEQSARSCFSQKKVTLNGFLDTLMSDPPPQCLVWLPLLHRLANVENVFHP  
VECSYCHSESMGFRYRCQQCHNYQLCQDCFWRGHAGGSHSNQHQMKEYTSWKSPAKKLT  
NALSKSLSCASSREPLHPMPDQPEKPLNLAHIVDTWPPRPVTSMNDTLFSHVPSSGSP  
FITRSSPPKDSEVEQNKLLARAAPFLKGKGIQYSLNVADRLADEHVLIGLYVNMLRNNP  
SCMLESSNRLDEEHRLIARYAARLAAESSSSQPPQQRSAPDISFTIDANKQQRQLIAELE  
NKNREILQEIQRRLLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRR  
ELMVQLEGLMKLLKTQGAGSPRSSPSHTISRPIPMPIRSASACSTPHTPDQSLTGVGGD  
VQEAFQSSRRNRLNDLLVAADSI TNMSSLVKELNSEVGSETESNVDESEFARTQFEDLV  
PSPTSEKAFLAQIHARKPGYIHSGATTSTMRGDMVTEDADPYVQPEDENYENDSVRQLEN  
ELQMEEYLKQKLQDEAYQVSLQG

>sp|POCJ88|DU4L5\_HUMAN Double homeobox protein 4-like protein 5 OS=Homo sapiens GN=DUX4L5 PE=3 SV=1

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSQLRQHRRESRPWPGRRGPPGRRKRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRARRHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSQAARAAPALQPSQAAPAEGVSQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQQGGVLA  
PPTSQGSPPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASASARQQMQGIPAPSQALQ  
EPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEAASLEAPLSEEEYRAL  
LEEL

>sp|Q8NEJ0|DUS18\_HUMAN Dual specificity protein phosphatase 18 OS=Homo sapiens GN=DUSP18  
PE=1 SV=1

MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKMLSSNQITMVINVSVEVVNTL  
YEDIQYMQVPVADSPNSRLCDFDPIADHIHSVEMKQGRLLHCAAGVSRSAALCLAYLM  
KYHAMSLDLAHTWTKSCRPIIRPNSGFWEQLIHYEQLFGKNTVHVVSPVGMIPDIYEK  
EVRLMIPL

>sp|Q16690|DUS5\_HUMAN Dual specificity protein phosphatase 5 OS=Homo sapiens GN=DUSP5  
PE=1 SV=2

MKVTSLDGRQLRKMLRKEAAARCVVLD CRPYLAFAASNVRGSLNVNLNSVVLRRARGGAV  
SARYVLPDEAARARLLQEGGGVAAVVVLDQGSRHQKLREESAARVLTSLACLAPAGP  
RVYFLKGGYETFYSEYPECCVDVKPISQEKIESERALISQCGKPVVNVSYRPAYDQGGPV  
EILPFLYLGSAYHASKCEFLANLHITALLNVSRRTSEACATHLHYKWIPVEDSHTADISS  
HFQEAIDFIDCVREKGGKVLVHCEAGISRSPTICMAYLMKTKQFRLKEAFDYIKQRRSMV  
SPNFGFMGQLLQYESEILPSTPNPQPPSCQGEAAGSSLIGHLQTLSPDMQGAYCTFPASV  
LAPVPTHSTVSELSRSPVATATSC

>sp|Q16828|DUS6\_HUMAN Dual specificity protein phosphatase 6 OS=Homo sapiens GN=DUSP6  
PE=1 SV=2

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPG  
IMLRRLQKGNLPVRALFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESVLGLLK  
KLKDEGCRAFYLEGGFSKFQAEFSLHCETNLDGSCSSSPPLPVLGLGGLRISSDSSDI  
ESDLDRDPNSATSDGSPLSNSQPSFPVEILPFLYLGC AKDSTNLDVLEEFGIKYILNVT  
PNLPNLFENAGEFKYKQIPISDHWSQLSQFFPEAISFIDEARGKNCGLVHCLAGISRS  
VTVTVAYLMQKLNLSMNDAYDIVMKKSNISPNFNFMGQLLDFERTLGLSSPCDNRVPAQ  
QLYFTTPSNQNVYQVDSLQST

>sp|Q13838|DX39B\_HUMAN Spliceosome RNA helicase DDX39B OS=Homo sapiens GN=DDX39B PE=1  
SV=1

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFLLKPELLRAI  
VDCGFEHPSEVQHECIPQAILGMDVLCQAKSGMGKTAVFVLATLQQLPVTGQVSVLVMC  
HTRELAFAQISKEYERFSKYPNVKVAVFFGGLSIKKDEEVLKKNCPHIVVGTGPRILALA  
RNKSLNLKHIKHFILDECDKMLEQLDMRRDVQEIFRMTPEKQVMMFSATLSKEIRPVCR  
KFMQDPMEIFVDDETKLTLHGLQQYYVKLDNEKNRKLFDLLDVLEFNQVVFVKSVQRC  
IALAQLLVEQNFPATAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIAF  
NYDMPEDSDTYLHRVARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDI  
SSYIEQTR

>sp|Q8N7U6|EFHB\_HUMAN EF-hand domain-containing family member B OS=Homo sapiens GN=EFHB  
PE=2 SV=4

MNMEIGHPEHGKDDLGDKRVIMGTKFPMELGIRVGLGKEDSRCGESPVVSNKCEGRMAPP  
ETKFPLSKGLEMGLERQNI SRTVMQRGSLGVDSVSASQGTKPSLLPGRMGLENESLLAGY  
THERIIQPPLGRVCGSSQAAGSRRAPLASGPEGVEELVGKPAFVMEPRQEMEKESTCVLM  
KPNT EIKLPVEVDIGLTQAEGPDETKNTEPQMGLVIEPPQCQFAQQHEQRKEAGNIESGV  
EPPDRIRPIYSGKFFDRTPCWPSAGKVIPVGYRVATCLTEKLPRLITPPEAKKYFNFRYP  
PAGVERVFYGRANDPQIAPYLTHGIRSKISVLANTLINPQPITTFQQKIKDKKESIYLSN  
RRAPLGKSHDQAPGLPKGMDTTNTTFTGTAVIKEYSAKDVVNPPKSYEEVFKEGNEGHDLY  
VVSHNDYYAGEAKNRKYNPSSFHRCSVYGVPTPHFNDGRAMAKSLYWLHELQMKRGAKFV  
SKRADDFFEKFQHKLGRLDPIAETMNVPPDCTFGACLRPEEYGVGDLIHNRLPDEYLRG  
KDRQRALIAAVRHHLKKNYQKFDTLA AFRHYDKKGDMIDKDELQEACDQANLSLDDK  
LLDQLFDYCDVDNDGFINYLEFANFLNWKDKMLLKEYEERVIKGRKPCVNPTEANVEE  
PEQTLLIKPEDIVLKEAGSTEKTLRLLRPSDKVSNNYKTSSEINAIVGAIPSTCYPIC  
GVPTIRSDIPAPRIRISDRNTNYGEEGSAYSLLYPTIFARKGVFERDFFKTRSKEEIAEI  
LCNIGVKLSDEEFENVWNLASKKHHRGEVCVENIRNVDEL RHADRIKCKTLM

>sp|Q5JST6|EFHC2\_HUMAN EF-hand domain-containing family member C2 OS=Homo sapiens  
GN=EFHC2 PE=1 SV=2

MALPLLPGNSFNRRVGEKFKHKSQHWGFCNNVMMLVSDEKPGIGGEPLLGGKIKPKCSIY  
PKGDSVDVPSWVAFDKQVLSFDAYLEEEVLDKSQTNIRIRYYKIYFYPEDDTIQVNEPEV  
KNSGLLQGT SIRRHRITLPPPDEDQFYTVYHFNVGTEVVFYGRTFKIYDCDAFTRNFLRK  
IGVKVNPVPVQCPEDPYMKIRREVVEHVEPLRPYESLDTLKQFLQYHGKILCFFCLWDDSV  
SMFGDRRELILHYFLCDDTIEIKELLPHSSGRDALKMFLRRSKLPKNCPPRVYQPGQITD  
RAVLNSYGDFIKNQADGYLFDRYKLGKVDQEFYKSDLSLGV TINVWGRKVLLYDCDEFT  
KSYYSKYGIENFTSVSCKPPSPPPKIERKFPYPNGFGSEEDSLRNCIDLKPTPHRRNFK  
KFMEKDSYGSKNILRFFAKLVTDKCVLDRMFVISYYLGDDTISVFEP IERNSGIAGGM  
FLKRSRVKKPGQEVFKSELSEYIKAEELYIGVTNVNGYLFRLNAD EYTLNMEQNTDK  
YPFSNLKLALQKLKQEEGKSRELKQVFKAADSKHTNMVDYNTFRDILMSLTVGNLAEQEF  
VTIARHYRVEPTCSDMDFLIALAHEKFKKNMFENFDTFIYSCVYEDREKKNVLP TKDIK  
RLCKSSRLPLSDDLLESLLSRFEDSEKQIDYKSFFSALNWRKNPVPELQPASYLKERCED  
VWLGMPSPIPAKYIDYWTFLKDAFGLLEE

>sp|P00533|EGFR\_HUMAN Epidermal growth factor receptor OS=Homo sapiens GN=EGFR PE=1 SV=2

MRPSGTAGAALLALLAALCPASRALEEKVCQGT SNKLTQLGTFEDHFLSLQRMFNCEV  
VLGNLEITYVQRNYDLSFLKTIQEVAGYVLIALNTVERIPL ENLQIIRGNMYYENSYALA  
VLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDF  
QNHLGSCQKCDPSCPNGSCWGAGEENCQKLTKII CAQQCSGRCRGKSPSDCCHNQCAAGC  
TGPRESCLVCRKFRDEATCKDTCPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYV  
VTDHGSCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLSINATNIKHFK  
NCT SISGLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAF  
ENLEIIRGRTKQHGGQFSLAVVSLNITSLGLRSLKEISDGDV IISGNKNLCYANTINWKKL  
FGTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECVDKCN  
LLEGEPREFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVKTCPAGVM  
GENNTLVWKYADAGHVCHLCHPNCTYGTGPGLEGCP TNGPKIPSIATGMVGALLLLLVV  
ALGIGLFMRRRHIVRKRTLRRLLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGS  
GAFGTVYKGLWIPEGEKVKIPVAIKELREATSPKANKEILDEAYVMASVDNPHVCRL LGI  
CLTSTVQLITQLMPFGCLLDYVREHKDNIGSQYLLNWCVQIAKGMNYLED RRLVHRDLAA



RNVLVKTPQHVKITDFGLAKLLGAEKEYHAEGGKVPIKWMALESILHRIYTHQSDVWSY  
GVTWELMTFGSKPYDGIPASEISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPK  
FRELIIIEFSKMARDPQRYLVIQGDERMHLPSPTDSNFYRALMDEEDMDDVVDADAYLIPQ  
QGGFSSPSTSRTPLLSSLSATSNSTVACIDRNLQSCPIKEDSFLQRYSSDPTGALTED  
SIDDTFLPVPEYINQSVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLN  
TVQPTCVNSTFDSPAHAQAQKGSQISLDNPDYQQDFFPKEAKPNGIFKGSTAENAEYLRV  
APQSSEFIGA

>sp|Q96KS0|EGLN2\_HUMAN Egl nine homolog 2 OS=Homo sapiens GN=EGLN2 PE=1 SV=1

MDSPCQPQPLSQALPQLPGSSSEPLEPEPGRARMGVESYLPCLLP SYHCPGVPSEASAG  
SGTPRATATSTTASPLRDGFGGQDGGELRPLQSEGAAALVTGKCQRLAAQGARPEAPKRK  
WAEDGGDAPSPSKRPWARQENQEAREGGMSCSCSSSGSGEASAGLMEEALPSAPERLALD  
YIVPCMRYYGICVKDSFLGAALGGRVLA EVEALKRGGRLRDGQLVSQRAIPPRSIRGDQI  
AWVEGHEPGCRSIGALMAHVDIVIRHCAGRLGSYVINGRTKAMVACYPGNGLGYVRHVDN  
PHGDGRCITCIYYLNQNWVDKVVHGGLLQIFPEGRPVVANIEPLFDRLIFWSDRRNPHEV  
KPAYATRYAITVWYFDAKERAADKYQLASGQKGVQVPVSQPPTPT

>sp|Q8N140|EID3\_HUMAN EP300-interacting inhibitor of differentiation 3 OS=Homo sapiens  
GN=EID3 PE=1 SV=1

MKMDVSVRAAGCSDDLSSGEADVDPKLELTADDEEKRCSIRRYRQLMYCVRQNRDIVS  
SANNSLTEALEEANVLFDGVSRTREAALDARFLVMASDLGKEKAKQLNSDMNFFNQLAFC  
DFLFLFVGLNWMEGDPDKLSDCDDSIASFWKAIEKEATSWMVAETFFHFVFGSFKLERS  
APKPRLEHQKKVRKMEENGMPKQLKLDLSSYPEATEKNVERILGLLQTYFRKYPDTPV  
SYFEFVIDPNSFSRTVENIFYVSFIVRDGFARIRLDEDRLPILPMNVNQMGEGNDSSCH  
GRKQGVISLTLQEWKNIVA AFEISEAMITYSSY

>sp|P41214|EIF2D\_HUMAN Eukaryotic translation initiation factor 2D OS=Homo sapiens  
GN=EIF2D PE=1 SV=3

MFAKAFRVKSNTAIKGSRRKL RADVTTAFPTLGTQVSELVPGKEELNIVKLYAHKGDA  
VTVYVSGGNPILFELEKNLYPTVYTLWSYPDLLPTFTTWPLVLEKLVGGADLMLPGLVMP  
PAGLPQVQKGDLCASLVGNRAPVAIGVAAMSTAEMLTSGLKGRGFSVLHTYQDHLWRSG  
NKSSPPSIAPLALDSADLSEEKGSVQMDSTLQGD MRHMTLEGEENGEVHQAREDKSLSE  
APEDTSTRGLNQDSTDSKTLQEQMDELLQQCFHLALKCRVKKADLPLLTSTFLGSHMFSC  
CPEGRQLDIKKSSYKLSKFLQMQQEIIQVKELSKGVESIVAVDWKHPRITSFV IPEP  
SPTSQTIQEGSREQPYHPPDIKPLYCVPASMTLLFQESGHKKGSLFEGSEVRTIVINYAK  
KNDLVDADNKNLVRDLPILCDCILEKNEQHTVMKLPWDSLLTRCLEKLQPAYQVTLPGQE  
PIVKKGRICPIDITLAQRASNKVTVVRNLEAYGLDPYSVAAILQRCQASTTVNPAPGA  
KDLSLQVQIQGNQVHHLGWLLLEEQQLPRKHIQGLEKALKPGKKK

>sp|Q9Y262|EIF3L\_HUMAN Eukaryotic translation initiation factor 3 subunit L OS=Homo  
sapiens GN=EIF3L PE=1 SV=1

MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQV IPEVIKNFIQYFH  
KTVSDLIDQKVYELQASRVSSDIVDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEIAP  
QVGNDAVFLILYKELYRHIYAKVSGGPSLEQRFE SYYNYNLNFNYILNADGPAPLELPN  
QWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVHSLNVLHSLVDKSNI  
NRQLEVYTSGGDPESVAGEYGRHSYKMLGYFSLVGLRLHSLLDGYYQAIKVLNIELN  
KKSMYSRVPECQVTYYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMI  
NKQNEQMHALLAIALTMYPMRIDESIHLQLREKYGDKMLRMQKGD PQVYEELFSYSCPKF

LSPVVPNYDNVHPNYHKEPFLQQLKVFSDEVQQAQLSTIRSFLKLYTTPVAKLAGFLD  
LTEQEFRILQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDKDMIHIADTKVARRYG  
DFFIRQIHKFEELNRTLKMGQRP

>sp|Q15717|ELAV1\_HUMAN ELAV-like protein 1 OS=Homo sapiens GN=ELAVL1 PE=1 SV=2

MSNGYEDHMAEDCRGDIGRNLIVNYLPQNMTQDELRSLSFSSIGEVEAKLIRDKVAGHS  
LGYGFVNYVTAKDAERAINTLNLRLQSKTIKVSYPSPSEVIKDANLYISGLPRTMTQK  
DVEDMFSRFGRIINSRVLDQTTLGSRGVAFIRFDKRSEAEAAITSFNGHKPPGSSEPT  
VKFAANPNQKNVALLSQLYHSPARRFGGPVHHQAQRFRFSPMGVDHMSGLSGVNVPNA  
SSGWCIFIYNLGGDADEGILWQMGFPFGAVTNVKVIRDFNTNCKKGFGFVTMTNYEEAAM  
AIASLNGYRLGDKILQVSFKTNKSHK

>sp|P78545|ELF3\_HUMAN ETS-related transcription factor Elf-3 OS=Homo sapiens GN=ELF3 PE=1  
SV=1

MAATCEISNIFSNYFSAMYSSSEDSTLASVPPAATFGADDLVLTLSNPQMSLEGTEKASWL  
GEQPQFWSKTQVLDWISYQVEKNKYDASAI DFSRCMDMGATLCNCALEELRLVFGPLGDQ  
LHAQLRDLTSSSSDEL SWIIELLEKDGMAFQEALDPGPFDDGSPFAQELLDDGQQASPYH  
PGSCGAGAPSPGSSDVSTAGTGASRSSHSSDGGSDVDLDPTDGKLFPSDGFDRCKKGD  
KHGKRKRGRPRKLSKEYWDCLEGGKSKHAPRGTHLWEFIRDILIHPELNEGLMKWENRHE  
GVFKFLRSEAVAQLWGQKKKNSNMTYEKLSRAMRYYYKREILERVDGRRLVYKFGKNSSG  
WKEEEVLQSRN

>sp|P19419|ELK1\_HUMAN ETS domain-containing protein Elk-1 OS=Homo sapiens GN=ELK1 PE=1  
SV=2

MDPSVTLWQFLLQLLREQNGHIIISWTSRDGGEFKLVDAEEVARLWGLRKNKTNMNYDKL  
SRALRYYYDKNIIRKVSQGKFVYKFVSYPEVAGCSTEDCPPQPEVSVTSTMPNVAPAAIH  
AAPGDTVSGKPGTPKGAGMAGPGGLARSSRNEYMRSGLYSTFTIQSLQPQPPPHPRPAVV  
LPSAAPAGAAAPSGSRSTSPSPLEACLEAEAEAGLPLQVILTPPEAPNLKSEELNVEPGL  
GRALPPEVKVEGPKEELEVAGERGFVPETTKAEPEVPPQEGVPARLPAVVMDDTAGQAGGH  
AASSPEISQPQKGRKPRDLELPLSPSLLGGPGPERTPGSGSGSLQAPGPALTPSLLPTH  
TLTPVLLTPSSLPPSIHFWSTLSPIAPRSPAKLSFQFPSSGSAQVHIPSI SVDGLSTPVV  
LSPGPQKP

>sp|Q8IZ81|ELMOD2\_HUMAN ELMO domain-containing protein 2 OS=Homo sapiens GN=ELMOD2 PE=1  
SV=1

MFISLWEFFYGHFFRFWMKLLRQMTGKCELQRIFDTYVGAQRTHRIENSLTYSKNKVLQ  
KATHVVQSEVDKYVDDIMKEKNINPEKDASFKICMKMCLLQITGYKQLYLDVESVRKRPY  
DSDNLQHEELMKLWNLLMPTKKLNARISKQWAEIGFQGDDPKTDFRGMGILGLINLVYF  
SENYTSEAHQILSRSNHPKLGYSYAIVGINLTEMAYSLLKSEALKFHLYNLVPGIPTMEH  
FHQFYCYLVYEFDKFWFEEEPESIMYFNLYREKFHEKIKGLLLDCNVALTLKV

>sp|Q96BJ8|ELMO3\_HUMAN Engulfment and cell motility protein 3 OS=Homo sapiens GN=ELMO3  
PE=1 SV=3

MAPPRNVVKIAIKMRDAIPQLIQLDQAKPLAAVLKEVCDAWSLTHSERVALQFADGHRRY  
ITENNRAEIKNGSILCLSTAPDLEAEQLLGGQLSNSPEGRREALRRLVPLASDMIFAREV  
ISRNLQILGTIIEDGDDLGEVLALSRLAFSELMEHGVVSWETLSIPFVRKVVCYVNMNL  
MDASVPLALGLLESVTLSPALGQLVKSEVPLDRLLVHLQVMNQQLQTKAMALLTALLQ  
GASPVERKHMLDYLWQRNLRQFIYKNI IHSAAPMGDEMAHHLVYLQALMLGLLEPRMRTP  
LDPYSQEQRQLQVLRQAAFEVEGESSGAGLSADRRRSLCAREFRKLGFNSNPAQDLER

VPPGLLALDNMLYFSRNAPSAYSRLFVLENSREDKHECPFARGSIQLTVLLCELLRVGEP  
CSETAQDFSPMFFGQDQSFHELFCVGIQLLNKTWKEMRATQEDFDKVMQVVREQLARTLA  
LKPTSLELFRTKVNALTYGEVLRRLRQTERLHQEGTLAPPILELREKLKPELMGLIRQQRL  
LRLCEGTLFRKISSRRRQDKLWFCCLSPNHKLLQYGDMEEGASPPTLESLPEQLPVADMR  
ALLTGKDCPHVREKSGKQNKDLYELAFSISYDRGEEAYLNFIAPSKREFYLWTDGLSA  
LLGSPMGSEQTRLDEQLLTMETKLRLLELENVPIPERPPVPPPPTNFNFCYDCSIAEP

>sp|Q8NG57|ELOA3\_HUMAN RNA polymerase II transcription factor SIII subunit A3 OS=Homo sapiens GN=TCEB3C PE=1 SV=2

MAAGSTTLRAVGKLVRLATKTEPKKLEKYLQKLSALPMTADILAETGIRKTVKRLRKHQ  
HVGDFARDLAARWKKLVLDVRNTGPDQDPEESASRQRFGEALQEREKAWGFENATAPR  
SPSHSPEHRRRTARRTPPGQQRPHRSPSPREPRAERKRPRMAPADSGPHRDPPTRTAPLPM  
PEGPEPAVPGEQPRGHAHAAGGPLLGGCQGGPQGEAVGSHSKGHKSSRGASAQKSPP  
VQESQSERLQAAGADSAGPKTVPSHVSELWDPSEAWMQANYDLLSAFEAMTSQANPEAL  
SAPALQEEAAFPGRVRNAKMPVYSGSRPACQLQVPTLRQQCLRVPRNNPDALGDVEGVY  
SVLEPVLEGWTPDQLYRTEKDNAALARETDELWRIHCLQDFKEEKPQEHESWRELYRLR  
DAREQRLRVVTTKIRSARENKPSGRQTKMICFNSVAKTPYDASRRQEKSAAGAOPNGEM  
EPAPKAGSSQAPSLGDDGGSVSGGSSNRHAAPADKTRKQAAKKVAPLMAKAIRDYK  
GRFSRR

>sp|QOPNE2|ELP6\_HUMAN Elongator complex protein 6 OS=Homo sapiens GN=ELP6 PE=1 SV=1

MFVELNNLNTTPDRAEQGKLTLLCDAKTDGSFLVHHFLSFYKANCKVCFVALIQSF  
YSIVGQKLGVS LTMARERGQLVFLEGLKSAVDVVFQAQKEPHPLQFLREANAGNLKPLFE  
FVREALKPVDGGEARWTPVLLVDDL SVLLSLGMGAVAVLDFIHYCRATVCWELKGNMVV  
LVHDSGDAEDEENDILLNGLSHQSHLILRAEGLATGFCRDVHGQLRILWRRPSQPAVHRD  
QSFTYQYKIQDKSVSFFAKGMSPAVL

>sp|Q8WYP5|ELYS\_HUMAN Protein ELYS OS=Homo sapiens GN=AHCTF1 PE=1 SV=3

MRDLRAQVTSGLLPFPEVTLQALGEDEITLESVLRGFAAGKNGLACLACGPQLEVNSI  
TGERLSAYRFGVNEQPPVVLAVKEFSWQKRTGLLIGLEETEGSVLCLYDLGISKVVKAV  
VLPRGRTAIEPIINHGGASASTQHLHPSLRWLFGVAAVTDVGQILLVDLCLDDLSCNQ  
EVEASDLEVLTGIPAEVPHIRESVMRQGRHLCFQLVSPTGTAVSTLSYISRTNQLAVGFS  
DGYLALWNMKS MKREYYIQLESGQVPVYAVTFQEPENDPRNCCYLWAVQSTQDSEGDVLS  
LHLLQLAFGNRKCLASGQILYEGLEYCEERYTDLTGGMFPLRGQTSNTKLLGCQSIEKF  
RSHGDREEGVNEALSPDTSVSFTWQVNIYGQKPSVYLGLFDINRWYHAQMPDSLRSGE  
YLHNC SYFALWSLESVVSRTSPHGILDILVHERSLNRGVPPSYPPPEQFFNPSTYNF  
CLLNSGVVHLTCTGFQKETLTLKKGPSLNELIPDGYNCLVAGLLSPRFVDVQPSSLS  
QEEQLEAILSAAIQTSSLGLLTG YIRRWITEEQPNSATNLRVLEWTWNKVVLTK EEFDR  
LCVPLFDGSGHFMDPQTIQSIQQCYLLSNLNLVLSCFASEAREITERGLIDLSNKFVVS  
HLICQYAQVVLWFSHSGLLPEGIDDSVQLSRLCYNYPV IQNYTSRRQKFERLSRGKWN  
DCLMIDGLVSQLGERIEKLWKRDEGGTGKYPASLHVLDMYLLDGVTEAAKHSITIYLL  
LDIMYSFPNKTDTPIESFTVFAISWGQVKLIQGFWDIDHNDYESGLDLLFHPATAKPLS  
WQHSKIIQAFMSQGEHRQALRYIQTMKPTVSSGNDVILHLTVLLFNRCMVEAWNFLRQHC  
NRLNIEELLKHYEVCQEMGLMEDLLKLPTDTEQECLVKFLQSSASVQNHEFLLVHHLQ  
RANYVPALKLNQTLKINVMNDRPRLRERSLARN SILDQYGKILPRVHRKLATERAKPYH  
LSTSSVFLVSRPKPLSAVPKQVVTGTVLTRSVFINNVLSKIGEVWASKEPINSTPFNS  
SKIEEPSPIVYSLPAPELPEAFFGTPISKASQKISRLLDLVVQPVRPSQCSEFIQQSSM

KSPLYLVSRSLPSSSQLKGSPQAISRASELHLETPLVVKKAKSLAMSVTTSGFSEFTPQ  
SILRSTLRSTPLASPSPPGRSPQRLKETRISFVEEDVHPKWIPGAADDSKLEVFTTPKK  
CAVPVETEWLKS KDR TTSF FLNSPEKEHQEMDEGSQSLEKLDVSKGNSSVSITSDETTLE  
YQDAPSPEDLEETVFTASKPKSSSTALT TNVTEQTEKDGD KDFASEVTPSDLQKQMGNL  
EDAETKDLLVAAEAFSELNHLSPVQGTEASLCAPSVYEGKIFTQKSKVPVLDEGLTSVET  
YTPAIRANDNKS MADVLGDGGNSSLTISEGPIVSERRLNQEVALNLKEDHEVEVGVLKES  
VDLPEEKLPISDSPPD TQEIHVIEQE KLEAQDSGEEARNLSFNELYPSTLKLQYNFDTI  
DQQFCDLADNKDTAECDIAEVDGELFVAQSNFTLILEGEEGEVEPGDFASSDVLPKAANT  
ATEEKLVCSGENDNHGQIANLPASVTS DQKSQKVD TLPYVPEPIKVAIAENLLDV IKDTR  
SKEITSDTMEQSIHETIPLVSQNMCP TKLVKSAFKTAQETSTMTMNV SQVDDV VSSKTR  
TRGQRIQNVNVKSAQQEASADVATPKMPGQSVRKKTRKAKEISEASENIYSDVRGLSQNQ  
QIPQNSVTPRRGRRKKEVNQDILENTSSVEQELQITTGRESKRLKSSQLLEPAVEETTKK  
EVKVSSVTKRTPRRIKRSVENQESVEIINDLVSTVTSPSRMIRKL RSTNLDASENTGNK  
QDDKSSDKQLRIKHVRRVRGREVSPSDVRED SNLESSQLTVQAEFDMSAIPRKRGRPRKI  
NPSEDVGSKAVKEERSPKKKEAPSIRRRSTRNTPAKSENVDVGK PALGKSILVPNEELSM  
VMSSKKKLT KKTESQSQK RSLHSVSEERTDEMTHKETNEQEERLLATASFTKSSRSSRTR  
SSKAILLPDLSEPNNEPLFSPASEVPRKAKAKKIEVPAQLKELVSDLSSQFVISPPALRS  
RQKNTSNKNKLEDELKDDAQSVETLGKPKAKRIRTSKTKQASKNTEKESAWSPPIEIRL  
ISPLASPADGVKSKPRKTTEVTGTGLGRNRKKLSSYPKQILRRKML

>sp|Q8N766|EMC1\_HUMAN ER membrane protein complex subunit 1 OS=Homo sapiens GN=EMC1 PE=1  
SV=1

MAAEWASRFWLWATLLIPAAAVYEDQVGKFDWRQQYVGKVKFASLEFSPGSKKLVVATEK  
NVIAALNSRTGEILWRHVDKGTAEGAVDAMLLHGQDVITVSNGGRIMRSWETNIGGLNWE  
ITLDSGSFQALGLVGLQESVRYIAVLKKTTLALHHLSSGHLKWVEHLPESDSIHYQM VYS  
YGGV VVALGVVPF SHVNIVKF NVEDGEIVQVRVSTPWLQHLSGACGVVDEAVLCPDP  
SSRSLQTLALETWELRQIPLQSLDLEFGSGFQPRVLP TQPNPVDASRAQFFLHLSPSHY  
ALLQYHYGTLSLLKNFPQTALVSFATTGEKTVAAVMACRNEVQKSSSSE DGSMGSFSEKS  
SSKDSLACFNQTYTINLYLVETGRRLD TTTITSLEQSGTRPERLYIQVFLKDDSVGYR  
ALVQTEDHLLFLQQLAGKVVLWSREESLAEVVCLEMVDLPLTGAQAELEGEFGKKADGL  
LGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARDEFNLQMMVMVT  
ASGKLFGTIESSSGTILWKQYLPNVKPDSSFKLMVQRTTAHFPHPPQCTLLVKDKESGMSS  
LYVFNPIFGKWSQVAPPVLKRPILQSLLLPMDQDYAKVLLLIDDEYKVTAFPATRNVL R  
QLHELAPSIFFYLVDAEQGRLCGYRLRKDLTTELSWELTIPPEVQRIVKVKGKRSSEHVH  
SQGRVMGDRSVLYKSLNPNLLAVVTESTDAHHERTFIGIFLIDGVTGRIIHSSVQKKAKG  
PVHIVHSENWVVYQYWN TKARRNEFTVLELYEGTEQYNATAFSSSLDRPQLPQVLQSYIF  
PSSISAMEATITERGITSRHLLIGLPSGAILSLPKALLDPRRPEIPTEQSREENLIPYSP  
DVQIHAERFINYNQTVSRMRGIYTAPSGLESTCLVVAYGLDIYQTRVYPSKQFDVLKDDY  
DYVLISSVLFGLVFATMITKRLAQVKLLNRAWR

>sp|Q9BV81|EMC6\_HUMAN ER membrane protein complex subunit 6 OS=Homo sapiens GN=EMC6 PE=1  
SV=1

MAAVVAKREGPPFISEAAVRGNAAVLDYCRTSVSALSGATAGILGLTGLYGFIFYLLASV  
LLSLLLILKAGRRWNKYFKSRRPLFTGGLIGGLFTYVLFWTFLYGMVHVY

>sp|A4GXA9|EME2\_HUMAN Probable crossover junction endonuclease EME2 OS=Homo sapiens  
GN=EME2 PE=1 SV=3

MARVGPGRAGVSCQGRGRGGSGQRRPPTWEISDSAEDSAGSEAAARARDPAGERRAA  
AEALRLLRPEQVLKRLAVCVDTAILEDAGADVLMEALEALGCECRIEPQRPARSLRWTRA  
SPDPCPRSLPPEVWAAGEQELLLLLLEPEEFLQG VATLTQISGPTHWVPWISPETTARPHL  
AVIGLDAYLWSRQHVS RGTQQPESPKVAGAEVAVSWPEVEEALVLLQLWANLDVLLVASW  
QELSRHVCVTKALAQYPLKQYRESQAFS FCTAGRWAAGEPVARDGAGLQAAWRRQIRQF  
SRVSPAVADAVVTAFFSPRLLQQALEACSTERERMGLLADLPVPPSEGGRRPRRVGPDLRSR  
RICLFLTTANPDLLLDLGS

>sp|Q9UBX2|DUX4\_HUMAN Double homeobox protein 4 OS=Homo sapiens GN=DUX4 PE=1 SV=2

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSRQLRQHRRESRPWPGRGPPEGRRKRTAVTGSQTALLLRAFEKDRFPG  
IAAREELARETGLPESRIQIWFQNRRAHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVVSQAARAAPALQPSQAAPAEGISQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPAQAGPQQGGVLA  
PPTSQGSPPWWGWRGPQVAGAAWEPQAGAAPPPQPAPPDASASARQQMQGIPAPSQALQ  
EPAPWSALPCGLLDELASPEFLQQAQPLLEAPGELEAEEAASLEAPLSEEEYRAL  
LEEL

>sp|Q86XF0|DYRL1\_HUMAN Dihydrofolate reductase, mitochondrial OS=Homo sapiens GN=DHFRL1  
PE=1 SV=1

MFLLNLCIVAVSQNMGIGKNGDLPRPPLRNEFRYFQRM TTTSSVEGKQNLVIMGRKTWFS  
IPEKNRPLKDRINLVL SRELKEPPQGAHFLARSLDDALKLTERPELANKVDMIWIVGGSS  
VYKEAMNHLGHLKLFVTRIMQDFESDTFFSEIDLEKYKLLPEYPGVLSDVQEGKHIKYKF  
EVCEKDD

>sp|A2CJ06|DVTN\_HUMAN Dystrotelin OS=Homo sapiens GN=DVTN PE=2 SV=1

MDPDKQDALNSIENSIYRTAFKLQSVQTLCLDLIDSSLIQQVLLRPSFWEARKHSLSVQ  
QLSQALQELFQKAREENPGQVHPRAPELTSLTTMYSKGTGFLQLMPAAAALITLSGD  
SPLSKYRALFQLYAENSRGGYDSGPRMTRRVLRLKLLTDLQQIPTFVGESRALCPVESATR  
SCFQGVLSPAIKEEFKLSWVQSEPPILLWLPTCHRLSAAERVTHPARCTLCRTFPITGLR  
YRCLKCLNFDICQMCFLSGLHSHKSHQKSHPVIEHCIQMSAMQNTKLLFRTLNNLLQGRC  
RKKEAARRQQLLDQVNPKGVPHPHAQARLLKKQLNQYKDKLQAIYTSQEERICRFETRIHK  
LKTNQDSLWTKLQQIRRD LQARLQPPGPSSSSFQNVGNKVDHSSTEKVPKGGDYLQIKNA  
TEDASTGEPLPKLDEVD RSHRSHNTAEHALRNPESPETTLHSTRAQSQTQKMPQKVISAL  
PSYQEGLKQDIPKMVPAEMSSPALAAVEKKEAGNIKERKDELEEEELQELLSKLMDAFNL  
ETPSGPESSVNMDLYSGAQRVCRAFSALVDQIALPNLK

>sp|Q9NVP4|DZAN1\_HUMAN Double zinc ribbon and ankyrin repeat-containing protein 1 OS=Homo  
sapiens GN=DZANK1 PE=1 SV=3

MTAGSVCVPQIIPLRVPQPGKANHEIDNNTLLEMKSDTPDVNIYYTLDGSKPEFLKRIGY  
GENNTFKYIKPITLPDGKIQVKAI AVSKDCRQSGIVTKVFHVDYEPNIVSPEDNVENVL  
KDSSRQEFKNGFVSGSKLKKKYKNSENQRSWNVNLRKFPESPLEIPAYGGGSGSRPPTRQS  
QSPGFAHVSGQKCLTSTEIMRIQRETDFLKAHCLAPRPSDPFARFCQECGSPVPPIFGC  
RLPPEGAQMGLCAECRSLVPMNTPICVVCEAPLALQLQPQASLHLKEKVICRACGTGNP  
AHLRYCVTCEGALPSSQESMCSGDKAPPPPTQKGGTISCYRCGRWNLWEASFCGWCGAML  
GIPAGCSVCPKCGASNHL SARFCGSGICVKSLSVLSLDRSLALAAEPRPFSESLNIPL  
PRSDVGTKRDIGTQT VGLFYPSGKLLAKKEQELASQKQRQEKMSDHKPLLTATSPGRGYW  
RRQLDHISAHLRCYAQNNEFRALIAEPRMGKLI SATVHEDGCEVSIRLNYSQVSNKNLY

LNKAVNFSDDLSSAAEGDGLCGSRSSWSDYSQSTSDTIEKIKRIKNFKTKTFQEKKE  
QLIPENRLLLKEVGPTGEGRVSVIEQLLDEGADPNCCDEDNRPVITVAVMKNHHEAIPVL  
VQRGADIDQQWGPLRNTALHEATLLGLAGRESTATLLGCNASIQKKNAGGQTAYDLALNT  
GDDLVTSLFAAKFGQGLDQLAQRSLSLDDC

>sp|Q99848|EBP2\_HUMAN Probable rRNA-processing protein EBP2 OS=Homo sapiens GN=EBNA1BP2  
PE=1 SV=2

MDTPPLSDSESESLVTDRELQDAFSRGLLKPLNVVLEGPVKAVNDVNLKQCLAEF  
KRDLEWVERLDVTLGPVPEIGGSEAPAPQNKDQKAVDPEDDFQREMSFYRQAQAAVLAVL  
PRLHQLKVPTKRPTDYFAEMAKSDLQMOKIRQKLQTKQAAMERSEKAKQLRALRKYGKKV  
QTEVLQKRQKEKAHMNAIKKYQKGFSDKLDLFEGDQKPLAQRKKAGAKGQMRKGPSAK  
RRYKNQKFGFGGKKKGSKNWTRESYDDVSSFRAKTAHGRGLKRPKGKGSNKRPGKRTREK  
MKNRTH

>sp|O95672|ECEL1\_HUMAN Endothelin-converting enzyme-like 1 OS=Homo sapiens GN=ECEL1 PE=1  
SV=3

MEPPYSLTAHYDEFQEVKYVSRGAGGARGASLPPGFPLGAARSATGARSGLPRWNRREV  
CLLSGLVFAAGLCAILAAMLALKYLGPAAGGGACPEGCPERKAFARAARFLAANDASI  
DPCQDFYSFACGGWLRRAIPDDKLTGTIAAIGEQNEERLRLLARPGGGPGAAQRKV  
RAFFRSCLDMREIERLGPRPMLEVIEDCGGWDLGGAERPVGVAARWDLNRLLYKAQGVYS  
AAALFSLTVSLDDRNSSRYVIRIDQDGLTLPERTLYLAQDEDESEKILAAVRVFMERVL  
SL LGADAVEQKAQEILQVEQQLANITVSEHDDLRRDVSSMYNKVTLGQLQKITPHLRWKWLL  
DQIFQEDFSEEEVVLLATDYMQQVSQLIRSTPHRVLHNYLVWRVVVLSEHLSPPFREA  
LHELAQEMEGSDKPQELARVCLGQANRHFGMALGALFVHEHFSAAASKAKVQQLVEDIKYI  
LGQRLEELDWDMAETRAAARAKLYMMVMVGYPDFLLKPDADVKEYEFVHEKTYFKNIL  
NSIRFSIQLSVKKIRQEVDKSTWLLPPQALNAYYLPNKNQMVFPAGILQPTLYDPDFPQS  
LNYGGIGTIIIGELTHGYDDWGGQYDRSGNLLHWWTEASYSRFLRKAECIVRLYDNFTVY  
NQRVNGKHTLGENIADMGLKLAYHAYQKWVREHGPEHPLPRLKYTHDQLFFIAFAQNWC  
IKRRSQSIYLVLTDKHAPEHYRVLGVSQSFEFEGRAFHC PKDSPMNP AHKCSVW

>sp|Q96DC8|ECHD3\_HUMAN Enoyl-CoA hydratase domain-containing protein 3, mitochondrial  
OS=Homo sapiens GN=ECHDC3 PE=1 SV=2

MAAVAVLRAFGASGPMCLRRGPWAQLPARFCSRDPAGAGRRESEPRPTSARQLDGIRNIV  
LSNPKKRNALSLAMLKSLQSDILHDADSNDLKVIIISAEGPVFSSGHDLEKELTEEQGRDY  
HAEVFQTC SKVMHIRNHPVPVIA MVNGLAAAAGCQLVASCDIAVASDKSSFATPGVNVG  
LFCSTPGVALARAVPRKVALEMLFTGEPISAQEALLHGLLSKVVP AEELQEETMRIARKI  
ASLSRPVVS LGKATFYKLPQLD LGTAYYLT SQAMVDNLALRDGQEGITAF LQKRKPVWSH  
EPV

>sp|Q008S8|ECT2L\_HUMAN Epithelial cell-transforming sequence 2 oncogene-like OS=Homo  
sapiens GN=ECT2L PE=2 SV=2

MESFHTRFSAWTPFSNKS LNRQLFQERVALISHWFDLWTKRQREFLFAIFLRCTKSQLR  
FVQDWFSERMVAVKVDFTVLPRFISLYIFSFLSPKDLCAAAQVSWPWKFLTEQDCLWMP  
KCVKFGWFLPYPTDNEYGAWK RHYIACVSHLDWLT PREAAATYGT LNEPKTEDEELLER  
QREKCLRKR IWEKIALRKKELFKVRPPWVSGTCCSSVLKPRCQPRLSQTVRERVGLHEAL  
EKQLVLTSL ETLPKRSNISGSHSYPLLSKKNWHGVHKND RSSYALRPHFMLISSRIPAY  
EMVMESVKAGVSVVYEH SVTLESLLYLIEKALDGQAQSIGIFSDGDSREINLLQGYKI  
GVKNLLRPEVRDFWEKLG SYVATEEEGGHVDFVPLGASEAGIEVLSQLS QLTGTFFTAP

TGIATGSYQHILSDWLGSQWGKAPSSIIYFCESKLQWSSFTDFLEETLKTVRKQLYPFFK  
ELQKSISGRMIGQFMFDTMGMTNILNNQDTAQALADGLMELSKEDSERNVVEDNSWDTKS  
RLSKNDLNFEALINLERILQKDSA EKRARVVRELLQSERKYVQILEIVRDVYVAPLKAAL  
SSNRAILSAAANIQIIFCDILQILSLNRQFLDNLRDRLQEWGPAHCVG EIVTKFGSQLNTY  
TNFFNNYPVILKTI EKCREMIPAFRTFLKRHDKTIVTKMLSLPELLLYPSRRFEEYLNLL  
YAVRLHTPAEHVDRGDLTTAIDQIKKYKGYIDQMKQNITMKDHLSDIQRIIWGCPTLSEV  
NRYLIRVQDVAQLHCCDEEISFSLRLYEHIHDSLFLFNDALLVSSRGTSHTPFERTSKT  
TYQFIASVALHRLLIENIPDSKYVKNAFILQGPKYKWICATEIEDDKFLWLSVLRNAIKS  
SMEK

>sp|Q92838|EDA\_HUMAN Ectodysplasin-A OS=Homo sapiens GN=EDA PE=1 SV=2

MGYPEVERRELLPAAAPRERGSQGC GCGGAPARAGEGNSCLLFLGFFGLSLALHLLTLCC  
YLELRSELRRERGAESRLGGSGTPGTSGTSSLGGLDPDSPITSHLGQPSPKQPLEPGE  
AALHSDSQDGHQMALLNFFFPDEKPYSEESRRVRRNKRKSNEGADGPVKNKKKGKKAG  
PPGPNPPGPPGPPGPPGQPPGIPGIPGIPGTTVMGPPGPPGPPGQPPGLQGPGSAAADK  
AGTRENQPAVVHLQGGQSAIQKNDLSGGVLNDWSRITMNPKVFKLHPRSGEVLVDGT  
YFIYSQVEVYYYINFDFASYEVVVDEKPFLQCTRSIETGKNTYNTCYTAGVCLLKARQKI  
AVKMHADISINMSKHTTFFGAIRLGEAPAS

>sp|Q96G04|EF2KT\_HUMAN Protein-lysine N-methyltransferase EF2KMT OS=Homo sapiens  
GN=EEF2KMT PE=1 SV=2

MAPEENAGTELLQSFERRFLAARTLRSFPWQSLEAKLRDSSDSELLRDILHKT VKHPVC  
VKHPPSVKYARCFSELIKKHEAVHTEPLDELYEALAETLMAKESTQGHRSYLLPSGGSV  
TLSESTAIISYGTGLVTWDAALYLAEWAIENPAVFTNRTVLELGSGAGLTGLAICKMCR  
PRAYIFSDCHSRVLEQLRGNVLLNGLSLEADITAKLDSPRVTVAQLDWDVATVHQLSAFQ  
PDVVI AADVLYCPEAIMSLVGLRRLAACREHQRAPEVYVAFTVRNPETCQLFTTELGRA  
GIRWEVEPRHEQKLFPYEEHLEMAMLNLT

>sp|O00418|EF2K\_HUMAN Eukaryotic elongation factor 2 kinase OS=Homo sapiens GN=EEF2K PE=1  
SV=2

MADEDLIFRLEGVDGGQSPRAGHDGSDGSDSDEEGYFICPITDDPSSNQNVNSKVNKYY  
SNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERATRHRYNAV  
TGEWLDDEVLIKMASQPFGRGAMRECFRTKKLSNFLHAQQWK GASNYVAKRYIEPVDRDV  
YFEDVRLQMEAKLWGEEYNRHKPPKQVDIMQMCIELKDRPGKPLFHLEHYIEGKYIKYN  
SNSGFVRDDNIRLTPQAFSHFTFERSGHLIVVDIQGVGDLYTDPQIHTETGTDFGDGNL  
GVRGMALFFYSHACNRICESMGLAPFDLSPRERDAVNQNTKLLQSAKTILRGTEEKCGSP  
QVRTLSGSRPPLRLPLENSGDENMSDVTFDLSLSSPSSATPHSQKLDHLHWPVFSDDLND  
MASRDHDHLDNHRESENSGDSGYPSEKRGELDDPEPREHGHSSYNRKYESDEDSLGS SGR  
VCVEKWNLLNSSRLHLPRASAVALEVQRLNALDLEKKIGKSILGKVHLAMVRYHEGGRFC  
EKGEEDWQESAVFHLEHAANLGELEAIVGLGLMYSQ LPHHILADVSLKETEEKTKGFDY  
LLKAAEAGDRQSMILVARAFDSGQNLSPDRCQDWLEALHWYNTALEMTDCDEGGEYDGMQ  
DEPRYMLLAREAEMLFTGGYGLEKDPQRSGDLYTQAAEAAMEAMKGR LANQYYQKAEAEAW  
AQMEE

>sp|Q9HA90|EFCC1\_HUMAN EF-hand and coiled-coil domain-containing protein 1 OS=Homo  
sapiens GN=EFCC1 PE=2 SV=2

MEPVSTGAEGMEGAGGDPYRRPARRTQWLLSALAHHYGLDRGVENEIVVLATGLDQYLQ  
EVFHHLDCRGAGRLPRADFRALCAVLGLRAEGATTAGQAAGDGN SRDVT PGDAAAE LATD

GSDTDDEEARLALRAEPPELTFRQFHARLCGYFGTRAGPRLPRGALSEHIETQIRLRRPR  
RRRRPPCAPGPDSPDCERVAREEENSSLRELVEDLRAALQSSDARCLALQVGLWKSQA  
STHEMGHGGPEAAVRELQAQALAAAEARAGRLRRGQAEVRRRAEEARQVVLRSLSHRVR  
ELEALAAQVPGLQRWVRLEAELQRYRSEDSQLPTPQLANPEPGDKSNEPEDAGTRDPDP  
TPEGAWQSDSSSGSRALDEVDEQLFRSVEGQAASDEEEVEEERWQEEKKTPAAEAKTLA  
RLSSCRGRCDQTAEKLMTYFGHFGGANHAHTLGELEACIAMLVEQLRTQCGGRTLGT  
EEEAEELQKVEENEHLRLELQMVETERVRLSLEEKLVDVLQLLQRLDLNISKRALGKI  
LLSTLDAFRDPTHEGRPSPAAILDALHQAACQLRRQPSAPASAAAAATNPLLVS

>sp|Q96C19|EFHD2\_HUMAN EF-hand domain-containing protein D2 OS=Homo sapiens GN=EFHD2 PE=1 SV=1

MATDELATKLSRRLQMEGEGGGGETPEQPGLNGAAAAAGAPDEAAEALGSADCELSAKLL  
RRADLNQGIGEPQPSRRRVFNPYTEFKEFSRKQIKDMEKMFQYDAGRDFIDLMELKLM  
MEKLGAPQTHLGLKNMIKEVDEDFDSKLSFRELLIFRKAAGELQEDSGLCVLARLSEI  
DVSSEGVKGAKSFFAEKVQAINVSSRFEEEIKAEQEERKKQAEEMQRKAAFKELQSTFK

>sp|P20827|EFNA1\_HUMAN Ephrin-A1 OS=Homo sapiens GN=EFNA1 PE=1 SV=2

MEFLWAPLLGLCCSLAAADRHTVFWNSSNPKFRNEDYTIHVQLNDYVDIICPHYEDHSVA  
DAAMEQYILYLVEHEEYQLCQPQSKDQVRWQCNRPSAKHGPEKLSEKFQRFTPFTLGKEF  
KEGHSYYYISKPIHQHEDRCLRLKVTVSGKITHSPAHDNPQEKRLAADDPEVRVLHSIG  
HSAAPRLFPLAWTVLLLPLLLLQTP

>sp|Q0D2K5|EGFEM\_HUMAN Putative EGF-like and EMI domain-containing protein 1 OS=Homo sapiens GN=EGFEM1P PE=5 SV=1

MDELRWYHITVCLDHIFGHNCSLSCKDCMNGGKCQEGKSECSCPAGCRVILCNENCLEGA  
YGAGCTSECQVSEENTLECSAKNGSCTCKSGYQGNRCQKDGLWGPEGWFSSAPCENGQC  
NKKTGNCDCPTDYTRKSCTILRCISLTNLALSRRSSPMKYQQNVSSHREVRQRQQCSSDR  
PFKLLCKFSFKIGM

>sp|Q63HQ2|EGFLA\_HUMAN Pikachurin OS=Homo sapiens GN=EGFLAM PE=1 SV=2

MDLIRGVLLRLLLLASSLPGAVSLRAAIRKPGKVGPPDLIKLGALNCTAFSIQWKMPRH  
PGSPILGYTVFYSEVGADKSLQEQLHSVPLSRDIPTTEEVIGDLKPGTEYRVSIAAYSQA  
GKGRLSSPRHVTTLSDSCLPPAAPQQPHVIVVSDSEVALSWKPGASEGSAPIQYYSVEF  
IRPDFDKKWTSIHERIQMDSMVIKGLDPTNYQFAVRAMNSHGSPRSWPSDIIRTLCP  
EAGSGRYGPRYITDMGAGEDDEGFEDDLDLISFEEVKPLPATKGGNKKFLVESKKMSIS  
NPKTISRILPPTSASLPVTTVAPQPIPIQRKGKNGVAIMSRLFDMPCDETLCSADSFCVN  
DYTWGGSRCQCTLGKGGESCEDIVIQYPQFFGHSYVTFEPLKNSYQAFQITLFRAEAE  
DGLLLYCGENEHGRGDFMSLAIIRRLQFRFNCGTGVAIIIVSETKIKLGGWHTVMLYRDG  
LNGLQLNNGTPVTGSGQYSKITFRTPLYLGGAPSAYWLVRATGTNRGFQGCQVSLAV  
NGRRIDMRPWPLGKALSGADVGECSGICDEASCIHGGTCTAIKADSYICLCPLGFKGRH  
CEDAFTLTIPQFRESLSRYAATPWPLEPQHLYSFMFEITFRPDSGDGVLLYSYDTGSKD  
FLSINLAGGHVEFRFDCSGTGVLRSEDPLTLGNWHELVRSTAKNGILQVDKQKIVEGM  
AEGGFTQIKCNTDIFIGVPPNYDDVKKNSGVLPKPSGSIQKIILNDRTHVKHDFTSQVN  
VENAAHPCVRAPCAHGGSCRPRKEGYDCDCPLGFEGLHCQKECGNYCLNTIEAIEIPQF  
IGRSYLTYPNDILKRVSGSRNVFMRFKTTAKDGLLLWRGDSMPRPNPDFISLGLRDGA  
LVFSYNLGSVASIMVNGSFNDGRWHRVKAVRDGQSGKITVDDYGARTGKSPGMMRQLNI  
NGALYVGMKEIALHTNRQYMRGLVGCISHFTLSTDYHISLVEDAVDGKNINTCGAK

>sp|Q9NZN4|EHD2\_HUMAN EH domain-containing protein 2 OS=Homo sapiens GN=EHD2 PE=1 SV=2



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VLVAGQYSTGKTSFIQYLLEQEVPGSRVGPEPTTDCFVAVMHGDTEGTVPGNALVVDPK  
PFRKLNPFNTFLNRFMCAQLPNQVLESISIIDTPGILSGAKQVRSGYDFPAVLRWFAE  
RVDLIILLFDAHKLEISDEFSEAI GALRGHEDKIRVVLNKADMVETQQLMRVYGALMWAL  
GKVVGTPEVLRVYIGSFWSQPLLVPDNRRLFELEEQDLFRDIQGLPRHAALRKLNDLVKR  
ARLVRVHAYIISYLKKEMPSVFGKENKKQLILKLPVIFAKIQLEHHISPGDFPDCQKM  
ELLMAHDFTKFHSKPKLLEALDEMLTHDIAKLMPLLRQEELESTEVGVGGAFFEGTHMG  
PFVERGPDEAMEDGEEGSDDEAEVVT KD KSKYDEIFYNLAPADGKLSGSKAKTWMVGTK  
LPNSVLGRIWKLSDVDRDGM LDDEEFALASHLIEAKLEGHGLPANLPRRLVPPSKRRHKG  
SAE

>sp|Q9H9B1|EHMT1\_HUMAN Histone-lysine N-methyltransferase EHMT1 OS=Homo sapiens GN=EHMT1  
PE=1 SV=4

MAAADAEAVPARGEPQQDCCVKTELLGEETPMAADEGSAEKQAGEAHMAADGETNGSCEN  
SDASSHANAAKHTQDSARVNPQDGTNTL TRIAENGVSERDSEAAKQNHVTADDFVQTSVI  
GSNGYILNKPALQAQPLRTTSTLASSLPGHAAKTLPGGAGKGRTPSAFPQTPAAPPATLG  
EGSADTEDRKLPAPGADV K VHRARKTMPKSVVGLHAASKDPREVREARDHKEPKKEINKN  
ISDFGRQQLPPFP SLHQSLPQNCYMATTKSQTACL PFVLA AAVSRKKRRRMGTYS LVP  
KKKT KVLKQRTV IEMFKSITHSTVGSKEKDLGASSLHVNGESLEMSDEDDSEEELEDD  
GHGAEQAAAFPTEDSRTSKESMSEADRAQKMDGESEEEQESVDTGEEEEGGDES DLSSSES  
SIKKKFLKRKGKTDSPWIKPARKRRRRSRKKPSGALGSESYKSSAGSAEQTAPGDSTGYM  
EVS LDSL DL RVKGI LSSQA EGLANGPDVLETDGLQEVPLCSCRMETPKSREITTLANNQC  
MATESVDHELGRCTNSVVKYELMRPSNKA PLLVL CEDHRGRMVKHQCCPGCGYFCTAGNF  
MECQPESSISHRFHKDCASRVNNASYCPHCGEESSKAKEVTIAKADTTSTVTPVPGQEK  
SALEGRADTTTGSAA GPPLSEDDKLQGAASHVPEGFDPTGPAGLGRPTPGLSQGP GKETL  
ESALIALDSEKPKKLR FHPKQLYFSARQGELQKVLLMLVDGIDPNFKMEHQNKRSPLHAA  
AEAGHVDICHMLVQAGANIDTCS EDQRTPLMEAAENNHLEAVKYL IKAGALVDPKDAEGS  
TCLHLAAKKGHYEVVQYLLSNGQMDVNCQDDGGWTPMIWATEYKHVDLVKLLSKGSDIN  
IRDNEENICLHWA AFGSCVDIAEILLAAKCDLHAVNIHGDSPLHIAARENRYDCVVLFLS  
RDS DVT LKNKEGETPLQCASLNSQVWSALQMSKALQDSAPDRPSPVERIVSRDIARGYER  
IPIPCVNAV DSEPCPSNYKYVSQNCVTSPMNIDRNITHLQYCVCIDDCSSSNCMCGQLSM  
RCWYDKDGRLLPEFNMAEPPLIFECNHACSCWRNCRNRVVQNGLRARLQLYRTRDMGWGV  
RSLQDIPP GTFVCEYVGELISDSEADVREEDSYLFDLDNKDGEVYCIDARFYGNVSRFIN  
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PKCRHSSAALAQRQA SAAQEAQEDGLPDTSSAAAADPL

>sp|Q96KQ7|EHMT2\_HUMAN Histone-lysine N-methyltransferase EHMT2 OS=Homo sapiens GN=EHMT2  
PE=1 SV=3

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SKGGSCPSRAKMSMTGAGKSPPSVQSLAMRLLSMPGAQGAAAAGSEPPPATTSPGQPKV  
HRARKTMSKPGNGQPPVPEKRPPEIQHFRMSDDVHSLGKVTSDLAKRRKLNSSGGGLSEEL  
GSARRSGEVT LTKGDPGSLEEWETVVGDDFSLYYDSYSVDERVDSKSEVEALTEQLSE  
EEEEEEEEEEEEEEEEEEEEDEESGNQSDRSGSSGRKAKKKWRKDSPPWKPSRKRR  
KREPPRAKEPRGVNGVGSSGPSEYMEVPLGSLELPSEGTLSPNHAGVSNDTSSLETERGF  
EELPLCSCRM EAPKIDRISERAGHKCMATESVDGELSGCNAAILKRETMRPSSRVALMVL

CETHRARMVKHHCCPGCGYFCTAGTFLECHPDFRVAHRFHKACVSQLNGMVFCPHCGEDA  
SEAQEV TIPRGDGVTPPAGTAAPAPPPLSQDVPGRADTSQPSARMRGHGEPRRPPCDPLA  
DTIDSSGSPSLTLPNGGCLSAVGLPLPGGREALEKALVIQESERRKKLRFHPRQLYLSVKQ  
GELQKVLMLLDNLPNFQSDQSKRTPLHAAQKGSVEICHVLLQAGANINAVDKQQRT  
PLMEAVNNHLEVARYMVQRGGCVYSKEEDGSTCLHHAAKIGNLEMVSLLLSTGQVDVNA  
QDSGGWTPIIWAAEHKHIEVIRMLLTRGADVTLTDNEENICLHWASFTGSAAIAEVLNA  
RCDLHAVNYHGDTPLHIAARES YHDCVLLFLSRGANPELRNKEGDTAWDLTPERSDVWFA  
LQLNRKLRLGVGNRAIRTEKIIICRDVARGYENVPIPCVNGVDGEPCEPYKYISENCETS  
TMNIDRNITHLQHCTCVDDCSSNCLCGQLSIRCWYDKDGRLLQEFNKIEPPLIFECNQA  
CSCWRNCKNRVVQSGIKVRLQLYRTAKMGWGVRLQTIPQGT FICEYVGELISDAEADVR  
EDDSYLFDLNDKGEVYCIDARYYGNISRFINHLCDPNIIPVRVFMHLHQDLRFPIAFFS  
SRDIRTGEELGFDYGRFWDIKSKYFTCCQCGSEKCKHSAEAIQESRLARLDPHPELLP  
ELGSLPPVNT

>sp|Q9Y6B2|EID1\_HUMAN EP300-interacting inhibitor of differentiation 1 OS=Homo sapiens  
GN=EID1 PE=1 SV=1

MSEMAELSELYEESDLQMDVMPGEGDLPQMEVGSRELSLRPSRSGAQQLEEEGPMEE  
EEAQPMAAPEGKRSLANGPNAGEQPGQVAGADFESEDEGEEDDWWEDDYDYPEEEQLSGA  
GYRVSAALEEADKMFLRTREPALDGGFQMHYEKT PFDQLAFIEELFSLMVVNRLTEELGC  
DEIIDRE

>sp|Q8N9N8|EIF1A\_HUMAN Probable RNA-binding protein EIF1AD OS=Homo sapiens GN=EIF1AD PE=1  
SV=1

MSQATKRKHVVKEVLGEHIVPSDQQQIVRVLRTPGNNLHEVETAQQQRFLVSMPSKYRKN  
IWIKRGDFLIVDPIEEGEKVKAIESFVLCKDHVRSLQKEGFWEAFSEVAEKHNRRNRQT  
QPELPAEPQLSGEESSEDDSDLFVNTNRRQYHESEEEEEEEEEAA

>sp|Q14152|EIF3A\_HUMAN Eukaryotic translation initiation factor 3 subunit A OS=Homo  
sapiens GN=EIF3A PE=1 SV=1

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LRKSHLAKEGLYQYKNICQVNIKSLEDVVRAYLKMAEEKTEAAKEESQQMVLDIEDLDN  
IQTPESVLLSAVSGEDTQDRDRLLLTPWVKFLWESYRQCLDLLRNNRVERLYHDIAQQ  
AFKFCLQYTRKAEFRKLCNLRMHLSQIQRHNNQSTAINLNPESQSMHLETRLVQLDSA  
ISMELWQEAFAKAVEDIHGLFSLSKPPKPQLMANYYNKVSTVFWKSGNALFHASTLHRLY  
HLSREMRKNLTQDEMQRMSTRVLLATLSIPTPERTDIARLLDMDGIIIEKQRRLATLLG  
LQAPPTRIGLINDMVRFNVLQYVVPEVKDLYNWLEVEFNPLKLCERVTKVLNWWREQPEK  
EPELQQYVPQLQNNITLRLQVVSQIYQSIEFSRLTSLVPFVDAFQLERAIVDAARHCDL  
QVRIDHTSRTL SFGSDLNYATREDAPIGPHLQSMSEQIRNQLTAMSSVLAKALEVIKPA  
HILQEKEEQHQLAVTAYLKNRKEHQRILARRQTIEERKERLESLNIQREKEELEQREAE  
LQKVRKAEERLRQEAKEREKERILQEHEQIKKKTVRERLEQIKKTELGAFAFKDIDIED  
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DMDLWEQQEEERITTMQLEREKALEHKNRMSRMLIEDRDLFVMRLKAARQSVYEEKLKQFE  
ERLAERHNRLEERKRQRKEERRITYYREKEEEEQRRAEQMLKEREERERAERAKREEE  
LREYQERVKKLEEVERKKRQRELEIEERERRREEERRLGDSSLRKDSRWGDRDSEGTWR  
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GMDDDRGPRRGPEEDRFSRRGADDDRPSWRNTDDDRPPRIADEDRGNWRHADDDRPPRR  
GLDEDRGSWRTADEDRGPRRGMDDDRGP RRGGADDERSSWRNADDDRGP RRGLDDDRGPR

RGMDDDRGPRRGMDDDRGPRRGMDDDRGPRRGLDDDRGPWRNADDDRIPRRGAEDDRGPW  
RNMDDDRLSRRADDDRFPRRGDDSRPGPWRPLVKPGGWREKEKAREESWGPPRESRPSEE  
REWREKERDRDNQDREENDKDPERERDRERDVEDREDFRFRPRDEGGWRRGPAEESSWR  
DSSRRDDRDRDDRRERDDRRDLRERRDLRDDRRRGPLRSEREVSSWRRADDRKDDR  
VEERDPPIRRVPPPALSRDRERDREREKEKEKASWRAEKDRESLRRTKNETDEDGWTTV  
RR

>sp|Q9HBU6|EKI1\_HUMAN Ethanolamine kinase 1 OS=Homo sapiens GN=ETNK1 PE=1 SV=1

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EGSTSLSAVAVLVAVAVVVVVSAVAMANYIHVPPGSPVVKLVNTVQDQEEHRCRE  
GALLSLQHLRPHWDPQEVTLQLFTDGITNKLIGCYVGNTMEDVVLVRIYGNKTELLVDRD  
EEVKSFVRLQAHGCAPQLYCTFNGLCYEFIQGEALDPKHVCNPAIFRLIARQLAKIHAI  
HAHNGWIPKSNLWLMGKYFSLIPTGFADEDINKRFLSDIPSSQILQEEMTWMKEILSNL  
GSPVVLCHNDLLCKNIIYNEKQGDVQFIDYEYSGYNYLAYDIGNHFNEFAGVSDVDYSLY  
PDRELQSQWLRAYLEAYKEFKGFGTEVTEKEVEILFIQVNFQFALASHFFWGLWALIQAKY  
STIEFDLGYAIVRFNQYFKMKPEVTALKVPE

>sp|P19957|ELAF\_HUMAN Elafin OS=Homo sapiens GN=PI3 PE=1 SV=3

MRASSFLIVVFLIAGTLVLEAAVTGVPVKGQDTPVKGVPFNGQDPVKGQVSVKGQDKVK  
AQEPVKGVPSTKPGSCPIILIRCAMLNPPNRCLKDTCPIKKCEGSCGMACFVPQ

>sp|A6NLW8|DUXA\_HUMAN Double homeobox protein A OS=Homo sapiens GN=DUXA PE=3 SV=1

MAEDTYSHKMVKTNHRRCKTKFTEEQLKILINTFNQKPYPGYATKQKLALAEINTEESRIQ  
IWFQNRARRHGFQKRPEAETLESSQSQGDQPGVEFQSRREARRCRTTYSASQLHTLIKAF  
MKNPYPGIDSREELAKEIGVPESRVQIWFQNRRLQLLRKREPVASLEQEEQGIPEGL  
QGAEDTQNGTNFTSDSHFSGARTW

>sp|Q96PT4|DUX3\_HUMAN Putative double homeobox protein 3 OS=Homo sapiens GN=DUX3 PE=2  
SV=1

MPAEVHGSPASLCPSPSVKFRPGLPAMALLTALDDTLPEEAQGPGRMILLSTPSQSDA  
LRACFERNLYPGIATKEQLAQGIDIPEPRVQIWFQNERSCQLRQHRRQSRPWPGRRDPQK  
GRRKRTAITGSQTALLLRAFEKDRFPGIPAREELARETGLPESRIQLWFQNRARRHWGQS  
GRAPTQASIRCNAAPIG

>sp|O14640|DVL1\_HUMAN Segment polarity protein dishevelled homolog DVL-1 OS=Homo sapiens  
GN=DVL1 PE=1 SV=2

MAETKIIYHMDDEETPYLVKLPVAPERVTLADFKNVLSNRPVHAYKFFFKSMDQDFGVVK  
EEIFDDNAKLPCFNGRVSWLVAEGAHS DAGSQGTDSHTDLPPPLERTGGIGDSRPPSF  
HPNVASSRDGMDNETGTESMVSHRRERARRRNREEAARTNGHPRGDRRDVGLPPDSAST  
ALSSELESSFVDSDEGDSTSLSSSTEQSTSSRLIRKHKRRRRKQRLRQADRASSFSSI  
TDSTMSLNIVTVTLNMRHHFLGISIVGQSNDRGDGGIYIGSIMKGGAVAADGRIEPGDM  
LLQVNDVNFNENMSNDDAVRVLRREIVSQTGPISLTVAKCWDPTPRSYFTVPRADPVRPIDP  
AAWLSHTAALTGALPRYGTSPCSSAVTRTSSSLTSSVPGAPQLEEAPLTVKSDMSAVVR  
VMQLPDSGLEIRDRMWLKITIANAVIGADVVDWLYTHVEGFKERREARKYASSLLKHGFL  
RHTVKNKITFSEQYYVFGDLCNLATLNLNSGSSGTSDQDTLAPLPHPAAPWPLGQGYPY  
QYPGPPPCFPAYQDPGFSYSGSGTGSQQSEGSKSSGSTRSSRRAPGREKERRAAGAGGS  
GSESDHTAPSGVGSSWRERPAQLSRGSSPRSQASATAPGLPPPHPTTKAYTVVGPPPGG  
PPVRELAAVPPELTGSRQSFQKAMGNPCEFFVDIM

>sp|014641|DVL2\_HUMAN Segment polarity protein dishevelled homolog DVL-2 OS=Homo sapiens  
GN=DVL2 PE=1 SV=1

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DQDFGVVKEEISDDNARLPCFNGRVVS WLVSDDNPQEMAPPVHEPRAELAPPAPPLPPL  
PPERTSGIGDSRPPSFHPNVSSSHENLEPETETESVVS LRRERPRRRDSSEHGAGGHRTG  
GPSRLERHLAGYESSSTLMTSELESTSLGDSDEEDTMSRFSSSTEQSSASRL LKRHRRRR  
KQRPRLERTSSFSSTVDTMSLNIITVTLNMEKYNFLGISIVGQSNERGDGGIYIGSIM  
KGGAVAADGRIEPGDM LLQVNDMNFENMSNDDAVRVL RDIVHKPGPIVLTVAKCWDPS PQ  
AYFTLPRNEPIQPIDPAAWVSHSAALTGTFPAYPGSSSMSTITSGSSLPDGCEGRGLSVH  
TDMASVTKAMAAPESGLEVRDRMWLKITIPNAFLGSDVVDWLYHHVEGFPERREARKYAS  
GLLKAGLIRHTVNKITFSEQCYVFGDLGGCESYLVNLSLNDNDGSSGASDQDTLAPLP  
GATPWLLPTFSYQYPAPHYPSPQPPPYHELSSYTYGGGSASSQHSEGRSSSGSTRSDGG  
AGRTGRPEERAPESKSGSGSESEPSSRGGSLRRGGEASGTS DGGPPPSRGSTGGAPNLRA  
HPGLHPYGGPPGMALPYNPMVMVMPPPPPPVPPAVQPPGAPPVRDLGSVPPELTASRQS  
FHMAMGNPSEFFVDVM

>sp|P54792|DVL1P1\_HUMAN Putative segment polarity protein dishevelled homolog DVL1P1  
OS=Homo sapiens GN=DVL1P1 PE=5 SV=1

MAETKIIYHMDEEETPYLVKLPVAPERVT LADfKNVLSNRPVHAYKFFFKSMDQDFGVVK  
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QPDVASSRDGMDNETGTESMVSHRRDRARRRNREEAARTNGHPRGDRRRDVGLPPDSAST  
ALSSELESSSFVDSDEDDSTSR LSSSTEQSTSSRLIRKHKRRRRKQRLRQADRASSFSSM  
TDSTMSLNIITVTLNMRHHFLGICIVGQSNDRGDGGIYIGSIMKGGAVAADGRIEPGDM  
LLQVNDVN FENMSNDDAVRVLREIVSQTGPISLTVAKCWDPTPRS YFTVPRPDVVRPIDP  
AAWLSHTAALTGALPRPQLEEAPLTVESDMNTVVRVMQLPDSGLEIRDRMWLKITIANAV  
IGADVVDWLYTHVEGFKERREARKYASSLLKHGFLRHTVNKITFSEQCYVFGDLCSNLA  
TLNLNSGSSGSTDQDTLAPLHPAAPWPLGQGYPYQYPGPPPCFPAYQDPGFSYSGSGST  
GSQQSEGSKSSGSTRNTRPPACEKERRAAGSGDSSES DHTAPSGVGSSWRERPADQLS  
RGSSPRSQASSYAPGLPPPHPTKAYTVVGGPPGPPVRELA AVPPELTGSRQSFQKAMG  
NPCEFFVDIM

>sp|PODN84|DWORF\_HUMAN Sarcoplasmic/endoplasmic reticulum calcium ATPase regulator DWORF  
OS=Homo sapiens PE=3 SV=1

MAEKGSTFSHLLVPILLIGWIVGCIIMIYVVS

>sp|077932|DXO\_HUMAN Decapping and exoribonuclease protein OS=Homo sapiens GN=DXO PE=2  
SV=2

MDPRGTRGAEKTEVAEPRNKLPRPAPSLPTDPALYSGPFFFYRRPSELGCFSLDAQRQY  
HGDARALRYYSPPPTNGPGPNFDLRDGYPDYQPRDEEVQERLDHLLCWLLEHRGRLEGG  
PGWLAEAIVTWRGHLTKLLTTPYERQEGWQLAASRFQGTLYLSEVETPNARAQRLARPPL  
LRELMYMGYKFEQYMCADKPGSSPDPSGEVNTNVAFCSVLRSRLGSHPLLFSGEVDCTDP  
QAPSTQPPTCYVELKTSKEMHSPGQWRSFYRHKLLKWWAQSFLPGVPNVVAGFRNPDGFV  
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VTVSVHQDAPYAFLPIWYVEAMTQDLPSPPKTPSPK

>sp|Q9UQ16|DYN3\_HUMAN Dynamin-3 OS=Homo sapiens GN=DNM3 PE=1 SV=4

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SGIVTRRPLVLQLVTSKAEYAEFLHCKGKKFTDFDEVRL EIEAETDRVTGMNKGISSIPI

NLRVYSPHVLNLTIDLPGITKVPVGDQPPDIEYQIREMIMQFITRENCLILAVTPANTD  
LANSALKLAKEVDPQGLRTIGVITKLDLMDEGTDARDVLENKLLPLRRGYVGVNRSQK  
DIDGKKDIKAAMLAEKFFLSHPAYRHIADRMGTPHLQKVLNQQLTNHIRDTLPNFRNKL  
QQQLLSIEHEVEAYKNFKPEDPTRKTKALLQMVQQFAVDFEKRIEGSGDQVDTLELSGGA  
KINRIFHERFPFEIVKMEFNEKELRREISYAIKNIHGIRTGLFTPDMAFEAIVKKQIVKL  
KGPSLKSVDLVIQELINTVKKCTKKLANFPRLCEETERIVANHIREGKTKDQVLLLID  
IQVSYINTNHEDFIGFANAQQRSSQVHKKTTVGNQGTNLPPSRQIVIRKGWLTISNIGIM  
KGGSKGYWFLTAESLSWYKDDEEKEKKYMLPLDNLKVRDVEKSFMSKHI FALFNTEQR  
NVYKDYRFLELACDSQEDVDSWKASLLRAGVYPDKSVAENDENGQAENFSMDPQLERQVE  
TIRNLVDSYMSIINKCIRDLIPKTIHMLMINNVKDFINSELLAQLYSSSEDQNTLMEESAE  
QAQRDEMLRMYQALKEALGIIGDISTATVSTPAPPVDDSWIQHSRRSPPPSPTTQRRP  
TLSAPLARPTSGRGPAPAIPSPGPHSGAPPVFRPGPLPPFPSSSDSFGAPPQVPSRPTR  
APPSVPSRRPPSPTRPTIIRPLESSLLD

>sp|075923|DYSF\_HUMAN Dysferlin OS=Homo sapiens GN=DYSF PE=1 SV=1

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QGSELHVVVKDHETMGRNRFLEAKVPLREVLATPSLSASFNAPLLDTKKQPTGASLVLQ  
VSYTPLPGAVPLFPPTPLEPSPTLPDLVVDVADTGGEEDTEDQGLTGDEAEPFLDQSGGP  
GAPTTPRKLPSRPPHPYGIKRRKSAPTSRKLLSDKPQDFQIRVQVIEGRQLPGVNIKPV  
VKVTAAGQTKRTRIHKGNSPLFNETLFFNLFDSPGELFDEPIFITVDSRSLRTDALLGE  
FRMDVGTIYREPRHAYLRKWLSSDPDDFSAGARGYLKTSCLVLPDGDEAPLERKDPSSED  
KEDIESNLLRPTGVALRGAHFCLKVFAEDLPQMDDAVMDNVKQIFGFESNKKNLVDPFV  
EVSFAGKMLCSKILEKTANQWNQNTLPAMFPSMCEKMRIRIIDWRLTHNDIVATTYL  
SMSKISAPGGEIEEEPAGAVKPSKASDLDDYLGFLPTFGPCYINLYGSPREFTGFPDPYT  
ELNTGKGEGVAYRGRLLLSLETKLVEHSEQKVEDLPADDILRVEKYLRRRKYSLFAAFYS  
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LSSYWEDISHRIETQNQLLG IADRLEAGLEQVHLALKAQCSTEDVDSLVAQLTDEL IAGC  
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ALAEPPQNSLPDIVIWMQGDKRVAHQVLFSSRRGANYCGKNCGLQTI FLKYPM  
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YPKFS DVTGKIKLPKDSFRPSAGWTWAGDWFVCPEKTLLHMDAGHLSFVEEVFENQTRL  
PGGQWIYMSDNYTDVNGEKVLPKDDIECPLGKWEDEEWSTDNLRAVDEQGWEYSITIPP  
ERKPKHWVPAEKMYTHRRRRWVRLRRRDL SQMEALKRHRQAEAE GEGWEYASLFGWKFH  
LEYRKTD AFRRRRWRRRMEPLEKTGPAAVFALEGALGGVMDDKSEDSMSVSTLSFGVNRP  
TISCIFDYGNRYHLRCYMYQARDLAAMDKDSFSDPYAIVSFLHQSQT VVVKNTLNPTWD  
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VPQNIKPALQRTAIEILAWGLRNMKSYQLANISSPSLVVECGGQTVQSCVIRNLRKNPNF  
DICTLFMEVMLPREELYCPPITVKVIDNRQFGRRPVVGQCTIRSLESFLCDPYSAESPSP  
QGGPDDVSLLSPGEDVLIDIDDKLEPLIQEEEEIDWWSKFFASIGEREKCGSYLEKDFD  
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PMPPRQFHLAAAGPQECLVRIYIVRAFGLPKDPNGKCDPYIKISIGKKSVDQDNYIP  
CTLEPVFGKMFELTCTLPLEKDLKITLYDYDLLSKDEKIGETVVDLENRLLSKFGARCGL  
PQTYCVSGPNQWRDQLRPSQLLHLFCQQHRVKAPVYRTDRVMFQDKEYSIEEIEAGRIPN  
PHLGPVEERLALHVLQQQGLVPEHVESRPLYSPLQPDIEQGKLMWVDLFPKALGRPGPP

FNITPRRARRFFLRCCIWNTRDVILDDLSTGEKMSDIYVKGWMIGFEEHKQKTDVHYRS  
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FLGSLQLDLNRMPKPAKTAKKCSLDQLDDAFHPEWVFSLEFQKTVKGWWPCVAEEGEKKI  
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RRFRWAILFIILFILLFLAIFIYAFPNYAAMKLVKPF

>sp|Q8WXU2|DYXC1\_HUMAN Dyslexia susceptibility 1 candidate gene 1 protein OS=Homo sapiens  
GN=DYXC1 PE=1 SV=2

MPLQVSDYSWQTKTAVFLSLPLKGVCRD TDVFC TENYLKVNFPFLFEAFLYAPIDDE  
SSKAKIGNDTIVFTLYKKEAMWETLSVTGVDKEMMQRIEKSILQAQERAKEATEAKAA  
AKREDQKYALSVMKIEEEEERKKIEDMKENERIKATKALEAWKEYQRKAEQKKIQREEK  
LCQKEKQIKEERKKIKYKSLTRNLASRN LAPKGRNSENIFTEKLKEDSIPAPRSVSGIKI  
NFTPRVFPTALRESQVAEEEEWLHKQAEARRAMNTDIAELCDLKEEKNPEWLKDKGNKL  
FATENYLA AINAYNLAIRLNNKMPLLYLNRAACHLKLKNLHKAIEDSSKALELLMPPVTD  
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>sp|Q8IYY4|DZ1L\_HUMAN Zinc finger protein DZIP1L OS=Homo sapiens GN=DZIP1L PE=1 SV=2

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GITFCNLDREVCSRGGPVPDALLKVLRLAQLIEYLLHCQDCL SASVAQLEARLQTSLG  
QQQRGQQLGRQADELKG VREESRRRRKMISTLQQLMQTGTHSYHTCHLCDKTFMNATF  
LRGHIQRRHAGVAEGGKQKKQEQPV EEVLEELRAKLKWTQGELEAQREAERQRQLQEAEL  
IHQREIEAKKEFDKWEQEWTKLYGEIDKLKFLWDEFKNVAKQNSTLEEKLRALQSHSV  
MESKLGSLRDEESEEWLRQARELQALREKTEIQKTEWKRKVKELHEEHMAEKKELQEENQ  
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DTEEDSPEEEMEDSQDEQHKVLAALRRNPTLLKHFRP ILEDTLEEKLESMGIRKDAKGIS  
IQTLRHLESLLRVQREQKARKFSEFLSLRGKLVKEVTSRAKERQENGAVVSQPDGQPSVK  
SQQSTLVTREAPKTRTLQVALPSTPAEPPPTRQSHGSHGSSLTQVSAPAPRPLHGPS  
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>sp|Q6ZTU2|E400N\_HUMAN EP400 N-terminal-like protein OS=Homo sapiens GN=EP400NL PE=2 SV=2

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FQDGSGLTQIAQGAQVQLQHPGTPITVRERRPSQPHTQSGGTIHLGPQSPAAAGGAGLQ  
PLASPSHITTANLPQISSIIQGQLVQQQVLQGPPLPRPLGFERTPGVLLPGAGGAAGF  
GMTSPPPPTSPSR TAVPPGLSSLPLTSVGNTGMKKVPKLEEIPASPEMAQMRKQCLDY  
HHQEMQALKEVFKEYLIELFFLQHFQGNMMDFLAFKERLYGPLQAYLRQNDLDIEEEEE  
HFEVINDEVKVVARKHGQPGTPVAIATQLPPRTSAAFPAQQQPLQQIHMGTVPVGDVNSI  
KMEASKRQ

>sp|Q9HCM4|E41L5\_HUMAN Band 4.1-like protein 5 OS=Homo sapiens GN=EPB41L5 PE=1 SV=3

MLSFFRRTLGRSMRKHAERLREAAATHIPAAGDSKSIITCRVSLLDGTDVSVLDLP  
KKAKGQELFDQIMYHLDLIESDYFGLRFMDSAQVAHWLDGTKSIKKQVKIGSPYCLHLRV  
KFYSSEPNLREELTRYL FVLQLKQDILSGKLD CPFD TAVQLAAYNLQAE LGDYDLAEHS  
PELVSEFRFVPIQTEEMELAI FEKWKEYRGQTPAQAE TNYLNKAKWLEMYGVD MHVVKAR  
DGNDYSLGLTPTGVLVFEGDTKIGLFFWPKITRLDFKKNKLT LVVVEDDDQGKEQEHTFV

FRLDHPKACKHLWKCAVEHHAFRLRGPVQKSSHRSGFIRLGSFRFRYSKTEYQTTKTNK  
ARRSTSFERRPSKRYSRRTLQMKACATKPEELSVHNNVSTQSNGSQAWGMRSALPVSPS  
ISSAPVPVEIENLPQSPGTDQHDRKCIPLNIDLLNSPDLEATIGDVGASDTMETSQAL  
NDVNVATRLPGLGEPEVEYETLKDTSEKLKQLEMENSPLLSPRSNIDVNINSQEEVVKLT  
EKCLNNVIESPGLNVMRVPPDFKSNILKAQVEAVHKVTKEDSLLSHKNANVQDAATNSAV  
LNENNVPLPKESLETMLMITPADSGSVLKEATDEL DALLASLTENLIDHTVAPQVSSTSM  
ITPRWIVPQSGAMSGLAGCEMLLTGKEGHGKDGISLISPPAPFLVDAVTSSGPILAE  
AVLKQKCLLTTEL

>sp|Q9HCS5|E41LA\_HUMAN Band 4.1-like protein 4A OS=Homo sapiens GN=EPB41L4A PE=1 SV=2

MGCFCAPVEEFYCEVLLLEDESKLTLTQQQGIKKSTKGSVLDHVFHHVNLVEIDYFGLR  
YCDRSHQTYWLDPAKTLAEHKELINTGPPYTLTYFGIKFYAEDPCKLKEETRYQFFLQVK  
QDVLQGRLLPCPVNTAAQLGAYAIQSELGDYDPYKHTAGYVSEYRFVPDQKEELEEAIERI  
HKTLMGQIPSEAEINLRTAKSLEMYGVDLHPVYGENKSEYFLGLTPVGVVVYKNKKQVG  
KYFWPRITKVHFKETQFELRVLGKDCNETSFFFEARSKTACKHLWKCSVEHHTFFRMPEN  
ESNSLSRKLKSGFSIRYKHRYSGRTALQMSRDLSIQLRPDQNVTRSRSKTYPKRIAQTQ  
PAESNSISRITANMENGENTIKIIAPSPVKSFKKAKNENSPDTQRSKSHAPWEENGPPQ  
SGLYNPSDRTKSPKFPYTRRRNPSCGSDNDSVQPVRRRKAHNSGEDSDLKQRRRSRRC  
NTSSGSESENSNREYRKKRNRIRQENDMVD SAPQWEAVLRRQKEKNQADPNRRSRHRSR  
SRSPDIQAKEELWKHIQKELVDPSGLSEEQLKEIPYTKIETQGDPIRIRHSHSPRSYRQY  
RRSQSDGERSVLSEVNSKTDLPVPLPVTSSDAQSGDATVHQRRNGSKDSLMEKPQT  
STNNLAGKHTAKTIKTIQASRLKTET

>sp|Q6P2I7|EBLN2\_HUMAN Endogenous Bornavirus-like nucleoprotein 2 OS=Homo sapiens  
GN=EBLN2 PE=2 SV=1

MGYFLKLYAYVNSHSLFVWVCDRSYKRSFRPMILNKIKELSRNQFSTMSHLRKDSQPSSP  
GDDAMDRSGLPDLQGRFELSGKNRQYPLDALEPQPSIGDIKDIKKAASMLDPAHKSHFH  
PVTPSLVFLCFIFDGLHQALLSVGVSKRSNTVVGNEENERGTPYASRFKDPNFI ALEKS  
SVLRHCCDLLIGIAAGSSDKICTSSLQVQRRFKAMMASIGRLSHGESADLLISCNAESAI  
GWISSRPWVGELMFTLLFGDFESPLHKLKSS

>sp|P30084|ECHM\_HUMAN Enoyl-CoA hydratase, mitochondrial OS=Homo sapiens GN=ECHS1 PE=1  
SV=4

MAALRVLLSCVRGRLRPPVRCPAWRPFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNA  
LCDGLIDELNQALKTFEEDPAVGAI VLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHW  
DHLTQVKKPVIAAVNGYAFGGGCELAMMCDIIYAGEKAQFAQPEILIGTIPGAGGTQRLT  
RAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQCAEKIASNSKIVVAMA  
KESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ

>sp|Q08426|ECHP\_HUMAN Peroxisomal bifunctional enzyme OS=Homo sapiens GN=EHHADH PE=1 SV=3

MAEYTRLHNALALIRLNPPVNAISTTLLRDIKEGLQKAVIDHTIKAIVICGAEGKFSAG  
ADIRGFSAPRTFGLTLGHVVDEIQRNEKPVVAAIQGMAFGGGLELALGCHYRIAHAEAQV  
GLPEVTLGLLPARGTQLLPRLTGVPAA LDLITSGRRILADEALKLGILDKVVNSDPVEE  
AIRFAQRVSDQPLESRRLCNKPIQSLPNMDSIFSEALLKMRRQHPGCLAQEACVRAVQAA  
VQYPYEVGIKKEELFLYLLQSGQARALQYAFFAERKANKWSTPSGASWKTASARPVSSV  
GVVGLGTMGRGIVISFARARIPVIAVDSKNQLATANKMITSVLEKEASKMQSGHPWSG  
PKPRLTSSVKELGGVDLVIEAVFEEMSLKKQVFAELSAVCKPEAFLCTNTSALDVDEIAS  
STDRPHLVIGTHFFSPAHV MKLLEVIPSYSSPTTIATVMNLSKKIKKIGVVVGNCFGFV

GNRMLNPYYNQAYFLLEEGSKPEEVDQVLEEFGFKMGPFVRVSDLAGLDVGWKSRRKGQGLT  
GPTLLPGTPARKRGNRRYCPIDVLCELGRFGQKTGKGWYQYDKPLGRIHKPDPWLSKFL  
SRYRKTHHIEPTISQDEILERCLYSLINEAFRILGEGIAASPEHIDVVYLHGYPWRHK  
GGPMFYASTVGLPTVLEKLQKYRQNPDIQLEPSDYLKKLASQGNPPLKEWQSLAGSPS  
SKL

>sp|P42126|ECI1\_HUMAN Enoyl-CoA delta isomerase 1, mitochondrial OS=Homo sapiens GN=ECI1  
PE=1 SV=1

MALVASVRVPARVLLRAGARLPGAALGRTERAAGGGDGARRFGSQRVLVEPDAGAGVAVM  
KFKNPPVNSLSLEFLTELVISLEKLENDKSFRGVILTSRPGVFSAGLDLTEMCGRSPAH  
YAGYWKAVQELWLRLYQSNLVLVSAINGACAGGCLVALTCDYRILADNPRYCIGLNETQ  
LGIIAPFWLKDLENTIGHRAAERALQLGLLFPPAEALQVGIVDQVVPPEEQVQSTALSAI  
AQWMAIPDHARQLTKAMMRKATASRLVTQRDADVQNFVSFISKDSIQKSLQMYLERLKEE  
KG

>sp|094769|ECM2\_HUMAN Extracellular matrix protein 2 OS=Homo sapiens GN=ECM2 PE=2 SV=1

MKIAVLFCFFLLIIFQTDGKNEEIPRKQRRKIYHRRLRKSSTSHKHRSNRQLGIQQTIV  
FTPVARLPVNFDSMEEFESFSSFPGVESYNVLPGKKGHCLVKGITMYNKAVWSPEP  
CTTCLCSDGRVLCDETMCHPQRCPTVIPEGECCPVCSATVSYSLLSGIALNDRNEFSGD  
SSEQREPTNLLHKQLPPPQVGMDRIVRKEALQSEDEEVKEEDTEQKRETPESRNQGGLY  
SEGDSRGGDRKQRPGEERRLAHQQRQGREEEEEEEEEEGEGEEDDEEDPVRGDMFRM  
PSRSPLPAPPRGTLRLPSGCSLSYRTISCINAMLTQIPPLTAPQITSLELTGNSIASIPD  
EAFNGLPNLERLDLSKNITSSGIGPKAFKLLKKLMRLNMDGNNLIQIPSQLPSTLEELK  
VNENNLQAIDESLSDLNQLVTLELEGNLSEANVNPLAFKPLKSLAYLRLGKNKFRIIP  
QGLPGSIEELYLENNQIEEITEICFNHTRKINVIVLRYNKIEENRIAPLAWINQENLESI  
DLSYNKLYHVPSYLPKSLHLVLLGNQIERIPGYVFGHMEPGLEYLYLSFNKLADDGMDR  
VSFYGAYHSLRELFDDHNDLKSIPPGIQEMKALHFLRLNNKIRNLPPEEICNAEEDDDSD  
NLEHLHLENNYIKIREIPSYTFSCIRSYSSIVLKPQNIK

>sp|Q6NXP0|EFC12\_HUMAN EF-hand calcium-binding domain-containing protein 12 OS=Homo  
sapiens GN=EFCAB12 PE=1 SV=1

MDDDYEAHYSLFLSLLGLCPSKTPINENAPVFDPEPVIAHCFKQFQQKDFRLPQTRRRRII  
MVPRKEDQTPNPASQPQAPPKIPSFVLEARDIQEQPEDRKTWLSQRSKLRQELESFG  
DVKRWLENKPSITPSEAKVLHMIHEEQSAQPNASQATTRTTRKKAPRLSRLSRQMVPQLQ  
LPEPPALSVMSYLHSRKIKILEIFHKVGQGENQRITREEFIAAVKAVGVPLKNQEVEDI  
VIYLSLKGKHTITMDILANTYKQWSMAQQRSSLATAREHYILAKHRDSLKGPLKKQEVD  
SAPQLPKVDLLTPVAVDTQMETRPMTLEEMEEVGKRYRERQRQHKLTIPSIQYTEQCHLV  
RCGNRHFDEHCLPSTIHGDMRELIDSARRHNFLVYLQCWKLCKSYGLPLTEDILMKALLY  
PGDKIIFQMDKVCPIRQPGGYSDWKVFSPLALLRSQGPQSKRTDKKTPKSKKMRFK  
EFEFTRKLKVKRSSGLQQTHPNFSPWPHLLDKLQLYLPVATDRSLALFSCVQHQPQHVY  
PATYHPDHWPLRNKNYMTAHYDAAKVYYIN

>sp|Q7Z2Z2|EFL1\_HUMAN Elongation factor-like GTPase 1 OS=Homo sapiens GN=EFL1 PE=1 SV=2

MVLNSLDKMIQLQKNTANIRNICVLAHVDHGKTTLADCLISSNGIISRLAGKLRYMDSR  
EDEQIRGITMKSSAISLHYATGNEEYLINLIDSPGHVDFSSEVSTAVRICDGCIIVDDAV  
EGVCPQTQAVLRQAWLENIRPVLVINKIDRLIVELKFTPQEAYSHLKNILEQINALTGTL  
FTSKVLEERAERETESQVNPNSEQGEQVYDWSTGLETDSDSHLYFSPEQGNVVFSTSAIDG  
WGFGIEHFARIYSQKIGIKKEVLMKTLWGDYYINMKAKKIMKGDQAKGKKPLFVQLILEN



IWSLYDAVLKKDKDKIDKIVTSLGLKIGAREARHSDPKVQINAICSQWLPISHAVLAMVC  
QKLPSPLDITAERVERLMCTGSQTFDSFPPETQALKA AFMKCGSEDTAPV IIFVSKMFAV  
DAKALPQNKRPLTQEEIAQRERARQRHAEKLA A AQGQAPLEPTQDGS AIETCPKGEEP  
RGDEQQVESMTPKPVLQEENNESFIAFARVFSGVARRGKKIFVLGPKYSPLEFLRRVPL  
GFSAPPDGLPQVPHMAYCALENYLLMGRELEYLEEVPNGVLGIGGLQDFVLKSATLCS  
LPSCPPFIPLNFEATPIVRVAVEPKHPSEMPQLVKGMKLLNQADPCVQILIQETGEHVLV  
TAGEVHLQRCLDDLKERFAKIHISVSEPIIPFRETITKPPKVDVNNEEIGKQKQVAVIHQ  
MKEDQSKIPEGIQVSDGLITITTPNKLATLSVRAMPLPEEVTQILEENSDLIRSMEQLT  
SSLNEGENTHMIHQKTQEKIWEFGKLEQHLTGRRWRNIVDQIWSFGPRKCGPNILVNKS  
EDFQNSVWTGPADKASKEASRYRDLGNSIVSGFQLATLSGPMCEEPLMGVCFVLEKWDLS  
KFEEQGASDLAKEGQENETCSGGNENQELQDGCSEAFEKRTSQKGESPLTDCYGPFSGQ  
LIATMKEACRYALQVKPQRLMAAMYTCDIMATGDVLGRVYAVLSKREGRVLQEEMKEGTD  
MFI I KAVLPVAESFGFADEIRKRTSGLASPLVFSHWEIIPSDPFWVPTTEEEYLHFGEK  
ADSENQARKYMNVA VRKRKGLYVEEKIVEHAEKQRTLSKNK

>sp|P52803|EFNA5\_HUMAN Ephrin-A5 OS=Homo sapiens GN=EFNA5 PE=1 SV=1

MLHVEMTLTVFLVLWMCVFSQDPGSKAVADRYAVYWNSSNPRFQRGDYHIDVCINDYLDV  
FCPHYEDSVPEDKTERYVLYMVNFDGYSACDHTSKGFKRWCNRPHSPNGPLKFSEKFQL  
FTPFSLGFEFRPGREYFYISSAIPDNGRRSCLKLKVFRPTNSCMKTIGVHDRVFDVNDK  
VENSLEPADDTVHESAEPSRGENAAQTPRIPSRLLAILLFLLAMLLTL

>sp|Q14232|EI2BA\_HUMAN Translation initiation factor eIF-2B subunit alpha OS=Homo sapiens  
GN=EIF2B1 PE=1 SV=1

MDDKELIEYFKSQMKEDPDMAVA A AIRTLLEFLKRDKGETIQGLRANLTS AIETLCGVD  
SSVAVSSGGELFLRFISLASLEYS DSKCKIMIERGELFLRRISLSRNKIADLCHTFIK  
DGATILTHAYSRVLRVLEA A VAAKKRFSVYVTESQPDLSGKKMAKALCHLNVPVTVVLD  
A A VGYIMEKADLIVGAEGVVENGGIINKIGTNQMAVCAKAQNKPFYVVAESFKFVRLFP  
LNQQDVPDKFKYKADTLKVAQTGGDLKEHPWVDYTAPSLITLLFTDLGVLTSAVSDDEL  
IKLYL

>sp|P49770|EI2BB\_HUMAN Translation initiation factor eIF-2B subunit beta OS=Homo sapiens  
GN=EIF2B2 PE=1 SV=3

MPGSAAKGSEL SERIESFVETLKRGGGPRSSEEMARETLGLLRQIITDHRWSNAGELMEL  
IRREGRRMTAAQPSETTVGNMVRRLKI IREEYGR LHGRSDESDQQESLHKLLTSGGLNE  
DFSFHAYQLQSN I IEAINELLVEEGTMENIAAQALEHIHSNEVIMTIGFSRTVEAFLKE  
AARKRKFHVIVAECAPFCQGHMAVNLSKAGIETTVMTDAAIFAVMSRVNKVIIGTKTIL  
ANGALRAVTGHTLALAAKHHSTPLIVCAPMFKLSPQFPNEEDSFHKFVAPEEVLPTFEG  
DILEKVSVHCPVFDYVPELITLFI SNIGGNAPSYIYRLMSELYHPDDHVL

>sp|Q9UI10|EI2BD\_HUMAN Translation initiation factor eIF-2B subunit delta OS=Homo sapiens  
GN=EIF2B4 PE=1 SV=2

MAAVAVAVREDSGSGMAELPPGPGAVGREMTKEEKLQLRKEKKQKKKRKEEKGAEPET  
GSAVSAAQCQVGPTRELPESGIQLGTPREKVPAGRSKAELRAERRAKQE AERALKQARKG  
EQGGPPPKASPSTAGETPSGVKRLPEYPQVDDLLLRRLVKKPERQVPTRKDYGSKVSLF  
SHLPQYSRQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVSGSNARCIALLRALQQVIQDY  
TTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNAIKFLNKEITSVGSSKREEEAKSEL  
RAAIDRYVQEKIVLAAQAISRFA YQKISNGDVILVYGCSLVSRLQEAWTEGRRFRVVV  
VDSRPWLEGRHTLRSLVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSVMSRVGT

AQLALVARAHNPVLVCCETYKFCERVQTDAFVSNELDDPDDLQCKRGEHVALANWQNHA  
SLRLLNLVYDVTPELVDLVITELGMIPCSSVPVVLRVKSSDQ

>sp|Q13144|EI2BE\_HUMAN Translation initiation factor eIF-2B subunit epsilon OS=Homo sapiens GN=EIF2B5 PE=1 SV=3

MAAPVVAPPGVVSRANKRSGAGPGSGGGGARGAEEEEPPPLQAVLVADSFDRRFFPIS  
KDQPRVLLPLANVALIDYTLEFLTATGVQETFVFCCWAAQIKEHLLKSKWCRPTSLNVV  
RIITSELYRSLGDLRDVDAKALVRSDFLVYGDVISNINITRALEEHLRRLKLEKNVSV  
MTMIFKESSPSHPTRCHEDNVVAVDSTTNVLFHFQKTQGLRRFAFPLSLFQGSSDGVEV  
RYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARV  
SNLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRGPEVSLGHGSILEENV  
LLGSGTVIGSNCFITNSVIGPGCHIGDNVLDQTYLWQGVRAAGAAQIHQSLLCDNAEVK  
ERVTLKPRSVLTSQVVVGNITLPEGSVISLHPPDAEEDEDDGEFSDDSGADQEKDKVKM  
KGYNPAEVGAAGKGYLWKAAGNMEEEEELQQNLWGLKINMEESESESESEQSMDSEEPDS  
RGGSPQMDDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVV  
LEFPLQQMDSPLDSSRYCALLPLLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALG  
ISMAKVLMAFYQLEILAEETILSWFSQRDITDKGQQLRKNQQLQRFIQWLKEAEEESSED  
D

>sp|P60228|EIF3E\_HUMAN Eukaryotic translation initiation factor 3 subunit E OS=Homo sapiens GN=EIF3E PE=1 SV=1

MAEYDLTTRIAHFLDRHLVFPILLEFLSVKEIYNEKELLQGKLDLLSDTNMVDFAVDVYKN  
LYSDDIPHALREKRTTVVAQLKQLQAETEPVKMFEDPETTRQMQSTRDGRMLFDYLADK  
HGFRQEYLDTLRYAKFYQECGNYSGAAEYLYFFRVLPATDRNALSSLWGKLASEILMQ  
NWDAAEDLTRKETIDNNSVSSPLQSLQQRWLHWSLFFVFNHPKGRDNIIDFLYQP  
QYLNAIQTMCPHILRYLTAVITNKDVRKRRQVLKDLVKVIQQESYTYKDPITEFVECLY  
VNFDFDGAQKKLRECESVLVNDFFLVACLEDFIENARLFIFETFCRIHQCSINMLADKL  
NMTPEEAERWIVNLIRNARLDAKIDSKLGHVVMGNNAVSPYQQVIEKTKSLSFRSQMLAM  
NIEKKLNQNSRSEAPNWATQDSGFY

>sp|Q00013|EM55\_HUMAN 55 kDa erythrocyte membrane protein OS=Homo sapiens GN=MPP1 PE=1 SV=2

MTLKASEGESGGSMHTALSDLYLEHLLQKRSRPEAVSHPLNTVTEDMYTNGSPAPGSPAQ  
VKGQEVKRVRLIQFEKVTEPMGITLKLNEKQSCTVARILHGGMIHRQGS�HVGEILEI  
NGTNTVNHSDQLQKAMKETKGMISLKVIPNQQSRLPALQMFMAQFDYDPKKNLIPCK  
EAGLK FATGDI IQI INKDDSNWWQGRVEGSSKESAGLIPSPELQEWVASMAQSAPSEAP  
SCSPFGKKKKYKDKYLAKHSSIFDQLDVVS YE EVVRLPAFKRKT LV LIGASGVGRSHIKN  
ALLSQNPEKFVYPVPYTTPPRKSEEDGKEYHFISTEEMTRNISANEFLEFGSYQGNMFG  
TKFETVHQIHKQNKIAILDIEPQTLKIVRTAELSPFIVFIAPTDQGTQTEALQQLQKDSE  
AIRSQYAHYFDLSLVNNGVDETLKKLQEAFDQACSSPQWVPVSWVY

>sp|000423|EMAL1\_HUMAN Echinoderm microtubule-associated protein-like 1 OS=Homo sapiens GN=EML1 PE=1 SV=3

MEDGFSYSSSLYDTSLLQFCNDDSASAASSMEVTDRIASLEQRVQMQUEDDIQLLKSALA  
DVVRLNITEEQAVLNKRGPTKARPLMQTLPLRTTVNNGTVLPKKPTGSLPSPSGVRKE  
TAVPATKSNIKRTSSSERVSPGGRRSNGDSRGNRNRTGSTSSSSSGKKNSESKPEPVF  
SAEEGYVKMFLRGRPVMTMYPKDQVDSYSLEAKVELPTKRLKLEWVYGYRGRDCRNNLYL  
LPTGETVYFIASVVVLYNVEEQLRHYAGHNDVKCLAVHPDRITITATGQVAGTSKDQKQ

LPPHVRIWDSVTLNLTHVIGIGFFDRAVTCIAFSKSNNGGTNLCAVDDSDNHVLSVWDWQK  
EEKLADV KCSNEAVFAADFHPD TNIIVTCGKSHLYFWTLEGSSLNKKQGLFEKQEKPKF  
VLCVTFSENGD TITGDSSGNILVWGKGTNRISYAVQGAHEGGIFALCMLRDGTLVSGGGK  
DRKLISWSGNYQKL RKEIPEQFGPIRTVAEGKGDVILIGTTRNFVLQGTLSGDFTPITQ  
GHTDELWGLAIHASKSQFLTCHGDKHATLWDAVGHRPVWDKIIEDPAQSSGFHPSGSVVA  
VGTLTGRWFVFD TETKDLVTVHTDGNEQLSVMRYSPDGNFLAIGSHDNCIYIYGVSDNGR  
KYTRVGKCSGHSSFI THLDWSVNSQFLVSNSGDYEILYWVPSACKQVSVETTRDIEWAT  
YTCTLG FHFVFGVWPEGSDGTDINAVCRAHEKKLLSTGDDFGKVHLFSYPCSQFRAPSHIY  
GGHSSHVTNVDFLCEDSHLISTGGKDTSIMQWRVI

>sp|095834|EMAL2\_HUMAN Echinoderm microtubule-associated protein-like 2 OS=Homo sapiens  
GN=EML2 PE=1 SV=1

MSSFGAGKTKEVIFSVEDGSVKMFLRGRPVPMIPDELAPTYSLDTRSELPSCRLKLEWV  
YGYRGRDCRANLYLLPTGEIVYFVASVAVLYSVEEQQRHYLGHNDDIKCLAIHPDMVTI  
ATGQVAGTTKEGKPLPPHVRIWDSVSLSTLHVLGLGVFDRAVCCVGFSSKSNNGNLLCAVD  
ESNDHMLSVDWAKETKVVDVKCSNEAVLVATFHPTDPTVLITCGKSHIYFWTLEGGSLS  
KRQGLFEKHEKPKYVLCVTFLEGGDVVTGDSGGNLYVWGKGNRITQAVLGAHDGGVFGL  
CALRDGTLVSGGGRRRVVLWGS DYSKLQEVEVPEDFGPVRTVAEGHGD TLYVGTTRNSI  
LQGSVHTGFSLLVQGHVEELWGLATHPSRAQFVTCGQDKLVHLWSSDSHQPLWSRIIEDP  
ARSAGFHPSGSVLAVGTVTGRWLLD TETHDLVAIHTDGNEQISVVSFSPDGAYLAVGSH  
DNLVYYVTVDQGGRKVSRLGKCSGHSSFI THLDWAQDSSCFVTNSGDYEILYWD PATCKQ  
ITSADAVRNMEWATATCVLGFGVFGIWSEGADGTDINAVARSHDGKLLASADDFGKVHLF  
SYPCQPRALSHKYGGHSSHVTNVAFLWDDSMALTTGGKDTSVLQWRVV

>sp|Q9HC35|EMAL4\_HUMAN Echinoderm microtubule-associated protein-like 4 OS=Homo sapiens  
GN=EML4 PE=1 SV=3

MDGFAGSLDDSI SAASTSDVQDRLSALESRVQQQEDEITVLKAALADVLRLAISEDHVA  
SVKKS VSSKQGPSRAVIPMSCITNGSGANRKPSHTSAVSIAGKETLSSAAKSGTEKKKE  
KPQQGREKKEESHSDQSPQIRASPSQPSSQLQIHRQTPE SKNATPTKSIKRPSPAEK  
SHNSWENSDDSRNLSKIPSTPKLIPKVTKTADKHKDVIINQEGEYIKFMGRGPITMFI  
PSDVDNYDDIRTEL PPEKLKLEWAYGYRGKDCRANVYLLPTGKIVYFIASVVVLFNYEER  
TQRHYLGHTDCVKCLAIHPDKIRIATGQIAGVDKDG RPLQPHVRVWDSVTLSTLQIIGLG  
TFERGVGCLDFSKADSGVHLCIIDDSNEHMLTVWDWQKAKAGAEIKTNEVVLA VEFHPT  
DANTIITCGKSHIFFWTWSGNSLTRKQGIFGKYEKPKFVQCLAF LGNGDVLTDGSGGVML  
IWSKTTVEPTPGKGP KGVYQISKQIKAHDGSVFTLCQMRNGMLLTGGGKDRKIILWDHDL  
NPEREIEVPDQYGTIRAVAEGKADQFLVGTSRNFILRGTFNDGFQIEVQGHTDELWGLAT  
HPFKDLLLTCAQDRQVCLWNSMEHRLWTRLVDEPGHCADFHPSGTVVAIGTHSGRWFVL  
DAETRDLVSIHTDGNEQLSVMRYSIDGTFLAVGSHDNFIYLYV VSENGRKY SRYGRCTGH  
SSYITHLDWSPDNKYIMSNSGDYEILYWDIPNGCKLIRNRSDCKDIDWTTYTCVLGFQVF  
GVWPEGSDGTDINALVRSHNRKVI AVADDFCKVHLFQYPCSKAKAPSHKYSAHSSHVTNV  
SFTHNDSHLISTGGKDMSIIQWKLVEKLSLPQNETVADTTLTKAPV SSTESVIQSNTPTP  
PPSQPLNETAEESRISSSPTLLENSLEQTVEPSEDHSEEESEEGSGDLGEPLYEPCNE  
ISKEQAKATLLEDQQDPSPSS

>sp|Q5T6L9|EMARD\_HUMAN Endoplasmic reticulum membrane-associated RNA degradation protein  
OS=Homo sapiens GN=ERMARD PE=1 SV=1

MEVLIGDPITTCLSPSVYDIICNLGFLRENC DINSIVTQNGEVCWKTITDCVSYTESEQ

GLDYWGSVRL LGPVCEAVHSHFSLTKGQFEIRYAPWFQWTSFPELFPEIFDAESLQSP  
AISLSLMKLTSCLERALGDVFLIGKECPFLLRDLSSEELAQVFSQSVMNVLKVFVGSP  
CGLNLRNVLWHGFASPEEIPPKYCSMMILLTAGLGQLLSYLQNTKLTLAHRSFISLTNL  
EDLIVFPDVTYEVLSVLEEVMMSAFILKIMLPYWEVALVKFKSHRFADCAILLTQLET  
GLRNVFATLNRCPKRLLTAESTALYTTFDQILAKHLNDGKINQLPLFLGEPAMEFLWDFL  
NHQEGPRIRDHLSHGEINLHEFSKETTNQLLAFSLVLLLRFVDDCLLSVFKEKSAVELLI  
SLAEGYSSRCHPVFQLKKQVLSCEESIRVWALLPFPEELTRQAVRLEDNSETNACHSLIT  
KMTDELYHHMPENRCVLKDLRLPTETWPQLLRELCSTPVPTLFCPRIVLEVLVVLRIS  
EQCRRVSSQVTVASELRHRQWVERTLRSRQRQNYLRMWSSIRLLSPVLSLILLIALELV  
NIHAVCGKNAHEYQQYLKFVKSILQYTENLVAYTSYEKNKWNETINLTHALLKMWTFSE  
KKQMLIHLAKKSTSKVLL

>sp|Q5UCC4|EMC10\_HUMAN ER membrane protein complex subunit 10 OS=Homo sapiens GN=EMC10  
PE=1 SV=1

MAAASAGATRLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSF  
EIDDSANFRKRGSLLWNQQDGTLSLSQRQLSEEERGRLRDVAALNGLYRVRIPRRPGALD  
GLEAGGYVSSFPACSLVESHLSDQLTLHVDVAGNVVGVSVVTHPGGCRGHEVEDVDLEL  
FNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQKSFFAKYWMYIIPVVLFLMMS  
GAPDTGGQGGGGGGGGGGSGR

>sp|Q9P0I2|EMC3\_HUMAN ER membrane protein complex subunit 3 OS=Homo sapiens GN=EMC3 PE=1  
SV=3

MAGPELLLDSNIRLVVLPVIVITFFVGMIRHYVSILLQSDKKLTQEQVSDSQVLIRSRV  
LRENGKIYPKQSFLTRKYFNNPEDGFFKTKRKVVPPSPMTDPTMLTDMMKGNVTNVLP  
MILIGWINMTFSGFVTTKVPFPLTLRFKPLMQQGIELLTLDASWSSASWYFLNVFGLR  
SIYSLILGQDNAADQSRMMQEQTGAAMAMPADTNKAFKTEWEALELTDHQWALDDVEEE  
LMAKDLHFEGMFKKELQTSIF

>sp|Q9NPA0|EMC7\_HUMAN ER membrane protein complex subunit 7 OS=Homo sapiens GN=EMC7 PE=1  
SV=1

MAAALWGFFPVLLLLLLSGDVQSSEVPGAAAEAGSGSGVGIGDRFKIEGRAVVPGVKPD  
WISAARVLVDGEEHVGLKTDGSFVVDIPSGSYVVEVSPAYRFDPRVDITSGKMRA  
RYVNYIKTSEVRLPYPLQMKSSGPPSYFIKRESWGWTDFLMNPMVMMMLPLLIFVLLP  
KVVNTSDPDMRREMEQSMNMLNSNHELDPVSEFMTRLFSSKSSGSSSGSKTGKSGAGK  
RR

>sp|P50402|EMD\_HUMAN Emerin OS=Homo sapiens GN=EMD PE=1 SV=1  
MDNYADLSDTELTLRLRYNIPHGPPVVGSTRRLYEKKIFEYETQRRRLSPPSSAASSYS  
FSDLNSTRGDADMYDLPKKEDALLYQSKGYNDYEEESYFTTRTYGEPESAGPSRAVRQS  
VTSFPDADAFHHQVHDDLLSSSEEECKDRERPMYGRDSAYQSITHYRPVSASRSSLDLS  
YYPTSSTSFMSSSSSSSSWLTRRAIRPENRAPGAGLGQDRQVPLWGQLLLFLVFIVLF  
FIYHFMQAEENPF

>sp|Q96A84|EMID1\_HUMAN EMI domain-containing protein 1 OS=Homo sapiens GN=EMID1 PE=2 SV=1

MGGPRAWALLCLGLLLPGGGAWSIGAAPFSGRRNWCYSVVTRTISCHVQNGTYLQRVLQ  
NCPWPMSCPGSSYRTVVRPTYKVYKIVTAREWRCCPGHSGVSCEEASSASLEPMWSGST  
MRRMALRPTAFSGCLNCSKVSELTERLKVLEAKMTMLTVIEQVPVPTPATPEDPAPLWGP  
PPAQSGPDGGLQDQVGAWGLPGTGPKG DAGSRGPMGMRGPPGPGPPGSPGRAGAVGT  
PGERGPPGPPGPPGPPGPPAPVGPPHARISQHGDPLLSNTFTETNNHWPQGPTGPPGPPG

PMGPPGPPGPTGVPGSPGHIGPPGPTGPKGISGHPGEKGERGLRGEPGPQGSAGQRGEPG  
PKGDPGEKSHWGEGLHLQREALKILAERVLILETMIGLYEPELGSGAGPAGTGTSSLRG  
KRGGHATNYRIVAPRSRDERG

>sp|Q9BXX0|EMIL2\_HUMAN EMILIN-2 OS=Homo sapiens GN=EMILIN2 PE=1 SV=3

MWQPRRPWPRVPWRWALALLLVGAGLCHAGPQPGYPARPSARNKNWCAYIVKNVSCSV  
LEGSEFIIQAQYNCAWNQMPCPSALVYRVNFRPRYVTRYKTVTQLEWRCCPGFRGGDCQE  
GPKDPVKTLRPTPARPRNSLKATDNPSQFSEPRKTLSTGTAAQPSWGVDPKEGPQELQ  
EKKIQVLEEKVLRRLTRTVLDLQSSLAGVSENKHAHQDDASRTRAPGLSSQHPKPDITVS  
GDTETGQSPGVFNTKESGMKDIKSELAEVKDTLKNKSDKLEELDGVKGYEGQLRQLQEA  
AQGPTVTMTTNELYQAYVDSKIDALREELMEGMDRKLADLKNSCEYKLTGLQQQCDDYGS  
SYLGVIELIGEKETSLRKEINNLRARLQEPSAQANCCSEKNGDIGQIKTLDQKIERVA  
EATRLNLRDNEFDRLIVPEPDVDFDAKWELDARINVTENAEHCYFIEETLRGAIN  
GEVGLDKQLVDQKIQSLEDRLGSLVLLQMTNNTGAELSPPGAAALPGVSGSGDERVMMELN  
HLKDKVQVVEDICLLNIQGGKPHMEGALPNREDRAVRDSLHLLKSLNDTMHRKFQETEQT  
IQKLQQDFSFLYSQLNHTENDVTHLQKEMSNCRAGENAGMGRFTKVGEQERTVDTLPSPQ  
HPVAHCCSQLEERWQRLQSQVISELDACECTQGVQREVSMVEGRVSHMEKTCSKLDSIS  
GNLQRIKEGLNKHVSSLWNCVRQMNGTLRSHSRDISGLKNSVQQFYSHVFQISTDLQDLV  
KFQPSAKAPSPPPPAEAPKEPLQPEPAPPRPSGPATAEDPGRRPVLPQRPPEERPPQPPG  
STGVIAETGQAGPPAGAGVSGRGLPRGVDGQTGSGTVPGAEGFAGAPGYPKSPPVASPGA  
PVPSLVFSFAGLTQKPFPSDGGVVLFNKVLVNDGDVYNPSTGVFTAPYDGRYLITATLTP  
ERDAYVEAVLSVSNASVAQLHTAGYRREFLEYHRPPGALHTCGGPGAFHLIVHLKAGDAV  
NVVVTGGKLAHTDFDEMYSFSGVFLYPFLSHL

>sp|P54849|EMP1\_HUMAN Epithelial membrane protein 1 OS=Homo sapiens GN=EMP1 PE=1 SV=3

MLVLLAGIFVVIATVIMLFVSTIANVWLVSNTVDASVGLWKNCTNISCSDSLSEYASEDA  
LKTQVAFMILSIIFCVIALLVFVQLFTMEKGNRFFLSGATTLVCWLCILVGVSIYTSHY  
ANRDGTQYHHGYSYILGWICFCFSFIIGVLYLVLRKK

>sp|Q04743|EMX2\_HUMAN Homeobox protein EMX2 OS=Homo sapiens GN=EMX2 PE=1 SV=2

MFQPAPKRCFTIESLVAKDSPLPASRSEDPIRPAALSYANSSPINPFLNGFHSAAAAAAG  
RGVYSNPDLVFAEAVSHPPNPAVPVHPVPPPHALAAHPLPSSHSPHPLFASQQRDPSTFY  
PWLIIHRYRYLGHRFQGNDSPEFLLHNALARKPKRIRTAFAFSPQLLRLEHAFKKNHYVV  
GAERKQLAHSLSLTETQVKVWFQNRRTKFKRQKLEEGSDSQKKKGTHHINRWRIATKQ  
ASPEEIDVTSDD

>sp|Q8N8S7|ENAH\_HUMAN Protein enabled homolog OS=Homo sapiens GN=ENAH PE=1 SV=2

MSEQSICQARAAMVYDDANKKWVPAGGSTGFSRVHIYHHTGNNTFRVVGRIQDHQVVI  
NCAIPKGLKYNQATQTFHQWRDARQVYGLNFGSKEDANVFASAMMHALEVLNSQETGPTL  
PRQNSQLPAQVQNGPSQEELEIQRRLQEQQRQKELERERLERERMERERLERERLERER  
LERERLEQEQLERERQERERQERLERQERLERQERLERQERLDRERQERQERERLERER  
ERQERERQEQLEREQLEWERERRISSAAAPASVETPLNSVLGDSSASEPGLQAASQPAET  
PSQQGIVLGPLAPPPPPPLPPGPAQASVALPPPPGPPPPPLPSTGPPPPPPPPPLPNQV  
PPPPPPPPAPPLPASGFFLASMSEDNRPLTGLAAAIAAKLRKVSREMDTSFSPSGGNAIG  
VNSASSKTDGTGRNGPLPLGGSGLMEEMSALLARRRRRIAEGKSTIETEKKEDKGEDSEPV  
TSKASSTSTPEPTRKPWERTNTMNGSKSPVISRRDSPKNQIVFDNRSYDSLHRPKSTPL  
SQPSANGVQTEGLDYDLKQDILDEMRKELTKLKEELIDAIRQELSKSNTA

>sp|Q9NZJ0|DTL\_HUMAN Denticleless protein homolog OS=Homo sapiens GN=DTL PE=1 SV=3

MLFNSVLRQPQLGVLNRNGWSSQYPLQSLTGYQCSGNDEHTSYGETGVPVPPFGCTFSSA  
PNMEHVLAVANEEGFVRLYNTESSQFRKKCFKEWMAHWNVFDLAWVPGELKLVTAAAGDQ  
TAKFWDVKAGELIGTCKGHQCSLKSVAFSKFEKAVFCTGGRDGNIMVWDTRCNKKDGFYR  
QVNQISGAHNTSDKQTPSKPKKKQNSKGLAPSVDFQQSVTVVLFQDENTLVSAGAVDGI  
KVWDLRKNYTAYRQEP IASKSFLYPGSSSTRKLGYSLLILDSTGSTLFANCTDDNIYMFNM  
TGLKTSFVAIFNGHQNSTFYVKSSSPDDQFLVSGSSDEAAIWKVSTPWQPPTVLLGHS  
QEVTSCWCPSDFTKIATCSDDNTLKIWRLNRGLEEKPGGDKLSTVGWASQKKKESRPGL  
VTVTSSQSTPAKAPRAKCNPSNSSPSSAACAPSCAGDLPLPSNTPTFSIKTSPAKARSP  
NRRGSVSSVSPKPPSSFKMSIRNWVTRTPSSSPPTTPPASETKIMSPRKALIPVSQKSSQ  
AEACSESRNRVKRRLDSSCLESVKQKCVKSCNCVTELDGQVENLHLDLCCLAGNQEDLSK  
DSLGPTKSSKIEGAGTISIEPPSPISPYASESCGTLPLPLRPCGEGSEMVGKENS SPENK  
NWLLAMAAKRKAENSPRSPSSQTPNSRRQSGKKLPSPVTITPSSMRKICTYFHRKSQED  
FCGPEHSTEL

>sp|POCJ87|DU4L4\_HUMAN Double homeobox protein 4-like protein 4 OS=Homo sapiens GN=DUX4L4  
PE=3 SV=1

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPE  
PRVQIWFQNERSRQLRQHRRESRPWPGRGPPEGRRKRTAVTGSQTALLLRAFEKDRFP  
IAAREELARETGLPESRIQIWFQNRARHPGQGGRAPAQAGGLCSAAPGGGHPAPSWVAF  
AHTGAWGTGLPAPHVPCAPGALPQGAFVSQAARAAPALQPSQAAPAEVVSQPAPARGDFA  
YAAPAPPDGALSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGAQAGPQGGVLA  
PPTSQGSPPWWGWRGPQVAGAAWEPQAGEAPPPQAPPDASARQGMQGIAPSQALQEP  
APWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEAAASLEAPLSEEEYRALLE  
EL

>sp|043812|DUX1\_HUMAN Double homeobox protein 1 OS=Homo sapiens GN=DUX1 PE=1 SV=1

MALLTALDDTLPEEAQGPGRMILLSTPSQSDALRACFERNLYPGIATKEELAQGIDIP  
PRVQIWFQNERSCQLRQHRRQSRPWPGRDPQKGRRKRTAITGSQTALLLRAFEKDRFP  
IAAREELARETGLPESRIQIWFQNRARHRGQSGRAPTQASIRCNAAPIG

>sp|000148|DX39A\_HUMAN ATP-dependent RNA helicase DDX39A OS=Homo sapiens GN=DDX39A PE=1  
SV=2

MAEQDVENDLLDYDEEEEPQAPQESTPAPPKKDIKGSYVSIHSSGFRDFLLKPELLRAIV  
DCGFEHPSEVQHECIPQAILGMDVLCQAKSGMGKTAVFVLATLQQIEPVNGQVTVLMCH  
TRELAQISKEYERFSKYMPSVKVSVFFGGLSIKKDEEVLKKNCPHVVGTPGRILALVR  
NRSFSLKNVKHFVLDECCKMLEQLDMRRDVQEIFRLTPHEKQCMMSATLSKDIRPVCRK  
FMQDPMEVFVDDETKLTLHGLQQYYVKLDSEKNRKLFDLLDVLEFNQV IIFVKSQRCM  
ALAQLLVEQNFP AIAIHRGMAQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIVFN  
YDMPEDSDTYLHRVARAGRFGTKGLAITFVSDENDAKIILNDVQDRFEVNV AELPEEIDIS  
TYIEQSR

>sp|Q6ZR08|DYH12\_HUMAN Dynein heavy chain 12, axonemal OS=Homo sapiens GN=DNAH12 PE=2  
SV=2

MSDANKAAIAAEKEALNLKLPPIVHLPENIGVDTPTQSKLLKYRRSKEQQKINQLVIDG  
AKRNLDRTLGKRTPLPPPDYPQMTSEMKKKGFNIIYMKQCVESPLVPIQQEWLDHML  
RLIPESLKEGKEREELESLINEVSSDFENSMKRYLVQSVLVKPPVKSL EDEGGPLPESP  
VGLDYSNPWHSSYVQARNQIFSNLHI IHPTMKMLLDLGYTTFADTVLLDFTGIRAKGPID  
CESLKTDL SIQTRNAEEKIMNTWYPKVINLFTKKEALEGVKPEKLDAFYSCVSTLMSNQL

KDLLRRTVEGFVKLFDPKDQQLPIFKIELTFDDDKMEFYPTFQDLEDNVLSLVERIAEA  
LQNVQTIPSWLSGTSTPVNLDTLPEHVLHWAVDTLKAAVHRNLEGARKHYETYVEKYNW  
LLDGTAVENIETFQTEDHTFDEYTEFIEKFLSLASEIMLLPQWIHYTMVRLDCEDLKTGL  
TNKAKAFANILLNDIASKYRKENECICSEFEAIKEHALKVPETTEEMMDLISYVEKARTV  
GIEELILRIQESKRQMSYFLDVFLFPQEDLALNATVLMWPRKINPIFDENDEL IENAKHK  
KENELMAKREKLILEIEKESRRMEEFTEFAELERMQQYVTDVRLQKRIQESEEAVQFIN  
KEEELFKWELTKYPELDKLVNIEPYQKFFNFVLKWQRSEKRWMDGGFLDLNGESMEADV  
EEFSREIFKTLKFFQTKLKKELQEKRKAARKRSLEEEKIEEPPKDNATITMCRMARHWK  
QISEIVGYDLTPDSGTTLRKVLKLNLTPLYEQFEVISAGASKEFSLEKAMNTMIGTWEDI  
AFHISLYRDTGVCILSSVDEIQAILDDQIIKTQTMRGSPFIKPFHEIKAWEDRLIRIQE  
TIDEWLKVQAQWLYLEPIFCSEDIMQQMPEEGRQFQTVDRHWRDIMKFCAKDPKVLAAATS  
LTGLLEKLQNCNELLEKIMKGLNAYLEKKRLLFFPRFFFLSNDEMILEILSETKDPLRVQPH  
LKKCFEGIAKLEFLPNLDIKAMYSSEGERVELIALISTSAARGAVEKWLIQVEDMLRSV  
HDVIAAARLAYPESARRDWVREWPQVVLCISQMFWTSETQEVISGGTEGLKYYYKELQN  
QLNEIVELVRGKLSKQTRTTLGALVTIDVHARDVMDMIKMGVSHDTDFLWLAQLRYYWE  
NENARVRIINCNVKYAYEYLGNSPRLVITPLTDRCYRTLIGAFYLNLGGAPEGPAGTGKT  
ETTKDLAKALAVQCQVFNCSDDLAMGKFFKGLASSGAWACDEFNRIELEVLSVVAQ  
QILCIQRAIQKLVVVFEGTELKLNPNCFVAITMNPYAGRSELPDNLKVLFRTVAMMV  
PNYALIAEISLYSYGFLNARPLSVKIVMTYRLCSEQLSSQFHYDYGMRVAVLVAAGNL  
KLKYPNENEDILLRSIKDVNEPKFLSHDIPLFNGITSDFPGIKLPEADYHEFLECAHE  
ACNVHNLQPVKFFLEKIIQTYEMMIVRHGFMVLGEPFAAKTKVLHVLADTLTMNEHGYG  
EEEKVYIRTVNPKSITMGQLFGQFDPVSHEWTDGIVANTFREFALSETPDRKWVFDGPI  
DTLWIESMNTVLDNKKLCLMSGEIIQMSPQMSLIFETMDLSQASPATVSRGMIYLEPS  
QLGWEPLVSSWLSNLKGPLCEPEYQALLRGLFAWLIPPSLNQRVELFQLNYLYTTIVSKI  
LKILITFRISNYFKYVPLKTQCTFIKFFLHQQACFIFSLIWSIGGSCDTDGRRVFDTFIR  
LIILGKDDENPVDPDSVGKWECPFDEKGLVYDYMELKNKGRWVHWNELIKNTNLGDKQIK  
IQDIIVPTMDTIRYTFMLDLSITYAKPLLFGPTGTGKSVYVKDKLMNHLEKDQYFPFYI  
NLSARTSANQVQNIIMARLDRRKGVFGPPMGKKCIIFIDDMNMPALEKYGAQPPIELLR  
QFFDCGHWYDLKDTSKITLVDIELIAAMGPPGGGRNPVTPRCIRHFNICSINSFSDETMV  
RIFSSIVAFYLRTHEFPPEYFVIGNQIVNGTMEIYKQSVENLLPTPTKSHYTFNLRDFS  
VIRGCLLIERDAVANKHTMIRLVHEVLRVFDRLINDDDRWFQLTKTVIKDHFKEF  
HSIFSHLRKQNAPVTEEDLRNLMFGDYMNPDLEGDDRVYIEIPNIHHFSDVVDQCLDEYN  
QTHKTRMNLVIFRYVLEHLSRICRVLKQSGGNALLVGLGGSGRQSLTRLATSMKMHIFQ  
PEISKSYGMNEWREDMKSFIAPVPTNRIVDNKSKILEKRLRYLNDHFTYNLYCNICRSLF  
EKDKLLFSFLLCANLLLARKEIEYQELMFLLTGGVSLKSAEKNPDPTWLQDKSWEEICRA  
SEFPAFRGLRQHFCEHIYEWREIYDSKEPHNAKFPAPMDKNLNLQKIIILRCLRPDKIT  
PAITNYVTDKLGKFFVEPPFDLTKSYLDSNCTIPLIFVLSPGADPMASLLKFANDKSMS  
GNKFQAIISLGQGGPIAAKMIKAAIEGTWVCLQNCHLAVSWMPMLEKICEDFTSETCNS  
SFRLWLTSYPSSKFPVTILQNGVKMTNEPPTGLRLNLLQSYLTDPVSDPEFFKGCRGKEL  
AWEKLLFGVCFHFALVQERKKFGLGWNIPYGFNESDLRISIRQLQLFINEYDTIPFEAI  
SYLTGECNYGGRVTDWDRLLLTMLADFYNLIVENPHYKFSPSGNYFAPPKGTIEDYI  
EFIKKLPTQHPEIFGLHENVDISKDLQQTTLFESLLLTQGGSKQTGASGSTDQILLEI  
TKDILNKLPSDFDIEMALRKYPVRYEESMNTVLVQEMERFNNLIITIRNTRLRDEKAIKG  
VVVMSALEALSGSLLVGKVPFIWAKRSYPSLKPLGSYITDFLARLNFLQDWYNSGKPCV

FWLSGFFFTQAFLTGAMQNYARKYTTPIDLLGYEFVIPSDDTSDTSPEDGVYIHGLYLDG  
ARWDRESGLLAEQYPKLLFDLMPITWIKPTQKSRIIKSDAYVCPLYKTSERKGTLSSTGH  
STNFVIAMLLKTDQPTRHWIKRGVALLCQLDD

>sp|Q9P225|DYH2\_HUMAN Dynein heavy chain 2, axonemal OS=Homo sapiens GN=DNAH2 PE=2 SV=3

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GPQAQSEESVEPEADV KPLFLSRAALTGLADAVWTQEHDAILHFAQDPTESILTIFIDP  
CFGLKLELGMPVQTQNLVYFIRQAPVPITWENFEATVQFGTVRGPYIPALLRLLGGVFA  
PQIFANTGWPEsirNHfASHLHKFLACLTDTRYKLEGHTVLYIPAEAMNMKPEMVIKDKE  
LVQRLETSMIHWTRQIKEMLSAQETVETGENLGPLEEIEFWNRNRCMDLSGISKQLVKKGV  
KHVESILHLAKSSYLAPFMKLAQQIQDGSRQAQSNLTFLSILKEPYQELAFMKPKDISSK  
LPKLISLIRIIWVNSPHYNTRERLTSLFRKVCDCQYHFARWEDGKQGPLPCFFGAQGPQI  
TRNLEIEDIFHKNLHTLRAVRGGILDVNKTCWHEDYNKFRAGIKDLEVMTQNLITSAFE  
LVRDVPHGVLDDTFHRLASREAIKRTYDKKAVDLYMLFNSELALVNRERNKKWPDLEPY  
VAQYSGKARWVHILRRRIDRVMTCLAGAHFLPRIGTGKESVHTYQQMVQAIDELVRKTFQ  
EWTSSLDKDCIRRLDTPLLRISQEKAGMLDVNFDSLLILFAEIDYWERLLFETPHYVVN  
VAERAEDLRILRENLLLWARDYNRIIAMLSPDEQALFKERIRLLDKKIHPGLKKLHWALK  
GASAFFITECRIHASKVQMIVNEFKASTLTIGWRAQEMSEKLLVRISGKRVYRDLEFEED  
QREHRAAVQQKLMNLHQDVVTIMTNSYEVFKNDGPEIQQQWMLYMIRLDRMMEDALRLNV  
KWSLLELSKAINGDGKTSNPFLQVLVILKNDLQGSVAQVEFSPTLQTLAGVVNDIGNHL  
FSTISVFCPLPDILTKRKLHREPIQTVVEQDEDIKKIQTQISSGMTNNASLLQNYLKTWD  
MYREIWEINKDSFIHRYQRLNPPVSSFVADIARYTEVANNVKEETVTNIQFVLLDCSHL  
KFSLVQHCNEWQNKFATLLREMAAGRLELHLYLKENAEEKISRPPQTLEELGVSLQLVDA  
LKHDLANVETQIPPIHEQFAILEKYEVPVEDSVLEMLDSLNGEWVVFQQTLDDSKQMLKK  
HKEKFKTGLIHSADDFKKAHTLLEDFFFKGHFTSNVGYMSALDQITQVRAMLAMREEE  
NSLRANLGIKFKIEQPPSKDLQNLKELDALQQIWEIARDWEENWNEWKTGRFLILQTETM  
ETTAHGLFRRLTKLAKEYKDRNWEI IETTRSKIEQFKRTMPLISDLRNPALRERHWDQVR  
DEIQREFDQESSEFTLEQIVELGMDQHVEKIGEISASATKELAEVALQNIAKTWDVTQL  
DIVPYKDKGHHRLRGTEEVFQALEDNQVALSTMKASRFVKA FEKDVDHWERCLSLILEVI  
EMILTVQRQWMYLENIFLGEDIRKQLPNESTLFDQVNSNWKAIMDRMNKDNALRSTHHP  
GLLDTLIEMNTILEDIQKSLDMYLETKRHIFPRFYFLSNDLLEILGQSRNPEAVQPHLK  
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LRDLLRNCHLALRKFLNKRDKWVKEWAGQVITASQIQWTADVTKCLLTAKERADKKILK  
VMKKNQVSILNKYSEAIRGNLT KIMRLKIVALVTIEIHARDVLEKLYKSGLMDVNSFDWL  
SQLRFYWEKDLDDCVIRQTNTQFQYNYEYLGNSGRLVITPLTDRCYMTLTALHLHRGGS  
PKGPAGTGKTETVKDLGKALGIYIVVNCSEGLDYKSMGRMYSLAQTGAWGCFDEFNRI  
NIEVLSVVAHQILCILSALAAGLTHFHFDGFEINLVWSCGIFITMNPYAGRTELPENLK  
SMFRPIAMVVPDSTLIAEILFGEGFGNCKILAKKVYTLVSLAVQQLSRQDHYDFGLRAL  
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LSSLCRAGDPNFNIVREFPLNPKALSLGELYGEYDLSTNEWTDGILSSVMRTACADEKPD  
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YSGITSLCKLYSALATPENGVPNADGENYVTM VEMTFVFSMIWSVCASVDEEGRKRIDSY  
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LVSSLVANQNPILLVGPVGTGKTSIAQSVLQSLPSSQWSVLVVNMSAQTTSNNVQSIIES  
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YIREMFLMAAMGPPGGGRTVISPRLSRFNIINMTFPTKSQIIRIFGTMINQKLQDFEEE  
VKPIGNVVTEATLDMYNTVVQRFLPTPTKMHYLFNLRDISKVFQGLRANKDFHDTKSSI  
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KVYEDLTDLTVLKTVMETALNEYNLSPSVPMQLVLFREAIEHITRIVRVIGQPRGNMLL  
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KAVTANSEKIAVEEIKQALADNAQKDLEELPALEEAMRAESLNKKDIGEIKSYGRPP  
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PTKVRDWNIIQGLPSDAFSTENGIIVTRGNRWALMIDPQAQALKWIKNMEGGQGLKIIDLQ  
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FRFYITTKLSNPHYSPETSAKTTIVNFAVKEQGLEAQLLGIVVRKERPELEEQKDSLVIN  
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DLAREAYRPAQRASILFFVLNDMGCIDPMYQFSLDAYISLFIKSHRSNKLEDRID  
YLNDYHTYAVYRYTCRTLFRHKLFSFHMCAKILETSGKLNMDYNNFFLRGGVLDREG  
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>sp|Q8TD57|DYH3\_HUMAN Dynein heavy chain 3, axonemal OS=Homo sapiens GN=DNAH3 PE=2 SV=1

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>sp|Q8WXX0|DYH7\_HUMAN Dynein heavy chain 7, axonemal OS=Homo sapiens GN=DNAH7 PE=1 SV=2

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QLNS

>sp|Q96FJ2|DYL2\_HUMAN Dynein light chain 2, cytoplasmic OS=Homo sapiens GN=DYNLL2 PE=1  
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>sp|Q9H4G0|E41L1\_HUMAN Band 4.1-like protein 1 OS=Homo sapiens GN=EPB41L1 PE=1 SV=2

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>sp|Q9Y2J2|E41L3\_HUMAN Band 4.1-like protein 3 OS=Homo sapiens GN=EPB41L3 PE=1 SV=2

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>sp|000341|EAA5\_HUMAN Excitatory amino acid transporter 5 OS=Homo sapiens GN=SLC1A7 PE=2  
SV=2

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>sp|POCF75|EBLN1\_HUMAN Endogenous Bornavirus-like nucleoprotein 1 OS=Homo sapiens  
GN=EBLN1 PE=2 SV=2

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>sp|Q15125|EBP\_HUMAN 3-beta-hydroxysteroid-Delta(8),Delta(7)-isomerase OS=Homo sapiens  
GN=EBP PE=1 SV=3

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>sp|O95905|ECD\_HUMAN Protein ecdysoneless homolog OS=Homo sapiens GN=ECD PE=1 SV=1

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DQLDQLLQEA VGKKESESVSKEEKEQNYDLTEVSESMKAFISKVSTHKGAELPREPSEAP  
ITFDADSFLNYFDKILGPRPNESDSDLDDEDFECLDSDDDLD FETHEPGEEASLKGTL D  
NLKSYMAQMDQELAHTCISKSFTRNQVEPVVSQTDDNNSDEEDSGTGESVMAPVDVDNL  
VSNILESYSSQAGLAGPASNLLQSMGVQLPDNTHRPTSKPTKN

>sp|O60344|ECE2\_HUMAN Endothelin-converting enzyme 2 OS=Homo sapiens GN=ECE2 PE=1 SV=4

MASPGAGRAPPPELPERNCGYREVEYWDQRYQGAADSAPYDWFGDFSSFRALLEPELRPED  
RILVLGCGNSALS YELFLGGFPNVTSDYSSVVVAAMQARHAHVPQLRWETMDVRKLD F P  
SASFVVLKGTLDALLAGERDPWTVSSEGVHTVDQVLSEVGFQKGT RQLLGSRTQLELV  
LAGASLLLAALLGLCLVALGVQYHRDP SHSTCLTEACIRVAGKILES LDRGVSPCEDFYQ  
FSCGGWIRRNPLPDGRSRWNTFNSLWDQNQAILKHLENTTFNS SAEQKTQRFYLSCL  
QVERIEELGAQPLRLDIEKIGGWNITGPWDQDNFMEVLKAVAGTYRATPFFT VYISADSK  
SSNSNVIQVDQSGFLPSRDYYLNRTANEKVL TAYLDYMEELGMLLGG RPTSTREQMQQV  
LELEIQLANITVPQDQRRDEEKIYHKMSISELQALAPSMDWLEFLSFLLSPLELSDSEPV  
VVGMDYLQQVSELINRTEPSILNNYLIWNLVQKTTSSLD RRFESAQEKLLETLYGTKKS  
CVPRWQTCISNTDDALGFALGSLFVKATFDRQSKEIAEGMISEIRTA FEEALGQLVWMD E  
KTRQAAKEKADAIYDMIGFPDFILEPKELDDVYDGYEISED SFFQNMLNLYNFS AKVMAD

QLRKPPSRDQWSMTPQTVNAYYLPKNEIVFPAGILQAPFYARNHPKALNFGGIGVVMGH  
ELTHAFDDQGREYDKEGNLRPWWQNESLAAFRNHTACMEEQYNQYQVNGERLNGRQTLGE  
NIADNGGLKAAYNAYKAWLRKHGEEQQLPAVGLTNHQLFFVGFAQVWC SVRTPESSHEGL  
VTDPHSPARFRLVLTLSNSRDLRHFVGPVGSMPNPGQLCEVW

>sp|Q16610|ECM1\_HUMAN Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

MGTTARAALVLTYLAVASAASEGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHP  
DSSQHGGPPFEGQSQVQPPPSQEATPLQKEKLLPAQLPAEKEVGPPLPQEAVPLQKELPSL  
QHPNEQKEGTPAPFGDQSHPEPESWNAAQHCQQDRSQGGWGHRLDGFPPGRPSPDNLNQI  
CLPNRQHVVYGPWNLPQSSYSHLTRQGETLNFLEIGYSRCCHRSHTNRLECAKLWEEA  
MSRFCEAEFSVKTRPHWCCTRQGEARFSCFQEEAPQPHYQLRACPSHQPDISSGLELPFP  
PGVPTLDNIKNICHLLRRFRSVPRNLPATDPLQRELLALIQLEREFQRCCRQGNHTCTWK  
AWEDTLDKYCDREYAVKTHHHLLCCRHPSPTRDECFAARRAPYPNYDRDILTIDIGRVTPN  
LMGHLCGNQRVLTCHKHIPGLIHNMTARCCDLPFPEQACCAEEEEKLTFINDLGPRRNIW  
RDPALCCYLSPGDEQVNCFNINYLNRNALVSGDTENAKGQGEQGSTGGTNISSTSEPKKE

>sp|Q6P2E9|EDC4\_HUMAN Enhancer of mRNA-decapping protein 4 OS=Homo sapiens GN=EDC4 PE=1  
SV=1

MASCASIDIEDATQHLRDILKDRPAGGPSAESPRPSSAYNGDLNGLLVPDPLCSGDSTS  
ANKTGLRTMPPINLQEKQVICLSGDDSSTCIGILAKEVEIVASSDSSISSKARGSNKVKI  
QPVAKYDWEQKYYYGNLIAVSNSFLAYAIRAANNGSAMVRVISVSTERTLLKGFTGSVA  
DLAFAHLNSPQLACLDEAGNLFVWRLALVNGKIQEEILVHIRQPEGTPLNHFRRRIIWCPF  
IPEESEDCEESEPTVALLHEDRAEVWDLMLRSSHSTWPDVSQIKQGFIVVKGHSTCL  
SEGALSPDGTVLATASHDGYVKFWQIYIEGQDEPRCLHEWKPHDGRPLSCLLFCDNHKKQ  
DPDVPFWRFLITGADQNRELMWCTVSWTCLQTIRFSPDIFSSSVSPPSLKVCLDSAEY  
LILSDVQRKVLYVMELLQNQEEGHACFSSISEFLLTHPVLSFGIQVVSRCRLRHTEVLPA  
EEENDSLGADGTHGAGAMESAAGVLIKLFVHTKALQDVQIRFQPQLNPDVVAPLPTHTA  
HEDFTFGESRPELGSEGLGSAHGSQPDRLRRIVELPAPADFLSLSSETKPKLMTPDAFMT  
PSASLQQITASPSSSSSGSSSSSSSSSSSLTAVSAMSSTS AVDPSLTRPPEELTLSPKLQ  
LDGSLTMSSSGSLQASPRGLLPGLLPAPADKLTPKGPGQVPTATSALSLELQEVEPLGLP  
QASPSRTRSPDVISSASTALSQDIPEIASEALSRGFGSSAPEGLEPDSMASAASALHLLS  
PRPRPGPELGPQLGLDGGPGDGRHNTPSLLEAALTQEASTPDSQVWPTAPDITRETCST  
LAESPRNGLQEKHKSLAFHRPPYHLLQQRDSQDASAEQSDHDEVASLASASGGFGTKVP  
APRLPAKDWKTKGSPRTSPKLKRKSKDDGDAAMGSRLETHQVAEPPEDWPALIWQQQRE  
LAELRHSQEELLQRLCTQLEGLQSTVTGHVERALETRHEQEQRRLERALEGQQRGGQLQ  
EQLTQQLSQALSSAVAGRLERSIRDEIKKTVPVPCVSRSLPEMAGQLSNSVATKLTAVEGS  
MKENISKLLKSKNLDAIARAAADTLQGPMQAAYREAFQSVVLPAFEKSCQAMFQQINDS  
FRLGTQEYLLQLESHMKSARKAREQEAREPVLAQLRGLVSTLQSATEQMAATVAGSVRAEV  
QHQLHVAVGSQLESILAQVQRIVKGEVSVALKEQQA AVTSSIMQAMRSAAGTPVPSAHL  
CQAQQAHILQLLQGHNLQAFQQAALTAADLNLVLYVCETVDPAQVFGQPPCPLSQPVLLS  
LIQQLASDLGTRTDLKL SYLEEAVMHLDHSDPITRDHMGSVMAQVRQKLFQFLQAEPHNS  
LGKAARRLSLMLHGLVTPSLP

>sp|P14138|EDN3\_HUMAN Endothelin-3 OS=Homo sapiens GN=EDN3 PE=1 SV=1

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSAQPTAARSEGDCEETVAGPGEETVAG  
PGEGTVAPTALQGPSPGSPGQEAAGAPEHHSRRCTCTYKDKCEVYYCHLDIIWINT  
PEQTVPYGLSNYRGSFRGKRSAGPLPGNLQLSHRPHLRACACVGRYDKACLHFCTQTLDVD

SNSRTAEKTDKEEEKVEVKDQQSKQALDLHHPKLMPGSGLALAPSTCPRCLFQEGAP

>sp|P25101|EDNRA\_HUMAN Endothelin-1 receptor OS=Homo sapiens GN=EDNRA PE=1 SV=1

METLCLRASFWLALVGCVISDNPERYSTNLSNHVDDFTTFRGTELSFLVTTHQPTNLVLP  
SNGSMHNYCPQQTKITSAFKYINTVISCTIFIVGMVGNATLLRIIYQNKCMRNGPNALIA  
SLALGDLIYVVIDLPINVFKLLAGRWPFDHNDFGVFLCKLPFLQKSSVGITVLNLCALS  
VDRYRAVASWSRVQGIGIPLVTAIEIVSIWILSFILAIPEAIGFVMVPFEYRGEQHKTCM  
LNATSKFMEFYQDVKDWWLFGFYFCMPLVCTAIFYTLMTCEMLNRRNGSLRIALSEHLKQ  
RREVAKTVFCLVVFALCWFLHLSRILKKTVYNEMDKNRCELLSFLLLMDYIGINLATM  
NSCINPIALYFVSKFKNCFQSCLCCECYQSKSLMTSVPMNGTSIQWKNHDQNNHNTDRS  
SHKDSMN

>sp|P24530|EDNRB\_HUMAN Endothelin B receptor OS=Homo sapiens GN=EDNRB PE=1 SV=1

MQPPPSLCGRALVALVLACGLSRIWGEERGFPDRATPLLQTAEIMTPPTKTLWPKGSNA  
SLARSLAPAEVPGDRTAGSPPTISPPPCQGPPIKETFKYINTVVSCLVFVLGIIGNS  
TLLRIIYKMKMRNGPNILIASLALGDLLHIVIDIPINVYKLLAEDWPFGAEMCKLVPI  
QKASVGITVLSLCAISIDRYRAVASWSRIKGIGVPKWTAVEIVLIWVSVVLAVPEAIGF  
DIITMDYKGSYLRIKLLHPVQKTAFMQFYKTAKDWWLFSFYFCLPLAITAFFYTLMTCEM  
LRKSGMQIALNDHLKQRREVAKTVFCLVLFALCWLPLHLSRILKLTLYNQNDPNRCEL  
LSFLLVDYIGINMASLNSCINPIALYLVSFRFKNCFKSLCCWCQSFEEKQSLEEKQSC  
LKFKANDHGYDNFRSSNKYSSS

>sp|075530|EED\_HUMAN Polycomb protein EED OS=Homo sapiens GN=EED PE=1 SV=2

MSEREVSTAPAGTDMPAACKQKLSSDENNDPDLSGDENDDAVSIESGTNTERPDTPTNTP  
NAPGRKSWGKGKWKSKCKYSFKCVNSLKEDHNQPLFGVQFNWHSKEGDPLVFATVGSNR  
VTLYECHSQGEIRLLQSYVDADADENFYTCAWTYDSNTSHPLLAVAGSRGIIRIINPITM  
QCIKHYYVGHGNAINELKFHPRDPNLLSVSKDHALRLWNIQDTLVAIFGGVEGHRDEVL  
SADYDLLGEKIMSCGMDHSLKLWRINSKMMNAIKESYDYNPNKTNRPFISQKIHFPDFS  
TRDIHRNYVDCVRWLGDLILSKSCENAIVCWKPGKMEDDIDKIKPSESNTILGRFDYSQ  
CDIWMRFMSDFWQKMLALGNQVGKLYVWDLEVEDPHKAKCTTLTHHKCGAAIRQTSFSR  
DSSILIAVCDDASIWRWDLR

>sp|P24534|EF1B\_HUMAN Elongation factor 1-beta OS=Homo sapiens GN=EEF1B2 PE=1 SV=3

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIK  
SYEKEKASLPGVKKALGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEESEEAKRLRE  
ERLAQYESKKAKKPALVAKSSILLDVKPWDETDMAKLEECVRSIQADGLVWGSSKLVV  
GYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSMVAAFNKI

>sp|075071|EFC14\_HUMAN EF-hand calcium-binding domain-containing protein 14 OS=Homo sapiens GN=EFCAB14 PE=1 SV=1

MKKRKELNALIGLAGDSRRKKPKKGPSSHRLLRTEPPDSDESSESEEEFVVGNRSRF  
AKGDYLRCCIKICYPLCGFVILAACVVACVGLVWMQVALKEDLDALKEKFRMTESNQKSSF  
QEIPKLNEELLSKQKQLEKIESGEMGLNKVWINITEMNKQISLLTSAVNHLKANVKSAA  
LISLPTTVEGLQKSVASIGNTLNSVHLAVEALQKTVDEHKKTMELLQSDMNQHFLKETPG  
SNQIIPSPSATSELNKNTHSENKQDILYLHNSLEEVSALVGYQRQNDLKLEGMNETVS  
NLTQRVNLIESDVVAMSKVEKKANLSFSMMGDRSATLKRQSLDQVTNRDTVKIQSIKKE  
DSSNSQVSKLREKLQLISALTNPESNRPPETADEEQVESFTSKPSALPKFSQFLGDPVE  
KAAQLRPISLPGVSTEDLQDLFRKTGQDVGKLTQEIWTSLSGAMPEPESLRAFDSDG  
DGRYSFLELRVALGI



>sp|Q9BSW2|EFC4B\_HUMAN EF-hand calcium-binding domain-containing protein 4B OS=Homo sapiens GN=CRACR2A PE=1 SV=1

MAAPDGRVSRPQRLGQSGGPGKSGACLHPLDSLEQKETQEQTSGQLVMLRKAQEFFQ  
TCD AEGKGFIARKDMQRLHKELPLSLEELEDVFDALDADGNGYLTPQEFTTGFSHFFFSQ  
NNPSQEDAGEQVAQRHEEKVYLSRGDEDLGDMGEDEEAQFRMLMDRLGAQKVLEDES DVK  
QLWLQLKKEEPHLLSNFEDFLTRIISQLQEAHEEKNELECALKRKIAAYDEEIQHLYEEM  
EQQIKSEKEQFLLK DTERFQARSQLEQKLLCKEQELEQLTQKQKRLEGQCTALHHDKHE  
TKAENTKLKLTNQLARELERTSWELQDAQQLES LQQEACKLHQEKEMEYRVTESLQR  
EKAGLLKQLDFLRVCVGGHWPVLRAPPRSLGSEGPV

>sp|A8MZ26|EFCB9\_HUMAN EF-hand calcium-binding domain-containing protein 9 OS=Homo sapiens GN=EFCAB9 PE=3 SV=2

MRLKQGSFLWYLYLDKIYCLLSVRNVKALAEYFHILDVHGKNTLNDVLFYHFLHHVTDLK  
KAQINIVFDMLDWNAVGEIDFEKFYMLVCMLLAHQNHLEGQFMYRHSRPVFDLLDLKGD L  
RIGAKNFEMYRFLFNIQKQELKDLFRDFDITGDNRLNYQEFKLYTIIYTDKLQKRQKTEE  
KEKGERKRSLSYKCHIK

>sp|Q5JVL4|EFHC1\_HUMAN EF-hand domain-containing protein 1 OS=Homo sapiens GN=EFHC1 PE=1 SV=1

MVSNPVHGLPFLPGTSFKDSTKTAFHRSQTLSYRNGYAIVRRPTVGIGGDRLQFNQLSQA  
ELDELASKAPVLTYGQPKQAPPADFI PAHVAFD KKVLFDAYFQEDVPMSTEEQYRIRQV  
NIYYYLEDDSMSVIEPVVENS GILQGKLIK RQRLAKNDRGDHYHWKDLNRGINITIYGKT  
FRVVD CDQFTQVFLESQGIELNPPEKMALDPYTELRKQPLRKYVTPSDFDQLKQFLTFDK  
QVLRFYAIWDDTDSMYGECRTYIIHYLMDDTVEIREVHERNDGRDPFLLMNRQRPVKV  
LVENAKNFPQCVLEISDQEVLEWYTAKDFIVGKSLTILGRTFFIYDCDPFTRRYYKEKFG  
ITDLPRIDVSKREPPPVKQELPPYNGFGLVEDSAQNCFALIPKAPKDV IKMLVNDNKVL  
RYLAVLESPIPEDKDRRFVFSYFLATDMISIFEPPVRNSGIIGGKYLGR TKVVKPYSTVD  
NPVYYGPSDFFIGAVIEVFGHRFIILDTDEYVLKYMESNAAQYSPEALASIQNHVRKREA  
PAPEAESKQTEKDPGVQELEALIDTIQKQLKDHCKDNIREAFQIYDKEASGYVDRDMFF  
KICESLNPVDDSLVKELIRMCSHGEGKINYYNFVRAFSN

>sp|P52797|EFNA3\_HUMAN Ephrin-A3 OS=Homo sapiens GN=EFNA3 PE=1 SV=1

MAAAPLLLLLLLLVPVPLPLLAQGPGGALGNRHAVYWNSSNQHLRREGYTVQVNVNDYLD  
IYCPHYNSSGVGPGAGPGPGGGAEQYVLYMVS RNGYRTCNASQGFKRWE CNRPHAPHSPI  
KFSEKFQRYSAFSLGYEFHAGHEYYYISTPTHNLHWKCLRMKV FVCCASTSHS GEKPVPT  
LPQFTMGPNVKINVLEDFEGENPVQPKLEKSISGTSPKREHLPLAVGIAFFLMTFLAS

>sp|Q3SY89|EA3L1\_HUMAN RNA polymerase II transcription factor SIII subunit A3-like-1 OS=Homo sapiens GN=TCEB3CL PE=2 SV=1

MAAGSTTLRAVGKLQVRLATKTEPKKLEKYLQKLSALPMTADILAETGIRKTVKRLRKHQ  
HVGDFARDLAARWKKLVLDVRNTGPD PQDPEESASRQRFGEALQEREKAWGF PENATAPR  
SPSHSPEHRR TARTRPPGQQRPHRSPSREPR AERKRPRMAPADSGPHRDPPTRTAPLPM  
PEGPEPAVPGEQPRGHAAAGG PLLGGCQGQPQGEAVGSHSKGHKSSRGAS AQKSPP  
VQESQSERLQAAGADSAGPKTVPSHVFSELWDPSEAWMQANYDLSAFEAMTSQANPEAL  
SAPTLQEEAAFPGRRVNAKMPVYSGSRPACQLQVPTLRQQCLRVPRNNPDALGDVEGV PY  
SVLEPVLEGWTPDQPYRTEKD NAALARETDELWRIHCLQDFKEEKPQE HESWRELYLRLR  
DAREQRLRVVTTKIRSARENKPSGRQTKMICFNSVAKTPYDASRRQEKSAGAADPGNGEM  
EPAPKPAGSSQAPSGLDGDGGSVSGGSSNRHAAPADKTRKQAAKKVAPLMAKAIRDYK

GRFSRR

>sp|Q658K8|EF1DL\_HUMAN Putative elongation factor 1-delta-like protein OS=Homo sapiens  
GN=EEF1DP3 PE=5 SV=1

MATNFLVGEKIWFHFKFYGDAERRFYEQMNGPVAGASLQEASMLHDIARARENIPKSLA  
GSLGPGASSGPGSDHSELVVRITASLEVDNQRDLAERAGEELARPLGHSPADPAHVSHAPS  
GAPGQEASHTSRG

>sp|P26641|EF1G\_HUMAN Elongation factor 1-gamma OS=Homo sapiens GN=EEF1G PE=1 SV=3

MAAGTLYTYPENWRAFKALIAAQYSGAQVRVLSAPPHFHFQTNRTPEFLRKFPAGKVPA  
FEGDDGFCVFESNAIAYVVSNEELRGSTPEAAAQVVQWVSFADSDIVPPASTWVFPTLGI  
MHHNKQATENAKEEVRRLGLLDAYLKTRTFLVGERVTLADITVVCTLLWLYKQVLEPSF  
RQAFPNTNRWFLTICINPQFRAVLGEVKLCEKMAQFDAKKFAETQPKKDTPRKEKGSREE  
KQKPQAERKEEKAAAPAPEEEMDECEQALAAEPKAKDPFAHLPKSTFVLDEFKRKYSNE  
DTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGMFQRLDKLRKNASFV  
ILFGTNNSSSISGVWVFRGQELAFPLSPDWQVDYESYTWKLDPGSEETQTLVREYFSWE  
GAFQHV GKAFNQGKIFK

>sp|Q5VUJ9|EFCB2\_HUMAN EF-hand calcium-binding domain-containing protein 2 OS=Homo  
sapiens GN=EFCAB2 PE=2 SV=1

MLGPGQVRLRPRVWRDKAGGRVADGASGLPPARGSWRETGTGRALGASSPPRPAQGSSSP  
GIQSGPSSRPGSPRGAEQAGTPRPRLSLGISQATGSAARWTRRTGKGLGYNSEIRPRT  
LLIEHLMEGGRDRHHTMTVLWGTEIIVAEFHKKIKEAFEVFDHESNNTVDVREIGTIIR  
SLGCCPTEGELHDLIAEVEEEEPTGYIRFEKFLPVMTEILLERKYRPIPEDVLLRAFEVL  
DSAKRGFLTDEL IKYTEEDGVSLRRPG

>sp|Q9BUP0|EFHD1\_HUMAN EF-hand domain-containing protein D1 OS=Homo sapiens GN=EFHD1 PE=1  
SV=1

MASEELACKLERRLRREEAEESGPQLAPLGAPAPEPKPEPEPPARAPTASADAELSAQLS  
RRLDINEGAARPRRCRVFNPHYTEFPEFSRRLIKDLESMFKLYDAGRDFIDLMELKLMME  
KLGAPQTHLGLKSMIKEVDEDFDGKLSFRELLIFHAAAAGELQEDSGLMALAKLSEIDV  
ALEGVKGAKNFPEAKVQALSSASKFEAEKAEQDERKREEEERLRQAAFQKLKANFNT

>sp|P52798|EFNA4\_HUMAN Ephrin-A4 OS=Homo sapiens GN=EFNA4 PE=1 SV=1

MRLPLLRRTLWAAFLGSPLRGGSSLRHVYWNSSNPRLRGDAVVELGLNDYLDIVCPH  
YEGPGPEGPETFALYMVDWPGYESCQAEGPRAYKRWVCSLPFGHVQFSEKIQRFTPFSL  
GFEFLPGETYIIISVPTPESSGQCLRLQVSVCCCKERKSESAPVQSPGESGTSWRRGGDT  
PSPLCLLLLLLLLILRLRLIL

>sp|O15371|EIF3D\_HUMAN Eukaryotic translation initiation factor 3 subunit D OS=Homo  
sapiens GN=EIF3D PE=1 SV=1

MAKFMTPTVIQDNPSGWGPCAVPEQFRDMPYQPFSGDRLGKVADWTGATYQDKRYTNKYS  
SQFGGGSQYAYFHEEDESFFQLVDTARTQKTAYQRNMRFAQRNLRRDKDRRNMLQFNLQ  
ILPKSAKQKERERIRLQKKFQKQFGVRQKWDQKSQKPRDSSVEVRSDWEVKEEMDFPQLM  
KMRYLEVSEPQDIECCGALEYDYKAFDRITTRSEKPLRSIKRIFHTVTTDDPVIRKLAK  
TQGNVFATDAILATLMSCTRSVYSWDIVVQVRVGSKLFFDKRDNSDFDLLTVSETANEPPQ  
DEGNSFNSPRNLAMEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRY  
RRWKLGGDDIDLVRCEHDGVMGTANGEVSFINIKTLNEWDSRHCNGVDWRQKLDSQRGAV  
IATELKNNSYKLARWTCCALLAGSEYLLGYVSRYHVKDSRHHVILGTQQFKPNEFASQI  
NLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDGTFSSDEDEEEEEEEEE

EEEEEEET

>sp|Q15723|ELF2\_HUMAN ETS-related transcription factor Elf-2 OS=Homo sapiens GN=ELF2 PE=1 SV=2

MTSAVVDSSGGTILELSSNGVENQEESEKVSEYPAVIVEPVPSARLEQGYAAQVLVYDDET  
YMMQDVAEEQEVENETENVETVEASVHSSNAHCTDKTIEAAEALLHMESPTCLRDSRSPVEV  
FVPPCVSTPEFIHAAMRPDVIETETVVEVSTEESEPMDTSPIPTSPDSHEPMKKKKVGRKP  
KTQQSPISNGSPELGIKKKPREGKNTTYLWEFLDLLQDKNTCPRYIKWTQREKGIFKL  
VDSKAVSKLWGKHKNKPDMMNYETMGRALRYYYQRGILAKVEGQRLVYQFKDMPKNIVVID  
DDKSETCNEDLAGTTDEKSLERVSLSAESLLKAASSVRSGKNSSPINCRAEKGVARVVN  
ITSPGHDASSRPTTTASVSATAAPRTVRVAMQVPVMTSLGQKISTVAVQSVNAGAPLI  
TSTSPTTATSPKVVIQTIPTVMPASTENGDKITMQPAKIIITIPATQLAQCLQTKSNLTG  
SGSINIVGTPLAVRALTPVSIAGHTPVMRLSMPTQQASGQTPPRVISAVIKGPEVKSEAV  
AKKQEHVDVKTLLVEEKPADGNKTVTHVVVSAPSAIALPVTMKTEGLVTCEK

>sp|Q9UKW6|ELF5\_HUMAN ETS-related transcription factor Elf-5 OS=Homo sapiens GN=ELF5 PE=1 SV=2

MPSLPHSHRVMLDSVTHSTFLPNASFCDPLMSWTDLFSNEEYYPAFEHQTACDSYWTSVH  
PEYWTKRHWVWEWLQFCCDQYKLDNCSFCNFNISGLQLCSMTQEEFVEAAGLCGEYLYF  
ILQNIRTQGYFFNDAEESKATIKDYADSNCLKTSGIKSQDCHSHSRTSLQSSHLWEFVR  
DLLLSPEENCGILEWEDREQGIFRVVKSEALAKMWGQRKKNDRMITYEKLSRALRYYYKTG  
ILERVDRRLVYKFGKNAHWQEDKL

>sp|Q9HB65|ELL3\_HUMAN RNA polymerase II elongation factor ELL3 OS=Homo sapiens GN=ELL3 PE=1 SV=2

MEELQEPLRGQLRLCFTQAARTSLLLLRLNDAALRALQECQRQVRPVIAFQGHRYLRL  
PGPGWSCLFSFIVSQCCQEGAGGSLDLVCQRFLRSGPNSLHCLGSLRERLIWAAMDSIP  
APSSVQGHNLTEDARHPESWQNTGGYSEGDAVSQPQMALEEVSVSDPLASNQGGSLPGSS  
REHMAQWEVRSQTHVPNREPVALPSSASRKRLDKKRSVPVATVELEEKRFRTLPLVPSP  
LQGLTNQDLQEGEDWEQEDMDPRLEHSSSVQEDSESPSPEDIPDYLLQYRAIHSAEQQ  
HAYEQDFETDYAEYRILHARVGASQRFIELGAEIKRVRRTPEYKVLKDIIQEYKKFR  
KQYPSYREEKRRCEYLHQKLSHIKGLILEFEEKNRGS

>sp|Q96FG2|ELMD3\_HUMAN ELMO domain-containing protein 3 OS=Homo sapiens GN=ELMOD3 PE=1 SV=2

MNEKSCSFHSKEELRDGQGERLSAGYSPSYDKDSVLAFRGIPISELKNHGILQALTTEA  
YEWEPVVSTEVVRAQEEWEAVDTIQPETGSQASSEQPGQLISFSEALQHFQTVDLSPFK  
KRIQPTIRRTGLAALRHYLFGPPKLHQLRREERDLVLTIAQCGLDSQDPVHGRVLQTIYK  
KLTGSKFDALHGNHWEDLGFQGANPATDLRGAGFLALLHLLYLVMDSKTLPMAQEIFRL  
SRHHIQQFPFCLMSVNITHIAIQALREECLRECNRQKVIPVNSFYAATFLHLAHVWR  
TQRKTIISDSGFVLKELEVLAKKSPRRLKLTLELYLARVSKGQASLLGAQKCYGPEAPPFK  
DLTFTGESDLQSHSSEGVWLI

>sp|P08246|ELNE\_HUMAN Neutrophil elastase OS=Homo sapiens GN=ELANE PE=1 SV=1

MTLGRRLACLFLACVLPALLGGTALASEIVGGRRARPHAWPFMVSLQLRGGHFCGATLI  
APNFVMSAAHCVANVNVRAVRVVLGAHNLSRREPTRQVFAVQRIFENGYPVNLLNDIVI  
LQLNGSATINANVQVAQLPAQGRRLGNGVQCLAMGWLLGRNRGIVSLQELNVTVTSL  
CRRSNVCTLVRGRQAGVCFGDSGSPLVCNGLIHGIVFVRGGCASGLYPDAFAPVAQFVN  
WIDSIIQRSEDNPCPHRPDPASRTH

>sp|Q15369|ELOC\_HUMAN Transcription elongation factor B polypeptide 1 OS=Homo sapiens  
GN=TCEB1 PE=1 SV=1

MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEV  
NFREIPSHVLSKVCMYFTYKVRYSSTEIPEFPPIAPEIALELLMAANFLDC

>sp|Q6ZMW3|EMAL6\_HUMAN Echinoderm microtubule-associated protein-like 6 OS=Homo sapiens  
GN=EML6 PE=2 SV=2

MADRTAPRCQLRLEVYGYRGHQCRNNLYYTAGEVVFVAGVGVVYNTREHSQKFFLGH  
NDDIISLALHPDKTLVATGQVGKEPYICIWDSYNVQTVSLLKDVHTHGVACLAFDSDGQR  
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>sp|Q6PCB8|EMB\_HUMAN Embigin OS=Homo sapiens GN=EMB PE=1 SV=1

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>sp|Q5J8M3|EMC4\_HUMAN ER membrane protein complex subunit 4 OS=Homo sapiens GN=EMC4 PE=1  
SV=2

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LLL

>sp|Q9Y6C2|EMIL1\_HUMAN EMILIN-1 OS=Homo sapiens GN=EMILIN1 PE=1 SV=2

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>sp|P61550|ENV1\_HUMAN Endogenous retrovirus group S71 member 1 Env polyprotein OS=Homo  
sapiens GN=ERVS71-1 PE=2 SV=1

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>sp|Q9NPA8|ENY2\_HUMAN Transcription and mRNA export factor ENY2 OS=Homo sapiens GN=ENY2  
PE=1 SV=1

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>sp|Q14507|EP3A\_HUMAN Epididymal secretory protein E3-alpha OS=Homo sapiens GN=EDDM3A  
PE=2 SV=2

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>sp|Q96L91|EP400\_HUMAN E1A-binding protein p400 OS=Homo sapiens GN=EP400 PE=1 SV=4

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>sp|Q14236|EPAG\_HUMAN Early lymphoid activation gene protein OS=Homo sapiens GN=DIAPH2-  
AS1 PE=2 SV=2

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>sp|P21709|EPHA1\_HUMAN Ephrin type-A receptor 1 OS=Homo sapiens GN=EPHA1 PE=1 SV=4

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>sp|P07992|ERCC1\_HUMAN DNA excision repair protein ERCC-1 OS=Homo sapiens GN=ERCC1 PE=1  
SV=1

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WEFGDVIPDYVLGQSTCALFLSLRYHNLHPDYIHGRLQSLGKNFALRVLLVQVDVKDPQQ  
ALKELAKMCILADCTLILAWSPEEAGRYLETYKAYEQKPADLLMEKLEQDFVSRVTECLT

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>sp|P28715|ERCC5\_HUMAN DNA repair protein complementing XP-G cells OS=Homo sapiens  
GN=ERCC5 PE=1 SV=3

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>sp|P24390|ERD21\_HUMAN ER lumen protein-retaining receptor 1 OS=Homo sapiens GN=KDELR1  
PE=1 SV=1

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>sp|P62495|ERF1\_HUMAN Eukaryotic peptide chain release factor subunit 1 OS=Homo sapiens  
GN=ETF1 PE=1 SV=3

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>sp|Q8IVF4|DYH10\_HUMAN Dynein heavy chain 10, axonemal OS=Homo sapiens GN=DNAH10 PE=1  
SV=4

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VLNEIVTAAIKEVAIEKAVKEILDTWENMKFTTVVKYCKGTQERGYILGSVDEIIQSLDDN  
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YWFVLTAEESLWYKDEEEKEKKYMLPLDNLKIRDVEKGFM SNKHVFAIFNTEQRNVYKDL  
RQIELACDSQEDVDSWKASFLRAGVYPEKDQAENEDGAQENTFSMDPQLERQVETIRNLV  
DSYVAIINKSIRDLPKTI MHLMINNTKAFIHHELLAYLYSSADQSSLMESADQAQRD  
DMLRMYHALKEALNIGDISTSTVSTPVPPVDDTWLQSASSHSPTPQRRPVSSIHPPGR  
PPAVRGPTPGPLIPVPVGAASFSAPPIPSRPGPQSVFANSDLFPAPPQIPSRPVRIPP  
GIPPGVPSRRPPAAPSRPTIIRPAEPSLLD

>sp|P00374|DYR\_HUMAN Dihydrofolate reductase OS=Homo sapiens GN=DHFR PE=1 SV=2

MVGLNCIVAVSQNMGIGKNGDLPWPPLRNEFRYFQRM TTTSSVEGQNLVIMGKKTWFS  
IPEKNRPLKGRINLVLSRELKEPPQGAHFLSRSLDDALKLTEQPELANKVD MVWIVGGSS  
VYKEAMNHPGHLKLFVTRIMQDFESDTFFPEIDLEKYKLLPEYPGVLSDVQEEKGIKYKF  
EVEKND

>sp|Q9BQI3|E2AK1\_HUMAN Eukaryotic translation initiation factor 2-alpha kinase 1 OS=Homo  
sapiens GN=EIF2AK1 PE=1 SV=2

MQGGNSGVRKREEEGDGAGAVAAPPAIDFPAEGPDPEYDESDVPAEIQVLKEPLQQPTFP  
FAVANQLLLVSLLEHLSHVHEPNPLRSRQVFKLLCQTFIKMGLSSFTCSDEFSSLRHH  
NRAITHLMRSAKERVRQDPCEDISRIQKIRSREVALEA QTSRYLNEFEELAILGKGGYGR  
VYKVRNKLDGQYYAIKKILIKGATKTVCMKVLREVKVLAGLQHPNIVGYHTAWIEHVHI  
QPRADRAAIELPSLEVLSDQEEDREQCGVKND ESSSSSIIFA EPTPEKEKRFGESDTENQ

NNKSVKYTTNLVIRESGELESTLELQENGLAGLSASSIVEQQLPLRRNSHLEESFTSTEE  
SSEENVNFLGQTEAQYHMLHIQMQLCELSLWDWIVERNKRGREYVDESACPYVMANVAT  
KIFQELVEGVFYIHNMGI VHRDLKPRNIFLHGPDQQVKIGDFGLACTDILQKNTDWTNRN  
GKRTPHTSRVGTCLYASPEQLEGSEYDAKSDMYSLGVVLELFLQPFQTEMERA EVLTGL  
RTGQLPESLRKRCPVQAKYIQHLTRRNSSQRPSAIQLLQSELFQNSGNVNLTLQMKIIEQ  
EKEIAELKKQLNLLSQDKGVRDDGKDGGVG

>sp|075461|E2F6\_HUMAN Transcription factor E2F6 OS=Homo sapiens GN=E2F6 PE=1 SV=1  
MSQQRPAKRLPSLLDPTETVRRRCRDPINVEGLLPSKIRINLEDNVQYVSMRKALKVK  
RPRFDVSLVYLTRKFMDLVRSAPEGILDNLKVATKLGVRKRRVYDITNVLDGIDLVEKKS  
KNHIRWIGSGLSNFGAVPQQKKLQEELSDLSAMEDALDELIKDCAQQLFELTDDKENERL  
AYVTYQDIHSIQAFHEQIVIAVKAPAETRLDVPAPREDSITVHIRSTNGPIDVYLCEVEQ  
GQTSNRKSEGVGTSSSESTHPEGPEEEENPQQSEELLEVS

>sp|Q9H329|E41LB\_HUMAN Band 4.1-like protein 4B OS=Homo sapiens GN=EPB41L4B PE=2 SV=2  
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AGGGPLLTGGAHVHISAAGAAKATLYCRVFLLDGTEVSVDLPHKAKGQDLFDQIVYHLDL  
VETDYFGLQFLDSAQVAHWLDHAKPIKKQMKIGPAYALHFRVKYSSSEPNNLREEFTRYL  
FVLQLRHDILSGKLKCPYETAVALAALCLQAELGECPEHTPELVSEFRFIPNQTEAME  
FDIFQRWKECRGKSPAQAELSYLNKAKWLEMYGVDMHVVRGRDGCEYSLGLTPTGILIFE  
GANKIGLFFWPKITKMDFKKSKLTLVVVEDDDQGREQEHTFVFRLLDSARTCKHLWKCAVE  
HHAFFRLRTPGNSKSNRSDFIRLGSFRFRSGRTEYQATHGSRLRRTSTFERKPSKRYPSR  
RHSTFKASNPVIAAQLCSKTNPVHNYQPQYHPNIHPSQPRWHPSPNVSYPLPSPVLSS  
SDRLPFGIEENGTPFLTAASGRHHHQHQHQHQHHSNYSLSLTLENKEGPLRSPNSSS  
KSLTKLSPGTPALFSEAAHLLKLELETVKAAGWPPLHININKAEKKVSEKTLQTPLL  
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PAVEKPEIKPRVRKLTRQYSFDEDDLPPDLAEAVGVTTSTTTNTTTAATQVSVPLPSPK  
VQNVSPPHKSEGGKLLSPGAKSPSDRGGAFTLEPGDLLMDFTEATPLAEPASNPCHASR  
CSPPLSLPMKEETGVCMPPIKTRLIKTFPVDTMNPFDTFTTGPQFTADFRDSKLQCC  
PGPSTPLIPAATLRPLTETVSTVQTIYTRKPVSLAASAETLRQELEREKMMKRLMTEL

>sp|Q66K89|E4F1\_HUMAN Transcription factor E4F1 OS=Homo sapiens GN=E4F1 PE=1 SV=2  
MEGAMAVRVTAHTAEAQAEGREAGEGAVAAVAAALAPSGFLGLPAPFSEEDDDVHRC  
GRCQAEFTALEDVQHKIQKACQRAPPEALPATPATTALLGQEVVPAAPGPEEPITVAHI  
VVEAASLAADISHASDLVGGGHIKEVIVAAEELGDGEMAEAPGSPRQQGLGLAGEGEQA  
QVKLLVNKDGRYVCALCHKTFKTGSILKAHMTSSRKDHECKLCGASFRTKGSILRHHR  
RHTDERPYKCSKCGSFRESGALTRHLKSLTPCTEKIRFSVSKDVVSKEDARAGSGAGA  
AGLGTATSSVTGEPIETSPVIHLVTDAGTVIHEVHVQMQLSLGMKALAEPPVSQELP  
CSSEGSRENLLHQAMQNSGIVLERAAGEEGALEPAPAAGSSPQPLA AAPQLPVLEVQPL  
ETQVASEASAVPRTHPCPCQSETFPTAATLEAHKRGTGPRPFACAQCGKAFPKAYLLKK  
HQEVHVRERRFRGDCGKLYKTIAHVRGHRRVHSDERPYPCKGKRYTKNAQQVHFRT  
HLEEKPHVCQFCSRGFREKGSVLRHVRHHTGEKPFKCYKCGRGAEHGTLNRHLRTKGGC  
LLEVEELLVSEDSAAAATTVLTEDPHTVLVEFSSVADTQEYII EATADDAETSEATEII  
EGTQTEVD SHIMKVQQIVHQASAGHQIIVQNVMTDEETALGPEAAAADTITATPESLT  
EQVAMTLASAISEGTVLAARAGTSGTEQATVTMVSSIEDIEILEHAGELVIASPEGQLEVQ  
TVIV

>sp|A6NLF2|EA3L2\_HUMAN RNA polymerase II transcription factor SIII subunit A3-like-2  
OS=Homo sapiens GN=TCEB3CL2 PE=3 SV=1

MAAGSTTLRAVGKLVRLATKTEPKKLEKYLQKLSALPMTADILAETGIRKTVKRLRKHQ  
HVGDFARDLAARWKKLVLDVRNTGPDQDPEESASRQRFGEALQEREKAWGFENATAPR  
SPSHSPEHRRTARRTPPGQQRPHRSPSREPRERKRPRMAPADSGPHRDPPTRTAPLPM  
PEGPEPAVPGEQPGRGHAHAAGGGLLGQGCQGQPQGEAVGSHSKGHKSSRGASAKSPP  
VQESQSERLQAAVADSAGPKTVPSHVSELWDPSEAWMQANYDLLSAFEAMTSQANPEAL  
SAPTLQEEAAFPGRRVNAKMPVYSGSRPACQLQVPTLRQQCLRVPRNNPDALGDVEGVY  
SALEPVLEGWTPDQPYRTEKDNAALARETDELWRIHCLQDFKEEKPQEHEHSWRELYLRLR  
DAREQLRVVTTKIRSARENKPSGRQTKMICFNSVAKTPYDASRRQKSAGAADPGNGEM  
EPAPKPAGSSQAPSGLDGDGGSVSGGGSSNRHAAPADKTRKQAARKVAPLMAKAIRDYK  
GRFSRR

>sp|Q13011|ECH1\_HUMAN Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial OS=Homo sapiens GN=ECH1 PE=1 SV=2

MAAGIVASRRRLDLLTRRLTGSNYPGLSISLRLTGSSAQEEASGVALGEAPDHSYESLRV  
TSAQKHVLHVQLNRPKNRKNAMNKVFWREMVECFNKISRADCRAVVISGAGKMFTAGIDL  
MDMASDILQPKGDDVARISWYLRDIITRYQETFNVIERC PKPVIAAVHGGCIGGGVDLVT  
ACDIRYCAQDAFFQVKEVDVGLAADVGTLQRLPKVIGNQSLVNELAFTARKMMADEALGS  
GLVSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRDHSVAESLNYVASWNMS  
MLQTQDLVKSQATTENKELKTVTF SKL

>sp|P40939|ECHA\_HUMAN Trifunctional enzyme subunit alpha, mitochondrial OS=Homo sapiens GN=HADHA PE=1 SV=2

MVACRAIGILSRFSAFRILRSRGYICRNFTGSSALLTRTHINYGKGDVAVVRINSPNSK  
VNTLSKELHSEFSEVMNEIWASDQIRSAVLISSKPGCFIAGADINMLAACKTLQEV TQLS  
QEAQRIVEKLEKSTKPIVAAINGSCGGGLEVAISCQYRIATKDRKTVLGTPEVLLGALP  
GAGGTQRLPKMVGVPAAALDMMLTGRSIRADRAKKMGLVDQLVEPLGPGLKPPEERTIEYL  
EEVAITFAKGLADKKISPKRDKGLVEKLTAYAMTIPFVRQQVYKKVEEKVRKQTKGLYPA  
PLKIIDVVKTGIEQSDAGYLCESQKFGELVMTKESKALMGLYHGQVLCCKNKFGAPQKD  
VKHLAILGAGLMGAGIAQVSVDKGLKTI LKDATLTALDRGQQQVFKGLNDKVKKKALTSF  
ERDSIFSNTLGQLDYQGFEKADMVIEAVFEDLSLKHRLVEVEAVIPDHCIFASNTSALP  
ISEIAAVSKRPEKVI GMHYFSPVDMQMLEIITTEKTSKDTASAVAVGLKQGKVIIVVK  
DGPFGYTRCLAPMMSEVIRILQEGVDPKKLDSLTSFGFPVGAATLVDEVGVDVAKHVA  
EDLGKVFGERFGGPNPELLTQMVSKGFLGRKSGKGFYIYQEGVKKDLNSDMDSILASLK  
LPPKSEVSSDEDIQFRLVTRFVNEAVMCLQEGILATPAEGDIGAVFGLGFPPCLGGPFRF  
VDLYGAQKIVDRLKKYEAAYGKQFTPCQLLADHANS PNKKFYQ

>sp|P55084|ECHB\_HUMAN Trifunctional enzyme subunit beta, mitochondrial OS=Homo sapiens GN=HADHB PE=1 SV=3

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKTLAKPNIRNVVVVDGV  
RTPFLLSGTSYKDLMPHDLARAALTGLLHRTSVPKEVV DYIIFGTVIQEVKTSNVAREAA  
LGAGFSDKTPAHTVTMACISANQAMTTGVGLIASGQCDVIVAGGVELMSDVP IIRHSRKM  
KLMLDLNKA KSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGHSADRLAAAFVSRLE  
QDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLKPAFIKPY  
GTVTAANSSFLT DGASAMLIMAEKALAMGYKPKAYLRDFMYVSQDPKDQLLLGPTYATP  
KVLEKAGLTMNDIDAFEFHEAFSGQILANFKAMDSDFWFAENYMRKTKVGLPPELKFNNW

GGSLSLGHPFGATGCRLVMAAANRLRKEGGQYGLVAACAAGGQGHAMIVEAYPK

>sp|Q86YB7|ECHD2\_HUMAN Enoyl-CoA hydratase domain-containing protein 2, mitochondrial  
OS=Homo sapiens GN=ECHDC2 PE=1 SV=2

MLRVLCLLRPWRPLRARGCASDGAAGGSEIQVRALAGPDQGITEILMNRPSARNALGNVF  
VSELLETLAQLREDRQVRVLLFRSGVKGVFCAGADLKEREQMSEAEVGVFVQRLRGLMND  
IAAFPAPTIAAMDGFALGGGLELALACDLRVAASSAVMGLIETTRGLLPGAGGTQRLPRC  
LGVALAKELIFTGRRLSGTEAHVLGLVNHAVAQNEEGDAAYQRARALAEILPQAPIAVR  
LGKVAIDRGTEVDIASGMAIEGMCYAQNIPTRDRLEGMAAFREKRTPKFVGK

>sp|P12724|ECP\_HUMAN Eosinophil cationic protein OS=Homo sapiens GN=RNASE3 PE=1 SV=2

MVPKLFTSQICLLLLGLMGVEGSLHARPPQFTRAQWFQIHISLNPPRCTIAMRAINNY  
RWRCKNQNTFLRTTFANVVNVCGNQSIRCPHNRTLNNCHRSRFRVPLLHCDLINPGAQNI  
SNCTYADRPGRRFYVACDNRDPRDSPRYPVVPHLDTTI

>sp|Q9H8V3|ECT2\_HUMAN Protein ECT2 OS=Homo sapiens GN=ECT2 PE=1 SV=4

MAENSVLTSTTGRTSLADSSIFDSKVTEISKENLLIGSTSYYEEEMPQIETRVILVQEAG  
KQEELIKALKTIKIMEVPVIKIKESCPGKSDEKLIKSVINMDIKVGVKMESVEEFEGLD  
SPEFENVFVVTDFQDSVFNDLYKADCRVIGPPVVLNCSQKGEPLPFSCRPLYCTSMNLV  
LCFTGFRKKEELVRLVTLVHHMGGVIRKDFNSKVTHLVANCTQGEKFRVAVSLGTPIMKP  
EWIYKAWERRNEQDFYAAVDDFRNEFKVPPFQDCILSFLGFSDEEKTNMEEMTEMQGGKY  
LPLGDERCTHLVVEENIVKDLPEPSKKLYVVKQEWFGSIQMDARAGETMYLYEKANTP  
ELKKSVMMLSLNTPNSNRKRRRLKETLAQLSRETDVSPFPPRKRPSAEHSLSIGSLDIS  
NTPESSINYGDTPKSCTKSSKSSTPVPSKQSARWQVAKELYQTESNYVNILATIIQLFQV  
PLEEEGQRGGPILAPEEIKTIFGSIPDIFDVHTKIKDDLEDLIVNWDESKSIGDIFLKYS  
KDLVKTYPPFVNFEMSKETIIKCEKQKPRFHAFLKINQAKPECGRQSLVELLIRPVQRL  
PSVALLNLDLKKHTADENPDKSTLEKAIGSLKEVMTHINEDKRKTEAQKQIFDVVYEVDG  
CPANLLSSHRSLVQRVETISLGEHPCDRGEQVTLFLFNDCLEIARKRHKVIGTFRSPHGQ  
TRPPASLKHIHLMPLSQIKKVLDIRETEDCHNAFALLVRPPEQANVLLSFQMTSDELPK  
ENWLKMLCRHVANTICKADAENLIYTADPESFEVNTKMDSTLSRASRAIKKTSKKVTRA  
FSFSKTPKRALRRALMTSHGSGVEGRSPSSNDKHVMSRLSSTSSLAGIPSPSLVSLPSFFE  
RRSHTLSRSTTHLI

>sp|Q8WWZ3|EDAD\_HUMAN Ectodysplasin-A receptor-associated adapter protein OS=Homo sapiens  
GN=EDARADD PE=1 SV=3

MGLRTTKQMGRGTKAPGHQEDHMKVPVEDTDPSTLSFNMSDKYPIQDTELPKAEECDTI  
TLNCPRNSDMKNQGEENGFPDSTGDPLPEISKDNSCKENCTCSSCLLRAPTISDLLNDQD  
LLDVIRIKLDPCHPTVKNWRNFASKWGMSYDELCFLEQRPQSPTLEFLLRNSQRTVGQLM  
ELCRLYHRADVEKVLRRWVDEEWPKRERGDPSRHF

>sp|Q92611|EDEM1\_HUMAN ER degradation-enhancing alpha-mannosidase-like protein 1 OS=Homo  
sapiens GN=EDEM1 PE=1 SV=1

MQWRALVLGLVLLRLGLHGVWLWVFGLGPSMGFYQRFPLSFQQLRSPDGPASPTSGPV  
GRPGGVSGPSWLQPPGTGAAQSPRKAPRRPGPGMCGPANWGYVLGGRGRGPDEYEKRYSG  
AFPPQLRAQMRDLARGMFVFGYDNYMAHAFPQDELNP IHCGRGPDGRGDPSNLNINDVLG  
NYSLTLDALDTLAIMGNSSEFQKAVKLVINTVSFDKSTVQVFEATIRVLGSLLSAHRI  
ITDSKQPFGDMTIKDYDNELLYMAHDLAVRLLPAFENTKTGIPYPRVNLKTGVPPDTNNE  
TCTAGAGSLLVEFGILSRLLDGSTFEWARRAVKALWNLRSNDTGLLGNVVNIQTGHWVG  
KQSGLGAGLDSFYEYLLKSYILFGEKEDLEMFNAAYQSIQNYLRRGREACNEGEGDPPLY

VNVNMFSGQLMNTWIDSLQAFFPGLQVLIGDVEDAICLHAFYYAIWKRYGALPERYNWQL  
QAPDVLFYPLRPELVESTYLLYQATKNPFYLVHVGMDILQSLEKYTKVKCGYATLHHVIDK  
STEDRMESFFLSETCKYLYLLFDEDNPVHKSGETRYMFTTEGHIVSVDEHLREL PWKEFFS  
EEGGQDQGGKSVHRPKPHELKVINSSNCNRVPDERRYSPLKSIYMRQIDQMVGLI

>sp|Q9Y2G0|EFR3B\_HUMAN Protein EFR3 homolog B OS=Homo sapiens GN=EFR3B PE=1 SV=2

MYGVCGCCGALRPRYKRLVDNIFPEDPEDGLVKTNMEKLTIFYALSAPEKLDRI GAYLSER  
LIRDVGRHRYGYVCIAMEALDQLLMACHCQSINLFVESFLKMVAKLLESEKPNLQILGTN  
SFVKFANIEEDTPSYHRSYDFFVSRFSEMCHSSHDDLEIKTKIRMSGIKGLQGVVRKTVN  
DELQANIWD PQHMDKIVPSLLFNLQHVEEAESRSPSPLQAPEKEKESPAELAERCLRELL  
GRAAFGNIKNAIKPVL IHLDNHSLWEPKVFAIRCCKIIMYSIQPQHSHLVIQQLLGH LDA  
NSRSAATVRAGIVEVLSEAAVIAATGSVGPTVLEMFNTLLRQLRLSIDYALTGSYDGAVS  
LGTKIIKEHEERMFQEAVIKTVGSFASTLPTYQRSEVILFIMSKVPRPSLHQAVDTGR TG  
ENRNRLTQIMLLKSLQVSTGFQCNNMSALPSNFLDRLLSTALMEDAEIRLFVLEILIS  
FIDRHGNRHKFSTISTLSDISVLKLVKDKCSRQDTVFMKKHSQQLYRHIYLSCKEETNVQ  
KHYEALYGLLALISIELANEEVVVDLIRLVLAVQDVAQVNEENLPVYNRCALYALGAAYL  
NLISQLTTVP AFCQHIHEVIETRKKEAPYMLPEDVFVERPRLSQNL DGVVIELLFRQSKI  
SEVLGSGSYNSDRCLPYIPQLTDEDRLSKRRSIGETISLQVEVESRNSPEKEERVPAEE  
ITYETLKKAIVDSVAVEEQERERRRQVVEKFQKAPFEEIAAHCGARASLLQSKLNQIFEI  
TIRPPSPSGTITAAYGQPQNH SIPVYEMKFPDLCVY

>sp|Q99944|EGFL8\_HUMAN Epidermal growth factor-like protein 8 OS=Homo sapiens GN=EGFL8  
PE=1 SV=1

MGSRAELCTLLGGFSFLLLLIPGEGAKGGSRESQGVCSKQTLVVPLHYNESYSQPVYKP  
YLTLCAGRRICSTYRTMYRVMWREVRREVQQTHAVCCQGWKKRHPGALTCEAICAKPCLN  
GGVCVRPDQCECAPGWGGKHCHVDVDECRSITLCSHHCFNTAGSFTCGCPHDLVLGVDG  
RTCMEGSPEPPTSASILSVAVREA EKDERALKQEIHELGRGLERLEQWAGQAGAWVR AVL  
PVPPEELQPEQVAELWGRGDRIESLSDQVLLLEERLGACSCEDNSLGLGVNHR

>sp|Q06889|EGR3\_HUMAN Early growth response protein 3 OS=Homo sapiens GN=EGR3 PE=2 SV=1

MTGKLAEKLPVTMSSLLNQLPDNLYPEEIPSA LNLFSGSSDSVVHYNQMATENVMDIGLT  
NEKPNPELSYSGSFQAPGNKTVTYLGKFAFDSPSNWCQDNII SLMSAGILGVPPASGAL  
STQTSTASMVQPPQGDVEAMYPALPPYSNCGDLYSEPVSFHD PQGNPGLAYSPQDYQSAK  
PALDSNLFPMIPDYNLYHHPNDMGSIP EHKPFQGM DIPRVNPPPITPLETIKAFKDKQIH  
PGFGSLPQPPLTKPIRPRKYPNRPSKTPLHERPHACPAEGCDRRFSRSD ELTRHLRIHT  
GHKPFQCRICMRFSRS DHLTTHIRTHTGEKPFACEFCGRKFARS DERKRHAKIHLKQKE  
KKA EKGAPSASSAPPVSLAPVVTCA

>sp|Q05215|EGR4\_HUMAN Early growth response protein 4 OS=Homo sapiens GN=EGR4 PE=2 SV=3

MAVARGVGSPEPAPPQLYKWGGCGLGEPGSALERRGAAARGRCGRARAPRLPDSFPRGEC  
PKPGARAPRSVRCGEPLPPASPPPARPQAQRARPRAPHSRRRAMLHLSEFSEPDALLVKS  
TEGCCAEP SAELPRLPARDAPAAATGYPGAGDFLSWALNSCGASGDLADSCFLEGPAPTPP  
PGLSYSGSFFIQAVPEHPHDPEALFNLM SGILGLAPFPGPEAAASRSPLDAPFPAGSDAL  
LPGPPDLYSPDLGAAPFPEAFWEASPCAGAPSQCLYEPQLSPDPVKPLRAPPASPALDA  
VSAFKGPYAPWELLSVGAPGNCGSQGDYQAAP EARPFPVIGTKIEDLLISCPAELPAVPA  
NRLYP SGAYDAFPLAPGDLGEGAEGLPGLLTPPSGEGGSSGDGGEFLASTQPQLSPLGLR  
SAAAADFPKPLVADIPGSSGVAAPPVPPPPPTFPFQAKARRKGRRGGKCSTRFCPRPHA  
KAFACPVESCVRSFARSDELNRHLRIHTGHKPFQCRICLRNFSRS DHLTTHVRTHTGEKP

FACDVCGRRFARSDEKKRHSKVHLKQKARAEERLKGLGFYSLGLSFASL

>sp|Q8N3D4|EH1L1\_HUMAN EH domain-binding protein 1-like protein 1 OS=Homo sapiens  
GN=EHBPI1 PE=1 SV=2

MTSVWKRLQRVGKRAAKFQFVACYHELVLLECTKKWQPKLVVVWTRNRRIKSKAHSWQP  
GIQNPYRGTVVWMPENVDISVTLYRDPHVDQYEAKWTFIENESKGQRKVLATAEVDL  
ARHAGPVPVQVPVRLRLKPKSVKVVAELSLTSGVLLREGRATDDDMQSLASLMSVKPS  
DVGNLDDFAESDEDEAHGPGAPEARARVPQPDPSRELKTLCEEEEGQGRPQQAVASPSN  
AEDTSPAPVSAPAPPARTSRQGGERANEAGGQVGPEAPRPPETSPEMRSSRQPAQDTAP  
TPAPRLRKGS DALRPPVPQGEDEVPKASGAPPAGLGSARETQAQACPQEGTEAHGARLGP  
SIEDKSGDPFGRQRLKAEEMDTEDRPEASGVDTEPRSGGREANTKRSGVRAGEAEESSA  
VCQVDAEQRSKVRHVDTKGPEATGVMPEARCRGTPEAPRGSQGR LGVTRDEAPSGLSL  
PPAEPAGHSGQLGDLEGARAAAGQEREGAEVRGGAPGIEGTLEQGPSVGAISTRPQVSS  
WQGALLSTAQGAISRGLGGWEAEAGSGDLETETEVVGLVLTGTQEKEVEGSGFPETRTL  
EIEILGALEKEAARSRVLESEVAGTAQCEGLETQETEVGVIETPGTETEVLTGTQKTEAGG  
SGVLQTRTTIAETEVLVTQEISGDLGPLKIEDTIQSEMLGTQETEVEASRVPESEAEGTE  
AKILGTQEITARDSGVREIEAIEAESDILVAQEIEVG L LGVLTG IETGAAEGAILGTQEIA  
SRDSGVPGLEADTTGIQVKEVGGSEVPEIATGTAETEILGTQEIASRSSGVPGLESEVAG  
AQETEVGGSGISGPEAGMAEARVLMTRKTEIIVPEAEKEEAQTSVGQEAETRVGSALKYE  
ALRAPVTQPRVLGSQEAKAEISGVQGSETQVLRVQEAEGVWGMSEGKSGAWGAQEAEMK  
VLESPENKSGTFKAQEAAGVLGNEKGKEAEGSLTEASLPEAQVASGAGAGAPRASSPEK  
AEEDRRLPGSQAPPALVSSSQSLEWCQEVTTGYRGVRITNFTTSWRNGLAFCAILHRFY  
PDKIDYASLDPLNIKQNNKQAFDGF AALGVSRLLEPADMVLLSVPDKLIVMTYLCQIRAF  
CTGQELQLVLQLEGGGAGTYRVGSAQPSPPDDL DAGGLAQRLRGHGAEGPQEPKEAADRA  
DGAAPGVASRNAVAGRASKDGGAEAPRESRPAEVP AEGLVNGAGAPGGGGVRLRRPSVNG  
EPGSVPPRAHGSFSHVRDADLLKKRRSRLRNSSFSMDPDAGAMAAAEGQAPDPSP  
APGPPTAADSQQPPGSSPSEPPSPGEEAGLQRFQDTSQYVCAELQALEQEQRQIDGR  
AAEVEMQLRSLMESGANKLQEEVLIQEWFTLVNKKNALIRRQDQLQLLMEEQDLERRFEL  
LSREL RAMLAIEDWQKTS AQQHREQLLLEELVSLVNQRDELVRDL DHKERIALEEDERLE  
RGLEQRRRKLSRQLSRRECVLS

>sp|Q9H4M9|EHD1\_HUMAN EH domain-containing protein 1 OS=Homo sapiens GN=EHD1 PE=1 SV=2

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VLLVGQYSTGKTTFIRHLIEQDFPGMRIGPEPTDSFIAMHGPTGVVPGNALVVDPRR  
PFRKLN AFGNAFLNRFMCAQLPNPVLDSISI IDTPGILSGEKQRISRGYDFAAVLEWFAE  
RVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIETQQLMRVYGALMWSL  
GKIINTPEVVRVYIGSFWSHPLLIPDNRLFEAEQDLFKDIQSLPRNAALRKLNDLIK  
ARLAKVHAYIISSLKKEMPNVFGKESKKKELVNNLGEIYQKIEREHQISPGDFPSLRKM  
ELLQTQDFSKFQALPKLLDTVDDMLANDIARLMVMVRQEESLMPSQVVKGAFDGTMNG  
PFGHGYGEGAGEGIDDEVVVGDKPTYDEIFYTLSPVNGKITGANAKKEMVSKLPNTV  
LGKIWKLDVVDKGLLDDEEFALANHLIKVKLEGHELPADLPPLVPPSKRRHE

>sp|Q9NZC4|EHF\_HUMAN ETS homologous factor OS=Homo sapiens GN=EHF PE=2 SV=1

MILEGGVMNLNPGNNLLHQPPAWTDSYSTCNVSSGFFGGQWHEIHPQYWTYQVWEWLQ  
HLLDTNQLDANCIPFQEFDINGEHLCSMSLQEFTRAAGTAGQLLYSNLQHLKWNGQCSSD  
LFQSTHNVIVKTEQTEPSIMNTWKDENLYDTNYGSTVDLLDSKTFCRAQISMTTTSHP  
VAESPDMKKEQDPPAKCHTKKHNPGRGTHLWEIFIRDILLNPDKNPGLIKWEDRSEGVRFL



KSEAVAQLWGKKNNSSMTYEKLSRAMRYYYKREILERV DGRRLVYKFGKNARGWRENEN

>sp|P41970|ELK3\_HUMAN ETS domain-containing protein Elk-3 OS=Homo sapiens GN=ELK3 PE=1 SV=2

MESAITLWQFLQLLLDQKHEHLICWTSNDGEFKLLKAEVAKLWGLRKNKTNMNYDKLS  
RALRYYYDKNI IKKVI GQKFVYKFVSFPEILKMDPHAVEISRESLLLQSDCKASPEGRE  
AHKHGLAALRSTSRNEYIHSGLYSSFTINSLQNPPDAFKAIKTEKLEPPEDSPPVEEVR  
TVIRFVTNKTDKHVTRPVVSLPSTSEAAAASAFCLASSVSAKISSMLPNAASISSASPFS  
SRSPSLSPNSPLPSEHRSLFLEAACHSDSLEPLNLSSGSKTKSPSLPPKAKKPKGLEIS  
APPLVLSGTDIGSIALNSPALPSGSLTPAFFTAQTPNGLLLTPSPLLSSIHFWSSLS PVA  
PLSPARLQGPSTL FQFPTLLNGHMPVPIPSLDRAASPVLLSSNSQKS

>sp|Q8IYF1|ELOA2\_HUMAN RNA polymerase II transcription factor SIII subunit A2 OS=Homo sapiens GN=TCEB3B PE=1 SV=2

MAAGSTTLHAVEKLQVRLATKTEPKKLEKYLQKLSALPMTADILAETGIRKTVKRLRKHQ  
HVGDFARDLAARWKKLVLDNRNTRPGPDPEESASRQRFGEALQDQEKAWGFENATAPR  
SPSHSPEHRRTARRTPPGQQRPHPRSHSREPRAERKCPRIAPADSGRYRASPTRTAPLRM  
PEGPEPAAPGKQPGRGHTHAAQGGPLLCPGCQGQPQGKAVVSHSKGHKSSRQEKRLCAQ  
GDWHSPTLIREKSCGACLEETPRMPSWASARDRQPSDFKTDKEGGQAGSGQRVPALEEA  
PDSHQKRPQHSHSNKKRPSLDGRDPGNGTHGLSPEEKEQLSNDRETQEGKPPTAHLDRTS  
VSSLSEVEEVDMAEEFEQPTLSCEKYLTYDQLRKQKKKTGKSATTALGDKQRKANESKGT  
RESWDSAKKLPPVQESQSERLQAAGADSAGPKTVPSHVSELWDLSEAWMQANYDPLSDS  
DSMTSQAQPEALSSPKFREEAAFPGRRVNAKMPVYSGSRPACQLQVPTLRQQCAQVLRNN  
PDALSDVGEVPYVWLEPVLEGWRPDQLYRRKKDNHALVRETDELRRNHCFQDFKEEKPQE  
NKTWREQYLRLPDAPEQRLRVMTNIRSARGNPNGREAKMICFKSVAKTPYDTSRRQEK  
SAGDADPENGEIKPASKPAGSSHTPSSQSSSGGRDSSSILRWLPEKRANPCLSSSNEH  
AAPAAKTRKQAAKKVAPLMAKAIRDYKRRFSRR

>sp|Q9NXB9|ELOV2\_HUMAN Elongation of very long chain fatty acids protein 2 OS=Homo sapiens GN=ELOVL2 PE=1 SV=2

MEHLKAFDDEINAFLDNMFGRDSRVRGWFMLDSYLP TFFLTVMYLLSIWLG NKYMKNRP  
ALSLRGILTLYNLGITLLSAYMLAELILSTWEGGYNLQCQDLTSAGEADIRVAKVLWWYY  
FSKSVEFLDTIFFVL RKKTSQITFLHVYHHASMFNIWWCVLNWIPCGQSFFGPTLNSFIH  
ILMYSYYGLSVFSPMHKYLWKKYLTQAQLVQFVLTITHTMSAVVKPCGFPGCLIFQSS  
YMLTLVILFLNFYVQTYRKKPMKKDMQEPPAGKEVKNGFSKAYFTAANGVMNKAQ

>sp|Q9H5J4|ELOV6\_HUMAN Elongation of very long chain fatty acids protein 6 OS=Homo sapiens GN=ELOVL6 PE=1 SV=1

MNMSVLTLQEYEFKQFNENEAIQWMQENWKKSFLFSALYAAFIFGGRHLMNKRKAFELR  
KPLVLWSLTLAVFSIFGALRTGAYMVYILMTKGLKQSVCDQGFYNGPVSKFWAYAFVLSK  
APELGD TIFIILRKQKLIFLHWYHHITVLLYSWYSYKDMVAGGGWFM TMNYGVHAVMYSY  
YALRAAGFRVSRKFAMFITLSQITQMLMGCVVNYLVFCWMQHDQCHSHFQNI FWSSLMYL  
SYLVLFCHFFFEAYIGMRKTTKAE

>sp|O95163|ELP1\_HUMAN Elongator complex protein 1 OS=Homo sapiens GN=IKBKAP PE=1 SV=3

MRNLKLFRTLEFRDIQGPGNPQCFSLRTEQGTVLIGSEHGLIEVDPVSREVKNESLVAE  
GFLPEDGSGRIVGVQDLLDQESVCVATASGDVILCSLSTQQLECVGSVASGISVMSWSPD  
QELVLLATGQQTLIMMTKDFEPILEQQIHQDDFGESKFITVGWGRKETQFHGSEGRQAAF  
QMQMHEALPWDDHRPQVTRWGDGQFFAVSVVCPETGARKVRVWNREFALQSTSEPVAGL

GPALAWKPSGLIASTQDKPNQDIVFFEKNGLLHGHTLPFLKDEVKVNDDLWNADSSV  
LAVWLEDLQREESSIPKTCVQLWTVGNYHWYLKQSLSFSTCGKSKIVSLMWDPVTPYRLH  
VLCQGWHYLAYDWHWTDRSVGDNSSDLNVAVIDGNRVLVTVFRQTVVPPMCTYQLLF  
PHPVNQVTFLAHPQKSNDLAVLDASNQISVYKCGDCPSADPTVKLGAVGGSGFKVCLRTP  
HLEKRYKIQFENNEDQDVNPLKLGLLTWIEEDVFLAVSHSEFSRPSVIHHLTAASSEMDE  
EHGQLNVSSSAAVDGVIIISLCCNSKTKSVVLQADGQIFKYLWESPSLAIKPWKNSGGFP  
VRFPYPCTQTELAMIGEEECVLGLTDRCRFFINDIEVASNITSFAVYDEFLLLTTHSHTC  
QCFCLRDASFCTLQAGLSSNHVSHGEVLRKVERGSRIVTVVPQDTKLVLQMPRGNEVVH  
HRALVLAQIRKWLDKLMFKEAFECMRKLRINLNLIDHNPVKVFLGNVETFIKQIDSVNHI  
NLFFTELKEEDVTKTMYPAPVTSSVYLSRDPDGNKIDLVCAMRAVMESINPHKYCLSIL  
TSHVKTTPELEIVLQKVHELQGNAPSDPDVAEALKYLLHLVDVNELYDHSGLTYDF  
DLVLMVAEKSQKDPKEYLPFLNTLKKMETNYQRFTIDKYLKRYEKAIGHLSKCGPEYFPE  
CLNLIKDKNLYNEALKLYSPSSQQYQDISIAYGEHLMQEHMYEPAGLMFARCGAHEKALS  
AFLTCGNWKQALCAAQLNFTKDQLVGLGRTLAKGLVEQRKHIDAAMVLEECAQDYEEAV  
LLLLEGAAWEEALRLVYKYNRLDIIETNVKPSILEAQKNYMAFLDSQTATFSRHKRLLV  
VRELKEQAQQAGLDDEVPHGQESDLFSETSSVVGSEMSGKYSHSNSRISARSSKNRRKA  
ERKKHSLKEGSPLEDLALLEALSEVVQNTENLKDDEVYHILKVLFLFEFDEQGRELQKAFE  
DTLQLMERSLPEIWLTYQQNSATPVLGPNSTANSIMASYQQKTSVPVLDAELFIPPKI  
NRRTQWKLSLLD

>sp|Q6IA86|ELP2\_HUMAN Elongator complex protein 2 OS=Homo sapiens GN=ELP2 PE=1 SV=2

MVAPVLETSHVFCCPNRVRGVLNWSSGPRGLLAGFTSCSVLYDPLKRVVVTNLNGHTAR  
VNCIQWICKQDGSPSTELVSGGSDNQVIHWEIEDNQLLKAVHLQGHEGPVYAVHAVYQRR  
TSDPALCTLIVSAAADSAVRLWSKKGPEVMCLQTLNFGNGFALALCLSFLPNTDVPILAC  
GNDDCRIHIFAQQNDQFQKVLSCGHEDWIRGVEWAAFGRDFLASCSQDCLIRIWKLYI  
KSTSLETQDDDNIRLKENTFTIENESVKIAFAVTLETVLAGHENWVNAVHWQPVFYKDG  
V LQQPVRLLSASMDKTMILWAPDEESGVWLEQVRVGEVGGNTLGFYDCQFNEDGSMIIA  
HFGALHLWKQNTVNPREWTPDIVISGHFDGVQDLVWDPEGEFIITVGTDQTTRLFAPWKR  
KDQSQVTWHEIARPQIHGYDLKCLAMINRFQFVSGADEKVLRVFSAPRNFVENFCAITGQ  
SLNHVLCNQSDSLPEGATVPALGLSNKAVFQGDIASQPSDEEELLTSTGFEYQQVAFQPS  
ILTEPPTEDHLLQNTLWPEVQKLYGHGYEIFCVTCNSSKTLASACKAAKKEHAAIILWN  
TTSWKVQVQLVFHSLTVTQMAFSPNEKFLLA VSRDRTWSLWKKQDTISPEFEPVFSLFAF  
TNKITSVHSRIIWSCDWSPDSKYFFTGSRDKKVVVWGECDSTDDCIEHNIGPCSSVLDVG  
GAVTAVSVCPVLHPSQRYVVAVGLECGKICLYTWKKTQVPEINDWTHCVETSQSQSHTL  
AIRKLCWKNCSGKTEQKEAEGAEWLHFASCGEDHTVKIHRVNKCAL

>sp|O43402|EMC8\_HUMAN ER membrane protein complex subunit 8 OS=Homo sapiens GN=EMC8 PE=1 SV=1

MPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHTLFVDCIPL  
FHGTLALAPMLEVALTLIDSWCKDHSYVIAGYYQANERVKDASPNQVAEKVASRIAEGFS  
DTALIMVDNTKFTMDCVAPTIHVYEHENRWRCRDPHHDYCEDWPEAQRTSASLLDSRSY  
ETLVDFDNHLLDIRNDWTNPEINKAVLHLC

>sp|Q9NRM1|ENAM\_HUMAN Enamelin OS=Homo sapiens GN=ENAM PE=1 SV=3

MLVLRCLGTSFPKLDNLVPKGKMKILLVFLGLGNSVAMPMHMPMPGFSSKSEEMRY  
NQNFNMNGPHMAHLGPFFGNLPQQFPQYQMPMPWQPPPNTWHPRKSSAPKRHNKTDQTQ  
ETQKPNQTSKSKPPQKRPLKQPSHNQPQPEEEAQPQAFPPFGNGLFPYQQPPWQIPQRL

PPPGYGRPPISNEEGGNPYFGYFGYHGFGRPPYYSEMFQDFEKPKEEDPPKAESPGT  
EPTANSTVTETNSTQPNPKGSQGGNDTSPTGNSTPGLNTGNNPPAQNGIGPLPAVNASGQ  
GGPGSQIPWRPSQPNIRENHPYPNIRNFPGRQWYFTGTVMGHRQNRPFYRNQQVQRGPR  
WNFFAWERKQVARPGNPVYHKAYPPTSRGNYPNYAGNPANLRRKPQGPKNKHPVGTTVAPL  
GPKPGPVVRNEKIQNPKEKPLGPKEQIIIVPTKNPTSPWRNSQQYEVNKSNYKLPHSEGYM  
PVPNFNSVDQHENSYYPRGDSRKVPNSDGGTQSQNLPGKIVLGSRRMPYESETNQSELKH  
SSYQPAVYPEEIPSPAKEHFPAGRNTWDHQEISPPFKEDPGRQEEHLPHPSHGSRGSVFY  
PEYNPYDPRENSPYLRGNTWDERDDSPNTMGQKESPLYPINTPDQKEIVPYNEEDPVDPT  
GDEVFPQGNRWGEELSFKGGPTVRHYEGEQYTSNQKEYLPYSLDNPSKPREDFYYSEFY  
PWSPDENFPSYNTASTMPPPIESRGYYVNNAAGPEESTLFPSRNSWDHRIQAQGGQRRERP  
YFNRIWDQATHLQKAPARPPDQKGNQPYYSNTPAGLQKNPIWHEGENLNYGMQITRMNS  
PEREHSFPNFIPPSYPSGQKEAHLFHLSSQRGSCCAGSSTGPKDNPLALQDYTPSYGLAP  
GENQDTSPLYTDGSHTKQTRDIIISPTSILPGQRNSSEKRESQNPFRDDVSTLRRNTPCSI  
KNQLGQKEIMPFPEASSLQSKNTPCLKNDLGGDGNILEQVFEDNQLNERTVDLTPEQLV  
IGTPDEGSNPEGIQSQVQENESERQQQRPSNILHLPCFGSKLAKHHSSTGTPSSDGRQS  
PFDGDSITPTENPNTLVELATEEQFKSINVDPLDADEHSPFEFLQRGTNVQDQVQDCLLL  
QA

>sp|Q6UWT2|ENHO\_HUMAN Adropin OS=Homo sapiens GN=ENHO PE=2 SV=2  
MGAAISQGALIAIVCNGLVGFLLLLLLWVILCWACHSRSADVDSLSESPNSSPGPCPEKA  
PPPQKPSHEGSYLLQP

>sp|P61568|ENK11\_HUMAN Putative endogenous retrovirus group K member 11-1 Env polyprotein  
OS=Homo sapiens GN=ERVK11-1 PE=5 SV=1  
MPGAIDDHCPAQGEEGTAFNVTMGYKYPPLCLGHATRCIHLETQVWAAAYLLERLATGKW  
GHLVSGLSLCLPLRQMKRGVIGDTPYFYKPVGKLCPKNFEGPSKTLIWGDCVNSHAVVLK  
NDSYALVIDWAPKGYLKNTCSSGGGEFLEATYFISYWEDEDHHTLHRWFGSFFTLKWED  
KDITLHPQGLV

>sp|O42043|ENK18\_HUMAN Endogenous retrovirus group K member 18 Env polyprotein OS=Homo  
sapiens GN=ERVK-18 PE=1 SV=2  
MVTPVTWMDNPIEVYVNDVSVVPGPTDDRCPAKPEEEGMMINISIGYHYPPICLGRAPGC  
LMPAVQNWLVEVPTVSPNSRFTYHVMVSGMSLRPRVNCLQDFSYQRSCLKFRPKGKTCPKEI  
PKGSKNTEVLVWEECVANSVILQNNEFGTIIIDWAPRGQFYHNCSGQTQSCPSAQVSPAV  
DSDLTESLDKHKHKKLQSFYLWEWEEKGISTPRKIIISPVSGPEHPWLRLTVASHHIRI  
WSGNQTLTRYRKPFYITDLSILTVPLQSCVKPPYMLVGNIVIKPASQTITCENCRLF  
TCIDSTFNWQHRILLVRAREGMWIPVSTDRPWEASPSIHILTEILKGVLNRSKRFIFTLI  
AVIMGLIAVTATAAVAGVALHSSVQSVNFVYWQKNSTRLWNSQSSIDQKLASQINDLRQ  
TVIWMGDRMLTLEHHFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDIS  
KLKEQIFEASKAHLNLVPGTEAIIAGVADGLANLNPVTWIKTIRSTMIINLILIVVCLFCL  
LLVCRCTQQLRRDSIENG

>sp|P61570|ENK25\_HUMAN Endogenous retrovirus group K member 25 Env polyprotein OS=Homo  
sapiens GN=ERVK-25 PE=3 SV=1  
MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAAANYTYWAYVFPPLIRAVTWMD  
NPIEVYVNDVSVVPGPIDDRCPAKPEEEGMMINISIGYRYPPICLGTAPGCLMPAVQNWL  
VEVPIVSPISRFTYHVMVSGMSLRPRVNYLQDFSYQRSCLKFRPKGKPCPKKEIPKESKNTEV

LVWEECVANSAVILQNNEFGTIIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVIDSDLTESLD  
KHKHKKLQSFYPWEWGEKGISTPRPKIVSPVSGPEHPELWRLTVASHHIRIWSGNQTLET  
RDRKPFYTVDLNSSLTVPLQSCVKPPYMLVVGNIIVIKPDSQTITCENCRLTLCIDSTFNW  
QHRILLVRAREGVWIPVSMRPEASPSIHILTEVLKGVNRSKRIFITLIAVIMGLIAV  
TATGAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRL  
MSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLKEQIFKA  
SKAHLNLPVGTEAAGVADGLANLNPVTWVKTIGSTTIINLILILVCLFCLLLVCRCTQQ  
L

>sp|Q69384|ENK6\_HUMAN Endogenous retrovirus group K member 6 Env polyprotein OS=Homo sapiens GN=ERVK-6 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAAANYTYWAYVPFPPLIRAVTWMD  
NPTEVYVNDVWVPGPIDDRCPAKPEEEGMMINISIGYHYPPICLGRAPGCLMPAVQNW  
VEVPTVSPICRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFRPKGKPCPKEIPKESKNT  
EV LVWEECVANSAVILQNNEFGTIIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVIDSDLTESLD  
KHKHKKLQSFYPWEWGEKGISTPRPKIVSPVSGPEHPELWRLTVASHHIRIWSGNQTLET  
RDRKPFYTVIDLNSSLTVPLQSCVKPPYMLVVGNIIVIKPDSQTITCENCRLTLCIDSTFNW  
QHRILLVRAREGVWIPVSMRPEASPSVHILTEVLKGVNRSKRIFITLIAVIMGLIAV  
TATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRL  
MSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLKEQIFEA  
SKAHLNLPVGTEAAGVADGLANLNPVTWVKTIGSTTIINLILILVCLFCLLLVCRCTQQ  
LRRDSHRRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV

>sp|Q902F8|ENK8\_HUMAN Endogenous retrovirus group K member 8 Env polyprotein OS=Homo sapiens GN=ERVK-8 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAVANYTNWAYVPFPPLIRAVTWMD  
NPIEVYVNDVWVPGPIDDRCPAKPEEEGMMINISIGYRYPPICLGRAPGCLMPAVQNW  
VEVPTVSPISRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFRPKGKPCPKEIPKESKNT  
EV LVWEECVANSAVILQNNEFGTIIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVIDSDLTESLD  
KHKHKKLQSFYPWEWGEKRISTPRPKIVSPVSGPEHPELWRLTVASHHIRIWSGNQTLET  
RDRKPFYTVDLNSSLTLPLQSCVKPPYMLVVGNIIVIKPDSQTITCENCRLTLCIDSTFNW  
QHRILLVRAREGVWIPVSMRPEASPSVHILTEVLKGVNRSKRIFITLIAVIMGLIAV  
TATAAVAGVALHSSVQSVNFVNDGQKNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRL  
MSLEHRFQLQCDWNTSDFCITPQIYNDSEHHWDMVRRHLQGREDNLTLDISKLKEQIFEA  
SKAHLNLPVGTEAAGVADGLANLNPVTWVKTIGSTTIINLILILVCLFCLLLVCRCTQQ  
LRRDSHRRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV

>sp|Q6UWV6|ENPP7\_HUMAN Ectonucleotide pyrophosphatase/phosphodiesterase family member 7 OS=Homo sapiens GN=ENPP7 PE=1 SV=3

MRGLAVLLTVALATLLAPGAGAPVQSQGSQNKLLLVSFDGFRWNYDQDVDPNLDAMARD  
GVKARYMTPAFVTMTSPCHFTLVTKYIENHGVVHNMYNTTSKVKLPHYATLGIQRWWD  
NGSVPIWITAQRQGLRAGSFFYPGGNVTYQGVAVTRSRKEGIAHNYKNETEWRANIDTVM  
AWFTEEDLDLVTLYFGEPDSTGHRYGPESPERREMVRQVDRTVGYLRESIARNHLDRLN  
LIITSDHGMTTVDKRAGDLVEFHKFPNFTFRDIEFELLDYGPNGMLLPKEGRLEKVYDAL  
KDAHPKLHVYKKEAFPEAFHYANNPRVTPLLMYSDLGVIHGRINVQFNNGEHGFDNKDM

DMKTI FRAVGPSFRAGLEVEPFESVHVYELMCRLLGIVPEANDGHLATLLPMLHTESALP  
PDGRPTLLPKGRSALPPSSRPLLVMGLLGTVILLSEVA

>sp|Q8IYW4|ENTD1\_HUMAN ENTH domain-containing protein 1 OS=Homo sapiens GN=ENTHD1 PE=2  
SV=1

MAFRRQVKNFVKNYSDAEIKVREATSNDPWGPSSSLMLDISDLTFNTISLSEIMNMLWHR  
LNDHGKNWRHVYKSLTLM DYLIKNGSKKVIQHCREGFCNLQTLKDFQHIDEAGKDQGYII  
REKSKQVITLLMDEPLLCKEREVACRTRQRTSHSILFSKRQLGSSNSLTACTSAPTPDIS  
ASEKKYKLPKFGRLHNKRNVCKAGLKQEHCDVHLPTETMLSQETLPLKIHWKSTEDLM  
TFLDDDPPELLLATPPSIVSPITCLSEAEVCNLSGADAVPTLSENSPSGQRDVSLDKRS  
DGIFTNTVTENLLETPLEKQSAEGLKTLTILPACWSSKEEFISPDLRVSKSDSTFHNQA  
SVETLCLSPSFKIFDRVKEIVINKAYQKPAQSSIQMDDKILKTTTRVSTASEGASSFSPL  
SMSSPDLASPEKSAHLLSPILAGPSFWTL SHQQLSSTSFKDEDKTAKLHHSFASRGPVSS  
DVEENDSLNLLGILPNNSDSAKKNISHISSHWGEFSTQNVDDQFIPLSCSGFQSTKDFPQ  
EPEAKNSISVLLREVKRAIARLHEDLSTVIQELNVINNILMSMLNSSQISQSSQVPQSS  
EGSSDQI

>sp|Q9NQZ7|ENTP7\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 7 OS=Homo sapiens  
GN=ENTPD7 PE=2 SV=1

MARISFSYLCPASWYFTVPTVSPFLRQRVAFLGLFFISCLLLLMLIIDFRHWSASLPRDR  
QYERYLARVGELEATDTEDPNLNYGLVDCGSSGSRIFVYFWPRHNGNPHDLLDIKQMRD  
RNSQPVVKKIKPGISAMADTPEHASDYLRPLLSFAAAHV PVKKHKETPLYILCTAGMRLL  
PERKQLAILADLVKDLPLEFDFLFSQSAEVISGKQEGVYAWIGINFVLGRFDHEDESDA  
EATQELAAGRRTVGILDMGGASLQIAYEVPTSTSVLPKQEEAAKILLAEFNLGCDVQH  
TEHVYRVYVTTFLGFGGNFARQRYEDLVNLTNKNRLLGQKTGLSPDNPFDPCLPVGL  
TDVVERNSQVLHVRGRGDWVSCGAMLSPLLARSNTSQASLNGIYQSPIDFNNSEFYGFSE  
FFYCTEDVLRIGGRYHGPTFAKAAQDYCGMAWSVLTQRFKNGLFSSHADEHRLKYQCFKS  
AWMYQVLHEGFHFPYDYPNLRTAQLVYDREVQWTLGAILYKTRFLPLRDLRQEGVRQAHG  
SWFRLSFVYNHYLFFACILVLLAIFLYLLRLRRIHHRQTRASAPLDLLWLEEVVPMMGV  
QVGP

>sp|P16422|EPCAM\_HUMAN Epithelial cell adhesion molecule OS=Homo sapiens GN=EPCAM PE=1  
SV=2

MAPPQVLAFGLLLAAATATFAAAQEECVCENYKLAVNCFVNNNRQCQCTSVGAQNTVICS  
KLAACKLVMAEMNGSKLGRRAPGALQNDGLYDPDCDESGLFKAKQCNGTSMCWCVN  
TAGVRRTDKDTEITCSERVITYWIIIELKHKAREKPYDSKSLRTALQKEITTRYQLDPKF  
ITSILYENNVITIDLQNSSQKTQNDVDIADVAYYFEKDVKGESLFHSHKMDLTVNGEQL  
DLDPGQTLIIYYVDEKAPEFSMQGLKAGVIAVIVVVVIAVVAGIVVLVISRKKRMAKYEKA  
EIKEMGEMHRELNA

>sp|Q9HCE0|EPG5\_HUMAN Ectopic P granules protein 5 homolog OS=Homo sapiens GN=EPG5 PE=1  
SV=2

MAEAVKQRRAKAKASRTKTKEKKKYETPQREESSEVSLPKTSREQEIPSLACEFKGDHL  
KVVTDSQLQDDASGQNESEMFVPLTSLTISNEESLTCNTEPPKEGGEARPCVGDSAVTP  
KVHPGDNVGTVETPKNFTVEENMSVQGGLSESAPQSNFSYTPAMENIQVRETQNSKE  
DKQGLVCSSEVPQNVGLQSSCPAKHGFQTPRVKKLYPQLPAEIIAGEAPALVAVKPLLRSE  
RLYPELPSQLELVPFTKEQLKILEPGSWLENVESYLEEFDSMAHQDRHEFYELLLNYSRC  
RKQLLLAEAEELLTSLSDCQNAKSRLWQFKEEQMSVQGICADQVKVFSYHRYQRMENNA

LVELKKLFDAKSEHLHQTLALHSYTSVLSRLQVESYIYALLSSSAVLRSSAIHQGRASK  
QTESIPSDLCQLKECISVLFMFTRRVNEDTQFHDDILLWLQKLVSVLQRVGCPGDHLFLL  
NHILRCPAGVSKWAVPFIQIKVLHNPSGVFHFMQSLALLMSPVKNRAEFMCHMKPSEKRP  
SSSGPGSGTWTLVDEGGEDEDEPETSWillNEDDLVTILAQFPFHELFQHLLGFKAKGDY  
LPETTRPQEMMKIFAFANSLVELLAVGLETFNRARYRQFVKRIGYMIRMTLGYVSDHWAQ  
YVSHNQSGSLAQQPYSMEKLQVEFDELFLRAVLHVLKAKRLGIWLFMSEMPFGTSLVQML  
WKLfYLMHQVESENQQLSSSLQPAQCKQQLQDPEHFTNFEKCLSSMNSSEEICLLTTFa  
QMAQARRTNVDEDFIKIIVLEIYEVSYVTLSRETFSKVGRELLGTITAVHPEIISVLLD  
RVQETIDQVGMVSLYLFKELPLYLWQPSASEIAVIRDWLLNYNLTVVKNKLACVILEGLN  
WGFAKQATLHLDQAVHAEVALMVLEAYQKYLAQKPYAGILSESMKQVSYLASIVRYGETP  
ETSFNQWAWNLILRLKLHKNDYGIQPNCPAVPFSVTVPDMTESPTFHPLLKAVKAGMPIG  
CYLALSMTAVGHSIEKFAEGIPLLGILVQSRHLRTVVHVLDKILPLFYPCQYYLLKNEQ  
FLSHLLLFLHLDGVPQGVTTQQVTHKVAQHLTGASHGDNVKKLLNSMIQAHISVSTQPNEV  
GPVAVLEFVWQALISQHLWYREQPILFLMDHLCKAAFQLMQEDCIQKLLYQQHKNALGYH  
CDRSLSSLSVSWIVAGNITPSFVEGLATPTQVFWFAWTVLNMESIFEEDSQLRRVIEGELV  
INSAFTPDQALKKAQTQLKLPIVPSLQRLLIYRWAHQALVTPSDHPLLPLIWQKFLLYL  
HRPGPQYGLPIDGCIGRRFQSPAHLNLLKEMKRRLTEVADFHHAAASKALRVPAEGSEGL  
PESHSGTPGYLTSPELHKELVRLFNVIILWLEDENFQKGDYIPSLPKHYDIHRLAKVMQ  
NQQDLWMEYLNMERIYHEFQETVGLWTQAKLESHSTPCSLSVQLDFTDPLLAKERVLSNL  
RKHEAPQPPLALHPTKPPVPVISSAVLLSQKDATQLVCTDLNLLQQQARTAAALRESQQVA  
LDGELLDTMPKQYVNREEQTTLHLECRGSSGKKCQGAAVTVQFEGMHKNEAISQQLHVL  
RKEVKQLQAEAAKPPSLNIVEAAVHAENLITALVNAYKLQPTPGIQKVGISLFFTIVDYV  
SDETQRHPPTRQFFTSCIEILGQVFIGIKSECRKVLETILKNSRLCSLLSPFFTPNAAP  
AEFIQLYEQVVKFLSEDNSDMIFMLLTKFDLKQWLSATKPPLSDRTRLLESIH LALTAWG  
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CAPSCQQAASSTEGAVLPSSSDALLSDKQVMETIQWLSDFFYKLRLSKMDFKSFGLFSKW  
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VQFLSTLEQNGKITLAVLEQEMSKLLDDIIVFNPPDMDSQTRHMASSLFMEVLMNMNA  
TIPTAEFLRGSIRTWIGQKMHGLVVLPLLTAAQSLASVRHMAETTEACITAYFKESPLN  
QNSGWGPILVSLQVPELTMEEFLEQELTLGSYLTLYVYLLQCLNSEQTLRNEMKVLLILS  
KWLEQVYPSSVEEEAKLFLWWHQVLQLSLIQTEQNDSVLTESVIRILLVQSRQNLVAEE  
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LNALESMASSKQYVEYQDQILQATQFIRHPGHCLQDGKSFLALLVNCLYPEVHYLDHIR  
>sp|P54756|EPHA5\_HUMAN Ephrin type-A receptor 5 OS=Homo sapiens GN=EPHA5 PE=1 SV=3  
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AVFPDTITGADSSQLLEVSGSCVNHSVTDEPPKMHCSAEGEWLVPIGKCMCKAGYEEKNG  
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PRNAISNVNETSVFLEWIPPADTGGRKDVSYIACKKCNSHAGVCEECCGGHVRYLPRQSG  
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PIRWTapeaIAFRKFTSASDVWSYGIVMWEVVSyGERPYWEMTNQDVIKAVEEGYRLPSP  
MDCPAALYQLMLDCWQKERNRPKFDEIVNMLDKLIRNPSSLKTLVNASCRVSNLLAEHS  
PLGSGAYRSVGEWLEAIKMGRYTEIFMENGYSSMDAVAQVTLEDLRRLGVTLVGHQKKIM  
NSLQEMKVQLVNGMVPL

>sp|Q9UF33|EPHA6\_HUMAN Ephrin type-A receptor 6 OS=Homo sapiens GN=EPHA6 PE=2 SV=3

MGGCEVREFLQFGFFLPLLTAWPGDCSHVSNNQVLLDttTVLGELGWKTYPLNGWDAI  
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CKETfNLfYMEsDESHGIKfKPNQYTKIDTIAADESFTQMDLGDRILKLNTeIREVGPIE  
RKGFYLAfQDIGACIALVSVRVfYKCPFTVRNLAMFPDTIPRVDSSSLVEVRGSCVKSA  
EERDTPKLYCGADGDLVPLGRICSTGYEEIEGSCHACRPgFYKAFAGNTKCSKCPPHS  
LTYMEATSVCQCEKGYfRAEKDPPSMACTRPPSAPRNvVFNINeTALILEWSPPSDTGGR  
KDLTYSVICKKGLDTSQCEDCGGLRFIPRHTGLINNSVIVLDFVSHVNYTFEIEAMNG  
VSELSfSPKfTaitVTTDQDAPSLIGVVRKDWasQNSIALSWQAPAFsNGAILDYEIKY  
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RWTapeaIAyRKfSSASDAWSYGIVMWEVMSyGERPYWEMSNQDVILSIEEGYRLPAPMG  
CPASLHQLMLHCWQKERNHRPKfTDIVSFLDKLIRNPSALHTLVEDILVMPESpGEVPEY  
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>sp|Q15375|EPHA7\_HUMAN Ephrin type-A receptor 7 OS=Homo sapiens GN=EPHA7 PE=1 SV=3

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ETfNLyyyETDyDGRNIRENLVVKIDTIAADESFTQGDlGERKMKLNTeVREIGPLSKK  
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FSDKEGSSRCECEDGYRAPSdPPYVACTRPPSAPQNLIFNINQTTVSLEWSPPADNGGR  
NDVTYRILCKRCSWEQGEcVPCGSNIGYMPQQTGLEdNYVTVMdLLAHANYTFEVEAVNG  
VSDLSRSQRLFAAVSITTGAAPSQVSGVMKERVlQRSVELSWQEPEHPNGVITEYEIKY  
YEKDQRERTYSTVKTKSTSASINNLKPGTVYVFQIRAFtAAGYGNySPRLDVATLEeATG  
KMFEATAVSSEQNpVIIIAVAVAGTIILVfMVfGFIIGRRHCGYSKADQEGDEELYfHF  
KfPGTKTYIDpETYEDPNRAVHQfAKELDASCIKiERVIGAGEFGEVCSGRLKLPgKRDV  
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AFLRKHDGQFTVIQLVGMRLGIAAGMRYLADMGYVHRDLAARNILVNSNLVCKVSDFGLS  
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SNQDVKAIEEGYRLPAPMDCPAGLHQLMLDCWQKERAERPKEQIVGILDKMIRNPNSL  
KTPLGTCSRPI SPLLDQNTPDFTTFCVGEWLQAIKMERKDNFTAAAGYNSLESVARMTI  
EDVMSLGITLVGHQKKIMSSIQTMRQMLHLHGTGIQV

>sp|Q9H6B9|EPHX3\_HUMAN Epoxide hydrolase 3 OS=Homo sapiens GN=EPHX3 PE=2 SV=1

MPLEVVTALLAPSRLSLKLLRAFMWSLVFSVALVAAAVYGCIALTHVLCRPRRGCCGRRR  
SASPACLSDP SLGEHGLNLKSSGLRLHYVSAGRGNGPLMLFLHGFENWFSWRYQLREF  
QSRFHVVAVDLRGYGPSDAPRDVDCYTIDLLLVDIKDVLGLGYSKCILVAHDWGALLAW  
HFSIYYPSLVERMVVVS GAPMSVYQDYSLHHISQFFRSHYMFLFQLPWLPEKLLSMSDFQ  
ILKTTLTHRKTGIPCLTPSELEAFLYNFSQPGGLTGPLNYRNLFRNFPLEPQELTTPTL  
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>sp|Q9H201|EPN3\_HUMAN Epsin-3 OS=Homo sapiens GN=EPN3 PE=2 SV=1

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VNVREKVKQVMALLKDEERLRQERTHALKTKERMALEGIGIGSGQLGFSRRYGEDYSRSR  
GSPSSYNSSSSSPRYTSDLEQARPQTSGEELQLQLALAMSREEAEKPVPPASHRDEDLQ  
LQLALRLSRQEHEKEVRSWQGDGSPMANGAGAVVHHQRDREPEREERKEEEKLKTSQSSI  
LDLADIFVPALAPPSTHCSADPWDIPGFRPNTEASGSSWGSPADPWSPIPSGTVLSRSQP  
WDLTPMLSSSEPWGRTPVLPAGPPTDPWALNSPHHKL PSTGADPWGASLETSDTPGGAS  
TFDPFAKPPESTETKEGLEQALPSGKPSSPVELDLFGDPSPSSKQNGTKEPDALDLGILG  
EALTQPSKEARACRTPE SFLGPSASSLVNLD SLVKAPQVAKTRNPFLTGLSAPSPTNPF  
GAGEPGRPTLNQMRTGSPALGLAGPGV GAPLGSM TYSASLPLPLSSVPAGLTLPASVSVFP  
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>sp|P42566|EPS15\_HUMAN Epidermal growth factor receptor substrate 15 OS=Homo sapiens  
GN=EPS15 PE=1 SV=2

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DTDGKILNKQEFFVALRLVACAQNGLEVSLSSLNLAVPPPRFHDTSPLLISGTSAAEL  
PWAVKPEDKAKYDAIFDSLSPVNGFLSGDKVKPVLLNSKLPVDILGRVWELSDIDHDGML  
DRDEFAMFLVYCALEKEPVMSLPPALVPPSKRKTWVVS PAEKAKYDEIFLKTDKDMD  
GFVSGLEVREIFLKTGLPSTLLAHIWSLCDTKDCGKLSKDQFALAFHLISQKLIGIDPP  
HVLTPEMIPPSDRASLQKNIIGSSPVADFS AIKELDTLNEIVDLQREKNNVEQDLKEKE  
DTIKQRTSEVQDLQDEVQRENTNLQKLQAQKQVQELLDELDEQKAQLEEQLKEVRKKCA  
EEAQLISSLKAELTSQESQISTYEEELAKAREELSRLQQETAEELESVESGKAQLEPLQQ  
HLQDSQQEISSMQMKLMEMKDLENHNSQLNWCSSPHSILVNGATDYCSLSTSSSETANLN  
EHVEGQSNLESEPIHQESPARSSPELLPSGVTDENEVTTAVTEKVCSELDNNRHSKEEDP  
FNVDSSSLTGPVADTNLDFQSDPFVGSDFKDDPFGKIDPFGGDPFKGSDPFASDCFFR  
QSTDPPFATSSTDPPFAANNSSITSVETLKHNDPFAPGGTVVAASDSATDPFASVFGNESF  
GGGFADFSTLSKVNNEPFRSATSSSVSNVITKNVFEETSVKSEDEPPALPPKIGTPTR  
PCPLPPGKRSINKLSDPDPFKLNDPFPFPFGNDSPKEKDPEIFCDPFTSATTTTNKEADP  
SNFANFSAYPSEEDMIEWAKRESEREEEQRLARLNQQEQEDLELAIALSKSEISEA

>sp|Q5T890|ER6L2\_HUMAN DNA excision repair protein ERCC-6-like 2 OS=Homo sapiens  
GN=ERCC6L2 PE=1 SV=2

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DNGDSIPYITINRYLRDYQREGTRFLYGHYIHGGGICLGDDMGLGKTVQVISFLAAVLHKK  
GTREDIENNMPEFLRLSRMKKEPLSSTAKKMFLIVAPLSVLYNWKDELDTWGYFRVTVLHG  
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ALKCNVRIGLTGTILQNNMKELWCVMWAVPGLLGSGTYFKKQFSDPVEHGQRHTATKRE  
LATGRKAMQRLAKKMSGWFLRRTKTLIKDQLPKKEDRMVYCSLTDFQKAVYQTVLETEDV  
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QQETLIKRICDQVFSRFPDFVQKSKDAAFETLSDPKYSGKMVLQQLLNHCRKNRDKVLL  
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QLHCVVVGSENAKRYFEAVQGSKEHQGELFGIHNLFKFRSQGSCLTKDILEREQQVEAGI  
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CILQNVTESESDVICPTQYTTERFPDINSIRFKPPLEGSEDETEHTVKTRNNDNSRNTD  
DKRNGIISKKLSPENTTLKSIKRRKGTSDISDESDDIEISSKSRVRKRASSLRFKRIKET  
KKELHNSPKTMNKTNQVYAANEDHNSQFIDYSSSDESLSVSHFSFSKQSHRPRTIRDRT  
SFSSKLPSHNKKNSTFIPRKPMKCSNEKVVNQEQSYESMDKFLDGVQEVAYIHSNQNVIG  
SSKAENHMSRWAHHDVFELKQFSQLPANIAVCSSKTYKEKVDADTLPHTKKGQQPSEGS  
SLPLYISNPVNQKKKKVYHTNQTTFIIGETPKGIRRKQFEEMASYFNSSSVNEFAKHITN  
ATSEERQKMLRDFYASQYPEVKEFFVDSVSQFNSSFEKGEQRTRKSKDKRESLIKPRLS  
DSETLSFKDSTNKISQVCSLKYKRKSVKFQNHISYREEVFFNDAETKSPVSSTQEIDS  
GKNSQASEDTVTSRSLNSESETRERRENTMKDQQLTRTGISRKEPLLKLENKKIENPV  
LENTSVISLLGDTSLDDLFKSHGNSPTQLPKKVLSGPMEKAKQRPKDFWDILNEQNDES  
LSKLTDLAVIETLCEKAPLAAPFKRREEPATSLWKSNEKFLWKKFSPSDTDENATNTQST  
T

>sp|P60509|ERB1\_HUMAN Endogenous retrovirus group PABLB member 1 Env polyprotein OS=Homo sapiens GN=ERVPA1B-1 PE=2 SV=1

MDPLHTIEKVPARRNIHDRGHQHRMGDGTGPRPKISVQQMTRFSLIIFFLSAPFVNAS  
TSNVFLQWAHSYADGLQQGDPCWVCGSLPVTNTMELPWWVSPLQGDWVFFQSFIGDLKQ  
WTGAQMTGVTRKNISEWPINKTLNEPGHDKPFSVNETRDKVIAFAIPLDITKVFVQTSRP  
QNTQYRNGFLQIWDGFIWLTATKGHLSQIAPLCWEQRNHSNDNPNTRVMGWIPPGQCR  
HTILLQQRDLFATDWSQQPGLNWPYAPNGTQWLCSPNLWPWLP SGWLGCCCTLGIPWAQGRW  
VKTMEVYPYLPHVNVQGTIAIVHRNDHLPTIFMPSVGLGTVIQHIEALANFTQRALNDSL  
QSISLMNAEVEYMHEDILQNRMALDILTAAEGGTCALIKTECCVYIPNNSRNISLALED  
CRQIQVISSSALS LHDWIASQFSGRPSWWQKILIVLATLWSVGIALCCGLYFCRMFSQHI  
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>sp|Q15303|ERBB4\_HUMAN Receptor tyrosine-protein kinase erbB-4 OS=Homo sapiens GN=ERBB4 PE=1 SV=1

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GNLEITSIEHNRDLSFLRSVREVTGYVLVALNQFRYLPLENLRIIRGTKLYEDRYALAIF  
LNYRKDGNFGLQELGLKNLTEILNGGVYVDQNKFLCYADTIHWQDIVRNPWPSNLTLVST  
NGSSGCGRCHKSCGTGRCWGPTENHCQTLTRTVCAEQCDGRCYGPYVSDCCHRECAGGCSG  
PKDTCDFACMNFNDSGACVTQCPQTFVYNPTTFQLEHNFNAKYTYGAFVCVKKCPHNFVVD

SSSCVRACPSSKMEVEENGIMCKPCTDICPKACDGIGTGLMSAQTVDSNIDKFINCT  
KINGNLIFLVTGIHGDYPYNAIEAIDPEKLNVFRTVREITGFLNIQSWPPNMTDFSVFSNL  
VTIGGRVLYSGLSLILKQQGITSLSQFQSLKEISAGNIYITDNSNLCYYHTINWTTLFST  
INQRIVIRDNRKAENCTAEGMVCNHLCSSDGCWGPGPDQCLSCRRFSRGRICIESCNLYD  
GEFREFENGSI CVECDPQCEKMEDGLLTCHGPGPDNCTKCSHFKDGPNCVEKCPDGLQGA  
NSFIFKYADPDRECHPCHPNCTQGCNGPSTSHDCIYYPWTGHSTLPQHARTPLIAAGVIGG  
LFILVIVGLTFAVYVRRKSIKKKRALRRFLETTELVEPLTPSGTAPNQAQLRILKETELKR  
VKVLGSGAFGTVYKGIWVPEGETVKIPVAIKILNETTGPKANVEFMDEALIMASMDPHL  
VRLLGVCLSPTIQLVTQLMPHGCLLEYVHEHKDNIGSQLLLNWCQVIAKGMMYLEERRLV  
HRDLAARNVLVKSPNHVKITDFGLARLLEGDEKEYNADGGKMPIKWMALCIIHYRKFTHQ  
SDVWSYGVTIWELMTFGGKPYDGIPTREIPDLLEKGERLPQPPICTIDVYMMVKCWMID  
ADSRPKFKELAAEFMRMARDPQRYLVIQDDRMKLPSPNSKFFQNLDEEDLEDMMDAE  
EYLVPQAFNIPPIYTSRARIDSNRSEIGHSPPPAYTPMSGNQFVYRDGGFAAEQGVSV  
YRAPSTIPEAPVAQGATAEIFDDSCNGTLRKPVAPHVQEDSSTQRY SADPTVFAPERS  
PRGELDEEGYMTMRDKPKQEYLNPEENPFVSRRKNGDLQALDNPEYHNASNGPPKAED  
EYVNEPLYLNTFANTLGKAEYLKNNILSMPEKAKKAFDNPDYWNHSLPPRSTLQHPDYLQ  
EYSTKYFYKQNGRIRPIVAENPEYLSEFSLKPGTVLPPPPYRHRNTVV

>sp|043731|ERD23\_HUMAN ER lumen protein-retaining receptor 3 OS=Homo sapiens GN=KDEL3  
PE=2 SV=1

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TVMKVVFLLCAYVTVYMIYKFRKTFDSSENDTRLEFLLVPVIGLSFLENYSFTLLEILW  
TFSIYLESVAAILPQLFMISKTGEAETITTHYLFFLGLYRALYLANWIRRYQTENFYDQIA  
VVGVVQTIFYCDFFYLYVTKVLKGKKLSLPMPI

>sp|014944|EREG\_HUMAN Proepiregulin OS=Homo sapiens GN=EREG PE=1 SV=1

MTAGRRMEMLCAGRVPALLLCLGFHLLQAVLSTTVIPSCIPGESSDNCTALVQTEDNPRV  
AQVSITKSSDMNGYCLHGQCIYLDMSQNYCRCEVGTYGVRCEHFLLTVHQPLSKEYVA  
LTVILIIILFLITVVGSTYYFCRWYRNRKSKEPKKEYERTSGDPELPQV

>sp|P84090|ERH\_HUMAN Enhancer of rudimentary homolog OS=Homo sapiens GN=ERH PE=1 SV=1

MSHTILLVQPTKRPEGRTYADYESVNECMEGVCKMYEEHLKRMNPNSPSITYDISQLFDF  
IDDLADLSCLVYRADTQTYQPYNKDWIKEKIYVLLRRQAQQAGK

>sp|A8K979|ERI2\_HUMAN ERI1 exoribonuclease 2 OS=Homo sapiens GN=ERI2 PE=2 SV=2

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E FPAVLLNTSTGQIDSEFQAYVQPQEHPIlsefcmeltGIKQAQVDEGVPLKICLSQFCKW  
IHKIQQQKNIIFATGISEPSASEVKLCAFTWSDWDLGVCLEYECKRKQLLKPVFLNSWI  
DLRATYKLFYRRKPKGLSGALQEVGIEFSGREHSGLDDSRNTALLAWKMIRDGCVMKITR  
SLNKVPTKKNFSILARNLNTIQVEEMSACNISIQGPSIYNKEPKNIINPHEKVQMSICA  
NSPIKAQQDQLQVKNNIKASLHNKSSLPLFNTKSSTSVGQLQSPTLNSPIYMQKGKNE  
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ENVDCTVPI SDSL EISFN SGERLMVLKELEMSSHENFGDIEETPQKSETSKSIVYKSPH  
TTIYNVKEAKDPGSDISAFKLPEHKSSTFN RVNANMSHPLVLGKHPLLSGGTKRNP CSPQ  
AFPPAKKQPFTIHEEKPTSSDCSPVRSSSWRRLPSILTSTVNLQEPWKS GKMT PPLCKCG  
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TFSSPETSHICDRNLSISTKNSLRLRPSMRN

>sp|A1L162|ERIC2\_HUMAN Glutamate-rich protein 2 OS=Homo sapiens GN=ERIC2 PE=1 SV=1

METVNEPETGEVSKDAVIVKQEKNN EYCLQDIDDKLSESAEDDGEDDTNDEDDDEDSNPK  
KNTQAPLELMAEFLRAEMAREYQLAKKLCQMIL IYEPENPEAKEFFTLIEEMLLMEKTQN  
HEQDGENSDEDEDSSGESKGESDEELSDESSDEGEDGS

>sp|076042|ERIT1\_HUMAN Putative uncharacterized protein encoded by ERC2-IT1 OS=Homo sapiens GN=ERC2-IT1 PE=5 SV=2

MLACFPCLRRKMPCLLKVADAGCSVGLGKVHC SCHLPNPRVLRHCDILTGVLTGLDMS  
CHACLSAGTGLGEELVGLGPGSTCLVKHLWLLFPCHRLASQNYSDSLAQQWSFSLIMWL  
CNREREIFMSKCAKCI

>sp|Q1W209|ESRG\_HUMAN Embryonic stem cell-related gene protein OS=Homo sapiens GN=ESRG PE=2 SV=2

MTLFSDSARLHPGEINSLVAHTKPVWWSLHTDAHEIWC RSDRGTSLGRSIPCPPALCSV  
RKIHLRPQVLRPTSPRNISPISNPVSGFLFLCSPTS LTIPQPLSPFNLGATLQSLPSLNF  
NSFHSLVETKETCFIREPKTPAPVTDWEGSLPLVFNHCRDASLISFRPRRDACLGPSPL  
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>sp|Q6NXG1|ESRP1\_HUMAN Epithelial splicing regulatory protein 1 OS=Homo sapiens GN=ESRP1 PE=1 SV=2

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EASKKNVLLPECFYSFFDLRKEFKKCCPGSPDIDKLDVATMTEYLNFEKSSSVSRYGASQ  
VEDMGNIILAMISEPYNHRFSDPERVNYKFESGTCSKMELIDDNTVVRARGLPWQSSDQD  
IARFFKGLNIAKGGAALCLNAQGRRNGEALVRFVSEHRDLALQRHKHHMGTRYIEVYKA  
TGEDFLKIAGGTSNEVAQFLSKENQVIVRMGLPFTATAEEVVAFFGQHCPITGGKEGIL  
FVTYPDGRPTGDAFVLFACEEYAQNALRKHKDLLGKRYIELFRSTAAEVQQVLNRFSSAP  
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LNHQGRPSGDAFIQMSADRAFMAAQKCHKKNMKDRYVEVFQCSAEEMNFVLMGGTLNRN  
GLSPPPCKLPCLSPPSYTFPAPAAV IPTEAAIYQPSVILNPRALQPSTAYYPAGTQLFMN  
YTAYYPSPPGSPNSLGYFTAANLSGVPPQPGTVVRMQGLAYNTGVKEILNFFQGYQYAT  
EDGLIHTNDQARTLPKEWVCI

>sp|Q9H6T0|ESRP2\_HUMAN Epithelial splicing regulatory protein 2 OS=Homo sapiens GN=ESRP2 PE=1 SV=1

MTPPPPPPPPPGPDPAADPAADPCPWPGLVVLFGATAGALGRDLGSDETDLILLVWQV V  
EPRSRQVGTLHKSLVRAEAAALSTQCREASGLSADSLARAEPLDKVLQQFSQLVNGDVAL  
LGGGPYMLCTDGQQLLRQVLHPEASRKNLVLPDMFFSFYDLRREFHMQHPSTCPARDLTV  
ATMAQGLGLETDATEDDFGVWEVKTMAVILHLLKEPSSQLFSKPEVIKQKYETGPCSDS  
TVPCPYSSKADVVDSETVVRARGLPWQSSDQDVARFFKGLNVARGGVALCLNAQGRRNGE  
ALIRFVDSEQRDLALQRHKHHMGVRYIEVYKATGEEFVKIAGGTSLEVARFLSREDQVIL  
RLRGLPFSAGPTDVLGFLGPECPVTGGTEGLLFVRHPDGRPTGDAFALFACEELAQAALR  
RHKGMLGKRYIELFRSTAAEVQQVLNRYASGPLLPTLTAPLLPIPFPLAPGTGRDCVRLR  
GLPYTATIEDILSFLGAAAADIRPHGVHMLNQQGRPSGDAFIQMTSAERALAAAQRCHK  
KVMKERYVEVVPSTEEMSRVLMGGTLGRSGMSPPPCKLPCLSPPTYTTFQATPTLIPTE  
TAALYPSSALLPAARVPAAPTPVAYYPGPATQLYLN YTAYYPSPPVSPTTVGYLTTPTAA  
LASAPTSVLSQSGALVRMQGPYTAGMKDLLSVFQAYQLPADDYTSMPVGDPPRTVLQA  
PKEWVCL

>sp|AOFGR8|ESYT2\_HUMAN Extended synaptotagmin-2 OS=Homo sapiens GN=ESYT2 PE=1 SV=1

MTANRDAALSSHRHPGCAQRPTPTFASSSQRRSAFGDDGNFPGLGERSHAPGSRLGAR  
RRAKTARGLRGHRQRGAGAGLSRPGSARAPSPRPGGPENPGGVLSVELPGLLAQLARSF  
ALLLPVYALGYLGLSFSWVLLALALLAWCRRSRGLKALRLCRALALLEDEERVVRLGVRA  
CDLPAWVHFPDTERAEWLNKTVKHMWPFICQFIEKLFRETIEPAVRGANTHLSTFSFTKV  
DVGQQPLRINGVKVYTENVDKRQIILDQLISFVGNCEIDLEIKRYFCRAGVKSIIHGTM  
RVILEPLIGDMPLVGALSIFFLRKPLLEINWTGLTNLLDVPGLNGLSDTIILDIISNYLV  
LPNRITVPLVSEVQIAQLRFPVPKGVLRHIFIEAQLQGKDTYLGKLVKGKSDPYGIIRV  
GNQIFQSRVIKENLSPKWNEVYEALVYEHQGELEIELFDEDPKDDFLGSLMIDLIEVE  
KERLLEWFTLDEVPGKGLHLRLEWLTMPNASNLDKVLTDIKADKDQANDGLSSALLIL  
YLDARNLPSGKKISSNPVQMSVGHKAQESKIRYKTNEPVVEENFTFFIHNPKRQDL  
EVEVRDEQHQCSSLGNLKVPLSQLLTSEDMTVSQRFQLSNSGPNSTIKMKIALRVLHLEKR  
ERPPDHQHSQVSRVSKGRKTSIKSHMSGSPGPGSNTAPSTPVIGGSDKPGMEEKA  
QPPEAGPQGLHDLGRSSSSLLASPGHISVKEPTPSIASDISLPIATQELRQRLRQLENGT  
TLGQSPGLGQIQLTIRHSSQRNKLIVVHACRNLIASFEDGSDPYVRMYLLPDKRRSGRRK  
THVSKKTLNPVFDQSFDFSLSPEVQRRTLDVAVKNSGGFLSKDKGLLGKVLVALASEEL  
AKGWTQWYDLTEDGTRPQAMT

>sp|Q9NY74|ETAA1\_HUMAN Ewing's tumor-associated antigen 1 OS=Homo sapiens GN=ETAA1 PE=1  
SV=2

MSRRRKHDDSPSPKKTPHKTVAEECGSVVEPGRRRLRSARGSWPCGAREGPPGPVRQRE  
QPPTAALCSKSNPEERYETPKRALKMDSLSSSFSPNDPDGQNDIFWDQNSPLTKQLGKG  
RKKQIYTTDSDEISHIVNRIAPQDEKPTTNSMLDMWIGETAIPCTPSVAKGKSRAKISCT  
KLKTQSQEEELMKLAKQFDKNMEELDVIQEQNKRNDFYDQMISETTEILSNYKDNIMWSL  
HNIVPEIDNATKKPIKGNKTSVANNQNSSQKPFQIAEAAFNIFDGGSTQKCSGQLSQE  
LPEAFWSTSNFTFVKTNALKEEKIITNETLVIEKLSNKTPRSLSSQVDTPIMTKSCVTSC  
TKEPETS NKYIDAF TTSDFEDDWENLLGSEPFAMQNIDMPELFPSKTAHVTDQKEICTFN  
SKTVKNTSRANTSPDARLGDSKVLQDLSSKTYDRELIDAEYRFSPNSNKS NKLSTGNKMK  
FENSSNKIVIQDEIQNCIVTSNLTKIKEDILTNSTEASERKSALNTRY SNEQKNKCILNQ  
SIKAPVNTDLFGSANLGSKTSVSNPNQTSASKVGSFFDDWNDPSFANEIIKACHQLDNTW  
EADDVDDDLLYQACDDIERLTQQQDIRKDSKTSSESICEINNNEHGAKLTQQQDIRKDSK  
TSESICEINNNEHGAKNMFAISKQGSNLVQSKHLNPGSISVQTS LTNSSQIDKPMKMEK  
GEMYGN SPRFLGATNL TMYSKISNCQINN LHVS YTN TDVPIQVNSSKLVLP GSSSLN VTS  
DHMNT EITTYKKLSTNQPCHKTVTDEAQS NLNTTVGFSKFTFTRMKNSQILSQFNQNCI  
TGSM S DTKITQGVEKKKG VNP LLEEAVGQQSLVKLSESLKQSSKEEEEKNRKCSPEEIQR  
KRQEALVRRMAKARASSVNAAPTSFL

>sp|O60883|ETBR2\_HUMAN Prosaposin receptor GPR37L1 OS=Homo sapiens GN=GPR37L1 PE=1 SV=2

MRWLWPLAVSLAVILAVGLSRVSGGAPLHLGRHRAETQEQQSRSKRGTEDEEAKGVQQYV  
PEEWA EYPRPIHPAGLQPTKPLVATSPNPGKDG GTPDSGQELRGNLTGAPGQRLQIQNPL  
YPVTESSYSAYAIMLLALVVFVAVGIVGNLSVMCIVWHSYYLKS AWNSILASLALWDFLVL  
FFCLPIVIFNEITKQRLG DVSCRAVPFMEVSSLGVTTFS L CALGIDRFHVATSTLPKVR  
PIERCQSILAKLAVI WVGSMTLAVPELLWQLAQEPAPTMGTL DSCIMKPSASLPESLYS  
LVMTYQNARMWWYFGCYFCLPILFTVTCQLVTWRVRGPPGRKSECRASKHEQCESQLNST  
VVGLTVVYAFCTLPENVCNIVVAYLSTELTRQTLDLLGLINQFSTFFKGAITPVLLLCIC  
RPLGQAFLDCCCCCCEECG GASEASAANGSDNKLKTEVSSSIYFHKPRESPPLLPLGTP

>sp|Q9H8M9|EVA1A\_HUMAN Protein eva-1 homolog A OS=Homo sapiens GN=EVA1A PE=1 SV=1  
MRLPLSHSPEHVMALLSNILAAYSFVSENPERAALYFVSGVCIGLVTLAALVIRISCH  
TDCRRRPGKKFLQDRESSDSSDSEDGSEDTVSDLSVRRHRRFERTLNKNVFTSAEELER  
AQRLEERERIIREIWMNGQPEVPGTRSLNRY

>sp|P34910|EVI2B\_HUMAN Protein EVI2B OS=Homo sapiens GN=EVI2B PE=1 SV=2  
MDPKYFILILFCGHLNNTFFSKTETITTEKQSQPTLFTSSMSQVLANSQNTTGNPLGQPT  
QFSDTFSGQSISPAKVTAQPTPAVYTSSEKPEAHTSAGQPLAYNTKQPTPIANTSSQQA  
VFTSARQLPSARTSTTPPKSFVYFTTQSSSVQIPSRKQITVHNPSTQPTSTVKNSPRS  
TPGFILDTTSNKQTPQKNYNISAAIIGVLLTSMVLVIAIIIVLWKCLRKPVLNDQNWAG  
RSPFADGETPDICMDNIRENEISTKRTSIIISLTPWKPSKSTLLADDLEIKLFESSENIED  
SNNPKTEKIKDQVNGTSEDSADGSTVGTAVSSDDADLPPPPPLDLEGQESNQSDKPTM  
TIVSPLPNDSTSLPPSLDCLNQDCGDHKEIIQSFPPLDSLNLPLPPVDFMKNQEDSNLE  
IQCQEFISIPPNSDQDLNESLPPPPAELL

>sp|Q8IYI6|EXOC8\_HUMAN Exocyst complex component 8 OS=Homo sapiens GN=EXOC8 PE=1 SV=2  
MAMAMSDSGASRLRRQLESQGGFEARLYVKQLSQSDGDRDLQEHRRQIQALAEETAQNLK  
RNVYQNYRQFIETAREISYLESEMYQLSHLLTEQKSLESIPLTLLPAAAAAGAAAASGG  
EEGVGGAGGRDHLRGAGGFSTPGGASRDGSGPGEQKQRTLTTLLEKVEGCRHLETPG  
QYLVDYNGDLVEYDADHMAQLQRVHGFLMNDCLLVATWLPQRRGMRYRYNALYSLDGLAVVN  
VKDNPPMKDMFKLLMFESRIFQAENAKIKREWLEVLDTKRALSEKRRREQEAAAAPRG  
PPQVTSKATNPFEDDEEEEPVPEVEEEEKVDLSMEWIEQLPEDLDVCIQQRDFEGAVDLL  
DKLNHYLEDKPSPPVKELRAKVEERVRLTEVLVFELSPDRSLRGGPKATRAVSQILIR  
LGQCTKACELFLNRAAVHTAIRQLRIEGATLLYIHKLCHVFFTSLLETAREFEIDFAG  
TDSGCYSFAVVWARSAMGMFVDAFSKQVFDSKESLSTAAECVKVAKHCQQLGDIGDLT  
FIHALLVKDIQALHSYKEIIIEATKHRNSEEMWRRMNLMTPEALGKLKEEMKSCGVSN  
FEQYTGDDCWVNLSTVVAFTKQTMGFLEEALKLYFPELHMVLLESLVEIILVAVQHVDY  
SLRCEQDPEKKAFIRQNASFLYETVLPVVEKRFEEGVGKPAKQLQDLRNASRLIRVNPES  
TTSVV

>sp|Q9Y3B2|EXOS1\_HUMAN Exosome complex component CSL4 OS=Homo sapiens GN=EXOSC1 PE=1 SV=1  
MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETE  
SQLLPDVGAIVTCKVSSINSRFAKVHILYVGSMPKNSFRGTIRKEDVRATEKDKEIYK  
SFRPGDIVLAKVISLGAQSNYLLTTAENELGVVVAHSESGIQMVPISWCEMQCPKTHTK  
EFRKVARVQPEFLQT

>sp|Q9NQT5|EXOS3\_HUMAN Exosome complex component RRP40 OS=Homo sapiens GN=EXOSC3 PE=1  
SV=3

MAEPASVAAESLAGSRARAARTVLGQVVLPGEELLPEQEDAEGPGGAVERPLSLNARAC  
SRVRVCGPGLRRCGDRLLVTKCGRLRHKEPGSGGGGVVWDSQQKRYVPVKGDHVGIGI  
VTAKSGDIFKVDVGSEPASLSYLSFEGATKRNRPNVQVGDLIYQQFVANKDMEPEMVC  
IDSCGRANGMGVIGQDGLLFKVTGLIRKLLAPDCEIIQEVGKLYPLEIVFGMNRIWVK  
AKTIQQTILANILEACEHMTSDQRKQIFSRLAES

>sp|Q9NQT4|EXOS5\_HUMAN Exosome complex component RRP46 OS=Homo sapiens GN=EXOSC5 PE=1  
SV=1

MEEETHDAKIRAENGTGSSPRPGCSLRHFACEQNLLSRPDGSASFLQGDTSVLAGVYG  
PAEVKSKEIFNKATLEVILRPKIGLPGVAEKSRRERLIRNTCEAVVLGTLHPRTSITVVL  
QVVS DAGSLLACCLNAACMALVDAGVPMRALFCGVACALDSGTLVLDPTSKQEKEARAV

LTFALDSVERKLLMSSTKGLYSDTELQQCLAAAQAASQHVFRFYRESLQRRYSKS

>sp|Q01780|EXOSX\_HUMAN Exosome component 10 OS=Homo sapiens GN=EXOSC10 PE=1 SV=2

MAPPSTREPRVLSATSATKSDGEMVLPGFADDSFVKFALGSVAVTKASGGLPQFGDEY  
DFYRSFPGFQAFCEQTQGDRLQLCMSRVMQYHGCRSNIKDRSKVTELEDKFDLLVDANDVI  
LERVGILLDEASGVNKNQQPVLPAGLQVPKTVVSSWNRKAAEYGKKAKSETFRLLHAKNI  
IRPQLKFREKIDNSNTPFLPKIFIKPNAQKPLPQALSKERRERPQDRPEDLDVPPALADF  
IHQRTQQVEQDMFAHPYQYELNHFTPADAVLQKPQQLYRPIEETPCHFISLDELVEL  
NEKLLNCQEFQAVDLEHHSYRSFLGLTCLMQISTRTEDFIIDTLELRSDMYILNESLTDPA  
IVKVFHGAADSDIEWLQKDFGLYVNNMFDTHQAARLLNLGRHSLDHLLKLYCNVDSNKQYQ  
LADWRIRPLPEEMLSARDDTHYLLYIYDKMRLEMWERGNGQPVQLQVWQSRSDICLKK  
FIKPIFTDESYLELYRKQKKHLNTQQLTAFQLLFAWRDKTARREDESYGYVLPNHMMLKI  
AEELPKPEQGI IACCNVPVPLVRQQINEMHLLIQQAREMPLLKSEVAAGVKKSGPLPSAE  
RLENVLFPGHDCSHAPPDGYPIIPTSGSVPVQKQASLFPDEKEDNLLGTTCLIATAVITL  
FNEPSAEDSKKGPLTVAQKKAQNIMESFENPFMRFLPSLGHRAVPSQAAKFDPPSTKIYEI  
SNRWKLAQVQVQKDSKEAVKKKAAEQTAAREQAKEACKAAAEQAISVRQQVVLENAKKR  
ERATSDPRTTEQKQEKRLKISKPKDPPEPEKEFTPYDYSQSDFKAFAGNSKSKVSSQF  
DPNKQTPSGKKCIAAKKIKQSVGNKSMSFPTGKSDRGFRYNWPQR

>sp|P15311|EZRI\_HUMAN Ezrin OS=Homo sapiens GN=EZR PE=1 SV=4

MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKTIIGLREVWYFGLHYVDNKGFPWLK  
LDKKVSAQEVVRKENPLQFKFRAKFYPEDVAEELIQDITQKLFFLQVKEGILSDEIYCPPE  
TAVLLGSYAVQAKFGDYNKEVHKSGLSSERLIPQRVMDQHKLTRDQWEDRIQVWHAHR  
GMLKDNAMLEYLKIAQDLEMYGINYFEIKNKKGTDLWLGVDAAGLNIEYKDDKLTPIKGF  
PWSEIRNISFNKKFVIKPIDKKAPDFVYAPRLRINKRILQLCMGNHELYMRRRKPDTI  
EVQMQKAQAREEKHKQLERQQLLETEKKRRETVEREKEQMMREKEELMLRLQDYEEKTKK  
AERELSEQIQRALQLEEERKRAQEEARLEADRMAALRAKEELERQAVDQIKSQEQLAAE  
LAEYTAKIALLEEARRRKEDEVEEWQHRAKEAQDDLVTKEELHLVMTAPPPPPPPVYEP  
VSYHVQESLQDEGAEPTGYSALSSEGI RDDRNEEKRITEAEKNERVQRQLLTLSSSELSQ  
ARDENKRTHNDI IHNENMRQGRDKYKTLRQIRQGNTKQRIDEFEAL

>sp|Q1W6H9|F110C\_HUMAN Protein FAM110C OS=Homo sapiens GN=FAM110C PE=1 SV=2

MRALAALSAPPNERLLPRDPAATRDPAARPARRSAVERLAADRAKYVRGRPGTGGRVAS  
EGSGPGAICKPGNDPGPPARAPAPVARRAIARKPLRPDSLIIYRQKCEFVRGSGADGPRA  
SLVKKLFQGGPKDKAPVPRTGDEGKAGNPETVPTTPGPAADPAIPETPAPAARSAAPSSV  
PAAPPGPEPRVRRRGLQRSQSDLSSRYSAALAESDTFFQYCGLDPEVVEALGRENFTAG  
SDCVTLKVRSVSVATSGSGFSRHSGGDDEGLQEEELIEQVPSTTSVIERNARI IKWLYTC  
KKAKETPSQEQSRTRGSKPSR

>sp|Q6P1L5|F117B\_HUMAN Protein FAM117B OS=Homo sapiens GN=FAM117B PE=1 SV=2

MSQVRRRNGSPTAGSLGGGAVATAGGPGSRLQPMRATVPFQLKQQQQQQHGSPTRS  
GGGNNNGCCGGASGPAGGGGGGGPRTASRSTSPTRGGGNAAARTSPTVATQTGASATST  
RGTSPTRSAAPGARGSPRPPPPPLLGTVSSPSSSPTHLWTGEVSAAPPPARVRRHRRS  
PEQSRSSPEKRSAPVCKAGDKTRQPSSSPSSI IRRTS LDTLAAPYLAGHWPRDSHGQ  
AAPCMRDKATQTESAWAEYSEKKKGSHKRSASWGSTDQLKEIAKL RQQLQRSKHSSRHH  
RDKERQSPFHGNHAAINQCQAPVPKSALIPVIPITKSTGSRFRNSVEGLNQEIEIIKET  
GEKEEQ LIPQDIPDGHRA PPVLQRSSSTRSIDTQTPGGADRGSNNSRSQSVSPTSFLT  
ISNEGSEESPCSADDLLVDPRDKENGNSPLPKYATSPKPNNSYMFKREPPEGCERVKVF

EECSPKQLHEIPAFYCPDKNKVNFIPKSGSAFCLVSILKPLLPTPDLTLKSGHSLTVTT  
GMTTTLLQPIAVASLSTNTEQDRVSRGTSTVMPSASLLPPPEPIEEAEG

>sp|Q5BKY9|F133B\_HUMAN Protein FAM133B OS=Homo sapiens GN=FAM133B PE=1 SV=1

MGKRDNRVAYMNPIMARSRGPIQSSGPTIQDYLNRPRTWEEVKEQLEKKKKGSKALAE  
FEEKMNENWKKELEKHREKLLSGSESSSKKRQRKKKEKKKSGRYSSSSSSSDSSSSSSD  
SEDEDKKQGKRRKKKKNRSHKSESSMSETESDSKDSLKKKKKSKDGTEKEKDIKGLSKK  
RKMYSEDKPLSSESLSESEYIEEVRAKKKSSEEREKATEKTKKKKKHKKHKKKKKKAA  
SSSPDSP

>sp|Q9P2D6|F135A\_HUMAN Protein FAM135A OS=Homo sapiens GN=FAM135A PE=1 SV=2

MTEVQAMVEFSVELNKFYNVDLFQRGFYQIRASMKIPSRIPHRVEASLLHATGMTLAFPA  
SVHDSLICKSTFQILYKNEEVVLDNVMIFKVKMLLDERKIEETLEEMNFLLSLDLHFTDG  
DYSADDLNALQLISSRTLKLHFSRGLHHHVNMFDYFHLVSVSVTVHASLVALHQPLI  
SFPRPVKTTWLNRNAQAQKDSVIPTLESVVFGINYTKQLSPDGCSFI IADSFLHHAYRF  
HYTLCATLLLAFKGLHSYFITVTEEIPSCQKLELEEMDVEARLTELCEEVKKIENPDELA  
ELINMNAQLCSLLMALWGQFLEVITLHEELRILLAQEHTLRVRRFSEAFFCFEHPREA  
AIAYQELHAQSHLQMCTAIKNTSFCSSLPLPIECSELDGDLNSLP IIFEDRYLDSVTED  
LDAPWMGIQNLQRSESSKMDKYETEESVAGLSSPELKVRPAGASSIWYTEGEKQLTKSL  
KGKNEESNKS VKVT KLMKTMKSENTKKLIKQNSKDSVVLVGYKCLKSTASNDLIKCFEG  
NPSHSQKEGLDPTICGYNFDPKTYMRQTSQKEASCLPTNTERTEQKSPDIENVQPDQFDP  
LNSGNLNLCANLSISGKLDISQDDSEITQMEHNLASRRSSDDCHDHQTTPSLGVRTIEIK  
PSNKDPFSGENITVKLG PWTEL RQEEILVDNLLPNFESLESNGKSKSIEITFEKEALQEA  
KCLSIGESLTKLRSNLPAPSTKEYHV VVSGDTIKLPDISATYASSRFSDSGVESEPSSFA  
THPNTDLVFETVQGQGPCNSERLFPQLLMKPDYNVKFSLGNHCTESTSAISEIQSSLTSI  
NSLPSDDELSPDENSKSVVPECHLND SKTVLNLGTTDLPKDDTKKSSITLQQQSVVFS  
GNLDNETVAIHSLNSSIKDPLQVFVSDEETSSDVKSSCSSKPNLDMCKGFQSPDKSNNS  
TGTAITLNSK LICLTPCVISGSISSNTDVSEDRTMKKNSDVNLNTQMYSEIPTVESETH  
LGTSDPFSASTDIVKQGLVENYFGSQSSTDISDTCAVSYSNALSPQKETSEKEISNLQQE  
QDKEDEEEEQDQMVQNGYEEETDYSALDGTINAHYTSRDELMEERLTKSEKINS DYLRD  
GINMPTVCTSGCLSFPSAPRESPCNVKYSSKSKFDAITKQPSSTSYNFTSSISWYESSPK  
PQIQAF LQAKEELKLLKLP GFMYSEVPL LASSVPYFSVEEEDGSEDGVHLIVCVHGLDGN  
SADLRLVKTYIELGLPGGRIDFLMSERNQNDTFADFD SMTDRLLDEIIQYIQIYSLTVSK  
ISFIGHSLGNLIIRSVLTRPRFKYYLNKLHTFSLSGPHLGTLYNSSALVNTGLWFMQKW  
KKSGSLLQLTCRDHSDPRQTFLYKLSNKAGLHYFKNVVLVGS LQDRYVPYHSARIEMCKT  
ALKDKQSGQIYSEMIHNLLRPVLQSKDCNLVRYNVINALPNTADSLIGRAAHIAVL DSEI  
FLEKFFLVAALKYFQ

>sp|Q9H6Z9|EGLN3\_HUMAN Egl nine homolog 3 OS=Homo sapiens GN=EGLN3 PE=1 SV=1

MPLGHIMRLDLEKIALEYIVPCLHEVGFCYLDNFLGEVVGDCVLERVKQLHCTGALRDGQ  
LAGPRAGVSKRHLRGDQITWIGGNEEGCEAISFLLSLIDRLVLYCGSRLGKYVVKERSKA  
MVACYPGNGTGYVRHVDNPNGDGRCITCIYYLNKNWD AKLHGGILRIFPEGKSFIADVEP  
IFDRLLFFWSDRRNPHEVQPSYATRYAMTVWYFDAEERAEAKKKFRNLTRKTESALTED

>sp|Q9H223|EHD4\_HUMAN EH domain-containing protein 4 OS=Homo sapiens GN=EHD4 PE=1 SV=1

MFSWMGRQAGGRERAGGADAVQTVTGGLRSLYLKVLPLEEAYRFHEFHSPALEDADFEN  
KPMILLVGQYSTGKTTFIRYLLEQDFPGMRIGPEPTTDSFIAMVYGETEGSTPGNALVVD  
PKKPFRLKLSRFGNAFLNRFMCSQLPNQVLKSI SVIDSPGILSGEKQRISRGYDFCQVLQW

FAERVDRIILLFDAHKLDISDEFSEAIKAFRGQDDKIRVVLNKADQVDTQQLMRVYGALM  
WSLGKVINTPEVLRVYIGSFWAQLQNTDNRRLFEAEAQDLFRDIQSLPQKA AVRKLNDL  
IKRARLAKVHAYIISYLKKEMPSVFGKENKKRELISRLEIYIQLQREYQISAGDFPEVK  
AMQEQLENYDFTKFHSLKPKLIEAVDNMLS NKISPLMNLISQEETSTPTQLVQGGAFDGT  
TEGPFNQGYGEGAKEGADEEEWVAKDKPVYDEL FYTLSPINGKISGVNAKKEMVTSKLP  
NSVLGKIWKLADCDGMLDEEEFALAKHLIKIKLDGYELPSSLPPHLVPPSHRKS LPKA  
D

>sp|Q9NR50|EI2BG\_HUMAN Translation initiation factor eIF-2B subunit gamma OS=Homo sapiens  
GN=EIF2B3 PE=1 SV=1

MEFQAVVMVGGGSRMTDLTSSIPKPLLPVGNKPLIWYPLNLLERVGFEEVIVVTTRDVQ  
KALCAEFKMKMPDIVCIPDDADMGTADSLRYIYPKLKTDVLVLSCDLITDVALHEVVDL  
FRAYDASLAMLMRKGQDSIEPVPGQKGKKKAVEQRDFIGVDSTGKRLLFMANEADLDEEL  
VIKGSILQKHPRI RFHTGLVDAHLYCLKKYIVDFLMENG SITSIRSELIPYLVRKQFSSA  
SSQQGQEEKEEDLKKKELKSLDIYSFIKEANTLNLAPYDACWNACR GDRWEDLSRSQVRC  
YVHIMKEGLCSRSTLGLYMEANRQVPKLLSALCPEEPPVHSSAQIVSKHLVGVD SLIGP  
ETQIGEKSSIKRSVIGSSCLIKDRVTITNCLLMNSVTVEEGSNIQGSVICNNAVIEKGAD  
IKDCLIGSGQRIEAKAKRVNEVIVGNDQLMEI

>sp|075821|EIF3G\_HUMAN Eukaryotic translation initiation factor 3 subunit G OS=Homo  
sapiens GN=EIF3G PE=1 SV=2

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDT SPEPELLPGAPLPPPEVI  
NGNIKTVTEYKIDEDGKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATT  
TVSDDVSMTFITSKEDLNCQEEEDPMNKLKGQKIVSCRICKGDHWTTRCPYKDTLGP MQK  
ELAEQLGLSTGEKEKLPGELEPVQATQNKTKGYVPPSLRDGASRRGESMQPNRRADDNAT  
IRVTNLSED TRETDLQELFRPFGSISR IYLA KDKTGQSKGFAFISFHRREDAARAIAGV  
SGFGYDHLILNVEWAKPSTN

>sp|O15372|EIF3H\_HUMAN Eukaryotic translation initiation factor 3 subunit H OS=Homo  
sapiens GN=EIF3H PE=1 SV=1

MASRKEGTGSTATSSSSTAGAAGKKGKGGSGDSAVKQVQIDGLVVLKIIKH YQEEGQGT  
EVVQGVLLGLVVEDRLEITNCFPPQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWY  
QSTYYGSFVTRALLDSQFSYQHAIEESVVL IYDPIKTAQGSLSLKAYRLTPKLMEVC KEK  
DFSPEALKKANITFEYMFEVPIVIKNSHLINVL MWELEKKS AVADKHELLSLASSNHLG  
KNLQLLMDRVDMSQDIVKYNTYMRNTSKQQQKHKHYQRRQENMQRQSRGEPPLPEED  
LSKLFKPPQPPARMDSLLIAGQINTYCN IKEFTAQNLGKLFMAQALQEYNN

>sp|Q13347|EIF3I\_HUMAN Eukaryotic translation initiation factor 3 subunit I OS=Homo  
sapiens GN=EIF3I PE=1 SV=1

MKPILLQGHERSITIKYNREGDLLFTVAKDPIVNVWYSVNGERLGYMGHTGAVWCVDA  
DWDTKHVL TG SADNSCRLWDCETGKQLALLK TNSAVRTCGFDG GNIIMFSTDKQMGYQC  
FVSFFDLRDSQIDNNEPYMKIPCND SKITS AVWGPLGECIIAGHESGELNQYSAKS GEV  
LVNVKEHSRQINDIQLSRDMTFVTASKDNTAKLFDSTTLEHKTFRTERPVNSAALSPN  
YDHVVLGGGQEAMDVTTTSTRIGKF EARFFHLAFEEEEFGRVKGHFGPINSVAFHPDGKSY  
SSGGEDGYVRIHYFDPQYFEFEFEA

>sp|P32519|ELF1\_HUMAN ETS-related transcription factor Elf-1 OS=Homo sapiens GN=ELF1 PE=1  
SV=2

MAAVVQQNDLVFEFASNVMEDERQLGDP AIFPAVIVEHVPGADILNSYAGLACVEEPNDM



ITESSLDVAEEEEIDDDDDITLVEASCHDGETIETIEAAEALLNMDSPGPMLEKRI  
NNNIFSSPEDDMVAVPVTHVSVTLDGIPVEMETQQVQEKYADSPGASSPEQPKRKKGRKT  
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VDSKAVSRLWGKHKNKPDNYETMGRALRYYYQRGILAKVEGQRLVYQFKEMPKDLIYIN  
DEDPSSSIESSDPSLSSSATSNRNQTSRSRVSSSPGVKGGATTVLKPGNSKAAKPKDPVE  
VAQPSEVLRTVQPTQSPYPTQLFRTVHVVPVQAVPEGEAARTSTMQDETLNSSVQSIRT  
IQAPTQVPVVVSPRNQQLHTVTLQTVPLTTVIASTDPSAGTGSQKFILQAIPSSQPMTVL  
KENVMLQSQKAGSPPSIVLGAQVQQVLTSNVQTICNGTVSVASSPSFSATAPVVFSPR  
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>sp|Q8TC92|ENOX1\_HUMAN Ecto-NOX disulfide-thiol exchanger 1 OS=Homo sapiens GN=ENOX1 PE=1 SV=1

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TLFPQNP NLPPPSTRERPPGCKTVFVGGLPENATEEIIQEVFEQCGDITAIRKSKNFCH  
IRFAEEFMVDKAIYLSGYMR LGSSTDKKDSGR LHVDFAQARDDFYEW ECKQRM RAREER  
HRRKLEEDRLRPPSPPAIMHYSEHAALLAEK LKDDSKFSEAITVLLSWIERGEVNR RSA  
NQFYSMVQSANSVHRR LMNEKATHEQEMEEAKENFKNALTGILTQFEQIVAVFNASTRQK  
AWDHFSKAQRKNIDIWRKHSEELRNAQSEQLMGIRREEEMEMSDDENCDSPTKKMRVDES  
ALAAQAYALKEENDSLRWQLDAYRNEVELL KQEKEQLFRTEENLTKDQQLQFLQQT MQGM  
QQQLLTIQEELNNK KSELEQAKEEQSHTQALLKVLQEQLKGT KELVETNGHSHEDSNEIN  
VLTVALVNQDRENNIEKRSQGLKSEKEALLIGIISTFLHVHPFGANIEYLWSYMQQLDSK  
ISANEIEMLLMRLPRMFKQEFTGVGATLEKRWKLC AFEGIKT

>sp|Q5NDL2|EOGT\_HUMAN EGF domain-specific O-linked N-acetylglucosamine transferase  
OS=Homo sapiens GN=EOGT PE=1 SV=1

MLMLFVFGVLLHEVSLSGQNEAPPNTHSIPGEPLYNYASIRLP EEHIPFFLHNNRHIA TV  
CRKDSLCPYKKHLEKLKYCWGYEKSCKPEFRFGYPVCSYVDMGWTD TLESAEDIFWKQAD  
FGYARERLEEMHVL CQPKETSDSSLVCSRYLQYCRATNLYDLRN IKNHNRHDFKEDFFQS  
GEIGGHCKLDIRTLTSEGRKSPLQSWFAELQSYTQLNFRPIEDAKCDIVIEKPTYFMKL  
DAGVNMVHHFCDFINLYITQHVNSFS TDVYIVMWD TSSYGYGDLFSDTWNAFTDYDVIH  
LKTYDSKRVC FKEAVFSLLPRMRYGLFYNTPLISGCQNTGLFRAFAQHVLHRLNITQEGP  
KDGIKIRVTILARSTEYRKILNQNELVNALKTVSTFEVQIVDYKYREL GFLDQLRITHNTD  
IFIGMHGAGLTHLLFLPDWAAVFELYN CEDERCYLDLARL RGVHYITWRRQNKVFPQDKG  
HHPTLGEHPKFTNYSF DVEEFMYLV LQAADHVLQH PKWPFKKKHDEL

>sp|Q09472|EP300\_HUMAN Histone acetyltransferase p300 OS=Homo sapiens GN=EP300 PE=1 SV=2

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INQLQTS LGMVQDAASKHKQSEL LRS GSSPNLNMVG GPGQVMASQAQQSSPGLGLINS  
MVKSPMTQAGLTSPNMGMGTSGPNQGP TQSTGMMNSPVNQ PAMGMNTGMNAGMNPGLAA  
GNGQGIMP NQVMNGSIGAGRGRQNMQYPNPGMGSAGNLLTEPLQQGSPQMGGQTGLRGPQ  
PLKMGMNNPNPYGSPYTQNP GQQIGASGLGLQIQTKTVLSNNLSPFAMD KKA VPGGGMP  
NMGQQPAPQVQQPGLVTPVAQGMGSGAHTADPEKRKLIQQQLVLLLHAHKCQRREQANGE  
VRQCNLPHCRTMKNVLN HMT HCQSGKSCQVAHCASSRQII SHWKNCTRHD CPVCLPLKNA  
GDKRNQQPILTGAPVGLGNPSSLGVGQQSAPNLSTVSQIDPSSIERAYAALGLPYQVNQM  
PTQPQVQAKNQNNQPGQSPQGM RPSNMSASPMGVNGGVGVQTPSLLSDSMLHSAINSQ

NPMMSENASVPSLGPMPATAAQSTTGIRKQWHEditQDLRNHLVHKL VQAI FPTDPAAL  
KDRRMENLVAYARKVEGDMYESANNRAEYHLLAEKIYKI QKELEEKRRTRLQKQNM LPN  
AAGMVPVSMNPGPNMGQPQPGMTSNGPLPDPSMIRGSVPNQMMPRITPQSGLNQFGQMSM  
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EVNSQAIAEKQPSQEVKMEAKMEVDQPEPADTQPEDISESKVEDCKMESTETEERSTELK  
TEIKEEEDQPSTSATQSSPAPGQSKKKIFKPEELRQALMPTLEALYRQDPESLPFRQ PVD  
PQLLGIPDYFDIVKSPMDLSTIKRKLDTGQYQEPWQYVDDIWL MFNNAWLYNRKTSRVYK  
YCSKLESEVFEQIDPVMQSLGYCCGRKLEFSPQTLCCYGKQLCTIPRDATYYSYQNR YHF  
CEKCFNEIQGESVSLGDDPSQPQTINKEQFSKRKNDTLDPELFVECTEGRKMHQICVL  
HHEI IWPAGFVCDGCLKKSARTRKENKFSAKRLPSTR LGTFLENRVNDFLRRQNH PESGE  
VTVRV VHASDKTVEVKPGMKARFVDSGEMAE SFPYRTKALFAFEEIDGVDLCFFGMHVQE  
YGSDCPPPNQRRVYISYLD SVHFFRPKCLRTAVYHEILIGYLEYVKLG YTTGHIWACPP  
SEGDDYIFHCHPPDQKIPKPKRLQEWYKKMLDKAVSERIVHDYKDI FKQATEDRLTSAKE  
LPYFEGDFWPNVLEESI KELEQEEEEERKREENTSNESTDVTKGDSKNAKKKNNKTSKNK  
SSLRGNKKKPGMPNVSNL SQKLYATMEKHKEVFFVIRLIAGPAANSLPPIVDPDPLIP  
CDLMDGRDAFLTLARDKHLEFSSLRRAQWSTMCM LVELHTQSQDRFVYTCNECKHHVETR  
WHCTVCEDYDLCTICYNTKNHDKMEKLG LGLDDESNNQQAATQSPGDSRRLSIQRCIQ  
SLVHACQCRNANCSLPSCQMKR VVQHTKGCKRKTNGGCPICKQLIALCCYHAKHCQENK  
CPVPFCLNIKQLRQQQLQHRLQQAQMLRRRMASMQRTGVVGQQQGLPSPTPATPTTPTG  
QQPTTPQTPTSQPPPTPNMPPYLPRTQAAGPV SQGKAAGQVTPPTPPQTAQPPLPG  
PPPAAVEMAMQIQRAAETQRQMAHVQIFQRPIQHQMPPMTMAPMG MNPPPMTRGPSGHL  
EPGMGPTGMQQQPWSQGGLPQPQQLQSGMP RPAMMSVAQH GQPLNMAPQPGLGQVGISP  
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PGQPGMPQGQGLQPPTMPGQGVHSNPAMQNMNPMQAGVQRAGLPQQQPQQQLQPPMGG  
MSPQAQQMNHNMTMPSQFRDILRRQMMQQQQQGAGPGIGPGMANHNQFQQPQGVGYP  
PQQQQRMQHMMQMQGNMGQIGQLPQALGAEAGASLQAYQQRL LQQQMGSVPQPNMSP  
QQHMLPNQAQSPHLQGGQIPNSLSNQVRSPQVPSPRPQSQPPHSSPSPRMQPQPSPHV  
SPQTSSPHPLVAAQANPMEQGHFASPDQNSMLSQ LASNPGMANLHGASATDLGLSTDNS  
DLNSNLSQSTLDIH

>sp|Q9UM22|EPDR1\_HUMAN Mammalian ependymin-related protein 1 OS=Homo sapiens GN=EPDR1  
PE=1 SV=2

MPGRAPLRTVPGALGAWLLGGLWAWTLCGLCSLGAVGAPRPCAPQQWEGRQVMYQQSSG  
RNSRALLSYDGLNQVRVLDERKALIPCKRLF EYILLYKDGVMFQIDQATKQCSKMTLTQ  
PWDPLDIPQNSTFEDQYSIGGPQE QITVQEWSDRKSARSYETWIGIYTVKDCYPVQETFT  
INYSVILSTRFFDIQLGIKDPSVFTPPSTCQMAQLEKMS EDCSW

>sp|P54762|EPHB1\_HUMAN Ephrin type-B receptor 1 OS=Homo sapiens GN=EPHB1 PE=1 SV=1

MALDYLLLLLLASAVAAMEETLMDTRTATAELGWTANPASGWEEVSGYDENLNTIRTYQV  
CNVFEPNQNNWLLTTFINRRGAHRIYTEMRFTVRDCSSLPNVPGSKETFNLYYYETDSV  
IATKKS AFWSEAPYLKVD TIAADESFSQVDFGGRLMKVNTEVRSFGPLTRNGFYLA FQDY  
GACMSLLSVRVFFKKCPSIVQNF AVFVPETMTGAESTSLVIARGTCIPNAEEVDVP IKLYC  
NGDGEWMVPIGRCTCKPGYEPENSVACKACPAGTFKASQEAEGCSHCPSNSRSPAEASPI

CTCRTGYRADFDPEVACTSVPSGPRNVISIVNETSIILEWHPPRETGGRDDVTYNIIC  
KKCRADRRSCSRCDNVEFVPRQLGLTECRVSISSLWAHTPYTFDIQAINGVSSKSPFPP  
QHVSVNITTNQAAPSTVPIMHQVSATMRSITLSWPQPEQPNGIILDYEIRYYEKEHNEFN  
SSMARSQTNTARIDGLRPGMVVYVQVRARTVAGYGKFSGKMCQTLTDDDYKSELREQLP  
LIAGSAAAGVVFVSLVAISIVCSRKRAYSKEAVYSDKLQHYSTGRGSPGMKIYIDPFTY  
EDPNEAVREFAKEIDVSFVKIEEVIGAGEFGEVYKGRLLKPGKREIYVAIKTLKAGYSEK  
QRRDFLSEASIMGQFDHPNIIRLEGVVTKS RPVMIITEFMENGALDSFLRQNDGQFTVIQ  
LVGMLRGIAAGMKYLAEMNYVHRDLAARNILVNSNLVCKVSDFGLSRYLQDDTSPTYTS  
SLGGKIPVRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSFGERPYWMSNQDVINAIEQD  
YRLPPMPDCPAALHQLMLDCWQKDRNSRPRFAEIVNTLDKMIRNPASLKT VATITAVPSQ  
PLLD RSI PDFTAFTTVDDWLSAIKMQYRDSFLTAGFTSLQLVTQMTSEDLLRIGITLAG  
HQKKILNSIHSMRVQISQSPTAMA

>sp|Q9NZ08|ERAP1\_HUMAN Endoplasmic reticulum aminopeptidase 1 OS=Homo sapiens GN=ERAP1  
PE=1 SV=3

MFVFLPLKWSLATMSFLLSSLLALLTVSTPSWCQSTEASPKRSDGTPFPWNKIRLPEYVIP  
VHYDLLIHANLTTLTFWGTTKVEITASQPTSTIILHSHHLQISRATLRKGAGERLSEEPL  
QVLEHPRQE QIALLAPELLVGLPYTVVIHYAGNLSETFHGFYKSTYRTKEGELRILAST  
QFEPTAARMAFPCFDEPAFKASF SIKIRREPRHLAISNMPLVKSVTVAEGLIEDHFDVTV  
KMSTYLVAFIISDFESVSKITKSGVKVSVYAVPDKINQADYALDAVTLLEFYEDYFSIP  
YPLPKQDLAAIPDFQSGAMENWGLTTYRESALLFDAEKSSASSKLGITMTVAHEL AHQWF  
GNLVTMEWWNDLWLN EGF AKFMEFVS SVSTHPELKVGDYFFGKCFDAMEVDALNSSHPVS  
TPVENPAQIREMFDDVSYDKGACILNMLREYLSADAFKSGIVQYLQKHSYKNTKNEDLWD  
SMASICPTDGVKGMDGFCRSRSHSSSSSHWHQEGVDVKTMNTWTLQKGFPLITITVRGR  
NVHMKQEHYMKGSDGAPDTGYLWHVPLTFITSKSDMVHRFLLKTKTDVLILPEEVEWIKF  
NVGMNGYYIVHYEDDGWDSL TGLLKGTHTAVSSNDRASLINNAFQLVSI GKLSIEKALDL  
SLYLKHETEIMPVFQGLNELIPMYKLM EKRMNEVETQFKAFLIRLLRDLIDKQWTDEG  
SVSERMLRSQLLLLACVHNYQPCVQRAEGYFRKWKESNGNLSLPVDVTLAVFAVGAQSTE  
GWDFLYSKYQFSLSTEKSQIEFALCRTLQNKELQWLLDESFGDKIKTQEFPQILTLIG  
RNPVGYP LAWQFLRNWNKL VQKFELGSSSIAHMMGT TNQFSTRTRLEEVKGFFSSLKE  
NGSQLRCVQQT IETIEENIGWMDKNFDKIRVWLQSEKLERM

>sp|Q6P179|ERAP2\_HUMAN Endoplasmic reticulum aminopeptidase 2 OS=Homo sapiens GN=ERAP2  
PE=1 SV=2

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RFPWQELRLPSVVIPLHYDLFVHPNLTSLDFVASEKIEVLVSNA TQFIILH SKDLEITNA  
TLQSEEDSR YMKPGKELKVL SYPAHEQ IALLVPEKLTPHLKYVAMDFQAKLGDGFEGFY  
KSTYRTLGGETRILAVTDFEPTQARMAFPCFDEPLFKANFSIKIRRESRHIALSNMPKV K  
TIELEGGLEDHFETTVKMSTYLVAYIVCDFHSLSGFTSSGVKVS IYASPDKRNQTHYAL  
QASLKLLDFY EKYFDIYYPLSKLDLIAIPDFAPGAMENWGLITYRETSLLFDPKTSSASD  
KLWVTRVIAHEL AHQWFGNLVTMEWWNDIWLKEGFAKYMELI AVNATY PELQFDDYFLNV  
CFEVI TKDSLNSSRPISKPAETPTQIQEMFDEVSYNGACILNMLKDFLGEEKFQKGI IQ  
YLKKFSYRNAKNDDLWSSLSNSCLESDF TSGGVCHSDPKMTSNMLAFLGENAEVKEMMTT  
WTLQKGIPLLVVKQDGC SLRLQQRFLQGVFQEDPEWRALQERYLWHIPLTYSTSSSNVI  
HRHILKSKTDTLDLPEKTSWVKFNVD SNGYYIVHYEGHGW DQLITQLNQNHTLLRPKDRV  
GLIHDVFQLVGAGRLTLDKALDMTYYLQHETSSPALLEGLSYLESFYHMMDRRNISDISE

NLKRYLLQYFKPVIDRQSWSDKGSVWDRMLRSALLKLACDLNHAPCIQKAAELFSQWMES  
SGKLNIPDVLKIVYSVGAQTTAGWNYLLEQYELSMSSAEQNKILYALSTSKHQEKLLKL  
IELGMEGKVIKTQNLAAALLHAIARRPKGQQLAWDFVRENWTHLLKKFDLGSYDIRMIISG  
TTAHFSSKDKLQEVKLFFESLEAQGSHLDIFQTVLETITKNIKWLEKNLPTLRTWLMVNT

>sp|Q13216|ERCC8\_HUMAN DNA excision repair protein ERCC-8 OS=Homo sapiens GN=ERCC8 PE=1  
SV=1

MLGFLSARQTGLEDPRLRRAESTRRVLGLELNKDRDVERIHGGGINTLDIEPVEGRYML  
SGGSDGVIVLYDLENSRQSYTCKAVCSIGRDHPDVHRYSVETVQWYPHDTGMFTSSSF  
DKTLKVDNTNLQTADVNFEEETVYSHHMSPVSTKHCLVAVGTRGPKVQLCDLKSGSCSH  
ILQGHRQEILAVSWSPRYDYILATASADSRVKLWDVRRASGCLITLDQHNGKKSQAVESA  
NTAHNGKVNLCTSDGLHLLTVGTDNRMRLWNSSNGENTLVNYGKVCNNSKKGLKFTVS  
CGCSSEFVFVPYGSTIAVYTVYSGEQITMLKGHYKTVDCCVFQSNFQELYSGSRDCNILA  
WVPSLYEVPVDDDETTKSQLNPAFEDAWSSSDEEG

>sp|Q8IYD1|ERF3B\_HUMAN Eukaryotic peptide chain release factor GTP-binding subunit ERF3B  
OS=Homo sapiens GN=GSPT2 PE=1 SV=2

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PNVHAAEFVPSFLRGPTQPPTLPAGSGSNDETCTGAGYPQGKRMGRGAPVEPSREEPLVS  
LEGSNSAVTMELSEPVVENGEVEMALEESWEHSKEVSEAEPPGGSSGDSGPPEESGQEMM  
EEKEEIRKSKSVIVPSGAPKKEHVNVVFIGHVDAGKSTIGGQIMFLTGMVDKRTLEKYER  
EAKENRETWYLSWALDTNQEERDKGKTVEVGRAYFETERKHFTILDAPGHKSFVPMIG  
GASQADLAVLVISARKGEFETGFEEKGGQTREHAMLAKTAGVKHLIVLINKMDDPTVNWSI  
ERYEECKEKLVPFLKKVGFSPKKDIHFMPCSGLTGANIKEQSDFCPWYTGLPFIPYLDNL  
PNFNRSIDGPIRLPIDVKYKDMGTVVVLGKLESGIFKGQQLVMPNKHNVLEVGLISDDT  
ETDFVAPGENLKIRLKGIEEEEILPGFILCDPSNLCHSGRTFDVQIVIIIEHKSIIICPGYN  
AVLHIHTCIEEVEITALISLVDKKSGEKSKTRPRFVKQDQVCARLRTAGTICLETFKDF  
PQMGRFTLRDEGKTIAIGKVLKLVPEKD

>sp|Q5RHP9|ERIC3\_HUMAN Glutamate-rich protein 3 OS=Homo sapiens GN=ERIC3 PE=2 SV=1

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SPHPPVGPKNRGHSLVLDEGHSSPLALTAPRPYTAPGNMQPPIRLQPLPSNPAVETVPK  
VTSRSRKTSLENEALFPIGGKKAVMKFRNSIGNSQRMNSYQLPNINSYMPIPPPLPP  
TGKITRENRETWRRRRFRPTTAPNGLEPLLTKDSRRIHKTSLHSNAAITMIYLGKNVHL  
SSDNPDFRDEIKVYQQHCGGENLCVYKGKLEKETFQFISKRRHHGFPFSLTFFLNGMQVN  
RLSSCCEYKHRKGSRLGGKRGYFGFVCVERSSPCYKCI IAMGLDKKPSLPKSRKEKSTEK  
GEELKKAEGKVRKEREYVIPKRNEIKENKTSVSAKFSAQEIKTGLKEVVTAVEEMTSK GK  
PGQEVLEDDQENTLKYEYEDFEVDEEKQGEKSNEEGQADVQMNGIPQSPLDDKKDNDP  
EKESSETSSQKAPDARNVNDENDGCSESELEEDKQDMKTASSTSSRSHPYSSDSEDES AV  
GDREAHTDSSTDESARRSSQELSENDKPRKSHLPIEESLEIEIEDQEITKADVETKMP  
IDESFENVLKEGTEKGTQEIAEGLSEKSGKHVSAAEKEKDKSKLWEESTAQVKDKKAGLP  
GLEEGKDSLPLAYVLALGAPTMFMVDETAAINS NKESQQLVQKTYTLEKKEAMEEDEA  
PQHRDADIVQGKGEAALWGEAGAVHEAPLRAWKPTAEQPELAEFTEKREIPPGIERGAE  
GAAEAEGVRRLGEGGSDPIGQAAAKDAVGLSKDEAPEKQALMLTVLETDKAASEGEQGLE  
KAVLANEAAALNLEHLHEVAALREAAATSEGEAEGGVAVSDVGESEEEASIDLEDTG PME  
DTASKREDGSEEA ILGGEEPAKERKEVMRTETRLSPFTGEAEASRMQVSEGSP EEGSLAK

EAF LCKEDVEGEEMVTEAEANREDDRKEILPKELDLARERRKAERP KTS LRKTD SEREEV  
TRANALKDEDAFKEEQKLKAAEEGETETEVRAEEETKAPPNEMGSDAENEAPVEASELSDN  
PGLLGEDSLKETVVP IFEATPGFEKSLENITALRKEGGERLSEARDTEHKDREELSSRE  
NRALKEGHRQDGEALAAPEAPAGKVQAPEGLIPATGQAEELAAKDHDSCAGLEGRAEG  
QGGVDVVLRTQEAVAEDP IMAEKFREEA VDEDPEEEEDKECTLETEAMQDRNSEGDGDM  
EGEGNTQKNEGMGGGRVVAVEVLHGGGETAETA AEEREVLAGSETAE EKT IANKASSFS  
DVAEEETWHQQDELVGKTAAGKVVEELARS GEEVPAAEEMTVTYTTEAGVGTGALERK  
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>sp|075477|ERLN1\_HUMAN Erlin-1 OS=Homo sapiens GN=ERLIN1 PE=1 SV=1

MTQARVLVA AVVGLVAVLLYASIHKIEEGLAVYYRGGALLTSPSGPGYHIMLPFITTFR  
SVQTTLQTDEVKNVPCGTSGGVMIYIDRIEVVNMLAPYAVFDIVRNYTADYDKTLIFNKI  
HHELNQFCSAHTLQEVYIELFDQIDENLKQALQKDLNLMAPGLTIQAVRVTKPKIPEAIR  
RNFELMEA EKT KLLIAAQKQKVVEKEAETERKKAVIEAEKIAQVAKIRFQQKVMKEKETE  
KRISEIEDAAFLAREKAKADA EYAAHKYATSNKHKLTP EYLELKKYQAIASNSKIYFGSN  
IPNMFVDSSCALKYS DIRTGRESSLPSKEALEPSGENVIQNKESTG

>sp|095718|ERR2\_HUMAN Steroid hormone receptor ERR2 OS=Homo sapiens GN=ESRRB PE=1 SV=2

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MFAGAGLGGTPCRKSYEDCASGIMEDSAIKCEYMLNAIPKRLCLVCGDIASGYHYGVASC  
EACKAFFKRTIQGNIEYSCPATNECEITKRRRKSCQACRFMKCLKVGMLKEGVRLDRVRG  
GRQKYKRRLDSESSPYLSLQISPPAKKPLTKIVSYLLVAEPDKLYAMPPPGMPEGDIKAL  
TTLCDLADRELVIIIGWAKHIPGFSSLSLGDQMSLLQSAWMEILILGIVYRSLPYDDKLV  
YAEDYIMDEEHSRLAGLLELYRAILQLVRRYKKLKVEKEEFVTLKALALANSDSMYIEDL  
EAVQKLQDLLHEALQDYELSQRHEEPWRTGKLLLTPLLRQTAAKAVQHFYSVKLQGKVP  
MHKL FLEMLEAKVGQEQLRGSPKDERMSSHGKCPFQSA AFTSRDQSNSPGIPNPRPSSP  
TPLNERGRQISPSTRTPGGQGKHLWLT M

>sp|Q9UJM3|ERRFI\_HUMAN ERBB receptor feedback inhibitor 1 OS=Homo sapiens GN=ERRFI1 PE=1 SV=1

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QERLIPLGHASKSAPMNGHCAENGPSQKSSLPPLLIPPSENLGPHEEDQVVCGFKKLTV  
NGVCASTPPLTPIKNSPSLFP CAPILCERGSRLPPLPISEALSLDDTDCVEFLTSSDTD  
FLLEDSTLSDFKYDVPGRRSFRGCGQIN YAYFDTPAVSAADLSYVSDQNGGVPDPNPPPP  
QTHRRLRRSHSGPAGSFNKPAIRISNCCIHRASPNSDEDKPEVPPRPVIPP RPVKPDYRR  
WSAEVTSSTYSDEDRPPKVPPREPLSPSNSRTPSPKSLPSYLN GVPPTQSFAPDPKYVS  
SKALQRQNSEGSASKVPCILPIIENGKVSSTHYLLPERPPYLDKYEKFFREAEETNGG  
AQIQPLPADCGISSATEKPD SKTKMDLGGHV KRKHL SYVVSP

>sp|B6SEH9|ERVV2\_HUMAN Endogenous retrovirus group V member 2 Env polyprotein OS=Homo sapiens GN=ERVV-2 PE=2 SV=1

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LVRNFSNLNLTFGSGIPEGQHKS VPLQVSLANSAHQVPCLDLTPPFNQSSKTSFYFYNCSS  
LNQTCPCPEGHCDRKN TSEEGFPSPTIHPMSFSPAGCHPNLTHWCPAKQMNDYRDKSPQ  
NRCAAWEKGELITWRVLYSLPKAHTVPTWPKSTVPLGGPLSPACNQ TIPAGWKS QLHKWF  
DSHIPRWACTPPGYVFLCGPQKNKLPFDGSPKITYSTPPVANLYTCINNIQHTGECAVGL  
LGPRGIGVTIYNTTQPRQKRALGLILAGMGAAIGMIAPWGGFTYHDVTLRNL SRQIDNIA

KSTRDSISKLKASIDSLANVMDNRLALDYLLAEQGGVCAVINKSCCVVNNSGAIEEDI  
KKIYDEATWLHDFGKGASARAIWEAVKSALPSLNWFVPLLGPATVILLFLFGPCFFNL  
LIKCVSSRIKQFHMKSQMERYQLSVIGGPSTYKHISPLDASGRFRETMEEFSL

>sp|Q8TE68|ES8L1\_HUMAN Epidermal growth factor receptor kinase substrate 8-like protein  
1 OS=Homo sapiens GN=EPS8L1 PE=1 SV=3

MSTATGPEAAPKPSAKSIYEQRKRYSTVVMADV SQYPVNHLVTFCLGEDDGVHTVEDASR  
KLAVMDSQGRVWAQEMLLRVSPDHVTLLDPASKEELESYPLGAIVRCDAVMPGRSRSL  
LLVCQEPERAQPDVHFFQGLRLGAELIREDIQGALHNYRSGRGERRAAALRATQEELQRD  
RSPAAETPPLQRRPSVRAVISTVERGAGRGRPAKPIPEAEAAQRPEPVGTSNADSASP  
DLGPRGPD LAVLQAEREVDILNHVFDDVESFVSRLQKSAEAA RVLEHRERGRSRRRRAAG  
EGLLTLRAKPPSEAEYTDVLQKIKYAFSLLARLRGNIADPSSPELLHFLFGPLQMIVNTS  
GGPEFASSVRRPHLTSDAVALLRDNTPRENELWTS LGDSWTRPGLELSPEEGPPYRPEF  
FSGWEPPVTD PQSRAWEDPVEKQLQHERRRRQQSAPQVAVNGHRDLEPESE PQLESETAG  
KWVLCNYDFQARNSEL SVKQRDVLEVLD DSRKWWKVRDPAGQEGYVPYNILTPYPGPRL  
HHSQSPARSLNSTPPPPAPAPAPPPALARPWRDRPRWDSCDSLNGLDPSEKEKFSQMLI  
VNEELQARLAQGRSGPSRAVPGPRAPEPQLSPGSDASEVRAWLQAKGFSSGTVDALGVLT  
GAQLFSLQKEELRAVSPEEGARVYSQVTVQRSLLLEDKEKVSELEAVMEKQKKKVEGEVEM  
EVI

>sp|Q96BH3|ESPB1\_HUMAN Epididymal sperm-binding protein 1 OS=Homo sapiens GN=ELSPBP1 PE=1  
SV=2

MTRWSSYLLGWTTFLLYSYESSGGMHEECVFPFTYKGSVYFTCTHIHSLSPWCATRAVYN  
GQWKYCQSEDYPRCIFPFIYRGKAYNSCISQGSFLGSLWCSVTSVFDEKQQWKFCETNEY  
GGNSLRKPCIFPSIYRNNVSDCMEDES NKLCPTTENMDKDGKWSFCADTRISALVPGF  
PCHFPFNYKNKNYFNCTNEGSKENLVWCATS YNYDQDHTWVYC

>sp|Q6ZVH7|ESPNL\_HUMAN Espin-like protein OS=Homo sapiens GN=ESPNL PE=2 SV=3

MEKQRLVAAKGDVATLERLLEAGALGPGITDALGAGLVHHATRAGHLDCVKFLVQRAQ  
LPGNQRAHNGATPAHDAAATGSLAELCWL VREGGCGLQDQDASGV SPLHLAARFGHPVLV  
EWLLHEGHSATLETREGARPLHHA AVSGDLTCLKLLTAAHGSSVNRRTSGASPLYLACQ  
EGHLHLAQFLVKDCGADVHLRALDGMSALHAAAARGHYSLVVWLVTFDTIGLTARDNEGA  
TALHFAARGGHTPILDRLLMGTPILRDSWGGTPLHDAENGQMECCQTLVSHHVDPSLR  
DEDGYTAADLA EYHGHRC AQYLREVAQPVPLMTPPPPFPPLLATRRSLEDGRRGG  
PGPGNPSPMSLS PAWPGHPDQPLPREQMTSPAPPRIITSATADPEGTETALAGDTS DGLA  
ALQLDGLPSGDIDGLVPTRDERGQPIPEWK RQVMVRKLQARLGAESSAEAQDNGGSSGPT  
EQAAWRYSQTHQAILGPF GELLTEDDLVYLEKQIADLQLRRRCQEYESELGR LAELQAL  
LPEPLVSITVNSHFLPRAPGLEVEEASIPAAEPAGSAEASEVAPGVQPLPFWC SHISRLV  
RSLSLLLKG VHGLVQGDEKPSTRPLQDTCREASASPPRSEAQRQIQEWGVSVRTLRGNFE  
SASGPLCGFNPGCEPGAQHRQCLSGCWPALPKPRSGLASGEPRPGDTEEASDSGISCEE  
VPSEAGAAAAGPD LASLRKERIIMLFLSHWRRSAYTPALKTVACRTL GARHAGLRGQE AAR  
SPGPPSPSPSEGPRLGHLWQQRSTITHLLGNWKAIMAHV PARQLRRLSRQPRGALSPEQFL  
PHVDGAPVPYSSLSLDLFMLGYFQLLECDLPAEERKL RHLLCFEVFEHLGTHGWEAVRAF  
HKAVTDEVAAGRRAWTDGFEDIKARFFGSSQRPAWDTEPGRKSGLTLLGPLPHA AVPCSG  
PEPTAQLGSRSQGSFNGEDICGYINRSFAFWKEKEAEMFNFG E

>sp|Q86US8|EST1A\_HUMAN Telomerase-binding protein EST1A OS=Homo sapiens GN=SMG6 PE=1 SV=2  
MAEGLERVRIASSELRGILATLAPQAGSRENMKELKEARPRKDNRRPDLEIYKPGLSRLR

NKPKIKEPPGSEEFKDEIVNDRDCSAVENGTQPVKDVCKELNNQEQNGPIDPENNRGQES  
FPRTAGQEDRSKIIKRTKKPDLQIYQPGRRLQTVSKESASRVEEEEVLNQVEQLRVEED  
ECRGNVAKEEVANKPDRAEIEKSPGGGRVGAAGKEKGKRMKGEGVRETHDDPARGRPGS  
AKRYSRSDKRRNRYRTRSTSSAGSNNSAEGAGLTDNGCRRRRQDRTKERPRLKKQVSVSS  
TDSLDEDRIDEPDGLGPRRSSERKRHLERNWSGRGEGEQKNSAKEYRGTLRVTFDAEAMN  
KESPMVRSARDDMDRGKPDKGLSSGGKGSEKQESKNPKQELRGRGRGILILPAHTLSVN  
SAGSPESAPLGPRLLFSGSGKSRSWGRGGTTRRLWDPNNPDQKPAKLTQTPQLHFLDTD  
DEVSPTSWGDSRQAQASYKFQNSDNPIYYYPRTPGPASQYPYTGYNPLQYPVGPTNGVYP  
GPYYPGYPTPSGGYVCSPLTSTMSPEEVEQHMRNLQQQLHRLLRVADNQELQLSNLLS  
RDRISPEGLEKMAQLRAELLQLYERCILLDIEFSDNQNVQILWKNIFYQVIEKFRQLVK  
DPNVENPEQIRNRLLELLDEGSDFFDSLLQKLQVTKFKLEDYMDGLAIRSKPLRKTVMY  
ALISAQRCMICQGDIAARYREQASDTANYGKARSWYLKAQHIAPKNRPNQLALLAVYTR  
RKLDVYYYYMRSLAASNPILTAKESLSLFEETKRKAQMEKKQHEEFDLSPDQWRKGKK  
STFRHVGDdTTRLEIWIHPSHPRSSQGTESGKDSEQENGLGSLSPSDLNKRFILSFLHAH  
GKLFTRIGMETFPAVAEKVLKEFQVLLQHSPSPIGSTRMLQLMTINMFAVHNSQLKDCFS  
EECRSVIQEQAAALGLAMFSLVRRCTCLLKESAKAQLSSPEDQDDQDDIKVSSFVPDLK  
ELLPSVKVWSDWMLGYPDTWNPPTSLDLP SHVAVDVWSTLADFCNILTAVNQSEVPLYK  
DPDDDLTLLILEEDRLLSGFVPLLAAPQDPCYVEKTSKIVAADCKRVTVLKYFLEALCG  
QEEPLLAFAKGGKYVSVAPVPDTMGKEMGSQEGTRLEDEEEEDVVIDFEEDSEAEGSGGED  
DIRELAKKLALARKIAEQRRQEKIQAVLEDHSQMRQMELEIRPLFLVPDTNGFIDHLA  
SLARLLESRKYILVPLIVINELDGLAKGQETDHRAGGYARVVQEKARKSIEFLEQRFES  
RDSCLRALTSRGNELESIAFRSEDITGQLGNNDLILSCCLHYCKDKAKDFMPASKEEPI  
RLLREVLLTDDRNLRVKALTRNPVVRDIPAFLTWAQVG

>sp|P23141|EST1\_HUMAN Liver carboxylesterase 1 OS=Homo sapiens GN=CES1 PE=1 SV=2

MWLRAFILATLSASAAWGHPPSPVVDTVHGKVLGKFVSLEGFAQPVAIFLGIPFAKPPL  
GPLRFTPPQPAEPWSFVKNATSYPPMCTQDPKAGQLLSELTNRKENIPLKLSCLYLN  
IYTPADLTCKNRLPVMVWIHGGLMVGAASYDGLALAAHENVVVVTIQYRLGIWGFST  
GDEHSRGNWGHLDQVAALRWVQDNIAFSGGNPGSVTIFGESAGGESVSVLVLSPLAKNLF  
HRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSAMVHCLRQKTEEELLETTLK  
MKFLSLDLQGDPRESQPLLGTVIDGMLLLKTPEELQAERNFHTVPYVMGINKQEFGLIP  
MQLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELIPEATEKYLGGTDDTVKKKDLFLDL  
IADVMFGVPSVIVARNHRDAGAPTYMYEFQYRPSFSSDMKPKTVIGDHGDELFSVFGAPF  
LKEGASEEEIRLSKMVMKFWANFARNGNPNGEGLPHWPEYNQKEGYLQIGANTQAAQKLK  
DKEVAFWTLNFAKKAVEKPPQTEHIEL

>sp|Q5XG92|EST4A\_HUMAN Carboxylesterase 4A OS=Homo sapiens GN=CES4A PE=2 SV=2

MRWILCWSLTCLMAQTALGALHTKRPQVVTYKGTQKGKQMHVGKTPIQVFLGVFSPRPP  
LGILRFAPPEPPEPWKGIRDATTYPPGCLQESWGQLASMYVSTRERYKWLRFSEDCLYLN  
VYAPARAPGDPQLPVMVWFPGGAFIVGAASSYEGSDLAAREKVVLVFLQHRLGIFGLST  
DDSHARGNWGLLDQMAALRWVQENIAAFGGDPGNVTLFGQSAGAMSISGLMMSPLASGLF  
HRAISQSGTALFRLFITSNPLKVAKKVAHLAGCNHNSTQILVNCLRALSGTKVMRVSNNKM  
RFLQLNFQRDPEEIIWSMSPVVDGVVIPPDDPLVLLTQGVSSVPYLLGVNNLEFNWLLPY  
IMKFPLNRQAMRKETITKMLWSTRTLLNITKEQVPLVVEEYLDNVNEHDWKMLRNRMMDI  
VQDATFVYATLQTAHYHRDAGLPVYLYEFEHHARGIIVKPRTDGADHGDEMYFLFGGPFA  
TGLSMGKEKALSLQMMKYWANFARTGNPNDGNLPCWPRYNKDEKYLQLDFTTRVGMKLKE

KKMAFWMSLYQSQRPEKQRQF

>sp|P10768|ESTD\_HUMAN S-formylglutathione hydrolase OS=Homo sapiens GN=ESD PE=1 SV=2

MALKQISSNCKFGGLQKVFHEHDSVELNCKMKFAVYLPKAE TGKCPALYWLSGLTCTEQN  
FISKSGYHQSAHEGLVVIAPDTSRGCNIKGEDES WDFGTGAGFYVDATEDPWKTNYRM  
YSYVTEELPQLINANFPVDPQRMSIFGHSMGGHGALICALKNPGKYKSVSAFAPICNPVL  
CPWGKKA FSGYLGT DQSKWKAYDATHLVKSYPGSQLDILIDQGKDDQFLLDGQLLPDNFI  
AACTEKKIPVVFRLQEGYDHSYFIATFITDHIRHHAKYLNA

>sp|Q16134|ETFD\_HUMAN Electron transfer flavoprotein-ubiquinone oxidoreductase,  
mitochondrial OS=Homo sapiens GN=ETFDH PE=1 SV=2

MLVPLAKLSCLAYQCFHALKIKKNYLPLCATRWSSTSTVPRITTHYTIYPRDKDKRWEGV  
NMERFAEEADVIVGAGPAGLSAAVRLKQLAVAHEKDIRVCLVEKAAQIGAHTLSGACLD  
PGAFKELFPDWKEKGAPLNTPTVEDRFGILTEKYRIPVPILPGLPMNHNHGYIIVRLGHLV  
SWMGEQAEALGVEVYPGYAAAEVLFHDDGSVKG IATNDVG IQKD GAPKATFERGLELHAK  
VTIFAE GCHGLAKLYKKFDLRANCEPQTYGIGL KELWVIDEKNWKPRVDHTVWG WPLD  
RHTYGG SFLYHLNEGEPLVALGLVVG LDYQNPYLSPFREFQRWKHHPSIRPTLEGGKRIA  
YGARALNEG GFSIPKLTFPGGLLIGCSPGFMNVPKIKGHTAMKSGILAAESIFNQLTS  
ENLQSKTIGLHVTEYEDNLKNSVWVKELYSVRNIRPSCHGVLGVYGGMIYTGIFYWILRG  
MEPWT LKHKGSDFERLKP AKDCTPIEYKPDGQISFDLLSSVALSGTNHEHDQPAHLTLR  
DDSI PVNRNLSIYDGPEQRFCPAGVYEFVPVEQGDG FRLQIN AQNCVHCKTCDIKDPSQN  
INWVVEGGGGPAYNGM

>sp|Q6IPR1|ETFR1\_HUMAN Electron transfer flavoprotein regulatory factor 1 OS=Homo sapiens  
GN=ETFRF1 PE=1 SV=2

MKMANS LRGEVLKLYKNLLYLGRDYPKGADYFKKRLKNIFLKNKDVKNPEKIKELIAQGE  
FVMKELEALYFLRKYRAMKQRYYS DTKNTN

>sp|P14921|ETS1\_HUMAN Protein C-ets-1 OS=Homo sapiens GN=ETS1 PE=1 SV=1

MKA AVDLKPTLTIIKTEKVDLELFPSPDMECADVPLLT PSSKEMMSQALKATFSGFTKEQ  
QRLGIPKDPRQWTETHVRDWMWAVNEFSLKGVDFQKFCMNGAALCALGKDCFLELAPDF  
VGDILWEHLEILKQEDVKPYQVNGVNPAYPESRYTSDYFISYGIEHAQCVPPSEFSEPSF  
ITESYQTLHPISSEELLSLKYENDYPSVILRDPLQTDLTQNDYFAIKQEVVTPDNMCMGR  
TSRGKLG GQDSFESIESYDSCDRLTQSWSSQSSFNSLQRVPSYDSFDS EDYPAALPNHKP  
KGTFKDYVRDRADLNKDKPVI PAAALAGYTGSGPIQLWQFLELLTDKSCQSFISWTGDG  
WEFKLSDPDEVARRWGKRKNKPKMNYEKL SRGLRYYYDKNI IHKTAGKRYVYRFVCDLQS  
LLGYTPEELHAMLDVKPDADE

>sp|Q9Y603|ETV7\_HUMAN Transcription factor ETV7 OS=Homo sapiens GN=ETV7 PE=1 SV=1

MQEGELAI SPISPAAMPPLGTHVQARCEAQINLLGEGGICKLPGRRLRIQPALWSREDVL  
HWLRWAEQEYSLPCTAEHGFEMNGRALCILTKDDFRHRAPSSGDVLYELLQYIKTQRRAL  
VCGPFFGGIFRLKTPTQHSPVPPEEVTGPSQMDTRRGHLLQPPDPGLTSNFGHLDDPGLA  
RWTPGKEESLNLCHCAELGCRTQGVCSFPAMPQAPIDGRIADCRLLWDYVYQLLLDTRYE  
PYIKWEDKDAKIFRVDPNGLARLWGNHKNRVNMTYEKMSRALRHYYKLNI IKKEPGQKL  
LFRFLKTPGKMVQDKHSHLEPLESQEQDRIEFKDKRPEISP

>sp|P58658|EVA1C\_HUMAN Protein eva-1 homolog C OS=Homo sapiens GN=EVA1C PE=2 SV=1

MLLPGRARQPPTQPVQHPGLRRQVEPPGQLRLFYCTVLVCSKEISAL TDFSGYLTKLL  
QNHTTYACDGDYLNLCPRHSTISVQSAFYGQDYQMCSSQKPASQREDSLTCAATTFQK  
VLDECQNRACHLLVNSRVFGPDLC PGSSKYLLVSFKCQPNELKNKTVCEDQELKLHCHE



SKFLNIYSATYGRRTQERDICSSKAERLPPFDCLSYSALQVLSRRCYGKQRCKIIIVNNHH  
FGSPCLPGVKKYLTVTYACVPKNILTAIDPAIANLKPSLKQKDGEGYGINFDPSGSKVLRK  
DGILVSNLSAAFAYIRAHPERAALLFVSSVCIGLALTLCALVIRESCAKDFRDLQLGREQ  
LVPGSDKVEEDSEDEEEEDPSESDFPGELSGFCRTSYPIYSSIEAAELAERIERREQII  
QEIWMNSGLDTS�PRNMGGFY

>sp|060447|EVI5\_HUMAN Ecotropic viral integration site 5 protein homolog OS=Homo sapiens  
GN=EVI5 PE=1 SV=3

MVTNKMTAAFRNPSGKQVATDKVAEKLSSTLSWVKNTVSHTVSQMASQVASPSTSLHTTS  
SSTTLSTPALSPSSPSQLSPDDLELLAKLEEQRNRLLETDSKSLRSVNGSRRNSGSSLVSS  
SSASSNLSHLEEDSWILWGRIVNEWEDVRKKKEKQVKELVHKGIPHHFRAIVWQLLCSAQ  
SMPIKDQYSELLKMTSPCEKLIIRRDARTYPEHNFFKEKDSLGGQEVLFNVMKAYSLVDRE  
VGYCQGSASFIVGLLLMQPEEEAFVVFVKLMQDYRLRELFKPSMAELGLCMYQFECMIQE  
HLPELFVHFQSQSFHTSMYASSWFLTIFLTTFPLPIATRIFDIFMSEGLEIVFRVGLALL  
QMNQAEMLQDMEGMLQHFQKVIHQFDGVPDKLIQAAYQVKYNSKKMKKLEKEYTTIKT  
KEMEEQVEIKRLRTENRLLKQRIETLEKHKCSSNYNEDFVLQLEKELVQARLSEAESQCA  
LKEMQDKVLDIEKRNNSLPDENNIARLQEELIAVKLREAEAIMGKELRQQVKDLEEHWQ  
RHLARTTGRWKDPPKKNAMNELQDELMTIRLREAETQAEIREIKQRMEMETQNNINSNH  
LRRAEQEVISLQEKVQYLSAQNKGLLTQLSEAKRKQAEIECKNKEEVMVRLREADSIAA  
VAELRQHIAELEIQKEEGKLQGQLNKSDSNQYIGELKDQIAELNHELRLCLKGQRGFSGQP  
PFDGIHIVNHLIGDDESFSDEDFIDNSLQETGVGFPLHGKSGSMSLDPAAVADGSESET  
EDSVLETRESNQVVQKERPPRRRESYSTTV

>sp|P49640|EVX1\_HUMAN Homeobox even-skipped homolog protein 1 OS=Homo sapiens GN=EVX1  
PE=2 SV=1

MESRKDMVVFLDGGQLGTLVGKRVSNLSEAVGSPLPEPPEKMVPRGCLSPRAVPPATRER  
GGGGPEEPPVDGLAGSAAGPGAEPQVAGAAMLGPGPPAPSVDSLGGQGPSSSDTESDFY  
EEIEVSCTPDCATGNAEYQHSKSGSEALVGSPNGGSETPKSNGSGGGGSQGTACSAS  
DQMRRYRTAFTREQIARLEKEFYRENYVSRPRCELAAALNLPETTIVWFQNRMRMDKR  
QRLAMTWHPADPAFYTYMMSHAAAAGGLPYFPFPHLPLPYSPVGLGAASAASAAASPF  
SGSLRPLDTRFVLSQPYPRPELLCAFRHPPLYPGPAHGLGASAGGPCSCLACHSGPANG  
APRAAAAASDFTCASTSRSDSFLTFAPSVLSKASSVALDQREEVPLTR

>sp|Q86VI1|EX3L1\_HUMAN Exocyst complex component 3-like protein OS=Homo sapiens  
GN=EXOC3L1 PE=2 SV=2

MDSAAKDEMQPALSPGPEWPEQERAEQLARGAALKWASGIFYRPEQLARLGQYRSREVQR  
TCSLESRLKSVMQSYLEGVQTGVWQLAQAIIEVVQGTREALSQARGLLQGMSQALQTLEPL  
RERVAQHKLQALSHLLPRLRAVPAAVSHTQTLIDGQQFLEAYVSLRELEQLREDTWAPL  
GGLELPVFQGLDLLFEALGQAVEAAAAGAAGKLAREDPALLVAVRVAEVETGRTTPLGQV  
PRDWRQRCLRALQEGLEQAHFGSPLLPAPGALPGWLEALRVLPVELATAEALVAPCCPP  
QYNVVQLWAHTLHSGLRRLSQLNLAGPELEAADAFALLHWALHVYLGQEMMGSLGPEA  
DVSQLEPLLTLENIEQLEATFVANIQASVSQWLQNALDGEVAEWGREHGPNTDPSGSYYS  
PMPAIVLQILEENIRVASLVSESLQQRVHGMALSELGTFLRSFSDALIRFSRDHFRGKSM  
APHYVPYLLAALNHKSALSSSVSVLQLDGAPSGALAPVEAALDELQRRIRYRLVLEALQAE  
LQPLFADLPSRQWLSSPELLQSVCERTGRFCRDFWRVRNPTVQLLLAEAEARAVVLQYLSA  
LMQGRVLCRGADERTQAAERLRHDAALQQLFLSLGLEENAHCAPVLLALRELLNLRDPA  
LLGLEVAGLRQQFPDVSSEHVSALLGLRGDLSREQHLAALSSSLQAALPPSPRASRRVLFS

LVPAPALAPASCLPSGSCARALLAE

>sp|Q9Y2D4|EXC6B\_HUMAN Exocyst complex component 6B OS=Homo sapiens GN=EXOC6B PE=1 SV=3

MERGKMAEAESELETAEEHERILREIESTDTACIGPTLRSVYDGEHGRFMEKLETRIRNH  
DREIEKMCNFHYQGFDVSTITELKVRGEAQKLKNQVTDNKRKLQHEGKELVIAMEELKQC  
RLQQRNISATVDKMLCLPVLEMYSKLRDQMKTKRHYPALKTLEHLEHTYLPQVSHYRFC  
KVMVDNIPKLREEIKDVSMSDLKDFLESIRKHSDKIGETAMKQAQQQRNLDNIVLQQPRI  
GSKRKSCKDAYIIFDTEIESTSPKSEQDSGILDVEDEEDDEEVPGAQDLVDFSPVYRCLH  
IYSVLGARETFENYRKQRRKQARLVLPSPNMHETLDGYRKYFNQIVGFFVVEDHILHT  
TQGLVNRAYIDELWEMALSKTIAALRTHSSYCSDPNLVLDLKNLIVLFADTLQVYGFPVN  
QLFDMLEIRDQYSETLLKKWAGIFRNILSDNYSPIPVTSSEMYKKVVGQFPFQDIELE  
KQPFPPKFPFSEFPKVYNQIKEFIYACLKFSEDLHLSSTEVDMMIRKSTNLLLTRTLSN  
SLQNVIKRKNIGLTELVIITHTLEKSKYLEEFITNITNVLPETVHTTKLYGTTTFK  
DARHAAEEEEIYTNLNQKIDQFLQLADYDWMTGDLGNKASDYLVDLIAFLRSTFAVFTPLP  
GKVAQTACMSACKHLATSLMQLLLEAEVRQLTLGALQQFNLDVRECEQFARSGPVPGFQE  
DTLQLAFIDLRQLDLFIQWDWSTYLADYGQPNCKYLRVNPVTALTLEKMKDTSRKNNM  
FAQFRKNERDKQKLIDTVAKQLRGLISSHHS

>sp|Q9UQ84|EXO1\_HUMAN Exonuclease 1 OS=Homo sapiens GN=EXO1 PE=1 SV=2

MGIQGLLQFIKEASEPIHVRKYKGQVAVDTCWLHKGAIAEKLAKGEPTDRYVGFCM  
KFVNMLLSHGKIPILVFDGCTLPSSKEVERSRERRRQANLLKKGKQLLREGKVSEARECFT  
RSINITHAMAHKVIKAARSQGVDCLVAPYEADAQLAYLNKAGIVQAIITEDSDLLAFGCK  
KVILKMDQFGNGLEIDQARLGMCRQLGDVFTEEFKRYMCILSGCDYSSLRGIGLAKACK  
VLRANPNPDIVKVIKIGHYLMKNITVPEDYINGFIRANNTFLYQLVFDPIKRKLIPLNA  
YEDDVPETLSYAGQYVDDSIQALGNKDINTFEQIDDPNDTAMPAHSRSHSWDDKT  
CQKSANVSSIWHRNYSRPESGTVSDAPQLKENPSTVGVERVISTKGLNLPRKSSIVKRP  
RSAELSEDDLLSQYSLSFTKTKKNSSEGKSLSFSEVFVPDLVNGPTNKKSVSTPPRTR  
NKFATFLQRKNEESGAVVVPGRSRFFCSDSTDCVSNKVSQPLDETAFTDKENNLHES  
EYGDQEGKRLVDTDVARNSSDDIPNNHIPGDHIPDKATVFTDEESYSFESSKFTRTISPP  
TLGTLRSCFSWSGGLGDFSRTPSPSPSTALQQFRRKSDSPTSLPENNMDSVSLKSEESS  
DDESHPLREEACSSQSQESGEFSLQSSNASKLSQCSSKSDSEESDCNIKLLDSQSDQTS  
KLRLSHFSKKDTPLRNKVPGLYKSSSADSLSTTKIKPLGPARGSLKPKPASIQRKHHN  
AENKPLQIKLNLWKNFGFKDKSEKLPPCKKPLSPVRDNIQLTPEAEEDIFNKPECGRV  
QRAIFQ

>sp|Q96D98|EID2B\_HUMAN EP300-interacting inhibitor of differentiation 2B OS=Homo sapiens  
GN=EID2B PE=1 SV=2

MAEPTGLLEMSSELPDSSVPQVGTASGVSDVLRGAVGGGVRVQEAREGPVAEAARSMARM  
PGPVPGPPISSVPLASAPDPHQQLAFLEINRQLLFREYLDGSSMIPVRLLRDFEERRRL  
FVEGCKAREAAFDADPPQMDFAAVAFVTALTASEALSPLAD

>sp|Q8N6I1|EID2\_HUMAN EP300-interacting inhibitor of differentiation 2 OS=Homo sapiens  
GN=EID2 PE=1 SV=3

MSKLPADSSVPQTGAANGDRDVPQAEVGRGRREPAPAQPEEAGEGAMAAARGGPVPAARE  
GRMAAARAAPAAAARGAPVAAAALAAAAAGRESPAAAAAREARMAEVARLLGEPVDEEG  
PEGRPRSRHGNGGLAALPYLRRLRHPLSVLGINYQQFLRHYLENYPIAPGRIQELEERRRR  
FVEACRAREAAFDAEYQRNPHRVDLDILTFTIALTASEVINPLIEELGCDKFINRE

>sp|000303|EIF3F\_HUMAN Eukaryotic translation initiation factor 3 subunit F OS=Homo sapiens GN=EIF3F PE=1 SV=1

MATPAVPVSAPPATPTPVPAAPASVPAPTAPAAAPVPAAPASSSDPAAAAAATAAPG  
QTPASQAQAQTPAPALPGPALPGFPFGRVRLHPVILASIVDSYERRNEGAARVIGTL  
LGTVDKHSVEVTNCFVPHNESEDEVAVDMEFAKNMYELHKKVSPNELILGWYATGHDIT  
EHSVLIHEYYSREAPNPIHLTVDTSLQNGRMSIKAYVSTLMGVPGRTMGVMFTPLTVKYA  
YYDTERIGVDLIMKTCFSPNRVIGLSSDLQQVGGASARIQDALSTVLQYAEDVLSGKVSA  
DNTVGRFLMSLVNQVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIALNEKLVNL

>sp|075822|EIF3J\_HUMAN Eukaryotic translation initiation factor 3 subunit J OS=Homo sapiens GN=EIF3J PE=1 SV=2

MAAAAAAGDSDSWDADAFSVEDPVRKVGGGGTAGGDRWEGEDEDEDVKDNWDDDDDEKK  
EEAEVKPEVKISEKKKIAEKIKEKERQQKKRQEEIKKRLEEPEEPKVLTPEEQLADKLRL  
KKLQEESDLELAKETFGVNNNAVYVIDAMNPSSRDDFTFGKLLKDKITQYEKSLYYASFL  
EVLVRDVCISLEIDDLKKITNSLTVLCSEKQKQEKQSKAKKKKKGVVPGGGLKATMKDDL  
ADYGGYDGGYVQDYEDFM

>sp|Q14576|ELAV3\_HUMAN ELAV-like protein 3 OS=Homo sapiens GN=ELAVL3 PE=2 SV=3

MVTQILGAMESQVGGGPAGPALPNGPLLGTNGATDDSKTNLIVNYLPQNMTQDEFKSLFG  
SIGDIESCKLVDRDKITGQSLGYGFVNYSNDPNDADKAINTLNLKLQTKTIKVSYPSSA  
SIRDANLYVSGLPKTMQKEMEQLFSQYGRITSRILVDQVTGVSARGVGFIRFDKRIEAE  
EAIKGLNGQKPLGAAEPITVKFANNPSQKTGQALLTHLYQSSARRYAGPLHHQTQRFRLD  
NLLNMAYGVKSPLSLIARFSPIDGMSGLAGVGLSGGAAGAGWCIFVYNLSPEADESVL  
WQLFGPFGAVTNVKVIRDFTTNCKGFGFVTMTNYDEAAMAIAASLNGYRLGERVLQVSFK  
TSKQHKA

>sp|P26378|ELAV4\_HUMAN ELAV-like protein 4 OS=Homo sapiens GN=ELAVL4 PE=1 SV=2

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EFRSLFGSIGEIESCKLVDRDKITGQSLGYGFVNIDPKDAEKAINTLNGLRLQTKTIKVS  
YARPSSASIRDANLYVSGLPKTMQKELEQLFSQYGRITSRILVDQVTGVSARGVGFIRF  
DKRIEAEAEAIKGLNGQKPSGATEPITVKFANNPSQKSSQALLSPLYQSPNRRYPGPLHHQ  
AQRFRDLNLLNMAYGVKRLMSGVPVPSACPPRFSPITIDGMTSLVGMNIPGHTGTGWCIF  
VYNLSPDSDESVLWQLFGPFGAVNNVKVIRDFNTNKCKGFGFVTMTNYDEAAMAIAASLNG  
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>sp|Q99607|ELF4\_HUMAN ETS-related transcription factor Elf-4 OS=Homo sapiens GN=ELF4 PE=1 SV=1

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PDSDPAPAVTLPNYLPASEPDALNRAGDTSQEGHSLEEKASREESAKKTGKSKKRIRK  
TKGNRSTSPVTDPSIPIRKKSCKGKSTIYLWEFLALLQDRNTCPKYIKWTQREKGFIFK  
LVDSKAVSKLWGKQKNKPDNMYETMGRALRYYYQRGILAKVEGQRLVYQFKEMPKDLVVI  
EDEDESSEATAAPPQASTASVASASTTRTSSRVSSRSAPQKGSSSWEKPKIQHVGLQP  
SASLELGPSTDEEIPTTSTMLVSPAEGQVKLTAVSASSVPSNIHLGVAPVSGSALTQ  
TIPLTTVLTNGPPASTTAPTQLVLQSVPAASTFKDTFTLQASFPLNASFQDSQVAAPGAP  
LILSGLPQLLAGANRPTNPAPPTVTGAGPAGPSSQPPGTVIAAFIRTSGTAAAPRVKEGP  
LRSSSYVQGMVTGAPMEGLLVPEETLRELLRDQAHQLPLTQVVSRGSHNPSLLGNQTLS  
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HDI

>sp|Q96EB1|ELP4\_HUMAN Elongator complex protein 4 OS=Homo sapiens GN=ELP4 PE=1 SV=2

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LLVSTGLPALDQLLGGGLAVGTVLLIEEDKYNIYSPLLFKYFLAEGIVNGHTLLVASAKE  
DPANILQELPAPLLDDKCKKEFDEDVYNHKTPESTNIKMKIARYQLLPKMEIGPVSSSRF  
GHYYDASKRMPQELIEASNWHGFFLPEKISSSTLKVEPCSLTPGYTKLLQFIQNI IYEEGF  
DGSNPQKKQRNLRIGIQNLGSPWLWDDICCAENGNSHSLTKFLYVLRGLLRTSLSACI  
ITMPHLIQNKAI IARVTTLSDVVVGLESFIGSERETNPLYKDYHGLIHIRQIPRLNNLI  
CDESDVKDLAFKLKRKLFITIERLHLPDLSDTVSRSSKMDLAESA KRLGPGCGMMAGGKK  
HLDF

>sp|Q05BV3|EMAL5\_HUMAN Echinoderm microtubule-associated protein-like 5 OS=Homo sapiens  
GN=EML5 PE=2 SV=3

MAARSAPSCHLRLEWVYGYRGHQCRNNLYYTAAKEIVYFVAGVGVVYSPREHRQKFYRGH  
SDDIISLALHPERVLVATGQVGKEPYICIWDSYTVQTISVLKDVHTHGIACLAFDLGQR  
LVSVGLDSKNAVCVWDWKRGMKLSMAPGHTDRIFDISWDLYQPNKLVSCGVKHIKFWSLC  
GNALTPKRGVFGKTGDLQTI LCLACARDEL TYS GALNGDIYVWKGINLIRTIQGAHAAGI  
FSMNACEEGFATGGRDGCIRLWDLTFKPITVIDLRETDQGYKGLSVRSVCWRGDHILVGT  
QDSEIFEIVVQERNKPFLIMQGHCEGELWALAVHPTKPLAVTGSDDRSVRIWSLVDHALI  
ARCNMEEPIRCAAVNADGIHLALGMKDGSTVLRVRDMTEVVHIKDRKEA IHELKYS PDG  
TYLAVGCNDSSVDIYGAQRYKKVGECLGSLSFITHLDWSSDSRYLQTNDGNGKRLFYRM  
PGGKEVTSTEEIKGVHWASWTCVSGLEVNGIWPKYSDINDINSVDGNYIGQVLVTADDYG  
I IKLFRYPCLRKGA KFRKYIGHSAHVTNVRWSHDYQWVISIGGADHSVFQWKFI PERKLK  
DAVHIAPQESLADSHSDESDDLSDVPELSEIEQETQLTYRRQVYKEDLPQLKEQCKEK  
QKSATSKRRERAPGNSIRLHFVHGYRGYDCRSNLFYTQIGEIVYHVAAGV IYNRQQNTQ  
RFYLGHDDDLCLTIHPLKDYVATGQVGRDPSIHIWDTETIKPLSILKGHHQYGVSAVDF  
SADGKRLASVGIDDSHTVVLWDWKKGEKLSIARGSKDKIFVVKMNPYPDKLITAGIKHM  
KFWRKAGGGLIGRKGYIGTLGKNDTMMCAVYGWTEEMAFSGTSTGDVCIWRDIFLVKTVK  
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IRAI SLGHGHILVGTNGEILEVDKSGPITLLVQGHMEGEVWGLATHPYLPICATVSDDK  
TLRIWDLSPSHCMLAVRKLKKGRRCCCFSPDGKALAVGLNDGSFLMANADTLEDLVSFHH  
RKDMISDIRFSPGSGKYLA VASHDSFIDIYVMSSKRVGICKGATSYITHIDWDIRGKLL  
QVNTGAKEQLFFEAPRGKKQTIPSVEVEKIAWASWTSVLGLCCEGIWVPVIGEVTDVTASC  
LTSDKMVLATGDDLGFVKLFRYPTKGKFGKFKRYVAHSTHVTNVRWYDDSMVLTLGGTD  
MSLMVWTNEMEGYREKRPCDSEESDIDSEEDGGYDSDV TRENEISY TIRALSTNIRPMLG  
IKPHLQQKEPSIDERPPVSRAPPQPEKLQTNNVGKKRPIEDLVLELIFGYRGRDCRNNV  
HYLNDGDDI IYHTASVGILHN VATGSQS FYQEHNDDILCLTVNQHPKF INIVATGQVGDS  
ADMSATAPSIHIWDMNKQTLSILRCYHSKGVC SVSFSATGKLLSVGLDPEHTITIWRW  
QEGAKIASRAGHNQRIFVAEFRPDSDTQFVSVGVKHVKFWTLAGRALLSKKGLSTLEDA  
RMQTMLAIAFGANNLTFTGTISGDVCVWKDHILCRIVARA HNGPVFAMYTTLRDGLIVTG  
GKERPSKEGGAVKLWDQELRRCAFRL ETGQATDCVRSVCRGKGKILVGTRNAE IIEVGE  
KNAACNILVNGHVDGPIWGLATHPSRDFFLSAAEDGTVRLWDIADKMLNKVNLGHAART  
VCYSPEGDMVAIGMKNGEFI ILLVSSLKIWGKKRDRRC AIHDIRFSPDSRYLAVGSSENS  
VDFYDLTLGPTLNRISYCKDIPSFVIQMDFSADSSYLQVSSG CYKRHVYEVPSGKHLMDH  
AAIDRITWATWTSILGDEV LGIWSRHA EKADVNCACVSHSGISLVTGDDFGMVKLFDFPC

PEKFAKHKRFLGHSPHVTNIRFTSGDRHVVSAGGDDCSLFVWKC VHTPH

>sp|Q96AY2|EME1\_HUMAN Crossover junction endonuclease EME1 OS=Homo sapiens GN=EME1 PE=1 SV=2

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SVLDHQNNEGASCDWKKPFPIPEVPLHDTPERSAADNKDLILDPCQLPAYLSTCPGQS  
SSLAVTKTNSDILPPQKKTGPSQKVQGRGSHGCRQQRQARQKESTLRRQERKNAALVTRM  
KAQRPEECKHIIIVLDPVLLQMEGGGQLLGALQTMECRCVIEAQAVPCSVTWRRRAGPS  
EDREDWVEEPTVLVLLRAEAFVSMIDNGKQGSGLDSTMKGKETLQGFVTDITAKTAGKALS  
LVIVDQEKCFSAQNPPRRGKQGANKQTKKQQRQPEASIGSMVSRVDAEEALVDLQLHTE  
AAQAIQVQSWKELADFTCAFTKAVAEAPFKKLRETTFSFCLESDWAGGVKVDLAGRGLAL  
VWRRQIQQLNRVSLEMASAVVNAYPSPQLLVQAYQQCFSDKERQNLADIQVRRGEGVTS  
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>sp|O14682|ENC1\_HUMAN Ectoderm-neural cortex protein 1 OS=Homo sapiens GN=ENC1 PE=1 SV=2

MSVSVHENRKSASSGSINIYLFHKSSYADSVLTHLNLRQQRLFTDVLLHAGNRTFPCH  
RAVLAACSRYFEAMFSGGLKESQDSEVNFDNSIHPEVLELLLDYAYSSRVIINEENAESL  
LEAGDMLEFQDIRDACAFLKLNHPTNCLGMLLLSDAHQCTKLYELSWRMCLSNFQTIR  
KNEDFLQLPQDMVVQLLSSELETERLVYESAINWISYDLKKRYCYPELLQTVRLAL  
LPAIYLMENVAMEELITKQRKSKEIVEEAIKCKLKILQNDGVVTSLCARPRKTGHAFLL  
GGQTFMCDKLYLVDQKAKEIIPKADIPSPRKEFSACAIGCKVYITGGRGSENGVSKDVVW  
YDTLHEEWSKAAPMLVARFGHGSALKHCLYVVGHTAATGCLPASPSVSLKQVEHYDPT  
INKWTMVAPLREGVSNAAVVSAKLKLFAGGTSVSHDKLPKVQCYDQCENRWTVPATCPQ  
PWRYTAAAVLGNQIFIMGGDTEFSACSAYKFNSETYQWTKVGDVTAKRMSCHAVASGNKL  
YVVGGYFGIQRCKTLDCYDPTLDVWNSITTPYSLIPTAFVSTWKHLPS

>sp|Q9UHY7|ENOPH\_HUMAN Enolase-phosphatase E1 OS=Homo sapiens GN=ENOPH1 PE=1 SV=1

MVLSVPAEVTVILLDIEGTTTPIAFVKDILFPYIEENVKEYLQTHWEEECQQDVSLLR  
KQAEEDAHLDGAVPIPAASNGVDDLQQMIQAVVDNVCWQMSLDRKTTALKQLQGHMWRA  
AFTAGRMKAFFADVPAVRKWREAGMKVYIYSSGSVEAQKLLFGHSTEGDILELDVGHF  
DTKIGHKVESESRYKIADSIGCSTNNILFLTDVTREASAAEEADVHVAVVVRPGNAGLTD  
DEKTYYSLITSFSELYLPSST

>sp|Q52LR7|EPC2\_HUMAN Enhancer of polycomb homolog 2 OS=Homo sapiens GN=EPC2 PE=1 SV=2

MSKLSFRARALDAKPLPIYRGKDMPDLNDCVSNRAVPQMPTGMEKEESEHHLQRAIS  
AQQVFREKKESMIVPPEAESNVNYYNRLYKGEFKQPKQFIHIQPFNLDNEQPDYMDSE  
DETLLNRLNRKMEIKPLQFEIMIDRLEKASSNQLVTLQEAKLLNEDDYLIKAVYDYVVR  
KRKNCRGPSLIPQIKQEKRDGSTNNDPYVAFRRRTEKMQRKNRKNDEASYEKMCLKRRE  
FSRAITILEMIKRREKTKRELLHLTLEVVEKRYHLGDYGGEILNEVKISRSEKELYATPA  
TLHNGNHHKVQECKTKPHHLSLKEEASDVVRQKKKYPKKPKAEALITSQQPTPETLPVI  
NKSDIKQYDFHSSDEDEFPQVLSPVSEPEEENDPDGCAFRRRAGCQYYAPRLDQANHSC  
ENSELADLDKLRHRCLTTLTVPRRCIGFARRRIGRGGRVIMDRISTEHDVPLKQIDPEM  
LNSFSSSSQTIDFSSNFSRTNASSKHCENRLSLSEILSNIRSCRLQCFQPRLLNLQSDS  
EECTSRKPGQTVNNKRVSAASVALLNTSKNGISVTGGITEEQFQTHQQQLVQMQRQQLAQ  
LQQKQSQSHSSQQTTPKAQGSSTSDCMSKTLDSASAHFAASAVVSAPVPSRSEVAKEQNT  
GHNNINGVVQPSGTSKTLYSTNMALSSSPGISAVQLVRTVGHTTTNHLIPALCTSSPQTL  
PMNNSCLTNAVHLNNVSVVSPNVHINTRTSAPSPTALKLATVAASMDRVPKVTPSSAIS

SIARENHEPERLGLNGIAETTVAMEVT

>sp|Q5JZY3|EPHAA\_HUMAN Ephrin type-A receptor 10 OS=Homo sapiens GN=EPHA10 PE=1 SV=2

METCAGPHPLRLFLCRMQLCLALLLGPWRPGTAEVILLDSKASQAELGWTALPSNGWEE  
ISGVDEHDRPIRTYQVCNVLEPNQDNWLQTGWISRGGRQIRIFVELQFTLRDCSSIPGAAG  
TCKETFNVYYLETEADLGRGRPRLGSSRPRIKIDTIAADESFTQGDGGERKMKLNTEVREI  
GPLSRRGFHLAFQDVGACVALVSVRVYYKQCRATVRGLATFPATAAESAFSTLVEVAGTC  
VAHSEGEPPSPRMHCGADGEWLPVVGRCSCSAGFQERGDCEACPPGFYKVSRRPLCS  
PCPEHSRALENASTFCVCQDSYARSPTDPPSASCTRPPSAPRDLQYSLRSPLVLRRLRWL  
PPADSGGRSDVTYSLCLRCGREGPAGACEPCGPRVAFLLPRQAGLRERAATLLHLRPGAR  
YTVRVAALNGVSGPAAAAGTTAQTSTGPGAPWEEDEIRRDRVEPQSVSLSWREPIPA  
GAPGANDTEYEIRYYEKQSEQTYSMVKTGAPTVTVTNLKPATRYVFQIRAASPGPSWEA  
QSFNPSIEVQTLGEAASGRDQSPAIVTVTVTISALLVLGSMVSLAIWRRPCSYGKGGG  
DAHDEEELYFHFVKVPTRRFTLDPQSCGDLQAVHLFAKELDAKSVTLERSLGGGRFGELC  
CGCLQLPGRQELLVAVHMLRDSASDSQRLGFLAEALTLGQFDHSHIVRLEGVVTRGSTLM  
IVTEYMSHGALDGLRRHEGQLVAGQLMGLLPGLASAMKYLSEMGYVHRGLAARHVLVSS  
DLVCKISGFGRGPRDRSEAVYTTMSGRSPALWAAPETLQFGHFSSASDVWSFGIIMWEVM  
AFGERPYWDMSGQDVIKAVEDGFRLLPPRNCNLLHRLMLDCWQKDPGERPRFSQIHSIL  
SKMVQDPEPPKCALTTCPRPPTPLADRAFSTFPSFGSVGAWLEALDLCRYKDSFAAAGYG  
SLEAVAEMTAQDLVSLGISLAEHREALLSGISALQARVLQLQGQGVQV

>sp|O15197|EPHB6\_HUMAN Ephrin type-B receptor 6 OS=Homo sapiens GN=EPHB6 PE=1 SV=4

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VLDDQRRRLTRTFEACHVAGAPPGTGQDNWLQTHFVERRGAQRAHIRLHFSVRACSSLGVS  
GGTCRETFTLYRQAEPEPSPDSVSSWHLKRWTKVDTIAADESFSSSSSSSSSSAAWA  
VGPHGAGQAGLQLNVKERSFGPLTQRGFYVAFQDTGACLALVAVRLFSTCPAVLRSFA  
SFPETQASGAGGASLVAAGVTCVAHAPEEDGVGGQAGGSPRLHCNGEGKMMVAVGGCR  
CQPGYQPARGDKACQACPRGLYKSSAGNAPCSPCPARSHAPNPAAPVCPCLEGFYRASSD  
PPEAPCTGPPSAPQELWFEVQGSALMLHWRLPRELGGRGDLLFNVCKECEGRQEPASGG  
GGTCHRCRDEVHFDPRQRLTESRVLVGGRLRAHVPILEVQAVNGVSELSPDPPQAAAIN  
VSTSHEVPSAVPVVHVQVSRASNSITVSWPQPDQTNIGNILDYQLRYDQAEDESHSFTLTS  
ETNTATVTQLSPGHIYGFQVRARTAAGHGPYGGKVYFQTLPGELSSQLPERLSLVIGSI  
LGALAFLLAAITVLAVVFQRKRRTGYTEQLQYSSPGLGVKYYIDPSTYEDPCQAIRES  
LAREVDPAYIKIEEVIGTGSFGEVRQGRLLQPRGRREQTVATQALWAGGAESLQMTFLGRA  
AVLGQFQHPNILLREGVVTKSRLMVLTEFMELGPLDSFLRQREGQFSSLQLVAMQRGVA  
AAMQYLSSFAFVHRSLSAHSVLVNSHLVCKVARLGHSPQGPSCLLRWAAPEVIAHGKHTT  
SSDVWSFGILMWEVMSYGERPYWDMSEQEVLNATIEQEFRLPPPGCPPGLHLLMLDTWQK  
DRARRPHFDQLVAAFDKMIRKPDTLQAGGDPGERPSQALLTPVALDFPCLDSPQAWLSAI  
GLECYQDNFSKFGLCCTFSQVQSLQSLDLPALGITLAGHQKLLHHIQLLQQLRQGSVE  
V

>sp|O95925|EPP1\_HUMAN Eppin OS=Homo sapiens GN=EPPIN PE=1 SV=1

MGSSGLLSLLVLFVLLANVQGPGLTDWLFPRRCPKIRECECFQERDVCTKDRQCQDNKKC  
CVFSCGKKCLDLKQDVCEMPKETGPCLAYFLHWYDKDNTCSMFVYGGCQGNNNNFQSK  
ANCLNTCKNKRFP

>sp|Q9C0D9|EPT1\_HUMAN Ethanolaminephosphotransferase 1 OS=Homo sapiens GN=EPT1 PE=1 SV=3

MAGYEYVSPEQLAGFDKYKYSVDTNPLSLYVMHPFWNTIVKVFPTWLAPNLITFSGFLL

VVFNFLLMAYFDPDFYASAPGHKHVPDWVWIVVGILNFVAYTLDGVDGKQARRTNSSTPL  
GELFDHGLDSWSCVYFVVTVYSIFGRGSTGVSFVLYLLLWVVLFSFILSHWEKYNTGIL  
FLPWGYDISQVTISFVYIVTAVVGVEAWYEPFLFNFLYRDLFTAMIIGCALCVTLPMSELL  
NFFRSYKNNTLKLNSVYEAMVPLFSPCLLFILSTAWILWSPSDILELHPRVFYFMVGTAF  
ANSTCQLIVCQMSSTRCPTLNWLLVPLFLVLVVLVNLGVASYVESILLYTLTTAFTLAHIH  
YGVRVVKQLSSHFIYPFSLRKPNSDULGMEEKNIGL

>sp|Q9NQ60|EQTN\_HUMAN Equatorin OS=Homo sapiens GN=EQTN PE=2 SV=2

MNFILFIFIPGVFSLKSSTLKPTIEALPNVLP LNEDVNKQEEKNEDHTPNYAPANENKNGN  
YYKDIKQYVFTTQNPNGTESEISVRATTDLNFALKNDKTVNATTYEKSTIEEETTSEPS  
HKNIQRSTPNVPAFWTMLAKAINGTAVVMDDKDQLFHP IPESDVNATQGENQPDLEDLKI  
KIMLGISLMTLLL FVLLAFCSATLYKLRLSYKSCESQYSVNPELATMSYFHPSEGVSD  
TSFSKSAESSTFLGTSSDMRRSGTRTSESKIMTDIISIGSDNEMHENDESVTR

>sp|P21860|ERBB3\_HUMAN Receptor tyrosine-protein kinase erbB-3 OS=Homo sapiens GN=ERBB3  
PE=1 SV=1

MRANDALQVLGLLFSLARGSEVGNQAVCPGTLNGLSVTGDAENQYQTLTKLYERCEVVM  
GNLEIVLTGHNADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVM  
LNYNTSSSHALRQLRLTQLTEILSGGVYIEKNDKLCHMDTIDWRDIVRDRDAEIVVKDNG  
RSCPPCHEVCKGRCWGPGSEDCQTLTKTICAPQCNGHCFGPNPNQCCHDECAGGCSGPQD  
TDCFACRHFNDSGACVPRCPQLVYNKLTQLEPNPHTKYQYGGVCVASC PHNFVVDQTS  
CVRACPPDKMEVDKNGLKMCEPCGGLCPKACEGTGSGSRFQTVSSNIDGFVNCTKILGN  
LDFLITGLNGDPWHKIPALDPEKLNVFRTVREITGYLNIQSWPPMHMNFVFSNLTTIGG  
RSLYNRGFSLIMKNLNVTSLGFRSLKEISAGRIYISANRQLCYHHSNLWTKVLRGPTEE  
RLDIKHNRRPRDCVAEGKVC DPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEP  
REFAHEAECFSCHPECQPMEGTATCNGSGSDTCAQCAHFRDGPHCVSSCPHGVLGAKGPI  
YKYPDVQNECRPCHENCTQGCKGPQLQDCLGQTLVLIGKTHLTMAITV IAGLVVIFMMLG  
GTFLYWRGRRIQNKRAMRRYLERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSGVF  
GTVHKGVWIPGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAHIVRLLGLCPG  
SSLQLVTQYLPLGSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYLEEHGMVHRNLAARNV  
LLKSPSQVQVADFGVADLLPPDDKQLLYSEAKTPIKWMALESIHF GKYTHQSDVWSYGV  
VWELMTFGAEPYAGRLAEVPDLLEKGERLAQPQICTIDVYVMVKCWMIDENIRPTFKE  
LANEFTRMARDPPRYLVIKRESGPGIAPGPEPHGLTNKKLEEVELEPELDLDLDLEAEED  
NLATTLGSALSPLVGT LNRPRGSQSLLSPSSGYMPMNQNLGESCQESAVSGSSERCPR  
PVSLHPMPRGCLASESSEGHVTGSEAELQEKVSMCRSRSRSPRPRGDSAYHSQRHSL  
TPVTPLSPPGLEEDVNGYVMPDTHLKGTPSSREGTLSSVGLSSVLGTEEEDEDEEY EYM  
NRRRRHSPPHPPRPSLEELGYEYMDVGSDLSASLGSTQSCPLHPVPIMPTAGTTPDE  
EYMNQRDGGGPGGDYAAMGACPAEQGYEEMRAFGQPGHQAPHVHYARLKTLSLEATD  
SAFDNPDYWHSRLFPKANAQRT

>sp|Q4GOM1|ERFE\_HUMAN Erythroferrone OS=Homo sapiens GN=ERFE PE=2 SV=2

MAPARRPAGARLLLVYAGLLAAAAAGLSPEPGAPSRSRARREPPPGNELPRGPGESRAG  
PAARPPEPTAERAHSVDPDRAWMLFVRQSDKGVNGKKRSRGKAKKLKFLPGPPGPPGPQ  
GPPGPIIPPEALLKEFQLLLKGAVRQRERAEPCTCGPAGPVAASLAPVSATAGEDDDD  
VVGDLALLAAPLAPGPRAPRVEAAFLCRLRRDALVERRALHELGVYYLPDAEGAFRRGP  
GLNLTSQYRAPVAGFYALAATLHVALGEP RRRGPPRRDHLRLLCIQSRCQRNASLEA  
IMGLESSSELFTISVNGVLYLQMGQWTSVFLDNASGCSLTVRSGSHFSAVLLGV

>sp|P50548|ERF\_HUMAN ETS domain-containing transcription factor ERF OS=Homo sapiens  
GN=ERF PE=1 SV=2

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DEVARLWGVKCKPQMNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFID  
VGLAGGAVPQSAPPVPSGGSHFRFPSTPSEVLSPTEDPRSPPACSSSSSLFSAVVARR  
LGRGSVSDCSDGTSELEELGEDPRARPPGPPDLGAFRGPPLARLPHDPGVFRVYPRPRG  
GPELSPFPVSPLAGPGSLLPPQLSPALPMTPTHLAYTPSPTLSPMYPSSGGGPGSGGGG  
SHFSFSPEDMKRYLQAHTQSVYNYHLSRAFLHYPGLVVPQQRPKCPLPPMAPETPPV  
PSSASSSSSSSSSPFKFLQPPPLGRRQRAAGEKAVAGADKSGGSAGGLAEGAGALAPPP  
PPPQIKVEPISEGESEEEVEVTDISDEDEEDGEVFKTPRAPPAPPKPEPEAPGASQCMPL  
KLRFKRRWSEDCRLEGGGPGAGFEDEGEDKKVRGEGPGEAGGPLTPRRVSSDLQHATAQ  
LSLEHRDS

>sp|076062|ERG24\_HUMAN Delta(14)-sterol reductase OS=Homo sapiens GN=TM7SF2 PE=2 SV=3

MAPTQGPRAPLEFGGPLGAAALLLLPATMFHLLAARSGPARLLGPPASLPGLEVLWSP  
RALLWLAWLGLQAALYLLPARKVAEGQELKDKSRLRYPINGFQALVLTALLVGLGMSAG  
LPLGALPEMLLPLAFVATLTAFIFSLFLYMKAVAPVSALAPGGNSGNPIYDFFLGRELN  
PRICFFDFKYFCELRPGLIGWVLINLALLMKEAELRGSPSLAMWLNGFQLLYVGDALWH  
EEAVLTMDITHDGFGLAFGDMAWVPFTYSLQAQFLLHHPQLGLPMASVICLINATG  
YYIFRGANSQKNTFRKNPSDPRVAGLETISTATGRKLLVSGWWGMVRHPNYLGDLMALA  
WSLPCGVSHLLPYFYLLYFTALLVHREARDERQCLQKYGLAWQEYCRRVPYRIMPYIY

>sp|Q9UKR5|ERG28\_HUMAN Probable ergosterol biosynthetic protein 28 OS=Homo sapiens  
GN=C14orf1 PE=1 SV=1

MSRFLNVLRSWLVMVSIAMGNTLQSFDRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLS  
SVIRCLCAIDIHNKTLYHITLWTFLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILG  
MLVGLRYLEVPEVSRQKKRN

>sp|P48449|ERG7\_HUMAN Lanosterol synthase OS=Homo sapiens GN=LSS PE=1 SV=1

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AGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNIL  
HKKGGAVAIPSWGKFWLAVLVYSWEGNLTFPEMWLFPDWAPAHPSLWCHCRQVYLP  
SYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL  
NLYEHHSALHRQRAVQKLYEHIVADDRFTKISIGPISKINMLVRWYVDGPASTAFQE  
HVSRIPDYLMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHRPEFSSCLQKAHEFLRL  
SQVPDNPDPYQKYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPR  
ERLCAVAVLLNMRNPDGGFATYETKRGHLELLNPSEVFGDIMIDYTYVECTSAVMQA  
LKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG  
QTYRDGTACAEVSRACDFLLSRQMDGGWGEDFESCEERRYLSAQSQIHNTCWAMMGLM  
AVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFS  
QLYPERALAGHP

>sp|Q96RQ1|ERGI2\_HUMAN Endoplasmic reticulum-Golgi intermediate compartment protein 2  
OS=Homo sapiens GN=ERGIC2 PE=1 SV=2

MRRLNRKKTLSLVKELDAFPKVPESYVETSASGGTVSLIAFTTMALLTIMEFSVYQDTWM  
KYEYVDKDFSSKLINIDITVAMKCQYVGADVLDLAETMVASADGLVYEPTVFDLSPQQ  
KEWQRMLQLIQSRLQEEHSLQDVIFKSAFKSTSTALPPREDDSSQSPNACRIHGHLVYVK



VAGNFHITVGKAIPHRGHAHLAALVNHESYNFSHRIDHLSFGELVPAIINPLDGTEKIA  
IDHNQMFQYFITVVP TKLHTYKISADTHQFSVTERERIINHAAGSHGVSGIFMKYDLSSL  
MVTVTEEHMPFWQFFVRLCGIVGGIFSTTGLMHGIGKFIVEIICCRFRLGSYKPVNSVPP  
EDGHTDNHLPLENNTH

>sp|Q9Y282|ERGI3\_HUMAN Endoplasmic reticulum-Golgi intermediate compartment protein 3  
OS=Homo sapiens GN=ERGIC3 PE=1 SV=1

MEALGKLKQFDAYPKTLED FRVKTCGGATVTIVSGLLMLLFLSELQYYLTTEVHPELYV  
DKSRGDKLKINIDVLFPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKDGIPVSSEAE  
RHELKGV ETVTFDPDSLDPDRCESCYGAEAEIDKCCNTCEDVREAYRRRGWAFKNPDTIE  
QCRREGFSQKMQE QKNEGCQVYGFLEV NKVAGNFHFAPGKSFQQSHVHVHDLQSFGLDNI  
NMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVPTVYMKVDGEVLR TNQF  
SVTRHEKVANGLLDGQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAG  
LIDSLIYHSARAIQKKIDLGKTT

>sp|Q7L0X2|ERIP6\_HUMAN Glutamate-rich protein 6 OS=Homo sapiens GN=ERICH6 PE=2 SV=1

MAHLRSPSGFGDPGKKDQKESEEELEEEEEVEEEEEVEEEEEVEEEEEVEEEEEVEEEL  
VGEEQELEAPETFSEEYLWKVTDIGDYDDDFPDVRPLASIVSPSLTSTFVPSQSATSTE  
TPSASPPSSTSSHKSFPKIFQTFRKDMSEMSIDRNIHRNLSPGIPVSVQTEESWLQDLS  
KVQSRKKASKEKAEP ECLASKLREKVVINPEESKLNILYELEFKEDFITLFEP SLRTLPS  
IGPPSILAYKEESSNLGINFKDEEEETSPKCEFCGSDLRAFFSNVDVSSEPKGHASCCIA  
FQNLIDYIYEEQIKTKPPKAELIAIDPHAAHGSEVDRLKAKEKALQRKQEQRMARHFAII  
SREQTHFSEDDSKRLKTISYQLSVDIPEKQIIDDIVDFQLRNSNMSIICDSRIACGKV  
VRNELLEKHYKHGSKFLTSPFDGTTQIFYP SGNLAIIRVPNKVNGFTCIVQEDMPTNPAI  
LAVLDSSGRSSCYHPNGNVVWYINILGGQYSDQAGNRIRAWNWSN SITSSPFVSFKPVFL  
ALNRYIGVRILEQDKISITFLAMGQQARISVGTKVKLPNPEEIPILRYVSGDLLLLASL  
IKIRRLFHKLEGCVNFPSSQVWEK LKQPSYLSLSLKLIALCHSSGIKQDIMKTIRNIIN  
EEI

>sp|Q7Z2K6|ERMP1\_HUMAN Endoplasmic reticulum metalloproteinase 1 OS=Homo sapiens GN=ERMP1  
PE=1 SV=2

MEWGESAAVRRHRVGVRRREGAAAAAPPEREARAQEPLVDGCSGGGRTRKRSPGSGGA  
SRGAGTGLSEVRAALGLALYLIALRTLVLQSLQQLVLRGAAGHRGEFDALQARDYLEHIT  
SIGPRTTGSPENEILTVHYLLEQIKLIEVQSNLSHKISVDVQRPTGSFSIDFLGGFTSY  
DNITNVVVKLEPRDGAQHAVLANCHFDVANSFGASDDAVSCVMLEVLRLVLSSEALH  
HAVIFLFGAEENVLQASHGFITQHPWASLIRAFINLEAAGVGGKELVFQTGPENPWLQ  
AYVSAAKHPFASVVAQEVFQSGIIPSSTDFRIYRDFGNIPGIDLAFIENGYIYHTKYDTA  
DRILTDSIQRAGDNILAVLKLATSDMLAAASKYRHGMVFFDVLGLFVIAYPSRIGSII  
NYMVVMGVVLYLGKKFLQPKHKTGNYKKDFLCGLGITLISWFTSLVTVLIIAVFISLIGQ  
SLSWYNHFYVSVCLYGTATVAKIIL IHTLAKRFYMNASAYLGEVFFDISL FVHCCFLV  
TLTYQGLCSAFISAVVWAFPLLTCLCVHKDFKQHGAAQGFIAFYLLGMFIPYLYALYLIW  
AVFEMFTPILGRSGSEIPDPVVLASILAGCTMILSSYFINFIYLA KSTKKTMLTLTLVCA  
ITFLLVCSGTFPPYSSNPANPKPKRVFLQHMTRTFHDLEGNVAVKRDSGIWINGFDYTGIS  
HITPHIPEINDSIRAHCEENAPLCGFPWYLPVHFLIRKNWYLPAPEVSPRNPPHFRLISK  
EQTPWDSIKLTFEATGPSHMSFYVRAHKGSTLSQWSLNGTPVTSKGGDYFVFYSHGLQA  
SAWQFWIEVQVSEEHPEGMVTVAIAAHYLSGEDKRSPQLDALKEKFPDWTFPSAWVCTYD  
LFVF

>sp|P62508|ERR3\_HUMAN Estrogen-related receptor gamma OS=Homo sapiens GN=ESRRG PE=1 SV=1  
MDSVELCLPESFSLHYEEELLCRMSNKDRHIDSSCSSFIKTEPSSPASLTDSVNHHSPPG  
SSDASGSYSSTMNGHQGLDSPPLYPSAPILGGSGPVRKLYDDCSSTIVEDPQTKCEYML  
NSMPKRLCLVCGDIASGYHYGVASCEACKAFFKRTIQGNIEYSCPATNECEITKRRRKSC  
QACRFMKCLKVGMKEGVRLDRVRGGRQKYKRRIDAENSPYLNQVLVQPAKKPYNKIVSH  
LLVAEPEKIYAMPDPTVPDSDIKALTTLCDLADRELVVIIGWAKHIPGFSTLSLADQMSL  
LQSAWMEILILGVVYRSLSEFEDELVYADDYIMDEDQSKLAGLLDLNAILQLVKKYKSMK  
LEKEEFVTLKAIALANSDSMHIEDVEAVQKLQDVLHEALQDYEAGQHMEDPRRAGKMLMT  
LPLLRQTSTKAVQHFYNIKLEGKVPMHKLFLEMLEAKV

>sp|Q9H6S3|ES8L2\_HUMAN Epidermal growth factor receptor kinase substrate 8-like protein  
2 OS=Homo sapiens GN=EPS8L2 PE=1 SV=2  
MSQSGAVSCCPGATNGSLGRSDGVAKMSPKDLFEQRKKYSNSNVIHETSQYHVQHLLATF  
IMDKSEAITSVDDAIRKLVQLSSKEKIWTQEMLLQVNDQSLRLLDIESQEELEDFPLPTV  
QRSQTVLNQLRYPVSVLLVCQDSEQSKPDVHFFHCDEVEAELVHEDIESALADCRLGKKM  
RPQTLKGHQEKIRQRQSILPPPQGPAPIPFQHRGGDSPEAKNRVGPVPLSEPGFRRRES  
QEEPRAVLAQKIEKETQILNCALDDIEWFVARLQKAAEAFKQLNQRKKGKKKGKKAPAEG  
VTLRARPPSEGEFIDCFQKIKLAINLLAKLQKHIQNPSAAELVHFLFGPLDLIVNTCSG  
PDIARSVSCPLLSDAVIDFLRGHLVPKEMSLWESLGESWMRPREWPREPQVPLYVPKFH  
SGWEPPVDVLQEAPWEVEGLASAPIEEVSPVSRQSIRNSQKHSPTSEPTPPGDALPPVSS  
PHTHRGYQPTPAMAKYVKILYDFTARNANELSVLKDEVLEVLEDGRQWWKLRSRSGQAGY  
VPCNILGEARPEDAGAPFEQAGQKYWGPASPTHKLPPSPGNKDELMQHMDDEVNDELIRK  
ISNIRAQPQRHFRVERSQPVSQPLTYESGPDEVRAWLEAKAFSPRIVENLGILTPQLFS  
LNKEELKKVCGEEGVRVYSQLTMQKAFLEKQSGSELEELMNKFHSMNQRRGEDS

>sp|Q56NI9|ESCO2\_HUMAN N-acetyltransferase ESCO2 OS=Homo sapiens GN=ESCO2 PE=1 SV=1  
MAALTPRKRKQDSLKCDLHFTENLFPSPNKKHCFYQNSDKNEENLHCSQQEHFVLSAL  
KTTEINRLPSANQGSFKSALSTVSFYNNQNKWYLNPLERKLKESRSTCLKTNDEDKSFP  
IVTEKMQGKPVCSKKNKPKQSLTAKYQPKYRHIKPVSRNSRNSKQNRVIYKPIVEKEN  
NCHSAENNSNAPRVLSQKIKPQVTLQGGAAFFVRKKSSLRKSLENEPSLGRTQKSKSEV  
IEDSDVETVSEKKTATRQVPKCLVLEEKLIKIGLLSASSKNKEKLIKDSSDDRVSKEHK  
VDKNEAFSSDSLGENKTIISPKSTVYPIFSASSVNSKRSLGEEQFSVGSVNFMKQTNIQK  
NTNTRDTSKKTQDLIIDAGQKHFGATVCKSCGMIYTASNPEDEMHHVQHHRFLEGIKY  
VGWKKERVVAEFWDGKIVLVLPHPDSFAIKKVEDVQELVDNELGFQVVPKCPNKIKTFL  
FISDEKRVVGCLIAEPIKQAFRVLSEPIGPESPSSTECRAWQCSDVPEPAVCGISRIWV  
FRLRRRKRIARRLVDTLRNCFMFGCFLSTDEIAFSDPTPDGKLFATKYCNTPNFLVYNFN  
S

>sp|P03372|ESR1\_HUMAN Estrogen receptor OS=Homo sapiens GN=ESR1 PE=1 SV=2  
MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAAY  
EFNAAAAANAQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHPPPQLSPF  
LQPHGQQVPYYLENEPSGYTVREAGPPAFYRPNSDNRRQGGRERLASTNDKGSMAESAK  
ETRYCAVCNDYASGYHYGVWSCEGCKAFFKRSIQGHNDYMCATNQCTIDKNRRKSCQAC  
RLRKCYEVGMMKGIRKDRRGGRMLKHKRQRDDGEGRGEVGSAGDMRAANLWPSPLMIKR  
SKKNSLALSLTADQMVSALLDAEPPILYSEYDPTRPFSEASMMGLLTNLADRELHMINW  
AKRVPGFVDLTLHDQVHLECAWLEILMIGLVWRSMHPGKLLFAPNLLLDNRNQKCV  
MVEIFDMLLATSSRFMMNLQGEFEVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLD

KITDTLIHLMAKAGLTLQQQHQLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLL  
LEMLDAHRLHAPTSRGGASVEETDQSHLATAGSTSSSHSLQKYYITGEAEGFPATV

>sp|P15036|ETS2\_HUMAN Protein C-ets-2 OS=Homo sapiens GN=ETS2 PE=1 SV=1

MNDFGIKNMDQVAPVANSYRGTLKRQPAFDTFDGS�FAVFPSSLNEEQTLQEVPTGLDSIS  
HDSANCELPLLTPCSKAVMSQALKATFSGFKKEQRRLGIPKNPWLWSEQQVCQWLLWATN  
EFSLVNVNLQRFGMNGQMLCNLGKERFLELAPDFVGDILWEHLEQMIKENQEKTEDQYEE  
NSHLTSVPHWINSNTLGFGEQAPYGMQTQNYPKGGLDSCPASTPSVLSSEQEFQMFP  
KSRLSSVSVTYCSVSQDFPGSNLNLTTNSGTPKDHDSPENGADSFESSDLLQSWNSQS  
SLLDVQRVPSFESFEDDCSQSLCLNKPTMSFKDYIQUERSDPVEQGKPVIPAAVLGFTGS  
GPIQLWQFLLELLSDKSCQSFISWTGDGWEFKLADPDEVARRWGKRKNPKMNYEKLSTG  
LRYYYDKNI IHKTSKGKRYVYRFVCDLQNLGFTPEELHAILGVQPDTE

>sp|P50549|ETV1\_HUMAN ETS translocation variant 1 OS=Homo sapiens GN=ETV1 PE=1 SV=2

MDGFYDQQVPYMTNSQGRNCNEKPTNVRKRKFINRDLAHDSEELFQDLSQLQETWLAE  
AQVPDNDQFVPDYQAESLAFHGLPLKIKKEPHSPCSEISSACSQEQPFKFSYGEKCLYN  
VSAYDQKPQVGMRPSNPPTPSSTPVSPLHHASPNSTHTPKPDRAFAHLPPSQSIPDSSY  
PMDHRFRRLSEPCNSFPPLPTMPREGRPMYQRMSEPNIPFPPQGFKQYHDPVYEHNT  
MVGSAASQSFPPMLIKQEPRDFAYDSEVPSCHSIYMRQEGFLAHPSTRTEGCMFEKGPRQ  
FYDDTCVVPEKFDGDIKQEPGMYREGPTYQRRGSLQLWQFLVALLDDPSNSHFIATWGRG  
MEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSLRYYYEKGIMQKVAGERYVYKFVCDPEA  
LFSMAFPDNRPLKTDMERHINEEDTVPLSHFDESMAYMEGGCCNPHYNEGYYV

>sp|P41212|ETV6\_HUMAN Transcription factor ETV6 OS=Homo sapiens GN=ETV6 PE=1 SV=1

MSETPAQCSIKQERISYTPPESPVPSYASSTPLHVPVPRALRMEEDSIRLPAHLRLQPIY  
WSRDDVAQWLKWAENEFSRLPIDSNTEFEMNGKALLLLTKEDFRYRSPHSGDVLIELLQHI  
LKQRKPRILFSPFFHPGNSIHTQPEVILHQNHEDNCVQRTPRPSVDNVHNPPTIELLH  
RSRSPITTNHRPSDPPEQRPLRSPLDNMIRRLSPAERAQGPRPHQENNHQESYPLSVSPM  
ENNHCPASSESHPKPSSPRQESTRVIQLMPSPIMHPLILNPRHSVDFKQSRLSEDGLHRE  
GKPINLSHREDLAYMNHIMVSVSPPEEHAMPIGRIADCRLLDYVYQLLSDSRYENFIRW  
EDKESKIFRIVDPNGLARLWGNHKNRTNMTYEKMSRALRHYYKLNIIRKEPGQRLFRFM  
KTPDEIMSGRTDRLEHLESQELDEQIYQEDC

>sp|Q04741|EMX1\_HUMAN Homeobox protein EMX1 OS=Homo sapiens GN=EMX1 PE=1 SV=2

MFQPAAKRGFTIESLVAKDGGTGGGTGGGAGSHLLAAAAASEEPLRPTALNYPHPSAAEA  
AFVSGFPAAGAGRSLYGGPELVFPEAMNHPALTVHPAHQLGASPLQPPHSFFGAQHR  
DPLHFYPWVLNRNRFQHRFQASDVPQDGLLLHGPFAKPKRIRTAFAFSPQLRLERAFEK  
NHVVGGAERKQLAGSLSLSETQVKVWFQNRRTKYKRQKLEEEGPESEQKKKGSHHINRWR  
IATKQANGEDIDVTSND

>sp|P21128|ENDOU\_HUMAN Poly(U)-specific endoribonuclease OS=Homo sapiens GN=ENDOU PE=1  
SV=2

MRACISLVAVLCGLAWAGKIESCASRCNEKFNDAACQCDRRLWHGNCCEDEYHLCTE  
DHKESEPLPQLEETEALASNLYSAPTSCQGRCYEAQDKHHQCHCNARCQEFGNCKDF  
ESLCSDEHVSHTSDAITKEEQISEKIYRADTNKAQKEDIVLNSQNCISPSETRNQVDR  
CPKPLFTYVNEKLFSKPTYAAFINLLNNYQRATGHGEHFAQELAEQDAFLREIMKTAVM  
KELYSFLHHQNRYSGEQEFVDDLKNMWFGLYSRGNEEGDSSGFEHVFSGEVKKGVGTGFH  
NWIRFYLEEKEGLVDYYSIYDGPWDSYDPVLAMQFNWDGYYKEVGSAFIGSSPEFEFAL  
YSLCFIARPGKVCQLSLGGYPLAVRTYTWKSTYGNKKYIATAYIVSST

>sp|Q9N2K0|ENH1\_HUMAN HERV-H\_2q24.3 provirus ancestral Env polyprotein OS=Homo sapiens  
PE=2 SV=1

MIFAGKAPSNTSTLMKFYSLLLYSLLFSFPFLCHPLPLPSYLHHTINLTHSLLAASNPSL  
VNNCWLCISLSSSAYTAVPAVQTDWATSPISLHLRTSFNSPHLYPPEELIYFLDRSSKTS  
PDISHQQAALLRITYLKNLSPYINSTPPIFGPLTTQTTIPVAAPLCISWQRPTGIPLGNL  
SPSRCSFTLHLRSPTTNINETIGAFQLHITDKPSINTDKLKNISSNYCLGRHLPCLSLHP  
WLSSPCSSDSPRPSSCLLIPSPENNSERLLVDTRRFLIHENRTFPSTQLPHQSPLQPL  
TAAALAGSLGVVWQDTPFSTPSHLFTLHLQFCLAQGLFFLCGSSSTMCLPANWTGTCTLV  
FLTPKIQFANGTEELPVPLMTPTQKRVIPLIPLMVGLGLSASTVALGTGIAGISTSVMT  
FRSLSNDFSASITDISQTLVLQAQVDSLAAVVLQNRRLDLLTAEGKGLCIFLNEECCF  
YLNQSGLVYDNIKKLKDRAQKLANQASNYAEPWALSNNMSWVLPVIVSPLIPIFLLLLFG  
PCIFRLVSQFIQNRITAITNHSIRQMFLLTSPQYHPLQDLPSA

>sp|071037|ENK19\_HUMAN Endogenous retrovirus group K member 19 Env polyprotein OS=Homo  
sapiens GN=ERVK-19 PE=1 SV=2

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSLPMPAGAAAANYTYWAYVPFPPLIRAVTWMD  
NPIEVYVNDVSVWPGPTDDHCPAKPEEEGMMINISIGYRPPICLGRAPGCLMPAVQNW  
VEVPTVSPISRFTYHVMVSGMSLRPRVNYLQDFSYQRSFKFRPKGKPCPKEIPKESKNT  
EVLVWEECVANSVILQNNFGTIIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLD  
KHKHKKLQSFYPWEWGEKGISTPRPKIISPVSQGEHPELWRLTVASHHIRIWSGNQTLET  
RDRKPFYTVDLNSSVTVPLQSCIKPPYMLVVGNIKIPDSQTITCENCRLTCTIDSTFNW  
QHRILLVRAREGVWIPVSMRDPWETSPSIHTLTVLKGVLNRSKRIFITLIAVIMGLIAV  
TATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRL  
MSLEHRFQLQCDWNTSDFSITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLKEQIFEA  
SKAHLNLVPGTEAIAGVADGLANLNPVTWVKITGSTTIINLILVCLFCLLLVCRCTQQ  
LRRDSHDRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV

>sp|P13929|ENOB\_HUMAN Beta-enolase OS=Homo sapiens GN=ENO3 PE=1 SV=5

MAMQKIFAREILDSRGNTVEVDLHTAKGRFRAAVPSGASTGIYEALERDGDGKGRYLK  
GVLKAVENINNTLGPALLQKKLSVVDQEKVDKFMIELDGTENKSKFGANAILGVSLAVCK  
AGAAEKGVPYRHIADLAGNPDILPVPAFNVINGGSHAGNKLAMQEFMILPVGASSFKE  
AMRIGAEVYHHLKGVIKAKYGDATNVGDEGGFAPNILENNEALELLKTAIQAAGYDPKV  
VIGMDVAASEFYRNGKYDLDFKSPDDPARHITGEKLGELYKSFINKYPVVSIEDPFDQDD  
WATWTSFLSGVNIQIVGDDLTVTNPKRIAQAVEKKACNCLLLKVNQIGSVTESIQACKLA  
QSNWGVVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEALGDK  
AIFAGRKFERNPKAK

>sp|POD092|ENOL\_HUMAN Putative protein T-ENOL OS=Homo sapiens GN=T-ENOL PE=4 SV=1

MASTPMGNEGEKKSSWPSQAAPSLRGGPASLSRSEEYLSQISAELMEEALCTACCHLNPV  
PIKKKQSQDQATQISKRAFFTKT

>sp|Q16206|ENOX2\_HUMAN Ecto-NOX disulfide-thiol exchanger 2 OS=Homo sapiens GN=ENOX2 PE=1  
SV=2

MQRDFRWLVVYEIGYAADNSRTLNVDDSTAMTLPMSDPTAWATAMNNLGMAPLGIAGQPIL  
PDFDPALGMMTGIPPITPMMPGLGIVPPPIPPDMPVVKIEIHCKSCTLFPPNPNLPPPAT  
RERPPGCKTVFVGGLPENGTEQIIIEVFECQGEIIAIRKSKKNFCHIRFAEEYMVDKALY  
LSGYRIRLGSSTDKKDTGRLHVDFAQARDDLYEWECKQRMLAREERHRRRMEEERLRPPS

PPPVVHYSDHECSIVA EKLKDDSKFSEAVQTLLTWIERGEVNRRSANNFYSMIQSANS HV  
RRLVNEKAAHEKDMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNIS  
VWCKQAE EIRNIHNDELMGIRREEEMEMSDDEIEEMTETKETEE SALVSQAEALKEENDS  
LRWQLDAYRNEVELLKQEQGVHREDDPNKEQQLKLLQQALQGMQQHLLKVQEEYKKKEA  
ELEKLKDDKLQVEKMLENLKEKESCASRLCASNQDSEYPLEKTMNSSPIKSEREALLVGI  
ISTFLHVHPFGASIEYICSYLHRLDNKICTSDVECLMGRLQHTFKQEMTGVGASLEKRWK  
FCGFEGCLKLT

>sp|075356|ENTP5\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 5 OS=Homo sapiens  
GN=ENTPD5 PE=1 SV=1

MATSWGTVFFMLVSCVCSAVSHRNQQTWFEGIFLSSMCPINVSASTLYGIMFDAGSTGT  
RIHVYTFVQKMPGQLPILEGEVFD SVKPGLSAFVDQPKQGAETVQGLLEVAKDSIPRSHW  
KKTPTVLKATAGLRLLPEHKAKALLFEVKEIFRKSPFLVPKGSVSIMDGSDEGILAWTV  
NFLTGQLHGHRQETVGTLDLGGASTQITFLPQFEKTLEQTTPRGYLTSFEMFNSTYKLYTH  
SYLGFGLKAARLATLGALETEGTDGHTFRSACLPRWLEAEWIFGGVKYQYGGNQEGEVGF  
EPCYAEVLRVVRGKLHQPEEVQRGSFYAFSYYYDRAVDTDMIDYEKGGILKVEDFERKAR  
EVCNLENFTSGSPFLCMDLSYITALLKDGFADSTVLQLTKKVNNIETGWALGATFHL  
LQSLGISH

>sp|Q8IUS5|EPHX4\_HUMAN Epoxide hydrolase 4 OS=Homo sapiens GN=EPHX4 PE=2 SV=2

MARLDCLPRLMLTLRSLFLVSLVYCYCGLCASIHLLKLLWSLGKPAQTFRRPAREHPP  
ACLSDP SLGTHCYVRIKDSGLRFHYVAAGERGKPLMLLLHGFPEFWYSWRYQLREFKSEY  
RVVALDLRGYGETDAP IHRQNYKLDCLITDIKDILDSLGYSKCVLIGHDWGGMIAWLIAI  
CYPEMVMKLIVINFPHPNVFTEYILRHPAQLLKSSYYYFFQIPWFPEFMFSINDFKVLKH  
LFTSHSTGIGRKGCLTTEDLEAYIYVFSQPGALSGPINHYRNIFSCLPLKHHMVTPTL  
LLWGENDAFMEVEMA EVTKIYVKNYFRLTILSEASHWLQQDQPDIVNKLIWTFLEETRK  
KD

>sp|P58107|EPIPL\_HUMAN Epiplakin OS=Homo sapiens GN=EPPK1 PE=1 SV=2

MSGHTLPPLPVPGTNSTEQASVPRAMAATLGAGTPPRPQARS IAGVYVEASGQAQSVYAA  
MEQG LLPAGLGQALLEAQAATGGLVDLARGQLLPVSKALQQGLVGLELKEKLLAAERATT  
GYPDYPGGEKLALFQAIGKEVVDRALGQSWLEVQLATGGLVDP AQGVLVAPEPACHQGLL  
DRETWHKLSELEPGTDLRFLNPNTLERLTYHQLLERCVRAPGSGLALLPLKITFRSMGG  
AVSAAELLEVGILDEQAVQGLREGRLAAVDVSARAEVRRYLEGTGSVAGVVLLPEGHKKS  
FFQAATEHLLPMGTALPLLEAQAATHLVDPI TGQRLWVDEAVRAGLVSPELHEQLLVAE  
QAVTGHHD PFGSQIPLFQAMKKGLVDRPLALRL LDAQLATGGLVCPARRLR LPLEAALR  
CGCLDEDTQRQLSQAGSFSDGTHGGLRYEQLLALCVTD PETGLAFLPLSGGPRGGE PQGP  
PFIKYSTRQALSTATATVSVGKFRGPVSLWELLFSEAI SSEQRAMLAQQYQEGTLSVEK  
LAAELSATLEQAAATARVTFSGLRDVTTPGELLKAEI IDQDLYERLEHGQATAKDVGSLA  
SAQRYLQGTGCIAGLLLP GSQERLSIYEARKGLLRPGTALILLEAQAATGFIIDPKANK  
GHSVEEALRAAVIGPDVF AKLLSAERAVTGYTDPYTQQI SLFQAMQKGLIVREHGIRLL  
EAQIATGGVIDPVHSHRPVDVAYRRGYFDQMLNLILLDPSDDTKGFFDPNTHENLTYLQ  
LLERCVRDPETGLYLLPSSTQSPLVDSATQQA FQNLLSVKYGRFQGQQRVSAWELINSE  
YFSEGRRRQLRRYRQREVTLGQVAKLLEAETQRQADIMLPALRSRVTVHQLLEAGIIDQ  
QLLDQVLAGTISPEALLMDGVRRLCGLGAVGGVRLLP SGQRLSLYQAMRQKLLGPRVA  
LALLEAQAATGTIMDPHSPELSVDEAVRRGVVGP ELYGRLKRAEGAIAGFRDPFSGKQV  
SVFQAMKKGLIPWEQAARLLEAQVATGGIIDPTSHHLPMPVAIQRGYVDQEMETALSSS

SETFPTPDGQGRTSYAQLLEECPRDETSGLHLLPLPESAPALPTEEQVQRSLQAVPGAKD  
GTSLWDLSSCHFTEEQRRGILLEDVQEGRTTVPQLLASVQRWVQETKLLAQARVMVPGPR  
GEVPAVWLLDAGIITQETLEALAQGTQSPAQVAEQPAVKACLWGTGCVAGVLLQPSGAKA  
SIAQAVRDGLLPTGLGQRLLEAQVASGFLVDPLNNQRLSVEDAVKVGLVGRELSEQLGQA  
ERAAAGYPDPYSRASLSLWQAMEKGLVPQNEGLPLLQVQLATGGVDPVHGVHLPQAAAC  
RLGLLDTQTSQVLTAVDKDNKFFFDPSARDQVITYQQLRERCVCDSSETGLLLLPLPSDTVL  
EVDHHTAVALRAMKVPVSTGRFKGCSVSLWDLLESEYVGADKRRELVALCRSGRAAALRQ  
VVSALTALVEAAERQPLQATFRGLRKQVSARDLFRAQLISRKTDELSSQGTITVKEVAEM  
DSVKRSLEGGNFIAGVLIQGTQERMSIPEALRRHILRPGTALVLEAQAATGFIIDPAEN  
RKLTVEEAFKAGMFGKETIYVKLLSAERAVTGYTDPYTQQISLQAMQKDLIVREHGIRL  
LEAQIATGGIIDPVHSHRVPVDVAYRCGYFDEEMNRILADPSDDTKGFFDPNTHENLTYL  
QLLERCEDPETGLYLLQIIKKGENYVYINEATRHLVLSRTAKMRVGRFADQVVSFWDLL  
SSPYFTEDRKRELIQEYGAQSGGLEKLEIITTTIETETQNGIKVAAIRGEVTAADLF  
NSRVIDQKTLHTLRVGRGGQALSTLECVKPYLEGSDCIAGVTVPSTREVMLEASRKE  
LIPAAFATWLEAQAATGFLDPCTRQKLSVDEAVDGLVNEELRERLLKAERAATGYRD  
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RALEAEQVEITVGRFRGQKPTLWALLNSEYVTEKKLQLVRMYRTHTRRALQTVAQLILE  
LIEKQETSNKHLWFQGIIRGITASELLSSAIIITEMLQDLETGRSTTQELMEDDRVKRYL  
EGTSCIAGVLVPAKDQPGRQEKMSIYQAMWKGVL RPGTALVLEAQAATGFVIDPVRNLR  
LSVEEPPVAGVVGSEIQEKLLSAERAVTGYTDPYTQQISLQAMQKDLIVREHGIRLLE  
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LRRCPDPDTGLYMLQLAGRGSVHQLSEELRCALRDARVTPGSGALQGQSVSVWELLFY  
REVSEDRRQDLLSRYRAGTLTVEELGATLTSLLAQAAQARAEEAGSPRPDPREALRAA  
TMEVKVGRLRGRAVPVWDVLASGYVSRAAREELLAIEFGSGTLDLPALTRRLTAIIIEAAE  
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GVIDPVHSHRVPVDVAYRRGYFDEEMNRVLADPSDDTKGFFDPNTHENLTYVQLLRRCP  
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PQLQDAWRGPREPGPAGRGDGDGRSQREGQGEGETQEAAAAAAAAARRQEQLRDATMEV  
QRGQFQGRPVSVWDVLFSSYLSEARRDELLAQHAAGALGLPDLVAVLTRVIEETEERLSK  
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SRYRAGTLTVEELGATLTSLLAQAAQARAEEAGSPRPDPREALRAATMEVKVGRLRGR  
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RPVSVWDVLFSSYLSEARRDELLAQHAAGALGLPDLVAVLTRVIEETEERLSKVSFRGLR  
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KLLSAERAVTGYTDPYTGGQISL FQAMQKDLIVREHGIRLLEAQIATGGVIDPVHSHRVP  
VDVAYRRGYFDEEMNRVLADPSDDTKGFFDPNTHENLTYVQLLRRCVPDPDTGLYMLQLA  
GRGSAVHQLSEELRCALRDARVTPGSGALQGQSVSVWELLFYREVSEDRRQDLLSRYRAS  
TLTVEELGATLTSLLAQAQAQARA EAEAGSPRPDPREALRAATMEVKVGRLRGRAVPVWD  
VLASGYVSRAAREELLA EFGSGTLDLPALTRRLTAIIEEAEAPGARPQLQDAWRGPREP  
GPAGRGDGDGSGRSQREGQGEGETQEAAAAATAAARRQEQLRDATMEVQRGQFQGRPVSVW  
DVL FSSYLSEARRDELLAQHAAGALGLPDLVAVLTRVIEETEERLSKVSFRGLRRQVSAS  
ELHTSGILGPETLRDLAQGTKTLQEVTEMDSVKRYLEGTSCIAGVLVPAKDQPG RQEKM  
SIYQAMWKGVL RPGTALVLLEAQAAATGFVIDPVRNLRLSVEEAVAAGVVGGEIQEKLLSAE  
RAVTGYTDPYTGGQISL FQAMQKDLIVREHGIRLLEAQIATGGVIDPVHSHRVPVDVAYR  
RGYFDEEMNRVLADPSDDTKGFFDPNTHENLTYVQLLRRCVPDPDTGLYMLQLAGRGSAV  
HQLSEELRCALRDARVTPGSGALQGQSVSVWELLFYREVSEDRRQDLLSRYRAGTLTVEE  
LGATLTSLLAQAQAQARA EAEAGSPRPDPREALRAATMEVKVGRLRGRAVPVWDVLASGY  
VSGAAREELLA EFGSGTLDLPALTRRLTAIIEEAEAPGARPQLQDAWRGPREP GPAGRG  
DGDGSGRSQREGQGEGETQEAAAAAAAAARRQEQLRDATMEVQRGQFQGRPVSVWDVLFSS  
YLSEARRDELLAQHAAGALGLPDLVAVLTRVIEETEERLSKVSFRGLRRQVSASELHTSG  
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KGVLRPGTALVLLEAQAAATGFVIDPVRNLRLSVEEAVAAGVVGGEIQEKLLSAERAVTGY  
TDPYTGGQISL FQAMQKDLIVREHGIRLLEAQIATGGVIDPVHSHRVPVDVAYRRGYFDE  
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>sp|015083|ERC2\_HUMAN ERC protein 2 OS=Homo sapiens GN=ERC2 PE=1 SV=3

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PMYLSDHGVA STTYPKGTMTLGRATNRAVYGGRTAMGSSPNIASAGLSHTDVL SYTDQ  
HGGLTGSSHHHHHQP SMLRQVRDSTMLDLQAQLKELQRENDLLRKELDIKDSKLGSSMN  
SIKTFWSPELKKERVLRKEEAARMSVLKEQMRVSHEENQHLQ LTIQALQDELRTQRDLNH  
LLQQESGNRGA EHTIELTEENFRRLQAEHDRQAKELFLRK TLEEMELRIETQKQTLNA  
RDESIKKLLEMLQSKGLPSKSLEDDNERTRRMAEASQVSHLEVILDQKEKENIHLREEL  
HRRSQLQPEPAKTALQTVIEMKDTKIASLERNIRDLEDEIQMLKANGVLNTEDREEETK  
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KEQRAAILQTEVDALRLRLEEKESFLNKKTKQLQDLTEEKGTLAG EIRDMKDMLEVKERK  
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KEQRERDDRERLEEIESFRKENKDLKEKVNALQAELTEKESSLIDLKEHASSLASAGLKR  
DSKLSLEIAIEQKKEECSKLEAQLKKAHNIEDDSRMNPEFADQIKQLDKEASYRDECG  
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RIERRKQLEEILEMKQEALLAAISEKDANIALELSASKKKKTQEEVMALKREKDRLVHQ  
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>sp|Q14534|ERG1\_HUMAN Squalene monooxygenase OS=Homo sapiens GN=SQLE PE=1 SV=3

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SQFALFSDILSGLPFI GFFWAKSPPESENKEQLEARRRRKGTN ISETSLIGTAACTSTSS  
QNDPEV IIVGAGVLGSALAAVLSRDGRKVTVIERDLKEPDRI VGEFLQPGGYHVLKDLGL

GDTVEGLDAQVNVGYMIHDQESKSEVQIPYPLSENNQVQSGRAFHGGRFIMSLRKAAMAE  
PNAKFIEGVVLQLEEDDVVMGVQYKDKETGDIKELHAPLTVVADGLFSKFRKSLVSNKV  
SVSSHVFGFLMKNAPQFKANHAELILANPSPVLIYQISSSETRVLVDIRGEMPRNLREYM  
VEKIYPQIPDHLKEPFLEATDNSHLRMPASFLPPSSVKKRGVLLLGDAYNMRHPLTGGG  
MTVAFKDIKLWRKLLKGIPDLYDDAAIFEAKKSFYWARKTSHSFVVNLAQALYELFSAT  
DDSLHQLRKACFLYFKLGGECVAGPVGLLSVLSPNPLVLIGHFFAVAIYAVYFCFKSEPW  
ITKPRALLSSGAVLYKACSVIFPLIYSEMXYMVH

>sp|P11308|ERG\_HUMAN Transcriptional regulator ERG OS=Homo sapiens GN=ERG PE=1 SV=2  
MIQTVPDPAAHIKEALSVMSEDQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSRPVPQ  
QDWLSQPPARVTIKMECNPSQVNGSRNSPDECSVAKGGKMGVSPDTVGMNYGSYMEEKHM  
PPPNMTTNERRVIVPADPTLWSTDHVRQWLEWAVKEYGLPDVNILLFQNIQDKELCKMTK  
DDFQRLTPSYNADILLSHLHYLRETPLPHLTSDDDVKALQNSPRLMHARNTGGAIFIPN  
TSVYPEATQRITTRPDLPYEPPIRSAWTGHGHTPQSKAAQSPSTVPKTEDQRPQLDPY  
QILGPTSSRLANPGSGGIQLWQFLELLSDSSNSSCITWEGTNGEFKMTDPDEVARRWGE  
RKSKPNMNYDKLSRALRYYYDKNIMTKVHGKRYAYKDFHGIQAALQPHPESSLYKYPS  
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HLGTYT

>sp|Q5W0A0|ERI6B\_HUMAN Glutamate-rich protein 6B OS=Homo sapiens GN=ERIC6B PE=2 SV=1  
MSAENQLSGASPPHPTTPQYSTQNLPSEKEDTEVELDEESLQDESPFSPEGESLEDKE  
YLEEEEDLEEEYLGKEEYLKEEYLGKEEHLEEEYLEKAGYLEEEYIEEEYLGKEG  
YLEEEYLGKEEHLEEEYLGKEGYLEKEDYIEVDYLGKKAYLEEEYLGKKSYLEEEK  
ALEKEENLEEEALEKEENLDGKENLYKKYLKEPKASYSSQTMLLRDARSPDAGPSQVTT  
FLTVPPLTFATPSPVSESATESSELLTLTYRRSQASQTDWCYDRTAVKSLKSKSETEQETT  
TKLAPEEHVNTKVQQKKEENVLEFASKENFDWGITDESIDKLEVEDLDENFLNSSYQTVF  
KTIIEKMAAHNEEDFDIPLTKLLESENWKLVIMLKKNYEKFKETILRIKRRREAQKL  
TEMTSFTFHLMSKPTPEKPETEEIQKPQRVHHRKKLERDKEWIQKKTVVHQDGKLILY  
PNKNVYQILFPDGTGQIHYPGSLAMLILYAKMKKFTYIILEDSEGRIRALINNSGNAT  
FYDENSDIWLNLSSNLGYFPKDKRQKAWNWWNLNIHVHAPPVQPISLKINEYIQVQIRS  
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>sp|A6NGS2|ERIC4\_HUMAN Glutamate-rich protein 4 OS=Homo sapiens GN=ERIC4 PE=4 SV=2  
MELWRQLNQAGLVPPGLGPPQALREVSPVEIPGQTLRTAGADTGACDSSLWIREELGN  
LRRVDVQLLGQLCSLGLMGALREELVTILEEEESSKEEEEDQEPQRKQEEHLEACPA  
PHPPDFEMMI

>sp|Q6P6B1|ERIC5\_HUMAN Glutamate-rich protein 5 OS=Homo sapiens GN=ERIC5 PE=2 SV=1  
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PLQKLKVSAPTANGVKPLQEQLAKDVAPGRDATDQSGSTEKTQPGEGLEESGPPQPGG  
KEDAPAAEGKKKDAGAGTEAESLKGNAEAQPLGPEAKGQPLQAAVEKDSLRAVEVTENPQ  
TAAEMKPLGTTENVLTQLIAGELQPQGTVGKDEQAPLLETISKENESPEILEGSQFVETA  
EEQQLQATLGKEEQQLLERIPKENVTPVLDRLSRLVEKPMNDPFHKTPEGPGNMEQIQ  
PEGIVGSMEHPARNVEAGAYVEMIRNIHTNEEDQRIEGETGEKVETDMENEKVSEGAETK  
EETGEVVDLSAAT

>sp|Q96DZ1|ERLEC\_HUMAN Endoplasmic reticulum lectin 1 OS=Homo sapiens GN=ERLEC1 PE=1 SV=1  
MEEGGGGVRSVLPGGPVLLVLCGLLEASGGGRALPQLSDDIPFRVNWPGTEFSLPTTGVL



YKEDNYVIMTTAHKEKYKCILPLVTSGDEEEEKDYKGNPRELLEPLFKQSSCSYRIESY  
WTYEVCHGKHIRQYHEEKETGQKINIHEYLGNMLAKNLLFEKEREAEKEKSNEIPTKN  
IEGQMPYPYPVGMGNGTPCSLKQNRPSSTVMYICHPESKHEILSVAEVTTCYEYEVILT  
PLLCSHPKYRFRASPVDIFCQSLPGSPFKPLTLRQLEQQEELRVPFRRNKEEDLQSTK  
EERFPAIHKSIAIGSQPVLTGTTTHISKLTDDQLIKEFLSGSYCFRGGVGVWVWYEFYCYGK  
HVHQYHEDKDSGKTSVVVGVTWNQEEHIEWAKKNTARAYHLQDDGTQTVRMVSHFYGNNGDI  
CDITDKPRQVTVKLCKESDSPHAVTVYMLEPHSCQYILGVESPVICKILDTADENGLLS  
LPN

>sp|Q76MJ5|ERN2\_HUMAN Serine/threonine-protein kinase/endoribonuclease IRE2 OS=Homo  
sapiens GN=ERN2 PE=1 SV=4

MASAVRGRPWPRGLQLQFAALLGLTSPQVHTLRPENLLLSTLDGSLHALSKQTGDL  
KWTLRDDPVIEGPMYVTEMAFLSDPADGSLYILGTQKQQLMKLPFTIPELVHASPCRSS  
DGVFYTGKQDAWFVVDPESETQMTLTTEGPSTPRLYIGRTQYTVTMHDPRAPALRWNT  
TYRRYSAPPMDGSPGKYMHLASCGMGLLLTVDPGSGTVLWTQDLGVPVMGVYTWHDGL  
RQLPHLTLARDTLHFLALRWGHIRLPASGPRDTATLFSTLDTQLLMTLVGKDETFYVS  
KALVHTGVALVPRGLTAPADGPTTDEVTLQVSGEREGSPSTAVRYPGSGVALPSQWLLI  
GHHELPPVLHTTMLRVHPTLGSGETRPPENTQAPAFFLELLSLSREKLWDELHPPEEK  
TPDSYLGGLGPQDLAASLTAVLLGGWILFVMRQQQPQVVEKQQETPLAPADFAHISQDAQ  
SLHSGASRRSQKRLQSPSKQAQPLDDPEAEQLTVVGKISFNPKDVLGRGAGGTFVFRGQF  
EGRAVAVKRLRECFGLVRREVQLLQESDRHPNVLRYFCTERGPQFHYLELCRASLQE  
YVENPDLDRGGLPEVVLQQLMSGLAHLHSLHIVHRDLKPGNILITGPDQGLGRVVLSD  
FGLCKKLPAGRCSFSLHSGIPGTEGWMAPELLQLLPPDSPTSAVDIFSAGCVFYVLSGG  
SHPFGDSLRYQANILTGAPCLAHLEEEVHDKVVARDLVGAMLSPLPQPRPSAPQVLAHPF  
FWSRAKQLQFFQDVSDWLEKESEQEPLVRALEAGGCAVVRDNWHEHISMPLQTDLRKFRS  
YKGTSVRDLLRAVRNKKHHYRELPEVRQALGQVPDGFVQYFTNRFPRLLLHTHRMRSC  
ASESLFLPYPPDSEARRPCPGATGR

>sp|Q8TE67|ES8L3\_HUMAN Epidermal growth factor receptor kinase substrate 8-like protein  
3 OS=Homo sapiens GN=EPS8L3 PE=1 SV=2

MSRPSSRAIYLHRKEYSQNLTSPTLLQHRVEHLMTCQGSQVRVQGPEDALQKLFEMDAQ  
GRVWSQDLILQVRDGLQLLDIETKEELDSYRLDSIQAMNVALNTCSYNSILSITVQEPG  
LPGTSTLLFQCQEVGAERLKTSLQKALEEELEQRPRLGGLQPGQDRWRGPAMERPLPMEQ  
ARYLEPGIPPEQPHQRTLEHSLPPSPRPLPRHTSAREPSAFTLPPRRSSSPEDPERDEE  
VLNHVLRDIELFMGKLEKAQAKTSRKKKFGKKNKDQGGLTQAQYIDCFQKIKHSFNLLGR  
LATWLKETSAPELVHILFKSLNFILARCPEAGLAAQVISPLLTPKAINLLQSCLSPPESEN  
LWMGLGPAWTTSRADWTGDEPLPYQPTFSDDWQLPEPSSQAPLGYQDPVSLRRGSHRLGS  
TSHFPQEKTHNHDPQPGDPNSRPSSPKPAQPAKMQVLYEFEARNPRELTVVQGEKLEVL  
DHSKRWWLVKNEAGRSGYIPSNILEPLQPGTPGTQGGSPSRVPMRLSSRPEEVDWLQA  
ENFSTATVRTLGSLTGSQLLRIRPGELQMLCPQEAPRILSRLEAVRRMLGISP

>sp|Q96AP7|ESAM\_HUMAN Endothelial cell-selective adhesion molecule OS=Homo sapiens  
GN=ESAM PE=1 SV=1

MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV  
SSSQPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD  
SGPYSCSVNVQDKQKSRGHSIKTLELNLVPPAPPSCRLQGVPVHGAVNLTSCQSPRSK  
PAVQYQWDRQLPSFQTFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNTLE

VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLWPWKS  
SDTISKNGTLSSVTSARALRPPHGP RP GAL TPTPSLSSQALPSPRLPTTDGAHPQPISP  
IPGGVSSSSGLSRMGAVPVMVPAQSQAGSLV

>sp|Q8IXQ9|ETKMT\_HUMAN Electron transfer flavoprotein beta subunit lysine  
methyltransferase OS=Homo sapiens GN=ETFBKMT PE=1 SV=1

MALSLGWKAHRNHCGLLQLARSSGLLLFPCGQCPWRGAGSFLDPEIKAFLEENTEVTS  
GSLTPEIQLRLLTPRCKFWWERADLWPHSDPYWAIYWPGGQALSRYLLDNPDVVRGKSVL  
DLGSGCGATAIAAKMSGASRILANDIDPIAGMAITLNCELNRLNPFILIQNILNLEQDK  
WDLVVLGDMFYDEDLADSLHQWLKKCFWYTRVRLIGDPGRPQFSGHSIQHHLHKVVEYS  
LLESTRQENSGLTSTVWGFQP

>sp|Q6ZN32|ETV3L\_HUMAN ETS translocation variant 3-like protein OS=Homo sapiens GN=ETV3L  
PE=2 SV=1

MHCSCLAEGIPANPGNWISGLAFPDWAYKAESSPGSRQIQLWHFILELLQKEEFRHVIW  
QQGEYGEFVIKDPDEVARLWGRKCKPQMNYDKLSRALRYYNKRILHKTGKRFTYKFN  
FSKLIVVNYPLWEVRAPPSPHLLLGPALCRPALVPVGVQSELLHSMFAHQAMVEQLTG  
QQTPRGPPETSGDKKSSSSVYRLGSAPGPCRLGLCCHLGSVQGELPGVASFTPLPPPL  
PSNWTCLSGPFLPPLPSEQQLPGAFAKPDILLPGPRSLPGAWHFPGLPLLAGLGQGAGERL  
WLLSLRPEGLEVKPAPMMEAKGGLDPREVFCPETRRLKTGEESLTSPNLNLKAVWPLDP  
P

>sp|P43268|ETV4\_HUMAN ETS translocation variant 4 OS=Homo sapiens GN=ETV4 PE=1 SV=3

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QETWLAEAQVPDSDEQFVPDFHSENLAHSPTRIKKEPQSPRTDPALSCSRKPPLPYHH  
GEQCLYSSAYDPPRQIAIKSPAPGALGQSPLQFPRAEQRNFLRSSGTSQPHPGHYLGE  
HSSVFQQPLDICHSFTSQGGGREPLPAPYQHQLSEPCPPYPQQSFKQEYHDPLYEQAGQP  
AVDQGGVNGHRYPGAGVVIKQEQTDFAYDSVDTGCASMYLHTEGFSGPSGPGDAMGYGYE  
KPLRPFDDVCVVPKEFEGDIKQEGVGAFREGPPYQRRGALQLWQFLVALLDDPTNAHFI  
AWTGRGMEFKLIEPEEVARLWGIQKNRPAMNYDKLSRSLRYYYEKGIMQKVAGERYVYKF  
VCEPEALFSLAFPDNQRPALKAEDRPVSEEDTVPLSHLDESPAYLPELAGPAQPFGPKG  
GYSY

>sp|Q03828|EVX2\_HUMAN Homeobox even-skipped homolog protein 2 OS=Homo sapiens GN=EVX2  
PE=2 SV=2

MMERIRKEMILMERGLHSPTAGKRFSNLSNSAGNAVLEALENSQHPARLSPRLPSAPLHS  
ALGELPAKGKFEIDTLFNLQHTGSESTVSSEISSAAESRKKPGHYSEAAAEADMSSDVEV  
GCSALRSPGGLGAAQLKENNGKGYAESGSAAGTTTSASGSGLSLHGGSGGSGSAAALGG  
SGSGADQVRRYRTAFTREQIARLEKEFYRENYVSRPRCELAAALNLPETTIVWFQNR  
MKDKRQRLAMSWHPADPSFYTYMMTHAAATGSLPYPFHSHVPLHYYPHVGVTA  
ASGAAAAASSPFATSIPLDTFRALSHPYSRPELLCSFRHPGLYQAPAAAAGLNSAASAA  
AAAAAAAAAASSAAAGAPPSGGSAPCSCLSCHSSQAAAAAAAAAALGSRGGGGGGGG  
GGGGGGGAGAGGGSDFGCSAAAPRESGFLPYSAAVLSKTAVSPPDQRDEAPLTR

>sp|Q9NVH0|EXD2\_HUMAN Exonuclease 3'-5' domain-containing protein 2 OS=Homo sapiens  
GN=EXD2 PE=1 SV=2

MSRQNLVALTVTTLLGVAVGGFVLWKGIQRRRRSKTSPVTQQPQQKVLGSRELPPPEDDQ  
LHSSAPRSSWKERILKAKVVTVSQEAEDQIEPLLRSLEDFPVLGIDCEWVNLEGKASP  
LSLLQMASPSGLCVLVRPKLICGGKTLPRTLILDILADGTILKVGVCSEDASKLLQDYG

LVVRGCLDLRYLAMRQRNNLLCNGLSLKSLAETVLNFPPLDKSLLLRCSNWDATLTEDQV  
IYAARDAQISVALFLHLLGYPF SRNSPGEKNDHSSWRKVLEKCQGVVDIPFRSKGMSRL  
GEEVNGEATESQQKPRNKKSKMDGMVPGNHQGRDPRKHKRKPLGVGYSARKSPLYDNCFL  
HAPDGQPLCTCDRRKAQWYLDKGIGELVSEEPFVVKLRFEPAGRPESPGDYLMVKENLC  
VVCGRDSYIRKNVIPHEYRKHFPIEMKDHNSHDVLLLCTSCHASNYNDNHLKQQLAKE  
FQAPIGSEEGRLLEDPERRQVRSGARALLNAESLPTQRKEELLQALREFYNTDVVTEEM  
LQEAASLETRISNENYVPHGLKVQCHSQGGLRSLMQLESWRQHFLDSMQPKHLPQQWS  
VDHNHQKLLRKFGE DLPIQLS

>sp|Q9H790|EXO5\_HUMAN Exonuclease V OS=Homo sapiens GN=EXO5 PE=1 SV=1

MAETREEETVSAEASGFSDSLSDSEFLEFLDLEDAQESKALVNMPGPSSSESLGKDDKPISL  
QNWKRGLDILSPMERFHLKYLYVTDLATQNWCELQTAYGKELPGFLAPEKAAVLDTGASI  
HLARELELHDLVTPVTTKEDAWAIKFLNILLIPTLQSEGHIREFPVFGE GEGVLLVGV  
IDELHYTAKGELELAELKTRRRPMLPLEAQKKKDCFQVSLYKYIFDAMVQGVTPASLIH  
HTKLCLEKPLGPSVLRAHQGGFSVKSLGDLMELVFLSLTSDLPVIDILKIEYIHQETA  
TVLGTEIVAFKEKEVRKAVQHMYMWMGHREPQGV DVEEAWKCRCTCTYADICEWRKGSV  
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>sp|Q9NV70|EXOC1\_HUMAN Exocyst complex component 1 OS=Homo sapiens GN=EXOC1 PE=1 SV=4

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GDFYKRQIAWALRD LAVVDAKDAIKENPEFDLHFEKIYKVVASSTA EKNAFISCIWKLNQ  
RYLRKKIDFVNVSQ LLEESVPSGENQSVTGGDEEVVDEYQELNAREEQDIEIMMEGCEY  
AISNAEFAEKL SRELQVL DGANIQSIMASEKQVNILMKLLDEALKEVDQIELKLSYEE  
MLQSVKEQMDQISESNHLIHLSTNNVKLLSEIEFLVNHMDLAKGH IKALQEGDLASSRG  
IEACTNAADALLQCMNVALRPGHDL LLA VKQQQRFSDREL FARRLASHLNNV FVQQGH  
DQSSTLAQHSVELTLPNHHPFHRDLLRYAKLMEWLKSTDYGYEGLTKNYMDYLSRLYER  
EIKDFFEVAKIKMTGTTKESKKFATLPRKESAVKQETESLHGSSGKLTGSTSSLNKL SVQ  
SSGNRRSQSSSLDMGNMSASDL DVADRTKFDKIFEQV LSELEPLCLAEQDFISKFFKLQ  
QHQSMPGTMAEAE DL DGGT LSRQHNCGTPLVSSEKDMIRQMMIKIFRCIEPELNNLIAL  
GDKIDSFNSLYMLVKMSHHVWTAQNVDPASFLSTTLGNVLVTVKRNFDKCISNQIRQMEE  
VKISKSKV GILPFVAEFEEFAGLAESIFKNAERRGDLKAYTKLIRGVFVNVEKVANES  
QKTPRDVVMENFHHIFATLSRLKISCLEAEKKEAKQKYTDHLQSYVIYSLGQPLEKLNH  
FFEGVEARVAQGIREEEVS YQLAFNKQELRKVIKEYPGKEVKKGLDNLYKKVDKHLCEEE  
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>sp|Q8NEV8|EXPH5\_HUMAN Exophilin-5 OS=Homo sapiens GN=EXPH5 PE=1 SV=3

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EEIQRKKFCNETDVSQMLKQPLTYRLSKEMAKNDPIELPTSRSKNVTNQKKPTPFSSRMS  
FRSSFASLFSFRKSGKETSKLPSLGQKGCDGHAGPPMPVRGA AVQAKIYNSPLENHLVDS  
TFVPKPAVMREESGMP PPWDASLLENEFFQVLDLDSKLAQE QSASSVNTRTPLNYGSRT  
QFGHFYSSGNRHGNITERHKKHYNETSNMSIYDILRPGTPREGFKTFSPTSTIYDMYRT  
REPRVFKEDYVQNTFGSTSLCFDSRQRSALPATGHFTARSLHFPATTQSKSGFIPPRHQ  
QSPKRTPLSSIWNRS DSSRDRENQEEFLRAPSPMEIDPADKYVYPRGFQENKRYESYHS  
QNVYQRVSLNAPMENAMSPDTFENSENMPFYHQSNFTFRSFFSNTFGRSGEQRRFGQGP  
WGQEKGHSFWSDFHRSRKSFSSSDRDFEMISMEANSVSAIHGHNVSSEHWESFSSGYGTD  
VSRGQEEPPHPWQDFQ RSTLDSMVVSHGNETQLTPHFGTPNVCSMTGSSYHVKSSELVSQ  
QDSSPVEVHINKEASSFGIAQTLASSFKTSFSQISDDRNPQSPNLQNPTVTLQKIFPNK

PASHPMRSHTVTVTSSNSVDSLPLAKSQPNILVTEVNNEKDLNESISEEDKQLSKMDQT  
NKAGEIPQPVSTGINSNLPDFQNPLSQDSAKSNGFGFNASTIISSKKSPRVFSRKDTSK  
MYIPHTDKSNDIKQDKRFTENRKLGSTASLPFIQEHRTPPSPFRTDQGCHQELTVNNEDI  
SRIITNNHWSSALTDQNAQYSKCKLTPGHKTSKSLDLSSAALPDSSPSKNSSLDAPVV  
PSTTVFSRRSPSKDPSLGEREEKDNAGKNQKNQFIVSHSENQERNDSVPVTHDEVVDVK  
CHSHSPFRNERGKGIIRHHISCIEKLSKTESISVPTSDHRSLIEANQNSKVSSELDTIYC  
TLPRKSSSFLIHGRQSGSKIMAASLRNGPPPFQIKNNVEDAMGNYMLNKFSPSSPESANE  
CSKVLSDSALEAPEATERMTNVKSSGSTSVRKGPLPFLINRAMSCPSGEPHASTGREGRK  
KPLTSGMDASELTPRAWERIISPVEDSSVRDCSLTKRQHQQENFQEYTEKEGKMAASRR  
SVFALSNEEDPLPFCSDLGKERGKTLHKVKTSTFSVSGDEDNVKCLEVVSIIYYTLPRKP  
SKKFCNLLQQYTQNTNLLIESPQVETETFPNALEKDKQNYSTREQSGTPSCENLKMSVNS  
DQTLTTENMTAFRLSNRGLAPTLQEMASVEAAVSLPEEESKAREIFSDNLAKTPLGDSE  
NKKERGKQLQSETLHTSMLQRKNVSEEKSENCQQSINSSNSGPSSLPALSEVNIGNSQT  
RRSSWECTGSGRAIPFTGSGKCPQKDHTSTAVGDGSSGSQPREGRGDIGTNCQKMTNKT  
SHSESQVFALTPALHKLQLGEETQSDPENLESLQSEPRELPQRSQEANMTESRKAEDQM  
KSAWDQPSLPEGKNKNTNDDLKGENRSSVKHRLAAMSKASRKFPKDVSPRRHVATIF  
PQSGSRSGFDHLSLGTVECNPLFPEPTPKSAESIGESRLENGKHVKKSENLLPITVLPN  
REPSTHVSNNKSNISQRHQNEFKNVSESPSKHENS KDVTAAQNLVRESGAPSPITFTSL  
REAEFSDNQRLSPFPLEPAQKSRVSSPLASFLQQQRSASSLEWEPEPHLYRSKSLKSI  
NVHGDLLRKSHPPKVRERHFSESTSIDNALSRLTLGNEFSVNNGYSRFRSFSELPSCDG  
NESWAYRSGTKTGPRAISIIYRPIDYGIFGKEQQLAFLENVKRSLTQGRWKPSFLKNPG  
FLKDDLNRPPNPSESLSSNSPSSQVPEDGLSPSEPLNIYEDDPVDSNCDTDTTDDDEYYL  
DENDKESEL

>sp|Q93063|EXT2\_HUMAN Exostosin-2 OS=Homo sapiens GN=EXT2 PE=1 SV=1

MCASVKYNIRGPALIPRMKTKHRIYYITLFSIVLLGLIATGMFQFWPHSIESSNDWNVEK  
RSIRDVPVVRLPADSPIPERGDLSRMTCTCFDVYRCGFNPKNKIKVYIYALKKYVDDFGV  
SVSNTISREYNELLMAISDSYYTDDINRACLFVPSIDVLNQNTLRIKETQAQAQLSRW  
DRGTNHLFLNMLPGGPPDYNTALDVPDRALLAGGGFSTWYRQGYDVSIPVYSPLSAEV  
DLPEKGPGPRQYFLLSSQVGLHPEYREDLEALQVKHGESVLVDKCTNLSEGLSVRKRC  
HKHQVFDPQVLQEATFCVVLRGARLGQAVLSDVLQAGCVPVVIADSYILPFSEVLDWKR  
ASVVVPEEKMSDVYSILQSIQQRQIEEMQRQARWFEAYFQSIKAIATLQIINDRIYP  
YAAISYEEWNPAPVKGWSVNPLFLPLIPPQSQGFTAIVLTYDRVESLFRVITEVSKVP  
SLSKLLVVWNNQKNPPEDSLWPKIRVPLKVVRTAENKLSNRFFPYDEIETEAVLAIDDD  
IIMLTSDQLQFGYEVWREFPDRLVGYPGRHLWDHEMNKWKYESEWTNEVSMVLTGAAFY  
HKYFNYLYTYKMPGDIKNWVDAHMCNEDIAMNFLVANVTGKAVIKVTPRKKFKCPECTAI  
DGLSLDQTHMVERSECINKFASVFGTMPLKVVEHRADPVLYKDDFPEKLSFPNIGSL

>sp|O43909|EXTL3\_HUMAN Exostosin-like 3 OS=Homo sapiens GN=EXTL3 PE=1 SV=1

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GKRIFGPRVGNELCEVKHVDLCRITRESVSEELLQLEAKRQELNSEIAKLNKIEACKKS  
IENAKQDLLQLKNVISQTEHSYKELMAQNQPKLSLPIRLPEKDDAGLPPPKATRGCRLH  
NCFDYSRCPLTSGFPVYVYDSQFVFGSYLDPLVKQAFQATARANVYVTENADIACLYVI  
LVGEMQEPVLRPAELEKQLYSLPHWRTDGHNVIIINLSRKSDTQNLLYNVSTGRAMVAQ  
STFYTVQYRPGFDLVVSPLVHAMSEPNFMEIPPQVPVKRKYLFTFQGEKIESLRSSLQEA  
RSFEEEMEGDPPADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED

RLELLKLSTFALIITPGDPRLVISSGCATRLFEALEVGAVPVVLGEQVQLPYQDMLQWNE  
AALVVPKPRVTEVHFLLRSLSDSLLAMRRQGRFLWETYFSTADSIFNTVLAMIRTRIQI  
PAAPIREEAAAEIPHRSGKAAGTDPNMADNGDLGVPVETEPYASPRYLNRFTLTVTDF  
YRSWNCAPGPFHLFPHTPFDVLPSEAKFLGSGTGFRPIGGGAGSGKEFQAALGGNVPR  
EQFTVVMLTYEREEVLMNSLERLNLPLYLNKVVVVWNSPKLPSEDLLWPDIGVPIVVRT  
EKNSLNNRFLPWNEIETEAISIDDDAHLRHDEIMFGFRVWREARDRIVGFPGRYHAWDI  
PHQSWLYSNSYCELSMVLTGAAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNFLV  
SHITRKPPIKVTSRWTFRCPGCPQALSHDDSHFHERHKCINFFVKVGYMPLLYTQFRVD  
SVLFKTRLPHDKTKCFKFI

>sp|Q969W3|F104A\_HUMAN Protein FAM104A OS=Homo sapiens GN=FAM104A PE=1 SV=2

MGGRGADAGSSGGTGPTGEGYSPAASTRAAAARAKAGGGRRNTTPSVPSLRGAAPRS  
FHPPAAMSERLRPRKRRRNGNEEDNHLPPQTKRSSRNPVFQDSWDTESGSDSGGSSSSS  
SSSINSPDRASGPEGSLSQTMAGSSPNTQPVPPEQSALCQGLYFHINQTLREAHFHSLSQH  
RGRPLT

>sp|P50502|F10A1\_HUMAN Hsc70-interacting protein OS=Homo sapiens GN=ST13 PE=1 SV=2

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGKVPATQKAKSEENTKEEKP  
DSKKEEDLKADEPSSEESDLEIDKEGVIEPDTAPQEMGDENAEITEEMMDQANDKKVA  
AIEALNDGELQKAIDLFTDAIKLNPRLAILYAKRASVFVKLQKPNAAIRDCDRAIEINPD  
SAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQPRAQKIAEHRRKYER  
KREEREIKERIERYKKAREEHARAQREEEARRQSGAQYGSFPGGFGMPGNFPGMPPGM  
GGGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQNANMSKYQSNPKVMNLISK  
LSAKFGGQA

>sp|Q9NX38|F206A\_HUMAN Protein Simiate OS=Homo sapiens GN=FAM206A PE=1 SV=1

MATEPEAAEPVPSLVDRYFTRWYKPDVKGKFCEDHCILQHSNRICVITLAESHPVLQSG  
KTIKSISYQISTNCSRLQNKVSGKFKRGAQFLTELAPLCKIYCSDGEEYTVSSCVRGRML  
EVNENILHKPSILQEKSTEGYIAVVLPKFEESKSITEGLLTQKQYEEVMVKRINATTAT  
S

>sp|Q96EL1|F212A\_HUMAN Protein FAM212A OS=Homo sapiens GN=FAM212A PE=1 SV=1

MHSARLDSFLSCLRWELLCGRDTGSPSPMPGLQPTSQTGPDVQPSHQLRASGALEEDSVC  
CVEEEEEEEEAHVTEDRDAALGGPREHALDWDSGFSEVSGSTWREEELPVSQRPAPSAQ  
PLRRQCLSVSGLPMPSRAPVASVPPVHPRKSTPDACLEHWQGLEAEDWTAALLNRGRS  
RQPLVLGDNCFADLVHNMELPETGSEGGGGHRARARPPQFLGLSEQLRRRLARARR  
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>sp|Q7L5A3|F214B\_HUMAN Protein FAM214B OS=Homo sapiens GN=FAM214B PE=1 SV=1

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EPHRALKRQAPSTEGPRELKRGPGLGAREGLPPEEPSTVGLLGPGLGLGVASQHFSH  
RGLCVVEQRSSVTSSWTSGAWSPPCPPSNASCNTLHTRDWASPDGGQGS LGESPGPAPP  
GQLHTLDTDLHSLAQIGGKSPVAGVNGGSLWPRESPTANGHSPEHTPPGPGPPGPCPT  
KRRLLPAGEAPDVSEEEGPAPRRRRGSLGHPTAANSSDAKATPFWSHLLPGPKEPVLDP  
TDCGPMGRRLKGARRLKSPLRSLRKGPGLSPPSASPVPTPAVSRTLLGNFEESLLRGR  
FAPSGHIEGFTAIEIGASGSYCPQHVTLPVTVTFFDVSEQNAPAPFLGIVDLNPLGRKGYS  
VPKVGTVQVTLFNPNTVVKMFLVTFDFSDMPAAHMTFLRHRLFLVPVGEEGNANPTHRL  
LCYLLHLRFRSSRSRGLSLHGDIRLLFSRRSLELDTGLPYELQAVTEAPHNPRYSPLP

>sp|A4D161|F221A\_HUMAN Protein FAM221A OS=Homo sapiens GN=FAM221A PE=2 SV=1

MERLTLPLGGAAVDEYLEYRRIVGEDDGGKLFTEEEYKRVLPRLQNRLFVSWRS  
PTGMDCKLVGPETLCFCTHRYKQHKTDLEAIPQQCPIDLPCQVTGCQCRAVLYVPLNGSQ  
PIRCRCKHFADQHSAPGFTCNTCSKSGFHCFTACGQPAYAHDVVETKQERLAQEK  
PVGQDIPYAAMGGLTGFSLSAEGYMRLLDSGIGVPSVEFLESPIAVDSPFLKAFQASSS  
SSPETLTDVGTSSQVSSLRRPEEDMAFFERRYQERMMEKAAKWKGAFLPSATKPS

>sp|A6NL05|F74A7\_HUMAN Protein FAM74A7 OS=Homo sapiens GN=FAM74A7 PE=3 SV=3

MWRELRCGPGGDVETVQRLSRRRRGKSSEAVPEKTWRAQRMSQTRESSEAVPEKTWREFR  
GCPGEDVERAQRRLDCPGEDETAQRSLARRAESSEAVPEKTWRELKGCPQEDVERVQR  
LSLLLHLAVFLWIIIAINFNSGVKSQSSTYLPSGKILK

>sp|A6NEL3|F86C2\_HUMAN Putative protein FAM86C2P OS=Homo sapiens GN=FAM86C2P PE=5 SV=1

MAPEENAGTELLQLSLERRFLAARALRSFPWQSLEAKLRDSSSELLRDILQKHEAVHTE  
PLDELYEVLAEITMAKESTQGHRSYLLTCCIAQKPSCRWSGSGGWLPAGSTSGLLKSMW  
PLPSATQRRASCSPLSYAGLGSDGKWNLMTRNCFPTKSTWRWQC

>sp|P23610|F8I2\_HUMAN Factor VIII intron 22 protein OS=Homo sapiens GN=F8A1 PE=1 SV=2

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ECLPYAAWCQLAVARCQQALFHGPGEALALTEAARLFLRQERDARQLVCPAAYGEPLQA  
AASALGAAVRLHLELGQPAALALCLELAAALRDLDGQPAAGHFQRAAQLQLPLPLAA  
LQALGEAASCQLLARDYTGALAVFTRMQLAREHGSHPVQSLPPPPPPAPQPGGATPAL  
PAALLPPNSGSAAPSPAALGAFSDVLRCEVSRVLLLLLQPPPAKLLPEHAQTLEKYSW  
EAFDSHGQESSGQLPEELFLLQLSLVMATHEKDTEAIKSLQVEMWPLLTAEQNHLLHLVL  
QETISPSGQGV

>sp|P52799|EFNB2\_HUMAN Ephrin-B2 OS=Homo sapiens GN=EFNB2 PE=1 SV=1

MAVRSDSVWYKCGVLMVLCRTAISKSIVLEPIYWNSSNSKFLPGQGLVLYPQIGDKLDI  
ICPKVDSKTVGQYQYKVMVDKQADRCTIKKENTPLLCAKPDQDIKFTIKFQEFSPN  
LWGLEFQKNKDYYIISTNSGLELDNQEGGVCQTRAMKILMKVGQDASSAGSTRNKDPT  
RRPELEAGTNGRSSTSPFVKPNPGSSTDGNSAGHSGNNGILGSEVALFAGIASGCIIFIV  
IIITLVVLLKYRRRHRKHSPQHTTSLSTLATPKRSGNNGSEPSDIIPLRTADSVF  
CPHYEYKVGSDYGHVPYIVQEMPPQSPANIYYKV

>sp|P41567|EIF1\_HUMAN Eukaryotic translation initiation factor 1 OS=Homo sapiens GN=EIF1  
PE=1 SV=1

MSAIQNLHSFDPFADASKGDDLLPAGTEDYIHIRIQQRNGRKTTLTVQGIADDYDKKKLV  
KAFKKKFACNGTVIEHPEYGEVIQLQGDQRKNICQFLVEIGLAKDDQLKVHGF

>sp|Q9BY44|EIF2A\_HUMAN Eukaryotic translation initiation factor 2A OS=Homo sapiens  
GN=EIF2A PE=1 SV=3

MAPSTPLLTVRGSEGLYMNPPHFTSTVFPRESGKNCKVCIFSKDGTLFAWNGEKNV  
IISVTNKGLLHSFDLLKAVCLEFSPKNTVLATWQPYTTSKDGTAGIPNLQLYDVKTGTCL  
KSFIQKKMQNWCPSWSEDETLCAARNVNNEVHFFENNNFNTIANKLHLQKINDFVLSPPGQ  
PYKVAVYVPGSKGAPSFVRLYQYPNFAGPHAALANKSFFKADKVTMLWNKKATAVLVIAS  
TDVDKTGASYYGEQTLHYIATNGESAVVQLPKNGPIYDVVWSSSTEFCAVYGFMPAKAT  
IFNLKCDPVDFDGTGRNAAYSPHGHLVLAGFGNLRGQMEVWDVKNYKLISKPVASDS  
TYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSILHKYDVPSNAELWQVSWQPFLDGI  
FPAKTITYQAVPSEVPNEEPKVATAYRPPALRNKPIITNSKLHEEPPQNMKPQSGNDKPL  
SKTALKNQRKHEAKKAAQKARSKSPDLAPTAPQSTPRNTVSQSISGDPEIDKKIKNL  
KKKLKATIEQLKEQAATGKQLEKNQLEKIQKETALLQELEDLELGI

>sp|Q99613|EIF3C\_HUMAN Eukaryotic translation initiation factor 3 subunit C OS=Homo sapiens GN=EIF3C PE=1 SV=1

MSRFFTTSSESSLSGEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKDRFEEL  
TNLIRTIRNAMKIRDVTKLEEFELLGKAYGAKSIVDKEGVPRFYIRILADLEDYLNEL  
WEDKEGKKKMNNAKALSTLRQKIRKYNRDFESHITSYKQNPEQSADEDAEKNEEDSEG  
SSDEDEDEDGVSAAFLKKKSEAPSGESRKFLKKMDEDEDESEDEDEDWDTGSTSSDS  
DSEEEEGKQTALASRFLKKAPTDEDKAAEKKREDKAKKKHDRKSKRLDEEEDNEGGE  
WERVRGGVPLVKEPKMFAKGTETHAVVIKKLNEILQARGKGTDRAAQIELLQLLVQI  
AAENNLGEGVIVKIKFNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFV  
GENILEESENHNADQPLRVGCILTLVERMDEEFTKIMQNTDPSQEYVEHLKDEAQVC  
AIIERVQRYLEEKGTTEVCRIYLLRILHTYKFDYKAHQRLTPPEGSSKSEQDQAE  
GEDSAVLMERLCKYIYAKDRDTRIRTCAILCHYHHALHSRWYQARDLMLSHLQDNQIH  
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQ  
EQEKVERRRQVPFHLHINLELLECVYLVSAMLLEIPYMAAHESDARRRMISKQFHHQLRV  
GERQPLLGPPEMREHVVAASKAMKMGDWKTCHSFIINEKMNGKVWDLFPEADKVRTMLV  
RKIQEESLRTYLFYSSVYDSISMETLSDMFELDLPTVHSIISKMIINEELMASLDQPTQ  
TVVMHRTEPTAQNLALQLAEKLGSLVENNERVFDHKQGTGGYFRDQKGYRKNEGYMR  
RGGYRQQSQSTAY

>sp|Q12926|ELAV2\_HUMAN ELAV-like protein 2 OS=Homo sapiens GN=ELAVL2 PE=1 SV=2

METQLSNGPTCNNTANGPTTINNCCSSPVDSGNTEDSKTNLIVNYLPQNMTQEELKSLFG  
SIGEIESCKLVDRKITGQSLGYGFVNYIDPKDAEKAINTLNGLRLQTKTIKVSYPSSA  
SIRDANLYVSGLPKTMQKELEQLFSQYGRITSRILVDQVTGISRGVGFIRFDKRIEAE  
EAIKGLNGQKPPGATEPITVKFANNPSQKTNQAILSQLYQSPNRRYPGPLAQAQRFRD  
NLLNMAYGVKRFSPMTIDGMTSLAGINIPGHPGTGWCIFVYNLAPDADESILWQMFPGPG  
AVTNVKVIRDFNTNKCKGFGFVMTNYDEAAMAIASLNGYRLGDRVLQVSFKTNKTHKA

>sp|P0DMC3|ELA\_HUMAN Apelin receptor early endogenous ligand OS=Homo sapiens GN=APELA PE=2 SV=1

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>sp|P55199|ELL\_HUMAN RNA polymerase II elongation factor ELL OS=Homo sapiens GN=ELL PE=1 SV=1

MAALKEDRSYGLSCGRVSDGSKSVFHVKLTDALRAFESYRARQDSVSLRPSIRFQGSQ  
GHISIPQPDCAEARTFSFYLSNIGRDNPPQGSFDCIQQYVSSHGEVHLDCLGSIQDKITV  
CATDDSYQKARQSMAQAEETRSRSAIVIKAGGRYLGGKVQFRKPAPGATDAVPSRKRAT  
PINLASAIRKSGASAVSGSGVSQRPFRDRVLHLLALRPYKAELLLRLQKDGLTQADKD  
ALDGLLQQVANMSAKDGTCTLDQCMYKDVQKDWPGYSEGQQLLKRVLVRKLCQPQSTGS  
LLGDPAASSPPGERGRSASPPQKRLQPPDFIDPLANKKPRISHFTQRAQPAVNGKLGVPN  
GREALLPTPGPPASTDTLSSSTHLPPRLEPPRAHDPLADVSNLGHSGRDCEHGEAAAPA  
PTVRLGLPLLTDCAQPSRPHGSPSRSKPKKSKKHKDKERAAEDKPRAQLPDCAPATHAT  
PGAPADTPGLNGTCSVSVPTSTSETPDYLLKYAAISSSEQRQSYKNDFNAEYSEYRDLH  
ARIERITRRFTQLDAQLRQLSQGSEYETTRGQILQEYRKIKKTNTNYSQEKHRCEYLHS  
KLAHIKRLIAEYDQRQLQAWP

>sp|Q92556|ELM01\_HUMAN Engulfment and cell motility protein 1 OS=Homo sapiens GN=ELM01 PE=1 SV=2

MPPPADIVKVAIEWPGAYPKLMEIDQKKPLSAIIKEVCDGWSLANHEYFALQHADSSNFY

ITEKNRNEIKNGTILRLTTSPAQNAQQLHERIQSSSMDAKLEALKDLASLSRDVTFAQEF  
INLDGISLLTQMVESGTERYQKLQKIMKPCFGDMLSFTLTAFVELMDHGIVSWDTFSVAF  
IKKIASFVNKSAIDISILQRSLAILESMVLNSHDLYQKVAQEITIGQLIPHLQGSDQETQ  
TYTIAVINALFLKAPDERRQEMANILAQKQLRSIILTHVIRAQRAINNEMAHQLYVLQVL  
TFNLLEDMMTKMDPQDQAQRDIIFELRRIAFDAESEPNNSSGSMKKRSMYTRDYKKLG  
FINHVNPAAMDFTQTTPPGMLALDNMLYFAKHHQDAYIRIVLENSREDKHECPFGRSSIEL  
TKMLCEILKVGELPSETCNDFHPMFFTHDRSFEEFFCICIQLLNKTWKEMRATSEDFNKV  
MQVVKEQVMRALTTKPSLQDQFKSKLQNLSTEILKIRQSERMNQEDFQSRPILELKEKI  
QPEILELIKQRLNRLVEGTCFRKLNARRRQDKFWYCRLSPNHKVLHYGDLEESPQGEVP  
HDSLQDKLPVADIKAVVTGKDCPHMKEKGALKQKNEVLELAFSILYDSNCQLNFIAPDKH  
EYCIWTDGLNALLGKDMSDLTRNDLDTLLSMEIKLRLLDLENIQIPDAPPIPKEPSNY  
DFVYDCN

>sp|Q14241|ELOA1\_HUMAN Transcription elongation factor B polypeptide 3 OS=Homo sapiens  
GN=TCEB3 PE=1 SV=2

MHGGRSCGPRTRREPSSGEEAAPVTAMAAESALQVVEKLQARLAANPDPKLLKYLKKLS  
TLPITVDILAETGVGKTVNSLRKHEHVGSFARDLVAQWKKLVPVERNAEPDEQDFEKSNS  
RKRPRDALQKEEEMEGDYQETWKATGSRSYSPDHRQKKHRKLSELERPHKVSHGHERRDE  
RKRCHRMSPITYSSDPESDYGHVQSPPSCTSPHQMYVDHYRSLEEDQEPVSHQKPGKGH  
SNAFQDRLGASQERHLGEPHGKGVVSQNKEHKSSHKDKRPVDAKSDEKASVVSREKSHKA  
LSKEENRRPPSGDNAREKPPSSGVKKEKDREGSSSLKKCLPPSEAASDNHLKKPKHRDPE  
KAKLDKSKQGLDSFDTGKGAGDLLPKVKEKGSNNLKTPEGKVKTNLDRKSLGSLPKVEET  
DMEDEFEQPTMSFESYLSYDQPRKKKKKIVKTSATALGDKGLKKNDSKSTGKNLDSVQKL  
PKVNKTSEKPAAGDLAKLRKVPDVLVLPDLPLPAIQANYRPLPSLELISSFQPKRKAF  
SSPQEEEEAGFTGRRMNSKMVYSGSKCAYLPKMMTLHQQCIRVLKNNIDSIFEVGGVPY  
SVLEPVLERCTPDQLYRIEYNHVLIEETDQLWKVHCHRDfKEERPEEYESWREMYLRLQ  
DAREQRLRVLTKNIQFAHANKPKGRQAKMAFVNSVAKPPRDVRRRQEKFGTGGAAPPEKI  
KIKPAPYPMGSSHASASSISFNPSPEEPAYDGPSTSSAHLAPVVSSTVSYDPRKPTVKKI  
APMMAKTIKAFKNRFSRR

>sp|P60002|ELOF1\_HUMAN Transcription elongation factor 1 homolog OS=Homo sapiens GN=ELOF1  
PE=3 SV=1

MGRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTP  
ITYLSEPVVDVYSDWIDACEANQ

>sp|Q9BW60|ELOV1\_HUMAN Elongation of very long chain fatty acids protein 1 OS=Homo sapiens  
GN=ELOVL1 PE=1 SV=1

MEAVVNLYQEVMKHADPRIQGYPLMGSPLLMTSILLTYVYFVLSLGPRIANRKPFLRG  
FMIVYNFSLVALSLYIVYEFLMSGWLSTYTWRCDPVDYSNSPEALRMVRVAWLFLFSKFI  
ELMDTVIFILRKKDGQVTFLLHFVHHSVLPWSWWWGVKIAPGGMGSFHAMINSSVHVIMYL  
YYGLSAFGPVAQPYLWWKKHMTAIQLIQFVLVSLHISQYYFMSSCNYQYPVIIHLIWMYG  
TIFFMLFSNFWYHSYTKGKRLPRALQQNGAPGIAKVKAN

>sp|Q9NYP7|ELOV5\_HUMAN Elongation of very long chain fatty acids protein 5 OS=Homo sapiens  
GN=ELOVL5 PE=1 SV=1

MEHFDASLSTYFKALLGPRDTRVKGWFLLDNYIPTFICSVIYLLIVWLGPKYMRNKQPF  
CRGILVVYNLGLTLLSLYMFCELVGTGVWEGKYNFFCQGTRTAGESDMKIIIRVLWWYYFSK  
LIEFMDTFFFILRKNNHQITVLHVYHHASMLNIWWFVMNWVPCGHSYFGATLNSFIHVL



YSYGLSSVPSMRPYLWWKKYITQGQLLQFVLTIIQTSCGVIWPCTFPLGWLYFQIGYMI  
SLIALFTNFYIQTYNKKGASRRKDHLKDHQNGSMAAVNGHTNSFSPLENNVKPRKLRKD

>sp|P54851|EMP2\_HUMAN Epithelial membrane protein 2 OS=Homo sapiens GN=EMP2 PE=1 SV=1

MLVLLAFIIAFHITSAALLFIATVDNAWWVGDEFFADVWRICNTNTNCTVINDSFQEYST  
LQAVQATMILSTILCCIAFFIFVLQLFRLKQGERFVLTSIIQLMSCLCVMIAASIYTDNR  
EDIHDKNAKFYPVTREGSYGYSYLAWVAFACTFISGMMYLILRKRK

>sp|Q9HDB8|ENK5\_HUMAN Endogenous retrovirus group K member 5 Env polyprotein OS=Homo sapiens GN=ERVK-5 PE=2 SV=1

MVTPVTWMDNPIEVVNDVSVVPGPTDDRCPAKPEEEGMMINISIVRYPPICLGRAPGC  
LMPAVQNWLVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFRPKGKPCPKET  
PKESKNTVLVWEECVANSAILQNEFGTIIIDWAPRGQFYHNCSGGTQSCPSAQVSPAV  
DSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPEIISPVSQPEHPELWRLWPDTTLEFG  
LEIKL

>sp|Q9H0I2|ENKD1\_HUMAN Enkurin domain-containing protein 1 OS=Homo sapiens GN=ENKD1 PE=1 SV=1

MCEGPSRISGPIPPDPTLCPDNVRRPTSAQGRLEGNAKLDLLTSDRALDTPAPRGPCIG  
PGAGEILERGQRGVGDVLLQLEGISLPGGASLKRKDPKDEKENLRRIREIQKRFREQER  
SREQGQPRPLKALWRSPKYDKVESRVKAQLQEPGPASGTESAHLRAHSRCGPGPLPPHV  
SSPQPTPPGPEAKEPGLGVDFIRHNARAARPRRHSCSLQVLAQVLEQQRQAQEHYNAT  
QKGHVPHYLLERRDLWRREAEARKQSQDPAMPFGHTRMPENQRLETCLKLLQSQSLLR  
ELVLLPAGADSLRAQSHRAELDRKLVQVEEAIKIFSRPKVFKMDD

>sp|Q8TC29|ENKUR\_HUMAN Enkurin OS=Homo sapiens GN=ENKUR PE=2 SV=1

MDPTCSSECIYNLIPSDLKEPPQPPRYISIFKATVKDDMQAKTAMKTMGPAKVEVPSPK  
DFLKKHSKEKTLPPKKNFDRNVPKPAVPLKTDHPVMGIQSGKNFINTNAADIIMGVAKK  
PKPIYVDKRTGDKHDLPSGLVPKYINKKDYGVTPYICKRNEEIKKAQEDYDRYIQENL  
KKAAMKRLSDEEREAVLQGLKKNWEEVHKEFQSLSVFIDSIPKKIRKQRLEEEMKQLEHD  
IGIIEKHKIIYIANNA

>sp|Q6UWR7|ENPP6\_HUMAN Ectonucleotide pyrophosphatase/phosphodiesterase family member 6 OS=Homo sapiens GN=ENPP6 PE=1 SV=2

MAVKLGTLLLALALGLAQPASARRKLLVFLLDGFRSDYISDEALESPLGFKEIVSRGVKV  
DYLTDPFSPLSYPNYTLMTGHRCEVHQMIGNYMWDPNTNKSFDIGVNKDSLMLPLWWNGS  
EPLWVTLTKAKRKVYMYWPGCEVEILGVRPTYCLEYKNVPTDINFANAVSDALDSFKSG  
RADLAAIYHERIDVEGHYGPASPQRKDALKAVDVLKYMTKWIQERGLQDRLNVIIFSD  
HGMTDIFWMDKVIENLKYISLNDLQQVKDRGPVVSLLWPAPGKHSEIYNKLSTVEHMTVYE  
KEAIPSRFYKKGKFSPLTLVADEGWFITENREMLPFWMNSTGRREGWQRGWHGYDNEL  
MDMRGIFLAFGPDFKSNFRAAPIRSVDVYNVMCNVVGITPLPNNGSWSRVCMCLKGRAST  
APPVWPSHCALALILLFLA

>sp|P98073|ENTK\_HUMAN Enteropeptidase OS=Homo sapiens GN=TMPRSS15 PE=1 SV=3

MGSKRGISSRHSLSSYEIMFAALFAILVVLCAGLIAVSCLTIKESQRGAALGQSHEARA  
TFKITSGVTYNPNLQDKLSVDFKVLAFDLQQMIDEIFLSSNLKNEYKNSRVLQFENGSI  
VVFDLFFAQWVSDENVKEELIQGLEANKSSQLVTFHIDLNSVDILDKLTTTSHLATPGNV  
SIECLPGSSPCTDALTCIKADLFCDGEVNCPDGSDENKMCATVCDGRFLLTGSSGSFQA  
THYPKPSETSVVCQWIIIRVNQGLSIKLSFDDFNTYYTDILDYIEGVGSSKILRASIWETN  
PGTIRIFSNQVTATFLIESDESDYVGFNATYTAFNSSSELNNYEKINCNFEDGFCFWVQDL

NDDNEWERIQQSTFSPFTGPNFDHTFGNASGFYISTPTGPGGRQERVGLLSLPLDPTLEP  
ACLSFWYHMYGENVHKLSINISNDQNMEKTVFQKEGNYGDNWNYGQVTLNETVKFKVAFN  
AFKNKILSDIALDDISLTYGICNGSLYPEPTLVPTPPPELPTDCGGPFELWEPNTTFSST  
NFPNSYPNLAFCVWILNAQKGKNIQLHFQEFDENINDVVEIRDGEEADSLLLAVYTGP  
PVKDVSTTNRMTVLLITNDVLARGGFKANFTTGYHLGIPEPCKADHFQCKNGECVPLVN  
LCDGHLHCEDGSDEADCVRFFNGTTNNGLVRFRIQSIWHTACAENWTTQISNDVCQLLG  
LGSGNSSKPIFPTDGGPFVKLNTAPDGHLILTPSQCLQDSLIRLQCNHKSCGKKLAAQD  
ITPKIVGGSNAKEGAWPVVGLYYGGRLLCGASLVSSDWLVSAAHCVYGRNLEPSKWTAI  
LGLHMKSNLTSPQTVPRLIDEIVINPHYNRRRKNDIAMMHLEFKVNYTDYIQPICLPEE  
NQVFPPGRNCSIAGWGTVVYQGTANILQEADVPLLSNERCQQMPEYNITENMICAGYE  
EGGIDSCQGDGGPLMCQENNRWFLAGVTSFGYKCALPNRPGVYARVSRFTEWISFLH

>sp|Q5MY95|ENTP8\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 8 OS=Homo sapiens  
GN=ENTPD8 PE=1 SV=2

MGLSRKEQVFLALLGASGVSGLTALILLVEATSVLLPTDIKFGIVFDAGSSHTSLFLYQ  
WLANKENGTVVVSQALACQVEGPGISSYTSNAAQAGESLQGCLEEALVLIPEAQHRKTPT  
FLGATAGMRLLSRKNSSQARDIFAAVTQVLGRSPVDFWGAELLAGQAEGAFGWITVNYGL  
GTLVKYSFTGEWIQPEEMLVGALDMGGASTQITFVPGGPILDKSTQADFRLYGS DYSVY  
THSYLCFGRDQMLSRLVLGLVQSRPAALLRHPCYLSGYQTTLALGPLYESPCVHATPPLS  
LPQNLTVEGTGNPGACVSAIRELFNFSSCQGQEDCAFDGVYQPPLRGQFYAFSNFYTFH  
FLNLTSRQPLSTVNATIWEFCQRPWKLEASYPGQDRWL RDYCASGLYILTLLHEGYGFS  
EETWPSLEFRKQAGGVDIGWTLGYMLNL TGMIPADAPAQWRAESYGVVAVKVVFMVLALV  
AVVGAALVQLFWLQD

>sp|P18074|ERCC2\_HUMAN TFIIH basal transcription factor complex helicase XPD subunit  
OS=Homo sapiens GN=ERCC2 PE=1 SV=1

MKLNVDGLLVYFPYDYIYPEQFSYMRELKRTLDAKGHGVLEMPSGTGKTVSLLALIMAYQ  
RAYPLEVTKLIYCSRTVPEIEKVIEELRKLLNFYEKQEGEKLPFLGLALSSRKNL CIHPE  
VTPLRFKGDVDGKCHSLTASYVRAQYQHDTSLPHCRFYEEFDAHGREVPLPAGIYNLDDL  
KALGRRQGWCOPYFLARYSILHANVVVYSYHYLLDPKIADLVSKELARKAVVVFDEAHNID  
NVCIDMSVNLTRRTLDRCQGNLETLQKTVLRKETDEQRLRDEYRRLVEGLREASAARE  
TDAHLANPVLDPDEVLQEAVPGSIRTAEHFLGFLRRLLEYVKWRLRVQHVVQESPPAFLSG  
LAQRVCIQRKPLRFAERLRSLLHTLEITDLADFSPLTLLANFATLVSTYAKGFTIIIEP  
FDDRTPTIANPILHFSCMDASLAIKPVFERFQSVIITSGTSLPLDIYPKILDFHPVTMAT  
FTMTLARVCLCPMIIGRGNDQVAISSKFETREDIAVIRNYGNLLEMSAVVPDGIVAFFT  
SYQYMESTVASWYEQGILENIQRNKLLFIETQDGAETSVALEKYQEACENGRGAILLSVA  
RGKVSEGIDFVHHYGRAVIMFGVPYVYTQSRILKARLEYLRDQFQIRENDFLTFDAMRHA  
AQCVGRAIRGKTDYGLMVFADKRFARGDKRGKLPRWIQEHLTDANLNLTVDEGVQVAKYF  
LRQMAQPFHREDQLGLSLLSLEQLESEETLKRIEQIAQQL

>sp|P33947|ERD22\_HUMAN ER lumen protein-retaining receptor 2 OS=Homo sapiens GN=KDEL2  
PE=1 SV=1

MNIFRLTGDLSHLAAIVILLKKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYN  
TSMKVIYLACSYATVYLIYLFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLILW  
TFSIYLESVAAILPQLFMISKTGEAETITTHYLFGLYRALYLVNWIWRFYFEGFFDLIA  
VVAGVVQTILYCDFFLYITKVLKGKLSLPA

>sp|O43414|ERI3\_HUMAN ERI1 exoribonuclease 3 OS=Homo sapiens GN=ERI3 PE=1 SV=2

MATASPAADGGRGRPWEGGLVSWPPAPPLTLPWTWMGPSWGQHPGHWGFPALTEPSASPA  
AGLGIFEVRRVLDASGCSMLAPLQTGAARFSSYLLSRARKVLGSHLFSPCGVPEFCSIST  
RKLAAHGFGASMAAMVSFPQRYHYFLVLDFEATCDKQIHPQEIIIEFPILKLNGRIMEI  
ESTFHMVYQPVVHPQLTPFCTELTGIIQAMVDGQPSLQQVLERVDEWMAKEGLDLPNVKS  
IFVTCGDWDLKVMLPGQCQYLGLPVADYFKQWINLKKAYSFAMGCWPKNGLLDMNKGLSL  
QHIGRPHSGIDDCKNIANIMKTLAYRGFIFKQTSKPF

>sp|Q96PL5|ERMAP\_HUMAN Erythroid membrane-associated protein OS=Homo sapiens GN=ERMAP  
PE=1 SV=1

MEMASSAGSWLSGCLIPLVFLRLSVHVS GHAGDAGKFHVALLGGTAELLCPLSLWPGTVP  
KEVRWLRSPFPQRSQAVHIFRDGKDQDEDLMPYKGRTVLVRDAQEGSVTLQILDVRLED  
QGSYRCLIQVGNLSKEDTVILQVAAPSVGSLSPSAVALAVILPVLVLLIMVCLCLIWKQR  
RAKEKLLYEHVTEVDNLLSDHAKEKGKHLKAVKKLRSELKLRKAAANSWRRARLHFVAV  
TLDPDTAHPKLILSEDQRCVRLGDRRQVPDPNPQRFDVVSILGSEYFTTGCHYWEVYVG  
DKTKWILGVCSESVSRKGKVTASPANGHWLLRQSRGNEYEALTSPQTSFRLKEPPRCVGI  
FLDYEAGVISFYNTNKSHIFTFTHNFSGPLRPFEPCLHDGGKNTAPLVICSELHKSEE  
SIVPRPEGKGHANGDVSLKVNSSLPPKAPELKDIILSLPPDLGPALQELKAPSF

>sp|Q86YB8|ERO1B\_HUMAN ERO1-like protein beta OS=Homo sapiens GN=ERO1B PE=1 SV=2

MSQGVRRAGAGQGVAQVLLVTLVSFLRSVVEAQVTGVLDDCLCDIDSIDNFNTYKIFPK  
IKKLQERDYFRYYKVNLRPCPFWAEDGHCSIKDCHVEPCPESKIPVGIKAGHSNKYLM  
ANNTKELEDCEQANKLGAINSTLSNQSKEAFIDWARYDDSRDHFCELDDESPAAQYVDL  
LLNPERYTGKGTSAWRVWNSIYEENCFKPRSVYRPLNPLAPSRGEDDGESFYTWLEGLC  
LEKRVFYKLISGLHASINLHLCANYLLEETWGKPSWGPNIKEFKHRFDPVETKGEPRRL  
KNLYFLYLIELRALSKVAPYFERSIVDLYTGNAEEDADTKTLLNIFQDTKSFPMHFDEK  
SMFAGDKKGAKSLKEEFRLHFKNISRIMDCVCGDKCRLWGKLQTQGLGTALKILFSEKEI  
QKLPEPSPSKGFQLTRQEIVALLNAFGRLSTSIRDLQNFVLLQHSR

>sp|P30040|ERP29\_HUMAN Endoplasmic reticulum resident protein 29 OS=Homo sapiens GN=ERP29  
PE=1 SV=4

MAAVPRAAFLSPLLPLLLGFLLLSAPHGGSLHTKGALPLDVTFTYKVIPKSKFVLVKF  
DTQYPYGEKQDEFKRLAENSASSDDLVAEVGISDYGDKNMELSEKYKLDKESYPVFYL  
FRDGDFFENPVPTGAVKVGAIQRWLKGQGVYLGMPGCLPVDALAGEFIRASGVEARQAL  
LKQGQDNLSVKETQKKWAEQYLKIMGKILDQGEDFPASEMTRIARLIEKNKMSDGKKEE  
LQKSLNILTAFQKKGAKEEL

>sp|P30042|ES1\_HUMAN ES1 protein homolog, mitochondrial OS=Homo sapiens GN=C21orf33 PE=1  
SV=3

MAAVRVLVASRLAASAFTSLSPGGRTPSQRAALHLSVPRPAARVALVLSGCGVYDGTEI  
HEASAILVHLSRGGAEVQIFAPDVPQMHVIDHTKGQPSGESRNVLTESARIARGKITDL  
ANLSAANHDAIFPGGFGAAKNLSTFAVDGKDCKVNKEVERVLKEFHQAGKPIGLCCIAP  
VLAAKVLRGVEVTVGHEQEEGGWPYAGTAEAIKALGAKHCVKEVVEAHVDQKNKVVTTP  
AFMCETALHYIHDGIGAMVRKVLELTGK

>sp|Q5FWF5|ESCO1\_HUMAN N-acetyltransferase ESCO1 OS=Homo sapiens GN=ESCO1 PE=1 SV=3

MMSIQEKSKESSKVTKSDDKNSETEIQDSQKNLAKKSGPKETIKSQAKSSSESINQP  
ELETRMSTRSSKAASNDKATKSINKNTVTVRGYSQESTKKLSQKKLVHENPKANEQLNR  
RSQRLQQLTEVSRRLSRSEIQGGVQAVKQSLPPTKKEQCSSTQSKSNKTSQKHVKKRVL  
EVKSDSKEDENLVINEVINSPKGKKRKVEHQTACACSSQCTQGSEKCPQKTTRRDETKPV

PVTSEVKRSMATSVVPKKNEMKKS SVHTQVNTNTTLPKSPQPSVPEQSDNELEQAGKSKR  
GSILQLCEEIAGEIESDNVEVKKESSQMESVKEEKPT EIKLEETSVERQILHQKETNQDV  
QCNRRFFPSRKTKPVKCILNGINSSAKKNSNWTIKLSKFNSVQHNLDSQVSPKLGLLRT  
SFSPPALEMHHPVTQSTFLGTLKHDRNITCQQEKMK E INSEEVKINDITVEINKTTERAP  
ENCHLANEIKPSDPPLDNQMKHSFDSASNK NFSQCLESKLENSPVENVTAASTLLSQAKI  
DTGENKFPGSAPQQHSILSNQTSKSSDNRETPRNHSLPKCNHLEITIPKDLKLKEAEKT  
DEKQLIIDAGQKRFGAVSCNVCGLY TASNPEDETQHLLFHNQFISAVKYVGWKKERILA  
EYPDGRIIMVLPEDPKYALKKVDEIREMVDNDLGFQQAPLMCYSRTKTLLFISNDKKVVG  
CLIAEHQWG YR VIEEKLPIRSEEEKVRFERQKAWCCSTLPEPAICGISRIWVFSMMRR  
KKIASRMIECLRSNFIYGSYLSKEEIAFS DPTPDGKLFATQYCGTGQFLVYNFINGQNST  
>sp|Q9H501|ESF1\_HUMAN ESF1 homolog OS=Homo sapiens GN=ESF1 PE=1 SV=1  
MSSKQEIMSDQRRFRAKDRPFWEPEKDRKVKIDKRFRAMFHDKKFKLNYAVDKRGRPI  
SHSTTEDLKR FYDLS DSDSNLSGEDSKALSQKKIKKKKTQTKKEIDSKNLVEKKKETKKA  
NHKGSENKTDLDNSIGIKMKTSCKFKIDSNISPKKDSKEFTQKNKKEKKNIVQHTTDS  
LEEKQRTLD SGTSEIVKSPRIECSKTRREM QS VVQLIMTRDS DGYENSTDGEMCDKDALE  
EDSES VSEIGSDEESENEITSVGRASGDDDGSEDEDEDEDEDEDEDEDEDDDKSDSGP  
DLARGKNIETSS EDDDTADLFPEESGFEHAWRELDKDA PRADEITRRLAVCNMDWDRL  
KAKDLLALFNSFKPKGGVIFSVKIYPSEFGKERMKEEQVQGPVELLSIPEDAPEKDWT SR  
EKLRDYQFKRLKYYYAVVDCSPETASKIYEDCDGLEFESSCSFIDLRFIPDDITFDDEP  
KDVASEVNL TAYKPKYFTSAAMGTSTVEITWDET DHERITMLNRKFKEELLDMDFQAYL  
ASSSEDEEEIEEELQGDDGVNVEEDGKTKKSQKDDEEQIAKYRQLLQV IQEKEKKGKEND  
MEMEIKWVPGLKESAEEMVKNKLEGDKLTPWEQFLEKKKEKKRLKRKQKALAE EASEEE  
LPSDVDLNDPYFAEEVKQIGINKKSVKSAKDGTSP EEEIEIERQKAEMALLMMEDEDESK  
KHFNYNKIVEHQNL SKKKKKQLMKKKELIEDDFEVNVNDARFQAMYTSHLFNLDPSPNF  
KKT KAMEKILEEKARQRRERKEQELTQA IKKKKESEIEKESQRKSIDPALSM LKSIKTKTE  
QFQARKKQKVK

>sp|P55884|EIF3B\_HUMAN Eukaryotic translation initiation factor 3 subunit B OS=Homo sapiens GN=EIF3B PE=1 SV=3

MQDAENVAVPEAAEERAEPGQQQPAAEPPPAEGLLRPAGPGAPEAAAGTEASSEEVGIAEA  
GPESEVRTEPAAEAEAAAGPSESPPPAAEELPGSHAEPVPVPAQGEAPGEQARDERSDSR  
AQAVSE DAGGNEGRAAEAEPRALENGDADEPSFSDPEDFVDDVSEEELGDLKDRPQEA  
DGIDSVIVVDNVPQVGPDRLEKKNV IHKIFSKFGKITNDFYPEEDGKTKGYIFLEYASP  
AHAVD AVKNADGYKLDKQHTFRVNLFTDFDKYMTISDEWDIPEKQPFKDLGNLRYWLEEA  
ECRDQYSVIFESGDRTSIFWNDVKDPVSI EERARWTETYVRWSPKGYLATFHQRGIALW  
GGKEFKQIQRF SHQGVQLIDFSPCERYLVTFSP LMDTQDDPQAI I IWDILTGHKKRGFHC  
ESSAHWP I FKWSHDGKFFARMTLDTLSIYETPSMGLLDK KSLKISG IKDFSWSPPGNI I A  
FWVPEDKDIPARVTLMQLPTRQEIRVRNLFNVVDCKLHWQKNGDYLCVKVDRTPKGTQGV  
VTNFEIFRMREKQVPVDVEMKETIIAFAWEPNGSKFAVLHGEAPRISVSFYHVKNNGKI  
ELIKMFDKQQANTIFWSPQGQFVVLAGLRSMNGALAFVDTSDCTVMNIAEHYMASDVEWD  
PTGRYVVT SVSWSHKVDNAYWLWTFQGRLLQKNNKDRFCQLLWRPRPPTLLSQEQIKQI  
KKDLKKYSKIFEQKDRLSQSKASKELVERRRTMME DFRKYRKMAQEL YMEQKNERLELRG  
GVDTDELDSNVDDWEEETIEFFVTEEIIPLGNQE

>sp|Q9UBQ5|EIF3K\_HUMAN Eukaryotic translation initiation factor 3 subunit K OS=Homo sapiens GN=EIF3K PE=1 SV=1

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAF  
FQTTVTAQILLKALTNLPHDTFTLCKCMIDQAHQEERPIRQILYLGDLLETCHFQAFWQA  
LDENMDLLEGITGFEDSVRKFIHVVGITYQHIDRWLLAEMLGDLSDSQLKVWMSKYGWS  
ADESGQIFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

>sp|P14625|ENPL\_HUMAN Endoplasmin OS=Homo sapiens GN=HSP90B1 PE=1 SV=1

MRALWVLGLCCVLLTFGSVRADDEVVDVGTVEEDLGKSREGSRTDDEVVQREEEAIQLDG  
LNASQIRELREKSEKFAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISL  
TDENALSGNEELTVKIKCDKEKNLLHVTDTGVGMTREELVKNLGTIAKSGTSEFLNKMTE  
AQEDGQSTSELIGQFVGFGYSAFLVADKVIIVTSKHNDTQHIWESDSNEFSVIADPRGNT  
LGRGTTITLVLKEEASDYLELDTIKNLVKKYSQFINFPIYVWSSKTETVEEPMEEEEAAK  
EEKEESDDEAAVEEEEEEEKPKTKKVEKTVWDWELMNDIKPIWQRPSKEVEEDEYKAFYK  
SFSKESDDPMAYIHFTAEGEVTFKSILFVPTSAPRGLFDEYGSKKSDYIKLYVRRVFITD  
DFHDMMPKYLNFVKGVDSDDLPLNVSRETLLQHKLLKVIKRLVRKTLDMIKKIADDKY  
NDTFWKEFGTNIKLGVIEDHSNRTRLAKLLRFQSSHPTDITSLDQYVERMKEKQDKIYF  
MAGSSRKEAESSPFVERLLKKGYEVIYLTPEVDEYCIQALPEFDGKRFQNVAKEGVKFDE  
SEKTKESREAVEKEFEPLLNWMKDKALKDKIEKAVVSQRLTESPCALVASQYGWSGNMER  
IMKAQAYQTGKDISTNYYASQKKTFEINPRHPLIRDMLRRIKEDEDDKTVLDLAVLFFET  
ATLRSGYLLPDTKAYGDRIERMLRLSLNIDPAKVEEPEEEPEETAEDTTEDTEQDEDE  
EMDVGTDDEEETAKESTA EKDEL

>sp|P22413|ENPP1\_HUMAN Ectonucleotide pyrophosphatase/phosphodiesterase family member 1  
OS=Homo sapiens GN=ENPP1 PE=1 SV=2

MERDGCAGGSRGEGGRAPREGPAGNGRDRGRSHAAEAPGDPQAAASLLAPMDVGEEPL  
EKAARARTAKDPNTYKVLVSLVSVCLVLTITLGCIFGLKPSCAKEVKSCKGRCFERTFGNC  
RCDAACVELGNCCLDYQETCIEPEHIWTCNKFRCGEKRLTRSLCACSDDCDKGDCCINY  
SSVCQGEKSWVEEPCESINEPQCPAGFETPPTLLFSLDGFRAEYLHTWGGLLPVISKLKK  
CGTYTKNMRPVYPTKTFPNHYSIVTGLYPESHGIIIDNKMYDPKMNASFSLKSKEKFNPEW  
YKGEPIWVTAKYQGLKSGTFFWPGSDVEINGIFPDIYKMYNGSVPFEERILAVLQWLQLP  
KDERPHFYTYLLEEDSSGHSYGPVSSEVIKALQRVDGMVGMLMDGLKELNLHRCLNLIL  
ISDHGMEQGSCKKYIYLNKYLGDVKNIKVIYGPAARLRPSDVPDKYYSFNYEGIARNLSC  
REPNNQHFKPYLKHFLPKRLHFAKSDRIEPLTFYLDPQWQLALNPSEKCYGSGFHGSDNV  
FSNMQALFVGYGPGFKHGIEADTFENIEVYNLMCDLLNLTAPNNGTHGSLNHLKPNVY  
TPKHPKEVHPLVQCPTFRNPRDNLGCSCNPSILPIEDFQTQFNLTVAAEKIIKHETLPYG  
RPRVLQKENTICLLSQHQFMSGYSQDILMPLWTSYTVDRNDSFSTEDFSNCLYQDFRIPL  
SPVHKCSFYKNNTKVSYGFLSPPQLNKNSSGIYSEALLTNIVPMYQSFQVIWRYFHDTL  
LRKYAEERNGVNVVSGPVFDFDYDGRCDLENLRQKRRVIRNQEILIPTHFFIVLTSCKD  
TSQTPLHCENLDTLAFILPHRTDNSESCVHGKHDSSWVEELMLHRARITDVEHITGLSF  
YQQRKEPVSDILKLKTHLPTFSQED

>sp|O14638|ENPP3\_HUMAN Ectonucleotide pyrophosphatase/phosphodiesterase family member 3  
OS=Homo sapiens GN=ENPP3 PE=1 SV=2

MESTLTLATEQPVKNTLKKYKIACIVLLALLVIMSLGLGLGLRKLEKQGSCRKKCFD  
ASFRGLENCRCDVACKDRGDCCWDFEDTCVESTRIWMCNKFRCGETRLEASLCSCSDDC  
QRKDCCADYKSVCQGETSWLEENDTAQQSQCEGFDLPPVILFSMDGFRAEYLYTWDTL  
MPNINKLKTGCIHISKYMRAMYPTKTFPNHYTIVTGLYPESHGIIIDNNMYDVNLKNFSL  
SKEQNNPAWWHGQPMWLTAMYQGLKAATYFWPGSEVAINGSFPSIYMPYNGSVPFEERIS

TLLKWLDPKAERPRFYTMYPEEPDSSGHAGGPVSARVIKALQVVDHAFGMLMEGLKQRN  
LHNCVNIILLADHGMDQTYCNKMEYMTDYFPRINFFYMYEGPAPRIRAHNIPHDFFSFNS  
EEIVRNLSCRKPDQHFKPYLTPDLPKRLHYAKNVRIDKVHLFVDQQWLAVRSKSNNTNCGG  
GNHGYNNEFRSMEAIFLAHGSPFKEKTEVEPFENIEVYNLMCDLLRIQPAPNNGTHGSLN  
HLLKVPFYEP SHAEEVSKFSVCGFANPLPTESLDCFCPHLQNSTQLEQVNQMLNLTQEEI  
TATVKVNLFPGRPRVLQKNVDHCLLYHREYVSGFGKAMRMPMWSSYTPQLGDTSPLPPT  
VPDCLRADVRVPPSESQKCSFYLADKNITHGFLYPASNRTSDSQYDALITSNLVPMYEE  
FRKMWDYFHSVLLIKHATERNGVNVVSGPIFDYNYDGHFDAPDEITKHLANTDVP IPTHY  
FVVLTSCKNKSHTPENCPGWL DVL PFIIPHRPTNVESCPEGKPEALWVEERFTHAIARVR  
DVELLTGLDFYQDKVQPVSEILQLKTYLPTFETTI

>sp|Q9Y6X5|ENPP4\_HUMAN Bis(5'-adenosyl)-triphosphatase ENPP4 OS=Homo sapiens GN=ENPP4  
PE=1 SV=3

MKLLVILLFSGLITGFRSDSSSLPPKLLLVSFDGFRADYLKNYEFPHLQNF IKEGVLVE  
HVKNVFITKTFPNHYSIVTGLYEESHGIVANSMYDAVTKKHFSDSNDKDPFWWNEAVPIW  
VTNQLQENRSSAAAMWPGTDVPIHDTISSYFMYNSSVSFEERLNNITMWLNNSNPPVTF  
ATLYWEEP DASGHKYPEDKENMSRVLKKIDDLIGDLVQRLKMLGLWENLNVIITSDHGM  
TQCSQDRLINL DSCIDHSYYTLIDLSPVAAILPKINRTEVYNKLKNCSPHMNVYLKEDIP  
NRFYYQHNDRIQPIILVADEGWTIVLNESSQKLGDHGYDNSLPSMHPFLAAHGPAFHKGY  
KHSTINIVDIYPMCHILGLKPHPNNGTFGHTKCLLDQWCINLPEAIAIVIGSLLVLT  
MTCLIIIMQNRLSVPRPFSRLQLQEDDDPLIG

>sp|Q14264|ENR1\_HUMAN Endogenous retrovirus group 3 member 1 Env polyprotein OS=Homo  
sapiens GN=ERV3-1 PE=2 SV=2

MLGMNMLLITLFLLLPLSMLKGEPWEGCLHCTHTTWSGNIMTKTLLYHTYYECAGTCLGT  
CTHNQTTYSVCDPGRGQPYVCYDPKSSPGTWFEIHVGSKEGDLLNQTKVFPSPGKDVS  
SLYFDVCQIVSMGSLFPVIFSSMEYSSCHKNRYAHPACSTDSPVTTWCDC TTWSTNQQSLGP  
IMLT KIPLEPDCKTSTCNSVNL TILEPDQPIWTTGLKAPLGARVSGEEIGPGAYVYLYII  
KKTRTRSTQQFRVFESFYEHVNQKLPEPPPLASNLFQAENIASSLHVASCYVCGGMNM  
GDQWPWEARELMPQDNFTLTASSLEPAPSSQSIWFLKTSIIGKFCIARWGKAFTDPVGEL  
TCLGQQYYNETLGLTLWRGKSNNSESPHSPFSRFP SLNHSWYQLEAPNTWQAPSGLYWI  
CGPQAYRQLPAKWSGACVLGTIRPSFFLMPLKQGEALGYPIYDETKRKS KRGITIGDWKD  
NEWPPERIIQYYGPATWAEDGMWG YRTPVYMLNRIIRLQAVLEIITNETAGALNLLAQQ  
ATKMRNVIYQNLALDYLLAQEEGVC GKFNL TNCCELDDEGKVIKEITAKIQKLAHIPVQ  
TWKG

>sp|O43768|ENSA\_HUMAN Alpha-endosulfine OS=Homo sapiens GN=ENSA PE=1 SV=1

MSQKQEEENPAEETGEEKQDTQEKEGILPERAEEAKLKAKYPSLGQKPGGSDFLMKRLQK  
GQKYFDSGDYNMAKAMKNKQLPSAGPDKNLVTGDHIPTPQDL PQRKSSLVTSKLAGGQV  
E

>sp|P49961|ENTP1\_HUMAN Ectonucleoside triphosphate diphosphohydrolase 1 OS=Homo sapiens  
GN=ENTPD1 PE=1 SV=1

MEDTKESNVKTFCSKNILAILGFSSIIAVIALLAVGLTQNKALPENVKYGIVLDAGSSHT  
SLYIYKWPAEKENDTG VVHQVEECRVKGP GISKFVQKVNEIGIYLTDCMERAREV IPRSQ  
HQETPVYLGATAGMRLLRMESEELADRVLDVVERSLSNYPDFDQGARIITGQEEGAYGWI  
TINYLLGKFSQKTRWFSIVPYETNNQETFGALDLGGASTQVTFVPQNQTIESPDNALQFR  
LYGKDYNVYTHSFLCYGKDQALWQKLAKDIQVASNEILRDP CFHPGYKKVVNVSDLYKTP

CTKRFEMTLFPQQFEIQGIGNYQQCHQSILELFNTSYCPYSQCAFNGIFLPPLQGDFGAF  
SAFYFVMKFLNLTSEKVSQEKVTEMMKKFCAQPWEEIKTSYAGVKEKYLSEYCFSGTYIL  
SLLLQGYHFTADSWEHIFIGIKIQGSDAGWTLGYMLNLTNMIPAEQPLSTPLSHSTYVFL  
MVLFSVLVFTVAIIIGLLIFHKPSYFWKDMV

>sp|095936|EOMES\_HUMAN Eomesodermin homolog OS=Homo sapiens GN=EOMES PE=1 SV=3

MLLGEQLLVSSVNLPGAHFYPLESARGSGGSAGHLPSAAPSPQKLDLDKASKKFSGLS  
CEAVSGEPAAASAGAPAAMLSDTDAGDAFASAAAVAKPGPPDGRKGSPCGEEELPSAAAA  
AAAAAAAAATARYSMDLSSEYYLQSPGPQGSELAAPCSLFPYQAAAAGAPHGPVYPAP  
NGARYPYGSMLPPGGFPAAVCPPGRAQFGPGAGAGSGAGGSSGGGGPGTYQYSQGAPLY  
GPYPGAAAAGSCGGLGGLGVPGSGFRAHVYLCNRPLWLKFHRHQTEMIITKQGRMFPPFL  
SFNINGLNPTAHYNVFEVVLADPNHWRFFQGGKVVTCGKADNMQGNKMYVHPESPNTGS  
HWMRQEISFGKLLTNNKGANNNTQMIVLQSLHKYQPRLHIVEVTEDEGVEDLNEPSKTQ  
TFTFSETQFIAVTAYQNTDITQLKIDHNPFAKGFDRDNDSSHQIVPGGRYGVQSFPEPF  
VNTLPQARYYNGERTVPQTNGLLSPQQSEEVANPPQRWLVTVPVQPGTNKLDISSYESEY  
TSSTLLPYGIKSLPLQTSHALGYPDPTFPAMAGWGGRGSYQRKMAAGLPWTSRTSPTVF  
SEDQLSKEKVKEEIGSSWIETPPSIKSLDSNDSGVYTSACKRRRLSPSNSSNENSPSIKC  
EDINAEYSKDTSGMGGYAFYTP

>sp|P01588|EPO\_HUMAN Erythropoietin OS=Homo sapiens GN=EPO PE=1 SV=1

MGVHECPAWLWLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAENITTGCAEHC  
SLNENITVPDTKVNIFYAWKRMEVQQAVEVWQGLALLSEAVLRGQALLVNSSQPWEPLQL  
HVDKAVSGLRSLTTLRALGAQKEAISPPDAASAAPLRTITADTFRKLFRVYSNFLRGKL  
KLYTGEACRTGDR

>sp|Q03468|ERCC6\_HUMAN DNA excision repair protein ERCC-6 OS=Homo sapiens GN=ERCC6 PE=1  
SV=1

MPNEGIPHSSQTQEQDCLQSQPVSNEEMAIKQESGGDGEVEEYLSFRSVGDGLSTSAVG  
CASAAPRRGPALLHIDRHQIQAVEPSAQALELQGLGVDVYDQDVLEQGVLLQQVDNAIHEA  
SRASQLVDVEKEYRSVLDDLTCTTSLRQINKIIIEQLSPQAATSRDINRKLDVSRQKYN  
KEQQLKKITAKQKHLQAILGGAEVKIELDHASLEEDAEPGPSSLGSMMPVQETAWEELI  
RTGQMTFPGTQIPQKQEKKPRKIMLNEASGFKEYLADQAKLSFERKKQGCNKRAARKAPA  
PVTPPAPVQKNKPNKKARVLSKKEERLKKHIKKLQKRALQFQGVGLPKARRPWESDMR  
PEAEGDSEGESEYFPTEEEEEEEDVEGEAEADLSGDGTDYELKPLPKGGRQKKVPVQ  
EIDDDFFPSSGEEAEASVGEAGGGGRKVGGRYRDDGDEDYKQRLRRWNKRLRLQDEKRL  
KLEDDSEESDAEFDEGFKVPGFLFKKLFKYQQTGVRWLWELHCQAGGILGDEMGLGTI  
QIIAFLAGLSYSKIRTRGSNYRFEGLGPTVIVCPTTVMHGWVKEFHTWWPPFRVAILHET  
GSYTHKKEKLIRDVAHCHGILITSYSYIRLMQDDISRYDWHYVILDEGHKIRNPNAAVTL  
ACKQFRTPHRIILSGSPMQNNLRELWSLFDIFPGKLGTLPVFMEQFSVPITMGYSNAS  
PVQVKTAYKCAVLRDITNYPYLLRRMKSDVKMSLSLPDKNEQVLCRLTDEQHKVYQNFV  
DSKEVYRILNGEMQIFSGLIALRKICNHPDLFSGGPKNLKGLPDDELEEDQFGYWKRSKG  
MIVVESLLKIWHKQGGQVLLFSQSRQMLDILEVFLRAQKYTYLKMGTTTIASRQPLITR  
YNEDTSIFVFLLTTRVGGLGVNLTGANRVVIYDPDWNPTDQTARERAWRIGQKKQVTYV  
RLLTAGTIEEKIYHRQIFKQFLTNRVLKDPAKQRRFFKSNDLYELFTLTSPDASQSTETSA  
IFAGTGSVDVQTPKCHLKRRIQPAFGADHDVPRKKFPASNISVNDATSSSEKSEAKGAEV  
NAVTSNRSDPLKDDPHMSSNVTSDNRLGEETNAVSGPEELSVISGNGECSNSSGTGKTSM  
PSGDESIDEKLGSLYKRERPSQAQTEAFWENKQMENNFYKHKSCTKHHSVAEEETLEKHL

RPKQKPKNSKHCRDAKFEGTRIPHLVKKRRYQKQDSENKSEAKEQSNDDYVLEKLFKKS  
GVHSMKHDAIMDGASPDYVLVEAEANRVAQDALKALRLSRQCLGAVSGVPTWTGHRGI  
SGAPAGKKSFRFGKKRNSNFSVQHPSSSTPTEKCQDGMKKEGKDNVPEHFSGRAEDADSS  
SGPLASSSLLAKMRARNHLILPERLESESGHLQEASALLPTTEHDDLLEMRNFIAFQAH  
TDGQASTREILQEFESKLSASQSCVFRELLRNLCFHRRTSGGEGIWKLKPEYC

>sp|P15170|ERF3A\_HUMAN Eukaryotic peptide chain release factor GTP-binding subunit ERF3A  
OS=Homo sapiens GN=GSPT1 PE=1 SV=1

MELSEPIVENGETEMSPESWEHKEEISEAEPGGGSLGDRPPEESAHEMMEEEEEIPKP  
KSVVAPPGAPKKEHVNVVFIGHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRET  
WYLSWALDTNQEERDKGKTVEVGRAYFETEKKHFTILDAPGHKSFVPMIGGASQADLAV  
LVISARKGEFETGFKEGGQTREHAMLAKTAGVKHLIVLINKMDDPTVNWSNERYEECKEK  
LVPFLKKVGFNPKKDIHFMPCSGLTGANLKEQSDFCPWYIGLPFIPYLDNLPNFRSVDG  
PIRLPIVDKYKDMGTVVLGKLESGSICKGQQLVMPNKHNEVLGILSDDVETDTVAPGE  
NLKIRLKGIEEEEILPGFILCDPNNLCHSGRTFDAQIVIIIEHKSIIICPGYNAVLHIHTCI  
EEVEITALICLVDKKSGEKSRTPRFVKQDQVCARLRTAGTICLETFKDFPQMGRFTLR  
DEGKTIAIGKVLKLVPEKD

>sp|Q9NQ30|ESM1\_HUMAN Endothelial cell-specific molecule1 OS=Homo sapiens GN=ESM1 PE=1  
SV=2

MKSVLLLTLLVPAHLVAAWSNNYAVDCPQHCDSSSECKSSPRCKRTVLDDCGCCRVCAAG  
RGETCYRTVSGMDGMKCGPLRCQPSNGEDPFGEFEGICKDCPYGTFGMDCRETNCQSG  
ICDRGTGKCLKFPFFQYSVTKSSNRFVSLTEHDMASGDGNIVREEVVKENAAGSPVMRKW  
LNPR

>sp|Q92800|EZH1\_HUMAN Histone-lysine N-methyltransferase EZH1 OS=Homo sapiens GN=EZH1  
PE=1 SV=2

MEIPNPPTSKCITYWKRKVKSEYMRLRQLKRLQANMGAKALYVANFAKVQEKTIILNEEW  
KKLRVQPVQSMKPVSGHPFLKKTIESIFPGFASQHMLMRSLNTVALVPIMYSWSPLQQN  
FMVEDETVLCNIPYMGDEVKEEDETFIGEELINNYDGKVHGEEEMIPGSVLISDAVFLELV  
DALNQYSDDEEEGHNDTSDGKQDDSKEDLPVTRKRKRHAIEGNKSSKKQFPNDMIFSAI  
ASMPENGVPDDMKERYRELTEMSDPNALPPQCTPNIDGPNKSVQREQSLHSFHTLFCR  
RCFKYDCFLHPFHATPNVYKRKNKEIKIEPEPCGTDCFLLLLEGAKEYAMLHNPRSKCSGR  
RRRRHHIVSASCSNASASAVAETKEGDSRDTGNDWASSSSEANSRCQTPTKQKASPAPP  
QLCVVEAPSEPVEWTGAESLFRVFHGTFFNNFCSIARLLGKTCKQVFQFAVKESLILK  
LPTDELMNPSQKKKKRHLWAAHCRKIQLKKDSSSTQVYNYQCDHPDRPCDSTCPCIMT  
QNFCEKFCQCNPDCCNRFPGRCCKTQCNTKQCPCYLAVRECDPLCLTCGASEHWDCKV  
VSCKNCSIQRGLKKHLLAPSDVAGWGTFIKESVQKNEFISEYCGELISQDEADRRGKVYD  
KYMSSFLFNLNDFVVDATRKGNKIRFANHSVNPNCYAKVVMVNGDHRIGIFAKRAIQAG  
EELFFDYRYSQADALKYVGIERETDVL

>sp|Q5T8I3|F102B\_HUMAN Protein FAM102B OS=Homo sapiens GN=FAM102B PE=1 SV=2

MMKKKKFKFKVDFEELSSVPFVNGVLFCKMRLLDGGSFTAESSREVVQANCVRWRKKF  
SFMCKMSASAATGILDPCIYRVSVRKELKGGKAYAKLGFADLNLAEFAGSGNTTRCLLE  
GYDTKNTRQDNSILKVLISMQLMSGDPCFKTPPSTSMSIPIAGESESLQEDRKGGETLKV  
HLGIADLSAKSASVPDELGACGHSRTSSYASQQSKVSGYSTCHSRSSSFSELCHRRNTSV  
GSTSTGVESILEPCDEIEQKIAEPNLDTADKEDTASEKLSRCPVKQDSVESQLKRVDDTR  
VDADDIVEKILQSQDFSLDSSAEEGLRLFVGPGGSTTFGSHHLPNRVGS GAYEQVVIKR



>sp|Q4KMX7|F106A\_HUMAN Protein FAM106A OS=Homo sapiens GN=FAM106A PE=2 SV=2

MLPSTMFLVHLPLSTNRLHCLRNTSLESYLCSEFVHLNHPLHISDRVILISLHEAVRFSFA  
FSFPRGTLAIAYCLMSSVSTSSSEAIMSTELLANYCHSSLHVCICISSFPNETGNHDSFPG  
AVVSISDQPTDQCKLAAKELPLRNLECRFFDCMGEDLINLGVIGTER

>sp|Q9BQ89|F110A\_HUMAN Protein FAM110A OS=Homo sapiens GN=FAM110A PE=1 SV=1

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NTRQEPVQPLLKQPLFSPETRRTVLTSPRRALPGCRRPQLDLILSSLIDLCDSPVSP  
AEASRTPGRAEGAGRPPATPPRPPSTSAVRRVDVRPLPASPARPCSPGPAAASSPAR  
PPGLQRKSDLSERFSRAAADLERFFNFCCGLDPEEARGLVAHLARASSDIVSLAGPSAG  
PGSSEGGCSRSSVTVEERARERVPYGVSVVERNARVIKWLYGLRQARESPAPEG

>sp|Q6SJ93|F111B\_HUMAN Protein FAM111B OS=Homo sapiens GN=FAM111B PE=1 SV=1

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NKHETALEMQNPNLNKECCFTFTLNGNSRKLDRSVFTAYGKPSEIYSALSANDYFSE  
IKNQFNKNIIVYEEKTIDGHINLGMPLKCLPSDSHFKITFGQRKSSKEDGHILRQCENPN  
MECILFHVVAIGRTRKKIVKINELHEKGSKLCTIYALKGETIEGALCKDGRFRSDIGEFW  
KLKEGHKKIYGKQSMVDEVSGKVLMDISKKKALQQKDIHKKIKQNESATDEINHQSILQ  
SKKKVHKPKKDGETKDVEHSREQILPPQDLSHYIKDKTRQTIPIRINYFCSLPRKYRQI  
NSQVRRRPHLGRRYAINLDVQKEAINLLKNYQTLNEAIMHQYPNFKEEAQWVRKYFREEQ  
KRMNLSPAKQFNIYKDFGKMTANSVSVATCEQLTYYSKSVGFMQWDNNGTGNATCFVF  
NGGYIFTCRHVHLMVGKNTHPSLWPDIIKCAKVTFTYTEFCPTPDNWFSEIPEWLKVS  
ENLDYAILKLKENGNAFPGLWRQISQPSTGLIYLIGHPEGQIKKIDGCTVIPLNERLK  
KYPNDCQDGLVDLYDTTSNVYCMFTQRSFLSEVWNTHLSYDTCFSDGSSGSPVFNASGK  
LVALHTFGLFYQGFNVHALIEFGYSMDSILCDIKKTNESLYKSLNDEKLETYDEEKGKQ  
ESSLQDHQIEPMEC

>sp|Q9BPY3|F118B\_HUMAN Protein FAM118B OS=Homo sapiens GN=FAM118B PE=1 SV=1

MASTGSQASDIDEIFGFFNDGEPPTKKPRKLLPSLTKTKPRELVLVIGTGISAAPQVP  
ALKSWKGLIQALLDAAIDFDLLEDEESKKFQKCLHEDKNLVHVAHDLIQKLSPTSNNRS  
TFFKDCLYEVFDDLESKMEDSGKQLLQSVLHLMENGALVLTNFDNLELYAADQGKQLE  
SLDLTDEKKVLEWAQEKRLSVLHIHGVYTNPSGIVLHPAGYQNVLRNTEVMREIQKLYE  
NKSFLFLGCGWTVDDTTFQALFLEAVKHKSDLEHFMLVRRGDVDEFKKLRNMLDKGIKV  
ISYDDYADLPEYFKRLTCEISTRGTSAGMVREGQLNGSSAAHSEIRGCST

>sp|Q5T036|F120S\_HUMAN Uncharacterized protein FAM120AOS OS=Homo sapiens GN=FAM120AOS  
PE=2 SV=1

MGKTKDIGDDTVASEFWSGALSQPSSVPTRPTRPNRDSWRRAWAARGLHPRPSILQPGP  
ARLSRARAGGTRCPQRRHGRATFCALGRGIVRRGPGPRPARIPGLTLTWKRMSARRMQW  
AMQTGGRNQTFGGGVPLFWTWLTICCAVWRSPLCRLTHSCSRAFSSAPLKTKKSSMLPPK  
QALASAARNLCRGAGCNQAVAGQLLPSTWSLHAHGLAKEAPILPVKKISRSCSVNNKVS  
KKTTPPTLRSFLSPI

>sp|Q9H5Z6|F124B\_HUMAN Protein FAM124B OS=Homo sapiens GN=FAM124B PE=1 SV=3

MDETQGPLAMTVHLLANSBGHSGLLQRTLDQLLDICPEVRLFQVSEASPVKYCEKSHSK  
RSRFPGMSVLLFLHESPGEDRLFRVLDSLQHSPPWCYPTQDTRGRLCPYFFANQEFYSLD  
SQLPIWGVVRQVHCGSEILRVTLYCSFDNYEDAIRLYEMILQREATLQKSNFCFFVLYASK  
SFALQLSLKQLPPGMSVDPKESVLFQFKVEIGQLVPLLPNCPMISSTRWQTQDYDGNK  
ILLQVQLNPELGVKNGILGAGMLPLGSRLTSVSAKRTSEPRSQRNQGKRSQGHSLLEPEP

SGSPTSDRCAGTSWKSPGRSFQVSSPAMGAHLHLSSHLESGARMKVLNRENSFQKLEAE  
TNVDTGTLTIINSEPRQTYFGGFPRDLQTSQPPFCLPASSLGVATSKNNSVLKERSPLPL  
AGQRDLGTRKTISECLLHLQVQGEEKEDEEEFFI

>sp|Q86XD5|F131B\_HUMAN Protein FAM131B OS=Homo sapiens GN=FAM131B PE=1 SV=3  
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SGISRSMKDHVTKPTAMGQGRVAHMI EWQGWGKTPAVQPQHSHESVRRD TDAYS DLS DGE  
KEARFLAGVMEQFAISEATLMAWSSMDGEDMSVNSTQEPLGCNYS DNYQELMDSQDALAQ  
APMDGWPHSYVSQGM YCLGSSDAWEASDQSLIASPATGSYLGP AFDDSQPSLHEMGPSQP  
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DPEMSTALSRKVS DVTSSGVQSFDEEEGEANN

>sp|Q86VR2|F134C\_HUMAN Protein FAM134C OS=Homo sapiens GN=FAM134C PE=1 SV=1  
MAEAEGVPTTPGPASGSTFRGRRDVSGSWERDQQVEAAQRALVEVLGPYEPLLSRVQAAL  
VWERPARSALWCLGLNAAFWFALTSLRLVFLAFGLMIIVCIDQWKNKIWPEIKVPRPD  
ALDNESWGFVHPRLLSVPELCHHVAEVWVSGTIFIRNVLLFKKQNP GKFCLLSCGILTFL  
AVLGRYVPGLLLSYMLVTVMWPLAVYHRLWDRAYVRLKPALQRLDFSVRGYMMSKQRE  
RQLRRRALHPERAMDNHSDSEEELAAFCPQLDDSTVARELAITDSEHSDAEV SCTDNGTF  
NLSRGQTPLTEGSEDL DGHSDPEESFARDLPDFPSINMDPAGLDDEDDTSIGMPSLMYRS  
PPGAEEPQAPPASRDEAALPELLL GALPVGSNLTSNLASLVSQGM IQLALSGASQPGPSG  
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>sp|Q96BN6|F149B\_HUMAN Protein FAM149B1 OS=Homo sapiens GN=FAM149B1 PE=2 SV=2  
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FTSADTGNLSAFPSYTGAGISTEGSSDFSWGYGELDQNA TEKVQTMFTAIDELLYEQKL  
SVHTKSLQEECQQTASFPHLRILGRQIITPSEGYRLYPRSPSAVSAS YETTLSQERDST  
IFGIRGKKLHFSSSYAHKASSIAKSSSFCSMERDEEDSIIVSEGIIEEYLAFDHIDIEEG  
FHGKKSEAATEKQKLGYPPIAPFYCMKEDVLAYVFD SVWCKV VSCMEQLTRSHWEGFASD  
DESNVAVTRPDESSCVLSELHPLVLPRVPQSKVLYITSNPMSLCQASRHQPNVNDLLVH  
GMPLQPRNLSLMDKLLDLDKLLMRPGSSTILSTRNWP NRAVEFSTSSLSYTVQSTRRRN  
PPRTLHP ISTSHSAETPRSVEEILRGARVPVAPDSLSSPSPTPLSRNLLPPIGTAEV  
EHVSTVGPPQRQMKPHGDSSRAQS AVVDEPNYQQPQERLLL PDFFPRPNTTQSFLLD TQYR  
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>sp|Q494X1|F153C\_HUMAN Protein FAM153C OS=Homo sapiens GN=FAM153C PE=1 SV=1  
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EEATGVHMMQVDPATPAKKLEDSTITGSHQQMSASPSSAPAE EATEKTKVEEEVKTRKPK  
KKTRKPSKKS RWNVLKCWDIFNIF

>sp|POCG42|F157B\_HUMAN Putative protein FAM157B OS=Homo sapiens GN=FAM157B PE=3 SV=1  
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KPSEDIYKNRQRQQQQQQQQQQQLDLLFHQRIQISLWPRKQKRRKTEQHSHPFVKKAF  
RFSAGPGCRRPSSNKMLRSMGGGQRPMGLGSEFFRL HDLHLLAFATKRIWIHRRGEATA  
RPRAPEHPAPPATAVRGRDAASQNLKRRPGSGTDGLRLQGAEPSRL RTYAGGAVIPTGT  
PERAQPPPPQDPLGRRRWLSRNTWGPWP GTTQPPSPQLLRNDWGSCGMVPEAARGKV FQ  
DSQEGAHIRRET VSKSVCAEPWRHQ RARDPAPT NFPLKCQKQRGASTSSGQH GGRVNLVF  
FIDSPTVIAVPDLQCPTKYS GILY

>sp|Q96A26|F162A\_HUMAN Protein FAM162A OS=Homo sapiens GN=FAM162A PE=1 SV=2  
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HKPTDWQKKILIWSGRFKKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFMVI  
EGKAAQRHETLTSNLEKKARLKEEAAMKAKTE

>sp|Q8N8A8|F169B\_HUMAN Protein FAM169B OS=Homo sapiens GN=FAM169B PE=2 SV=3

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KGRLCGDTGACYLLPVFDTVFIRRKHWHRGLGTAMLRDFCETFPEDALGVSCSMSPAM  
YQAHPGNSEDVSRHARTSQNDRPRQPAPGDGSKERMCGEELEDTKDDPECGVEEEDAGLA  
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>sp|Q5W0V3|F16B1\_HUMAN Protein FAM160B1 OS=Homo sapiens GN=FAM160B1 PE=1 SV=1

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DILVQEENERESGETGPCMEYLLHHKILETLYTLGKADCPPGMKQQVLVFYTKLLGRIRQ  
PLLPHINVHRPVQKLIRLCGEVLATPTENEEIQFLCIVCAKLKQDPYLVNFFLENKMKSL  
ASKGVPNVI SEDTLKGQDSLSTDTGQSRQPEELSGATGMEQTELEDEPPHQMDHLSTSLD  
NLSVTSLEASVVCNPQDYNLVNSLLNLTRSPDGRIAVKACEGLMLLVSLPEPAAAKCLT  
QSTCLCELLTDRLASLYKALPQSVDPDIETVEAINWGLDSYSHKEDASAFPGKRALISF  
LSWFDYCDQLIKEAQKTA AVALAKAVHERFFIGVMEPQLMQTSEMGI LTSTALLHRIVRQ  
VTSDVLLQEMVFFILGEQREPETLAEISRHPLRHRLIEHCDHISDEISIMTLRMFEHLLQ  
KPNEHILYNLVLRLNEERNYTEYKPLCPEDKDVENGLIAGAVDLEEDPLFTDISPENTL  
PNQEWLSSSPATPDHPKNDGKTEVHKIVNSFLCLVPDDAKSSYHVEGTGYDTYL RDAHR  
QFRDYCAICLRWEWPGSPKALEKCNLEAAFFEGHFLKVLFD RMGRILDQPYDVNLQVTSV  
LSRLSLFPHPHIHEYLLDPYVNLAPGCRSLFSVIVRVGDLMLRIQRIQDFTPKLLLVRK  
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>sp|Q5VUB5|F1711\_HUMAN Protein FAM171A1 OS=Homo sapiens GN=FAM171A1 PE=1 SV=1

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RSATLMVYEDVVQIVSGFQGARPQPRVHFQRRALRLPENTSYSDLTAF LTAASSPSEVDS  
FPYLRGLDNGTGNSTRHDLTPVTAVSVHLLSSNGTPVLVDGPIYVTVPLATQSSLRHNA  
YVAAWRFDQKLGTLKSGLGLVHQEGSQLTWTYIAPQLGYVWAAMSPPIPGPVVTQDITT  
YHTVFLAAILGMAFILLVLLCLLLYYCRRKCLKPRQHHRKLQLPAGLESSKRDQSTSMS  
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TSQEFSSREELLSCKEEDKSQISFDNLTPSGTLGKDYHKSVEVFPLKARKSMEREGYESS  
GNDDYRGSYNTVLSQPLFEKQDREGPASTGSKLTIQEHLYPAPSSPEKEQLDRRPTECM  
MSRVDHLERPTSFP RPQG LICSSVDQVNSVYRKVLPALVIPAHYMKLPGDHSYVSQP  
LVVPADQQLEIERLQAE LSNPHAGIFPHPSQIQPQLSSQAISQQHLQDAGTREWSPQN  
ASMSELSIPASLNDAAL AQMNSEVQLL TEKALMELGGGKPLPHPRAFVSLDGRSNAHV  
RHSYIDLQ RAGRNGSNDASLD SGVDMNEPKSARKGRGDALSLQQNYPPVQEHQQKEPRAP  
DSTAYTQLVYLD DVEQSGSECGTTVCTPEDSALRCLLEGSSRRSGQLPSLQEETTRRTA  
DAPSEPAASPHQRRSAHEEEEEDDDDQGEDKKSPWQKREERPLMAFNIK

>sp|A6NC97|F172B\_HUMAN Putative protein FAM172B OS=Homo sapiens GN=FAM172BP PE=5 SV=3

MTQELSFQKFI EQSDLLGELKYDFNEKDEF RHTETQRPVFVNYENVLEKNSKRYQALGH  
LLEQYIYELLEKVCKLEKVYIPPEADKEEPSFFF MSEKALTNHHSALLILLQDHGVFRA  
GQWSQQAI IHHGLQHGSQIPCIQMALQAHYDVIVLNPNDNFVEPKVEKEWKGLLTQNIES  
SSLKMVQGGSFSLQHPPKCI PKRCSNTPEEHTAYIWDYFISKTEGKDIAFIVHGYGGLV  
FMDLLVRRRWEVMSKVYAVALIDSEHHVGHQLGSDVQLLAWIKHHCREWVTS PKPLDKPA  
ATVFKKEFPMVSAGTEKYILAPSSSLQSIFKYFKKALKARTTINFSRMPIVTRSSTKRKQ

SA

>sp|Q8IXR5|F178B\_HUMAN Protein FAM178B OS=Homo sapiens GN=FAM178B PE=2 SV=2

MAHEREILKGYEELKEKSHKPDVELIQHRAWRIDMVSTELSEFRKASYIESGPEEFYQR  
FKKCFSAATHIFISIKGKDSQNTAHGYLILNRTLHQQLKIKNPFLAPSSEAVRIPATLPHP  
GALPFPYPYVAKASSDELLNLQKPLQSALGFVILRSSQNWNNSKNRQRWSRTKAGQMSHGLQ  
MAGPQETVLALPLREGVQAAATVPILLYNLEDGLSDHPLDQGPRCPARRPCSPASAPAPT  
SPKKPKIQAPGETFPTDWSPPPVEFLNPRVLQASREAPAQRWVGVPQGLRRLAGELPE  
ELEQEHLDLDPKRGLALPEKLFWNTSGLSQAAAEFSWGGSGSYFNNLDYLLQEKREQA  
LEQERERLLLQECLNLNSLDLDEEEVPLTPEHRMLVEKYSVSLQTIPPVHPGETVFLPRC  
HPLPCILDSSLLKPRSHLEGLFLSSPPAQQLSFLRSGLLNILYLHMPDCPVSLQWLFQL  
LTWPPETSLGAFGLLWDLIVDGIQLQPEDDKHLWCPSLQEVREAFHSLGAHSPALYPLGP  
FWHGGVRLPGEAGLNENEEQDAPQEIALDISLGHIYKFLALCAQAQPGAYTDENLMGLIE  
LLCRTSLDVGLRLLPKVDLQQLLLLLLENIREWPGKLQELCCTLSWVSDHHHNLALVQF  
FPDMTSRSRRLRSQSLVVIARMLGQQEMLPLWQEKTLSSLSRLLGLMRPSSLRQYLD  
VPLPPCQEQQPKASAELDHKACYLCHSLLMLAGVVVSCQDITPDQWQELQLLCMQLDRHI  
STQIRESPQAMHRTMLKDLATQTYIRWQELLTHCQPPAQYFSPWKDI

>sp|A6NL82|F183A\_HUMAN Protein FAM183A OS=Homo sapiens GN=FAM183A PE=3 SV=2

MAGHPKEKVIPDEVHQNLRELYLKELRTQKLYTQYHVNPLRKIHTVTRKPMWHDNLE  
EPADARFLNLIHHAAGPRKKYPETQTENQEVGWDLEPLINPERHDRRLNHFRVCSBITL  
YKAKTWGLGDDHHK

>sp|A8MYZ0|F1882\_HUMAN Protein FAM188B2 OS=Homo sapiens GN=FAM188B2 PE=3 SV=2

MATKLRQILFGNTVHVFSYNWKKAYFRFHDPSSELAFTLEVKGKGARSIQMAVQGSIIKY  
LLFTRKGKDCNLGNLCEISKKEQEALAAALAGILWAAGAAQKATICLVTEDIYVASTPD  
YSVDNFTERLQLFEFLEKEAAEKFIYDHLLCFRGEESHGVLFLYSLIFSRTFERLQMDL  
DVTTTQLLQPNAGGFLCRQAVLNMLTGRASPNVFNGCEEKGSQETLHGVLTRSDVGYLQ  
WGKDASEDDRLSQQVGSMLKTPKLPWLCLNNGNYSILFCTNRQLSDWKMERLFDLYFYS  
GQPSQKKLVRLTIDTHSHHWERDQKEKHGPRRRFSPVEMAIRTKWSEATINWNGTVPPF

>sp|Q9NTI7|F212B\_HUMAN Protein FAM212B OS=Homo sapiens GN=FAM212B PE=2 SV=1

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GPVPGSPGPRTPQCEHPCWEGGRGPARTVCSPSSQPSLGSSTKFPSHRVCGRDLAPLP  
RTQPHQSCAQGQPERVEPDDWTSTLMSRGRNRQPLVLGDNVFDLVGNWLDLPELEKGGE  
KGETGGAREPKKEGQPELGRRFALTANIFKKFLRSVRPDRDLLKEKPGWVTPMPVES  
RTGRSQKVKKRSLSKSGHFPFPGTGEHRRGENPPTSCPKALEHSPSGFDINTAVV

>sp|B1ANY3|F220P\_HUMAN Putative protein FAM220BP OS=Homo sapiens GN=FAM220BP PE=5 SV=1

MRDRRGPLGTCLAQVQWAGGSDKLSYSLKKRMPTEGPWPADAPSWMNKPAVDGNSQSE  
ALSLEMAGLSLPSGGPVLPIYKESARRNPASAATPSAAVGLFPAPTEYFARVSCSGVEAL  
GRDWLGGGPRATHGHRGQCPKGEPRVSRLTRHQKLPEMGFWDDPPSAFPSSGLGSELEPS  
CLHSILSATLHACPEVLLKDETKRIFDLLNPMFSKQTIEFKMKFKSTSDGLQITLGLLA  
LQHFELANSLCHSLKYKQNNASRLILRVLE

>sp|PODMU3|F231L\_HUMAN FAM231A/C-like protein LOC102723383 OS=Homo sapiens PE=3 SV=1

MVSSKGLWKERPSAHTSECFSTTACPVAFILLVWNSQTPAGLQSLCTGRHPSLSARAQRA  
GPRASREEGTFWTERVQERWLIRSGSSQNESQEDQGAGLISQAGLKADNRRESSTWANE  
VEDRRPQCTPALNLTPSHPPHSLTTFLRSVIGIQIPPLVAAGGTVA

>sp|P16118|F261\_HUMAN 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1 OS=Homo sapiens GN=PFKFB1 PE=1 SV=3

MSPEMGELTQTRLQKIWIHSSGSSRLQRRRGSSIPQFTNSPTMVMVGLPARGKTYIST  
KLTRYLNWIGTPTKVFNLGQYRREAVSYKNYEFFLPDNMEALQIRKQCALAALKDVHNYL  
SHEEGHVAVFDATNTTRERRSLILQFAKEHGYKVFFIESICNDPGIIAENIRQVKLGSPD  
YIDCDREKVLDFLKRIECYEVNYQPLDEELDSHLSYIKIFDVGTRYMVNRVQDHIQSRT  
VYYLMNIHVTPRSIIYLCRHGESELNIRGRIGGDSGLSVRGKQYAYALANFIQSQGSSLK  
VWTSHMKRTIQTAELGVPYEQWKALNEIDAGVCEEMTYEEIQEHYPEEFALRDQDKYRY  
RYPKGESYEDLVQRLEPVMELERQENVLVICHQAVMRCLLAYFLDKSSDELPYLKCPH  
TVLKLTPVAYGCKVESIYLNVEAVNTHREKPENVDITREPEEALDTPAHY

>sp|Q96MK2|FA65C\_HUMAN Protein FAM65C OS=Homo sapiens GN=FAM65C PE=1 SV=4

MSVRLRFLSPGDTGAVGVVGRSASFAGFSSAQSRRIAKSINRNSVRSRMPAKSSKMYGTL  
RKGSVCADPKPQQVKKIFEALKRGLKEYLCVQQAELDHLSGRHKDTRRNSRLAFYYDLK  
QTRCVERHIRKMEFHISKVDELYDYCIQCRLRDGASSMQRAFARCPPSRAARESLELG  
RSLHECAEDMWLIEGALEVLHGEFHIRMKGLVGYARLCPGDHYEVLMLGRQRWKLKGRI  
ESDDSQTWDEEEKAFIPTLHENLDIKVTELRLGLSLAVGAVTCDIADFFTRPQVIVVDI  
TELGTIKLQLEVQWNPFDTESFLVSPSTGKFSMSRKGSLYNWTPPSTPSFRERYLSV  
LQQPTQQALLGGPRATSILSYLSDSLRGPSLRSQSQELPEMDSFSSDPRDTETSTSA  
STSDVGFLPLTFGPHASIEEEAREDP LPPGLPEMAHLSGGPFAEQPGWRNLGGESPSLP  
QGSLFHSGTASSSQNGHEEGATGDREDGPGVALEGPLQEVLELLRPTDSTQPQLRELEYQ  
VLGFRDRLKPCRARQEHTSAESLMECILESFAFLNADFALDELSFGGSQGLRKDRPLPP  
PSSLKASSRELTAGAPELDVLLMVHLQVCKALLQKLASPNLSRLVQECLLEEVAQQKHVL  
ETLSVLDFEKVGKATSIEEIIPQASRTKGCLKLWRGCTGPGRVLSCPATTLNQLKKTQ  
HRVRGKYPGQLEIACRRLEQVVS CGLLPGAGLPEEQIITWFQFHSYLQRQSVSDLEKH  
FTQLTKEVTLIEELHCAGQAKVVRKLQGKRLGQLQLPQTLRAWALLQLDGTPRVCRAAS  
ARLAGAVRNRSFREKALLFYTNALAENDARLQQAACLALKHLKGIESIDQTASLCQSDLE  
AVRAAAARETTLSFGKEGRLAFKMDKLCSEQREVFCQEADVEITIF

>sp|B3EWF7|EP2A2\_HUMAN Laforin, isoform 9 OS=Homo sapiens GN=EPM2A PE=1 SV=1

MHPKEGAEQHVFSVPVGAPTPPNRCRLVLPRLPAAGTPGPGIRAAAARHALPLWGGG  
ATTRGRRPAGAAGGGVAARAGALGAARCPPEAGRHRGGRRGPGPAGAGPVARGGGAGGR  
GGGAGRGGAGPRGHVLVQVPEAGARRALLGRYCQQTAPGAERELRPAPPTGASASGRP  
RRPRRRASRAFCPRPCALPGRPLTLLCRPCRRQPRLRLPTDSDLPYSAPGRPLAHSVA  
CPSDLVSAHPVLSFFPTAPASRASALRLPPGAPFALRVPLDLRVPPFAGPLAARPRAADG  
FNSPTPPWLGFVSSFSCSNLKKTKNDPTNETSVFANPRQQCAT

>sp|P56851|EP3B\_HUMAN Epididymal secretory protein E3-beta OS=Homo sapiens GN=EDDM3B PE=1 SV=2

MASSLKIWGTLLALLCILCTLLVQSKEVSWREFMKQHLYSPSREFREYKCDVLMRENEAL  
KDKSSHMFIIYISWYKIEHICTSDNWMDRFRNAYVWVQNPLKVLKCHQENSKNSYTESRSF  
NYIEFHCSMDGYVDSIEDLKMVEPIGN

>sp|A6NDY0|EPAB2\_HUMAN Embryonic polyadenylate-binding protein 2 OS=Homo sapiens GN=PABPN1L PE=2 SV=1

MWPFPSRSLFPPPTQAWLQTVSSDPEAQGWGAWNETKEILGPEGGEGKEEKEEEDAEED  
QGDGAGFLLSLLEQENLAECPLPDQELEAIKMKVCAMEQAEGTPRPPGVQQQAEEEEGTA  
AGQLSPETVGCPLSGTPEEKVEADHRSVYVGNVDYGGSAEELEAHFSRCGEVHRVTILC

DKFSGHPKGYAYIEFATKGSVQAAVELDQSLFRGRVIKVLPKRTNFPGISSTDRGGLRGH  
PGSRGAPFPHSLQGRPRLRPQGQNRARGKFSPWFSPY

>sp|Q99814|EPAS1\_HUMAN Endothelial PAS domain-containing protein 1 OS=Homo sapiens  
GN=EPAS1 PE=1 SV=3

MTADKEKKRSSERRKEKSRDAARCRRSKETEVFYELAHPLPHSVSSHLDKASIMRLA  
ISFLRTHKLLSSVCSENESEAEADQQMDNLYLKALEGFIAVVTQDGMIFLSENISKFMG  
LTQVELTGHSIFDFTHPCDHEEIRENLSKNGSGFGKSKDMSTERDFFMRMKCTVTNRG  
RTVNLKSATWKVLHCTGQVKVYNNCPHNSLCGYKEPLLSCLIIIMCEPIQHPSHMDIPLD  
SKTFLSRHSMDMKFTYCDRITELIGYHPEELLGRSAYEFYHALDSENMTKSHQNLCTKG  
QVVSQQYRMLAKHGGYVWLETQGTVIYNPRNLQPQCIMCVNYVLSEIEKNDVVFSDMQTE  
SLFKPHLMAMNSIFDSSGKGAVSEKSNFLFTKLKEEPEELAQLAPTPGDAIISLDFGNQN  
FEESSAYGKAILPPSQPWATELRSHSTQSEAGSLPAFTVPQAAAPGSTTPSATSSSSSCS  
TPNSPEDYYTSLDNDLKIEVIEKLFAMDTEAKDQCSTQTDNFELDLETLAPYIPMDGEDF  
QLSPICPEERLLAENPQSTPQHCFSAMTNIFQPLAPVAPHSPFLLDKFQQQLESKKTEPE  
HRPMSSIFFDAGSKASLPPCCGQASTPLSSMGGRSNTQWPPDPPLHFGPTKWAVGDQRTE  
FLGAAPLGPPVSPPHVSTFKTRSAKGFARGPDVLSAMVALSNKLKLRQLEYEEQAFQ  
DLSGGDPPGGSTSHLMWKRMKNLRGGSCPLMPDKPLSANVPNDKFTQNPMRGLGHPLRHL  
PLPQPPSAISPGENSKSRFPQCYATQYQDYSLSAHKVSGLMASRLLGPSFESYLLPELT  
RYDCEVNVPLVGSSTLLQGGDLLRALDQAT

>sp|Q6UW88|EPGN\_HUMAN Epigen OS=Homo sapiens GN=EPGN PE=1 SV=2

MALGVPISVYLLFNAMTALTEEAATVTPPITAQQGNWTVNKTEADNIEGPIALKFSHLC  
LEDHNSYINGACAFHHELEKAICRCFTGYTGERCEHLTTSYAVDSYEKYIAIGIGVGL  
LLSGFLVIFYCYIRKRCLKLKSPYNVCSGERRPL

>sp|P29317|EPHA2\_HUMAN Ephrin type-A receptor 2 OS=Homo sapiens GN=EPHA2 PE=1 SV=2

MELQAARACFALLWGCALAAAAAQGKEVLLDFAAAGGELGWLTHPYGKGWDLMNIMN  
DMPIYMYSVCNMSGDQDNWLRTNWVYRGEAERIFIELKFTVRDCNSFPGGASSCKETFN  
LYYAESDLDYGTNFQKRLFTKIDTIAPDEITVSSDFEARHVKNLVEERSVGPLTRKGFYL  
AFQDIGACVALLSVRVYKKCEPELLQGLAHFPETIAGSDAPSLATVAGTCVDHAVVPPGG  
EEPRMHCAVDGEWLVPIGQCLCQAGYEKVEDACQACSPGFFKFEASESPCLECPEHTLPS  
PEGATSCCEEGFFRAPQDPASMPCTRPPSAPHYLTAVGMGAKVELRWTPPQDSGGREDI  
VYSVTCEQCWPESGECGPCEASVRYSEPPHGLTRTSVTVSDLEPHMNYTFTVEARNGVSG  
LVTSRSFRTASVSINQTEPPKVRLEGRSTTSLSVSWSIPPPQQSRVWKYEVTYRKKGDSN  
SYNVRRTTEGFSVTLDDLAPDTTYLVQVQALTQEGQGAGSKVHEFQTLSPEGSGNLAVIGG  
VAVGVVLLLVLAGVFFIHRRRKNQRARQSPEDVYFSKSEQLKPLKTYVDPHTYEDPNQA  
VLKFTTEIHPSCVTRQKQVIGAGEFGEVYKGLKTS SGKKEVPVAIKTLKAGYTEKQRVDF  
LGEAGIMGQFSHHNIIRLEGVISKYKPMMIITEYMENGALDKFLREKDGEFSVLQLVGML  
RGIAAGMKYLANMNYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEATYTTSGGKIP  
IRWTAPEAISYRKFTSASDVWSFGIVMWEVMTYGERPYWELSNHEVMKAINDFRLPTPM  
DCPSAIYQLMMQCWQERARRPKFADIVSILDKLIRAPDSLKTLADFDPVVSIRLPSTSG  
SEGVPFRVTSEWLESIKMQQYTEHFMAAGYTAIEKVVQMTNDDIKRIGVRLPGHQKRIAY  
SLLGLKDQVNTVGIP I

>sp|P29320|EPHA3\_HUMAN Ephrin type-A receptor 3 OS=Homo sapiens GN=EPHA3 PE=1 SV=2

MDCQLSILLLLSCSVLDSFGELIPQPSNEVNLLDSKTIQGELGWISYPSHGWEISGVDE  
HYTPIRTYQVCNMDHSQNNWLRTNWVPRNSAQKIYVELKFTLRDCNSIPLVLGTCKETF

NLYYMESDDDHGVKFRHQFTKIDTIAADESFTQMDLGDRILKLNTEIREVGPVNKKGFY  
LAFQDVGACVALSVRVYFKKCPFTVKNLAMFPDTPMDSQSLVEVRGSCVNNKEEDPP  
RMYCSTEGEWLVPIGKCSCNAGYEERGFMCAQCRPGFYKALDGNMKCAKCPHSSQTQEDG  
SMNCRCENNYFRADKDPSPMACTRPPSSPRNVISNINETSVIDWSWPLDTGGRKDVTFN  
IICKKCGWNIKQCEPCSPNVRFLPRQFGLTNTTVTVTDLLAHTNYTFEIDAVNGVSELSS  
PPRQFAAVSITTNQAAPSPVLTIKKDRTSRNSISLSWQEPEHPNGIILDYEVKYEKQEQ  
ETSYTILRARGTNTVISSLKPDTIYVFQIRARTAAGYGTNSRKFEFETSPDSFISISGESS  
QVVMIAISAATAVAILLLTVVIYVLIGRFGYKSKHGADEKRLHFGNGHLKLPGLRITYVDPH  
TYEDPTQAVHEFAKELDATNISIDKVVGAGEFGEVCSGRLKLPSSKEISVAIKTLKGYT  
EKQRRDFLGEASIMGQFDHPNIIIRLEGVVTCKPVMIVTEYMENGLSDSFLRKHDAQFTV  
IQLVGMRLGIASGMKYLSDMGYVHRDLAARNILINSNLVCKVSDFGLSRVLEDDPEAAVT  
TRGGKIPIRWTSPEAIAYRKFTSASDVWSYGIWLWEVMSYGERPYWEMSNQDVIKAVDEG  
YRLPPPMDCPAALYQLMLDCWQKDRNNRPKFEQIVSILDKLIRNPGSLKIITSAAARPSN  
LLLDQSNVDITTFRTTGDWLNQVWTAHCKEIFTGVEYSSCDTIAKISTDDMKKVGTVTVG  
PQKKIISSIKALETQSKNGPVPV

>sp|P54764|EPHA4\_HUMAN Ephrin type-A receptor 4 OS=Homo sapiens GN=EPHA4 PE=1 SV=1

MAGIFYFALFSCFLGICDAVTGSRVYPANEVTLDSRSVQELGWIASPLEGGWEEVSIM  
DEKNTPIRTYQVCNVMPSQNNWLRTDWITREGAQRVYIEIKFTLRDCNSLPGVMGTCKE  
TFNLYYYESDNDKERFIRENQFVKIDTIAADESFTQVDIGDRIMKLNTEIRDVGPLSKKG  
FYLAQDVGACIALSVRVYFKKCPFTVRNLAQFPDTITGADTSSLVEVRGSCVNNSEEK  
DVPKMYCGADGEWLVIIGNCLNAGHEERSGECQACKIGYYKALSTDAKCPHSSYSV  
WEGATSCTCDRGFFRADNDAASMPCTRPPSAPLNLSNVNETSVNLEWSSPQNTGGRQDI  
SYNVVCKKCGAGDPSKCRPCGSGVHYTPQQNGLKTTKVSITDLLAHTNYTFEIVAVNGVS  
KYNPNPDQSVSVTVTTNQAAPSSIALVQAKEVTRYVALAWLEPDRPNGVILEYEVKYYE  
KDQNERSYRIVRTAARNTDIKGLNPLTSYVFHVRARTAAGYGDFSEPLEVTTNTVPSRII  
GDGANSTVLLSVSGSVVLVILIAAFVISRRRSKYSKAKQEADEEKHLNQGVRTYVDPF  
TYEDPNQAVREFAKEIDASCIKIEKVIGVGEFGEVCSGRLKVPKREICVAIKTLKAGYT  
DKQRRDFLSEASIMGQFDHPNIIHLEGVVTCKPVMIIITEYMENGLDAFLRKNDGRFTV  
IQLVGMRLGIGSGMKYLSDMSYVHRDLAARNILVNSNLVCKVSDFGMSRVLEDDPEAAVT  
TRGGKIPIRWTAPEAIAYRKFTSASDVWSYGIWMWEVMSYGERPYWDMSNQDVIKAIIEG  
YRLPPPMDCPIALHQLMLDCWQKERSDRPKFGQIVNMLDKLIRNPNLSLKRTGTSSRPNT  
ALLDPSSPEFSAVVSGDWLQAIKMDRYKDNFTAAGYTTLEAVVHVNQEDLARIGITAIT  
HQNKILSSVQAMRTQMOMHGRMPV

>sp|P29322|EPHA8\_HUMAN Ephrin type-A receptor 8 OS=Homo sapiens GN=EPHA8 PE=1 SV=2

MAPARGRLPPALWVVTAAAAAATCVSAARGEVNLLDTSTIHGDWGWLTYPAGWDSINEV  
DESFPQIHTYQVCNVMSPNQNNWLRTSWVPRDGARRVYAEIKFTLRDCNSMPGVLGTCKE  
TFNLYYLESRDRLGASTQESQFLKIDTIAADESFTGADLGVRRLKLNTEVRVSGPLSKRG  
FYLAQDQIGACLAILSLRIYYKKCPAMVRNLAASFVAVTGADSSSLVEVRGQCVRHSEER  
DTPKMYCSAEGEWLVPIGKCVCSAGYEERRDACVACELGFYKSAPGDQLCARCPHSHSA  
APAAQACHCDLSYYRAALDPSSACTRPPSAPVNLISVNGTSVTLEWAPPLDPGGRSDI  
TYNAVCRRCPWALSRCEACSGTRFVPQQTSLSVQASLLVANLLAHMNYSFWIEAVNGVSD  
LSPEPRRAAVVNITTNQAAPSQVVVIRQERAGQTSVSLWQEPEQPNGIILEYEIKYYEK  
DKEMQSYSTLKAVTTRATVSGLKPGTRYVFQVRARTSAGCGRFSQAMEVETGKPRPRYDT  
RTIVWICLTLITGLVLLLLLLICKKRHCYKAFQDSDEEKMHYQNGQAPPPVFLPLHHP

PGKLPEPQFYAEPHTYEEPGRAGRSFTREIEASRIHIEKIIIGSGDSGEVCYGRLRVPGQR  
DVPVAIKALKAGYTERQRRDFLSEASIMGQFDHPNIIIRLEGVVTGRGLAMIVTEYMENG  
LDTFLRTHDGQFTIMQLVGMLRGVAGMRYLSDLGYVHRDLAARNVLVDSNLVCKVSDFG  
LSRVLEDDPDAAAYTTTGKKIPIRWTAPEAIAFRTFSSASDVWSFGVVMWEVLAYGERPYW  
NMTNRDVISSVEEGYRLPAPMGCPHALHQLMLDCWHKDRAQRPRFSQIVSVLDALIRSPE  
SLRATATVSRCPPAFVRSCFDLRGGSGGGGLTVGDWLDIIRMGRYRDHFAAGGYSSLG  
MVLRMNAQDVRALGITLMGHQKKILGSIQTMRAQLTSTQGPRRHL

>sp|P29323|EPHB2\_HUMAN Ephrin type-B receptor 2 OS=Homo sapiens GN=EPHB2 PE=1 SV=5

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VCNVFESSQNNWLRTKFIIRRGGAHRIHVEMKFSVRDCSSIPSVPGSCKETFNLYYYEADF  
DSATKTFPNWMENPWVKVDITAADESFSQVDLGGVMKINTEVRSFGPVSRSFYLAQD  
YGGCMSLIAVRVFYRKCPRIIQNGAIFQETLSGAESTSLVAARGSCIANAEVDVPIKLY  
CNGDGEWLVPIGRCMCKAGFEAVENGTVCRGCPSGTFKANQGDEACTHCPINSRTTSEGA  
TNCVCNRNGYYRADLDPLDMPCTTIPSAPQAVISSVNETSLMLEWTPPRDSGGREDLVYNI  
ICKSCGSGRGACTRCGDNVQYAPRQLGLEPRIYISDLLAHTQYTFEIQAVNGVTDQSPF  
SPQFASVNITTNQAAPSAVSIMHQVSRTVDSITLSWSQPDQPNGVILDYELQYYEKELSE  
YNATAIKSPTNTVTVQGLKAGAIYVFQVRARTVAGYGRYSGKMYFQTMTEAEYQTSIQEK  
LPLIIIGSSAAGLVFLIAVVVIAIVCNRRGFERADSEYTDKLQHYTSGHMTPGMKIYIDPF  
TYEDPNEAVREFAKEIDISCVKIEQVIGAGEFGEVCSGHLKLPKREIFVAIKTLKSGYT  
EKQRRDFLSEASIMGQFDHPNIIHLEGVVTKSTPVMIIITEFMENGSLDSFLRQNDGQFTV  
IQLVGMLRGIAAGMKYLADMNIVHRDLAARNILVNSNLVCKVSDFGLSRFLEDDTSDPTY  
TSALGGKIPIRWTAPEAIQYRKFTSASDVWSYGIVMWEVMSYGERPYWDMTNQDVINAIE  
QDYRLPPPMDCPSALHQLMLDCWQKDRNHRPKFGQIVNTLDKMIRNPNSLKAMAPLSSGI  
NLPLLDRTIPDYTSFNTVDEWLEAIKMGQYKESFANAGFTSFDVVSQMMMEDILRVGVTL  
AGHQKKILNSIQVMRAQMNQIQSVEGQPLARRPRATGRTKRCQPRDVTKKTCNSNDGKKK  
GMGKKKTDPRGREIQGIFFKEDSHKESNDCSCGG

>sp|P54753|EPHB3\_HUMAN Ephrin type-B receptor 3 OS=Homo sapiens GN=EPHB3 PE=1 SV=2

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GWEEVSGYDEAMNPIRTYQVCNVRESSQNNWLRTGFIWRRDVQRVYVELKFTVRDCNSIP  
NIPGSCKETFNLFYYEADSDVASASSPFWMENPYVKVDITAPDESFSRLDAGRNTKVR  
FGPLSKAGFYLAQDQGACMSLISVRAFYKKCASTTAGFALFPETLTGAEPSTLVIAPGT  
CIPNAVEVSVPLKLYCNGDGEWMVPVGACTCATGHEPAAKESQCRPCPPGSYKAKQGE  
CLPCPPNSRTTSPAASICTCHNNFYRADSDSADSACTTVPSPPRGVISNVNETSLILEWS  
EPRDLGGRDRLYNVICKKCHGAGGASACSRCDNVEFVPRQLGLTERRVHISHLLAHT  
YTFEVQAVNGVSGKSPLPPRYAAVNITTNQAAPSEVPTLRHSSSGSSLTSLWAPPERPN  
GVILDYEMKYFEKSEGIASVTSMNSVQLDGLRPDARYVVQVRARTVAGYQYSRPAEF  
ETTSESGSAQQLQEQLPLIVGSATAGLVFVAVVVIAIVCLRKQRHGSDEYTEKLQY  
IAPGMKVYIDPFTYEDPNEAVREFAKEIDVSCVKIEEVIGAGEFGEVCRGLKQPGRREV  
FVAIKTLKVGYTERQRRDFLSEASIMGQFDHPNIIIRLEGVVTKSRPVMILTEFMENCALD  
SFLRLNDGQFTVIQLVGMLRGIAAGMKYLSEMNIVHRDLAARNILVNSNLVCKVSDFGLS  
RFLEDDPSDPTYTSSLGGKIPIRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSYGERPYW  
DMSNQDVINAQDYRLPPPMDCPTALHQLMLDCWVRDRNLRPKFSQIVNTLDKLIRNAA  
SLKVIAAQSQMSQPLLDRTVPDYTTFTTVGDWLDIAIKMGYKESFVSAGFASFDLVAQM  
TAEDLLRIGVTLAGHQKKILSSIQDMRLQMNQTLPVQV



>sp|Q7L775|EPMIP\_HUMAN EPM2A-interacting protein 1 OS=Homo sapiens GN=EPM2AIP1 PE=1 SV=1  
MWMTPKRSKMEVDEALVFRPEWTQRYLVVEPPEGDGALCLVCRRLIVATRERDVRRHYEA  
EHEYERYVADGERAALVERLRQGDLPVASFTPEERAARAGLGLCRLLALKGRGWEGEDF  
VYQCMEVLLREVLPEHVSVLQGVDLSPDITRQRIISIDRNLRNQLFNRRARDFKAYSLALD  
DQAFVAYENYLLVFIRGVGPELEVQEDLLTIINLTHHFSVGALMSAILESQTAGLSLQR  
MVGLTTHTLRMIGENSGLVSYMREKAVSPNCWNVIHYSGLHLELLSSYDVDVNQIINT  
ISEWIVLIKTRGVRRPEFQTLTSESEHGERVNGRCLNNWLRGKTLKLIFSLRKEMEA  
FLVSVGATTVHFSDKQWLCDFGLVDIMEHLRELSEELRVSKVFAAAAFDHICTFEVKLN  
LFQRHIEEKNLTDFPALREVDELKQNKEDKIFDPDRYQMVICRLQKEFERHFKDRLF  
IKKDLELFSNPFNFKPEYAPISVRVELTKLQANTNLWNEYRIKDLGGFYAGLSAESYPII  
KGVACKVASLFDNSQICEKAFSYLTRNQHTLSQPLTDEHLQALFRVATTEMPEGWDDLVR  
ERNESNP

>sp|P19235|EPOR\_HUMAN Erythropoietin receptor OS=Homo sapiens GN=EPOR PE=1 SV=1  
MDHLGASLWPQVGSCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDL  
VCFWEEAASAGVPGNYSFSYQLEDEPWKLCRLHQAPTARGAVRFWCSLPTADTSSFVPL  
ELRVTAASGAPRYHRV IHINEVVLLDAPVGLVARLADESGHVLRWLPPPETPMTSHIRY  
EVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARMAEPSFGGFWSAWSEPV  
SLLTPSDLDPLILTLISILVILVLLTVLALLSHRRALKQKIWPGIPSESEFEGFLTTH  
KGNFQLWLQNDGCLWWSPCTPFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVG  
SEHAQDTYLVLDKWLPRNPSEDLPGGGSVDIVAMDEGSEASSCSALASKPSPEGAS  
AASFEYITLDPSQLLRPWTLCPPELPTPHLKYLVLVSDSGISTDYSSGDSQGAQGGL  
SDGPYSNPYENSLIPAAEPLPPSYVACS

>sp|O75616|ERAL1\_HUMAN GTPase Era, mitochondrial OS=Homo sapiens GN=ERAL1 PE=1 SV=2  
MAAPSWRGARLVQSVLRVWQVGPVHVARERVIPFSSLLGFQRRCVSCVAGSAFSGPRLASA  
SRSNQGQSALDHFLGFSQPDSSVTPCVPVAVSMNRDEQDVLLVHHPDMPENSRLRVVLLG  
APNAGKSTLSNQLGRKVFPVSRKVHTTRCQALGVITEKETQVILLDTPGIIISPGKQKRH  
HLELSLLEDPWKSMESADLVVVLVDVSDKWTRNQLSPQLLRCLTKYSQIPSVLVMNKVDC  
LKQKSVLLELTAALTEGVVNGKKLMRQAFHSHPGTHCPSPAVKDPNTQSVGNPQRIGWP  
HFKEIFMLSALSQEDVKTLKQYLLTQAQPGPWEYHSAVLTSQTPEEICANIIREKLEHL  
PQEVYPYNVQKTAVWEEGPGGELVIQKLLVPKESYVKLLIGPKGHVISQIAQEAGHDL  
DIFLCDVDIRLSVKLLK

>sp|POC838|ERAS1\_HUMAN Putative uncharacterized protein encoded by ERICH1-AS1 OS=Homo sapiens GN=ERICH1-AS1 PE=5 SV=1  
MGTAQVLPGILQKHCCILPDRNTGRLQTIIVLLDWCTKYGFVCVQSIAPTQPKLPRAD  
VPLSVRLQDTVPLLHGASRCLSLT

>sp|P19447|ERCC3\_HUMAN TFIIH basal transcription factor complex helicase XPB subunit OS=Homo sapiens GN=ERCC3 PE=1 SV=1  
MGKRDRADRDKKSKRKRHYEDEEDDEEDAPGNDPQEAVPSAAGKQVDESGTKVDEYGAKD  
YRLQMPLKDDHTSRPLWVAPDGHIFLEAFSPVYKQAQDFLVAIAEPVCRPTHVHEYKLTA  
YSLYAAVSVGLQTS DITEYLRKLSKTGVPDGMQFIKLCTVSYGKVKLVLKHNRYFVESC  
HPDVIQHLLQDPVIRECRLRNSEGEATELITETFTSKSAISKTAESSGGPSTSRVTDPPQ  
KSDIPMDLFDIFYEQMDKEEEEEETQTVSFEVKQEMIEELQKRCIHLEYPLLAEYDFRND  
SVNPDINIDLKPTAVLRPYQEKSLRKMFGNGRARSQVIVLPCGAGKSLVGVTAACTVRKR  
CLVLGNSAVSVEQWKAQFKMWSTIDDSQICRFTSDAKDKPIGCSVAISTYSMLGHTTKRS

WEAERVMEWLKTQEWGLMILDEVHTIPAKMFRRVLTIVQAHCKLGLTATLVREDDKIVDL  
NFLIGPKLYEANWMEQLQNNGYIAKVQCAEVWCPMSPEFYREYVAIKTKKRILLYTMNPNK  
FRACQFLIKFHERRNDKIIVFADNVFALKEYAIRLNKPYIYGPTSQGERMQILQNFKHNP  
KINTIFISKVGDTSFDLPEANVLIISSHGGSRRQEAQRLGRVLRACKGMVAEEYNAFFY  
SLVSQDTQEMAYSTKRQRFLVDQGYSFKVITKLAGMEEEDLAFSTKEEQQLLQKVLAAAT  
DLDAEEEVVAGEFGSRSSQASRRFGTMSSMSGADDTVYMEYHSSRSKAPSKHVHPLFKRF  
RK

>sp|Q969X5|ERGI1\_HUMAN Endoplasmic reticulum-Golgi intermediate compartment protein 1  
OS=Homo sapiens GN=ERGIC1 PE=1 SV=1

MPFDFRRFDIYRKVPKDLTQPTYTGAIISICCLFILFLFSELGTGFIITEVVNELYVDD  
PDKDSGGKIDVSLNISLNLHCELVGLDIQDEMGRHEVGHIDNSMKIPLNNGAGCRFEGQ  
FSINKVPGNFHVSTHSATAQPQNPDMTTHVIHKL SFGDTLQVQNIHGAFNALGGADRLTSN  
PLASHDYILKIVPTVYEDKSGKQRYSYQYTVANKEYVAYSHTGRIIPAIWFRYDLSPITV  
KYTERRQPLYRFITTICAIIGGTFTVAGILDSCIFTASEAWKKIQLGKMH

>sp|Q94905|ERLN2\_HUMAN Erlin-2 OS=Homo sapiens GN=ERLIN2 PE=1 SV=1

MAQLGAVVAVASSFFCASLFSAVHKIEEGHIGVYYRGGALLTSTSGPGFHLMLPFITSYK  
SVQTTLQTDEVKNVPCGTSGGVMIYFDRIEVDNVLVNAVYDIVKNYTADYDKALIFNKI  
HHELNQFCSVHTLQEVYIELFDQIDENLKLALQQDLTSMAPGLVIQAVRVTKPNIPEAIR  
RNYELMESEKTKLLIAAQKQKVVEKEAETERKKALIEAEKVAQVAEITYGQKVMKEKETEK  
KISEIEDAAFLAREKAKADAECYTAMKIAEANKLKLTPEYLQLMKYKAIASNSKIYFGKD  
IPNMFMSAGSVSKQFEGADKLSFGLEDEPLETATKEN

>sp|Q8TAM6|ERMIN\_HUMAN Ermin OS=Homo sapiens GN=ERMN PE=2 SV=1

MTDVPATFTQAECNGDKPPENGQQTITKISEELTDVDSPLPHYRVEPSLEGALTKGSQEE  
RRKLQGNMLLNSSMEDKMLKENPEEKLFIHKAITDLSLQETSADMTFREGHQWEKIPL  
SGSNQEIRRQKERITEQPLKEEDEDKKNKGHQAEEIWLGF RKPSQADMLHSHKHDEEQK  
VWDEEIDDDDDNDCNDEDEVRIEFKKKHEEVSQFKEEGDASEDSPLSSASSQAVTPDE  
QPTLGKKSISRNASRYNTISYRKIRKGNTKQRIDEFESMMHL

>sp|Q75460|ERN1\_HUMAN Serine/threonine-protein kinase/endoribonuclease IRE1 OS=Homo  
sapiens GN=ERN1 PE=1 SV=2

MPARRLLLLLTLPLGLGIFGSTSTVTLPETLLFVSTLDGSLHAVSKRTGSIKWLKEDP  
VLQVPHTHVEEPAFLPDNDGSLYTLGSKNNEGLTKLPFTIPELVQASPCRSSDGILYMCK  
KQDIWYVIDLLTGEKQQLSSAFADSLCPSTSLYLGRTEYTTIMYDTKTRELWNATYF  
DYAASLPEDDVYKMSHFVSNGDGLVVTVDSESGDVLWIQNYASPVAFYVWQREGLRKV  
MHINVAVETLRYLTFMSGEVGRITKWYFPKETEAKSKLTPTLYVGKYSTSLYASPSMV  
HEGVAVVPRGSTLPLEGPQTDGVTIGDKGECVITPSTDVKFDPGLSKNKLNYLRNYWL  
LIGHHETPLSASTKMLERFPNNLPKHRENVIPADSEKKSFEVINLVDQTSNAPTTVSR  
DVEEKPAHAPARPEAPVDSMLKDMATIIILSTFLLIGWAFIITYPLSMHQQQQQLHQHQQFQ  
KELEKIQLLQQQQQLPFHPPGDTAQDGELLDTS GPYSESSGTSSPSTSPRASNHSLSG  
SSASKAGSSPSLEQDDGEETSVVIVGKISFCPKDVLGHGAEGTIVYRGMFNDRDVAVKR  
ILPECFSFADREVQLLRESDEHPNVIYFCTEKDRQFYIAIELCAATLQEYVEQKDFAH  
LGLEPITLLQQTTSGLAHLHSLNIVHRDLKPHNILISMPNAHGKIKAMISDFGLCKKLAV  
GRHSFSRRSGVPGTEGWIAPEMLS ECKENPTYTVDIFSAGCVFYYVISEGSHPF GKSLQ  
RQANILLGACSLDCLHPEKHEDVIARELIEKMIAMD PQKRPSAKHVLKHPFFWSLEKQLQ  
FFQDVSDRIEKESLDGPIVKQLERGGRAVVKMDWRENITVPLQTDLRKFRTYKGGSVRDL

LRAMRNKKHHYRELPAEVRETLGSLPDDFVCYFTSRFPHLLAHTYRAMELCSHERLFQPY  
YFHEPPEPQPPVTPDAL

>sp|Q96DN0|ERP27\_HUMAN Endoplasmic reticulum resident protein 27 OS=Homo sapiens GN=ERP27  
PE=1 SV=1

MEAAPSRFMFLFLLTCELAEEVAAEVEKSSDGPGAAQEPTWLTDPAAEFIAATEVAV  
IGFFQDLEIPAVPILHSMVQKFPGVSFQISTDSEVLTHYNITGNTICLFRDVDNEQLNLE  
DEDIESIDATKLSRFIEINSLHMTVEYNPVTVIGLFNSVIQIHLLIMNKASPEYEENMH  
RYQKAAKLFQGKILFILVDSGMKENGKVISFFKLKESQLPALAIYQTLDDWDTLPTAEV  
SVEHVQNFCDFGLSGKLLKENRESEGKTPKVEL

>sp|Q9BS26|ERP44\_HUMAN Endoplasmic reticulum resident protein 44 OS=Homo sapiens GN=ERP44  
PE=1 SV=1

MHPAVFLSLPDLRCSLLLLVTWVFPTVTEITSLDTENIDEILNNADVALVNFYADWCRF  
SQMLHPIFEEASDVKEEFPNENQVVFARVDCDQHS DIAQRYRISKYPTLKLFRNGMMMK  
REYRGQRSVKALADYIRQQKSDPIQEIRDLAEITTLDRSKRNIIGYFEQKSDNYRVFER  
VANILHDDCAFLSAFGDVSKPERYSGDNIIYKPPGHSAPDMVYLGAMTNFDVTYNWIQDK  
CVPLVREITFENGEELETEGLPFLILFHMKEDTESLEIFQNEVARQLISEKGTINFLHAD  
CDKFRHPLLIHQTPADCPVIAIDSFHMYVFGDFKDVLPGLKQFVFDLHSGKLHREF  
HHGPDPTDTAPGEQAQDVASSPPESSFQKLAPSEYRYTLLRDRDEL

>sp|P11474|ERR1\_HUMAN Steroid hormone receptor ERR1 OS=Homo sapiens GN=ESRRA PE=1 SV=3

MSSQVVGIEPLYIKAEPASPDSPKGSSETETEPVALAPGPAPTRCLPGHKEEEDGEGAG  
PGEQGGGKLVLSLPKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQGSIEYSCPASNE  
CEITKRRRKACQACRFTKCLRVMLEKEGVRLDRVRGGRQKYKRRPEVDPLPFGPFPAGP  
LAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGPDGHLPAVATLCDLFDREIVVTI  
SWAKSIPGFSSLSLSDQMSVLQSVWMEVLVLGVAQRSLPLQDELAFADLVLDEEGARAA  
GLGELGAALLQLVRRLLQALRLEREYVLLKALALANSDSVHIEDAEAVEQLREALHEALL  
EYEAGRAGPGGAERRRAGRLLLTLPLLRQTAGKVLAHFYGVKLEGVPMHKLFLMLEA  
MMD

>sp|Q96J88|ESIP1\_HUMAN Epithelial-stromal interaction protein 1 OS=Homo sapiens GN=EPSTI1  
PE=2 SV=2

MNTRNRVVNSGLGASPARPTRDPQDPSGRQGELSPVEDQREGLEAAPKGPSRESVVHAG  
QRRTSAYTLIAPNINRRNEIQRIAEQELANLEKWKEQNRAKPVHLVPRRLGGSQSETEVR  
QKQQLQLMQSKYQKCLKREESVRIKKEAEEAELQKMKAIQREKSNKLEKKRLQENLRRE  
AFREHQYKTAEFLSKLNTESPDRSACQSAVCGPQSSTWKLPIPRDHSWARSWAYRDSL  
KAENRKLQKMKDEQHQSLELKRQQEQERAKIHQTEHRRVNNAFLDRLQGKSQPGG  
LEQSGGCWNMNSGNSWGI

>sp|AOFGR9|ESYT3\_HUMAN Extended synaptotagmin-3 OS=Homo sapiens GN=ESYT3 PE=1 SV=1

MRAEPCAPGAPSALGAQRTGPELRLSSQLPELCTFVVRVLFYLGVPYLAGYLGSLIT  
WLLLGALLWMMWRRNRGKLGRLAAAFELDNREFISRELRGQHLPWIIHFPDVERVEW  
ANKIISQTPYLSMIMESKFREKLEPKIREKSIHLRTFTFTKLYFGQKCPRVNGVKAHTN  
TCNRRRVTVDLQICYIGDCEISVELQKIQAGVNGIQLQGTLRVILEPLLVDKPFVGAVTV  
FFLQKPHLQINWTGLTNLLDAPGINDVSDSLEDLIATHLVLPNRVTVPVKKGLDLTNLR  
FPLPCGVIRVHLLAEQLAQKNFLGLRGKSDPYAKVSIQLQHFRSRTIYRNLNPTWNEV  
FEFMVYEVPGQDLEVDLYDEDTDRDDFLGSLQICLGDVMTNRVVDWFVLDNDDTSGRLHL  
RLEWLSLLTDQEVLTEDHGGLSTAILVVFLESACNLPRNPFDYLNGEYRAKKLSRFARNK

VSKDPSSYVKLSVGKKTHTSKTCPHNKDPVWSQVFSFFVHNVATERLHLKVLDDDQECAL  
GMLEVPLCQILPYADLTLEQRFQLDHSGLDLSLMLRVLRLQVEERELGSPYTGPEALK  
KGPLLKIKVATNQGPKAQPQEEGPTDLPCPPDPASDTKDVSRTTTTTSATTVATEPTSQ  
ETGPEPKGKDSAKRFCEPIGEKKSPATIFLTVPGPHSPGPIKSPRPMKCPASPAWPPKR  
LAPSMSSLNSLASSCFDLADISLNIEGGDLRRRQLGEIQLTVRYVCLRRCLSVLINGCRN  
LTPCTSSGADPYVRVYLLPERKWACRKKTSVKRKTLEPLFDETFEFPMEEVKKRSLDV  
AVKNSRPLGSHRRKELGKVLIDLSKEDLIKGFQWYELTPNGQPRS

>sp|P41162|ETV3\_HUMAN ETS translocation variant 3 OS=Homo sapiens GN=ETV3 PE=1 SV=2

MKAGCSIVEKPEGGGGYQFPDWAYKTESSPGSRQIQLWHFILELLQKEEFRHVIWQQGE  
YGEFVIKDPDEVARLWGRKCKPQMNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKL  
VMNYPFINIRSSGVVPQSAPPVPTASSRFHFPPLDTHSPTNDVQGRFSASSLTASGQE  
SSNGDRKTELSELEDGSAADWRRGVDPVSSRNAIGGGGIGHQKRKPDIMLPLFARPGMY  
PDPHSPFAVSPIPGRGGVLNVPISPALSLTPTIFSYPSPGLSPFTSSSCFSFNPEEMKH  
YLHSQACSVFNYHLSRPTFPRYPGLMVPPLQCQMHPEESTQFSIKLQPPPVGKKNRERVE  
SSEESAPVTTPTMASIPPRIKVEPASEKDPESLRQSAREKEEHTQEEGTVPSRTIEEEKG  
TIFARPAAPPIWPSVPISTPSGEPLEVTEDSEDRPGKEPSAPEKKEDALMPPKLRLKRRW  
NDDPEARELSKSGKFLWNGSGPQGLATAADA

>sp|P41161|ETV5\_HUMAN ETS translocation variant 5 OS=Homo sapiens GN=ETV5 PE=1 SV=1

MDGFYDQQVPMVPGKSRSEECRGPVIDRKRKFLDLDLAHDSEELFQDLSQLQEAWLAE  
AQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSELSSCSHEQALGANYGEKCLYNY  
CAYDRKPPSGFKPLTPPTPLSPTHQNPLFPPPQATLPTSGHAPAAGPVQGVGPAPAPHS  
LPEPGPQQTFAPVRPPHQPLQMPKMMPENQYPSEQRFRQLSEPCHPFPQPQGVPGDNR  
PSYHRQMSEPIVPAAPPPQGFQYHDPLYEHGVPGMPGPPAHGFQSPMGIKQEPDYC  
VDSEVPNCQSSYMRGGYFSSHEGFSYEKDPRLYFDDTCVPERLEGKVKQEPTMYREGP  
PYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYD  
KLSRSLRYYYEKIMQKVAGERYVYKFCVCDPDALFSMAFPDNRPFLLKAESECHLSEEDT  
LPLTHFEDSPAYLLDMDRCSSLPYAEGFAY

>sp|Q9NYK6|EURL\_HUMAN Protein EURL homolog OS=Homo sapiens GN=EURL PE=2 SV=3

MNEEQFVNIDLNDNICSVCKLGTDKETLSFCHICFELNIEGVPKSDDLHTKSLRGHKD  
CFEKYHLIANQGCPRSKLSKSTYEEVKTILSKKINWIVQYAQNKDLDSDSECSKNPQHHL  
FNFRHKPEEKLLPQFDSQVPKYSKAWIDGSAGGISNCTQRILEQRENTDFGLSMLQDSGA  
TLCRNSVLWPHSHNQAQKKEETISSPEANVQTQHPHYSREELNSMTLGEVEQLNAKLLQQ  
IQEVFEELTHQVQEKDSLASQLHVRHVAIEQLLKNSCKLPCLQVGRGMKSHLPINN

>sp|Q03112|EVII\_HUMAN MDS1 and EVI1 complex locus protein EVI1 OS=Homo sapiens GN=MECOM  
PE=1 SV=2

MKSEDYPHETMAPDIHEERQYRCEDCDQLFESKAELADHQQFPCSTPHSAFSMVEEDFQQ  
KLESENDLQEIHTECKECDQVFPDLQSLKHMLSHTEEREYKCDQCPKAFNWKSNLIR  
HQMSHDSGKHYECENCAKVFTDPSNLQRHRSQHVGARAHACPECGKTFATSSGLKQHKH  
IHSSVKPFICEVCHKSYTFNSLNRHMRMHADCRITQICKDCGQMFSTTSSLNKHRRFCE  
GKNHFAAGGFFGGISLPGTPAMDKTSMVNMSHANPLADYFGANRHPAGLTFPTAPGFS  
FSFPGLFPSGLYHRPPLIPASSPVKGLSSTEQTNKSQSPLMTHPQILPATQDILKALSKH  
PSVGDNKPVELQPERSSEERPFEKISDQSESSDLDDVSTPSGSDLETSGSDLESIDIESD  
KEKFKENGKMFKDKVSPQLNLASINNKEYSNHSIFSPSLEEQTAVSGAVNDSIKAIASI  
AEKYFGSTGLVGLQDKKVGALPYPSMFPLPFFPAFSQSMYPFPDRDLRSLPLKMEPQSPG

EVKKLQKGSSSESPFDLTTKRKDEKPLTPVPSKPPVTPATSQDQPLDLSMGSRSRASGTKL  
TEPRKNHVFGGKKGSNVESRPASDGSQGHARPTPFMDPIYRVEKRKLTDPLEALKEKYL  
RPSGFLFHPQFQLPDQRTWMSAIENMAEKLESFSALKPEASELLQSVSPMFNFRAPPNA  
LPENLLRK GKERYTCRYCGKIFPRSANLTRHLRTHTGEQPYRCKYCDRSFSSISNLQRHV  
RNIHNKEKPFKCHLCDRCFGQQTNLDRHLKKHENGMSGTATSSPHSELESTGAILDDKE  
DAYFTEIRNFIGNSNHGSQSPRNVEERMNGSHFKDEKALVTSQNSDLLDDEEVEDEVLLD  
EEDEDNDITGKTGKEPVTSNLHEGNPEDDYEETSALEMSCKTSPVRYKEEYKSGLSALD  
HIRHFTDSLKMRKMEDNQYSEAEISSFSTSHVPEELKQPLHRKSKSQAYAMMLSLSDKES  
LHSTSHSSSNVHSMARAAAESSAISHSV

>sp|Q9UI08|EVL\_HUMAN Ena/VASP-like protein OS=Homo sapiens GN=EVL PE=1 SV=2

MSEQSICQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHTASNTFRVVGKLDQDQV  
INYSIVKGLKYNQATPTFHQRDARQVYGLNFASKEEATTFSNAMLFALNIMNSQEGGPS  
SQRQVQNGPSPDEMDIQRQVMEQHQQQRQESLERRTSATGPILPPGHPSSAASAPVSCS  
GPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGLAAAIAGAKLRRVQRPED  
ASGSSPSGTSKSDANRASSGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDESQMED  
PSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQP  
HSRMKPAGSVNDMALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQELSGISTT

>sp|Q17RC7|EX3L4\_HUMAN Exocyst complex component 3-like protein 4 OS=Homo sapiens  
GN=EXOC3L4 PE=1 SV=2

MPSPQTDTPGPELQSPKEAEEPQTPAQGSRRTSSRKEPNAHRKDGTGLGLSLRQAFSRA  
SQRALTQVSKEDTGLFRRSSCSLFRSFRQALNDGPATGHSQATPEVPSGVMNGVSQQAST  
GAASEELKPEAEGKSVADLITERQLLAFAFEQLLRLETLLVAEKASRTFEQDPTAFARRAM  
DVCLLYDGLAAEIGAIVRETLDSDGVDAALAEARVVSAAAAHPSPPDDGDFLRTPRR  
WRQHWEEAVRRSAQERVRRPGAGWAFGEAGASGLAQLLAELGGLVRRDLQKVRQEVQPA  
YAAAGFPaweVYLRAFHSAVAQRLQELARDARGCEQLYILLDWAANVYGSPDFLGAPGLA  
LPAEPLPPLLAPDVWARLESYTSFLEAKIASCFDSILQLEQSHWAAAEPVQLGLYQA  
PLSMDVHMLVAEHVKAAGAI SAELEATTLRICTRALGLFVPRFEKAFLASEAVSEPHLGA  
YINACEELRTSLLSRFPGTQEELEKPLVTATCSFQKHLLQGLQRELQPLFRVVCTRDWLT  
QDWLHPLMDKVVTFAHQLRVARPRAQETLQEVHRFVVREYLARALRPRERFRGMERMHG  
SQKMSLDAQAISDTFQGLGSEATWLDQAIQCVAEILGETYKDDIQRHLETLIRSYPDIRR  
DHILAILALRRLGRQRNQHLQHTQDLLRAAAGAAGAEAPRGRVLFEEIKVPSAMAVLIT  
CV

>sp|Q96A65|EXOC4\_HUMAN Exocyst complex component 4 OS=Homo sapiens GN=EXOC4 PE=1 SV=1

MAAEAAGGKYRSTVSKSKDPSGLLISVIRTLSTSDVEDRENEKGRLEEAYEKCDRLDE  
LIVQHYTELTTAIRTYQSITERITNSRNKIKQVKENLLSCKMLLHCKRDELRLWIEGIE  
HKHVLNLLDEIENIKQVPQKLEQCMASKHYLSATDMLVSAVESLEGPLLQVEGLSDLRLE  
LHSKKMNHLVLIDELHRHLYIKSTSRVVQRNKEKGKISSLVKDASVPLIDVTNLTPTPRK  
FLDTSHYSTAGSSSVREINLQDIKEDLELDPEENSTLFMGILIKGLAKLKKIPETVKAI  
ERLEQELKQIVKRSTTQVADSGYQRGENVTVENQPRLLLELLELLFDKFNAAAHSVVL  
GYLQDTVVTPLTQQEDIKLYDMADVWVKIQDVLQMLLTEYLDMNTRTASEPSAQLSYAS  
TGREFAAFFAKKKPQRPKNSLKFESSHAISMSAYLREQRRELYSRSGELQGGPDDNLI  
EGGGTKFVCKPGARNITVIFHPLLRFIQEIEHALGLGPAKQCPLREFLTVYIKNIFLNQV  
LAEINKIEGVTKTSDPLKILANADTMKVLGVQRPLLQSTIIVEKTVQDLLNLMHDL  
SAYSDQFLNMVCKLQEQYKDTCTAAYRGIVQSEEKLVISASWAKDDDISRLKSLPNWMNMAQ

PKQLRPKREEEEDFIRAAFGKESEVLIGNLGDKLIPPQDILRDVSDLKALANMHESLEWL  
ASRTKSAFSNLSTSQMLSPAQDSHTNTDLPPVSEQIMQTLSELAKSFQDMADRCLLVHL  
EVRVHCFHYLIPLAKEGNYAIVANVESMDYDPLVVKLNKDISAIEEAMSASLQQHKFQYI  
FEGLGHLISCILINGAQYFRRISESGIKKMCRNIFVLQQNLTNITMSREADLDFARQYYE  
MLYNTADELLNLVVDQGVKYTELEYIHALTLLHRSQTGVGELTTQNTRLQRLKEIICEQA  
AIKQATKDKKITT

>sp|Q13868|EXOS2\_HUMAN Exosome complex component RRP4 OS=Homo sapiens GN=EXOSC2 PE=1 SV=2  
MAMEMRLPVARKPLSERLGRDTKKHLVVPDITTTDTGFMRGHGYMGEEKLIASVAGSV  
ERVNKLICVKALKTRYIGEVDIVVGRITEVQKRWKVETNSRLDSVLLSSMNLPGGEL  
RRRSAEDELAMRGFLQEGDLISAEVQAVFSDGAVSLHTRSLKYGKLGQGVLVQVSPSLVK  
RQKTHFHDLPCGASVILGNNGFIWIYPTPEHKEEEAGGFIANLEPVSLADREVISRLRNC  
IISLVTQRMMLYDTSILYCYEASLPHQIKDILKPEIMEEIVMETRQRLLQEG

>sp|Q5RKV6|EXOS6\_HUMAN Exosome complex component MTR3 OS=Homo sapiens GN=EXOSC6 PE=1 SV=1  
MPGDHRRIRGPEESQPPQLYAADEEEAPGTRDPTLRPVYARAGLLSQAKGSAYLEAGGT  
KVLCAVSGPRQAEGGERGGGPAGAGGEAPAALRGRLLCDFRAPFAGRRRRAPPGCEER  
ELALALQEALPAVRLGRYPRAQLEVSALLLEDGGSALAAALTAAALALADAGVEMYDLV  
VGCGLSLAPGPAPTWLLDPTRLEEERAAAGLTVALMPVLNQVAGLLGSGEGLTESWAEA  
VRLGLEGCQRLYPVLQQSLVRAARRRGAAAQP

>sp|Q99502|EYA1\_HUMAN Eyes absent homolog 1 OS=Homo sapiens GN=EYA1 PE=1 SV=2  
MEMQDLTSPHSRLSGSSESPSGPKLGNSHINSNSMTPNGTEVKTEPMSSSETASTADGS  
LNNFSGSAIGSSSFSPRPTHQFSPPIYPSNRYPHILPTPSSQTMAAYGQTQFTTGMQQ  
ATAYATYPQPGQPYGISSYGALWAGIKTEGGLSQSQSPGQTGFLSYGTSFSTPQPGQAPY  
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>sp|Q6UXP7|F151B\_HUMAN Protein FAM151B OS=Homo sapiens GN=FAM151B PE=1 SV=2  
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KRHLKRPVWINADILPGPNGSKVIDAKPFLDTVISFFPDVTFSLGWTGWHPEKVNEGY  
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>sp|B1A188|F155A\_HUMAN Transmembrane protein FAM155A OS=Homo sapiens GN=FAM155A PE=2 SV=1  
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EAKLTRARDKEHQQQQQQQQQQQQQRRQQQQQEPSWPALLASMGESSPAAQAH  
RLLSASSSPTLPPSPGDGGGGGKGNRGKDDRGKALFLGNSAKPVWRLETCPYQGASSGQ  
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>sp|A6NWK6|F159B\_HUMAN Membrane protein FAM159B OS=Homo sapiens GN=FAM159B PE=3 SV=2  
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>sp|A1A519|F170A\_HUMAN Protein FAM170A OS=Homo sapiens GN=FAM170A PE=2 SV=1  
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>sp|A8MVW0|F1712\_HUMAN Protein FAM171A2 OS=Homo sapiens GN=FAM171A2 PE=1 SV=1  
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>sp|Q8WUF8|F172A\_HUMAN Protein FAM172A OS=Homo sapiens GN=FAM172A PE=2 SV=1  
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ELMIQREADVKNKVTAVALTDSVHNVWHQEAGKTIREWMRENCNWNVSSEPLDTSVESM  
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>sp|Q9BQD7|F173A\_HUMAN Protein FAM173A OS=Homo sapiens GN=FAM173A PE=2 SV=1  
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AGCAGSVCYRRKDLWKVSLRDCRNVSVFLAPSVLPLEDKLRTLPAGARVVSGRFLPT  
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>sp|Q15018|F175B\_HUMAN BRISC complex subunit Abro1 OS=Homo sapiens GN=FAM175B PE=1 SV=2  
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VNKLRRQITQRKNEKEQERRLQQAVLSRQMPSESLDPAFSPRMPSSGFAAEGRSTLGDAE  
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>sp|Q6P0A1|F180B\_HUMAN Protein FAM180B OS=Homo sapiens GN=FAM180B PE=2 SV=2

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>sp|Q8N9Y4|F181A\_HUMAN Protein FAM181A OS=Homo sapiens GN=FAM181A PE=2 SV=3

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>sp|Q8IYM0|F186B\_HUMAN Protein FAM186B OS=Homo sapiens GN=FAM186B PE=2 SV=2

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>sp|P78312|F193A\_HUMAN Protein FAM193A OS=Homo sapiens GN=FAM193A PE=1 SV=2

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>sp|Q6PEV8|F199X\_HUMAN Protein FAM199X OS=Homo sapiens GN=FAM199X PE=1 SV=1  
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>sp|Q6ZU69|F205A\_HUMAN Protein FAM205A OS=Homo sapiens GN=FAM205A PE=2 SV=4  
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>sp|Q658T7|F90A2\_HUMAN Putative protein FAM90A2P OS=Homo sapiens GN=FAM90A2P PE=5 SV=2

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>sp|A6NE21|F90AI\_HUMAN Putative protein FAM90A18P/FAM90A19P OS=Homo sapiens GN=FAM90A18P  
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>sp|A8MWA6|F90AM\_HUMAN Putative protein FAM90A22P OS=Homo sapiens GN=FAM90A22P PE=5 SV=1

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>sp|Q641Q2|FA21A\_HUMAN WASH complex subunit FAM21A OS=Homo sapiens GN=FAM21A PE=1 SV=3

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>sp|Q9Y4E1|FA21C\_HUMAN WASH complex subunit FAM21C OS=Homo sapiens GN=FAM21C PE=1 SV=3

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EEDSEDLFSSQSASNLKASLLPGKLPTSVSLFDDEDEEDNLFGGTAAKKQTL SLQAQRE  
EKAKASELSKKKASALLFSSDEEWNIPASQTHLASDSRSKGEPRDSGTLQSQEAKAVKKT  
SLFEEDKEDDLFAIAKDSQKKTQRVSLLFEDDVS GGS LFGSPPTSVP PATKKKETVSEA  
PPLFSDEEEKEAQLGVKSVDKKVESAKESLKFGRTDVAESEKEGLLTRSAQETVKHSDL  
FSSSPWDKGTKPRTKTVLSLFDEEEDKMEDQNI IQAPQKEVGKGC DPDAHPKSTGVFQD  
EELLFSHKLQKDNPDVDLFAGTKKTKLLEPSVGS LFGDDEDDLFSSAKSQPLVQEKKR  
VVKKDHSVNSFKNQKHPESIQGSKEKGIWKPETPQANLAINPAALLPTAASQISEVKPVL  
PELAFPSSEHRRSHGLESVPVLP GSGEAGVSFDLPAQADTLHSANKSRVKMRGKRRPQTR  
AARRLAAQESSEAE DMSVPRGPIAQWADGAISPNGHRPQLRAASGEDSTEEALAAAAAPW  
EGGPVPGVDTSPFAKSLGHSRGEADLFDSGDIFSTGTGSQSVERTKPKAKIAENPANPPV  
GGKAKSPMFALGEASSDDDLFQSAKPKPAKKTNPFP LLEDEDDLFTDQKVKKNETKSSS  
QQDVILTQDIFEDDIFATEAIKPSQKTREKEKTLESNLFDDNIDIFADLTVKPKEKSKK  
KVEAKSIFDDMD DIFSTGIQAKTTKPKSRSAQAAPEPRFEHKVSNIFDDPLNAFGGQ

>sp|Q92731|ESR2\_HUMAN Estrogen receptor beta OS=Homo sapiens GN=ESR2 PE=1 SV=2

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NVTNLEGGPGRQTTPNVLWPTPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVN

RETLKRKVSNGRCASPTVTPGSKRDAHFCVCSDYASGYHYGVWSCEGCKAFFKRSIQGH  
NDYICPATNQCTIDKNRRKSCQACRLRKCYEVGMVKCGSRRERCYRLVRRQRSADQLH  
CAGAKRSGGHAPRVRELLLDALSPEQLVLTLEAEPPHVLISRPSAPFTEASMMMSLTK  
LADKELVHMISWAKKIPGFVELSLFDQVRLLESCWMEVLMGLMWRSIDHPGKLIFAPDL  
VLDRDEGKCEGILEIFDMLLATTSRFRELKLQHKEYLCVKAMILLNSSMYPLVTATQDA  
DSSRKLALHLLNAVTDALVWVIAKSGISSQQSMRLANLLMLLSHVRHASNKGMEHLLNMK  
CKNVVPVYDLLLEMLNAHVLRGCKSSITGSECSAEDSKSKEGSQNPQSQ

>sp|000748|EST2\_HUMAN Cocaine esterase OS=Homo sapiens GN=CES2 PE=1 SV=1

MRLHRLRARLSAVACGLLLLLVRGQGQDSASPIRTTHTGQVLGSLVHVKGANAGVQTFGLG  
IPFAKPPLGPLRFAPPEPPESWSGVRDGTTHPAMCLQDLTAVESEFLSQFNMTFPSDSMS  
EDCLYLSIYTPAHSHEGSLNLPVMVWIHGALVFGMASLYDGSMMLAAENVVVVIQYRLG  
VLGFFSTGDKHATGNWGYLDQVAALRWVQQNIAHFGGNPDRVTIFGESAGGTSVSSLVVS  
PISQGLFHGAIMESGVALLPGLIASSADVISTVVANLSACDQVDSEALVGCLRGKSKEEI  
LAINKPFKMIPGVVDGVFLPRHPQELLASADFQPVPSIVGVNNNEFGWLIPKVMRIYDTQ  
KEMDREASQAALQKMLTLLMLPPTFGDLLREEYIGDNGDPQLQAQFQEMMADSMFVIPA  
LQVAHFQCSRAPVYFYEFQHQPSWLKNIRPPHMKADHGDELPFVFRSFFGGNYIKFTEEE  
EQLSRKMMKYWANFARNGNPNGEGLPHWPLFDQEEQYLQLNLQPAVGRALKAHRLQFWKK  
ALPQKIQELEEPEERHTEL

>sp|Q6NT32|EST5A\_HUMAN Carboxylesterase 5A OS=Homo sapiens GN=CES5A PE=2 SV=1

MSGNWVHPGQILIIWAIWVLAAPTCKPSAEGPQRNTRLGWIQKQVTVLGSPVPVNVFLGV  
PFAAPPLGSLRFTNPQPASPWDNLREATSYPNLCLQNSEWLLLDQHMLKVHYPKFGVSED  
CLYLNIIYAPAHADTGSKLPVLVWFPGGAFKTSASIFDGSALAAYEDLVVVVVQYRLGIF  
GFFTWDQHAPGNWAFKDQVAALSWVQKNIEFFGGDPSSVTIFGESAGAISVSSLILSPM  
AKGLFHKAIMESGVAIIPYLEAHDYEKSEDLQVVAHF CGNNASDSEALLRCLRTKPSKEL  
LTLSQKTKSFTRVVDGAFFPNEPLDLLSQKAFKAIPSIIGVNNHECGFLLPMKEAPEILS  
GSNKSALHLIQLNILHIPPYLHLVANEYFHDKHSLTEIRDSLLDLLGDVFFVVPALITA  
RYHRDAGAPVYFYEFRHRPQCFEDTKPAFVKADHADEVRFVFGGAFLKGDIVMFEGATEE  
EKLLSRKMMKYWATFARTGNPNNGNDLSLWPAYNLTEQYLQLDLNMSLGQRLKEPRVDFWT  
STIPLILSASDMLHSPLSSLTFLSLLQPFFFFCAP

>sp|Q9BSJ8|ESYT1\_HUMAN Extended synaptotagmin-1 OS=Homo sapiens GN=ESYT1 PE=1 SV=1

MERSPEGSPSPMDQPSAPSDPTDQPPAAHAKPDPGSGGQPAGPGAAGEALAVLTSFGR  
RLVLIPVYLAGAVGLSVGFVLFGALALYLGWRRVRDEKERSLRAARQLLDDEEQLTAKTL  
YMSHRELPAWVSFPDVEKAEWLNKIVAQVWPFLGQYMEKLLAETVAPAVRGSNPHLQTFT  
FTRVELGEKPLRIIGVKVHPGQRKEQILLDLNISYVGDVQIDVEVKYFCKAGVKGMQLH  
GVLRVILEPLIGDLPFVGAVSMFFIRRPTLDINWTGMTNLLDIPGLSSLSDTMIMDSIAA  
FLVLNRLLVPLVPDLQDVAQLRSPLPRGIIRIHLLAARGLSSKDKYVKGLIEGKSDPYA  
LVRLGTQTFCSRVIDEELNPQWGETYEVVMHEVPGQIEIEVEVFDKDPDKDDFLGRMKLDV  
GKVLQASVLDDWFPLQGGQGQVHLRLEWLSLLSDAEKLEQVLQWNWGVSSRPDPPSAAIL  
VVYLDRAQDLPLKKNKEPNPMVQLSIQDVTQESKAVYSTNCPVWEEAFRFFLQDPQSQE  
LDVQVKDDSRALTALTLPLARLLTAPELILDQWFQLSSSGPN SRLYMKLVMRIYLD  
SEICFPTVPGCPGAWDVDSNPQRGSSVDAPPRPCHTTPDSQFGTEHVLRIHVLEAQDLI  
AKDRFLGGLVKGSDPYVKLKLAGRSFRSHVVREDLNPRWNEVFEVITSVPGQELEVEV  
FDKDLDDKDDFLGRCKVRLTTVLNSGFLDEWLTLEDVPSGRHLRLRLRTPRPTAAELEE  
LQVNSLIQTQKSAELAAALLSIYMERAEPLRKGTKHLSPYATLTVGDSSHKTKTISQT

SAPVWDESASFLIRKPHTESLELQVRGEGTVLGSLSLPLSELLVADQLCLDRWFTLSSG  
QGQVLLRAQLGILVSQHSGVEAHSHSYSHSSSSSLSEEPELSGGPPHITSSAPELRQRLTH  
VDSPLEAPAGPLGQVKLTWYSEERKLVSIVHGCRSLRQNGRDPDPYVSLLLLPDKNR  
GTKRRTSQKKRTLSPEFNERFEWELPLDEAQRRLKLDVSVKSNSSFMSRERELLGKVQLDL  
AETDLSQGVARWYDLMDNKDKGSS

>sp|P38117|ETFB\_HUMAN Electron transfer flavoprotein subunit beta OS=Homo sapiens GN=ETFB  
PE=1 SV=3

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKE  
VIAVSCGPAQCQETIRTALAMGADRGIHVEVPPAEERLGPLQVARVLAKLAEKEKVDLV  
LLGKQAIDDDCNQTGQMTAGFLDWPQGTFASQVTLEGDCLKVEREIDGGLETLRKLPAV  
VTADLRLENPYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVISVEDPPQRTAGVKVE  
TTEDLVAKLKEIGRI

>sp|O95571|ETHE1\_HUMAN Persulfide dioxygenase ETHE1, mitochondrial OS=Homo sapiens  
GN=ETHE1 PE=1 SV=2

MAEAVLRVARRQLSQRGGSGAPILLRQMFEPVSCTFTYLLGDRESREAVLIDPVLETAPR  
DAQLIKELGLRLLYAVNTHCHADHITGSGLLRSLPGCQSVISRLSGAQADLHIEDGDSI  
RFGRFALETRASPGHTPGCVTFVLNDHSMFTGDALLIRGCGRTDFQQGCAKTLYHSVHE  
KIFTLPGDCLIYPAHDYHGFTVSTVEEERTLNPRLTSCSEEFVKIMGNLNLKPQQIDFA  
VPANMRCGVQTPTA

>sp|O00321|ETV2\_HUMAN ETS translocation variant 2 OS=Homo sapiens GN=ETV2 PE=2 SV=2

MDLWNWDEASPQEVPPGNKLAGLEGAKLGFCFPLALQGDTPATAETCWKGTSSSLASF  
PQLDWGSALLHPEVPWGAEPDSQALPWSGDWTDMACTAWDSWSGASQTLGPAPLPGPIIP  
AAGSEGAAGQNCVPVAGEATSWSRAQAAGSNTSWDCSVGPDGDTYWGSGLGGEPRDCTI  
SWGPGAPDCTTSWNPGLHAGGTTSLKRYQSSALTVCEPSPQSDRASLARCPKTNHRGP  
IQLWQFLELLHDGARSSCIRWTGNSREFQLCDPKEVARLWGERKRPKMNYEKLRLR  
YYYRRDIVRKSGGRKYTYRFGGRVPSLAYPDCAGGGRGAETQ

>sp|O00471|EXOC5\_HUMAN Exocyst complex component 5 OS=Homo sapiens GN=EXOC5 PE=1 SV=1

MATTAELFEFPVADHEYIERLVWRTPGGSGRGPEAFDPKRLLEEFVNHQELQIMDERI  
QRKVEKLEQQCQKEAKEFAKKVQELQKSNQVAFQHFQELDEHISYVATKVCHLGDQLEGV  
NTPRQRAVEAQKLMKYFNEFLDGELKSDVFTNSEKIKEAADIQKLHLIAQELPFDRFSE  
VKSKIASKYHDECQLIQEFTSAQRREISRMREVAAVLLHFKGYSHCVDVYIKQCQEGA  
YLRNDIFEDAGILCQRVNVKQVGDIFSNPETVLAKLIQNVFEIKLQSFVKEQLEECRKSDA  
EQYLNLYDLYTRTTNLSSKLMFNLGTDKQTFLSKLKSIKIFISYLENYIEVETGYLKS  
SAMILQRYYSKNHQKRSIGTGGIQDLKERIRQRTNLPLGPSIDTHGETFLSQEVVNNL  
QETKQAFERCHRLSDPSDLPRNAFRIFTILVEFLCIEHIDYALETGLAGIPSSDSRNANL  
YFLDVVQQANTIFHLFDKQFNDHMLPLISSPKLSECLQKKKEIEQMEMKLDTGIDRTL  
NCMIGQMKHILAAEQKKTDFKPEDENNVLIQYTNACVKVCAYVRKQVEKIKNSMDGKNVD  
TVLMELGVRFHRLIYEHLQQYSYSCMGMLAICDVAEYRCKAKDFKIPMVLHLFDLHAL  
CNLLVVAPDNLKQVCSGEQLANLDKNILHSFVQLRADYRSARLARHFS

>sp|Q96B26|EXOS8\_HUMAN Exosome complex component RRP43 OS=Homo sapiens GN=EXOSC8 PE=1  
SV=1

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GVKAEFAAPSTDAPDKGYVVPNVLDLPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQ  
KEDLCISPGKLVWVLYCDLICLDYDGNILDACTFALLAALKNVQLPEVTINEETALAEVN

LKKKSYLNIRTHPVATSFVFDLLIVDPTGEEHLATGTLTIVMDEEGKLCCLHKPGG  
SGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

>sp|Q92935|EXTL1\_HUMAN Exostosin-like 1 OS=Homo sapiens GN=EXTL1 PE=2 SV=2

MQSWRRRKSLWLALSASWLLLVLGGFSLRLALPPRPRPGASQGWPRWLD AELLQSFSQ  
PGELPEDAVSPPQAPHGGSCNWESCFDTSKCRGDGLKVFPVAVGTISETHRRILASIEG  
SRFYTFSPAGACLLLLSLDAQTGECSSMPLQWNRGRNHLVRLHPAPCPRTFQLGQAMV  
AEASPTVDSFRPGFDVALPFLPEAHPLRGGAPGQLRQHSPQPGVALLALEEERG GWRTAD  
TGSSACPWDGRCEQDPGPGQTQRQETLPNATFCLISGHRPEAASRFLQALQAGCIPVLLS  
PRWELPFSEVIDWTKAAIVADERLPLQVLAALQEMSPARVLALRQQTQFLWDAYFSSVEK  
VIHTTLEVIQDRIFGTSAHPSLLWNSPPGALLALSTFSTSPQDFPFYYLQQGSRPEGRFS  
ALIWVGPPGQPPLKLIQAVAGSQHCAQILVLSNERPLPSRWPETAVPLTVIDGHRKVSD  
RFYPYSTIRTDAILSLDARSSLTSEVDFAFVLVWQSFPERMVGFLTSSHFWDEAHGGWGY  
TAERTNEFSMVLTTAAFYHRYHTLFTHSLPKALRTLAD EAPTCVDVLMNFIVA AVTKLP  
PIKVYPYGKQRQEAPLAPGGPGPRPKPPAPAPDCINQIAAAF GHMPLLSRLRLDPVLFK  
DPVSVQRKKYRSLEKP

>sp|000167|EYA2\_HUMAN Eyes absent homolog 2 OS=Homo sapiens GN=EYA2 PE=1 SV=2

MVELVISPSLTVNSDCLDKLKFNRADA AVWTLSDRQGITSAPLRVSQ LFSRSCPRVLPR  
QPSTAMAAYGQTQYSAGIQATPYTAYPPPAQAYGIPSYSIKTEDSLNHSPGQSGFLSYG  
SSFSTSP TGQSPYTYQM HGTTGFYQGGNGLGNAAGFGSVHQDYPSPGFPQSQYPQYYGS  
SYNPPYVPASSICPSPLSTSTYVLQEASHNVPNQSS ESLAGEYNTHNGPSTPAKEGDTDR  
PHRASDGKLRGRSKRSSDPSPAGDNEIERVFVWDLDETI IIFHSLLTGTFASRYGKDTT  
SVRIGLMMEEMIFNLADTHLFFNDLED CDQIHVDDVSSDDNGQDLSTYNFSADGFHSSAP  
GANLCLGSGVHGVDWMRKLAFRYRRVKEMYNTYKNNVGGLIGTPKRETWLQLRAELEAL  
TDLWLTHSLKALNLINSRPNVNLVTTTQLIPALAKVLLYGLGSVFPIENIYSATKTGK  
ESCFERIMQRFGRKAVYVVIGDVEEEQGA KKHNPFWRISCHADLEALRHAELEYL

>sp|Q96PZ2|F111A\_HUMAN Protein FAM111A OS=Homo sapiens GN=FAM111A PE=1 SV=2

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HQQEMLVRGTEGIKEYINLG MPLSCFPEGQV VITFSQSKSKQKEDNHIFGRQDKASTE  
CVKFYIHAIGIGCKRRIVKCGKLHKKGRKLCVYAFKGETIKDALCKDGRFLSFLENDW  
KLIENNDTILESTQPVDELEGRYFQVEVEKRMVPSAAASQNPESKRNTCVLREQIVAQY  
PSLKRESEKIIENFKKKMKVKNGETLFELHRTTFGKVTKNSSIKVVKLLVRLSDSVGYL  
FWD SATTG YATCFVFKGLFILT CRHVIDSIVGDGIEPSKWATIIGQCVRVTFGYEELKDK  
ETNYFFVEPWFEIHNEELD YAVLKLKENGQQVPMELYNGITPVPLSGLIHIIGHPYGEKK  
QIDACAVIPQGGRAKKCQERVQSKKAESPEYVHMYTQRSFQKIVHNPDVITYDTEFFFGA  
SGSPVFD SKGSLVAMHAAGFAYTYQNETRSII EFGSTMESILLDIKQRHKPWYEEVFVNQ  
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>sp|Q96EK7|F120B\_HUMAN Constitutive coactivator of peroxisome proliferator-activated  
receptor gamma OS=Homo sapiens GN=FAM120B PE=1 SV=1

MGVRGLQGFGVSTCPHICTVNFKELAEHHRSKYPGCTPTIVVDAMCCLRYWYTPESWIC  
GGQWREYFSALRDFVKTF TAAGIKLIFFFDGMVEQDKRDEWVKRRLKNNREISRIFHYIK  
SHKEQPGRNMFFIPSGLAVFTRFALKTLGQETLCSLQ EADYEVASYGLQHNCLGILGEDT  
DYL IYDTCPYFSISELCLESLDTVMLCREKLCESLGLCVADLPLLACLLGNDI IPEGMFE  
SFRYKCLSSYTSVKENFDKKGNIILAVSDHISKVLYLYQGEKKLEEILPLGPNKALFYKG

MASYLLPGQKSPWFFQKPKGVITLTKQVISTSSDAESREEVPMCSDAESRQEVPMCTGPE  
SRREVPVYTDSEPRQEVPMCSDEPRQEVPTCTGPESRREVPMCSDEPRQEVPMCTGPE  
ARQEVPMYTDSEPRQEVPMYTDSEPRQEVPMYTGSEPRQEVPMYTGPE  
SRQEVLRITDPESRQEIMCTGHESKQEVPICTDPIISKQEDSMCTHAEINQKLPVATDFEF  
KLEALMCTNPEIKQEDPTNVGPEVKQQVTMVSDTEILKVARTHVVQAESYLVYNIMSSGE  
IECSNTLEDELQALPSQAFIYRPIRQVYSLLEDQDVTSTCLAVKEWFVYPGNPLRH  
PDLVRPLQMTIPGGTPSLKILWLNQEPEIQVRRDLTLACFNLSSSREELQAVESPFQAL  
CCLLIYLFVQVDTLCLEDLHAFIAQALCLQGKSTSQLVNLQPDYINPRAVQLGSLLVRGL  
TTLVLVNSACGFPWKTSDFMPWNVFDGKLFHQKYLQSEKGYAVEVLLEQNRSLTKFHNL  
KAVVCKACMKENRRITGRAHWGSHHAGRWGRQGSSYHRTGSGYSRSSQGQPWRDQGPGRSR  
QYEHQWRRY

>sp|A6ZKI3|F127A\_HUMAN Protein FAM127A OS=Homo sapiens GN=FAM127A PE=1 SV=1  
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>sp|Q96AQ9|F131C\_HUMAN Protein FAM131C OS=Homo sapiens GN=FAM131C PE=1 SV=2  
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FQTTNGYLSDSRSRPGNYNVAALATSSLVGVVQSIKDHIKTAMARGRVAHLIEWKGWS  
AQPAGWELSPAEDHYCCLPDELREARFAAGVAEQFAITEATLSAWSSLDDEELHPENSP  
QGIVQLQDLESIYLDLPSGPSQDLSLQAFSSPSPSPDSCSPSEPPSTAGIPQPPSPE  
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>sp|P00488|F13A\_HUMAN Coagulation factor XIII A chain OS=Homo sapiens GN=F13A1 PE=1 SV=4  
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NKVDHHTDKYENKLIIVRRGQSFYVQIDFSRPYDPRDLFRVEYVIGRYPQENKGTIIPV  
PIVSELQSGKWGAKIVMREDRSVRLSIQSSPKCIVGKFRMYAVWTPYGLRTSRNPETD  
TYILFNPWCEDDAVYLDNEKEREYVLDIGVIFYGEVNDIKTRSWSYGQFEDGILDTCL  
YVMDRAQMDLSGRGNPIKVS RVGSAMVNAKDDEGVLVGSWDNIYAYGVPPSAWTGSVDIL  
LEYRSENVPVRYGQCWVFAGVFNTFLRCLGIPARIVTNYFSAHDNDANLQMDIFLEEDGN  
VNSKLTKDSVWNYHCWNEAWMTRPDLVPGFGGWQAVDSTPQENS DGMYRCGPASVQAIKH  
GHVCFQFDAPFVFAEVNSDLIYITAKKDGHVVENVDATHIGKLIVTKQIGGDGMMDITD  
TYKFQEGQEEERLALETALMYGAKKPLNTEGVMKSRSNVDMDFEVENAVLGKDFKLSITF  
RNNSHNRYTITAYLSANITFYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEYMGQLL  
EQASLHFFVTARINETRDVLAKQKSTVLTIPEIIKVRGTQVVGSDMTVTVQFTNPLKET  
LRNVVWHL DGPVTRPMKKMFREIRPNSTVQWEEVCRPWVSGHRKLIASMSDSL RHVYG  
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>sp|Q6UX46|F150B\_HUMAN Protein FAM150B OS=Homo sapiens GN=FAM150B PE=1 SV=2  
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>sp|Q3B820|F161A\_HUMAN Protein FAM161A OS=Homo sapiens GN=FAM161A PE=1 SV=2  
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SADLNTSFGVDEHAPISYEDFVNFPDIHHSNEEYFKKVEELKAAHIETMAKLEKMYQDK  
LHLKEVQPVVIREDSLSDSSRSVSEKNSYHPVSLMTSFSEPDLGQSSSLYVSSSEELPN  
LEKEYPRKNRMPTYAKELINNMWTDFCVEDYIRCKDTGFHAAEKRRKKRKEWVPTITVPE  
PFQMMIREQKKKEESMKS KSDIEMVHKALKKQEEDPEYKKKFRANPVPASVFLPLYHDLV

KQKEERRRSLKEKSKEALLASQKPFKFIAREEQKRAAREKQLRDFLKYYYYKKTNRFKARPI  
PRSTYGSTTNDKLKEEELYNRLRTQLRAQEHLQNSSPLPCRSACGCRNPRCPEQAVKLKC  
KHKVRCPTPDFEDLPERYQKHLSEHKSPKLLTVCKPFDLHASPHASIKREKILADIEADE  
ENLKETRWPYLSRRKSPVRCAGVNPVPCNCNPPVPTVSSRGREQAVRKSEKERMREYQR  
ELEEREELKKRPLLFERVAQKNARMAAEKHYSNTLKALGISDEFVSKKGQSGKVLEYFN  
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>sp|POC2L3|F163B\_HUMAN Protein FAM163B OS=Homo sapiens GN=FAM163B PE=2 SV=1

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NRNLVLTNGPALYPTASTSFSQKSPQARALCRSCSHCEPPTFFLQEPPEEEEDVLNGGER  
VLYKSVSQEDVELPPGGFGGLQALNPRLSAMREAFARSRSTSDV

>sp|P09467|F16P1\_HUMAN Fructose-1,6-bisphosphatase 1 OS=Homo sapiens GN=FBP1 PE=1 SV=5

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AGSTNVTGDQVKKLDVLSNDLVMNMLKSSFATCVLVSEEDKHAIIVEPEKRGKYVVC FDP  
LDGSSNIDCLVSVGTIFGIYRKSTDEPSEKDALQGRNLVAAGYALYGSATMLVLAMDC  
GVNCFMLDPAIGEFILVDKDKIKKKGKIYSLNEGYARDFDPAVTEYIQRKKFPD NSAP  
YGARYVGSMAVDVHRTL VYGGIFLYPANKKSPNGKLRLLYECNPMAYVMEKAGGMATTGK  
EAVLDVIPTDIHQRAPVILGSPDDVLEFLKVYEKHS AQ

>sp|A6NMN3|F170B\_HUMAN Protein FAM170B OS=Homo sapiens GN=FAM170B PE=1 SV=1

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FAARDRGRMDWSSSPSESSEYQSYSQYQSCCSCMCDEDNAAPQSVCAFYTHVQTVRGVA  
VAWETEAGFEPVTRKPRIHEAQFIKRQRWNGSSFEMASNTDMRWDLEACKSNCSPEPEDI  
DLLECCLQELREPPDWLVT TNYGVRVACCRVLP SL DALLEHAHQHIREGFSCQIFFEEM  
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>sp|Q6P995|F171B\_HUMAN Protein FAM171B OS=Homo sapiens GN=FAM171B PE=2 SV=3

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GAVLIKVPYKLGSLTIIAYKDG YVLTPLPWKTRRMPIYSSVTLSLFPQSQANIWLFEDT  
VLITGKLADAKSQPSVQFSKALIKLPDNNHISNVTGYLTVLQQFLKVDNFLHTTGITLNK  
PGFENIELTPLAICVKIYSGGKELKVNGSIQVSLPLLRLNDISAGDRIPAWTFDMNTGA  
WVNHGRGMVKEHNNHLIWTYDAPHLGYWIAAPLPGTRGSGINEDSKDITAYHTVFLTAIL  
GGTIVIVIGFFAVLLCYCRDKCGTPQKRERNITKLEVLKRDQTTSTTHINHISTVKVALK  
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PTQSLEPNVGSQKPKHINNLSLGLDAQDEKRYLTGNEEAYGRSHIPEQLMHIYSQPIA  
ILQTSDLFSTPEQLHTAKSATLPRKGQLVYGQLMEPVNRENFTQTLPKMPIHSHAQPPDA  
REEDIILEGQQLPSQASDWSRYSSLSLESVSVPGTLNEAVVMT PFSSELQGI SEQTLL E  
LSKGKPSPPHRAWFVSLDGKPAQVRHSFIDLKKGKRTQSN DTSLD SGVDMNELHSSRKL  
EREKTFIKSMHQPKILYLEDLDLSSSESGTTVCSPEDPALRHILDGGSGVIMEHPGEESP  
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>sp|Q96PV7|F193B\_HUMAN Protein FAM193B OS=Homo sapiens GN=FAM193B PE=1 SV=3

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DEPNLVPGPQVPPASSQPVQTCCLLCHRRERKGWEEGPSQNGLVLQGEKLPPDFMPKLVKN  
LLGEMPLWVCQSCRKSMEEDERQTGREHAVAI SL SHTSCKSQSCGDDSHSSSSSSSSSS  
SSSSSCPGNSGDWDPSSFLSAHKLSGLWNSPHSSGAMPGSSLGSPPTIPGEAFPVSEHHQ  
HSDLTAPPNSPTGHPQPASLIPSHPSFGSPHPHLLPTTPAAPFPAQASECPVAAATA



PHTPGPCQSSHL PSTSMPLLMPPPFSGCSHPCSGHCGGHC SGPLPPSSQPLPSTHRD  
PGCKGHKFAHSGLACQLPQPCEADEGLGEEEDSSSERSSCTSSSTHQRDGKFCDCCYCEF  
FGHNAPPAAPT SRNYTEIREKLSRLTRRKEELPMKGGTLGGIPGEP AVDHRDVDELLEF  
INSTEPKVPNSARA AKRARHKLKKKEKEKAQLAAEALKQANRVSGSREPRPARERLLEWP  
DRELD RVNSFLSSRLQEIKNTVKDSIRASFVCELSMDSNGFSKEGAAEPEPQSLPPSNL  
SGSSEQQPDINLDLSPLTLGSPQNHTLQAPGEPAPPWAEMRGPHPPWTEVRGPPPGIVPE  
NGLVRRRLNTV PNLSRVIWVKTPKPGYPSSEEPSSKEVPSCQELPEPVSSGGKPQKGKRQ  
GSQAKKSEASPAPRPASLEVPSAKGQVAGPKQPGRVLELPKVGSCAEAGEGSRGSRPGP  
GWAGSPKTEKEKGSSWRNWPGEAKARPQEQESVQPSGPARPQSLPQKGSRRRSRNKQEK  
PASSLDDVFLPKDMDGVEMDETREVEYFKRFCLDSAKQTRQK VAVNWTNFSLKKTTPST  
AQ

>sp|Q8N3H0|F19A2\_HUMAN Protein FAM19A2 OS=Homo sapiens GN=FAM19A2 PE=2 SV=1  
MSKRYLQKATKGKLLIIIFIVTLWGKVVSSANHHKAHHVKTGTCEVVALHRCCNKNKIEE  
RSQTVKCSCFPGQVAGTTAAAPSCVDASIVEQKWWCHMQPCLEGECKVLPDRKGWSCSS  
GNKVKTTTRVTH

>sp|Q5JX69|F209B\_HUMAN Protein FAM209B OS=Homo sapiens GN=FAM209B PE=2 SV=1  
MWTLKSSLVLLLCLTCSYAFMFSSLRQKTSEPQGVPCGEHFRIRQNLPEHTQGWLGSKW  
LWLLFAVVPFVILQCQRDSEKNKEQSPGLRGFPFRTPLKKNQNASLYKDCVFNTLNELE  
VELLK FVSEVQNLKGAMATGSGSNLKLRRSEMPADPYHTICKIWGEESS

>sp|Q96ND0|F210A\_HUMAN Protein FAM210A OS=Homo sapiens GN=FAM210A PE=1 SV=2  
MQWNPRTVSRLARRTCLEPHNAGLFGHCQNVKGPLLLYNAESKVVLVQGPQKQWLHLSA  
AQCVAKERRPLDAHPPQPGVLRHKQKGQHVSFRRVFSSSATAQGTPEKKEEPDPLQDKSI  
SLYQRFKKTFRQYGVLPVHLITSGVWFGTFYYAALKGVNVVPFLELIGLPDSVVSILK  
NSQSGNALTAYALFKIATPARYTVTLGGTSVTVKYLRSHGYMSTPPPKEYLQDRMEETK  
ELITEKMEETKDRLTEKLQETKEKVSFKKKVE

>sp|H3BQW9|F229A\_HUMAN Protein FAM229A OS=Homo sapiens GN=FAM229A PE=3 SV=1  
MLPSSTPGPGHATETCPAPGPERSPAARAPAAASSLGPVSTAGRAPRLDMSAQEPPQG  
RRFPIEAGDSRGLAAAPESQDSPEAVATEHNPVRPLRRCPGCHCLTLLHVPIDVYLAMGG  
SPRARAT

>sp|Q6ZW35|F231D\_HUMAN Protein FAM231D OS=Homo sapiens GN=FAM231D PE=2 SV=2  
MGSSKGLWKEKPSAHTSECFSTTACPVACILLVWNSQTPAGLQSLCTGRHPSLSARAQWA  
GPRASREEGTFWTEPVGQERRLIRSGSSQNESQEDQGADLISHEGLKADNQRESSTWANE  
VEDRRPQCTSALNLTPSHLHPPHPLTTFFRNVIGIKIPGLVAMGGTVA

>sp|Q9H0X4|F234A\_HUMAN Protein FAM234A OS=Homo sapiens GN=FAM234A PE=1 SV=1  
MLDHDLEAEIHPLKNEERKSQENLGNPSKNEDNVKSAPPQSRLSRCRAAAFFLSLFLCL  
FVVVVSFVIPCPRPASQRMWRIDYSAVIYDFLAVDDINGDRIQDVLFYKNTNSSNN  
FSRSCVDEGFSSPCTFAAAVSGANGSTLWERPVAQDVALVECAVPQPRGSEAPSACILVG  
RPSSFIAVNLFTGETLWNHSSSFSGNASILSPLLQVPDVG DGAPDLLVLTQEREEVSGH  
LYSGSTGHQIGLRGSLGVDGESGFLHVTRTGAHYILFPCASSLCGCSVKGLYEKVTGSG  
GPFKSDPHWESMLNATRRMLSHSSGAVRYLMHVPGNAGADVLLVGSEAFVLLDGQELTP  
RWTPKAAHVLRKPIFGRYKPD TLAVAVENG TGTDRIQLFDLGTGAVLCSLALPSLPGGP  
LSASLPTADHRSAFFFWGLHELGSTSETETGEARHSLYMFHPTLPRVLELANVSTHIVA  
FDAVLFEPSRHAAYILLTG PADSEAPGLVSVIKHKVRDLVPSSRVRLGEGGPDSDQAIR  
DRFSRLRYQSEA

>sp|060825|F262\_HUMAN 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2 OS=Homo sapiens GN=PFKFB2 PE=1 SV=2

MSGASSEQNNNSYETKTPNLRMSEKKCSWASYMTNSPTLIVMIGLPARGKTYVSKKLTR  
YLNWIGVPTKVFNLGVYREAVKSYKSYDFFRHDNEEAMKIRKQCALVALEDVKAYLTEE  
NGQIAVF DATNTT RERRDMILNFAEQNSFKVFFVESVCDDPDVIAANILEVKVSSPDYPE  
RNRENVMEFLKRIECYKVTYRPLDPDNYDKDLSFIKVINVGQRFLVNRVQDYIQSKIVY  
YLMNIHVQPRTIYLCRHGESEFNLLGKIGGDSGLSVRGKQFAQALRKFLLEEQEITDLKVV  
TSQLKRTIQTAE SLGVPYEQWKILNEIDAGVCEEMTYAEIEKRYPEEFALRDQEKYLYRY  
PGGESYQDLVQRLEPVI MELERQGNVLVISHQAVMRCLLAYFLDKGADELPYLRCP LHTI  
FKLTPVAYGCKVETIKLNVEAVNTHRDKPTNNFPKNQTPVRMRRNSFTPLSSSNTIRRPR  
NYSVGSRPLKPLSPLRAQDMQEGAD

>sp|Q16877|F264\_HUMAN 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4 OS=Homo sapiens GN=PFKFB4 PE=2 SV=6

MASPRELTQNPLKKIWPYSNGR PALHACQRGVCMTNCPTLIVMVGLPARGKTYISKKLT  
RYLNWIGVPTREFNVGQYRRDVVKTYKSFEFFLPDNEEGLKIRKQCALAALRDVRRFLSE  
EGGHVAVF DATNTT RERRATIFNFG EQNGYKTF FVESICVDPEVIAANIVQVKLGSPDYV  
NRDSDEATEDFMRIECYENSYESLDEDLDRDLSYIKIMDVGQSYVVNRVADHIQSRIVY  
YLMNIHVTPRSIYLCRHGESENLKGRIGGDPGLSPRGREFAKSLAQFISDQNIKDLKVV  
TSQMKRTIQTAEALGVPYEQWKVLNEIDAGVCEEMTYEEIQDNYPLEFALRDQDKYRYRY  
PKGESYEDLVQRLEPVI MELERQENVLVICHQAVMRCLLAYFLDKAAEQLPYLKCP LHTV  
LKLTPVAYGCKVESIFLNVA AVNTHDRPQNVDISRPPEEALVTVPAHQ

>sp|Q8N5Q1|F71E2\_HUMAN Protein FAM71E2 OS=Homo sapiens GN=FAM71E2 PE=2 SV=3

MIWLRNRRCLEPLQGT PKWVPVLGELQKTLQKGEYLPLRPLPMFESNFVQVTHQGGPVFV  
NHRTNRLAMGVAASLPGLVLPDILLIGQPAEDRDCSGLVLRMIPLDLVHLCVHDL SAWR  
LKLRLVSGRQYYLALDAPDNEVGFLFHCWVRLINLLQEPAPTWTPTTRTAPLDMPLAEA  
PASTWHLQDQPI SRHAVRVAERNFPHKTVA AQRQRKAKALKRSFKSQAVGDSVPLIWSQL  
EHADVRKKPAEKKSHSDPRPDRHTQTIRLPEKTSITTWTIFSIISS TANQTQSSPKACTS  
ASDEATGQGHVVESPSHCVSADSPDGFFLGSCSSLDPCLWHQDTE DLMDSGGSTLSSAAS  
GLAPYPPAACLSTPYSSIPRGREKAGPMGSHQGP GPPPCQKAPSGLVTSCKAPFLVDQSQ  
KLPAVPASSWKPPGLAPPQKAPAASAPPRKAPAVPAPSQKAPAVPAPSQKAPAIPAPSR  
KASAASASPRKASAVPAPPQKTPPPSQKAPSVTIPQKAVSPTAPKKKSLLL PAPSQKAL  
PTSPTEYQMALSPPASRGKLP GDFDLPTGIPGRAVLERSQSGGKPEPVVTVRTQETD VV  
EMTTQAKSPESPFTVTKKESDILISQTKEVTLEAFRGQGKLEDWAHWAKLEERSPDLP  
VRSKELEQRKRWVKAKELAVEGPSQEHSRPF SVEALTLTKLMITANSKEQPSKSALVSLP  
SWLLATPQASATMMASVPSRPGQLS LLEGKPVVVREQPESHTWVKEGKRPWGEMKEQPW  
GEMKEPPWDPKGPVKVPFRSKPTSASLKREGISQAPIPLTASPWEDLRPSPLSETLISKM  
EATARASQQPKRVSQEPMRMPAQHPLATVGSSEILLPMLLELETVRNTATKAEEIQEES  
GVLNLLPSLQHSQHSEWPDAGA

>sp|A6NKC0|F90A7\_HUMAN Putative protein FAM90A7P OS=Homo sapiens GN=FAM90A7P PE=5 SV=1

MMARRDPKSWAKRLVRAQTLQQRRA PVGPRSPPPDEEDPRLKCKNCGAFGHTARSTRCP  
MKCWKAALVPATLGKKEGKENLKPWKPRAEANPGPLNKDKGEKEERPRQQDPQRNALLHM  
FSGKPPEKPLPNGKGSTESSEHLRVASGMPVHTTSKRPRVDPVLADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADIPQAFRHQGPELLVVKPTHSSPEGGCREV  
PQAASKTHGLLQAVRPQAQDKRP AVTSQPCPPAATHSLGLGSNLSFGPGA KRPAQAPIQA

CLNFPKKPRLGPFQIPESAIQGGELRAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
RQPPHSTPCLPTAQAQCTMSHHPAAGHDGAQPLRVLFRRLENGRWSSSLLAAPS FHSPEKP  
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>sp|POC7W8|F90AD\_HUMAN Putative protein FAM90A13P OS=Homo sapiens GN=FAM90A13P PE=5 SV=1

MMARRDPTSWAKRLVRAQTLQKQRRAPVGPRAPPPDEEDPRLKCKNCGAFGHTARSTRCP  
MKCWKAALVPATLGKKEGKENLKPWKPRGEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTEPSDYLRVASGMPVHTTSKRPRLDVPLADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADMPQPAVRHQGREPLL VVKPTHSRPEGGCREV  
PQAASKTHGLLQAARPAQDKRAVTSQPCPPAATHSLGLGSNLSFGPGAQRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
RQPPHSRCLPTAQAQCTMSHHPAASHDGAQPLRVLFRRLENGRWSSSLLAAPS FHSPEKP  
GAFLAQSPHVSEKSEAPCVRVPPSVLYEDLQVSSSSEDSDSLE

>sp|Q8N5C1|FA26E\_HUMAN Protein FAM26E OS=Homo sapiens GN=FAM26E PE=2 SV=1

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VLLILGFFLNNSRWLFTGCCVNPRKIFPRGHSCRFFYVLGQITLSSLVAPVMWLSVALL  
NGTFYECAMSGTRSSGLELICKGKPKCEWELHKVSCGKTSMLPTVNEELKLSLQAQSQ  
ILGWCLICSASFSLTTCYARCRSKVSYLQLSFWKTYAQKEKEQLENTFLDYANKLSER  
NLKCFENKRDPFPMPPTFAAWEAASELHSFHQSQQHYSTLHRVVDNGLQLSPEDDETTM  
VLVGTAHNM

>sp|Q8N2R8|FA43A\_HUMAN Protein FAM43A OS=Homo sapiens GN=FAM43A PE=2 SV=2

MLPWKKHKFELLAEAPPRQASKPKGYAVSLHYSALSSLARACPEGALSRVGS MFRSKRKK  
LHITSEDPTYTVLYLGNATTIQARGDGCTDLAVGKIWSKSEAGRQGTKMKLTVSAQGIRM  
VHAEERALRRPGHLYLLHRVTYCVADARLPKVFVAVRHELKHKAVMLRCHAVLVSKPEK  
AQAMALLLYQTSANALAEFKRLKRRDDARHQQQELVGAHTIPLVPLRKLLLHG PCCYKPP  
VERSRAPKLGSITEDLLGEQLEQELQEEEEEQPEGCP EEEENRAAEGDPAEEEEAEQR  
ALVAMHFECGLDLDLENGRGEALGGGGSLGPGAGPPPLLLGSASDMKAELS QLISDL  
GELSFGNDVRTLQADLRVTRLLSGDSTGSESSIEGGPDATSATAGDSSRQADGASADEP  
HSG

>sp|Q96IP4|FA46A\_HUMAN Protein FAM46A OS=Homo sapiens GN=FAM46A PE=1 SV=2

MAEGEGYFAMSEDELACSPYIPLGGDFGGGDFGGGDFGGGDFGGGDFGGHCLDYCESPT  
AHCNVLNWEQVQRDLGILSETIPIHGRGNFPTLELQPSLIVKVVRRLAEKRIGVRDVRL  
NGSAASHVLHQDGLGYKDLDLIFCADLRGEGEFQTVKDVLDCLLDFLPEGVNKEKITP  
LTLKEAYVQKMKVCNDSRWSLISLSNNSGKNVELKFVDSLRRQFEFSVDSFQIKLDSL  
LLFYECSENPMTETFHTTIIGESVYGDFQEAFDHLCNKIIATRNP EIRGGGLLKYNLL  
VRGFRPASDEIKTLQRYMCSRFFIDFSDIGEQQRKLESYLNHFVGLDRKYEYLMTLHG  
VVNESTVCLMGHERRQTLNLITMLAIRVLADQNVIPNVANVT CYYPAPYVADANFSNYY  
IAQVQPVFTCQQQTYSTWLPCN

>sp|Q5JRC9|FA47A\_HUMAN Protein FAM47A OS=Homo sapiens GN=FAM47A PE=2 SV=3

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GCSPEDTLVCCRDEFLLPKISLRGPQADPKSGQKLLKKAALFSKLSPAQLARKAFVEQ  
VEAQLMAKHPLAMYPNLGEDMPPDLLQVLKHLDPERELEDAWACCETQEKTTEVPTEPG  
KHPCGEFCLKPPETPVSHLLPEPPETGVSHLSPEPPKTPVSSLRPEPPETGVSHLRPEPP  
ETGVSHIRPGPPI TRRRSSLLRQLLKLDSEKLEDARAPCEGREKTTDEPTEPGKYPCGK  
FCPRPFETPLSHLRQEPPKTPVSSLRPEPPETGESHLRLEHSKTRRGSSLRSEPS ETGVS

RLRLAPPKTRRGSSSLHAEPSKTGVSHLSPEPPKTEVSHLHPVPPKTGVCHLRLEPPDTSQ  
VSNLLLYILKVLDSGRTLKDVWDRCEARVKKTKTEPTEPHKSPCGEPCLPPEPETQVSHPHP  
EHPKTRRRSSLSHSQPPKTRRTSSLRSEPPKTRRTSSLRSEPPKTRRTSSLGPEPPKTRRV  
SSLRPELPKSRRVSSSLHPEPPKAPESHQFSEPPKIRASYIKELLQEDTPSTKECVSDSLQ  
YRYTSEKLREFFKWAGDLGADEESIRNLFDFTPKYRATHEDQKFKKVKECSSELKYSMEL  
DEKDEKFFSQEKYWGKRFHTPSNSYTAQRVKMKYGAWYLPKPLWKKLRSDEPLIDPKLL  
LKKPDEPDVLDLGYPIAFKDFILSKGYEMPGIIQRLFARRGWTYDSVKTPIQRAMIFYK  
YKEIVEASEED

>sp|A6NHR8|FA47D\_HUMAN Putative protein FAM47D OS=Homo sapiens GN=FAM47DP PE=5 SV=3  
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GCSPEDMLICRNEFLLPKISHRGPQADPKSRQKLLKKVALFSKLLPAQPAWKAFVEE  
AQLMAKHPLAMYPNLGEDMPPDLLLQMLKLLDPERKLEKAWAYCEGREKTIKEPTKPEPP  
KAPVSHHFLEPPKIRASCLKELLQEDTPSTTECVSDSLQHRYTSRKMHDFFKWARDMGVDE  
ESIRNLFDFTPKWRATYEDQQIKKIKEWVSELQYRIKLEMDDEVESQEKDWRKLQMAP  
NSYTAQCVMRYGVWYLPKPLGKKLRSDQPLIDPKLLLEKPDDEPDILDDLYGPIAFKDFI  
LSKGYEMPGIIERLCARKGWTYDSVKTPVQRAMRLYK

>sp|Q9HQ00|FA49A\_HUMAN Protein FAM49A OS=Homo sapiens GN=FAM49A PE=2 SV=1  
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EIRDAIQNPNDIQLQEKAWNVCPLVVRLKRFYEFSIRLEKALQSLLSLTCCPPYTPTQH  
LEREQALAKEFAEILHFTLRFDELKMRNPAIQNDFSYYRRTISRNRINNMLDIENEVNN  
EMANRMSLFYAEATPMLKTLNATMHFVSENKTLPIENTTDCLSTMTSVCKVMLETPEYR  
SRFTSEETLMFCMRVMVGVIILYDHVHPVGAFCKTSKIDMKGCIKVLKEQAPDSVEGLLN  
ALRFTTKHLNDESTSKQIRAMLQ

>sp|Q14153|FA53B\_HUMAN Protein FAM53B OS=Homo sapiens GN=FAM53B PE=1 SV=2  
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DQPSTSIWECLPEKDSSLWHREAVTACAVTSLIKDLSISDHNGNPSAPPSKRQCRSLSFS  
DEMSSCRTSWRPLGSKVWTPVEKRRCYSGGSVQRYSNGFSTMQRSSSFSLPSRANVLSSP  
CDQAGLHHRFGGQPCQGVPGSAPCGQAGDTWSPDLHPVGGGRLDLQRSLSCSHEQFSFVE  
YCPPSANSTPASTPELARRSSGLSRSRSPCVLNDKKVGKRRRPEEVQEQRPSLDLAKM  
AQNCQTFSSLSCLSAGTEDCGPQSPFARHVSNTRAWTALLSASGPGGRTPAGTPVPEPLP  
PSFDDHLACQEDLSCEESDSCALDEDCGRRAEPAAAWDRGAPGNSLCSLDGELDIEQIE  
KN

>sp|Q8NBR6|FA63B\_HUMAN Ubiquitin carboxyl-terminal hydrolase MINDY-2 OS=Homo sapiens  
GN=FAM63B PE=1 SV=2  
MESSPESLQPLEHGAAGPASGTGSSQEGLQETRLAAGDGPVWAAETSGGNLGA AAAAR  
RSLPDSASPAGSPEVPGPCSSSAGLDLKDSGLESPAAAEAPLRGQYKVTASPETA VAGVG  
HELGTAGDAGARPDLAGTCQAELTAAGSEEPSSAGGLSSSCSDPSPPGESPSLDSLESFS  
NLHSFPSSCEFNSEEGAENRVPEEEEGA AVLPGAVPLCKEEGEETAQVLAASKERFP GQ  
SVYHIKWIQWKEENTPIITQ NENGPCPLAILNVLLLAWKVLPMMEIITAEQLMEYLG  
DYMLDAKPKEISEIQRLNYEQNMSDAMAILHKLQTGLDVNVRFTGVRVF EYTPECIVFDL  
LDIPLYHGWLVD PQIDDIVKAVGNCSYNQLVEKII SCKQSDNSELVSEGFVAEQFLNNTA  
TQLTYHGLCELSTSTVQEGELCVFRNNHFSTMTKYKGQLYLLVTDQGFLTEEKVVWESLH  
NVDGDGNFCDSEFHLRPPSDPETVYKGQQDQIDQDYLMA LSLQQEQQSQEI NWEQIPEGI  
SDLELAKKLQEEEDRRASQYYQE QEAAAAAAAAASTQAQQGQPAQASPSSGRQSGNSERK

RKEPREKDKEKEKEKNSCVIL

>sp|P15090|FABP4\_HUMAN Fatty acid-binding protein, adipocyte OS=Homo sapiens GN=FABP4  
PE=1 SV=3

MCDAFVGTWKLVSSENFDDYMKVGVGFATRKVAGMAKPNMIISVNGDVITIKSESTFKN  
TEISFILGQEFDEVTTADDRKVKSTITLDGGVLVHVQKWDGKSTTIKRKREDDKLVVECVM  
KGVTSSTRVYERA

>sp|Q01469|FABP5\_HUMAN Fatty acid-binding protein, epidermal OS=Homo sapiens GN=FABP5  
PE=1 SV=3

MATVQQLEGRWRVLVDSKGFDEYMKELGVGIALRKMAMAKPDCIITCDGKNLTIKTESTL  
KTTQFSCSLTGEKFEETTADGRKTQTVCNFTD GALVQHQEWDGKESTITRKLKDGKLVVEC  
VMNNVTCTRIYEKVE

>sp|Q05397|FAK1\_HUMAN Focal adhesion kinase 1 OS=Homo sapiens GN=PTK2 PE=1 SV=2

MAAAYLDPNHNHTPNSSKTHLGTGMERSPGAMERVLKVHFYFESNSEPTTWASIIRHGD  
ATDVRGIIQKIVDSHKVKHVACYGFRLSHLRSEEVHVLHVDMGVSSVREKYELAHPPPEEW  
KYELRIRYLPKGFLNQFTEDKPTLNFFYQQVKSDYMLEIADQVDQEIALKLGCLEIRRSY  
WEMRGNALEKKSNEYEVLEKDVGLKRFFPKSLDSVKAKTLRKLIIQQTFRQFANLNREESI  
LKFFEILSPVYRFDKECFKALGSSWIIISVELAIGPEEGISYLTDKGCNPTHLADFTQVQ  
TIQYSNSEDKDRKGMQLKLIAGAPEPLTVTAPSLTIAENMADLIDGYCRLVNGTSQSFI  
RPQKEGERALPSIPKLANSEKQGMRTHAVSVSETDDYAEIIDEEDTYTMPSTRDYEIQRE  
RIELGRCIGEGQFGDVHQGIYMSPENPALAVAIKTCNKCTSDSVREKFLQEALTMQRQFDH  
PHIVKLIGVITENPVWIIIMELCTLGELRSFLQVRKYSLDASLILYAYQLSTALAYLESK  
RFVHRDIAARNVLVSSNDCVKLGDFGLSRYMEDSTYYKASKGKLPIKWMAPESINFRRFT  
SASDVWMFGVCMWEILMHGVKPFQGVKNNDVIGRIENGERLPMPPNCPPTLYSLMTKCWA  
YDPSRRRPRFTELKAQLSTILEEEKAQQEERMESRRQATVSWDSGGSDEAPPKPSRPGY  
PSPRSSEGFYFSPQHMVQTNHYQVSGYPGSHGITAMAGSIYPGQASLLDQTDSWNHRPQE  
IAMWQPNVEDSTVLDLRGIGQVLPHTLMEERLIRQQQEMEEDQRWLEKEERFLKPDVRLS  
RGSIDREDGSLQGPIGNQHIYQVPGKPDPAAPPKKPPRPGAPGHLGSLASLSSPADSYNE  
GVKLQPQEISPPPTANLDRSNDKVYENVGTGLVKAVIEMSSKIQPAPPEEYVPMVKEVG  
LRTLLATVDETIPLLPASTHREIEMAQKLLNSDLGELINKMKLAQQYVMTSLQQEYKKQM  
LTAHALAVDAKNLLDVIDQARLKMLGQTRPH

>sp|Q53R41|FAKD1\_HUMAN FAST kinase domain-containing protein 1, mitochondrial OS=Homo sapiens GN=FASTKD1 PE=1 SV=1

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AILSEKQVGCADFMLWKLQKQKTSLLKNAEYVRDHPQFLTLHNLATNKFKLMNDDTLNVN  
LYVTQQFAGEAHDPLVEALVTEAWRRLERFDIKLLSEFSSCLADQHLYFSPLMGKIADIV  
HRNLETTQDLSSLSVLMVNISLSIRHFQQQLVNKTELLFDTIDSSEVNVAKSIAKFLRN  
VRYRYQPILLERCNNVFLSNVDHLDLSISKILSVYKFLQNSFEFIIMAKKKLTEMIPLC  
NHPASFVKLFVALGPIAGPEEKKQLKSTMLLMSEDLTGEQALAVLGAMGDMESRNSCLIK  
RVTSVLHKHLDGYKPLELLKITQELTFLHFQRKEFFAKLRELLLSYLKNSFIPTESVVLV  
RAISLLPSPHLDEVGISRIEAVLPQCDLNNLSSFATSVLRWIIQHDHMYLDNMTAKQLKLL  
QKLDHYGRQRLQHSNSLDLLRKELKSLKGNTFPESLLEEMIATLQHFMDINYNVGEIA  
SFISSTDYLSLTLDDRIASVAVQQIEKIHPFTIPAIIRPFSVLNYDPPQRDEFGLGTCVQH  
LNSYLGILDPFILVFLGFSLATLEYFPEDLLKAIFNIKFLARLDSQLEILSPSR SARVQF  
HLMELNRSVCLECPEFQIPWFHDFRCQQYNKGIGMDGTQQQIFKMLAEVLGGINCVKAS

VLTPYYHKVDFECILDKRKKPLPYGSHNIALGQLPEMPWESNIEIVGSRLPPGAERIALE  
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GEVKSCL

>sp|Q92520|FAM3C\_HUMAN Protein FAM3C OS=Homo sapiens GN=FAM3C PE=1 SV=1  
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SKACPEKHFAFKMASGAANVVGPKICLEDNVLMMSGVKNNVGRGINVALANGKTGEVLDTK  
YFDMWGGDVAPFIEFLKAIQDGTIVLMGTYDDGATKLNDEARRLIADLGSTSITNLGFRD  
NWFVFCGGKGIKTKSPFEQHIKNNKDTNKYEGWPEVVEMEGCIPQKQD

>sp|Q8IZU0|FAM9B\_HUMAN Protein FAM9B OS=Homo sapiens GN=FAM9B PE=1 SV=1  
MAAWGKKHAGKDPVRDECEERNRFTETREEDVTDEHGEREPFAETDEHTGANTKKPEDTA  
EDLTAKRKRKMDKTCSTKNKSKHALRKKQLKRQKRDYIHSLKLLNVLEEYITDEQKEE  
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DSELDN

>sp|Q00597|FANCC\_HUMAN Fanconi anemia group C protein OS=Homo sapiens GN=FANCC PE=1 SV=1  
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IERFPTIGQLLAKACWNPFILAYDESKILIWCLCCLINKEPQNSGQSKLNSWIQGVLSH  
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ASLSRVCVPLITLTDVDPLVEALLICHGREPQEILQPEFFEAVNEA ILLKKISLPMSAVV  
CLWLRHLP SLEKAMLHLFEKL ISSERNCLRRIECFIKDSSLPQAACHPAIFRVVDEMFR C  
ALLETDGALEIIATI QVFTQCFVEALEKASKQLRFALKTYFPYTSPSLAMVLLQDPQDIP  
RGHWLQTLKHISELLREAVEDQTHGSCGGPFESWFLFIHFGGWAEMVAEQLLMSAAEPPT  
ALLWLLAFYYGPRDGRQRAQTMVQVKAVLGHLLAMSRSSLSAQDLQTVAGQGTDTDLR  
APAQQLIRHLLN FLLWAPGGHTIAWDVITLMAHTAEITHEIIGFLDQTLYRWNRLGIES  
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>sp|Q14296|FASTK\_HUMAN Fas-activated serine/threonine kinase OS=Homo sapiens GN=FASTK  
PE=1 SV=1  
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EQERRLR LPPKPPPLQPLL RGGQGLEAALSCPRFLRYPRQHLISSLAEARPEELTPHVM  
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ERILAREAGVAPLATVNILMSLCQLRCLPFRALHFVFS PGFINYISGTPHALIVRRYLSL  
LDTAVELELPGYRGPRLP RRQQVPIFPQPLITDRARCKYSHKDIVAEGLRQLLGEEKYRQ  
DLTVPPGYCTDFLLCASSSGAVLPVRTQDPFLPYPPRSCPGQAASSATTRDPAQRVVLV  
LRERWHFCRDGRVLLGSRALRERHLGLMGYQLLPLPFEELESQRGLPQLKSYLRQKLQAL  
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>sp|P54760|EPHB4\_HUMAN Ephrin type-B receptor 4 OS=Homo sapiens GN=EPHB4 PE=1 SV=2  
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VCQCRVGYFRARTDPRGAPCTTPPSAPRSVVSRLNGSSLHLEWSAPLES GGREDLT YALR  
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PFEPVNVTTDREVPPAVSDIRVTRSSPSSLAWAVPRAPSGAVLDYEVKYHEKGAEGPS  
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FLSEASIMGQFEHPNIIIRLEGVVTNSMPVMILTEFMENGALDSFLRLNDGQFTVIQLVGM  
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>sp|Q9Y6I3|EPN1\_HUMAN Epsin-1 OS=Homo sapiens GN=EPN1 PE=1 SV=2

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>sp|Q95208|EPN2\_HUMAN Epsin-2 OS=Homo sapiens GN=EPN2 PE=1 SV=3

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>sp|Q12929|EPS8\_HUMAN Epidermal growth factor receptor kinase substrate 8 OS=Homo sapiens  
GN=EPS8 PE=1 SV=1

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SKNELENFPLNTIQHCQAVMHSCSYDSVLALVCKEPTQNKPDHLHFQCDEVKANLISED  
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LFTPLNMVVQATGGPELASSVLSPLLNKDTIDFLNYTVNGDERQLWMSLGGTWMKARAEW  
PKEQFIPPYPVPRFRNGWEPPMLNFMGATMEQDLYQLAESVANVAEHQRKQEIKRLSTEHS  
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DFVARNNSELSVLKDDILEILDDRKQWWKVRNASGDSGFVPNNILDIVRPPESEGLGRADP  
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SSDSGGSIVRDSQRHKQLPVDRRKSQMEEVQDELIHRLTIGRSAAQKKFHVPRQNPVIN  
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>sp|Q14674|ESPL1\_HUMAN Separin OS=Homo sapiens GN=ESPL1 PE=1 SV=3

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ALES GHFPQPEKESFQERLALIPSGVTVCVLALATLQPGTVGNTLLLTRLEKDSPPVSVQ  
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CWKGLLLPSSEEPGAQEA SRLQELLQDCGWKYPDR TLLKIMLSGAGALTPQDIQALAYG  
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FRFLSYSIIKEYGASPVLSQGVDPSTFYVLNPHNNLSSTEEQFRANFSSEAGWRGVVG  
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>sp|P22794|EVI2A\_HUMAN Protein EVI2A OS=Homo sapiens GN=EVI2A PE=2 SV=2

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TNPITPEVDYKGNSTNMPETSHIVALTSKSEQELYIPSVVNSPSTVQSIENTSKSHGEI  
FKKDVCAENNNNMAMLI CLII IAVLFLICTFLFLSTVVLANKVSSLRRSKQVGKRQPRSN  
GDFLASGLWPAESDTWKRTKQLTGPNLVMQSTGVL TATREKRKDEEGTEKLTNKQIG

>sp|Q96CN4|EVI5L\_HUMAN EVI5-like protein OS=Homo sapiens GN=EVI5L PE=1 SV=1

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RAIVWQLLCSATDMPVKNQYSELLKMSSPCEKLIR RDIARTYPEHEFFKGQDSL GQEVLF  
NVMKAYSLVDREVG YCQGS AFIVGLLLMQMPEEEAF CVFVRLMQEYRLREL FKPSMAELG  
LCIQFEYMLQEQLPDLNTHFRSQSFHTSMYASSWFLTLFLTTFPLPVATRVFDIFMYEG  
LEIVFRVGLALLQVNQAE LMQDMEGMSQYFQRVIPHQFDSCPKLV LKAYQVKYNPKKM  
KRLEKEYAAMKSKEMEEQIEIKRLRTENRL LKQRIETLEKGQVTRAQEA EENYVIKRELA  
VVRQQCSSAAEDLQKAQSTIRQLQEQQENPRLTEDFVSHLETELEQSRLRETETLGALRE  
MQDKVLDMEKRNSSLPDENNAQLQEELKALKVREGQAVASTRELKLQLQELSDTWQ AHL  
ARGGRWKESPRKL VVGELQDELSVRLREAQALAE GRELRQRVVELETQDHIHRNLLNRV  
EAERAAQLQEK LQYLAAQNKGLQTQLSESRRKQAEAECKSKEEVMAVRLREADSMAAVAEM  
RQRIAELEIQREEGR IQGQLNHS DSSQYIRELKDQIEELKAEVRL LKGGPPPFEDPLAFDG  
LSLARHLDEDSLPSDEELLGVGVGAALQDALYPLSPRDARFFRRLERPAK DSEGSSDSD  
ADELAAPYSQGLDN

>sp|A8MZ36|EVPLL\_HUMAN Envoplakin-like protein OS=Homo sapiens GN=EVPLL PE=2 SV=1

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RLKHPQAEETEKDIEQLHERVTQECAEYCALYEKMVLPPRRGIQGR LGTRAGAETEAGLR  
RPVWAGHGGAGGTDRGAQHRAEGDQRPRRAAEPGGAGCRHHPEPIRPTEGGVVARAEP  
GQPVHALQGCTWQLSALAEQRRILQQDWS DLMADPAGVRREYEHFKQHELLS QEQSVNQ  
LEEDGKRMVELRHPAVGPIQAHQEAL KMEWQNFLNLCICQETQLQHVEDYSRILCPSSSP  
H

>sp|Q8N2X6|EXAS1\_HUMAN Uncharacterized protein EXOC3-AS1 OS=Homo sapiens GN=EXOC3-AS1  
PE=1 SV=1

MPAVFMLASSALQCGRGVPRFP RTEVGAGHSVNEETKAEKVGNQTSVIPATSRQAALGT  
SWTQRRRTQPLQERSHWHPRGNNASGMGGHRMFPGPLRGPA AQVLENECGSLGRAAEGRS

>sp|Q8NHP7|EXD1\_HUMAN piRNA biogenesis protein EXD1 OS=Homo sapiens GN=EXD1 PE=1 SV=4

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SLLNDLKYS PSEEEV TYTVINQFQQKFGAAILHIKKQNVLSVAAEGANVCRHGKLCWLQ  
VATNCRVYLF DIFLLGSRAFHNGLQMILEDKRILKVIHDCRWLSDCLSHQYGILLNNVFD  
TQVADV LQFSMETGGYLPNCITTLQESLIKHLQVAPKYLSFLEKRQKLIQENPEVWFIRP  
VSPSLKILALEATYLLPLRLALLDEMMSDLTTLVDGYLNTYREGSADRLGGTEPTCMEL  
PEELLQLKDFQKQRREKAAREYRVNAQGLL IRTVLQPKKLV TETAGKEEKVKGFLFGKNF  
RIDKAPSFTSQDFHGDVNLKEESLNKQATNPQHLPPTTEEGETSEDSSNKLICTKSKGSE  
DQRITQKEHFMTPKHEFQASLSLKEETEQLLMVENKEDLKCTKQAVSMSSFPQETRVSPS  
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>sp|Q9Y2C4|EXOG\_HUMAN Nuclease EXOG, mitochondrial OS=Homo sapiens GN=EXOG PE=1 SV=2

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VLEQFGFPLTGTEARC YTNHALSYDQAKRVPRWVLEHISKSKIMGDADRKHCKFKPDPNI  
PPTFSAFNEDYV GSGWSRGHMAPAGNNKFSSKAMAETFYLSNIVPQDFDNNSGYWNRIEM  
YCRELTERFEDVWVVS GPLTLPQTRGDGKKIVSYQVIGEDNAVPSHLYKVILARRSSVS

TEPLALGAFVVPNEAIGFQPQLTEFQVSLQDLEKLSGLVFFPHLDRTSDIRNICSVDTC  
LLDFQEFTLYLSTRKIEGARSVLREKIMENLKNAEIEPDDYFMSRYEKKLEELKAKEQS  
GTQIRKPS

>sp|Q9NUU6|F105A\_HUMAN Inactive ubiquitin thioesterase FAM105A OS=Homo sapiens GN=FAM105A  
PE=2 SV=1

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LFWRHIIKCVRRQVRRDNYDALRSVLFQIFSQGIFSFSWMKEKDIVKLPEKLLFSQGCNWI  
QQYSFGPEKYTGSNVFGKLKRYVELLKTQWTEFNGIRDYHKRGSMTLFSDAILEYKLY  
EALKFIMLYQVTEVYEQMKTKKVIPSLFRLLFSRETSSDPLSFMNHLNSVGDTCGLEQI  
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>sp|O95990|F107A\_HUMAN Protein FAM107A OS=Homo sapiens GN=FAM107A PE=1 SV=1

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>sp|Q6UXT8|F150A\_HUMAN Protein FAM150A OS=Homo sapiens GN=FAM150A PE=1 SV=1

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>sp|Q96KS9|F167A\_HUMAN Protein FAM167A OS=Homo sapiens GN=FAM167A PE=1 SV=1

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AWLRKELTEMRLQDQQLARQLMRLRGDINKLKIEHTCRLHRRMLNDATYELEERDELADL  
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>sp|A1KXE4|F168B\_HUMAN Myelin-associated neurite-outgrowth inhibitor OS=Homo sapiens  
GN=FAM168B PE=1 SV=1

MNPVYSPGSSGVPIYANAKGIGYPAGFPMGYAAAAPAYSPNMYPGANPTFQTYGTPGTPYK  
VSCSPTSGAVPPYSSSPNPYQTAVYPVRSAYPQQSPYAQQGYTYTQPLYAAPPVHHTT  
VVQPNGMPATVYPAPIPPPRGNGVTMGMVAGTTMAMSAGTLLTAHSPTPVAPHPVTVPPTY  
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>sp|Q8N612|F16A2\_HUMAN FTS and Hook-interacting protein OS=Homo sapiens GN=FAM160A2 PE=1  
SV=3

MERMNWLRLASRGPHRIPQGANLQTPVMADPETCLMVFKNHSQVVRILERQGPRAAP  
GGADDLSAVRNHTYQMLTLAEDRAVPSAPTGPGLLEFALHEDLLTRVLTWQLQWDELG  
DGVEERRAEQLKLFEMLVSEARQPLLRHGPVREALLTLDACGRVPVSSPALDEGLVLLL  
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FLSSPLRTLNLPSQPF TGP FMAVLF AKLENMLQNSVYVNFLLTGLVAQLACHPQPLLRS  
FLLNTNMVFQPSVKSLQLVLSVKNKIENFAASQEDFPALLSKAKKYLIARGKLDWAEGP  
AAGPAPRRSDPLVKSRRPSLGELLRLHAHSPTRARQAAQLVLQPGRDGAGLGLSGGSPGA  
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>sp|000757|F16P2\_HUMAN Fructose-1,6-bisphosphatase isozyme 2 OS=Homo sapiens GN=FBP2 PE=1 SV=2

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LDGSSNIDCLASIGTIFAIYRKTSEDEPSEKDALQCGRNIVAAGYALYGSATLVALSTGQ  
GVDLFMLDPALGEFVLVEKDVKIKKKGKIYSLNEGYAKYFDAATTEYVQKKKFPEDGSAP  
YGARYVGSMAVDVHRTL VYGGIFLYPANQKSPKGKLRLLYECNPVAYIEQAGGLATTGT  
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>sp|Q6P4H8|F173B\_HUMAN Protein FAM173B OS=Homo sapiens GN=FAM173B PE=1 SV=2

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WLWYSRYRAWREGVHGS AKFYISDLWKVTF SQYSNVVIFGVPQMMLQLEKKLERELEDD  
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>sp|Q3ZCQ3|F174B\_HUMAN Membrane protein FAM174B OS=Homo sapiens GN=FAM174B PE=2 SV=2

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>sp|Q8NOU4|F185A\_HUMAN Protein FAM185A OS=Homo sapiens GN=FAM185A PE=2 SV=3

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KYDEDELEMAIVSDTIHPQASVEVNAPLKFGLDIKSSGSGCVKVQSI EGDNCKIETEHGT  
SILQSVKGQKLHVQTKGGKVICLGTVYGNIDIHASDKSAVTIDKLQGSSVTVSTEDGLLK  
AKYLYTESSFLSSAAGDITLGSVHG NITLQSKMGNITVDSSSGCLKASTNQGAIDVYVSQ  
LGKVELKSHKGSIIIVKVPSSLQAHLQLSGKEVDVNSEVHVQEMAEVRKDDVVTVTGLMNQ  
ASKREKWIKADAPKGTVSFRRQSWFQSLKLQD

>sp|O60320|F1891\_HUMAN Protein FAM189A1 OS=Homo sapiens GN=FAM189A1 PE=2 SV=4

MPPAGGPRAPRPAALPRSLRLRECPGRSRIVLALGATQMALGCLIVAVSFAALALTSA  
RVRHSCPFWAGFSVLLSGLIGVSWKRPLSLVITFFMLLSAVCVMLNLAGSILSCQNAQL  
VNSLEGCQLIKFDSVEVCVCELQHQSSGCSNLGETLKLNPLQENCNAVRLTLKDLLFSV  
CALNVLSTIVCALATAMCCMQMVSSDVLQMFLPQRSHPANPTCVTPHGTVLHQTLDFDEF  
IPPLPPPPYPPEYTCTPSTEAQRGLHLDFA PSPFGTLYDVAINSPGLLYPAELPPPYEA  
VVGQPPASQVTSIGQQAESSSGDPNTSAGFSTPVPADSTLLVSEGTATPGSSPSPDGP  
VGAPAPSEPALPPGHVSPEDPGMGSQVQPGPGRVSRSTSDPTLCTSSMAGDASSHRPSCS  
QDLEAGLSEAVPGSASMSRSATAACRAQLSPAGDPDTWKTQDRPTPEFPATSKERPRSL  
VDSKAYADARVLVAKFLEHSHCALPTEAQHVMGAMRLAVTNEERLEEEAVFGADVLDQV

>sp|Q9GZU8|F192A\_HUMAN Protein FAM192A OS=Homo sapiens GN=FAM192A PE=1 SV=1

MDGGDDGNLI IKKRFVSEAELDERRKRRQEWEKVRKPEDPEECPEEVYDPRSLYERLQE  
QKDRKQQEYEEQFKFMNVRGLDEDETNFLDEVSRQQELIEKQRREEELKELKEYRN NLK  
KVGISQENKKEVEKKLTVKPIETKNKFSQAKLLAGAVKHKSSSESGNSVKRLKPDPEPDDK

NQEPSSCKSLGNTSLSGPSIHCPSAAVCIGILPGLGAYSGSSDSESSDSEGTINATGKI  
VSSIFRTNTFLEAP

>sp|Q9UFP1|F198A\_HUMAN Protein FAM198A OS=Homo sapiens GN=FAM198A PE=1 SV=3

MASWLRRLRGKRRPVIAFCLLMILSAMAVTRFPPQRPSAGPDPGMPQPQVGTGAPATHI  
RQALSSSRQRARNMGFWRSRALPRNSILVCAEEQGHRARVDRSRESPGGDLRHPGRVRR  
DITLSGHPRLSTQHVLLREDEVGDPGTKDLGHPQHGSPIQETQSEVTLVSPPLGSDMA  
ALPAWRATSGTLWPHTAEGRDLLGAENRALTGGQQAEDPTLASGAHQWPGSVEKLQGSV  
WCDAETLLSSSRTGGQAPPWLTDHDVQMLRLLAQGEVVDKARVPAHGQVLQVGFSTEAAAL  
QDLSSPRLSQLCSQGLCGLIKRPGDLPEVLSFHVDRVLGLRRSLPAVARRFHSPLLPYRY  
TDGGARPVIWWAPDVQHLSDPDEDQNSLALGWLQYQALLAHSCNWPQGAPCPGIHTEWA  
RLALFDLLQVHDLDRYCCGFEPEPSDPCVEERLREKQCQNPALRLVHILVRSSDPShL  
VYIDNAGNLQHPEDKLNFRLLLEGIDGFESAVKVLASGCLQNMLLKSQMDPVFWESQGG  
AQGLKQVLQTLEQRGQVLLGHIQKHNLTFRDEDP

>sp|Q7Z5A8|F19A3\_HUMAN Protein FAM19A3 OS=Homo sapiens GN=FAM19A3 PE=2 SV=1

MSEVERNWSTGGWLLALCLAWLWTHLTLAALQPPTATVLVQQGTCEVIAAHRCCNRNRI  
EERSQTVKCSFCGQVAGTTRAKPSCVDASIVLQRWWCQMEPCLPGEECKVLPDLGWSW  
SSGHKVKTKVTR

>sp|Q7Z5A7|F19A5\_HUMAN Protein FAM19A5 OS=Homo sapiens GN=FAM19A5 PE=2 SV=2

MAPSPRTGSRQDATALPSMSSTFWAFMILASLLIAYCSQLAAGTCEIVTLDRDSSQPRRT  
IARQTARACACRKGQIAGTTRARPACVDARIKTKQWCDMLPCLEGECDLLINRSGWTCT  
QPGGRIKTTTVS

>sp|Q8TCP9|F200A\_HUMAN Protein FAM200A OS=Homo sapiens GN=FAM200A PE=1 SV=1

MTPESRDITDLSGGTQEMEGIVIVKVEEEDHDFQKERNKVESSPQVLSRSTTMNERA  
LLSSYLVAIRVAKEKMAHTAAEKIILPACMDMVRTIFDDKSADKLRTIPLSDNTISRRIC  
TIAKHLEAMLITRLQSGIDFAIQLESTDIASCPTLLVYVRYVWQDDFVEDLLCCLNLNS  
HITGLDLFTELENCLLQYKLNWKHCKGISSDGTANMTGKHSRLTEKLEATHNNAVWNH  
CFIHREALVSKEISPSLMDVLKNAVKTVMFVKGSSLNSRLLEIFCSEIGVNHHTLLFHTE  
VRWLSQGGVLSRVYELRNEIYIFLVEKQSHLANIFEDDIWVTKLAYLSDIFGILNELSLK  
MQGKNNDIFQYLEHILGFQKTLWLQARLKSNRPSYMFPTLLQHIEENIINEDCLKEIK  
LEILLHLTSLSQTFNYFFPEEFESLKENIWMKDPFAFQNPESIIELNLEPEEENELLQL  
SSSFTLKNYYKILSLSAFWIKIDDFPLLSRKSILLLLPTTTYLCELGFSILRLKTKK  
RNRLNSAPDMRVALSSCVPDWKELMNRQAHPH

>sp|Q32MH5|F214A\_HUMAN Protein FAM214A OS=Homo sapiens GN=FAM214A PE=1 SV=2

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CSDKLAQCRQARRTRSEVTLWKNLPIVEMMLLPDCCYSDDGPTTEGIDLNDPAIKQD  
ALLERWILEPVPRQNGDRFIEEKTLLAVRSFVFFSQLSAWLSVSHGAIPRNILYRISA  
ADVDLQWNFSQPTIEHVFPVNVSHNVALKVSQSLPRQSYPVLTCSIHTNIGLYEKRI  
QQHKLKTHQHHPNEAEQCGTNSSQRLCSKQWTMAPESVLHAKSGPSPEYTAAVKNIKL  
YPGTGSKSDHGTQANILGFSGIGDIKSQETSVRTLKFSFMDSSISNRQSFQWQSAGETN  
PLIGSLIQRQEIIARIAQHLIHCDPSTSHVSGRPFNTQESSLHSLKFRVSQENENVGK  
GKEAFSMTFGSPEFSSPEDTNEGKIRLPETPRSETCISNDFYSHMPVGETNPLIGSLQ  
ERQDVIARIAQHLEHIDPTASHIPRQSFNMHDSSSVASKVFRSSYEDKNLLKKNKDESSV  
SISHTKCSLLGDISDGKNLVPNKCFSTFKNSKEKCSLKHQTRNQCNPNPSEIIQSTYQE  
TQNKSSSLSTSSILSQHKENLDLTSRFKEQEMSNGIDKQYSNCTTIDKQICTNKYKEKI

INENYNPKFFGNLQSDDSKKNDSKIKVTVLEMSEYLNKYESMSSNKSkrPKTCEQNTQL  
NSIENYLNKDNEGFKCKKSDQLKNEQDKQEDPTNEKSQNYSQRRSIKDCLSTCEQPKNTE  
VLRTTLKHSNVWRKHNHFSLDGTSTRAFHPQTGLPLLSSPVPQRKTQSGCFDLSSLLHL  
KSFSSRSRPCLNIEDDPDIHEKPFLSSSAPPITSLSLLGNFEESVLNRYFDPLGIVDGF  
TAEVGASGAFCPHTLTLPVEVSFYSVSDDNAPSPYMGVITLES LGKRGYRVPPSGTIQVT  
LFNPNKTVVKMFVVIYDLRDMPANHQFTLRQRTFSVPVKQEVKRSVNKENIRHTEERLLR  
YLIHLRFQSSKSGKIYLRDVRLLFSRKSMEVDSGAAYELKSYTESPTNPQFSPRC

>sp|Q9Y5M1|F215A\_HUMAN Uncharacterized protein FAM215A OS=Homo sapiens GN=FAM215A PE=4  
SV=2

MVSLWVEGTFPPPGFLAHVACSGHGMKQKRKPASSEPTPEDALGGSAPVVRFHLHPEGL  
LWCSRCCFFSHGPKGSEPPGRSAGLQGATERSGRPSVQAQAQACENLVPATVWDG

>sp|PODMU4|F231A\_HUMAN Protein FAM231A OS=Homo sapiens GN=FAM231A PE=3 SV=1

MVSSKGLWKERPSAHTSECFSTTACPVAFILLVWNSQTPAGLQSLCTGRHPSLSARAQRA  
GPRASREEGTFWTERVQERWLIRSGSSQNESQEDQGAGLISQAGLKADNRRESSTWANE  
VEDRRPQCTPALNLTPSHPHPHSLTTLRSVIGIQIPPLVAAGGTVA

>sp|Q4VXF1|F74A3\_HUMAN Putative protein FAM74A3 OS=Homo sapiens GN=FAM74A3 PE=5 SV=1

MWRELRCGPGGDVETAQRLSRRRRGKSSEAVPEKTWRAQRMSQTRESSEAVPEKTWREFR  
GCPGEDVERAQKLDCPGEDMETAQTL SARRAESSEAVPEKTWRELKGCPQEDVERVQR  
LSLLLHLAVFLWIIIAINFSNSGVKSQSSTYLP SGKILK

>sp|A6NDY2|F90AA\_HUMAN Putative protein FAM90A10P OS=Homo sapiens GN=FAM90A10P PE=5 SV=1

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MKCWAALVPATLGKKEGKENLKPWKPRGEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTESSEHLRVASGMPVHTTSKRPRVDPVLADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADIPQPAFRHQGPEPLL VVKPTHSSPEGGCREV  
PQAASKTHGLLQAARPAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGAQRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
WQPPHSTPCLPTAQAQCTMSHHPAAGHDGAQPLRVLFRRLENGRWSSSLLAAPS FHSPEKP  
GAFLAQSPHVSEKSEAPCVRVPPSVLYEDLQVSSSSEDSDSLE

>sp|POC7V4|F90AJ\_HUMAN Putative protein FAM90A15P OS=Homo sapiens GN=FAM90A15P PE=5 SV=1

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MKCWAALVPATLGKKEGKENLKPWKPRVEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTESDYLRVASGMPVHTTSKRPRLDVPLADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADMPQPAVRHQGREPLL VVKPTHSRPEGGCREV  
PQAASKTHGLLQAARPAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGAQRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
RQPPHSRCLPTAQAQCTMSHHPAASHDGAQPLRVLFRRLENGRWSSSLLAAPS FHSPEKP  
GAFLAQSPHVSEKSEAPCVRVPPSVLYEDLQVSSSSEDSDSLE

>sp|POC7X0|F90AO\_HUMAN Putative protein FAM90A24P OS=Homo sapiens GN=FAM90A24P PE=5 SV=1

MMARRDPTSWAKRLVRAQTLQKQRRAPVGPRAPPPDEEDPRLKCKNCGAFGHTARSTRCP  
MKCWAALVPATLGKKEGKENLKPWKPRGEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTESSDYLRVASGMPVHTTSKRPRLDVPLADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADMPQPAVRHQGREPLL VVKPTHSRPEGGCREV  
PQAASKTHGLLQASRPQAQDKRPVTPQPCPPAATHSLGLGSNLSFGPGAQRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD

RQPPHSRPCLPTAQACTMSHSAAGHDGAQPLRVLFRRENGRWSSSLLAAPS FHSPEKP  
GAFLAQSPHVSEKSEAPCVRVPPSVLYEDLQVSSSSSEDSDSL

>sp|Q5VWP2|FA46C\_HUMAN Protein FAM46C OS=Homo sapiens GN=FAM46C PE=1 SV=1

MAEESSTRDCMSFSVLNWDQVSRLEHVLTEVVP I HGRGNFPTLEITLKDIVQTVRSRLE  
EAGIKVHDVRLNGSAAGHVLVKDNLGCKDLDLIFHVALPTEAEFQLVRDVVLCSSLNFL  
PEGVNLKLIKSPVTLKEAYVQKLVKVCTDTRWSLISLSNKGKNVELKFVDSIRRQFEFS  
VDSFQIILDSLLFFYDCSNNP ISEHFHTVIGESMYGDFEEAFDHLQNRLIATKNPEEIR  
GGGLLKYSNLLVRDFRPTDQEEIKTLERYMCSRFFIDFPDILEQQRKLETYLQNHFAEEE  
RSKYDYLMILRRVNESTVCLMGHERRQTLNLISLLALRVLAEQNIIPSATNVTCYYQPA  
PYVSDGNFSNYYVAHPPVTYSQPYPTWLPCN

>sp|Q8NA70|FA47B\_HUMAN Protein FAM47B OS=Homo sapiens GN=FAM47B PE=2 SV=2

MGDRRPQDRPRSQGMDSKPYCDKPPSKYFAKRKHRRRLRFPVDTQNWV FVTEGMDDFRY  
ACQSPEDTLVCCRDEFLLPKISLRGPQADRKS RKKKLLKKAALFSELSPVQPARKAFVEE  
VEAQLMTKHPLAMYPNLGKMDPPDLLLQVLKQLDPERKLEDAWARCEAREKTTEVPTESG  
KYPCGESCPRPPEPVSRRLPQLPKTPVSSRRPEPPKTRVSSLRPEPPKTRVSSLHPEPP  
ETRASHLRVDPPETGVSHLCPEPPKTLVSSVHPEPPDTGASHLCPEPPETRVSHLHPEPP  
ETGVSHLRPEPSKTQVSSLCPEPPEAGVSHLCLEPPNTHRVSFLLQVLKLDSEKKLEDA  
RARCEGQEMTTEELTKPGKYHFWESCP RPFESRMPHLRLVLPITRRMASLCLKPPKTRRV  
SSLCPEPTKTGASHLKELFQEDTPSTMECVSDSLQRRHTSRKL RDFKWAGDLGVNEESIS  
SLDFDTPECRTTDQDQKIKKANECASRLMYGMELDDMDEVEFLRIKYWDRRRRAAPH SYS  
AQRGRIRYGPWFYEPKLGKKLRSDEPLIDPKPVLEKPDEPDILDGLYGPIAFKDFILSKG  
YRMPGVIEKLF A KKGWYDYSVKTP I QRAVQVYKYKEDVTDASKED

>sp|Q8N1B3|FA58A\_HUMAN Cyclin-related protein FAM58A OS=Homo sapiens GN=FAM58A PE=1 SV=2

MEAPEGGGGPAARGPEGQPAPEARVHFRVARFIMEAGVKLGMR SIPIATACTIYHKFFC  
ETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVS NRYFNPSGEPLELDSRFWELRDS  
IVQCELLMLRVLR FQVSFQHPHKYLLHYLVSLQNWLNRHSWQRTPVAVTAWALLRDSYHG  
ALCLRFQAQHIAVAVLYLALQVYGVEVPAEVEAEKPWWQVFNDLTKPIIDNIVSDLIQI  
YTMDEIP

>sp|Q5T7M9|FA69A\_HUMAN Protein FAM69A OS=Homo sapiens GN=FAM69A PE=2 SV=1

MARSLCPGAWLRKPYYLQARFSYVRMKYLF FSWLVVFGSWIIYVQYSTYTELCRGKDCK  
KIICDKYKTGVIDGPACNSLCVTETLYFGKCLSTKPNQMYLGIWDNLPGVVKCQMEQAL  
HLDFGTELEPRKEIVLFDKPTRGTTVQKFEMVYSLFKAKLGDQGNLSELVNLILTVADG  
DKDGQVSLGEAKSAWALLQLNEFLLMVILQDKEHTPKLMGFCGDLYMESVEYTSLYGIS  
LPWVIELFIPSGFRRSMDQLFTPSWPRKAKIAIGLLEFVEDVFHGPYGNFLMCDTSAKNL  
GYNDKYDLKMVDMRKIVPETNLKELIKDRHCESDLDCVYGTD CRTSCDQSTMKCTSEVIQ  
PNLAKACQLLKDYLLRGAPSEIREELEKQLYSCIALKV TANQMEMEHSILNNLKTLLWK  
KISYTND

>sp|Q6L9T8|FA72D\_HUMAN Protein FAM72D OS=Homo sapiens GN=FAM72D PE=2 SV=1

MSTNICSFKDRCVSILCCKFCKQVLSSRGMAVLLADTEIDLFSTDIPPTNAVDFTGRCY  
FTKICKCKLKDIACLKCGNIVGYHVI VPCSSCLLSCNNRHFWMFHSQAVYDINRLDSTGV  
NVLLRGNLPEIEESTDEDVLNISAEECIR

>sp|Q8NEG4|FA83F\_HUMAN Protein FAM83F OS=Homo sapiens GN=FAM83F PE=1 SV=1

MAESQLNCLDEAHVNEKVTEAAAFYYCERRRAALEALLGGGEQAYRERLKEEQLRDFLS  
SPERQALRAAWSPYEDAVPAANARGKSKAKAKAPAPAPAESGESLAYWPDRSDTEVPPLD

LGWTDTFYRGVSRVTLFTHPPKDEKAPHLKQVVRQMIQQAQKVIADVMDLFTDGDIFQD  
IVDAACKRRVPVYIILDEAGVKYFLEMCQDLQLTDFRIRNIRVRSVTGVGFYMPMGRIKG  
TLSSRFLMVDGDKVATGSYRFTWSSSHVDRNLLLLTGQNVPEFDTEFRELYAISEEVDL  
YRQLSLAGRVGLHYSSTVARKLINPKYALVSGCRHPPGEMMRWAARQQREAGNPEGQEE  
GASGGESAWRLESFLKDLVTVEQVLPPEV IPLGELS QK DGRMVSHMRDLKPKSREAPS  
RNGMGEAARGEAAPARRFSSRLFSRRAKRPAAPNGMASSVSTETSEVEFLTGKRPNENSS  
ADISGKTSPSSAKPSNCVIS

>sp|Q8N5H3|FA89B\_HUMAN Protein FAM89B OS=Homo sapiens GN=FAM89B PE=1 SV=2

MNGLPSAEAPGGAGCALAGLPPLPRGLSGLLNASGGSWRELERVYSQRSRIHDELSRAAR  
APDGPRHAAGAANAGPAAGPRRPVNLDALAALRKEMVGLRQLDMSLLCQLWGLYESIQD  
YKHL CQDL SFCQDLSSSLHSDSSYPDAGLSDDEEPPDASLPDPPPLTVPQTHNARDQW  
LQDAFHISL

>sp|Q13158|FADD\_HUMAN FAS-associated death domain protein OS=Homo sapiens GN=FADD PE=1  
SV=1

MDPFLVLLHSVSSSLSSSELTELKFLCLGRVGKRKLERVQSGLDLFSMLLEQNDLEPGHT  
ELLRELLASLRRHDLRRVDDFEAGAAAGAAPGEEDLCAAFNVICDNVGKDWRRRLARQLK  
VSDTKIDSIEDRYPRNLTERVRESLRIWKNTENATVAHLVGALRSCQMNLVADLVQEV  
QQARDLQNRSGAMSPMSWNSDASTSEAS

>sp|Q9H098|F107B\_HUMAN Protein FAM107B OS=Homo sapiens GN=FAM107B PE=1 SV=1

MAEPDYIEDDNPELIRPQKLINPVKTSRNHQDLHRELLMNQKRLAPQNKPELQKVMKLR  
KRDQVIKQKEEAQKKKSDLEIELLKRQKLEQLELEKQKLQEEQENAEFVKVKGNLRR  
TGQEVAAQES

>sp|Q9C073|F117A\_HUMAN Protein FAM117A OS=Homo sapiens GN=FAM117A PE=1 SV=1

MAGAAAGGRGGGAWGPGRGGAGGLRRGCSPAPAGSPRAGLQPLRATIPFQLQQPHQRRD  
GGGRAASVPCSAPEKSVCRPQLQVRRTFSLDTILSSYLLGQWPRDADGAFTCCTNDKA  
TQTPLSWQLEGERASSCAHKRSASWGSTDHRKEISKLKQQLQRTKLSRSGKEKERGSPL  
LGDHAVRGALRASPPSFGSPVLRLSPCLHRSLEGLNQELEEVFVKEQGEEELLRLDI  
PDGHRAPAPPQSGCDHPLLLLEPGNLASSPSMLASPQPCGLASHEEHRGAAEELASTP  
NDKASSPGHPAFLEDGSPSPVLAFAASPRPNHSYIFKREPPEGCEKVRVFEEATSPGPD  
AFLTSCPDKNKVHFNPTGSAFCPVNLMKPLFPGMGFIFRNCPSNPGSPLPPASPRPPPRK  
DPEASKASPLPFEPWQRTTPSEEPVLFQSSLMV

>sp|Q9NZB2|F120A\_HUMAN Constitutive coactivator of PPAR-gamma-like protein 1 OS=Homo  
sapiens GN=FAM120A PE=1 SV=2

MGVQGFQDYIEKHCPSAVVPVELQKLARGSLVGGGRQRPPQTPLRLVDADNCLHRLYGG  
FYTDWVSGGQWNHMLGYLAALAKACFGGNIELFVFFNGALEKARLHEWVKRQGNERQTAQ  
QIVSHVQNKGTTPPKVWFLPPVCMACHIRLALIRFHVKVAQSIEDHHQEVI GF CRENGFH  
GLVAYDSYALCNIPYYFSAHALKLSRNGKSLTTSQYLMHEVAKQLDLNPNRFP IFAALL  
GNHILPDEDLASFHWSLLGPEHPLASLKVRAHQLVLP CDVVIKAVADYVRNIQDTS DLD  
AIAKDV FQHSQSR TDDK V I RFKRAI GYYSATSKPMSFHPPHYLAARPGPF GMPGMVPPHV  
PPQMLNIPQTS LQAKPVAPQVPSPGGAPGQGPYPYSLSEAPLTLDTSGKNLTEQNSYSN  
IPHEGKHTPLYERSSPINPAQSGSPNHVDSAYFPGSSTSSSSDNDEGSGGATNHISGNKI  
GWEKTGSHSEPQARGDPGDQTKAEGSSTASSGSQLAEGKGSQMGTVQPIPCLLSMPTRNH  
MDITTPPLPPVAPEVLVAEHRHKKGLMYPYIFHVLTKGEIKIAVSIEDEANKDLPPAAL  
LYRPVRQYVYGVLFSLAESRKTERLAFRKNRLPPEFSPV I I KEWAAYKGKSPQTPELVE

ALAFREWTCPNLKRLWL GKAVEDKNRRMRAFLACMRSDTPAMLN PANVP THLMVLCCVLR  
YMWQWPGARILRRQELDAFLAQA LSPKLYEPDQLQELKIENLDPRGIQLSALFMSGVDMA  
LFANDACGQPIPWEHCPCWMYFDGKLFQSKLLKASREKTPLIDLCDGQADQAAKVEKMRQ  
SVLEGLSFSRQSHTLPFPPPPALPFYPASAYPRHFGVPVPSQGRGRGFAGVCGFGGPYGE  
TVATGPYRAFRVAAA SGHCGAFSGSDSSRTSKSQGGVQPIPSQGGKLEIAGTVVGHWAGS  
RRGRGGRGPFPLQVVS VGGPARGRPRGVISTPVIRT FGRGGRYGRGYKNQAAIQGRPPY  
AASAEVAKELKSKSGESKSSAMSSDGLAENGVM AEKPAPQMNGSTGDARAPSHSESA  
LNDSKTCNTNPHLNALSTDSACRREAALEAAVLNKEE

>sp|Q9NX05|F120C\_HUMAN Constitutive coactivator of PPAR-gamma-like protein 2 OS=Homo sapiens GN=FAM120C PE=2 SV=3

MGVQGFQEFLEKRCPGAVVPVDLLKLARTVSRQQQQHLHRQLPPTAALAPGAPRAARGS  
VPLQPPLPPAALGAYSGGAGPIRHHHPAHHFHHHQAQPLHPPLPPPPPPQLPGARVLV  
DAGSALPRLYGGYQTDWVCGGQWNAMLGYSALCQACAYPGDGLELVVMFPGGLGKDRL  
AEWGRRCAERQTAQLIVGHVGNKGTPPPRAWFLPPACL SHCVRLALIRFRVKVFQSLD  
HHLEVVAFFRENGFHGLLAHDSEYALYNIPSYSSHAKLSWNGKNLT TNQFLMQEVAKQ  
LGLKRMNFPIFAALLGNHILPDEDLAAFWHSLLGPEHPLASLKVRAHQVLVPPCDVVIKA  
VSEYVSSIKDPSNLDVVGKDVFKQSQRTE DKIERFKKAVEYYSVTTKLSSLPVGPSFLG  
FRNNRLGNPPLPRNQVGTISAGKPMFSHQVPQKVYPPPPFVGPNSSLLFSSHALGESHA  
FSEDPMLQNSPFANWAVSYDSSASQFPNYLPSKASPPLGPDSSSSSDGDEPNGASSDH  
ITEAFHHQPEWGNPNRDRGSAQPVDTGVSEASLGDEPHIPSLLSMSTRNHMDITIPPL  
PPVAPEVL RVAEHRHRRGLMYPYIYHVLTKGEIKIPVCIEDECNMELPPAALLFRSARQY  
VYGVLFSLAETQRKMERLAMRRRLPVEVPSVILKEWSAYKGKSPQTPELVSALT FREWTC  
PNLKKLWL GKAVEDKNRRMRAFLACMKSDTPSMLN PANVP THLLMCCVLR YMWQWPGGR  
ILHRHELD TFLAQAVSTQLYEPDRLQELKIEKLDARGIQLAALFMSGVD TALFANDACGQ  
PVPWEHCPCWIYFDGKLFQSKLIKAGRERSLVELCDGQADLATKVEKMRQSILEGVNMN  
HPPPSALLPSPTFVPPMVPSLYPVSLYSRAMGSMPLPPQGRSRGFAGLHP IPPQGGKLEI  
AGMVVGQWAGSRSSRGRGSFGMQVVS VGGPGKGHGKEQTGRGSKGHKKGNKQGSSDGVSK  
SLELHQGRSRSQVNGNSGALIKEEKSDHRLPAPSQCALSRDSNECNNGNRYLPMNNREKN  
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>sp|Q7Z309|F122B\_HUMAN Protein FAM122B OS=Homo sapiens GN=FAM122B PE=1 SV=2

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EGLDMVNRETAHEREMQTAMQISQSWDESLSDSDFDKPEKLYSPKRIDFTPVSPAPSP  
TRGFGKMFVSSSGLPPSPVPSPRRFSRRSQSPVKCIRPSVLGPKRKGEMETESQPKRLF  
QGTTNMLSPDAAQLSDLSSCSIDLGSSSSSGLSSDPLAKGSATAESPVACSNSSCSFIL  
MDDLSPK

>sp|Q96GL9|F163A\_HUMAN Protein FAM163A OS=Homo sapiens GN=FAM163A PE=2 SV=1

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TCNACSSQALDGRGSLAPLTSEPCSQPCGVAASHCTTCSPISSPFYIRTADMVPNGGGGE  
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>sp|Q86V87|F16B2\_HUMAN Protein FAM160B2 OS=Homo sapiens GN=FAM160B2 PE=2 SV=2

MLSRLGALLQEAVGAREPSIDLLQAFVEHWKGITHYIESTDESTPAKKT DIPWRLKQML  
DILVYEEQQQAAAGEAGPCLEYLLQHKILETLCTLGKA EYPPGMRQQVFQFFSKVLAQVQ  
HPLLHYLSVHRPVQKLLRLGGTASGSVTEKEEVQFTTVLCSKIQDPPELLAYILEGKKIV  
GRKKACGEPTALPKD TTSHGDKDCSHDGAPARPQLDGESCGA QALNSHMPAETEELDGGT



TESNLITSLGLQC SKSRVALKAQENLLLLVSMASPAATYLVQSSACCPAIVRHLCQL  
YRSMPVFLDPADIATLEGISWRLPSAPSDEASFPGKEALAAFLGWFDYCDHLITEAHTVV  
ADALAKAVAENFFVETLQPQLLVHSEQSILTSTALLTAMLRQLRSPALLREAVAFLGTD  
RQPEAPGDNPHTLYAHLIGHCDHLSDEISITTLRLFEELLQKPHEGIIHSLVLRNLEGRP  
YVWGSPEPESYEDTLDLEEDPYFTDSFLDSGFQTPAKPRLAPATSYDGKTAVTEIVNSF  
LCLVPEEAKTSAFLEETGYDTYVHDAYGLFQECSSRVASWGWPLTPTPLDPHEPERPFFE  
GHFLRVLFDRMSRILDQPYSLNLQVTSVLSRLALFPHPHIHEYLLDPYISLAPGCRSLFS  
VLVRVIGDLMQRIQVRPQFPGKLLLVRKQLTGQAPGEQLDHQTLQGVVVLEEFCKELAA  
IAFVKFPPHDPQRQNVSPAPEGQV

>sp|Q6UWZ7|F175A\_HUMAN BRCA1-A complex subunit Abraxas OS=Homo sapiens GN=FAM175A PE=1  
SV=2

MEGESTSAVLSGFVLGALAFQHLNTSDTEGFLLGEVKGEAKNSITDSQMDDVEVVYTID  
IQYIPCYQLFSFYNSSGEVNEQALKKILSNVKNVVGWYKFRRHSDQIMTFRERLLHKN  
LQEHFSNQDLVLLLLTPSIIITESCSTHRLHSYKPKGLFHRVPLVANLGMSEQLGYK  
TVSGSCMSTGFSRAVQTHSSKFEEEDGSLKEVHKINEMYASLQEELKSICKKVEDSEQAV  
DKLVKDVNRLKREIEKRRGAQIQAAAREKNIQKDPQENIFLCQALRTFFPNSEFLHSCVMS  
LKNRHVSKSSCNYNHHLDVVDNLTLMVEHTDIPEASPASTPQIIKHKALDLDLRWQFKRS  
RLLDTDQDKRSKADTGSSNQDKASKMSSPETDEEIEKMGFGEYSRSPTF

>sp|A6PYY3|F177B\_HUMAN Protein FAM177B OS=Homo sapiens GN=FAM177B PE=2 SV=1

MEIDGFQQLDLEKSVPSKKTTPKRIIHFDVGDIMEEYSTEEEEEEEEEQSTNSTLDPSK  
LSWGPYLRFWAGRIASTSFSTCEFLGGRFAVFFGLTQPKYQYVLNEFYRIQNKKSDNKSE  
RRGSKAQAAEVPNEKCHLEAGVQEYGTIQQDVTEAIPQ

>sp|Q5T1J6|F182A\_HUMAN Protein FAM182A OS=Homo sapiens GN=FAM182A PE=2 SV=1

MQGIDRWIPSIPPLQNHSAVNRHFSAPQKLHADCEKEMLDGGVPGTTVRVSFDFSCLEM  
VRELWMWVNEEEHEVGISTWGGQHCGCPAKSLPGPHPGGVSAPQSASQLMVKLLVWQKS  
VHKLRKIAAQSEEWSCVLNKISTHPFVSKEHDGT

>sp|Q6ZVS7|F183B\_HUMAN Protein FAM183BP OS=Homo sapiens GN=FAM183BP PE=5 SV=2

MAGHPKERVVTDEVHQNLRELYLKELRTQKLHTQYHVNPLRKVHRITRKPMWHDNLE  
EPADARFLNLIHHAQGPSTKKYPEAQTENQEIGWDSEALVDPERRDHRMNHFRVYSDITL  
YKAKMWSLGEDDRHK

>sp|Q8NB25|F184A\_HUMAN Protein FAM184A OS=Homo sapiens GN=FAM184A PE=2 SV=3

MATPGMSWQQHYGSAAKFAPSPATAQLAGHSMDYSQEMHLKMSKKIAQLTKVIYALNT  
KNDEHESAIQALKDAHEEEIQILAE TREKILQYKSKVTEELDLRRKIQVLESSLEDHIK  
MKQQALTEFEAYKHRVEDMQLCAEAQHVRIVTMSREVEEIRRKFEEKLRSFGQLQVQFE  
KDKRLALEDLQAAHREIQELLKSQQDHSASVNKGQEKAEELHRMEVESLNKMLEELRLE  
RKKLIEDYEGKLNKAQSFYERELDTLKRSQLFTAESLQASKEADLRKEFGQEAILRK  
TIGKLKTELQMVQDEAGSLDKCQKLQTALAI AENNVQVLQKQLDDAKEGEMALLSKHKE  
VESELAARERLQQASDLVLKASHIGMLQATQMTQEVTIKDLESEKSRVNERLSQLEEE  
RAFLRSKTQSLDEEQKQILELEKKVNEAKRTQQEYYERELKNLQSRLEEEVTQLNEAHS  
KTLEELAWKHHMAIEAVHSNAIRDKKKLQMDLEEQHNDKLNLEEDKNQLQQELENLKEV  
LEDKLN TANQEIGHLQDMVRKSEQGLGSAEGLIASLQDSQERLQNELDTKDSLKETKDA  
LLNVEGELEQERQQHEETIAAMKEEEKLVKDKMAHDLEIKWTENLRQESKLEELRLQH  
EEDKKSAMSQQLQLKDREKNAARDSWQKKVEDLLNQISLLKQNLEIQLSQSQTSLQQLQA  
QFTQERQRLTQELEELEEQQQRHKSLEAHVLAFTMEEKEKEQRALENHLQQKHS AE

LQSLKDAHRESMEGFRIEMEQLQTLRFELEDEGKAMLASLRSELNHQHAAAIDLLRHNH  
HQELAAAKMELERSIDISRRQSKEHICRITDLQEELRHREHHISELDKEVQHLHENISAL  
TKELEFKGKEILRIRSESNQQLRHEQDLNKRLEKELDVMTADHLREKNIMRADFNKTNE  
LLKEINAALQVSLEEMEEKYLMRESKPEDIQMITEKAMLTEDQIIKKLIEDNKFYQLE  
LVNRETNFNKVFNSSPTVGVINPLAKQKKKNDKSPTNRFVSPNLSALESGGVGNGHPNR  
LDPIPNSPVHDIEFNSSKPLPQVPVPPKGPKTFLSPAQSEASPVASPDPPQRQEWFAFYFTF

>sp|Q4G0A6|F188B\_HUMAN Probable ubiquitin carboxyl-terminal hydrolase FAM188B OS=Homo sapiens GN=FAM188B PE=1 SV=2

MDSLVEEVAASLVREFLSRKGLKKTCTVMDQERPRSDLSINNRNDLRKVLHLEFLYKEN  
KAKENPLKTSLELITRYFLDHFNTANNFTQDTPIPALSVPKNNKVPsrcSETTLVNIY  
DLSDDEDAGWRTSLSETSKARHDNLDGDLGNFVSSKRPPHKSKPMQTVPGETPVLTSawe  
KIDKLHSEPSLDVKRMGNSRPKSGLIVRGMMSGPIASSPQDSFHRHYLRSSPSSSTQ  
PQEESRKVPELfvCTQQDILASSNSSPSRTSLGQLSELtVERQKTtASSPPhLPSKRLPP  
WDRARPRDSEDTPAVDGSTDTDRMPLKLYLPGGNSRMTQERLERAFKRQGSQPAPVRKN  
QLLPSDKVDGELGALRLLEDVEDELIREEVILSPVPSVLKLQTASKPIDLSVAKEIKTLLF  
GSSFCCFNEEWKLQSFsfsNTASLKYGIVQNKGGPCGVLAAVQGCVLQKLLFEGDSKADC  
AQGLQPSDAHRTRCLVLALADIVWRAGGRERAVVALASRTQQFSPTGKYKADGVLETlTL  
HSLTCYEDLVtFLQqSIHQFEVGPYGCILLtLSAILSRSTELIRQDFDVPTSHLIGAHGY  
CTQELVNLLLtGKAVSNVFNDVVELDSDGDNITLLRGIAARSDIGFLSLFEHYNMCQVGC  
FLKTPRFPIWVVCSESHFSILFSLQPGLLRDWRTERLFDLYYYDGLANQQEQIRLTIDTT  
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>sp|Q9NSI2|F207A\_HUMAN Protein FAM207A OS=Homo sapiens GN=FAM207A PE=1 SV=2

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SALVQKLELDVRSVtSVRRGEAGSSARSVPSIRRGAEAKTVLPKKEKMKLRREQWLQKIE  
AIKLAEQKHREERRRRATVVVGDHLPLRDALPELLGLEAGSRRQARSRESNKPRPSELsr  
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>sp|Q5VWN6|F208B\_HUMAN Protein FAM208B OS=Homo sapiens GN=FAM208B PE=1 SV=1

MAPPAHKSILERSENVLMSPPWKGLIVQDRMLCDIALWSTYGAMIPtQLPQELDFKYVMK  
VSSLKKRLPEAAFRKQNYLEEKVCFQDLCFNLYEVELSNRQGENIDKLTecIKNKQLAI I  
KCLEDRGFFILLtSSALLSEPDFGGKQMGLHGLHLFRSPLSTGVKDLKVEDDISMKVIpI  
LSTLNCALLEtTKSLPEERIHNPtLVKRHFQELYKADRSPSLSVAPQDRMKDPTFLGKLP  
SGFDLIPPAEKCPSESLtQLNSYFSDPSAYILEVStALDLAEHPQSPCVSDGICDAGFS  
LVMTDPPEFLVSEAEVRKETETtkKDSEEMLKAKKRVFPLSPASNLRVQPKRKASMPHMVQ  
SKKVNLCRPFPKRTASRADNSSDSPTTLKLvKGQFPQKRKRGAeVLtAQFVQKTKLDRKN  
QEAPISKDVPVPTNAKRARKQEKSPVKTVPRAKPPVKKSPQKQRVNIvKGNENPRNRKQL  
QPVKGETASKLQSEISRGcQEDGISINSVQPENTtAAHNDLPENSIVNYDSQALNMLADL  
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SDRKNSGSDLtVSQDEESLVPCSQAPAKAQsALTEEMLESSDASQSSSVSVEHSYALLL  
TEHsKKHLQEREILSPLFPRNGTKSPeAATPVGKVMPFRHQPGLLLQqKPPDDPVVKPKD  
RPPSARVKKSSCSRIvLSCDDSVKItFKCETeYAFSLDSKYTNnPLEKtVVRA LHGPWNT  
DLPDNVEEVKLLLHMWVALFYsNQNKIIRSSRKVVEHSNPAKYVSINSTLESCElREIEE  
SLGLEKCSADSLLETNEISRahAAEVsFRDPNCLLPfIKTPLtQGLELCVQNEQKKtFAR  
ECDPDTQEDQNFIcSYNNEVTGEEAKQESLETsNLVLSGIGStQTNGPSVPSEEEIVQPL  
DSTRVASYSgtVTQATfTRtYDGPgSQPVICQSSVYGTLENKVDILDAAVQTKTGTLQDL

IQHGSPINNECHPSLERKDDNMGCAVINPEPITLTFEKNAHVPIQTEGVNTADERTTFKK  
ELIKQVSPAASLRHPVSTSENARTQGLRDIPSLVVAGQKGTKYLCASSVGGETLDKAVCS  
LQKETPLPVSLPSDKTMVMEALSLAKSSSHLSPSEEVRCQDFLSQTQSLLGLSSEGLLE  
LTQVEVDSSASTTLGRQCSLNCISSGCHTSGDSLELRKNHKNPNTENMNLEAFDSVFI  
KQTSLSVSREVSLELSEEDSDIDLALTISPPTSPREEMPAGEIEQFEEAPFSNLELQDVA  
EEIGEPEEVALTESREVSSADNVSVYPSVSEEPVENKERKGDNLQPVTLILSKENCTLEI  
AEEINVTSDFPFDSVIEEVSPASSEPEPPVPVKETRPYQAVTPCILKLHGTQCEKSNQISQ  
CESEDLGITEKENVFGPTHVPVGGDNFTQVQQMQVSAEMPLILTDHPGRTGRPTLP GKVT  
EEIVSSEHDEGLSFGSKVQCYGRELNQPASAAKCTGDFSPSPEKLVKSGNPLQPVSIENR  
NLDLKHLVLESSEPPFGPRNVIENKSLSDTLVSTTAPSGIVNVSVKQQTSPKSSQNHLFP  
GDLKTDEGIYLQVKSLTAASVDGAYSTQGCMCSVVPTLCSSSDNATLTHYVRPINAEPVF  
QAQEIAPAGRMASLLKNGEPEAEHLKETTGPGTAGPQSNTTSSLKGERKAIHTLQDVSTCE  
TKELNVGVSSLCAGPYQNTADTKENLSKEPLASFVSESFDTSVCGIATEHVEIENSGEG  
LRAEAGSETLGRDGEVGVNSDMHYELSGDSDLDLLGDCRNPRLDLEDSTLRGSYTRKKD  
VPTDGYESSLNFNHNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEKCVPPYVQIRDLHG  
ILRTYANFSITKELKDTMRTSHGLRRHPSFSAACGLPSSWTSTWQVADDLTQNTLDLEYL  
RFAHKLKQTIKNGDSQHSASSANVFPKESPTQISIGAFPSTKISEAPFLHPAPRSRSPLL  
VTTVESDPRPQGQPRRGYTASSLDSSSSWRERCSHNRDLRNSQRNHTVSFHLNKLKYNST  
VKESRNDISLILNEYAEFNKVMKNSNQFIFQDKELNDVSGEATAQEMYLPFPGRSASYED  
I I IDVCTNLHVKLRSVVKEACKSTFLFYLVETEDKSFFVRTKNLLRKGHTEIEPQHFCQ  
AFHRENDTLIIII RNEDISSHLHQIPSLKLKHFP SVIFAGVDSPGDVLDHTYQELFRAG  
GFVISDDKILEAVTLVQLKEIIKILEKLNGNRWKWLLHYRENKKLKEDERVDSTA HKKN  
IMLSKFQSANIIELHLYHQCDRSSTKAEILKCLLNLQIQHIDARFAVLLTDKPTIPREV  
FENSGILVTDVNNFIENIEKIAAPFRSSYW

>sp|Q5JX71|F209A\_HUMAN Protein FAM209A OS=Homo sapiens GN=FAM209A PE=2 SV=1

MWTLKSSLVLLLCLTCSYAFMFSSLRQKTSEPQGKVQYGEHFRIRQNLPEHTQGWLGSKW  
LWLLFVVVPFVILQCQRDSEKNKEQSPPGLRGGQLHSPLKKKRNASPNKDCAFNTLMELE  
VELMKFVSKVRNLKRAMATGSGSNLRLRKSEMPADPYHVTICEIWGEESS

>sp|Q96KR6|F210B\_HUMAN Protein FAM210B OS=Homo sapiens GN=FAM210B PE=1 SV=2

MAGLLALLGPAGRVGARVRPRATWLLGATAPCAPPLALALLPPRLDARLLRTARGDCRG  
HQDPSQATGTTGSSVSCTEKKQSKSQQLKKIFQEYGTGVSLHIGISLISLGIFYMVVS  
SGVDMPAILLKLGFKESLVQSKMAAGTSTFVVAYAIHKLFAVRISITLVSVPLIVRYFR  
KVGFFKPPAAKP

>sp|Q8TCE6|FA45A\_HUMAN Protein FAM45A OS=Homo sapiens GN=FAM45A PE=2 SV=1

MAAAEVADTQLMLGVGLIEKDTNGEVLWVWCYPSTTATLRNLLLRKCCLTDENKLLHPFV  
FGQYRRTWIFYITIEVPDSSILKKVTHFSIVLTAKDFNPEKYAAFTRILCRMYLKHGSPV  
KMMESYIAVLTGICQSEENGSLSKDFDARKAYLAGSIKDIVSQFGMETVILHTALMLK  
KRIVVYHPKIEAVQEFTRTLPALVWHRQDWTILHSYVHLNADELEALQMCTGYVAGFVDL  
EVSNRPDLYDVFNLAESEITIIAPLAKEAMAMGKLHKEMGQLIVQSAEDPEKSESHVIQD  
IALKTREIFTNLAPFSEVSADGEKRVLNLEALKQKRFPATENFLYHLAAAEQMLKI

>sp|Q96KT0|FAAS1\_HUMAN Uncharacterized protein FAM167A-AS1 OS=Homo sapiens GN=FAM167A-  
AS1 PE=4 SV=1

MGRSPCFKFSFKGLHKDRSPDPSTLASHPSTEARRPVEAGSAEWTGWMKRLPPASLS  
PGIAMSCYSGDMLQKYKVKNAYRLHWQGREEPGASTFASLVFQ

>sp|P05413|FABPH\_HUMAN Fatty acid-binding protein, heart OS=Homo sapiens GN=FABP3 PE=1 SV=4

MVDAFLGTWKLVD SKNFDDYMKSLGVGFATRQVASMTKPTTIEKNGDILTKTHSTFKN  
TEISFKLGVFEDETTADDRKVKSI VTL DGGKLVHLQKWDGQETTLVRELIDGKLILTLTH  
GTAVCTRTRYEKEA

>sp|P07148|FABPL\_HUMAN Fatty acid-binding protein, liver OS=Homo sapiens GN=FABP1 PE=1 SV=1

MSFSGKYQLQSQENFEAFMKAIGLPEELIQKGKDIKGVSEIVQNGKHFKFTITAGSKVIQ  
NEFTVGEECELETMTGEKVKTVVQLEGNKLVTTFKNIKSVTELNGDIITNTMTLGDIVF  
KRISKRI

>sp|Q8NFF5|FAD1\_HUMAN FAD synthase OS=Homo sapiens GN=FLAD1 PE=1 SV=1

MGWDLGTRLFQRQEQRSLRSRIWLEKTRVFLEGSTRTPALPHCLFWLLQVPSTQDPLFPG  
YGPQCPVDLAGPPCLRPLFGGLGGYWRLQRGREGRTMTSRASELSPGRSVTAGIIIVGD  
EILKGHTQDNTFFLCRTLRS LGVQVCRVSVVPDEVATIAAEVTSFSNRFTHVLTAGGIG  
PTHDDVTFEAVAQAFGDELKPHPKLEAATKALGGEGWEKLSLPSSARLHYGTDPC TGQP  
FRFPLVSVRNVYLFPGIPELLRRVLEGMKGLFQNP AVQFHSKELYVAADEASIAPILAEA  
QAHFGRRLGLGSYPDWGSNYYQVKLTLDSEEEGPLEECLAYLTARLPQGS LVPYMPNAVE  
QASEAVYKLAESGSSLGKKVAGALQTIETSLAQYSLTQLCVGFNGGK DCTALLHLFHAAV  
QRKLPDVPNPLQILYIRSISPFELEQFLQDTIKRYNLQMLEAGSMKQALGELQARHPQ  
LEAVLMGTRRTDPYSCSLCPFSPTDPGWPAFMRINPLLDW TYRDIWDFLRQLFVPYCILY  
DRGYTSLG SRENTVRNPALKCLSPGGHPTYPAYLLENEEEERNSRT

>sp|Q9UNN5|FAF1\_HUMAN FAS-associated factor 1 OS=Homo sapiens GN=FAF1 PE=1 SV=2

MASNMDREMILAD FQACTGIENIDEAITLLEQNNWDLVAAINGVIPQENGILQSEYGGET  
IPGPAFNPASHPASAPTSSSSSAFRPVMPSRQIVERQPRMLDFRVEYRDRNVDVLEDTC  
TVGEIKQILENELQIPVSKMLLKGWKTGDVEDSTVLKSLHLPKNNSLYVLT PDLPPPSSS  
SHAGALQESLNQNFMLIITHREVQREYNLNFSGSSTIQEVKRNVDLT SIPVRHQLWEGW  
PTSATDDSMCLAESGLSYPCHRLTVGRRSSPAQTREQSEEQITDVH MVSDSDGDDFEDAT  
EFGVDDGEVFGMASSALRKSPMPENAENEGDALLQFTA EFSSRYGDCHPVFFIGSLEAA  
FQEAFYVKARDRKL LAIYLHHD ESVLTNVFCSQMLCAESIVSYLSQNFITWAWDLTKDSN  
RARFLTMCNRHFGSVVAQTIRTQKTDQFPLFLIIMGKRSSNEVLNVIQNTTVDELM MRL  
MAAMEIFTAQQQEDIKDEDEREARENVKREQDEAYRLSLEADRAKREAHREMAEQFRLE  
QIRKEQEEEREAIRLSLEQALPPEPKEENAEPVSKLRIRTPSGEFLERRFLASNKLQIVF  
DFVASKGFPWDEYKLLSTFPRRDVTQLDPNKS LLEVKLFPQETLFLEAKE

>sp|Q9NVQ4|FAIM1\_HUMAN Fas apoptotic inhibitory molecule 1 OS=Homo sapiens GN=FAIM PE=1 SV=1

MTDLVAVWDVALSDGVHKIEFEHGTTS GKRVVYVDGKEEIRKEWMFKLVGKETFYVGAAK  
TKATINIDAISGFAYEYTL EINGKSLKKYMEDRSKTTNTWVLHMDGENFRIVLEKDAMDV  
WCNGKKLETAGEFVDDGTETHFSIGNHDCYIKAVSSGKRKEGIIHTLIVDNREIPEIAS

>sp|Q5TZK3|FAM74\_HUMAN Protein FAM74A4/A6 OS=Homo sapiens GN=FAM74A4 PE=1 SV=1

MWRELRCGPGGDVETAQRLSQRRRGKSSEAVPEKTWRAQRMSQRRRGESSEAVPEKTWKE  
LRNSETVPEK TWKQLRGCLQEDVQRVQRLSRRRHGESSKAVHKMMWREFRGCRCYCCTWLF  
FFG

>sp|Q8IZT9|FAM9C\_HUMAN Protein FAM9C OS=Homo sapiens GN=FAM9C PE=1 SV=1

MAAKDQLEVQVMAAQEMELAGKDPVSHEHEERKPV TETKEGDVTDEHGERGSFAETDEHT

GVDTKELEDIAADIKHEHLAAKRKRIEKIAKACSEIKNRINKVLRRTTQLKRQKRDYRISLK  
LPNVLEEFITDEQKDEEGDGEKEEQIKIFQEQQKRWQQDGKGTED

>sp|Q9Y2M0|FAN1\_HUMAN Fanconi-associated nuclease 1 OS=Homo sapiens GN=FAN1 PE=1 SV=4

MMSEGKPPDKRPRRSLSISKNNKASNSIISCFNNAPPAKLACPVCSKMVPYDLNRHL  
DEMCANNDVQVDPGQVGLINSNVSMVDLTSVTLEDVTPKKSPPPKTNLTPGQSDSAKRE  
VKQKISPYFKSNDVVCNQDELNRNSVKVICLGSLASKLSRKYVKAKKSIDKDEEFAGSS  
PQSSKSTVVKSLIDNSSIEDEDQILENSSQKENVFKCDSLKEECIPEHMRGSKIMEAE  
SQKATRECEKSALTPGFSDNAIMLFSPDFTLRNTLKSTSEDSLQKQECIKEVVEKREACH  
CEEVMTVASEAKIQLSDSEAKSHSSADDASAWSNIQEAPLQDDSCLNNDIPHSIPLEQG  
SSCNGPGQTTGHPYYLRSFLVLKTVLENEDDMLLFDEQEKGIVTKFYQLSATGQKLYVR  
LFQRKLSWIKMTKLEYEEIALDLTPVIEELTNAGFLQTESELQELSEVLELLSAPELKSL  
AKTFHLVNPNGQKQLVDAFLKLAKQRSVCTWGKNKPGIGAVILKRAKALAGQSVRICKG  
PRAVFSRILLFSLTDSMEDEDAACGGGQLSTVLLVNLGRMEFPSYTINRKTHIFQDRD  
DLIRYAAATHMLSDISSAMANGWEEAKELAQCAKRDWNRLKNHPSLRCHEDLPLFLRCF  
TVGWYITRILSRFVEILQRLHMYEEAVRELESLSQRIYCPDSRGRWDRALNLHQHLK  
RLEPTIKCITEGLADPEVRTGHRSLYQRAVRLRESPCKKFKHLFQQLPMAVQDVKHV  
TITGRPCPQRMCKSVFVMEAGEAADPTTVLCSVEELALAHYRRSGFDQGIHGEGSTFST  
LYGLLLWDIIIFMDGIPDVFRNACQAFPLDLCTDSFSTSRRPALEARLQLIHDAPEESLRA  
WVAATWHEQEGRVASLVSWDRFTSLQQAQDLVSCLGGPVLSGVCRLAADFRRHCRGGLPD  
LVVWNSQSRHFKLVEVKGPNDRLSHKQMIWLAELQKLGAEEVEVCHVAVGAKSQSLS

>sp|Q8NB91|FANCB\_HUMAN Fanconi anemia group B protein OS=Homo sapiens GN=FANCB PE=1 SV=1

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STGFFTKEENSHLKIMCCNCVSDFRTGINLPYIVIEKNKNNVFEYFLLILHSTNKFEM  
RLSFKLGYEMKDGLRVLNGLILWRHVKAFFFISSQTGKVSVSGNFSSIQWAGEIENLG  
MVLLGLKECCLSEEECTQEPSKSDYAIWNTKFCVYSLESQEVLSDIYIIPPAYSSVVTYV  
HICATEI IKNQLRISLIALTRKNQLISFQNGTPKNVCQLPFGDPCAVQLMDSGGGNLFFV  
VSFISNNACAVWKESFQVAAKWEKLSVLIDDFIGSGTEQVLLLFKDSLNSDCLTSFKIT  
DLGKINYSSEPSDCNEDDLFEDKQENRYLVVPLETGLKVCFSFRELQHLKLLKEKIIIS  
KSYKALINLVQKDDNTSSAEKECLVPLCGEEENSVHILDEKLSDNFQDSEQLVEKIWY  
RVIDDSL VVGKTTSSLKLSLNDVTL SLLMDQAHSRFRLLKCQNRV IKLSTNPF PAPYL  
MPCEIGLEAKRVTLPD SKKEESFVCEHPSKKECVQIITAVTSL SPLTFSKFCCTVLLQ  
IMERESGNC PKDRYVVCGRVFLSLEDLSTGKYLLTFPKKKPIEHMEDLFALLAAFHKSCF  
QITSPGYALNSMKVWLEHMKCEI IKEFPEVYFCERPGSFYGT LFTWKQRTPFEGILIIY  
SRNQTVMFQCLHNLIRILPINCFLKNLKSSENFLIDNMAFTLEKELVTLSSLSSAIAKH  
ESNFMQRCEVSKGKSSVAAALSDRRENIHPYRKELQREKKKMLQTNLKVSGALYREITL  
KVAEVQLKSDFAAQKLSNL

>sp|O15287|FANCG\_HUMAN Fanconi anemia group G protein OS=Homo sapiens GN=FANCG PE=1 SV=1

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PAAVPVLPLELTVTCNFII LRASLAQGFTEDQAQDIQRSLERVLETQEQQGPRLEQGLRE  
LWDSVLRASCLLPELLSALHRLVGLQAALWLSADRLGDLALLLETNGSQSGASKDLLLL  
LKTWSPPAEELDAPLTLQDAQGLKDVLLTAFAYRQGLQELITGNPDKALSSLHEAASGLC  
PRPVLVQVYTALGSCHRKMGNPQRALLYLVAALKEGSAWGPPLEASRLYQQLGDTTAE  
ESLELLVEALNVPCCSKAPQFLIEVELLLPPPDLASPLHCGTQSQTKHILASRCLQTGRA  
GDAAEHYLDLLALLLDSSEPRFSPPSPPGPCMEVFLEAAVALIQAGRAQDALTLCEEL

LSRTSSLLPKMSRLWEDARKGTKELPYCPLWVSATHLLQGQAWVQLGAQKVAISEFSRCL  
ELLFRATPEEKEQGAAFNCEQGCKSDAALQQLRAAALISRGLEWVASGQDTKALQDFLLS  
VQMCPCGNRDYTHLLQTLKRLDRRDEATALWWRLEAQTGSHEDALWSLPLYLESYLSWI  
RPSDRDAFLEEFRTSLPKSCDL

>sp|Q9BX63|FANCI\_HUMAN Fanconi anemia group J protein OS=Homo sapiens GN=BRIP1 PE=1 SV=1

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LAWQQSLSGKPADEGVSEKAQVQLSCCCACHSKDFTNNDMNQGTSRHFNYPSTPPSERNG  
TSSTCQDSPEKTTAAKLSAKKQASIRDENDDFQVEKKRIRPLETTQQIRKRHCFGTEV  
HNLDKVDSDGKTVKLNPLEKINSFSPQKPPGHCSRCCSTKQNSQESSNTIKDHTGK  
SKIPKIYFGTRTHKQIAQITRELRRATAYSGVPMITLSSRDHTCVHPEVVGNFNRNEKCME  
LLDGKNGKSCYFYHGVHKISDQHTLQTFQGMCKAWDIEELVSLGKKLKACPYTARELIQ  
DADIIFCPYNYLLDAQIRESMDNLKEQVVILDEAHNIEDCARESASYSVTEVQLRFARD  
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GITTATFPIQGHSFAVLQKEEKISPIYGKEEAREVPVISASTQIMLKGLFMVLDYLFQR  
NSRFADDYKIAIQQTYSWTNQIDISDKNGLLVLPKNKKRSRQKTAVHVLNFWCLNPAVAF  
SDINGKVQTIIVLTSGTSPMKSFSSSELGVTFTIQLEANHIKNSQVWVGITIGSGPKGRNL  
CATFQNTETFEFQDEVGALLSVCQTVSQGILCFLPSYKLEKLKERWLSTGLWHNLELV  
KTVIVEPQGGKTNFDELLQVYDAIKYKGEKDGALLVAVCRGKVSEGLDFSDDNARAVI  
TIGIPFPNVKDLQVELKRQYNDHHSKLRGLLPGRQWYEQAYRALNQALGRCIRHRNDWG  
ALILVDDRFRNPNPSRYISGLSKWVRQQIQHHSTFESALESIAEFKSKHKVNLNVS IKDRT  
NIQDNESTLEVTSLKYSTPPYLLEAAHLSPENFVEDEAKICVQELQCPKIITKNSPLPS  
SII SRKEKNP VFLEEAGKAEKIVISRSTSPTFNKQTKRVSWSFNSLGQYFTGKIPKAT  
PELGSSSENSASSPPRFKTEKMEKSTVLPFTDKCESSNLTVNTSFGSCPQSETIISSLKID  
ATLTRKNHSEHPLCSEEALDPDIELSLVSEEDKQSTSNRDFETEAEDESIYFTPELYDPE  
DTDEEKNDLAETDRGNRLANNSDCILAKDLFEIRTIKEVDSAREVKAEDCIDTKLNGILH  
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>sp|Q8IYD8|FANCM\_HUMAN Fanconi anemia group M protein OS=Homo sapiens GN=FANCM PE=1 SV=2

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AAVVMYNFYRWFPSGKVVFMAPTKPLVTQQIEACYQVMGIPQSHMAEMTGSTQASTRKEI  
WCSKRVLFLTPQVMVNDLSRGACPAAEIKCLVIDEAHKALGNYAYCQVRELVKYTNHFR  
ILALSATPGSDIKAVQQVITNLLIGQIELRSEDSPDILTYSHERKVEKLIVPLGEELAAI  
QKTYIQILESFAISLIQRNVLMRRDIPNLTKYQIILARDQFRKNPSNIVGIQQGIIIEGE  
FAICISLYHGYELLQQMGMRSLYFFLCGIMDGTGKMTSKNELGRNEDFMKLYNHLECMF  
ARTRSTSANGISAIQQGDKNKKFVYSHPKLKKLEEVVIEHFKSWNAENTTEKKRDETRVM  
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SIFSYPDGMQRSSSLKKDWFLEEEFKLWNRLYRLRDSDEIKEITLPQVQFSSLQNEENKP  
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KQTHIKPTKIVSLKKKVSKEIKKDQLKKENNHGII DSVDNDRNSTVENIFQEDLPNDKRT  
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LPFEEELYIVRTDDQFYNCHSLTKEVLANVERFLSYSPPLSGLSDLEYEIAKGTALENL

LFLPCAHLRSKCTCLLSHAVNSQQNLELNSLKCINYPSEKSCLYDIPNDNISDEPSL  
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NTEFDDVSLSPNSKSESLPVSDKTAISETPLVSQFLISDELLLDNNSELQDQITRDANS  
FKSRDQGRGVQEEKVKNHEDIFDCSRDLFSVTFDLGFCSPDSDDEILEHTSDSNRPLDDLY  
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LSPGYSQFSLPVQKKVMSTPLSKSNTLNSFSKIRKEILKTPDSSKEKVNLRKFKEALNST  
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QKNSEVDSPLHAVKKRRFPINRSELSSSDESENFKPCSQLEDFKVCNGNARRGIKVPKR  
QSHLKHVARKFLDDEAEELSEDAEYVSSDENDESENEQDSLLDFLNDETQLSQAINDSE  
MRAIYMKSLRSPMMNNKYKMIHKTKNINIFSQIPEQDETYLEDSCVDEEESCKGQSSE  
EEVCVDFNLITDDCFANSKKYKTRRAVMLKEMMEQNCASHKKLSRIILPDDSSSEENNV  
NDKRESNIAVNPSTVKKNKQDHCLNSVPSGSSAQSKVRSTPRVNPLAKQSKQTSNLKD  
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MVVERRSQSEMLNSVNKNKFIEQIQHLQSMFERICVIVEKDREKTGDTSRMFRRTKSYDS  
LLTTLIGAGIRILFSSCQEETADLLKELSLVEQRKNVGIHVPTTVNSNKSEALQFYLSIP  
NISYITALNMCHQFSSVKRMANSLSQEISMYAQVTHQKAEETIYRYIHVYFDIQMLPNDLN  
QDRLKSDI

>sp|Q6NZ36|FAP20\_HUMAN Fanconi anemia core complex-associated protein 20 OS=Homo sapiens  
GN=FAAP20 PE=1 SV=2

MEAARRPRLGLRRRPRPAGGPGGRPWFLGGDERERLWAE LLRTVSP ELILDHEVPSL  
PAFPGQEPRCGPEPTEVFTVGPKTFSWTPFPDLWGPGRSYRLLHGAGGHLESPARSLPQ  
RPAPDPCRAPRVEQQPSVEGAAALRSCPMCQKEFAPRLTQLDVDSHLAQCLAESTEDVTW

>sp|Q494R0|FBAS1\_HUMAN Putative uncharacterized protein FBXL19-AS1 OS=Homo sapiens  
GN=FBXL19-AS1 PE=5 SV=1

MAEPGGRGDYRKDGRPLSLRSPLSTTLGTSPACGLEIPPTSGARPDGSCSLPAPVYHLK  
SRQWKGMGRGYRQRWRLQGRGDCDMGCVVQASGLFPAEMRERTTKMATSPDLDCAGACW  
EM

>sp|P98095|FBLN2\_HUMAN Fibulin-2 OS=Homo sapiens GN=FBLN2 PE=1 SV=2

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CIEAVVVADSCPCQGQVGCVHAGHKYAAGHTVHLPPCRACHCPDAGGELICYQLPGCHGN  
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HRGLDGLPTTAPAGPSLPIQEERAEEAGARAEAGARPEENLILDAQTSRSTGPEGVTHAP  
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TDPNSVHSIPRSSPEGSTKDLIETCCAAGQQAIDNDECLEIPESGTEDNVCRTAQRHCC  
VSYLQEKSCMAGVLGAKEGETCGAEDNDSCGISLYKQCCDCGLGLRVRAEQSCESNPN  
LGYPCNHVMLSCCEGEEPLIVPEVRRPPEPAAAPRRVSEAEMAGREALSLGTEAELPNSL  
PGDDQDECLLLPGELCQHLCINTVGSYHCACFPGFSLQDDGRTCRPEGHPPQPEAPQEPA  
LKSEFSQVASNTIPLPLPQNPNTCKDNGPCKQVCSTVGGSAICSCFPGYAIMADGVSCEDI  
NECVTDLHTCSRGEHCVNTLGSFHCYKALTCEPGYALKDGECEVDDECAMGTHTCQPGFL  
CQNTKGSFYCQARQRCDMGFLQDPEGNCVDINETSLSSEPCRPFGSCINTVGSYTCQRNP  
LICARGYHASDDGTKCVDVNECETGVHRCGEGQVCHNLPGSYRCDCKAGFQRDAFGRGCI

DVNECWASPGRLCQHTCENTLGSYRSCASGFLLAADGKRCEVDNECEAQRCSEQECANIY  
GSYQCYCRQGYQLAEDGHTCTDIDECAQGAGILCTFRCLNVPGSYQCACPEQGYMTANG  
RSCKDVDECALGTHNCSEAETCHNIQGSFRCLRFECPPNYVQVSKTKCERTTCHDFLECQ  
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>sp|Q53RD9|FBLN7\_HUMAN Fibulin-7 OS=Homo sapiens GN=FBLN7 PE=2 SV=1  
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CLPNGTWTGEQPHCRGISECSSQPCQNGGTCVEGVNQYRCICPPGRTGNRCQHQQAATAAP  
EGSVAGDSAFSRAPRCAQVERAQHCSCEAGFHLGAAGDSVCQDVNECELYGQEGRPRLC  
MHACVNTPGSYRCTPCGGYRTLADGKSCEDVDECVGLQVPCQGTTCINTGGSFQCVSPE  
CPEGSGNVSYVKTSPFQCERNPCMDSRPCRHLPKTISFHYSLSPLNLKTPITLFRMATA  
SAPGRAGPNSLRFGIVGGNSRGHFVMQRSDRQTGDLILVQNLEGPQTLEVDVDMSEYLDL  
SFQANHVSQVTFIVSPYDF

>sp|P35555|FBN1\_HUMAN Fibrillin-1 OS=Homo sapiens GN=FBN1 PE=1 SV=3  
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SRYNAYCCPGWKTLPGGNQCIVIPICRHSCGDGFCSRPNMCTCPSGQIAPSCGSRSIQHCN  
IRCMNGGSCSDDHCLCQKGYIGTHCGQPVCESGCLNGGRCVAPNRCCTYGTGTPQCERD  
YRTGPCFTVISNMQCQQLSGIVCTKTLCCATVGRAWGHPCEMCPAQPHPCRRGFIPNIR  
TGACQDVDECQAIPGLCQGGNCINTVGSFECKCPAGHKLNEVSQKCEDIDECSTIPGICE  
GGECTNTVSSYFCKCPPGYTSPDGTGTRCIDVRPGYCYTALTNGRCSNQLPQSITKMQCCC  
DAGRCWSPGVTVAPEMCPIRATEDFNKLCSVPMVIPGRPEYPPPPPLGPIPPVLPVPPGFP  
PGPQIPVPRPPVEYLPSREPRVLPVNVTDYQQLVRYLCQNGRCIPTPGSCRCECNKGF  
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CNNGRICINTDGSFHCVCNAGFHVTRDGKNCEDMDECSIRNMCLNGMCINEDGSFKICKP  
GFQLASDGRYCKDINECETPGICMNGRCVNTDGSYRCECFPLAVGLDGRVCVDTHMRST  
CYGGYKRGQCIKPLFGAVTKSECCCASTEYAFGEPCQPCPAQNSAEYQALCSSGPGMTSA  
GSDINECALDPDICPNIGICENLRGTYKICNSGYEVDSTGKNCVDINECVLNSLLCDNGQ  
CRNTPGSFVCTCPKGFIIYKPDLTCTEDIDECSSPCINGVCKNSPGSFICESSSESTLDP  
TKTICIEITIKGTCWQTVIDGRCEININGATLKSQCCSSLGAAWSPCTLCQVDPICGKGY  
SRIKGTQCEDIDECVFPVGVCKNGLCVNTRGSFKCQCPSGMTLDATGRICLDIRLETCL  
RYEDEECTLPDIAGRHRMDACCCSVGAAGTEECCECPMRNTPEYEELCPRGPGFATKEIT  
NGKPPFKDINECKMIPSLCTHGKCRNTIGSFKCRCDSGFALDSEERNCTDIDECRISPD  
CGRGQCVNTPGDFECKDEGYESGFMKNCMDIDECQRDPLLCRGVCHNTEGSYRCEC  
PPGHQLSPNISACIDINECELSAHLCPNGRCVNLIGKYQCACNPGYHSTPDRLFCVDIDE  
CSIMNGGCETFTCNSEGSYECSCQPGFALMPDQRSCTDIDECEDNPNICDGGQCTNIPGE  
YRCLCYDGFMASEDMDKTCVDVNECDLNPNICLSGTCENTKGSFICHCDMGYSGKKGKTGC  
TDINECEIGAHCNGKHAVCTNTAGSFKCSGSPGWIGDIKCTDLDECSNGTHMCSQHADC  
KNTMGSYRCLCKEGYTGDFCTDLDECSNENLNLGNGQCLNAPGGYRCECDMGFVPSAD  
GKACEDIDECSLPNICVFGTCHNLPGLFRCECEIGYELDRSGGNCTDVNECLDPTTCISG  
NCVNTPGSYICDPPDFELNPTRVGCVDTRSGNCYLDIRPRGDNGDTACSNEIGVGVS  
SKASCCSLGKAWGTPCEMCPAVNTSEYKILCPGGEGFRPNPITVILEDIDECQELPGLCQGG  
KCINTFGSFQCRCPYGYLNEEDTRVCDVNECETPGICGPGTCYNTVGNYTCICPPDYMQ  
VNGGNNCMDMRRSLCYRNYADNQTCDELLFNMTKKMCCCSYNIGRAWNKPCEQCPIS



TDEFATLCGSQRPGFVIDIYTGLPVDIDECREIPGVCENGVCINMVGSFRCECPVGFFYN  
DKLLVCEDIDECQNGPVCQRNAECINTAGSYRCDCKPGYRFTSTGQCNDRNECQEIPNIC  
SHGQCIDTVGSFYCLCHTGFKTNDQTMCLDINECERDACGNGTCRNTIGSFNCRCNHGF  
ILSHNNDCIDVDECASGNGNLCRNGQCINTVGSFQCQCNEGYEVAPDGRTCDINECLLE  
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PEGFSLSSSGRRQCQLRMSYCYAKFEGGKCSSPKSRNHSKQECCCALKGEGWGPCELCP  
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GNECVDTECSVGNPCGNGTCKNVIGGFECTCEEGFEPGPMTCEDINECAQNPLLCFR  
CVNTYGSYECKCPVGYVLRDRRMCKDEDECEEKGHDCTEKQMECKNLIGTYMCICPGY  
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TEVLQNMCIQSSNRNPVTKSECCDGGRGWGPHEICPFQGTVAFKKLCPHGRGFMNG  
ADIDECKVIHDVCRNGECVNDRGSYHCICKTGYPDITGTSCVDLNECNQAPKPCNFICK  
NTEGSYQCSCPKGYILQEDGRSCKDLDECATKQHNCQFLCVNTIGGFTCKPPGFTQHHT  
SCIDNNECTSDINLCGSKGICQNTPGSFTCECQRGFSLDQTGSSCEDVDECEGNHRCQH  
CQNIIGGYRCSPPQGYLQHYQWNQCVDENECLSAHCIGGASCHNTLSYKCMCPAGFQYE  
QFSGGCQDINECGSAQAPCSYGCNTEGGYLCGCPPGYFRIGQGHCVSGMGMGRGNPEPP  
VSGEMDDNSLSPEACYECKINGYPKRGRKRRSTNETDASNIEDQSETEANVSLASWDVEK  
TAIFAFNISHVSNKVRILELLPALTTLTNHNRYLIESGNEDGFFKINQKEGISYLHFTKK  
KPVAGTYSLQISSTPLYKKKELNQLEDKYDKDYLSELGDNLMKMIQVLLH

>sp|A6NFH5|FBP12\_HUMAN Fatty acid-binding protein 12 OS=Homo sapiens GN=FABP12 PE=2 SV=2  
MIDQLQGTWKSISCENSEDYMKELGIGRASRLGRLAKPTVTISTDGDVITIKTKSIFKN  
NEISFKLGEEFEEITPGGHKTKSKVTLDKESLIQVQDWGKETTITRKLVDGKMVESTV  
NSVICTRTYEKVSSNSVSNS

>sp|Q5TON5|FBP1L\_HUMAN Formin-binding protein 1-like OS=Homo sapiens GN=FNBP1L PE=1 SV=3  
MSWGTELWDQFDSLKDHTQWIDFLERYAKFVKERIEIEQNYAKQLRNLVKKYCPKRSSK  
DEEPRFTSCVAFFNINELNDYAGQREVVAEEMAHRVYGELMRYAHLKTERKMHLQEGR  
KAQQYLDMCWKQMDNSKKKFERECREAEKAQQSYERLDNDTNATKADVEKAKQQLNLRTH  
MADENKNEYAAQLQNFGEQHKHFYVVIPQIYKQLQEMDERRTIKLSECYRGFADSERKV  
IPIISKCLEGMILAAKSVDERRDSQMVDVSFKSGFEPGDFPFEDYSQHIYRTISDGTIS  
ASKQESGKMDAKTTVGAKGKLWLFQKKPKPQSPPLTPTSLFTSSTPNGSQFLTFSIEPV  
HYCMNEIKTGKPRIPSFRSLKRGWSVKMGPALEDFSHLPPEQRRKKLQQRIDELNRELQK  
ESDQKDALNKMKDVEYKPNQMGDPGSLQPKLAETMNNIDRLRMEIHKNEAWLSEVEGKTG  
GRGDRRHSSDINHLVTQGRESPEGSYTDANQEVGRPPQGHGHNEFDDEFEDDDPLPAI  
GHCKAIYPFDGHNEGTLAMKEGEVLYIIIEDKGDGWTRARRQNGEEGYVPTSYIDVTLEK  
NSKGS

>sp|Q9UKT4|FBX5\_HUMAN F-box only protein 5 OS=Homo sapiens GN=FBXO5 PE=1 SV=1  
MSRRPCSCALRPPRSCSASPSAVTAAGRPRPSDSCKEESSTLSVKMKCDFNCHVHSGL  
KLVKPDDIGRLVSYTPAYLEGSCDKCIKDYERLSCIGSPIVSPRIVQLETESKRLHNKEN  
QHVVQTLNSTNEIEALETSLYEDSGYSSFSLSGLSEHEEGLLEENFGDSLQSCLLQI  
QSPDQYPNKNLLPVLHFEKVVCSTLKKNAKRNPKVDREMLKEIIARGNFRLQNIIGRKM  
LECVDILSELFRGLRHVLATILAQLSDMDLINVSKVSTTWKKILEDDKGAFQLYSKAIQ  
RVTENNNKFSPHASTREYVMFRTPLASVQKSAAQTSKKDAQTKLSNQGDQKGSTYSRHN  
EFSEVAKTLKKNESLKACIRCNSPAKYDCYLQRATCKREGCGFDYCTKLCNYHTTKDCS  
DGKLLKASCKIGPLPGTKSKKNLRL

>sp|Q9NRD0|FBX8\_HUMAN F-box only protein 8 OS=Homo sapiens GN=FBX08 PE=2 SV=1

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KSKEQEGFINLEMLPPELSFTILSYLNATDCLASCWQDLANDELLWQGLCKSTWGHCS  
IYNKNPPLGFSFRKLYMLDEGSLTFNANPDEGVNYFMSKGILDDSPKEIAKFIFCTRIL  
NWKKLRIYLDERRDVLDDLVTLHNFRNQFLPNALREFFRHHIHAPEERGEYLETLITKFSH  
RFCACNPDLMRELGLSPDAVYVLCYSLILLSIDLTSPHVKNKMSKREFIRNTRRAAQNIS  
EDFVGHLIYDNIYLIGHVAA

>sp|Q9UKT7|FBXL3\_HUMAN F-box/LRR-repeat protein 3 OS=Homo sapiens GN=FBXL3 PE=1 SV=1

MKRGGGRSDRNSSEEGTAEKSKKLRTTNEHSQTCDWGNLLQDIILQVFKYLPLLDRAHAS  
QVCRNWNQVFHMPDLWRCFEFELNQPATSYLKATHPELIKQIIKRHSNHLQYVSFKVDSS  
KESAEAAACDILSQLVNCCLKTLGLISTARPSFMDLPKSHFISALTTVFVNSKSLSSLKID  
DTPVDDPSLKVLVANNSDTLKLKMSSCPHVSPAGILCVADQCHGLRELALNYHLLSDEL  
LLALSSEKHVRLEHLRIDVVSENPGQTHFHTIQKSSWDAFIRHSPKVNLMYFFLYEEEF  
DPFFRYEIPATHLYFGRSVSKDVLGRVGMTCPRLVELVVCANGLRPLDEELIRIAERCKN  
LSAIGLGECEVSCSAFVEFVKMCGGRLSQLSIMEEVLIPDQKYSLEQIHWEVSKHLGRVW  
FPDMMPTW

>sp|Q8N531|FBXL6\_HUMAN F-box/LRR-repeat protein 6 OS=Homo sapiens GN=FBXL6 PE=2 SV=1

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RRASRRTPRQPPRGPSAAAKPKAGLRSEAAAAPAPAPAPTPTPEEGPDAGWGDRIPLEIL  
VQIFGLLVAADGMPFLGRAARVCRRWQEAASQPALWHTVTLSSPLVGRPAKGGVKAEEK  
LLASLEWLMPNRFSQLQRLTLIHWSQVHPVLKLVGECCPRLTFLKLSGCHGVTADALVM  
LAKACQLHSLDLQHSMVSTAVVSFLEEAGSRMRKLWLTYSSTTAILGALLGCCPQL  
QVLEVSTGINRNSIPLQLPVEALQKGCPLQVLRLLNLMWLKPPGRGVAPGPGFPSLEE  
LCLASSTCNFVSNEVLGRLLHGSPNLRLLDLRGARITPAGLQDLPCRELEQLHLGLYGT  
SDRLTLAKEGSPFLTQKWCHTLRELDLSGQGFSEKDLEQALAAFLSTPGGSHPALCSNL  
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>sp|Q8N3Y1|FBXW8\_HUMAN F-box/WD repeat-containing protein 8 OS=Homo sapiens GN=FBXW8 PE=1  
SV=2

MDDYSLDEFRRRWQEELAQAQAPKKRRRPEAAERRARRPEVSGRGEQASGDPALAQRL  
EGAGRPPAARATRAEQDVASRSRPLAREGAGGGEQLVDQLIRDLNEMNDVPFFDIQLP  
YELAINIFQYLDRKELGRCAQVSKTWKVIAEDEVLYWRLCQQEGHLPDSSISDYSCWKLI  
FQECRAKEHMLRTNWKNRKAVSELEHVPDVTLCVHSHDGVVIAGYTSGDVRVWDTRTW  
DYVAPFLESEDEDEPGMQPNVSFVRINSSLAVAAYEDGFLNIWDLRTGKYPVHRFEHDA  
RIQALALSQDDATVATASAFDVVMLSPNEEGYWQIAAEFEVPKLVQYLEIVPETRRYPVA  
VAAAGDLMYLLKAEDSARTLLYAHGPPVTCLDVSAQVAFGVQGLGWVYEGSKILVYSLE  
AGRRLKLKGNVLRDFTCVNLSDPNLMVSGNMDGRVRIHDLRSGNIALSLAHQLRVSA  
VQMDDWKIVSGGEEGLVSVWDYRMNQKLWEVYSGHPVQHISFSSSLITANVPYQTVMRN  
ADLDSFTTHRRHRLIRAYEFAVDQLAFQSPLPVCRSSCDAMATHYYDLALAFPNHV

>sp|P24071|FCAR\_HUMAN Immunoglobulin alpha Fc receptor OS=Homo sapiens GN=FCAR PE=1 SV=1

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MI IKNSTYREIGRRLKFWNETDPEFVIDHMDANKAGRYQCQYRIGHYRFYSDTLELVVT  
GLYGKPFLSADRGVLMPGENISLTCSSAHIPDRFSLAKEGELSLPQHQSGEHPANFSL  
GPVDLNVSGIYRCYGWYNRSPYLWSFPSNALELVVTDSIHQDYTTQNLIRMAVAGLVLVA  
LLAILVENWHSHTALNKEASADVAEPSWSQQMCQPGLTFARTPSVCK

>sp|P12319|FCERA\_HUMAN High affinity immunoglobulin epsilon receptor subunit alpha  
OS=Homo sapiens GN=FCERIA PE=1 SV=1

MAPAMESPTLLCVALLFFAPDGLAVPQKPKVSLNPPWNRIFKGENVTLTCNGNFFFEVS  
STKWFHNGSLSEETNSSLNIVNAKFEDSGEYKCQHQQVNESEPVYLEVFSDWLLQASAE  
VVMEGQPLFLRCHGWRNWDVYKVIYYKDGEALKYWYENHNISITNATVEDSGTYCTGKV  
WQLDYESEPLNITVIKAPREKYWLQFFIPLLVLFAVDGLFISTQQQVTFLLKIKRTR  
KGFRLNPHPKPNPKNN

>sp|Q96LA5|FCRL2\_HUMAN Fc receptor-like protein 2 OS=Homo sapiens GN=FCRL2 PE=1 SV=1

MLLWSLLVIFDAVTEQADSLTLVAPSSVFEGDSIVLKCQGEQNWKIQKMAYHKDNKELSV  
FKKFSDFLIQSAVLSDSGNYFCSTKGQLFLWDKTSNIVKIKVQELFQRPVLTASSFQPIE  
GGPVSLKCETRLSPQRLDVQLQFCFFRENQVLGSGWSSSPELQISAVWSEDTGSYWCKAE  
TVTHRIRKQSLQSQIHVQRIPISNVSLAIRAPGGQVTEGQKLILLCSVAGGTGNVTFSWY  
REATGTSMGKKTQRSLSAELEIPAVKESDAGKYCRADNGHVPIQSKVVNIPVRIPVSRP  
VLTLRSPGAQAAGDLELHCEALRGSPPILYQFYHEDVTLGNSSAPSGGASFNLSLTA  
EHSGNYSCEANGLGAQCSEAVPVSIISGPDGYRRDLMTAGVLWGLFGLGFTGVALLLYA  
LFHKISGESSATNEPRGASRPNPQEFTYSSPTDMEELQPVYVNVGSVDVDVVSQVWSM  
QQPESSANIRTLENKDSQVIYSSVKKS

>sp|Q96PJ5|FCRL4\_HUMAN Fc receptor-like protein 4 OS=Homo sapiens GN=FCRL4 PE=1 SV=1

MLLWASLLAFAPVCGQSAAAHKPVISVHPPWTTFFKGERVTLCNGFQFYATEKTTWYHR  
HYWGEKLTTPGNTLEVRESGLYRCQARGSPRSNPVRLLFSSDSLILQAPYSVFEGDTLV  
LRCHRRRKEKLTAVKYTWNGNILSISNKSVDLLIPQASSNNNGNYRCIGYGDENDVFRSN  
FKIIKIQELFPHPELKATDSQPTEGNSVNLSCETQLPPERSDTPLHFNFFRDGEVILSDW  
STYPELQLPTVWRENSGSYWGCAETVRGNIHKHSPSLQIHVQRIPVSGVLLETQPSGGQA  
VEGEMLVLCVSAEGTGDTTFSWHREDMQESLGRKTQRSRLAELELPAIRQSHAGGYCT  
ADNSYGPVQSMVLNVTVRETGPNRDGLVAAGATGGLLSALLLAVALLFHCWRRRKSQVGF  
LGDETRLPAPGPGESSHSICPAQVELQSLYVDVHPKKGDLVYSEIQTTLGEEEEANTS  
RTLLEDKDVSVVYSEVKTQHPDNSAGKISSKDEES

>sp|Q6DN72|FCRL6\_HUMAN Fc receptor-like protein 6 OS=Homo sapiens GN=FCRL6 PE=1 SV=2

MLLWTAVLLFVPCVGKTVWLYLQAWPNPVFEGDALTLRCQGWKNTPLSQVKFYRDGKFLH  
FSKENQTLMSGAAATVQSRGQYSCSGQVMYIPQTFTQTSETAMVQVQELFPPPVLSAIPSP  
EPREGSLVTLRCQTKLHPLRSALRLLFSFHKDGHTLQDRGPHPELCIPGAKEGDSGLYWC  
EVAPEGGQVQKQSPQLEVRVQAPVSRPVLTLLHGPADPAVGDMVQLLCEAQRGSPPILYS  
FYLDEKIVGNHSAPCGGTTSLFPVKSEQDAGNYSCEAENSVSRRERSEPKKLSLKGSQVL  
FTPASNWLVPWLPASLLGLMVAALLVYVRSWRKAGPLPSQIPPTAPGGEQCPLYANVH  
HKGKDEGVVYSVHRTSKRSEARSAEFTVGRKDSSIICAEVRCLQPSEVSSTEVMRSR  
TLQEPLSDCEEVLC

>sp|P37268|FDFT\_HUMAN Squalene synthase OS=Homo sapiens GN=FDFT1 PE=1 SV=1

MEFVKCLGHPEEFYNLVRFRIGGKRKVMKMDQDSLSSSLKTCYKYNQTSRSFAAVIQA  
LDGEMRNAVCIFYLVLRALDTLEDDMTISVEKKVPLLHNHFSFLYQPDWRFMESKEKDRQ  
VLEDFPTISLEFRNLAEKYQTVIADICRRMGIGMAEFLDKHVTSEQEWDKYCHYVAGLVG  
IGLSRLFSASEFEDPLVGEDTERANSMLFLQKTNIIRDYLEDQQGGREFWPQEVWSRYV  
KKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRLRNQSVFNCAIPQVMAIATL  
AACYNQVQVFKGAVKIRKGQAVTLMMDATNMPAVKAIYQYMEEIYHRIPSDPSSSKTR  
QIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTEDEVVQTGEH

>sp|Q9BRP7|FDXA1\_HUMAN Ferredoxin-fold anticodon-binding domain-containing protein 1  
OS=Homo sapiens GN=FDXACB1 PE=1 SV=3

MAPRRLLLVGEGNFSFAAALSETLDQSTQLTATCLQRPaelardPLawenLQCLRERGID  
VRFGVDCTQLADVFELHEREFDQIYFIFPHCGRKAGVAKNRELLAKFFQSCADVLAEEGE  
VHVALCRGQGGTPADKPKREWHNSWQVMAALGGLILSDVYPFSCKAVAGYKCTGYRSQ  
DKSFHVEGALNHIFTRSLPFEGSQPRIFRIKLGQWFSFPEPEALVGKLNRGFLEAPSCH  
PIKTINEKLIaelGKVFLKRLKCSYPLLPQEGTSVLPFWNCDFLSAAFWISLHEDNSNS  
ESLTGGTSQDVEDFLVSFSELSLLKNPGRDGKEEACEGTCGQAKICLRPSLLVHVQDVIE  
VPDFLSGSLHILSGPVFQKCHILPFTMPAFHETLFI LGVNQNLKDGCLQSLLDHLKGILD  
SLLTQTLPESSKLSLVKFLQSNKGDMIRVKTHNFS PDCTEDLIIGSVITSATSVIHK  
DQCFVFSMNLDLLAMLVWCISDWRMLWTFDNRFLKNFVPGKIEPFKSHSLYPPCYVHDV  
SFWIDQKKGDFEDEFHTVARAVSQDTIISIQLSRFQHPKTQQVSLCYRLTYQTCDKALT  
QQQVASMQSQRKEIQQHLYVIPR

>sp|Q8NA97|FEAS1\_HUMAN Putative uncharacterized protein FER1L6-AS1 OS=Homo sapiens  
GN=FER1L6-AS1 PE=2 SV=1

MDILPYLHMSHGKCPLLVRGKGEMEGEALLSCLAMNSLGEQEACLDLGSKTPSLEISSNN  
QERPTNREETGIICPERLFIYSSKDSSKRLPGGLCIKNKTTCPVPVQLHPSSFPKCQEIV  
SPQARVKLLNLIKMDTAL

>sp|Q14512|FGFP1\_HUMAN Fibroblast growth factor-binding protein 1 OS=Homo sapiens  
GN=FGFBP1 PE=1 SV=1

MKICSLTLLSFLLLAAQVLLVEGKKVKNGLHskVVSEQKDTLGNTQIKQKSRPGNKGKF  
VTKDQANCRAATEQEEGISLKVECTQLDHEFSCVFAGNPTSCLKLKDERVYWKQVARNL  
RSQKDICRYSKTAVKTRVCRKDFPESSKLVSSTLFGNTKPRKEKTEMSPREHIKGKETT  
PSSLAVTQTMATKAPECVEDPDMANQRKTALEFCGETWSSLCTFFLSIVQDTSC

>sp|P22455|FGFR4\_HUMAN Fibroblast growth factor receptor 4 OS=Homo sapiens GN=FGFR4 PE=1  
SV=2

MRLLLALLGVLLSVPGPPVLSLEASEEVELEPClAPSLEQQEQELTVALGQPVRLCCGRA  
ERGGHWYKEGSRLAPAGRVGRWRGLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDS  
LTSSNDDDEPKSHRDPNSRHSYPQAPYWTHPQRMEKKLHAVPAGNTVKFRCPAAGNTP  
TIRWLKDGQAFHGENRIGGIRLRHQHWSLVMSVVPsDRGTYTCLVENAVGSIRYNLLD  
VLERSPHRPILQAGLPANTTAVVGSdVELLCKVYSDAQPHIQWLKHIVINGSSFGADGFP  
YVQVLKTADINSSEVEVLYLRNVAEDAGEYTCLAGNSIGLSYQSAWLTVLPEEDPTWTA  
AAPEARYTDIILYASGSLALAVLLLLAGLYRGQALHGRHPRPPATVQKLSRFPLARQFSL  
ESGSSGKSSSSLVRGVRLSSSGPALLAGLVSLDLPLDPLWEFPRDRLVLGKPLGEGCFGQ  
VVRAEAFGMDPARPDQASTVAVKMLKDNASDKDLADLVSEMEVMKLI GRHKNI INLLGVC  
TQEGPLYVIVECAAKGNLREFLRARRPPGPDLSPDGPRSEGPLSFPVLVSCAYQVARGM  
QYLESRKCIHRDLAARNVLVTEDNVMKIADFG LARGVHHIDYYKKTsNGRLPVKWMapeA  
LFDRVYTHQSDVWSFGILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCPPELYG  
LMRECWHAAPSQRPTFKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSGGDASSTCSSDS  
VFSDPLPLGSSSFPGSGVQT

>sp|Q5HY92|FIGN\_HUMAN Fidgetin OS=Homo sapiens GN=FIGN PE=1 SV=2

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ALTASNLLKKYAEKYSGILEGPVDRPVLSNYS DTPSGLVNGRKNSEPWQPSLNSEAVYP  
MNCVPD VITASKAGVSSALPPADV SASIGSSPGVASNLTEPSYSSSTCGSHTVPSLHAGL

PSQEYAPGYNGSYLHSTYSSQPAPALSPHPSPLHSSGLLQPPPPPPPPALVPGYNGTS  
NLSSYSYPSASYPPQTAVGSGYSPGGAPPPPSAYLPSGIPAPTPLPPTTVPGYTYQGHGL  
TPIAPSALTNSSASSLKRKAFYMAQQGDMSSYGNYSYGGQRSTQSPMYRMPDNSISNTN  
RGNGFDRSAETSSALFKPTKQLMSSEQQRKFSSQSSRALTPPSYSTAKNSLGSRSSESFG  
KYTSPVMSEHGDEHRQLLSHPMQGPLRAATSSNHVDEQLKNTDTHLIDLVTNEIITQG  
PPVDWNDIAGLDLVKAVIKEEVLPVLRSDAFSGLTALPRSILLFGPRGTGKTLLGRCIA  
SQLGATFFKIASGLVAKWLGEAEKIIHASFLVARCRQPSVIFVSDIDMLSSQVNEEHS  
PVSRMRTEFLMQLDTVLTSIEDQIVVICATSKPEEIDESLRRYFMKRLLIPLPDSTARHQ  
IIVQLLSQHNYCLNDKEFALLVQRTEGFSGLDVAHLCQEAUVGPLHAMPATDLAIMPSSQ  
LRPVTYQDFENAFCKIQPSISQKELDMYVEWKNMFGCSQ

>sp|Q8N6M3|FITM2\_HUMAN Fat storage-inducing transmembrane protein 2 OS=Homo sapiens  
GN=FITM2 PE=2 SV=1

MEHLERCEWLLRGTLVRAAVRRYLPWALVASMLAGSLLKELSPLPESYLSNKRNVLNRYF  
VKVAWAWTFCLLPFIALTNYHLTGKAGLVLRRLSTLLVGTAIWYICTSIFSNIHYTGS  
CYQSPALEGVRKEHQSKQQCHQEGGFHWGFDISGHSFLLTFCALMIVEEMSVLHEVKTDR  
SHCLHTAITTLVVALGILTFIIVWLMFLCTAVYFHNLSQKVFGTLFGLLSWYGTYGFWYPK  
AFSPGLPPQSCSLNLKQDSYKK

>sp|Q75LS8|FKBP9\_HUMAN Putative FK506-binding protein 9-like protein OS=Homo sapiens  
GN=FKBP9P1 PE=5 SV=1

MDMGLREMCVGEKRTVIIIPHLGYGEAGVDGEVPGSAVLVFDIELLELVAGLPEGYMFIV  
NGEVSPNLFEEIDKDGNGEVLLLEFSEYIHAQVASGKGKLAPGFDAELIVKNMFTNQDRN  
GDGKVTAEFEKLDQEAQDEL

>sp|Q00688|FKBP3\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP3 OS=Homo sapiens GN=FKBP3  
PE=1 SV=1

MAAAVPQRAWTVELRSEQLPKKDIKFLQEHGSDSFLAEHKLLGNIKNVAKTANKDHLV  
TAYNHLFETKRFKGTESISKVSEQVKNVKNLNEKPKETKSEETLDEGPPKYTKSVLKKGD  
KTNFPKKGDVHWCWYTGTLQDGTVFDNIQTSAKKKKNAKPLSFKVGVGKIVIRGWDEALL  
TMSKGEKARLEIEPEWAYGKKGQPDAKIPPNAKLTFEVELVDID

>sp|Q96MZ4|F218A\_HUMAN Protein FAM218A OS=Homo sapiens GN=FAM218A PE=1 SV=1

MEGCAVRRGSCPLLPGPSAWRASPAWAGRAKLRSWCRASGLPNRPYTLTGGRHGSVSLL  
RHPGTTTFVQQRSLHQSWEKRIVSACPVSRSWCPERNFSGSIPAVTPPKLPGHKSEGP  
PGKVRKRTTIRSQPLFVTRTRGFGSAVGWLPGLSPVL

>sp|Q7Z4H9|F220A\_HUMAN Protein FAM220A OS=Homo sapiens GN=FAM220A PE=2 SV=1

MRDRRGPLGTCLAQVQQAGGSDSKLSCSLKKRMPEGWPADAPSWMNKPVVDGNSQSEA  
LSLEMRKDPGAGLWLHSGGPVLPYVRESVRRNPASAATPSTAVGLFPAPTECFARVSCS  
GVEALGRRDWLGGPRATDGHGQCCKGEPRVSRLPRHQKVPFMGSFQDDPPSAFPKGLG  
SELEACLHSILSATLHVYPEVLLSEETKRIFLDRLKPMFSKQTIEFKKMLKSTSDGLQI  
TLGLLALQPFELANTLCHS

>sp|Q8WU58|F222B\_HUMAN Protein FAM222B OS=Homo sapiens GN=FAM222B PE=2 SV=1

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ARLLPEAIMNPPVAPYATVAPSTLAHPQAQALARQQALQHAQTLAHAPPQTLQHPQGIPP  
PQALSHPQSLQPPQGLGHPQPMATQGLVHPQALAHQGLQHPHNPLLHGGRKMPDSDAPP  
NVTVSTSTIPLSMAATLQHSQPPDLSSIVHQINQFCQTRAGISTTSVCEGQIANPSPISR

SLLINASTRVSTHSVPTMPSCVVPMEHTHAATAALPAAGPVNLPTGISRVPTGYPSDL  
KPVTWNQHLAHLQQMCSEASGTPAPGLTGKHAAGRELAGPGFVGKAPAYPQELCLAQSF  
HLKPPELEKPTSPPPVNGMAAPLAYPNGHYFQPLWNNILPTPNSDSSGSQDLAMPFHGGQP  
TGAPLDCAAAPGAHYRAGTGGGPVASQNSLMQTVDYLSGDFQQACFREQLAMLKAHRA  
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>sp|Q8IWN6|F223A\_HUMAN Protein FAM223A OS=Homo sapiens GN=FAM223A PE=2 SV=1  
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TRKNHESNSSLHHVPNWIFHSTIIPPNKGSKRCLRKVDWLLPRAGGVGKRGVTADGDRV  
SF

>sp|Q6NXP2|F71F2\_HUMAN Protein FAM71F2 OS=Homo sapiens GN=FAM71F2 PE=2 SV=3  
MSKIRGLPPEVREPGPGVELGVENGLLQQLIHSPEFNLSNSVVFESNFIQTHVPEADFQ  
VTKPGNWRDVCEGSATVILGVTSSVPSLPLPNVLLMANVTWPQGPF TTWSTPGDAPVINL  
SRLPLKYVELRIYDRLQRILRVRTVTEKIYYLKLHEKHPEIVFQFWVRLVKILQKGLSI  
TTKDPRIKFTHCLVPKMPTNSTETTPENSLSSQPSEPLVLLAAEQTSQSFSQLSGKPQ  
LTADRNDTAIEIDNCSSYKIPSPVASPINLNIPMRAALSHSLWEQEDWNEHLLQVHIAS  
YLGEHFLGA

>sp|POC5J1|F86B2\_HUMAN Putative protein N-methyltransferase FAM86B2 OS=Homo sapiens  
GN=FAM86B2 PE=1 SV=1  
MAPEENAGTELLLQGFERRFLAVRTLRSFPWQSLEAKLRDSSDSELLRDILQKTVRHPVC  
VKHPPSVKYAWCFLSELIKKHEAVHTEPLDKLYEVLAEITLMAKESTQGHRSYLLSSGGSV  
TLSKSTAIISHGTTGLVTWDAALYLAEWAIENPAAFINRTVLELGSAGLTGLAICKMCR  
PRAYIFSDPHSRILEQLRGNVLLNGLSLEADITGNLDSPRVTVAQLDWDVAMVHQLSAFQ  
PDVIAADVLYCPEAIVSLVGLQRLAACREHKRAPEVYVAFTRVPETCQLFTTELGRD  
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>sp|A8MXJ8|F90A5\_HUMAN Putative protein FAM90A5P OS=Homo sapiens GN=FAM90A5P PE=5 SV=1  
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MKCWKAALVPATLGKKEGKENLKPWKPRVEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGGSTEPSDYLRVASGPMPVHTTSKRPRVDPVLADGSATEMSDRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAADMPQPAVRHQGREPLLVKPHTSRPEGGCREV  
PQAASKTHGLLQAARPQAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGAKRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELG PSTSPQMGRRTPAQVPSVD  
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>sp|Q5HY64|FA47C\_HUMAN Putative protein FAM47C OS=Homo sapiens GN=FAM47C PE=2 SV=1  
MGDQRPQDRPSSPGMDSTPWYCDKPPSKYFAKRKHRLRFPPVDTQNWVFTVTEGMDDFRY  
GCQSPEDTLVCCRDEFLLPKISLRGPQADPKSRKKKLLKKAALFSKLSPAQPARKAFVEE  
VEAQLMTKHPLAMYPNLGEDMPD LLLQVLKPLDPERKLE DAGSCEGQEKT TDEPTEPGK  
YPCGEFSRPPETRVSLPPEPPKTPVSSLRPEPPETGVSHLRPQPPKTQVSSLHLEPPE  
TGVSHLRPEPPKTQVSSLHLEPPETGVSHLYLEPPGTGVSHLCPEPPKTRVSHLHREPPE  
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TRVSPLRQLPPEAGVSHLCPEPPKTRVPPLRPETPKNGVSPLFPEPPKTRISNLRSEPPK  
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KDVSHLRPEPPDTGVSHLCPEPPKTRVSHLRPEPSETGVSHLRPEPPKILVSSLHQAPPE  
SSVSHLRPEPPETGVSHLRPEPPKTRMYSLRPEPPDTGVSHLCPEPPKTRVSSLPEPPE

TGVSHLCPEPPETRVSHLRPEPPETGVSHLRPEPPKTRMYSLRPEPPNTGVSHLCPEPPK  
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SRVSHLCPEPPETGVSHLRPEPPKPRVSSLRPEPLETRVSHLRPEPPETGVSHLHPELPK  
PRVSSLHLEPPKTRRVSSLRLEPPKTRGVSSLCPEPTKTGASHLKELFQEGTSSTMECVS  
DSLQRRHTSRKLRDFKWAGDLGVNEESSISLFDFTPECRATYQDQKNKKANECSSGLKYS  
MELDEMDEVKFFSQEKDLGKIQNAPNSHSAQHVKMGYGAWYLPKLGKKLRSDEPLIDP  
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>sp|Q9Y247|FA50B\_HUMAN Protein FAM50B OS=Homo sapiens GN=FAM50B PE=1 SV=1  
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KSSTVGLVTLNDMKARQEALVRERERQLAKRQHLEEQRLQERQREQERREKRKISCL  
SFALDDDDQADAAEARRAGNLGNPDVDTSFPLPDRDREEEENRLREELRQEWAEQREKV  
KDEEMEVTFSYWDGSGHRRTRVRVRKGNTVQQFLKKALQGLRKDFLELRSAGVEQLMFIKE  
DLILPHYHTFYDFIIARARGKSGPLFSFDVHDDVRLLSDATMEKDESHAGKVVLRSWYEK  
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>sp|Q9NYF3|FA53C\_HUMAN Protein FAM53C OS=Homo sapiens GN=FAM53C PE=1 SV=1  
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FQDSLNFSYHPSGLSLHLRPPSRGNSPKQPFQVLRPEPPDPEKLPVPAPPSPKRHCRS  
LSVPVDLSRWQPVWRPAPSKLWTPIKHRGSGGGGQVPHQSPPKRVSSLRFLQAPSASS  
QCAPAHRPYSPFFSLALAQDSSRPCAASPQSGSWESDAESLSPCPPQRRFSLSPSLGPQ  
ASRFLPSARSSPASSPELPWRPRGLRNLPRSRSPQCDLDARKTGKRRHEEDPRRLRPSL  
DFDKMNQKPYSGGLCLQETAREGSSISPPWFMACSPPLSASCSTGGSSQVLESEEEEE  
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>sp|Q9NP50|FA60A\_HUMAN Protein FAM60A OS=Homo sapiens GN=FAM60A PE=1 SV=1  
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KRWKLPAGSKKNWNHVVDARAGPSLKTTLKPKKVKTLSGNRIKSNQISKLQKEFKRHNS  
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>sp|Q0P6D2|FA69C\_HUMAN Protein FAM69C OS=Homo sapiens GN=FAM69C PE=2 SV=3  
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RILAALCQDYQGGLTAGDLCEDLCVAGELLFQRCLHYNRGKVLQADWRGRPVLKSKKE  
AFSSFPPLSLLEEEAGEGGQDMPAEALLMVAGEVKSALGLELSNSSLGPWWPGRGPRW  
RGQLASLWALLQEEYVYFSLQDLSPHVLVPLGSCGHFYAVEFLAAGSPHHRALFPLDR  
APGAPGGGQAKAISDIALSFLDMVNHFDSDFSHRLHLCIDIKPENFAIRSDFTVVAIDVDM  
AFFEPMREILEQNCTGDEDCNFFDCFSRCDLRVNKCGAQRVNNNLQVICDKIFRHWFS  
PLKSSAVSFQLQLQEQEAVQECADPGVPSGNTRRAASSVFWKLRLQATLRELQAEK

>sp|Q8TC56|FA71B\_HUMAN Protein FAM71B OS=Homo sapiens GN=FAM71B PE=1 SV=2  
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IDVHNRVRMTVGIVCTSPILPLPDMVLAQPTKICEQHVRWGRFAKGRGRPVTLELT  
RLPLKFVKISIHDEKQQLRLKLATGRTFYQLCPSSDTREDLFCYWEKLVYLLRPPVE  
SYCSTPTLLSGDAPPEDNKSVAELHREGDQSETGLYKPCDVSAATSSAYAGGEGIQHA  
SHGTASASPSTSTPGAAEGGAARTAGGMAVAGTATGPRTDVAIAGAAMSPATGAMSIAT  
TKSAGPGQVTTALAGAAIKNPGENESSKSMAGAAANISSEGLALVGAASTSLEGTSTM  
AGAASLSQDSSLSAAFAGSITTSKCAARTEGPAVGPLISTLQSEGYMSERDGSQKVSQP

SAEVWENKERREKKDRHPSRKSSSHHRKAGESHRRRAGDKNQKASSHRASGHKNTRDDK  
KEKGYSNVRGKRHGSSRKSSSTHSSTKKESRTTQELGKNQSASSTGALQKKASKISSFLRS  
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>sp|Q5HYJ3|FA76B\_HUMAN Protein FAM76B OS=Homo sapiens GN=FAM76B PE=1 SV=3  
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AQNVKQFGTPKPCQYCNIIAAFIGTKCQRCNTSEKKYGGPQTCEQCKQCAFDKKEEGRR  
KVDGKLLCWLCTLSYKRVLQKTKEQRKSLGSSHSNSSSSSLTEKDQHHPKHHHHHHHHHH  
RHSSSSHHKISNLSPEEEQLWKQSHKSSATIQNETPKKKPKLESKPSNGDSSSINQSADS  
GGTDNFVLISQLKEEVMSLRLLQQRDQTILEKDKKLTCLKADFQYQESNLRKMNMSMEK  
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>sp|Q8TBF8|FA81A\_HUMAN Protein FAM81A OS=Homo sapiens GN=FAM81A PE=2 SV=3  
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SLQKMKNKGGDRLARLFLEEHIRNITAIVKQLNRDIEVLQEIRARDNISYGTNSALKT  
LEMRQLSGLGDLRGRVARGDASIALRLSAEHKTTYEGLQHLNKEQQAALILETKIKDAEG  
QISQLLNVRVDSLISEQSTKLKMSHRDSNHQLQLLDTKFKGTVEELSNQILSARSWLQQEQ  
ERIEKELLQKIDQLSLIVKENSASERDMEKKLSQMSARLDKIEEGQKKTDFDGRTRQEE  
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>sp|Q86UY5|FA83A\_HUMAN Protein FAM83A OS=Homo sapiens GN=FAM83A PE=1 SV=1  
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DFLSSVEAQYIQAQAREPPCPPDTLGGAEGPKGLDSSSLQSGTYFPVASEGSEPALHLS  
WASAEKPYLKEKSSATVYFQTVKHNNIRDVLRRCITRTSQVLVILMDVFTDVEIFCDILE  
AANKRGVFCVLLDQGGVKLFQEMCDKVQISDSHLKNISIRSVEGEIYCAKSGRKFAQQI  
REKFIISDWRFLSGSYSFTWLCGHVHRNLSKFTGQAVELFDEEFRHLYASSKPVMLK  
SPRLVAPVPPGAAPANGRLSSSGSASDRTSSNPFSGRSAGSHPGTRSVSASSGPCSPAA  
PHPPPPPRFQPHQGPWGAPSPQAHLSPRPHDGPPAAVYSNLGAYRPTRLQLEQLGLVPRL  
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>sp|Q9BQN1|FA83C\_HUMAN Protein FAM83C OS=Homo sapiens GN=FAM83C PE=1 SV=3  
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SDIDPPDLDLGWPEVPQATGFSPTQAVVHFQRDKAKNIKDLLRFLFSQAHTVVAVMDIF  
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SKAGRRFTGQALEKFVLIDCEQVAVGSYSFTWLCSQAHTSMVLQLRGRIVEDFDREFRCL  
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SYLALPGGGDCSDTGVSSSLGPAREASGQPSLHRQLSDPNHGSPPGLYRANLGKLGAY  
PWSQSSPALNHNSTSPTLAVGSPLPRSRPLLQFHRGAPALSRFPENGLPGSQEPSPLR  
GRWVPGTTLETVEEKEKKASPSQSRGQLDLLVPFRAREVGDPDSGVTNPNSGLRPGEQ  
PEDRRLSPSQADSLDLLSRALGTGAPELGSRLPGDRAEDRRSLNQSRRGQSDLLMQY  
PKAQSRVPLETNSSARPARRAPDERRQTLGHSQDLITKFGPFRGEGPGPNGLPISSPA  
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>sp|Q96KN4|FA84A\_HUMAN Protein FAM84A OS=Homo sapiens GN=FAM84A PE=2 SV=2  
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CTPCPESPSRHHHLLHQLVLNETQFSAFRGQECIFSKVSGGPQGADLSVYAVTALPALC  
EPGDLELLWLQPAPEPPAPAPHWAVYVGGGQIIHLHQGEIRQDSLYEAGAANVGRVVNS  
WYRYRPLVAELVVQNACGHLGLKSEEICWTNSESFAAWCRFGKREFKAGGEVPAGTQPPQ  
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>sp|Q17RN3|FA98C\_HUMAN Protein FAM98C OS=Homo sapiens GN=FAM98C PE=2 SV=1

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EAGAEVLSAGDGPAGEEDFLRQLGSLLRELHCPDRALCGDGAALREPGAGLRLLRFLC  
SELQATRLLCLRSLLDPSRPPLGEGVVEGAGMVQELDLTLQALGLPRPAGTPASQLLQ  
ELHAKISELQPSLPPGSLQPLLSCLDAPRWEALESLSQSLRDQYRCRRCLLLKRLDITT  
SAFHWSDRAEAQGEAMRAVLPIREVLTPESDISIAHVLAARADLSCLVPATSVAVRRGT  
CCAINKVLMGNVPDRGGRPNELEPPMPTWRSRREDGGPQCWGRKKKKKK

>sp|O15540|FABP7\_HUMAN Fatty acid-binding protein, brain OS=Homo sapiens GN=FABP7 PE=1  
SV=3

MVEAFCATWKLNSQNFDEYMKALGVGFATRQVGNVTKPTVIISQEGDKVVIRTLSTFKN  
TEISFQLGEEFDETTADDRNCKSVVSLDGDKLVHIQKWDGKETNFVREIKDGKMVMTLTF  
GDVVAVRHYEKA

>sp|Q9NYQ8|FAT2\_HUMAN Protocadherin Fat 2 OS=Homo sapiens GN=FAT2 PE=1 SV=2

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ATEKTLELEALTRVVVHILDQNDLKPLFSPPSYRVTISEDMPLKSPICKVTATDADLGQN  
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ALVVHVEPALRKPPAIASVVVTPPDSNDGTTYATVLVDANSSGAEVESVEVVGGDPGKHF  
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DVMVVVDI IDENDNAPMFLKSTFVGQISEAAPLYSMIMDKNNNPFVIHASDSDKEANSL L  
VYKILEPEALKFFKIDPSMGLTIVSEM DYESMP SFQFCVYVHDQGS PVL FAPRPAQV I I  
HVRDVNDSPPRFSEQIYEVAIVGPIHPGMELLMVRASDEDSEVNYSIKTGNADEAVTIHP  
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EVRDNRT PQRVAQGLVRVSI EDVNDNPPKFKHLPYYTIIQDGT EPGDVL FQVSATDEDLG  
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DPHTGELTTLTALDRERKDVFNLVAKATDGGGRSCQADITLHVEDVNDNAPRFFP SHCAV  
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DNPPRRFFQLNYSTTVQENSPIGSKVLQLILSDPDSPENGPPYSFRITKGNGSAFRVTPD  
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MEDPDLLARSVGVD TQAMPAIELNPLSASSCNNLNQPEPSKASVPNELVTFGPNSKQRPV  
VCSVPRLPPAAVPSHSDNEPVIKRTWSSEEMVYPGGAMVWPPTYSRNERWEYPHSEVTQ  
GPLPPSAHRHSTPVVMPEPNGLYGGFPFPLE MENKRAPLP PRYSNQNL EDLMP SRPPSPR

ERLVAPCLNEYTAISYYHSQFRQGGGGPCLADGGYKGVGMRLSRAGPSYAVCEVEGAPLA  
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>sp|P23142|FBLN1\_HUMAN Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

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AQQQSCEYSMLMGYQCGQVFQACCVKSQETGDLDVGGLQETDKIIIEVEEQEDPYLNDRC  
RGGGPCKQQCRDTGDEVVCSCFVGYYQLLSDGVSCEDVNECITGSHSCRLGESCINTVGSF  
RCQRDSSCGTGYELTEDNSCKDIDECESGIHNCLPDFICQNTLGSFRCRPKLQCKSGFIQ  
DALGNCIDINECLISAPCPIGHTCINTEGSYTCQKNVPNCGRGYHLNEEGTRCVDVDEC  
APPAEPCGKGHRCVNSPGSFRCECKTGYIFDGI SRMCVDVNECQRYPGRLCGHKCENTLG  
SYLCSCSVGFRLSVDGRSCEDINECSSSPCSQECANVYGSYQCYCRRGYQLSDVDGVGTCE  
DIDECALPTGGHICSYRCINIPGSFQCSCSPSGYRLAPNGRNCQDIDECVTGIHNCSINE  
TCFNIQGGFRCLAFECPENYRRAATLQQEKTDTVRCIKSCRPNVTVFDPVHTISHTV  
ISLPTFREFTRPEEII FLRAITPPHPASQANII FDITEGNLRDSFDII KRYMDGMTVGVV  
RQVRPIVGPFAVLKLEMNYYVGGVVSHRNVNVHIFVSEYWF

>sp|Q5XX13|FBW10\_HUMAN F-box/WD repeat-containing protein 10 OS=Homo sapiens GN=FBXW10  
PE=2 SV=2

MENLESRLKNAPYFRCEKGTDSIPLCRKCETCVLAWKIFSTKEWFCRINDISQRRFLVGI  
LKQLNSLYLLHYFQNILQTTQGKDFIYNRSRINLSKKEGKVVKSSLNQMLDKTVEQKMKE  
ILYWFANSTQWTKANYTLLLLQMCNPKLLLTAANVIRVLFREENNISGLNQDITDVCFS  
PEKDHSSKSATSQVYWTAKTQHTSLPLSKAPENEHLLGAASNPEEPWRNSLRRCISEMNRL  
FSGKGDITKPGYDPCNLLVDLDDIRDLSGFSKYRDFIRYLP IHL SKYILRMLDRHTLNK  
CASVSQHWAAMAQQVKMDLSAHGFIQNQITFLQGSYTRGIDPNYANKVSI PVPKMVDDGK  
SMRVKHPKWKLRTKNEYNLWTAYQNEETQQVLIERNVFCGTYNVRILSDTWDQNRVIHY  
SGGDLIAVSSNRKIHLLDIIQVKAIPVEFRGHAGSVRALFLCEEENFLLSGSYDLSIRYW  
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RINDTYIVSSCERGLVKVWHIAMAQLVKTLSGHEGAVKCLFFDQWHLLSGSTDGLVMAWS  
MVGKYERCLMAFKHPKEVLDSLLFLRVISACADGKIRIYNFLNGNCMKVLKANGRGDPV  
LSFFIQGNRMVVNTESNLMFQFEHIKWQYAVEKTKQKKNKEKEEEEKEENSLMEILSKCN  
IQVHSPRESVSSKQTVIQELLPGKPPKSRVLLKPAKFSSAVLIEELQSQGSKSPRRDAD  
DVEKAQKQGQLETPGKLPSHPKKKSWKIPMSPDQFLLTVSALQHAHNSGEFAYPCRPQTE  
ITDVWGPSISYPRKVLNFKGKSIQRAVDRLRLSNPPIDVKRTSIPLEIQKLQPNLKISLH  
SPRVQSTIPQPMIIRSFRSGSLKGGDQVTSSIERAVCSTGPLTSMQVIKPNRMLAPQVGT  
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>sp|Q8NEZ5|FBX22\_HUMAN F-box only protein 22 OS=Homo sapiens GN=FBX022 PE=1 SV=1

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RTHRSVTWISAGLAEAGHLEGHCLVRVVAEELENVRLPHTVLYMADSETFISLEEGRGH  
KRARKRTSMETALALEKLFPKQCQVLGIVTPGIVVTPMGSGSNRPQEIEIGESGFALLFP  
QIEGIKIQPFHFIFKDPKNLTLEHQLTEVGLLDNPRLRVLVFGYNCKVGASNYLQQVV  
STFSDMNIILAGGQVDNLSLTSEKNPLDIDASGVVGLSFSGHRIQSATVLLNEDVSDEK  
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>sp|094868|FCSD2\_HUMAN F-BAR and double SH3 domains protein 2 OS=Homo sapiens GN=FCHSD2  
PE=1 SV=3

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ASQYLKRDWPGVKADDRNDYRSMYPVWKSFLQETMQVAQSRMNICENYKNFISEPARTVR  
SLKEQQLKRCVDQLTKIQTELQETVKDLAKGKKKYFETEQMAHAVREKADIEAKSKLSLF  
QSRISLQKASVKLKARRSECNSKATHARNDYLLTLAAANAHQDRYYQTDLVNIMKALDGN  
VYDHLKDYLIAFSRTELETQAVQNTFQFLENSSKVVRDYNLQLFLQENAVFHKPQPFQ  
FQPCSDTSRQLESETGTTEEHS LNKEARKWATRVAREHKNI VHQQRVLNDLECHGAAVS  
EQSRAELEQKIDEARENIRKAEI IKLKAEARLDLLKQIGVSVDTWLKSAMNQVMEELNE  
RWARPPAVTSNGTLHSLNADTEREEGEEFEDNMDVFDDSSSSPSGTLRNYPLTCKVVYSY  
KASQPDEL TIEEHEVLEVI EDGDMEDWVKARNKVGQVGYVPEKYLQFPTSNSLLSMLQSL  
AALDSRSH TSSNSTEALVSGSLNGDASVCFVKALYDYGQTDEL SFEGAIIRILNKE  
NQDDDGFWEGEFNGRIGVFPSVLVEELSASENGDTPWMREIQISPSPKPHASLPPLPLYD  
QPPSSPYSPDKRSSLYFPRSPSANESLHAESPGFSQASRHTPETSYGKLRPVRAAPP  
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>sp|Q8NFU4|FDSCP\_HUMAN Follicular dendritic cell secreted peptide OS=Homo sapiens  
GN=FDCSP PE=1 SV=1

MKKVLLLTITAILAVAVGFPVSQDQEREKRSISDSDELASGFFVFPYPYFPRPLPIPFPR  
FPWFRRNFPIPIPESAPTTPLPSEK

>sp|P39748|FEN1\_HUMAN Flap endonuclease 1 OS=Homo sapiens GN=FEN1 PE=1 SV=1

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TSHLMGMFYRTIRMMENGIKPVVYFDGKPPQLKSGELAKRSERRAEAEKQLQQAAGAE  
QEVEKFTKRLVKVTKQHNDCKHLLSLMGIPYLDAPSEAEASCAALVKAGKVYAAATEDM  
DCLTFGSPVLMRHLTASEAKKLP IQEFHLSRILQELGLNQE QFV DCLILGSDYCESIRG  
IGPKRAVDLIQKHKSIEEIVRRLDPNKYVPENWLHKEAHQLFLEPEVLDPESELKWSE  
PNEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLD DFFKVTGSLSSAKRKEPEP  
KGSTKKKAKTGAAGFKRGK

>sp|P02771|FETA\_HUMAN Alpha-fetoprotein OS=Homo sapiens GN=AFP PE=1 SV=1

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KEVSKMVKDALTAIEKPTGDEQSSGCLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEG  
RHNCFLAHKKPTASIPLFQVPEPVTSCAYEEDRET FMNKF IYEIARRHPFLYAPTILL  
WAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACAVMKNFGTRTFQAITV  
TKLSQKFTKVNFT EIQKLVLDAHVHEHCCRGDVL DCLQDGEKIMSYICSQQDTLSNKIT  
ECCKLTTLERGQCI IHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSR  
RHPQLAVSVILRVAKGYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQ  
KLGEYYLQNAFLVAYTKKAPQLTSSSELMAITRKMAATAATCCQLSEDKLLACGEGAADII  
IGHLCIRHEMTPVNPVGVCCTSSYANRRPCFSSLVDETYVPPAFSDDKFIHKDL CQA  
QGVALQTMKQEFLINLVKQKPQITEEQLEAVIADFSGLLEKCCQGGQE QEVCF AEEGQKLI  
SKTRAALGV

>sp|Q9UHY8|FEZ2\_HUMAN Fasciculation and elongation protein zeta-2 OS=Homo sapiens GN=FEZ2  
PE=1 SV=2

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CFRPSDPGAEPPTAVRPITERSLLQGDEIWNALTDNYGNVMPVDWKSSHTRTLHLLTLN  
LSEKGVSDSLLFDTSDDEELREQLDMHSII VSCVNDEPLFTADQVIEEIEEMMQESPDPPE

DDETPTQSDRLSMLSQEIQTLKRSSTGSYEERVKRLSVSELNEILEEIETAIKEYSEELV  
QQALALRDELEFEKEVKNSFISVLIEVQNKQKEHKETAKKKKKLKNSSQNGKNERSHMPG  
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>sp|A0PJY2|FEZF1\_HUMAN Fez family zinc finger protein 1 OS=Homo sapiens GN=FEZF1 PE=1  
SV=1

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IAFKTSDFSRSNAPKPVFTCEVCGKVFNAHYNLTRHMPVHTGARPFVCKVCGKGRQA  
STLCRHKI IHTQEKPHKCNQCGKAFNRSSSTLNTHTRIAGYKPFVCEFCGKGFGHQKGNK  
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>sp|Q6ZV73|FGD6\_HUMAN FYVE, RhoGEF and PH domain-containing protein 6 OS=Homo sapiens  
GN=FGD6 PE=1 SV=2

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GHRENLCVKQLVLEPLEMNENLENSKIDETLTIKTRSKCDLYGEKAKNQGGVVLKASVLE  
EELKDALIHQMPPFISAQKHRPTDSEPMNGGCNSNGQFRIEFADLSPSPSSFEKVPDHHS  
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LQHLCAQNRGVSSSFDPKRASEKPVWKLPHILPFGNPEFLKSVTVSSNSEPSTALTK  
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SDEDDVSSESSKGEPPLEDKQDEDNMGMSKVHHIAKEIMSSEKVFVDVLKLLHIDFRDA  
VAHASRQLGKPVIEDRILNQILYYLPQLYELNRDLLKELEERMLHWTEQQRIADIFVKKG  
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RKPTQEAYQNELKIESVERSFILSASSATERDEWLEAISRAIEEYAKKRITFCPSRSLDE  
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PAALKEVSANTEDSSMSGYLYRSKGNKPKWHFVFIKNKVLYTYAASEDVAALESQPLL  
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>sp|Q92914|FGF11\_HUMAN Fibroblast growth factor 11 OS=Homo sapiens GN=FGF11 PE=2 SV=1

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DRGPEPQLKGIVTKLFCRQGFYLANPDGSIQGTPEDTSSFTHFNLIPVGLRVVTIQSAK  
LGHYMAMNAEGLLYSSPHFTAECRFKECVFENYYVLYASALYRQRSSGAWYLGDKKEGQ  
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>sp|Q92913|FGF13\_HUMAN Fibroblast growth factor 13 OS=Homo sapiens GN=FGF13 PE=1 SV=1  
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RPEPQLKGIVTKLYSRQGYHLQLQADGTIDGTDKEDSTYTLFNLIPVGLRVVAIQGVQTK  
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HNEST

>sp|076093|FGF18\_HUMAN Fibroblast growth factor 18 OS=Homo sapiens GN=FGF18 PE=1 SV=1  
MYSAPSACTCLCLHFLLCFQVQVLVAEENVDFRIHVENQTRARDDVSRKQLRLYLQLYSR  
TSGKHIQVLGRRISARGEDGDKYAQLLVETDTFGSQVRIKGKETEFYLCMNRKGKLVGKP  
DGTSKECVFIEKVLNNYTALMSAKYSGWYVGFTKKGRPRKGPKTRENQQDVHFMKRYPK  
GQPELQKPKFYTTVTKRSRRIRPHTPA

>sp|095750|FGF19\_HUMAN Fibroblast growth factor 19 OS=Homo sapiens GN=FGF19 PE=1 SV=1  
MRSGCVVHVWILAGLWLAVAGRPLAFSDAGPHVHYGWDPIRLRHLYTSGPHGLSSCFL  
RIRADGVVDCARGQSAHSLLEIKAVALTVAIKGVHSVRYLCMGADGKMQLLYSEEDC  
AFEEEIRPDGYNVYRSEKHRLPVSLSSAKRQLYKNRGFLPLSHFLPMLPMVPEEPEDLR  
GHLESDMFSSPLETDSMDPFGLVTGLEAVRSPSFEK

>sp|P31371|FGF9\_HUMAN Fibroblast growth factor 9 OS=Homo sapiens GN=FGF9 PE=1 SV=3  
MAPLGEVGNVFGVQDAVPFGNVPLPVDSPVLLSDHLGQSEAGGLPRGPAVTDLDHLKGI  
LRRRQLYCRTGFHLEIFPNGTIQGTRKDHSRFGILEFISIAVGLVSIRGVDSGLYLMNE  
KGELYGSEKLTQECVFREQFEENWYNTYSSNLYKHVDTGRRYYVALNKDGTREGTRTKR  
HQKFTHFLPRVPDPKVPELYKDILSQS

>sp|Q15007|FL2D\_HUMAN Pre-mRNA-splicing regulator WTAP OS=Homo sapiens GN=WTAP PE=1 SV=2  
MTNEEPLPKKVRLSETDFKVMARDELILRWKQYEAYVQALEGKYTDLNSNDVTGLRESEE  
KLKQQQESARRENILVMRLATKEQEMQECTTQIQYLKQVQPSVAQLRSTMVDPAINLF  
FLKMKGELEQTKDKLEQAQNELSAWKFTPDSQTGKKLMAKCRMLIQENQELGRQLSQGRI  
AQLEAELALQKKYSEELKSSQDELNDFIIQLDEEVEGMQSTILVLQQQLKETRQQLAQYQ  
QQQSQASAPSTSRTASEPVEQSEATSKDCSRLTNGPSNGSSSRQRTSGSGFHREGNTTE  
DDFPSSPGNGKSSNSSEERTGRGGSGYVNQLSAGYESVDSPTGSENSTHQSNDTDSSH  
DPQEEKAVSGKGNRTVGSRHVQNGLDSSVNVQGSVL

>sp|Q01543|FLI1\_HUMAN Friend leukemia integration 1 transcription factor OS=Homo sapiens  
GN=FLI1 PE=1 SV=1

MDGTIKEALS SVSDDQSLFDSAYGAAHLPKADMTASGSPDYGQPHKINPLPPQEWINQ  
PVRVNVKREYDHMNGSRESPVDCSVSKSKLVGGGESNPMNYNSYMDEKNGPPPPNMTN  
ERRVIVPADPTLWTQEHVRQWLEWAIKEYSLMEIDTSFFQNMKGELCKMNKEDFLRATT  
LYNTEVLLSHLSYLRESSLLAYNTTSHTDQSSRLSVKEDPSYDSVRRGAWGNMNSGLNK  
SPPLGGAQTISKNTQRPPDPYQILGPTSSRLANPGSGQIQLWQFLLELLSDSANASCI  
TWEGTNGEFKMTDPDEVARRWGERKSKPNMNYDKLSRALRYYYDKNIMTKVHGKRYAYKF  
DFHGIAQALQPHPTESMYKYPDISYMPSYHAHQKQVNFVPPHPSSMPVTSSSFFGAAS  
QYWTSPGTGGIYPNPVPRHPNTHVPSHLGSYY

>sp|Q7Z7B0|FLIP1\_HUMAN Filamin-A-interacting protein 1 OS=Homo sapiens GN=FILIP1 PE=1  
SV=1

MRSRNQGGESASDGHISCPKPSIIIGNAGEKSLSEDAKKKKKSNRKEDDVMASGTVKRHLK  
TSGECERKTKKSLSKEDLIQLLSIMEGELQAREDVIHMLKTEKTKPEVLEAHYGAEP  
EKVLRVLHRDAILAQEKSIGEDVYEKPISELDRLEEKQKETYRRMLEQLLLAEKCHRRTV

YELENEKHKHTDYMNKSDDFTNLLEQERERLKKLLEQEKAYQARKEKENAKRLNKLDEL  
VKLSFALMLVDERQMHIEQLGLSQKVQDLTQKLREEEKLKAITSKSKEDRQKLLKLE  
VDFEHKASRFSQEHEEMNAKLANQESHNRQLRLKLVLGTQRIEELEETNKNLQKAEELQ  
ELRDKIAKGECGSSLMAEVENLRKRVLEMEGKDDEITKTESQCRELRKKLQEEHHSKE  
LRLEVEKLQKRMSELEKLEAFSKSKSECTQLHLNLEKEKNLTKDLLNELEVVKSRVKEL  
ECSESRLKAELSLKDDLTKLSFTVMLVDERKNMMEKIKQEERKVDGLNKNFKVEQGKV  
MDVTEKLIIESKLLKLKSEMEEKVYNLTRERDELIGKLKSEEEKSSELSCSVDLLKKRL  
DGIEEVEREITRGRSRKGSELTCPEDNLIKELTLEIERLKKRLQQLEVVEGDLMKTEDEY  
DQLEQKFRTEQDKANFLSQLEEKHQAIAKNAIEKGEVVSQEAELRHRFRLEEAKSRDL  
KAEVQALKEKIHLMNKEDQLSQLQVDYSVLQQRFMEEENKNKNMGQEVNLTKLELSK  
RYSRALRPSVNGRRMVDVPVTSTGVQTDVSGEAAEEETPAVFIRKSFQENHIMSNLRQ  
VGLKKPVERSSVLDRYPPAANELTMRKSWIPWMRKRENGPSITQEKGPRTNSSPGHPGEV  
VLSPKQGQPLHIRVTPDHENSTATLEITSPTSEEFFSSTTVIPTLGNQKPRITIIIPSPNV  
MPQKQKSGDTTLGPERAMSPVTITTFREKTPESGRGAFADRPTSPIQIMTVSTSAAPAE  
IAVSPESQEMPMGRITLKVTPKEQTVPTPVRKYNSNANIITTEDNKIHIHLGSQFKRSPG  
TSGEGVSPVITVRPVNVTAKEVSTGTVLRSPRNLSSRPGASKVTSTITITPVTSSAR  
GTQSVSGGDSSQRPTRIPMSKGMKAGKPVVAAPGAGNLTKFEPRAETQSMKIELKKS  
AASSTSLGGGKG

>sp|Q14254|FLOT2\_HUMAN Flotillin-2 OS=Homo sapiens GN=FLOT2 PE=1 SV=2

MGNCHTVGPNEALVSSGGCCGSDYKQYVFGGWAWAWWCISDTQRISLEIMTLQPRCEDVE  
TAEGVALTVTGVAQVKIMTEKELLAVACEQFLGKNVQDIKNVVLQTLEGHLSILGTLTV  
EQIYQDRDQFAKLREVAAPDVGRMGIEILSFTIKDVYDKVDYSSLGKTQTAVVQRDAD  
IGVAEAERDAGIREAECKEMLDVKFMADTKIADSKRAFELQKSAFSEEVNIKTAEQLA  
YELQGAREQQKIRQEEIEIEVVQRKKQIAVEAQEILRTDKELIATVRRPAEAEAHRIQQI  
AEGEKVKQVLLAQAEAEKIRKIGEAEEAVIEAMGKAEAMRMLKAEAYQKYGDAAKMALV  
LEALPQIAAKIAAPLTKVDEIVVLSGDNSKVTSEVNRLLAELPASVHALTGVDLSKIPLI  
KKATGVQV

>sp|POCH98|F106C\_HUMAN Putative protein FAM106C OS=Homo sapiens GN=FAM106CP PE=5 SV=1

MLPSTMFLVHLPLSTNRLHCLRNTSLESCLCSFVHLNHPLHISDPVILISLHEAVRFSFA  
FSFPRGTLSIAYCLMSSVSTSSEAIMSTELLANYCHSSLHVCICISSFPNETGNHDSFPG  
AVVSISDQPTDQCKLAAKELPLRNLLECRFFDCMGEDLINLGVIGTER

>sp|Q9NRY5|F1142\_HUMAN Protein FAM114A2 OS=Homo sapiens GN=FAM114A2 PE=1 SV=4

MSDKDDIETPLLTEAAPILEDGNCEPAKNSESVDQGAKPESKSEPVVSTRKRPETKPSSD  
LETSKVLPIQDNVSKDVPQTRWGYWGSWGKSILSSASATVATVGQGISNVIEKAETSLGI  
PGPSEISTEVKYVAGETNAKENENSSPVAGAFGVFSTISTAVQSTGKSVISGGLDALEFI  
GKKTMDVIAEGDPGFKRTKGLMNRNATLSQVLREAKEKEEIRTSNEVTVETDKKTHYGLL  
FDEFQGLSHLEALEMLSQESEIKVKSILNSLSGEELETLKVELEQLKETFSLAEFCEEEE  
EEKKGDEDFTKDITELFSQLHVSSKPEKLARARNTAHEWIRKSLTKPLAENEEGEKQSEA  
ENTEQVNKNSIEDIHAFAIRSLAELTACSIELFHKTAALVLHGRKQEVTAIERSQTL SQM  
TIVLCKELSSLSKEFTTCLTTAGVKEMADVLNPLITAVFLEASNSASYIQDAFQLLLPVL  
EISLIENKIESHRHELQGGKPLLEH

>sp|Q9NWS6|F118A\_HUMAN Protein FAM118A OS=Homo sapiens GN=FAM118A PE=1 SV=2

MDSVEKTTNRSEQKSRKFLKSLIRKQPQELLLVIGTGVSAAVAPGIPALCSWRSCIEAVI  
EAAEQLEVLHPGDVAEFRKVKTKDRDLLVAHDLIRKMSPTGDAKPSFFQDCLMEVFDD

LEQHIRSPVVLQSILSLMDRGAMVLTNYDNLLEAFGRRQNKPMESLDLKDCTKVLEWAR  
GHMKYGLVLIHGLYTDPCGVLDPSGYKDVTDQAEVMEVLQNLRYRTKSFLFVGCGETLRD  
QIFQALFLYSVPNKVDLEHYMLVLKENEDHFFKHQADMLLHGKVVSYGDCFDHFPGYVQ  
DLATQICKQQSPDADRVDSTTLGNACQDCAKRKLENGIEVSKKRTQSDTDDAGGS

>sp|Q96E09|F122A\_HUMAN Protein FAM122A OS=Homo sapiens GN=FAM122A PE=1 SV=1  
MAQEKMELDLELPPGTGGSPAEGGGSGGGGLRRSNSAPLIHGLSDTSPVFQAEAPSARR  
NSTTFPSRHGLLLPAASPVRMHSSRLHQIKQEEGMDLINRETVHEREVQTAMQISHSWEEES  
FSLSDNDVEKSASPKRIDFIPVSPAPSPTRGIGKQCFSPSLQSFVSSNGLPPSPIPSPTT  
RFTTRRSQSPINCIRPSVLGPLKRKCEMETEQPKRFFQGITNMLSSDVAQLSDPGVCVS  
SDTLDGNSSSAGSSCNSPAKVSTTTDSPVSPAQAASPIPLDELSSK

>sp|Q86V42|F124A\_HUMAN Protein FAM124A OS=Homo sapiens GN=FAM124A PE=1 SV=1  
MDPKAGGGGEEDDCVDSGAETGGSDYSHLSSTSELVVEEAQDPFLVSIHIIADPGESQP  
LQEAIDNVLAWIHPDLPLFRVSERRASRRRRKPPKGAQPALAVVLFLQEEYGEEQILQLH  
RTLQQPPWRHHHTQVHGRFLPYLPCSQDFFTLAPGTPLWAIRPVHYGKEIVRFTVYCRY  
DNYADSLRFYQLILRRSPSQKKADFCIFPIFSNLDVDIQFSLKRLPCDQCPVPTDSSVLE  
FRVRDIGELVPLLNPFCSPISEGRWQTEDHDGNKILLQAQRVHKKFKPKGRVHHASEKKR  
HSTPLPSTAVPSHTPGSSQQSPLNSPHPGPIRTGLPPGHQQEFAGRANSTPNPPWSFQRS  
KSLFCLPTGGPSLASSAEPQWFSNTGAPGHRASEWRHGHLLSIDDLEGAQETDVTGLRL  
SSSDLSVVSAYSAPSRFCSTVETPLPSERCSSHWAHKSREGPLPTVSRVTTEASWASL  
PFFTKRSSSSSATAARAAPPAPSTSTLTDSSPQLPCDTPKVKTGDGMPPPPGSAGPGDND  
MEEFYI

>sp|Q8IXS8|F126B\_HUMAN Protein FAM126B OS=Homo sapiens GN=FAM126B PE=1 SV=1  
MLGTDRCVVEEWLSEFKALPDTQITSYAATLHRKKTLPALYKVIQDSNNELLEPVCHQL  
FELYRSSEVRLKRFTLQFLPELMWVYLRLTVSRDRQSGCIEALLGIYNLEIADKDGNN  
KVLSTIPSLSKPSIYHEPSTIGSMALTEGALCQHDLIRVVYSDLHPQRETFTAQNRFEV  
LSFLMLCYNSAIVMPASSYQSLCRMGSRCVSGFPRQHEKHWKELCGRIVLDPEFMVQL  
LTGVYYAMYNGQWDLGQEVLDIIYRAQLELFSQPLLVANAMKNSLPFDAPDSTQEGQKV  
LKVEVTPTVPRISRTAITTASIRHRWRREGAEGVNGGEESVNLNDADEGFSSGASLSSQ  
PIGTKPSSSSQSGSLRKVATGRSAKDKETASAIKSSESPRDSVVRKQYVQQPTDLSVDSV  
ELTPMKKHLPLAGQVVPKINSLSLIRTASASSSKSFDYVNGSQASTSIGVGTEGGTNLA  
ANNANRYSTVSLQEDRLGQAGEGKELLSPGAPLTKQRSRSPSFNMQLISQV

>sp|Q17RB0|F127C\_HUMAN Protein FAM127C OS=Homo sapiens GN=FAM127C PE=1 SV=1  
MEGRVQLMKALLARPLRPAARRWRNPPIFPETFDGDTDRLPEFIVQTSSYMFVDENTFSN  
DALKVTFILITRLTGPAQWVPIPIKESPLLSDYRGFLAEMKRVFGWEEDEDF

>sp|Q96C01|F136A\_HUMAN Protein FAM136A OS=Homo sapiens GN=FAM136A PE=1 SV=1  
MAELQQLRVQEAESMVKSLERENIRKMQGLMFRCSASCCEDSQASMKQVHQCIERCHVP  
LAQAQALVTSELEKFQDRLARCTMHCNDKAKDSIDAGSKELQVKQQLDSCVTKCVDDHMH  
LIPTMTKKMKEALLSIG

>sp|P05160|F13B\_HUMAN Coagulation factor XIII B chain OS=Homo sapiens GN=F13B PE=1 SV=3  
MRLKNLTFIIILISGELYAEKPCGFPHVENGRIAQYYTFSKSFYFPMIDKKLSFFCL  
AGYTTESGRQEEQTCTTEGWSPEPRCFKKCTKPDLSNGYISDVKLLYKIENMRYGCAS  
GYKTTGGKDEEVVQCLSDGWSSQPTCRKEHETCLAPELYNGNYSTTQKTFKVKDKVQYEC  
ATGYYTAGGKKEEVECLTYGWSLTPKCTKLKCSLRLIENGYFHPVKQTYEEDGVVQFF  
CHENYYLSGSDLIQCYNFGWYEPSPVCEGRRNRCPPPLPINSKIQTHTTYYRHGEIVHI



ECELNFEIHGSAEIRCEDGKWTEPPKCI EGQEKVACEEPPFI ENGAANLHSKIYYNGDKV  
TYACKSGYLLHGSNEITCNRGKWTLPPECVENNENCKHPPVVMNGAVADGILASYATGSS  
VEYRCNEYLLRSGKISRCEQGWSSPPVCLEPCTVNVDYMNRRNIEMKWKEYEGKVLHGD  
LIDFVCKQGYDLSPLTPLSELVQCNRGEVKYPLCTRKESKGMCTSPPLIKHGVIISSTV  
DTYENGSSVEYRCFDHFLLEGSSREAYCLDGMWTTPLCLEPCTLSFTEMEKNNLLKWF  
DNRPHILHGEYIEFICRGDTYPAELYITGSILRMQCDRGQLKYPRCIPRQSTLSYQEPLR  
T

>sp|Q8WW52|F151A\_HUMAN Protein FAM151A OS=Homo sapiens GN=FAM151A PE=2 SV=2

MVCREQLSKNQVKWFAGITCVSVVIAAIVLAITLRRPGCELEACSPDADMLDYLLSLG  
QISRRDALEVTWYHAANSKKAMTAALNSNITVLEADVNEGLGTANETGVPIMAHPPTIY  
SDNTLEQWLD AVLGSQKG IKLDFKNIKAVGPSLDLLRQLTEEGKVRRPIWINADILKGP  
NMLISTEVNATQFLALVQEKYPKATLSPGWTTFYMSTSPNRTYTQAMVEKMHEL VGGVPQ  
RVTFPVRSSMVRAAWPHFSWLLSQSERYSLTLWQAASDPMSVEDLLYVRDNTAVHQVYYD  
IFEPLLSQFKQLALNATRKPMYYTGGS LIPLLQLPGDDGLNVEWLVPDVQGS GKTATMTL  
PDTEGMILLNTGLEGTVAENPVPIVHTPSGNILTLESCLQQLATHPGHWGIHLQIAEPAA  
LRPSLALLARLSSLGLLHWPVWVGAKISHGSFSVPGHVAGRELLTAVAEVFPHVTVAPGW  
PEEVLGSGYREQLLTDMLELCQGLWQPVSFQMAMLLGHSTAGAIGRLASSPRATVTVE  
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>sp|Q96MY7|F161B\_HUMAN Protein FAM161B OS=Homo sapiens GN=FAM161B PE=1 SV=2

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SDSTGSIYQNLQELKQKGRWCLLES LFQSDPESDENLSEDEEDLESFFQDKDRGMVQVQC  
PQALRCGSTRCCSSLNLP SNIPRPQTQPPSGSRPPSQHRSVSSWASSITVPRPFRMTLR  
EARKKAEWLGSPASFEQERQRAQRQGE EEA ECHRQFRAQVPVAHVYLP LYQEIMERSEAR  
RQAGIQKRKELLSSLPKFSFLEKEEQLKEAARQDLAATAEAKISKQKATRRIPKSILE  
PALGDKLQEAELFRKIRIQMRALDMLQMASSPIASSSNRANPQPRTATRTQKEKLGFLHT  
NFRFQPRVNPVVPDYEGLYKAFQRRAAKRRETQEATR NKPFLLRTANLRHPQRPCDAATT  
GRRQDSPQPPATPLPRSRSLGLASLSANTLPVHITDATTRKRESAVRSAL EKKNADES I  
QWLEIHKKKSQAMSKSVTLRAKAMDPHKSLEEVFKAKLKENRNDRKRAKEYKKELEEMK  
QRIQTRPYLFEQVAKDLAKKEAEQWYLDTLKQAGLEEDFVRNKGQGTRAVQEKETKIKDF  
PRFQETTKLSIRDPEQGLEGSLEQPASPRKVL EELSHQSPENLVSLA

>sp|Q6J272|F166A\_HUMAN Protein FAM166A OS=Homo sapiens GN=FAM166A PE=2 SV=1

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KPKFIEDFSQSKPPRVPCQDLTEPYIPHYTSLKPSKNFEILGQLPPLEVDAQEPGVENI  
PRQILLPAGFTPDTPHPPCPPGRKGDSRDLGHPVYGEEAWKSATPVCEAPRQHQLYHCQR  
DEYPPPARRQQETLDVGSFQRLPQLDHPNLIQRKAISGYAGFIPRFTWVMGLNYRDGVMQ  
AMDEFDKSQFLFRNPHCDLGEKLPGTHWPSNHIYSSQGLIPFYMGFIPAMQDNIALTFGN  
STRRAYWKEWAKRNHTL

>sp|Q9BTA0|F167B\_HUMAN Protein FAM167B OS=Homo sapiens GN=FAM167B PE=2 SV=2

MSLGLLKQFQAVGEEDEE EGESLDSVKAL TAKLQLQTRRPSYLEWTAQVQSQA WRRRAQA  
KPGPGGPGDICGFDMSDALEWLRRRELREMQAQRQLAGQLRLRAQLHRLKMDQACHLH  
QELLDEAELELELEPGAGLALAPLLRHLGLTRMNISARRFTLC

>sp|Q8TBP5|F174A\_HUMAN Membrane protein FAM174A OS=Homo sapiens GN=FAM174A PE=2 SV=1

MKASQCCCLSHLLASVLLLLLPELSGPLAVLLQAAEAAPGLGPPDPRPRTLPLPPGP  
TPAQQPGRGLAEAAGPRGSEGGNGSNPVAGLETDDHGGKAGEGSGVGGGLAVSPNPGDKPM

TQRALTVLMVVGAVLVYFVVRTVRMRRNRKTRRYGVLDNIENMELTPLEQDDEDDDN  
TLFDANHPRR

>sp|Q8N128|F177A\_HUMAN Protein FAM177A1 OS=Homo sapiens GN=FAM177A1 PE=1 SV=1  
MDQEPVGGVERGEAVAASGAAAAAAGFESAGQMSNERGFENVELGVIGKKKKVPRRVIHF  
VSGETMEEYSTDEDEVDGLEKKDVLPTVDPTKLTWGPYLFYMLRAATSTLSVCDFLGEK  
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TVISSSFVNVNFEMEGDSEVIMESKQNPVSVPP

>sp|Q9H8M7|F188A\_HUMAN Ubiquitin carboxyl-terminal hydrolase FAM188A OS=Homo sapiens  
GN=FAM188A PE=1 SV=1  
MSELTKELMELVWGTKSSPGLSDTIFCRWTQGFVFSESEGSALQFEGGPCAVIAPVQAF  
LLKKLLFSSEKSSWRDCSEEEQKELLCHTLCDILESACCDHSGSYCLVSWLRGKTTEETA  
SISGSPAESSCQVEHSSALAVEELGFERFHAIQKRSFRSLPELKDAVLQYSMWGNKFG  
VLLFLYSVLLTKGIENIKNEIEDASEPLIDPVYGHGSQSLINLLTGHAVSNVWDGDREC  
SGMKLLGIEQAAGVFLTLMEALRYCKVGSYLKSPKFPWIIVGSETHLTVFFAKDMALVA  
PEAPSEQARRVFQTYDPEDNGFIPDSLLEDVMKALDLVSDPEYINLMKNKLDPEGLGIIL  
LGPFLQEFFPDQGSSGPESFTVYHYNGLKQSNYNEKVMYVEGTAVVMGFEDPMLQTD DTP  
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>sp|A6NMK8|F196B\_HUMAN Protein FAM196B OS=Homo sapiens GN=FAM196B PE=2 SV=1  
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DPAVMGKTQATRHHLPPTYSLSFPRSQAAGGFRNIAIQTSPLSRKHFPVFKRKRLTASKS  
LVEMPTASQSAIQVNGNLSEQDIVSSDLAYLRLAQHLEDGPRRVKVSFAFLPRVPKVQSN  
GPVSCLEAGTWSLEKATAAIQVPDDIYHSPSWEARESALSPDRSAEVSNSIHPLDDTR  
PGDGRRTPLDSEKSTSCLNATSVASHTPGTEELKPELLLPKDNSDDKDLGSLSSQSKET  
CVPSSPRTHSSPSQGSHPAHPGRASDCPSSSNHQNLSLKTNSASKSAPGCQEQTAN  
NPTESTLEFPNCPGNSHLPSLSRSETKLQSNREISDINQIHLARGELCDLQGRQLQSVE  
ESLHSNQEKIKVLLNVIQDLEKARALTEGRNFYRTGQDLNNCSTCQNTACIIYSVEYDFR  
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>sp|Q6UWH4|F198B\_HUMAN Protein FAM198B OS=Homo sapiens GN=FAM198B PE=2 SV=1  
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QHGQAAEKGPHRSRDTAEPSPFEIPLDGTLPPESSQNGSTLQPNVVYITLSKRKSKPAN  
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RLVRGPGVRAGGPDFLQPSRESNIRIYSESAPSWLSKDDIRRMRLADS AVAGLRPVSS  
RSGARLLVLEGGAPGAVLRCGPS CGLLKQPLDMSEVFAFHLDRI LGLNRTLPSVSRKAE  
FIQDGRPCPIILWDASLSSASNDTHSSVKLTWGTYYQLLKQKQWQNGRVKPKPESGCTEIH  
HHEWSKMALFDLFLQIYNRLDTNCCGFRPRKEDACVQNGLRPKDDQGSAA LAHIIQRKH  
DPRHLVFIDNKGFFDRSEDNLFKLEGIKEFPASAVSVLKSQHRLRQKLLQSLFLDKVYW  
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>sp|Q96LR4|F19A4\_HUMAN Protein FAM19A4 OS=Homo sapiens GN=FAM19A4 PE=1 SV=1  
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CCNKNRIEERSQTVKCSFPGQVAGTTTRAQPSCEASIVIQKWWCHMNPCEGEDCKVLP  
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>sp|Q5SY85|F201A\_HUMAN Protein FAM201A OS=Homo sapiens GN=FAM201A PE=4 SV=1  
MGLRAGSRCRADHLAQPPQGHAPVLRGCEWRARGLPGGCCLHTEGGCSLGAQAGWRT  
AGWEARGRRDLGLETTSAHSRSLHLSSWRRPDVGAAAGAE LLQRAPLQQPDPAQAAVEG

GLLARLPRPQDQCGQHSPRLVDIALPGGGWT

>sp|Q63HN1|F205B\_HUMAN Putative protein FAM205B OS=Homo sapiens GN=FAM205BP PE=5 SV=1

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TPNPMALALPSPALKALSGPHPSGGQDNDSGSDLQKKYSQFCGLPSLHSESLVATFMG  
SQGLPKIENVPKPLKDPFLFNDLSFPQLPKTSPQSAPPSSPLSPNWVSPSDHQRAQIN  
VPFLTLAEYEALEWHLLQRQLQLQWGWPAALQRSQHTQCLMQHEPCGKAQSPETTTASQT  
GKSISVLTRELLFFPEHARKLLEFHIQKQSIHRHWGLPKIQQSIQLLLTSTDQQTVSSS  
STALANVSIPQVVALEANGACDVLSPIAAPVSI PRPHLLTQVKAILQSHIDSKCGQIHQG  
KIPACVHRSWDCRISGVLAVAPFPCIPESQFLVLQTASDPDLHHKVMWPWMTALDQQQQA  
LPGTVTEHPKLLRVLVSVEAIEKLETTLRHKHLAFLSGLPALYYVALPRALAPAVTSQSVI  
TEMESPVEIPAELI

>sp|Q8IXS0|F217A\_HUMAN Protein FAM217A OS=Homo sapiens GN=FAM217A PE=2 SV=2

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VFTLNHPLTIASVDKQVGPYPGLPMLGLCWPYADGDFKNRNEIHVSSCSTIENNDGET  
LPAPNWNLKHGNSSEENFTDESLSENEKTNDTLLSYFKKVDLNLKPETIKNVEEPFTE  
EPNEVFPYPDFLPPPFALDLHNLALSKSDNWKVTVDPAETSVEHLITRLELERLQHMT  
IQKERPRLQTTFCTPAVTERPSSSKATPKVRQPKLCDSLSLQIPCVDKSQEKSNNSGSC  
KLEQNALKRWNWSNAGKYRWNSRPLSLKSSSTPKQLIETYDKNPKSSILSPCQELSFKPTI  
GHTNQSMVKMVSTRCLPWRSPMPVSPILTFPENQKEEIKAPKRNFGTKKKLYRQNIVLN  
RPFISIQLNCLSPSLIAKDKCCSPIEQK

>sp|Q4G0N7|F229B\_HUMAN Protein FAM229B OS=Homo sapiens GN=FAM229B PE=3 SV=1

MPFQFGTQPRRFPVEGGDSIELEPGLSSAACNGKEMSPTRQLRRCPGSHCLTITDVPV  
TVYATTRKPPAQSSKEMHPK

>sp|Q6IPT2|F71E1\_HUMAN Protein FAM71E1 OS=Homo sapiens GN=FAM71E1 PE=2 SV=2

MGPPLWPDLQEPPPGTSSQIRSPLLCDVIKPAHHDTVTRVVPFRFLPLLLRPLPSDG  
DIAMRRDRGPKPALGGAGEVEPGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQ  
FCPDIYPAPTSDLWPQVTRLGEVANEVTMGVAASSPALELPDLLLLAGPAKENGHLQLFG  
LFPLKFVQLFVHDKSRCQLEVKLNTSRTFYQLRAPLKTRDREFGQWVRLLYRLRFLSAS  
AVPFTQE

>sp|Q5RGS3|F74A1\_HUMAN Protein FAM74A1/A2 OS=Homo sapiens GN=FAM74A1 PE=1 SV=1

MWRELRCGPGGDVETAQRLSQRRRGKSSEAVPEKTWRAQRMSQRRRGESSEAVPEKTWKE  
LRNSETVPEKTWKQLRRCLQEDVERVQRLSLLLHLAVFLWIIIAINFNSGVKSQSSTYL  
PSGKILK

>sp|P12259|FA5\_HUMAN Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4

MFPGCPRLWVLVVLGTSWVGWGSQGTEAAQLRQFYVAAQGISWSYRPEPTNSSLNLSVTS  
FKKIVYREYEPYFKKEKPQSTISGLLGPTLYAEVGDIKVFHFNKADKPLSIHPQGIRYS  
KLSEGASYLDHTFPAEKMDDAVAPGREYTYEWSISEDGPTHDDPPCLTHIYYSHENLIE  
DFNSGLIGPLLICKGTLTEGGTQKTFDKQIVLLFAVFDESKSWSQSSSLMYTVNGYVNG  
TMPDITVCAHDHISWHLLGMSSGPELFSIHFNQVLEQNHKVSAILTVSATSTTANMTV  
GPEGKWIISSLTPKHLQAGMQAYIDIKNCPKKTNRNLKKITREQRHMKRWEYFIAEEVI  
WDYAPVIPANMDKKYRSQHLDNFSNQIGKHYKKVMYTQYEDESFTKHTVNPNMKEDGILG  
PIIRAQVRDTLKIVFKNMASRPYSIYPHGVTFSPYEDEVNSSFTSGRNNTMIRAVQPGET

YTYKWNILEFDEPTENDAQCLTRPYSDVDIMRDIASGLIGLLICKSRSLDRRGIQRAA  
DIEQQAVFAVFDENKSWYLEDNINKFCENPDEVKRDDPKFYESNIMSTINGYVPESITTL  
GFCFDDTVQWHFCSVGTQNEILTIHFTGHSFIYGKRHEDTLTLFPMRGESVTVTMDNVGT  
WMLTSMNSSPRSKKLRLKFRDVKCIPDDDEDSYEIFEPPESTVMATRKMHDRLEPEDEES  
DADYDYNRLAAALGIRSFNSSLNQEEEEFNLTALALENGTEFVSSNTDIIVGSNYSSP  
SNISKFTVNNLAEPQKAPSHQQATTAGSPLRHLIGKNSVLNSSTAETHSSPYSEDPIEDPL  
QPDVTGIRLLSLGAGEFKSQEHAKHKGPKVERDQAAKHRSWMKLLAHKVGRHLSQDTGS  
PSGMRPWEDLPSQDTGSPSRMRPWKDPPSDLLLLKQSNSSKILVGRWHLASEKGSYEIIQ  
DTDEDTAVERNWLISPQNASRAWGESTPLANKPGKQSGHPKFPRVRHKSQVRQDGGKSRL  
KKSQFLIKTRKKKKEKHTHAPLSRPTFHPLRSEAYNTFSERRLKHSLVLHKSNETSLPT  
DLNQTLPSMDFGWIASLPDHNQSSNDTGQASCPPGLYQTVPPEEHYQTFPIQDPDQMHS  
TSDPSHRSSPELSEMLEYDRSHKSFTDISQMSPSSEHEVWQTVISPDLSQVTLSPELS  
QTNLSPDLSHTTLPSELIQRNLSPALGQMPISPDLSHTTLPDLSHTTSLDLSQTNLSP  
ELSQTNLSPALGQMPLSPDLSHTTSLDFSQTNLSPELSHMTLSPELSQTNLSPALGQMP  
ISPDLSHTTSLDFSQTNLSPELSQTNLSPALGQMPLSPDPSHTTSLDLSQTNLSPELS  
QTNLSPDLSEMPFADLSQIPLTPDLQMTLSPDLGETDLSNFGQMSLSPDLSQVTLSP  
DISDTLLPDLSQISPPDLDQIFYPSESSQSLLLQEFNESFPYPDLGQMPSPSSPTLND  
TFLSKEFNPLVIVGLSKDGTDIYIEIIPKEEVQSSEDDYAEIDYVPYDDPYKTDVRTNINS  
SRDPDNIAAWYLRNNGNRRNYIAAEEISWDYSEFVQRETDIEDSDDIPEDTTYKKVVF  
RKYLDSTFTKRDPGRGEYEEHLGILGPIIRAEDDDVIQVRFNLASRPYSLHAHGLSYEKS  
SEGKTYEDDSPWFKEDNAVQPNSSYTYVWHATERSGPESPGSACRAWAYYSAVNPEKDI  
HSGLIGPLLICQKGILHKDSNMPMDMREFVLLFMTFDEKKSWYYEKKSRSSWRLTSSEMK  
KSHEFHAINGMIYSLPGLKMYEQEWRLHLLNIGGSQDIHVVFHGGTLLENGKQHQLG  
VWPLPGSFKTLEMKASKPGWLLNTEVGENQRAGMQTPFLIMDRDCRMPMGLSTGIISD  
SIKASEFLGYWEPRLARLNNGGSYNAWSVEKLAAEFASKPWIQVDMQKEVIITGIQTQG  
AKHYLKSCYTTEFYVAYSSNQINWQIFKGNSTRNVMYFNGNSDASTIKENQFDPPIVARY  
IRISPTRAYNRPTLRLELQGCEVNGCSTPLGMENGKIENKQITASSFKKSWWGDYWEFPR  
ARLNAQGRVNAWAKANNKQWLEIDLKIKKITAIIITQGCKSLSSSEMYVKSytiHYSEQ  
GVEWKPYRLKSSMVDKIFEGNTNTKGHVKNFFNPPIISRFRVIRVTPKTWNQSIARLELFG  
CDIY

>sp|Q8N9W8|FA71D\_HUMAN Protein FAM71D OS=Homo sapiens GN=FAM71D PE=2 SV=2  
MKKNTSKTTMRINKQDALCTPHSHDPRDLQNLMDGGEYAPFVSPPMLESNFIQVNRREGES  
IYLHNRANWVTVGICFSSSTHKIPNVMLLAHLTPGAQKDTETLFKSLLTSPPAEKLVLTR  
FLPLQFVTLVSHAENMSLKVKLVSGRAYYLQLCTSAYKQDTLFSQWVALISLLNQEKAK  
VSKVSEVSSLSGITNSTDITGSMVDVDTTFTAILTPYMYAGTGPEHVRDSIDFPEFTDI  
TDITDVTDLPENEVPEVPDVRIVTEVIEVREATEVTDSSDITNCSGVTVVFENNDLIRAK  
QEEKEKLKNILKPGCLQDTKSKSELKESKHVTISNITLTFEGKRYFQTTLTPVESEANT  
SKEMKDKTSEEKMPDFQSTALKAEESSRLRTESENTSVLSPHIKSPSNFLKLVPHLSAPFS  
RE

>sp|Q5TYM5|FA72A\_HUMAN Protein FAM72A OS=Homo sapiens GN=FAM72A PE=1 SV=1  
MSTNICSFKDRCVSILCCKFCKQVLSSRGMAVLLADTEIDLFSTDIPPTNAVDFTGRCY  
FTKICKCKLKDIACLKCGNIVGYHVIVPCSSCLLSCNNGHFWMFHSQAVYDINRLDSTGV  
NVLLWGNLPEIEESTDEDVLNISAEECIR

>sp|Q5VT40|FA78B\_HUMAN Protein FAM78B OS=Homo sapiens GN=FAM78B PE=2 SV=1

MGCIQSITCKARIRRENIVVYDVCATIDQCPTRIEETSPIVLRYKTPYFKASARVVMPP  
PRHETWVVGWIQACNQMEFFNTYSDLGMSSWELPDLEGRVKAISDSGVSYPWYGNTTE  
TVTLVGPTNKISRFSVMNDNFYPSVTWAVPVSDSNVPLLTRIKRDQSFTTWLVAMNTTT  
KEKII LQTIKWRMRVDIEVDPLQLLGQRARLVGRTQQEQPRILSRMEPIPPNALVKPNAN  
DAQVLMWRPKRGPPLVVIPPK

>sp|P08709|FA7\_HUMAN Coagulation factor VII OS=Homo sapiens GN=F7 PE=1 SV=1

MVSQALRL LLLLGLQGCLAAGGVAKASGGETRMPWKPGRVHVFTQEEAHGVLHRRRR  
ANAFLEELRPGSLERECKEEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGS  
CKDQLQSYICFCLPAFEGRCNETHKDDQLICVNENGGCEQYCSHTGTKRSCRCHEGYSL  
LADGVSTPTVEYPCGKIPILEKRNASKPQGRIVGGKVC PKGECPWQVLLL VNGAQLCGG  
TLINTIWVVSAAHCFDKIKNWRNLIAVLGEHDLSEHDGDEQSRRVAQVIIPSTYVPGTTN  
HDIALRLRHQPVLTDHVPLCLPERTFSERTLAFVRFSLVSGWGQLDRGATALELMVL  
NVPRMTQDCLQQSRKVGDSNPITEYMFCAGYSDGSKDSCKGDSGGPHATHYRGTWYLTG  
IVSWGQGCATVGHFVYTRVSQYIEWLQKLMRSEPRPGVLLRAPFP

>sp|Q5TOW9|FA83B\_HUMAN Protein FAM83B OS=Homo sapiens GN=FAM83B PE=1 SV=1

METSSMLSSLNDECKSDNYIEPHYKEWYRVAIDILIEHGLEAYQEFLVQERVSDFLAEEE  
INYILKNVQKVAQSTAHGTDSDCDTLSSGYTPVESDVEAPNLDLGPVYVMPGLLGTH  
IDLLFHPPRAHLLTIKETIRKMIKEARKVIALVMDIFTDVIDFKEIVEASTRGVSVYILL  
DESNFNHFLNMTEKQGC SVQRLRNIRVRTVKGDYLSKTGAKFHGKMEQKFLLVDCQKVM  
YGSYSYMW SFKAHLSMVQIIITGQLVESFDEEFRTLYARSCVPSSFAQEESARVKHGKAL  
WENGTYQHSVSSLASVSSQRNLFRQDKIHKLDSSYFKNRGIYTLNEHDKYNIRSHGYKP  
HFVPNFNGPN AIRQFPNQINENWKRHSYAGEQPETVPYLLLNRLNRTNPPGNWKKPS  
DSLSVASSSREGYVSHHNTPAQSFANRLAQRKTTNLADRNSNRRSFNGTDNHIRFLQQR  
MPTLEHTTKSFLRNWRIESYLDNHSEATPDSNGSALGDRFEGYDNPENLKANALYTHSRL  
RSSLVFKPTLPEQKEVNSCTTGSSNSTIIGSQGSETPKEVPDTPTNVQHLTDKPLPESIP  
KLPLQSEAPKMHTLQVPENHSVALNQTTNGHTESNNYIYKTLGVNKQTENLKNQQTENLL  
KRRSFPLFDNSKANLDPGNSKHVYSTLTRNRVRQPEKPKEDLLKSSKSMHNVTHNLEED  
EEEVTKRNSPSGTTTKSVSIAALLDVNKEESNKELASKKEVKGSPSFLKKGSQKLSLLS  
LTPDKKENLSKNKAPAFYRLCSSSDTLVSEGEENQKPKKSDTKVDSSPRRKHSSSSNSQG  
SIHKSKEVDTVSPSQEINAPPDENKRTPSGPVESKFLERAGDASAPRFNTEQIQYRDSR  
EINAVVTPERRPTSSPRPTSSELLRSHSTDRRVYSRFEPFCKIESSIQPTS NMPNTSINR  
PEIKSATMGNSYGRSSPLLNYNTGVYRSYQPNENKFRGFMQKFGNFIHKNK

>sp|Q9H4H8|FA83D\_HUMAN Protein FAM83D OS=Homo sapiens GN=FAM83D PE=1 SV=3

MALLSEGLDEVPAACLSPCGPPNPTELFSESRR LALEELVAGGPEAFAAFLRRERLARFL  
NPDEVHAILRAAERPGEEGAAAAA AEDSFGSSHDCSSGYTFPEQSDLEPPLLELGWPAF  
YQGAYRGATRVETHFQPRGAGEGGPYGCKDALRQQLRSAREVIAVMDVFTDIDIFRDLQ  
EICRKQGVAVYIILLDQALLSQFLDMCMDLKVHPEQEKLMTVRTITGNIYYARSGTKIIGK  
VHEKFTLIDGIRVATGSYSFTWTDGKLNSSNLVILSGQVVEHFDLEFRILYAQSKPISPK  
LLSHFQSSNKF DHLTNRKPQSKELTLGNLLRMRLARLSSTPRKADLDPEMPAEGKAERKP  
HDCESSTVSEEDYFSSHRDELQSRKAIDAATQTEPGEEMPGLSVSEVGTQTSITTACAGT  
QTAVITRIASSQTTIWSRSTTTQTDMDENILFPRGTQSTEGSPVSKMSVSRSSSLKSSSS  
VSSQGSVASSTGSPASIRTTDFHNP GYPKYLGTPHLELYLSDSLRNLNKERQFHFAGIRS  
RLNHMLAML SRRTLFTENHLGLHSGNFSRVNLLAVRDVALYPSYQ

>sp|Q9NVL1|FA86C\_HUMAN Protein FAM86C1 OS=Homo sapiens GN=FAM86C1 PE=1 SV=3

MAPEENAGSELLQSFKRRFLAARALRSFRWQSLEAKLRDSSSELLRDILQKHEAVHTE  
PLDELYEVLVETLMAKESTQGHRSYLLTCCIAQKPSRWSGSCGGWLPAGSTSGLLNSTW  
PLPSATQRCASCSPPSYAGLGSDGKRKLIMTRNCFPTTESTWRWQS

>sp|Q96PS1|FACOS\_HUMAN FANCD2 opposite strand protein OS=Homo sapiens GN=FANCD2OS PE=2  
SV=1

MAGYQLWSPWTPLEDSFQWLRHTTPTSSKHPFKASPCFPHTPSDLEVQLCFQEVTLVLD  
SPFLESGVSPKLPCHTSELRTMNNKGLVRKPQPIRLSGVDSVFGRVITAQPPKWTGTFRV  
SDKSAFCKIISREHQWPIGLKEPQIQMTVTMCKQMLRSILLLYATYKKCTFALQHSK

>sp|Q8WVX9|FACR1\_HUMAN Fatty acyl-CoA reductase 1 OS=Homo sapiens GN=FAR1 PE=1 SV=1

MVSIPEYYEGKNVLLTGATGFLGKVLLEKLLRSCPKVNSVYVLVRQKAGQTPQERVEEVL  
SGKLFDRLRDENPDFREKIIAINSELTQPKLALSEEDKEVIDSTNIIFHCAATVRFNEN  
LRDAVQLNVIATRQLILLAQQMKNLEVFMHVSTAYAYCNRKHIDEVVYPPVPDPKKLIDS  
LEWMDGLVNDITPKLIGDRPNTYIYTKALAEYVVQQEGAKLNVAIVRPSIVGASWKEPF  
PGWIDNFGPSGLFIAAGKGILRTIRASNNALADLVVPDVVVNMSLAAAWYSGVNRPRNI  
MVYNCTTGSTNPFHWGEVEYHIVISTFKRNPLEQAFRRPNVNLTSNHLLYHYWIAVSHKAP  
AFLYDIYLRMTGRSPRMMKTIIRLHKAMVFLEYFTSNVWNTENVMLMNQLNPEDKKT  
FNIDVRQLHWAIEYENYCLGKKYVLNEEMSGLPAARKHLNKLNRNIRYGFNTILVILIWR  
IFIARSQMARNIWFVVSCLCYKFLSYFRASSTMRY

>sp|Q7L8L6|FAKD5\_HUMAN FAST kinase domain-containing protein 5, mitochondrial OS=Homo  
sapiens GN=FASTKD5 PE=1 SV=1

MAATLSKSLKLVRYRAFCSAFAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNIC  
STFSSRRILTTSSAHPGLEFSKTSSSKASTLQLGSPRATGVDEEDVEVDFSFENMRVFLQ  
LRPEYRVHSYNASETSQLLSVSEGELILHKVRVNQNNLQAQVIVDYLCKLSSLPAEQHPV  
LLGSTSFALLCQLSVKKIQLFDTQDLINVLKAFVILGIPSHSMLDVYETKCCHQVWEMN  
MDQLLLVADLWRYLGRKVPRLNIFSSYLNHLHWKDLSQLVHLIYVIGENRQVSQDLMQ  
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSSRSLVNIV  
KMFRTHTVDHINFMKQIGEIAQRIQPSLGVQGVMHILTLYCSALRFLNEGVMNAVAASLPP  
RVAHCRSKDVAKILWSFGTLNYPNAEEFYSSLISEIHRKMPEFNQYPEHLPTCLLGLA  
FLEYFPVELIDFALSPGFVRLAQERTKFDLLKELYTLTGTVGIECPDYRGNRLSTHLQQE  
GSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP  
LPFNREATPAENVAKLRLEHVGVS LTDDL MNKLLKGKARGHFQGKTESEPGQPMELNENK  
AAVPLGGFLCNVADKSGAMAGLCPAACMQTPRMKLAVQFTNRNQYCYGSRDLLGLHNM  
KRRQLARLGYRVVELSYWEWLPLLKRTRLEKLAFLHEKVFTSAL

>sp|Q969F0|FATE1\_HUMAN Fetal and adult testis-expressed transcript protein OS=Homo  
sapiens GN=FATE1 PE=1 SV=1

MAGGPPNTKAEMEMSLAEELNHGRQGENQHLVIAEMMELGSRSRGASQKKQKLEQKAAG  
SASAKRVWNMTATRPKMGSQLPKPRMLRESGHGDAHLQEYAGNFQGI RFHYDRNPGTDA  
VAQTSLEEFNVLEMEVMRRQLYAVNRRLRALEEQATWRHRETLIIAVLVASIANLWLW  
MNQ

>sp|Q8N539|FBCD1\_HUMAN Fibrinogen C domain-containing protein 1 OS=Homo sapiens GN=FIBCD1  
PE=1 SV=2

MVNDRWKTMGAAQLEDPRDKPQRPSCGYVLCTVLLALAVLLAVAVTGAVLFLNHAHAP  
GTAPPPVVSTGAASANSALVTVRADSSHLILIDPRCPDLTDSFARLESAQASVLQALT  
EHQAQPRLVGDQEQLDLTADQLPRLLARASELQTECMGLRKHGHTLGQGLSALQSEQG

RLIQLLSESQGHMAHLVNSVSDILDALQRDRGLGRPRNKADLQRAPARGTRPRGCATGSR  
PRDCLDVLLSGQQDDGVYSVFPTHYPAGFQVYCDMRTDGGGWTVFQRREDGSVNFRGWD  
AYRDGFGRLTGEHWLGLKRIHALTTQAAYELHVDLEDFENGTAARYGSFGVGLFSVDPE  
EDGYPLTVADYSGTAGDSLLKHSGMRFTTKDRSDHSENNCAAFYRGAWWYRNCHTSNLN  
GQYLRGAHASYADGVEWSSWTGWQYSLKFSEMKIRPVREDR

>sp|POC2W1|FBSP1\_HUMAN F-box/SPRY domain-containing protein 1 OS=Homo sapiens GN=FBX045  
PE=1 SV=1

MAAPAPGAGAASGGAGCSGGGAGAGAGSGSGAAGAGGRLPSRVLELVFSYLELSELRSCA  
LVCKHWYRCLHGDENSEVWRSLCARSLAEEALRTDILCNLPSYKAKIRAFQHAFSTNDCS  
RNVYIKKNGFTLHRNPIAQSTDGARTKIGFSEGRHAWEVWEGPLGTVAVIGIATKRAPM  
QCQGYVALLGSDDQSWGWNLDNNLLHNGEVNGSFPQCNNAPKYQIGERIRVILDMEDKT  
LAFERGYEFLGVAFRGLPKVCLYPASAVYGNTVTLVYLKPLDG

>sp|Q6X9E4|FBW12\_HUMAN F-box/WD repeat-containing protein 12 OS=Homo sapiens GN=FBXW12  
PE=2 SV=2

MEIRLPDLALKRIFSFLDLFGLLQVSQVKNKHNRIADSDYLWRSLSLQRWDCSNFTNQHL  
GTHTWKQFFLHQRRKELRLALAQPHNFIYKVTKNIAFETELAYLSGNRLTVDEQEKSIIIC  
SVSPKQELCAWDVQEGTMIWSSPVQEFHFSNLVTLPMHLAITMDRKKTIKVNQCQRDA  
LAVLMPQPCYCMEAYLTKDGPFLMVGDAAGDIYFTLPLGLRDVSKVTAFQYGVILLHCS  
PDKKWVFACGTYSRTLPQVFLTESLLRPSEGSVPLSTFLPHKLCASACWTPKVKNRITLM  
SQSSTGKKTEFITFDLTTKKTGGQTVIQAYEIASFQVAHLKCPIMWGASDGYMIVFTSG  
PYLLLSITGFLLRFEHDHQAANNFWDPCYVLTTSSENSHVYMWEEGGRHPYLRSCCH  
LENTWHDHTDSCISSVMCDNASIVLRVRKVSDDSSILVMYSLNT

>sp|Q9Y297|FBW1A\_HUMAN F-box/WD repeat-containing protein 1A OS=Homo sapiens GN=BTRC PE=1  
SV=1

MDPAEAVLQEKALKFMCMPRSLWLGCSSLADSMPSLRCLYNPGTGALTAFQNSSEREDC  
NNGEPPRKIIPEKNSLRQTYNSCARLCLNQETVCLASTAMKTENCVAKTKLANGTSSMIV  
PKQRKLSASYEKEKELCVKYFEQWSESDQVEFVEHLISQMCHYQHGHSYLPMLQRDF  
ITALPARGLDHIAENILSYLDAKSLCAAELVCKEWYRVTSAGMLWKKLIERMVRTDSLWR  
GLAERRGWGQYLFKNKPPDGNAPPNSFYRALYPKIIQDIETIESNWRCGRHSLQRIHCRS  
ETSKGVYCLQYDDQKIVSGLRDNTIKIWDKNTLECKRILTGHGTGSVLCLQYDERVITGS  
SDSTVRVWDVNTGEMNLTIHHCEAVLHLRFNNGMMVTCSKDRSIAVWDMASPTDITLRR  
VLVGHRAAVNVDFDDKYIVSASGDRTIKVWNTSTCEFVRTLNHGKRGIACLQYRDRLVV  
SGSSDNTIRLWDIECGACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLVAALDPR  
APAGTLCRLTLVEHSGRVFRLQFDEFQIVSSSHDDTILIWDFLNDPAAQAEPPRSPSRTY  
TYISR

>sp|Q86XK2|FBX11\_HUMAN F-box only protein 11 OS=Homo sapiens GN=FBX011 PE=1 SV=3

MNSVRAANRRRPRRVSRRPVQQQQQQPPQPPPPQPPQQQPPPPPPQPPPPQPPPP  
PPPPPLPQERNVGERDDVADMAEESGPGAQNSPYQLRRKTLTPKRTACPTKNSME  
GASTSTTENFGHRAKRARVSGKSQDLAAPAEQYLQEKLPDEVVLKIFSYLLEQDLCRAA  
CVCKRFSELANDPILWKRLYMEVFYTRPMMHPEPGKFYQINPEEYEHNPWKESFQQLY  
KGAHVKPGFAEHFYSNPARYKGRENMLYYDTIEDALGGVQEAHFDGLIFVHSGIYTDWEI  
YIESPITMIGAAPGVADKVIIENTRDSTFVFMESSEDAYVGYMTIRFNPDDKSAQHHNA  
HHCLEITVNCSPIDHCIIRSTCTVGSACVSGGACPTIKHCNISDCENVGLYITDHAQ  
GIYEDNEISNNALAGIWKVNHGNPIIRRNHIIHGRDVGVTDFDHGMGYFESCNIHRNRIA

GFEVKAYANPTVVRCEIHHGQTGGIYVHEKGRGQFIENKIYANFAGVWITSNSDPTIRG  
NSIFNGNQGGVYIFGDGRGLIEGNDIYGNALAGIQIRTNSCPVRHNKIHDGQHGGIYVH  
EKGQGVIEENEVSNTLAGVWVTTGSTPVLRRNRIHSGKQGVYFYDNGHGVLEDNDIYN  
HMYSGVQIRTGSNPKIRRNKIWGGQNGGILVYNSGLGCIEDNEIFDNAMAGVWIKTDSNP  
TLRRNKIHDGRDGGICIFNGGRGLLEENDIFRNAQAGVLISTNSHPILRKNRIFDGFAAG  
IEITNHATATLEGNQIFNNRFGLFLASGVNVTMKDNKIMNNQDAIEKAVSRGQCLYKIS  
SYTSYPMHDFYRCHTCNTTDRNAICVNCIKKCHQGHDFEIRHRRFFCDGAGTLSNPCT  
LAGEPTHDTDTLYDSAPPIESNTLQHN

>sp|O94952|FBX21\_HUMAN F-box only protein 21 OS=Homo sapiens GN=FBX021 PE=2 SV=2

MAAAVDSAMEVVPALAEAAPEVAGLSCLVNLPGEVLEYILCCGSLTAADIGRVSSCTCR  
RLRELCQSSGKVWKEQFRVRWPSLMKHYSPTDYVNWLEEKVRQKAGLEARKIVASFSCR  
FFSEHVPCNGFSDIENLEGPEIFFEDELVCILNMEGRKALTWKYYAKKILYYLRQQKILN  
NLKAFLQPPDDYESYLEGAVYIDQYCNPLSDISLKDIQAQIDSIVELVCKTLRGINSRHP  
SLAFKAGESSMIMEIELQSQVLDAMNYVLYDQLKFKGNRMDYYNALNLYMHQVLIIRRTGI  
PISMSLLYLTIAARQLGVPLEPVNFPSPHLLRWCQGAEGATLDIFDYIYIDAFGKGKQLTV  
KECEYLIGQHVTAAALYGVVNVKKVLQRMVGNLLSLGKREGIDQSYQLLRDSL DLYLAMYP  
DQVQLLLLQARLYFHLGIWPEKSFCLVLKVL DILQHIQTLDPGQHGA VG YLVQHTLEHIE  
RKKEEVGV EVKLRSD EKH RDVCYSIGLIMKHKRYGYN CVIYGW DPTCMMGHEWIRNMNVH  
SLPHGHHQPFYNVLVEDGSCRYAAQENLEYNVEPQEISHPDVG RYFSEFTGTHYIPNAEL  
EIRYPEDLEFVYETVQNIYSAKKENIDE

>sp|Q969P5|FBX32\_HUMAN F-box only protein 32 OS=Homo sapiens GN=FBX032 PE=1 SV=1

MPFLGQDWRSPGQNWVKTADGWKRFLDEKSGSFVSDLSSYCNKEVYNKENL FNSLNYDVA  
AKKRKKDMLNSKTKTQYFHQEKWIYVHKGSTKERHGYCTLGEAFNR LDFSTAILDSRRFN  
YVVRLELEIAKSQLTSLSGIAQKNFMNILEKVVLKVLEDQQNIRLIRELLQTLYTSLCTL  
VQRVGKSVLVGNINMWVYRMETILHWQQQLNNI QITRPAFKGLTFTDLPLCLQLNIMQRL  
SDGRDLVSLGQAAPDLHVLSEDRLLWKKLCQYHFSE RQIRKRLILSDKGQLDWKKMYFKL  
VRCYPRKEQYGD TLQLCKHCHILSWKGT DHPCTANNPESCSVSLSPQDFINLFKF

>sp|Q6PIJ6|FBX38\_HUMAN F-box only protein 38 OS=Homo sapiens GN=FBX038 PE=1 SV=3

MGPRKKS VKTCIMNNEIPEEMTADETKDYMNQLSHEVLCHIFRYLPLQDIMCECLSRKL  
KEAVTLYLRVVRVVDLCAGRWWEYMPSGFTDASFLTLLKKMPDVEQLYGLHPRYLERRRV  
RGHEAFSIPGVLEALQACPNLVGVETSHLELVESIWTYMPHVHILGKFRNRNGAFPIPPE  
NKLKIPIGAKIQTLHLVG VNVPEIPCIPMLRHLYMKWVRLTKPQPFKDFLCISLRTFVMR  
NCAGPTNSLKYPVLVTGLASARNLEHLEMVRVPFLGGLIQHVVEDSWRSGGFRLHTIVL  
GACKNALEV D LGYLIITAARRLHEVRIQPSLTKDGVFSALKMAELEFPQFETLHLGYVDE  
FLLQSRMANADLVKYGLADVVENPGIITDIGMKAVNEVFSCIYLA IYNCPHLHNPYNWI  
SDHSRWTRLVDINLVRCHALKLDSFGQFIELLP SLEFISLDQM FREPPKGCARVGLSAGT  
GIGVSSALVSNQNSNNDNNAQN NNANIHDNNHHHPDDSD EENDFRQDLQPGEQQFAADA  
LNEMEDIVQEDGEVVAESGNNTPAHSQAII PVDVDEEQAGPSGLQRVVKPTSITVHDSSES  
DDEEDSLELQEVWIPKNGTRRYSEREEKTGESVQSRELSVSGKGKTPLRKRYNSHQMGQS  
KQFPLEESSCEKGCQVTSEQIKADMKAARDIPEKKKNKDVYPSCSSTASTVGNSSSHNT  
ASQSPDFVRTVNSGSGSESPTEVDVSRQCACSPGGS E DSEAMEEGDAESSVCPRCCCHR  
PQESQRRTSRCSDEERPSTSRACVVNGPDGTRSAFSFRTL PQGGSSGPAHDERTNGSGSG  
ATGEDRRGSSQPESCDVQSNEDYPRRPLTRARSRLSHVLLVSESEVAKTKPRHAMKRKRT  
ADKSTSTSDPVIEDDHVQVLVLKSKNLVGV TMTNCGITDLVLKDCPKMMFIHATRCRVLK



HLKVENAPIVNRFDYAQCKKLNDQVLDQILRMPPERNRIIYLRPMQQVDTLTLEQKLFS  
GPYPYHICIIHEFSNPPNVRNKVIRSWMDTIANINQELIKYEFFPEATRSEEDLKYPK  
YPWGREIYTLEGVVDGAPYSMISDFPWLRLSLAAEPNSFARYDFEDEESTIYAPRRKGQ  
LSADICMETIGEEISEMRQMKKGVFQRVVAIFHYCDVNGEPVEDDYI

>sp|Q9UK99|FBX3\_HUMAN F-box only protein 3 OS=Homo sapiens GN=FBX03 PE=1 SV=3

MAAMETETAPLTLESPTDPLLLILSFLDYRDLINCCYVSRRLSQLSSHDPWRRHCKKY  
WLISEEEKTQKNQCWKSFLIDTYSVGRYIDHYAAIKKAWDDLKYLEPRCPRMVLSLKE  
GAREEDLDAVEAQIGCKLPDDYRCSYRIHNGQKL VVPGLLGSMALSNHYRSEDLLDVDTA  
AGGFQQRQGLKYCLPTFCIHTGLSQYIAVEAAEGRNKNEVFYQCPDQMARNPAAIDMFI  
IGATFTDWFTSYVKNVVGFPFIIRDQIFRYVHDPECVATTGDITVSVSTSFPELSSVH  
PPHYFFTYRIRIEMSKDALPEKACQLDSRYWRITNAKGDVEEVQGPVVGEPFIISPGRV  
YEYTSCTFTSTSGYMEGYTFHFLYFKDKIFNVAIPRFHMACPTFRVSIARLEMGPDEY  
EEMEEEEEEEEDEDDSDMDESEDEDEEERRRRVFDVPIRRRRCSRLF

>sp|Q9UH90|FBX40\_HUMAN F-box only protein 40 OS=Homo sapiens GN=FBX040 PE=2 SV=2

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EQVPCLNSEYGCPLSMSRHLAKHLQVCPASVCCSMEWNRWPNVDSETTLHENIMKETP  
SEECCLDTALALQDQKVLFRSLKMVELFPETREATEEEPTMNGETSVEEMGGAVGGVDIGL  
VPHGLSATNGEMAELSQEEREVLAKTKEGMDLVKFGQWENIFSKEHAASALTNSSASCES  
KNKNDSEKEQISSGHNMVEGEGAPKKKEPQENQKQQDVRTAMETGLAPWQDGVLERLKT  
AVDAKDYNMYLVHNGRMLIHFGQMPACTPKERDFVYGKLEAQEVKTVYTFKVPVSYCGKR  
ARLGDAMLCKPSEHKAVDTSDLGITVEDLPKSDLIKTTLQCALERELKGHVISERSID  
GLFMDFATQTYNFEPEQFSSGTVLADLTAATPGGLHVELHSECVTRRHNKSSSAFTFTCN  
KFFRRDEFPLHFKNVHTDIQSCLNGWFQHRCPALYLGCTFVQNHFRPPGQKAKVIYSQEL  
KTFAIKPEVAPELSEGRKNNHLLGHGGSQNSLTSLEILKYIAGFLDSVSLAQLSQVS  
VLMRNICATLLQERGMVLLQWKKKRYSHGGTSWRVHREIWQFSSLFSKIKSWEFNEVTSM  
SEHLKSCFPNIVEHKTDPIILLTSMCQPREQARESLVSTFRIRPRGRYVS

>sp|Q9NRD1|FBX6\_HUMAN F-box only protein 6 OS=Homo sapiens GN=FBX06 PE=1 SV=1

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EGFITKDWQPVADWKIFYFLRSLHRNLLRNPCAEDMFAWQIDFNGGDRWKVESLPGAH  
GTDFDPKVKKYFVTSYEMCLKSQLVDLVAEGYWEELLDTFRPDIVKDWFAARADCGCT  
YQLKVQLASADYFVLASFEPPTVIQQWNNATWTEVSYTFSYDPRGVRYILFQHGGRDTQ  
YWAGWYGRVTNSSIVVSPKMTRNQASSEAQPGQKHGQEEAAQSPYRAVVQIF

>sp|Q9UKA1|FBXL5\_HUMAN F-box/LRR-repeat protein 5 OS=Homo sapiens GN=FBXL5 PE=1 SV=2

MAPFP EEVDVFTAPHWRMKQLVGLYCDKLSKTNFSNNNDFRALLQSLYATFKEFKMHEQI  
ENEYIIIGLLQQRSTIYNVHSDNKLSEMLSLFEKGLKNVNEYEQLNIAKQLKERLEAFT  
RDFLPHMKEEEFVQPMLEMYFTYEELKDIKKKVIAQHCSQKDTAELLRGLSLWNHAEER  
QKFFKYSVDEKSDKEAEVSEHSTGITHLPPEVMLSIFSYLNPQELCRCSQVSMKWSQLTK  
TGS LWKHLYPVHWARGDWYSGPATELDTPEDEWVKNRKDESRAFHEWDEDADIDEESES  
AEESIAISIAQMEKRLLHGLIHNVL PYVGTSVKTLVLAYSSAVSSKMVRQILELCPNLEH  
LDLTQTDISDSAFDSWSWLGCCQSLRHLDLSGCEKITDVALEKISRALGILTSHQSGFLK  
TSTSKITSTAWKNKDITMQSTKQYACLHDLTNKGIGEEIDNEHPWTKPVSENFTSPYVW  
MLDAEDLADIEDTVEWRHNRVESLCVMETASNFSCSTSGCFSKDIVGLRTSVCWQQHCAS  
PAFAYCGHSFCTGTALRTMSSLPESAMCRKAARTRLPKGDLIYFGSEKSDQETGRVL  
LFLSLSGCYQITDHGLRVLTGGGLPYLEHLNLSGCLTITGAGLQDLVSACPSLNDEYFY

YCDNINGPHADTASGCQNLQCGFRACCRSGE

>sp|Q969U6|FBXW5\_HUMAN F-box/WD repeat-containing protein 5 OS=Homo sapiens GN=FBXW5 PE=1 SV=1

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PRHPAAMSWYEEFQRLYDTPCQVEVQTLREHTDQVLHLSFSHSGYQFASCSKDCTVKIWS  
NDLTISLLHSADMRPYNWSYQFSQFNKDDSLLLASGVFLGPHNSSSGEIAVISLDSFAL  
LSRVRNKPYDVFQWLTETSLISGNLHRIGDITSCSVLWLNNAFQDVESENNVVKRLFK  
IQNLNASTVRTVMVADCSRFDSPDLLLEAGDPATSPCRIFDLGSDNEEVVAGPAPAHAKE  
GLRHFLDRVLEGRAQPQLSERMLETQVAELLAQGHQKPPERSATGAKSKYLIFTTGCLTY  
SPHQIGIKQILPHQMTTAGPVLGEGRGSDAFFDALDHVIDIHGHIIGMGLSPDNRYLYVN  
SRAWPNGAVVADPMQPPPIAEIDLLVFDLKTMRVRRALRAHAYTPNDECFFIFLDVS  
RDFVASGAEDRHGYIWRHYNICLARLRHEDVVNSVVFSPQEQLLLTASDDATIKAWRS  
PRTMRVLQAPRPRPTFFSWLASQRR

>sp|Q96LA6|FCRL1\_HUMAN Fc receptor-like protein 1 OS=Homo sapiens GN=FCRL1 PE=1 SV=1

MLPRLLLIICAPLCEPAELFLIASPSHPTGSPVTLTCKMPFLQSSDAQFQCFRDRTRA  
LGPWSSSPKLQIAAMWKEDTGSYWCEAQTMAKSVLRSRQSINVHRVPVADVLETQPP  
GGQVMEGDRLLVICSVAMGTGDTFLWYKGAVGLNLQSKTQSRSLTAEYEIPSVRESDAEQ  
YYCVAENGYGSPSGLVSITVRIPVSRPILMLRAPRAQAAVEDVLELHCEALRGSPPILY  
WIFYHEDITLGSRSAPSGGASFNLSTEEHSGNYSCEANGLGAQRSEAVTLNFTVPTGA  
RSNHLTSGVIEGLLSTLGPATVALLFCYGLKRKIGRRSARDPLRSLPSLPQEFTYLN  
TPGQLQPIYENNVVSGDEVYSLAYNQPEQESVAAETLGHMEDKVSLEIYSRLRKANI  
TDVDYEDAM

>sp|Q96RD9|FCRL5\_HUMAN Fc receptor-like protein 5 OS=Homo sapiens GN=FCRL5 PE=1 SV=3

MLLWVILLVLAPVSGGFARTPRPIIFLQPPWTVFQGERVTLTCKGFRFYSPQKTKWYHR  
YLGKEILRETDPNILEVQESGEYRCQAQGSPLSSPVHLDFFSSASLILQAPLSVFEGDSVV  
LRCRAKAEVTLNNTIYKNDNVLAFLNKRDTDFHIPHACLKDNAYRGTGYKESCCPVSSNT  
VKIQVQEPFTRPVLRASSFQPIISGNPVTLCETQLSLERSDVPLRFRFRDDQTLGLGWS  
LSPNFQITAMWSKDSGFYWCKAATMPYSVISDSPRSWIQVQIPASHPVLTLSPEKALNFE  
GTKVTLHCETQEDSLRTLRYFYHEGVPLRHKSVRCERGASISFSLTTENSGNYYCTADNG  
LGAKPSKAVSLSVTPVSHPVNLSSPEDLIFEGAKVTLHCEAQRGSLPILYQFHHEGAA  
LERRSANSAGGVAISFSLTAHSGNYYCTADNGFGPQRSAVSLSVTPVSHPVLTLSA  
EALTFEGATVTLHCEVQRGSPQILYQFYHEDMPLWSSSTPSVGRVSFSFSLTEHSGNYY  
CTADNGFGPQRSEVVSFVTPVSRPILTLRVPRQAQVVDLLELHCEAPRGSPPILYWF  
YHEDVTLGSSAPSGGEASFNLSTAEHSGNYSCEANGLVAQHSDTISLSVIVPVSRI  
LTFRAPRAQAVVDLLELHCEALRGSSPILYWFYHEDVTLGKISAPSGGASFNLSTTE  
HSGIYSCEADNGLEAQRSEMTLKVAVPVSVPVLTLRAPGTHAAVGDLELHCEALRGSP  
LILYRFFHEDVTLGNRSSPSGGASLNLSLTAHSGNYSCEADNGLGAQRSETVTLYITGL  
TANRSGPFATGVAGLLSIAGLAAGALLYCWLRSKAGRKPASDPARSPSDSDSQEPTYH  
NVPWEELQPVYTNANPRGENVVYSEVRIIQEKKKHAVASDPRLRNKGSPIIYSEVKVA  
STPVSGSLFLASSAPHR

>sp|Q9NWM8|FKBP14\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP14 OS=Homo sapiens  
GN=FKBP14 PE=1 SV=1

MRLFLWNAVLTFLVTSILGALIPPEVKIEVLQKPFICHRKTKGGDLMLVHYEGYLEKDG  
SLFHSTHKHNNQPIWFTLGIILEALKGWDQGLKGMCVGEKRKLIIPPALGYGKEGKGKIP

PESTLIFNIDLLEIRNGPRSHESFQEMDLNDDWKLKDEVKAYLKKEFEKHGAVVNESH  
DALVEDIFDKEDEKDGFI SAREFTYKHDEL

>sp|P62942|FKBP1A\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP1A OS=Homo sapiens  
GN=FKBP1A PE=1 SV=2

MGVQVETISPGDGRTPFKRGQTCVVHYTGMLDGGKFDSSRDNKPFFMLGKQEVIRGW  
EEGVAQMSVQGQRAKL TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

>sp|Q02790|FKBP4\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP4 OS=Homo sapiens GN=FKBP4  
PE=1 SV=3

MTAEMKATESGAQSAPLPMEGVDISPKQDEGV LKVIKREGTGTEMPMIGDRVFVHYTGW  
LLDGT KFDSSLD RKDKFSFDL GKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPP  
KIPP NATLVFEVELFEFKGEDL TEEEDGGI IRRITRGEYAKPNEGATIVEVALEGYYKD  
KLFDQREL RFEIGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSYAFGSVGKEKFQIPP  
AELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGT VYFKEGKYQALLQYKKIVSWL  
EYESSFSNEEAQKAQALRLASHNLAMCHLKLQAFSAAIESCNKALELDSNNEKGLFRRG  
EAHLAVNDFELARADFQKVLQLYPNNKA AKTQLAVCQQRI RRQLAREKKLYANMFERLAE  
EENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQVETEA

>sp|Q13451|FKBP5\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP5 OS=Homo sapiens GN=FKBP5  
PE=1 SV=2

MTTDEGAKNNEESPTATVAEQGEDITSKKDRGV LKIVKRVNGEETPMIGDKVYVHYGK  
LSNGKKFDSSHD RNEPFFVSLGKGQVIKAWDIGVATMKKGEICHLLCKPEYAYGSAGSLP  
KIPSNATLFFEIELDFKGEDLFEDGGI IRRTRKRGEGYSNPNEGATIVEIHLEGRCGGRM  
FDCRDVAFTVGEGEDHDIPIGIDKALEKMQREEQCILYLGP RYGFGEAGKPKFGIEPNAE  
LIYEVTLKSFEKAKESWEMDTKEKLEQAAIVKEKGT VYFKGGKYMQAVIQYGKIVSWLEM  
EYGLSEKESKASESFLAAFLNLAMCYLKLREYTKAVECCDKALGLDSANEKGLYRRGEA  
QLLMNEFESAKGDFEKL VLEVPQNKAARLQISM CQKKAKEHNERDRRIYANMFKKFAEQD  
AKEEANKAMGKKTSEGV TNEKGTDSQAMEEEKPEGHV

>sp|Q9Y680|FKBP7\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP7 OS=Homo sapiens GN=FKBP7  
PE=1 SV=1

MPKTMHFLFRFIVFFYLWGLFTAQRQKKEESTEEVKIEVLHRPENC SKTSKKGDLLNAHY  
DGYLAKDGSKFYCSRTQNEGHPKWFVLGVGQVIKGLDIAMTDMCPGEKRKVVIPPSFAYG  
KEGYGSLEEVFLQNILVSCHRTTLHVLKCMYLLVLNNNTCAEGKIPPDATLIFEIELYA  
VTKGPRSIETFKQIDMDNRQLSKAEINLYLQREFEKDEKPRDKSYQDAVLEDIFKKNDH  
DGDGFISPKEYNVYQHDEL

>sp|Q14318|FKBP8\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP8 OS=Homo sapiens GN=FKBP8  
PE=1 SV=2

MASCAEPSEPSAPLPAGVP PLED FEVL DGVEDAEGEEEEEEEEEDDLSELPPLED MGQ  
PPAEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLP GPPGSSRPVKG  
QVVTVHLQTSLENGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYG  
PQGRSPYIPPHAALCLEVT LKTAVDGPDLEMLTGQERVALANRKRECGNAHYQRADFVLA  
ANSYDLAIIKAITSSAKVDMTFEEEAQLQLKVKCLNNLAASQLKLDHYRAALRSCSLVLE  
HQPDNIKALFRKGKVLAAQQGEYSEAIPI LRAALKLEPSNKTIHAELSKLVKKHAAQRSTE  
TALYRKM LGNPSRLPAKCPGKAWSIPWKWLFGATAVALGGVALSVVIAARN

>sp|P21333|FLNA\_HUMAN Filamin-A OS=Homo sapiens GN=FLNA PE=1 SV=4  
MSSSHSRAGQSAAGAAPGGGV DTRDAEMPATEKDLAEDAPWKKIQNTFTRWCNEHLKCV

SKRIANLQTDLSGLRLIALLEVL SQKKMHRKHNRPTFRQMQLENV SVALEFLDRESIK  
LVSIDSKAIVDGNLKLILGLIWTILHYSISMPMWDEEEDDEEAKKQTPKQRL LGWIQNKL  
PQLPITNFSRDWQSGRALGALVDSCAPGLCPDWDSWDASKPVTNAREAMQ QADDWL GIPQ  
VITPEEIVDPNVDEHSVMTYLSQFPKAKLKP GAPLRPKLNPKKARAYGPGIEPTGNMVKK  
RAEFTVETRSAGQGEVLVYVEDPAGHQEEAKVTANNDKNRTFSVWYVPEVTGTHKVTVLF  
AGQHIAKSPFEVYVDKSQGDASKVTAQGPGLPSGNIANKTTYFEIFTAGAGTGEVEVVI  
QDPMGQKGTVEPQLEARGDSTYRCSYQPTMEGVHTVHVTFAGVPIPRSPYTVTVGQACNP  
SACRAVGRGLQPKGVRVKETADFKVYTKGAGSGELKVTVKGPKEERVKQKDLGDGVYGF  
EYYPMPVPGTYIVTITWGGQNI GRSPFEVKVGT ECGNQKVRAGWGPGLGGVVGKSAD FVVE  
AIGDDVGT LGFSVEGPSQAKIECDDKGDGSCDVRYWPQEAGEYAVHVL C NSEDIRLSPFM  
ADIRDAPQDFHPDRVKARGPGL EKTGVAVNKPAEFTVDAKHGGKAPLRVQVQDNEGCPVE  
ALVKDNGNGTYSYVPRKPVKHTAMVSWGGVSIPNSPFRVNVGAGSHPNKVKVYGP GVA  
KTGLKAHEPTYFTVDCAEAGQGDV SIGIKCAPGVVGP AEADIDFDIIRNDNDTFTVKYTP  
RGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLSRTGVELGKPTHFTVNAK  
AAGKGKLDVQFSGLTKGDAVRDVIDIDHHDNTYTVKYTPVQQGPVGVNVTYGGDPIPKSP  
FSVAVSPSLDLSKIKVSGLGEKVDV GKDQEFTV KSKGAGGQGVASKIVGPSGAAPCKV  
EPGLGADNSVVRFLPREEGPYEVEV TYDGVVPVGPSPFPLEAVAPT KPSKVKAFGPGLQGG  
SAGSPARFTIDTKGAGTGGLGLTVEGPCEAQLECLDNGDGTC SVSYVPTEPGDYNINILF  
ADTHIPGSPFKAHVVP C FDASKVKCSGPGLERATAGEVGQFQVDCSSAGSAELTIEICSE  
AGLPAEYVIQDHGDGHTITITYIPLCPGAYTVTIKYGGQVPNFP SKLQVEPAVDTSGVQC  
YGP GIEGQGVFREATTEFSVDARALTQTGGPHVKARVANPSGNLTETVYQDRGDGM YKVE  
YTPYEEGLHSVDV TYDGSPVPSSPFQVPVTEGCDPSRVRVHGPGIQSGTTNKNKFTVET  
RGAGTGGLGLAVEGPSEAKMSCMDNKGSCSVEYIIPYEAGTYS LNVTYGGHQVPGSPFKV  
PVHDVTDASKVKCSGPGLSPGMVRANLPQSFQVDTSKAGVAPLQVKVQGP KGLVEPVDVV  
DNADGTQTVNYPVSPREGPY SISVLYGDEEVPRSPFKVKVLP THDASKVKASGPGLNTTG V  
PASLPVEFTIDAKDAGEGLLAVQITDPEGKPKKTHIQDNHDGTYTVAYVPDVTGRY TILI  
KYGGDEIPFSPYRVRAVPTGDASKCTVTVSIGGHGLGAGIGPTIQIGEETVITVDTKAAG  
KGKVTCTVCTPDGSEVDVDVVENEDGTFDIFYTAPQPGKYVICVRFGGEHVPNSPFQVTA  
LAGDQPSVQPPLRSQQLAPQYTYAQGGQQTWAPERPLVG VNGLDVTSLRPFDLVIPFTIK  
KGEITGEVRMPSGKVAQPTITDNKDGTVTVRYAPSEAGLHEMDIRYDNMHIPGSPLQFYV  
DYVNCGHVTAYGPGLTHGVVNKPATFTVNTKDAGEGGLSLAIEGPSKAEISCTDNQD GTC  
SVSYLPVLP GDYSILVKYNEQHVPGPSPTARVTGDDSMRMSHLKVGSAADIPIN ISETDL  
SLLTATVVPSPGREEPCLLKRLRNGHVGISFVPKETGEHLVHVKNKGQHVASSPIPVVIS  
QSEIGDASRVRVSGQLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPSKVDINTEDLEDG  
TCRVTYCPTPEGNYIINIKFADQHVPGPSF SVKVTGEGRVKESITRRRRAPSVANVGSHC  
DLSLKIPEISIQDMAQVTSPSGKTHEAEIVEGENHTY CIRFVPAEMGHTVSVKYKGQH  
VPGSPFQFTVGPLGEGGAHKVRAGGPGLERA EAGVPAEFSIWTREAGAGGLAIAVEGPSK  
AEISFEDRKDGSCGVAYVVQEPGDYEVSVKFNEEHIPDSPFVVPVASPSGDARRLTVSSL  
QESGLKVNQPASFVAVSLNGAKGAIDAKVHSPSGALEECYVTEIDQDKYAVRFIPRENGVY  
LIDVKFNGTHIPGSPFKIRVGEPGHGGDPGLVSAYAGLEG GVTGNPAEFVVNTSNAGAG  
ALSVTIDGPSKVKMDCQECPGYRVTYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPR  
LVSNHSLHETSSVFVDSLTKATCAPQH GAPGPGPADASKVVA KGLGLSKAYVGQKSSFTV  
DCSKAGNMMLLVGVHGPRT PCEEILVKHVGSRLYSVSYLLKDKGEYTLVVKWGDEHIPGS  
PYRVVVP

>sp|Q8NFI4|F10A5\_HUMAN Putative protein FAM10A5 OS=Homo sapiens GN=ST13P5 PE=5 SV=1  
MDPCKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGKVPPATQKAKSEENTKEEKP  
DSKKVEEDLKADEPSTEEEDLEIDKEGVIEPDTDAPQEMGDENVEITEEMMDQANDKKVA  
AIEVLNDGELQKAIDLFTDAIKLNPLAILYAKRASVFVKLQKPNAAIQDCDRAIEINPD  
SAQPYKWRGKAHRLLGHWEEAAHDLAFACKLDYDEDASAMLKEVQPRAQKIAEHWKRYER  
KHEEREIKERIERYKKAQEEQERAQREEEARRQSGAHYGPFPGGFPGMPGNFPGMPGM  
GGDMPGMAGMPGLNEILSDPEALAAMQDPEVMVAFQDVAQNPNMSKYQSNPKVMNLISK  
LSAKFGGQA

>sp|Q8TAY7|F110D\_HUMAN Protein FAM110D OS=Homo sapiens GN=FAM110D PE=2 SV=1  
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PASRTPRPRVRRSGRRLRPDLSLIFYRQKRCKASVNKENAKGQGLVRRFLGAPRDAA  
PSSPASTERPAASGGWAAPQDAPEAAGKRALCPTCSLPLESEKERFFNYCGLERALVEVLG  
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PPVSVVERNARVIQWLYGCQRARGPPRESEV

>sp|Q8NC44|F134A\_HUMAN Protein FAM134A OS=Homo sapiens GN=FAM134A PE=1 SV=3  
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RGWEAVLAAAQRLLVWEKPLHSLVTAAALNGLFWLLSSSSLRPFLLSVSLLAYFLDLW  
QPRFLPDVSASSPEEPHSDSEGAGSGARPHLLSVPELCRYLAESWLTQIHLQELLQYKR  
QNPAQFCVRVCSGCAVLAVLGHVYPGIMISYIVLLSILLWPLVVYHELIQRMYTRLEPLL  
MQLDYSMKAEEANALHHKHDKRKRQGNAPPGGDEPLAETSESEAEAGFSPVVDVKKTA  
LALAITDSELSDEEASILESGGFSVRATTPQLTDVSEDLDQQSLPSEPEETLSRDLGEG  
EEGELAPPEDLLGRPQALSRQALDSEEEEDVAAKETLLRLSSPLHFVNTHFNGAGSPPD  
GVKCSPPGPVETLSPETVSGGLTALPGTSLPPLCLVGSDPAPSPSILPPVPQDSPQPLPA  
PEEEEEALTTFELLDQGELEQLNAELGLEPETPPKPPDAPPLGPDHSLVQSDQEAQAV  
AEP

>sp|Q9BRX8|F213A\_HUMAN Redox-regulatory protein FAM213A OS=Homo sapiens GN=FAM213A PE=1  
SV=3  
MSFLQDPSFFTGMWSIGAGALGAAALALLANTDVFLSKPQKALEYLEDIDLKTLEKE  
PRTFKAKELWEKNGAVIMAVRRPGCFLCREEAADLSSLKSMQLDQGVPLYAVVKEHIRTE  
VKDFQPYFKGEIFLDEKKKFYGPQRRKMMFMGFIRLGVWYNFFRAWNGGFSGNLEGEFGI  
LGGVFVVGSGKQGILLEHREKEFGDKVNLLSVLEAAKMIKPQTLASEKK

>sp|Q5XKK7|F219B\_HUMAN Protein FAM219B OS=Homo sapiens GN=FAM219B PE=1 SV=1  
MATAEPSGRALRLSTPGPRPSGARDRAPGAAGPPSGQIGNRALRLGERTPAAVEKRGPYM  
VTRAPSIQAKLQKHRDLAKAVLRRKGMLGASPNRPDSSGKRSVKFNKGYTALSQSPDENL  
VSLDSDSDGELGSRYSYSSAEQVNQDVSRQLLDQGYHLDEIPDDEDLDLIPPKPMAS  
TCSCCWCLGDSSSCTLQ

>sp|Q5U5X8|F222A\_HUMAN Protein FAM222A OS=Homo sapiens GN=FAM222A PE=2 SV=1  
MLACLQRTQNAPGQHLACPSKSLERKCEAVASAMHSSRYPSPAELDAYAEKVANSPLSI  
KIFPTNIRVPQHHLSTVNGYDTSGQRYSPYPQHTAGYQGLLAIVKAAVSSSSTAAPAG  
PAKSVLKSAEGKRTKLSAAVQVGIAPYPVPSTLGPLAYPKPPEAPAPPPGLPAAATAAS  
VIPLPGRGLPLPPSNLPSIHSLLYQLNQCCQAPGAAPPACQGMALPHPSPAKHGVPVSFP  
SMAYSAAGLPDCRKGTELGGATQALTLAGAAKPAGYADSGLDYLLWPQKPPPPPPQPL  
RAYSGSTVASKSPEACGGRAYERASGSPLNCGVGLPTSFTVGQYFAAPWNSVLVTPTSDC  
YNPAAAVVVELGPGAARELAGPPADALSGLPSKSVCNTSVLSSSLQSLEYLINDIRPPC

IKEQMLGKGYETVAVPRLLDHQHAHIRLPVYR

>sp|Q6P4D5|F222C\_HUMAN Protein FAM122C OS=Homo sapiens GN=FAM122C PE=2 SV=1  
MAQEKMKLGFKSLPSSTADGNILRRVNSAPLINGLGFNSQVLQADMLRIRTNRTTFRNR  
RSLLLPPPPFHGSISSLRHQIKQEEAMDILINRETMSSEWKLQSEIQISHSWEEGLKLVKWHF  
NINQKRFSKAQPTCFLLILPNCQKIMCIYFQLLLMTTAMLDLLVIRQLKSALSQTLLCH  
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>sp|F5H4B4|F227A\_HUMAN Protein FAM227A OS=Homo sapiens GN=FAM227A PE=1 SV=1  
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IADINLRTEPSANSLAIERFELEKKALREKTRSSPEDKVKRQRKSQYSCKGSELRHARSS  
VIKRTADKNLLAELYQYSNFNSSKPNKLPNGVDFCDMVGNNVRAERDCLSGKHFCSGRE  
LEKFLSSSSPRAIWLDSFWWIFHERYQPNKELQNNLFDRIAQHYALLFRVPKSHSEEAL  
LKRLPSLLSKAVYTSFCCCFPQSWFDTHEFKSDICNTMSLWISGTYPSPQSYSDWDYSEL  
DPERFRREELMLYRRRLTKGREFSLFAGKRAFSQKPAQSRKFYHPQSSSANSPEKTSSA  
KQNSEKSLRMQNTAKEHHCQTLVLKKPTQEVKRISEARECENMFPPKSCAAACKSPELTSN  
LFNIYGKSPLIVYFLQNYASLQHQGNVLIVRREKTTSTPDCTPTYTDVISETLCSMKKR  
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>sp|A2RU67|F234B\_HUMAN Protein FAM234B OS=Homo sapiens GN=FAM234B PE=1 SV=1  
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DSDAEVAEAAKPHLSEVTTEGYPSEPLGGLEQKAASSLVSYRTSVFLLTLGISMILVLL  
CAFLIPCPRDLHSTWSRHLGSQGGDLSPLELADVNGDGLRDVLLSFVMSRNGSAVGVS  
RPAANLVCLSGMNGSTLWSSLLPEEARDITCLELMPGSLAETICLVGTGTHKMLSAFNATS  
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GRPVKYNIVGVGNLIGPVYITNGAVYILFGFGNIQAVALRDIQVQAQNRDSSPPSLQI  
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ALRLQGLRSQPTPGYFTDDQTLDFLLQIQDGVGMKMMVVDGDSGSIVWSYRAPCHMKET  
PATSAVTSQKSVFLFWAEGLSAASPNSDIILGTEPPSLHHLVLLHPAFPSILLDLANTT  
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>sp|Q08E93|F27E3\_HUMAN Protein FAM27E3 OS=Homo sapiens GN=FAM27E3 PE=1 SV=1  
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>sp|Q05BU3|F86JP\_HUMAN Putative protein FAM86JP OS=Homo sapiens GN=FAM86JP PE=5 SV=1  
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>sp|A6NJQ4|F90A8\_HUMAN Putative protein FAM90A8P OS=Homo sapiens GN=FAM90A8P PE=5 SV=1  
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MKCWKAALVPATLGKKEGKENLKPWKPRGEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
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ASLSPLRKASLSSSSSLGPKERQTGAAADIPQPAVRHQGREPLLVKPHTSRPEGGCREV  
PQAASKTHGLLQAARPAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGAKRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSID  
RQPPHSTPCLPTAQACTMSHSAASHDGAQPLRVLFRRENGRWSSSLLAAPS FHSPEKP  
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>sp|Q6ZT52|FA43B\_HUMAN Protein FAM43B OS=Homo sapiens GN=FAM43B PE=2 SV=1

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MQPCERSAAGSGGRRPAHAYLLPRITYCTADGRHPRVFAWVYRHQARHKAVVLRCHAVL  
LARAHKARALARLLRQTALAAFSDFKRLQRQSDARHVRQQHLRAGGAAASVPRAPLRRL  
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>sp|Q8NEK8|FA46D\_HUMAN Protein FAM46D OS=Homo sapiens GN=FAM46D PE=1 SV=1  
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ARLNGSVASYILASHNGISYKDLDFVIGVELPGNEEFQVVKDAVLDCLLDLFLPKDVKKEK  
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SLLVHGFKPACMSEIKNLERYMCSRFFIDFPHIEEQKKIESYLNHFIGEGMTKYDYLM  
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>sp|Q6ZV65|FA47E\_HUMAN Protein FAM47E OS=Homo sapiens GN=FAM47E PE=2 SV=3  
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PCTGLVTQVPVEGFPLQIYHRAPQLAPKKRQIKLLKEADVLSKLSPAQQARKAFLEDVEA  
HLTPHPLALYLNLEEAMPIELLSKVLEVLDPDRKLEDTWAYCQDTRKGMKEPTKLLKKHS  
TQVYLGPSKKTSVSNAGQWLYEEKPHKMDLLHENGPRPGLHENGISDIDEEFILKQFDID  
YETKPSHDALHTMKLNQVPLELKRSVGLSKLQETEFFQKLYERKLQKPQNPYKPKWVKM  
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>sp|Q6NSI3|FA53A\_HUMAN Protein FAM53A OS=Homo sapiens GN=FAM53A PE=1 SV=1  
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SQAATGPDFSFLPGLSAAAHMTGLQWQPQSPRPGAGLGAASTVDPSESTGSSTAPTKRH  
CRSLSEPEELVRCRSPWRPGSSKVWTPVSKRRCDSGGSATRQGSFGAVLPRSAVWSTGPT  
SPATPRPSSASGGFVDSSEGSAGSGLWCSAESCLPSTRRRPSSLSQERLAGAGTPLPAS  
SSPTSTPALGGRRGLLRCRSQPCVLSGKRSRRKRRREEDARWTRPSLDFLKMTQTLKNSK  
SLCSLNYEDDDDDTPVKTVLSSPCDSRGLPGITMPGCSQRGLRTSPVHPNLWASRESVT  
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>sp|Q8TBR7|FA57A\_HUMAN Protein FAM57A OS=Homo sapiens GN=FAM57A PE=1 SV=2  
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SCDDVITGRHWLAREYVWFLIPYMIYDSYAMYLCEWCRTDQNRAPSLTLRNFLSRNRLM  
ITHHAVILFVLVPVAQRLRGDLGDFVGCIFTAELSTPFVSLGRVLIQLKQQHTLLYKVN  
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>sp|Q71RH2|FA57B\_HUMAN Protein FAM57B OS=Homo sapiens GN=FAM57B PE=2 SV=1  
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IARGYLHKEFLMVLHHAAMVLVCFPLSVVWRQKGKDFFLGCMLEAVSTPFVCLGKILIQ  
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LLAPQLYWFFLICRGACRLFWRPRSRPPACQAQD

>sp|Q8N5J2|FA63A\_HUMAN Ubiquitin carboxyl-terminal hydrolase MINDY-1 OS=Homo sapiens  
GN=FAM63A PE=1 SV=2

MEYHQPEDPAPGKAGTAEAVIPENHEVLAPDEHPQD TDARDADGEAREREPADQALLPS  
QCGDNLESPLPEASSAPPGPTLGTLP EVETIRACSM PQELPQSPRTRQPEPDFYCVKWIP  
WKGEQTPITITQSTNGPCLLAIMNILFLQWKVKLP PQKEVITSDELMAHLGNCLLSIKPQ  
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LVDPQSPEAVRAVGKLSYNQLVERIITCKHSSDTNLVTEGLIAEQFLETTAAQLTYHGLC  
ELTAAAKEGELSVFFRNHFSTMTKHKSHLYLLVTDQGFLQEEQVWESLHNVDGDSFCFC  
DSDFHLSHSLGKGPAGEGSGSPETQLQVDQDYLI ALSLQQQQPRGPLGLTDLELAQQLQ  
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>sp|Q5VUD6|FA69B\_HUMAN Protein FAM69B OS=Homo sapiens GN=FAM69B PE=1 SV=3

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ETLDSKARSDAAPRELVLFDKPTRGTSIKEFREMTLSFLKANLGDLPSPALVGQVLLM  
ADFNKDNRVSLAEAKSVWALLQRNEFLLLLSLQEKEHASRL LGYCGDLYLTEGVPHGAWH  
AAALPPLRLPLLPALQ GALQWLGPAPWPRAKIAIGLLEFVEELFHGSYGTfYMCETTL  
ANVGYTATYDFKMADLQQVAPEATVRRFLQGRRCHESTDCTYGRDCRAPCDRLMRQCKGD  
LIQPNLAKVCALLRGYLLPGAPADLREELGTQLRTCTTSLGLASQVEAHHSVLVSHLCTL  
LWKKISNTKYS

>sp|Q96LP2|FA81B\_HUMAN Protein FAM81B OS=Homo sapiens GN=FAM81B PE=1 SV=3

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QARTIAFLLEQAFRIKEDISACLQGTHGFRKEESLARKLLESHIQTITSIVKKLSQNIEI  
LEDQIRARDQAATGTNFVHEINIKHLQGVGDLRGRVARCDSSIVKLSGDIHLFRQEHRQ  
IEKAIQEFVPALETLSKNLDMKVMQLLGKIETASPEQTSNLKMVQGDYHEMNLLFEKFKH  
SLSSNLYEEVENNKKWTENQFLKYRKDHLGHINECLKVLQEKLEKSENKMEEKLLQLSSK  
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>sp|Q2M2I3|FA83E\_HUMAN Protein FAM83E OS=Homo sapiens GN=FAM83E PE=1 SV=2

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ADEVQGLAAAAEDWTVAKEPESGMAEGATTDDVDAGSLSYWPGQSEQPAPVLR LGWPVDS  
AWKGITRAQLYTQPPGEGQPPLKELVRLEIQAAHKL VAVVMDVFTDPDLLLLDLVDAATTR  
WVPVYLLLDQRQLPAFLELAQQLGVNPNWNTENVDRVRVVGCSFQSRWRRQVSGTVREKFV  
LLDGERVISGSYSFTWSDARLHRGLVTLLTGEIVDAFSLEFRTL YAASCPLPPAPPQKPS  
VIGGLQRGRSPHRVSRRRSVAPASPPPDGPLAHLAACRVSPATPGPALSDILRSVQRA  
RTPSGPPARPSRSMWDL SRLSQLSGSSDGDNELKKSWSGSKDTPAKALMRQRTGGGPWGE  
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>sp|A6ND36|FA83G\_HUMAN Protein FAM83G OS=Homo sapiens GN=FAM83G PE=1 SV=2

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ELELKRILETIEVYDPGSEDPRGTGPSQGPEDNGVGDGEEASGADGVPIEAEPLPSLEYW  
PQKSDRSIPQLDLGWPDTIAYRGVTRASVYMQPPIDGQAHIKEVVRKMISQAQKVI AVVM  
DMFTDVIDIFKDLLDAGFKRKVAVYIIVDES NVKYFLHMCERACMHLGHLKNLRVRSSGGT  
EFFTRSATKFKGALAQKFMFVDGDRVCGSYSFTWSAARTDRNVISVLSGQVVMFDRQF  
QELYLMSHSVSLKGIPMEKEPEPEPIVLPSVPLVPAGTVAKKLVNPKYALVKAKSVDEI  
AKISSEKQEAKKPLGLKGPALAEHPGELPELLPPIHPGLLHLERANMFEYLP TWVEPDPE  
PGSDILGYINI IDPNIWNPQSQMNRIKIRDTSQASAQHQLWKQSQDSRPRPEPCPPPEP



SAPQDGVPAENGLPQGDPEPLPPVPKPRTVPVADVLRDSSDIGWLELPKEEAPQNGTD  
HRLPRMAGPGHAPLQRQLSVTQDDPESLGVGLPNGLDGVEEEDDDYVTLSDQDSHSGSS  
GRGPGPRRPSVASSVSEYFEVREHSVPLRRRHSEQVANGPTPPRRQLSAPHITRGTFV  
GPQGGSPWAQSRGEEADALKRMAQQRSTDKEAQQQFHHRVPASGTRDKDGFPGPPRY  
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>sp|POC7U9|FA87A\_HUMAN Protein FAM87A OS=Homo sapiens GN=FAM87A PE=2 SV=1

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WLWEPPGYLHSSLFSLILFQVTLLETALQSRPNLSLPLVRCGWACTQAMSTRSNCGRSF  
LWAQTQADAASGLPRSLGFLGLGGGLIVKHGMLRNWASFFVVFQAWSLMILQVLGDM  
LNIYYAYIQATLTLKVDVAPRLFFPEGGALKEHFSSMDSFQLREAGGTRIPRALIYGRA  
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>sp|Q9UBU6|FA8A1\_HUMAN Protein FAM8A1 OS=Homo sapiens GN=FAM8A1 PE=1 SV=1

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AAAADKLEPPRELKRGEAASGGAELQEQAGCEAPEAAAPRERPARLSAREYSRQVHEW  
LWQSYCGYLTWHSGLAAFPAYCSPQSPQSFPSGGAAVPQAAAPPPQLGYYNPFYFLSP  
GAAGPDRTAAGISTPAPVAGLGPRAPHVQASVRATPVTRVGSAAPSRSPSETGRQAGRE  
YVIPSLAHRFMAEMVDFILFFIKATIVLSIMHLSGIKDISKFAMHYIEEIDEDTSMED  
LQKMMVVALIYRLLCFYEIICIWGAGGATPGKFLGLRVVTCDTSVLIAPSRVLVIPSS  
NVSITTSTIRALIKNFSIASFFPAFITLLFFQHNRATYDIVAGTIVVKNRNGVR

>sp|P00451|FA8\_HUMAN Coagulation factor VIII OS=Homo sapiens GN=F8 PE=1 SV=1

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TSVVYKKTLFVEFTDHLFNIAPRPPWMGLLGPTIQAEVYDVTVITLKNMASHPVSLHAV  
GVSYWKASEGAEYDDQTSQREKEDDKVFPGGSHTYVWQVLKENGPMASDPLCLTYSYLSH  
VDLVKDLNSGLIGALLVCREGSLAKEKTQTLHKFILLFAVFDEGKSWHSETKNSLMQDRD  
AASARAWPKMHTVNGYVNRSLPGLIGCHRKSYYWHVIGMGTTPEVHSIFLEGHTFLVRNH  
RQASLEISPITFLTAQTLLMDLGQFLLFCHISSHQHDGMEAYVKVDSCPEEPQLRMKNNE  
EAEDYDDDLTDSEMDVVRFDDDNSPSFIQIRSVAKKPKTWVHYIAEEEDWDYAPLVLA  
PDDRSYKSQYLNNGPQRIGRKYKKVRFMAYTDETFKTREAIQHESGILGPLLYGEVGD  
TLIIIFKNQASRPYNIYPHGITDVRPLYSRRLPGVKHLKDFPILPGEIFKYKWTVTVEDGP  
TKSDPRCLTRYSSFVNMERDLASGLIGPLLYCYKESVDQQRNQIMSDKRNILFSVFDE  
NRSWYLTENIQRFLPNPAGVQLEDPEFQASNIMHSINGYVFDLSLQSVCLHEVAYWYILS  
IGAQTDFLSVFFSGYTFKHKMVYEDTLTLFPFSGETVFMSENPGLWILGCHNSDFRNRG  
MTALLKVSSCDKNTGDYEDSYEDISAYLLSKNNAIEPRSFQNSRHPSTRQKQFNATTI  
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SNNLISTIPSDNLAAGTDNTSSLGPPSMPVHYDSQLDTTLFGKKSSPLTESGGPLSLSEE  
NNDKLLSEGLMNSQESSWGKNVSSSTESGRLFKGKRAHGAPALLTKDNALFKVSI  
SLKTNKTSNNSATNRKTHIDGPSLLIENSPSVWQNI  
LESDETFKKVTPLIHDRMLMDKNATALRLNHMSNKTSSKNMEMVQKKEGPIPPDAQNP  
DMSFFKMLFLPESARWIQRTHGKNSLNSGQGPSPKQLVSLGPEKSV  
EQNFLSEKNKVVVGGEFTKDVGLKEMVFPSSRNLF  
LTNLDNLHENNTHNQEKKIQEEIEKKETLIQENVVLPQIHTVTGT  
KNFMKNLFLLSTRQNVESYDGAYAPVLQDFRSLNDSTNR  
TKKHTAHFSKKGEEENLEGLGNQTKQIVEKYACTTRISPNT  
SQQNFVTQRSKRALKQFRLPLEETELEKRIIVDDTSTQWSKNMKH  
LTPSTLTQIDYNEKE

KGAITQSPLSDCLTRSHSIPQANRSPLPIAKVSSFPSIRPIYLTRVLFQDNSSHLPAASY  
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KPDLPKTSGBKVELLPKVHIYQKDLFPTETSNQSPGHLDLVEGSLQGTGAIKWNEANRP  
GKVPFLRVATESSAKTPSKLLDPLAWDNHYGTQIPKEEWSQEKSPKTAFFKKKDTILSL  
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AQSGSVPQFKKVVFQEFTDGSFTQPLYRGELNEHLGGLPYIRAEVEDNIMVTFRNQASR  
PYSFYSSLISYEEDQRQGAEPKRFVKNETKTYFWKVQHMAPTKDEFDCKAWAYFSDV  
DLEKDVHSGLIGPLLCHTNTLNPAHGRQVTVQEFALFFTIFDETKSWYFTENMERNCR  
PCNIQMEDPTFKENYRFHAIINGYIMDTLPGLVMAQDQIRWYLLSMGSNENIHSIHFSGH  
VFTVRKKEEYKMALYNLYPGVFETVEMLPKAGIWRVECLIGEHLHAGMSTLFLVYSNKC  
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TWSPSKARLHLQGRSNAWRPQVNNPKEWLQVDFQKTMKVTVTTQGVKSLLTSMYVKEFL  
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>sp|P00740|FA9\_HUMAN Coagulation factor IX OS=Homo sapiens GN=F9 PE=1 SV=2

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ERECMEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESNPCLNGGCKDDINSYECWCP  
FGFEGKNCELDVTCNIKNGRCEQFCKNSADNKVVCSTEGYRLAENQKSCEPAVPFPCGR  
VSVSQTSLTRAETVFPDQVYNSTEAEITLDNITQSTQSFNDFTRVVGGEDAKPGQFPW  
QVVLNGKVDAFCGGSIVNEKWIVTAAHCVETGVKITTVAGEHNIEETEHEQKRNVIIRI  
PHHNYNAAINKYNHDIALLELDEPLVLNSYVTPICIAKEYTNIFLKFGSGYVSGWGRVF  
HKGRSALVLQYLRVPLVDRATCLRSTKFTIYNNMFCAGFHEGGRDSCQGDGGPHVTEVE  
GTSFLTGIISWGEECAMKGKGIYTKVSRYVNWIKETKLT

>sp|Q0Z7S8|FABP9\_HUMAN Fatty acid-binding protein 9 OS=Homo sapiens GN=FABP9 PE=1 SV=1

MVEPFLGTWKLVSSENFEDYMKELGVNFAARNMAGLVKPTVTISVDGKMMTIRTESSFD  
TKISFKLGEEFDETTADNRKVKSTITLENGSMIHVQKWLKETTIRKIVDEKMOVVECKM  
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>sp|Q96K12|FACR2\_HUMAN Fatty acyl-CoA reductase 2 OS=Homo sapiens GN=FAR2 PE=2 SV=1

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DSKLFKVKVPCPNVHEKIRAIYADLNQNDFAISKEDMQELLSCTNIIFHCAATVRFDDT  
LRHAVQLNVTATRQLLLMASQMPKLEAFIHISTAYSNCNLKHIDEVIYPCPVEPKIIDS  
LEWLDDAIIDEITPKLIRDWPNIYTYTKALGEMVVQESRNLNIAIIRPSIVGATWQEPF  
PGWVDNINGPNGIIATGKGFLRAIKATPMAVADVIPVDTVNLMLAVGWYTAVHRPKST  
LVYHITSGNMNPNCHWKMVGVLATFEKIPFERPFRPNANFTSNTSFTSQYWNVSHRAP  
AIIYDCYLRLTGRKPRMTKLMNRLRTVSMLEYFINRSWEWSTYNTMLMSELPEDQRV  
FNFDVRQLNWLEYIENYVLGVKKYLLKEDMAGIPKAKQRLKRLRNHYLFNTALFLIAWR  
LLIARSQMARNVWFFIVSFCYKFLSYFRASSTLKV

>sp|Q14CZ7|FAKD3\_HUMAN FAST kinase domain-containing protein 3, mitochondrial OS=Homo sapiens GN=FASTKD3 PE=1 SV=2

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HCKKFHSGKNGNDLHPLGGPVFSQVSDCDRLQNVKNEESQMFYRRLSNLTSSEEVLFSFIS

TMETLPDTMAAGALQRICEVEKKDGDQGLPKEILENSIFQALCFQFEKEPSQLSNTSLVT  
ALQALILLHVDPPQSSLLLNVAECQNRLRKGGMEVRNLCILGESLITLHSSGCVTLELII  
NQLQGEKLETFTPEDIVALYRILQACTEKVDEHQTFLNKINNFSLSIVSNLSPKLISQML  
TALVVLDDQSQAFLPIIKLGKYVVRHVPHTNEELRRVLEAFIYFGHHDFTFTKALEHRVA  
AVCLTLDPEVVCRVMEYCSRELILSKPILNAVAETFVCQTEKFSRQISALMEPFGKLN  
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KESHLDTLSRAQLTQLFLASVLECPFYKGPKLLPKYQVKSFLTPCCSLETPVDSQLYRYV  
KIGLTNLLGARLYFAPKVLTPYCYTIDVEIKLDEEGFVLPSTANEDIHKRIALCIDGPKR  
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QE

>sp|075426|FBX24\_HUMAN F-box only protein 24 OS=Homo sapiens GN=FBX024 PE=1 SV=2  
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ALGQTCRYFHEVCDGEGVWRRICRRLSPRLQDQSGVWPWKRAAILNYTKGLYFQAFGGR  
RRCLSKSVAPLLAHGYRRFLPTKDHVFILDYVGTLLFFLKNALVSTLGQMQRACRYVVL  
CRGAKDFASDPRCDTVYRKYLVLATREPQEVVGTSSRACDCVEVYLQSSGQRVFKMTF  
HHSMTFKQIVLVGQETQRALLLLEEGKIYSLVVNETQLDQPRSYTVQLALRKVSHYLP  
LRVACMTSNQSSTLYVTDQGGVYFEVHTPGVYRDVLTGAFDPLDQQMPLALSPLAKIL  
FCALGYNHLGLVDEFGRIFMQGNRYGQLGTGDKMDRGEPTQVCYLQRPITLWCGLNHS  
VLSQSSEFSKELLGCGCGAGGRPGWPKGSAFVKLQVKVPLCACALCATRECLYLSSH  
DIEQHAPYRHLPASRVVGTPEPSLGARAPQDPGMAQACEEYLSQIHSCQTLQDRTEKMK  
EIVGWMLMAAQKDFWEALDMLQRAEGGGGGVGPAPET

>sp|Q9UK22|FBX2\_HUMAN F-box only protein 2 OS=Homo sapiens GN=FBX02 PE=1 SV=2  
MDGDGPESVGQPEEASPEEQPEEASAEERPEDQEEEEAAAAAYLDELPEPLLRVLA  
ALPAAELVQACRLVCLRWKELVDGAPLWLLKCQEQGLVPEGGVEERDHWQFYFLSKRR  
RNLLRNPCGEEDLEGWCDVEHGGDGRVEELPGDSGVEFTHDES VKKYFASSFEWCRKAQ  
VIDLQAEGYWEELDTTPAIVKDWYSGRSDAGCLYELTVKLLSEHENVLAEFSSGQVA  
VPQSDSGGWMEISHTFTDYGPGVRFVRFEHGGQDSVYWKWFGARVTNSSVWVEP

>sp|Q8NEA4|FBX36\_HUMAN F-box only protein 36 OS=Homo sapiens GN=FBX036 PE=2 SV=2  
MASWLPETLFETVGQPPPSKDYQLLVTRSQVIFRWWKISLRSEYRSTKPGAEKETHED  
FLENSHLQGQTALIFGARILDYVINLCKGKFDLERLSDDLTLTIISYLDLEDIARLCQT  
SHRFAKLCMSDKLWEQIVQSTCDTITPDVRLAEDTGWRQLFFTNNKLQLQRQLRKRKQKY  
GNLREKQP

>sp|Q4G163|FBX43\_HUMAN F-box only protein 43 OS=Homo sapiens GN=FBX043 PE=1 SV=3  
MSFKDKDERISCLEAYVTLSKSSRFTDETEILKMSQRHSGQAGTEAGNGADSPPIVNSK  
YSTFRDFCSTSSFQDSGYNELKSCSFDNIDKEYLGKKEKGPTLLYEHPEPSTGLGLTHPLE  
SPTQKKKCILPRKEKDTPELCETPKISGKKCLPRRRLNVSFALLKGD FESQNSSLESSI  
SQVINLEKNIPSSASGFSRANFNSPLVTSTLKTEEVTSCSQKLRLNFSQQKTSTIDDSKD  
DCSLFEVEECISPIQGNNFKDSITHDFSDDLINDENACPELLGSSVSGTTCGTDEDIFV  
TPISNLVANIRFNASQILSPSEVRGSIPTEDSGFNSLSLEKSEDSLSDQEGSFQELLQ  
KHKGTPKVGDITRKTRHLGRSRLSTLREQSSQSETEEEKQIVHPDSEKRAAAAASISEG  
QLSSDESGDLTFSKLNLSKTPALQLVHELFMKSRRKRLQENSGHEFLEQGDGEKIAVLQC  
ILAGLIGKKMGIEKLDILTELKYRNKHLAMVLESLTAESLCSVVKVSRNWREIVVQDK  
NANRRRKFYITQLKTDSEGAVLNVEDAATRLQLLNRSALRSVQAQARIPGSQREQGSTLS  
PWGEVLTPLASSSVTHLSSKQEEYVKVAKTLFTDEALKPCPRCQSPAKYQPYKKRGLCSR

TACGDFDFCVLCLCAYHGSEECRGAAPRNRKDALPGSAQSKRNLRKRL

>sp|Q9H4M3|FBX44\_HUMAN F-box only protein 44 OS=Homo sapiens GN=FBX044 PE=1 SV=3

MAVGNINELPENILLELFTHVPARQLLLNCRVCSLWRDLIDLVTWKRKCLREGFITED  
WDQPVADWKIFYFLRSLHRNLLHNPCAEEGFEFWSLDVNGDEWKVEDLSRDQRKEFPND  
QVKKYFVTSYYTCLKSQVVDLKAEGYWEELMDTTRPDIEVKDWFAARPDCGSKYQLCVQL  
LSSAHAPLGTFPDPATIQKSDAKWREVSHTFSNYPPGVRYIWFQHGVDTHYWAGWYG  
PRVTNSSITIGPPLP

>sp|Q9UKT5|FBX4\_HUMAN F-box only protein 4 OS=Homo sapiens GN=FBX04 PE=1 SV=2

MAGSEPRSGTNSPPPFSDWGRLEAAILSGWKTFWQSVSKERVARTTSREEVDEAASTLT  
RLPIDVQLYILSFLSPHDLCLGSTNHYWNETVRDPIWRYFLLRDLPSWSSVDWKSLLPD  
LEILKKPISEVTDGAFFDYMAVYRMCCPYTRRASKSSRPMYGAVTSFLHSLIIQNEPRFA  
MFGPGLEELNTSLVLSMSSEELCPTAGLPQRQIDGIGSGVNFQLNNQHKFNILILYSTT  
RKERDRAREEHTSAVNKMFSRHNEGDDQQGSRYSVIPQIQKVCEVVDGFIYVANAEEHHR  
HEWQDEFSSHIMAMTDPAFGSSGRPLLVLSCISQGDVKRMPCFYLAHELHLNLLNHPWLQ  
DTEAETLTGFLNGIEWILEEVESKRAR

>sp|Q9UK97|FBX9\_HUMAN F-box only protein 9 OS=Homo sapiens GN=FBX09 PE=1 SV=1

MPDIIWVFPPQAEAEEDCHSDTVRADDDEENESPAETDLQAQLQMFRAQWMFELAPGVSS  
SNLENRPCRAARGSLQKTSADTKGKQEQAKEEKARELFLKAVEEEQNGALYEAIKFYRRA  
MQLVPDIEFKITYTRSPDGDGVGNSYIEDNDDDSKMADLLSYFQQQLTFQESVLKLCQPE  
LESSQIHISVLPMEVLMYIFRWVVSDDLRLSLEQLSLVCRGFYICARDPEIWRACLKV  
WGRSICKLVPTYSWREMFLERPRVRFDGVYISKTTYIRQGEQSLDGFYRAWHQVEYYRYI  
RFFPDGHVMMLTTPPEPQSIVPRLRTRNTRDAILLGHYRLSQDTDNQTKVFAVITKKKE  
EKPLDYKYRYFRRVPVQEQADQSFHVGLQLCSSGHQRFNKLIWIHHSCHITYKSTGETAVS  
AFEIDKMYTPLFFARVRSYTAFSERPL

>sp|Q9UKC9|FBXL2\_HUMAN F-box/LRR-repeat protein 2 OS=Homo sapiens GN=FBXL2 PE=1 SV=3

MVFSNNDEGLINKKLPKELLLRIFSFLDIVTLRCRAQISKAWNIALDGSNWQRIDLNFN  
QTDVEGRVVENISKRCGGFLRKLRLGCIQVGDSSLKTFQAQNCRNIEHLNLNGCTKITDS  
TCYSLSRFCSKLHDLTSCVSITNSSLKGISEGCNLEYLNLSCWDQITKDGIEALVRG  
CRGLKALLRGCTQLEDEALKHIQNYCHELVSLNLQSCSRITDEGVVQICRGCHRLQALC  
LSGCSNLTASLTALGLNCPRLQILEAARCSHLTDAGFTLLARNCHELEKMDLEECILIT  
DSTLIQLSIHCPKLQALSLSHCELITDDGILHLSNSTCGHERLRVLELDNCLLITDVALE  
HLENCRLERLELYDCQVTRAGIKRMAQLPHVKVHAYFAPVTPPTAVAGSGQRLCRCC  
VIL

>sp|Q9UKA2|FBXL4\_HUMAN F-box/LRR-repeat protein 4 OS=Homo sapiens GN=FBXL4 PE=1 SV=2

MSPVFPMLTVLTMFYIICLRRRARTATRGEMMNTHRAIESNSQTSPLNAEVVQYAKEVVD  
FSSHYGSENSMSYTMWNLGVPNVFPSSGDFQTAVFRITYGTWWDQCPASLPPFKRTPPN  
FQSQDYVELTFEQQVYPTAVHVLETYHPGAVIRILACSANPYSNPPAEVRWEILWSERP  
TKVNASQARQFKPCIKQINFPTNLIRLEVNSSLLEYYTELDAVVLHGVKDKPVLSTSL  
IDMNDIEDDAYAEKDGCGMDSLKKFSSAVLGEPPNNGYFDKLPYELIQLILNHLTLPDL  
CRLAQTCCKLLSQHCCDPLQYIHLNLQPYWAKLDDTSLEFLQSRCTLVQWNLNLSWTGNRGF  
ISVAGFSRFLKVCSELVRLELSCSHFLNETCLEVISEMCPNLQALNLSSCDKLPPQAFN  
HIAKLSLKRLLVYRTKVEQTALLSILNFCSELQHLSLGSCVMIEDYDVIASMIGAKCKK  
LRTLDLWRCKNITENGIAELASGCPLLEELDLGWCPTLQSSTGCFTRLAHQLPNLQKFL  
TANRSVCDTDIDELACNCTRLQQLDILGTRMVSPASLRKLLSECKDLSLLDVSFCSQIDN

RAVLELNASF PKVFIKKSFTQ

>sp|Q96CD0|FBXL8\_HUMAN F-box/LRR-repeat protein 8 OS=Homo sapiens GN=FBXL8 PE=1 SV=1

MAEPGEGLPEEV LALIFRHLSLRDRAAAARVCRAAAAATCSAVWHDTKISCECELEGML  
PPYLSACL DHIHNLRLFEFEP SRKPSRRAAIELLMVLAGRAPGLRGLRLECRGEKPLFDAG  
RDVLEAVHAVCGAASQLRHLDLRRLSFTLDDALVLQAARSCPELHSLFLDNSTLVGSVGP  
GSVLELLEACPRLRALGLHLASLSHAILEALAAPDRAPFALLALRCACPEDARASPLPNE  
AWVALRRRHPLGLAVELELEPALPAESVTRVLQPAVPVAALRLNLSGDTVGPVRF AAHHYA  
ATLCALEVRAAASAE LNAALEELAAARCAALREVHCFVSHSVLDAFRAHCPRLRTYTLK  
LTREHPWRPTLVA

>sp|Q9UKT8|FBXW2\_HUMAN F-box/WD repeat-containing protein 2 OS=Homo sapiens GN=FBXW2 PE=1  
SV=2

MERKDFETWLDNISVTFLSLTDLQKNETLDHLISLSGAVQLRHLSNNLETLLKRDFLKL  
PLELSFYLLKWLDPQTLLTCCLVSKQWNKVISACTEVWQTACKNLGWQIDDSVQDALHWK  
KVYLKAILRMKQLEDHEAFETSSLIGH SARVYALYYKDGLLCTGSDDL SAKLWDVSTGQC  
VYGIQHTCAAVKFDEQKLV TGSFDNTVACWEWSSGARTQHFRGHTGAVFSVDYNELDI  
LVSGSADFTVKVWALSAGTCLNTLTGHTEWTKVVLQKCKVKSLHSPGDYILLSADKYE  
IKIWIPIGREINCKCLKTL SVSEDRSICLQPRLHFDGKYIVCSSALGLYQWDFASYDILRV  
IKTPEIANLALLGFGDIFALLFDNRYLYIMDLRTESLISRWPLPEYRKSKRGSSFLAGEA  
SWLNGLDGHNDTGLVFATSMPDHSIHLVLWKEHG

>sp|Q969H0|FBXW7\_HUMAN F-box/WD repeat-containing protein 7 OS=Homo sapiens GN=FBXW7 PE=1  
SV=1

MNQELLSVGSKRRRTGGSLRGNPSSSQVDEEQMNRVVEEQQQQLRQEEEHTARNGEVV  
GVEPRPGGQND SQQGLEENNNRFISVDEDSSGNQEEQEEDEEHAGEQDEEDEEEEEMDQ  
ESDDFDQSDSSREDEHTHTNSVTNSSSIVDLPVHQLSSPFYTKTKMKRKL DHGSEVRS  
FSLGKKPKVSEYSTTGLVPCSATPTTFGDLRAANGQGQQRRRITSVQPPTGLQEWLKM  
FQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKELALYVLSFLEPKD  
LLQAAQTCRYWRILAEDNLLWREKCKE EGIDEPLHIKRRKVIKPGFIHSPWKSAYIRQHR  
IDTNWRRGELKSPKVLKGHDDHVITCLQFCGNRIVSGSDDNTLKVWSAVTGKCLRTL VGH  
TGGVWSSQMRDNIIISGSTDRTLKVWNAETGECIHTLYGHTSTVRCMHLHEKRVVSGSRD  
ATLRVWDIETGQCLHVLGMHVA AAVRCVQYDGRRVVSGAYDFMVKVWDPETETCLHTLQGH  
TNRVYSLQFDGIHV VSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD  
STVKIWDIKTGQCLQTLQGPNKHQSAVTCLQFNKNFVITSSDDGTVKLWDLKTGEFIRNL  
VTLESGSGGVVWRIRASNTKL VCAVGS RNGTEETKLLVLD FDFVDMK

>sp|P12318|FCG2A\_HUMAN Low affinity immunoglobulin gamma Fc region receptor II-a OS=Homo  
sapiens GN=FCGR2A PE=1 SV=4

MTMETQMSQNVCPRLWLLQPLTVLLLLASADSQAAAPKAVLKEPPWINVLQEDSVTL  
TCQGARSPESDSIQWFHNGNLIPHTHTQPSYRFKANNND SGEYTCQTGQTSLSDPVHLTVL  
SEWLVLQTPHLEFQEGETIMLRCHSWKDKPLVKVTFQNGKSQKFSHLDPTFSIPQANHS  
HSGDYHCTGNIGYTLFSSKPVTTITVQVPSMGSSSPMGIIIVAVVIATAVA AIAAVVALIY  
CRKKRISANSTDPVKAAQFEP PGRQMIAIRKRQLEETNNDYETADGGYMTLNPRAPTDDD  
KNIYLTLPNDHVNSNN

>sp|Q15485|FCN2\_HUMAN Ficolin-2 OS=Homo sapiens GN=FCN2 PE=1 SV=2

MELDRAVGV LG AATLLLSFLGMAWALQAADTCPEVKMVGLEGS DKLTI LRGCPLPGAPG  
PKGEAGTNGKRGERGPPGPPGKAGPPGPN GAPGEPQPCLTGPRTCKDLLDRGHFLSGWHT

IYLPDCRPLTVLCMDTDGGGWTVFQRRVDGSVDFYRDWATYKQGFSGRLGEFWLGNDNI  
HALTAQGTSELRVLDLVDFEDNYQFAKYRSFKVADEAEKYNLVLGAFVEGSAGDSLTFHNN  
QSFSTKDQDNDLNTGNCAVMFQGAWWYKNCHVSNLNGRYLRGTHGSFANGINWKS GKGYN  
YSYKVSEMKVRPA

>sp|Q7L513|FCRLA\_HUMAN Fc receptor-like A OS=Homo sapiens GN=FCRLA PE=1 SV=2

MKLGCVLMAWALYLSLGLVWVAQMLLAASFETLQCEGPVCTEESSCHTEDDLTDAREAGF  
QVKAYTFSEPFHLIVSYDWLILQGPAKPVFEGDLLVLRCAWQDWPLTQVTFYRDGSALG  
PPGPNREFSITVVQKADSGHYHCSGIFQSPGPGIPETASVVAITVQELFPAPILRAVPSA  
EPQAGSPMTLSCQTKLPLQRSARLLFSFYKDRIVQSRGLSSEFQIPTASEDHSGSYWC  
EAATEDNQVWKQSPQLEIRVQGASSAAPTLPNPAPQKSAAPGTAPEEAPGPLPPPPTPS  
SEDPGFSSPLGMPDPHLYHQMGLLLKHMVDVRVLLGHLLMELRELSGHRKPGTTKATAE

>sp|P16591|FER\_HUMAN Tyrosine-protein kinase Fer OS=Homo sapiens GN=FER PE=1 SV=2

MGFGSDLKNSHEAVLKLQDWELRLLETVKKFMALRIKSDKEYASTLQNLGNQVDKESTVQ  
MNYVSNVSKSWLLMIQQTEQLSRIMKTHAEDLNSGPLHRLTMMIKDKQQVKSYIGVHQQ  
IEAEMIKVTKTELEKLCSYRQLIKEMNSAKEKYKEALAKGKETEKAKERYDKATMKLHM  
LHNQYVLALKGAQLHQNQYYDITLPLLLDSLQKMQEEMIKALKGIFDEYSQITSLVTEEI  
VNVHKEIQMSVEQIDPSTEYNNFIDVHRTTAAKEQEIEFDTSLLEENENLQANEIMWNNL  
TAESLQVMLKTLAEELMQTQQMLLNKEEAVLELEKRIEESSETCEKKS DIVLLLSQKQAL  
EELKQSVQQLRCTEAKFSAQKELLEQKVQENDGKEPPPVVNYEEDARSVTSMERKERLSK  
FESIRHSIAGIIRSPKSALGSSALSDMISISEKPLAEQDWYHGAIPRIEAQELLKKQGDF  
LVRESHGKPGEYVLSVYSDGQRRHFIIQYVDNMYRFEGTGFSNIPQLIDHHTTKQVITK  
KSGVLLNPIPKDKKWILSHEDVILGELLGKGNFGEVYKGTLDKTSVAVKTCEDLPQE  
LKIKFLQEA KILKQYDHPNIVKLIGVCTQRQPVIIMELVSGGDFLTFLRRKKDELKQKQ  
LVKFSLDAAAGMLYLESKNCIHRDLAARNCLVGNNVLKISDFGMSRQEDGGVYSSSLGK  
QIPIKWTAPALNYGRYSSES DVWSFGILLWETFSLGVCPPYGMTNQQAREQVERGYRMS  
APQHCPEDISKIMMKWDYKPNRPKFSELQKELTIIKRKLT

>sp|P11487|FGF3\_HUMAN Fibroblast growth factor 3 OS=Homo sapiens GN=FGF3 PE=1 SV=1

MGLIWLLLLSLLEPGWPAAGPGARLRDAGGRGGVYEHGGAPRRRKLKATKYHLQLHP  
SGRVNGSLENSAYSILEITAVEVGIVAIRGLFSGRYLAMNKRGRLYASEHYSACEFVER  
IHELGYNTYASRLYRTVSSTPGARRQPSAERLWYVSVNGKGRPRRGFKTRRTQKSSLFLP  
RVLDHRDHEMVRQLQSGSLPRPPGKGVQPRRRRQKQSPDNLEPSHVQASRLGSQLEASAH

>sp|P08620|FGF4\_HUMAN Fibroblast growth factor 4 OS=Homo sapiens GN=FGF4 PE=1 SV=1

MSGPGTAAVALLPAVLLALLAPWAGRGGAAAPTAPNGTLEAELERRWESLVALSLARLPV  
AAQPKEAAVQSGAGDYLLGIKRLRRLYCNVGIGFHLQALPDGRIGGAHADTRDSLELSP  
VERGVVSIFGVASRFFVAMSSKGKLYGSPFFTDECTFKEILLPNYNAYESYKYPGMFIA  
LSKNGKTKKGNRVSPMTKVTHFLPRL

>sp|P55075|FGF8\_HUMAN Fibroblast growth factor 8 OS=Homo sapiens GN=FGF8 PE=1 SV=1

MGSPRSALSCLLLHLLVLCLQAQEGPGRGPALGRELASLFRAGREPQGVQQHVREQSLV  
TDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGDPFAKLIVETDTFGSRVRVRGA  
ETGLYICMNNKGKLIAKSNGKGKDCVFTEIVLENNYTALQNAKYGWYMAFTRKGRPRKG  
SKTRQHQRREVHFMKRLPRGHHTTEQSLRFEFLNYPFTRSLRGSQRTWAPEPR

>sp|P02679|FIBG\_HUMAN Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQT  
KVDKDLQSLEDILHQVENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLSRKMLEEIM

KYEASILTHDSSIRYLQEIYNSNNQKIVNLKEKVAQLEAQCQEPCKDTVQIHDTGKDCQ  
DIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLDGSVDFKKNWIQYKEG  
FGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY  
RLTYAYFAGGDAGDAFDGDFGDDPSDKFFTSHNGMQFSTWDNDNDFEGNCAEQDGSWG  
WMNKCHAGHLNGVYYQGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTI  
GEGQQHHLGGAKQVRPEHPAETEDSLYPEDDL

>sp|Q6PIW4|FIGL1\_HUMAN Fidgetin-like protein 1 OS=Homo sapiens GN=FIGL1 PE=1 SV=2

MQTSSSRSVHLSEWQKNYFAITSGICTGPKADAYRAQILRIQYAWANSEISQVCATKLFK  
KYAEKYSAIIDSDNVESGLNNAENILTLAGSQQTDSKQWQSGLSINNVFKMSSVQKMMQ  
AGKKFKDSLLEPALASVVIHKEATVFDLPKFSVCGSSQESDSLPSAHDRDRTQDFPESN  
RLKLLQNAQPPMVTNARTCPTFSAPVGESATAKFHVTPLFGNVKKENHSSAKENIGLNV  
FLSNQSCFPAACENPQRKSFYSGGTIDALSNPILNKACSKTEDNGPKEDSSLPTFKTAKE  
QLWVDQQKKYHQPQRASGSSYGGVKKSLGASRSRGILGKFVPPIPKQDGGEQNGGMQCKP  
YGAGPTEPAHPVDERLKNLEPKMIELIMNEIMDHGPPVNWEDIAAGVEFAKATIKEIVVWP  
MLRPDIFTGLRGPPEGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGEK  
MVRALFAVARCQQPAVIFIDEIDSLLSQRGDGEHESSRIKTEFLVQLDGATTSSDRIL  
VVGATNRPQEIDEAARRRLVKRLYIPLPEASARKQIVINLMSKEQCCLSEEEIEQIVQQS  
DAFSGADMTQLCREASLGPIRSLQTADIATITPDQVRPIAYIDFENAFRTVRPSVSPKDL  
ELYENWNKTFGCGK

>sp|P02751|FINC\_HUMAN Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

MLRGPGPGLLLLAVQCLGTAVPSTGASKSKRQAQMVQPQSPVAVSQSKPGCYDNGKHYQ  
INQQWERTYLGNALVCTCYGSGRGFNCEKPEAEETCFDKYTGNTRYVGDYERPKDSMI  
WDCTCIGAGRGRISCTIANRCHEGGQSYKIGDTWRRPHETGGYMLECVCLGNGKGEWTCK  
PIAEKCFDHAAGTSYVVGETWEKPYQGWMVVDCTCLGEGSGRITCTSRNRCNDQDTRTSY  
RIGDTWSKKDNRGNLLQCICTGNRGGEWKCEHRTSVQTTSSGSGPFTDVRAAVYQPQPHP  
QPPPYGHCVTDSGVVYSVMQWLKTQGNKQMLCTCLGNGVSCQETAVTQTYGNSNGEPC  
VLPFTYNGRTFYSCTEGRQDGHLCSTTSNYEQDQKYSFCTDHTVLVQTRGNSNGALC  
HFPFLYNNHNYTDCITSEGRDNRKWCCTTQNYDADQKFGFCPMAAHEEICTTNEGVMYRI  
GDQWDKQHDMMHMRCTCVGNRGGEWTCIAYSQLRDQCIVDDITYNVNDFHKRHEEGHM  
LNCTCFGQGRGRWKCDPVDQCQDSETGTFYQIGDSWEKYVHGVRVYQCYCYGRGIGEWHCQ  
PLQTYPSSSGPVEVFITETPSQPNSHPIQWNAPQPSHISKYILRWRPKNSVGRWKEATIP  
GHLNSYTIKGLKPGVVEGQLISIQYGHQEVTRFDFTTSTSTPVTSTNTVTGETTPFSP  
LVATSESVTEITASSFVVSWSASDTVSGFRVEYELSEEGDEPQYLDLPSTATSVNIPDL  
LPGRKYIVNVYQISEEDGEQSLILSTSQTAPDAPPDITVDQVDDTSIVVRWSRPQAPITG  
YRIVYSPSVEGSSTELNLPETANSVTLSDLQPGVQYNITIYAVEENQESTPVVIQETT  
TPRSDTVSPRDLQFVEVTDVKVTIMWTPPESAVTGYRVDVIPVNLPGEHGQRLPISRNT  
FAEVTGLSPGVTYFYKVFVAVSHGRESKPLTAQQTTKLDAPTNLQFVNETDSTVLVRWTPP  
RAQITGYRLTVGLTRRGQPRQYNVGPSVSKYPLRNLQPASEYTVSLVAIKGNQESPKATG  
VFTTLQPGSSIPPYNTEVTETTIVITWTPAPRIGFKLGVGPSQGEAPREVTSDSGSIVV  
SGLTPGVEYVYTIQVLRDQGERDAPIVNKVVTPLSPPTNLHLEANPDTGVLTVSWERSTT  
PDITGYRITTTPTNGQQGNSLEEVHADQSSCTFDNLSPGLEYNVSVYTVKDDKESVPIS  
DTIIPAVPPPTDLRFTNIGPDTMRVTWAPPPSIDLTNFLVRYSPVKNEEDVAELSISPSD  
NAVVLTNLLPGTEYVVSVSVEYQHESTPLRGRQKTGLDSPTGIDFSDITANSFTVHWIA  
PRATITGYRIRHHPEHFSGRPREDRVPHSRNSITLTNLTGTEYVVSIVALNGREESPLL

IGQQSTVSDVPRDLEVVAATPTSLIISWDAPAVTVRYRITYGETGGNSPVQEFTVPGSK  
STATISGLKPGVDYITITVYAVTGRGDPASSKPISINYRTEIDKPSQMQVTDVQDNSISV  
KWLPS SSPVTGYRVTTTPKNGPGPTKTKTAGPDQTEMTIEGLQPTVEYVVSVAQNPSGE  
SQPLVQTAVTNIDRPKGLAFTDVDVDSIKIAWESPQQQVSRYRVTYSSPEDGIHELFPAP  
DGEEDTAELQGLRPGSEYTVSVVALHDDMESQPLIGTQSTAIPAPTDLKFTQVTPTSLSA  
QWTPPNVQLTGYRVRVTPKEKTGPMKEINLAPDSSSVVVSGLMVATKYEVSVYALKDTLT  
SRPAQGVVTTLENVSPRRARVTDATETTITISWRKTETITGFQVDAVPANGQTPIQRT  
IKPDVRSYTTITGLQPGTDYKIYLYTLNDNARSSPVVIDASTAIDAPSNLRLATTNPSSL  
VSWQPPRARITGYIIKYEKPGSPPREVVPRPRPGVTEATITGLEPGTEYTIYVIALKNNQ  
KSEPLIGRKKTDLPQLVTLPHPNLHGPEILDVPSTVQKTPFVTHPGYDTGNGIQLPGTS  
GQQPSVGQQMIFEEHGFRRTPPTTATPIRHRPRPYPPNVGEEIQIGHIPREDVDYHLYP  
HGPGLNPNASTGQEALSQTTISWAPFQDTSEYIISCHPVGTDDEPLQFRVPGTSTSATLT  
GLTRGATYNVIVEALKDQQRHKVREEVTVGNSVNEGLNQPTDDSCFDPTYTVSHYAVGDE  
WERMSESGFKLLCQCLGFGSGHFRCDSSRWCHDNGVNYKIGEKWDRQGENGQMMSCCLG  
NGKGEFKCDPHEATCYDDGKTYHVGQWQKEYLGAICSCTCFGGQGRWRCNCRPPGGE  
SPEGTTGQSYNQYSQRYHQRTNTNVNCPICFMPLDVQADREDSRE

>sp|Q8IV48|ERI1\_HUMAN 3'-5' exoribonuclease 1 OS=Homo sapiens GN=ERI1 PE=1 SV=3

MEDPQSKEPAGEAVALALLESPPREGGEEPPRPSPEETQQCKFDGQETKGSKFITSSASD  
FSDPVYKEIAITNGCINRMSKEELRAKLSEFKLETRGVKDVLLKKRLKNYKKQKMLKES  
NFADSYDYICIIDFEATCEEENPPEFVHEIIIEFPVLLNTHLTLEIEDTFQQYVRPEINT  
QLSDFCISLTGITQDQVDRADTFPQVLKKVIDWMKLKELGTKYKYSLLTDGSDMSKFLN  
IQCQLSRLKYPPFAKKWINIRKSYGNFYKVPRSQTKLTIMLEKLGMDYDGRPHCGLDDSK  
NIARIAVRMLQDGCELRLINEKMHAGQLMSVSSSLPIEGTPPPQMPHFRK

>sp|Q86X53|ERIC1\_HUMAN Glutamate-rich protein 1 OS=Homo sapiens GN=ERIC1 PE=1 SV=1

MAAHRKHVFVEKVLQRLFPVPSPGQGKREPQTLAVQNPPKVTSEKVSQKHAEPPLTDTGS  
ETPTARRLYTASGPPEGYVPCWPESSCGSPENASSGDDTEDQDQPHDQPKRRRIRKHKSK  
KKFKNPNNVLIEQAELEKQQSLLQEKSQRQHTDGTTSKNKKRKLKKKQKIKRKAAGLA  
AKAAGVSFMYQPEDSSNEGEGVGEACEEDGVDTSSEEDPTLAGEEDVKDTREEDGADASEE  
DLTRARQEEGADASEEDPTPAGEEDVKDAREEDGVDTEEDLTRAGEEDGKDTREEDGAD  
ASEEDPTWAGEEEGADSGEEDGADASEEDDTITNEKAHSILNFLKSTQEMYFYDGVSRDA  
ASAALADAAEELDLRLASHMSLPSDVSILYHMKTLTLLQDTERLKHALEMPPEHCTMPPD  
HARVISAFFSYWITHILPEKSSD

>sp|P61579|ERK25\_HUMAN Endogenous retrovirus group K member 25 Rec protein OS=Homo sapiens  
GN=ERVK-25 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSAGVPNSSEETATIENG

>sp|Q96HE7|ERO1A\_HUMAN ERO1-like protein alpha OS=Homo sapiens GN=ERO1A PE=1 SV=2

MGRGWGFLFGLLGA VWLLSSGHGEEQPPETAARCFQCQVSGYLDCTCDVETIDRFNNYR  
LFPRLQKLLSEDFRYKYVNLKRPCPFWNDISQCGRRDCAVKPCQSDEVPDGIKSASYKY  
SEEANNLIECEQAERLGAVDESLSEETQKAVLQWTKHDDSSDNFCEADDIQSPEAEYVD  
LLLNPERYTGYKGPDAWKIWNVIYEENCFKPQTIKRPLNPLASGQGTSEENTFYSWLEGL  
CVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR  
LKNLYFLYLIELRALS KVLPPFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDE  
NSFFAGDKKEAHKLKEDFRLHFRNISRIMDCVGCFCRLWGLKLTQGLGTALKILFSEKL



IANMPESGPSYEFHLTRQEIVSLFNAFGRISTSVKELENFRNLLQNIH

>sp|B6SEH8|ERVV1\_HUMAN Endogenous retrovirus group V member 1 Env polyprotein OS=Homo sapiens GN=ERVV-1 PE=2 SV=1

MTEKFLFLYLSELLPMLLSQAQWNENSLVSFSKIIASGNHLSNCWICHNFITRSSSYQYI  
LVRNFSNLNLTFGSGIPEGQHKSVPLQVSLANSAHQVPCLDLTPPFNQSSKTSFYFYNCSS  
LNQTCPCPEGHCDRKNTSEEGFPSPTIHPMSFSPAGCHPNLTHWCPAQMNDRDKSPQ  
NRCAAWEKGELITWRVLYLLPKAHTVPTWPKSTVPLGGPLSPACNQTIPAGWKSQHLKWF  
DSHIPRWACTPPGYVFLCGPQKNKLPFDGSPKITYSTPPVANLYTCINNIQHTGECVGL  
LGPRGIGVTIYNTTQPRQKRALGLILAGMGAAIGMIAPWGGFTYHDVTLRNLRSRQIDNIA  
KSTRDSISKLKASIDSLANVVMNRLALDYLLAEQGGVCAVSKSCCIYVNNNGAIEEDI  
KKIYDEVTLWLNFGKGSAGSIWEAVKSALPSLTWVFPPLGPAALNSLLSPLWPLSL

>sp|B1AK53|ESPN\_HUMAN Espin OS=Homo sapiens GN=ESPN PE=1 SV=1

MALEQALQAARQGELDVLRSLHAAGLLGPSLRDPLDALPVHHAARAGKLHCLRFLVEEAA  
LPAAARARNGATPAHDASATGHLACLQWLLSQGGCRVQDKDMSGATVLHLAARFGHPEVV  
NWLHHGGGDPTAATDMGALPIHYAAAKGDFPSLRLLVEHYPEGVNAQTNGATPLYLAC  
QEGHLEVTQYLVQECGADPHARAHDGMTPLHAAQMGHSPVIVWLVSCTDVSLEQDKDG  
ATAMHFAASRGHTKVLWLLLHGGEISADLWGGTPLHDAEENGELECCQILVVNGAELDV  
RDRDGYTAADLSDFNGSHCTRYLRTVENLSVEHRVLSRDPASAELEAKQPDGSMSSPNTT  
VSVQPLNFDLSSPTSTLSNYDSCSSSHSSIKGQHPCCGLSSARAADIQSYMDMLNPELGL  
PRGTIGKPTPPPPPSFPPPPPPGTQLPPPPPGYPAPKPPVGPQAADIYMQTKNKLHV  
ETEALKKELSSCDGHDGLRRQDSSRKPRAFSKQPSTGDYYRQLGRCPGETLAARPGMAHS  
EEVRARQPARAGCPRLGPAARGSLGPSAPPQAALLPGNHVPNGCAADPKASRELPPPPP  
PPPPPLPEAASSPPAPPLPLESAGPGCGQRRSSSSTGSKSFNMMSPTGDNSELLAEIK  
AGKSLKPTPQSKGLTTVFSGIGQPAFQPDSPSPVSPALSPVRSPTPPAAGFQPLLNGSL  
VPVPPTTPAGVQLDVEALIPTHDEQGRPIPEWKRQVMVRKMLKMQEEEEQRRKEEEEE  
ARLASMPAWRRDLLRKLEEREQKRKEERQKQEELRREKEQSEKLRTLGYDESKLAPW  
QRQVILKKGDIKY

>sp|Q6UWW8|EST3\_HUMAN Carboxylesterase 3 OS=Homo sapiens GN=CES3 PE=1 SV=1

MERAVRVESGVLGVVCLLLACPATATGPEVAQPEVDTTLGRVRGRQVGKGTDRLVNVF  
LGIPFAQPPLGPDRFSAPHPAQWEGVRDASTAPPMCLQDVESMNSSRFVLNGKQQIFSV  
SEDCLVLNVYSPAIEVPAGSGRPVMVWHGGALITGAATSYDGSALAAYGDVVVVTVQYRL  
GVLGFFSTGDEHAPGNQGLDVVAALRWVQENIAPFGDLNCTVTFGGSAGGSIISGLVL  
SPVAAGLFHRAITQSGVITTPGIIDSHPWPLAQKIANLACSSSSPAEMVQCLQQKEGEE  
LVLSKKLKNITTYPLTVDGTVPKSPKELLKEKPFHSVPFLMGVNNHEFSWLIPRGWGLLD  
TMEQMSREDMLAISTPVLTSLDVPPPEMPTVIDEYLGNSDAQAKCAFQEFMGDFINV  
PTVSFSRYLRDSGSPVFFYEFQHRPSSFAKIKPAWVKADHGAEGAFVFGGPFLMDESSL  
AFPEATEEEKQLSLTMAAQWTHFARTGDPNSKALPPWPQFNQAEQYLEINPVPRAGQKFR  
EAWMQFWSETLPSKIQQWHQKQKNRKAQEDL

>sp|Q8N693|ESX1\_HUMAN Homeobox protein ESX1 OS=Homo sapiens GN=ESX1 PE=1 SV=3

MESLRGYTHSDIGYRSLAVGEDIEEVNDEKLTVTSLMARGGEDEENTRSKPEYGTAEANN  
VGTEGSVPSDDQDREGGGGHEPEQQQEPPPTKPEQQQEPPPLELKQEQQEPPQTTEG  
PQPAEGPQTAEGPQPPERKRRRTAFTQFQLQELNFFDESQYPDVVARERLAARLNLT  
DRVQVWFQNRRAKWKRNQVRMLRNTATADLAHPLDMFLGGAYYAAPALDPALCVHLVPQ  
LPRPPVLPVPPMPRPPMPVMPRPPPIAPMPPMAPVPPGSRMAPVPPGPRMAPVPPWPPM

APVPPWPPMAPVPTGPPMAPVPPGPPMARVPPGPPMARVPPGPPMAPLPPGPPMAPLPPG  
PPMAPLPPGPPMAPLPPRSHVPHTGLAPVHITWAPVINSYYACPF

>sp|Q9BZE7|EVG1\_HUMAN UPF0193 protein EVG1 OS=Homo sapiens GN=C22orf23 PE=1 SV=1

MASQKQMEVVTGKTGFRRRPKTITYTPGTCELLRVMMKESKLTNIQQRHIMDIMKRGDAL  
PLQCSPTSSQRLPSKQIASPIYLPPILAARPHLRPANMCQANGAYSREQFKPQATRDLE  
KEKQRLQNIFATGKDMEERKRKAPPARQKAPAPELDRFEELVKEIQERKEFLADMEALGQ  
GKQYRGIILAEISQKLREMEDIDHRRSEELRKGLATT

>sp|Q96KP1|EXOC2\_HUMAN Exocyst complex component 2 OS=Homo sapiens GN=EXOC2 PE=1 SV=1

MSRSRQPPLVTGISPNEGIPWTKVTIRGENLGTGPTDLIGLTICGHNCLLTAEWMSASKI  
VCRVGQAKNDKGDIIVTTKSGGRGTSTVSFKLLKPEKIGILDQSAVWVDEMNYDMRTDR  
NKGIPPLSLRPANPLGIEIEKSKFSQKDLEMLFHGMSADFTSENFSAAWYLIENHSNTSF  
EQLKMAVTNLKRQANKKSEGLAYVKGLSTFFEAQDALSAIHQKLEADGTEKVEGSMTQ  
KLENVNLRASNTADTLFQEVLGRDKADSTRNALNVLRFKFLFNLPLNIERNIQKGDYD  
VVINDYEKAKSLFGKTEVQVFKKYAEVETRIEALRELLDKLLETPSTLHDQKRYIRYL  
SDLHASGPAWQCIGAQHKWILQLMHSCKEGYVKDLKGNPGLHSPMLDLNDTRPSVLGH  
LSQTASLKRGSFQSGRDDTWRYKTPHRVAFVEKLTCLVLSQLPNFWKLWISYVNGSLFS  
ETAESGGQIERSKNVRQRQNDFFKMIQEVMSLSVLKTRGALLPLSIRDGEAKQYGGWEVK  
CELSGQWLAAHIQTVRLTHESLTALEIPNDLLQTIQDLILDLRVRCVMATLQHTAEEIKR  
LAEKEDWIVDNEGLTSLPCQFEQCIVCSLQSLKGVLECKPGEASVFQQPKTQEEVCQLSI  
NIMQVFIYCLEQLSTKPDADIDTHLSVDVSSPDLFGSIHEDFSLTSEQRLLIVLSNCCY  
LERHTFLNIAEHFEKHNFQGIEKITQVSMASLKELDQRLFENYIELKADPIVGSLEPGIY  
AGYFDWKDCLPPTGVRNYLKEALVNI IAVHAEVFTISKELVPRVLSKVIEAVSEELSRLM  
QCVSSFSKNGALQARLEICALRDTVAVYLTPESSSKQALEALQLSSGADKKLLEELL  
NKFSSMHLQLTCFQAASSTMMKT

>sp|O60645|EXOC3\_HUMAN Exocyst complex component 3 OS=Homo sapiens GN=EXOC3 PE=1 SV=2

MQCEDSTSFFTMMKETDREAVATAVQRVAGMLQRPDQLDKVEQYRRREARKKASVEARLKA  
AIQSQLDGVRTGLSQLHNALNDVKDIQQSLADVSKDWRQSINTIESLKDVKDAVVQHSQ  
AAAVENLKNIFSVEIVRETQDLIEQGALLQHRKLMDECSRDLGMYEQYRMDSGNTRD  
MTLIHGYFGSTQGLSDELAQQLWMVLQRSLVTVRRDPTLLVSVVRIIEREEKIDRRILDR  
KKQTGFVPPGRPKNWKEKMFTILERTVTTRIEGTQADTRESKMWLVRLHLEIRKYVLDD  
LIVAKNLMVQCFPPHYEIFKNLLNMYHQALSTRMQDLASEDLEANEIVSLTWTWVNTYTS  
TEMNRNVELAPEVDVGTLEPLSPHVVELLDTYMSTLTSNIIAWLRKALETDKKDWVKE  
TEPEADQDGGYQTTLPAIVFQMFQNLQVAAQISEDLKTKVLVLCLQQMNSFLSRYKDEA  
QLYKEEHLNRNQHPCYVQYIMAIINNCQTFKESIVSLKRKYLKNEVEEGVSPSQPSMDG  
ILDAIAKEGCSGLLEEVFLDLEQLNELMTKKWLLGSNAVDIICVTVEDYFNDFAKIKKP  
YKKRMTAEAHRRVVVEYLRAVMQKRISFRSPEERKEGAEMVREAEQLRFLFRKLASGFG  
EDVDGYCDTIVAAVEIKLTDPSLLYLEVSTLVSKYPDIRDDHIGALLAVRGDASRDMKQ  
TIMETLEQGAQASPSYVPLFKDIVVPSLNVAKLLK

>sp|Q5XKR9|F104B\_HUMAN Protein FAM104B OS=Homo sapiens GN=FAM104B PE=3 SV=1

MGGCPVRKRRRNGSKEGNHSTQPKRKNRPFIQDSQDTEFSWSDNERSSSRINIPERAS  
GPEGNLNQIVTEPDANFPQFLHEGLSKPVYVINWFMSFGPEIKLNTSQQGRNQAV

>sp|POC875|F228B\_HUMAN Protein FAM228B OS=Homo sapiens GN=FAM228B PE=2 SV=1

MKNVSDDLVTGTLPKLKSSKEWLEPKPLCFMEVLAKEDTEAAIQSILYKENSVIKELDK  
YLQHHAFNLNARRKEMLYKRWDCVADPLQKKIIEKVCCHKIKKRRQGELDGFLKHVNKK

GNAFIEHYDPKEYDPFYMSKKDPNFKVTIPPFHDPLKKAQYDKDNEKRTLLQCETGKIY  
SIKEFKEVEKVLHSRFPQISNSRHFITPNEWLKLPTRYIESEFCRRRRNKGSSFLEREP  
LCYQEGNNPSAKEAISEGYFSSLSLRNGRKTMRGLVSPSWSGYKHGLLQPQPGLKRS  
SRLSFLSGWDCGLPPCPADF

>sp|A6NCW3|F231B\_HUMAN Protein FAM231B OS=Homo sapiens GN=FAM231B PE=3 SV=1

MGCSKGLWKERPSAHTSECFTTACPVAFILLVWNSQSPAGLQSFCTGRHPSLSVRAQRA  
GTGASREEGTFWTECVGQERRLIHSGSSENESEQEDEGADLIPYTGLKADNRRKSSTWANE  
VEDRRPQSTPALNLTSPSHPPRPLITFLRSVIGIQIPPGLVAAGGTVA

>sp|Q16875|F263\_HUMAN 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 OS=Homo sapiens GN=PFKFB3 PE=1 SV=1

MPLELTQSRVQKIWVPVDHRPSLPRSCGPKLTNSPTVIVMVGLPARGKTYISKKLTRYLN  
WIGVPTKVFNVGEYRREAVKQYSSYNFFRPDNEEAMKVRKQCALAALRDVKSYLEKEGGQ  
IAVFDATNTTRERRHMILHFAKENDFKAFFIESVCDDPTTVASNIMEVKISSPDYKDCNS  
AEAMDDFMKRISCYEASYQPLDPDKCDRLSLIKVIDVGRRFLVNRVQDHIQSRIVYYLM  
NIHVQPRTIYLCRHGENEHLQGRIGGDSGLSSRGKFFASALSKFVEEQNLKDLRVWTSQ  
LKSTIQTAELRLPYEQWKALNEIDAGVCEELTYEEIRDTYPEEYALREQDKYYYRYPTG  
ESYQDLVQRLEPVIEMELERQENLVICHQAVLRCLLAYFLDKSAEMPYLKCPHTVLKL  
TPVAYGCRVESIYLNVESVCTHRERSEDAKKGPNNLMRRNSVTPLASPEPTKKPRINSFE  
EHVASTSAALPCLPPEVPTQLPGQNMKGSRSSADSSRKH

>sp|Q8N7N1|F86B1\_HUMAN Putative protein N-methyltransferase FAM86B1 OS=Homo sapiens GN=FAM86B1 PE=2 SV=2

MAPEENAGTELLLQGFERRFLAVRTLRSFPWQSLEAKLRDSSDSELLRDILQKTVRHPVC  
VKHPPSVKYAWCFLSELIKSSGGSVTLSTAIISHGTTGLVTWDAALYLAEWAIENPA  
AFINRTVLELGSAGLTGLAICKMCRPRAYIFSDPHSRVLEQLRGNVLLNGLSLEADITG  
NLDSPRVTVAQLDWDVAMVHQLSAFQPDVVIAADVLYCPEAIVSLVGVLQRLAACREHKR  
APEVYVAFTVRNPETCQLFTTELGRDGIRWEAEAHHDQKLFPHYHEMAMNLTL

>sp|A6NNJ1|F90A9\_HUMAN Putative protein FAM90A9P OS=Homo sapiens GN=FAM90A9P PE=5 SV=1

MMARRDPKSWAKRLVRAQTLQKQRRAPVGPRAPPPDEEDPRLKCKNCGAFGHTARSTRCP  
MKCWAALVPATLGKKEGKENLKPWKPRVEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTESSDHLRVASGMPVHTTSKRPRVDPVLADRSAAEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAADMPQPAVRHQGREPLLVKPHTSSPEGGCREV  
PQAASKTHGLLQAARPAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGAQRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
RQPPHSTPCLPTAQAQACTMSHHSAASHDGAQPLRVLFRRENGRWSSSLLAAPS FHSPEKP  
GTFLAQSPHVSEKSEAPCVRVPPSVLYEDLQVSSSSEDSDSDLE

>sp|POC7W9|F90AE\_HUMAN Putative protein FAM90A14P OS=Homo sapiens GN=FAM90A14P PE=5 SV=1

MMARRDPTSWAKRLVRAQTLQKQRRAPVGPRAPPPDEEDPRLKCKNCGAFGHTARSTRCP  
MKCWAALVPATLGKKEGKENLKPWKPRVEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTEPSDYLRVASGMPVHTTSKRPRLDVPLADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAADMPQPAVRHQGREPLLVKPHTSRPEGDCREV  
PQAASKTHGLLQAARPAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGAQRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
RQPPHSRCLPTAQAQACTMSHHPAASHDGAQPLRVLFRRENGRWSSSLLAAPS FHSPEKP  
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>sp|A6NIJ5|F90AK\_HUMAN Putative protein FAM90A20P OS=Homo sapiens GN=FAM90A20P PE=5 SV=1  
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MKCWKAALVPATLGKKEGKENLKPWKPGVEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTESSDYLRVARGPMPVHTTCKRPRMDPVLSGRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADIPRAVRHQVHETLLVVEPTHSSPEGSCREV  
PQAASKTHGLLQAVRTQAQDKRPVTSQPCPSAATHSLGLGSNLSFGSGAKRPAQAPIQA  
CLNFPKKPRLGPFQIPESTIQGGELGAPENLQPPPAATELGPSRSPQMGRRTPAQVPSVE  
RQPPHRRPCLPTAQAQCTMSHHPAASHDGAQPLRVLFRRENGRWSSSLLAAPS FHSPEKP  
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>sp|A8MXZ1|F90AN\_HUMAN Putative protein FAM90A23P OS=Homo sapiens GN=FAM90A23P PE=5 SV=1  
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MKCWKAALVPATLGKKEGKENLKPWKPRAEANPGPLNKDKGEKEERPRQQDPQRKALLHM  
FSGKPPEKPLPNGKGSTESSDYLRVASGPMPVHTTSKRPRLDPVLAADRSATEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAAADMPQPAVRHQGREPLLVKPHTSRPEGGCREV  
PQAASKTHGLLQAARQAQDKRPVTPQPCPPAATHSLGLGSNLSFGPGAKRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELG PSTSPQMGRRTPAQVPSVD  
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>sp|Q658Y4|F91A1\_HUMAN Protein FAM91A1 OS=Homo sapiens GN=FAM91A1 PE=1 SV=3  
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RRYYEELLKYSRDHMLYPYHLSDIMVKGLRITPFSYYTGIMEDIMNSEKSYDSLNPFTA  
ADCLRLLGIGRNQYIDLMNQCRSSKKFFRRKTARDLLPIKPVEIAIEAWVVQAGYITED  
DIKICTLPEKCAVDKIIDSQPQLSGSLDYNVVHSLYNKGFIYLDVPISSDDSCIAVPPLEG  
FVMNRVQG DYFETLLYKIFVSI DEHTNVAELANVLEIDL SLVKNVSMYCRLGFAHKKGQ  
VINLDQLHSSWKNVPSVNRKSTLDPQKMLLSWDGGESRSPVQEASSATD TDTNSQEDPA  
DTASVSSL SLSTGHTKRIAFLFDSTLTAFLMMGNLSPNLKSHAVTMFEVGKLSDESLSDF  
LIELEKVQSTGEGEAQRYFDHALTLRNTILFLRHNDLVAQTAQPDQPNYGFPLDLLRCE  
SLLGLDPATCSRVLNKNYTLVSMAPLTNEIRPVSSCTPQHIGPAIPEVSSVWFKLYIYH  
VTGQGPPSLLLSKGTRLRKLPDIFQSYDRLLITSWGHPGVVPTSNVLTMLNDALTHSAV  
LIQGHGLHGIGETVHVPPFDETELQGEFTRVNMGVHKALQILNRNVDLQHLCGYVTMLN  
ASSQLADRKLSDASDERGEPDLASGSDVNGSTESFEMVIEEATIDSATKQTSGATTEADW  
VPLELCFGIPLFSSSELNRKVCRKIAAHGLCRKESLQNLHSSRKLSLQVLNFVHSFQEGA  
SILDIHTEPSFSSLLSQSSCADMGVPLPAKNLIFKDGVLSEWSEGRSPSSLLIANLHLQ

>sp|Q7L5A8|FA2H\_HUMAN Fatty acid 2-hydroxylase OS=Homo sapiens GN=FA2H PE=1 SV=1  
MAPAPPPAASFSPSEVQRRLAAGACWVRRGARLYDLSSFVRHHPGGEQLLRARAGQDISA  
DLDGPPHRHSANARRWLEQYYYVGELRGEQQGSMENEPVALEETQKTDPA MEPRFKVVDWD  
KDLVDWRKPLLWQVGHLEGEYDEWVHQPVTRPIRLFHSDLIEGLSKTVWYSVP I I WVPLV  
LYLSWSYYRTFAQGNVRLFTSFTTEYTVAVPKSMFPGFLMLGTFLWSLIEYLIHRFLFHM  
KPPSDSYLIMLHFV MHGQHHKAPFDGSRLVFPPVPASLVIGVFYLCMQLILPEAVGGTV  
FAGLLGYVLYDMTHYYLHFGSPHKGSYLSLKAHHVKHHFAHQKSGFGISTKLWDYCFH  
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>sp|Q9NUQ9|FA49B\_HUMAN Protein FAM49B OS=Homo sapiens GN=FAM49B PE=1 SV=1  
MGNLLKVL TCTDLEQGNFFLDFENAQPTSEKEIYNQVNVVLKDAEGILEDLQSYRGAG  
HEIREAIQHPADEKLQEKA WGAVVPLVGKLKIFYEFSQRLEAALRGLLGALTSTPYSPTQ

HLEREQALAKQFAEILHFTLRFDELKMTNPAIQNDFSYYRRTL SRMRINNVP AEGENEVN  
NELANRMSLFYAEATPMLKTLSDATTKFVSENKNLP IENTTDCLSTMASVCRVMLETPEY  
RSRFTNEETVSFCLRMVGVII ILYDHVHPVGAFAKTSKIDMKGCIVLKDQPPNSVEGLL  
NALRYTTKHLNDETTSKQIKSMLQ

>sp|Q14320|FA50A\_HUMAN Protein FAM50A OS=Homo sapiens GN=FAM50A PE=1 SV=2

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAEL  
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SFTLEEEEGGEEEEEAAMYEEMEREEITTKRKLGNPDVDT SFLPDRDREEENRLR  
EELRQWEAKQEIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQFLQKALEILRKDFSE  
LRSAGVEQLMYIKEDLIIPHHSFYDFIVTKARGKSGPLNFVDVHDDVRLLSDATVEKDE  
SHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDKYTIR

>sp|POC7Q3|FA58B\_HUMAN Putative cyclin-related protein FAM58B OS=Homo sapiens GN=FAM58BP  
PE=5 SV=1

MEGMEDAGEEAGEDAGEDAREGAAAPAA RVHFRVARFIMEAGVKLGMSIPIATACTIYP  
KFFCETILDAFDPYLIAMSS IYLAGKVEEQPLWAHDIISVSNRYFNPSSEPLGLDSRLWE  
LRDSIVQRELLMLRVLRFQVSFQHPHKYLLYYLVSLKNWLNCHSWQRTPVAVTAWALLRD  
SYHGGLCLRFQAQHI AVVVLYLALQVYGV E VPAEVEAEKLWWQAFSDDLTKPIIDTIVSD  
LIQIYTIDTEIP

>sp|Q9BSJ6|FA64A\_HUMAN Protein FAM64A OS=Homo sapiens GN=FAM64A PE=1 SV=1

MASRWQNMGTSVRRRSLQHQEQLDSKELQPVVSHQETSVGALGSLCRQFQRRRLPLRAVN  
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RKRGAQK GSGSPTHSLSQKSTRLSGAAPAHSAADPWEKEHHRLSVRMGSHAHPLRRSRRE  
AAFRSPYSSTEPLCSPSESDSDLEPVGAGIQHLQKLSQELDEAIMAEERKQALSDRQGF I  
LKDVYASP

>sp|075844|FACE1\_HUMAN CAAX prenyl protease 1 homolog OS=Homo sapiens GN=ZMPSTE24 PE=1  
SV=2

MGMWASLDALWEMPAEKRIFGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPPELGQIMD  
SETFEKSRLYQLDKSTFSFWSGLYSETEGTLILLFGGIPYLWRLSGRFCGYAGFGPEYEI  
TQSLVFLLLATLFSALTGLPWSLYNTFVIEEKHGFNQQT LGFFMKDAIKKFVVTQCILLP  
VSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDKFTPLPEGKLKEEIEV  
MAKSIDFPLTKVYVVEGSKRSSHSNAYFYGF FKNKRIVLFDTLLEEYSVLNKDIQEDSGM  
EPRNEEGNSEEIKAKVKNNKQCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCF  
FLFAVLIGRKELFAAFGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADA  
FAKKLGKAKDLYSALIKLNKDNLGFPVSDWLFMSMWHYSHPPLLERLQALKTMKQH

>sp|Q14289|FAK2\_HUMAN Protein-tyrosine kinase 2-beta OS=Homo sapiens GN=PTK2B PE=1 SV=2

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>sp|Q5VT28|FAM27\_HUMAN Protein FAM27A/B/C OS=Homo sapiens GN=FAM27B PE=3 SV=1

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>sp|Q9NW38|FANCL\_HUMAN E3 ubiquitin-protein ligase FANCL OS=Homo sapiens GN=FANCL PE=1  
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>sp|Q8TC84|FANK1\_HUMAN Fibronectin type 3 and ankyrin repeat domains protein 1 OS=Homo  
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>sp|Q92636|FAN\_HUMAN Protein FAN OS=Homo sapiens GN=NSMAF PE=1 SV=2

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>sp|Q9BTP7|FAP24\_HUMAN Fanconi anemia core complex-associated protein 24 OS=Homo sapiens  
GN=FAAP24 PE=1 SV=2

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>sp|O94887|FARP2\_HUMAN FERM, RhoGEF and pleckstrin domain-containing protein 2 OS=Homo  
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AGNSYIKYRLSENSKEEDFKLALRLRTLQSNGIIMYTRANPCIILKIVDGKLWFQLDCGS

GP GILGISGRAVNDGSWHSVFLELNRFNFTSLSLDDSYVERRRAPLYFQTLSTESSIYFGA  
LVQADNIRSLTDTRVTQVLSGFQGC LDSVILN NNELPLQNKRSSFAEVVGLTELKLGCVL  
YPDACKRSPCQHGGSGCTGLPSGGYQCTCLSQFTGRNCESEITACFPNPCRNGGSCDPIGN  
TFICNCKAGLTGVTCEEDINECERECEENGSGCVNVFGSFLCNCTPGYVGQYCGLRPVVV  
PNIQAGHSYVGKEELIGIAVVLV FIFILVVL FIVFRKKVFRKNYSRNNITLVQDPATAAL  
LNKSN GIPFRNL RGS GDGRNVYQEVGPPQVPVRPMAYTPCFQSDSRSNLDKIVDGLGGEH  
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EVT CFAGSNKGSN SEVQSLSS FQSDSGDDNASIVTVIQLVNNVVD TIENEVSVM DQGQNY  
NRAYHWDTS DWM PGARLS D IEEV PNYENQDGGSAHQGSTRELES DY YLGGYDIDSEYPPP  
HEEEFLSQDQLPPPLPEDFPDQYEALPPSQPVSLASTLSPDCRRRPQFHPSQYLPPHPFP  
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>sp|Q6V0I7|FAT4\_HUMAN Protocadherin Fat 4 OS=Homo sapiens GN=FAT4 PE=1 SV=2

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VRVLVRDLNDNAPVFPDPSIVVTFKEDSSSGRQVILDTATDS DIGSNGVDHRSYRIIRGN  
EAGRFRLDITLNP SGEGAFLHLVSKGGLDREVTPQYQLLVEVEDKGEPKRRGYLQVNVTV  
QDINDNPPVFGSSHYQAGVPEDAVVGSSVLQVAAADAEGTNADIRYRLQDEGTPFQMDP  
ETGLITVREPLD FEARRQYSLTVQAMDRGVPSLTGRAEALIQLLDVNDNDPVVKFRYFPA  
TSRYASVDENAQVGTV VALLTVTDADSPAANGNISVQILGGNEQRHFEVQSSKVPNLSLI  
KVASALDRERIPSYNLTVSVSDNYGAPGAAVQARSSVASLVIFVNDINDHPPVFSQQVY  
RVNLSEEAPPGSYVSGISATDGD SGLNANL RYSIVSGNGLGWFHISEHSGLVTTGSSGGL  
DRELASQIVLNISARDQGVHPKVSYAQLVVTLLDVNDEKPVFSQPEGYDVS VVENAPTGT  
ELLMLRATDGD LGDNGTVRFSLQEAETDRRSFRLDPVSGRLSTISSLDREEQAFYSLVLV  
ATDLGSPPQSSMARINVSLLDINDNSPVFYPVQYFAHIKENEPGGSYITTVSATDPDLGT  
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ITVLDTQDNPPVFSQVAYSFVV FENVALGYHGVSVSASTMDLNSNISYLITTDGQKGMFA  
INQVTGQLTTANVIDREEQSFYQLKVVASGGTVTGD TMVNI TVKDLNDNSPHFLQAIESV  
NVVENWQAGHSIFQAKAVDPDEGVNGMVLYSLKQNPKNLFAINEKNGTISLLGPLDVHAG  
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SATVNVTVILEDVNDNRPLFNSTNYTFYFEEEQRAGSFVGKVS AVDKDFGPNGEVRYSE  
MVQPDFELHAISGEITNTHQFDRESLMRRRGTA VFSFTV IATDQGIPQLKDQATVHVYM  
KDINDNAPKFLKDFYQATISESAANLTQVL RVSASDVDEGNGLIHYSIIKGNEERQFAI  
DSTSGQVTLIGKLDYEATPAYSLVIQAVDSGTIPLNSTCTLNIDILDENDNTPSFPKSTL  
FVDVLENMRIGELVSSVTATDS DSGDNADLYYSITGTNNHGTF SISPNTGSIFLAKKLD  
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GEIEYEIINGD TDFIVDRYSGDLRVASALVPSQLIYNLIVSATDLGPERRKSTTELTII  
LQGLDGPVFTQPKYITILKEGEPIGTNVISIEAASPRGSEAPVEYYIVSVRCEEKTVGRL  
FTIGRHTGIIQTAAILDREQGACLYLV DVYAI EKSTAFPRTQRAEVEITLQDINDNPPVF  
PTDMLDLTVEENIGD GSKIMQLTAMDADEGANALVYTYTII SGADDSFRIDPESGDLIATR  
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LLDVNDNPPTFLSPKLYIPENTPIDTVVFKAQATDPDSGPNSYIEYTLNPLGNKFSIG  
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DNPPRFQHHPYVTHIPSTPLPGSFVFAVTVTDADIGPNSELHYSLSGRNSEKFHIDPLRG  
AIMAAGPLNGASEVTFSVHVKGGSFPKTDSTTVTVRFVNKADFPKVRAKEQTFMFPENQ  
PVSSLVTITGSSLRGEPMSYIIASGNLGNTFQIDQLTGQVSI SQPLDFEKIQKYVVWIE  
ARDGGFPFPSSYEKL DITVLDVNDNAIFKEDPFI SEILENLSPRKILTVSAMDKDSGPN  
GQLDYEIVNGNMENSFSINHATGEIRSVRPLDREKVS HYVLTIKSSDKGSPSQSTS VKVM  
INILDENDNAPRFSQIFSAHPENSPLGYTVTRVTTSD EDIGINAISRYSIMDASLPFTI  
NPSTGDIVISRPLNREDTDYRIRVSAHDSGWTVSTDVTIFVTDINDNAPRFSRTSYLD  
CPELTEIGSKVTQVFATDPDEGSGNQVFYFIKSQSEYFRINATTGEIFNKQILKYQNVG  
FSNVNINRHSFIVTSSDRGKPSL ISETTVTINIVDSNDNAPQLKSKYFTPVTKNVKVGT  
KLIRVTAIDDKDFGLNSEVEYFISNDNHLGKFKLDNDTGWISVASSLISDLNQNFITVT  
AKDKGNPPLSSQATVHITVTEENYHTPEFSQSHMSATIPESH SIGSIVRTVSARDRDAAM  
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TVNVIDVNDNSPVFLSDDYFPTVLENAPSGTTV IHLNATDADSGTNAVIA YTVQSSDS DL  
FVIDPNTGVITTTQGFLDFETKQSYHLTVKAFNPDEERCSFATVNIQLKGTNEYVPRFVS  
KLYYFEISEAAPKGTIVGEVFASDRDLGTDGEVHYLIFGNSRKKGFQINKKTGQIYVSGI  
LDREKEERVSLKVLAKNFGSIRGADIDEVTNVNTVLDANDPPIFTLNIYSVQISEGVPIG  
THVTFVSAFSDSIPSWSRFSYFIGSGNENGAFSINPQTGQITVTAELDRETLPIYNLSV  
LAVDSGTPSATGSASLLVTLEDINDNGPMLTVSEGEVMENKRPGLVMTLQSTD PDLPPN  
QGPFTYYLLSTGPATSYFSLSTAGVLSTTREIDREQIADFYLSVVT KDSGVPQMSSTGTV  
HITVIDQNDNPSQSRTVEIFVNYYGNLFPGGILGSVKPQDPDVLDSFHCSLTSGVTS LFS  
IPGGTCDLNSQPRSTDGTFDLTVLSNDGVHSTVTSNIRVFFAGFSNATVDNSILLRLGVP  
TVKDFLTNHYLHFLRIASSQLTGLGTAVQLYSAYEENNRTFLAAVKRNHNQYVNP SGVA  
TFFESIKEILLRQSGVKVESVDHDS CVHGPCQNGGSC LRLAVSSVLKSRESLPV IIVAN  
EPLQPFLCKCLPGYAGSWCEIDIDECLPSPCHSGGTCHNLVGGFSCSCP DGFTGRACERD  
INECLQSPCKNGAICQNFPGSFNCVCKTGYTGKMCESVNYCECNPCFN GGSCQSGVDSY  
YCHCPFGVFGKHCELSYGFEELSYMEFPSLDPNNNYIYVKFATIKSHALLLYNDNQTG  
DRAEFLALEIAEERLRFSYNL GSGTYKLTTMKKVS DGHFHTVIARRAGMAASLTV DSCSE  
NQEPGYCTVSNVAVSDDWTL DVQPNRVTVGGIRSL EPI LQRRGHVESHD FVGCIMEFAVN  
GRPLEPSQALAAQGILDQCPRLEGACTRSPCQHGGTCMDYWSWQQCHCKEGLTGKYCEKS  
VTPDTALSLEGKGRLDYHMSQNEKREYLLRQSLRGAMLEPFGVNSLEV KFRTRSENGVLI  
HIQESSNYTTVKIKNGKVYFTSDAGIAGKVERNIPEVYVADGHWHTFLIGKNGTATVLSV  
DRIYNRDI IHPTQDFGGLDVL TISLGGIPPNQAHRDAQTAGFDGCIASMWYGESLPFSG  
KHSLASISKTDPSVKIGCRGPNICASNPCWGDL LCINQWYAYRCVPPGDCASHPCQNGGS  
CEPGLHSGFTCSCPDSHTGRTCEMVVACLGVLC PQGKVCKAGSPAGHVCVLSQGPEEISL

PLWAVPAIVGSCATVLALLVLSLILCNQCRGKKAKNPKEEKKPKEKKKKGSENVAFDDPD  
NIPPYGDDMTVRKQPEGNPKPDI IERENPYLIYDETDIPHNSSETIPSAPLASPEQEIEHY  
DIDNASSIAPSDADI IQHYKQFRSHTPKFSIQRHSPLGFARQSPMPLGASSLTYPQSYGQ  
GLRTSSLSHSACPTPNPLSRHSPAPFSKSSTFYRNSPARELHLPIRDGNTLEMHGDTCP  
GIFNYATRLGRRSKSPQAMASHGSRPGSRLKQPIGQIPLESSPPVGLSIEEVERLNTPRP  
RNPSICSADHGRSSSEEDCRRPLSRTRNPADGIPAPESSSDSDSHESFTCSEMEYDREKP  
MVYTSRMPKLSQVNESDADDEDNYGARLKPRRYHGRRAEGGPVGTQAAAPGTADNTLPMK  
LGQQAGTFNWDNLLNWGPFGHYVDVFKDLASLPEKAAANEEGKAGTTKPVPKDGAEQY  
V

>sp|P31995|FCG2C\_HUMAN Low affinity immunoglobulin gamma Fc region receptor II-c OS=Homo sapiens GN=FCGR2C PE=1 SV=1

MGILSFLPVLATESDWADCKSPQPWGHMLLWTAVLFLAPVAGTPAAPPKAVLKLEPQWIN  
VLQEDSVTLTCRGTHSPESDSIQWFHNGNLIPTHTQPSYRFKANNNDGSEYTCQTGGTSL  
SDPVHLTVLSEWLVLTQPHLEFQEGETIVLRCHSWKDKPLVKVTFQNGKSKKFSRSDPN  
FSIPQANHSHSGDYHCTGNIGYTLSSKPVTTITVQAPSSSPMGIIVAVVTGIAVAIAVAA  
VVALIYCRKKRISANSTDPVKAQFEPPGRQMIAIRKRQPEETNNDYETADGGYMTLNPR  
APTDDDKNIYLTLPNDHVNNSN

>sp|P08637|FCG3A\_HUMAN Low affinity immunoglobulin gamma Fc region receptor III-A OS=Homo sapiens GN=FCGR3A PE=1 SV=2

MWQLLLPTALLLVLSAGMRTELDPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQW  
FHNESLISSQASSYFIDAATVDDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRVFKE  
EDPIHLRCHSWKNTALHKVTYLQNGKGRKYFHHNSDFYIPKATLKDSGSYFCRGLFGSKN  
VSSETVNITITQGLAVSTISSFFPPGYQVSFCLVMVLLFAVDTLGLYFSVKTNIRSSTRDW  
KDHKFKWRKDPQDK

>sp|Q96P31|FCRL3\_HUMAN Fc receptor-like protein 3 OS=Homo sapiens GN=FCRL3 PE=1 SV=1

MLLWLLLLILTPGREQSGVAPKAVLLNPPWSTAFKGEKVALICSSISHSLAQGDTYWH  
DEKLLKIKHDKIQITEPGNYQCKTRGSSLSDAVHVEFSPDWLILQALHPVFEGDNVILRC  
QGKDNKNTHQKVYYKDGKQLPNSYNLEKITVNSVSRDNSKYHCTAYRKFYILDIEVTSKP  
LNIQVQELFLHPVLASSSTPIEGSPMTLTCETQLSPQRPDVQLQFSLFRDSQTLGLGWS  
RSPRLQIPAMWTEDSGSYWCEVETVTHSIKKRSLRSQIRVQRVPVSNVLEIRPTGGQLI  
EGENMVLICSVAGSGTVTFSWHKEGRVRSLSGRKTQRSLLAELHVLTVKESDAGRYCAA  
DNVHSPILSTWIRVTVRIPVSHPLVTFRAPRAHTVVGDLLELHCESLRGSPPILYRFYHE  
DVTLGNSSAPSGGASFNLSTAEHSGNYSCDADNGLGAQHSHGVSRLVTPVSRPVTL  
RAPGAQAVVGDLLELHCESLRGSFPILYWFYHEDDTLGNISAHSGGASFNLSTTEHSG  
NYSCEADNGLGAQHSKVVTNLNVTGTSRNTGLTAAGITGLVLSILVLAALLHYARAR  
RKPGGLSATGTSSHSPSECQEPSSSRPSRIDPQEPHSTKPLAPMELEPMYSNVNPGDSNP  
IYSQIWSIQHTKENSANCPMMHQEHEELTVLYSELKKTHTPDDSAGEASSRGRAHEEDDEE  
NYENVPRVLLASDH

>sp|Q6P4F2|FDX2\_HUMAN Ferredoxin-2, mitochondrial OS=Homo sapiens GN=FDX2 PE=1 SV=1

MAASMARGGV SARVLLQAARGTWWNRPGGTSGSGEGVALGTRKFQATGSRPAGEEDAGG  
PERPGDVVNVFVDRSGQRIPVSGRVGDNVLHLAQRHGVDLEGACEASLACSTCHVYVSE  
DHLDLLPPPEEREDDMLDAPLLQENSRLGCQIVLTPELEGAFTLPKITRNFYVDGHVP  
KPH

>sp|Q96M78|FEAS2\_HUMAN Putative uncharacterized protein encoded by FER1L6-AS2 OS=Homo sapiens GN=FER1L6-AS2 PE=2 SV=2

MSQVGRVRSSHVFESVCLDAEVRVVLVALDHAGLHTLSSALNESLRPIHREELHLLHFPN  
SPEENLRKRPAEPPSPQIHGGAPHLPWLCVEKLDLLPENHAVFLQERTAQLFEQSFFFSRS  
PAHSISPLLQFRWGHCP

>sp|Q9NPD3|EXOS4\_HUMAN Exosome complex component RRP41 OS=Homo sapiens GN=EXOSC4 PE=1 SV=3

MAGLELLSDQGYRVDGRRAGELRKIQARMGVFAQADGSAYIEQGNTKALAVVYGPHEIRG  
SRARALPDRALVNCQYSSATFSTGERKRRPHGDRKSCEMGLQLRQTFEAAILTQLHPRSQ  
IDIYVQVLQADGGTYAACVNAATLAVLDAGIPMRDFVCACSAGFVDGTALADLSHVEEAA  
GGPQLALALLPASGGIALLEMDARLHEDHLERVLAAAQAARDVHTLLDRVVRQHVREAS  
ILLGD

>sp|Q06265|EXOS9\_HUMAN Exosome complex component RRP45 OS=Homo sapiens GN=EXOSC9 PE=1 SV=3

MKETPLSNCERRFLRAIEKKRLDGRQTYDYRNIRISFGTDYGCCIVELGKTRVLGQVS  
CELVSPKLNRRATEGILFFNLELSQMAAPAFEPGRQSDLLVKNLRLMERCLRNKCIDTES  
LCVAGEKVVWQIRVDLHLLNHDGNIIDAASIAAIVALCHFRPDVSVQGDEVTLTYTPEER  
DPVPLSIHHMPICVSFAFFQQGTLYLLVDPNEREERVMDGLLVIAMNKHREICTIQSSGGI  
MLLKDQVLRCSKIAGVKVAEITELILKALENDQKVRKEGGKFGFAESIANQRITAFKMEK  
APIDTSDVEEKAEELIAEAEPSEVVSTPVLWTPGTAQIGEGVENSWGDELEDSEKEDDEG  
GGDQAIILDGIKMDTGVEVSDIGSQDAPIILSDSEEEEMIILEPDKNPKKIRTQTTSKQ  
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>sp|Q5T9C2|F102A\_HUMAN Protein FAM102A OS=Homo sapiens GN=FAM102A PE=1 SV=2

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KRFTFVCKMSANPATGLDPCVFRVSVRKELKGGKAYSKLGFADLNLAEFAGSGSTVRCC  
LLEGYDTKNTRQDNSILKVTIGMFLSGDPCFKTPSTAKSISIPGQDSSLQLTCKGGGT  
SSGGSSTNSLTGSRPPKARPTILSSGLPEEPDQNLSSPEEVFHSRNSRYASQQSKIS  
GYSTEHSRSSLSDLTHRRNTSTSSASGGLGMTVEGPEGSEREHRPPEKPPRPPRPLHL  
SDRSFRKKDSVESHPWTWDDTRIDADAIVEKIVSQDFTDGSNTEDSNLRLFVSRDGSA  
TLSGIQLATRVSSEGVYEPVVIESH

>sp|Q6ZTI6|F101A\_HUMAN Filamin-interacting protein FAM101A OS=Homo sapiens GN=FAM101A PE=1 SV=3

MVGHLHLQGMEDSLKEQGREGLLDSPDGLPPSPSPSPFYSLAPGILDARAGGAGASSE  
PPGPSEARAPPSQLPNPPASEMRPMLPVFFGESIKVNPEPTHEIRCNSEVKYASEKHFQ  
DKVFYAPVPTVTAYSETIVAAPNCTWRNYRSQTLLEPRPRALRFRSTTIIFPKHARSTFR  
TTLHCSLGRPSRWFASVQLQLCQDPAPSLGATL

>sp|Q8TC76|F110B\_HUMAN Protein FAM110B OS=Homo sapiens GN=FAM110B PE=1 SV=1

MPTETLQTGSMVKPVSPAGTFTSAVPLRILNKGPDYFRRQAEPNPKRLSAVERLEADKAK  
YVKSQEVINAKQEPVKPAVLAKPPVCPAAKRALGSPTLKVFNGHAKTESGVQRENKLEI  
LKNIINSSEGSSSGHSHSSNDIRKVTSVKPLKAIPCSSAPPLPPKPKIAAIASMSPE  
ADPVEPACGVSRRLSLQRSKSDLSDRYFRVDADVERFFNYCGLDPEELENLGMENFARAN  
SDIISLNRFSASMISSDCEQSQSDNSDLRNDDSANRVPYGISAIERNARIIKWLYSIKQ  
ARESQQVSHV

>sp|Q6UXB0|F131A\_HUMAN Protein FAM131A OS=Homo sapiens GN=FAM131A PE=2 SV=1

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CSLAWSFTRLLHPPLSPGISQVVKDHVTKPTAMAQGRVAHLIEWKGWSKPSDSPAALSA  
FSSYSDLSEGEQEARFAAGVAEQFAIAEAKLRAWSSVDGEDSTDDSYDEDFAGGMDTMA  
GQLPLGPHLQDLFTGHRFSRPVRQGSVEPESDCSQTVSPDTLCSSSLCSLEDGLLGSPARL  
ASQLLGDELLAKLPPSRESAFRSLGPLEAQDSLINSPLTESCLSPAEEEEPAPCKDCQPL  
CPPLTGSWERQRQASDLASSGVVSLDEDEAEPEEQ

>sp|Q8N9E0|F133A\_HUMAN Protein FAM133A OS=Homo sapiens GN=FAM133A PE=1 SV=1

MGKRDNRVAYMNPIMARWRGTPQSVGPTIQDYLNRPRTWEEVKKQLENKKTGSKALAE  
FEEKMNENWKKELEKSREKLLSGNESSKKRERKKRKKKSCRSSSSSSSSSSSSSSSDS  
EDEKKKGKRRKKKNRSYKSSQSTHESESESKESVKKKKKSKDETEKEKDVRSLSKKR  
KKSYPDDKPLSSESSSESDEYEDVQAKKKRRCEEREQAKEKVKKKKKKQHKKHSHKKKKK  
SGSSHKSR

>sp|Q9H6L5|F134B\_HUMAN Reticulophagy receptor FAM134B OS=Homo sapiens GN=FAM134B PE=1 SV=1

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AGRAAAAVTWLLGEPVLWLGCRADELLSWKRPLRSLLGFAANLLFWFLALTPWRVYHLI  
SVMILGRVIMQIIKDMVLSRTRGAQLWRSLSSEWEVINSKPDERPRLSHCIAESWMNFSI  
FLQEMSLFKQSPGKFCLLVCSVCTFFTILGSYIPGVILSYLLLLCAFLCPLFKCNDIGQ  
KIYSKIKSVLLKLDFGIGEYINQKKRERSEADKEKSHKDDSELDFSALCPKISLTVAAKE  
LSVSDTDVSEVSWTDNGTFNLSEGYPQTDTSDDLDRPSEEVFSRDLSDFPSLENGMTN  
DEDELSLGLPTELKRKKEQLDSGHRPSKETQSAAGLTPLNSDQTFHLSNLAGDVITAA  
VTAAIKDQLEGVQQAALSQAAPIPEEDTDTEEGDDFELLDQSELQIESELGLTQDQEA  
QQNKKSSGFLSNLLGGH

>sp|Q9UHL3|F153A\_HUMAN Protein FAM153A OS=Homo sapiens GN=FAM153A PE=2 SV=2

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LSETLPGSVKKRVCFPSEDHLEEFIAEHLPEASNQSLTVAHADAGTQTNGDLEDLEE  
PGQTVSEEATEVHTMEGDPDTLAEFLIRDVLQELSSYNGEEDPEEVKTSLGVPQRGDLE  
DLEEHVPGQTVSEATGVHMMQVDPATLAKSDLEDLEEHVPEQTVSEATGVHMMQVDP  
TLAKQLEDSTITGSHQMSASPSSAPAEATEKTKVEEEVKTRKPKKKTRKPSKKS  
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>sp|C9JC47|F157A\_HUMAN Putative protein FAM157A OS=Homo sapiens GN=FAM157A PE=3 SV=1

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KPSEDIYKNWQQQQQQQQQQQQQLDLLFHQRIQISLWPRKQKRRKTEQHSHPFVKKA  
FRFSAGSGCRPSSNKMLRSMGGGQRPTGLGSEFFRLHDLHLLAFAMKRIWIHRRGE  
ATARPRAPEHPAPPATAVRGRDAASQNLKRRPGSGTDGLRLQGAEPSRLLR  
TYAGGAVIPTGTERAQPPPPQDPLGRRRWLSRNTWGPWPGTTPPSPQLLRNDW  
GSCGMVPEAARGKVFQDSQEGAHIRRETVSKSVCAEPWRHQRARDPAPT  
NFPLRCQKQKGASASSGQHEGRVNLVFFIGSPTVIAVPDLQCPTKYSGMLY

>sp|POCG43|F157C\_HUMAN Putative protein FAM157C OS=Homo sapiens GN=FAM157C PE=3 SV=1

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KPSEDIYKNWRRQQQQQQQQQQQQQLDLLFHQRIQISLWPRKQKRRKTEQHS  
HSFVKKAFRFSASPGCRPSSNKMLRSMGGGQRPTGLGSEFFRLHDLHLLAFPTKCI  
WIHRRGEATARPRAPEHPAPPATAVRGRDAASQNLKRRPGSGTDGLRLQGAEPSRLLR  
TYAGGAVIP

TGTPERAQPPPPQDLLGRRRWLSRNTWGPWPGTTQPPSPQLLRNDWGSCGMVPEAARGK  
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>sp|Q6UWF9|F180A\_HUMAN Protein FAM180A OS=Homo sapiens GN=FAM180A PE=2 SV=1  
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LLAELEISPDQLISIKDEELASLRKASDFRTVCNNVIPKSIPDIRRLSASLSSHPGILKK  
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>sp|A6NEQ2|F181B\_HUMAN Protein FAM181B OS=Homo sapiens GN=FAM181B PE=2 SV=1  
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EATRDLLSFIDSASSNIKLALDKPGKSKRKVNHRKYLQKQIKRCSGLMGAAPGPPSPSA  
ADTPAKRPLAAPSAPTVAAPAHGKAAPRREASQAAAAASLQSRSLAALFDSL RHVPGGAE  
PAGGEVAAPAAGLGAGTGGAGGDVAGPAGATAIPGARKVPLRARNLPPSFFTEPSRAGG  
GGCGSPGPDVSLGDLEKGAEAVEFFELLGPDYGAGTEAAVLLAAEPLDVFPAGASVLRGP  
PELEPGLFEPPPAVGNLLYPEPWSVPGCSPTKKSPLTAPRGGLTLNEPLSPLYAAADS  
PGGEDGRGHLASFAPFFPDICALPPPPPHQVSYDYSAGYSRTAYSSLWRSDGVWEGAPGE  
EGAHRD

>sp|Q5T319|F182B\_HUMAN Protein FAM182B OS=Homo sapiens GN=FAM182B PE=2 SV=1  
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WQKSVHKL RKVSATSSIAVYPCPGQSSGGAESPAPGPGLAGWSHL CGAALAEVQAAPVSQ  
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>sp|Q9ULE4|F184B\_HUMAN Protein FAM184B OS=Homo sapiens GN=FAM184B PE=2 SV=3  
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ASMEALREAHQEELQNAVAETKARLLQEQGCAEEEEALLQRIQALESAL ELQKRLTEEALA  
ESASCRLETKERELRVEAEHAERVLTLSREMLELKADYERRLQHLSHEATPQGRLPQES  
PETKSEPGQGPMEQEVLLLEVQRLRVENQQLSKDYARKAEELQATYERENEAIRQAMQQSV  
SQALWQWQEKESDLRKNFQVQESALQAQVRKLEGDLEHRGRKISDLKKYAQKLKERIQDL  
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KKHLKDQLVKRLEDLVKKHTVEIKSVRSSVEAERKKLQREVEAQLEEVRRKKSEKEIKQLE  
EEKAALNVKLQNSLLEVLRL EEFIQQNKTRPTGAEE SPQELGRQHCSIETQDPCLKLDE  
TSRGE EYQDKLAAEEGTSSDEEERTKVLLKEGSDPQPPLGSLLEKTSKIQRLEEDWQS  
QKAKLQAQVSQMMALEQCTS NYREDLQALKQLSDLEREKLQRELQETTQONHAMKAQLE  
ASHQRALRMLEKARHQELKATEERLKKESSHSLQIQHQTHRELQALEEKARQELQEERE  
RMQAQQALLLES LRQELSEQQAACSGHQKDLEALQAE LRALGRQQASSQCPGDSKDHI IA  
TEERGGPGQAGSPPGAAGQGS GEGCGLWEENAQLQDAVRRLRAEVEQHQQEAQKL RDQRR  
FLEETQQAQRAREVETLRQ EHRKEMQAMVADFSSAQAQLQARLA ALEAELKDSGEKPGKG  
ASRPEDLQLIGRLQTRLKEREDIKQLTEERRFHYYA AFPSAMSHRNRSFNFNHPGYLTP  
SMKKKKVEDVPSRVSVPNLASYAKNFLSGDLSSRINAPPIT TSPSLDPSPSCGRTYKPN  
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>sp|A6NE01|F186A\_HUMAN Protein FAM186A OS=Homo sapiens GN=FAM186A PE=2 SV=3  
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EIREKTLANILAWLEEWNVDLSEMTLMDVDEHHHWIAQMELLPDTLKA IENNVKILSRFS  
TSFLDEKKKQKKKILSRGTLWKS WKERV IKRPSTARALRPDQMISDQLATNTKVSEIQGM



LQELIGTTFSTLENNAIKYISSTIVNLSTALSMLNDELKCVNFQSSTVYAHETSEAEKE  
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SGQKVSEAKPSQYYELQVLKKKRKEMKSFSEDKSKSPTEAKRKHLSTETKSQGGKSGTS  
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QALGISLTPQQAQAQGITLTPQQAQALGVPITPVNAWVSAVTLTSEQTHALESPMNLEQA  
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VPFTTKKFQMSEVSDTSEETQILRDTFAIESFRTFQSHFTKYRTPVYQTPYTDERALLTL  
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YRLIQHARNNIMKRLKAIQNTGKGYEARNLHMLSRLLDDYGKKVMQVWTEKQKSLGQKRN  
QCLKKMIHVFNLKKIHELNLSPQIPLIIEEKQIPASTTFVQKPFLLMEEDRTSDICK  
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SLQSRVKKIPK

>sp|A6NFU0|F187A\_HUMAN Ig-like V-type domain-containing protein FAM187A OS=Homo sapiens  
GN=FAM187A PE=3 SV=1

MHLALTTVLLWAWGLQAFEIVEKENIFQRTPCPAFLMFENAAYLADMSFELPCHCKPEEV  
PAVVWFYQKHLGSSHTKVLTFDGRVLTEAAQVRVGSMDLTRFSIRMFSLLVFRAQSEDS  
GLYFCGTRKGDYFYAYDVDIQNSEGMVATFQDKGQEPFADEYYGHLHVFTTFWEWTPCDR  
CGVRGEQWRIGLCYLQSPDLSPRYLKAVPDVVSCGSRVPRKLRTKARDHTPEVLVRSCL  
VPCEKTKTIREGLVAIIINYVSKVSRPWVPQVPIQFHQQRLGHGLIISCPGARPEHAVAW  
DKDRQHLYRTQYLKGVNRSRMRVFDHGNQLHIRFTQLDDRGIIYCWRRQGVLVAGFRLGVT

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>sp|Q17R55|F187B\_HUMAN Protein FAM187B OS=Homo sapiens GN=FAM187B PE=2 SV=2

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KDLGQRPLQNETLHLGSKQLIFTWWEPWQDCNRCEEPGECKRLGYRYIEEPLEEAMPCWL  
YLGEVLVWSSRLPELQVEACHVQCTNNTQLRVDYVIFDNFRLDEKTEFVWLD CPLGSMY  
RPVNW RANDTPLTWESQLSGQDFTFLDPSTGGRQLQVFQPAVYKCFVQQELVAQFKPAA  
SLETLEAQWREND AQWREARKALRGRADSVLKGLKLVLLVTVLALLGALLKCIHPSGR  
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>sp|Q9H8W3|F204A\_HUMAN Protein FAM204A OS=Homo sapiens GN=FAM204A PE=2 SV=1

MWSGLLPPLNESDAESNSEDEATLENSGLNLQEDKEDESIRKTEIIDFSTDEPKTETES  
NVNAYEECPSGIPIDMWKFKQELHKKHSEQKSTTSRFRGKRRKRSRKDKLKNEKELHSEP  
SSNETQWKELTQYFGVNDRFDPVVKRKKVEKSGLEKRIDQAVEEWNIEKAEELSNQLATR  
ELGVKIAKAVACHNFVKAKKEVENSQAARKKKKLAWGFEAKKRWETKSNMGYM

>sp|Q8WUB2|F216A\_HUMAN Protein FAM216A OS=Homo sapiens GN=FAM216A PE=2 SV=1

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SDRIKDGYKVNSHIAKLQELWKTPQNQTIHLSKSMMEASFFKHPDLTTGQKRYLCSIAKI  
YNANYLKMLMKRQYMHVLQHSSQKPGVLTHHRSRLSSRYSQKQHYPCTTWRHQLEREDSG  
SSDIAAASAPEMLIQHSLWRPVRNKEGIKTGYASKTRCKSLKIFRRPRKLFMQTVSSDDS  
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>sp|Q86YD7|F90A1\_HUMAN Protein FAM90A1 OS=Homo sapiens GN=FAM90A1 PE=1 SV=3

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MKCWKAALVPPNFGEKEGKENLKPWKPQVEANPGPLNKDKGEKEERPRPQDPQRKALLHI  
FSRKPPEKPLPNQKGSTESSDYLRVASGMPVHTTSKRPRVDPVLSDRSATEMSDRGSVL  
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PQAASKTHGLLQAVSPQAQDKRPVTSQPCPPAATHSLGLGSNLSFGPGA KRSAPAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPR TSPQTGTRTPAQVLSGD  
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>sp|P00742|FA10\_HUMAN Coagulation factor X OS=Homo sapiens GN=F10 PE=1 SV=2

MGRPLHLVLLSASLAGLLLLGESLFIRREQANNILARVTRANSFLEEMKKGH LERECMEE  
TCSYEEAREVFEDSDKTNEFWNKYKGDQCETSPCQNGKCKDGLGEYTCTCLEGFEGKN  
CELFRKLCSLDNGDCDQFCHEEQNSVVCARGYTLADNGKACIPTGPYPCGKQTLERR  
KRSVAQATSSSGEAPDSITWKPYDAADLDPTENPFDLDFNQTPERGDNNLTRIVGGQE  
CKDGECPWQALLINEENEGFCGGTILSEFYILTAACHLYQAKRFKVRVGDRNTEQEEGGE  
AVHEVEVVIKHNRTKETYDFDIAVLR LKTPITFRMNVAPACLPERDWAESTLMTQKTGI  
VSGFGRTHEKGRQSTR LKMLEVPYVDRNSCKLSSSFIITQNMFCAGYDTKQEDACQGD SG  
GPHVTRFKD TYFVTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMKTRGLPKAKSHAPE  
VITSSPLK

>sp|P03951|FA11\_HUMAN Coagulation factor XI OS=Homo sapiens GN=F11 PE=1 SV=1

MIFLYQVVHFI LFTSVSGECVTQLLKDTCFEGGDITTVFTPSAKYCVVCTYHPRCLLFT  
FTAESPS EDPTRWFTCVLKDSVTETLPRVNR TAAISGYSFKQCSHQISACNKDIYVDLDM  
KGINYNSSVAKSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTRITK  
LDKVVS GFSLKSCALSNLACIRDIFPNTVFADSNIDSVMAPDAFVCGRICTHHPGCLFFT

FFSQEWPKESQRNLCLLKTSEGLPSTRIKSKALSGFSLQSCRHSIPVFCHSSFYHDTD  
FLGEELDIVAAKSHEACQKLCNAVRCQFFTYTPAQASCNEGKGKCYLKLSSNGSPTKIL  
HGRGGISGYTLRLCKMNECTTKIKPRIVGGTASVRGEWPWQVTLHTTSPTQRHLCGGS  
IGNQWILTAACHFCYGVESPKILRVYSGILNQSEIKEDTSFFGVQEIIHDQYKMAESGYD  
IALLKLETTVNYTDSQRPICLPSKGDRNVIYTDWVTGWGYRKLDRKIQNTLQKAKIPLV  
TNEECQKRYRGHKITHKMICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGEGCA  
QRRPQVYTNVVEYVDWILEKTQAV

>sp|P00748|FA12\_HUMAN Coagulation factor XII OS=Homo sapiens GN=F12 PE=1 SV=3

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CTHKGRPGPQWCATTPNFDQDQRWGYCLEPKVKDHCSKHSPCQKGGTCVNMPSGPHCL  
CPQHLTGNHCQKEKCFEPQLLRFHFKNEIWYRTEQAAVARCQCKGPDACQRLASQACRT  
NPCLHGGRCLEVEGHRLCHCPVGTGAFCDVDTKASCYDGRGLSYRGLARTTLGAPCQP  
WASEATYRNVTAEQARNWGLGGHAFCRNPNDIRPWCFLNRDRLSWEYCDLAQCQTPTQ  
AAPPTVPSPRLHVPMPAPQAPPKPQPTTRTPPQSQTGALPAKREQPPSLTRNGPLSCG  
QRLRKSLSMTRVVGGLVALRGAPYIAALYWGHSFCAGSLIAPCWVLTAAHCLQDRPAP  
EDLTVVLGQERRNHSCEPCQTLAVRSYRLHEAFSPVSYQHDLALLRLQEDADGSCALLSP  
YVQPVCLPSGAARPSETTLCQVAGWGHQFEGAEYASFLQEAQVPFLSLERCSAPDVHGS  
SILPMLCAGFLEGGTDACQDGSGLVCEQAAERRLTLQGIISWGS GCGDRNKPQVYT  
DVAYYLAWIREHTVS

>sp|O94988|FA13A\_HUMAN Protein FAM13A OS=Homo sapiens GN=FAM13A PE=1 SV=2

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VVWNIVEYLTQHGLTQEGFLRVNGNVKVEQLRLKFESGVPVELGKGDVCSAASLLKLF  
LRELPSDLITSALQPRFIQLFQDGRNDVQESSLRDLIKELPDTHYCLLKYLQFLTKVAK  
HHVQNRMNVHNLATVFGPNCFHVPFGLEGMKEQDLCKIMAKILENYNTLFEVEYTENDH  
LRCENLARLIIVKEVYYKNSLPILLTRGLERDMPKPPPKTKIPKSRSEGS IQAHRVLQPE  
LSDGIPQLSLRLSYRKACLEDMNSAEGAIKLVPSQEDERPLSPFYLSAHVPQVSNVS  
ATGELLERTIRSAVEQHLFDVNNSGGQSSSESGTSSASSATSARQRRRQSKEQDEV RH  
GRDKGLINKENTPSGFNHLDDCILNTQEVEKVHKNTFGCAGERSKPKRQKSSTKLSLHD  
NQDGLVNESLNSRSHERTGPDDFEWMSDERKGNEKDGGHTQHFEPTMKIQEHPSLSD  
TKQQRNQDAGDQEESEFVSEVPQSDLTALCDEKNWEEP IAFSSWQRENSDSDEAHLSPQA  
GRLIRQLLDESDPMLSPRFYAYGQSRQYLDDEVPSPSPNSHSFMRRRSSSLGSYDDEQ  
EDLTPAQLTRRIQSLKKIRKFEDRFEEKKYRPSHSDKAANPEVLKWTNDLAKFRRQLK  
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QEKRAESSRPEDIKMTKDQIANEKVALQKALLYYESIHGRPVTKNERQVMKPLYDRYRL  
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TLKTDFSARCFLDQFEDDADGFISPMDDKIPSKCSQDTGLSNLHAASIPELLEHLQEMRE  
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>sp|Q8NE31|FA13C\_HUMAN Protein FAM13C OS=Homo sapiens GN=FAM13C PE=1 SV=2

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QVRAGTPAHESQNNAFKQETVRLQPRIDQRTAISPKDAFETRQDLNEEEAAQVHGVD  
PAPASTQSVLADGTDSDAPSPVHKDQNEADSAPEDLHSVGTSRLLYHITDGDNPLLSPR  
CSIFSQSQRFNLDPEAPSPSTQQFMMPRSSSRCSCGDGKEPQTITQLTKHIQSLKRKI

RKFEEKFEQEKKYRPSHGDKTSNPEVLKWMNDLAKGRKQLKELKLKLSSEEQGSAPKGPPR  
NLLCEQPTVPRENGKPEAAGPEPSSSGEETPDAAITCLKERREQLPPQEDSKVTKQDKNL  
IKPLYDRYRIKQILSTPSLIPTIQEEEDSDEDRPQGSQQPSLADPASHLPVGDHLYTYSN  
ETEPVRALLPDEKKEVKPPALSMSNLHEATMPVLLDHLRETRADKKRLRKALREFEEQFF  
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>sp|Q96MK3|FA20A\_HUMAN Pseudokinase FAM20A OS=Homo sapiens GN=FAM20A PE=1 SV=4

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EALRYRRKVARWNRHRKMYREQMNLTSLDPPLQLRLEASWVQFHLGINRHGLYSRSPV  
VSKLLQDMRHFTISADYSQDEKALLGACDCTQIVKPSGVHLKLVLRFSDFGKAMFKPMR  
QQRDEETPVDFYFIDFQRHNAEIAAFHLDRIIDFRVRPPTVGRIVNVTKEILEVTKNEI  
LQSVFFVSPASNVCFFAKCPYMCKTEYAVCGNPHLLEGSLSAFLPSLNLAPRLSVPNPWI  
RSYTLAGEEWEVNPLYCDTVKQIYPYNNSQRLNVIDMAIFDFLIGNMDRHHYEMFTKF  
GDDGFLIHLDNARGFGRHSHDEISILSPLSQCCMIKKKTLLHLQLLAQADYRLSDVMRES  
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>sp|Q8IXL6|FA20C\_HUMAN Extracellular serine/threonine protein kinase FAM20C OS=Homo sapiens GN=FAM20C PE=1 SV=2

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LRGRDPGALRPHDPAHRPLLRDPGPRRSESPPGPGDASLLARLFEHPLYRVAVPPLTEE  
DVLFNVNSDTRLSPKAAENPDWPHAGAEGAEFLSPGEAAVDSYPNWLKFHIGINRYELYS  
RHNPAIEALLHDLSSQRITSVAMKSGGTQLKLIMTFQNYGQALFKPMKQTREQETPPDFF  
YFSDYERHNAEIAAFHLDRIIDFRVRPPVAGRMVNMTKEIRDVTRDKKLWRTFFISPANN  
ICFYGECSYYCSTEHALCGKPDQIEGSLAAFLPDLSLAKRKTWRNPWRRSYHKRKAWE  
VDPDYCEEVKQTPPYDSSHRILVMDMTIFDFLMGNMDRHHYETFEKFGNETFI IHLNNG  
RGFGKYSHDELSILVPLQQCCRIRKSTYLRLQLLAKEEYKLSLLMAESLRGDQVAPVLYQ  
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>sp|A6NFZ4|FA24A\_HUMAN Protein FAM24A OS=Homo sapiens GN=FAM24A PE=3 SV=1

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>sp|Q5R3K3|FA26F\_HUMAN Protein FAM26F OS=Homo sapiens GN=FAM26F PE=2 SV=1

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LALFLLGYVLSARTWRLTGCCSSARASCGSALRGLVCTQISAAAALAPLTWVAVALLG  
GAFYECAATGSAFAQRLCLGRNRSCAAELPLVPCNQAKASDVQDLLKDLKAQSQVLGWI  
LIAVVIIILLIFTSVTRCLSPVSFLQLKFWKIYLEQEQQILKSKATEHATELAKENIKCF  
FEGSHPKEYNTPSMKEWQQISSLYTFNPKGQYYSMLHKYVNRKEKTHSIRSTEGDTVIPV  
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>sp|POC841|FA66E\_HUMAN Putative protein FAM66E OS=Homo sapiens GN=FAM66E PE=5 SV=1

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>sp|Q8NEG0|FA71C\_HUMAN Protein FAM71C OS=Homo sapiens GN=FAM71C PE=1 SV=1

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LPLMFVKITIHNSVKKQLHLKLATGRSFYLLQCPPSDASEDLFVHWENLVYILRPPVEAY

SDTRAILAGNTLDSSVLEEVQRSPVGYAMKFCEEKEQFRISRLHMNAEMFGSTYCDYTIE

I

>sp|Q6ZRV2|FA83H\_HUMAN Protein FAM83H OS=Homo sapiens GN=FAM83H PE=1 SV=3

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EVTTLVQPPPPDSPSIKDEARRMIRSAQQVVAVVMDMFTDVLSEVLEAAARRVPVYIL  
LDEMNAQHFLDMADKCRVNLQHVDLRLVRTVAGPTYTCRTGKSFKGHVKEKFLLVDCAVV  
MSGYSFMWSEKIHRS LAHV FQ GELVSSFDEEFRLFAQSEPLVPSAAALARMDAYALA  
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RMPGGALEPHAGLRPLSRRLEAEAGPAGELAGARGFFQARHLEMDAFKRHSFATEGAGAV  
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GERRSLESCLLDLRDSFAQQHLHQEAERQPGAASLTAAQLLDTLGRSGSDRLPSRFLSAQS  
HSTSPQLD SLPLEGS GAHQVLHNE SKSPTSAYPERKGSPTPGFSTRRGSPTTGFI EQ  
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VLRKGSRLRLQLLSPKGERRMEDEGGFPVPQENGQPESPRRLSLGQGDSTEAAATEERGPR  
ARLSSATANALYSNLRDDTKAILEQISAHGQKHRAVPAPSPGPTHNSPELGRPPAAGVL  
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>sp|Q6ZTR7|FA92B\_HUMAN Protein FAM92B OS=Homo sapiens GN=FAM92B PE=2 SV=1

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NP ELRATMRGFAEDLAKVQDYRQAQVERLETKVVNPLKLYGAQIKQTRAEIKKFHVQNH  
EIKQLEKLEKLRQKSPSDQQMISQAETRVQRAAVDSSRTLQLEETVDGFRQKLKDLQK  
FFCDFVTIEMVFHAKAVEVYSSAFQTLKYDLERDLLDFRAKMQGVYGHYDTRLLANTSP  
PPSVLQSLASQGTQLVQLSRANEDPEHPHANHGRFSLCEWVVKGP AHCVCGQGGLMLP  
GHSL

>sp|Q8NCA5|FA98A\_HUMAN Protein FAM98A OS=Homo sapiens GN=FAM98A PE=1 SV=1

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ENVQATNSPSEAEFQLEVSGLLGEMNCPYLSLTSGDVTKRLLIQKNCLLLTYLISELE  
AARMLCVNAPPKKAQEGGGSEVFQELKGICIALGMSKPPANITMFQFFSGIEKKKLKETL  
AKVPPNHVGKPLLLKPMGPAHWEKIEAINQAIANEYEVRRKLLIKRLDVTVQSFGWSDRA  
KSQTEKLAKVYQPKRSVLSPKTTISVAHLLAARQDLSKILRTSSGSIREKTACAINKVLM  
GRVPDRGGRPNEIEPPPPPEMPWQKRQDGPQQQTGGRGGGRGGYEHSSYGGRGHEQGGG  
RGGRGGYDHGGRGGGRGNKHQGGWTDGGSGGGGGYQDGGYRDSGFQPGGYHGGHSSGGYQ  
GGGYGGFQTSSSYTSGSYQGGGYQQDNRYQDGGHHGDRGGGRGGRGGRGGRAGQGGG  
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>sp|P16930|FAAA\_HUMAN Fumarylacetoacetase OS=Homo sapiens GN=FAH PE=1 SV=2

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VFNQPTLNSFMGLGQAAWKEARVFLQNLLSVSQARLRDDTELKCAFI SQASATMHLPAT  
IGDYTDFYSSRQHATNVGIMFRDKENALMPNWLHLPVGYHGRASSVVVSGTPIRRPMGQM

KPDDSKPPVYGACKLLDMELEMAFFVGPGRNLGEPPIPSKAHEHIFGMVLMNDWSARDIQ  
KWEYVPLGPFGLGKSFGTTVSPWVVPMDALMPFAVPNPKQDPRPLPYLCHDEPYTFDINLS  
VNLKGEGMSQAATICKSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFG  
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>sp|000519|FAAH1\_HUMAN Fatty-acid amide hydrolase 1 OS=Homo sapiens GN=FAAH PE=1 SV=2

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RFRLQNPDLDEALLALPLPQLVQKLHSRELAPEAVLFYVKGAWEVNKGNTNCVTSYLAD  
CETQLSQAPRQGLLYGVPVSLKECFYTKGQDSTLGLSLNEGVPACDSVVVHVLKLQGAV  
PFVHTNVPQSMFSYDCSNPLFGQTVNPWKSSKSPGSSGEGALIGSGGSPLGLGTDIGG  
SIRFPSSFCGICGLKPTGNRLSKSGLKGCYVQGEAVRLSVGPMARDVESLALCLRALICE  
DMFRLDPTVPPLPFREEVYTSSQPLRVGYETDNYTMPSPAMRRVLETKQSLEAAGHTL  
VPFLPSNIPHALETSTGGFLSDGGHTFLQNFKGDFVDPCLGDLVSIKLPLQWLKGLLAF  
LVKPLLPRLSAFLSNMKSRSAGKLWELQHEIEVYRKTVIAQWRALDLDVVLTPMLAPALD  
LNAPEGRTGAVSYTMLYNCLDFPAGVVPVTTVTAEDEAQMEHYRGYFGDIWDKMLQKGMK  
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>sp|Q6GMR7|FAAH2\_HUMAN Fatty-acid amide hydrolase 2 OS=Homo sapiens GN=FAAH2 PE=2 SV=1

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WPFLGVPLTVKEAFQLQGMPNSSGLMNRDAIAKTDATVVALKAGAIPLGITNCSELC  
MWYESSNKIYGRSNNPYDLQHIVGGSSGEGCTLAAACSVIGVSDIGGSIRMPAFFNGI  
FGHKPSPGVVPNGKGQFLAVGAQELFLCTGPMCRYAEDLAPMLKVMAGPGIKRLKLDTKV  
HLKDLKFYWMHDDGGSFLMSKVDQDLIMTQKKVVVHLETILGASVQHVKLKKMKYSFQLW  
IAMMSAKGHDGKEPVKFVDLLGDHGKHVSPLWELIKWCLGLSVYTIPISGLALLEEKRLY  
SNEKYQKFKAVEESLRKELVDMLGDDGVFLYPSHPTVAPKHHVPLTRPFNFAYTGVSAL  
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>sp|P51161|FABP6\_HUMAN Gastrotropin OS=Homo sapiens GN=FABP6 PE=1 SV=2

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TNKFTVGKESNIQTMGGKTFKATVQMEGGKLVNFPNYHQTSEIVGDKLVEVSTIGGVY  
ERVSKRLA

>sp|Q96GK7|FAH2A\_HUMAN Fumarylacetoacetate hydrolase domain-containing protein 2A OS=Homo sapiens GN=FAHD2A PE=1 SV=1

MLVSGRRRLTLVLLQAQKWPFQPSRDMRLVQFRAPHLVGPHLGLETGNGGGVINLNAFDP  
TLPKTMTQFLEQGEATLSVARRALAAQLPVLPRSEVTFLAPVTRPDKVVCVGMNYVDHCK  
EQNVVPKPEPIIFSKFASSIVGPYDEVLPQSQEVDWEVELAVVIGKKGKHKATDAMA  
HVAGFTVAHDVSARDWQMRRNGKQWLLGKTFDFTFCPLGPALVTKDSVADPHNLKICCRVN  
GEVVQSGNTNQMVFKTEDLIAVVSQFVTFYPGDVILTGTTPGVGVFRKPPVFLKKGDEVQ  
CEIEELGVIINKVV

>sp|O15360|FANCA\_HUMAN Fanconi anemia group A protein OS=Homo sapiens GN=FANCA PE=1 SV=2

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LLEVEGPLCKKLSLSKVIDCDSSEAYANHSSSFIGSALQDQASRLGVPVGILSAGMVASS  
VGQICTAPAETSHPVLLTVEQRKKLSSLEFAQYLLAHSMFSSRLSFCQELWKIQSSLLLE  
AVWHLHVQGIVSLQELLESHPDMHAVGSWLFRNLCCLEQMEASCQHADVARAMLSDFVQ  
MFVLRGFGKNSDLRRTVEPEKMPQVTVDVLQRMLIFALDALAAGVQEESSTHKIVRCWFG  
VFSGHTLGSVISTDPLKRFFSHTLTQILTHSPVLKASDAVQMCREWSFARTHPLTSLYR

RLFVMLS AEELVGHLQEVL ETQEVHWQRVLSFVSALVVCFPEAQQLEDWVARLMAQAFE  
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VPFESPRYLQVHILHPPLVPGKYRSLLTDYISLAKTRLADLKVSIENMGLYEDLSSAGDI  
TEPHSQALQDVEKAIMVFEHTGNIPVTVMEASIFRRPYVYSHFLPALLTPRVLPKVPDSR  
VAFIESLKRADKIPPSLYSTYCQACSAAEKPEDAALGVRAEPNSAEELGQLTAALGEL  
RASMTDPSQRDVISAQVAVISERLRAVLGHNEDDSSVEISKIQLSINTPRLEPREHMAVD  
LLLTSCFCQNLMAASSVAPPERQGPWAALFVRTMCGRVLPVLTRLCQLLRHQGPSLSAPH  
VLGLAALAVHLGESRSALPEVDVGPPAPGAGLPVPALFDSLLTCRTRDSLFFCLKFCTAA  
ISYSLCKFSSQSRDTLCSCLSPGLIKKFQFLMFRLFSEARQPLSEEDVASLSWRPLHLPS  
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ILLRLPSSVLCGSSFQAEQPITARCEQFFHLVNSEMRNFCSHGGALTQDITAHFFRGLLN  
ACLSRDP SLMVDFILAKCQTKCPLILTSALVWWPSLEPVLLCRWRRHCQSPLPRELQKL  
QEGRQFASDFLSPEAASPAPNPDWLSAAALHFAIQQVREENIRKQKKLDCEREELLVFL  
FFFSLMGLLSSHLSNSTTDLPKAFHVCAAILECLEKRKISWLALFQLTESDLRLGRLLL  
RVAPDQHTRLLPFAFYSLSYFHEDAAREEAFLHVAVDMYKLVQLFVAGDTSTVSPPA  
GRSLELKGQGNPVELITKARLFLLQLIPRCPKKSFSHVAELLADRGDCDPEVSAALQSRQ  
QAAPDADLSQEPHLF

>sp|Q9NPI8|FANCF\_HUMAN Fanconi anemia group F protein OS=Homo sapiens GN=FANCF PE=1 SV=1

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RLHNQWRQEGGFGRGPVPGLANFQALGHCDVLLSLRLLENRALGDAARYHLVQQLFPGPG  
VRDADEETLQESLARLARRRSAVHMLRFNGYRENPNLQEDSLMKTQAEALLERLQEVGKA  
EAERPARFLSSLWERLPQNNFLKVIALLQPPLSRRPQEELEPGIHKSPGEGSQVLVHW  
LLGNSEVFAAFCRALPAGLLTLVTSRHPALSPVYLGLLTDWGQRLHYDLQKGIWVGTESQ  
DVPWEELHNRFSQLCQAPPPLKDKVLTAL ETCKAQDGD FEVPGLSIWTDLLLALRSGAFR  
KRQVLGLSAGLSSV

>sp|Q5TG10|FAXC\_HUMAN Failed axon connections homolog OS=Homo sapiens GN=FAXC PE=2 SV=2

MHWGVGFASSRPCVDLSWNQSI SFFGWAGSEEPFSFYGDIIAFPLQDYGGIMAGLGSD  
PWWKKTLYLTGGALLAAAYLLHELLVIRKQQEIDSKDAIILHQFARPNNGVPSLSPFCL  
KMETYLRMADLPYQNYFGGKLSAQGKMPWIEYNHEKVSGTEFIIDFLEEKLGVLNKNLNG  
PHERAISRAVTKMVEEHFYWTLAYCQWVDNLNETRKMLSLSGGGPFSNLLRWVVC HITKG  
IVKREMHGHGIGRFSEEEIYMLMEKDMRSLAGLLGDKKYIMGPKLSTLDATVFGHLAQAM  
WTLPGTRPERLIK GELINLAMYCERIRRKFWPEWHDDNTIYESEESSESGSKTHTPLLD  
FSFYSTRTEFEDEGAENSFSRTPD TDFTGHS LFDSDVDMDDYTDHEQCK

>sp|Q8TES7|FBF1\_HUMAN Fas-binding factor 1 OS=Homo sapiens GN=FBF1 PE=1 SV=2

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AEVSGISEADPQALLQAMKDLGMDADILGLKKSNSAPSKKAAKDPGKGELPNHPKPAGG  
AIPTKKSLSPPSSSHQNRRFSSEDLPLRGLLSYDEGGITKQPPVTQSKTASDKSPST  
VRDQGPSIPLTPGDTPIRKKEELLFDDGDDIMATLGFGDSPKAEKRQIGDQEGPRPARST  
LDELLGRGMATKLLARPGTGEHREFKLDKKYQRPQDSEDMWGEDFTFGAYQPTTVSSEG  
RQSRQSVSRFFADSGADPKGEPGSKQSPPMASSPIQPRKGGADWLGLKDELDLFPASP  
TREA HRESSVPVTPSPPPPASQHSTPAGLPSPRAKPPTGAGSPAKASQASKLRASKEEK  
EDWLSHALSRKKSQGLAREQHAGTSEGLHLAGTAGHPPSGSQPLTSTQGLEHAAAGSSG

TTARERPCVRPGVSGSPVTQNHAASALPTGSPKRGTA PGDLSATEPATCFPSTQKPTEPS  
VPVQPLLPESLARSLLPSTEYQKQLLAAQVQLQCSPAELQAE LLHSQARLAELEAQRKL  
ELERAQHELLLSLQQQHQADELLETSAHRSRIKVLETSYQQREERLRRENEELSARYLS  
QCQAEQARAELTAHQRRLLAAIAQEKDQEMERLRELQRASILDMRRDHEEQLRLKLLK  
DREVDAA TSATSHTRSLNSIIHQMEKFSSSLHELSSRVEASHLTTSQERELGIRQRDEQL  
RALQERLGQQQRDMEEERSRQQEVIGKMEARLNEQSRLLEQERWRVTAEQSKAESMQRAL  
EEQRKVTAQQMAMERAELERAKSALLEEQKSVMLKCGEERRRLAAEWA EFSAQKLSKER  
AERE AERALQVDTQREGTLISLAKQAE LKIRASELRAEEKQLAAERA ALEQERQELRLEK  
ERINATALRVKLRAEEVESMSK VASEKEYEEGERALREAQQVQAEQQARLQAVQQQERLR  
KQEQHMHQEHLSLAQQLQLDRARQDLPSSLVGLFPRAQGPAASSQSALMPPAPTTRWCS  
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>sp|Q8WUP2|FBLI1\_HUMAN Filamin-binding LIM protein 1 OS=Homo sapiens GN=FBLIM1 PE=1 SV=2

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SPWTTPGRAAATVPAAPMQLFNGGCPPPPPVLDGEDVLPDL LPPPPPPPVLLPSEEE  
APAPMGASLIADLEQLHLSPPPPPPQAPAEGPSVQGPLRPMEEELPPPPAEPVEKGAST  
DICAFCHKTVSPRELAVEAMKRQYHAQCFTCRTCRRQLAGQSFYQK DGRPLCEPCYQDTL  
ERCCKCGEVVRDHIIRALGQAFHPSCFTCVTCARCIGDES FALGSQNEVYCLDDFYRKFA  
PVCSICENPIIPRDGKDAFKIECMGRNFHENCYRCEDCRILL SVEPTDQGCYPLNNHLFC  
KPCHVKRSAAGCC

>sp|A6NHQ2|FBLL1\_HUMAN rRNA/tRNA 2'-O-methyltransferase fibrillarin-like protein 1  
OS=Homo sapiens GN=FBLL1 PE=3 SV=2

MKSAASSRGGGGGRGGGWGSGGGRGGGGAGKGGGGDGGGQGGKGGFGARARGFGGG  
GRGRGRGGGDGKDRGGGQRRGGVAKSKSRRRK GAMVVSVEPHRHEGVFIYRGAEDALVT  
LNMVPGQS VYGERRTVTEGGVKQEYRTWNPFRSKLAAAILGGVDQIHIKPKSKVLYLGA  
ASGTTVSHVSDIIGPDGLVYAVEFSHRAGRDLVNVAKKRTNIIPVLEDARHPLKYRMLIG  
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>sp|Q12805|FBLN3\_HUMAN EGF-containing fibulin-like extracellular matrix protein 1 OS=Homo  
sapiens GN=EFEMP1 PE=1 SV=2

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CVNHYGGYLCLPKTAQIIVNNEQPQQTQPAEGTSGATTGVVA ASSMATSGVLPGGGFVA  
SAAAVAGPEMTGRNNFVIRRNADPQRIPSNPSHRIQCAAGYEQSEHNVCQDIDECTAG  
THNCRADQVCINLRGSFACQCPPGYQKRGEQCVDIDECTIPPYCHQRCVNTPGSFYCQCS  
PGFQLAANNYTCVDINECDASNCAQQCYNILGSFICQCNQGYELSSDRLNCE DIDECRT  
SSYLCQYQCVNEPGKFSMCPQGYQVVRSTCQDINECETTNECREDEM CWNHGGFRCY  
PRNPCQDPYILTPENRCVCPVSNAMCRELPQSIVYKYSIRS DRSVPSDIFQIQATTIYA  
NTINTFRIKSGNENG EGYLRQTSFVSAMLVLVKSLSGPREHIVDLEMLTVSSIGTFR TSS  
VLRLTIIVGPF SF

>sp|095967|FBLN4\_HUMAN EGF-containing fibulin-like extracellular matrix protein 2 OS=Homo  
sapiens GN=EFEMP2 PE=1 SV=3

MLPCASCLPGSLLLWALLLLLLLSASPQDSEEPDSYTECTDGYEWD PDSQHCRDVNECLT  
IPEACKGEMKINHYGGYLCLPRSAAVINDLHGEGPPPPVPPA QHPNPCPPGYEPDDQDS  
CVDVDECAQALHDCRPSQDCHNLPGSYQCTCPDGYRKIGPECVD IDECRYRYCQHRCVNL  
PGSFRCQCEPGFQLGPNNRSCVDVNECDMGAPCEQRCFNSYGTFLCRCHQGYELHRDGFS



CSDIDECSYSSYLQYRCINEPGRFSCHCPQGYQLLATRLCQDIDECESGAHCSEAQTC  
VNFHGGYRCVDTNRCVEPYIQVSENRLCPASNPLCREQPSSIVHRYMTITSERSVPADV  
FQIQATSVYPGAYNAFQIRAGNSQGDYFIRQINNVSAMLVLARPVTGPREYVLDLEMVTM  
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>sp|Q9UBX5|FBLN5\_HUMAN Fibulin-5 OS=Homo sapiens GN=FBLN5 PE=1 SV=1  
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NQNGGYLCIPRTNPVYRGYPYSPYSTPYSGPYAAAPPLSAPNYPTISRPLICRFGYQMD  
ESNQCVDVDECATDSHCNPTQICINTEGGYTCSDTGYWLLEGQCLDIDECRYGYCQQL  
CANVPGSYSCTCNPGFNEDGRSCQDVNECATENPCVQTCVNTYGSFICRCDPGYELEE  
DGVHCSMDDECSFSEFLCQHECVNQPGTYFCSCPPGYILLDDNRSCQDINECEHRNHTCN  
LQQTCTYNLQGGFKCIDPIRCEEPYLRISDNRCMPAENPGCRDQPFITLYRDMDVVSGRS  
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>sp|P35556|FBN2\_HUMAN Fibrillin-2 OS=Homo sapiens GN=FBN2 PE=1 SV=3  
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PEYREEGAASVRVRRRGQDVLRGPNVCGSRFHSYCCPGWKTLPGGNQCIVPICRNSCG  
DGFCSRPNMCTCSSGQISSTCGSKSIQQCSVRCMNGGTCADDHCQCQKGYIGTYCGQPVC  
ENGCCQNGGRCIGPNRCACVYGTGPQCERDYRTGPCFTQVNNQMCQGGQLTGIVCTKTLCC  
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CRCPAGHKQSETTQKCEDIDECIIIPGICETGECSNTVGSYFCVCPRGYVTSTDGSRCID  
QRTGCMFSGLVNRCQAQELPGRMTKMQCCCEPGRCWGIGTIPEACPVRGSEEYRRLCMDG  
LPMGGIPGSAGSRPGGTGGNGFAPSGNGNGYGPGGTGFIPIPGGNGFSPGVGGAGVGAGG  
QGPIITGLTILNQTIDICKHHANLCLNGRCIPTVSSYRCECNMGYKQDANGDCIDVDECT  
SNPCTNGDCVNTPGSYCKCHAGFQRTPTKQACIDIDECIQNGVLCKNGRCVNTDGSFQC  
ICNAGFELTTDGKNCVDHDECTTNMCLNGMCINEDGSFKCICKPGFVLAPNGRYCTDVD  
ECQTPGICMNGHCINSEGSFRCDPPGLAVGMDGRVCVDTHMRSTCYGGIKKGVCVRFPF  
GAVTKSECCCANPDYGFGEPCQPCPAKNSAEFHGLCSSGVGITVDGRDINECALDPDICA  
NGICENLRGSYRCNCNSGYEPDASGRNCIDIDECLVNRLLCDNGLCRNTPGSYSCTCPPG  
YVFRTEETCEDINECESNPCVNGACRNNLGSFNCECSPGSKLSSTGLICIDSLKGTCLW  
NIQDSRCEVNINGATLKSECCATLGAAGWSPCERCELDTACPRGLARIKGVTCEDVNECE  
VFPGVCPNGRCVNSKGSFHCECPEGLTLDGTGRVCLDIRMEQCYLKWDEDECIHVPVPGKF  
RMDACCAVGAAGWTECEECPKPGTKKEYETLCPRGAGFANRGDVLTRPFYKDINECKAF  
PGMCTYGKCRNTIGSFKCRCSNGFALDMEERNCTDIDECRISPDLCGSGICVNTPGSFEC  
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INECSLSDNLCRNGKCVNMIGTYQCSCNPGYQATPDRQGCTDIDECIMNGGCDTQCTNS  
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DFQLNPTGVGCVDNRVGNCYLKFGPRGDSLSCNTEIGVGVSRSCCCSLGKAWGNPCET  
CPPVNSTEYITLCPGGEGFRPNPITIILEDIDECQELPGLCQGGNCINTFGSFQCECPQG  
YYLSEDRICEDIDECFAHPGVCPPGTCTYNTLGNITCICPPEYMQVNGGHNCMDMRKSFC  
YRSYNGTTCENELPFNVTKRMCCCTYNVGKAWNKPCEPCPTPGTADFKTICGNIPGFTFD

IHTGKAVDIDECKEIPGICANGVCINQIGSFRCCEPTGFSYNDLLLVCEDIDECSNGDNL  
CQRNADCINSPGSYRCECAAGFKLSPNGACVDRNECLEIPNVCSHGLCVDLQGSYQCICH  
NGFKASQDQTMCDVDECERHPCGNGTCKNTVGSYNCLCYPGFELTHNNDCLDIDECSF  
FGQVCRNGRCFNEIGSFKCLCNEGVELTPDGKNCIDTNECVALPGSCSPGTCQNLEGSFR  
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TVPSLHDTREDVNECLESPGICSNQCINTDGSFRCECPMGYNLDYTGVRVCDTDECSIG  
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TNGQCINTMGSFRFCCKVGYYTIDISGTSCIDLDECSQSPKPCNYICKNTEGSYQCSGPRG  
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QGYIQHYQWNQCVDENECSPNACGSASCYNTLGSYKACPSGFSFDQFSSACHDVNECS  
SSKNPCNYGCSNTEGGYLCGCPPGYRVGQGHCVSGMGFNKGQYLSLDEVDEENALSPE  
ACYECKINGYSKKDSRQKRSIHEPDPTAVEQISLESVDMDSPVNMKFNLSHLGSKEHILE  
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>sp|Q75N90|FBN3\_HUMAN Fibrillin-3 OS=Homo sapiens GN=FBN3 PE=2 SV=3

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AQERNCTDIDECRISPDLCGGTGVNTPGSFECECFPGYESGFMLMKNCMDVDECARDPL  
LCRGGTCTNTDGSYKQCPPGHELTAKGTACEDIDECSLSDGLCPHGQCVNVIQAFQCSC  
HAGFQSTPDRQGCVDINECRVQNGGCDVHCINTEGSYRSCGQGYSLMPDGRACADVDEC  
EENPRVCDQGHCTNMPGGHRCLCYDGFMATPDMRTCVDVDECDLNPHICLHGDCENTKGS  
FVCHCQLGYMVRKGATGCSVDVECEVGGHNCDSHASCLNIPGSFSCRCLPGWVGDFECH  
DLDECVSQEHRCSPRGDCLNVPGSYRCTCRQGFAGDGFCEDRDECAENVDLCDNGQCLN  
APGGYRCECEMGFDPTEDHRACQDVDECAQGNLCAFGSCENLPGMFRCICNGGYELDRGG

GNCTDINECADPVNCINGVCINTPGSYLSCPQDFELNPSGVGCVDTRAGNCFLETHDRG  
DSGISCSAEIGVGVTRASCCCSLGRAWNPCELCPMANTTEYRTLCPGGEGFQPNRITVI  
LEDIDECQELPGLCQGGDCVNTFGSFQCECPPGYHLSEHTRICEDIDECSTHSGICGPGT  
CYNTLGNVTCVCPAEYLQVNGGNNCMDMRKSVCFRHYNGTCQNELAFNVTRKMCCCSYNI  
GQAWNRPCEACPTPISPDIQLCGNQAPGFLTDIHTGKPLDIDECGEIPAICANGICINQ  
IGSFRCECPAGFNYSILLACEDVDECGSRESPCQQNADCINIPGSYRCKCTRGYKLSPG  
GACVGRNECREIPNVCSHGDCMDTEGSYMCLCHRGFQASADQTLCDIDECDRQPCGNGT  
CKNIIGSYNCLCFPGFVVTHNGDCVDFDECTTLVGQVCRFGHCLNTAGSFHCLCQDGFEL  
TADGKNCVDTNECLSLAGTCLPGTCQNLEGSFRICPPGFQVQSDHCIDIDECSEEPNLC  
LFGTCTNSPGSFQCLCPPGFVLSDNHRCFDTRQSFCFTRFEAGKCSVPKAFNTTKTRCC  
CSKRPGEGWGDPCELCPQEGSAAFQELCPFGHGAVPGPDDSDREDVNECAENPGVCTNGVC  
VNTDGSFRCECPFGYSLDFTGINCVDTDECSVGHPCGQGTCTNVIGGFECACADGFEPGL  
MMTCEDIDECSLNPLLCFAFRCHNTEGSYLCTCPAGYTLREDGAMCRDVDECADGQQDCHA  
RGMECKNLIGTFACVCPGMRPLPGSGEGCTDDNECHAQPDLCVNGRCVNTAGSFRCDGD  
EGFQPSPTLTECHDIRQGPCFAEVLQTMCRSLSSSSEAVTRAECGCGGRGWGPRCELCP  
LPGTSAYRKLCPHGSGYTAEGRDVDECRMLAHLCAHGECINSLGSFRCHCQAGYTPDATA  
TTCLDMDECSQVPKPCTFLCKNTKGSFLCSCPRGYLLEEDGRTCKDLDECTSRQHNCQFL  
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SSGHGCEVDNECDGPHRCQHGCQNQLGGYRCSCPQGFTQHSQWACVDENECALSPPTCG  
SASCRNTLGGFRCVCPSGDFDQALGGCQEVDECAGRRGPCSYSCANTPGGFLLCGCPQGY  
FRAGQGHCVSGLGFSPPQDTPDKEELLSSEACYECKINGLSPDRPRRSAHRDHQVNL  
TLDSEALLTLGLNLSHLGRAERILELRPALEGLEGRIRYVIVRGNEQGFFRMHHLRGVSS  
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>sp|Q8TCJ0|FBX25\_HUMAN F-box only protein 25 OS=Homo sapiens GN=FBX025 PE=1 SV=3

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EYASKRKRKDHFRNDTNTQSFYREKWIYVHKESTKERHGYCTLGEAFNRDLDFSSAIQDIR  
RFNYVVKLLQLIAKSQLTSLSGVAQKNYFNILDKIVQKVLDDHHNPRLIKDLLQDLSSTL  
CILIRGVGKSVLVGNINIWICRLETILAWQQQLQDLQMTKQVNNGLTSLDLPLHMLNNIL  
YRFDGWDIITLQVTPPLYMLSEDRQLWKKLCQYHFAEKQFCRHLILSEKGHIEWKLMY  
FALQKHYPAGEQYGDTLHFCRHCSILFWKDYHLALLFKDSGHPCTAADPDSCFTPVSPQH  
FIDLFKF

>sp|Q8NI29|FBX27\_HUMAN F-box only protein 27 OS=Homo sapiens GN=FBX027 PE=1 SV=2

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VDGQALWLLILARDHGATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLIRNPCG  
QEGLRKWMVQHGGDGWVVEENRTTVPGAPSQTFCVTSFSWCCKKQVLDLEEGLWPELLD  
SGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAPDPPIQWNNNACLHVTHV  
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>sp|Q7Z6M2|FBX33\_HUMAN F-box only protein 33 OS=Homo sapiens GN=FBX033 PE=1 SV=1

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EQPRLEFLMRKCGWFVRELVEFAAENYLSGGGPGDGGGADTGTGGEEVEALQLSARWLE  
VLRTYLELVLCVLVSIRNNRNLQKFSLFGDISVLQQQSLSNTYLSKVPDPGKKIKIQIQ  
LFEEILSNSRQLKWLSCGFMLEIVTPTSLSLSNAVANTMEHLSLLDNNIPGNSTLITAV  
ELERFVNLHSLALDFCDFTAEMARVLTDSNHVPLQRLSLLVHNVSVMHKSLDNMPNDEHW

KALSRKSTSFRVYIMAFDIKSEDMKILKPSIPLERIHFD SYITCVSGAIVDLISRQYDK  
FLTHFILMNDVIDTSGFPDLSNDRNEDPLVLLAWRCTKLSLLAIHGYTVWAHNLIATARL  
RGSDLKVLEVTEESIDFDQGEADQDVPVHNLIEQVSLGLGQPWHAVMDIESLSVFTPEP  
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>sp|Q6P3S6|FBX42\_HUMAN F-box only protein 42 OS=Homo sapiens GN=FBX042 PE=1 SV=1

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FLSPYQEHKTAALVCKQWYRLIKGVAHQCYHGMKAVQEGNIQWESRTYPYPGTPITQRF  
SHSACYDANQSMYVFGGCTQSSCNAAFNDLWRLDLNSKEWIRPLASGSYSPKAGATLV  
VYKDLLVLFGGWTRPSPYPLHQPERFFDEIHTYSPSKNWWNCIVTTHGPPPMAGHSSCVI  
DDKMIVFGGSLGSRQMSNDVWVLDLEQWAWSKPNISGPSHPRGGQSQIVIDDATILILG  
GCGGNALFKDAWLLHMHSGPWAWQPLKVENEEHGAPELWCHPACRVGQC VVVFSQAPSG  
RAPLSPSLNSRSPISATPPALVPETREYRSQSPVRSMD EAPCVNGRWGTLRPRAQRQTP  
SGSREGSLSPARGDGSPILNGGSLSPGTAAVGGSSLDSPVQAISPSTPSAPEGYDLKIGL  
SLAPRRGSLPDQDLRLGSIDLNDLKPASSSNPMDGMDNRTVGGSMRHPPEQTNGVHTP  
PHVASALAGAVSPGALRRSLEAIKAMSSKGPSASAALSPPLGSSPGSPGSQSLSSGETVP  
IPRPGPAQGDGHSPLPIARRLGHHPPQSLNVGKPLYQSMNCKPMQMYVLDIKDTKEKGRV  
KWKVFNSSSVVGGPPETSLHTTVVQGRGELIIFGGLMDKKQNVKYYPKTNALYFVRAKR

>sp|P31994|FCG2B\_HUMAN Low affinity immunoglobulin gamma Fc region receptor II-b OS=Homo sapiens GN=FCGR2B PE=1 SV=2

MGILSFLPVLATESDWADCKSPQPWGHMLLWTAVLFLAPVAGTPAAPPKAVLKLEPQWIN  
VLQEDSVTLTCRGTHSPESDSIQWFHNGNLIPHTHTQPSYRFKANNDSGEYTCQTGQTSL  
SDPVHLLTVLSEWLVLTQPHLEFQEGETIVLRCHSWKDKPLVKVTFQNGKSKKFSRSDPN  
FSIPQANHSHSGDYHCTGNIGYTYLSSKPVITITVQAPSSSPMGIIVAVVTGIATAAIVAA  
VVALIYCRKKRISALPGYPECREMGETLPEKPANPTNPDEADKVGAE NTITYSLLMHPDA  
LEEPDDQNR I

>sp|O75015|FCG3B\_HUMAN Low affinity immunoglobulin gamma Fc region receptor III-B OS=Homo sapiens GN=FCGR3B PE=1 SV=2

MWQLLLPTALLLV SAGMRTE DLPKAVVFLEPQWYSVLEKDSVTLKCQGAYSPEDNSTQW  
FHNESLISSQASSYFIDAATVNDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKE  
EDPIHLRCHSWKNTALHKVTYLQNGKDRKYFHHNSDFHIPKATLKDSGSYFCRGLVGSKN  
VSSETVNITITQGLAVSTISSFSPPGYQVSFCLVMVLLFAVDTGLYFSVKTNI

>sp|QOJRZ9|FCH02\_HUMAN F-BAR domain only protein 2 OS=Homo sapiens GN=FCH02 PE=1 SV=2

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SNYSQLGTFAPVWDVFKTSTEKLANCHLDLVRKLQELIKEVQKYGEEQVKSHKKTKEEVA  
GTLEAVQTIQSITQALQKSKENYNAKVEQERLKKEGATQREIEKAAVKSKKATDTYKLY  
VEKYALAKADFEQKMTETAQKFQDIEETHL IHIKEIIGSLSNAIKEIHLQIGQVHEEFIN  
NMANTTVESLIQKFAESKGTGKERPGLIEFEEDTASAVEGIKPRKRKTFALPGI IKKEK  
DAESVECPDADSLNIPDVDEEGYSIKPETNQNDTKENHFYSSSDSDEEPKKYRIEIK  
PMHPNNSHHTMASLDELKVSIGNITLSPAISRHSVPQMNRNLSNEELTKSKPSAPPNEKG  
TSDLLAWDPLFGPSLDSSSSSSLTSSSSARPTTPLSVGTIVPPRPASRPKLTSGKLSGI  
NEIPRPFSPPVTSNTSPPPAAPLARAESSSSISSSASLSAANTPTVGVS RGPSPVSLGNQ  
DTLPVAVALTESVNAYFKGADPTKCI VKITGDMTMSFPGI IKVFTSNPTPAVLCFRVKN  
ISRLEQILPNAQLVFS DPSQCDSNTKDFWMNMQAVTVYLKKLSEQNPAASYYNVDVLKYQ  
VSSNGIQSTPLNLATYWKCSASTDLRVDYKYNPEAMVAPSVLSNIQVVVPVDGGVTNMQ

SLPPAIWNAEQMAFWKLSSISEKSENGSGSLRAKFDLSEGPSKPTTLAVQFLSEGSTL  
SGVDFELVGTGYRLSLIKKR FATGRYLADC

>sp|075636|FCN3\_HUMAN Ficolin-3 OS=Homo sapiens GN=FCN3 PE=1 SV=2

MDLLWILPSLWLLLLGGPACLKTQEHPSCPGPRELEASKVLLPSCPGAPGSPGEKGAPG  
PQGPFPKMGPKGEPGDPVNLLRCQEGPRNCRELLSQGATLSGWYHLCLPEGRALPVF  
CDMDTEGGGWLVFQRRQDGSVDFFRSWSSYRAGFGNQESEFWLGNENLHQLTLQGNWELR  
VELEDFNNGRTFAHYATFRLLGEVDHYQLALGKFSEGTAGDSLHSGRPFTTYDADHDS  
SNSNCAVIVHGAWWYASCYRSNLNGRYAVSEAAAHKYGIDWASGRGVGHPYRRVRMMLR

>sp|Q9NVM1|EVA1B\_HUMAN Protein eva-1 homolog B OS=Homo sapiens GN=EVA1B PE=1 SV=1

MDAPRRDMELLSNSLAAYAHIRANPESFGLYFVLGVCFGLLLTLCLLVISISWAPRPRPR  
GPAQRDRPRSSTLEPEDDDEDEEDTVTRLGPDDTLPGPELSAEPDGPLNVNVFTSAEELE  
RAQRLEERERILREIWRGTGPDLLGTGLGPSPTATGTLGRMHYY

>sp|P57679|EVC\_HUMAN Ellis-van Creveld syndrome protein OS=Homo sapiens GN=EVC PE=1 SV=1

MARGGAACKSDARLLGRDALRPAPALLAPAVLLGAALGLGLGLWLGCRAQRQRTRHQKD  
DTQNLKLNLESNAQTPSETGSPSRRRKREVQMSKDKEAVDECEPPSNSNITAFALKAKVI  
YPINQKFRPLADGSSNPSLHENLKQAVLPHQPVEASPSSSLGSLSQGEKDDCSSSSSVHS  
ATSDDRFLSRTFLRVNAFPEVLACESVDVLCIYSLHLKDLLHLDALRQEKHMMFIQIF  
KMCLDLLPKKKSDELYQKILSKQEKDLEELEKGLQVKLSNTEMSGAGDSEYITLADVE  
KKEREYSEQLIDNMEAFWKQMANIQHFLVDQFKCSSSKARQLMMTLTERMIAAEGLLCDS  
QELQALDALERTMGRAHMAKVIEFLKLQVQEETRCRLAAISHGLELLAGEGKLSGRQKEE  
LLTQQHKAFWQEAERFSREFVQRGKDLVTASLAHQVEGTAKLTLAQEEEQRSFLAEAQPT  
ADPEKFLEAFHEVLERQRLMQCDLEEEENVRATEAVVALCQELYFSTVDTFQKFVDALFL  
QTLPGMTGLPPEECDYLQEVQENAAWQLGKSNRFRQQWKLQELLEQDQQVWMEECAL  
SSVLQTHLREDHEGTIRGVLGRLGGLTEESTRCVLQGHDLRLSALRRLALRGNALATLT  
QMRLSGKKHLLQELREQRALQEGSSQCLDEHQWQLLRALEARVLEEASRLEEEAAQTRLQ  
LQRLLAEEAQEVGQLLQQHMECAIGQALLVHARNAATKSRAKDRDDFKRTLMEAAVESVY  
VTSAGVSRLVQAYYQQIGRIMEDHEERKLQHLKTLQGERMENYKLRKKQELSNPSSGSRT  
AGGAHETSQAVHQRLMSQQKRFQAFVHQMRHAQQQQAGVMDLLEAQLETQLQEAEQ  
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>sp|Q92817|EVPL\_HUMAN Envoplakin OS=Homo sapiens GN=EVPL PE=1 SV=3

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QKRLQQDRLNSEQSALQHQQETGRSLKEAEVLLKDLFLDVKARRLKHPQAEIEKDIK  
QLHERVTQECAEYRALYEKMLPPDVGPVWDWARVLEQKQKQVCAGQYGPMAELEQQIA  
EHNILQKEIDAYGQQLRSLVGPDAATIRSQYRDLLKAASWRGQSLGSLYTHLQGCTRQLS  
ALAEQQRILQQDWSLMDPAGVRREYEHFKQHELLSQEQSVNQLEDDGERMVLRHPA  
VGPIQAHQEALKMEWQNFNLNCICQETQLQHVEDYRRFQEEADSVSQTAKLNSNLDAKY  
SPAPGGPPGAPTELLQQLAEAEKRLAVTERATGDLQRRSRDVAPLPQRRNPPQQPLHVDS  
ICDWDSGEVQLLQGERYKLVNDTPHAWVVQGPGETKRAPAACFCIPAPDPDAVARASR  
LASELQALKQKLATVQSRLKASAVESLRPSQQAPSGSDLANPQAQKLLTQMTRLGDGLGQ  
IERQVLAWARAPLSRPTPLEDEGRIHSHEGTAQRLQSLGTEKETAQKECEAFLSTRPVG  
PAALQLPVALNSVKNKFSQVLCSLYGEKAKAALDLERQIQDADRVIRGFEATLVQEAP  
IPAEPGALQERVSELQRQRRELLEQQTCVLRHLRALKASEHACAALQNNFQEFCDLPRQ  
QRQVRALTDYRHAVGDQLDLREKVVQDAALTYQQFKNCKDNLSSWLEHLPRSQVRPSDGP

SQIAYKLQAKRLTQETQSRERDRATASHLSQALQAALQDYELQADTYRCSLEPTLAVSA  
PKRPRVAPLQESIQAQEKNLAKAYTEVAAAQQQLLQQLFARKMLEKKELSEDIRRTHDA  
KQGESPAQAGRESEALKAQLEEEERKRVARVQHELEAQRSQLLQRLTQRPLERLEEKEVV  
EFYRDPQLEGSLSRVKAQVEEEGKRRLQADLEVAQAQVQVQLESKRKTMQPHLLTKEVT  
QVERDPGLDSQAALRIQIQQLRGEDAVISARLEGLKKELLALEKREVDVKEKVVVKEVV  
KVEKNLEMVKAQALRLQMEEDAARRKQAEAEAVAKLQARIEDLERAISSVEPKVIVKEVK  
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QVDPETEQEITRLKAKLQEMAGKRSQVEKEVEKLLPDLEVLRAQKPTVEYKEVTQEVVRH  
ERSPEVLREIDRLKAQLNELVNSHGRSQEQLIRLQGERDEWRRERAKVETKTVSKEVVRH  
EKDPVLEKEAERLRQEVREAAQKRRAEDAVYELQSKRLLERRKPEEKVVVQEVVVTQK  
DPKLREEHSRLSGSLDEEVGRRRQLELEVQQLRAGVEEQEGLLSFQEDRSKKLAVEREELR  
QLTLRIQELEKRPPTVQEKIIMEEVVKLEKDPDLEKSTEALRWDLQDEKTQVTELNRECK  
NLQVQIDVLQKAKSQEKTIIYEKIRVQKDRVLEDERARVWEMLNRERTARQAREEEARRL  
RERIDRAETLGRWSREESELQRARDQADQECGRLQQLRALERQKQQTLQLQEESKLL  
SQKTESERQKAAQRGQELSRLAAILREKDQIYEKERTLRDLHAKVSREELSQETQTRET  
NLSTKISILEPETGKDMSPYEAYKRGIDRGQYLQLQELECDWEEVTTSGPCGEESVLLD  
RKSGKQYSIEAALRCRRISKEEYHLYKDGHLPISEFALLVAGETKPSSSLSIGSIISKSP  
LASPAPQSTSFSPSFLGLGDDSFPIAGIYDTTNDKCSIKTAVAKNMLDPITGQKLE  
AQAATGGIVDLLSRERYSVHKAMERGLIENTSTQRLNAQKAFTGIEDPVTKKRLSVGEA  
VQKGWMPRESVLPHLQVQHLTGGIDPKRTGRIPIQQALLSGMISEELAQLLQDESSYEK  
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>sp|Q01844|EWS\_HUMAN RNA-binding protein EWS OS=Homo sapiens GN=EWSR1 PE=1 SV=1

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QPAYPAYGQQAATAPTRPDGKNPTETSQPPQSSTGGYNQPSLGYGQSNYSYPQVPGSYP  
MQPVTAPPSYPPTSYSSTQPTSQSSYSQQNTYGGPSSYGQSSYGQSSYGQPPPTSY  
PPQTGSYSQAPSQYSQQSSSYGQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSPDNR  
GRGRGGFDRGMSRGGRRGGGMRGMSAGERGGFNKPGGPMDEGPDLGPPVPDPEDSDN  
SAIYVQGLNDSVTLDDLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDP  
PTAKAAVEWFDGKDFQGSKLKVSARKKPPMNSMRGGLPPREGRGMPPLRGPGGPGGP  
GGPMGRMGRRGGDRGGFPGRGPRGSRGNPSGGGNVQHRAGDWQCPNPGCGNQNAFWRTEC  
NQCKAPKPEGFLPPFPFPPGGDRGGPGGMRGGRGGLMDRGGPGGMFRGGRGDRGGFR  
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>sp|Q2M3D2|EX3L2\_HUMAN Exocyst complex component 3-like protein 2 OS=Homo sapiens  
GN=EXOC3L2 PE=2 SV=1

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DVCELLEEHTERAPRISQEFGERMAHCCLGGLAEFLQSFQQRVERFHENPAVREMLPDY  
ISKTIALVNCGPPLRALAERLARVGPPESEPAEASASALDHVTRLCHRVVANLLFQELQ  
PHFNKLMRRKWLSSPEALDGI VGTLGAQALALRRMQDEPYQALVAELHRRALVEYVRPLL  
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VEVGVLVRDYPDIRQKHVAALLDIRGLRNTAARQEILAVARDLELSEEGALSPPRDRAFF  
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>sp|Q8TAG9|EXOC6\_HUMAN Exocyst complex component 6 OS=Homo sapiens GN=EXOC6 PE=1 SV=3  
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QQRNITTVVEKLQLCLPVLEMYSKLKEQMSAKRYYSALKTMEQLENVYFPWVSQYRFCQL  
MIENLPKLREDIKEISMSDLKDFLESIRKHS DKIGETAMKQAQHKTFSVSLQKQNKMKF  
GKNMYINRDRIPEERNETVLKHSLEEDENEEELITVQDLVDFSPVYRCLHIYSVLGDEE  
TFENYYRKQRKKQARLVLPQSNMHETVDGYRRYFTQIVGFFVVEDHILHVTQGLVTRAY  
TDELWNMALSKIIIAVLRAHSSYCTDPDLVLELKNLTVIFADTLQGYGFPVNRLFDLLFEI  
RDQYNETLLKKWAGVFRDIFEDNYSPIPVVNEEYKIVISKFPFQDPDLEKQSFPPKFP  
MSQSVPHIYIQVKEFIYASLKFSLEHRSSTEIDDMLRKSTNLLLTRLSSCLLNLIRKP  
HIGLTELVIQIIINTHLEQACKYLEDFITNITNISQETVHTRLYGLSTFKDARHAAEGE  
IYTKLNQKIDEFVQLADYDWTMSEPDGRASGYLMDLINFLRSIFQVFTHLPGKVAQTACM  
SACQHLSTSLMQMLLDSELKQISMGAQQFNLDVIQCELFASSEPVPGFQGDTLQLAFID  
LRQLLDLFMVWDWSTYLADYGQASKYLRVNPNTALTLEKMKDTSKKNNIFAQFRKNDR  
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>sp|Q9UPT5|EXOC7\_HUMAN Exocyst complex component 7 OS=Homo sapiens GN=EXOC7 PE=1 SV=3

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KAVEYFQDNSPDSPELNKVKLLFERGKEALESEFRSLMTRHSKVVSPVLILDLSGDDDL  
EAQEDVTLEHLPESVLQDVIRISRWLVEYGRNQDFMNVYQIRSSQLDRSIKGLKEHFHK  
SSSSSGVPYSPAIPNKRKDTPTKKPVKRPGTIRKAQNLLKQYSQHGLDGKKGGSNLIPLE  
GLLPCTPRGGLPGPWINAACVCAADI SPGHEHDFRVKHLSEALNDKHGPLAGRDDMLDVE  
TDAYIHCVSFAVKLAQSEYQLLADI IPEHHQKKTFDSL IQDALDGLMLEGENIVSAARKA  
IVRHDFSTVLTVFPILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETIGAKALEDFA  
DNINKNDPDKKEYNMPKDGTVHELTSNAILFLQQLDFQETAGAMLASQETSSSATSYSSEF  
SKRLLSTYICKVLGNLQLNLLSKSKVYEDPALSAIFLHNNYNYILKSLEKSELIQLVAVT  
QKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLPVFQPGVKLRDKERQIIKERFKGFN  
DGLEELCKIQKAWAIPDTEQRDRIRQAQKTIVKETYGAFLQKFGSVPFTKNPEKYIKYGV  
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>sp|Q15024|EXOS7\_HUMAN Exosome complex component RRP42 OS=Homo sapiens GN=EXOSC7 PE=1 SV=3

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GVKAEMGTPKLEKPNEGYLEFFVDCSASATPEFEGRGGDDLGTETIANTLYRIFNNKSSVD  
LKTLCISPREHCWVLYVDVLLLECGNLFDAISIAVKAALFNTRIPRVRLDEEGSKDI  
ELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLASLLSVTSKGVVTCMR  
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>sp|Q16394|EXT1\_HUMAN Exostosin-1 OS=Homo sapiens GN=EXT1 PE=1 SV=2

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QQKGEKIAESYQNILAAIEGSRFYTS DPSQACLFVLSLDTLDRDQLSPQYVHNLSKVQS  
LHLWNNGRNHLIFNLYSGTWPDYTEDVGFDIGQAMLA KASISTENFRPNFDVSIPLFSKD  
HPRTGGERGFLKFNITPPLRKMYLVFKGKRYLTGIGSDTRNALYHVHNGEDVLLTCKH  
GKDWQKHKDSRCDRDNTEYEKYDYREMLHNATFCLVPRGRRLGSFRFLEALQAACVPVML  
SNGWELPFSEVINWNQAAVIGDERLLLQIPSTIRSIHQDKILALRQQTQFLWEAYFSSVE  
KIVLTLEIIQDRIFKHISRNLIWNKHPGGLFVLPQYSSYLGDFFYYYANLGLKPPSKF  
TAVIHAVTPLVSQSQPVLKLLVAAAKSQYCAQIIVLWNC DKPLPAKHRWPATAVPVVVIE

GESKVMSSRFLPYDNIITDAVLSLDEDTVLSSTTEVDFAFTVWQSFPERIVGYPARSHFWD  
NSKERWGYTSKWTNDYSMVLTGAAIYHKYYHYLYSHYLPASLKNMVDQLANCEDILMNFL  
VSAVTKLPPIKVTKKKYKETMMGQTSRASRWADPDHFAQRQSCMNTFASWFGYMPLIHS  
QMRDLPVLFKDQVSILRKKYRDIERL

>sp|Q9UBQ6|EXTL2\_HUMAN Exostosin-like 2 OS=Homo sapiens GN=EXTL2 PE=1 SV=1

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STMDSFTLIMQTYNRTDLLKLLNHYQAVPNLHKVIVVWNNIGEKAPDELWNSLGPHPIP  
VIFKQQTANMRMRNLQVFPELETNAVLMVDDDTLISTPDLVFAFSVWQQFPDQIVGFVPR  
KHVSTSSGIYSYSGFEMQAPGSGNGDQYSMVLI GASFFNSKYLELFQRQPAAVHALIDDT  
QNCDDIAMNFIIAKHIGKTS GIVKPVNMDNLEKETNSGYSGMWHRAEHALQRSYCINKL  
VNIYDSMPLRYSNIMISQFGFPYANYKRKI

>sp|Q99504|EYA3\_HUMAN Eyes absent homolog 3 OS=Homo sapiens GN=EYA3 PE=1 SV=3

MEEEQDLPEQPVKKAKMQESGEQTISQVSNPDVSDQKPETSSLASNLPMSSEEIMTCTDYI  
PRSSNDYTSQMYSAKPYAHILSVPVSETAYPGQTQYQTLQQTQPYAVYPQATQTYGLPPF  
GALWPGMKPESGLIQTPSPSQHSVLCTTGLTTSQPSPAHYSYPIQASSTNASLISTSST  
IANIPAAAVASISNQDYPTYTILGQNQYQACYPSSSFGVTGQTNSDAESTTLAATTYQSE  
KPSVMAPAPAAQRLSSGDPSTSPSLSQTPSKDQSRKNMTSKNRGKRKADATSSQDS  
ELERVFLWDLDETIIFHSLLTGSYAQKYGKDPTVVIGSGLTMEEMIFEVADTHLFFNDL  
EECDQVHVEDVASDDNGQDLSNYSFSTDGFSGGSGSHGSSVGVQGGVDWMRKLAFRYR  
KVREIYDKHKSNGVGLLSPQRKEALQRLRAEIEVLTD SWLGTALKSLLLIQSRKNCVNVL  
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EEIAAQHNMPFWRITNHGDLVSLHQALELDFL

>sp|Q15910|EZH2\_HUMAN Histone-lysine N-methyltransferase EZH2 OS=Homo sapiens GN=EZH2  
PE=1 SV=2

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KQRRIQPVHILTSVSSLRGTRCSVTSDDLDFPTQVIPLKTLNAVASVPIMYSWSPLQQNF  
MVEDETVLHNIPYMGDEVLDQDGT FIEELIKNYDGKVHGDRECGFINDEIFVELVNALGQ  
YNDDDDDDGDDPEEREKQKQLEDHRDDKESRPPRKFPSDKIFEAISSMFPDKGTAEEL  
KEYKELTEQQLPGALPPECTPNIDGPNASVQREQSLHSFHTLFCRRCFKYDCFLHPPFH  
ATPNTYKRKNTETALDNKPCGPQCYQHLEGAKEFAAALTAERIKTPPKRPGRRRGRLPN  
NSSRPSTPTINVLESKDTSDREAGTETGGENNDKEEEEKKDETSSSSSEANSRCQTPIKM  
KPNIEPPENVESGAEASMFVRLIGTYDNFCAIARLIGTKTCRQVYEFVRKESSIIAPA  
PAEDVDTPPRKKRKHRLWAAHCRKIQLKKGSSNHVYNYQPCDHRQPCDSSCPCVIAQ  
NFCEKFCQCSSECQNRFPGCRCKAQCNKQKPCYLAVRECDPDLCTCGAADHWDSKNVS  
CKNC SIQRGSKKHLLAPSDVAGWGIFIKDPVQKNEFISEYCGEII SQDEADRRGKVYDK  
YMC SFLFNLNDFVVDATRGKNKIRFANHSVNPNCYAKVMVNGDHRIGIFAKRAIQTGE  
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>sp|Q9NTX9|F217B\_HUMAN Protein FAM217B OS=Homo sapiens GN=FAM217B PE=2 SV=1

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EIDPVYFDLHPGQGHTKPEYYYPNFLSPFSSWDLRDMALLLNAENKTEAVPRVGGLLGK  
YIDRLIQLEWLQVQTVQCEKAKGGKARPPTAPGTSGALKSPGRSKLIASALSKPLPHQEG  
ASKSGPSRKKAFFHHEEIHPSHYAFETSPRPIDVLGGTRFCSQRQTLEMRTEEKKKKSSKS  
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```
>sp|Q8IW50|F219A_HUMAN Protein FAM219A OS=Homo sapiens GN=FAM219A PE=1 SV=3
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RKGSLKNGSMGSPVNQPKKNNVMARTRLVVPNKGYS SLDQSPDEKPLVALD TSDDDFD
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ACHI Q
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>sp|A6NXX1|F223B_HUMAN Protein FAM223B OS=Homo sapiens GN=FAM223B PE=3 SV=1
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TRKNHESNSSLHHVPNWIFHSTIIIPPNGSKRCLRKVDWLLPRAGGVGGKRGVTADGDRV
SF
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>sp|PODMU5|F231C\_HUMAN Protein FAM231C OS=Homo sapiens GN=FAM231C PE=3 SV=1  
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GPRASREEGTFTWTERVGGQERWLIRSGSSQNESQEDQGAGLISQAGLKADNRRESSTWANE  
VEDRRPQCTPALNLTSPHPPHSLTTFRLRSVIGIQIPPLVAAGGTVA

>sp|Q5T7N8|F27D1\_HUMAN Protein FAM27D1 OS=Homo sapiens GN=FAM27D1 PE=3 SV=2  
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AMRK TALWHTGHLQPKTHHTGMHTQTHRRERNTQRLDRERRENGRHTRHHTLHT  
HTRDHTASYRRIETHTRQPLRLGSAHDENDPRVREQPRGTQADLSSSRMAARLL  
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>sp|Q96KD3|F71F1_HUMAN Protein FAM71F1 OS=Homo sapiens GN=FAM71F1 PE=2 SV=1
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RVVHSPEFNLFLDSVVFESNFIQVKGRNWRDVYKASNTMALGVTSSVPCPLPLNILLMA
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SVKWHQQNQNTWNRPSIAPNIFLKRILPLRFVELQVCDHYQRILQLRTVTEKIYYLKLHP  
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SESLIQLMTKGESEALSQIFADLHQNNQLSFRSSRKVETNKNSSGKSSREDSIPCTCDL  
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>sp|A8MX19|F90AC\_HUMAN Putative protein FAM90A12P OS=Homo sapiens GN=FAM90A12P PE=5 SV=1

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FSGKPPEKPLPNGKGSTESSDYLRVASGMPVHTSSKRPRLDPIADRSATAMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAADMPQPAVRHEGREPLLVKPHTSRPEGGCREV  
PQAASKTHGLPQAARPQAQDKRPAVTSLPCPPAATHSLGLGSNLSFGPGAKRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
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>sp|A6NEW6|F90AG\_HUMAN Putative protein FAM90A16P/FAM90A17P OS=Homo sapiens GN=FAM90A16P  
PE=5 SV=1

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FSGKPPEKPLPNGKGSTESSDHLRVASGMPVHTSSKRPRVDPVLADRSAAEMSGRGSVL  
ASLSPLRKASLSSSSSLGPKERQTGAADIPQPAVRHQGREPLLVKPHTSRPEGGCREV  
PQAASKTHGLLQAARPQAQDKRPAVTSQPCPPAATHSLGLGSNLSFGPGAKRPAQAPIQA  
CLNFPKKPRLGPFQIPESAIQGGELGAPENLQPPPAATELGPSTSPQMGRRTPAQVPSVD  
RQPPHSTPCLPTAQAQCTMSHSAASHDGAQPLRVLFRRLENGRWSSSLLAAPSFSPEKP  
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>sp|A6NNH2|F90AR\_HUMAN Protein FAM90A27P OS=Homo sapiens GN=FAM90A27P PE=3 SV=2

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FPRTPEKMQEAWKEPAEDCLFLRHPTMPLPVHTTKRSVLGPVSTGPPPVNKPENMLLC  
PSGHNDSPQLSTCGPTKGHRDVTASLLPVLKSSHQTPTLSARLPANRPDMSSHGALQPA  
MQALALGPGLKSQAEIKHPDADAKPRPQQVRKQCGQDSRTQAPDKEPAPVPTQTFQNPAA  
KARFSSFTPALRTQLPDVGAVQTLQPPRTATGLGSKEAPKATAETAATKTATLQPRVNL  
QPAPSSPFLGPAQGPVLQPGPIHVPGRPGSVTFMRGDKGQKSPFRMPPTSRRPENSA  
SAQSPRFSRQPEGQGPQVSTSVLYEDLLVTSSSEDSDS

>sp|POC866|F91A2\_HUMAN Putative uncharacterized protein encoded by LINC00869 OS=Homo  
sapiens GN=LINC00869 PE=5 SV=1

MLLSWGGGESRRPVQEASSATDNTNSQEDPADTASVRSLSLSAGHTKHIAFLFDSTLTA  
FLMMGNLSPVQSTGEREAQRYFEHALTLRNTTLFLRHNKDLVVQTAQPDQPNYGFPLDLL  
RCESLLGLDPATGSRLNKNYTLVSMAPLTNEIRPVSSCTPQHIGPAIPEVSSVWFKQY  
IYVYHITGQGPPSLLLSKGRPRKLPDIFQSYDRLLITSWGHPGVVPTSNVLTMLNDAL  
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>sp|A1XBS5|F92A1\_HUMAN Protein FAM92A1 OS=Homo sapiens GN=FAM92A1 PE=1 SV=2

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NREKQLTQLERTRQRNPSDRHVISQAETELQRAAMDASRTSRHLEETINNFERQKMKDI  
KTIFSEFITIEMLFHGKALEVYTAAYQNIQNIQDEDEDLEVFRNSLYAPDYSSRLDIVRAN

SKSPLQRSLSAKCVSGTGQVSTCRLRKDQQAEDDEDELDTVEENFLK

>sp|Q9NYF5|FA13B\_HUMAN Protein FAM13B OS=Homo sapiens GN=FAM13B PE=1 SV=2

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LSQDYNNEDEFGRKLRFLQLQPPVNYSLKFLCRFLANVASHHEE IWSANSLAAVFGPD  
VFHIYTDVEDMKEQEIVSRIMAGLLENYYEFFENEEEDFSSNDLSSITEQVNELSEEEEE  
DEKLEHIEELPEEGA EKSNMPEVVQLRM TENILESNSVTATSTHISPISILPASTDILE  
RTIRAAVEQHLFDLQSSIDHDLKNLQQQSVVCNNEAESIHCDGEGSNNQIDIADDIINAS  
ESNRDCSKPVASTNLDNEAMQDCVFENEENTQSVGILLEPCSDRGDSEDGCLERE EYLL  
FDSDKLSHLILDSSSKICDLNANTESEVPGGQSVGVQGEAACVSI PHLDLKNVSDGDKWE  
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DSSSKALSFTIRRSSFSKDEKREDRTPYQLVKKLQKKIRQFEEQFERERNSKPSYSDI  
AANPKVLKWMTELTKLRKQIKDAKHKNSDGEFVPQTRPRSNTLPKSFSSLDHEDEENED  
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SQHGRPVTKEERHIVKPLYD RYRLVKQMLTRASITPVLGSPSTKRRGQMLQPIIEGETAH  
FFEEIKEEEEDGVNLSELGDM LKTAVQVQSSENSESDVEENQEKLALDLRLSSSRAAS  
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>sp|Q8NDB6|FA156\_HUMAN Protein FAM156A/FAM156B OS=Homo sapiens GN=FAM156A PE=1 SV=1

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>sp|Q5SRD0|FA21D\_HUMAN Putative WASH complex subunit FAM21 OS=Homo sapiens GN=FAM21D PE=3  
SV=2

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EALAAAAAPWEGGPVPGVDTSPFAKSLGHSRGEADLFDSGDIFSTGTGSQSVERTKPKAK  
IAENPANPPVGGKAKSPMPALGEASSDDDLFQSAKPKPAKKTNPFP LLEDDDLFTDQK  
VKKNETKSSSQDVLTTQDIFEDDIFATEAIKPSQKTREKEKTLESNLFDDNIDIFADL  
TVKPKEKSKKKVEAKSIFDDDDMDIFSTGIQAKTTKPKSRSAQAAP EPRFEHKVSNIFDD  
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>sp|Q8N5W8|FA24B\_HUMAN Protein FAM24B OS=Homo sapiens GN=FAM24B PE=3 SV=2

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>sp|Q5JW98|FA26D\_HUMAN Protein FAM26D OS=Homo sapiens GN=FAM26D PE=2 SV=1

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LILLVAGFALRSQMWTITGEYCCSCAPPYRRISP LECKLACLRF SITGRAVIAPLTWLA  
VTLLTGTYIECAASEFASVDHYPMFDNVSASKREEILAGFPCCRSAPSDVILVRDEIALL  
HRYQSQMLGWILITLATIAALVSCCVAKCCSPLTSLQHCYWTSHLQNERELFEQA AEQHS  
RLMMHRIKKLFGFIPGSE DVKHIRIPSCQDWKDISVPTLLCMGDDLQGHYSFLGNRVDE  
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>sp|Q9Y421|FA32A\_HUMAN Protein FAM32A OS=Homo sapiens GN=FAM32A PE=1 SV=2

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>sp|Q86V20|FA35A\_HUMAN Protein FAM35A OS=Homo sapiens GN=FAM35A PE=2 SV=1

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QICGFKSTVPHFTEEEKYQKLLSENKIRDEQPKHQPDICGNFNTNLFQLGHKCAAVLDL  
VCSTEKINIGPEVVQRECVPTHEYHEIQNQCLGLFSSNAVDKSRSEAAVRKVS DLKISTDT  
EFLSIITSSQVAFLAQKKDKRRSPVNGNVNMETEPKASYGEIRIPEENSIQLDGFTEAY  
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SEFKSIKKTSLIKNCDSKSKYNC LVMVLS PCHVKEINIKFGPN SGSKVPLATVTVIDQS  
ETKKKVFLWRTAAFWAFTVFLGDIILLTDVVIHEDQWIGETVLQSTFSSQLNLGSYSSI  
QPEEYSSVVSEVLQDLLAYVSSKHSYLRDLPPRQPQRVNSIDFVEHLQPDVLVHAVL  
RVVDFTILTEAVYSYRGQKQKKV MLTVEQAQDQHYALVLWGPGAAWYPQLQRKKGVVLIK  
AQISELAFPTASQKIALNAHSSLKSIFSSLPNIVYTGCACGLELETDENRIYKQCFSC  
LPFTMKKIYYR PALMTAIDGRHDVCIRVESK LIEKILLNISADCLNRVIVPSSEITYGMV  
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>sp|Q6NSW5|FA45B\_HUMAN Putative protein FAM45B OS=Homo sapiens GN=FAM45BP PE=5 SV=1

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KMMESYIAVLTKGICQSEENG SFLSKDFDARKAYPAGSIKDIVSQFGMETVILHTALMLK  
KRIVVYHPKIEAVQEFTRTL PALVWHRQDWTILHSYVHLNADELEALQMCTGYVAGFVDL  
EVSNRPDLYDVFVNLAESEITIAPLAKEAMAMGKLHKEMGQLIVQSAEDPEKSESQVIQD  
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>sp|Q96A09|FA46B\_HUMAN Protein FAM46B OS=Homo sapiens GN=FAM46B PE=1 SV=2

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FHPTVTGESLYGDFTEALEHLRHRVIATRSPEEIRGGGLLYCHLLVRGFRPRPSTDVRA  
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>sp|Q6ZS17|FA65A\_HUMAN Protein FAM65A OS=Homo sapiens GN=FAM65A PE=1 SV=1

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QAFYNMLRRQEELNGTAWLSSESSDSSSPQLSGTARHSPAPRPLVQQPEPLPIQVAF  
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>sp|Q8IYT1|FA71A\_HUMAN Protein FAM71A OS=Homo sapiens GN=FAM71A PE=2 SV=2

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LLPLRFVRISVQDHEKQQLRLKFATGRSCYLQLCPALDTRDDLFAWYWEKLIYLLRPPMES  
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>sp|Q86X60|FA72B\_HUMAN Protein FAM72B OS=Homo sapiens GN=FAM72B PE=2 SV=2

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>sp|Q8TAV0|FA76A\_HUMAN Protein FAM76A OS=Homo sapiens GN=FAM76A PE=2 SV=1

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QNEIPKKKSKFESITNGDSFSPDLALDSPGTDHFVIAQLKEEVATLKKMLHQDKMIL  
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SGAITS

>sp|Q5JUQ0|FA78A\_HUMAN Protein FAM78A OS=Homo sapiens GN=FAM78A PE=2 SV=1

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>sp|Q96KN1|FA84B\_HUMAN Protein FAM84B OS=Homo sapiens GN=FAM84B PE=1 SV=1

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DGGDGGPPPPQPPYDPRLHEVECSVFYRDECIYQKSFAPGSAALSTYTPENLLNKCKPGD  
LVEFVSQAQYPHWAVYVGNFQVVHLHRLEVINSFLTDASQGRRGRVVNDLYRYKPLSSSA  
VVRNALAHVGAKERELSWRNSSEFAAWCRYGKREFKIGGELRIGKQPYRLQIQLSAQRS  
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EEEDGEAVAH

>sp|Q96GI7|FA89A\_HUMAN Protein FAM89A OS=Homo sapiens GN=FAM89A PE=1 SV=1

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QDELSRGGPGGGGAAAAALPAKPPNLDAALALLRKEMVGLRQLDMSLLCQLYSLYESIQE  
YKGACQAASSPDCTYALENGFFDEEEYFQEQNSLHRRDRGPPRDLSLPVSSLSSSDWI  
LESI

>sp|Q9H5X1|FA96A\_HUMAN MIP18 family protein FAM96A OS=Homo sapiens GN=FAM96A PE=1 SV=1

MQRVSGLLSWTLRVLWLSGLSEPGAARQPRIMEEKALEVYDLIRTIRDPEKPNTLEELE  
VVSESCVEVQEINEEYLVIIIRFTPTVPHCSLATLIGLCLRVKLQRCLPFKHKLEIYISE  
GTHSTEEDINKQINDKERVAAAMENPNLREIVEQCVLEPD

>sp|Q52LJ0|FA98B\_HUMAN Protein FAM98B OS=Homo sapiens GN=FAM98B PE=1 SV=1

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SLCNLEESITSAGRDDLESFQLEISGFLKEMACPYSVLISGDIKDLKKKEDCLKLLFL  
STELQASQILQNKHKHNSQLDKNSEVYQEVQAMFDTLGIPKSTTSIPHMLNQVESKVKD  
ILSKVQKNHVKGKPLKMDLNSEQAEQLERINDALSCEYECRRRMLMKRLDVTQVSFGWSD  
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>sp|Q9BXW9|FACD2\_HUMAN Fanconi anemia group D2 protein OS=Homo sapiens GN=FACD2 PE=1  
SV=2

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TGESQNQLAVDQIAFQKKLFQTLRRHPSYPKIIIEFVSGLESYIEDEDSFRNCLLSCERL  
QDEEASMGASYSKSLIKLLGIDILQPAIIKTLFEKLPEYFFENKNSDEINIPRLIVSQL  
KWLDRVVDGKDLTTKIMQLISIAPENLQHDIITSLPEILGDSQHADVKGELSDLLIENTS  
LTVPILDVLSRLDPNFLKVRQLVMDKLSSIRLEDLPVLIKFILHSVTAMDTLEVISE  
LREKLDLQHCVLPSRLQASQVKLSKGRASSSGNQESSGQSCIILLFDVIKSAIRYEKTI  
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FSVHYLVLKDMCSSILSLAQSLHSLDQSIISFGSLLYKYAFKFFDTCQQEVVGALVTH  
ICSGNEAEVDTALDVLELVLNPSAMMMNAVVKGILDYLDNISPPQIRKLFYVLSTLA  
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QDAFVVDSCVVEGDFPFPPVKALYGLEEYDTQDGIINLLPLLFSQDFAKDGGPVTSQES  
GQKLVSPLCLAPYFRLRLCVERQHNGNLEEIDGLDCPIFLTDLEPGEKLESMSAKERS  
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GPPELLFLLLEDLSQKLESMLTPPIARRVPFLKNKGSRNIGFSLHQQRSAQEIIVHCVFQLL  
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PENQNLLYSALHVLSSRLKQGEHSQPLEELLSQSVHYLQNFHQSIQSFQCALYLIRLLMV  
ILEKSTASAQNKEKIASLARQFLCRVWPSGDKEKSNISNDQLHALLCIYLEHTESILKAI  
EEIAGVGVPPELINSKPDASSSTFPTLTRHTFVVFFRVMMAELEKTVKKIEPGTAADSQQI  
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REDVLSLLETFLDTRLLHHLCHGSKIHQDTRLTQHVPLLKKTLELLVCRVKAMLTNNC  
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QDSDESYDDSD

>sp|Q9Y5Q0|FADS3\_HUMAN Fatty acid desaturase 3 OS=Homo sapiens GN=FADS3 PE=2 SV=1

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>sp|Q96CS3|FAF2\_HUMAN FAS-associated factor 2 OS=Homo sapiens GN=FAF2 PE=1 SV=2

MAAPEERDLTQEQTAKLLQFQDLTGIESMDQCRHTLEQHNWNIEAAVQDRLNEQEGVPSVFNPPPSRPLQVNTADHRIYSYVSRPQPRGLLGWGYLIMLPFRFTYYTILDIRFALRFIRPDPRSRTDPVGDIVSFMHSFEEKYGRAHPVFYQGTYSQALNDAKRELRFLLVYLHGDHQSDEFCRNTLCAPEVISLINTRMLFWACSTNKPEGYRVSQALRENTYPFLAMIMLKD RRMTTVGRLEGLIQPDDLINQLTFIMDANQTYLVSERLEREERNQTQVLRQQQDEAYLASLRADQEKERKKREERERKRRKEEEVQQQLAEERRRQNLQEEKERKLECLPPEPSDDPE SVKIIFKLPNDSRVERRFHFSQSLTVIHDFLFSLKESPEKFQIEANFPRRVLPICIPSEEW PNPPTLQEAGLSHTEVLFVQDLTDE

>sp|O60667|FAIM3\_HUMAN Fas apoptotic inhibitory molecule 3 OS=Homo sapiens GN=FCMR PE=1 SV=1

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>sp|Q9NYY8|FAKD2\_HUMAN FAST kinase domain-containing protein 2, mitochondrial OS=Homo sapiens GN=FASTKD2 PE=1 SV=1

MLTTLKPFGSVSVESKMNNKAGSFFWNLRQFSTLVSTSRMRLCCLGLCKPKIVHSNWNILNNFHNRMQSTDIIRYLFQDAFIFKSDVGFQTKGISTLTALRIERLLYAKRLFFDSKQSLVPVDKSDDELKKVNLNHEVSNEDVLTKETKPNRISSRKLSEECNSLSDVDAFSKAPTFPSSNYFTAMWTIAKRLSDDQKRFKRLMFSHPAFNQLCEHMMREAKIMQYKYLFLSLHATV KLGIPQNTILVQTLRLVTQERINECDEICLSVLSTVLEAMEPCKNVHVLRTGFRILVDQQVWKIEDVFTLQVVMKCIGKDAPIALKRKLEMKALRELDKSVLNSQHMFEVLAAMNHRSL ILLDECSKVLDNIHGCPLRIMINILQCKDLQYHNLDLFGGLADYVAATFDIWKFRKVL FILILFENLGRPVGLMDLFMKRIVEDPESLNMKNILSILHTYSSLNHVYKCNKEQFVE VMASALTGYLHTISSENLLDAVYSFCLMNYFPLAPFNQLLQKDIISELLTSDDMKNAYKL HTLDTCLKLDDTVYLRDIALSLPQLPRELPSSHTNAKVAEVLSSLLGGEGHFSKDVHLP NYHIDFEIRMDTNRNQVLPVSDVDTTSATDIQRVAVLCVSR SAYCLGSSHPRGFLAMKMRHLNAMGFHVILVNNWEMDKLEMEDAVTFLKTKIYSVEALPVAANVQSTQ

>sp|P98173|FAM3A\_HUMAN Protein FAM3A OS=Homo sapiens GN=FAM3A PE=1 SV=2

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DSWVFVGAQGVQNKSPFEQHVKNKSHSNKYEGWPEALEMEGCIPRRSTAS

>sp|Q9HB96|FANCE\_HUMAN Fanconi anemia group E protein OS=Homo sapiens GN=FANCE PE=1 SV=1

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GLEGLEDAAPPVELQLLHECSPSQMDLLCAQLQLPQLSDLGLLRLCTWLLALSPDLSLSNA  
TVLTRSLFLGRILSLTSSASRLTTALTSTFCAKYTYPVCSALLDPVLQAPGTGPAQTELL  
CCLVKMESLEPDAQVLMLGQILELPWKEETFLVLQSLLERQVEMTPEKFSVLMEKLCKKG  
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>sp|Q9NVI1|FANCI\_HUMAN Fanconi anemia group I protein OS=Homo sapiens GN=FANCI PE=1 SV=4

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LVNGKSLELLPIILTALATKKENLAYGKGVLSGEECKQLINTLCSGRWDQQYVIQLTSM  
FKDVPLTAAEEFVVEKALSMFSKMNLQEIPLVYQLLVSSKGSRKSVLEGI IAFPSAL  
DKQHNEEQSGDELDDVTVPSGELRHVEGTIILHIVFAIKLDYELGRELVKHLKVGQQGD  
SNNNLSPFSIALLSVTIRIQRFDQVLDLLKTSVVKSFKDLQLLQGSKFQLNLPVPHRSYV  
STMILEVVKNVHSDHVTQGLVELGFILMDSYGPKKVLGDKTIETSPSLSRMPNQHACK  
LGANILLETFKIHIMIRQEIIEQVLNRVTRASSPISHFLDLLSNIVMYAPLVLQSCSSK  
VTEAFDYL SFLPLQTVQRLLKAVQPLLKVSMSMRDCLILVRKAMFANQLDARKSAVAGF  
LLLLKNFKVLGSLSSQCSQSLSVSQVHVDVHSHYNSVANETFCEIMDSLRRCLSQQAD  
VRLMLEGYFDVLRNLSQLANSVMQTLLSQLKQFYEPKPDLLPPLKLEACILTQGDKISL  
QEPLDYLLCCIQHCLAWYKNTVIPLQQGEEEEEEAFYEDLDDILESITNRMKSELED  
FELDKSADFSQSTSIGIKNNICAFVMGVCEVLIEYNFSISSFSKNRFEDILSLFMCYKK  
LSDILNEKAGKAKTKMANKTSDSLLSMKFVSSLLTALFRDSIQSHQESLSVLRSSNEFMR  
YAVNVALQKVQQLKETGHVSGPDGQNPEKIFQNLCDITRVLLWRYTSIPTSVESGKKEK  
GKSISLLCLEGLKQIFSAVQQFYQPKIQQFLRALDVTDKEGEEREDADVSVTQRTAFQIR  
QFQRSLLNLLSSQEEDFNSKEALLVTVLTSLSKLEPSSPQFVQMLSWTSKICKENSRE  
DALFCKSLMNLLFSLHVSYSKSPVILLRDLSDIHLGLGDIQDVEVEKTNHFAIVNLRTA  
APTVCLLVLSQAQKVLVEVDWLITKLKGQVSQETLSEEASSQATLPNQPVKAIIMQLGT  
LLTFFHELVTALPSGSCVDTLKDLCKMYTTLTALVRYVLQVCQSSGGIPKNMEKLVKL  
SGSHLTPLCYSFISYVQNKSKSLNYTGEKKEKPAAVATAMARVLRETKIPNLIFAIEQY  
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PAKKKRKK

>sp|P49327|FAS\_HUMAN Fatty acid synthase OS=Homo sapiens GN=FASN PE=1 SV=3

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SRDPETLVGYSMVGCQRAMMANRLSFFDFRGP SIALDTACSSSLMALQAYQAIHSGQC  
PAAIVGGINVLLKPNTSVQFLRLGMLSPEGTCKAFDTAGNGYCRSEGVVAVLLTKSLAR  
RVYATILNAGTNTDGFKEQGVTFPSGDIQEQLIRSLYQSAGVAPESFEYIEAHGTGTVG  
DPQELNGITRALCATRQEPLLIGSTKSNMGHPEPASGLAALAKVLLSLEHGLWAPNLHFH  
SPNPEIPALLDGRQLVVDQPLPVRGGNVGINSFGFGGSNVHIIILRPNTQPPAPAPHATL  
PRLLRASGRTPEAVQKLEQGLRHSQDLAFLSMLNDIAAVPATAMPFRGYAVLGGERGGP



EVQQVPAGERPLWFI CSGMTQWRGMSLMRLDRFRDSILRSDEAVKPFGLKVSQLLLS  
TDESTFDDIVHSFVSLTAIQIGLIDLLSCMGLRPGIVGHSLGEVACGYADGCLSQEEAV  
LAAYWRGQCIKEAHLPPGAMAAVGLSWECKQRCPGVPACHNSKDTVITISGPQAPVFE  
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QWHSSLARTSSAEYNNNLVSPVLFQEALWHVPEHAVVLEIAPHALLQAVLKRGCLKPSCT  
I IPLMKKDHDRNLEFFLAGIGRLHLSGIDANPNALFPPVEFPAPRGTP LISPLIKWDHSL  
AWDVPAAEDEFNGSGSPSAAIYNIDTSSESPDHVLDHTLDGRVLPATGYLSIVWKT  
RALGLGVEQLPVVFEDVVLHQATILPKTGTVSLEVRLLASRAFEVSENGNLVVS  
GKVYQWDDPDPRLFDHPESPTPNPTEPLFLAQAEVYKELRLRGYDYGPHFQGI  
LEASLEGDSGRLWKDNWVSFMDTMLQMSILGSAKHGLYLPTRVTAIHIDPATHRQ  
KLYTLQDKAQVADVVSRLRVTVAGGVHISGLHTESAPRRQEQQVP ILEKFCF  
TPHTEEGCLSERAALQEELQLCKGLVQALQTKVTQQGLKMVVPGLDGAQIPR  
DPSQQELPRLLSAACRLQLNGNLQLELAQVLAQERPKLPEDPLLSGLLDSP  
ALKACLDTAVENMPSLKMKVVEVLAGHGHLYSRIPGLLSPHPLLQLSYTATDR  
HPQALEAAQAEQQHDAQGWDPADPAPSALGSADLLVCNCAVALGDPASALS  
NMVAALREGGFLLLHTLLRGHPLGDIVAFLTSTEPQYGGGILSQDAWESL  
FSRVSLRLVGLKKSFGSTLFLCRRPTPDSPIFLPVDDTSFRWVESLKGIL  
ADESSRPVWLKAINCATSGVGLVNLCLRREPGGNRLRCVLLSNLSSTSHV  
PEVDPGSAELQKVLQGLVMNVYRDGAWGAFRHFLLEEDKPEPTAHAFVSTL  
TRGDLSSIRWVCSSLRHAQPTCPGAQLCTVYYASLNFRDIMLATGKLS  
PDAIPGKWTSQDSLLGMEFSGRDASGKRVMLVPAKGLATSVLLSPDFLWD  
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AIALSLGCRVFTTVGSAEKRAYLQARFPQLDSTS FANSRDTSFEQHVL  
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FLKNVTFHGVLLDAFFNESSADWREVWALVQAGIRDGVVRPLKCTV  
FHGAQVEDAFRYMAQKGHIGKVVVQVLAEEPEAVLKGA  
KPKLMSAISKTFCPAHKSYIIAGGLGGFLELAQWLIQ  
RGVQKLVLT SRSGIRTYQAKQVRRWRRQGVQVQV  
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LENQTPEFFQDVCKPKYSGTLNLDRTREACPELDYFV  
VFSVSCGRGNAGQSNYGFANSAMERICERRHEGLP  
GLAVQWGAIGDVGILVETMSTNDTIVSGTLPQRMAS  
CLEVLDLFLNQPHMVLSSFVLAEEAAAYRDRDSQRDL  
VEAVAHILGIRDLAAVNLDSSLADLGLDSLMSV  
EVRQTLERELNLVLSVREVRLTLRKQLQELSSKA  
DEASELACPTPKEDGLAQQTQLNRLSLLVN  
PEGPTLMRLNSVQSSERPLFLVHPIEGSTTVFHS  
LASRLSIPTYGLQCTRAAPLDSIHSLAAYYIDC  
IRVQVQPEGPYRVAGYSYGACVAFEMCSQLQAQ  
QSPAPTHNSLFLFDGSPTYVLAYTQSYRAKLTP  
GCEAAEAEIAICFFVQQFTDMEHNRVLEALLP  
LKGLEERVAAAVDLIIKSHQGLDRQELSFAARS  
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>sp|Q8NFZ0|FBH1\_HUMAN F-box DNA helicase 1 OS=Homo sapiens GN=FBX018 PE=1 SV=2

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PEFFLAGKQPCTNDMAKSNSVGQDSCQDSE  
GMIFPAESSCALPQEGSAGPGSPGSAPPS  
RKRSWSSEESNQATGTSRWDGVSKKAPRHLS  
VPCTRPREARQEAEDSTSRLSAESGETDQD  
AGDVGPDPIDPSYYGLLTLPQCEALSHICSL  
PSEVLRHVFAFLPVEDLYWNLSLVC  
HLWREIISDPLFIPWKLYHRYLMNEEQAVS  
KVDGILSNCGIEKESDLCVLNLIRYTAT  
TKCSPSVDPERVLWSLRDHPLPEAEACVRQ  
HLPDYAAAGGVNIWALVAAVVLLSSSVND  
IQRLLFCLRRPSTVTMPDVTETLYCIAVLLY  
AMREKGINISNRIHYNIFYCLYLQENSC  
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LILNHKMEPLQVVKIMAFAGTGKTSTLV  
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RVFPSNVICKTFHSMAYGHIGRKYQSK  
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SVLAEGKGGFIRAKLVCKTLENFFASADEELTIDHVPIWCKNSQGQRMVEQSEKLNGL  
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QLPHFRVESFSEDEWNLLYVAVTRAKRLIMTKSLENILTLAGEYFLQAE LTSNVLKTGV  
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>sp|Q9HAH7|FBR5\_HUMAN Probable fibrosin-1 OS=Homo sapiens GN=FBR5 PE=1 SV=3

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VPSGLSQKGTQIPDHFPRPLRPGKWCAMHVRVAYMILRHQEKMGDSHKLDFRNDLLPC  
LPGPYGALPPGQELSHPASLTATGAVHAAANPFTAAPGAHGPFLLSPSTHIDPFGRPTSF  
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PEAARTPGSDKERPERREPSITKEEKDRDLPFSRQRLVSPATPKARAGEEGPRPTKES  
VRVKEERKEEAAAAAAAAAAAAAAAAAATGPQGLHLLFERPRPPPFLGPSPPDRCAGFL  
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TPHLLSKTPPGALLGAPPPLVPAPRPSSPPRGPGRADR

>sp|Q9HCM7|FBSL\_HUMAN Fibrosin-1-like protein OS=Homo sapiens GN=FBSL1 PE=1 SV=4

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ESETCPAEPSENRRPLEAGSPGQDLEPACDGARKVPLQPSKQMKVTVSKGGDRSDDDSD  
VLEATSSRDPLSDSSAHAVSGRGYSCDSGSPDDKASVGSEKLFAPGTDKGALEKSEAK  
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PPPPQPRGLLPTHVPASLGAFAGHSQAAANGLHGLSRSSAPLGLGKHVLSLPHGPGPHL  
STSHLALRSQAQHLHAAMFAAPPTLPPPPALPASSLVLPGHADHELLRQELNTRFLVQ  
SAERPGASLPGALLRAEFHQHQTHQHQTHQHQHTFAPFPAGLPPTPPAAPPFFDK  
YAPKLDSPYFRHSSVSFFPSFPPAIPGLPTLLPHPGPFGLQGAQPKVSDPYRAVVKVS  
TCWEGPWQGRTLVPPGRPRGARDSRLQKTWVGVAAPLSASILSQKPGRWCAVHVQIAW  
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SNPFGPSAHPGSFLPTGPTLDPFSRPSTFGGLGSLSSHAFGGLGSHALAPGGSIFAPKEG  
SSVHGLPSPHEAWNRLHRAPPSFPAPPPWPKSVDAERVSALTNDREPDNGKEEQERDLL  
EKTRLLSRASPATPAGHPVSGLLLRAQSELGRSGAPAEREAEPVKESRSPAKEEAAKMP  
ARASPPHKAAPGDVKVKEERGEDEASEPPAGGLHPAPLQLGLGRERLGA PGFAWEPFRG  
LELPRRAFPAAPAPGSAALLEPPERPYRDRPHGYSPERLRGELERARAPHLPPAAPAL  
DGALLPSLGALHFPRLSPAALHNGLLARTPPAAALGAPPPLVTAAGPPTPPGPPRSRTT  
PLGGLGPGGEARDYSPSRNPPEVEAR

>sp|Q8IX29|FBX16\_HUMAN F-box only protein 16 OS=Homo sapiens GN=FBX016 PE=2 SV=1

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NLAELDQLWMLKCLRFNWYINFSPTPFEQGIWKKHYIQMVKELHITKPKTPPKDGFVIAD  
VQLVTSNSPEEKQSPLSAFRSSSSLRKKNSGEKALPPWRSSDKHPTDIIRFNYLDNRDP  
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>sp|Q8N4B4|FBX39\_HUMAN F-box only protein 39 OS=Homo sapiens GN=FBX039 PE=2 SV=1

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LENLCENASTLRTINIKCHVDPHGQVIWGM SWAKLARQATNLKVNFFFERIMKYERLAR  
ILLQEIPIRSISLRSCYFSDPDCSMRPTLID LLPTFRHTLQKLTCEFNNHESLDEELHL  
LIISCRKLFYFKIWAFLDVSFVERILKSQKER QCALRVFKARIYTNRYETNEEDKTLQEI  
YRKYRKLI ESELSYFVIVYSVM

>sp|Q8TF61|FBX41\_HUMAN F-box only protein 41 OS=Homo sapiens GN=FBX041 PE=2 SV=5

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ASGFPLAPEPAALLAVPGARREVFESTSFQ GKEQAAGPSAAPHLLHHHHHHAPLAHFPG  
DLVPASLPCEELAEPLVPA A AARYALREIEIPLGELFARKSVASSACSTPPPGPGPGPC  
PGPASASPSPADVAYEEGLARLKIRALEK LEVD RRLERLSEEVEQKIAGQVGR LQAE  
LERKAAELETARQESARLGREELEERASELS RQVDVSVELLASLKQDLVHKEQELS RK  
QQEVVQIDQFLKETAAREASAKLRLQQF IEELLERADRAERQLQVISSSCGSTPSASLGR  
GGGGGAGPNARGPGRMREHHVGPAVPNTY AVSRHGSSPSTGASSRVP AASQSSGCYDSD  
SLELPRPEEGAPEDSGPGGLGTRAQAANGG SERSQPPRSSGLRRQAIQNWQRRPRRHSTE  
GEEGDVSDVGSRTTESEAEGLDAPRPGP AMAGPLSSCRLSARPEGGSGRGRRAERVSPS  
RSNEVISPEILKMRAALFCIFTYLDTRTLL HAAEVC RDWRFVARHPAVWTRV LLENARVC  
SKFLAMLAQWCTQAHS LTLQNLKPRQRGK KESKEEYARSTRGCLEAGLESLLKAAGNLL  
ILRISHCPNILTDRSLWLASCYCRALQAV TYRSATDPVGHEVIWALGAGCREIVSLQVAP  
LHPCQQPTRFSNRCLQMIGRCWPHLRALG VGGAGCGVQGLASLARNCMRLQVLELDHVSE  
ITQEVAAEVCREGLKGLEMLVLTATPVT PKALLHFNSICRNLSIVVQIGIADYFKEPSS  
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>sp|Q5FWF7|FBX48\_HUMAN F-box only protein 48 OS=Homo sapiens GN=FBX048 PE=2 SV=1

MHKNSKRNNLRVSHTEANSVD AEKEKNESQNNFFELLPAEITFKIFS QLDIRSLCRASL  
TCRSWNDTIRNSDSLWKPHCM TVRAVCRREIDDDLESGYSWRVILLRNYQKSKVKHEWLS  
GRYSNICSPISLPEKIMYPM DADTWGEILEAELER

>sp|P13804|ETFA\_HUMAN Electron transfer flavoprotein subunit alpha, mitochondrial OS=Homo sapiens GN=ETFA PE=1 SV=1

MFRAAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNTITAATRLGGEVSCLVAGTKC  
DKVAQDLCKVAGIAKVLVAQH D VYKGLLPEELTPLILATQKQFN YTHICAGASAFGKNLL  
PRVAAKLEVAPISDIIAIKSPDTFVRTIYAGNALCTVKCDEKVKVFSVRGTSFDAAATSG  
GSASSEKASSTSPVEISEWLDQKLTKSDR PELTGAKVVVSGGRGLKSGENFKLLYDLADQ  
LHAAVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIAVGISGAIQHLAGMKDSKTIVAIN  
KDPEAPIFQVADYGIVADL FKVVP EMTEILKKK

>sp|O95677|EYA4\_HUMAN Eyes absent homolog 4 OS=Homo sapiens GN=EYA4 PE=1 SV=2

MEDSQDLNEQSVKKTCTESDVSQS QNSRSMEMQDLASPHTLVGGDTPGSSKLEKSNLSS  
TSVTTNGTGGENMTVLNTADWLLSCNTPSSATMSLLAVKTEPLNSSETTATTGDGALDTF  
TGSVITSSGYSRSHAQYSPQLYPSKPYPHILSTPAAQTMSAYAGQTQYSGMQQPAVYTA  
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PGSSFAPSSTIYANNSVSNSTNFSGSQQDYPSYTA FGQNYAQYYSASTYGAYMTSNNTA  
DGTPTSSTYQLQESLPGLTNQPG EFDTMQSPSTPIKDL DERTCRSSGSKSRGRGRKNNP  
SPPPDSDLERV FVWDLDETIIVFHSLLTGSYAQKYGKDPPMAVTLGLRMEEMIFNLADTH

LFFNDLEECDQVHIDDVSSDDNGQDLSTYSFATDGFHAAASSANLCLPTGVRGGVDWMRK  
LAFRYRRVKELYNTYKNNVGGLGPAKRDAWLQLRAEIEGLTDSWLTNALKSLSIISTR  
NCINVLVTTTQLIPALAKVLLYSLGGAFPIENIYSATKIGKESCFERIMQRFGRKVYVV  
IGDGVEEEQAARKHNMPFWRISSHDLLALHQALELEYL

>sp|Q5T1H1|EYS\_HUMAN Protein eyes shut homolog OS=Homo sapiens GN=EYS PE=1 SV=5

MTDKSIVILSLMFHSSFINGKTCRRQLVEEWHPPQSSYVNVNLTENICLDFYRDCWFL  
GVNTKIDTSGNQAVPQICPLQIQLDILVISSEPSLQFPEINLMNVSETSFVGCQNTTT  
EDQLLFGCRLKGMHTVNSKWLSVGTHYFITVMASGPSPCPLGLRLNVTVKQFCQESLSS  
EFCSGHGKCLSEAWSKTYSCHCQPPFSGKYCQELDACSFKPCKNNGSCINKRENWDEQAY  
ECVCHPPFTGKNCSEIIGQCQPHVCFHGNCNITSNSFICECDEQFSGPFCEVSAKPCVS  
LLFWKRGICPNSSSAYTYECPKSSSQNGETDVSEFSLVPCQNGTDCIKISNDVMCICSP  
IFTDLLCKSIQTSCEFSPLRNNATCKKCEKDYPSCISGFTEKNCEKAIDHCKLLSINCL  
NEEWC FNII GRFKYVCIPGCTKNPCWFLKNVYL I HQHLCYCGVTFHGICQDKGPAQFEYV  
WQLGFAGSEGEKCGVIDAYFFLAANCTEDATYVNDPEDNNSSCWFPHEGTKEICANGCS  
CLSEEDSQEYRYLCFLRWAGNMYLENTTDDQENECQHEAVCKDEINRPRCSCSLSYIGRL  
CVVNVDYCLGNHSISVHGLCLALSHNCNCSGLQRYERNICEIDTEDCKSASCKNGTTSTH  
LRGYFFRKCVPFGKGTQCEIDIDECA SHPCKNGATCIDQPGNYFCQCVPPFKVVDGFSCL  
CNPGYVGIRCEQDIDDCLNACEHNSTCKDLHLSYQCVCLSDWEGNFCEQESNECKMNPC  
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YTGGFCHQRYNLCDLLHNPCRNSTCLALVDANQHCICREEFEGKNCEIDVKDCLFLSCQ  
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PFCELDVNKCKISPCLDEENCVYRTDGYNCLCAPGYTGINCEINLDECLSEPCLHDGVC I  
DGINHYTCDCKSGFFGTHCETNANDCLSNPCLHGRCTELINEYPCSCDADGTSTQCKIKI  
NDCTSI PCMNEGFCQKSAHGFTCICPRGYTGAYCEKSIDNCAEPELNSVICLNGGICVDG  
PGHTFDCRCLPGFSGQFCEINECSSPCLHGADCEDHINGYVCKCQPGWSGHHCENEL  
ECIPNSCVHEL MENEPGSTCLCTPGFMTCSIGLLCGDEIRRITCLTPIFQRTDPISTQT  
YTIPPSETLVSSFPSIKATRIPAIMDTYPVDQGPQGTGIVKHDILPTTGLATLRISTPLE  
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GFFFPDRRARTPFIMSSLSMDFIFPTQSLLFENCQTVALSATPTTSVIRSI PGADIELNR  
QSLLSRGFLLIAASISATPVVSRGAQEDIEEYSADSLISRREHWRLSPSMSPIFPAKVI  
ISKQVTILNSSALHRFSTKAFNPSEYQAITEASSNQRLTNIKSQAADSLRELSQTCATCS  
MTEIKSSREFSDQVLHSKQSHFYETFWMNSAILASWYALMGAQTITSGHSFSSATEITPS  
VAFTEVPSLFP SKKSAKRTILSSSLEESITLSSNLDVNLCLDKTCLSIVPSQTISSDLMN  
SDLTSKMTTDELSVSENILKLLKIRQYGITMGPTVLNQESLLDMEKSKGSHTLFLKLHPS  
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ALS IQTSSSM SVIRPDWPFYFTDYMTSLKKEVKTSSEWSKWELQPSVQYQEFPTASRHLPF  
TRSLTLSSLESILAPQRLMISDFSCVRYYGDSYLEFQNVALNPQNNISLEFQTFSSYGLL  
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SVCQQDVCHNGGTCHAI FLSSGIVSFQCDCPLHFTGRFCEKDAGLFFPSFNGNSYLELPF  
LK FVLEKEHNRTVTIYLTIKTNSLNGTILYSNGNCGKQFLHLFLVEGRPSVKYGCNSQ  
NILTVSANYSINTNAFTPITIRYTTVPVGSPPVCMIEMTADGKPPVQKKDTEISHASQAY  
FESMFLGHIPANVQIHKKAGPVYGFRCILDQVNNKEFFIIDEARHGKNIENCHVPWCA

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LIFFTGQKGHGLNGDDFLAVGLLNGSVVYSYNLGSGLIASIRSEPLNLSLGVHTVHLGKFF  
QEGWLKVDHKNKSI IAPGRLVGLNVFSQFYVGGYSEYTPDLLPNGADFKNGFQGCIFTL  
QVRTEKDGHFRGLGNPEGHPNAGRSVGQCHASPCSLMKCGNGGTCIESGTSVYCNCTTGW  
KGSFCTETVSTCDPEHDPHHC SRGATCISLPHGYTCFCPLGTTGIYCEQALILIVILEK  
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DGINVTEKASTKMSSLDTNTDFYIGGVSSLNLVNPMAIENEPVGFQGCIRQVIINNQELQ  
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LCLHQSLCIPDQSFYSCLCTLGWVGRYCENKTSFSTAKFMGNSYIKYIDPNYMRNLQF  
TTISLNFSTTKTEGLIVWMGIAQNEENDFLAIGLHNQTLKIAVNLGERISVPMSYNNGT  
CCNKWHHVVIQNTLIKAYINNSLILSEDIDPHKNFVALNYDGICYLGGFEYGRKVNIV  
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>sp|Q8N5W9|F101B\_HUMAN Filamin-interacting protein FAM101B OS=Homo sapiens GN=FAM101B  
PE=1 SV=1

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DAAAATPAAPSPASLPLAPGCALRLCPLSFGEGVEFDPLPPEVRYTSLVKYDSEHFI  
DVQLPLGLAVASCSQTVTCVPNGTWRNYKAEVRFEPHRRPTRFLSTTIVPKYPKAVYTT  
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>sp|Q70Z53|F10C1\_HUMAN Protein FRA10A1 OS=Homo sapiens GN=FRA10A1 PE=1 SV=3

MHGHGGYDSDFSDDERCGESSKRKKRTVEDDLLLQKPFQKEKHGKVAHKQVAAELLDREE  
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DEMDMTWEKRLAKKYDKLFKEYCIADLSKYKENKFGFRWRVEKEVISGKGQFFCGNKYC  
DKKEGLKSWEVNFYIEHGEKRNALVKLRQCQESIKLNFHHRKEIKSKKRKDKTKKDC  
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>sp|Q9BWD3|F127B\_HUMAN Protein FAM127B OS=Homo sapiens GN=FAM127B PE=1 SV=3

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>sp|Q49AJ0|F135B\_HUMAN Protein FAM135B OS=Homo sapiens GN=FAM135B PE=2 SV=2

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EQQLRDVAGAPMVSSRTLGLHFHPRNGLHHQVPVMFDYFHL SVISVTVHAALVALQQPLI  
SFTRPGRGSWLKGKGPDTGQEQSIIISLENLVFGAGYCKPTSSEGSFYITSENCMQHAHKW  
HRDLCLLLLHAYRGLRLHFLVIMRDIPELPHTELEALAVEETLSQLCSELQMLNNEKIA  
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HNSVYPNFDVPVTSPTIMNLKDKEDNCMVNSNLSFREDLVLSSTIKPSQMSDEEVIRCP  
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EAAEDADTKQQDGGFAEPSDMHKSQSGSPGSCSQLCGDSGTDAGADHPLVEIVLDADNQQ  
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CIMDDTAFNRGVNAFPEAKHKAGTVCTVTHSVHSQVLKNQELKAGTSIMGSHLTAETF  
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LVVCVHGLDGNADLRLVKTFIELGLPGGKLDFLMSEKNQMDTFADFDTMDRLLDEIIQ  
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VSTGLWLMQKLKSGSLLQLTRFDNADLRKCFLYQLSQKTGLQYFKNVVLVASPQDRYVP  
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>sp|A5PLN7|F149A\_HUMAN Protein FAM149A OS=Homo sapiens GN=FAM149A PE=2 SV=2

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DGDSDGEARGLSEGRRRRHGFTVRSKDSLPTHFTRNVQKAIDKYTCKSLSSFSSSGSHTP  
TGAHTSWSGSATQSSTTGSSTERGSVYSWRDDEFDEASSQSVQRLLWEVEEMLFEGKVP  
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RELCISGSQIVPAALSASALPGPDDTGADLTARSSLEEEVYHVDGKIEEYFAFDRKEDD  
DECLEQKPAQPGRWKRLGLPPVSPRDCVKDAVAEEVFDHVWTNMVELLEELIRKHWETT  
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SFYSDMNGVMTIQAKPLQRRPAYFADRTQNEKEDKASGGGAGALSSAPHLGRASDTHGL  
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LVTETRGQNTAVPGCRLVSYRGRHLQNRVLSAMPDGTSLRRLRERTATLERLSRPSTTHT  
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>sp|POC7A2|F153B\_HUMAN Protein FAM153B OS=Homo sapiens GN=FAM153B PE=2 SV=1

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CERDEGSLGKPLCPPEILSETLPGSVKKRVCFPSEDHLEEFIAEHLPEASNQSLLTVAHA  
DTGIQTNGDLEDLEEHGPGQTVSEEATEVHMMEGDPDTLAELLIRDVLQELSSYNGEEED  
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TVSEEATGVHMMQVDPATLAKLEDSTITGSHQMSASPSSAPAEATEKTKVEEVKTR  
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>sp|075949|F155B\_HUMAN Transmembrane protein FAM155B OS=Homo sapiens GN=FAM155B PE=2 SV=2

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EACSNICIEAYQRLDRHAQEKYDEFDLVLHKYLQAEYSIRSCTKGCKAVYKAWLCSEYFS  
VTQEQECQRWVPCKQCYCLEVQTRCPFILPDNEEMVYGGLPGFICTGLLDTSKRLKCCD  
VQWVSCEAKKKKKFKESEAPKTHQQQFHHSYFHYYHQYHHYHPHDPGRVSNKPALLP  
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>sp|Q6UWV7|F159A\_HUMAN Membrane protein FAM159A OS=Homo sapiens GN=FAM159A PE=2 SV=2

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SIGALIGLSVAAVLLAFIVTACVLCYLFISSKPHTKLDLGLSLQTAGPEEVSPDCQGVN  
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PNPDL CGPVP

>sp|Q5T6X4|F162B\_HUMAN Protein FAM162B OS=Homo sapiens GN=FAM162B PE=2 SV=1  
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>sp|Q92567|F168A\_HUMAN Protein FAM168A OS=Homo sapiens GN=FAM168A PE=1 SV=2  
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PPYSPSPNPYQTAMYPIRSAYPQQLYAAQYAYTQPVYAAQPHVHHHTTVVQPNIPSAI  
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PPHW

>sp|Q9Y6X4|F169A\_HUMAN Soluble lamin-associated protein of 75 kDa OS=Homo sapiens  
GN=FAM169A PE=1 SV=2

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DQTQKILALFAPEDSLTAVALYLADQWWAIDDIVKTSVPSREGLKQVSTLGERVVLYVLN  
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>sp|Q05DH4|F16A1\_HUMAN Protein FAM160A1 OS=Homo sapiens GN=FAM160A1 PE=2 SV=2

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>sp|Q15884|F1892\_HUMAN Protein FAM189A2 OS=Homo sapiens GN=FAM189A2 PE=1 SV=3

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DESQISAEAEADHGRIPIPDFFVPPVPPPSYFATFYSCTRPMNRRMVGPDVIPLPHIYGA  
RIKGVFVFCPLDPPPPYEAVVSQMDQEQGSSFQMSSEGSEAAVIPLDLGCTQVTQDGDIPN  
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KSVLKSDEEHMEEAITSASFLEQIMAPLQPSTSTRAHKLPSRRQPGLLHLQSCGDLHTFTP  
AGRPRAERRPRRVEAERPHSLIGVIRETVL

>sp|P81408|F189B\_HUMAN Protein FAM189B OS=Homo sapiens GN=FAM189B PE=1 SV=2

MMPSPSDSSRSLTSRSTRGLTHLRLHRPWLQALLTLGLVQVLLGILVVTFSMVASSVTT  
TESIKRSCPSWAGFSLAFSGVVGIVSWKRPFTLVISFFSLLSVLCVMLSMAGSVLSCKNA  
QLARDFQQCSLEGKVCVCCPSVLLRPCPESGQELKVAPNSTCDEARGALKNLLFSVCGL  
TICAAIICTLSAIVCCIQIFSLDLVHTLAPERSVSGPLGPLGCTSPPPAPLLHTMLDLEE  
FVPPVPPPPYPPEYTCSETDAQSITYNGSMDSPVPLYPTDCPPSYEAVMGLRGDSQAT  
LFDPQLHDGSCICERVASIVDVSMDSGSLVLSAIGDLPGGSSPSEDSCLLELQGSVRSVD  
YVLFRSIQRSRAGYCLSLDCGLRGPFEEsplPRRPRAARSYSCSAPEAPPPLGAPTAAR  
SCHRLEGWPPWVGPCFPELRRRVPRGGRPAAAPPTRAPTRRFSDSSGSLTPPGHRPPHP  
ASPPPLLLPRSHSDPGITTSDDTADFRDLYTKVLEEEAASVSSADTGLCSEACFLRLARC  
PSPKLLRARSARKRRPVPTFQKVPLPSGPAPAHSLGDLKGSWPGRGLVTRFLQISRKAPD  
PSGTGAHGHKQVPRSLWGRPGRESLHLRSCGDLSSSSSLRRLLSGRRLERGTRPHSLSLN  
GGSRETGL

>sp|Q6ZSG2|F196A\_HUMAN Protein FAM196A OS=Homo sapiens GN=FAM196A PE=2 SV=1

MVSKDTGKCILTTSESEVEPAACLALEMKYALDPNRQIKKRNKALQVRFKDICEAQNEQR  
DTQLSSGQLGEKREAKPVSCRAAYRKYMTVPARRSIPNVTKSTGVQTSPLKCKYQTFPL  
DRKKGNLKSPLAADPFKSQNGFLTDAKEKNEAGPMEEARPCGAGRVHKTTALVFHSNQH  
MNTVDQPLGVNCTEPCKSPEPLSYGEAALQNSTRPPSEEPDYQLLGRAKQDRGRPNSEEP  
APPALRRVFKTEVATVYAPALSARAPEPGLSDSAAASQWSLCPADDERRRATHLNLQAP  
SETALACSPPMQCLSPECSEQPSQTHTPPGLGNQPSPTAVAAGEECQRIVPHTEVVDLKA  
QLQMMENLISSSQETIKVLLGVIQELEKGEAHREGLSYRTGQDTANCDTCRNSACIIYSV  
ELDFKQQEDKLQPVLRLHPIEETQVIPSPYSQETYSSTPKQKSKTESKKHGRWKLWFL

>sp|Q7Z5A9|F19A1\_HUMAN Protein FAM19A1 OS=Homo sapiens GN=FAM19A1 PE=1 SV=1

MAMVSAMSVVLYLWISACAMLLCHGSLQHTFQQHHLHRPEGGTCEVIAAHRCCNKNRIEE  
RSQTVKCSCLPGKVAGTTRNRPSCVDASIVIGKWWCEMEPCLEGECKTLPDNSGWMCAT  
GNKIKTTRIHPRT

>sp|A6NFA0|F205C\_HUMAN Protein FAM205C OS=Homo sapiens GN=FAM205C PE=3 SV=2



MLSPTFVLWDVGYPITYGSICIIALIIWQVKKSCQKLSLVPNRSCCRHRRVQQKSGDR  
TSRARRTSQEEAEKLWKLLFLMKSQGWLPQEGSVRRILCADPCCQICNVMALEIKQLLAG  
ENNQISLTSLGPSQGSSCLEALSTSSVSFKHSQDLGSPKSKELSLASVTPTLSQLMDQKS  
LTQSAARSAGADSVQDSWADHFQRGQRSQVPAVSQVMGSLSSNFEPGIPLSQQERTKNN  
SKFVLENQEAPEVGLDNMKMLFLHWINPEMKDRRHEESILLSKAETVTQDRTKNIEKSPT  
VTKDHVWGATTQKTTEDEPAQPPSTEEGLIFCDAPSA

>sp|Q8N7L0|F216B\_HUMAN Protein FAM216B OS=Homo sapiens GN=FAM216B PE=2 SV=1  
MGQNWKRRQKQLWNPQLPFIRVPPSIYDTSLLKALNQGQQRIFYSIMRIYNSRPQWEALQ  
TRYIHSLSHQQLGYITQREALSYALVLRDSTKRASAKVAPQRTIPRKTSAMTRRCPSVL  
PVSVVLPRASQSKRRQVLRN

>sp|Q86W67|F228A\_HUMAN Protein FAM228A OS=Homo sapiens GN=FAM228A PE=2 SV=1  
MAATKTASYDEHFRPEKLEWPEPESVSLMEVLAREDEIDEAVCAILFKENSIVKVTVPFF  
VDPLFQRQEQVEDEERTGLQCETGKRHSIKELEEIEKARLHASSPYFTFTSHCVIPKEWH  
KASARARSKTYKYSPEKLIYADKKQKRKEKKTADLSQAAFERQFLSSKLSQKNKVGGERKG  
LVSRLGRGWHAGLCSTHEQHILVPE

>sp|Q9Y4F9|FA65B\_HUMAN Protein FAM65B OS=Homo sapiens GN=FAM65B PE=1 SV=4  
MLVGSQSFSPGGPNGIIRSQSFAFGSGLQERRSRCNSFIENSSALKKPQAKLKKMHNLGH  
KNNNPKEPQPKRVEEVYRALKNGLDEYLEVHQTELDKLTAKLDMKRNRLGVLYDLDK  
QIKTIERYMRRLEFHIISKVDELYEAYCIQRRQLQDGASKMKQAFATSPASKAARESLEIN  
RSFKEYTENMCTIEVELENLLGEFSIKMKGLAGFARLCPGDQYEIFMKYGRQRWKLKGI  
EVNGKQSWDGEETVFLPLIVGFISIKVTELKGLATHILVGSVTCETKELFAARPQVVAVD  
INDLGTIKLNLEITWYPFDVEDMTASSGAGNKAALQRRSMYSQGTPETPTFKDHSFFR  
WLHPSDPKPRRLSVLSALQDTFFAKLHRSRSFSDLPSLRPSPKAVLELYSNLPDDIFENG  
KAAEEKMPLSLSFSDLPNGDCALTSHTGSPSNSTNPEITITPAEFNLSSLASQNEGMD  
TSSASSRNSLGEGQEPKSHLKEEDPEEPRKPASAPSEACRRQSSGAGAEHLFLENDVAEA  
LLQESEEASELKPVELDTSEGNITKQLVKRLTSAEVPMATDRLLSEGSVGGSEGCERSFL  
DGSLEDAFNGLLLALEPHKEQYKEFQDLNQEVNMLDDILKCKPAVSRSSSLSTVES  
LESFDFLNTSDFDEEDGDEV CNVGGGADSVFSDTETEKHSYRSVHPEARGHLSEALTE  
TGVGTSVAGSPLPLTTGNESLDITIVRHLQYCTQLVQQIVFSSKTPFVARSLLEKLSRQI  
QVMEKLAASVDENIGNISSVVEAIPFHKLSLLSFWTKCCSPVGVYHSPADRVMKQLEA  
SFARTVNKEYPGLADPVFRTLVSQILDRAEPLSSSLSSSEVTVFQYYSYFTSHGVSDLE  
SYLSQLARQVSMVQTLQSLRDEKLLQTMSDLAPSNLLAQGEVLRTLALLLTREDNEVSEA  
VTLYLAAASKNQHFREKALLYCEALTKTNLQLQKAACLALKILEATESIKMLVTLCQSD  
TEEIRNVASETLLSLGEDGRLAYEQLDKFPRDCVKVGGRGHTEVATAF

>sp|H0Y354|FA72C\_HUMAN Protein FAM72C OS=Homo sapiens GN=FAM72C PE=3 SV=2  
MSTNICSFKDRCVSILCKFKQVLSSRGMKAVLLADTEIDLFSTDIPPTNAVDFTGRCY  
FTKICKCKLKDIACLKCGNIVVYHIVPCSSCLLSCNNRHFWMFHSQAVYDINRLDSTGV  
NVLLRGNLPEIEESTDEEDVLNISAEECIR

>sp|Q8IVS2|FABD\_HUMAN Malonyl-CoA-acyl carrier protein transacylase, mitochondrial  
OS=Homo sapiens GN=MCAT PE=1 SV=2  
MSVRVARVAWVRGLGASYRRGASSFPVPPGAQGVAELLRDATGAEAAAPWAATERRMPG  
QCSVLLFPGQGSQVVGMRGLLNYPVRVRELYAAARRVLGYDLLESLHGPQETLDRTVHC  
QPAIFVASLAAVEKLHHLQPSVIENCVAAGFSVGEFAALVFAGAMEFAEGLYAVKIRAE  
AMQEASEAVPSGMLSVLGQPQSKFNFACLEAREHCKSLGIENPVCEVSNYLFPDCRVISG

HQEALRFLQKNSSKFHFRTRMLPVSGAFHTRLMEPAVEPLTQALKAVDIKKPLVSVYSN  
VHAHRYRHPGHIHKLLAQQLVSPVKWEQTMHAIYERKKGRGFPQTFEVGPGRQLGAILKS  
CNMQAWKSYSADVLTLEHVDLDPQEPPR

>sp|P12104|FABPI\_HUMAN Fatty acid-binding protein, intestinal OS=Homo sapiens GN=FABP2  
PE=1 SV=2

MAFDSTWKVDRSENYDKFMEKMGVNIVKRKLAHDNLKLTITQEGNKFTVKESSAFRNIE  
VVFELGVTFNYNLADGTELRGTSLEGNKLGKFKRTDNGNELNTVREIIGDELVQTYVY  
EGVEAKRIFKKD

>sp|Q9Y256|FACE2\_HUMAN CAAX prenyl protease 2 OS=Homo sapiens GN=RCE1 PE=1 SV=1

MAALGGDGLRLLSVSRPERPPESAALGGLGPGGCCWVSFSCSLACSIVGSLYVWKSEL  
PRDHPAVIKRRFTSVLVSSSPLCVLLWRELGTGIQPGTSLLTLMGFRLEGIFPAALLPL  
LLTMILFLGPLMQLSMDCPCDLADGLKVVLAAPRSWARCLTDMRWLRNQVIAPLTEELVFR  
ACMLPMLAPCMGLGPAVFTCPFFGVAFHHHIEQLRFRQSSVGNIFLSAAFQFSYTAVF  
GAYTAFLFIRTGHLIGPVLCHSFNYMGFPAVCAALEHPQRRPPLAGYALGVGLFLLLLQ  
PLTDPKLYGSLPLCVLLERAGDSEAPLCS

>sp|O60427|FADS1\_HUMAN Fatty acid desaturase 1 OS=Homo sapiens GN=FADS1 PE=1 SV=3

MAPDPVAAETAAGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGSRVIS  
HYAGQDATDPFVAFHINKGLVKKYMNSLLIGELSPEQPSFEPTKNKELTDEFRELRAVE  
RMGLMKANHVFFLLYLLHILLDGAAWLTLWVFGTSFLPFLCAVLLSAVQAQAGWLQHD  
FGHLSVFSTSKWNHLLHHFVIGHLKGAPASWWNHMHFQHHAKPNCFRKDPDINMHPFFFA  
LGKILSVELGKQKKKYMPYNHGHQYFFLIGPPALLPLYFYFYFVIQRKKWVDLAWMI  
TFYVRFFLTYPVLLGLKAFLGLFFIVRFLESNWVVTQMNHIMHIDHNRMDWVSTQL  
QATCNVHKSANFDFSGHLNFQIEHHLFPTMPRHNHVKVAPLVQSLCAKHGIEYQSKPLL  
SAFADIIHSLKESGQLWLDAYLHQ

>sp|O95864|FADS2\_HUMAN Fatty acid desaturase 2 OS=Homo sapiens GN=FADS2 PE=1 SV=1

MGKGGNQGEAAEREVSPTFSWEEIQKHNLRDTRWLVIDRKVYNITKWSIQHPGGQRVI  
GHYAGEDATDAFRAFHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKTA  
EDMNLFKTNHVFFLLLLAHIIALESIAWFTVFYFGNGWIPTLITAFVLATSQAQAGWLQH  
DYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPNIFHKDPDVNMLHVHV  
LGEWQPIEYGGKKLKYLPYNHGHQYFFLIGPPLLIPMYFYQYQIIMTMIVHKNWVDLAWAV  
SYYIRFFITYIPFYGILGALLFNFIRFLESHWFVWVTQMNHIVMEIDQEAYRDFSSQL  
TATCNVEQSFFNDFSGHLNFQIEHHLFPTMPRHNHVKVAPLVQSLCAKHGIEYQEKPLL  
RALLDIIRSLKSGKLWLDAYLHK

>sp|Q8N9I5|FADS6\_HUMAN Fatty acid desaturase 6 OS=Homo sapiens GN=FADS6 PE=2 SV=2

MEPTPEPTPEPTPEPTPEPARSAHRGGEALLRELEVLVQDVVRTSSWVERHGVDCAIL  
ALSFLAPAGFLCLRWENALVFASGITILGVCHYTLTVKGSHLATHGALTESKRWSKIWL  
LFFVEVCTAFTAETHGHVMMHAYTNVVGLDSSSTWRLPCLNRYVYMFAPFLPIAT  
PLVAVERLRKVELGTALRTLALISGLYSHYWLLNVSGFKNPSSALGCMFLTRSLAHP  
YLHVNIHQHIGLPMFSRDNKPRRIHMMSLGVLNARLPVLDWAFGHSIISCHVEHHLFPR  
LSDNMCLKVKPVVSQFLREKQLPYNEDSYLARFQLFLRRYEEFMVQAPPITELVGL

>sp|Q6P2I3|FAH2B\_HUMAN Fumarylacetoacetate hydrolase domain-containing protein 2B OS=Homo  
sapiens GN=FAHD2B PE=1 SV=1

MLVSGRRRLLTALLQAQKWPFPQSRDMRLVQFRAPHLVGPHLGLETGNGGGVINLNAFDP  
TLPKTMTQFLEQGEATLSVARRALAAQLPVLVPWSEVTFLAPVTWPKVVCVGMNYVDHCK

EQNPVPKEPIIFSKEASSIVGPYDEVVLPQSQEVDWEVELAVVIGKKGKHIAKDAMA  
HVAGFTVAHDVSARDWLTRRNGKQWLLGKTFDTFCPLGPALVTKDSVADPHNLKICCRVN  
GEVVQSSNTNQMVFKTEDLIAWVSQFVTFFYPGDVILTGTTPGVGVFRKPPVFLKKGDEVQ  
CEIEELGVIINKVV

>sp|Q6P587|FAHD1\_HUMAN Acylpyruvase FAHD1, mitochondrial OS=Homo sapiens GN=FAHD1 PE=1  
SV=2

MGIMAASRPLSRFEWGWKNIVCVGRNYADHVREMSAVLSEPVFLKPSTAYAPEGSPIL  
MPAYTRNLHHELELGVMGKRCRAVPEAAAMDYVGGYALCLDMTARDVQDECKKKGLPWT  
LAKSFTASCPVSFAFPKEKIPDPHKLKLWLKVNGELRQEGETSSMIFSIPIIISYVSKII  
TLEEGDIILTGTPKGVPVKENDEIEAGIHGLVSMTFKVEKPEY

>sp|Q96BQ1|FAM3D\_HUMAN Protein FAM3D OS=Homo sapiens GN=FAM3D PE=1 SV=1

MRVSGVLRLLALIFAIVTTWMFIRSYSFSMKTIRLPRWLAASPTKEIQVKKYCGLIKP  
CPANYFAFKICSGAANVVGPTMCFEDRMIMSPVKNNVGRGLNIALVNGTTGAVLGQKAFD  
MYSGDVMLVKFLKEIPGGALVLVASYDDPGTKMNDESRLFSDLGSSYAKQLGFRDSWV  
FIGAKDLRGKSPFEQFLKNSPDTNKYEGWPELLEMEGCMPPKPF

>sp|Q8IZU1|FAM9A\_HUMAN Protein FAM9A OS=Homo sapiens GN=FAM9A PE=1 SV=1

MEPVGRKRSRKAQAQLEAQVTAAGATKEGSGIASNFPQGPTMEPVGRKRSRKAQAQ  
EAQVRAAPAKKHTGKDPVRDECEERNPFTETREEDVTDEHGEREPFAEKDEHTGIHTMKL  
EHIAADIKKGLAAKREMIKIDKAAAYRKTNTIERALKKKQLKRQKRDYRHKLLNLKE  
YIAEKQKDDEAE  
EEEEGGEGEGEGGGGEGEETEEEEEEEEEEEEEQIKAFQEKQKRWQQPTGVRSWRLRE  
MKPLLEQLLKAADTKDNYCIISSSESELDN

>sp|P22087|FBRL\_HUMAN rRNA 2'-O-methyltransferase fibrillarin OS=Homo sapiens GN=FBL PE=1  
SV=2

MKPGFSRGGGFGGRGGFGDRGGRGGGFGGGRGGRGGGFRGRGRRGGGGGGGGGGGGRG  
GGGFHSGGNRGRGRGGKRGNGSGKNVMVEPHRHEGVFICRGKEDALVTKNLVPGESVYGE  
KRVISSEGDDKIEYRAWNPFRSKLAAAILGGVDQIHIKPGAKVLYLGAASGTTVSHVSDI  
VGPDGLVYAVEFSHRSGRDLINLAKKRTNIPVIEDARHPHKYRMLIAMVDVIFADVAQP  
DQTRIVALNAHTFLRNGGHFVISIKANCIDSTASAEAVFASEVKKMQQENMKPQEQLTLE  
PYERDHAVVVGYYRPPPKVKN

>sp|Q9UKB1|FBW1B\_HUMAN F-box/WD repeat-containing protein 11 OS=Homo sapiens GN=FBXW11  
PE=1 SV=1

MEPDSVIEDKTIELMCSVPSRLWLGCANLVESMCALSCLSMPVSRCLQISNGTSSVIVS  
RKRPSSEGNQKEKDLCKIFYDQWSESDQVEFVEHLISRMCHYQHGHIINSYLKPMQRDFI  
TALPEQGLDHIAENILSYLDARSLCAAELVCKEQRVISEGMLWKKLIERMVRTDPLWKG  
LSERRGWDQYLFKNRPTDGPPNSFYRSLYPKIIQDIETIESNWRCGRHNLQRIQCRSENS  
KGVYCLQYDDEKIIISGLRDNSIKIWDKTSLECLKVLTGHTGSVLCLQYDERVIVTGSSDS  
TVRVWDVNTGEVLNLTIIHNEAVLHLRFSNGLMVTCSKDRSIAVWDASATDITLRRVLV  
GHRAAVNVVDFDDKYIVSASGDRITKVVSTSTCEFVRTLNHGKRGIAQLQYRDRLVSGS  
SDNTIRLWDIECGACLRVLEGHEELVRCIRFDNKIRIVSGAYDGKIKVWDLQAALDPRAPA  
STLCLRTLVEHSGRVFRLQFDEFQIISSSHDDTILIWDFLNVPPSAQNETRSPSRTYTYI  
SR

>sp|Q96EF6|FBX17\_HUMAN F-box only protein 17 OS=Homo sapiens GN=FBX017 PE=1 SV=1

MGARLSRRRLPADPSLALDALPELLVQVLSHVPPRSLVTRCRPVCRAWRDIVDGPTVWL

LQLARDRSAEGRALYAVAQRCLPSNEDKEEFPLCALARYCLRAPFGRNLIFNSCGEQGFR  
GWEVEHGGNGWAIENLTPVPGAPSQTCFVTSFEWCSKRQLVDLVMEGVWQELLSAQIE  
ICVADWWGARENCGCYVQLRVRLLDVYEKEVVKFSASDPVLQWTERGCRQVSHVFTNFG  
KGIRYVSFEQYGRDVSSWVGHYGALVTHSSVRVRIRLS

>sp|Q9NVF7|FBX28\_HUMAN F-box only protein 28 OS=Homo sapiens GN=FBX028 PE=1 SV=1

MAAAAEERMAEEGGGQGDGSSSLASGSTQRQPPPPAPQHPQPGSQALPAPALAPDQLPQ  
NNTLVALPIVAIENILSFSYDEISQLRLVCKRMDLVCQRMLNQGFLKVERYHNLCCQKQV  
KAQLPRRESERRNHSARHADILAAVETRLSLLNMTFMKYVDSNLCCFIPGKVIDEYIRV  
LRYVNSTRAPQRAHEVLQELRDISSMAMEYFDEKIVPILKRKLPGSDVSGRLMGSPVPG  
PSAALTMTQLFSKQNPQRQEVTKLQQQVKTNGAGVTVLRREISELRTKVQEQQQLQDQD  
QKLLLEQTQIIGEQRNARLAELERKLREVMESAVGNSSSGSGQNEESPRKRKKATEAIDSLRK  
SKRLRNRK

>sp|Q9NWN3|FBX34\_HUMAN F-box only protein 34 OS=Homo sapiens GN=FBX034 PE=1 SV=2

MHLKPYWKLQKKEHPPEVSRETQRTPMNHQKAVNDETCASHITSSVFPSASLGKASSRK  
PFGILSPNVLCMSGKSPVESSLNVKTKKNAPSATIHQEEEEGLDIWAVVKPGNTKEKI  
AFFASHQCSNRIGSMKIKSSWDIDGRATKRRKKSGLKAKVQVERMREVNRCYQPEPF  
ACGIEHCSVHYVSDSGDGVYAGRPLSVIQMVAFLEQRASALLASCSKNCTNSPAIVRFSG  
QSRGVPVAVSESYAPGACEPTERGNLEVGEPPQSEPVRVLDMAKLESECLKRQGGREP  
SLSRNNSFRNRVGRVLLANSTQADEGKTKKGVLEAPDTQVNPVGSVSDCGPSRADRCSP  
KEDQAWDGASQDCPPLPAGVSFHIDSAELEPGSQTAVKNSNRYDVEMTDELVLGPFSSHT  
YSQASELPTDAVDCMSRELVSLSRNPQQRKESLCISITVSKVDKQPSILNSCEDPVP  
MLFFLPPGQHLSDYSQLNESTTKESSEASQLEDAAGGDSASEEKSGSAEPFVLPASSVES  
TLPVLEASSWKKQVSHDFLETRFKIQQLLEPQQYMAFLPHHIMVKIFRLLPTKSLVALKC  
TCCYFKFIIEYYNIRPADSRWVRDPRYREDPCKQCKKKYVKGDVSLCRWHPKPYCQALPY  
GPGYWMCCHRSQKGFPGCKLGLHDNHVWPACHSFNRAIHKKAKGTEAEEEEY

>sp|Q9Y3I1|FBX7\_HUMAN F-box only protein 7 OS=Homo sapiens GN=FBX07 PE=1 SV=1

MRLRVRLKRTWPLEVPEPTLGHLSHLRQSLCTWGYSSNTRFTITLNYKDPLTGDE  
ETLASYGIVSGDLICLILQDDIPAPNIPSSDSEHSSLQNEQPSLATSSNQTSMDQEQP  
SDSFQGGAAQSGVWDDSMGLGPSQNFEAESIQDNAHMAEGTGFPSEPMLCSESVGGQVP  
HSLETLYQSADCSANDALIVLIHLLMESGYIPQGTEAKALSMPEKWKLSGVYKLQYMH  
PLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD  
LQKLSRLFKDQLVYPLLAFTQRALNLPDVGGLVPLLELKLRIFRLLDVRVLSLSAVCR  
DLFTASNDPLLWRFLYLDRDNTVRVQDQDWKELYRKRHIQRKESPKGRFVMLLPSSSTH  
TIPFYNPPLHPRFPSSRLPPGIIGGEYDQRPTLPYVGDPISSLIPGPGETPSQFPPLRP  
RFDVPGPLPGPNILPGRGGPNDRFPFRPSRGRPTDGRLSFM

>sp|P06734|FCER2\_HUMAN Low affinity immunoglobulin epsilon Fc receptor OS=Homo sapiens  
GN=FCER2 PE=1 SV=1

MEEGQYSEIEELPRRRCCRRGTQIVLLGLVTAALWAGLLTLLLWHWDTTQSLKQLEERA  
ARNVSQVSKNLESHHGDQMAQKSQSTQISQELEELRAEQRLKSQDLELSWNLNGLQADL  
SSFKSQELNERNEASDLLERLREEVTKLRMELQVSSGFCVNTCPEKWINFQRKCYFFGKG  
TKQVWHARYACDDMEGQLVSIHSPPEQDFLTKHASHTGSWIGLRNLDLKGFIWVDGSHV  
DYSNWPAGEPTSRSQGEDCVMMRGSGRWNDAFCDRKLGAWVCDRLATCTPPASEGSAESM  
GPDSRPDPDGRLPTPSAPLHS

>sp|Q9BSK4|FEM1A\_HUMAN Protein fem-1 homolog A OS=Homo sapiens GN=FEM1A PE=1 SV=1

MDLRTAVYNAARDGKLQLLQKLLSGRSREELDEL TGEVAGGGTPLLIAARYGHLDVVEYL  
VDRCGASVEAGGSVHFDGETIEGAPPLWAASAAGHLDVVRSLRRGASVNRTRTNSTPL  
RAACFDGHLEVVRYLVEGHQADLEVANRHGHTCLMISCYKGHREIARYLLEQGAQVNRRS  
AKGNTALHDCAESGSL EILQLLLGCKARMERDGYGMTPLLAASVTGHTNIVEYLIQE QPG  
QEQVAGGEAQGPLQEDPSTSQGCAQPQGAPCCSSSPEEPLNGESYESCCPTSREA AVEA  
LELLGATYVDKKRDL LGALKHWRRAMELRHQGGEYLPKPEPPQLVLAYDYSREVNTTEEL  
EALITDPDEM RMQALLIRERILGPSHPDTSYYIRYRGAVYADSGNFERCIRLWKYALDMQ  
QSNLEPLSPMTASSFLSFAELFSYVLQDRAAKGSLGTQIGFADLMGVLTKGVREVERALQ  
LPREPGDSAQFTKALAIILHLLYLLEKVECTPSQEHLKHQTVYRLLKCAPRGKNGFTPLH  
MAVDKDDTTN VGRYPVGRFPSLHVVKVLLDCGADPDSRDFDNNTP LHIAAQNNCPAIMNAL  
IEAGAHMDATNAFKKTAYELLDEKLLARGTMQPFNYVTLQCLAARALDNKNI PYKGFIPE  
DLEAFIELH

>sp|Q9UK73|FEM1B\_HUMAN Protein fem-1 homolog B OS=Homo sapiens GN=FEM1B PE=1 SV=1

MEGLAGYVYKAASEGKVLTLAALLNRSESDIRYLLGYVSQGGQ RSTPLIIAARNGHAK  
VVRLLEHYRVQTQQTGTVRFDGYVIDGATALWCAAGAGHFEVVKLLVSHGANVNHTTVT  
NSTPLRAACFDGRLDIVKYLVENNANISIANKYDNTCLMIAAYKGHTDVVRYLLEQRADP  
NAKAHCGATALHFAAEAGHIDIVKELIKWRAAIVVNGHGMTPLKVA AESCKADVVELLS  
HADCDRRSRIEALELLGASFANDRENYDIIKTYHYLYLAMLERFQDGNILEKEVLPPIH  
AYGNRTECRNPQELESIRQDRDALHMEGLIVRERILGADNIDVSHPIIYRGAVYADNMEF  
EQCIKLWLHALHLRQKGNRNTHKDLLRFAQVFSQMIHLNETVKAPDIECVLRCSVLEIEQ  
SMNRVKNISDADVHNAMDNYECNLYTFLYLCISTKTQCSEEDQCKINKQIYNLIHLDPR  
TREGFTLLHLAVNSNTPVDDFHTNDVCSFPNALVTKL LDCGAEVNAVDNEGNSALHIIV  
QYNRPISDFLTLSHIIISLVEAGAHTDMTNKQNKTP LDKSTTGVSEILLKTQMKMSLKCL  
AARAVRANDINYQDQIPRTLEEFVGFH

>sp|Q96JP0|FEM1C\_HUMAN Protein fem-1 homolog C OS=Homo sapiens GN=FEM1C PE=1 SV=1

MDLKTAVFNAARDGKLRLTLKLLASKSKEEVSSLISEKTNGATPLLMAARYGHLD MVEFL  
LEQCSASIEVGGSVNF DGETIEGAPPLWAASAAGHLKVVQSLLNHGASVNNTTLTNSTPL  
RAACFDGHLEIVKYLVEHKADLEVSNRHGHTCLMISCYKGHKEIAQYLLEKGADVNRKSV  
KGNTALHDCAESGSLDIMKMLLMYCAKMEKDGYGMTPLLSASVTGHTNIVDFLTHHAQTS  
KTERINALELLGATFVDKKRDL LGALKYWKKAMNMRYSDRTNII SKVPVQTLIMAYDYAK  
EVNSAELEEGLIADPDEM RMQALLIRERILGPSHPDTSYYIRYRGAVYADSGNFKRCINL  
WKYALDMQQSNLDPLSPMTASSLLSFAELFSFMLQDRAKGLLGTTVT FDDL MGILCKSVL  
ETIERAIKQTQCPADPLQLNKALSIILHLICLLEKVPCTLEQDHFKKQTIYRFLKLHPRGK  
NNFSPLHLAVDKNTTCVGRYPVCKFPSLQVTA ILIECGADVNRDSDDNSPLHIAALNNH  
PDIMNLLIKSGAHFDATNLHKQTASDLLDEKEIAKNLIQPINHTTLQCLAARVIVNHRIY  
YKGHIPEKLET FVSLHR

>sp|Q96RJ6|FER3L\_HUMAN Fer3-like protein OS=Homo sapiens GN=FERD3L PE=1 SV=1

MAAPYESCVDTTVLDFVADLSLASPRRPLLCD FAPGVSLGDPALALREGRRMARFEEG  
DPEEECEVDQGDGEEEEEEERGRGVSLGRPKRKR VITYAQRQAANIRERKRMFNLNEA  
FDQLRRKVPTFAYEKRLSRIETLRLAIVYISFMTE LLESCEKKESG

>sp|Q6ZU82|FAR2L\_HUMAN Putative inactive fatty acyl-CoA reductase 2-like protein OS=Homo sapiens GN=FAR2P1 PE=5 SV=1

MREFSLIELWLMPKVFNHVVG SFLVQRKKKQPKSVLVYHCTSGNLNPCNRGKMGFQVLA  
TFEIPIPFERALTRPYADFTTSNFR TQYWNAISQQAPAI IYDFYLWLTGRKPSYRRKIPS

STQFYKWRNRS

>sp|Q9Y4F1|FARP1\_HUMAN FERM, RhoGEF and pleckstrin domain-containing protein 1 OS=Homo sapiens GN=FARP1 PE=1 SV=1

MGEIEQRPTPGSRLGAPENSGISTLERGQKPPPTPSGKLVSIIQMLDDTQEAFEVPQRA  
PGKVLLDAVCNHLNLVEGDYFGLFDPDHKKITVWLDLLKPIVKQIRRPKHVVVKFVVKFF  
PPDHTQLQEELTRYLFALQVKQDLAQGRLTCNDTSAALLISHIVQSEIGDFDEALDREHL  
AKNKYIPQQDALEDKIVEFHNNHIGQTPAESDFQLEIARRLEMYGIRLHPAKDREGTKI  
NLAVANTGILVFQGFVKINAFNWAKVRKLSFKRKRFLIKLRPDANSAYQDTLEFLMASRD  
FCKSFWKICVEHHAFFRLFEFPKPKPKPVLSRGSSFRFSGRTQKQVLDYVKEGGHKVQ  
FERKHSKIHSIRSLASQPTELNSEVLEQSQQSTSLTFGEAESPGGQSCRRGKEPKVSAG  
EPGSHPSAPRRSPAGNKQADGAASAPTEEEEEVVKDRTQQSKPQPPQSTGSLTGSPHL  
SELSVNSQGGVAPANVTLSPNLSPDTKQASPLISPLLNDQACPRTDDEDEGRKRFPDTK  
AYFIAKEVSTTERTYLKDLEVITSWFQSTVSKEDAMPEALKSLIFPNFEPLHKFHTNFLK  
ETEQRLALWEGRSNAQIRDYQIRIGDVMLKNIQGMKHLAAHLWKHSEALEALENGIKSSRR  
LENFCRDFELQKVCYPLNTFLRLPLHRLMHYKQVLERLCKHPPSHADFRDCRAALAEI  
TEMVAQLHGTMIKMENFQKLHELKKDLIGIDNLVVPGREFIRLGSLSKLSGKGLQQRMF  
LFNDVLLYTSRGLTASNQFKVHGQLPLYGMTIEESEDEWGVPHCLTLRGQRQSIIVAASS  
RSEMEKWVEDIQMAIDLAEKSSSPAPEFLASSPPDNKSPDEATAADQESEDLSASRTSL  
ERQAPHRGNTMVHVCWHRNTSVSMVDFSIAVENQLSGNLLRKFKNSNGWQKLWVFTNFC  
LFFYKSHQDNHPLASPLLLGYSLTIPSESENIQKDYVFKLHFKSHVYFRAESEYTFERW  
MEVIRSATSSASRPHVLSHKESLVY

>sp|Q9UK96|FBX10\_HUMAN F-box only protein 10 OS=Homo sapiens GN=FBX010 PE=1 SV=3

MEAGGLPLELWRMILAYLHLPDLGRCSLVCRAWYELILSLDSTRWRQLCLGCTECRHPNW  
PNQPDVEPESWREAFKQHYLASKTWTKNALDLESSICFSLFRRRRRERTLSVGPGRFDS  
LGSALAMASLYDRIVLFPGVYEEQGEIILKVPVEIVGQKLGEOALLASIDQHCSTTRLC  
NLVFTPAWFSPIMYKTTSGHVQFDNCFENGHIQVHGPGTCQVKFCTFKNTHIFLHNVP  
CVLENCEFVSGSENNSVTVEGHPSADKNWAYKYLLGLIKSSPTFLPTEDSDFLMSLDLES  
DQAWSPKTCDIVIEGSQSPTSPASSSPKPGSKAGSQEAEVSGDGERVAQTPDSSDGLSP  
SGEDEDEDQLMYRLSYQVQGRPVLGGSFLGPPLPGASIQLPSCVLNLSQQELQKDEA  
MALANSVQGCLIRKCLFRDGGGVFVCSHGKRAKMEGNIFRNLTAVRCIHNSKIIMLRND  
IYRCRASGIFLRLEGGGLIAGNNIYHNAEAGVDIRKKSNNPLILCNQIHHGLRSGIVVLGN  
GKGIIRNNQIFSNKEAGIYILYHGNPVVSGNHIFKGRAAGIAVNENGKGLITENVIRENQ  
WGGVDIRRGIPVLRNLCIFGYSDGVVVGDEGKGLIEGNTIYANKGCGVMMSSSLPHV  
TSNHVSYNGLYGVAVFSQKDGSELPRGHRAQENFSEDGAILWETELEKEDDPLRRPIT  
IALVESNSINHNGASGLYVQSSEALHVITNVIHANGDRGITVAQSSQPTRVANNISCNR  
QSGVKVEAQCKVELRNGIYDNRGHGIITKGDSTIVIENDIIGNRGSGQLLPRSDTKVI  
KNRIHSFRAYGIAVRGRAKALVQENIIFQGKTSKTIQQISNNRECIMQNNKFLVFKKKS  
DTWRLVNPPARPHLENSLRPSAAHNGQKVTAMATRITARVEGGYHSNRSVFCTIL

>sp|Q8NCQ5|FBX15\_HUMAN F-box only protein 15 OS=Homo sapiens GN=FBX015 PE=2 SV=2

MATGRGRILQQHWLGLQLTRGSPSRGGGAARGRARAFCRKGPGVKLSAGSAAALRCHAGGG  
QHWESSFSCCSGFLDGMPSEILKIFSYLDAVSLCTGCVSRRFYHLANDNFIWIGIYST  
AFSPARSNWKFNSVEKIAMSMFLSVQDKEAGYWKKEYITKQIASVKAALADILKPVNPY  
TGLPVKTKEALRIFGLGWAIIILKEKGKEYIMEHVDLSINDTSVTVIWYGKKWPCLASLS  
TLDLCGMTPVFTDWYKTPTKHRLRWHSIIAKYNLSHLTISTMIGCDRLIRIFCLHPGLLV

GVWKKEEELAFVMANLHFHHLVERSTLGSATIPYELPPHSPFLDDSPHYGLHGYQLHVDL  
HSGGVFYLCGTFRNLFTKRGNIEGHVKLIVIHLLKNNREHLPLIGKVGLSWKTDIFDGC  
KSCSMMMDVTLDEHGKPFWCFSSPVCLRSPATPSDSSSFLGQTYNVDYVDAEGRVHVELV  
WIRETEEYLIVNLVLYLSIAKINHWFGEY

>sp|Q8TB52|FBX30\_HUMAN F-box only protein 30 OS=Homo sapiens GN=FBX030 PE=1 SV=3

MEEELQHSVCVNCVSRRCMTRPEPGISCDLIGCPLVCGAVFHSCADEHRLLCPFERVPC  
LNSDFGCPFTMARNVKAEHLEMCASVVCCTMEWNRWPVSYADRKSYENLSRDVDEVAQL  
DMALALQDQRMLESKLVATMMSKATDKVSKPREQISVKSSVPEIPHANGLVSVDEESYG  
ALYQATVETTRSLAAALDILNTATRDIGMLNTSVPNDMDEQQNARESLEDQNLKDQDHL  
EEEIGAVGGIDYNDTNQNAQSEQNGSSDLLCDLNTSSYDTSALCNGFPLENICTQVIDQN  
QNLHGDSKQSNLTNGDCVASSDGTSPSSSLAVAAQLREIIPSSALPNGTVQHILMPDDE  
GEGELCWKKVDLGDVKNVDVLSFSHAPSFNFLSNCSWSPKEDKAVDTSDEVAEDPMGL  
QGIDLITAALLFCLGDSPPGGRGISDSRMADIYHIDVGTQTFSLPSAILATSTMVGEIASA  
SACDHANPQLSNPSPFQTLGLDLVLECVARYQPKQSMFTFVCGQLFRRKEFSSHFKNVH  
GDIHAGLNGWMEQRCPLAYYGCTYSQRRFCPSIQGAKI IHDRHLRSFGVQPCVSTVLV  
ARNCVLGLHNDHLSSLPFEVLQHIAGFLDGFSLCQLSCVSKLMRDVCGSLLQSRGMVILQ  
WGKRKYPEGNSSWQIKEKVWFSTAFCSVNEWKFADILSMADHLKKCSYNVVEKREEAIP  
LPCMCVTRELTKGRSLRSVLKPVL

>sp|Q5XUX0|FBX31\_HUMAN F-box only protein 31 OS=Homo sapiens GN=FBX031 PE=1 SV=2

MAVCARLCGVGPSRGCRRRQRRGPAETAAADSEPDTPDEERIEASAGVGGGLCAGPSP  
PPPRCSLLELPPELLVEIFASLPGLDPLSLAQVCTKFRRIILHTDTIWRRCREEYGV  
CENLRKLEITGVSCRDVYAKLLHRYRHILGLWQPDIGPYGGLNVDGLFIIGWMYLPPHDP  
HVDDPMRFKPLFRIHLMERKAATVECMYGHKGPHHGHIIQIVKKDEFSTKCNQTDHHRMSG  
GRQEEFRTWLREEWGRTLEDIFHEHMQELILMKFIYTSQYDNCLTYRRIYLPSPRPDDLI  
KPGLFKGTYGSHGLEIVMLSFHGRARGTKITGDPNIPAGQQTVEIDLRHRIQLPDLENQ  
RNFNELSRIVLEVRERVREQEQEGGHEAGEGRGQGPRESQPSAPRAEAPSKGPDGTP  
GEDGGEFGDAVAAAEQPAQCGGQPFVLPVGVSSRNEDYPRTCRMCFYGTGLIAGHGFTS  
PERTPGVFILFDEDRFGFVWLELKSFSLSYRVQATFRNADAPSPQAFDEMLKNIQSLTS

>sp|Q6PJ61|FBX46\_HUMAN F-box only protein 46 OS=Homo sapiens GN=FBX046 PE=1 SV=3

MDRGSLLPFQLWCPRPFGTYSQNPQRPSSAALKPSACEPEGGGAEPDHGPAHSENTPPAL  
ATEVPASQPAPLLSAAAAGDEGRVLLDTWYVIKPGNTKEKVAFFVAHQCGGSRASSMKV  
KGHWGSDSSKAKRRRRCLDPTKAPPDPGGREGPPAAEEGPASAGEDVDLLSVAEMVALVE  
QRAALALQSYPRPTTPAPVVFVSAEQGGPAKGVGSERRSGGGDCSRVAEAVAHFEAQRDS  
PPTKGLRKEERPGPGEVRIAFRISNGREPRAPDSGLPSGGGGRPGCAYPGSPGPGARA  
KDKITCDLYQLISPSRDALPSNVEFLLARADEASEGDSAPARPEDTPPAPPPPPARDCG  
ASGFHVDVVVTGVVDECIFFGKDGTKNVKEETVCLTVSPEEPPPPGQLFFLQNRGPDGPP  
EPPPADSPATAPGDDAEGTADTSLCRLYRHVSHDFLEIRFKIQRLLEPRQYMLLLPEHV  
LVKIFSLPTRLAALAKCTCHHFKGIIAFAFVRATDSRWSRDPLYRDDPCKQCRKRYEKG  
DVSLCRWHPKPYHHDLPYGRSYWMCRRADRETGCRLLGLHDNNWVLPNGPGGGRAGRE  
EGR

>sp|Q6ZVX7|FBX50\_HUMAN F-box only protein 50 OS=Homo sapiens GN=NCCRP1 PE=1 SV=1

MEEVREGHALGGGMEADGPASLQELPPSPRSPSPPPSPPLSPPSLPSAAPEAPELPE  
PAQPSEAHARQLLLEEWGPLSGGELPQRLTWKLLLLRRPLYRNLLRSPNPEGINIYEP  
PPTGPTQRPLETLGNFRGWYIRTEKLQQNQSWTVKQQCVDLLAEGLWEELLDDDEQPAITV

MDWFEDSRLDACVYELHVWLLAADRRTVIAQHHVAPRTSGRGPPGRWVQVSHVFRHYGPG  
VRFIHFLHKAKNRMEPGGLRRTRVTDSSVSVQLRE

>sp|Q9UJT9|FBXL7\_HUMAN F-box/LRR-repeat protein 7 OS=Homo sapiens GN=FBXL7 PE=2 SV=1

MGANNGKQYGSEKGSSSISSDVSSSTDHTPTKAQKNVATSESDLSMRTLSTPSPALIC  
PPNLPGFQNGRGSSTSSSSITGETVAMVHSPPPTRLTHPLIRLASRPQKEQASIDRLPDH  
SMVQIFSFLPTNQLCRCARVCRRWYNLAWDPRLWRTIRLTGETINVDRAKVLTRRLCQD  
TPNVCLMLETVTVSGCRRLTDRGLYTTIAQCCPELRRLEVSGCYNISNEAVFDVVSCLPNL  
EHLDSVSGSKVTCISLTREASIKLSPLHGKQISIRYLDMTDCFVLEDEGLHTIAAHCTQL  
THLYLRRCVRLTDEGLRYLVIYCASIKELSVSDCRFVSDFGLREIAKLESRLRYLSIAHC  
GRVTDVGIRYVAKYCSKLRYLNARGCEGITDHGVEYLAKNCTKLKSLDIGKCPLVSDTGL  
ECLALNCFNLKRLSLKSCESITGQGLQIVAANCFDLQTLNVQDCEVSVEALRFVKRHCKR  
CVIEHTNPAFF

>sp|P57775|FBXW4\_HUMAN F-box/WD repeat-containing protein 4 OS=Homo sapiens GN=FBXW4 PE=1  
SV=1

MAAAAGEEEEEEAARESAARPAAGPALWRLPEELLLLICSYLDMRALGRLAQVCRWLRR  
FTSCDLLWRRIARASLNSGFTRLGTDLMTSVPVKERVKVSQNWRLGRCREGILLKWRCSEQ  
MPWMQLEDDSLYISQANFILAYQFRPDGASLNRRLGVFAGHDEDEVCHFVLANSIIVSAG  
GDGKIGIHKIHSTFTVKYSAHEQEVNCVDCKGGIIVSGSRDRTAKVWPLASGRLGQCLHT  
IQTEDRVWSIAISPLLSSFVTGTACCGHFSPLRIWDLNSGQLMTHLGSDFPPGAGVLDVM  
YESPFTLLSCGYDTYVRYWDLRTSVRKCVMEWEEPHDSTLYCLQTDGNHLLATGSSYYGV  
VRLWDRRQRACLHAFPLTSTPLSSPVYCLRLTTKHLAALSYNLHVLDFQNP

>sp|Q9Y324|FCF1\_HUMAN rRNA-processing protein FCF1 homolog OS=Homo sapiens GN=FCF1 PE=2  
SV=1

MGKQKKTRKYATMKRMLSLRDQRLKEKDRLPKKKKKKDPKALKEREVPQHPSCLFFQYN  
TQLGPPYHILVDTNFINFSIKAKLDLVQSMMDCLYAKCIPCITDCVMAEIEKLGQKYRVA  
LRIAKDPRFERLPCTHKGTYADDCLVQRVTHKCYIVATVDRDLKRRIRKIPGVPIMYIS  
NHRYNIERMPDDYGAPRF

>sp|Q96AC1|FERM2\_HUMAN Fermitin family homolog 2 OS=Homo sapiens GN=FERMT2 PE=1 SV=1

MALDGIRMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVKLDVKKDWS  
HALWWEKKRTWLLKTHWTLDKYGIQADAKLQFTPQHKLRLQLPNMKYVKVKNFSDRVF  
KAVSDICKTFNIRHPEELSLLKKPRDPTKKKKKKLDDQSEDEALELEGPLITPGSGSIYS  
SPGLYSKTMPTDYAHDGSPLSPTSAWFGDSALSEGNPILAVSQPITSPEILAKMFKPQ  
ALLDKAKINQGWLDSSRSLMEQDVKENEALLRFKYYSFFDLNPKYDAIRINQLYEQAKW  
AILLEEIECTEEEMMFAALQYHINKLSIMTSENHLNNSDKEVDEVDAAALSDLEITLEGG  
KTSTILGDITSPELADYIKVFKPKKLTGKYQYQWCTFKDTSISCYKSKEESSGTPAHQ  
MNLRGCEVTPDVNISGQKFNKLLIPVAEGMNEIWLRCNEKQYAHWMAACRLASKGKTM  
ADSSYNLEVQNILSFLKMQLNPDQLIPEQITTDITPECLVSPRYLKKYKNKQITARIL  
EAHQNVAQMSLIEAKMRFIQAWQSLPEFGITHFIARFQGGKKEELIGIAYNRLIRMDAST  
GDAIKTWRFSNMKQNVNWEIKMVTVEFADEVRLSFICTEVDCKVVHEFIGGYIFLSTRA  
KDQNESLDEEMFYKLTSGWV

>sp|Q99689|FEZ1\_HUMAN Fasciculation and elongation protein zeta-1 OS=Homo sapiens GN=FEZ1  
PE=1 SV=1

MEAPVLSLDEEFEDLRPSCSEDPEEKPCQFYGSSPHHLEDPSLSELENFSSEIISFKSME  
DLVNEFDEKLVNCFRNYNAKTENLAPVKNQLQIQEEEEETLQDEEVWDALTDNYIPSLSED



WRDPNIEALNGNCSDTEIHEKEEEEFNEKSENDSGINEEPLLTADQVIEEIEEMMQNSPD  
PEEEEEVLEEEDGGGETSSQADSVLLQEMQALTQTFNNNWSYEGLRHMSGSELTELLDQVE  
GAIRDFSEELVQQLARRDELEFEKEVKNSFITVLIQNKQKEQRELMKKRRKEKGLSLQ  
SSRIEKGNQMPKRFMEGISNILQSGIRQTFGSSGTDKQYLNTVIPYEKKASPPSVEDL  
QMLTNILFAMKEDNEKVPTLLTDYILKVLCP

>sp|Q5JSP0|FGD3\_HUMAN FYVE, RhoGEF and PH domain-containing protein 3 OS=Homo sapiens  
GN=FGD3 PE=1 SV=1

MESGRGSSTPPGPIAALGMPDTGPGSSSLGKLQALPVGPRAHCGDPVSLAAAGDGPDIG  
PTGELSGSLKIPNRDSGIDSPSSSVAGENFPCEEGLEAGPSPTVLGAHAEMALDSQVPKV  
TPQEEADSDVGEEPDSENTPQKADKDAGLAQHSGPQKLLHIAQELLHTEETYVKRLHLLD  
QVFCTRLTDAGIPPEVIMGIFSNISSIHRFHGQFLPELKTRITEEWDNPNRLGDILQKL  
APFLKMYGEYVKNFDRAGLVSTWTQRSPLFKDVVHSIQKQEVCGNLTLQHHMLEPVQRV  
PRYELLKDYLRPLQDAPDRKDAERSLELISTAANHSNAAIRKVEKMHKLLEVYEQLG  
EEDIVNPANELIKEGQIQKLSAKNGTPQDRHLFLFNSMILYCVPKLRMLMGQKFSVREKMD  
ISGLQVQDIVKPNTAHTFIITGRKRSLELQTRTEEEKKEWIIQATIEKHKQNSETFKA  
FGGAFSQDEDPSLSPDMPITSTSPVEPVVTEGSSGAAGLEPRKLSSKTRRDKEKQSCKS  
CGETFNSITKRRHHCKLCGAVICGKCSEFKAENSRQSRVCRDCLTQPVAPESTEKTPA  
DPQPSLLCGPLRLSESGETWSEVWAAIPMSDPQVLHLQGGSQDGRLPRTIPLPSCKLSVP  
DPEERLDSGHVWKLQWAKQSWYLSASSAELQQQWLETSTAAGDTAQDSPGALQLQVPM  
GAAAP

>sp|Q9NP95|FGF20\_HUMAN Fibroblast growth factor 20 OS=Homo sapiens GN=FGF20 PE=1 SV=1  
MAPLAEVGGFLGGLEGLGQQVGSHFLPPAGERPPLLGERRSAAERSARGGPAAQLAHL  
HGILRRRQLYCRGTGHLQILPDGQSVQGTQDHSFLGILEFISVAVGLVSIRGVDSGLYL  
MNDKGELYGSEKLTSECFREQFEENWYNTYSSNIYKHGDTGRRYFVALNKDGTPRDGAR  
SKRHQKFTHFLPRPVDPERVPELYKDLLMYT

>sp|Q9HCT0|FGF22\_HUMAN Fibroblast growth factor 22 OS=Homo sapiens GN=FGF22 PE=1 SV=1  
MRRRLWLGLAWLLARAPDAAGTPSASRGPSPHLEGDVRWRRLFSSTHFFLRVDPGGR  
VQGTWRWHGQDSILEIRSVHVGVVVIKAVSSGFYVAMNRRGRLYGSRLYTVDCRFRE  
ENGHNTRYASQRWRRRGQPMFLALDRRGPRPGGRTTRYHLSAHFLPVLVS

>sp|Q9GZV9|FGF23\_HUMAN Fibroblast growth factor 23 OS=Homo sapiens GN=FGF23 PE=1 SV=1  
MLGARLRLWVCALCSVCSMSVLRAYPNASPLLGSSWGGLIHLTYATARNYHLQIHKN  
VDGAPHQTIYSALMIRSEDAGFVVITGVMSRRYLCMDFRGNIFGSHYFDPENCRFQH  
ENGYDVYHSPQYHFLVSLGRAKRAFLPGMNPPYQSFLSRRNEIPLIHFNTPIPRRH  
AEDDSERDPLNLKPRARMTPAPASCSQELPSAEDNSPMASDPLGVVRGGRVNT  
HAGGTGPEGCRPFAKFI

>sp|P26885|FKBP2\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP2 OS=Homo sapiens GN=FKBP2  
PE=1 SV=2

MRLSWFRVLTVLSICLSAVATATGAEGKRKLQIGVKRVDHCPIKSRKGDVLMHYTGKL  
EDGTEFDSSLQNPQPFVFSLTGQVIKQWDQGLGMCEGEKRLVIPSELGYGERGAPPK  
IPGGATLVFEVELLKIERTEL

>sp|Q9UPI3|FLVC2\_HUMAN Feline leukemia virus subgroup C receptor-related protein 2 OS=Homo sapiens GN=FLVC2 PE=1 SV=1

MVNEGPNQEESDDTPVPESALQADPSVSVHPSVSVHPSVINPSVSVHPSSSAHPSALA  
QPSGLAHPSSSGPEDLSVIKVSRRRWAVVLVFCYSMCSNFQWIIQYGSINNIFMHFYGVSA

FAIDWLSMCYMLTYIPLLLPVAWLLEKFLRTIALTGSALNCLGAWVKLGSLKPHLFPVT  
VVGQLICSVAQVFILGMPSTRIASVWFGANEVSTACSVAVFGNQLGIAIGFLVPPVLVPNI  
EDRDELAYHISIMFYIIGGVATLLLVIIIVFKEKPKYPPSRAQSLSYALTSPDASYLGS  
IARLFKNLNFVLLVITYGLNAGAFYALSTLLNRMVIWHYPGEEVNAGRIGLTIVIAGMLG  
AVISGIWLDRSKTYKETTLVVYIMTLVGMVVYFTLNLGHLWVVFITAGTMGFFMTGYLP  
LGFFAVELTYPESEGISSGLLNISAQVFGIIFTISQGGIIDNYGTPGNIFLCVFLTLG  
AALTAFIKADLRRQKANKETLENKLQEEEEESNTSKVPTAVSEDHL

>sp|B3EWG3|FM25A\_HUMAN Protein FAM25A OS=Homo sapiens GN=FAM25A PE=3 SV=1  
MLGGLGKLAAEGLAHRTEKATEGAIHAVEEVKEVVGHAKETGEKAIAEAIKKAQESGDK  
KMKEITETVTNTVTNAITHAAESLDKLGQ

>sp|P49326|FMO5\_HUMAN Dimethylaniline monooxygenase [N-oxide-forming] 5 OS=Homo sapiens  
GN=FMO5 PE=1 SV=2

MTKKRIAVIGGGVSGLSSIKCCVEEGLEPVCFERTDDIGGLWRFQENPEEGRASIYKSVI  
INTSKEMMCFSDYIPDHYPNFMHNAQVLEYFRMYAKEFDLLKYIRFKTTVCSVKKQPDF  
ATSGQWEVVTESEGGKEMNVFDGVMVCTGHHTNAHLPLESFGIEKFKGQYFHSRDYKNP  
EGFTGKRVIIGIGNSGGDLAVEISQTAKQVFLSTRRGAWILNRVGDYGYPADVLFSSRL  
THFIWKICGQSLANKYLEKKINQRFDEHMFGLKPKHRALSQHPTLNDDLPNRIISGLVKV  
KGNVKEFTETAAIFEDGSREDDIDAVIFATGYSFDFPFLEDSVKVKNKISLYKKVFPPN  
LERPTLAIIGLIQPLGAIMPISELQGRWATQVFKGLKTLPSQSEMAEISKAQEEIDKRY  
VESQRHTIQGDYIDTMEELADLVGVRPNLLSLAFTDPKLALHLLGPCTPIHYRVQGPGK  
WDGARKAILTTDDRIRKPLMTRVVERSSMTSTMTIGKFMALALAFFAII IAYF

>sp|Q06828|FMOD\_HUMAN Fibromodulin OS=Homo sapiens GN=FMOD PE=1 SV=2

MQWTSLLLLAGFLSLSQAQYEDDPHWWFHYLRSQQSTYYDPYDPYPYETYPYPYGVDEG  
PAYTYGSPSPDPDCPQECDCPPNFPPTAMYCDNRNLKYLFPVPSRMKYVVFQNNQITSI  
QEGVFDNATGLLWIALHGNQITSDKVGRKVFSLRHLERLYLDHNNLTRMPGPLPRSLRE  
LHLHNNQISRPVNNALEGLENLTALYLQHNEIQEVGSSMRGLRSLILDL SYNHLRKVPD  
GLPSALEQLYMEHNNVYTPDSYFRGAPKLLYVRLSHNSLTNGLASNTFNSSSLELDL  
SYNQLQKIPPVNTNLENLYLQGNRINEFSISSFCTVVDVNVFSLQVLRLDGNEIKRSAM  
PADAPLCLRLASLIEI

>sp|Q4ZHG4|FNDC1\_HUMAN Fibronectin type III domain-containing protein 1 OS=Homo sapiens  
GN=FNDC1 PE=2 SV=4

MAPEAGATLRAPRRLSWAALLLAALLPVASSAAASVDHPLKPRHVKLLSTKMGLKVTWD  
PPKDATSRPVEHYNIAYGKSLKSLKYIKVNAETYSFLIEDVEPGVVYFVLLTAENHSGVS  
RPVYRAESPPEGWIEIDGFPIKGPFPNETVTEKEVPNKPLRVRVRSSDRLSVAWKAP  
RLSGAKSPRRSRGFLGYGESGRKMNYVPLTRDERTHEIKKLASESVYVSLQSMNSQGR  
SQPVYRAALTKRKISEEDELDPDDISVRVMSSQSVLVSWVDPVLEKQKKVVASRQYTVR  
YREKGELARWDYKQIANRRVL IENLIPDTVYEFVRISQGERDGKWSTSVFQRTPEAPT  
TAPENLNVWPVNGKPTVVAASWDALPETEGKVKYILSYAPALKPFGAKSLTYPGDTTSA  
LVDGLQPGERYLFKIRATNRRGLGPHSKAFIVAMPTTSKADVEQNTEDNGKPEKPEPSSP  
SPRAPASSQHPSVPASPQGRNAKDLLDLKNKILANGGAPRKPLRAKKAEELDLQSTEI  
TGEEELGSREDSMPSPSDTQDQKRTLPPSRHGHSVVAPGRTAVRARMALPRREGVDKP  
GFSLATQPRPGAPPSASASPAHHASTQGTSHRPSLPASLNDNDLVDSDEDERAVGSLHPK  
GAFAQPRPALSPSRQSPSSVLRDRSSVHPGAKPASPARRTPHSGAAEEDSSASAPPSRLS  
PPHGGSSRLPTQPHLSSPLSKGGKGDGAPATNSNAPSRSTMSSSVSSHLSSRTQVSEG

AEASDGESHGDDREDGGRQAEATAQTLRARPASGHFHLRHKPFAANGRSPSRFSIGRG  
PRLQPSSSPQSTVPSRAHPRVPSHSDSHPKLSSGIHGDEEDEKPLPATVVNDHVPSSSRQ  
PISRGWEDLRSPQRGASLHRKEPIPENPKSTGADTHPQKGYSSLASKAQDVQQSTDADT  
EGHSPKAQPGSTDRHASPARPPAARSQQHPSVPRRMTPGRAPQQQPPPPVATSQHHPGPQ  
SRDAGRSPSQPRLSLTQAGRPRPTSQGRSHSSSDPYTASSRGMLPTALQNQDEDAQGSYD  
DDSTEVEAQDVRAPAAHAAKEAAAALPKHQVESPTGAGAGGDHRSQRGHAASPARPSR  
PGGPQSRARVPSRAAPGKSEPPSKRPLSSKSQQSVSAEDDEEEDAGFFKGKEDLLSSSV  
PKWPSSTPRGGKDADGSLAKEEREPAIALAPRGGSLAPVKRPLPPPPGSSPRASHVPSR  
LPPRSAATVSPVAGTHPWPQYTTRAPPGHFSTPMLSLRQRMHARFRNPLSRQPARPSY  
RQGYNGRPNVEGKVLPGSNGKPNGQRIINGPQGTKWVVDLDRGLVLNAEGRYLQDSHGNP  
LRIKGGDGRTIVDLEGTPVVS PDGLPLFGQGRHGTPLANAQDKPILSLGGKPLVGLEVI  
KKTTHPPTTTMQPTTTTTPLTPTTTTPRPTTATTRRTTTTTRRTTTRRPTTTVRTTTRTTT  
TTPTPTPIPTCPPGTLEHDDDNLMSSNGIPECYAEDEFSGLETD TAVPTEEAYVI  
YDEYEFETS RPTTTEPSTTATTPRVIPEEGAIS SFPEEEFDLAGRKRFVAPYV TYLNK  
DPSAPCSLTDALDHFQVDSLDEIIPNDLKSDLPPQHAPRNTTVVAVEGCHSFVIDWDK  
ATPGDVVTGYLVYSASYEDFIRNKWSTQASSVTHLPIENLKPNTTRYFKVQAQNP HGYGP  
ISPSVSFVTESDNPLL VVRPPGGEP IWI PF AFKHDP SYTDCHGRQYVKRTWYRKFGVVL  
CNSLRYKIYLSDNLKD TFYSIGDSWGRGEDHCQFVDSHLDGRTGPQSYVEALPTIQGYR  
QYRQEPVRFGNIGFGTPYYYYGWYECGVSIPGKW

>sp|Q13461|FOX E3\_HUMAN Forkhead box protein E3 OS=Homo sapiens GN=FOX E3 PE=1 SV=2

MAGRSDMDPPAAAFSGFPALPAVAPSGPPPSPLAGAEPGREPEEAAAGRGEAAPTAPGPG  
RRRRRPLQRGKPPYSYIALIAMALAHAPGRRLTAAIYRFITERFAFYRDS PRKWQNSIR  
HNLTLND CFVKVPREPGNPGKGN YWTLDPAAADMF DNGSFLRRRKRFKRAELPAHAAAAP  
GPPLPFYAPYAPAPGPALLVPPPSAGPGSPPARLFSVDSLVLNQPELAGLGAPEPPCC  
AAPDAAAAAFPPCAAAASP LYSQVPDRLVLPATRPGGPLPAEPLLALAGPAAALGPLS  
PGEAYLRQPGFASGLERYL

>sp|Q12947|FOX F2\_HUMAN Forkhead box protein F2 OS=Homo sapiens GN=FOX F2 PE=1 SV=2

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SSSNSASAPSAACKSAGGGGAGAGSGGAKKASSGLRRPEKPPYSYIALIVMAIQSSPSKR  
LTLSEIYQFLQARFPFFRGAYQGWKNSVRHNL SLNECFIKLPKGLGRPGKGHYWTIDPAS  
EFMFEEGSFRRRPRGRFRKQALKPMYHRVVSGLGFGASLLPQGFD FQAPPSAPLGCHSQ  
GGYGGLDMMPAGYDAGAPSHAHPHHHHHHVPHMSPNPGSTYMASCPVPAGPGGVGAA  
GGGGGGDYGP DSSSPVPSSPAMASAIECHSPYTSPA AHWSSPGASPYLKQPPALTPSSN  
PAASAGLHSSMSSYSLEQSYLHQ NAREDL SVGLPRYQH HSTPVCDRKDFVLNFNGISSFH  
PSASGSYYHHHQ SVCQDIKPCVM

>sp|P98177|FOX O4\_HUMAN Forkhead box protein O4 OS=Homo sapiens GN=FOX O4 PE=1 SV=5

MDPGNENSATEAAAIIDLDPDFEPQSRPRSCTWPLPRPEIANQPSEPPEVEPDLGEKVHT  
EGRSEPIILLPSRLPEPAGGPQPGILGAVTGPRKGSR RNAWGNQSYAELISQAIESAPEK  
RLTLAQIYEW MVRTVPYFKDKGDSNSSAGWKNSIRHNL SLHSKFIKVHNEATGKSSWWML  
NPEGKSGKAPRRRAASMDSSSKLLRGRSKAPKKKPSVLPAPPEGATPTSPVGHFAKWSG  
SPCSRNREEADMWTTFRPRSSSNASSVSTRLSPLRPESEVLAE EIPASVSSYAGGVPPTL  
NEGLELLDGLNLTSSHSLLSRGLSGFSLQHPGVTGPLHTYSSSLFSPAEGPLSAGEGCF  
SSSQALEALLTSDTPPPPADV LMTQVDPILSQAPTLLLLGGLPSSSKLATGVGLCPKPLE  
APGPSSLVPTLSMIAPPPVMASAPIPKALGTPVLTPTTEAASQDRMPQDL DLDMYMENLE

CDMDNIISDLMDEGEGLDFNFEPDP

>sp|A8MUU1|FB5L3\_HUMAN Putative fatty acid-binding protein 5-like protein 3 OS=Homo sapiens GN=FABP5P3 PE=5 SV=1

MGAMAKPDCIITCDSKNLTIKTESTLKTTQFSGTLGEKFEENTADGRRTQTVCNFTDGAL  
VQHQEWDGKESTITRKLKDGKLVVERVMNHVACTRIYEKAQ

>sp|Q5MNV8|FBX47\_HUMAN F-box only protein 47 OS=Homo sapiens GN=FBX047 PE=2 SV=2

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VKDISMLSMVSKTVSQHIINYISTSSGSKRLLQDFHNLELPDRRQDSATLEHYRSLGGL  
FKRCTLLLPKTERLKYIHKILTEVSCFKFNGCAAPMQCLGLTCYGMFLQTLTAGWDELEC  
HRVYNFLCELTNLCKRIQMAVCSKPGSAQKLELRIRLFCRNVLLDHWTHRSDSAFWLTRI  
LKPWPMVNQARLLYIFGPISPQDGQVWQEMIEEPTDEFSKGLADAIKLLYDASTKEW  
TADDVISLVDELSPVPREWLENNARLLMLSGNNICFSFMASKAVNGRTIELARLVVFLA  
LVCEKELYCMDWTVKMMQVKVFSTPVERKNFLQNVANAFACVIMEMLSIMSGDRDED  
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>sp|Q5XUX1|FBXW9\_HUMAN F-box/WD repeat-containing protein 9 OS=Homo sapiens GN=FBXW9 PE=1 SV=2

MELPLGRCDSDRTWDDSDPESETDPAQAKAYVARVLSPPKSGLAFSRPSQLSTPAASP  
SASEPRAASRVSAVSEPGLLSLPELLEICSYLDARLVHLVSRVCHALRDLVSDHVTW  
RLRALRRVRAPYPVVEKNFDWPAACIALEQHLSRWAEDGRWVEYFCLAEGHVASVDSVL  
LLQGGSLCLSGSRDRNVNLWDLRQLGTESNQVLIKTGLTKRNSTHEGWVWSLAAQDHRVC  
SGSWDSTVKLWMAADGQQFGEIKASSAVLCLSYLPDILVTGYDKVTIYDPRDRMETR  
DALMGWGGPSRGSDIPPHRPITHEAGPALLKHQQLHSRPVLTLLADDRHIISGSEDHTLV  
VVDRRANSVLQRLQLDSYLLCMSYQEPQLWAGDNQGLLHVAFNRNGCFQLIRSFVGHHSF  
PITGIQYSVGALYTTSTDKTIRVHVPTDPPRTICTRRHDNGLNRVCAEGLNVVAGSGDLS  
LEVWRLQA

>sp|Q8WWV6|FCAMR\_HUMAN High affinity immunoglobulin alpha and immunoglobulin mu Fc receptor OS=Homo sapiens GN=FCAMR PE=1 SV=1

MPLFLILCLLQGSSFALPQKRPHPRWLWEGSLPSRTHLRAMGTLRPSSPLCWREESSFAA  
PNSLKGSRVLSGEPGGAVTIQCHYAPSSVNRHQKRYWCRLGPPRWICQTIVSTNQYTHHR  
YRDRVALTDFPQRGFLFVRLSQLSPDDIGCYLCGIGSENNMLFLSMNLTISAGPASTLPT  
ATPAAGELTMSYGTASPVANRWTPGTTQTLGQGTAWDTVASTPGTSKTTASAEGRRTPG  
ATRPAPGTGSWAEGSVKAPAPIESPSPSKSRMSNTTEGVWEGTRSSVTNRARASKDRR  
EMTTTKADRPREDIEGVRIALDAKKVLGTIGPPALVSETLAWEILPQATPVSKQSQSGS  
IGETTPAAGMWTLTGPAADVWILGTPAADVWTSMEAASGEGSAAGDLDAATGDRGPQATL  
SQTPAVGPWGPPEGKESVKRTFPEDESSRTLAPVSTMLALFMLMALVLLQRKLWRRRTS  
QEAERVTLIQMTHFLEVNPQADQLPHVERKMLQDDSLPAGASLTAPERNP GP

>sp|Q01362|FCERB\_HUMAN High affinity immunoglobulin epsilon receptor subunit beta OS=Homo sapiens GN=MS4A2 PE=2 SV=1

MDTESNRRANLALPQEPSSVPAFEVLEISPQEVSSGRLLKSASSPPLHTWLTVLKKEQEF  
LGVTQILTAMICLCFGTVVCSVLDISHIEGDISSFKAGYPFWGAIFFSISGMLSIISER  
RNATYLVRGSLGANTASSIAGGTGITILIIINLKSLAYIIHSCQKFFETKCFMASFSTE  
IVVMMLFLTILGLGSAVSLTICGAGEELKGNKVPEDRVYEELNIYSATYSELEDPGEMSP  
PIDL

>sp|P30273|FCERG\_HUMAN High affinity immunoglobulin epsilon receptor subunit gamma

OS=Homo sapiens GN=FCER1G PE=1 SV=1

MIPAVVLLLLLLVEQAAALGEPQLCYILDAILFLYGIVLTLLYCRLKIQVRKAAITSYEK  
SDGVYTG LSTRNQET YETLKH EKP PQ

>sp|Q9Y6R7|FCGBP\_HUMAN IgGf c-binding protein OS=Homo sapiens GN=FCGBP PE=1 SV=3

MGALWSWWILWAGATLLWGLTQEASVDLKN TG REEF LTAFLQNYQLAYS KAYPRLLISSL  
SESPASVSILSQADNTSKKVTVRPGESVMVNISAKAEMIGSKIFQHAVVIHSDY A ISVQA  
LNAKPDTAELTLLRPIQALGTEYFVLTPPGTSARNVKEFAVVAGAAGASVSVTLKGSVTF  
NGKFYPAGDVL RVT LQPYNVAQLQSSVDLSGSKVTASSPVAVLSGHSCAQKH TTCNHVVE  
QLLP T SAWGTHYV VPTLASQSR YDLAFVVASQATKLTYNHGGITGSRGLQAGDVVEFEVR  
PSWPLYLSANVG IQVLLFGTGAIRNEVTYDPYLV LIPDVAAYCPAYVVKSVPGCEGVALV  
VAQTKAISGLTIDGHAVGAKLTWEAVPGSEFSYAEVELGTADMIHTAEATTNLGLLTFGL  
AKAIGYATAADCGRTV LSPVEPSCEGMQCAAGQRCQVVGKAGCVAESTAVCRAQGDPHY  
TTFDGRRYDMMGTCSYTMVELCSEDDTLPAFSVEAKNEHRGSRVS YVGLVTVRAYSHSV  
SLTRGEVGFVLVDNQRSRLPVSLSEGRLRVYQSGPRAVVELVFGLVVTYDWDCLALSLP  
ARFQDQVCGLCGNYNGDPADDFLTPDGALAPDAVEFASSWKLDDGDYLCEDGCQNNCPAC  
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VCLPGFVASGGACVPASSCGCTFQGLQLAPGQEVWADEL CQRRTCNGATHQVTCRDKQS  
CPAGERCSVQNGLLGCYPDRFGTCQGS GDPHYVSFDGRRFDFMGTC TYLLVGSCGQNAAL  
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QVFRQGRDAVVRTDFGLTVTYDWNARVTAKVPSSYAEALCGLCGNFNGDPADDLALRGGG  
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KLDPQGA VRDCVYDRCLLP GQSGPLCDALATYAAACQAAGATVHPWRSEELCPLSCPPHS  
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GQTFYPGPGCDSLCHQEGGLVSCSSSCGPHEACQPSGGS LGCVAVGSSTCQASGDPHY  
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LCSNIHAYVSACQAAGGHVEPWRTETFCPMECPPNSHYELCADTCSLGCSALSAPPQCQD  
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PFQLDSL LHAHLSGADV VTTTSGLSLAFDGSFVRLRVPAAYAGSLCGLCGNYNQDPAD  
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GLVPPAQYFQGCLLDACQVQGHPGGLCPAVATYVAACQAAG AQLREWRRP DFCPFQCPAH

SHYELCGDSCPGSCPSLSAPEGCESACREGCVCDAGFVLSGDTCPVPGQCGCLHDDRYYP  
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YTTFDGRRFDFMGTCVYVLAQTCGTRPGLHRFAVLQENVAWGNGRVSVTRVITVQVANFT  
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DGCAEGCQCDGFLYNGQACVPIQQCGCYHNGAYYEPEQTVLIDNCRQQCTCHVGKVVVC  
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CKALASYVAACQAAGVVIEDWRAQVGCEITCPENSHYEVCGPPCASPSPAPLTPAVC  
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SLVCTPASCGLGEVCGLLPSGQHGCQPVSTAECQAWGDPHYVTLDGHRFDFQGTCEYLLS  
APCHGPPLGAENFTVTVANEHRGSQAVSYTRSVTLQIYNHSLTLSARWPRKLQVDGVFVT  
LPFQLDSLHAHLSGADVVTTSGLSLAFDGD SFVRLRVPAAAYAGSLCGLCGNYNQDPA  
DDLKAVGGKPAGWQVGAQGCCEVSKPCSPCTPEQQESFGGPDACGVISATDGPLAPC  
HGLVPPAQYFQGCLLDACQVQGHPPGLCPAVATYVAACQAAGQLREWRRPDFCFQCPA  
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PHYHSFDGRKFDFQGTCTNYVLATTGCPGVSTQGLTPFTVTTKNQNRGNPAVSYVRVVTVA  
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LCKALASYVAACQAAGVVIEDWRAQVGCEITCPENSHYEVCGPPCASPSPAPLTPAV  
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GSLVCTPASCGLGEVCGLLPSGQHGCQPVSTAECQAWGDPHYVTLDGHRFDFQGTCEYLL  
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ALPFQLDSLHAHLSGADVVTTSGLSLAFDGD SFVRLRVPAAAYAASLCGLCGNYNQDP  
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CHGLVPPAQYFQGCLLDACQVQGHPPGLCPAVATYVAACQAAGQLGEWRRPDFCPLQCP  
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GIHYITLDGRVYDLHGSCSYVLAQVCHPKPGDEDFSIVLEKNAAGDLQRLLVTVAGQVVS  
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FLLSQGVCIPVQDCGCTHNGRYLPVNSSLLTSDCSESCSSSSGLTCQAAGCPPGRVCE  
VKAEARNCWATRGCLVLSVGANLTTFDGARGATTSPGVYELSSRCPGLQNTIPWYRVVAE  
VQICHGKTEAVGQVHIFFDGMVTLTPNKGWVWNGLRVDLPAEKLASVSVSRTPDGSLLV  
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SPCYG

>sp|P12314|FCGR1\_HUMAN High affinity immunoglobulin gamma Fc receptor I OS=Homo sapiens  
GN=FCGR1A PE=1 SV=2

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TATQTSTPSYRITSASVNDSGEYRCQRLSGRSDPIQLEIHRGWLLQVSSRVFTEGEPL  
ALRCHAWKDKLVYNVLYRNGKAFKFFHWNSNLTKTNISHNGTYHCSGMGKHRYTSAG  
ISVTVKELFPAPVLNASVTSPLEGNLVTLSCEKLLQRPGLQLYFSFYMGSKTLRGRN  
TSSEYQILTARREDSGLYWCEATEDGNVLKRSPLELQVLGLQLPTPVWFHVLFLAVG  
IMFLVNTVLWVTIRKELKRKKKWDLAISLDSGHEKKVVISSLQEDRHLEELKCEQKEEQ  
LQEGVHRKEPQGAT

>sp|Q92637|FCGRB\_HUMAN High affinity immunoglobulin gamma Fc receptor IB OS=Homo sapiens  
GN=FCGR1B PE=2 SV=1

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>sp|P55899|FCGRN\_HUMAN IgG receptor FcRn large subunit p51 OS=Homo sapiens GN=FCGR1 PE=1  
SV=1

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LGPNTSVPTAKFALNGEEMFNDLKQGTWGGDWPEALAIQRWQQDKAANKELTFLF  
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AAGTGQDGFNPNSDGSFHASSLTVKSGDEHHYCCIVQHAGLAQPLRVELESPAKSSVLV  
VGIVIGVLLLTAAVGGALLWRRMRSGLPAPWISLRGDDTGVLPTPGEAQDADLKDVNV  
IPATA

>sp|O14526|FCHO1\_HUMAN F-BAR domain only protein 1 OS=Homo sapiens GN=FCHO1 PE=1 SV=2

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ENVSVEMLLRKFAESKGTGREKPGPLDFEAYSAAALQEAMKRLRGAKAFRLPGLSRRERE  
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IKPAPARAPACSPAAAAQLRATAGSLILPPGPGTMKRHSSRDAAGKPQRPR SAPRTSS  
CAERLQSEEQVSKNLFPPLESFADHEDFTGSSSLGFTSSPSPFSSSPENVEDSGLDSP  
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PSFLSQTGHGVS RGPSPVVLGSQDALPIATAFTEYVHAYFRGHSPSCLARVTGELTMTFP  
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VPTPLTNVQILLPVGEPVTNVRLQPAATWNLEEKRLTWRLPDVSEAGGSGRLSASWEPLS  
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>sp|Q13630|FCL\_HUMAN GDP-L-fucose synthase OS=Homo sapiens GN=TSTA3 PE=1 SV=1

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KTTYPIDETMIHNGPPHNSNFGYSYAKRMIDVQNRAYFQQYGCTFTAVIPTNVFGPHDNF  
NIEDGHVLPGLIHKVHLAKSSGSALTWGTGNPRRQFIYSLDLAQLFIWVLREYNEVEPI  
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FKQAVKETCAWFTDNYEQARK

>sp|O00602|FCN1\_HUMAN Ficolin-1 OS=Homo sapiens GN=FCN1 PE=1 SV=2

MELSGATMARGLAVLLVFLHIKNLPAQAADTCPEVKVVGLEGSDKLTILRGCPGLPGAP  
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LLDRGYFLSGWHTIYLPDCRPLTVLCDMDTDGGGWTVFQRRMDGSVDFYRDWAAYKQGFG  
SQLGEFWLGNDNIHALTAQGSSELRVLDLDFEGNHQFAKYKSFKVADEAEKYKLVLGAFV  
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ANGINWSAAKGYSYKVSSEMKVRPA

>sp|Q6BAA4|FCRLB\_HUMAN Fc receptor-like B OS=Homo sapiens GN=FCRLB PE=1 SV=1

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VLRCRGWYDKVVYKLHYYHDGQAVRYFHSSANYTVLQARASDSGRYQCSGTMRIPIVESAP  
MFSAKVAVTVQELFRAPVLRVMGPREARGAALGGVLRCDTRLHPQKRDTPQLQFAFYKYS  
RAVRRFDWGAEYTVPEPEVEELESYWCEAATATRSVRKRSPWLQLPGPGSPLDPASTTAP  
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TTPVES

>sp|Q86WN1|FCSD1\_HUMAN F-BAR and double SH3 domains protein 1 OS=Homo sapiens GN=FCSD1  
PE=1 SV=1

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AGPFLKREGHRSGEMDSRGRTVFGAWRCLLDATVAGGQTRLQASDRYRDLAGGTGRSAKE  
QVLRKGTENLQRAQAEVLQSVRELSRSRKL YGQRERVWALAEKAADVQARLNRS DHGIF  
HSRTSLQKLSTKLSAQSAQYSQQLQAARNEYLLNLVATNAHL DHYYQEELPALLKALVSE  
LSEHLRDPLTSLSHTELEAAEVILEHAHRGEQTTSQVSWEQDLKLFLQEPGVFSPTPPQQ  
FQPAGTDQVCVLEWGAEGVAGKSGLEKEVQRLTSRAARDYKI QNHGHRVLQRLEQRRQQA  
SEREAPSIEQLQEVRESIRRAQVSQVKGAA RLALLQGAGLDVERWLKPAMTQAQDEVEQ  
ERRLSEARLSQRDLSPTAEDAELSDFECEETGELFEAPAPQALATRALPCPAHVVFYRQ  
AGREDEL TITEGEWLEVIEEGDADEWVKARNQHGEVGFVPERYLNFPDLSLPESQSDN  
PCGAEP TAF LAQALYSYTGQSAEELS FPEGALIRLLPRAQDGVDDGFWRGEFGGRVGVFP  
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DMMAPRLRPMRPPPPPAKAPDPGHPDPLT

>sp|Q9BQL6|FERM1\_HUMAN Fermitin family homolog 1 OS=Homo sapiens GN=FERMT1 PE=1 SV=1

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LWWEQKHCWLLKTHWTLDKYGVQADAKLLFTPQHKMLRLRLPNLKMVRLRVSFSAVVFKA  
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GLYSKTMPTIYDPINGTPASSTMTWFSDSLTEQNCSILAFSQPPQSPEALADMYQPRSL  
VDKAKLNAGWLDSSRSLMEQGIQEDELRLRFKYYSFFDLNPKYDAVRINQLYEQARWAI  
LLEEIDCTEEEMLIFAALQYHISKLSLSAETQDFAGESEVDEIEAALSNLEVTLEGGKAD  
SLEDITDIPKLADNLKLFPRKKLLPKAFKQYWFIFKDTSIAYFKNKELEQGEPLEKLN  
RGCEVVPDVNVAGRKFGLKLLIPVADGMNEMYLRCDHENQYAQWMAACMLASKGKTADS  
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QNVAQMPLVEAKLRFIAWQSLPEFGLTYYLVRFKGSKKDDILGVSYNRLIKIDAATGIP  
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>sp|P07332|FES\_HUMAN Tyrosine-protein kinase Fes/Fps OS=Homo sapiens GN=FES PE=1 SV=3

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>sp|P02765|FETUA\_HUMAN Alpha-2-HS-glycoprotein OS=Homo sapiens GN=AHSG PE=1 SV=1

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QLEEISRAQLVPLPPSTYVEFTVSGTDCVAKEATEAAKCNLLAEKQYGFCKATLSEKLGG  
AEVAVTCTVFQTPVTSQPQPEGANEAVPTPVDPDAPSPPLGAPGLPPAGSPDPSHVL  
LAAPPGHQLHRAHYDLRHTFMGVVSLGSPSGEVSHPRKTRTVVQPSVGAAAGPVVPPCPG  
RIRHFKV

>sp|Q9UGM5|FETUB\_HUMAN Fetuin-B OS=Homo sapiens GN=FETUB PE=1 SV=2

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FYMNNPSRVLYLAAYNCTLRPVSKKKIYMTCPDCPSIPTDSSNHQVLEAATESLAKYNN  
ENTSKQYSLFKVTRASSQWVVGPSYFVEYLKESPTKSKQASSCSLQSSDSVPVGLCKGS  
LTRTHWEKFVSVTCDFEFESQAPATGSENSAVNQKPTNLKVEESQQKNTPTDSPSKAGP  
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>sp|Q99581|FEV\_HUMAN Protein FEV OS=Homo sapiens GN=FEV PE=1 SV=1

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MVGVGGGDVEDVTPRPGGCQISGRGARGCNGIPGAAWEAALPRRRPRRHPSVNPRSRAA

GSPRTRGRRTEERPSGSR LGDRGRGRALPGGRLGGRGRGRAPERVGGGRGRGRGTAAPRAA  
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RVDGVREKSDPHIKLQLQAEERGVVSIKGVCANRYLAMKEDGRLLASKCVTDECFFERL  
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>sp|A6NMB9|FIGL2\_HUMAN Putative fidgetin-like protein 2 OS=Homo sapiens GN=FIGNL2 PE=5  
SV=2

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GGGGGSGALGGSPVLAGNLPEPLYAGNACGGPSAAPEYAAAGYGGYLAPGYCAQTGAALP  
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LPAPAPPTAYGFPTAAPGAESGLSLKRKAADGPEGRYKYAYEPAKAPVADGASYPAAD  
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VPSGETPKGVDPGALELVTSMVDCGPPVQWADVAGQGALKAALEELVWPLLRPAYPG  
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RCRPPSVLLISELEALLPARDDGAAAGGALQVPLLACLDGGCGAGADGVLVVGTTSRPAA  
LDEATRRRFSLRFYVALPDSPARGQILQRALAQQGCALSERELAALVQGTQGFSGGELGQ  
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>sp|Q5D862|FILA2\_HUMAN Filaggrin-2 OS=Homo sapiens GN=FLG2 PE=1 SV=1

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HQSSYGQHGS GSSQSSGYGQH GSSSGQTSGFGQHRSSSGQYSGFGQHGS GSGQSSGFGQH  
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ESTVHERHETTYGQTGEATGHGHS GHGQSTQRGSRTTGRRGSGHSESSDSEVHSGGSHRP  
QSQEQTHGQAGSQHGESGSTVHGRHGTTHGQTGDTTRAHYHHGKSTQRGSSTTGRRGSG  
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GVSHTHSGHAHGQAGSQHGESGSSVHERHGTTHGQTGDTTRHAHSGHGQSTQRGSRTAGR  
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SQQRQPGSTVHGRLETHGQTGDTTRHGSHGYGQSTQTGSRSSRASHFQSHSSERQRHGS  
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>sp|Q9NYL4|FKBP11\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP11 OS=Homo sapiens  
GN=FKBP11 PE=1 SV=1

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KRGFPSPVPADAVVQYDVELIALIRANYWLKLVKGILPLVGMAMVPALLGLIGYHLYRKA  
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>sp|Q5TIM5|FKBP15\_HUMAN FK506-binding protein 15 OS=Homo sapiens GN=FKBP15 PE=1 SV=2

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VLSQDLIVADGPAVEVGDSLEVAYTGWLFQNHVLGQVFDSTANKDKLLRLKLGSGKVIK  
WEDGMLGMKKGGKRLIVPPACAVGSEGVIGWTQATDSILVFEVEVRRVKFARDSGSDGH  
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KAKLISRMAMGQPMPLPILPPQLDSNDSEIEDVNTLQGGGQPVVTPSVQPSLHPAHPALP  
QMTSQAPQPSVTGLQAPSAALMQVSSLDSSHSAVSGNAQSFQPYAGMQAYAYPQASAVTSQ  
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QKHSAGNSMLIPMSVTMETSMIMSNIQRI IQENERLKQEILEKSNRIEEQNDKISELIE  
RNQRYVEQSNLMMEKRNSLQTATENTQARVLHAEQEKAKVTEELAAATAQVSHLQLKMT  
AHQKKETELQMQLTESLKETDLLRGQLTKVQAKLSELQETSEQAQSKFKSEKQNRKQLEL  
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EFELEESYNGRTIILGTIMNTIKMVTQLLNQQEQEKEESSSEEEEEKAEERPRRPSQEQS  
ASASSGQPQAPLNRERPESPMVPEQVVEEAVPLPPQALTTSQDGHRRKGDSEAEALSEI  
KDGSLPPELSCIPSHRVLGPTSIPPEPLGPVSMDECEESLAASPMAPKPDNPSGKVCV  
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>sp|O95302|FKBP9\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP9 OS=Homo sapiens GN=FKBP9  
PE=1 SV=2

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QASLVFDVALLDLHNPKDSIS IENKVPENCERISQSGDFLRYHYNGTLLDGTFLDSSYS  
RNRTFDITYIGQGYVIPGMDDELLGVCIGEKRRIVVPPHLGYGEEGRGNIPGSAVLVFDIH  
VIDFHNPSDSISITSHYKPPDCSVLSKKGDYLYKHYNASLLDGTLLDSTWNLGKTYNIVL  
GSGQVVLGMDMGLREMCVGEKRTVIIPPHLGYGEAGVDGEVPGSAVLVFDIELLELVAGL  
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>sp|Q8NFG4|FLCN\_HUMAN Folliculin OS=Homo sapiens GN=FLCN PE=1 SV=1

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VRQACVRSLSCEVCPGREGPIFFGDEQHGFVFSHTFFIKDSLARGFQRWYSIITIMMDRI  
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LTSLTSDDNLWACLHTSFAWLLKACGSRLTEKLLEGAPTEDTLVQMEKLADLEEESESWD  
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FRMLAWHVLGMGNQVIWKS RDVDLVQSAFEVLRMTLPVGCVRIPYSSQYEEAYRCNFGGL  
SPHVQIPPHVLSSEFAVIVEVHAAARSTLHPVGCEDDQSLSKYEFVVTSGSPVAADRVGP  
TILNKIEAALTQNLSVDVVDQCLVCLKEEWMNKVKVLFKFTKVDSPRKEDTQKLLSILG  
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>sp|Q9UGQ2|FLOWR\_HUMAN Calcium channel flower homolog OS=Homo sapiens GN=CACFD1 PE=1 SV=1

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>sp|Q9NZU0|FLRT3\_HUMAN Leucine-rich repeat transmembrane protein FLRT3 OS=Homo sapiens  
GN=FLRT3 PE=1 SV=1

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RLDDNRISTISSPSLQGLTSLKRLVLDGNLLNNHGLGDKVFFNLVNLTELSVRNSLTAA  
PVNLPGTNLRKLYLQDNHINRVPPNAFSYLRQLYRLDMSNNLSNLPQGIFDDLDNITQL  
ILRNNPWYCGCKMKWVRDWLQSLPVKVNVRGLMCQAPEKVRGMAIKDLNAELFDCKDSGI  
VSTIQITTAIPNTVYPAQQWPAPVTKQPDIKNPKLTKDHQTTGSPSRKTITITVKSPTS  
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PMETS NLYL FDETPVC IETETAPLRMYNPTTTLNREQEKEPYKNPNLPLAAIIGGAVALV  
TIALALLVCWYVHRNGSLFSRNCAYSKGRRRKDDYAEAGTKKDNSILEIRETSFQMLPIS  
NEPISKEEFVIHTIFPPNGMNLYKNNHSESSNRSYRDSGIPDSHSHS

>sp|Q8IX07|FOG1\_HUMAN Zinc finger protein ZFPM1 OS=Homo sapiens GN=ZFPM1 PE=1 SV=2

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SVQTRASSPQAEPSPAL TLLL VDEACWLRTLPQALTEAEANTEIHRKDDALWCRVTKPV  
PAGLLSVLLTAEPHSTPGHPVKKEPAEPTCPAPAHDLQLLPQQAGMASILATAVINKDV  
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CPSASSLEIHMRSHSGERPFVCLICLSAFTTKANCERHLKVHTDTLSGVCHSCGFISTTR  
DILYSHLVTNHMVCQPGSKGEIYSPGAGHPATKLPPDSLGSFQQQHTALQGPLASADLGL  
APTPSPGLDRKALAEATNGEARAEPLAQNGGSSEPPAAPRSIKVEAVEEPEAAPILGPGE  
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>sp|Q92915|FGF14\_HUMAN Fibroblast growth factor 14 OS=Homo sapiens GN=FGF14 PE=1 SV=1

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VNKSKTT

>sp|O43320|FGF16\_HUMAN Fibroblast growth factor 16 OS=Homo sapiens GN=FGF16 PE=1 SV=1

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GELYGSKKLTRECVFREQFEENWYNTYASTLYKHSDSERQYYVALNKDGSPREGYRTRH  
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>sp|Q08830|FGL1\_HUMAN Fibrinogen-like protein 1 OS=Homo sapiens GN=FGL1 PE=1 SV=3

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TVIQRSDGSENFNRGWKDYENGFGNFVQKHGEYWLGNKNLHFLTQEDYTLKIDLADFE  
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>sp|Q9NVK5|FGOP2\_HUMAN FGFR1 oncogene partner 2 OS=Homo sapiens GN=FGFR1OP2 PE=1 SV=1

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ALVTNSDLSLRKS

>sp|P49789|FHIT\_HUMAN Bis(5'-adenosyl)-triphosphatase OS=Homo sapiens GN=FHIT PE=1 SV=3

MSFRFGQLIKPSVVLKTELSFALVNRKPVVPGHVLVCPLRPVERFHDLPDEVADLFQ  
TTQRVGTVVEKHFGTSLTFSMQDGPEAGQTVKHVHVHVLPRKAGDFHRNDSIYEELQKH  
DKEDFPASWRSEEEEMAAEAAALRVYFQ

>sp|POC7X4|FHL19\_HUMAN Putative ferritin heavy polypeptide-like 19 OS=Homo sapiens  
GN=FTH1P19 PE=5 SV=1

MAFYFDQDDAALEHFDYFLRQSQEKREHAQELMSLQNLRGGRICLHDIRKPEGQGWESG  
LKAMECTFHLEKNINQSLLEHLQLARENGDPQLCDFLENDFLNQQAKTIKELGGYLSNLH

KMGAPEAGLAEYLFNKLTLGRSQKHTRAQTGPTATGCLPLLAPPGGTSMFQNFILFIFL  
LSVLPLLAIKLSVLKAIKVSS

>sp|Q13642|FHL1\_HUMAN Four and a half LIM domains protein 1 OS=Homo sapiens GN=FHL1 PE=1  
SV=4

MAEKFDCHYCRDPLQGKKYVQKDGHHCLCKCFDKFCANTCVECRKPIGADSKEVHYKNRF  
WHDTCFRCAKCLHPLANETFVAKDNLKILCNKCTTREDSPKCKGCFKAIVAGDQNVYKGT  
VWHKDCFTCSNCKQVIGTGSFFPKGEDFYCVTCHETKFAKHCVKCNKAITSGGITYQDQP  
WHADCFVCVTCSSKLAGQRFTAVEDQYYCVCYKNFVAKKAGCKNPITGKRTVSRVSH  
VSKARKPPVCHGKRLPLTLFPSANLRGRHPGGERTCPSWVVVLYRKNRSLAAPRGPLVK  
APVWWPMKDNPGTTTASTAKNAP

>sp|Q02985|FHR3\_HUMAN Complement factor H-related protein 3 OS=Homo sapiens GN=CFHR3 PE=1  
SV=2

MLLLINVILTLWVSCANGQVKPCDFDIKHGGLFHENMRRPYFPVAVGKYYSYDCDEHFE  
TPSGSYWDYIHCTQNGWSPAVPCLRKCYFPYLENGYNQNYGRKFVQGNSTEVACHPGYGL  
PKAQTTVTCTEKWSPTPRCIRVRTCSKSDIEIENGFISSSIYILNKEIQYCKPGYA  
TADGNSSGSITCLQNGWSAQPICINSSEKCGPPPPISNGDTSFLLKVYVPQSRVEYQCQ  
PYYELQGSNYVTCSNGEWSEPPRCIHPCIITEENMNKNKILKGRSDRKYYAKTGDTIEF  
MCKLGYNANTSILSFQAVCREGIVEYPRCE

>sp|O60774|FMO6\_HUMAN Putative dimethylaniline monooxygenase [N-oxide-forming] 6 OS=Homo  
sapiens GN=FMO6P PE=5 SV=1

MSKRVGIIGAGVSGLAAIWCCLEEGLEPTCFERSDDVGGLWKFSDHTEGRASIYQSVFT  
NSSKEMMCFPDFPYDDYPNYIHHSKLQEYIKTYAQKKDLLRYIQFETLVSGIKKPSFL  
VTGQWVVVTEKDQKQESTIFDAVMICSGHHVYPNLPTDSFPGLDQFRGNYLHSRDYKNPE  
AFKGRVLVIGLGNSSGDIAVELSRLATQV IISTRASWMSRVWDDGYPWDMYVTRFA  
SFLRNVLPSPFISDWLYVQKMNTWFKHENYGLMPLNGSLRKEPVFNDELPSRILCGTSLIK  
PSVKEFTETSAVFEDGTMFEAIDSVIFATGYDYSYPFLDETIMKSRNNEVTLFKGFPPPL  
MEKPTLAVIGLVQSLGAAIPTADLQAWWAAKVAFNSCTLPTTNEMMDDTDEKMGKKLKCM  
FSSFFMFGQSQTLDYITYVDELGSFIGAKPNIPWLFLTDPRLALEVYFGPCSPYQFRL  
MGPGKWDGARNAILTQWNRTVKPTRTRVVSEVQRPHPFYNLLKMLSFPLLLLAVTLTFY

>sp|Q9H479|FN3K\_HUMAN Fructosamine-3-kinase OS=Homo sapiens GN=FN3K PE=1 SV=1

MEQLLRAELRTATLRAFGGPGAGCISEGRAYDTDAGPVFVKVNRRTQARQMFEGEVASLE  
ALRSTGLVRVPRPMKVIDLPGGAAAFVMEHLKMKSLSSQASKLGEQMA DLHLYNQKLREK  
LKEEENTVGRRGEGAEPQYVDKFGFHTVTCCGFIPQVNEWQDDWPTFFARHRLQAQLDLI  
EKDYADREARELWSRLQVKIPDLFCGLEIVPALLHGDLWSGNVAEDDVGP IYDPASFYG  
HSEFELAIALMFGGFPRSFFTAYHRKIPKAPGFDQRLLLYQLFNYLNHWNHFGREYRSPS  
LGTMRRLK

>sp|P41439|FOLR3\_HUMAN Folate receptor gamma OS=Homo sapiens GN=FOLR3 PE=1 SV=1

MAWQMMQLLLLALVTAAGSAQPR SARARTDLLNVCMAKHHKTQSPPEDELYGQCSPWKK  
NACCTASTSQELHKDTSRLYNFNWDHCGKMEPTCKRHFIQDSCLYECSPLGPWIRQVNQ  
SWRKERILNVPLCKEDCERWWEDCRTSYTCKSNWHKGWNWTSGINECPAGALCSTFESYF  
PTPAALCEGLWSHSFKVSNYSRSGRCIQMWFD SAQGNPNEEVAKFYAAAMNAGAPSRGI  
IDS

>sp|Q96NB1|FOPNL\_HUMAN Lish domain-containing protein FOPNL OS=Homo sapiens GN=FOPNL PE=1  
SV=1

MATVAELKAVLKDTLEKKGVLGHLKARIRAEVFNALDDDREPRPSLSHENLLINELIREY  
LEFNKYKYTASVLIAESGQPVVPLDRQFLIHELNAFEESKDNTIPLLYGILAHFLRGTKD  
GIQNAFLKGPSLQSPDPSLGRQPSRRKPMDDHLRKEEQKSTNIEDLHVSQAVNR

>sp|P55317|FOXA1\_HUMAN Hepatocyte nuclear factor 3-alpha OS=Homo sapiens GN=FOXA1 PE=1 SV=2

MLGTVKMEGHETSDWNSYYADTQEAYSSVPVSNMNSGLGSMNSMNTYMTNTMTTSGNMT  
PASFNMSYANPGLGAGLSPGAVAGMPGGSAGAMNSMTAAGVTAMGTALSPSGMGAMGAQQ  
AASMNGLGPYAAAMNPCMSPMAYAPSNLGRSRAGGGGDAKTFKRSYPHAKPPYSYISLIT  
MAIQQAPSKMLTLSEIYQWIMDLFPYYRQNRQNRQNSIRHLSFNDCFVKVARSPDKPGK  
GSYWTLHPDSGNMFENGCYLRRQKRFKCEKQPGAGGGGGSGSGSGAKGGPESRKDPSGA  
SNPSADSPLHRGVHGKTGQLEGAPAPGPAASPQTLDHSGATATGGASELKTPASSTAPPI  
SSGPGALASVPASHPAHGLAPHESQLHLKGDPHYSFNHPFSINNLMSSSEQQHKLDFKAY  
EQALQYSPYGSTLPASLPLGSASVTTRSPIEPSALEPAYYQGVYSRVLNTS

>sp|Q12948|FOXC1\_HUMAN Forkhead box protein C1 OS=Homo sapiens GN=FOXC1 PE=1 SV=3

MQARYSVSSPNSLGVVYPLGGEQSYRAAAAAAGGGYTAMPAPMSVYSHPAHAEEQYPGGM  
ARAYGPYTPQPQPKDMVKPPYSYIALITMAIQNAPDKKITLNGIYQFIMDRFPFYRDNKQ  
GWQNSIRHNLSLNECFVKVPRDDKKPGKGSYWTLPDSYNMFENGSLRRRRRFRKKDAV  
KDKEEKDRLHLKEPPPPGRQPPAPPEQADGNAPGPQPPPVRIQDIKTENGTCPSPPQPL  
SPAAALGSGSAAAVPKIESPDSSSSSLSSGSSPPGSLPSARPLSLDGADSAPPPAPSAP  
PPHHSQGFSVDNIMTSLRGSPQSAALSSGLLASAAASSRAGIAPPLALGAYSPGQSSL  
YSSPCSQTSSAGSSGGGGGAGAAGGAGGAGTYHCNLQAMSLYAAGERGGHLQGAPGGAG  
GSAVDDPLPDYSLPPVTSSSSSSLSHGGGGGGGGGEAGHHPAAHQGRLTSWYLNQAGG  
DLGHLASAAAAAAGYPGQQNFHSVREMFESQRIGLNNSPVNGNSSCQMAFPSSQSLY  
RTSGAFVYDCSKF

>sp|O60548|FOXD2\_HUMAN Forkhead box protein D2 OS=Homo sapiens GN=FOXD2 PE=1 SV=2

MTLGSCCCEIMSSSESPAALSEADADIDVGGGSGGGELPARSGPRAPRDVLPHGHEPPA  
EEAEADLAEEDEESGGCSDGEPRALASRGAAAAAGSPGPGAAAARGAAGPGPGPPSGGAA  
TRSPLVKPPYSYIALITMAILQSPKKRLTLSEICEFISGRFPYYREKFPQNSIRHNLS  
LNDCFVKIPREPNGPKGNYWTLPESADMFDNGSFLRRRKRFRQPLPPPHPHPHPHPE  
LLLGGAAAAGDPGAFLPGFAAYGAYGYGLALPAYGAPPPGPAPHPHPHPHAFAFAAA  
AAAAPCQLSVPPGRAAAPPPGPPTASVFAGAGSAPAPAPASGSGPGPGPAGLPAFLGAE  
LGCALFYAASLPPAAGTAAGLPTALLRQGLKTAGGGAGGGGAGAGQRPFSIDHIMGH  
GGGGAAPPGAGEGSPGPPFAAAGPGGQAQVLAMLTAPALAPVAGHIRLSHPGDALLSSG  
SRFASKVAGLSGCHF

>sp|Q12950|FOXD4\_HUMAN Forkhead box protein D4 OS=Homo sapiens GN=FOXD4 PE=2 SV=4

MNLPRERLRSTPQRSRLRSDGEDGKIDVLGEEDEDEEEAASQQFLEQSLQPLQVARW  
GGVALPREHIEGGGGSPDSEFGTEFRAPPSAAAASEDARQPAKPPSYIALITMAILQS  
PHKRLTLSGICAFISDRFPYYRRKFPQNSIRHNLSLNDCFVKIPREPGRPGKGYWSL  
DPASQDMFDNGSFLRRRKRFRHQPTPGAHLPHFPPLPAAHAALHNPRPGPLLGAAPPQ  
PVPGAYPNTGPGRRPYALLHPPPRYLLSAPAYAGAPKKAEGADLATPAPFPCCSPHLV  
LSLGRRARVWRRHREADASLSALRVSCKSGSERVQGLRRVCPRPRGATAPCSSDRQACRT  
ILQQQQRHQEEDCANGCAPTKGAVLGHLASAALLRYQVAEGSGLTSLAAPLGEGTS  
PVFLVSPTPSSLAESAGPS

>sp|Q12946|FOXF1\_HUMAN Forkhead box protein F1 OS=Homo sapiens GN=FOXF1 PE=1 SV=2



MSSAPEKQQPPHGGGGGGGGGAAMDPAASSGSPSKAKKTNAGIRRPEKPPYSYIALIVMA  
IQSSPTKRLTLSEIYQFLQSRFPFFRGSYQGWKNSVRHNLNLNECFIKLPKGLGRPCKGH  
YWTIDPASEFMFEESFRRRRPRGRFRRKCQALKPMYSMMNGLGFNHLPDITYGFQGSAGGLS  
CPPNSLALEGGGLMMNGHLPGNVDGMALPSHSVPHLPNSGGHSYMGCGGAAAGEYPHHD  
SSVPASPLLTGAGGVMEPHAVYSGSAAWPPSASAAALNSGASYIKQQPLSPCNPAANPL  
SGSLSTHSLEQPYLHQNSHNAPAEELQGIPRYHSQSPSMCDRKEFVFSFNAMASSSMHSAG  
GGSYYHQVQTYQDIKPCVM

>sp|P85037|FOXK1\_HUMAN Forkhead box protein K1 OS=Homo sapiens GN=FOXK1 PE=1 SV=1

MAEVEDSGARALLALRSAPCSPVLCAAAAAAFPAAPPAPAPQPPPPGPPPPPPPL  
PPGAIAGAGSSGGSSGVSGDSAVAGAAPALVAAAAASVRQSPGPALARLEGREFEFLMRQ  
PSVTIGRNSSQGSVDLSMGLSSFISRRHLQLSFQEPHFYLRCLGKNGVFDGAFQRRGAP  
ALQLPKQCTFRFPSTAIKIQTSLYHKEEAPASPLRPLYPQISPLKIHIEPDLRSMVSP  
VPSPTGTISVPNSCPASPRGAGSSSYRFVQNVTSDLQAAEFAAKAASEQQADTSGGDSP  
KDESKPPFSYAQLIVQAISSAQDRQLTSGIYAHITKHYPYRTADKGWQNSIRHNLNLN  
RYFIKVPRSQEEPGKGSFWRIDPASEAKLVEQAFRKRRQGVSCFRTPFGPLSSRSAPAS  
PTHPLMSPRSGGLQTPECLSREGSPIPHDPEFGSKLASVPEYRYSQSAPGSPVSAQPV  
MAVPPRPSSSLVAKPVAYMPASIVTSQQPAGHAIHVQQAPTVTMVRVVTTSANSANGYIL  
TSQGAAGGSHDAAGAAVLDLGSEARGLEEKPTIAFATIPAAGGVIQTVASQMAPGVP  
GHTVTILQPATPVTLGQHHLPVRAVTQNGKHAVPTNSLAGNAYALTSPLQLLATQASSAPV  
VTRVCEVGPKEPAAVAATATTTPATATTASASASTGEPEVKRSRVEEPSGAVTTPAGV  
IAAAGPQPGTGTE

>sp|Q12952|FOXL1\_HUMAN Forkhead box protein L1 OS=Homo sapiens GN=FOXL1 PE=2 SV=2

MSHLFDPRLPALAASPMLLYLGPERPGLPLAFAPAAALAASGRAETPQKPPYSYIALIAM  
AIQDAPEQRVTNLNGIYQFIMDRFPFYHDNRQGWQNSIRHNLNLNDCFVKVPREKGRPGKG  
SYWTLDPRLCLDMFENGNYRRRKRPKPGGAPEAKRPRAETHQRSAAEQPEAGSGAGGSG  
PAISRLQAAPAGPSPLLDGPPAPLHWPGTASPNEDAGDAAQGAAGAVVGAARTGDGP  
GSPLRPASRSSPKSSDKSKSFSIDSILAGKQGKPPSGDELLGGAKPGPGGRLGASLLAA  
SSSLRPPFNASMLDPHVQGGFYQLGIPFLSYFPLQVPDVLHFQ

>sp|A8MYZ6|FOXO6\_HUMAN Forkhead box protein O6 OS=Homo sapiens GN=FOXO6 PE=1 SV=1

MAAKLRAHQVDVDPDFAPQSRPRSCTWPLPQPDLAGDEDGALGAGVAEGAEDCGPERRAT  
APAMAPAPPLGAEVGPLRKAKSSRRNAWGNLSYADLITKAIESAPDKRLTSLQIYDWMVR  
YVPYFKDKGDSNSSAGWNSIRHNLNLHTRFIRVQNEGTGKSSWWMLNPEGKTKTPRR  
RAVSMDNAGKFLRIKGAKKKQLQAPERSPDDSSPSAPAPGPVPAKWAASPAHASD  
DYEAWADFRRGGRPLLGAAAELEDEALEALAPSSPLMYPSPASALSPALGSRCPGELPR  
LAELGGPLGLHGGGAGLPEGLLDGAQDAYGPRPAPRPGPVLGAPGELALAGAAAYPGK  
GAAPYAPPAPSRSAHAHPISLMTLPGEAGAAGLAPPGHAAAFGGPPGGLLDALPGPYAA  
AAAGPLGAAPDRFPADLDLDMFSGSLECDVESIILNDFMDSDEMDFNFDSALPPPPGLA  
GAPPPNQSWVPG

>sp|O95876|FRITZ\_HUMAN WD repeat-containing and planar cell polarity effector protein  
fritz homolog OS=Homo sapiens GN=WDPCP PE=1 SV=2

MRREFCWDAYSKAAGSRASSPLPRQDRDSFCHQMSFCLTELHLWSLKNLTHIADRDIGIY  
QYYDKKDPATEHGNEKKQLAESRDYPWTLKNRRPEKLRLDSLKEELMQNSRCVLSK  
WKNKYVCQLLFGSGVLVSLSLSGPQLEKVVIDRSLVGKLISDTISDALLTDSFIILSFLA  
QNKLCFIQFTKKMESSDVNKRLEKLSALDYKIFYEIPGPINKTTERHLAINCVHDRVVC

WWPLVNDDAWPWAPISSEKDRANLLLGYAQGRLEVLSVRTEWDPLDVRFGTKQPYQVF  
TVEHSVSVDKEPMADSCIYECIRNKIQCVSVTRIPLKSKAISCCRNVEDKLIIGCEDSS  
LILYETHRRVTLAQTELLPSLISCHPSGAILLVGSNQGELQIFDMALSPINIQLLAEDR  
LPRETLQFSKLFDASSSLVQMQUIAPQVVSQKGEQSDIYDLLFLRFERGPLGVLLFKLGV  
FTRGQLGLIDIIFQYIHCDEIYEAINILSSMNWDTLGHQCFISMSAIVNHLRQKLTPER  
EAQLETSLGTFYAPTRPLLDSTILEYRDQISKYARRFFHLLRYQRFEKAFLAVDVGAR  
DLFMDIHYLALDKGELALAEVARKRASDIDAESITSGVELLGPLDRGDMLEAFIGLSLA  
PQGEDSFDPNLPSPCPTHRHILQQRILNGSSNRQIIDRRNELEKDICSGLMTNTCNAED  
GELREDGREQEIRDGGSLKMIHFGLV

>sp|Q96NE9|FRMD6\_HUMAN FERM domain-containing protein 6 OS=Homo sapiens GN=FRMD6 PE=1  
SV=1

MNKNLFHNNRVMQDRRSVCIFLPNDESLNIIINVKILCHQLLVQVCDLLRLKDCHLFGLS  
VIQNEHVYMELSQKLYKYCPKEWKKEASKVRQYEVTWGIDQFGPPMI IHFRVQYYVENG  
RLISDRAARYYYYWHLRKQVLHSQCVLREEAYFLAALQADLGNFKRNKHYGKYFEPE  
AYFPSWVVSQRGKDYILKHIPNMHKDQFALTASEAHLKYIKEAVRLDDVAVHYRYLKDK  
REIEASLTGLTMRGIQIFQNLDEEKQLLYDFPWTNVGKLVFVGKKFEILPDGLPSARKL  
IYYTGCPMRSRHLLQLLSNSHRLYMNLPVLRHIRKLEENEEKKQYRESYISDNLDLMD  
QLEKRSRASGSSAGSMKHKRLSRHSTASHSSHTSGIEADTKPRDTGPEDSYSSSAIHRK  
LKTCSMTSHGSSHTSGVESGGKDRLEEDLQDDEIEMLVDDPRDLEQMNEESLEVSPDMC  
IYITEDMLMSRKLNGHSLIVKEIGSSTSSSSETTVVKLRGQSTDSLPTICRKPSTDR  
HSLSLDDIRLYQKDFLRIAGLCQDTAQSYTFGCGHELDEEGLYCNSCLAQQCINIQDAFP  
VKRTSKYFSLDLTHDEVPEFVV

>sp|Q6ZUT3|FRMD7\_HUMAN FERM domain-containing protein 7 OS=Homo sapiens GN=FRMD7 PE=1  
SV=1

MLHLKVQFLDDSQKIFVVDQKSSGKALFNLSCSHLNLAKEYFGLEFCSHSGNNVWLELL  
KPITKQVKNPKEIVFKFMVKFPVDPGHLREELTRYLFTLQIKKDLALGRLPCSDNCTAL  
MVSHILQSELGDFHEETDRKHLAQTRYLPNQDCLEGKIMHFHQKHIGRSPAESDILLDI  
ARKLDMYGIRPHPASDGEGMIHLAVAHMGVLVLRGNTKINTFNWAKIRKLSFKRKHFLI  
KLHANILVLCKDTLEFTMASRDACKAFWKTCEYHAFFRLSEEPKSKPKTLLCSKGSSFR  
YSGRTQRQLLEYGRKGRLKSLPFERKHYPQYHERQCRSSPDLLSDVSKQVEDLRLAYGG  
GYYQNNGVHASEPVLESRRRNSALEVTFATELEHSEKPEADPTLLHQSQSSSFPIYMD  
PVFNTEPNPNPDPRDIFSERSSLSFQTSCKFSGNHMSIYGLTSKVRPAKQTYTDVPY  
IPCTGQQVGIMPPQVFFYVDKPPQVPRWSPIRAEERTSPHSYVEPTAMKPAERSPRNIRM  
KSFQQDLQVLQEAIAARTSGRSNINVGLEEDPNLEDAFVCNIQEQTPKRSQSQSDMKTIR  
FPFGSEFRPLGPCPALSHKADLFTDMFAEQELPAVLMDQSTAERYVASESSDSESEILKP  
DYYALYGKEIRSPMARIRLSSGSLQLDEEDEDAYFNTPTAEDRTSLKPCNYFLA

>sp|Q6P4F1|FUT10\_HUMAN Alpha-(1,3)-fucosyltransferase 10 OS=Homo sapiens GN=FUT10 PE=2  
SV=2

MVRIQRRKLLASCLCVTATVFLVLVTLQVMVELGKFERKEFKSSSLQDGHTKMEEAPTHLN  
SFLKKEGLTFNRKRKWEIDSYIMLWWSPLTGETGRLGQCGADACFFTINRTYLHHHMTK  
AFLFYGTDFNIDSLPLRKAHHDWAVFHEESPKNNYKLFHKPVITLFNYTATFSRHSHLP  
LTTQYLESIEVLKSLRYLVPLQSKNKLKRLAPLVYVQSDCDPPSDRDSYVRELMTYIEV  
DSYGECLRNDLPQQLKNPASMDADGFYRIIAQYKFILAFENAVCDDYITEKFWRPLKLG  
VVPVYYGSPSITDWLPSNKSAILVSEFShPRELASYIRRLSDDRLYEAYVEWKLKGEIS

NQRLLTALRERKWGVQDVNQDNYIDAFECMVCTKVWANIRLQEKGLPPKRWEAEDTHLSC  
PEPTVFAFSPLRTPPLSSLREMWISSFEQSKKEAALRWLVDRNQNFSSQEFWGLVFKD  
>sp|Q9ULW2|FZD10\_HUMAN Frizzled-10 OS=Homo sapiens GN=FZD10 PE=1 SV=1  
MQRPGPRLWLVLQVMGSCAAISSMDMERPGDGKCQPIEIPMCKDIGNMTRMPNLMGHEN  
QREAAIQLHEFAPLVEYGCHGLRFFFLCSLYAPMCTEQVSTPIACRVMCEQARLKCSP I  
MEQFNFKWPDSLDCRKLPNKNDPNYLCMEAPNNGSDEPTRGSGLFPPLFRPQRPHSAQEH  
PLKDGPGPRGGCDNPGKFHHVEKSASCAPLCTPGVDVYWSREDKRFVWLAIWAVLCFF  
SSAFTVLTFLIDPARFRYPERPIIFLSMCYCVYSGYLIRLFAGAESIACDRDSGQLYVI  
QEGLESTGCTLVFLVLYYFGMASSLWWVLTLTWFLAAGKKWGHEAIEANSSYFHAAWA  
IPAVKTILILVMRRVAGDELTVGYVGSMDVNALTGFVLIPLACYLVIGTSFILSGFVAL  
FHIRRMKTTGGENTDKLEKLMVRIGLFSVLVYTPATCVIACYFYERLNDYWKILAAQHK  
CKMNNQTKTLDCLMAASIPAVEIFMVKIFMLLVVGITSGMWIWTSTLQSWQQVCSRRLK  
KKSRRKPASVITSGGIYKKAQHPQKTHHGKYEIPAQSPTCV

>sp|Q9UP38|FZD1\_HUMAN Frizzled-1 OS=Homo sapiens GN=FZD1 PE=1 SV=2  
MAEEEAPKKSRAAGGASWELCAGALSARLAEEGSGDAGRRRPPVDPRLARQLLLLLLW  
LLEAPLLLGVRAAAGQGPGGPGPGQPPPPPPQQQSGQYNGERGISVPDHGYCQPIS  
IPLCTDIAYNQTIMPNLLGHTNQEDAGLEVHQFYPLVKVQCSAELKFFLCSMYAPVCTVL  
EQALPPCRSLCERARQGCEALMNKFGFQWPDTLKCEKFPVHGAGELCVGQNTSDKGTPTP  
SLLPEFWTSNPQHGGGGHRRGGFPGGAGASERKGFSCPRALKVPSYLNHFLGEKDCGAPC  
EPTKVYGLMYFGPEELRFSRTWIGIWSVLCCASTLFTVLTYLVDMMRRFSYPERPIIFLSG  
CYTAVAVAYIAGFLEDRVVCNDKFAEDGARTVAQGTKEGCTILFMMLYFFSMASSIWW  
VILSLTWFLAAGMKWGHEAIEANSQYFHAAWAVPAIKTITILALGQVDGDLVSGVCFVG  
LNNVDALRGFVLAPLFFVYLFIGTSFLLAGFVSLFRIRTIMKHDGTEKLEKLMVRIGVF  
SVLYTPATIVIACYFYEQAFRDQWERSWAQCKSYAIPCPHLQAGGGAPPHPPMSPDF  
TVFMIKYLMTLIVGITSGFWIWSGKTLNSWRKFYTRLTNSKQGETTV

>sp|Q13467|FZD5\_HUMAN Frizzled-5 OS=Homo sapiens GN=FZD5 PE=1 SV=2  
MARPDPSAPPSLLLLLLAQLVGRAAAASKAPVCQEITVPMCRGIGYNLTHMPNQFNHDTQ  
DEAGLEVHQFWPLVEIQCSLDLRFLLCSMYTPICLPDYHKPLPPCRSVCERAKAGCSPLM  
RQYGFAPWPERMSCDRLPVLGRDAEVLCDYNRSEATTAPPRFPKPTLPGPPGAPASGG  
ECPAGGPFVCKCREPFVPIKESHPLYNKVRTGQVPNCAVPCYQPSFSADERTFATFWIG  
LWSVLCFISTSTTVATFLIDMERFRYPERPIIFLSACYLCVSLGFLVRLVVGHASVACSR  
EHNHIIHYETGPACTIVFLLVYFFGMASSIWWVILSLTWFLAAGMKWGNEAIIAGYAQYF  
HLAAWLIPSVKSITALALSSVDGDPVAGICYVGNQNLNSLRGFVLGPLVLYLLVGTFLFL  
AGFVSLFRIRSVIKQGGTKTDKLEKLMIRIGIFTLLYTPASIVVACYLYEQHYRESWEA  
ALTACPGHDTGQPRAKPEYWVLMKYFMCLVVGITSGVWIWSGKTVESWRRFTSRCCCR  
PRRGHKSGGAMAAGDYPEASAALTGRGTGPPGPAATYHKQVSLSHV

>sp|Q9H461|FZD8\_HUMAN Frizzled-8 OS=Homo sapiens GN=FZD8 PE=1 SV=1  
MEWGYLLEVTSLAALALLQRSSGAAAASAKELACQEITVPLCKGIGYNYTMPNQFNHD  
TQDEAGLEVHQFWPLVEIQCSLDLRFLLCSMYTPICLEDYKKPLPPCRSVCERAKAGCAP  
LMRQYGFAPWDRMRCDRLPEQGNPDTLCDYNRTDLTTAAPSPRRRLPPPPPGEQPPSGS  
GHGRPPGARPPHRRGGGRGGGGDAAAPPARGGGGGGKARPPGGAAPCEPGCQCRAPMVS  
VSSERHPLYNRVKTGQIANCALPCHNPFFSQDERAFTVFWIGLWSVLCFVSTFATVSTFL  
IDMERFKYPERPIIFLSACYLFVSVGYLVRLVAGHEKVACSGGAPGAGGAGGAGGAAAGA  
GAAGAGAGGPGGRGEYEELGAVEQHVRVYETGPACTVVFLLVYFFGMASSIWWVILSLT

WFLAAGMKWGNEAIAGYSQYFHLAAWLVPVSVKSI AVLALSSVDGDPVAGICYVGNQSLDN  
LRGFVLAPLVIYLFITGMFLLAGFVSLFRIRSVIKQDGP TKTHKLEKLMIRLGLFTVLY  
TVPAVVVACLFYEQHNRPRWEATHNCPCLRDLQPDQARRPDYAVFMLKYFMCLVVGITS  
GVVWWSGKTLESWRSLCTRCCWASKGA AVGGGAGATAAGGGGGPGGGGGGGPGGGGGPGG  
GGGSLYSDVSTGLTWRSGTASSVSYPKQMPLSQV

>sp|P62684|GA113\_HUMAN Endogenous retrovirus group K member 113 Gag polyprotein OS=Homo sapiens GN=HERVK\_113 PE=1 SV=2

MGQTKSKI KSKYASYLSFIKILLKRGGVKSTKNLIKLFQIIEQFCPWFEQGTLDLKD  
KRIGKELKQAGRKGNIIPLTVNDWAI IKAALPEPFQTEEDSVSVSDAPGSCI IDCNEKTR  
KKSQKETESLHCEYVAEPVMAQSTQNADYNQLQEVIYPETLKLEGKGP ELMGPSKPRG  
TSPLPAGQVPVTLQPKQVKENKTQPPVAYQYWPPAELQYQPPESQYGYPMPPAPQGR  
APYPQPPTRRLNPTAPPSRQGSSELHEI IDKS RKEGDTEAWQFPVTLELMPPGEGAQEGEP  
PTVEARYKSFSIKMLKDMKEGVKQYGPNSPYMRTLDSIAHGHR LIPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQVRRNRANPPVNI DADQLLGIGQNWSTISQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSI ADEKARKVIVELMA  
YENANPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLKKNCPVLNKQNTITIQATTGREPPDLCP RCKKGKHWSQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGA FPIQPFVPQGFQGGQPPLSQVFQGISQLPQYNNCP PP  
QAAVQQ

>sp|Q96PS6|GAFA1\_HUMAN Putative uncharacterized protein GAFA-1 OS=Homo sapiens GN=GAFA1 PE=4 SV=1

MIKHSWIHLV MASAMSSSPIFFFFQRWSLTLSLRLECSSAI IKPTAASN SCVQVNLPPS  
MCDYRHEPLCLAF L

>sp|A6NGK3|GAG10\_HUMAN G antigen 10 OS=Homo sapiens GN=GAGE10 PE=1 SV=1

MSWRGRSTYRSRPLYVEPPEMIGPMLPEQFSDEVEPATPEEGEPATQRQDPAAAQEGED  
EGASAGQGPKEADSQEQVHPKTGCECGDPDQEMGLPNPEEVKRPEEGEKQSQC

>sp|Q4V326|GAG2E\_HUMAN G antigen 2E OS=Homo sapiens GN=GAGE2E PE=3 SV=1

MSWRGRSTYRPRRRYVEPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGED  
EGASAGQGPKEADSQEQGHPQTGCECEDGPDQEMDPPNPEEVKTPEEGKKQSQC

>sp|Q13065|GAGE1\_HUMAN G antigen 1 OS=Homo sapiens GN=GAGE1 PE=1 SV=2

MSWRGRSTYYYWPRRRYVQPPMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGE  
DEGASAGQGPKEADSQEQGHPQTGCECEDGPDQEMDPPNPEEVKTPEEEMRSHYVAQT  
GILWLLMNNCFLNLSPRKP

>sp|P14207|FOLR2\_HUMAN Folate receptor beta OS=Homo sapiens GN=FOLR2 PE=1 SV=4

MVWKWMPLLLLLVCVATMCSAQDRD LLNVCM DAKHHKTKPGPEDKLHDQCSPWKKNACC  
TASTSQELHKDTSRLYNFNWDHCGKMEPACKRHF IQDTCLYECSPNLGPWIIQQVNQSWRK  
ERFLDVPLCKEDCQRWEDCHTSH TCKSNWHRGWDWTS GVNKCPAGALCRTFESYFPTPA  
ALCEGLWSHSYKVS NYSRSGRCIQMWFDSAQGNPNEEVARFYAAAMHVNAGEMLHGTGG  
LLLSLALMLQLWLLG

>sp|P21462|FPR1\_HUMAN fMet-Leu-Phe receptor OS=Homo sapiens GN=FPR1 PE=1 SV=3

METNSSLPTNISGGTPAVSAGYLFLDIITYLVFAVTFVLGVLGNGLVIWVAGFRMTHTVT  
TISYLNLA VADFCFTSLPFFMVRKAMGGHWPFGWFLCKFVFTIVDINLFGSVFLIALIA  
LDRCVCVLHPVWTQNHRTVSLAKKVI IG PVMALLLTLPVIRVTTVPKGTGT VACTFNF  
SPWTNDPKERINVAAMLTVRGIIRFIIGFSAPMSIVAVSYGLIATKIHKQGLIKSSRPL

RVLSFVAAAFFLCWSPYQVVALIATVRIRELLQGMKEIGIAVDVTSALAFFNSCLNPML  
YVFMGQDFRERLIHALPASLERALTEDSTQTS DTATNSTLPSAEVELQAK

>sp|P25090|FPR2\_HUMAN N-formyl peptide receptor 2 OS=Homo sapiens GN=FPR2 PE=2 SV=2

METNFSTPLNEYEEVSYESAGYTVLRILPLVVLGVTFLVGLGNGLVIWVAGFRMTRVT  
TICYLNALADFSFTATLPFLIVSMAMGEKWPFGWFLCKLIHIVVDINLFGSVFLIGFIA  
LDRCICVLHPVWAQNHRTVSLAMKVIVGPWILALVLTLPVFLFLT TTVTIPNGDTYCTFNF  
ASWGGTPEERLKVAITMLTARGIIRFVIGFSLPMSIVAICYGLIAAKIHKKGMIKSSRPL  
RVLTAVVASFFICWFPFQLVALLGTVWLKEMLFYGYKIIDILVNPTSSLAFFNSCLNPM  
LYVFGQDFRERLIHSLPTSLERALSEDSAPTNDTAANSASPPAETELQAM

>sp|AOAVI2|FRIL5\_HUMAN Fer-1-like protein 5 OS=Homo sapiens GN=FERIL5 PE=2 SV=2

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SFLQVTLQDMGSQKKERFIGLATVLLKPLLKQPSEVLFVKDLTLLNHSMKPTDCTVTLQV  
AHMSNQDIEKTGAEDHLGITAREAASQKLMVPGSTAHRALSSKPQHFQVRVKVFEARQLM  
GNNIKPVVKVSIAGQQHQTRIKMGNNPFFNEIFFQNFHEVPAKFFDETILIQTDIGFIYH  
SPGHTLLRKWLGLCPNNPGSGVTGYLKVTIYALGVGDQALIDQKLLYGTDDTDIQIFKS  
AVVPINMAYLQLFIYCAEDLHLKKHQSVPNPQLEVELIGEKL RTHMQTQTDNP IWNQILTF  
RIQLPCLSSYIKFRVLDCRKKDCPDEIGTASLSLNQISSTGEEIEGKQSLEPTSYPTRY  
SGFLPCFGPSFLT LHGGKKAPFRIQEEGACIPDSVRDGLAYRGRVFLELITQIKSYQDST  
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KSTRNPKDPALLYQWEKLLRELAEDCKRPLPCMTYQPKATSLDRKRWQLRSLLLQELAQA  
AKQAKPKDMVATAEDWLRLNTVLPPEQMGLPDVMIWLVAKEQRVAYAQVPAHSVLFSPA  
GALHSGRLCGKIQTFLFYPEGEGQKDVLP AHLRVCMWLGNVTD SKDLQLLRQGD TAVYA  
EMYENQAKYKDQWGQQGLYHCPNFSDVMGNKTLPM TDFQPPLGWHWQDSWTVEPQRRLLL  
DIDINKSQVLEEVENQGRDTRGAWGPAAI PNTDVNGQPMEARENKCPQGWHFKKDWV  
ELNHA VDSWEYGVGIPPSGLPQVWSPVEKTYHSCRRRRWARVRFRNHGELSHEQETLSFL  
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QRQDTRPPNLPFIYCTFNKPHYQLFCYIYQARNLVSNQILTFQGPFI RVVFLNHSQCTQ  
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WLDLQDRILPPMRWHPLVKELGKEEGEILASCELILQTEKLGEKQLPILSVPWKNGAYTL  
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LVLTVMPTEEAYALPLVVKVDNWA FGQQT VGTGQANIDFLQPYFCDPWAQDYMHPKLPT  
LSEKKHQDFGLYL RKFWFKSSKAEDYEHEVDWWSKLFWATDEHKS LKYKYKDYHTLV  
YECELEAVPAFQGLQDFCQTFKLYQE QPKLDSPVVGEFKGLFRIYPF PENPEAPKPPLQF  
LVWPEREDFPQPCLVRVYMVRAINLPQDYNGLCDPYVILKLGKTELGNRDMYQPNTLDP  
IFGMMFELTCNIPLEKDLEIQLYDFDLFSPDDKIGTTVIDLENRLLSGFGAHCGLSKSYC  
QSGPFRWRDQMPPSYLLERYAKRKGLPPPLFSPEEDAVFYNGKKFKLQSFEPKTPTVHGL  
GPKKERLALYLLHTQGLVPEHVETRTLYSHSQPGIDQGKVMWVDIFPKKLGP GPQVNI  
NPRKPKRKASEHSGHRYELRCI IWK TANVDLVDDNLSREKTSDIYIKGWLYGLEKDMQKT  
DIHYHSLTGEADFNWRFI FTMDYLAAERTCVQS QKDYIWSLDATSMKF PARLI IQVWDND  
IFSPDDFLGVLELDLSDMPLPARHAKQCSIRMDADPKWPYFIQYKHFSLFKKKTVTGWW  
PCQVLDGGKWRLSGVKMSLEILSEKEALIKPAGRGQSEPNQYPTLHPPLRTNTSFTWLR  
SPVQNFCYIFWKRYRFKLIAFMVISIIALMLFNFIYSAPHYLAMSWIKPQLQLYPPIKIF

NIINSLNTSNASSSILPTQDPNLKPTIDHEWKLHPGPTNHLSDIFPELPAPGD

>sp|Q86XX4|FRAS1\_HUMAN Extracellular matrix protein FRAS1 OS=Homo sapiens GN=FRAS1 PE=1 SV=2

MGVLKVVWGLALALAEFAVLPHHSEGACVYQDSLLADATIWKPDSCQSCRCHGDIVICKP  
AVCRNPQCAFEKGEVLQIAANQCCPECVLRTPGSCHEKKIHEHGTEWASSPCSVCSCHN  
GEVRCTPQPCPLSCGHQELAFIPEGSCCPVCVGLGKPCSYEGHVFQDGEDWRLSRCACK  
LCRNGVAQCFTAQCQPLFCNQDETIVVRVPGKCCPQCSARSCSAAGQVYEHGEQWSENACT  
TCICDRGEVRCHKQACLPLRCGKGQSRARRHGQCCEECVSPAGSCSYDGVVRYQDEMWK  
SACEFCMDHGQVTCQTGECAKVECARDEELIHLDGKCCPECISRNGYCVYEETGEFMSS  
NASEVKRIPEGEKWEDGPCKVCECRGAQVTCYEPSCPPCPVGTALAEVKGQCCPDCTSVH  
CHPDCLTCSQSPDHCDLQDPTKLLQNGWCVHSCGLGFYQAGSLCLACQPQCSTCTSGLE  
CSSCQPPLLMRHGQCVPTCGDGFYQDRHSCAVCHESCAGCWGPTEKHCLACRDPLHVL  
RDGGCESSCGKGFYNRQGTCSACDQSCDSCGPSSPRCLTCTEKTVLHDGKCMSECPGGY  
ADATGRCKVCHNSCASCSTPSHCTACSPPKALRQGHCLPRCGEGFYSDHGVCKACHSSCL  
ACMGPPASHCTGCKPEEGLQVEQLSDVGIPSGECLAQCRAHFYLESTGICEACHQSCFR  
CAGKSPHNCTDCGPSHVLLDGQLSQCPDGYFHQEGSCTECHPTCRQCHGPLESDCISCY  
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GIVWYRHSGAPAQSDSFRFEVSSASNAQTRLESHMFNIALPQTPEAPKVSLEAS  
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IRYFTQEDINQKVMYRPPPAAPHLQELMAFSFAGLPESVKFHFTVSDGEHTSP  
EMVLTIHLLPSDQQLPVFQVTAPRLAVSPGGSTSVGLQVVV RDAETAPKELFF  
ELRRPQHGVLLKHTAEFRRPMATGDTFTYEDVEKNALQYIHDGSSTR EDSMEI  
SVTDGLTVMLEVRVEVLSSEDRGPRLAAGSSLSITVASKSTAIITRSHLAYVD  
DSSPDPEIWIQLNYLPSYGTLLRISGSEVEELSEVSNFTMEDINNKKIRYSAV  
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RAPLSFHFFFATDDDDNLQRDAIIKLSALPKYGCIENTGTGDRFGPETASDLEA  
SFPIQDVLENYIYFQSVHESIEPTHDIFSFYSDGTSRSEIHSINITIERKNDE  
PPRMTLQPLRVQLSSGVVISNSSLSLQDLDPDNELIFVLTKKPDHGHVLRQT  
ASEPLENGRVLVQGSTFTYQDILAGLVGYVPSVPGMVVDEFQFSLTDGLHVD  
TGRMKIYTELPASDTPHLAINQGLQLSAGSVARITEQHLKVTDIDSDDHQV  
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PGGSFAFKFDVVDGEGNRLIDKSFSISISEDKSPPVITTNKGLVDENS  
VKKITTLQLSATDQDSGPTELIRITRQPQLGHLEHAASPGIQISSFTQADLTS  
RNVQYVHSSEAEKHSDAFSFTLSDGVSEVTQTFHITLHPVDDSLPVVQNLG  
MRVQEGMRKTITEFELKAVDADTEAESVTFTIVQPPRHGTIERTSNGQHF  
HLTSTFTMKDIYQNRVSYSHDGSNSLKDRFTFTVSDGTNPFFIIIEGGKE  
IMTAAPQPFRVDILPVDDGTPRIVTNLGLQWLEYMDGKATN

LITKKELLTMDPDTEDAQLVYEITTGPKHGFVENKLQPGRAAATFTQEDVNLGLIRYVLH  
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IVSAICYTVPKSAMGSLFYALESGSDFKSRGMSAASRVIFGPGVTMSTCDVMLIDDSEYE  
EEEEFEIALADASDNARIGRVATAKVLISGPNDASTVSLGNTAFTVSEDAGTVKIPVIRH  
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QFRVYLGPLGNHWSGARIGKNNMATITISNDEDAPTIEFEEAAYQVREPAGPDAIAILN  
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GVKKSPSPGYPLVCVTPCDPHFPRYAVMKERCSEAGINQTSVQFSWEVAAPTNGARSP  
FETITDNTPTSVNHMVLDISIYFSRRFHVRCVAKAVDKVGHVGTPLRSNIVTIGTDSAIC  
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FLLSESIYRHQHVCNLTVTYDLRGLAEAGFLDDVVDSTALGPGYDRPFQFDPSVREP  
TIQLYKHLNLKSCVWTFDAYYDMTELIDVCGGSVTADFQVRDSAQSFLTVMHPLYVSYIY  
VTAPRGWASLEHHTEMEFSSFFDYTVLWRTGIQTDSVLSARLQIIRIYIREDGRLVIEFKT  
HAKFRGQFVMEHHTLPEVKSFVLTPDHLGGIEFDLQLLWSAQTFDSPHQLWRATSSYNRK  
DYSGEYTIYLIPTVQPTQPWVDPGEKPLACTAHAPERFLIPIAFQQTNRPVVPVYSLNT  
EFQLCNEKVFLMDPNTSDMSLAEMDYKGAFSKGQILYGRVLWNPEQNLNSAYKLQLEKV  
YLCTGKDGYVPFFDPTGTIYNEGPQYGCIPKNHLKHFLLLDNRNQPEVTDKYFHDVPFE  
AHFASELPDFHVVSNMPPGVDGFTLKVDALYKVEAGHQWYLQVIYIIGPDTISGPRVQRSL  
TAPLRRNRRLDLEPDGQLILDDSLIYDNEGDQVKNGTNMKSLEMLQELAVAASLSQTGA  
SIGSALAAIMLLLLVFLVACFINRKCQKQKQKPAEDILEEYPLNTKVEVPKRHPDRVEK  
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>sp|Q5H8C1|FREM1\_HUMAN FRAS1-related extracellular matrix protein 1 OS=Homo sapiens  
GN=FREM1 PE=1 SV=3

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FILWVYLLEPDCNIHMSNNVLEVPEFNGLSQAIDKNLLRFDYDRMASLECTVSLDTART  
RLPAHGQMVLEGEPRPEPRGDQPHSFFPESQLRAKLKCPGGSCPTGLKKIGSLKVSCEEF  
LLMGLRYQHLDPPSPNIDYISIQDLTDTRSKIYKSESAWLPVYIRAGIPNQIPKAAFM  
AVFILEVDQFILTSLTTSVLDCEEDETPKPLLVFNITKAPLQGYVTHLLDHTRPISSFTW  
KDLSDMQIAYQPPNSSHSERRHDEVELEVYDFFERSAPMTVHISIRTADTNAPRVSWNT  
GLSLEGGQSRAITWEQFQVVDNDDIGAVRLVTVGGLQHGWLTLRGKGFLFTVADLQAGV  
VRYHDDSDSTKDFVFRIFDGHHSIRHKFPINVLPKDDSPFLITNVVIELEEGQTILI  
QGSMLRASVDASDDYIFFNITKPPQAGEIMKKPGPLIGYPVHGFLQRDLFNGIIYYRH  
FGGEIFEDSFQFVLWDSHEPPNLSVPQVATIHITPVDDQLPEAPGVSRLVVKETEVA  
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FTQHAVNYMKVAYMPPMQDIGPHCRDVQFTFSVSNQHGGTLHGICFNITILPVDNQVPEA  
FTNPLKVTEGGQSIISTEHLISDADTKLDNIDLSLRELPLHGRVELNGFPLNSGGTFSW  
GDLHTLKVRYQHDGTEVLQDDLLLEVTDGTNSAEFVLHVEVFPVNDPEPVLKADLMPVMN  
CSEGGEVVITSEYIFATDVSDNLKLMFVIAREPQHGVVRRAGVTVDQFSQRDVISEAVT

YKHTGGEIGLMPCFDTITLVSDGEAGPFVNGCCYNGPNPSVPLHASFPVYDLNITVYPV  
DNQPPSIAIGPVFVDEGCSTALTVNHLSATDPDTAADDLEFVLVSPQFGYLENILPSV  
GFEKSNIGISIDSFQWKMDNAFHINYVQSRHLRIEPTADQFTVYVTDGKHHSLEIPFSII  
INPTNDEAPDFVQVQNTVCEGQMKELDSSIISAVDL DIPQDALLFSITQKPRHGLLIDRG  
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NGQLQLKIGRDWVPLSPGMKCTQEEVDLNLRLYTHTGAMDSQNQDSFTFYLDGNNRSPA  
LDCQITIKDMEKGDIVILTKPLVSVKGDGRGFLTTTTLLAVDGTDKPEELLYVITSPPRYG  
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TVDRALPVVTRNGLRLAQGAVGLLSPDLLQLTDPDTPAENLTFLLVQLPQHGLYLWGT  
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LENTTTGEFIHEKFSQKDLNSKITLYIINPSLEVNSDTVEFQIMDPTGNSATPQILELKW  
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DPGMSTKMWNIAITYDGLEEDDEVFEVILNSPVNAVLTGKTAAVKILDSKGGQCHPSYS  
SNQSKHSTWEKGIWHLLPPGSSSSTTSGSFHLERRPLPSSMQLAVIRGDTLRGFDSTDLS  
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WSPQTKDVEDKSCPAGWHQHSGYCHILITEQKGTWNAQAACREQYLGNLVTVFSRQHMR  
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>sp|043559|FRS3\_HUMAN Fibroblast growth factor receptor substrate 3 OS=Homo sapiens  
GN=FRS3 PE=1 SV=3

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RNSHPAELDLPRAPQPPNALGYTVSSFSNGCPGEGPRFSAPRRLSTSSLRHPSLGEESTH  
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KFVLGPTPARRHVMKQGLCPSLHDPHHNNNEAPSECPAQPKCTYENV TGGLWRGAGW  
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PDGEEDETPLQKPTSTRAAIRSHGSFPVPLTRRRGSPRVNFDFRRPGPEPPRQLNYIQV  
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>sp|A8MWK0|FS2P1\_HUMAN Putative fatty acid desaturase 2-like protein FADS2P1 OS=Homo  
sapiens GN=FADS2P1 PE=5 SV=2

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LYLKPLLIIGELAPGEPQSERHKNSQLVKDFQELWSIAEAMNMFHANLGFFFLHFVQILIL  
EVLAWLIVYHFGSGWPVTMFISFLTISQASSSFLQHDAGHLSIFRKS KWNHVHVKFVMC  
HLKGLSADRWNWYHFEQHV KPNIYPKDPDIDTDPLFLLGDSQPVKYGGKKIKYIN YEEQH  
LYFYKWLPLFMPVYLKLPQMAMYLQRYWVCFSLQDITWVSSFYIYFITFGLYYGIFGT  
MLLIYLVKFLESPWIVYVTQMSHITMRMSTEENRDWLT TQVLATCNTESFFNDFTGHLNF  
QIEHHLFPTMPRHNHYKVAPLVRSLCAKHGLHYVNKPM LRAFGDIVRALKKSAA LWADAY  
YE



>sp|P23945|FSHR\_HUMAN Follicle-stimulating hormone receptor OS=Homo sapiens GN=FSHR PE=1 SV=3

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I QKGA FSGFGDLEKIEISQNDVLEVI EADVFSNLPKLHEIRIEKANNLLYINPEAFQNL  
P NLQYLLISNTGIKHLDPVHKIHS LQKVLLDIQDNINIHTIERN SFVGLSFESVILWLNKN  
GIQEIH NCAFNGTQLDELNLS DNNLEELPNDV FHGASGPVILDISRTRIHS LPSYGLEN  
LKKLRARSTYNLKKLP TLEKLVALMEASLTYP SHCCAFANWRRQISELHPICNKSILRQE  
VDYMTQARGQRSSLAEDNESSYR GFDMTYTEFDYDL CNEVVDVTCSPKPD AFNP CEDIM  
GYNILRVLIWFISILAITGNIIVLVILTTSQYKLTVP RFLMCNLAFADLCIGIYLLLIAS  
VDIHTKSQYHNYAIDWQTGAGCDAAGFFT VFASELSVYTLTAITLERWHTITHAMQLDCK  
VQLRHAASVMVMGWIFAF AAALFPIFGISSYMKVSI CLPMDIDSPLSQLYVMSLLVLNVL  
AFVVICGCIHIYLTVRNPNI VSSSDTRI AKRMAMLI FTDFLCMAPI SFFAISASLKVP  
LITVSKAKILLVLFHPINSCANPFLYAIFTKNFRRDFFILL SKCGCYEMQAQIYRTETSS  
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>sp|Q8NA03|FSIP1\_HUMAN Fibrous sheath-interacting protein 1 OS=Homo sapiens GN=FSIP1 PE=2 SV=1

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KMKKLDKILAKKQRREKEIKKQGLEMRIKLWEEIKSAKYSEAWQSKEEMENTKKFLSLTA  
VSEETVGPSHEEEDTFSSVFHTQIPPEEYEMQM QKLNKDFTCDVERNESLIKSGKKPFSN  
TEKIELRGKHNDFIKRNI ELAKESRNPVVMVDREKKRLVELLKD LDEKDSGLSSSEG DQ  
SGWVVPVKG YELAVTQHQLAEIDIKLQELSAASPTISSFS PRLNRRNQKPD RDGERNM  
EVTPEGKILRNTKEQRDLHNR LREIDEKLMMKENVLEST SCLSEEQLKCLLDECILKQK  
SIIKLSSERKKEDIEDVTPVFPQLSR SII SKLLNESETKVQKTEVEDADMLESEECEASK  
GYLTKALTGHNMSEALVTEAENMKCLQFSKDVII SDTKDYFMSKTLGIGRLKRPSFLDD  
PLYGISVSLSSDQHLKLSSPENTIAD EQETKDAAEECKEP

>sp|Q12841|FSTL1\_HUMAN Follistatin-related protein 1 OS=Homo sapiens GN=FSTL1 PE=1 SV=1

MWKRWLALALAVAVAWRAEEELRSKSKICANVFCGAGRECAVTEKGEPTCLCIEQCKP  
HKRPVCGSNGKTYLNHCELHRDACTGSKIQVDYDGHCKEKKSVSPSASPVV CYQSNRDE  
LRRRIIQWLEAEIIPDGWFSKGSNYSEILD KYFKNFDNGDSRLDSSEFLKFVEQNETAIN  
ITTPDQENNKLLRGLCVDALIELSDENADWKL SFQEFLKCLNPSFNPPEKKCALEDETY  
ADGAETEVD CNRCVCACGNWVCTAMTC DGKNQKGAQTQT EEEMTRYVQELQKHQETA EKT  
KRVSTKEI

>sp|Q8N4E7|FTMT\_HUMAN Ferritin, mitochondrial OS=Homo sapiens GN=FTMT PE=1 SV=1

MLSCFRLLSRHISPSLASLRPVRC CFALPLRWAPGRPLDPRQIAPRRPLAAAASSRDPTG  
PAAGPSRV RQNFHPDSEAAINRQINLELYASYVYLSMAYYFSRDDVALN NFSRYFLHQSR  
EETEHA EKLMLRQNRGGRIRLQDIKKPEQDDWESGLHAMECALLLEKNVNQS LLELHAL  
ASDKGDPHLCDFLETYYLNEQVKS IKELGDHVHNLVKMGAPDAGLA EYLFDTHTLGNENK  
QN

>sp|Q9C0B1|FTO\_HUMAN Alpha-ketoglutarate-dependent dioxygenase FTO OS=Homo sapiens GN=FTO PE=1 SV=3

MKRTPTAEEREREAKKLRLLEELEDTWLPYLTPKDDEFYQQWQLKYPKLILREASSVSEE  
LHKEVQEAF LTLHKHGCLFRDLVRIQ GKDLLTPVSRILIGNPGCTYKYLNTRLFTVPWPV  
KGSNIKHTAEIAAACETFLKLN DYLQIETIQALEELA AKEKANEDAVPLCMSADFP RVG

MGSSYNGQDEVDIKSRAAYNVTLNFMDPQKMPYLKEEPYFGMGKMAVSWHHDENLVDRS  
AVAVYSYSCGPEEESEDDSHLEGRDPDIWHVGFKISWDIETPGLAIPLHQGDCYFMLDD  
LNATHQHCVLAGSQPRFSSTHRVAECSTGTLDYILQRCQLALQNVCDVDNDVSLKSFE  
PAVLKQGEEIHNEVEFEWLRFWFQGNRYRKCTDWWCQPMALQLEALWKKMEGVNAVLHE  
VKREGLPVEQRNEILTAILASLTARQNLRREWHARCQSRIARTLPADQKPECRPYWEKDD  
ASMPLPFDLTDIVSELRGQLLEAKP

>sp|Q9BWH2|FUND2\_HUMAN FUN14 domain-containing protein 2 OS=Homo sapiens GN=FUND2 PE=1  
SV=2

METSAPRAGSQVVATTARHSAAYRADPLRVSSRDKLTEMAASSQGNFEGNFESDLAEFA  
KKQPWWRKLFQGESGPSAEKYSVATQLFIGGVTGWCTGFIQKVGKLAATAVGGGFLLQ  
LANHTGYIKVDWQRVEKDMKAKEQLKIRKSNQIPTEVRSKAEVVSFVKKNVLVTGGFF  
GGFLLGMAS

>sp|P19526|FUT1\_HUMAN Galactoside 2-alpha-L-fucosyltransferase 1 OS=Homo sapiens GN=FUT1  
PE=2 SV=1

MWLRSHRQLCLAFLLVCVLSVIFFLHIHQDSFPHGLGLSILCPDRRLVTPPVAIFCLPGT  
AMGPNASSSCPQHPASLSGTWTVYPNGRFGNQMGQYATLLALAQLNGRRAFILPAMHAAL  
APVFRITLPVLAPEVDSRTPWRELQLHDWMSEYADLRDPFLKLSGFPCSWTFFHHLREQ  
IRREFTLHDHLREEAQSVLGQLRLGRTGDRPRTFVGHVHRRGDYLVMPQRWKGVVGDSA  
YLRQAMDWFRARHEAPVFVVTNNGMEWCKENIDTSQGDVTFAGDGQEATPWKDFALLTQC  
NHTIMTIGTFGFWAAYLAGGDTVYLANFTLPDSEFLKIFKPEAAFLPEWVGINADLSPLW  
TLAKP

>sp|Q10981|FUT2\_HUMAN Galactoside 2-alpha-L-fucosyltransferase 2 OS=Homo sapiens GN=FUT2  
PE=1 SV=1

MLVVQMPFSFPMAHFILFVFTVSTIFHVQQLAKIQAMWELPVQIPVLASTSKALGPSQL  
RGMWTINAIGRLGNQMGEYATLYALAKMNGRPAFIPAQMHSSTLAPIFRITLPVLHSATAS  
RIPWQNYHLNDWMEEEYRHIPGEYVRFYGYPCSWTFYHHLRQEILQEFTLHDHVREEAQK  
FLRGLQVNGSRPGTFVGHVHRRGDYVHVMPKVWKGVVADRRYLQQALDWFRARYSSLIFV  
VTSNGMAWCRENIDTSHGDVVFAGDGIEGSPAKDFALLTQCNHTIMTIGTFGIWAAYLTG  
GDTIYLANYTLPDSPFLKIFKPEAAFLPEWTGIAADLSPLLKH

>sp|P22083|FUT4\_HUMAN Alpha-(1,3)-fucosyltransferase 4 OS=Homo sapiens GN=FUT4 PE=2 SV=3

MRRLWGAARKPSGAGWEKEWAEAPQEAPGAWSGRLGPGRSGRKGRAVPGWASWPAHLALA  
ARPARHLGGAGQGRPLHSGTAPFHSRASGERQRRLEPQLQHESRCRSSTPADAWRAEAA  
LPVRAMGAPWGSPTAAAGGRRGWRRGRGLPWTVCVLAAAGLTCTALITYACWGQLPPLPW  
ASPTPSRPVGVLWWEPFGGRDSAPRPPDCRLRFNISGCRLLTDRASYGEAQAVLFHHR  
DLVKGPPDWPPWGIQAHTAEEDLRLVDYEEAAAAAEALATSSPRPPGQRVWMNFESP  
SHSPGLRSLASNLFNWTLNYSRADSDVFPYGYLYPRSHPGDPPSGLAPPLSRKQGLVAWV  
VSHWDERQARVRYHQLSQHVTVDVFGGGPGQPVPEIGLLHTVARYKPYLAFENSQHLD  
YITEKLWRNALLAGAVPVVLGPDRANYERFVPRGAFIHVDDFPSASSLASYLFLDRNPA  
VYRRYFHWRRSYAVHITSFWDEPWCRVCQAVQRAGDRPKSIRNLASWFER

>sp|Q9BT04|FUZZY\_HUMAN Protein fuzzy homolog OS=Homo sapiens GN=FUZ PE=1 SV=1

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQGNLEVQL  
SSARTENTTVVWKSFDHSITLIVLSSEVGISELRRLERLLQMVFGAMVLLVGLEELTNIRN  
VERLKKDLRASCYCLIDSFLGDSELIIGDLTQCVCVIPPEGSLQEAESGFAEAAGTTFVS  
LVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLPHGSPVPHRLTLTL

LPSLELCLLCGSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLL  
LLHLELKRCLFTVEPLGDKEPSPEQRRRLRNFYTLVTSTHFPPEPGPPEKTEDEVYQAQ  
LPRACYLVLGTEEPGTGVRVLVALQLGLRRLLLLLSPQSPHGLRSLATHLHALTPLL

>sp|Q4VC44|FWCH1\_HUMAN FLYWCH-type zinc finger-containing protein 1 OS=Homo sapiens  
GN=FLYWCH1 PE=1 SV=2

MPLPEPSEQEGESVKAGQEPSKPGTDVIPAAPRKPREFSKLVLLTASDQDEDGVGSKPQ  
EVHCVLSLEMAGPATLASTLQILPVEEQGGVVQPALEMPEQKCSKLDAAAPQSLEFLRTP  
FGGRLLVLESFLYKQEKAVGDKVYWKCRQHAELGCRGRAITRGLRATVMRGHCHAPDEQG  
LEARRQREKLPSLALPEGLGEPQGPEGPGGRVEEPLEGVGPWCPEEPEPTPGLVLSKPA  
LEEEEAPRALSLLSLPPKKRSILGLGQARPLEFLRTCYGGSFVHESFLYKREKAVGDKV  
YWTCDHALHGCRSRAITQGQRVTVMRGHCHQPDMEGLEARRQQEKAVETLQAGQDGPQS  
QVDTLLRGVDSLLYRRGPGPLTLTRPRPRKRAKVEDQELPTQPEAPDEHQDMDADPGGPE  
FLKTPLGGSFLVYESFLYRREKAAGEKVYWTCDQARMGCRSRAITQGRRVTVMRGHCHP  
PDLGGLEALRQREKRPNTAQRGSPGGPEFLKTPLGGSFLVYESFLYRREKAAGEKVYWT  
RDQARMGCRSRAITQGRRVMVMRRHCHPPDLGGLEALRQREHFPNLAQWSPDPLRPLEF  
LRTSLGGRFLVHESFLYRKEKAAGEKVYWMCRDQARLGCRSRAITQGHRIMVMRSHCHQP  
DLAGLEALRQRERLPTTAQQEDPEKIQVQLCFKTCSPESQQIYGDIKDVRLDGESQ

>sp|Q8WXT5|FX4L4\_HUMAN Forkhead box protein D4-like 4 OS=Homo sapiens GN=FOX4L4 PE=2  
SV=2

MNLPRAPERSTPQRSRLRSDSDGEDGKIDVLGEEDEDEVEDEEEEARQQFLEQSLQPGLQ  
VARWGGVALPREHIEGGGGSPDSEFGTKFRAPPRSAAASEDARQPAKPPYSYIALITMA  
ILQNPCHKRLTSGICAFISGRFPYRRKFPWQNSIRHNLSLNDCFVKIPREPGHPGKGN  
YWSLDPASQDMFDNGSFLRRRKRFKRHQLTPGAHLPHFPPLPAAHAALHNPHPGPLLGA  
APPQVPVGAYPNTAPGRRPYALLHPHPLRYLLLSARVYAGAPKKAEGADLATPAPFPCCS  
PHLVLSLGRRARVWRRHREADASLSALRVLCCKSGSERVQGLRRVCPRPRGATATCSSDHQ  
ACCIKPLPLCCKCPPPLLLGQFCNSSSIRRTAPTAAALPPARCWAGTCRPRRR

>sp|Q8NEE6|FXL13\_HUMAN F-box/LRR-repeat protein 13 OS=Homo sapiens GN=FBXL13 PE=2 SV=3

MTPELMIKACSFYTGHLVKTHFCTWRDIARTNENVLAEKMNAVTCYNFRLQKSVFHHW  
HSYMEDQKEKLNILLRIQIIYCHKLTIILTKWRNTARHKSKKKEDELILKHELQLKKW  
KNRLILKRAAAEESNFPERSSEVFLVDETLKCDISLLPERAILQIFFYLSLKDVIICGQ  
VNHAWMLMTQLNSLWNAIDFSSVKNVIPDKYIVSTLQRWRLNVLRLNFRGCLLRPKTFRS  
VSHCRNLQELNVSDCPTFTDESMRHISEGCPGVLCLNLSNTTITNRTMRLPRHFHNLQN  
LSLAYCRRFTDKGLQYLNLGNGCHKLIYLDLSGCTQISVQGFYRIANSCTGIMHLTINDM  
PTLTDNCVKALVEKCSRITSLVFTGAPHISDCTFRALSACKLRKIRFEGNKRVTDASFKE  
IDKNYPNLSHIYMADCKGITDSSLRSLSPKQLTVNLANCVRIGDMGLKQFLDGPASMR  
IRELNSNCVRLSDASVMKLSERCPNLNYSLRNCEHLTAQGIGYIVNIFSLVSIIDLSGT  
DISNEGLNVLSRHKKLKELSVSECYRITDDGIQAFCKSSLILEHLDVSYCSQLSDMIKA  
LAIYCINLTSLSIAGCPKITDSAMELSAKCHYLHILDISGCVLLTDQILEDLQIGCKQL  
RILKMQYCTNISKAAQRMSSKVQQEYNTNDPPRWFGYDREGNPVTELDNITSSKGALE  
LTVKKSTYSSDQAA

>sp|Q6PCT2|FXL19\_HUMAN F-box/LRR-repeat protein 19 OS=Homo sapiens GN=FBXL19 PE=1 SV=3

MGMKVPGKGESGPSALLTPMSSSSRGPAGARRRRTRCRRRCACVRTECGDCHFCRDMK  
KFGGPGRMKQSCLLRQCTAPVLPHTAVCLLCGEAGKEDTVEGEEEFGLSLMECTICNEI  
VHPGCLKMGAEGVINAEIPNCWECPRCTQEGRTSKDSGEGPGRRRRADNGEEGASLGSGW

KLTEEPPLPPPPRRKGPLPAGPPPEDVPGPPKEREAGNEPPTPRKKVKGGRERHLKK  
VGGDACLLRGSDPGGPGLLPPRVLNPSQAFSSCHPGLPPENWEKPKPPLASAEGPAVPSP  
SPQREKLERFKRMCQLLERVPDTSSSSSSDSDSDSSGTSLSSEDEAPGEARNRRPARGS  
SGEKENRGRRRAVRPGSGGPLLWPLGPAPPPRPPQLERHVVRPPRSPEPDTLPLAAGS  
DHPLPRAAWLRVFQHLGPRELCICMRVCRTWSRWCYDKRLWPRMDLSRRKSLTPPMLSGV  
VRRQPRALDLSWTGVSKKQLMWLLNRLQGLQELVLSGCSWLSVSALGSAPLPALRLDLR  
WIEDVKDSQLRELLPPPDTPKGQTESRGRLQGVAELRLAGLELTDASLRLLLRHAPQLS  
ALDLSHCAHVGDPSVHLLTAPTSPRLRETLVHLNLAGCHRLTDHCLPLFRRCPRLRRDLR  
SCRQLSPEACARLAAAGPPGFRCPPEEKLLKDS

>sp|P51114|FXR1\_HUMAN Fragile X mental retardation syndrome-related protein 1 OS=Homo sapiens GN=FXR1 PE=1 SV=3

MAELTVEVRGSNGAFYKGFIKDVHEDSLTVVFENNWQPERQVPFNEVRLPPPPDIKKEIS  
EGDEVEVYSRANDQEPGWWLAKVRMMKGEFYVIEYAACDATYNEIVTFERLRPVNQNT  
VKKNTFFKCTVDVPEDLREACANENAHKDFKAVGACRIFYHPETTQLMILSASEATVKR  
VNILSDMHLRSIRTKLMLSRNEEATKHLECTKQLAAAFHEEFVREDLMGLAIGTHGSN  
IQQARKVPGVTAIELDEDTGTFRIYGESADAVKKARGFLEFVEDFIQVPRNLVGKVIKGN  
GKVIQEIVDKSGVVRVRIEGDNENKLPREDGMVPFVFGTKESIGNVQVLEHYHIAYLKE  
VEQLRMERLQIDEQLRQIGSRYSGRGRRRGPNYTSGYGTNSELNPNSETESERKDELS  
DWSLAGEDDRDSRHQRDSRRRPGGRGRSVSGGRGGRGPRGKSSISSVLKDPDSNPYSL  
DNTESDQTADTDASESHHSTNRRRRSRRRRTDEDAVLMDGMTESDTASVNENGLTVADY  
ISRAESQSRQRNLPRETLAKNKKEMAKDVIEEHGPSEKAINGPTSASGDDISKLRTPGE  
EKINTLKEENTQEAAVLNGVS

>sp|P58550|FXYD8\_HUMAN Putative FXYD domain-containing ion transport regulator 8 OS=Homo sapiens GN=FXYD6P3 PE=5 SV=2

MEVVLIFVYSLLPVVLASAAKEKEIDPFHYNYQTLRIGGLVFDVVLFLVPSCHLLSHRC  
KCSFNQKPKQDPGDKEAQVENFITANAKEPQKAKN

>sp|O15117|FYB\_HUMAN FYN-binding protein OS=Homo sapiens GN=FYB PE=1 SV=2

MAKYNTGGNPTEDEVSNRPFRVTGPNSSSGIQARKNLFNNQGNASPPAGPSNVPKFGSP  
KPPVAVKPSSEKPDKEPKPPFLKPTGAGQRFGTASLTTRDPEAKVGFLKPVGPKPINL  
PKEDSKPTFPWPPGNKPSLHNVQDHLKPLGPKSGPTPPTSENEQKQAFPKLTGVKGKF  
MSASQDLEPKPLFPKPAFGQKPLSTENSHEDESPMKNVSSSKGSPAPLGVRSKSGPLKP  
AREDSKNKHAGEISSLPFGVVLKPAASRGGPGLSKNGEEKEDRKIDAAKNTFQSKIN  
QEELASGTPPARFPKAPSKLTVGGPWGQSQEKEKGDKNSATPKQKPLPPLFTLGPPPPKP  
NRPPNVDLTKFHKTSNGNSTSKGQTSYSTSLPPPPPSHPASQPPLPASHPSQPPVPSLP  
PRNIKPPFDLKSPVNEDNQDGVTHSDGAGNLDEEQDSEGETYEDIEASKEREKKREKEEK  
KRLELEKKEQKEKEKKEQEIKKKFKLTGPIQVIHLAKACCDVKGGKNELSFKQGEQIEII  
RITDNPEGKWLGRARGSYGIKTTAVEIDYDSLKLKDSLGAAPSRPIEDDQEVYDDVAE  
QDDISSHSQSGGGIFPPPPDDDIYDGIIEEDADDGFPAPPKQLDMGDEVYDDVDTSDFP  
VSSAEMSQGTNVGKAKTEEKDLKKLKKQEKEEKDFRKKFKYDGEIRVLYSTKVTTITSK  
KWGTRDLQVKPGESLEVIQTDDTKVLCRNEEGKYGVLRSYLADNDGEIYDDIADGCIY  
DND

>sp|Q9H3Q3|G3ST2\_HUMAN Galactose-3-O-sulfotransferase 2 OS=Homo sapiens GN=GAL3ST2 PE=1 SV=2

MMSMLGGLQRYFRVILLLLALTLLLLAGFLHSDLELDTPLFGGQAEGPPVTNIMFLKTH

KTASSTVLNILYRFAETHNLSVALPAGSRVHLGYPWLFLARYVEGVGSQQRFNIMCNHLR  
FNLPQVQKVMNDTFYFSILRNPVFQLESSFIYYKTYAPAFRGAPSLDAFLASPRTFYND  
SRHLRNVYAKNNMWFDFGFDPAQCEEGYVRARIAEVERRRFRLVLIAEHLDESLVLLRRR  
LRWALDDVAFRLNSRSARSVARLSPETREARSWCALDWRLYEHFNRTLWAQLRAELGP  
RRLRGEVERLRARRRELASLCLQDGGALKNHTQIRDPRLRPYQSGKADILGYNLRPGLDN  
QTLGVCQRLVMPELQYMARLYALQFPEKPLKNIPFLGA

>sp|Q8TAE8|G45IP\_HUMAN Growth arrest and DNA damage-inducible proteins-interacting  
protein 1 OS=Homo sapiens GN=GADD45GIP1 PE=1 SV=1

MAASVRQARSLLGVAATLAPGSRGYRARPPRRRPGRWPDPEDLLTPRWQLGPRYAAKQ  
FARYGAASGVVPGSLWPSPEQLRELEAEEREWYPSLATMQESLRVKQLAEQKRREREQH  
IAECMAKMPQMIVNWQQQQRENWEKAQADKERRARLQAEAQELLGYQVDPRSARFQELLQ  
DLEKKERKRLKEEKQKRKKEARAAALAAVAQDPAASGAPSS

>sp|Q9NQR9|G6PC2\_HUMAN Glucose-6-phosphatase 2 OS=Homo sapiens GN=G6PC2 PE=1 SV=1

MDFLHRNGVLI IQHLQKDYRAYYTFLNFMNSVGDPRNIFFIYFPLCFQFNQTVGTKMIWV  
AVIGDWLNLIFKWILFGHRPYWWVQETQIYPNHSSPCLEQFPTTCETGPGSPSGHAMGAS  
CVWYVMVTAALSHTVCGMDKFSITLHRLTWSFLWSVFWLIQISVCISRVFIATHFPHQVI  
LGVIGGMLVAEAFEHTPGIQTASLGTYLKTNLFLFLFAVGFYLLLRVLNIDLLWSVPIAK  
KWCANPDWIHIDTTPFAGLVRNLGVLFGLGFAINSEMFLSCRGGNNYTLSEFRLLCALTS  
LTILQLYHFLQIPTHEEHLFYVLSFCKSASIPLTVVAFIPYSVHMLMKQSGKKSQ

>sp|P35575|G6PC\_HUMAN Glucose-6-phosphatase OS=Homo sapiens GN=G6PC PE=1 SV=2

MEEGMNLVHDFGIQSTHYLQVNYQDSQDWFILVSVIADLRNAFYVLFPIWFHLQEAVGIK  
LLWVAVIGDWLNLVFKWILFGQRPYWWVLDTDYYSNTSVPLIKQFPVTCETGPGSPSGHA  
MGTAGVYVYVMVTSLSIFQGKIKPTYRFRCLNVILWLGFWAVQLNVCLSRIYLAHFPHQ  
VVAGVLSGIAVAETFSHIHSIYNASLKKYFLITFFLFSFAIGFYLLKGLGVDLLWTLEK  
AQRWCEQPEWVHIDTTPFASLLKNLGTFLGLALNSSMYRESCGKLSKWLPFRLSSIV  
ASVLLHVFDLSLKPPSQVELVFYVLSFCKSAVVPLASVSVIPYCLAQVLGQPHKKS

>sp|P06744|G6PI\_HUMAN Glucose-6-phosphate isomerase OS=Homo sapiens GN=GPI PE=1 SV=4

MAALTRDPQFQKLQWYREHRSELNLRRLFDANKDRFNHFSLTNTNHGHILVDYSKNLV  
TEDVMRMLVDLAKSRGVEAARERMFNGEKINYTEGRAVLHVALNRNSNTPILVDGKDVM  
EVNKLVDKMKSFQQRVRSQDWKGYTGKTITDVINIGIGSDLGPLMVTEALKPYSSGGPR  
VWYVSNIDGTHIAKTLAQLNPESLSFIIASKTFTTQETITNAETAKEWFLQAAKDPSAVA  
KHFFVALSTNTTKVKEFGIDPQNMFEFWDVWGGRYSLWSAIGLSIALHVGFDFEQLLSGA  
HWMQHFRTTPEKNAPVLLALLGIWYINCFGCETHAMLPYDQYLHRFAAYFQQGDMESN  
GKYITKSGTRVDHQTGPIVWGPEGTNGQHAFYQLIHQGTKMIPCDLIPVQTQHPIRKGL  
HHKILLANFLAQTEALMRGKSTEEARKELQAAGKSPEDLERLLPHKVFEGRNPTNSIVFT  
KLTPFMLGALVAMEYHKIFVQGI IWDINSFDQWGVELGKQLAKKIEPELDGSAQVTS  
HDA STNGLINFIKQREARVQ

>sp|P57057|G6PT2\_HUMAN Glucose-6-phosphate exchanger SLC37A1 OS=Homo sapiens GN=SLC37A1  
PE=2 SV=2

MARLPAGIRFIIISFRDQWYRAFIFILTFLLYASFHLSRKPI SIVKGELHKYCTAWDEAD  
VRFSSQNRKSGSAAPHQLPDNETDCGWAPFDKNYQQLGALDYSFLCAYAVGMYLSGII  
GERLPRIYYLTFGMLASGAFTALFGLGYFYNIHSFGFYVVTQVINGLVQTTGWPSVVTCL  
GNWFGKGRRLIMGVNSHTSVGNILGSLIAGYVWSTCWGLSFVVPGAIVAAMGIVCFLF  
LIEHPNDVRCSSTLVTHSKGYENGTNRLRLQKQILKSEKNKPLDPEMQCLLLSDGKGSIH

PNHVILPGDGGSGTAAISFTGALKIPGVIEFSLCLLFAKLVSYTFLFWLPLYITNVDHL  
DAKKAGELSTLFDVGGIFGGILAGVISDRLEKRASTCGLMLLLAAPTLYIFSTVSKMGLE  
ATIAMLLLSGALVSGPYTLITTAVSADLGTHKSLKGNHALSTVTAIIDGTGSVGAALGP  
LLAGLLSPSGWSNVFYMLMFADACALLFLIRLIHKELSCPGSATGDQVPFKEQ

>sp|095177|GAAS1\_HUMAN Uncharacterized protein GAS8-AS1 OS=Homo sapiens GN=GAS8-AS1 PE=2  
SV=1

MKLSSAAGQESPGHPHPSPPAWTLKKPSESVAQRAMCSARACPVACPVGCPAACPVGCPI  
ACPVSCPVACPVGCPVGSMPATPQGLSPQEWADRETGSSSHAGTTQCSIHSPSSSRHL  
SRTQT

>sp|Q8TAK5|GABP2\_HUMAN GA-binding protein subunit beta-2 OS=Homo sapiens GN=GABPB2 PE=1  
SV=1

MSLVDLGKRLLEARKGQDDEVRTL MANGAPFTD WLGT SPLHLAAQYGHYSTAEVLLRA  
GVSRDARTKVDRTPLHMAAADGHAHIVELLVRNGADVNAKMLKMTALHWATERHHRDVV  
ELLIKYGADVHAFSKFDKSAFDIALEKNNAEILVILQEAMQNQVNVNPERANPVTDPVSM  
AAPFIFTSGEVNLASLISSTNTKTTSGDPHASTVQFSNSTSVLATLAALAEASVPLSN  
SHRATANTEEIEGNSVDSSIQQVMGSGGQRVITIVTDGVPLGNIQTSIPTGGIGQPFIV  
TVQDGGQVLTVPAGKVAEETVKEEEEEKLPLTKKPRIGEKTNSVEESKEGNERELLQQQ  
LQEANRRAQEYRHQLLKKEQAEQYRLKLEAIARQQPNGVDFTMVEEVAEVDVAVVTEGE  
LEERETKVTGSAGTTEPHTRVSMATVSS

>sp|P34059|GALNS\_HUMAN N-acetylgalactosamine-6-sulfatase OS=Homo sapiens GN=GALNS PE=1  
SV=1

MAAVVAATRWWQLLLVLSAAGMGASGAPQPPNILLLLMDDMGWDLGVYGEPSRETPNLD  
RMAAEGLLFPNFYSANPLCSPSRAALLTGRLPIRNGFYTTNAHARNAYTPQEIVGGIPDS  
EQLLPELLKKAGYVSKIVGKWHLGHRPQFHPLKHGFDEWFGSPNCHFGPYDNKARNIPV  
YRDWEMVGRYEEFPINLKTGEANLTQIYLQEALDFIKRQARHHPFFLYWAVDATHAPVY  
ASKPFLGTSQRGRYGDVREIDDSIGKILELLQDLHVADNTFVFFTSNGAALISAPEQG  
GSNGPFLCGKQTTFEGGMREPALAWWPGHV TAGQVSHQLGSIMDLFTTSLAGLTPPSD  
RAIDGLNLLPTLLQGRLMDRPIFYRGTLMATLGQHKAHFWTWTNSWENFRQGIDFCP  
GQNVSGVTTHNLEDHTKLPLIFHLGRDPGERFPLSFASAEYQEALSRTSVVQQHQEALV  
PAQPQLNVCNWAVMNWAPPGCEKLGKCLTPPESIPKKCLWSH

>sp|Q9UBC7|GALP\_HUMAN Galanin-like peptide OS=Homo sapiens GN=GALP PE=2 SV=1

MAPPSVPLVLLLVLSSLAETPASAPAHRRGGWTLNSAGYLLGPVLHLPQMGDQDGKRE  
TALEILDWLKAIIDGLPYSHPPQPSKRNVMTFAKPEIGDLGMLSMKIPKEEDVLKS

>sp|Q8N292|GAPT\_HUMAN Protein GAPT OS=Homo sapiens GN=GAPT PE=1 SV=1

MSKSCGNLAAISVGISLLLLLVVCGIGCVWHWKHRVATRF TLPRFLQRRSSRRKVCTKT  
FLGPRIIGLRHEISVETQDHKSAVRGNTHDNYENVEAGPPKAKGKTDKELYENTGQSNF  
EEHIYGNETSSDYNNFQKPRPSEVPQDEDIYILPDSY

>sp|B1AJZ9|FHAD1\_HUMAN Forkhead-associated domain-containing protein 1 OS=Homo sapiens  
GN=FHAD1 PE=2 SV=2

MKAYLKSAGFFVLNKSTTIGRHENS DLVLQSPDIDNHHALIEYNEAECSFVLQDFNSRN  
GTFVNECHIQNVAVKLIPGDILRFGSAGLT YELVIENPPPV SFPWMRGPAWPWGPQPPRA  
TQQPNQAPPPSHIPFHQGVQPAPMQRSWSQAFPRPTVVL PASHRRPVSANKEMFSFVVD  
ARKPPVIKQVWTNAMKLSEKSAEGIPGAVPPAEIYVEEDLAQQDKDEIILLGKEVSRL  
SDYEIESKYKDVIIANLQNEVAELS QKVSETTTSRQNEKEISQKCQVLDEDIDAKQKEIQ

SLKSQISALQKGYSKVLQCITLSENRSEITSLKNEGENLKRDNAITSGMVSSLQKDILAKD  
EQVQQLKEEVSHLKSQNKDKDHQLEALGSRCVSLKEELKQEDAHRELREAQEKELKLCKT  
QIQDMEKEMKKLRAELRKSCTEQSVISRTLREKSKVEEKLQEDSRRKLLQLQEMGNRESV  
IKINLERAVGQLEHFRSQVIKATYGRAKPFDPKPVTDQQLIEKITQVTEDNINFQQKKWT  
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GEAERGEGARAGEAQSQNQATDREGGKALEEYITQERNRAKETLEEERKRMQELESLLA  
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KRVQDLENHLTQQKEISESNIAYEKRKAKEAMEKEKKKVQDLENRLTKQKEEELKEQK  
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QKMVKALQDEQESQRHGFEEEIMEYKEQIKQHAQTIVSLEEKLQKVTQHHKKIEGEIATL  
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SRHEEVIQRQKKALSELRARIKELEKARSPDHKDHQNESFLDLKNLRMENNQKILLDAK  
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>sp|Q9COD6|FHDC1\_HUMAN FH2 domain-containing protein 1 OS=Homo sapiens GN=FHDC1 PE=1 SV=2

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FLYGLIQVPNYSLRIEAMVLKKEFLPSCSSLYTDITVLRTAIKELMSCEELHSILHLVLQ  
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SVSPVHELPRVPSFARNTVASSSRMRTDLPPVAKAPGITRTVSQRQLRVKGPEDAAP  
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LRK

>sp|Q5TD97|FHL5\_HUMAN Four and a half LIM domains protein 5 OS=Homo sapiens GN=FHL5 PE=1  
SV=1

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NYWHETCFVCENC RQPIGTKPLISKESGNYCVPCEKEFAHYCNFCKKVITSGGITFC DQ  
LWHKECF L C S G C R K D L C E E Q F M S R D D Y P F C V D C Y N H L Y A N K C V A C S K P I S G L T G A K F I C F  
Q D S Q W H S E C F N C G K C S V S L V G K G F L T Q N K E I F C Q K C G S G M D T D I

>sp|Q4L180|FIL1L\_HUMAN Filamin A-interacting protein 1-like OS=Homo sapiens GN=FILIP1L  
PE=1 SV=2

M R S R G S D T E G S A Q K K F P R H T K G H S F Q G P K N M K H R Q Q D K D S P S E S D V I L P C P K A E K P H S G N  
G H Q A E D L S R D D L L F L L S I L E G E L Q A R D E V I G I L K A E K M D L A L L E A Q Y G F V T P K K V L E A L Q  
R D A F Q A K S T P W Q E D I Y E K P M N E L D K V V E K H K E S Y R R I L G Q L L V A E K S R R Q T I L E L E E E K R  
K H K E Y M E K S D E F I C L L E Q E C E R L K K L I D Q E I K S Q E E K E Q E K E K R V T T L K E E L T K L K S F A L  
M V V D E Q Q R L T A Q L T L Q R Q K I Q E L T T N A K E T H T K L A L A E A R V Q E E E Q K A T R L E K E L Q T Q T T  
K F H Q D Q D T I M A K L T N E D S Q N R Q L Q Q K L A A L S R Q I D E L E E T N R S L R K A E E E L Q D I K E I S K  
G E Y G N A G I M A E V E E L R K R V L D M E G K D E E L I K M E E Q C R D L N K R L E R E T L Q S K D F K L E V E K L  
S K R I M A L E K L E D A F N K S K Q E C Y S L K C N L E K E R M T T K Q L S Q E L S L K V R I K E L E A I E S R L E  
K T E F T L K E D L T K L K T L T V M F V D E R K T M S E K L K K T E D K L Q A A S S Q L Q V E Q N K V T T V T E K L I  
E E T K R A L K S K T D V E E K M Y S V T K E R D D L K N K L A E E E K G N D L L S R V N M L K N R L Q S L E A I E K  
D F L K N K L N Q D S G K S T T A L H Q E N N K I K E L S Q E V E R L K L K L K D M K A I E D D L M K T E D E Y E T L E  
R R Y A N E R D K A Q F L S K E L E H V K M E L A K Y K L A E K T E T S H E Q W L F K R L Q E E E A K S G H L S R E V D  
A L K E K I H E Y M A T E D L I C H L Q G D H S V L Q K K L N Q Q E N R N R D L G R E I E N L T K E L E R Y R H F S K S  
L R P S L N G R R I S D P Q V F S K E V Q T E A V D N E P P D Y K S L I P L E R A V I N G Q L Y E E S E N Q D E D P N D  
E G S V L S F K C S Q S T P C P V N R K L W I P W M K S K E G H L Q N G K M Q T K P N A N F V Q P G D L V L S H T P G Q  
P L H I K V T P D H V Q N T A T L E I T S P T T E S P H S Y T S T A V I P N C G T P K Q R I T I L Q N A S I T P V K S K  
T S T E D L M N L E Q G M S P I T M A T F A R A Q T P E S C G S L T P E R T M S P I Q V L A V T G S A S S P E Q G R S P  
E P T E I S A K H A I F R V S P D R Q S S W Q F Q R S N S N S S S V I T T E D N K I H I H L G S P Y M Q A V A S P V R P  
A S P S A P L Q D N R T Q G L I N G A L N K T T N K V T S S I T I T P T A T P L P R Q S Q I T V E P L L L P H

>sp|P20930|FILA\_HUMAN Filaggrin OS=Homo sapiens GN=FLG PE=1 SV=3

M S T L L E N I F A I I N L F K Q Y S K K D K N T D T L S K K E L K E L L E K E F R Q I L K N P D D P D M V D V F M D H  
L D I D H N K K I D F T E F L L M V F K L A Q A Y Y E S T R K E N L P I S G H K H R K H S H H D K H E D N K Q E E N K E  
N R K R P S S L E R N N R K G N K G R S K S P R E T G G K R H E S S E K K E R K G Y S P T H R E E E Y G K N H H N S  
S K K E K N K T E N T R L G D N R K R L S E R L E E K E D N E E G V Y D Y E N T G R M T Q K W I Q S G H I A T Y Y T I Q  
D E A Y D T T D S L L E E N K I Y E R S R S D G K S S S Q V N R S R H E N T S Q V P L Q E S R T R K R R G S R V S Q D  
R D S E G H S E D S E R H S G S A S R N H H G S A W E Q S R D G S R H P R S H D E D R A S H G H S A D S S R Q S G T R H  
A E T S S R G Q T A S S H E Q A R S S P G E R H G S G H Q Q S A D S S R H S A T G R G Q A S S A V S D R G H R G S S G S  
Q A S D S E G H S E N S D T Q S V S G H G A G L R Q Q S H Q E S T R G R S G E R S G R S G S S L Y Q V S T H E Q P D S  
A H G R T G T S T G G R Q G S H H E Q A R D S S R H S A S Q E G Q D T I R G H P G S S R G G R Q G S H H E Q S V N R S G  
H S G S H H S H T T S Q G R S D A S H G Q S G S R S A S R Q T R N E E Q S G D G T R H S G S R H H E A S S Q A D S S R H  
S Q V G Q G Q S S G P R T S R N Q G S S V S Q D S D S Q G H S E D S E R W S G S A S R N H H G S A Q E Q S R D G S R H P  
R S H H E D R A G H G H S A D S S R K S G T R H T Q N S S S G Q A A S S H E Q A R S S A G E R H G S R H Q L Q S A D S S  
R H S G T G H G Q A S S A V R D S G H R G S S G S Q A T D S E G H S E D S D T Q S V S G H G Q A G H H Q Q S H Q E S A R  
D R S G E R S R R S G S F L Y Q V S T H K Q S E S S H G W T G P S T G V R Q G S H H E Q A R D N S R H S A S Q D G Q D T  
I R G H P G S S R R G R Q G S H H E Q S V D R S G H S G S H H S H T T S Q G R S D A S R G Q S G S R S A S R T T R N E E  
Q S R D G S R H S G S R H H E A S S H A D I S R H S Q A G Q G Q S E G S R T S R R Q G S S V S Q D S D S E G H S E D S E  
R W S G S A S R N H R G S A Q E Q S R H G S R H P R S H H E D R A G H G H S A D S S R Q S G T P H A E T S S G G Q A A S  
S H E Q A R S S P G E R H G S R H Q Q S A D S S R H S G I P R R Q A S S A V R D S G H W G S S G S Q A S D S E G H S E E  
S D T Q S V S G H G Q D G P H Q Q S H Q E S A R D W S G G R S G R S G S F I Y Q V S T H E Q S E S A H G R T R T S T G R



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RTSRHQGSSVSQDSDSERHSDSERLGSASRNHHGSSREQSRDGRHPGFHQEDRASHG  
HSADSSRQSGTHHTESSHGQAVSSHEQARSSPGERHGRHQQSADSSRHSGIGHRQASS  
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FLYQVSTHEQSESSHGWTGPSTRGRQGSRHEQAQDSSRHSASQYGQDTIRGHPGSSRG  
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RHHEASTHADISRHSQAVQGGSEGSRRRQGSSVSQDSDSEGHSEDSERWGSASRNHR  
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GSQASDSEGHSESDTQSVSAHGQAGPHQQSHQESTRGRSAGRSGRSGFLYQVSTHEQS  
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SGHSGSHSHTTSQGRSDASHGQSGSRASRETRNEEQSGDSRHSRHEASTQADSS  
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HPGSSHRDTASHVQSSPVQSDSSTAKEHGHFSSLSQDSAYHSGIQSRGSPHSSSSYHYQS  
EGTERQKQGSGLVWRHGSYGADYDYGESGFRHSQHGSVSYNSNPVVKERSDICKASAF  
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>sp|Q96SL8|FIZ1\_HUMAN Flt3-interacting zinc finger protein 1 OS=Homo sapiens GN=FIZ1 PE=1 SV=2

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SLGRHLKRQHRGVLPSPLQPGPLPALSAPCSVCCNVGPCSVCGSGAGGGEGPEGAGAG  
LGSWGLAEAAAAAASLPPFACGACARRFDHGRELAAHWAHTDVKPFKPCRERDFNAP  
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GHCGALYAALAEHRRVSHGEGGEEAATAAREREPASGEPPSGSGRGKKIFGCSECE  
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TSLNLSRHLKLRGMD

>sp|P68106|FKBP1B\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP1B OS=Homo sapiens GN=FKBP1B PE=1 SV=2

MGVEIETISPGDGRTPFKKGQTCVVHYTGMLQNGKKFDSSDRNKPFRIGKQEVKGF  
EEGAAQMSLGQRAKLTCTPDVAYGATGHPGVIPP NATLIFDV ELLNLE

>sp|075344|FKBP6\_HUMAN Inactive peptidyl-prolyl cis-trans isomerase FKBP6 OS=Homo sapiens GN=FKBP6 PE=1 SV=1

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LGCPLIPPNTTVLFEIELDLDAESDKFCALSAEQDQFPLQKVLKVAATEREFGNY  
LFRQNRFYDAKVRYKRALLLLRRRSAPPEEQHLVEAAKLPVLLNLSFTYKLDRPTIALC  
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RDYVDKEKEMWHRMFAPCGDGSTAGES

>sp|Q9Y5Y0|FLVC1\_HUMAN Feline leukemia virus subgroup C receptor-related protein 1 OS=Homo sapiens GN=FLVCR1 PE=1 SV=1

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SGVLGGPQTPLAPEEETQARLLPAGAGAETPGAESSPLPLTALSPRRFVLLIFSLYSLV  
NAFQWIQYSIISNVFEGFYGVTLHIDWLSMVYMLAYVPLIFPATWLLDTRGLRLTALLG  
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AVLGNQLGTAVGFLPPVLVPNTQNDTNLLACNISTMFYGTSAVATLLFILTAIAFKEKP  
RYPPSQAQAALQDSPPEEYSYKKSIRNLFKNIPFVLLITYGIMTGAFYSVSTLLNQMIL  
TYEGEEVNAGRIGLTLVVAGMVGSI LGLWLDYTKYKQTTLIVYILSFIGMVIFTFTL  
DLRYIIIVFVTGGVLGFFMTGYLPLGFEFAVEITYPESEGTSSGLLNASAQIFGILFTLA  
QGKLTSDYGPKAGNIFLCVWMFIGIILTALIKSDLRRHNINIGITNVDVKAIPADSPTDQ  
EPKTVMLSKQSESAI

>sp|B3EWG5|FM25C\_HUMAN Protein FAM25C OS=Homo sapiens GN=FAM25C PE=3 SV=1

MLGGLGKLAAEGLAHRTEKATEGAITHAVEEVKEVVGHAKETGEKAI AEAIKKAQESGDK  
KMKEITETVTNTVTNAITHAAESLDKLGQ

>sp|POC7T7|FMAS1\_HUMAN Putative uncharacterized protein FRMD6-AS1 OS=Homo sapiens  
GN=FRMD6-AS1 PE=5 SV=1

MLGRSGRRSQKQKHEVDEYFTLTRVDRSCPYLTVPGPPGAESGAPVRLGLRQRAVSSS  
RNPNSAGRTPNSYLTQAPVWRRSAPAQPPAPQTRHFPGRGADPALGSLPAAGLSGLCART  
TGGTAPPGARDSGASPGAQPQRHRPGCRGPPGSPVIRGPPRCREPGTAHGAQTPPPTRP  
NWPRRQPSRGSCALSSRQYGERPPAPPWTQPSVPRRGAATWGQEKAEYATPLGTQEARRA  
SGGRGGVDHGDQGLSPCCGGGARGRRRLPTFWPSGLLRRLDSLGLALPPEPSRAGRGRRL  
FGLSVLLKRNAGGEATPREGGPRRRWLRESCSPLPARHSRRRASWVSRWMEGAPPRMPS  
LPL

>sp|095466|FMNL1\_HUMAN Formin-like protein 1 OS=Homo sapiens GN=FMNL1 PE=1 SV=3

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NEKKWELICDQERFQVKNPPAAYIQKLKSYVDTGGSRKVAADWMSNLGFKRRVQESTQV  
LRELETSRLTNHIGWVQEFLEENRGLDVLLEYLAFAQCSVTYDMESTDNGASNSEKNKP  
LEQSVEDLSKGPPSSVPKSRHLTIKLTPAHSRKALRNSRIVSQKDDVHVCIMCLRAIMNY  
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GEQHRFEKLMFYFRNEDSNIDFMVACMQFINIVHVENMNFVFLQYEFTHLGLDLYLE  
RLRLTESDKLQVQIQAYLDNIFDVGALLEDTETKNAVLEHMEELQEQVALLTERLRDAEN  
ESMAKIAELEKQLSQARKELETLRERFSESTAMGPSRRPPEPEKAPPAAPTRPSALELKV  
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VPPPPPPPPPPGGPPDALGRRDSELGPGVKAKKPIQTKFRMPLLNWALKPSQITGTVF  
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TLRGNLGAERICQAI EAYDLQALGLDFLELLMRFLPTEYERSLITRFEREQRPMEELSE  
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LHFLDKAGSVSLDSVLADVRSLQRGLELTQREFVRQDDCMVLKEFLRANSPTMDKLLADS  
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PGKGEPAPKSPPKARRQMDLISELKRRQKEPLIYESDRDGAIEDIITVIKTVPTAR  
TGKRTSRLCEASLGEEMPL

>sp|Q96PY5|FMNL2\_HUMAN Formin-like protein 2 OS=Homo sapiens GN=FMNL2 PE=1 SV=3

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WVREFLEENKGLDVLVEYLSFAQYAVTFDFESVESTVESSVDKSKPWSRSIEDLHRGSN  
LPSPVGNVSRSRGRHSALRYNTLPSRRTLKNSRLVSKDDVHVCIMCLRAIMNYQYGFNM  
VMSPHAVNEIALSLNNKNPRTKALVLELLAAVCLVRGGHEIILSAFDNFKEVCGEKQRF  
EKLMEHFRNEDNNIDFMVASMQFINIVHSVEDMNFRVHLQYEFTHLGLDEYLDKDKHTE  
SDKLQVQIQAYLDNIFDVGALLEDAETKNAALERVEELENISHLSEKLQDTENEAMSKI  
VELEKQLMQRNKELDVVREIYKDANTQVHTLRKMVKEKEEAIQRQSTLEKKIHELEKQGT  
IKIQKKGDGDIILPVVASGTLMSGSEVVAGNSVGPTMGAASSGGLPPPPPPPLPSSDTP  
ETVQNGPVTTPMPPPPPPPPPPPPPPPPPPLPGPAAETVPAPPLAPPLPSAPPLPGT  
SSPTVVFNSGLAAVKIKKPIKTKFRMPVFNWVALKPNQINGTVFNEIDDERILEDLVNDE  
FEEIFKTKAQGAIDLSSSKQKIPQKGSNKVTLEANRAKNLAITLRKAGKTADEICKAI  
HVFDLKTLPVDFVECLMRFLPTENEVKVLRLYERERKPLENLSDEDRFMMQFSKIERLMQ  
KMTIMAFIGNFAESIQMLTPQLHAIIAASVSIKSSQKLKKILEIILALGNYMNSSKRGAV

YGFKLQSLDLLLDTKSTDRKQTLLHYISNVVKEKYHQVSLFYNELHYVEKAAAVSLENVL  
LDVKELQRGMDLTKREYTMHDHNTLLKEFILNNEGKLLKQDDAKIAQDAFDDVVKYFGE  
NPKTTPPSVFFPVFVRVFKAYKQAEENELRKKQEALMEKLLEQEALMEQQDPKSPSHK  
SKRQQQELIAELRRRQVKDNRHVYEGKDGAIEDIITVLKTPFTARTAKGRSRFFCEPVL  
TEEYHY

>sp|Q99518|FMO2\_HUMAN Dimethylaniline monooxygenase [N-oxide-forming] 2 OS=Homo sapiens  
GN=FMO2 PE=1 SV=4

MAKKVAVIGAGVSGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQSVVT  
NTSKEMSCFSDFPMPEDFPNFLHNSKLLLEYFRIFAKKFDLLKYIQFQTTVLSVRKCPDFS  
SSGQWKVVTSNGKEQSAVFDAMVCSGHHILPHIPLKSFPGMRFKGQYFHSRQYKHPD  
GFEGKRILVIGMGNSGSDIAVELSKNAAQVFISTRHGTWMSRISEDGYPWDSVFHTRFR  
SMLRNVLPRTAVKWMIEQQMNRWFNHENYGLEPQNKYIMKEPVLNDDVPSRLLCGAIKVK  
STVKELTETSAIFEDGTVEENIDVIIIFATGYSFSFPFLEDVSVKVENNMVSLYKYIFPAH  
LDKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLPSERTMMMDIIKRNEKRIDLF  
GESQSQTLLQTNVVDYLDLEALEIGAKPDFCSLLFKDPKLAVRLYFGPCNSY

>sp|E5RQL4|FONG\_HUMAN Formiminotransferase N-terminal subdomain-containing protein  
OS=Homo sapiens GN=FTCDNL1 PE=2 SV=1

MSSSRVGLRLAACLLNVSEAGRKYIVENIAKAALLDKNGKKHPQVSVLNIFSDQDYKRSV  
ITIATSVDKLGLAEDLVLHVPGCVSFLFGEADLPEKRSLVQRRKQLGWFTRRDFSALQPD  
LGAAPSQRCGLTGSEHGFCFALFFFFF

>sp|P53539|FOSB\_HUMAN Protein fosB OS=Homo sapiens GN=FOSB PE=2 SV=1

MFQAFPGDYDSGSRSSSPAESQYLSSVDSFGSPPTAAASQECAGLGEMPGSFVPTVTA  
ITTSQDLQWLQPTLISSMAQSQGQPLASQPPVVDPYDMPGTSYSTPGMSGYSSGGASGS  
GGPSTSGTSGPGPARPARARPRRPREETLTPEEEERRRVRRERNKLAAKCRNRRREL  
DRLQAETDQLEEEKAELSEIAELQKEKERLEFVLVAHKPGCKIPYEEGPGGPLAEVRD  
LPGSAPAKEDGFSWLLPPPPPPPLPFQTSQDAPPNLASLFTHSEVQVLGDPFPVNPVS  
TSSFVLTCPEVSAFAGAQRSGSDQPSDPLNSPSLLAL

>sp|P15407|FOSL1\_HUMAN Fos-related antigen 1 OS=Homo sapiens GN=FOSL1 PE=1 SV=1

MFRDFGEPGPSSNGGGYGGPAQPPAAAQAAQKFHLVPSINTMSGSQELQWMVQPHFLG  
PSSYPRPLTYPQYSPQPRPGVIRALGPPPGVRRRPCEQISPEEEERRRVRRERNKLAAA  
KCRNRRKELTDFLQAETDKLEDEKSLQREIEELQKQKERLELVLEAHRPICKIPEGAKE  
GDTGSTSGTSSPPAPCRPVPCISLSPGPVLEPEALHTPTLMTTPSLTPFTPSLVFTYPST  
PEPCASAHRKSSSSSGDPSSDPLGSPTLLAL

>sp|Q99958|FOXO2\_HUMAN Forkhead box protein C2 OS=Homo sapiens GN=FOXO2 PE=1 SV=1

MQARYSVSDPNALGVVLYLSEQNYRAAGSYGGMASPMGVSYGHPEQYSAGMGRSYAPYH  
HHQPAAPKDLVKPPYSYIALITMAIQNAPEKKITLNGIYQFIMDRFPFYRENKQGWQNSI  
RHNLSLNECFVKVPRDDKKPGKGSYWTLDPDSDYNMFENGSLRRRRRFFKKKDVSKKEER  
AHLKEPPPAASKGAPATPHLADAPKEAEKKVVIKSEAASPALPVITKVETLSPESALQGS  
PRSAASTPAGSPDGLPEHHAAAPNGLPGFSVENIMTLRTSPPGGELSPGAGRAGLVVPP  
LALPYAAAPPAAYGQPCAQGLEAGAAGGYQCSMRAMSLYTGAERPAHMCVPPALDEALSD  
HPSGPTSPLSALNLAAGQEGALAATGHHHQHHGHHHPQAPPPPPAPQPQPTPQPGAAAAQ  
AASWYLNHSGDLNHLPGHTFAAQQQTFPNVREMFNSHRLGIENSTLGEQVSGNASCQLP  
YRSTPPLYRHAAPYSYDCTKY

>sp|Q9H334|FOXO1\_HUMAN Forkhead box protein P1 OS=Homo sapiens GN=FOXO1 PE=1 SV=1

MMQESGTETKSNQSAIQNGSGGSNHLLECGGLREGRSNGETPAVDIGAADLAHAQQQQQQ  
ALQVARQLLLQQQQQQQVSGLKSPKRNDKQPALQVPVSVAMMTPQVITPQQMQQILQQQV  
LSPQQLQVLLQQQQQALMLQQQQQLQEFYKKQQEQLQLQLLQQQHAGKQPKEQQQVATQQLA  
FQQQLLQMQLQQQHLLSLQRQGLLTIQPGQPALPLQPLAQGMIPTELQQLWKEVTSHT  
AEETTGNHSSDLTTTCVSSAPSKTSLIMNPASTNGQLSVHTPKRESLSHEEHPHSH  
PLYGHGVCKWPGCEAVCEDFQSFLLKHLNNEHALDDRSTAQCRVQMQVVQQLQLAKDKE  
RLQAMMTHLHVKSTEPKAAPQPLNLVSSVTLSSKASEASPQLPHTPTTPTAPLTPVTQG  
PSVITTTSMHTVGPIRRRYSKYNPVSSADIAQNQEFYKNAEVRPPFTYASLIRQAILE  
SPEKQLTLNEIYNWFTRMFAYFRRNAATWKNVVRHNLHLKCFVRVENVKGAVWTVDEVE  
FQKRRPQKISGNPSLIKMQSSSHAYCTPLNAALQASMAENSIPLYTTASMGNTLGNLAS  
AIREELNGAMEHTNSNESDSSPGRSPMQAVHPVHVKEEPLDPEEAEGPLSLVTTANHSPD  
FDHDRDYEDPVEDME

>sp|Q8IVH2|FOXP4\_HUMAN Forkhead box protein P4 OS=Homo sapiens GN=FOXP4 PE=1 SV=1

MMVESASETIRSAPSGQNGVGSLSGQADGSSGGATGTTASGTGREVTGADSNNGEMSPA  
LLHFQQQQALQVARQFLQQASGLSSPGNNDKQASASAVQVPVSVAMMSPQMLTPQQMQQ  
ILSPPQLQALLQQQQALMLQQLQEYYKKQQEQLHLQLLTQQQAGKQPKEALGNKQLAFQ  
QQLLQMQLQQQHLLNLQRQGLVSLQPNQASGPLQTLQAAVCPDLPQLWKGEAGPGQP  
AEDSVKQEGDLTGTAATATSFAPPKVSPPLSHHTLPNGQPTVLTSSRDSSSHEETPGS  
HPLYGHGECKWPGCETLCELDGQFIKHLNTEHALDDRSTAQCRVQMQVVQQLQLAKES  
ERLQAMMAHLMRPSEPFPKFSQPLNPVPGSSSFQVTVSAADSPDGLVHPPTSAAAPVT  
PLRPPGLGSASLHGGGPARRRSSDKFCSPISSELAQNHEFYKNADVRPPFTYASLIRQAI  
LETDPDRQLTLNEIYNWFTRMFAYFRNTATWKNVVRHNLHLKCFVRVENVKGAVWTVDE  
REYQKRRPPKMTGSPTLVKNMISGLSYGALNASYQAALAESSFLLNSPGMLNPGSASSL  
LPLSHDDVGAPVEPLPSNGSSSPRLSPPQYSHQVQVKEEPAEAEEDRQPGPPLGAPNPS  
ASGPPEDRDLEELPGEELS

>sp|O14772|FPGT\_HUMAN Fucose-1-phosphate guanylyltransferase OS=Homo sapiens GN=FPGT PE=1 SV=2

MAAADPPEVSLREATQRKLRRFSELRGKLVARGEFWDIVAITAADEKQELAYNQQLSEK  
LKRKELPLGVQYHVFDPAKIGNGSTLCALQCLEKLYGDKWNSFTILLIHSGGYSQR  
LPNASALGKIFTALPLGNPIYQMLELKLAMYIDFPLNMNPGILVTCADDIELYSIGEFEF  
IRFDKPGFTALAHPSSTLTGTHGVFLDPFDDLKHRDLEYRSCHRFLHKPSIEKMYQFN  
AVCRPGNFCQQDFAGGDIADLKLDSDYVYTDLSFYMDHKSAMLLAFYEKIGTLSCEIDA  
YGDFLQALGPGATVEYTRNTSNVIKEESELVEMRQRIFHLLKGTSLNVVVLNNSKFYHIG  
TTEEYLFYFTSDNSLSELGLQSITFSIFPDIPECSGKTSCIISILDSRCSVAPGSVVE  
YSRLGPDVSVGENCISGSYILTKAALPAHSFVCSLSLKMNRCLKYATMAFGVQDNLKKS  
VKTLSDIKLLQFFGVCFSLCLDVWNLKVTEELFSGNKTCLSLWTARIFPVCSSLSDSVIT  
SLKMLNAVKNKSAFSLNSYKLLSIEEMLIYKDVEDMITYREQIFLEISLKSSLM

>sp|A9Z1Z3|FR1L4\_HUMAN Fer-1-like protein 4 OS=Homo sapiens GN=FER1L4 PE=2 SV=1

MFSPLKSARALAHGDPFQVSRQDFQVGVTVLEAQKLGVNINPYAVQVGGQRRVTAT  
QRGTSCPFYNEYFLFEHDTLRLLQDLLEITAFHSQTLPFMATRIGTFRMDLGIILDQP  
DGQFYQRWVPLHDPDRTRAGTKGFIKVTLSVRARGDLPPPMLPPAPGHCSIDIEKNLLPR  
GVPAERPWARLRVRLYRAEGLPALRLGLLGSLVRALHDQVRLVEPYVRVSFLGQGETSV  
SAEAAAPWNEQLSFVELFPPLTRSLRLQLRDDAPLVDAALATHVPDLRRISHPGRAAGF  
NPTFGPAWVPLYGSPPGAGLRDSLQGLNEGVGQGIWFRGRLLLAVSMQVLEGRAEPEPPQ

AQQGSTLSRLTRKKKKKARRDQTPKAVPQHLDASPGAEGPEIPRAMEVEVEELLPLPENV  
LAPCEDFLLFGVLFEATMIDPTVASQPISEFISIGRAGRLEEQLGRGSRAGEGTEGAAVE  
AQPLLGARPEEEKEEEELGTHAQRPMDGSGPYFCLPLCHCKPCMHWSCWEDHTWRLQ  
SSNCVRKVAERLDQGLQEVEERLQRKPGPGACAQLKQALEVLVAGSRQFCHGAERTMTRP  
NALDRCRGKLLVHSLNLLAKQGLRLLRGLRRRNQKKVALAKKLLAKLRFLAEEPQPPLP  
DVLVWMLSGQRRVAWARIPAQDVLFSVVEEERGRDCGKIQSLMLTAPGAAPGEVCAKLEL  
FLRLGLGKQAKACTSELPPDLLPEPSAGLPSSLHRDDFSYFQLRAHLYQARGVLAADDSG  
LSDPFARVLISTQCQTTRVLEQTLSPWDELLVFEQLIVDGRREHLQEEPPLVIINVFDH  
NKGPPVFLGRALAAPRVKLMEDPYQRPELQFFPLRKGPWAAGELIAAFQLIELDYSGRL  
EPSVPSEVEPQDLAPLVEPHSGRLSLPPNVCVLEFRVEVLFWGLRGLGRVHLLVEQP  
QVVLEVAGQGVESEVLASYRESPNFTELVRHLTVDLPEQPYLQPPLSILVIERRAFGHTV  
LVGSHIVPHMLRFTFRGHEDPPEEEGEMEETGDMMPKGPQGQKSLDPFLAEAGISRQLLK  
PPLKKLPLGGLLNQGPGLLEEDIPDPEELDWGSKYYASLQELQGQHNFEDEMDDPGDSGD  
VNLISMVGEIQDQGEAEVKGTVSPKAVATLKIYNRSLKEEFNHFEDWLVNVPFYRGQGG  
QDGGGEEEGSGHLVGKFKGSFLIYPESEAVLFSEPQISRGIPQNRPIKLLVRVYVVKATN  
LAPADPNGKADPYVVVSAGRERQDTKERYIPKQLNPIFGEILELSISLPAETELTVAVFD  
HDLVGSDDLIGETHIDLENRFYSHHRANGLASQYEVGDYNWRDAFWPSQILAGLCQRC  
GLPAPEYRAGAVKVGSKVFLTPPETLPPGSSSPTVASGDPEEAQALLVLRWQEMPGFGI  
QLVPEHVETRPLYHHPSPGLLQGSLSHMWIDIFPDVPAPPPVDIKPRQPISEYLRVVIWN  
TEDVVLDDENPLTGEMSSDIYKSVWVGLEHDKQETDVHFNSLTGEGNFNWRVFVFRFDYL  
PTEREVSVWRRSGPFALEEAQFRQPAVLVLQVWDYDRISANDFLGSLELQLPDMVRGARG  
PELCSVQLARNGAGPRCNLFRCRRLRGWWPVVKLEAEDVEREAQEAQAGKKKRKQRRRK  
GRPDELLEFTDMGGNVYILTGVKVEAEFELLTVEEAEKRPVGKGRKQPEPLEKPSRPKTSFN  
WVFNPLKTFVFFIWRRYWRTLVLVLLVLLTVFLLLVFYTIPGQISQVIFRPLHK

>sp|Q9BZ68|FR8P1\_HUMAN Putative FERM domain-containing protein FRMD8P1 OS=Homo sapiens  
GN=FRMD8P1 PE=5 SV=2

MDGTEGSGVGPPTERSHRSSVSSVGARAADVLVYLADDTVVPLAVENLPSLRAHELHCA  
VREVLKLPDIALDVFALWLVSPLLEVQLKPKNQPYKLGRQWPELLLRFTSAPDDDVAMDE  
PFLQFRNVFFPKGRELQIPDEEVLRLLYEEAKGNVLAARYLCDVEDCEALGALVCRVQL  
VTYQPDWPAACDLREKLDSFLPAHLCKRGQGLFAALRGRGARAGPGEQSLLNAYRKVQEV  
SSDGGCEAALGTHYRAYLLKCHKLPFYGCAFFHGEVDKPAQGFLHRGGRKSVSVAISLEG  
VHVVDREKHVLLGLCFQELSWDHTSPEEEEPILWLEFDRDSGVTPVNKLLKIYSKQAE  
MSSLIEYCI

>sp|Q96AE4|FUBP1\_HUMAN Far upstream element-binding protein 1 OS=Homo sapiens GN=FUBP1  
PE=1 SV=3

MADYSTVPPSSGSAGGGGGGGGGVNDAFKDALQRRARQIAAKIGGDAGTSLNSNDYGY  
GGQKRPLEDGDQPDAAKVAPQNDSTGTLPPMHQQSRSVMTEEYKVPDGMVGFIIIGRG  
EQISRIQQESGCKIQIAPDSGGLPERSCMLTGTPESVQSAKRLLDQIVEKGRPAPGFHHG  
DGPGNAVQEIMIPASKAGLVIGKGETIKQLQERAGVKMVMIQDGPQNTGADKPLRITGD  
PYKVQQAEMVLELIRDQGGFREVRNEYGSRIGGNEGIDVPIPRFAVGIVIGRNGEMIKK  
IQNDAGVRIQFKPDDGTTPERIAQITGPPDRCQHAAEIIITDLRSVQAGNPGGPGPGGRG  
RGRGQGNWNMGPPGLQEFNFIVPTGKTGLIIGKGETIKSISQQSGARIELQRNPPNA  
DPNMKLFITRGTPQQIDYARQLIEEKIGGPVNPLGPPVPHGPHGVPGHPPGPPGPGTP  
MGYPNPAPYNPGPPGAPHGPPAPYAPQGWGNAYPHWQQQAPPDPAKAGTDPNSAAWAAY

YAHYYQQAQPPPAAPAGAPTTTQTNGQGDQNPAPAGQVDYTKAWEEYKKMGQAVPAP  
TGAPPGGQPDYSAAWAEYYRQQAAYYAQTSPQGMPQHPPAPQGQ

>sp|Q9BTY2|FUCO2\_HUMAN Plasma alpha-L-fucosidase OS=Homo sapiens GN=FUCA2 PE=1 SV=2

MRPQELPRLAFPLLLLLLLLLPPPPCPAHSATRFDPWTESLDARQLPAWFDQAKFGIFIH  
WGVFSVPSFGSEFWWWYQKEKIPKYVEFMKDNYPSPFKYEDFGPLFTAKFFNANQWADI  
FQASGAKYIVLTSKHHEGFTLWGSEYSWNWNAIDEGPKRDIVKELEVAIRNRTDLRFGLY  
YSLFEWFHPLFLEDESSFHKRQFPVSKTLPELYELVNNYQPEVLWSDGDGAPDQYWS  
TGFLAWLYNESPVRGTVVTNDRWGAGSICKHGGFYTCSDRYNPGHLLPHKWENCMTIDKL  
SWGVRREAGISDYLTIEELVKQLVETVSCGGNLLMNIGPTLDGTISVVFEERLRQMGSWL  
KVNGEAIYETHTWRSQNDTVPDVWYTSKPKEKLVYAIFLKWPTSGQLFLGHPKAILGAT  
EVKLLGHGQPLNWISLEQNGIMVELPQLTIHQMPCKWGVALALTNI

>sp|Q8NOW3|FUK\_HUMAN L-fucose kinase OS=Homo sapiens GN=FUK PE=2 SV=2

MEQPKGVDWTVIILTCQYKDSVQVFQRELEVRQKREQIPAGTLLAVEDPEKRVGSGGAT  
LNALLVAAEHL SARAGFTVVTSDVLHSAWILILHMGRDFPFDDCGRAFTCLPVENPEAPV  
EALVCNLDCLLDIMTYRLGPGSPPGVWVCSTDMLLSVPANPGISWDSFRGARVIALPGSP  
AYAQNHGYYLTDPQGLVLDIYYQGTEAEIQRVCRPDGRVPLVSGVFFSVETAERLLATH  
VSPPLDACTYLGLDSGARPVQLSLFFDILHCAENVTRDFLVGRPELGGGDADVAGYL  
QSARQLWREL RDQPLTMAYVSSGSYSYMTSSASEFLLSLTLPAGPAQIVHSQVEEQQL  
LAAGSSVVSCLLEGPVQLGPGSVLQHCHLQGPIIHIGAGCLVTGLDTAHSKALHGRELRDL  
VLQGHHTRLHSGPGHAFTLVGRLD SWERQGAGTYLNPWSEFFKRTGVRAWDLWDPETLP  
AEYCLPSARLFPVLHPSRELGPQDLLWMLDHQEDGGEALRAWRASWRLSWEQLQPCLDRA  
ATLASRRDLFFRQALHKARHVLEARQDLSLRPLIWAAREGCPGPLLATLDQVAAGAGDP  
GVAARALACVADVLGCMAEGRGGLRSGPAANPEWMRPFSYLECGDLAAGVEALAQERDKW  
LSRPALLVRAARHYEGAGQILIRQAVMSAQHFVSTEQVELPGPGQWVVAECPARVDFSGG  
WSDTPPLAYELGGAVLGLAVRVDGRRPIGARARRIPEPELWAVGPRQDEMTVKIVCRCL  
ADLRDYCQPHAPGALLKAAFI CAGIVHVHSELQLSEQLLRTFGGGFELHTWSELPHGSGL  
GTSSILAGTALAALQRAAGRVVGTEALIHAVLHLEQVLTGGGWQDQVGGMLPGIKVGRS  
RAQLPLKVEVEEVTPEGFVQKLNHLLLVYTGKTRLARNLLQDVLRSWYARLPAVVQNA  
HSLVRQTEECAEGFRQGSPLLGQCLTSYWEQKKL MAPGCEPLTVRRMMDVLAPHVHGQS  
LAGAGGGGFLYLLTKEPQQKEALEAVLAKTEGLGNYSIHLVEVDTQGLSLKLLGTEASTC  
CPFP

>sp|P51993|FUT6\_HUMAN Alpha-(1,3)-fucosyltransferase 6 OS=Homo sapiens GN=FUT6 PE=1 SV=1

MDPLGPAKPQWSWRCLTTLLFQLLMAVCFFSYLRVSQDDPTVYPNGSRFPDSTGTPAHS  
IPLILLWTWPFNKPIALPRCSEMPGTADCNITADRKVYPQADAVIVHHREVMYNPSAQL  
PRSPRRQGQRWIWFSMESPSHCWQLKAMDGYFNLTMSYRSDSDIFTYPGWLEPWSGQPAH  
PPLNLSAKTELVAWAVSNWGPNSARVRYQSLQAHLKVDVYGRSHKPLPQGTMMETLSRY  
KFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGPSRSNYERFLPPDAFIHVDDFQSPKD  
LARYLQELDKDHARYLSYFRWRETLRPRSF SWALAFCKACWKLQEESRYQTRGIAAWFT

>sp|Q9Y231|FUT9\_HUMAN Alpha-(1,3)-fucosyltransferase 9 OS=Homo sapiens GN=FUT9 PE=2 SV=2

MTSTSKGILRPFLIVCIILGCFMACLLIYIKPTNSWIFSPMESASSVLKMNFFSTKTDY  
FNETTILVWWPFGQTFDLTSCQAMFNIQGCHLTDRSLYNKSHAVLIHHRDISWDLTNL  
PQARPPFQKIWMNLESPHTHPQKSGIEHLFNLTLTYRRDSDIQVPYGFLTSTNPFVF  
EVPSKEKLVCVVSNWNPEHARVKYYNELSKSIEIHTYGAQGEYVNDKNLIPTISTCKF  
YLSFENSIHKDYITEKLYNAFLAGSVPVVLGPSRENYENYIPADSFIVHEDYNPSSELA

YLKEVDKNNKLYLSYFNWRKDFTVNLPRFWESHACLACDHVKRHQEYKSVGNLEKWFWN

>sp|Q96CP2|FWCH2\_HUMAN FLYWCH family member 2 OS=Homo sapiens GN=FLYWCH2 PE=1 SV=1

MPLPEPSEQEGESVKASQEPSPKPGTEVIPAAPRKPRKFSKLVLLTASKDSTKVAGAKRK  
GVHCVMSLGVPGPATLAKALLQTHPEAQRAIEAAPQEPEQKRSRQDPGTDRTEDSGLAAG  
PPEAAGENFAPCSVAPGKSL

>sp|Q5VV16|FX4L5\_HUMAN Forkhead box protein D4-like 5 OS=Homo sapiens GN=FOXD4L5 PE=3  
SV=1

MNLPRAPERPRSTPQRSRLRSDGEDGKIDVLGEEDEDEVEDEEEEARQQFLEQSLQPGLQ  
VARWGGVALPREHIEGGGGSPDSEFGTKFRAPPRSAASEDARQPAKPPYSYIALITMA  
ILQNPCHKRLTSGICAFISGRFPYYRRKFPWQNSIRHNLSLNDCFVKIPREPGHPGKGN  
YWSLDPASQDMFDNGSFLRRRRKFRHQLTPGAHLPHPFPLPAAHAALHNPHPGPLLGA  
APPQVPVGAYPNTAPGRCPYALLHPHPLRYLLLSAPVYAGAPKKAEGADLATPAPFPCCS  
PHLVLSLGRRARVWRRHREADASLSALRVLCCKSGSERVQGLRRVCPRPRGATATCSSDHQ  
ACCIKPLPLCCKCPPPLLLGGFCSNSSSIRRTAPTAALPPRARCWAGTCRPRRRC

>sp|Q96IV6|FXDC2\_HUMAN Fatty acid hydroxylase domain-containing protein 2 OS=Homo sapiens  
GN=FAHDC2 PE=2 SV=1

MKGEAGHMLHNEKSKQEGHIWGSRRRTAFILGSGLLSFVAFWNSVTWHLQRFWGASGYFW  
QAQWERLLTTFEGKEWILFFIGAIQVPCLFFWSFNGLLLVDDTTGKPNFISRYRIQVGKN  
EPVDPVKLRQSIRTVLFNQCMISFPMVVFLYPFLKWWRDPCRRELPTFHWFLELAIFTL  
IEEVLFYYSHRLLHHPTFYKKIHKKHHEWTAFIGVISLYAHPIEHAVSNMLPVIVGPLVM  
GSHLSSITMWFLALIITTISHCGYHLPFLPSPEFHDYHHLKFNQCYGLVGLDHLHGTD  
TMFKQTKAYERHVLLLGFTPLSEIPDSPKRME

>sp|Q8N1E6|FXL14\_HUMAN F-box/LRR-repeat protein 14 OS=Homo sapiens GN=FBXL14 PE=1 SV=1

METHISCLFPELLAMIFGYLDVRDKGRAAQVCTAWRDAAYHKSVMRGVEAKHLRRANPS  
LFPSLQARGIRRVQILSLRRSLSYVIQGMANIESLNLGSCYNLTDNGLGHAFVQEIGSLR  
ALNLSLCKQITDSSLGRIAQYLKGLEVLELGGCSNITNTGLLLIAWGLQRLKSLNLRSCR  
HLSDVGIGHLAGMTRSAAEGCLGLEQLTLQDCQKLTDSLKHISRGLTGLRLLNLSFCGG  
ISDAGLLHLSHMSLRLSLNRSDNISDTGIMHLAMGSLRLSGLDVSFCDKVGDDSLAYI  
AQGLDGLKSLSLCSCHISDDGINRMVRQMHGLRTLNIQCVRITDKGLELIAEHLSQLTG  
IDLYGCTRITKRGLEKITQLPCLKVLNLGLWQMTDSEKEARGDFSPLFTVTRTGSSRR

>sp|Q9H469|FXL15\_HUMAN F-box/LRR-repeat protein 15 OS=Homo sapiens GN=FBXL15 PE=1 SV=2

MEPPMEPSGGEQEPGAVRFLDLPWEDVLLPHVLNRVPLRQLRLQRVSRAFRSLVQLHLA  
GLRRFDAAQVGPIPRAAARLLRDAEGLQELALAPCHEWLSDEDLPVLARNPQLRSVA  
LGGCGQLSRRALGALAEGCPRLQRLSLAHCDWVDGLALRGLADRCPALEELDTACRQLK  
DEAIVYLAQRRGAGRLSLSLAVNANVGDAAVQELARNCPHELHHLDTGCLRVGSDGVRTL  
AEYCPVLRSLRVRHCHHVAESSLSRLRKRGVDDIVEPPLHQALVLLQDMAGFAPFVNLQV

>sp|Q8N461|FXL16\_HUMAN F-box/LRR-repeat protein 16 OS=Homo sapiens GN=FBXL16 PE=2 SV=2

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AAPLSRAALAGGPCTPAGGPASALAPGHPAERPPLATDEKILNGLFWYFSACEKCVLAQV  
CKAWRRVLYQPKFWAGLTPVLHAKELYNVLPGEKEFVNLCGFAARGFEGFCLVGVSDLD  
ICEFIDNYALSKKGVKAMSLKRSTITDAGLEVMLEQMQGVVRLELSGCNDFTEAGLWSSL  
SARITSLSVSDCINVADDAIAAISQLLPNLAELSLQAYHVTDTALAYFTARQGHSTHTLR  
LLSCWEITNHGVNVVHSLPNLTALSLSGCSKVTDDGVELVAENLRKLRSLDLSWCPRIT  
DMALEYVACDLHRLEELVLDRCVRITDTGLSYLSTMSSLSLSLYLRWCCQVQDFGLKHLA



LGSLRLLSLAGCPLLTTTGLSGLVQLQELEELELTNCPGATPELFKYFSQHLPRCLVIE

>sp|Q96ME1|FXL18\_HUMAN F-box/LRR-repeat protein 18 OS=Homo sapiens GN=FBXL18 PE=1 SV=2

MASSGEDISNDDDDMPAAAGMADGVHLLGFSDEILLHILSHVPSTDLILNVRRTCRKLA  
ALCLDKSLIHTVLLQKDYQASEDKVRQLVKEIGREIQQLSMAGCYWLPGSTVEHVARCRL  
LVKVNLSGCHLTSLRLSKMLSALQHLRSLAIDVSPGFDASQLSSECKATLSRVRELKQTL  
FTPSYGVVPCCTSLEKLLLYFEILDRTREGAILSGQLMVGQSNVPHYQNLRVFYARLAPG  
YINQEVVRLYLAVLSDRTPQNLAFLISVPGSFAESGATKNLLDSMARNVVLDALQLPKS  
WLNSSLLQHMKFNNPFYFYSRCTLGGHLIQQVINGGKDLRSLASNLSGCVHCLSPD  
SLLRKAEDDIDSSILETLVASCNLRHLNLSAAHHHSSEGLGRHLCQLLARLRHLRSLSL  
PVCSVADSAPRADRAPAQAMHAVPRGFGKKVRVGVQSCPSPFSGQACPQPSSVFWSLLK  
NLPFLEHLELIGSNFSSAMPRNEPAIRNSLPPCSRAQSVGDSEVAAIGQLAFLRHLTLAQ  
LPSVLTGSGLVNIGLQCQQLRSLSLANLGMGKVVMYPALSDMLKHCKRLRDLRLEQPYF  
SANAQFFQALSQCPSLQRLCLVSRSGTLQPDVLAFAFMARCLQVVMCHLFTGESLATCKSL  
QQSLLRRWGEVTGRRPQLFTELREEPSARTSRATGRRQPCLPDGCVCCPCGRPLAVSGI  
ILVGVSPSLVVKTTCVYRVLFKNLDYASIFFLVCLFETESHVQAGVQWRDLSSLQPLL  
SGLQPQPPEQLENELEIGFSYCFVI

>sp|Q96IG2|FXL20\_HUMAN F-box/LRR-repeat protein 20 OS=Homo sapiens GN=FBXL20 PE=1 SV=2

MRRDVNGVTKSRFEMFSNSDEAVINKKLPKELLRIFSFLDVVTLCRCAQVSRAWNLAL  
DGSNWQRIDLDFQRDIEGRVVENISKRCGGFLRKLSLRGCLGVGDNALRTFAQNCRNIE  
VLNLNGCTKTTDATCTSLSKFCSKLRHLDLASCSTITNMSLKALSEGCPLEQLNISWCD  
QVTKDGIQALVRGCGGLKALFLKGCTQLEDEALKYIGAHCPELVTLNLQTCLQITDEGLI  
TICRGCHKLQSLCASGCSNITDAILNALGQNCPRRLILEVARCSQLTDVGFTTLARNCHE  
LEKMDLEECVQITDSTLIQLSIHCPRQLVLSLHCELITDDGIRHLGNGACAHDQLEVIE  
LDNCPLITDASLEHLKSCHSLERIELYDCQQITRAGIKRLRTHLPNIKVHAYFAPVTPPP  
SVGGSRQRFRCCCIIL

>sp|Q9UKT6|FXL21\_HUMAN F-box/LRR-repeat protein 21 OS=Homo sapiens GN=FBXL21 PE=1 SV=1

MKRNSLSVENKIVQLSGAAKQPKVGFYSSLNQTHHTVLLDWGSLPHHVVLQIFQYLPLL  
DRACASSVCRRWNEVFHISDLWRKFEFELNQSATSSFKSTHPDLIQQIIKKHFAHLQYVS  
FKVDSSAESAEAACDILSQLVNCISIQTGLISTAKPSFMNVSESHFVSALTVVFINSKSL  
SSIKIEDTPVDDPSLKILVANNSDTLRLPKMSSCPHVSSDGILCVADRCQGLRELALNYY  
ILTDELFLALSSETHVNLHLRIDVVSSENPQGQIKFHAVKKHSDALIKHSPRVNVVMHFF  
LYEEEFETFFKEETPVTHLYFGRSVSKVVLGRVGLNCPRLIELVVCANDLQPLDNELICI  
AEHCTNLALTGLSKCEVSCSAFIRFVRLCERRLTQLSMEEVLIPDEDYSLDEIHTEVSK  
YLGRVWFPDVMPLW

>sp|Q8IWF2|FXRD2\_HUMAN FAD-dependent oxidoreductase domain-containing protein 2 OS=Homo sapiens GN=FOXRED2 PE=1 SV=1

MGLSAAAPLWGPPGLLLAIALHPALSVPPRRDYCVLGAGPAGLQMayFLQrAGRdyAVFE  
RAPRPGSFFTRYPRHRKLISINKRYTGKANAefNLRHDWNSLLSHDPRLLFRHYSRAYFP  
DARDMVRYLGDFADTLGLRVQYNTTIAHVTLDKDRQAWNGHYFILTDQKGQVHQCSVLV  
ATGLSPVNQVDFPGSEYAEGYESVSVDPEDFVGQNVLILGRGNSAFETAENILGVTNFIH  
MLSRSRVRLSWATHYVGDRLAINNGLLDTYQLKSLDGLLESDLTDLAILKDSKGFHVTP  
KFFLEEANTNQSADSIPLQDDNDFAMRVPYDRVIRCLGWNFDIFSIFNKSLRLNSGNAF  
GKKYPLIRASYESKSGRGLFILGTASHSVDRKSAGGFihGFRyTVRAVHRLLEHRHHSV  
TWPATELPITQLTSSIVRRVNEASGLYQMFGLADVILLKENSTAFeyLEEFPIQMLAQL

ETLTGRKAKHGLFVINMEYGRNFGSPDKDVFFDDRSVGHTEDAWQSNFLHPVYYYYRYLP  
TEQEVRRFRPAHWPLRPRTAIHHIVEDFLTDWTAPIGHILPLRRFLENCLDLDLRSFYAES  
CFLFALTRQKLPPFCQQGYLRMQGLVSTESLWQHRVESRLLRDYAPTGRRLLEDSSQQLGD  
QEPLGSPLAPGPLAQSVDSNKEEL

>sp|Q96DB9|FXYD5\_HUMAN FXYD domain-containing ion transport regulator 5 OS=Homo sapiens  
GN=FXYD5 PE=1 SV=2

MSPSGRLCLLTIVGLILPTRGQTLKDDTSSSSADSTIMDIQVPTRAPDAVYTELQPTSPT  
PTWPADETPQPQTQTQQLLEGTDGPLVTDPEHSTKAAHPTDDTTLSERPSPSTDVQTD  
PQTLKPSGFHEDDPFFYDEHTLRKRGLLVA AVLFIITGIIILTSKGCRQLSRLCRNRCR

>sp|Q9H0Q3|FXYD6\_HUMAN FXYD domain-containing ion transport regulator 6 OS=Homo sapiens  
GN=FXYD6 PE=1 SV=1

MELVLVFLCSLLAPMVLASAAEKEKEMDPFHYDYQTLRIGGLVFAVVLFSVGILLILSRR  
CKCSFNQKPRAPGDDEEAQVENLITANATEPQKAEN

>sp|P27469|GOS2\_HUMAN GO/G1 switch protein 2 OS=Homo sapiens GN=GOS2 PE=1 SV=1

METVQELIPLAKEMMAQKRKGKMKVLYVLGSLVLFVGLMETVCSPTAARRLRDQE  
AAVAELQAALERQALQKQALQEKGKQDQTVLGGRLSNRQHAS

>sp|Q99999|G3ST1\_HUMAN Galactosylceramide sulfotransferase OS=Homo sapiens GN=GAL3ST1  
PE=1 SV=1

MLPPQKKPWESMAKGLVLGALFTSFLLLVYSYAVPPLHAGLASTTPEAAAASCSPPALEPE  
AVIRANGSAGECQPRRNIVFLKTHKTASSTLLNILFRFGQKHRLKFAFPNGRNDFDYPTF  
FARSLVQDYRPGACFNIICNMRFHYDEVRLVPTNAIFITVLRDPARLFESSFHYFGPV  
VPLTWKLSAGDKLTEFLQDPDRYYDPNGFNAHYLRNLLFFDLGYDNSLDPSSPQVQEHL  
EVERRFHLVLLQEYFDESLLKDLLCWELEDVLYFKLNARRDSPVPRLSGELYGRATAW  
NMLDSHLYRHFNASFWRKVEAFGRERMAREVAALRHANERMRTICIDGGHAVDAAAIQDE  
AMQPWQPLGTKSILGYNLKKSIGQRHAQLCRRMLTPEIQYLMDLGANLWVTKLWKFIRDF  
LRW

>sp|Q9UIM3|FKBPL\_HUMAN FK506-binding protein-like OS=Homo sapiens GN=FKBPL PE=1 SV=1

METPPVNTIGEKDTSQPQQEWKLNRENLDVSIQIRQQPRDPPTETLELEVSPDPASQIL  
EHTQGAELVAELEGDSHSHGSTSQMPEALQASDLWYCPDGSFVKKIVIRGHGLDKPKL  
GSCCRVLALGFPGSGPPEGWTELTMGVGPWREETWGELIEKCLESMCQGEEAELQLPGH  
SGPPVRLTLASFTQGRDSWELETSEKEALAREERARGTELFRAGNPEGAARCYGRALRLL  
LTLPPPGPPERTVLHANLAACQLLLGQPQLAAQSCDRVLEREPHLKALYRRGVAQAALG  
NLEKATADLKKVLAIDPKNRAAQEELGKVVIQGNQDAGLAQGLRKMFG

>sp|Q9H9S5|FKRP\_HUMAN Fukutin-related protein OS=Homo sapiens GN=FKRP PE=1 SV=1

MRLTRCQAALAAAITLNLVLFYVSWLQHQPRNSRARGPRRASAAGPRVTVLVREFEAFD  
NAVPELVDSFLQQDPAQPVVVAADTLPPPLALPRIPNVRALLQPALDRPAAASRPETY  
VATEFVALVPDGARAEAPGLLERMVEALRAGSARLVAAPVATANPARCLALNVSLREWTA  
RYGAAPAAPRCDALDGAUVLLRRARDLNLAPLARPVGTSFLQTALRGWAVQLDLTF  
AAARQPPLATAHARWKAEREGRARRAALLRALGIRLVSWEGGRLEWFGCNKETTTRCFGTV  
VGDTPAYLYEERWTPCCLRALRETARYVVGVLAAAGVRYWLEGGSLGAARHGDIIPWD  
YDVDLGIYLEDVGNCEQLRGAEAGSVVDERGFVWEKAVEGDFFRVQYSES NHLHVDLWPF  
YPRNGVMTKDTWLDHRQDVEFPEHFLQPLVPLPFAGFVAQAPNNYRRFLELKFPGV IEN  
PQYPNPALLSLTGSG

>sp|O75072|FKTN\_HUMAN Fukutin OS=Homo sapiens GN=FKTN PE=1 SV=2

MSRINKNVVLALLTLTSSAFLLFQLYYYKHVLTSTKNGAGLSKSKGSRIGFDSTQWRAVKK  
FIMLTSNQNPVFLIDPLILELINKNFEQVKNSTSHGSTSQCKFFCVPRDFTAFALQYHLW  
KNEEGWFRIAENMGFQCLKIESKDPRLDGIDSLSGTEIPLHYICKLATHAIHLVVFHERS  
GNYLWHGHLRLKEHIDRKVFVPRKLQFGRYPGAFDRPELQQVTVDGLEVLIPKDPMHFVE  
EVPHSRFIECRYKEARAFFQQYLDDNTVEAVAFRKSARELLQLAAKTLNKLGVPPWLSSG  
TCLGWYRQCNIIPYSKDVLDGIFIQDYKSDIILAFQDAGLPLKHKFGKVEDSLELSFQ GK  
DDVKLDVFFFYETDHMWNGGTQAKTGKKFKYLFPKFTLCWTEFVDMKVHVPCETLEYIE  
ANYGKTWKIPVKTWDWKRSPPNVQPNGIWPISWDEVIQLY

>sp|Q14315|FLNC\_HUMAN Filamin-C OS=Homo sapiens GN=FLNC PE=1 SV=3

MMNNSGYSDAGLGLGDETDEMPSTEKDLAEDAPWKKIQNTFTRWCNEHLKCVGKRLTDL  
QRDLSDGLRLIALLEVLSSQKMYRKHFHPRPNFRQMKENVSVALEFLEREHIKLVSIDSK  
AIVDGNLKLILGLIWTILHYSISMPMWEDEDEDARKQTPKQRLLGWIQNKVPQLPITN  
FNRDWQDGKALGALVNCAPGLCPDWEAWDPNPVENAREAMQQADDWLGVPPVIAPEEI  
VDPNVDEHSVMTYLSQFPKAKLKPGAPVRSKQLNPKKAIAYGPGIEPQNTVLQPAHFTV  
QTVDAVGVEVLVYIEDPEGHTEEAKVVPNNDKDRTYAVSYVPKVAGLHKVTVLFAGQNE  
RSPFEVNVGMALGDANKVSARGPGLPEVGNVANKPTYFDIYTAGAGTGDVAVVIVDPQGR  
RDTVEVALEDKGDSTFRCTYRPAMEGPHTVHVAFAGAPITRSPFPVHVSEACNPACRAS  
GRGLQPKGVVRVKEVADFVFTKGAGSGELKVTVKGPKGTEEPVKVREAGDGVFECEYYPV  
VPGKYVVTITWGYYAIPRSPFEVQVSPEAGVQKVRWGPGLGTGQVGSADFVVEAIGTE  
VGTLGFSIEGPSQAKIECDDKGDGSCDVRYWPTEPGEYAVHVICDDEDIRDSPFIAHILP  
APPDCCFPDKVKAFGPGLPTGCIVDKPAEFTIDARAAGKGLKLYAQDADGCPIDIKVIP  
NGDGTFRCSYVPTKPIKHTIIISWGGVNVPKSPFRVNVGEGSHPERVKVYGPVVEKTGLK  
ANEPTYFTVDCSEAGQGDSVIGIKCAPGVVGAADIDFDIKNNDNTFTVKYTPPGAGR  
YTIMVLFANQEIPASPFHIKVDPSHDASKVKAEGPGLNRTGVEVGKPTHFTVLTGAGKA  
KLDVQFAGTAKGEVVRDFEIIDNHDSYTVKYTAVQQGNMAVTVTYGGDPVPKSPFVVNV  
APPLDLSKIKVQGLNSKVAVGQEAFSVNTRGAGGQGLDVRMTSPSRRIIPCKLEPGGG  
AEAQAVRYMPPEEGPYKVDITYDGHPVPGSPFAVEGVLPPDPKVCAYGPKGGLVGTP  
APFSIDTKGAGTGGLTVEGPCEAKIECQDNGDGSCAVSYLPTEPGEYTINILFAEHI  
PGSPFKATIRPVFDPKSVRASGGLERGVGEAATFTVDCSEAGEAELTIEILSDAGVKA  
EVLHNNADGTYHITYSPAFTGYTITIKYGGHPVPKFPTRVHVQPAVDTSGVKVSGPGV  
EPHGVLREVTTEFTVDARSLTATGGNHVTARVLNPSGAKTDTYVTDNGDGTYRVQYTAYE  
EGVHLVEVLYDEVAVPKSPFRVGVTEGCDPTRVRAFGPGLGGLVNKANRFTVETRGAGT  
GGLGLAIEGPSEAKMSCKDNKDGSCCTVEYIPFTPGDYDVNITFGGRPIPGSPFRVPKDV  
VDPGVKCSGPGLGAGVRARVPQTFTVDCSQAGRPLQVAVLGPTGVAEPVEVRDNGDGT  
HTVHYTPATDGPYTVAVKYADQEVPRSPFKIKVLPAMDASKVRASGGLNASGIPASLPV  
EFTIDARDAGEGLLTQILDPEGPKKANIRDNGDGTYSYLPDMSGRYTITIKYGGDE  
IPYSPFRIHALPTGDASKCLTVSIGGHGLGACLGPRIQIGQETVITVDAKAAGEGKVTC  
TVSTPDGAELDVDVENHDGTFDIYYTAPEPGKYVITIRFGGEHIPNSPFHVLACDPLPH  
EEEPSEVPQLRQPYAPPRPGARPTHWATEEPVVPVPMESMLRPFNLVIPFAVQKGELTG  
EVRMPSGKTARPNTDNKDGTTIVRYAPTEKGLHQMGIKYDGNHIPSPLQFYVDAINS  
HVSAYGPGLSHGMVNKPATFTIVTKDAGEGGLSLAVEGPSKAEITCKDNKDGTCVSYLP  
TAPGDYSIIIVRFDDKHIPGSPFTAKITGDDSMRTSQLNVGTSTDVSLKITESDLSQLTAS  
IRAPSGNEEPCLLKRLPNRHIGISFTPKVEGHHVSVRKSCKHVTNSPFKILVGPSEIGD  
ASKVRVWGKGLSEGHTFQVAEIVDTRNAGYGGGLGLSIEGPSKVDINCEMEDGTCKVTY

CPTEPGTYIINIKFADKHVPGSPFTVKVTGEGRMKESITRRRQAPSIATIGSTCDLNLKI  
PGNWFQMVSAQERLTRTFRSSHYYTRTERTEISKTRGGETKREVRVEESTQVGGDPFPA  
VFGDFLGRERLGSFGSITRQQEGEASSQDMTAQVTSPSGKVEAAEIVEGEDSAYSVRFP  
QEMGPHTVAVKYRGQHVPSPFQFTVGPLGEGGAHKVRAGGTGLERGVAGVPAEFSIWTR  
EAGAGGLSIAVEGPSKAEIAFEDRKDGSCGSYVVQEPGDYEVSIFNDEHIPDSPFVVP  
VASLSDDARRLTVTSLQETGLKVNQPAFAVQLNGARGVIDARVHTPSGAVEECYVSELD  
SDKHTIRFIPHENGVSIDVKFNGAHIPGSPFKIRVGEQSQAGDPGLVSAYGPGLEGTT  
GVSSEFIVNTLNAGSGALSVTIDGPSKVQLDRECPEGHVVYTPMAPGNYLIAIKYGGP  
QHIVGSPFKAKVTGPRLSGGSHLHETSTVLVETVTKSSSSRGSSYSIPKFSDDASKVVT  
RGPGLSQAFVGQKNSFTVDCSKAGTNMMMVGVHGPKTPCEEVYVKHMGNRVYNVTYTVKE  
KGDYILIVKWGDESVPSPFKVKVP

>sp|Q9NZU1|FLRT1\_HUMAN Leucine-rich repeat transmembrane protein FLRT1 OS=Homo sapiens  
GN=FLRT1 PE=1 SV=3

MDLRDWLFLCYGLIAFLTEVIDSTTCPSVCRCDNNGFIYCNDRLTSIPADIPDDATTLYL  
QNNQINNAGIPQDLTKVNVQVIYLYENDLDEFPINLPRSLRELHLQDNNVRTIARDSLA  
RIPLLEKLHLDDNSVSTVSIIEEAFADSKQLKLLFLSRNHLSSIPSGLPHTLEELRLDDN  
RISTIPLHAFKGLNSLRLVLGDGNLANQRIADDTFSRLQNLTELSVRNSLAAPPLNP  
SAHLQKLYLQDNAISHIPYNTLAKMRELERLDLSNNLTTLPRGLFDDLGNLAQLLLRNN  
PWFCGCNLMWLRDWVKARAAVNVNRLMCQGPEKVRGMAIKDITSEMDECFETGPQGGVA  
NAAAKTTASNHASATTPQGSFLTKAKRPGLRLPDSNIDYPMATGDGAKTLAIHVKALTA  
DSIRITWKATLPASSFRLSWLRLGHSPAVGSITETLVQGDKTEYLLTALEPKSTYIICMV  
TMETSNAAYVADETPVCAKAETADSYGPTTTLNQEQNAGPMASPLAGIIGGAVALVFLFL  
VLGAICWYVHQAGELLTRERAYNRGRKKDDYMESGTTKDNSILEIRGPGLQMLPINPYR  
AKEEYVHTIFPSNGSSLCKATHITIGYGTTRGYRDGGIPDIDYSY

>sp|Q5VTH2|FLTOP\_HUMAN Protein Flattop OS=Homo sapiens GN=CFAP126 PE=2 SV=1

MATNYSANQYEKAFSSKYLQNWSPKPTKESISSHEGYTQIIANDRGHLLPSVPRSKANP  
WGSFMGTWQMPLKIPPARVTLTSRTTAGAASLTKWIKNPDLKASNGLCPEILGKPHDP  
DSQKKLRKKSITKTVQQAARSPTIIPSSPAANLNSPDELQSSHPSAGHTPGPQRPAS

>sp|B3EWG6|FM25G\_HUMAN Protein FAM25G OS=Homo sapiens GN=FAM25G PE=3 SV=1

MLGGLGKLAAEGLAHRTEKATEGAIIHAVEEVVKEVVGHAKETGEKAIIEAIIKKAQESGDK  
KMKEITETVTNTVTNAITHAAESLDKLGQ

>sp|Q9BVV2|FNDC11\_HUMAN Fibronectin type III domain-containing protein 11 OS=Homo sapiens  
GN=FNDC11 PE=1 SV=1

MSTHVAGLGLDKMKLGNPQSFLDQEEADDQQLLEPEAWKTYTERRNALREFLTSDLSPHL  
LKRHHARMQLLRKCSYYIEVLPKHLALGDQNPVLPSALFQLIDPWKFQRMKKVGTAQTK  
IQLLLLGDLLEQLDHGRAELDALLRSPDPRPFLADWALVERRLADVSAVMDSFLTMMVPG  
RLHVKHRLVSDVSATKIPHIWMLSTKMPVVFDKASAAHQDWARLRWFVTIQPATSEQY  
ELFRLLDPRTQCECAQCGVIPVAACTFDVRNLLPNRSYKFTIKRAETSTLVYEPWRDSL  
TLHTKPEPLEGPALSHSV

>sp|Q9H6D8|FNDC4\_HUMAN Fibronectin type III domain-containing protein 4 OS=Homo sapiens  
GN=FNDC4 PE=2 SV=1

MPSGCHSSPPSGLRGDMASLVPLSPYLSPTVLLLVSCDLGFVRADRPSPVNVTVTHLRA  
NSATVSWDVPEGNIVIGYSISQQRQNGPGQRVIREVNTTTRACALWGLAEDSDYTVQVRS  
IGLRGESPPGPRVHFRTLKGSRLPSNSSSPGDITVEGLDGERPLQTGEVVIIVVLLMW

AAVIGLFCRQYDI IKDNDSSNNNPKEKGKGPEQSPQGRPVGTRQKKSPSINTIDV

>sp|Q8NAU1|FNDC5\_HUMAN Fibronectin type III domain-containing protein 5 OS=Homo sapiens  
GN=FNDC5 PE=1 SV=3

MHPGSPSAWPPRARAALRLWLGCVCFALVQADSPSAPVNVTVRHLKANSAVVSWDVLEDE  
VVIGFAISQQKKDVRMLRFIQEVNTTTRSCALWDLEEDTEYIVHVQAISIQQGSPASEPV  
LFKTPREAEKMASKNKDEVTKEMGRNQQLRTGEVLIIVVVLFMWAGVIALFCRQYDIIK  
DNEPNNNKEKTKSASETSTPEHQGGGLLSKI

>sp|P49356|FNTB\_HUMAN Protein farnesyltransferase subunit beta OS=Homo sapiens GN=FNTB  
PE=1 SV=1

MASPSSTYYCPPSSSPVWSEPLYSLRPEHARERLQDDSVETVTSIEQAKVEEKIQEVFS  
SYKFNHLVPRLLVLRQEKHFHYLKRGLRQLTDAYECLDASRPWLCYWILHSLELLDEPIQ  
IVATDVCQFLELCQSPGEGFGGGPGQYPHLAPTYAAVNALCIIGTEEAYDIINREKLLQY  
LYSLKQPDGSFLMHVGGEDVRSAYCAASVASLTNIITPDLFEGTAEWIARCQNWEGGIG  
GVPGMEAHGGYTFCGLAALVILKRERSLNLKSLQWVTSRQMRFEGGFQGRCNKLVDCGY  
SFWQAGLLPLLHRALHAQGDPAISMSHWMFHQQALQEYILMCCQCPAGGLLDKPGKSRDF  
YHTCYCLSGLSIAQHFGSGAMLHDVVVLGVPENALQPTHPVYNIGPDKVIQATTYFLQKPV  
PGFEELKDETSAEPATD

>sp|P15328|FOLR1\_HUMAN Folate receptor alpha OS=Homo sapiens GN=FOLR1 PE=1 SV=3

MAQRMTTQLLLLLVWVAVVGEAQTRIAWARTELLNVCMNAKHHKEKPGPEDKLHEQCRPW  
RKNACCSTNTSQEAHKDVSYLRYFNWNHCGEMAPACKRHFIQDTCLEYCSPNLGPWIIQQV  
DQSWRKERVNLNVLCKEDCEQWWEDCRTSYTCKSNWHKGWNWTSGFNKCAVGAACQPFHF  
YFPTPTVLCNEIWTHSYKVSNSYRSGSGRCIQMWFDPAQGNPNEEVARFYAAAMSGAGPWA  
AWPFLLSLALMLLWLLS

>sp|P01100|FOS\_HUMAN Proto-oncogene c-Fos OS=Homo sapiens GN=FOS PE=1 SV=1

MMFSGFNADYEASSSRCSSASPAGDSLSEYHSPADSFSSMGSPVNAQDFCTDLAVSSANF  
IPTVTAISTSPDLQVLVQPALVSSVAPSQTRAPHFPGVPAPSAGAYSRAAGVVKMTMTGGA  
QSIGRRGKVEQLSPEEEERIRRRERNKMAAAKCRNRRRELDTLQAETDQLEDEKSALQ  
TEIANLLKEKEKLEFILAHRPACKIPDDLGFPEEMSVASLDLTGGLPEVATPESEEAFT  
LPLLNDPEPKPSVEPVKSISSMELKTEPFDDFLFPASSRPSGSETARSPDMDLSGSFYA  
ADWEPLHSGSLGMGPMATELEPLCTPVVCTPSCTAYTSSVFVTYPEADSFPSCAAHRK  
GSSSNEPSSDSLSSPTLLAL

>sp|Q9Y261|FOXA2\_HUMAN Hepatocyte nuclear factor 3-beta OS=Homo sapiens GN=FOXA2 PE=1  
SV=1

MLGAVKMEGHEPSDWSSYYAEPEGYSSVSNMAGLGMNGMNTYMSMSAAAMGSGSGNMSA  
GSMNMSSYVGAGMSPSLAGMSPGAGAMAGMGGSAGAAGVAGMGPPLSPSLPLGGQAAGA  
MGGLAPYANMNSMSPMYGQAGLSRARDPKTYRRSYTHAKPPYSYISLITMAIQQSPNKML  
TLSEIYQWIMDLFPFYRQNRQWQNSIRHSLSFNDCFLKVPSPDKPGKGSFWTLHPDSG  
NMFENGCYLRRQKRFKCEKQLALKEAAGAAGSGKAAAGAAQASQAQLGEAAGPASETPAG  
TESPHSSASPCQEHKRGGLGELKGTAAAALSPPEPAPSPGQQQAAAHLGPPHHPGLPP  
EAHLKPEHHYAFNHFPFSINNLMSSSEQQHSHSHHHQPHKMDLKAYEQVMHYPGYGSMPMG  
SLAMGPVTNKTGLDASPLAADTSYYQGVYSRPIMNSS

>sp|Q99853|FOXBI\_HUMAN Forkhead box protein B1 OS=Homo sapiens GN=FOXBI PE=1 SV=3

MPRPGRNTYSQKPPYSYISLTAMAIQSSPEKMLPLSEIYKFIMDRFPYRENTQRWQNS  
LRHNLSFNDCFIKIPRRPDQPGKGSFWALHPSCGDMFENGSLRRRKRKFVLKSDHLAPS

KPADAAQYLQQQAKLRLSALAASGTHLPQMPAAAYNLGGVAQPSGFKHPFAIENIIAREY  
KMPGGLAFSAMQPVPAAYPLPNQLTTMGSSLGTGWPHVYGSAGMIDSATPISMASGDYSA  
YGVPLKPLCHAAGQTLPAIPVPIKPTPAAVPALPALPAPIPTLLSNSPPSLSPSSQTAT  
SQSSPATPSETLTSPASALHSVAHV

>sp|Q92949|FOXJ1\_HUMAN Forkhead box protein J1 OS=Homo sapiens GN=FOXJ1 PE=1 SV=3  
MAESWLRLSGAGPAEEAGPEGGLEEPDALDDSLTSLQWLQEFSSILNAKAPALPPGGTDPH  
GYHQVPGSAAPGSPLAADPACLGQPHTPGKPTSSCTSRSAAPPGLQAPPPDDVDYATNPHV  
KPPYSYATLICMAMQASKATKITLSAIYKWITDNFCYFRHADPTWQNSIRHNLSLNKCFI  
KVPREKDEPGKGGFWRIDPQYAEERLLSGAFKKRRLPPVHIHPAFARQAAQEPSAVPRAGP  
LTVNTEAQQLREFEETGEAGWGAGEGRLGHRKQPLPKRVAKVPRPPSTLLPTPEEQG  
ELEPLKGNFDWEAIFDAGTLGGELGALEALELSPPLSPASHVDVLDLTIHGRHIDCPATWG  
PSVEQAADSLDFDETFLATSLQHPWDESGGCLPPEPLFEAGDATLASDLQDWASVGAF  
L

>sp|Q08050|FOXM1\_HUMAN Forkhead box protein M1 OS=Homo sapiens GN=FOXM1 PE=1 SV=3  
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GIKIIHPTMPNTQVVAIPNNANIHSIITALTAKGESGSSGPNKFILISCGGAPTQPPG  
LRPQTQTSYDAKRTEVTLETGLPKPAARDVNLPRPPGALCEQKRETCADGEAAGCTINNS  
LSNIQWLRKMSSDGLGSRSLKQEMEEKENCHLEQRQVKVEEPSRPSASWQNSVSRPPYS  
YMAMIQFAINSTERKRMCLKDIYTWIEDHFPYFKHIAKPGWKNSIRHNLSLHDMFVRETS  
ANGKVSFWTIHPSANRYLTLDQVFKPLDPGSPQLPEHLESQKRPNPELRRNMTIKTELP  
LGARRKMKPLPRVSSYLVPIQFPVNQSLVLQPSVKVPLPLAASLMSSELAHRSKRVRIA  
PKVLLAEEGIAPLSSAGPGKEEKLLFGEGFSPLLVPQTIKEEIIPGEEMPHLARPIKVE  
SPPLEEWSPAPSFKEESSHSEDSSQSPTPRPKSYGLRSPTRCVSEMLVIQHRERRE  
RSRSTRKQHLLPPCVDEPELLFSEGPSTSRWAAELPFPADSSDPASQLSYSQEVGGPFKT  
PIKETLPISSTPSKSVLPRTPESWRLTPPAKVGGLDFSPVQTSQGASDPLPDPLGLMDLS  
TTPLQSAPPLESPQRLLSSEPLDLISVPFGNSSPSDIDVPKPGSPEPQVSGLAANRSLTE  
GLVLDTMNDSLSKILLDISFPGLEDPLGPDNINWSQFIPELQ

>sp|Q6ZUU3|FOXNB\_HUMAN FOXL2 neighbor protein OS=Homo sapiens GN=FOXL2NB PE=2 SV=1  
MTRTPVGSARTRPKPRKLGPQRGKALQASSRLESSEPALVKKRMPDACTLGRAGIGLPKMC  
LHMAVRHKAQKTGPGILQQRQKPPAPRASGGPALLGKRRGCSEAGSASLEPLSSSRAAA  
GCLNQVPLSPFLAGPRNTRRLPAPERERIELAATLCLEGWPLRCLASKGLHCY

>sp|Q12778|FOXO1\_HUMAN Forkhead box protein O1 OS=Homo sapiens GN=FOXO1 PE=1 SV=2  
MAEAPQVVEIDPDFEPLPRPRSCTWPLRPEFSQNSATSSPAPSGSAAANPDAAAGLPS  
ASAAAVSADFMSNLSLEESEDFPQAPGSVAAAAAATAATGGLCGDFQGPEAGCLHP  
APPQPPPPGPLSQHPPVPPAAAGPLAGQPRKSSSRRAWGNLSYADLITKAIESSAEKR  
LTLSQIYEWVKSVPYFKDKGDSNSSAGWKNSIRHNLSLHSEKFIQVNEGTGKSSWMLN  
PEGGKSGKSPRRRAASMDNNSKFAKSRRAAKKKASLQSGQEGAGDSPGSQFSKWPASPG  
SHSNDDFDNWSTFRPRTSSNASTISGRLSPIMTEQDDLGEQDVHSMVYPPSAKMASTLP  
SLSEISNPENMENLLDNLNLLSSPTSLTVSTQSSPGTMMQQTPCYSFAPPNTSLNSPSPN  
YQKYTYGQSSMSPLQMPIQTLQDNKSSYGGMSQYNCAPGLLKELLTSDSPPHNDIMTPV  
DPGVAQPNRVLGQNVMMGPNSVMSTYGSQASHNKMMPSSHTHPGHAQQTSAVNGRPLP  
HTVSTMPHTSGMNRLTQVKTPVQVPLPHPMQMSALGGYSSVSSCNGYGRMGLLHQEKLP  
DLDMGFIERLDCMESIIRNDLMDGDTLDFNFDNVLPNQSFPHSVKTTTHSWVSG

>sp|Q9BZS1|FOXP3\_HUMAN Forkhead box protein P3 OS=Homo sapiens GN=FOXP3 PE=1 SV=1

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LNPMPPSQLQLPTLPLVMVAPSGARLGPLPHLQALLQDRPHFMHQLSTVDAHARTPVLQV  
HPLESPAMISLTPTTATGVFSLKARPGLPPIVASLEWVSREPALLCTFPNPSAPRKD  
STLSAVPQSSYPLLANGVCKWPGCEKVFEEDFLKHCQADHLLDEKGRAQCLLQREMVQ  
SLEQQVLVEKEKLSAMQAHLAGKMALTKASSVASSDKGCCIVAAGSQGPVVPASWGP  
APDSLFAVRRHLWGSHGNSTFPEFLHNMDYFKFHNMRPPFTYATLIRWAILEAPEKQRTL  
NEIYHWFTRMFAFFRNHPATWKNAIRHNLSLHKCFVRVESEKGAVWTVDELEFRKKRSQR  
PSRCSNPTPGP

>sp|Q64ET8|FRG2\_HUMAN Protein FRG2 OS=Homo sapiens GN=FRG2 PE=2 SV=1

MGKGNEDSDLHCSSIQCSTDQPPFQQISFTEKGSDEKKPFKEKGKTAFSHSSEKHIQRQG  
SEPNPNKENSEETKLKAGNSTAGSEPESSSYRENCRKRMSSKSDSCQDTAGNCPEKECSL  
SLNKKSRSSSTAVHNSEIQTCDAAHHRGHSRACTGHSKRHRSRALGVQTPSIRKSLVTSVR  
AMSEAVYQDLAQVWAQQIHSPLTCEQLTLLTRLRGPLCAQVQTLYSMATQAAYVFPAESW  
LVPATLPGPGESALDREAHPPGQEITETVSGSDEAKL

>sp|Q14331|FRG1\_HUMAN Protein FRG1 OS=Homo sapiens GN=FRG1 PE=1 SV=1

MAEYSYVKSTKLVLKGTKTSSKKKKSKDKKRKREDEETQLDIVGIWWTVTNFGEISGTI  
AIEMDKGTIYIHALDNGLFTLGAPHKEVDEGPSPEQFTAVKLSDSRIALKSGYGKYLGIN  
SDGLVVGSRDAIGPREQWEPVFQNGKMALLASNSCFIRCNEAGDIEAKSKTAGEEEMIKI  
RSCAERETKKKDDIPEEDKGNVKQCEINYVKKFQSFQDHLKISKEDSKILKKARKDGFL  
HETLLDRRAKLKADRYCK

>sp|P02792|FRIL\_HUMAN Ferritin light chain OS=Homo sapiens GN=FTL PE=1 SV=2

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEEKR  
EGYERLLKMQNQRGGRALFQDIKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSA  
RTDPLHLCDFLETHFLDEEVKLKKMGDHLTNLHRLGGPEAGLGEYLFERLTLKHD

>sp|Q9Y2L6|FRM4B\_HUMAN FERM domain-containing protein 4B OS=Homo sapiens GN=FRMD4B PE=1  
SV=4

MASVFMCGVEDLLFSGSRFVWNLTVSTLRRWYTERLRACHQVLRTWCGLQDVYQMTEGRH  
CQVHLLDDRLELLVQPKLLARELLDLVASHFNLKEKEYFGITFIDDTGQQNWLQLDHRV  
LDHDLPKKPGPTILHFAVRFYIESISFLKDKTTVELFFLNAKACVHKGQIEVESETIFKL  
AAFILQEAKGDYTSDENARKDLKTLPAFPTKTLQEHPSLAYCEDRVIEHYLKIKGLTRGQ  
AVVQYMKIVEALPTYGVHYYAVKDKGLPWWLGISYKGIGQYDIQDKVKPRKLFQWKQLE  
NLYFREKKFAVEVHPRRISVSRRTFGQSGLFVQTWYANSSLIKSIWMAISQHQFYLD  
KQSKAKIPSARSLDEIAMDLTETGTQRASKLVLTETKSQFIMASNGSLISSGSQDSEVSE  
EQKREKILELKKKEKLLQEKLKKVEELKKICLREAELTGMPKEYPLNIGEKPPQVRRR  
VGTAFLKDDNLLPSEEDPALQELESNFLIQKLVAAKKLANEPDLCKTVKKRQDYTD  
AMKKLQEIENAINERYIRCGKKPSQKATVLPEDIIPSESSSLSDTTTYDDPSDAFTFPGQ  
RSSSVPHSPRILPPKSLGIERIHFRKSSINEQFVDTRQSREMLSTHSSPYKTLERRPQGG  
RSMPTTPVLTRNAYSSSHLEPESSSQHCRQRSGSLESQSHLLSEMDSDKPFFSLSKSQRS  
SSTEILDDGSSYSQSSTEYVCVPTVTPGYTYTQTLDTTRTRGRRRSKKQNVSTSNSGSMP  
NLAQKDSLNRNGVYSKSQEPSSSYIAGYTPYAECDFYYSGGYVYENDTEGQYSVNPSYR  
SSAHYGYERQRDYSRSFHEDEVDRVPHNPYATLRLPRKAAKSEHITKNIHKALVAEHLR  
GWYQRASGQKQGHSPQTSFSDRGSQRCLGFAGLQVPCSPSSRASSYSSVSSTNASGNW  
RTQLTIGLSDYETPAHSSYTSCYGNVYNPLPSPSRQYTEISQLDGTGDNQLEDNLESSEQ  
RLFWHEDSKPGTLV

>sp|Q8N878|FRMD1\_HUMAN FERM domain-containing protein 1 OS=Homo sapiens GN=FRMD1 PE=2 SV=2

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PSREQRLRAVGVKATGRELFQQVCNVASIRDAQFFGLCVVRNNEYIFMDLEQKLSKYFSK  
DWKKERNEGNEKPRAPFVAFLRVQHYVENGRVISDHRARHLYYCHLKERVLSQCAHREE  
AYFLLAACALQADLGEHRESAHAGRYFEPHSYFPQWIITKRGIDYILRHMPTLHRERQGL  
SPKEAMLCFIQEACRLEDVPVHFFRLHKDKKEGRPTVILGLALRGVHIYQGKKLEIQLDG  
LPAAQKL VYYTGCTWRSRHLHLRASHQLHLRVRPTLQQLRQREEAEEKQHYRESYISD  
ELELDLASRSFPGSGVSSQHCPHCLSRHSADSHGSSYSGIKANSWLRESREMSVDVPLE  
VHGLHEKEPSSSPRTSRSHPSTRGDSQATRQEPCTQVRTRGQSAEAVHQIQEMTAGVSEE  
QHSHGLDDMLHQLALHPAPTSLSHTFHRALDCRLAGPCETRATLPSKRSSNCLALDLFG  
EAPPQEFVV

>sp|Q5TBA9|FRY\_HUMAN Protein furry homolog OS=Homo sapiens GN=FRY PE=1 SV=1

MASQQDSGFFEISIKYLLKWSNTSPVNGYIKPPVPPASGTHREKGPPTMLPINVDPDS  
KPGEYVLKSLFVNFTQAERKIRIIMAEPLEKPLTKSLQRGEDPQFDQVISSMSSLSEYC  
LPSILRTLFDWYKRQNGIEDESHEYRPRTSNKSKSDEQQRDYLMERRDLAIDFIFSLVLI  
EVLKQIPLHPVIDSLIHDVINLAFKHFYKEGYLGNTGNMHIVADLYAEVIGVLAQAKF  
PAVKKKFMAELKELRHEQNPNYVVSIIISLIMGMKFFRIKMYPVEDFEASLQFMQECAHY  
FLEVKDKDIKHALAGLFVEILVPVAAVKNEVNPCLRNPFVESLYDTTLELSSRKKHSLA  
LYPLVTCLLCVSQKQLFLNRWHIFLNNCLSNLKNKDPKMARVALESYRLLWVYMIRIKC  
ESNTATQSRLITITTLFPKSGRGVPRDMPLNIFVKIIQFIAQERLDFAMKEIIFDFLC  
VGKPAKAFSLNPERMNI GLRAFLVIADSLQQKDGEPPMPVTGAVLPSGNTLRVKKTYLSK  
TLTEEEAKMIGMSLYYSQVRKAVDNILRHL DKEVGRCMMLTNVQMLNKEPEDMITGERKP  
KIDLFRTCVAAIPRLPDGMSKLELIDLLARLSIHMDDEL RHIAQNSLQGLLVDFSDWRE  
DVLFGFTNFLREVN DMHTLLDSSLKLLQLLTQWKLVIQTQGKVYEQANKIRNSELIA  
NGSSHRIQSERGPHCSVLHAVEGFALVLLCSFQVATRKL SVLILKEIRALFIALGQPEDD  
DRPMIDVMDQLSSSILESFIHVAVSDSATLPLTHNVDLQWLVEWNAVLVNSHYDVKSPSH  
VWIFAQSVKDPWWLCLFSFLRQENLPKHCPTALSYAWPYAFTRLQSV MPLVDPNSPINAK  
KTSTAGSGDNVYTLWRNYLILCFGVAKPSIMSPGHLRASTPEIMATTPDGTVSYDNKAIG  
TPSVGVLLKQLVPLMRLESIEITESLVLGFGRTNSLVFRELVEELHPLMKEALERRPENK  
KRRERRDLRLQLLRIFELLADAGVISDSTNGALERDTLALGALFLEYVDLTRMLLEAEN  
DKEVEILKD IRAHFSAMVANLIQCVPVHRRFLFPQQSLRHHLFILFSQWAGPFSIMFTP  
LDRYSDRNHQITRYQYCALKAMSAVLC CGPVFDNVGLSPDGYLYKWLDNILACQDLRVHQ  
LGCEVVVLLLELNP DQINLFNWAIDRCYTGSYQLASGCFKAIATVCGSRNYPFDIVTLLN  
LVLFKASDTNREIYEISMQLMQILEAKLFVYSKKVAEQRPGSILYGTGHPLPPLYSVSLA  
LLSCELARMYPELTLP LFSEVSQRFP TTHPNGRQIMLT YLLPWLHNI ELVDSRLLLP GSS  
PSSPEDEVKDREGDVTASHGLRGNGWGSPEATSLVLNNLMYMTAKYGDEVPGPEMENAWN  
ALANNEKWSNNLRITLQFLISLCGVSSDTVLLPYIKKVAIYLCRNNTIQTMEELLFELQQ  
TEPVNPIVQHCDNPPFYRFTASSKASAAASGTTSSSNTV VAGQENFPDAEENKILKESDE  
RFSNVI RAHTRLESRYSNSSGGSYDEDKNDPISPYTGWLLTITETKQPQPLMPCTGGCW  
APLVDYLPETITPRGPLHRCNIAVIFMTEMVVDHSVREDWALHLPLLLHAVFLGLDHYP  
EVFEHKKLLHL LIALSCNSNFHSIASVLLQTREMGEAKTLTVQPAYQPEYLYTGGFDF  
LREDQSSPVPD SGLSSSSTSSISLGGSSGNLPQMTQEVEDVDTAETDEKANKLIEFLT  
TRAFGPLWCHEDITPKNQNSKSAEQLTNFLRHVVSVFKDSKSGFHLEHQLSEVALQ TALA



SSSRHYAGRSFQIFRALKQPLSAHALSDLLSRLVEVIGEHDGDEIQGYVMEALLTLEAAVD  
NLSDCLKNSDLLTVLSRSSSPDLSSSSKLTASRKSTGQLNMNPGTTSNGTATAERSRHQR  
SFSVPKKFGVIDRSSDPPRSATLDRIQACTQQGLSSKTRSSSSLKDSLTDPSHINHPTNL  
LATIFWVTVALMESDFEFEYLMALRLLSRLLAHMPDKAENREKLEKLQAQLKWADFSGL  
QQLLLKGFTSLTTTDLTLQLFSLTPVSKISMVDASHAIGFPLNVLCLLPQLIQHFENPN  
QFCKDIAERIAQVCLEEKNPKLSNLAHVMTLYKTHSYTRDCATWVNVVCRYLHEAYADIT  
LNMVTYLAELLEKGGLPSVQQPLLQVIYSLLSYMDLSVVPVKQFNVEVLKTIKQVQSVHW  
REALNILKLVSRSASLVLPQSYQHSLSKIEIHRVWTSASKELPGKTLDFHFDISETPII  
GRRYDELQNSSGRDGKPRAMAVTRSTSSTSSGSNSNVLPVSWKRPQYSQKRTKEKLVHV  
LSLCGQEVGLSKNPSVIFSSCGDLDLLEHQTSLVSSSEDGAREQENMDDTNSEQQFRVFRD  
FDFLDEVEEDGEGESMDNFNWGVRRLSLDSLDCDMQILEERQLSGSTPSLNKMHEDSD  
ESSEEDLTASQILEHSDLIMTLPSEETNPMELLTTACDSTPAEPHSFNTRMSSFASL  
PDMNNLQISEGSKAEAVREEEDTTVHEDDLSSINELPAAFECSDFSMDMTEGEEKGNR  
ALDQFTLASFGEGDRGVSPPPSPFFSAILAAFQPAACDDAEAEWRSHINQLMCDSDGSCA  
VYTFHVFSSLFKNIQKRFCTLCDAAASYLGDNLRGIGSKFVSSSQMLTSCSECPTLFVDA  
ETLLSCGLLDKLFKFSVLELQEYLDTYNNRKEATLSWLANCKATFAGGSRDGVITCQPGDS  
EEKQLELCQRLYKLFHFQLLLLFQSYCKLIGQVHEVSSMPELLNMSRELSDLKKHLKEASA  
VIAADPLYSDGAWSEPTFTSTEAATQSMLECLKNNELGKALRQIRECRSLWPNDIFGSSS  
DDEVQTLNLIYFRHQTGQTGTALVGSNQSLTEICTKLMELNMEIRDMIRRAQSYRVLT  
TFLPDSSVSGTSL

>sp|Q9NQT6|FSCN3\_HUMAN Fascin-3 OS=Homo sapiens GN=FSCN3 PE=2 SV=1

MDETEWIHRHPKAEDLRVGLISWAGTYLTFEACKNTVTATAKSLGRRQTWEILVSNEHET  
QAVVRLKSVQGLYLLCECDGTVCYGRPRTSHHGCFLLRFHRNSKWTQLCLISGRYLESNG  
KDVFACTSHVLSAYHMWTPRALHVHVIYSPIHRCYARADPTMGRIWVDAAVPCLEECGF  
LLHFRDGCYHLETSTHHFLSHVDRLFSQPSSQTAFFHMQVRPGGLVALCDGEGGMLYPQGT  
HLLGMGCNPMRGEEWFIHQHPTWVSLRSKTGRFISVIYDGEVRAASERLNRMSLFQFE  
CDESPTVQLRSANGYYLSQRRHRAVMADGHPLESDTFFRMHWNCGRILQSCRGRFLGI  
APNSLLMANVILPGPNEEFILFANRSFLVLRGRYGYVGSSSGHDLIQCNQDQPDRIHLL  
PCRPGIYHFQAQGGSFWSITSFGTFRPWGKFALNFCIELQGSNLLTVLAPNGFYMRADQS  
GTLLADSEDTRECIWEF

>sp|Q8N475|FSTL5\_HUMAN Follistatin-related protein 5 OS=Homo sapiens GN=FSTL5 PE=2 SV=2

MFKCWSVVLVLGFI FLESEGRPTKEGGYGLKSYQPLMRLRHKQEKNESSRVKGFMIQDG  
PFGSCENKYCGLGRHCVTSRETGQAECACMDLCKRHYKPVCGSDGEFYENHCEVHRAACL  
KKQKITIVHNEDCFKGDCKTTEYSKMKNMLDLQNQKYIMQENENPNGDDISRKLLV  
DQMFKYFDADSNGLVDINELTQVIKQEELGKDLFDCTLYVLLKYDDFNADKHLALEEFYR  
AFQVIQLSLPEDQKLSITAATVGQSAVLSCAIQGTLRPPIIWKRNNIILNNDLEDINDF  
GDDGSLYITKVTTHVGNITCYADGYEQVYQTHIFQVNVPPVIRVYPSQAREPGVTASL  
RCHAEGIPKPKLGLWLNKIDITPKLSKQLTLQANGSEVHISNVRYEDTGAYTCIAKNEAG  
VDEDISSLFVEDSARKTLANILWREEGLIGNMFYVVFYEDGIKVIQPIECEFQRHIKPSE  
KLLGFQDEVCPKAEGDEVQRCVWASAVNVKDKFIYVAQPTLDRVLIVDVQSQKVVQAVST  
DPVPVKLHYDKSHDQVWVLSWGTLEKTSPTLQVITLASGNVPHHTIHTQPVGKQFDRVDD  
FFIPTTTLIIITHMRFGFILHKDEAALQKIDLETMSYIKTINLKDYKCPQSLAYTHLGGY  
YFIGCKPDSTGAVSPQVMVDGVTDSVIGFNSDVTGTPYVSPDGHYLVINDVKGLVRVQY  
ITIRGEIQEAFDIYTNLHISDLAFQPSFTEAHQYNIYGSSSTQTDVLFVELSSGKVKMIK

SLKEPLKAEWPNRKNRQIQDSGLFGQYLMTPSKDSLFI LDGRLNKLNCEITEVEKGNT  
VIWVGDA

>sp|O15552|FFAR2\_HUMAN Free fatty acid receptor 2 OS=Homo sapiens GN=FFAR2 PE=1 SV=1  
MLPDWKSSLILMAYIIIFLTGLPANLLALRAFVGRIRQPQPAPVHILLSLTLADLLLLL  
LLPFKIIIEASNFRWYLPKVVCALTSFGFYSSIYCSTWLLAGISIERYLGVAFPVQYKLS  
RRPLYGVIAALVAWVMSFGHCTIVIIVQYLNTEQVRSGNEITCYENFTDNQLDVVLPVR  
LELCLVLFPIPMAVTIFCYWRFWIMLSQPLVGAQRRRRRAVGLAVVTLNFLVCFGPYNV  
SHLVGYHQRKSPWWSIAVVFSSLNASLDPLLFYFSSSVVRAFGRLQVLRNQGSLLG  
RRGKDTAEGTNEDRGVGQGEGMPSSDFTTE

>sp|O14843|FFAR3\_HUMAN Free fatty acid receptor 3 OS=Homo sapiens GN=FFAR3 PE=1 SV=1  
MDTGPDSYFSGNHWVFSVYLLTFLVGLPLNLLALVVFGVGLQRRPVAVDVLLLNLTA  
DLLLLFLPFMRVEAANGMHWPLPFILCPLSGFIFFTTIYLTALFLAAVSIERFLSVAHP  
LWYKTRPRLGQAGLVSVACWLLASAHCSVVYVIEFSGDISHSQGTNGTCYLEFRKDLAI  
LLPVREMAVVLFVVP LIITSYCYSRLVWILGRGSHRRQRRVAGLLAATLLNFLVCFGP  
YNVSHVVG YICGESPAWRIYVTLSTLNSCVDPFVYFSSSGFQADFHELLRRLCGLWGQ  
WQEQSSMELKEQKGEEQRADRP AERKTSEHSQCGTGGQVACAES

>sp|P05230|FGF1\_HUMAN Fibroblast growth factor 1 OS=Homo sapiens GN=FGF1 PE=1 SV=1  
MAEGEITTFALTTEKFNLP PGNYKKPKLLYCSNGGHFLRILPDGTV DGTDRSDQHIQLQ  
LSAESVGEVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEK  
NWFVGLKKN GSCKRGPRTHYGGKAILFLPLPVSSD

>sp|Q9NSA1|FGF21\_HUMAN Fibroblast growth factor 21 OS=Homo sapiens GN=FGF21 PE=1 SV=1  
MDSDETFGEHSGLVWSVLAGLLGACQAHPIPDSSPLLQFGGQVRQRYLYTDDAQQTEAH  
LEIREDGTVGGAADQSPESLLQLKALKPGV IQILGVKTSRFLCQRPD GALYGS LHFDP  
CSFRELLLEDGYNVYQSEAHGLPLHLPGNKSPHRDPAPRGPARFLPLPLPALPEPPGI  
LAPQPPDVGSSDPLSMVGPSQGRSPSYAS

>sp|P21802|FGFR2\_HUMAN Fibroblast growth factor receptor 2 OS=Homo sapiens GN=FGFR2 PE=1  
SV=1

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RCLLKDAAVISWTKDGVHLGPNNR TVLIGEYLQIKGATPRDSGLYACTASRTVDSETWYF  
MVNVTDAISSGDEDDTDGAEDFVSENSNNKRAPYWTNTEKMEKRLHAVPAANTVKFRCP  
AGGNPMP TMRWLKNGKEFKQEHRIGGYKVRNQHWSLIMESVVP SDKGN YTCV VENEYGS  
NHTYHLDVVERS PHRPILQAGLPANASTVVG DVEFVCKVYSDAQPHIQWIKHVEKNGSK  
YGPDGLPYLKV LKAAGVNTTDKEIEVLYIRNVT FEDAGEYTCLAGNSIGISFHS AWLTVL  
PAPGREKEITASPDYLEIAIYICIGVFLIACMVVTVILCRMKNTTKKPDFSSQPAVHKLTK  
RIPLRRQVTVSAESSSSMNSNTPLVRITR LSSTADTPMLAGVSEYELPEDPKWEFPRDK  
LTLGKPLGEGCFGQVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKM  
IGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLRARRPPGMEYSYDINRVPEEQMTF  
KDLVSCTYQLARGMEY LASQKCIHRDLAARNVLVTENVMKIADFG LARDINNIDYYKKT  
TNGRLPVKWM APEALFDRVYTHQSDVWSFGVLMWEIFTLGSPYPGIPVEELFKLLKEGH  
RMDKPANCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRI LTLTTNEEYLDLSQPLEQYS  
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>sp|Q9BXU8|FHL17\_HUMAN Ferritin heavy polypeptide-like 17 OS=Homo sapiens GN=FTHL17 PE=2  
SV=1

MATAQPSQVRQKYDTNCDAAINSHITLEYTSYLYLSMAFYFNRDDVALENFFRYFLRLS

DDKMEHAQKLMRLQNLRGGHICLHDIRKPECQGWESGLVAMESAFHLEKNVNQSLDLQ  
LAVEKGDPQLCHFLESHYLHEQVKTIKELGGYVSNLRKICSPEAGLAEYLFDKLTLGGRV  
KET

>sp|Q14192|FHL2\_HUMAN Four and a half LIM domains protein 2 OS=Homo sapiens GN=FHL2 PE=1  
SV=3

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECKPIGCDCKDLSYKDRH  
WHEACFHCSQCRNSLVDPFAAKEDQLLCTDCYSNEYSSKCQECKKTIMPGTRKMEYKGS  
SWHETCFICHRCQPIGTGSFIPKDNQNFVPCYEKQHAMQCVQCKKPITGGVTYREQP  
WHKECFVCTACRKQLSGQRFTARDDFAYCLNCFCDLYAKKAGCTNPISGLGGTKYISFE  
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>sp|Q9Y613|FHOD1\_HUMAN FH1/FH2 domain-containing protein 1 OS=Homo sapiens GN=FHOD1 PE=1  
SV=3

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LLGAPLKLEDCALQVSPSGYYLDELSELEEQREMLEGFYEEISKGRKPTLILRTQLSVRV  
NAILEKLYSSSGPELRRSLFSLKQIFQEDKDLVPEFVHSEGLSCLIRVGAAADHNYQSYI  
LRALGQLMLFVDGMLGVVAHSDTIQWLYTLCASLSRLVVKTALKLLLVEYSENNAPLF  
IRAVNSVASTTGAPPWANLVSILEEKNGADPELLVYTVTLINKTLAALPDQDSFYDVTDA  
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GKRSRRLSEGGGCPARAPEPGPTGPASVPGTSSTGPALLTGPASSVGPSPGLQASVNL  
FPTISVAPSADTSSERSIYKARFLENVAAAETEKQVALAQGRAETLAGAMPNEAGHPDA  
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IGDLDFSDLGEDEDQDMLNVESVEAGKDIPAPSPPLPLSGVPPPPPLPPPPPIKGPFPF  
PPPLPLAAPLPHSVDPSSALPTKRKTVKLFWRELKLAGGHGVSASRFGPCATLWASLDPV  
SVDTARLEHLFESRAKEVLPSKKAGEGRRMTTVLDPKRSNAINIGLTTLPPVHVKAAL  
LNFDEFVSKDGEIKLLTMMPTEEERQKIEEAQLANPDIPLGAENFLMTLASIGGLAAR  
LQLWAFKLDYDSMERIEAEPFLDKVGMELVQNAFRCILATLLAVGNFLNGSQSSGFE  
LSYLEKVSEVKDTRRRQSLHHLCSLVLQTRPESSDLYSEIPALTRCAKVDFEQLTENLG  
QLERRSRAAEESLRLAKHELAPALRRLTHFLDQCARRVAMLRIVHRRVCNRFHAFLLY  
LGYTPQAAREVRIMQFCHTLREFALEYRTCRRVLQQQQKQATYRERNKTRGRMITETEK  
FSGVAGEAPSNPSVPVAVSSGPGRGDADSHSMKSLTSRPEDTTHNRRSRGMVQSSSPI  
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>sp|Q2V2M9|FHOD3\_HUMAN FH1/FH2 domain-containing protein 3 OS=Homo sapiens GN=FHOD3 PE=1  
SV=2

MATLACRVQFLDDTPFNSTNFPEPSRPPLFTFREDLALGTQLAGVHRLQAPHKLDDCT  
LQLSHNGAYLDLEATLAEQRDELEGFQDDAGRGKKHSIILRTQLSVRVHACIEKLYNSSG  
RDLRRALFSLKQIFQDDKDLVHEFVVAEGLTCLIKVGAEDQNYQNYILRALGQIMLYVD  
GMNGVINRNETIQWLYTLIGSKFRLVVKTALKLLLVEYSESNAPLLIQAVTAVDTKRG  
VKPWSNIMEILEEKDGVDELLVYAMTLVNKTLSGLPDQDTFYDVVDCLEELGIAAVSQR  
HLNKKGTDLDLVEQLNIYEVALRHEDGDETTEPPPSGCRDRRRASVCSSGGGEHRLDRR  
RSRRHSVQSISTLSAPTSPCSQSAPSFKNQVRDLREKYSNFGNNSYHSSRPSSGSSVP  
TTPTSSVSPQEARLERSPPSGLLTSSFRQHQESLAAERERRRQEREERLQRIEREERNK  
FRYKYLEQLAAEEHEKELRSRSVSRGRADLSLDLTSPAAPACLAPLSHPSSSDSQEALT  
VSASSPGTPHHPQASAGDPEPESEAEPEAEAGAGQVADEAGQDIASAHEGAETEVEQALE

QEPEERASLSEKERQNEGVNERDNCSASSVSSSSSTLEREEKEDKLSRDRTTGLWPAGVQ  
DAGVNGQCGDILTNRKFMLDMLYAHNRKSPDDEEKGDGEAGRTQQEAEAVASLATRISTL  
QANSQTQDESVRVDVGCLDNRGSVKAFAEKFNSGDLGRGSI SPDAEPNDKVPETAPVQP  
KTESDYIWDQLMANPRELRIQDMFTDLGEEDDIDVLDVDLGHREAPGPPPPPPPTFLGL  
PPPPPPPLDSIPPPVPGNLLVPPPPVFNAPQGLGWSQVPRGQPTFTKKKKTIIRLFWNE  
VRPFDWPCKNRRCREFLWSKLEPIKVDTSRLEHLFESKSKELSVSKKTAADGKRQEIIIV  
LDSKRSNAINIGLTVLPPPRTIKIAILNFDEYALNKEGIEKILTMIPTDEEKQKIQAQL  
ANPEIPLGSAEQFLLTLSSISELSARLHLWAFKMDYETTEKEVAEPLDLKEGIDQLENN  
KTLGFI LSTLLAIGNFLNGTNAKAFELSYLEKVPEVKDTHVKQSLHHVCTMVVENFPDS  
SDLYSEIGAITRSKVDQDLQDNLQCMERRCKASWDHLKATAKHEMKPVLKQRMSEFLK  
DCAERIIILKIVHRRINRHFHSFLFMGHPPYAIREVNI NKFRIISEFALEYRTTRERV  
LQQKQKRANHRERNKTRGKMITDSGKFSGSSPAPPSQPQGLSYAEDAAEHENMKAVLKTS  
SPSVEDATPALGVRTSRASRGSTSSWTMGTDSPNVTDDAADEIMDRIVKSATQVPSQR  
VVPREKRKSRANRKSRLRRTLKSGLTPEEARALGLVGTSELQL

>sp|Q03591|FHR1\_HUMAN Complement factor H-related protein 1 OS=Homo sapiens GN=CFHR1 PE=1  
SV=2

MWLLVSVILISRISSVGGEATFCDFPKINHGILYDEEKYKPFQVPTGEVFYYSCEYNFV  
SPSKSFWTRITCTEEGWSPTPKCLRLCFFPFVENGHSESSGQTHLEGDTVQIICNTGYRL  
QNNENNISCVERGWSTPPKCRSTDTSCVNPPTVQNAHILSRQMSKYPSGERVRYECSR  
PYEMFGDEEVMCLNGNWTEPPQCKDSTGKCGPPPIDNGDITSFPLSVYAPASSVEYQCQNL  
YQLEGNKRITCRNGQWSEPPKCLHPCVISREIMENYNIALRWTAKQKLYLRTGESAEFVC  
KRGYRLSSRSHTLRTTCWDGKLEYPTCAKR

>sp|Q9BXR6|FHR5\_HUMAN Complement factor H-related protein 5 OS=Homo sapiens GN=CFHR5 PE=1  
SV=1

MLLLFSVILISWVSTVGEGTLCDFPKIHHGFLYDEEDYNPFSQVPTGEVFYYSCEYNFV  
SPSKSFWTRITCTEEGWSPTPKCLRMCSFPFVKNHSESSGLIHLEGDTVQIICNTGYSL  
QNNENKISCVERGWSTPPICSFTKGECHVPILEANVDAQPKESYKVGDLKFSCRKNLI  
RVGSDSVQCYQFGWSPNFPTCKGQVRSCGPPQLSNGEVKEIRKEEYGHNEVVEYDCNPN  
FIINGPKKIQCVDGEWTTLPCTVEQVKTCGYIPELEYGYVQPSVPPYQHGVSVVEVNCRNE  
YAMIGNNMITCINGIWTELPVCVATHQLKRCKIAGVNIKTLLKLSGKEFNHNSRIRYRCS  
DIFRYRHSVCINGKNPEVDCTEKREQFCPPPPQIPNAQNMTT VNYQDGEKVAVLCKEN  
YLLPEAKEIVCKDGRWQSLPRCVESTAYCGPPPSINNGDTSFPLSVYPPGSTVTYRCQS  
FYKLQGSVTVTNRNKQWSEPPRCLDPCVVSEENMNKNNIQLKWRNDGKLYAKTGDAVEFQ  
CKFPHKAMISSPPFRAICQEGKFEYPICE

>sp|P02671|FIBA\_HUMAN Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2

MFSMRIVCLVLSVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSACKDSDWPFCSDWDW  
NYKCPSGCRMKGLIDEVNQDFTNRINKLKNLSFEYQKNNKDSHSLTTNIMEILRGDFSSA  
NNRDNTYNRVSEDLRSRIEVLKRKVIEKVQHIQLLQKNVRAQLVDMKRLEVDIDIKIRSC  
RGSCSRALAREVDLKDYEDQQKQLEQVIAKDLLPSRDRQHPLIKMKPVPDLPVGNFKSQ  
LQKVPEWKALTDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS  
GPGSTGNRNPSSSGTGGTATWKP GSSGPGSTGSWNSGSSGTSTGNQNPSPRGSTGTW  
NPGSSERGSAGHWTSSESVSGSTGQWHSESGSFRPDSPGSGNARNPNPDWGTFEVSGNV  
SPGTRREYHTEKLVTSKGDKELRTGKEKVTSGSTTTTTRSCSKTVTKTVIGPDGHKEVTK  
EVTSEDGSDCPEAMDGLTSGIGTLDGFRHRHPDEAAFFDTASTGKTFPGFFSPMLGEF

VSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTSYNRGDSTFESKS  
YKMADEAGSEADHEGTHSTKRGHAKSRPVRDCDDVLQTHPSGTQSGIFNIKLPGSSKIFS  
VYCDQETS LGG WLLIQQRMDGSLNFNRTWQDYKRGFGSLNDEGEFEWLGN DY LHLLTQR  
GSLVRVELEDWAGNEAYAEYHFRVGSEAEGYALQVSSYEGTAGDALIEGSVEEGA EYTS H  
NNMQFSTFDRDADQWEENCAEVYGGGWYNNCQAANLNGIYYPGGSYDPRNNSPYEIENG  
VVWVSFRGADYSLRAVRMKIRPLVTQ

>sp|P02675|FIBB\_HUMAN Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

MKRMVSWSFHKLTKMHL LLLLLCVFLVKSQGVNDNEEGFFSARGHRPLDKKREEAPSLR  
PAPPPISGGGYRARPAAAAATQKKVERKAPDAGGCLHADPDLGVLCPTGCQLQEALLQQE  
RPIRNSVDELNNNVEAVSQ TSSSSSFQYMYLLKDLWQKRQKQVKDNENVNEYSSELEKHQ  
LYIDETVNSNIPTNLRLVRSILENLRSKIQLKLESDVSAQMEYCRTPTCTVSCNIPVVS GKE  
CEEIIRKGGGETSEMYLIQPDS SVKPYRVYCDMNTENG GWTVIQNRQDGSVD FGRKWD PYK  
QGGFNVATNTDGKNYCGLPGEYWLGNDKISQLTRMGPTELLIEMEDWKGD KVKAHYGGFT  
VQNEANKYQISVNKYRG TAGNALMDGASQLMGENRTMTIHNGMFFSTYDRDNDGWLTS DP  
RKQCSKEDGGGWYNRCHAANPNGRYYWGGQYTWDMAKHGTDDGVVWMNWKGSWYSMRKM  
SMKIRPFFPQQ

>sp|Q8TAL6|FIBIN\_HUMAN Fin bud initiation factor homolog OS=Homo sapiens GN=FIBIN PE=1  
SV=1

MVFLKFFCMSFFCHLCQGYFDGPLYPEMSNGTLHHYFVPDGDYEENDPEK CQLLFRVSD  
HRRCSQGEQSQVGSLLSLTLREEFTVLGRQVEDAGRVLEGISKSISYDL DGEESYGKYLR  
RESHQIGDAYSNSDKSLTELESKFQGGQE QDSRQESRLNEDFLGMLVHTRSLLKETL DIS  
VGLRDKYELLALTIRSHGTRLGRLKNDYLVK

>sp|Q96AY3|FKBP10\_HUMAN Peptidyl-prolyl cis-trans isomerase FKBP10 OS=Homo sapiens  
GN=FKBP10 PE=1 SV=1

MFPAGPPSHSLLRLPLLQLLLL VVQAVGRGLGRASPAGGPLEDVVIERYHIPRACPREVQ  
MGDFVRYHYNGTFEDGKKFDSSYDRNTLVAIVVGVGRLITGMDRGLMGMCVNERRRLIVP  
PHLGYGSIGLAGLIPPDATLYFDVVL LDVWNKEDTVQVSTLLRPPHCPRMVQDGFVRYH  
YNGTL LDGTSFDTSYSGGTYDTYVGS GWLIKGM DQG LLG MCPGERRKIIIPPFLAYGEK  
GYGTVIPPQASLVFHVLLIDVHNPKDAVQLETLELP GCVR RAGAGDFMRYHYNGSLMDG  
TLFDSSYSRNHTYNTYIGQGYIIPGMDQGLQGACMGERRRITIPPHLAYGENGTGDKIPG  
SAVLIFNVHVIDFHNPADVVEIRTL SRPSETCNETTKL GDFVRYHYNC SL LDGTQLFTSH  
DYGAPQEATLGANKVIEGLDTGLQGM CVGERRQLIVPPH LAHGESGARGVPGSAVLLFEV  
ELVSREDGLPTGYLFVWHKDPPANLFEDMDLNKDGEVPPEEFSTFIKAQVSEGKGR LMPG  
QDPEKTIGDMFQNQDRNQDGKITVDELKLKSD EDEERVHEEL

>sp|043155|FLRT2\_HUMAN Leucine-rich repeat transmembrane protein FLRT2 OS=Homo sapiens  
GN=FLRT2 PE=1 SV=1

MGLQTTKWPSHGAFFLKSWLIISLGLYSQVSKLLACPSVCRCDRNFVYCNERSLTSVPLG  
IPEGVTVLYLHNNQINNAGFPAELHNVQSVHTVYLYGNQLDEFPMNLPKNVRVLHLQENN  
IQTISRAALAQLLKLEELHLD DNSISTVGVEDGAFRE AISL KLLFLSKNHLSSVPVGLPV  
DLQELRV DENRIAVISDMAFQNL TSLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRN  
SLSHPPPDLP GTHLIRLYLQDNQINHIPLTAFSNLRKLERLDISNNQLRMLTQGVFDNLS  
NLKQLTARNNPWFCDCSI KWVTEWLKYIPSSLNVRGFM CQGPEQVRGM AVRELNMNLLSC  
PTTTPGLPLFTPAPSTASPTTQPPTLSIPNPSRSYTPPTPTTSKLPTIPDWDGRERVTPP  
ISERIQLSIHFVNDTSIQVSWLSLFTVMAYKLTWVKMGHSLVGGIVQERIVSGEKQHLSL

VNLEPRSTYRICLVPLDAFNRAVEDTICSEATTHASYLNNGSNTASSHEQTTSHSMGSP  
FLLAGLIGGAVIFVLVLLSVFCWHMHKKGRYTSQKWYNRGRRKDDYCEAGTKKDNSIL  
EMTETSFQIVSLNNDQLLKGFRLQPIYTPNGGINYTDCHIPNNMRYCNSSVPDLEHCHT

>sp|P36888|FLT3\_HUMAN Receptor-type tyrosine-protein kinase FLT3 OS=Homo sapiens GN=FLT3  
PE=1 SV=2

MPALARDGGQLPLLVVFSAMIFGTITNQDLPIKCVLINHKNDSSVGKSSSYPMVSESP  
EDLGCALRPQSSGTVYEA-AAVEVDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDL  
QNRGVVSMVILKMTETQAGEYLLFIQSEATNYTILFTVSIRNTLLYLRRPYFRKMENQD  
ALVCISESVPEPIVEWVLCDSQGESCKEESPAVVKKEEKVLHELFGTDIRCCARNELGRE  
CTRLFTIDLNQTPQTTLPLQLFLKVGEPLWIRCKAVHVNHGFGLTWELENKALEEGNYFEM  
STYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALVTIVEKGFINATNSSDYE  
IDQYEEFCFSVRFKAYPQIRCTWTFSRKSPCEQKGLDNGYSISKFCNHHKHQGEYIFHA  
ENDDAQFTKMFTLNIRRKPVLA-EASASQASCFSDGYPLPSWTWKKCDKSPNCTEEITE  
GVWNRKANRKVFGQWVSSSTLNMSEAIKGLVKCCAYNSLGTSCETILLNSPGPFPIQD  
NISFYATIGVCLLFIVVLTLLICHKYKKQFRYESQLQMVQVTGSSDNEYFYVDFREYEYD  
LKWEFPRENLEFGKVLGSGAFGKVMNATAYGISKTGVSIQVAVKMLKEKADSSEREALMS  
ELKMMTQLGSHENIVNLLGACTLSGPIYLI-FEYCCYGDLLNYLRSKREKFHRTWTEIFKE  
HNFSFYPTFQSHPNSSMPGSREVQIHPDSDQISGLHGNSFHSEDEIEYENQKRLEEEEDL  
NVLTFEDLLCFAYQVAKGMEFLEFKSCVHRDLAARNVLVTHGKVVKICDFGLARDIMSDS  
NYVVRGNARLPVKWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPYPGIPVDANFYK  
LIQNGFKMDQPFYATEEIIYIMQSCWAFDSRKRPSPNLTSLGLCQLADAE-AMYQNVDG  
RVSECPHTYQNRPPFSREMDLGLLSPQAQVEDS

>sp|Q9HBA9|FOH1B\_HUMAN Putative N-acetylated-alpha-linked acidic dipeptidase OS=Homo  
sapiens GN=FOLH1B PE=2 SV=1

MGGSAPPDSSWRGSLKVSYNVGPFGFTGNFSTQKVKMHIHSTNEVTRIYNVIGTLRGAVEP  
DRYVILGGHRDSWVFGGIDPQSGAAVVHETVRSFGTLKKEGWRPRRTILFASWDAEEFGL  
LGSTEWAE-DNSRLLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVYNLTKEKSPDEGF  
EGKSLYESWTKKSPSEFSGMPRI-SKLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSG  
YPLYHSVYETELVEKFYDPMFKYHLTVAQVRGGMVFELANSIVLPFDCRDYAVVLRKYA  
DKIYNISMKHPQEMKTYSLSFDSLFS-AVKNFTEIASKFSERLQDFDKSNPILLRMMNDQL  
MFLERAFIDPLGLDRPFYRHVIYAPSSH-NKYAGESFPGIYDALFDIESKVDPSKAWGDV  
KRQISVAAFTVQAAAETLSEVA

>sp|P15408|FOSL2\_HUMAN Fos-related antigen 2 OS=Homo sapiens GN=FOSL2 PE=1 SV=1

MYQDYPGNFDTSRSGSSGSPAHAESYSSGGGGQKFRVDMPGSGSAFIPTINAITTSQDL  
QWMVQPTVITSMNPYPRSHPYSPPLGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLS  
PEEEEKRRIRRRERNKLA-AKCRNRRRELTEKLQAETEELEEEKSGLQKEIAELQKEKEKL  
EFMLVAHGPVCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEPLEEDSPSSSSAGLDK  
AQRSVIKPISIAGGFYGEELHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASPS-ESC  
SKAHRSSSSGDQSSDSLNSPTLLAL

>sp|Q9UJU5|FOXD3\_HUMAN Forkhead box protein D3 OS=Homo sapiens GN=FOXD3 PE=1 SV=1

MTLSGGGSASMSGQTIVLTAEDVDIDVVGEGDDGLEEKDS-DAGCDSPAGPPELRLDEADE  
VPPAAPHHGQPQPPHQPLTLPKEAAGAGAPGGDVGAPEADGCKGGVGGEEGGASGGGP  
GAGSGSAGGLAPSKPKNSLVKPPYSYIALITMAILQSPQKKLTLSGICEFISNRF-PYYRE  
KFP-PAWQNSIRHNLSLNDCFVKIPREPGNPGKGNWTLDPQSEDMFDNGSFLRRRKRFRKH

QQEHLREQTALMMQSFQSLAAAGAGPYGRPYGLHPAAAAGAYSHPAAAAAAAAAAAA  
LQYPYALPPVAPVLPVAVPLPSGELGRKAAAFGSQGLPGLQLQLNSLGAAGTAGA  
AGTTASLIKSEPSARPSFSIENIIGGGAAPGGSAGVAGVAGGTGGSGGGSTAQSFLRPP  
GTVQSAALMATHQPLSLRSTTATIAPILSVPLSGQFLQPAASAAAAAAAAAAQAKWPAQ

>sp|P55316|FOXG1\_HUMAN Forkhead box protein G1 OS=Homo sapiens GN=FOXG1 PE=1 SV=2

MLDMGDRKEVKMIPKSSFSINSLVPEAVQNDNHHASHGHNSHHPQHSHHHHHHHHHHPP  
PAPQPPPPPPQPPPPPPPPAPQPPQTRGAPAADDDKGPQQLLPPPPPPPPAAALDGAK  
ADGLGGKGEPPGGPGELAPVGPDEKEKGAGAGGEEKKGAGEGKDGEGGKEGEKNGKYE  
KPPFSYNALIMMAIRQSPEKRLTLNGIYEFIMKNFPYYRENKQGWQNSIRHNLSLNKCFV  
KVPRHYDDPGKGNWMLDPSSDDVFIGGTTGKLRRTTSRAKLAFKRGARLTSTGLTFM  
DRAGSLYWPMSPFLSLHHPRASSTLSYNGTTSAYPSHPMPYSSVLTQNSLGNNHSFSTAN  
GLSVDRLVNGEIPYATHHLTAAALAASVPCGLSVPCSGTYSLNPCSVNLLAGQTSYFFPH  
VPHPSMTSQSSTSMSARAASSSTSPQAPSTLPCESLRPSLPSFTTGLSGGLSDYFTHQNN  
GSSSNPLIH

>sp|Q96QU4|FRG2B\_HUMAN Protein FRG2-like-1 OS=Homo sapiens GN=FRG2B PE=2 SV=1

MGKGNEDPDLHCSSIQCSTDQPPFQQISFTEKGSDEKKPFKEKGKTAFSHSSEKHIQRQG  
SEPNPNKENSEETKLKAGNSTAGSEPESSSYRENCRRKRMSSKDSCQDTAGNCPEKECSL  
SLNKKSRSTPVHNSIETCTDAHHRGRSRCTGRSKRHRSRALGVQTPSIRKSLVTSVR  
AMSEAVYQDLAQVWAQQIHSPLTCEQLTLLTRLRGPLCAQVQTLYSMATQAAYVFPAESW  
LVPATLPGPGESALDREAHFPFGQEITETVSGSDEAKL

>sp|Q6IN97|FRP2L\_HUMAN Putative protein FRMPD2-like OS=Homo sapiens GN=FRMPD2B PE=5 SV=1

MTSIPFPGDRLLQVDGVILCGLTHKQAVQCLKPGQVARLVLERRVPRSTQQCPSANDSM  
GDERTAVSLVTALPGRPSSCVSVTDGPKFEVKLKKNANGLGFSFVQMEKESCSHLKSDLV  
RIKRLFPGPQAEENGATAAGDIILAVNGRSTEGLIQEVHLHLLRGAPQEVTLTLLCRPPPG  
ALPEMEQEWQTPELSADKEFTRATCTDCTSPILDQEDSWRDSASPDAGEGLGLRPSSQ  
KAIREAQWQGNRERPWASSLTHSPESHPLCKLHQRDESTLATSLEKDVRQNCYSVCDI  
MRLGRYSFSSPLTRLSTDIF

>sp|Q5H9T9|FSCB\_HUMAN Fibrous sheath CABYR-binding protein OS=Homo sapiens GN=FSCB PE=2  
SV=3

MVGKSQQTDVIEKKKHMAIPKSSSPKATHRIGNTSGSKGSYSKAYESIRVSSELQQTWT  
KRKHGQEMTSKSLQTDITVEEKKEVKLVEETVVPPEKSADVREAAIELPESVDVEIPP  
IPSVQLKMDRSQQTSRTGYWTMMNIPPVEKVDKEQQTYFSESEIVVISRPDSSSTKSKED  
ALKHKSSGKIFASEHPEFQPATNSNEEIGQKNISRTSFTQETKKGPPVLEDELREEVT  
PVVQEGSAVKVASAEIEPPSTEKFPKIQPPLVEEATAKAEPRAEETHVQVQPSTEET  
PDAAEATAVAENSVKVQPPPAEEAPLVEFPAETQPPSAEESPSVELLAEILPPSAEESPS  
EEPPAEILPPPAEKSPVELLGEIRSPSAQKAPIEVQPLPAEGALEEAPAKVEPPTVEET  
LADVQPLLPEEAPREEARELQLSTAMETPAEEAPTEFQSPLPKETTAEASAEIQLLAAT  
EPPADETPAEARSPLSEETSAEEAHAEVQSPLAEETTAEASAEIQLLAIEAPADETPA  
EAQSPLSEETSAEEAPAEVQSPSAKGVSIIEAPLELQPPSGEETTAEASAAIQLLAATE  
ASAEAPAEVQPPPAEEAPAEVQPPPAEEAPAEVQPPPAEEAPAEVQPPPAEEAPAEVQ  
PPAEAPAEVQPPPAEEAPAEVQSLPAEETPIETLAHVHSPADDVPAEEASVDKHSPP  
ADLLLTEEFPIGEASAEVSPPPSEQTPEDEALVENVSTEFQSPQVAGIPAVKLGSVVLEG  
EAKFEEVSKINSVLKDLSTNDGQAPTLEIESVFHIELKQRPEL

>sp|Q96I24|FUBP3\_HUMAN Far upstream element-binding protein 3 OS=Homo sapiens GN=FUBP3  
PE=1 SV=2

MAELVQGGSAPVGMKAEGFVDALHRVRQIAAKIDSIPHLNNSTPLVDPSVYGYGVQKRPL  
DDGVGNQLGALVHQRTVITEEFKVPDKMVGFIIGRGGEQISRIQAESGCKIQIASESSGI  
PERPCVLTGTPESIEQAKRLLGQIVDRCRNGPGFHNIDSNSTIQEILIPASKVGLVIGR  
GGETIKQLQERTGVKMVMIQDGLPTGADKPLRITGDAFKVQQAREMVLEIIREKDQADF  
RGVRGDFNSRMGGGSIEVSVPRAVAVGIVIGRNGEMIKKIQNDAGVRIQFKPDDGISPERA  
AQVMGPPDRCQHAAHIISELILTAQERDGFGLAAARGRGRGRGDWSVGAPGGVQEITYT  
VPADKCLVIGKGGENIKSINQQSGAHVELQRNPPNSDPNLRFTIRGVPQQIEVARQL  
IDEKVGGTNLGAPGAFGQSPFSQPPAPPHQNTFPPRSSGCFPNMAAKVNGNPHSTPVSGP  
PAFLTQGWGSTYQAWQQPTQQVPSQQSQPSSQPNYSKAWEDYYKKQSHAASAAPQASSP  
PDYTMAWAEYYRQQVAFYGGTLLGQAQHSQEQ

>sp|075369|FLNB\_HUMAN Filamin-B OS=Homo sapiens GN=FLNB PE=1 SV=2

MPVTEKDLAEDAPWKKIQNTFTRWCNEHLKCVNKRIGNLQTDLSDGLRLIALLEVLSSQK  
RMYRKYHQRPTRFQMQLENVSVALEFLDRESIKLVSDSKAIVDGNLKLILGLVWTLILH  
YSISMPVWEDEGDDDAKKQTPKQRLLGWIQNKIPYLPITNFNQNWQDGKALGALVDSCAP  
GLCPDWESWDPQKPDNAREAMQADDWLGVPPQVITPEEIIHPDVDEHSVMTYLSQFPKA  
KLKPGAPLKPKLNPKKARAYGRGIEPTGNMVKQPAKFTVDTISAGQGDMVMFVEDPEGNK  
EEAQVTPDSDKNKTYSEYLPKVTGLHKVTVLFAQQHISKSPFEVSVDKAQGDASKVTAK  
GPGLEAVGNIANKPTYFDIYTAGAGVDIGVEEDPQGKNTVELLVEDKGNQVYRCVYKP  
MQPGPHVVKIFFAGDTIPKSPFVVQGEACNPACRASGRGLQPKGVRIRETDFKVDTK  
AAGSGELGVTMKGPKGLEELVKQKDFLDGVYAFEYYPSTPGRYSAITWGGHHIPKSPFE  
VQVGPEAGMQKVRWGPGLHGGIVGRSADFVVEISIGSEVSLGFAIEGPSQAKIEYNDQN  
DGSCDVKYWPKEPGEYAVHIMCDEDEDIKDSPYMAFIHPATGGYNPDLVRAYGPGLEKSGC  
IVNNLAEFTVDPKADGAPLKIFAQDGEQQRIDIQMKNRMDGTACSYTPVKAIKHTIAV  
VWGGVNIPHSPYRVNIGQGSHPQKVKVFGPGVERSGLKANEPHTFTVDCTEAGEGDVSVG  
IKCDARVLSEDEEDVDFDIHNANDTFTVKYVPPAAGRYTIKVLFASQEIPASPFVRKVD  
PSHDASKVKAEGPLSKAGVENGKPTHFTVYTKGAGKAPLNVQFNSPLPGDAVKDLDIID  
NYDYSHTVKYTPTQQGNMQVLVTYGGDPIPKSPFTVGVAAPLDLSKIKLNGLENRVEVGK  
DQEFTVDTRGAGGQGLDVTILSPSRKVVPCLVTPVTGRENSTAKFIPREEGLYAVDVTY  
DGHPVPGSPYTVEASLPDPSKVKAHGPGLGGLVGKPAEFTIDTKAGTGGLGLTVEGP  
CEAKIECSNNGDGTCSVSYLPTKPGEYFVNILFEEVHIPGSPFKADIEMPFDPSKVVASG  
PGLHGVGEAGLLSVCSEAGPGALGLEAVSDSGTKAEVSIQNNKDGTYAVTYVPLTAG  
MYTLMKYGGELVPHFPARVKVEPAVDTSRIKVFGPGIEGKDVFREATTDFTVDSRPLTQ  
VGGDHIKAHIANPSGASTECFVDNADGTYYVEYTPFEKGLHVVEVYDDVPINSPFKV  
AVTEGCQPSRVQAQGPGLKEAFTNKNPVFTVTRGAGIGGLGITVEGPSESKINCRDNKD  
GSCSAEYIPFAPGDYDVTNITYGGAHIPGSPFRVPVKDVVDPSKVKIAGPGLGSGVRARVL  
QSFTVDSSKAGLAPLEVRVLGPRGLVEPVNVVDNGDGTHTVYTPSQEGPYMVSVKYADE  
EIPRSPFKVKVLPTYDASKVTASGPGLSSYGVPAFLPVDFAIDARDAGEGLLAVQITDQE  
GKPKRAIVHDNKDGTAVTYIPDKTGRYMIGVTYGGDDIPLSPYRIRATQTDASKCLAT  
GPGIASTVKTGEEVGFVDAKTAGKGKVTCTVLTDPGTEAEADVIEDGTYDIFYTAAK  
PGTYVIYVRFGGVDIPNSPFTVMATDGEVTAVEEAPVNACPPGFRPWVTEEAYVPVSDMN  
GLGFKPFDLVIPIFAVRKGEITGEVHMPSGKTATPEIVDNKDGTVTVRYAPTEVGLHEMHI  
KYMGSHIPESPLQFYVNYPNSGSVSAYGPGLVYGVANKTATFTIVTEDAGEGGLDLAIEG



PSKAEISCIDNKDGTCTVTYLTPLPGDYSILVKYNDKHIPGSPFTAKITDDSRRC SQVKL  
GSAADFLLDISETDLSSLTASIKAPSGRDEPCLLKRLPNNHIGISFIPREVGEHLVSIKK  
NGNHVANSPPV SIMVVQSEIGDARRAKVYGRGLSEGRTFEMSDFIVDTRDAGYGGISLAVE  
GPSKVDIQTEDLEDGTCKVSYFPTVPGVYIVSTKFADEHVP GSPFTVKISGEGRVKESIT  
RTSRAPSVATVGSICDLNLKIPEINSSDMSAHVTSPSGRVTEAEIVPMGKNSHCVRFPVQ  
EMGVHTVSVKYRGQHVTGSPFQFTVGPLGEGGAHKVRAGGPGLERGEAGVPAEFSIW TRE  
AGAGGLSIAVEGSPKAEITFDDHKN GSCGVSYIAQEPGNYEVSIKFNDEHIPESPYLVPV  
IAPSDDARRLTVMSLQESGLKVNQPASF AIRLNGAKGKIDAKVHSPSGAVEECHVSELEP  
DKYAVRFIPHENGVHTIDVKFN GSHVVGSPFKVRVGEPPGAGNPALVSAYGTGLEGGTTG  
IQSEFFINTTRAGPGTLSVTIEGPSKVKMDCQETPEGYKVMYTPMAPGNYLISVKYGGPN  
HIVGSPFKAKVTGQRLVSPGSANETSSILVESVTRSSTETCYS AIPKASSDASKVTSKGA  
GLSKAFVGGKSSFLVDCSKAGSNMLLIGVHGPTTPCEEVSMKHVGNQY NVTVVVKERGD  
YVLAVKWGEEHIPGSPFHVTVP

>sp|075955|FLOT1\_HUMAN Flotillin-1 OS=Homo sapiens GN=FLOT1 PE=1 SV=3

MFFTCGPNEAMVVS GFCSRPPVMVAGGRVFLPCIQQIQRISLNTLT LNVKSEKVYTRHG  
VPISVTGIAQVKIQGQNKEMLAACQMFLGKTEAEIAHIALETLEGHQRAIMAHMTVEEI  
YKDRQKFSEQVFKVASSDLVNMGISVVS YTLKDIHDDQDYLHSLGKARTAQVQKDARIGE  
AEAKRDAGIREAKAKQEKVSAQYLSEIEMAKAQRDYELKKAAYDIEV NTRRAQADLAYQL  
QVAKTKQQIEEQRVQVQVVERAQQVAVQEQEIARREKELEARVRKP AEAEERYKLERLAEA  
EKSQ L IMQAEAEAA SVRMRGEAEAF AIGARARAEAEQMAKAEAFQLYQEA AQLDMLEK  
LPQVAEEISGPLTSANKITLVSSSGTMGA AKVTGEVLDILTRL PESVERLTGVSISQVN  
HKPLRTA

>sp|Q68DA7|FMN1\_HUMAN Formin-1 OS=Homo sapiens GN=FMN1 PE=1 SV=3

MEGTHCTLQLHKPITELCYISFCLPKGEVRGFSYKGTVTLDRSNKG FHCYQVRESDII  
SLSQEPDEHPGDIFFKQTPTKDILTELYKL TTERERLLTNLLSSDHILGITMGNQEGKLQ  
ELSVSLAPEDDCFQSAGDWQGELPVGPLNKRSTHG NKKPRSSGRRESFGALPQKRTKRK  
GRGGRESAPLMGKDKICSSHSLPLSRTRPNLWVLEEKGNLLPNGALACSLQRRESCPPDI  
PKTPD TDLGFGSFETA FKDTGLGREVLPPDCSSTEAGDGIRRPPSGLEHQQTGLSESHQ  
DPEKHPEAEKDEMEKPAKRTCKQKPVSKVVAKVQDLSSQVQRVVKTHSKGKETIAIRPAA  
HAEFVPKADLLTLPGA EAGAHGSRRQGKERQGDRSSQSPAGETASISSVSASAEGAVNKV  
PLKVI ESEKLDEAPEGKRLGFPVHTSVPHTRPETRNKRAGLPLGGHKS LFLDLPHKVGP  
DSSQPRGDKKKPSPPAPAALGKVFNNSASQSSTHKQTSVPSP LSPRLPSPQQHHRILRL  
PALPGERE AALNDSPCRKSRVFSGCVSADTLEPPSSAKVTETKGASPAFLRAGQPRLVPG  
ETLEKSLGPGKTTAEPQHQSPPGISSEGFPWDGFNEQTPKDLPNRDGGAWVLGYRAGPAC  
PFLHHEEREKSNRSELYLDLHPDHSLTEQDDRTPGRLQAVWPPPKTDTEEKVGLKYTEA  
EYQAAILHLKREHKEEIENLQAQFELRAFHIRGEHAMITARLEETIENLKHELEHRWRGG  
CEERKDVCI STDDDCPPKTFRNVCVQTDRETFLKPCES ESKTTRS NQLVPKKLNISSLSQ  
LSPPNDHKDIHAALQPMEGMASNQKALPPPPASIPPPPLPSGLGSLSPAPPMPPVSAG  
PPLPPPPPPPPPLPPSSAGPPPPPPPPPLPNSPAPPNPGGPPPA PPPPG LAPP PPG L F  
FGLGSSSSQCPRKPAIEPSCPMKPLYWTRIQISDRSQNATPTLWDSLEEPDIRDPSEFEY  
LFSKDTTQKKKKPLSETYEKKNKVKKI IKLLDGKRSQTVGILISSLHLEMKDIQQAIFNV  
DDSVVDLETLAALYENRAQEDELVKIRKYYETSKEELKLLDKPEQFLHELAQIPNFAER  
AQCIIFRSVFSEGITSLHRKVEIITRASKDLLHVKS VKDILALILAFGNMNGGNRTRGQ  
ADGYSLEILPKLKDVKSRDNGINLVDYVVKYYLRYYDQEAGTEKSVFPLPEPQDFFLASQ

VKFEDLIKDLRKLKRQLEASEKQMVVCKESPKEYLQPFKDKLEEFFQKAKKEHKMEESH  
LENAQKSFETTTRYFGMKPKSGEKEITPSYVFMVWYEFCSDFKTIWKRESKNISKERLKM  
AQESVSKLTSEKKVETKKINPTASLKERLRQKEASVTTN

>sp|Q8IVF7|FMNL3\_HUMAN Formin-like protein 3 OS=Homo sapiens GN=FMNL3 PE=1 SV=3

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EKKWDLICDQERFQVKNPPHTYIQKLQSFLDPSVTRKKFRRRVQESTKVLRELEISLRTN  
HIGWVREFLNENKGLDVLVDYLSFAQCSVMFDFEGLESGDDGAFDKLRSWSRSIEDLQP  
PSALSAPFTNSLARSARQSVLRYSTLPGRRALKNSRLVSQKDDVHVCILCLRAIMNYQYG  
FNLVMSHPHAVNEIALSLNNKNPRTKALVLELLAAVCLVRGGHEIILAAFDNFKEVCKEL  
HRFEKLMIFYRNEDSNIDFMVACMQFINIVVHVSVEDMNFVHLQYEFTKLGLEEFQKSR  
HTESEKLQVQIQAYLDNVFDVGGLEDAAETKNVALEKVEELEEHVSHLTEKLLDLENENM  
MRVAELEKQLLQREKELESIKETYENTSHQVHTLRLIKEKEEAFQRRCHLEPNVRGLES  
VDSEALARVGAELSEGMPPSDLLAPAPPPEEVLPLPPPPAPPLPPPPPLPDKCPA  
PPLPGAAPSVVLTVGLSAIRIKKPIKTKFRLPVFNWTALKPNQISGTVFSELDDEKILED  
LDLDKFEELFKTKAQGPALDLICSKNKTAQKAASKVTLLANRAKNLAITLRKAGRSAAE  
ICRAIHTFDLQTLPVDFVECLMRFLPTEAEVKLLRQYERERQPLEELAAEDRFMLLFSKV  
ERLTQRMAGMAFLGNFQDNLQMLTPQLNAIIAASASVKSSQKLKQMLEIILALGNMNSS  
KRGAVYGFKLQSLDLLDTKSTDRKMTLLHFIALTVKEKYPDLANFWHELHFVEKAAAVS  
LENVLLDVKELGRGMELIRRECSIHDNSVLRNFLSTNEGKLDKLQRDAKTAEAYNAVVR  
YFGESPKTTPPSVFFPVFVRFIRSYPEAEQENEARKKQEEVMREKQLAQEAKKLDKTPS  
QRNKWQQQELIAELRRRQAKEHRPVYEGKGTIEDIITVLKSVPTARTAKGRSRFFCDA  
AHHDESNC

>sp|Q01740|FM01\_HUMAN Dimethylaniline monooxygenase [N-oxide-forming] 1 OS=Homo sapiens  
GN=FM01 PE=2 SV=3

MAKRVAIVGAGVSGLASIKCCLEEGLEPTCFERSDDLGGWLRFTEHVEEGRASLYKSVVS  
NSCKEMSCYSDFPFEDYPNYPNSQFLEYLKMYANHFDLLKHIQFKTKVCSVTKCSDSA  
VSGQWEVVTMHEEKQESAIFDAVMVCTGFLTNPYLPLDSFPGINAFKGQYFHSRQYKHPD  
IFKDKRVLVIGMNSGTDIAVEASHLAEKVFLSTTGGGWVISRIFDSGYPWDMVFMTRFQ  
NMLRNSLPTPIVTWLMERKINNWLNHANYGLIPEDRTLKEFVLNDELPGRIITGKVFIR  
PSIKEVKENSVIFNNTSKEEPIDIIVFATGYTFAPFLDESVMKVEDGQASLYKYIFPAH  
LQKPTLAIIGLIKPLGSMIPTGETQARWAVRVLKGVNKLPPPSVMIEEINARKENKPSWF  
GLCYCKALQSDYITYIDELTYINAKPNLFSMLLTDPHLALTVFFGPCSPYQFRLTGPGK  
WEGARNAIMTQWDRTFKVIKARVVQESPPFESFLKVFSFLALLVAIFLIFL

>sp|P31512|FM04\_HUMAN Dimethylaniline monooxygenase [N-oxide-forming] 4 OS=Homo sapiens  
GN=FM04 PE=1 SV=3

MAKKVAVIGAGVSGLSSIKCCVDEDEPTCFERSDDIGGLWKFTESKDGMRVYKSLVT  
NVCKEMSCYSDFPFHEDYPNFMNHEKFWDYLQEFAEHFDLLKYIQFKTTVCSITKRPDFS  
ETGQWDVVTETEGKQNRVFDVAVMCTGHFLNPHLPLEAFPGIHKFKGQILHSQEYKIPE  
GFQGKRVLVIGLNTGGDIAVELSRTAAQVLLSTRGTWVLGRSSDWGYPYNNMVTTRCC  
SFIAQVLPSPFLNWIQERKLNKRFNHEDYGLSITKGKKAKFIVNDELPCILCGAITMKT  
SVIEFTETSASFEDGTVEENIDVVIPTTGYTFSFPFFEEPLKSLCTKKIFLYKQVFPLNL  
ERATLAIIGLIGLKGSLSGTELQARWVTRVFKGLCKIPPSQKLMEATEKEQLIKRGVF  
KDTSKDKFDYIAYMDIIACIGTKPSIPLFLKDPRLAWEVFFGPCTPYQYRLMGPCKWD  
GARNAILTQWDRTLKPLKTRIVPDSSKPSMSHYLKAWGAPVLLASLLICKSSLFLKLV

RDKLQDRMSPYLVSLWRG

>sp|Q8NOW7|FMR1N\_HUMAN Fragile X mental retardation 1 neighbor protein OS=Homo sapiens  
GN=FMR1NB PE=2 SV=1

MSSHRRKAKGRNRRSHRAMRVAHLELATYELAATESNPESHHPGYEAMADRPQPGWRES  
LKMRVSKPFGMLMLSIWILLFVCYYLSYYLCSGSSYFVLANGHILPNSENAHGQSLEEDS  
ALEALLNFFFPTTCNLRENQVAKPCNELQDLSESECLRHKCCFSSSGTTSFKCFAPFRDV  
PKQMMQMFGGLAISLILVCLPIYCRSLFWRSEPADDLQRQDNRVVTGLKKQRRKRKRKSE  
MLQKAARGREEHGDE

>sp|Q06787|FMR1\_HUMAN Synaptic functional regulator FMR1 OS=Homo sapiens GN=FMR1 PE=1  
SV=1

MEELVVEVRGSNGAFYKAFVKDVHEDSITVAFENNWPDRQIPFHDVRFPPVGYNKDIN  
ESDEVEVYSRANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRSVNPNKP  
ATKDTFHKIKLDVPEDLRQMCakeAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTSKR  
AHMLIDMHFRSLRTKLSLIMRNEEASKQLESSRQLASRFHEQFIVREDLMGLAIGTHGAN  
IQQARKVPGVTAIDLDEDTCTFHIIYGEDQDAVKARSFLEFAEDVIQVPRNLVGKVIKGN  
GKLIQEIVDKSGVVRVRIEAENEKNVPQEEEIMPPNSLPSNNSRVGPNAPEEKHLDIKE  
NSTHFSQPNSTKVRVLVASSVAGESQKPELKAWQGMVPFVFVGTKDSIANATVLLDYH  
LNYLKEVDQLRLRLQLIDEQLRQIGASSRPPPNRTDKEKSIVTDDGQGMGRGSRPYRNRG  
HGRRGPGYTSGTNSEASNASETESDHRDELSDWSLAPTEEEERESFLRRGDGRRRGGGGRG  
QGGGRGGGGFKGNDHSRTDNRPRNPREAKGRITDGLQIRVDCNNERSVHTKTLQNTSS  
EGSRLRTGKDRNQKKEKPDSDVGQQLVNGVP

>sp|Q8TBE3|FNDC9\_HUMAN Fibronectin type III domain-containing protein 9 OS=Homo sapiens  
GN=FNDC9 PE=2 SV=2

MNIEVGNI SYTGAIISWSSSEPCLEDYYHIMYRPNWNSIFSGYLRYSFHHEEKVPRTISS  
VVLEHLAPSTLYFLCISCKKAAPYRHYCTMFHTLTKSPLAPGSSSLVDPQISLWVMAIL  
LACFTAVLAFICLQFWCVRCHPRWSYRAGHMEEANGLVRWPEEAPDLGQREEDLQGLPL  
VEMPRKNSRDGAELDPEANQDAPDAGALQRGGGDPPAILPHCGE

>sp|Q8WW38|FOG2\_HUMAN Zinc finger protein ZFPM2 OS=Homo sapiens GN=ZFPM2 PE=1 SV=3

MSRRKQSKPRQIKRPLEDAIEDEEECPSEETDIISKGDFFLEESFSTEFGPENLSCEEV  
EYFCNKGDDDEGIQETAESDGDQSEKPGQPGVETDDWDGPGELEVFQKDGGERKIQSRQQ  
PVGTTWGPFGKMDLNNNSLTKAQVPMVLTAGPKWLLDVTWQGVEDNKNNCIVYSKGGQ  
LWCTTTKAI SEGEELIAFVVDFDSRLQAASQMTLTEGMYPARLLDSIQLLPQQAAMASIL  
PTAIVNKDIFPCKSCGIWYRSENLQAHLMYCGRQREAAPVSEENEDSAHQISSLCPF  
PQCTKSFSNARALEMHLNSHSGVKMEEFPPGASLKCTVCSYTADSVINFHQHLFSLHTQ  
AAFRCNHCHFGFQTQRELLQHQLHVP SGKLPRES DMEHSPSATEDSLQPATDLLTRSEL  
PQSQKAMQTKDASSDTELDKCEKKTQLFLTNRPEIQPTTNKQSF SYTKIKSEPSSPRLA  
SSPVQPNIGPSFPVGPFLSQSFSPQDITMVPQASEILAKMSELVHRRLRHGSSSYPPVIY  
SPLMPKGATCFECNITFNNLDNYLVHKKHYCSSRWQMAKSPEFSPVSEKMPEALSPNTG  
QTSINLLNPAHSADPENPLLQTS CINSSTVLDLIGPNGKGHDKDFSTQTKKLSTSSNND  
DKINGKPV DVKNPSVPLVDGESDPNKTTCEACNITFSRHETYMVHKQYYCATRHDPLKR  
SASNKVPAMQRTMRTRKRRKMYEMCLPEQEQRPLVQQRFLDVANLNNPCTSTQEPTGL  
GECYHPRCDIFPGIVSKHLETSLTINKCVPVSKCDTTHSSVSCLEMDVPIDLSKKCLSQS  
ERTTTSKRLLDYHECTVCKISFNKVENYL AHKQNF CPVTAHQ RNDLGQLDGKVFNPES  
ERNSPDVS YERSI IKCEKNGNLKQPSPNGNLFSSHLATLQGLKVFSEAAQLIATKEENRH

LFLPQCLYPGAIKKAKGADQLSPYYGIKPSDYISGSLVIHNTDIEQSRNAENESPKGQAS  
SNGCAALKKDSLPLLPKNRGMVIVNGGLKQDERPAANPQQENISQNPQHEDDHKSPSWIS  
ENPLAANENVSPGIPSAEEQLSSIAKGVNGSSQAPTSGKYCRLCDIQFNNLSNFITHKKF  
YCSSHAAEHVK

>sp|P55318|FOXA3\_HUMAN Hepatocyte nuclear factor 3-gamma OS=Homo sapiens GN=FOXA3 PE=1  
SV=2

MLGSVKMEAHDLAEWSYYPEAGEVYSPVTPVPTMAPLNSYMTLNPLSSPYPPGGLPASPL  
PSGPLAPPAPAAPLGPTFPGLGVSGSSSSGYGAPGGLVHGKEMPKGYRRPLAHAKPPY  
SYISLITMAIQAPGKMLTLEIYQWIMDLFPYYRENQQRWQNSIRHSLSFNDCFVKVAR  
SPDKPGKGSYWALHPSSGNMFENGCYLRRQKRFKLEEKVKKGGGAATTTRNGTGSAAST  
TTPAATVTSPPPPPAPEPEAQGGEDVGALDCGSPASSTPYFTGLELPGELKLDAPYNF  
NHPFSINNLMSEQTPAPPKLDVGFGGYGAEGGEPGVVYQGLYSRSLNAS

>sp|O00358|FOXEl\_HUMAN Forkhead box protein E1 OS=Homo sapiens GN=FOXEl PE=1 SV=3

MTAESGPPPPQPEVLATVKEERGETAAGAGVPGEATGRGAGGRRRRLQRGKPPYSYIA  
LIAMAI AHAPERRLTLGGIYKFITERFPFYRDNPKKWQNSIRHNLTLNDCF LKIPREAGR  
PGKGNYWALDPNAEDMFESGSFLRRRKRFRKRSDLSTYPAYMHDAAAAAAAAAAAAAAAAAI  
FPGAVPAARPPYPGAVYAGYAPPSLAAPPPVYPAASPGPCR VFGLVPERPLSPELG PAP  
SGPGGS CAFASAGAPATTTGYQPAGCTGARPANPSAYAAAYAGPDGAYPQGAGSAIFAAA  
GRLAGPASPPAGGSSGGVETTVDFYGR TSPGQFGALGACYNPGGQLGGASAGAYHARHAA  
AYPGGIDRFVSAM

>sp|Q12951|FOXl1\_HUMAN Forkhead box protein l1 OS=Homo sapiens GN=FOXl1 PE=1 SV=3

MSSFDLPAPSPPRCSQFPSIGQEPPEMNLYYENFFHPQGVPSQRP SFEGGGEYGATPN  
PYLWFNGPTMTPPPYLPGPNASFLPQAYGVQRLLPSVSGLGSDLGWLPIPSQEELMK  
LVRPPYSYSALIAMA IHGAPDKRLTLSQIYQYVADNFPFYNKS KAGWQNSIRHNL SLNDC  
FKKVPREDDEDPGKGNWTLDPNCEKMF DNGNFRKRKRKSDVSSSTASLAEKTESSLPV  
DSPKTTEPQDILDGASPGGTTSSPEKRPSPPPSGAPCLNSFLSMTAYVSGGSPTSHPLV  
TPGLSPEPSDKTGQNSLTFNSFSPLTNLSNHSGGDWANPMTNMLS YGGSVLSQFSPHF  
YNSVNTSGVLYPREGTEV

>sp|Q01167|FOXK2\_HUMAN Forkhead box protein K2 OS=Homo sapiens GN=FOXK2 PE=1 SV=3

MAAAAAALSGAGTPPAGGGAGGGGAGGGSPPGWAVARLEGREFEYLMKKRSVTIGRNS  
SQGSVDVSMGHSSFSIRRHLEIFTPPGGGGHGGAPELPPAQPRPDAGGDFYLRCLGKNG  
VFVDGVFQRRGAPPLQLPRVCTFRFPSTNIKITFTALSSEKREKQEASESPVKAVQPHIS  
PLTINIPDTMAHLISPLPSPTGTISAANSCPSSPRGAGSSGYKVGRVMPSDLNLMADNSQ  
PENEKEASGGDSPKDDSKPPYSYAQLIVQAITMAPDKQLTLNGIYTHITKNYPYYRTADK  
GWQNSIRHNL SLNRYFIKVPRSQE EPKG SFWRIDPASESKLIEQAFRRRPRGVPCFRT  
PLGPLSSRSAPASPNHAGVLSAHSSGAQTPELSREGSPAPLEPEPGAAQPKLAVIQEAR  
FAQSAPGSPLSSQPV LITVQRQLPQA IKPVYTYVATPVTTSTSQPPVVQTVHVHQP IAV  
SVTSVAGLAPANTYTVSGQAVVTPAAVLAPPKAE AQENG DHRVKVKVEPIPAIGHATLG  
TASRI IQTAQTTPVQTVTIVQQAPLGQHQLPIKTVTQNGTHVASVPTAVHGQVNNAASP  
LHMLATHASASASLPTKRHNGDQPEQPELKRIKTEDGEGIVIALSVDTPPAAVREKGVQN

>sp|P58012|FOXl2\_HUMAN Forkhead box protein L2 OS=Homo sapiens GN=FOXl2 PE=1 SV=1

MMASYPEPEDAAGALLAPETGR TVKEPEGPPSPGKGGGGGGTAPEKPDPAQKPPYSYV  
ALIAMAIRESAEKRLT LSGIYQYIIAKFPFYEKNKKGWQNSIRHNL SLNECFIKVPREGG  
GERKGNWTLDPACEDMFEKGN YRRRRRMKRPF RPPPAHFQPGKGLFGAGGAAGCGVAG

AGADGYGYLAPPKYLQSGFLNNSWPLQPPSPMPYASCQMAAAAAAAAAAAAAAGPGSPG  
AAAVVKLAGPAASYGPYTRVQSMALPPGVVNSYNGLGPPAAPPPPHPHPHAHHLH  
AAAAPPAPPHGAAAPPPGQLSPASPATAAPPAPAPTSAPGLQFACARQPELAMMHCSY  
WDHDSKTGALHSRLDL

>sp|000409|FOXN3\_HUMAN Forkhead box protein N3 OS=Homo sapiens GN=FOXN3 PE=1 SV=1  
MGPVMPPSKKPESSGISVSSGLSQCYGSGFSKALQEDDDLDLDFSLPDIRLEEGAMEDEEL  
TNLNWLHESKNLLKSFGESVLRVSPVQDLDDDDTPPSPAHSDMPYDARQNPCKPPYSFS  
CLIFMAIEDSPTKRLPVKDIYNWILEHFPYFANAPTGWKNSVRHNLSLNKCFKKVDKERS  
QSIGKGSWLCIDPEYRQNLIALKKTTPYHPHPHVNTPTTCPQAYQSTSGPPIWPGSTFF  
KRNALLQDPDIDAASAMMLLNTPEIQAGFPFGVIQNGARVLSRGLFPGVRPLPITPIG  
VTAAMRNGITSCMRTESEPSCGSPVVGDPKEDHNYSSAKSSNARSTSPTSISSSSS  
SADDHYEFATKGSQEGSEGSEGSFRSHESPSDTEEDDRKHSQKEPKDSLGD SGYASQHKK  
RQHFAKARKVPSDTLPLKKRRETEKPPESDDEEMKEAAGSLHLHLAGIRSLNNITNRTAKG  
QKEQKETTKN

>sp|Q6PIV2|FOXRI\_HUMAN Forkhead box protein R1 OS=Homo sapiens GN=FOXRI PE=1 SV=2  
MGNELFLAFTTSHLPLAEQKLARYKLRIVKPPKLPLEKKPNPDKDGPDYEPNLWMWVNP  
IVYPPGKLEVSGRRKREDLTSTLPSSQPPQKEEDASCSEAAGVESLSQSSSKRSPPRKRF  
AFSPSTWELTEEEEAEDQEDSSSMALPSPHKRAPLQSRRLRQASSQAGRLWSRPPLNYFH  
LIALALRNSSPCGLNVQIYSFTRKHFFFRTAPEGWKNTVRHNLCFRDSFEKVPVSMQG  
GASTRPRSCLWKLTEEGHRRFAEEARALASTRLESIQQCMSQPDVMPFLFDL

>sp|Q0VG06|FP100\_HUMAN Fanconi anemia core complex-associated protein 100 OS=Homo sapiens  
GN=FAAP100 PE=1 SV=3

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PDQVWHELLAPRLLYALCARRGLYCLSLDHPGRSRSTSQDDRSEDGDQPSVIPVDP  
DACILPDAALCAFTLLDSVLVTLVQGPARGWKMLFEQPCGEDPRPGGQIGLEVELSSYTP  
PAGVPGKAAPHFLPVLCVSPSGSRVPHDLLGGSGGFTLEDALFGLLFGADATLLQSPV  
VLCGLPDGQLCCVILKALVTSRSGPDNALVKILHHLEEPVIFIGALKTEPQAAEAAEN  
FLPDEDVHCDCLVAFGHHRMLAIKASWDESGKLVPELREYCLPGPVLCAACGGGGRVYH  
STPSDLCVVDLSRGSTPLGPEQPEEGPGLPPMLCPASLNICSVVSLASPRTHEGGTKL  
LALSAGRLMTCSLDLSEMPGPARMTTESAGQKIKELLSGIGNISERVSLKKAVDQRN  
KALTSLNEAMNVSCALLSSGTGRPI SCTTSTTWSRLQTQDVLMTCVLENSSSFSLDQG  
WTLCIQVLTSSCALDLSACSAITYTIPVDQLGPGARREVTLP LGPGENGLDLPVTVSC  
TLFYSLREVVGALAPSDSED PFLDECPSDVLPEQEGVCLPLSRHTVDM LQCLRFPG LAP  
PHTRAPSPLGPTRDPVATFLET CREPGSQPAGPASLRAEYLPPSVASIKVSAELLRAALK  
DGHSGVPLCCATLQWLLAENAAVDVVRARALSSIQGVAPDGANVHLIVREVAMTDLCPAG  
PIQAVEIQVESSSLADICRAHHAVVGRMQTMVTEQATQGSSAPDLRVQYLRQIHANHETL  
LREVQTLRDLCTEDEASSCATAQRLQVYRQLRHPSLILL

>sp|P25089|FPR3\_HUMAN N-formyl peptide receptor 3 OS=Homo sapiens GN=FPR3 PE=2 SV=2  
METNFSIPLNETEEVLEPAGHTVLWIFSLLVHGVTFVFGVLGNGLVIWVAGFRMTRTVN  
TICYLNALADFSFSAILPFRMVSAMREKWPFGSFLCKLVHVMIDINL FVSVYLITIIA  
LDRCICVLHPAWAQNHRTMSLAKRVMTGLWIFTIVLTLPNFIFWTTISTTNGDTYCFNF  
AFWGD TAVERLNVFITMAKVFLILHFIIGFSVPMSIITVCYGI IAAKIHRNHMIKSSRPL  
RVFAAVVASFFICWFYELIGILMAVWLKEMLLNGKYKIIILVLINPTSSLAFFNSCLNPI  
LYVFMGRNFQERLIRSLPTSLERALTEVPDSAQTSNTDTSASPPEETELQAM

>sp|Q2WGJ9|FR1L6\_HUMAN Fer-1-like protein 6 OS=Homo sapiens GN=FER1L6 PE=2 SV=2

MFGLKVKKKRNKAEGKLILANKAAKDSQGDTEALQEEPSHQEGPRGDLVHDDASIFPVPS  
ASPKRRSKLLTKIHGEVRSQNYQIAITITEARQLVGENIDPVVTIEIGDEKKQSTVKEG  
TNSPFYNEYFVDFDIGPQVHLFDKIIKISVFHHKLIGSVLIGSFKVDLGTVYNQPGHQFC  
NKWALLTDPGDIRTGTGYLKCDISVMGKGDVLKTSPKTSDTEEPIEKNLLIPNGFPLER  
PWARFYVRLYKAEGLPKMNSSIMANVTKAFVGDSKDLVDPFVEVSFAGQMGRTTVQKNCA  
DPVWHEQVIFKEMFPPLCRRVKIQVWDEGSMNDVALATHFIDLKKISNEQDGDGKGLPTF  
GPAWINLYGSPRNHSLMDDYQEMNEGFEGVSFRGRILVEIAVEILSGRAQESKFSKALK  
ELKLPSKDKDSKSSKGDKADKTEDGKSQQASNKTNSTEVEVESFDVPPEIVPEKNEEFL  
LFGAFFEATMIDRKIGDKPISFEVSIQNFGNLIDGGSHHGSKKSAESAEDLLPLLHEGQ  
GDVAHDVPIPMASHTHEKPLVTEGNRNYNLPFEAKKPCVYFISSWGDQTFRLHWSNML  
EKMADFLEESIEEVRELIIKISQEAPEEKMTVLSDFISRSSAFISEAEKKPKMLNQTTLD  
KKRLTLCWQELEAMCKEAKGIIQQQKKKLSVDEMIHEAQNFVEKIRFLVDEPQHTIPDVF  
IWMLSNNRRVAYARIASKDLLYSPVAGQMGKHCCKIKTHFLKPPGKRPAGWSVQAKVDVY  
LWLGSIKHASAILDNLPGYEAEMSSKGAGTNHPPSNLLYQEQHVFLRAHMYQARGLIA  
ADSNGLSDPFAKVTFLSHCQTTKIIISQTLSPTNQMLLFNDLVLHGDVKELAESPLVVV  
ELYDSDAVGKPEYLATVAAPVVKLADQDYEPRLCYHPIFCGNLSGGDLLAVFELLQVP  
PSGLQLGLPPVEPPDITQIYPVPANIRPVLKYRVEVLFWGVREMKKVQLLSVDRPQALIE  
CGGQGVKSCVIQSYKNNPNFSIQADAFEVELPENELLHPPLSICVVDWRAFGIRSTLVGT  
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>sp|Q92837|FRAT1\_HUMAN Proto-oncogene FRAT1 OS=Homo sapiens GN=FRAT1 PE=1 SV=3

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>sp|POC091|FREM3\_HUMAN FRAS1-related extracellular matrix protein 3 OS=Homo sapiens  
GN=FREM3 PE=3 SV=2

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>sp|Q5SYB0|FRPD1\_HUMAN FERM and PDZ domain-containing protein 1 OS=Homo sapiens GN=FRMPD1  
PE=1 SV=1

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>sp|Q14CM0|FRPD4\_HUMAN FERM and PDZ domain-containing protein 4 OS=Homo sapiens GN=FRMPD4  
PE=1 SV=1

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>sp|Q6ZNA5|FRRS1\_HUMAN Ferric-chelate reductase 1 OS=Homo sapiens GN=FRRS1 PE=2 SV=2  
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>sp|094915|FRYL\_HUMAN Protein furry homolog-like OS=Homo sapiens GN=FRYL PE=1 SV=2

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>sp|Q16658|FSCN1\_HUMAN Fascin OS=Homo sapiens GN=FSCN1 PE=1 SV=3

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>sp|095954|FTCD\_HUMAN Formimidoyltransferase-cyclodeaminase OS=Homo sapiens GN=FTCD PE=1  
SV=2

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>sp|P04066|FUCO\_HUMAN Tissue alpha-L-fucosidase OS=Homo sapiens GN=FUCA1 PE=1 SV=4

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>sp|Q8TBJ5|FEZF2\_HUMAN Fez family zinc finger protein 2 OS=Homo sapiens GN=FEZF2 PE=2  
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>sp|Q7Z6J4|FGD2\_HUMAN FYVE, RhoGEF and PH domain-containing protein 2 OS=Homo sapiens  
GN=FGD2 PE=1 SV=1

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>sp|O15520|FGF10\_HUMAN Fibroblast growth factor 10 OS=Homo sapiens GN=FGF10 PE=1 SV=1

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SSAGRHVRSYNHLQGDVWRKLFSTKYFLKIEKNKGVSCTKKENCYPYSILEITSVEIGV  
VAVKAINSYYLAMNKGKLYGSKFNNDCCLKERIEENGYNTYASFNWQHNGRQMYVAL  
NGKGAPRRGQKTRRKNTSAHFLPMVVHS

>sp|O60258|FGF17\_HUMAN Fibroblast growth factor 17 OS=Homo sapiens GN=FGF17 PE=1 SV=1

MGAARLLPNLTLCLQLLILCCQTQGENHSPNPNFYVRDQGAMTDQLSRRQIREYQLYSR  
TSGKHVQVTGRRISATAEDGNKFAKLIVETDTFGSRVRIKGAESEKYICMNRGKLIGKP  
SGKSKDCVFTEIVLENNYAFQNAHEGWMAFTRQGRPRQASRSRQNRQEAHFIRLYQ  
GQLPFPNHAEKQKQFEFVGSAPTRRTKRTRRPQPLT

>sp|P10767|FGF6\_HUMAN Fibroblast growth factor 6 OS=Homo sapiens GN=FGF6 PE=1 SV=4

MALGQKLFITMSRGAGRLQGTWLVFLGILVGMVVPSPAGTRANNTLLDSRGWGTLLSR  
SRAGLAGEIAGVNWESGYLVGIKRQRLYCNVGIGFHLQVLPDGRISGTHEENPYSLEI  
STVERGVVSLFGVRSALFVAMNSKGRLYATPSFQEECKFRETLLPNNYNAYESDLYQGT  
IALSKYGRVKGSKVSPIMTVTHFLPRI

>sp|P21781|FGF7\_HUMAN Fibroblast growth factor 7 OS=Homo sapiens GN=FGF7 PE=1 SV=1

MHKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNVNCSSPERHTRSVDYME

GGDIRVRRLFCRTQWYLRIDKRGKVKGTQEMKNNYNIMEIRTVAVGIVAIGVSESEFYLA  
MNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHNGGEMFVALNQKGIPVRGKGTK  
KEQKTAHFLPMAIT

>sp|Q8TAT2|FGFP3\_HUMAN Fibroblast growth factor-binding protein 3 OS=Homo sapiens  
GN=FGFBP3 PE=1 SV=1

MTPPKLRLASLSPSLLLLSGCLLAAARREKGAASNVAEPVPGPTGGSSGRFLSPEQHACS  
WQLLLPAPEAAAGSELALRCQSPDGAHQCAVRGHPERCAAYAARRAHFWKQVLGGLRKK  
RRPCHDPAPLQARLCAGKKGHGAELRLVPRASPPARPTVAGFAGESKPRARNRGRTRERA  
SGPAAGTPPPQSAPPKENPSEKRTNEGKRKAALVPNEERPMGTGPDGDLGNAELTETY  
CAEKWHSCLCNFFVNFVWG

>sp|P11362|FGFR1\_HUMAN Fibroblast growth factor receptor 1 OS=Homo sapiens GN=FGFR1 PE=1  
SV=3

MWSWKCLLFWAVLVATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDD  
VQSINWLRDGVQLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSD  
ALPSEDDDDDDSSSEKETDNTKPNRMPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPS  
SGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVPDKNYTCIVENEYGSIN  
HTYQLDVVERSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI  
GPDNLVYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVLE  
ALEERPAVMTSPLYLEIIICYTGAFILSCMVGSVIVYKMKSGTKKSDFHSMQMAVHKLAKS  
IPLRRQVTVSADSSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVL  
GKPLGEGCFGQVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSLISEMEMMKMIGK  
HKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSKDL  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFGLARDIHHIDYKKTNG  
RLPVKWMPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGPVVEELFKLLKEGHRMD  
KPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLSMPLDQYSPSF  
PDTRSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR

>sp|Q13643|FHL3\_HUMAN Four and a half LIM domains protein 3 OS=Homo sapiens GN=FHL3 PE=1  
SV=4

MSESFDCAKCNESLYGRKYIQTDSGPYCVPCYDNTFANTCAECQQLIGHDSRELFYEDRH  
FHEGCFRCCRCQRLADEPFTCQDSELLCNDYCSAFSSQCSACGETVMPGSRKLEYGGQ  
TWHEHCFLCSGCEQLGSRSFVPDKGAHYCVPCYENKFAPRCARCSKTLTQGGVTYRDQP  
WHRECLVCTGCQTPLAGQQFTSRDEDPYCVACFGEFAPKCSSCKRPVGLGGGKYVSFE  
DRHWHHNCFCARCSTSLVGQGFVPDGDQVLCQGCSQAGP

>sp|P36980|FHR2\_HUMAN Complement factor H-related protein 2 OS=Homo sapiens GN=CFHR2 PE=1  
SV=1

MWLLVSILISRISSVGGEAMFCDFPKINHILYDEEKYPFSQVPTGEVFYYSCEYNFV  
SPSKSFWTRITCAEEGWSPTPKCLRLCFFPFVENGHSESSGQTHLEGDTVQIICNTGYRL  
QNNENNISCVERGWSTPPKCRSTISAEKCGPPPIDNGDITSFLLSVYAPGSSVEYQCQN  
LYQLEGNQITCRNGQWSEPPKCLDPCVISQEIMEKYNIKWKTNQQKLYSRTGDIVEFV  
CKSGYHPTKSHSFRAMCQNGKLVYPSCEEK

>sp|Q92496|FHR4\_HUMAN Complement factor H-related protein 4 OS=Homo sapiens GN=CFHR4 PE=1  
SV=3

MLLLINVILTLWVSCANGQEVKPCDFPEIQHGGLYYKSLRRLYFPAAAGQSYSYCDQNF  
VTPSGSYWDYIHCTQDGWSPTVPLRRTCSDVEIENGFISSSSIIYILNEETQYNCKPG

YATAEGNSSGSITCLQNGWSTQPICIKFCMPVFENSRAKSNGMWFKLHDTLDYECYDGY  
ESSYGNNTDSIVCGEDGWSHLPTCYNSSENCPPPPISNGDTSFPQKVYLPWSRVEYQC  
QSYELQGSKYVTCNNGDWSEPPRCISMKPCEFPEIQHGHLYYENTRRPYFPVATGQSYS  
YYCDQNFVTPSGSYWDYIHCTQDQWLPTVPCLRTCSKSDIEIENGFISSSIYILNKEI  
QYKCKPGYATADGNSSGSITCLQNGWSAQPICIKFCMPVFENSRAKSNGMRFKLHDTLD  
YECYDGYEISYGNNTGSIVCGEDGWSHFPTCYNSSSEKCGPPPPISNGDTSFLLKVYVPQ  
SRVEYQCQSYELQGSNYVTCNNGEWSEPPRCIHPCIITEENMNKNNIQLKGKSDIKYYA  
KTGDTIEFMCKLGYNANTSVLSFQAVCREGIVEYPRCE

>sp|Q92562|FIG4\_HUMAN Polyphosphoinositide phosphatase OS=Homo sapiens GN=FIG4 PE=1 SV=1

MPTAAAPIISSVQKLVLVYETRARYFLVGSNNAETKYRVLKIDRTEPKDLVIIDDRHVYTQ  
QEVRELLGRLDLGNRTKMKGQKSSGLFRAVSAGVVGFFVRFLEGGYIVLITKRRKMADIG  
GHAIYKVEDTNMIYIPNDSVRVTHPDEARYLRIFQNVDLSSNFYFSYSYDLSHSLQYNLT  
VLRMPLEMLKSEMTQNRQESFDIFEDEGLITQGGSGVFGICSEPYMKYVWNGELLDIIS  
TVHRDWLLYIIHGFCGQSKLLIYGRPVYVTLIARRSSKFAGTRFLKRGANCEGDVANEVE  
TEQILCDASVMSFTAGSYSSYVQVRGSVPLYWSQDISTMMPKPPITLDQADPFAHVAALH  
FDQMFQRFQSPIIILNLVKEREKRKHERILSEELVAAVTYLNQFLPPEHTIVYIPWDMAK  
YTKSKLCNVLDRLNVAESVVKKTGFVNRPDYSYCSILRPDEKWNELGGCVIPTGRLQTG  
ILRTNCVDCLDRTNTAQFMVGKCALAYQLYSLGLIDKPNLQFDTDAVRLFEELYEDHGDT  
LSLQYGGSQLVHRVKTYRKIAPWTQHSKDIMQTLSTRYYSNAFSDADRQDSINLFLGVFHP  
TEGKPHLWELPTDFYLHHKNTMRLLPTRRSYTYWWTPEVIKHLPLPYDEVICAVNLKKLI  
VKKFHKYEEEIDIHNEFFRPYELSSFDFTCLAMTSSARDFMPKTVGIDPSPFTVRKPDE  
TGKSVLGNKSNREEAVLQRKTAASAPPPPEEAVSSSSEDDSGTDREEEGSVSQRSTPVK  
MTDAGDSAKVTENVVQPMKELYGINLSDGLSEEDFSIYSRFVQLGQSQHKQDKNSQQPCS  
RCSDGVIKLTPISAFSQDNIYEVQPPRVDRKSTEIFQAHIQASQGIMQLPKEDSSMYRE  
YIRNRYL

>sp|Q6QHK4|FIGLA\_HUMAN Factor in the germline alpha OS=Homo sapiens GN=FIGLA PE=1 SV=2

MDPAPGVLDPRAAPPALLGTPQAEVLEDVLEQFGPLPQLAAVCRLKRLPSGGYSSTENL  
QLVLERRRRVANAKERERIKNLNRGFARLKALVPFLPQSRKPSKVDILKGATEYIQVLSDL  
LEGAKDSKKQDPDEQSYSNNSSSESHTSSARQLSRNITQHISCAFGKNEEEGPWADGGSG  
EPAHACRHSVMSTTEIISPTRSLDRFPEVELLSHRLPQV

>sp|Q6UN15|FIP1\_HUMAN Pre-mRNA 3'-end-processing factor FIP1 OS=Homo sapiens GN=FIP1L1  
PE=1 SV=1

MSAGEVERLVSELGGTGGDEEEEWLYGGPWDVHVHSDLAKDLDENEVERPEEENASANP  
PSGIEDETAENGVPKPKVTETEDSDSDSDDDDEDDVHVTIGDIKTGAPQYGSYGTAPVNL  
NIKTGGRVYGTGTGKVGVDLDAPGSINGVPLLEVLDLSFEDKPWRKPGADLSDYFNFGF  
NEDTWKAYCEKQKRIRMGLEVIPVTSTTNKITAEDCTMEVTPGAEIQDGRFNLFKVQQGR  
TGNSEKETALPSTKAEFTSPPSLFTGLPPSRNSTSSQSQTSTASRKANS SVGWQDRYG  
RAESPDLRRLPGAIDVIGQTITISRVEGRRRANENSNIQVLSERSATEVDNNSKPPPPF  
PPGAPPTHLPFPPLPPPTVSTAPPLIPPPGFPPPGAPPSLIPTIESGHSSGYDSRS  
ARAFPYGNVAFPHLPGSAPSWPSLVDTSKQWDYARREKDRDRERDRDRERDRDRERE  
RTRERERERDHSPTPSVFNSDEERYRYREYAERGYERHRASREKEERHRERRHREKEETR  
HKSSRSNSRRRHESEEGDSHRRHKHKSKRSKEGKEAGSEPAPEQESTEATPAE

>sp|Q9Y3D6|FIS1\_HUMAN Mitochondrial fission 1 protein OS=Homo sapiens GN=FIS1 PE=1 SV=2

MEAVLNELVSVEDLLKFEKKFQSEKAAGSVSKSTQFEYAWCLVRSKYND DIRKGIVLLEE

LLPKGSKEEQRDYVFYLAVGNRYLKEYEKALKYVRGLLQTEPQNNQAKELERLIDKAMKK  
DGLVGMAIVGGMALGVAGLAGLIGLAVSKSKS

>sp|A5D6W6|FITM1\_HUMAN Fat storage-inducing transmembrane protein 1 OS=Homo sapiens  
GN=FITM1 PE=2 SV=1

MERGPVVGAGLGAGARIQALLGCLLKVLLWVASALLYFGSEQAARLLGSPCLRRLYHAWL  
AAVVFGLLQFHVNPRTIFASHGNFFNIKFVNSAWGWTCTFLGGFVLLVVFLATRRVAV  
TARHLSRLVVGAAVWRGAGRAFLIEDLTGSCFEPLPQGILLHELPPDRRSCLAAGHQWRG  
YTVSSHTFLLTFCCLLMAEEAAVFAKYLAHGLPAGAPLRLVFLNVLGLWNFLLCTV  
IYFHQYTHKVVGAAVGTFAWYLTGSGWYHPWSPGSPGHGLFPRPHSSRKHN

>sp|Q13045|FLII\_HUMAN Protein flightless-1 homolog OS=Homo sapiens GN=FLII PE=1 SV=2

MEATGVLPFVRGVDLSGNDFKGGYFPENVKAMTSLRWLKLNRGLCYLPEELAALQKLEH  
LSVSHNNLTTLHGELSSLSLRAIVARANSKNSGVPDDIFKLDDLVLNQLSHNQLTECP  
RELENAKNMLVLNLSHNSIDTIPNQLFINLTDLLYLDLSENRLSLPPQMRRLVHLQTLV  
LNGNPLLHAQLRQLPAMTALQTLHLRSTQRTQSNLPTSLEGLSNLADVDLSCNDLTRVPE  
CLYTLPSLRRLNLSSNQITELSLCIDQWVHVETLNLNRNQLTSLPSAICKLSKLLKLYLN  
SNKLDLFDGLPSGIGKLTNLEEFMAANNLELVPESLCRCPKLRKLVNKNHLVTLPEAIIH  
FLTEIEVLVDVRENPNLVMPKPADRAAEWYNIDFSLQNQLRLAGASPATVAAAAAAGSGP  
KDPMARKMRLRRRKDSAQDDQAKQVLKGMSDVAQEKNNKQEEADARAPSGKVRWDQGL  
EKPRLDYSEFFTEDVGQLPGLTIWQIENFVPLVEEAFHGKFYEADCYIVLKTFLDDSGS  
LNWEIYYWIGGEATLDKKACSAIHAVNLRNYLGAECRTVREEMGESEEFQVFDNDISY  
IEGGTASGFYTVEDTHYVTRMYVYGKKNIKLEPVPLKGTSLDPRFVFLDRGLDIYVWR  
GAQATLSSTTKARLFAEKINKNERKGKAEITLLVQGQELPEFWEALGGEPSEIKKHVPED  
FWPPQPKLYKVGGLGYLELPQINYLKLSVEHKQRPKVELMPMRLLQSLLDTRCVYILDC  
WSDVFIWLGRKSPRLVRAAALKLQELCGMLHRPRHATVSRSLLEGTEAQVFKAFFKNWDD  
VLTVDYTRNAEAVLQSPGLSGVKRDAEKKDQMKADLTALFLPRQPPMSLAEEQLMEEW  
NEDLDGMEGFVLEGGKFARLPEEEFGHFYTQDCYVFLCRYVWPVEYEEEEKKEDKEEKAE  
GKEGEEATAEAEEKQPEEDFQCIVYFWQGREASNMGWLTFSLQKKFESLFPGLLEVVR  
MTQQQENPKFLSHFKRKFI IHRGKRKAVQGAQQPSLYQIRTNGSALCTRCTQINTDSSLL  
NSEFCFILKVPFESEDNQIVYAWVGRASDPDEAKLAEDILNTMFDTSYSKQVINEGEEP  
ENFFWVGIGAQKPYDDDAEYMKHTRLFRCSNEKGYFAVTEKCSDFCQDDLADDDIMLLDN  
GQEVYMWVGTQTSQVEIKLSLKACQVYIQHMRSKEHERPRRLRLVRKGNEQHAFTRCFHA  
WSAFCKALA

>sp|Q8N3X1|FNBP4\_HUMAN Formin-binding protein 4 OS=Homo sapiens GN=FNBP4 PE=1 SV=3

MGKKSRAVPGRRPILQLSPPGPRGSTPGRDPEPEPDTEPDSTAAPVSPAPSAATTTTA  
VTAASDSDSPSEDEQEAVQEVPRVQNPPKPVMTTRPTAVKATGGLCLLGAYADSDDDD  
NDVSEKLAQSKETNGNQSTDIDSTLANFLAEIDAITAPQPAAPVGASAPPPTPPRPEPKE  
AATSTLSSSTNGTDSTQTSQWQYDTQCSLAGVGIEGMDWQEVWDENTGCYYYWNTQTNE  
VTWELPQYLATQVQGLQHYQPSSVPGAETSFVVNTDIYSKEKTISVSSSKSGPVIAKREV  
KKEVNEGIALNSSEEEKKGVAASLLAPLLPEGIKEEEERWRRKVICKEEVPSEVKETST  
TVEEATTIVKPQEIIMLDNIEDPSQEDLCSVVQSGESEEEEEQDTLELELVLERKKAELRA  
LEEGDGSVSGSSPRSDISQPASQDGMRLMSKRGKWKMFVRATSPESTSRSSSKTGRDTP  
ENGETAIGAENSEKIDENSDKEMEVEESPEKIKVQTTPKVEEQDLKFQIGELANTLTSK  
FEFLGINRQISINFHVLLLQTETRIADWREGALNGNYLKRKLQDAAEQLKQYEINATPKG  
WSCHWDRDHRRYFYVNEQSGESQWEFPDGESEEEEEESQAQENRDETLAKQTLKDKTGTDN

STESSETSTGSLCKESFSGQVSSSSLMPLTPFWTLLQSNVPVLQPPLPLEMPPPPPPPPE  
SPPPPPPPPPAEDGEIQEVEMEDEGSEEPAPGTEEDTPLKPSAQTTVVTSQSSVDSTI  
SSSSSTKGIKRKATEISTAVVQRSATIGSSPVLYSQSAIATGHQAAGIGNQATGIGHQTI  
PVSLPAAGMGHQARGMSLQSNYLGAAAPAIMSYAECSPVIGVTAPSLQPVQARGAVPTA  
TIIIEPPPPPPPPPPPPAPKMPPEKTKKGRKDKAKKSKTKMPSLVKKWQSIQRELDEE  
DNSSSSEEDRESTAQKRIE EWKQQQLVSGMAERNANFEALPEDWRARLKRRKMAPNT

>sp|Q53EP0|FND3B\_HUMAN Fibronectin type III domain-containing protein 3B OS=Homo sapiens  
GN=FND3B PE=1 SV=2

MYVTMMMDQIPLLEPPLLNGEVAMMPLVNGDAAQQVILVQVNPGETFTIRAEDGTLQC  
IQGPAEVPMMSPNGSIPPIHVPPGYISQVIEDSTGVRRVVVTPQSPECYPPSYPSAMSPT  
HHLPPYLTHHPFIHNSHTAYYPPVTGPGDMPPQFFPQHHLPHTIYGEQEIIIPFYGMSTY  
ITREDQYSKPPHKKLKDRQIDRQNRNLNSPPSSYKSSCTTVYNGYKGHSGSGGGSGSGS  
GPGIKKTERRARSSPKSNDSDLQEYELEVKRVDILSGIEKPQVSNIQARAVVLSWAPPV  
GLSCGPHSGLSFPYSYEVALSDKGRDGKYKIIYSGEELCNLKDLPATDYHVRVYAMYN  
SVKGSCSEPVSFTHSCAPECPFPKLAHRSSSLTLQWKAPIDNGSKITNYLLEWDEGK  
RNSGFRQCFFGSQKHCKLTKLCPAMGYTFRLAARNDIGTSGYSQEVVCYTLGNIPQMPSA  
PRLVRAGITWVTLQWSKPEGCSPEEVITYTLEIQEDENDNLFHPKYTGEDLTCTVKNLKR  
STQYKFRLTASNTEGKSCPSEVLVCTTSPDRPGPTRPLVKGPVTSHGFSVKWDPPKDNG  
GSEILKYLLEITDGNSEANQWEVAYSGSATEYTFTHLKPGTLYKLACCISTGGHSQCSE  
SLPVRTL SIAPGQCRPRVLGRPKHKEVHLEWDVPASESGCEVSEYSVEMTEPEDVASEV  
YHGPELECTVGNLLPGTVYRFRVRALNDGGYGPYSDVSEITTAAGPPGQCKAPCISCTPD  
GCVLVGWESPSSGADISEYRLEWGEDEESLELIYHGTDRFEIRDLLPAAQYCCRLQAF  
NQAGAGPYSELVLCQTPASAPDPVSTLCVLEEEPLDAYPDSPSACLVLNWEPCNNGSEI  
LAYTIDLGDSITVGNNTMHVMKDLLPETTYRIRIQAINIAGAGPFSQFIKAKTRPLPPL  
PPRLECAAAGPQSLKLKWDGNSKTHAAEDIVYTLQLEDNRKRFISIYRGPSHTYKVQRL  
TEFTCYSFRIQAASEAGEGPFSEYTFSTTKSVPPTIKAPRVTQLEGN SCEILWETVPSM  
KGD PVNYILQVLVGRESEYKQVYKGEEATFQISGLQTNTDYRFRVCACRRCLDTSQELSG  
AFSPSAFVLRSEVMLTGDMSGLDDPKMKSMPTDEQFAATIVLGFATLSILFAFILQY  
FLMK

>sp|Q8TC99|FND3B\_HUMAN Fibronectin type III domain-containing protein 3B OS=Homo sapiens  
GN=FND3B PE=1 SV=2

MASEALHQVGDGEEAVLKKNFNMNALDQLPKPFSNPKSMNRTVTTKGLPLASKGNLVN  
FLEDDTINLLKPLPVEDSDCSSDETSISAFSSTLLNPIKLAVTQPNSSFFAGMLEGELNK  
LSFSPMAKNAENEDLALGPCPCPSKSMATRGLLDLDNPELETETSSTHSESSVVVDLPD  
TPFIFEHTVNNSTAVISWTYALGKQPVSYFYQLLLQEVAKTQENELPEAKNRPWIFNKILG  
TTVKLMELKPNTCYCLSVRAANTAGVGKWKPYKFATLATDFSSFPENYPIQITVRRKEP  
RQKIVSIGPEEMRRLEDLEYLFC

>sp|Q8TF40|FNIP1\_HUMAN Folliculin-interacting protein 1 OS=Homo sapiens GN=FNIP1 PE=1  
SV=3

MAPTLFQKLFSKRTGLGAPGRDARDPCGFSWPLPEFDPSQIRLIVYQDCERRGRNVLFD  
SSVKRRNEDISVSKLGSDAQVKVFGKCCQLKPGDSSSSLDSSVTSSSDIKDQCLKYQGS  
RCSSDANMLGEMMFGSVAMSYKGSTLKIHQIRSPQLMLSKVFTARTGSSICGSLNTLQD  
SLEFINQDNNTLKADNNTVINGLLGNIGLSQFCSPRRAFSEQGPLRLIRSASFVAHSNP  
MDMPGRELNEDRDSGIARSASLSSLLITPFPSPNSSLTRSCASSYQRRWRRSQTTSLENG

VFPRWSIEESFNLSDESCGPNPGIVRKKKIAIGVIFSLSKDEENNKFNEFFFSHFPLFE  
SHMNKLKSAIEQAMKMSRRSADASQRSLAYNRIVDALNEFRTTICNLYTMPRIGEPVWLT  
MMSGTPEKNHLCYRFMKEFTFLMENASKNQFLPALITAVLTNHLAWPTVMPNGQPPIKI  
FLEKHSSQSVDMLAKTHPINPLWAQLGDLYGAIGSPVRLARTVVVGKRQDMVQRLLYFLT  
YFIRCSELQETHLLENGEDEAIVMPGTVITTTLEKGEIEESEYVLVTMHRNKSSLLFKES  
EEIRTPNCNCKYCSHPLLGNVENISQQUEREDIQNSSKELLGISDECQMISPSDCQEENA  
VDVKQYRDKLRTCFDAKLETVVCTGSVPVDKCALSESGLESTEETWQSEKLLDSDSHTGK  
AMRSTGMVVEKKPPDKIVPASFSCEAAQTKVTFLIGDSMSPDSDELRSQAVVDQITRHH  
TKPLKEERGAIHQHETKQTTKQSGESDTQNMVSEEPCELPWNHSDPESMSLFDEYFN  
DDSIETRTIDVFPKSTSDSKDHCCMLEFSKILCTKNNKQNEFCCKIETVPQDSCKTCF  
PQQDQRDTLSILVPHGDKESSDKKIAVGTEWDIPRNESSDSALGDSESEDTHDMTRQVS  
SYYGGEQEDWAEDEIPFPGSKLIEVSAVQPNIANFGRSLLGGYCSSYPDFVLQGIGSD  
ERFRQCLMSDLHAVQHPVLDEPIAEAVCIADMDKWTQVASSQRRVTDNKLKKEVLVS  
SLVSNLLHSTLQLYKHNLSPNFCVMHLEDRLQELYFKSKMLSEYLRGQMRVHVHVKELGVVL  
GIESSDLPLLAAVASTHSPYVAQILL

>sp|P49354|FNTA\_HUMAN Protein farnesyltransferase/geranylgeranyltransferase type-1  
subunit alpha OS=Homo sapiens GN=FNTA PE=1 SV=1

MAATEGVGEEAAGGEGPQPAQPPPPQHPPPPPQQHKEEMAAEAGEAVASPMDDGFVSLDS  
PSYVLYRDRAEWADIDPVPQNDGPNPVVQIIYSDFRVDYDYFRAVLQRDERSERAFKLT  
RDAIELNAANYTVWHFRVRLKSLQKDLHEEMNYITAIIEEQPKNYQVWHHRRVLVEWLR  
DPSQELEFIADILNQDAKNYHAWQHRQWVIQEFKLWDNELQYVDQLLKEDVRNNSVWNQR  
YFVISNTTGYNDRAVLEREVQYTEMIKLVPHNESAWNYLKGILQDRGLSKYPNLLNQLL  
DLQPSHSSPYLIAFLVDIYEDMLENQCDNKEDILNKALELCEILAKEKDTIRKEYWRYIG  
RSLQSKHSTENDSPTNVQQ

>sp|Q5VW36|FOCAD\_HUMAN Focadhesin OS=Homo sapiens GN=FOCAD PE=1 SV=1

MSDDIRKRFEFPNSLIQSQAUGHIAAVLKENGFSKIHQSTNQTALNLLWEKCCSDNV  
VVRTACCEGLVALVAQDHAESYVLNGILNLIPSTRNTHGLIKAIMHLLQMQUALKEGQGG  
EKNIQSIYITIRNHPPLITVLEHRPDCWPVFLQQLTAFQQCPELLEVSCIQIMAPFLWY  
LYCEPSQLQEYAKRLALLKVLLQPQVLCDDKQPSILEQQILQLCCDIVPCLQVKDLIQT  
TEAMMFIEEVCLSLRHPVFWKIQLTQMSLQLLCVSEVSLKITGECSSSIHLEHSVELL  
KEDFPVELVIIGIALLLQTPASQKPIILNLALKLLSVTEDQKIPKSLLLVMPIQLS  
STAECDISVDEEGPSRQALNLLEMIQQECYRDDHQKLSYKLVCPTSMYGTIFTAWR  
ILEVMTDSSAASDWLASVESLLPITAVIPAPAFLLLAHLLVEDKGQNLHQILKVTTELAQ  
ADSSQVPNLIPVLMFKLGRPLEPILYNDILYTLPKLGVHVCIGILRIIQLLGTTPRLR  
AVTLRLLTSLWEKQDRVPELQRFMAVSDVPSLSVGKEVQWEKLIKAASIRDICKQRPY  
QHGADMLAAISQVLNCTKPDQATPAALVLQGLHALCQAEVVCIRSTWNALSPKLSCDTR  
PLILKTLSELFSVPSLTVNTTEYENFKVQVLSFLWHTQNKDPIVANAAYRSLANFTAG  
EHTILHLEKIRPEIPIPEELDDDEDVEDVLSVPGSCYLKLLSLTPPLVLPALIEFFTS  
LVKQEMVNMPRGIYHSALKGGARSDQGKTIVAGIPNFILKMYETNKQPKLPGLAGGMLFC  
YDVSMYQSKDGKPLNRLMASRGRSFKQTSALVHEVHIQLSEWHRAIFLPQAWLAYMNRA  
YHAILQGRLGELELQLKHGKEEPEEVQYKKSTAWLWVRDMLTDEITKAAAKESPVVKGNA  
LLALSSLAVVVSREASLSSDSGLLEVQPNFLSMKEWVMVLDTLLVIDSHYQPRGQL  
LSWFYYSYSGENTASAIARSAATALLVPVFIISCKEKVEEILNMLTARLPKPSAD  
ESQAVQIHMGLALGMFLSRLCEEKLSDISGQEMNLLMKSLDALENCFFDTSLEYNTGCI



LGVGLVLSLMSSHSSQMQRVHVAALLRKLSAHVDDSGSQSRTFQEVLAYTLSCVCTSAFS  
AGIIATEAEEDVMNKLRLLENSQQTSGFALALGNIVHGLSVCGHGKAEDLGSKLLPAWI  
RIVLTEGTPTMLCLAALHGMVALVGSEGDVMQLKSEAIQTSHFQGRLENEVIRTLTQVISV  
SGVIGLQSNVWLLGHLHLSTLSSSQSRASVPTDYSYLPESSEFIGAAIGFFITGGKKGP  
SVPPSLLKVVMPKIATVGESYQYPPVNWAALLSPLMRLNFGEEIQQLCLEIMVTQAQSSQ  
NAAALLGLWVTPPLIHSLSLNTKRYLLISAPLWIKHISDEQILGFVENLMVAVFKAASPL  
GPELCPALHGLSQAMKLPSPAHHLWSLLSEATGKIFDLLPNKIRKDELYISIAKCL  
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LHSLYQARIVSHANTGVLKRMWLELMGYIRNVAYQSTSFHNTALDKALDFLLIFATA  
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W

>sp|A8MTJ6|FOXI3\_HUMAN Forkhead box protein I3 OS=Homo sapiens GN=FOXI3 PE=2 SV=3

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AAPAGPGELGWLMSASREDLMKMVRPPYSYSALIAMAIQSAPERKLTLSHIYQFVADSFP  
FYQRSKAGWQNSIRHNLNLNDCFKKVPREDDEDPGKGNWTLDPNCEKMFNNGNFRKRKR  
RSEASNGSTVAAGTSKSEGLSSGLSGVGGKPEEESPSTLLRPSHSPEPPEGTKSTASS  
PGGPMLTSTPCLNTFFSSLSLVSSSVSTQRALPGSRHLGIQGAQLPSSGVFSPTSISE  
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>sp|Q9P0K8|FOXJ2\_HUMAN Forkhead box protein J2 OS=Homo sapiens GN=FOXJ2 PE=1 SV=1

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NKCVRKVPVRDDPGKGSYWTIDTCPDISRKRHRPPDDDLSDSPEQEASKSPRGVAGS  
GEASLPPEGNPQMSLQSPTSIAYSQGTGSVDGGAAGASGRESAEGPPPLYNTNHDFK  
FSYSEINFQDLWSFRNLYKSMLEKSSSSQHGFSLLGDIPPSNNYMYQQQQPPPPQQ  
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PVMAMHPPLQHGGYHPHQQHHPHSHPAQQPPPPQPAQQAQAPINNTGFAPSDWCSNIDS  
LKESFKMVNRLNWSSIEQSQFSELMESLRQAEQKNWTLQHHIANLCDLNLHFLTQTGHV  
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>sp|O15353|FOXN1\_HUMAN Forkhead box protein N1 OS=Homo sapiens GN=FOXN1 PE=2 SV=1

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APFHPYKRPFHEDVFPEAETTLALKGHSFKTPGLEAFEEIPVDVAEAEFLPGFSAEAW  
CNGLPYPSQEHPQVLGSEVKVKPPVLESGAGMFCYQPPLQHMYCSSQPPFHQYSPGGGS  
YPIPYLGSSSHYQYQMAPQASTDGHQPLFKPIYSYSILIFMALKNSKTGSLPVSEIYNF  
MTEHFPYFTAPDGWKNVSRHNLNLNCKFEKVENKSGSSSRKGCLWALNPAKIDKMQEEL  
QKWKRKDPIAVRKSMAKPEELDSLIGDKREKLGSPLLGCPPPGLSGSGPIRPLAPPAGLS  
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LRAQPGTPQDSPLPAHTPPSHSAKLLAEPSPARTMHTLTPDGLGTDLDAINPSLTDFD  
FQGNLWEQLKDDSLALDPLVLVTSSPTSSSMPPPQPPPHCFPPGPCLTETGSGAGDLAAP  
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>sp|Q9P2B2|FPRP\_HUMAN Prostaglandin F2 receptor negative regulator OS=Homo sapiens  
GN=PTGFRN PE=1 SV=2

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DQGSYRCIVSEWIAEQGNWQEIQEKAVEVATVVIQPSVLAAPKNSVAEGKELDLTCN  
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QRAQDGFIFSKEHTDTFNFRIQRTTEEDRGNYCVVSAWTKQRNNSWVSKDVFSSKPVN  
IFWALEDSVLVVKARQPKPFFAAGNTFEMTCKVSSKNIKSPRYSVLIMAEKPVGDLSSPN  
ETKYIISLDQDSVVKLENWTDASRVDGVVLEKQVEDEFYRMYQTQVSDAGLYRCMTAW  
SPVRGSLWREAATSLSNPIEIDFQTS GPIFNASVHSDTPSVIRGDLIKLCIITVEGAAL  
DPDDMAFDVSWFAVHSFGLDKAPVLLSSLDKGI VTTSRDWDKSDLSLERSVLEFLLQV  
HGSEDQDFGNYYCSVTPWVKSP TGSWQKEAEIHSKPVFITVKMDVLNAFKYPLLIGVGLS  
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>sp|095684|FR10P\_HUMAN FGFR1 oncogene partner OS=Homo sapiens GN=FGFR10P PE=1 SV=1

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GTVGGPLLLLEVIRRCQKQKEGPTTGEGALDLSVHSPPKSPEGKTSAQTTSPSKIPRYKGQ  
GKKKTSQKAGDKKANDEANQSDTSVSLSEPKSKSSLHLLSHETKIGSFLSNRTLDGKDK  
AGLCPDEDDMEGDSFFDDPIPKPEKTYGLRKEPRKQAGSLASLSDAPPLKSGLSSLAGAP  
SLKDSESKRGNTVLKDLKLISDKIGSLGLGTGEDDDYVDDFNSTSHRSEKSEISIGEEIE  
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>sp|075474|FRAT2\_HUMAN GSK-3-binding protein FRAT2 OS=Homo sapiens GN=FRAT2 PE=2 SV=3

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VRGRAAPYCVAEVAAGPSALPGPCRRGWLRAVTSRRLQQRWTAQAGARAGDDDPHRLQ  
QLVLSGNLIKEAVRRLQRAVAAVAATGPASAPGPGGRSGPDRIALQPSGSLL

>sp|Q9P2Q2|FRM4A\_HUMAN FERM domain-containing protein 4A OS=Homo sapiens GN=FRMD4A PE=1  
SV=3

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FGIAFTDETGHNLWLQLDRRVLEHDFPKKSGPVVLYFCVRFYIESISYLKDNATIELFFL  
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AYCEDRVIEHYKKLNGQTRGQAI VNYMSIVESLPTYGVHYYAVKDKQGIPWWLGLSYKGI  
FQYDYHDKVKPRKIFQWRQLENLYFREKKFSVEVHDPRRASVTRRTFGHSGIAVHTWYAC  
PALIKSIWAMAI SQHFYLD RKQSKSKIHAARSLSEIAIDL TETGTLKTSKLANMGSKGK  
IISGSSGSLSSGSQESDSSQSAKKDMLAALKSRQEALEETLRQRLEELKKLCLREAELT  
GKL PVEYPLDPGEEPIVRRRIGTAFKLDEQKILPKGEEAELERLEREFAIQSQITEAAR  
RLASDPNVSKKKKQRKTSYLNALKKLQEIENAINENRIKSGKKPTQRASLIIDGNIAS  
EDSSLSDALVLEDEDSQVTSTISPLHSPHKGLPPRPPSHNRPPPPQSLEGLRQMHYHRND  
YDKSPIKPKMWSESSLDEPYEKVKKRSSHSHSSSHKRFPTGSCAEAGGGSNSLQNSPIR  
GLPHWNSQSSMPSTPDLRVRSPHYVHSTRSVDISPTRLHSLALHFRHRSSSLESQGKLLG

SENDTGSPDFYTPRTRSSNGSDPMDCCSSCTSHSSSEHYYP AQMNANYSTLAEDSPSKAR  
QRQRQRQRAAGALGSASSGSM PNLAARGGAGGAGGAGGGVYLHSQSQPSSQYRIKEYPLY  
IEGGATPVVVRSLSDQEGHYSVKAQFKTSNSYTAGGLFKESWRGGGDEGDTGRLTPSR  
SQILRTPSLGREGAHDKGAGRAAVSDEL RQWYQRSTASHKEHSRLSHTSSTSSDSGSQYS  
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ENSPILDGSESPPHQSTDE

>sp|Q7Z6J6|FRMD5\_HUMAN FERM domain-containing protein 5 OS=Homo sapiens GN=FRMD5 PE=1  
SV=1

MLSRMSGSSRSLEREYSCTVRLDDSEYTCTIQRDAKGQYLFDLLCHHLNLEKDYFGI  
RFVDPDKQRHWLEFTKSVVKQLRSQPPFTMCFRVKFYPADPAALKEEITRYLVFLQIKRD  
LYHGRLCKTSDAALLAAYILQAEIGDYDSGKHPEGYSSKFQFFPKHSEKLERKIAE IHK  
TELSGQTPATSELNFLRKAQTLETYGVDPHPCKDVSGNA AFLAFTPFQGFVVLQGNKRVHF  
IKWNEVTKLKFEGKTFYLYVSQKEEKKIILTYFAPTPEACKHLWKCGIENQAFYKLEKSS  
QVRTVSSSNLFFKGSRFRYSGRVAKEVMESSAKIKREPPEIHRAGMVPSRSCPSITHGPR  
LSSVPRTRRRRAVHISIMEGLESRLDSAHSTPVRSTSHGDTFLPHVRSRTDSNERVAVIA  
DEAYSPADSVLPTPVAEHSLEMLLSRQINGATCSIEEEKESEASTPTATEVEALGGELR  
ALCQGHSGPEEEQVKNFVLSVLRLLLVTMGLLFVLLLLLIILTESDL DIAFFRDIRQTPE  
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>sp|Q9BZ67|FRMD8\_HUMAN FERM domain-containing protein 8 OS=Homo sapiens GN=FRMD8 PE=1  
SV=1

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VREVLQLPDIALDV FALWLVSPLLEVQLKPKHQPYKLGRQWPELLLRFTSAPDDDVAMDE  
PFLQFRNRVFFPKRRELQIHDEEVLRLLYEEAKGNVLAARYPCDVEDCEALGALVCRVQL  
GPYPQGRPAACDLREKLDSFLPAHLCKRGQSLFAALRGRGARAGPGEQGLLNAYRQVQEV  
SSDGGCEAALGTHYRAYLLKCHELPFYGCAFFHGEVDKPAQGFLHRGGRKPVSV AISLEG  
VHVIDSREKHVLLGLRFQELS WDHTSPEEEEPILWLEFDGDSEGTVPNKLLKIYSKQ AEL  
MSSLIEYCIELSQA AEPAGPQDSATGSPSPDSSSLAPVQRPKLRRQGSVVSSRIQHLSTI  
DYVEDGKGIRRVKPKRTTSFFSRQLSLGQGSYTVVQPGDSLEQG

>sp|Q68DX3|FRPD2\_HUMAN FERM and PDZ domain-containing protein 2 OS=Homo sapiens GN=FRMPD2  
PE=1 SV=3

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SALLSAAGSLSFQGRVSHIEAAPFKAPELLQGQSEDEQPDASQMHVYSLGMTLYWSAGFH  
VPPHQPLQLCEPLHSILLTMCEDQPHRRCTLQSVLEACRVHEKEVSVYPAPAGLHIRRLV  
GLVLGTISEVEKRVVESSSVQQNRSYLLRKRLRGTSSES PAAQAPECLHPCRVSERSTE  
TQSSPEPHWSTLTHSHCSLLVNRALPGADPQDQAGRRLSSGSVHSAADSSWPTTPSQRG  
FLQRRSKFSRPEFILLAGEAPMTLHLPGSVVTKKGKSYLALRDLCVLLNGQHLEV KCDV  
ESTVGAVFNAVT SFANLEELTYFGLAYMKSKEFFFLDSETRLCKIAPEGWREQPQKTSMN  
TFTFLRIKFFVSHYGLLQHSLTRHQFY LQLRKDILEERLYCNEEILLQLGVLALQAEFG  
NYPKEQVESKPYFHVEDYIPASLIERMTALRVQVEVSEMHRLSSALWGEDAELKFLRV TQ  
QLPEYGVLVHQVFSEKR RPEEEMALGICAKGVIVYEVKNSRIAMLR FQWRETGKISTYQ  
KKFTITSSVTGKKHTFVTDSAKTSKYLLDLCSAQHG FNAQMGSGQPSHVLFHDH K FVQMA  
NLSPA HQARSKPLIWIQRLSCSENELFVSRLQGAAGLLSTSMDFNFVDGSKEAGAE GIG  
RSPCTGREQLKSACVIQKPM TWDSLGPVPVQSMHAGSKNNRRKS FIAEPGREIVRVTLKR  
DPHRGFGFVINEGEYS GQADPGIFISSIIPGGPAEKAKTIKPGGQILALNHISLEGFTFN

MAVRMIQNSPDNIELIISQSKGVGGNNPDEEKNSTANSVGSSTDILSFGYQGSLLSHTQD  
QDRNTEELDMAGVQSLVPRLRHQLSFLPLKGAGSSCPPSPPEISAGEIYFVELVKEDGTL  
GFSVTGGINTSVPYGGIYVKSIVPGGPAAKEGQILQGDRLQVDGVILCGLTHKQAVQCL  
TGPQGVARLVLERRVPSTQQCPSANDSMGDERTAVSLVTALPGRPSSCVSVTDGPKFEV  
KLKKNANGLGFSFVQMEKESCSHLKSDLVRIKRLFPGQPAEENGAIAGDIILAVNGRST  
EGLIFQEVLHLLRGAPQEVTL LCRPPPGALPELEQEWQTPELSADKEFTRATCTDSCTS  
PILDQEDSWRDSASPDAGEGLRPESSQKAIREAQWQGNRERPWASSLTHSPESHPLC  
KLHQRDESTLATSLEKDVRQNCYSVCDIMRLGRYSFSSPLTRLSTDIF

>sp|P19883|FST\_HUMAN Follistatin OS=Homo sapiens GN=FST PE=1 SV=2

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LSTSWTEEDVNDNTLFFKWMIFNGGAPNCIPCKETCENVDCGPGKKCRMNKKNKPRVCAP  
DCSNITWKGVPVCGLDGKTYRNECALLKARCKEQPELEVQYQGRCKKTCRDVFCPGSSSTCV  
VDQTNNAYCVTCNRICPEPASSEQYLCGNDGVITYSSACHLRKATCLLGRSIGLAYEGKCI  
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ACSSGVLLLEVKHSGSCNSISEDTEEEEEDEDQDYSFPISILEW

>sp|Q96M96|FGD4\_HUMAN FYVE, RhoGEF and PH domain-containing protein 4 OS=Homo sapiens  
GN=FGD4 PE=1 SV=2

MEEIKPASASCVSKEKPSKVSDLISRFEggSSLSNYSDLKKESAVN LNAPRTPGRHGLTT  
TPQQKLLSQHLPQRQGNDDTKTQGAQTCVANGVMAAQNMECEEEKAATLSSDTSIQASE  
PLLDTHIVNGERDETATAPASPTTDS CDGNASDSSYRTPGIGPVLPLEERGAETETKVQE  
RENGESPLELEQLDQHHEMKETNEQKLHKIANELL LTERAYVNRLDLLDQVFYCKLLEE  
NRGSFPAEMVNKIFSNISSINAFHSKFLLEPELEKRMQEWETTPRIGDILQKLAPFLKMYG  
EYVKGFDNAMELVKNMTERIPQFQSVVEEIQKQKICGSLTLQHMMLEPVQRIPRYEMLLK  
DYLRLKLPDSDLWDAKKSLEIIISTAASHNSAIRKMENLKKLEIYEMLGEEEDIVNPS  
NELIKEGQILKLAARNTSAQERYLFLFNNMLLYCVPKFSLVGSKFTVRTRVGDGMKIVE  
TQNEEYPHTFQVSGKERTLELQASSAQDKEEWIKALQETIDAFHQRHETFRNAIAKDNDI  
HSEVSTAELGKRAPRWIRDNEVTMCMKKEPFNALTRRRHHCACGYVVCWKCSDYKAQL  
EYDGGKLSKVCKDCYQIISGFTDSEEKKRGILEIESAEVSGNSVVCFLQYMEKSKPWQ  
KAWCVIPKQDPLVLVYMGAPQDVRAQATIPLLGYVVDEMPRSADLPHSFKLTQSKSVHSF  
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>sp|Q6ZNL6|FGD5\_HUMAN FYVE, RhoGEF and PH domain-containing protein 5 OS=Homo sapiens  
GN=FGD5 PE=1 SV=3

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TDEDIYIVVPRVPLREDEPKDEGSGNKALVSPESSAEEEEERE EGGEACGLEGTGAGEDS  
VAPAAPGAGALSREGEGTDLALED EGECAD EPGTLEQVSRSEEEELVQPHRECSLED  
SGPWAGEGVFQSDLLPHIHGEDQEPDTPGEAEEDDEEGCASTDPAGADEGSGPDRPTE  
DMGQDAEDTSEEPPEKEELAGVQEATATDCPEVLEEGCEEATGVTGGEQVDLSEPPDHE  
KKTNQEVAAATLEDHAQDESAEESCQIVPFENDCMEDFVTSLTGSPYEFFPTTESTSFCSE  
SCSPLSESAGLESEQAPKLGLRAEENPMVGALCGQCGSLQGGAAGPAAPDVVVVLEEE  
ALDDALANPYVMGVLPQGAAPGEGGQAASDALGGYGSKEELNCEAEGGLVPADRKNTST  
RVRPHSGKVAGYVPETVPEETGPEAGSSAPGIGGAAEEVGKTL SLEGKPLEASRALPAK  
PRAFTLYPRFSFVEGREIPVSVYQEPEGSLDDHRIKRKEDNLSLSCVIGSSGSFSQRNH  
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SLIFYRDGKRKGVPFSRTVSRVESFEDRSRPPFLPLPLTKPRISIFPSADTSDYENIPAM  
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ESAYTEPYKVCPISSAAPKEDLTSDEEQRSSEEDSASRDPSVTHKVEGQSALVIAQEL  
LSSEKAYVEMLQHLNLDHFHAGVMRALDDMDHEGRDTLAREELRQGLSELPAIHDHQQGIL  
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FEQSVQGGSQTAHRLRLRVVQRLFYQVLLTDYLNLCPSDAEYDNTQGALSLISKVTDR  
ANDSMEQGENLQKLVIHESVRGQGDLLQPGREFLKEGTLMKVTGKNRRPRHLFLMNDVL  
LYTYPQKDGKYRLKNTLAVANMKVSRPVMKVPYALKIETSESCLMLSASSCAERDEWYG  
CLSRALPEDYKAQALAAFHHSVEIRERLGVSLGERPPTLVPTVTHVMCMNCGCDFSLTLR  
RHHCHACGKIVCRNCSRNYPLKYLKDRMAKVCDCGFGELKKRGRAVPLMRERPVSMSF  
PLSSPRFSGSAFSSVFQSIINPSTFKKQKKVPSALTEVAASGEGSAISGYLSRCKRGKRHW  
KKLWFVIKGVLYTYMASEDKVALESMPLLGFTIAPEKEEGSSEVGPIFHLHYHKKTLFYS  
FKAEDTNSAQRWIEAMEDASVL

>sp|P12034|FGF5\_HUMAN Fibroblast growth factor 5 OS=Homo sapiens GN=FGF5 PE=1 SV=4

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LEIFAVSQGIVGIRGVFSNKLAMSKKGLHASAKFTDDCKFRERFQENSYNTYASAIHR  
TEKTGREWYVALNKRKAKRGCSRPVKPHISTHFLPRFKQSEQPELSFTVTVPKPKPP  
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>sp|Q9BYJ0|FGFP2\_HUMAN Fibroblast growth factor-binding protein 2 OS=Homo sapiens  
GN=FGFBP2 PE=1 SV=1

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VDCRNTDQTYWCEYRGQPSMCQAFAADPKPYWNQALQELRRLHHACQGAPVLRPSVCREA  
GPQAHMQQVTSSLKGSPEPNQPEAGTPSLRPKATVKLTEATQLGKDSMEELGKAKPTTR  
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>sp|P22607|FGFR3\_HUMAN Fibroblast growth factor receptor 3 OS=Homo sapiens GN=FGFR3 PE=1  
SV=1

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CPPPGGPMGPTVWVKDGTGLVPSERVLVGPQRLQVLNASHEDSGAYSCRQRLTQRLVCH  
FSVRVTDAPSSGDDDEGEDEAEDTGVDTGAPYWTRPERMDKLLAVPAANTVRFRCPAAG  
NPTPSISWLKNGREFRGEHRIGGIKLRHQQWSLVMESVVPSPDRGNYTCVVENKFGSIRQT  
YTLDVLESPHRPILQAGLPANQTAVLGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKVGP  
DGTPYVTVLKTAGANTTDKEVLVSLHNVTFEDAGEYTCLAGNSIGFSHSAWLVLPAE  
EELVEADEAGSVYAGILSYGVGFFLILVAAVTLCLRLSPPKKGLGSPTVHKISRFLK  
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GCFGQVMAEAIKIDKDRAAKPVTAVKMLKDDATDKDLSLVSEMEMMKMIGKHKNIIIN  
LLGACTQGGPLYVLVEYAAKGNLREFLRARRPPGLDYSFDTCKPPEEQLTFKDLVSCAYQ  
VARGMEYLASQKCIHRDLAARNVLVTEDNVMKIADFGLARDVHNLDYKKTTNGRLPVKW  
MAPEALFDRVYTHQSDVWSFGVLLWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKPANCT  
HDLYMIMRECWAAPSQRPTFKQLVEDLDRVLTVTSTDEYLDLSAPFEQYSPGGQDTPSS  
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>sp|Q96C11|FGGY\_HUMAN FGGY carbohydrate kinase domain-containing protein OS=Homo sapiens  
GN=FGGY PE=1 SV=2

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SQVNRINETKHSVLQYVGGVMSVEMQAPKLLWLKENLREICWDKAGHFFDLPDFLSWKAT  
GVTARSLCSLVCKWTYSAEKGWDDSFWMIGLEDFVADNYSKIGNQVLPFGASLGNGLTP  
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GISKDPIFVPGVWGPYFSAMVPGFWLNEGGQSVTGKLIHMQGHAAPFELQVKATARCQ  
SIYAYLNSHLDLIKKAQPVGFLLTVDLHVWPDFHGNRSPLADLTGKGMVTGLKLSQDLDDL  
AILYLATVQAIALGTRFIIEMEAAAGHSISTLFLCGGLSKNPLFVQMHADITGMPVVSQ  
EVESVLVGA AVL GACASGDFASVQEAMAKMSKVGVFPRLQDKKYDKKYQVFLKLVH  
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>sp|Q14314|FGL2\_HUMAN Fibroblast growth factor receptor-like 1 OS=Homo sapiens GN=FGL2 PE=1 SV=1

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APGEVGDNRVRELESEVNKLSELKNAKEEINVLHGRLEKLNLMNMNIENYVDSKVANL  
TFVNSLDGKCSKCPSEQEIQSRPVQHLYKDCSDYYAIGKRSSEYRVTDPKNSSFEV  
YCDMETMGGGWTVLQARLDGSTNFTRTWQDYKAGFGNLRREFWLGNKIHLLTKSKEMIL  
RIDLEDFNGVELYALYDQFYVANEFLKYRLHVGNYNGTAGDALRFNKHYNHDLKFFTPD  
KDNDRYPSGNCGLYSSGWFFDACLSANLNGKYYHQKYRGVRNGIFWGTWPGVSEAHPPG  
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>sp|Q8N441|FGRL1\_HUMAN Fibroblast growth factor receptor-like 1 OS=Homo sapiens GN=FGRL1  
PE=1 SV=1

MTSPLLLLLLPLLLLGAFPPAAAARGPPKMADKVVPQVARLGRTVRLQCPVEGDPPPL  
TMWTKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGSLSVNYTLVLDDI  
SPGKESLGPDSSSGGQEDPASQWARPRFTQPSKMRRRVIARVPGSSVRLKCVASGHPRP  
DITWMKDDQALTRPEAAEPRKKKWTLNLKLRPEDSGKYTCRVSNRAGAINATYKVDVIQ  
RTRSKPVLGTGHPVNTTVDFGGTTSFQCKVRSVDPVQVWLKRVEYGAEGRHNSTIDVGG  
QKFVVLPTGDVWSRPDGSYLNKLLITRARQDDAGMYICLGANTMGYSFRSAFLTVLPDPK  
PPGPPVASSSSATSLPWPVIGIPAGAVFILGTLWLWCQAQKKPCTPAPAPPLPGHRPP  
GTARDRSGDKDLPSLAALSAGPGVGLCEEHGSPAAPQHLLGPGPVAGPKLYPKLYTDIHT  
HTHTSHTHSHVEGKVHQHIIHYQC

>sp|P09769|FGR\_HUMAN Tyrosine-protein kinase Fgr OS=Homo sapiens GN=FGR PE=1 SV=2

MGCVFCKLEPVATAKEDAGLEGDFRSYGAADHYGPDTPKARPASSFAHIPNYSNFSSQA  
INPGFLDSGTIRGVSIGVTLFIALYDYEARTEDDLTFKGEKFHILNTEGDWWEARSL  
SSGKTGCIPSNYVAPVDSIQAEWYFGKIGRKAERQLSPGNPQGAFLIRESETTKGAY  
SLSIRDWDQTRGDHVHXYKIRKLDMGYYITTRVQFNSVQELVQHMEVNDGLCNLLIAP  
CTIMKPQTLGLAKDAWEISRSSITLERRLGTGCFGDVWLGWNGSTKVAVKTLKPGTMSP  
KAFLEEAQVMKLLRHDKLVLQYAVVSEPIYIVTEFMCHGSLLDFLKNPEGQDLRLPQLV  
DMAAQAEGMAYMERMNIIHRDLRAANILVGERLACKIADFGARLIKDDDEYNPCQGSKF  
PIKWTAPAAALFGRFTIKSDVWSFGILLTELITKGRIPYPMNKREVLEQVEQGYHMPCP  
PGCPASLYEAMEQTWRDLPEERPTFEYLQSFLEDYFTSAEPQYQPGDQT

>sp|O43427|FIBP\_HUMAN Acidic fibroblast growth factor intracellular-binding protein  
OS=Homo sapiens GN=FIBP PE=1 SV=3

MTSELDIFVGNTTIDEDVYRLWLDGYSVTDALVRVRSGLILEQTGATAAVLQSDTMDHY  
RTFHMLERLLHAPPKLLHQLIFQIPPSRQALLIERYAFDEAFVREVLGKKLSKGTKKDL  
DDISTKTGITLKSRRQFDNFKRVFKVVEEMRGSGLVDNIQQHFLLSDRLARDYAAIVFFA

NNRFETGKKKLQYLSFGDFAFCAELMIQNWTLGAVGEAPTDPSQMDDMDMDLDKEFLQD  
LKEKVLVADKDLLDLHKS LVCTALRGKLG VFS EMEANFKNLSRGLVNVA AKLTHNKDVR  
DLFVDLVEKFVEPCRS DHWPLSDVRFFLNQYSASVHSLD GFRHQALWDRYMGTLRGCLLR  
LYHD

>sp|Q9BVA6|FICD\_HUMAN Adenosine monophosphate-protein transferase FICD OS=Homo sapiens  
GN=FICD PE=1 SV=2

MMILPMASVMAVTEPKWVS VWSRFLWVTLLSMVLGSLLALLPLGAVEEQCLAVLKGLYL  
LRSKPDRAQHAATKCTSPSTELSITSRGATLLVAKTKASPAGKLEARAALNQALEMKRQG  
KREKAQKLFMHALKMDPDFVDALTEFGIFSEEDKDI IQADYLYTRALTISPYHEKALVNR  
DRTLPLVEEIDQRYFSIIDSKVKKVMSIPKGNLSALRRVMEETYYHHIYHTVAIEGNTLTL  
SEIRHILETRYAVPGKSLEEQNEVIGMHAAMKYINTT LVSRIGSVTISDVLEIHRRVLGY  
VDPVEAGRFRRTTQVLVGHHPHPQDVEKQMQEFVQWLNSEEAMNLHPVEFAALAHYKLV  
YIHPFIDGNGRTSRLLMNLILMQAGYPPITIRKEQRSDYYHVLEAANE G DVRPFIRFIAK  
CTETTLDTLLFATTEYSVALPEAQPNHSGFKETLPVKP

>sp|Q86VR8|FJX1\_HUMAN Four-jointed box protein 1 OS=Homo sapiens GN=FJX1 PE=2 SV=1

MGRMRGAAATAGLWLLALGSLLALWGGLLPRTLPASRPPE DRLPRRPARSGGPAPAP  
RFPLPPPLAWDARGGSLKTRALLTLAAGADGPPRQSRSEPRWHVSARQPRPEESA AVHG  
GVFWSRGL EEQVPPGFSEAQA AA WLEAARGARMVALERGGCGRSSNRLARFADGTRACVR  
YGINPEQIQGEALSYLLARLLGLQRHVPPLALARVEARGAQAQVQEELRAAHWTEGSVV  
SLTRWLPNLTDVVPVAPWRSEDGRLRPLRDAGGELANLSQAELVDLVQWTDLILFDYLT A  
NFDRLVSNLFSLQWDPRVMQRATSNLHRGPGGALVFLDNEAGLVHGYRVAGMWDKYNEPL  
LQSVCFRERTARRVLELHRGQDAAARLLRLYRRHEPRFPELAALADPHAQLLQRRDLFL  
AKHILHCKAKYGRRS GT

>sp|P49771|FLT3L\_HUMAN Fms-related tyrosine kinase 3 ligand OS=Homo sapiens GN=FLT3LG  
PE=1 SV=1

MTVLAPAWSPTTYLLLLLLLLSSGLSGTQDCSFQHSPISDFAVKIRELSDYLLQDYPVTV  
ASNLQDEELCGGLWRLVLAQRWMERLKT VAGSKMQGLLERVNTEIHFVTKCAFQPPPSCL  
RFVQTNISRLQETSEQLVALKPWITRQNF SRCLELQCQPD SSTLPPPWSRPLEATAPT  
APQPPLLLLLLLPVGLLLLA AAWCLHWQRTRRRTPRPGEQVPPVPSPQD LLLVEH

>sp|B3EWG4|FM25B\_HUMAN Putative protein FAM25BP OS=Homo sapiens GN=FAM25BP PE=5 SV=1

MLGGLGKLAAEGLAH RTEKATEGAIHAVEEVVKEVVGHAKETGEKAI AEAIKKAQESGDK  
KMKEITETVTNTVTNAITHAAESLDKLGQ

>sp|Q9NZ56|FMN2\_HUMAN Formin-2 OS=Homo sapiens GN=FMN2 PE=1 SV=4

MGNQDGKLR SAGDALHEGGGAEDALGPRDVEATKKGSGGKKALGKHGKGGGGGGGGGE  
SGKKKSKSDSRASVFSNLRI RKNLSKGKGAGGSREDV LDSQALQTGELDSAHSLLTKTPD  
LSLSADEAGLS DTECADPFVETGPGGPGPAEARVGRPIAEDVETAAGA QDGQRTSSGSD  
TDIYSFHSATEQEDLLSDIQQAIRLQQQQQQQLQLQLQQQQQQQLQGAE EPAAPTAVS  
PQPGAFLGLDRFLLGPSGGAGEAPGSPDTEQALSALSDL PESLAAEPREPQPPSPGGLP  
VSEAPSLPAAQPAKDSPSSTAFFPFEAGPGEEAAGAPVRGAGDTDEEGEEDAFEDAPRG  
SPGEEWAPEVGEDAPQRLGEEPEEEAQGPDAPAAASLPGSPAPSQR CFKPYPLITPCYIK  
TTTRQLSSPNHSPSQSPNQSPRIKRRPEPSLSRGSRTALASVAAPAKKHRADGGLAAGLS  
RSADWTEELGARTPRVGGSAHLLERGVASDSGGGVSPALAAKASGAPAAADGFQNVFTGR  
TLLEKLFSQQENGPP EAEKFCSR I IAMGLLLPFSDCFREPCNQNAQTNAASFDQDQLYT  
WAAVSQPTHSLDYSEGQFPRRVPSMGPPSKPPDEEHRLEDAETESQSAVSETPQKRSDAV

QKEVDMKSEGQATVIQQLEQTIEDLRTKIAELERQYPALDTEVASGHQGLENGVTASGD  
VCLEALRLEEKEVRHHRILEAKSIQTSPTTEGGVLTLPVDGLPGRPPCPPGAESGPQTK  
FCSEISLIVSPRRISVQLDSHQPTQSISQPPPPPSLLWSAGQGQPGSQPPHSISTEFQTS  
HEHSVSSAFKNSCNIPSPPLPCTESSSSMPGLGMVPPPPPLPGMTVPTLPSTAIPQPP  
PLQGTEMLPPPPPLPGAGIPPPPLPGAGILPLPLPGAGIPPPPLPGAAIPPPPLP  
GAGIPLPPPLPGAGIPPPPLPGAGIPPPPLPGAGIPPPPLPGAGIPPPPLPGAGIP  
PPPPLPGAGIPPPPLPGAGIPPPPLPGAGIPPPPLPGAGIPPPPLPGAGIPPPPL  
PGAGIPPPPLPGAGIPPPPLPGVGIPPPPLPGAGIPPPPLPGAGIPPPPLPGAGI  
PPPPPLPRVGIPPPPLPGAGIPPPPLPGAGIPPPPLPGVGIPPPPLPGVGIPPPPL  
LPGAGIPPPPLPGMGIPAPAPLPPPGTGIPPPPLPVSGPPLLQVGSSTLPTPQVC  
GFLPPPLPSGLFGLGMNQDKGSRKQPIEPCRPMPKLYWTRIQLHSKRDSSTSLIWEKIEE  
PSIDCHEFEELFSKTAVKERKKPISDTISKTKAKQVVKLLSNKRSQAVGILMSSLHDMK  
DIQHAVVNLDNSVVDLETQALYENRAQSDELEKIEKHGRSSKDKENAKSLDKPEQFLYE  
LSLIPNFSERVFCILFQSTFSESICSIKKLELLQKLCETLKNPGVMQVLGLVLAFGNY  
MNGGNKTRGQADGFLDILPKLDVKSSDNSRSLLSYIVSYLRNFEDAGKEQCLFPLP  
EPQDLFQASQMKFEDFQKDLRLKKDLKACEVEAGKVYQVSSKEHMQPFKENMEQFIQA  
KIDQEAEEENSLTETHKCFLETTAYFFMKPKLGEKEVSPNAFFSIWHEFSSDFKDFWKEN  
KLLLQERVKEAEEVCRQKKGKSLYKIKPRHDSGIKAKISMKT

>sp|P31513|FMO3\_HUMAN Dimethylaniline monooxygenase [N-oxide-forming] 3 OS=Homo sapiens  
GN=FMO3 PE=1 SV=5

MGKKVAIIAGVSGLASIRSCLEEGLEPTCFEKSNDIGGLWKFSDHAEGRASIYKSVFS  
NSSKEMMCFDPDFPDDFPNFMHNSKIQEYIIAFAKEKNLLKYIQFKTFVSSVNKHPDFA  
TTGQWDVTTTERDGKESAVFDAMVCSGHHVYPNLPKESFPGLNHFKGKCFHSRDYKEPG  
VFNGKRVLVVGLGNSGCDIATELSRTAEQVMISSRSGSWMSRVWDNGYPWDMLLVTRFG  
TFLKNNLPTAISDWLYVKQMNARFKHENYGLMPLNGVLRKEPVFNDELPASILCGIVSVK  
PNVKEFTETSAIFEDGTIFEGIDCVIFATGYSFAYPFLDESIKSRNNEIILFKGVFPPL  
LEKSTIAVIGFVQSLGAAIPTVDLQSRWAAQVIKGTCTLPSMEDMMNDINEKMEKKRKWF  
GKSETIQTDYIVYMDELSSFIGAKPNIPWLFLTDPKLAMEVYFGPCSPYQFRLVGPQGWP  
GARNAILTQWDRSLKPMQTRVVGRLQKPCFFHWWLKLFAIPILLIAVFLVLT

>sp|Q96DP5|FMT\_HUMAN Methionyl-tRNA formyltransferase, mitochondrial OS=Homo sapiens  
GN=MTFMT PE=1 SV=2

MRVLVRRCWGPPLAHGARRGRSPQWRALARLGWEDCRDSRVREKPPWRVLFPGTDQFAR  
EALRALHAARENKEEELIDKLEVVTMPSPSPKGLPVKQYAVQSQLPVYEWPDVGSGEYDV  
GVVASFGRLLEALILKFPYGILNVHPSCLPRWRGPAPVIHTVLHGDTVGTIMQIRPK  
RFDVGPILKQETVPVPKSTAKELEAVLSRLGANMLISVLKNLPESLSNGRQQPMEGATY  
APKISAGTSCIKWEEQTSEQIFRLYRAIGNIIPQLTLWMANTIKLLDLVEVNSSVLADPK  
LTGQALIPGSVIYHKQSQILLVYCKDGWIGVRSVMLKKSLTATDFYNGYLHPWYQKNSQA  
QPSQCRFQTLRLPTKKKQKKTVMQQCIE

>sp|Q96RU3|FNBP1\_HUMAN Formin-binding protein 1 OS=Homo sapiens GN=FNBP1 PE=1 SV=2

MSWGTELWDQFDNLEKHTQWGIDILEKYIKFVKERTEIELSYAKQLRNLSSKKYQPKKNSK  
EEEEYKYTSCKAFISNLNEMNDYAGQHEVISENMQSIIVDLARYVQELKQERKSNFHDG  
RKAQQHIETCWKQLESSKRRFERDCKEADRAQQYFEKMDADINVTKADVEKARQQAQIRH  
QMAEDSKADYSSILQKFNHEQHEYYHTHIPNIFQKIQEMEERRIVRMGESMKTYAEVDRQ  
VIPIIGKCLDGIVKAAESIDQKNDSQLVIEAYKSGFEPPGDIEFEDYTQPMKRTVSDNSL



SNSRGEKPD LKFGGKSKGLWPF IKKNKLSLLTSPHQPPPPPPASASPSAVPNGPQSP  
KQKKEPLSHRFNEFMTSKPKIHCFRSLKRGLSLKL GATPEDFSNLPPEQRRKKLQKQVDE  
LNKEIQKEMDQRDAITKMKDVYLKNPQMGDPASLDHKLAEVSQNI EKL RVETQKFEAWLA  
EVEGRLPARSEQARRQSGLYDSQNPP TVNNCAQDRESPDGSYTEEQSQESEM KVLATDFD  
DEFDDEEPLPAIGTCKALYTFEGQNEG TISVVEGETLYVIEEDKGDGWTRIRRNDEEGY  
VPTSYVEVCLDKNAKDS

>sp|F2Z333|FND10\_HUMAN Fibronectin type III domain-containing protein 10 OS=Homo sapiens  
GN=FND10 PE=3 SV=1

MRAPLLLLLLAACAPPPCAAAAPTPPGWEPTDAPWCPYKVLPEGPEAGGGRLCFRSPAR  
GFRCQAPGCVLHAPAGRSRLASVLRNRSVLLQWRLAPAAAARRVRAFALNCSWRGAYTRFP  
CERVLLGASCRDYLDPDVHDSVLYRLCLQPLPLRAGPAAAAPETPEPAECVEFTAEPAGM  
QDIVVAMTAVGGSICVMLVVICLLVAYITENLMRPALARPGLRRHP

>sp|Q9Y2H6|FND3A\_HUMAN Fibronectin type-III domain-containing protein 3A OS=Homo sapiens  
GN=FND3A PE=1 SV=4

MAEHPLLDDTTQILSSDISLLSAPIVSADGTQQVILVQVNPGEAFTIRREDGQFQCITGP  
AQVPMMSPNGSVPPPIYVPPGYAPQVIEDNGVRRVVVPQAPEFHGSHTVLHRSPHPPLP  
GFIPVPTMPPPPRHMYSPTGAGDMTTQYMPQYQSSQVYGDVAHSTHGRSNFRDERS  
KTYERLQKKLKDRQGTQKDKMSSPSSPQKCPSPINEHNGLIKQIAGGINTGSAKIKSG  
KGKGGTQVDTEIEEKDEETKA FEALLSNIVKPVASDIQARTVVLTWSPSSLINGETDES  
SVPELYGYEVLISSTGKDGKYSVYVGEETNITLNDLK PAMDYHAKVQAEYNSIKGTPSE  
AEIFTTLSCEPDIPNPPRIANRTKNSLTQWKAPSDNGSKIQNFVLEWDEGKGNGEFCQC  
YMGSKQKFKITKLSPAMGCKFRLSARNDYGTSGFSEEVLYYTSGCAPSMPASPVLTKAGI  
TWLSLQWSKPSGTPSDEGISYILEMEEETSGYGFKPKYDGEDLAYTVKNLRRSTKYKFKV  
IAYNSEGKSNPSEVVEFTTCPDKPGIPVKPSVKGKIHSFSKITWDPKDNNGGATINKYV  
VEMAEGSNGNKMWEMIYSGATREHLCDRLNPGCFYRLRVYCISDGGQSAVSESLVQTPAV  
PPGPCLPPRLQGRPKAKEIQLRWGPPLVDGGSPISCYSVEMSPIEKDEPREVYQGSEVEC  
TVSSLLPGKTYSFRLRAANKMGFGPFSEKCDITTAPGPPDQCKPPQVTCRSATCAQVNWE  
VPLSNGTDVTEYRLEWGGVEGSMQICYCGPLSYEIKGLSPATTYYCRVQALS VVGAGPF  
SEVVACVTPPSVPGIVTCLQEISDDEIENPHYSPSTCLAISWEKPCDHGSEILAYSIDFG  
DKQSLTVGKVTSYIINNLPDTTYRIRIQALNSLGAGPF SHMIKLT KPLPPDPPRLECV  
AFSHQNLKLKWEGTPKTLSTDSIQYHLQMEDKNGRFVSLYRGPCHTYK VQRLNESTSYK  
FCIQACNEAGEGPLSQEYIFTTPKSVPAALKAPKIEKVNDHICEITWECLQPMKGDPVIY  
SLQVMLGKDSEFKQIYKGPDSSFRYSSLQLNCEYRFRVCAIRQCQDSLGHQDLVGPYSTT  
VLFISQRTEPPASTNRD TVESTRTRRALSDEQCAAVILVLF AFFSILIAFIIQYFVIK

>sp|Q5VTL7|FND7\_HUMAN Fibronectin type III domain-containing protein 7 OS=Homo sapiens  
GN=FND7 PE=2 SV=3

MAGGRETCLPLIGFILICLKMVASAKSAPEIPTIDQAYSKLSNSITVEWATVPGATSYLL  
TAEDGDTVIEETTVANSPGTVTGLKAATWYEITIRSISAAGRSQASPPKQAKTVLAAPILE  
VSSPSSDSILVQWEAVYMAIAFSVSIMRANGLGSIWKENTNTSLTFTSLEAGTLYTIKA  
YAWNANRIPGDDSTCNQRTSPRAPANIQVSFDSGALKASFWARAEGAFNYTVMALSDSS  
ELTCSTTFSSCTISSLQCGTEYLISVLASNDAGSSKSSSAMTLKTVACAPGRVTIQEDPP  
GHLVSAWSSVDLGDYVYVFKSDDGLEVHCNTSLTQC NFLSECGFTYFISV FVYNKAGQS  
PLGDI FNYTTAPCCPSDINPVLVSSDRVEI VWPV RGAELYETKAVDGYNMVECNDTPA  
CTLSALECDTKYNITVYSFNEVRGSNMSCTPQFITTAPCSPEIKNVS RDAFSMINVHWRS

TNDDATYTVTAQGEKGLYQCSSTGESCTMRGLPCGSVFSVTAVAETQAGRSLPSYSVPLE  
TVPCCTGLTVTQITQSVINVSWTIGRVAQTHVAVLESHTGQSKCHTHQNHCLLCITCG  
INYTVTLKAISATGLTADCSYQSYFSGACCPGLGVKLYRLGPNGIRIYWQASRGSANYSTD  
LYGSKGIFTCTPSAGLSFCDVTEIPCGDVYTMVSPVAKTGLKLTFCKPKIYSVTCSGST  
LGMVIYRGKRNEE

>sp|Q05932|FOLC\_HUMAN Folylpolyglutamate synthase, mitochondrial OS=Homo sapiens GN=FPGS  
PE=1 SV=3

MSRARSHLRAALFLAAASARGITTQVAARRGLSAWPVPQEPSMEYQDAVRMLNTLQTNAG  
YLEQVKRQRGDPQTQLEAMELYLARSGLQVEDLDRINI IHVTGTKGKGSTCAFTCEILRS  
YGLKTGFFSSPHLVQVRERIRINGQPI SPELFTKYFWRLYHRLEETKDGSCVSMPPYFRF  
LTLMAFHVFLQEKVDLAVVEVGIGGAYDCTNI IRKPVVCVSSLGIDHTSLLGDTVEKIA  
WQKGGIFKQGVPAFTVLQPEGPLAVLRDRAQQISCPLYLCPMLEALEEGPPLTLGLEGE  
HQRNAAALALQLAHCWLQRQDRHGAGEPKASRPGLLWQLPLAPVFQPTSHMRLGLRNTEW  
PGRTQVLRGPLTWYLDGAHTASSAQACVRWFRQALQGRERPSGGPEVRVLLFNATGDRD  
PAALLKLLQPCQFDYAVFCPNL TEVSSTGNADQQNFTVTLDQVLLRCLEHQHWNHLDEE  
QASPDLSAPSPEPGGSASLLAPHPHTCSASSLVFSCISHALQWISQGRDPIFQPPSP  
PKGLLTHPVAHSGASILREAAAIHVLTGSLHLVGGVLKLEPALSQ

>sp|Q04609|FOLH1\_HUMAN Glutamate carboxypeptidase 2 OS=Homo sapiens GN=FOLH1 PE=1 SV=1

MWNLLHETDSAVATARPRWLCAGALVLAGGFLLGFLFGWFIKSSNEATNITPKHNMKA  
FLDELKAENIKKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYDVLLSYP  
NKTHPNYISIIINEDGNEIFNTSLFEPPPPGYENVSDIVPPFSAFSPQGMPEGDLVYVNYA  
RTEDFFKLERDMKINCSGKIVIARYGKVFRGNKVNAQLAGAKGVILYSDPADYFAPGVK  
SYPDGWNLPGGGVQRGNILNLNGAGDPLTPGYPANAYRRGIAEAVGLPSIPVHPIGYY  
DAQKLEKMGGSAPPDSSWRGSLKVPYNVGPFGFTGNFSTQKVKMHISTNEVTRIYNVIG  
TLRGAVEPDRYVILGGHRDSWVFGGIDPQSGAAVVHEIVRSFGTLKKEGWRPRRTILFAS  
WDAEEFGLLGSTEWAEENSRLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVHNLTK  
LKSPDEGFEGKSLYESWTKKSPSEFSGMPRISKLGSGNDFEVFFQRLGIASGRARYTKN  
WETNKFSGYPLYHSVYETVELVEKFYDPMFKYHLTVAQVRGGMVFELANSIVLPFDCRDY  
AVVLRYADKIYSISMKHPQEMKTYSVSFDLSFSAVKNFTEIASKFSERLQDFDKSNPIV  
LRMMNDQLMFLERAFIDPLGLPDRPFYRHVIYAPSSHNKYAGESFPGIYDALFDIESKVD  
PSKAWGEVKRQIYVAAFTVQAAAETLSEVA

>sp|Q5VYV0|FOXB2\_HUMAN Forkhead box protein B2 OS=Homo sapiens GN=FOXB2 PE=3 SV=1

MPRPGKSSYSDQKPPYSYISLTAMAIQHSAEKMLPLSDIYKFIMERFPYYREHTQRWQNS  
LRHNLSFNDCFIKIPRRPDQPGKGSFWALHPDCGDMFENGSLRRRKRFKVLRADHHLH  
AGSTKSAPGAGPGGHLHPHHHHHPHHHHHHHAAHHHHHHHPQPPPPPPPPPHMVHYF  
HQPPTAPQPPPHLPSQPPQPPQSQPPQPSHPGKMQEAAAIAAAAAAAAAAAVGSVGR  
LSQFPYPYGLSAAAAAAAAASTSGFKHPFAIENIIGRDYKGVLAGGLPLASVMHHLGY  
PVPGQLGNVSSVWPHVGVMSVAAAAAAAGVPVGPEYGAFGVPVKSLSCHSASQSLP  
AMPVPIKPTPALPPVSALQPLTVPAASQQPPAPSTVCSAAAASPVASLLEPTAPTSAES  
KGGSLHSVLVHS

>sp|Q16676|FOXDI\_HUMAN Forkhead box protein D1 OS=Homo sapiens GN=FOXDI PE=2 SV=1

MTLSTEMSDASGLAEETDIDVVGEGEDEDEDEDEDDDEGGGGGPRLAVPAQRRRRRRSYA  
GEDELEDLEEEEDDDILLAPPAGGSPAPGPAPAAGAGAGGGGGGGGAGGGGSAGSGAK  
NPLVKPPYSYIALITMAILQSPKKRLTLSEICEFISGRFPYYREKFPWQNSIRHNLSLN

DCFVKIPREPGNPGKGYWTLPESADMFDNGSFLRRRKRFKRQPLLPNAAAAESLLLR  
GAGAAGGAGDPAAAAAALFPPAPPPPPHAYGYGPYGCYGLQLPPYAPPSALFAAAAAA  
AAAFHPHSPPPPPPHGAAAELARTAFGYRPHPLGAALPGPLPASAAKAGGPGASALARS  
PFSIESIIGGSLGPAAAAAAQAQAAAAQASPSPPVAAPPAPGSSGGGCAAQAAVGPA  
ALTRSLVAAAAAASSVSSSAALGTLHQGTALSSVENFTARISNC

>sp|Q6ZQN5|FOX12\_HUMAN Forkhead box protein I2 OS=Homo sapiens GN=FOX12 PE=2 SV=2  
MATYCDLGPSSAPPGQAQATAHPPGYEPGDLGAVGGGPLLWVNAPALSPKSYASGPGPA  
PPYAAPSYGAPGPLLGAAGLAGADLAWLSLSGQQELLRLVRPPYSYALIAMAISAPL  
RKLTLISQIYQYVAGNFPFYKRSKAGWQNSIRHNLNLNDCFKKVRDEDDPGKGYWTLP  
NCEKMFNGNFRKRKRRAEASA AVRSGARSVGGAEAPALEPPSAACLDLQASPSPSAPE  
AATCFSGFASAMSALAGGLGTFPGGLAGDFSFGRRPPTVATHAPQTLNPSPGFAPGHQTA  
AAGFRLSHLLYSREGTEV

>sp|P32314|FOXN2\_HUMAN Forkhead box protein N2 OS=Homo sapiens GN=FOXN2 PE=1 SV=3  
MGPVIGMTPDKRAETPGAELIAGLSQIYKMGSLPEAVDAARPKATLVDESADDELTNLN  
WLHESNLNLTNFSLGSEGLPIVSPDYDIEGDDVPSFGPACYQNPBKKSATSKPPYSFSL  
IYMAIEHSPNKLVPKEIYSWILDHFPYFATAPTGWKNSVRHNLNLNCKCFQKVERSHGKV  
NGKGSLLWCVDPEYKPNLIQALKKQPFSSASSQNGSLSPHYLSSVIKQNVRLKESDIDA  
AAAMMLNTSIEQGLECEKPLPLKTALQKKRSYGNAFHHPSAVRLQESDSLATSIDPKE  
DHNYSASSMAAQRCASRSSVSSLSVDEVYEFIPKNSHVGSDGSEGFHSEEDTDVDYEDD  
PLGDSGYASQPCAKISEKGQSGKKMRKQTCQEIDEELKEAAGSLLHLAGIRTCLGSLIST  
AKTQNKQKQKK

>sp|Q96NZ1|FOXN4\_HUMAN Forkhead box protein N4 OS=Homo sapiens GN=FOXN4 PE=1 SV=2  
MIESDTSSIMSGIIRNSGQNHHPSPQEYRLLATTSDDDLPGDLQSLSWLTAVDVPRLQQM  
ASGRVDLGGPCVPHPHPGALAGVADLHVGTATPSPLLHGPAGMAPRGMPGLGPITGHRDSM  
SQFPVGGQPSSGLQDPPHLYSPATQPQFPLPPGAQQCPPVGLYGPPFGVRPPYPQPHVAV  
HSSQELHPKHYPKPIYSYSLIAMALKNSKTGSLPVSEIYSFMKEHFPYFKTAPDGWKN  
VRHNLNLNCKFEKVENKMSGSSRKGLWALNLARIDKMEEMHKWKRKDAAIHRSMANP  
EELDKLISDRPESCRRPKGPEPEAPVLTHATTVAVAHGCLAVSGLPPQPLMTLSLQSV  
LHHQVQPQAHLPDSPAQAQTPPLHALPDLSPSPLPHAMGRAPVDFINISTDMNTEVDA  
LDPSIMDFALQNLWEEMKDEGFSLDTLGAFADSPGCDLGASGLTPASGGSDQSFQDLQ  
VTGLYTAYSTPDVAASGTSSSSQYLGAQGNKPIALL

>sp|Q43524|FOXO3\_HUMAN Forkhead box protein O3 OS=Homo sapiens GN=FOXO3 PE=1 SV=1  
MAEAPASPAPLSPLEVELDPEFEPQSRPRCTWPLQRPELQASPAKPSGETAADSMIPEE  
EDEDEDDEGGGRAGSAMAIGGGGGSGTLGSGLLLEDSARVLAPGGQDPGSGPATAAGGLS  
GGTQALLQPQPLPPPQGAAGGSGQPRKCSSRRNAWGNSYADLITRAIESSPKRLTL  
SQIYEWVRCVPYFKDKGDSNSSAGWKNIRHNLNLHSLRFRMRVQNEGKGSSWWIINPDG  
GKSGKAPRRRAVSMDNSNKYTKSRGRAAKKKAALQTAPESADDSQSLSKWPGSPTSRS  
DELDAWTDFRSTNSNASTVSGRLSPIMASTELDEVQDDAPLSPMLYSSASLSPSVSK  
PCTVELPRLTDMAGTMNLNDGLTENLMDLNDNITLPPSQPSPTGGLMQRSSSFYTTKG  
SGLGSPTSSFNSTVFGPSSNLNRQSPMQTIQENKPATFSSMSHYGNQTLQDLLTSDSL  
HSDVMMTQSDPLMSQASTAVSAQNSRRNVMLRNDPMSFAAQPNGSLVNQNLHHQHQT  
QGALGGSRALNSVSNMGLSESSSLGSAKHQQSPVSQSMQTLSDSLSGSSLYSTSANLP  
VMGHEKFPDLDLDMFNGSLECDMESIIRSELMDADGLDFNFDSLSTQNVVGLNVGNFT  
GAKQASSQSWVPG

>sp|O15409|FOXP2\_HUMAN Forkhead box protein P2 OS=Homo sapiens GN=FOXP2 PE=1 SV=2

MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQQALQA  
ARQLLLQQQTSGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQILQQQVLSPQQLQA  
LLQQQQAVMLQQQQLQEFYKKQQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQ  
QQQQQQQQQQHPGKQAKEQQQQQQQQQLAAQQLVFQQQLLQMQLQQQHLHLSLQRQG  
LISIPPGQAALPVQSLPQAGLSPAETIQQWLKEVTGVHSMEDNGIKHGGLDLTTNNSSTT  
SSNTSKASPPITHHSIVNGQSSVLSARRDSSSHEETGASHTLYGHGVCKWPGCESICEDF  
GQFLKHLNNEHALDDRSTAQCRVQMQVVQQLLEIQLSKERERLQAMMTHLMRPSEPKPSP  
KPLNLVSSVTMSKNMLETSPQSLPQTPTTPTAPVTPITQGPSVITPASVPNVGAIRRRHS  
DKYNIPMSSEIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAY  
FRRNAATWKNAVRHNLHLKCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPT  
SLGYGAALNASLQAALAESSPLLSNPGLINNASSGLLQAVHEDLNGSLDHIDSNGNSSP  
GCSPQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPLEDDREIEEEPLSEDL

>sp|P14324|FPPS\_HUMAN Farnesyl pyrophosphate synthase OS=Homo sapiens GN=FDPS PE=1 SV=4

MPLSRWLRSVGVFLLPAPYWAPRERWLGSLRRPSLVHGYPVLAHWSARCWCQAWTEEPRA  
LCSSLRMNGDQNSDVYAQEKQDFVQHFSQIVRVLTEDEMGHPEIGDAIARLKEVLEYNAI  
GGKYNRGLTVVAVFRELVEPRKQDADSLQRAWTVGWCVELLQAFFLVADDIMDSSLTRRG  
QICWYQKPGVGLDAINDANLLEACTYRLLKLYCREQPYLNLIELFLQSSYQTEIGQTL  
LLTAPQGNVDLVRFTKRYKSIVKYKTAFYSFYLPAAAMYMAGIDGEKEHANAKKILLE  
MGEFFQIQDDYLDLFGDPSVTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGGKE  
AEKVARVKALYEELDPAVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK

>sp|P19087|GNAT2\_HUMAN Guanine nucleotide-binding protein G(t) subunit alpha-2 OS=Homo sapiens GN=GNAT2 PE=2 SV=4

MSGGASAEDEKELAKRSKELEKKLQEDADKEAKTVKLLLLGAGESGKSTIVKQMKIIHQDG  
YSPEECLEFKAI IYGNVLSILAIIRAMTTLGIDYAEPSCADDGRQLNNLADSIEEGTMP  
PELVEVIRRLWKDGGVQACFERAAEYQLNDSASYLNLQLERITDPEYLPSEQDVLRSRVK  
TTGIIETKFSVKDLNFRMFVGGQRSEKRWIHCPEGVTCIIFCAALSAYDMVLVEDDEV  
NRMHESLHLFNSICNHKFFAATSIVLFLNKKDLFEKIKKVHLSICFPEYDGNNSYDDAG  
NYIKSQFLDLNMRKDVKETIYSHMTCATDTQNVKFVFDVTDIIKENLKDGLF

>sp|Q9NVN8|GNL3L\_HUMAN Guanine nucleotide-binding protein-like 3-like protein OS=Homo sapiens GN=GNL3L PE=1 SV=1

MMKL RHKNKPGEGSKGHKKISWPYPQPAKQNGKKATSKVPSAPHFVHPNDHANREAEK  
KKWVEEMREKQQAAREQERQKRRTIESYCQDVLRRQEEFEHKEEVLQELNMFQLDDEAT  
RKAYYKEFRKVVEYSDVILEVL DARDPLGCRCFQMEEAVLRAQGNKKLVVLNKKIDLVPK  
EVVEKWL DYLRLNLP T VAFKASTQH QVKNLNRCSVPVDQASESLKSKACFGAENLMRVL  
GNYCRLGEVRTHIRVGVVGLPNVGKSSLINSLKRSRACSVGAVPGITKFMQEVYLDKFIR  
LLDAPGIVPGPNEVGITL RNCVHVQKLADPVPVETILQRCNLEEISNYYGVSGFQTTE  
HFLTAVAHRLGKKKGGGLYSQEQA AKAVLADWVSGKISFYIPPPATHTLPTHLSAEIVKE  
MTEVFDIEDTEQANEDTMECLATGESDELLGDTDPLEMEIKLLHSPMTKIADAIENKTTV  
YKIGDLTG YCTNPNRHQMGWAKRNV DHRPKSNSMVDVCSVDRRSVLQRIMETDPLQGGQA  
LASALKNKKKMQKRADKIASKLSDSMMSALDLSGNADDGVD

>sp|Q14749|GNMT\_HUMAN Glycine N-methyltransferase OS=Homo sapiens GN=GNMT PE=1 SV=3

MVDSVYRTRSLGVAAEGLPDQYADGEAARVWQLYIGDTRSRTAEYKAWLLGLLRQHGCQR  
VLDVACGTGVDSIMLVEEGFSVTSVDASDKMLKYALKERWNRREHAPAFDKWVIEEANWMT

LDKDVPSAEGGFDAVICLGNSFAHLPDCKGDQSEHRLALKNIASMRAGGLVIDHRNY  
DHILSTGCAPPKNIYYKSDLTKDVTTSVLIVNNKAHMTLDYTVQVPGAGQDGSPLSK  
FRLSYYPHCLASFTELLQAAGGKCQHSVLGDFKPYKPGQTYIPCYFIHVLKRTD

>sp|Q3T906|GNPTA\_HUMAN N-acetylglucosamine-1-phosphotransferase subunits alpha/beta  
OS=Homo sapiens GN=GNPTAB PE=1 SV=1

MLFKLLQRQTYTCLSHRYGLYVCF LGVVVTIVSAFQFGEVVLEWSRDQYHVLFD SYRDNI  
AGKSFQNRRLCLPMPIDVVYTWVNGTDLELLKELQQVREQMEEEQKAMREILGKNTTEPTK  
KSEKQLECLLTHCIKVPMLVLDPALPANITLKDLP SLYP SFHSASDIFNVAKPKNPSTNV  
SVVVF DSTK DVEDAHSGLLKGNRQTVWRGYLT TDKEVPGLVLMQDLAFLSGFPPTFKET  
NQLKTKLPENLSSKVLLQLYSEASVALLKLNNPKDFQELNKQTKKNMTIDGKELTISPA  
YLLWDLSAISQSKQDEDISASRFEDNEELRYSLSIERHAPWVRNIFIVTNGQIPSWLNL  
DNPRVTIVTHQDVFRNLSHLPTFSSPAIESHIHRIEGLSQKF IYLNDDVMFGKDVWPDDF  
YSHSKGQKVYLTWPVPNCAEGCPGSGWIKDGYCDKACNNSACDWDGGDCSGNSGGSRYIAG  
GGGTGSIGVGQPWFQGGGINSVSYCNQGCANSWLADKFCDAQCNVLS CGFDAGDCGQDHF  
HELYKVILLPNQTHYIIPKGECLPYFSFAEVA KRGEV GAYSDNPIIRHASIANKWKT IHL  
IMHSGMNATTIHFNLTFQNTNDEEFKMQITVEVD TREGPKLNSTAQKGYENLVSPITLLP  
EAEILFEDIPKEKRFPKFRHDVNSTRRAQEEVKIPLVNISLLPKDAQLSLNTLDLQLEH  
GDITLKGYNLSKSALLRSFLMNSQHAKIKNQAIITDETNDSLVAPQEKQVHKSILPNSLG  
VSERLQRLTFPAVSVKVNGHDQGGNPPLDLETTARFRVETH TQKTIGGNVTKEKPPSLIV  
PLESQMTKEKKITGKEKENS RMEENAENHIGVTEVLLGRKLQHYTDSYLGFLPWEKKKYF  
QDLLDEEESLKTQLAYFTDSKNTGRQLKDTFADSLRYVNKILNSKFGFTSRKVP AHMPHM  
IDRIVMQELQDMFPEEFDKTSFHKVRHSEDMQFAFSYFYILMSAVQPLNISQVFDEVDTD  
QSGVLSREIRTLATRIHELPLSLQDLTGLEHMLINCSKMLPADITQLNNIPPTQESYYD  
PNLPPVTKSLVTNCKPVTDKIHKAYKDKNKYRFEIMGEEIIAFKMIRTNVSHVVGQLDDI  
RKNPRKFVCLNDNIDHNHDKAQTVKAVLRDFYESMFPIPSQFELPREYRN RFLMHMELQE  
WRAYRDKLKFWTHCVLATLIMFTIFSFAEQLIALKRKIFPRRRIHKEASPNRIRV

>sp|Q8NOV5|GNT2A\_HUMAN N-acetylactosaminide beta-1,6-N-acetylglucosaminyl-transferase  
OS=Homo sapiens GN=GCNT2 PE=1 SV=1

MMGSWKHCLFSASLISALIFV FVYNTELWENKRFLRAALSNASLLAEACHQIFEGKV FYP  
TENALKTTLDEATCYEYMRSHYVTETLSEEEAGFPLAYTVTIHKDFGTFERLFRAIYMP  
QNVYCVHLDQKATDAFKGAVKQLLSCFPNAFLASKKESVYVGGSRLQADLNCLEDLVAS  
EVPWKYVINTCGQDFPLKTNREIVQYLKGFKGKNITPGVLPPDHAVGR TKYVHQELLNHK  
NSYVIKTTKLKTPPHDMVIYFGTAYVALTRDFANFVLQDQLALDLSWSKDTYSPDEHF  
WVTLNRI PGVPGSMPNASWTGNLRAIKWSDMEDRHGGCHGHYVHGIC IYGNGLKWL VNS  
PSLFANKFELNTYPLTVECLELRHRERTLNQSETAIQPSWYF

>sp|Q86XS8|GOLI\_HUMAN E3 ubiquitin-protein ligase RNF130 OS=Homo sapiens GN=RNF130 PE=1  
SV=1

MSCAGRAGPARLAALALLTCSLWPARADNASQEYYTALINVTVQEPGRGAPLTFRIDRGR  
YGLDSPKAEVRGQVLAPLPLHG VADHLGCDPQTRFFVPPNIKQWIALLRGNCTFKEKIS  
RAAFHNAVAVVIYNKSKEEPVTMTHPGTGDI IAVMITELRGKDILSYLEKNISVQMTIA  
VGTRMPKPNFSRGS LVFVSISFIVLMISSAWLIFYFIQKIRYTNARDRNQRR LGDAAKK  
AISKL TTRTVKKGDKETDPDFDHCAVCIESYKQNDVVRILPCKHVFHKSCVDPWLSEHCT  
CPMCKNLNLKALGIVPNLPCTDNVAFDMERLTRTQAVNRRSALGDLAGDNSLGLEPLRTS  
GISPLPQDGELTPRTGEINIAVTKEWFI IASFGLLSALTLCYMIIRATASLNANEVEWF

>sp|Q96CH1|GP146\_HUMAN Probable G-protein coupled receptor 146 OS=Homo sapiens GN=GPR146  
PE=2 SV=1

MWSCSWFNGTGLVEELPACQDLQLGLSLLSLLGLVVGVPVGLCYNALLVLANLHASKASMT  
MPDVYFVNMAVAGLVLSALAPVHLLGPPSSRWALWSVGGEVHVALQIPFNVSSLVAMYST  
ALLSLDHYIERALPRTYMASVYNTRHVCGFVWGGALLTSFSSLLFYICSHVSTRALECAK  
MQNAEAADATLVFIGYVVPALATLYALVLLSRVRREDTPLDRDTGRLEPSAHRLLVATVC  
TQFGLWTPHYLILLGHTVVISRGKPVDAHYLGLLHFVKDFSKLLAFSSSFVTPLLYRYMN  
QSFPSKLQRLMKKLPCGDRHCSPDHMGVQQVLA

>sp|Q8NGU9|GP150\_HUMAN Probable G-protein coupled receptor 150 OS=Homo sapiens GN=GPR150  
PE=3 SV=1

MEDLFSPSILPPAPNISVPILLGWGLNLTGQGAPASGPPSRRVRLVFLGVILVVAVAGN  
TTVLCRLCGGGGPWAGPKRRKMDFLLVQLALADLYACGGTALSQAWELLGEPRAATGDL  
ACRFLQLLQASGRGASAHLLVLLIALERRRAVRLPHGRPLPARALAALGWLALLLALPPA  
FVVRGDSPLPPPPPTSLQPGAPPAARAWPGERRCHGIFAPLPRWHLQVYAFYEAVAG  
FVAPVTVLGVACGHLLSVWRRHRPQAPAAAAAPWSASPGRAPAPSALPRAKVQSLKMSLLL  
ALLFVGCELPYFAARLAAAWSSGPAGDWEGEGLSAALRVVAMANSALNPFVYLFFQAGDC  
RLRRQLRKRLGSLCCAPQGGAEDEEGPRGHQALYRQRWPHPHYHARREPLDEGGLRPPP  
PRPRPLPCSCESAF

>sp|Q8TDV0|GP151\_HUMAN Probable G-protein coupled receptor 151 OS=Homo sapiens GN=GPR151  
PE=2 SV=1

MLAAAFADSNSSSMNVSAHLHFAGGYLPSDSQDWRTIIPALLVAVCLVGVGNLCVIGI  
LLHNAWKGKPSMIHSLILNLSLADLSLLFSAPIRATAYSKSVWDLGWVCKSSDWF IHT  
CMAAKSLTIVVAVKCFMYASDPKQVSIHNYTIWSVLVAIWTVASLLPLPEWFFSTIRH  
HEGVEMCLVDVPAVAEEFMSMFGLYPLLAFLPLFFASFYFWRAYDQCKKRGTKTQNL  
NQIRSKQVTVMLLSIAIISALLWLPEVVAWLWVWHLKAAGPAPPQGFIALSQVLMFSISS  
ANPLIFLVMSEEFREGLKGVKWMITKKPPTVSESQETPAGNSEGLPDKVPSPESPASIP  
EKEKPSSPSSGKGKTEKAEIPILPDVEQFWHERDTPVPSVQDNDPIPWEHEDQETGEGVK

>sp|Q8N6U8|GP161\_HUMAN G-protein coupled receptor 161 OS=Homo sapiens GN=GPR161 PE=2 SV=1

MSLNSSLSCRKELSNLTEEKGEGGVIIITQFIAIIVITIFVCLGNLVIVVTLYKKSYYLT  
LSNKFVFSLTLSNFLSVLVLPFVVTSSIRREWIFGVVWCNFSALLYLLISSASMLTLGV  
IAIDRYYAVLYPMVYPMKITGNRAVMALVYIWLHSLIGCLPPLFGWSSVEFDEFKWMCVA  
AWHREPGYTAFWQIWCALFPFLVMLVCYGFIFRVARVKARKVHCGTVVIVEEDAQRTGRK  
NSSTSTSSSGSRRNAFQGVVYSANQCKALITILVVLGAFMVTWGPYMVVIASEALWGKSS  
VPSLETWATWLSFASAVCHPLIYGLWNKTVRKELGMCFGDRYYREPQVQRQTSRLFS  
ISNRITDLGLSPHLTALMAGGQPLGHSSSTGDTGFSCSQDSGTMMLLEDYTSDDNPPSH  
CTCPPKRRSSVTFEDEVEQIKEAAKNSILHVKAEVHKSLSYAAASLAKAIEAEAKINLFG  
EEALPGVLVTARTVPGGGFGGRRGSRTLVSQRLQLQSIEEGDVLAEEQR

>sp|Q14439|GP176\_HUMAN Probable G-protein coupled receptor 176 OS=Homo sapiens GN=GPR176  
PE=2 SV=1

MGHNGSWISPNASEPHNASGAEEAGVNRSALGEFGAQLYRQFTTTVQVVFIFIGSLLGNF  
MVLWSTCRTTVFKSVTNRFIKNLACSGICASLVCVPFDIILSTSPHCCWWIYTMFLCKV  
KFLHKVFCSVTILSFPAIALDRYYSVLYPLERKISDAKSRELVMYIWAHAVVASVPVFAV  
TNVADIYATSTCTEVWSNSLGHLYVVLVYNITTVIVPVVVVFLFLILIRRALSSAQKKKV  
IIAALRTPQNTISIPYASQREAEHLATLLSMVMVFILCSVPYATLVVYQTVLNVPDTSVF

LLLTAVWLPKVSLLANPVLFLTVNKSVRKCLIGTLVQLHHRYSRNNVSTGSGMAEASLE  
PSIRSGSQLLEMFHIGQQQIFKPTEDDEESEAKYIGSADFQAKEIFSTCLEGEQGPQFAP  
SAPPLSTVDSVSQVAPAAPVEPETFPDKYSLQFGFGPFELPPQWLSETRNSKKRLLPPLG  
NTPEELIQTKVPKVGRVERKMSRNNKVSIFPKVDS

>sp|Q8IXQ4|GPAM1\_HUMAN GPALPP motifs-containing protein 1 OS=Homo sapiens GN=GPALPP1 PE=1  
SV=1

MARDLIGPALPPGFKARGTAEDEERDPSPVAGPALPPNYKSSSSDSSDSEDESSSLYEEG  
NQESEEDDSGPTARKQRKNQDDDDDDGGFGPALPPGFKKQDDSPRPPIIGPALPPGFI  
KSTQKSDKGRDDPGQETDSEDEDIIGPMPAKGPVNYNVTTEFEKRAQRMKEKLTGDD  
DSSKPIVRESWMTLPPMKDFGLGPRTFKRRADDTSGDRSIWTDTPADRERKAKETQEA  
RKSSSKKDEEHILSGRDKRLAEQVSSYNESKRSESLMDIHHKKLKSAAEDKNKPQERIP  
FDRDKDLKVNRFDEAQKKALIKKSRELNTRFSHGKGNMFL

>sp|P35052|GPC1\_HUMAN Glypican-1 OS=Homo sapiens GN=GPC1 PE=1 SV=2

MELRARGWLLCAAAALVACARGDPASKSRSCGEVRQIYGAKGFSLSDPQAEISGEHLR  
ICPQGYTCCTSEMEENLANRSHAELETALRDSSRVLQAMLATQLRSFDDHFQHLLNDSER  
TLQATFPGAFGELYTQNARAFRDLYSELRLYYRGANLHLEETLAEFWARLLERLFKQLHP  
QLLLPDDYLDCLGKQAEALRPFGEAPRELRLRATRAFAARSFVQGLGVASDVVRKVAQV  
PLGPECSRAVMKLVYCAHCLGVPGARPCPDYCRNVLKGCLANQADLDAEWRNLLDSMVL  
TDKFWGTSGVESVIGSVHTWLAEAINALQDNRTLAKVIQCGGNPKVNPQGPPEEKRR  
RGKLAPRERPPSGTLEKLVSEAKAQLRDVQDFWISLPGTLCSEKMALSTASDDRCWNGMA  
RGRYLPVEMGDGLANQINNPEVEVDITKPDMTIRQQIMQLKIMTNRLRSAYNGNDVDFQD  
ASDDGSGSGSGDGLDDLC SRKVS RKSSSSRTPLTHALPGLSEQEGQKTSAA SCPQPPTF  
LLPLLLFLALTVARPRWR

>sp|Q5T6X5|GPC6A\_HUMAN G-protein coupled receptor family C group 6 member A OS=Homo  
sapiens GN=GPRC6A PE=1 SV=1

MAFLIILITCFVILATSQPCQTPDDFVAATSPGHIIIGGLFAIHEKMLSSEDSPRRPQI  
QECVGFEISVFLQTLAMIHSIEMINNSTLLPGVKLGYEIDTCTEVTVAMAATLRLFSKF  
NCSRETVEFKCDYSSYMPRVKAVIGSGYSEITMAVSRMLNLQLMPQVGYESTAEILSDKI  
RFPSFLRTVPDSDFHIKAMAHLIQKSGWNWIGIITDDDDYGRALNTFIIQAEANNVCIA  
FKEVLP AFLSDNTIEVRINRTLKKIILEAQVNVIVVFLRQFHVFDLFNKA IEMNINKMWI  
ASDNWSTATKITTIPNVKKIGKVVGFAFRGNISSFHSFLQNLHLLPSDSHKLLHEYAMH  
LSACAYVKD TDLSQCFNHSQRTLAYKANKAIERNFVMRNDFLWDYAEPGLIHSIQLAVF  
ALGYAIRDLCQARDCQNPNAFQPWELLGVLKNVTFTDGWNSFHFDAHGDLNTGYDVVLWK  
EINGHMTVTKMAEYDLQNDVFIIPDQETKNEFRNLKQIQSKSKECSPGQMKTTRSQHI  
CCYECQNCPENHYTNQTDMPHCLLCNNKTHWAPVRSTMCFEKEVEYLNWNSLA ILLIL  
SLLGIIFVLVVGIIFTRNLNTPVVKSSGGLRVCYVILLCHFLNFASTSFFIGEPQDFTCK  
TRQTMFGVSFTLCISCILT KSKILLAFSFDPKLQKFLKCLYRPILII FTCTGIQVVICT  
LWLIFAAPTVEVNVSLPRVIIICEEGSILAFGTMLGYIAILAFICFIFAFKGKYENYNE  
AKFITFGMLIYFIAWITFIPIYATTFGKYVPAVEIIVILISNYGILYCTFIPKCYVIICK  
QEINTKSAFLKMIYSYSSHSVSSIALSPASLDSMSGNVMTNPPSSSGKSATWQKSKDLQA  
QAFAHICRENATSVSKTLPRKRMSSI

>sp|Q8N335|GPD1L\_HUMAN Glycerol-3-phosphate dehydrogenase 1-like protein OS=Homo sapiens  
GN=GPD1L PE=1 SV=1

MAAAPLKVCIVGSGNWGSAVAKIIGNNVKKLQKFASTVKMWVFEETVNGRKLTDIINNDH

ENVKYLPGHKLPENNVAMSNLSEAVQDADLLVFVIPHQFIHRICDEITGRVPKKALGITL  
IKGIDEGPEGLKLISDIIREKMGIDISVLMGANIANEVAAEKFCEITIGSKVMENGLLFK  
ELLQTPNFRITVDDADTVELCGALKNIVAVGAGFCDGLRCGDNTKAAVIRLGLMEMIAF  
ARIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAEAFARTGKTIEELEKEMLNGQKLQ  
GPQTSAEVYRILKQKGLLDKFPLFTAVYQICYESRPVQEMLSCLQSHPEHT

>sp|B7ZAQ6|GPHRA\_HUMAN Golgi pH regulator A OS=Homo sapiens GN=GPR89A PE=1 SV=2

MSFLIDSSIMITSQILFFGFGWLFMRQLFKDYEIRQYVVQVIFSVTFAFSCTMFELIIF  
EILGVLNSSSRYPFHWMNLCVILLILVFMVPFYIGYFIVSNIRLLHKQRLLFSCLLWLT  
MYFFWKLGDPPILSPKHGILSIEQLISRVGVIGVTLMALLSGFGAVNCPYTYMSYFLRN  
VTDTDILALERRLLQTMDMIISKKKRMAMARRTMFQKGEVHNKPSGFWGMIKSVTTSASG  
SENLTLIQQEVDALLESRLQFLETADLYATKERIEYSKTFKGKYFNFLGYFFSIYCVWK  
IFMATINIVFDRVGKTDPTVRGIEITVNYLGIQFDVKFWSQHISFILVGIIIVTSIRGLL  
ITLTKFFYAISSSKSSNVIVLLAQIMGYFVSSVLLIRMSMPLEYRTIITEVLGELQFN  
FYHRWFDVIFLVSALSSILFLYLAHKQAPEKQMAP

>sp|Q13491|GPM6B\_HUMAN Neuronal membrane glycoprotein M6-b OS=Homo sapiens GN=GPM6B PE=1 SV=2

MKPAMETAAEENTEQSQERKGCCECCIKCLGGVPYASLVATILCFSGVALFCGCGHVALA  
GTVAILEQHFSTNASDHALLSEVIQLMQYVIYGIASFFFLYGIILLAEFGYTTSAVKELH  
GEFKTTACGRCISGMFVFLTYVLGVAVLGVFGFSAVPVFMFYNIWSTCEVIKSPQTNGTT  
GVEQICVDIRQYGIIPWNAFPGKICGSALENICNTNEFYMSYHLFIVACAGAGATVIAL  
IYMMATTYNYAVLKFSREDCCTKF

>sp|Q9UHW5|GPN3\_HUMAN GPN-loop GTPase 3 OS=Homo sapiens GN=GPN3 PE=1 SV=2

MPRYAQLVMGPAGSGKSTYCATMVQHCEALNRSVQVVNLDPAAEHFNYSVMADIRELIEV  
DDVMEDDSLRFPGNGGLVFCMEYFANNFDWLENCLGHVEDDYILFDCPGQIELYTHLPVM  
KQLVQLEQWEFRVCGVFLVDSQFMVESFKFISGILAAALSAMISLEIPQVNIMTKMDLLS  
KKAKKEIEKFLDPDMSLLEDSTDLRSKKFKKLTAKICGLIDDYSMVRFLPYDQSDEES  
MNIVLQHIDFAIQYGEDLEFKPEKEREDESSMFDEYFQECQDE

>sp|Q8NDV2|GPR26\_HUMAN G-protein coupled receptor 26 OS=Homo sapiens GN=GPR26 PE=1 SV=1

MNSWDAGLAGLLVGTMGVSLLSNALVLLCLLHSAIDRRQAPALFTLNLTCGNLLCTVVM  
PLTLAGVVAQRQPAGDRLCRLAAFLDTFLAANSMLMAALSIDRWAVVFPLSYRAKMRL  
RDAALMVAYTWLHALTFPAAALALSWLGFHQLYASCTLCRRPDERLRFVFTGAFHALS  
FLLSFVVLCTYLKVLKVARFHCKRIDVITMQTLVLLVDLHPSVRERCLQEKRRRQRAT  
KKISTFIGTFLVCFAPYVITRLVELFSTVPIGSHWGVLSKCLAYSKAASDPFVYSLLRHQ  
YRKSCKEILNRLHRRSIHSSGLTGDSHSQNILPVSE

>sp|000270|GPR31\_HUMAN 12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid receptor OS=Homo sapiens GN=GPR31 PE=2 SV=2

MPFPNCSAPSTVVATAVGVLLGLECGLLGNAVALWTFVFRVRVWKPYAVYLLNLALAD  
LLLAACLPFLAAFYLSLQAWHLGRVGCWALHFLDLRSVGMFLAAVALDRYLRVVHPR  
LKVNLSPQAALGVSGLVWLLMVALTCPGLLISEAAQNSTRCHSFYSRADGSFSIIWQEA  
LSCLQFVLPFGLIVFCNAGIIRALQKRLREPEKQPKLQRAQALVTLVVVLFALCFLPCFL  
ARVLMHIFQNLGSCRALCAVAHTSDVTGSLTYLHSLNPVVYCFSSPTFRSSYRRVFHTL  
RGKGQAAEPPDFNPRDSYS

>sp|P46089|GPR3\_HUMAN G-protein coupled receptor 3 OS=Homo sapiens GN=GPR3 PE=1 SV=1

MMWGAGSPLAWLSAGSGNVNVSSVGAEGPTGPAAPLPSPKAWDVVLCSGTLVSCENAL



VVAIIVGTPAFRAPMFLLVGSLAVADLLAGLGLVLHFAAVFCIGSAEMSLVLVGLAMAF  
TASIGSLLAITVDRLSLYNALTYSETTVTRTYVMLALVWGALGLGLLPVLAWNCLDG  
LTTCGVVYPLSKNHLVVLAI AFFMVF GIMLQLYAQICRIVCRHAQQIALQRHLLPASHYV  
ATRKGIATLAVVLGAFAACWLPFTVYCLLGDHSPPLYTYLTLLPATYNSMINPIIYAFR  
NQDVQKVLWAVCCCCSSSKIPFRSRSPSDV

>sp|Q8TAA5|GRPE2\_HUMAN GrpE protein homolog 2, mitochondrial OS=Homo sapiens GN=GRPEL2  
PE=1 SV=1

MAVRSLWAGRLRVQRLLAWSAAWESKGWPLPFSTATQRTAGEDCRSEDPPDELGPPLAER  
ALRVKAVKLEKEVQDLTVRYQRAIADCENIRRTQRCVEDAKIFGIQSFCKDLVEVADIL  
EKTTECISEESEPEDQKLTLEKVFRLGLLLEAKLSVFAKHGLEKLTPIGDKYPDHEHEL  
ICHVPAGVGVQPGTVALVRQDGYKLHGRTIRLARVEVAVESQRRL

>sp|P07492|GRP\_HUMAN Gastrin-releasing peptide OS=Homo sapiens GN=GRP PE=1 SV=2

MRGRELPLVLLALVLCLAPRGRAVPLPAGGGTVLTKMYPRGNHWAVGHLMGKKSTGESS  
VSEKSLKQQLREYIRWEEAARNLLGLIEAKENRNHQPPQPKALGNQQPSWDESSNFK  
DVSGSGKVGRLSAPGSQREGRNPQLNQQ

>sp|Q9BYG8|GSDMC\_HUMAN Gasdermin-C OS=Homo sapiens GN=GSDMC PE=1 SV=3

MPSMLERISKNLVKEIGSKDLTPVKYLLSATKLRQFVILRKKKDSRSSFWEQSDYVPVEF  
SLNDILEPSSSVLETVVTGPFHFSDIMIQQHKADMGVNVGIEVSVSGEASVDHGCSEFQ  
IVTIPSPNLEDFQKRKLLDPEPSFLKECRRRGDNLVYVTEAVELINNTVLYDSSSVNIG  
KIALWITYGKGQGGESLRVKKKALTQKGMVMAYKRKQLVIKEKAILISDDDEQRTFQD  
EYEISEMVGCAARSEGLLPSTFTISPTLFNASSNDMKLPFLTQQFLSGHLPKYEQV  
HILPVGRIEEPFWQNFKHLQEEVFQKIKTLAQLSKDVQDVMFYSLAMLRDRGALQDLMN  
MLELDSSGHLDGPGGAILKKLQQDSNHAWFNPKDPILYLLEAIMVLSDFQHDLLACSMK  
RILLQQQLVRSILEPNFRYPWSIPFTLKPELLAPLQSEGLAITYGLLEECGLRMELDNP  
RSTWDVEAKMPLSALYGTLSLLQQLAEA

>sp|O15217|GSTA4\_HUMAN Glutathione S-transferase A4 OS=Homo sapiens GN=GSTA4 PE=1 SV=1

MAARPKLHYPNGRGRMESVRWVLAAGVEFDEEFLETKEQLYKLQDGNHLLFQQVPMVEI  
DGMKLVQTRSILHYIADKHNLFGKNLKERTLIDMYVEGTLDLLELLIMHPFLKPDDQQKE  
VVNMAQKAIIRYFPVFEEKILRHGQSFLVGNQLSLADVILLQTILALEEKIPNILSAFPF  
LQEYTVKLSNIPTIKRFLEPGSKKKPPPDEIYVRTVYNIFRP

>sp|P21266|GSTM3\_HUMAN Glutathione S-transferase Mu 3 OS=Homo sapiens GN=GSTM3 PE=1 SV=3

MSCESSMVLGYWDIRGLAHAIRLLEFTDTSYEEKRYTCGEAPDYDRSQWLDVKFKLDLD  
FPNLPYLLDGKNKITQSNAILRYIARKHNMCGETEEKIRVDIIENQVMDFRTQLIRLCY  
SSDHEKLPQYLEELPGQLKQFSMFLGKFSWFAGEKLTFFVDFTYDILDQNRIFDPKCLD  
EFPNLKAFMCRFEALEKIAAYLQSDQFCKMPINNMAQWGNKPV

>sp|P51841|GUC2F\_HUMAN Retinal guanylyl cyclase 2 OS=Homo sapiens GN=GUCY2F PE=2 SV=2

MFLGLGRFSRLVLWFAAFRKLGHGLASAKFLWCLCLLSVMSLPQQVWTLPYKIGVVG  
WACDSLFSKALPEVAARLAIERINRDPFDSLVSFEYVILNEDCQTSRALSSFISHHQA  
SGFIGPTNPGYCEASLLGNSWDKGFISWACVNYELDNKISYPTFSRTLPSPIRVLTVM  
KYFQWAHAGVISSEDIWVHTANRVASALRSHGLPVGVVLTGQDSQSMRKALQRIHQAD  
RIRIIIMCHSALIGGETQMHLLECAHDLKMTDGTYYFVPYDALLYSLPYKHTPYRVLRN  
NPKLREAYDAVLTITVESQEKTFYQAFTEAAARGEIPEKLEFDQVSPPLFGTIYNSIYFIA  
QAMNNAMKENGQAGAASLVQHSRNMQFHGFNQLMRTDSNGNGISEYVILDTNLKEWELHS  
TYTVDMEMELLRFGGTPIHFPGGRPPRADAKCWFAGKICHGGIDPAFAMMVCLTLIAL

LSINGFAYFIRRRINKIQLIKGPNRILLTLEDVTFINPHFGSKRGSRASVSFQITSEVQS  
GRSPRLSFSSGSLTPATYENSNIAYEGDWVWLKKFSLGDFGDLKSIKSRASDVFEMMKD  
LRHENINPLLGFYDSGMFAIVTEFCSRGSLEDILTNDQVKLDWMFKSSLLDLIKGMKY  
LHHRFVHGRLSRNCVVDGRFVLKVTDYGFNDILEMLRLEEESMEELLWTAPELLRA  
PRGSRLGSFAGDVYSFAIMQEVVMVRGTPFCMMDLPAQEIIINRLKKPPPVYRPVVPPEHA  
PPECLQLMKQCWAEAAEQRPTEIFNQFKTFNKGKKTNIIDSMLRMLEQYSSNLEDLIR  
ERTEELEIEKQKTEKLLTQMLPPSVAESLKKGCTVEPEGFDLVTLYFSDIVGFTTISAMS  
EPIEVVDLLNDLYTLFDAIIGSHDVYKVETIGDAYMVASGLPKRNGSRHAAEIANMSLDI  
LSSVGTfKMRHMEVPVRIRIGLHSGPVVAGVVGLTMPRYCLFGDTVNTASRMESTGLPY  
RIHVSLSVTITLQNLSEGYEVELRGRTELKKGTEETFWLIGKKGFMKPLVPPPPVDKDG  
QVGHGLQPVEIAAFQRRKAERQLVRNKP

>sp|Q96NT3|GUCD1\_HUMAN Protein GUCD1 OS=Homo sapiens GN=GUCD1 PE=1 SV=2

MRTEAEAGPPLEPGDFVQLPVPVIQQLYHWDCLACSRMVLRYLGQLDDSEFERALQKL  
QLTRSITWTIDLAYLMHHFGVRHRFCTQTLGVDKGYKNQSFYRKHFDETRVNQLFAQAK  
ACKVLVEKCTVSVKDIQAHLAQGHVAIVLVNSGVLHCDLCSSPVKYCCFTPSGHHCFCRT  
PDYQGHFIVLRGYNRATGCIFYNNPAYADPGMCSTSI SNFEEARTSYGTDEDILFVYLD

>sp|Q15486|GUSP1\_HUMAN Putative inactive beta-glucuronidase-like protein SMA3 OS=Homo sapiens GN=GUSBP1 PE=5 SV=3

MDRNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGA  
NLWWPYLMHEHPASLYSWEDGDCSHQSLGPLACDLCQLHLRSRQGGSVCGCDPCEQLL  
LLVSQLRAPGVDSAAAGRPV

>sp|Q7Z2Y8|GVIN1\_HUMAN Interferon-induced very large GTPase 1 OS=Homo sapiens GN=GVINP1 PE=2 SV=2

MATGEHTPDDPLLRGKRRQDLQEMLREVGLDVEYWLPKLQEHLGVTCAQALQHLDKNNLK  
KLKSQTQHPWEKLLNLSSHKSLSALLQESQVERAKRKQKQAEQALQELRDLLTEGKQRQE  
EAVRTREAELRQAMDIPPEYWPSPPEPLRELMENLQRQLNLMKWTLCHRQNLPRDVRW  
ASGGLALQGIYKASHQRGLTEKREELLSVPKEFLLGPQQGTQMKTEFTSPQAEFMFTQ  
MVEKLGFRLLTSAKDGNGWFSLEAGLDHSHKHPESKETQQSSSENSYFCSTKFSYIPLASC  
HFPIDQLQLSKPAVQELKCI EELLSQTTNPDRFSLLRHRIINFFHRFGSHVNQGPHLGG  
IYWWKAISEGYCTEQLAEVRQQSAEALDIFIRDSYSGFGVKAAGVNVSDSHSKTATQTK  
TSQNLQTKVQLSVAQTGGPPEADGLVQWKAGLIASNQTCVDRGLQLVPVWDIILSSHR  
SNFKDPLQVANFLKDSYALTSTITAQIQNGEELLSAGKEARVFLEDVKSWEVSDPEEQLK  
KLINFMKMLSQKLKSYDTWINICLTDSLQNFLVNTINFCKKSSYKTKCIKSHLRSLLDP  
HIYRVTNFPQAHFIMQWIFQSDSEQEQVNISQFSQLIEILKETQNNLMEVKVKSSEPETV  
EEAQRKSTYEVSLALSCFLNYLQKTEQTDQLLLLSIAAAAGYHVINNTFQSLGCELS  
FLLEDQMATAQNKYQELKNICSYRAQAFVLVTGLTATVGDTAISSEKTQRMSLMRHHMGQ  
SLSKEVAHVLTTPGADHDWENLEKDLRLRINGDYEEVTISLQMEEVSKQSLFYGKKQPH  
EPHDNENNKWEMIKNGAFLDLLQHLGLEHYYPKKLSKANFHLYKTSVYNTQPSSEQELP  
FYFLQKLLMMDYELRYLVFKDDRNTHEQVHPNASDQEDEAFDPYENFFEDSDSPTKSSST  
EPSPHIHPVDIQMTIFHCADNFARQYILAKLSTCQFALPLLVPNPCTSQIEFSLWSLRQI  
TRSWQEARKSPKGKNYYKNQMCVSTSVSFVRVGNGLSASKSQIMNCLLSKRKHDVFF  
HRHCTGSRKDCLLMGMVEICWFPCGGEDEDRFDNCVTFNLHGDAKEHEQQLSFLKEVS  
TVIVVLMASDDNEGNRKIVRNWLQSSRPLICLLDDKEATMTNISGQRMRMGIKNRNEAE  
LTEELTTTIRHLLSDTALSLEDCSQIAHQQGFLIDEDQRDCKEAKEKAQALMAFLGKM

KLSQLKEKLLPLQGQLWHHWCKKDKELYHLREKGNQSIEQHKSEIETDKQIIRHEQLARA  
LPLNDLMQSVLQFLQEHSEIHTKLYFLQWLSVFLDKLTAGHLEELHEKQKYWWSLVQTVK  
QKAPNSHSLICLQSEIEAISTEISDCTLGIEQLIREVGQIYEALEEASSIKKIFFSLPQI  
AADLMISGVPIELMDGDAAYVPLTWVAAVFDKVSEKLGDKRFLVLSILGLQSSGKSTVLN  
ALFGLQFTVSAGKCTQGAYMQLLKVEETFTEELGDFVLAVDTEGLRAPEHSNKS KDRDN  
ELVTFVIGLANLTLINIFGENPSEM QDILQIVVQAFLRMKQVKIFPSCLFVHQNVGEATA  
TDQTM DGRRRLEQKLD EMAAIAAEQE QCLDVTCFSDVIRFDVNTHVYFAHLWDGNPPMA  
PPNPRYSHNVQQLKSRI LMTATQESRGNIMKISDVKSRVQDLWRGLMNENFIFSFRNTQE  
VMAMNKLETMYNHW TWELRSHVLGLQNQLINQIQNGKIQTLEASTFEVLVTEKYEVVKQE  
LEKYFNEGPCSKILIQCKANFENKLIVLKEKLISDSKRQANELISFKNQS QERLNKKKTD  
YEKELLEKSRKLALTVKGKELSEEELHEKFNQLWKKWVCDVSTTLPQVTEPDIDL DSENI  
LWEYFNKNTNVVGLLTNSAEKFQINYDKHIKVNKKYNHIPMTLTVFEKEFINMTTDYIVS  
RFNKIINN MWKQCGYNPNYFHEILKTIIEEVKSASTQKRYTFTNTFIIDL CVCLFQRAR  
ENFKEMHRAFKRANDPVNYLESKKDDFFT SFKISCQGATS IKTFVDVLWYKLTPAVSTTI  
WEDMTFKIAGDMRATCPAFNGNRTNLEKHILFSLAEENFDNYWEYLHNSKSFFRSYIKN  
HIKRYCSDNGGEKMKTFFEKSLIDIKNTILSAIHESTSVAKDKSSTASEWDLFCDC LGC  
NLIFPRRDLISIEHQEIKHTEFLKEAMSAALDLTMKKIEQNYSSKPIEAMVSKIEKMLSE  
HLCGCWKQCPSCGAICTNTIPTHEGDHSVPFHRPQAVNGEEWYETDDFVIDCCTSLV ASD  
CLLVLRDGRNFPFKNYRQAGGDYAMWSITPDTSIQLYWKWFVSHFRSNLEEKYQKKFAGK  
GKIPNAWAKITKQDVLEDLKKQ

>sp|Q92522|H1X\_HUMAN Histone H1x OS=Homo sapiens GN=H1FX PE=1 SV=1

MSVELEEALPVTTAEGMAKKVTKAGGSAALSPSKKRKNSKKKNQPGKYSQLVVETIRRLG  
ERNGSSLAKIYTEAKKVPWFDQQNGRTYLYKYSIKALVQNDTLLQVKGTGANGSFKLN RKK  
LEGGGERRGAPAAATAPAPTAHKAKKAAPGAAGSRRADKKPARGQKPEQRSHKKGAGAKK  
DKGGKAKKTAAGGKKVKKAAPSVPKVPGRK

>sp|Q93077|H2A1C\_HUMAN Histone H2A type 1-C OS=Homo sapiens GN=HIST1H2AC PE=1 SV=3

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLA AVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLGRVTIAQGGVLPNIQAVLLPKK  
TESHHKAKGK

>sp|Q9H9Y4|GPN2\_HUMAN GPN-loop GTPase 2 OS=Homo sapiens GN=GPN2 PE=1 SV=2

MAGAAPTAFQGQAVIGPPGSGKTTYCLGMSEFLRALGRRVAVVNLDPANEGLPYECAVDV  
GELVGLGDVMDALRLGPNGLLYCMEYLEANLDWLRAKLDPLRGHYFLFDCPGQVELCTH  
HGALRSIFSQMAQWDLRLTAVHLVDSHYCTDPAKFISVLCTSLATMLHVELPHINLLSKM  
DLIEHYGKLAFNLDYYTEVLDLSYLLDHLASDPFFRHYRQLNEKLVQLIEDYSLVSFIPL  
NIQDKESIQRVLQAVDKANGYCFRAQEQRSLEAMMSAAMGADFHFSSTLGIQEKYLAPSN  
QSVEQEAMQL

>sp|Q14330|GPR18\_HUMAN N-arachidonyl glycine receptor OS=Homo sapiens GN=GPR18 PE=2 SV=2

MITLNNQDQVPFNS SHPDEYKIAALVFYSCIFIIGLFVNITALWVFSCTTKRRTVTIY  
MMNVALVDLIFIMTLPFMFYAKDEWPFGEYFCQILGALTVFYPSIALWLLAFISADRY  
MAIVQPKYAKELKNTCKAVLACGVWIMTLTTTTPLLLLYKDPDKDSTPATCLKISDIY  
LKAVNVNLTRLTFFFLIPLFIMIGCYLVIHNL LHGRTSKLPKVKEKSIRIIITLLVQ  
VLVCFMPFHICFAFLMLGTGENSYNPWGAFTTFLMNLSTCLDVILYYIVSKQFQARVISV  
MLYRNYLRSMRRKSFRSGSLRSLSNINSEML

>sp|Q49SQ1|GPR33\_HUMAN Probable G-protein coupled receptor 33 OS=Homo sapiens GN=GPR33  
PE=2 SV=1

MDLINSTDYLINASTLVRNSTQFLAPASKMIIALSLYISSIIGTITNGLYLWVLRFKMKQ  
TVNTLLFFHLILSYFISTMILPFMATSQLQDNHWNFGTALCKVFNGTSLSGMFTSVFFLS  
AIGLDRYLLTLHPVWSQQHRTPRWASSIVLGWISAAALSIPYLIFRETHHDRKGKVTCTQ  
NNYAVSTNWESKEMQASRQWIHVACFISRFLLGFLLPFFIIIFCYERVASKVKERSLFSK  
SKPFKVMMTAISFFVCWMPYHIHQGLLLTTNQSLLELTLILTTLTTSFNTIFSPTLYL  
FVGENFKKVFKKASILALFESTFSEDSSVERTQT

>sp|O43194|GPR39\_HUMAN G-protein coupled receptor 39 OS=Homo sapiens GN=GPR39 PE=1 SV=1

MASPSLPGSDCSQIIDHSHVPEFEVATWIKITLILVYLIIIFVMGLLGNSATIRVTQVLQK  
KGYLQKEVTDHMVSLACSDILVFLIGMPMEFYIIWNPLTSSYTLCKLHTFLFEACSY  
ATLLHVLTLSEFYIAICHPRYKAVSGPCQVKLLIGFVWVTSALVALPLLAMGTEYPL  
VNVPSHRGLTCNRSSTRHHEQPETSNMISICTNLSSRWTFQSSIFGAFVVYLVVLSVAF  
MCWNMMQVLMKSQKGLAGGTRPPQLRKSESEESRTARRQTIIFLRLIVVTLAVCWMPNQ  
IRRIMAAAKPKHDWTRSYFRAYMILLPFSETFFYLSSVINPLLYTVSSQQFRRVFVQVLC  
CRLSLQHANEKRLRVHAHSTDSARFVQRPLLFASSRRQSSARRTEKIFLSTFQSEAEPEQ  
SKSQSLSELEPNNGAKPANSAAENGFEHEV

>sp|O15529|GPR42\_HUMAN G-protein coupled receptor 42 OS=Homo sapiens GN=GPR42 PE=1 SV=1

MDTGPDSYFSGNHWFVFSVYLLTFLVGLPLNLLALVVVFGKLRCRPVAVDVLLLNTAS  
DLLLLLFLPFMVEAANGMHWPLPFILCPLSGFIFFTTIYLTALFLAAVSIERFLSAHP  
LWYKTRPRLGQAGLVSVACWLLASAHCSVVYVIEFSGDISHSQGTNGTCYLEFWKDLAI  
LLPVRLEMAVVLVFPVPLIITSYCYSRLVWILGRGGSHRRQRRVAGLVAATLLNFLVCFGP  
YNVSHVVGYICGESPVWRIYVTLSTLNSCVDPFVYFSSSGFQADFHELLRRLCGLWGQ  
WQQESSMELKEQKGGEQADRPAERKTSEHSQGGTGGQVACAEN

>sp|Q96I76|GPTC3\_HUMAN G patch domain-containing protein 3 OS=Homo sapiens GN=GPATCH3  
PE=2 SV=1

MAVPGAEAAAATVYLVVSGIPSVLRSALRSYFSQFREERGGGFLCFHYRHRPERAPPQA  
APNSALIPTDPAEGQLLSQTSATDVRPLSTRDSTPIQTRTCCCVISVRGLAQARLIRM  
YSGRRWLDSHGTWLPGRCLIRRLRLPTEASGLSFPFKTRKELQSWKAENEAFTLADLKQ  
LPELNPPVLMPRGNVGTPLRVFLELIRACRLPPRIITQLQLQFPKTGSSRRYGNVPFEYE  
DSETVEQEELVYTAEGEEIPQGTYLADIPASPCGEPEEEVGKEEEEEESHDEDDDRGEW  
ERHEALHEDVTGQERTTEQLFEEIEELKWEKGGSLVFYTDQFQWEEEGDFDEQTADDW  
DVDMSVYYDRDGGDKDARDSVQMRLEQRLRDGQEDGSVIERQVGTFRHTKGIGRKVMER  
QGWAEGQGLGCRCGVPALDSGQHPRCKRGLGYHGEKLQPFQQLKPRRRNGLGLISTI  
YDEPLPQDQTESLLRRQPPTSMKFRTDMAFVRGSSCASDSPSLPD

>sp|Q9UKJ3|GPTC8\_HUMAN G patch domain-containing protein 8 OS=Homo sapiens GN=GPATCH8  
PE=1 SV=2

MADFRSRFNEDRDFQGNHFDQYEEGHLEIEQASLDKPIESDNIGHRLQKHGWKLGGGLG  
KSLQGRDPIPIVVKYDVMGMGRMEMELDYAEDATERRRVLEVEKEDTEELRQKYKDYVD  
KEKAIKALEDLRANFYCELCQYQKHQEFDNHINSYDHAHKQRLKDLKQREFARNVSS  
RSRKDEKKQEKALRRLHELAEQRKQAECAPGSGPMFKPTTVAVDEEGGEDDKDESATNSG  
TGATASCGLGSEFSTDKGPFATVQITNTTGLAQAPGLASQGISFGIKNNLGTPLQKLG  
SFSFAKKAPVKLESIASVFKDHAEEGTSEDGTPDEKSSDQGLQKVGSDGSSNLDGKKE  
DEDPQDGGSLASTLSKLKRMKREEGAGATEPEYYHYIPPAHCKVKPNFPFLFMRAEQM

DGDNTHPKNAPESKKGSSPKPKSCIKAAASQGAECTVSEVSEQPKETSMTEPSEPGSKA  
EAKKALGGDVSDQSLESHSQKVSETQMCESNSSKETSLATPAGKESQEGPKHPTGPFPPV  
LSKDESTALQWPELIFTKAEPSISYSCNPLYFDFKLSRKNKDARTKGTEKPKDIGSSSK  
DHLQGLDPGEPNKSKEVGGEKIVRSSGGRMDAPASGSACSGLNKQEPGGSHGETEDTGR  
SLPSKKERSGKSHRHKKKKKKKSSKHKRKHKADTEEKSSKAESGEKSKKRKKRKKKNK  
SSAPADSERGPKPEPPGSGSPAPRRRRRAQDDSQRRSLPAEEGSSGKKDEGGGSSSQD  
HGGRKHKGELPPSSCQRRAGTKRSSRSSHRSQPSSGDESDDASSHRLHQKSPSYSEEE  
EEEDSGSEHSRSTRSGRRHSSHRSSRRSYSSSSDASSDQSCYSRQRSYSDSYSDYSDR  
SRRHSKRSHSDSDSYASSKHSKRHKYSSDDDYSLSCSQRSRSTRSHTRERSRSGRS  
RSSSCSRSRKRRSRSTTAHSWQRSRYSRDRSRSTRSPSQRSGSRKRSWGHEPSEERHS  
GRRDFIRSKIYRSQSPHYFRSGRGEPPGKKDDGRGDDSKATGPPSQNSNIGTGRGSEGDC  
SPEDKNSVTAKLLEKIQSRKVERKPSVSEEVQATPNKAGPKLKDPPQYFGPKLPPSLG  
NKPVLPLIGKLPATRKPNKKCEESGLERGEQEQQSETEEGPPGSSDALFGHQFPSEETTG  
PLLDPPPEESKSGEATADHPVAPLGTPAHSDCYPGDPTISHNYLPDPSDGTLESLDSSS  
QPGPVESLLPIAPDLEHFPYAPPSGDPSIESTDGAEDASLAPLESQPIITFTPEEMEKY  
SKLQAAQHQHIQQQLLAKQVKAFPASAALAPATPALQPIHIQQPATASATSITTVQHAIL  
QHHAIAAIAIHIHPHPQPLAQVHHIPQPHLTPISLSHLTHSIIPGHPATFLASHPIH  
IIPASAIHPGPFTHFPVPHAALYPTLLAPRPAATAALHLHPLLHPIFSGQDLQHPPSH  
GT

>sp|Q9H3H5|GPT\_HUMAN UDP-N-acetylglucosamine--dolichyl-phosphate N-  
acetylglucosaminophosphotransferase OS=Homo sapiens GN=DPAGT1 PE=1 SV=2

MWAFSELPMPLLINLIVSLLGFVATVTLIPAFRGHFIAARLCGQDLNKTSRQQIPESQGV  
ISGAVFLIILFCFIPFPFLNCFVKEQCKAFPHHEFVALIGALLAICCMIFLGFADDVLNL  
RWRHKLLLPTAASLPLLMVYFTNFGNTTIVVPKFRPILGLHLDLGILYYVYMGLLAVFC  
TNAINILAGINGLEAGQSLVISASIIIVFNLVELEGDCRDDHVFSLYFMIPFFFTTLGLLY  
HNWYPSRVFVGDTFCYFAGMTFAVVGILGHFSKTMLLFMPQVFNFYSLPQLLHIIPCP  
RHRIPRLNIKTGKLEMSYSKFKTKSLSFLGTFILKVAESLQLVTVHQSETEDGEFTECNN  
MTLINLLLKVLPPIHERNLTLTLLQLILGSAITFSIRYQLVRLFYDV

>sp|Q9HCN6|GPVI\_HUMAN Platelet glycoprotein VI OS=Homo sapiens GN=GP6 PE=1 SV=4

MSPSPTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQGPPGVDLYRLE  
KLSSSRYSQDAVLFIAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQP  
GPAVSSGGDVTLCQCTRYGFDQFALYKEGDPAPYKNPERWYRASFPITVTAHSGTYRC  
YSFSSRDPYLWSAPSDPLELVVTGTSVTPSRLPTEPPSPVAEFSEATAELTVSFTNEVFT  
TETSRISITAPKESDSPAGPARQYYTKGNLVRICLGAVILIIILAGFLAEDWHSRRKRLRH  
RGRAVQRPLPPLPLPLTRKSNGGQDGGRQDVHSRGLCS

>sp|P59796|GPX6\_HUMAN Glutathione peroxidase 6 OS=Homo sapiens GN=GPX6 PE=2 SV=2

MFQQFQASCLVLFFLVGFAQQLTKPQNRKVDCKNGVTGTIYEYGALTNGEYIYQFKQFA  
GKHVLFVNVAAYUGLAAQYPELNALQEELKNFGVIVLAFPCNQFGKQEPGTNSEILLGLK  
YVCPGSGFVPSFQLFEKGDVNGEKEQKVFTFLKNSCPPTSDDLGGSSQLFWPEPMKVHDIR  
WNFEKFLVGPDPGVPVMHWFHQAPVSTVKSDILEYLKQFNTH

>sp|P39086|GRIK1\_HUMAN Glutamate receptor ionotropic, kainate 1 OS=Homo sapiens GN=GRIK1  
PE=1 SV=1

MEHGTLLAQPLWTRDTSWALLYFLCYILPQTAPQVLRIGGIFETVENEPVNVEELAFKF  
AVTSINRNRTLMPNTTLTYDIQRINLFDSEASRRACDQLALGVAALFGPSHSSSVSAVQ

SICNALEVPHIQTRWKHPSVDNKDLFYINLYPDYAAISRILDLVLVYNWKTVTVVYEDS  
TGLIRLQELIKAPSRYNIKIRQLPSGNKDAKPLLKEMKKGKEFYVIFDCSHETAAEIL  
KQILFMGMMTEYYHYFFTLDLFDLDLELYRYSGVNMTGFRLLNIDNPHVSSII EKWSME  
RLQAPRPETGLLDGMMTEAALMYDAVYMAIASHRASQLTVSSLQCHRHKPWRLGPRF  
MNL I KEARWDGLTG HITFNKTNGLRKDFDLDIISLKEEGTEKAAGEVSKHLYKVWKKIGI  
WNSNSGLNMTDSNKKSSNITDSLANRTLIVTTILEEPYVMYRKSDKPLYGNDRFEGYCL  
DLLKELSNILGFIIYDVKLVPDGKYGAQNDKGEWNGMVKELIDHRADLAVAPLTITYVREK  
VIDFSKPFMTLGISILYRKPNGTNPGVFSFLNPLSPDIWMYVLLACLGVSCVLFVIARFT  
PYEWYNPHPCNPDSVDVENNFTLLNSFWFGVGMALMQQGSSELMPKALSTRIVGGIWWFFTL  
IISSYTANLAAFLTVERMESPIDSAADLAKQTKIEYGAVRDGSTMTFFKSKISTYKEM  
WAFMSSRQQTALVRNSDEGIQRLVLTDDYALLMESTSIEYVTQRNCNLTIIGGLIDSKGYG  
VGTPIGSPYRDKITIAILQLQEEGKLHMMKEKWWRGNGCPEEDNKEASALGVENIGGIFI  
VLAAGLVLSVFVAIGEFYKSRKNNDIEQAFCFYGLQCKQTHPTNSTSGTTLSTDLECG  
KLIREERGIRKQSSVHTV

>sp|Q13002|GRIK2\_HUMAN Glutamate receptor ionotropic, kainate 2 OS=Homo sapiens GN=GRIK2  
PE=1 SV=1

MKIIFPILSNPVFRRTVKLLLCLLWIGYSQGTHVLRFGGIFEYVESGPMGAEELAFRFA  
VNTINRNRTLLPNTLTLYDTQKINLYDSFEASKKACDQLSLGVAAIFGPSHSSSANAVQS  
ICNALGVPHIQTRWKHQVSDNKDSFYVSLYPDFSSLSRAILDLVQFFKWKTVTVVYDDST  
GLIRLQELIKAPSRYNLRKIRQLPADTKDAKPLLKEMKRGKEFHVIFDCSHEMAAGILK  
QALAMGMMTEYYHYIFTLDLFDLVEPYRYSGVNMTGFRILNTENTQVSSII EKWSMER  
LQAPPKPDSGLLDGFMTTDAALMYDAVHVVSVAVQQFPQMTVSSLQCNRHKPWRFGTRFM  
SLIKEAHWEGLTGRTFNKTNGLRDFTDLVLSLKEEGLEKIGTWDPASGLNMTESQKKG  
PANITDSLSNRSLIVTTILEEPYVLFKSKDKPLYGNDRFEGYCIDLLRELSTILGFTYEI  
RLVEDGKYGAQDDANGQWNGMVRELIDHKADLAVAPLAITYVREKVIDFSKPFMTLGISI  
LYRKPNGTNPGVFSFLNPLSPDIWMYILLAYLGVSCVLFVIARFSPYEWYNPHPCNPDS  
VVENNFTLLNSFWFGVGMALMQQGSSELMPKALSTRIVGGIWWFFTLIISSYTANLAAFLT  
VERMESPIDSAADLAKQTKIEYGAVEDGATMTFFKSKISTYDKMWAFMSSRQSVLVKS  
NEEGIQRLVLTSDYAFLMESTTIEFVTQRNCNLTIIGGLIDSKGYGVGTPMGSPYRDKITI  
AILQLQEEGKLHMMKEKWWRGNGCPEESKEASALGVQNIIGGIFIVLAAGLVLSVFVAVG  
EFLYKSKKNAQLEKRSFCSAMVEELRMSLKCQRRLKHKPQAPVIVKTEEVINMHTFNDRR  
LPGKETMA

>sp|P34947|GRK5\_HUMAN G protein-coupled receptor kinase 5 OS=Homo sapiens GN=GRK5 PE=1  
SV=1

MELNIVANTVLLKAREGGGKRGKSKKWKEILKFPHISQCEDLRRTIDRDYCSLCKQ  
PIGRLLFRQFCETRPGLCEYIQFLDSVAEYEVTPDEKLGEKGKEIMTKYLTPKSPVFIAQ  
VGQDLVSQTEEKLLQKPKELFSACAQSVHEYLARGEFPHEYLDSMFFDRFLQWKWLERQP  
VTKNTRFRQYRVLGKGGFGEVCACQVRATGKMYACKRLEKKRIKKRGESMALNEKQILEK  
VNSQFVVNLAYAYETKDALCLVLTIMNGDLKFHIYNMGNPGFEEERALFYAAEILCGLE  
DLHRENTVYRDLKPENILLDDYGHIRISDLGLAVKIIPEGDLIRGRVGTGYMAPEVLNNQ  
RYGLSPDYWGLGCLIIYEMIEGQSPFRGRKEKVKREEVDRRVLETEEVYSHKFSEEAKSIC  
KMLLTKDAKQRLGCQEEGAAEVKRHPFFRNMNFKRLEAGMLDPPFVPDPRAVYCKDVLDI  
EQFSTVKGVNLDHTDDDFYSKFSTGSVSIWQNMETECFKELNVFGPNGTLPPDLNRN  
HPPEPPKKGLLQRLFKRQHQNNSKSSPSSKTSFNHHINSNHVSSNSTGSS

>sp|Q96CP6|GRM1A\_HUMAN GRAM domain-containing protein 1A OS=Homo sapiens GN=GRAMD1A PE=1 SV=2

MFDTTPHSGRSTPSSSPSLRKRLQLLPPSRPPPEPEPGTMVEKGSDSSSEKGGVPGTPST  
QSLGSRNFIRNSKKMQSWYMSPTYKQRNEDFRKLFSKLPEAERLIVDYSCALQREILL  
QGRLYLSEWICFYSNIFRWETTISIQLKEVTCLKKEKTAKLIPNAIQCTESEKHFFTS  
FGARDRCFLLI FRLWQNALLEKTLSPRELWHLVHQCYGSELGLTSEDEDYVSPLQLNGLG  
TPKEVGDVIALSDITSSGAADRSQEPSPVGSRRGHVTPNLSRASSDADHGAEEDKEEQVD  
SQPDASSQTVTPVAEPPSTEPTQPDGPTTLGPLDLLPSEELLTDTSNSSSSTGEEADLA  
ALLPDLSGRLLINSVFHVGAEERLQQLFSDSPFLQGFLQCKFTDVTLSPWGDSKCHQR  
RVLYTYTIPISNPLGPKSASVVETQTLFRRGPQAGGCVVDSEVLTQGIPYQDYFYTAHRYC  
ILGLARNKARLRVSSEIRYRKQPSLVKSLIEKNSWSGIEDYFHHLERELAKAEKLSLEE  
GGKDARGLLSGLRRRKRP LSWRAHGDGPQHDPDPCARAGIHTSGSLSSRFSEPSVDQGP  
GAGIPSALVLISIVICVSLIILIALNVLLFYRLWSLERTAHTFESWHSALAKGKFPQTA  
TEWAEILALQKQFHSVEVHKWRQILRASVELLDEMKSLEKLHQGITVSDPPFDTQPRPD  
DSFS

>sp|Q3KR37|GRM1B\_HUMAN GRAM domain-containing protein 1B OS=Homo sapiens GN=GRAMD1B PE=1 SV=1

MKGFKLSCTASNSNRSTPACSPILRKRSRSTPQNQDGMTVEKGSDHSSDKSPSTPEQG  
VQRSCSSQSGRSGGKNSKKSQSWYNVLSPTYKQRNEDFRKLFKQLPDTERLIVDYSCALQ  
RDILLQGRLYLSEWICFYSNIFRWETLLTVRLKDICSMTKEKTARLIPNAIQVCTDSEK  
HFFTSFGARDRTYMMFRLWQNALLEKPLCPKELWHFVHQCYGNELGLTSDDEDYVPPDD  
DFNTMGYCEEIPVEENEVNDSSSKSS IETKPDASPQLPKSITNSTLTSTGSSEAPVSFD  
GLPLEEEALEGDSLEKELAI DNIMGEKIEMIAPVNSPSLDFNDNEDIPTELSDSSDTHD  
EGEVQAFYEDLSGRQYVNEVFNFSDKLYDLLFTNSPFQRDFMEQRRFSDIIFHPWKKEE  
NGNQSRVILYTTITLNPAPKTATVRETQTMKASQESECYVIDAEVLTHDVPYHDYFYT  
INRYTLTRVARNSRLRVSTELRYRKQPWGLVKTFIEKNFWSGLEDYFRHLESELAKTES  
TYLAEMHRQSPKEKASKTTT VRRRKRP HAHLRVPHLEEVMSPTTPTDEDVGHRIKHVAG  
STQTRHIPEDTPNGFHLQSVSKLLLVISCVICFSLVLLVILNMMLFYKLWMLEYTTQTLT  
AWQGLRLQERLPQSQTAWQLLESQQKYHDTLQKWREI IKSSVMLLDQMKDSLINLQNG  
IRSRDYSSEEEKRNRYH

>sp|O15303|GRM6\_HUMAN Metabotropic glutamate receptor 6 OS=Homo sapiens GN=GRM6 PE=1 SV=2

MARRRAREPLLVALLPLAWLAQAAGLARAAGSVRLAGGLTLGGLFPVHARGAAGRACGQL  
KKEQGVHRLEAMLYALDRVNADPELLPGVRLGARLLDTCRDTYALEQALSFVQALIRGR  
GDGDEVGVRCPPGVPLRPAPPERVVAVVGASASSVSIMVANVRLRLFAIPQISYASTAPE  
LSDSTRYDFFSRVPPDSYQAQAMVDIVRALGWNVSTLASEGNYGESGVEAFVQISREA  
GGVCIAQSIKIPREPKPGEFSKIVIRRLMETPNARGIIIFANEDDIRRVLEAARQANLTGH  
FLWVGSDSWGAKTSPILSLEDVAVGAITILPKRASIDGFDQYFMTRSLNNRRNIWFAEF  
WEENFNCKLTSSGTQSDSTRCTGEERIGRDSTYEQEGKVQFVIDAVYAIHAHALHSMHQ  
ALCPGHTGLCPAMEPTDGRMLLQYIRAVRFNGSAGTPVMFNENGDAPEGRYDIFQYQATNG  
SASSGGYQAVGQWAEATLRDLVEALQWSGDPHEVPSSLCSLPCGGERKKMKVGPCCWHC  
EACDGYRFQVDEFTCEACPGDMRPTPNHTGCRPTPVVRLSWSSPWAAPPLLLAVLGIVAT  
TTVVATFVRYNNTPIVRASGRELSYVLLTGIFLIYAITFLMVAEPGAAVCAARRLFLGLG  
TTLSYSALLTKTNRIYRIFEQGKRSVTPPPFISPTSQLVITFSLTSLQVVGMIAWLGARP  
PHSVIDYEEQRTVDPEQARGVLKCDMSDLSLIGCLGYSLLMVTCTVYAIKARGVPETFN

EAKPIGFTMYTTCIIWLAFFVPIFFGTAQSAEKIYIQTTTLTVSLSASVSLGMLYVPKT  
YVILFHPEQNVQKRKRSCLKATSTVAAPPKGEDAEAHK

>sp|P09341|GROA\_HUMAN Growth-regulated alpha protein OS=Homo sapiens GN=CXCL1 PE=1 SV=1  
MARAAALSAAPSNPRLLRVALLLLLVAAGRRAAGASVATELRQCQLTLQGIHPKNIQSV  
NVKSPGPHCAQTEVIATLKNRKAACLNPAPIVKKIIEKMLNSDKSN

>sp|Q8TDF6|GRP4\_HUMAN RAS guanyl-releasing protein 4 OS=Homo sapiens GN=RASGRP4 PE=1 SV=2  
MNRKDSKRKSHQECTGKIGGRPRQVRRHKTCPSPREISKVMASMLGLLSEGGCSEDE  
LLEKCIQSFDSSAGSLCHEDHMLNMVLAHMSWVLPADLAARLLTSYQKATGDTQELRRLQ  
ICHLVRYWLMRHPVEMHQDPQLEEVIGRFWATVAREGNSAQRRLLGDSSDLLSPGGPGPPL  
PMSSPGLGKKRKVSLLFDHLETGELAQHLTYLEFRSFQAITPQDLRSYVLQGSVRGCPAL  
EGSVGLSNSVSRVQVMVLSRPGPLQRAQVLDKFIHVAQRLHQLQNFNTLMAVTGGLCHS  
AISRLKDSHAHLSPDSTKALLEL TELLASHNNYARYRRTWAGCAGFRLPVLGVHLKDLVS  
LHEAQPDRLPDGRLHLPKLNLYRLQELVALQGQHPPCSANEDLLHLLTSLDLFYTED  
EIYELSYAREPRCPKSLPPSPFNAPLVVEWAPGVTPKPDVTLGRHVEQLVESVFKNYDP  
EGRGTISQEDFERLSGNFPFACHGLHPPRQGRGSFSREELTGILLRASAICSKLGLAFL  
HTFHEVTFRKPTFCDS CSGFLWGVTKQGYRCREGLCCHKHCRDQVKVECKKRPAGAKDA  
GPPGAPVPSTPAPHASCGSEENHSYTLSLEPETGCQLRHAWTQTESPHPSWETDTPPCPV  
MDPPSTASSKLD

>sp|P11021|GRP78\_HUMAN 78 kDa glucose-regulated protein OS=Homo sapiens GN=HSPA5 PE=1  
SV=2

MKLSLVAAMLLLLSAARAEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNR  
ITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVV  
EKKTkPYIQVDIGGGQTKTFAPEEISAMVLTMKETAAYLGKKVTHAVVTVPAYFNDAQ  
RQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNG  
VFEVATNGDTHLGGEDFDQVRMEHFIKLYKKKTGKDVRKDNRAVQKLRRVEKAKRALS  
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLESDLKKSIDEIV  
LVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAGVQAGVLSGDQDTGDLVLLDVC  
PLTLGIETVGGVMKLI PRNTVPVTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLG  
TFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIER  
MVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSSEDKETMEKAVEE  
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

>sp|Q4G1C9|GRPL2\_HUMAN GLIPR1-like protein 2 OS=Homo sapiens GN=GLIPR1L2 PE=2 SV=2  
MEAAPFAREWRAQSLPLAVGGVLKRLCELWLLL GSSLNARFLPDEEDVDFINEYVNL  
HNELRGDVIPRGSNLRFM TDWVALSRTARAWGKKCLFTHNIYLQDVQMVHPKFGYIGENM  
WVGPENEFTASIAIRSWHAEEKMYNFENGSCSGDCSNYIQLVWDHSYKVGCAVTPCSKIG  
HIIHAAIFICNYAPGGTLTRRPYEPGIFCTRCGRDKCTDFLCSNADRDQATYYRFWYPK  
WEMPRPVVCDPLCTFILLRLILCFILCVITVLIVQSQFPNILLEQQMIFTEESEAGNEE  
EEKEEEEKKEEMEMEIMEMEEEEKEEEEEETQKEKMEEEEK

>sp|Q6AI39|GSC1L\_HUMAN GLTSCR1-like protein OS=Homo sapiens GN=GLTSCR1L PE=1 SV=2  
MDDDDSDCLLDLIGDPQALNYFLHGSPNKSNDL TNAGYSAANSNISIFANSSNADPKSS  
LKGVSQNLGEGPSDGLPLSSSLQFLEDELESSPLPDLTEDQPFIDILQKSLQEANITEQTL  
AEEAYLDASIGSSQQAQALHPSSSASFTQASNVSNSYSGQTLQPIGVTHVPVGASFASN  
TVGVQHGMQHVGISVPSQHLSNSSQISGSGQIQIGSFGNHPSMMTINNLDGSQIILKG  
SGQQAPSNVSGGLLVHRQTPNGNSLFGNSSSPVAQPVTPFNSTNFQTSLPVHNIIQR



GLAPNSNKVPINIQKPIQMGQQNTYNVNNLGIQQHHVQQGISFASASSPQGSVVGPHMS  
VNIVNQNRKPVTSQAVSSTGGSIVIHSPMGQPHAPQSQFLIPTSLSVSSNSVHHVQTI  
NGQLLQTQPSQLISGQVASEHVMLNRNSSNMLRTNQPYTGPMNNQNTAVHLVSGQTFAA  
SGSPVIANHASPQLVGGQMPLQQASPTVLHLSPGQSSVSQGRPGFATMPSVTSMGSPSRF  
PAVSSASTAHPSLGSAVQSGSSGSNFTGDQLTQPNRTPVPVSVSHRLPVSSSKSTSTFSN  
TPGTGTQQQFFCQAQKKCLNQTSPI SAPKTTDGLRQAQIPGLLSTTLPGQDSGSKVISAS  
LGTAQPQQEKVVGSSPGHPAVQVESHS GGQKRPAKQLTKGAFILQQLQRDQAHTVTPDK  
SHFRSLSDAVQRLLSYHVCQGSMPTEEDLRKVDNEFETVATQLLKRTQAMLNKYRCLLLE  
DAMRINPSAEMVMIDRMFNQEERASLSRDKRLALVDPEGFQADFCCSFKLDKAAHETQFG  
RSDQHSGSKASSSLQPPAKAQGRDRAKTGVTEPMNHDQFHLVPNHIVVSAEGNISKKTECL  
GRALKFDKVLGVYQYSTSEEKASRREPLKASQCSPGPEGHRKTSRSDHGTESKLSSILA  
DSHLEMTCNNSFQDKSLRNSPKNEVLHTDIMKSGSEPQPDQLTKSLETTFKNILELKA  
GRQPQSDPTVSGSVELDFPNFSPMASQENCLEKFIPDHSEGVVETDSILEAAVNSILEC

>sp|Q9NZM4|GSCR1\_HUMAN Glioma tumor suppressor candidate region gene 1 protein OS=Homo sapiens GN=GLTSCR1 PE=1 SV=2

MDDEDGRCLLDVICDPQALNDFLHGSEKLDSDDLLDNPGEAQSAFYEGPGLHVQEASGNH  
LNPEPNQPAPSVLDLDFLEDDILGSPATGGGGGSGGADQPCDILQQSLQEANITEQTLEA  
EAELDLGPFQLPTLPADGGAGPTGAGGAAVAAGPQALFPGSTDLLGLQGPPPTVLTHQA  
LVPPQDVVNKALSVQPFLLQPVGLGNVTLQPIPGLLQGLPNGSPGGATAATLGLAPIQVVGQ  
PVMALNTPTSQLLAKQVPVSGYLAASAAGPSEPVTLASAGVSPQGAGLV IQKNLSAAVATT  
LNGNSVFGGAGAASAPTGTSPGQPLAVAPGLGSSPLVPAPNVILHRTPTPIQPKPAGVLP  
PKLYQLTPKPFAPAGATLTIQGEFGALPQQPKAPQNLTFMAAGKAGQNVVLSGFPAPALQ  
ANVFKQPPATTTGAAPPQPPGALSKPMSVHLLNQSSIVIPAQHMLPGQNQFLLPGAPAV  
QLPQQLSALPANVGGQILAAAAPHTGGQLIANPILTNQNLAGPLSLGPVLAPHSGAHS  
ILSAAPIQVGQPALFQMPVSLAAGSLPTQSQPAPAGPAATTVLQGVTLPPSAVAMLNTPD  
GLVQPATPAAATGEAAPVLTVPAPQAPPAVSTPLPLGLQQPQAQPPQAPTPQAAAPPQ  
ATTPQSPGLASSPEKIVLGQPPSATPTAILTQDSLQMFLLPQERSQQPLSAEGPHLSVPA  
SVIVSAPPPAQDPAPATPVAKGAGLGPQAPDSQASPAPAPQIPAAAPLKGGPSSSPSLP  
HQAPLGDSPHLPSHPHTRPPSRPPSRPQSVSRPPSEPPLHPCPPPQAPPTLPGIFVIQNNQ  
LGVPPPASNPAPTAPGPPQPPLRPQSQPPEGPLPPAPHLPPSSTSSAVASSSETSSRLPA  
PTPSDFQLQFPSPQGHKSPTPPPTLHLVPEPAAPPPPPRPTFQMVTPFPALPQPKALL  
ERFHQVPSGIILQNKAGGAPAAPQTSTSLGPLTSPAASVLVSGQAPSGTPTAPSHAPAPA  
PMAATGLPPLPAENKAFASNLPTLNVAKAASSGPGKPSGLQYESKLSGLKKPPTLQPSK  
EACFLEHLHKHQGSVLHPDYKTAFFPSFEDALHRLLPYHVYQGALPSPSDYHKVDEEFETV  
STQLLKRTQAMLNKYRLLLLLEESRRVSPSAEMVMIDRMFIQEEKTTALDKQLAKEKPDE  
YVSSSRSLGLPIAASSEGHRLPGHGPLSSSAPGASTQPPPHLPTKLVI RHGGAGGSPSVT  
WARASSSLSSSSSSSSAASSLDADEDGMPMSRNRPPIKTYEARSRIGLKLKIKQEAGLSK  
VVHNTALDPVHQPPPPATLKVAEPPRPPPPPPPTGQMNGTVDHPPPAAPERKPLGTAP  
HCPRLPLRKTYRENVGGGAPEGTPAGRARGGSPAPLPAKVDEATSGLIRELAAVEDELY  
QRMLKGPPPEPAASAAQGTGDPDWEAPGLPPAKRRKSESPDVDAQSFSSDSPQDDTLTEH  
LQSAIDSILNLQQAPGRTPAPSYPHAASAGTPASPPPLHRPEAYPPSSHNGGLGARTLTR

>sp|P56915|GSC\_HUMAN Homeobox protein goosecoid OS=Homo sapiens GN=GSC PE=1 SV=2  
MPASMFSDNILAARPRCKDSVLPVAHSAAPVVFPALHGDSLYGASGGASSDYGAFYPR  
PVAPGGAGLPAAVSGSRLGYNNYFYGQLHVQAAPVGPACCGAVPPLGAQQCSCVPTPPGY

EGPGSVLVSPVPHQMLPYMNVGTLSRTELQLLNQLHCRKRHRRTIFTDEQLEALENLFQ  
ETKYPDVGTRQLARKVHLREEKVEVWFKNRRQKRRQKRSSESENAEKWNKTSSSKA  
SPEKREEEGKSDLSDS

>sp|P00390|GSHR\_HUMAN Glutathione reductase, mitochondrial OS=Homo sapiens GN=GSR PE=1  
SV=2

MALLPRALSAGAGPSWRRARAARFRGFLLLLPEPAALTRALSAMACRQEPQPQGPAAAG  
AVASYDYLVIIGGSGGLASARRAAELGARAAVVESHKLGGTCVNVGCVPKKVMWNTAVHS  
EFMHDHADYGFPSCEGKFNWRVIEKRDAYVSRLNAIYQNNLTSHIEIIRGHAAFTSDP  
KPTIEVSGKKYTAPHILIAITGGMPSTPHESQIPGASLGITSDGFFQLEELPGRSVIVGAG  
YIAVEMAGILSALGSKTSLMIRHDKVLRSFDSMISTNCTEELNAGVEVLKFSQVKEVKK  
TLSGLEVSMVTAVPGRPLVMTMIPDVCLLWAIGRPNTKDLSLNKLGIQTDDKGHIIVD  
EFQNTNVKGIYAVGDVCGKALLTPVAIAAGRKLHRLFEYKEDSKLDYNNIPTVVFSHPP  
IGTVGLTEDEAIHKYGIENVKTYSTSTFTPMYHAVTKRKTCKVMKVCANKEEKVVGIHMQ  
GLGCDEMLQGFVAVKMGATKADFNTVAIHPTSSEELVTLR

>sp|Q9BZM3|GSX2\_HUMAN GS homeobox 2 OS=Homo sapiens GN=GSX2 PE=2 SV=2

MSRSFYVDSLIIKDTSRPAPSLPEPHGPDFFIPLGMPPLVMSVSGPGCPSRKSGAFCV  
CPLCVTSHLHSSRGSVGAGSGGAGAGVTGAGGSGVAGAAGALPLLKGQFSSAPGDAQFCP  
RVNHAHHHHHPQHHHHHHQPPQPGSAAAAAAAAAAAAAAAAALGHPQHHPVCTATTYNV  
ADPRRFHCLTMGGSASQVPNGKRMRTAFTSTQLLELEREFSSNMYLSRLRRIEIIATYLN  
LSEKQVKIWFQNRVVKHKEGKTQRNSHAGCKCVGSQVHYARSEDEDSLSPASANDDKE  
ISPL

>sp|Q8NBJ5|GT251\_HUMAN Procollagen galactosyltransferase 1 OS=Homo sapiens GN=COLGALT1  
PE=1 SV=1

MAAAPRAGRRRGQPLLALLLLLLLAPLPPGAPPADAYFPEERWSPESPLQAPRVLIALLA  
RNAAHALPTTLGALERLRHPRERTALWVATDHNMDNTSTVLREWLAVKSLYHSVEWRPA  
EEPRSYDDEEGPKHWSDSRYEHVMKLRQAALKSARDMWADYILFVDADNLIINPDTLSLL  
IAENKTVVAPMLDSRAAYSNFWCGMTSQGYKRTPAYIPIRKRDRRGCFVPMVHSTFLI  
DLRKAASRNLAFFPHPDYTWSFDDIIVFAFSCKQAEVQMYVCNKEEYGFPLPVPLRAHST  
LQDEAESFMHVQLEVMMKHPPAEPSPRFISAPTKTPDKMGFDEVFMINLRRRQDRRERMLR  
ALQAQEIIECRLVEAVDGKAMNTSQVEALGIQMLPGYRDPYHGRPLTKGELGCFLSHYNIW  
KEVVDRLQKSLVFEDDLRFEIFFKRRLMNLMRDVEREGLDWDLIYVGRKRMQVEHPEKA  
VPRVRNLVEADYSYWTLAYVISLQGARKLLAAEPLSKMLPVDEFPLVPMFDKHPVSEYKAH  
FSLRNLHAFSVEPLLIYPHTYTGDDGYVSDTETSVMVWNEHVKTWDRAKSQKMREQQAL  
SREAKNSDVLQSPLDSAARDEL

>sp|Q9UHL9|GT2D1\_HUMAN General transcription factor II-I repeat domain-containing protein  
1 OS=Homo sapiens GN=GTF2IRD1 PE=1 SV=1

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSVALDSMCSALSKLNAEVACVAVHDE  
SAFVVGTEKGRMFLNARKELQSDFLRFCRGPWKDPEAEHPKKVQRGEGGGRSLPRSSLE  
HGSDVYLLRKMVEEVFDVLYSEALGRASVPLPYERLLREPGLLAVQGLPEGLAFRRPAE  
YDPKALMAILEHSHRIRFKLRPLEDGGRDSKALVELNGVSLIPKGSRDCLHGQAPKVP  
PQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMEPKATGAQD  
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDFAFIKETEDINTLRECVQILFN  
SRYAEALGLDHMVPPYRKIACDPEAVEIVGIPDKIPFKRPTYGVPKLKRILEERHSIH  
FIIKRMFDERIFTGNKFTKDTTKLEPASPPEDTSAEVSRAIVLTLAGNARSDBGSMSEDC

GPGETSGELGGLRPKIEPEDLDIIQVTVDPSPSTSEEMTDSMPGHLPSEDSGYGMEMLT  
KGLSEDARPEERPVESHGDIVRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE  
LFVVGLPEGISLRRPNCFCGIKLRKILEASNSIQFVIKRPELLTEGVKEPIMDSQGTASS  
LGFSPALPPERDSGDPLVDESLKRQGFQENYDARLSRIDIANLREQVQDLFNKKYGEA  
LGIKYPVQVPYKRIKSNPGSVIIIEGLPPGIPFRKPCTFGSQNLERILAVADKIKFTVTRP  
FQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLPYKLIIRDSPDAVEV  
TGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPFAEICNDAKVPKDSIPKR  
KRKRVSSEGNVSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLVNQLPGPLNY

>sp|Q6EKJ0|GTD2B\_HUMAN General transcription factor II-I repeat domain-containing protein  
2B OS=Homo sapiens GN=GTF2IRD2B PE=1 SV=1

MAQVAVSTLPVEEESSETRMVTFLVSALESMCKELAKSKAEVACIAVYETDVFVVGTE  
RGCAFNARTDFQKDFAKYCAEGLCEVKPPCPVNGMQVHSGETEILRKAVEDYFCFCYG  
KALGTTVMVPVPYKMLRDQSAVVVQGLPEGVAFQHPENYDLATLKWILENKAGISFIIN  
RPFLGPESQLGGPGMVTDAERSIVSPSESCGPINVKTEPMEDSGISLKAESVVKESD  
PNYYQYNMQGSHPSSTSNEVIEMLPMEDSTPLVPSEEPNEDPEAEVKIEGNTNSSSVTN  
SAAGVEDLNIVQVTPDNEKERLSSIEKIKQLREQVNDLFSRKFGAIGVDFPVKVPYRK  
ITFNPGCVVIDGMPPGVVFKAPGYLEISSMRRIEAAEFIKFTVIRPLPGLLESNVGKRK  
IDQEGRVFQEKWERAYFFVEVQNIPTCLICKQSMSVSKEYNLRRHYQTNHSHYDQYTER  
MRDEKLHELKKGLRKYLLGSSDTECEPQKQVFANPSPTQKSPVQPVEDLAGNLWEKLREK  
IRSFVAYSIAIDEITDINNTQLAIFIRGVDENFDVSEELLDTPMTGTSKSGNEIFLRVE  
KSLKKFCINWSRLVSVASTGTPAMVDANGLVTKLSRVATFCKGAELKSICCIHPESL  
CAQKLKMDHVM DVVKS VNWICSRGLNHSEFTTLLYELDSQYGSLLYYTEIKWLSRGLVL  
KRFESLEEIDSFMSSRGKPLQLSSIDWIRDLAFLVDMTHLNLNLSLQHSQIVTQM  
YDLIRAFKAKLCLWETHLTRNNLAHFPTLKLVS RNESDGLNYIPKIAELKTEFQKRLSDF  
KLYESELTLFSSPFSTKIDSVHEELQMEVIDLQCNTVLKTKYDKVG IPEFYKYLWGSYPK  
YKHHC AKILSMFGSTYICEQLFSIMKLSKTKYCSQLKDSQWDSVLHIAT

>sp|P49915|GUAA\_HUMAN GMP synthase [glutamine-hydrolyzing] OS=Homo sapiens GN=GMPS PE=1  
SV=1

MALCNGDSKLENAGDGLKDGHHHYEGAVVILDAGAQYGVKIDRRVRELFVQSEIFPLETP  
AFAIKEQGFR AIIISGGPN SVYAEDAPWFDPAIFTIGKPVLGICYGMQMMNKVFGGTVHK  
KSVREDGVFNISVDNTCSLFRGLQKEEVLLTHGDSVDKVADGFKVVARSGNIVAGIANE  
SKKLYGAQFHPEVGLTENGVILKNFLYDIAGCSGTFTVQNRELECI REIKERVGT SKVL  
VLLSGVDSTVCTALLNRALNQEQVIAVHIDNGFMRKRESQSVEEALKKLG IQVKVINAA  
HSFYNGTTTLPISDEDRTPRKRISKTLNMTTSPEEKRKIIIGDTFVKIANEVIGEMNLKPE  
EVFLAQGTLRPD LIESASLVASGAELIKTHHNDTELIRKLREEGKVI EPLKDFHKDEV R  
ILGRELGLPEELVSRHPFPGPLAIRVICA EEPYICKDFPETNNILKIVADFSASVKKPH  
TLLQRV KACTTEEDQEKL MQITS LHSLNAFLLP IKTGVGVQGDCRSYSYVCGISSKDEPDW  
ESLIFLARLIPRMCHNVNRVVYIFGPPVKEPPTDVTPTFLT TGVLSTLRQADFEAHN ILR  
ESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRT FITSDFMTGIPATPGNEIPVE  
VVLKMVTEIKKIPGISRIMYDLTSKPPGTTEWE

>sp|P43080|GUC1A\_HUMAN Guanylyl cyclase-activating protein 1 OS=Homo sapiens GN=GUC1A  
PE=1 SV=3

MGNVMEGKSVEELSSTECHQWYKKFMTECPSGQLTLYEFRQFFGLKNLSPSASQYVEQMF  
ETFDNFNDGYIDFMEYVAALSVLKKGVEQKLRWYFKLYDVDGNGCIDRDELLTIIQAIR

AINPCSDTTMTAEFTDTVFSKIDVNGDGELSLEEFIEGVQKQMLDLTLTRSLDLTRIV  
RRLQNGEQDEEGADEAAEAAG

>sp|Q86UL3|GPAT4\_HUMAN Glycerol-3-phosphate acyltransferase 4 OS=Homo sapiens GN=GPAT4  
PE=1 SV=1

MFLLLPFDSLIVNLLGISLTVLFTLLLVFIIVPAIFGVSFGRKLYMKSLLKIFAWATLR  
MERGAKEKNHQLYKPYTNGIIAKDPTSLEEEIKEIRRS GSSKALDNTPEFELSDIFYFCR  
KGMETIMDDEVTKRFSAEELSWNLLSRTNYNFQYISLRLTVLWGLVLI RYCFLPLRI  
ALAF TGISLLVVGTTVVGYLPNGRFKEFMSKHVHLMCYRICVRALTAIITYHDRENRP  
RGICVANHTSPIDVILASDGYAMVGQVHGGLMGVIQRAMVKACPHVWFERSEVKDRHL  
VAKRLTEHVQDKSKLPILIFPEGTCINNTSVMF KKSFEIGATVYPVAIKYDPQFGDAF  
WNSSKYGMVTYLLRMMTSWAIVCSVWYLPMTREADEDAVQFANRVKSAIARQGGLVDLL  
WDGGLKREKVKDTFKEEQKLYSKMIVGNHKDRSRS

>sp|Q8N158|GPC2\_HUMAN Glypican-2 OS=Homo sapiens GN=GPC2 PE=2 SV=1

MSALRPLLLLLLPLCPGPGPGPGEAKVTRSCAETRQVLGARGYSLNLIPPALISGEHLR  
VCPQEYTCSSETEQRILIRETEATFRGLVEDSGSFLVHTLAARHRKFDEFFLEMLSVAQH  
SLTQLFSHSYGRLYAQHALIFNGLFSRLRDFYGESGEGLDLADFWAQLLERVFPLLHP  
QYSFPDPYLLCLSRLASSTDGSLQPF GDSRRLRLQITRTLVAARAFVQGLTGRNVVSE  
ALKVPVSEGSQALMRLIGCPLCRGVP SLMPCQGFCLNVVRGCLSSRGLEPDWGN YLDGL  
LILADKLQGPFSFELTAESIGVKISEGLMYLQENSAKVS AQVFQECGPPDPVPARNRRAP  
PPREEAGRLWSMVTEERPTTAAGTNLHRLVWELRERLARMRGFWARLSLTVCGDSRMAA  
DASLEAAPCWTGAGRGRYLPPVVGSPAEQVNNPELKVDASGPDVPTRRRLQLRAATAR  
MKTAALGHDLGDQDADEDASGSGGQYADDWMAGAVAPPARPPRPYP PRRDGS GKGKGG  
GGSARYNQGRSRSGGASIGFHTQTILILSLSALALLGPR

>sp|Q86YW7|GPHB5\_HUMAN Glycoprotein hormone beta-5 OS=Homo sapiens GN=GPHB5 PE=1 SV=1

MKLAF LFLGPMALLLAGYGCVLGASSGNLRTFVGCAVREFTFLAKKPGCRGLRITTDAC  
WGR CETWEKPILEPPYIEAHRVCTYNETKQVTVKLPNCAPGVDPFYTYPV AIRCDGAC  
STATTECETI

>sp|POCG08|GPHRB\_HUMAN Golgi pH regulator B OS=Homo sapiens GN=GPR89B PE=1 SV=1

MSFLIDSSIMITSQILFFGFGWLFFMRQLFKDYEIRQYVVQVIFS VTFAFSCTMFELIIF  
EILGVLNSSSRYPFHWMNLCVILLILVMVPFYIGYFIVSNIRLLHKQRLLFSCLLW LTF  
MYFFWLKGDPPILSPKHGILSIEQLISRVGVIGVTLMALLSGF GAVNCPYTYMSYFLRN  
VTDTDILALERLLQTMDMIISKKKRMAMARRTMFQKGEVHNKPSGFWGMIKSVTTSASG  
SENLTLIQQEVDAL EELSRQLFLETADLYATKERIEYSKTFKGKYFNFLGYFFSIYCVWK  
IFMATINIVFDRVGKTDVTRGIEITVNYLGIQFDVKFWSQHISFILVGIIIVTSIRGLL  
ITLTKFFYAISSSKSNVIVLLAQIMGYFVSSVLLIRMSMPLEYRTIITEVLGELQFN  
FYHRWFDVIFLV SALSSILFLYLAHKQAPEKQMAP

>sp|Q9HCN4|GPN1\_HUMAN GPN-loop GTPase 1 OS=Homo sapiens GN=GPN1 PE=1 SV=1

MAASAAAAELQASGGPRHPVCLLVLMAGSGKTTFVQRLTGHLHAQGT PPYVINLDP AVH  
EVPFPANIDIRDTV KYKEVMKYGLGPNGGIVTSLNLFATRFDQVMKFIEKAQNMSKYVL  
IDTPGQIEVF TWSASGTIITEALASSFTTVIYVMDTSRSTNPVTFMSNMLYACSIYKT  
KLPIVVMNKTDIIDHSFAVEWMQDFEAFQDALNQETTYVSNLTRMSLVLDEFYSSLRV  
VGVS AVLGTGLDEL FVQVTSAAEYEREYRPEYERLKKSLANAESQQQREQLERLRKDMG  
SVALDAGTAKDSLSPVLHPSDLILTRGTLDEEDEEADSDTDDIDHRVTEESHEEP AFQNF  
MQESMAQYWKRNNK

>sp|Q13227|GPS2\_HUMAN G protein pathway suppressor 2 OS=Homo sapiens GN=GPS2 PE=1 SV=3  
MPALLERPKLSNAMARALHRHIMMERERKRQEEEEVDKMMEQKMKEEQERRKKKEMEERM  
SLEETKEQILKLEEKLLALQEEKHQLFLQLKKVLHEEEKRRRKEQSDLTTLTSAAYQQSL  
TVHTGTHLLSMQGSPPGHNRPGLTMAADRAKQMFQPVLTRHYVGSAAAFAGTPEHGQF  
QGSPPGAYGTAQPPPHYGPTQPAYSPSQQLRAPSAFPAVQYLSQPQPYPYAVHGHFQPTQ  
TGFLQPGGALSLLKQMEHANQQTGFSDSSSLRPMHPQALHPAPGLLASPQLPVQMPPAGK  
SGFAATSQPGPRLPFIQHSQNPRFYHK

>sp|Q86YR5|GPSM1\_HUMAN G-protein-signaling modulator 1 OS=Homo sapiens GN=GPSM1 PE=1 SV=2  
MAGPAPPVADELPGPAARRLYSRMEASCLELALEGERLCKAGDFKTGVAFEEAAVQVGTE  
DLKTLSTAIYSQLGNAYFYLKEHGRALEYHKHDLARTIGDRMGEAKASGNLGNLTKVLG  
RFDEAAVCCQRHLSIAQEQGDKVGEARALYNIGNVYHAKGKQLSWNAANATQDPGHLPPD  
VRETLCASEFYERNLSLVKELGDRAAQGRAYGNLGNTHYLLGNFTEATTFHKERLAIK  
EFGDKAAERRAYSNLGNAHVFLGRFDVAAEYKKTQLSRQLRDQAVEAQACYSLGNTYT  
LLQDYERAAEYHLRHLLIAQELADRVGEGRACWSLGNAYVSMGRPAQALTFAKKHLQISQ  
EIGDRHGELTARMNVAQLQLVLGRLTSPAASEKPDLAGYEAQGARPRTQRLSAETWDL  
RLPLEREQNGDSHHSGDWRGSPRSDSLPLPVRSRKYQEGPDAERRPREGSHSPLDSADVRV  
HVPRTSIPRAPSSDEECFFDLLTKFQSSRMDDQRCPLDDQGAGAAEATAAPTLEDRIAQP  
SMTASPQTEEFFDLIASSQSRRLDDQRAVSGSLPGLRITHSNAGHLRGHGEPQEPGDDFF  
NMLIKYQSSRIDDCRCPDVLPRGPTMPDEFFSLIQRVQAKRMDEQRVDLAGGPEQGA  
GGPPEPQQCQPGAS

>sp|P81274|GPSM2\_HUMAN G-protein-signaling modulator 2 OS=Homo sapiens GN=GPSM2 PE=1 SV=3  
MEENLISMREDHSFHVRYRMEASCLELALEGERLCKSGDCRAGVSFFEAAVQVGTEDLKT  
LSAIYSQLGNAYFYLDYAKALEYHHDLTLARTIGDQLGEAKASGNLGNLTKVLGNFDE  
AIVCCQRHLDISRELNDKVGEARALYNLGNVYHAKGKSFGCPGPQDVGEFPPEVRDALQA  
AVDFYEENLSLVLTALGDRAAQGRAFGNLGNTHYLLGNFRDAVIAHEQRLLIAKEFGDKAA  
ERRAYSNLGNAYIFLGEFETASEYKKTLLARQLKDRAVEAQSCYSLGNTYTLLQDYEK  
AIDYHLKHLAIAQELNDRIGEGRACWSLGNAYTALGNHDQAMHFAEKHLEISREVGDKSG  
ELTARLNLSDLQMVGLSYSTNNSIMSENTEIDSSLNGVRPKLGRRHSMENMELMKLTPE  
KVQWNWSEILAKQKPLIAKPSAKLLFVNRLKGKKYKTNSSTKVLQDASNSIDHRIPNSQR  
KISADTIGDEGFFDLLSRFQSNRMDDQRCCLQEKNCHTASTTTSSTPPKMMLKTSSVPVV  
SPNTDEFLDLLASSQSRRLDDQRAFSNLPLGLRLTQNSQSVLSHMTNDNKEADEDFFDI  
LVKCCQSRLLDDQRCAPPATTGPTVPDEFFSLILRSQKRMDEQRVLLQRDQNRDQDF  
GLKDFLQNNALLEFKNSGKKSADH

>sp|Q5T3I0|GPTC4\_HUMAN G patch domain-containing protein 4 OS=Homo sapiens GN=GPATCH4  
PE=1 SV=2  
MNVTPPEVKSRRGMKFAEEQLLKHGWTQGKGLGRKENGITQALRVTLKQDTHGVGHDPKEF  
TNHWWNELFNKTAANLVVETGQDGVQIRSLSKETTRYNHPKPNLLYQKFVKMATLTSGGE  
KPNKDLESCDDDNQGSKSPKILTDEMLLQACEGRTAHKAARLGITMKAKLARLEAQEQ  
FLARLKGQDPGAPQLQSESKPPKKKKRRQKEEEEATASERNDADKHPHAEQNIKRS  
KKKKRRHQEGKVSDEREGTTKGNEKEDAAGTSGLGELNSREQTNQSLRKGKKKKRWHHEE  
EKMGVLEEKGKKEAAGSVRTEEVESRAYADPCSRRKKRQQQEEEDLNLEDGEETVLGG  
GTREAESRACSDGRSRKSKKKRQQHQEEEDILDVRDEKDGGAESAHTGSSSRGKRK  
RQHPKKEKAGVSTVQAKKKQKKRD

>sp|P07203|GPX1\_HUMAN Glutathione peroxidase 1 OS=Homo sapiens GN=GPX1 PE=1 SV=4

MCAARLAAAAAAQSVYAFSARPLAGGEPVSLGSLRGKVLIIENVASLUGTTVRDYTQMN  
ELQRRLGPRGLVVLGFPCNQFGHQENAKNEEILNSLKYYVRPGGGFEPNFMLFEKCEVNGA  
GAHPLFAFLREALPAPSDDATALMTDPKLITWSPVCRNDVAWNFEKFLVGPDGVPLRRYS  
RRFQTIDIEPDIEALLSQGPSCA

>sp|Q8TED1|GPX8\_HUMAN Probable glutathione peroxidase 8 OS=Homo sapiens GN=GPX8 PE=1 SV=2  
MEPLAAYPLKCSGPRAKVFAVLLSIVLCTVTLFLLQLKFLPKINSFYAFEVKDAKGRTV  
SLEKYKGKVSLLVNVASDCQLTDRNYLGLKELHKEFGPSHFSVLAFCPCNQFGESEPRPSK  
EVESFARKNYGVTFPIFHKIKILGSEGEPAFRFLVDSSKKEPRWNFWKYLVNPEGQVVKF  
WKPEEPIEVIRPDIAALVRQVIKKKEDL

>sp|Q96HH9|GRAM3\_HUMAN GRAM domain-containing protein 3 OS=Homo sapiens GN=GRAMD3 PE=1  
SV=1

MTELQQDVEDTKPAKVLGKRESKLGSAHSEAENGVEEKKKACRSPTAQSPTPSVEADSPD  
QKKIISLWSKSSFDGASLASDKNCKTESKNDPKTERKKSSSSSQYKANMHFKLFLSVP  
TEEPLKQSFTCALQKEILYQGLFVSENWICFHSKVFGDKTKISIPAFSVTLIKKTKTAL  
LVPNALIIATVTDRIYFVSLLSRDSTYKLLKSVCGHLENTSVGNPNPSSAENSFRADRP  
SSLPLDFNDEFSDLDGVVQRRQDMEGYSSSGSQTPESNSRDFHATESQTVLNVSKGEA  
KPTRADAHVNRVPEGKAKSLPVQGLSETVGILHKVKSQKCPMLHHILIFYAIVVCALIIS  
TFYMYRINTLEEQLGLLTSIVDTHNTEQAAPSGLRSQVQFNVEVLCQELTANIVKLEKI  
QNNLQKLENGD

>sp|Q4V328|GRAP1\_HUMAN GRIP1-associated protein 1 OS=Homo sapiens GN=GRIPAP1 PE=1 SV=1

MAQALSEEEFQRMQAQLLELRTNNYQLSDELKNGVELTSLRQKVAYLDKEFSKAQKALS  
KSKKAQEVEVLLSENEMLQAKLHSQEEDFRLQNSTLMAEFSKLCSQMEQLEQENQQLKEG  
AAGAGVAQAGPLVDGELLRLQAENTALQKNVAALQERYGKEAGKFSAVSEGQGDPPGGPA  
PTVLAPMPLAEVELKWEMEKEEKRLWEQLQGLESSKQAETSRLQEELAKLSEKLEKKKQE  
SFCRLQTEKETLFNDSRNKIEELQQRKEADHKAQLARTQKLQEELEAANQSLAELRDQRQ  
GERLEHAAALRALQDQVSIQSADAQEVEGLLAENNALRTSLAALEQIQTAKTQELNMLR  
EQTTGLAAELQQQQAQYEDLMGQKDDLNSQLQESLRANSRLLEQLQEIGQEKEQLTQELQ  
EARKSAEKRKAMLDLAMEITLQESQHKKEELGAVRLRHEKEVLGVRARYERELRELHEDK  
KRQEEELRGQIREEKARTRELETLQQTVEELQAQVHSMGAKGWFERRLKEAEESLQQQQ  
QEQEEALKQCREQHAAELKGKEEELQDVRDQLEQAQEERDCHLKTISLQKEVKDITVDGQ  
RILEKKGSAALKDLKRQLHLERKRADKLQERLQDILTNSKSRSGLEELVLSMNPSRTQ  
TGDSSSISFSYREILREKESSAVPARSLSSPQAQPPRPAELSDEEVAELFQRLAETQQ  
EKWMLEEKVKHLEVSSASMAEDLCRKSIIETIYVMSRIDVSVAAGHTDRSGLGSVLRDL  
VKPGDENLREMNNKLQNMLEEQLTKNMHLHKDMEVLSQEIIVRLSKECVGPPDPDLEPGET  
S

>sp|O75791|GRAP2\_HUMAN GRB2-related adapter protein 2 OS=Homo sapiens GN=GRAP2 PE=1 SV=1

MEAVAKFDFTASGEDELSFHTGDVLKILSNQEEWFKAELGSQEGYVPKNFIDIQFPKWFH  
EGLSRHQAENLLMGKEVGFFIIRASQSSPGDFSISVRHEDDVQHFVMRDNKGNYFLWTE  
KFPSLNKLVDDYRTNSISRQKQIFLRDRTREDQGHGNSLDRRSQGGPHLSGAVGEEIRP  
SMNRKLSDHPPPTLPQQHQHQPPQYAPAPQQQLQPPQQRYLQHHHFHQERRGGSGLDIN  
DGHCGTGLGSEMNAALMHRHRTDPVQLQAAGRVRWARALYDFEALEDDELGFHSGEVVEV  
LDSSNPSWWTGRLHNKLGLFPANYVAPMTR

>sp|Q6ZVF9|GRIN3\_HUMAN G protein-regulated inducer of neurite outgrowth 3 OS=Homo sapiens  
GN=GPRIN3 PE=2 SV=2

MGTVPDPLRSAKTSLIAASGKEDDLGEPQAASPRHRPALLCKNANGFSGAPAEPDLSPRA  
AAEALMQVCEHETTQPDMSSPGVFNEVQKAPATFNSPGNPQLPGSSQPAASAPSSAAGR  
LIHTPLTMPANQHTCQSIQPDQPNAITSSMPEDSLMRSQRTSNREQPEKPSCPVGVLSS  
SKDQVSCEFPPETIQGTQVTPVTAARVSSHSSPVGGPEGERQGAICDSEMRCKPLTR  
ESGCSENKQPSVTASGPQGTTSTVPQPTPLTSEPSACPPGPEKVPLPAQRQMSRFKEAST  
MTNQAEESEIKEVPSRAWQDAEVQAVASVESRSVSTSPSILTAFLKESRAPEHFEQEQLRV  
ICHSSGSHLTLESDSTLAPQESSQCPGIMPQVHIQAAAAESTAFQRENKLASLPGGVLKT  
SSINLVSSNAQHTCKEDGRLAGMTPVREESTAKKLAGTNSSSLKATAIDQISISACSQAE  
TSYGLGKFETRPSEFAEKTNTNGHKTDPCDKLSDSCGSISKADHSGSLDPTNKGDAREKKP  
ASPQVVKEKESTGTDTSDAKTLNPKSQESGGTESAANPTPSPIRKNQESTLEENRQTK  
TATSLSLPSDPMGDSSPGSGKTPSRSVKASPRRPSRVSEFLKEQKLVNTAAAAQVGLTP  
GDKKKQLGADSKLQLKQSKRVRDVVWDEQGMTWEVYGASLDAESLGIAIQNHLQRQIREH  
EKLIKTQNSQTRRSISSDTSSNKKLRGRQHSVFQSMQNFRRPNCCVRPAPSSVLD

>sp|Q9Y3R0|GRIP1\_HUMAN Glutamate receptor-interacting protein 1 OS=Homo sapiens GN=GRIP1  
PE=1 SV=3

MIAVSFKCRCQILRRLTKDESPYTKSASQTKPPDGALAVRRQSIPEEFKGSTVVELMKKE  
GTTLGLTVSGGIDKGKPRVSNLRQGGAARSDQLDVGDYIKAVNGINLAKFRHDEIISL  
LKNVGERVVLEVEYELPPVSVQGSSVIFRTVEVTLHKEGNTFGFVIRGGAHDDRNRKSRPV  
VITCVRPGPADREGTIKPGDRLLSVDGIRLLGTTHAEAMSILKQCGQEALLIEYDVSV  
MDSVATASGPLLVEVAKTPGASLGVALTSMCCNKQVIVIDKIKSASIAIDRCGALHVGDH  
ILSIDGTSMEYCTLAETQFLANTDQVKLEILPHHQTRLALKGPDHVKIQRSDRQLTWD  
SWASNHSSLHTNHHYNTYHPDHCRVPALTFPKAPPPNSPPALVSSSFPTSMSAYSLSL  
NMGTLPRSLYSTSPRGTMRRRLKKKDFKSSLSLASSTVGLAGQVVHTETTEVVLADPV  
TGFGIQLQGSVFATETLSSPPLISYIEADSPAERCGVLQIGDRVMAINGIPTEDSTFEEA  
SQLLRDSSITSKVTLEIEFDVAESVIPSSGTFHVKLPKKHVELGITISSPSSRKPGDPL  
VISDIKKGSVAHRTGTLELGDKLLAIDNIRLDNCSMEDAVQILQQCEDLVCLKIRKDEDN  
SDEQESSGAIITYVELKRYGGPLGITISGTEEPFDPIIISLTKGGLAERTGAIHIGDRI  
LAINSSSLKKGKPLSEAIHLLQMAGETVTLIKKQTDQAQSASSPKKFPISSHLSDLGDVEE  
DSSPAQKPGKLSDMYPSTVPSVDSAVDSWDGSAIDTSYGTQGTSTFQASGYNFNTYDWRSP  
KQRGSLSPVTKPRSQTYPDVGLSYEDWDRSTASGFAGAADSAETEQUEENFWSQALEDLET  
CGQSGILRELEEKADRRVSLRNMILLATIMSGSTMSLNHEAPTPRSQGLGRQASFQERSSS  
RPHYSQTTRSNTLPSDVGRKSVTLRKMKEIKEIMSPTPVELHKVTLYKDSMEDFGFSV  
ADGLLEKGVYVKNIRPAGPGDLGGLKPYDRLLQVNHVTRDFDCCLVPLIAESGNKLDL  
VISRNPLASQKSIDQQSLPGDWSEQNSAFFQQPSHGGNLETREPTNTL

>sp|Q9HAV7|GRPE1\_HUMAN GrpE protein homolog 1, mitochondrial OS=Homo sapiens GN=GRPE1  
PE=1 SV=2

MAAQCVRLARRSLPALALSLRPSRLLCTATKQKNSGQNLEEDMGQSEKADPPATEKTL  
LEEKVKLEEQLKETVEKYKRALADTENLRQRSQKLVEEAKLYGIQAFCKDLLEVADVLEK  
ATQCVPKKEIKDDNPHLKNLYEGLVMTEVQIQKVFTKHGLLKLNPVGAKFDPYEHEALFH  
TPVEGKEPGTVALVSKVGYKLHGRTLRLPALVGVVKEA

>sp|Q9BQ67|GRWD1\_HUMAN Glutamate-rich WD repeat-containing protein 1 OS=Homo sapiens  
GN=GRWD1 PE=1 SV=1

MAARKGRRRTCTETGEPMEAESGDTSSGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRA  
QTGAPCLSFDIVRDHLGDNRTPLTLTLYLCAGTQAESAQSNRLMMLRMHNLHGKPPPPSE

GSDEEEEEDEDEEERKPQLELAMVPHYGGINRVRVSWLGEEPVAGVWSEKQQVEVFAL  
RRLQLVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEGFALDWSRVGTGRLLTGDCQKNIH  
LWPTDGGSWHVDQRPVFGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM  
LTTATAHDGDVNVISWSRREPFLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVE  
WHPQDSGVFAASGADHQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKEL  
HWWPQCPGLLVSTALSGFTIFRTISV

>sp|A8MUP6|GS1L2\_HUMAN Germ cell-specific gene 1-like protein 2 OS=Homo sapiens GN=GS1L2  
PE=3 SV=3

MDRAKQQQALLLPVCLALTFSLTAVVSSHCEGTRRVVKPLCQDQPGGQHCHFKRDN  
SNGRMDNNSQAVLYIWELGDDKFIQRGFHVGLWQSCEESLNGEDEKCRSFRSVVPAEEQG  
VLWLSIGGEVLDIVLILTSAILGSRVSCRSPGFHWLRVDALVAIFMVLAGLLGMVAHMM  
YTTIFQITVNLGPEDWKPQTWDYGWSYCLAWGSFALCLAVSVSAMSRTAARLEFTEKQQ  
AQNGSRHSQHSFLEPEASESIWKTGAAPCPAEQAFRNVSGHLPPGAPGKVSIC

>sp|P08263|GSTA1\_HUMAN Glutathione S-transferase A1 OS=Homo sapiens GN=GSTA1 PE=1 SV=3

MAEKPKLHYFNARGRMESTRWLAAAGVEFEKFIKSAEDLDKLRNDGYLMFQQVPMVEI  
DGMKLVQTRAILNYIASKYNLYGKDIKERALIDMYIEGIADLGEMILLPVCPPPEEKDAK  
LALIKEKIKNRYFPAFEKVLKSHGQDYLVGKLSRADIHLVELLYVEELDSSLISSFPL  
LKALKTRISNLPVKKFLQPGSPRKPPMDEKSLEEARKIFRF

>sp|P09488|GSTM1\_HUMAN Glutathione S-transferase Mu 1 OS=Homo sapiens GN=GSTM1 PE=1 SV=3

MPMILGYWDIRGLAHAIRLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNL  
PYLIDGAHKITQSNAILCYIARKHNLCGETEEKIRVDILENQTMNDHMLGMICYNPEF  
EKLKPKYLEELPEKLKLYSEFLGKRPFAGNKITFVDLFLVDLHLRIFEPKCLDAFPN  
LKDFISRFEGLEKISAYMKSSRFLPRPVFSKMAVWGNK

>sp|Q03013|GSTM4\_HUMAN Glutathione S-transferase Mu 4 OS=Homo sapiens GN=GSTM4 PE=1 SV=3

MSMTLGYWDIRGLAHAIRLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNL  
PYLIDGAHKITQSNAILCYIARKHNLCGETEEKIRVDILENQAMDVSNQLARVCYSPDF  
EKLKPEYLEELPTMMQHFSQFLGKRPFVGDKITFVDLFLVDLHLRIFEPNCLDAFPN  
LKDFISRFEGLEKISAYMKSSRFLPKPLYTRVAVWGNK

>sp|P09211|GSTP1\_HUMAN Glutathione S-transferase P OS=Homo sapiens GN=GSTP1 PE=1 SV=2

MPPYTVVYFPVRGCAALRMLLADQGQSWKEEVVTVETWQEGSLKASCLYGQLPKFQDGD  
LTLYQSNITLRLGLRGLGLYKGDQQAALVDMVNDGVEDLRCKYISLIYTNYEAGKDDYV  
KALPGQLKPFETLLSQNGGKTFIVGDQISFADYNLLDLLLIHEVLAPGCLDAFPLLSAY  
VGRLSARPKLKAFLASPEYVNLPIGNGKQ

>sp|Q86UP8|GTF2A\_HUMAN General transcription factor II-I repeat domain-containing protein  
2A OS=Homo sapiens GN=GTF2IRD2 PE=1 SV=2

MAQVAVSTLPVEEESSETRMVVTFVLVSALESMCKELAKSKAEVACIAVYETDVFVVGTE  
RGCAFNARTDFQKDFAKYCAEGLCEVKPPCPVNGMQVHSGETEILRKAVEDYFCFCYG  
KALGTTVMVPVPEKMLRDQSAVVVQGLPEGVAFQHPENYDLATLKWILENKAGISFIIN  
RPFLGPESQLGGPGMVTDAERSIVSPSESCGPINVKTEPMEDSGISLKAEAVSVKKESED  
PNYYQYNMQGSHPSSTSNEVIEMLPMEDSTPLVPSEEPNEDPEAEVKIEGNTNSSSVTN  
SAAGVEDLNIVQVTPDNEKERLSSIEKIKQLREQVNDLFSRKFGAIGVDFPVKVPYRK  
ITFNPGCVIDGMPPGVVFKAPGYLEISSMRRIEAAEFIKFTVIRPLPGLLELSNVGKRK  
IDQEGRVFQEKWERAYFFVEVQNIPTCLICKQSMSVSKEYNLRRHYQTNHSHYDQYMER  
MRDEKLHELKGLRKYLGLSDTECEQKQVFAHPSPTQKSPVQPVEDLAGNLWEKLREK



IRSFVAYSIAIDEITDINNTQLAIFIRGVDFVSEELDTVPMGTGKSGNEIFSRVE  
KSLKKFCIDWSKLVSVASTGTPAMVDANGLVTKLKSRVATFCKGAELKSICCIHPESL  
CAQKLKMDHVMVVKSVNWCISRLNHSEFTLLYELDSQYGSLLYYTEIKWLSRGLVL  
KRFFESLEEIDFSMSSRGKPLQLSSIDWIRDLAFLVDMTHLNLNISLQGHSQIVTQM  
YDLIRAFKAKLCLWETHLTRNNLAHFPTKLASRNESDGLNYIPKIAELKTEFQKRLSDF  
KLYESELTLFSSPFSTKIDSVHEELQMEVIDLQCNTVLKTKYDKVGIPEFYKYLWGSYPK  
YKHHCAKILSMFGSTYICEQLFSIMKLSKTKYCSQLKDSQWDSVLHIAT

>sp|Q4AE62|GTDC1\_HUMAN Glycosyltransferase-like domain-containing protein 1 OS=Homo sapiens GN=GTDC1 PE=2 SV=1

MSILIEAFYGGSHKQLVDLLQEELGDCVVYTLPAKKWHWRARTSALYFSQTIPISEHYR  
TLFASSVLNLTALALRPDLGKLKILYFHENQLIYPVKKCQERDFQYGYNQILSCLVAD  
VVVFNSVFNMESFLTSMGKFMKLIPDHRPKDLESIIRPKCQVIYFPIRFPDVS RFMPKHK  
TTHLKKMLGLKGNGGAVLSMALPFQPEQRDSEDLKKNFNSECDTHCGLDTARQEYLGNSL  
RQESDLKKSTSSDNSSSHGENKQNLTVDPDILGGVDNQRLHIVWPHRWEHDKDPES  
FFKVLMLKDLGLNFHVSVLGETFTDVPDIFSEAKKALGSSVLHWGYLPSKDDYFQVLCM  
ADVVISAKHEFFGVAMLEAVYCGCYPLCPKDLVYPEIFPAEYLYSTPEQLSKRLQNFCK  
RPDIIRKHLKYGEIAPFSWAALHGKFRSLLTTEPREDL

>sp|P11169|GTR3\_HUMAN Solute carrier family 2, facilitated glucose transporter member 3 OS=Homo sapiens GN=SLC2A3 PE=1 SV=1

MGTQKVTPALIFAITVATIGSFQFGYNTGVINAPEKIIKEFINKTLTDKGNAPPSEVLLT  
SLWSLSVAIFSVGGMIGSFSVGLFVNRFGRNSMLIVNLLAVTGGCFMGLCKVAKSVEML  
ILGRLVIGLFCGLCTGFVPMYIGEISPTALRGAFGTNLNQLGIVVGILVAQIFGLEFILGS  
EELWPLLLGFTILPAILQSAALPCPESPRFLLINRKEEENAKQILQRLWGTQDVSQDIQ  
EMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLSQQLSGINAVFYYSTGIFKDAG  
VQEPIYATIGAGVNTIFTVVSFLVERAGRRTLHMIGLGMAFCSTLMTVSLLLKDYN  
GMSFVCIGAILVFVAFFEIGPGPIPFIVAELFSQGPRPAAMAVAGCSNWTNLFVGLLF  
PSAAHYLGAYVFIIFTGFLITFLAFTFFKVPETRGRTFEDITRAFEQQAHGADRSGKDG  
MEMNSIEPAKETTTNV

>sp|Q9NY64|GTR8\_HUMAN Solute carrier family 2, facilitated glucose transporter member 8 OS=Homo sapiens GN=SLC2A8 PE=1 SV=3

MTPEDPEETQPLLGPFGSAPRGRRVFLAAFAAALGPLSFGFALGYSSPAIPSLQRAAPP  
APRLDDAAASWFGAVVTLGAAAGGVLGGWLVDRAGRKLSLLLCVVPFVAGFAVITAAQDV  
WMLLGGRLLTGLACGVASLVAPVYISEIAYPAVRGLLGSCVQLMVVVGILLAYLAGWVLE  
WRWLAVLGCVPPLMLLLMCFMPETPRFLLTQHRRQEAMAALRFLWGSEQGWEDPPIGAE  
QSFHLALLRQPGIYKPFIIIGVSLMAFQQLSGVNAVMFYAETIFEEAKFKDSSLASVVVG  
IQVLFTAVAALIMDRAGRRLLLVLSGVVMVFSTSAFGAYFKLTQGGPGNSSHVAISAPVS  
AQPVDASVGLAWLAVGSMCLFIAGFAVGWGPWPWLLMSEIFPLHVKGAVTGICVLTNWLM  
AFLVTKEFSSLMEVLRPYGAFWLASAFCIFSVLFTLFCVPETKGKTLEQITAHFEGR

>sp|Q86UQ5|GTSC1\_HUMAN Gilles de la Tourette syndrome chromosomal region candidate gene 1 protein OS=Homo sapiens GN=GTSCR1 PE=5 SV=2

MQSDIYHPGHSFPSWVLCWVHSCGHEGHLRETAERKTHQNGDLQIRGGRGRRESTEIFQ  
VASVTEGEESPPAICMEVFLFLWFIAPYACVCRIFKIQVRNTVKNSSTASLAPSISTSE  
ERQIRIERHHYHLYGQ

>sp|Q49A17|GLTL6\_HUMAN Polypeptide N-acetylgalactosaminyltransferase-like 6 OS=Homo sapiens GN=GALNTL6 PE=2 SV=2

MKRKQKRFLQMTLLFTVALIFLPNVGLWSLYKDKHLVKS AEPGEQQTFPLGLGDGQFYSW  
TDGLRRKDWHDYESIQKEAMRSGKGEHGKPYPLTEEDHDD SAYRENGFNIFVSNNIALER  
SLPDIRHANCKHKMYLERLPNTSIIIPFHNEGWTSLLR TIHSIINRTPGSLIAEIIILVDD  
FSEREHLKDKLEEYMARFSKVRIVRTKKREGLIRTRLLGAS MARGEVLTFLD SHCEVNVN  
WLPPLNQIALNHKTI VCPMIDVIDHNHFGYEAQAGDAMRGAFDWEMYYKRIPIPELQR  
ADPSDPFESPVMAGGLFAVDRKWFWE LGGYDPGLEI WGGEQYEISFKVW MCGGEMFDVPC  
SRVGHIYRKYPVPYKPSGTS LARNLKRVAETWMEFAEYIYQRRPEYRHLSTGDISAQKE  
LRKQLKCKDFKWFMAAVAWDVPKYYPPEPPPAWGEIRNVAANLCVDSKHGATGTELRL  
DICVKDGSERTWSHEQLFTFGWREDIRPGEPLHTRKFCFDAISHNSPTLYDCHGMKGNQ  
LWGYRKDRTLFHPVSNSCMDCNPAEKKIFMARCDPLSETQQWIFEHINMTVLEKFNHHAN  
S

>sp|P50148|GNAQ\_HUMAN Guanine nucleotide-binding protein G(q) subunit alpha OS=Homo sapiens GN=GNAQ PE=1 SV=4

MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELK LLLLGTGESGKSTFIKQMR  
IIHSGYSDEDKRGFTKL VYQNI FTAMQAMIRAMDTLKI PYKYEHNKAHAQLVREVDVEK  
VSAFENPYVDAIKSLWNDPGIQECYDRRREYQLSDSTKY YLNDLDRVADPAYLPTQQDVL  
RVRVPTTGII EYPFDLQSVIFRMVDVGGQRSERRKWIHCFENVTSIMFLVALSEYDQVLV  
ESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLEEKIMYSHLV DYPFEYDGPQR  
DAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAAVKDTILQLNLKEYNLV

>sp|P63092|GNAS2\_HUMAN Guanine nucleotide-binding protein G(s) subunit alpha isoforms short OS=Homo sapiens GN=GNAS PE=1 SV=1

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRL LLLGAGESGKSTIVKQM  
RILHVNGFN GEGGEDPQAARSNSDGEKATKVQDIKNNLKEA IETIVAAMSNLVPVELA  
NPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVRACYERSNEYQLIDCAQYFLD  
KIDVIKQADYVPSDQDLLRCRVLTS G IFETKFQVDKVNFMFDVGGQRDERRKWIQCFND  
VTAIIFV VASSSYNVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK  
VLGKSKIEDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEF LRISTASGDGRHYCY  
PHFTCAVDTENIRRVFNDCRDI IQRMHLRQYELL

>sp|O15228|GNPAT\_HUMAN Dihydroxyacetone phosphate acyltransferase OS=Homo sapiens GN=GNPAT PE=1 SV=1

MESSSSSNSYFSVGPTSPSAVLLYSKELKKWDEFEDILEERRHVSDLKFAMKCYTPLVY  
KGITPCPKPIDIKCSVLNSEEIHVYIKQLSKESLQSVDV LREEVSEILDEMSHKLRLGAIR  
FCAFTLSKVFKQIFSKVCVNEEGIQKLQRAIQEHPVLLPSHRSYIDFLMLSFLLYNYDL  
PVPVIAAGMDFLGMKMGELLRMSGAFFMRRTFGGNKLYWAVFSEYVKTMLRNGYAPVEF  
FLEGTRSRSAKTLTPKFGLLNIVMEPFFKREVFD TYLVPISISYDKILEETLYVYELLGV  
PKPKESTTGLLKARKILSENFGSIHVYFGDPVSLRSLAAGRMSRSSYNLVPRYIPQKQSE  
DMHAFVTEVAYKMELLQIENMVLSPWTLIVAVLLQNRPSMDFDALVEKTLWLKGLTQA FG  
GFLIWPDNKPAEEVVPASILLHSNIASLVKDQVILKVDSGDSEVVDGLMLQHITLLMCSA  
YRNQLLNIFVRPSLVAVALQMTPGFRKEDVYSCFRFLRDVFADEFIFLPGNTLKDFEEGC  
YLLCKSEAIQVTTKDILVTEKGNTVLEFLVGLFKPFVESYQIICKYLLSEEDHFSEEQY  
LAAVRKFTSQLLDQGTSCQYDVLSSDVQKNALAACVRLGVVEKKKINNNCIFNVNEPATT  
KLEEMLGCKTPIGKPATAKL

>sp|Q8TBA6|GOGA5\_HUMAN Golgin subfamily A member 5 OS=Homo sapiens GN=GOLGA5 PE=1 SV=3  
MSWFDLAGKAEDLLNRVDQGAATALSRKDNASNIYSKNTDYTELHQQNTDLIYQTGPKS  
TYISSAADNIRNQKATILAGTANVKVGSRTPEASHPVENASVPRSSHVRRKKSEPDD  
ELLFDLNLSSQKEPTGRVEIRKEKGKTPVFQSSQTSSVSSVNPSTTIKTEENSGFSQT  
HEAASNSDSSHEGQEESKENVSSNAACPDHTPTNDDGKSHELNLRLLENQLLRNEVQS  
LNQEMASLLQRSKETQEELNKARARVEKWNADHSKSDRMTRGLRAQVDDLTEAVAAKDSQ  
LAVLKVRLQEQADQLSTRTEALEALQSEKSRIMQDQSEGNLQNLQALQTFQERLHEADAT  
LKREQESYKQMSEFAARLNKVEMERQNLAEAITLAERKYSDEKKRVDELQQQVKLYKLN  
LESSKQELIDYKQKATRILQSKEKLINSLKEGSGFEGLDSSSTASSMELEELRHEKEMQRE  
EIQKLMGQIHQLRSELQDMEAQQVNEAESAREQLQDLHDQIAGQKASKQELETelerLKK  
EFHYIEEDLYRTKNTLQSRIKDRDEEIQKLRNQLTNKTLSSSSQSELENRLHQLTETLIQ  
KQTMLESLSSTEKNSLVFQLERLEQQMNSASGSSSSNGSSINMSGIDNGEGTRLRNVPVLFN  
DTETNLAGMYGKVRKAASSIDQFSIRLGIFLRRYPIARVFVIIYMALLHLWVMIVLLTYT  
PEMHHDQPYGK

>sp|P21695|GPDA\_HUMAN Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic OS=Homo sapiens GN=GPD1 PE=1 SV=4  
MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWVFEEDIGGKKLTEIINTQHEN  
VKYLPGHKLPPNVVAVPDVVQAAEDADILIFVVPHQFIGKICDQLKGHLKANATGISLIK  
GVDEGPNGKLKISEVIGERLGIPMSVLMGANIASEVADEKFCETTIGCKDPAQGQLLKEL  
MQTPNFRITVTVQEVDTVEICGALKNVVAVGAGFCDGLGFGDNTKAAVIRGLMEMIAFAK  
LFCSGPVSSATFLESCGVADLITTCYGGNRKVAEAFARTGKSIEQLEKELLNGQKLQGP  
ETARELYSILQHKLVDKFPLFMAVYKVCYEGQPVGEFIHCLQNHPEHM

>sp|Q99527|GPER1\_HUMAN G-protein coupled estrogen receptor 1 OS=Homo sapiens GN=GPER1 PE=1 SV=1  
MDVTSQARGVGLEMPGTAQPAAPNTTSPELNLSHPLLGTALANGTGELSEHQYVIGLF  
LSCLYTIFLFPIGFVGNILILVNNISFREKMTIPDLYFINLAVADLILVADSLIEVFNH  
ERYDYIAVLCTFMSLFLQVNMYSVFFLTWMSFDRYIALARAMRCSLFRTKHHARLSCGL  
IWMASVSATLVPFTAVHLQHTDEACFCFADVREVQWLEVTLGFIVPFAIIGLCYSLIVRV  
LVRAHRHRGLRPRRKALRMILAVVLVFFVCWLPENVFISVHLLQRTQPGAAPCKQSFRH  
AHPLTGHIVNLAAFSNSCLNPLIYSFLGETFRDKLRLYIEQKTNLPALNRFCHAALKAVI  
PDSTEQSDVRFSSAV

>sp|Q14956|GPNMB\_HUMAN Transmembrane glycoprotein NMB OS=Homo sapiens GN=GPNMB PE=1 SV=2  
MECLYYFLGFLLLAARLPLDAAKRFHDVLGNERPSAYMREHNQLNGWSSDENDWNEKLYP  
VWKRGMRWKNSWKGRVQAVLTSDSPALVGSNITFAVNLIFPRCQKEDANGNIVYEKNC  
RNEAGLSADPYVYNWTAWSESDGNGTGQSHHNVPDGGKPFPHPGWRRWNFIYVFHTL  
GQYFQKLGRCSVRVSVNTANVTLGPQLMEVTVYRRHGRAYVPIAQVKDVYVVTQIPVFV  
TMFQKNDNRSSDETFLKDLPIIMFDVLIHDP SHFLNYSTINYKWSFGDNTGLFVSTNHTVN  
HTYVLNGTFSLNLTVKAAAPGPCPPPPPPRPSKPTPSLATTLKSYDSNTPGPAGDNPLE  
LSRIPDENCQINRYGHFQATITIVEGILEVNI IQMTDVLMPVPWPESLIDFVVTQCGSI  
PTEVCTIISDPTCEITQNTVCSPPVDVDEMCLLTVRRTFNGSGTYCVNLTGDDTSLALTS  
TLISVPDRDPASPLRMANSALISVGCLAIFVTVISLLVYKKHKEYNPIENSPGNVVRSKG  
LSVFLNRAKAVFFPGNQEKDPLLKNQEFKGV

>sp|A8MXD5|GRCR1\_HUMAN Glutaredoxin domain-containing cysteine-rich protein 1 OS=Homo sapiens GN=GRXCR1 PE=1 SV=1

MLKREMKPESDRPRKVRFRRIASSHSGRVLKEVYEDGQPSGSLDSECASICGIDGLGSDG  
QQNGHIESEGDENENDQDSLLVLARAASEKGFGRTRRVNLSKNGTVRGVKYKVSAGQALF  
NNLTKVLQQPSTDLEFDRVVIYTTCLRVVRTTFERCELVRKIFQNRHVKEEKNIALNGE  
YGKELDERCRRVSEAPSLPVVFDGHYLGGAEEKILSMNESGELQDILTKIERVQHPHECP  
SCGGFGFLPCSVCHGSKMSMFRNCFTDSFKALKCTACNENGLQRCKNCAG

>sp|A4D2P6|GRD2I\_HUMAN Delphilin OS=Homo sapiens GN=GRID2IP PE=3 SV=2

MATTATPATNQGWPEDFGRLGGSGPCFVLEVAKGSSAHAGGLRPGDQILEVEGLAVGGL  
SRERLVRLLARRCPRVPPSLGVLPA PDGGPGSGPAAPTTLRAPRCGRGLALGRELLRL  
AGRKRPDAVHRERRRKAQEF SRKVD EILGDQPTAKEQVFAALKQFAAEQRVDDLVTTL  
ALPREACGPLLDNLRIFIPKKHRRARFDEVVSQGLLGKLCRARRAQGAQRLRRSRSEERPE  
RLLVSTRASAPRRRDEPPRRASLLVGGLAGPGGARRTVRVYKGNKSFGFTLRGHGPVW  
IESVLPSPADNAALKSGDRILFLNGLDMRNCSDHKVVSMLQSGSAMPTLVVEGLVPFA  
SDSDSLDSPNPSSALTSQWVAEILPSSIRVQGRTFSSQLEHLLTPPERYGVCRALLESFF  
QHRNIDTLIVDVYPVLDTPAKQVLWQFIYQLLYEEQELCQEKIACFLGYTAMTAEPEPE  
LDLESEPTPEPQPRSSLRASSMCRRSLRSQGLEAGLSCGPSECPEMPLPLIPGERQAGDG  
TSLPETPNPKMMSAVYAELESRLNSSFKGKMGTVSKSRASPPGPSPAVTTGPRTLSGVSW  
PSERLLPSPCYHPLCSGGLASPSSESHPYASLDSSRAPSPQPGPGPICPDSPPSPDPTR  
PPSRRKLFTFSHPVRSRDTDRFLDVLSEQLGPRVTIVDDFLT PENDYEEMSFHDDQGSFV  
TNERSSASDCISSSEEGSSLYSSISDHIPPPPLSPPPPPPLPFHDAKPSSRSSDGSRG  
AQALAKPLTQLSHVPPPPPPPLPPVPCAPMLSRGLGHRSETSHMSVKRLRWEQVEN  
SEGTIWGQLGEDSDYDKLSDMVKYLDLELHFGTQKPAKPVPGEPEFRKKEVVEILSHKKA  
YNTSILLAKLSPAELRQVLMSMEPRRLEPAHLAQLLL FAPDADEEQRYQAFREAPGRL  
SEPDQFVLQMLSVPEYKTRLRLSHFQATLQEKT EIRGSLECLRQASLELKNSRKLAKIL  
EFVLAMGNYLNDGQPKTNKTTGFKINFLTELNSTKTVDGKSTFLHILAKSLSQHFPELLG  
FAQDLPTVPLAAKNQALTSDLADLHGTISEIQDACQSISPSSSEDKFAMVMSSFLETAQ  
PALRALDGLQREAMEELGKALAFFGEDSKATTSEAFFGIFAEFMSKFERALSDLQAGEGL  
RSSGMVSP LAW

>sp|Q9H772|GREM2\_HUMAN Gremlin-2 OS=Homo sapiens GN=GREM2 PE=2 SV=1

MFWKLSLSLFLVAVLVKVAEARKNRPAIPAIPSPYKDGSSNNSERWQHQIKEVLASSQEAL  
VVTERKYLKSDWCKTQPLRQTVSEEGCRSRTILNRF CYGQCNSFYIPRHVKKEEESFQSC  
AFCKPQRVTSVLVELECPGLDPPFRLKKIQKVKQCRCMSVNLSDSDKQ

>sp|Q9NZI5|GRHL1\_HUMAN Grainyhead-like protein 1 homolog OS=Homo sapiens GN=GRHL1 PE=1  
SV=2

MTQEYDNKRPLVLQNEALYPQRRSYTSEDEAWKSFLENPLTAATKAMMSINGDEDSAAA  
LGLLDYDYKVP RRERSSTAKPEVEHPEPDH SKRNSIPIVTEQPLISAGENRVQLKNVPF  
NIVLPHGNQLGIDKRGH LTAPDTTVTVSIATMPTHSIKTETQPHGF AVGIPPAVYHPEPT  
ERVVVFDRLNLT DQFSSGAQAPNAQRRTPDSTFSETFKEGVQEVFFPSDL SLRMPGMNSE  
DYVFD SVSGNNFEYTL EASKSLRQKPGDSTMTYLNKGQFYPI TLKEVSSSEGIHHPISKV  
RSVIMVVF AEKSR EDQLRH WKYWSRQHTAKQRCIDIADYKESFNTISNIEE IAYNAIS  
FTWDINDEAKV FISVNC LSTDFSSQKGVKGLPLNIQVD TYSYNNRSNKPVHRAYCQIKVF  
CDKGAERKIRDEERKQSKRKVSDVKVPLLP SHKRM DITVFKPFIDLTQPVLFIPDVHFA  
NLQRGTHVLP IASEELEGE GSVLKRGPYGTEDDFAVPPSTKLARIEEPKRVLLYVRKESE  
EVFDALMLKTPSLKGLME AISDKYDVPHDKIGKIFKKCKGILVNMDDNIVKHYSNEDTF  
QLQIEEAGGSYKLT LTEI

>sp|Q6ISB3|GRHL2\_HUMAN Grainyhead-like protein 2 homolog OS=Homo sapiens GN=GRHL2 PE=1 SV=1

MSQESDNNKRLVALVPMPSDPPFNTRRAYTSEDEAWKSYLENPLTAATKAMMSINGDEDS  
AAALGLLYDYKVPDRKRLSVSKASDSQEDQEKRNCLGTSEAQSNLSGGENRVQVLKTV  
PVNLSLNQDHLENSKREQYSISFPESSAIIPVSGITVVKAEDFTPVFMAPPVHYPRGDGE  
EQRVVFIEQTQYDVPSLATHSAYLKDDQRSTPDSTYSESFKDAATEKFRSASVGAEEMY  
DQTSSGTFQYTLKSLRQKQEGPMTYLNKGQFYAITLSETGDNKCFRHPISKVRSVV  
MVVFSQEDKNRDEQLKYWKYWSRQHTAKQRVLDIADYKESFNTIGNIEEIAYNVASFWD  
VNEEAKIFITVNCLSTDFSSQKGVKGLPLMIQIDTYSYNNRSNKPIHRAVCQIKVFCDKG  
AERKIRDEERKQNRKKGKQASQTQCNSSSDGKLAAPLQKKS DITYFKTMPDLHSQPVL  
FIPDVHFANLQRTGQVYYNTDDEREKGSVLVKRMFRPMEEFGPVPSPKQMKKEGTRVLL  
YVRKETDDVFDALMLKSPTVKGLMEAISEKYGLPVEKIAKLYKSKKGILVNMDNIEH  
YSNEDTFILNMESMVEGFKVTLMET

>sp|Q8TE85|GRHL3\_HUMAN Grainyhead-like protein 3 homolog OS=Homo sapiens GN=GRHL3 PE=1 SV=3

MSNELDFRSVRLKNDPVNLQKFSYTSSEDEAWKTYLENPLTAATKAMMRVNGDDSDVAAL  
SFLYDYMGPKERILSSSTGGRNDQGKRYHGMETDLETPLESPTLTKFLTENVSGT  
PEYDPLKKNLMSLEGALPTPGKAAPLPAGPSKLEAGSVDSYLLPTTDMYDNGSLNSLF  
ESIHGVPPTQRWQPDSTFKDDPQESMLFPDILKTSPEPPCPEDYPSLKSDFEYTLGSPKA  
IHKSGESPMAYLNKGQFYPTLRTAGGKGLALSSNKVSVVMVFDNEKVPVEQLRFW  
KHWSRQPTAKQRVIDVADCKENFTVEHIEEVAYNALSFWNVNNEAKVFIGVNCLSTD  
FSSQKGVKGVPLNLQIDTYDCGLGTERLVHRAVCQIKIFCDKGAERKMRDDERKQFRRKV  
KCPDSSNSGVKGCLLSGFRGNETTYLRPETDLETPPVLFIPNVHFSSLRSGGAAPSAGP  
SSSNRLPLKRTCSPTFEFEPLPSKQAKEGDLQRVLLYVRRETEEVFDALMLKTPDLKGL  
RNAISEKYGFPEENIYKVKCKRGETSLLHPRLSRHPPDCLECSHPVTQVRNMGFGDG  
FWRQRDLDSNPSTTVNSLHFTVNSE

>sp|P42261|GRIA1\_HUMAN Glutamate receptor 1 OS=Homo sapiens GN=GRIA1 PE=1 SV=2

MQHIAFFCTGFLGAVGANFPNNIQIGGLFPNQSQEHAARFALSQLETPPKLLPQID  
IVNISDSFEMTYRFSQSFGVYAIFFGYERRTVNMLTSFCGALHVCFITPSFPVDTSNQ  
FVLQLRPELQDALISIIDHYKWQKFVYIYDADRGLSVLQKVLDTAAEKNWQVTAVNLT  
TEEGYRMLFQDLEKKERLVVDCESERLNLGQIIKLEKNGIGYHYILANLGFMDIDL  
NKFKEGANVTGFQLVNYTDTIPAKIMQWKNSDARDHTRVDWKRPKYTSALTYDGVKVM  
AEAFQSLRRQRIDISRRGNAGDCLANPAVPWGQGIDIQRALQQVRFEGLTGNVQFNEKGR  
RTNYTLHVIEKMDGIRKIGYWNEDDKFVPAATDAQAGDNSSVQNRITYIVTTILEDPYV  
MLKKNANQFEGNDRYEGYCVLAAEIAKHVGYSYRLEIVSDGKYGARDPDTKAWNGMVGE  
LVYGRADVAVAPLTITLVREEVIDFSKPFMSLGISIMIKPKQSKPGVFSFLDPLAYEIW  
MCIVFAYIGVSVVLFLVSRFSPEYHSEEFEEGRDQTTSDQSNEFGIFNSLWFSLGAFMQ  
QGCDISPRSLSGRIVGGVWFFTLIISSYTANLAAFLTVERMVSPIESAEDLAKQTEIA  
YGTLEAGSTKEFFRRSKIAVFEKMWTYMKSAEPSVFVRTTEEGMIRVRKSKGYAYLLES  
TMNEYIEQRKPCDTMKVGGNLDKSGYGIATPKGSALRNPVNLAVLKLNEQGLLDKLNKW  
WYDKGECGSGGDSKDKTSALSLSNVAGVFYILIGGLGLAMLVALIEFCYKRSSESKRMK  
GFCLIPQQSINEAIRSTLPRNSGAGASSGGSGENGRVSHDFPKSMQSI PCMSHSSGMP  
LGATGL

>sp|P42262|GRIA2\_HUMAN Glutamate receptor 2 OS=Homo sapiens GN=GRIA2 PE=1 SV=3

MQKIMHISVLLSPVLWGLIFGVSSNSIQIGGLFPRGADQEYSAFRVGMVQFSTSEFRLTP  
HIDNLEVANSFAVTFNAFCSQFSRGVYAIIFGFYDKKSVNTITSFCGTLHVSFITPSFPTDG  
THPFVIQMRPDLKGALLSLIEYYQWDFAYLYDSRGLSTLQAVLDSAAEKKWQVTAINV  
GNINNDKKDEMYRSLFQDLELKKERRVILDCERDKVNDIVDQVITIGKHVKGYHYIIANL  
GFTDGDLLKIQFGGANVSGFQIVDYDDSLVSKFIERWSTLEEKEYPGAHTTTIKYTSALT  
YDAVQVMTEAFRNLKQRIEISRRGNAGDCLANPAVPWGQGVETIERALKQVQVEGLSGNI  
KFDQNGKRINYTIMELKTNGPRKIGYWSEVDKMVVTLTLPSPGNDTSGLENKTVVVT  
ILESPPVMMKNHEMLEGNEREYEGYCVDLAAEIAKHCGFKYKLTIVGDGKYGARDADTKI  
WNGMVGELVYGKADIAIAPLTITLVREEVIDFSKPFMSLGISIMIKKPQKSKPGVFSFLD  
PLAYEIWMCIVFAYIGVSVVLFLVSRFSPYEWHTTEFEDGRETQSSESTNEFGIFNSLWF  
SLGAFMQGCDISPRSLSGRIVGGVWWFFTLIIISSYTANLAAFLTVERMVSPIESAEDL  
SKQTEIAYGTLDSGSTKEFFRRSKIAVFDKMWTYMRSAEPSVFVRTTAEGVARVRKSKGK  
YAYLLESTMNEYIEQRKPCDTMKVGGNLDKSGYGIATPKGSSLRNAVNLAVLKLNEQGLL  
DKLKNKWWYDKGECGSGGDSKEKTSALSLSNVAGVFYILVGGLGLAMLVALIEFCYKSR  
AEAKRMKVAKNAQNINPSSSQNSQNFATYKEGYNVYGIESVKI

>sp|P48058|GRIA4\_HUMAN Glutamate receptor 4 OS=Homo sapiens GN=GRIA4 PE=2 SV=2

MRIISRQIVLLFSGFWGLAMGAFPSVQIGGLFIRNTDQEYTAFLAIFLHNTSPNASEA  
PFNLVPHVDNIETANSFAVTFNAFCSQFSRGVFAIFGLYDKRSVHTLTSFCSALHISLITP  
SFPTGESQFVLQLRPSLRGALLSLLDHYEWNCFVFLYDTRGYSILQAIMEKAGQNGWH  
VSAICVENFNDVSYRQLLEELDRRQEKKFVIDCEIERLQNIQIVSVGKHVKGYHYIIA  
NLGFKDISLERFIHGKANVTGFQLVDFNTPMVIKLMRWKKLDQREYPGSETPPKYTSAL  
TYDGVLVMAETFRSLRRQKIDISRRGNAGDCLANPAAPWGQGDIMERTLKQVRIQGLTGN  
VQFDHYGRRVNYTMDVFELKSTGPRKVGYNWMDKLVLIQDVPTLGNDTAAIENRTVVVT  
TIMESPPVMMKNHEMFEGNDKYEGYCVDLASEIAKHIGIKYKIAIVPDGKYGARDADTK  
IWNGMVGELVYGKAEIAIAPLTITLVREEVIDFSKPFMSLGISIMIKKPQKSKPGVFSFL  
DPLAYEIWMCIVFAYIGVSVVLFLVSRFSPYEWHTTEPEDGKEGSPDQPPNEFGIFNSLW  
FSLGAFMQGCDISPRSLSGRIVGGVWWFFTLIIISSYTANLAAFLTVERMVSPIESAED  
LAKQTEIAYGTLDSGSTKEFFRRSKIAVYEKMWTYMRSAEPSVFTRTTAEGVARVRKSKG  
KFAFLLESTMNEYIEQRKPCDTMKVGGNLDKSGYGVATPKGSSLRTPVNLAVLKLSEAGV  
LDKLKNKWWYDKGECGPKDSGSKDTSALSLSNVAGVFYILVGGLGLAMLVALIEFCYKS  
RAEAKRMKLTFSIAIRNKARLSITGSGENGRVLTDCPKAVHTGTAIRQSSGLAVIASD  
LP

>sp|A4D1Z8|GRIFN\_HUMAN Grifin OS=Homo sapiens GN=GRIFIN PE=2 SV=4

MAVQSKAFCAAGLAPGWKLLVQGHADSGEDRFETNFFLETGDIAFHKPRFSSATVVGNA  
FQYGRWGPEQVSSIFPLAPGEPFEIEVSWDAEHFHVYAPEHKVLQFPCRQRPLGATTRVR  
VLSDHCLAQVELAKRGLSWGDRGY

>sp|Q7Z2K8|GRIN1\_HUMAN G protein-regulated inducer of neurite outgrowth 1 OS=Homo sapiens  
GN=GPRIN1 PE=1 SV=2

MDTAEDPAWLQLLQKDSSPPGPRPTAFFCPQDQSLGAGSSAMRDYCPSSQKASPAPPRHT  
PDQSPGMESRHRSPSGAGEGASCSDGPRGSLACPSPTCFSPQESPSKETLEAHGASISGT  
PEATTSKGPEPVSSVKTEPKSSDDRNPMFLEKMDFKSSKQADSTSIGKEDPGSSRKADPM  
FTGKAEPEILGKGDVPAPGRMDPMTVRKEDLGS LGKVDPLCSSKTYTVSPRKEDPGSLRK  
VDPVSSDKVDVPFPRKEEPRYSKEHPVSSEKVAPTSAEKVLDVLSGKRDPGPGSKADPM  
PLESMDSASTGKTEPGLLGKLIPGSSGKNGPVSSGTGAPGSLGRLDPTCLGMADPASVGN

VETVPATKEDSRFLGKMDPASSGEGRPVSGHTDTTASAKTDLTSLKNVDPMSSGKVDVPS  
LGKMDPMC SGKPELLSPGQAERVS VGKAGTVSPGKEDPVSSRREDPI SAGSRKTSSEKVN  
PESSGKTNPVSSGPGDPRSLGTAGPPSAVKAEPATGGKGDPLSSEKAGLVASGKAAPTAS  
GKAEPLAVGKEDPVSKGADAGPSGQGDVSVIGKVSTPGKTVPVPSGKVDVPSLGKAEA  
IPEGKVGS LPLEKGS PVT TTKADPRASGKAQPQSGGKAETKLPQGEGAAAPGEAGAVCLK  
KETPQASEKVDPGSCRKAEP L ASGKGEPVSLGKADSAPSRKTESPSLGKV VPLSLEKTKP  
SSSSRQLDRKALGSARSPEGARGSEGRVEPKAEPVSSTEASSLGQKDLEAAGAERSPCPE  
AAAPPPGPRTRDNFTKAPSWEASAPPPPPREDAGTQAGAQACVSVAVSPMSPQDGAGGSF  
SFQAAPRAPSPPSRRDAGLQVSLGAAETRSVATGPMTPQAAAPPAFPEVRVRPGSALAAA  
VAPPEPAEPVRDVS WDEKGMTWEVYGAAMEVEVLGMAIQKHLERQIEEHGRQGAPAPPPA  
ARAGPGRSGSVRTAPPDGA AKRPPGLFRALLQSVRRPRCCSRAGPTAE

>sp|O60269|GRIN2\_HUMAN G protein-regulated inducer of neurite outgrowth 2 OS=Homo sapiens  
GN=GPRIN2 PE=1 SV=2

MSSSRPEPGWPAPLSPRLQPLSQSSSSLLGEGREQRPELRKTASSTVWQAQLGEASTRPQ  
APEEEGNPPESMKPARASGPKARPSAGGHWWSSSTVGNVSTMGGSDLCRLRAPSAAMQRS  
HSDLVRSTQMRHSGARKASLSCSALGSSPVHRAQLQPGGTSGQGGQAPAGLERDLAPED  
ETSNSAWMLGASQLSVPLDLGDTTAHSSSAQAEPKAAEQ LATT TCHALPPAALLCGMRE  
VRAGGCCHALPATGILAFPKLVASVSESLQAQHG VKIHCRLSGGLPGHSHCCAHLWGPA  
GLVPEPGSRTKDVWMTSANDLAPAEASPLSAQDAGVQAAPVAACKAVATSPSLEAPAAL  
HVFPEVTLGSSLEEVPSVPRDVRWDAEGMTWEVYGA AVDLEVLGVAIQKHEMQFEQLQR  
APASEDSLVEGRRGPLRAVMQSLRRPSCCGCSGAAP E

>sp|Q9C0E4|GRIP2\_HUMAN Glutamate receptor-interacting protein 2 OS=Homo sapiens GN=GRIP2  
PE=1 SV=3

MLCGLSRETPGEADDPYSGKGDAGADVSLACRRQSIPEEFRGITVVELIKKEGSTLG  
LTISGGTDKDGKPRVSNLRPGGLAARSDLLNIGDYIRSVNGIHLTRLRHDEIITLLKNVG  
ERVVLEVEYELPPPAPENNPRIISKTVDVSLYKEGNSFGFVLRGGAHEDGHKSRPLVLT  
YVRPGPADREGSLKVGDRLLSVDGIPLHGASHATALATLRQCSHEALFQVEYDVATPDTV  
ANASGLMVEIVKTPGSALGISLT TTTSLRNKSVITIDRIKPASVVDRSGALHPGDHILSI  
DGTSMEHCSLLEATKLLASISEKVRLEILPVPQSRPLRPSEAVKVQRSEQLHRWDPCVP  
SCHSPRPGHCRMPWTATPAGQDQSRSLSTPFSSPTLNHAFSCNNPSTLPRGSQPMSPRT  
TMGRRRQRRREHKSSLSLASSTVPGGQIVHTETTEVVLCDPLSGFGLQLQGGIFATET  
LSSPPLVCFIEPDSPAERCGLLQVGDRLVSLINGIATEDGTMEANQLLRDAALAHKVLE  
VEFDVAESVIPSSGTFHVKLPKKRSVELGITISSASRKRGEPLIISDIKKGSVAHRTGTL  
EPGDKLLAIDNIRLDNCPMEDAVQILRQCEDLVKLKIRKDEDNSDELETTGAVSYTVELK  
RYGGPLGITISGTEEPFDPIVISGLTKRGLAERTGAIHVGDRILAINNVSLKGRPLSEAI  
HLLQVAGETVTLKIKKQLDRPLLPRKSGSLSETSDADED PADALKGGLPAARFSPAVPSV  
DSAVESWDSSATEGGFGGPGSYTPQAAARGTTPQERRPGWLRGSPPTPEPRRTSYTPTPA  
DESFEEEEGGDDWEPPTSPAPGPAREEGFWRMFGEALEDLESCGQSELLREASIMTGT  
VQRVALEGRPGHRPWQRGREVRASPAEMEELLLPTPLEMHKVTLHKDPMRHDFGFSVSDG  
LLEKGVYVHTVRPDGPAHRGGLQPFDRVLQVNVHVRTRDFDCCLAVPLLAEGADVLELIIS  
RKPHTAHSSRAPRSPGPSSPRML

>sp|P43250|GRK6\_HUMAN G protein-coupled receptor kinase 6 OS=Homo sapiens GN=GRK6 PE=1  
SV=2

MELENIVANTVLLKAREGGGGRKSGKSKWRQMLQFPHISQCEELRLSLERDYHSLCERQ

PIGRLLFREFCATRPELSRCVAFLDGVAEYEVTPDDKRKACGRQLTQNFLSHTGPDLIPE  
VPRQLVTNCTQRLEQGPKDLFQELTRLTHEYLSVAPFADYLD SIYFNRFLQWKWLERQP  
VTKNTRFRQYRVLGKGGFGEVCACQVRATGKMYACKKLEKKRIKKRGEAMALNEKQILEK  
VNSRFVVSLAYAYETKDALCLVLTLMNGGDLKFHIYHMGQAGFPEARAVFYAAEICCGLE  
DLHRERIVYRDLKPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTGYMAPEVVKNE  
RYTFSPDWWALGCLLYEMIAGQSPFQQRKKKIKREEVERLVKEVP EEYSERFSPQARSLC  
SQLLCKDPAERLGCRGGSAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVLDI  
EQFSTVKGVELEPTDQDFYQKFATGSVIPWQNMVETECFQELNVFGLDGSVPPDLWDK  
GQPPAPPKGLLQRLFSRQDCCGNCSDSEELPTL

>sp|P28799|GRN\_HUMAN Granulins OS=Homo sapiens GN=GRN PE=1 SV=2

MWTLVSWVALTAGLVAGTRCPDGGFCPVACCLDPGGASYSCCRPLLDKWPTTLRHLGGP  
CQVDAHCSAGHSCIFTVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGRSCFQRSGNNS  
VGAIQCPSDQFECPDFSTCCVMVDGSGCCPMPQASCCEDRVHCCPHGAFCDLVHTRCIT  
PTGTHPLAKKLPQRTNRAVALSSVMCPDARSRCPDGSTCCELP SGKYGCCPMPNATCC  
SDHLHCCPQDTVCDLIQSKCLSKENATD DLLTKLPAHTVGDKDMEVSCPDGYTCCRLQ  
SGAWGCCPFTQAVCCEDHIHCCPAGFTCDTQKGTCEQGPHQVPWMEKAPAHLSLPDPQAL  
KRDVPCDNVSSCPSSDTCCQLTSGEWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGS  
EIVAGLEKMPARRASLSHPRDIGCDQHTSCPVGQTCPSLGGSWACCQLPHAVCCEDRQH  
CCPAGYTCNVKARSCEKEVVSQA PATFLARSPHVGVKDVECGEGHFCHDNQTCCRDNRQG  
WACCPYRQGVCCADRRHCCPAGFRCAARGTKCLRREAPRDAPLRDPALRQLL

>sp|Q6UXU4|GSG1L\_HUMAN Germ cell-specific gene 1-like protein OS=Homo sapiens GN=GSG1L  
PE=1 SV=2

MKTSRRGRALLAVALNLLALLFATTAFLTTHWCQGTQRVKPGCGQGGRANCPNSGANAT  
ANGTAAPAAAAAATASNGPPGGALYSWETGDDRFLFRNFHTGIWYSCEEELSGLGEKC  
RSFIDLAPASEKVLWLSVVSEVLYILLLVVGFSLMCLELFHSSNVIDGLKLNAFAAVFT  
VLSGLLGMVAHMMYTQVFQVTVSLGPEDWRPHSWDYGWSFCLAWGSFTCCMAASVTLNS  
YTKTVIEFRHKRKVFEQGYREEPTFIDPEAIKYFRERMEKRDGSEEDFHLDCRHERYPAR  
HQPMMADSWPRSSAQEAPELNRQCWVLGHV

>sp|Q2KHT4|GSG1\_HUMAN Germ cell-specific gene 1 protein OS=Homo sapiens GN=GSG1 PE=1 SV=2

MAKMELSKAFSGQRTLLSAILSMLSLSTTSLLSNYWFVGTQKVPKPLCEKGLAAKCFD  
MPVSLDGDNTSTQEVVQYNWETGDDRF SFRSFRSGMWLSCEETVEEPALLHPQSWKQFR  
ALRSSGTAAAKGERCRSFIELTPPAKREILWLSLGTQITYIGLQFISFLLLLTDLTGN  
PACGLKLSAFAAVSSVLSGLLGMVAHMMYSQVFQATVNLGPEDWRPHVWNYGWAFYMAWL  
SFTCCMASAVTTFNITYTRMVLEFKCKHSKSFKENPNCLPHHHQCFPRRLSSAAPTVGPLT  
SYHQYHNQPIHSVSEGVDFYSELRNKG FQRGASQELKEAVRSSVEEEQC

>sp|P49841|GSK3B\_HUMAN Glycogen synthase kinase-3 beta OS=Homo sapiens GN=GSK3B PE=1 SV=2

MSGRPRTTSFAESCKPVQQPSAFGSMKVS RDKDGSKVTTVVATPGQGPDRPQEVSYTDK  
VINGSGFVVYQAKLCDSGELVAIKKVLQDKRFKNRELQIMRKLHCNIVRLRYFFYSSG  
EKKDEVYLNVLVDYVPETVYRVARHYSRAKQTLPIYVKLYMYQLFRSLAYIHSFGICHR  
DIKPQNLLDPDTAVLKLCDFGSAKQLVRGEPNVSYICSRYRAPELIFGATDYTSSIDV  
WSAGCVLAELLGQPIFGD SGVDQLVEIIKVLGTPTREQUIREMNPNYTEFKFPQIKAHP  
WTKVFRPRTPEAIALCSRLL EYTPARLTPLECAHSFFDEL RDPNVKLPNGRDTPALF  
NFTTQELSSNPPLATILIPPHARIQAAASTPTNATAASDANTGDRGQTNNAASASASNST

>sp|Q14410|GLPK2\_HUMAN Glycerol kinase 2 OS=Homo sapiens GN=GK2 PE=2 SV=2



MAAPKTAAVGPLVGAVVQGTNSTRFLVFNSKTAELLSHHKVELTQEFPKEGWVEQDPKEI  
LQSVYECIARTCEKLDELNIDISNIKAVGVSNQRETTVIWDKLTGEPLYNVWLDLRTQ  
TTVEDLSKKIPGNSNFVSKTGLPLSTYFSAVKLRWMLDNVRNVQKAVEEGRALFGTIDS  
WLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKELCDFEIPMDLLPNVFSSEIY  
GLIKTGALEGVPISGCLGDQCAALVGQMCQEQGQAKNTYGTGCFLCNTGRKCVFSEHGL  
LTTVAYKLGREKPAYYALEGSSVAIAGAVIRWLRDNLGIIETSGDIERLAKEVGTSYGCYF  
VPAFSGLYAPYWEPSARGILCGLTQFTNKCHIAFAALEAVCFQTREILEAMNRDCGIPLR  
HLQVDGGMTNNKVLMLQADILHIPVIKPFMPETTALGAAMAAGAAEGVSVWSLEPQALS  
VLRMERFEPQIQATESEIRYATWKKAVMKSMGWVTSQSPEGGDPSIFSSLPLGFFIVSSM  
VMLIGARYISGVP

>sp|Q14409|GLPK3\_HUMAN Glycerol kinase 3 OS=Homo sapiens GN=GK3P PE=2 SV=2

MAASKAVLGPLVGAVDQGTSTRFLVFNSRTAELLSHHQVEIKQEFPREGWVEQDPKEI  
LHSVYECIEKTCEKLGLNIGISNIKAIGVSNQRETTVVWDKITGEPLYNVWLDLRTQ  
STVESLSKRIPGNNNFVSKTGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKRALFGTIDS  
WLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGIPMEILPHVRSSEIY  
GLMKAGALEGVPISGCLGDQSAALVGQMCQIGQAKNTYGTGCFLCNTGHKCVFSDHGL  
LTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIKTSEEIEKLAKEVGTSYGCYF  
VPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLS  
HLQVDGGMTSNKILMLQADILYIPVVKPLMPETTALGAAMAAGAAEGVDVWSLEPEDLS  
AVTMERFEPQINAESEIRYSTWKKAVMKSMGWVTTQSPEGGDPSVFCSLPLGFFIVSSM  
AMLIGARYISGIP

>sp|Q6IB77|GLYAT\_HUMAN Glycine N-acyltransferase OS=Homo sapiens GN=GLYAT PE=1 SV=3

MMLPLQGAQMLQMLEKSLRKSPLASLKVYGTVFHINHGNPFLKAVVDKWPDFNTVVVCP  
QEQDMTDDLHYTNTYQIYSKDPQNCQEFLGSPELINWKQHLQIQSSQPSLNEAIQNLA  
IKSFVKVQTRILYMAAETAKELTPFLKSKILSPNGGPKAINQEMFKLSSMDVTHAHL  
VNKFWHFGGNNERSQRFIERCIQTFTCCLLGPETGPVCWDLMDQTGEMRMAGTLPEYRLH  
GLVTYVIYISHAQLGKLGFVPVYSHVDYSNEAMQKMSYTLQHVPIPRSWNQWNCVPL

>sp|Q8WU03|GLYL2\_HUMAN Glycine N-acyltransferase-like protein 2 OS=Homo sapiens  
GN=GLYATL2 PE=1 SV=1

MLVLHNSQKLQILYKSLEKSIPESIKVYGAIFNIKDKNPFNMEVLVDAWPDYQIVITRPQ  
KQEMKDDQDHYTNTYHIFTKAPDKLEEVLSSYNVISWEQTLQIQGCQEGLDEAIRKVATS  
KSVQVDYMKTILFIPELPKKHKTSNDKMELFEVDDDNKEGNFSNMFLDASHAGLVNEHW  
AFGKNERSLKYIERCLQDFLGFGLGPEGQLVSWIVMEQSCELRMGYTPKYRHQGNMLQ  
IGYHLEKYSQKEIPFYFHVADNNEKSLQALNNLGFKICPCGWHQWKCTPKKYC

>sp|Q9UKD1|GMEB2\_HUMAN Glucocorticoid modulatory element-binding protein 2 OS=Homo  
sapiens GN=GMEB2 PE=1 SV=1

MATPDVSVHMEEVVVVTTPTDAVDGSGVEGVKTVLVTTNLAPHGGDLTEDNMETENAAAA  
AAAFTASSQLKEAVLVKMAEEGENLEAEIVYPITCGDSRANLIWRKFVCPGINVKCVQY  
DEHVISPKEFVHLACKSTLKDWKRAIRMNGIMLRKIMDSGELDFYQHDKVCSNTCRSTKI  
DLGARVSLSSPTSAYEIIPLTPAAADVNGSPATITITETCEDPGDWTAAGDDTFTFWRGL  
KDAGLLDEVIQEFHQELVETMRGLQQRVQDPPLQLRDAVLLNNIVQNFGLDLVKKVLAS  
HKCQMDRSREQYARDLAALQEQDEHRRRAKELKHKSQLSNVLMTLTPVSLPPPVKRPR  
LARATSGPAAMASQVLTQSAQLALGPGVPVQVLTQSVPLGKVVSTLPSTVLGKGSQAPPA  
SSPASPLLGGYTVLASSGSTYPSTVEIHPDASSLTVLSTAAVQDGSTVFKVVSPLQLLTL

PGLGPTLQNVAAQSPGSSTIVTPAGAAPGPEEHTATIEVAAMAEDHERK

>sp|Q9P2T1|GMPR2\_HUMAN GMP reductase 2 OS=Homo sapiens GN=GMPR2 PE=1 SV=1

MPHIDNDVKLDFKDVLLRPKRSTLKSRSVDLTRSFSFRNSKQTYSGVPPIAANMDTVGT  
FEMAKVLCKFSLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGTGSSDFEQLEQILEAI  
PQVKYICLDVANGYSEHFVEFVKDVRKFRPQHTIMAGNVVTGEMVEELILSGADI IKVGI  
GPGSVCTTRKKTGVGYPLSAVMECADAHGLKGHIISDGGCSCPGDVAKAFGAGADFVM  
LGGMLAGHSESGGELIERDGKKYKLFYGMSSSEMAMKKYAGGVAEYRASEGKTVEVPFKGD  
VEHTIRDILGGIRSTCTYVGA AKLKELSRRTTFIRVTQQVNPIFSEAC

>sp|P08754|GNAI3\_HUMAN Guanine nucleotide-binding protein G(k) subunit alpha OS=Homo sapiens GN=GNAI3 PE=1 SV=3

MGCTLSAEDKAAVERSKMIDRNLRDGEKAAKEVKLLLLGAGESGKSTIVKQMKIIHEDG  
YSEDECKQYKVVVYSNTIQSI IAIIRAMGR LKIDFGEAARADDARQLFVLGSAEEGVM  
PELAGVIKRLWRDGGVQACFSRSREYQLNDSASYLNDLDRISQSNYIPTQQDVLRTVK  
TTGIVETHFTFKDL YFKMFVGGQRSEK KWIHCFEGVTAIIFCVALSDYDLVLAEDEEM  
NRMHESMKLFD SICNNKWF TETSIILFLNKKDLFE EKIKRSPLTICYPEYTG SNTYEEAA  
AYIQCFEDLNRRKDTKEIYTHFTCATDTKNVQFVFDAVTDV I IKNNLKECGLY

>sp|095467|GNAS3\_HUMAN Neuroendocrine secretory protein 55 OS=Homo sapiens GN=GNAS PE=2 SV=1

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQQ  
RRSFLNAHHRSGAQVPESPESDHEHEEADLELSLPECLEYEEEFDYETESETESEIE  
SETDFETEPETAPTEPETEPEDDRGPVVPKHSTFGQSLTQRLHALKLRSPDASPSRAPP  
STQEPQSPREGEELKPEDKDPDPEESKEPKKEKQRRRCKPKKPTRRDASPESPSKKGP I  
PIRRH

>sp|Q53EU6|GPAT3\_HUMAN Glycerol-3-phosphate acyltransferase 3 OS=Homo sapiens GN=GPAT3 PE=1 SV=2

MEGAELAGKILSTWLTVLG FILLPSVFGVSLGISEIYMKILVKTLEWATIRIEKGPKE  
SILKNSASVGIIQRDESPMEKGLSGLRGRDFELSDVFYFSKKGLEAIVEDEVTQRFSS  
EELVSWNLLTRTNVNFQYISLRLTMVWVLGVIVRYCVLLPLRVTLAFIGISLLVIGTTLVGQ  
LPDSSLKNWSELVHLTCCRICVRALSGTIHYHNKQYRPQKGGICVANHTSPIDVLILT  
TDGCIYAMVGQVHGGLMGIIQRAMVKACPHVWFERSEMKDRHLVTKRLKEHIADKKLPILI  
FPEGTCINNTSVMFMFKGSFEIGGTIHPVAIKYNPQFGDAFWNSSKYNMVSYLLRMMTSW  
AIVCDVWYMPMTREEGEDAVQFANRVKSAIAIQGGLTELPWDGGLKRAVKDIFKEEQQ  
KNYSKMIVGNGSLS

>sp|Q9HC44|GPBL1\_HUMAN Vasculin-like protein 1 OS=Homo sapiens GN=GPBP1L1 PE=1 SV=1

MAQHDFVPAWLNFTSPQSAKSPTATFEKHGEHLPRGEGRFVSRRRHNSSDGFFNNGPLR  
TAGDSWHQPSLFRHDSVD SGVSKGAYAGITGNPSGWHSSSRGHDGMSQRSGGGTGNHRHW  
NGSFHSRKGC AFQEKPMEIREEKKEDKVEKLQFEEEDFPSLNPEAGKQHQP CRPIGTPS  
GVWENPPSAKQPSKMLVIKKVSKEDPAAAFSAAFTSPGSHHANGNKLSSVVP SVYKNLVP  
KPVPPSPKPNAWKANRMEHKSGSLSSSRESAFTSPI SVTKPVVLASGAALSSPKESPSST  
TPPIEISSRLTKLTRRTTDRKSEFLKTLKDDRNGDFSENRC DKLELEDNSTPEPKEN  
GEEGCHQNGLALPVVEEGEVL SHSLEAEHRLKAMGWQEYPENDENCLPLTEDELKEFHM  
KTEQLRRNGFGKNGFLQSRSSSLFSPWRSTCKAEFEDSDTETSSSETSDDDAWK

>sp|075487|GPC4\_HUMAN Glypican-4 OS=Homo sapiens GN=GPC4 PE=1 SV=4

MARFGLPALLCTLAVLSAALLAAELKSKSCSEVRRLYVSKGFNKNDAPLHEINGDHLKIC

PQGSTCCSQEMEEKYSLQSKDDFKSVVSEQCNHLQAVFASRYKKFDEFFKELLENAEKS  
LNDMFVKTYGHL YMQNSELFKDLFVELKRYVVGVNLEEMLNDFWARLLERMFLVNSQY  
HFTDEYLECVSKYTEQLKPGFDVPRKLKLVTRAFVAARTFAQGLAVAGDVVSKVSVVNP  
TAQCTHALLKMIYCSHCRGLVTVKPCYNYCSNIMRGCLANQGDLDFEWNFI DAMLMAE  
RLEGPFNIESVMDPIDVKISDAIMNQDNSVQVSQKVFQCGPPKPLPAGRISRSISESA  
FSARFRPHHPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDERMAAGNGNE  
DDCWNGKGSRYLFAVTGNLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKMKNAYN  
GNDVDFFDISDESSGSGSGCEYQQCPSEFDYNATDHAGKSANEKADSAGVRPGAQAYL  
LTVFCILFLVMQREWR

>sp|Q9Y625|GPC6\_HUMAN Glypican-6 OS=Homo sapiens GN=GPC6 PE=1 SV=1

MPSWIGAVILPLLGLLLSLPAGADV KARSCEVRQAYGAKGFS LADIPYQEIAGEHLRIC  
PQEYTCCTTEMEDKLSQQSKLEFENLVEETSHFVRTTFVSRHKKFDEFFRELLENAEKS  
LNDMFVRTYGM LYMQNSEVFQDLFTELKRYTGGNVNLEEMLNDFWARLLERMFLINPQY  
HFSEDYLCVSKYTDQLKPGFDVPRKLKIQVTRAFIAARTFVQGLTVGREVANRVSKVSP  
TPGCIRALMKMLYCPYCRGLPTVRPCNNYCLNVMKGCLANQADLDTEWNFI DAML LVAE  
RLEGPFNIESVMDPIDVKISEAIMNQENSMQVSAKVFQCGQPKPAPALRSARSAPENF  
NTRFRPYNPEERPTTAAGTSLDRLVTDIKEKLKLSKKVWSALPYTICKDESVTAGTSNEE  
ECWNGHSKARYLPEIMNDGLTNQINNPEVDVDITRPDTFIRQQIMALRVMTNKLKNAYNG  
NDVNFQDTSDESSGSGSGGCMDDVCPTFEFVTTEAPAVDPDRREVDSSAAQRGHSLLS  
WSLTCIVLALQRLCR

>sp|Q9NPB8|GPCP1\_HUMAN Glycerophosphocholine phosphodiesterase GPCPD1 OS=Homo sapiens  
GN=GPCPD1 PE=1 SV=2

MTPSQVAFEIRGTLLPGEVFAICGSCDALGNWNPQNAVALLPENDTGESMLWKATIVLSR  
GVSVQYRYFKGYFLEPKTIGGPCQVIVHKWETHLQPRSITPLESEIIIDDGQFGIHNGVE  
TLDSGWLTCQTEIRLRLHYSEKPPVSITKKKLKKSFRVKLTLEGLEEDDDDRVSPTVLH  
KMSNSLEISLISDNFEKCRHSQPECGYGLQPDWTEYSIQTMEDPNLELIFDFFEDLSE  
HVVQGDALPGHVGTACLLSSTIAESGKSAGILTLPIMSRNSRKTIGKVRVDYII IKPLPG  
YSCDMKSSFSKYWKPRIPLDVGHRGAGNSTTTAQLAKVQENTIASLRNAASHGAAFVEFD  
VHLSKDFVPVYHDLTCCLTMKKKFDADPVLEFIPVKELTFDQLQLLKLTHVTALKSKD  
RKESVVQEENSFSENQFPFSLKMVLESLPEDVGFNIEIKWICQQRDGMWDGNLSTYFDMN  
LFLDIIILKTVLENSGKRRI VFSSFDADICTMVRQKQNKYPILFLTQGKSEIYPELMDLRS  
RTTPIAMSFQFENLLGINVHTEDLLRNPSYIQEAKAKGLVIFCWGDDTNDPENRRKLKE  
LGVNGLIYDRIYDWMPEQPNIFQVEQLERLKQELPELKSCLCPTVSRFVPSSLCGESDIH  
VDANGIDNVENA

>sp|P47775|GPR12\_HUMAN G-protein coupled receptor 12 OS=Homo sapiens GN=GPR12 PE=1 SV=1

MNEDLKVNL SGLPRDYLDAAA AENISA AVSSRVP AVEPEPELVVNPWDIVLCTSGTLISC  
ENAIVVLIIFHNPSLRAPMFL LIGSLALADLLAGIGLITNFVFAYLLQSEATKLVTIGLI  
VASFSASVCSLLAITVD RYLSLYALTYHSERTVTFTYVMLVMLWGTSICLGLLPVMGWN  
CLRDESTCSVVRPLTKNNA ILSVSFLFMFALMLQLYIQICKIVMRHAHQIALQHHFLAT  
SHYVTTRKGVSTLAIILGTFAACWMPFTLYSLIADYTPSYIYTYATLLPATYNSIINPVI  
YAFRNQEIQKALCLICCGCIPSSLAQRARSPSDV

>sp|Q15760|GPR19\_HUMAN Probable G-protein coupled receptor 19 OS=Homo sapiens GN=GPR19  
PE=2 SV=2

MVFAHRMDNSKPHLI IPTLLVPLQNRSCTETATPLSQYLMELSEEHSWMSNQTDLHYVL

KPGEVATASIFFGILWLFSIFGNSLVCLVIHRSRRTQSTTNYFVVSACADLLISVASTP  
FVLLQFTTGRWTLGSATCKVVRYFQYLTPGVQIYVLLSICIDRFYTIYVPLSFKVSREKA  
KKMIAASWVFDAGFVTPVLFYGSNWDSHCNYFLPSSWEGTAYTVIHFLVGFVIPSVLII  
LFYQKVIKVIWRIGTDGRTVRRMTNIVPRTKVKTIKMFLILNLLFLLSWLPFHVAQLWHP  
HEQDYKKSSLVFTAITWISFSSSASKPTLYSIYNANFRRGMKETFCMSSMKCYRSNAYTI  
TTSSRMAKKNYVGISEIPSMAKTITKDSIYDSFDREAKEKKLAWPINSNPPNTFV

>sp|Q99679|GPR21\_HUMAN Probable G-protein coupled receptor 21 OS=Homo sapiens GN=GPR21  
PE=2 SV=1

MNSTLDGNQSSHPFCLLAFGYLETVNFCLEVLIIIVFLTVLIISGNIIVIFVFHCAPLLN  
HHTTSYFIQTMAYADLFVGVSCVPSLSLLHHPLPVEESLTCQIFGFVVSVLKSVSMASL  
ACISIDRYIAITKPLTYNTLVPWRLRLCIFLIWLYSTLVFLPSFFHWGKPGYHGDVFQW  
CAESWHTDSYFTLFIVMMLYAPAAALIVCFTYFNIFRICQHQTKDISERQARFSSQSGETG  
EVQACPDKRYAMVLFRTSVFYILWLPYIIYFLESSTGHSNRFASFLLTWLAISNSFCN  
CVIYSLSNSVFQRLKRLSGAMCTSCASQTTANDPYTVRSKGPLNGCHI

>sp|Q9UPC5|GPR34\_HUMAN Probable G-protein coupled receptor 34 OS=Homo sapiens GN=GPR34  
PE=2 SV=2

MRSHTITMTTTSVSSWPYSSHRMRFITNHSDQPPQNFSA TPNVTTCPMDEKLLSTVLTS  
YSVIFIVGLVGNIIALYVFLGIHRKRNSIQIYLLNVAIADLLIFCLPFRIMYHINQNKW  
TLGVILCKVVGTLFYMNMYISIIILLGFISLDRIKINRSIQQRKAITTKQSIYVCCIVWM  
LALGGFLTMIILTLKKGHNSTMCFYRDKHNAKGAEIFNFILVVMFWLIFLLIILSYIK  
IGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFVPYHAFRFIYSSQLNVSSCY  
WKEIVHKTNEIMLVSSFNCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFK  
PGYSLHDTSAVAVKIQSSSKST

>sp|O15354|GPR37\_HUMAN Prosaposin receptor GPR37 OS=Homo sapiens GN=GPR37 PE=1 SV=2

MRAPGALLARMSRLLLLLLVKSASSALGVAPASRNETCLGESCAPTVIQRGRDAWGP  
NSARDVLRARAPREEQGAFLAGPSWDLPAAPGRDPAAGRGAEASAAGPPGPTRPPGPW  
RWKGARGQEPSETLGRGNPTALQLFLQISEEEEKGPRGAGISGRSQEQSVKTVPGASDLF  
YWPRRAGKLQGSHHKPLSKTANGLAGHEGWTIALPGRALAQNGSLGEGIHEPGGPRRGNS  
TNRRVRLKNPFYPLTQESYGAYAVMCLSVIFGTGIIGNLAVMCIVCHNYMRSISNSLL  
ANLAFWDFLIIFFCLPLVIFHELTKKWLEDFSKIVPYIEVASLGVTTFTLCALCIDRF  
RAATNVQMYEMIENCSSTAKLAVIWVGALLLALPEVVLRLQSKEDLGFSGRAPAERCI  
IKISPDLPDTIYVLALTYDSARLWWYFGCYFCLPTLFTITCSLVTARKIRKAEKACTRGN  
KRQIQLESQMNCVTVALTILYGFCIIPENICNIVTAYMATGVSQQTMDLLNIISQFLLFF  
KSCVTPVLLFCLCKPFSRAFMCCCCCEECIQKSSTVTSDDNDNEYTTELELSPFSTIR  
REMSTFASVGTHC

>sp|Q9Y2T5|GPR52\_HUMAN Probable G-protein coupled receptor 52 OS=Homo sapiens GN=GPR52  
PE=2 SV=2

MNESRWTEWRILNMSSGIVNVSERHSCPLGFGHYSVVDVCIFETVVIVLLTFLIIAGNLT  
VIFVFHCAPLLHHYTSYFIQTMAYADLFVGVSCLVPTLSLLHYSTGVHESLTCQVFGYI  
ISVLKSVSMACLACISVDRYLAITKPLSYNQLVTPCRLRICIILIWIYSCLIFLPSFFGW  
GKPGYHGDIFEWCATSWLTSAYFTGFIVCLLYAPAAFVVCFTYFHIFKICRQHTKEINDR  
RARFPSHEVDSSRETGHSPDRRYAMVLFRTSVFYMLWLPYIIYFLESSRVLDPNPTLSF  
LTTWLAISSNSFCNCVIYSLSNSVFRLLGLRRLSETMCTSCMCVKDQEAQEPKPRKRANSCS

I

>sp|Q6UWM5|GPRL1\_HUMAN GLIPR1-like protein 1 OS=Homo sapiens GN=GLIPR1L1 PE=1 SV=2  
MALKNKFSCWLWILGLCLVATTSSKIPSITDPHFIDNCIEAHNEWRGKVNPPAADMKYMIW  
DKGLAKMAKAWANQCKFEHNDCLDKSYKCYAAFEYVGENIWLGGIKSFTPRHAITAWYNE  
TQFYDFDSLSCSRVCGHYTQLVWANSFYVGCAMCPNLGGASTAIFVCNYGPAGNFANM  
PPYVRGESCSLCSKEEKCCKVKNLCRTPQLIIPNQNPFLKPTGRAPQQTAFNPFSLGFLLLR  
IF

>sp|Q9NZM5|GSCR2\_HUMAN Glioma tumor suppressor candidate region gene 2 protein OS=Homo sapiens GN=GLTSCR2 PE=1 SV=2  
MAAGSGVGKRSKSDADSGFLGLRPTSDPALRRRRRGPRNKKRGWRRLAQEPLGLEV  
DQFLEDVRLQERTSGGLLSEAPNEKLFFVDTGSKEKGLTKKRTKVQKSLLLKKPLRVDL  
ILENTSKVPAPKDVLAHQVPNAKKLRKEQLWEKLAKQGELPREVRRQAARLLNPSATRA  
KPGPQDTPVERPFYDLWASDNPLDRPLVGQDEFFLEQTKKKGVKRPARLHTKPSQAPAVEV  
APAGASYNPSFEDHQTLSSAAHEVELQRQKEAEKLERQLALPATEQAATQESTFQELCEG  
LLEESDGEPEGPGGEGPEAGDAEVCPTPARLATTEKKTEQQRREKAVHRLRVQQAALRA  
ARLRHQELFRLRGIKAQVALRLAELARRQRRRQARREAEADKPRRLGRLKYQAPDIDVQL  
SSELTDSLRTLKPEGNILDRFKSFQRRNMIERERAKFKRKYKVKLVEKRAFREIQL

>sp|P57764|GSDMD\_HUMAN Gasdermin-D OS=Homo sapiens GN=GSDMD PE=1 SV=1  
MGSAFERVVRVQELDHGGEFIPVTSLSQSTGFQPYCLVVRKPSSSWFWKPRYKCVNLS  
IKDILEPDAAEPDVQGRSFHFYDAMDGQIQGSVELAAPGQAKIAGGAASDSSSTSMNV  
YLSVDPNTWQTLHERHLRQPEHKVLQQLRSRGDNVYVVTEVLQTQKEVEVTRTHKREG  
SGRFSLPGATCLQGEQGHLSSQKKTVTIPSGSTLAFRVAQLVIDSDLVLLFPDKKQRTF  
QPPATGHKRSTSEGAWPQLPSGLSMMRCLHNFLTGVPAEGAFTEDFQGLRAEVETISKE  
LELLDRELQQLLEGLEGLVRDQLALRALEEALQGSGLGPVEPLDGPAGAVLECLVLSS  
GMLVPELAIPVVYLLGALTMLSETQHKLAEALQSQTLLGPLELVGSLLEQSAPWQERST  
MSLPPGLLGNSWEGAPAWVLLDECGLGELGEDTPHVCWEPQAQGRMCALYASLALLSGLS  
QEPH

>sp|P48507|GSHO\_HUMAN Glutamate--cysteine ligase regulatory subunit OS=Homo sapiens GN=GCLM PE=1 SV=1  
MGTDRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSSQINP  
DLVREFPDVLECTVSHAVEKINPDEREEMKVSAKLFIVESNSSSSTRSAVDMACSVLGVA  
QLDSVIIASPIEDGVNLSLEHLQPYWEELENLVQSKKIVAIGTSDLDKTQLEQLYQWAQ  
VKPNSNQVNLASCCVMPDLTAFKQFDIQLLTHNDPKELLSEASFQEALQESIPDIQAH  
EWWPLWLLRYSVIVKSRGIKSKGYILQAKRRGS

>sp|Q16772|GSTA3\_HUMAN Glutathione S-transferase A3 OS=Homo sapiens GN=GSTA3 PE=1 SV=3  
MAGKPKLHYFNGRGRMEPIRWLLAAAGVEFEKFIGSAEDLGKLRNDGSLMFQQVPMVEI  
DGMKLVQTRAILNYIASKYNLGKDIKERALIDMYTEGMADLNEMILLPLPCRPEEKDAK  
IALIKEKTKSRYFPAFEKVLQSHGQDYLVGNKLSRADISVELLYYVEELDSSLISNFPL  
LKALKTRISNLPVKKFLQPGSPRKPPADAKALEEARKIFRF

>sp|Q9H4Y5|GSTO2\_HUMAN Glutathione S-transferase omega-2 OS=Homo sapiens GN=GSTO2 PE=1 SV=1  
MSGDATRTLKGGSQPPGPVPEGLIRIYSMRFCPYSHRTRLVLKAKDIRHEVVNINLRNKP  
EWWYTKHPFGHIPVLETSQCQLIYESVIACEYLDAYPGRKLPYDPYERARQKMLLELF  
CKVPHLTKECLVALRCGRECTNLKAALRQEFNLEEILEYQNTTFFGGTCISMIDYLLWP  
WFERLDVYGILDCVSHTPALRLWISAMKWDPTVCALLMDKSIFQGFLNLYFQNNPNAFDF

GLC

>sp|P48167|GLRB\_HUMAN Glycine receptor subunit beta OS=Homo sapiens GN=GLRB PE=1 SV=1  
MKFLLTFAFLILISLWVEEAYSKEKSSKKGKGGKQYLCPSSQSAEDLARVPANSTSNIL  
NRLLSYDPRIRPNFKGIPVDVVNIFINSFGSIQETTM DYRVNIFLRQKWNDRPKLPS  
DFRGS DALTVDP TMYKCLWKPD LFFANEKSANFHDVTQENILLFIFRDGDVLVSMRLSIT  
LSCPLDLTLFPMDTQRCKMQLESFGYTTDDLRFIWQSGDPVQLEKIALPQFDIKKEDIEY  
GNCTKYYKGTGYTCEVIFTLRRQVGFYMMGVYAPTLLIVVLSWLSFWINPDASAARVP  
LGIFSVLSLASECTTLAAELPKVS YVKALDVWLIACLLFGFASLVEYAVVQVMLNNPKRV  
EAEKARIAKAEQADGKGGNVAKKNTVNGTGPVHISTLQVGETRCKKVCTSKSDLRSNDF  
SIVGSLPRDFELSNDYCYGKPIEVNNGLGKSQA KNNKKPPPAKPIPTAAKRIDL YARAL  
FPFCFLFFNVIYWSIYL

>sp|Q9NS18|GLRX2\_HUMAN Glutaredoxin-2, mitochondrial OS=Homo sapiens GN=GLRX2 PE=1 SV=1  
MIWRR AALAGTRLVWSRSGSAGWLDRAAGAAGAAAAAASGMESNTSSSLENLATAPVNQI  
QETISDNCVVIFSKTSCSYCTMAKKLFHDMNVNYKVVELDLLEYGNQFQDALYKMTGERT  
VPRI FVNGTFIGGATDTHRLHKEGKLLPLVHQCYLKSKRKEFQ

>sp|Q86SR1|GLT10\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 10 OS=Homo sapiens  
GN=GALNT10 PE=1 SV=2  
MRRKEKRLLQAV ALVLAALVLLPNVGLWALYRERQPDGTPGGSGAAVAPAAGQGSHSRQK  
KTFFLG DGQK LKDWHDKEAIRRDAQRVGNGEQGRPYPM TDAERVDQAYRENGFN IYVSDK  
ISLNRSLPDIRHPNCNSKRYLETLPNTSIIIPFHNEGWSLLRTVH SVLNRSPPELVAEI  
VLVDDFSDREHLKKPLEDYMALFPSVRILRTKKREGLIRTRMLGASVATGDVITFLDSHC  
EANVNWL PPLLDRIARNRKTIVCPMIDVIDHDDFRYETQAGDAMRGAFDWEMYKRIPI  
PELQKADPSDPFESPMAGGLFAVDRKWFELGGYDPGLEIWGGEQYEISFKVWMCGRM  
EDIPCSRVGHIYRKYVPYKVPAGVSLARNLKRVAE VWMDEYAEYIYQRRPEYRHLSAGDV  
AVQKKLRSSLNCKSFKWFMTKIAWDLPKFYPPVEPPAAAWGEIRNVGTGLCADTKHGALG  
SPLRLEGCVRGRGEAAWNNMQVFTFTWREDIRPGDPQHTKKFCFDAISHTSPVTLYDCHS  
MKG NQLWKYRKDKTLYHPVSGSCMDCSESDHRIFMNTCNPSSLTQQWLF EHTNSTVLEKF  
NRN

>sp|Q8N428|GLT16\_HUMAN Polypeptide N-acetylgalactosaminyltransferase 16 OS=Homo sapiens  
GN=GALNT16 PE=1 SV=2  
MRKIRANAIAILTVAWILGTFYYLWQDNRAHAASSGGRGAQRAGRRSEQLREDRTIPLIV  
TGTPSKGFDEKAYLSAKQLKAGEDPYRQHAFNQLES DKLSPDRPIRDTRHYS CPSSVSYS  
DLPATSVIITFHNEARSTLLRTVKSVLNRT PANLIQEII LVDDFSSDPEDCLLLTRIPKV  
KCLRNDREGLIRSRVRGADVAAATVLTFLDSHCEVNT EWLPPMLQRVKEDHTRVVSPII  
DVISLDNFAYLAASADLRGGFDWSLHFKWEQIPLEQKMTRTDPTRP IRTPVIAGGIFVID  
KSWFNHLGKYDAQMDIWGGENFELSFRVWMC GSLEIVPCSRVGHVFRKRHPYNFPEGNA  
LTYIRNTKRTAEVWMDEYKQY YYEARPSAIGKAFGSVATRIEQRKKMNCKSFRWYLENVY  
PELTPVKEALPGI IKQGVNCL ESQGQNTAGDFLLGMGICRGSAKNPQPAQAWLFS DHLI  
QQQ GKCLAATSTLMSSPGSPVILQMCNPREGKQKWRKGSFIQHSVSGLCLET KPAQLVT  
SKCQADAQAQQWQLLPHT

>sp|Q7Z4T8|GLTL5\_HUMAN Inactive polypeptide N-acetylgalactosaminyltransferase-like  
protein 5 OS=Homo sapiens GN=GALNTL5 PE=2 SV=3  
MRNAIIQGLFYGSLTFGIWTALLFIYLHHNHVSSWQKKSQEPLSAWSPGKKVHQQIIYGS  
EQIPKPHVIVKRTDEDKAKSMLGTD FNHTNP ELHKELLKYGFNVIISRSLGIEREVPDTR

SKMCLQKHYPARLPTASIVICFYNEECNALFQTMSSVTNLTPHYFLEEIILVDDMSKVDD  
LKEKLDYHLETFRGKVKIIRNKKREGLIRARLIGASHASGDVLVFLDSHCEVNRVWLEPL  
LHAIKDPKMWVCLIDVIDDRLEYKPSPLVRGTFDWNLQFKWDNVFSYEMDGPSTK  
PIRSPAMSGGIFAIRRHVFNEIGQYDKDMDFWGRENLELSLRIWMCQGQLFIIPCSRVGH  
ISKKTGKPTIIISAMTHNYLRLVHVWLDEYKEQFFLRKPLKYVTYGNIRERVELRKRL  
GCKSFQWYLDNVFPELEASVNSL

>sp|Q9NZD2|GLTP\_HUMAN Glycolipid transfer protein OS=Homo sapiens GN=GLTP PE=1 SV=3  
MALLAEHLKPLPADKQIETGPFLAVSHLPFFDCLGSPVFTPIKADISGNITKIKAVY  
DTNPAKFRTLQNIIEVEKEMYGAEPKVGATLALMWLKRGLRFIQVFLQSIDGERDENH  
PNLIRVNATKAYEMALKKYHGWIQKIFQAALYAAPYKSDFLKALSKGQNVTEEECLEKI  
RLFLVNYTATIDVIYEMYTQMNAELNYKV

>sp|O60547|GMDS\_HUMAN GDP-mannose 4,6 dehydratase OS=Homo sapiens GN=GMDS PE=1 SV=1  
MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLEKGYEVHGVRRSSSF  
NTGRIEHLKPNQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHVKISFDL  
AEYTADV DVGVTLRLLDAVKTCGLINSVKFYQASTSELYGKVQEIPQKETTPFYPRSPYG  
AAKLYAYWIVVNFREAYNLFVNGILFNHESPRRGANFVTRKISRVAKIYLGQLECFSL  
GNLDAKRDWGHAKDYVEAMWMLQNDPEDFVIATGEVHSVREFVEKSFLHIGKTIVWEG  
KNENEVGRCKETGKVHVTVDLKYRPTVDLQGDCTKAKQKLNWKPRVAFDELVREMVH  
ADVLMRTNPNA

>sp|P60983|GMFB\_HUMAN Glia maturation factor beta OS=Homo sapiens GN=GMFB PE=1 SV=2  
MSESLVVCDAEDLVEKLRKFRFRKETNNAIIMKIDKDKRLVVLDEELEGISPDELKDE  
LPERQPRFIVYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVTAEITKV  
FEIRNTEDLTEEWLREKLGFFH

>sp|Q9P107|GMIP\_HUMAN GEM-interacting protein OS=Homo sapiens GN=GMIP PE=1 SV=2  
MDAAEPGLPPGPEGRKRYSDIFRSLDNLEISLGNVTLEMLAGDPLLEDPEPKTPTATV  
TNEASCWSGSPGEPVPLTGEELDLRLIRTKGGVDAALEYAKTWSRYAKELLAWTEKRAS  
YELEFAKSTMKIAEAGKVSIIQQQSHMPLQYIYTLFLEHDSLGLTAMETVAQQKRDYYQP  
LAAKRTETIEKWRKEFKEQWMKEQKRMNEAVQALRRAQLQYVQRSEDLRARSQGSPEDESAP  
QASPGPSKQQERRRRSREEAQAQAEALYQACVREANARQQDLEIAKQRIVSHVRKLV  
FQGDEVLRRTLSLFLRGAQAERGPRFAALAECCAPFEPGQRYQEFVRALRPEAPPPP  
PPAFSFFQEFPLSNSSPLDIRKKLSGPLPPRLDENSEAEPGPWEDPGTWWRWQGTGPTPG  
SDVDSVGGSESRLDSPTSSPGAGTRQLVKASSTGTESDDFEERDPDLGDLENGLGS  
PFGKWLSSAAQTHQLRRLRGPACRECEAFMVSGTECEECFLTCHKRCLETLLILCGHR  
RLPARTPLFGVDFLQLPRDFPEEVPFVVTCKTAEIEHRALDVQGIYRVSGSRVRVERLCQ  
AFENGRAVLSGNSPHDVSSVLKRFLQELTEPVIPFHLYDAFISLAKTLHADPGDDPGT  
PSPSPEVIRSLKTLVLQPDNNTLRHLVAHLFRVAARFMENKMSANNLGIVFGPTLLR  
PPDGPRASAIPVTCLLDSGHQAQLVEFLIVHYEQIFGMDELQATEPPPPQDSSPAPGPL  
TTSSQPPPHLDPSQPPVLASDPGPDQHHSTLEQHPTATPTEIPTPQSDQREDVAEDT  
KDGGGEVSSQGPEDSLLGTQSRGHFSRQPVKYPRGGVRPVTHQLSSLALVASKLCEETPI  
TSVPRGSLRGRGSPAAASPEGSPLRRTPLPKHFEITQETARLLSKLDSEAVPRATCCPD  
VQPEEAEDHL

>sp|Q8TDQ7|GNPI2\_HUMAN Glucosamine-6-phosphate isomerase 2 OS=Homo sapiens GN=GNPDA2 PE=1  
SV=1  
MRLVILDNYDLASEWAAKYICNRIIQFKPGQDRYFTLGLPTGSTPLGCKYKKLIEYHKNGH

LSFKYVKTFNMDEYVGLPRNHPESYHSYMWNFFKHIDIDPNNAHILDGNAADLQAECD  
FENKIKEAGGIDLFVGGIGPDGHIAFNEPGSSLVSRTLKTAMDTILANAKYFDGDL  
VPTMALTVGVGTMDAREVMILITGAHKAFALYKAIEEGVNHMWTSAFQQHPRTIFVCD  
EDATLELRVKTVKYFKGLMHVHNKLVDPLFSMKDGN

>sp|Q96P88|GNRR2\_HUMAN Putative gonadotropin-releasing hormone II receptor OS=Homo sapiens GN=GNRRH2 PE=5 SV=4

MSAGNGTPWDATWNITVQWLAVDIACRTLMFLKLMATYSAAFLPVVIGLDRQAAVLNPLG  
SRSGVRKLLGAAGLSFLAFQFLFHTVHCAGVPVFTQCVTKGSFKAQWQETTYNLFT  
FCCLFLLPLTAMAICYSRIVLSVSRPQTRKGSHAPAGEFALPRSFDCNPRVRLRALRLAL  
LILLTFILCWTPYYLLGMWYWFSTMLTEVPPSLSHILFLLGLLNAPLDPLLYGAFTLGC  
RRGHQELSIDSKEGSGRMLQEEIHAFRQLEVQKTVTSSRRAGETKGISITSI

>sp|A6NDN3|GOG6B\_HUMAN Golgin subfamily A member 6B OS=Homo sapiens GN=GOLGA6B PE=3 SV=3

MWPQPYLPPHPMMLLEESRQNKLAACKKLKEYQQRKSPGIPAGAKTKKKKTDSSETTTS  
GGGHSPGDSQYQELAVALESSSVTISQLNENIESLKQKKQVEHQLEEAKKTNNEIHKAQ  
MERLETINILTLEKADLKTTLYHTKRAARHFEEESKDLAGRLQYSLQRIQELERALCAVS  
TQQQEEDRSSSCREAVLHRRLLQQTIKERALLNAHVTQVTESLKQVQLERDEYAKHIKGER  
ARWQERMWKMSVEARTLKEEKKRDIHRIQELERSLSELKNQMAKPPSLAPPAVTSVVEQL  
QDEAKHLRQEVEGLEGLQSQVENNQALSLSKEQKQRLQEQEEMLREQEVQRVREQERL  
CEQNERLREQQKTLQEGERLRKQEQLRKQEERLRKEEERLQKQEKRLWDQEERLWKKE  
ERLQKQEERLALSQNHKLDKQLAEPQCSFEDLNNEKKSALQLEQQVKELQEKLDEEHLEA  
ASQQNQQLLETQLSLVALPGEGDGGQHLDSSEEEAPRPTPNIPEDLESREATSSFMDLPKE  
KADGTEQVERRELGFVQPSGVTGDMRESFTVYESQGAVPNTRHQEMEDVIRLAQKEEEMK  
VKLLELQELVLPLVGNHEGHGKFLIAAQNPADEPTPGAPAPQELGAAGEQDDFYEVSLDN  
NVEPAPGAAREGSPHDNPTVQQIVQLSPVMQDT

>sp|POCG33|GOG6D\_HUMAN Golgin subfamily A member 6D OS=Homo sapiens GN=GOLGA6D PE=3 SV=1

MWPQPYLPPHPMMLLEESRQNKLAACKKLKEYQQRKSPGIPAGAKTKKKKTDSSETTTS  
GGGHSPGDSQYQELAVALESSSVTINQLNENIESLKQKKQVEHQLEEAKKTNNEIHKAQ  
MEQLETINILTLEKADLKTTLYHTKRAARHFEEESKDLAGRLQYSLQHIQELERALCAVS  
TQQQEEDRSSSCREAVLQRRLLQQTIKERALLNAHVTQVTESLKQVQLERDEYAKHIKGER  
ARWQERMWKMSVEARTLKEEKKRDIHRIQELERSLSELKNQMAEPPSLAPPAVTSVVEQL  
QDEAKHLRQEVEGLEGLQSQVENNQALSLSKEQKQRLQEQEEMLREQEAQRVREQERL  
CEQNERLREQQKTLQEGERLRKQEQLRKQEERLRKEEERLQKQEKRLWDQEERLWKKE  
ERLQKQEERLALSQNHKLDKQLAEPQCSFEDLNNEKKSALQLEQQVKELQEKLDEEHLEA  
ASQRNQQLLETQLSLVALPGEGDGGQHLDSSEEEAPRPTPNIPEDLESREATSSFMDLPKE  
KADGTEQVERRELGFVQPSGVTGDMRESFTVYESQGAVPNTRHQEMEDVIRLAQKEEEMK  
VKLLELQELVLPLVGNHEGHGKFLIAAQNPADEPTPGAPAPQELGAAGEQDVFYEVSLDN  
NVEPAPGVAREGSPHNNPTVQQIVQLSPVMQDT

>sp|H3BSY2|GOG8M\_HUMAN Golgin subfamily A member 8M OS=Homo sapiens GN=GOLGA8M PE=3 SV=1

MAEETQHNLAAACKKLKEYWQKNSPRVPAGANRNRKTNGSIPQTATSGGCQPPGDSATG  
FHREGPTSSATLKDLESPCQERAVVLDSRSVEISQLKNTIKSLKQKKQVEHQLEEEKKA  
NNKKQKAKRVLEVQLQTLNIQKEELNTDLYHMKRSLRYFEESKDLAVRLQHSLQRKGEL  
ESVLSVDMATQKKKANQLSSPSKAGTEWKLEQSMREEALLKVQLTLKESFQQVQLERDE  
YSEHLKGERARWQQRMRKMSQEICTLKKEKQDMRRVEKLESLSKLKNQMAEPLPPEPP  
AVPSEVELQHLRKELERVAGELQAQVKNNQRISLLNQRQEERIREQEERLRKQEERIQEQ



HKSLQQLAKPQSVFEEPNNENKSTLQLEQQVKELQEKLGEEHLEAASQQNQQLTAQLSLM  
ALPGEHGGEHL DSEGE EAPQMPSPVEDPESREAMSSFMDHLEEKADLSELVKKQELRF  
IQYWQERCHQKIHHLLSEPGGRAKDAALGGGHHQAGAQQGDEGEAAGAAADGIAAYSNN  
NGHRKFLAAAHNSADEPGPGAPAPQELGAADKHGDLCEVSLTSSAQGEAREDPLLDKPTA  
QPIVQDHQEHPLGSNCCVPFFCWAWLPRRRR

>sp|Q96P66|GP101\_HUMAN Probable G-protein coupled receptor 101 OS=Homo sapiens GN=GPR101  
PE=1 SV=1

MTSTCTNSTRESNSSHTCMPLSKMPI SLAHGIIRSTVLVIFLAASFVGNIVLALVLQRKP  
QLLQVTNRFI FNLLVTDLLQISLVAPWV VATSVPLFWPLNSHFCTALVSLTHLFAFASVN  
TIVVVSVDRLSIIHPLSYPSKMTQRRGYLLLYGTWIVAILQSTPPLYGWGQA AFDERNA  
LCSMIWGASPSYITLSVVSFIVIP LIVMIACYSVVFCAARRQHALLYNVKRHSLEVRVKD  
CVENEDEEGA EKKEEFQDESEFR RQHEGEVKAKEGRMEAKD GSLKAKEGSTGTSESSVEA  
RGSEEVRESSTVASDGSMEGKEGSTKVEENSMKADKGRTEVNQCSIDLGEDDMEFGEDDI  
NFSEDDVEAVNIPESLPPSRRNNSNPPLPRCYQCKAAKVIFIIIFS YVLSLGPYCF LAV  
LAVVVDVETQVPQWVITII IWLFFLQCCIH PYVYG YMHKTIKKEIQDMLKKFFCKEKPPK  
EDSHPDLPGETEGGTEGKIVPSYDSATFP

>sp|Q8TDV5|GP119\_HUMAN Glucose-dependent insulinotropic receptor OS=Homo sapiens  
GN=GPR119 PE=1 SV=1

MESSFSFGVILAVLASLIIATNTLVAVAVLLLIHKNDGVSLCFTLNLAVADTLIGVAISG  
LLTDQLSSPSRPTQKTLCSLRMAFVTSSAAASVLTVM LITFD RYLAIKQPFRYLKIMSGF  
VAGACIAGLWLVSYLIGFLPLGIPMFQQTAYKGQCSFFAVFHPHFVLT LSCVGFPPAMLL  
FVFFYCDMLKIASMHSQQIRKMEHAGAMAGGYRSPRTPSDFKALRTVSVLIGSFALSWTP  
FLITGIVQVACQECHLYLV LERYLWLLGVGNSLLNPLIYAYWQKEVRLQLYHMALGVKKV  
LTSFLLFLSARNCGPERPRESSCHIVTISSEFDG

>sp|Q9UNW8|GP132\_HUMAN Probable G-protein coupled receptor 132 OS=Homo sapiens GN=GPR132  
PE=1 SV=1

MCPMLLKNGYNGNATPVTTTAPWASLGLSAKTCNNVSFEESRIVLVVVS AVCTLGV PAN  
CLTAWLALLQVLQGNVLAVYLLCLALCELLYTGTLP LWWIYIRNQHRWTLG LLACKVTAY  
IFFCNIIYVSILFCCISCDFVAVVYALESRGRRRRRTAILISACIFILVGIVHYPVFQT  
EDKETCFDMLQMSRIAGYYYARFTVGFAIPLSIIAFTNHRIFRSIKQSMGLSAAQKAKV  
KHSIAIVVVIFLVCFAPYHLVLLVKA AAFSYYRGDRNAMCGLEERLYTASV VFLCLSTVN  
GVADPIIYVLATDHSRQEVSR IHKGWKEWSMKTDVTRLTHSRDTEELQSPVALADHYTFS  
RPVHPPGSPCPAKRLIEESC

>sp|Q8IZ08|GP135\_HUMAN Probable G-protein coupled receptor 135 OS=Homo sapiens GN=GPR135  
PE=2 SV=2

MEEPQPPRPASMLLGSQHSGAPSAAGPPGGTSSAATAAVLSFSTVATAALGNLSDASG  
GGTAAAPGGGGLGGSGAAREAGAAVRRPLGPEAAPLLSHGA AVAAQALVLLIFLLSSLG  
NCAVMGVIVKHRQLRTVTNAFILSLSLSDLLTALLCLPAAFLDLFTPPGGSAPAAAAGPW  
RGFCAASRFFSSCFGIVSTLSVALISLDRYCAIVRPPREKIGRRRALQLLAGAWLTALGF  
SLPWELLGAPRELA AQS F HGCLYRTSPDPAQLGA AFSVGLVVACYLLPFLLMCFCHYHI  
CKTVRLSDVRVRPVNTYARVLRFFSEVRTATTVLIMIVFVICWGPYCFLVLLAAARQAQ  
TMQAPSLLSVVAVL TWANGAINPVIYAIRNPNISMLLGRNREEGYRTRNVDAFLPSQGP  
GLQARSRSRLRNRYANRLGACNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTA  
VTKQPKSEAGDTSL

>sp|Q6PRD1|GP179\_HUMAN Probable G-protein coupled receptor 179 OS=Homo sapiens GN=GPR179  
PE=1 SV=2

MGTRGAVMPPPMWGLLGCCFVCAWALGGPRPIRSLPPLSSQVKPGSVPMQVPLEGAEAAAL  
AYLYSGDAQQLSQVNCSEYERAGAGAMPGLPSSLQGAAGTLAQAAFLNMLLQANDIRE  
SSVEEDVEWYQALVRSVAEGDPRVYRALLTFNPPPGASHLQLALQATRTGEETILQDLSG  
NWVQEEENPPGDLDTPALKKRVLTNDLGSLGSPKWPQADGYVGDQQVRLSPPFLECQEGR  
LRPGWLITLSATFYGLKPDLSPEVRGQVQMDVDLQSVQDINQCASGPGWYSNTHLCDLNST  
QCVPLESQGFVLGRYLCRCRPGFYGASPSGGLEESDFQTTGQFGFPEGRSGRLLQCLPCP  
EGCTSCMDATPCLVEEAALVRAAVLACQACMLAIFLSMLVSYRCRRNKRIWASGVVLE  
TVLFGFLLLYFPVFILYFKPSVFRICIALRWVRLGFAIVYGTIILKLYRVLQLFLSRTAQ  
RSALLSSGRLLRRLGLLLLPLVGLFVWTVGALERGIQHAPLVIRGHTPSGRHFYLCHHD  
RWDYIMVVAELLLLWGSFLCYATRAVLAFHEPRYMGIALHNELLSAAFHTARFVLP  
SLHPDWTLFFFHSTVTTTLALIFIPKFWKLGAPPREEMVDEVCEDELDLQHSGSYL  
GSSIASAWSEHSLDPGDIRDELKKLYAQLEVHKTEMAANNPHLPKKGSSCQGLGRSFM  
RYLAEPFELARQHSRDSGSPGHGSLPGSSRRRLSSSLQEPEGTPALHKSSTYDQRRE  
QDPPLDSLRLRRKLAKKASRTESRESVEGPPALGFRSASAHNLTVGERLPRARPASLQKS  
LSVASSREKALLMASQAYLEETYRQAKEREERKKAKAAMASLVRRPSARRLERPRGAPLS  
APPSPAKSSSVDSSTHSGRLHEEARRLPHPPIRHQVSTPILALSGGLGEPRMLSPTSTL  
APALLPALAPTPAPALAPVPVSPQSPNLLTYICPWENAELPAKQENVPQEGPSGPERGHH  
SPAPARARLWRALSAVEKSRAGENEMDAEDAHHQREANDVDEDRPKIFPKSHSLKAPVQ  
QGSMSRLGLAIKALTRSRSTYREKESVEESPEGQNSGTAGESMGAPSRSPRLGRPKAVSK  
QAALIPSDDKESLQNNQNAHTSRMLQVCQREGSREQEDRGRMTQGLGERKAERAGKTGL  
AMLRQVSRDKNIKQSKETPVGWQELPKAGLQSLGSADHRVAEVCWPWEVTESETRQPDSGN  
KAEICPWETSEGAPESRALRQDPGDSQKKRGEARGKSEPIDVVPMMRKKPERLVREQEAV  
CPWESADRGLSPGSAPQDPGRIRDKSEAGDSVEARKVEKPGWEAAGPEAHTPDITKAEP  
CPWEASEGGEDGKPAQEAVKDLPEKQKTRKATFWKEQKPGGDLES LCPWESTDFRGPSA  
VSIQAPGSSECSGLSGIAEVLWEAGDAPAIQKAEICPWELDDNVMGQEMLSLGTGRE  
SLQEKEKASRKGSFGEMGEQTVKAVQKLSQQQESVCPRESTVPGHSSPCLDNSSKAGSQ  
FLCNGGS RATQVCPQEDLRPEAQEATPAKTEICPWEVNERTREEWTSQVPRGGESQKDK  
EKMPGKSEIEDVTAWKPEGQIQKQEA VGPWESVDPGSFSPQPRPDTERPQTLLQMSG  
VGSKAADICPLDVEENLTAGKAEICPWEVGAGAGEERALGAEAIRKSPNDTGKVSADLGP  
RERAVTAPEKPQKPTPEWEVACPWGSGVPGACSQHPGTLDADGPKAGFQELDHMGCRPGE  
VCPWEAQEAATSEKAKICPWEVSEGTGKGLDQKAGSESAEQREKALEKGRLTSLGEDVS  
KGMALCQQQETICIWENKDLRESPAQAPKISDL PSSMSSEVAEGHSL EATEKGDLRQDP  
KTGSFPEHITQEKA PAADTEEFTTEDGEKTSHELQSVCPWETTAPADSVSHLDRQRPDQP  
KASSQRLVSTGGRAADVCPWDVPDAGVYKSDSSAKAETCPWEVTERIPVKGVS RQDGKGD  
SQEEKGRAPEKSEPKGVPVQKKPEMADFRQQEAVCPWESQDGKGLSPQPAPDASDRSRGS  
SEAAGSVETRVAEVLWEVVEAPS AKKAEICPWEAGGAAEEGEQERESQGQGEMFLQKA  
GPGGTEEHFSKAAAKPREQEA VCPGEGTSGGGLLPQSGALDPELKVSPKEAGSMGSRMAE  
LCQWEITDPEGNIKGTMDICPGEETGVPSEESGLLALTATRREFFPTAPEKPLCLLVH  
GPLDHFFPESKIPCPKVS RPASTFTLEGVRELQGPSGLEPRTSLAPEPSLQEAESQSSSL  
TEDSGQVAFEAQYEEFTPPTVYPWDWE

>sp|P13224|GP1BB\_HUMAN Platelet glycoprotein Ib beta chain OS=Homo sapiens GN=GP1BB PE=1  
SV=1

MSGSPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFPVDTEL  
VLTGNNLTALPPGLLDALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVA  
PPALRGRLPYLADELRAACAPGPLCWGALAAQLALLGLLHALLLVLLLCRLRRLRA  
RARARAAAARLSLTDPLVAERAGTDES

>sp|P14770|GPIX\_HUMAN Platelet glycoprotein IX OS=Homo sapiens GN=GP9 PE=1 SV=3

MPAWGALFLLWATAEATKDCSPCTCRALETMGLWVDCRGHGLTALPALPARTRHLLLAN  
NSLQSVPPGAFDHLPLQLQLTLDVTQNPWHDCSLTYLRLWLEDRTPEALLQVRCASPSLAA  
HGPLGRLTGYQLGSCGWQLQASWVRPGVLWDVALVAVAALGLALLAGLLCATTEALD

>sp|P51674|GPM6A\_HUMAN Neuronal membrane glycoprotein M6-a OS=Homo sapiens GN=GPM6A PE=1  
SV=2

MEENMEEGQTQKGCFECCIKCLGGIPYASLIATILLYAGVALFCGCGHEALSGTVNIIQT  
YFEMARTAGDTLDVFTMIDIFKYVIYGIAAAFFVYGILLMVEGFFTTGAIKDLYGDFKIT  
TCGRCSVSAWFIMLTYLFWLAWLGVTAFSTSLPVYMYFNLWTICRNTTLVEGANLCLDLRQF  
GIVTIGEEKKICTVSENFLRMCESTELNMTFHLFIVALAGAGAAVIAMVHYLMVLSANWA  
YVKDACRMQKYEDIKSKEEQELHDIHSTRSKERLNAYT

>sp|Q9NS67|GPR27\_HUMAN Probable G-protein coupled receptor 27 OS=Homo sapiens GN=GPR27  
PE=2 SV=1

MANASEPGSGGGEAAAALGLKLATLSLLLCVSLAGNVLFALLIVRERSLHRAPYYLLLDL  
CLADGLRALACLPVLAARRAAAAAGAPPGALGCKLLAFLAALFCFHAAFLLLGVGVTR  
YLAIAHHRFYAERLAGWPCAAMLVCAAWALALAAAFPPVLDGGGDDDEDAPCALEQRPDGA  
PGALGFLLLLAVVVGATHLVYLRLLFFIHDRRKMRLPARLVPVSHDWTFHGPGATGQAAA  
NWTAGFRGPTPPALVGIRPAGPGRGARRLLVLEEFKTEKRLCKMFYAVTLLFLLWGPY  
VVASYLRVLVRPGAVPQAYLTASVWLTFQAAGINPVVCFNRELRCFRAQFPCCQSPR  
TTQATHPCDLKGIGL

>sp|075388|GPR32\_HUMAN Probable G-protein coupled receptor 32 OS=Homo sapiens GN=GPR32  
PE=2 SV=1

MNGVSEGRGCSDRQPGVLTRDRSCSRKMNSSGCLSEEVGSLRPLTVVILSASIVVGVLG  
NGLVLWMTVFRMARTVSTVCFHLALADFMLSLSLPIAMYYIVSRQWLLGEWACKLYITF  
VFLSYFASNCLLVFISVDRCISVLYPVWALNHRTVQRASWLAFGVWLLAAALCSAHLKFR  
TTRKWNGCTHCYLAFNSDNETAQIWIIEGVVEGHIIGTIGHFLLGFLGLPLAIIIGTCAHLIR  
AKLLREGWVHANRPKRLLLVLVS AFFIFWSPFNVLLVHLWRRVMLKEIYHPRMLLILQA  
SFALGCVNSSLPFLYVFGVGRDFQEKFFQSLTSALARAFGEEFLSSCPRGNAPE

>sp|Q9HC97|GPR35\_HUMAN G-protein coupled receptor 35 OS=Homo sapiens GN=GPR35 PE=2 SV=4

MNGTYNTCGSSDLTWPPAIKLGFIAYLVGLLVGLLLNSLALWVFCCRMQQWTETRIYMT  
NLAVADLCLLCTLPFVLHSLRDTSDTPLCQLSQGIYLTNRYMSISLVTAIAVDRYVAVRH  
PLRARGLSRPRQAAAVCAVLWVLVIGSLVARWLLGIQEGGFCFRSTRHNFNSMAFPLLGF  
YLPLAVVVFCSLKVVTALAQRPPDVGQAETRKAARMVWANLLVFVVCFLPLHVGLTVR  
LAVGWNACALLETIRRALYITSKLSDANCCLDAICYYYMAKEFQEASALAVAPSAKAHKS  
QDSLCTLA

>sp|Q9Y5Y3|GPR45\_HUMAN Probable G-protein coupled receptor 45 OS=Homo sapiens GN=GPR45  
PE=2 SV=2

MACNSTSLEAYTYLLNNTSNASDSGSTQLPAPLRISLAIVMLMTVVGFLGNTVVCIIVY  
QRPAMRSAINLLLATLAFSDIMLSLCCMPFTAVTLITVRWHFGDHFCLRSATLYWFFVLE  
GVAILLIISVDRFLIIVQRQDKLNPRRAKVIIAVSWVLSFCIAGPSLTGWTLVEVPARAP

QCVLGYTELPADRAYVVTLLVAVFFAPFGVMLCAYMCILNTRKNAVVRVHNQSDSLDLRQ  
LTRAGLRRLQRQQVSVDL SFKTKAFTTILILFVGFSLCWLPHSVYSLLSVFSQRFYCGS  
SFYATSTCVLWLSYLKSVFNPIVYCWRIKKFREACIELLPQTFQILPKVPERIRRRIQPS  
TVYVCNENQSAV

>sp|P46093|GPR4\_HUMAN G-protein coupled receptor 4 OS=Homo sapiens GN=GPR4 PE=2 SV=2

MGNHTWEGCHVDSRVDHLFPFSLYIFVIGVGLPTNCLALWAAYRQVQQRNELGVYLMNLS  
IADLLYICTLPLWVDYFLHHDNWIHGP GSCKLFGFIFYTNIYISIAFLCCISVDRYLAVA  
HPLRFARLRRVKTAVAVSSVWATELGANSAPLFHDELFRDRYNHTFCFEKFPMEGWVAW  
MNLYRVFVGFLFPWALMLLSYRGILRAVRGSVSTERQEKAKIKRLALSIAIVLVCFAPY  
HVLLLSRSATYLRPWDCGFEERVFSAYHSSLAFTSLNCVADPILYCLVNEGARS DVAKA  
LHNLLRFLASDKPQEMANASLTLETPLTSKRNSTAKAMTGSWAATPPSQGDQVQLKMLPP  
AQ

>sp|P46095|GPR6\_HUMAN G-protein coupled receptor 6 OS=Homo sapiens GN=GPR6 PE=1 SV=1

MNAAAASLNDSSQVVVAAEGAAAAATAAGGPD TGEGWPPAAAAAGAGGGANGSLELSSQL  
SAGPPGLLLPAVNPDVLLCVSGTVIAGENALVVALIASTPALRTPMFVLVGLATADLL  
AGCGLILHFVFQYLPSETVSLTVGFLVASFAASVSSLLAITVDRYLSLYNALTYYSSRR  
TLLGVHLLAATWTVSLGLLPLVGWNC LAERAACSVVRPLARSHVALLSAAFFMVFGI  
MLHLYVRICQVVRHAHQIALQQHCLAPPHLAATRKGVGT LAVVLGTFGASWLPFAIYCV  
VGSHPDPAVYTYATLLPATYNSMINPIIYAFRNQEIQRALWLLCGCFQSKVPFRSRSPS  
EV

>sp|Q96P69|GPR78\_HUMAN G-protein coupled receptor 78 OS=Homo sapiens GN=GPR78 PE=1 SV=2

MGPGEALLAGLLVMVLAVALLSNALVLLCCAYS AELRTRASGVLLVNL SLGHLLAALDM  
PFTLLGVMRGRTSPAGACQVIGFLDTFLASNAALSVAALSADQWLAVGFPLRYAGR LRP  
RYAGLLLGCAWGQSLAFSGAALGCSWLGYSSAFASCSLRLPPEPERPRFAAFTATLHVG  
FVLPLAVLCLTSLQVHRVARRHCQRMDTVMKALALLADLHPSVRQRCLIQKRRRHRAT  
RKIGIAIATFLICFAPYVMTRLAELVPFVTVNAQWGILSKCLTYSKAVADPFTYSLRRP  
FRQVLAGMVHRLLRTPRPASTHDSSLDVAGMVHQLLRTPRPASTHNGSVDTENDSCLQ  
QTH

>sp|Q9NQS5|GPR84\_HUMAN G-protein coupled receptor 84 OS=Homo sapiens GN=GPR84 PE=2 SV=1

MWNSSDANFSCYHESVLGYRYVAVSWG VVVAVTGTVG NVLTLLALAIQPKLRTRFNLLIA  
NLTLADLLYCTLLQPFSDTYLHLHWRTGATFCRVFGLLLFASNSVSILTLCLIALGRYL  
LIAHPKLFPQVFSAGKIVLALVSTWVVG VASFAPLWPIYILVPVCTCSFDRIRGRPYTT  
ILMGIYFVLGLSSVGFYCL IHRQVKRAAQALDQYKLRQASIHSNHVARTDEAMPGRFQE  
LDSRLASGGPSEGISSEPVSAATTQTLEGSSEVG DQINSKRAKQMAEKSPPEASAKAQP  
IKGARRAPDSSSEFGKVTRMCFVFLCFALSYIPFLLLNILDARVQAPRVVHMLAANLTW  
LNGCINPVLYAAMNRQFRQAYGSILKRGPRSFHRLH

>sp|Q9GZN0|GPR88\_HUMAN Probable G-protein coupled receptor 88 OS=Homo sapiens GN=GPR88  
PE=2 SV=2

MTNSSSTSTSSTTGGSLLLLCEEEESWAGRRIPV SLLYSGLAIGGTLANGMVIYLVSSFR  
KLQTTNFAFIVNGCAADLSVCALWMPQEAVLGLLPTGSAEPPADWDGAGGSYRLLRGGLL  
GLGLTVSLLSHCLVALNRYLLITRAPATYQALYQRRHTAGMLALSWALALGLVLLLPWA  
PRPGAAPPRVHYPALAAAALLAQ TALLHCYLGIVRRVRVSVKRVSVLNFHLLHQLPGC  
AAAAAFAFGAQHAPGPGGAHPAQQAQPLPPALHPRAQRRLSGLSVLLCCVFLLATQPL  
VWVSLASGFSLPVPWGVQAASWLLCCALSALNPLLYTWRNEEFRRSVRSVLPVGVDAAAA

AVAATAVPAVSQAQLGTRAAGQHW

>sp|Q8WXG9|GPR98\_HUMAN G-protein coupled receptor 98 OS=Homo sapiens GN=GPR98 PE=1 SV=2

MSVFLGPGMPSASLLVNLLSALLILFVFGETEIRFTGQTEFVVNETSTTVIRLI IERIGE  
PANVTAIVSLYGEDAGDFDITYAAAFIPAGETNRTVYIAVCDDDLPEPDETFIFHLTLQK  
PSANVKLGWPRTVTVTILSNDNAFGIISFNMLPSIAVSEPKGRNESMPLTLIREKGTYGM  
VMVTFEVEGGPNPPDEDLSPVKGNITFPPGRATVIYNLTVLDDDEVPEDEIFLIQLKSVE  
GGAEINTSRNSIEIIKKNDSPVRFLQSIYLVPEEDHILIPVVRGKDNNGNLIGSDEYE  
VSISYAVTTGNSTAHAAQNLDIFDLQPNNTTVFPPFIHESHLKFQIVDDTIPEIAESFHI  
MLLKDTLQGDVAVLISPSVVQVTIKPNDKPYGVLFSNSVLFERTVIIDEDRISRYEEITVV  
RNGGTHGNVSANWVLTNRNDPSPVTADIRPSSGVLHFAQGQMLATIPLTVVDDDLPEEA  
EAYLLQILPHTIRGGAEVSEPAELLFYIQDSDDVYGLITFFPMENQKIESSPGERYLSLS  
FTRLGGTKGDVRLLYSVLYIPAGAVDPLQAKEGILNISRRNDLIFPEQKTQVTTKLPIN  
DAFLQNGAHFLVQLETVELLNIIPLIPIISPRFGEICNISLLVTPAIANGEIGFLSNLPI  
ILHEPEDFAAEVVYIPLHRDGTGQATVYWSLKPSGFNSKAVTPDDIGPFNGSVLFLSGQ  
SDTTINITIKGDDIPEMNETVTLSDRVNVENQVLKSGYTSRDLIILENDPGGVFEFSP  
ASRGPYVIKEGESVELHIIRSRGSLVKQFLHYRVEPRDSNEFYGNTGVLEFKPGEREIVI  
TLLARLDGIPELDEHYWVVLSSHGERESKLGSATIVNITILKNDDPHGIIIEFVSDGLIVM  
INESKGDAIYSAVYDVVRNRGNFGDVSVSWVSPDFTQDVFPVQGTVVFGDQEFKSNITI  
YSLPDEIPEEMEEFTVILLNGTGGAKVGNRTTATLRIRRNDDPIYFAEPRVVRVQEGETA  
NFTVLRNGSVDVTCMVQYATKD GKATARERDFIPVEKGETLIFEVGSRRQSSISIFVNEDG  
IPETDEPFYIILLNSTGDTVYQYGVATVIEANDDPNGIFSLEPIDKAVEEGKTNAFWI  
LRHRGYFGSVSVSWQLFQNDALQPGQEFYETSGTVNFM DGEEAKPIILHAFDPKIPFEN  
EFYFLKLVNISGGSPGPGGQLAETNLQVTVMVPFNDDPFGVIFLDPECLEREVAEDVLSE  
DDMSYITNFTILRQQGVFGDVQLGWEILSSEFPAGLPPMIDFLLVGIFPTTVHLQQHMRR  
HHSGTDALYFTGLEGAFTVNPKYHPSRNNTIANFTFSAWVMPNANTNGFIIAKDDGNGS  
IYYGVKIQTNESHVTLSLHYKTLGSNATYIAKTTVMKYLEESVWLHLLIILEDGIIIEFYL  
DGNAMPRGIKSLKGEAITDGPILRIGAGINGNDRFTGLMQDVRSYERKLTLEEIYELHA  
MPAKSDLHPISGYLEFRQGETNKSFIISARDDNDEEGEELFILKLVS VYGGARISEENTT  
ARLTIQKSDNANGLFGFTGACIPEIAEEGSTISCVVERTRGALDYVHVFTISQIETDGI  
NYLVDDFANASGTITFLPWQRSEVLNIYVLDDDIPELNEYFRVTLVSAIPGDGKLGSTPT  
SGASIDPEKETDITIKASDHPYGLLQFSTGLPPQPKDAMTLPASSVPHITVEEEDGEIR  
LLVIRAQGLLGRVTAEFRTVSLTAFSPEDYQNVAGTLEFQPGERYKYIFINITDNSIPEL  
EKSFKVELLNLEGGVAELFRVDGSGSGDGM EFFLPTIHKRASLGVASQILVTIAASDHA  
HGVFEFSPESLFSVGTEPEDGYSTVTNLNIRHHGTLSPVTLHWNIDSDPDGLAFTSGNI  
TFEIGQTSANITVEILPDEDPELDKAFSVSVLSVSSGSLGAHINATLTVLASDDPYGIFI  
FSEKNRPVKVEEATQNITLSIIRLKGLMGKVLVSYATLDDMEKPPYFPPNARATQGRDY  
IPASGFALFGANQSEATIAISILDDDEPERSESVFIELLNSTLVAKVQSR SIPNSPRLGP  
KVETIAQLIIIANDDAFGTLQLSAPIVRVAENHVGPIINVTRTGAFADVSVKFKAVPIT  
AIAGEDYSIASSDVVLEGETSKAVPIYVINDIYPELEESFLVQLMNETTGARLGALTE  
AVIIIEASDDPYGLFGFQITKLIVEEPEFNSVKVNLPIIRNSGTLGNVTVQWVATINGQL  
ATGDLRVVSGNVTFAPEGTIQTLLEVLADDVPEIEEVIQVQLTDASGGGTIGLDRIANI  
IIPANDDPYGTVAFAQM VYRVQEPLERSSCANITVRRSGGHFGRLLLFYSTSDIDVVALA  
MEEGQDLLSYYESPIQGVDPDLWRTWMNVSAVGEPLYTCATLCLKEQACSAFSFFSASEG  
PQCFWMTSWISPAVNNSDFW TYRKNMTRVASLFSGQAVAGSDYEPVTRQWAIMQEGDEFA

NLTVSILPDDFPEMDESFLISLLEVHLMNISASLKNQPTIGQPNISTVVIALNGDAFGVF  
VIYNISPNTSEDGLFVEVQEQPQTLVELMIHRTGGSLGQVAVEWRVVGGTATEGLDFIGA  
GEILTFAEGETKKTVILTILDDSEPEDDESIIIVSLVYTEGGSRI LPSSD TVRVN ILANDN  
VAGIVSFQTASRSVIGHEGEILQFHVIRTFPGRGNVTVNWKIIGQNL ELNFANFSGQLFF  
PEGSLNTTLFVHLLDDNIPEEKEVYQVILYDVRTQGVPPAGIAL LDAQGYAAVL TVEASD  
EPHGVLNFALSSRFVLLQEANITIQLFINREFGSLGAINVYTTVPGMLSLKNQTVGNLA  
EPEVDFVPIIGFLILEEGETAAAINITILEDDVPELEEYFLVNLTYVGLTMAASTSFPPR  
LDSEGLTAQVIIDANDGARGVIEWQQSRFEVNETHGSLTLVAQRSREPLGHVSLFVYAQN  
LEAQVGLDYIFTMILHFADGERYKVNIMILDDDIP EGDEKFQLILTNPSGLELGKNT  
IALIIVLANDDGPVLSFNNSEHFFLREPTALYVQESVAVLYIVREPAQGLFGTVTVQFI  
VTEVNSSNESKDLTPSKGYIVLEEGVRFKALQISAILDTEPEMDEYFVCTLFNPTGGARL  
GVHVQTLITVLQNQAPLGLFSISAVENRATSIDIEEANRTVYLVNSRTNGIDLAVSVQWE  
TVSETAFGMRGMDVVSFVSFLDESASGWCFFTL ENLIYGIMLRKSSVTVYRWQGIFIP  
VEDLNIENPKTCEAFNIGFSPIYVITHEERNEEKPSLNSVFTFTSGFKLFLVQTIIILES  
SQVRYFTSDSQDYLIASQRDDSEL TQVFRWNGGSFVLHQKLPVRGVL TVALFNKGGSVF  
LAISQANARLNSLLFRWSGSGFINFQEVPSGTTEVEALSSANDIYLIFAENVFLGDQNS  
IDIFIWEMGQSSFRYFQSVDFAAVNRIHSFTPASGIAHILLIGQDMSALYCWN SERNQFS  
FVLEVPSAYDVASVTVKSLSNSSKNLIALVGAHSHIYELAYISSHSDFIPSSGELIFEPGE  
REATIAVNILDDTVPEKEESFKVQLKNPKGGAEIGINDSVTITILSNDDAYGIVAFQNS  
LYKQVEEME QDSLVTLNVERLKGTYGRITIAWEADGSISDIFPTSGVILFTEGQVLSTIT  
LTLADNIPELSEVVIVTLTRITTEGVEDSYKGATIDQDRKSVITTLPNDS PFGLVGWR  
AASVFIRVAEPKENTTLQLQIARDKLLGDIAIHLRAQPNFLLHVDNQATENEDYVLQE  
TIIIMKENIKEAHAEVSILPDDLPELEEGFIVTITEVNLVNSDFSTGQPSVRRPGMEIAE  
IMIEENDDPRGIFMFHVTRGAGEVITAYEVPPLNVLQVPVVRLAGSFGAVNVYWKASPD  
SAGLEDFKPSHGILEFADKQVTAMIEITIIDDAEFELTETFNISLISVAGGGRLGDDVVV  
TVVIPQNDS PFVGFGFEETVMIDESLSSDDPDSYVTLTVVRSPGGKGTVRLEWTIDEKA  
KHNLSPLNGTLHFDETESQKTIVLHTLQDTVLEEDRRFTIQLISIDEVEISPVKGSASII  
IRGDKRASGEVGIAPSSRHILIGEPSAKYNGTAIISLVRGPGILGEVTVFWRIFPPSVGE  
FAETSGKLTMRDEQSAVIVVIALNDDIPEEKSFYEFQLTAVSEGGVLSSESSTANITVV  
ASDSPYGRFAFSHEQLRVSEAQRVNITIIRSSGDFGHVRLWYKTMSTAEAGLDFVPAAG  
ELLFEAGEMRKSLHVEILDDDYPEGPEEFSLTITKVELQGRGYDFTIQENGLQIDQPPEI  
GNISIVRIIMKNDAEGII EFDPKYTA FEVEEDVGLIMIPVVR LHGTYGYVTADFISQS  
SSASPGGV DYILHGSTVTFHQGNLSFINISIIDNESEFEETIEILLTGATGGAVLGRH  
LVSRIIIAKSDSPFGVIRFLNQSKISIANPNSTMILSLVLERTGGLLGEIQVNWETVGP  
SQAALLPQNRDIADPVSGLFYFGEGEGVRTIILTIYPHEEIEVEETFI IKLHLVKGEAK  
LDSRAKDVTLTIQEFDPNGVVQFAPETLSKKTYSEPLALEGPLLITFFVRRVKGTFGEI  
MVYWELSSEFDITEDFLSTSGFFTADGESEASFDVHLLPDEVPEIEEDYVIQLVSVEGG  
AELDLEKSITWFSVYANDDPHGVFALYSDRQSILIGQNLIRSIQINITRLAGTFGDVAVG  
LRISSDHKEQPIVTENAERQLVVKDGATYKVDVPIKNQVFLSLGSNFTLQLVTVM LVGG  
RFYGMPTILQEAKSAVLPVSEKAANSQVGFE STAFQLMNITAGTSHVMISRRGTYGALSV  
AWTTGYAPGLEIPEFIVVGNMTPTLGSLSFSGHEQRKGVFLWTFPSPGWPEAFVLHLSGV  
QSSAPGGAQLRSGFIVAEI EPMGVFQFSTSSRNII VSED TQMIRLHVQRLFGFHSDLIKV  
SYQTTAGSAKPLEDFEPVQNGELFFQKFQTEVD FEITIIINDQLSEIEEFFYINLTSVEIR  
GLQKFDVNWSPRLNLD FSVAVITILDNDLAGMDISFPETTVAVAVDTTLIPVETESTTY

LSTSKTTTILQPTNVVAIVTEATGVSAIPEKLVTLHGTPAVSEKPDVATVTANVSIHGT  
SLGPSIVYIEEEMKNGTFNTAEVLIRRTGGFTGNVSITVKTFGERCAQMEPNALPFRGIY  
GISNLTWAVEEEDFEEQTLTLIFLDGERERKVSQILDDDEPEGQEFFYVFLTNPQGGAQ  
IVEEKDDTGFAAFAMVIITGSDLHNGIIGFSEESQSGLELREGAVMRRHLIVTRQPNRA  
FEDVKVFWRVTLNKTVVVLQKDGVLVEELQSVSGTTTCTMGQTKCFISIELKPEKVPQV  
EVYFFVELYEATAGAAINNSARFAQIKILESDESQSLVYFSVGSRLAVAHKKATLISLQV  
ARDSGTGLMMSVNFSTQELRSAETIGRTIISPAISGKDFVITEGTLVFEPGQRSTVLDVI  
LTPETGSLNSFPKRFQIVLFDPKGGARIDKVYGTANITLVSDADSQAIWGLADQLHQPVN  
DDILNRVLHTISMKVATENTDEQLSAMMHLIEKITTEGKIQAFSVASRTLFEILCSLIN  
PKRKDTRGFSHFAEVTENFAFSLTNVTCGSPGEKSKTILDSCPYLSILALHWYPQQING  
HKFEGKEGDYIRIPERLLDVQDAEIMAGKSTCKLVQFTEYSSQQWFISGNNLPTLKNKVL  
SLSVKGQSSQLLTNDNEVLYRIYAAEPRIIPQTSCLLWNQAAASWLSDSQFCKVVEETA  
DYVECACSHMSVYAVYARTDNLSSYNEAFTSGFICISGLCLAVLSHIFCARYSMFAAKL  
LTHMMAASLGTQILFLASAYASPLAEESCSAMAAVTHYLYLCQFSWMLIQSVNFWYVLV  
MNDEHTERRYLLFFLLSWGLPAFVVILLIVILKGIYHQSMSQIYGLIHGDLCFIPNVYAA  
LFTAALVPLTCLVVVFVFIHAYQVKPQWKAYDDVFRGRTNAAEIPILILYLFALISVTWL  
WGGLHMAYRHFWMVLVLFVIFNSLQGLYVFMVYFILHNQMCCPMKASYTVEMNGHPGPSTA  
FFTPGSGMPPAGGEISKSTQNLI GAMEEVPPDWERASFQQGSQASPDLPSPQNGATFPS  
SGGYGQGLIADEESQEFDDLIFALKTGAGLSVSDNESGQGSQEGGTLTDSQIVELRRIP  
IADTHL

>sp|Q9Y4H4|GPSM3\_HUMAN G-protein-signaling modulator 3 OS=Homo sapiens GN=GPSM3 PE=1 SV=1  
MEAERPQEEEDGEQGPQDEEGWPPPNSTTRPWSAPSPPPPGTRHTALGPRSASLLSL  
QTELLDLVAEAQSRRLLEEQRATFYTPQNPSSLAPAPLRPLEDREQLYSTILSHQCQRME  
AQRSEPPLPPGGQELLELLLRVQGGRMEEQRSRPPTHTC

>sp|Q9BRR8|GPTC1\_HUMAN G patch domain-containing protein 1 OS=Homo sapiens GN=GPATCH1  
PE=1 SV=1

MAARDSSEEDLVSYGTGLEPLEEGERPKKPIPLQDQTVRDEKGRYKRFHGAFGSGGSAG  
YFNTVGSKEGWPSTFVSSRQNRADKSVLGPEDFMDEEDLSEFGIAPKAIVTTDDFASKT  
KDRIREKARQLAAATAPIPGATLLDDLITPAKLSVGFELLRKMGWKEGGVGPRVKRRPR  
RQKPDPGVKIYGCALPPGSSEGSEGEDDDYLPDNTFAPKDVTPVDFTPKDNVHGLAYKG  
LDPHQALFGTSGEHFNLFSGGSERAGDLGEIGLNKGRKLISGQAFGVGALEEDDDIYA  
TETLSKYDTVLKDEEPDGLYGTAPRQYKNQKESEKDLRYVGKILDGFSLASKPLSSKK  
IYPPPELPRDYRPVHYFRPMVAATSENSHLLQVLSSESAGKATPDGTHSKHQLNASKRAE  
LLGETPIQGSATSVLEFLSQDKERIKEMKQATDLKAAQLKARSLAQNQAQSSRAQLSPAA  
AAGHCSWNMALGGGTATLKASNFKPFAKDPEKQKRYDEFLVHMKQGGKDALERCLDPSMT  
EWERGRERDEFARAALLYASSHSTLSSRFTHAKEEDSDQVEVPRDQENDVGDQSAVKM  
KMFGLTRDTFEWHDPKLLCKRFNVPDPYDSTLVGLPRVKRDKYSVFNFLTLPETASLP  
TTQASSEKVSQHRGPDKSRKPSRWDTSKHEKKEDSISEFLSLARSKAEPKQSSPLVNK  
EEHAPELSANTVKNKDVAQAEGEGRPSMDLFRAIFASSSDEKSSSEDEQGDSEDDQ  
AGSGEANFQSSQDLDGETSSVAHALVPAPQEPPPSFPIQKMQIDEREFGPRLPPVFCP  
NARQTLEVPQKEKHKKNDKHKAKKEHRRKKEKKKKHRKHKHKGKQKNKKPEKSSSESS  
DSSDSQSDEETADVSPQELLRLKSLPLRRQ

>sp|P02729|GLUR\_HUMAN Urine glycopeptide OS=Homo sapiens PE=1 SV=1  
CEHSHDGA

>sp|O15488|GLYG2\_HUMAN Glycogenin-2 OS=Homo sapiens GN=GYG2 PE=1 SV=2

MSETEFHGAQAGLELLRSSNSPTSASQSAGMTVTDQAFVTLATNDIYCQALVGLGQSLR  
RHRLTRKLVVLITPQVSSLLRVILSKVFDEIVNLIDSADYIHLAFLKRPELGLTLTKL  
HCWTLTHYSKCVFLDADTLVLSNVDELFDGRGEFSAAPDPGWPDCFNSGVFVFQPSLHCHK  
LLLQHAMEHGSFDGADQGLLNSFFRNWSTTDIHKHLPFIYNLSSNTMYTYSAPFKQFGSS  
AKVVHFLGSMKPWNKYKPNPQSGSVLEQGSASSSQHQAFLHLWWTVYQNNVLPYKSVQA  
GEARASPGHTLCHSDVGGPCADSASGVGECENSTPSAGVPCANSPLGSNQAQGLPEPT  
QIVDETLSPGRRSEDMIACPETETPAVITCDPLSQSPQPADFTETETILQPAKVES  
VSSEETFEPSELPAEALRDPQLQDALEVDLAVSVSQISIEEKVKELSPEEERRKWEGR  
IDYMGKDAFARIQEKLDRLFQ

>sp|P46976|GLYG\_HUMAN Glycogenin-1 OS=Homo sapiens GN=GYG1 PE=1 SV=4

MTDQAFVTLTTNDAYAKGALVGLSSLKQHRTRRLVVLATPQVSDSMRKVLETVFDEVIM  
VDVLDSGDSAHLTLMKRPELGVTLTKLHCWSLTQYSKCVFMDADTLVLANIDDLFDREEL  
SAAPDPGWPDCFNSGVFVYQPSVETYNQLLHLASEQGSFDDGQILNTFFSSWATTDIR  
KHLPIYNLSSISIYSLPAFKVFGASAKVVHFLGRVKPWNYTDPKTSVKSEAHDPNM  
THPEFLILWWNIFTTNVLPQLQFGLVKDTCYVNVLSDLVYTLAFSCGFCRKEDVSGAI  
SHLSLGEIPAMAQPFVSSEERKERWEQGDYMGADSFNKRKLDTYLQ

>sp|Q969I3|GLYL1\_HUMAN Glycine N-acyltransferase-like protein 1 OS=Homo sapiens  
GN=GLYATL1 PE=1 SV=1

MILLNNSHKLLALYKSLARSIPESLKVYGSVYHINHGPNFMEVLVDSWPEYQMVIIIRPQ  
KQEMTDDMSYTNVYRMFSKEPKSEEVKNCEIVNWKQRLQIQGLQESLGEGIRVATFS  
KSVKVEHSRALLVTEDILKLNASSKSKLGSWAETGHPDDEFESETPNFKYAQLDVSYSGL  
LVNDNWKRGNERSLHYIKRCIEDLPAACMLGPEGVPVSWVTMDPSCEVGMAYSMEKYRR  
TGNMARVMVRYMKYLRQKNIPFYISVLEENEDSRRFVGQFGFFEASCEWHQWTCYPQNLV  
PF

>sp|O43555|GON2\_HUMAN Progonadoliberin-2 OS=Homo sapiens GN=GNRH2 PE=2 SV=1

MASSRRGLLLLLLLTAHLGPSEAQHWSHGWYPGGKRALSSAQDPQNALRPPGRALDTAAG  
SPVQTAHGLPSDALAPLDDSMPEWEGRTTAQWSLHRKRHLARTLLTAAREPRPAPPSSNKV

>sp|Q9HD26|GOPC\_HUMAN Golgi-associated PDZ and coiled-coil motif-containing protein  
OS=Homo sapiens GN=GOPC PE=1 SV=1

MSAGGPCPAAAGGGPGGASCSVGAPGGVSMFRWLEVLEKEFDKAFVDVDLLGEIDPDQA  
DITYEGRQKMTSLSSCFAQLCHKAQSVSQINHKLEAQLVDLKSELTTQAEKVVLEKEVH  
DQLQLHSIQLQLHAKTGQSADSGTIKAKLSGPSVEELERELEANKKEKMEQAQLEAEVK  
LLRKENEALRRHIAVLQAEVYGARLAAYLDKELAGRVQQIQLGRDMKGAHDKLWNQL  
EAEIHLHRHKTIVIRACRGRNDLKRPMQAPPGHDQDSLKKSQGVGPIRKVLLLKEDHEGLG  
ISITGGKEHGVPIILISEIHPGQPADRCGGLHVGDAILAVNGVNLRTKHKEAVTILSQQR  
GEIEFEVYVVAPEVDSDDENVEYEDESGHRYRLYLDELEGGGNPGASCKDTSGEIKVLQG  
FNKKAVIDTHENGDLGTASETPLDDGASKLDDLHTLYHKKS

>sp|Q9NPR9|GP108\_HUMAN Protein GPR108 OS=Homo sapiens GN=GPR108 PE=2 SV=3

MAVSERRGLGRGSPAEWGQRLLLVLLGGCSGRIHQLALTGEKRADIQLNSFGFYTNGL  
EVELSVLRRLGLREAEKSLVGFSLSRVSRGRVRSYSTDFQDCPLQKNSSSFLVFLIN  
TKDLQVQVRKYGEQKTLFIFPGLLPEAPSKPGLPKPQATVPRKVDGGGTSAAASKPKSTPA  
VIQGPSGDKDLVLGLSHLNNSYNFSFHVVIGSQAEQGYSLNFNHCNNSVPGKEHPFDI  
TVMIREKNPDGFLSAAEMPLFKLYMVMSACFLAAGIFWVSILCRNTYSVFKIHWMALA



FTKSISLLFHSINYFINSQGHPIEGLAVMYIIAHLKGAALLFITIALIGSGWAFIKYVL  
SDKEKKVFGIVIPMQVLNAVYIIIESREEGASDYVLWKEILFLVDLICCGAILFPVVWS  
IRHLQDASGTDGKVAVNLA KLKLRHYYVMICYVYFTRIIAILLQVAVPFQWQWLYQLL  
VEGSTLAFFVLTGYKFQPTGNPNYLQLPQEDEEDVQMEQVMTDSGFREGLSKVNKTASGR  
ELL

>sp|Q8TDT2|GP152\_HUMAN Probable G-protein coupled receptor 152 OS=Homo sapiens GN=GPR152  
PE=2 SV=1

MDTTMEADLGATGHRPRTELDDEDSYPQGGWDTVFLVALLLLGLPANGMAWLAGSQARH  
GAGTRLALLLLSLALSDFLFLAAAFQILEIRHGGHWPLGTAACRFYYFLWGVSYSSGLF  
LLAALSLDRCLLALCPHWYPGHRPVRLPLWVCAGVWVLATLFSVPWLVFPEAAVWWYDLV  
ICLDFWDSEELSLRMEVLGGFLPFLLLLCHVLTQATACRTCHRQQQPAACRGFARVAR  
TILSAYVVLRLPYQLAQLLYLAFLWDVYSGYLLWEALVYSDYLILLNSCLSPFLCLMASA  
DLRTLRSVLSSFAAALCEERPGSFTPTPTQQLDSEGPTLPEPMAEAQSQMDPVAQPQV  
NPTLQPRSDPTAQPQLNPTAQPQSDPTAQPQLNLMAQPQSDSVAQPQADTNVQTPAPAAS  
SVSPCDEASPTSSHPTPGALEDPATPPASEGESPSSTPPEAAPGAGPT

>sp|Q7Z3F1|GP155\_HUMAN Integral membrane protein GPR155 OS=Homo sapiens GN=GPR155 PE=2  
SV=2

MNSNLPANLTIAVNMTKTLPTAVTHGFNSTNDPPSMSITRLFPALLECFGIVLCGYIAG  
RANVITSTQAKGLGNFVSRFALPALLFKNMVVLNFSNVDWSFLYSILIAKASVFFIVCVL  
TLLVASPDSRFSKAGLFPIFATQSNDFALGYPIVEALYQTTYPEYLQYIYLVA PISLMML  
NPIGFIFCEIQKWKDTQNASQNKIKIVGLGLLRVLQNPIVFMVFIGIAFNFI LDRKVPVY  
VENFLDGLGNSFSGSALFYLG LTMVGKIKRLKKSASFVVLILLITAKLLVLP LCREMVEL  
LDKGD SVVNHTSLSNYAFLYGVFPVAPGVAIFATQFNMEVEIITSGMVISTFVSAPIMYV  
SAWLLTFPTMDPKPLAYAIQNVSFDISIVSLISLIWSLA ILLLSKKYKQLPHMLTTNLLI  
AQSI VCAGMMIWNFVKEKNFVGQILVFVLLYSSLYSTYLWTGLLAISLFLKKRERVQIP  
VGIIIIISGWGIPALLVGVLITGKHNGSDIDS AFFYGKEQMITTAVTLFCSILIAGISLM  
CMNQTAQAGSYEGFDQSQSHKVVEPGNTAFEE SPAPVNEPELFTSSIPETSCCSCSMGNG  
ELHCPSIEPIANTSTSEPVIPSFEKNHCVSRCNSQSCILAQEEEQYLQSGDQQLTRHVL  
LCLLLII GLFANLSSCLWWLFNQEPGRLYVELQFFCAVFNFGQGFISFGIFGLDKHLIIL  
PFKRRLEFLWNNKDTAENRDSPVSEEIKMTCQQFIHYHRDLCIRNIVKERRCGAKTSAGT  
FCGCDLVSWLIEVGLASDRGEAVIYGDRLVQGGVIQHITNEYEFRDEYLFYRFLQKSPEQ  
SPPAINANTLQQUERYKEIEHSSPPSHSPKT

>sp|Q9NS66|GP173\_HUMAN Probable G-protein coupled receptor 173 OS=Homo sapiens GN=GPR173  
PE=2 SV=1

MANTTGEPEEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAILSLLVLKERALHKAPYYF  
LLDLCLADGIRSAVCFPFVLASVRHGSSWTF SALSCKIVAFMAVLFCFHA AFMLFCISVT  
RYMAIAHHRFYAKRMTLWTCAAVICMAWTL SVAMAFPPVFDVGT YKFIREEDQCIFEHRY  
FKANDTLGFMLMLAVLMAATHAVYGKLLLF EYRHRKMKPVQMVP AISQNWTFHGPGATGQ  
AAANWIA GFGRGMPPTLLGIRQNGHAASRRLLGMDEVKGEKQLGRMFYAITLLFLLLWS  
PYIVACYWRV FVKACAVPHRYLATAVWMSFAQA AVNP IVCFLLNKDLKKCLRTHAPCWGT  
GGAPAPREPYCVM

>sp|Q86V85|GP180\_HUMAN Integral membrane protein GPR180 OS=Homo sapiens GN=GPR180 PE=2  
SV=1

MGGLRLLAVALTCCWWPQGSQGKTLRGSFSSTAAQDAQGQRIGHFEFHGDHALLCVRINN

I A V A V G K E A K L Y L F Q A Q E W L K L Q Q S S H G Y S C S E K L S K A Q L T M T M N Q T E H N L T V S Q I P S P Q  
T W H V F Y A D K Y T C Q D D K E N S Q V E D I P F E M V L L N P D A E G N P F D H F S A G E S G L H E F F F L L V L V  
Y F V I A C I Y A Q S L W Q A I K K G G P M H M I L K V L T T A L L L Q A G S A L A N Y I H F S S Y S K D G I G V P F M  
G S L A E F F D I A S Q I Q M L Y L L L S L C M G W T I V R M K K S Q S R P L Q W D S T P A S T G I A V F I V M T Q S V  
L L L W E Q F E D I S H S Y H S H N L A G I L L I V L R I C L A L S L G C G L Y Q I I T V E R S T L K R E F Y I T F  
A K G C I L W F L C H P V L A C I S V I F S D Y Q R D K V I T I G V I L C Q S V S M V I L Y R L F L S H S L Y W E V S S  
L S S V T L P L T I S S G H K S R P H F

>sp|P43304|GPDM\_HUMAN Glycerol-3-phosphate dehydrogenase, mitochondrial OS=Homo sapiens  
GN=GP2 PE=1 SV=3

M A F Q K A V K G T I L V G G G A L A T V L G L S Q F A H Y R R K Q M N L A Y V K A A D C I S E P V N R E P P S R E A Q  
L L T L Q N T S E F D I L V I G G G A T G S G C A L D A V T R G L K T A L V E R D D F S S G T S S R S T K L I H G G V R  
Y L Q K A I M K L D I E Q Y R M V K E A L H E R A N L L E I A P H L S A P L P I M L P V Y K W W Q L P Y Y W V G I K L Y  
D L V A G S N C L K S S Y V L S K S R A L E H F P M L Q K D K L V G A I V Y Y D G Q H N D A R M N L A I A L T A A R Y G  
A A T A N Y M E V V S L L K K T D P Q T G K V R V S G A R C K D V L T G Q E F D V R A K C V I N A T G P F T D S V R K M  
D D K D A A A I C Q P S A G V H I V M P G Y S P E S M G L L D P A T S D G R V I F F L P W Q K M T I A G T T D T P T D  
V T H H P I P S E E D I N F I L N E V R N Y L S C D V E V R R G D V L A A W S G I R P L V T D P K S A D T Q S I S R N H  
V V D I S E S G L I T I A G G K W T T Y R S M A E D T I N A A V K T H N L K A G P S R T V G L F L Q G G K D W S P T L Y  
I R L V Q D Y G L E S E V A Q H L A A T Y G D K A F E V A K M A S V T G K R W P I V G V R L V S E F P Y I E A E V K Y G  
I K E Y A C T A V D M I S R R T R L A F L N V Q A A E E A L P R I V E L M G R E L N W D D Y K K Q E Q L E T A R K F L Y  
Y E M G Y K S R S E Q L T D R S E I S L L P S D I D R Y K K R F H K F D A D Q K G F I T I V D V Q R V L E S I N V Q M D  
E N T L H E I L N E V D L N K N G Q V E L N E F L Q L M S A I Q K G R V S G S R L A I L M K T A E E N L D R R V P I P V  
D R S C G G L

>sp|Q96T91|GPHA2\_HUMAN Glycoprotein hormone alpha-2 OS=Homo sapiens GN=GPHA2 PE=1 SV=1  
M P M A S P Q T L V L Y L L V L A V T E A W G Q E A V I P G C H L H P F N V T V R S D R Q G T C Q G S H V A Q A C V G H  
C E S S A F P S R Y S V L V A S G Y R H N I T S V S Q C C T I S G L K K V K V Q L Q C V G S R R E E L E I F T A R A C Q  
C D M C R L S R Y

>sp|Q92643|GPI8\_HUMAN GPI-anchor transamidase OS=Homo sapiens GN=PIGK PE=1 SV=2  
M A V T D S L S R A A T V L A T V L L L S F G S V A A S H I E D Q A E Q F F R S G H T N N W A V L V C T S R F W F N Y R  
H V A N T L S V Y R S V K R L G I P D S H I V L M L A D D M A C N P R N P K P A T V F S H K N M E L N V Y G D D V E V D  
Y R S Y E V T V E N F L R V L T G R I P P S T P R S K R L L S D D R S N I L I Y M T G H G G N G F L K F Q D S E E I T N  
I E L A D A F E Q M W Q K R R Y N E L L F I I D T C Q G A S M Y E R F Y S P N I M A L A S S Q V G E D S L S H Q P D P A  
I G V H L M D R Y T F Y V L E F L E E I N P A S Q T N M N D L F Q V C P K S L C V S T P G H R T D L F Q R D P K N V L I  
T D F F G S V R K V E I T T E T I K L Q Q D S E I M E S S Y K E D Q M D E K L M E P L K Y A E Q L P V A Q I I H Q K P K  
L K D W H P P G G F I L G L W A L I I M V F F K T Y G I K H M K F I F

>sp|Q92917|GPKOW\_HUMAN G patch domain and KOW motifs-containing protein OS=Homo sapiens  
GN=GPKOW PE=1 SV=2

M A D S K E G V L P L T A A S T A P I S F G F T R T S A R R R L A D S G D G A G P S P E E K D F L K T V E G R E L Q S V  
K P Q E A P K E L V I P L I Q N G H R R Q P P A R P P G P S T D T G A L A D G V V S Q A V K E L I A E S K K S L E E R E  
N A G V D P T L A I P M I Q K G C T P S G E G A D S E P R A E T V P E E A N Y E A V P V E A Y G L A M L R G M G W K P G  
E G I G R T F N Q V V K P R V N S L R P K G L G L G A N L T E A Q A L T P T G P S R M P R P D E E Q E K D K E D Q P Q G  
L V P G G A V V V L S G P H R G L Y G K V E G L D P D N V R A M V R L A V G S R V V T V S E Y Y L R P V S Q Q E F D K N  
T L D L R Q Q N G T A S S R K T L W N Q E L Y I Q Q D N S E R K R K H L P D R Q D G P A A K S E K A A P R S Q H W L H R  
D L R V R F V D N M Y K G G Q Y Y N T K M I I E D V L S P D T C V C R T D E G R V L E G L R E D M L E T L V P K A E G D  
R V M V V L G P Q T G R V G H L L S R D R A R S R A L V Q L P R E N Q V V E L H Y D A I C Q Y M G P S D T D D D

>sp|Q13304|GPR17\_HUMAN Uracil nucleotide/cysteiny l leukotriene receptor OS=Homo sapiens  
GN=GPR17 PE=2 SV=2

MSKRSWWAGSRKPPREMLKLSGSDSSQSMNGLEVAPPGLITNFSLATAEQCGQETPLENM  
LFASFYLLDFILALVGNLALWLFIRDHKSGTPANVFLMHLAVADLSCVLVLPTRLVYHF  
SGNHWPFGEIACRLTGFLFYLNMYASIIYFLTCISADRFLAIVHPVKSLKLRPLYAHLAC  
AFLWVVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSLAVFTFPFITVTTCY  
LLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQ  
RILALANRITSCLTSLNGALDPIMYFFVAEKFRHALCNLLCGKRLKGPPPSFEGKTNESS  
LSAKSEL

>sp|Q6IC98|GRAM4\_HUMAN GRAM domain-containing protein 4 OS=Homo sapiens GN=GRAMD4 PE=1  
SV=1

MLRRLDKIRFRGHKRDDFLDLAESPNASDTECSDEIPLKVPRTSPRDSEELRDPAGPGTL  
IMATGVQDFNRTEFDRLEIKGHLEIALLEKHFLQEELRKLREETNAEMLRQELDRERQR  
RMELEQKVQEVLKARTEEQMAQQPPKGQAQASNGAERRSQGLSSRLQKWFYERFGEYVED  
FRFQPEENTVETEEPLSARRLTENMRRLKRGAKPVTNFVNLSALSDWYSVYTSIAIAFTV  
YMNAVWHGWAIPFLFLAILRLSLNYLIARGWRIQWSIVPEVSEPVEPPKEDLTVSEKFQ  
LVLDVAQKAQNLFGKMADILEKIKNLFMWVQPEITQKLYVALWAAFLASCFFPYRLVGLA  
VGLYAGIKFFLIDFIFKRCPRLRKYDTPYIIWRS LPTDPQLKERSSAAVSRLQTSSR  
SYVPSAPAGLGKEEDAGRFHSTKKGNFHEIFNLTENERPLAVCENGWRCCLINRDRKMPT  
DYIRNGVLYVTENYLCFESSKSGSSKRNVIKLVDITDIQKYKLSVLPGSGMGI AVSTP  
STQKPLVFGAMVHRDEAFETILSQYIKITSAAASGGDS

>sp|Q9UBQ7|GRHPR\_HUMAN Glyoxylate reductase/hydroxypyruvate reductase OS=Homo sapiens  
GN=GRHPR PE=1 SV=1

MRPVRLMKVFVTRRIPAEGRVALARAADCEVEQWDSDEIPAKELERGVAGAHGLLCLLS  
DHVDKRILDAAGANLKVISTMSVGIDHLALDEIKKRGIRVGYPDVLTDTTAELAVSLLL  
TTCRRLPEAIEEVKNGGWTSWKPLWLCGYGLTQSTVGIIIGLGRIGQAIARRLKPFGVQRF  
LYTGRQPRPEEAQAEFVSTPELAAQSDFIVVACSLTPATEGLCNKDFQKMKETAVF  
INISRGDVVNQDDLYQALASGKIAAAGLDVTSPEPLPTNHPLLTLKNCVILPHIGSATHR  
TRNTMSLLAANNLLAGLRGEPMPSELKL

>sp|P42263|GRIA3\_HUMAN Glutamate receptor 3 OS=Homo sapiens GN=GRIA3 PE=1 SV=2

MARQKKMGQSVLRAVFFLVGLLGHSHGGFPNTISIGGLFMRNTVQEHSARFAVQLYNT  
NQNTTEKPFHLNYHVDHLDSSNSFSVTNAFCSQFSRGVYAI FGFDQMSMNTLTSFCGAL  
HTSFVTPSFPTDADVQFVIQMRPALKGAILSLLGHYKWEKFVYLYDTERGFSILQAIMEA  
AVQNNWQVTARSVGNIKDVQEFRRIIEEMDRRQEKRYLIDCEVERINTILEQVVILGKHS  
RGYHYMLANLGFTDILLERVMHGGANITGFQIVNNENPMVQQFIQRWVRLDEREFPEAKN  
APLKYTSALTHDAILVIAEAFRYLRRQRVDVSRRGSAGDCLANPAVPWSQGIDIERALKM  
VQVQGMTGNIQFDTYGRRTNYTIDVYEMKVSGSRKAGYWNEYERFVPFSDQQISNDSASS  
ENRTIVVTTILESPYVMYKKNHEQLEGNERYEGYCVDLAYEIAKHVRIKYKLSIVGDGKY  
GARDPETKIWNMGV GELVYGRADIAVAPLTITLVREEVIDFSKPFMSLGISIMIKKPQS  
KPGVFSFLDPLAYEIIWMCIVFAYIGVSVVLFLVSRFSPYEWLEDNNEEPRDPQSPDPP  
NEFGIFNSLWFSLGAFMQQGCDISPRSLSGRIVGGVWWFFTLIIISSYTANLAAFLTVER  
MVSPIESAEDLAKQTEIAYGTLDSGSTKEFFRRSKIAYYEKMWSYMKSAEPSVFTKTTAD  
GVARVRKSKGKFAFLLESTMNEYIEQRKPCDTMKVGGNLD SKGYGVATPKGSALRNAVNL  
AVLKLNEQGLLDKLNKWWYDKGECGSGGDSKD KTSALSLSNVAGVFYILVGGLGLAMM

VALIEFCYKSRAESKRMKLTkntQNFkPAPATNTQNYATYREGYNVYGTESVKI

>sp|Q9ULK0|GRID1\_HUMAN Glutamate receptor ionotropic, delta-1 OS=Homo sapiens GN=GRID1  
PE=2 SV=2

MEALTLWLLPWICQCVSVRADSIIHIGAIFEENAAKDDRVFQLAVSDLSLNDLILQSEKI  
TYSIKVIEANNPFQAVQEACDLMTQGILALVTSTGCASANALQSLTDAMHIPHLFVQRNP  
GGSPRTACHLNPSPDGEAYTLASRPPVRLNDVMLRLVTELRWQKFVMFYDSEYDIRGLQS  
FLDQASRLGLDVSLQKVDKNISHVFTSLFTTMKTEELNRYRDTLRRAILLLSPQGAHSFI  
NEAVETNLASKDSHWVFVNEEISDPEILDLVHSALGRMTVVRQIFPSAKDNQKCTRNNHR  
ISSLLCDPQEGYLQMLQISNLYLYDSVLMLANAFHRKLEDRKWHSMASLNCIRKSTKPWN  
GGRSMLDTIKKGHITGLTGVMEFREDSSNPYVQFEILGTTYSETFGKDMRKLATWDSEKG  
LNGSLQERPMGSRQLGLTLKVTVLEEPFVMVAENILGQPKRYKGFSIDVLDALAKALGF  
KYEIYQAPDGRYGHQLHNTSWNGMIGELISKRADLAISAITITPERESVVDfskryMDYS  
VGILIKKPEEKISIFSLFAPFDFAVWACIAAAIPVVGVLIFVLNRIQAVRAQSAAQPRPS  
ASATLHSAIWIVYGAFVQGGESSVNSMAMRIVMGSWWLF TLIVCSSYTANLAAFLTVSR  
MDNP IRTFQDL SKQVEMSYGTVRDSAVYEYFRAKGTNPLEQDSTFAELWRTISKNGGADN  
CVSSPSEGIRKAKKGNyAFLWDVAVVEYAALTD DDCSVTVIGNSISSKGYGIALQHGPSY  
RDLFSQRILELQDTGDLVLKQKWWPHMGRCDLTSHASAQADGKSLKLHSFAGVFCILAI  
GLLLACLVALELWWSNRCHQETPKEDKEVNLEQVHRRMNSLMDEDIAHKQISPASIEL  
SALEMGLAPTQTLEPTREYQNTQLSVSTFLPEQSSHGTSRTLSSGPSSNLPLPLSSSAT  
MPSMQCKHRSPNGGLFRQSPVKTPIPMSFQVPVGGVLPEALDTSHGTSI

>sp|043424|GRID2\_HUMAN Glutamate receptor ionotropic, delta-2 OS=Homo sapiens GN=GRID2  
PE=1 SV=2

MEVFPFLVLVSVWWSRTWDSANADSIIHIGAIFDESAKKDDEVFRTAVGDLNQNEEILQT  
EKITFSVTFVDGNNPFQAVQEACELMNQGILALVSSIGCTSAGSLQSLADAMHIPHLFIQ  
RSTAGTPRSGCGLTRSNRNDYTL SVRPPVYLHDVILRVVTEYAWQKFIIFYDSEYDIRG  
IQEFLDKVSQQGMDVALQKVENNINKMITTLFDTMRIEELNRYRDTLRRAILVMNPATAK  
SFITEVVETNLVAFDCHWIIINEEINDVDVQELVRRSIGRLTIIRQTFPVPQNISQRCFR  
GNHRISSTLCDPKDPFAQNMEISNLYIYDTVLLANAFHKLEDRKWHSMASLSCIRKNS  
KPWQGGRSMLETIKKGGVSGLTGELEFGENGGNPNVHFEILGTNYGEELGRGVRKLGAWN  
PVTGLNGSLTDKKLENNMRGVVLRVTVLEEPFVMVSENVLGKPKKYQGFSIDVLDALSN  
YLGFNYEIYVAPDHKYGSPQEDGTWNGLVGELVFKRADIGISALTITPDRENVVDFTRY  
MDYSGVGLLRRAEKTVDMAFLAPFDLSLWACIAGTVLLVGLLVYLLNWLNPRLQMGS  
TSTTLYNMWFVYGSFVQGGGEVPTTLATRMMGAWWLFALIVISSYTANLAAFLTITR  
IESSIQLQDLSKQTEIPYGTVLDSAVYEHVRMKGLNPFERDSMYSQMWRMINRSNGSEN  
NVLESQAGIQKVYGNyAFVWDAAVLEYVAINDPDCSFYTIGNTVADRGYGIALQHGPSY  
RDVFSQRILELQQNGDMDILKHKWWPKNGQCDLYSSVDTKQKGGALDIKSFAGVFCILAA  
GIVLSCFIAMLETWWNKRKGSRVPSKEDDKEIDLEHLHRRVNSLCTDDDSPHKQFSTSSI  
DLTPLDIDTLPTRQALEQISDFRNTHITTTTFIPEQIQTL SRTLSAKAASGFTFGNVPEH  
RTGPFRHRAPNGGFRSPIKTMSSIPYQPTPTLGLNLGNDPDRGTSI

>sp|Q13003|GRIK3\_HUMAN Glutamate receptor ionotropic, kainate 3 OS=Homo sapiens GN=GRIK3  
PE=2 SV=3

MTAPWRRRLSLVWEYWAGLLVCAFWIPDSRGMPHVIRIGGIFEYADGPNAQVMNAEEHAF  
RFSANIINRNRTLLPNTTLTYDIQRIHFHDSFEATKKACDQLALGVVAIFGPSQGSCTNA  
VQSICNALEVPHIQLRWKHHPLDNKDTFYVNLYPDYASLSHAILDLVQYLKWR SATVVYD

DSTGLIRLQELIMAPSRYNIRLKIRQLPIDSDSRPLLKEMKRGREFRIIFDCSHTMAAQ  
ILKQAMAMGMMTEYYHFIFTTLDLYALDLEPYRSGVNLTGFRILNVDNPHVSAIVEKWS  
MERLQAAPRSESGLLDGVMMTDAALLYDAVHIVSVCYQRAPQMTVNSLQCHRHKAWRFGG  
RFMNFIEKAQWEGLTGRIVFNKTSGLRTDFLDIIISLKEDGLEKVGWVSPADGLNITEVA  
KGRGPNVTDSLTNRSLIVTTVLEEPFVMFRKSDRTLYGNDRFEGYCIDLLKELAHILGFS  
YEIRLVEDGKYGAQDDKGQWNGMVKELIDHKADLAVAPLTITHVREKAIDFSKPFMTLGV  
SILYRKPNGTNPSVFSFLNPLSPDIWMYVLLAYLGVSCVLFVIARFSPYEWYDAHPCNPG  
SEVENNFLLNSFWFGMSLMQQGSELMPKALSTRIIGGIWWFFTLIIISSYTANLAAF  
LTVERMESPIDSADDLAKQTKIEYGAVKDGTMTFFKSKISTFEKMWAFMSSKPSALVK  
NNEEGIQRALADYALLMESTTIEYVTQRNCNLQIGGLIDSKGYGIGTPMGSPYRDKIT  
IAILQLQEEDKLHIMKEKWRRSGCPEEENKEASALGIQKIGGIFIVLAAGLVLSVLVAV  
GEFVYKLRKTAEREQRSFCSTVADEIRFSLTCQRRVKHKPQPPMMVKTDAVINMHTFNDR  
RLPGKDSMACSTSLAPVFP

>sp|Q16099|GRIK4\_HUMAN Glutamate receptor ionotropic, kainate 4 OS=Homo sapiens GN=GRIK4  
PE=2 SV=2

MPRVSAPLVLLPAWLMVACSPHSLRIAAILDDPMECSRGERLSITLAKNRINRAPERLG  
KAKVEVDIFELLRDSEYETAETMCQILPKGVAVLGPSSSPASSSIISNICGEKEVPHFK  
VAPEEFVKFQFQRFITLNLHPSNTDISVAVAGILNFFNCTTACLICAKAECLLNLEKLLR  
QFLISKDTLSVRMLDDTRDPTPLLKEIRDDKTATIIIHANASMSHTILLKAAELGMVSAY  
YTYIFTNLEFSLQRMDSLVDDRNVILGFSIFNQSHAFFQEFAQSLNQSWQENC DHVPFTG  
PALSSALLFDVAVVAVTAVQELNRSQEIGVKPLSCGSAQIWQHGTSMLNYLRMVELEGLT  
GHIEFNKSGQRSNYALKILQFTRNGFRQIGQWHVAEGLSMDSHLYASNISDTLFNTTLVV  
TTILENPYMLKGHNHEMEGNDRYEGFCVDMLKELAEILRFNYKIRLVGDGVYGVPEANG  
TWTGMVGELIARKADLAVAGLTITAEREKVIDFSKPFMTLGISILYRVHMGRKPGYFSFL  
DPFSPGVWLFMLLAYLAVSCVLFVLARLTPYEWYSPHPCAQGRCNLLVNQYSLGNSLWFP  
VGGFMQQGSTIAPRALSTRCVSGVWVAFTLIIISSYTANLAAFLTVQRMDVPIESVDDLA  
DQTAIEYGTIHGSSMTFFQNSRYQTYQRMWNYMYSKQPSVFKSTEEGIARVLNSNYAF  
LLESTMNEYRQRNCNLQIGGLLDTKGYGIGMPVGSVFRDEFDLAILQLQENNRLEILK  
RKWWEKGKCPKEEDHRAKGLGMENIGGIFVVLICGLIVAIFMAMLEFLWTLRHSEATEVS  
VCQEMVTELRSIILCQDSIHPRRRRAAVPPPRPIPEERRPRGTATLSNGKLCGAGEPDQ  
LAQRLAQEAALVARGCTHIRVCEPERRFQGLRARSPARSEESLEWEKTTNSSEPE

>sp|Q16478|GRIK5\_HUMAN Glutamate receptor ionotropic, kainate 5 OS=Homo sapiens GN=GRIK5  
PE=2 SV=2

MPAELLLLLIVAFASPSCQVLSSLRMAAILDDQTVCGRGERLALALAREQINGIIEVPAK  
ARVEVDIFELQRDSQYETTDTCQILPKGVSVLGPSSSPASASTVSHICGEKEIPHIKV  
GPEETPRLQYLRFASVSLYPSNEDVSLAVSRILKSFNYPASLICAKAECLLRLEELVRG  
FLISKETLSVRMLDDSRDPTPLLKEIRDDKVSTIIDANASISHLILRKASELGMTSAFY  
KYILTTMDFPILHLDGIVEDSSNILGFSMFNTSHPFYPEFVRSNMSWRENCEASTYLG  
ALSAALMFDAVHVVS AVRELNRSQEIGVKPLACTSANIWPHTSLMNYLRMVEYDGLTG  
RVEFNKSGQRTNYTLRILEKSRQGHREIGVWYSNRTLAMNATTLIDINLSQTLANKTLVVT  
TILENPYVMRRPNFQALSGNERFEGFCVDMLRELAELLRFYRLRLVEDGLYGAPEPNGS  
WTGMVGELINRKADLAVAAFTITAEREKVIDFSKPFMTLGISILYRVHMGRKPGYFSFLD  
PFSPAVWLFMLLAYLAVSCVLFLLARLSPYEWYNPHPCLRARPHILENQYTLGNSLWFPV  
GGFMQQGSEIMPRALSTRCVSGVWVAFTLIIISSYTANLAAFLTVQRMEVPVESADDLAD

QTNIEYGTIHAGSTMTFFQNSRYQTYQRMWNYMQSKQPSVFKSTEEGIARVLNSRYAFL  
LESTMNEYHRRNLNCLTQIGGLDTKGYGIGMPLGSPFRDEITLAILQLQENNRLEILKR  
KWWEGGRCPKEEDHRAKGLGMENIGGIFIVLICGLIIAVFVAVMEFIWSTRRSAESEEVS  
VCQEMLQELRHAVSCRKTSRSGRRRRPGGPSRALLSLRAVREMRLSNGKLYSAGAGGDAG  
SAHGGPQRLDDPGPPSGARPAATPCTHVRVCQECRRIQALRASGAGAPPRGLGVPAEA  
TSPPRPRPGPAGPRELAEHE

>sp|P32298|GRK4\_HUMAN G protein-coupled receptor kinase 4 OS=Homo sapiens GN=GRK4 PE=1  
SV=3

MELNIVANSLLKARQGGYGKKSGRSCKWKEILTLPPVSCSELRHSIEKDYSSLCDKQ  
PIGRRLFRQFCDTKPTLKRHIEFLDAVAEYEVADDEDRSDCGLSILDRFFNDKLAAPLPE  
IPPDVVTCERLGLKEENPSKKAFFEETRAHNYLRGEPFEEYQESSYFSQFLQWKWLERQ  
PVTKNTRFRHYRVLGKGGFGEVCACQVRATGKMYACKKLQKKRIKKRGEAMALNEKRILE  
KVQSRFVVSLAYAYETKDALCLVLTIMNGGDLKFHIYNLGNPGFDEQRAVFYAAELCCGL  
EDLQRERIVYRDLKPENILLDDRGHIRISDLGLATEIPEGQVRGRVGTVGYMAPEVVNN  
EKYTFSPDWWGLGLIYEMIQGHSPFKYKEKVKWEEVDQRIKNDTEEYSEKFSEDAISI  
CRMILLTKNPSKRLGCRGEGAAGVKQHPVFKDINFRLEANMLEPPFCDPHAVYCKDVLD  
IEQFSVVKGIYLDTADEDFYARFATGCVSIPWQNMIESGCFKDINKSESEEALPLDLDK  
NIHTPVS RPNRGFFYRLFRRGGCLTMVPSEKEVEPKQC

>sp|Q8IYS0|GRM1C\_HUMAN GRAM domain-containing protein 1C OS=Homo sapiens GN=GRAMD1C PE=1  
SV=2

MEGAPTVRQVMNEGSSLATDLQEDVEENPSPTVEENN VVKKGPNLHNWSGDWSFWIS  
SSTYKDRNEEYRRQFTHLPDTERLIADYACALQRDILLQGRLYLSENWLCFYSNIFRWET  
TISIALKNITFMTKEKTARLIPNAIQIVTESEKFFFTSFGARDRSYLSIFRLWQNVLLDK  
SLTRQEFWQLLQQNYGTELGLNAEEMENLSLSIEDVQPRSPGRSSLDDSGERDEKLSKSI  
SFTSEISIRVSETESFDGNSSKGLGKEESQNEKQTKKSLPTLEKKLTRVPSKSLDLNK  
NEYLSLDKSSSDSVDEENVPEKDLHGRLFINRIFHISADRMFELLFTSSRFMQKFASSR  
NIIDVVSTPWTAE LGGDQLRTMTYITVLNSPLTGKCTAATEKQTLYKESREARFYLDSE  
VLTHDVPYHDYFYTVNRYCIIRSSKQKCRLRVSTD LKYRKQPWGLVKS LIEKNSSWSSLED  
YFKQLES DLLIEESVLNQAIEDPGKLTGLRRRRRTFNRTAETVPKLSSQHSSGDVGLGAK  
GDITGKKKEMENYNVTLIVVMSIFVLLLVLNVTLFLKLSKIEHAAQSFYRLRLQEEKSL  
NLASDMVSRAETIQKNKDQAHRLKGVLRDSIVMLEQLKSSLIMLQKTFDLLNKNTGMAV  
ES

>sp|Q13255|GRM1\_HUMAN Metabotropic glutamate receptor 1 OS=Homo sapiens GN=GRM1 PE=1 SV=3

MVGLLLFFFP AIFLEVSLPRSPGRKVLLAGASSQRSVARMDGDV IIGALFSVHHQPPAE  
KVPERKCGEIREQYGIQRVEAMFHTLDKINADPVLLPNITLGSEIRDSCWHSSVALEQSI  
EFIRDSLISIRDEKDGINRCLPDGQSLPPGRTKKPIAGVIGPGSSVAIQVQNLLQLFDI  
PQIAYSATSIDLSKTLYKYFLRVVPSDTLQARAMLDIVKRYNWTYVS AVHTEGNYGESG  
MDAFKELAAQEGLCIAHSDKIYSNAGEKSFDRLLRKL RERLPKARVVVCFCEGMTVRGLL  
SAMRRLGVVGEFSLIGSDGWADRDEVI EGYEVEANGGITIKLQSPEVRSFDDYFLKLRLD  
TNTRNPWFPEFWQHRFQCRLPGHLLNPNFKRICTGNESLEENYVQDSKMGFVINAIYAM  
AHGLQNMHHALCPGHVGLCDAMKPIDGSKLLDFLIKSSFIGVSGEEVWFDEKGDAPGRYD  
IMNLQYTEANRYDYVHVG TWHEGVLNIDDYKIQMNKSGVVR SVCSEPCLKGQIKVIRKGE  
VSCCWICTACKENEYVQDEFTCKACDLGWPNADLTGCEPIPVRYLEWSNIESIIAIAFS  
CLGILVTLFVTLIFVLYRDTPVVKSSSREL CYIILAGIFLGYVCPFTLIAKPTTSCYLQ

RLLVGLSSAMCYSALVTKTNRIARILAGSKKKICTRKPRFMSAWAQVIIASILISVQLTL  
VVTLIIMEPPMILSYPSIKEVYLICNTSNLGVVAPLGYNGLLIMSCTYYAFKTRNVPAN  
FNEAKYIAFTMYTTCIIWLAFLVPIYFGSNYKIITTCFAVSLSVTVALGCMFTPKMYIIIA  
KPERNVRSFTTSDVVRMHVGDGKLPCRSTFLNIFRRKKAGAGNANSNGKSVSWSEPGG  
GQVPKGQHMWHRLSVHVKTNETACNQTAVIKPLTKSYQGSKSLTFSDTSTKTLYNVEEE  
EDAQPIRFSPGSPSMVVHRRVPSAATTPPLPSHLTAEETPLFLAEPALPKGLPPPLQQQ  
QQPPPQQKSLMDQLQGVVSNFSTAIPDFHAVLAGPGGPGNGLRSLYPPPPPPQHLQMLPL  
QLSTFGEELVSPADDDDDSERFKLLQEYVYEHEREGNTDEDELEEEEDLQAASKLTPD  
DSPALTPPSPFRDSVASGSSVPSPVSESVLCTPPNVSYASVILRDYKQSSSTL

>sp|Q14416|GRM2\_HUMAN Metabotropic glutamate receptor 2 OS=Homo sapiens GN=GRM2 PE=1 SV=2

MGSLALLALLLLWGAVAEGPAKKVLTEGLDLVLGGLFPVHQKGGPAEDCGPVNEHRGIQ  
RLEAMLFALDRINRDPHLLPGVRLGAHILDSCSKDTHALEQALDFVRASLSRGADGSRHI  
CPDGSYATHGDAPTAITGVIGGSYSDVSIQVANLLRLFQIPQISYASTSAKLSDKSRYDY  
FARTVPPDFQAKAMAEILRFFNWTYVSTVASEGDYGETGIEAFELEARARNICVATSEK  
VGRAMSRAAFEGVVRALLQKPSARVAVLFRSEDARELLAASQRLNASFTWVASDGGWAL  
ESVAGSEGAEGAITIELASYPISDFASYFQSLDPWNNSRNPWFREFWEQRFRCSEFRQR  
DCAHSLRAVPFEQESKIMFVVNAVYAMAHALHNMHRALCPNTTRLCDAMRPVNGRRLYK  
DFVLNVKFDAPFRPADTHNEVRFDRFGDIGRYNIFTYLRAGSGRYRYQKVGWAEGLTL  
DTSLIPWASPSAGPLPASRCSEPCLQNEVKSVPGEVCCWLCIPCQPYEYRLDEFTCADC  
GLGYWPNASLTGCFELPQEYIRWGDAAWVGPTIACLGALATLFLVGVFVRHNATPVVKA  
SGRELCYILLGGVFLCYMTFIFIAKPSTAVCTLRRLGLGTAFSVCYSALLTKTNRIARI  
FGGAREGAQRPRFISPASQVAICLALISGQLLIVVAWLVEAPGTGKETAPERREVVTLR  
CNHRDASMLGSLAYNVLLIALCTLYAFKTRKCPENFNEAKFIGFTMYTTCIIWLAFLPIF  
YVTSSDYRVQTTTMCVSVSLSGSVVLGCLFAPKLHIILFQPQKNVVSRAPTSFRGSAAA  
RASSSLGQGSQSQFVPTVCNGREVVDSTTSSL

>sp|Q14832|GRM3\_HUMAN Metabotropic glutamate receptor 3 OS=Homo sapiens GN=GRM3 PE=1 SV=2

MKMLTRLQVLTALFSGKFLSLGDHNLRRREIKIEGDLVLGGLFPINEKGTGTEECGRI  
NEDRGIQRLEAMLFIDEINKDDYLLPGVKLGVHILDTCSRDTYALEQSLEFVRASLTKV  
DEAEYMCPDGSYAIQENIPLLIAGVIGGSYSSVSIQVANLLRLFQIPQISYASTSAKLS  
KSRYDYFARTVPPDFYQAKAMAEILRFFNWTYVSTVASEGDYGETGIEAFEQEARLNIC  
IATAEKVGRSNIRKSYDSVIRELLQKPNARVVVLFMRSDSRELIAAASRANASFTWVAS  
DGWGAQESIIGKSEHVAYGAITLELASQPVRQFDRYFQSLNPYNHRNPWFRDFWEQKFQ  
CSLQNKRNHRRVCDKHLAIDSSNYEQESKIMFVVNAVYAMAHALHKMQRSLCPNTTKLCD  
AMKILDGKKLYKDYLLKINFAPFNPNDADSIKFDFTFGDMGRYNVFNQNVGGKYSY  
LKVGHWAETLSLDVNSIHWSRNSVPTSQCSDPCAPNEMKNMQPGDVCCWICIPCPEYEL  
ADEFTCMDGSGQWPTADLTGCYDLPEDYIRWEDAWAIGPVTIACLGFMCTCMVTVFIK  
HNNTPLVKASGRELCYILLFGVLSYCMTFFFIAKPSVICALRRLGLGSSFAICYSALL  
TKTNCIARIFDGVKNGAQRPKFISPSSQVFICLGLILVQIVMVS VWLILEAPGTRRYTLA  
EKRETVILKCNVKDSMILISLTYDVLVILCTVYAFKTRKCPENFNEAKFIGFTMYTTCI  
IWLAFPLPIFYVTSSDYRVQTTTMCISVSLSGFVVLGCLFAPKVHIILFQPQKNVVTHRLH  
LNRFSVSGTGTTYSQSSASTYVPTVCNGREVLDTTSSL

>sp|Q14833|GRM4\_HUMAN Metabotropic glutamate receptor 4 OS=Homo sapiens GN=GRM4 PE=2 SV=1

MPGKRGLGWWWARLPCLLLSLYGPWMPSSLGKPKGHPHMNSIRIDGDITLGGFLPVHGR  
GSEKPCGELKKEKGIHRLEAMLFALDRINNDPDLNITLGARILDTCRSDTHALEQSL

TFVQALIEKDGTEVRCGSGGPPIITKPERVVGIVIGASGSSVSIMVANILRLFKIPQISYA  
STAPDLSDNSRYDFFSRVVPSTYQAQAMVDIVRALKWNVYSTVASEGSYGESGVEAFIQ  
KSREDGGVCIAQSVKIPREPKAGEFDKIIRLLETSNARAVIIFANEDDIRRVLEAARRA  
NQTGHFFWMGSDSWGSKIAPVLHLEEVAEGAVTILPKRMSVRGFDYFSSRTLNNRRNI  
WFAEFWEDNFHCKLSRHALKKGSHVKKCTNRERIGQDSAYEQEGKVQFVIDAVYAMGHAL  
HAMHRDLCPGRVGLCPRMDDPVDGTQLLKYIRNVNFGSIAGNPVTFNENGDAPEGRIYQY  
QLRNSAEYKIVIGSWTDHLHLRIERMHWPGSGGQLPRSLPCQGERKKTVMGMPCCW  
HCEPCTGYQYQVDYRTCKTCPYDMRPTENRTGCRPIPIIKLEWGSPPWAVLPLFLAVVGLA  
ATLFFVITFVRYNDTPIVKASGRELSYVLLAGIFLCYATTFMLIAEPDLGTCSLRRIFLG  
LGMSISYAALLTKTNRIYRIFEQGKRSVSAPRFISPASQLAITFSLISLQLLGICVWFV  
DPSHSVDFDQDRTLDPRFARGVLKCDISDLSLICLLGYSMMLMTCTVYAIKTRGVPET  
FNEAKPIGFTMYTTCIVWLAFIPIFFGTSSQADKLYIQTTTLTVSVLSASVSLGMLYMP  
KVYIILFHPEQNVPKRKRSLKAVVTAATMSNKFTQKGNFRPNGEAKSELCELEAPALAT  
KQTYVTYTNHAI

>sp|Q14831|GRM7\_HUMAN Metabotropic glutamate receptor 7 OS=Homo sapiens GN=GRM7 PE=1 SV=1

MVQLRKLLRVLTLMKFPCCVLEVLLCALAAAARGQEMYAPHISIRIEGDVTLGGLFPVHAK  
GPSGVP CGDIKRENGIHRLEAMLYALDQINSDPNLLPNVTLGARILDTCSDRTYALEQSL  
TFVQALIQKDTSDVRCNTGEPPVFKPEKVVGVIGASGSSVSIMVANILRLFKIPQISYA  
STAPELSDRRYDFFSRVPPDSFQAQAMVDIVKALGWNVSTLASEGSYGEKGVESFTQ  
ISKEAGGLCIAQSVRIPQERKDRTIDFDRIKQLLDTNPSRAVVIFANEDIKQILAAK  
RADQVGHFLWVGSDSWGSKINPLHQHEDIAEGAITIQPKRATVEGFDAYFTSRTLENNR  
NVWFAEYWEENFNCKLTISGSKKEDTDRKCTGQERIGKDSNYEQEGKVQFVIDAVYAMAH  
ALHMHMKDLCADYRGVCPMEQAGGKLLKYIRNVNFGSAGTPVMFNKNGDAPEGRIYQY  
QYQTTNTSNPGYRLIGQWTDQLNIEDMQWGKGVREIPASVCTLPCKPGQRKKTQKGT  
CCWTCEPCDGYQYQFDEMTQHCYPDQRPENRTGCQDIPPIIKLEWHSPWAVIPVFLAML  
GIIATIFVMTAFIRYNDTPIVRASGRELSYVLLTGIFLCYITFLMIAKPDVAVCSFRRV  
FLGLGMCISYAALLTKTNRIYRIFEQGKKSVTAPRLISPTSQLAITSSLISVQLLGVFIW  
FGVDPPNIIIDYDEHKTMPNQARGVLKCDITDLQIICSLGYSILLMTCTVYAIKTRGV  
PENFNEAKPIGFTMYTTCIVWLAFIPIFFGTAQSAEKLYIQTTTLTISMNLSASVALGML  
YMPKVYIIFHPELVNQKRKRSLKAVVTAATMSSRLSHKPSDRPNGEAKTELCENVDPNS  
PAAKKKYVSYNNLVI

>sp|000222|GRM8\_HUMAN Metabotropic glutamate receptor 8 OS=Homo sapiens GN=GRM8 PE=2 SV=2

MVCEGKRSASCPCFLLTAKFYWILTMMQRTHSQEYAHSIRVDGDIILGGLFPVHAKGER  
GVPCGELKKEGHIHRLEAMLYAIDQINKDPDLLSNITLGVRILDTCSRDTYALEQSLTFV  
QALIEKDASDVKANGDPPIFTKPKISGVIGAAASSVSIMVANILRLFKIPQISYASTA  
PELSDNTRYDFFSRVPPDSYQAQAMVDIVTALGWNVSTLASEGNYGESGVEAFTQISR  
EIGGVCIAQSQKIPREPRGFEFEKIIRLLETPNARAVIMFANEDDIRRILEAAKLNQS  
GHFLWIGSDSWGSKIAPVYQEEIEAEGAVTILPKRASIDGFDYFRSRTLANNRRNVWFA  
EFWEENFGCKLGSHGKRNSHIKCTGLERIARDSSYEQEGKVQFVIDAVYSMAYALHNMH  
KDLCPGYIGLCPRMSTIDGKELLYIRAVNFGSAGTPVTFNENGDAPEGRIYQYQITN  
KSTEYKVIHWTNQLHLKVEDMQWAHREHTHPASVCSLPCKPGERKKTVMGVPCCWHCER  
CEGNYQVDELSCELCPLDQRPNMNRTGCQLIPIIKLEWHSPWAVVPVFVAILGIIATTF  
VIVTFVRYNDTPIVRASGRELSYVLLTGIFLCYSITFLMIAAPDTIICSFRRVFLGLGMC  
FSYAALLTKTNRIHRIFEQGKKSVTAPKFISPASQLVITFSLISVQLLGVFVWFVVDPPH



IIIDYGEQRTLDPEKARGVLKCDISDLSLICSLGYSILLMTCTVYAIKTRGVPETFNEA  
KPIGFTMYTTCTIIWLAFIPIFFGTAQSAEKMYIQTTTLTVSMSLSASVSLGMLYMPKVYI  
IIFHPEQNVQKRKRSFKAVVTAATMQSKLIQKGNDRPNGEVKSELCELETNTSSTKTTY  
ISYSNHSI

>sp|P10070|GLI2\_HUMAN Zinc finger protein GLI2 OS=Homo sapiens GN=GLI2 PE=1 SV=4

METSASATASEKQEA KSGILEAAGFPDPGKKASPLVVA AAAAAA VAAQGV PQHLLPPFHA  
PLPIDMRHQEGRYHYEPHSVHG VHGPALSGSPVISDISLIRLSPHPAGPGESPFNAPHP  
YVNPHEHYLRSVHSSPTLSMISAARGLSPADVAQEHLKERGLFGLPAPGTTTPSDYVHQM  
TLVAGHPAPYGDLLMQSGGAASAPHLHDYLNPDVDSRFSSPRVTPRLSRKRALSISPLSD  
ASLDLQRMIRTSPNSLVAYINNSRSSAASGSYGHL SAGALSPAFTFPHPINPVAYQQIL  
SQQRGLGSFAFGHTPPLIQSPSTFLAQQPMALTSINATPTQLSSSSNCLSDTNQNKQSSES  
AVSSTVNPVAIHKRSKVKTEPEGLRPASPLALTQGGVSGHGSCGCALPLSQEQLADLKED  
LDRDDCKQEA EVVIYETNCHWEDCTKEYDTQEQLVHHINNEHIHGEKKEFVCRWQACTRE  
QKPFKAQYMLVVMHRRHTGEKPHKCTFEGCSKAYSRL ENLKTHLRSHTGEKPYVCEHEGC  
NKAFSNASDRAKHQNRTHSNEKPYICKIPGCTKRYTDPSSLRKHVKT VHGPD AHVTKKQR  
NDVHLRTPLLKENG DSEAGTEPGGPESTEASSTSQAVEDCLHVRAIKTESSGLCQSSPGA  
QSSCSSEPSPLGSAPNNDSGVEMPGTGPGSLGDLTALDDTPPGADTSALAAPSAGGLQLR  
KHMTTMHRFEQLKKEKLKSLKDSCSWAGPTPHTRNTKLPLPGSGSILENFSGSGGGGPA  
GLLPNPRLSELSASEVTMLSQ LQERRDSSTSTVSSAYTVSRRSSGISPYFSSRRSSEASP  
LGAGRPHNASSADSYDPIST DASRRSSEASQCSGGSGLLNLTPAQQYSLRAKYAAATGGP  
PPTPLPGLERMSLRTRLALLDAPERTLPAGCPRPLGPRRGSDGPTYGHGHAGAAPAFPHE  
APGGGARRASDPVRRPDALSLPRVQRFHSTHNVPNGPLPPCADRRGLRLQSHPSTDGGLA  
RGAYS PRPPSISENVAMEAVAAGVDGAGPEADLGLPEDDLVLPDDVVQY IKAHASGALDE  
GTGQVYPTTESTGFSDNPRLPSPGLHGRRMVAADSNVGPSAPMLGGCQLGFGAPSSLNKN  
NMPVQWNEVSSGTVDALASQVKPPFPQGNLAVVQQKPAFGQYYPGYSPQGLQASPGGLDS  
TQPHLQPRSGAPSQGI PRVNYMQQLRQPVAGSQCPGMTTMSPHACYGQVHPQLSPSTIS  
GALNQFPQSCSNMPAKPGHLGHPQQTEVAPDPTTMGNRHRELGV PDSALAGVPPHPVQS  
YPQQSHHLAASMSQEGYHQVPSLLPARQPGFM EPQTGPMGVATAGFGLVQPRPPLEPSPT  
GRHRGVRAVQQQLAYARATGHAMAAMPSSQETA EAVPKGAMGNMGSVPPQPPQDAGGAP  
DHSMLYYYGQIHMYEQDGGLENLGSCQVMRSQPPQPQACQDSIQPQLPSPGVNQVSSTV  
DSQLLEAPQIDFDAIMDDGDHSSLFSGALSPSLLHSLSQNSSRLTTPRNSLTLPSIPAGI  
SNMAVGDMSSMLTSLAEESKFLNMMT

>sp|P02724|GLPA\_HUMAN Glycophorin-A OS=Homo sapiens GN=GYP A PE=1 SV=2

MYGKII FVLLSEIVSISASSTTG VAMHTSTSSSVTKSYISSQTNDTHKRD TYAATPRAH  
EVSEISVRTVYPPEETGERVQLAHHFSEPEITLIIFGV MAGVIGTILLISY GIRRLIK  
SPSDVKPLPSPD TDVPLSSVEIENPETS DQ

>sp|Q6ZS86|GLPK5\_HUMAN Putative glycerol kinase 5 OS=Homo sapiens GN=GK5 PE=2 SV=2

MSGLLTDPEQRAQEPRYPGFVLGLDV GSSVIRCHVYDRAARVCGSSVQKVENLYPQIGWV  
EIDPDVLWIQFVAVIKEAVKAAGIQMNQIVGLGISTQRATFITWNKKTGNHFHNFISWQD  
LRAVELVKSNNLSLLMKIFHSSCRVLHFFTRSKRLFTASLFTFTTQQTSLRLVWILQNL  
EVQKAVEEENCCFGTIDTWLLYKLTGKSVYATDFSNASTTGLFDPYKMCWSGMITSLISI  
PLSLLPPVRDTSNHFSGSVDEEIFGVPIPIVALVADQQS AMFGECCFQTGDVKLTMTGTGTF  
LDINTGNSLQQT TGGFYPLIGWKIGQEVVCLAESNAGDTGTAIKWAQQLDLFTDAAETEK  
MAKSLEDESEGVCFVPSFSGLQAPLNDPWACASF MGLKPSTSKYHLVRAILESIAFRNKQL

YEMMKKEIHIPVRKIRADGGVCKNGFVMQMTSDLINENIDRPADIDMSCLGAASLAGLAV  
GFWTDKEELKKLRQSEVVFKPQKKCQEYEMSLENWAKAVKRSMNWNKT

>sp|094925|GLSK\_HUMAN Glutaminase kidney isoform, mitochondrial OS=Homo sapiens GN=GLS  
PE=1 SV=1

MMRLRGSGMLRDLLRSPAGVSATLRRAPLVTLRRPRGGGRPAAGPAAAARLHPWWGG  
GGWPAEPLARGLSSSPSEILQELGKGSTHPQPGVSPPAAPAGPKDGPGETDAFGNSEG  
KELVASGENKIKQGLLSLEDLLFYTTAEGQEKIPVHKFITALKSTGLRTSDPRLKECMD  
MLRLTLQTTSDGVMLDKDLFKKCVQSNIVLLTQAFRRKFVIPDFMSFTSHIDELYESAKK  
QSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL  
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAGAIIVTSLIKQGVNNAEKFDYVMQ  
FLNKMAGNEYVGFNSATFQSERESGDRNFAIGYYLKEKKCFPEGTDVMGILDYFQLCSI  
EVTCESASVMAATLANGGFCPITGERVLSPEAVRNTLSLMHSCGMYDFSGQFAFHVGLPA  
KSGVAGGILLVVPNMGMWCWSPPLDKMGNSVKGIFHCHDLVSLCNFHNNDLNRHFAKKL  
DPRREGGDQRVKSVINLLFAAYTGDSALRRFALSAMDMEQRDYDSRTALHVAAGHVE  
VVKFLLACKVNPFPKDRWNNTPMDEALHFGHHDVFKILQEYQVQYTPQGSDNGKENQT  
VHKNLDGLL

>sp|Q9UI32|GLSL\_HUMAN Glutaminase liver isoform, mitochondrial OS=Homo sapiens GN=GLS2  
PE=1 SV=2

MRSMKALQKALSRAGSHCGRGWGHPSPRSPLLGGGVRHHLSEAAQGRETPHSHQPQHQD  
HDSSSESGMLSRGLDLLFYTTAEGQERIPVHKFTTALKATGLQTSDPRLRDCMSEHRVVQ  
ESSSGLLDRDLFRKCVSSNIVLLTQAFRRKFVIPDFEFTGHVDRIEDVKELTGKVA  
AYIPQLAKSNPDLWGVSLCTVDGQRHSGHTKIPFCLQSCVKPLTYAISISTLGTDYVHK  
FVGKEPSGLRYNKLNLNEEGIPHNPMVNAGAIIVSSLIKMDCNKAEKDFVQLYNKMAG  
NEYMGFSNATFQSEKETGDRNYAIGYYLKEKKCFPKGVDMAALDLYFQLCSVEVTCEG  
SVMAATLANGGICPITGESVLSAEAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSAVSGA  
ILLVVPNMGMCLSPPLDKLGNHSGTSCFCQKLVSLFNHNDLNRHCARKLDPRREGA  
EIRNKTVVNLLFAAYSGDSALRRFALSAMDMEQKDYDSRTALHVAAGHIEVVKFLIE  
ACKVNPFAKDRWGNIPDDAVQFNHLEVVKLLQDYQDSYTLSETQAEAAAEALSKENLES  
MV

>sp|P14314|GLU2B\_HUMAN Glucosidase 2 subunit beta OS=Homo sapiens GN=PRKCSH PE=1 SV=2

MLLPLLLLLPMCWAVEVKRPRGVSNTNHHFYDESKPFTCLDGSATIPFDQVNDYCDCKD  
GSDEPGTAACPNGSFHCTNTGYKPLYIPSNRVNDGVCDCDGTDEYNSGVICENTCKEKG  
RKERESLQQMAEVTREGFRLKKILIEDWKKAREEKQKKLIELQAGKKSLEDQVEMLRTVK  
EEAEKPEREAKQHKLWEEQLAAAKAQEQELAADAFKELDDMDGTVSVELQTHPEL  
DTDGDGALSEAEQALLSGDTQTDATSFYDRVWAAIRDKYRSEALPTDLPAPSAPDLTEP  
KEEQPPVPSSPTEEEEEEEEEEEEEEEEEDSEEAPPPLSPPQPASPAEEDKMPPYD  
EQTQAFIDAAQEARNKFEAAERSLKDMEESIRNLEQEIFSDFGPNGEFAYLYSQCYELTT  
NEYVYRLCPFKLVSKPKLGGSPSTSLGTWGSWIGPDHDKFSAMKYEQGTGCWQGNRSTT  
VRLLCGKETMTSTTEPSRCEYLMELMTAACEPPPEAPTEDDHDEL

>sp|O60234|GMFG\_HUMAN Glia maturation factor gamma OS=Homo sapiens GN=GMFG PE=1 SV=1

MSDSLVCVDPPELTKLRKFRFRKETDNAIIMKVDKDRQMVVLEEEFQNISPEELKME  
LPERQPRFVVYSKYVHDDGRVSYPCLCFIFSSPVGCKPEQQMMYAGSKNRLVQTAEITKV  
FEIRTTDDLTEAWLQEKLSFFR

>sp|P29992|GNAI1\_HUMAN Guanine nucleotide-binding protein subunit alpha-11 OS=Homo sapiens GN=GNAI1 PE=1 SV=2

MTLESMACCLSDDEVKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIKQMR  
IIHGAGYSEEDKRGFTKL VYQNIFTAMQAMIRAMETLKILYKYEQNKANALLIREVDVEK  
VTTFEHQYVSAIKTLWEDPGIQECYDRRREYQLSDSAKYLTLDVDRIATLGYLPTQQDVL  
RVRVPTTGIIIEYPFDLENIIFRMVDVGGQSRERRKWIHCFENVTSIMFLVALSEYDQVLV  
ESDNENRMESKALFRTIITYPWFQNSSVILFLNKKDLLEDKILYSHLVDYFPEFDGPQR  
DAQAAREFILKMFVDLNPDSDKIIYSHFTCATDTENIRFVFAAVKDTILQLNLKEYNLV

>sp|Q03113|GNAI2\_HUMAN Guanine nucleotide-binding protein subunit alpha-12 OS=Homo sapiens GN=GNAI2 PE=1 SV=4

MSGVVRTL SRCLLPAEAGGARERRAGSGARDAEREARRSRDIDALLARERRAVRRLVKI  
LLLGAGESGKSTFLKQMRIIHGREFDQKALLEFRDTIFDNILKGSRLVDARDKLGIPWQ  
YSENEKHGMFLMAFENKAGLPVEPATFQLYVPALSALWRDSGIREAFSRRSEFQLGESVK  
YFLDNLDRI GQLNYFPSKQDILLARKATKGIVEHDFVIKKIPFKMVDVGGQSRQKQWFQ  
CFDGITSILFMVSSSEYDQVLMEDRRTNRLVESMNIFETIVNNKLFFNVSIIILFLNKMDL  
LVEKVKTVSIKKHFPDFRGDPHRLLEDVQRYLVQCFDRKRRNRSKPLFHHFTTAIDTENVR  
FVFHAVKDTILQENLKDIMLQ

>sp|Q96EK6|GNA1\_HUMAN Glucosamine 6-phosphate N-acetyltransferase OS=Homo sapiens GN=GNPNAT1 PE=1 SV=1

MKPDETPMFDPSLLKEVDWSQNTATFSPAISPHTHPGGLVLRPLCTADLNRGFFKVLGQL  
TETGVVSPEQFMKSFEHMKSGDYVTVVEDVTLGQIVATATLIIHKFIHSCAKRGRVE  
DVVVSDECRGKQLGKLLSTLTLLSKKLNKYKITLECLPQNVGFYKKFGYTVSEENYMC  
RFLK

>sp|P63096|GNAI1\_HUMAN Guanine nucleotide-binding protein G(i) subunit alpha-1 OS=Homo sapiens GN=GNAI1 PE=1 SV=2

MGCTLSAEDKAAVERSKMIDRNLRDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEAG  
YSEEECKQYKAVVYSNTIQSIIAIIIRAMGRKIDFGDSARADDARQLFVLGAAEEGFMT  
AELAGVIKRLWKDSGVQACFNRSREYQLNDSAAYYLNLDRIAQPNYIPTQQDVLTRVK  
TTGIVETHFTFKDLHFKMFDVGGQSRERKKWIHCFEGVTAIIFCVALSDYDLVLAEDEEM  
NRMHESMKLFDSICNNKWFDTDSIIILFLNKKDLFEKIKKSPLTICYPEYAGSNTYEEAA  
AYIQCCQFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVTDVIIKNNLKDCGLF

>sp|P04899|GNAI2\_HUMAN Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Homo sapiens GN=GNAI2 PE=1 SV=3

MGCTVSAEDKAAAERSKMIDKNLRDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEDG  
YSEEECRQYRAVVYSNTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVL  
PDDLSGVIRRLWADHGVQACFGRSREYQLNDSAAYYLNLERIAQSDYIPTQQDVLTRV  
KTTGIVETHFTFKDLHFKMFDVGGQSRERKKWIHCFEGVTAIIFCVALSAYDLVLAEDDEE  
MNRMHESMKLFDSICNNKWFDTDSIIILFLNKKDLFEKITHSPLTICFPEYTGANKYDEA  
ASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVTDVIIKNNLKDCGLF

>sp|P49685|GPR15\_HUMAN G-protein coupled receptor 15 OS=Homo sapiens GN=GPR15 PE=2 SV=1

MDPEETSVYLDYYYATSPNSDIRETHSHVPYTSVFLPVFYTAVFLTGVLGNLVLMGALHF  
KPGSRRLIDIFIINLAASDFIFLVTLPLWVDKEASLGLWRTGSFLCKGSSYMISVNMHCS  
VLLLTCSVDRYLAIVPVS SRKFRRTDCAYVVCASIWFISCLLGLPTLLSRELTLIDDK  
PYCAEKKATPIKLIWSLVALIFTFFVPLLSIVTCYCCIARKLCAHYQQSGKHNNKKLKKSI

KIIFIVAAFLVSWLPFNTFKFLAIVSGLRQEHYLP SAILQLGMEVSGPLAFANSCVNPFIYYIFDSYIRRAIVHCLCPCLKNYDFGSSTETSDSHLTKALSTFIHAEDFARRRRKRSVSL

>sp|A6NFK2|GRCR2\_HUMAN Glutaredoxin domain-containing cysteine-rich protein 2 OS=Homo sapiens GN=GRXCR2 PE=3 SV=1

MEDPEKKLNQKSDGKPRKVRFKISSYSGRVLKQVFEDGQELESPEEYPHSFLQESLETMDGVYGSGEVPRPQMCSPKLTAAQRISVVFREGNAYTLAGGQPRFNDYKANDHKPLPIIDFGKIIITYNNLKIIRTPMDKRDVFRKILQKEEEAEESLMNKEESYGGRDQHDRPLVEAESTLPQNRYTQEGDIPEDSCFHCRCGSGSATCSLCHGSKFSMLANRFKESYRALRCPACNENGLQPCQICNQ

>sp|Q3V6T2|GRDN\_HUMAN Girdin OS=Homo sapiens GN=CCDC88A PE=1 SV=2

MENEIFTPLLEQFMTSPLVTWVKTFGPLAAGNGTNLDEYVALVDGVFLNQVMLQINPKLESQRVNKKVNNASLRMHNLSILVRQIKFYQETLQQLIMMSLPNVLIIIGNPFSEQGTEEVKKLLLLLLGCAVQCQKKEEFIERIQGLDFDTKAAVAHIQEVTHNQENVFDLQWMEVTDMSQEDIEPLLKNMALHLKRLIDERDEHSETIIELSEERDGLHFLPHASSSAQSPCGSPGMKRTESRQHLSELADAKAKIRRLRQEELEEKTEQLLDCKQELEQMEIELKRLQQENMNLLSDARSARMYRDELDALREKAVRVDKLESEVSRYKERLHDIEFYKARVEELKEDNQVLLETKTMLDQLEGRTRASDKLHELEKENLQLKAKLHDMEMERDMDRKKIEELMEENMTLEMAQKQSMDESLHLGWELEQISRTSELSEAPQKSLGHEVNELTSSRLKLEMENQSLTKTVEELRTTVDSVEGNASKILKMEKENQRLSKKVEILENEIVQEKQSLQNCQNLKDLMEKAQLEKTIETLRENSERQIKILEQENEHLNQTVSSLRQRSQISAEARVKDIEKENKILHESIKETSSKLSKIEFEKRQIKKELEHYKEKGERAEELNELHHLEKENELLQKKITNLKITCEKIEALEQENSELERENRKLKKTLDSEKNTLTFQLESLEKENSQLEENLELRRNVESLKCASMKMAQLQLENKELESEKEQLKKGLELLKASFKKTERLEVSYQGLDIENQRLQKTLENSNKKIQQLESELQDLEMENQTLQKNLEELKISSKRLEQLEKENKSLEQETSQLEKDKKQLEKENKRLRQQAIEIKDTTLEENNVKIGNLEKENKTLSEIGIYKESCVRLKELEKENKELVKRATIDIKTLVTLREDLVSEKLTQQMNDLEKLTHELEKIGLNKERLLHDEQSTDDSRYLLESKLESTLKKSLEIKEEKIAALEARLEESTNYNQQLRQELKTVKKNYEALKQRQDEERMVQSSPPISGEDNKWERESQETTRELLKVKDRLIEVERNATLQAEKQALKTQLKQLETQNNNLQAQILALQRQTVSLQEQTTLTQNAKLQVENSTLNSQSTSLMNQNAQLLIQQSSLENE NESVIKEREDLKSLYDSLKDHEKLELLHERQASEYESLSKHGTLKSAHKNLEVEHRDLED RYNQLLKQKGQLEDLEKMLKVEQEKMLENKNHETVAAEYKKLCGENDRLNHTYSQLLKE TEVLQTDHKNLSLLNNSKLEQTRLEAEFSKLKEQYQQLDITSTKLNNQCELLSQLKGNLEEENRHLLDQIQTLMLQNRTLLEQNMESKDLFHVQRQYIDKLNELRRQKEKLEEKIMDQYKFYDPSPPRRRGWNITLMRKLKSKKDINRERQKSLTTPTRSDSSEGFQLPHQDSQDSSVSGSNSLEDGQTLGTTKSSMVALKRLPFLNRNPKDKDKMKACYRRSMMNDLVQSMVLAGQWTGSTENLEVPDDISTGKRRKELGAMAFSTTAINFSTVNSSAGFRSKQLVNNKDTTSFEDISPQGVSDSSTGSRVHASRPASLDSGRTSTSNNSNNASLHEVKAGAVNNQSRPQSHSSGEFSLLDHEAWSSSGSSPIQYLKRQTRSSPVLQHKISETLESRHHKIKTGSPGSEV VTLQQFLEESNKLTSVQIKSSSQENLLDEVMSLSVSSDFLGDKPVSCLARSVSGKTPGDFYDRRTTKPEFLRPGPRKTEDTYFISSAGKPTPGTGKIKLVKESSLRQSKDSNPYATLPRASSVISTAEGTTRRTSIHDFLTKDSRLPISVDSPPAAADSNTTAASNVDKVQESRNSKSRSRREQQSS

>sp|P23416|GLRA2\_HUMAN Glycine receptor subunit alpha-2 OS=Homo sapiens GN=GLRA2 PE=1 SV=1

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RIRPNFKGPPVNVTCNIFINSFGSVTETTM DYRVNIFLRQQWNSRLAYSEYPDDSLDLD  
PSMLDSIWKPD LFFANEKGANFHDVTTDNKLLRISKNGKVLYSIRLTLTLSCPM DLKNFP  
MDVQTCTMQLESFGYTMNDLIFEWLSGDPVQVAEGLTLPQFILKEEKELGYCTKH YNTGK  
FTCIEVKFHLERQMGYYLIQMYIPSL LIVILSWVSFWINMDAAPARVALGITT VLTMTTQ  
SSGSRASLPKVS YVKAIDIWMAVCLLFVFAALLEYAAVNFVSRQHKEFLRLRRRQKRQNK  
EEDVTRESRFNFGYGMGHCLQVKDGTAVKATPANPLPQPPKDGA IKKKFVDRAKRIDT  
ISRAAFPLAFLIFNIFYWITYKIIRHEDVHKK

>sp|075311|GLRA3\_HUMAN Glycine receptor subunit alpha-3 OS=Homo sapiens GN=GLRA3 PE=1 SV=2

MAHVRHFRTLVS GFYFWEAALLSLVATKETDSARSRSAPMSPSDFLDKLMGRTSGYDAR  
IRPNFKGPPVNVTCNIFINSFGSIAETTM DYRVNIFLRQKWNDPRLAYSEYPDDSLDLDP  
SMLDSIWKPD LFFANEKGANFHEVTTDNKLLRIFKNGNVLYSIRLTLTLSCPM DLKNFPM  
DVQTCIMQLESFGYTMNDLIFEWQDEAPVQVAEGLTLPQFLLKEEKDLRYCTKH YNTGKF  
TCIEVRFHLE RQMGYYLIQMYIPSL LIVILSWVSFWINMDAAPARVALGITT VLTMTTQS  
SGSRASLPKVS YVKAIDIWMAVCLLFVFSALLEYAAVNFVSRQHKELLRFRKRKNKTEA  
FALEKFYRFSMDDEVRESRFSFTAYGMGPCLQAKDGMT PKGNHPVQVMPKSPDEM RKV  
FIDRAKKIDTISRACFPLAFLIFNIFYWVIYKILRHEDIHQQQD

>sp|P30968|GNRHR\_HUMAN Gonadotropin-releasing hormone receptor OS=Homo sapiens GN=GNRHR PE=1 SV=1

MANSASPEQNQNHC SAINNSIPLMQGNLPTLTLSGKIRVTVTFFLFLLSATFNASFL LKL  
QKWTQKKEKGKLSRMKLLKHLTLANLLET LIVMPLDGMWNITVQWYAGELLCKVLSYL  
KLFSMYAPAFMMVVISLDRSLAITRPLALKSNSKVGQSMVGLAWILSSVFAGPQLYIFRM  
IHLADSSGQTKVFSQCVTHCSFSQWWHQAFYNFFTFSCLFIIPLFIMLICNAKIIFTLTR  
VLHQDPHELQLNQS KNNIPRARLTKMTVAFATSFTVCWTPYYVLGIWYWFDP EMLNRL  
SDPVNHFFFLFAFLNPCFDPLIYG YFSL

>sp|Q9NYA3|GOG6A\_HUMAN Golgin subfamily A member 6A OS=Homo sapiens GN=GOLGA6A PE=2 SV=3

MWPQPYP LPPHMMLEESRQNKLA AAKKKKEYQQRKSPGIPAGAKTKKKKTDSSPETTS  
GGCHSPGDSQYQELAVALESSVTISQLNENIESLKQKKQVEHQLEEAKKTNNEIHKAQ  
MERLETINILTLEKADLKT TLYHTKRAARHFEEESKDLAGRLQYSLQRIQELERALCAVS  
TQQQEEDRSSSCREAVLQRWLQQT IKERALLNAHVTQVTESLKQVQLERDEYAKHIKGER  
ARWQERMWKMSVEARTLKEEKKRDIHRIQELERSLSELKNQMAEPPSLAPPAVTSVVEQL  
QDEAKHLRQEVEGLEGLQSQVENNQALSLSKEQKQRLQEQEEMLRQEQAQRVREQERL  
CEQNERLREQQKTLQE QGERLRKQEQLRKQEERLRKEEERLQKQEKRLWDQEERLWKKE  
ERLQKQEERLALSQNHKLDQLAEPQCSFEDLNNEKKSALQLEQQVKELQEKLDEEHLEA  
ASHQNQQLETQLSLVALPGEGDGGQHL DSEEEEAPRPTPNIPEDLESREATSSFMDLPKE  
KADGTEQVERRELGFVQPSGVT DGMRESFTVYESQGAVPNTRHQEMEDVIRLAQKEEEMK  
VKLLELQELVLPVGNHEGHGKFLIAAQNP ADEPTPGAPAPQELGAAGEQDV FYEVS LDN  
NVEPAPGAAREGSPHDNPTVQQIVQLSPVMQDT

>sp|A6NN73|GOG8C\_HUMAN Golgin subfamily A member 8C OS=Homo sapiens GN=GOLGA8CP PE=3 SV=2

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SSSLHAPQSPCQELAVVPDSRSVKVSQLKNTIKSLKQKKQVEHQLEEEKKANNEKQKAE  
RGLEVQIQRLNIQKGKLN TDLYHTKRSLRYFEEESKD LAVRLQHSLQRKGELERALS AVT  
ATQKKKAERFSSRSKARMEWKLEQSMREQALLKAQLTQLKESLKEVQLERDEYAEHLKGE

RARWQQMRKMSQEVCSLKKEKKHDKYRVETLERSLSKLKHQMAEPLPPEPPAVPSEVEL  
QHLRKELERVAGALQAQVEYNQRISLLNEGQKERLREQEERLQEQQERLREQEERLQQLA  
EPQNSFKELNNENKSVLQLEQQVKELQEKLGKRLAHPVASAQAQKEPEAAVPAPGPGGESSG  
FMDHLEEKADLSELVEKEELGFFQYYRERCHQKVYHPITKPGGSAKD AAPGGGHHQAGPG  
QGGDEGEAAGAAGDVAAGGDYKGHSKFLVTAQNPAHEPSPGAPAPQELGAAHKHGDLC  
VSLTDSVEPVQGETREGSPHDKPTAQPIVQDHQEHPLGSNCCVPFFCWA WPPRRRR

>sp|Q08AF8|GOG8F\_HUMAN Putative golgin subfamily A member 8F/8G OS=Homo sapiens GN=GOLGA8F  
PE=5 SV=1

MEWKLEQSMREQALLKAQLTQLKESLKEVQLERDEYAEHLKGERARWQQMRKMSQEVCS  
LKKEKKHDKYRVEKLERLSLSKLKHQMAEPLPPEPPAVPSEVELQHLRKELERVAGELQAQ  
VEYNQRISLLNEGQKERLREQEERLQEQQERLPEQEERLQQLAEPQNSFKELNNENKSVL  
QLEQQVKELQEKLGKERLEAASQQKQQLTAQLSLMALPGEGDGGGHLDESEGEAPRIPS  
IPQDLESREAMSGFMDHLEEKADLSELVEKEELGFFQYYRERCHQKVYHPITKPGGSAKD  
AAPGGGHHQAGPGQGGDEGEAAGAAGDVAAGGDYKGHSKFLVTAQNPAHEPSPGAPAPQ  
ELGAAHKHGDLCVSLTDSVEPVQGEAREGSPHDNPTAQPIVQDHQEHPLGSNCCVPFF  
CWAWLPRRRR

>sp|F8WBI6|GOG8N\_HUMAN Golgin subfamily A member 8N OS=Homo sapiens GN=GOLGA8N PE=3 SV=1

MAEETQHNLAAAKKKLKEYWQKNRPRVPAGVNRNRKTNGSIPETATSGGCQPPGDSATG  
FHREGPTSSATLKDLESPCQERAVVLDSTSVKISRLKNTIKSLKQKKQVEHQLEEEKKA  
NNERQKAERELEVQIQTLIIQKEELNTDLYHMERSLRYFEEESKDLAVRLQHSLQCKGEL  
ESALSAVIATEKKKANQLSSCSKAHTEWELEQSLQDQALLKAQLTQLKESFQQLQLERDE  
CAEHIEGERARWHQRMSKMSQEICTLKKEKQDMRVEELERSLSKLKNQMAEPLPPEPP  
AVPSEVELQHLRKELERVAGELQSQVKNNQHISLLNRRQEERIREQEERLRKQEERLQEQ  
HEKLRQLAKPQSVFEELNNENKSTLQLEQQVKELQEKLGEEHLEAASQQNQQLTAQLSLM  
ALPGEHGGEHLDESEGEAPQMPSPVPEDLESREAMSSFMDHLKEKADLSELVKKQELRF  
IQYWQERCHQKIHLLSEPGGRAKDAALGGGHHQAGAQQGDEGEAAGAAADGIAAYSNN  
NGHRKFLAAAHNSADEPGPGAPAPQELGAADKHGDLREVTLTSSAQGEAREDPLLDKPTA  
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>sp|A6NCC3|GOG8O\_HUMAN Golgin subfamily A member 8O OS=Homo sapiens GN=GOLGA8O PE=1 SV=3

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FHREGPTSSATLKDLESPCQERAVVLDSTSVKISRLKNTIKSLKQKKQVEHQLEEEKKA  
NNERQKAERELEVQIQTLIIQKEELNTDLYHMERSLRYFEEESKDLAVRLQHSLQCKGEL  
ESALSAVIATEKKKANQLSSCSKAHTEWELEQSLQDQALLKAQLTQLKESFQQLQLERDE  
CAEHIEGERARWHQRMSKMSQEICTLKKEKQDMRVEELERSLSKLKNQMAEPLPPEPP  
AVPSEVELQHLRKELERVAGELQSQVKNNQHISLLNRRQEERIREQEERLRKQEERLQEQ  
HEKLRQLAKPQSVFEELNNENKSTLQLEQQVKELQEKLGEEHLEAASQQNQQLTAQLSLM  
ALPGEHGGEHLDESEGEAPRMPSPVPEDPESREAMSSFMDHLKEKADLSELVKKQELRF  
IQYWQERCHQKIHLLSEPGGRAKDAALGGGHHQAGAQQGDEGEAAGAAADGIAAYSNN  
NGHRKFLAAAHNSADEPGPGAPAPQELGAADKHGDLREVTLTSSAQGEAREDPLLDKPTA  
QPIVQDHQEHPLGSNCCVPLFCWAWLPRRRR

>sp|Q14789|GOGBI\_HUMAN Golgin subfamily B member 1 OS=Homo sapiens GN=GOLGB1 PE=1 SV=2

MLSRLSGLANVVLHELSGDDDDTDQNMRAPLDPELHQESDMEFNNTTQEDVQERLAYAEQL  
VVELKDIIRQKDVQLQKDEALQEERKAADNKIKKLKHAKAKLTSLNKYIEEMKAQGGT  
VLPTQPSEEQLSKHDKSSTEEEMEIEKIKHKLQEKEELISTLQAQLTQAQAEQPAQSST

EMEEFVMMKQQLQEKEEFISTLQAQLSQTQAEQAAQQVVREKDARFETQVRLHEDELLQL  
VTQADVETEMQQKLRLVLRKLEEHEESLVGRAQVVDLLQQELTAAEQRNQILSQQLQQME  
AEHNTLRNTVETEREESKILLEKMELEVAERKLSFHNLEEMHLLLEQFEQAGQAQAELE  
SRYSALEQKHKAEMEEKTSHILSLQKTGQELQSACDALKDQNSKLLQDKNEQAVQSAQTI  
QQLEDQLQQKSKEISQFLNRLPLQQHETASQTSFPDVYNEGTQAVTEENIASLQKRVVEL  
ENEKGALLSSIELEELKAENEKLSSQITLLEAQNRTGEADREVSEISIVDIANKRSSSA  
EESGQDVLENTFSQKHKELSVLLEMKEAQEEIAFLKLQLQGKRAEEADHEVLDQKEMKQ  
MEGEGIAPIKMKVFLEDTGQDFPLMPNEESSLPAVEKEQASTEHSRTSEEISLNDAGVE  
LKSTKQDGDKSLSAVPDIGQCHQDELERLKSQILELELNFHKAQEIYEKNLDEKAKEISN  
LNQLIEEFKKNADNNSAFTALSEERDQLLSQVKELSMVTELRAQVKQLEMNLAEERQR  
RLDYESQTAHDNLLTEQIHSLSIEAKSKDVKIEVLQNELDDVQLQFSEQSTLIRSLQSQL  
QNKESVLEGAERVRHISSKVEELSQUALSQKELEITKMDQLLEKKRDVETLQQTIEEKD  
QQVTEISFSMTEKMQVQLNEEKFSLGVEIKTLKEQLNLLSRAEEAKKEQVEEDNEVSSGLK  
QNYDEMSPAGQISKEELQHEFDLLKKENEQRKRKLQAALINRKELLQVSRLEEELANLK  
DESKKEIPLSETERGEVEEDKENKEYSEKCVTSKCQEIEIYLKQTISEKEVELQHIRKDL  
EEKLAAEEQFQALVKQMNQTLQDKTNQIDLLQAEISENQAI IQKLITSNTDASDGSVAL  
VKETVVISPPCTGSSEHWKPELEEKILALEKEKEQLQKKLQEALTSRKAILKKAQEKERH  
LREELKQKDDYNRLQEQQFDEQSKENENIGDQLRQLQIQVRESIDGKLPSTDQQESCSST  
PGLEEPLFKATEQHHTQPVLESNLCPDWPSHSEDASALQGGTSAQIKAQLKEIEAEKVE  
LELKVSTTSELTKKSEEVFQLQEQINKQGLEIESLKTVSHEAEVHAESLQQKLESSQLQ  
IAGLEHLRELQPKLDELQKLISKKEEDVSYLSGQLSEKEAALTKIQTEIEEQEDLIKALH  
TQLEMQAKEHDERIKQLQVELCEMKQKPEEIGEESRAKQIQRKLQAALISRKEALKENK  
SLQEELSLARGTIERLTKSLADVESQVSAQNKEKDTVLRGRLALLQEERDKLITEMDRSLL  
ENQSLSSSCESLKLALGLEGLTEDKEKLVKEIESLKSSKIAESTEWQEKHKELQKEYEILLQ  
SYENVSNEAERIQHVVEAVRQEKQELYGKLRSTEANKKETEKQLQEAQEMEEMKEKMRK  
FAKSKQKQKILELEENDRLRAEVHPAGDTAKECMETLLSSNASMKEELERVKMEYETLSK  
KFQSLMSEKDSLSEEVQDLKHQIEGNVSKQANLEATEKHNDQNTNVEEGTQSIPGETEEQ  
DSLMSMTRPTCESVPSAKSANPAVSKDFSSHDEINNYLQQIDQLKERIAGLEEEKQKNK  
EFSQTLNEKNTLLSQISTKDQELKMLQEEVTKMNLLNQQIQEELSRVTKLKETAEEEEKD  
DLEERLMNQLAELNGSIGNYCQDVTDAQIKNELLESEMKNLKKCVSELEEEKQQLVKEKT  
KVESEIRKEYLEKIQGAQKEPGNKSSELQELLKEKQEVKQLQKDCIRYQEKISALER  
TVKALEFVQTESQKLEITKENLAQAVEHRKKAQAEASFVLLDDTQSEAAARVLADNLK  
LKKELQSNKESVKSQMKQKDEDLERRLEQAEEKHLKEKKNMQEKLDALRREKVHLEETIG  
EIQVTLNKKDKEVQQLQENLDSTVTQLAAFTKSMSSLQDDDRVIDEAKKWERKFSDAIQ  
SKEEIRLKEDNCSVLKDQLRQMSIHMEELKINISRLHDKQIWESKAQTEVQLQKQVCD  
TLQGENKELLSQLEETRHLHYSSQNELAKLESELKSLKDQLTDLSNSLEKCKEQKGNLEG  
IIRQQEADIQNSKFSYEQLETDLQASRELTSRLHEEINMKEQKIIISLLSGKEEAIQVAIA  
ELRQQHDKEIKELENLLSQEEEEINIVLEENKKAVDKTNQLMETLKTIKKENIQKKAQLD  
SFVKSMSSLQNDRRIVGDYQQLEERHLSIILEKDQLIQEAAAENNKLEEIRGLRSHMD  
DLNSENAKLDAELIQYREDLNQVITIKDSQQKQLLEVQLQKNKELENKYAKLEEKLESE  
EANEDLRRSFNALQEEKQDLSKEIESLKVSISQLTRQVTALQEEGTGLGYHAQLKVKEEE  
VHRLSALFSSSQKRIAELEELVCVQKEAAKVGIEDKLLKELKHLHHDAGIMRNETET  
AEERVAELARDLVEMEQKLLMVTENKGLTAQIQSFGSMSSLQNSRDHANEELDELKRK  
YDASLKELAQKQGLLNRRERDALLSETAFSMNSTEENSLSHLEKLNQQLSKDEQLLHL

SSQLEDSYNQVQSFASKAMASLQNERDHLWNELEKFRKSEEGKQRSAAQPSTSPAEVQSLK  
KAMSSLQNDRLKELKNLQQQYLQINQEITELHPLKAQLQEYQDKTKAFQIMQEELRQ  
ENLSWQHQLHQLRMEKSSWEIHERRMKEQYLMAISDKDQQLSHLQNLIRELRSSSSQTQP  
LKVQYQRQASPETSASPDGSQNLVYETELLRTQLNDSLKEIHQKELRIQQLNSNFSQLE  
EKNTLSIQLCDTSQSLRENQQHYGDLNHCALVEKQVQELQAGPLNIDVAPGAPQEKNV  
HRKSDPEELREPQQSFSEAQQQLCNTRQEVNELRKLEERDQQRVAENALSAEEQIRR  
LEHSEWDSRTPIIGSCGTQEALLIDLTSNSCRTRSGVGWKRVLRSLSCHSRTRVPLLA  
AIYFLMIHVLLILCFTGHL

>sp|Q3T8J9|GON4L\_HUMAN GON-4-like protein OS=Homo sapiens GN=GON4L PE=1 SV=1

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VQSLQDAGNQLGMEDTSLSSGMLTQNTNVPILEGVDVAISQGITLPSLESFHPLNIHIGK  
GKLHATGSKRGKMTLRPGPVTQEDRCDHLTLKEPFSGEPSEEVEEGGKPMNSEGEIP  
SLPSGSQSAKPVSQPRKSTQPDVCASPQEKPLRTLHFQPEEEIEDGGFLIPMEEQDNEES  
EKRRKKKKGTKRKRDGRGQEGTLAYDLKLDMLDRTLEDGAKQHNLTA VNVNRLHEVIT  
NEHVAMMKAAISETEDMPMFEPKMTRSKLKEVVEKGVVPTWNI SPIKKANEIKPPQFV  
DIHLEDDSSDEEYQPDDEEEDETAEESSLSDVESTASSPRGAKKSRLRQSSEMTETDE  
ESGILSEAEKVTPPAIRHISAEVPMGPPPPPKPKQTRDSTFMEKLHAVDEELASSPVC  
DSFQPMDDSLIAFRTRSKMPLKDVPGLGLEAELQAPDITPMDYDNTADDEDWKMWLGG  
LNDDVGNEDAEADDDDEYNFLEDLDEPDTEDFRTDRAVRITKKEVNELMEELFETFQDE  
MGFSNMEDDGPEEEECVAEPRPNFNTQALRFEEPLANLLNEQHRTVKELFEQLKMKKSS  
AKQLQEVEKVKPQSEKVVHQLILDPAQRKRLQQQMQLHVQLLTQIHLLATCNPNLNPEAT  
TTRIFLKLGTFAQSSIALHHQYNPKFQTLFQPCNLMGAMQLIEDFSTHVSIDCSPHKTV  
KKTANEFPCLPKQVAWILATSKVMYPELLPVCSLKAKNPQDKIVFKAEDNLLALGLKH  
FEGTEFPNPLISKYLLTCKTAHQTLVRIKLNLMNRAPDNIKFKYKTKQLPVLGKCCEEI  
QPHQWKPPIEREEHRLPFWLKASLPSIQEELRHADGAREVGNMTGTTEINSDRSLEKDN  
LELGSERYPLLLPKGVVLKLPVATRFPRKAWRQKRSSVLKPLLIPSPSLQPSFNPGK  
TPARSTHSEAPPSKMLRIPHPIQPATVLQTVPGVPPLGVSGGESFESPAALPAVPPPEAR  
TSFPLSESQTLSSAPVPKVMPLSLAPSKFRKPYVRRRPSKRRGVKASPCMKPAPV IHHP  
ASVIFTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPITLLVNPTSFPCLNQLSLVA  
SSVSPLIVSGNSVNLPISTPEDKAHVNDIACAVADGENAFQGLEPKLEPQELSPLSAT  
VFPKVEHSPGPPLADAECQEGLSENSACRWTVVKTEEGRALEPLPQGIQESLNNPTPGD  
LEEIVKMEPEEAREEISGSPERDICCDDIKVEHAVELDTGAPSEELSSAGEVTKQTVLQKE  
EERSQPTKTPSSSQEPDEGTSGTDVNGSSKNALSSMDPEVRLSSPPGKPEDSSSVDGQ  
SVGTPVGPETGGEKNGPEEEEEEDFDDLQDEEDEMSSASEESVLSVPELQETMEKLTWL  
ASERRMSQEGESEEENSQEENSEPEEEEEEEAEGMESLQKEDEMTDEAVGDSAEPPTFA  
SPETAPEVETSRTPPGESIKAAGKGRNNHRARNKRGSRARASKDTSKLLLLYDEDILERD  
PLREQKDLAFAQAYLTRVREALQHIPGKYEDFLQVIYEFESSTQRRTAVDLYKSLQILLQ  
DWPQLLKDFAAFLLEPEQALACGLFEEQQAFEKSRKFLRQLEICFAENPSHHQKIIVLQG  
CADCLPQEITELKTQMWQLLKGHDHLQDEFIIFDHLRPAASRMGDFEEINWTEEKEYEF  
DGFEEVALPDVEEEEPPIPTASKNKRKKEIGVQNHDKETEWPDGAKDCASCHEGGPD  
SKLKKSKRRSCSHCSSKVCDSKSYKSKEPHELVGSSPHREASPMPGAKEAGQGKDMMEEE  
APEERESTEATQSRTVRTTRKGEMPVSAGLAVGSTLPSPREVTVTERLLLDGPPPHSPET  
PQFPPTTGAVLYTVKRNQVGPEVRSCPKASPRLQKEREQKAVSESEALMLVWDASETEK  
LPGTVEPPASFLSPVSSKTRDAGRRHVSGKPDQERWLPSSRARVKTRDRTCPVHESPSG



IDTSETSPKAPRGGLAKDSGTQAKGPEGEQQPKAAEATVCANNSKVSSTGEKVVLWTREA  
DRVILTCQEQAQPQTFNIIISQQLGNKTPAEVSHRFRELMQLFHTACEASSEDEDDATS  
TSNADQLSDHGDLLSEEELDE

>sp|Q8IX06|GOR\_HUMAN Putative exonuclease GOR OS=Homo sapiens GN=REX01L1P PE=5 SV=2

MLRATAPCWFPFGYPEAKKVAEEAALEASRHLGGEQSQAGAPEGSKMLRATAPCWFRPGY  
PEAKKVAKEAAPEASRHLGAEQSPAGAPEGSKMLRATAPCWFPFGYPEAKKVAEEAALEA  
PEFPLPSHQPAQSFLWVPQMHKQASAFVDIQAEPQNRGPAVPPAWPKMVTESCYFPAQR  
GSACRLPAAPRLTERPSGVRISAPRKRKTHAHSSSPCLVTGYTDAKRTRVASSSQRSRGS  
KVGRQPGKTRNRSGMACKTTATSSKRIVRRASLPSLSLKKPIILRSSGCQVPTVLRRGY  
LQLFTEECLKFCASKQEAEKALNEEKVAYDCSPNKNRYLNVVLNTLKRLLKGLTPSSMPG  
LSRAALYSRLQEFLLTQDQLKENGYPFPHPERPGGAVLFTGQKGKPGDSSCRVCCRCGTE  
YLVSSSGRCVRDQLCYHHWGRVRSQVAGGRVSQYTCCAAAPGSVGCQVAKQHVRDGRKE  
SLDGFVETFKKELSRDAYPGIYALDCEMCYTHGLELTRVTVDADMVYDFTVVKPDNE  
IVDYNTRFSGVTEADVAKTSITLPQVQAILLSFFSAQTILIGHSLESDLLALKLIHSTVV  
DTAVLFPHYLGFYKRSRLNLAADYLAQIIQDSQDGHNSSEDASACLQLVMWKVRQRAQI  
QPRHRSASPAALACP

>sp|095249|GOSR1\_HUMAN Golgi SNAP receptor complex member1 OS=Homo sapiens GN=GOSR1 PE=1  
SV=1

MAAGTSSYWEDLRKQARQLENELDLKLVFSKLCTSYSHSSTRDGRRDRYSSDTPLLNG  
SSQDRMFETMAIEIEQLLARLTGVNDKMAEYNSAGVPSLNAALMHTLQRHRDILQDYTH  
EFHKTKANFMAIRERENLMGSVRKDIESYKSGSVNNRRETELFLKEHDHLRNSDRLIEET  
ISIAMATKENMTSQRGMLKSIHSMNTLANRFPVNSLIQRINLRKRRDSLILGGVIGIC  
TILLLLYAFH

>sp|Q7Z602|GP141\_HUMAN Probable G-protein coupled receptor 141 OS=Homo sapiens GN=GPR141  
PE=2 SV=1

MPGHNTSRNSSCDPIVTPHLISLYFIVLIGGLVGVISILFLLVKMNTRSVTTMVINLVV  
VHSVFLLTVPFRLTYLIKKTWMFGLPFCKFVSAMLHIHMYLTFLFYVVLVTRYLIFFKC  
KDKVEFYRKLHAVAASAGMWTLVIVVPLVVSRYGIHEEYNEEHCFKFKELAYTYVKI  
INYMIVIFVIAVAVILLVFQVFIIMLMVQKLRLSHLQEFWAQLKNLFFIGVILVCFLP  
YQFFRIYYLNVVTHSNACNSKVAFYNEIFLSVTAISCYDLLLFVFGGSHWFKQKIIGLWN  
CVLCR

>sp|P51810|GP143\_HUMAN G-protein coupled receptor 143 OS=Homo sapiens GN=GPR143 PE=1 SV=2

MASPRLTGFCCPTRDAATQLVLSFQPRAFHALCLGSGGLRLALGLLQLLPGRRPAGPGSP  
ATSPPASVRILRAAAACDLLGCLGMVIRSTVWLGFNPFVDSVSDMNHTEIWPAAFVCVSA  
MWIQLLYSACFWWLFCYAVDAYLVIRRSAGLSTILLYHIMAWGLATLLCVEGAAMLYYPS  
VSR CERGLDHAIPHYVTMYLPLLLVLVANPILFQKTVTAVASLLKGRQGIYTENERRMGA  
VIKIRFFKIMLVLIICWLSNII NESLLFYLEMQTDINGGSLKPVRTAAKTTWFIGILNP  
AQGFLLSLAFYGTGCSLGFQSPRKEIQWESLTTSAAEGAHPSPMPHENPASGKVSQVG  
GQTSDEALSMLSEGSDASTIEIHTASESCNKNEGDPALPTHGDL

>sp|O14626|GP171\_HUMAN Probable G-protein coupled receptor 171 OS=Homo sapiens GN=GPR171  
PE=2 SV=1

MTNSSFFCPVYKDLEPFTYFFYLVLVGIIGSCFATWAFIQKNTNHRVSIYLINLLTAD  
FLLTLALPVKIVVDLGVAPWKLKIFHCQVTACLIYINMYLSIIFLAFVSDRCLQLTHSC  
KIYRIQEPGFAKMISTVVWLMVLLIMVPNMMIPIKDIKEKSNVGCMEFKKEFGRNWHLLT

NFICVAIFLNFSAIILISNCLVIRQLYRNKDNEYPNVKKALINILLVTTGYIICFVPYH  
IVRIPYTLSQTEVITDCSTRISLFFAKEATLLAVSNLCFDPILYYHLSKAFRSKVTETF  
ASPKETKAQKEKLRCEENNA

>sp|Q9BXC1|GP174\_HUMAN Probable G-protein coupled receptor 174 OS=Homo sapiens GN=GPR174  
PE=2 SV=1

MPANYTCTRPDGDNTDFRYFIYAVTYTVILVPGLIGNILALWVFYGYMKETKRAVIFMIN  
LAIADLLQVLSLPLRIFYLNDHWPFGPGLCMFCFYLYKYNMYASIYFLVCISVRRFWFL  
MYPFRFHDCKQKYDLYISIAGWLIICLACVLFPLLRTSDDTSGNRTKCFVDLPTRNVNLA  
QSVVMMTIGELIGFVTPLLIVLYCTWKTVLSLQDKYPMAQDLGEKQKALKMILTCAGVFL  
ICFAPYHFSFPLDFLVKSNEIKSCLARRVILIFHSVALCLASLNSCLDPVIYYFSTNEFR  
RRLSRQDLHDSIQLHAKSFVSNHTASTMTPELC

>sp|O15218|GP182\_HUMAN G-protein coupled receptor 182 OS=Homo sapiens GN=GPR182 PE=2 SV=1

MSVKPSWGPSPSEGTAVPTSDLGEIHNWTELLDLFNHTLSECHVELSQSTKRVLFLALY  
LAMFVVGLVENLLVICVNWGRSGRAGLMNLYILNMAIADLGIVLSLPVWMLVTLDTYTWL  
WGSFSCRFTHYFYFVNMYSSIFFLVCLSVDRYVTLTSASPSWQRYQHRVRRAMCAGIWWL  
SAIIPLEVVHIQLVEGPEPMCLFMAPFETYSTWALAVLSTTILGFLLPFPLITVFNVL  
TACRLRQPGQPKSRRHCLLLCAYVAVFVMCWLPYHVTLTLLTLHGTHISLHCHLVHLLYF  
FYDVIDCFMHLHCVINPILYNFLSPHFRGRLNNAVVHYLPKDQTKAGTCASSSSCSTQHS  
IIITKGDSQPAAPHPPEPSLSFQAHHLLPNTSPISPTQPLTPS

>sp|P55259|GP2\_HUMAN Pancreatic secretory granule membrane major glycoprotein GP2 OS=Homo  
sapiens GN=GP2 PE=2 SV=3

MPLMERMVGSGLLWLALVSCILTQASAVQRGYGNPIEASSYGLDLDCGAPGTPEAHVCF  
DPCQNYTLLDEPFRSTENSAGSQGCDKNMSGWYRFVGEQVVMSETCVQVHRCQTDAPMW  
LNGTHPALGDGITNHTACAHWSGNCCFWKTEVLVKACPGGYHVYRLEGTPWCNLYCTVP  
RDPSTVEDKCEKACRPEEECLALNSTWGCFCRQDLNSSDVHSLQPQLDCGPREIKVKVDK  
CLLGGGLGEEVIAYLRDPNCSSILQTEERNWVSPTSVPQASACRNILERNQTHAIYKNT  
LSLVNDFIIRDTILNINFQAYPLDMKVSLQAALQPIVSSLNVSDGNGEFIVRMALFQD  
QNYTNPYEGDAVELSVESVLYVGAILQGDTSRNLVLRNCYATPTEDKADLVKYFIIRN  
SCSNQRDSTIHVEENGQSSESRSFVQMFAGHYDLVFLHCEIHLCDLNEQCQPSCSRS  
QVRSEVPAIDLARVLDLGPITRRGAQSPGVMNGTPSTAGFLVAWPMVLLTVLLAWLF

>sp|O95872|GPAN1\_HUMAN G patch domain and ankyrin repeat-containing protein 1 OS=Homo  
sapiens GN=GPANK1 PE=1 SV=1

MSRPLLITFTPATDPSDLWKDGGQPPQPEKPESTLDGAAARAFYEALIGDESSAPDSQRS  
QTEPARERKRKRIRIMKAPAAEVAEGASGRHGQGRSLEAEDKMTHRIIRAAQEGDLPEL  
RRLLEPHEAGGAGGNINARDAFWWTPLMCAARAGQGAASVYLLGRGAAWGVCELSGRDA  
AQLAEEAGFPEARMVRESHGETRSPENRSPTPSLQYCENDTHFQDSNHRTSTAHLSSL  
SQGPQPPNPLPGVPISSPGFKLLLRGGWEPGMGLGPRGEGRANPIPTVLKRDQEGLYRS  
APQPRVTHFPAWDTRAVAGRERPPRVATLSWREERRREEKDRAWERDLRTYMNLEF

>sp|Q9HCL2|GPAT1\_HUMAN Glycerol-3-phosphate acyltransferase 1, mitochondrial OS=Homo  
sapiens GN=GPAM PE=1 SV=3

MDESALTGTIDVSYLPHSSEYSVGRCKHTSEEWGECGFRPTIFRSATLKWKESLMSRKR  
PFVGRCCYSCTPQSWDKFFNPISLGLRNVIIYNETHTRHRGWLARRLSYVLFIQERDV  
HKGMFATNVTENVLNSSRVQEAIAEVAEALNPDGSAQQQSKAVNKVKKKAKRILQEMVAT  
VSPAMIRLTGWVLLKLFNSFFWNIQIHKGQLEMVKAATETNPLLLFPVHRSHIDYLLLT

FILFCHNIKAPYIASGNLNIPIFSTLIHKLGGFFIRRLDETPDGRKDVLYRALLHGH  
VELLRQQQFLEIFLEGTRSRSGKTSCARAGLLSVVVDLSTNVIPDILIPVGISYDRI  
EGHYNGEQLGKPKKNESLWSVARGVIRMLRKNYGCVRVDFAPFSLKEYLESQSQKPVSA  
LLSLEQALLPAILPSRPSDADEGRDTSINESRNATDESLRRRLIANLAEHILFTASKSC  
AIMSTHIVACLLLYRHRQGIDLSTLVEDFFVMKEEVLARDFDLGFSGNSEDVVMHAIQLL  
GNCVTITHTSRNDEFFITPSTTVPSVFELNFYSNGVLHVFIMEAIIACSLYAVLNKRGLG  
GPTSTPPNLISQEQLVKAASLCYLLSNEGTLSPCQTFYQVCHETVGKFIQYGILTVAE  
HDDQEDISPSLAEQWQDKKLPEPLSWRSDEEDEDSDFGEEQRDCYLKVSQSKEHQFIF  
LQRLGPLEAYSSAAIFVHNFSGPVPEPEYLQKLHKYLITRTERNVAVYAESATYCLVK  
NAVKMFKDIGVKETKQKRVSVLELSSTFLPQCNRQKLLEYILSFVVL

>sp|Q9NZD1|GPC5D\_HUMAN G-protein coupled receptor family C group 5 member D OS=Homo sapiens GN=GPC5D PE=2 SV=1

MYKDCIESTGDYFLLCDAEGPWGIILESAILGIVVTILLALLAFLLMRKIQDCSQWNVL  
PTQLLFLLSVLGLFGLAFAFIIELNQQTAPVRYFLFGVLFALCFSCLLAHASNLVKLVRG  
CVSFSWTTILCIAIGCSLLQIIATEYVTLIMTRGMMFVNMTPCQLNVDFVLLVYVFL  
MALTFVSKATFCGPCENWKQHGRILFITVLSIIWVWISMLLRGNPQFQRQPQWDDP  
VVCIALVTNAWVFLLYIVPELCILYRSCRQECPLQGNACPVTAQHSHFQVENQELSRAR  
DSDGAEEDVALTSYGTPIQPQTVDPTECFIPQAKLSPQQDAGGV

>sp|P78333|GPC5\_HUMAN Glypican-5 OS=Homo sapiens GN=GPC5 PE=2 SV=1

MDAQTPVPVGRCLLLALVGSARSEGVQTCCEVRKLFQWRLLGAVRGLPDSPRAGPDLQV  
CISKKPTCCTRKMEERYQIAARQDMQQFLQTSSSTLKFLISRNAAFQETLETLIKQEN  
YTSILFCSTYRNMALAAASVQEFTDVGLYLFADVNPEEFVNRFFDSLPLVYNHLIN  
PGVTDSSEYSECIRMARRDVSPFGNIPQVRVMGQMRSLPSRTFLQALNLGIEVINTD  
YLHFSKECSRALLKMQYCPHCQLALTKPCMGYCLNVMRGCLAHMAELNPHWHAYIRSLE  
ELSDAMHGTYDIGHVLLNFHLLVNDVLAHLNGQKLEQVNRICGRPVRTPTQSPRCSF  
DQSKEKHGMKTTTRNSEETLANRRKEFINSLRLYRSFYGGADQLCANELAAADGLPCWN  
GEDIVKSYTQRVVNGIKAQSGNPEVKVKGIDPVINQIIDKLKHVVQLLQGRSPKPKDWE  
LLQLGSGGGMVEQVSGDCDEDEDGCGSGSGEVKRTLKITDWPDDMNFSDVKQIHQTDTG  
STLDTTGAGCAVATESMTFTLISVVMLLPGIW

>sp|P46091|GPR1\_HUMAN G-protein coupled receptor 1 OS=Homo sapiens GN=GPR1 PE=1 SV=2

MEDLEETLFEFENYSYDLDYYSLESDLEEKVQLGVVHWVSLVLYCLAFVLGIPGNAIVI  
WFTGFKWKKTVTTLWFLNLAIADFIFLLFLPLYISYVAMNFHWPFGIWLCKANSFTAQLN  
MFASVFFLTVISLDHYIHLIHPVLSHRHRTLKNSLIVIFIWLLASLIGGPALYFRDVE  
FNNHTLCYNNFQKHPDPLTIRHHVLTWVKFIIGYLFPLTMSICYLCLIFKVKRSILI  
SSRHFWTILVVVAVFVCWTPYHLFSIWELTIHHNSYSHHVMQAGIPLSTGLAFLNSCLN  
PILYVLISKKFQARFRSSVAEILKYTLWEVSCSGTVSEQLRNSETKNLCLETAQ

>sp|P40197|GPV\_HUMAN Platelet glycoprotein V OS=Homo sapiens GN=GP5 PE=1 SV=1

MLRGTLCAVLGLLRAQPFPCPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGM  
GRGVLQSQSFGMTVLQRLMISDSHISAVAPGTFSDLIKLKTLRLSRNKITHLPGALLDK  
MVLLEQLFLDHNLRGIDQNMFKLVNLQELALNQNLDFLPASLFTNLENLKLDDLSGN  
NLTHLPKGLLGAQAKLERLLLHSNRLVSLDGLLNSLGALETQFHRNHRSIAPGAFDR  
LPNLSSLTLNRHLAFLPSALFLSHNLTLTLFENPLAELPGVLFGEMLQELWLNRT  
QLRTLPAAAFRLNRLRYLGVTLSPRLSALPQGAQGLGELQVLALHSNGLTALPDGLLR  
GLGKLRQVSLRRNRLRALPRALFRNLSSLESVQLDHNQLETLPGDVFGALPRLTEVLLGH

NSWRCDGLGPFLGWLRLQHLGLVGGEPPRCAGPGAAGLPLWALPGGDAECPGPRGPPP  
RPAADSSSEAPVHPALAPNSSEPWWAQPVTGKGQDHSPFWGFYFLLAVQAMITVIIV  
FAMIKIGQLFRKLIRERALG

>sp|P10144|GRAB\_HUMAN Granzyme B OS=Homo sapiens GN=GZMB PE=1 SV=2  
MQPILLLLAFLLPRADAGEIIGGHEAKPHSRPYMAYLMIWDQKSLKRCGGFLIRDDFVL  
TAAHCWGSSINVTLAGHNIKEQEPTQQFIPVKRPIHPAYNPKNFSNDIMLLQLERKAKR  
TRAVQPLRLPSNKAQVKPGQTCVAGWGQTAPLGKHSHTLQEVKMTVQEDRKCESDLRHY  
YDSTIELCVGDPEIKKTSFKGDSGGPLVCNKVAQGIVSYGRNNGMPRACTKVSSFVHWI  
KKTMKRY

>sp|P20718|GRAH\_HUMAN Granzyme H OS=Homo sapiens GN=GZMH PE=1 SV=1  
MQPFLLLLAFLLTPGAGTEEIIGGHEAKPHSRPYMAFVQFLQEKSRRKRCGGILVRKDFVL  
TAAHCQGSSINVTLAGHNIKEQERTQQFIPVKRPIHPAYNPKNFSNDIMLLQLERKAKW  
TTAVRPLRLPSSKAQVKPGQLCSVAGWGYVSMSTLATTLEVLTVQKDCQCERLFHGNY  
SRATEICVGDPPKTTGTGFKGDSGGPLVCKDVAQGILSYGNKKGTPPGVYIKVSHFLPWIK  
RTMKRL

>sp|Q8IUY3|GRAM2\_HUMAN GRAM domain-containing protein 2 OS=Homo sapiens GN=GRAMD2 PE=2  
SV=2

MTALSRSEATEEGNQMHKRTASLNSPVSCKEKPDRVEEPPDYSLHWPEGLKGEEIKKC  
GREGITLNKYNQYHKLFDVPLEEVVLKVCSCALQRDFLLQGRLYISPNWLCFHASLFG  
KDIKVVIPVSVQMIKKHKMARLLPNGLAITNTSQKYIFVSLLSRDSVYDLLRRVCTHL  
QPSSKKSLSVREFSGEPESLEVLIPEMKWRKVCSSRSLSLPDNIPCPSSVDSTDSFF  
PSRKPPMSEKSRAQVASENGGRWAWPMPGWGPACPKKMPNCSPTAKNAVYEEDELEEEPR  
STGELRLWDYRLLVFFVLICFLVMSSSYLAFRISRLQQCLCSLWDDPVPGHR

>sp|Q9UBP9|GULP1\_HUMAN PTB domain-containing engulfment adapter protein 1 OS=Homo sapiens  
GN=GULP1 PE=1 SV=1

MNRAFSRKKDKTWMHTPEALSKHFIPYNAKFLGSTVEQPKGTEVVRDAVRKLKFARHIK  
KSEGQKIPKVELQISYGVKILEPKTKEVQHNCQLHRISFCADDKTDKRIFTFICKDSES  
NKHLCYVFDESKCAEEITLTIGQAFDLAYRKFLMSGGKDVETRKQIAGLQKRIQDLETEN  
MELKNKVQDLENQLRITQVSAPPAGSMTPKSPSTDIFDMIPFSPISHQSSMPTRNGTQPP  
PVPSRSTEIKRDLFGAEPDFPNCGAADFPDIQSKLDEMGEFGKGLTLEGTVFCLDPL  
DSRC

>sp|POC5Z0|H2AB2\_HUMAN Histone H2A-Bbd type 2/3 OS=Homo sapiens GN=H2AFB2 PE=2 SV=1  
MPRRRRRRGSSGAGGRGRTCSRTVRAELSFVSQVERSLREGHYAQRLSRTAPVYLAIVI  
EYLTAKVLELAGNEAQNSGERNITPLLLDMVHNDRLSTLFNTTISQVAPGED

>sp|P23527|H2B10\_HUMAN Histone H2B type 1-0 OS=Homo sapiens GN=HIST1H2B0 PE=1 SV=3  
MPDPAKSAPAPKKGSKAVTKAQKKDGKKRKRSRKESYIYVKVLQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVT  
KYTSSK

>sp|P62805|H4\_HUMAN Histone H4 OS=Homo sapiens GN=HIST1H4A PE=1 SV=2  
MSGRGKGGKGLGKGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGLVK  
VFLENVIRDAVITYTEHAKRKTVTAMDVVYALKRQGRTLYGFGG

>sp|Q96MM7|H6ST2\_HUMAN Heparan-sulfate 6-O-sulfotransferase 2 OS=Homo sapiens GN=HS6ST2  
PE=2 SV=2  
MALPACAVREFEPPRQPERGAPVRTTCPRRHSRVEAELAASRPGSVAASVRAGPPRGVSH

GFHTRPLLDKPRKASSSLAGAACAPL FALLSRGRRRRMHVLRWRDLGSLCRALLTRGLA  
ALGHSLKHVLGAIFSKIFGPMASVGNMDEKSNKLLALVMLFLFAVIVLQYVCPGTECQL  
LRLQAFSSPVPDPYRSEDESSARFVPRYNFTRGDLLRKVDFDIKGDDLIVFLHIQKTGGT  
TFGRHLVRNIQLEQPCECRVGKKCTCHRP GKRETWLF SRSTGWSCGLHADWTEL TSCV  
PSVVDGKR DARLRPSRNFHYITILRDPVSRYLSEWRHVQRGATWKASLHVCDGRPPTSEE  
LPSCYTGD DWSGCPLKEFMDCPYNLANNRQVRMLSDLTLVGCYNLSVMPEKQRNKVLLES  
AKSNLKHMAFFGLTEFQRKTQYLF EKT FNMNFISPFTQYNTTRASSVEINEEIQKRIEGL  
NFLDMELYSYAKDLFLQRYQFMRQKEHQEARRKRQEQRKFLKGRLLQTHFQSQQGQSQN  
PNQNQSQNPNPANQNL TQNL MQNL TQSLSQKENRESPKQNSGKEQNDNTSNGTNDYIGS  
VEKWR

>sp|Q6PII5|HAGHL\_HUMAN Hydroxyacylglutathione hydrolase-like protein OS=Homo sapiens  
GN=HAGHL PE=2 SV=1

MKVKVIPVLEDNYMYLVIEELTREAVAVDVAVPKRLEIVGREGVSLTAVLTTHHHWDHA  
RGNPELARLRPGLAVLGADERIFSLTRRLAHGEELRFGAIHVRCLLTPGHTAGHMSYFLW  
EDDCDPDPALFSGDALSVAGCGSCLEGSAAQMYQSLAELGTLPPETKVF CGHEHTLSNLE  
FAQKVEPCNDHVRAKLSWAKARPLSRRGKRVGGEGTGFGVGGALRQGLMVTGACGHSRRG  
MRMTCPLCRRLWARSASTTPSCGWREYGCCPGASTVTWTLRKASGDCVLG

>sp|Q9UJM8|HAOX1\_HUMAN Hydroxyacid oxidase 1 OS=Homo sapiens GN=HAO1 PE=1 SV=1

MLPRLICINDYEQHAKS VLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVAET  
DLSTS VLGQRVSMPICVGATAMQRM AHVDGELATVRACQSLGTGMMLSSWATSSIEEVAE  
AGPEALRWLQLYIYKDREVTKKLVRQA EKMGYKAIFVTVDTPYLG NRLLDDVRNRFKLPPQ  
LRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLRRLTSLPIVAKGILR  
GDDAREAVKHGLNGILVSNHGARQLDGV PATIDVLPEIVEAVEGKVEVFLDGGVRKGTDV  
LKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLAMALSGCQNVKVIDKTLV  
RKNPLAVSKI

>sp|P54257|HAP1\_HUMAN Huntingtin-associated protein 1 OS=Homo sapiens GN=HAP1 PE=1 SV=3

MRPKRLGRCCAGSRLGPGDPAALTCAPSPSASPAPESAQPQARGTGQRVGS RATSGSQF  
LSEARTGARPASEAGAKAGARRPSAFSAIQGDVRSMPDNDAPWTRFVFQGPFGSRATGR  
GTGKAAGIWKTPAAYVGRPGVSGPERAAFI RELEEALCPNLPPPVKKITQEDVKVMLYL  
LEELLPPVWESVTYGMVLQRERDLNTAARIGQSLVKQNSVLMEENSKLEALLGSAKEEIL  
YLRHQVNL RDELLQLYSDSDEEDEDEEEEEKEAE EEEQEEEAEDLQCAHPCDAPKLI  
SQEALLHQHCPQLEALQEKLRLLEENHQLREEASQLDTLEDEEQMLILECVEQFSEAS  
QQMAELSEVLVLRLENYERQQQEVARLQAQVLKLQQRCRM YGAET EKLQKQLASEKEIQM  
QLQEESVWVGSQQLDLREKYMDCGGLIEMQEEVKTLRQQPPVSTGSATHYPYSVPLETL  
PGFQETLAEELRTSLRRMISDPVYFMERNYEMPRGDTSSLR YDFRYSEDREQVRGF EAE  
GLMLAADIMRGEDFTPAAEFVPQEELGA AKKVPAAEGVMEEAELVSEETEGWEEVELELD  
EATRMNVVTSALEASGLGPSHLDMNYVLQQLANWQDAHYRRQLRWKMLQKGECPHGALPA  
ASRTSCRSSCR

>sp|Q9H6D7|HAUS4\_HUMAN HAUS augmin-like complex subunit 4 OS=Homo sapiens GN=HAUS4 PE=1  
SV=1

MASGDFCSPGEGMEILQQVCSKQLPPCNLSKEDLLQNPYFSKLLNLSQHVD ESGLSLTL  
AKEQAQAWKEVRLHKT TWLRSEILHRVIQELLVDYVYKIQDTNVTSEDKKFHETLEQRLL  
VTELMRLLGPSQEREIPPLLGLEKADLLELMPLSEDFVWMRARLQQEVEEQ LKKKCF TLL  
CYYDPNSDADSETVKA AKVWKLAEVLVGEQQQCQDAKSQQKEQMLLLEKKSAAYSQVLLR

CLTLLQRLLEHRLKTQSELDRIINAQYLEVKCGAMILKLRMEELKILSDTYTVEKVEVHR  
LIRDRLEGAIHLQEQDMENSRQVLNSYEVLGEEFDRLVKEYTVLKQATENKRWALQEFSK  
VYR

>sp|Q9BT25|HAUS8\_HUMAN HAUS augmin-like complex subunit 8 OS=Homo sapiens GN=HAUS8 PE=1  
SV=3

MADSSGRGAGKPATGPTNSSSAKKKDKRVQGGRVIESRYLQYEKKTQKAPAGDGSQTRG  
KMSEGGGRKSSLLQKSKADSSGVGKGDQLSTLLEGHGTAPDLDLSAINDKSIVKKTQPLA  
KTISKKPESTSFSAPRKKSPDLSEAMMMESQTLTLLSVKMENNLAEFERRAEKNLLI  
MCKEKEKLQKKAHELKRRLLSQRKRELADVLDQAIEMLSPFEAVATRFKEQYRTFATAL  
DTTRHELPVRSIHLEGDGQQLLDALQHELVTTRQLLGELDVGDSEENVQVLDLSELKDV  
TAKKDLELRRSFAQVLELSAEASKEAALANQEVWEETQGMAPPSRWYFNQDSACRESGGA  
PKNTPLSEDDNPGASSAPAQATFISPSSEDFSSSSQAEVPPSLSRSGRDLS

>sp|Q9UBI9|HDC\_HUMAN Headcase protein homolog OS=Homo sapiens GN=HECA PE=1 SV=1

MPNPKNSKGGKRNKRANSSGDEQENGAGALAAAAGAAAAGGALAAAAGCGAAAAGAPGA  
GGAAGAGGAGTGAANAAAAAGAAAAGDAKNEAPCATPLICSFGRPVDLEKDDYQKVVCNN  
EHPCPCSTWMLQCFYEWESSILVQFNCIGRARSWNEKQCRQNMWTKGYDLAFRCSCRC  
GGHLLKDDTDWYQVKRMQDEKKKSGSEKNTGRPPGEAAEEAKKCRPPNKPQKGPSHDLP  
RRHSMRQNSQEKAAGAAAYGARSPGGSPGQSPPTGYSILSPAHSFGRSSRYLGEFLKN  
AIHLEPHKKAMAGGHVFRNAHFDYSPAGLAVHRGGHFDTPVQFLRRDLSELLTHIPRHK  
LNTFHVREDDAQVGGGEDLRKFLAALSASHRNVNCALCHRALPVFEQFPLVDGTLFL  
SPSRHDEIEYDVPCHLQGRMLHLYAVCVDCEGVHKKIICIKCKSRWDGSHQLGTMYYTD  
ILAASPCQARLNCKHCGKPVIDVRIGMQYFSEYSNVQQCPHCGNLDYHFVKPFSSFKVL  
EAY

>sp|Q9H8Q6|HEAS1\_HUMAN Putative uncharacterized protein encoded by HEXA-AS1 OS=Homo  
sapiens GN=HEXA-AS1 PE=5 SV=1

MTGKNVYFQSQLEAFHCLQYELFPSRLTINLLVTTHIPFPQTKPHIARCVFTESSKILLG  
LWVQDGECEIMTGAWSCRALRRKSRNLFSEQLKIIPKDLHFRNTMLSSCIRNQLGGPFL  
LEVENNERLNYRSGEGRQL

>sp|A2RTY3|HEAT9\_HUMAN Protein HEATR9 OS=Homo sapiens GN=HEATR9 PE=2 SV=2

MAYEKSTDISDVSRSMFLYPWLEYDPDKTELKAMAPVHLPLSCYQMPKEEFPPSPECWR  
QHPSKPNSVPYCYFKPEIYTHWHDLYDQREEREAEKMLRKMDDCRYIKEVHQTHIKMF  
HLPMSKLTIKSEMRSRPLEPTQDPLKWQRLRELTKSLESPREDEQFYAAQALGCLRISDK  
FVMEALQQVAQTGPEKVKYEAYRTLAITLGCLNKHVIRALIKQLKEKNEGQRMETLTGLRM  
ALNSWAAVSKDKRTQVGDEGLVPVLQTLIKSSSEASLEAALCLGFLRPCSNMVQEFL  
QCLCQGLKTQRMKALRMLVKVMHVHSAPVIKAILDQLCSSSVLEDRFEATQMLKTIGLEQ  
IQAQGLEELTFNLLRRKTHNEPFLAVRQAVAQTVEELKLKPTMMNLVEAQLMNPDATARQ  
EAVISLGLV GIRSPQVFHLLLDLLDAENHQAVKKSLETILCASIDPWIQNKLNKVLS  
VYEAPKTNVKAEPTRFQKEPENPEELTIQDFRLAKLNPLFIAKSITKVGQKKTAFPPCC  
SKPRKHRPQVIGPWQPRIKKQLRVLAETAK

>sp|A8MVW5|HECA2\_HUMAN HEPACAM family member 2 OS=Homo sapiens GN=HEPACAM2 PE=1 SV=1

MGQDAFMEPFGDTLGVFQCKIYLLLFGACSGLKVTVPSTVHGVRGQALYLPVHYGFHTP  
ASDIQIIWLFERPHTMPKYLLGSVNKSVVPDLEYQHKFTMMPNASLLINPLQFPDEGNY  
IVKVNIIQNGTLSASQKIQVTVDPPVTKPVVQIHPPSGAVEYVGNMTLTCHVEGGTRLAY  
QWLKNRGPVHTSSTYSFSPQNNTLHIAPVTKEDIGNYSCLVRNPVSEMESDIIMPIIYYG

PYGLQVNSDKGLKVGCVFTVDLGEAILFDCSADSHPPNTYSWIRRTDNTTYIIKHGPRLE  
VASEKVAQKTMDYVCCAYNNITGRQDETHFTVIITSVGLEKLAQKGKSLSPASITGISL  
FLIISMCLLFLWKKYQPYKVIKQKLEGRPETEYRKAQTFSGHEDALDDFGIYEFVAFPDV  
SGVSRIPSRVSPASDCVSGQDLHSTVYEVIQHHPAQQQDHPE

>sp|Q5U5R9|HECTD2\_HUMAN Probable E3 ubiquitin-protein ligase HECTD2 OS=Homo sapiens  
GN=HECTD2 PE=2 SV=2

MSEAVRVPSPATPLVVAAPAPEERKKGESEREKLPPIVSAGAGATAGLDRGAKGQISTFS  
SFISAVSPKKEAAENRSSPAHLVFPNIKNVREPPPICLDVRQKQRTSMDASSEMKAPVL  
PEPILPIQPKTVKDFQEDVEKVSSGDKAVHDFYLTTFDSFPELNAAFKKDATASFNTI  
EDSGINAKFVNAVYDTLLNTPQDVQKTVLKGINSLLREWKGPRTKDDLRAFYILLQNPQ  
FNNTSTYVIYAHLLRQIATLVEADHHFLVHWFKKLSQKRFKQLVERLLQFISLRLFAKP  
EEFPPIKCSWWIPSAKVLALLNTANNLVHPPLIPYTDFFYNSTLDHIDLMEEYHTWQNF  
GNSHRFSFCQYPFVISVAAKKIIIQRDSEQQMINIARQSLVDKVSRRQRPDMNILFLNMK  
VRRTHLVSDSLDELTRKADLKKLKVTFVGEAGLDMGGLTKEWFLLLIRQIFHPDYGMF  
TYHKDSHCHWFSSFKCDNYSEFRLVGILMGLAVYNSITLDIRFPCCYKLLSPPIIPSD  
QNIPVGICNVTVDLQCIMPELAHGLSELLSHEGNVEEDFYSTFQVFQEEFGIISYNLK  
PGGDKISVTNQNRKEYVQLYTDFFLLNKSIYKQFAAFYFGFHSVCASNALMLLRPEEVEIL  
VCGSPDLMDHALQRSTQYDGYAKTDLTIKYFWDVVLGFPLDLQKKLLHFTTGSDRVPVGG  
MADLNFKISKNETSTNCLPVAHTCFNQLCLPPYKSKKDLKQKLIIGISNSEGFGLE

>sp|Q9BYK8|HELZ2\_HUMAN Helicase with zinc finger domain 2 OS=Homo sapiens GN=HELZ2 PE=1  
SV=6

MAVWEAEQLGGLQRGDLLTPPAPDGDGRAPLGQPPGAQLYCPACLVCHSQEAFENHCA  
SSEHAQMVAFDQALPWEHRSPPPGLSKFELCPKPDLCYGDCTKAHSAQELQEWVRRQT  
AVELRGQAAWQDGLVPYQERLLAEYQRSSEVLVLAETLDGVRVTCNQPLMYQAQERKTQ  
YSWTFVAVHSEEPHLLHALLKQEPGADFSLVAPGLPPGRLYARGERFRVPSSTADFQVGV  
VQAASFGTFEQWVDFGRRPVLLQKLGLQLGQRRPGPCRNLALGHPEEMERWHTGNRH  
VVPGVERTAEQTALMAKYKGPALALEFNRSSVASGPISTNYRQRMHQFLYEEEEAAQQQL  
VAKLTLRGQVFLKTALQTPALNMLFAPPGALYAEVPVPSSLPDQDQFLLGRAVSTALV  
APVPAPDNTVFEVRLERRASSEQALWLLPARCCALGLQPEARLVLEVQFQIDPMTFRL  
WHQAVDTLPPEQLVVPDLPTCALPRPWSVPPLRRGNRKQELAVALIAGWGPDGRRVPPL  
LIYGPFGTGKTYTLAMASLEVIRRPETKVLICTHTNSAADIYIREYFHSVSGGHPEATP  
LRVMYTDRLPSQTDPTLVQYCCLTDDRQAFRPPTRAELARHRVVTTTSQARELRVPVGF  
FSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRLFSVARARAAEHTLLHRL  
FLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPHPRHYP  
MFCHVAGSPDRDMSMASWNLAEIAQVVEKVQEAYNTWPSCWGGREQRCICVVSHTGAQVS  
ALRQELRRRDLGQSVSGSFEILPGRQFRVVLSTVHTCQSLLSPGALAPEFFTDARVLNT  
VLTRAQSQLVVVGDAVALCSFGACGKLWESFIRECVERHSVCPEGLSMEQVEQGVQRRR  
WPPRGTAAGAAGNWEAAPEPVGDLAEEQAAVVTAMVKAEPGDEALSPASRDITATTAQTE  
AAAAPAGDAVKEDVVPAGACAGAAAAAGVESTAEADAEADFWPDGELNADDAILRELLD  
ESQKVMVTVGEDGLLDTVARPESLQQARLYENLPPAALRKLLHAEPERYRHCSFVPETFE  
RASAIPLDDASSGPIQVRGRDCGMAGFAGDEVLVQLLSGDKAPEGRRLRGRVLGVLKRKRH  
ELAFVCRMDTWDPRIMVPINGSVTKIFVAELKDPSQVPIYSLRKRLQRVGLERLTAEAR  
HSRLFWVQIVLWRQGFYYPLGIVREVLPASTWEQGLRILGLEYSRVPPSDQATITKVL  
QKYHTELGRVAGRREDCRAFLTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVP

RDGVL DVEARRQGAAFYAPGREPVMLPASLCQDVL SLLPGRDRLAISLFLTMEKASGQL  
KSLRFAPS VVQSDRQLSYEEAEVIRQH PGAGREL PARLDSVDACVVAACYFSRLLRRHR  
LRSDCFYE QPDE DGLGFRAAHIMVKEYMIQFNRLVAEFLVGSECTRTVTPLRWQPAPRS  
QQKALCEKHGDRVPLSLHLGHH LHGGGSPDTRLHLLASLWKVQVFAARTQDYE QMVD  
LVTDDMHPFLAPAGRDLRKALERSAFGR CARGHQQQGGHYS LQVDWYTWATSPIRRYLD  
VVLQRQILLALGHGGSAYSARDIDGLCQAFSLQH ALAQSYQRRARSLHLAVQLKAQPLDK  
LGFVVDVEAGSRCFRLLP SNRETL PDPCVPYGS LQLAEHPHALAGR PGLRLLWRRRVY  
SAQGSSPPLPLPGTVDPHTLAVETALWKQLLELVELQRWPEAAA LIQEKG EASQRREL V  
QVQRSHCGHFLEVARELGSGDTLQVQLGTSLQH GFLVPSPQLWTVAPGFSLCLEHVERPG  
DCFSGRVYRAPRDRYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLSVSWEAS RTPQ  
GQLQGAFRLEAAFL EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSLGPGLNVDPGTY  
TWVAHGQTQDWDQERRADRQEAPRRVHLFVHHMGM EKVP EEVL RPGLTFV ELLPKQLPD  
LRKEEAVRGLEEASPLVTSIALGRPVQP LCRVIPSRFLERQTYNIPGGRHKL NPSQNVA  
VREALEKPFTVIQPPGTGKTIVGLHIVFWFH KSNQEQQVPGGPPRGEKRLGGPCILYCG  
PSNKSVDVLAGLLRRMELKPLRVYSEQA ESEFPVPRV GSRKLLRKS PREGRPNQSLRS  
ITLHHRIRQAPNPYSSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCT  
CSCAASASLKILDVRQILVDEAGMATEPETLIPLVQFPQAEKVVL LGDHKQLRPVVKNER  
LQNLGLDRSLFERYHEDAHMLDTQYRMHEGICAFPSVAFYKSKLKTWQGLRRPPSVLGHA  
GKESCPVIFGHVQGHESLLVSTDEGNENSKANLEEVAE VVRITKQLTLGRTVEPQDIAV  
LTPYNAQASEISKALRREGIAGVAVSSITKSQGSEWRYVLVSTVRTCAKSDLDQRPTKSW  
LKKFLGFVDPNQVNAVTRAQEGLC LIGDHLLLRCCPLWRSLLDFCEAQQTLVPAGQVR  
VCRRPTMPS

>sp|Q9BXL5|HEMGN\_HUMAN Hemogen OS=Homo sapiens GN=HEMGN PE=1 SV=1

MDLGKDQSHLKHHTPDPHQEENHSPEVIGTWSLRNRELLRKRKA EVHEKET SQWLFGEQ  
KKRKQQR TGKGNRRGRKRQNT ELKVEPQPQIEKEIVEKALAPIEKKTEPPGSITKVFPS  
VASPQKVVP EEHFSEICQESNIYQENFSEYQEIAVQNH SSETCQH VSEPEDLSPKMYQEI  
SVLQDNSSKICQDMKEPEDNSPNTCQVISVIQDHPFKMYQDMAKREDLAPKMCQEA AVPK  
ILPCPTSEDTADLAGCSLQAYPKPDVPKGYILD TDQNP AEPEEYNETDQGIAETEG LFPK  
IQEIAEPKDLSTKTHQESAEPKYLPHKTCNEIIVPKAPSHKTIQETPHSEDYSIEINQET  
PGSEKYSPEYQEIPGLEEYSPEIYQETSQLEEYSPEIYQETPGPEDLSTETYKNKDVPK  
ECFPEPHQETGGPQGQDPKAHQEDAKDAYTFPQEMKEKPKEEPGIPAILNESH PENDVYS  
YVLF

>sp|Q9Y5N5|HEMK2\_HUMAN HemK methyltransferase family member 2 OS=Homo sapiens GN=N6AMT1  
PE=1 SV=3

MAGENFATPFHGHVGRGAFSDVYEP AEDTFLLN ALEAAAAELAGVEICLEV GSGSGVVS  
AFLASMIGPQALY MCTDINPEAACTLETARCNKVHIQPVITDLVKGLLPRLTEKVDLLV  
FNPPYVTPPQEVGSHGIEAAWAGGKNGREVM DRFFPLVPDLLSPKGLFYLVTIKENNPE  
EILKIMKTGKLQGTALSRQAGQETLSVLKFTKS

>sp|Q04756|HGFA\_HUMAN Hepatocyte growth factor activator OS=Homo sapiens GN=HGFA PE=1  
SV=1

MGRWAWVPSWPPPG LGPFLLLLLLLLLL PRGFQPPGGNRTESPEPNATATPAIPTILV  
TSVTSETPATSAPEAGPQSGGLPPPRAVPSSSPQAQALTEDGRPCRFPFRYGG RMLH  
ACTSEGSAHRKWCATTHNYDRDRAWGYCVEATPPPGGPAALDPCASGPCLNGGSCSNTQD  
PQSYHCSCPRAFTGKDCGTEKCFDETRYEYLEGGDRWARVRQGHVEQCECFGGRTWCEGT



RHTACLSSPCLNGGTCHLIVATGTTVCACPPGFAGRLCNIEPDERCFLGNGTGYRGVAST  
SASGLSCLAWNSDLLYQELHVDSVGAAALLGLGPHAYCRNPDNDERPWCYVVKDSALSWE  
YCRLEACESLTRVQLSPDLLATLPEPASPGRQACGRRHKKRTFLRPRIIGGSSSLPGSHP  
WLAAYIGDSFCAGSLVHTCWVVSAAHCFSSHSPRDSVSVVLGQHFFNRTDVTQTFGIE  
KYIPYTLYSVFNPSDHDVLVIRLKKKGDRCATRSQFVQPICLPEPGSTFPAGHKCQIAGW  
GHLDENVSGYSSSLREALVPLVADHKCSSPEVYGADISPMLCAGYFDCKSDACQGDSGG  
PLACEKNGVAYLYGIISWGDGCGRLHKPGVYTRVANYVDWINDRIRPPRLVAPS

>sp|P26927|HGFL\_HUMAN Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1  
SV=2

MGWLPLLLLLLTQCLGVPGQRSPLNDFQVLRGTQLHLLHAVVPGPWQEDVADAEECAGRC  
GPLMDCRAFHYNVSSHGCQLLPWTQHSPHTRLRRSGRCDLFQKKDYVRTCIMNNGVGYRG  
TMATTVGGLPCQAWSHKFPNDHKYPTLNRNGLEENFCRNPDGDPPGWPWCYTTPAVRFQS  
CGIKSCREAAVCWNGEYRGAVDRTESGRECQRWDLQHPHQHPFEPGKFLDQGLDDNYC  
RNPDGSERPWCYTTPQIEREFCDLPRCGSEAQPRQEATTVSCFRGKGEYRGTTANTTA  
GVPCQRWDAQIPHQHRFTPEKYACKDLRENFCRNPDGSEAPWCFTLRPGMRAAFQYQIRR  
CTDDVRPQDCYHGAGEQYRGTVSKTRKGVQCQRWSAETPHKPQFTFTSEPHAQLEENFCR  
NPDGDSHGPWCYTMDPRTFPDYCALRRADDQPPSILDPDQVQFEKCGKRVDRDLQRRS  
KL RVVGGHPGNSPWTVSLRNRQGQHFCGGSVLKEQWILTARQCFSSCHMPLTG YEVWLG  
T LFQNPQHGEPSLQRPVAKMVCGPSGSQLVLLKLESVTLNQRVALICLPPEWYVVP  
PGT KCEIAGWGETKGTGNDTVLNVALLNVISNQEKNIKHRGRVRESEMCTEGLLAPV  
GACEGD YGGPLACFTHNCWVLEGIIPNRVCARSRPAVFTRVSVFVDWIHKVMRLG

>sp|P14210|HGF\_HUMAN Hepatocyte growth factor OS=Homo sapiens GN=HGF PE=1 SV=2

MWVTKLLPALLLQHVLHLHLLLP  
IAIPYAEGQRKRNTIHEFKSAKTTLIKIDPALKIK  
TKKVNTADQCANRCTRNGLPFTCKAFVFDKARKQCLWFPFNSMSSGVKKEFGHEFDLYE  
NKDYIRNCIIGKGRSYKGTVSI  
TKSGIKCPWSSMIPHEHSFLPSSYRGKDLQENYCRNP  
RGEEGPWCFTSNPEVRYEVC  
DIPQCSEVECMTCNGESYRGLMDHTESGKICQRWDHQT  
P HRHKFLPERYPDKGFDNYCRNP  
DGQPRPWCYTLDPHTRWEYCAIKTCADNTMNDTDVPL  
ETTECIQGQGEYRGTVNTI  
WNGIPCQRWDSQYPHEHDMTPENFKCKDLRENYCRNP  
DGS ESPWCFTTDPNIRVGYCSQIPNCDMSHGQDCYRNGKNYMGNLSQTRSGLTCS  
MWDKNME DLHRHIFWEPDASKLNENYCRNP  
DDAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNL  
DHPVISAKTKQLRVVNGIPTRT  
NIGWMVSLRYRNKHICGSLIKESWVLTARQCFPSRD  
LKDYEAWLGIHDVHGRGDECKQV  
LNVSQLVYGPEGSDLVLMKLARPAVLDDFVSTIDL  
P NYGCTIPEKTSCSVYGWYTG  
LINYDGLLRVAHLYIMGNEKCSQHHRGKVT  
LNESEICAG AEKIGSGPCEGDYGGPLVCEQHKMR  
MVLGVIVPGRGCAIPNRPGIFVRVAYYAKW  
IHKIILTYKVPQS

>sp|Q9XRX5|HHLA3\_HUMAN HERV-H LTR-associating protein 3 OS=Homo sapiens GN=HHLA3 PE=1  
SV=3

MFGACYKQPLKPSGSEPPAEECRMTPRHAGCDVTEMQRILSQPTFTEHLLRAVCTKLANM  
YSTSTDCREHCRRGMKAKQLKAEAGRSCQRKGVPIQTPREHSWISCKKEFEANP

>sp|Q96JB3|HIC2\_HUMAN Hypermethylated in cancer 2 protein OS=Homo sapiens GN=HIC2 PE=1  
SV=2

MVSGPLALRWCAWAGRGDMGPDMELP  
SHSKQLLLQLNQRTKGFLCDV  
IIMVENSIFRAH KNVLAASSIYFKSLV  
LHDNLINLDTDMVSSTVFQQILDFIYTG  
KLLPSDQPAEPNFSTLL TAASYLQ  
LPELAALCRRKLKRAGKPFSGRAGSTGMGR  
PPRSQRLSTASVIQARYQGLVD

GRKGAHAPQELPQAKGSDELFLGGSNQDSVQGLGRAVCPAGGEAGLGGCSSSTNGSSGG  
CEQELGLDLSKKSPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG  
TPDEPMDLEGAEDNHLLEAPGGQPRKSLRHSTRKKEWKKEPVAGSPFERREAGPKGP  
CPGEEGEGVDRVPNGILASGAGSPGYEPPYPCKEEEEENGKDASEDSAQSGSEGGSGH  
ASAHMYRQEGYETVSYGDNLYVCIPCAKGFPSSEQLNAHVETHTEELFIKEEGAYETG  
SGGAEEEEAEDLSAPSAAYTAEP RPFKCSVCEKTYKDPATLRQHEKTHWLTRPFPNCICGK  
MFTQRGTMTRHMRSHLGLKPFACDECGMRFT RQYRLTEHMRVHSGEKP YECQLCGGKFTQ  
QRNLISHLRMHTSPS

>sp|AOA096LPI5|GVQW2\_HUMAN Protein GVQW2 OS=Homo sapiens GN=GVQW2 PE=4 SV=1

MQYPFRKLLRPSTESCCVAQARVQWCHLGS LQPPLPGFKQFSCHSLPSSWDYRWNLTLSP  
RLECSGAISAHCNCLPDLSDSPASTSRVAGTTGAHHHAQEPVVIRKM

>sp|Q9H116|GZF1\_HUMAN GDNF-inducible zinc finger protein 1 OS=Homo sapiens GN=GZF1 PE=1  
SV=1

MESGAVLLESKSSPFNLLHEMHELRLLGHLCDVTVSVEYQGVKDFMAHKAVLAATSKFF  
KEVFLNEKSVDGTRTNVYLNEVQVADFASFLEFVYAKVQEEDRVQRMLEVAEKLKCLD  
LSETCFQLKKQMLESVLLELQNFSESQEVEVSSGSQVSAAPAPRASVATDGPHPSGLTDS  
LDYPERASNGMSSDLPPKSKDKLDKKKEVVKPPYPKIRRASGRLAGRKVFVEIPKKKY  
TRRLREQQKTAEGDVGDYRCPDQSPDRVGTEMEQVSKNEGCAQAELEELSKKAGPEEE  
EEEEEEDEEGEKKKS NFKCSICEKAFLYEK SFLKHSKHRHGVATEVVYRCDTCGQTFANR  
CNLKSHQRHVHSSERHFPCELCKGKFKRKKDVKRHV LQVHEGGERHRCGQCGKGLSSKT  
ALRLHERHTHTGDRPYGCTECGARFSQPSALKTHMRIHTGEKPFVCECGARFTQNHMLIY  
HKRCHTGERPFMCETCGKSFASKEYLKHHNRIHTGSKPFCFRTFAQRNSLYQHIKV  
HTGERPYCCDQCGKQFTQLNALQRHRIHTGERPFMCNACGRFTTDKSTLRRHTSIHDKN  
TPWKSFLVIVDGSPKNDDGHKTEQPDEEYVSSKLSDKLLSFAENGHFHNLAAVQDTVPTM  
QENSSADTACKADDSVVSQDTLLATTISELSELTPTQTD SMPTQLHSLSNME

>sp|Q96QV6|H2A1A\_HUMAN Histone H2A type 1-A OS=Homo sapiens GN=HIST1H2AA PE=1 SV=3

MSGRGKQGGKARAKSKSRSSRAGLQFPVGRVHRLLRKGN YAERIGAGAPVYLA AVLEYLT  
AEILELAGNASRDNKKTRIIPRHLQLAIRNDEELNKLLGGVTIAQGGVLPNIQAVLLPKK  
TESHHHKAQSK

>sp|Q7L7L0|H2A3\_HUMAN Histone H2A type 3 OS=Homo sapiens GN=HIST3H2A PE=1 SV=3

MSGRGKQGGKARAKSKSRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLA AVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLLGRVTIAQGGVLPNIQAVLLPKK  
TESHHKAKGK

>sp|Q9BTM1|H2AJ\_HUMAN Histone H2A.J OS=Homo sapiens GN=H2AFJ PE=1 SV=1

MSGRGKQGGKVRAKSKSRSSRAGLQFPVGRVHRLLRKGN YAERVGAGAPVYLA AVLEYLT  
AEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLLGKV TIAQGGVLPNIQAVLLPKK  
TESQKTKSK

>sp|Q99879|H2B1M\_HUMAN Histone H2B type 1-M OS=Homo sapiens GN=HIST1H2BM PE=1 SV=3

MEPVKSAPVPKKGSKAINKAQKKGKKRKR SRKESYSVYVYKVLQVHPDTGISSKAM  
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLP GELAKHAVSEGTKAVT  
KYTSSK

>sp|POC1H6|H2BFM\_HUMAN Histone H2B type F-M OS=Homo sapiens GN=H2BFM PE=1 SV=2

MAAASAMAEASSETTSEEGQSIQEPKEANSTKAQKQKRRGCRGSRRRHANRRGDSFGDSF  
TPYFPRVLKQVHQGLSLSQEAVSVMSMIHDILDRIATEAGQLAHYTKRVTITSRDIQMA

VRLLLPGKMGKLAEAQGTNAALRTSLCAIWQQRK

>sp|060243|H6ST1\_HUMAN Heparan-sulfate 6-O-sulfotransferase 1 OS=Homo sapiens GN=HS6ST1  
PE=1 SV=5

MRRRRAGGRMTVERASKFVLVVAGSVCFMLILYQYAGPGLSLGAPGGRAPPDDLDFFTP  
DPHYEKKYYFPVRELESLRFDMMKGGDVIVFLHIQKTGGTTFGRHLVQNVRLVPCDCRP  
GQKKCTCYRPNRRETWLFSTRFSTGWSCGLHADWTELTNCVPGVLDRRDSAALRTPRKFFY  
ITLLRDPVSRYLSEWRHVQRGATWKTSLHMCGRTPPTPEELPPCYEGTDWSGCTLQEFMD  
CPYNLANNRQVRMLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKT  
QYLFERTFNLKFI RPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLDYAKDLFQQRYQ  
YKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTEDYMSHIIKW

>sp|014929|HAT1\_HUMAN Histone acetyltransferase type B catalytic subunit OS=Homo sapiens  
GN=HAT1 PE=1 SV=1

MAGFGAMEKFLVEYKSAVEKKLAEYKCNNTAIELKLVRFPEDLENDIRTFPEYTHQLF  
GDDETAFGYKGLKILLYIAGSLSTMFRVEYASKVDENFDCVEADDEGKIRQIIPPGFC  
TNTNDFLSLLEKEVDFKPFGLTLHTYSVLSPTGGENFTFQIYKADMTCRGFREYHERLQT  
FLMWF IETASFIDVDDERWHYFLVFEKYNKDGTATFATVGYMTVYNYVYPDKTRPRVSQ  
MLILTPFQGGQGHGAQLETVHRYYTEFPTVLDITAEDPSKSYVKLRDFVLVKLCQDLPCF  
SREKLMQGFNEDMAIEAQQKFKINKQHARRVYEILRLLVTDMSDAEQYRSYRLDIKRRLI  
SPYKKKQRD LAKMRKCLRPEELTNQMNQIEISMQHEQLEESFQELVEDYRRVIERLAQE

>sp|Q7Z4H7|HAUS6\_HUMAN HAUS augmin-like complex subunit 6 OS=Homo sapiens GN=HAUS6 PE=1  
SV=2

MSSASVTAFEKEHLWMYLQALGFEPGPATACGKIVSHTHLGVNMFDKLN RDAFHIISYF  
LFQVLDQSLTKEVFKFCWPPFDQKSDTEFRKHCCIEWIKRISGECGSSFPQVVGSLFLSPG  
GPKFIHLMYHFARFVAMKYIKSNSKNSHHFVETFNKPKDLHKCIARCHFARSRLQIL  
QRQDCVTQKYQENALSVKQVRNLRSECIGLENQIKKMEPYDDHSNMEEKIQKVRSLWAS  
VNETLMFLEKEREVVSSVLSLVNQYALDGTNVAINIPRLLLDKIEQMFLHIGNVYEAG  
KLNLLTVIQLLNEVLKVMKYERCQADQARLTVDLHYLEKETKFQKERLSDLKHMRYRIKD  
DLTTIRHSVVEKQGEWHKKWKEFLGLSPFSLIKGWTPSVDLLPPMSPLSFDPAEEVYAK  
SILCQYPASLPDAHKKQHNQENGCRGSDTLGALHDLANSPASFLSQSVSSSDRNSVTVLE  
KDTKMGTPKEKNEAISKKIPEFEVENSPLSDVAKNTESSAFGGSLPAKKSDFQKEQDHL  
VEEVARAVLSDSPQLSEGKEIKLEELIDSLGSPFLTRNQIPRTPENLITEIRSSWRKAI  
EMEENRTKEPIQMDAEHREVLPESLPVLHNQREFSMADFLLETTVSDFGQSHLTEEKVIS  
DCECVPQKHVLTSHIDEPTQNQSDLLNKKVICKQDLECLAF TKLSETSRMETFSPA VGN  
RIDVMGGSEEEFMKILDHLEVSCNKPSTNKTMLWNSFQISSGISSKSFKDNDFGILHETL  
PEEVGHLSFNSSSSSEANFKLEPNSPMHGGTLEDVVGGRQTPESDFNLQALRSRYEAL  
KKSLSKKREESYLSNSQTPERHKPELSPTPQNVQTDDTLNFLDTCDLHTEHIKPSLRTSI  
GERKRSLSPLIKFSPVEQRLRTTIACSLGELPNLKEEDILNKSLDAKEPPSDLTR

>sp|000165|HAX1\_HUMAN HCLS1-associated protein X-1 OS=Homo sapiens GN=HAX1 PE=1 SV=2

MSLFDLFRGFFGPGPRSHRDPFFGGMTRDEDDDEEEEEEGSWGRGNPRFHSPQHPPPEE  
FGFGFSFSPGGGIRFHDNFGFDDLVRDFNSIFS DMGAWTLPSHPPPELGPESETPGERLR  
EGQTLRDSMLKYPDSHQPRIFGGVLESDARSESPQAPDWGSQRPFHRFDDVWPMDPHPR  
TREDNDLDSQVSQEGLPVLQPQPKSYFKSISVTKITKPDGIVEERRTVVDSEGRTEETV  
TRHEADSSPRGDPESPRPPALDDAFSILDLFLGRWFRSR

>sp|P09105|HBAT\_HUMAN Hemoglobin subunit theta-1 OS=Homo sapiens GN=HBQ1 PE=1 SV=2

MALSAEDRALVRALWKKLGSNVGVYTTEALERTFLAFPATKTYFSHLDLSPGSSQVRAHG  
QKVADALSLAVERLDDLPHALSLSHLHACQLRVDPASFQLLGHCLLVTLARHYPGDFSP  
ALQASLDKFLSHVISALVSEYR

>sp|P02008|HBAZ\_HUMAN Hemoglobin subunit zeta OS=Homo sapiens GN=HBZ PE=1 SV=2

MSLTKTERTIIIVSMWAKISTQADTIGTETLERLFLSHPQTKTYFPHFDLHPGSAQLRAHG  
SKVVAAVGDAVKSIDDIGGALSKLSELHAYILRVDPVNFKLLSHCLLVTLAARFPADFTA  
EAHAAWDKFLSVVSSVLTEKYR

>sp|Q8TDS4|HCAR2\_HUMAN Hydroxycarboxylic acid receptor 2 OS=Homo sapiens GN=HCAR2 PE=1  
SV=1

MNRHHLQDHFLEIDKKNCCVFRDDFIVKVLPPVLGLEFIFGLLGNGLALWIFCFHLKSWK  
SSRIFLFLNLA VADFLLIICLPFLMDNYVRRWDWKFGDIPCRMFLMLAMNRQGSIIFLT  
VAVDRYFRVVPHHALNKISNRATAAIIISCLLWGITIGLTVHLLKKKMPIQNGGANLCSSF  
SICHTFQWHEAMFLEFFLPLGIILFCSARIIWSLRQRQMDRHAKIKRAITFIMVVAIVF  
VICFLPSVVVRIRIFWLLHTSGTQNCVYRSVDLAFFITLSFTYMNSMLDPVYYFSSPS  
FPNFFSTLINRCLQRKMTGEPDNNRSTSVELTGDPNKTRGAPEALMANSGEPSYLG  
TSP

>sp|Q9P1Z3|HCN3\_HUMAN Potassium/sodium hyperpolarization-activated cyclic nucleotide-  
gated channel 3 OS=Homo sapiens GN=HCN3 PE=2 SV=2

MEAEQRPAAGASEGATPGLEAVPPVAPPPATAASGPIPKSGPEPKRRHLGTLLQPTVNKF  
SLRVFGSHKAVEIEQERVKSAGAWIIHPYSDFRFYWDLIMLLMVGNLIVLPVGITFFKE  
ENSPPWIVFNVLSDTFFLLDLVNFRTGIVVEEGAEILLAPRAIRTRYLRWFLVDLISS  
IPVDYIFLVVELEPRLDAEVYKTARALRIVRFTKILSLLRLLRLSRLIRYIHQWEEIFHM  
TYDLASAVVRIFNLIGMMLLLCHWDGCLQFLVPMLQDFPPDCWVSINHMVNHSWGRQYSH  
ALFKAMSHMLCIGYGQAPVGMPPDVWLTMLSMIVGATCYAMFIGHATALIQSLDSSRRQY  
QEKYKQVEQYMSFHKLPADTRQRIHEYYEHRYQGKMFDEESILGELSEPLREEIINF  
TCRGLVAHMPPLFAHADPSFVTAVLTKLRFEVFQPGDLVREGSVGRKMYFIQHGLLSVLARGA  
RDTRLTDGSYFGEICLLTRGRRTASVRADTYCRLYSLSVDHFNALVEEFPMRRRAFETVA  
MDRLLRIGKKNLSILQRKRSESPGSSGGIMEQHLVQHDRDMARGVRGRAPSTGAQLSGKP  
VLWEPLVHAPLQAAAVTSNVAIALTHQRGPLPLSPDSPATLLARSAWRSAGSPASPLVPV  
RAGPWASTSRLPAPPARTLHASLSRAGRSQVSLGPPPGGGRRLLGPRGRPLSASQPSLP  
QRATGDGSPGRKSGSERLPPSGLLAKPPRTAQPPRPPVPEPATPRGLQLSANM

>sp|Q9UBK5|HCST\_HUMAN Hematopoietic cell signal transducer OS=Homo sapiens GN=HCST PE=1  
SV=1

MIHLGHILFLLLLPVAAAQTTPGERSSLPAYFPGTSGSCSGCGLSLPLLAGLVAADAVA  
SLLIVGAVFLCARPRRSPAQEDGKVYINMPGRG

>sp|Q8WUI4|HDAC7\_HUMAN Histone deacetylase 7 OS=Homo sapiens GN=HDAC7 PE=1 SV=2

MDLRVGQRPPVEPPPEPTLLALQRPQRLHHHLFLAGLQQRSVEPMRLSMDTPMPELQVG  
PQEQLRQLLHKDKSKRSVAVSSVVKQLAEVILKKQQAALERTVHPNSPGIPYRTLEPL  
ETEGATRSMLSSFLPPVPSLPDPPEHFPLRKTVSEPNLKLRYKPKKSLERRKNPLLRKE  
SAPPSLRRRPAETLGDSSPSSSTPASGCSSPNDSEHGPNPILGSEALLGQRLRLQETSV  
APFALPTVSLLPAITLGLPAPARADSDRRTHPTLGPRGPILGSPHTPLFLPHGLEPEAGG  
TLPSRLQPILLDDPSGSHAPLLTVPLGLPLPFHFAQSLMTTERLSGSGLHWPLSRTRSEP  
LPPSATAPPPPGPMQRLEQLKTHVQVIKRSAPSEKPRLRQIPSAEDLETGGGPGQVV  
DDGLEHRELGHGQPEARGPAPLQQHPQVLLWEQQRLAGRLPRGSTGDTVLLPLAQGGHRP

LSRAQSSPAAPASLSAEPASQARVLSSSETPARTLPFTTGLIYDSVMLKHQCSCGDN  
HPEHAGRIQSIWSRLQERGLRSQCECLRGRKASLEELQSVHSEHVLVYGTNPLSRLKLD  
NGKLAGLLAQRMFVMLPCGGVGVDTDTIWNEHSSNAARWAAGSVTDLAFKVASRELKNG  
FAVVRPPGHHADHSTAMGFCFFNSVAIACRQLQQQSKASKILIVDWDVHHGNGTQQTFYQ  
DPSVLYISLHRHDDGNFFPGSGAVDEVGAGSGEGFNVNVAWAGGLDPPMGDPEYLAAFRI  
VVMPIAREFSPDLVLVSAGFDAAEGHPAPLGGYHVSACFCGYMTQQLMNLAGGAVVLALE  
GGHDLTAICDASEACVAALLGNRVDPLSEEGWKQKPNLNAIRSLEAVIRVHSKYWGCMQR  
LASCPDSWVPRVPGADKEEVEAVTALASLSVGILAEDRPSEQLVEEEEPMNL

>sp|Q5TGJ6|HDGL1\_HUMAN Hepatoma-derived growth factor-like protein 1 OS=Homo sapiens  
GN=HDGFL1 PE=2 SV=1

MSAYGMPMYKSGDLVFAKLKGYAHWPARIEHMTQPNRYQVFFFGTHETAFLSPKRLFPYK  
ECKEKFGKPNKRRGFSAGLWEIENNPVQASDCPLASEKSGDGPWPEEAAEGDEDKPT  
HAGGGGDELGKPDDDKPTEEKGPLKRSAGDPPEDAPKRPKEAAPDQEEEAERAAEAE  
RAAAAAATAVDEESPFLVAVENGSAPESEGLVCEPPQPEEEELREEEVADEEASQEWHA  
EAPGGGDRDSL

>sp|Q9BSH5|HDHD3\_HUMAN Haloacid dehalogenase-like hydrolase domain-containing protein 3  
OS=Homo sapiens GN=HDHD3 PE=1 SV=1

MAHRLQIRLLTWDVKDTLLRLRHLGEAYATKARAHGLEVEPSALEQGFRQAYRAQSHSF  
PNYGLSHGLTSRQWWLDVVLQTFHLAGVQDAQAVAPIAEQLYKDFSHPCTWQVLDGAEDT  
LRECRTRGLRLAVISNFDRLLEGILGGLGLREHFDVLTSEAAGWPKPDPRIFQEALRLA  
HMEPVVAAHVGDNYLCDYQGPRAVGMHSFLVVGPAQALDPVVRDSVPKEHILPSLAHLLPA  
LDCLEGSTPGL

>sp|P22557|HEMO\_HUMAN 5-aminolevulinate synthase, erythroid-specific, mitochondrial  
OS=Homo sapiens GN=ALAS2 PE=1 SV=2

MVTAAMLLQCCPVLARGPTSLLGKVVKTHQFLFGIGRCPILATQGPNCQIHLKATKAGG  
DSPSWAKGHCPFMSELQDGKSKIVQKAPEVQEDVKAFKTDLPSSLVSVSLRKPFSGPQ  
EQEQISGKVTHLIQNNMPGNYVFSYDQFFRDKIMEKKQDHTYRVFKTVNRWADAYPFAQH  
FSEASVASKDVSVCNDYLGMSRHPQVLQATQETLQRHGAGAGGTRNISGTSKFHVELE  
QELAEHLQKDSALLFSSCFVANDSTLFTLAKILPGCEIYSDAGNHASMIQGIRNSGAAKF  
VFRHNDPDHLKKLLEKSNPKIPKIVAFETVHSMGAIKPLEELCDVSHQYGALTFVDEVH  
AVGLYSGRGAGIGERDGMHKIDIISGTLGKAFGCVGGYIASTRDLVDMVRSYAAGFIFT  
TSLPPMVLSGALESVRLKGEQGALRRHQNRNVKHMRLMDRGLPVIPCPSHIPIRV  
GNAALNSKLCDLLLSKHGIYVQAINYPTVPRGEELLRLAPSPHHSPQMMEFVEKLLLAW  
TAVGLPLQDVSVAACNFCRRPVHFELMSEWERSYFGNMGPPYVTTYA

>sp|P10746|HEM4\_HUMAN Uroporphyrinogen-III synthase OS=Homo sapiens GN=UROS PE=1 SV=1

MKVLLLKDAKEDDCGQDPYIRELGLYLEATLIPVLSFEFLSLPSFSEKLSHPEDYGGI  
FTSPRAVEAAELCLEQNNKTEVWERSLKEKWNKSVYVGNATASLVSKIGLDTEGETCG  
NAEKLAEYICRESSALPLLPFCGNLKEILPKALKDKGIAMESITVYQTVAHPGIQGNL  
NSYYSQQGVPASITFFSPSGLTYSLKHIQELSGDNIDQIKFAAIGPTTARALAAQGLPVS  
CTAESPTQALATGIRKALQPHGCC

>sp|P05981|HEPS\_HUMAN Serine protease hepsin OS=Homo sapiens GN=HPN PE=1 SV=1

MAQKEGGRTVPCCSRPKVAALTAGTLLLLTAIGAASWAIVAVLLRSDQEPLYPVQVSSAD  
ARLMVFDKTEGTWRLLCSSRSNARVAGLSCEEMGFLRALTHSELDVRTAGANGTSGFFCV  
DEGRLPHTQRLLEVISVCDPCRGRFLAAICQDCGRRKLPVDRIVGGRDTSIGRWPWQVSL

RYDGAHLCCGSSLLSGDWVLTAAHCFPERNRVLSRWRVFAGAVAQASPHGLQLGVQAVVYH  
GGYLPFRDPNSEENSNDIALVHLSSPLPLTEYIQPVCLPAAGQALVDGKICTVTGWGNTQ  
YYGQQAGVLQEARVPIISNDVCNGADFYGNQIKPKMFCAGYPEGGIDACQGDSGGPFVCE  
DSISRTPRWRLCGIVSWGTCALAKQPGVYTKVSDFREWIFQAIKTHSEASGMVTQL

>sp|Q5TA89|HES5\_HUMAN Transcription factor HES-5 OS=Homo sapiens GN=HES5 PE=2 SV=1

MAPSTVAVELLSPEKNRLRKPVVEKMRRDRINSSIEQLKLLLEQEFARHQPNKLEKAD  
ILEMAVSYLKHSKAFVAAAGPKSLHQDYSEGYSWCLQEAVQFLTLLHAASDTQMKLLYHFQ  
RPPAAPAAPAKEPKAPGAAPPPALSAKATAAAAAAHQPACGLWRPW

>sp|P04233|HG2A\_HUMAN HLA class II histocompatibility antigen gamma chain OS=Homo sapiens  
GN=CD74 PE=1 SV=3

MHRRRSRSCREDQKPMDDQRDLLISNNEQLPMLGRRPGAPESKCSRGALYTGFSILVTLL  
LAGQATTAYFLYQQQGRDLKLTVTSQNLQLENLRMKLPKPPKPVSKMRMATPLLMQALPM  
GALPQGPMPNATKYGNMTEDHVMHLLQNADPLKVYPPLKGSFPENLRHLKNTMETIDWKV  
FESWMHHWLLFEMSRHSLEQKPTDAPPKVLTKCQEEVSHIPAVHPGSFRPKCDENGYLP  
LQCYGSIGYCWCVPNGTEVPNTRSRGHHNCSELELEDPSGLGVTKQDLGPVPM

>sp|P49773|HINT1\_HUMAN Histidine triad nucleotide-binding protein 1 OS=Homo sapiens  
GN=HINT1 PE=1 SV=2

MADEIAKAQVARPGGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHI  
SQISVAEDDDDESLLGHLMIIVGKKCAADLGLNKGYRMVVNEGSDGGQSVYHVHLHVLGGRQ  
MHWPPG

>sp|000291|HIP1\_HUMAN Huntingtin-interacting protein 1 OS=Homo sapiens GN=HIP1 PE=1 SV=5

MDRMASMKQVPNPLPKVLSRRGVGAGLEAAERESFERTQTVSINKAINTQEVAVKEKHA  
RTCILGTHHEKGAQTFWSVVNRLPLSSNAVLCKWFCHVFHKLLRDGHPNVLKDSLRYRNE  
LSDMSRMWGHLESGYGQLCSIYLLKLRKMEYHTKNPRFPGNLQMSDRQLDEAGESDVNN  
FFQLTVEMFDYLECELNLFQTVFNSLDMSRSVSVTAAGQCRLAPLIQVILDCSHLYDYTV  
KLLFKLHSCLPADTLQGHRDRFMEQFTKLKDLFYRSSNLQYFKRLIQIPQLPENPPNPLR  
ASALSEHISPVVVIPAEASSPDSEPVLEKDDLMDMDASQQNLFDNKFDDIFGSSFSSDPF  
NFNSQNGVNKDEKDLIERLYREISGLKAQLENMKTESQRVVLQLKGHVSEADLAEQQ  
HLRQQAADDCEFLRAELDELRRQREDTEKAQRSLSEIERKAQANEQRYSKLKEYSELVQ  
NHADLLRKNAEVTQVSMARQAQVDLEREKKEEDSLERISDQGQRKTEQQLVLESCLKQ  
ELATSQRELQVLQGSLETSQAQSEANWAAEFAELEKERDSLVSAAHREEELSALRKELQD  
TQLKLASTEESMCQLAKDQRKMLLVGSRKAAEQVIQDALNQLEEPPLISCAGSADHLLST  
VTSISSCIEQLEKSWSQYLACPEDISGLLHSITLLAHLTSDAIAHGATTCLRAPPEPADS  
LTEACKQYGRETLAYLASLEEEGSLENADSTAMRNCLSKIKAIGEELLPRGLDIKQEELG  
DLVDKEMAATSAAIETATARIEEMLSKSRAGDTGVKLEVNERILGCCTSLMQAIQVLIVA  
SKDLQREIVESGRGTASPKEFYAKNSRWTEGLISASKAVGWGATVMVDAADLVVQGRGKF  
EELMVCSEHIAASTAQLVAASKVKADKSPNLAQLQQASRGVNQATAGVVASTISGKSQI  
EETDNMDFSSMTLTQIKRQEMDSQVRVLELENELQKERQKLGLRKKHYELAGVAEGWEE  
GTEASPPTLQEVVTEKE

>sp|P54198|HIRA\_HUMAN Protein HIRA OS=Homo sapiens GN=HIRA PE=1 SV=2

MKLLKPTWVNHNGKPIFSVDIHPDGTKFATGGGQDQSGKVVIWNMSPVLQEDDEKDENIP  
KMLCQMDNHLACVNCVRWSNSGMYLASGGDDKLIMVWKRTYIGPSTVFGSSGKLANVEQ  
WRCVSIILRNHSGDVMVDAWSPHDAWLASCSVDNTTVIWNVAVKFEILATLRGHSLVKGL  
TWDPVGKYIASQADDRSLKVWRTLDWQLETSITKPFDECGGTTHVLRLSWSPDGHYLVSA

HAMNNSGPTAQIIEREGWKTNDMFVGHKAVTVVKFNPKIFKKKQKNGSSAKPSCPYCCC  
AVGSKDRSLSVWLTCLKRPLVVIHELFDKSIDISWTLNGLGILVCSMDGSVAFLDFSQD  
ELGDPLSEEEKSRIHQSTYGKSLAIMTEAQLSTAVIENPEMLKYQRRQQQQQLDQKSAAT  
REMGSATSVAGVNGESLEDIRKNLLKKQVETRTADGRRRITPLCIAQLDTGDFSTAFFN  
SIPLSGSLAGTMLSSHSSPQLPLDSSTPNSFGASKPCTEPVVAASARPAGDSVNKDSMN  
ATSTPAALSPSVLTPSKIEMKAFDSRFTERSKATPGAPALTSMTPTAVERLKEQNLVK  
ELRPRDLLESSSDSEKVP LAKASSLSKRKLELEVETVEKKKKGRPRKDSRLMPVSLSVQ  
SPAALTAEKEAMCLSAPALALKLPIPSQRAFTLQVSSDPSMYIEVENEVTVVGGVKLSR  
LKCNRGKEWETVLTSRILTAAGSCDVVCACEKRMLSVFSTCGRRLLSPILLPSPISTL  
HCTGSYVMALTAATLSVWDVHRQV VVVKEESLHSILAGSDMTVSQILLTQHGI PVMNLS  
DGKAYCFNP SLSTWNLVSDKQDSLACADFRSSLPSQDAMLCSGPLAIIQGRTSNSGRQA  
ARLFSVPHVVQETT LAYLENQVAAAATLQSSHEYRHVLLVYARYLVNEGFEYRLREICK  
DLLGPVHYSTGSQWESTVVGLRKRELLKELLPVIGQNLRFQRLFTECQEQLDILRDK

>sp|Q99678|GPR20\_HUMAN G-protein coupled receptor 20 OS=Homo sapiens GN=GPR20 PE=1 SV=2

MPSVSPAGPSAGAVPNATAVTTRTNASGLEVPLFHLFARLDEELHGTFFGLWLALMAVH  
GAIFLAGLVNLGLALYVFCCTRAKTPSVIYTINLVVTDLLVGLSLPTRFAVYYGARGCL  
RCAPFHVLYGFLNMHCSILFLTICVDRYLAIVRPEGSRRCRQPACARAVCAFVWLAAGA  
VTLVLGVTGSRPCCRVFALT VLEFLLPLLVISVFTGRIMCALSRLPGLLHQGRQRRVRAM  
QLLLTVLIIFLVCFTPFHARQVAVALWPDMPHHTSLVVYHVAVTLSSLNSCMDPIVYCFV  
TSGFQATVRGLFGQHGEREPSSGDVVS MHRSSKSGSRHHILSAGPHALTQALANGPEA

>sp|000155|GPR25\_HUMAN Probable G-protein coupled receptor 25 OS=Homo sapiens GN=GPR25  
PE=1 SV=2

MAPTEPWSPSGSAPWDYSGLDGLEEELCPAGDLPYGYVYIPALYLAAFAVGLLGNAFV  
VWLLAGRRGPRLVDTFVLHLAAADLGFVLTLPWAAAAALGGRWPFGDGLCKLSSFALA  
GTRCAGALLLAGMSVDRYLAVVKLEEARPLRTPRCALASCCGVWAVALLAGLPSLVYRGL  
QPLPGGQDSQCGEESHAFQGLSLLLLLTFVLPLVVTLCFCYCRISRLRRPPHVGRARR  
NSLRIFI A IESTFVGSWLPFSALRAVFHLARLGALPLPCPLLLALRWGLTIATCLAFVNS  
CANPLIYLLLD RSFRARALDGACGRTGRLARRISSASSLSRDDSSVFRCAQAANTASAS  
W

>sp|Q9BZJ7|GPR62\_HUMAN Probable G-protein coupled receptor 62 OS=Homo sapiens GN=GPR62  
PE=2 SV=2

MANSTGLNASEVAGSLGLILAAVVEVGALLGNGALLVVVLRTPGLRDALYLAHLCVVDLL  
AAASIMPLGLLAAPP PGLGRVRLGPAPCRAARFLSAALLPACTLGVAALGLARYRLIVHP  
LRPGSRPPPVLVLTAVWAAAGLLGALSLLGTPPAPPAPARCSVLAGGLGPFRPLWALLA  
FALPALLLLGAYGGIFVVARRAALRPPRPARGSRLHSDSLDSRLSILPPLRPRLPGGKAA  
LAPALAVGQFAACWLPYGCACLA PAARAAEAEAAVTWVAYSFAAHPFLYGLLQRPVRLA  
LGRLSRRALPGPVRACTPQAWHPRALLQCLQRPPEGPAVGPSEAPEQTPELAGGRSPAYQ  
GPPESSLS

>sp|095800|GPR75\_HUMAN Probable G-protein coupled receptor 75 OS=Homo sapiens GN=GPR75  
PE=1 SV=1

MNSTGHLQDAPNATSLHVPHSQEGNSTSLQEGLQDLIHTATLVTCTFLLAVIFCLGSYGN  
FIVFLSFFDPAFRKFRTNFD M ILNLSFCDLFICGVTAPMFTFVLFFSSASSIPDAFCFT  
FHLTSSGFIIMSLKTVAVIALHRLRMVLGKQPNRTASFPCTVLLTLLLWATSFTLATLAT  
LKTSKSHLCLPMSSLIAGKGKAILSLYVVDFTFCVAVVSYSYIMIAQTLRKNAQVRKCPP

VITVDASRPQPFMGVPVQGGDPIQCAMPALYRNQNYNKLQHVQTRGYTKSPNQLVTPAA  
SRLQLVSAINLSTAKDSKAVVTCV IIVLSVLVCCLPLGISLVQVVLSSNGSFILYQFELF  
GFTLIFFKSGLNPFIIYSRNSAGLRRKVLWCLQYIGLGFCCCKQKTRLRAMGKGNLEVNRN  
KSSHETNSAYMLSPKPQKKFVDQACGPHSKESMVSPKISAGHQHCGQSSSTPINTRIE  
PYYSIYNSSPSQEESSPCNLQPVNSFGFANSYIAMHYHTNDLVQEYDSTSAKQIPVPSV

>sp|Q96P67|GPR82\_HUMAN Probable G-protein coupled receptor 82 OS=Homo sapiens GN=GPR82  
PE=2 SV=1

MNNNTTCIQPSMISSMALPIIYILLCIVGVFGNTLSQWIFLTIGKKTSTHIYLSHLVTA  
NLLVCSAMPFMSIYFLKGFQWEYQSAQCRVNVFLGTLSMHASMFVSLILSWIAISRYAT  
LMQKSSQETTSCYEKIFYGHLLKKFRQPNFARKLCIYIWGVVLGIIIPVTVYYSVIEAT  
EGEESLCYNRMELGAMISQIAGLIGTTFIGFSFLVLTSYYSFVSHLRKIRTCTSIM EK  
DLTYSSVKRHLVLIQILLIVCFLPYSIFKPIFYVLHQDNCQQNLNYLIETKNILTCLASA  
RSSTDPIIFLLDKTFKKTLYNLFTKSNSAHMQSYG

>sp|P18283|GPX2\_HUMAN Glutathione peroxidase 2 OS=Homo sapiens GN=GPX2 PE=1 SV=3

MAFIKSFYDLAISLDGEKVDNTRFRGRAVLIENVASLUGTTTRDFTQLNELQCRFP RR  
LVVLGFPCNQFGHQENCQNEEILNSLKYVRPGGGYQPTFTLVQKCEVNGQNEHPVFAYLK  
DKLPYPYDDPFSLMTPDKLIIWSPVRRSDVAWNFEKFLIGPEGEPPRRYSRTFPTINIEP  
DIKRLLKVAI

>sp|P22352|GPX3\_HUMAN Glutathione peroxidase 3 OS=Homo sapiens GN=GPX3 PE=1 SV=2

MARLLQASCLLSLLAGFVSQSRGQEKSKMDCHGGISGTIYEYGALTIDGEEYIPFKQYA  
GKYVLVFNVASYUGLTGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLK  
YVRPGGGFVPNFQLFEKGDVNGEKEQKFYTFKNSCPPTSELLGTSDRLFWEPMKVHDIR  
WNFEKFLVGPDGIPIMRWHHRTTVSNVKMDILSYMRRQAALGVKRK

>sp|P36969|GPX4\_HUMAN Phospholipid hydroperoxide glutathione peroxidase, mitochondrial  
OS=Homo sapiens GN=GPX4 PE=1 SV=3

MSLGRLCRLKLPALLCGALAAPGLAGTMCASRDDWRCARSMHEFSAKDIDGHMVNLDKYR  
GFVCIVTNVASUGKTEVNYTQLVDLHARYAECGLRILAFPCNQFGKQEPGSNEEIKEFA  
AGYNVKFDMFSKICVNGDDAHLPLWKWMKIQPKGKGILGNAIKWNFTKFLIDKNGCVVKRY  
GPMEEPLVIEKDLPHYF

>sp|Q96QA5|GSDMA\_HUMAN Gasdermin-A OS=Homo sapiens GN=GSDMA PE=1 SV=4

MTMFENVTRALARQLNPRGDLTPLDSLIDFKRFHPFCLVLRKRKSTLFWGARYVRTDYTL  
LDVLEPGSSPSDPTDTGNFGFKNMLDTRVEGDVDVPKTVKVGKTAGLSQNSTLEVQTL SV  
APKALETVQERKLAADHPFLKEMQDQGENLYVMEVVETVQEVTLERAGKAEACFSLPFF  
APLGLQGSINHKEAVTIPKGCVLAFRVRQLMVKGKDEWDIPHICNDNMQTFPPGEKSGEE  
KVILIQASDVGDVHEGFRTLKEEVQRETQQVEKLSRVGQSSLLSSLKLLGKKKELQDLE  
LALEGALDKGHEVTLEALPKDVLLSKEAVGAILYFVGALTELSEAQQKLLVKSMEKKILP  
VQLKLVESTMEQNFLLDKEGVFPLQPELLSSLGDEELTLTEALVGLSGLEVQRSGPQYMW  
DPDTLPRLCALYAGLSLLQQLTKAS

>sp|Q9Y2Q3|GSTK1\_HUMAN Glutathione S-transferase kappa 1 OS=Homo sapiens GN=GSTK1 PE=1  
SV=3

MGPLPRTVELFYDVLSPYSWLGFELCRYQNIWNINLQLRPSLITGIMKDSGNKPPGLLP  
RKGLYMANDLKLLRHHLQIPIHFPKDFLSVMLEKGSLSAMRFLTAVNLEHPPEMLEKASRE  
LWMRVWSRNEDITEPQSILAAAEKAGMSAEQAQGLLEKIIATPKVKNQLKETTEAACRYGA  
FGLPITVAHVDGQTHMLFGSDRMELLAHLLGEKWMGPIPPAVNARL



>sp|P28161|GSTM2\_HUMAN Glutathione S-transferase Mu 2 OS=Homo sapiens GN=GSTM2 PE=1 SV=2  
MPMTLGYNIRGLAHSIRLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNL  
PYLIDGTHKITQSNAILRYIARKHNLCGESEKEQIREDILENQFMDSRMLAKLCYDPDF  
EKLKPEYLQALPEMLKLYSQFLGKQPWFLGDKITFVDFIAYDVLERNQVFEPSCLDAPFN  
LKDFISRFEGLEKISAYMKSSRFLPRPVFTKMAVWGNK

>sp|P78417|GSTO1\_HUMAN Glutathione S-transferase omega-1 OS=Homo sapiens GN=GSTO1 PE=1  
SV=2

MSGESARSLGKGSAPPGVPPEGSIRIYSMRFCPFAERTRLVLKAKGIRHEVININLKNKP  
EWFKKNPFLGVPVLENSQGGLIYESAITCEYLDEAYPGKLLPDDPYEKACQKMILELF  
SKVPSLVGSFIRSQNKEDYAGLKEEFRKEFTKLEEVLTNKKTTFFGGNSISMIDYLIWPW  
FERLEAMKLNEDVHTPKLKLWMAAMKEDPTVSALLTSEKDWQGFLELYLQNSPEACDYG  
L

>sp|Q8IYK4|GT252\_HUMAN Procollagen galactosyltransferase 2 OS=Homo sapiens GN=COLGALT2  
PE=1 SV=1

MAARPAATLAWSLLLSSALLREGCRARFVAERDSEDDGEEPVVFPESPLQSPTVLVAVL  
ARNAAHTLPHFLGCLERLDYPKSRMAIWAATDHNVDNTTEIFREWLKNVQRLYHYVEWRP  
MDEPESYPDEIGPKHWPTSRFAHVMKLRQAALRTAREKWSYILFIDVDNFLTNPQTLNL  
LIAENKTIVAPMLESRLYSNFWCGITPKGFYKRTPDYVQIREWKRTGCFVPMVHSTFL  
IDLRKEASDKLTFYPPHQDYTWTFDDIIVFAFSSRQAGIQMYLCNREHYGYLPIPLKPHQ  
TLQEDIENLIHVQIEAMIDRPPMEPSQYVSVVPKYPDKMGFDEIFMINLKRRKDRDRML  
RTLQEIEIEVKIVEAVDGKALNTSQLKALNIEMLPGYRDPYSSRPLTRGEIGCFLSHYSV  
WKEVIDRELEKTLVIEDDVRFEHQFKKKLMKLMNIDQAQLDWELIYIGRKMVKEPEK  
AVPNVANLVEADYSYWTLGYSISLEGAQKLVGANPFGKMLPVDEFLPVMYNKHPVAEYKE  
YYESRDLKAFAEPLLIYPHTYTGQPGYLSDTETSTIWDNETVATDWRTHAWKSRKQSR  
IYSNAKNTALPPPTSLDTVPSRDEL

>sp|Q9BX10|GTPB2\_HUMAN GTP-binding protein 2 OS=Homo sapiens GN=GTPBP2 PE=1 SV=1

MDSRVSELFGGCCRPGGPVGGLKARGAGSSSGCGPKGKKKNGRNRGGKANNPPYLP  
PEAEDGNIEYKLLVNPSQYRFEHLVTQMKWRLQEGRGEAVYQIGVEDNGLLVGLAEEM  
RASLKTLRMAEKVGADITVLREREVDYDSMPRKITEVLVRKVPDNQQFLDLRVAVLGN  
VDSGKSTLLGVLTLQGELDNGRGRARLNLFRHLHEIQSGRTSSISFEILGFNSKGEVVNYS  
DSRTAEIEICSSSKMITFIDLAGHHKYLHTTIFGLTSYCPDCALLVSANTGIAGTTREH  
LGLALALKVPFFIVVSKIDLCAKTTVERTVRQLERVLKQPGCHKVPMVLTSEDDAVTAAQ  
QFAQSPNVTPIFTLSSVSGESDLLKVFNLPLPLTNSKEQEELMQQLTEFQVDEIYTV  
EVGTVVGGTLSSGICREGDQLVVGPTDDGCFLELRVCSIQRNRSACRVLRAGQAATLALG  
DFDRALLRKGMVMVSPENPTICSVFAEIVLLFHATTFRRGFQVTVHVGNVQRQTAVVEK  
IHAKDKLRTGEKAVVRFRFLKHPEYLKVGAKLLFREGVTKGIGHVTDVQAITAGEAQANM  
GF

>sp|043824|GTPB6\_HUMAN Putative GTP-binding protein 6 OS=Homo sapiens GN=GTPBP6 PE=2 SV=3

MWALRAAVRPLRLSRVGRGRSAPRAAAPSCPARALAAVGRRSPGNLEGPWGGGRGLRAD  
GGRSRTGDDEEPEADENAEELLRGEPLLPAGTQRVCLVHPDVKGPGKSQMTRAEWQ  
VAEATALVHTLDGWSVVQTMVVSTKTPDRKLIFGKGNFEHLTEKIRGSPDVTVCVFLNVER  
MAAPTCKELEAAWGVEVDFRFTVVLHIFRCNARTKEARLQVALAEMPLHRSNLKRDVAHL  
YRGVGSRYIMGSGESFMQLQQRLLREKEAKIRKALDRLRKKRHLLRRQTRREFPVISVV  
GYTNCGKTTLIKALTGDAAIQPRDQLFATLDVTAHAGTLPSRMTVLYVDTIGFLSQLPHG

LIESFSATLEDVAHSDLILHVRDVSHPEAELQKCSVLSTLRGLQLPAPLLDSMVEVHNKV  
DLVPGYSPTEPNVVPVSALRGHGLQELKAELDAAVLKATGRQILTLRVRLAGAQLSWLYK  
EATVQEVDVIPEDGAADVRVVIISNSAYGKFRKLFPG

>sp|Q8N3Z3|GTPB8\_HUMAN GTP-binding protein 8 OS=Homo sapiens GN=GTPBP8 PE=2 SV=1

MAAPGLRLGAGRLFEMPAVLERLSRYNSTSQAFAEVLRLPKQQLRKLLYPLQEVERFLAP  
YGRQDLHLRIFDPSPEDIARADNIFTATERNRIDYVSSAVRIDHAPDLRPEVCFIGRSN  
VGKSSLIKALFSLAPEVEVRVSKKPGHTKKMNFFKVGKHFTVVDMPGYGFRAPEDFVDMV  
ETYLKERRNLKRTFLLVDSVVGIIQKTDNIAIEMCEEALPYVIVLTKIDKSSKGHLLKQV  
LQIQKFVNMTKQGCFFQLFPVSAVTFSGIHLRCFIASVTGSLD

>sp|A4D1E9|GTPBA\_HUMAN GTP-binding protein 10 OS=Homo sapiens GN=GTPBP10 PE=1 SV=1

MVHCSCVLFRKYGNFIDKLRLFTRGGSGMGYPRLGGEGGKGGDVVWVAQNRMTLKQLKD  
RYPRKRFVAGVGANSKISALKGSKGKDCEIPVPVGISVTDENGKIIIGELNKENDRILVAQ  
GGLGGKLLTNFLPLKGQKRIIHLDLKLIADVGLVGFNPAGKSSLLSCVSHAKPAIADYAF  
TTLKPELGKIMYSDFKQISVADLPGLIEGAHMNKGMGHFKLKHIERTRQLLFVVDISGFQ  
LSSHTQYRTAFETIIILLTKEELYKEELQTKPALLAVNKMDLPDAQDKFHELMSQLQNPK  
DFLHLFEKNMIPERTVEFQHIIPISAVTGEGIEELKNCIRKSLDEQANQENDALHKKQLL  
NLWISDTMSSTEPPSKHAVTTSKMDII

>sp|O95528|GTR10\_HUMAN Solute carrier family 2, facilitated glucose transporter member 10  
OS=Homo sapiens GN=SLC2A10 PE=1 SV=2

MGHSPVPLPCASVSLGGLTFGYELAVISGALLPLQLDFGLSCLEQEFLVGSLLLGALL  
ASLVGGFLIDCYGRKQAILGSNLVLLAGSLTLGLAGSLAWLVGRAVVGFAISLSSMACC  
IYVSELVGPRQRGVLVSLYEAGITVGILLSYALNYALAGTPWGWRHMFGWATAPAVLQSL  
SLLFLPAGTDEATHKDLIPLQGGEAPKLGPRPRYSFLDLFRARDNMRGRTTVGLGLVL  
FQQLTGQPNVLCYASTIFSSVGFHGGSSAVLASVGLGAVKVAATLTAMGLVDRAGRALL  
LAGCALMALSVSGIGLVSFAPMDSGPSCLAVPNATGQTGLPGDSGLLQDSSLPIPRTN  
EDQREPILSTAKTKPHPRSGDPSAPPRALSSALPGPPLPARGHALLRWTALLCLMVFV  
SAFSFGFGPVTWLVLSEIYPVEIRGRAFAFCNSFNWAANLFISSLFDLIGTIGLSWTF  
LYGLTAVLGLGFIYLFVPETKGQSLAEIDQQFQKRRFTLSFGHRQNSTGIPYSRIEISAA  
S

>sp|Q9BYW1|GTR11\_HUMAN Solute carrier family 2, facilitated glucose transporter member 11  
OS=Homo sapiens GN=SLC2A11 PE=2 SV=1

MRALRRLIQGRILLLTICAAGIGGTFQFGYNLSIINAPTLHIQEFTNETWQARTGEPLPD  
HLVLLMWSLIVSLYPLGGLFGALLAGPLAITLGRKKSLLVNNIFVVSAAILFGFSRKAGS  
FEMIMLGRLLVGNAGVSMNIQPMYLGESAPKELRGAVAMSSAIFTALGIVMGQVVLRE  
LLGGPQAWPLLLASCLVPGALQLASLPLLPESPRYLLIDCGDTEACLAALRRLRGSGDLA  
GELEEEEEERAACQGCRRARPWELFQHRALRRQVTSLVVLGSAMELCGNDVYAYASSVF  
RKAGVPEAKIQYAIIGTGSCCELLTAVVSCVVIERVGRRVLLIGGYSLMTCWGSIFTVALC  
LQSSFPWTLYLAMACIFAFILSFGIGPAGVTGILATELFDQMARPAACMVCALMWIMLI  
LVGLGFPFIMEALSHFLYVPFLGVCVCGAIYTGFLPETKGKTFQEISKELHRLNFPRA  
QGPTWRSLEVIQSTEL

>sp|Q8TD20|GTR12\_HUMAN Solute carrier family 2, facilitated glucose transporter member 12  
OS=Homo sapiens GN=SLC2A12 PE=2 SV=1

MVPVENTEGPSLLNQKGTAVETEGSGSRHPPWARGCGMFTFLSSVTAAVSGLLVGYELGI  
ISGALLQIKTLLALSCEQEMVSSLVIGALLASLTGGVLIDRYGRRTAIILSSCLLGLG

SLVLILSLSYTVLIVGRIAIGVSISSSIATCVYIAEIAPQHRRGLLVSLNELMIVIGIL  
SAYISNYAFANVFHGWKYMFGGLVIPLGVLQAIAMYFLPPSPRFLVMKGQEGAASKVLGRL  
RALSDTTEELTVIKSSLKDEYQYSFWDLFRSKDNMRTRIMIGLTLVFFVQITGQPNILFY  
ASTVLKSVGFQSNAAASLASTGVGVVKVISTIPATLLVDHVGSKTFLCIGSSVMAASLVT  
MGIVNLNIHMNFTHICRSHNSINQSLDESVIYGPGNLSTNNNTLRDHFKGISHSRSSL  
PLRNDVDKRGETTSASLLNAGLSHTEYQIVTDPGDVPAFLKWLASLLVYVAAFSIGLG  
PMPWLVLSEIFPGGIRGRAMALTSSMNWGINLLISLTFLTVDLIGLPWVCFIYTIMSLA  
SLLFVVMFIPETKGCSELEISMELAKVNYVKNNICFMSHHQEELVPKQPQKRKPQEQLLE  
CNKLCGRGQSRQLSPET

>sp|P11166|GTR1\_HUMAN Solute carrier family 2, facilitated glucose transporter member 1  
OS=Homo sapiens GN=SLC2A1 PE=1 SV=2

MEPSSKKLTGRLMLAVGGAVLGSQFGYNTGVINAPQKVIEEFYNQTVWHRYGESILPTT  
LTTLSLSVAIFSVGGMIGSFSVGLFVNRFGRNRNSMLMMNLLAFVSAVLMGFSKLGKSFE  
MLILGRFIIGVYCGLTGTFVPMYVGEVSPTALRGALGTLHQLGIVVGILIAQVFGLD  
SIMGNKDLWPLLLSIIIFIPALLQCIVLPFCPEPRFLLINRNEENRAKSVLKKLRGTADV  
THDLQEMKEESRQMMREKKVTILELFRSPAYRQPILIAVVLQLSQQLSGINAVFYYS  
TIFEKAGVQQPVYATIGSGIVNTAFTVVSFLVVERAGRRTLHLIGLAGMAGCAILMT  
IALALLEQLPWMSYLSIVAIFGFVAFFEVGPGPIPWFIWAELFSQGPRAAIAVAGFS  
NWTSNFIVGMCQYVEQLCGPYVFIIFTVLLVLFIFTYFKVPETKGRTFDEIASGFR  
QGGASQSDKTPEELFHPLGADSQV

>sp|P14672|GTR4\_HUMAN Solute carrier family 2, facilitated glucose transporter member 4  
OS=Homo sapiens GN=SLC2A4 PE=1 SV=1

MPSGFQQIGSEDEPPQQRVTGTLVLAVFSAVLGSLQFGYNIGVINAPQKVIEQSYNETW  
LGRQGPEGPSSIPPGTLTTLWALSVAIFSVGGMISSFLIGIISQWLGRKRAMLVNNLAV  
LGGSLMGLANAAASYEMLILGRFLIGAYSGLTSGLVPMYVGEIAPTHLRGALGTNLQ  
LAIVIGILIAQVLGLESLLGTASLWPLLLGLTVLPALLQLVLLPFCPESPRYLYIIQ  
NLEGPARKSLKRLTGWADVSGVLAELKDEKRKLERERPLSLLQLLGSRTHRQPLIIA  
VVLQLSQQLSGINAVFYYSIFETAGVGQPAYATIGAGVVNTVFTLVSVLLVERAGR  
RTLHLLGLAGMCGCAILMTVALLLERVPAWSYVSIVAIFGFVAFFEIGPGPIPWFIWA  
ELFSQGPRAAMAVAGFSNWTSNFIIGMGFYVAEAMGPYVFLFAVLLLGFFIFTFLR  
VPETRGRTFDQISAAFHRTPSLLEQEVKPPSTELEYLGPDEND

>sp|P16104|H2AX\_HUMAN Histone H2AX OS=Homo sapiens GN=H2AFX PE=1 SV=2

MSGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLA  
AVLEYLTAEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLGGVTIAQGGVLP  
NIQAVLLPKKTSATVGPKAPSGGKKATQASQEY

>sp|Q5QNW6|H2B2F\_HUMAN Histone H2B type 2-F OS=Homo sapiens GN=HIST2H2BF PE=1 SV=3

MPDPAKSAPAPKKGSKKAVTKVQKKDGKKRKRKRKESYSYVYKVLKQVHPDTGI  
SSKAMGIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLLP  
GELAKHAVSEGTKAVTKYTSSK

>sp|Q8N257|H2B3B\_HUMAN Histone H2B type 3-B OS=Homo sapiens GN=HIST3H2BB PE=1 SV=3

MPDPSKSAPAPKKGSKKAVTKAQQKDGKKRKRGRKESYSYVYKVLKQVHPDTGI  
SSKAMGIMNSFVNDIFERIASEASRLAHYNKRSTITSREVQTAVRLLLP  
GELAKHAVSEGTKAVTKYTSSK

>sp|P68431|H31\_HUMAN Histone H3.1 OS=Homo sapiens GN=HIST1H3A PE=1 SV=2

MARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQKSTE  
LLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKRVTI  
MPKDIQLARRIRGERA

>sp|P84243|H33\_HUMAN Histone H3.3 OS=Homo sapiens GN=H3F3A PE=1 SV=2

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTE  
LLIRKLPFQRLVREIAQDFKTDLRFQSAAGALQEASEAYLVGLFEDTNLCAIHAKRVTI  
MPKDIQLARRIRGERA

>sp|Q96CS2|HAUS1\_HUMAN HAUS augmin-like complex subunit 1 OS=Homo sapiens GN=HAUS1 PE=1  
SV=1

MEPQEERETQVAAWLKKIFGDHPIQYEVNPRTEILHHLSENRVRDRDVYLVIEDLKQ  
KASEYESEAKYLQDLLMESVNFSPANLSSTGSRYNALVDSAVALETKDTSLASFIPAVN  
DLTSDLFRTKSKSEEIKIELEKLEKNLTATLVLEKCLQEDVKKAELHLSTERAKVDNRRQ  
NMDFLKAKSEEFRTGRIKAAEEQLSARGMDASLSHQSLVALSEKLARLKQQTIPLKKKLES  
YDLMPNPSLAQVKIEEAKRELDSEAEELTRRVDMMEL

>sp|P02100|HBE\_HUMAN Hemoglobin subunit epsilon OS=Homo sapiens GN=HBE1 PE=1 SV=2

MVHFTAEKAAVTSLSKMNVEEAGGEALGRLLVVYPWTQRFFDSFGNLSSPSAILGNPK  
VKAHGKKVLTSGDAIKNMDNLKPAFAKSELHCDKLHVDPENFKLLGNVMVILATHFG  
KEFTPEVQAAWQKLVSAAIALAHKYH

>sp|P51610|HCFC1\_HUMAN Host cell factor 1 OS=Homo sapiens GN=HCFC1 PE=1 SV=2

MASAVSPANLPAVLLQPRWKRVVGWGGVPRPRHGRAVAIKELIVFGGGNEGIVDELH  
VYNTATNQWFIPAVRGDIPPGCAAYGFVCDGTRLLVFGGMVEYGKYSNDLYELQASRWEW  
KRLKAKTPKNGPPPCPRLGHSFSLVGNKCYLFGGLANDEDPKNNIPRYLNDLYILELRP  
GSGVVAWDIPITYGLPPPRESHTAVVYTEKDNKSKSLVIYGGMSGCRLGDLWTLDIDL  
TWNKPSLSGVAPLPRSLHSATTIGNKMYVFGGWVPLVMDLVKATHEKEWKCTNTLACLN  
LDTMAWETILMDTLEDNIPRARAGHCAVAINTRLYIWSGRDGYRKAWNQQVCKDLWYLE  
TEKPPPPARVQLVRANTSLEWSGAVATADSYLLQLQKYDIPATAATATSPTNPVPSV  
PANPPKSPAPAAAAPAVQPLTQVGITLLPQAAPAPPTTTTIQVLPVPGSSISVPTAART  
QGVPAVLKVTGPQATTGTPLVTMRPASQAGKAPVTVTSLPAGVRMVVPTQSAQGTVIGSS  
PQMSGMAALAAAAATQKIPSSAPTVLVSPAGTTIVKTMVTPGTTTLPATVKVASSPV  
MVSNPATRMKLKTAQAQVGTSSSATNTSTRPIITVHKSGTVTVAAQQAQVTTTVGGVTKT  
ITLVKSPISVPGGSALISNLGKMSVVQTKPVQTSVAVTGQASTGPVTQIIQTKGPLPAGT  
ILKLVTSADGKPTTIITTTQASGAGTKPTILGISSVSPSTTKPGTTTIKTIPTMSAIIQ  
AGATGVTSSPGIKSPITIIITTKVMTSGTGAPAKIITAVPKIATGHGQQGVTQVVLKGAPG  
QPGTILRTVPMGGVRLVTPVTVSAVKPAVTTLVVKGTTGVTTLGTVTGTVSTSLAGAGGH  
STSASLATPITTLGTIATLSSQVINPTAITVSAAQTTLTAAGGLTPTITMQPVSQPTQV  
TLITAPSGVEAQPVHDLPVSILASPTTEQPTATVTIADSGQGDVQPGTVTLVCSNPPCET  
HETGTTNTATTTTVANLGGHPQPTQVQFVCDRQEAAASLVTSTVGQNGSVVRVCSNPPC  
ETHETGTTNTATTATSNMAGQHGCNPPCETHETGTTNTATTAMSSVGANHQDARRACA  
AGTPAVIRISVATGALEAAQGSQSQCTRQTSATSTTMTVMATGAPCSAGPLLGPSMARE  
PGGRSPAFVQLAPLSSKVRLSSPSIKDLPAGRHSHAVSTAAMTRSSVGAGEPRMAPVCES  
LQGGSPSTTVTVALEALLCPSATVTQVCSNPPCETHETGTTNTATTSNAGSAQRVCSNP  
PCETHETGTTHTATTATSNGGTGQPEGGQPPAGRPCETHQTTSTGTTMSVSVGALLPDA  
TSSHRTVESGLEVAAPSVPQAGTALLAPFPTQRVCSNPPCETHETGTTHTATTVTSNM  
SSNQDPPPAASDQGEVESTQGDSVNITSSSAITTTVSSTLTRAVTTVTQSTPVGPSVPP

PEELQVSPGPRQQLPPRQLQSASTALMGESAIEVLSASQTPELPAAVDLSSTGEPSSGQE  
SAGSAVVATVVVQPPPTQSEVDQLSLPQELMAEAQAGTTTLMVTGLTPEELAVTAAAEA  
AAQAAATEEAQALAIQAVLQAAQQAQVMTGEPMDTSEAAATVTQAEGLHLSAEGQEGQAT  
TIPIVLTQQELAALVQQQLQEAQAQQHHHLPTALAPADSLNDPAIESNCLNELAGTV  
PSTVALLPSTATESLAPSNTFVAPQPVVVASPAKLQAAATLTVANGIESLGVKPDLP  
PSKAPMKKENQWFDVGVKGTNMVTHYFLPPDDAVPSDDDLGTVPDYNQLKKQELQPGT  
AYKFRVAGINACGRGPFSEISAFKTCLPGFPGAPCAIKISKSPDGAHLTWEPPSVTS  
GKIIEYSVYLAIQSSQAGGELKSSTPAQLAFMRVYCGSPSCLVQSSSLNAHIDYTTKPA  
II FRIAARNEKGYGPATQVRWLQETSKDSSGTPANKRPMSSPEMKSAPKSKADGQ

>sp|Q5T8I9|HENMT\_HUMAN Small RNA 2'-O-methyltransferase OS=Homo sapiens GN=HENMT1 PE=1 SV=1

MEENNLQCSSVVDGNFEEVPRETAIQFKPPLYRQRYQFVKNLVDQHEPKKVADLGC  
GDTSLRLLLKVNPCIELLVGVDINEDKLRWRGDSLAPFLGDFLKPRLNLTITLYHGS  
VVERDSRLLGFDLITCIELIEHLDSGLARFPEVVFGYLSPSMIVISTPNSEFNPLF  
PSVTLRDS DHKFETRMEFQTWALYVANRYDYSVEFTGVGEPPAGAENVGYCTQIGI  
FRKNGGKATESCLSEQHDQHVKAVFTTSYPSLQQERFFKLVLVNEVSQQVESLRV  
SHLPRRKEQAGERGDKPKDIGGSKAPVPCFPGVFTEVEKAKIENSPTPFCVGD  
KFFVPLQRLLAYPKLNRLCANEE MMRSVIADSIPLSSDGSAAVADLRNYFDEQFEF

>sp|Q9UBX0|HESX1\_HUMAN Homeobox expressed in ES cells 1 OS=Homo sapiens GN=HESX1 PE=1 SV=1

MSPSLQEGAQLGENKPSTCSFSIERILGLDQKKDCVPLMKPHRPWADTCSSSGK  
DGNLCLHVPNPPSGISFPSVVDHPMPEERASKYENYFSASERLSLKRELSWYR  
GRRPRTAFTQNQIEVLENVFRVNCYPGIDIREDLAQKLNLEEDRIQIWFQNRRA  
KLKRSHRESQFLMAKKNFNTNLE

>sp|Q9HCP6|HHATL\_HUMAN Protein-cysteine N-palmitoyltransferase HHAT-like protein OS=Homo sapiens GN=HHATL PE=2 SV=1

MGIKTALPAAELGLYSLVLSGALAYAGRGLLEASQDGAHRKAFRESVRPGWEYI  
GRKMDVADFEWVMWFTSFRNVIIFALSGHVLFAKLCTMVAPKLRSWYAVYGALAV  
MGTMGPWYLLLLGHCVGLYVASLLGQPWLCLGLGLASLASFMDPLISWQSGFVTG  
TFDLQEVLFHGGSSFTVLRCTSFALSCAHPDRHYSADLLKYNFYLPFFFFGPI  
MTFDRFHAQVSQVEPVRR EGELWHIRAQAGLSVVAIMAVDIFHFFYILTIPSD  
LKFNRLPDSALAGLAYSNLVYDWVKA AVLFGVVNTVACLDHLDPPQPPKCITALV  
VFAETHFDRGINDWLCKYVYNHIGGEHS AVIPELAATVATFAITTLWLGPCD  
IVYLWSFLNCFGLNFELWMQKLAEWGPLARIEASLS VQMSRRVRALFGAMNFWAI  
IMYNLVSLNSLKFTELVARLLLLTGFPQTLSILFVITYCGV QLVKERERTLA  
EEEEQKQDKEKPE

>sp|Q03014|HHEX\_HUMAN Hematopoietically-expressed homeobox protein HHEX OS=Homo sapiens GN=HHEX PE=1 SV=1

MQYPHPGPAAGAVGVPLYAPTPLLQPAHPTPFYIEDILGRGPAAPTAPPTLPS  
NSSFTSLVSPYRTPVYEPTPIHPAFSHHSAAALAAAYGPGGGGPLYFPFRTVNDY  
THALLRHDPLGKPLLWSPFLQRPLHKRGGQVRFSNDQTIELEKKFETQKYLSP  
PERKRLAKMLQLSERQVKTWQNRRAKWRRLKQENPQSNKKEELES LDSSCDQRQD  
LPSEQNKGASLDSSQCSPSP ASQEDLESEISESDQEV DIEGDKSYFNAG

>sp|Q9P298|HIG1B\_HUMAN HIG1 domain family member 1B OS=Homo sapiens GN=HIG1B PE=1 SV=1  
MSANRRWWVPDDEDCVSEKLLRKTRESPLVPIGLGGCLVVAAYRIYRLRSRGSTKMSIH

LIHTRVAAQACAVGAIMLGAVYTMYSYVVKRMAQDAGEK

>sp|Q58FF8|H90B2\_HUMAN Putative heat shock protein HSP 90-beta 2 OS=Homo sapiens  
GN=HSP90AB2P PE=1 SV=2

MPEEVHLGEKEVETFAFQAEIAQLMSLIINTFYSNKEIFLWELISNASDALDKIRYESLT  
DPSKLDGKELKIDIIPNTQEHTLTLVDTGIGMTKADLINNLGTIAKFQDQTEYLEEMQV  
KEVVEKHSQFLGYPIITLYLEKEREKEISDGKAEKEEKGKEEENKDDEEKPKIEDVGSDEE  
DDSGDKKKKKTKKIKEKYIDQEELNKTPIWTRNTEDITQEEYGEFYKSLTNDWKDHLAV  
RYFSVEEYVSRMKEIQKSIYYITGESKEQVANSFAVEQVWKRDSRVVYMTPEIDGYQLKE  
FDGKSLVSVTKEGLELPEDGEEKRMEERKAKFENLCKFMKETLDKKVEMVTVSNRLVSS  
SCCIVTSTYSWTANMEQIMKA

>sp|Q58FF6|H90B4\_HUMAN Putative heat shock protein HSP 90-beta 4 OS=Homo sapiens  
GN=HSP90AB4P PE=5 SV=1

MSLIINTFYSNKEIFLQELISNASDALDKIRYESLTDPSKLDGKELKIDIIPNPRECIL  
TLVNTGIGMTKADLINNLGAIKSGTEAFMEAFQSCAEISMIGQFGVGFYSAYLVAEKVA  
ITKHNDDEEQYSWSSAGSSFTLHVDHGEPIDRDTKVLHLKEDQTEYLEERWVKEVKKH  
PQFIGCLIAVYLEKEPEKEISDDEEEKGEKEEEDKDDKEKPKTEDVGSDEEDDTDKNNKK  
KTKKIKEKYTDREELNQTPIWTRNPDDITQEECGEFYKSLTSAWEDHLAVKQFPVEEQE  
ENEQLCVHHVWIMDSFDDLMEYVGFVREDKENNKKLDEVFSKISWLGIHEDSINWRHLS  
ELLWSHTFQSGDEMTSLSEYVSCMKEAQKSICDIIIGECKEQVANSFAVEQEWKKGFEVIY  
MSEPIDEYCVQQLKEFDGKSLSVTKEGLELPEDEEEKIMEESNVKFENLCRLMKEILD  
KKVERVTISSRLVSSPCRIVTSTYS

>sp|BOYJ81|HACD1\_HUMAN Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 1 OS=Homo sapiens  
GN=HACD1 PE=1 SV=1

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDRE  
APGERRRLGVLATAWLTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQT  
FALLEIVHCLIGIVPTSIVITGVQVSSRIFMVWLITHSIKPIQNEESVVLFLVAWTVTEI  
TRYSFYTFSLDHLPHYFIKWARYNFFIILYPVGVAGELLTIYAALPHVKKTGMFSIRLPN  
KYNVSFDYYYFLLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

>sp|Q9P035|HACD3\_HUMAN Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3 OS=Homo sapiens  
GN=HACD3 PE=1 SV=2

MENQVLTPHVYWAQRHRELYLRVELSDVQNPAISITENVLHFKAQGHGAKGDNVYEFHLE  
FLDLVKPEPVYKLTQRQVNITVQKKVSQWWERLTKQEKRPFLAPDFDRWLDESDAEMEL  
RAKEEERLNKLRLESEGGPETLTNLKGYLFMYNLVQFLGFSWIFVNLTVRFCILGKESF  
YDTFHTVADMMYFCQMLAVVETINAAIGVTTSPVLPSLIQLLGRNFILFIIFGTMEEMQN  
KAVVFFVLYLWSAIEIFRYSFYMLTCIDMDWKVLTWLRyTLWIPLYPLGCLAEAVSVIQS  
IPIFNETGRFSFTLPYPVKIKVRFSFFLQIYILIMIFLGLYINFRHLYKQRRRRYGQKKKK  
IH

>sp|Q9UJ83|HACL1\_HUMAN 2-hydroxyacyl-CoA lyase 1 OS=Homo sapiens GN=HACL1 PE=1 SV=2

MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQQLGIKYIGMRNE  
QAACYAASAIGYLTSRPGVCLVSGPGLIHALGGMANANMNCWPLLIGGSSERNQETMG  
AFQEFPQVEACRLYTKFSARPSSIEAIPFVIEKAVRSSIYGRPGACYVDIPADFVNLQVN  
VNSIKYMERCMSPPI SMAETS AVCTAASVIRNAKQPLLIIGKGAAYAHAEESIKKLVEQY  
KLPLPTPMGKGVPDNPYCVGAARSRALQFADVIVLFGARLNWILHFGLPPTYQPDVK  
FIQVDICAEELGNNVKPAVTLLGNIHAVTKQLLEELDKTPWQYPPEKWWKTLREKMKSN

EAASKELASKKSLPMNYTTFYHVQEQLPRDCFVSEAGANTMDIGRTVLQNYLPRHRLDA  
GTFGTMGVGLGFAIAAAVAKDRSPGQWIIICVEGDSAFGFSGMEVETICRYNLPIILLVV  
NNNGIYQGFDTDWKEMLFQDATAVPPMCLLPNSHYEQVMTAFGGKGYFVQTPEELQK  
SLRQSLADTTKPSLINIMIEPQATRKAAQDFHWLTRSNM

>sp|043593|HAIR\_HUMAN Lysine-specific demethylase hairless OS=Homo sapiens GN=HR PE=1  
SV=5

MESTPSFLKGTPTWEKTAPENGIVRQEPGSPPRDGLHHGPLCLGEPAPFWRGVLPDPSW  
LPPGFPQGPKDMLPLVEGEGPQNGERKVNWLGSKEGLRWKEAMLTHPLAFCGPACPPRCG  
PLMPEHSGGHLKSDPVAFRPWHPFLLETKILERAPFWVPTCLPPYLVSGLPPEHPCDWP  
LTPHPWVYSGGQPKVPSAFSLGSKGFYKDPSPRLAKEPLAAAEPGLFGLNSGGHLQRA  
GEAERPSLHQRDGEMGAGRQNPCPLFLGQPDTPVWTSWPACPPGLVHTLGNVWAGPGDG  
NLGYQLGPPATPRCPSPEPPVTQRGCCSSYPPTKGGGLGPGKCQEGLEGGASGASEPSE  
EVNKASGPRACPPSHHTKLKKTWLTRHSEQFECPRGCPEVEERPVARLRALKRAGSPEVQ  
GAMGSPAPKRPPDPFPGTAEQAGGWQEVDRDTSIGNKDVDSGQHDEQKGPQDGGASLQDP  
GLQDIPCLALPAKLAQCQSCAAGEGGGHACHSQVRRSPLGGELQQEEDTATNSSSEE  
GPGSGPDSRLSTGLAKHLLSGLGDRLCRLRREREALAWAQREGQGPVTEDESPGIPRCC  
SRCHHGLFNTHWRCPRCSHRLCVACGRVAGTGRAREKAGFQEQAEECTQEAGHAACSLM  
LTQFVSSQALAEELSTAMHQVWVKFDIRGHCPQADARVWAPGDAGQQKESTQKTPPTQP  
SCNGDTHRTKSIKEETPDSAETPAEDRAGRGLPCPSLCELLASTAVKLCLGHERIHMAF  
APVTPALPSDDRITNILDSEIIAQVVERKIQEKALGPGLRAGPGLRKGLPLSPVRPRLP  
PPGALLWLQEPQPCPRRGFHLFQEHWRQGPVLVSGIQRTLQGNLWGTEALGALGGVQA  
LSPLGPPQPSSLGSTTFWEGFSWPELRPKSDEGSVLLLHRALGDEDSRVENLAASLPLP  
EYCALHGKLNLAASLPPGLALRPLEPQLWAAYGVSPHRGHLGTKNLCEVADLVSILVHA  
DTPLPAWHRAQKDFLSGLDGEGLWSPGSQVSTVWHVFRAQDAQRIRFLQMVCPAGAGAL  
EPGAPGSCYLDAGLRRRLREEWGVSCWTLLQAPGEAVLPAGAPHQVQGLVSTVSTQHF  
LSPETSALSAQLCHQGPSLPPDCHLLYAQMDWAVFQAVKVAVGTLQEAK

>sp|Q13442|HAP28\_HUMAN 28 kDa heat- and acid-stable phosphoprotein OS=Homo sapiens  
GN=PDAP1 PE=1 SV=1

MPKGGKGGHKGRRARQYTSPEIDAQLQAEKQKAREEEEEQKEGGDGAAGDPKKEKSLDS  
DESEDEEDDYQQRKGVEGLIDIENPNRVAQTTKKVTQLDLDPKELSRREREEIEKQKA  
KERYMKMHLAKTEQAKADLARLAIIRKQREEAARKKEEERKAKDDATLSGKRMQSLSLN  
K

>sp|Q96MB7|HARB1\_HUMAN Putative nuclease HARB1 OS=Homo sapiens GN=HARB1 PE=1 SV=1

MAIPITVLDCDLLLYGRGHRTLDRFKLDDVTDEYLMSTYGFPRQFIYYLVELLGANLSRP  
TQRSRAISPETQVLAALGFYTSQSFQTRMGDAIGISQASMSRCVANVTEALVERASQFIR  
FPADEASIQALKDEFYGLAGMPGVMGVVDCIHVAIKAPNAEDLSYVNRKGLHSLNCLMVC  
DIRGTLMTVETNWPGLQDCAVLQSSSLSSQFEAGMHKDSWLLGDSSFFLRTWLMTPLHI  
PETPAEYRYNMAHSATHSVIEKTFRTLCSRFRCLDGSKGALQYSPEKSSHIILACCVLHN  
ISLEHGMDVWSSPMTGPMEQPPEEEYEHMESLDLEADRIRQELMLTHFS

>sp|Q9NVX0|HAUS2\_HUMAN HAUS augmin-like complex subunit 2 OS=Homo sapiens GN=HAUS2 PE=1  
SV=1

MAAANPWPASAPNGAGLVLGHFIASGMVNQEMLNMSKKTVSCFVNFTRLQQITNIQAEI  
YQKNLEIELLKLEKTDADVHPFFLAQKCHTLQSMNNHLEAVLKEKRSRQRLKPMCQE  
NLPIEAVYHRYMVHLELAVTFIERLETHLETIRNIPHLAANLKKMNQALAKMDILVTET

EELAENILKWRKQQNEVSSCIPKILAEESYLYKHDIIIMPPLPFTSKVHVQTINAK

>sp|Q99871|HAUS7\_HUMAN HAUS augmin-like complex subunit 7 OS=Homo sapiens GN=HAUS7 PE=1 SV=3

MGGARLGARNMAGQDAGCGRGGDDYSEDEGDSSVSRAAVEVFGKLKDLNCPFLEGLYTE  
PKTIQELLCSPEYRLEILEWMCTRVWPSLQDRFSSLKGVPTTEVKIQEMTKLGHEMLCA  
PDDQELLKGCACAQQLHFMDQLLDTIRSLTIGSSCSSLMEHFEDTREKNEALLGELFS  
SPHLQMLLNPECDPWPLDMQPLLKQSDDWQWASASAKSEEEKLAELARQLQESAALKH  
ALRTEYFAQHEQGAAAGAADISTLDQKLRLVTSDFHQLILAFLLQVYDDELGECCQRP  
LHPCGPIIQATHQNLSYSQLLQVMAVADTSKAVETVKKQQGEQICWGGSSSVMSLAT  
KMNELMEK

>sp|Q16836|HCDH\_HUMAN Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Homo sapiens GN=HADH PE=1 SV=3

MAFVTRQFMRSVSSSSTASASAKKIIVKHVTVIGGGLMGAGIAQVAAATGHTTVVLVDQTE  
DILAKSKKGIEESLRKVAKKKFAENLKAGDEFVEKTLSTIATSTDAASVVHSTDLVVEAI  
VENLKVKNELFKRLDKFAAEHTIFASNTSSLQITSIANATTRQDRFAGLHFFNPVPMKL  
VEVIKTPMTSQKTFESLVDFSKALGKHPVSCKDTPGFIVNRLVPYLMEAIRLYERGDAS  
KEDIDTAMKLGAGYMPGPFELLDYVGLDTTKFIVDGHMEDAENPLHQPSPLNKLVAEN  
KFGKKTGEGFYKYK

>sp|Q8IV16|HDBP1\_HUMAN Glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1 OS=Homo sapiens GN=GPIHBP1 PE=1 SV=2

MKALGAVLLALLLCGRPGRGQTQQEEEEDEHGPDDYDEDEDEVEEEEETNRLPGGRSR  
VLLRCYTCKSLPRDERCNLTQNCSHGQTCTTLIAHGNTESGLLTTHSTWCTDSCQPITKT  
VEGTQVTMTCCQSSLCNVPPWQSSRVQDPTGKGAGGPRGSSETVGAALLLNLLAGLGAMG  
ARRP

>sp|P22830|HEMH\_HUMAN Ferrochelatase, mitochondrial OS=Homo sapiens GN=FECH PE=1 SV=2

MRLSGANMAAALRAAGVLLRDPLASSWRVCQPWRWKSGAAAAAVTTETAQHAQGAQPV  
QPQKRKPKTGILMLNMGPELGDVHDFLLRLFLDRDLMTLPQNKLAQFIKRRTPKIQ  
EQYRRIGGGSPIKIWTSKQGEQGMVKLLDELSPNTAPHKYYIGFRYVHPLTEEAIEEMERD  
GLERAIQFTQYPQYSCSTTGSSLNAIYRYNQVGRKPTMKWSTIDRWPTHLLIQCFADH  
ILKELDHFPLEKRSEVILFSAHSLPMSVVRGDPYPQEVSAQVQKVMERLEYCNPYRLV  
WQSKVGMPWLGPQTDESIKGLCERGRKNILLVPIAFTSDHIETLYELDIEYSQVLAKEC  
GVENIRRAESLNGNPLFSKALADLVHSHIQSNELCSKQLTLSCPLCVNPVCRETKSFFTS  
QQQ

>sp|Q02577|HEN2\_HUMAN Helix-loop-helix protein 2 OS=Homo sapiens GN=NHLH2 PE=1 SV=1

MMLSPDQAADSDHPSAHSDPESLGGTDTKVLGVSVDLEPVEEAEGDGKGSRAALYPHP  
QQLSREEKRRRRRATAKYRSAHATRERIRVEAFNLAFELRKLPLTPDPKKLSKIEILR  
LAICYISYLNHVLDV

>sp|P81172|HEPC\_HUMAN Hepcidin OS=Homo sapiens GN=HAMP PE=1 SV=2

MALSSQIWAACLLLLLLASLTSGSVFPQQTGQLAELQPQDRAGARASWMPMFQRRRRRD  
THFPICIFCCGCCCHRSKCGMCKKT

>sp|Q9BQS7|HEPH\_HUMAN Hephaestin OS=Homo sapiens GN=HEPH PE=1 SV=3

MESGHLLWALLFMQSLWPQLTDGATRVYYLGIQDVQWNYAPKGRNVITNQPLDSDIVASS  
FLKSDKNRIGGTYYKTIYKEYKDDSYTDEVAQPAWLGFLGPVLQAEVGDVILHLKNFAT  
RPYTIHPHGVFYEKDSEGLYPDGSGLKADDSVPPGGSHIYNWTIPEGHAPTDADPAC



LTWIIYHSHVDAPRDIATGLIGPLITCKRGALDGNSPQRQDVDHDFLLFSVVDENLSWH  
LNENIATYCSDPASVDKEDETFQESNRMHAINGFVFGNLPENMCAQKRVAWHLFGMGNE  
IDVHTAFFHGMQLTTRGHHTDVANIFPATFVTAEMVPWEPGTWLI SCQVNSHFRDGMQAL  
YKVKSCSMAPPVDLLTGKVRQYFIEAHEIQWDYGPMGHDGSTGKNLREPGSISDKFFQKS  
SSRIGGTYWKVRYEAFQDETFQEKMHLEEDRHLGILGPVIRAEGDTIQVVFYNRASQPF  
SMQPHGVFYEKDYEGTVYNDGSSYPGLVAKPFEKVITYRWTVPPHAGPTAQDPACLTWMYF  
SAADPIRDTNSGLVGPLLVCRAGALGADGKQKGV DKEFFLLFTVL DENKSWYSNANQAAA  
MLDFRLLSEDI EGFQDSNRMHAINGFLFSNLPRLDMCKGDTV AWHLLGLGTETDVHGVMF  
QGNTVQLQGMRKGAAMLFPHTFVMAIMQPDNLGTFE IYCQAGSHREAGMRAIYNVSQC PG  
HQATPRQRYQAARIYYIMAEVEWDYCPDRSWEREWHNQSEKDSYGYIFLSNKDGLGSR  
YKKA VFREYTDGTFRIPRPTGP EEHLGILGLPIKGEVDILT VVFKNNASRPYSVHAHG  
VLESTTVWPLAAEPGEVVITYQWNIPERSGPGPND SACVSWIYSAVDPIKDMYSGLVG PL  
AICQKGILEPHGGRSDMDREFALLFLIFDENKSWYLEENVATHGSQDPGSINLQDET FLE  
SNKMHAINGKLYANLRGLTMYQGERVAWYMLAMGQDVLHTIHFHAESFLYRNGENYRAD  
VVDLFPGTFEVVMVASNPGTWLMHCHVTDHVHAGMETLFTVFSRTEHLSPLTVITKETE  
KAVPPRDIEEGNVKMLGMQIPIKNVEMLASVLVAISVTLLLVVLALGGVVWYQHRQRKLR  
RNRRSILDDSFKLLSFKQ

>sp|Q9BSE4|HERP2\_HUMAN Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-  
like domain member 2 protein OS=Homo sapiens GN=HERPUD2 PE=1 SV=2

MDQSGMEIPVTLI IKAPNQKYSQDTISCFLNWTVGKLKTHLSNVYPSKPLTKDQRLVYSG  
RLLPDHLQLKDILRKQDEYHMHVLVCTSRTPPSSPKSSTNRESHEALASSNSSSSDHSGS  
TTPSSGQETLSLAVGSSSEGLRQRTLPAQTDQAQSHQFPYVMQGNVDNQFPGQAAPP GF  
PVYPAFSPLQMLWWQMQYAHQYMQYQAAVSAQATSNVNPTQPTTSQPLNLAHVPGEEPP  
PAPNLVAQENRPMNENVQMNAQGPGV LNEEDFNRDWLDWMTFSRAAILLSIVYFYSSFS  
RFIMVMGAMLLVYLHQAGWFPRFQEGGHQAPNNAE VNNDGQANNNLELEEMERLMDDG  
LEDESGEDGGEDASAIQRPGLMASAWSFITFTFTSLIPEGPPQVAN

>sp|Q5TGS1|HES3\_HUMAN Transcription factor HES-3 OS=Homo sapiens GN=HES3 PE=3 SV=1

MEKKRRARINVSEQLKSLLEKHYSHQIRKRKLEKADILELSVKYMRSLQNSLQGLWPVP  
RGAEQPSGFRSCLPGVSQLLRRGDEVGSGLRCLVPESAAGSTMD SAGLGQEAPALFRPC  
TPAVWAPAPAAGGPRSPPLLLLPESLPGSSASVPPPQPASSRCAESPLGLRVWRPWGS  
PGDDL N

>sp|P06865|HEXA\_HUMAN Beta-hexosaminidase subunit alpha OS=Homo sapiens GN=HEXA PE=1 SV=2

MTSSRLWFSLLLAAAFAGRATALWPWPQNFQTS DQRYVLYPNNFQFYDVSSAAQPGCSV  
LDEAFQRYRDLLFGSGSWPRPYLTGKRHTLEKNVLVSVVTPGCNQLPTLESVENYTLTI  
NDDQCLLLSETVWGALRGLETFSQLVWKS AEGTFFINKTEIEDFPRFPHRGLLLDTSRHY  
LPLSSILDTLDMAYNKLNVFHWHLVDDPSFPYESFTFPELMRKGSYNPVTHIYTAQDVK  
EVIEYARLRGIRVLA EFDTPGHTLSWGPGIPGLLTPCYSGSEPSGTFGPVNPSLNNTYEF  
MSTFFLEVSSVFPDFYLHLGGDEVDFTCWKS NPEIQDFMRKKGFGE DFKQLESFYIQTLL  
DIVSSYGKGYVVWQEVFDNKVKIQPDTIIQVWREDIPVNYMKELELVTKAGFRALLSAPW  
YLNRI SYGPDWKDFYIVEPLAFEGTPEQKALVIGGEACMWGEYVDNTNLVPRLWPRAGAV  
AERLWSNKLTSDLTFAYERLSHFRCELLRRGVQAQPLNVGFCEQEFEQT

>sp|Q93099|HGD\_HUMAN Homogentisate 1,2-dioxygenase OS=Homo sapiens GN=HGD PE=1 SV=2

MAELKYISGFGNECSSEDP RCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPRSTNKRSW  
LYRI LPSVSHKPFESIDEGQVTHNWDEVDPDPNQLRWKPFEIPKASQKKVDFVSGLHTLC

GAGDIKSNNGLAIHIFLCNTSMENRCFYNSDGDFLIVPQKGNLLIYTEFGKMLVQPNEIC  
VIQRGMRFSIDVFEETRGIYILEVYGVHFEPLDGPIGANGLANPRDFLIPIAWYEDRQVP  
GGYTVINKYQGGKLAFAKQDVSPFNVAWHGNYTPYKYNLKNFMVINSVAFDHADPSIFTV  
LTAKSVRPGVAIADFVIFPPRWGVADKTRPPYYHRNCMSEFMGLIRGHYEAKQGGFLPG  
GGSLHSTMTPHGPDADCFEKASKVKLAPERIADGTMAFMFESSLSLAVTKWGLKASRCLD  
ENYHKCWEPLKSHFTPNRNPAPEN

>sp|Q9NWT6|HIF1N\_HUMAN Hypoxia-inducible factor 1-alpha inhibitor OS=Homo sapiens  
GN=HIF1AN PE=1 SV=2

MAATAAEAVASGSGEPREEAGALGPAWDESQLRSYSFPTRPIRLSQSDPRAEELIENEE  
PVVLTDTNLVYPALKWDLEYLQENIGNGDFSVSASTHKFLYDEKKMANFNFKPRSNR  
EEMKFHEFVEKLQDIQQRGGEERLYLQQTLDNTVGRKIVMDFLGFNWNWINKQQGKRGWG  
QLTSNLLLIGMEGNVTPAHYDEQQNFFAQIKGYKRCILFPPDQFECLYPYPVHHPCDRQS  
QVDFDNDPYERFPNFQNVVGYETVVGPGDVLYIPMYWWHHIESLLNGGITITVNFYKGA  
PTPKRIEYPLKAHQKVAIMRNIEMKMLGEALGNPQEVGPLLNTMIKGRYN

>sp|Q9BX68|HINT2\_HUMAN Histidine triad nucleotide-binding protein 2, mitochondrial  
OS=Homo sapiens GN=HINT2 PE=1 SV=1

MAAAVLAAGLRAARRAVAATGVRGGQVRGAAGVTDGNEVAKAQATPGGAAPTIFSRIL  
DKSLPADILYEDQCLVFRDVAPQAPVHFLVIPKKPIPRISQAEEDQQLLGHLLLVAQK  
TAKAEGLDGYRLVINDGKLGAQSVYHLHIHVLGGRQLQWPPG

>sp|O94927|HAUS5\_HUMAN HAUS augmin-like complex subunit 5 OS=Homo sapiens GN=HAUS5 PE=1  
SV=2

MELAQEARELGCWAVEEMGVPVAARAPESTLRRLCLGQGADIWAYILQHVHSQRTVKKIR  
GNLLWYGHQDSPQVRRKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQ  
DTQRRALLLRAQAGAMRRQQHTLRDPMQRLQNQLRRLQDMERKAKVDVTFGSLTSAALGL  
EPVVLRDVRTACTLRAQFLQNLLLPQAKRGS�TPHDDHFGTSYQQWLSSVETLLTNHP  
GHVLALEHLAAEREAEIRSLCSGDGLGDTEISRQAPDQSDSSQTLPSMVHLIQEGWRT  
VGVLSQRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLILGLRRCCLWTELKALHD  
QSQELQDAAGHRQLLLRELQAKQQRILHWRQLVEETQEQVRLLIKNSASKTRLCRSPGE  
VLALVQRKVVPTEAVAPQSRELLRCLEEEVRHLPHILLGTLLRHRPGELKPLPTVLP  
SIHQLHPASPRGSSFIASHKGLPPGKASELLLPAAASLRQDLLLLQDQSLWCWDLHMK  
TSLPPGLPTQELLQIQASQEKQKENLGQALKRLEKLLQALERIPELQGVGDWWEQPG  
QAALSEELCQGLSLPQWRLRWVQAQALQKLCS

>sp|Q96D42|HAVR1\_HUMAN Hepatitis A virus cellular receptor 1 OS=Homo sapiens GN=HAVCR1  
PE=1 SV=2

MHPQVVILSLILHLADSVAGSVKVGGEAGPSVTLPCHYSGAVTSMCWNRGSCSLFTCQNG  
IVWTNGTHVTRYKDTRYKLLGDLSRRDVSLTIENTAVSDSGVYCCRVEHRGWFNDMKITV  
SLEIVPPKVTTTTIVTTVPTVTTVRTSTTVPTTTTVPPTTMSIPTTTTTLTMTVS  
TTTSVPTTTSIPTTTSVPVTTTVSTFVPPMPLPRQNHEPVATSPSSPQPAETHPTTLQGA  
IRREPTSSPLYSYTTDGNDTVTESSDGLWNNQTQLFLEHSLLTANTTKGIYAGVCISVL  
VLLALLGVIIAKKYFFKKEVQQLSVSFSSQLIKALQNAVEKEVQAEDNIYIENSLYATD

>sp|Q8TDQ0|HAVR2\_HUMAN Hepatitis A virus cellular receptor 2 OS=Homo sapiens GN=HAVCR2  
PE=1 SV=3

MFSHLPPFCVLLLLLLLLLRSSEVEYRAEVGQNAYLPCFYTPAAPGNLVPVCWKGACPV  
FECGNVLRDTERDVNYWTSRYWLNQDFRKGDVSLTIENVTLADSGIYCCRIQIPGIMND

EKFNLKLVIKPAKVTPAPTRQRDFTAAAFPRMLTTRGHGPAETQTLGSLPDINLTQISTLA  
NELRDSRLANDLRDSGATIRIGIYIGAGICAGLALALIFGALIFKWYSHSKEKIQNLSLI  
SLANLPPSGLANAVAEGIRSEENIYTTIENVYEEVEEPNEYCYVSSRQQPSQPLGCRFAM  
P

>sp|Q99714|HCD2\_HUMAN 3-hydroxyacyl-CoA dehydrogenase type-2 OS=Homo sapiens GN=HSD17B10  
PE=1 SV=3

MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAAKKGNNCVF  
APADVTSEKDVQTALALAKGKFGRVDAVNCAGIAVASKTYNLKKGQTHLEDQFQVLDV  
NLMTGFNVIRLVAGEMGQNEPDQGGQGRGVIINTASVAAFEGQVQAAYSASKGGIVGRTL  
PIARDLAPIGIRVMTIAPGLFGTPLLTSLEKVCNFLASQVPFSPRLGDPAEYAHLVQAI  
IENPFLNGEVIRLDGAIRMQP

>sp|Q9Y5Z7|HCFC2\_HUMAN Host cell factor 2 OS=Homo sapiens GN=HCFC2 PE=1 SV=1

MAAPSLNWRVSSFTGPVPRARHGHRVAIRELMIIFGGGNEGIADELHVYNTATNQWF  
LPAVRGDIPPGCAAHGFVCDGTRILVFVGGMVEYGRYSNELYELQASRWLWKKVKPHPPPS  
GLPPCPRLGHSFSLYGNKCYLFGGLANESEDSNNNVPRYLNDFYELQLHGSGVVGWSIP  
VTKGVPVSPRESHTAVIYCKKDSGSPKMYVFGGMCARLDDLWQLDLETMSWSKPKGT  
VPLPRSLHTASVIGNKMYIFGGWVPHKGENTETSPHDCWRCTSSFSYLNLDTTTEWTLV  
SDSQEDKKNSRPRPRAGHCAVAIGTRLYFWSGRDGYKKALNSQVCKDLWYLDTEKPPAP  
SQVQLIKATTNSFHVKWDEVSTVEGYLLQLSTDLPYQAASSDSSAAPNMQGVMDPHRQG  
SNNIVPNSINDTINSTKTEQPATKETSMKNKPDFKALTDSNAILYPSLASNASNHNHSHVV  
DMLRKNEGPHTSANVGVLSCLDVRTVIPETSVSSTVSSTQTMVTQQTIKTESSTNGAV  
VKDETSLTTFSTKSEVDETYALPATKISRVEHATATPFSKETPSNPVATVKAGERQWCD  
VGIFKNNTALVSQFYLLPKGKQSIKVGNAVDYDLSLLKKQDLVPGTGYRFRVAAINGCG  
IGPFSKISEFKTCIPGFPGAPSAVRISKNEGIHLSWEPPTSPSGNILEYSAYLAIRTAQ  
IQDNPSQLVFMRIYCGLKTSCIVTAGQLANAHIDYTSRPAIVFRISAKNEKGYGPATQVR  
WLQGNKKAPLN

>sp|Q96DB2|HDA11\_HUMAN Histone deacetylase 11 OS=Homo sapiens GN=HDAC11 PE=1 SV=1

MLHTTQLYQHVPETRWPIVYSPRYNITFMGLEKLHPFDAGKWGKVINFLKEEKLLSDSML  
VEAREASEEDLLVHTRRYLNELKWSFAVATITEIPPVIFLPNFLVQRKVLRLRTQTGG  
TIMAGKLAVERGWAINVGGGFHHCSSDRGGGFCAYADITLAIKFLFERVEGISRATIIDL  
DAHQGNNGHERDFMDDKRVYIMDVYNRHIYPGDRFAKQAIRRKVELEWGTEDEYLDKVER  
NIKSLQEHLDPVVYNAGTDILEGDRLGGLSISPAGIVKRDELVFRMVRGRRVPILMVT  
SGGYQKRTARIADSILNLFGLGLIGPESPSVSAQNSDTPLLPAPV

>sp|Q92769|HDAC2\_HUMAN Histone deacetylase 2 OS=Homo sapiens GN=HDAC2 PE=1 SV=2

MAYSQGGGKKKVCYYYDGDIGNYYYQGHPMKPHRIRMTHNLLNLYGLYRKMEIYRPHKA  
TAEEMTKYHSDEYIKFLRSIRPDNMSEYSKMQRFNVGEDCPVFDGLFEFCQLSTGGSVA  
GAVKLNRRQQTDMAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKYHQRVLYIDIDIHH  
GDGVEEAFYTTDRVMTVSFHKYGEYFPGTGLDRDIGAGKGKYYAVNFPMRDGIIDESYGQ  
IFKPIISKVMEMYQPSAVVLQCGADSLSGDRLGCFNLTVKGHAKCDEVVKTFNLPPLMLG  
GGGYTIRNVARCWYETAVALDCEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNTPEYM  
EKIKQRLFENLRMLPHAPGVQMQAIPEDAVHEDSGDEDEDGDPKRISIRASDKRIACDEE  
FSDSEDEGEGRRNVADHKKGAKKARIEEDKKETEDKKTDVKEEDKSKDNSGEKTDTKGT  
KSEQLSNP

>sp|P13716|HEM2\_HUMAN Delta-aminolevulinic acid dehydratase OS=Homo sapiens GN=ALAD PE=1 SV=1

MQPQSVLHSGYFHPLLRWQTATTTLNASNLIYPIFVTDVDDIQPITSLPGVARYGVKR  
LEEMLRPLVEEGLRCVLIFGVPSRVPKDERGSAADSEESPAIEAIHLLRKTFPNLLVACD  
VCLCPYTSHGHCGLLENGAFRAEESRQLAEVALAYAKAGCQVVAPSDMMDGRVEAIKE  
ALMAHGLGNRVSVMSYSAKFASCFYGPFRDAAKSSPAFGDRRCYQLPPGARGLALRAVDR  
DVREGADMLMVKPGMPYLDIVREVKDKHPDLPLAVYHVSGEFAMLWHGAQAGAFDLKAAV  
LEAMTAFRRAGADIIITYYTPQLLQWLKEE

>sp|PO2790|HEMO\_HUMAN Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2

MARVLGAPVALGLWSLCWSLAIATPLPPTSAHGNAEGETKPDPDVTERCSDGWSFDATT  
LDDNGTMLFFKGEFVWVSKWDRELISERWKNFSPVDAAFRQGHNSVFLIKGDKVWVYP  
PEKKEKGYPKLLQDEFFGIPSPDLAAVECHRGECQAEGVLFFQGDREWFWDLATGTMKER  
SWPAVGNCSALRWLGRIYCFQGNQFLRFDVPRGEVPPRYPRDVRDYFMPCPGRGHGHRN  
GTGHGNSHHGPEYMRCSPHLVLSALTSDNHGATYAFSGTHYWRDLTSDRGWHSWPIAHQ  
WPQGPSAVDAAFSWEEKLYLVQGTQVYVFLTKGGYTLVSGYPRLEKEVGTPHGIILDSV  
DAAFIICPGSSRLHIMAGRRLWWLDLKSQAQATWTELPWPHEKVDGALCMEKSLGPNSCSA  
NGPGLYLHGPNNLYCYSDVEKLNAAKALPQPQNVTSLLGCTH

>sp|Q02575|HEN1\_HUMAN Helix-loop-helix protein 1 OS=Homo sapiens GN=NHLH1 PE=2 SV=1

MLNNDTMELDLPPHSETESGFSDCGGGAGPDGAGPGGPGGGQARGPEPEGRKDLQH  
LSREERRRRRRATAKYRTAHATRERIRVEAFNLAFELRKLLPTLPPDKKLSKIEILRLA  
ICYISYLNHVLDV

>sp|Q68CP4|HGNAT\_HUMAN Heparan-alpha-glucosaminide N-acetyltransferase OS=Homo sapiens GN=HGSNAT PE=1 SV=2

MTGARASAAEQRRRAGRSQARAAERAAGMSGAGRALAALLAASVLSAALLAPGGSSGRD  
AQAAPPRDLDKKRHAELKMDQALLIHNELLTNLTVYWKSECCYHCLFQVLVNPQSPK  
AGKPSAAAAASVTQHGSILQLNDTLEEKEVCRLEYRFGFEGNYSLLVKNIHNGVSEIACD  
LAVNEDPVDSNLPVSI AFLIGLAVIIVISFLRLLLSLDDFNNWISKAISSRETDRLINSE  
LGSPSRDPLDGDVQPATWRLSALPPRLRSVDTRFGIALILMVFNYYGGGKYWYFKHASW  
NGLTVADLVFPWFVFIGSSIFLSMTSILQRGCSKFRLLGKIAWRSFLLICIGIIIVNPN  
YCLGPLSWDKVRIPGVLQRLGVTYFVVAVLELLFAKPVPEHCASERSCLSLRDITSSWPQ  
WLLILVLEGLWLGLTFLLPVPGCTGYLGPGGIGDFGKYPNCTGGAAGYIDRLLLGDDHL  
YQHPSSAVLYHTEVAYDPEGILGTINSIVMAFLGVQAGKILLYKARTKDILIRFTAWCC  
ILGLISVALTKVSENEGFI PVNKNLWSLSYVTTLSSFAFFILLVLYPVVDVKGLWTGTPF  
FYPGMNSILVYVGHEVFENYFPFQWKLKDNQSHKEHLTQNI VATALWVLIAYILYRKKIF  
WKI

>sp|O14964|HGS\_HUMAN Hepatocyte growth factor-regulated tyrosine kinase substrate OS=Homo sapiens GN=HGS PE=1 SV=1

MGRGSGTFERLLDKATSQLLLLETDWESILQICDLIRQGDTQAKYAVNSIKKKVNDKNPHV  
ALYALEVMESVVKNCQGTVHDEVANKQTMEEKDLLKRQVEVNVRNKILYLIQAWAHAFR  
NEPKYKVVDQTYQIMKVEGHVFPEFKESDAMFAAERAPDWDAEECHRCRVQFGVMTRKH  
HCRACGQIFCGKCSSKYSTIPKFGIEKEVRVCEPCYEQLNRKAEGKATSTTELPPEYLT  
PLSQSQQLPPKRDETALQEEEEQLALALSQSEAEKERLRQKSTYTSYPKAEPMPSSASS  
APPASSLYSSPVNSSAPLAEDIDPELARYLNRNYWEKKQEEARKSPTPSAPVPLTEPAAQ  
PGEHHAAPTNNVENPLPETDSQPIPPSGGPFSEPQFHNGESEESHEQFLKALQNAVTTFFV

NRMKSNHMRGRSITNDSAVLSLFQSSINGMHPQLLELLNQLDERRLYYEGLQDKLAQIRDA  
RGALSALREEHREKLRRAAAAERQRQIQLAQKLEIMRQKKQEYLEVQRQLAIQRLQEQE  
KERQMRLEQQKQTVQMRAMPAPFLPYAQLQAMPAAGGVLYQPSGPASFPSTFSPAGSVE  
GSPMHGVYMSQPAPAAGPYSPMPSTAADPSMVSAYMYPAGATGAQAAPQAQAGPTASPAY  
SSYQPTPTAGYQNVASQAPQSLPAISQPPQSSTMGYMGSSQSVSMGYQPYNMQNLMTLPS  
QDASLPPQQPYIAGQQPMYQQMAPSGGPPQQPPVAQQPQAQGPPAQGSEAQLISFD

>sp|Q5VTY9|HHAT\_HUMAN Protein-cysteine N-palmitoyltransferase HHAT OS=Homo sapiens  
GN=HHAT PE=1 SV=1

MLPRWELALYLLASLGFHFYSFYEVYKVSREHEEELDQFELETDTLFGGLKKDATDFEW  
SFWMEWGKQWLWLLGHMVVSQMATLLARKHRPWILMLYGMWACWCVLGTPGVAMVLLH  
TTISFCVAQFRSLLTWLCSLLLLSTLRLQGVVEVKRRWYKTENEYLLQFTLTVRCLYY  
TSFSLELCWQQLPAASTSYSFPWMLAYVFYYPVLHNGPILSFSEFIKMQQQEHDSLKAS  
LCVLALGLGRLLCWWLAELMAHLMYMHAIYSSIPLETVSCWTLGGLALAQVLFFYVKY  
LVLFVGPALLMRLDGLTPPALPRCVSTMFSFTGMWRYFDVGLHNFLIRYVYIPVGGSQHG  
LLGTLFSTAMTFAFVSYWHGGYDYLWCWAALNWLGVTVENGVRRLVETPCIQDSLARYFS  
PQARRRFHAALASCSTSMILSNLVFLGGNEVGKTYWNRIFIQGWVWTL SVLGLFLYCYS  
HVGIAWAQTYATD

>sp|C9JL84|HHLA1\_HUMAN HERV-H LTR-associating protein 1 OS=Homo sapiens GN=HHLA1 PE=2  
SV=1

MLGFLSRGPSMKLCMGLACVLSLWNTVSGIKGEAKKEKGMTFLPTTVSGLREEERKEKGV  
AFLATTELPARSIDLALNLTENVGMLSRALKDSKKFFSLLSVTSYSSFAHKFSVAVY  
NISNLKTVDPKFPTRYCYCLNNRTNDLSDFALLVDIIGNSTSYLTEIFKSTSILSVNQ  
SNESDCIFICVMTGKSGRNLSDFWIEEKYPIINYFTSGLSGVLGAATRGARTSKPTT  
KSQKTLPTSTSPGHWTQSTPWASALRSSPWTETAAPSETEETLNTGRPPELPARATATWFS  
ASHTLPALATRRVARTQWLTAQRQTWASISSVPWAQTISEKKPGGSLWETRSPPTTAGT  
EEAMNTSLLAPAAEIMATPGSPSQASPTLGAFTHGTQTPSPTKATAPRYPQTGDLSEW  
PFTAGEEPVLVPRPHQVSRCPQLFKVGAMAAAPLTLAIQRLNPCLMELCQFFQQLCMS  
QRSPTEDMRYCLEYYSWFLKNATYICQVRKRVSHSTLTKQKLENICKSV

>sp|P15516|HIS3\_HUMAN Histatin-3 OS=Homo sapiens GN=HTN3 PE=1 SV=2  
MKFFVFALILALMLSMTGADSHAKRHHGYKRFHEKHSHRGYRSNYLYDN

>sp|O15347|HMGB3\_HUMAN High mobility group protein B3 OS=Homo sapiens GN=HMGB3 PE=1 SV=4  
MAKGDPKPKPGKMSAYAFFVQTCREEHKKKNPEVPVNFAEFSKKCSERWKTMSGKEKSKF  
DEMAKADKVRYDREMKDYGPAKGKKKKDPNAPKRPPSGFFLCSEFRPKIKSTNPGISI  
GDVAKKLGEWNNLNDSEKQPYITKAALKKEKEYEKDVADYKSKGKFDGAKGPAKVARKKV  
EEEEEEEEEEEEEEEEDE

>sp|O75330|HMMR\_HUMAN Hyaluronan mediated motility receptor OS=Homo sapiens GN=HMMR PE=1  
SV=2

MSFPKAPLKRFPNDPSGCAPSPGAYDVKTLEVLKGPVSFQKSQRFKQQKESKQNLNVDKDT  
TLPASARKVKSSSKESQKNDKDLKILEKEIRVLLQERGAQDRRIQDLETELEKMEARLN  
AALREKTSLSANNATLEKQLIELTRTNELLKSKFSENGNQKNLRILSLELMKLRNKRETK  
MRGMMAKQEGMEMKLQVTQRSLEESQGKIAQLEGKLVSIEKEKIDEKSETEKLEYIEEI  
SCASDQVEKYKLDIAQLEENLKEKNDEILSLKQSLEENIVILSKQVEDLNVKQCQLLEKEK  
EDHVNRNREHNENLNAEMQNLKQKFILEQQEREKLQKQELQIDSLLQKEKELSSSLHQKL  
CSFQEEVMKEKNLFEEELKQTLDELDKLQQKEEQAERLVKQLEEEAKSRAEELKLLEEKL

KGKEAELEKSSAAHTQATLLLQEKYDSMVQSLEDVTAQFESYKALTASEIEDLKLENSSL  
QEKAAGKNAEDVQHILATESSNQEYVRMLLDLQTKSALKETEIKEITVSFLQKITDL  
QNQLKQQEEDFRKQLEDEEGRKAEKENTTAELTEEINKWRLLYEELYNKTKPFQLQLDAF  
EVEKQALLNEHGAAEQNLKIRDSYAKLLGHQNLKQKIKHVVKLDENSQKSEVSKLRC  
QLAKKKQSETKLQEELNKVLGIKHFDPKAFHHESKENFALKTPLKEGNTNCYRAPMECQ  
ESWK

>sp|POCJ68|HMN1\_HUMAN Humanin-like 1 OS=Homo sapiens GN=MTRNR2L1 PE=2 SV=1  
MAPRGFSCLLSTSEIDL PVKRRT

>sp|A8MTL9|HMSD\_HUMAN Serpin-like protein HMSD OS=Homo sapiens GN=HMSD PE=2 SV=1  
MSISSALAMVFMGAKGNTAAQMSQALCFSKIGGEDGDIHRGFQSLLVAINRTDTEYVLRT  
ANGLFGEKSYDFLTGFTDSCGFYQATIKQLDFVNDTEKSTTRVNSWVADKTKGENILLF  
YFDNILNSFIVSSLQNCQI

>sp|P35680|HNF1B\_HUMAN Hepatocyte nuclear factor 1-beta OS=Homo sapiens GN=HNF1B PE=1  
SV=1

MVSKLTSLQQELLSALLSSGVTKEVLVQALEELLPSNFGVKLETPLSPGSGAEPDTKP  
VFHTLTNGHAKGRLSGDEGSEDGDDYDTPPILKELQALNTEEAQRAEVDRLSEDPWR  
AAKMIKGYMQHNIPQREVVDVTGLNQSHLSQHLNKGTPMKTQKRAALYTWYVRKQREIL  
RQFNQTVQSSGNMTDKSSQDQLFLFPEFSQQSHGPGQSDDACSEPTNKKMRNRFKWGP  
ASQQILYQAYDRQKNPSKEEREALVEECNRAECLQRGVSPSKAHGLGSNLVTEVRVYNWF  
ANRRKEEAFRQLAMDAYSSNQTHSLNPLLSHGSPHHQPSSSPNKLSGVRYSQQGNEI  
TSSSTISHHGNSAMVTSQSVLQVSPASLDPGHNLLSPDGKMSVSGGGLPPVSTLTNIH  
SLSHHNPPQSQNLIMTPLSGVMAIAQSLNTSQAQSVPVINSVAGSLAALQPVFQSQQLHS  
PHQQPLMQQSPGSHMAQQPFMAAVTQLQNSHMYAHKQEPQYSHTSRFPSAMVVTDTSSI  
STLTNMSSSKQCPLQAW

>sp|P68871|HBB\_HUMAN Hemoglobin subunit beta OS=Homo sapiens GN=HBB PE=1 SV=2  
MVHLTPEEKSAVTALWGKVVNDEVGGEALGRLLVVYPWTQRFFESFGDLSTPDAMGNPK  
VKAHGKKVLGAFSDGLAHLNLTGTFATLSELHCDKLHVDPENFRLLGNVLCVLAHHFG  
KEFTPPVQAAYQKVVAGVANALAHKYH

>sp|Q6B0K9|HBM\_HUMAN Hemoglobin subunit mu OS=Homo sapiens GN=HBM PE=2 SV=1  
MLSAQERAQIAQVWDLIAGHEAQFGAELLLRLFTVYPSTKVYFPHLSACQDATQLLSHGQ  
RMLAAVGAAGVQHDNLRAALSPLADLHALVLRVDPANFPLLIQCFHVVLASHLQDEFTVQ  
MQAAWDKFLTGVAVVLTEKYR

>sp|Q9Y3E1|HDGR3\_HUMAN Hepatoma-derived growth factor-related protein 3 OS=Homo sapiens  
GN=HDGFRP3 PE=1 SV=1

MARPRPREYKAGDLVFAKMGYPHWPARIDELPEGAVKPPANKYPIFFFGTHETAFLGPK  
DLFPYKEYKDKFGKSNKRKGFNEGLWEIENNPVGKFTGYQAIQQQSSSETEGEGGNTADA  
SSEEGDRVEEDGKGKRKNEKAGSKRKKSYTSKKSSKQSRKSPGDEDDKDCKEENKSSS  
EGGDAGNDTRNTSDLQKTSEGT

>sp|Q08623|HDHD1\_HUMAN Pseudouridine-5'-phosphatase OS=Homo sapiens GN=PUDP PE=1 SV=3  
MAAPPQPVTHLIFDMGLLDTERLYSVVFQEICNRYDKKYSWDVKSVMGKKALEAAQI  
IIDVLQLPMSKEELVEESQTKLKEVFPTAALMPGAEKLIHLRKHGIPFALATSSGSASF  
DMKTSRHKEFFSLFSHIVLGDDPEVQHGKPDPIFLACAKRFSPPPAMEKCLVFEDAPNG  
VEAALAAGMQVVMVPDGNLSRDLTTKATLVLSLQDFQPELFGLPSE

>sp|Q86WZ0|HEAT4\_HUMAN HEAT repeat-containing protein 4 OS=Homo sapiens GN=HEATR4 PE=2 SV=2

MTRTQKGKTFLLPHCFYQSLPPRLGWGMILNYSKLKGKEECASVSSVPMVFFSSQYRLHRK  
SQYLKMAAANLTFSEQEVVWQRGLPSIPYSQYSFDHLYNTNDI IHTPQIRKARPQKPVSFK  
FLGSSSPLTGDTSLAVKTESSANPEKKLKKSKPASTVREAPRPLIHHPCMHPDMLGRPPS  
LDVNLEEREAWLLPPEKEARAWVLEKLNERTARWISKRPRRPGASPNKWQSFLRQQ  
YDWSHIRDELTSASDLELLKQLEAEETAEFEDQSVILPPQEKKKPELLLPVYYRLPSYFQ  
QAETVEIMPGNKSTEDIHEKTSLSQPQTQSYFRQVTPRAGKFAYSTDNTFEQEIYFDEVQ  
IIHQIGAKRDQIVLENLNRYNKQLSKVFPETPEKWSAQAIPEASYRPVQGALRWTALPTP  
AKDMLLQVGEKDVPKTRRLKKQAKSLQEDVTWELVVLRRMLKEWKTAWALIIEWHHETV  
ENLLQSLGDLHDDVRIKAITTCATAALERPRIATSQRDSDKTIQDLPEVLLPALEAALCD  
KNAHVRMAAAICQYAIQSHNPLARNIMQTALLKGNVSDSWAAAQCLALEGTATYPVIKRI  
LHQLFTKKNEDTEEQSYILLSYLSEKTTLIHTMLAVELNSCQWKNRIVACQAFSRISGNV  
CLDMKHKLILQMWNDWNKEVRRAAAQALGQMSLGKEVHDIIRVKLGQNSQERVEALYLI  
GELKLMATAKLLPSFLHCFSDDFTAVRRAACLAAGALQIRDKMVLECLLNLQMRDPYWKIK  
AFAIRALGQIGQVSPELTDLLLWAIHYEESPGVRLEACRSILALKLQGDRVRDFTLDVLL  
LENHDAVLKEMYQTMKILNLGNEGQEMLQEIKNRIKTLQKDLLTHKILKLEVMGKVR  
EEAKRVYLKPKGEQGPLTLQTLQETFDQEMVLPVRRPSEVCDTEAVIKPVKPRAPNPWLQ  
SSVPGLTTRSKVRSSLVKDLRTSPEKRIAVGPFRRSDYPALYLGKFSERTFFSPIMSSPSG  
KKG AHL

>sp|Q6AI08|HEAT6\_HUMAN HEAT repeat-containing protein 6 OS=Homo sapiens GN=HEATR6 PE=1 SV=1

MAAVQVVGSWPSVQPREAPREAI PERGNFRLLSARLCALRPDDSSSARTEIHLDFDQLI  
SENYSESGVAPEDVSALLVQACRLVPLNQNLVSKVSQLIHHLLNRLQVIVDEQHLDLFL  
LAYTISAITHQCSSWTHREILQALAAALVYCNGSKCQKYLPELLGNTGLLMKLSDLAQSDPE  
VRRAAVHCMANLCLSVPGQPYLEPYQNVCFQAFLTILQSPKSSDMDITFCMLLQNALK  
GIQSLNLGGRMKLTQTDELGALLAVLKKFMFHGLPGLNIEMPTVLYPTPLPYDGRTPIK  
PQQSESSASRPTLNKKKKSKVKPKKIQQGEEEEKESSGEIEAAPVTGTGRVNLHEGNTWC  
PSSLGVSQSLPLDGSAAEKDGVSSSFSSSSWKRVSSSESDFDAEGGMQSKMRSYQAKVR  
QGALVCFLSTIKSIEKKVLYGYWSAFIPDTPELGSPQSVSLMTLTLKDPSPKTRACALQV  
LSAILEGSKQFLSVAEDTSDHRRFAFTPFVSMIACSIRELHRCLLLALVAESSQTVTQII  
KCLANLVSNAFYDRLKLSLLTKVWNQIKPYIRHKDVNVRVSSLTLLGAIVSTHAPLPEVQ  
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>sp|Q9Y4D8|HECD4\_HUMAN Probable E3 ubiquitin-protein ligase HECD4 OS=Homo sapiens  
GN=HECD4 PE=1 SV=5

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>sp|Q8TDG4|HELQ\_HUMAN Helicase POLQ-like OS=Homo sapiens GN=HELQ PE=1 SV=2

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>sp|P13196|HEM1\_HUMAN 5-aminolevulinate synthase, nonspecific, mitochondrial OS=Homo sapiens GN=ALAS1 PE=1 SV=2

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QGHRVVDIACGSGDAQTLCLTDDDTVWSWGDGDYGKLGRGSGDGCKVPMKIDSLTGLGVV  
KVECGSQFSVALTKSGAVYTWGKGDYHRLGHGSDDHVRPRQVQGLQGKKVIAIATGSLH  
CVCCTEDGEVYTWGDNDEGLDGTNTAIQRPRLVAALQGKKVNRVACGSAHTLAWSTSK

PASAGKLPAQVPM EYNHLQEIPITIALRNRLLLHHLSELFPCIPMFDEGLDETGLGP  
SVGFDTLRGILISQGEAAFRKVVQATMVRDRQHGPVVELNRIQVKRSRSKGLAGPDGT  
KSVFGQMCAKMSSFGPDSLPHRVWVKFVGESVDDCGGYSIESIAEICEELQNGLTPL  
LIVTPNGRDESGANRDCYLLSPAARAPVHSSMFRFLGVLLGIAIRTGSPLSLNLAEPVWK  
QLAGMSLTIADLSEVDKDFIPGLMYIRDNEATSEFEAMSLPFTVPSASGQDIQLSSKHT  
HITLDNRAEYVRLAINYRLHEFDEQVAAREGMARVVPVPLLSLFTGYELETMVCSPDI  
PLHLLKSVATYKIEPSASLIQWFEVMEFSNTERSLFLRFVWGRTRLPTIADFRGRD  
FVIQVLDKYNPPDHFLEPYTCFFLLKLPRYSCKQVLEEKLYAIIHFCKSIDTDDYARIA  
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>sp|Q5GLZ8|HERC4\_HUMAN Probable E3 ubiquitin-protein ligase HERC4 OS=Homo sapiens  
GN=HERC4 PE=1 SV=1

MLCWGNASFGQLGLGGIDEEIVLEPRKSDFFINKRVRDVGCGLRHTVFVLDGTVYTCGC  
NDLQGLGHEKSRKKPEQVVALDAQNIVAVSCGEAHTLALNDKGQVYAWGLSDGQLGLVG  
SEECIRVPRNIKSLSDIQIVQVACGYHSLALSKASEVFCWGQNKYQQLGLGTDCKKQTS  
PQLLKSLLGIPFMQVAAGGAHSFVLTLSGAIFGWGRNKFQQLGLNDENDRYVPNLLKSLR  
SQKIVYICCGEDHTAALTKEGGVFTFGAGGYQLGHNSTSEINPRKVFELMGSIVTEIA  
CGRQHTSAFVPSSGRIYSFGLGGNGQLGTGSTSNRKSPFTVKGNWYPYNGQCLPDIDSEE  
YFCVKRIFSGGDQSFSHYSSPQNCPPDDFRCPNPTKQIWTVNEALIQKWSYPSGRFPV  
EIANEIDGTFSSSGCLNGSFLAVSNDDHYRTGTRFSGVDMNAARLLFHKLIQPDHPQISQ  
QVAASLEKNLIPKLTSSLPDVEALRFYLTLPCEPLMSDSNNFTTIAIPFGTALVNLEKAP  
LKVLENWWSVLEPPLFLKIVELFKEVVVHLLKLYKIGIPPSERRIFNSFLHTALKVLEIL  
HRVNEKMGQIIQYDKFYIHEVQELIDIRNDYINWVQQAYGMDVNHGLTELADIPVTICT  
YPFVFDAQAKTTLLQTDAVLQMQMAIDQHRQNVSSLFLPVIESVNPCLILVVRRENIVG  
DAMEVLRKTKNIDYKKPLKVI FVGEDAVDAGGVKKEFFLLIMRELLDPKYGMFRYYEDSR  
LIWFSDKTFEDSDLFHLIGVICGLAIYNCTIVDLHFPLALYKLLKKKPSLDDLKELMPD  
VGRSMQQLLDYPEDDIEETFCNLFTITVENFGATEVKELVLNGADTAVNKQNRQEFVDAY  
VDYIFNKSVASLFDFAHAGFHKVCGGKVLLLFQPNELQAMVIGNTNYDWELEKNTYKYG  
EYWAEHPTIKIFWEVFHELPLEKKKQFLFLTGSDRIPILGMKSLKLV IQSTGGGEEYLP  
VSHTCFNLLDLPKYTEKETLRSKLIQAIDHNEGFSLI

>sp|Q15034|HERC3\_HUMAN Probable E3 ubiquitin-protein ligase HERC3 OS=Homo sapiens  
GN=HERC3 PE=1 SV=1

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NTKGQLGHEREGNKPEQIGALADQHI IHVACGESHSALSDRGQLFSWGAGSDGQLGLMT  
TEDSVAVPRLIQKLNQQTILQVSCGNWHCLALAADGQFFTGWKNSHGQLGLGKEFPSQAS  
PQRVRSLEGIPLAQVAAGGAHSFALSLSGAVFGWMNAGQLGLSDEKDRESPCHVKLLR  
TQKVVIYISCGEEHTAVLTKSGGVFTFGAGSCGQLGHDSMNDEVNPRRVLELMGSEVTQIA  
CGRQHTLAFVPSSGLIYAFGCGARGQLGTGHTCNVKCPSPVKGYAAHSGQLSARADRFK  
YHIVKQIFSGGDQTFVLC SKYENYSPAVDFRTMNAHYTSLINDETIAVWRQKLSEHNNA  
NTINGVVQILSSAACWNGSFLEKKIDEHFKTSPKIPGIDLNSTRVLFELMNSQHSMILE  
QILNSFESCLIPQLSSSPDVEAMRIYLILPEFPLLQDSKYIITLTIPLAMAILRLDTNP  
SKVLDNWSQVCPKYFMKLVNLYKGAVLYLLRGRKTFLIPVLFNNYITAALKLLEKLYKV  
NLKVKHVEYDIFYIPEISNLVDIQEDYLMWFLHQAGMKARPSIIQDVTLC SYPFIFDAQ  
AKTKMLQTD AELQMQVAVNGANLQNVFMLLTLEPLLARSFVLHVRRNNLVGDALRELS  
IHSDIDLKKPLKVI F DGEEAVDAGGVTKEFFLLLLKELLNPIYGMFTYYQDSNLLWFSDT

CFVEHNWFHLIGITCGLAIYNSTVVDLHFPLALYKLLNVKPGLEDLKELSPTEGRSLQE  
LLDYPGEDVEETFCLNFTICRESYGVIEQKKLIPGGDNVTCKDNRQEFVDAYVNYVFQI  
SVHEWYTAFFSSGFLKVCGGKVLELFQPSSELRAMMVGNSNYNWELEETAITYKGDYSATHP  
TVKLFWETFHEFPLEKKKKFLLFTGSDRIPIYGMASLQIVIQSTASGEEYLPVAHTCYN  
LLDLPKYSSKEILSARLTQALDNYEGFSLA

>sp|Q8IV36|HID1\_HUMAN Protein HID1 OS=Homo sapiens GN=HID1 PE=1 SV=1

MGSTDSKLNFRKAVIQLTTKTQPEATDDAFWDQFWADTATSVQDVFALVPAAEIRAVRE  
ESPSNLATLCYKAVEKLVQGAESGCHSEKEKQIVLNCRRLLTRVLPYIFEDPDWRGFFWS  
TVPGAGRGGQGEEDDEHARPLAESLLAIADLLFCPDFTVQSHRRSTVDSAEDVHSLDSC  
EYIWEAGVGFAHSPQPNYIHDMMRMELLKLLTCTFSEAMYLPPAPESGSTNPWVQFFCST  
ENRHALPLFTSLLNTVCAYDPVGYGIPYNHLLFSDYREPLVEEAQVLIVTLDHDSASSA  
SPTVDGTTTGTAMDDADPPGPNLFVNYLSRIHREEDFQFILKGIARLLSNPLLQTYLPN  
STKKIQFHQELLVLFWKLCDFNKKFLFFVLKSSDVLIDILVPIFLNDARADQSRVGLMH  
IGVFILLLLSGERNFGVRLNKPYSIRVPMIPVFTGTHADLLIVVFHKIITSQHRLQPL  
FDCLLTIVVNVSPYLKSLSMVTANKLLHLEAFSTTWFLFSAAQNHHLVFFLLEVFNII  
QYQFDGNSNLVYAIIRKRSIFHQLANLPTDPPTIHKALQRRRRRTPEPLSRTGSQEGTSME  
GSRPAAPAEPTLTKTSLVATPGIDKLTEKSQVSEDGTLRSLEPEPQQSLEDGSPAKGEPS  
QAWREQRRPSTSSASGWSPTPEWVLSWKSPLQTIMRLQVLVPQVEKICIDKGLTDE  
SEILRFLQHGTLVGLLPVPHPIIRKYQANS GTAMWFRTYMWGVIIYLRNVDPPVWYD TDV  
KLFEIQRV

>sp|Q16665|HIF1A\_HUMAN Hypoxia-inducible factor 1-alpha OS=Homo sapiens GN=HIF1A PE=1 SV=1

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GLTQFELTGHSVDFDTHPCDHEEMREMLTHRNLVKKGKEQNTQRSFFLRMKCTLTSRGR  
TMNIKSATWKVLHCTGHIHVDYTSNQPQCQYKPPMTCLVLICEPIPHPSNIEIPLDSK  
TFLSRHSLDMKFSYCDERITELMGYEPEELLGRSIEYYHALDSHDLTKTHDMFTKGQV  
TTGQYRMLAKRGYVWVETQATVIYNTKNSQPQCIVCVNYVSGIIQHDLIFSLQQTECV  
LKPVESSDMKMTQLFTKVESEDSSSLFDKLLKEPDALTLLAPAAGDTIISLDFGSNDTET  
DDQQLEEVPLYNDVMLPSPNEKLQINLAMSPLPTAETPKPLRSSADPALNQEVALKLEP  
NPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNPSEYCFYVDSDMVNEFKLELVEKLF  
AEDTEAKNPFSTQDLDLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPSTVT  
VFQQTQIQEPTANATTTTATDELKTVTKDRMEDIKILIASPSPTHIKETTSATSSPYR  
DTQSRTASPNRAGKVIEQTEKSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKR  
KMEHDGSLFQAVGIGTLLQQPDDHAATTSLSWKRVKGCKSSEQNGMEQKTIILIPSDLAC  
RLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQVN

>sp|Q9BQA5|HINFP\_HUMAN Histone H4 transcription factor OS=Homo sapiens GN=HINFP PE=1 SV=2

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EEEFSLWQECGFCSLDSSADLIRHVYFHCYHTKLKQWGLQALQSQADLGPCILDFQSRN  
VIPDIPDHFLCLWEHCENSFDNPEWFYRHVEAHSLCCEYEAVGKDNPVVLCGWKGCTCTF  
KDRSKLREHLRSHTQEKVVACPTCGGMFANNTKFLDHIRRQTSLDQQHFQCSHC SKRFAT  
ERLLRDHMRNHVNHKYCPLCDMTCPLPSSLRNHMRFRHSEDRPFKCDCCDYCKNLIDLQ  
KHLDT HSEEPAYRCDFENCTFSARSLCSIKSHYRKVHEGDSEPRYKCHVCDKCFTRGNL  
TVHLRKKHQFKWPSGHPFRFRIYKEHEDGYMRLQLVRYESVELTQQLLRQPQEGSGLTSLN

ESSLQGIILETVPGEPGRKEEEEEEGKGSEGTALSASQDNPSSVIHVVNQTNAQQGQEIYV  
YVLSEAPGEPPPAPEPPSGGIMEKLQGIAEEPEIQMV

>sp|Q9NQE9|HINT3\_HUMAN Histidine triad nucleotide-binding protein 3 OS=Homo sapiens  
GN=HINT3 PE=1 SV=1

MAEEQVNRSAGLAPDCEASATAETTVSSVGTCEAAGKSPEPKDYDSTCVFCRIAGRQDPG  
TELLHCENEDLICFKDIKPAATHHYLVVPKKHIGNCRTLRKDQVELVENMVTVGKTILER  
NNFTDFTNVRMGFHMPPFCSISHLHLVLPVDQLGFLSKLVYRVNSYWFITADHLIEKL  
RT

>sp|075146|HIP1R\_HUMAN Huntingtin-interacting protein 1-related protein OS=Homo sapiens  
GN=HIP1R PE=1 SV=2

MNSIKNPVRLSRRPGHSLEAEREQFDKTQAISISKAINTEAPVKEKHARRIILGTHH  
EKGAFTFWSYAIGLPLPSSSILSWKFCHVLHKVLRDGHNVLDHCQRYRSNIREIGDLWG  
HLHDRVQGLVNVYTKLLLTKISFHLKHPQFPAGLEVTDDEVLEKAAGTDVNNIFQLTVEMF  
DYMDCELKLSSESVFRQLNTAIAVSQMSSGQCRLAPLIQVIQDCSHLYHYTVKLLFKLHSC  
LPADTLQGHRDRFHEQFHSLRNFFRRASDMLYFKRLIQIPRLPEGPPNFLRASALAEHIK  
PVVVIPEEAPEDDEEPENLIEISTGPPAGEPVVVADLFDQTFGPPNGSVKDDRDQLIESLK  
REVEMLRSELEKIKLEAQRYIAQLKSQVNALEGELEEQRKQKQKALVDNEQLRHELAQLR  
AAQLEGERSQGLREEAERKASATEARYNKLKEKHSELVHVHAELLRNADTAKQLTVTQQ  
SQEEVARVKEQLAFQVEQVKRESELKLEEKSDQLEKLRLEAKAGELARAQEALSHTEQ  
SKSELSSRLDTLSAEKDALSGAVRQREADLLAAQSLVRETEAALSREQQRSSQEQGELQG  
RLAERESQEQGLRQRLLEQFAVLRGAAAEAGILQDAVSKLDDPLHLRCTSSPDYLVSR  
AQEALDAVSTLEEGHAQYLTSADASALVAALTRFSLAADTIINGGATSHLAPDTPADR  
LIDTCRECGARALELMGQLQDQALRHMQASLVRTPLQGILQLGQELPKPSLDVRQEELG  
AVVDKEMAATSAAIEDAVRRIEDMMNQARHASSGVKLEVNERILNSCTDLMKAIRLLVTT  
STSLQKEIVESGRGAATQQEFYAKNSRWTEGLISASKAVGWGATQLVEAADKVVLHTGKY  
EELIVCSHEIAASTAQLVAASKVKANKHSPHLSRLQECSRTVNERRAANVVASTKSGQEQI  
EDRDTMDFSGLSLIKKKQEMETQVRVLELEKTLEAERMRLGELRKQHYVLGASGSPGE  
EVAIRPSTAPRSVTTKKPPLAQKPSVAPRQDHQLDKKDGIIYPAQLVNY

>sp|Q86Z02|HIPK1\_HUMAN Homeodomain-interacting protein kinase 1 OS=Homo sapiens GN=HIPK1  
PE=1 SV=1

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QVANFNIPAYDQGLLLPAPAVEHIVVTAADSSGSAATSTFQSSQTLTHRSNVSLLEPYQK  
CGLKRKSEEVDSNGSVQIIIEHPPLMLQNRTVVGAAATTTVTTKSSSSSGEGDYQLVQH  
EILCSMTNSYEVLEFLGRGTGQVAKCWKRSTKEIVAIIKLNHPSYARQGQIEVSILSR  
LSSENADENFVRSYECFQHKNHNTCLVFEMLEQNLDFLQKQKFSPLPLKYIRPILQQVA  
TALMKLKSGLIHADLKPENIMLVDVPRQPYRVKVIDFGSASHVSKAVCSTYLQSRYYRA  
PEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGT  
KTTRFFNRDPNLGYPLWRLKTPEEHELETGIKSKEARKYIFNCLDDMAQVMSTDLEGTD  
MLAEKADRREYIDLLKKMLTIDADKRITPLKTLNHQFVTMTHLLDFPHSNHVKSCFQNME  
ICKRRVHMYDTSVQIKSPFTTHVAPNTSTNLTMSFSNQLNTVHNQASVLASSSTAAAATL  
SLANSDVSLNLYQSALYPSSAAPVPGVAQQGVSLQPGTTQICTQTDPPFQQTFIVCPPAFQ  
TGLQATTKHSGFPVRMDNAVPIVPQAPAAQPLQIQSGVLTQGSCTPLMVATLHPQVATIT  
PQYAVPFTLSAAGRPAALVEQTA AVLQAWPGGTQQIILLPSTWQQLPGVALHNSVQPTAMI  
PEAMGSGQQLADWRNAHSHGNQYSTIMQQPSLLTNHVTLATAQPLNVGVAHVVRQQQSSS

LPSKKNKQSAPVSSKSSLDVLPQVYSLVGSSPLRTTSSYNSLVVQDQHQPIIIPDTPS  
PPVSVITIRSDTDEEEDNKYPSSSSGLKPRSNVISYVTVNDSPDSDSSLSPYSTDTLSA  
LRGNSGSVLEGPGRVVADGTGTRTIIVPPLKTQLGDCTVATQASGLLSNKTGPVASVSGQ  
SSGCCITPTGYRAQRGGTSAAQPLNLSQNNQSSAAPTQERSSNPAPRRQQAFAVAPLSQA  
PYTFQHGSPLHSTGHPHLAPAPAHLPQAHLYTYAAPTSAALGSTSSIAHLFSPQGSSR  
HAAAYTTHPSTLVHQVPVSVGPSLLTSASVAPAQYQHQFATQSYIGSSRGSTIYTGYP  
PTKISQYSYL

>sp|P10072|HKR1\_HUMAN Krueppel-related zinc finger protein 1 OS=Homo sapiens GN=HKR1 PE=2  
SV=4

MRVNHTVSTMLPTCMVHRQTMSCSGAGGITAFVAFRDVAVYFTQEEWRLLSPAQRTHRE  
VMLETYNHLVSLEIPSSKPLIAQLERGEAPWREERKCPLDLCPESEKPEIQLSPSCPLIF  
SSQQALSQHVWLSHLSQLFSSLWAGNPLHLGKHYPEDQKQQQDPFCFSGKAEWIEGEDS  
RLLFGRVSKNGTSKALSSPPEEQPAQSKEDNTVVDIGSSPERRADLEETDKVLHGLEVS  
GFGEIKYEEFGPGFIKESNLLSLQKTQTGETPYMYTEWGDSTFGSMSVLIKNPRTHSGGP  
YVCRECGRGFTWKSNIITHQRTHSGEKPYVCKDCGRGFTWKSNIIFTHQRTHSGLKPYVCK  
ECGQSFSLSKSNLIITHQRAHTGEKPYVCRECGRGFRQHSHLVRHKRTHSGEKPYICRECEQ  
GFSQKSHLIRHLRTHTEKPYVCTECGRHFSWKSNIKTHQRTHSGVKPYVCECGQCFSL  
KSNLNKHQRSHTGEKPFVCTECGRGFTRKSTLSTHQRTHSGEKPFVCAECGRGFNDKSTL  
ISHQRTHSGEKPFMCRECGRRFRQKPNLFRHKRAHSGAFVCRECGQGFCAKLTLIKHQRA  
HAGGKPHVCRECGQGFSRQSHLIRHQRTHSGEKPYICRKCGRGFSRKSNIIRHQRTHSG

>sp|Q14527|HLTF\_HUMAN Helicase-like transcription factor OS=Homo sapiens GN=HLTF PE=1  
SV=2

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GSLRGHVVGRLRYTGVVNNNEMVALQRDPNNPYDKNAIKVNNVNGNQVGHLLKELAGALA  
YIMDNKLAQIEGVVFPFANNAFTMPLHMTFWGKEENRKAQSDQLKKHGFKLGPAPKTLGF  
NLESGWGSGRAGPSYMPVHAQVMTTEQLKTEFDKLFEDLKEDDKTHEMEPAEAIETPL  
LPHQKQALAWMVSRNSKELPPFWEQRNDLYYNTITNFSEKDRPENVHGGILADDMGLGK  
TLTAIAVILTNFHDGRPLIERVKKNLLKKEYNVNDDSMKLGNNNTSEKADGLSKDASRC  
SEQPSISDIKEKSKFRMSELSSSRPKRRKTAVQYIESDSEETETSELPQKMKGKLKNVQ  
SETKGRAGAGSSKVIDVAFACALTSSVPTTKKKMLKKGACAVEGSKKTDVEERPRTL  
ICPLSVLSNWIDQFGQHIKSDVHLNFYVYGPDRIREPALLSKQDIVLTTYNILTHDYGT  
KGDSPLHSIRWLRVILDEGHAI RNPNAAQTKAVLDLESERRWLTGTPIQNSLKDLSLL  
SFLKLKPFIDREWWHRTIQRPTMGDEGLRRLQSLIKNITLRRTKTSKIKGKPVLELPE  
RKVFIQHITLSDEERKIYQSVKNEGRATIGRYFNEGTVLAHYADVLGLLRLRQICCHTY  
LLTNAVSSNGPSGNDTPEELRKKLIRKMKLILSSGSDEECAICLDSLTPVPVITHCAHVFC  
KPCICQVIQNEQPHAKCPLCRNDIHEDNLECPPEELARDSEKKSDMEWTSSSKINALMH  
ALTDLRKKNPNIKSLVVSQFTTFLSLIEIPLKASGFVFTRLDGSMAQKKRVESIQCFQNT  
EAGSPTIMLLSLKAGGVGLNLSAASRVFLMDPAWNPAEDQCFDRCHRLGQKQEVIIITKF  
IVKDSVEENMLKIQNKRELAAGAFGTKKPNADEMKAQAKINEIRTLIDL

>sp|Q9Y2N7|HIF3A\_HUMAN Hypoxia-inducible factor 3-alpha OS=Homo sapiens GN=HIF3A PE=1  
SV=2

MALGLQARSTTELKREKSRDAARSRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLT  
ISYLRMHRLCAAGEWNQVGAGGEPLDACYLKALEGFVMVLTAEGDMAYLSENVSKHLGLS  
QLELIGHSIFDFIHPCDQEELQDALTPQQTLSRRKVEAPTERCFSLRMKSTLTSRGRTL



LKAATWKVLNCSGHRMAYKPPAQTSAGSPDSEPLQCLVLICEAIPHPGSLEPPLGRGA  
FLSRHSLDMKFTYCDRIA EVAGYSPDDLIGCSAYEYIHALDSDAVSKSIHTLLSKGQAV  
TGQYRFLARSGGYLTQTQATVVSGGRGPQSEIVCVHFLISQVEETGVVLSLEQTEQHS  
RRPIQRGAPSKQDTPNPGDSLDTGPRI AFLHPPSLSEALAADPRRFCSPDLRRLG  
ILDGASVAATPSTPLATRH PQSPLSADLPDELPGTENVHRLFTSGKDTEAVETDL DIAQ  
DADALDLEMLAPYISMDDDFQLNASEQLPRAYHRPLGAVPRPRARSFHGLSPPALEPSLL  
PRWGSDPRLSCSSPSRGPDSASSPMAGARKRTLAQSSSEDEDEGVELLGVRPPKRSPSPEH  
ENFLFPLSLSFLLTGGPAPGSLQDPSTPLNLNEPLGLGPSLLSPYSEDETTQPGGPFQ  
PRAGSAQAD

>sp|P13747|HLAE\_HUMAN HLA class I histocompatibility antigen, alpha chain E OS=Homo sapiens GN=HLA-E PE=1 SV=3

MVDGTL LLL LSEALALTQTWAGSHSLKYFHTSVSRPGRGEPRFISVGYVDDTQFVRFDND  
AASPRMVPRAPWMEQEGSEYWDRETRSARDTAQIFRVNLRTL RGYNQSEAGSHTLQWMH  
GCELGPD RRFLRGYEQFAYDGDYLT LNEDLRSWTAVDTAAQISEQKSNDA SEAEHQRAY  
LEDTCVEWLHKYLEKGKETLLHLEPPKTHVTHHPISDHEATLR CWALGFYPAEITL TWQQ  
DGEHTQDTELVETRPAGDGT FQKWA AVVVP SGEEQRYTCHVQHEGLPEPVTLRWKPASQ  
PTIPIVGIIAGLVLLGSVVS GAVVA AVIWRKKSSGGKGSYSKA EWSDSAQGSSEHSL

>sp|Q14774|HLX\_HUMAN H2.0-like homeobox protein OS=Homo sapiens GN=HLX PE=1 SV=3

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PEGLAGASAAALTAHLG SVHPHASFQAAARSPLRPTPVVAPSEVPAGFPQRLSPLSAA YH  
HHHPQQQQQQQQPQQQPPPPPRAGALQPPASGTRVVPNPHHSGSAPAPSSKDLKFGIDR  
ILSAEFDPKVKEGNTLRDLTSLLTGGRPAGVHLSGLQPSAGQFFASLDPINEASAILSPL  
NSNPRNSVQH QFQDTPFGPYAVLT KDTMPQTYKRKRSWSRAVFSNLQRKGLEKRFEI QKY  
VTKPDRKQLAAMLGLTDAQVKVWFQNR RMKWRHSKEAQAQKDKDKEAGEKPSGGAPAADG  
EQDERSPSRSEGEAESESSDSESLD MAPSDTERTEGSEERSLHQT TVIKAPVTGALITASS  
AGSGGSSGGGGSNFSFSSASSLSSSSTSAGCASSLGGGGASELLPATQPTASSAPKSPEP  
AQGALGCL

>sp|Q9NP66|HM20A\_HUMAN High mobility group protein 20A OS=Homo sapiens GN=HMG20A PE=1 SV=1

MENLMTSSTLPPLFADEGSKESNDLATTGLNHPEVPYSSGATSSTNNPEFVEDLSQGQL  
LQSESSNAAEGNEQRHEDEQRSKRGGWSKGRKRKKPLRDSNAPKSPLTGYVRFMNERREQ  
LRAKRPEVPFPEITRMLGNEWSKL PPEEKQRYLDEADRD KERYMKELEQYQKTEAYKVFS  
RKTQDRQKGKSHRQDAARQATHDEKETEVKERSVFDIPIFTEEFLNHSKAREAELRQLR  
KSNMEFEERNAALQKHVESMR TAVEKLEVDVIQERSRNTVLQQHLETLRQVLTSSFASMP  
LPGSGETPTVDTIDSYMNRLHSIILANPQDNENFIATVREVVNRLDR

>sp|P17096|HMGA1\_HUMAN High mobility group protein HMG-I/HMG-Y OS=Homo sapiens GN=HMGA1 PE=1 SV=3

MSESSSKSSQPLASKQEKGTEKRGRGRPRKQPPVSPGTALVGSQKEPSEVP TPKRPRGR  
PKGSKNKGAATRKTTTTPGRKPRGRPKKLEKEEEEGISSESSEEQ

>sp|P26583|HMGB2\_HUMAN High mobility group protein B2 OS=Homo sapiens GN=HMGB2 PE=1 SV=2

MKGDPNKP RGMSSYAFFVQTCREEHKKKHPDSSVNF AEFSSKKCSERWKTMSAKEKSKF  
EDMAKSDKARYDREMKNYVPPKGDKKGKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGL  
SIGDTAKKLGEMWSEQSAKDKQPYEQKAAKLKEKYEKDIAAYRAKGKSEAGKKGPGRPTG  
SKKKNEPEDEEEEEEEEEDEEEEEDEEE

>sp|Q8TB92|HMGCL1\_HUMAN 3-hydroxymethyl-3-methylglutaryl-CoA lyase, cytoplasmic OS=Homo sapiens GN=HMGCL1 PE=1 SV=3

MGNVPSAVKHCLSYQQLREHLWIGDSVAGALDPAQTSLLTNLHCFQPDVSGFSVSLAGT  
VACIHWETSQLSGLPEFVKIVEVGPRDGLQNEKVIVPTDIKIEFINRLSQTGLSVIEVTS  
FVSSRWVPQMADHTEVMKGIHQYPGVRYPVLTPLNLQGFHHAVAAGATEISVFGAASESFS  
KKNINCSIEESMGKFEEVVK SARHMNIPARGYVSCALGCPYEGSITPQKVTEVSKRLYGM  
GCYEISLGDITIGVTPGSMKRMLESVMKEIPPGALAVHCHDITYGQALANILTALQMGINV  
VDSAVSGLGGCPYAKGASGNVATEDLIYMLNGLGLNTGVNLYKVMEAGDFICKAVNKTN  
SKVAQASFNA

>sp|Q12766|HMGX3\_HUMAN HMG domain-containing protein 3 OS=Homo sapiens GN=HMGXB3 PE=2 SV=2

MQRTQPRPCYLNAPQQCPGAERPGRPTAGSHSFLLRPGPLAGSSPFALLDPLQAFEQFVW  
VRSQARAGLLRLRQGSHAVTRCRPLPVRREGRRDGPWRSVVCRCRCSRQTGASVTTVS  
LPSSSSSPGLDPRGPRQASVRSRSEPVLLFLPFRTPYRDSEEGKREGLSRLRAVCRRAG  
PRGRGSFSPRDARASPRHLFLVAAVTTGAASRRQRGARVRQSPSSSRRAKRLRECERRS  
LHAPPAMDASYDGTETVVMEEIEEAYCYTSPGPPKKKKYKIHGEKTKKPRSAIYLLYYY  
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VPDIPGFRKILPRSDYIIIPKSSLQEDRSCPQLELCVAQNMSPKGPPLVSNTAPETVPS  
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VENPTSIKLTTTTYTRRHGTCTSPGCSFTYVTRHKPPKCPTCGNFLGGKWIPKEKPAKVK  
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WEEV IISDAHVLVKEAPGNCGTAVTKTPVVKSGVQPEVTLGTTDNDSPGADVPTPSEGTS  
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LPRARQAFSLSDKTPSVRTCGLKPSTLKLQGP IQQPSGPGEVKLPSGPSNRTSQVKVVE  
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ASRLQTVTAQVKMCLNPHCLALHSFIDIYTG LFNVGKLLVSLDLLFAIRNQIKLGEDPR  
VSINVVLKSVQEQT ETKLTSEELSQLQELLNGYWAFECTVRDYNDMICGICGVAPKVE  
MAQRSEENVLALKSVEFTWPEFLGSNEVNVEDFWATMETEVIEQVAFPASIPITKFDASV  
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LRQCGIPFGAEDSKDQLCFSLLALYESVQNGARAI RPPRHFTGGKIYKVCPHQVVC GSKY  
LVRGESARDHVDLLASSRHWPVYVVD MATSVALCADLCYPELTNQMWGRNQGCFS SPT  
PPVSVSCPELLDQHYTVDMTETEHSIQHPVTKTATRRIVHAGLQPNPGDPSAGHHS LALC  
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CQPGEVVIRDTLYRLGVAQIKTETEEEEEEEEVA AVE

>sp|Q92619|HMAH1\_HUMAN Minor histocompatibility protein HA-1 OS=Homo sapiens GN=HMAH1 PE=1 SV=2

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ADVARFAEGLEKLKECVLRDLDLEARRPRAHECLGEALVMHQIISKYPLLNTVETLTAA  
GTLIAKVKAFHYESNNDLEKQEFKALETIAVAFSSTVSEFLMGEVDSSTLLAVPPGDSS  
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SYLEKRTTLEMEFAKGLQKIAHNCRQSVMQEPHMLLSIYSLALEQDLEFGHSMVQAVGT  
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FLVAKAEQAGSAPGAGSTATKTLDKRRRLEEEAKNAEEAMATYRTCVAADAKTQKQEL  
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RVIETLIVHYGLVFEEPEETPGGQDESSNQRAEVVVQVPYLEAGEAVVYPLQEAADGC  
RESRVVSNDSDSLSEASELLSSSEASALGHLSFLEQQQSEASLEVASGSHSGSEEQLEA  
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>sp|S4R3P1|HMN13\_HUMAN Humanin-like 13 OS=Homo sapiens GN=MTRNR2L13 PE=3 SV=1

MDTQGFSCLLLLISEIDLSVKRRI

>sp|P50135|HNMT\_HUMAN Histamine N-methyltransferase OS=Homo sapiens GN=HNMT PE=1 SV=1

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GGAGEIDLQILSKVQAQYPGVCINNEVEPSAEQIAKYKELVAKTSNLENVKFAWHKETS  
SEYQSRMLEKKELQKWDFIHMIMLYYVKDIPATLKFFHSLGTNAKMLIIVVSGSSGWD  
KLWKYGSRFPQDDLQCYITSDDLTQMLDNLGLKYECYDLLSTMDISDCFIDGNENGDLL  
WDFLTETCNFNATAPPDLRAELGKDLQEPEFSAKKEGKVLFNNTLSFIVIEA

>sp|P31943|HNRH1\_HUMAN Heterogeneous nuclear ribonucleoprotein H OS=Homo sapiens  
GN=HNRNPH1 PE=1 SV=4

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GCSKEEIVQFFSGLIIVPNGITLPVDFQGRSTGEAFVQFASQIEAEKALKKKHKERIGHRY  
IEIFKSSRAEVRTHYDPPRKLAMQRPQPYDRPGAGRGYNSIGRGAGFERMRRGAYGGGY  
GGYDDYNGYNDGYGFGSDRFRDLNYCFSGMSDHRYGDGGSTFQSTTGHCVHMRGLPYRA  
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSKDKANMQHRYVELF  
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>sp|Q9BUJ2|HNRL1\_HUMAN Heterogeneous nuclear ribonucleoprotein U-like protein 1 OS=Homo  
sapiens GN=HNRNPUL1 PE=1 SV=2

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ESGYERRPLEMEQQAYRPEMKTEMKQGAPTSFLPPEASQLKPDRQQFQSRKRPYEENRG  
RGYFEHREDRRGRSPQPAEDEDDFDDTLVAIDTYNCDLHFKVARDRSSGYPLTIEGFA  
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SYGYGGTGKKSTNSRFENYGDKFAENDVIGCFADFECNDVELSFTKNGKWMGIAFRIQK  
EALGGQALYPHVLKNCABEFNFGQRAEPYCSVLPGFTFIQHLPLSERIRGTVGPKSKAE  
CEILMMVGLPAAGKTTWAIKHAASNPSKKYNILGTNAIMDKMRVMGLRRQRNYAGRWDVL  
IQQATQCLNRLIQIAARKKRNYYILDQTNVYGSQRRKMRPFEGFQRKAIVICPTDEDLKD  
RTIKRTDEEGKDVDPHAVLEMKANFTLPDVGDFLDEVLFIELQREEADKLVRQYNEEGRK

AGPPPEKRFDNRRGGGFRGRGGGGFQRYENRGPPEGNRGGFQNRGGGSGGGGNRGGFN  
RSGGGGYSQNRWGNNRDNNNSNNRGSYNRAPQQQPPPPQPPPPQPPPPPSYSPA  
RNPPGASTYNKNSNIPGSSANTSTPTVSSYSPPQPSYSQPPYNQGGYSQGYTAPPPPPP  
PPAYNYGSYGGYNPAPYTPPPPTAQTYPQPSYNQYQQYAQQWNQYYQNQGQWPPYYGNY  
DYGSYSGNTQGGTSTQ

>sp|Q14103|HNRPD\_HUMAN Heterogeneous nuclear ribonucleoprotein D0 OS=Homo sapiens  
GN=HNRNPD PE=1 SV=1

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AESEGAIDASKNEEDEGHSNSSPRHSEAATAQREEWKMFIGGLSWDTTKDLKDYSKF  
GEVVDCTLKLDPITGRSRGFGFVLFKESESVDKMDQKEHKLNGKVIDPKRAKAMKTKEP  
VKKIFVGGLSPTPEEKIREYFGGFGEVESIELPMDNKTNKRGGFCFITFKEEEPVKKIM  
EKKYHNVGLSKCEIKVAMSKEQYQQQQWGSRRGFAGRARGRGGGPSQNNQGYSNYNQ  
GYGNYGYNSQGYGGYGGYDYGYNYYGYGDYSNQQSGYGKVSRRGGHQNSYKPY

>sp|P52272|HNRPM\_HUMAN Heterogeneous nuclear ribonucleoprotein M OS=Homo sapiens  
GN=HNRNPM PE=1 SV=3

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MEESMKAAEVLNKHLSGRPLKVKEDPDGEHARRAMQKVMATTGGMGMGPGGPGMITIP  
PSILNPNIPNEIIHALQAGRLGSTVFVANLDYKVGWKKLKEVFSMAGVVVRADILEDKD  
GKSRGIGTVTFEQSIEAVQAISMFGQLLFDRPMHVKMDERALPKGDFPPPERPQQLPHG  
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LERMGVMDRMATGLERMGANNLERMGLERMGANSLERMGLERMGANSLERMGAMPAL  
GAGIERMGLAMGGGGGASFDRAIEMERGNFGGSFAGSFGGAGGHAPGVARKACQIFVRNL  
PFDFTWKMLKDKFNECGHVLYADIKMENGKSKGCGVVKFESPEVAERACRMMNGMKLSGR  
EIDVRIDRNA

>sp|P84074|HPCA\_HUMAN Neuron-specific calcium-binding protein hippocalcin OS=Homo sapiens  
GN=HPCA PE=1 SV=2

MGKQNSKLRP EMLQDLRENTFSELELQEWYKGLKDCPTGILNVDEFKKIYANFFPYGD  
ASKFAEHVFRFTDNTSDGTIDFREFIIALSVTSRGRLEQKLMWAFSMYDLGNGYISREE  
MLEIVQAIYKMVSSVMKMPDESTPEKRTEKIFRQMDTNNDGKLSLEEFIRGA KSDPSIV  
RLLQCDPSSASQF

>sp|Q96IR7|HPDL\_HUMAN 4-hydroxyphenylpyruvate dioxygenase-like protein OS=Homo sapiens  
GN=HPDL PE=1 SV=1

MAAPALRLCHIAFHVPAGQPLARNLQRLFGFQPLASREVDGWRQLALRSGDAVFLVNEGA  
GSGEPLYGLDPRHAVPSATNLCFDVADAGAATRELAALGCSVPVPPVRVRDAQGAATYAV  
VSSPAGILSLTLERAGYRGPFLPGFRPVSSAPGPGWVSVDHLTLACTPGSSPTLLRWF  
HDCLGFCHLPLSPGEDPELGLEMTAGFGLGGLRLTALQAQPGSIVPTLVLAESLPGATTR  
QDQVEQFLARHKGPGLQHVGLYTPNIVEATEGVATAGGQFLAPPGAYYQQPGKERQIRAA  
GHEPHLLARQGILLDGDGKGFLLQVFTKSLFTEDTFFLELIQRQGATGFGQGNIRALWQS  
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>sp|P34931|HS71L\_HUMAN Heat shock 70 kDa protein 1-like OS=Homo sapiens GN=HSPA1L PE=1 SV=2

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AAIAYGLDKGGQGERHVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLV  
SHFVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQANLEIDSLYEGIDFYTSIT  
RARFEELCADLFRGTLEPVEKALRDAKMDKAKIHDIIVLVGGSTRIPKVQRLQDYFNGRD  
LNKSNPDEAVAYGAAVQAAIILMGDKSEKVQDLLLLDVAPLSLGLETAGGVMTALIKRNS  
TIPTKQTQIFTTYSNQPGVLIQVYEGERAMTKDNNLLGRFDLTGIPPAPRGVPQIEVTF  
DIDANGILNVTATDKSTGKVNKITITNDKGRLSKEEIERMVLDAEKYKAEDVQREKIAA  
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>sp|Q58FG1|HS904\_HUMAN Putative heat shock protein HSP 90-alpha A4 OS=Homo sapiens  
GN=HSP90AA4P PE=5 SV=1

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VLQAGADISMIGQFSVGFYSAYSVAEKVTVITKHNNDEQYAWESSLRGSFTEYREFYKSL  
TINWEDYLAVKHFSVEGQLEFRAFLFVPRAPFELLETRKKKNKIKLSARRDLIMDNCEE  
LIPEYLNFIIRGVVDSEDLPNIFRETKDQVANSTIVQRLWKHGLEVIYTIPIDEYCVQQ  
LKEFEGKTLVSVTKEDLELPEDEEEKKKQEEGKQKTKQKKNSLRTSAKSTYGTANMER  
IMKAQALRDNSTGYMAAKKHLEINPDHSFIDTLRQKAETDKNDKSVKDLVILLYETALL  
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>sp|Q15751|HERC1\_HUMAN Probable E3 ubiquitin-protein ligase HERC1 OS=Homo sapiens  
GN=HERC1 PE=1 SV=2

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DGSVRACGKGSYRGLGLGDSNNQSTLKKLTFEPHRSIKKVSSSKGSDGHTLAFTTEGEVF  
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RVYKPKVIEALQGMFIRKVCAGSQSSLALTSTGQVYAWGCGACLGCGSSEATALRPKLI  
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QQISAGTSHSLAWTALPRDRQVVAWHRPYCDLEESTFSLHRSFLERYCDKINSEIPPLP  
FPSSREHHSFLKCLKLLSNHLALALAGGVATSI LGRQAGPLRNLLFRLMDSTVPDEIQE  
VVIETLSVGATMLPPLRERMELLHSLLPQGPDRWESLSKGQRMQLDIILTSLQDHTHVA  
SLLGYSSPSDAADLSSVCTGYGNLSDQPYGTQSCHPDTHLAEILMKTLLRNLFYTDQAF  
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LLLPHATDIYSRSANLLKESPWNGSVGEKLRDVIYVSAAGSMLCQIVNSLLLLPVSVARP  
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LERTIALLI GRCLGGMLQGSPVSPPEQDTAYWMKTPLFSDGVEMDTPQLDKCMSCILLEVA

LSGNEEQKPFDYKLRPEIAVYVDLALGCSKEPARSLWISMQDYAVSKDWSATLSNESLL  
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SSRDRWISENQDSADVPQEHSTRTIDEEAEMEEQAERDREEGHPEPEDEEEEREHEVM  
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QSKMASPKWTEVLLNIASQKCSSGIPLVGNLRTLLALHVLEAVLPACESGVEDDQMAQI  
VERLFSLLSDCMWETPIAQAKHAIQIKEKEQEIKLQKQGELEEDENLP IQEVSFDPEKA  
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Y

>sp|Q9UII4|HERC5\_HUMAN E3 ISG15--protein ligase HERC5 OS=Homo sapiens GN=HERC5 PE=1 SV=2

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LNFFVEVCRRYLWKMTVDASENVQCCVIFSHFPFIFNNLSKIKLLHTDTLLKIESKKHKA  
YLRSAATEERESEFALRPTFDLTVRRNHLIEDVLNQLSQFENEDLRKELWVSFSGEIGY  
DLGGVKKEFFYCLFAEMIQPEYGMFMYPEGASCMWFPVKPKFEKKRYFFFGVLCGLSLFN  
CNVANLPFPLALFKLLDQMP SLEDLKE LSPDLGKNLQTLDDDEGDNFEEVFYIHFNVHW  
DRNDTNLIPNGSSITVNQTNKR DYVSKYIN YIFNDSVKAYEEFRRGFYKMCDEDI IKLF  
HPEELKDVIVGNTDYDWKTFEKNARYEPGYNSSHTIVMFWKA FHKLTLEKKKFLVFLT  
GTDRLQMKDLNNMKITFC CPESWNERDPIRALTCFSVLFLPKYSTMETVEEALQEAINNN  
RGFG

>sp|Q15011|HERP1\_HUMAN Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-  
like domain member 1 protein OS=Homo sapiens GN=HERPUD1 PE=1 SV=1

MESETEPEPVTLVKSPNQRHRDLELSGDRGWSVGHLKAHL SRVYPERPRPEDQRLIYSG  
KLLLDHQCLRDLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTE EPAGSNRGQYPEDS  
SSDGLRQREVLRNLSSPGWENISRPEAAQAFQGLGPGFSGYTPYGWLQLSWFQQIYARQ  
YYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQPANQNAAPQVVNPGA  
NQNLRMNAQGGPIVEEDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVM

YLHHVGFPPFRPRPVQNFPPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVL DGE  
QTSPSFMSTAWLVFKTFFASLLPEGPPAIAN

>sp|Q9Y543|HES2\_HUMAN Transcription factor HES-2 OS=Homo sapiens GN=HES2 PE=2 SV=1  
MGLPRRAGDAAELRKSLKPLLEKRRRARINQSLSQLKGLIPLLGRENSNCSKLEKADVL  
EMTVRFLQELPASSWPTAAPLPCDSYREGYSACVARLARVLPACRVLEPAVSARLLEHLW  
RRAASATLDGGRAGDSSGPSAPAPAPASAPEPASAPVSPSPSPCGPLWRPW

>sp|Q9HCC6|HES4\_HUMAN Transcription factor HES-4 OS=Homo sapiens GN=HES4 PE=2 SV=1  
MAADTPGKPSASPMAGAPASASRTPDKPRSAAEHRKSSKPVMEKRRRARINESLAQLKTL  
ILDALRKESRHSKLEKADILEMTVRHLRSLRRVQVTAALSADPAVLGKYRAGFHECLAE  
VNRFLAGCEGVPADVRSRLGHAAACLRQLGPSRRPASLSPAAPAEAPAEVYAGRPLLP  
SLGGPFPLLPPLPGLTRALPAAPRAGPQGGPWWRPWLR

>sp|Q8WVB3|HEXDC\_HUMAN Hexosaminidase D OS=Homo sapiens GN=HEXDC PE=2 SV=3  
MSGSTPFQMRLVHLDLKGAPPKVSYLSEIFPLFRALGANGLLIEYEDMFPYEGPLRLLRA  
KYAYSPSEIKEILHLAGLNELEVIPLVQTFGHMEFVLKHTAFAHLREVGSFPCTLNPHEA  
ESLALVGAMIDQVLELHPGAQRLHIGCDEVYYLGEGEASRRWLQQEQNSTGKLCCLSHMRA  
VASGVKARRPSVTPLVWDDMLRDLPEDQLAASGVPQLVEPVLDYTDLDVHGKVLMMQK  
YRRCGFPQLWAASAFKGATGPSQAVPPVEHHLRNHVQWLQVAGSGPTDSLQGIILTGWQR  
YDHYSVLCELLPAGVPSLAACLQLLLRGGFDEDVKAKVENLLGISSLEKTDVPREGAGSF  
PGSNILALVTQVSLHLRSSVDALLEGNRYVTGWFSPIYHRQRKLIHPVMVQHIQPAALSLL  
AQWSTLVQELEAALQLAFYPDAAVEEWLEENVHPSLQRLQALLQDLSEVSAPPLPPTSPGR  
DVAQDP

>sp|O94992|HEXI1\_HUMAN Protein HEXIM1 OS=Homo sapiens GN=HEXIM1 PE=1 SV=1  
MAEPFLSEYQHQPQTSNCTGAAAVQEELNPERPPGAEERVPEEDSRWQSRAFPQLGGRPG  
PEGEGLSLESQPPPLQTQACPESSCLREGEKGQNGDDSSAGGDFPPPAEVEPTPEAELLAQ  
PCHDSEASKLGAPAGGEEWGQQRQLGKKKHRRRPSKKKRHWKPYKLTWEEKKKFDE  
KQSLRASRIRAEMFAKGQPVAPYNTTQFLMDDHDQEEPDLKTGLYSKRAAAKSDDTSDDD  
FMEEGGEEDGGSDGMGGDGSEFLQRDFSETYERYHTESLQNSKQELIKEYLELEKCLSR  
MEDENNRLRLESKRLGGDDARVRELELELDRLRAENLQLLTENELHRQGERAPLSKFGD

>sp|Q9Y5J3|HEY1\_HUMAN Hairy/enhancer-of-split related with YRPW motif protein 1 OS=Homo sapiens GN=HEY1 PE=1 SV=1

MKRAHPEYSSDSELDDETIEVEKESADENGLSSALGMSPTTSSQILARKRRRGIIIEKR  
RRDRINNSLSELRLVPSAFEKQGSAKLEKAEILQMTVDHLKMLHTAGGKG YFDAHALAM  
DYRSLGFRECLAEVARYLSIIIEGLDASDPLRVRLVSHLN NYASQREAAASGAHAGLGHIPW  
GTVFGHHPIAHPLLPQNGHGNAGTTASPTEPHHQGRLSAHPEAPALRAPPSGSLGPV  
LPVVTASAKLSPLLSVASLSAFPFSFGSFHLLSPNALSPSAPTQAANLGKPYRPWGTE  
IGAF

>sp|Q9UBP5|HEY2\_HUMAN Hairy/enhancer-of-split related with YRPW motif protein 2 OS=Homo sapiens GN=HEY2 PE=1 SV=1

MKRPCETTSSESDMDETIDVGSENNYSGQSTSSVIRLNSPTTTSQIMARKKRRGIIIEKRR  
RDRINNSLSELRLVPTAFEKQGSAKLEKAEILQMTVDHLKMLQATGGKG YFDAHALAMD  
FMSIGFRECLTEVARYLSSVEGLDSSDPLRVRLVSHLSTCATQREAAAMTSSMAHHHHPL  
HPHHWAAAFHHLPAALLQPNGLHASESTPCRLSTTSEVPPAHGSALLTATFAHADSALRM  
PSTGSVAPCVPLSTSLLSLATSATVHAATAAAHSFPLSFAGAFPM LPPNAAA VAAA  
TAISPPLSVSATSSPQQTSSGTNNKPYRPWGTEVGAF



>sp|Q9H422|HIPK3\_HUMAN Homeodomain-interacting protein kinase 3 OS=Homo sapiens GN=HIPK3  
PE=1 SV=1

MASQVLVYPPYVYQTQSSAFCSVKKLKVEPSSCVFQERNYPRTYVNGRNFGNSHPPTKGS  
AFQTKIPFNRPRGHNFSLQTSAAVLKNTAGATKVIAAQAQQAHVQAPQIGAWRNRLHFLE  
GPQRCGLKRKSEELDNHSSAMQIVDELSILPAMLQTNMGNPVTVVTATTGSKQNCTTGEG  
DYQLVQHEVLCSMKNITYEVLDFLGRGTFGQVVKCWKRGTEIVAIAIKILKNHPSYARQGQI  
EVSILARLSTENADEYNFVRAYECFQHRNHTCLVFEMLEQNLDFLKQNKFSPLPLKVIR  
PILQQVATALKKLSGLIHADLPENIMLVDPVRQPYRVKVIDFGSASHVSKTVCSTYL  
QSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGALEYDQIRYISQTQGLPGE  
QLLVNGTKSTRFFCKETDMSHSGWRLKTL EEHEAETGMKSKEARKYIFNSLDDVAHVNTV  
MDLEGSDLLAEKADRREFVSLKKMLLIDADLRITPAETLNHPFVNMKHLDFPHSNHVK  
SCFHIMDICKSHLNSCDTNNHNKTSLLRPVASSSTATLTANFTKIGTLRSQALTTSASHSV  
VHHGIPLQAGTAQFGCGDAFQQTLIICPPAIQGIPATHGKPTSYSIRVDNTVPLVTQAPA  
VQPLQIRPGVLSQTSWGRGTQQMLVPAWQQVTPLAPATTTLTSESVAGSHRLGDWGMISC  
SNHYNVMPQPLL TNQITLSAPQPVSVGIAHVVPQATTCKNKQCQNRGILVKLMEWEP  
GREEINAFSWSNSLQNTNIPHSAFISPKIINGKDV EEVSCIETQDNQNSEGEARNCCETS  
IRQSDSSVSDKQRQTII IADSPSPAVSVITISSDTDEEETSQRHSLRECKGSLDCEACQ  
STLNIDRMCSLSSPDSTLTSSSGQSSPSPCKRPNSMSDEEQESSCDTVDGSPSDSSGH  
DSPFAESTFVEDTHENTLVSSADTETKPAVCSVVVPPVELENGLNADEHMANTDSICQP  
LIKGRSAPGRNLNQSAPVGTQQKLTSAFQQQHLNFSQVQHFGSGHQEWNGNFHRRQQAY  
IPTSVTSNPFTLSHGSPNHTAVHAHLAGNTHLGGQPTLLPYPSATLSSAAPVAHLLASP  
CTSRPMLQHPTYNISHPSGIVHQVPVGLNPRLLPSPTIHQTQYKPIFPPHSYIAASPAYT  
GFPLSPTKLSQYPYM

>sp|Q9Y5L2|HLPDA\_HUMAN Hypoxia-inducible lipid droplet-associated protein OS=Homo sapiens  
GN=HILPDA PE=1 SV=1

MKHVLNLYLLGVVLTLLSIFVRVMESLEGLLESPPGTSWTTRSQLANTEPTKGLPDHPS  
RSM

>sp|Q9POW2|HM20B\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily E member 1-related OS=Homo sapiens GN=HMG20B PE=1 SV=1

MSHGPKQPGAAAAPAGGKAPGQHGGFVVTVKQERGEPRAGEKGSHEEEPVKKRGWPKGK  
KRKKILPNGPKAPVTGYVRFLNERREQIRTRHPDLPFPEITKMLGAWSKLQPTKQRYL  
DEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGDCDGF  
STFDVPIFTEEFLDQNKAREELRRLKMNVAFEEQNAVLQRHTQSMSSARERLEQELAL  
EERRTLALQQQLQAVRQALTASFASLPVPGTGETPTLGTLD FYMARLHGAIERDPAQHEK  
LIVRIKEILAQVASEHL

>sp|P19622|HME2\_HUMAN Homeobox protein engrailed-2 OS=Homo sapiens GN=EN2 PE=2 SV=3

MEENDPKPGAAAAVEGQRQPESSPGGGSGGGGSSPGEADTGRRRALMLPAVLQAPGNH  
QHPHRITNFFIDNILRPEFGRRKDAGTCCAGAGGGRGGGAGGEGGASGAEGGGAGGSEQ  
LLGSGSREPRQNPPCAPGAGGPLPAAGSDSPGDGEGGSKTSLHGGAKKGGDPGGPLDGS  
LKARGLGDDLVSSDSDSSQAGANLGAQPMLWPAWVYCTRYSDRPSSGPRSRKPKKKNP  
NKEDKRPRTAFTAEQLQRLKA EFQTNRYLTEQRRQSLAQELSLNESQIKIWFQNKRAKIK  
KATGNKNTLAVHMAQGLYNHSTTAKEGKSDSE

>sp|A2RU54|HMX2\_HUMAN Homeobox protein HMX2 OS=Homo sapiens GN=HMX2 PE=2 SV=1

MGSKEDAGKGC PAAGGVSSFTIQSILGGGPSEAPREPVGWPARKRSLSVSSEEEEPDDGW

KAPACFCPDQHGPKEQGPKHHPIPFCLGTPKSGSGPGGLERTPFLSPSHSDFKEEK  
ERLLPAGSPSPGSEPRDGAERQAGAAKKKTRTVFSRSQVYQLESTFDMKRYLSSSERA  
CLASSLQLTETQVKTWQNRNRNKWKRQLSAELEAANMAHASAQTIVSMPLVFRDSSLRLV  
PVPRSLAFPAPLYPGSNLSALPLYNLNKLKY

>sp|B2RXH8|HNRC2\_HUMAN Heterogeneous nuclear ribonucleoprotein C-like 2 OS=Homo sapiens  
GN=HNRC2 PE=1 SV=1

MASVNTKMDPHSVNSRVFIGNLNTLVVKKSDVEAIFSKYKGIAGCSVHKGFVQYDKE  
KNARAAVAGEDGRMIASQVAVINLAAEPKVNRRGNAGVKRSAAEMYGSSFDLDYGFQRDYY  
DGMYSFPARVPPPPIALAVVPSKRQRISGNTSRRGKSGFNSKSGKRGSSKSGKLKGGDL  
QAIKQELTQIKQKVDLLENLEKIEKEQSKQEVEVKNAKSEEEQSSSSMKKDETHVKMES  
EGGAEDSAEEDPLDDDDNEDQGDNLHLIKNNEKDAEEGEDNRDSTNGQDD

>sp|O14979|HNRLD\_HUMAN Heterogeneous nuclear ribonucleoprotein D-like OS=Homo sapiens  
GN=HNRLD PE=1 SV=3

MEVPPRLSHVPPPLFPSAPATLASRSLSHWRPRPPRLAPLLPSLAPSSARQGARRAQRH  
VTAQQPSRLAGGAAIKGRRRRPDLFRRHFKSSSIQRSAAAAATRTARQHPADSSVTM  
EDMNEYSNIEEFAEGSKINASKNQDDGKMFIGGLSWDTSKKDLTEYLSRFGEVVDCTIK  
TDPVTGRSRGFGFVLFKDAASVDKVLLEKHKLDGKLIDPKRAKALKGKPPKKVFGGL  
SPDTSEEQIKYFGAFGEIENIELPMDTKTNERRGFCFITYTDEEPVKKLLESRYHQIGS  
GKCEIKVAQPKEVYRQQQQQKGGRGAAAGGRGGRGRGRGQGNWNQGFNNYYDQGYGN  
YNSAYGGDQNYSGYGGYDYGNYGNYGYGGYADYSQQSTYKASRGGGNHQNYYQPY

>sp|P31942|HNRH3\_HUMAN Heterogeneous nuclear ribonucleoprotein H3 OS=Homo sapiens  
GN=HNRH3 PE=1 SV=2

MDWVMKHNGPNDASDGTVRLRGLPFGCSKEEIVQFFQGLEIVPNGITLTMDYQGRSTGEA  
FVQFASKEIAENALGKHKERIGHRYIEIFRSSRSEIKGFYDPPRLLGQRPQPYDRPIGG  
RGGYYGAGRGSMDRMRGGDGYDGGYGGFDDYGGYNNYGYGNDGFDDMRDGRMGGHG  
YGGAGDASSGFHGGHFVHMRGLPFRATENDIANFFSPLNPIRVHIDIGADGRATGEADVE  
FVTHEDAVAAMSKDKNNMQHRYIELFLNSTPGGSGMGGSGMGYGRDGMNQGGYGSVG  
RMGMGNYSGGYGTDPGLGGYGRGGGSGGYGQGMSSGGWGRMY

>sp|P37235|HPCAL1\_HUMAN Hippocalcin-like protein 1 OS=Homo sapiens GN=HPCAL1 PE=1 SV=3

MGKQNSKLRLPEVLQDLRENTFTDHELQEWYKFLKDCPTGHLTVDEFKKIYANFFPYGD  
ASKFAEHVFTFTDNGDGTIDFREFIIALSITSRGKLEQLKWAFSMYDLDDNGYISRSE  
MLEIVQAIYKMSVSSVMKPEDESTPEKRTDKIFRQMDTNDGKLSLEEFIRGAKSDPSIV  
RLLQCDPSSASQF

>sp|O60760|HPGDS\_HUMAN Hematopoietic prostaglandin D synthase OS=Homo sapiens GN=HPGDS  
PE=1 SV=3

MPNYKLTYNMRGAEIIRYIFAYLDIQYEDHRIEQADWPEIKSTLPFGKIPILEVDGLT  
LHQLAIARYLTKNLTLAGNTEMEQCHVDAIVDTLDDFMSCFPWAEEKQDVKEQMFNELL  
TYNAPHLMQDLDTYLGGREWLIGNSVTWADFYWEICSTTLLVFKPDLLDNHPRLVTLRKK  
VQAIPAVANWIKRRPQTKL

>sp|Q9GZV7|HPLN2\_HUMAN Hyaluronan and proteoglycan link protein 2 OS=Homo sapiens  
GN=HPLN2 PE=2 SV=1

MPGWLTLPTLCRFLWAFITFHKAQGDPAHPGPHYLLPPIHEVIHSHRGATATLPCVLG  
TTTPSYKVRWSKVEPGELETLILITNGLHARGYGPLGGRARMRRGHRLDASLVIAGVRL  
EDEGRYRCELINGIEDESVALTSLLEGVVFYQPSRGRYQFNYYEAKQACEEQDGLATY

SQLYQAWTEGLDWCNAGWLLEGSVRYPVLTARAPCGGRGRPGIRSYGPRDRMRDRYDAFC  
FTSALAGQVFFVPGRLTLSEAHACRRRGAVVAKVGHLAAWKFSGLDQCDGGWLADGSV  
RFPITTPRPRCGGLPDPGVRSFGFPRPQQAAYGTICYAEN

>sp|Q96S86|HPLN3\_HUMAN Hyaluronan and proteoglycan link protein 3 OS=Homo sapiens  
GN=HAPLN3 PE=2 SV=1

MGLLLLVLPLLLPGSYGLPFYNGFYYSNSANDQNLGNGHGKDLLNGVKLVVETPEETLFT  
YQGASVILPCRYRYEPALVSPRRVRVKWKLSENGAPEKDLVAIGLRHRSFGDYQGRVH  
LRQDKEHDVSLEIQDLRLLEDYGRYRCEVIDGLEDESGLVELELRGVVFPYQSPNGRYQFN  
FHEGQQVCAEQAAVASFEQLFRAWEEGLDWCNAGWLQDATVQYPIMLPRQPCGGPGLAP  
GVRSYGPRHRLHRYDVFCFATALKGRVYYLEHPEKLTLEAREACQEDDATIAKVGQLF  
AAWKFHGLDRCDAGWLADGSVRYPVVHPHPNCGPPEPGVRSFGFPDPQSRLYGVCYRQH

>sp|Q9UM44|HHLA2\_HUMAN HERV-H LTR-associating protein 2 OS=Homo sapiens GN=HHLA2 PE=1  
SV=1

MKAQTALSFFLILITSLSGSQGIFPLAFFIYVPMNEQIVIGRLDEDIILPSSFERGSEVV  
IHWKYQDSYKVHSYKGSDHLESQDPRYANRTSLFYNEIQNGNASLFFRRVSLLDEGIYT  
CYVGTAIQVITNKVVLKVGVLTPVMKYEKRTNSFLICSVLSVYPRPIITWKMDNTPIS  
ENNMEETGSLDSFSINSPLNITGSNSSYECTIENSLLKQWTWGRWTMKDGLHKMQSEHVS  
LSCQPVDYFSPNQDFKVTWSRMKSGTFSVLAYYLSSSQNTIINESRFSWNKELINQSDF  
SMNLMDLNLSDSGEYLCNISSDEYTLTIHTVHVEPSQETASHNKGLWILVPSAILAAFL  
LIWSVKCCRAQLEARRRHPADGAQQERCCVPPGERCPSAPDNGEENVPLSGKV

>sp|Q6NVY1|HIBCH\_HUMAN 3-hydroxyisobutyryl-CoA hydrolase, mitochondrial OS=Homo sapiens  
GN=HIBCH PE=1 SV=2

MGQREMWRMSRFNAFKRTNTILHHLRMSKHTDAAEEVLLEKKGCTGVITLNRPKFLNAL  
TLNMIRQIYPQLKKWEQDPETFLIIKAGGKAFCAGGDIRVISEAEKAKQKIAPVFFRE  
EYMLNNAVGCQKPYVALIHGITMGGGVGLSVHGQFRVATEKCLFAMPETAIGLFPDVGG  
GYFLPRLQGKGLGYFLALTGFRLKGRDVYRAGIATHFVDSEKLAMLEEDLLALKSPSKENI  
ASVLENYHTESKIDRDKSFILEEHMDKINSCFSANTVEEIIENLQQDGSSFALEQLKVIN  
KMSPTSLKITLRQLMEGSSKTLQEVLTMEYRLSQACMRGHDFHEGVRAVLIDKDQSPKWK  
PADLKEVTEEDLNNHFKSLGSSDLKF

>sp|Q14526|HIC1\_HUMAN Hypermethylated in cancer 1 protein OS=Homo sapiens GN=HIC1 PE=1  
SV=5

MTFPEADILLKSGECAGQTMLDTMEAPGHSRQLLLQLNNQRTKGFLCDVIIVVQNALFRA  
HKNVLAASSAYLKSLVVHDNLLNLDHDMVSPAVFRLVLDFIYTGRLADGAEAAAAA VAP  
GAEPSLGAVLAAASYLQIPDLVALCKKRLKRHGKYCHLRGGGGGGGYAPYGRPGRGLRA  
ATPVIQACYPSPVGP PPPPAEPPSGPEAAVNTHCAELYASGPGPAAALCASERRCSPLC  
GLDLSKKSPPGSAAPERPLAERELPPRPDSPPSAGPAAYKEPPLALPSLPPLPFQKLEEA  
APPSDPFRGGSGSPGPEPPGRPDGPSLLYRWMKHEPGLGSYGDELGRERGSPSERCEERG  
GDAVSPGGPPLGLAPPPRYPGSLDGPAGAGDGDYKSSSEETGSSSEDSPPPGGHLEGYP  
CPHLAYGEPESFGDNLYVCIPCGKGFPSSEQLNAHVEAHVEEEEALYGRAEAAEVAAGAA  
GLGPPFGGGGDKVAGAPGGLGELLRPYRCASCDKSYKDPATLRQHEKTHWLTRYPCTIC  
GKKFTQQRGTMTRHMRSHLGLKPFACDACGMRFRQYRLTEHMRIHSGEKPYECQVCGGKF  
AQQRNLI SHMKMHAVGGAAGAAGALAGLGGLPGVPGPDGKGKLD FPEGVFAVARLTAEQL  
SLKQQDKAAAAELLAQTTHFLHDPKVALESYPLAKFTAELGLSPDKAAEVLSQGAHLAA  
GPDGRTIDRFSPT

>sp|Q4VC39|HIG2B\_HUMAN Putative HIG1 domain family member 2B OS=Homo sapiens GN=HIGD2B PE=5 SV=1

MATLGFTPEAPFESSKPIFEGLSPTVYSNPEGFKKFLRKTRENPVVPIGFLCTAAVL  
TNGLYCFHQNSQCSRLMMHTQIAAQGFTIAAILLGLAATAMKSPP

>sp|Q6UWX4|HIPL2\_HUMAN HHIP-like protein 2 OS=Homo sapiens GN=HHIPL2 PE=1 SV=1

MLRTSTPNLCGGLHCRAPWLSSGILCLCLIFLLGQVGLLQGHPQCLDYGPPFPPLHLEF  
CSDYESFGCCDQHKDRRIAARYWDIMEYFDLKRHELCDYIKDILCQECSPYAAHLYDAE  
NTQTPLRNLPGLCDYCSAFHSNCHSAISLLTNDRLQESHGRDGTFRCHLLDLPKDYC  
FPNVLRLNDYLRHLGMVAQDPQGCLQLCLSEVANGLRNPVSMVHAGDGTHRFFVAEQGV  
VWVYLPDGSRLQPPFLDLKNIVLTPWIGDERGFLGLAFHPKFRHNRKFYIYYSCLDKKK  
VEKIRISEMKVSRADPNKADLKSERILEIEEPASNHNGGQLLFGLDGYMYIFTGDDGQA  
GDPFGLFGNAQNKSSLLGKVLRIDVNRAGSHGKRYRVPSDNPVSEPGAHPAIYAYGIRN  
MWRCVDRGDPITRQGRGRIFCGDVGNRFEEVDLILKGGNYGWRAKEGFACYDKKLCHN  
ASLDDVLPYIYAGHAVGKSVTGGYVYRGCEPNLGLYIFGDFMSGRLMALQEDRKNKKW  
KKQDLCLGSTTSCAFPLISTHSKFIIISFAEDEAGELYFLATSYPSAYAPRGSYKFVDP  
SRRAPPCKCKYKVPVVRTSKRIPFRPLAKTVLDLLKEQSEKAARKSSSATLASGPAQGL  
SEKGSKKLASPTSSKNTLRPGTGKTKKARVGPHVRQGKRRKSLKSHSGMRPSAEQKRAG  
RSLP

>sp|Q9BW71|HIRP3\_HUMAN HIRA-interacting protein 3 OS=Homo sapiens GN=HIRIP3 PE=1 SV=3

MAREKEMQEFTRSFRRPDLSTLTHSIVRRRYLAHSGRSHLEPEEKQALKRLVEEELLK  
MQVDEAASREDKLDLTKGKRPTPCSDPERKRRFRNSESESGSEASSPDYFGPPAKNGV  
AAEVSPAKEENPRRASKAVEESSDEERQRDLPARGEESSEEEKGYKGKTRKKPVVKKQ  
APGKASVSRKQAREESESEAEVPQRTAKKVEGNKGTKSLKESESESEEEILAQKKEQRE  
EEVEEEKEEDEEKGDWKPRTSRNGRRKSAREERSCKQKSQAKRLLGDSDEEEQKEAAS  
SGDDSGRDREPPVQRKSEDRTQLKGGKRLSGSSEDEEDSGKGEPTAKGSRKMARLGSTSG  
EESDLEREVDSEAGGPPQGERKNRSSKKSSRKGRTRSSSSSDGSPEAKGGKAGSGRRG  
EDHPAVMLRKRYIRACGAHRNYKLLGSCCSHKERLSILRAELEALGMKGTPSLGKCRAL  
KEQREEAAEVASLDVANIISGSGRPRRTAWNPLGEAAPPGELYRRTLDSDEERPRPAPP  
DWSHMRGISSDGEN

>sp|P15515|HIS1\_HUMAN Histatin-1 OS=Homo sapiens GN=HTN1 PE=1 SV=2

MKFFVFALVLALMISMISADSHEKRHHGYRRKFHEKHSHREFPFYGDYGSNYLYDN

>sp|P01893|HLAH\_HUMAN Putative HLA class I histocompatibility antigen, alpha chain H  
OS=Homo sapiens GN=HLA-H PE=5 SV=3

MVLMAPRTLALLLSGALALTQTWARSHSMRYFYTTMSRPGAGEPRFISVGYVDDTQFVRF  
DSDDASPREEPRAPWMEREGPKYWRNTQICKAQAQTERENLRALRYYNQSEGGSHMTQ  
VMYGCDVGPDPFLRGYEQHAYDGKDYLALNEDLRSWTAADMAAQITKRKWEARRAEQR  
RVYLEGEFVWELRRYLENGKETLQRADPPKTHMTHHPISDHEATLRCWALGFYPAEITLT  
WQRDGEDQTQDTELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLTLRWEP  
SSQPTVPIVGIVAGLVLLVAVVTGAVVAVMWRKKSSDRKGSYSQAASSNSAQGSVDVSL  
TA

>sp|Q96RW7|HMCN1\_HUMAN Hemicentin-1 OS=Homo sapiens GN=HMCN1 PE=1 SV=2

MISWEVVHTVFLFALLYSSLAQDASPQSEIRAEIPEGASTLAFVFDVTGSMYDDLQVVI  
EGASKILETSLKRPKRPLFNFALVPFHDPEIGPVTITTDPKKFQYELRELYVQGGGDCPE  
MSIGAIIKIALEISLPGSFIYVFTDARSKDYRLTHEVLQLIQKQSQVVFVLTGDCDDRTH

IGYKVYEEIASTSSGQVFHLDKKQVNEVLKWVEEAVQASKVHLLSTDHLEQAVNTWRIPF  
DPSLKEVTVSLSGSPMIEIRNPLGKL IKKGFGHELLNIHNSAKVVNVKEPEAGMWTVK  
TSSSGRHSVRITGLSTIDFRAGFSRKPTLDFKKTVSRPVQGIPTYVLLNTSGISTPARID  
LLELLSISGSSLKTI PVKYYPHRKPYGIWNISDFVPPNEAFFLKVTGYDKDDYLFQRVSS  
VSFSSIVPDAPKVTMPEKTPGYLQPGQIPCSVDSLLPFTLSFVRNGVTLGVDQYLKESA  
SVNLDAKVTLSDGEFYECIAVSSAGTGRAQTFFDVSEPPPIQVPNNVTVTPGERAVLT  
CLIIASVDYNLTWQRNDRDRLAEPARIRTLANLSLELKS VKFNDAGEYHCVMSSEGGSS  
AASVFLTVQEPPKVTMPKNQSF TGGSEVSIMCSATGYPKPIAWTVNDMFI VGS HRYRM  
TSDGTLFIKNAAPK DAGIYGCLASNSAGTDKQNSTLRYIEAPKLMVVQSELLVALGDITV  
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>sp|Q01581|HMCS1\_HUMAN Hydroxymethylglutaryl-CoA synthase, cytoplasmic OS=Homo sapiens  
GN=HMCS1 PE=1 SV=2

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>sp|P54868|HMCS2\_HUMAN Hydroxymethylglutaryl-CoA synthase, mitochondrial OS=Homo sapiens  
GN=HMCS2 PE=1 SV=1

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>sp|Q05925|HME1\_HUMAN Homeobox protein engrailed-1 OS=Homo sapiens GN=EN1 PE=3 SV=3

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>sp|Q15651|HMG3\_HUMAN High mobility group nucleosome-binding domain-containing protein  
3 OS=Homo sapiens GN=HMG3 PE=1 SV=2

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>sp|POCJ74|HMN7\_HUMAN Humanin-like 7 OS=Homo sapiens GN=MTRNR2L7 PE=2 SV=1  
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>sp|Q14541|HNF4G\_HUMAN Hepatocyte nuclear factor 4-gamma OS=Homo sapiens GN=HNF4G PE=1 SV=3

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SPGSSTDINVKKIASIGDVCESMKQQLLVLEWAKYIPAFCEPLDDQVALLRAHAGEHL  
LLGATKRSMYKDILLGNVYIHRNSCEVEISRVANRVLDELVRPFQEIQIDDNEYACL  
KAIVFFDPDAKGLSDPVKIKNMRQVQIGLEDYINDRQYDSRGRFGELLLLLPTLQSIW  
QMIEQIQFVKLFGMVKIDNLLQEMLLGGASNDGSHLHHPMHPHLSQDPLTGQTILLGPMS  
TLVHADQISTPETPLPSPPGSGQEYKIAANQASVISHQHLKQKQL

>sp|Q9UBC0|HNF6\_HUMAN Hepatocyte nuclear factor 6 OS=Homo sapiens GN=ONECUT1 PE=2 SV=1

MNAQLTMEATIGELHGVSHPEVPAPADLLGGSPHARSSVAHRGSHLPPAHPRSMGMASLLD  
GGSGGGDYHHHHRAPEHSLAGPLHPTMTMACETPPGMSMPTTYTTLTPLQPLPPISTVSD  
KFPHHHHHHHHHHHHHHQLAGNVSGSFTLMRDERGLASMNNLYTPYHKDVAGMGQSLS  
PLSSSGLGSIHNSQGLPHYAHPGAAMPTDKMLTPNGFEAHPAMLGRHGEQHLTPTSAG  
MVPINGLPHPHHAHLNAQGHGQLLGTAREPNPSVTGAQVSNGSNSGQMEEINTKEVAQR  
ITTELKRYSIQAIQFQVLCRSQGTLSDLLRNPKPWSKLKSGRETFRRMWKLQEPEFQ  
RMSALRLAACKRKEQEHGKDRGNTPKPRLVFTDVQRRTLHAIFKENKRPSKELQITISQ  
QLGLELSTVSNFFMNARRRSLDKWQDEGSSNSGNSSSSSSTCTKA

>sp|Q9BYM8|HOIL1\_HUMAN RanBP-type and C3HC4-type zinc finger-containing protein 1 OS=Homo sapiens GN=RBCK1 PE=1 SV=2

MDEKTKKAEEMALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVS  
VEDAQMHTVTIWLTVRPDMTVASLKDMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVR  
QNGDSAYLYLLSARNTSLNPQELQRERQLRMLLEDLGFKDLTLQPRGPLEPGPPKPGVPQE  
PGRGQPDVAPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEEERARL  
AGEEEALRQYQQRKQQQEGNYLQHVQLDQSRSLVLTNTEPAECPVCYSVLAPGEAVVLR  
LHTFCRECLQGTIRNSQEAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFLDLGISI  
AENRSAFSYHCKTPDCKGWCFEDDVNEFTCPVCFHVNCLCKAIEQMNCKEYQEDLAL  
RAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGCWIRCTVCHTEICWVTGKPR  
WGGPGPGDTSGGCRCRVNGIPCHPSCQNC

>sp|Q96ED9|HOOK2\_HUMAN Protein Hook homolog 2 OS=Homo sapiens GN=HOOK2 PE=1 SV=3

MSVDKAELCGSLLTWLQTFHVPSPCASPQDLSSGLAVAYVLNQIDPSWFNEAWLQGISD  
PGPNWKLKVSNLKMVLRSLVEYSQDVLHPVSEEHLPDVSLIGFSDPAELGKLLQLVLG  
CAISCEKKQDHIQIRIMTLEESVQHVVMEAIQELMTKDTPDLSPTYGNFDSQSRYYFL  
SEEAEEGDELQQRCLDLERQLMLLSEEKQSLAQENAGLRERMGRPEGEGTPGLTAKKLLL  
LQSQLEQLQEENFRLESGREDERLRCAELEREVAELQHRNQALTSLAQEAQALKDEMDEL  
RQSSERAGQLEATLTSCRRRLGELRELRRQVRQLEERNAGHAERTRQLEDELRRAGSLRA  
QLEAQRQVQELQGQRQEEAMKAKEKWLFECRNLEEKYESVTKEKERLLAERDSLREANEE  
LRCAQLQPRGLTQADPSLDPTSTPVDNLAAEILPAELRETLRLQLENKRLCRQEAADRE  
RQEELQRHLEDANRARHGLTQHRLNQQLSELRAQVEDLQKALQEQQGKTEDAISILLK  
RKLEEHLQKLHEADLELQRKREYIEELEPPTDSSTARRIEELQHNLQKKDADLRAMEERY  
RRYVDKARMVMQTMPEPKQRPAAAGAPPELHSLRTLRLRERDVRIRHLEMDFEKSRSQREQEE  
KLLISAWYNMGMALQQRAGEERAPAHQAQSLAQRLATNSRRGPLGRLASLNLRPDTKH

>sp|Q9NZL4|HBPB1\_HUMAN Hsp70-binding protein 1 OS=Homo sapiens GN=HSPBP1 PE=1 SV=1

MSDEGSRGSRLLPALPPASQGCSSGGGGGGGGSSAGSGNSRPPRNQGLLQMAITAGS  
EEDPPPEPMSEERRQWLQEAMSAAFRGQREEVEQMKSLRVLSQPMPTAGEAEQAADQ  
QEREGALELLADLCENMDNAADFCQLSGMHLLVGRYLEAGAAGLRWRAAQLIGTCSQNV  
AIQEQVLGLGALRKLRLDRDACDTRVKALFAISCLVREQEAGLLQFLRLDGFVLMR  
AMQQQVQKLKVSFAFLQNLVGHPEHKGTLCSMGVQQLVALVRTEHSPFHEHVLGALC  
SLVTDFPQGVRECREPELGLEELLRHRCQLLQHEEYQEELEFCEKLLQTCFSSPADDSM  
DR

>sp|A8MVJ9|HPF1L\_HUMAN Putative histone PARylation factor 1-like OS=Homo sapiens PE=5  
SV=1

MVGGGWKRRPGAGAGPQCEKTVDVKSKFCEADVSSDLRKEVENHYTSLSPEDFYHFWKF  
CEELDSEKPADPLSASLGLQLVDPYNILAGHKMKKKSTVPNPNLHWRFYDPPFQTII  
IRDKLSATWGISDRDSPDELVPYVGINEAKKNCIIVPNGDNVFAAVKLYLMKKLKEVTDK  
KKTNLKFNVDKLTETARELGYSLEQRTMKMKQRDKKVTKTFHGTGLVPPVDKNVGYR  
ELPETDADLKRICKTIVEAASDDERRKAFAPIQEMMTFVQFANDECYGMGLELGMDLFC  
YGSYFHKVAGQLPLAYNLLKRNLFAEIMKDHLANRRKENIDQFAA

>sp|Q6UXD1|HRCT1\_HUMAN Histidine-rich carboxyl terminus protein 1 OS=Homo sapiens  
GN=HRCT1 PE=4 SV=1

MLGLLGSTALVGWITGA AVAVLLLLLLLLLATCLFHGRQCDVERNRTAAGGNRVRAQPWP  
FRRRGHLGIFHHHRHPGHVSHVPNVGLHHHHHPRHTPHLLHHHHHPRHHPRHAR

>sp|Q9Y5R4|HEMK1\_HUMAN HemK methyltransferase family member 1 OS=Homo sapiens GN=HEMK1  
PE=1 SV=1

MELWGRMLWALLSGPGRRGSTRGWAFSSWQPQPPLAGLSSAIELVSHWTGVFEKRGIP  
RESSEYIVAHVLGAKTFQSLRPALWTQPLTSQQLQCIRELSSRRLQRMVPVQYILGEWDFQ  
GLSLRMVPPVFIIPRTEELVEWVLEEVAQRSHAVGSPGSPILILEVCGSGAISLSLLSQ  
LPQSRVIAVDKREAAISLTHENAQRLRLQDRIWIIHLDMTSERSWTHLPWGPMDLIVSNP  
PYVFHQDMEQLAPEIRSYEDPAALDGGEEMDIIITHILALAPRLKDSGSIFLEVDPRHP  
ELVSSWLQSRPDLNLVAVRRDFCGRPRFLHIRRSGP

>sp|Q14469|HES1\_HUMAN Transcription factor HES-1 OS=Homo sapiens GN=HES1 PE=1 SV=1

MPADIMEKNSSSPVAATPASVNTTPDKPKTASEHRKSSKPIMEKRRRARINESLSQLKTL  
ILDALKDSSRHSKLEKADILEMTVKHLRNLQRAQMTAALSTDPSVLGKYRAGFSECMNE  
VTRFLSTCEGVNTEVTRLLGHLANCMTQINAMTYPGQHPALQAPPPPPPGGGPQHAP

FAPPPPLVPIPGGAAPPPGGAPCKLSQAGEAAKVFGGFQVVPAPDGQFAFLIPNGAFAH  
SGPVIPVYTSNSGTSVGPNAVSPSSGPSLTADSMWRPWRN

>sp|P07686|HEXB\_HUMAN Beta-hexosaminidase subunit beta OS=Homo sapiens GN=HEXB PE=1 SV=3

MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALWPLP  
LSVKMTPNLLHLAPENFYISHSPNSTAGPSCTLLEAFRRYHGYIFGFYKWHHEPAEFQA  
KTQVQQLLVSITLQSECDAFPNISSDESYTLLVKEPVAVLKANRVWGALRGLETFSQLVY  
QDSYGTFTINESTIIDSPRFSHRGILIDTSRHYLPVKIILKTLDAFNFKNFVLHWHIVD  
DQSFYQSITFPELSNKGSYSLSHVYTPNDVRMVEYARLRGIRVLPEDTPGHTLSWGK  
GQKDLLTPCYSRQNKLSFGPINPTLNTTYSFLTTFKEISEVFPDQFIHLGGDEVEFKC  
WESNPKIQDFMRQKGFGTDFKKLESFYIQKVLDIATINKGSIVWQEVFDDKAKLAPGTI  
VEVWKDSAYPEELSRVTASGFPVILSAPWYLDLISYGQDWRKYKVEPLDFGGTQKQKQL  
FIGGEACLWGEYVDATNLTPRLWPRASAVGERLWSSKDVRDMDDAYDRLTRHRCRMVERG  
IAAQPLYAGYCNHENM

>sp|Q96MH2|HEXI2\_HUMAN Protein HEXIM2 OS=Homo sapiens GN=HEXIM2 PE=1 SV=1

MMATPNQTACNAESPVALEEAKTSGAPGSPQTPPERHDSGGSLPLTPRMESHSEDELAG  
AVGGLGWNSRSPRTQSPGGCSAEAVLARKKHRRRPSKRKRHWRPYLELSWAEKQQRDERQ  
SQRASRVREEMFAKGQPVAPYNTTQFLMNDRDPEEPNLDVPHGISHPGSSGESEAGDSGD  
RGRAHGEFQRKDFSETYERFHTESLQGRSKQELVRDYLELEKRLSQAEETRRLLQQLQAC  
TGQQSCRQVEELAAEVQRLRTENQRLRQENQMWNREGCRCDEEPT

>sp|Q9BTY7|HGH1\_HUMAN Protein HGH1 homolog OS=Homo sapiens GN=HGH1 PE=1 SV=1

MGEAGAGAGASGGPEASPEAEVVKLLPFLAPGARADLQAAVRHVLALTGCGPGRALLAG  
QAALLQALMELAPASAPARDAARALVNLAADPGLHETLLAADPGLPARLMGRALDPQWPW  
AEEAAAALANLSREPAPCAALMAALAAAEPADSGLERLVRLCTPGYNARAPLHYLAPLL  
SNLSQRPAARAFLDPDRCVVRLLPLTQYPDSSVRRGGVVGTLRNCCFEHRHHEWLLGP  
EVDILPFLLLPLAGPEDFSEEMERLPVDLQYLPPDKQREPDADIRKMLVEAIMLLTATA  
PGRQQVRDQGAYLILRELHSWEPEPDVRTACEKLIQVLIGDEPERGMENLLEVQVPEDVE  
QQLQQLDCREQEQLERELAPEPWVERATPT

>sp|Q9Y241|HIG1A\_HUMAN HIG1 domain family member 1A, mitochondrial OS=Homo sapiens  
GN=HIGD1A PE=1 SV=1

MSTDGTGVSLSYEEDQGSKLIRKAKEAPFVPVGIAGFAAIVAYGLYKLSRGNTKMSIHL  
IHRVAAQGFVVGAMTVGMGYSMYREFWAKPKP

>sp|P30511|HLAF\_HUMAN HLA class I histocompatibility antigen, alpha chain F OS=Homo  
sapiens GN=HLA-F PE=2 SV=3

MAPRSLLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFDS  
AAIPRMEPREPWVEQEGPQYWWTGYAKANAQTDRVALRNLLRRYNQSEAGSHTLQGMN  
GCDMGPDRLLRGYHQHAYDGKDYISLNEDLRSWTAADTVAQITQRFYEAEEYAEFRTY  
LEGECELLRRYLENGKETLQRADPPKAHVAAHPISDHEATLRCWALGFYPAEITLTWQR  
DGEEQTQDTELVETRPAGDGTQKWAAVVVPPEEQRYTCHVQHEGLPQPLILRWEQSPQ  
PTIPIVGIVAGLVVLGAVVTGAVVAAMWRKKSSDRNRGSYSQAAV

>sp|PODMR1|HNRC4\_HUMAN Heterogeneous nuclear ribonucleoprotein C-like 4 OS=Homo sapiens  
GN=HNRC4 PE=3 SV=1

MASVNTNKMDPHSMNSRVFIGNLNLVVKSDVEAIFSKYKGIAGCSVHKGFVQYDKE  
KNARAAGEDGRMIASQVVDINLAAEPKVNRRNAGVKRSAAEMYGSSFDLDYNLQRDYY  
GGMYSFPARVPPPPPIALAVVPSKRQRISGNTSRRGKSGFNSKSGKRGSSKSGKLGDDL

QAIKQELTQIKQKVDLSLENLEKIEKEHCKQGVEVKNAKSEEEQTSSSSSKDKTHVKMES  
EGGADDSVEEGDLLCDDDNEDQGDNLQLELIKDEKGAEEGEDDRDRANGQDDS

>sp|Q1KMD3|HNRL2\_HUMAN Heterogeneous nuclear ribonucleoprotein U-like protein 2 OS=Homo sapiens GN=HNRNPUL2 PE=1 SV=1

MEVKRLKVTELRSSELQRRGLDSRGLKVDLAQRLQEALDAEMLEDEAGGGGAGPGGACKAE  
PRPVAASGGGPGGDEEEDEEEDEEALLEDEDEEPPPAQALGQAAQPPPEPPEAAAME  
AAAEPDASEKPAEATAGSGGVNGGEEQGLGKREDEPEERSGDETPGSEVPGDKAAEEQG  
DDQDSEKSKPAGSDGERRGVKRQRDEKDEHGRAYYEFREEAYHSRSKSLPPEEEAKDEE  
EDQTLVNLDTYTSDLHFQVSKDRYGGQPLFSEKFPTLWSGARSTYGVTKGKVCFEAKVTQ  
NLPMEKGCETEVSLLRVGWSVDFSRPQLGEDEFSGYFDGRGLKAENGQFEFGQTFGENDV  
IGCFANFETEEVELSFSKNGEDLGVAFWISKDSLADRALLPHVLCNKCVELNFGQKEEP  
FFPPPEEFVFIHAVPVEERVRTAVPPKTIEECEVILMVGLPGSGKTQWALKYAKENPEKR  
YNVLGAETVLNQMRMGLEPEMDPKSRDLLVQQASQCLSKLVQIASRTKRNFILDQCNV  
YNSGQRRKLLLFKTFSRKVVVVVPNEEDWKKRELRKEVEGDDVPESIMLEMKANFSLPE  
KCDYMEDEVTYGELEKEEAQPIVTKYKEEARKLLPPSEKRTNRRNNRNKRNRQNRSGQGY  
VGGQRRGYDNRAYGQYWGQPGNRGGYRNFDYRGRDYDRFYGRDYEYNRYRDYRQYNR  
DWQSYYYHHPQDRDRYRNYYGYQGYR

>sp|Q9BPY8|HOP\_HUMAN Homeodomain-only protein OS=Homo sapiens GN=HOPX PE=1 SV=1

MSAETASGPTEDQVEILEYNFNKVDKHPDSTTLCLIAEAGLSEEETQKWFKQRLAKWRR  
SEGLPSECRSVTD

>sp|Q8N7B1|HORM2\_HUMAN HORMA domain-containing protein 2 OS=Homo sapiens GN=HORMAD2 PE=1 SV=2

MATAQLSHCITIHKASKETVFPSQITNEHESLMVKKLFATSISCITYLRGLFPESYGE  
RHLDDLCLKILREDKKCPGSLHIIRWIQGCDALEKRYLRMAVLTLYTDPMGSEKVTEMY  
QFKFKYTKEGATMDFDSSHSSSTSFESGTNNEIDKASVLLIRKLYILMQDLEPLPNNVVL  
TMKLHYNAVTPHDYQPLGFKGVNSHFLLFDKEPINVQVGFVSTGFHSMKVVMTEATK  
VIDLENNLFRENSTTEIAHQGLDCDEEEECNDHIQRMNFVCSQSSSECSRKRRKVSEPVK  
VFIPNRK

>sp|A8MV81|HIG1C\_HUMAN HIG1 domain family member 1C OS=Homo sapiens GN=HIGD1C PE=3 SV=2

MSSDNQWSADEDEGQLSRLIRKSRDSPFVPIGIAGFVTVVSCGLYKLKYRRDQKMSIHLI  
HMRVAAQGFVVGAVTLGVLYSMYKDYIRPRFFSESKK

>sp|Q8NE63|HIPK4\_HUMAN Homeodomain-interacting protein kinase 4 OS=Homo sapiens GN=HIPK4 PE=1 SV=1

MSTIQSETDCYDIEVLGKGTGFEVAKGWRRSTGEMVAIKILKNDAYRNRIIKNELKLLH  
CMRGLDPEEAHVIRFLEFFHDALKFYLVFELLEQNLFEFQKENNFAPLPAHIRTVTQV  
LTALARLKELAIIHADLKPENIMLVDQTRCPFRVKVIDFGSASIFSEVRYVKEPYIQSRF  
YRAPEILLGLPFCEKVDVWSLGCVMAELHLGWPLYPGNNEYDQVRYICETQGLPKPHLLH  
AACKAHHFFKRNPHPDAAANPWQLKSSADYLAETKVRPLERRKYMLKSLDQIETVNGGSVA  
SRLTFPDREALAEHADLKSMVELIKRMLTWESHERISPSAALRHPFVSMQQLRSAHETTH  
YYQLSLRSYRLSLQVEGKPPTPVVAAEDGTPYYCLAEKEAAGMGSVAGSSPFFREEKAP  
GMQRAIDQLDDLQEQEAGHGLWGETCTNAVSDMMVPLKAAITGHHVPDSGPEPILAFYSS  
RLAGRHKARKPPAGSKSDSNFNLIRLSQVSPEDDRPCRGSSWEEGEHLGASAEPLAILQ  
RDEGPNIDNMTMEAPERPDPELFDPPSSCPGEWLSEPDCTLESVRGPRAQGLPPRRSHQH  
PPRGATSFLQHVTGHH

>sp|Q8NCD3|HJURP\_HUMAN Holliday junction recognition protein OS=Homo sapiens GN=HJURP  
PE=1 SV=2

MLGTLRAMEGEDVEDDQLLQKLASRRRFQRRMQRLIEKYNQPFEDTPVVQMATLTYETP  
QGLRIWGGRLIKERNEGEIQDSSMKPADRTDGSVQAAAWGPELPSHRTVLGADSKSGEVD  
ATSDQEEVAVWALAPAVPQSPLKNELRRKYLTQVDILLQGAIEFECAGNRAGRDVVRTPL  
PSLASPAVPAPGYCSRISRKSPGDPKAPASSPREWDPLHPSSTDMLVPRNDSLQETS  
SSSFLSSQPFEDDDICNVTISDLYAGMLHMSRLLSTKPSSIISTKTFIMQNWNSRRRHR  
YKSRMNKTYCKGARRSQRSSKENFIPCSEPVKGTGALRDCKNVLDVSCRKTGLKLEKAFL  
EVNRPQIHKLDPSWKERKVTPSKYSSLIYFDSSATYNLDEENRFRTLKWLISPVKIVSRP  
TIRQGHGENRQREIEIRFDQLHREYCLSPRNQPRRMCLPDSWAMNMYRGGPASPGGLQGL  
ETRRLSLPSSKAKAKSLSEAFENLGKRSLEAGRCLPKSDSSSSLPKTNPTHSATRPQQTS  
DLHVQGNSSGIFRKSVPSPKTLSPDPKEVPGHGRNRYDEIKEEFDKLHQKYCLKSPGQMT  
VPLCIGVSTDKASMEVRYQTEGFLGKLNPDHPHFQGFQKLPSSPLGCRKSLLGSTAIEAPS  
STCVARAITRDGTRDHQFPAKRPRLSEPQGSGRQGNSLGASDGDVNTVRPGDQGSSSQPN  
SEERGENTSRYMEEKSDFMLEKLETKSV

>sp|P17693|HLA\_G\_HUMAN HLA class I histocompatibility antigen, alpha chain G OS=Homo  
sapiens GN=HLA-G PE=1 SV=1

MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPGRGEPFIAMGYVDDTQFVRF  
DSDSACPRMEPRAPWVEQEGPEYWEETRNTKAHAQTDRMNLQTLRGYYNQSEASSHTLQ  
WMIGCDLGSDGRLLRGYEQYAYDGKDYALNEDLRSWTAADTAAQISKRKCEAANVAEQR  
RAYLEGTCEVWLHRYLENGKEMLQRADPPKTHVTHHPVFDYEATLRCWALGFYPAEII LT  
WQRDGEDQTQDVELVETRPAGDGTQKWAADVVPSPGEEQRYTCHVQHEGLPEPLMLRWKQ  
SSLPTIPIMGIVAGLVVLAAVVTGAAVA AVLWRKKSSD

>sp|Q96FZ2|HMCES\_HUMAN Embryonic stem cell-specific 5-hydroxymethylcytosine-binding  
protein OS=Homo sapiens GN=HMCES PE=1 SV=1

MCGRTSCHLPRDVLTRACAYQDRRGQQLPEWRDPDKYCPSYNKSPQSNPVLRLHFE  
KDADSSERIIAPMRWGLVPSWFKESDPSKLQFNTTNCRSDTVMEKRSFKVPLGKGRRCVV  
LADGFYEWQRCQGTNRQPYFIYFPQIKTEKSGSIGAADSPENWEKVWDNRLLTMAGIF  
DCWEPPEGGDVLYSYTIIITVDSCKGLSDIHHRMPAILDGEEAVSKWLDGFEVSTQEALKL  
IHPTENITFHAVSSVVNNSRNTPECLAPVDLVVKELRASGSSQRMLQWLATKSPKKED  
SKTPQKEESDVPQWSSQFLQKSPKPTKRGTAGLLEQWLKREKEEEPVAKRYSQ

>sp|P04035|HMDH\_HUMAN 3-hydroxy-3-methylglutaryl-coenzyme A reductase OS=Homo sapiens  
GN=HMGCR PE=1 SV=1

MLSRLFRMHGLFVASHPWEVIVGTVTLTICMMSNMFTGNNKICGWNIECPKFEEVLSS  
DIIILITIRCIAILYIFQFQNLRLGSKYILGIAGLFTIFSSFVFSTVVIHFLDKELTG  
LNEALPFFLLLIDLSRASTLAKFALSSNSQDEVRENIARGMAILGPTFTLDALVECLVIG  
VGTMSGVRQLEIMCCFCGMSVLANYFVFMFTFFPACVSLVLELSRESREGRPIWQLSHFAR  
VLEEEENKPNPVTQVRKMIMSLGLVLVHAHSRWIADPSPQNSTADTSKVSGLDENVSKR  
IEPSVSLWQFYLSKMISMDIEQVITLSLALLAVKYIFFEQTTETESTLSLKNPITSPVVT  
QKKVPDNCRRPEMLVRNNQKCDSEETGINRERKVEVIKPLVAETDTPNRATFVVGNS  
SLDTSVSLVTQEPEIELPREPRNNEELQILGNAEKGAKFLSDAEIIQLVNAKHIPAYK  
LETLMETHERGVSIIRQLLSKKLSEPSLQYLPYRDYNYSVMGACCENVIGYMPIPVGV  
AGPLCLDEKEFQVPMATTEGCLVASTNRGCRAIGLGGGASSRVLADGMTRGPVVRPRAC  
DSAEVKALETSEGFAVIEAFDSTSRFARLQKLHTSIAGRNLIRFQSRSGDAMGMNMI

SKGTEKALSKLHEYFPEMQILAVSGNYCTDKKPAAINWIEGRGKSVCEAVIPAKVVREV  
LKTTEAMIEVNINKNLVGSAMAGSIGGYNAHAANIVTAIYIACGQDAAQNVGSSNCITL  
MEASGPTNEDLYISCTMPSEIEIGTVGGGTNLLPQQACLQMLGVQGACKDNPGENARQLAR  
IVCGTVMAGELSLMAALAAGHLVKSHMIHNRSKINLQDLQGACTKKTA

>sp|P09429|HMGB1\_HUMAN High mobility group protein B1 OS=Homo sapiens GN=HMGB1 PE=1 SV=3  
MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKF  
EDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLCSEYRPKIKGEHPGL  
SIGDVAKKLGEMWNNTAADDKQPYEKKAALKKEYEKDIAAYRAKGKPDAAKKGVVKA EK  
SKKKKEEEEEDEEDEDEEEEEDEEDEDEDEEDDDDE

>sp|P05114|HMG1\_HUMAN Non-histone chromosomal protein HMG-14 OS=Homo sapiens GN=HMG1  
PE=1 SV=3  
MPKRKVSSAEGAKEEPKRRSARLSAKPPAKVEAKPKKAAAKDKSSDKKVQTKGRGAKG  
KQAEVANQETKEDLPAENGETKTEESPASDEAGEKEAKSD

>sp|POCJ77|HMN10\_HUMAN Humanin-like 10 OS=Homo sapiens GN=MTRNR2L10 PE=2 SV=1  
MTTRGFSCLLLLIREIDLSAKRRI

>sp|POCJ69|HMN2\_HUMAN Humanin-like 2 OS=Homo sapiens GN=MTRNR2L2 PE=2 SV=1  
MAPRGFSCLLSTSEIDLVPKRLSSVF

>sp|POCJ71|HMN4\_HUMAN Humanin-like 4 OS=Homo sapiens GN=MTRNR2L4 PE=2 SV=1  
MATQGFSCLLSVSEIDL SMK RQYKQIR

>sp|POCJ75|HMN8\_HUMAN Humanin-like 8 OS=Homo sapiens GN=MTRNR2L8 PE=2 SV=1  
MAPRGFSCLLSTSEIDLVPKRRA

>sp|POC7T4|HMSDV\_HUMAN Minor histocompatibility protein HMSD variant form OS=Homo sapiens  
GN=HMSD PE=1 SV=1  
MEIFIEVFSHFLLQLTELTLNMCLELPTGSLEKSLMISSQVLQIPVANSTKQR

>sp|Q9H910|HN1L\_HUMAN Hematological and neurological expressed 1-like protein OS=Homo  
sapiens GN=HN1L PE=1 SV=1  
MFQVPDSEGGGRAGSRAMKPPGGESSNLFGSPEEATPSSRPNRMASNIFGPTTEEPQNI PKR  
TNPPGGKGS G IFDESTPVQTRQHLNPPGGKTS D IFGSPVTATSRLAHPNPKD H VFLCEG  
EEP KSDLKAARSIPAGAEPGEKGSARKAGPAKEQEPMPTVDSHEPRLGPRPRSHNKVLNP  
PGGKSSISFY

>sp|Q9UK76|HN1\_HUMAN Hematological and neurological expressed 1 protein OS=Homo sapiens  
GN=HN1 PE=1 SV=3  
MTTTTTFKGVDPNSRNSRVLRPPGGGSNFSLGFDPETEQPV RKNKMASNIFGTPEENQA  
SWAKSAGAKSSGGREDLESSGLQRRNSSEASSGDFDLKGEGDIHENVDTDLPGSLGQSE  
EKPVPAAPVPSPVAPAPVPSRRNPPGGKSSLVLG

>sp|P20823|HNF1A\_HUMAN Hepatocyte nuclear factor 1-alpha OS=Homo sapiens GN=HNF1A PE=1  
SV=2  
MVSKLSQLQTELLAALLESGLSKEALIQALGEPGPYLLAGEGLDKGESCGGGRGELAE L  
PNLGETRGEDETDGDEFTPPILKELENLSPEEAAHQKAVVETLLQEDPWRVAKMVK  
SYLQQHNIPQREVDDTGLNQSHLSQHLNKGTPMKTQKRAALYTWYVRKQREVAQQFTHA  
GQGG LIEPTGDELPTKKGRRNRFKWGPASQQILFQAYERQKNPSKEERETLVEECNRAE  
CIQRGVSPSQAQGLGSNLVTEVRVYNWFANRRKEEAFRHKLAMDTYSGPPPGPGPALP  
AHSSPGLPPPALSPSKVHVGRYGPATSETAEVPSSSGGPLVTVSTPLHQVSPTGLEPSH  
SLLSTEAKLVSAAGGPLPPVSTLTALHSLEQTSPGLNQPPQNLIMASLPGVMTIGPG EPA

SLGPTFTNTGASTLVIGLASTQAQSVPVINSMGSSLTTLQPVQFSQPLHPSYQQPLMPPV  
QSHVTQSPFMATMAQLQSPHALYSHKPEVAQYTHTGLLPQTMLITDITNLSALASLTPTK  
QVFTSDTEASSESGLHTPASQATTLHVPSQDPAGIQHLQPAHRLSASPTVSSSSLVLYQS  
SDSSNGQSHLLPSNHSVIETFISTQMASSSQ

>sp|Q86XE5|HOGA1\_HUMAN 4-hydroxy-2-oxoglutarate aldolase, mitochondrial OS=Homo sapiens  
GN=HOGA1 PE=1 SV=1

MLGPQVWSSVRQGLSRSLSRNVGVWASGEGKKVDIAGIYPPVTPFTATAEVDYGKLEEN  
LHKLGTFFPRGFVVQGSNGEFPLTSSERLEVSVRVRQAMPKNRLLLAGSGCESTQATVE  
MTVSMAQVGADAAMVTPCYRGRMSSAALIHHTYTKVADLSPIPVVLYSVPANTGLDLPV  
DAVVTLSQHPNIVGMKDSGGDVTRIGLIVHKTRKQDFQVLASAGFLMASYALGAVGGVC  
ALANVLGAQVCQLERLCCTGQWEDAQKLQHRLIEPNAAVTRRFGIPGLKKIMDWFGYYGG  
PCRAPLQELSPAEEEEALRMDFTSNGWL

>sp|Q86X24|HORM1\_HUMAN HORMA domain-containing protein 1 OS=Homo sapiens GN=HORMAD1 PE=2  
SV=1

MATAQLQRTPMASLVFPNKISTEHQSLVLVKRL LAVSVSCITYLRGIFPECAYGTRYLDD  
LCVKILREDKNCPGSTQLVKWMLGCYDALQKKYLRMVVLAVYTNPEDPQTISECYQFKFK  
YTNGPLMDFISKQNSNESSMLSTDTKKASILLIRKIYILMQNLGPLPNDVCLTMKLFYY  
DEVTPPDYQPPGFKDGDCEGVIFEGEPMYLNVEVSTPFHIFKVKTTERERMENIDSTI  
LSPKQIKTPFKILRDKDVEDEQEHYTSDDLDIETKMEEQEKNPASSELEEPSLVCEEDE  
IMRSKESPDLSISHSQVEQLVNKTSELDMSKTRSGKVFQNMANGNQPVKSSKENRKR  
SQHESGRIVLHHFDSSSQESVPKRRKFSEPKCHI

>sp|Q8WWQ2|HPSE2\_HUMAN Inactive heparanase-2 OS=Homo sapiens GN=HPSE2 PE=1 SV=3

MRVLCAPFEAMPSSNSRPPACLAPGALYLALLHLSSLSSQAGDRRPLVDRAAGLKEKTL  
ILLDVSTKNPVRTVNENFLSLQLDPSIIHDGWLDFLSSKRLVTLARGLSPAFLRFGGKRT  
DFLQFQNLNPAKSRGGPGPDYILKNYEDDIVRSDVALDKQKQCKIAQHPDVMLELQREK  
AAQMHLVLLKEQFSNTYSNLILTARSLDKLYNFADCSGLHLIFALNALRRNPNNSWNSSS  
ALSLLKYSASKKYNISWELGNEPNNYRTMHGRAVNGSQLGKDYIQLKSLLPQIRIYSRAS  
LYGPNIGRPRKNVIALLDGFMKVAGSTVDAVTWQHCYIDGRVVKVMDFLKTRLLDTLSDQ  
IRKIQKVNTYTPGKKIWLEGVVTSAGGTNNLSDSYAAGFLWLNTLGMLANQGIDVVIR  
HSFFDHGYNHLVDQNFNPLPDYWLSLLYKRLIGPKVLAVHVAGLQRKPRPGRVIRDKLRI  
YAHCTNHHNHNYVRGSITLFIINLHRSRKKIKLAGTLRDKLVHQYLLQPYGQEGLSKSV  
QLNGQPLVMVDDGTLPKPRPLRAGRTLVI PPVTMGFYVVKVNNALACRYR

>sp|Q9Y251|HPSE\_HUMAN Heparanase OS=Homo sapiens GN=HPSE PE=1 SV=2

MLLRSPALPPPLMLLLGPLGPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVT  
IDANLATDPRFLILLGSPKRLTLARGLSPAYLRFGGTKTDFLIFDPKKESTFEERSYWQS  
QVNQDICKYGSIPPDVEEKLRLWPYQEQLLREHYQKKFKNSTYSRSSVDVLYTFANCS  
GLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNEPNSFLKKADIFINGS  
QLGEDFIQLHKLRLKSTFKNAKLYGPDVGQPRRKTAKMLKSFLKAGGEVIDSVTWHHYL  
NGRTATKEDFLNPVDLDFISSVQKVFQVVESTRPGKKVWLGETSSAYGGGAPLLSDTFA  
AGFMWLDKLGLSARMGIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTKVLM  
ASVQGSKRRLRVYLHCTNTDNPRYKEGDLTYAINLHNVTKYLRLPYPFSNKQVDKYLL  
RPLGPHGLLSKSVQLNGLTLKMVDDQTLPLMEKPLRPGSSGLPAFSYSFFVIRNAKVA  
ACI

>sp|Q00613|HSF1\_HUMAN Heat shock factor protein 1 OS=Homo sapiens GN=HSF1 PE=1 SV=1



MDLPVGPGAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGGFAKEVLPKY  
FKHNNMASFVRQLNMYGFRKVHIEQGGLVKPERDDTEFQHCFLRGQEQLLENIKRKVT  
SVSTLKSEDIKIRQDSVTKLLTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHA  
QQQKVVNKLIQFLISLVQSNRILGVKRKIPLMLNDSGSAHSPKYSRQFSLEHVHSGSPY  
SAPSPAYSSSSLYAPDAVASSGPIISDITELAPASPMASPGGSIDERPLSSSPLVRVKEE  
PPSPPPQSPRVEEASGRPSSVDTLTSPTALIDSILRESEAPASVTALTDARGHTDTEGR  
PPSPPTSTPEKCLSVACLDKNELSDHLDAMDSNLDNLQTMLSSHGFSVDTSALLDLFSP  
SVTVPDMSLPDLSSLASIQELLSPEPPRPPEAENSSPD SGKQLVHYTAQPLFLDPGS  
VDTGSNDLPVLFELGEGSYFSEGDFGAEDPTISLLTGSEPPKAKDPTVS

>sp|Q96JZ2|HSH2D\_HUMAN Hematopoietic SH2 domain-containing protein OS=Homo sapiens  
GN=HSH2D PE=1 SV=1

MTEAGKLPLPLPRLDWFVHTQMGQLAQDGVPEWFHGAISREDAENLLESQPLGSFLIRV  
SHSHVGYTLSYKAQSSCCHFMVKLLDDGTFMIPGEKVAHTSLDALVTFHQKPIEPRREL  
LTQPCRQKDPANVDYEDLFLYNAVAEEAACPVSAPEEASPKVLCHQSKERKPSAEMNR  
ITTKEATSSCPPKSPLGETRQKLWRSKMLPERGQVRVQQLKSHLATVNLSSLLDVRRST  
VISGPGTGKGSQDHSGDPTSGDRGYTDCVATSLKSPSQPQAPKDRKVPTRKAERSVSCI  
EVTGDRSWHQMVVRALSSQESKEPHQGLAEPENDQLPEEYQQPPPFAPGYC

>sp|P04792|HSPB1\_HUMAN Heat shock protein beta-1 OS=Homo sapiens GN=HSPB1 PE=1 SV=2

MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPP  
AAIESPAVAAPAYSRALSRQLSSGVSEIRHTADRWRVSLDVNHFAPELTVKTKDGVVEI  
TGKHEERQDEHGYSISRCFTRKYTLPPGVDPTQVSSSLSPEGLTVEAPMPKLATQSNEIT  
IPVTFESRAQLGGPEAAKSDETAAK

>sp|Q9BUP3|HTAI2\_HUMAN Oxidoreductase HTATIP2 OS=Homo sapiens GN=HTATIP2 PE=1 SV=2

MAETEALSKLREDFRMQNKS VFILGASGETGRVLLKEILEQGLFSKVTLIGRRKLTfDEE  
AYKNVNQEVVDfEKLDDYASAFQGHdVGFCClGTTRGKAGAEgFVRVDRDYVLKSAELAK  
AGGCKHFNLSSKGADKSSNfLYLQVKGEVEAKVEELKFDRYSVFRPGVLLCDRQESRPG  
EWLVrkFFGSLPDSWASGHsVPVTVVRAMLNNVVRPRDKQMEllENKAIHDLGKAHGSL  
KP

>sp|Q53FT3|HIKES\_HUMAN Protein Hikeshi OS=Homo sapiens GN=HIKESHI PE=1 SV=2

MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYESINHVVVfMLGTIPfPEGMGGSVYfSYPD  
SNGMPVWQLLGFVTNGKPSAIFKISGLKSGEGSQHPfGAMNIVRTPSVAQIGISVELLDS  
MAQQTPVGNAAVSSVDSFTQfTQKMLDNfYNfASSFAVSQAQMTfPSPSEMfIPANVVLKW  
YENfQRRLAQNPLFWKT

>sp|P60008|HILS1\_HUMAN Spermatid-specific linker histone H1-like protein OS=Homo sapiens  
GN=HILS1 PE=1 SV=1

MLHASTIWHLRSTPPRRKQWGHCDPHRILVASEVTTEITSPTPAPRAQVCGGQPWTVLD  
PLSGHTGREAERHFATVSI SAvELKYCHGWRPAGQRVPSKTATGQRTCAKPCQKPSTSKV  
ILRAVADKGTCKYVSLATLKKAVSTTGyDMARNAYHfKRVLKGVLdKGSAGSfTLGKKQA  
SKSKLKVKRQRQQWRSGRPFgQHRSLLGSKQGHKRLIKGVRRVAKCHCN

>sp|Q9H2X6|HIPK2\_HUMAN Homeodomain-interacting protein kinase 2 OS=Homo sapiens GN=HIPK2  
PE=1 SV=2

MAPVYEGMASHVQVfSPHTLQSSAFCSVKKLKIEPSSNWDMTGYGSHSKVYSQSKNIPLS  
QPATTTVSTSLPVPNPfSLPYEQTIVfPGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTV  
SLLDTYQKCGLKRKSEEIENTSSVQIIEEHPPMIQNNASGATVATATTSTATSKNSGSNS

EGDYQLVQHEVLCSMTNTYEVLEFLGRGTFGQVVKCWKRGKTNEIVAIAIKILKNHPSYARQG  
QIEVSILARLSTESADDYNFVRAYECFQHKNHNTCLVFEMLEQNLYDFLKQNKFSPLPLKY  
IRPVLQQVATALMKLKSGLIHADLKPENIMLVDPSPRQPYRVKVIDFGSASHVSKAVCST  
YLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLP  
AEYLLSAGTKTTRFFNRDTSPLYPLWRLKTPDDHEAETGIKSKEARKYIFNCLDDMAQVN  
MTTDLEGSMDLVEKADRREFIDLLKKMLTIDADKRITPIETLNHPFVTMTHLLDFPHSTH  
VKSCFQNMICKRRVNMVDTVNQSKTPFITHVAPSTSTNLMTFNNQLTTVHNQAPSSTS  
ATISLANPEVSILNYPSTLYQPSAASMAAVAQRSMPLQTGTATCARPDPFQQALIVCPP  
GFQGLQASPSKHAGYSVRMENAVPIVTQAPGAQPLQIQPGLLAQQAWPSGTQQILLPPAW  
QQLTG VATHTSVQHATVIPETMAGTQQLADWRNTHAHGSHYNPIMQQPALLTGHVTLPA  
QPLNVGVAHVMRQPTSTTSSRKSKQHQS SVRNVTCEVSSSQAISSPQRSKRVKENTPP  
RCAMVHSSPACSTSVTCGWGDVASSTTRERQRQTIVIPDTPSPTVSVITISSDTDEEEEQ  
KHAPTSTVSKQRKNVISCVTVHDSPYSDSSSNTSPYSVQQRAGHNNANAFDTKGSLENHC  
TGNPRTIIVPPLKTQASEVLVECDSLVPVNTSHHSSSYKSKSSSNVTSTSGHSSGSSSGA  
ITYRQQRPGPHFQQQQLNLSQAQQHITTDRTGSHRRQAYITPTMAQAPYSFPHNSPSH  
GTVHPHLAAAAAAHLPTQPHLYTYTAPAALGSTGTVAHLVASQGSARHTVQHTAYPASI  
VHQVPVSMGPRVLPSTIHPQYPAQFAHQTYISASPASTVYTGYPVLSAKVNQYPYI

>sp|Q2TB90|HKDC1\_HUMAN Putative hexokinase HKDC1 OS=Homo sapiens GN=HKDC1 PE=1 SV=3

MFAVHLMFYFSKLKEDQIKKVDRLFYHMRLSDDTLDDIMRRFRAEMEKGLAKDTNPTAA  
VKMLPTFVRAIPDGSENGEFLSLDLGGSKFRVLKVQVAEEGKRHVQMESQFYPTPNEIIR  
GNGTELFYVADCLADFMKTKDLKHKKLPLGLTFSFPCRQTKLEEGVLLSWTKKFKARGV  
QD TDVVSRLTKAMRRHKMDVDILALVNDTVGTMTCAYDDPYCEVGVIIGTGTNACYME  
DMSNIDLVEGDEGRMCINTEWGAFGDDGALEDIRTEFDRELDLGS LNPGKQLFEKMISGL  
YLGELVRLILLKMAKAGLLFGGEKSSALHTKGKIETRHVAAMEKYKEGLANTREILVDLG  
LEPSEADCI AVQHVTIVSFRSANLCAAALAILTRLRENKKVERLRTTVGMDGTLYKIH  
PQYPKRLHKVVRKLVPSCDVRFLLESGSTKGAAMVTAVASRVQAQRKQIDRVLALFQLT  
REQLVDVQAKMRAELEYGLKKKSHGLATVRMLPTYVCGLPDGTEKGKFLALDLGGTNFRV  
LLVKIRSGRRSVRMYNKIFAIPLEIMQGTGEELFDHIVQCIADFLDYMGLKGASLPLGFT  
FSFPCRQMSIDKGTGLIGWTKGFKATDCEGEDVVDMLREAIKRRNEFDLDIVAVVNDTVGT  
MMTCGYEDPNCEIGLIAGTGSNMCYMEDMRNIEMVEGGEKMCINTEWGGFGDNGCIDD  
WTRYDTEVDEGSLNPGKQRYEKM TSGMYLGEIVRQILIDLTKQGLLFRGQISERLRTRGI  
FETKFLSQIESDRLALLQVRRILQQLGLDSTCEDSI VVKEVCGAVSRRAAQLCGAGLAAI  
VEKRREDQGLEHLRITVGVDTLYKLHPHFSRILQETVKELAPRCDVTFMLSEDGSGKGA  
ALITAVAKRLQQAQKEN

>sp|P52926|HMG2\_HUMAN High mobility group protein HMGI-C OS=Homo sapiens GN=HMG2 PE=1 SV=1

MSARGEAGQPSTSAQGQPAAPAPQKRGRGRPRKQQQEPTGEPSPKRPRGRPKGSKNKSP  
SKAAQKKAATGEKRPRGRPRKWPQQVQKKPAQEETEETSSQESA EED

>sp|Q8WW32|HMGB4\_HUMAN High mobility group protein B4 OS=Homo sapiens GN=HMGB4 PE=1 SV=2

MGKEIQLKPKANVSSYVHFLNLRNKFKEQQPNTYVGFEFSRKCEKWSISKHEKAKY  
EALAKLDKARYQEEMMYVGRKKRRKRDPQEP RPPSSFLFCQDHYAQLKRENPNWSV  
VQVAKATGKMWSTATDLEKHPYEQRVALLRAKYFEELELYRKQC NARKKYRMSARNRCRG  
KRV RQS

>sp|P05204|HMG2\_HUMAN Non-histone chromosomal protein HMG-17 OS=Homo sapiens GN=HMG2  
PE=1 SV=3

MPKRKAEGDAKGDKAVKDEPQRRSARLSAKPAPPKPEPKPKAPAKKGKVKPGKKGKA  
DAGKEGNNPAENGDAKTDQAQKAEGAGDAK

>sp|P82970|HMG5\_HUMAN High mobility group nucleosome-binding domain-containing protein  
5 OS=Homo sapiens GN=HMG5 PE=1 SV=1

MPKRKAAGQGDMRQEPKRRSARLSAMLVPVTPEVKPKRTSSSRKMKTKSDMMEENIDTSA  
QAVAETKQEA VVEEDYNENAKNGEAKITEAPASEKEIVEVKEENIEDATEKGGEKKEAVA  
AEVKNEEEDQKEDEEDQNEEKGEAGKEDKDEKGEEDGKEDKNGNEKGEDAKEKEDGKKGE  
DGKNGEDGKEKGEDEKEEEDRKETGDGKENEDGKEKGDKKEGKDVVKVEDEKEREDGKE  
DEGGNEEEAGKEKEDLKEEEEGKEEDEIKEDDGKKEEPQSIV

>sp|O97980|HMHB1\_HUMAN Minor histocompatibility protein HB-1 OS=Homo sapiens GN=HMHB1  
PE=1 SV=1

MEEQPECREEKRGSLHVWSELVEVEDDVYL RHSSSLTYRL

>sp|S4R3Y5|HMN11\_HUMAN Humanin-like 11 OS=Homo sapiens GN=MTRNR2L11 PE=3 SV=1

MATRGFSCLLLVISEIDLSVKRWV

>sp|POCJ73|HMN6\_HUMAN Humanin-like 6 OS=Homo sapiens GN=MTRNR2L6 PE=2 SV=1

MTPRGFSCLLLPTSETDLPVKRRT

>sp|POCJ76|HMN9\_HUMAN Humanin-like 9 OS=Homo sapiens GN=MTRNR2L9 PE=2 SV=1

MARRGFSCLLLSTTATDLPVKRRT

>sp|Q00839|HNRPU\_HUMAN Heterogeneous nuclear ribonucleoprotein U OS=Homo sapiens  
GN=HNRNPU PE=1 SV=6

MSSSPVNVKKLKVSELKEELKKRRLS DKGLKAELMERLQAALDDEEAGGRPAMEPGNGSL  
DLGGDSAGRSGAGLEQEA AAGDEEEEEEEEEEGISALDGDQMELGEENGAAGAADSGP  
MEEEAAASEDENGDDQGFQEGEDELGDEEAGDENGHGEQQPQPPATQQQQPQQRGAA  
KEAAGKSSGPTSLFAVTVAPPGARQQQQAGGKKKAEGGGGGGRPGAPAAGDGKTEQKGG  
DKKRGVKRPREDHGRGYFEYIEENKYSRAKSPQPPVEEEDHFD DTVVCLDTYNCDLHFK  
ISRDRLSASSLTME SFAFLWAGGRASYGVSKGKVCFEMKVTEKIPVRHLYTKDIDIHEVR  
IGWSLTSGMLLGEEFSYGYS LKGIKTCNCETEDYGEKFDENDVITCFANFESDEVELS  
YAKNGQDLGVAFKISKEVLAGRPLFPHVLCHNCAVEFNFGQKEKPYFPIPEEYTFIQNVP  
LEDVRGPKGP EEKKDCEVMMIGLPGAGKTTWVTKHAAENPGKYNILGTNTIMDKMMVA  
GFKQMADTGKLN TLLQRAPQCLGKFI EIAARKKRNFI LDQTNVSAAAQRRKMCLFAGFQ  
RKAVVVC PKDEDYKQRTQKKA EVEGKDLPEHAVLKMKG NFTLPEVAECFDEITYVELQKE  
EAQKLEQYKEESKKALPPEKKQNTGSKKSNKNKSGKNQFNRRGGHRRGGFNMRGGNFR  
GGAPGNRRGGYNRRGNMPQRGGGGGGSGGIGYPYPRAPVFPGRGSYSNRGNYNRGGMPNRRG  
NYNQNFRGRGNRRGYKNQS QGYNQWQQGQFWGQKPWSQH YHQGY

>sp|Q9NSC5|HOME3\_HUMAN Homer protein homolog 3 OS=Homo sapiens GN=HOMER3 PE=1 SV=2

MSTAREQPIFSTRAHVFQIDPATKRNIWIPAGKHALTVSYFYDATRNVYRIISIGGAKAII  
NSTVTPNMTFTKTSQKFGQWADSRANTVYGLGFASEQHLTQFAEK FQEVKEAARLAREKS  
QDGGELTSPALGLASHQVPPSPLVSANGPGE EKLFRSQSADAPGPTERERLKKMLSEGSV  
GEVQWEAEFFALQDSNNKLAGALREANAAAAQWRQQL EARAERLRQRAELEAQAAS  
EVTPTGEKEGLGQGSLEQLEALVQTKDQEI QTLKSQTGGPREALEAAEREETQQKVQDL  
ETRNAELEHQLRAMERSLEEARAERERARA EVGRAAQLLDVSLFELSELREGLARLAEAA

P

>sp|Q8IX15|HOMEZ\_HUMAN Homeobox and leucine zipper protein Homez OS=Homo sapiens GN=HOMEZ PE=1 SV=2

MVRGWEPPLDCAISEGHKSEGMTMPNKEASGLSSSPAGLICLPPISEELQLVWTQAAQ  
TSELDNEHLLKTFSYFPYPSLADIALLCRLRYGLQMEKVKTWFMARLRCGISWSSEEIE  
ETRARVVYRRDQLHFKSLLSFTHAGRPPEEVPPPPVPAPEQVGIGIGPPTLSKPTQTKG  
LKVEPEEPSQMPPLPQSHQKLKESLMTPGSGAFPYQSDFWHLQSSGLSKEQAGRGNQS  
HGIGTASWNHSTTVQPQARDKPPPIALIASCKEESASSVTPSSSSTSSSFQVLANGAT  
AASKPLQPLGCVQSVSPSEQALPPHLEPAWPQGLRHNSVPGRVGPTEYLSPDMQRQRKT  
KRKTKEQLAILKSFFLQCQWARREDYQKLEQITGLPRPEIIQWFGDTRYALKHGQLKWFR  
DNAVPGAPSFQDPAIPTPPPSTRSLNERAETPPLPIPPPPPDIQPLERYWAAHQQLRETD  
IPQLSQASRLSTQQVLDWFDRLPQPAEVVCLDEEEEEEEEEELPEDDEEEEEEEEEDDD  
DDDDDVIIQD

>sp|P32754|HPPD\_HUMAN 4-hydroxyphenylpyruvate dioxygenase OS=Homo sapiens GN=HPD PE=1 SV=2

MTTYSKDGAKPERGRFLHFHSVTFWVGNAKQAASFYCSKMGFEPLAYRGLETGSREVVSH  
VIKQGKIVFVLSSALNPWNKEMGDHLVKHGDGVKDIAFEVEDCDYIVQKARERGAIMRE  
PWVEQDKFGKVKFAVLQTYGDTHTLVKMNQYIGQFLPGYEAPAFMDPLLKLPKCSLEM  
IDHIVGNQPDQEMVSASEWYLNKQFHRFWSVDDTQVHTEYSSLSIVVANYEESIKMPI  
NEPAPGKKKSQIQEYVDYNGGAGVQHIALKTEDIITAIRHLRERGLEFLSVPSTYYKQLR  
EKLKTAKIKVKENIDALEELKILVDYDEKGYLLQIFTKPVQDRPTLFLEVIQRHNHQFGF  
AGNFNSLKFKAEEEEQNLRGNLTNMETNGVPPGM

>sp|P00492|HPRT\_HUMAN Hypoxanthine-guanine phosphoribosyltransferase OS=Homo sapiens GN=HPRT1 PE=1 SV=2

MATRSPGVVISDDEPGYDLDFCIPNHYAEDLERVFIHGLIMDRTERLARDVMKEMGGH  
HIVALCVLKGKGYFFADLLDYIKALNRNSDRSIPMTVDFIRLKSVCNDQSTGDIKVIIGD  
DLSTLTGKNVLIVEDIIDTGKTMQTLSSLVRQYNPKMVKVASLLVKRTPRSVGYPDFVG  
FEIPDKFVVGYALDYNEYFRDLNHVCVISETGAKYKA

>sp|PODMV9|HS71B\_HUMAN Heat shock 70 kDa protein 1B OS=Homo sapiens GN=HSPA1B PE=1 SV=1

MAKAAAIGIDLGTYSVGVGFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVA  
LNPQNTVFDKRLIGRKFGDPVQSDMKHWPQVINDGDKPKVQVSYKGETKAFYPEEIS  
SMVLTKMKEIAEAYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNLRIINEPTAAA  
IAYGLDRTGKGERNVLIIDFLLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNH  
FVEEFKRKHKKDISQNKRAVRRRLTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA  
RFEELCSDLFRSTLEPVEKALRDAKLDAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLN  
KSINPDEAVAYGAQAAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTI  
PTKQTQIFTTYSNPGVLIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDI  
DANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAKEYKADEVQRERVSAN  
ALESYAFNMKSAVEDEGLKGKISEADKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE  
QVCNPIISGLYQGAGGPGPGGFGAGPKGGSGSGPTIEEVD

>sp|O75506|HSBP1\_HUMAN Heat shock factor-binding protein 1 OS=Homo sapiens GN=HSBP1 PE=1 SV=1

MAETDPKTVQDLTSVVQTLLQQMQDKFQTMSDQIIGRIDDMSSRIDDLKNIADLMTQAG  
VEELENKIPATQKS

>sp|Q3SXM5|HSDL1\_HUMAN Inactive hydroxysteroid dehydrogenase-like protein 1 OS=Homo sapiens GN=HSDL1 PE=1 SV=3

MAAVDSFYLLYREIARSCNCYMEALALVGAWYTARKSITVICDFYSLIRLHFIPRLGSRA  
DLIKQYGRWAVVSGATDGIGKAYAEELASRGLNIILISRNEEKLQVVAKDIADTYKVETD  
IIVADFSSGREIYLPIREALKDKDVGILVNNVGVFYPYPQYFTQLSEDKLWDIINVNIAA  
ASLMVHVVLPGMVERKKGAIVTISGSCCKPTQLAAFSASKAYLDHFSRALQYFYASKG  
IFVQSLIPFYVATSMTPASNFLHRCSWLVPSPKVYAHHAVSTLGISKRTTGYWSHSIQFL  
FAQYMPEWLWVWGANILNRSRKEALSCTA

>sp|Q9UBD0|HSFX1\_HUMAN Heat shock transcription factor, X-linked OS=Homo sapiens GN=HSFX1 PE=1 SV=1

MEDKRSLSMARCEERNSRGQDHGLERVFPFPQLQSETYLHPADPSPAWDGPGSTGSPNLR  
LLTEEIAFQPLAEEASFRRPHPDGDVPPQGEDNLLSLPFPQKLWRLVSSNQFSSIWWDDS  
GACRVINQKLFEKEILKRDVAHKVFATTSIKSFFRQLNLYGFRKRRQCTFRTFTRIFSAK  
RLVSILNKLEFYCHPYFQRDSPHLLVRMKRRVGVSAPRHEEDKPEAAGSCLAPADTEQ  
QDHTSPNENDQVTPQHREPAGPNTQIRSGSAPPATPVMVPDSAVASDNSPVTQPAGEWSE  
GSQAHVTPVAAVPGPAALPFLYVPGSPTQMNSYGPVVALPTASRSTLAMDTTGLPAPGML  
PFCHLWVPVTLVAAGAAQPAASMVMFPHLPALHHHCPHSHRTSQYMPASDGPQAYPDYAD  
QST

>sp|P05546|HEP2\_HUMAN Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3

MKHSNLALLIFLIITSAWGGSKGPLDQLEKGGETAQSADPQWEQLNNKNLSMPLLPADFH  
KENTVTNDWIPEGEEDDDYLDLEKIFSEDDDYIDIVDSLVSPTSDSDVSAGNILQLFHGK  
SRIQRLNILNAKFAFNLYRVLKDQVNTFDNIFIAPVGISTAMGMISLGLKGETHEQVHSI  
LHFKDFVNASSKYEITTIHNLFRKLTHRLFRNFGYTILRSVNDLYIQKQFPILLDFKTKV  
REYYFAEAQIADFSDPAFISKTNNHIMKLTGLIKDALENIDPATQMMILNCIYFKGSWV  
NKFPVEMTHNHNFRNLNEREVVKVSMQTKGNFLAANDQELDCDILQLEYVGGISMLIVVP  
HKMSGMKTLEAQLTPRVVERWQKSMTNRTREVLLPKFKLEKNYNLVESLKLGMIRMLFDK  
NGNMAGISDQRIADLFKHGQTITVNEEGTQATTVTTVGFMPLSTQVRFTVDRPFLFLIY  
EHRTSCLLFMGRVANPSRS

>sp|Q9BYE0|HES7\_HUMAN Transcription factor HES-7 OS=Homo sapiens GN=HES7 PE=1 SV=2

MVTRDRAENRDGPKMLKPLVEKRRRDRINRSLEELRLLLLERTRDQNLNPKLEKAEILE  
FAVGYLRERSRVEPPGVPSPVQDAEALASCYLSGFRECLRLAAFAHDASPAARQLFS  
ALHGYLRPKPPRPKVPDPRPPAPRPSLDPAAPALGPALHQRPPVHQGHSPRCAWSPLC  
SPRAGDSGAPAPLTGLLPPPPPPHRQDGAPKAPLPPPPAFWRPWP

>sp|B2RPK0|HGB1A\_HUMAN Putative high mobility group protein B1-like 1 OS=Homo sapiens GN=HMGB1P1 PE=5 SV=1

MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCSEWKTMSAKEKGKF  
EDMAKADKTHYERQMKTYIPPKGETKKKFKDPNAPKRPPSAFFLCSEYHPKIKGEHPGL  
SIGDVAKKLGEMWNNTAADDKQPGKKAALKKEYEKDIAAYQAKGKPEAAKGVVKA EK  
SKKKKEEEDEEEDDEEEDDEEEDDDDE

>sp|Q96QV1|HHIP\_HUMAN Hedgehog-interacting protein OS=Homo sapiens GN=HHIP PE=1 SV=3

MLKMLSFKLLLLAVALGFFEGDAKFGERNESGARRRRCLNGNPPKRLKRRDRRMSQLE  
LLSGGEMLCGGFYPRLSCLLRSDSPGLGRLENKIFSVTNTECGKLEEIKCALCSPHSQ  
SLFHSPEREVLERDLVPLLCCKDYCKEFFYTCRGHIPGFLQTTADEFCFYARKDGGLCF  
PDFPRKQVRGPASNYLDQMEEYDKVEEISRKHKHCFCIQEVVSGLRQPVGALHSGDGSQ

RLFILEKEGYVKILTPEGEIFKEPYLDIHKLVSQGIKGGDERGLLSLAFHPNYKKNKLY  
VSYTTNQRWAIGPHDHILRVVEYTVSRKNPHQVDLRTARVFLEVAELHRKHLGGQLLFG  
PDGFLYIILGDGMITLDDMEEMDGLSDFGTGSLRLDVDTDMCNVPYSIPRSNPHFNSTNQ  
PPEVFAHGLHDPGRCAVDRHPTDININLTILCSDSNGKNRSSARILQIKGKDYESEPSL  
LEFKPFSNGPLVGGFVYRGCQSERLYGSYVFGDRNGNFLTQQSPVTKQWQEKPLCLGTS  
GSCRGYFSGHILGFGEDELGEVYILSSSKSMTQTHNGKLYKIVDPKRPLMPEECRATVQP  
AQTLTSECSRLCRNGYCTPTGKCCSPGWEGDFCRTAKCEPACRHGGVCVRPNKCLCKKG  
YLG PQCEQVDRNIRRVTRAGILDQIIDMTSYLLDLTSYIV

>sp|A8MVS5|HIDE1\_HUMAN Protein HIDE1 OS=Homo sapiens GN=HIDE1 PE=2 SV=2

MPWTILLFAAGSLAIPAPSIRLVPPYPSSQEDPIHIACMAPGNFPGANFTLYRGGQVVQL  
LQAPTDQRGVTFNLSSGSSKAPGGPFHCQYGVLGELNQSQSDLSEPVNVSFPVPTWILV  
LSLSLAGALFLLAGLVAVALVVRKVKLRNLQKKRDRESCWAQINF DSTMSFDNSLFTVS  
AKTMPEEDPATLDDHSGTTATPSNSRTRKRPTSTSSSPETPEFSTFRACQ

>sp|Q9BW72|HIG2A\_HUMAN HIG1 domain family member 2A, mitochondrial OS=Homo sapiens  
GN=HIGD2A PE=1 SV=1

MATPGPVIPEVPFEPSPKPPVIEGLSPTVYRNPEFKEKFVRKTRENPVVPIGCLATAAAL  
TYGLYSFHRGNSQRSQ LMMRTRIAAQGFTVAAILLGLAVTAMKSRP

>sp|Q16534|HLF\_HUMAN Hepatic leukemia factor OS=Homo sapiens GN=HLF PE=2 SV=1

MEKMSRPLPLNPTFIPPPYGVLRSLLENPLKLPLHHEDAFSKDKDKEKKLDDSNSTVP  
QSAFLGPTLWDKTLPYDGDTFQLEYMDLEEFLSENGIPSPSQHDHSPHPPGLQPASSAA  
PSVMDLSSRASAPLHPGIPSPNCMQSPIRPGQLLPANRNTSPIDPDTIQVPVGYEPDPA  
DLALSSIPGQEMFDPRKRKFSEELKPQPMIKKARKVFI PDDLKDDKYWARRRKNMAAK  
RSRDARRLKENQIAIRASFLEKENSALRQEVADLRKELGKCKNILAKYEARHGPL

>sp|P35914|HMGCL\_HUMAN Hydroxymethylglutaryl-CoA lyase, mitochondrial OS=Homo sapiens  
GN=HMGCL PE=1 SV=2

MAAMRKALPRRLVGLASLRAVSTSSMGTLPKRVKIVEVGPRDGLQNEKNIVSTPVKIKLI  
DMLSEAGLSVIETTSFVSPKWVPQMGDHTEVLKGIQKFPGINYPVLTPNLKGFEAAVAAG  
AKEVVIFGAASELFTKKNINCSIEESFQRFDAILKAAQSANISVRGYVSCALGCPYEGKI  
SPAKVAEVTKKFYSMGCYEISLGDITGVGTPGIMKDMLSAVMQEVPLAALAVHCHDITYGQ  
ALANTLMALQMGVSVDSSVAGLGGCPYAQGASGNLATE DLVYMLEGLIHTGVNLQKLL  
EAGNFICQALNRKTSSKVAQATCKL

>sp|O00479|HMG4\_HUMAN High mobility group nucleosome-binding domain-containing protein  
4 OS=Homo sapiens GN=HMG4 PE=1 SV=3

MPKRKAKGDAKGDAKVKDEPQRRSARLSAKPAPPKPEPRPKKASAKKGEKLPKGRKGKA  
DAGKDGNNPAKNRDASTLQSQKAEGTGDAK

>sp|Q9UGU5|HMGX4\_HUMAN HMG domain-containing protein 4 OS=Homo sapiens GN=HMGXB4 PE=1  
SV=2

MAYDDSVKKEDCFDGDHTFEDIGLAAGRSQREKKRSYKDFLREEEEIAAQVRNSSKKKLK  
DSELYFLGTDTHKKRKHSSDDYYYGDISSLESSQKKKKKSSPQSTD TAMDLLKAITSPL  
AAGSKPSKKTGEKSSGSSSHSESKKEHHRKKVSGSSGELPLEDGGSHKSKMKMPLYVNTE  
TLTLREPDGLKMKLILSPKEKGSSSVDEESFQYPSQQATVKKSSKKSARDEQGALLLGHE  
LQSFLKTARKKKHSSDAHSSPPEGCGSDASQFAESHSANLDLSGLEPILVESDSSSGG  
ELEAGELVIDDSYREIKKKKKSKSKKKKDEKHKEKRHSKSKRSLGLSAVPVGEVTVTS  
GPPPSIPYAGAAAPPLPLPGLHTDGHSEKKKKKEEKDKERERGERKPKKKNMSAYQVFCKE

YRVTIVADHPGIDFGELSKKLAEVWKQLPEKDKLIWKQKAQYLQHKQNKAEATTVKRKAS  
SSEGSMMKVKASSVGLSPQKKSPTTMLLPASPAKAPETEPIDVAHLQLLGESLSLIGH  
RLQETEGMVAVSGLSVLLDSIICALGPLACLTTLQPELNGCPKQVLSNTLDNIAYIMPG  
L

>sp|PODMP1|HMN12\_HUMAN Humanin-like 12 OS=Homo sapiens GN=MTRNR2L12 PE=3 SV=1  
MAPRGFSCLLSTSEIDLPMAPVKRRA

>sp|POCJ70|HMN3\_HUMAN Humanin-like 3 OS=Homo sapiens GN=MTRNR2L3 PE=2 SV=1  
MATRRFSCLLSTSEIDLSVKRRI

>sp|POCJ72|HMN5\_HUMAN Humanin-like 5 OS=Homo sapiens GN=MTRNR2L5 PE=2 SV=1  
MATPGFSCLLSTSEIDLPMKRRV

>sp|P09601|HMOX1\_HUMAN Heme oxygenase 1 OS=Homo sapiens GN=HMOX1 PE=1 SV=1  
MERPQPSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVA  
LEEEIERNKESPVFAPVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHE  
VGRTEPELLVAHAYTRYLGDLSSGGVLLKIAQKALDLPSSGEGLAFFTFPNIASATKFKQ  
LYSRMNSLEMTPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDTKDQSPSRAPGLRQRA  
SNKVQDSAPVETPRGKPLNTRSQAPLLRWVLTLSFLVATVAVGLYAM

>sp|Q95460|HMR1\_HUMAN Major histocompatibility complex class I-related gene protein  
OS=Homo sapiens GN=MR1 PE=1 SV=1

MGELMAFLLPLIIVLMVKHSDSRTHSLRYFRLGVSDPIHGVPFISVGYVDSHPITTYDS  
VTRQKEPRAPWMAENLAPDHWERYTQLLRGWQMFVKVELKRLQRHYNHSGSHTYQRMIGC  
ELLEDGSTTGFLQYAYDGDQLIFNKDTLSWLAVDNVAHTIKQAWEANQHELLYQKNWLE  
EECIAWLKRFLEYGKDTLQRTPEPLVRVNRKETFPGVTAFCKAHGFYPPEIYMTWMKNG  
EEIVQEIDYGDILPSGDGTQAWASIELDPQSSNLYSCHVEHCGVHMLVQVPQSEETIPL  
VMKAVSGSIVLVIVLAGVGVLVWRRRPREQNGAIYLPTPDR

>sp|P41235|HNF4A\_HUMAN Hepatocyte nuclear factor 4-alpha OS=Homo sapiens GN=HNF4A PE=1  
SV=3

MRLSKTLVDMMDADYSAALDPAYTTLEFENVQVLTMGNDTSPSEGTLNAPNSLGVSALC  
AICGDRATGKHYGASSCDGCKGFFRRSVRKNHMYSCRFSRQCVDKDKRNQCRYCRLKKC  
FRAGMKKEAVQNERDRISTRSSYEDSSLPSINALLQAEVLSRQITSPVSGINGDIRAKK  
IASIADVCESMKEQLLVLEWAKYIPAFCELPDQVALLRAHAGEHLLLGATKRSMVFK  
DVLLLGN DYIVPRHCPELAEMSRVSIRILDELVLFPQELQIDDNEYAYLKAIIFDPAK  
GLSDPGKIKRLRSQVQSLEDYINDRQYDSRGRFGELLLLPTLQSITWQMIEQIQFIKL  
FGMAKIDNLLQEMLLGGSPSDAPHAHPLHPLMQEHMGNTNIVANTMPHTLSNGQMCEW  
PRPRGQAATPETPQSPPGSGSEPYKLLPGAVATIVKPLSAIPQPTITKQEV I

>sp|Q5SSJ5|HP1B3\_HUMAN Heterochromatin protein 1-binding protein 3 OS=Homo sapiens  
GN=HP1BP3 PE=1 SV=1

MATDTSQGELVHPKALPLIVGAQLIHADKLGEKVEDSTMPIRRTVNSTRETPPKSKLAEG  
EEEKPEPDISSEESVSTVEEQENETPPATSSEAEQPKGEPENEEKEENKSSEETKKDEKD  
QSKEKEKKVKKTI PSWATLSASQLARAQKQTPMASSPRPKMDAILTEAIKACFQKSGASV  
VAIRKYI IHKYPSELEERRGYLLKQALKRELN RGVIKQVKKGASGSFVVVQSRKTPQK  
SRNRKNRSSAVDPEPQVKLEDVLP LAFTRLCEPKEASYSLIRKYVSQYYPKLRVDIRPQL  
LKNALQRAVERGQLEQITGKGASGTFQLKKSGEKPLLGGSLMEYAILSATAAMNEPKTCS  
TTALKKYVLENHPTGNSNYQMHLKKTLQKCEKNGWMEQISGKGFSGTFQLCFPYYPSPG  
VLFPKKEPDDSRDEDEDEDESESEEDSEDEEPPPKRRLQKKTPAKSPGKAASVKQRGSKPA

PKVSAAQRGKARPLPKKAPPAKTPAKKTRPSSTVIKKPSGGSSKKPAT SARKEVKLP GK  
GKSTMKKSFRVKK

>sp|Q6MZM0|HPHL1\_HUMAN Hephaestin-like protein 1 OS=Homo sapiens GN=HEPHL1 PE=2 SV=2

MPRKQPAGCIFLLTFLGSLVGTVTRTYIGIVEEYWNYPQGKNVITGKSFTEDKLAT  
LFLERGPNRIGSIYKAVYRRFTDGTYSIEIPKPPWLGFLGPILRAEVDVIVIHKNFA  
SRPYSLHPHGVFYNKDSEGALYPDGTSGRNKNDDMVPPGKNYTYVWPVREEYAPTPADAN  
CLTWVYHSHIDAPKDICSGLIGPLLVCKEGILNRYSGTRNDVDREFVIMFTLV DENQSWY  
LNENIKHFCTNPDSVDKDAVFQRSNKMHALNGYLFGNFPEPDMCVGESVSWHLFGMGNE  
IDIHSIYFYGNTFISRGHRTDVNLFPATFLTTEMI AENPGKWMITCQVSDHLQAGMLGQ  
YNVDNCKSDIFYPKMGKQRRYFIAAEKILWDYAPQGYNKFSGLPLNASGSDSDLYFTQG  
DNRIGGKYWKVRYTEFVDATFTKRKRLSAAEAHLGILGPV IKAEVGD TLLVTFANKADKV  
YSILPHGVIYDKASDAAPNLDGFKVPGAHVKPGETFTYKWTVPESVSPTAGDPPCLTYLY  
FSAVDPIKDTSSGLVGPLLVCCKGVLNADGTQKGIDKEFYLLFTVFDENLSRYFDENIQK  
FIWHPFSIDKEDKEFVKSNRMHAVNGYMYGNQPG LNMCKRDRVSWHLIGLGTDTDMHGIV  
FQGNTIHLRGTHRDSLALFPHMATTAFMQPDHAGIFRVFCATMPHLSRGMGQIYEVSSCD  
NRDPSEQRYGMIRTFYIAAEEVEWDYAPNKNWEFEKQHV DARGERHGDIFMNRTENWIGS  
QYKKVVYREYTDGEFVEIKARPPREEHLELLGPMIHA EVGNTVLIIFKNKASRPYSISAQ  
GVEEMDSGKQFQVPMTPKGEVKTYRWNIPKRS GPGSPDNCIPWVYYSTVNFVKDTYSGL  
MGPLITCRKGV LNEKGRRSDVDYEFALLFLVF NENESWYLD DNIKKYLNKDPRDFKRTDD  
FEESNRMHAINGKIFGNLHGLIMNEDTMTNWYLLGIGSEVDIHTIHYHAESFLFKIDKSY  
REDVDYDLFPGTFTIELFADHPGTWLLHCHVSDHIHAGMETTYTVLRNIDNRIPYSTTSP  
GVASHPATVPSNERPGKEQLYFFGKNLGPTGAKAALVILFIIG LLLLITTVILSLRLCSA  
MKQTDYQQVQSCALPTDAL

>sp|Q9NWW0|HPIP\_HUMAN Host cell factor C1 regulator 1 OS=Homo sapiens GN=HCFC1R1 PE=1  
SV=1

MILQQPLQRGPQGAQRLPRAALGVTWGLDASSPLRGAVPMSTKRRLEEEQEPLRKQFLS  
EENMATHFSQLSLHNDHPYCSPPMTFSPALPPLRSPCSELLLWRYPGSLIPEALRLRLRG  
DTPSPYPATPAGDIMEL

>sp|Q969F9|HPS3\_HUMAN Hermansky-Pudlak syndrome 3 protein OS=Homo sapiens GN=HPS3 PE=1  
SV=1

MVQLYNLHPFGSQVVPCKLEPDRFCGGGRDALFVAAGCKVEAFVAGQELCQPRCAFST  
LGRVRLRAYSEAGDYLV AIEEKNKATFLRAYVNWRNKRTENS RVCIRMIGHNVEGPFSKA  
FRDQMYIIEEMPLSEAPLCISCCPVKGDLLVGCTNKLVLFS LKYQIINEEFSLDFERSLI  
IHIDNITPVEVSFCVGYVAVMSDLEVLIVKLES GPKNGERVHHHPKTN NRI RTEEGIS  
NEISQLESDDFVICQKPLELLGEKSEQSGLSVTLESTGLADEKRKYSHFQHLLYRRFAPD  
ISSYVLSDDIKLHSLQLLP IYQTGSLTSDGKNLSQEKELLSLFCFFSLPHVGYLYMVVKS  
VELMSVYQYPEKSQQA VLT PQFLHVITSNNLQCFTVRCSAAAAREEDPYMDTTLKACPPV  
SMDVCALRIQLFIGLKAICHFKNHIILLTKAEPEAIPERRQSPKRLLSRKDTSVKIKIPP  
VAEAGWNLYIVNTISPVQLYKEMVDYSNTYKTVKTQSCIHLLSEAHL LVRAALMDASQLE  
PGEKAELLEAFKESCGLHDCYSRLDSQHSHTLPYYKMSGLSMAEVLARTDWTVEDGLQ  
KYERGLIFYINHSLYENLDEELNEELA AKVVQMFYVAEPKQVPHILCSPSMKNINPLTAM  
SYLRKLDTSGFSSILVTLTKAAVALKMGDLD MHRNEMKSHSEMKLVCGF ILEPRLLIQQR  
KGQIVPTELALHLKETQPGLLVASVLGLQKNNKIGIEEADSFFKVLCAKDEDTIPQLLVD  
FWEAQLVACL PDVVLQELFFKLTSQYIWRLSKRQPPD TTPLRTSEDLINACSHYGLIYPW



VHVVISSDSLADKNYTEDLSKLQSLICGPSFDIASIIPFLEPLSEDTIAGLSVHVLCTR  
LKEYEQCIDILLERCPEAVIPYANHELKEENRTLWWKKLLPELCQRIKCGGEKYQLYLSS  
LKETLSIVAVELELKDFMNVLPEDGTATFFLPYLLYCSRKKPLT

>sp|Q9NQG7|HPS4\_HUMAN Hermansky-Pudlak syndrome 4 protein OS=Homo sapiens GN=HPS4 PE=1  
SV=2

MATSTSTEAKSASWWNYFFLYDGSKVKEEGDPTRAGICYFYPSQTLLDQQELLCGQIAGV  
VRCVSDISDSPPTLVRLRKLKFAIKVDGYLWVLGCVELPDVSCRFLDQLVGFFNFYN  
GPVSLAYENCQEELSTEWDTFIEQILKNTSDLHKIFNSLWNLDTKVEPLLLLKAARIL  
QTCQRSPHILAGCILYKGLIVSTQLPPSLTAKVLLHRTAPQEQLPTGEDAPQEHGAALP  
PNVQIIPVFVTKEEAISLHEFPVEQMTRSLASPAGLQDGSAQHHPKGGSTSALKENATGH  
VESMAWTTPDPTSPDEACPDGRKENGCLSGHDLESIRPAGLHNSARGEVLGLSSSLGKEL  
VFLQEELDLSEIHIPEAQEVEMASGHFAFLHVPVDPGRAPYCKASLSASSSLETPPEDT  
AISSLRPPSAPEMLTQHGAQEQLDHPGHSSQAPIPRADPLPRRTRRPLLLPRLDPGQRG  
NKLPTGEQGLDEDVDGVCESHAAPGLECSSGSANCQGAGPSADGISSRLTPAESCMGLVR  
MNLYTHCVKGLVLSLLAEPELLGDSAAIEEVYHSSLASNLGLEVHLKETLPRDEAASTSS  
TYNFTHYDRIQSLLMANLPQVATPQDRRFLQAVSLMHSEFAQLPALYEMTVRNASTAVYA  
CCNPIQETYFQQLAPAARSSGFPNPQDGAFLSGKAKQKLLKHGVNLL

>sp|Q6YN16|HSDL2\_HUMAN Hydroxysteroid dehydrogenase-like protein 2 OS=Homo sapiens  
GN=HSDL2 PE=1 SV=1

MLPNTGRLAGCTVFITGASRGIGKAIKAAKDGANIVIAAKTAQPHPKLLGTIYTAAEE  
IEAVGGKALPCIVDRDEQQISAAVEKAIKKFGGIDILVNNASAI SLTNTLDTPTKRLDL  
MMNVNTRGTYLASKACIPYLKKSVAHILNISPLNLNPVWFKQHCAYTIAKYGMSMYVL  
GMAEEFKGEIAVNALWPKTAIHTAAMDMLGGPGIESQCRKVDIIADAAYSIFQKPKSFTG  
NFVIDENILKEEGIENFDVYAIKPGHPLQPDFFLDEYPEAVSKKVESTGAVPEFKEEKLQ  
LQPKPRSGAVEETFRIVKDSLDDVVKATQAIYLFELSGEDGGTWFLDLKSKGGNVGYGE  
PSDQADVVMSTTDDFVKMFSGKLKPTMAFMSGKLKIKGNMALAIKLEKLMNQMNARL

>sp|Q03933|HSF2\_HUMAN Heat shock factor protein 2 OS=Homo sapiens GN=HSF2 PE=1 SV=1

MKQSSNVPAFLSKLWTLVEETHNEFITWSQNGQSFLVLDEQRFAKEILPKYFKHNNMAS  
FVRQLNMYGFRKVVHIDSGIVKQERDGPVEFQHPYFKQGQDDLENIKRKVSSSKPEENK  
IRQEDLTKIISSAQKVQIKQETIESRSELKSENEVSLWKEVSELRAKHAQQQVIRKIVQ  
FIVTLVQNNQLVSLKRKRPLLLNTNGAQKKNLQFHIVKEPTDNHHHKVPHSRTEGLKPRE  
RISDDIIIDYDVTDDNADEENIPVIPETNEDVISDPNCSQYPDIVIVEDDNEDEYAPVIQ  
SGEQNEPARESLSSGSDGSSPLMSSAVQLNGSSSLTSEDPTMMD SILNDNINLLGKVEL  
LDYLDSDCSLEDFQAMLSGRQFSIDPDLLVDLFTSSVQMNPTDYINNTKSENKGLETTK  
NNVVQPVSEGRKSKSPDKQLIQYTAFLLAFLDGNPASSVEQASTTASSEVLSSVDKP  
IEVDELLDSSLDPEPTQSKLVRLEPLTEAEASEATLFYLCELAPAPLDSMDPLLD

>sp|P17066|HSP76\_HUMAN Heat shock 70 kDa protein 6 OS=Homo sapiens GN=HSPA6 PE=1 SV=2

MQAPRELAVGIDLGTYSVGVFQQGRVEILANDQGNRTTPSYAFTDTERLVGDAAKSQ  
AALNPHNTVFDKRLIGRKFADTTVQSDMKHWPFRVSEGGPKVVRVCYRGEDKTFYPEE  
ISSMVL SKMKETA EAYLGQPVKHAVITVPAYFNDSQRQATKDAGAIAGLNLRIINEPTA  
AAIAYGLDRRGAGERNVLIFDLGGGTFDVSVLSIDAGVFEVKATAGDTHLGGEDFDNRLV  
NHFMEEFRRKHGKDL SGNKRALRRLTACERAKRTLSSSTQATLEIDSLFEGVDFYTSIT  
RARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDVVLVGGSTRIPKVQKLLQDFNNGKE  
LNK SINPDEAVAYGA AVQA AVLMGDKCEKVQDLLLLDVAPLSLGLETAGGVMTTLIQRNA

TIPTKQTQFTTYSNQPVGFIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTF  
DIDANGILSVTATDRSTGKANKITITNDKGRLSKEEVERMVHEAEQYKAEDEAQRDRVAA  
KNSLEAHVFHVKGSLQEESLRDKIPEEDRRKMQDKCREVLAWLEHNQLAEKEEYEHQKRE  
LEQICRPISRLYGGPGVPGSSCGTQARQGDPTGPIIEEVD

>sp|P48741|HSP77\_HUMAN Putative heat shock 70 kDa protein 7 OS=Homo sapiens GN=HSPA7 PE=5  
SV=2

MQAPRELAVGIDLGTYSVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVGDAAKSQ  
AALNPHNTVFDKRLIGRKFAADTTVQSDMKHWPFQVVSEGGKPKVRVCYRGEDKTFYPEE  
ISSMVL SKMKETA EAYLGQPVKHAVITVPTYFSNSQRQATKDAGAIAGLKVLPIINEATA  
AAIAYGLDRRGAGKRNVLIFDLGGGTFDVSLSIDAGVFEVKATAGDTHLGGEDFDNRLV  
NHFMEEFRRKHGKDLSGNKRALRRLTACERAKRTPSSSTQATLEIDSLFEGVDFYKSIT  
RARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDFVLGGGLHSHPPQGA EVAAGLLQRQG  
AEQEHQP

>sp|Q9H3N8|HRH4\_HUMAN Histamine H4 receptor OS=Homo sapiens GN=HRH4 PE=1 SV=2

MPDTNSTINLSLSTRVTLAFFMSLVAFAIMLGNALVILAFVVDKNLRHRSSYFFLNLAIS  
DFFVGVISIPLYIPHTLFEWDFGKEICVFWLT TDYLLCTASVYNIVLISYDRYLSVSNV  
SYRTQHTGV LKIVTLMVAVVWLAFVLNPGMILVSESWKDEGSECEPGFFSEWYILAITSF  
LEFVIPVLVAYFNMNIYWSLWKRDLHLSRCQSHPLTAVSSNICGHSFRGRLSSRRSLSA  
STEVPASFHSERQRRKSSLMFSSRTKMNSNTIASKMGSFSQSDSVALHQREHVELLRARR  
LAKSLAILLG VFAVCWAPYSLFTIVLSFYSSATGPKSVWYRIAFWLQWFNSFVNPLLYPL  
CHKRFQKAFLKIFCIKKQPLPSQHSRSVSS

>sp|P53816|HRSL3\_HUMAN HRAS-like suppressor 3 OS=Homo sapiens GN=PLA2G16 PE=1 SV=2

MRAPIPEPKPGDLIEIFRPFYRHWAIYVG DGYVVHLAPPSEVAGAGAASVMSALTDKAIV  
KKELLYDVAGSDKYQVNNKHDDKYSPLPCSKIIQRAEELVGQEVLYKLTSSENCEHFVNEL  
RYGVARSDQVRDVIIAASVAGMGLAAMSLIGVMFSRNKRQKQ

>sp|O43301|HS12A\_HUMAN Heat shock 70 kDa protein 12A OS=Homo sapiens GN=HSPA12A PE=1 SV=2

MADKEAGGSDGPRETAPTSAYSSPARSLGDTGITPLSPSHIVNDTDSNVSEQQSFLVVVA  
VDFGTTSSGYAYSFTKEPECIHVMRRWEGD PGVSNQKTPPTILLTPERKFHSFGYAARD  
FYHDLDPNEAKQWLYLEKFKMKLHTTGDLTMDTLTAANGKKVKALEIFAYALQYFKEQA  
LKELSDQAGSEFENDSVRWVITVPAIWKQPAKQFMRQAAYQAGLASENSEQLIIALEPE  
AASIYCRKLRLHQMIELSSKAAVNGYSGSDTVGAGFTQAKEHIRNRQSRFTLVENVIGE  
IWSELEEGDKYVVVDSSGGTVDLTVHQIRLPEGHLKELYKATGGPYGSLGVDYEFKLLY  
KIFGEDFIEQFKIKRPAAWVDLMIAFESRKRAAAPDRTNPLNITLPFSFIDYYKKFRGHS  
VEHALRKSNDVDFVKSSQGMRLMSPDAMNALFKPTIDSII EHLRDLFQKPEVSTVKFLFL  
VGGFAEAPLLQQAVQAAFGDQCRIIIPQDVGLTILKGAVLFLGDPVAVIKVRRSPLTYGVG  
VLNRYVEGKHPPEKLLVKDGRWCTDVFDKFI SADQSVALGELVKRSYTPAKPSQLVIVI  
NIYSSEHDNVSFITDPGVKKCGTLRLDLTGTS GTAVPARREIQTLMQFGDTEIKATAIDI  
ATSKSVKVGIDFLNY

>sp|Q9ULV5|HSF4\_HUMAN Heat shock factor protein 4 OS=Homo sapiens GN=HSF4 PE=1 SV=2

MQEAPAAPLPTPEGPSFVPAFLGKLWALVGDPGTDHLIRWSPSGTSFLVSDQSRFAKEVLP  
QYFKHSNMASFVRQLNMYGFRKVVSI EQGGLLRPERDHVEFQHPSFVRGREQLLERRRK  
VPALRGDDGRWRPEDLGRLLGEVQALRGVQESTEARLRELQQNEILWREVVTLRQSHGQ  
QHRVIGKLIQCLFGPLQAGPSNAGGKRKLSLMLDEGSSCPTAKFNTCPLPGALLQDPYF  
IQSPLPETNLGLSPHRARGPIISDIPEDSPSPEGTRLSPSSDGRREKGLALLKEEPASPG

GDGEAGLALAPNECDFCVTAPPLPVAVVQAILEGKGSFSPEGPRNAQQPEPGDPREIPD  
RGPLGLESGBDRSPESLLPPMLLQPPQESVEPAGPLDVLGPSLQGREWTLMDLDMELSLMQ  
PLVPERGEPELAVKGLNSPSPGKDPTLGAPLLLDVQAALGGPALGLPGALTIYSTPESRT  
ASYLGPEASPS

>sp|QOVD9|HSP7E\_HUMAN Heat shock 70 kDa protein 14 OS=Homo sapiens GN=HSPA14 PE=1 SV=1  
MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNI  
SNTVMKVQILGRSSSDPQAQKYIAESKCLVIEKNGKLRYEIDTGEETKFVNPEDVARLI  
FSKMKETAHSVLSGDANDVITVPFDGKQKNALGEAARAAGFNVRLIHEPSAALLAY  
GIGQDSPTGKSNILVFKLGGTSLSVMEVNSGIYRVLSTNTDDNIGGAHFTETLAQYLA  
SEFQSFKHVDVRGNARAMMKLNSAEVAKHSLSTLGSANCFDLSLYEGQDFDCNVSRRF  
ELLCSPFNKCIETIRGLLDQNGFTADDINKVVLGGSSRIPKLQQLIKDLFPAVELLNS  
IPPDEVIPIGAAIEAGILIGKENLLVEDSLMIECSARDILVKGVDESGASRFTVLFPSGT  
PLPARRQHTLQAPGSISSVCELYESDGKNSAKEETKFAQVVLQDLDDKENGRLDILAVL  
TMKRDGSLHVTCTDQETGKCEAISIEIAS

>sp|O14558|HSPB6\_HUMAN Heat shock protein beta-6 OS=Homo sapiens GN=HSPB6 PE=1 SV=2  
MEIPVPVQPSWLRASAPLPLGLSAPGRLFDQRFGEGLLEAELAALCPTTLAPYYLRAPSV  
ALPVAQVPTDPGHFVLLDVKHFSPEEIAVKVVEHVEVHARHEERPDEHGFVAREFHRR  
YRLPPGVDPAAVTSALSPEGVLSIQAAPASQAAPPAAAK

>sp|P42357|HUTH\_HUMAN Histidine ammonia-lyase OS=Homo sapiens GN=HAL PE=1 SV=1  
MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPNDGGFTSVDDAHFLVRRCKG  
LGLLDNEDRLEVALENNEFVEVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDR  
LTTEDLVNLGKGRYIKLTPTAEKRVQKSREVIDSIIKEKTVVYGITTGFGKFARTVIP  
NKLQELQVNLVRSHSSGVGKPLSPERCRLALRINVLAKGYSGISLETLKQVIEMFNAS  
CLPYVPEKGTVGASGLAPLSHLALGLVGEKMWSPKSGWADAKYVLEAHGLKPVILKPK  
EGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDTDIHALRPHRG  
QIEVAFRFRSLDSDHHPSEIAESHRFCDRVQDAYTLRCCPQVHGVDNTIAFVKNIITT  
ELNSATDNPMVFANRGETVSGGNFHGEYPAKALDYLAIGIHELAAISERRIERLCNP  
SLS  
ELPAFLVAEGLNSGFMIAHCTAAALVSENKALCHPSSVDSLSTSAATEDHVS  
MGGWAAR  
KALRVIEHVEQVLAIELLAACQGIEFLRPLKTTTPLEKVYDLVRSVVRPWIKDRF  
MAPDI  
EAAHRLLEQKVWEAAPYIEKYRMEHIPESRPLSPTAFSLQLHKKSTKIPESDL

>sp|P23083|HV102\_HUMAN Immunoglobulin heavy variable 1-2 OS=Homo sapiens GN=IGHV1-2 PE=1 SV=2  
MDWTWRILFLVAAATGAHSQVQLVQSGAEVKKPGASVKVSCKASGYTFTGYYMHVVRQAP  
GQGLEWMGWINPNSGGTNYAQKFQGWVTMTDRDTSISTAYMELSRLSDDTAVYYCAR

>sp|P01782|HV309\_HUMAN Immunoglobulin heavy variable 3-9 OS=Homo sapiens GN=IGHV3-9 PE=1 SV=2  
MELGLSWIFLLAILKGVQCEVQLVESGGGLVQPGRSLRLSCAASGFTFDDYAMHWVRQAP  
GKGLEWVSGISWNSGSGIYADSVKGRFTISRDNKNSLYLQMNSLRAEDTALYYCAKD

>sp|P01772|HV333\_HUMAN Immunoglobulin heavy variable 3-33 OS=Homo sapiens GN=IGHV3-33 PE=1 SV=2  
MEFGLSWVFLVALLRGVQCQVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAP  
GKGLEWVAVIWDGSKNYADSVKGRFTISRDNKNTLYLQMNSLRAEDTAVYYCAR

>sp|P31271|HXA13\_HUMAN Homeobox protein Hox-A13 OS=Homo sapiens GN=HOXA13 PE=1 SV=3  
MTASVLLHPRWIEPTVMFLYDNGGGLVADELNKNMEGAAAAAAAAAAAAAAAAAGAGGGGPH

PAAAAAGNFSVAAAAAAAAAAAAANQCRNLMAHPAPLAPGAASAYSSAPGEAPPSAAAAA  
AAAAAAAAAAAAASSSGGPGPAGPAGAEAAKQCSPCSAAAQSSSGPAALPYGYFGSGYYP  
CARMGPHPNAIKSCAQPASAAAAAFADKYMDTAGPAAEEFSSRAKEFAFYHQGYAAGPY  
HHHQPMPGYLDMPVVPGLGGPGESRHEPLGLPMESYQPWALPNGWNGMYCPKEQAQPPH  
LWKSTLPDVVSHPSDASSYRRGRKKRVPYTKVQLKELEREYATNKFITKDKRRRISATTN  
LSERQVTIWFQNRrvKEKKVINKLKTTs

>sp|P31268|HXA7\_HUMAN Homeobox protein Hox-A7 OS=Homo sapiens GN=HOXA7 PE=2 SV=3  
MSSSYVNALFSKYTAGASLFGNAEPTSCSFAPNSQRSGYGAGAGAFSTVPGLYNVNSP  
LYQSPFASGYGLGADAYGNLPCASYDQNIPLGLCSDLAKGACDKTDEGALHGAAEANFRIY  
PWMRSSGPDRKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQN  
RRMKWKEHKDEGPTAAAAPEGAVPSAAATAADKADEEDDDEEEDEEEE

>sp|Q92826|HXB13\_HUMAN Homeobox protein Hox-B13 OS=Homo sapiens GN=HOXB13 PE=1 SV=2  
MEPGNYATLDGAKDIEGLLGAGGGRNLVAHSPLTSHPAAPTLMpAVNYAPLDLPGSAEPP  
KQCHPCPGVPQGTSPAPVPYGYFGGGYYSRVSRLKPCAQAATLAAYPAETPTAGEEY  
PSRPTFAFYPGYPGTYPMASYLDVSVVQTLGAPGEPRHDSLLPVDSYQSWALAGGWNS  
QMCCQGEQNPPGPFWKAADFSSGQHPDACAfRRGRKKRIPYSGQLRELEREYAANKF  
ITDKRRKISAAATSLSERQITIWFQNRrvKEKKVLAKVKNSATP

>sp|P14651|HXB3\_HUMAN Homeobox protein Hox-B3 OS=Homo sapiens GN=HOXB3 PE=2 SV=2  
MQKATYYDNAAALFGGYSSYPGSNGFGFDVPPQPPFQAATHLEGDYQRSACSLQSLGNA  
APHAkskelNGSCMRPLGAPELSAPPgSPPPSAAPTSATSNSSNGGGSksGSPPKCGPG  
TNSTLTkQIFPwmkesRQTSKLKNNSPGTAEGCGGGGGGGGGSGSGGGGGGGGGGDK  
SPPGSAASKRARTAYTSAQLVELEKEFHFNRYLCRPRRVEMANLLNSERQIKIWFQNRR  
MKYKKDQKAKGLASSSGGSPAGSPPQPMQSTAGFMNALHSMTPSYESPSPPAFGKAHQN  
AYALPSNYQPPLKGCgapQKYPPTPAPEYEPHVLQANGGAYGTPTMQGSPVYVGGGGYAD  
PLPPPAGPSLYGLNHLSHHPSGNLDYNGAPPMAPSQHhGPCEPHPTYTDLSSHHAPPPQG  
RIQEAPKLTHL

>sp|Q9NYD6|HXC10\_HUMAN Homeobox protein Hox-C10 OS=Homo sapiens GN=HOXC10 PE=1 SV=2  
MTCPRNVTPNSYAELAAPGGGERYSRSAGMYMQSGSDFNCGVMRGCLAPSLSKRDEGS  
SPSLALNTYPSYLSQLDSWGDpKAAYRLEQPVGRPLSSCSYPPSVKEENVCCMYSAEKRA  
KSGPEAALYSHPLPESCLGEHEVPVPSYYRASPSYSALDKTPHCSGANDFEAPFEQRASL  
NPRAEHLESPQLGGKVSFPETPKSDSQTPSPNEIKTEQSLAGPKGSPSESEKERAKAADS  
SPDTSdNEAKEEIKAENTTGNWLTAKSGRKKRCPYTKHQTLLELEKEFLNMYLTRERRLE  
ISKtINLTDRQVKIWFQNRRMKLKKMNRENRIRELTSNfnFT

>sp|P31275|HXC12\_HUMAN Homeobox protein Hox-C12 OS=Homo sapiens GN=HOXC12 PE=3 SV=2  
MGEHLLNPGFVGPLVNIHTGDTFYFPNFRASGAQLPGLPSLSYPRRDNVCSLSWPSAEP  
CNGYPQPYLGSPVSLNPPFGRTCELARVEDGKGYREPCAEGGGGGLKREERGRDPGAGP  
GAALLPLEPSGPPALGfKYDYAAGGGGGGGGAGPPHDPSCQSLESdSSSSLLNEGNK  
GAGAGDPGSLVSPLNPGGLSASGAPWYPINSRSRKKRKPYskLQLAELEGEFLVNEFIT  
RQRRRELSDRLNLSdQqVKIWFQNRRMKKRLLLREQALSFF

>sp|P31276|HXC13\_HUMAN Homeobox protein Hox-C13 OS=Homo sapiens GN=HOXC13 PE=1 SV=3  
MTTSLLLHPRWPESLMYVYEDSAAESGIGGGGGGGGGTGGAGGGCSGASPGKAPSMdGL  
GSSCPASHCRDLLPHpVLGRPPAPLGAPQGAyYTDIPAPEAARQCAPPpAPTSSSATLG  
YGYPFgGSYYGCRLSHNvNLQqKPCAYHPGDkYPEPSGALPGDDLSSRAKEFAFYPSFAS  
SYQAMPGYLDVSVVPGISGHPEPRHDALIPVEGYQHWALSNGWDSQVYCSKEQSQAHLW

KSPFPDVVPLQPEVSSYRRGRKKRVPTKVQLKELEKEYAASKFITKEKRRRISATTNLS  
ERQVTIWFQNRrvKEKKVVSksKAPHLHST

>sp|043820|HYAL3\_HUMAN Hyaluronidase-3 OS=Homo sapiens GN=HYAL3 PE=1 SV=1

MTTQLGPALVLGVALCLGCGQLPQVPERPFSVLWNVPSAHCEARFGVHLPLNALGIIAN  
RGQHFHGQNMtIfYKNQLGLYPYFGPRGTAHNGGIPQALPLDRHLALAAYQIHHSRLPGF  
AGPAVLdWEEWCPLWAGNWGRRRAYQAASWAWAQVFPDLDpQEQLYKAYTGFEQAARAL  
MEDTLRVAQALRPHGLWGFYHYPCAGNGWHSMAStYGRCHAATLARNTQLHWLWAASSA  
LFPSIYLPPRLPPAHHQAFVRHRLLEEAFRVALVGHrHPLPVLAYVRLTHRRSGRFLSQDD  
LVQSIGVSAALGAAGVVLWGDLSLSSSEECWHLHDYLVDTLGPYVINVTRAAMACSHQR  
CHGHGRcARRDPGQMEaFLHLWPDGSLGDWKSFSCHCYWGwAGPTCQEPRPGPKEAV

>sp|Q92819|HYAS2\_HUMAN Hyaluronan synthase 2 OS=Homo sapiens GN=HAS2 PE=2 SV=1

MHCERFLCILRIIGTTLFGVSLLLGITAAYIVGYQFIQTDNYYFSFGLYGAFSLASHLIQ  
SLFAFLEHRKMKSLETPiKLNKTVALCIAAYQEDPDYLRKCLQSVKRLTYPGIKVMVI  
DGNSEDDLYMMDIFSEVMGRDKSATYiWKNNFHEKGPGETDESHKESSQHVTQLVLSNKS  
ICIMQKWGGKREVMYtAFRALGRSDYVQVCDSDTMLDPASSVEMVKVLEEDPMVGGVGG  
DVQILNKYDSWiSFLSSVRYWMAFNIERACQSYFGCVQCISGPLGMYRNSLLHEFVEDWY  
NQEFMGnQCSFGDDRHLTNrVLSLGYATKYTARSKCLTETPIEYLRWLNQqTRWSKSYFR  
EWLYNAMWFHKHHLWMTYEAiITGFFPFLIATVIQLFYRGKIWNILLFLLTVQLVGLIK  
SSFASCLRGNIVMVFMslYSVLYMSSLLPAKMFAIATINKAGWGTSGRKTIVVnFIGLIP  
VSVWFTILLGGVIFTiYKESKRPFSESKQTVLIVGTLLYACYWVMLLTLYVVLinkCGRR  
KKGQQYDMVLDV

>sp|A2RU49|HYKK\_HUMAN Hydroxylysine kinase OS=Homo sapiens GN=HYKK PE=1 SV=2

MSSGNYQQSEALSKPTFSEEQASALVESVfGLKVSKVRPLPSYDDQNFHVYVSKTKDGPT  
EYVLKISNTKASKNPDLIEVQNHIMFLKAAGFPTASVCHTKGDNTASLVSDSGSEIKS  
YLVRLLTyLPGRPIAELPVSPQLLYEIGKLAAKLDKTLQRFHHPKLSSLHRENFIWNLKN  
VPLEKYLALGQNRNREIVEHVihLFKEEVMTKLSHFRECINHGDLNDHNILIESKSA  
SGNAEYQVSGILDFGDMSYGYVFEVAITIMYMMIESKSPiQVGGHVLAGFESITPLTAV  
EKGAFLLLVCSRfCQSLVMAAYSCQLYPENKDYLMTAKTGWkHLQqMFDMGQKAVEEiW  
FETAKSYESGISM

>sp|Q6ZQW0|I2302\_HUMAN Indoleamine 2,3-dioxygenase 2 OS=Homo sapiens GN=IDO2 PE=1 SV=4

MLHFHYyDTSNKIMEPHRPNVKTAVPLSLESYHISeEYGfLLPDSLKELPDHYRPWMEIA  
NKLPLQIDAHLQAHDKMPLLSCQFLKGHREQRLAHLVLSFLTMGYVWQEGEAQPAEVL  
PRNLALPFVEVSRNLGLPPILVHSDLVLTNWTkKDPDGfLEIGNLETiISFPGGESLHGF  
ILVTALVEKEAVPGIKALVQATNAILQPNQEALLQALQRLRLSIQDITKTLGQMhDYVDP  
DIFYAGIRIFLSGWKDNpAMPAGLMEGVsQEPLKYSGGSAAQSTVLHAFDEFLGIRHSK  
ESGDfLYRMrdYMPPSHKAFIEDIHsAPSLRDYILSSGQDHLLTAYNQCVQALAElsYH  
ITMVTkYLITAAAKAKHGKPNHLPGPPQALKDRGTGTAvmSFLKSVRDKTLESILHPRG

>sp|Q8IU81|I2BP1\_HUMAN Interferon regulatory factor 2-binding protein 1 OS=Homo sapiens  
GN=IRF2BP1 PE=1 SV=1

MASVQASRRQWCYLCdLPKMPWAMVWDFSEAVCRGCVNFEGADRIELLIDAARQLKRSHV  
LPEGRSPGPPALKHPATKDLaAAAAQGPQLPPPQAQPQPSGTGGGVSGQDRYDRATSSGR  
LPLPSALEYTLGSRLANGLGREEAVAEGARRALLGSMPGLMPpGLLaAAVSGLGSRGLT  
LAPGLSPARPLFGSDFEKEKQQRNADCLAElnEAMRGRAEEWHGRPKAVREQLLALSACA  
PFNVRfKKDHGLVGRVFAFDATARPPGYEFELKLfTEYPCSGSNVYAGVLAVARQMfHDA

LRPGKALASSGFKYLEYERRHGSGEWRQLGELLTDGVRSFREPAPAEALPQQYPEPAPA  
ALCGPPPRAPSRNLAPTPRRRKASPEPEGEAAGKMTTEEQQQRHWVAPGGPYSAETPGVP  
SPIAALKNVAEALGHSPKDPGGGGGPVRAGGASPAASSTAQPPTQHRLVARNGEAEVSPT  
AGAEAVSGGGSGTGATPGAPLCCTLCRERLEDTHFVQCPSVPGHKFCFPCSREFIKAQGP  
AGEVYCPSGDKCPLVGSSVPWAFMQGEIATILAGDIKVKKERDP

>sp|A6NMX2|I4E1B\_HUMAN Eukaryotic translation initiation factor 4E type 1B OS=Homo sapiens  
GN=EIF4E1B PE=3 SV=3

MLAVEVSEAEGGIREWEEEEEEEEAAERTPTGEKSPNSPRTLLSLRGKARTGGPMEVKLE  
LHPLQNRWALWFFKNDRSRAWQDNLHLVTKVDTVEDFWALYSHIQLASKLSSGCDYALFK  
DGIQPMWEDSRNKRGGRWLVSLAKQQRHIELDRLWLETLLCLIGESFEEHSREVC GAVVN  
IRTKGDKIAVWTREAEHQAGVLHVGRVYKERLGLSPKTIIGYQAHADTATKSNSLAKNKF  
VV

>sp|P32019|I5P2\_HUMAN Type II inositol 1,4,5-trisphosphate 5-phosphatase OS=Homo sapiens  
GN=INPP5B PE=1 SV=4

MDQSVATQETLAEGEYCVIAVQGVLCGDSRQSRLGLVRYRLEHGGQEHALFLYTHRRM  
AITGDDVSLDQIVPVS RDTLEEVSPDGELYILGSDVTVQLDTAELSLVFQLPFGSQTRM  
FLHEVARACPGFDSATRDEFLWLSRYRCAELEEMPTPRGCNSALVTWPGYATIGGGRY  
PSRKKRWGLEEARPGAGSVLFWGGAMEKTGFRLMERAHGGGFVWGRSARDGRRDEELEE  
AGREMSAAAGSRERNTAGGSNFDGLRPNGKGVPMQSSRGQDKPESLQPRQNKSKSEITD  
MVRSSITITVSDKAHILSMQKFGLRDTIVKSHLLQKEEDYTYIQNFRFFAGTYNVNGQSPK  
ECLRLWLSNGIQAPDVYCVGFQELDLKEAFFFHDTPKKEEWFKA VSEGLHPDAKYAKVK  
LIRLVGIMLLLYVKQEHAAYISEVEAETVGTGIMGRMGNGGVAIRFQFHNTSICVVNSH  
LAAHIEEYERRNQDYKDICSRMQFCQPDPSLPPLTISNHDVILWLGDNLNRYIEELDVEKV  
KKLIEEKDFQMLYAYDQLKIQA AKTVFEGFTEGELTFQPTYKYDTGSDDWDTSEKCRAP  
AWCDRILWKGKNITQLSYQSHMALKTS DHKPVSSVFDIGVRVVDNELYRKTLEEIVRSLD  
KMEANANIPSVLSKREFCFQNVKYMQLKVESFTIHNGQVPCHFEFINKPDEESYCKQWLN  
ANPSRGFLLPDS DVEIDLELFVNKMTATKLNSGEDKIEDILVLHLDRGKDYFLSVSGNYL  
PSCFGSPIHTLCYMPREILDPLETISELTMPVWTGDDGSQLDSPMEIPKELWMMVDYL  
YRNAVQQEDLFQQPLRSEFEHIRDCLDTGMIDNLSASNHSVAEALLLFLESLPEPVICY  
STYHNCLECSGNYTASKQVISTLPIFHKNVFHYLMAFLRELLKNSAKNHLDENILASIFG  
SLLLRNPAGHQKLD MTEKKKAQEFTHQFLCNPL

>sp|P10997|IAPP\_HUMAN Islet amyloid polypeptide OS=Homo sapiens GN=IAPP PE=1 SV=1  
MGILKLQVFLIVLSVALNHLKATPIESHQVEKRKCNTATCATQRLANFLVHSSNNFGAIL  
SSTNVGSNTYGKRNAVEVLKREPLNYLPL

>sp|P22692|IBP4\_HUMAN Insulin-like growth factor-binding protein 4 OS=Homo sapiens  
GN=IGFBP4 PE=1 SV=2

MLPLCLVAALLLAAGPGPSLGDEAIHCPCSEK LARCPVPVGEELVREPGGCCATCA  
LGLGMPCGVYTPRCGSLRCYPPRGVEKPLHTLMHGQGVCMELAEIEA IQESLQPSDKDE  
GDHPNNSFSPCSAHDRRCLQKHFAKIRDRSTSGGKMKVNGAPREDARVPVQGSCQSELHR  
ALERLAASQSRTHEDLYIIPINCDRNGNFHPKQCHPALDGQRGKCWCVDRKTGVKLP GG  
LEPKGELDCHQLADSFRE

>sp|Q8NDH6|ICA1L\_HUMAN Islet cell autoantigen 1-like protein OS=Homo sapiens GN=ICA1L  
PE=1 SV=1

MDSFGQPRPEDNQSVVRRMQKKYWKTKQVFIKATGKKEDEHLVASDAELDAKLEVFHVSQ

ETCTELLKIIIEKYQLRLNVISEEEENELGLFLKFAERDATQAGKMMDATGKALCSSAKQR  
LALCTPLSRLKQEVATFSQRAVSDTLMTINRMEQARTEYRGALLWMKDVSQELDPDTLKQ  
MEKFRKVQMQRNSKASFDKLMKMDVCQKVDLLGASRCNMLSHSLTTYQRTLLGFWKKTAR  
MMSQIHEACIGFHPYDFVALKQLQDTPSKI SEDNKDEQIGGFLEQLNKLVLSDDEASFE  
SEQANKDHNEKHSQMREFGAPQFSNSENVAKDLPVDSLEGEDFEKEFSFLNNLLSSGSSS  
TSEFTQECQTAFGSPSASLTSQEFSMGSEPLAHSSRFLPSQLFDLGFHVAGAFNNWVSQE  
ESELCLSHTDNQPVPSQSPKKLTRSPNNGNQDMSAWFNLFADLDPLSNPDAIGHSDDELL  
NA

>sp|Q05084|ICA69\_HUMAN Islet cell autoantigen 1 OS=Homo sapiens GN=ICA1 PE=1 SV=2

MSGHKCSYPWDLQDRYAQDKSVVNKMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKL  
ELFHSIQRTCLDLSKAIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKAL  
CFSSQQLALRNPLCRFHQEVETFRHRAISDTWLTVNRMEQCRTEYRGALLWMKDVSQEL  
DPDLYKQMEKFRKVQTQVRLAKKNFDKLMKMDVCQKVDLLGASRCNLLSHMLATYQTTLH  
FWEKTSHTMAA IHESFKGYQPYEFTTLKSLQDPMKKLVEKEEKKKINQQESTDAAVQEPS  
QLISLEENQRKESSFKTEDGKSILSALDKGSTHTACSGPIDELDMKSEEGACLGPA  
GTPEPEGADKDDLLLLSEIFNASSLEEGEFSKEWAAVFGDGQVKEPVPTMALGEPDPAQ  
TGSGFLPSQLLDQNMKDLQASLQEPAKAASDLTAWFSLFADLDPLSNPDAVGKTDKEHEL  
LNA

>sp|Q9UMF0|ICAM5\_HUMAN Intercellular adhesion molecule 5 OS=Homo sapiens GN=ICAM5 PE=1  
SV=3

MPGSPGLRRALLGLWAALGLGLFGLSAVSQEPFWADLQPRVAFVERGGSLWLCSTNCP  
RPERGGLETSLRRNGTQRGLRWLARQLVDIREPETQPVCFFRCARRTLQARGLIRTFQRP  
DRVELMPLPPWQPVGENFTLSCRVPGAGPRASLTLLRGAQELIRRSFAGEPPRARGAV  
LTATVLARREDHGANFSCRAELDLRPHGLGLFENSAPRELRTFSLSPDAPRLAAPRLLE  
VGSERPVSCITLDGLFPASEARVYALGDQNLSPDVTLEGDAFVATATATASAEQEGARQL  
VCNVTLLGGENRETRENTIYSFPAPLLTSEPSVSEGMVTVTCAAGAQUALVTLEGVPAA  
VPGQPAQLQLNATENDRRSFFCDATLDVDGETLIKNSAELRVLYAPRLDDSDCPRSWT  
WPEGPEQTLRCEARGNPEPSVHCARSDDGGAVLALGGLGPVTRALSGTYRCKAANDQGEAV  
KDVTLTVEYAPALDSVGCPERITWLEGTEASLSCVAHGVPDPVICVRSGELGAVIEGLL  
RVAREHAGTYRCEATNPRGSAAKNAVTVVEYGRPFEEPCPSNWTWVEGSGRLFSCEVDG  
KPQPSVKCVSGGATEGVLLPLAPPDPSRAPRIPRVLAPGIYVCNATNRHGSVAKTVVV  
SAESPPEMDESTCPSHQTWLEGAEASALACAARGRPSPGVRCAREGIPWPEQQRVSREDA  
GTYHCVATNAHGDSRTVTVGVEYRPVVAELAASPPGGVRPGENFTLTCRAEAWPPAQIS  
WRAPPALNIGLSSNNSTLSVAGAMGSHGGEYCAATNAHGRHARRITVRVAGPWLWVAV  
GGAAGGAALLAAGAGLAFYVQSTACKKGEYNVQEAESSGEAVCLNGAGGGAGGAAGAEAG  
PEAAGGAAESPAEGEVFAIQLTSA

>sp|Q96JK4|HHIP1\_HUMAN HHIP-like protein 1 OS=Homo sapiens GN=HHIP1 PE=2 SV=2

MARARAGALLALWVLGAAAHPCQLDFRPPFRPTQPLRLCAQYSDFGCCDEGRDAELTRRF  
WALASRVDAAEWAACAGYARDLLCQECSPYAAHLYDAEDPFTPLRTVPGLCQDYCLDMWH  
KCRGLFRHLSTDQELWALEGNLARFCRYLSLDDTDYCFPYLLVNKNLNSNLGHVVADAKG  
CLQLCLEEVANGLRNPVAMVHARDGTHRFFVAEQVGLVWAYLPDRSRLGKPFNLISRVVL  
TSPWEGDERGFLGIAFHPSFQHNRLYVYYSVGIRSEWIRISEFRVSEDDENAVDHSSE  
RIILEVKEPASNHNGQLLFGDDGYLIIFTGDGGMAGDPFGTFGNAQNKSALLGKVLRID  
VDRKERGLPYGIPDPNPFVGDPAQAQEVYALGVRNMWRCSFDRGDPSSGTGRGRLFCGDV

GQNKFEEDVVERGGNYGWRAREGFECYDRSLCANTSLNDLLPIFAYPHTVGKSVTGGYV  
YRGCEYPNLNGLYIFGDFMSGRLMSLQENPGTGQWQYSEICMGHGQTCEFPGLINNYYPY  
IISFGEDEAGELYFMSTGEPSATAPRGVVYKIIDASRRAPPGKCQIQPAQVKIRSRLIPF  
VPKEKFIPKTRSTPRPTARAPTRAPRRGRPTAAPPAPTTPRPARPTQQPGSRRGGRRRGR  
LNSASAFRDGEVRLVRPAGLSSGSGRVEVFVGGRWGTVCDDSWNISGAAVVCRQLGFAY  
AVRAVKRAEFGQGGSLPILLDDVRCAGWERNLLECGHNGVGTHNCEHDEDAGVVC SHQNP  
DL

>sp|B7ZW38|HNR3\_HUMAN Heterogeneous nuclear ribonucleoprotein C-like 3 OS=Homo sapiens  
GN=HNRNPCL3 PE=2 SV=1

MASVNTNKMDPHSMNSRVFIGNLNTLVVKKSDVEAIFSKYKGIAGCSVHKGFVQYDKE  
KNARAAVAGEDGRMIASQVVDINLAAEPKVNRRGAGVKRSAAEMYGSSFDLDYNLQRDYY  
GGMYSFPARVPPPPPIALAVVPSKRQRISGNTSRRGKSGFNSKSGKRGSSKSGKLKDDL  
QAIKQELTQIKQKVDLSLENLEKIEKEHCKQGEVKNKSEEEQTSSSSKKDKTHVKMES  
EGGADDSVEEGDLLCDDNEDQGDNLLELIKDDEKGAEEGEDDRDRANGQDDS

>sp|P55795|HNRH2\_HUMAN Heterogeneous nuclear ribonucleoprotein H2 OS=Homo sapiens  
GN=HNRNP H2 PE=1 SV=1

MMLSTEGREGFVVKVRGLPWSCSADEV MRFFSDCKIQNGTSGIRFIYTREG RPSGEAFVE  
LESEEEVKLALKKDRETMGHRYVEVFKSNSVEMDWVLKHTGPNSPDTANDGFVRLRGLPF  
GCSKEEIVQFFSGLEIVPNGMTLPVDFQGRSTGEAFVQFASQEI AEKALKKKHKERIGHRY  
IEIFKSSRAEVRTHYDPPRKLMMQRP GPYDRPGAGRGYNSIGRGAGFERMRRGAYGGGY  
GGYDDYGGYNDGYGFGSDRFRDLNYCFSGMSDHRYGDGGSFQSTTGHCVMRGLPYRA  
TENDIYNFFSPLNPMRVHIEIGPDGRVTGEADVEFATHEDAVAAMAKDKANMQHRYVELF  
LNSTAGTSGGAYDHSYVELFLNSTAGASGGAYGSQMMGGMGLSNQSSYGGPASQQLSGGY  
GGGYGGQSSMSGYDQVLQENSSDYQSNLA

>sp|Q8WVV9|HNRL\_HUMAN Heterogeneous nuclear ribonucleoprotein L-like OS=Homo sapiens  
GN=HNRNPLL PE=1 SV=1

MSSSSSPRETYEEDREYESQAKRLKTEEGEIDYSAEEGENRREATPRGGGDGGGGGRSF  
SQPEAGGSHHKVSVSPVHVRLCESVVEADLVEALEKFGTICYVMMMPFKRQALVEFEN  
IDSAKECVTFAADEPVYIAGQQAFFNYSTSKRITRPGNTDDPSGGNKVLLLSIQNPLYPI  
TVDVLYTVCNPVGKVQRIVIFKRNGIQAMVEFESVLCQAQAKAALNGADIYAGCCTLKIE  
YARPTRLNVRNDNSWDYTKPYLGRRDRGKGRQRQAILGEHPSSFRHDGYGSHGPLLPL  
PSRYRMGSRDTPELVAYPLPQASSYMHGGNPSGSVVMVSLHQLKMNC SRVFNLFCLYG  
NIEKVKFMKTIPGTALVEMGDEYAVERA VTHLNNVKLFGKRLNVCVSKQHSVPSQIFEL  
EDGTSSYKDFAMSKNNRFTSAGQASKNIIQPPSCVLHYYNVPLCVTEETFTKLCNDHEVL  
TFIKYKVFDAKPSAKTSLGLEWECKTDAVEALTALNHYQIRVPNGSNPYTLKLCFSTSS  
HL

>sp|P07910|HNRPC\_HUMAN Heterogeneous nuclear ribonucleoproteins C1/C2 OS=Homo sapiens  
GN=HNRNPC PE=1 SV=4

MASVNTNKTDPRSMNSRVFIGNLNTLVVKKSDVEAIFSKYKIVGCSVHKGFVQYVNE  
RNARAAVAGEDGRMIAGQVLDINLAAEPKVNRRGAGVKRSAAEMYGSVTEHPSPSPLLSS  
SFDLDYDFQRDYDRMYSYPARVPPPPPIARAVVPSKRQRVSGNTSRRGKSGFNSKSGQR  
GSSKSGKLKDDLQAIKKELTQIKQKVDLSLENLEKIEKEQSKQAVEMKNDKSEEEQSSS  
SVKKDET NVKMESEGGADDSAEEGDLLDDDDNEDRGDDQLELIKDDEKEAEEGEDDRDSA  
NGEDDS



>sp|P52597|HNRPF\_HUMAN Heterogeneous nuclear ribonucleoprotein F OS=Homo sapiens  
GN=HNRNPF PE=1 SV=3

MMLGPEGGEGFVVKLRGLPWSCSVEDVQNFLSDCTIHDGAAGVHFIYTREGRQSGEAFVE  
LGSEDDVKMALKKDRESMGHRYIEVFKSHRTEMDWVLKHSGPNSADSANDGFVRLRGLPF  
GCTKEEIVQFFSGLIIVPNGITLPVDPEGKITGEAFVQFASQELAEKALGKHKERIGHRY  
IEVFKSSQEEVRSYSDPPLKFMSVQRPGPYDRPGTARRYIGIVKQAGLERMRPGAYSTGY  
GGYEEYSGLSDGYGFTTDLFGRDLSYCLSGMYDHRYGDSEFTVQSTTGHCVHMRGLPYKA  
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEEAVAAMSKDRANMQHRYIELF  
LNSTTGASNGAYSSQVMQGMGVSAQAATYSGLSESQSVSGCYGAGYSGQNSMGGYD

>sp|P61978|HNRPK\_HUMAN Heterogeneous nuclear ribonucleoprotein K OS=Homo sapiens  
GN=HNRNPK PE=1 SV=1

METEQPEETFPNTETNGEFGKRAPAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGK  
GGKNIKALRTDYNASVSPDSSGPERILSISADIETIGEILKKIIPITLEEGLQLPSPTAT  
SQLPLESDAVECLNYQHYKGSDFDCELRLLIHQSLAGGIIGVKGAKIKELRENTQTTIKL  
FQECCPHSTDRVVLIGGKPDRVVECIKIILDLISESPIKGRAQPYDPNFYDETYDYGFT  
MMFDDRRGRPVGFPMRGRGGFDRMPPGRGGRPMPPSRRDYDDMSPRRGPPPPPPGRGGRG  
GSRARNLPLPPPPPRGGDL MAYDRRGRPGDRYDGMVGFSADETWDSAIDTWPSEWQMA  
YEPQGGSGYDYSYAGGRGSYDGLGGPIITTQVTIPKDLAGSIIGKGGQRIKQIRHESGAS  
IKIDEPLEGSEDRIITITGTQDQIQNAQYLLQNSVKQYSGKFF

>sp|O43390|HNRPR\_HUMAN Heterogeneous nuclear ribonucleoprotein R OS=Homo sapiens  
GN=HNRNPR PE=1 SV=1

MANQVNGNAVQLKEEEPMDTSSVTHTEHYKTLIEAGLPQKVAERLDEIFQTGLVAYVDL  
DERAIDALREFNEEGALSVLQQFKESDLSHVQNKSAFLCGVMKTYRQREKQGSKVQUESTK  
GPDEAKIKALLERTGYTLDDTTGQRKYGGPPPSVYSGVQPGIGTEVFVGKIPRDLYEDE  
LVPLFEKAGPIWDLRLMMDPLSGQNRGYAFITFCGKEAAQEAVKLCDSEYIRPGKHLGVC  
ISVANNRLFVGSIPKNKTKENILEEFSKVTEGLVDVILYHQPDDKKKNRGFCFLEYEDHK  
SAAQARRRLMSGKVKVWGNVTVWEADPVEEPDPEVMAKVVLVFRNLATTVTTEEILEKS  
FSEFGKLERVKKLKDYAFVHFEDRGA AVKAMDEMNGKEIEGEEIEIVLAKPPDKRKERQ  
AARQASRSTAYEDYYYHPPPRMPPP I RGRGRGGGRGGYGYPDYGYEDYYDDYYGYDYH  
DYRGGYEDPYYGYDDGYAVRGRGGGRGGRGAPPPRGRGAPPPRGRAGYSQRGAPLGPPR  
GSRGGRGGPAQQQRGRGSRGSRGNRGGNVGGKRAKADGYNQPD SKRRQTNNQQNWGSQPIA  
QQPLQQGGDYSGNYGYNNDNQEFYQD TYGQQWK

>sp|Q86YM7|HOMER1\_HUMAN Homer protein homolog 1 OS=Homo sapiens GN=HOMER1 PE=1 SV=2

MGEQPIFSTRAHVFQIDPNTKKNWVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINST  
ITPNMTFTKTSQKFGQWADSRANTVYGLGFSSEHLSKFAEKQEFKEAARLAKEKSQEK  
MELTSTPSQESAGGDLQSPLTPESINGTDDERTPDVTQNSEPRAEPTQNALPFSHSAIS  
KHWEAELATLKGNNAKLTAALLESTANVKQWKQQLAAYQEEAERLHKRVTELECVSSQAN  
AVHTHKTELNQTIQELEETLKLKEEEIERLKQEI DNARELQEQRDSL TQKLQEVEIRNKD  
LEGQLSDLEQRLEKSQNEQEA FRNNLKTLL EILDGKIFEL TELRDNLAKLLECS

>sp|Q9NSB8|HOMER2\_HUMAN Homer protein homolog 2 OS=Homo sapiens GN=HOMER2 PE=1 SV=1

MGEQPIFTTRAHVFQIDPNTKKNWMPASKQAVTVSYFYDVTRNSYRIISVDGAKVIINST  
ITPNMTFTKTSQKFGQWADSRANTVFGFGFSSEQLTKFAEKQEVKEAAKIAKDKTQEK  
IETSSNHSQESGRETPSSTQASSVNGT DDEKASHAGPANTHLKSENDKLKIALTQSAANV  
KKWEIELQTLRESNARLTALQESAASVEQWKRQFSICRDENDRLRNKIDELEEQCSEIN

REKEKNTQLKRRIEELEAELREKETELKDLRKQSEIIPQLMSECEYVSEKLEAAERDNQN  
LEDKVRSLKTDIEESKYRQRHLKVELKSFLEVLDGKIDDLHDFRRGLSKLGTDN

>sp|Q86VS8|HOOK3\_HUMAN Protein Hook homolog 3 OS=Homo sapiens GN=HOOK3 PE=1 SV=2

MFSVESLERAELCESLLTWIQTFNVDAPCQTVEDLTNGVVMAQVLQKIDPAYFDENWLNRIKTEVGDNWRLKISNLKKILKGILDYNHEILGQQINDFTLPDVNLIGEHSDAELGRMLQLILGCAVNCEQKQEYIQAIMMMEESVQHVVMTAIQELMSKESPVSAAGNDAYVDLDRQLKKTTEELNEALSAKEEIAQRCHELDMQVAALQEEKSLLAENQVLMERLNQSDSIEDPNSPA  
GRRHLQLQTQLEQLQEETFRLEAAKDDYRIRCEELEKEISELRQQNDELTTLADEAQLKDEIDVLRHSSDKVSKLEGQVESYKKKLEDLGDLLRRQVKLEEKNTMYMQNTVSLEEELRKANAARSQLETYKRQVVELQNRLEESKKADKLDFFEYKRLKEKVDSLQKEKDRLRTERDSLKETIEELRCVQAQEGQLTTQGLMPLGSQESSDSLAAEIVTPEIREKLIRLQHENKMLKLNQEGSDNEKIALQLSLDDANLRKNELETENRLVNQRLLEVQSQVEELQKSLQDQGSKAEDSVLLKKKLEEHLEKLHEANNELQKKRAIIEDLEPRFNSSLKIEELQEALRKKEEEMKQMEERYKKYLEKAKSVIRTLDPKQNGGAPEIQALKNLQERDRLFHSLEKEYEKTQKSQREMEEKYIVSAWYNMGMTLHKKAAEDRLASTGSGQSFLARQRQATSSRRSYPGHVQPATAR

>sp|Q9P2W1|HOP2\_HUMAN Homologous-pairing protein 2 homolog OS=Homo sapiens GN=PSMC3IP  
PE=1 SV=1

MSKGRAEAAAGAAGILLRYLQEQNRPYSSQDVFGNLQREHGLGKAVVVKLTLEQLAQQGIKEKMYGKQKIYFADQDQFDMVSDADLQVLDGKIVALTAQVQSLQQSCRYMEAELELSSALLTTPEMQKEIQELKKECAGYRERLKNIKAATNHVTPEEKEQVYRERQKYCKEWRKRKRMA  
TELSDAILEGYPKSKKQFFEEVGIETDEDYNVTLPDP

>sp|Q8IWW8|HOT\_HUMAN Hydroxyacid-oxoacid transhydrogenase, mitochondrial OS=Homo sapiens  
GN=ADHFE1 PE=1 SV=1

MAAAARARVAYLLRQLQRAACQCPTHSTYSQAPGLSPSGKTTDYAFEMAVSNIRYGAAV  
TKEVGMDLKNMGAKNVCLMTDKNSKLPPVQVAMDSLKNGIPFTVYDNRVPTDSSFM  
EAIEFAQKGAFDAYVAVGGGSTMDTCKAANLYASSPHSDFLDYVSAPIGKGKPVSVPLKPLIAVPTTSGTGSETTGVAIFDYEHLKVKIGITSRAIKPTLGLIDPLHLHMPARVVANS  
FDVLCHALESYTTLPYHLRSPCPSPNITRPAYQGSNPISDIWAHALRIVAKYLKRAVRNPDDLEARSHMHLASAFAGIFGNAGVHLCHGMSYPISGLVKMYKAKDYNVDHPLVPHGLSVVLTSPAVFTFTAQMFPERHLEMAEILGADTRTARIQDAGLVLADTLRKFLFDLDVDDGL  
AAVGYSKADIPALVKGTLPQERVTKLAPCPQSEEDLAALFEASMKLY

>sp|Q7LGA3|HS2ST\_HUMAN Heparan sulfate 2-O-sulfotransferase 1 OS=Homo sapiens GN=HS2ST1  
PE=1 SV=1

MGLLRIMPPKLQLLAVVAFVAVMLFLENQIQKLEESRSKLERAIARHEVREIEQRHTMD  
GPRQDATLDEEEDMVIYINRVPKTASTSFTNIAYDLCAKNKYHVLHINTTKNNPVMQLDQVRFVKNITSWKEMKPGFYHGHVSYLDFAKFGVKKKPIYINVIDPIERLVSYYYFLRFG  
DDYRPGRLRRRKQGDKKTDFECVAEGGSDCAPEKLWLQIPFFCGHSSECWNVGSRWAMDQAKYNLINEYFLVGVTEELEDIFIMLEAALPRFFRGATELYRTGKSKSHLRKTTEKKLPKQT  
IAKLQSQSDIWKMEFYEFALEQFQFIRAHAVREKDGDLILAQNFFYEKIYPKSN

>sp|O14792|HS3ST1\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 1 OS=Homo sapiens  
GN=HS3ST1 PE=1 SV=1

MAALLGAVLLVAQQLVPSRPAELGQQLLRKAGTLQDDVRDGVAPNGSAQQLPQTIIIGVRKGGTRALLEMLSLHPDVAAAENEVHFFDWEHSHGLGWYLSQMPFSWPHQLTVEKTPAYFTSPKVPERVYSMNPSIRLLLILRDPSEVLSDYTQVFYNHMQKHKPYPSIEEFLVR

DGRLNVDYKALNRSLYHVHMQNWLRFPLRHHIIVDGDRLIRDPFPEIQKVERFLKLS PQ  
INASNIFYFNKTKGFYCLRDSGRDRCLHESKGRAHPQVDPKLLNKLHEYFHEPNKKFFELV  
GRTFDWH

>sp|Q9Y278|HS3S2\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 2 OS=Homo sapiens  
GN=HS3ST2 PE=1 SV=1

MAYRVLGRAGPPQPRRARRLLFAFTLSLSCTYLCYSFLCCDDLGRSRLLGAPRCLRGPS  
AGGQKLLQKSRPCDPSGPTPSEPSAPSAPAAVAPRLSGSNHSGSPKLGTKRLPQALIV  
GVKKGTRAVLEFIRVHPDVRLGTEPHFFDRNYGRGLDWYRSLMPRTLESQITLEKTPS  
YFVTQEAPRRIFNMSRDTKLIVVVRNPVTRAISDYTQTLSSKPDIPTEGLSFRNRTLGL  
VDVSWNAIRIGMYVLHLESWLQYFPLAQIHVSGERLITDPAGEMGRVQDFLGIKRFITD  
KHFYFNKTKGFPCLKKTESLLPRCLGKSKGRTHVQIDPEVIDQLREFYRPYNIKFYETV  
GQDFRWE

>sp|Q9Y661|HS3S4\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 4 OS=Homo sapiens  
GN=HS3ST4 PE=2 SV=3

MARWPAPPPPPPPPLAAPPPPGASAKGPPARKLLFMCTLSLSVTYLCYSLLGGSGSLQ  
FPLALQESPGAAAEPPSPPPPSLLPTPVRLGAPSQPPAPPPLDNASHGEPPEPPEQPAA  
PGTDGWGLPSGGGAQDAWLRTPLAPSEMITAQSALPEREAQESSTDEDLARRAANGS  
SERGGAVSTPDYGEKKLPQALIIGVKKGGTRALLEAIRVHPDVRAVGVEPHFFDRNYEKG  
LEWYRNVMPKTLDGQITMEKTPSYFVTNEAPKRIHSMADIKLIVVVRNPVTRAISDYTQ  
TLSSKPEIPTFEVLAFAKNRTLGLIDASWSAIRIGIYALHLENWLQYFPLSQILFVSGERL  
IVDPAGEMAKVQDFLGLKRVVTEKHFYFNKTKGFPCLKKPEDSSAPRCLGKSKGRTHPRI  
DPDVIHRLRKFKPFNLMTFYQMTGQDFQWEQEEGDK

>sp|Q96QI5|HS3S6\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 6 OS=Homo sapiens  
GN=HS3ST6 PE=1 SV=2

MAGSGGLGGGAGGGGAGAGQGAALRASRAPMLLVALVLGAYCLCALPGRCPPAAPAPAP  
APAPSEPSSSVHRPGAPGLPLASGPGRRRFPQALIVGVKKGGTRALLEFLRLHPDVRLG  
SEPHFFDRCYERGLAWYRSLMPRTLDGQITMEKTPSYFVTREAPRRIHAMSPDTKLIVVV  
RNPVTRAISDYAQTLSKTPGLPSFRALAFRHGLGPVDTAWSAVRIGLYAQHLDHWLRYFP  
LSHFLFVSGERLVSDPAGEVGRVQDFLGLKRVVTDKHFYFNATKGFPCLKKAQGGSRPRC  
LGKSKGRPHRPVQALVRRRLQEFYRPFNRRFYQMTGQDFGWG

>sp|Q9Y662|HS3SB\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 3B1 OS=Homo sapiens  
GN=HS3ST3B1 PE=1 SV=1

MGQRLSGGRSCLDVPGRLLPQPPPPPPVRRKLALLFAMLCVWLYMFLYSCAGSCAAAPG  
LLLLGSGSRAAHDPPALATAPDGTTPRLPFRAPPATPLASGKEMAEGAASPEEQSPEVPD  
SPSPISSEFFSGSGSKLPQAIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFFDRSYDKG  
LAWYRDLMPRTLDGQITMEKTPSYFVTREAPARISAMSKDTKLIVVVRDPVTRAISDYTQ  
TLSSKRPDIPTFESLTFKNRTAGLIDTSWSAIQIGIYAKHLEHLRHPPIRQMLFVSGERL  
ISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFPCLKKAEGSSRPHCLGKTKGRTHPEI  
DREVVRRLREFYRPFNLKFYQMTGHDFGWD

>sp|Q14568|HS902\_HUMAN Heat shock protein HSP 90-alpha A2 OS=Homo sapiens GN=HSP90AA2P  
PE=1 SV=2

MPREETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIW  
YESLTDPSKLDGSKELHINLIPNKQDQTLTIVDTGIGMTKADLINNLGTIAKSGTKAFME  
ALQAGADISMIGQFGVSFYSAVLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGERM

GRGTKVILHLKEDQTEYLEEQRIKEIVKKHSQLIGYPITLFVEKECDKEVSDDETEEKED  
KEEEEKEEEKESKDKPEIEDVGSDEEEEEKDGDKKKKKTKEYIDQEELNKTPIWTRNP  
DDITNEEYGEFCKNLTDWEDHLAVKHFSVEGQLEFRALLFVP

>sp|P08238|HS90B\_HUMAN Heat shock protein HSP 90-beta OS=Homo sapiens GN=HSP90AB1 PE=1  
SV=4

MPPEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLT  
DPSKLD SGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAG  
ADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPGRGTK  
VILHLKEDQTEYLEERRVKEVVKHSQLIGYPITLYLEKEREKEISDDEAEEEEKGEKEEE  
DKDDEEKPKIEDVGSDEEDDSGDKKKKTKKIKEKYIDQEELNKTPIWTRNPDDITQEE  
YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRV  
FIMDSCDELIPEYLNFRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELA  
EDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQ  
KSIYYITGESKEQVANSFAVERVRKRGFEVVMTEPIDEYCVQQLKEFDGKSLVSVTKEG  
LELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCIVTSTYGWTA  
NMERIMKAQALRDNSTMGYMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVLLFE  
TALLSSGFSLED PQTHSNRIYRMIKLGLGIDEDEVAEEPNAAVPDEIPPLEGDEDASRM  
EEVD

>sp|C9JCN9|HSBPL\_HUMAN Heat shock factor-binding protein 1-like protein 1 OS=Homo sapiens  
GN=HSBP1L1 PE=3 SV=2

MDVRGPEAPGGRALRDAENLFQELQEHFQALTATLNLMEEMGNRIEDLQKNVKDLMVQ  
AGIENSIKEQMLKT

>sp|Q14626|I11RA\_HUMAN Interleukin-11 receptor subunit alpha OS=Homo sapiens GN=IL11RA  
PE=1 SV=2

MSSSCSGLSRVLVAVATALVSASSPCQAWGPPGVQYGQPGRSVKLCCPGVTAGDPVSWF  
RDGEPKLLQGPDSGLGHELVLQAADSTDEGTIYCQTLDGALGGTVTLQLGYPPARPVVSC  
QAADYENFSCWSPSQISGLPTRYLTSYRKKTVLGADSQRRSPSTGPWPCPDPLGAARC  
VVHGAEFWSQYRINVTEVNPLGASTRLLDVSLQSILRPDPQQGLRVESVPGYPRRLRASW  
TYPASWPCQPHFLKFRLLQYRPAQHPAWSTVEPAGLEEVITDAVAGLPHAVRVSARDFLD  
AGTWSTWSPEAWGTPSTGTIPKEIPAWGQLHTQPEVEPQVDSAPP RP SLQPHPRLLDHR  
DSVEQVAVLASLGILSFLGLVAGALALGLWLRRLRRGGKDGSPKPGFLASVIPVDRRPGAP  
NL

>sp|Q99665|I12R2\_HUMAN Interleukin-12 receptor subunit beta-2 OS=Homo sapiens GN=IL12RB2  
PE=1 SV=1

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGCF  
HYSRRNKLILYKFDRRINFHHGHSLSNQVTGLPLGTTLFVCKLACINSDEIQICGAEIFV  
GVAPEQPQNLSCIQKGEQGTACTWERGRDTHLYTEYTLQLSGPKNLTWQKQCKDIYCDY  
LDFGINLTPESPESNFTAKVTAVNSLGSSSLPSTFTFLDIVRPLPPWDIRIKFQKASVS  
RCTLYWRDEGLVLLNRLRYRPSNSRLWNMVNVTAKGRHDLDDLKPFTEYEFQISSKLHL  
YKGSWDWSESLRAQTPEEPTGMLDVWYMKRHIDYSRQQISLFWKNLSVSEARGKILHY  
QVTLQELTGKAMTQNITGHTSWTTVIPRTGNWAVAVSAANSKGSSLPTRINIMNLCEAG  
LLAPRQVSANSEGMDNILVTWQPPRKDPSAVQEYVVEWRELHPGGDTQVPLNWLRSRPYN  
VSALISENIKSYICYEIRVYALSGDQGGCSSILGNSKHKAPLSGPHINAITEEKGSILIS  
WNSIPVQE QMGCLLHYRIYWKERDSNSQPQLCEIPYRVSQNSHPINSLQPRVTYVLWMTA

LTAAGESSHGNEREFCLQGGKANWMAFVAPSICIAIIMVGIFSTHYFQQKVFVLLAALRPQ  
WCSREIPDPANSTCAKKYPIAEEKTQLPLDRLLIDWPTPEDPEPLVISEVLHQVTPVFRH  
PPCSNWPQREKGIQGHQASEKMMHSASSPPPPRALQAESRQLVDLYKVLESRGSDPKPE  
NPACPWTVLPAAGDLPTHGGLPSNIDDLPSHEAPLADSLEELEPQHISLSVFPSSSLHPL  
TFSCGDKLTLDQLKMRCDSLML

>sp|Q6ZVW7|I17EL\_HUMAN Putative interleukin-17 receptor E-like OS=Homo sapiens GN=IL17REL  
PE=2 SV=2

MSRSVLEALTSSSTAMQCVPSDGCAMLLRVRASITLHERLRGLEACAMSLDTQETQCQSVW  
VARASHRQGGGQQLQVHFGCFAVSVAQHLVYTLRTIPHFCGVQLDQRHLVEAGKLSYVVD  
RRRKAILVQVPRASGSPDYLRCLCRFTCEDAGAPVRVTANSVSQAVFLPYSQELPCLC  
LEGWSATPDAVRIQICPFENDTEALEVLWDTVYYHPESQTLSEWAPCVSGHVSCLWRPG  
PGAGCRKLQSSQLVHRRVQYPLVDTQPQLCLKFSTSWGSWVRCPFEQRRFPTPTSRCT  
CVTGGSSHSLPANAHSRPARSLQPQVTWQPPLLLPS

>sp|Q9NRM6|I17RB\_HUMAN Interleukin-17 receptor B OS=Homo sapiens GN=IL17RB PE=1 SV=2

MSLVLSLAALCRSAVPREPTVQCGSETGPSPEWMLQHDLPGLDRDLRVEPVTTSVATG  
DYSILMNVSWSLRADASIRLLKATKICVTGKSNFQSYSCVRCNYTEAFQTQTRPSGGKWT  
FSYIGFPVELNTVYFIGAHNIPNANMNEDGPSMSVNFSTPGCLDHIMKYKKKCVKAGSLW  
DPNITACKKNEETVEVNFTTTPLGNRYMALIQHSTIIIGFSQVFEHQKKQTRASVIPVT  
GDSEGATVQLTPYFPTCGSDCIRHKGTVVLCPTQGVFPPLDNNKSKPGGWLPLLLSLLV  
ATWVLVAGIYLMWRHERIKKTSFSTTTLLPPIKVLVVYPSEICFHHTICYFTEFLQNHCR  
SEVILEKWQKKKIAEMGPVQWLATQKKAADKVFLSNDVNSVCDGTCGKSEGSPSENSQ  
DLFPLAFNLFCSDLRSQIHLHKYVVVYFREIDTKDDYNALSVC PKYHLMKDATAFCAELL  
HVKKQVSAGKRSQACHDGCCSL

>sp|Q8NAC3|I17RC\_HUMAN Interleukin-17 receptor C OS=Homo sapiens GN=IL17RC PE=1 SV=2

MPVPWFLLSLALGRSPVLSLERLVGPQDATHCSPVSLEPWGDEERLRVQFLAQQSLSLA  
PVTAATARTALSGLSGADGRREERGRGKSWVCLSLGGSGNTEPQKKGLSCLWDSILCL  
PGDIVPAPGPVLAPTHLQTELVLRCQKETDCDLCLRVAVHLAVHGHWEPEDEEKFGGAA  
DSGVVEPRNASLQAQVVLFSQAYPTARCVLLEVQVPAALVQFGQSVGSSVYDCFEAALGS  
EVRIWSYTPRYEKELNHTQQLPDCRGLEVWNSIPSCWALPWLNVSADGDNVHLVLNVSE  
EQHFGLSLYWNQVQGPPKPRWHKNTGPIITLNHTDLVPCLCIQVWPLEPDSVRTNICP  
FREDPRAHQNLWQAARLQLTLQSWLLDAPCSLPAEAALCWRAPGGDPCQPLVPPLSWEN  
VTVDKVFLEPFLKGHPLNCVQNSSEKLQLQECLWADSLGPLKDDVLLLETRGPQDNRS  
CALEPSGCTSLPSKASTRAARLGEYLLQDLQSGQCLQLWDDDLGALWACPMKYIHKRWA  
LVWLACLLFAAALSLILLKKDHAKGWLRLKQDVRSGAAARGRAALLYSADDSGFERL  
VGALASALCQLPLRVAVDLWSRRELSAQGPVAVFHAQRRQTLQEGGVVLLFSPGAVALC  
SEWLQDGVSGPGAHGPHDAFRASLSCVLPDFLQGRAPGSYVGACFDRLLHPDAVPALFRT  
VPVFTLPSQLPDFLGALQQPRAPRSGRLQERAEQVSRAALQPALDSYFHPPGTPAPGRGVG  
PGAGPGAGDGT

>sp|Q9H9L3|I20L2\_HUMAN Interferon-stimulated 20 kDa exonuclease-like 2 OS=Homo sapiens  
GN=ISG20L2 PE=1 SV=1

MSTLLLNLDFGEPPPKALEGNAKHRNFVKKRRLLERRGFLSKKNQPPSKAPKLHSEPSK  
KGETPTVDGTWKTPSFPPKKAASSNGSGQPLDKKAAVSWLTPAPSKKADSVAAKVDLLG  
EFQSALPKINSHPTRSQKKSSQKSSKNHPQKNAPQNSTQAHSNKCSCGASQKLPRKMV  
AIDCEMVGTPKGHVSSLARCSIVNYNGDVLYDEYILPPCHIVDYRTRWSGIRKQHMVNA

TPFKIARGQILKILTGKIVVGHAIHNDFKALQYFHPKSLTRDTSHIPPLNRKADCPENAT  
MSLKHLTKKLLNRDIQVGKSGHSSVEDAQATMELYKLVEVEWEEHLARNPPTD

>sp|Q9UHF4|I20RA\_HUMAN Interleukin-20 receptor subunit alpha OS=Homo sapiens GN=IL20RA  
PE=1 SV=2

MRAPGRPALRPLPLPLLLLLLAAPWGRAVPCVSGGLPKPANITFLSINMKNVLQWTPPE  
GLQGVKVITYTVQYFIYGQKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKC  
SKWAESGRFYFPLETQIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLK  
YNVSVLNTKSNRTWSQCVTNHTLVLTWLEPNTLYCVHVESFVPGPPRAQPSEKQCARTL  
KDQSSEFKAKIIFWYVLPVSITVFLFSVMGYSIYRYIHVGKEKHPANLLIYGNEFDKRF  
FVPAEKIVINFITLNISSDDSKISHQDMSLLGKSSDVSSLNDPQPSGNLRPPQEEEEVKHL  
GYASHLMEIFCDSEENTEGLTSLTQQESLSRTIPDKTVIEYEYDVRTTIDICAGPEEQELS  
LQEEVSTQGTLLSQAALAVLGPQTLQYSYTPQLQDLPLAQEHTDSEEGPEEEPSTTLV  
DWDPPQTGRLCIPSLSSFDQDSEGCEPSEGDLGEEGLLSRLYEPPAPDRPPGENETYLMQ  
FMEEWGLYQMEN

>sp|Q96BM0|I27L1\_HUMAN Interferon alpha-inducible protein 27-like protein 1 OS=Homo  
sapiens GN=IFI27L1 PE=1 SV=1

MKGESGWDSGRAAAVAVGGVAVGTVLVALSAMGFTSVGIAASSIAAKMMSTAAIANGG  
GVAAGSLVAILQSVGAAGLSVTSKVIIGGFAGTALGAWLGSPSS

>sp|B1ANH7|IBAS1\_HUMAN Putative uncharacterized protein IBA57-AS1 OS=Homo sapiens  
GN=IBA57-AS1 PE=5 SV=1

MTYPPHRAFSRSDVPYLLSSPVQWPLSLVVGDTSTRWPQPSALESDCPGSPHPCLAGL  
LGPMHPVDIPLSTALHSHKQRRLTQCVMVQSPSKQRSLYLLNKKIPHDA

>sp|P05155|IC1\_HUMAN Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2

MASRLTLLTLLLLLAGDRASSNPATSSSSQDPESLQDRGEGKVATTVISKMLFVEPIL  
EVSSLPTTNSTTNSATKITANTTDEPTTQPTTEPTTQPTIQPTTQLPTDSPTQPTTG  
SFCPGPVTLCSDLSEHSTEAVLGDALVDFSLKLYHAFSAMKKVETNMAFSPFSIASLLTQ  
VLLGAGENTKTNLESILSYPKDFTCVHQALKGFTTKGVTSSQIFHSPDLAIRDTFVNAS  
RTLYSSSPRVLSNNSDANLELINTWVAKNTNNKISRLLDSLPSDTRLVLLNAIYLSAKWK  
TTFDPKKTRMEPFHFKNVSVIKVPMNSKKYPVAHFIDQTLKAKVGQLQLSHNLSLVILVP  
QNLKHRLEDMEQALSPSVFKAIMEKLEMSKFQPTLLTLPRIKVTTSQDMLSIMEKLEFFD  
FSYDLNLCGLTEDPDLQVSAMQHQTIVLELTETGVEAAAASISVARTLLVFEVQQPFLFV  
LWDQQHKFPVFMGRVYDPRA

>sp|P13598|ICAM2\_HUMAN Intercellular adhesion molecule 2 OS=Homo sapiens GN=ICAM2 PE=1  
SV=2

MSSFGYRTLTVALTICCPGSDEKVFVHVRPKKLAVEPKGSLEVNCSTTCNQPEVGGL  
ETSLDKILLDEQAQWKHYLVSNISHDTVLCCHFTCSGKQESMNSNVSVYQPPRQVILTLQ  
PTLVAVGKSFTIECRVPTVEPLDSLTLFLFRGNETHYETFGKAAPAPQEATATFNSTAD  
REDGHRNFSCLAVLDLMSRGGNIFHKHSAPKMLEIYEPVSDSQMVIIIVTVSVLLSLFVT  
SVLLCFIFGQHLRQQRMGTYGVRAAWRRLPQAFRP

>sp|Q8WWN9|ICEF1\_HUMAN Interactor protein for cytohesin exchange factors 1 OS=Homo sapiens  
GN=IPCEF1 PE=1 SV=1

MTSYMAIDGSALVPLRQKPRRKQTGFLTMSRRRISCKDLGHADCQGWLYKKKEKGSFLSN  
KWKKFVWILKGSSLYWYSNQMAEKADGFVNLPDFTVERASECKKKHAFKISHPQIKTFYF  
AAENVQEMNVWLNKLGSAVIHQESTTKDEECYSESEQEDPEIAAETPPPPHASQTQSLTA

QQASSSSPSLSGTSYSFSSLENTVKTSSFPSSLSKERQSLPDTVNSLSAAEDEGQPITF  
AVQVHSPVPSEAGIHKALENSFVTSESGFLNSLSSDDTSSLSSNHDHLTVPDKPAGSKIM  
DKEETKVSSEDEMEKLYKSLEQASLSPLGDRRPSTKKELRKSFKRCKNPSINEKLHKIR  
TLNSTLKCKEHLAMINQLLDDPKLTARKYREWKMNTLLIQDIYQQQRASPAPDDTDDT  
PQELKKSPSSPSVENSI

>sp|Q9UPZ9|ICK\_HUMAN Serine/threonine-protein kinase ICK OS=Homo sapiens GN=ICK PE=1 SV=1  
MNRYTTIRQLGDGTGYGVLLGRSIESGELIAIKMKRKFYSWEECMNLREVKSLKKLNHA  
NVVKLKEVIRENDHLYFIFEYMKENLYQLIKERNKLPESAIRNIMYQILQGLAFIHKHG  
FFHRDLKPENLLCMGPVLKVIADFGLAREIRSKPPYTDYVSTRWYRAPEVLLRSTNYSSP  
IDVWAVGCIMADEVYTLRPLFPGASEIDTIFKICQVLGTPKKTDWPEGYQLSSAMNFRWPQ  
CVPNNLKTLPNASSEAVQLLRDMLQWDPKKRPTASQALRYPYFQVGHPLGSTTQNLQDS  
EKPQKGILEKAGPPPYIKPVPPAQPPAKPHTRISSRQHQSQPPLHLTPYKAEVSRTDH  
PSHLQEDKPSPLLFP SLHNKHPQSKITAGLEHKNGEIKPKSRRRWGLISRSTKDSDDWAD  
LDDLD FSPSLSRIDLKNKRQSDDTLCRFESVLDLKPSEPVTGNSAPTQTSYQRRDTPT  
LRSAAKQHYLKHRSRYLPGISIRNGILSNPGKEFIPNPWSSSGLSGKSSGTMSVISKVNS  
VGSSSTSSSGLTGNVPSFLKKEIGSAMQRVHLAPIPDPSPGYSSLKAMRPHPGRPFFHT  
QPRSTPGLIPRPAAQPVHGRTDWASKYASRR

>sp|O60725|ICMT\_HUMAN Protein-S-isoprenylcysteine O-methyltransferase OS=Homo sapiens  
GN=ICMT PE=1 SV=1  
MAGCAARAPPGEARLSLATFLLGASVLALPLLTRAGLQGR TGLALYVAGLNALLLLLYR  
PPRYQIAIRACFLGFVFGCGTLLSFSQSSWSHFGWYMCSSLFHYSEYLVAVNNPKSLS  
LDSFLLNHSLEYTVAALSSWLEFTLENIFWPELKQITWLSVTGLLMVVFGECLRKAAMFT  
AGSNFNHVQNEKSDTHTLVTSGVYAWFRHPSYVGWFYWSIGTQVMCNPICGVSYALT  
VWRFRDRTEEEEISLIHFFGEEYLEYKKRVPTGLPFIKGVKVDL

>sp|Q9UPZ3|HPS5\_HUMAN Hermansky-Pudlak syndrome 5 protein OS=Homo sapiens GN=HPS5 PE=1  
SV=2  
MAFVPVIPESYSHVLAEFESLDPLLSALRLDSSRLKCTSIASRKWLALGSSGGGLHLIQ  
KEGWKHLRFLSHREGAISQVACCLHDDDYAVATSQGLVVWELNQERRGKPEQMYVSSE  
HKGRRVTALCWDTAILRVFVGDHAGKVSAILKNTSKQAKAAAAFVMFPVQTITTVDS CVV  
QLDYLDGRLLISSLTRSFLCDTEREKFWKIGNKERDGEYGACFFPGRCSGGQQPLIYCAR  
PGSRMWEVNFDEGEVISTHQFKLLSLPPLPVITLRSEPQYDHTAGSSQSLSFPKLLHLSE  
HCVL TWTERGIYIFIPQNVQVLLWSEVKDIQDVAVCRNELFCLHLNGKVSHLSLISVERC  
VERLLRRGLWNLAARTCCLFQNSVIASRARKTLTADKLEHLKSQLDHGTYN DLISQLEEL  
ILKFEPLDSACSSRRSSISSHESFSILDSGIYRIISSRRGSQSDSCSLHSQTLSEDER  
FKEFTSQQEEDLPDCCGSHGNEDNVSHAPVMFETDKNETFLPFGIPLPFRSPSPLVSLQ  
AVKESVSSFVRKTTEKIGTLHTSPDLKVRPELRGDEQSCEEDVSSDTCPEEDTEEEKEV  
TSPPPEEDRFQELKVATAEAMTKLQDPLVLFESESLRMVLQEWLSHLEKTFAMKDFSGVS  
DTDSSMKLNQDVLLVNESKKGILDEDNEKEKRDSLGNESVDKTACECVRSPRESLDDL  
FQICSPCAIASGLRNDLAELTTLCLELNVLSKIKSTSGHVDHTLQQYSPEILACQFLKK  
YFFLLNLKRAKESIKLSYNSPSVWDTFIEGLKEMASSNPVYMEMEKGDLPTRLKLLDDE  
VPFDSPLL VVYATRLEYKFGESALRSLIKFFPSILPSDIIQLCHHHPAEFLAYLDSL VKS  
RPEDQRSSFLESLLQPESLRDLWLLAVSLDAPPSTSTMDDEGYPRPHSHLLSWGYSQLI  
LHLIKLPADFITKEKMTDICRSCGFWPGYLILCLELERRREAFTNIVYLNDSLMEGDNG  
WIPETVEEWKLLHLIQSKSTRAPQESLNGSLSDGPSPINVENVALLAKAMGP DRAWS

LLQECGLALELSEKFTRTCDILRIAIEKRQRALIQSMLEKCDRFLWSQQA

>sp|Q16082|HSPB2\_HUMAN Heat shock protein beta-2 OS=Homo sapiens GN=HSPB2 PE=1 SV=2

MSGRSVPHAHPATAEYEFANPSRLGEQRFGEGLLPEEILTPITYHGYVVRPRAAPAGEGS  
RAGASELRLSEGKFQAFLDVSHFTPDDEVTVRTVDNLLEVSARHPQRLDRHGFVSREFCRT  
YVLPADVDPWRVRAALSHDGILNLEAPRGGRHLDTEVNEVYISLLPAPPDPEEEEEAAIV  
EP

>sp|Q86XA9|HTR5A\_HUMAN HEAT repeat-containing protein 5A OS=Homo sapiens GN=HEATR5A PE=1  
SV=2

MELAHSLLLNEEAYNQLGEVQKAEFIFEWLRYLEKLLLATSRNDVREKQKTLVEQLLSLL  
NSSPGPPTRKLLAKNLAILYSIGDTFSVHEAIDKCNDLIRSKDDSPSYLPTKLAADVCLG  
SLYKKLGRILGNTFTDTVGNIKAMKSAESQGRIEIMLSLQNILNGLGAAAAPCHRDVYK  
AARSCLTDRSMAVRCAAANKNEAIFMWSTDLDSVATLCFKSFEGSNYDVRISVSKLLGIIL  
AKAVISKHPGTAASRQSIRRVSLLEEVLELLGTGFLRGSSGFLRASGDMKGTSSVSRDVR  
VGVTQAYVVFVSTLGGAWLEKNFAAFFSHILSLASPSHPKATQTQIDAVCCRRCVSFILR  
TTIGLLGEKAQLAAVKDICAIVKLKKVMDAVMSDGNLETRLGSTDVAASQHMLVCALQ  
ELGNLIHNLGTTAAPLLQDSSGLLDSILSVILHPSISVRLAAAWCLHCLIAVALPSYLT  
LLDRCLERLTGHKSSPEAVTGFSFAVAALLGAVKHCPGLIPHGKGKIIMTLAEDLLCSAA  
QNSRLSAQRTQAGWLLISALMTLGPVAVSHHLARVLLLWKCVPASPDKLETEKSRGDSF  
TWQVTLEGRAGALCAIKSFVSHCGDLLTEEVTRQLLPPLCAVDLLTQLSSILKMYGSPL  
KTPSVVYRQRLYELLILLPPETIEGNLCAILRELAADLTAPDIQVAASTFLLPPLCHQDD  
LLILSPFLQETDHRFIEEQLLNGNVACGSLEYDPYSIYEKDVEGDSVPKPLPPALSVIS  
SASKLFGVVCAHVGETQRLILEQLLDSIKHTKGARQQVQLHVVSSVSSFLKYVAGSKG  
CLGPEEMKRFALTLVMGALESPNLLRCAAESWARLAQVDDGAFTAGLAQVSFDKLKS  
ARDVVTRTGHSALGSLHRYLGGISSQHLNSCIGILYTLAQDSTSPDVQTWALHSLSLI  
IDSAGPLYVYHVEPTLSLIIMLLNVPPTHAEVHQSLGRCLNALITTLGPELQGNSTIS  
TLRTSCLLGCAVMQDNPCLVQAQAIISCLQLHMFAPRHVNLSSLVSCLCVNLCSPYLLL  
RRAVLACLRQLVQREAAEVSEHAVMLAKDSREELTPDANIREVGLEGALLILLDKETDER  
LCHDIKETLNYMLTSMAVEKLSLWLKCKDVLAAADFTAVTCVDTMQEEEGDKGDDASV  
LTTRDEKSHPTNPRWATRVFAAECVCRIINQCENANSAHFDIALAQEMKKRDSRNDFL  
VLHLADLIRMAFMAATDHSQRLRLSGLEMLLVVIRRFATVPEPEFPGHVILEQYQANVGA  
ALRPAFTSETPPDVTAKACQVCSAWIASGVVSDNLNLRVHQLLVSSLTKIQAGKEALSH  
LYNESASTMEILAVLKAWAEVYIIAVQRHKNHRQPLKTTTCLEDGIRNGSCSSDGLLDLV  
YADLGTL SRLWLAALQDFALLTLPSEFASQLPAEGGAFYTAETSENAKLHYNSWALILH  
ATALWLTSTGFVADPDGASNLSRPVTPSMCQSSSGATIKSPEDVYTDRFHLILGIS  
VEFLCSLRSDATMESITACLHALQALLDVPWPRSKIGSDQDLGIELLNVLHRVILTRESP  
SIQLASLEVVRQIICAAQEHVKEKRRSAEVDGAAEKETLPEFGEGKDTGGLVPGKSLVF  
ATLELCVCILVRQPELNPKLTGSPGVKATKPQILLEDGSRVSAALVILSELPVCSPE  
GSISILPTILYLTIGVLRETAVKLPGGQLSSTVAASLQALKGILSSPMARAEKSRTAWTD  
LLRSALTTILDCWDPVDETHQELDEVSLTITVFIILSTSPEVTTIPCLQKRCIDKFKAT  
LEIKDPVVQIKTYQLLHSIFQYPNPAVSYPYIYSLASCIMEKLQEIDKRKPENTAELEIF  
QEGIKVLETLVTVAEEHHRAQLVACLLPILISFLLDENSLSGATSIMRNLHDFALQNLQM  
IGPQYSSVFKSLVASSPALKARLEAAIKGNQESVKVKIPTSKYTKSPGKNSSIQLKTSFL

>sp|Q8NH5|HUS1B\_HUMAN Checkpoint protein HUS1B OS=Homo sapiens GN=HUS1B PE=1 SV=2

MKFRAKITGKGCLLEFIHVSQTVARLAKVCVLRVRPDSLFCGPAGSGGLHEARLWCEVRQ



GAFQQFRMEGVSEDLDEIHLELTAEHLSRAARSAAGASSLKLQLTHKRRPSLTVAVELVS  
SLGRARSVVHDLPRVRLPRRVWRDCLPPSLRASDASIRLPRWRTLRSIVERMANVGSHVL  
VEANLSGRMTLSIETEVVSIQSYFKNLGNPPQSAVGVPENRDLESMVQVRVDNRKLLQFL  
EGQQIHPTTALCNIWDNTLLQLVLVQEDVSLQYFIPAL

>sp|Q7Z6Z7|HUWE1\_HUMAN E3 ubiquitin-protein ligase HUWE1 OS=Homo sapiens GN=HUWE1 PE=1  
SV=3

MKVDRTKLKKTPTTEAPADCRALIDKLKVCNDEQLLLELQIKTNIGKCELYHWVDLLDR  
FDGILADAGQTVENMSWMLVCDRPEREQLKMLLLAVLNFTALLIEYSFSRHLVSSIEHLT  
TLLASSDMQVVLAVLNLLVYFSKRSNYITRLGSDKRTPLLTRLQHLAESWGGKENGFGLA  
ECCRD LHMMKYPPSATTLHFEFYADPGA EVKIEKRTTSNTLHYIHIEQLDKISESPSEIM  
ESLTKMYSIPKDKQMLLFTHIRLAHGFSNHRKRLQAVQARLHAISILVYSNALQESANSI  
LYNGLIEELVDVLQITDKQLMEIKAASLRTLTSIVHLERTPKLSSIIDCTGTASYHGFLP  
VLVRNCIQAMIDPSMDPYPHQFATALFSFLYHLASYDAGGEALVSCGMMEALLKVIKFLG  
DEQDQITFVTRAVRVVDLITNLDMAAFQSHSGLSIFIYRLEHEVDLCRKECPFVIKPKIQ  
RPNTTQEGEEMETMDGVQCIPQRAALLKSMLNFLKKAIQDPAFSDGIRHVMDGSLPTSL  
KHIIISNAEYYGPSLFLATEVTVFVFQEPSLLSSLQDNGLTDVMLHALLIKDVPATREV  
LGSLPNVFSALCLNARGLQSFVQCQPFERLFKVLLSPDYLPAMRRRRSSDPLGDTASNLG  
SAVDELMRHQPTLKTDTATTAI IKLEEICNLGRDPKYICQKPSIQKADGTATAPPPRSNH  
AAEEASSEDEEEEEEVQAMQSFNSTQQNETEPNQVVGTEERIP IPLMDYILNMKFVESI  
LSNNTD DHCQEFVNQKGLLPLVTILGLPNLPIDFPTSAACQAVAGVCKSILTLSHEPKV  
LQEGLLQLDSILSSLEPLHRPIESPGGSVLLRELACAGNVADATLSAQATPLLHALTAAH  
AYIMMFVHTCRVGQSEIRSISVNQWGSQGLSVLSKLSQLYCSLVWESTVLLSLCTPNSL  
PSGCEFGQADMQKLVPKDEKAGTTQGGKRS DGEQDGAAGSMDASTQGLLEGIGLDGDTLA  
PMETDEPTASDSKGSKITPAMAARIKQIKPLLSASSRLGRALAEFGLLVKLCV GSPVR  
QRRSHHAAS TTTAPT PAARSTASALT KLLTKGLSWQPPPYTPTPRFRLTFFICSVGFTSP  
MLFDERKYPYHMLMKQFLCSGGHNALFETFNWALSMGGKVPVSEGLEHSDLPDGTGEFLD  
AWLMLVEKMVNPTTVLESPHSLPAKLPGGVQNFQFSALRFLVVTQKAAFTCIKNLWNRK  
PLKVYGGRMAESMLAILCHILRGEPVIRERLSKEKEGSRGEEDTGQEEGGSRRREPQVNQQ  
QLQQLMDMGFTREHAMEALLNTSTMEQATEYLLTHPPPIMGGVVRDLSMSEEDQMMRAIA  
MSLGQDIPMDQRAESPEEVACRKEEEEERKAREKQEEEEAKCLEKFQDADPLEQDELHTFT  
DTMLPGCFHLLDEL PDTVYRVCDLIMTAIKRNGADYRDMILKQVVNQVWEAADVL IKAAL  
PLTTS DTKTVSEWISQMATLPQASNLATRI LLLTLLFEELKLPCAWVVESSGILNVL IKL  
LEV VQPCLQA AKEQKEVQTPKWITPVLLLIDFYEKTAISSKRRAQMTKYLQSNSNNWRWF  
DDRSGRWCSYSASNSTIDSAWKSGETSVRFTAGRRRYTVQFTTMVQVNEETGNRRPVML  
TLLRVPRLNKSNKNSNGQELEKTLEESKEMDIKRKENKGN DTPALESTNTEKETSLEET  
KIGE ILIQGLTEDMVTVLIRACVSMLGVPVDPDTLHATLRLCLRLTRDHKYAMMF AELKS  
TRMILNLTQSSGFNGFTPLVTLLLRHIIEDPCTLRHTMEKVVRSAATSGAGSTTSGVVSG  
SLGSREINYILRVLGPAACRNPDIFTEVANCCIRIALPAPRSGTASDDEFENLRIKGN  
AVQLVKTTP LKPSPLPVIPDTIKEVIYDMLNALAAYHAPEEADKSDPKPGVMTQEVGQLL  
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LIKEDCSVLAFVLDHLLPHTQNAEDKDTPALARLFLASLAAAGSGTDAQVALVNEVKAAL  
GRALAMAESTEKHARLQAVMCIISTIMESCPSTSSFYSSATAKTQHNGMNNIIRLFLKKG  
LVNDLARVPHSLDLSSPNMANTVNAALKPLETLSRIVNQPSLFGSKSASSKNKSEQDAQ

GASQDSSSNQDPGEPGEAEVQEEDHDVTQTEVADGDI MDGEAETDSVVIAGQPEVLSSQ  
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EDSMNILDPEDEEHTEQEDSSGSNEDEDDSQDEEEEEDEEDDQEDDEGEEGEDEDDDD  
DGSEMELDEDYPDMNASPLVRFERFDREDDLIIEFDNMFSSATDIPPSPGNIPTTHPLMV  
RHADHSSLTLGSGSSTTRLTQGIGRSQRTLRLTANTGHTIHVHYPGNRQPNPPLILQRL  
LGPSAAADILQLSSSLPLQSRGRARLLVGNDVHI IARSDELDDFFHDQSTATSQAGT  
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TLGTLQSSQQQPTLPTPALGEVPQELQSPAGEGGSSTQLMPVEPEELGPTRPSGEAET  
TQMELSPAPTITSLPERAEDSDALTAVSSQLEGSPMDTSSLASCTLEEAVGDTSAAGSS  
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RGILEEPLPSTSSSEEDPLAGISLPEGVDP SFLAALPDDIRREVLQNQLGIRPPTRTAPS  
TNSSAPAVVGNPGVTEVSPEFLAALPPAIQEEVLAQQRAEQQRRELAQNASSDTPMDPVT  
FIQTLPSDLRRSVLEDMEDSVLAVMPPDIAAEAQALRREQEARQRLMHERLFGHSSTSA  
LSAILRSPAFTSRLSGNRGVQYTRLAVQRGGTFQMGSSSHNRPSGSNVDTLLRLRGRLL  
LDHEALSCLLVLLFVDEPKLNTSRLHRVLRNL CYHAQTRHWVIRSLLSILQRSSESEL CI  
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FQIQRSGGRKHTEKHASGGSTVHIHPQAAPVVCRHVLDTLIQLAKVFPSHFTQQRKTETN  
CESDRERGNKACSPCSSQSSSSGICTDFWDL LVKLDNMNVS RKGKNSVKSVPV SAGGEGE  
TSPYSLEASPLGQLMNL SHPVI RRSLLTEKLLRLLSLISIALPENKVSEAQANS GSGA  
SSTTTATSTTTSTTTTAASTTPPTAPTPTSAPALVAATAISTIVVAASTTVTTPTTA  
TTTVSISPTTKGSKSPAKVSDGGSSTDFKMVSSGLTENQLQLSVEVL TSHSCSEEGLED  
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LSPDGLPEEQPQTTKLKGKMQSRFDMAENVVIVASQKRPLGGRELQLPSMSMLTSKTSTQ  
KFFLRVLQV I IQLRDDTRRANKKAKQTGRLGSSGLGSASSIQA AVRQLEAEADAI IQMVR  
EGQRARRQQQAATSESSQSEASVRREESPMDVDQPSPSAQDTQSIASD GTPQGEKEKEER  
PPELPLLSEQLSLDELWMLGECLKELEESHQHAVLVLP AVEAFFLVHATERESKPPV  
RDTRESQLAHIKDEPPPLSPAPLTPATPSSLD PFFSREPSSMHISSSLP PDTQKFLRFAE  
THRTVLNQILRQSTTHLADGPFAVLVDYIRVLD FDVKRKYFRQELERLDEGLRKEDMAVH  
VRRDHVFEDSYRELHRKSPEEMKNRLYIVFEGEEGQDAGGLLREWYMIISREMFNPMYAL  
FRTSPGDRVITYTINPSSHCPNHL SYFKFVGRIVAKAVYDNRLLECYFTRSFYKHILGKS  
VRYTDMESDYHFYQGLVYLLENDVSTLGYDLTFSTEVQEFVCEVRDLKPNGANILVTE  
ENKKEYVHLVCQMRMTGAIRKQLAAFLEGFYEIIPKRLISIFTEQELELLISGLPTIDID  
DLKSNTHEYHKYQSNSIQIQWFWRALRSFDQADRAKFLQFVTGT SKVPLQGFAALEGMNGI  
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>sp|P01742|HV169\_HUMAN Immunoglobulin heavy variable 1-69 OS=Homo sapiens GN=IGHV1-69  
PE=1 SV=2

MDWTWRFLFVVAATGVQSQVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAP  
GQGLEWMGGIIPFGTANYAQKFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCAR

>sp|AOA0B4J1V1|HV321\_HUMAN Immunoglobulin heavy variable 3-21 OS=Homo sapiens GN=IGHV3-  
21 PE=1 SV=1

MELGLRWVFLVAILEGVQCEVQLVESGGGLVKPGGSLRLSCAASGFTFSSYSMNWVRQAP  
GKGLEWVSSISSSSSYIYYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR

>sp|P01768|HV330\_HUMAN Immunoglobulin heavy variable 3-30 OS=Homo sapiens GN=IGHV3-30  
PE=1 SV=2

MEFGLSWVFLVALLRGVQCQVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAP  
KGKLEWVAVISYDGSNKYYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAK

>sp|P01767|HV353\_HUMAN Immunoglobulin heavy variable 3-53 OS=Homo sapiens GN=IGHV3-53  
PE=1 SV=2

MEFWLSWVFLVAISKGVQCEVQLVETGGGLIQPGGSLRLSCAASGFTVSSNYMSWVRQAP  
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>sp|P31270|HXA11\_HUMAN Homeobox protein Hox-A11 OS=Homo sapiens GN=HOXA11 PE=2 SV=2

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AVSSNFYSTVGRNGVLPQAFDQFFETAYGTPENLASSDYPGDKSAEKGPPAATATSAAAA  
AAATGAPATSSSDSGGGGGCRETA AAAEKKERRRRPESSSSPESSSGHTEDKAGGSSGQR  
TRKKRCPYTKYQIRELEREFFFSVYINKEKRLQLSRMLNLTDRQVKIWFQNRMRKEKKIN  
RDRLQYYSANPLL

>sp|O43364|HXA2\_HUMAN Homeobox protein Hox-A2 OS=Homo sapiens GN=HOXA2 PE=1 SV=1

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DLTERQVKVWFQNRMRKHKRQTQCKENQNSEGKCKSLEDSEKVEEDEEEKTLFEQALSVS  
GALLEREGYTFQQNALSQQQAPNGHNGDSQSFPVSPLTSNEKNLKH FQHQSPTVPNCLST  
MGQNCGAGLNND SPEALEVPSLQDFS VFSTDSCLQLSDAVSPSLPGSLDSPVDISADSLD  
FFTDLTLTIDLQHNLN

>sp|O43365|HXA3\_HUMAN Homeobox protein Hox-A3 OS=Homo sapiens GN=HOXA3 PE=1 SV=1

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PPSSASPPQNASNNPTANAAKSPLLNSPTVAKQIFPWMKESRQNTKQKTSSSSSGESCA  
GDKSPPGQASSKRARTAYTSAQLVELEKEFHFNRYLCRPRRVEMANLLN LTERQIKIWFQ  
NRRMKYKDKQKGKMLTSSGGQSPSRSPVPPGAGGYLSNMHSLVNSVPYEPQSPPPFSKP  
PQGTYGLPPASYPASLPSCAPPPPPQKRYTAAGAGAGGTPDYDPAHGLQGNGSYGTPHI  
QGSPV FVGGSYVEPMSNSGPALFGLTHLPHAASGAMDYGGAGPLGSGHHHGPGPGEPHPT  
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>sp|P17483|HXB4\_HUMAN Homeobox protein Hox-B4 OS=Homo sapiens GN=HOXB4 PE=1 SV=2

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TVQRYAACRDPGPPPPPPPPPPPPGLSPRAPAPPAGALLPEPGQRCEAVSSSPPPP  
PCAQNPLHPSPSHSACKEPVVYPWMRKVHVSTVNP NYAGGEPKRSRTAYTRQQVLELEKE  
FHYNRYLTRRRRVEIAHALCLSERQIKIWFQNRMRMKWKDKHL PNTKIRSGGAAGSAGGP  
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>sp|P31274|HXC9\_HUMAN Homeobox protein Hox-C9 OS=Homo sapiens GN=HOXC9 PE=1 SV=3

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VFSTSWAPVPSQSSVVYHPYGPQPHLGADTRYMRTWLEPLSGAVSFPSFPAGGRHYALKP  
DAYPGRRADCGPGEGRSYPDYMYGSPGELRDRAPQTLPSPEADALAGSKHKEEKADLDPS  
NPVANWIHARSTRKKRCPYTKYQTLELEKEFLFNMYLTRDRRYEVARVLN LTERQVKIWF  
QNRMRMKMKMNKEKTDKEQS

>sp|P28358|HXD10\_HUMAN Homeobox protein Hox-D10 OS=Homo sapiens GN=HOXD10 PE=1 SV=2  
MSFPNSSPAANTFLVDSLISACRSDSFYSSSASMYMPPPSADMGTYGMQTCGLLPSLAKR  
EVNHQNMGMNVHPYIPQVDSWTDPNRSCRIEQPVTQQVPTCSFTTNIKEESNCCMYSDKR  
NKLISAEVPSYQRLVPESCVENPEVPVPGYFRLSQTYATGKTQEYNNSPEGSSTVMLQL  
NPRGAAKPQLSAAQLQMEKKMNEPVSGQEPTKVSQVESPEAKGGLPEERSCLAESVSSP  
EVQEKESKEEIKSDTPTS NWLTAKSGRKKRCPYTKHQ TLELEKEFLFNMYLTRERRLEIS  
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>sp|P28356|HXD9\_HUMAN Homeobox protein Hox-D9 OS=Homo sapiens GN=HOXD9 PE=1 SV=5  
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AEFASCSFAPRSVFSASWSAVPSQPPAAAAAMSGLYHPYVPPPLAASASEPGRYVRSWM  
EPLPGFPGGAGGGGGGGGGGPGRGPSPGSPGPANGRHYGKIPETRAAPAPATAASTSSS  
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EPSACSDHPIPGCSLKEEEKQHSQPQQQLDPNNPAANWIHARSTRKKRCPYTKYQ TLEL  
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>sp|P19367|HXK1\_HUMAN Hexokinase-1 OS=Homo sapiens GN=HK1 PE=1 SV=3  
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VKMLPTFVRSIPDGSEKGFIALDLGGSSFRLRVQVNHEKNQNVHMESEVYDTPENIVH  
GSGSQLFDHVAECLGDFMEKRKIKDKKLPGFTFSFPCQQSKIDEAILITWTKRFKASGV  
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YLGELVRLILVKMAKEGLLFEGRITPELLTRGKFNTSDVSAIEKNKEGLHNAKEILTRLG  
VEPSDDDCVSVQHVCTIVSFRSANLVAATLGAILNRLRDNKGTPRLRTTVGVDGSLYKTH  
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KDM LLEVKKRMRAEMELGLRKQTHNNAVVKMLPSFVRRTPDGTENGDFLALDLGGTNFRV  
LLVKIRSGKKRTVEMHNKIYAIPIEIMQGTGEELFDHIVSCISDFLDYMGIKGPRMPLGF  
TFSFPCQQTSLDAGILITWTKGFKATDCVGHDVVTLRLDAIKRREEFDLDVVAVVNDTVG  
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IFETKFLSQIESDRLALLQVRAILQQGLNSTCDD SILVKTVCVVSRRAAQLCGAGMAA  
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>sp|P52789|HXK2\_HUMAN Hexokinase-2 OS=Homo sapiens GN=HK2 PE=1 SV=2  
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VKMLPTFVRSTPDGTEHGEFLALDLGGTNFRVLWVKVTDNGLQKVEMENQIYAIPEDIMR  
GSGTQLFDHIAECLANFMDKLQIKDKKLPLGFTFSFPCHQTKLDESFLVSWTKGFKSSGV  
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EMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQEIDMGS LNPGKQLFEKMISGM  
YMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDIEGEKDGIRKAREVLMRLG  
LDPTQEDCVATHRICQIVSTRSASLCAATLAAVLQRIKENKGEERLRSTIGVDGSVYKKH  
PHFAKRLHKTVRRLVPGCDVRFLRSEDGSGKAAMVTAVAYRLADQHRARQKTLEHLQLS  
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LLVRVRNGKWGGVEMHNKIYAIPQEVMHGTGDELDHIVQCIADFLEYMGMGVSLPLGF  
TFSFPCQQNSLDESILLKWTGFKASGCEGEDVVTLLEAIIHREEFDLDVVAVVNDTVG  
TMMTCGFEDPHCEVGLIVGTGSNACYMEEMRNVELVEGEEGRMCVNMEWGAFGDNGCLDD

FRTEFDVADELSTLNPQKRFKEMISGMYLGEIVRNILIDFTKRGLLFRGRISERLKTRG  
IFETKFLSQIESDCLALLQVRAILQHLGLESTCDDSIIVKEVCTVVARAAQLCGAGMAA  
VVDRIRENRGLDALKVTVGVDGTLTKLHPHFAKVMHETVKDLAPKCDVSFLQSEDGSGKG  
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>sp|P52790|HXK3\_HUMAN Hexokinase-3 OS=Homo sapiens GN=HK3 PE=1 SV=2

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ALRGQASPAPAVRMLPTYVGSTPHGTEQGDFVLELGATGASLRVLWVTLTGIEGHRVEP  
RSQEFVIPQEVMLGAGQQLFDFAAHCLSEFLDAQPVNKQGLQLGFSFSFPCHQTGLDRST  
LISWTKGFRCSGVEGQDVVQLLRDAIRRGAYNIDVVAVVNDTVGTMGCEPGVRPCEVG  
LVVDGTGNACYMEEARHVAVLDEDRGRVCVSEWGSFSDDGALGPVLTTFDHTLDHESLN  
PGAQRFKEMIGGLYLGLVRLVLAHLARCGVLFGGCTSPALLSQGSILLEHVAEMEDPST  
GAARVHAILQDLGLSPGASDVELVQHVAACVCTRAAQLCAAALAAVLSCLQHSREQQTQ  
VAVATGGRVCERHPRFCVSLQGTVMMLAPECVSLIPVDGGGRGVAMVTAAARLAAHR  
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LDLGGTNFRVLLVRVTGVTITSEIYSIPETVAQSGGQQLFDHIVDCIVDFQQKQGLSGQ  
SLPLGFTFSFPCRQLGLDQGILLNWTGFKASDCEGQDVVSLLREAITRRQAVELNVVAI  
VNDTVGTMMSCGYEDPRCEIGLIVGTGNACYMEELRNVAGVPGDSGRMCINMEWGAFGD  
DGSLAMLSTRFDASVDQASINPGKQRFKEMISGMYLGEIVRHILLHTSLGVLFRGQQIQ  
RLQTRDIFKTKFLSEIESDSLALRQVRAILEDLGLPLTSDDALMVLEVCQAVSQRAAQLC  
GAGVAAVVEKIRENRGLEELAVSVGVDGTLTKLHPRFSSSLVAATVRELAPRCVVTFLQSE  
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>sp|Q12794|HYAL1\_HUMAN Hyaluronidase-1 OS=Homo sapiens GN=HYAL1 PE=1 SV=2

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NPGQTRFRGPDMTIFYSSQLGTYPYYTPTGEPVFGGLPQNASLIAHLARTFQDILAAIPAP  
DFSGLAVIDWEAWRPWAFNWDTKDIYRQSRALVQAQHPDWPAPQVEAVAQDQFQGAAR  
AWMAGTLQLGRALRPRLWGFGYFPDCYNDFLSPNYTGQCPSGIRAQNDQLGWLWGQSR  
ALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAAGAAGDPNLPVLPYVQIFYDTTNHFLPL  
DELEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFILNVTSGALLCSQ  
ALCSGHGRCVRRTSHPKALLLNPAFSIQLTPGGGPLSLRGALSLEDQAQMAVEFKCRC  
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>sp|Q92839|HYAS1\_HUMAN Hyaluronan synthase 1 OS=Homo sapiens GN=HAS1 PE=2 SV=2

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AFLSAHLVAQSLFAYLEHRRVAAAARGPLDAATARSVALTISAYQEDPAYLRQCLASARA  
LLYPRARLRVLMVVDGNRAEDLYMVMDFREVFADDPATYVWDGNYHQPWEPAAAGAVGA  
GAYREVEAEDPGRLAVEALVRTRRCVCVAQRWGGKREVMYAFKALGDSVDYVQVCDSDT  
RLDPMALLELVRLDEDPVGAAGVDVRLNPLDSWVSFLSSRLYWVAFNVERACQSYFH  
CVSCISGPLGLYRNLLQQFLEAWYNQKFLGTHCTFGDDRHLNRMLSMGYATKYTSRSR  
CYSETPSSFLRWLSQQTRWSKSYFREWLYNALWHRHHAWMTYEAVVSGLFPPFVAATVL  
RLFYAGRPWALLVWLLCVQGVALAKAAFAAWLRGCLRMVLLSLYAPLYMCGLLPAKFLAL  
VTMNQSGWGTSGRRKLAANYVPLPLALWALLLLGGLVRSVAHEARADWSGPSRAAEAYH  
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>sp|Q9NX55|HYPK\_HUMAN Huntingtin-interacting protein K OS=Homo sapiens GN=HYPK PE=1 SV=2

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VEALIALTN

>sp|Q6UWB1|I27RA\_HUMAN Interleukin-27 receptor subunit alpha OS=Homo sapiens GN=IL27RA  
PE=2 SV=2

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GAPSELHLQSQKYRSNKTQTVAVAAGRSWVAIPREQLTMSDKLLVWGKAGQPLWPPVFV  
NLETQMKPNAPRLGPDVDFSEDDPLEATVHWAPPTWPSHKVLICQFHYRRCQEAATLLE  
PELKTIPLTPEIQDLELATGYKVYGRMEKEEDLWGEWSPILSFQTPPSAPKDVVWSG  
NLCTPGGEEPLLLWKAPGPCVQVSYKVWFVWGGRELSPEGITCCCSLIPSGAEWARVSA  
VNATSWEPLTNLSLVCLDSASAPRSVAVSSIAGSTELLVTWQPGGEPLEHVVDWARDGD  
PLEKLNWVRLPPGNLSALLPGNFTVGVPIRITVTAVSASGLASASSVWGFREELAPLVGP  
TLWRLQDAPPGTPAIWGEVPRHQLRGHLTHYTLCAQSGTSPVCMNVSGNTQSVTLPLDL  
PWGPCELWVTASTIAGQGPPGPIRLHLPDNLRWKVLPGILFLWGLFLLGCGLSLATSG  
RCYHLRHKVLPRVWVEKVPDPANSSSGQPHMEQVPEAQPLGDLPILEVEEMEPPPVMESS  
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>sp|Q9H1B7|I2BPL\_HUMAN Interferon regulatory factor 2-binding protein-like OS=Homo  
sapiens GN=IRF2BPL PE=1 SV=1

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LRNRAEEWASKPKMVRDTLTLAGCTPYEVRFKKDHSLLGRVFAFDDAVSKPGMDYELKLF  
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AVRFFKEGVPGADMLPQPYLDASCPMLPTALVLSRAPSPPGTGALPPAAPSGRGAAS  
LRKRKASPEPPDSEAGALKGEEQQRQWMANQSEALKLTMSAGGFAAPGHAAGGPPPPP  
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VSPASVPGQRRLASRNGDLNLQVAPPPSAHPGMDQVHPQNPDSPMANSGPLCCTICHE  
RLEDTHFVQCPSVPSHKFCFPCSRESIKAQGATGEVYCPSGEKCPLVGSNVPWAFMQGEI  
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>sp|Q86YZ3|HORN\_HUMAN Hornerin OS=Homo sapiens GN=HRNR PE=1 SV=2

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SGSRQSPSHVRHSGSGHSSSHGQHSGSSYSYRGHYESGSGQTSGFGQHESGSGQSSG  
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>sp|Q9UM19|HPCAL4\_HUMAN Hippocalcin-like protein 4 OS=Homo sapiens GN=HPCAL4 PE=1 SV=3  
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ASKFAQHAFTFDKNGDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLDDGRITRLE  
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IVLLQLQCDMQK

>sp|Q9NWX4|HPF1\_HUMAN Histone PARylation factor 1 OS=Homo sapiens GN=HPF1 PE=1 SV=2  
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EELDPEKPSDSLASLGLQVGPYDILAGKHKTKKKSTGLNFNLHWRFYDPPPEFTII  
GDNKTQYHMGYFRDSPDEFVYVGINEAKKNCIIVPNGDNVFAAVKLFLTKKLREITDKK

KINLLKNIDEKLTEAARELGYSLEQRTVKMKQRDKKVVTKTFHGAGLVVPVDKNDVGYRE  
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>sp|P10915|HPLN1\_HUMAN Hyaluronan and proteoglycan link protein 1 OS=Homo sapiens  
GN=HAPLN1 PE=2 SV=2

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CLDQDAVIASFDQLYDAWRGGLDWCNAGWLS DGSVQYPITKPREPCGGQNTVPGVRNYGF  
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>sp|Q86UW8|HPLN4\_HUMAN Hyaluronan and proteoglycan link protein 4 OS=Homo sapiens  
GN=HAPLN4 PE=2 SV=1

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GGTIVLPCRYHYEAAAHHGDGVR LKWKVVDPLAFTDVFVALGPQHRAFGSYRGRAELQG  
DGPGDASLVLRNVTLQDYGRYECEVT NELEDDAGMVKLDLEGVVPYPYHPRGGRYKL TFAE  
AQRACAEQDGILASAEQLHAAWRDGLDWCNAGWLRDGSVQYPVNRPREPCGGLGGTGSAG  
GGGDANGGLRNRYGRHNAEERYDAFCFTSNLPGRVFFLKPLRPVPFSGAARACAARGAAV  
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>sp|P13985|HRES1\_HUMAN Putative HTLV-1-related endogenous sequence OS=Homo sapiens  
GN=HRES1 PE=5 SV=1

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>sp|P04196|HRG\_HUMAN Histidine-rich glycoprotein OS=Homo sapiens GN=HRG PE=1 SV=1

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VIDFNCTTSSVSSALANTKDSPLIDFFEDTERYRKQANKALEKYKEENDDFASFRVDRI  
ERVARVRGGEGTGYFVDFSVRNCPRHHFPRHPNVFGFCRADLFYDVEALDLES PKNLVIN  
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PDERDHSHPPLPQGPPLPMS CSSCQHATFGTNGAQRHSHNNSSDLHPHKHSH EQH  
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PHNQGHCHGHGPPPGHLRRRGPGKGPRPFHCRQIGSVYRLPPLRKGEVLPLPEANFPSF  
PLPHHKHPLKPDNQFPFQSVSESCPGKFKSGFPQVSMFFTHTFPK

>sp|Q9Y5N1|HRH3\_HUMAN Histamine H3 receptor OS=Homo sapiens GN=HRH3 PE=1 SV=2

MERAPPDGPLNASGALAGEAAAAGGARGFSAAWTAVLAALMALLIVATVLGNALVMLAFV  
ADSSLRTQNNFFLLNLAISDFLVGAFCIPLYVPYVLTGRWTFGRGLCKLWLVVDYLLCTS  
SAFNIVLISYDRFLSVTRAVSYRAQQGDTRRAVRKMLLVVLAFLLYGPAILSWEYLSGG  
SSIPEGHCYAEFFYNWYFLITASTLEFFTPFLSVTFFNLSIYLN IQRRLRLD GAREAA  
GPEPPPEAQSPPPPPGCWGCWQKGHG EAMPLHRYGVGEAAVGA EAGEATLGGGGGGGSV  
ASPTSSSGSSSRGTERPSRLKRGSKPSASSASLEKRMKMVSQSFTQRFRLSRDRKVA KSL  
AVIVSIFGLCWAPYTLLMIIRAACHGHCVDPDYWYETSFWLLWANS AVNPVLYPLCHHSFR



RAFTKLLCPQKLKIQPHSSLEHCWK

>sp|075031|HSF2B\_HUMAN Heat shock factor 2-binding protein OS=Homo sapiens GN=HSF2BP PE=1 SV=1

MGEAGAAEEACRHMGTKEEFVKVRKKDLERLTTEVMQIRDFLPRILNGEVLESFQKLKIV  
EKNLERKEQELEQLKMDCEHFKALETQADNIREKKEKLALRQQLNEAKQQLLQQAAYC  
TEMGAAACTLLWGVSSSEEVVKAILGGDKALKFFSITGQTMESFVKSLDGDVQELDSDES  
QFVFALAGIVTNVAAIACGREFLVNSSRVLLDTILQLLGLDKPGQCTKLKVLMLMSLYNV  
SINLKGLKYISESPGFIPLLWWLLSDPDAEVCLHVLRLVQSVVLEPEVFSKSASEFRSSL  
PLQRILAMSKSRNPRLQTAAQELLEDLRTLEHNV

>sp|Q96LI6|HSFY1\_HUMAN Heat shock transcription factor, Y-linked OS=Homo sapiens GN=HSFY1 PE=1 SV=1

MAHVSSETQDVSPKDELTAESTRSPLCEHTFPGSDLRSMIEEHAFQVLSQGSLLSP  
SYTVCVSEPKDDDFLSLNFPRKLWKIVESDQFKSISWDENGTCIVINEELFKKEILETK  
APYRIFQTDIAKSFVRQLNLYGFSKIQNFQSAFLATFLSEEKESVLSKLKFYNNPNF  
KRGYPQLLVRVKRRIGVKNASPISTLFNEDFNKKHFRAGANMENHNSALAAEASEESLFS  
ASKNLNMPLTRESSVRQIIANSSVPIRSGFPPSPSTSVGPSEIATDQHAILNQLTTIH  
MHSHTYMQARGHIVNFITTTTSQYHIIISPLQNGYFGLTVEPSAVPTRYPLVSVNEAPYR  
NMLPAGNPWLQMPTIADRSAAPH SRLALQPSPLDKYHPNYN

>sp|Q12988|HSPB3\_HUMAN Heat shock protein beta-3 OS=Homo sapiens GN=HSPB3 PE=1 SV=2

MAKII LRHLIEIPVRYQEEFEARGLEDCLRDHALYALPGPTIVDLRKTRAAQSPPVDSAA  
ETPPREGKSHFQILLDVVQFLPEDII IQTFEGWLLIKAQHGTMRMDEHGFISRSFTRQYKL  
PDGVEIKDLSAVLCHDGILVVEVKDPVGTK

>sp|Q92743|HTRA1\_HUMAN Serine protease HTRA1 OS=Homo sapiens GN=HTRA1 PE=1 SV=1

MQIPRAALLPLLLLLLAAPASAQLSRAGRSAPLAAGCPDRCEPARCPPQPEHCEGGRARD  
ACGCCCEVCGAPEGACGLQEGPCGEGLCVVPFGVPASATVRRRAQAGLCVCASSEPVCG  
SDANTYANL CQLRAASRRSERLHRPPVIVLQRGACGQGQEDPNSLRHKYNFIADVVEKIA  
PAVVHIELFRKL PFSKREVPV ASGSGFIVSEGLIVTNAHVVTNKHVRKVELKNGATYEA  
KIKDVDEKADIALIKIDHQGLPVLLGRSSELRPGEFVVAIGSPFSLQNTVTTGIVSTT  
QRGGKELGLRNSDMYIQTDAI INYGNSGGPLVNL DGEVIGINTLKV TAGISFAIPSDKI  
KKFLTESHDRQAKGKAITKKKYIGIRMSLTSSKAKELKDRHRDFPDVISGAYIIIEVIPD  
TPAEAGGLKENDV IISINGQSVVSANDVSDVIKRESTLNMVVRGNEDIMITVIPEEIDP

>sp|P83110|HTRA3\_HUMAN Serine protease HTRA3 OS=Homo sapiens GN=HTRA3 PE=1 SV=2

MQARALLAALALALAREPPAAPCPARCDVSRCPSPRCGGYVPDLCNCLVCAASEGE  
PCGGPLDSPCGESLECVRLCRCRWSHAVCGTDGHTYANVCALQAASRRALQLSGTPVRQ  
LQKGACPLGLHLSSPRYKFNFIADVVEKIA PAVVHIELFLRHPLFGRNVPLSSGSGFIM  
SEAGLIITNAHVSSNSAAPGRQQLKVQLQNGDSYEATIKDIDKKS DIATIKIHPKKKL P  
VLLGHSADLRPGEFVVAIGSPFALQNTVTTGIVSTAQREGRELGLRDSMDYIQTDAII  
NYGNSGGPLVNL DGEVIGINTLKV TAGISFAIPSDRITRFLTEFQDKQIKDWKKRFIGIR  
MRTITPSLVDELKASNPDFPEVSSGIYVQEVAPNSPSQRGGIQDGDIIIVKVNRP LVDSS  
ELQEAVLTESPLLLVRRGNDLLFSIAPEVVM

>sp|P83105|HTRA4\_HUMAN Serine protease HTRA4 OS=Homo sapiens GN=HTRA4 PE=2 SV=1

MIRPQLRTAGLGRCLLPGLLLLLVPVLWAGAEKLHTQPSCPAVCQPTRCPALPTCALGTT  
PVFDLCRCRCRVCPAAEREVCGGAQGPCAPGLQCLQPLRPGFPSTCGCPTLGGAVCGSDR  
RTYPSMCALRAENRAARRLGKVPAPVPVQWGNCGDTGTRSAGPLRRNYNFIAAVVEKVAPS

VVHVQLWGRLLHGSRLVPVYSGSGFIVSEDGLIITNAHVVRNQWIEVVLQNGARYEAVV  
KDIDLKLDLAVIKIESNAELPVLMLGRSSDLRAGEFVVALGSPFSLQNTATAGIVSTKQR  
GGKELGMKDSMDYVQIDATINYNSGGPLVNLGDVIGVNSLRVTDGISFAIPSDRVRQ  
FLAEYHEHQMKGKAFSNKKYLGLQMLSLTVPLSEELKMHYPDFPDVSSGVYVCKVVEGTA  
AQSSGLRDHDVIVNINGKPITTTTDDVVKALDSDSLMAVLRGKDNLLLTVIPETIN

>sp|043719|HTSF1\_HUMAN HIV Tat-specific factor 1 OS=Homo sapiens GN=HTATSF1 PE=1 SV=1

MSGTNLDGNDEFDEQLRMQELYGDGKGGDTQTDAGGEPDSLQGPPTDTPYEWDLKKAWF  
PKITEDFIATYQANYGFSNDGASSSTANVEDVHARTAEPPQEKAPEPTDARKKGEKRKA  
ESGWFHVEEDRNTNVYVSGLPDITVDEFIQLMSKFGIIMRDPQTEEFKVKLYKDNQGNL  
KGDGLCCYLKRESVELALKLLDEDEIRGYKLHVEVAKFQLKGEYDASKKKKKCKDYKKKL  
SMQQKQLDWRPERRAGPSRMRHERVVIKNMFHPMDFEDDPLVLNEIREDLRVECSKFGQ  
IRKLLLFDRHPDGVASVSFRDPPEADYCIQTLDGRWFGGRQITAAWDGTTDYQVEETSR  
EREERLRGWEAFLNAPEANRGLRRSDSVSASERAGPSRARHFSEHPSTSKMNAQETATGM  
AFEPIDEKKFEKTEDGGEFEEGASENNAKESSEPEKEAEEGCPEKESEEGCPKRGFEGSC  
SQKESEEGNPVRGSEEDSPKESKKTLLKNDCEENGLAKESEDDLKESSEEEVGPTKESE  
EDDSEKESDEDCSEKQSEDGSEREFEENGLEKDLDEEGSEKELHENVLDKELEENDSENS  
EFEDDGSEKVLDEEGSEREFDEDSDEKEEEEDTYEKVFDDDESDEKEDEEYADEKGLEAAD  
KKAEEGDADEKLFEESDDKEDEDADGKEVEDADEKLFEDDDSNKELFDEEDSSEKLFDD  
SDERGTLLGGFGSVEEGPLSTGSSFILSSDDDDDDI

>sp|P31267|HXA6\_HUMAN Homeobox protein Hox-A6 OS=Homo sapiens GN=HOXA6 PE=2 SV=2

MSSYFVNPTFPGSLPSGQDSFLGQLPLYQAGYDALRPFPAASYGASSLPDKTYTSPCFYQQ  
SNSVLACNRASYEYGASCFYSKDLSGASPSGSGKQRGPGDYLFHSPEQQYKPDSSSGQG  
KALHDEGADRKYTSPVYPWMQRMNSCAGAVYGSHGRRGRQTYTRYQTLELEKEFHFNRYL  
TRRRRIETIANALCLTERQIKIWFQNRMRMKWKKENKLINSTQPSGEDSEAKAGE

>sp|P09016|HXD4\_HUMAN Homeobox protein Hox-D4 OS=Homo sapiens GN=HOXD4 PE=2 SV=3

MVMSSYMVNSKYVDPKFPPEEYLQGGYLGEQGADYYGGGAQGADFQPPGLYPRPDFGEQ  
PFGSGPGPGSALPARGHGQEPGGPGGHYAAPGEPCPAPPAPPPAPLPGARAYSQSDPKQ  
PPSGTALKQPAVVYPWMKKVHVNSVNPNTYGGEPKRSRTAYTRQQVLELEKEFHFNRYLT  
RRRRRIEIAHTLCLSERQIKIWFQNRMRMKWKDKHKL PNTKGRSSSSSSSSSCSSSVAPSQH  
LQPMKDHHTDLTTL

>sp|P35557|HXK4\_HUMAN Glucokinase OS=Homo sapiens GN=GCK PE=1 SV=1

MLDDRARMEAAKKEKVEQILAEFQLQEEDLKKVMRRMQEMDRGLRLETHEEASVKMLPT  
YVRSTPEGSEVGDFLSLDLGGTNFRVMLVKVGEGEGQWSVKTKHQMYSIPEDAMTGAE  
MLFDYISECISDFLDKHQMKHKKLPLGFTFSFPVRHEDIDKGILLNWTGFKASGAEGNN  
VVGLLRDAIKRRGDFEMDVVAMVNDTVATMISCYEDHQCEVGMIVGTGCNACYMEEMQN  
VELVEGDEGRMCVNTEWGAFGDSGELDEFLLEYDRLVDESSANPGQQLYEKLIGGKYMGE  
LVRLVLLRLVDENLLFHGEASEQLRTRGAFETRFSQVESDTGDRKQIYNILSTLGLRPS  
TTDCDIVRRACESVSTRAAHMCSAGLAGVINRMRESRSEDVMRITVGVGDSVYKLHPSFK  
ERFHASVRRLTPSCEITFIESEEGSGRGAALVSAVACKKACMLGQ

>sp|000219|HYAS3\_HUMAN Hyaluronan synthase 3 OS=Homo sapiens GN=HAS3 PE=2 SV=3

MPVQLTTALRVVGTSLFALAVLGGILAAYVTGYQFIHTEKHYLSFGLYGAILGLHLIIQS  
LFAFLEHRRMRAGQALKLPSRRGSVALCIAAYQEDPDYLRKCLRSAQRISFPDLKVVM  
VVDGNRQEDAYMLDIFHEVLGGTEQAGFFVWRSNFHEAGEGETEASLQEGMDRVRDVVRA  
STFSCIMQKWGGKREVMYATFALKGDSVDYIQVCDSDTVLDPACTIEMLRVLEEDPQVGG

VGGDVQILNKYDSWISFLSSVRYWMAFNVERACQSYFGCVQCISGPLGMYRNSLLQQFLE  
DWYHQKFLGSKCSFGDDRHLTNRVLSLGYRTKYTARSKCLTETPTKYLRWLNQQTRWSKS  
YFREWLNSLWFHKHHLWMTYESVVTGFFPFLLIATVIQLFYRGRIWNILLFLLTVQLVG  
IIKATYACFLRGNAEMIFMSLYSLLYMSSLLPAKIFAIATINKSGWGTSGRKTIVNFIG  
LIPVSIWVAVLLGGLAYTAYCQDLFSETELAFVSGAILYGCYWVALLMLYLAI IARRCG  
KKPEQYSLAFAEV

>sp|Q4G0P3|HYDIN\_HUMAN Hydrocephalus-inducing protein homolog OS=Homo sapiens GN=HYDIN  
PE=1 SV=3

MTSRRLEESMGAVQMGLVNMFKGFQSKVLPPLSPKVVTTEEVRNMLTPSEFLKEMSLTTE  
QRLAKTRLMCRPQIIELLDMGETHQKFSGIDLQALFQFPFSEIIFQNYTPCEVYEVPL  
ILRNNDKIPRLVKVVEESSPYFKVISPKDIGHKVAPGVPSIFRILFTPEENKDYAHTLTC  
VTEREKFIVPIKARGARAILDFPDKLNSTCPVKYSTQKILLVRNIGNKNAVFHIKTCRP  
FSIEPAIGTLNVGESMQLEVEFEPQSVGDHSGRLIVCYDTGEKVFSVSLYGAAIDMNIRLD  
KNSLTIEKTYISLANQRTITIHNRSNIIAHFLWKVFATQQEEDREKYRACDDL IKEEKDE  
TDEFFEECITDPLLREHLSVLSRTFANQRRLVQGDSKLFFNNVFTVEPLEGDVWPNSSAE  
ITVYFNPLEAKLYQQTIIYCDILGREIRLPLRIKGEIMGPKIHFNFELLDIGKVFTGSAHC  
YEAILNKGSIDALFNMTPTSALGACFVFSPEKGIIEPSGVQAIQISFSSTILGNFEEE  
FLVNVNGSPEPVKLTIRGCVIGPTFHFNPALHFGDVSGFPHTLICSLNNTSLIPMTYK  
LRIPGDGLGHKSISYCEQHVDYKRPSWTKEEISSMKPKEFTISPDCGTIRPQGFAAIRVT  
LCSNTVQKYELALVVDVEGIGEEVLALLITARCVPVPAHLVNTEVDFGHCFKYPYEKTL  
QLANQDDLPGFYEVQPQVCEEVPTVLFSSPTPSGVISPSSTIHIPLVLETQVTGEHRSTV  
YISIFGSQDPPLVCHLKSAGEGPVIYVHPNQVDFGNIYVLKDSSRILNLCNQSFIPAFFQ  
AHMAHKKSLWTIEPNEGMPPETDVQLALTANLNDTLTFKDCVILDIENSSTYRIPVQAS  
GTGSTIVSDKPFAPELNLGAHFSLDTHYYHFKLINKGRRIQQLFWMNDSFRPQAKLSKKG  
RVKKGHAHVQPQPSGSQEPRDPQSPVFHLHPASMELYPGQAIDVILEGYSATPRIVKEKL  
VCHAIIGAQKGKSLVMVNITCEFVAPLIQLSTKQLIYRLEKKPNSILKPDYQPLAIKNI  
STLPVNLLLSTSGPFFICETDKSLLPATPEPIKLEIDEEKNLLIKFDPSYRNDLNNWVAE  
EILAIKYVEHPQIDSLDLRGEVHPNLSFETKELDFGCILNDELIRYVTITNCSPLVVK  
FRWFFLVNDEENQIRFVTLPKKPYSAPVSQMESISPATSEAAASPAILVTVESPEMDLND  
VKTVLVDEEDARPEEKELRKTKASSVISDEIKISSTEIERIYSSQSQVEDQESLQTCEQNE  
MLSIGIEEVFDILPLFGVLQPHSSHQISFTFYGHANIIAQAKALCEVEEGPTYEITLKGE  
ASLVNYSFDTKDIHYGLQLFDHVTREITLTNMGKVGFEFKVLDHQSSPDNLLPGVPLI  
LPVSGFISSHQEVLKVYYLPGVPEVFKRSFQIIAHLDPENITLSGEGIFPQICLDLPR  
NLTANEKYEMFLNQARKNTDKEYNKCMLDHFDIITEEVPEDEPAEVS AHLQMEVERLIV  
QSYVLEHQKTTTPDPMDDPCFHSRRLAKIQLPEYILDFGYIILGEVRTHIIKIINTS  
HFPVSFHADKRVLHETGFSTELDRVKNLPHCETEIFEVRFDPPQGANLPVGSKEVILPIKV  
VGGPTVHICLQAKVTIPTMTLSRGKVD FATIQCQCLVETIQLSNHLQVPCEWVQSQKP  
VDKLEKHMPKYLRQKLRAELKPKTRIFEIQPISGVLDPGEKSNVQVKFMPKEEFYSQTL  
VFQIAQSAQKLTLLARGQGLEPRLEFSPSVLDLGPLLLCAPGDEAEVIVKNPCNFPIEFY  
SLEFDQQYLIEEKILRKLGYSYNTLLPPRNPGEKLPPELYEYFKEIKKSKEEQMRAK  
YLENLAQENEEEDITSSDQGTSNSTKRTSLSRGISVTNLEEWALLVESKTYLEEEDE  
ESLEKIIIFQTDKLSIDSHSMEEVGEVENNPVSKAIARHLGIDISAEGRLAKNRKGIAT I  
IHGTPLSGKSANAVSVAKYYNAACLSIDSI VLEAVANSNIPGIRARELCIRAAIEQSVK  
EGEEAAQEAAGQNVIGQGRLSTDTLGLASEMTLVAPEIKPGKSVRGSVVITKSKADSH

GSGSQKHSHQSETPQISSSPLPPGIHRWLSVSPSVGGETGLMSCVLPDELLVQILAE  
RIQLSDCYRGVFDGLDTLFAQNAALLCLLKAIGSREHIYILNMAQDYAAMKAQEKAK  
KEQEERKHKGALEKEKERLQNMDEEYDALTEEEKLTFDRGIQQALRERKKREQLAKE  
MQEKKLQQELERQKEEDELKRRVKKGKQGP IKEEPMKKSQAANKQVPPLTKVDVKMETI  
ERKISVREQTMSEKEELNKKRNMGDVS MHGLPLVQDQEDSEGDNSKDPDKQLAPKFKTY  
ELTLKDVQNILMYWDRKQGVQLPPAGMEEAPHEPDDQRQVPLGRRGRKDRERERLEKER  
TEKERLEREKAERERLEKLRALEERSDWEGEGEEDHEGKKEKDLGVPFLDIQTPDFEGLS  
WKQALESDKLPKGEQILDILGLGASGPPIPPPALFSIVSYPVKRPPLTMTDDLEHFVFI  
PPSEDISLDEKKEMIEESDFLATNTTTKAQEEQTSSSKGGKQKMEKIDQVFEIQDKRH  
MALNRKVLSGEPAGTISQLSDTDLNFGQHSQEKFTRLNHFRWIVPANGEVTLQVHFSS  
DEFGNFDQTFNFEILGTCCQYQLYCRGICTYPYICQDPKVVPQRKMDMKTNEVIFKKYV  
MSTETYFGLLCCGSRDKYKSSLFPGNMETLTILNTSLMVVEASFYFQNDVKANTYFLE  
PNTMVLKPNKQILNVWAYPTSVGVFEDSIVCCINDNPEPAIFQLSCQGIRPELELEPRQ  
LHFDRLLLHRQESRVLLRNVLTLLPVAWRITSLEHLGDDFTVSLMQGTIPPEAEYGLHLY  
FQPTKPVNIKKAIRLEVDAENLLGVVQIENIMVFAEYDIALDITFPKGAEGGLDFGIV  
RVTEEAKQPLQLKNRGKYEIAFSFSVDSVGISTPNINSMISVQPKGSLTPTEKPTNVQV  
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LICGTRKSTTFTIENQGVTDKFALYKLTGESPIHQKKAASHVRHARSRESESFYKTGSS  
RAAKFSDTIQKEVTTTGQARFAHGMFTVYPGFGSIPSGGQVINVDCVADAMGKCEEFIGA  
IDISGRDPAVHPAGILYTLAEACLPAFVTENNALIFEHQICTSANLHHILQTIESGGL  
FVEDENKIFCNVLVGRQAKARFKISNVGKITCDVNIVVRPISNKPFAIRIVDIFEVEPSK  
MCIASSHAFATVSFTPQIMQNYQCIFEATLDGLPSTLAKSRGLVFDIAGEGNLPRVTVV  
RPVLHNQYGNPLLLFKRLLGHSEKLPLILKNNGVLPALHVDLQDELGVFSLKGRPTTA  
YIYTEENKPHVKAKKAHTASLVSPGDTAEFDVVFHSQKVGRMRGIIHLSVINNQEET  
SIHMGEGYEDDITLDNIHGLVAPTSQEDISISEFTEIIEDNDMEDLVAAALVDHIQFGD  
CHIGHSYNASFTVTNHSQVNLIRFEWPVSATIAFSPQMGLHHPGCAKDIVVTMKS DVPIN  
LKNMRIRCKLSRIMFQLPADQVPDWD RMHTVKWVDVPRNMPGTFTTKRKVIETDPEPAH  
SVLEENYQELQLQISANVDFASYHCQARDVRFKETLVYQTRVFEFDVINSGRVQLEFSWV  
SEDTSAVSFAKPDHQGSAQDKLSQGTMTGSTLDSTMDHWAEGSPQPFSEVPSSGIVP  
VGKIQKFVKFSPLDIGDFESNLFCQIPNLPPGEQGPVLVAKGRSTLPICHFDLKSDYI  
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LQNPAFTCLTEKGFHPEKKAEIFVQFTPFHLGITESSWTFIPEHNITVPFLLVGKTT  
EPLISLNKSHLNFSSLLIGREARETVQIINKEEQGFD FSFQDNSRYSEGFSNSLLVCPME  
GWIPPLSRFPIDIFFTPKQEGDVNFNLICNVEKKVHPVTLNVKAEGYTMNVEIKCKDRTG  
SITLLTPNQTNINIFYEVELNECVQCEFNFINTGKFTFSFQAQLCGSKTLLQYLEFSPID  
STVDVGQSVHATLSFQPLKKCVLTDLELIIKISHGPTFMCNISGCAVSPA IHFSFTSYNF  
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SIMNNSLAQLTFNQSLFTIPELQEPKVLTLAPFHNITLKPKEVCKLEVIFAPKKRVPPF  
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FKWDIKKFEPHFSISPEEGYITSGMEVSFEVYHPTEVGKESLCKNILCYIQGGSPLSLT  
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HQQNKPYEITYRPRMTNLENRKHQGTLLFFPLPDGTGWL YALHGTSELPAVANIYREVPC  
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HKEGTYAAKVI FRNEVTNEFLYYNVSF RVIPSGIIKTIEMVTPVRQVASASIKLENPLPY  
SVTFSTECRMPDIALPSQFVVPANSEGTFSEFQPLKAGETFGRLTLHNTDLGYYQYELY  
LKATPALPEKPVHFQTVLGSSQIILVKFINYTRQRTEYYCRTDCTDFHAEKLINAAPGGQ  
GGTEASVEVLFEPSHLGETKGILILSSLAGGEYIIPLFGMALPPKPQGPF SIRAGYSIII  
PFKNV FYHMTFSIIVDNPAFTIRAGESVRPKKINNITVSFEGNPSGSKTPITTKLTVSC  
PPGEGSETGVKWWYYLKGITL

>sp|P34913|HYES\_HUMAN Bifunctional epoxide hydrolase 2 OS=Homo sapiens GN=EPHX2 PE=1 SV=2

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ILTNTWLD DRAERDGLAQLMCELKMHFD FLIESCQVGMVKPEPQIYKFLDLTKASPSEV  
VFLDDIGANLKPARDLGMVTILVQD TD TALKELEKVTGIQLLNT PAPLPTSCNPSDMSHG  
YVTVKPRVRLHFVELGSGPAVCLCHGFPE SWYRYPALAQAGYRVLAMD MKGYGESS  
APPEIEEYCM EVLCKEMVTFLDKLGLSQAVFIGHDWGGMLVWYMA LFYPERVRAVASLNT  
PFIPANPNMSPLESIKANPVFDYQLYFQEPGVAEAELEQNL SRTFKSLFRASDESVL SMH  
KVCEAGGLFVNSPEEPSLRMVTEEEIQFYVQQFKKSGFRGPLNWYRN MERNWKWACKSL  
GRKILIPALMVTAEKDFVLVPQMSQH MEDWI PHLKRGHIEDCGHWTQMDKPTEVNQILIK  
WLDS DARNPPVVS KM

>sp|Q8TCT9|HM13\_HUMAN Minor histocompatibility antigen H13 OS=Homo sapiens GN=HM13 PE=1 SV=1

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLL MALLPIFFGALRSVRCARG  
KNASDMPETITSRDAARFPIIASCTLLGLYLFFKIFSQEYINLLS MYFFVLGILALSHT  
ISPFMNKFFPASFPNRQYQLLFTQGS GENKEE I INYEFDTKDLVCLGLSSIVGVYLLRK  
HWIANNLFGLAFSLNGVELLHLN NVSTGCILLGGLFIYDVFWVFGTNVMVTVAKSFEAPI  
KLVFPQDLLEKGLEANNFAMLGLGDVVIPGIFIALLLRFDISLKNTHTYFYTSFAAYIF  
GLGLTIFIMHIFKHAQPALLYLPACIGFPVLVALAKGEVTEMFSY EESNPKDPAAVTES  
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>sp|Q6NT76|HMBX1\_HUMAN Homeobox-containing protein 1 OS=Homo sapiens GN=HMBX1 PE=1 SV=1

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FGRSSYGGSSYGNSTNNVPASSSTATASTQTQHSGMSPSPSNSYDTSPQPCTTNQNGRE  
NNERLSTSN GKMSPTRYHANS MGQRSYSFEASEEDLDVDDKVEELMRRDSSVIKEEIKAF  
LANRRISQAVVAQVTGISQSRISHWLLQQGSDLSEQKKRAF YRWYQLEKTNPGATLSMRP  
APIPIEDPEWRQTPPPVSATSGTFRLLRGRFTWRKECLAVMESYFNENQYPDEAKREEI  
ANACNAVIQKPGKLSDLERVTS LKVYNWFANRRKEIKRRANIEAAI LESHGIDVQSPGG  
HSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMA AVNHTILALARQGANEIKTEALDDD

>sp|Q86YV9|HPS6\_HUMAN Hermansky-Pudlak syndrome 6 protein OS=Homo sapiens GN=HPS6 PE=1 SV=1

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RGPGAELERAWPAGQPSPLDAFFLPWPARPALVLVWESGLAEVWGAGVGPGRPLQSTEL  
CPGGGARVVAVAA LRGLVWCEERQARAEGPSGSPAAAFSHCV CVRTLEPSGEASTSLGR  
THVLLHHCPAFGLLASCRQLFLVPTATTWPGVAHVLLI WSPGKGKVMVAAPRLGLSYSKS  
LNPGRGDTWDFRTLRLRGLPGLLSPREPLAVHTWAPTPQG LLLLD FGGTVSLLQSHGGTRA  
VGTLQEAPVGPWGSAALGT FQGT LACVLGSTLELLDMGSGQLLERKVLSTDRVHLEPPA  
PGMEDEEELETRGNLRLLSALGLFCV GWEAPQGVELPSAKDLVFEEACGY YQRRSLRGAQ  
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GWTELAEQEVARLLRTELIGDQLAQLNTVFQALPTAAWGATLRALQLQLDGNGKLR SQAP  
PDVWKKVLGGITAGKEPPNGILPPFELLCQCLCQLEPRWLPPFVELAQQQGGPGWGAGGP  
GLPLYRRALAVLGEEGRPEALELELELLSSGRPKAVLQAVGQLVQKEQWDRALDAGLALG  
PSSPLLRSEIFKLLLAEFAQHRRDLAHLPLLCRLCPPELAPAELLLLRTYLPDEVGPPPT  
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>sp|P00739|HPTR\_HUMAN Haptoglobin-related protein OS=Homo sapiens GN=HPR PE=2 SV=2  
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TEGDGVYTLNDDKKQWINKAVGDKLPECEAVCGKPKNPANPVQRILGGHLDAGSFPWQAK  
MVSHHNLTTGATLINEQWLLTTAKNLFNLHSENATAKDIAPTLTLYVGKKQLVEIEKVVL  
HPNYHQVDIGLIKQKQVLVNERVMPICLPSKNYAEGVRGVYVSGWGQSDNFKLTDHLKY  
VMLPVADQYDCITHYEGSTCPKWKAPKSPVGVQPILNEHTFCVGMISKYQEDTCYGDAGSA  
FAVHDEEDTWTYAGILSFDKSCAVALYGVYVKTSTIQHWVQKTIAEN

>sp|P00738|HPT\_HUMAN Haptoglobin OS=Homo sapiens GN=HP PE=1 SV=1  
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EGDGVYTLNDDKKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRT  
GDGVYTLNNEKQWINKAVGDKLPECEAVCGKPKNPANPVQRILGGHLDAGSFPWQAKMV  
SHHNLTTGATLINEQWLLTTAKNLFNLHSENATAKDIAPTLTLYVGKKQLVEIEKVVLHP  
NYSQVDIGLIKQKQVSVNERVMPICLPSKDYAEVGRGVYVSGWGRNANFKFTDHLKYVM  
LPVADQDQCIRHYEGSTVPEKKTSPVGVQPILNEHTFCAGMSKYQEDTCYGDAGSAFA  
VHDEEDTWTYATGILSFDKSCAVALYGVYVKTSTIQDWVQKTIAEN

>sp|P35367|HRH1\_HUMAN Histamine H1 receptor OS=Homo sapiens GN=HRH1 PE=1 SV=1  
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VGNLYIVSLSVADLIVGAVVMPMNILYLLMSKWSLGRPLCLFWLSMDYVASTASIFSFI  
LCIDRYRSVQQPLRYLYKRTKTRASATILGAWFLSFLWVPIILGWNHFMQQTSVRREDKC  
ETDFYDVTWFKVMTAIIINFYLPDLLWFIYAKIYKAVRQHCQHRELINRSLPSFSEIKLR  
PENPKGDAAKPGKESPEVFLKRKPKDAGGGSVLKSPSQTPKEMKSPVVSQEDDREVDKL  
YCFPLDIVHMQAAAEGSSRDYVAVNRSHGQLKTDEQGLNTHGASEISEDQMLGDSQSFSR  
TDSDDTTETAPGKGLRSGSNTGLDYIKFTWKRLRSHSRQYVSGLHMNRERKAQKLGFI  
MAAFILCWIPYFIFFMVIAFCNCCNEHLMFTIWLGYINSTLNPLIYPLCNENFKKTFK  
RILHIRS

>sp|P25021|HRH2\_HUMAN Histamine H2 receptor OS=Homo sapiens GN=HRH2 PE=2 SV=1  
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AITDLLLGLLVLPFSAIYQLSCKWSFGKVFCNIYTSLDVMLCTASILNLFMISLDRYCAV  
MDPLRYPVLVTPVRVAISLVLIWVISITLSFLSIHLGWNSRNETSKGNHTTSKCKVQVNE  
VYGLVDGLVTFYLPLLIMCITYYRIFKVARDAQKRINHISWKAATIREHKATVTLAAVM  
GAFIICWFPYFTAFVYRGLRGDDAINEVLEAIVLWLGANSALNPILYAALNRDFTGYQ  
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>sp|Q8IZT8|HS3S5\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 5 OS=Homo sapiens  
GN=HS3ST5 PE=1 SV=1  
MLFKQQAQLRQKLLVLGSLAVGSLLYLVARVGSLDRLQPICPIEGRGGARTQAEFPLRA  
LQFKRGLLHEFRKGNASKEQVRLHDLVQQLPKAIIIGVRKGGTRALLEMLNLHPAVVKAS  
QEIHFDDNDENYKGIWYRKMPFSYPQQITIEKSPAYFITEEVPERIYKMNSSIKLLI  
IVREPTTRAISDYTVLEGKERKNKTYKFEKLADPNTCEVNTKYKAVRTSIYTKHLER  
WLKYFPIEQFHVVDGDRLITEPLPELQLVEKFLNLPPRISQYNLYFNATRGFYCLRFNII

FNKCLAGSKGRIHPEVDPSVITKLRKFFHFPNQKFYQITGRTLNP

>sp|O95757|HS74L\_HUMAN Heat shock 70 kDa protein 4L OS=Homo sapiens GN=HSPA4L PE=1 SV=3

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RNTIHGFKKLHGSRFDDPIVQTERIRLPYELQKMPNGSAGVKVRYLEEERPFATIEQVTGM  
LLAKLKETSENAKKPVADCVISIPSFFTDAERRSVMAAAQVAGLNCLRLMNETTAVALA  
YGIYKQDLPLDEKPRNVFIDMGHSAYQVLVCAFNGKGLKVLATTFDYPYLGGRNFDAL  
VDYFCDEFKTKYKINVKENSALLRLYQECEKLKLSANASDLPLNIECFMNDLDVSSK  
MNRAQFEQLCASLLARVEPPLKAVMEQANLQREDISSIEIVGGATRIPAVKEQITKFFLK  
DISTTLNADEAVARGCALQCAILSPAFAKVFESITDLVPYSITLRWKTSEFSGGECEVF  
CKNHPAPFSKVITFHKKEPFELEAFYTNLHEVPYPDARIGSFTIQNVFPQSDGSSKVKV  
KVRVNIHGIFSVASASVIEKQNLGSDHSDAPMETETSFKNENKDNMDKMVDQEEGHQKC  
HAEHTPEEEIDHTGAKTKSAVSDKQDRLNQTLKKGKVKSIDLPIQSSLCRQLGQDLLNSY  
IENEGKMIMQDKLEKERNDAKNAVEEYVYDFRDRLGTVEKFITPEDLSKLSAVLEDTEN  
WLYEDGEDQPKQVYVDKLQELKKYGQPIQMKYMEHEERPKALNDLGKKIQLVMKVIAYR  
NKDERYDHLDPTEMEKVEKCSIDAMSWLNSKMNAQNKLSLTQDPVVKVSEIVAKSKELDN  
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>sp|Q4G112|HSF5\_HUMAN Heat shock factor protein 5 OS=Homo sapiens GN=HSF5 PE=2 SV=2

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GTAGAGAEPELFKTSFTSFIRQLNLYGFRKVVLLGGPGGKPAAGNGLHHFHNPHFRRDQ  
PQLLVHLKRLTSANKAKLAAGLEVPCRPNNRFQRLITSASAATAPLQHQQPPPPAGPRP  
EPHGPVAVGQFHRSFRRDSLSPYSCVSTPSHDSTYPLKGLDRTPVPHRIWQNSLGMHPG  
QVETSPTFSKGVFPFVLQRFPTVYTLQPTSTSVHVQQGPQTMVSSSQKYSNYTPSAQ  
YSQAYYPTAVLQCCSPTHMDALSSCVTPNASSYAHCNFYQNPMSQSSYPVEFLPSNWPCS  
TTDENTKTEVNLEAVFQIVDELHSSPKLEMVKVEPVENQCPTSPSYRGQHILANSNNSNP  
CSASQASQLEPLTPVGSDIMSFVVGTEQAVACSLPQSPEYIYTIHTAQPVENSTIQESAA  
IQQAHVKLKEHLNHNPSSSVVFVQEGPPFSTHQVDANIKCQTSSRENILPSEQMGFLIS  
EMGPASKPSEDGTGLATPARYREHRSNSQQGKSPDLHLLVDVACKQERFPKEELKE

>sp|Q9UJY1|HSPB8\_HUMAN Heat shock protein beta-8 OS=Homo sapiens GN=HSPB8 PE=1 SV=1

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PGTLRSGMVPRGPTATARFGVPAEGRTPPFPGEPPWKVCNVHSHFKPEELMVKTKDGYVE  
VSGKHEEKQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIEAPQVPPYSTFGES  
SFNNELPQDSQEVCT

>sp|Q96AB3|ISOC2\_HUMAN Isochorismatase domain-containing protein 2 OS=Homo sapiens  
GN=ISOC2 PE=1 SV=1

MAAARPSLGRVLPSSVFLCDMQEKFRHNIAYFPQIVSVAARMLKVARLLEVPMLTEQ  
YPQGLGPTVPELGTGLRPLAKTCFSMPALQQELDSRPQLRSVLLCGIEAQACILNTTL  
DLLDRGLQVHVVDACSSRSQVDRLVALARMRQSGAFLSTSEGLILQLVGDAVHPQFKEI  
QKLIIKEPAPDSGLLGLFQGQNSLLH

>sp|Q9UKX5|ITA11\_HUMAN Integrin alpha-11 OS=Homo sapiens GN=ITGA11 PE=1 SV=2

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CSPLWSHECGSSYYTTGMSRVNSNFRFSKTVAPALQRCQTYMDIVIVLDGSNSIYPWVE  
VQHFLINILKKFYIGPGQIQVGVVQYGEDVVHEFHLNDYRSVKDVVEAASHIEQRGGTET  
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GYNNRRGINPETFLNEIKYIASDPDDKHFFNVTDEAALKDIVDALGDRIFSLEGTNKNET  
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HGAYLGYTVTSVSVSSRQGRVYVAGAPRFNHTGKVLFTMHNNRSLTIHQAMRGQQIGSYF  
GSEITSVDIDGDGVTVDVLLVGAPMYFNEGRERGVVYVELRQNLVYNGTLKDSHSYQNA  
RFGSSIASVRDLNQDSYNDVVVGAPLEDNHAGAIYIFHGFRGSILKTPKQRITASELATG  
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RSGRDATCLAAFLCFPTIFLAPHFQTTTVGIRYNATMDERRYTPRAHLEGGDRFTNRAV  
LLSSGQELCERINFHVLDTADYVKPVTFVSVEYSLEDPDHGPMDDGWPTTLRVSVPFWNG  
CNEDEHCVPDVLVDARSDLPAMEYQQRVLRKPAQDCSAYTLSFDTTVFIESTRQRVAV  
EATLENRGENAYSTVLNISQSANLQFASLIQKEDSDGSIECVNEERRLQKQVCNVSYPFF  
RAKAKVAFRLDFEFKSIFLHLEIELAAGSDSNERDSTKEDNVAPLRFHLKYEADVLT  
RSSSLSHYEVKPNSSLERYDGIGPPFSCIFRIQNLGLFPIHGMMKITIPIATRSGNRLL  
KLRDFLTDEANTSCNIWGNSTEYRPTVEEDLRRAPQLNHSNSDVVSINCNI RLVPNQEI  
NFHLLGNLWLRSLKALKYKSMKIMVNAALQRQFHSPFIFREEDPSRQIVFEISKQEDWQV  
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>sp|P18084|ITB5\_HUMAN Integrin beta-5 OS=Homo sapiens GN=ITGB5 PE=1 SV=1

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GDKTTFQLQVRQVEDYPVDLYYLDLSLSMKDDLNI RSLGTLAEEMRKLTSNFRLGFG  
SFVDKDISPFSYTAPRYQTNPCIGYKLPNCVPSFGFRHLLPLTDRVDSFNEEVRKQSVS  
RNRDAPEGGFDAVLQAACVKEKIGWRKDALHLLVFTTDDVPHIALDGKLGGLVQPHDGGC  
HLNEANEYTASNQMDYPSLALLGEKLAENNINLIFAVTKNHMYLYKNFTALIPGTTVEIL  
DGDSKNI IQLIINAYNSIRSKVELSVWDQPEDLNLFFTATCQDGVSYPGQRKCEGLKIGD  
TASFEVSLEARSCPSRHTHEVFA LRVPVGF RDSLEVGVTYNCTCGCSVGLEPNSARCN GSG  
TYVCGLCCECPGYLGRCECQDGENQSVYQNLCREAEGKPLCSGRGDCSCNQCSCFESEF  
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CRDEVITWVDTIWKDDQEA VL CFYKTAKDCVMMFTYVELPSGKSNLTVLREPECGNTPNA  
MTILLAVVGSILLVGLALLAIWKL LVTIHDRREFAKFQSERSRARYEMASNPLYRKPIST  
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>sp|P26010|ITB7\_HUMAN Integrin beta-7 OS=Homo sapiens GN=ITGB7 PE=1 SV=1

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AFEREVGRQSVSGNLDSPEGGFDAILQAALCQEQIGWRNVSRLLVFTSDDTFHTAGDGKL  
GGIFMPSDGHCHLDSNGLYSRSTEFDYPVSGQVAQALSAANIQPIFAV TSAALPVYQELS  
KLIPKSAVGELSEDSSNVVQLIMDAYNSLSSTVLEHSSLPPGVHISYESQCEGPEKREG  
KAEDRGQCNHVRINQTVTFWVSLQATHCLPEPHLLRLRALGFSEELIVELHTLDCNCSD  
TQPQAPHCSDGQGHLCQGVCSAPGRLGRLCECSVAELSSPDLESGCRAPNGTGPLCSGK  
GHCQCGRCSCSGQSSGHLCECDDASCERHEGILCGGFGRCCQGVCHCHANRTGRACECSG  
DMDSCISPEGGLCSGHGRCKNRCQCLDGYYGALCDQCPGCKTPCERHRDCAECGAFRTG  
PLATNCSTACAHTNVTALAPILDDGWCKERTLDNQLFFFLVEDDARGTVVLRVRPQEKG  
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>sp|P26012|ITB8\_HUMAN Integrin beta-8 OS=Homo sapiens GN=ITGB8 PE=2 SV=1

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GEVSIQLRPGAEANFMLKVHPLKKYPVDLYYLVDSASMHNNIEKLNSVGNLDSRKMAFF  
SRDFRLGFGSYVDKTVSPYISIHPERIHNQCSDYNLDCMPPHGYIHVLSLTENITEFEKA  
VHRQKISGNIDTPEGGFDAMLQAAVCESHIGWRKEAKRLLLVMTDQTSHLALDSKLAGIV  
VPNDGNCHLKNNVYVKSTTMEHPSLGQLSEKLIDNNINVI FAVQGKQFHWYKDLLPLLPG  
TIAGEIESKAANLNLVVEAYQKLISEVKVQVENQVQGIYFNITAICPDGSRKPGMEGCR  
NVTSNDEVLFNVTVMKKCDVTGGKNYAI IKPIGFNETAKIHIHRNCSCQCEDNRGPKGK  
CVDETFLDSKCFQCDENKCHFDEQFSSSECKSHKDPVCSGRGVCCGKCSCHKIKLGK  
VYGKYCEKDDFSCPHYHGNLCAGHGECEAGRCQCFSGWEGDRCQCPASAAQHCVNSKGQV  
CSGRGTCVGRCECTDPRS IGRFCEHCPTCYTACKENWNCMQCLHPHNLSQAILDQCKTS  
CALMEQQHYVDQTSECFSSPSYLRIFFI IFIVTFLIGLLKVLII RQVILQWNSNLIKSSS  
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>sp|P15884|ITF2\_HUMAN Transcription factor 4 OS=Homo sapiens GN=TCF4 PE=1 SV=3

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CHQQSLLGGDMDMGNGTLPSTKPGSQYYQYSSNNPRRRPLHSSAMEVQTKKVRKVPPGL  
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MLGNSSHIPQSSSYCSLHPHERLSYPSHSSADINSSLPPMSTFHRSGTNHYSTSSCTPPA  
NGTDSIMANRSGAAGSSQTGDALGKALASIYSPDHTNNSFSSNPSTPVGSPPSLSAGTA  
VWSRNGGQASSPNYEGPLHSLQSRIEDRLERLDDAIHVLNRHAVGPSTAMPGGHGMHG  
IIGPSHNGAMGLSGYGTGLLSANRHSLMVGTHREDGVALRGSHSLLPNQVPVPQLPVQ  
SATSPDLNPPQDPYRGMPPGLQGQSVSSGSSEIKSDDEGDENLQDTKSSEDKKLDDDKD  
IKSITSNNDDEDLTPEQKAEREKERRMANNARERLRVRDINEAFKELGRMVQLHLKSDKP  
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>sp|P19827|ITIH1\_HUMAN Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens  
GN=ITIH1 PE=1 SV=3

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KQYRKAASIGENAGLVRASGRTEQFTIHLTVNPQSKVTFQLTYEEVLKRNHMQYEIVIK  
VKPKQLVHHFEIDVDIFEPQGISKLDAQASFLPKELAAQTIKKSFSGKKGHVLFRTVSQ  
QQSCPTCSTSLNHFVKTVDVSRDKICDLLVANNHFAHFFAPQNLTMNKNVVFVIDIS  
GSMRGQKVKQTKALLKILGDMQPGDYFDLVLFGTRVQSWKGSVLQASEANLQAAQDFVR  
GFSLDEATNLNGLLRGIEILNQVESLPELSNHASILIMLTDGDPTEGVTDRSILKNV  
RNAIRGRFPLYNLGFGHNVDNFLEVMSMENNGRAQRIYEDHDATQQLQGFYSQVAKPLL  
VDVDLQYPQDAVLALTQNHKKYYEGSEIVVAGRIADNKQSSFKADVQAHGEGQEFSTC  
LVDEEEMKKLLRERGHMLNHNVERLWAYLTIQELLAKRMKVDREERANLSSQALQMSLDY  
GFVTPLTSMIRGMADQDGLKPTIDKPSDSPPLEMLGPRRTFVLSALQPSPTHSSSNTQ  
RLPDRVTGVDTPHFIIHVPQKEDTLCFNINEEPGVILSLVQDPNTGFSVNGQLIGNKAR  
SPGQHDGTYFGRGLIANPATDFQLEVTPQNITLNPFGGPPVFSWRDQAVLRQDGVVVTIN  
KKRNLVSVDDGGTFEVVLHRVWKGSSVHQDFLGFYVLDSHRMSARTHGLLGQFFHPIGF

EVSDIHPGSDPTKPDATMVVRNRRLTVTRGLQKDYSKDPWHGAEVSCWFIHNNAGLIDG  
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>sp|Q06033|ITI3\_HUMAN Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens  
GN=ITI3 PE=1 SV=2

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DSLLNGDFTITYDVNRESPGNVQIVNGYFVHFFAPQGLPVVPKNVAFVIDISGSMAGRKL  
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KALQERDYIFGNYYERLWAYLTIEQLLEKRKNAGHEEKENLTARALDSLKYHFVTPPTS  
MVTTPEDNEDERAIADKPGDAEATPVSPAMSYLTSYQPPQNPYYVVDGDPHFIIQIPE  
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VWKKHPVHRDFLGFYVVDSHRMSAQTHGLLGQFFQPFDFKVSDIRPGSDPTKPDATLVVK  
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>sp|O60674|JAK2\_HUMAN Tyrosine-protein kinase JAK2 OS=Homo sapiens GN=JAK2 PE=1 SV=2

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PRWYCSGSNRAYRHGISRGAEAPLLDDFVMSYLFAQWRHDFVHGWIQVPVTHETQEECLG  
MAVLDMMRIAKENDQTPLAIYNSISYKTFPLPKIRAKIQDYHILTRKIRYRFRRFIQQF  
SQCKATARNLKLKYLINLETLSAFYTEKFEVKEPGSGPSGEEIFATIIITGNNGIQWSR  
GKHKESETLTEQDLQLYCDFPNIIDVSIKQANQEGSNESRVVTIHKQDGKNLEIELSSLR  
EALSFVSLIDGYRLTADAHHYLCKEVAPPAVLENIQSNCHGPISMDFAISKLLKAGNQT  
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YAPESLTESKFSVASDVWSFGVLYELFTYIEKSKSPPAEFMRMIGNDKQGQMIVFHLIE  
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>sp|Q92833|JARID2\_HUMAN Protein Jumonji OS=Homo sapiens GN=JARID2 PE=1 SV=2

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KPNHHKPSSAVNHTISGKTESSNAKTRKQVLSLGGASKSTGPAVNGLVSGRLNPKSCTK  
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LNGHVKK EVPERSLERNRPKRATAGKSTPGRQAHGKADSASCENRSTSQPESVHKPQDSG  
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QLKTGRRRLFAQEKEVVK EEEEEKGV LND FHKCIYKGRSVSLTTFYRTARNIMSMCF SKE  
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SILRHLGAVPGVTIPWLNIGMVFTSCWSRDQNHLPYIDYLHTGADCIWYCIPAE EENKL  
EDVVHTLLQANGTPGLQMLESNVMISPEVLCKEGIKVHRTVQQSGQFVVC FPGSFVSKVC  
CGYSVSETVHFATTQWTSMGFETAKEMKRRHIAKPF S MEKLLYQIAQAEAKKENGPTLST  
ISALLDEL RDTELRRRQLFEAGLHSSARYGSHDGSSTVADGKKKPRKWLQLET SERRCQ  
ICQHLCYLSMVVQENENVVFCLECALRHVEKQKSCRGLKLMYRYDEEQIISLVNQICGKV  
SGKNGSIENCLSKPTPKRGRPRKRATVDVPPSRLSASSSSKSASSSS

>sp|075564|JERKY\_HUMAN Jerky protein homolog OS=Homo sapiens GN=JRK PE=1 SV=2

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GPMLIEKAKDFYEQMLTEPCVFSGGWLWRFKARHG IKKLDASSEKQSADHQA AEQFCAF  
FRSLAAEHGLSAEQVYNADETGLFWRCLPNPTPEGGAVPGPKQ GKDRLTVLMCANATGSH  
RLKPLAIGKCSGPRAF KGIQHLPVAYKAQGN AWDKEIFSDWFHHIFVPSVREHFRTIGL  
PEDSKAVLLLDSSRAHPQEAELVSSNVFTIFLPASVASLVQPM EQGIRRDFMRNFINPPV  
PLQGPHARYNMND AIFSVACAWNAVPSHVFRRAWRK LWP SVAF AEGSS EEELEAECFPV  
KPHNKSFAHILELVKEGSSCPGQLRQRQAASWG VAGREAEGRPPAATSPA EVVWSSEKT  
PKADQDGRGDPGE EEAWEQA AVAFDAVL RFAERQPCFSAQEVGQLRALRAVFRSQQQV  
RRRRGALGAVVKVEALQEGPGGCGATAQSPLPCSSTAGDN

>sp|Q9UPT6|JIP3\_HUMAN C-Jun-amino-terminal kinase-interacting protein 3 OS=Homo sapiens  
GN=MAPK8IP3 PE=1 SV=3

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NVLENLDSV LSENQEHEVELELLREDNEQLLTQYEREKALRRQAEEKFIEFEDALEQEKK  
ELQIQVEHYEFQTRQLELKAKNYADQISRLEERESEM KKEYNALHQRHTEMIQTYVEHIE  
RSKMQQVGGNSQTESSLPGRRKERPTSLNVFPLADGTVRAQIGGKLVPAGDHWHLSDLGQ  
LQSSSSYQCPQDEMSESGSSAAATPSTTGTSNTPTSSVPSAAVTPLNESLQPLGDYGV  
GSKNSKRAREKRDSRNMEVQVTQEMRNVSIGMGSSDEWSDVQDIIDSTPELDMCPETRLD  
RTGSSPTQGIVNKA FGINTDSL YHELSTAGSEVIGDVDEGADLLGEFSVRDDFFGMGKEV  
GNLLENSQLLETKNALNVVKNDLIAKVDQLSGEQEVL RGELEAAKQAKVKLENRIKELE  
EELKRVKSEAI IARREPKEEAEDVSSYLCTESDKIPMAQRRRFRVEMARVLMERNQYKE  
RLMELQEAVRWTEMIRASREHPSVQEKKKSTIWQFFSRLFSSSSSPPPAKRPYPSVNIHY  
KSPTTAGFSQRRNHAMCPI SAGSRPLEFFPDD DCTSSARREQKREQYRQVREHVRND DGR  
LQACGWSLPAKYKQLSPNGGQEDTRMKNVPVPVYCRPLVEKDPTMKLWCAAGVNLSGWRP  
NEDDAGNGVKPAPGRDPLTCDREGDGEPKSAHTSPEKKKAKELPEMDATSSRVWILTSTL  
TTSKVVIIDANQPGTVVDQFTVCNAHVLCISSIPAASDSYPPGEMFLDSVDN PEDPGAD  
GVLAGITLVGCATRCNVPRSNCSRGDTPVLDKGQGEVATIANGKVNPSQSTEEATEATE

VPDPGPSEPETATLRPGPLTEHVFTDPAPTSSGPQPGSENGPEPDSSSTRPEPEPSGDP  
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LAIFHRGEDGQWDLSNYHMLDLGHPHHSIRCMVVYDRVWCGYKNKVHVIQPKTMQIEKS  
FDAHPRRESQVRQLAWIGDGVVWSIRLDSTLRLYHAHTHQHLQDVDIEPYVSKMLGTGKL  
GFSFVRITALLVAGSRLWVGTNGGVVISIPLTETTVLHRGQLGLRANKTSPTSSEGARP  
GGIIHVYGDSSDRAASSFIPYCSMAQAQLCFHGHRDAVKFFVSVPGNVLATLNGSVLDS  
PAEGPGPAAPASEVEGQKLNRNVVLSSGGEGYIDFRIGDGEDDETEEGAGDMSQVKPVLSK  
AERSHIIVWQVSYTPE

>sp|Q8N9B5|JMY\_HUMAN Junction-mediating and -regulatory protein OS=Homo sapiens GN=JMY  
PE=1 SV=2

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SLLGDPRLRSPGSKGAESRLRSPVRAKPIPGQKTSEADDAAGAAAAAARPAAREAQVSSV  
RIVSASGTVSEEIEVLEMKEDAEPLALSDAEQPPATELESPAEECSWAGLFSFQDLRA  
VHQQLCVNSQLEPCLPVFPPEPSGMWTVLFGGAPEMTEQEIDTLCYQLQVYLGHGLDTC  
GWKILSQVLFTETDDPEEYYESLSELRQKGYYEVLQRARKRIQELLDKHKNTESMVELL  
LYQMEDEAYSSLAETTELYQYLLQPFRDMRELAMLRRQKIKISMENDYLGPRRIESLQK  
EDADWQRKAHMAVLSIQDLTVKYFEITAKAQKAVYDRMRADQKKFGKASWAAAERMEKL  
QYAVSKETLQMMRAKEICLEQRKHALKEEMQSLRGGTEAIARLDQLEADYYDLQLQLYEV  
QFEILKCEELLLTAQLESIKRLISEKRDEVVYDYTESMEAMLEKEEMAASAYLQREELQ  
KLQQKARQLEARRGRVSARKSYLRNKKEICIAKHNEKIQQRTRIEDEYRTHHTVQLKREK  
LHDEERKSAWVSQERQRTLDRLTRFKQRYPGQVILKSTRRLAHARRKGAASPVQLQEDH  
CDSLPSVLQVEEKTEEVGEGRVKRGPSQTTEPQSLVQLEDTSLTQLEATSLPLSGVTSEL  
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LPRKEGNEKRIPKSASAPSAHLFDSSQLVSARKKLKTAEGLRQRRVSSPMDEVLASLKR  
GSFHLKKVEQRTLPPFPDEDDSNILAQIRKGVKLKKVQKDVLRRESFTLLPDTDPLTRS  
HEALRRIKEASPESEDEEEALPCTDWEN

>sp|Q8TAC2|JOS2\_HUMAN Josephin-2 OS=Homo sapiens GN=JOSD2 PE=1 SV=1

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SLLGTGNYDVNIMAALQGLGLAAVWDRRRPLSQLALPQVLGLILNLPSPVSLGLSLP  
LRRRHVVALRQVDGVYNNLDSKLRAPEALGDEDGVRAFLAAALAQGLCEVLLVVTKEVEE  
KGSWLRTD

>sp|P17275|JUNB\_HUMAN Transcription factor jun-B OS=Homo sapiens GN=JUNB PE=1 SV=1

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGP  
EGGGGGSYFSGQSDTGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGSGGG  
AGGAGGGVTEEQEGFADGFVKALDDLHKMNHVTPPNVSLGATGGPPAGPGGVYAGPEPPP  
VYTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGGHPAQLGLGRGASTFK  
EEPQTVPERSRDATPPVSPINMEDQERIKVERKRLRNLAATKCRKRKLRIARLEDKV  
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>sp|Q15053|K0040\_HUMAN Uncharacterized protein KIAA0040 OS=Homo sapiens GN=KIAA0040 PE=1  
SV=1

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WHTPHAKHKEHLSIHLNMVPKCVHMHVTHHTNSGSRVYVKYILLIKWSLAMYFVQGSTL  
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>sp|Q5VV43|K0319\_HUMAN Dyslexia-associated protein KIAA0319 OS=Homo sapiens GN=KIAA0319 PE=1 SV=1

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LNRGSPSGIWGDSPEDIRKDLTFLGKDWGLEEMSEYSDDYRELEKDLLQPSGKQEPGSA  
EYTDWGLLPGSEGAFFSSVGDSPAVPAETQQDPELHYLNESASTPAPKLPERSVLLPLPT  
TPSSGEVLEKEKASQLQEQQSSNSSGKEVLMPSHSLPPASLELSSVTVEKSPVLTVPGST  
EHSIPTPPTSAAPSESTPSELISPTTAPRTVKELTVSAGDNLIIITLPDNEVELKAFVAP  
APPVETTYNYEWNLISHPTDYQGEIKQGHKQTLNLSQLSVGLYVFKVTVSSENAFGEFV  
NVTVKPARRVNLPPAVVSPQLQELTLPLTSALIDGSQSTDDTEIVSYHWEEINGPFIEE  
KTSVDSPLRLSNLDPGNYSFRLTVTDSGATNSTTAALIVNNAVDYPPVANAGPNHTIT  
LPQNSITLNGNQSSDDHQIVLYEWSLGPGEKHHVVMQGVQTPYLHLSAMQEGDYTFQLK  
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LVEGVYTFHLRVTDSSQASDSTDATVEVQPDPRKSGLVELTLQVGVGQLTEQRKDTLVRQ  
LAVLLNVLDSDIKVQKIRAHSDLSTVIVFYVQSRPPFKVLKAAEVARNLHMRLSKEKADF  
LLFKVLRVDTAGCLLKCSGHGHCPLTKRCICSHLWMENLIQRYIWDGESNCEWSIFYVT  
VLAFTLIVLTGGFTWLCICCCKRQKRTKIRKKTKYTILDNMDEQERMELRPKYGIKHRST  
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>sp|Q9UPX6|K1024\_HUMAN UPF0258 protein KIAA1024 OS=Homo sapiens GN=KIAA1024 PE=2 SV=3

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SCRSDTEICNAACEPLNCELSERSFSRGYPISRQSSKCRKMDCKDCPQFVPASEPNFLG  
VSKEVKNRAASLDRLQALAPYSVTSPQPCQMRTYFPMNIENESISDQDSLPIINQSIKET  
FISNEEPFVVQSCVQKRNIKFEDFHNLMVSPSLVGPISKAENEHREPQSRKEPHKPPFF  
NHSFEMPYNQYLNPVYSPVPDKRRRAKHESLDDLQASTYFGPTPVMGTQEARRCLGKPNK  
QTPWPAKSWSLNTEEVPDFERSFFNRNPSEEKLHYPNASSQTPNFPAPERRPITYLVPKDQ  
QPILPIAYAAKQNGLSKEISSPVLEKHEPVKKFKDKSINCTSGQLSSDTSVGTQTEH  
VLEPKKCRDLCTSGQGKYSRHTMKHSDDDSEIVSDDISDIFRFLDDMSISGSTGVIQSS  
CYNSTGSLSQLHKSDCDSSPEHNLTKIANGVPNSKGDGKNRPENTHHSEEELKTSVCKLV  
LRIGEIERKLESLSGVRDEISQVLGKLNKLDQKMQQPEKVSQIDLNSLTSEGPSDDSAS  
PRMFHAHSGSHGPKLENNPDWCCSDASGSNSESRLVKALKKSLFTRPSSRSLTEENSATE  
SKIASISNSPRDWRITITYTNRVGLNEEEIKDGTGPGDNKDWHRKSKEADRQYDIPPQHRLP  
KQPKDGFLEQVFSHPYPASLKAHMKSNPLYTDMRLTELAEVKRGQPSWTIEEYARNAG  
DKGKLTALDLQTQESLNPNNLEYWMEDIYTPGYDSLLKRKEAFRRRAKVCKIAALIAAAA  
CTVILVIVVPICTMKS

>sp|Q6ZU35|K1211\_HUMAN Uncharacterized protein KIAA1211 OS=Homo sapiens GN=KIAA1211 PE=1 SV=3

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PVKPSRPKRHFSSAGTIESVNLDAIPLAIARLDNSAAKHLAVKPKKQRVSKHRRLAQD  
PQHEQGGLSRPCLDQNGHPGEDKPTWHEEENPLDSEEERRRQEDYWRELEAKCKRQKA  
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EDAERREREERERLEAEEERRRLQAQAQAEERRRLEEDARLEERRRQEEEEGRCAEELKR  
QEEEEEAGWEELEQQEAEVQGPPEALEETGEGRRGAEEEDLGEEEEGQAHLEDWRGQLS  
ELLNDFEERLEDQERLKPGEQREHSEEPGICEEQNPEAERRREQQGRSGDFQGADRPGE  
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IMPAWQKFSDDGTETSKQSTEAEIRKRPMLGPSEETAPQPPPAGVRELKGKPEKSEMR  
EPADTTEGCKFAKDLPSFLVPSLPYPQKVVAHTEFTTSSDSETANGIAKPDVMPGGEE  
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KHGSPLPQERKQAPSTRDSPAESSRSVPVAHPGPPPASSQTPAPEHDKAANKMPLAQK  
PALAPKPTSQTPPASPLSKLSRPYVELLSRRAGRPDPEPSEPSKEDQESSDRRPPSPPG  
PEERKGGKRDEEEEATERKPASPLPATQQEKPSQTPEAGRKEKPMQLSRHSLDGSKLTE  
KVETAQPLWITLALQKQKGFREQQATREERKQAREAKQAEKLSKENVSVSVPQSSSVSR  
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>sp|Q9P272|K1456\_HUMAN Probable tRNA methyltransferase 9-like protein OS=Homo sapiens  
GN=KIAA1456 PE=2 SV=3

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VNSQVHTVGCDCYGLVEIARNRGCEAMVCDNLNLPFRDEGFDIISIGVIHHFSTKQRR  
IRAIKEMARVLVPGGQLMIYVWAMEQKNRHFQKQDVLVPWNRALCSQLFSESSQSGRKRQ  
CGYPERGHPYHPPCSECSVCFEKQCGSKRSHSVGYEPAMARTCFANISKEGEEYGFY  
STLGKSFRRSWFFSRSLDESTLRKQIERVRPLKNTEVWASSTVTVQPSRHSSLDLFDHQEPF  
STKGQSLDEEVFVESSSGKHLEWLRAPGTLKHLNGDHQGMRRNGGNFLDSTNTGVNCV  
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>sp|Q9HMC3|K1549\_HUMAN UPF0606 protein KIAA1549 OS=Homo sapiens GN=KIAA1549 PE=1 SV=4

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AFFNQKQKTKSTADPSIFVATYVSVTSKEVAVNDEMDFLPDTHWTTPRMVSPIQYITV  
SPPGLPREALEPMLTPSLPMVSLQDEEVTSGWQNTTRQPAAYAESASHFHTFRSAFRTSE  
GIVPTPGRNLVLVPTDAYSHLSSRTLPEIVASLTEGVETTLFLSSRLMPQPLGDGITIP  
LPSLGEVSQPPEEVWATSADRYTDVTTVLSQSLEETISPRTYPTVTASHAALAFSRTHSP  
LLSTPLAFASSASPTDVSSNPFLPSDSSKSELHSNSALPGPVDNTHILSPVSSFRPYTW  
CAACTVPSPQQVLATSLMEKDVSGDGAETLCMTVLEESSISLMSSVVADFSEFEEDPQV  
FNTLFPSRPVPLSSRSMEISETSVGISAEVDMSSVTTTQVPPAHGRLSVPASLDPTAGS  
LSVAETQVTPSSVTTAFFSVITSILLDSSFSVIANKNTPSLAVRDPSVFTPYSLVPSVES  
SLFSDQERSSFSEHKPRGALDFASSFFSTPPELSGSISSPSEAPASLSLMPSDLSPFTS  
QSFSPLVETFTLFDSSDLQSSQLSLPSSTNLEFSQLQPSELPLNTIMLLPSRSEVSPWS  
SFPSDSLEFVEASTVSLTDSEAHFTSAFIETTSYLESSLISHESAVTALVPPGSESFIL  
TAGIQATSPLTTVHTTPILESSLFSTLTPDDQISALDGHVSVLASFSKAIPTGTVLIT  
DAYLPSGSSSFVSEATPFPLPTLTVVGPSLTPTEVPLNTSTEVSTTSTGAATGGPLDSTL  
MGDAASQSPPESSAAPPLSLRPVTAFTLEATVDTPTLATAKPPYVCDITVPDAYLITTV  
LARRAVQEYIITAIKEVLRIHFNRVELKVYELFTDFTFLVTSGPFVYTAISVINVLINS

KLVRDQTPLILSVKPSFLVPESRFQVQTVLQFVPPSVDTGFCNFTQRIEKGMLTALFEVR  
KHHQGTYNLTVQILNITISSSRVTPRRGPVNIIFAVKSTQGFLNGSEVSELLRNLSVVEF  
SFYLGYPVLQIAEPFQYPQLNLSQLLKSSWVRTVLLGVMEKQLQNEVFQAEMERKLAQLL  
SEVSTRRRMWRRATVAAGNSVVQVNVSRLEGDDNPVQLIYFVEDQDGERLSAVKSSDLI  
NKMDLQRAAIIILGYRIQGVIAQPVDRVKRPSPESSQNNLWVIVGVVIVLVVMVIVVILY  
WKL CRTDKLDFQPD TVANIQQRQKLQIPSVKGFDFAKQHLGQH NKDDILIIHEPAPLPGP  
LKDH TTPSENGDVPSPKSKIPSKNVRHRGRVSPSADSTVSEESSERDAGDKTPGAVNDG  
RSHRAPQSGPPLPSSGNEQHSSASIFEHVDRISRPEASRRVPSKIQLIAMQPIAPPVQ  
RPSPADRVAESNKINKEIQTALRHKSEIEHHRNKIRLAKRRRGHYEFPVDDLSSGDTKE  
RHRVYRRAQM QIDKILDPTASVPSVFI EPRKSSRIKRS PKPRRKHQVNGCPADA EKDRLI  
TTDS DGTYYRPPGVHNSAYIGCPSPDLPADVQTPSSVELGRYPALPFPASQYIPQPSI  
EEARQTMHSLDDAFALVAPSSQPA TAGVGPVPPGLPANSTPSQEERRATQWGSFYSP  
AQTANNPCSR YEDYGMTPTGPLPRPGFGPGLLQSTELVPPDPQQPQASAEAPFAARGIY  
SEEMPSVARPRPVGGTTGSQIQHLTQVG IASRIGAQPVEIPPSRGSQYGGPGWPSYGEDE  
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>sp|Q96PY0|K1908\_HUMAN Putative uncharacterized protein PSMG3-AS1 OS=Homo sapiens  
GN=PSMG3-AS1 PE=5 SV=2

MMDCTWTLPGMRATWQPAPFLPWDQTPWRVSFSWSPVLLAWGGVWSGEAHPCAHLRPPA  
SPCPRPRRRGCGDSGSSGMAQRAQAGSNQSRGKCGRDGRCPPRSSPGAPEAAERVESAET  
RGPGKSWILSPSSMSEPRRGKARRSPGRRRHPHSSFPQASSPSSPSRRETIPQVQSSGVP  
GAMSPEQTLFSRSPRGLSHLGQSLCRTVKESEAQRGKTMPPGSHSPSGAGQGRTARKGPA  
REEIPSSDSSAKPSVYPHPLTAT

>sp|Q7Z3Y7|K1C28\_HUMAN Keratin, type I cytoskeletal 28 OS=Homo sapiens GN=KRT28 PE=1 SV=2

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WYEKYGPGSCRGLDHDYSRYHLTIEDLKNKIISSTTTNANVILQIDNARLAADDFRLKYE  
NELTLHQNV EADINGLRRLDELTL CRTDQELQYESLSEEMTYLKKNH EEMKALQCAAG  
GNVNVEMNAAPGVDLAVLLNNMRAEYEALAEQNRKDAEAWFNEKSASLQQQISHDSGAAT  
FARSQ LTEMRR TLQTL EIQ LQSLMATKHSLECSLTETESNYCTQLAQIQAQIGALEEQLH  
QVRTETEGQKLEYEHL LDVKVHLEKEIETYCRLIDGDGNSCSKSKGFGSGSPGNSSKDLS  
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>sp|P35527|K1C9\_HUMAN Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3

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GGFGGGYGSGFGGFGGFGGAGGGDGGILTANEKSTMQELNSRLASYLDKVQALEEANND  
LENKI QDWYDKKGPAAIQKNYSPYNTIDDLKDQIVDLTVGNNTLLDIDNTRMTLDDFR  
IKFEMEQLNRQGV DADINGLRQVLDNLTMEKSDLEMQYETLQEELMALKKNHKEEMSQLT  
GQNSGDVNVEINVAPGDLTKTLNDMRQEYEQLI AKNRKDIENQYETQITQIEHEVSSSG  
QEVQSSAKEVTQLRHGVQELEIELQSQLSKAALEKSLEDTKNRYCGQLQMIQE QISNLE  
AQITDVRQEIECQNEYSLLLSIKMRLEKEIETYHN LLEGGQEDFESSGAGKIGLGGRGG  
SGGSYGRGSRGGSGGSYGGGSGGGSGRGGSGGSYGGGSGGGSGGGYGGGSGG  
GHSGSGGGHSGSGGNYGGGSGSGGSGGGYGGGSGRGGSGGSHGGSGFGGESGGSY  
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>sp|Q13555|KCC2G\_HUMAN Calcium/calmodulin-dependent protein kinase type II subunit gamma  
OS=Homo sapiens GN=CAMK2G PE=1 SV=3

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EARICRLLKHPNIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCIHQI  
LESVNHIIHQHDIVHRDLKPENLLASKCKGAAVKLADFGLAIEVQGEQQAWFAGTPGY  
LSPEVLRKDPYGKPVDIWACGVILYILLVGYPFWDEDQHKLYQQIKAGAYDFPSPEWDT  
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KGAILTTMLVSRNFSAAKSLNKKSDGGVKKRKSSSSVHLMPQSNKNLSLVSPAQEPAPL  
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CSSAMRKQEI IKITEQLIEAINNGDFEAYTKICDPGLTSFEPEALGNLVEGMDFHKFYFE  
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>sp|Q16566|KCC4\_HUMAN Calcium/calmodulin-dependent protein kinase type IV OS=Homo sapiens  
GN=CAMK4 PE=1 SV=1

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LKIADFGLSKIVEHQVLMKTVCGTPGYCAPEILRGCAYGPEVDMWSVGIIITYILLCGFEP  
FYDERGDQFMFRRILNCEYYFISPWWDEVSLNAKDLVRKLIVLDPKKRLTTFQALQHPWV  
TGKAANFVHMDTAQKKLQEFNARRKLKAAVKAVVASSRLGSASSSHGSIQESHKASRDPS  
PIQDGNEDMKAIPEGEKIQGDGAQAAVKAQAEMLKVQALEKVKGADINAEAPKMPVKA  
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>sp|Q68DU8|KCD16\_HUMAN BTB/POZ domain-containing protein KCTD16 OS=Homo sapiens GN=KCTD16  
PE=1 SV=1

MALSGNCSRYYPREGQSAVPNSFPEVVVELNVGGQVYFTRHSTLISIPHSLLWKMFSPKRD  
TANDLAKDSKGRFFIDRDGFLFRYILDYLRDRQVVLDPHFPEKGRLKREAEYFQLPDLVK  
LLTPDEIKQSPDEFCHSDFEDASQGS DTRICPPSSLLPADRKWGFITVGYRG SCTLGREG  
QADAKFRRVPRILVCGRISLAKEVFGETL NESRDPDRAPER YTSRFYLFKHLERAFDML  
SECGFHMVACNSSVTASFINQYTD DKIWSSYTEYVFYREPSRWSPSHDCCCKNGKGDKE  
GESGTSCNDLSTSSCDSQSEASSPQETVICGPVTRQTNITLDRPIKKGPVQLIQQSEMR  
RKSDLLRTLTS GSRESNMSSKKKAVKEKLSIEEELEKCIQDFLKIKIPDRFPERKHPWQS  
ELLRKYHL

>sp|Q17RG1|KCD19\_HUMAN BTB/POZ domain-containing protein KCTD19 OS=Homo sapiens GN=KCTD19  
PE=2 SV=1

MEESGMAHESAEDLFHFNVGGWHFSVPRSKLSQFPDSLLWKEASALTSSSQRLFIDRDG  
STFRHVHYLYTSKLSFSSCAELNLLYEQALGLQLMPLLQTL DNLKEGKHHLRVRPADLP  
VAERASLN YWRTWK CISKPSEFP IKSPAFTGLHDKAPLGLMDTPLDTEEEVHYCFLPLD  
LVAKYPSLVTEDNLLWLAETVALIECECSEFRFIVNFLRSQKILLPDNFSNIDVLEAEVE  
ILEIPALTEAVRWYRMNMGCSPTTCSPLSPGKGARTASLESVKPLYTMALGLLVKYPDS  
ALGQLRIESTLDGSRLYITGNVLFQHVKNWLGTCRLPLTETISEVYELCAFLDKRDITY  
EPIKVALKTHLEPRTLAPMDVLNEWTAEITVYSPQQIIKVYVGS HWYATTLQTLLKYPEL  
LSNPQRVYWITYGQTLIIHGDGQMF RHILNFLRLGKFLPSEFKEWPLFCQEVEEYHIPS  
LSEALAQCEAYKSWTQEKESENEEAFSIRRLHV VTEGPGSLVEFSRDTKET TAYMPVDFE  
DCSDRTPWNKAKGNLVRSNQMDAEQYTRPIQVSLCRNAKRAGNPSTYSHCRGLCTNPGH



WGSHPESPPKKCTTINLTQKSETKDPPATPMQKLISLVREWDMVNCKQWEFQPLTATRS  
SPLEEATLQLPLGSEAAQSTSAAWKAHSTASEKDPGPQAGAGAGAKDKGPEPTFKPYL  
PPKRAGTLKDWKQRTKERESPAPEQPLPEASEVDSLGVILKVTHPPVVGSDGFCMFED  
SIIYTTEMDNLRHTTPTASPQPEVTFLSFSLWEEMFYAQKCHCFLADIIMDSIRQKDP  
KAITAKVVSLANRLWTLHISPKQFVVDLLAITGFKDDRHTQERLYSWVELTLPFARKYGR  
CMDLLIQRGLSRVSYSILGKYLQED

>sp|060928|KCJ13\_HUMAN Inward rectifier potassium channel 13 OS=Homo sapiens GN=KCNJ13  
PE=1 SV=1

MDSSNCKVIAPLLSQRYRRMVKDGHSTLQMDGAQRGLAYLRDAWGILMDMRWRWMLVF  
SASFVVHVLVFAVLWYVLAEMNGDLELDHDAPPENHTICVKYITSFTAAFSFSLETQLTI  
GYGTMFPSGDCPSAIALLAIQMLLGLMLEAFITGAFVAKIARPKNRAFSIRFTDTAVVAH  
MDGKPNLIFQVANTRPSPLTSVRVSAVLYQERENGKLYQTSVDFHLDGISSDECPFFIFP  
LTYHHSITPSSPLATLLQHENPSHFELVVFLSAMQEGTGEICQRRTSYLPSEIMLHHCFA  
SLLTRGSKGEYQIKMENFDKTVPEFPTPLVSKSPNRTDLDIHINGQSIDNFQISETGLTE

>sp|Q9NPI9|KCJ16\_HUMAN Inward rectifier potassium channel 16 OS=Homo sapiens GN=KCNJ16  
PE=1 SV=1

MSYGYSSYHIINADAKYPGYPEHIIAEKRRARRRLLHKDGCNVYFKHIFGEWGSYVVD  
IFTTLVDTKWRHMFVIFSLSYILSWLIFGSVFWLIAFHGGDLLNDPDITPCVDNVHSFTG  
AFLFSLETQTTIGYGYRCVTEECSSAVLMVILQSILSCIINTFIIIGAALAKMATARKRAQ  
TIRFSYFALIGMRDGKLCMLWRIGDFRPNHVVEGTVRAQLLRYTEDSEGRMTMAFKDLKL  
VNDQIILVTPVTIVHEIDHESPLYALDRKAVAKDNFEILVTFIYTG DSTGTSHQSRSSYV  
PREILWGHRFNDVLEVKKYKVNCLQFEGSVEVYAPFCSAKQLDWKDQQLHIEKAPPVR  
ESCTSDTKARRRSFSAVAIVSSCENPEETTSATHEYRETPYQKALLTLNRISVESQM

>sp|B7U540|KCJ18\_HUMAN Inward rectifier potassium channel 18 OS=Homo sapiens GN=KCNJ18  
PE=1 SV=3

MTAASRANPYSIVSLEEDGLHLVTMSGANGFGNGKVHTRRRCRNRFVKKNGQCNI AFANM  
DEKSQRYLADMFTTCVDIRWRYMLLIFSLAFLASWLLFGVIFWVIAVAHGDLEPAEGHGR  
TPCVMQVHGFMAAFLFSIETQTTIGYGLRCVTEECLVAVFMVVAQSI VGCII DSFMIGAI  
MAKMARPKKRAQTLLFSHNAVVALRDGKLCMLWRVGNLRKSHIVEAHVRAQLIKPRVTEE  
GEYIPLDQIDIDVGFDKGLDRIFLVSPITILHEIDEASPLFGISRQDLETDDFEIVVILE  
GMVEATAMTTQARSSYLANEILWGHRFEPVL FEEKNQYKIDYSHFHKTYEVPSTPRCSAK  
DLVENKFLLPANSFCYENELAFLSRDEEDEADGDQDGRSRDGLSPQARHDFDRLQAGGG  
VLEQRPYRRGSEI

>sp|Q9P0J7|KCMF1\_HUMAN E3 ubiquitin-protein ligase KCMF1 OS=Homo sapiens GN=KCMF1 PE=1  
SV=2

MSRHEGVSCDACLKGNFRGRRYKCLICYDYDLCASCYESGATTTRHTTDHPMQCILTRVD  
FDLYYGGAEAFSVEQPQSFTCPYCGKMGYTETSLQEHTVSEHAETSTEVICPICAALPGGD  
PNHVTDDFAAHLTLEHRAPRDLESSGVRHVRRMFHPGRGLGGPRARRSNMHFTSSSTGG  
LSSSQSSYSPSNREAMDPPIAELLSQLSGVRRSAGGQLNSSGPSASQLQQLQMQLQLERQH  
AQAARQQL ETARNATRRNTSSVTTTITQSTATTNIANTESSQQLQNSQFLLTRLNDPK  
MSETERQSMESERADRS LFVQELLLSTLVREESSSSDEDDRGEMADFGAMGCVDIMPLDV  
ALENLNLKESNKGNEPPPPPL

>sp|P16389|KCNA2\_HUMAN Potassium voltage-gated channel subfamily A member 2 OS=Homo  
sapiens GN=KCNA2 PE=1 SV=2

MTVATGDPADAAAALPGHPQD TYDPEADHECCERVVINISGLRFETQLKTLAQFPETLLG  
DPKKRMRYFDPLRNEYFFDRNRPSFDAILYYYQSGGRLRRPVNVPLDIFSEEIRFYELGE  
EAMEMFREDEGYIKEERPLPENEFQRQVWLLFEYPRESSGPARIIAIVSVMVILISIVSF  
CLETLPFRDENEDMHGSGVTFHTYSNSTIGYQQSTSFTDPFFIVETLCIIWFSFEFLVR  
FFACPSKAGFFTINIMNIIDIVAIIPYFITLGTELA EKPEDAQGGQAMSLAILRVIRLVR  
VFRIFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEADERESQFPS  
IPDAFWWAVVSMTTVGYGDMVPTTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRE  
TEGEEQAQYLQVTSCKIPSSPDLKKSRSASTISKSDYMEIQEGVNNSNEDFREENLKTA  
NCTLANTNYVNITKMLTDV

>sp|P22459|KCNA4\_HUMAN Potassium voltage-gated channel subfamily A member 4 OS=Homo  
sapiens GN=KCNA4 PE=1 SV=2

MEVAMVSAESSGCNSHMPYGYAAQARARERERLAHSRAAAAAVAAATAAVEGSGGSGGG  
SHHHHQSRGACTSHDPQSSRGSRRRRRQRSEKKKAHYRQSSPHCSDLMPSGSEEKILRE  
LSEEEEEEEEEEEEEGRFYSEDHGDCESYTDLLPQDEGGGYSSVRYSDCCERVVI  
NVSGLRFETQMKTLAQFPETLLGDPEKRTQYFDPLRNEYFFDRNRPSFDAILYYYQSGGR  
LKRPNVVPFDIFTEEVKFYQLGEEALLKFREDEGFVREEDRALPENEFKKQIWLLFEYP  
ESSSPARGIAIVSVLVILISIVIFCLETLPFRDDRDLVMAISAGGHGGLLNDTSAPHLE  
NSGHTIFNDPFFIVETVCIVWFSFEFVVRFCACPSQALFFKNIMNIIDIVSILPYFITLG  
TDLAQQQGGGNGQQQQAMSFALRIIRLVFRIFKLSRHSKGLQILGHTLRASMRELGL  
LIFFLFIGVILFSSAVYFAEADEPTTHFQSIPDAFWWAVVTMTTVGYGDMKPITVGKIV  
GSLCAIAGVLTIALPVPVIVSNFNYFYHRETENEEQTQLTQNAVSCPYPSPNLLKKFRSS  
TSSSLGDKSEYLEMEEGVKESLCAKEEKCQKGDDSETDKNNCSNAKAVETDV

>sp|Q8TDN1|KCNG4\_HUMAN Potassium voltage-gated channel subfamily G member 4 OS=Homo  
sapiens GN=KCNG4 PE=1 SV=1

MPMPSRDGGLHPRHHYGSHPWSQLLSSPMETPSIKGLYYRRVRKVGALDASPVDLKE  
ILINVGGRRYLLPWSTLDRFPLSRLSKLRLCRSYEEIVQLCDDYDEDSQEFFFDRSPSAF  
GVIVSFLAAGKLVLLQEMCALSFQEELAYWGIEEAHLERCCLRKLLRKEELEELAKLHR  
EDVLRQQRTRRPASHSSRWGLCMNRLREMVENPQSGLPKGVFACLSILFVATTAVSLCV  
STMPDLRAEEDQGECSRKYIIFIVETICVAFWSLEFCLRFVQAQDKCQFFQGPLNIDI  
LAISPYVSLAVSEPPEDGERPSGSSYLEKVGLVLRVLRALRILYVMRLARHSLGLQTL  
GLTVRRCTREFGLLLLFLAVAITLFSPLVYVAEKESGRVLEFTSIPASYWWAIISM TVG  
YGDMVPRSPVPGQMVALLSILSGILIMAFPATSIHFTFSHSYLELKEQEQLQARLRHLQN  
TGPASECELLDPHVASEHELMNDVNDLILEGPALPIMHM

>sp|O95259|KCNH1\_HUMAN Potassium voltage-gated channel subfamily H member 1 OS=Homo  
sapiens GN=KCNH1 PE=1 SV=1

MTMAGGRRGLVAPQNTFLENIVRRSNDTNFVLGNAQIVDWPIVYSNDGFCKLSGYHRAEV  
MQKSSTCSFMYGELTDKDTIEKVRQTFENYEMNSFEILMYKKNRTPVWFFVKIAPIRNEQ  
DKVVLFLCTFSDITAFKQPIEDDSCKGWGKFARLTRALTSRGLVQLLAPSVQKGENVHK  
HSRLAEVLQLGSDILPQYKQEA PKTPPHIILHYCVFKTTWDWIILILTFYTAILVPYNVS  
FKTRQNNVAWLVDSDIVDVIFLVDIVLNFHTTFVGPAGEVISDPKLIRMNYLKTWVIDL  
LSCLPYDVINAFENVDEVS AFMGDPGKIGFADQIPPLEGRESQGISSLFSSLKVVRLLR  
LGRVARKLDHYIEYGA AVLVLVCVFGLA AHWMACIWYSIGDYEIFDEDTKTIRNNSWLY  
QLAMDIGTPYQFNGSGSGKWE GGP SKNSVYISSLYFTMTSLTSVGFGNIAPSTDIEKIFA  
VAIMMIGSLLYATIFGNVTTIFQQMYANTNRYHEMLNSVRDFLKLYQVPKGLSERVMDYI

VSTWSMRGIDTEKVLQICPKDMRADICVHLNRKVFKEHPAFRLASDGCLRALAMEFQTV  
HCAPGDLIYHAGESVDSLFCVVSGLSVLEVIQDDEVVAILGKGDVFGDVFWEATLAQSCAN  
VRALTYCDLHVIKRDALQKVLEFYTAFSHSFSRNLILTYNLRKRIVFRKISDVKREEEER  
MKRKNEAPLILPPDPVRRFLQFRQKQKEARLAAERGGRDLDDLVEKGNVLTEHASANH  
SLVKASVVTVRESPATPVVSFQAASSTSGVPDHAKLQAPGSECLGPKGGGGDCAKRKSWARE  
KDACGKSEDWNKVSKAESMETLPERTKASGEATLKKTDSKDSGITKSDLRLDNVGEARSP  
QDRSPILAEVKHSFYPIPEQTLQATVLEVRHELKEDIKALNAKMTNIEKQLSEILRILTS  
RRSSQSPQELFEISRPQSPESERDIFGAS

>sp|P63252|KCNJ2\_HUMAN Inward rectifier potassium channel 2 OS=Homo sapiens GN=KCNJ2 PE=1 SV=1

MGSVRTNRYISVSSEEDGMKLATMAVANGFGNGKSKVHTRQQCRSRFVKKDGHCVNQFIN  
VGEKGQRYLADIFTTCVDIRWRWMLVIFCLAFVLSWLFVFGVFWLIALHGDLDASKEGK  
ACVSEVNSFTAFLFSIETQTTIGYGFRCVTDECPIAVFMVVFQSIIVGCIIDAFIIGAVM  
AKMAKPKKRNETLVFSHNAVIMRDGKLCMLWRVGNLRKSHLVEAHVRAQLLKSRTSEG  
EYIPLDQIDINVGFDSGIDRIFLVSPITIVHEIDEDSPLYDLKQDIDNADFEIVVILEG  
MVEATAMTTQCRSSYLANEILWGHRYEPVLFEEKHYKVDYSRFHKTYEVPNTPLCSARD  
LAEEKYILSNANSFCYENEVALTSKEEDDSENGVPESTSTDTPPIDLHNQASVPLEPRP  
LRRESEI

>sp|P48051|KCNJ6\_HUMAN G protein-activated inward rectifier potassium channel 2 OS=Homo sapiens GN=KCNJ6 PE=1 SV=1

MAKLTESMTNVLEGDSMDQDVESPAIHQPKLPKQARDDLPRHISRDRTRKRIQRYVRKD  
GKCNVHHGNVRETYRYLTDIFTTLVDLKWRFNLLIFVMVYTVTWLFFGMIWWLIAYIRGD  
MDHIEDPSWTPCVTNLNGFVSAFLFSIETETTIGYGYRVITDKCEPIILLLIQSVLGS  
VNAFMVGCMTFVKISQPKKRAETLVFSTHAVISMRDGKLCMLFRVGDRLNSHIVEASIRAK  
LIKSKQTSEGEFIPLNQTDINVGYTGDRLFLVSPLIISHEINQQSPFWEISKAQLPKE  
ELEIVVILEGMVEATGMTQARSSYITSEILWGYRFTPVLTELDGFYEVDYNSFHETYET  
STPSLSAKELAEASRAELPLSWSVSSKLNQHALETEEEEEKNLEEQTERNGDVANLENE  
SKV

>sp|Q92806|KCNJ9\_HUMAN G protein-activated inward rectifier potassium channel 3 OS=Homo sapiens GN=KCNJ9 PE=2 SV=2

MAQENAAFSPGQEEPPRRRGRQRYVEKDGRCNVQQGNVRETYRYLTDLFTTLVDLQWRLS  
LLFFVLAYALTWLFAGIWWLIAYGRGDLEHLEDTAWTPCVNNLNGFVAAFLFSIETETT  
IGYGHRVITDQCEPIVLLLLQAILGSMVNAFMVGCMTFVKISQPNKRAATLVSSHAVVS  
LRDGRCLMFRVGDRLRSSHIVEASIRAKLIRSRQTLEGEFIPLHQTDLSVGFDTGDDRLF  
LVSPVISHEIDAASPFWEASRRALERDDFEIVVILEGMVEATGMTQARSSYLVDEVW  
GHRFTSVLTLEDGFYEVDYASFHETFEVPTPSCSARELAEEAARLDAHLYWSIPSRLDEK  
VEEGAGEGAGGEAGADKEQNGCLPPPESESKV

>sp|O00180|KCNK1\_HUMAN Potassium channel subfamily K member 1 OS=Homo sapiens GN=KCNK1 PE=1 SV=1

MLQSLAGSSCVRLVERHRSACWCFGLVLGYLLYLVFVAVVSSVELPYEDLLRQELRKLK  
RRFLEEHECLSEQQLEQFLGRVLEASNYGVSLSNASGNWNWDFTSALFFASTVLSTTGY  
GHTVPLSDGGKAFCIISVIGIPFTLLFLTAVVQRITVHVTRRPVLYFHIRWGFQVVA  
IVHAVLLGFVTVSCFFFIIPAAVSVLEDDWNFLSFYFCFISLSTIGLDYVPGEYGNQK  
FRELYKIGITCYLLGLIAMLVLETFCELHELKKFRKMFYVKKDKDEDQVHIIHDQLS

FSSITDQAAGMKEDQKQNEPFVATQSSACVDGPANH

>sp|Q9NPC2|KCNK9\_HUMAN Potassium channel subfamily K member 9 OS=Homo sapiens GN=KCNK9  
PE=1 SV=1

MKRQNVRTLSTLVCTFTYLLVGAADFDALESDHEMREEEKLKAEIRIKGKYNISSELYR  
QLELVILQSEPHRAGVQWKFGSFYFAITVITITIGYGHAAAGTDAGKAFCMFYAVLGIPL  
TLVMFQSLGERMNTFVRYLLKRIKKCCGMRNTDVSMENMVTVGFFSCMGTLICIGAAFSQ  
CEEWSFFHAYYYCFITLTTIGFGDYVALQTKGALQKKPLYVAFSFMYLVLTVIGAFNL  
LVVLRFLTMSSEDERDAEERASLAGNRNSMVIHIPEEPRPSRPRYKADVPDLQSVCSCT  
CYRSQDYGGRSVAPQNSFSAKLAPHYFHSISYKIEEISPSTLKNLFPSPISSISPLHS  
FTDHQRLMKRRKSV

>sp|P57789|KCNKA\_HUMAN Potassium channel subfamily K member 10 OS=Homo sapiens GN=KCNK10  
PE=1 SV=1

MFFLYTDFFLSLVAVPAAAPVCQPKSATNGQPPAPAPTPTPRLSISSRATVVARMEGTSQ  
GGLQTMKWKTVVAIFVVVVVVLVTGGLVFRALQPFESSQKNTIALEKAEFLRDHVCVS  
PQELETLIQHALDADNAGVSPIGNSSNSSHWDLGSAFFAGTVITITIGYGNIAPESTEGG  
KIFCILYAFGIPLFGFLLAGIGDQLGTIFGKSIARVEKVFRKKQVSQTKIRVISTILFI  
LAGCIVFVTIPAVIFKYIEGWTALESIFVVVTLTTVGFGDFVAGGNAGINREWKPLV  
WFWILVGLAYFAAVLSMIGDWLRVLSKKTKEEVGEIKAHAAEWKANVTAEFRETRRRLSV  
EIHDKLQRAATIRSMERRRLGLDQRAHSLDMLSPEKRSVFAALDTGRFKASSQESINNRP  
NNLRLKGPEQLNKHGQGAEDNIINKFGSTSRLTKRKNKDLKKTLPEDVQKIYKTRNYS  
LDEEKKEEETKMCNSDNSSTAMLTDCIQQAELNGMIPTDTPDREPENNSLLEDRN

>sp|Q7Z418|KCNKI\_HUMAN Potassium channel subfamily K member 18 OS=Homo sapiens GN=KCNK18  
PE=1 SV=1

MEVSGHPQARRCCPEALGKLPGLCFLCLVLYALVGAVVFSATIEDGQVLVAADDGEFEK  
FLEELCRILNCSETVVEDRKQDLQGHLLQKVKPQWFNRTTHWSFLSSLFFCCTVFSTVGYG  
YIYPVTRLGKYLCLMIALFGIPLMFLVLTDTGDILATILSTSYNFRKFPFFTRPLLSKW  
CPKSLFKKKPDKPADEAVPQIIISAEELPGPKLGTCPSPSCSMELFERSHALEKQNTL  
QLPPQAMERSNSCPVLGRLSYSIISNLDEVGQQVERLDIPLPIIALIVFAYISCAAAI  
LPFWETQLDFENAFYFCFVTLTTIGGDTVLEHPNFFLFFSIYIIVGMEIVFIAFKLVQN  
RLIDIYKNVMLFFAKGKFYHLVKK

>sp|Q9UGI6|KCNN3\_HUMAN Small conductance calcium-activated potassium channel protein 3  
OS=Homo sapiens GN=KCNN3 PE=2 SV=1

MDTSGHFHDSGVGDLDEDPKPCPSSGDEQQQQQQQQQQQPPPPAPPAAPQQPLGPSLQ  
PQPPLQQQQQQQQQQQQQQQQQQPPHPLSQAQLQSQPVHPGLLHSSPTAFRAPSSN  
STAILHPSSRQGSQNLNDHLLGHSPSSTATSGPGGSRHRQASPLVHRRDSNPFTEIAM  
SSCKYSGGVMKPLSRLSASRRNLIEAETEGQPLQLFSPSNPPEIVISSREDNHAHQTLH  
HPNATHNHQHAGTTASSTTFPKANKRKNQNIQYKLGHRRALFEKRKRLSDYALIFGMFGI  
VVMVIELTSLWGLYSKDSMFLSLKCLISLSTIILLGLIIAYHTREVQLFVIDNGADDWR  
IAMTYERILYISLEMLVCAIHPIPGYKFFWTARLAFSYTPSRAEADVDIILSIPMFLRL  
YLIARVMLLHSLKLTDASSRSIGALNKINFNTRFVMTLMTICPGTVLLVFSISLWIIAA  
WTVRVCERYHDQDVTSNFLGAMWLISITFLSIGYDMVPHTYCGKGVCLLTGIMGAGCT  
ALVVAVVARKLELTKAEKHVHFMMDTQLTKRIKNAAANVLRETWLIYKHTKLLKKIDHA  
KVRKHQRKFLQAIHQLSVKMEQRKLSAQNTLVDSLKMQNVMYDLITELNDRSEDLKQ  
IGSLESKLEHLTASFNSLPLLIADTLRQQQQQLLSAIIIEARGVSVAVGTTHTPISDSPIG

VSSTSFPTPYTSSSSC

>sp|043526|KCNQ2\_HUMAN Potassium voltage-gated channel subfamily KQT member 2 OS=Homo sapiens GN=KCNQ2 PE=1 SV=2

MVQKSRNGGVYPGSGEKKLVGVGLDPGAPDSTRDGALLIAGSEAPKRGSI LSKPRAG  
GAGAGKPPKRNAFYRKLQNFLYNVLERPRGWAFIYHAYVFLVFSCLVLSVFSTIKEYEK  
SSEGALYILEIVTIVVFGVEYFVRIWAAGCCCRYRGWRGRLKFARKPFCVIDIMVLIASI  
AVLAAGSQGNVFATSALRSLRFLQILRMIRMDRRGGTWKLLGSVVYAHSKELVTAWYIGF  
LCLILASFLVYLAEKGENDHFDYADALWWGLITLTTIGYGDKYPQTWNGRLLAATFTLI  
GVSFALPAGILGSGFALKVQEQRHQKHFKEKRRNPAAGLIQSAWRFYATNLSRTDLHSTW  
QYYERTVTVPMYSSQTQTYGASRLIPPLNQLELLRNLKSKSGLAFRKDPPPEPSPSKGSP  
CRGPLCGCCPGRSSQKVSLKDRVFSSPRGVAAGKKGSPQAQTVRRSPSADQSLEDSPSKV  
PKSWSFGDRSRARQAFRIKGAASRQNSEEASLPGEDIVDDKSCPCFVTEDLTPGLKVS I  
RAVCVMRFLVSKRKFKESLRPYDVMVIEQYSAGHLDMLSRIKSLQSRVDQIVGRGPAIT  
DKDRTKGPAEAELEDPSSMMGRLGKVEKQVLSMEKKLDFLVNIYMQRMGIPPTETEAYFG  
AKEPEPAPPYHSPEDSREHVDRHGCIVKIVRSSSTGQKNFSAPPAAPPVQCPPSTSWQP  
QSHPRQGHGTSPVGDHGS LVRIPPPAHERSLSAYGGGNRASMEFLRQEDTPGCRPPEGN  
LRSDTSISIPVDHEELERSFSGFSISQSKENLDALNSCYAAVAPCAKVRPYIAEGESD  
TDSLCTPCGPPRSATGEGPFGDVGWAGPRK

>sp|P12277|KCRB\_HUMAN Creatine kinase B-type OS=Homo sapiens GN=CKB PE=1 SV=1

MPFSNSHNALKLRFAEDEFDPDLSAHNNHMAKVLTPELYAELRAKSTPSGFTLDDVIQTG  
VDNPGHPYIMTVGCVAGDEESYEVFKDLFDPIIEDRHGGYKPSDEHKTDLNPDNLQGGDD  
LDPNYVLSSRVRTGRSIRGFCLPPHCSRGERRAIEKLAVEALSSLDGDLAGRYYALKSMT  
EAEQQQLIDDHFLFDKPVSPLLLASGMARDWPDARGIWHNDNKTFVLVWNEEDHLRVISM  
QKGGNMKEVFTRFCTGLTQIETLFKSKDYEFMWNPHLGYILTCPSNLGTGLRAGVHIKLP  
NLGKHEKFSEVLKRLRLQKRGTTGGVDTAAVGGVFDVSNADRLGFSEVELVQMVDGVKLL  
IEMEQRLEQQQAIDDLMPAQK

>sp|Q719H9|KCTD1\_HUMAN BTB/POZ domain-containing protein KCTD1 OS=Homo sapiens GN=KCTD1 PE=1 SV=1

MSRPLITRSPASPLNNQGIPTPAQLTKSNAPVHIDVGGHMYTSSLATLTKYPESRIGRLF  
DGTEPIVLDSLKQHYFIDRDGQMFRYILNFLRTSKLLIPDDFKDYTLLEYEAKYFQLQPM  
LLEMERWKQDRETGRFSRPCECLVVRVAPDLGERITLSGDKSLIEEVFPEIGDVMCNSVN  
AGWNHDSTHVI RFPNLGYCHLNSVQVLERLQQRGFEIVGSCGGVDSSQFSEYVLRREL R  
RTPRVPSVIRIKQEPLD

>sp|Q8WVF5|KCTD4\_HUMAN BTB/POZ domain-containing protein KCTD4 OS=Homo sapiens GN=KCTD4 PE=2 SV=2

MERKINRREKEKEYEGKHSLEDTDQGKNCKSTLMTLNVGGYLYITQKQTLTKYPDTFLE  
GIVNGKILCPFDADGHYFIDRDGLLFRHVLNFLRNGELLLPEGFRENQLLAQEAFFQLK  
GLAEVKS RWEKEQLTPRETTFLEITDNHDSQGLRIFCNAPDFISKIKSRIVLVSKSRL  
DGFPEEFSISSNIIQFKYFIKSENGTRLVLKEDNTFVCTLET LKFEAIMMALKCGFRLLT  
SLDCSKGSIVHSDALHFIK

>sp|Q7L273|KCTD9\_HUMAN BTB/POZ domain-containing protein KCTD9 OS=Homo sapiens GN=KCTD9 PE=1 SV=1

MRRVTLFLNGSPKNGKVAVYGTLSDLLSVASSKLGIKATSVYNGKGLIDDIALIRDDD  
VLFVCEGEPFIDPQTDSKPPEGLLGFTDWLTLNVGGRYFTTTRSTLVNKEPDSMLAHMF

KDKGVWGNKQDHRGAFLIDRSPEYFEPILNYLRHGQLIVNDGINLLGVLEEARFFGIDSL  
IEHLEVAIKNSQPPEDHSPISRKEFVRFLLATPTKSELRCQGLNFSGADLSRLDLRYINF  
KMANLSRCNLAHANLCCANLERADLSGSVLDKANLQGVKMLCSNAEGASLKLCNFEDPSG  
LKANLEGANLKGVDMEGSQMTGINLRVATLKNAKLKNCNLRGATLAGTDLENCDSLSCDL  
QEANLRGSNVKGAIFEEMLTPLHMSQSVR

>sp|Q7Z7F0|K0907\_HUMAN UPF0469 protein KIAA0907 OS=Homo sapiens GN=KIAA0907 PE=1 SV=1

MSAGSATHPGAGGRSKWDQPAPAPLLFLPPAAPGGEVTSSGGSPGGTTAAPSGALDAAA  
AVAAKINAMLMAGKGLKPTQNASEKLQAPGKGLTSNKSDDLVAEVEINDVPLTCRNLL  
TRGQTQDEISRLSGAAVSTRGRFMTTEEKAKVGPGRPLYLHVQGQTRELVDRAVNIKE  
IITNGVVKAATGTSPFNGATVTVYHQPAPIAQLSPAVSQKPPFQSGMHYVQDKLFGLE  
HAVPTFNVKEKVEGPGCSYLQHIQIETGAKVFLRGKSGCIEPASGREAFEPMYIYISHP  
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GQSPMGPFPIAAPVKTALPAGPQPQPQPPLPSQPQAQKRRFTEELPDERESGLLGYYQ  
HGPIHMTNLGTGFSSQNEIEGAGSKPASSGKERERDRQLMPPPAFPVTGIKTESDERNG  
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>sp|P59773|K102L\_HUMAN UPF0258 protein KIAA1024-like OS=Homo sapiens GN=KIAA1024L PE=3  
SV=2

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IAAQIRIGSSADSLVTADSPPPSMSSVMKNNPLYGDLLEEAMEERKKNPSWTIEEYDKH  
SLHTNLSGHLKENPNDLRFWLGDMYTPGFDTLKKKEEKQEKHSKFCRMGLILLVVISILV  
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>sp|Q86T90|K1328\_HUMAN Protein hinderin OS=Homo sapiens GN=KIAA1328 PE=1 SV=2

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ERLKAQESFEKKIRQLEEQNELIIKEREALQLQYRECQELLSLYQKYLSEQQEKLMSL  
SELGAARMQEQQVSSRKSTLQCSSVELDGSYLSIARPQTYQTKQRPKSAVQDSASESLI  
AFRNNSLKPVTLHHPKDDLKIPSETTTCNCESPRKPAVPTEKMPQEELHMKECPHLKP  
TPSQCCGHRLAADRVHDSHPTNMTQHPKTHPESCSYCRLSWASLVHGGALQPIETLKK  
QISEDQRKQMLQKMELEIEKERLQHLLAQQETKLLKQQLHQSRLDYNCLLKSNCDGW  
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>sp|A8MWY0|K132L\_HUMAN UPF0577 protein KIAA1324-like OS=Homo sapiens GN=KIAA1324L PE=1  
SV=2

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SKCEGTYSLSGSGIKFDEWDELPAFGFSNIATFMDTVVGPDSRDPGCNNSWIIPRGNYIE  
SNRDDCTVSLIYAVHLKSGYVFYEYQYVDNNIFFEYFIQNDQCQEMDTTDDKWKLTDN  
GEWGSHSVMLKSGTNILYWRTTGILMGSKAVKPVLVKNITIEGVAYTSECFCKPGTFSN  
KPGSFNCQVCPRNTYSEKGAKECIRCKDDSQFSEEGSSECTERPPCTTKDYFQIHTPCDE  
EGKTQIMYKWIPEKICREDLTAIRLPPSGEKKDCPPCNPGFYNNGSSSCHPCPPGTFSN  
GTKECRPCPAGTEPALGFEYKWWNVLPGNMKTSCFNVGNSKCDGMNGWEVAGDHIQSGAG

GSDNDYLILNLHIPGFKPPTSMGTATGSELGRITFVFETLCSADCVLVFMVDINRKSTNV  
VESWGGTKEKQAYTHIIFKNATFTFTWAFQRTNQGDNRRFINDMVKIYSITATNAVDGV  
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LADTFIGVTVETLKNINIKEDMFPVPTSQIPDVHFFYKSSTATTSCINGRSTAVKMRCN  
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WNEPKWCIKGISLPEKKLATCETVDFWLKVGAGVGAFVALLVALTCYFWKKNQKLEYKY  
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LKTSRSPNI

>sp|Q9HCM1|K1551\_HUMAN Uncharacterized protein KIAA1551 OS=Homo sapiens GN=KIAA1551 PE=1  
SV=3

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SLQVKNSQLLNSVLTLPQRQTSAPVPSQQYATQTDKRPPPPYPNCRYGSQPLQSTQHITKH  
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VQTLAQTNEEKIMDSNPTSQNVLDTSVAKEKLVRDIKTLVEIKQKFSELARKIKINKDL  
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TEVVSQCDLQAPAAGQSRDSVILDSEKDDIHCCALGWLMSVYEGVPQCQCNSIKNSSSEE  
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TRQKKHVTQNSRPLTKTAFLPNKDVKHSSLGQSLSPEKIKLKLKSVSFKQKRKLDQG  
NVLDMEVKKKKHDKQEKGSGVGFKLGDLSNPNERAIVKEKMSNTKSVDTKASSSKF  
SRILTPKEYLQRQKHKEALSNKASKKICVKNVPCDSEHMRPSKLAVQVESCCKSNEKHSS  
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ISNEAQFSQMPQVKDQKKLYLNRVGFKCTERESISLTKLESSPRKLHKDKRQENKHKTF  
LPVKGNTKSNMLEFKLCPDILLKNTNSVEERKDVKPHPRKEQAPLQVSGIKSTKEDWLK  
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LGSSPVK

>sp|Q3SXP7|K1644\_HUMAN Uncharacterized protein KIAA1644 OS=Homo sapiens GN=KIAA1644 PE=2  
SV=2

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SAMNYDICKVYLARWGIQGRWMKQDPRRWGNPARAPRPGQRAPQPQPPGPLPQAPQAVH  
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>sp|Q9H0B3|K1683\_HUMAN Uncharacterized protein KIAA1683 OS=Homo sapiens GN=KIAA1683 PE=1  
SV=1

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HSTCNVESWGDNGATRAQPSMPGQAVPCQEDTGPADAGVVGGSWNRAWEPARGAASWDT  
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RGYRVRRLAHLCRATTTIQSAWRGYSTRDQARHWQMLHPVTWVELGSRAGVMSDRSWF  
QDGRARTVSDHRCFQSCQAHACSVCHSLSSRIGSPPSVVMLVGSSPRTCHTCGRTQPTRV  
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>sp|P19012|K1C15\_HUMAN Keratin, type I cytoskeletal 15 OS=Homo sapiens GN=KRT15 PE=1 SV=3

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DKVRALEEANADLEVKIHDWYQKQTPTSPECDSYQYFKTIEELRDKIMATTIDNSRVILE  
IDNARLAADDFRLKYENELALRQGV EADINGLRRVLDELTLARTDLEMQIEGLNEELAYL  
KKNH EEMKEFSSQLAGQNVNEMDAAPGVDLTRVLAEMREQYEAMAEKNRRDVEAWFFSK  
TEELNKEVASNTEMIQTSKTEITDLRRTMQELEIELQSLSMKAGLENSLAETECRYATQ  
LQQIQGLIGGLEAQLSELRCMEAAQNQEYKMLLDIKTRLEQEIATYRSLLLEGQDAKMAGI  
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>sp|Q5QGS0|K2022\_HUMAN Protein KIAA2022 OS=Homo sapiens GN=KIAA2022 PE=2 SV=1

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APFAIMEPAGMSALNGDCLMQPSRTCLGCFMESKDAVDPEPGISLKVGD LN RDYETCAVS  
DIGIQCINAGENMKYGEQLLSDQLLGFLHKS RAGDRRETEKPDIDLEDPAQKSYEALL  
LDKCNTEEALLANSNQDWGYFETFISESKIELLDLCSKNELSVNLFSEEDVDNYMFDDDE  
STLGSDVCSLKIRYESFQDNVRDKTTLLMQEDAQFNFFPSVFTTCPKRESKSGALKQSSD  
FSQFKVPDVSI IWGEEDKNLDKKKGKEEGQEDKGVEKKDKDNGEKPALNKPSCSGTEVEQ  
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RAKRKVRYSEDYLYDVDSLEGEKVNERKEWLPVGSKEEDDEWCPKRRKVTREKPPV I I  
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AAKSSTFLPTTCSSEMPLESSANVTNIPVIPGGYLQTLDDASDLNNTSISYFSHHSPEQ  
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DDSYQLCHFNGEICFPFQGPVNMDGRLFSFDSMAPLSVSSSNYCSLSLKSCKEKGDD  
DITDDFLAHCSPKLVIIQQSIDEIAPLKESTDLLDISNFTPKFRHSSLEMSPPDTPSLS  
PQITRCESMKTGLTKGFQEGVPGPLDSVEKIKWDCSTLSRQVQMEDGFTLNNHQFQFHM  
FNEDSVSLLQKNPCLSTFNPSGQISTNNKVSRSRKKSSPSKSGAMNQSSSQKNTRKKS  
LKGNNKGIEKPPGKNSRQVPKSTKKGKYMAAINGEKMQIGIGRGGSTNTISSTGKTLAE  
CIQHGGPMA SMKPSQKGLSGDWALGKESSPGWSDMSMGNTNLSLLDDQREFQEPSYIL  
SNIASGMADVQRFMASIEPLWEPMEHHGDPNIFYSPESNSLKLTKILAGTPQESKKK  
INSGSQGATKNHRSIKGVSKSNGKTAIGDPGRANMPGYNEDSRSTFFDKKYSNMSTLGNN  
GPTHKKLYRHKSSSKALRDEKCKGKHMEREQVHKDESGTASFELRDSYNLLKAETTFW  
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>sp|P19013|K2C4\_HUMAN Keratin, type II cytoskeletal 4 OS=Homo sapiens GN=KRT4 PE=1 SV=4

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ISMSVAGSRQGACFGGAGGFGTGGFGAGGFGAGFGTGGFGGGFGGSFSGKGGPGFPVCPA  
GGIQEVTINQSLLTPLHVEIDPEIQKVRTEEREQIKLLNNKFASFIDKVQFLEQQNKVLE  
TKWNLLQQQTTTTSSKNLEPLFETYLSVLRKQLDTLGNDKGRQLQSELKTMQDSVEDFKTK  
YEEEINKRTAAENDFVVLKKDVDAAYLNKVELEAKVDSLNDINFLKVLYDAELSQQMTH  
VSDTSVVL SMDNNRNL DLSIIAEVRAQYEEIAQRSKAEAEALYQTKVQQLQISVDQHGD  
NLKNTKSEIAELNRM IQRLRAE IENIKKQCQTLQVSVADAEQRGENALKDAHSKRVELEA  
ALQQAKEELARMLREYQELMSVKLALDIEIATYRKLEGEYRMSGECQSAVSISVVSGS  
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>sp|P13647|K2C5\_HUMAN Keratin, type II cytoskeletal 5 OS=Homo sapiens GN=KRT5 PE=1 SV=3

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GSRSLYNLGSKRISISTSGGSFRNRFAGAGGGYGFGGGAGSGFGFGGGAGGGFGLGGG  
AGFGGGFGGPGFPVCPGPGGIQEVTVNQSLLTPLNLQIDPSIQRVRTTEEREQIKTLNNKFA  
SFIDKVRFLEQQNKVLDTKWTLLEQGTKTVRQNLPLFEQYINNLRRLDSIVGERGRL  
DSELNMQDLVEDFKNKYEDEINKRTTAENEFVMLKKDVDAAYMNKVELEAKVDALMDEI  
NFMKMFDAELSQQMTHVSDTSVVL SMDNNRNL DLSIIAEVKAQYEEIANRSRTEAESW  
YQTKYEELQQTAGRHGDDLNTKHEISEMNRM IQRLRAE IDNVKKQCANLQNAIADAEQR  
GELALKDARNKLAEEALQKAKQDMARLLREYQELMNTKLALDVEIATYRKLEGEECR  
LSGEGVGPVNISVVTSSVSSGYSGSGYGGGLGGGLGGGLAGGSSGSYYSSSSGGV  
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>sp|O95678|K2C75\_HUMAN Keratin, type II cytoskeletal 75 OS=Homo sapiens GN=KRT75 PE=1  
SV=2

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IQEVTVNQSLLTPLHLQIDPTIQRVRAEEREQIKTLNNKFASFIDKVRFLEQQNKVLETK

WALLQEQGSRTVRQNLEPLFDSYSELRRQLESITTERGRLEAELRNMQDVVEDFKVRYE  
DEINKRTAAENEFVALKKDVDAAYMNKVELEAKVKSLPEEINFIHSVFDAELSQLQTQVG  
DTSVLSMDNNRNLDLDSIIAEVKAQYEDIANRSRAEASWYQTKYEELQVTAGRHGDDL  
RNTKQEISEMNRMIQRLRAEIDSVKKQCSSLQTAIADAEQRGELALKDARAKLVDLEEAL  
QKAKQDMARLLREYQELMNIKLALDVEIATYRKLLEGEECRLSGEGVSPVNISVVTSTLS  
SGYSGSSIGGGNLGLGGSGYSFTTSGGHSGLGAGLGGSGFSATSNRGLGGSGSSVKFVS  
TTSSSQKSYTH

>sp|Q5XKE5|K2C79\_HUMAN Keratin, type II cytoskeletal 79 OS=Homo sapiens GN=KRT79 PE=1 SV=2

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SLYNLGGHKSISVSVAGGALLGRALGGFGFSRAFMQGAGRQTFGPACPPGGIQEVTN  
QSLTPLHVEIDPEIQRVRTQEREQIKTLNKFASFIDKVRFLEQQNKVLETKWALLQEQ  
GQNLGVTRNNLEPLFEAYLGSMRSTLDRLQSERGRLDSELRNVQDLVEDFKNKYEDEINK  
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LSMDNNRNLDLDSIIAEVKAQYELIAQRSRAEAEAWYQTKYEELQVTAGKHGDNLRDTKN  
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DLTRLLRDYQELMNVKLALDVEIATYRKLLESEESRMSGECPSAVSISVTGNSTTVCGGG  
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>sp|Q9UBP8|KAAG1\_HUMAN Kidney-associated antigen 1 OS=Homo sapiens GN=KAAG1 PE=2 SV=1  
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>sp|P00568|KAD1\_HUMAN Adenylate kinase isoenzyme 1 OS=Homo sapiens GN=AK1 PE=1 SV=3  
MEEKLKKTKIIFVVGPGSGKGTQCEKIVQKYGYTHLSTGDLLRSEVSSGSARGKKLSEI  
MEKGQLVPLETVLMDLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDA  
GPETMTQRLKRGESGRVDDNEETIKKRLITYYKATEPVIAFYEKRGIVRKVNAEGSVD  
SVFSQVCTHLDALK

>sp|P27144|KAD4\_HUMAN Adenylate kinase 4, mitochondrial OS=Homo sapiens GN=AK4 PE=1 SV=1  
MASKLLRAVILGPPGSGKGTVCQRIAQNFGQLHSSGHFLRENIKASTEVEGEMAKQYIEK  
SLLVPDHSVITRLMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLK  
DRLSRRWIHPPSGRVYNLDFNPPHVHGIDDVTEPLVQQEDDKPEAVAARLRQYKDVAKP  
VIELYKSRGVLHQFSGTETNKIWPVYVTLFSNKITPIQSKEAY

>sp|Q9NPA1|KCNB3\_HUMAN Calcium-activated potassium channel subunit beta-3 OS=Homo sapiens  
GN=KCNMB3 PE=1 SV=2

MDFSPSELGFHFVAFILLTRHRTAFPASGKKRETSDGDPLDVHKRLPSSAGEDRAVM  
LGFAMMGFSVLMFFLLGTTILKPFMLSIQREESTCTAIHTDIMDDWLDCAFTCGVHCHGQ  
GKYPCLQVFVNLSHPGQKALLHYNEEAVQINPKCFYTPKCHQDRNDLLNSALDIKEFFDH  
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>sp|P17658|KCNA6\_HUMAN Potassium voltage-gated channel subfamily A member 6 OS=Homo  
sapiens GN=KCNA6 PE=2 SV=1

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LFPDTLLGDPGRVRFFDPLRNEYFFDRNRPSFDAILYYYQSGGRLRRPVNPLDIFLEE  
IRFYQLGDEALAAFREDEGCLPEGGEDEKPLPSQPFQRRQVWLLFEYPSSGPARGIAIVS  
VLVILISIVIFCLETLPQFRVDGRGGNNGVSRVSPVSRGSQEEEEDEDDSYTFHHGITP

GEMGTGSSSLSTLGGSFDTDPFFLVETLCIVWFTFELLVRFSACPSKPAFFRNIMNIID  
LVAIFPYFITLGTTELVQQEQQPASGGGGQNGQQAMSLAILRVIRLVFRIFKLSRHSK  
GLQILGKTLQASMRELGLLIFFLFIGVILFSSAVYFAEADDDSLFPSIPDAFWWAVVTM  
TTVGYGDMYPMTVGKIVGSLCAIAGVLTIALPVPVIVSNFNFYHRETEQEEQGGYTHV  
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>sp|Q92953|KCNB2\_HUMAN Potassium voltage-gated channel subfamily B member 2 OS=Homo sapiens GN=KCNB2 PE=2 SV=2

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QELDYWGIDEIYLESQARYHQKKEQMNEELRREAETMREREGEEFDNTCCPDKRKKLW  
DLLEKPNSSVAAKILAIVSILFIVLSTIALSLNTLPELQETDEFGQLNDNRQLAHVEAVC  
IAWFTMEYLLRFLSSPNKWKFFKGPLNVIDLLAILPYVYITFLTESNKSVLQFQNVRRV  
QIFRIMRILRILKLARHSTGLQSLGFTLRRSYNELGLLILFLAMGIMIFSSLVFFAEKDE  
DATKFTSIPASFWWATITMTTVGYGDIYPKTLLGKIVGGLCCIAGVLVIALPIPIIVNNF  
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SADDNHLSPSRWKWARKALSETSSNKSFENKYQEVSQKDSHEQLNNTSSSSPQHLSAQKL  
EMLYNEITKTQPHSHPNDCQEKPERPSAYEEEEIEMEEVVCPEQLAVAQTEVIVDMKST  
SSIDSFTSCATDFTETERSPLPPPSASHLQMKFPTDLPGTEHQRARGPPFLTLSREKGP  
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ENRGSAPQTPSTARPLPVTTADFSLTTPQHISTILLEETPSQGDRPLLGTVEVSAPCQGP  
SKGLSPRFPKQKLFPSRERRSFTEIDTGDEDFLELPGAREEKQVDSSPNCFADKPSD  
GRDPLREEGSVGSSSPQDTGHNCRQDIYHAVSEVKKDSSQEGCKMENHLFAPEIHSNPGD  
TGycPTRETSM

>sp|043525|KCNQ3\_HUMAN Potassium voltage-gated channel subfamily KQT member 3 OS=Homo sapiens GN=KCNQ3 PE=1 SV=2

MGLKARRAAGAAGGGGDDGGGGGGAANPAGGDAAAAGDEERKVG LAPGDVEQVTLALGAG  
ADKDGTLILLEGGGRDEGQRRTQIGIGLLAKTPLSRPVKRNNAKYRRIQTLIYDALERPRG  
WALLYHALVFLIVLGCLILAVLTTFKEYETVSGDWLLLLLETFAIFIFGAEFALRIWAAGC  
CCRYKGRWRGLKFARKPLCMLDIFVLIASVPVAVGNQGNVATSLRSLRFLQILRMLRM  
DRRGGTWKLGLSAICAHSKELITAWYIGFLTILSSFLVYLVEKDVPEVDAQGEEMKEEF  
ETYADALWWGLITLATIGYDKTPKTWEGRLAATFSLIGVSFFALPAGILGSGLALKVQ  
EQHRQKHFEKRRKPAAELIQAAWRYATNPNRIDL VATWRFYESVVSFPFRKEQLEAAS  
SQKLGLLDRVRLSNPRGSNTKGKLF TPLNVDAIEESPSKEPKPVGLNNKERFRTAFRMA  
YAFWQSSEDAGTGDPM AEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFKETLRP  
YDVKD VIEQYSAGHLDMLSRIKYLQTRIDMIFTPGPPSTPKHKKSQKGS AFTFPSQQSPR  
NEPYVARPSTSEIEDQSMGKFVKVERQVQDMGKKLDFL VDMHMQHMERLQVQVTEYYPT  
KGTSSPAEAEKKEDNRYSDLKTIICNYSETGPPEPPYSFHVQITDKVSPYGF FAHDPVNL  
PRGGPSSGKVQATPPSSATTYVERPTVLPILTLLDSRVSCHSQADLQGPYSDRISPRQRR  
SITRSDTPLSLMSVNHEELERSPSGFSISQDRDDYVFGPNGSSWMREKRYLAEGETDT  
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>sp|Q6UVM3|KCNT2\_HUMAN Potassium channel subfamily T member 2 OS=Homo sapiens GN=KCNT2 PE=1 SV=1

MVDLESEVPPLPPRYRFRDLLLDGQGWQND RRVQVEFYMNENTFKERLKLFFIKNQRSSL  
RIRLFNFSLKLLSCLLYIIRVLLENPSQGNESHIFWVNRSLPLWGLQVSVALISLFETI

LLGYLSYKNIWEQILRIPFILEIINAVPFIISIFWPSLRNLFVPVFLNCWLAKHALENM  
INDLHRAIQRTQSAMFNQVLILISTLLCLIFTCICGIQHLEIRIGKKLNLFDSLFCIVTF  
STVGFQDVTPEWSSSKLFVVMICVALVVLPIQFEQLAYLWMERQKSGGNYSRHRAQTEK  
HVVLCVSSLKIDLLMDFLNEFYAHPRLQDYVVVILCPTMDVQVRRVLQIPMWSQRVIYL  
QGSALKDQDLLRAKMDDAEACFILSSRCEVDRTSSDHQTIILRAWAVKDFAPNCPLYVQIL  
KPENKFHIKFADHVVEEEFKYAMLALNCICPATSTLITLLVHTSRGQEGQQSPEQWQKM  
YGRCSGNEVYHIVLEESTFFAEYEGKSFTYASFHAHKKFGVCLIGVRREDNKNILLNPGP  
RYIMNSTDICFYINITKEENSAFKNQDQQRKSNVSRSFYHGSPRLPVHSIIASMGTV  
LQDTSCRSASGPTLSLPTEGSKEIRRP  
SIAPVLEVADTSSIQTCDLLSDQSEDETTPDEE  
MSSNLEYAKGYPPSPYIGSSPTFCHLLHEKVPFCCLRLDKSCQHNYVEDAKAYGFKNKL  
IIVAAETAGNGLNFIVPLRAYRPPKELNPIVLLLDNPPDMHFLDAICWFPMVVYVVG  
SIDNDDLLRCGVTFANMMVVVDKESTMSAEEDYMADAKTIVNVQTLFRLFSSLSIITELT  
HPANMRFMQFRAKDCYSLALSKEKKERERGSNLAFMFRLPFAAGRVFSISMLDTLLYQS  
FVKDYMISITRLLGLDTPGSGFLCSMKITADDLWIRTYARLYQKLCSSSTGDVPIGIYR  
TESQKLTTSESQISISVEEWEDTKDSKEQGHRSNHRNSTSSDQSDHPLLRKSMQWARR  
LSRKGPKHSGKTAEKITQQLNLYRRSERQELAEVKNRMKHLGLSTVGYDEMNDHQSTL  
SYILINSPDTRIELNDVVYLIRPDPLAYLPNSEPSRRNSICNVTGQDSREETQL

>sp|Q8TDN2|KCNV2\_HUMAN Potassium voltage-gated channel subfamily V member 2 OS=Homo sapiens GN=KCNV2 PE=1 SV=1

MLKQSERRRSWSYRPWNTTENEGSQHRRSICSLGARSGSQASIHGWTEGNYNYIEEDED  
GEEEDQWKDDLAEEEDQAGEVTTAKPEGSPDPPALLSTLNVNVGGHSYQLDYCELAGFPK  
TRLGRLATSTSRSRQLSLCDDYEEQTDEYFFDRDPAVFQLVYNFYLSGVLLVLDGLCPRR  
FLEELGYWGVRLKYTPRCCRICFEERRDELSERLKIQHELRAQAQVEEAELFRDMRFYG  
PQRRRLWNLMEKPFSSVAAKAIGVASSTFVLVSVALALNTVEEMQQHSGQGEGGPDLRP  
ILEHVEMLCMGFFTEYLLRLASTPDLRRFARSALNLDLVAILPLYLQLLLECFTGEGH  
QRGQTVGSVGVKGVQLRVMRLMRIFRILKLARHSTGLRAFGTLRQCYQQVGCLLLFIAM  
GIFTFSAAVYSVEHDPSTNFTTIPHSSWWAAVSISTVGYGDMYPETHLGRFFAFLCIAF  
GIILNGMPI SILYNKFSDYSKL KAYEYTTIRRERGEVNFQMQRARKKIAECLLGSNPQLT  
PRQEN

>sp|Q14681|KCTD2\_HUMAN BTB/POZ domain-containing protein KCTD2 OS=Homo sapiens GN=KCTD2 PE=1 SV=3

MAELQLDPAMAGLGGGGSGVGDGGGPVRGPPSPRPAGPTPRGHGRPAAAVAQPLEPGPG  
PPERAGGGGAARWVRLNVGGTYFVTTTRQTLGREPKSFLCRLCCQEDPELDSKDETAYL  
IDRDPTYFGPILNYLRHGKLIITKELAEEGVLEEAFFYNIASLVRLVKERIRDNENRTSQ  
GPVKHVYRVLQCQEEELTQMVSTMSDGWKFEQLISIGSSYNYGNEDQAEFLCVVSRELNN  
STNGIVIEPSEKAKILQERGSRM

>sp|Q96MP8|KCTD7\_HUMAN BTB/POZ domain-containing protein KCTD7 OS=Homo sapiens GN=KCTD7 PE=1 SV=1

MVVVTGREPDSRRQDGAMSSSDAEDDFLEPATPTATQAGHALPLLQEFPEVVPLNIGGA  
HFTTRLSTLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHFGDVLNFLRSGDLPPRE  
RVRAVYKEAQYYAIGPLLEQLENMQPLKGEKVRQAFLGLMPYKDHLEIRIVEIARLRAVQ  
RKARFAKLKVCVFKEEMPITPYECPLLNSLRFERSESDGQLFEHHCEVDVSFGPWAEVAD  
VYDLLHCLVTDLSAQLTVDHQCIGVCDKHLVNHYCKRPIYEFKITWW

>sp|Q13976|GPI1\_HUMAN cGMP-dependent protein kinase 1 OS=Homo sapiens GN=PRKG1 PE=1 SV=3

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AQGISAEPTYRSFHDLRQAFRKFTKSERSKDLIKEAILDNDFMKNLELSQIQEIVDCMY  
PVEYKGDSCIIEKGDVGSVLYVMEDGKVEVTKEGVKLCTMGPGKVFGEALILYNCTRTAT  
VKTLVNVKLWAIDRCQCFQTIMMRTGLIKHTEYMEFLKSVPTFQSLPEEILSKLADVLEET  
HYENGEYIIRQGARGDTFFIISKGTVNVTTREDSPSEDVFLRTLKGKDWFGKALQGEDV  
RTANVIAAEAVTCLVIDRDSFKHLIGGLDDVSNKAYEDAEAKAKYEAEAAFFANLKLSDF  
NIIDTLGVGGFGRVELVQLKSEESKTFAMKILKKRHIVDTRQQEHIRSEKQIMQGAHSDF  
IVRLYRTFKDSKYLMLMEACLGELWTILDRGSFEDSTTRFYTACVVEAFAYLHSGKI  
IYRDLKPENLILDHRGYAKLVDFGFAKKIGFGKKTWTFCGTPEYVAPEIILNKGHDISAD  
YWSLGILMYELLTGSPPFSGPDPMKTYNIIILRGIDMIEFPKKIAKNAANLIKKLCDNPS  
ERLGNLKNVGDQIKHKWFEGFNWGLRKGTLTPPIIPSVASPTDTSNFDSPEDNDEPP  
PDDNSGWDIDF

>sp|Q13237|KGP2\_HUMAN cGMP-dependent protein kinase 2 OS=Homo sapiens GN=PRKG2 PE=1 SV=1

MGNGSVKPKHSHKHPDGHSGNLTTDALRNKVTLELERELRRKDAEIQEREYHLKELREQLSK  
QTVAIAELTEELQNKCTQLNKLQDVVHMQGGSPQLQASPDKVPLEVHRKTSGLVSLHSRRG  
AKAGVSAEPTTRTYDLNKPPEFSFEKARVRKDSSEKKLITDALNKNQFLKRLDPQQIKDM  
VECMYGRNYQQGSYIIKQGEPEGNHIFVLAEGRLEVFGGEKLLSSIPMWTTFGELAILINC  
TRTASVKAITNVKTWALDREVFQNIIMRRTAQARDEQYRNFLRSVSLKNLPEDKLTKIID  
CLEVEYYDKGDYIIREGEEGSTFFILAKGKVKVTQSTEGHDQPQLIKTLQKGEYFGEKAL  
ISDDVRSANIIAEENDVACLVIDRETFNQTVGTFEELQKYLEGYVANLNRDDEKRHAKRS  
MSNWKLSKALSLEMIQLKEKVARFSSSPFQNLIIATLVGGFGRVELVKVKNENVAF  
MKCIRKKHIVDTKQGEHVYSEKRILEELCSPFIVKLYRTFKDNKYVYMLLEACLGELWS  
ILDRGSFDEPTSKFCVACVTEAFDYHLRLGIIYRDLKPENLILDAEYGLKLVDFGFAKK  
IGSGQKTWTFCGTPEYVAPEIILNKGHDFSVDVWSLGILVYELLTGNPPFSGVDQMMTYN  
LILKGIEKMDFPKRTTRPEDLIRRLCRQNPTERLGNLKNGINDIKKHRWLNGFNWEGLK  
ARSLPSPLQRELKGPIDHSYFDKYPPEKGMPPDELSGWDKDF

>sp|P52732|KIF11\_HUMAN Kinesin-like protein KIF11 OS=Homo sapiens GN=KIF11 PE=1 SV=2

MASQPNSSAKKKEEKGNQIVVVRCPFNLAERKASAHSIVECDPVRKEVSVRTGGLADK  
SSRKTYTFDMVFGASTKQIDVYRSVVCPIIDDEVIMGYNCTIFAYGQTGTGKTFTMEGERS  
PNEEYTWEEEDPLAGIIPRTLHQIFEKLTDNNGTEFSVKVSLLEIYNEELFDLLNPSSDVSE  
RLQMFDDPRNKRGVIIKGLEEITVHNKDEVYQILEKGAARKTTAATLMNAYSSRSHSVFS  
VTIHMKETTIDGEELVKIGKLNLDLAGSENIGRSGAVDKRAREAGNINQSLLTLGRVIT  
ALVERTPHVPYRESKLTRILQDSLGGRTTSIIATISPASLNLEETLSTLEYAHRAKNIL  
NKPEVNQKLTKKALIKYEETIEIRLKRDLAAAREKNGVYIISEENFRVMSGKLTVQEEQIV  
ELIEKIGAVEEELNRVTELFMDNKNELDQCKSDLQNKTELETTQKHLQETKLQLVKEEY  
ITSALESTEELHDAASKLLNTVEETTKDVSGLSKLDKKAQVQHNAAEQDIFGKNLNS  
LFNNMEELIKDGSSKQKAMLEVHKTILFGNLLSSSVSALDITTTVALGSLTIPENVSTHV  
SQIFNMILKEQSLAAESKTVLQELINVLTDLSSLEMILSPTTVVSILKINSQKHFIFT  
SLTVADKIEDQKKELDGFLSILCNLHELQENTICSLVESQKQCGNLTEDLKTIKQTHSQ  
ELCKLMNLWTERFCALEEKCENTIKPLSSVQENIQKSKDIVNKMTHFSQKFCADSDGFS  
QELRNFNQEGTKLVEESVKHSDKLNGLNLEKISQETEQRCESLNTRTVYFSEQWVSSLNER  
EQELHNLLEVVSQCEASSSDITEKSDGRKAAHEKQHNIFLDQMTIDEDKLIQNLNELNE  
TIKIGLTKLNCFLEQDLKLDIPTGTTPQRKSYLYPSTLVRTEPREHLLDQLKRKQPELLM  
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DKENRGINTLERSKVEETTEHLVTKSRLPLRAQINL

>sp|Q9NS87|KIF15\_HUMAN Kinesin-like protein KIF15 OS=Homo sapiens GN=KIF15 PE=1 SV=1

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LHSNPEPKTFTFDHVADVDTTQESVFATVAKSIVESCMSGYNGTIFAYGQTGSGKTFTMM  
GPSEDNFShnLRGVIPRSFEYLFSLIDREKEKAGAGKSFLCKCSFIEIYNEQIYDLLDS  
ASAGLYLREHIKKGVFVVGAVEQVVTSAAEAYQVLSGGWRNRRVASTSMNRESSRSHAVF  
TITIESMEKSNEIVNIRTSLLNLVDLAGSERQKDTAEGMRLKEAGNINRSLSCLGQVIT  
ALVDVGNGKQRHVCYRDSKLTFLRLDSLGGNAKTAIIANVHPGSRFCGETLSTLNFAQRA  
KLKIKNAVVNEDTQGNVSQLQAEVKRLKEQLAELASGQTPPESFLTRDKKKTNYMEYFQE  
AMLFFKKSEQEKKSLEIKVTQLEDLTLKKEKFIQSNKMIVKFREDQIIIRLEKLHKESSRG  
FLPEEQDRLLSELRNEIQTREQIEHHPRVAKYAMENHSLREENRRLRLLPEVKRAQEMD  
AQTIKLEKAFSEISGMEKSDKNQGFSPKAQKEPCLFANTEKLKAQLLQIQTELNNKQ  
EYEEFKELTRKRQLELESELQSLQKANLNLENLLEATKACKRQEVSQLNKIHAETLKIIIT  
TPTKAYQLHSRPVKLPSPMGSGSLYTQNSSILDNDILNEPVPPEMNEQAFEAISEELR  
TVQEQMSALQAKLDEEHKNLKLQHVHDKLEHHSTQMQLFSSERIDWTKQEEELSQLN  
VLEKQLQETQTKNDFLKSEVHDLRVVLHSADKELSSVKLEYSSFKTNQEKEFNKLSERHM  
HVQLQLDNLRLNEKLLSKACLQDSYDNLQEIMKFEIDQLSRNLQNFKKENETLKSDLN  
NLMELLEAEKERNKLSLQFEEDKENSKEILKVLEAVRQEKQKETACEQQMAKVQKLE  
ESLLATEKVISSLEKSRSDSKKVADLMNQIQELRTSVCEKTETIDTLKQELKDINCKYN  
SALVDREESRVLIKKQEVLDILDKETLRLRILSEDIERDMLCEDLAHATEQLNMLTEASK  
KHSGLLQSAQEELTKKEALIQELQHKLNQKKEEVEQKKNEYNFKMRQLEHVMDSAAEDPQ  
SPKTPPHFQTHLAKLLETQEIEIDGRASKTSLEHLVTKLNEDREVKNAEILRMKEQLRE  
MENLRLESQQLIEKNWLLQGQLDDIKRQKENSQDQNHDPNQQLKNEQEESEIKERLAKSKIV  
EEMLMKADLEEVQSALYNKEMECLRMTDEVERTQTLESKAFQEKEQLRSKLEEMYEERE  
RTSQEMEMLRKQVECLAENGKLVGHQNLHQKIQYVVRLKKENVRLAEETEKLAENVFL  
KEKKRSES

>sp|Q12756|KIF1A\_HUMAN Kinesin-like protein KIF1A OS=Homo sapiens GN=KIF1A PE=1 SV=2

MAGASVKVAVRVRPFNSREMSRDSKCI IQMSGSTTTIVNPKQPKETPKSFSFDYSYWSHT  
SPEDINYASQKQVYRDIGEMLQHAFEGYNVCIFAYGQTGAGKSYTMMGKQEKDQGGIIP  
QLCEDLFSRINDTTNDNMSYSVEVSYMEIYCERVRDLLNPKNKGNLRVREHPLLGPYVED  
LSKLAVTSYNDIQDLMDSGNKARTVAATNMNETSSRSHAVFNIIFTQKRHDAETNITTEK  
VSKISLVDLAGSERADSTGAKGTRLKEGANINKSLTTLGKVISALAEMDSGPNKNNKKKK  
TDFIPYRDSVLTWLLRENLGGNSRTAMVAALSPADINYDETLSTLRYADRAKQIRCNAVI  
NEDPNKLIRELKDEVTRLRDLLYAQGLGDI TDMTNALVGMSPSSSLALSSRAASVSSL  
HERILFAPGSEEAIERLKETEKIIAELNETWEEKLRRTEAIRMEREALLAEMGVAMREDG  
GTLGVFSPKKTPHLVNLNEDPLMSECLLYIKDGITRVGREDGERRQDIVLSGHFIKEEH  
CVFRSDSRGGSEAVVTLEPCEGADTYVNGKKVTEPSILRSGNRIIMGKSHVFRFNHPEQA  
RQERERTPCAETPAEPVDWAFARLELLEKQIDMKQEMEQLQELEDQYRREREATYLL  
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SLRDLLWGNAIFLKEANAISVELKKKVQFQFVLLTDTLYSPLPPDLLPPEAAKDRETRPF  
PRTIVAVEVQDQKNGATHYWTLEKLRQLDLMREMYDRAAEVPSSVIEDCDNVVTGGDPF  
YDRFPWFRLVGRAFYVLSNLLYPVPLVHRVAIVSEKGEVKGFLRVAVQAISADEEAPDYG  
SGVRQSGTAKISFDDQHFEKQFQSESCPVVGMSRSGTSQEELRIVEGQGGADVGPSADEV  
NNNTCSAVPPEGLLLDSSEKAALDGPLDAALDHLRLGNTFTFRVTVLQASSISA EYADIF

CQFNFIHRHDEAFSTEPLKNTGRGPPLGFYHVQNIAVEVTKSFIEYIKSQPIVFEVFGHY  
QQHPFPPLCKDVLSPLRPSRRHFPRVMPPLSKPVPATKLSTLTRPCPGPCHCKYDLLVYFE  
ICELEANGDYIPAVVDHRGGMPCMGTFLLHQGIQRRITVTLLHETGSHIRWKEVRELVVG  
RIRNTPETDESLIDPNILSLNILSSGYIHPAQDDRTFYQFEAAWDSSMHNSLLLNRVTPY  
REKIYMTLSAYIEMENCTQPAVVTKDFCMVFYSRDAKLPAASRSIRNLFSGSLRASESNR  
VTGVYELSLCHVADAGSPGMQRRRRRVLDTSVAYVRGEENLAGWRPRSDSLILDHQWELE  
KLSLLQEVEKTRHYLLLREKLETAQRPVPEALSPAISEDSESHGSSSASSPLSAEGRPSP  
LEAPNERQRELAVKCLRLLTHTFNREYTHSHVCVSASESKLSEMSVTLLRDPMSPLGVA  
TLTPSSTCPSLVEGRYGATDLRTPQPCSRPASPEPELLPEADSKKLPSPARATETDKEPQ  
RLLVPDIQEIRVSPIVSKKGYLHFLEPHTSGWARRFVVVRRPYAYMYNSDKDTVERFVLN  
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SRRRSAQMRV

>sp|O60333|KIF1B\_HUMAN Kinesin-like protein KIF1B OS=Homo sapiens GN=KIF1B PE=1 SV=5

MSGASVKVAVRVRPFNSRETSKESKCI IQMQGNSTSI INPKNPKEAPKSFSDYSYWSHT  
SPEDPCFASQNRVYNDIGKEMLLHAFEGYNVCIFAYGQTGAGKSYTMMGKQESQAGIIP  
QLCEELFEKINDNCNEEMSYSVEVSYMEIYCERVRDLLNPKNKNLVRHPLLGYPVED  
LSKLAVTSYTDIADLMDAGNKARTVAATNMNETSSRSHAVFTIVFTQKKHNETNLSTEK  
VSKISLVDLAGSERADSTGAKGTRLKEGANINKSLTTLGKVISALAEVDNCTSKSKKKKK  
TDFIPYRDSVLTWLLRENLGGNSRTAMVAALSPADINYDETLSTLRYADRAKQIKCNAVI  
NEDPNAKLVRELKEEVTRLKDLLRAQGLGDIIDIDPLIDDYSGSGSKYLKDFQNNKHRYL  
LASENQRPGHFSTASMGSLTSSPSSCSLSSQVGLTSVTSIQERIMSTPGGEEAIERLKES  
EKIIAELNETWEEKLRKTEAIRMEREALLAEMGVAIREDGGTLGVFSPKKTPHLVNLNED  
PLMSECLLYYIKDGITRVGQADAERRQDIVLSGAHIKEEHCFRSERSNSGEVIVTLEPC  
ERSETYVNGKRVSQPVQLRSGNRIIMGKNHVFRFNHPEQARAEREKTPSAETPSEPVDWT  
FAQRELLEKQGIDMKQEMEKRLQEMEILYKKEKEEADLLEQQRLDYESKLQALQKQVET  
RSLAAETEEEEEEVWPWTQHEFELAQWAFRWKWSHQFTSLRDLLWGNAYYLKEANAIS  
VELKKKVQFQFVLLTDTLYSPLPELLPTEMEKTHEDRPFPRTVVAVEVQDLKNGATHYW  
SLEKLKQRLDLMREMYDRAGEMASSAQDESETTVTGSDPFYDRFHWFKLVGSSPIFHGCV  
NERLADRTSPSTFSTADSDITELADEQQDEMEDFDDEAFVDDAGSDAGTEEGSDLFSDGH  
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DYGSGIRQSGTAKISFDNEYFNQSDFSVAMTRSGLSLEELRIVEGQGQSSEVITPPEEI  
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ESSFSSATLTPSSTCPSLVDSRSNSLDQKTPEANSRASSPCPEFEQFQIVPAVETPYLAR  
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>sp|Q9UIL4|KIF25\_HUMAN Kinesin-like protein KIF25 OS=Homo sapiens GN=KIF25 PE=2 SV=2  
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SIVEVYNNDIFDLLAKDSIAAVSGVKREVVTAKDGRTEVALLASEAVGSASKLMELVHGG  
LQLRAKHPTLVHADSSRSHLIITVTLTTASCSDSTADQACSATLPREQTEAGRAGRSRRA  
SQGALAPQLVPGNPAGHAEQVQARLQLVDSAGSECVGVSGLTGLALREMACISRSLAALA  
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>sp|Q8N4N8|KIF2B\_HUMAN Kinesin-like protein KIF2B OS=Homo sapiens GN=KIF2B PE=1 SV=3  
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QKNQTASGDSLDVRVPSKPCMLKQKKSPLWEIQKLQEQRKRRRLQQEIRARRALDVNT  
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DNVVMVHESKQKVDLTRYLQNQTFCDHAFDDKASNELVYQFTAQPLVESIFRKGMATCF  
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GGKVYDLLNWKKKLQVLEDGNQIQVVGLQEKEVCCVEEVLNLVEIGNSCRTSRQTPVNA  
HSSRSHAVFQIILKSGRIMHGKFSVLVLAGNERGADTTKASRKRQLEGAEINKSLLALKE  
CILALGQNKPHTPFRASKLTLVLRDSFIGQNSSTCMIATISPGMTSCENTLNTLRYANRV  
KKLNVDVRPYHRGHYPIGHEAPRLKSHIGNSEMSLQRDEFIKIPYVQSEEQKEIEEVET  
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>sp|O15066|KIF3B\_HUMAN Kinesin-like protein KIF3B OS=Homo sapiens GN=KIF3B PE=1 SV=1  
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AVYDWNAKQFELYDETFRPLVDSVLQGFNGTIFAYGQTGTGKTYTMEGIRGDPEKRGVIP  
NSFDHIFTHISRSQNNQYLVRASYLEIYQEEIRDLLSKDQTKRLELKERPD TGVYVKDLS  
SFVTKSVKEIEHVMNVGNQNRSGATNMNEHSSRSHAFVITIECSEVGLDGENHIRVGK  
LNLVDLAGSERQAKTGAQGERLKEATKINLSLSALGNVISALVDGKSTHIPPYRDSKLTRL  
LQDSLGGNAKTMVANVPASYNVEETLTTLRYANRAKNIKNPRVNEDPKDALLREFQE  
EIALRKAQLEKRSIGRRKRREKRREGGGSGGGGEEEEEGEEGDDKDDYWREQQEK  
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IVDHTNEQQKILEQKRQEIAEQKRREIREIQQMESRDEETLELKETYSSLQQEVDIKTKK  
LKKLF SKLQAVKAEIHDLQEEHIKERQELETQNELTRECLKHLIENFI PLEEKSKIM  
NRAFFDEEEDHWKLHPITRLENQMMKRPVSAVG YKRPLSQHARMSMMIRPEARYAENI  
VLELDMPSTRTRDYEGPAIAPKVQAALDAALQDEDEIQVDASSFESTANKKSKARPKSG  
RKSGSSSSSGTPASQLYPQSRGLVPK

>sp|O60282|KIF5C\_HUMAN Kinesin heavy chain isoform 5C OS=Homo sapiens GN=KIF5C PE=1 SV=1  
MADPAECSIKVMCRFRPLNEAEILRGDKFIPKFKGDETVVIGQGKPYVFD RVLPPNTTQE  
QVYNACAKQIVKDVLEGYNGTIFAYGQTSSGKTHTMEGKLHDPQLMGIIPRIAHDIFDHI  
YSMDENLEFHIKVSFEIYLDKIRDLLDVSKTNLAVHEDKNRPVYPVKGCTERFVSSPEEV  
MDVIDEGKANRHVAVTNMNEHSSRSHSIFLINIKQENVETEKKLSGKLYLVDLAGSEKVS  
KTGAEGAVLDEAKNINKSLSALGNVISALAEGTKTHVPYRDSKMTRILQDSLGGNCRTTI  
VICCSPSVFNEAETKSTLMFGQRAKTIKNTVSVNLELTAEWKKKYEKEKEKNKTLKNVI  
QHLEMELNRWRNGEAVPEDEQISAKDQKNLEPCDNTPIIDNIAPVVAGISTEEKEYDEE  
ISSLYRQLDDKDDEINQQSQAELKQKQMLDQDELLASTRRDYEKIQEELTRLQIENEA



KDEVKEVLQALEELAVNYDQKSQEVEDKTRANEQLTDELAQKTTTLTTTQRELSQLQELS  
NHQKKRATEILNLLLKDLGEIGGIIGTNDVKTLADVNGVIEEFTMARLYISKMKSEVKS  
LVNRSKQLESAQMDSNRKMNASERELAACQLLISQHEAKIKSLTDYMQNMEQKRRQLEES  
QDSLSEELAKLRAQEKMEHVSFQDKEKEHLTRLQDAEEMKKALEQQMESHREAHQKQLSR  
LRDEIEEKQKIIDEIRDLNQKLQLEQEKLSSDYNKLIKIEDQEREMKLEKLLLLNDKREQA  
REDLKGLEETVSRELQTLHNLRLKLFVQDLTTRVKKSVELDNDGGGSAAQKQKISFLENN  
LEQLTKVHKQLVRDNADLRCELPKLEKRLRATAERVKALESALKEAKENAMDRKRYQQE  
VDRIKEAVRAKNMARRAHSQAIAKPIRPGHYPASSPTAVHAIRGGGSSSNSTHYQK

>sp|Q9HAQ2|KIF9\_HUMAN Kinesin-like protein KIF9 OS=Homo sapiens GN=KIF9 PE=1 SV=4

MGTRKKVHAFVRVKPTDDFAHEMIRYGDDKRSIDHLLKKDIRRGVVNNQQTDSFKLDGV  
LHDASQDLVYETVAKDVVSQALDGYNGTIMCYGQTGAGKTYTMMGATENYKHRGILPRAL  
QQVFRMIEERPTHATVVRVSYLEIYNESLFDLLSTLPYVGPSVTPMTIVENPQGVFIKGL  
SVHLTSQEEDAFSLLFEGETNRIIASHTMNKNSSRSHCIFTIYLEAHSRTLSEEKYITSK  
INLVDLAGSERLGKSGSEGQVLKEATYINKSLSFLEQAIIALGDQKRDHIPFRQCKLTHA  
LKDSLGGNCNMVLVTNIYGAAQLEETLSSLRFASRMKLVTEPAINEKYDAERMVKNLE  
KELALLKQELAIHDSLNTRTFVTDPMDEIQIAEINSQVRRYLEGTLDEIDIISLRQIKE  
VFNQFRVVLSSQEQEVESTLRKRYTLIDRNDFAAISAIQKAGLVDVDGHLVGEPEGQNFG  
LGVAPFSTKPGKAKSKKTFKEPLSSLARKEGASSPVNGKDLDYVSTSKTQLVPSSKDGD  
VKDMLSRDRETSSIEPLPSDSPKEELRPIRPDTPPSKPVAFEEFKNEQGSEINRIFKENK  
SILNERRKRASETQHINAIKREIDVTKEALNFQKSLREKQKGYENKGLMIIDEEFLLI  
LKLKDLKKQYRSEYQDLRDLRAEIQYCQHLVDQCRHRLMEFDIWNESFVIPEDMQMAL  
KPGGSIRPGMVPVNRIVSLGEDDQDKFSQLQQRVLPEGPDSISFYNAKVKIEQKHNYLKT  
MMGLQQAHRK

>sp|Q03426|KIME\_HUMAN Mevalonate kinase OS=Homo sapiens GN=MVK PE=1 SV=1

MLSEVLLVSAPGKIVLHGEHAVVHGKVALAVSLNLRFTLRLQPHSNGKVDLSLPNIGIKR  
AWDVARLQSLDTSFLEQGDVTTPTSEQVEKLKEVAGLPDDCAVTERLAVLAFLYLYLSIC  
RKQRALPSLDIVVWSELPPGAGLGSSAAYSVCLAAALLTVCEEIPNPLKDGCNVNRWTK  
DLEL INKWAQGERMIHGNPSGVDNAVSTWGGALRYHQGKISSLKRSALQILLTNTKVP  
RNTRALVAGVRNRLKFPEIVAPLLTSIDAISLECERVLGEMGEAPAPEQYLVLEELIDM  
NQHHLNALGVGHASLDQLCQVTRARGLHSLTGAGGGGCGITLLKPGLEQPEVEATKQAL  
TSCGFDCLETSIGAPGVSISHSATSLDSRVQQALDGL

>sp|P33176|KINH\_HUMAN Kinesin-1 heavy chain OS=Homo sapiens GN=KIF5B PE=1 SV=1

MADLAECNIKVMCRFRPLNESEVNRGDKYIAKFQGEDTVVIASKPYAFDRVFSSTSSEQ  
VYNDCAKKIVKDVLEGYNGTIFAYGQTSSGKTHMEGKLHDPEGMGIIIPRIVQDIFNYIY  
SMDENLEFHIKVSYFEIYLDKIRDLLDVSKTNLSVHEDKNRVPYVKGCTERFVCSPDEVM  
DTIDEGKSNRHVAVTNMNEHSSRSHSIFLINVKQENTQTEQKLSGKLYLVDLAGSEKVS  
TGAEGAVLDEAKNINKSLSALGNVISALAEGSTYVPYRDSKMTRILQDSLGGNCRTTIVI  
CCSPSSYNESETKSTLLFGQRAKTIKNTVCNVNELTAEQWKKYEKEKEKNKILRNTIQW  
LENELNRWRNGETVPIDEQFDKEKANLEAFTVDKDITLTNDKPATAIGVIGNFTDAERRK  
CEEEIAKLYKQLDDKDEEINQQSQLVEKLKTQMLDQEELLASTRRDQDNMQAELNRLQAE  
NDASKEEVKEVLQALEELAVNYDQKSQEVEDKTEYELLSDELNQKSATLASIDAELQKL  
KEMTNHQQKRAAEMMASLLKDLAEIGIAGVGNNDVKQPEGTGMIDEEFTVARLYISKMKSE  
VKTMVKRCKQLESTQTESNKKMEENEKELAACQLRISQHEAKIKSLTEYLNVEQKKRQL  
EESVDALSEELVQLRAQEKVHEMEKEHLNKVQTANEVKQAVEQQIQSHRETHQKQISSLR

DEVEAKAKLITDLQDNQKMMLEQERLRVEHEKLNKATDQEKSRKLHELTVMQDRREQARQ  
DLKGLEETVAKELQTLHNLRLKLFVQDLATRVKKSAEIDSDDTGGSAAQKQKISFLENNLE  
QLTKVHKQLVRDNADLRCELPKLEKRLRATAERVKALESALKEAKENASRDRKRYQQEVD  
RIKEAVRSKNMARRGHSAQIAKPIRPGQHPAASPTHPSAIRGGGAFVQNSQPVAVRGGGG  
KQV

>sp|Q6UWL6|KIRR2\_HUMAN Kin of IRRE-like protein 2 OS=Homo sapiens GN=KIRREL2 PE=1 SV=2

MLMRVPALLVLLFCFRGRAGSPHFLQPEDLVVLLGEEARLPCALGAYWGLVQWTKSG  
LALGGQRDLPGWSRWISGNAANGQHDLHIRPVELEDEASYECQATQAGLSRPAQLHVL  
VPPEAPQVLGGPSVSLVAGVPANLTCRSRGDARPTPELLWFRDGVLLDGATFHQTLLKEG  
TPGSVESTLTLPFSHDDGATFVCRARSQALPTGRDTAITLSLQYPPEVTLSASPHTVQE  
GEKVIFLCQATAQPPVTGYRWAKGGSPVLGARGPRLEVADASFLETPVSCEVSNAVGSA  
NRSTALDVLFGPILQAKPEPVSDVGEDASFSCAWRGNPLPRVTWTRRGAQVLGSGATL  
RLPSVGPEDAGDYVCRAEAGLSGLRGGAEARLTVNAPPVVTALHSAPAFLRGPARLQCL  
VFASPAPDAVVWSWDEGFLEAGSQGRFLVETFPAPESRGLGGLISVLHISGTQESDFS  
RSFNCSARNRLGEGGAQASLGRDDLPTVRIVAGVAAATTLLMVITGVALCCWRHSKAS  
ASFSEQKNLMRIPGSSDGSSSRGPEEEETGSREDRGPVHTDHSDLVLEEKGTLETKDPT  
NGYKYVRGVSVSLSLGEAPGGGLFLPPPSPLGPPGTPTFYDFNPHLGMVPPCRLYRARAG  
YLTPHPRAFTSYIKPSTFGPPDLAPGTPPFYAAFTPSHPRLQTHV

>sp|Q5H943|KKLC1\_HUMAN Kita-kyushu lung cancer antigen 1 OS=Homo sapiens GN=CT83 PE=1  
SV=1

MNFYLLASSILCALIVFWKYRRFQRNTGEMSSNSTALALVRPSSSGLINSNTDNNLAVY  
DLSRDILNNFPHSIARQKRILVNLSMVENKLVELEHTLLSKGFRGASPHRKST

>sp|Q8IYD2|KLD8A\_HUMAN Kelch domain-containing protein 8A OS=Homo sapiens GN=KLHDC8A PE=2  
SV=2

MEVPNVKDFQWKRLAPLPSRRVYCSLLETGGQVYAIGGCDDNGVPMDCFEVYSPEADQWT  
ALPRLPTARAGVAVTALGKRIMVIGGVGTNQLPLKVVEMYNIDEGKWKKRSMLREAAMGI  
SVTAKDYRVYAAGGMGLDLRPHNLQHYDMLKDMWVSLAPMPTPRYAATSFLRGSKIYVL  
GGRQSKYAVNAFEVFDIETRSWTKFPNIPYKRAFSSFVTLDNHLYSLGGLRQGRLYRQPK  
FLRTMDVDFMEQGGWLKMERSFFLKKRRADFVAGSLSGRVIVAGGLGNQPTVLETAFAFH  
PGKNKWEILPAMPTPRCACSSIVVKNCLLAVGGVNQGLSDAVEALCVSDS

>sp|Q13887|KLF5\_HUMAN Krueppel-like factor 5 OS=Homo sapiens GN=KLF5 PE=1 SV=2

MATRVLSMSARLGPVPQPPAPQDEPVFAQLKPVLGAANPARDAALFPGEELKHAHHRPQA  
QPAPAQAPQPAQPPATGPRLPPEDLVQTRCEMEKYLTPQLPPVPIIPEHKKYRRDSASVV  
DQFFTDTEGLPYSINMNVFLPDITHLRTGLYKSQRPCVTHIKTEPVAFISHQSETTAPPP  
APTQALPEFTSIFSSHQTAPEVNNIFIKQELPTDLHLSVPTQQGHLYQLLNTPDLDMP  
SSTNQTAAMDTLNVMSAAMAGLNTHTSAPVQTAVKQFQGMPPCTYTMPSQFLPQQATYF  
PPSPSPSEPGSPDRQAEMLNLTTPPSYAATIASKLAIHNPNLPTTLPVNSQNIQPVRYN  
RRSNPDLEKRIHYCDYPGCTKVYTKSSHLKAHLRTHTEGKPYKCTWEGCDWRFARSDEL  
TRHYRKHTGAKPFQCGVCNRSFSRSDHLALHMKRHQN

>sp|Q13886|KLF9\_HUMAN Krueppel-like factor 9 OS=Homo sapiens GN=KLF9 PE=1 SV=1

MSAAAYMDFVAAQCLVSI SNRAAVPEHGVAPDAERLRLPEREVTKEHGDPGDTWKDYCTL  
VTIAKSLDLNKYRPIQTPSVCSDSLSPDEDMGSDSDVTTESGSSPSHSPEERQDPGSA  
PSPLSLLHPGVAAGKGHASEKRHKCPYSGCGKVYGKSSHLKAHYRVHTGERPFPCTWPDC  
LKKFSRDELTRHYRTHTEGKQFRCLCEKRFMRSDHLTKHARRHTEFHPSMIKRSKKAL

ANAL

>sp|P60371|KR106\_HUMAN Keratin-associated protein 10-6 OS=Homo sapiens GN=KRTAP10-6 PE=2 SV=2

MAASTMSVCSSDLSYGSRVCLPGSCDSCSDSWQVDDCPESCCEPPCCAPAPCLSLVCTPV  
SRVSSPCCPVTCEPSPCQSGCTSSCTPSCCQSSCQLACCASSPCQQACCVPVCKTVCC  
KPVCCSVVCCGDSSCCQSSCQSACCTSSPCQQACCVPVCKPVCSGISSCCQSSCVS  
CVSSPCCQAVCEPSPCQSGCTSSCTPSCCQSSCQPTCCTSSPCQQACCVPVCCVPVCCV  
PTCEDSSSSCCQSSCQPACCTSSPCQHACCVPVCSGASTSCCQSSCQPACCTASCCRP  
SSSVSLLCHPVCKSTCCVPVPSCGASASSCQPSCCRTASCVSLLCRPMCSRPA CYSLCSG  
QKSSC

>sp|P60409|KR107\_HUMAN Keratin-associated protein 10-7 OS=Homo sapiens GN=KRTAP10-7 PE=1 SV=2

MAASTMSVCSSDLSYGSRVCLPGSCDSCSDSWQVDDCPESCCEPPCCAPSCCAPAPCLSL  
VCTPVSRVSSPCCPVTCEPSPCQSGCTSSCTPSCCQSSCQLACCASSPCQQACCMPVCC  
KTVCKPVYCVPVCSGDSSCCQSSCQSACCTSSPCQQACCVPICCKPVCSGISSCCQ  
SSCVSCVSSPCCQAVCEPSPCQSGCISCTPSCCQSSCQPACCTSSPCQQACCVPVCK  
PVCCVPTCSDDSGCCQPACCTSSQSQQGCCVPVCKPVCCVPVCSGASSCCQSSCQP  
ACCTTSCCRPSSSVSLLCRPVCRPTCCVPVPSCCAPTSSCQASCCRPASCVSLLCRPACS  
RPACCGPTSTQKSSC

>sp|P59990|KR121\_HUMAN Keratin-associated protein 12-1 OS=Homo sapiens GN=KRTAP12-1 PE=1 SV=1

MCHTSCSSGCQPACCAPSPCQASCYIPVGCQSSVCVPVSFKPAVCVPVRCQSSVCVPVSC  
RPVYAAAPSCQSSGCCQPSCTSVLCRPISCSTPSCC

>sp|P59991|KR122\_HUMAN Keratin-associated protein 12-2 OS=Homo sapiens GN=KRTAP12-2 PE=1 SV=1

MCHTSCSSGCQPACCAPSPCQACCVSSCQASCCVPVGCQSSVCVPVSFKPAVCLPVSC  
QSSVCVPMSFKSAVCVPVSCQSSVCVPVSCRPIVCAAPSCQSSLCVPVSCRPVYAAAPSC  
QSSGCCQPSCTSVLCRPISYISSCC

>sp|Q8IUC0|KR131\_HUMAN Keratin-associated protein 13-1 OS=Homo sapiens GN=KRTAP13-1 PE=2 SV=2

MSYNCCSGNFSSRSCGGYLHYPASSCGFSYPSNQVYSTDL CSPSTCQLGSSLYRGCQQT  
WEPTSCQTSYVESSPCQTSCYRPRTSLLCSPCQTTYSGSLGFGSSSCRS LGYGRSCYSV  
GCGSSGFRSLGYGGCGFPSLGYGVGFCRPTYLASRSCQSSCYRPTCGSGFY

>sp|Q3LI77|KR134\_HUMAN Keratin-associated protein 13-4 OS=Homo sapiens GN=KRTAP13-4 PE=2 SV=1

MSYNCCSRNFSSRSFGGYLYPGSYPSLVYSTALCSPSTCQLRSSLYRDCQKTCWEPAS  
CQKSCYRPRTSILCCPCQTTCSGLGFRSSSCRSQGYGRCCYSLGNGSSGFRFLKYGGC  
GFPSLSYGSRFCYPNYLASGAWQSSCYRPICGSRFYQFTC

>sp|Q3LI76|KR151\_HUMAN Keratin-associated protein 15-1 OS=Homo sapiens GN=KRTAP15-1 PE=2 SV=2

MSYNCCSGNFSSCCFGSYLRYPVSTYNLFYPSNAIYSPNTCQLGSSLYNGCQETYCEPTS  
CQTSTCLARSYQTSYC PKNSIFCSPRQTNYIRSLGCGNTGLGSLGCGSTGFQSLDCGSS  
FYHPTTFSSRNFAQTCY

>sp|A8MUX0|KR161\_HUMAN Keratin-associated protein 16-1 OS=Homo sapiens GN=KRTAP16-1 PE=3 SV=1

MSGSCSSRKFSVPATSLCSTEVSCGGPICLPSSCQSQTWQLVTCQDSCGSSSCGPQCRQ  
PSCPVSQAQPLCCDPVICEPSCSVSSGCQPVCEATTCEPSCSVSNYQPVCFEATICE  
PSCSVSNCCQPVCFEATVCEPSCSVSSCAQPVCEPAICEPSCSVSSCCQPVGSEATSCQ  
PVLVPTSCQPVLCSSCCQPVVCEPSCSAVCTLPSCCQPVVCEPSCCQPVCPPTPTCSV  
TSSCAVCCDPSPCEPSCSESSICQPATCVLVCEPVCLRPVCCVQSSCEPPSVPSTCQE  
PSCCVSSICQPICSEPSPCSPAVCVSSPCQPTCYVVKRCPVCPEPVSCPSTSCRPLSCS  
PGSSASAICRPCTCPRTFYIPSSSKRPCSATISYRPVSRPICRPICSGLLTYRQPYMTSIS  
YRPACYRPCYSILRRPACVTSYSCRPVYFRPCTESDSCKRDCKKSTSSQLDCVDTTPCK  
VDVSEEAPCQPTAKPISPTTREAAAAQPAASKPANC

>sp|Q3LI72|KR195\_HUMAN Keratin-associated protein 19-5 OS=Homo sapiens GN=KRTAP19-5 PE=1 SV=1

MNYYGNYGGGLGYGYGGFDDLGYGYGCGGSGFRRLGYGGGYGGYGYSGFGGYGYRSCR  
SCYGGYGFSGFY

>sp|Q3LI62|KR204\_HUMAN Putative keratin-associated protein 20-4 OS=Homo sapiens GN=KRTAP20-4 PE=3 SV=1

MSYYSHLSGGLGCLAVAVTMGRTVAVAAYGRCRHGCHSSYSAR

>sp|Q3MIV0|KR221\_HUMAN Keratin-associated protein 22-1 OS=Homo sapiens GN=KRTAP22-1 PE=3 SV=2

MSFDNNYHGGQGYAKGGLGCSYGCGLSGYGYACYCPWCYERSWFSGCF

>sp|Q9BYQ6|KR411\_HUMAN Keratin-associated protein 4-11 OS=Homo sapiens GN=KRTAP4-11 PE=1 SV=2

MVNCCGVSVC SHQGCGRDLCQETCCRPSCCETTCCRTTYCRPSCCVSSCCRPQCCQSVCC  
QPTCCRPCCISSCCRPSCCVSSCCKPQCCQSMCCQPTCCRPCCISSCCRPSCCVSSCC  
RPQCCQSVCCQPTCCHPSCSISCCRPSCCESSCCRPCCCLRPVCGRVSCHTTCYRPTCV  
ISSCPRLCCASSCC

>sp|Q07627|KRA11\_HUMAN Keratin-associated protein 1-1 OS=Homo sapiens GN=KRTAP1-1 PE=2 SV=1

MACCQTSFCGFPSCSTSGTCGSSCCQPSCCETSSCQPRCCETSCCQPSCCQTSFCGFPSF  
STGGTCDSSCCQPSCCETSCCQPSYQTSSCGTGCGIGGGIGYGQEGSSGAVSTRIRWCR  
PDCRVEGTCLPPCCVVSTPPSCQLHHAEASCCRPSCYCGQSCCRPVCCCYCSEPTC

>sp|Q9BYU5|KRA21\_HUMAN Keratin-associated protein 2-1 OS=Homo sapiens GN=KRTAP2-1 PE=2 SV=2

MTGCCGSGTFSSLSYGGGCCQPCCRDPCCCRPVTCQTTVCRPVTCVPRCTRPICEPCRR  
PVCCDPCSLQEGCCRPITCCPSSCTAVVCRPCCWATTCCQPVSVQSPCCRPPCGQPTPCS  
TTCRTSSC

>sp|Q9BYR9|KRA24\_HUMAN Keratin-associated protein 2-4 OS=Homo sapiens GN=KRTAP2-4 PE=2 SV=1

MTGCCGSGTLSSLSYGGGCCQPCCRDPCCCRPVTCQTTVCRPVTCVPRCTRPICEPCRR  
PVCCDPCSLQEGCCRPITCCPSSCTAVVCRPCCWATTCCQPVSVQSPCCRPPCGQPTPCS  
TTCRTSSC

>sp|Q8N9T8|KRI1\_HUMAN Protein KRI1 homolog OS=Homo sapiens GN=KRI1 PE=1 SV=3

MPEPRGSSQLRVNAAFAARYNRYREREELQRLKDRYGDRDSSSDSSSESDDSSDERVEFDP

QQERDFYKTL SLLKKKDPRIYQKDATFYNRTASSSDSEEDPEALEKQKKVRP MYLKDYER  
KVILEKAGKYVDEENS DGETSNHRLQETSSQSYVEEQQLKESFRAFVEDSEDEDGAGEG  
GSSLLQKRAKTRQEKAQEEADYIEWLKGQKEIRNPDSLKELTHLKEYWNPDELDEGERFL  
RDYILNKRYEEEEEEEEDEEMEEEEGVHGPPVQLAVDDSSDEGELFLKKQEDFEQKYNF  
RFEEDSASVKTYPRSIASSVRRKDERRKEKREETRERKKREKAKKQEELKQLKNLKRKE  
ILAKLEKL RKV TGNEMLGLEEGDLEDDFDP AQHDQLMQKCFGDEYYGAVEEEKPFEEEE  
GLEDDWNWDTWDGPEQEGDWSQQELHCEDPNFNMDADYDPSQPRKKKREAPLTGKKKRKS  
PFAAAVGQEKPVFEPGDKTFEEYLD EYRLDYEDIIDDLPCRFKYRTVVP CDFGLSTEEI  
LAADDKELNRWCSLKKTCMYRSEQEELRDKRAYSQKAQNSWKKRQVFKSLCREEAETPAE  
ATGKPQRDEAGPQRQLPALDGSLMGPESPPAQEEEAPVSPHKKPAPQKRRRAKKARLLGP  
TVMLGGCEFSRQLQAFGLNPKRLHFRQLGRQRKQGPKNSS

>sp|Q9NSB2|KRT84\_HUMAN Keratin, type II cuticular Hb4 OS=Homo sapiens GN=KRT84 PE=2 SV=2

MSCRSYRVSSGHRVGNFSSCSAMTPQNLNRFRANSVSCWSGPGFRGLGSFGSRSVITFGS  
YSPRIA AVGSRIHCGVRFGAGCGMGFGDGRGVGLGPRADSCVGLGFGAGSGIGYFGGPG  
GFGYRVGGVGVAAPSITAVTVNKSLLTPLNLEIDPNAQVRVKDEKEQIKTLNKNFASFI  
DKVRFLEQQNKLL ETKWSFLQE QKCI RSNLEPLFESYITNLRRQLEVLVSDQARLQAERN  
HLQDVLEGFKKKYEEEVVCRAAENEFVALKKDVDAAFMNKSDLEANVDTLTQEIDFLKT  
LYMEEIQLLQSHISETSVIVKMDNSRDLNLDGIIAEVKAQYEEVARRSRADAEAWYQTKY  
EEMQVTAGQHCDNLRNIRNEINELTRLIQRLKAEIEHAKAQRACLEAAVAEAEQQGEATL  
SDAKCKLADLECALQQAQDMARQLCEYQELMNAKLGLDIEIATYRRLLEGEESRLCEGV  
GPVNISVSSSRGGLVCGPEPLVAGSTLSRGGVTFSGSSSVCATSGVLASCGPSLGGARVA  
PATGDLLSTGTRSGSMLISEACVPSVPCPLPTQGGFSSCSGGRSSSVRFVSTTTSCRTKY

>sp|O43790|KRT86\_HUMAN Keratin, type II cuticular Hb6 OS=Homo sapiens GN=KRT86 PE=1 SV=1

MTCSYCGGRAFCISACGPRPGRCCITAAPYRGISCYRGLTG GFGSHSVCGGFRAGSCG  
RSFGYRSGGVCSPPCITTVSVNESLLTPLNLEIDPNAQCVKQEEKEQIKSLNSRFAAF  
IDKVRFL EQQNKLL ETKLQFYQNRECCQSNLEPLFEGYIETLRREAECVEADSGRLASEL  
NHVQEVLEGYKKKYEEEVSLRATAENEFVALKKDVDCAYLRKSDLEANVEALIQEIDFLR  
RLYEEEIRVLQSHISDTSVVVKLDNSRDLNMDCI IAEIKAQYDDIVTRSRAEAE SWYRSK  
CEEMKATVIRHGETLRRTKEEINELNRM IQRLTAEVENAKCQNSKLEAAVAQSEQQGEAA  
LSDARCKLALEGALQKAKQDMACLI REYQEV MNSKLGLDIEIATYRRLLEGEEQRLCEG  
VGSVNVCVSSSRGGVVCGLCASTTAPVVSTRVSSVPSNSNVVVGTTNACAPSARVGVCG  
GCKRC

>sp|Q15418|KS6A1\_HUMAN Ribosomal protein S6 kinase alpha-1 OS=Homo sapiens GN=RPS6KA1  
PE=1 SV=2

MPLAQLKEPWPLMELVPLDPENGQTS GEEAGLQPSKDEGLKEISITHHV KAGSEKADPS  
HFELLKVLGQGSFGKVFLVRKVTRPDSGHL YAMKVLKKATLKVRDRVRTKMERDILADVN  
HPFVVKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALGLDHLHS  
LGI IYRDLKPENILLDEEGHIKLTDFGLSKEAIDHEKKAYSFCGTVEYMAPEVVNRQGHS  
HSADWWSYGVLMFEMLTGSLPFQ GKDRKETMTLILKAKLGMPQFLSTEAQSLLRALFKRN  
PANRLGSGPDGAEEIKRHVFYSTIDWNKLYRREIKPPFKPAVAQPDDTFYFDTEFTS RTP  
KDSPGIPPSAGAHQLFRGFSFVATGLMEDDGKPRAPQAPLHSVVQQLHGKNLVFSDGYVV  
KETIGVGSYSECKRCVHKATNMEYAVKVIDKSKRDPSEEIEILLRYGQHPNIITLKD VYD  
DGKHVYLVTELMRGELLDKILRQKFFSEREASFVLHTIGKTVEYLHSQGVVHRDLKPSN  
ILYVDESGNPECLRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDEGCDIWSL

GILLYTMLAGYTPFANGPSDTPPEILTRIGSGKFTLSGGNWNVTSETAKDLVSKMLHVDP  
HQRLTAKQVLQHPWVTQKDKLPQSQLSHQDLQLVKGAMAATYSALNSSKPTPQLKPIESS  
ILAQRVRKLPSTTL

>sp|P51812|KS6A3\_HUMAN Ribosomal protein S6 kinase alpha-3 OS=Homo sapiens GN=RPS6KA3  
PE=1 SV=1

MPLAQLADPWQKMAVESPSDSAENGQQIMDEPMGEEEINPQTEEVSIKEIAITHHVKEGH  
EKADPSQFELLKVLGGQSGFKVFLVKKISGSDARQLYAMKVLKATLKVRDRVRTKMERD  
ILVEVNHPFIVKLHYAFQTEGKLYLILDFLRGGDLFTRLKEVMFTEEDVKFYLAELALA  
LDHLHSLGIYRDLKPENILLDEEGHIKLTDFGLSKESIDHEKKAYSFCGTVEYMAPEVV  
NRRGHTQSADWWSFGVLMFEMLTGTLPFQGKDRKETMTMILKAKLGMPQFLSPEAQSLLR  
MLFKRNPANRLGAGPDGVEEIKRHSFFSTIDWNKLYRREIHPPFKPATGRPEDTFYFDPE  
FTAKTPKDSPIPPSANAHQLFRGFSFVAITSDDSQAMQTVGVHSIVQQLHRNSIQFTD  
GYEVKEDIGVGSYSVCKRCIHKATNMEFAVKIIDKSKRDPTEEIEILLRYGQHPNIITLK  
DVYDDGKYVYVVTLMKGGELDKILRQKFFSEREASAVLFTITKTVEYLHAQGVVHRDL  
KPSNILYVDESGNPESIRICDFGFAQLRAENGLMTPCYTANFVAPEVLKRQGYDAACD  
IWSLGVLLYTMLTGYTPFANGPDDTPEELARIGSGKFSLSGGYWNSVSDTAKDLVSKML  
HVDPHQRLTAALVLRHPWIVHWDQLPQYQLNRQDAPHLVKGAMAATYSALNRNQSPVLEP  
VGRSTLAQRRGIKKITSTAL

>sp|Q9UBS0|KS6B2\_HUMAN Ribosomal protein S6 kinase beta-2 OS=Homo sapiens GN=RPS6KB2 PE=1  
SV=2

MAAVFDLDLETEEGSEGEPELSPADACPLAELRAAGLEPVGHYEEVELTETSVNVGPE  
RIGPHCFELLRVLGKGGYGKVFQVRKVQGTNLGKIYAMKVLKAKIVRNAKDTAHTRAER  
NILESVKHPFIVELAYAFQTGGKLYLILECLSGGELFTHLEREGIFLEDTACFYLAELITL  
ALGHLHSQGIYRDLKPENIMLSSQGHIKLTDFGLCKESIHEGAVTHTFCGTIEYMAPEI  
LVRSGHNRADVWWSL GALMYDMLTGSPPF TAENRKKTMDKII RGKLALPPYLTPDARDLV  
KKFLKRNPSQRIGGGPGDAADVQRHPFFRHMNWDDLAWRVDPPFRPCLQSEEDVSQFDT  
RFTRQTPVDSDDTALSESANQAF LGFTYVAPSVLDSIKEGFSFQPKLRSPRRLNSSPRA  
PVSPKFSPFEGFRPSPSLPEPTELPLPPLPPPPSTTAPLPIRPPSGTKKSKRGRGRP  
GR

>sp|Q8IVT5|KSR1\_HUMAN Kinase suppressor of Ras 1 OS=Homo sapiens GN=KSR1 PE=1 SV=3

MDRAALRAAAMGEKKEGGGGDAAAAEGGAGAAASRALQQCGQLQLIDISIGSLRGLRT  
KCAVNDLTQQEIRTLEAKLVRYICKQRQCKLSVAPGERTPELNSYPRFSDWLYTFNVRP  
EVVQEIPRDLTLDALLEMNEAKVKETLRRCGASGDECGRLQYALTCLRKVTGLGGEHKED  
SSWSSLDARRESGSGPSTDTLSAASLPWPPGSSQLGRAGNSAQGPRISISVSALPASDSPT  
PSFSEGLSDTCIPLHASGRLTPRALHSFITPPTPQLRRHTKLKPPRTPPPPSRKVFQLL  
PSFPTLTRSKSHESQLGNRIDDVSSMRFDLSHGSPQMVRDGLSVTHRFSTKSWLSQVC  
HVCQKSMIFGVKCKHCRCLKCHNKCTKEAPACRISFLPLTRLRRTESVPSDINNPDRAAE  
PHFGTLPKALTKKEHPPAMNHL DSSSNPSSTTSSTPSSPAPFPTSSNPSSATTPNPSPG  
QRDSRFNFPAAYFIHHRQQFIFPVPSAGHCWKCLLIAESLKENAFNISAFAHAAPLPEAA  
DGTRLDDQPKADVLEAHEAEAEPEAGKSEAEDDEDEVDDLPSRRPWGPI SRKASQTS  
VYLQEWDPFEQVELGEPIGQGRWGRVHRGRWHGEVAIRLLEMDGHNQDHLKLFKKEVMN  
YRQTRHENVVLFMGACMNPHLAIITSFCKGRTLHSFVRDPKTSLDINKTRQIAQEIIKG  
MGYLHAKGIVHKDLKSKNVFYDNGKVVITDFGLFGISGVVREGRENQLKLSHDWLCYLA  
PEIVREMTPGKDEDQLPFSKAADVYAFGTWVYELQARDWPLKNQAAEASIWQIGSGEGMK

RVLTSVSLGKEVSEILSACWAFDLQERPSFSLMDMLEKLPKLNRRLSHPGHFWKSADIN  
SSKVVPFRFERFGLGVLESSNPKM

>sp|Q6VAB6|KSR2\_HUMAN Kinase suppressor of Ras 2 OS=Homo sapiens GN=KSR2 PE=1 SV=2

MDEENMTKSEEQQPLSLQKALQQCELQNMIDLSISNLEGLRTKCATSNDLTQKEIRTLE  
SKLVKYFSRQLSCKKKVALQERNAELDGFQRLRHWFRIVDVRKEVLEEISPGQLSLEDLL  
EMTDEQVCETVEKYGANREECARLNASLSCLRNVMHSGGNLSKQDWTIQWPTTETGKENN  
PVCPEPTPWIRTHLSQSPRVPSKCVQHYCHTSPTPGAPVYTHVDRLTVDAYPGLCPPPP  
LESGHRSPPSPRQRHAVRTPRTPNIVTTVTPPGTPPMRKNKLKPPGTPPPSSRKLIH  
LIPGFTALHRSKSHFEQLGHRVDEAHTPKAKKSKPLNLKIHSSVGSCENIPSSQQRSPLL  
SERSLSFFVGHAPFLPSTPPVHTEANFSANTLSVPRWSPQIPRRDLGNSIKHRFSTKYW  
MSQTCTVCGKGMFLGLCKKNCKLKCHNKCTKEAPPCHLLI IHRGDPARLVRTESVPCDIN  
NPLRKPPRYSDLHISQTLPKTNKINKDHIPVPYQPDSSSNPSSTTSSTPSSAPPLPPSA  
TPPSPLHPSPQCTRQQKNFNLPASHYYKYKQQFIFPDVVPVPETPTRAPQVILHPVTSNP  
ILEGNPLLQIEVEPTSENEEVHDEAESEDDFEEMNLSLLSARSFPRKASQTSIFLQEW  
IPFEQLEIGELIGKGRFGQVYHGRWHGEVAIRLIDIERDNEDQLKAFKREVMAYRQTRHE  
NVVLFMGACMSPPHLAIITSLCKGRTLYSVVRDAKIVLDVNKTRQIAQEIVKGMGYLHAK  
GILHKDLKSKNVFYDNGKVITDFGLFSISGVLQAGRREDKLRIQNGWLCHLAPEIIRQL  
SPDTEEDKLPFSKHSDFALGTIYWELHAREWPFKTQPAEAIWQMGTMKPNLSQIGMG  
KEISDILLFCWAFEQEERPTFTKLMDMLEKLPKRNRRLSHPGHFWKS AEL

>sp|P60985|KTDAP\_HUMAN Keratinocyte differentiation-associated protein OS=Homo sapiens  
GN=KRTDAP PE=1 SV=1

MKIPVLPVAVLLSLLVLHSAQGATLGGPEEESTIENYASRPEAFNTPFLNIDKLRSAFKA  
DEFLNWHALFESIKRKLPFLNWDAPFKLKGLRSATPDAQ

>sp|P05412|JUN\_HUMAN Transcription factor AP-1 OS=Homo sapiens GN=JUN PE=1 SV=2

MTAKMETTFYDDALNASFLPSESGPYGYSNPKILKQSMTLNLADPVGSLKPHLRAKNSDL  
LTSPDVGLLKLASPELERLI IQSSNGHITTTPTPTQFLCPKNVTDEQEGFAEGFVRALAE  
LHSQNTLPSVTSAAQPVNGAGMVAPAVASVAGGSGSGGFSASLHSEPPVYANLSNPNPGA  
LSSGGGAPSYGAAGLAFPAQPPHLLPQQMPVQHPRLQALKEEPQTVPEMPGETP  
PLSPIDMESQERIKAEKRMRNRNIAASKCRKRKLRIARLEEKVKTLLKAQNSELASTANM  
LREQVAQLKQKVMNHVNSGCQLMLTQQLQTF

>sp|Q6NSJ0|K1161\_HUMAN Uncharacterized family 31 glucosidase KIAA1161 OS=Homo sapiens  
GN=KIAA1161 PE=1 SV=2

MLQNPQEKSQAYPRRRRPGCYAYRQNPEIAAAAAMYTFLPDNFSPAKPKPSKDLKPLLGS  
AVLGLLLVLAAVVAWCYYSVSLRKAERLRAELDLKAGGFSIRNQKEQVFRLAFRSGAL  
DLDCSRDGALLGCSLTADGLPLHFFIQTVRPKDTVMCYRVRWEEAAPGRAVEHAMFLGD  
AAAHWYGAEMRTQHWP IRLDGQQEPQPFVTSDVYSSDAAFGGILERYWLSSRAAAIKVN  
DSVPFHLGWNSTERSLRQLARYHDTYPKPPAGRAAAPELSYRVCVGSVDVTSIHKYMVRRY  
FNKPSRVPAPAEFRDPIWSTWALYGRAVDQDKVLRFAQQIRLHHFNSSHLEIDDMYTPAY  
GDFDFDEVKFPNASDMFRRLRDAGFRVTLWVHPFVNYNSSRFEGEVERELFVREPTGRLP  
ALVRWWNGIGAVLDFTHPKARDWFQGLRRLRSRYSVASFKFDAAGEVSYLPRDFSTYRPL  
PDPSVWSRRYTEMALPFFSLAEVRVGYQSQNISCFRLVDRDSVWGYDLGLRSLIPAVLT  
VSMLGYPFILPDMVGGNAVPPQRTAGGDVPERELYIRWLEVAAMPAMQFSIPPWRYDAEV  
VAIAQKFAALRASLVAPLLELAGEVTDGDPVIRPLWWIAPGDETAHRIDSQFLIGDTL  
LVAPVLEPGKQERDVYLPAGKWSYKGELFDKTPVLLTDYPVDLDEIAYFTWAS

>sp|Q9P260|K1468\_HUMAN LisH domain and HEAT repeat-containing protein KIAA1468 OS=Homo sapiens GN=KIAA1468 PE=1 SV=2

MAAMAPGGSGSGGVNPFLLSDSEDDDEVAATEERRAVLRLLGAGSGLDPGSAGSLSPQDP  
VALGSSARPGLPGEASAAVAALGGTGETPARLSIDAIAAQLLRDQYLLTALELHTELLES  
GRELPRLRDYFSNPGNFERQSGTPPGMGAPGVPGAAGVGGAGGREPSTASGGGQLNRAGS  
ISTLDSLDFARYSDDGNRETDEKVAVLEFELRKAKETIQALRANLTKAAEHVPLQERKN  
YKSSPEIQEPIKPLEKRALNFLVNEFLLKNNYKLTSTFSDENDDQDFELWDDVGLNIPK  
PPDLLQLYRDFGNHQTGKDLVDVASGVEEDELEALTPIISNLPPTLETQPAENSMVLVQ  
KLEDKISLLNSEKWSLMEQIRRLKSEMDFLKNEHFAIPAVCDVQPPDLQPLHKDSEDSG  
QHPDVNSSDKGKNTDIHLSISDEADSTIPKENSFPRREREGMPSSLSKKTVHFDK  
PNRKLSPAFHQALLSFCRMSADSRLGYEVSRIADSEKSVMLMLGRCLPHIVPNVLLAKRE  
ELIPLILCTACLHPEPKERDQLLHILFNLIKRPDDEQRQMILTGCVAFARHVGPTVEAE  
LLPQCWEQINHKYPERRLLVAESCGALAPYLPKEIRSSLVLSMLQQMLMEDKADLVREAV  
IKSLGIIMGYIDDPKYHQGFELLSALGDPSESVSATHQVFLPAYAAWTTELGNLQSH  
LILTLLNKKIEKLLREGEHGLDEHKLHMYLSALQSLIPSLFALVLQNAPFSSKAKLHGEVP  
QIEVTRFPRMSPLQDVSTIIGSREQLAVLLQLYDYQLEQEGTTGWESLLWVVNQLLPQL  
IEIVGKINVTSTACVHEFSRFFWRLCRTFGKIFTNTKVKPQFQEILRLSEENIDSSAGNG  
VLTKATVPIYATGVLTCTYIQEEDRKLLVGFLVDVMTLLSLSHAPLDSLKASFVELGANPA  
YHELLTLVLWYGVVHTSALVRCTAARMFELTLRGMSEALVDKRVAPALVTLSSDPEFSVR  
IATIPAFGTIMETVIQRELLERVKMQLASFLEDPPQYQDQHSHTETIKTFGRVGPNAEPR  
FRDEFVIPHLHLKALVNNLQIVDSKRLDIATHLFEAYSALSCCFISEDLMVNHFLPGLRC  
LRTDMEHLSPEHEVILSSMIKECEQKVENKTVQEPQGSMSIAASLVSEDTKTKFLNKMGG  
LTTSGAMLANVFQRKK

>sp|Q7Z3Y9|K1C26\_HUMAN Keratin, type I cytoskeletal 26 OS=Homo sapiens GN=KRT26 PE=1 SV=2

MSFRLSGGSRRTSGRSLSGGGTGFVAGNVCVGSARSSFSCTLEGISSGGSFCNSG  
GGLGSGACAGFLGNEHSLSGNEKVTMQNLNDRLASYLHDVHALEENADLEQKIKGWYE  
KCEPGSSREHDDYSRYFSVIEDLKRQIISATICNASIVLQNDNARLTADDFRLKYENEL  
ALHHSVEADTSGLRRVLDELTLCTDLEIQCETLSEELTYLKKSHEEEMEVLQYTAGGNV  
NVEMNATPGVDLTVLLNNMRAEYEDLAEQNRKDAEAWFNERSATLQQQISDHEGAATAAR  
NELTELKRNLQTLEIELQSLMAVKHSYECSLAETEGNYCNQLQQIQDQIGVMEEQLQQIR  
TETEGQKLEYEQLLDVKIFLEKEIDIYCNLLDGEERKSKSTCYKSKGYRPVNSGNQAKDS  
TEETIVKTVEELDQIGNLLSLRVHSVEEKSSKISNITVEQRPVSKAP

>sp|Q5HYC2|K2026\_HUMAN Uncharacterized protein KIAA2026 OS=Homo sapiens GN=KIAA2026 PE=2 SV=2

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EAMVIGGGCCKEQELTYELQQGYRILGEFLQEKHRLTAPFLQLPGGVATAEEVAEGPR  
SGGRGGRAFPPQPGQGMCLLQMEEFASGQYGGITEFVADFRLMLETQYRLHGVHDHWSK  
QQGKLEMMLEQKLALLSRHLREKTTIAVTSRGYYGLEDEKGTACTSTRRRSTPRSLAGLT  
SGVFESIMVQVLRQEEQLRAKEEKRLREQERKEAEASQKEIEEWERKLLAQAAPTCMET  
MWEIPAIGHFLCLAQQILNLPEIVFYELERCLLMPQCNAFLSKIMTSLLSPPHRRPTLHR  
RPTLPYRTWEAALRQKVQWYTAVGQTENPDNCAEKLGLCPQFFKVLGEVNPLEEKPFHE  
LPFYQKVWLLKGLCDFVYETQKEVQDAVLGQPIHECREVILGYDYLENAYVHFPQFCGAD  
VRIYKQRPQAFEPFIPPIKIQRVPRIKLEKLKCDYVSTSNGEHRCRSDSLPSSFKEQE  
NNFDPACCPAKMILDNHDISVEMGVKSNEYIRIRRPCEIKKTDCKENLEKPRSPGEVTG



FGEPLSPGEIRFIENQEKYGEASRIKIEPSPLKENTLKSCQIHVNGSHSDHPEINCHKVV  
RDILLEQSLQSHKKLKLTKMRAKKKKKKKKLKDVLNENLQRKREGLHSLAFKSYKPEIQ  
NKLLI IKKKAKHKKHKS GKSKSVSKA ITKKRKTVIKSPTVPEFQLICTNLDELRELITKI  
ENELKDLENSRKSGKWYHRRQAVKELHSTLIRLLNELLWPWPKLMKAFQRNRSRLKKDY  
DDFRRQPDHDTFNRELWTTDEGEGLGKDSPKGEISKSIDSTEPLDILEKDHFDSDDMKL  
SEIDFPMARSKLLKKELPSKDLPKTLKTLKRQSKQTDYVDDSTKELSPRKKAKLSTNET  
TVENLESDVQIDCFSESKHTEPSFPESFASLDSVPVSTLQKGTKPIQALLAKNIGNKVTL  
TNQLPPSTGRNALAVEKPVLSPEASPIKPAL TCHTNTKGPLQMVYKMPCGQWLPIDLQN  
SSVKIQVQPMVDPKTGEKIMQVILPKNFVIQHKEGKAVAKEVPPLQKQTEQHCSFP  
QTTNINSSLASVFNSPGTVSTQLPNTAFNKITITPLSNISSARPQPLSPVTSVSNLLTPS  
VKTSQSEAGKAKNAVSAATFSLPSASPTISSTGQPLSSTTLNGSTNPGSSFNCFQAQTA  
DSSEAKQELKTV CIRDSQSILVRTRGGNTGVVKVQTNPDQNSPNTVSSSVFTFAPQLQA  
FLVPKSTTSSSAFSPVAGTTTTSSLSPFSQTPTSVSIPASFAPSMGKNLKLTLGHTTGSG  
DLGHVIDKTSHMPSSPLKSSICSTLLPSTTSSSVSIVISISANFGQNNANI IHTPTKQQ  
QVDYITKSYPTVTRSEATAATNGDVISGTPVQKLMLVSAPSLSSNGTAINMTPALTSTG  
VSAQKLVFINAPVPSGTSTPTLVAESLKQTLPPPLHKAYVKTPEQPQIVLIPSTVGTPIK  
INSSPAVSQIKDVKIGLNIGQAI VNTSGTVPAIP SINILQNVTPKGEDKSSKGYILPLST  
SGNSVPVSSNFVSQNI TPVNESVVSSARAVNLSVTGANLSLGSFPVTSASASAGAQP  
LVSGNDTSSRIMPILSNRLCSSLGNTVAISTVKTGHLASSVLISTTQPVVSPKCLTSAL  
QIPVTVALPTPATTPSKIINTVPHSAAVPGATRSVSISKRSRTSLQFHSPGISTTVPTN  
VNTNKPQTESSLSTSPGKITNTSNFASLPNQQALVKTPSYSSAPGGTTIHTASAPSNVT  
SLVGSQFSEPCIQQKIVINTSTPLAPGTQIMINGTRFIVPPQGLGAGSHVLLISTNPKYG  
APLVLSNGGQIQSTPIDNSAQKITLASNNSLSGQPLQHPLRSPTKFINSFGNASSIPTVH  
TSPQLINTTAKVPVPPPVPVTVSLTSVIKSPATLLAKTSLVSAICPSNPPLPSSTSVFHL  
PPVKKLLVSPEGAILNTINTPASKVSSLSPLSQIVVSASRSPASVFPFQSSGLEKPDR  
AAS

>sp|Q8IZA0|K319L\_HUMAN Dyslexia-associated protein KIAA0319-like protein OS=Homo sapiens  
GN=KIAA0319L PE=1 SV=2

MEKRLGVKPNPASWILSGYYWQTSAKWLRSLYLFYTCFCFSVLWLSTDASESRCQQGKTQ  
FGVGLRSGGENHLWLLEGTPSLQSCWAACQDSACHVFWWLEGMCIQADCSR PQSCRAFR  
THSSNSMLVFLKKFQTADDLGLFPEDDVPHLLGLGWNWASWRQSPRAALRPVSSSDQQ  
SLIRKLQKRGSPSDVPTPIVTQHSKVNDNELGGLTTSGSAEVHKAITISSPLTTDLTAE  
LSGGPKNVSVQPEISEGLATTPSTQQVKSSEKTQIAVPQPVAPSYSYATPTPQASFQSTS  
APYPVikelVVSAGESVQITLPKNEVQLNAYVLQEPPKGETYTYDWQLITHPRDYSGEME  
GKHSQILKLSKLTPLYEFKVI VEGQNAHGEgyVNVTVKPEPRKNRPPIAIVSPQFQETS  
LPTTSTVIDGSQSTDDDKIVQYHWEELKGPLREEKISED TAILKLSKLVPGNYTFSLTVV  
DSDGATNSTTANLTVNKAVDYPPVANAGPNQVITLPQNSITLFGNQSTDDHGITSYEWSL  
SPSSKGKVVEMQGVRTPTLQLSAMQEGDYTYQLTVTDTIGQQATAQVTVIVQPENNKPPQ  
ADAGPDKELTLPVDSTTLDGSKSSDDQKII SYLWEKTQGPdGVQLENANSSVATVTGLQV  
GTYVFTLTVKDERNLQSQSSVNVIVKEEINKPPIAKITGNVVITLPTSTAELDGSKSSDD  
KGIVSYLWTRDEGSPAAGEVLNHSDHHPILFLSNLVEGTYTFHLKVTDAKGESDTRTTV  
EVKPDPRKNNLVEIILDINVSQ LTERLKGMFIRQIGVLLGVLDSDIIVQKI QPYTEQSTK  
MVFFVQNEPPHQIFKGHEVAAMLKSELRKQKADFLIFRALEVNTVTCQLNCSDHGHCDSF  
TKRCICDPFWMENFIKVQLRDGDSNCEWSVLVYIIATFVIVVALGILSWTVICCCRQKQK

KPKRKSKYKILDATDQESLELKPTS RAGIKQKGLLLSSSLMHSESELDSDDAIFTWPDRE  
KGKLLHGQNGSVPNGQTPLKARSPREEIL

>sp|Q63ZY3|KANK2\_HUMAN KN motif and ankyrin repeat domain-containing protein 2 OS=Homo sapiens GN=KANK2 PE=1 SV=1

MAQVLHVPAPFPPTGPASPPAFPAKDPDPYPYGYRLDLDFLKYVDDIEKGHTLR  
RVAVQRRPRLSSLP RGP GSWWTSTESLCSNASGDSRHSAYSYCGRGFYPQYGALETRGGF  
NPRVERTLLDARRRLEDQAATPTGLGSLTPSAAGSTASLVGVGLPPPTPRSSGLSTPVPP  
SAGHLAHVREQMAGALRKLRLQLEEQVKLIPVLQVKLSVLQEEKRQLTVQLKSQKFLGHPT  
AGRGRSELCLDLDPDPEDPVALETRSVGTWVRERDLGMPDGEAALAAKVAVLETQLKKAL  
QELQAAQARQADPQPQAWPPDSPVRVDTV RVVEGPREVEVVASTAAGAPAQRAQSLEPY  
GTGLRALAMPGRPEPVPFRSQEVVETMCPVPAAATSNVHMKKISITERSCDGAAGLPE  
VPAESSSSPPGSEVASLTQPEKSTGRVPTQEPHREPTRQAASQESEEAGGTGGPPAGVR  
SIMKRKEEVADPTAHRRSLQFVG VNGGYESSSEDSSTAENISDNDSTENEAEPEPRERVPS  
VAEAPQLRPAGTAAAKTSRQECQLSRESQH IPTAEGASGSNTTEEIRME LSPDLISACLA  
LEKYLDNPALTERELKVAYTTVLQEWLRLACRSDAHP ELVRRHLVTFRAMSARLLDYVV  
NIADSNGNTALHYSVSHANFPV VQQLDSGVCKVDKQNRAGYSPIMLTALATLKTQDDIE  
TVLQLFRLGNINAKASQAGQTALMLAVSHGRVDVVKALLACEADVNVQDDDGSTALMCAC  
EHGHEIAGLLLAVPSCDISLTD RDGSTALMVALDAGQSEIASMLYSRMNIKCSFAPMSD  
DEPTSSSAEE

>sp|P49674|KC1E\_HUMAN Casein kinase I isoform epsilon OS=Homo sapiens GN=CSNK1E PE=1 SV=1

MELRVGNKYRLGRKIGSGSFGDIYLGANIASGEEVAIKLECVTKHPQLHIESKFYKMMQ  
GGVGIPS IKWCGAEGDYNVMVME LLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIH  
SKNFIHRDVKPDNFLMGLGKKGNLVYIIDFGLAKKYRDARTHQH IPYRENKNLTGTARYA  
SINTHLGIEQSRDDLES LGYVLMYFNLGSLPWQGLKAATKRQKYERISEKKMSTPIEVL  
CKGYPSEFSTYLFNFCRSLRFD DKPDYSYLRQLFRNFLFHRQGSYDYVFDWNMLKFGAARN  
PEDVDRE RREHEREERMQLRGSATRALPPGPPTGATANRLRSAAEPVASTPASRIQPAG  
NTSPRAISRVDREKRVSMRLHRGAPANVSSDLTGRQEVSRIPASQTSVPFDHLGK

>sp|Q9Y6M4|KC1G3\_HUMAN Casein kinase I isoform gamma-3 OS=Homo sapiens GN=CSNK1G3 PE=1 SV=2

MENKKKDKDKSDDRMARPSGRSGHNTRGTGSSSSGVL MVGPNFRVGGKIGCGNFGELRLG  
KNLYTNEYVAIKLEPMKSRAPQLHLEYRFYKQLGSGDGIPQVYFPGCKYNAMVLELLG  
PSLEDLFDLCDRTFSLKTVLMIAIQLISRMEYVH SKNLIYRDVKPENFLIGRPGNKTQQV  
IHIIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHLGKEQSRDDLEALGHMFM  
YFLRGS LPWQGLKADTLKERYQKIGDTKRATPIEVL CENFPEMATYLRVVRRLDFFEKPD  
YDYLRKLFTDLFDRKG YMF DYEYDWIGQLPTPVGAVQQDPALSSNREAHQHRDKMQQSK  
NQSADHRAAWDSQQANPHHLRAHLAADRHGGSVQVVSSTNGELNTDDPTAGRSNAPITAP  
TEVEVMDETKCCCFKRRKRKTIQRHK

>sp|Q14722|KCAB1\_HUMAN Voltage-gated potassium channel subunit beta-1 OS=Homo sapiens GN=KCNA1 PE=1 SV=1

MLAARTGAAGSQISEENTKLRRQSGFSVAGKDKSPKKASENAKDSSLSPSGESQLRARQL  
ALLREVEMNWYKLKCDLSSEHTTVCTTGMPHRNLGKSGLRV SCLGLGTWVTFGGQISDEV  
AERLMTIAYESGVNLFDTAEVYAAGKAEVILGSI I KKKGWRRSSLVITTKLYWGGAETE  
RGLSRKHIIEGLKGS LQRLQLEYVDVVFANRPDSNTPMEEIVRAMTHVINQGMAMYWGTS  
RWSAMEIMEAYSVARQFNMIPPVCEQA EYHLFQREKVEVQLPELYHKIGVGAMTWSPLAC

GIISGKYNGVPESSRASLKCYQWLKERIVSEEGRKQKNLKDLSPIAERLGCTLPQLAV  
AWCLRNEGVS SVLLGSSTPEQLIENLGAIQVLPKMTSHVVNEIDNLRNKPYSKKDYRS

>sp|Q7Z5Y7|KCD20\_HUMAN BTB/POZ domain-containing protein KCTD20 OS=Homo sapiens GN=KCTD20  
PE=1 SV=1

MNVHRGSDSDRLLRQEASCLVDDTLAVAQEKEANSLASSGPHNLTYPLGPRNEDLSLDYA  
SQPANLQFPHIMPLAEDIKGSQSGNKRNHEPFIAPERFGNSSVGFSGNSHQAPEKVT  
LLVDGTRFVVPNPQIFTAHPDTMLGRMFGPGREYNFTRPNEKG EY EIAEGISATVFRTVLD  
YYKTGIINCPDGISIPDLRDTCDYLCINFDNTIRCQDLSALLHELSDGAHKQFDHYLE  
ELILPIMVGC AKKGERECHIVLTD EDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIE  
NRDVAKTVLKERGLKNIRIGIEGYPTCKEIKRRPGGRSEVIYNYVQRPFIQMSWEKEEG  
KSRHVDQFCVRSKSLTNLVAAGDDVLEDQEILMHHPQVDELDRNLAPLSQMASNDFQD

>sp|Q9NZI2|KCIPI\_HUMAN Kv channel-interacting protein 1 OS=Homo sapiens GN=KCNIP1 PE=1  
SV=2

MGAVMGTFSSSLQTKQRRPSKDIAWWYYQYQRDKIEDELEMTMVCHRPEGLEQLEAQTNFT  
KRELQVLYRGFKNECPSGVVNEDTFKQIYAQFFPHGDASTYAHYLFNAFDTTQTGSVKFE  
DFVTALSILLRGTVEHEKLRTFNLYDINKDGYINKEEMDIVKAIYDMMGKYTYPVLKED  
TPRQHVDVFFQKMDKNKDGIVTLDEFLESCQEDDNIMRSLQLFQNVN

>sp|P78508|KCJ10\_HUMAN ATP-sensitive inward rectifier potassium channel 10 OS=Homo  
sapiens GN=KCNJ10 PE=1 SV=1

MTSVAKVYYSQTTQTESRPLMGPIRRRRVLT KDGRSNVRMEHIADKRFLYLKDLWTTFI  
DMQWRYKLLLF SATFAGTWFLFGVVYLVAVAHGDLELDPPANHTPCVVQVHTLTGAFL  
FSLESQTTIGYGFRIYSEECPLAIVLLIAQLVLTITLEIFITGTFLAKIARPKKRAETIR  
FSQHAVVASHNGKPLMIRVANMRKSLIGCQVTGKLLQTHQKEGENIRLNQVNVTFQV  
DTASDSPFLILPLTFYHVDETSPLKDLPLRSGEGDFELVLILSGTVESTSATCQVRTSY  
LPEEILWGYEFTPAISLSASGKYIADFSLFDQVVKVASPSGLRDSTVRYGDPEKKLEES  
LREQAEKEGSALSVRISNV

>sp|Q9UNX9|KCJ14\_HUMAN ATP-sensitive inward rectifier potassium channel 14 OS=Homo  
sapiens GN=KCNJ14 PE=1 SV=1

MGLARALRRLSGALDSGDSRAGDEEEAGPGLCRNGWAPAPVQSPVGRRRGRFVKDGHEN  
VRFVNLGGQGARYLSDLFTTCVDVRWRWMCLLFSCSFLASWLLFGLAFWLIASLHGDAA  
PPPPAPCFSHVASFLAAFLALETQTSIGYGVRSVTEECPAAVA AVLQCTIAGCVLDAFV  
VGAVMAKMAKPKRNETLVFSENAVVALRDHRLCLMWRVGNLRRSHLVEAHVRAQLLQPR  
VTPEGEYIPLDHQDQDVGFDDGTDRIFLVSPITIVHEIDSASPLYELGRAELARADFELV  
VILEGMVEATAMTTQCRSSYLPGELLWHRFEPVLFQSGSQYEVDRHFHRTYEVPPTPV  
CSAKELDERAEQASHSLKSSFPGLTAFCYENELALSCCQEEDEDETEEGNGVETEDGA  
ASPRVLTPTLALTLP

>sp|Q86W47|KCNMB4\_HUMAN Calcium-activated potassium channel subunit beta-4 OS=Homo sapiens  
GN=KCNMB4 PE=1 SV=2

MAKLRYAYEYTEADKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQ  
QIGEVFEFTTCGADCRGTSQYPCVQVYVNNSESNSRALLHSDEHQLLTNPCKSYIPPCK  
RENQKNLESVMNWQQYWKDEIGSQPFTCYFNQHQRPDDVLLHRTHDEIVLLHCFLWPLVT  
FVVGVLIVVLTICAKSLAVKAEAMKKRKFS

>sp|Q09470|KCNA1\_HUMAN Potassium voltage-gated channel subfamily A member 1 OS=Homo  
sapiens GN=KCNA1 PE=1 SV=2

MTVMSENVDEASAAPGHPQDGSYPRQADHDDHECCERVVINISGLRFETQLKTLAQFPN  
TLLGNPKKRMRYFDPLRNEYFFDRNRPSFDAILYQSGGRLRRPVNVPLDMFSEEIKFY  
ELGEEAMEKFREDEGFIKEERPLPEKEYQRQVWLLFEYPESSGPARVIAIVSVMVILIS  
IVIFCLETLPELKDDKFTGTVHRIDNTTVIYNSNIFTDPFFIVETLCIIWFSFELVVRV  
FACPSKTDFFKNIMNFIDIVAIIPYFITLGTETAEQEGNQKGEQATSLAILRVIRLVRF  
RIFKLSRHSKGLQILGQTLKASRELGLLIFFLFIGVILFSSAVYFAEAEAEASHFSSIP  
DAFWWAVVSMTTVGYGDMYPVTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETE  
GEEQAQLLHVSSPNLASDSDLRRSSSTMSKSEYMEIEEDMNNSIAHYRQVNIRTANCTT  
ANQNCVNKSKLLTDV

>sp|Q14003|KCNC3\_HUMAN Potassium voltage-gated channel subfamily C member 3 OS=Homo  
sapiens GN=KCNC3 PE=1 SV=3

MLSSVCVSSFRGRQGASKQQPAPPQPPEPPPPPLPPQQQPAQPGPAASPAGPPAPRG  
PGDRRAEPCGLPAAAMGRHGGGGGSGKIVINVGGVRHETYRSTLRTLPGTRLAGLTEP  
EAAARFDYDPGADEFFFDHRHPGVFAYVLNYYRTGKLHCPADVCGPLFEEELGFWGIDETD  
VEACCWMTYRQHRDAEEALDSFEAPDPAGAANAANAAGAHDGGLDDEAGAGGGGLDGAGG  
ELKRLCFQDAGGGAGGPPGGAGGAGGTWRRWQPRVWALFEDPYSSRAARYVAFASLFFI  
LISITTFCLETHEGFIHISNKTVTQASPIPGAPPENITNVEVETEPFLTYVEGVCVVWFT  
FEFLMRITFCPDKVEFLKSSLNIDCVAILPFYLEVGLSGLSSKAADVLGFLRVVRVFR  
ILRIFKLTRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERIGADPDDIL  
GSNHTYFKNIPIGFWWAVVTMTLGYGDMYPKTWSGMLVGALCALAGVLTIAAMPVPVIVN  
NFGMYSLAMAKQKLPKKKNKHIPRPPQPGSPNYCKPDPPPPPPPHPHHGSGGISPPPI  
TPPSMGVTVAGAYPAGPHTHPGLLRGGAGGLGIMGLPPLPAPGEPCLAQEEVIEINRAD  
PRPNGDPAALAHEDCPAIDQPAMSPEDKSPITPGSRGRYSRDACFLLDYAPSPDGS  
IRKATGAPPLPPQDWRKPGPPSFLPDNANAAAAWISP

>sp|Q03721|KCNC4\_HUMAN Potassium voltage-gated channel subfamily C member 4 OS=Homo  
sapiens GN=KCNC4 PE=1 SV=2

MISSVCVSSYGRKSGNKPPSKTCLKEEMAKGEASEKIIINVGGTRHETYRSTLRTLPGT  
RLAWLADPDGGRPETDGGGVGSSGSSGGGCEFFDHRHPGVFAYVLNYYRTGKLHCPAD  
VCGPLFEEELTFWGIDETDVEPCCWMTYRQHRDAEEALDIFESPDGGGSGAGPSDEAGDD  
ERELALQRLGPHEGGAGHGAGSGGCRGWQPRMWALFEDPYSSRAARVAFASLFFILVSI  
TTFCLETHEAFNIDRNVTEILRVGNITSVHFRREVETEPILTYIEGVCVLWFTLEFLVRI  
VCCPDTLDFVKNLLNIIDFVAILPFYLEVGLSGLSSKAARDVLGFLRVVRVFRILRIFKL  
TRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERIGARPSDPRGNDHTDF  
KNIPIGFWWAVVTMTLGYGDMYPKTWSGMLVGALCALAGVLTIAAMPVPVIVNNFGMYYS  
LAMAKQKLPKKRKKHVPRPAQLESMPYCKSEETSPRDSTCSDTSPPAREEGMIERKRADS  
KQNGDANAVLSDEEGAGLTQPLASSPTPEERRALRRSTTRDRNKAAACFLSTGDYACA  
DGSVRKGTFFVLRDLPLQHSPEAACPPTAGTLFLPH

>sp|P48544|KCNJ5\_HUMAN G protein-activated inward rectifier potassium channel 4 OS=Homo  
sapiens GN=KCNJ5 PE=1 SV=2

MAGDSRNAMNQDMEIGVTPWDPKKIPKQARDYVPIATDRTRLLAEGKKPRQRYMEKSGKC  
NVHHGNVQETYRYLSDLFTTLVDLKWRFNLLVFTMVYTVTWLFFGFIWWLIAYIRGDLDH  
VGQEWIPCVENLSGFVSAFLFSIETETTIGYGRVITEKCPEGIILLLVQAILGSIVNA  
FMVGCMFVKISQPKKRAETLMFSNNAVISMRDEKLCMLFRVGDLRNSHIVEASIRAKLIK  
SRQTKEGEFIPLNQTDINVGFDTGDDRLFLVSPLIISHEINQKSPFWEMSQAQLHQEEFE

VVVILEGMVEATGMTQCARSSYMDTEVLWGHRTFVLTLEKGFYEVDYNTFHDYETNTP  
SCCAKELAEMKREGRLQLYLPSPPLLGCAEAGLDAAEQNEEDEPKGLGGSREARGSV

>sp|Q15842|KCNJ8\_HUMAN ATP-sensitive inward rectifier potassium channel 8 OS=Homo sapiens  
GN=KCNJ8 PE=1 SV=1

MLARKSIIEEYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQGRFLQDI  
FTTLVDLKWRHTLVIFTMSFLCSWLLFAIMWWLVAFAGDIYAYMEKSGMEKSGLESTVC  
VTNVRSFSAFLFSIEVQVTIGFGGRMMTEECPLAITVLILQNIVGLIINAVMLGCIFMK  
TAQAHRAETLIFSRHAVIAVRNGKLCFMFRVGDRLKSMIISASVRIQVVKTTTPEGEV  
VPIHQLDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDISATDLANQDLEVIVILEGVV  
ETTGITQTARTSYIAEEIQWGHFVSIVTEEEGVYSVDYSKFGNTVKVAAPRCSARELDE  
KPSILIQTLQKSELSHQNSLRKNSMRRNNSMRRNNSIRRNNSSLMVPKVQFMTPEGNQN  
TSES

>sp|O95069|KCNK2\_HUMAN Potassium channel subfamily K member 2 OS=Homo sapiens GN=KCNK2  
PE=1 SV=2

MLPSASRERPGYRAGVAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWK  
TVSTIFLVVVLYLIIGATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQ  
IVAAINAGIIPLGNTSNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALL  
GIPLFGFLLAGVGDQLGTIFGKGIAKVEDTFIKWVNSQTKIRIISTIIIFILFGCVLFVAL  
PAIIFKHIEGWSALDAIYFVITLTTIGFGDYVAGGSDIEYLDYKPVVWFVILVGLAYF  
AAVLSMIGDWLRVISKKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATS  
IKRKLSAELAGNHNQELTPCRRTLSVNHLTSERDVLPPLKTESIYLNGLTPHCAGEEIA  
VIENIK

>sp|O95279|KCNK5\_HUMAN Potassium channel subfamily K member 5 OS=Homo sapiens GN=KCNK5  
PE=1 SV=1

MVDRGPLLTSAAIFYLAIGAAIFEVLEEPHWKEAKKNYYTQKLHLLKEFPCLGQEGLDKI  
LEVVSDAAGQGVAITGNQTFNNWNPNAMIFAATVITTIGYGNVAPKTPAGRLFCVFGYGL  
FGVPLCLTWISALGKFFGGRAKRLGQFLTKRGVSLRKAQITCTVIFIVWGVLVHLVIPP  
VFMVTEGWNYIEGLYYSFITISTIGFGDFVAGVNPSANYHALYRYFVELWYILGLAWLSL  
FVNWKVSMFVEVHKAIAKKRRRRRKESFESSPHSRKALQVKGSTASKDVNIFSFLSKKEET  
YNDLIKQIGKKAMKTSGGGETGPGPGLGPQGGGLPALPPSLVPLVVYSKNRVPTLEEV  
TLRSKGVHVRSPDEEAVARAPEDSSPAPEVFMNQLDRISEECEPWAQDYHPLIFQDASI  
TFVNTAAGLSDEETSKSSLEDNLAGEESPQQGAEAKAPLNMGEFPSSSESTFTSTESELS  
VPYEQLMNEYNKANSPKGT

>sp|O15554|KCNN4\_HUMAN Intermediate conductance calcium-activated potassium channel  
protein 4 OS=Homo sapiens GN=KCNN4 PE=1 SV=1

MGGDLVLGLGALRRRKRLLEQEKSLAGWALVLAGTGIGLMVLHAEMLWFGGCSWALYFL  
VKCTISISTFLLCLIVAFHAKEVQLFMTDNGLRDWRVALTGRQAAQIVLELVVCGLHPA  
PVRGPPCVQDLGAPLTSPQPWPGFLGQGEALLSLAMLLRLYLVPRAVLLRSGVLLNASYR  
SIGALNQVRFRHWFVAKLYMNTHPGRLLLGLTLGLWLTAVVLSVAERQAVNATGHLSDT  
LWLIPITFLTIGYGDVVPGTWVGKIVCLCTGVMGVCTALLVAVVARKLEFNKAEKHVHN  
FMMDIQYTKEMKESAAARVLQEAWMFYKHTRRKESHAARRHQRKLLAIAFRQVRLKHKR  
LREQVNSMVDISKMHMILYDLQQLSSSHRALEKQIDTLAGKLDALTELLSTALGPRQLP  
EPSQQSK

>sp|P56696|KCNQ4\_HUMAN Potassium voltage-gated channel subfamily KQT member 4 OS=Homo sapiens GN=KCNQ4 PE=1 SV=2

MAEAPPRLGLGPPPGDAPRAELVALTAVQSEQGEAGGGGSPRRLGLLGSPLPPGAPLPG  
PGSGSGSACGQRSSAAHKRYRRLQNWVYNVLERPRGWAFVYHVFIFLLVFSCLVLSVLST  
IQEHQELANECLLILEFVMIVVFGLEYIVRVWSAGCCCRYRGWQGRFRFARKPFCVIDFI  
VFVASVAVIAAGTQGNIFATSALRSMRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELIT  
AWYIGFLVLIFASFLVYLAEKDANSDFSSYADSLWWTITLTTIGYGDKTPHTWLGRVLA  
AGFALLGISFFALPAGILGSGFALKVQEQRQKHFEKRRMPAANLIQAAWRLYSTDMSRA  
YLTATWYYYDSILPSFRELALLFEHVQRARNGGLRPLEVRRAPVPDGAPSRYPVATCHR  
PGSTSFPCGESSRMGIKDRIRMGSSQRRTGPSKQHLAPPTMPTSPSSEQVGEATSPTKVQ  
KSWSFNDRTFRASRLRLKPRTS AEDAPSEEVAEEKSYQCELTVDIMPVKTIVIRSIRIL  
KFLVAKRKFKETLRPYDVKDIEQYSAGHLDMLGRIKSLQTRVDQIVGRGPGDRKAREKG  
DKGPSDAEVDDEISMGRVVKVEKQVQSIEHKLDLLLGFSRCLRSCTSASLGAVQVPLF  
DPDITS DYHSPVDHEDISVSAQTLISIRSVSTNMD

>sp|Q96KK3|KCNS1\_HUMAN Potassium voltage-gated channel subfamily S member 1 OS=Homo sapiens GN=KCNS1 PE=1 SV=2

MLMLLVRGTHYENLRSKVVLPTPLGGRSTETFVSEFPDPDTGIRWRRSDEALRVNVGGVR  
RQLSARALARFPGLRGLQAAASEEQARRLCDDYDEAAREFYFDRHPGFLLSLLHFYRT  
GHLHVLDEL CVFAFGQEADYWG LGENALAACCRARYLERRLTQPHAWDESDTPSSVDPC  
PDEISDVQRELARYGAARCGRRLRRLWLTMENPGYSLPSKLFSCVSISVVLASIAAMCIH  
SLPEYQAREAAAAVAAVAAGRSPEGVRDDPVLRRLEYFCIAWFSFEVSSRLLLAPSTRNF  
FCHPLNLIDIVSVLPFYLTLLAGVALGDQGGKEFGHLGKVVQVFRMLRIFRVLKLARHST  
GLRSLGATLKHSYREVGILLLYLAVGVSVFSGVAYTAEKEEDVGNTIPACWWWGTVSMT  
TVGYGDVVPVTVAGKLAASGCILGGILVVALPITIIFNKFSHFYRRQKALEAAVRNSNHQ  
EFEDLLSSIDGVSEASLETSRETSQEGQSADLESQAPSEPPHPQMY

>sp|Q5JUK3|KCNT1\_HUMAN Potassium channel subfamily T member 1 OS=Homo sapiens GN=KCNT1 PE=1 SV=2

MARAKLPRSPSEGKAGPGGAPAGAAAPEEPHGLSPLLARGGGSVGSDVGQRLPVEDFSL  
DSSLSQVQVEFYVNENTFKERLKLFFIKNRSSLRIRLNFSLKLLTCLLYIVRVLLDDP  
ALGIGCWGCPKQNYSFNDSSSEINWAPILWVERKMTLWAIQVIVAIISFLETMLLIYLSY  
KGNIWEQIFRVSVFLEMINTLPFIITIFWPPLRNLFIPVFLNCWLAKHALENMINDFHRA  
ILRTQSAMFNQVLILFCTLLCLVFTGTGCIQHLELAGENLSLLTSFYFCIVTFSTVGYGD  
VTPKIWPSQLLVIMICVALVVLPLQFEELVYLWMERQKSGGNYSRHRAQTEKHVVL CVS  
SLKIDLLMDFLNEFYAHPRLQDYVVVILCPTMDVQVRRVLQIPLWSQRVIYLLQGSALKD  
QDLMRKMDNGEACFILSSRNEVDRTAADHQTILRAWVKDFAPNCPLYVQILKPENKFH  
VKFADHVVC EEECKYAMLALNCICPATSTLITLLVHTSRGQEGQESPEQWQRM YGRCSGN  
EVYHIRMGDSKFFREYEGKSFTYAAFHAHKKYGVCLIGLKREDNKSILLNPGPRHILAAS  
DTCFYINITKEENSAFIFKQEEKRKKRAFSGQGLHEGPARLPVHSIIASMGTVAMD LQGT  
EHRPTQSGGGGGSKLALPTENGSGSRPSIAPVLELADSSALLPCDLLSDQSEDEVTPS  
DDEGLSVVEYVKGYPPNSPYIGSSPTLCHLLPVKAPFCCLRLDKGCKHNSYEDAKAYGFK  
NKLIIVSAETAGNGLYNFIVPLRAYYRSRKELNPVLLLDNKP DHHFLEAICCFPMVYYM  
EGSVDNLD SLLQCGI IYADNLVVVDKESTMSAEEDYMAKTI VNVQTMFRLFPSLSITT  
ELTHPSNMRFMQFRAKDSYSLASKLEKRERENGSNLAFMFRLPFAAGRVFSISMLDTLL  
YQSFVKDYMITITRLLLGLDTPGSGYLCAMKITEGDLWIRTYGRLFQKLCSSSAEIPIG

IYRTESHVFSTSESQISVNVEDCEDTREVKGPGWSRAGTGGSSQGRHTGGGDPAEHPLL  
RKSLQWARRLSRKAPKQAGRAAAAEWISQQRLSLYRRSERQELSELVKNRMKHLGLPTTG  
YEDVANLTASDVMNRVNLGYLQDEMNDHQNTLSYVLINPPPDTRLEPSDIVYLIRSDPLA  
HVASSSQSRKSSCSHKLSSCNPETRDETQL

>sp|Q8NHM5|KDM2B\_HUMAN Lysine-specific demethylase 2B OS=Homo sapiens GN=KDM2B PE=1 SV=1

MAGPQMGGSAEDHPPKRHAEEKQKKKTVIYTKCFEFESATQRPIDRQRYDENEDLSDVE  
EIVSVRGFSLEEKLSRSLYQGDVFHAMEGKDFNYEYVQREALRVPLIFREKDGLGIKMPD  
PDFTVRDVKLLVGSRRLLVDVMDVNTQKGTEMSMSQFVRYETPEAQRDKLYNVISLEFSH  
TKLEHLVKRPTVVDLVDVDMWVQHLKEKQTEATNAIAEMKYPKVKKYCLMSVKGCFD  
FHIDFGGTSVWYHVFRGGKIFWLIPPTLHNLALYEEWVLSGKQSDIFLGDRVERCQRIEL  
KQGYTFFIPSGWIHAVYTPVDSLFGGNILHSFNVPMQLRIYEIEDRTRVQPKFRYPFY  
EMCWYVLERYVYCVTQRSHLTQEYQRESMLIDAPRKPSIDGFSSDSWLEMEEEACDQQPQ  
EEEEKDEEGEGRDRAPKPPTDGGSTPTSTPSEDQEALGKKPKAPALRFLKRTLSNESEES  
VKSTTLAVDYPKTPTGSPATEVSAKWTHLTEFELKGLKALVEKLESLPENKKCVPEGIED  
PQALLEGVKNVLKEHADDDPSLAITGVPVVTWPKKTPKNRAVGRPKGKLGPAVAVKLAAN  
RTTAGARRRRTRCRKCEACLRTECGECHFCCKDMKKFGGPGRMKQSCIMRQCIAPVLPHTA  
VCLVCGEAGKEDTVEEEEGKFNMLMECSICNEIHPGCLKIKESEGVNDELPCWCEP  
KCNHAGKTGKQKRGPGFKYASNLPGSLLKEQKMNRDNKEGQEPAKRRSECEEAPRRRSDE  
HSKKVPPDGLLRKSDDVHLRKKRKYEKPELSGRKRASSLQTSFGSSSHLSRPPLGSS  
LSPWWRSSLTYFQQQLKPGKEDKLFRKKRRSWKNAEDRMALANKPLRRFKQEPEDELPEA  
PPKTRESHRSSSPTAGPSTEGAEGPEEKKVKMRRKRRLPNKELSRELSKELNHEIQR  
TENSLANENQQPIKSEPESEGEPEKRPPIGICERPHRFSGKLGNGTPRELRLHQLGPSLRSP  
RVISRPPPSVSPPKCIQMERHVRPPPISPPPDSLPLDDGAHVHREVWMAVFSYLSHQ  
DLCVCMRVCRWNWCCDKRLWTRIDLNHCKSITPLMLSGIIRRQPVSLDLSWTNISKKQ  
LSWLINRLPGLRDLVLSGCSWIAVSALCSSSCPLLRTLDVQWVEGLKDAQMRDLLSPPTD  
NRPGQMDNRSLRNIVELRLAGLDITDASRLRIIRHMPLLSKLHLSYCNHVTQDSINLLT  
AVGTTTRDSLTEINLSDCNKVTQCLSFCKRCGNICHIDRLRYCKQVTKEGCEQFIAEMSV  
SVQFGQVEEKLLQKLS

>sp|Q8N371|KDM8\_HUMAN Lysine-specific demethylase 8 OS=Homo sapiens GN=KDM8 PE=1 SV=1

MAGDTHCPAEPLAREGTLWEALRALLPHSKEDLKLDLGEKVERSVTLLQRATELFYEGR  
RDECLQSSEVILDYSWEKLNLTGTWQDVQDKDWRVYAIGCLLKALCLCQAPEDANTVAAAL  
RVCDMGLLMGAAIILGILLKVAAILQTHLPGRPARGSLEQPCTKKARADHGLIPDVKL  
EKTVPRLHRPSLQHFREQFLVGRPVILKGVADHWPCMQKWSLEYIQEIAGCRTVPVEVG  
SRYTDEEWSQTLMTVNEFISKYIVNEPRDVGYLAQHQLFDQIPELKQDISIPDYCSLGDG  
EEEEITINAWFGPQGTISPLHQDPQQNVLVQVMGRKYIRLYSPQESGALYPHDTHLLHNT  
SQVDVENPDLEKFPKFAKAPFLSCILSPGEILFIPVKYWHYVRALDLSFSVSFWWS

>sp|O75525|KHDR3\_HUMAN KH domain-containing, RNA-binding, signal transduction-associated protein 3 OS=Homo sapiens GN=KHDRBS3 PE=1 SV=1

MEEKYLPPELMAEKDSLDPSTHALRLVNQIEKFQKGEGKDEEKYIDVVINKNMKLGQKV  
LIPVKQFPKFNFGKLLGPRGNSLKRLQEETLTKMSILGKGSMDKAKEEELRKSGEAKY  
FHLNDDLHVLIEVFAPPAEAYARMGHALEEIKKFLIPDYNDIEIRQAQLQELTYLNGGSEN  
ADVPVVRGKPTLRTRGVPAPAITRGRGGVTARPVGVVPRGTPTPRGVLSTRGPVSRGRG  
LLTPRARGVPPTGYRPPPPPTQETYGEYDYGGTAYDEQSYDSYDYSYSTPAQSGAD  
YYDYGHLSEETYDSYGQEEWTNSRHKAPSARTAKGVYRDQPYGRY

>sp|O15037|KHNYN\_HUMAN Protein KHNYN OS=Homo sapiens GN=KHNYN PE=1 SV=3

MPTWGARPASPDRFAVSAEAKVREQQPHVERIFSVGVSVLPKDCPDNPHIWLQLEGPK  
ENASRAKEYLKLCSPELQDEIHYPKLHCIFLGAQGFFLDCLAWSTSAHLVPRAPGSLM  
ISGLTEAFVMAQSRVEELAERLSWDFTPGPSSGASQCTGVL RDFSALLQSPGDAHREALL  
QLPLAVQEELLSLVQEASSGQGPALASWEGRSSALLGAQCQGV RAPPSDGRESLDTGSM  
GPGDCRGARGDTYAVEKEGGKQGGPREMDWGWKELPGEEAWEREVALRPQSVGGGARESA  
PLKGKALGKEEIALGGGGFCVHREPPGAHGSCHRAAQSRGASLLQRLHNGNASPPRVSP  
PPAPEPPWHCGDRGDCGRGDVGDRGDKQGMARGRPQWKR GARGGNLVTGTQRFKEAL  
QDPFTLCLANVPGQPDLRHIVIDGNSVAMVHGLQH YFSSRGIAIAVQYFWDRGHRDITVF  
VPQWRFSKDAKVRESHFLQKLYSLSLSLTPSRVMDGKR ISSYDDRFMVKLAEETDGIIV  
SNDQFRDLAESEKWMAIIRERLLPFTFVGNLFMPDDPLGRNGPTLDEF LKKPARTQGS  
SKAQHPSRGFAEHGKQQQGREEKGGGIRKTRETERLRRQLLEVF WGGQDHKVDFILQRE  
PYCRDINQLSEALLSLNF

>sp|Q9ULI4|KI26A\_HUMAN Kinesin-like protein KIF26A OS=Homo sapiens GN=KIF26A PE=1 SV=3

MVGRGVPLCAAQPAVAEGGPAREPPPLLEVSPRKRLPAGPDQDPCGSRPAPEGAGAGPEQ  
GHSAGGGGWCRHCHTKLVELKRQAWKLVS GPGTTLRDPCLSALLLDKLPAPGALPACRPE  
AERRCDVCATHLQQLTREAMHLLQAPASHEDLDAPHGGPSLAPPSTTTSSRDTPGPAGPA  
GRQPGRAGPDRTKGLAWSPGVSQVSVAPAGLGGALSTVTIQAQQCLEGMWSVSRVNSFL  
PPACLAEAAVA AVADTVRECPVAGPDGLSKAWGRGGVCTSA LVTPGSGVGSTGPS  
AAASFFIRAMQKLSASKRKKHPPPPPATRG TSTYPTDFSGVLQLWPPPAPPCLLRAAS  
KTKDNPGSIGKVMLRIWPAQGAQRSAEAMSFLKVDPRKKQVILYDPAAGPPGSAGPRR  
AATAAVPKMAFAFDAVFPQDSEAEVCSGTADV LQSVVSGADGCIFSFGHMSLGKSYTMI  
GKDSSPQSLGIVPCAIISWLFRLIEERRERTG TRFSVRVSAVEVCGRDQSLRDLLAEVAPG  
SLQDTQSPGVYLREDPVCGAQLQNQSELRAPTAEKAAFYLDAA LAARSTSRAGCGEDARR  
SSHMLFTLHVYQYRMEKCGRGGMSGGRSRLHLIDLGSCEAAAGRAGEAAGGPLCLSLSAL  
GSVILALVNGAKHV PYRDHRLTMLRESLATAGCRTT MIAHVSDAPAQHAETLSTVQLAA  
RIHRLRRKKAKYASSSSGGESSCEEGRARRP PHLRPFHPRTVALDPDRTPPCLPGDPDYS  
SSSEQSCD TVIYVGPGAALSDRELTDNEGPPDFVPIIPALSRHRPSKGPRDADHFR CST  
FAELQERLECMDGNEGSPSGPGGTGDAQASPAR GGRKPSPEAASPRKAVGTPMAASTPR  
GSSGPDTHQGTPEPCKAIVWGDQREDSSAWPELLVPEKAAVSGGRRPLPSPAPPPPQ LLE  
ACRAPEEPGGGGTDGVARTPPVMSGQVAGSPMLPGATCPRLAAGSRCPERGLLTTTVTL  
QRPVELNGEDELFTVVEELSLGALAGRPTSLASFDSDCSLRALASGSRPVSIISSIN  
DEFDAYTSQAPEGGPLEGA AWAGSSHGSSISSWLSEVSVCTADSRDPTPQPRFSPDSL AG  
LDPGGPPALDGLSGDSSGFLGPD RPDSPGTGWGPCGEVA AVAPSRPGREPQAGPSRWA  
SAAQTIHSSLPRKPRTASATTRVGCARLGQSP PGRGGLFEDPWLLRVGECDTQAASAGRA  
PSPTLGSPRLPEAQVMLACAQRVVDGCEVAARAARRPEAVARI PPLRRGATTLGVTTPAV  
SWGDA PTEVVACSGSLKASPTSKKGLAPKAGFLPRPSGAAPPAPPTRKSSLEQRSSPASA  
PPHAVNPARVGAAAVLRGEEEP RPSSRADHSVPRATSSLKARASKVEAAHRLAGHASLER  
YEGLAHSSSKGREAPGRPPRAVPKLGVPSSPTHGPAPACRSGAAKAVGAPKPPVGGGKG  
RGLVAGGSRALGPSVKLSTASVTGRSPGGPVAGPRAAPRAGPSV GAKAGRGTVMGTKQAL  
RAAHSRVHEL SASGAPGRGGSSWGSADSDSGHDSGVNVGEERPPTGPALPSPYSKVTAPR  
RPQRYSSGHGSDNSSVLSGELPPAMGRTALFH HSGSSGYESLRDSEATGSASSAPDSM  
SESGAASPGARTSLKSPKKRATGLQRRRLIPAPLPD TTALGRKPSLPGQWVDLPPPLAG  
SLKEPFEIKVYEID DVERLQRPRPTPREAPTQGLACVSTR LRLAERRQQRLREVQAKHKH



LCEELAETQGRLMLEPGRWLEQFEVDPELEPESAEYLAALERATAALEQCVNLCKAHVMM  
VTCFDISVAASAAIPGPQEVDV

>sp|P43628|KI2L3\_HUMAN Killer cell immunoglobulin-like receptor 2DL3 OS=Homo sapiens  
GN=KIR2DL3 PE=1 SV=1

MSLMVSMVCVGFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFQHFL  
HREGKFKDTLHLIGEHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDI  
VITGLYEKPSLSAQPGPTVLAGESTLSCSSRSSYDMYHLSREGEAHERRFSAGPKVNGT  
FQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDLLSVTGNSNSWSPSTEPSSSETGN  
PRHLHVLIGTSVVIILFILLFLHRWCCNKKNNAVMDQEPAGNRTVNREDSDEQDPQE  
VTYAQLNHCVFTQRKITRPSQRPKTPPTDIIIVYTELPNAEP

>sp|Q14807|KIF22\_HUMAN Kinesin-like protein KIF22 OS=Homo sapiens GN=KIF22 PE=1 SV=5

MAAGGTQQRREMAAASAAAISGAGRCRLSKIGATRRPPPARVRVAVRLRPFVDGTAGA  
SDPPCVRGMDSCSLEIANWRNHQETLKYQFADFYGERSTQQDIYAGSVQPILRHLLEGQN  
ASVLAYGPTGAGKTHMLGSPEQPGVIPRALMDLLQLTREEGAEGRPWALSVTMSYLEIY  
QEKVLDLLDPASGDLVIREDCRGNLIPGLSQKPISSFADFERHFLPASRNRTVGATRLN  
QRSSRSHAVLLVKVDQRERLAPFRQREGKLYLIDLAGSEDNRRTGNKGLRLKESGAINTS  
LFVLGKVVDALNQLPRVPYRDSKLTRLLQDSLGGSAHSILIANIAPERRFYLDTVSALN  
FAARSKEVINRPFTNESLQPHALGPVKLSQKELLGPPEAKRARGPEEEEEIGSPEPMAAPA  
SASQKLSPLQKLSSMDPAMLERLLSLDRLLASQGSQGAPLLSTPKRERMVLMKTVEEKDL  
EIERLKTQKQKELEAKMLAQAAEEKENHCPTMLRPLSHRTVTGAKPLKAVVMPLQLIQEQ  
AASPNAEIHILKNKGRKRKLESLEDAPEEKAEDCWELQISPELLAHGRQKILDLLNEGS  
ARDLRSLQRIGPKKAQLIVGWRELHGPFSSQVEDLERVEGITGQMESFLKANILGLAAGQ  
RCGAS

>sp|Q86VH2|KIF27\_HUMAN Kinesin-like protein KIF27 OS=Homo sapiens GN=KIF27 PE=2 SV=1

MEEIPVKVAVRIRPLLCKEALHNHQCVRVIPNSQQVIGRDRVFTFDFVFGKNSTQDEV  
YNTCIKPLVLSLIEGYNATVFAYGQTGSGKTYTIGGGHIASVVEGQKGIIPRAIQEIFQS  
ISEHPSIDFNVKVSYIEVYKEDLRDLLELETSMKDLHIREDEKGNTVIVGAKECHVESAG  
EVMSLLEMGNAAHRTGTTQMNEHSSRSHAIFTISICQVHKNMEAEDGSWYSPRHIVSKF  
HFVDLAGSERVTKTGTNTGERFKESIQINSGLLALGNVISALGDPRRKSSHIPYRDAKTR  
LLKDSLGGSAKTVMITCVSPSSSNFDESLNSLKYANRARNIRNKPTVNFSPESDRIDEME  
FEIKLLREALQSQQAGVSQTTQINREGSPDNRHSLEEQAQLQGECLGYQCCVEEAFT  
FLVDLKDVTURLNEKQQHKLQEFWNMIQEVKAVLTSFRGIGGTASLEEGPQHVTVLQLKR  
ELKKQCQVLADEVVFNQKELEVKELKNQVQMMVQENKGHAVSLKEAQKVNRLQNEKIE  
QQLLVDQLSEELTKLNLVTSSAKENCGDGPDAIPERRPYTPFDTHLGHYIYIPSRQD  
SRKVHTSPPMYSLDRIFAGFRTRSQMLLGHIEEQDKVLHCQFSDNSDDEESEGQEKSGTR  
CRSRSWIQKPDVCSLVELSDTQDETQKSDLENEDLKIDCLQESQELNLQKLKNSERILT  
EAKQKMRELITINIKMEDLIKELIKTGNDAKSVSKQYSLKVTKLEHDAEQAKVELIETQK  
QLQELNKLSDVAMKVKLQKEFRKKMDAAKLVRVQLQKKQQDSKKLASLSIQNEKRANE  
LEQSVDHMKYQKIQLQRKLRENEKRRQLDAVIKRDQQKIKEIQLKTGQEEGLKPKAEDL  
DACNLKRRKGSFGSIDHLQKLDEQKKWLDEEVEKVLNQRQEELEADLKKREAIIVSKKE  
ALLQEKSHLENKKLRSSQALNTDSLKISTRNLLEQELSEKNVQLQTSTAEKTKISEQV  
EVLQKEKDQLQKRRHNVDKLNKGRVLSPEEEHVLFLQLEEGIEALEAAIEYRNESIQRNQ  
KSLRASFHNLRSGEANVLEKLACLSPEVIRTILFRYFNKVNLREAERKQQLYNEEMKMK  
VLERDNMVRELESALDHLKLQCDRRLTLQKKEHEQKMQLLLHHFKEQDGEGIMETFKTYE

DKIQQLEKDLYFYKKTSRDHKKKLKELVGEAIRRQLAPSEYQEAGDGLKPEGGMLSEE  
LKWASRPESMKLSGREREMDSSASSLRTQPNPQKLWEDIPELPIHSSLAPPSGHMLGNE  
NKTETDDNQFTKSHSRLSSQIQVVGNGVRLHGVTPVKLCRKELRQISALELSLRRSSLGV  
GIGSMAADSIEVSRKPRDLKT

>sp|O00139|KIF2A\_HUMAN Kinesin-like protein KIF2A OS=Homo sapiens GN=KIF2A PE=1 SV=3

MATANFGKIQIGIYVEIKRSDGRIHQAMVTSLNEDNESVTVEWIENGDTKGKEIDLESIF  
SLNPDLPDDEEIEPSPETPPPPASSAKVNVKIVKNRRTVASIKNDPPSRDNRVVG SARARP  
SQFPEQSSSAQQNGSVSDISPVQAAKKEFGPPSRKSNVCVEKLEKREKRRLQQQEL  
REKRAQDV DATNP NYEIMCMIRDFRGLDYRPLTTADPIDEHRICVCVRKRPLNKKETQM  
KDLDVITIPSKDVVMHEPKQKVDLTRYLENQTFRFDYAFDD SAPNEMVYRFTARPLVET  
IFERGMATCFAYGQTGSGKTHTMGGDFSGKNQDCSKGIYALAARDVFLMLKKPNYKKLEL  
QVYATFFEIYSGKVFDLLNRKTKLRVLEDGKQQVQVVG LQEREVKCEDVLKLIDIGNSC  
RTSGQTSANAHSSRS HAVFQIILRRKGKLGKFS LIDLAGNERGADTSSADRQTRLEGAE  
INKSLLALKECIRALGRNKPHTPFRASKLTQVLRDSFIGENSRTCMIATISPGMASCENT  
LNTLRYANRVKELTVDP TAAGDVRPIMHHPNQIDDLETQWVGSSPQRDDLKLLCEQNE  
EEVSPQLFTFHEAVSQMVEMEEQVVEDHRAVFQESIRWLEDEKALLEMTEEVDYDVDSYA  
TQLEAILEQKIDILTEL RDKVKS FRAALQEEEQASKQINPKRPRAL

>sp|Q6ZMV9|KIF6\_HUMAN Kinesin-like protein KIF6 OS=Homo sapiens GN=KIF6 PE=1 SV=3

MVKQTIQIFARVKPPVRKHQQGIYSIDEDKLIPSLEIILPRDLADGFVNNKRESYKFKF  
QRIFDQDANQETVFENIAKPVAGSVLAGYNGTIFAYGQTGSGKTFTITGAERYSDRGII  
PRTLSYIFEQLQKDDSKIYTTTHISYLEIYNECGYDLLDP RHEASSLEDLPKVTILEDPDQ  
NIHLKNLTLHQATTEEEALNLLFLGDTNRMIAETPMNQASTRSHCIFTIHLSSKEPGSAT  
VRHAKLHLVDLAGSERVAKTGVGGHLLTEAKYINLSLHYLEQV IIALSEKHRSHIPYRNS  
MMTSVLRDSLGGNCMTMIATLSLEKRNLD ESISTCRFAQRVALIKNEAVLN EEINPRLV  
IKRLQKEIQELKDELAMVTGEQRTEALTEAELLQLEKLITSFLEDQSDSRLEV GADM RK  
VHHCFHHLKKLLNDKKILENNTVSSESKDQDCQEPLKEEYRKL RDILKQRDNEINILVN  
MLKKEKKKAQEALHLAGMDRREFRQSQSPPFRLGNPEEGQRMRLSSAPSQAQDFSILGKR  
SSLLHKKIGMREEMSLGCQEA FEIFKRDHADSVTIDDNKQILKQRFSEAKALGESINEAR  
SKIGHLKEEITQRHIQQVALGISENMAVPLMPDQ QEEKLRSQLEEEKRRYKTMFTRLKAL  
KVEIEHLQLLMDKAKVKLQKEFEVWWAE EATNLQVN SPAVNSLDHTKPFLQTSDSQHEWS  
QLLSNKSSGGWEVQDQGTGRFDVCDVNARKILPSPCSPHSQKQSSTSTPLEDSIPKRPV  
SSIPLTGDSQTDSDIIAFIKARQSILQKQCLGSN

>sp|Q92845|KIFA3\_HUMAN Kinesin-associated protein 3 OS=Homo sapiens GN=KIFAP3 PE=1 SV=2

MQGEDARYLKRKVKGGNIDVHPSEKALIVHYEVEATILGEMGDPMLGERKECQKIIRLKS  
LNANTDITSLARKVVEECKLIHPSKLNEVEQLLYLQNRRLSLSGKEKKEKSSKPKDPPP  
FEGMEIDEVANINDMDEYIELLYEDIPDKVRGSALILQLARNPDNLEELLLNETALGALA  
RVLREDWKQSVELATNIIYIFCFSSFSQFHGLITHYKIGALCMNIIDHELKRHELWQEE  
LSKKKKAVDEDPENQTLRKDYKTFKKYQGLVVKQEQLLRVALYLLNL AEDTRTELKMR  
NKNIVHMLVKALDRDNFELLILVVSFLKKLSIFMENKNDMVEMDIVEKLVKMIPCEHEDL  
LNITLRLLLNLSFDTGLRNKMVQVGLLPKLTALLGNDNYKQIAMCVLYHISMDDRFSKSMF  
AYTDCIPQLMKMLFECSDERIDLELISFCINLAANKRNVQLICEGNGLKMLMKRALKFKD  
PLLMK MIRNISQHDGPTKNLFIDYVGDLAAQISNDEEEEFVIECLGTLANLTIPDLDWEL  
VLKEYKLV PYPYLDK LKPGA AEDDLVLEVVIMIGTVSMDDSCAALLAKSGIIPALIELLNA  
QQEDDEFVCQIIYVFYQMVFHQATRDVIKETQAPAYLIDLMHDKNNEIRKVC DNTLDII

AEYDEEWAKKIQSEKFRWHNSQWLEMVESRQMDSESEQYLYGDDRIEPIIHEGDILERPDL  
FYNSDGLIASEGAISPDDFNDYHLQNGDVVGQHSFPGSLGMDGFGQPVGILGRPATAYGF  
RPDEPYYYGYGS

>sp|Q9BVG8|KIFC3\_HUMAN Kinesin-like protein KIFC3 OS=Homo sapiens GN=KIFC3 PE=1 SV=4

MVPSRRTWNLGATPSLRGLWRVGRAPEPEPGMARPAAPASPAARFPHTGPGRLRTGRG  
KDTPVCGDEDSSARSAARPALAQCRALSVDWAGPGSPHGLYLTQVEHLKEKLISQAQEV  
SRLRSELGGTDLEKHRDLLMVENERLRQEMRRCEAELQELRTKPAGPCPGCEHSQESAQL  
RDKLSQLQLEMAESKGMLSELNLEVQKKTDRLAEVELRLKDCLAEKAQEEERLSRRLRDS  
HETIASLRAQSPPVKYVIKTVEVESSKTKQALSESQARNQHLQEQVAMQRQVLKEMEQQ  
QSSHQLTARLRAQIAMYESELERAHGQMLEEMQSLEEDKNRAIEEAFARAQVEMKAVHEN  
LAGVRTNLLTLQPALRTLNDYNGLKRRQVRGFPLLLQEALRSVKAIEGQAIEEVNSNNQE  
LLRKYRRELQLRKKCHNELVRLKGNIRVIARVRPVTKEGEGPEATNAVTFDADDDSIH  
LLHKGKPVSFELDKVFSPPQASQQDVFEVQALVTSCIDGFNVCIFAYGQTGAGKTYTMEG  
TAENPGINQALQLLFSEVQEKAADWEYTTITVSAAEIYNEVLRDLLGKEPQEKLEIRLCP  
DGSQGLVYPGLTEFQVQSVDDINKVFEFGHTNRTTEFTNLNEHSSRSHALLIVTVRGVDC  
STGLRTTGKLNLDLAGSERVGKSGAEGSRLREAQHINKSLSALGDVIAALRSRQGHVPF  
RNSKLTYYLLQDSLSGDSKTLMVVQVSPVEKNTSETLYSLKFAERVRSVELGPGLRRAELG  
SWSSQEHLEWEPACQTPQSARAHSA PSSGTSSRPGSIRRKLQPSGKSRPLPV

>sp|O60870|KIN17\_HUMAN DNA/RNA-binding protein KIN17 OS=Homo sapiens GN=KIN PE=1 SV=2

MGKSDFLTPKAIANRIKSKGLQKLRWYQMCQKQCRDENGFKCHCMSESHQRQLLASSEN  
PQQFMDYFSEEFNRNDFLELLRRRFGTKRVHNNIVYNEYISHREHIHMNATQWETLTDFTK  
WLGREGLCCKVDETPKGWYIYIDRDPETIRRQLELEKKKKQDLDEEKTAKFIEEQVRRG  
LEGKEQEVPTFTELSRENDEEKVTFNLKSGACSSSGATSSKSSTLGPSALKTIGSSASVK  
RKESQSSSTQSKEKKKKKSALDEIMEIEEEKKRTARTDYWLQPEIIVKIIITKKLGEKYHK  
KKAIVKEVIDKYTAVVKMIDSGDKLKLDQTHLETVIPAPGKRILVLNGGYRGNEGTLSEI  
NEKTF SATIV IETG PLKGRRVEGIQYEDISKLA

>sp|Q9NRX6|KISHB\_HUMAN Protein kish-B OS=Homo sapiens GN=TMEM167B PE=3 SV=1

MTNVYSLDGILVFGLLFVCTCAYFKKVPRLKTWLLSEKKGVWGVFYKAAVIGTRLHAAVA  
IACVVMAFYVLFIK

>sp|Q15726|KISS1\_HUMAN Metastasis-suppressor KiSS-1 OS=Homo sapiens GN=KISS1 PE=1 SV=4

MNSLVSWQLLLFLCATHFGEPLEKVASVGNRSPTGQQLESGLLAPGEQSLPCTERKPAA  
TARLSRRGTSLSPPPESSGSPQQPGLSAPHSRQIPAPQGAVLVQREKDLPNYNWNSFGLR  
FGKREAAPGNHGRSAGRG

>sp|P04183|KITH\_HUMAN Thymidine kinase, cytosolic OS=Homo sapiens GN=TK1 PE=1 SV=2

MSCINLPTVLPGPSKTRGQIQVILGPMFSGKSTELMRRVRRFQIAQYKCLVIKYAKDTR  
YSSSFCTHDRNTMEALPACLLRDVAQEALGVAVIGIDEGQFFPDIVEFCEAMANAGKTVI  
VAALDGTFRKPFGAAILNLVPLAESVVKLTAVCMECFREAAAYTKRLGTEKEVEVIGGADK  
YHSVCRLCYFKKASGQPAGPDNKENCVPVPGKPGEAVAARKLFAPQQILQCSPAN

>sp|Q6P597|KLC3\_HUMAN Kinesin light chain 3 OS=Homo sapiens GN=KLC3 PE=1 SV=2

MSVQVAAPGSAGLGPRLSPEELVRQTRQVVQGLEALRAEHHGLAGHLAEALAGQGPAA  
G  
LEMLEEKQQVVSHSLEAIELGLGEAQVLLALSAHVGALEAEKQRLRSQARRLAQENVWLR  
EELEETQRRRLASEESVAQLEEEKRHLEFLGQLRQYDPPAESQQSESPPRRDSLASLFPS  
EEEERKGPEAAGAAAAQGGGYEIPARLRTLHNLVIQYAGQGRYEVAVPLCRQALEDLERS  
SGHCHPDVATMLNILALVYRDQNKYKEATDLLHDALQIREQTLGPEHPAVAATLNNLAVL

YGKRGRYREAELPCQRALEIREKVLGADHPDVAKQLNNLALLCQNGKFEDVERHYARAL  
SIYEALGGPHDPNVAKTKNNLASAYLKQNKYQQAEELYKEILHKEDLPAPLGAPNTGTAG  
DAEQALRRSSSLKIRESSIRRGSEKLVSRLRGEAAAGAAGMKRAMSLNTLNVDAPRAPGT  
QFPSWHLDKAPRTLSASTQDLSPH

>sp|Q5VTJ3|KLD7A\_HUMAN Kelch domain-containing protein 7A OS=Homo sapiens GN=KLHDC7A PE=1  
SV=5

MFPRGAEAQDWHLDMQLTGKVVLSAAALLLVTVAYRLYKSRPAPAQRWGGNGQAEAKEEA  
EGSGQPAVQEASPGVLLRGPRRRRSSKRAEAPQGCSCENPRGPYVLVTGATSTDTRKPQRK  
GSGEERGGQGSDEQVPPCCPSQETRTAVGSNPDPHPRLGSEPKSSPAGLIAAADGSC  
AGGEPSPWQDSKPREHPGLGQLEPPHCHYVAPLQGSSDMNQSWMFTRVIGVSREEAGALE  
AASDVLTLHQEGEAPNSSYTFSSIARVRMEEHFIQKAEGVEPRLKGKVYDYYVESTSQA  
IFQRLAPRTAALTEVPSRPPLPGSLGTGAASGGQAGDTKGAERAASPQTGPWPSTRGF  
SRKESLLQIAENPELQLQPDGFRPLAPPCPDGALPGLGRSSREPHVQPVAGTNFFHIPL  
TPASAPQVRLDLGNCYEVLTLAKRQNLALKEAAYKVMSENYLQVLRSPDIYGCLSGAER  
ELILQRRRLRGRQYLVAADVCPKEDSGGLCCYDDEQDVWRPLARMPPEAVSRGCAICSLFN  
YLFVSGCQGPQHQPSSRVFCYNPLTGIWSEVCPLNQARPHCRLVALDGHLAIGGECLN  
SVERYDPRLDRWDFAPPLPSDTFALAHTATVRAKEIFVTGGSLRFLFRFSAQEQRWWAG  
PTGGSKDRTAEMVAVNGFLYRFDLNRSLGIAVYRCSASTRLWYECATYRTPYDAFQCAV  
VDNLIYCVGRRSTLCFLADSVSPRFVPKELRSFPAPQGTLLPTVLTLPDLPQTRV

>sp|Q8IXV7|KLD8B\_HUMAN Kelch domain-containing protein 8B OS=Homo sapiens GN=KLHDC8B PE=2  
SV=1

MSAGGGRAFAWQVFPPMPTCRVYGTVAHQDGHLLVLGGCGRAGLPLDTAETLDMASHTWL  
ALAPLPTARAGAAAVVLGKQVLVVGVDDEVQSPVAAVEAFMDDEGRWERRATLPQAAMGV  
ATVERDGMVYALGGMGPDTPAQAVRVYEPRRDCWLSLPSMPTPCYGASTFLHGNKIYVL  
GGRQGKLPVTAFAEFDLEARTWTRHPSLPSRRAFAGCAMAEGSVFSLGGLQQPGPHNFYS  
RPHFVNTVEMFDLEHGSWTKLPRSLRMRDKRADFVVGSLGGHIVAIGGLGNQCPLGSVE  
SFSLARRRWEALPAMPTARCSQSLQAGPRLFVIGGVAQGPSQAVEALCLRDGV

>sp|Q8NEP7|KLDC9\_HUMAN Kelch domain-containing protein 9 OS=Homo sapiens GN=KLHDC9 PE=1  
SV=2

MAVAVPPGRAAGSGWAWRPVARDALLARAFHSCTELRGRFYLVGGLLAGGAREPSSDTVV  
FDPARGQAVRLGARGSPPRSHDAAPVDGRWLCVVGWDGSRRLATVTALDTERGVWEAW  
TGTPGDCPPAGLSSHTCTRISDRELQVAGREGGIHTQRRYGSITYTLRLDPSARTYCYKQE  
GCHTASRSGHCAALLQTPGPHPGHQLLLFGGCNLAEPVAGHWSHGKIKEEPPVAPHLME  
QLARLVSSGQGSQKGPGLRHHSQSVVGPFAVLFGGETLTRARDTICNDLYIYDTRTSPP  
LWFHFPCADRGMKRMGHRTCLWNDQLYLVGFGGEDGRTASPQVCILDFI

>sp|O14901|KLF11\_HUMAN Krueppel-like factor 11 OS=Homo sapiens GN=KLF11 PE=1 SV=2

MHTPDFAGPDARAVDIMDICESILERKRDSESTCSILEQTDMEAVEALVCMSSWGQR  
SQKGDLLRIRPLTPVSDSGDVTTVHMDAATPELPKDFHSLSTLCITPPQSPDLVEPSTR  
TPVSPQVTDKACTATDVLQSSAVVARALSGGAERGLLGLVPVSSPCRAKGTSVIRHTG  
ESPAACFTIQTDPCLSDSREGEEQLLGHFETLQDTHLTDSSLSTNLVSCQPCLHKSGG  
LLLTDKGQQAGWPGAVQTCSPKNYENDLPRKTTPLISVSPAPPVLCQMIPVTGQSSMLP  
AFLKPPPQLSVGTVRPILAAAPAPQPVFVGPAVPQGAVMLVLPQGALPPPAPCAANVMA  
AGNTKLLPLAPAPVITSSQNCVPQVDFSRRRNYVCSFPGCRKTYFKSSHLKAHLRHTTG  
EKPFNCSWDGCDKKFARSDELNRHRTHTGEKKFVCPVCDRRFMRSDHCLKHARRHMTTK

KIPGWQAEVGKLNRIASAESPGSPLVSPASA

>sp|Q9BXK1|KLF16\_HUMAN Krueppel-like factor 16 OS=Homo sapiens GN=KLF16 PE=1 SV=1

MSAAVACVDYFAADVLMAISSGAVVHRGRPGPEGAGPAAGLDVRAARREAAASPGTPGPPP  
PPPAASGPGPGAAAAPHLLAASILADLRGGPGAAPGGASPSSSSAASSPSSGRAPGAAP  
SAAAKSHRCPPDCAKAYYKSSHLKSHLRHTHTGERPFACDWQGCDDKFARSDELARHHRT  
HTGEKRFSCPLCSKRFTRSDHLAKHARRHPGFHPDLLRRPGARSTSPSDSLPCSLAGSPA  
PSPAPSPAPAGL

>sp|Q6JEL2|KLH10\_HUMAN Kelch-like protein 10 OS=Homo sapiens GN=KLHL10 PE=1 SV=1

MEMESAAASTRFHQPHMERKMSAMACEIFNELRLEGKLCDDVIKNGFEFSAHKNILCSC  
SSYFRALFTSGWNNTEKKVYNIPGISPDMMKLIIYAYTRTPITPDNVEKLLAAADQFN  
IMGIVRGCCFEFLKSELCLDNCIGICKFTDYYCPELRQKAYMFILHNFEEMVKVSAEFLE  
LSVTELKDIIEKDELNVKQEDAVFEAILKWISHDPQNRKQHISILLPKVRLALMHAEIFM  
NNVKMNDYVKDSEECKPVIINALKAMYDLNMNGPSNSDFTNPLTRPRLPYAILFAIGGWS  
GGSPNTAIEAYDARADRWVNTCEEESPRAYHGAAYLKGYVYIIGGFDSVDYFNSVKRFD  
PVKKTWHQVAPMHSRRCYVSVTVLGNFIYAMGGFDGYVRLNTAERYEPETNQWTLIAPMH  
EQRSDASATTLYGKVIICGGFNGNECLFTAENVNTESNQWTVIAPMRSRRSGIGVIAYGE  
HVVAVGGFDGANRLRSAEAYSPTANTWRTIPTMFNPRSNFGIEVDDLLFVVGFGNGFTT  
TFNVECYDEKTDWEYDAHDMSIYRSALSCCVVPLANVEEYAARRDNFPGLALRDEVKYS  
ASTSTLPV

>sp|Q12918|KLRB1\_HUMAN Killer cell lectin-like receptor subfamily B member 1 OS=Homo sapiens GN=KLRB1 PE=1 SV=1

MDQQAIYAELNLPTDSGPESSSPSSLPRDVCQGSPWHQFALKLSCAGIILLVLVVTGLSV  
SVTSLIQKSSIEKCSVDIQQSRNKTTTERPGLNCPIYWQQLREKCLLFSTVNPWNNSLA  
DCSTKESSLLLIRDKDELIHTQNLIRDKAILFWIGLNFSLSEKNWKWINGSFLNSNDLEI  
RGDAKENSISISQTSVYSEYCESTEIRWICQKELTPVRNKVYPDS

>sp|Q5SVS4|KMCP1\_HUMAN Kidney mitochondrial carrier protein 1 OS=Homo sapiens GN=SLC25A30 PE=1 SV=1

MSALNWKPFVYGGLASITAECGTFPIDLTKTRLQIQGQTNDKFKKEIRYRGMLHALVRIG  
REEGLKALYSGIAPAMLQASYGTIKIGTYQSLKRLFIERPEDETLPINVICGILSGVIS  
STIANPTDVLKIRMQAQSNITQGGMIGNFMNIYQQEGTRGLWKGVSLETAQRAAIVVGVEL  
PVYDITKKHLILSGLMGDTVYTHFLSSFTCGLAGALASNPVDVVRTRMMNQRVLRDGRCS  
GYTGTLDCLLQTWKNEGFFALYKGFWPWNWLRGPNWNIIFVITYEQLKKLDL

>sp|Q4FZB7|KMT5B\_HUMAN Histone-lysine N-methyltransferase KMT5B OS=Homo sapiens GN=KMT5B PE=1 SV=4

MKWLGESKIMVVNGRRNGGKLSNDHQQNQSKLQHTGKDTLKAGKNAVERRSNRCNGNSGF  
EGQSRYPSSGMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPSRSSRHFSKSDSFS  
HNNPVRFRPIKGRQEELKEVIERFKKDEHLEKAFKCLTSGEWARHYFLNKNMQEKLKFE  
HVFIIYLRMFATDSGFEILPCNRYSSSEQNAKIVATKEWKRNDKIELLVGCIAELSEIEEN  
MLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNCKFVSTGRDTACVKALRDIEPG  
EEISCYYGDGFFGENNEFCYTCERRGTGAFKSRVGLPAPAPVINSKYGLRETDKRLNR  
LKKLGDSSKNSDSQSVSSNTDADTTQEKNNATSNRKSSVGKKNKSRTLTRQSMSRIPA  
SSNSTSSKLTHINNSRVPKLKKPAKPLLSKIKLRNHCKRLEQKNASRKLEMGNLVLKEP  
KVVLYKNLPKKDKPEGPAQAAVASGCLTRHAAREHRQNPVRGAHSQGESSPCTYITRR  
SVRTRTNLKEASDIKLEPNTLNGYKSSVTEPCPDSGEQLQPAPVLQEEELAHETAQKGEA

KCHKSDTGMSKKSRQGKLVKQFAKIEESTPVHDSPGKDDAVPDLMGPHSDQGEHSGTVG  
VPVSYTDCAPSPVGCSSVVTSDSFKTKDSFRATAKSKKKRRITRYDAQLILENNSGIPKLT  
RRRHSSSKTNDQENDGMNSSKISIKLSKDHDNDNLYVAKLNNGFNNSGSGSSSTKLKI  
LKRDEENRGSYTEGLHENGCCSDPLSLLESMEVDDYSQYEEESTDDSSSSEGDEEEDD  
YDDDFEDDFIPLPPAKRLRLIVGKDSIDIDISSRRREDQSLRLNA

>sp|Q86Y97|KMT5C\_HUMAN Histone-lysine N-methyltransferase KMT5C OS=Homo sapiens GN=KMT5C  
PE=1 SV=1

MGPDRVARELCENDDLATSLVDPYLGFRTHKMNVSPPPLRRQQHLRSALETFLRQRD  
LEAAYRALTLGGWTARYFQSRGPRQEAALKTHVYRYLRAFLPESGFTILPCTRYSMETNG  
AKIVSTRAWKKNEKLELLVGCIAELREADEGLLRAGENDFSIMYSTRKRSACLWLGPAAF  
INHDCPNCKFVPADGNAACVKVLRDIEPGDEVTCFYGEGFFGEKNEHCEHTCERKGE  
AFRTRPREPALPPRPLDKYQLRETKRRLQQGLDSGRQGLGPRACVHPSPLRRDPFCAA  
CQPLRLPACSARPDTSPLWLQWLPQPQPRVRPRKRRRPRRRAPVLSTHHAARVSLHRWG  
GCGPHCRLRGEALVALGQPPHARWAPQQDWHWARRYGLPYVVRVDLRLAPAPPATPAPA  
GTPGPILIPKQALAFAPFSPPKRLRLVSHGSIDLVDVGGEEL

>sp|A6PVL3|KNCN\_HUMAN Kinocilin OS=Homo sapiens GN=KNCN PE=2 SV=1

MDIPISSRDFRGLQLACVALGLVAGSIIIGISVSKAAAAMGGVFIGAAVLGLLILAYPFL  
KARFNLDHILPTIGSLRIHPHPGADHGEGRSSTNGNKEGARSSLSTVSRTLEKLKPGTRG  
AEEC

>sp|P01042|KNG1\_HUMAN Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

MKLITILFLCSRLLSLTQESQSEEDCNDKDLFAVDAALKYNSQNQSNNQFVLYRIT  
EATKTVGSDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAKAATGECTATVGKRSSTKFS  
VATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLN  
EVKRAQRQVAVGLNFRITYSIVQTNSKENFLFLTPDCKSLWNGDTGECTDNAYIDIQLR  
IASFSQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEETLHTITKLNAENNATFYFK  
IDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLDCNAEVVVPW  
EKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEETTVSPHTSMAPAQDEERDSG  
KEQGHTRRHWDGHEKQKRNHGHGKHHERDQGHGHQRGHGLGHGHEQQHGLGHGKFKLD  
DDLEHQGGHVLHDHGHKHKHGHGKHKNKGKNGKHNGWKTEHLASSEDSTTPSAQTQE  
KTEGPTPIPSLAKPGVTVTFSDFQSDLIATMMPPISPAPIQSDDDWPDIQIDPNGLSF  
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>sp|Q1ED39|KNOP1\_HUMAN Lysine-rich nucleolar protein 1 OS=Homo sapiens GN=KNOP1 PE=1 SV=1

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MPLVKKKKKKKKGVSTLCEEHVEPETTLPARRTEKSPSLRKQVFGHLEFLSGEKKKKSP  
LAMSHASGVKTSPPRQGEETRVGKKLKKHKEKKGAQDPTAFSVQDPWFCEAREARDV  
GDTCSVGKKDEEQAALGQKRKRKSPREHNGKVKKKKKIHQEGDALPGHSKPSRSMESPR  
KGSKKKPVKVEAPEYIPISDDPKASAKKMKSKKKVEQPVIEEPALKRKKKKKRKESGVA  
GDPWKEETDLDLEVVLEKKGNMDEAHIDQVRRKALQEEIDRESGKTEASETRKWTGTQFG  
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>sp|Q05655|KPCD\_HUMAN Protein kinase C delta type OS=Homo sapiens GN=PRKCD PE=1 SV=2

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AHIYEGRVIQIVLMRAAEPEVSEVTGVSVLAERCKKNGKAEFWLDLQPQAKVLMVQY  
FLEDVDCKQSMRSEDEAKFPTMNRRAIKAKIHYIKNHEFIATFFGQPTFCSVCKDFVW

GLNKQGYKCRQCNAAIHKKCIDKII GRCTGTAANSRDTIFQKERFNIDMPHRFKVHNYMS  
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RSDSASSEPVGIYQGFEKKTGVAGEDMQDNSGTYGKIWEGSSKCNINNFIFHKVLGKGSF  
GKVLLGELKGRGEYFAIKALKKDVLIDDDVECTMVEKRVLTAAENPFLTHLICTFQTK  
DHLFFVMEFLNGGDLMYHIQDKGRFELYRATFYAAEIMCGLQFLHSGKIIYRDLKLDNVL  
LDRDGHIIADFGMCKENIFGESRASTFCGTPDYIAPEILQGLKYTFSVDWWSFGVLLYE  
MLIGQSPFHGDEDELFESIRVDTPHYPRWITKESKDILEKLFEREPTKRLGVTGNIKIH  
PFFKTINWTLLEKRRLEPPFRPKVKSPRDYSNFDQEFLNEKARLSYSDKNLIDSMDQSAF  
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>sp|Q8IXL9|IQCF2\_HUMAN IQ domain-containing protein F2 OS=Homo sapiens GN=IQCF2 PE=1 SV=1  
MRVRFCTKGNLILVIEDVEESIEWKTLQKKKQQKIKEKLRI RTKA AVKIQA WWRGTLVR  
RTLLHAALRAWIIQCWWRMTLSRVLEKKRQAAL IAYATRERAVIKLQSLVRMWRVRWRYC  
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>sp|A8MTL0|IQCF5\_HUMAN IQ domain-containing protein F5 OS=Homo sapiens GN=IQCF5 PE=2 SV=2  
MGPEEKTIMTERSAAVFIQAWWRGMLVRR TLLHAALRAWIIQCWWRQVLEKLLAKRRRMV  
LEFYVQQEWA AVRLQSWVRMWCVRQRYCRLN NAVRIIQVYWRWHSCHSRVFIEGHYELKE  
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>sp|Q8N6M8|IQCF1\_HUMAN IQ domain-containing protein F1 OS=Homo sapiens GN=IQCF1 PE=2 SV=2  
MEEKQPQKTKEPSKEDEPQQKEMPTHLSLGAESKAEAKTPVLVETQTVDNANEKSEKPPE  
NQKKLSDKDTVATKIQAWWRGTLVRRALLHAALSACIIQCWWRLILSKILKKRRQAAL EA  
FSRKEWA AVTLQSQARMWIRRRRYCQVLNAVRIIQAYWRCRSCASRGFIKGQYRV TANQL  
HLQLEILLDSGPCIVTECIPFSIKE

>sp|Q1A5X6|IQCJ\_HUMAN IQ domain-containing protein J OS=Homo sapiens GN=IQCJ PE=2 SV=1  
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LQRQEPLGKRSPSPSVSSEKLSSSVSMNTFSDSSTPFARAPVGKIHPYISWRLQSPGDK  
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>sp|Q15306|IRF4\_HUMAN Interferon regulatory factor 4 OS=Homo sapiens GN=IRF4 PE=1 SV=1  
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DYNREEDAALFKAWALFKGKFREGIDKDPPTWKTRLRCALNKSNDFEELVERSQLDISD  
PYKVYRIVPEGAKKGAKQLTLED PQMSMHPYTMTPYPSLPAQQVHNYMMPPLDRSWRD  
YVPDQPHPEIPYQCPMTFGPRGHHWQGPACENGCVTGTFTYACAPPESQAPGVPT EPSIR  
SAEALAFSDCRLHICLYREILVKELTTSSPEGCRISHGHTYDASNLDQVLPYPEDNGQ  
RKNIEKLLSHLERGVVLMAPDGLYAKRLCQSRIYWDGPLALCND RPNKLERDQTCKLFD  
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>sp|A6NK06|IRG1\_HUMAN Cis-aconitate decarboxylase OS=Homo sapiens GN=ACOD1 PE=1 SV=1  
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SSNISSTVWGQPDIRLPPTYAA FVNGVAIHSMDFDDTWHPATHPSGAVLPVLTALAEALP  
RSPKFSGLDLLLAFNVGIEVQGRLLHFAKEANDMPKR FHPPSVVGTLSAAAASKFLGLS  
STKCREALAI AVSHAGAPMANAATQTKPLHIGNAAKHGIEAAFLAMLGLQGNKQVLDLEA  
GFGAFYANYSPKVLPSIASYSWLLDQQDVAFKRFP AHLSTHWVADAAASVRKHLVAERAL  
LPTDYIKRIVLRIPNVQYVNRFPFVSEHEARHSFQYVACAMLLDGGITVPSFHECQINRP  
QVRELLSKVELEYPPDNLPSFNILYCEISVTLKDGATFTDRSDTFYGHWRKPLSQEDLEE  
KFRANASKMLS WDTVESLIKIVKNLEDLED CSVLTTLKGPSPPEVASNSPACNNSITNL

S

>sp|A1A4Y4|IRGM\_HUMAN Immunity-related GTPase family M protein OS=Homo sapiens GN=IRGM  
PE=1 SV=2

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KASPPTELVKATQRCASYFSSHFSNVVLWDLPGTGSATTTLNENYLMEMQFNRYDFIMVAS  
AQFSMNHVMLAKTAEDMGKKFYIVWTKLMDLSTGALPEVQLLQIRENVLENLQKERVCE  
Y

>sp|Q9NP60|IRPL2\_HUMAN X-linked interleukin-1 receptor accessory protein-like 2 OS=Homo  
sapiens GN=IL1RAPL2 PE=2 SV=1

MKPPFLLALVVCSSVSTNLKMSKRNSVDGCIDWSVDLKYMALAGEPVRVKALFYSYI  
RTNYSTAQSTGLRLMWYKNKGDLLEPIIFSEVRMSKEEDSIWFHSAEAQDSGFYTCVLRN  
STYCMKVSMSLTVAENESGLCYNRSRIRYLEKSEVTKRKEISCPDMDDFKKSDQEPDVVWY  
KECKPKMWRSIIIIQKGNALLIQEVQEEDGGNYTCELKYEGLVRRRTTELKVTALLTDKPP  
KPLFPMENQPSVIDVQLGKPLNIPCKAFFGFSGESGPMIYWMKGEKFI EELAGHIREGEI  
RLLEHLGEKEVELALIFDSVVEADLANYTCHVENRNGRKHASVLLRKKDLIYKIELAGG  
LGAIFLLLVLVVIYKYNIELMLFYRQHFGADETNDNKEYDAYLSYTKVDQDTLDCDN  
PEEEQFALEVLDPVLEKHYGYKLFIPERDLIPSGTYMEDLTRYVEQSRRLIIVLTPDYIL  
RRGWSIFELESRLHNMLVSGEIKVILIECTELKGKVNCEVESLKRSIKLLSLIKWKGSK  
SSKLNKFWKHLVYEMPIKKKEMLPCHVLDSAEQGLFGELQPIPSIAMTSTSATLVSSQ  
ADLPEFHPSDSMQIRHCCRGYKHEIPATTLVPVPSLGNHHTYCNLPLTLLNGQLPLNNTLK  
DTQEFHRNSSLLPLSSKELSFTSDIW

>sp|P78415|IRX3\_HUMAN Iroquois-class homeodomain protein IRX-3 OS=Homo sapiens GN=IRX3  
PE=2 SV=3

MSFPQLGYQYIRPLYPSERPGAAGSGGSAGARGGLGAGASELNASGSLSNVLSSVYGAP  
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ARRRLKKENKMTWAPRSRTDEEGNAYGSEREEEEDEEDEDGKRELEEEEEELGGEEDT  
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EDRPLPVLSLAPAPPVAVASPSLPSPVSLDPCAPAPAPASALQPKIWSLAETATSPD  
NPRRSPPGAGGSPPGA AVAPSALQLSPAAAAAAHRLVSAPLGKFPATNRPFPGPPPGP  
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VPRRPQNHLDAALVLSALSSS

>sp|Q9H1K1|ISCU\_HUMAN Iron-sulfur cluster assembly enzyme ISCU, mitochondrial OS=Homo  
sapiens GN=ISCU PE=1 SV=2

MAAAGAFRLRRAASALLRSRPLPARELSAPARLYHKKVVDHYENPRNVGSLDKTSKNVG  
TGLVGAPACGDVMKLQIQVDEKGIKDARFKTFGCGSAIASSSLATEWVKGKTVEEALTI  
KNTDIAKELCLPPVKLHCSMLAEDAIIKAALADYKLGKQEPKKGEAEKK

>sp|P00995|ISK1\_HUMAN Serine protease inhibitor Kazal-type 1 OS=Homo sapiens GN=SPINK1  
PE=1 SV=2

MKVTGIFLLSALALLSLSGNTGADSLGREAKCYNELNGCTKIYDPVCGTDGNTYPNECVL  
CFENRKRQTSILIQKSGPC

>sp|Q6UWN8|ISK6\_HUMAN Serine protease inhibitor Kazal-type 6 OS=Homo sapiens GN=SPINK6  
PE=1 SV=1

MKLSGMFLLLSLALFCFLTGVFSQGGQVDCGEFQDPKVYCTRESNPHCGSDGQTYGNKCA



FCKAIVKSGGKISLKHPGKC

>sp|Q13683|ITA7\_HUMAN Integrin alpha-7 OS=Homo sapiens GN=ITGA7 PE=1 SV=3

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QLQPRPQSWLLVGAPQALALPGQQANRTGGLFACPLSLEETDCYRVDIDQGADMQKESKE  
NQWLGVSVRSQGPGGKIVTCAHRYEARQRVDQILETRDMIGRCFVLSQDLAIRDEL D GGE  
WKFCEGRPQGHEQFGFCQQGTAAAFSPDSHYLLFGAPGTYNWKG TARVELCAQGSADLAH  
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LALNSYLGFSIDSGKGLVRAEELSFVAGAPRANHKGAVVILRKDSASRLVPEVMLSGERL  
TSGFGYSLAVADLNSDGWPD LIVGAPYFFERQEELGGAVVYVLNQGGHWAGISPLRLCGS  
PDSMFGISLAVLGDNLQDGFPIAVGAPFDGDGKVFIYHGSSLGVVAKPSQVLEGEAVGI  
KSFYSLSGSLMDMGNQYPDLLVGLADTAVLFRARPILHVSHEVSIAPRSIDLEQPNCA  
GGHSVCVDL RVCFSYI AVPSSYSPTVALDYVL DADTD RRLRGQVPRVTFLSRNLEEPKHQ  
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ILNAHQ PSTQRAEIHFLKQGGCEDKICQSNLQLVRARFCTRVSDTEFQPLPMDVDGTTAL  
FALSGQPVI GLELMVTNLPSDPAQPQADGDDAHEAQLL VMLPDSLHYSGVRALDPAEKPL  
CLSNENASHVECELGNPMKRGAQVTFYLILSTSGISIETTELEVE LLLATISEQELHPVS  
ARARVFIELPLSIAGMAIPQQLFFSGVVRGERAMQSERDVGSKVKEVTVSNQGGSLRTL  
GSAFLNIMWPHEIANGKWLLYPMQVELEGGQGPQKGLCSRPN ILHLDVDSRDRRRREL  
EPPEQQEPGERQEPSMSWWPVSSAEKKKNITLDCARGTANC VVFCPLYSFDRAAVLHVW  
GRLWNSTFLEEYS AVKSLEIVRANITVKSSIKNLMLRDASTVIPVMVYLDPM AVVAEGV  
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>sp|P38570|ITAE\_HUMAN Integrin alpha-E OS=Homo sapiens GN=ITGA E PE=1 SV=3

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ELTGTC SLLGPDLR PQAQANFDLENLLDPDARVDTGDCYSNKEGGGEDDVNTARQRRAL  
EKEEEEDEKEEEEDEEEEEEAGTEIAI ILDGSGSIDPPDFQRAKDFISNMMRN FYEKCFCEN  
FALVQYGGVIQTEFDLRDSQDV MASLARVQNI TQVGSVKTASAMQHVLDSIFTSSHGSR  
RKASKVMVVLTDGGIFEDPLNLTTVINSPKMQGV ERFAIGVGEEFKSARTARELNLIASD  
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VGAFDWSGGALLYDTRSRRGRFLNQTA AAAADA EAAQSYLGYAVAVLHKTCSLSYIAGA  
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VHGEEGRVYVYRLSEQDGSFSLARILSGHPGFTNARFGFAMAAMGDLSDKLT DVAIGAP  
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ADITVGT LGQAVVFRSRPVVRLKVSMAFTPSALPIGFNGVVNVRLCFEISSVTTASESGL  
REALNFTLDVDVGKQRRRLQCS DVRSCLGCLREWSSGSQ LCEDLLLMPTEGELCEEDCF  
SNASVKVSYQLQTP EGQTDHPQPI LD RYTEPF AIFQLPYEKACKNKLFCVAELQLATTVS  
QQELVVGLTKELTLNINLTNSGEDSYMTSMALNYPRNLQLKRMQKPPSPNIQCDDPQPVA  
SVLIMNCRIGHPVLRSSAHVS VVWQLEENAFPNRTADITVTVTNSNERRSLANETHTLQ  
FRHGFVAVLSKPSIMYVNTGQGLSHHKEFLFHVHGENLFGAEYQLQICVPTKLRGLQVVA  
VKKLTRTQASTVCTWSQERACAYSSVQHVEEWSVSCV IASDKENVTVAAEISWDHSEEL  
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VILVILFKCGFFKRKYQQNLNESIRKAQLKSEN LLEEN

>sp|P06756|ITAV\_HUMAN Integrin alpha-V OS=Homo sapiens GN=ITGA V PE=1 SV=2

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HQWFGASVRSKQDKILACAPLYHWRTMKQEREPVGTCLQDGTKTVEYAPCRSQDIDAD  
GGGFCQGGFSIDFTKADRVLLGGPGSFYWQGLISDQVAEIVSKYDPNVYSIKYNNQLAT  
RTAQAIFFDDSYLGYSVAVGDFNGDGIDDFVSGVPRAARTLGMVYIYDGKNMSSLYNFTGE  
QMAAYFGFSVAATDINGDDYADVFIGAPLFMDRGS DGKLQEVGQVSVSLQRASGDFQTTK  
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LEGQWAARSMPPSFGYSMKGATDIDKNGYPDLIVGAFGVDRAILYRARPVITVNAGLEVY  
PSILNQDNKTCSLPGTALKVSCFNVRFLKADGKGVLPRKLNQVELLLDKLKQKGAIRR  
ALFLYSRSPSHSKNMTISRGGMLQCEELIAYLRDESEFRDKLTPITIFMEYRLDYRTAAD  
TTGLQPILNQFTPANISRQAHILLDCGEDNVCKPKLEVSVSDSQKKIYIGDDNPLTLIVK  
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TQLLAGLRFSVHQQSEMDTSVKFDLQIQSSNLFDKVSPVVS HKVDLAVLA AVEIRGVSSP  
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TLGCGVAQCLKIVCQVGRDRGKSAILYVKSLLWTETFMNKENQNSYSLKSSASFNVIE  
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>sp|P16144|ITB4\_HUMAN Integrin beta-4 OS=Homo sapiens GN=ITGB4 PE=1 SV=5

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EVFEPLESPVDLYILMDFSNSMSDDLNLKMGQNLARVLSQLTSDYTIGFGKFVDKVS  
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TQDYPSPVPTLVRLLAKHNIPIFAVTNYSYSYIEKLHTYFPVSSLGVLQEDSSNIVELLE  
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THVCQLPEDQKGNHILKPSFSDGLKMDAGIICDVCTCELQKEVRSARCSFNGDFVCGQCV  
CSEGSWGQTCNCSTGSLSDIQCLREGEDKPCSGRGECQCGHCVCYEGEGRYEGQFCEYDN  
FQCPRTSGLCNDRGRCMGGQVCCEPGWTGPSCDCPLSNATCIDSNGGICNCRGHCECGR  
CHCHQQSLYTDITCEINYSAIHPGLCEDLRSCVQCQAWGTGEKKGRTCEEKNFKVMVDE  
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LLPLLALLLLLCWKYACCKACLALLPCCNRGHMVGFKEDHYMLRENLMASDHLDTPMLR  
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NDDNRPIGPMKKVLVDNPKNRMLLIENLRESQPYRYTVKARNAGWGPEREAIINLATQP  
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EELDLRRVTWRLPPELIPRLSASSGRSSDAEAPHGPPDDGGAGGKGS LPRSATPGPPGE  
HLVNGRMDFAFPGSTNSLHRMTTSSAAAYGTHLSPHVPHRVLSTSSTLTRDYNLSLTRSEH

SHSTTLPRDYSTLTSVSSHDSRLTAGVPDTPTRLVFSALGPTSLRVSWQEPRCERPLQGY  
SVEYQLLNGGELHRLNIPNPAQTSVVVEDLLPNHSYVFRVRAQSQEGWGREREGVITIES  
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>sp|P18564|ITB6\_HUMAN Integrin beta-6 OS=Homo sapiens GN=ITGB6 PE=1 SV=2

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>sp|O14713|ITBP1\_HUMAN Integrin beta-1-binding protein 1 OS=Homo sapiens GN=ITGB1BP1 PE=1  
SV=1

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VSTSDQYDVLHRHALYLIIRMVCYDDGLGAGKSL LALKTTDASNEEYSLWVYQCNSLEQA  
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>sp|Q96J02|ITCH\_HUMAN E3 ubiquitin-protein ligase Itchy homolog OS=Homo sapiens GN=ITCH  
PE=1 SV=2

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PSLSNGGFKPSRPPRPSRPPPTPRRPASVNGSPSATS ESDGSSTGSLPPTNTNTNTSEG  
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LLCGMQEIDLNDWQRHAIYRHYARTSKQIMFWFQVKEIDNEKMRLLQFVTGTCLRPVG  
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GQE

>sp|Q9BY32|ITPA\_HUMAN Inosine triphosphate pyrophosphatase OS=Homo sapiens GN=ITPA PE=1 SV=2

MAASLVGKKIVFVTGNAKKLEEVVQILGDKFPCTLVAQKIDLPEYQGEPDEISIQKCQEA  
VRQVQGPVLVEDTCLCFNALGGLPGPYIKWFLEKLKPEGLHQLLAGFEDKSAYALCTFAL  
STGDPSQPVRLFRGRTSGRIVAPRGCQDFGWDPCFQPDGYEQTYAEMPKAEKNAVSHRFR  
ALLELQEYFGSLAA

>sp|Q15811|ITSN1\_HUMAN Intersectin-1 OS=Homo sapiens GN=ITSN1 PE=1 SV=3

MAQFPTPFGGSLDIWAITVEERAKHDQQFHSLKPISGFITGDQARNFFFQSGLPQPVLAQ  
IWALADMNNDGRMDQVEFSIAMKLIKLLQGYQLPSALPPVMKQQPVAISSAPAFGMGGI  
ASMPPLTAVAPVPMGSIPIVVGMSPTLVSSVPTAAVPPLANGAPPVIQPLPAFAHPAATLP  
KSSFSRSRSGPSQLNTKLQKAQSFVASVPPVAEWAVPQSSRLKYRQLFNSHDKTMSGHL  
TGPQARTILMQSSLPQAQLASIWNLSDIDQDGKLTAEFILAMHLIDVAMSGQPLPPVLP  
PEYIPPSFRRVRSGSGISVISSTSVDRQLPEEPVLEDEQQLEKKLPVTFEDKKRENFER  
GNLELEKRRQALLEQQRKEQERLAQLERAEQERKERERQEERKRQLELEKQLEKQRELE  
RQREEERRKEIERREAAKRELERQRQLEWERNRRQELLNQRNKEQEDIVVLKAKKKTLEF  
ELEALNDKKHQLGEGKLQDIRCLTTQRQEIESTNKSRELRIAEITHLQQQLQESQQMLGR  
LIPKQILNDQLKQVQNSLHRDSLVTLKRALEAKELARQHRLDQLDEVKETRSLQEI  
DIFNNQLKELREIHNKQQQLKQKSMEARLKQKEQERKIELEKQKEEAQRRQERDKQW  
LEHVQQEDEHQRPRKLHEEEKLKREESVKKKDGEKQKQEAQDKLGRLFHQHQPAPAV  
QAPWSTAEGKPLTISAQENVKVYYRALLYPFESRSHDEITIQPGDIVMKGEWVDESQTG  
EPGWLGGELKGTGWFPANYAEKIPENEVPAPVKPVTSTAPAPKLALRETPAPLAVTS  
SEPSTTPNNWADFSTWPTSTNEKPETDNWDAAQPSLTVPSAGQLRQSAFTPATATG  
SSPSPVLGQGEKVEGLQAQALYPWRAKDNHLNFNKNDVITVLEQQDMWWFGEVQGGQGW  
FPKSYVKLISGPIRKSTSMDSGSESPASLKRVASPAKPVVSGEEFIAMTYESSEQGD  
LTFQQGDVILVTKKDGDDWTTGTVDKAGVFPSNYVRLKDESGGTAGKTGSLGKKPEIAQ  
VIASYTATGPEQLTLAPGQLILIRKKNPGGWWEGELQARGKKRQIGWFPANYVKLLSPGT  
SKITPTEPPKSTALAAVCQVIGMYDYTAQNDELAFNKGQIINVLNKEDPDWWKGEVNGQ  
VGLFPSNYVKLTDDMPSQQWCSDLHLLDMLTPTERKRQGYIHELIVTEENYVNDLQLVT  
EIFQKPLMESELLTEKEVAMIFVNWKELIMCNIKLLKALVRKKMSGKMPVKMIGDILS  
AQLPHMQPYIRFCSRQLNGAALIQKKTDEAPDFKEFVKRLAMDPRCKGMPLSSFILKPMQ  
RVTRYPLIKNILENTPENHPDHSCLKHALEKAEELCSQVNEGVRKENSRLLEWIQAHV  
QCEGLSEQLVFNSVTNCLGPRKFLHSGKLYKAKSNKELYGFLFNDFLLLTQITKPLGSSG  
TDKVFSPKSNLQYKMYKTPIFLNEVLVKLPDTPSGDEPIFHISHIDRVYTLRAESINERT  
AWVQKIIKAASELYIETEKKKREKAYLVRSQRATGIGRLMVNVVEGIELKPCRSHGKSNPY  
CEVTMGSQCHITKTIQDTLNPKWNSNCQFFIRDLEQEVLCITVFERDQFSPDDFLGRTEI  
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>sp|Q9NZM3|ITSN2\_HUMAN Intersectin-2 OS=Homo sapiens GN=ITSN2 PE=1 SV=3

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SMPNLSIPQPLPAAPIITSLSSATSGTNLPPLMMPTPLVPSVSTSSLPNGTASLIQPLPI  
PYSSSTLPHGSSYSLMMGGFGGASIQKAQSLIDLGSSSSSTASLSGNSPKTGTSEWAV  
PQPTRLKRYRQKFNTLDKSMGYLSGFGQARNALLQSNSQTQLATIWTLADVDDGGLKAE  
EFILAMHLTDMAGAGQPLPLTLPELVPPSFRGGKQIDSINGTLPSYQKMQUEEPQKKLP

VTFEDKRRKANYERGNMELEKRRQALMEQQQREAEKKAQKEKEEWEKQRELQEQEWKKQL  
ELEKRLEKQRELERQREEERRKDIERREAAKQELERQRRLEWERIRRQELLNQKNREQEE  
IVRLNSKKKNLHLEALNGKHQQISGRQLQDVRLKKQTQKTELEVLDKQCDLEIMEIKQL  
QQELQEYQNKLIYLVEPKQLLNERIKNMQFSNTPDSGVSLHKKSLKEEELCQRLKEQLD  
ALEKETASKLSEMDSFNNQLKCGNMDDSVLQCLLSLLSCLNNLFLLLKELRETYNTQQLA  
LEQLYKIKRDKLKEIERKRLELMQKKKLEDEAARKAKQGKENLWKENLRKEEEEKQKRLQ  
EETQEKIQEEERKAEEKQRKDKDTLKAEEKKRETASVLVNYRALYPFEARNHDEMSFNS  
GDI IQVDEKTVGEPGWLYGSFGNFGWFPNCYVEKMPSSENEKAVSPKKALLPPTVSLSA  
TSTSSEPLSSNPASVTDYQNVFSNLTVNTSWQKSAFTRTVSPGSVSPIHGQQVVEN  
LKAQALCSWTAKKDNHLNFSKHDIITVLEQQENWWFGEVHGGRGWFPKSYVKIIPGSEVK  
REEPEALYA AVNKKPTSAAYSVGEYIALYPYSSVEPGDLTFTEGEEILVTQKDGEWWTG  
SIGDRSGIFPSNYVKPKDQESFGSASKSGASNKKPEIAQVTSAYVASGSEQLSLAPGQLI  
LILKNTSGWWQGELQARGKKRQKGFPAHVKLLGPSSERATPAFHPVCQVIAMYDYAA  
NNEDELSFSKGQLINVMNKDDPDWWQGEINGVTGLFPSNYVKMTTSDSPSQWCADLQTL  
DTMQPIERKRQGYIHელიQTEERYMADLQLVVEVFQKRMAESGFLTEGEMALIFVNWKEL  
IMSNTKLLKALVRKKTGGEKMPVQMIGDILAAELSHMQAYIRFCSCQLNGAALLQKQTD  
EDTDFKEFLKKLASDPRCKGMPSSFLKPMQRITRYPLLIRSILENTPESHADHSSLKL  
ALERAEEELCSQVNEGVRKENSRLLEWIQAHVQCEGLAEQLIFNSLTNCLGPRKLLHSGK  
LYKTKSNKELHGFLFNDFLLLTYMVKQFAVSSGSEKLFSSKSNAQFKMYKTPIFLNEVLV  
KLPTDPSSDEPVFHI SHIDRVYTLRTDNINERTAWVQKIKAASEQYIDTEKKKREKAYQA  
RSQKTSIGIRGLMVHVI EATELKACKPNGKSNPYCEISMGSQSYTTRTIQDTLNPKNWFNC  
QFFIKDLYQDVLCLTLFDRDQFSPDDFLGRTEIPVAKIRTEQESKGPMTRRLLLHEVPTG  
EVWVRFDLQLFEQKTLL

>sp|P26440|IVD\_HUMAN Isovaleryl-CoA dehydrogenase, mitochondrial OS=Homo sapiens GN=IVD  
PE=1 SV=1

MATATRLLGWRVASWRLRPPLAGFVSQRAHSLLPVDDAINGLSEEQRQLRQTMAKFLQEH  
LAPKAQEIDRSNEFKNLREFWKQLGNLGVLGITAPVQYGGSGLGYLEHVLVMEEISRASG  
AVGLSYGAHSLNCINQLVRNGNEAQKEKYLPKLISGEYIGALAMSEPNAGSDVVSMLKA  
EKKGNHYILNGNKFWITNGPDADVLIVYAKTDLA AVPASRGITAFIVEKGMPGFSTSKKL  
DKLGMRSNTCELIFEDCKIPAANILGHENKGVYVLM SGLDLERLVL AGGPLGLMQAVLD  
HTIPYLHVREAFGQKIGHFQLMQGMADMYTRLMACRQYVYNVAKACDEGHCTAKDCAGV  
ILYSAECATQVALDGIQCFGGNGYINDFPMGRFLRDAKLYEIGAGTSEVRRLVIGRAFNA  
DFH

>sp|Q5VZ72|IZUM3\_HUMAN Izumo sperm-egg fusion protein 3 OS=Homo sapiens GN=IZUM03 PE=3  
SV=4

MGDLWLFLLLPLSAFHGVKGCLECDPKFIEDVGSLLGNLIPSEVPGRTQLLERQIKEMIH  
LSFKVSHSDKRLRLVAVQQVVKLRTWLKNEFYKLGNETWKGVFIYQGKLLDVCQNLESKL  
KELLKNFSEIACSEDCIVVEGPILDCWTCLRMTNRCFKGEYCGDEDPRKAENREIALFLI  
LLATAVILGSAVLLFHFICIFHRRKMKAI RRSKEYVEKKLEELMGKIDEKEEKDFRLRK

>sp|Q9NC1|JADE2\_HUMAN Protein Jade-2 OS=Homo sapiens GN=JADE2 PE=1 SV=2

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TMLGEGSQPDWPGGSRDYDLDEIDAYWLELINSELKEMERPELDELTLERVLEELETCHQ  
NMARAIETQEGLGIEYDEDVVCDCVRSPEGEDGNEMVFCDKCNVCVHQACYGILKVPTGS

WLCRTCALGVQPKCLLCPKRGGALKPTRSGTKVHVSCALWIPEVSIQCPEKMEPITKIS  
HIPASRWALSCSLCKECTGTCTICQSMPSCVTAFHVTCAFDHGLEMRTILADNDEVKFKSF  
CQEHSDDGGPRNEPTSEPTSPQAGEDLEKVTLRKQRLQQLEEDFYELVEPAEVAERLDA  
EALVDFIYQYWLKRRKANANQPLLTPKTDEVNLAQQEQDVLVYRRLKLFTHLRQDLERVR  
NLCYMVTRRERTKHAICKLQEQIFHLQMKLIEQDLCRGLSTSFPIDGTFNSWLAQSVQI  
TAENMAMSEWPLNNGHREDPAPGLLSEELLQDEETLLSFMRDPSLRPGDPARKARGRTRL  
PAKKKPPPPPPQDGPGRSTTPDKAPKKTWGQDAGSGKGGQGPTRKPPRRTSSHLPSSPA  
AGDCPILATPESPPPLAPETPDEAASVAADSDVQVPGPAASPKPLGRLRPPRESKVTRRL  
PGARPDAAGMPPSAVAERPVSLSLHFDTETDGYFSDGEMSDSDVEAEDGGVQRGPREGAE  
EVVRMGVLAS

>sp|Q9Y219|JAG2\_HUMAN Protein jagged-2 OS=Homo sapiens GN=JAG2 PE=1 SV=3

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GCGHDECDTYVRVCLKEYQAKVTPTGPCSYGHGATPVLGGNSFYLPAGAAGDRARARAR  
AGGDQDPGLVVIPFQFAWPRSFTLIVEAWDWDNDTTPNEELLIERVSHAGMINPEDRWKS  
LHFSGHVAHLELQIRVRCDENYYSATCNKFCRPRNDFFGHYTCDQYGNKACMDGWMGKEC  
KEAVCKQGCNLLHGGCTVPGEGRCSYGWQGRFCDECVPYPGCVHGSCVEPWQCNCETNWG  
GLLCKDLNYCGSHHPCTNGGTCINAEPDQYRCTCPDGYSGRNCEKAEHACTSNPCANGG  
SCHEVPSGFECPCPSGWSGPTCALDIDECASNPCAAGGTCVDQVDGFECICPEQWVGATC  
QLDANECEGKPCLNAFSCKNLIGYYCDCIPGWKGINCHINVNDCRGQCQHGCTCKDLVN  
GYQCVCPRGFGGRHCELERDECASSPCHSGGLCEDLADGFHCHCPQGFSGPLCEVDVDLC  
EPSPCRNGARCYNLEGDYYCACPDDFGGKNCSVPREPCPGGACRVIDGCGSDAGPGMPGT  
AASGVCPPHGRCVSQPGGNFSCICDSGFTGTYCHENIDDLGQPCRNGGTCIDEVDAFRC  
FCPSGWEGLCDTNPNDCLPDPCHSRGRCYDLVNDFYCACDDGWGKKTCHSREFQCDAYT  
CSNGGTCYDSGDTFRACPPGWKGSTCAVAKNSSCLPNPCVNGGTCVGSASFSCICRDG  
WEGRTCTHNTNDCNPLPCYNGGICVDGVNWFRCCEAPGFAGPDGRINIDECQSSPCAYGA  
TCVDEINGYRCSPPGRAGPRCQEVIGFGRSCWSRGTPFPHGSSWVEDCNSCRCLDGRRD  
CSKVWCGWKPCLLAGQPEALSAQCPLGQRCLEKAPGQCLRPPCEAWGECGAEPPSTPCL  
PRSGHLDNNCARLTLHFNRDHPQGTTVGAICSGIRSLPATRAVARDRLVLLCDRASSG  
ASAVEVAVSFSPARDLPDSSLIQGAHAIVAAITQRGNSSLLAVTEVKVETVVTGGSST  
GLLVPVLCGAFSVLWLACVVLVWVTRKRRKERERSRLPREESANNQWAPLNPINPIER  
PGGHKDVLYQCKNFTPPPRADEALPGPAGHAAREDEEDEDLGRGEEDSLEAEKFLSHK  
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>sp|Q8N5M9|JAGN1\_HUMAN Protein jagunal homolog 1 OS=Homo sapiens GN=JAGN1 PE=1 SV=1

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RLLSHDQVAMPYQWEYPYLLSILPSLLGLLSFPRNNISYLVLSMISMGLFSIAPLIYGSM  
EMFPAAQQLYRHGKAYRFLFGFSAVSIMYLVVLAVQVHAWQLYYSKKLLDSWFTSTQEK  
KHK

>sp|Q86YT9|JAML\_HUMAN Junctional adhesion molecule-like OS=Homo sapiens GN=JAML PE=1 SV=1

MFCPLKLILLPVLLDYSGLNLDNVSPPELTVHVGDSALMGCVFQSTEDKICFKIDWTLS  
PGEHAKDEYVLYYNSLVPIGRFQNRVHLMGDILCNDGSLLLQDVQEADQGTIYCEIRL  
KGESQVFKKAVVLHVLPEEPKELMVHVGGLIQMGCVFQSTEVKHVTKVEWIFSGRRAKEE  
IVFRYYHKLMSVEYSQSWGHFQNRVNLVGDIFRNDGSIMLQGVRESGGNYTCSIHLGN  
LVFKKTIIVLHVSPEEPRTLVTAAALRPLVLGGNQLVIVGIVCATILLPVILIVKKTC  
GNKSSVNSTVLVKNTKKTNPETKEKPCHFERCEGEKHIYSPIIIVREVIEEEEPSEKSEAT

YMTMHPVWPSLRSDRNSLEKSGGGMPKTQQAF

>sp|Q86VZ6|JAZF1\_HUMAN Juxtaposed with another zinc finger protein 1 OS=Homo sapiens  
GN=JAZF1 PE=1 SV=2

MTGIAAASFNTCRFGGCGLHFPTLADLIEHIEDNHIDTDPVLEKQELQQPTYVALSY  
INRFMTDAARREQESLKKKIQPKLSLTLSSSVSRGNVSTPPRHSSGSLTPPVTPPITPSS  
SFRSSTPTGSEYDEEEVDYEESDSDSWTTESAISSEAILSSMCMNGGEEKPFACVPVPGC  
KKRYKNVNGIKYHAKNGHRTQIRVRKPFKRCGKSYKTAQGLRHHTINFHPPVSAEIRK  
MQQ

>sp|Q9Y4A0|JERKL\_HUMAN Jerky protein homolog-like OS=Homo sapiens GN=JRKL PE=2 SV=2

MSGKRKRVLTIKDKLDIICKLEDGGSSKQLAVIYGIGETTVRDIRKNKEKIITYASSSD  
STSLAKRKSMPKSMYEELDRAMLEWFNQRAKGNPISGPICAKRAEFFFYALGMDGDFN  
PSAGWLTRFKQRHSIREINIRNERLNGDETAVEDFCNNFRDFIERENLQPEQIYNADETG  
LFWKCLPSRISVIKCKCTVPGHKSIEERTIMCCANATGLHKLKLCVVGAKKPRSFKST  
DTLNLPVSYSFQKGAWMDLSIFRQWFDKIFVPQVREYLRSKGLQEKAVLLLDNSPHTPNE  
NVLRSDDGQIFAKYLPNVASLIQPSDQGV IATMKRNYRAGLLQNNLEEGNDLKSFWKKL  
TLLDALYEIAMAWNLVKPVTTISRAWKKILPMVEEKESLDFDVEDISVATVAAILQHTKGL  
ENVTTENLEKWLEVDSTEPGYEVLTDSEIIRRAQQGADESSENEEEEIELIPEKHINHAA  
ALQWTENLLDYLEQQGDMILPDRLVIRKLRTIRNKQKMTKSSQ

>sp|Q13387|JIP2\_HUMAN C-Jun-amino-terminal kinase-interacting protein 2 OS=Homo sapiens  
GN=MAPK8IP2 PE=1 SV=2

MADRAEMFSLSTFHSLSPPGCRPPQDISLEEFDDDLSEITDDCGLGLSYSDHCEKDSL  
SLGRSEQPHPICSFQDDFQEFEMIDNNEEDEDDEEEEEEEEGDGEGQEGGDPGSEAPA  
PGPLIPSPSVEEPHKHRPTTLRLTTLGAQDSLNNNGGFDLVRPASWQETALCSPAPEALR  
ELPGPLPATDTGPGGAQSPVRPGDCENRPAEPPAPGGTSPSSDPGIEADLRSSSGGR  
GGRSSQELSSPGSDSEDAGGARLGRMISSISETELELSSDGSSSSGRSSHLTNSIEEA  
SSPASEPEPPPREPPRPAFLPVGPDNTSEYESGSESEPDLSEDADSPWLLSNLVSRMIS  
EGSSPIRCPGQCLSPAPRPPGEPVSPAGGAAQDSQDPEAAAGPGGVELVDMETLCAPPPP  
AAPAPRPGAQPGPCLFLSNPTRDTITPLWAAPGRAARPRACSAACSEEEDEEDDEEEE  
DAEDSAGSPGGRGTGPSAPRDASLVYDAVKYTLVVDEHTQLELVSLRRCAGLGHDSSEDS  
GGEASEEEAGAALLGGGQVSGDTPDSPDLTFSKKFLNVFVNSTSRSSSTESFGLFSCLV  
NGEEREQTHRAVFRFIPRHPDELELDVDDPVLVEAEEDDFWFRGFNMRTGERGVFPAFYA  
HAVPGPAKDLLGSKRSPCWVERFDVQFLGSVEVPCHQGNGILCAAMQKIATARKLTVHLR  
PPASCDLEISLRGVKLSLSGGGPEFQRCSHFFQMKNISFCGCHPRNSCYFGFITKHPLLS  
RFACHVFSVQESMRPVAQSVGRAFLEYQEHLAYACPTEDIYLE

>sp|Q9P055|JKAMP\_HUMAN JNK1/MAPK8-associated membrane protein OS=Homo sapiens GN=JKAMP  
PE=2 SV=2

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CQPCTESPELYDWLYLGFMAMLPLVLHWFFIEWYSGKKSSSALFQHITALFECSMAAIIT  
LLVSDPVGVLVIRSCRVLMLSDWYTMLYNPSPDYVTTVHCTHEAVYPLYTIVFIYYAFCL  
VLMMLLRPLLVKKIACGLGKSDRFKSIYAALYFFPILTVLQAVGGGLLYAFPIIILVLS  
LVTLAVYMSASEIENCYDLLVRKKRLIVLFSHWLLHAYGIISISRVDKLEQDLPLLALVP  
TPALFYLFATAKFTEPSRILSEGANGH

>sp|Q9HDC5|JPH1\_HUMAN Junctophilin-1 OS=Homo sapiens GN=JPH1 PE=1 SV=2

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QGYWAQKGRHGLGVETK GKW MYRGEWSHGFKGRYGV RQSLCTPARYEGTWSNGLQDGYGV  
ETYDGGTYQGQWAGGMRHGYGV RQSVPYGMATVIRSPLRTSLASLRSEQSNGSVLHDA  
AAADSPAGTRGGFVLNFHADAELAGKKKGGLFRRGSLLGSMKLRKSESKSSISSKRSSVR  
SDAAMSRISSSDANSTISFGDVDCDFCPVEDHVDATTTETYMGEWKNDKRNGFGVSERSN  
GMKYEGEWANNKRHGYGCTVFPDGSKEEGKYKNNILVRGIRKQLIPRHTKTREKVDRAI  
EGAQRAAAMARTKVEIANSRTAHARAKADAADQAALAAARQECDIARAVARELSPDFYQPG  
PDYVKQRFQEGVDAKENPEEKVPEKPPTPKESPHFYRKGTTPPRSPEASPKHSHSPASSP  
KPLKKQNPSSGARLNQDKRSVADEQVTAIVNKPLMSKAPTKEAGAVVPQSKYSGRHHIPN  
PSNGELHSQYHGYVVKLNAPQHPPVDVEDGDGSSQSSSALVHKPSANKWSPSKSVTKPVA  
KESKAEPKAKKSELAIPKNPASNDSCPALEKEANS GPNSIMIVLVMLLNIGLAILFVHFL  
T

>sp|Q8WXH2|JPH3\_HUMAN Junctophilin-3 OS=Homo sapiens GN=JPH3 PE=2 SV=2

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TETYSDDGGTYQGQWVGMRQGYGV RQSVPYGMAAVIRSPLRTSINSLRSEHTNGTALHPD  
ASPAVAGSPAVSRGGFVLVAHSDSEILKSKKKGLFRRSLLSGLKLRKSESKSSLASQRSK  
QSSFRSEAGMSTVSSTASDIHSTISLGEAEAEALAVIEDDIDATTTETIVGEWKNDKRSKF  
GVSQRSDGLKYEGEWASNRHGYGCMTFPDGTKEEGKYKQNILVGGKRKNLIPLRASKIR  
EKVDRAVEAAERAATIAKQKAEIAASRTSHSRAKAEALTAQAQAEERARIARITAKEFS  
PSFQHRENGLEYQRPKRQTSCDDIEVLSTGTPLQQESPELYRKGTTPSDLTPDDSPQLSF  
PTSPAATPPPAPAARNKVAHFSRQVSVDEERGGDIQMLLEGRAGDCARSSWGEEQAGGSR  
GVRSGALRGGLLVDDFRTRGSGRKQPGNPKPRERRTESPPVFTWTSHHRASNHSPGGSR  
LELQEEKLSNYRMEMKPLLRMETHPKRRYSKGGACRGLGDDHRPEDRGFGVQRLRSKAQ  
NKENFRPASSAEPVQKLASLRLGGAEPRLLRWDLTFSPQKSLPVALESDEENGDELKS  
STGSAPILVVMVILLNIGVAILFINFFI

>sp|Q9P206|K1522\_HUMAN Uncharacterized protein KIAA1522 OS=Homo sapiens GN=KIAA1522 PE=1 SV=2

MVVFVGRRLPALLGLFKKKGSAKAENDKHLVSGPGQGPGSAVDEHQDNVFFPSGRPPHLE  
ELHTQAQEGRLSLQHKEKQKLKGGWDHGDTSIQSSRTGPDEDNISFCSQTTSYVAESS  
TAEDALSIRSEMIQRKGSTFRPHDSFPKSGKSGRRRRRERRSTVLGLPQHVKELGLRNER  
EAPGTTPRAGARDVRIPTVDGRPRGTSGMGARVSLQALEAEAEAGAETEAMLRHIDRV  
YRDDTFVGRSTGTAPPLTRPMSLAVPGLTGAGPAEPLSPAMSI SPQATYLSKLIPHAV  
LPPTVDVVALGRCSLRTL SRCSLHSASPASVRS LGRFSSVSSPQPRSRHPSSSDTWSHS  
QSSDTIVSDGSTLSSKGGSEGQPESSTASNSVPPPPQGGSGRSPSGGSTAEASDTLSIR  
SSGQLSGRSVSLRKLKRPPPPRRTHSLHQRLAVPDGPLGLPPKPERKQQQLPRPPTT  
GGSEGAGAAPCPPNPANSWVGLSPGGSRPPRSPERTLSPSSGYSSQSGTPTLPPKGLA  
GPPASPGKAQPPKPERVTSLRSPGASVSSSLTSLCSSSSDPAPSDRSGPQILTPLGDRFV  
IPPHPKVPAPFPPPSKPRSPNPAAPALAAVVPGPVSTTDASPQSPPTQTTLTPLQE  
SPVISKQDQSPPPSPPSYHPPPPPTKKPEVVVEAPSASETAEELQDPNWPPPPPPAPEE  
QDLSMADFPPPEEAFFSVASPEPAGPSGPELVSSPAASSSSATALQIPPGSPDPPPPAP  
PAPAPASSAPGHVAKLPQKEPVGCSKGGGPPREDVGAPLVTPSLLQMVRLRSVGAPGGAP  
TPALGPSAPQKPLRRALSGRASVPAPSSGLHAAVRLKACSLAASEGLSSAQPNGPPEAE  
PRPPQSPASTASFIFSKGRKLQLERPVS PETQADLQRNLVAELRSISEQRPPQAPKKSP  
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EKMGLPGSDSQKELA

>sp|P08727|K1C19\_HUMAN Keratin, type I cytoskeletal 19 OS=Homo sapiens GN=KRT19 PE=1 SV=4  
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YGGGYGGVLTASDGLLAGNEKLTMQNLNDRLASYLDKVRALEAANGELEVKIRDWYQKQG  
PGPSRDYSHYYTTIQDLRDKILGATIENSRIVLQIDNARLAADDFRTKFETEALRMSVE  
ADINGLRRVLDELTLARTDLEMQIEGLKEELAYLKKNHEEEISTLRGQVGGQVSVEVDSA  
PGTDLAKILSDMRSQYEVMAEQNRKDAEAWFTSRTEELNREVAGHTEQLQMSRSEVTDLR  
RTLQGLEIELQSQLSMKAALEDTLAETEARFGAQLAHIQALISGIEAQLGDVRADSERQN  
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>sp|P35908|K22E\_HUMAN Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2  
PE=1 SV=2

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RSLVGLGGTKSISISVAGGGGGFGAAGFGGRGGGFGGSSFGGSGFSGGGFGGGFGG  
GRFGGFGGPGGVGLGGPGGFGPGGYPGGIHEVSVNQSLQLPLNVKVDPEIQNVKAQERE  
QIKTLNNKFASFIDKVRFLQQNQVLQTKWELLQOMNVGTRPINLEPIFQGYIDSLKRYL  
DGLTAERTSQNSELNNMQDLVEDYKKKYEDEINKRTAAENDFVTLKKDVDNAYMIKVELQ  
SKVDLLNQEIEFLKVLDAEISQIHQSVTDNVLSDNSRNLDLDSIIAEVKAQYEEIA  
QRSKEEAELYHSCYEELQVTVGRHGDSLKEIKIEISELNRVIQRLQGEIAHVKKQCKNV  
QDAIADAEQRGEHALKDARNKLNDEALQQAKEDLARLLRDYQELMNVLALDVEIATY  
RKLEGEECRMSGDLSSNVTVSSTISSNVASKAAGGSGGRGSSSGGGYSSGSSSYG  
SGGRQSGSRGGSGGSGSISGGYGSGGGSGGRYSGGGSKGGSISGGYGSGGGKHSSGG  
GSRGSSSGGGYGSGGGSSSVKGSSGEAFGSSVTFSFR

>sp|P54819|KAD2\_HUMAN Adenylate kinase 2, mitochondrial OS=Homo sapiens GN=AK2 PE=1 SV=2

MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSEL  
GKKLKATMDAGKLVSDVMVELIEKNLETPLCNGFLLDGFPRTVRQAEMDDLMEKRKE  
KLDVIEFSIPDSLLIRITGRILHPKSGRSYHEEFNPPKEPMKDDITGEPLIRRSDDNE  
KALKIRLQAYHTQTTPLEIYYRKRGIHSAIDASQTPDVVFASILAAFSKATCKDLVMFI

>sp|Q96M32|KAD7\_HUMAN Adenylate kinase 7 OS=Homo sapiens GN=AK7 PE=1 SV=3

MAEEEEETAALTEKVIRTQRFVINLLDSYSSGNIGKFLSNCVVGASLEEITEEEEEEDENK  
SAMLEASSTKVKEGTFQIVGTLSKPDSPRPDAVETYSAISREDLLMRLLCEDVIIYNIT  
ESSQQMEEAIWAVSALSEEVSHFEKRKLFILLSTVMTWARSKALDPEDSEVPFTEEDYRR  
RKSHPNFLDHINAEKMLKFGKKARKFAAYVVAAGLQYGAEGGMLHTFFKMAWLGEIPAL  
PVFGDGTNVIPTIHVLDLAGVIQNVIDHVPKPHYLVADESHTLEDIVKCISKNTGPGK  
IQKIPRENAYLTKDLTQDCLDHLNLVLRMEALFVKENFNIRWAAQTGFVENINTILKEYK  
QSRGLMPIKIKILGPPAVGKSSIAKELANYKLLHHIQLKDVISEAIAKLEAIVAPNDVGE  
GEEVEEEEEENVEDAQELLDGIKESMEQNAGQLDDQYIIRFMKEKLSMPCRNQGYIL  
DGFPKTYDQAKDLNFQDEEEEEDDVRGRMPFDKLI IPEFVCALDASDEFLKERVINLPE  
SIVAGTHYSQDRFLRALSNYRDINIDDETTFNYFDELEIHPHIDVGKLEDAQNRLAIKQ  
LIKEIGEPNRYGLTDEKAEERKAAEERLAREAAEAEREHQEAVEMAEKIARWEEWNK  
RLEEVKREERELLEASQIPLRNYLMTYVMPPTLIQGLNECCNVRPEDPVDFLAEYLFKNP  
EAQ

>sp|Q8N5Z5|KCD17\_HUMAN BTB/POZ domain-containing protein KCTD17 OS=Homo sapiens GN=KCTD17  
PE=1 SV=3

MQTPRPAMRMEAGEAAPPAGAGGRAAGGWGKWVRLNVGGTVFLTTRQTLCREQKSFLSRL

CQGEELQSDRDETAYLIDRDPTYFGPILNFLRHGKLVLDKDMAEEGVLEEAEFYNI  
GPIIRIKDRMEEKDYTVTVQVPPKHVYRVLQCQEEELTQMVSTMSDGWRFEQLVNIGSSYNYG  
SEDQAEFLCVVSKELHSTPNGLSSESSRKTKSTEEQLQEEQQQEEVEVEVEVEQVQVEAD  
AQEKAQSSQDPANLFSPLPPPLPAGGSRPHPLRPEAELAVRASPRPLARPQSCHPCC  
YKPEAPGCEAPDHLQGLGVPI

>sp|Q6PIL6|KCIP4\_HUMAN Kv channel-interacting protein 4 OS=Homo sapiens GN=KCINIP4 PE=1 SV=1

MNVRRVESISAQLEEASSTGGFLYAQNSTKRSIKERLMKLLPCSAKTSSPAIQNSVEDE  
LEMATVRHRPEALELLEAQSKFTKKELQILYRGFKNECPSGVVNEETFKEIYSQFFPQGD  
STTYAHFLNAFDTHNGAVSFEDFIKGLSILLRGTVQEKLNWAFNLYDINKDGYITKEE  
MLDIMKAIYDMMGKCTYPVLKEDAPRQHVETFFQKMDKNKDGVTIDEFIESCQKDENIM  
RSMQLFENVI

>sp|Q14500|KCJ12\_HUMAN ATP-sensitive inward rectifier potassium channel 12 OS=Homo sapiens GN=KCINJ12 PE=1 SV=2

MTAASRANPYSIVSSEEDGLHLVTMSGANGFGNGKVHTRRRRCRNRFVKNGQCNI EFANM  
DEKSQRYLADMFTTCVDIRWRYMLLIFSLAFLASWLLFGIIFWVIAVAHGDLEPAEGRGR  
TPCVMQVHGFMAAFLFSIETQTTIGYGLRCVTEECPVAVFMVVAQSIVGCIIDSFMIGAI  
MAKMARPKKRAQTLLFSHNAVVALRDGKLCMLWRVGNLRKSHIVEAHVRAQLIKPRVTEE  
GEYIPLDQIDIDVGFDKGLDRIFLVSPITILHEIDEASPLFGISRQDLETDDFEIVVILE  
GMVEATAMTTQARSSYLANEILWGHRFEPVLFEEKNQYKIDYSHFHKTYEVPSTPRCSAK  
DLVENKFLLPANSFCYENELAFLSRDEEDEADGDQDGRSRDGLSPQARHDFDRLQAGGG  
VLEQRPYRRESEI

>sp|Q12791|KCMA1\_HUMAN Calcium-activated potassium channel subunit alpha-1 OS=Homo sapiens GN=KCINMA1 PE=1 SV=2

MANGGGGGGGSSGGGGGGSSLRMSSNIHANHLSLDASSSSSSSSSSSSSSSSSSSSSS  
VHEPKMDALIIPVTEMEVPCDSRGQRMWWAFLASSMVTFFGGLFIILLWRTLKYLWTVCC  
HCGGKTKEAQKINNGSSQADGTLKPVDEKEEAAAEVGMWTSVKDWAGVMISAQTLTGRVL  
VVLVFALSIGALVIYFIDSSNPIESCQNFYKDFTLQIDMAFNVFLLYFGLRFIAANDKL  
WFWLEVNSVVDFFTVPVVFVSVYLNRSWLGLRFLRALRLIQFSEILQFLNILKTSNSIKL  
VNLLSIFISTWLTAAAGFIHLVENSGBPWFENFQNNQALTYWECVYLLMVTMSTVGYGDVYA  
KTTLGRLFMVFFILGGLAMFASYVPEIIEIIGNRKKYGGSYSAVSGRKHIVVCGHITLES  
VSNFLKDFLHKDRDDVNVEIVFLHNISPNELEALFKRHFTQVEFYQGSVLNPHDLARVK  
IESADACLILANKYCADPDAEDASNIMRVISIKNYHPKIRIITQMLQYHNKAHLLNIPSW  
NWKEGDDAICLAELKLGFI AQSCLAQGLSTMLANLFSMRSFIKIEEDTWQKYYLEGVSNE  
MYTEYLSSAFVGLSFPTVCELFCVKLLMIAIEYKSANRESRILINPGNHLKIQEGTLG  
FFIASDAKEVKRAFFYCKACHDDITDPKRIKKCGCKRPKMSIYKMRRAACCFDCGRSERD  
CSCMSGRVRGNVDTLERAFLSSVSVNDCSTSFRAFEDEQPSTLSPKKKQRNGGMRNSPN  
TSPKLMRHDPLLIPGNDQIDNMDSNVKKYDSTGMFHWCAPKEIEKVILTRSEAAMTVLSG  
HVVVCIFGDVSSALIGLRNLV MPLRASNFHYHELKHIVFVGSIEYLKREWETLHNFPKVS  
ILPGTPLSRADLRAVNINLCMCVILSANQNNIDDTSLQDKECILASLNIKSMQFDDSIG  
VLQANSQGFTPPGMDRSSPDNSPVHGMLRQPSITTGVNIPITELVNDTNVQFLDQDDDD  
DPDTELYLTQPFACGTAFVSVLDSLMSATYFNDNILTILRTLVTTGGATPELEALIAEEN  
ALRGGYSTPQTLANRDRCRVAQLALLDGPFA DLGDGGCYGDLFCALKKTYNMLCFGIYRL  
RDAHLSTPSQCTKRYVITNPPYEFELVPTDLIFCLMQFDHNAGQSRASLSHSSHSQSSS

KKSSSVHSIPSTANRQNRPKSRESRDKQKYVQEERL

>sp|P22001|KCNA3\_HUMAN Potassium voltage-gated channel subfamily A member 3 OS=Homo sapiens GN=KCNA3 PE=1 SV=3

MDERLSLLRSPPPPSARHRAHPPQRPASSGGAHTLVNHGYAEPAAAGRELPPDMTVVPGDH  
LLEPEVADGGGAPPQGGCGGGGCDRYEPLPPSLPAAGEQCCGERVVINISGLRFETQLK  
TLCQFPETLLGDPKRRMRYFDPLRNEYFFDRNRPSFDAILYYYQSGGRIRRPVNVPIIDIF  
SEEIRFYQLGEEAMEKFREDEGFLREEERPLPRRDFQRQVWLLFEYPESSGPARGIAIVS  
VLVILISIVIFCLETLPFEFRDEKDYPASTSQDSFEAAGNSTSGSRAGASSFSDPFFVET  
LCIIWFSFELLVRFFACPSKATFSRNIMNLIDIVAIIPYFITLGTLEAERQNGGQAMSL  
AILRVIRLVRVFRIFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAE  
ADDPSTSGFSSIPDAFWAVVTMTTVGYGDMHPVTIGGKIVGSLCAIAGVLTIALPVPVIV  
SNFNFYHRETEGEEQSQYMHVGCQHLSSSAEELRKARSNSTLSKSEYMVIEEGMNHS  
AFPQTPFKTGNSTATCTTNNNPNSCVNIKKIFTDV

>sp|Q96RP8|KCNA7\_HUMAN Potassium voltage-gated channel subfamily A member 7 OS=Homo sapiens GN=KCNA7 PE=2 SV=1

MEPRCPPPCGCCERLVNLVAGLRFETRARTLGRFPDILLGDPARRGRFYDDARREYFFDR  
HRPSFDAVLYYYQSGGRLRRPAHVPLDVFLLEEVAFYGLGAAALARLREDEGCPVPPERPL  
PRRAFARQLWLLFEFPESQAARVLAVVSVLVILVSIVVFCLETLPDFRDDRDTGLAAA  
AAAGPFPAPLNGSSQMPGNPPRLPFNDPFFVETLCICWFSFELLVRLVCPSKAIFFKN  
VMNLIDFVAILPYFVALGTELARQGVGQAMSLAILRVIRLVRVFRIFKLSRHSKGLQI  
LGQTLRASMRELGLLIFFLFIGVVLFSYFAEVDVDSHFTSIPESFWAVVTMTTVG  
YGDMAVTVGGKIVGSLCAIAGVLTISLPVPVIVSNFSYFYHRETEGEEAGMFHVDMQP  
CGPLEGKANGGLVDGEVPELPPPLWAPPGKHLVTEV

>sp|Q14721|KCNB1\_HUMAN Potassium voltage-gated channel subfamily B member 1 OS=Homo sapiens GN=KCNB1 PE=1 SV=2

MPAGMTKHGSRSTSLPPEPMEIVRSKACSRVRNLNVGGLAHEVLWRTLDRLPRTLGLK  
RDCNTHDSLLEVCDYSLDDNEYFFDRHPGAFTSILNFYRTGRLHMMEECALSFQELD  
YWGIDEIYLESCQARYHQKKEQMNEELKREAEATLREREGEEFDNTCCAERKKLWDLLE  
KPNSSVAAKILAIISIMFIVLSTIALSLNTPQLSLDEFQGSTDNPLAHVEAVCIAWF  
TMEYLLRFLSSPKKWKFFKGPLNAIDLLAILPYVVTIFLTESNKSVLQFQNVRRVVQIFR  
IMRILRILKLARHSTGLQSLGFTLRRSYNELGLLILFLAMGIMIFSSLVFFAEKDEDDTK  
FKSIPASFWWATITMTTVGYGDIYPKTLGKIVGGLCCIAGVLVIALPIPIIVNNFSEFY  
KEQKRQEKAIKRREALERAKRNGSIVSMNMKDAFARSIEMMDIVVEKNGENMGKKDKVQD  
NHLSPNKWKWTKRTLSETSSSKSFETKEQGSPEKARSSSPQHLNVQQLLEDMYNMAKTQ  
SQPILNTKESAAQSKPKEELEMESIPSPVAPLPTRTGVIDMRSMSSIDSFISCATDFPE  
ATRFHSPLTSLPSKTGGSTAPEVGWRGALGASGGRFVEANPSPDASQHSFFIESPKSS  
MKTNNPLKLRLKLVNFMGDPSPLLPVLMYHDPLRNRGSAVAVGLECATLLDKAVLS  
PESSITYTASAKTPRSPKHTAIAFNFEAGVHQYIDADTDEGQLLYSVDSPPKSLPG  
STSPKFSTGTRSEKNHFESSPLTSPKFLRQNCIYSTEALTGKGPSGQEKCKLENHISPD  
VRVLPGGGAHGSTRDQSI

>sp|Q96PR1|KCNC2\_HUMAN Potassium voltage-gated channel subfamily C member 2 OS=Homo sapiens GN=KCNC2 PE=1 SV=1

MGKIENNERVILNVGGTRHETYRSTLKTLPGLTRALLASSEPPGDCLTTAGDKLQSPPPP  
LSPPPRAPPLSPGPGGCFEGGAGNCSSRGGRASDHPPGGGREFFFDHRHPGVFAYVLNYYRT

GKLHCPADVCGPLFEEELAFWGI DETDVEPCCWMTYRQHRDAEEALDIFETPD LIGGDPG  
DDEDLAAKRLGIEDAAGLGGPDGKSGRWRRLQPRMWALFEDPYSSRAARFIAFASLFFIL  
VSITTFCLETHEAFNIVKNKTEPVI NGTSVVLQYEIETDPALTYVEGVCVWVWTFEFLVR  
IVFSPNKLEFIKNLLNIIDFVAILPFYLEVGLSGLSSKAAKDVLGFLRVVRVFRILRIFK  
LTRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERVGAQPN DPSASEHTQ  
FKNIPIGFWWAVVTMTTLGYGDMYPQTWSGMLVGALCALAGVLT IAMPVPVIVNNFGMY  
SLAMAKQKLPRKRKKHIPPAPQASSPTFCKTELNMACNSTQSDTCLGKDNRLLEHNRSVL  
SGDDSTGSEPPLSPPERLPIRRSSTRDKNRRGETCFLLTTGDYTCASDGGIRKGYEKSRS  
LNNIAGLAGNALRLSPVTSPYNSPCPLRRSRSPIPSIL

>sp|Q9NSA2|KCND1\_HUMAN Potassium voltage-gated channel subfamily D member 1 OS=Homo sapiens GN=KCND1 PE=1 SV=2

MAAGLATWLPFARAAAVGWLPLAQQLPPAPGVKASRGDEVLVVNVSGRRFETWKNTLDR  
YPTLLGSSEKEFFYDADSGEYFFDRDPDMFRHVLNFYRTGRLHCPRQECIQAFDEELAF  
YGLVPELVGDCCLEEYDRKKENAERLAEEDEAEQAGDGPALPAGSSLRQLWRAFENPH  
TSTAALVFYYVTGFFIAVSVIANVETIPCRGSARRSSREQPCGERFPQAFFCMDTACVL  
IFTGEYLLRLFAAPSRCRFLRSVMSLIDVVAILPYYIGLLVPKNDDVSGAFVTLRVFRVF  
RIFKFSRHSQGLRILGYTLKSCASELGFLFSLTMAIIIFATVMFYAEKGTNKTNFTSIP  
AAFWYITVTMTTLGYGDMVPSTIAGKIFGSICSLSGVLVIALPVPVIVSNFSRIYHQNR  
ADKRRQQKVRLARIRLAKSGTTNAFLQYKQNGGLEDSGSGEQALCVRNRSafeqqHHH  
LLHCLEKTTCHEFTDELTFSEALGAVSPGGRTSRSTS SVSSQVPGSLLSSCCPRRAKRR  
AIRLANSTASVSRGSMQELDMLAGLRRSHAPQSRSSLNAKPHDSL DLNCDSRDFVAAIIS  
IPTPPANTPDESQPSSPGGGGRAGSTLRNSSLGTPCLFPETVKISSL

>sp|Q9UK17|KCND3\_HUMAN Potassium voltage-gated channel subfamily D member 3 OS=Homo sapiens GN=KCND3 PE=1 SV=3

MAAGVAAWLPFARAAAIGWMPVANCPMLAPADKNKRQDELIVLNVSGRRFQTWRTTLER  
YPTLLGSTEKEFFFNEDTKEYFFDRDPEVFRCVLNFYRTGKLHYPRYECISAYDDELAF  
YGILPEIIGDCCYEEYKDRKRENAERLMDDNSENQESMPSLSFRQTMWRAFENPHTST  
LALVFYYVTGFFIAVSVITNVETVPCGTVPGSKELPCGERYSVAFFCLDTACVMIFTVE  
YLLRLFAAPSRRYRIFRSVMSIIDVVAIMPYIIGLVMTNNEVDVSGAFVTLRVFRVFRIFKF  
SRHSQGLRILGYTLKSCASELGFLFSLTMAIIIFATVMFYAEKGSSASKFTSIPASFWY  
TIVTMTTLGYGDMVPKTIAGKIFGSICSLSGVLVIALPVPVIVSNFSRIYHQNRADKRR  
AQKKARLARIRVAKTGSSNAYLHSKRNGLLNEALELTGTPEEEHMGKTTSLIESQHHL  
HCLEKTTGLSYLVDDPLLSVRTSTIKNHEFIDEQMFEQNCMESSMQNYPSTRSPSLSSHP  
GLTTCCSRRSKTTHLPNSNLPATRLRSMQELSTIHIQGSEQPSLTTSRSSLNLKADDG  
LRPNCKTSQITTAIISIPTPPALTPEGESRPPPPASGPNTNIPSIASNVVKVSAL

>sp|Q9Y6J6|KCNE2\_HUMAN Potassium voltage-gated channel subfamily E member 2 OS=Homo sapiens GN=KCNE2 PE=1 SV=1

MSTLSNFTQTLEDVFRIRIFITYMDNWRQNTTAEQEQALQAKVDAENFYVYILYLMVMIGMF  
SFIIVAILVSTVSKRREHSNDPYHQYIVEDWQEKYKSQILNLEESKATIHENIGAAGFK  
MSP

>sp|Q8TAE7|KCNG3\_HUMAN Potassium voltage-gated channel subfamily G member 3 OS=Homo sapiens GN=KCNG3 PE=1 SV=1

MTFGRSGAASVVLNVGGARYSLRELLKDFPLRRVSRLHGCRSERDVLEVCDYDRERNE  
YFFDRHSEAFGFILLYVRGHGKLRFAPRMCELSFYNEMIYWGLEG AHLEYCCQRRLLDDRM

SDTYTFYSADEPGVLGRDEARPGGAEEAPSRRLERMRTFEEPTSSLAAQILASVSVVF  
VIVSMVVLCASTLPDWRNAAADNRSLDDRSRYSGPGREPSGIIEAICIGWFTAECIVRF  
IVSKNKCEFVKRPLNIIDLLAITPYIISVLMTVFTGENSQLQRAGVTLRVLMMRIFWVI  
KLARHFIGLQTLGLTLKRCYREVMMLLVFICVAMAFSALSQLEHGLDLETSNKDFTSI  
PAACWWVIISMTTVGYGDMYPITVPGRILGGVCVVGIVLLALPITFIYHSFVQCYHELK  
FRSARYSRSLSTEFNL

>sp|Q9UQ05|KCNH4\_HUMAN Potassium voltage-gated channel subfamily H member 4 OS=Homo  
sapiens GN=KCNH4 PE=2 SV=1

MPVMKGLLAPQNTFLDTIATRFDGTHSNFLLANAQGRGFPIVYCSDGFCELTGYGRTEV  
MQKTCSCRFLYGPETSEPALQRLHKALEGHQEHRAEICFYRKDGSAFWCLLDMMPIKNEM  
GEVVLFLFSFKDITQSGSPGLGPQGGRGDSNHENSLGRRGATWKFRSARRRSRTVLHRLT  
GHFGRRQGQGMKANNNVFEPKPSVPEYKVASVGSRCLLLHYSVSKAIWDGLILLATFYV  
AVTPYPNVCFSGDDDTPTSRLTLVSDIAVEMLFILDIIILNFRTTYVSQSGQVISAPRSI  
GLHYLATWFFIDLIAALPFDLLYIFNITVTSVLHLLKTVRLRLRLQLKERYSQCSAV  
VLTLLMSVFALLAHWMACIWIYVIGRREMEANDPLLWDIGWLHELGRLEVYPVNGSVGGP  
SRRSAYIAALYFTLSSLTSVGFGNVCANTDAEKIFSICTMLIGALMHAVVFGNVTAIQR  
MYSRRSLYHSRMKDLKDFIRVHRLPRPLKQRMLEYFQTTWAVNSGIDANELLRDFPDEL  
ADIAMHLNREILQLPLFGAASRGCLRALSLHIKTSFCAPGEYLLRRGDALQAHYYVCSGS  
LEVLRDNMVLAILGKGLIGADIPEPGQEPGLGADPNFVLKTSADV KALTYCGLQLSSR  
GLAEVLRLYPEYGAAFRAGLPRDLTFNLRQGS DTSGLSRFSRSPRLSQPRSESLGSSSDK  
TLPSITEAESGAEPGGGPRRRPLLLPNLSPARPRGSLVSLGEELPPFSALVSSPSLSP  
SLSPALAGQGHSASPHGPPRCSAAWKPPQLLIPPLGTGPPDLSPRIVDGIEDSGSTAEA  
PSFRFSRRPELPRPRSQAPPTGTRPSPELASEAEVKEKVCRLNQEISRLNQEVSQLSRE  
LRHIMGLLQARLGPPGHPAGSAWTPDPPCPQLRPPCLSPCASRPPPSLQDITLAEVHCPA  
SVGTMETGTALLDLRPSILPPYPSEPDLGPSPVPEASPTPSLLRHSFQSRSDTFH

>sp|Q8NCM2|KCNH5\_HUMAN Potassium voltage-gated channel subfamily H member 5 OS=Homo  
sapiens GN=KCNH5 PE=1 SV=3

MPGGKRGVLAPQNTFLENIVRRSSESSFLLGNAQIVDWPVVYSNDGFCKLSGYHRADVMQ  
KSSTCSFMYGELTDKKTIEKVRQTFDNYESNCFEVLLYKKNRTPVWFYMQIAPIRNEHEK  
VVLFLCTFKDITLQKPIEDDSTKGWTKFARLTRALTNRSVLQQLTPMNKTEVVHKHSR  
LAEVLQLGSDILPQYKQEPKTPPHIILHYCAFKTTWDWVILITFYTAIMVPYNVSFKT  
KQNNIAWLVLDSVVDVIFLVDIVLNFHTTFVGPGGEVSDPKLIRMNYLKTWFVIDLLSC  
LPYDIIINAFENVDEGISSLFSSLKVVRLLRLGRVARKLDHYLEYGA AVLVLVCVFLVA  
HWLACIWYSIGDYEYIDEVTNTIQIDSWLYQLALSIGTPYRYNTSAGIWEGGPSKDSLIV  
SSLYFTMTSLTTIGFNIAPTDDVEKMFVAMMMVGSLLYATIFGNVTTIFQQMYANTNR  
YHEMLNNVRDFLKLYQVPKGLSERVMDYIVSTWSMSKIDTEKVLSCPKDMRADICVHL  
NRKVFNEHPAFRLASDGCLRALAVEFQTIHCAPGDLIYHAGESVDALCFVVSGLSLEVIQD  
DEVVAIILGKGDVFGDIFWKETTLAHACANVRALTYCDLHIKREALLKVLDFYTAFANSF  
SRNLTLTCNLKRRIIFRKISDVKKEEEEERLRQKNEVTLSIPVDHPVRKLFQKFKQKELR  
NQGSTQGDPERNQLQVESRSLQNGASITGTSVTVSQITPIQTSLAYVKTSSESLKQNNRD  
AMELKPNGGADQKCLKVNSPIRMKNGNGKGLRLKNNMGAHEEKEDWNNVTKAESMGLL  
SEDPKSSDSSENSVTKNPLRKTDCDSGITKSDLRLDKAGEARSPLHSPIQADAKHPFYP  
IPEQALQTTLQEVKHELKEDIQLLSCRMTALEKQVAEILKILSEKSVQASSPKSQMPLQ  
VPPQIPCQDIFSVSRPESPESDKDEIHF

>sp|Q96L42|KCNH8\_HUMAN Potassium voltage-gated channel subfamily H member 8 OS=Homo sapiens GN=KCNH8 PE=2 SV=2

MPVMKGLLAPQNTFLDTIATRFDGTHSNFILANAQVAKGFPITYCSDGFCELAGFARTEV  
MQKSCSCKFLFGVETNEQLMLQIEKSLEEKTEFKGEIMFYKNGSPFWCLLDIVPIKNEK  
GDVVLFLASFKDITDTKVKITPEDKKEDKVKGSRAGTHFDSARRRSRAVLYHISGHLQR  
REKNKLKINNNVFDKPAFPEYKVSDAKSKFILLHFSTFKAGWDWLILLATFYVAVTVP  
YNVCFIGNDDLSTTRSTTVSDIAVEILFIIDIILNFRTTYVSKSGQVIFEARSICIHVYT  
TWFIIDLIAALPFDLLYAFNVTTVSVLVHLLKTVRLLRLLRLLQKLD RYSQHSITIVLTLLM  
SMFALLAHWMACIWIYVIGKMEREDNSLLKWEVGLHELGKRLESPYYGNNTLGGPSIRSA  
YIAALYFTLSSLTSVGFGNVSANTDAEKIFSICTMLIGALMHALVFGNVTAI IQRMYSRW  
SLYHTRTKDLKDFIRVHLPQQLKQRMLEYFQTTWSVNNGIDSNELLKDFPDEL RSDITM  
HLNKEILQLSLFECASRGCLRSLSLHIKTSFCAPGEYLLRQG DALQAIYFVCSGSMEVLK  
DSMVLAILGKGD LIGANLSIKDQVIKTNADV KALTYCDLQCIILKGLFEVLDLYPEYAHK  
FVEDIQHDLTYNLRREGHESDVISRLSNKSMVSQSEPKGN GNINKRLPSIVEDEEEEEEGE  
EEEAVSLSPICTRGSSSRNKKVGSNKAYLGLSLKQLASGTVPFHSPIRVSRSNSPKTKQE  
IDPPNHNRKEKNLKLQLSTLNNAGPPDLSPRIVDGI EDGNSSEESQTFDFGSEIRSEP  
RISPP LGDPEIGA AVLF IKA EETKQKINKLNSEVTTLTQEVSQ LGKDMRNVIQLLENVLS  
PQQPSR FCSLHSTSVCP SRESLQTRTSWSAHQPCLHLQTGGAA YTQAQLCSSNITS DIWS  
VDPSSVGSSPQRTGAHEQNPADSELYHSPSLDYSPSHYQVVQEGHLQFLRCISPHSDSTL  
TPLQSISATLSSSVCSSETS LHLVLP SRSEEGSFSQGT VSSFSLENLP GSWNQEGMASA  
STKPLENLPLEVVTSTA EVKDNKAINV

>sp|Q7LBC6|KDM3B\_HUMAN Lysine-specific demethylase 3B OS=Homo sapiens GN=KDM3B PE=1 SV=2

MADAAASPVGKRLLLLFADTAASASASAPAAAAASGDPG PALRTRAWRAGTVRAMSGAVP  
QDLAIFVEFDGCNWKQHSWVKVHAEVIVLLLEGSLVWAPREDPVLLQGIRVSIAQWPAL  
TFTPLVDKLGSGVVPVEYLLDRELRF LSDANGLHLFQMGTDSQNQILLEHAALRETVNA  
LISDQKLQEIFSRGPYSVQGHRVKIYQPEGEEGWLYGVVSHQDSITRLMEVSVTESGEIK  
SVDPRLIHVMLMDNSAPQSEGGTLKAVKSSKGKKKRESIEGKDGRRRKSASDSGCDPASK  
KLKGD RGEVDSNGSDGGEASRG PWKGNASGEPGLDQRAKQPPSTFVPQINRNIRFATYT  
KENGRTL VVQDEPVG DTPASFTPYSTATGQTPLAPEVGGAENKEAGKTLEQVGGIVAS  
AAVVTASSTPNTVRISDTGLAAGTVPEKQKGSRSQASGENSRNSILASSGF GAPLPSSS  
QPLTFGSGRSQSGNVLATENKPLGFSFGCSSAQEAQKDTDL SKNLFFQCMSQTLPTS NYF  
TTVSESLADDSSSRDSFKQSLESLS SGLCKGRSVLGTDTKPGSKAGSSVDRKVP AESMPT  
LTPAFPRSLLNARTPENHENLFLQPPKLSREEPSNPFLAFVEKVEHSPFSSFASQASGSS  
SSATTVT SKVAPSWPESHSSADSASLAKKPLFITDSSKL VSGVLGSALTSGGPSLSAM  
GNRSSSPTSSLTQPIEMPTLSSSPTEERPTVGPQQDNPLLKTF SNVFGRHSGGFLSSP  
ADFSQENKAPFEAVKRFSLDERSLACRQDS DSSTNSDLSDLS DSEEQLQAKTGLKG IPEH  
LMGKLGPN GERSAELLLGKSKGKQAPKGRPRTAPLKV GQSVLKD VSKVKKLQSGEPFLQ  
DGSCIN VAPHLHKCRECLERYRKFEQE QDDSTVACRFFHFRR LIFTRKGVL RVEGFLS  
PQQSDPDAMNLWIPSSSLAEGIDLETSKYILANVG DQFCQLVMSEKEAMMMVEPHQKVAW  
KRAVRGVREMCDCVETTLFNIHWVCRKCGFVCLDCYRLRKS RPRSETEEMGD EEFVSWL  
KCAKGQ SHEPENLMPTQIIPGTALYNIGDMVHAARGKWGIKANCPCISRQNKSVLRPAVT  
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SNSELKAIRPPCPDTAPPSSALHWLADLATQKAKEETKEAGSLRSVLNKESHSPFGLDSF  
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TSSAGVKSASLPNFLDHI IASVVENKKTSDASKRACNL TDTQKEVKEMVMGLNVLDPHT  
SHSWLCDGRLLCLHDP SNKNNWKIFRECWKQGQPV LVSGVHKKLKSELWKPEAFSQEFGD  
QDVDLVNCRNCAI ISDVKVRDFWDGFEI ICKRLRSEDGQPMVLKLDWPPGEDFRDMMPT  
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LDVSDAVNMVYVGIP IGEGAHDEEVLT IDEGDADEVTKQRIHDGKEKPGALWHIYAAK  
DAEKIRELLRKVGEEQGQENPPDHDP IHDQSWYLDQTLRKRLYEEYGVQGWAIVQFLGDA  
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>sp|O94953|KDM4B\_HUMAN Lysine-specific demethylase 4B OS=Homo sapiens GN=KDM4B PE=1 SV=4

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HKMTLISPIILKKYIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY  
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SRASLKAKLLRRSHRKR SQPKPKPEDPKFPGE GTAGAALLEEAGGSVKEEAGPEVDPEE  
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SAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTC AHAAGVLM EPDDWPYVVS  
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LYPESITSRDCVQLGPPSEGELVELRWTDGNLYKAKFISSVTSHIYQVEFEDGSQ LTVKR  
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>sp|Q9H3R0|KDM4C\_HUMAN Lysine-specific demethylase 4C OS=Homo sapiens GN=KDM4C PE=1 SV=2

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PGEIPAVPSGERNSFKVPSIAE GENKTSKSWRHPLSRPPARSPMTLVKQQAPSDEELPEV  
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AVTSQTFYEVFMDDGSFSRDTFPEDIVSRDCLKLGPPAEGEVVQVKWPDGKLYGAKYFGS  
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>sp|Q9BY66|KDM5D\_HUMAN Lysine-specific demethylase 5D OS=Homo sapiens GN=KDM5D PE=1 SV=2

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EEGGYEAICKDRRWARVAQRLHYPPGKNIGSLLRSHYERIIYPYEMFQSGANHVCNTHP  
FDNEVKDKEYKPHSIPLRQSVQPSKFSYSRRARLQPDPEPTEEDIEKHPELKKLQIYG  
PGPKMMGLGLMAKDKDKTVHKKVTCPTTVTKDEQSGGGNVSSLLKQHLSEPCTKTMM  
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SCYTLLEVLCPCADAGSDSTKRSRWMEKALGLYQCDTELLGLSAQDLRDPGSVIVAFKEG  
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VSVPHLLTSPKPSLTSSPLAWWEWDTKFLCPLCMRSRRPRLETILALLVALQRLPVRLP  
EGEALQCLTERAIGWQDRARKALASEDVTALLRQLAELRQQLQAKPRPEEASVYTSATAC  
DPIREGSGNNISKVQGLLENGDSVTSPENMAPGKGSDELLSSLLPQLTGPVLELPEAIR  
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>sp|P57087|JAM2\_HUMAN Junctional adhesion molecule B OS=Homo sapiens GN=JAM2 PE=1 SV=1

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LGSQSTNSSYTMNTKTGTQLQFNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI  
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>sp|Q9UF2|JIP1\_HUMAN C-Jun-amino-terminal kinase-interacting protein 1 OS=Homo sapiens  
GN=MAPK8IP1 PE=1 SV=1

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SLGKKHSWQDRVSRRSSPLKTGEQTPPHEHICLSDELPPQSGPAPTTDRGTSTDSPCR  
TATQMAPPGGPPAAPPGGRGHSHRDRIHQADVRLATEEIIYLTVPVQRPDAAEPTSAFL  
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PPPRASLSSDTSALSYSVYTLVVDEHAQLELVSLRPCFGDYSDSDSATVYDNCASVS  
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SCIINGEEQEQTTHRAIFRFVPRHEDELELEVDDPLLVELQAEDYWYEAYNMRTGARGVFP  
AYYAIEVTKEPEHMAALAKNSDWVDQFRVKFLGSVQVPYHKGNDVLCAMQKIATTRRLT  
VHFNPSSCVLEISVRGVKIGVKADDSQEAAGNKCASHFFQLKNISFCGYHPKNNKYFGFI  
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>sp|AOAUZ9|KAL1L\_HUMAN KAT8 regulatory NSL complex subunit 1-like protein OS=Homo sapiens  
GN=KANSL1L PE=1 SV=2

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TQKHLQMLLAKHVVKHYGQMKLSMKHQLPKMKTFFHEPTTILGNSLPKCTEIKPEVNTLT  
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>sp|O60229|KALRN\_HUMAN Kalirin OS=Homo sapiens GN=KALRN PE=1 SV=2

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HRNNVSMPSVASHTRGPEQQVKAILSELLQRENVLHFWTLKKRRLDQCQQYVVFERSAK  
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>sp|Q7Z3B3|KANL1\_HUMAN KAT8 regulatory NSL complex subunit 1 OS=Homo sapiens GN=KANSL1  
PE=1 SV=2

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>sp|Q9P2N6|KANL3\_HUMAN KAT8 regulatory NSL complex subunit 3 OS=Homo sapiens GN=KANSL3  
PE=1 SV=2

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PPAP

>sp|Q6YP21|KAT3\_HUMAN Kynurenine--oxoglutarate transaminase 3 OS=Homo sapiens GN=KYAT3  
PE=1 SV=1

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>sp|094819|KBTBB\_HUMAN Kelch repeat and BTB domain-containing protein 11 OS=Homo sapiens  
GN=KBTBD11 PE=1 SV=1

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LRLPGGPTGLQPFRCAALDGAICYVSRAGTWRFQPAREGEAGGDAGQGGGFEALGAPLDV  
RGVLIPFALSLPEKPPRGEQGAP

>sp|Q13303|KCAB2\_HUMAN Voltage-gated potassium channel subunit beta-2 OS=Homo sapiens  
GN=KCNAB2 PE=1 SV=2

MYPESTTGSPARLSLRQTGSPGMIYSTRYGSPKRQLQFYRNLGKSGLRVSCGLGTWVTF  
GGQITDEMAEQLMTLAYDNGINLFDTAEVYAAGKAEVVLGNIKKKGWRRSSLVITTKIF  
WGGKAETERGLSRKHIIEGLKASLERLQLEYVDVVFANRPDPNTPMEETVRAMTHVINQG  
MAMYWGTSRWSSMEIMEAYSVARQFNLTPPICEQAEYHMFQREKVEVQLPELFHKIGVGA  
MTWSPLACGIVSGKYDSGIPPYSRASLKGQWLKDKILSEEGRRQAKLKELQAIAERLG  
CTLPQLAIAWCLRNIEGVSSVLLGASNADQLMENIGAIQVLPKLSSSIIEIDSILGNKPY  
SKKDYRS

>sp|Q14012|KCC1A\_HUMAN Calcium/calmodulin-dependent protein kinase type 1 OS=Homo sapiens  
GN=CAMK1 PE=1 SV=1

MLGAVEGPRWKQAEIRDIDYFRDVLGTGAFSEVILAEDKRTQKLVAIKCIAKEALEGKE  
GSMENEIAVLHKIKHPNIVALDDIYESGGHLYLIMQLVSGGELFDRIVEKGFYTERDASR  
LIFQVLDAVKYLHDLGIVHRDLKPENLLYSLDEDSKIMISDFGLSKMEDPGSVLSTACG  
TPGYVAPEVLAQKPYSKAVDCWSIGVIAIYILLCGYPPFYDENDAKLFEQILKAEYEFDSP  
YWDDISDSAKDFIRHLMKEDPEKRFTCEQALQHPWIAGDTALDKNIHQSVSEQIKKNFAK  
SKWKQAFNATAVVRHMRKLQLGTSQEGGQTASHGELLTPVAGGPAAGCCCRDCCVEPGT  
ELSPTLPHQL

>sp|Q693B1|KCD11\_HUMAN BTB/POZ domain-containing protein KCTD11 OS=Homo sapiens GN=KCTD11  
PE=1 SV=1

MLGAMFRAGTPMPPNLSQGGGHYFIDRDGKAFRHILNFLRLGRLDLPRGYGETALLRAE  
ADFYQIRPLLDALRELEASESGTPTAPTAALLHADVDVSPRLVHFSARRGPHHYELSSVQVD  
TFRANLCTDSECLGALRARFGVASGDRAEGSPHFHLEWAPRPVELPEVEYGRGLQLPLW  
TGGPGERREVVGTPSFLEEVLRLVALEHGFRLDSVFPDPEDLLNSRSLRFVRH

>sp|Q9BQ13|KCD14\_HUMAN BTB/POZ domain-containing protein KCTD14 OS=Homo sapiens GN=KCTD14  
PE=1 SV=2

MWQGCAVERPVGRMTSQTPLPQSPRRPTMSTVVVLNVGGEFHTTTLGTLRKFPKSKLA  
EMFSSLAKASTDAEGRFFIDRPSTYFRPILDYLRTGQVPTQHIPEVYREAQFYIEIKPLVK  
LLEDMPQIFGEQVSRKQFLQVPGYSENELMVRLARAEAITARKSSVLVCLVETEEQDA  
YYSEVLCFLQDKKMFKSVVKFGPWKAVLDNSDLMHCLEMDIKAQGYKVFSKFYLTYPYTKR  
NEFHFNISFTFTWW

>sp|Q6PI47|KCD18\_HUMAN BTB/POZ domain-containing protein KCTD18 OS=Homo sapiens GN=KCTD18  
PE=2 SV=2

MEGHKAEEEVLDVLRNLNVGGCIYTARRESLCRFKDSMLASMFSGRFPLKTDESGACVIDR  
DGRLFKYLLDYLHGEVQIPTDEQTRIALQEEADYFGIPYPYSLSDHLANEMETYSLSRNI  
ELKKALTDFCDSYGLVCNKPTVWVHLNLTSGASCESRIIGVYATKTDGTDATIEKQLGGR  
IHSKGIFKREAGNNVQYIWSYYSVAELKKMMDAFDAWEGKGVSYWRVPHELIECWTLEER  
PLLGSLRHMAPIRKRRLITFNEADESVNYKTGPKPVRFLGPSTSTQIKVKNSASVTVSPA

SAIQTSAGATANRFQSGSRRKAAQRSAPSRATALVGTGAPGHPQASPGAASAENGGTHLP  
PAKVLLSDKKPTPQRVIKLRTPLCATAPCLPSPPTATRQANSLKPLPGEAARALGVRTEN  
GKNKGN

>sp|Q4G0X4|KCD21\_HUMAN BTB/POZ domain-containing protein KCTD21 OS=Homo sapiens GN=KCTD21  
PE=1 SV=1

MSDPITLNVGGKLYTTSLATLTSFPDSMLGAMFSGKMPTKRDSQGNCFIDRDGKVFRYIL  
NFLRTSHLDLPEDFQEMGLLRREADFYQVQPLIEALQEKEVELSKAEKNAMLNITLNQRV  
QTVHFTVREAPQIYSLSSSSMEVFNANIFSTSCFLKLLGSKLFYCSNGNLSSITSHLQD  
PNHLTLDWVANVEGLPEEEYTKQNLKRLWVVPANKQINSFQVFVEEVKIALSDGFCIDS  
SHPHALDFMNNKIIRLIRYR

>sp|A0A087WTH5|KCE1B\_HUMAN Potassium voltage-gated channel subfamily E member 1B OS=Homo  
sapiens GN=KCNE1B PE=3 SV=2

MPRMILSNTTAVTPFLTKLWQETVQQGGNMSGLARRSPRSGDGKLEALYVLMVLGFFGFF  
TLGIMLSYIRSKLEHSNDPFNVYIESNAWQEKDAYVQARVLESYRSCYVVENHLAIEQ  
PNTHLPETKPSP

>sp|Q9Y6H6|KCNE3\_HUMAN Potassium voltage-gated channel subfamily E member 3 OS=Homo  
sapiens GN=KCNE3 PE=1 SV=1

METTINGTETWYESLHVLKALNATLHSNLLCRPGPGLGPDNQTEERRASLPGRDDNSYMY  
ILFVMFLFAVTVGSLILGYTRSRKVDKRSDPYHVYIKNRVSMI

>sp|Q9H3M0|KCNF1\_HUMAN Potassium voltage-gated channel subfamily F member 1 OS=Homo  
sapiens GN=KCNF1 PE=1 SV=1

MDGSGERSLPEPGSQSSAASDDIEIVNVGGVRQVLYGDLLSQYPETRLAELINCLAGGY  
DTIFSLCDDYDPGKREFYFDRPDFAKCVIEVYFGEVHMKKGICPICFKNEMDFWKVDL  
KFLDDCCKSHLSEKREELEEIARRVQLILDDLGVDAEGRWRRCKKCVWKFLEKPESSCP  
ARVAVLSFLLILVSSVVMCMGTIPELQVLDAEGNRVEHPTLENVETACIGWFTLEYLLR  
LFSSPNKLFALFSMNIVDLAILPFYVSLTLTHLGARMMELTNVQAVQALRIMRIARI  
FKLARHSSGLQTLTYALKRSFKELGLLLMYLAVGIFVFSALGYTMEQSHPETLFKSIPQS  
FWWAIITMTTVGYGDIYPKTTLGLNAAISFLCGVIAIALPIHPIINNFVRYYNKQRVLE  
TAAKHELELMELNSSSGGEGKTGGSRSDDLNLPPPEAGKEAPSCSSRLKLSHSDTFIPLL  
TEEKHHRTRLQSK

>sp|Q12809|KCNH2\_HUMAN Potassium voltage-gated channel subfamily H member 2 OS=Homo  
sapiens GN=KCNH2 PE=1 SV=1

MPVRRGHVAPQNTFLDTIIRKFEGQSRKFIIANARVENCAVIYCNDGFCELCGYSRAEVM  
QRPCTCDFLHGPRTRRAAAQIAQALLGAEEKVEIAFYRKDGSCFLCLVDVVPVKNEGD  
AVIMFILNFEVVMKDMVGSPAHDNHRGPPTSWLAPGRAKTFRLKLPALLALTARESSV  
RSGGAGGAGAPGAVVDVLTAAAPSSSESLALDEVTAMDNHVAGLPAEERRALVPGSP  
PRSAPGQLPSRAHSLNPDASGSSCSLARTRSRESCASVRRASSADDIEAMRAGVLP PPP  
RHASTGAMHPLRSGLLNSTSDSLVRYRTISKIPQITLNFVDLKGDPFLASPTSDREIIA  
PKIKERTHNVTQVLSLADVLPYKLQAPRIHRWTILHYSFPKAVWDWLILLVIY  
TAVFTPYSAAFLLKETEEGPPATECGYACQPLAVVDLIVDIMFIVDILINFRTTYVNANE  
EVVSHPGRIAVHYFKGWFLIDMVAaipfdllifgsgseeliglktarllrlvrvarKLD  
RYSEYGA AVLFLMCTFALIAHWLACIWIYAIGNMEQPHMSRIGWLHNLGDQIGKPYNSS  
GLGGPSIKDKYVTALYFTFSSLTsvgfgnvspntNSEKIFSICVMLIGSLMYASIFGNVS  
AIIQRLYSGTARYHTQMLRVREFIRFHQIPNPLRQRLEEYFQHAWSYTNGIDMNAV LKGF

PECLQADICLHLNRSLLQHCKPFRGATKGCLRALAMFKTTHAPPGDTLVHAGDLLTALY  
FISRGSIIEILRGDVVVAAILGKNDIFGEPLNLYARPGKSNGDVRALTYCDLHKIHRDDLLE  
VLDMPYEFSDHFWSSLEITFNLRDNTMIPGSPGSTELEGGFSRQRKRKLSFRRRTDKDTE  
QPGEVSALGPGRAGAGPSSRGRPGGPWGESPSSGPSSPESEDEGPGRSSSPLRLVPFSS  
PRPPGEPPGGEPLMEDCEKSSDTCNPLSGAFSGVSNIFSWGDSRGRQYQELPRCPAPTP  
SLLNIPLSSPGRRPRGDVESRLDALQRQLNRLETRLADMATVLQQLQRQMTLVPPAYSA  
VTTPGPGTSTSPLLPVSPPLTLTLDLSQVSQFMACEELPPGAPELPQEGPTRRLSLPG  
QLGALTSQPLHRHGSDPGS

>sp|Q9H252|KCNH6\_HUMAN Potassium voltage-gated channel subfamily H member 6 OS=Homo  
sapiens GN=KCNH6 PE=1 SV=1

MPVRRGHVAPQNTYLDTIIRKFEGQSRKFLIANAQMENCAIICYNDGFCELFGYSRVEVM  
QQPCTCDFLTGPNTPSSAVSRLAQALLGAEECKVDILYYRKDASSFRCLVDVVPVKNEDEG  
AVIMFILNFEDLAQLLAKCSSRSLSQRLLSQSFLGSESGHGRPGGPGTGRGKYRTISQ  
IPQFTLNFEFNLEKHRSSSTTEIEIIAPHKVVERTQNVTEKVTQVLSLGADVLPEYKLQ  
APRIHRWTILHYSPPKAVWDWLILLLVIIYTAFTPYSAFLLSDQDESRRGACSYTCSPL  
TVVDLIVDIMFVVDIVINFRTTYVNTNDEVVSHPRRIAVHYFKGWFLIDMVAaipfdlli  
FRTGSDETTTLIGLLKTARLLRLVRVARKLDYSEYGA AVLFLLMCTFALIAHWLACIY  
AIGNVERPYLEHKIGWLDLGLVQLGKRYNGSDPASGPSVQDKYVTALYFTFSSLTSVGFG  
NVSPNTNSEKVSICVMLIGSLMYASIFGNVSAIIQRLYSGTARYHTQMLRVKEFIRFHQ  
IPNPLRQRLEEYFQHAWSYTNGIDMNAVLKGFPECLQADICLHLHRALLQHCPAFSGAGK  
GCLRALAVKFKTTHAPPGDTLVHLGDVLSTLYFISRGSIIEILRDDVVVAAILGKNDIFGEP  
VSLHAQPGKSSADVRLTYCDLHKIQRADLLEVLDMPAFAESFWSKLEVTFNLRDAAGG  
LHSSPRQAPGSQDHQGFLLSDNQSGSPHELGPQFPSKGYSLGPGSQNSMGAGPCAPGHP  
DAAPPLSISDASGLWPELLQEMPPRHSPQSPQEDPDCWPLKLGSRLEQLQAQMNRLSRV  
SSDLSRILQLLQKMPQGHASYILEAPASNDLALVPIASETTSPGPRLPQGFLPPAQTPS  
YGDLDSCSPKHRNSSPRMPLAVATDKTLAPSSSEQEPEGLWPPLASPLHPLEVQGLICG  
PCFSSSLPEHLGSVPKQLDFQRHGSDPGFAGSWG

>sp|Q9NS40|KCNH7\_HUMAN Potassium voltage-gated channel subfamily H member 7 OS=Homo  
sapiens GN=KCNH7 PE=2 SV=2

MPVRRGHVAPQNTFLGTIIIRKFEGQNKKFIIANARVQNCAIICYNDGFCEMTGFSRDPDM  
QKPCTCDFLHGPETKRHDIAQIAQALLGSEERKVEVTTYHKNSTFICNTHIIPVKNQEG  
VAMMFIINFEEYVDNENAAATPERVNPILPIKTVNRKFFGFKFPLRVLYTRKQSLPQEDP  
DVVVIDSSKHSDSVAMKHFKSPTKESCPSEADDTKALIQPSKCSPLVNISGPLDHSSP  
KRQWDRLYPDMLQSSSQLSHSRSRESLCSIRASSVHDIEGFGVHPKNIFRDRHASEDNG  
RNVKGPFNHIKSSLLGSTSDSNLNKYSTINKIPQLTLNFSEVKTEKNSSPPSSDKTIIA  
PKVKDRTHNVTEKVTQVLSLGADVLPEYKLQTPRINKFTILHYSPPKAVWDWLILLLVIIY  
TAIFTPYSAFLLNDREEQKRRECGYSCSPLNVVDLIVDIMFIIDILINFRTTYVNQNEE  
VVSDPAKIAIHYFKGWFLIDMVAaipfdllifgsgsDETTTLIGLLKTARLLRLVRVARK  
LDYSEYGA AVLMLLMCTFALIAHWLACIYWAIGNVERPYLTDKIGWLDLGLGQIGKRYN  
DSDSSSGPSIKDKYVTALYFTFSSLTSVGFGNVSPNTNSEKIFSICVMLIGSLMYASIFG  
NVSAIIQRLYSGTARYHMQMLRVKEFIRFHQIPNPLRQRLEEYFQHAWTYTNGIDNMV  
LKGFECLQADICLHLNQTLNQCKAFRGASKGCLRALAMFKTTHAPPGDTLVHCGDVL  
TALYFLSRGSIEILKDDIVVAAILGKNDIFGEMVHLYAKPGKSNADVRLTYCDLHKIQRED  
LLEVLDMPYEFSDHFLTNLLETFNLRHESAKADLLRSQSMNDSEGNCKLRRRKLSFESE

GEKENSTNDPEDSADTIRHYQSSKRHFEEKSRSSSFISSIDDEQKPLFSGIVDSSPGIG  
KASGLDFEETVPTSGRMHIDKRSHSCKDITDMRSWERENAHPPEDSSPSALQRAAWGIS  
ETESDLTYGEVEQRLDLLQEQLNRLESQMTTDIQTILQLLQKQTTVVPPAYSMVTAGSEY  
QRPIIQLMRTSQPEASIKTDRSFSPSSQCPEFLDLEKSKLKSKESSLSSGVHLNTASEDNL  
TSLLKQSDLSLELHLRQRKTYVHPIRHPSLPDSSLSTVGIVGLHRHVSDPGLPGK

>sp|P51787|KCNQ1\_HUMAN Potassium voltage-gated channel subfamily KQT member 1 OS=Homo sapiens GN=KCNQ1 PE=1 SV=3

MAAASSPPRAERKRWGRLPGARRGSAGLAKKCPFSLELAEGGPAGGALYAPIAPGAPG  
PAPPASPAAPAAPPVASDLGPRPPVSLDPRVSIYSTRRPVLARTHVQGRVYNFLERPTGW  
KCFVYHFAVFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGC  
RSKYVGLWGRLLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATSAIRGIRFLQILRMLH  
VDRQGGTWRLGSSVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNESGRVEFGSYA  
DALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQR  
QKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYIRKAPRSHTLLSPSPKPKKSVVVK  
KKFKLDKDNVTPGEKMLTVPHITCDPPEERRLDHFSVDGYDSSVRKSPTLLEVSMPHFM  
RTNSFAEDLDLEGETLLTPITHISQLREHHRATIKVIRRMQYFVAKKKFQQARKPYDVRD  
VIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFSVSEKSKDRGSNTIGARLNRVEDKVT  
QLDQRLALITDMLHQLLSLHGGSTPGSGGPPREGGAHITQPCGSGGSVDPELFLPSNTLP  
TYEQLTVPRRGPDDEGS

>sp|Q6ZWB6|KCTD8\_HUMAN BTB/POZ domain-containing protein KCTD8 OS=Homo sapiens GN=KCTD8 PE=2 SV=1

MALKDTGSGGSTILPISEMVSSSSSPGASAAAAPGPCAPSPFPEVVELNVGGQVYVTKHS  
TLLSVPDSTLASMFPSSPRGGARRRGELPRDSRARFFIDRDGFLFRYVLDYLRDKQLAL  
PEHFPEKERLLREAEYFQLTDLVKLLSPKVTQNSLNDEGCQSDLEDNVSQGSSDALLR  
GAAAAPSPGGAHGGGGGGGAQDKRSGFLTLYGRGSYTTVRDNQADAKFRRVARIMVCGR  
IALAKEVFGDTLNESRDPDRQPEKYTSRFYLFKFTYLEQAFDRLSEAGFHMVACNSSGTAA  
FVNQYRDDKIWSSYTEYIFFRPPQKIVSPKQEHEDRKHKVTDKGSSEGTSCNELSTSSC  
DSHSEASTPQDNPSAQAQATAHQPNLTLDLDRPSKAPVQWIPPPDKRRNSELFQTLISKS  
RETNLKSKKVCSEKLSVEEEMKKCIQDFKKIHIPDYFPERKRQWQSELLQKYGL

>sp|Q6UW63|KDEL1\_HUMAN KDEL motif-containing protein 1 OS=Homo sapiens GN=KDEL1 PE=1 SV=1

MFGTLLLYCFFLATVPALAETGGERQLSPEKSEIWGPGLKADVVLPARFYIQAVDTSN  
KFTSSPGEKVFQKVSAPEEQFTRVGQVLDKDGSIIVRYRMYASYKNLKVEIKFQGQH  
VAKSPYILKGPVYHENCDCPLQDSAAWLREMNCPETIAQIQRDLAHFPAVDPEKIAVEIP  
KRFQGRQSLCHYTLKDNKVYIKTHGEHVGFRIFMADILLSLTRKVKMPDVELFVNLGDWP  
LEKKKSNSNIHPIFSWCGSTDSKDIVMPTYDLTDSVLETMGRVSLDMMSVQANTGPPWES  
KNSTAVWRGRDSRKELELVKLSRKHPOLIDAAFTNFFFFKHDENLYGPIVKHISFFDFF  
KHKYQINIDGTVAAYRLPYLLVGDSVVLKQDSIYYEHFYNELQPWKHYIPVKSNDLLE  
KLKWKADHDEEAKKIAKAGQEFARNNLMGDDIFCYFKLQFQYANLQVSEPQIREGMKRV  
EPQTEDDLFPCTCHRKTKDEL

>sp|O75164|KDM4A\_HUMAN Lysine-specific demethylase 4A OS=Homo sapiens GN=KDM4A PE=1 SV=2

MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKVVPKWKPRASYD  
DIDDLVIPAPIQQLVTGQSGFLTQYNIQKKAMTVREFRKIANSDKYCTPRYSEFEELERK  
YWKNLTFNPPIYGADVNGTLYEKHVDEWNIGRLRTILDLEKESGITIEGVNTPYLYFGM

WKTSAFWHTEDMDLYSINYLHFGEPKSWYSVPPEHGKRLERLAKGFFPGSAQSCEAFLRH  
KMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFNHGFNCAESTNFATRRWIEYG  
KQAVLCSCKRDMVKISMDVFRKFKPERYKLVKAGKDNVTDHTLPTPEAAEFLKESELP  
PRAGNEEECEEDMEGVEDGEEGLKTSKAKHRIGTKRHRVCLEIPQEVSQSELPKEDL  
SSEQYEMTECPAALAPVRPTHSSVRQVEDGLTFPDYSDSTEVKFEELKNVLEEDEEEEEE  
QAAAAALDLSVNPASVGGRLVFGSGKKKSSSSSLGSGSSRDSISSDSETSEPLSCRAQQGTG  
VLTVHSYAKGDGRVTVGEPCTRKKGSAARSFSERELAEVADEYMFSLKENKSKGRRQPL  
SKLPRHHPLVLQECVSDDETSEQLTPEEEAEETEAWAKPLSQLWQNRPPNFEEKEFNET  
MAQQAPHCAVCMIFQTYHQVEFGGFNQCGNASDLAPQKQRTKPLIPEMCFTSTGCSTDI  
NLSTPYLEEDGTSILVSCCKCSVRVHASCYGVPPAKASEDWMCSRCSANALEEDCCLCSL  
RGGALQRANDDRVHVSCAVALLEAFVNIERSPVVSKIPLPRFKLKCIFCKKRRKRT  
AGCCVQCSHGRCPTAFHVSCAAGVMMQPDDWPFVVFITCFRHKIPNLERAKGALQSIT  
AGQKVISKHKNGRFYQCEVVRLTTETFYEVNFDDGSFSDNLYPEDIVSQDCLQFGPPAEG  
EVVQVRWTDGQVYGAKFVASHPIQMYQVEFEDGSQLVVKRDDVYTLDEELPKRVKSRLSV  
ASDMRFNEIFTEKEVKQEKKRQRVINSRYREDYIEPALYRAIME

>sp|P41229|KDM5C\_HUMAN Lysine-specific demethylase 5C OS=Homo sapiens GN=KDM5C PE=1 SV=2

MEPGSDDFLPPPECPVFEPSSWAEFRDPLGYIAKIRPIAEKSGICKIRPPADWQPPFAVEV  
DNFRFTPRIQRLNELEAQTRVKLNLYDQIAKFWEIQGSSLKIPNVERRILDLYSLKIVV  
EEGGYEAICKDRRWARVAQRLNYPGKNIGSLLRSHYERIVYPYEMYQSGANLVQCNTRP  
FDNEEKDKEYKPHSIPLRQSVQPSKFNISYGRRAKRLQPDPEPTEEDIEKNPELKKLQIYG  
AGPKMMGLGLMAKDKTLRKDKEGPECPPTVVVKEELGGDVKVESTSPKTFLESKEELSH  
SPEPCTKMTMRLRRNHSNAQFIESYVCRMCSRGDEDDKLLLCDGCCDDNYHIFCLLPPLPE  
IPKGVWRCPKCVMAECKRPPEAFGEQATREYTLQSFGEADSFKADYFNMPVHMPVTEL  
VEKEFWRLVNSIEEDVTVEYGADIHSKEFGSGFPVSDSKRHLTPEEEYATSGWNLNVMP  
VLEQSVLCHINADISGMKVPWLVGVMVSAFCWHIEDHWSYSINYLHWGEPKTYGVPSL  
AAEHLEEVMMKLTPELFDSPDLLHQLVTLMPNTLMHSGVPVVRTNQCAGEFVITFPRA  
YHSGFNQGYNFAEAVNFCTADWLPAGRQCIHYRRLRRYCVFSHEELICKMAACEKLDL  
NLAAAVHKEMFIMVQEERLRKALLEKGITEAERAEFELLPDDERQCIKCKTTCFLSALA  
CYDCPDGLVCLSHINDLCKSSSRQYLRYRYTLDELPAMLHKLKVRAESFDTWANKVRVA  
LEVEDGRKRSLEELRALESEARERRFPNSELLQQLKNCLSEAEACVSRALGLVSGQEAGP  
HRVAGLQMTLTELRAFLDQMNLPAMHQIGDVKGVLQVEAYQAEAREALASLPSSPGL  
LQSLLERGRQLGVEVPEAQLQKQVEQARWLDEVKRTLAPSARRGTLAVMRGLLVAGASV  
APSPAVDKAQAEQLLTIERWEEKAHLCLEARQKHPPATLEAIIREAENIPVHLPNIQ  
ALKEALAKARAWIADVDEIQNGDHYPCLDDLEGLVAVGRDLPVGLEELRQLELQVLTAAHS  
WREKASKTFLKKNSCYTLLEVLPCADAGSDSTKRSRWMEKELGLYKSDTELLGLSAQDL  
RDPGSVIVAFKEGEQKEKEGILQLRRTNSAKPSPLASSSTASSTTICVCGQVLGAGAL  
QCDLCQDWFHGRCSVPRLLSSPRNPNTSSPLLAWWEWDTKFLCPLCMRSRRPRLETILA  
LLVALQRLPVRLPEGEALQCLTERAISWQGRARQALASEDVTALLGRLAELRQRLQAEPR  
PEEPPNYPAAPASDPLREGSGKMPKVQGLLENGDSVTSPEKVAPEEGSGKRDELLSSL  
LPQLTGPVLELPEATRAPLEELMMEGDLLEVTLDENHSIWQLLQAGQPPDLERIRTLEL  
EKAERHGSRRARGALERRRRRKVDRGGEGDDPAREELEPKRVRSSGPEAEVQEEEELEE  
ETGGEGPPAPIPTTGPSTQENQNGLEPAEGTTSGPSAPFSTLTPRLHLPQPPQPPQQL

>sp|O15054|KDM6B\_HUMAN Lysine-specific demethylase 6B OS=Homo sapiens GN=KDM6B PE=1 SV=4

MHRAVDPPGARAAREAFALGGLSCAGAWSSCPPHPPPSAWLPGGRCASISIGPPLPAPL



PPSHGSSSGHPSKPYYPAGAPTPRPLHGKLESLHGCVQALLREPAQPGLWEQLGQLYESE  
HDSEETRCYHSALRYGGSFAELGPRIGRLQQAQLWNFHTGSCQHRAKVLPPLEQVWNL  
HLEHKRNYGAKRGGPPVKRAAEPVVPVPAALSGPSGEEGLSPGGKRRRGCNSEQTGL  
PPGLPLPPPPLPPPPPPPPPPPLPLGLATSPFFQLTKPGLWSTLHGDAWGPERRKGSAPP  
ERQEQRHSLPHYPYPAPAYTAHPPGHRLVPAAPPGGPRPPGAESHGCLPATRPPGSDL  
RESRVQQRMDSSVSPAATTACVPYAPSRPPGLPGTTSSSSSSSSNTGLRGVEPNPGIP  
GADHYQTPALEVSHHGRLGPSAHSRKPFLGAPAAATPHLSLPPGPSSPPPPPCRLLRPP  
PPPAWLKGPACRAAREDEGEILEELFFGTGEGPPRPAPPPLPHREGFLGPPASRFSVGTQDS  
HTPPTPTPTTSSSNSNSGSHSSSPAGPVSFPPPPYLARSIDPLPRPPSPAQNPDPLV  
PLTLALPPAPPSSCHQNTSGSFRRPESPRPRVSFPKTPEVGPGLPPGPLSKAPQVPPGV  
GELPARGPRLFDPPPTLEDQFEPAEFKILPDGLANIMKMLDESIRKEEQQHEAGVA  
PQPPLKEPFASLQSFPTDTAPTTPAVAVTTTTTTTTTTATQEEKKPPPALPPPP  
LAKFPPPSQPQPPPPPPSPASLLKSLASVLEGQKYCYRGTAAGVSTRPGPLPTTQYSPG  
PPSGATALPPTSAAPSAQGSPPSASSSSQFSTSGGWARERRAGEEPVPGMTPTQPPP  
PLSLPPARSESEVLEEISRACETLVERVGRSATDPADPVDTAEPADSGTERLLPPAQA  
EAGGVAASVSGSCKRRQKEHQEHRRHRRACKDSVGRRPREGRAKAKAKVPKEKSRRVLGN  
LDLQSEETIQGREKSRPDLGGASKAKPPTAPAPPSAPAPSAQPTPPSASVPGKKAREEAPG  
PPGVSADMLKLRLSEGPPKELKIRLIKVESGDKETFIASEVEERRLRMADLTISHCAA  
DVVRASRNAKVKGKFRESYLSPAQSVKPKINTEEKLPREKLNPTPSIYLESKRDAFSPV  
LLQFCTDPRNPITVIRGLAGSLRLNLGLFSTKTLVEASGEHTVEVRTQVQQPSDENWDLT  
GTRQIWPCSSSRSHTTIAKYAQYQASSFQESLQEEKESEDEESEEDSTGTTPSSAPDP  
KNHHIIKFGTNIDLSDAKRWKPLQELLKLPAFMRVTSTGNMLSHVGHTILGMNTVQLYM  
KVPGRTPGHQENNNFCSVNINIGPGDCEWFAVHEHYWETISAFCDRHGVDYLTGSWWPI  
LDDLYASNIPVYRFVQRPGLVWINAGTVHWVQATGWCNNIAWNVGPLTAYQYQLALERY  
EWNEVKNVKSIVPMIHVSWNVARTVKISDPDLFKMIKFCLLQSMKHCQVQRESLVRAGKK  
IAYQGRVKDEPAYYCNECDVEVFNILFVTSNGSRNTYLHCEGCARRRSAGLQGVVLE  
QYRTEELAQAAYDAFTLAPASTSR

>sp|Q07666|KHDR1\_HUMAN KH domain-containing, RNA-binding, signal transduction-associated  
protein 1 OS=Homo sapiens GN=KHDRBS1 PE=1 SV=1

MQRDDPAARMSRSSGRSGMDPSGAHPSVRQTPSRQPPLPHRSRGGGGSRGGARASPA  
TQPPLPPSATGPDATVGGPAPTLLPPSATASVKMEPENKYLPELMAEKDSLDPSTH  
AMQLLTAEIEKIQKGDSKKDDEENYDLFSHKNMKLKERVLPVKQYPKFNFGKILGPQ  
GNTIKRLQEETGAKISVLGKGSMDKAKEEELRKGGDPKYAHLNMDLHVFIIEVFGPPCEA  
YALMAHAMEEVKFLVPDMMDDICQEQFLELSYLVPEPSRGRGVVVRGRGAAPPPPV  
PRGRGVGPPRGALVRGTPVRGAITRGATVTRGVPPPTVRGAPAPRARTAGIQRIPLPP  
PAPETEEYGYDDTYAEQSYEGYEGYYSQSQGDSEYYDYGHEVQDSYEAYGQDDWNGTR  
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>sp|Q8NI77|KI18A\_HUMAN Kinesin-like protein KIF18A OS=Homo sapiens GN=KIF18A PE=1 SV=2

MSVTEEDLCHHMKVVVRPENTKEKAAGFHKVVHVVDKHILVFDPKQEEVSFFHGKKT  
NQNVIKKQNKDLKFVDAVFDETSTQSEVFEHTTKPILRSFLNGYNCTVLAYGATGAGKT  
HTMLGSADEPGVMYLTMLHLYKCMDEIKEEKICSTAVSYLEVYNEQIRDLLVNSGPLAVR  
EDTQKGVVVHGLTLHQPKSSEIILHLLDNGNKNRTQHPTDMNATSSRSHAVFQIYLRQQD  
KTASINQNVRIAKMSLIDLAGSERASTSGAKGTRFVEGTNINRSLALGNVINALADSKR  
KNQHIPYRNSKLTRLKDSLGGNCQTIMIAAVSPSSVFYDDTYNTLKYANRAKDIKSSLK

SNVLNVNNHITQYVKICNEQKAEILLKEKLKAYEEQKFTNENDQAKLMISNPQEKEIE  
RFQEILNCLFQNREEIRQEYLKLEMLLKENELKSFYQQQCHKQIEMMCSEDKVEKATGKR  
DHRLAMLKTRRSYLEKRREEELKQFDENTNWLHRVEKEMGLLSQNGHIPKELKKDLHCHH  
LHLQNKDLKAQIRHMDLACLQEQQHRQTEAVLNALLPTLRKQYCTLKEAGLSNAAFESD  
FKEIEHLVERKKVVWADQTAEQPKQNDLPGISVLMTFPQLGPVQPIPCSSSSGGTNLVK  
IPTEKRTRRKLMPSPKLGQHTLKSPPSQSVQLNDSLSKELQPIVYTPEDCRKAFQNPSTV  
TLMKPSSFTTSFQAISSNINSNDCLKMLCEVAIPHNRKECGQEDLDSTFTICEDIKSSK  
CKLPEQESLPNDNKDILQRLDPSSFSTKHSMPVPSMVPSYAMTTAAKRKRKLTSSTSNS  
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>sp|Q2KJY2|KI26B\_HUMAN Kinesin-like protein KIF26B OS=Homo sapiens GN=KIF26B PE=2 SV=1

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PGSDRGVWCENCNARLVELKRQALRLLLPGPFPGKDPAFSAVIHDKLQVPNTIRKAWNDR  
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QPRDWAFFVPAPCATSNYTGFKHKGSKPSSLGVSNGAEKKSNGTHQAKVSLQMATSPSN  
GNILNSVAIQAHQYLDGTWLSRTNGVTLYPYQISQLMTESSREGLTEAVLNRYNADKPS  
ACSVPASQGSCVASETSTGTSAASFFARAAQKLNLSKKKKKHPSTSSAAEPPLFATSF  
SGILQTSPPPAPPCLLRAVNKVKDTPGLGKVKVMLRICSTLARDTSESSSFLKVDPRKKQ  
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CVFCFGHAKLGKSYTMIGKDDSMQNLGIIPCAISWLFKLINERKEKTGARFSVRVSAVEV  
WGKEENLRDLLSEVATGSLQDQSPGVYLCEDPICGTQLQNQSELRAPTAEKAAFFLDAA  
IASRRSHQQDCDEDDHRNSHVFTLHIYQYRMEKSGKGGMSGGRSRLHLIDLGSCVKALS  
KNREGGSGGLCLSLSALGNVILALVNGSKHIPYKESKLAMLLRESLGNMNCRTTMAIHISA  
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GDSRPAEAGEAAAGKSERDCLKCNTFAELQERLDCIDGSEEPSSFPEELPAQFGPEQAS  
RGPRLSQAAGASPLSESDKEDNGSEGQLTNREGPELPASKMQRSHSPVAAAAPAHSPSPA  
SPRSVPGSSSQHSASPLVQSPSLQSSRESLNSCGFVEGKPRPMGSPRLGASLSKTSEYK  
PPSSPSQRCKVYTQKGVLPSPAPLPPSSKDSGVASRESLLQPEVRTPPVGMSPQVLKKSM  
SAGSEGFPETPVDDEQQAATPSESKEILSTTMVTVQQPLELNGEDELVFTLVEELTISG  
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SLQNTAVVCREKPKASPDNLLILSEMGDSSFNKAAPIKGCKISTVSKAMVTISNTANLSS  
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WLKREEEVKKETAHPNEEGMMRCETATGPSNAETRAEQEQDGKPSPGDRLSSSSGEVSAS  
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TNGVGAASGTPPSKATLEGKVASPKHCVLARPKGTPPLPPVRKSSLDQKNRAS PQHSASG  
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SLERAESLSSVSSRLHAGKDGTPRAGRSLGRSAGTSPSSGASPKAGQSKI SAVSRLLL  
ASPRARGPSASTTKLSFSTKSLPQAVGQSSSPGKHTPWSTQSLSRNRSSGLASKLP  
LRAVSGRISELLQGGAGARGLQLRAGPEAEARGGALAEDEPAAAHLLPSPYSKITPPRRP  
HRCSSGHGSDNSSVLSGELPPAMGKTALFYHSGSSGYESVMRDSEATGSASSAQDSTSE  
NSSSVGGRCRSLKTPKKRSNPGSQRRRLIPALSLDTSSPVRKPPNSTGVRWVDGPLRSSP  
RGLGEPFEIKVYEIDDERLQRRRGGASKEAMCFNAKLKILEHRQQRIAEVRAKYEWLMK

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FDITSRRR

>sp|Q2TAC6|KIF19\_HUMAN Kinesin-like protein KIF19 OS=Homo sapiens GN=KIF19 PE=2 SV=2

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REKSYLFDVAFDFTATQEMVYQATTKSLIEGVISGYNATVFAYGPTGCGKTYTMLGTDQE  
PGIYVQTLNDLFRAIEETSNDMEYEVSMSYLEIYNEMIRDLLNPSLGYLELREDSKGV  
VAGITEVSTINAKEIMQLLMKGNRQRTQEPTAANQTSSRSHAVLQVTVRQSRVKNILQE  
VRQGRLFMIDLAGSERASQTQNRGQRMKEGAHINRSLALGNCINALSDKGSNKYIN  
YRDSKLTRLLKDSLGGNSRTVMIAHISPASSAFEESRNTLT  
YAGRAKNIKTRVKQNLNVSYHIAQYTSIIADLRGEI  
QRLKRKIDEQTGRGQARGRQDRGDIRHIAEVQLHSGQGEKAGMG  
QLREQLASAFQEQLMDVRRRLLELENNAMEVQIDTSRHLL  
TIAGWKHEKSRRALKWREEQRKEYAKDDSEKSDTGDDQPD  
ILEPPEVAAARESTAAALVDEQKQLRKQKLALQRCREL  
RARGRRLEETLPRRIGSEEQREVLSLLCRVHELEVENTEM  
QSHALLRDGALRHRHEAVRRL  
EQHRSLCDEIIQGGQRQIIDDYNLAVPQRLEELYEVYLR  
ELEEGSLEQATIMDQVASRALQDSSLPKITPAGTSLTPD  
SDLESVKTLSSDAQHLQNSALPPLSTESEGHVFKAGTGAW  
QAKSSSVPTPPPIQLGSLVTQEAPAQDSLGSWINSSPD  
SSENLSSEIPLSHKERKEILTGKCIWVKAARRRSRALG  
TEGRHLLAPATERSSSLHSLSEGDDARPPGLACKRPPSP  
TLQHAASEDNLSSTGEAPSRVAGHHGDGPRPWLRGQK  
KSLGKKREESLEAKRRKRRSRSFVETGQGLSHPKTHLL  
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>sp|O95239|KIF4A\_HUMAN Chromosome-associated kinesin KIF4A OS=Homo sapiens GN=KIF4A PE=1  
SV=3

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LLFKEIDKKSDFEFTLKVSYLEIYNEEILDLLCPSREKAQINIREDPKEGIKIVGLETEKT  
VLVALDTVSCLEQGNSRTVASTAMNSQSSRSHAFITISLEQRKKSDKNSSFRSKLHLVD  
LAGSERQKKTKAEGDRLKEGININRGLLCLGNVISALGDDKKGFPYRDSKLTRLLQDS  
LGGNSHTLMIACVSPADSNLEETLNTLRYADRARKIKNKPIVNIDPQTAE  
LNHLKQVQQLQVLLQAHGGTLPGSITVEPSENQLSLMEKNQSLVEENEKLSRGLSEAAGQTAQMLERI  
ILTEQANEKMNAKLEELRQHAACKLDLQKL  
VETLEDQELKENVEICNLQQLITQLSDET  
VACMAAIDTAVEQEAQVETSPETSRSSDAFTTQHALRQAQMSKELVELNKALALKEALA  
RKMTQNDSQLPQIQYQYQDNIKELEVINLQKEKEELVLELQTAKKDANQAKLSERRRK  
RLQELEGQIADLKKKLNEQSKLLKKESTERTVSKLNQEIRMMKNQRVQLMRQMKEDAEK  
FRQWKQKKDKEVIQLKERDRKRQYELLKLERNFQKQSNVLRRTKEAAAAANKRLKDALQK  
QREVADKRKETQSRGMEGTAARVKNWLGNEIEVMVSTEEAKRHLNDLLED  
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QLLDAESEDPRPKQRWENIATILEAKCALKYLIGELVSSKIQVSKLESSLKQSKTSCADMQK  
MLFEERNHFAEIETELQAE  
LVRMEQQHQEKVLYLLSQLQSQMAEKQLEESVSEKEQQL  
STLKCQDEEEKMREVCEQNQQLRENEIIKQKL  
TLLQVASRQKHLPKDTLLSPDSSF  
EYVPPKPKPSRVKEKFLEQSM  
DIEDLYKCEHSVNEHEDGDGDDDEGDDEEWKPTKLKVS  
RKNIQGCSCKGWCGNKQCGCRKQKSDCGVDCCCDPTKCRNRQ  
QKDSLGTVERTQDSEGSFKLEDPTEVTPGLSFFNPVCATPNSKIL  
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>sp|Q2M1P5|KIF7\_HUMAN Kinesin-like protein KIF7 OS=Homo sapiens GN=KIF7 PE=1 SV=2

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LAEDAGQEAVYQACVQPLLEAFFEGFNATVFAYGQTGSGKTYTMGEASVASLLEDEQGIV  
PRAMAEAFKLIDENDLLDCLVHVSYLEVYKEEFRDLLEVGTASRDIQLREDERGNVVLG  
VKEVDVEGLDEVLSLLEMGNAARHTGATHLNHLSSRSHTVFTVTLEQRGRAPSRLPRPAP  
GQLLVSKFHFVDLAGSERVLKTGSTGERLKESIQINSSLLALGNVISALGDPQRRGSHIP  
YRDSKITRILKDSLGGNAKTVMIACVSPSSSDFDETLNLTNYASRAQNI RN RATVNRPE  
AERPPEETASGARGPPRHRSETRIHRGRRAPGPATASAAAAMRLGAECARYRACTDAAY  
SLLRELQAEPGLPGAAARKVRDWLCAVEGERSALSSASGPDSGIESASVEDQAAQGAGGR  
KEDEGAQQLLTLQNQVARLEENRDFLAALDAMEQYKLQSDRLREQQEEMVELRLRLEL  
VRPGWGGPRLNLNLPFSFVPRPHTAPLGGAHVLMVPPACLPGDEVGSEQRGEQVTN  
GREAGAELLTEVNRLGSGSSAASEEEEEPPRRTLHLRRNRISNCSQRAGARPGSLPE  
RKGPCLCLEELDAAIPGSRVGGSKARVQARQVPPATASEWRLAQAQKIRELAINIRMK  
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RLREETEQRRLLEAEMSKRQHRVKELELKHEQQQKILKIKTEEIAAFQRKRSGSNGSVV  
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LRSSQALNEDIVRVSSRLEHLEKELSEKSGQLRQGSQSQQQIRGEIDSLRQEKDSLKQ  
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ALERQRLEMDRQLTLQQKEHEQNMQLLQQRDHLGEG LADSRRQYEARIQALEKELGRY  
MWINQELKQKLGGVNAVGHSRGGEKRLCSEGRQAPGNEDELHLAPELLWLSPLTEGAPR  
TREETRDLVHAPLPLTWKRSSLCGEEQGSPEELRQREAAEPLVGRVLPVGEAGLPWNFGP  
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>sp|Q9BW19|KIFC1\_HUMAN Kinesin-like protein KIFC1 OS=Homo sapiens GN=KIFC1 PE=1 SV=2

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KITTSHPRVPSLTTVPQTQGQTTAQKVSKKTGPRCSTAIATGLKNQKPVPAVPVQKSGTS  
GVPPMAGGKKPSKRPAWDLKGQLCDLNAELKRCRERTQTLDQENQQLQDQLRDAQQVKA  
LGTERTTLEGLAKVQAQAEQGGQELKNLRACVLELEERLSTQEGLVQELQKKQVELQEE  
RRGLMSQLEEKERRLQTSEALSSQAEVASLRQETVAQAALLTEREERLHGLEMERRRL  
HNQLQELKGNIRVFCRVRPVLPGIPTPPPGLLLFPSPGGPSDPPTRLSLSRSDERRGTL  
SGAPAPPTRHDFSFRVFPFGSGQDEVFEEIAMLVQSALDGYVPCIFAYGQTGSGKTFTM  
EGGPGGDPQLEGLIPRALRHLFSVAQELSGQGWTSFVASVVEIYNETVRDLLATGTRKG  
QGGECEIRRAGPGSEELVTNARYVPVSCEKEVDALLHLARQNRAVARTAQNERSSRSHS  
VFQLQISGEHSSRGLQCGAPLSLVDLAGSERLDPLGALGGERERLRETQAINSSLSTLG  
LVIMALSNKESHVPYRNSKLT YLLQNSLGGSAKMLMFVNISPLEENVSESLNSLRFASKV  
NQCVIQTAQANRK

>sp|Q969F8|KISSR\_HUMAN KiSS-1 receptor OS=Homo sapiens GN=KISS1R PE=1 SV=2

MHTVATSGPNASWGAPANASGCPGCGANASDGPVPSRAVDWLVLFFAALMLLGLVGN  
SLVIYVICRHKPMRTVTNFYIANLAATDVTFLCCVPFTALLYPLPGWVLGDFMCKFVNY  
IQQVSVQATCATLTAMSVDRWYVTVFPLRALHRRTPRLALAVSLSIWVGSAAVSAPVLAL  
HRLSPGPRAYCSEAFPSRALERAFALYNLLALYLLPLLATCACYAAMLRLGRVAVRPAP  
ADSALQGQVLAERAGAVRAKVSRLVAAVVLLFAACWGPIQLFLVLQALGPAGSWHPRSYA  
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AELLRLGSHPPARAQKPGSSGLAARGLCVLGEDNAPL

>sp|Q8N7A1|KLDC1\_HUMAN Kelch domain-containing protein 1 OS=Homo sapiens GN=KLDC1 PE=2 SV=2

MADSQLFCVAEERSGHCAVVDGNFLYVWGGYVSIEDNEVYLPNDEIWTYDIDSGLWRMHL  
MEGELPASMSGSCGACINGKLYIFGGYDDKGYSNRLYFVNLRTRETYIWEKITDFEGQP  
PTPRDKLSCWVYKDRLIYFGGYGCRHSELQDCFDVHDASWEEQIFGWVHNDVHIFDTKT  
QTFWFQPEIKGGVPPQPRAAHTCAVLGNKGYIFGGRVLQTRMNDLHYLNLDTWTSGRITI  
NGESPKHRSWHTLTPIADDKLFLCGGLSADNIPLSDGWIHNVTNCWKQLTHLPKTRPRL  
WHTACLGKENEIMVFGGSKDDLALDTGHCNDLLIFQTQPYSLLRSCLDCIGKNSIMLES  
QISLLPPKLLQQVLKKITFWAAANHREEQRVQKEETENKYQWISSN

>sp|Q9UIH9|KLF15\_HUMAN Krueppel-like factor 15 OS=Homo sapiens GN=KLF15 PE=1 SV=1

MVDHLLPVDENFSSPKCPVGYLGDRLVGRRAYHMLPSPVSEDDSDASSPCSCSSPDSQAL  
CSCYGGGLGTESQDSILDFLLSQATLGSGGGSGSSIGASSGPVWGPWRRAAAPVKGHEF  
CLPEFPLGDPDDVPRPFQPTLEEIEEFLEENMEPGVKEVPEGNSKDLDACSQLSAGPHKS  
HLHPGSSGRERCSPPPGGASAGGAQGGGGPTPDGPIPVLLQIQPVVKQESGTGPASPG  
QAPENVKVAQLLVNIQGQTFALVPQVVPSSNLNLPKSFVRIAPVPIAAKPVGSGPLGPGP  
AGLLMGQKFPKNPAAELIKMHKCTFPGCSKMYTKSSHLKAHLRRHTGEKPFACWTWPGCGW  
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>sp|Q43474|KLF4\_HUMAN Krueppel-like factor 4 OS=Homo sapiens GN=KLF4 PE=1 SV=3

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RPYDLAAATVATDLES GGAGAACGGSNLAPLPRRETEEFNDLLDLDFILSNSTHPPESV  
AATVSSASASSSSSPSSGPASPTCSFTYPIRAGNDPGVAPGGTGGGLLYGRESAPP  
PTAPFNLADINDVSPSGGFVAELLRPELDPVYIPPPQPPGGGLMGKFLKASLSAPGS  
EYGPSVSVSKGSPDGSHPVVAPYNGGPPRTCPKIKQEAVSSCTHLGAGPPLSNGHRP  
AAHDFPLGRQLPSRTPTLGLLEEVLSRDCHPALPLPPGFHHPGPNYPSFLPDQMPPQV  
PPLHYQGQSRGFVARAGEPCVCWPHFGTHGMMMLTPSSPLELMPPGSCMPEEPKPKRGRR  
SWPRKRTATHTCDYAGCGKTYTKSSHLKAHLRTHTEKPYHCDWDGCGWKFARSDDELTRH  
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>sp|Q9P266|JCAD\_HUMAN Junctional protein associated with coronary artery disease OS=Homo sapiens GN=KIAA1462 PE=1 SV=3

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QEARSQKPREHENLEARGMAQAHSPLVHVREGPWEVGGRESEHVMKKPVWEEELRMSPAK  
WQNVSLSWNQPRKLGRQMSDGDGERLFQDLYPFIQGEHVLNSQNKGKSRLPRVLPES  
LSCTEIPILNERHSPKMPYPPTCAPNLDSTRNSEKSGCSAPFPRPKFGRPLKPPSYSS  
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TVPINVCGGHSQQQSPTKAGASGQPPSGPPGTGNEYGVSPRLPQGLPAHPRPVTAYDGF  
VQYIPFDDPRLRHFKLAQPQGFCEDIKLDDKSYNSSPVTAQEPAHGGMQPDGAIWNPQSL  
IPPSGDERGLVLADSSPRWLWGQPPGDGENSGLPNQRDRCVARGQWPDVRGSQHGHTGRQ  
VSSPYSQGESTCETQTKLKKFQTGTRTKSSKKKMNETIFCLVSI PVKSESHLPDRMDN  
NDLKPSADQKNGSDKSPALQEQSLLSMSSTDLELQALTGSMGGRTEFQKQDLGEPEEDRQ  
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KCSDPAASEAQTHTAFTGDHKKRPSARNLKGHRSLSPSSNSAFSRTSLSVDQAPTPKAG  
RSQPCVDVHGLGAHPGPKREVVKGEPTGPCNSKQLFGQFLLKPVSRPWLISQLESFNK  
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SPVCRSGRGESKSESWEELQPGHPRAWPPSPGRFRVEEGGAPFCSADGSTSAEKRHLE  
VSNMDELAGSPFPVTRMSSRSSDAKPLPASYPREPQESPKITSAFSSVKPSEAVPR  
KFDSGGERGAGLPLSLSNKNGLSAPDLRSVGLTPGQEQGASELEGLGEASTIEIPPGE  
SLQARAARILGIEVAVESLLPGIRRAGNQPAEPDASACTPESPQEELLSRPAPADVPRV  
STDAFYGRRKCGWTKSPLFVGDRDSARRAPQAFEHSDVDGVVTSTDPVPEPEPSPLESKF  
FEQKDVKTPPFRSTLFHFVERTPSVAGSEKRLRSPSKVIESLQEKLASPPRRADPDRLM  
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>sp|Q9NZY2|K0125\_HUMAN Putative uncharacterized protein KIAA0125 OS=Homo sapiens  
GN=KIAA0125 PE=5 SV=2

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>sp|094854|K0754\_HUMAN Uncharacterized protein KIAA0754 OS=Homo sapiens GN=KIAA0754 PE=2  
SV=4

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DCLA AVLRTFGHLSLGGICCPDDPQPAKDQLATVPKDIPLDCDCVLTGEDILGEVANRTA  
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LLTDEIHLESGNVTVNQENNSLTSMGNVVTCELSVEKVCDEDGEAKELDYQATLLEDQAP  
AHFHRNFPEQVFQDLQRKSPSEIILSLHLLVEELRLNPDGVETVNDTKPELNVASSEGE  
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AVPTPEEPTSPAAAVPTPEEPASPAAAVPTPEEPASPAAAVPTPEEPAPFAPAVPTPEES  
ASA AVAVPTPEESASPAAAVPTPAESASFAAVVATLEEPTSPAASVPTPAAMVATLEEFT  
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PEEPASPAAAVSNLEEPASPAAAVPTPEVAAIPAASVPTPEVPAIPAAVPPMEEVSPIG  
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>sp|Q8NCT3|K0895\_HUMAN Uncharacterized protein KIAA0895 OS=Homo sapiens GN=KIAA0895 PE=2  
SV=4

MAGCTRKLTHLRKRIHRPRRRTRRWKRWFKFRKRKGEKRPRPNHKAVARRAKLKFTSE  
KLHWPEQELAKKSILNAEDSLIIDNKRSISHLSSGVLKDIFTTGTSSYNVLLQSKEEKY  
HSQKQSSSTYSKRCKRPSKSPNTRS KDP RRMKALVPVTSSGTWYCLERRPAVFTSSVS  
SPVKFTHDISVTNGIVLPPKPKSKVKWCHFSTLPKPKPQLSRSEKGGDFSGKKFCILT  
AIKPTNLEKEKLRFFKSDYTYPNQFEYANPALPSVLAKHSHASDRFLKQIVVHLTEDLLS

RASMTVVNGCPTLTINVSTAREHWLEGMLRHEIGTHYFRGINNLQQPWSWTGRKKHELK  
PNNPTEEGLASIHSVLFRKDPFLWRAALLYTVYQASQMSFCELFKDIGRFVKDPNTRWD  
YCVRAKRGWTDTSQPGCFSKDQVYLDGILQILRYRDTIDFHLLTALGKVSyedVDRLKGL  
AVTENMRVPHFLQDHGRYMEHLEKIMEVNELTDRELKDLI

>sp|Q9UPP5|K1107\_HUMAN Uncharacterized protein KIAA1107 OS=Homo sapiens GN=KIAA1107 PE=1  
SV=2

MESDRLIISLPRVKWTEAALTMSQLQEKCIAFIVDNFSKIIQSENFALLLSQAMSSTA  
DLDDTILKAIEENITTENSCSLMALDTLLNSDSTKEMGFTCKIQALRDKLWIFLVQSFY  
AVRHTESWKLMSTDDQKIQAAAFDKGDDRRLGKKPIFSSSQQRKQVSDSGDIKIKSWRG  
NNKKECWSYLSTNKKMSDGLGASGHSSSTNRNSINKTLKQDDVKEKDGTKIASKITKEL  
KTGGKNVSGPKPTVTKSKTENGDKARLENMSPRQVVERSATAAAAATGQKNLLNGKGVRN  
QEGQISGARPKVL TGNLNVQAKAKPLKKATGKDSPCLSIAGPSSRSTDSSMEFSISTECL  
DEPKENGSTEEEEKPSGHKLSFCDSPPGMMKNSVDSVKNSTVAIKSRPVSRVTNGTSNKKS  
IHEQDTNVNNSVLKVKSGKGCSEVPVQAAILKKRGT SNGCTAAQQRKTSTPSNLTKTQGSQ  
GESPNSVKSSVSSRQSDENVAKL DHNTTTEKQAPKRKMVKQVHTALPKVNAKIVAMPKNL  
NQSKKGETLNNKDSKQKMPPGQVISKTQPSSQRPLKHETSTVQKSMFHDVRDNNNKDSVS  
EQKPHKPLINLASEISDAEALQSSCRPDQPPLNDQEKEKLALQCQNI SKLDKSLKHELE  
SKQICLDKSETKFPNHKETDDCAANICCHSVGSDNVNSKFYSTTALKYMVSNPNENSLN  
SNPVCDL DSTSAGQIHLISDRENQVGRKDTNKQSSIKCVEDVSLCNPERTNGTLNSAQED  
KKSKVPVEGLTIPSKLSDESAMDEDKHATADSDVSSKCFSGQLSEKNSPKNMETSESPES  
HETPETPFVGHWNLTSTVLHQRESPESTGSATTSSDDIKPRSEDYDAGGSQDDDGSNDR  
GISKCGTMLCHDFLGRSSSDTSTPEELKIYDSNLRIEVKMKKQSNNDLFQVNSTSDDEIP  
RKRPEIWSRSAIVHSRERENIPRGSVQFAQEIDQVSSADETERSEAENVAENFISN  
PAPQQFQGIINLAFEDATENECEFSANKKFKRSVLLSVDECEELGSDEGEVHTPFQASV  
DSFSPSDVFDGISHEHHGRTCYSRFSRESDNILECKQNKGNVCKNESTVLDLSSIDSS  
RKNKQSVSATEKNTIDVLSRSRQLLREDKKVNNGSNVENDIQQRSKFLDSVKSQERP  
CHLDLHQREPNSDIPKNSSTKSLDSFRSQVLPQEGPVKESHSTTEKANIALSAGDIDDC  
DTLAQTRMYDHRPSKTLSPYEMDVIEAFEQKVESETHVTDMDFEDDQHFAKQDWTLKQ  
LLSEQDSNLDVTNSVPEDLSLAQYLINQTLLLARDSSKPGGITHIDLNRWSELTSPLDS  
SASITMASFSSSED CSPQGEWTILELETQH

>sp|Q99456|K1C12\_HUMAN Keratin, type I cytoskeletal 12 OS=Homo sapiens GN=KRT12 PE=1 SV=1

MDLSNNTMSLSVRTPGLSRRLSSQSVIGRPRGMSASSVSGYGGSAFGFGASC GGGSAA  
SMFGSSSGFGGSGSSMAGGLGAGYGRALGGGSFGGLGMFGGSPGGGSLGILSGNDGGL  
LSGSEKETMQNLNDRLASYLDKVRALEEANTELENKIREWYETRGTGTADASQSDYSKYY  
PLIEDLRNKIISASIGNAQLLLQIDNARLAAEDFRMKYENELALRQGV EADINGLRRVLD  
ELTLTRTDLEMQIESLNEELAYMKKNHEDELQSFRVGGPGEVSVEMDAAPGVDLTRLLND  
MRAQYETIAEQNRKDAAEFIEKSGELRKEISTNTEQLQSSKSEVTLRRAFQNL EIELQ  
SQLAMKKSLEDSLAEAGDYCAQLSQVQQLISNLEAQLLQVRADAERQNV DHQRLLNVKA  
RLELEIETYRRLLDGEAQGDGLEESLFVTD SKSQAQSTDSKDPKTRKIKTVVQEMVNG  
EVVSSQVQEIEELM

>sp|P05783|K1C18\_HUMAN Keratin, type I cytoskeletal 18 OS=Homo sapiens GN=KRT18 PE=1 SV=2

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GGLATGIAGGLAGMGGIQNEKETMQSLNDRLASYLDRVRSLETENRRLESKIREHLEKKG  
PQVRDWSHYFKIIEDLRAQIFANTVDNARIVLQIDNARLAADDFRVKYETELAMRQSVEN

DIHGLRKVIDDTNITRLQLETEIEALKEELLFMKNHEEEVKGLQAQIASSGLTVEVDAP  
KSQDLAKIMADIRAQYDELARKNREELDKYWSQQIEESTTVVTTQSAEVGAAETTLTEL  
RTVQSLEIDLDSMRNLKASLENSLREVEARYALQMEQLNGILLHLESELAQTRAEGQRQA  
QEYEALLNIKVKLEAEIATYRRILLEDGEDFNLGDALDSSNSMQTIQKTTTRRIVDGKVVS  
ETNDTKVLRH

>sp|P35900|K1C20\_HUMAN Keratin, type I cytoskeletal 20 OS=Homo sapiens GN=KRT20 PE=1 SV=1  
MDFSRRSFHRSLSLQAPVSVTGMQLGTTSPVYGGAGGRGIRISNSRHTVNYGSDLT  
GGGDLFVGNEKMAMQNLNDRLASYLEKVRTLEQSNKLEVQIKQWYETNAPRAGRDYSAY  
YRQIEELRSQIKDAQLNARCVLQIDNAKLAEDFRLKYETERGIRLTVEADLQGLNKVF  
DDLTLHKTDLQIEELNKDLALLKKEHQEEVDGLHKHLGNTVNVEVDAAPGLNLGVIMN  
EMRKQYEVMAQKNLQEAKEQFERQTAVLQQQVTVNTEELKGTEVQLTELRRTSQSLEIEL  
QSHLSMKESLEHTLEETKARYSSQLANLQSLSSLEAQLMQIRSNMERQNNYHILLDIK  
TRLEQEIATYRRLLEGEDVKTTEYQLSTLEERDIKTRKIKTVVQEVVDGKVVSSEVKEV  
EENI

>sp|Q7Z3Y8|K1C27\_HUMAN Keratin, type I cytoskeletal 27 OS=Homo sapiens GN=KRT27 PE=1 SV=2  
MSVRFSSSTRRLGSCGGTGSVRLSSGGAGFGAGNTCGVPGIGSGFSCAFGGSSSAGGYGG  
GLGGGSASCAFTGNEHGLSGNEKVTMQNLNDRLASYLENVRALEENADLEQKIKGWY  
EKFGPGSCRGLDHDSRYFPIIDELKNQIIISATTSNAHVVLQNDNARLTADDFRLKFENE  
LALHQSVEADINGLRRVLDLTLCRTDLQIQLTLSEELAYLKKNHEEEMKALQCAAGGN  
VNVEMNAAPGVDLTVLLNNMRAEYEALEQNRRDAEAWFNEKSASLQQQISDDAGATTSA  
RNELIEMKRTLQTLIELQSLATKHSLECSLTETESNYCAQLAQIQAQIGALEEQLHQV  
RTETEGQKLEYEQLLDIKVHLEKEIETYCLLDGEDGSCSKSKGYGGPGNQTKDSSKTTI  
VKTVEEIDPRGKVLSSRVHTVEEKSTKVNNKNEQRVSS

>sp|Q6A162|K1C40\_HUMAN Keratin, type I cytoskeletal 40 OS=Homo sapiens GN=KRT40 PE=1 SV=2  
MTSDCSSTHCSPECSTASGCAPASSCSVETACLPGTCASTRCQTPSFLSRSGLTGCLL  
PCYFTGSCNSPCLVGNCACWCEGVTFSNEKETMQFLNDRLASYLEKVRSLKETNAELESR  
IQEQCEQDIPMVCPDYQRYFNTIEDLQKILCTKAENSRLAVQLDNCKLATDDFKSKYES  
ELSLRQLLEADISSLHGILEELTLCKSDLEAHVESLKEDLLCLKKNHEEEVNLLREQLGD  
RLSVELDTAPTDLNRLVDEMRCQCETVLANNRREAEEWLAVQTEELNQQQLSSAEQLQG  
CQMEILELKRTASALEIELQAQQLTESLECTVAETEAQYSSQLAQIQCLIDNLENQLAE  
IRCDLERQNQEYQVLLDVKARLEGEINTYWGLLDSERLSCSPCSTTCTSSNTCEPCSA  
YVICTVENCL

>sp|Q15323|K1H1\_HUMAN Keratin, type I cuticular Ha1 OS=Homo sapiens GN=KRT31 PE=1 SV=3  
MPYNFCLPSLSCRTSCSSRPCVPPSCHSCTLPGACNIPANVSNWNFCGSGFNGSEKETM  
QFLNDRLASYLEKVRQLERDNAELENLIRERSQQQEPLLCPSYQSYFKTIEELQQKILCT  
KSENARLVVQIDNAKLAADDFTKYQTELSLRQLVESDINGLRRILDELTLCKSDLEAQV  
ESLKEELLCLKSNHEQEVNTLRCLQGLDRLNVEVDAAPTVDLNRVLNETRSQYEALVETNR  
REVEQWFTTQTEELNKQVVSSEQLQSYQAEIIELRRTVNALEIELQAQHNLRDSLENTL  
TESEARYSSQLSQVQSLITNVESQLAEIRSDLERQNQEYQVLLDVRARLECEINTYRSL  
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>sp|Q0VF49|K2012\_HUMAN Uncharacterized protein KIAA2012 OS=Homo sapiens GN=KIAA2012 PE=2  
SV=2  
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PKTFSTRKGALILYSEGFAISAWTPKERRKGPYCPRGPRKLDLELHTLQDLKEAILAYG



RQQGEQDRAWQPYLHFRSQLESQAQRQIQPGHSAKRYLRGLLRTWPPDAMYRLWCAGYIK  
DSVLLQDSQLNVPKKLRPQQDLSGVPPKYHLLPVFPSFWIQQGKSFEQRQQGLDEGEAGA  
AGHVDQGPLAKNHGSGQTRLPPRRKQPWQEDETQAEDTSIENHLCLYASKESYNEKTQQT  
SRKAFGHGRIDHSWLPSDKSHITFCGGAFPNRKADLSDKQRNVKLHKARSSHLLQVLP  
RSLFPPVASATGSRIITPGEVKKKKAPKALKLPPISEEPPRVLEPLKSQFKANEPPTL  
ILPVEIHVHTKQPPKEKAHRRGAPHPPESEPESEESTPVWRPPLKHASLETPWELTVHLP  
VDASRDTLSPQSSSLPPASLGNLTLKGSKARHTRVHSQKGVWKGDDDAPPHDVAPPLD  
LLPPIKGGKSPESQKGVDSPTS SDHNSPPSLPNMRVPRRALPAAQEDSSDPTLGHFLLGP  
DGEKVCLSLPGHTQTEALPSGKAYESVNSNISHEEEGPSSQHFLKANTEPRANLHMNLYE  
TSPLTQTTEKQGAQQSLEAAAQKTGEPQSCINKALICSNRKEFYTRKLHIDMTPFLKESG  
NALDYQEEAGRPLRETHNDQDPEPRSMTLDSPRASRTEHIQTPEADIVQKVGRDYDVHH  
LHRGLLGYPESPERLSAVYTSLLPREREGKAEPRLFSQETSANISHERDLINAKRKEK  
PKKDKTKGPKSREGKVYGAEEAIGKSKDSKAKKKLEKKTRPQRKRTQKERNLEIAAEL  
SGPDVSYEETEDTSNRGSFASDSFVEDPWLSPKYDAQESQVSLDGRSSPSQIATVTGNME  
SKEERRCEDPSKALLTKREQEKASWDRLRAERAEMRWLEVEKKRREQEEQRQLQQEQLER  
AKKMEEELELEQQRRTTEEIRLRKQRLQEEQQRQEEEEKQQLRLKAAQERARQQQEEFRR  
KLRELQRKKQEEAERAEAEKQRQEELEMQLEEEQKHLMEMAEERLEYQRRKQEAEEKA  
RLAEERRQKEEEAARLALAEATKQAQEQARYWIFGQQLP

>sp|Q7Z794|K2C1B\_HUMAN Keratin, type II cytoskeletal 1b OS=Homo sapiens GN=KRT77 PE=2  
SV=3

MSHQFSSQSAFSSMSRRVYSTSSSAGSGGGSPAVGSVCYARGCGGGGYGIHGRGFGSRS  
LYNLGGSRSISINLMGRSTSGFCQGGGVGGFGGGRGFGVGSTGAGGFGGGFGGAGFGTS  
NFGLGFGPYCPPGGIQEVTINQSLLEPLHLEVDPEIQRIKTQEREQIMVLNNKFASFID  
KVRFLEQQNQVLQTKWELLQQVNTSTGTNNLEPLENYIGDLRRQVDLLSAEQMRQNAEV  
RSMQDVVEDYKSKYEDEINKRTGSENFVVLKKDVDAAYVSKVDLESRVDTLTGEVNFLK  
YLFLTELSQVQTHISDTNVILSMDNNRSLDLDSIIDAVRTQYELIAQRSKDEAEALYQTK  
YQELQITAGRHGDDLKNSKMEIAELNRTVQRLQAEISNVKKQIEQMQLISDAEERGEQA  
LQDAWQKLQDLEALQQSKEELARLLRDYQAMLGVKLSLDVEIATYRQLLEGEESRMSG  
LQSHVISVQNSQSVNGGAGGGGSGGGYGGGSGGGYGGGSGGGYGGGSGGGYGGGSGGGYGS  
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>sp|P02538|K2C6A\_HUMAN Keratin, type II cytoskeletal 6A OS=Homo sapiens GN=KRT6A PE=1  
SV=3

MASTSTTIRSHSSRRGFSANSARLPGVSRSGFSSVSVSRSRGSGGLGGACGGAGFGSRS  
LYGLGGSKRISIGGSCAISGGYGSRAGGSYFGGAGSGFGFGGAGIGFGLGGGAGLAG  
GFGGPGFPVCPGGIQEVTVNQSLTPLNLQIDPTIQRVRAEEREQIKTLNNKFASFIDK  
VRFLEQQNKVLETKWTLLQEQTKTVRQNLEPLFEQYINNLRRLQDSIVGERGRLDSELR  
GMQDLVEDFKNKYEDEINKRTAAENEFVTLKKDVDAAYMNKVELQAKADTLTDEINFLRA  
LYDAELSQMQTHISDTSVVLSDNNRNLDLDSIIAEVKAQYEEIAQRSRAEAESWYQTKY  
EELQVITAGRHGDDLNTKQEI AEINRMIIQRLRSEIDHVKKQCANLQAAIADAEQRGEMAL  
KDAKNKLEGLDALQKAKQDLARLLKEYQELMNVKLALDVEIATYRKLLEGEECRLNGEG  
VGQVNISVVQSTVSSGYGGASGVGSGGLGGGSSSYSGSLGVGGGFSSSSGRAIGGGLS  
SVGGGSSTIKYTTTSSSRKSYKH

>sp|Q5TCS8|KAD9\_HUMAN Adenylate kinase 9 OS=Homo sapiens GN=AK9 PE=1 SV=2  
MTSQEKTEEYPFADIFDEDETERNFLLSKPVCFVVFVKPGVGKTTLARYITQAWKCIRVE

ALPILEEQIAAETESGVMQLSMLISGQSIPDELVIKLMLEKLN SPEVCHFGYIITEIPSL  
SQDAMTTLQQIELIKNLNLKPDVIINIKCPDYDL CQRISGQRQHNNTGYIYSRDQWDPEV  
IENHRKKKKKEAQKDGKGE EEEEEEEEEEAFIAEMQMAEILHHLVQRPEDYLENVENI  
VKLYKETILQTLEEVMAEHN PQYLIELNGNKPAEELFMI VMDRLKYLNLKRAAILTKLQG  
AEEEINDTMENDELFR TLASYKLIAPRYRWQRSKWGRTCPVNLKDGNISGLPDYSVSFL  
GKIYCLSS E EALKPFLNPRPYLLPPMPGPPCKVFILGPQYSGKTTLCNMLAENYKGKV  
DYAQLVQPRFDKARETLVENTIAEATAAAIKVVKEKLLRELQARKQAETALREFQRQYEK  
MEFGVFPMEATHSSIDE EGYIQGSQRDRGSSSLVDTEEAKTKSENVLHDQAAKVDKDDGKE  
TGFTFTFKRHSQDASQDVKLYSDTAPTEDLIEEVTADHPEVVTMIEETIKMSQDINFEQP  
YEKHA EILQEVLGEVMEENKDRFP GAPKYGGWIVDNCPIVKELWMALIKKGIIPDLVIYL  
SDTENNGKCLFNRIYLQKKSEIDSKILERLLEELQKKKKEEEEARKATEEELRLEENNR  
LLELMKVKAKEAEETDNEDEEEIEGDELEVHEEPEASHDRG SWLPEEF EASEVPETEPE  
AVSEPIEETT VETEIPKGSKEGLEIEKLSETTVLPEFPEDSYDPVPEMEPFKEKIGSFII  
LWKQLEATISEAYIKILNLEIADRTPQELLQKV VETMEKPFQYTAWELTGEDYEEETEDY  
QTEAEVDEEE EEEEEEGEDKMKERKRHLGDTKHFCPVVLKENFILPGNTEEA AKYREK  
IYYFSSAEAKEKFLEHPEDYVAHEEPLKAPPLRICLVGPQSGKTMCGRQLAEKLNIFHI  
QFEVLQEKLLLKTEKKVGPEFEEDSENEQA AKQELEELAIQANVKEEENTKKQLPEVQ  
LTEEEEVIKSSLMENEPLPPEILEVILSEWWLKEPIRSTGFILDGFPRYP EEAQFLGDRG  
FFPDAAVFIQVDDQDIFDRLLPAQIEKWKLKQKKKLERKKLIKDMKAKIRVD TIAKRRAE  
LILERDKKRRENVVRDDEEISEEELEEDNDDIENILEDEFKDEEEMS GEEDEEQETDAI  
ERL RGE LG EKFEADTHNLQIIQDELERYLIP IISINGARRNHIVQYTLNMKLKPLVENRA  
SIFEKCHPI PAPLAQKMLTFTYKYISSFGYWD PVKLSGETIKPVENAENPIYPVIHRQY  
IYFLSSKETKEKFMKNPIKYIRQPKPKPTVP IRIIIVGPPKSGKTTVAKKITSEYGLKHL  
SIGGALRYVLNNHPETELALMLNWLHKGMTAPDELA IQALELSLMESVCNTAGVVIDGY  
PVTKHQMN LLEARSIPMVIFELSVPSKEIFKRLLLEKENEQRLPYPLHNSAQIVAVNNV  
KYRKNIGEIRQYYQE QHQNWYVIDGFH SKWWVWNEVIKNVQMVNKYMQTYLERIKAGKAA  
CIDKLCITPQELLSRLGEFEQFCPVSLAESQELFDCSATDSLEFAAEFRGHYYKMSSQEK  
LNKFLENPELYVPPLAPHPLPSADMI PKRLT LSELKS RFPKCAELQGYCPV TYKDGNQRY  
EALVPGSINYALEYHNRIYICENKEKLQKFLRSPLKYWEQKLP HKLPPLREPILLTSLPL  
PGYLEQGIATSLIKAMNAAGCLPKFPFLSIRRSALLYIALHLKAFNPKGSEYTRKKYKK  
KMEQFMESCELITYLGAKMTRKYKEPQFRAIDFDHKLKTFLSLRNIDPING

>sp|P31323|KAP3\_HUMAN cAMP-dependent protein kinase type II-beta regulatory subunit  
OS=Homo sapiens GN=PRKAR2B PE=1 SV=3

MSIEIPAGL TELLQGFTVEVL RHQPADLLEFALQH FTRLQQENERKGTARFGHEGRTWGD  
LGAAAGGGTPSKGVNFAE EPMQSDSEDEGE EEEAAPADAGAFNAPVINRFTRRASVCAEAY  
NPDEEEDDAESRIIHPKTDDQRNRLQEACKDILLFKNLDPEQMSQVLDAMFEKLVKDGEH  
VIDQGDDGDNFYVIDRGTFDIYVKCDGVGRCVGN YDNRGSFGELALMYNTPRAATITATS  
PGALWGLDRVTFRRIVKNNAKKRKMYESFIESLPFLKSLEFSERLKVVDVIGTKVYNDG  
EQIIAQGDSAD SFFIVESGEVKITMKRKGKSEVEENGAVEIARCSRGQYFGELALVTNKP  
RAASAHAI GTVKCLAMDVQAFERLLGPCMEIMKRNIATYEEQLVALFGTNMDIVEPTA

>sp|P17612|KAPCA\_HUMAN cAMP-dependent protein kinase catalytic subunit alpha OS=Homo  
sapiens GN=PRKACA PE=1 SV=2

MGNAAA AAKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHL DQFERIKTLGTGSFGRVML  
VKHKETGNHYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMV

MEYVPGGEMFSLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDQQGY  
IQVTDGFAKRVKGRTWTLCTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFF  
ADQPIQIYEKIVSGKVRFPSPHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT  
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSINEKCGKEFSEF

>sp|Q9H7Z6|KAT8\_HUMAN Histone acetyltransferase KAT8 OS=Homo sapiens GN=KAT8 PE=1 SV=2

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YLCRRPDSTWHSAEVIQSRVNDQEGREEFYVHYVGFNRRLDEWVDKNRLALTKTVKDAVQ  
KNSEKYLSELAEQPERKITRNQKRKHDEINHVQKTYAEMDPTTALEKEHEAITKVKYVD  
KIHIGNYEIDAWYFSPFPEDYGKQPKLWLCEYCLKYMKYKSYRFHLGQCQWRQPPGKEI  
YRKSNISVYEVDGKDHIYCNLCLLAKLFLDHKTLYFDVEPFVFIILTEVDRQGAHIVG  
YFSKEKESPDGNNVACILTLPPYQRRGYGKFLIAFSYELSKLESTVGSPEKPLSDLGKLS  
YRSYWSWVLEILRDFRGTLSIKDLSQMTSITQNDIISTLQSLNMVKYWKQGHVICVTPK  
LVEEHLKSAQYKKPPITVDSVCLKWAPPKHKQVKLSKK

>sp|Q8IYT4|KATL2\_HUMAN Katanin p60 ATPase-containing subunit A-like 2 OS=Homo sapiens  
GN=KATNAL2 PE=2 SV=3

MELSYQTLKFTHQAREACEMRTEARRKNLLILISHYLTQEGYIDTANALEQETKLGLRRF  
EVCNDIDLETILMEYESYFVKFKYKPKIVKKSSDTAENNLQSRSGKTRRMMNDSQNL  
PKINQQRPRSKTTAGKTGDTKSLNKEHPNQEVVDNTRLESANFGLHISRIRKDSGEENAH  
PRRGQIIDFQGLLTDAIKGATSELALNTFDHNPDPSERLKPLSAFIGMNSEMRELAADV  
SRDIYLHNPNIKWNDIIGLDAAKQLVKEAVVPIRYPQLFTGILSPWKGLLLYGPPGTGK  
TLLAKAVATECKTTFNISASTIVSKWRGDSEKLVRLVLFELARYHAPSTIFLDELESVMS  
QRGTASGGEHEGSLRMKTELLVQMDGLARSEDLVFVLAASNLPWELDCAMLRRLKRLV  
DLPSREARQAMIYHWLPPVSKSRALELHTELEYSVLSQETEGYSGSDIKLVCREAAMRPV  
RKIFDALENHQSESSDLPRIQLDIVTTADFLDVLTHTKPSAKNLAQRYSDWQREFESV

>sp|Q96EK5|KBP\_HUMAN KIF1-binding protein OS=Homo sapiens GN=KIF1BP PE=1 SV=1

MANVPWAEVCEKFQAALALSRVELHKNPEKEPYKSKYSARALLEEVKALLGPAPEDEDER  
PEAEDGPGAGDHALGLPAEVVEPEGPVAQRAVRLAVIEFHLGVNHIDTEELSAGEEHLVK  
CLRLRRYRLSHDCISLCIQAQNNLGILWSEEEIETAQAYLESSEALYNQYMKEVGSP  
LDPTERFLPEEKLTEQERSKRFEKVYTHNLYLAQVYQHLEMFKAHHYCHSTLKRQLE  
HNAYHPIEWAINAATLSQFYINKLCFMEARHCLSAANVIFGQTGKISATEDTPEAEGEVP  
ELYHQRKGEIARCIWIKYCLTLMQNAQLSMQDNIGELDLKQSELRALRKELDEEESIRK  
KAVQFGTGELCDAISAVEEKVSYLRPLDFEEARELFLLGQHYVFEAKEFFQIDGYVTDHI  
EVVQDHSALFKVLAFETDMERRCKMHKRRIAMLEPLTVDLNPQYYLLVNRQIQFEIAHA  
YYDMMDLKVAIADRLRDPDSHIVKKNLNLKSALKYYQLFLDSLRLPNKVFPEHIGEDVL  
RPAMLAKFRVARLYGKIITADPKKELENLATSLEHYKFIVDYCEKHPEAAQEIEVELELS  
KEMVSLLPTKMERFRTKMALT

>sp|Q8WVZ9|KBTB7\_HUMAN Kelch repeat and BTB domain-containing protein 7 OS=Homo sapiens  
GN=KBTBD7 PE=1 SV=1

MQSREDVPRSRRLASPRGGRPKRISKPSVSAFFTGPPEELKDTAHSAAQLKSFYDAR  
LLCDVTIEVVTPGSGPGTGRLFSCNRNVLAAACPYFKSMFTGGMYESQQASVTMHDVDAE  
SFEVLVDYCYTGRVSLSEANVQRLYAASDMLQLEYVREACASFLARRLDLTNCTAILKFA  
DAFDHHKLRSAQSYIAHNFKLSRMGSIREETLADLTALQLLAVLRDLSDIESERTVC  
HVAVQWLEAAAKERGPSAAEVFKCVRWMHFTEEDQDYLEGLLTKPIVKKYCLDVIIEGALQ  
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PYSGDIYTMPSP LTSFAHTKTVTSSAVCVSPDHDIYLAAPRKDLWVYKPAQNSWQQLAD  
RLLCREGMDVAYLNGYIYILGGRDPITGVKLKEVECYSVQRNQWALVAPVPHSFYSFELI  
VVQNYLYAVNSKRMLCYDPSHNMWLN CASLKRSD FQEACVFNDEIYCICDIPVMKVYNPA  
RGEWRRISNIPLDSETHNYQIVNHDQKLLLITSTTPQWKKNRVTVYEYDTREDQWINIGT  
MLGLLQFDSGFICLCARVYPSCLEPGQSFITEEDDARSESTEWDL DGFSELDSESGSSS  
SFSDDDEVWVQVAPQRNAQDQQGSL

>sp|Q9HCP0|KC1G1\_HUMAN Casein kinase I isoform gamma-1 OS=Homo sapiens GN=CSNK1G1 PE=1  
SV=1

MDHPSREKDERQRTTKPMAQRS AHCSRPSGSSSSSGVLMVGNFRVGGKIGCGNFGE LRL  
GKNLYTNEYVAIKLEPIKSRAPQLHLEYRFYKQLGSAGEGLPQVYFPGCGKYNAMVLEL  
LGPSLEDLFDLCDRFTLKT VLMIAIQLLSRMEYVHKNLIYRDVKPENFLIGRQGNKKE  
HVIHIIDFGLAKEYIDPETKKHIPYREHKS LTGTARYMSINTHLGKEQSRRDDLEALGHM  
FMYFLRGSLPWQGLKADTLKERYQKIGDTKRNTPIEALCENFPEEMATYLRVVRRLDFFE  
KPDYEYLR TLFDTLFEKKGYTFDYAYDWVGRPIPTPVG SVHVD SGASAITRESH THDRP  
SQQQPLRNQVVSSTNGELNVDDPTGAHSNAPITAHAEVEVVEAKCCCFKRRKRKKT AQR  
HK

>sp|P78368|KC1G2\_HUMAN Casein kinase I isoform gamma-2 OS=Homo sapiens GN=CSNK1G2 PE=1  
SV=1

MDFDKKGKGETEEGRMSKAGGRSSHGIRSSGTSSGVLMVGNFRVGGKIGCGNFGE L  
RLGKNLYTNEYVAIKLEPIKSRAPQLHLEYRFYKQLSATEGVPQVYFPGCGKYNAMVLE  
LLGPSLEDLFDLCDRFTLKT VLMIAIQLITRMEYVHTKSLIYRDVKPENFLVGRPGTKR  
QHAIHIIDFGLAKEYIDPETKKHIPYREHKS LTGTARYMSINTHLGKEQSRRDDLEALGH  
MFMYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVL CENFPEEMATYLRVVRRLDFF  
EKPDYDYL RKLFTDLFDRSGVFV DYEYDWAGKPLPTPIGT VHTDLPSQPQLRDKTQPHSK  
NQALNSTNGELNADDPTAGHSNAPITAPAEVEVADETKCCCFKRRKRKSLQRHK

>sp|O43448|KCAB3\_HUMAN Voltage-gated potassium channel subunit beta-3 OS=Homo sapiens  
GN=KCAB3 PE=2 SV=2

MQVSIACTEQNLRSRSEDRLCGPRPGPGGGNGGPAGGGHGNPPGGGSGPKARAALVPR  
PPAPAGALRESTGRGTGMKYRNLGKSGLRV SCLGLGTWVTFGSQISDETAEDVLT VAYEH  
GVNLFDTAEVYAAGKAERTLGNILKSKGWRRSSYVITTKIFWGGQAETERGLSRKHIIEG  
LRGSLERLQLGYVDIVFANRSDPNCPMEEIVRAMTYVINQGLALYWGTSRWGA AEIMEAY  
SMARQFNLI PPVCEQAEHHLFQREKVEMQLPELYHKIGVGSVTWYPLACGLITSKYDGRV  
PDTCRASIKGYQWLKDKVQSEDGKKQAKVMDLLPVAHQLGCTVAQLAIAWCLRSEGVSS  
VLLGVSSAEQLIEHLGALQVLSQLTPQT VMEIDGLLG NKPHSKK

>sp|P22460|KCNA5\_HUMAN Potassium voltage-gated channel subfamily A member 5 OS=Homo  
sapiens GN=KCNA5 PE=1 SV=4

MEIALVPLENGGAMTVRGGDEARAGCGQATGGELQCPPTAGLSDGPKEPAPKGRGAQRDA  
DSGVRPLPLPDGVRPLPLPEELPRRRPPPEDEEEGDPGLGTVEDQALGTASLHHQ  
RVHINISGLRFETQLGT LAQFPNTLLGDP AKRLRYFDPLRNEYFFDRNRPSFDGILYYYQ  
SGGRLRRPVNVS LDVFADEIRFYQLGDEAMERFREDEGFIKEEEKPLRNEFQRQVWLIF  
EYPESSGSARAIAIVSVLVILISITFCLETLP EFRDERELLRHPPAPHQPPAPAPGANG  
SGVMAPPSGPTVAPLLPRTLADPFFIVETTCVIWFTFELLVRFFACPSKAGFSRNIMNII  
DVVAIFPFYFITLGT ELAEQQPGGGGGGQNGQQAMSLAILRVIRLVRFRIFKLSRHSKGL  
QILGKTLQASMRELGLLIFFLFIGVILFSSAVYFAEADNQGTHFSSIPDAFWWAVVTMTT

VGYGDMRPITVGGKIVGSLCAIAGVLTIALPVPVIVSNFNFYHRETDHEEPAVLKEEQG  
TQSQGPGLDRGVQRKVSGSRGSFCKAGGTLENADSARRGSCPLEKCNVKAASNVDLRRSL  
YALCLDTSRETDL

>sp|P48547|KCNC1\_HUMAN Potassium voltage-gated channel subfamily C member 1 OS=Homo sapiens GN=KCNC1 PE=1 SV=1

MGQGDESERIVINVGGTRHQTYRSTLRTLPGTRLAWLAEPDAHSHFDYDPRADEFFFDHRH  
PGVFAHILNYYRTGKLHCPADVCGPLYEEELAFWIDETDVEPCCWMTYRQHRDAEEALD  
SFGGAPL DNSADDADADGPGDSGDELEMTKRLALSDSPDGRPGGFWRWQPRIWALF  
EDPYSSRYARYVAFASLFFILVSITTFCLETHERFNPIVNKTEIENVRNGTQVRYREAE  
TEAFLTYIEGVCVWFTFEFLMRVIFCPNKVEFIKNSLNIIDFVAILPFYLEVGLSGLSS  
KAAKDVGLFLRVRFVIRILRIFKLTRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFA  
TMIYYAERIGAQPNDPSASEHTHFKNIPIGFWWAVVTMTTLGYGDMYPQTWSGMLVGALC  
ALAGVLTIAMPPVIVNNGMYISLAMAKQKLPKKKKKHPRPPQLGSPNYCKSVVNSPH  
HSTQSDTCPLAQEEILEINRAGRKPLRGMSI

>sp|Q9NZV8|KCND2\_HUMAN Potassium voltage-gated channel subfamily D member 2 OS=Homo sapiens GN=KCND2 PE=1 SV=2

MAAGVAAWLPFARAAAGWMPVASGMPAPPRQERKRTQDALIVLNVSGTRFQTWQDTLE  
RYPDTLLGSSERDFFYHPETQQYFFDRDPDIFRHILNFYRTGKLHYPRHECISAYDEELA  
FFGLIPEIIGDCCYEEYKDRRRENAERLQDDADTD TAGESALPTMTARQVWRAFENPHT  
STMALVFYYVTGFFIAVSVIANVVETVPCGSSPGHIKELPCGERYAVAFFCLDTACVMIF  
TVEYLLRLAAAPSRYRFVRVMSIIDVVAILEPYYIGLVMTDNEDVSGAFVTLRVFRVFRI  
FKFSRHSQGLRILGYTLKSCASELGFLFSLTMAIIIFATVMFYAEKGSSASKFTSIPAA  
FWYTIVTMTTLGYGDMVPKTIAGKIFGSICSLSGVLVIALPVPVIVSNFSRIYHQNRAD  
KRRQAQKARLARIRAAKSGSANAYMQSKRNGLLSNQLQSSSEDEQAFVSKSGSSFETQHHL  
LLHCLEKTTNHEFVDEQVFEECSMEVATVNRPSHSPSLSSQQGVSTCCSRRHKKTFRI  
PNANVSGSHQGSIQELSTIQIRCVERTPLSNSRSSLNAKMEECVKLNCEQPYVTTAIIISI  
PTPPVTTPEGDDRPESPEYSGGNIVRVSA

>sp|P15382|KCNE1\_HUMAN Potassium voltage-gated channel subfamily E member 1 OS=Homo sapiens GN=KCNE1 PE=1 SV=1

MILSNTTAVTPFLTKLWQETVQQGNMSGLARRSPRSSDGKLEALYVLMVLGFFGFFTLG  
IMLSYIRSKKLEHSDNPFNVYIESDAWQEKDKAYVQARVLESYRSCYVENHLAIEQPNT  
HLPETKPSP

>sp|Q8WWG9|KCNE4\_HUMAN Potassium voltage-gated channel subfamily E member 4 OS=Homo sapiens GN=KCNE4 PE=1 SV=4

MHFLTIYPNCSSGVVRAQSRTEQKNPLGLDDLGIQNLGQTVSLAPAVEAASMLKMEPLNS  
THPGTAASSSPLESRAAGGSGNGNEYFYIILVMSFYGIFLIGIMLYMKSRRREKKSSL  
LLLYKDEERLWGEAMKPLPVVSGLRVQVPLMLNMLQESVAPALSCTLCMEGDSVSSES  
SSPDVHLTIQEEGADDELEETSETPLNESSEGSSENIHQNS

>sp|P48048|KCNJ1\_HUMAN ATP-sensitive inward rectifier potassium channel 1 OS=Homo sapiens GN=KCNJ1 PE=1 SV=1

MNASSRNVFDTLIRVLTESMFKHLRKWVVTRFFGHSRQRARLVSKDGRCNIEFGNVEAQS  
RFIFFVDIWTTVLDLKWRYKMTIFITAFGLSWFFFGLLWYAVAYIHKDLPEFHPSANHTP  
CVENINGLTSAFLFSLETQVTIGYGFRCVTEQCATAIFLLIFQSILGVIINSFMCGAILA  
KISRPKKRAKTITFSKNAVISKRGKLCLLIRVANLRKSLIGSHIYGKLLKTTVTPEGE

TIILDQININFVVDAGNENLFFISPLTIYHVIDHNSPFFHMAAETLLQQDFELVVFLDGT  
VESTSATCQVRTSYVPEEVLWGYRFAPIVSKTKEGKYRVDFHNFSKTVEVETPHCAMCLY  
NEKDVRARMKRGYDNPINFILSEVNETDDTKM

>sp|014649|KCNK3\_HUMAN Potassium channel subfamily K member 3 OS=Homo sapiens GN=KCNK3  
PE=1 SV=1

MKRQNVRTLALIVCTFTYLLVGAADFDALESEPELIERQRLELRQQELRARYNLSQGGYE  
ELERVVLRCLKPHKAGVQWRFAGSFYFAITVITITIGYGHAA PSTDGGKVF CMFYALLGIPL  
TLVMFQSLGERINTLVRYLLHRAKKGLGMRRADVSMANMVLIGFFSCISTLCIGAAAFSH  
YEHWTFQAYYYCFITLTTIGFGDYVALQKDQALQTQPQYVAFSFVYILTGLTVIGAFLN  
LVVLRFTMNAEDEKRDAEHRALLTRNGQAGGGGGGSAHTTDTASSTAAAGGGGFRNVY  
AEVLHFQSMCCLWYKSREKLQYSIPMIIPRDLSTSDTCVEQSHSSPGGGGRYSDTPSRR  
CLCSGAPRSAISSVSTGLHSLSTFRGLMKRRSSV

>sp|Q9NYG8|KCNK4\_HUMAN Potassium channel subfamily K member 4 OS=Homo sapiens GN=KCNK4  
PE=1 SV=2

MRSTTLALLALLVLLYLVS GALVFRALEQPHEQQAQRELGEVREKFLRAHPCVSDQELGL  
LIKEVADALGGGADPETNSTSNSSHSAWDLGSAFFFSGTIITITIGYGNVALRTDAGRLFC  
IFYALVGIPLFGILLAGVGDRLGSSLRHGIGHIEAIFLKWHPPELVRLSAMLFLIGC  
LLFVLTPTFVFCYMEDWSKLEAIYFVIVTLTTVGFDYVAGADPRQDSPAYQPLVFWIL  
LGLAYFASVLTITIGNWLRVVSRRTRAEMGGLTAQAASWTGTVTARVTQRAGPAAPPPEKE  
QPLPPPPCPAQPLGRPRSPSPPEKAQPPSPPTASALDYPSENLA FIDESSDTQSERGCP  
LPRAPRGRRRPNPPRKPVRPRGPRPRDKGVPV

>sp|Q9NR82|KCNQ5\_HUMAN Potassium voltage-gated channel subfamily KQT member 5 OS=Homo  
sapiens GN=KCNQ5 PE=1 SV=3

MPRHHAGGEEGGAAGLWVKSGAAAAAAGGGRGLSGMKDVESGRGRVLLNSAAARGDGLLL  
LGTRATLGGGGGLRESRRGKQGARM SLLGKPLSYTSSQSCRRNVKYRRVQNYLYNVLE  
RPRGWAFIYHAFVLLVFGCLILSVFSTIPEHTKLASSCLLILEFVMIVVFGLEFIIRIW  
SAGCCCRYRGWQGR LRFARKPFCVIDTIVLIASIAVVS AKTQGNIFATSALRSLRFLQIL  
RMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYAD  
ALWWGTITLTTIGYDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQRH  
KHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPTKKEQGEASSQKLS  
FKERV RMASPRGQS IKSQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTFRPSLRK  
SSQPKPIDADTALGTDDVYDEKGCQCDVSVEDLTPPLKT VIRAIRIMKFHVAKRKFET  
LRPYDVKD VIEQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSREKITA EHETDDL  
SMLGRVVKVEKQVQSIESKLDCLLDIYQQVLRKGSASALALASFQIPPFCEQTS DYQSP  
VSKDLSGSAQNSGCLSRSTANISRGLQFILT PNEFSAQTFYALSPTMHSQATQVPISQ  
SDGSAVAATNTIANQINTAPKPAAPTTLQIPPLPAIKHLPRPETLHPNPAGLQESISDV  
TTCLVASKENVQVAQSNLTKDRSMRKS FDMGGETLLSVCMPV PKDLGKLSVQNLIRSTE  
ELNIQLSGSESSGRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFAS  
DSLRTGRSRSSQSICKAGESTDALSLPHVKLK

>sp|Q16774|KGUA\_HUMAN Guanylate kinase OS=Homo sapiens GN=GUK1 PE=1 SV=2

MSGPRPVVLSGPGAGKSTLLKRLLQEHSGIFGFSVSH TTRNPRPGEENGKDYYFVTREV  
MQRDIAAGDFIEHAEFSGNLYGTSKVAVQAVQAMN R I C V L D V D L Q G V R N I K A T D L R P I Y I  
SVQPPSLHVLEQRLRQNTETEE SLVKRLAAAQADMESSKEPGLFDVVIINDSLDQAYAE  
LKEALSEEIKKAQRTGA

>sp|Q9NQT8|KI13B\_HUMAN Kinesin-like protein KIF13B OS=Homo sapiens GN=KIF13B PE=1 SV=2

MGDSKVKVAVRIRPMNRRETDLHTKCVVDVANKVILNPVNTNLSKGDARGQPKVFAYDH  
CFWSMDESVEKEYAGQDIVFKCLGENILQNAFDGYNACIFAYGQTGSGKSYTMMGTADQP  
GLIPRLCSGLFERTQKEENEEQSFKEVSYMEIYNEKVRDLLDPKGSRQTLKVRHESVLG  
PYVDGLSKLAVTSYKDIESLMSEGNKSRTVAATNMNEESSRSHAVFKITLTHTLYDVKSG  
TSGEKVGKLSVLDLAGSERATKGAAGDRLKEGSNINKSLTTLGLVISALADQSAGKNKN  
KFVPPYRDSVLTWLLKDSLGGNSKTAMVATVSPAADNYDETLSTLRYADRAKHIVNHAVVN  
EDPNARIIRDREEVEKLREQLTKAEAMKSPCLKDRLEESEKLIQEMTVTWEEKLRKTEE  
IAQERQKQLESGLISLQSSGIKVDDKCFVLNADPALNELLVYYLKEHTLIGSANSQD  
IQLCGMGILPEHCIIDITSEGQVMLTPQKNTRTFVNGSSVSSPIQLHHGDRILWGNHFF  
RLNLPKKKKKAEREDEDQDPSMKNENSSEQLDVDGDSSEVSSEVNFNVEYAQMEVTMKA  
LGSNDPMQSIILNSLEQQHEEEKRSALERQRLMYEHELEQLRRRLSPEKQNCRSMDFSFH  
SPSAQQRLRQWAEEREATLNNSLMRLREQIVKANLLVREANYIAEELDKRTEYKVTLQIP  
ASSLDANRKRGSLLSEPAIQVRRKGKGKIWSLEKLDNRLLDMRDLYQEWKECEDNPVI  
RSYFKRADPFYDEQENHSLIGVANVFLESFYDVKLQYAVPIINQKGEVAGRLHVEVMRL  
SGDVGERIAGGDEVAEVSFEKETQENKLVCMVKILQATGLPQHLSHFVFCYKSFWDQQEP  
VIVAPEVDTSSSSVSKEPHCMVFDHCNEFSVNITEDFIEHLSEGALAEVYGHKINDPR  
KNPALWDLGIIQAKTRSLRDRWSEVTRKLEFWVQILEQNENGEYCPVEVISAKDVP TGGI  
FQLRQQSRRVQVEVKSVQESGTLPLMEECILSVGIGCVKVRPLRAPRTHETFHEEEEDM  
DSYQDRDLERLRKWLNALTKRQEYLDQQLQKLVSKRDKTEDDADREAQLLEMRLTLTEE  
RNAVMVPSAGSGIPGAPAEWTPVPGMETHIPVIFLDLNADDFSSQDNLDDPEAGGWDATL  
TGEEEEFFELQIVKQHDGEVKAESWDSAVHGCPLSRGTPVDERLFLIVRVTVQLSHP  
ADMQLVLRKRICNVNHGRQGAQSLLKKMSHRSSIPGCGVTFEIVSNIPEDAQGV EEEA  
LARMAANVENPASADSEAYIEKYLRSVLAVENLLTDLRLRQEVAVKEQLTGKGLSRRSI  
SSPNVNRLSGSRQDLIPSYSLGSNKGRWESQQDVSQTTVSRGIAPAPALSVSPQNNHSPD  
PGLSNLAASYLNPVKSFPVQMPKLLKSLFPVRDEKRGKRPSPLAHQVPVPRIMVQSASPD  
RVTRMEEAQPEMGPDVLVQTMGAPALKICDKPAKVPSPPPVIAVTAVTPAPEAQDGPPSP  
LSEASSGYFSHSVSTATLSDALGPGLDAAAPPGSMPTAPEAEPEAPISHPPPPTAVPAEE  
PPGPQQLVSPGRERPDLEAPAGSPFRVRRVRASELRSFSRMLAGDPCSPGAEGNAPAP  
GAGGQALASDSEEAEVPEWLREGEFVTVGAKHTGVVRYVGPADFQEGTWVGVELDLPSG  
KNDGSIGGKQYFRCPNGYGLLVRSRVRRTGPVRRRSTGLRLGAPEARRSATLSGSATN  
LASLTAALAKADRSKPNPENRKSAS

>sp|O95235|KI20A\_HUMAN Kinesin-like protein KIF20A OS=Homo sapiens GN=KIF20A PE=1 SV=1

MSQGILSPAGLLSDDDVVSPMFESTAADLGSVVRKNLLSDCSVVSTSLEDKQQVPSED  
SMEKVKVYLVRPPLPSELERQEDQGCVRIENVETLVLQAPKDSFALKSNERGIGQATHR  
FTFSQIFGPEVGQASFFNLTVKEMVKDVLKGQNWLIYTYGVTNSGKHTTIQGTIKDGGIL  
PRSLALIFNSLQQLHPTPDLKPLLSNEVIWLDSKQIRQEEMKKLSLLNGGLQEEELSTS  
LKRSVYIESRIGTSTSFDSGIAGLSSISQCTSSSQLEDETSHRWAQPDAPLPVPANIRFS  
IWISSFETIYNELLYDLEPPSQQRKRQTLRLCEDQNGNPYVKDLNWIHVQDAEEAWKLLK  
VGRKNQSFASHTLNQSSRSHSIFSIRILHLQEGEDIVPKISELSLCDLAGSERCKDQKS  
GERLKEAGNINTSLHTLGRCIAALRQNNQNRSKQNLVPFRDSKLTRVFQGGFTGRGRSCM  
IVNVNPCAstyDETlHVAKFSIAIASQLVHAPPMQLGFPSLHSFIKEHSLQVSPSLEKGAK  
ADTGLDDDIENEADISMYGKEELLQVVEAMKTLKKERQEKQLQEMHLRDEICNEMVEQM  
QQREQWCSEHLD TQKELLEEMYEEKLNILKESLTSFYQEEIQRERDEKIEELEALLQEARQ

QSVAHQQSGSELALRRSQRLAASASTQQLQEVKAKLQQCKAELNSTTEELHKYQKMLEPP  
PSAKPFTIDVDKKLEEGQKNIRLLRTELQKLGESLQSAERACCHSTGAGKLRQALTTCDD  
ILIKQDQTLAELQNNMVLVKDLRKAACIAEQYHTVLKLQGQVSAKKRLGTNQENQQPN  
QQPPGKKPFLRNLLPRTPTCQSSTDCSPYARILRSRRSPLLKSGPFGKKY

>sp|Q8NHK3|KI2LB\_HUMAN Killer cell immunoglobulin-like receptor 2DL5B OS=Homo sapiens  
GN=KIR2DL5B PE=3 SV=1

MSLMVISMACVGFLLQGAWTHEGGQDKPLLSAWPSAVVPRGGHVTLLCRSRLGFTIFSL  
YKEDGVPPELYNKIFWKSILMGPVTPAHAGTYRCRGSHPRSPIEWSAPSNPLVIVVTGL  
FGKPSLSAQPGPTVRTGENVALSCSSRSSFDMYHLSREGRAHEPRLPAVPSVDGTFQADF  
PLGPATHGGTYTCFSSLHDSPEYWDPSDPLLVSVTGNSSSSSSSPTEPSSKTGIRRHLLH  
ILIGTSVAIILFIILFFLLHCCCSNKKNAAVMDQGPAGDRTVNREDSDDQDPQEVTYAQ  
LDHCVFTQTKITSPSQRPKTPPTDTTMYMELPNAKPRSLPAHKHHSQALRGSSRETTAL  
SQNRVASSHVPAAGI

>sp|Q8N7Y1|KIAS3\_HUMAN Putative uncharacterized protein KIRREL3-AS3 OS=Homo sapiens  
GN=KIRREL3-AS3 PE=5 SV=1

MEKRGESLDLGVRCRGEERDRRPCWKPSRPGAARGGRGLWTVGGGSPTETAESQQLGK  
PPEFWWSAHPGWLQVSCAHRASRDASRWHLPLQRFFARRGVRRPNPSVPSPLPKPPVPSA  
GSCEPLAPPPTSASGASRSWVTQTAEAGAYRGCRPAPGSAAGWPRSDDRARLPRKASKP  
CSPALPSLAACCPQGFLRSGTKRVMCKVLGPGAGVRGTAVECSEQAGVWAHCRPQLTATF  
S

>sp|Q8IX03|KIBRA\_HUMAN Protein KIBRA OS=Homo sapiens GN=WWC1 PE=1 SV=1

MPRPELPLPEGWEEARDFDGKVVYIDHTNRTTSWIDPRDRYTKPLTFADCISDELPLGWE  
EAYDPQVGDFYIDHNTKTTQIEDPRVQWRREQEHMLKDYLVAQEALSAQKEIYQVKQQR  
LELAQQEYQQLHAVWEHKLGSQVSLVSGSSSSSKYDPEILKAEIATAKSRVNLKREMVH  
LQHELQFKERGFQTLKKIDKKMSDAQGSYKLDEAQAVLRETKAIKKAITCGEKEKQDLIK  
SLAMLKDGFRTRDRGSHSDLWSSSSLESSSFPLPKQYLDVSSQTDISGSFGINSNNQLAE  
KVRLRLRYEEAKRRIANLKIQLAKLDSEAWPGVLDSEDRDLILINEKEELLKEMRFISPR  
KWTQGEVEQLEMARKRLEKDLQAARDTQSKALTERLKLNSKRNLVRELEEATRQVATLH  
SQLKSLSSSMQSLSSGSSPGLTSSRGLVASSLDSSTSASFDTLYDPFEQLDSELQSK  
VEFLLLEGATGFRPSGCITTIHEDEVAKTQKAEGGGRLQALRSLSGTPKSMTSLSPRSSL  
SSPSPPCSPLMADPLLAGDAFLNSLEFEDPELSATLCELSLGNQAQERYRLEEPGTEGKQ  
LGQAVNTAQGCGLKVACVSAAVSDESAGDSGVYEASVQRLGASEAAAFDSDESEAVGAT  
RIQIALKYDEKNKQFAILIIQLSNLSALLQQQDQKVNIRVAVLPCSESTTCLFRTRPLDA  
SDTLVFNEVFVWMSYPALHQKTLRVDVCTTDRSHLEECLGGAQISLAEVCRSGERSTRW  
YNLLSYKYLKKQSRELKPVGVMAPASGPASTDAVSALLEQTAVELEKRQEGRSSTQTLED  
SWRYEETSENEAAEEEEEEVEEEGEEDVFTEKASPDMDGYPALKVDKETNTETPAPSP  
TVVRPKDRRVGTPSQGPFLRGSTIIIRSKTFSPGPQSQYVCRLNRSDSDSSTLSKKPPFVR  
NSLERRSVRMKRPSVSKLSRERLIRTSLDLELDLQATRTHWSQLTQEISVLKELKEQLE  
QAKSHGEKELPQWLREDERFRLLLRMLEKRQMDRAEHKGELQTDKMMRAAAKDVHRLRGQ  
SCKEPPEVQSFREKMAFFTRPRMNIPALSADDV

>sp|Q9P2E2|KIF17\_HUMAN Kinesin-like protein KIF17 OS=Homo sapiens GN=KIF17 PE=2 SV=3

MASEAVKVVVRCRPMNQRRERELRCQPVVTVDCARAQCCIQNPGAADPEPKQFTFDGAYHV  
DHFTEQIYNEIAYPLVEGVTEGYNGTIFAYGQTGSGKSFTMQGLPDPPSQRGIIPRAFEH  
VFESVQCAENTKFLVRASYLEIYNEDVRDLLGADTKQKLELKEHPEKGVYVKGLSMHTVH



SVAQCEHIMETGWKNRSVGYTLMNKDSSRSHSIFTISIEMSAVDERGKDHLRAGKLNLD  
LAGSERQSKTGATGERLKEATKINLSLSALGNVISALVDGRCKHVPYRDSKLTRLLQDSL  
GGNTKTLMVACLSPADNNYDETLSTLRYANRAKNIRNKPRINEDPKDALLREYQEEIKKL  
KAILTQQMSPSSLSALLSRQVPPDPVQVEEKLLPQPVIQHDVEAEKQLIREEYEERLARL  
KADYKAEQESRARLEEDITAMRNSYDVRLSTLEENLRKETEAVLQVGVLYKAEVMSRAEF  
ASSAEYPPAFQYETVVKPKVFSTDTLPSDDVSKTQVSSRFAELPKVEPSKSEISLGSSE  
SSSLEETSVSSEAFPGPEEPSNVEVSMPTEESRSRYFLDECLGQEAAGHLLGEQNYLPQEE  
PQEVPLQGLLGLQDPFAEVEAKLARLSSTVARTDAPQADVPKVPVQVPAPTDLLEPSDAR  
PEAEAADDFFPRPEVDLASEVALEVVRTAEPGVWLEAQAPVALVAQPEPLPATAGVKRES  
VGMEVAVLTDDPLPVVDQQQVLARLQLLEQQVVGGEQAKNKDLKEKHKRRKRYADERRKQ  
LVAALQNSDESDGWLLNVYDSIQEEVRAKSKLLEKMQRKLRAAEVEIKDLQSEFQLEK  
IDYLATIRRQERDSMLLQQLLEQVQPLIRRD CNYSNLEKILRESCWDEDNGFWKIPHPVI  
TKTSLPVAVSTGPQNK PARKTSAADNGEPN MEDDRYRLMLSRSNSEN IASNYFRSKRASQ  
ILSTDARKSLTHNSPPGLSCPLSNNSAIPPTQAPEMPQPRPFRLES LDIPFTKAKRKKKS  
KSNFGSEPL

>sp|P10721|KIT\_HUMAN Mast/stem cell growth factor receptor Kit OS=Homo sapiens GN=KIT  
PE=1 SV=1

MRGARGAWDFLCVLLLLLRVQTGSSQPSVSPGEPSPPSIHPGKSDLIVRVGDEIRLLCTD  
PGFVKWTFEILDETNENKQNEWITEKAEATNTGKYTCTNKHGLSNSIYVFVRDPAKLFLV  
DRSLYGKEDNDTLVRCPLTDPEVTNYS LKGCQ GKPLPKDLRFIPDPKAGIMIKSVKRAYH  
RLCLHCSVDQEGKS VLSSEKFI LKVRPAFKAVPVSVSKASYLLREGEETVTCTIKDVSS  
SVYSTWKRENSQTKLQEKYNSWHHGFNYERQATLTISSARVNDSGVFM CYANNTFGSAN  
VTTTLEVVDKGFINIFPMINTTVFVNDGENVDLIVEYEAFPKPEHQQWIYMNRTFTDKWE  
DYPKSENE SNIRYVSELHLTRLKGTEGGTYTFLVSNSDVNAAIAFN VYVNTKPEILTYDR  
LVNGMLQCVAAGFPEPTIDWYFCPGTEQRCSASVLPVDVQTLNSSGPPFGKLVVQSSIDS  
SAFKHNGTVECKAYNDVGKTSAYFNFAFKGNKEQIHPHTLFTPLLIGFVIVAGMMCIIV  
MILTYKYLQKPMYEVQWKVVEEINGNNYVYIDPTQLPYD HKWEFPRNRLSFGKTLGAGAF  
GKVVEATAYGLIKSDAAMTVAVKMLKPSAHLTEREALMSELKVL SYLGNHMNIVNLLGAC  
TIGGPTLVITEYCCYGDLLNFLRRKRDSFICSKQEDHAEAAKYKNLLHSESSCSDSTNE  
YMDMKPGVSYVVP TKADKRRSVRIGSYIERDVTPAIMEDELALDLEDLLSFSYQVAKGM  
AFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIKNDSNYVVKGNARLPVKWMAPES  
IFNCVYTFESDVWSYGIFLWELFSLGSSPYPGMPVDSKFYKMIKEGFRMLSPEHAPAEMY  
DIMKTCWDADPLKRPTFKQIVQLIEKQISESTNHIYSNLANCSPNRQKPVVDH SVRINSV  
GSTASSSQPLL VHDDV

>sp|Q9Y3D8|KAD6\_HUMAN Adenylate kinase isoenzyme 6 OS=Homo sapiens GN=AK6 PE=1 SV=1

MLLPNILLTGTPGVGKTTLGKELASKGLKYINVGDLAREEQLYDGYDEEYDCPILDEDR  
VVDELDNQMREGGVIVDYHGCDFFPERWFHIVFVLRTDTNVL YERLETRGYNEKKLTDNI  
QCEIFQVLYEEATASYKEEIVHQLPSNKPEELENNVDQILKWIEQWIKDHNS

>sp|Q16773|KAT1\_HUMAN Kynurenine--oxoglutarate transaminase 1 OS=Homo sapiens GN=KYAT1  
PE=1 SV=1

MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFPDFPPPDFAVEAFQHAVSGDFML  
NQYTKTFGYPLTKILASFFGELLGQEIDPLRNVLVTVG GYGALFTAFQALVDEGDEVI I  
IEPFFDCYEPMTMMAGGRPVFVSLKPGPIQNGELGSSSNWQLDPMELAGFTSRTKALVL  
NTPNNPLGKVFSREELELVASLCQQHDVVCITDEVYQWMVYDGHQHISIASLPGMWERTL

TIGSAGKTFSATGWKVGWVLGPDHIMKHLRTVHQNSVFHCPTQSQAAVAESFEREQLLFR  
QPSSYFVQFPQAMQRCRDMIRSLQSVGLKPIIPQGSYFLITDISDFKRKMPDLPGAVDE  
PYDRRFVKWMIKKNGLVAIPVSIFYSVPHQKHFDHYIRFCFVKDEATLQAMDEKLRKWV  
EL

>sp|Q92831|KAT2B\_HUMAN Histone acetyltransferase KAT2B OS=Homo sapiens GN=KAT2B PE=1 SV=3  
MSEAGGAGPGGCGAGAGAGAGPGALPPQPAALPPAPPQGSPCAAAAGGSGACGPATAVAA  
AGTAEGPGGGGSARIAVKAQLRSAPRAKKLEKLGVSACKAEESCKNGWKNPNPSPTP  
PRADLQQIIVSLTESCRSCSHALAAHVSHLENVSEEEMNRLLGIVLDVEYLFTCVHKEED  
ADTKQVYFYLFKLLRKSILQRGKPVVEGSLEKKPPFEKPSIEQGVNNFVQYKFSHLPAGE  
RQTIVELAKMFLNRINYWHLEAPSQRRLRSPNDDISGYKENYTRWLCYCNVPQFCDLPR  
YETTQVFGRTLRSVFTVMRRQLLEQARQEKKLPLEKRTLILTHFPKFLSMLEEEVYSQ  
NSPIWDQDFLSASSRTSQLGIQTVINPPPVAGTISYNSTSSSLEQPNAGSSSPACKASSG  
LEANPGEKRKMTDSHVLEEAKKPRVMGDIPMELINEVMSTITDPAAMLGPETNFLSAHSA  
RDEAARLEERRGVIEFHVGNLSLNQKPNKKILMWLVGLQNVFSQLPRMPKEYITRLVFD  
PKHKTALAIKDGRVIGGICFRMFPSQGFTEIVFCAVTSNEQVKGYGTHLMNHLKEYHIKH  
DILNFLTAYADEYAIGYFKKQGSKEIKIPKTKYVGYIKDYEGATLMGCELNPRIPYTEFS  
VIIKKQKEIIKKLIERKQAQIRKVYPGLSCFKDGVRRQPIESIPGIRETGWKPSGKEKSK  
EPRDPDQLYSTLKSILQVQKSHQSAWPFMEPVKRTAPGYEYVIRFMDLKTMSERLKNR  
YYVSKKLFMADLQRVFTNCKEYNPPESEYYKCANILEKFFFSKIKEAGLIDK

>sp|O95251|KAT7\_HUMAN Histone acetyltransferase KAT7 OS=Homo sapiens GN=KAT7 PE=1 SV=1  
MPRRKRNAGSSSDGTEDSDFSTDLHTDSSESDDGTSRRSARVTRSSARLSQSSQDSSPVR  
NLQSFQTEEPAYSTRRVTRSQQQPTPVTPKKYPLRQTRSSGSETEQVVDSDRETNTAD  
HDESPRPTPTGNAPSSSEDIDISSPNVSHDESIADMSLKDSDGSDLSHRPKRRRFHESYN  
FNMKCPPTPGCNSLGHLTGKHERHFSISGCPLYHNLSADECKVRAQSRDKQIEERMLSHRQ  
DDNNRHATRHQAPTERQLRYKEKVAELRKKRNSGLSKEQKEKMEHRQTYGNTREPLEN  
LTSEYDLDFRRAQARASEDLKRLQGQITEGSMIKTIAFGRYELDTWYHSPYPEEYA  
RLGRLYMCEFCLKYMKSQITLRRHMAKCVWKHPPGDEIYRKGSISVFEVDGKKNKIYCQN  
LCLLAKLFLDHKTLYYDVEPFLFYVMTEADNTGCHLIGYFSKEKNSFLNYNVSCILTMPQ  
YMRQGYGKMLIDFSYLLSKVEEKVGSERPLSDLGLISYRSYWEVLLRYLHNFQGEIS  
IKEISQETAVNPVDIVSTLQALQMLKYWKGKHLVLKRQDLIDEWIAKEAKRSNSNKTMDP  
SCLKWTPPKGT

>sp|O75600|KBL\_HUMAN 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial OS=Homo sapiens GN=GCAT PE=1 SV=1  
MWPGNAWRAALFWVPRGRRAQSALAQLRGILEGELEGIRGAGTWKSERVITSRQGPHIRV  
DGVSGGILNFCANNYLGLSSHPEVIQAGLQALEEFAGLSSVRFICGTQSIHKNLEAKIA  
RFHQREDAILYPSCYDANAGLFEALLTPEDAVLSDELNHASIIDGIRLCKAHKYRYRHL  
MADLEAKLQEAQKHRLRLVATDGAFSMDGDIAPLQEIICCLASRYGALVFMDECHATGFLG  
PTGRGTDELLGVMDQVTIINSTLGKALGGASGGYTTGPGPLVSLLRQARPYLFSNSLPP  
AVVGCASKALDLLMGSNTIVQSMAAKTQFRSKMEAAGFTISGASHPICPVMLGDARLAS  
RMADMLKRGIFVIGFSYPVVPKGKARIRVQISAVHSEEDIDRCVEAFVEVGRLHGALP

>sp|Q9NYS0|KBRS1\_HUMAN NF-kappa-B inhibitor-interacting Ras-like protein 1 OS=Homo sapiens GN=NKIRAS1 PE=1 SV=1  
MGKGCKVVVCGLLSVGKTAILEQLLYGNHTIGMEDCETMEDVYMASVETDRGVKEQLHLY  
DTRGLQEGVELPKHYFSFADGFLVYSVNNLESFQRVELLKKEIDKFKDKKEVAIVVLGN

KIDLSEQRQVDAEVAQQWAKSEKVRLEWVTVTDRKTLIEPFTLLASKLSQPQSKSSFPLP  
GRKNKGNSNSEN

>sp|P48730|KC1D\_HUMAN Casein kinase I isoform delta OS=Homo sapiens GN=CSNK1D PE=1 SV=2  
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKTKHPQLHIESKIYKMMQ  
GGVGIPITIRWCGAEGDYNVMVMELLGPSLEDLFNFCSRKFSCLKTVLLADQMISRIEYIH  
SKNFIHRDVKPDNFMGLGKKGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYA  
SINTHLGIEQSRDDLESLGYVLMYFNLGSLPWQGLKAATKRQKYERISEKKMSTPIEVL  
CKGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQGSYDYVFDWNMLKFGASRA  
ADDAERERRRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTSHTANTSPRPV  
SGMERERKVSMLHRGAPVNISSSDLTGRQDTSRMSTSQIPGRVASSGLQSVVHR

>sp|Q13554|KCC2B\_HUMAN Calcium/calmodulin-dependent protein kinase type II subunit beta  
OS=Homo sapiens GN=CAMK2B PE=1 SV=3  
MATTVTCTRTFTDEYQLYEDIGKGAFSVVRRCKVCLCTGHEYAAKIINTKKLSARDHQKLER  
EARICRLKKHNSIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCIQQI  
LEAVLHCHQMGGVVRDLKPENLLLASKCKGAAVKLADFLAIEVQGDQQAQWFGAGTPGY  
LSPEVLRKEAYGKPVDIWACGVILYILLVGYPFWDEDQHKLYQQIKAGAYDFPSPEWDT  
VTPEAKNLINQMLTINPAKRITAEALKHPWVCQRSTVASMHRQETVECLKKFNARRKL  
KGAILTTLATRNFSVGRQTTAPATMSTAASGTTMGLVEQAKSLLNKKADGVKPKQTNSTK  
NSAAATSPKGTLPAALEPQTTVIHNPVDGIKESSDSANTTIEDEDAKAPRVPDILSSVR  
RGSGAPEAEGPLPCPSAPFSPLPAPSPRISDILNSVRRSGGTPEAEGPLSAGPPCLSP  
ALLGPLSSPSPRISDILNSVRRSGGTPEAEGPSVGPCCPSPTIPGPLTPSRKQEI IK  
TTEQLIEAVNNGDFEAYAKICDPGLTSFEPEALGNLVEGMDFHRFYFENLLAKNSKPIHT  
TILNPHVHVIGEDAACIAYIRLTQYIDGQGRPRTSQSEETRVWHRRDGKWQNVHFHCSGA  
PVAPLQ

>sp|Q13557|KCC2D\_HUMAN Calcium/calmodulin-dependent protein kinase type II subunit delta  
OS=Homo sapiens GN=CAMK2D PE=1 SV=3  
MASTTTCTRTFTDEYQLFEELGKGAFSVVRRCKIPTGQEYAAKIINTKKLSARDHQKLER  
EARICRLKKHNSIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCIQQI  
LESVNHCHLNGIVHRDLKPENLLLASKSKGAAVKLADFLAIEVQGDQQAQWFGAGTPGY  
LSPEVLRKDPYKGPVDMWACGVILYILLVGYPFWDEDQHRLYQQIKAGAYDFPSPEWDT  
VTPEAKDLINKMLTINPAKRITASEALKHPWICQRSTVASMHRQETVDCLKKFNARRKL  
KGAILTTLATRNFSAAKSLLKKPDGVKESTESSNTTIEDEVDKARKQEI IKVTEQLIEA  
INNNGDFEAYTKICDPGLTAFEPEALGNLVEGMDFHRFYFENALSKSNKPIHTIILNPHVH  
LVGDAAACIAYIRLTQYMDGSGMPKTMQSEETRVWHRRDGKWQNVHFHRSQSPTVPIKPP  
CIPNGKENFSGGTSLSWQNI

>sp|Q9NS61|KCIP2\_HUMAN Kv channel-interacting protein 2 OS=Homo sapiens GN=KCINIP2 PE=1  
SV=3  
MRGQGRKESLSDSRDLDSYDQLTGHPGPTKKALKQRFLKLLPCCGPQALPSVSETLAA  
PASLRPHRPRLLDPDSVDDEFELSTVCHRPEGLEQLQEQTKFTRKELQVLYRGFKNECPS  
GIVNEENFKQIYSQFFPQGDSSYATFLNFAFDTNHDGSVSFEDFVAGLSVILRGTVDDR  
LNWAFNLYDLNKDGCITKEEMLDIMKSIYDMMGKYTYPALREEAPREHVESFFQKMDRNK  
DGVVTIEEFIESCQKDENIMRSMQLFDNVI

>sp|Q99712|KCJ15\_HUMAN ATP-sensitive inward rectifier potassium channel 15 OS=Homo  
sapiens GN=KCNJ15 PE=1 SV=2

MDAIHIGMSSTPLVKHTAGAGLKANRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVID  
MKWRYKLTIFAATFVMTWFLFGVIYYAIAFIHGDLPEGEPISNHTPCIMKVDSLGAFLF  
SLESQTTIGYGVRSITECPHAIFLLVAQLVITTLIEIFITGTFLAKIARPKKRAETIKF  
SHCAVITKQNGKLCVIVQVANMRKSLLIQCQLSGKLLQTHVTKEGERILLNQATVKFHVD  
SSSESPFLILPMTFYHVLDETSPLRDLTPQNLKEKEFELVLLNATVESTSAVCQSRTSY  
IPEEIYWGFVFPVVSLSKNGKYVADFSQFEQIRKSPDCTFYCADSEKQQLEEKYRQEDQ  
RERELRTLLLQQSNV

>sp|Q16558|KCMB1\_HUMAN Calcium-activated potassium channel subunit beta-1 OS=Homo sapiens  
GN=KCNMB1 PE=1 SV=5

MVKKLVMAQKRGETRALCLGVTMVCAVITYYILVTTVLPLYQKSVWTQESKCHLIETNI  
RDQEELKGKKVPQYPCLVVNVSAAGRWAFLYHTEDTRDQNNQCSYIPGSVDNYQTARADV  
EKVRAKFEQQVFYCFSAAPRGNETSVLFRQLYGPQALLFSLFWPTFLLTGGLLIAMVKS  
NQYLSILAAQK

>sp|A8MYU2|KCNU1\_HUMAN Potassium channel subfamily U member 1 OS=Homo sapiens GN=KCNU1  
PE=1 SV=2

MFQTKLRNETWEDLPKMSCTTEIQAAFILSSFVTFFSGLIILLIFRLIWRSVKKWQIIKG  
TGIILELFTSGTIARSHVRSLEHFGQFRDHIEMLLSAQTFVGQVLVILVFVLSIGSLIY  
FINSADPVGSCSSYEDKTIPIDLVFNAFFSFYFGLRFMAADDKIKFWLEMNSIVDIFTIP  
PTFISYLLKSNWGLRFLRALRLELPQILQILRAIKTSNSVKFSKLLSIILSTWFTAAG  
FIHLVENSQDPWLKGRNSQNI SYFESIYLMATTSTVGFGDVVAKTSLGRTFIMFFTLGS  
LILFANYIPEMVELFANKRKYTSSYEALGKKFIVVCGNITVDSVTAFLRNFLRDKSGEI  
NTEIVFLGETPPSLELETIFKCYLAYTTFISGSAMKWEDLRRVAVESAEACLIIANPLCS  
DSHAEDISNIMRVLSIKNYDSTTRIIQILQSHNKVYLPKIPSWNWDGDNIIICFAELKL  
GFIAQGCLVPGLCTFLTSLFVEQNKKVMKQTWKKHFLNSMKNKILTQRLSDDFAGMSFP  
EVARLCFLKMHLIIAIEYKSLFTDGFCLILNPPPQVRIRKNTLGFFIAETPKDVRRAL  
FYCSVCHDDVFIPELITNCGCKSRSRQHITVPSVKRMKKCLKGISSRISGQDSPPRVSAS  
TSSISNFTTRTLQHDVEQSDQLDSSGMFWCKPTSLDKVTLKRTGSKYKFRNHIVACV  
FGDAHSAPMGLRNFVMPLRASNYTRKELDIVFIGSLDYLQREWRFLWNFPQIYILPGCA  
LYSGDLHAANIEQCSMAVLSPPPQPSSNQTLVDTEAIMATLTIGSLQIDSSSDPSPSVS  
EETPGYTNGHNEKSNCRKVPILTELKNPSNIHFIEQLGGLEGSLQETNLHLSTAFSTGTV  
FSGSFLDSSLATAFYNYHVLELLQMLVTGGVSSQLEQHLDKDKVYGVADCTSLLSGRNR  
CKLGLLSLHETILSDVNPRNTFGQLFCGSLDLFGILCVGLYRIIDEEELNPENKRFVITR  
PANEFKLLPSDLVFAIPFSTACYKRNEEFSLQKSYEIVNKASQTTETHSDTNCPTIDS  
VTETLYSPVYSYQPRNTSLSPFKQIAWNQSRTNSIISSQIPLGDNAKENERKTSDEVYDE  
DPFAYSEPL

>sp|Q6PIU1|KCNV1\_HUMAN Potassium voltage-gated channel subfamily V member 1 OS=Homo  
sapiens GN=KCNV1 PE=1 SV=2

MPSSGRALLDSPLDSSGLTSLDSSVFCSEGEPLALGDCFTVNVGGSRFVLSQQALSCF  
PHTRLGKLAVVVASYRRPGALAAVPSPLELCDDANPVDNEYFFDRSSQAFRYVLHYRTG  
RLHVMEQLCALSLQEIQYWGIDELSIDCCRDYFRRKELSETLDFKKDTEQESQHE  
EQDFSQGPCPTVRQKLWNILEKPGSSAARIFGVISIIFVVVSIINMALMSAELSWLDLQ  
LLEILEYVCISWFTGEFVLRFLCVRDRCRFLRKVPNIIDLLAILPFYITLLVESLSGSQT  
TQELENVGRIVQVLRLLRALRMLKLGRHSTGLRSLGMTITQCYEEVGLLLLFLSVGISIF  
STVEYFAEQSIPDTTFTSVPCAWWWATTSMTTVGYGDIRPDTTTGKIVAFMCILSGILVL

ALPIAIINDRFSACYFTLKLKEAAVRQREALKKLTKNIATDSYISVNLRDVYARSIMEML  
RLKGRERASTRSSGGDDFWF

>sp|Q8NC69|KCTD6\_HUMAN BTB/POZ domain-containing protein KCTD6 OS=Homo sapiens GN=KCTD6  
PE=1 SV=2

MDNGDWGYMMTDPVTNLVGGHLYTTSLTTLTRYPD SMLGAMFGGDFPTARDPQGNFYFIDR  
DGPLFRYVLNFLRTSELTLPLDFKEFDLLRKEADFYQIEPLIQCLNDPKPLYPMDTFEEV  
VELSSTRKLSKYSNPVAVIITQLTITTKVHSLLEGISNYFTKWNKHMMDTRDCQVSFTFG  
PCDYHQEVSLRVHLM EYITKQGFTIRNTRVHHMSERANENTVEHNWTFCRLARKTDD

>sp|P30085|KCY\_HUMAN UMP-CMP kinase OS=Homo sapiens GN=CMPK1 PE=1 SV=3

MKPLVVFVLGGPGAGKGTQCARIVEKYGYTHLSAGELLRDERKNPDSQYGELIEKYIKEG  
KIVPVEITISLLKREMDQMAANAQKNKFLIDGFPRNQDNLQGWNTMDGKADVSVLFF  
DCNNEICIERCLERKGSSGRSDDNRESLEKRIQTYLQSTKPIIDL YEEMGKVKKIDASKS  
VDEVFDEVVQIFDKEG

>sp|Q8NAX2|KDF1\_HUMAN Keratinocyte differentiation factor 1 OS=Homo sapiens GN=KDF1 PE=2  
SV=2

MPRPGHPRPASGPPRLGPWERPTLCLETYDKPPQPPSRRTRRPDKDPGHHGPESITF  
ISGSAEPAL ESPTCCLLWRPWWEWCRAAF CFRRCRDCLQRCGACVRGCSPCLSTEDSTE  
GTAEANWAKEHNGVPPSPDRAPPSRRDGRLKSTMGSSFSYPDVKLKGPVYPYPRATSP  
APDADSCCKEPLADPPPMRHSLPSTFASSPRGSEEEYYSFHESDLDP EMGSGSMSSREID  
VLIFKKLT ELSVHQIDELAKCTSDTVFLEKTSKISDLISSITQDYHLDEQDAEGRVLRG  
IIRISTRKSRARPQTSEGRSTRAAAPTAAPDSGHETMVGSGLSQDELTVQISQETTADA  
IARKLRPYGAPGYPASHDSSFQGTDTDSSGAPLLQVYC

>sp|Q9Y2K7|KDM2A\_HUMAN Lysine-specific demethylase 2A OS=Homo sapiens GN=KDM2A PE=1 SV=3

MEPEEERIRYSQRLRGTMRRYEDDGISDDEIEGKRTFDLEEKLHTNKYNANFVTFMEGK  
DFNVEYIQRGGLRDPLIFKNSDGLGIKMPDPDFTVNDVKMCVGSRRMVDVMDVNTQKGIE  
MTMAQWTRYETPEEEREKLYNVISLEFSHTRL ENMVQRPSTVDFIDWVDNMWPRHLKES  
QTESTNAILEMQYPKVQKYCLMSVRGCYTD FHVDFGGTSVWYHIHQGGKVFWLIPPTAHN  
LELYENWLLSGKQGDIFLGDVSDCQRIELKQGYTFVIPSGWIHAVYTPTDTLVFGGNFL  
HSFNIPMQLKIYNIEDRTRVPNKF RYFPFYEMCWYVLERYVYCITNRSHLTKEFQKESLS  
MDLELNGLESGNGDEEAVDREPRRLSSRRSVLTSPVANGVNLDYDGLGKTCRSLPSLKKT  
LAGDSSSDCSRGSHNGQVWDPQCAPRKDRQVHLTHFELEGLRCLVDKLESLPLHKKCVPT  
GIEDEDALIADVKILLEELANS DPKLALTGVPIVQWPKRDKLKFPTRPKVRVPTIPITKP  
HTMKPAPRLTPVRPAAASPIVSGARRRRVRCRKCKACVQGE CGVCHYCRDMKKFGGPGRM  
KQSCVLRQCLAPRLPHSVTCSLCGEVDQNEETQDFEKKLMECCICNEIVHPGCLQMDGEG  
LLNEELPNCWECPKCYQEDSSEKAQKRKM EESDEEAVQAKVLRPLRSCDEPLTPPHSPT  
SMLQLIHD PVSPRGMVTRSSPGAGPSDHHSASRDERFKRRQLRLQATERTMVREKENNP  
SGKKELSEVEKAKIRGSYLT VTLQRPTKELHGTSIVPKLQAITASSANLRHSPRVLVQHC  
PARTPQRGDEEGLGEEEEEEEEEEEDS AEEGGAARLN GRGSWAQDGDESWMQREVWMS  
VFRYLSRRELCECMRVCKT WYKCCDKRLWTKIDLSRCKAIVPQALSGIIKRQPVSLDLS  
WTNISKKQLTWLVNRLPGLKDLLAGCSWSAVSALSTSSCPLLRTDLRWAVGIKDPQIR  
DLLTPPADKPGQDNRSKLRNMTDFRLAGLDITD ATLRLLIIRHMPLLSRDL SHCSHLTDQ  
SSNLLTAVGSSTRYSLTELNMAGCNKLT DQTLIYLRRIANVTLIDLRGCKQITRKACEHF  
ISDLSINSLYCLSDEKLIQKIS

>sp|B2RXH2|KDM4E\_HUMAN Lysine-specific demethylase 4E OS=Homo sapiens GN=KDM4E PE=1 SV=1

MKSVHSSPQNTSHTIMTFYPTMEEFADFNTYVAYMESQGAHQAGLAKVIPPEKWKARQMY  
DDIEDIL IATPLQQVTSGGGVFTQYHKKKKAMRVGQYRR LANSKKYQTPPHQNFADLEQ  
RYWKSHPGNPPIYGADISGSLFEESTKQWNLGHLGTILDLEQECGVVIEGVNTPYLYFG  
MWKTTFAWHTEDMDLYSINYLHFGEPKTWYVVPPEHGQHLERLARELFPDISRGCEAF LR  
HKVALISPTVLKENGIPFNCMTQEAGEFMVTFPYGYHAGFNHGFNCAEAINFATPRWIDY  
GKMASQCSCGESTVTFSMDFVRIVQPESYELWKHRQDLAIVEHTEPRVAESQELSNWRD  
DIVLRR AALGLRLLPNLTAQCPTQPVS SGHCYNPKGCGTDAVPGSAFQSSAYHTQTQSLT  
LGMSARVLLPSTGSWGSGRGRGRGQGGRGCSRGRGHGCCTRELGT EEP TVQPASKRRLL  
MGTRSRAQGH RPQLPLANDLMTNLSL

>sp|Q5JSQ8|KHDCL\_HUMAN Putative KHDCl-like protein OS=Homo sapiens GN=KHDCl PE=5 SV=1  
MAVGTSALSKEPWWTL PENFHSPMV FHM EEDQEELIFGLDDTYLR CIELHSHTLIQLERC  
FTATGQTRVTVVGPPMAKQWLLMFHCVGSQDSKCHARGLKMLERVRSQPLTNDDLVT SV  
SLPPYTG D

>sp|P29622|KAIN\_HUMAN Kallistatin OS=Homo sapiens GN=SERPINA4 PE=1 SV=3  
MHLIDYLLLLLVGLLALSHGQLHVEHDGESCSNSSHQI LETGEGSPSLKIAPANADFAF  
RFYYLIASETPGKNIFFSPLSISAAYAMLSLGACSHSR SQILEGLGFNLTESESDVHRG  
FQHLLHTLNLPGHLETRVGSALFLSHNLKFLAKFLNDTMAVYEAKLFHTNFYD TVGTIQ  
LINDHVKKETRGI VDLVSELKKDVLMLVNYIYFKALWEKPFISSRTPKDFYVDENTT  
VRVPMMLQDQEHHWYLH DRYLPCSVLRMDYKGDATVFFILPNQGMREIEEVLTPEMLMR  
WNNLLRKRNFYK KLELHLPKFSISGSYVLDQILPRLGFTDLFSKWADLSGITKQKLEAS  
KSFHKATLDVDEAGTEAAAATSFAIKFFSAQTNRHILRFNRPFLLVIFSTSTQSVLFLGK  
VVDPTKP

>sp|Q14678|KANK1\_HUMAN KN motif and ankyrin repeat domain-containing protein 1 OS=Homo sapiens GN=KANK1 PE=1 SV=3

MAHTTKVNGSASGKAGDILSGDQDKEQKDPYFVETPYGYQLD LDFLKYVDDIQKGNTIKR  
LNIQRRRKPSPVCP EPRTTSGQQGIWTSTESLSSNSDDNKQCPNFLIARSQVTSTPISK  
PPPPLETSLPFLTIPENRQLPPSPQLPKHNLHVTKTLMETRRRLEQERATMQMTPGEFR  
RPRLASFGGMGTTSSLSFVSGSNHNP AKHQLQNGYQNGDYGSYAPAAPTSSMGSSIR  
HSPLSSGISTPVTNVSPMHLQHIREQMAIALKRLKELEEQVRTIPVLQVKISVLQEEKRQ  
LVSQ LKNQRAASQINVC GVRKRSYSAGNASQLEQLSRARRSGGELYIDYEEEMETVEQS  
TQRIKEFRQLTADMQALEQKIQDSSCEASSELRENGECRSVAVGAENMNDIVVYHRGSR  
SCKDAAVGTLVEMRNCVSVTEAMLGVMTEADKEIELQQQTIESLKEKIYRLEVQLRETT  
HDREMTKLKQELQAAGSRKKVDKATMAQPLVFSKVVEAVVQTRDQMVGSHMDLVDTCVGT  
SVETNSVGISQCPECKNKVGP ELP MNWWIVKERVEMHDCAGRSVEMCDKSVSVEVSVC  
ETGSNTEESVNDLTLLKTNLNLKEVRSIGCGDCSVDVTVCSPEKASRGVNTEAVSQVEA  
AVMAVPRTADQDTSTDLEQVHQFTNTETATLIESCTNTCLSTLDKQTSTQTVETR TVAVG  
EGRVKDINSSTKTRSIGVGTLLSGHSGFDRPSAVKTKESGVGQININDNYLVGLKMRTIA  
CGPPQLTVGLTASRRSVGVGD DPVGESLENPQPQAPLGMTGLDHYIERIQKLLAEQQTL  
LAENYSELAEAFGEPHSQMGSLSQLISTLSSINSVMKSASTEELRNPDFQKTSLGKITG  
NYLGYTCKCGGLQSGSPLSSQTSQPEQEVGTSEGKPISSLDAFPTQEGT LSPVNLTD DQI  
AAGLYACTNNESTLKSIMKKKGDNKDSNGAKKNLQFVGINGGYETTSSDDSSSDESSSSE  
SDDECDVIEYPLEEEEEEEDEDTRGMAEGHHAVNIEGLKSARVEDEM VQEQEPEKVEIR  
ERYELSEKMLSACNLLKNTINDPKALTSKDMRFCLNTLQHEWFRVSSQKSAIPAMVGDI  
AAFEAISPDVLRVYINLADGNGNTALHYSVSHSNFEIVKLLLDADV CNVDHQNKAGYTP I

MLAALAAVEAEKDMRIVEELFGCGDVNAKASQAGQTALMLAVSHGRIDMVKGLLACGADV  
NIQDDEGSTALMCASEHGHVEIVKLLLAQPGCNGHLEDNDGSTALSIALEAGHKDIAVLL  
YAHVNFKAQSPGTPRLGRKTSPPGPTHRSFD

>sp|Q9H9L4|KANL2\_HUMAN KAT8 regulatory NSL complex subunit 2 OS=Homo sapiens GN=KANSL2  
PE=1 SV=3

MNRIRIHVLPTNRRITPVPRSQEPLSCAFTHRPCSHPRLEGQFECIKHILEDKNAPFKQ  
CSYISTKNGKRCNPAAKPEKKDGVSFCAEHVRRNALALHAQMKTNPVGPVGETLLCQLS  
SYAKTELGSQTPESSRSEASRILEDSDWSDEGEQEPITVDQTWRGDPDSEADSIDSDQEDP  
LKHAGVYTAEEVALIMREKLIRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSL  
LTGPEGLLAKERENLKRLKCLRRYRQRYGVEALLHRQLKERRMLATDGAQAHTTRSSQ  
RCLAFVDDVRCNSQLPMTRHCLTHICQDTNQVLFKCCQGSEEVPCNKPVPVSLSEDPCC  
PLHFQLPPQMYKPEQVLSVPDDLEAGPMDLYLSAAELQPTESLPLEFSDDLDDVVGDMQC  
PPSPLLFDPSLTLEDHLVKEIAEDPVDILGQMAGDGCRSQGSRNSEKASAPLSQSGLA  
TANGKPEPTSIS

>sp|P10644|KAPO\_HUMAN cAMP-dependent protein kinase type I-alpha regulatory subunit  
OS=Homo sapiens GN=PRKARIA PE=1 SV=1

MESGSTAASEEARSRLRECELYVQKHNIQALLKDSIVQLCTARPERPMAFLREYFERLEKE  
EAKQIQNLQKAGTRTDSREDEISPPPNPVVKGRRRRGAISAEVYTEEDAASYVRKVIPK  
DYKTMAALAKAIEKNVLFSLDDNERSDIFDAMFSVSFIAGETVIQQGDEGDNFYVIDQG  
ETDVYVNEWATSVGEGGSFGELALIYGTPRAATVKAKTNVKLWIDRDSYRRILMGSTL  
RKRKMYEEFLSKVSILESLDKWERLTVADALEPVQFEDGQKIVVQGEPGDEFFIILEGSA  
AVLQRRSENEEFVEVGRLGPSDYFGEIALLMNRPRAATVARGPLKCVKLDPRPRFERVLG  
PCSDILKRNIQQYNSFVLSLV

>sp|P22694|KAPCB\_HUMAN cAMP-dependent protein kinase catalytic subunit beta OS=Homo  
sapiens GN=PRKACB PE=1 SV=2

MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLTGTGSFGRVML  
VKHKATEQYYAMKILDKQKVVKLQKIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMV  
MEYVPGGEMFSLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDHQGY  
IQVTDGFGAKRVKGRTWTLCGTPEYLAPEIILSKGYNAVDWWALGVLIYEMAAGYPPFF  
ADQPIQIYEKIVSGKVRFPSPHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFAT  
TDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKAKEFGEF

>sp|Q92993|KAT5\_HUMAN Histone acetyltransferase KAT5 OS=Homo sapiens GN=KAT5 PE=1 SV=2

MAEVGEIIEGCRLPVLRRNQDNEDEWPLAEILSVKDISGRKLFYVHYIDFNKRLDEWVTH  
ERLDLKKIQFPKKEAKTPTKNGLPGSRPGSPEREVPASAQASGKTLPIPVQITLRFNLPK  
EREAIPGGEPDQPLSSSSCLQPNHRSTKRKVEVVPATPVPSETAPASVFPQNGAARRAV  
AAQPGRRKRSNCLGTDEDSQDSSDGIPSAPRMTGSLVSDRSHDDIVTRMKNIECIELGRH  
RLKPWFYSPYPQELTTLPLVYLCEFLKYGRSLKCLQRHLTKCDLRHPPGNEIYRKGTTIS  
FFEIDGRKNKSYSQNLCLLAKCFLDHKTLYYDTPFLFYVMTEYDCKGFHIVGYFSKEKE  
STEDYNVACILTLPPYQRRGYGKLLIEFSYELSKVEGKTGTPEKPLSDLGLLSYRSYWSQ  
TILEILMGLKSESGERPQITINEISEITSIKKEDVISTLQYLNINYYKGQYILTSEDI  
VDGHERAMLRLLRIDSKCLHFTPKDWSKRGKW

>sp|Q96I82|KAZD1\_HUMAN Kazal-type serine protease inhibitor domain-containing protein 1  
OS=Homo sapiens GN=KAZALD1 PE=1 SV=1

MLPPPRPAAALALPVLLLLLVLTTPPTGARPSPGPDYLRGWMRLLAEGEGCAPCRPEE

CAAPRGCLAGVRDAGCCWECANLEGQLCDLDPSAHFYGHCGEQLECRDLDGGDLRGE  
VPEPLCACRSQSPLCGSDGHTYSQICRLQEAAARAPDANLTVAHGPGCESGPQIVSHPYD  
TWNVTGGQDVIFGCEVFAYPMASIEWRKDGLDIQLPGDDPHISVQFRGGPQRFEVTGWLQI  
QAVRPSDEGTYRCLGRNALGQVEAPASLTVLTPDQLNSTGIPQLRSLNLVPEEEAESEEN  
DDYY

>sp|P48729|KC1A\_HUMAN Casein kinase I isoform alpha OS=Homo sapiens GN=CSNK1A1 PE=1 SV=2  
MASSSGSKAEFIVGGKYKLVRKIGSGSFGDIYLAINITNGEEVAVKLESQKARHPQLLYE  
SKLYKILQGGVGIPHIRWYGQEKDYNVLMDDLGPSLEDLNFCSRFTMKTVMMLADQM  
ISRIEYVHTKNFIHRDIKPDNFMGIGRHCNKLFLIDFGLAKKYRDNRTQHIPYREDKN  
LTGTARYASINAHLGIEQSRRDDMESLGYVLMYFNRTSLPWQGLKAATKKQKYEKISEKK  
MSTPVEVLCKGFPAEFAMLYNCRGLRFEEAPDYMRLRQLFRILFRTLNHQYDYTFDWTM  
LKQKAAQQAASSSGGQQAQTPTGKQTDKTKSNMKG

>sp|Q16322|KCA10\_HUMAN Potassium voltage-gated channel subfamily A member 10 OS=Homo sapiens GN=KCNA10 PE=1 SV=2  
MDVCGWKEMEVALVNFNSDEIQEEPGYATDFDSTSPKGRPGSSFSNGKILISESTNHE  
TAFSKLPGDYADPPGPEPVVLNEGNQRV I INIAGLRFETQLRTLSTQFPETLLGDREKRMQ  
FFDSMRNEYFFDRNRPSFDGILYYYSGGKIRRANVPIDIFADEISFYELGSEAMDQFR  
EDEGFIKDPETLLPTNDIHRQFWLLFEYPESSSAARAVAVSVLVVISITIFCLETLPE  
FREDRELKVVRDPNLNMSKTVLSQTMFTDPFFMVESTCIVWTFELVLRVVCPSKTDFF  
RNIMNIIDIISIIPYFATLITELVQETEPSAQQNMSLAILRIIRLVRFRIKLSRHSKG  
LQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEVDEPESHFSSIPDGFWAVVTMT  
TVGYGDMCPTTPGGKIVGTLCIAGVLTIALPVPVIVSNFNYFYHRETENEEKQNIPGEI  
ERILNSVGSRMGSTDSLNTNGGCSTESKR

>sp|Q8NB78|KDM1B\_HUMAN Lysine-specific histone demethylase 1B OS=Homo sapiens GN=KDM1B PE=1 SV=3  
MATPRGRTKKKASFDHSPDSLPLRSSGRQAKKKATETDDEDEDGGSEKKYRKCEKAGCTA  
TCPVCFASASERCAKNGYTSRWYHLSCGEHFCNECFDHYRSHKDGDKYTTWKKIWTN  
GKTEPSPKAFMADQQLPYWVQCTKPECRKWRQLTKEIQLTPQIAKTYRCGMKPNTAIKPE  
TSDHCSLPEDLRVLEVSNNHWWYSMLILPPLLKDSVAAPLLSAYYPDCVGMSPSCTSTNRA  
AATGNASPGKLEHKAALSVHVPGMNRYFQPFYQPNCEGKALCVRPDMELDELYEFPEY  
SRDPTMYLALRNILALWYTNCKEALTPQKCIPIHIVRGLVRIRCVQEVERILYFMTRKG  
LINTGVLVSGADQYLLPKDYHNKSVIIIGAGPAGLAAARQLHNFGIKVTVLEAKDRIGGR  
VWDDKSFKGVTVGRGAQIVNGCINNPVALMCEQLGISMHKFGERCGLIQEGGRITDPTID  
KRMDHFHFNALLDVVSEWRKDKTQLQDVPLGEKIEEIKAFIKESGIQFSELEGQVLQFHL  
SNLEYACGSNLHQVSARSWDHNEFFAQFAGDHTLLTPGYSVIEKLAEGLDIQLKSPVQC  
IDYSGDEVQVTTTDTGTGYSQKVLVTVPLALLQKGAIQFNPLSEKKMKAINSLGAGIIE  
KIALQFPYRFWDSKVQGADFFGHVPPSASKRGLFAVFYMDPQKKHSLMSVIAGEAVAS  
VRTLDDKQVLQQCMATLRELKFEQVDPPTKYFVTRWSTDPWIQMAYSFVKTTGGSGEAYD  
IIAEDIQGTVFFAGEATNRHFPQTVTGAYLSGVREASKIAAF

>sp|Q9Y4C1|KDM3A\_HUMAN Lysine-specific demethylase 3A OS=Homo sapiens GN=KDM3A PE=1 SV=4  
MVLTLGESWPVLVGRRFLSLAADGSDGSHDSWDVERVAEWPWLSGTIRAVSHTDVTKKD  
LKVCVEFDGESWRKRRWIEVYSLLRRAFLVEHNLVLAERKSPEISERIVQWPAITYKPLL  
DKAGLSITSVRFLGDQQRVFLSKDLLKPIQDVNSLRSLTDNQIVSKEFQALIVKHLDE  
SHLLKGDKNLVGSEVKIYSLDPSTQWFSATVINGNPASKTLQVNCEEIPALKIVDPSLIH



VEVVDNLVTCGNSARIGAVKRKSSENNGLTVSKQAKSCSEASPSMCPVQSVPTTVFKEI  
LLGCTAATPPSKDPRQQSTPQAANSPPNLGAKIPQGCHKQSLPEEISSCLNTKSEALRTK  
PDVCKAGLLSKSSQIGTGDLKILTEPKGSCSQPKTNTDQENRLESVPQALTGLPKECLPT  
KASSKAELIAPANPELQKHLEHAPSPSDVSNAPVKGAVNSDSPNNCSGKKVEPSALACR  
SQNLKESSVKVDNESCCSRSNKIQNAPSRKSVLTDPAKLKKLQQSGEAFVQDDSCVNIV  
AQLPKCRECRDLSLRKDKEQQKDSPVFCRFFHFRRLLQFNKHGVLRLVEGFLLTPNKYDNEAI  
GLWLPLTKNVVGIDLD TAKYILANIGDHFCQMVI SEKEAMSTIEPHRQVAWKRAVKGVRE  
MCDVCDTTIFNLHWVCPRCGFVCVDCYRMKRKNCQQGAAYKTF SWLKCVKSQIHEPENL  
MPTQIIIPGKALYDVGDIVHSVRAKWGIKANCPCSNRQFKLFSKPASKEDLKQTSLAGEKP  
TLGAVLQQNPSVLEPAAVGGEAASKPAGSMKPACPASTSPLNWLADLTSGNVNKENKEKQ  
PTMPI LKNEIKCLPPLPPLSKSSVTLHTFNSTILTPVSNNNSGFLRNLLNSSTGKTENGL  
KNTPKILDDIFASLVQNKTTSDLSKR PQGLTIKPSILGFDTPHYWLCDNRLLCLQDPNNK  
SNWNVFRECWKQGQPV MVSGVHHKL NSELWKPE SFRKEFG EQEVDLVNCR TNEIITGATV  
GDFWDGFEDVPNRLKNEKEPMVLKLDWPPGEDFRDMMPSRFDDL MANIPLPEYTRRDGK  
LNLASRLPNYFVRPDLGPKMYNAYGLITPEDRKYGTTNLHLDVSDAANVMVYVGIPKGQC  
EQEEVLKTIQDGSDELTIKRFIEGKEKPGALWHIYAAKDTEKIREFLKKVSEEQGGQEN  
PADHDP IHDQSWYLDRLSRKRLHQEYGVQGWAI VQFLGDVVFIPAGAPHQVHNL YSICKV  
AEDFVSPEHV KHCFLWTQEFRYLSQTHTNHEDKLQVKNVIYHAVKDAVAMLKASESSFGK  
P

>sp|Q6B0I6|KDM4D\_HUMAN Lysine-specific demethylase 4D OS=Homo sapiens GN=KDM4D PE=1 SV=3

METMKSKANCAQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWKAR  
ETYDNISEIL IATPLQQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFED  
LERKYWNRIYNSPIYGADISGSLFDENTKQWNLGHLGTIQDLLEKECGVVI EGVNTPYL  
YFGMWKTTFAWHTEDMDLYSINYLHLGEPKTWYVVPPEHGGRLERLARELFPGSSRGCGA  
FLRHKVALISPTVLKENGIPFNRI TQEAGEFMVTFPYGYHAGFNHGFNCAEAINFATPRW  
IDYGMASQCSCGEARVTF SMDAFVRILQPERYDLWKRGGDRAVVDHMEPRVPASQELST  
QKEVQLPRRAALGLRQLPSHWAHSPWPMAARSGTRCHTLVCSSLPRRS AVSGTATQPRA  
AAVHSSKKPSSTPSSTPGPSAQI IHPSNGRRGRGRPPQKLRAQELTLQTPAKRPLLAGTT  
CTASGPEPEPLPEDGALMDKPVPLSPGLQHVPKASGC SWAPVP

>sp|P29375|KDM5A\_HUMAN Lysine-specific demethylase 5A OS=Homo sapiens GN=KDM5A PE=1 SV=3

MAGVGGPGGYAAEFVPPPECPVFEPFSWEEFTDPLSFIGRIRPLAECTGICKIRPPKDWQPP  
FACEVKSFRFTPRVQRLNELEAMTRVRLDFLDQLAKFWELQGSTL KIPVVERKILDLYAL  
SKIVASKGGFEMVTEKKWSKVGSR LGYLPKGKGTGSLKSHYERILYPYELFQSGVSLMG  
VQMPNLDLKEKVEPEVLSTDTQTSPEPGTRMNILPKRTRRVKTSSES GDVSRNTE LKKLQ  
IFGAGPKVVGLAMGTDKDEVT RRRKVTNRSDAFNMQMRQKGTLSVNFVDLYVCMFCG  
RGNNEDKLLLCDGCDDSYHTFCLIPPLPDVPKGDWRC PKVAEECSKPREAFGFEQAVRE  
YTLQSGFEMADNFKSDYFNMPVHMVPTELVEKEFWRLVSSIEEDVIVEYGADISSKDFGS  
GFPVKDGRRKILPEEEYALSGWNLNMPVLEQSVLAHINVDISGMKVPWLYVGMCFSSF  
CWHIEDHWSYSINYLHWGEPKTWYGVPSHAAEQLEEV MRELAPELFESQPDLLHQLVTIM  
NPNVLMEHGVPVYRTNQ CAGEFVVTFPRA YHSGFNQGYNFAEAVNFCTADWLPIGRQCVN  
HYRRLRRHCVFSHEELIFKMAADPECLDVGLAAMVCKELTLMTEETRLRESVVMGVLM  
SEEEVFELVPDDERQCSACRTTCFLSALTCSNPERLVCLYHPTDLCPCPMQKKCLRYRY  
PLEDLPSLLYGVKVRAQSYDTWVS RVTEALSANFNHKKDLIELRVMLEDAEDRKYPENDL  
FRKL RDAVKEAETCASVAQLLLSKKQKHRQSPDSGRTRTKLTVEELKAFVQQLFSLPCVI

SQARQVKNLLDDVEEFHERAQEAMMDETPDSSKLQMLIDMGSSLYVELPELPRLKQELQQ  
ARWLDEVRLTSDPQQVTLDMKKLIDSGVGLAPHHAVEKAMAELQELLTVSERWEEKAK  
VCLQARPRHSVASLESIVNEAKNIPAFLPNVLSLKEALQKAREWTAKVEAIQSGSNYAYL  
EQLESLSAKGRPIPVREALPQVESQVAAARAWRERTGRFTLKKNSSHTLLQVLSPRTDI  
GVYSGGKNRRKKVKELIEKEKEKDLLEPLSDLEEGLEETRDAMVVAVFKEREQKEIEA  
MHSRAANLAKMTMVDRIEEVKFCICRKTASGFMLQCELCCKDFHNSCVPLPKSSSQKKG  
SSWQAKEVKFLCPLCMRSRRPRLETILSLLVSLQKLPVRLPEGEALQCLTERAMSWQDRA  
RQALATDELSSALAKLSVLSQRMVEQAAREKTEKII SAELQKAAANPDLQGHLPSPFQQA  
FNRVSSVSSSPRQTMQDYDDEETSDDEDIRETYGYDMKDTASVSSSSLEPNLFCDEEIP  
IKSEEVVTHMWTAPSFCAEHAYSSASKSCSQGSSTPRKQPRKSPLVPRSLEPPVLELSPG  
AKAQLEELMMVGDLEVSLEDETQHIWRILQATHPPSEDRLHIMEDDSMEEKPLKVKGKD  
SSEKKRKRKLEKVEQLFGEGKQKSKELKKMDKPRKKKLKLGADKSKELNKLAKKLAKKEE  
RKKKKEKAAAACVVELVKESTEKKREKKVLDIPSKYDWSGAEESDDENAVCAAQNCQRPCK  
DKVDWVQCDGGCDEWFHQVCVGVSPEMAENEDYICINCAKKQGPVSPGPAPPPSFIMSYK  
LPMEDLKETS

>sp|Q9UGL1|KDM5B\_HUMAN Lysine-specific demethylase 5B OS=Homo sapiens GN=KDM5B PE=1 SV=3

MEAATLHPGPRPALPLGGPGPLGEFLPPPECPVFEPSSWEFADPFAFIHKIRPIAEQTG  
ICKVRPPPDWQPPFACDVKLHFTPRIQRLNELEAQTRVKLNFLDQIAKYWELQGSLTKI  
PHVERKILDLFQNLKVAEEGGFAVVCCKDRKWTKIATKMGFAPGKAVGSHIRGHYERILN  
PYNLFLSGDSLRLCLQKPNLTDTKDKEYKPHDIPQRQSVQPSETCPPARRAKRMRAEAMN  
IKIEPEETTEARTHNLRRRMGCPTPKCENEKEMKSSIKQEPIERKDYIVENEKEKPKSRS  
KKATNAVDLYVCLLCGSGNDEDRLLLCDGCDDSYHTFCLIPPLHDVPKGDWRCPKCLAE  
CSKPQEAFGFEQAARDYTLRTFGEMADAFKSDYFNMPVHVMPTLVEKEFWRLVSTIEED  
VTVEYGADIASKEFGSGFPVRDGIKLSPEEEEEYLDGWNLNMPVMEQSVLAHITADIC  
GMKLPWLYVGMCFSSFCWHIEDHWSYSINYLHWGPKTWYGVPGYAAEQLENVMKLAPE  
LFVSQPDLLHQLVTIMNPNTLMTHEVPVYRTNQCAGEFVITFPRAHSGFNQGFNFAEAV  
NFCTVDWLPLGRQCVEHYRLLHRYCVFSDHEMICKMASKADVLDVVVASTVQKDMAIMIE  
DEKALRETVRKLGVIDSERMDFELLPPDDERQCVKCKTTCFMSAISCCKPGLLVCLHHVK  
ELCSCPPYKYKLRYRYTLDDLPMNALKLRAESYNEWALNVNEALEAKINKKSLVSFK  
ALIEESEMKKFPDNDLLRHLRLVTQDAEKCASVAQQLNGKRQTRYRSGGKSQNQLTVN  
ELRQFVTQLYALPCVLSQTPLLKDLLNRVEDFQQHSQKLLSEETPSAAELQDLLDVSFEE  
DVELPQLAEMRIRLEQARWLEEVQQAACLDPSSLTDDMRRLIDLGVGLAPYSAVEKAMAR  
LQELLTVSEHWDDKAKSLKARPRHSLNSLATAVKEIEEIPAYLPNGAALKDSVQRARDW  
LQDVEGLQAGGRVPVLDLIELVTRGRSIPVHLNSLPRLETLVAEVQAWKECAVNTFLTE  
NSPYSLLEVLCPRCDIGLLGLKQKQKLEPLNGKKKSTKLESLSDLERALTESKETAS  
AMATLGEARLREMEALQSLRLANEGKLLSPLQDVDIKICLCQKAPAAPMIQCELCRDAFH  
TSCVAVPSISQGLRIWLCPHCRREKPPLEKILPLLASLQRIRVRLPEGDALRYMIERTV  
NWQHRAQQLLSSGNLKFVQDRVSGLLYSRWQASAGQVSDTNKVSQPPGTTSFSLPDDWD  
NRTSYLHSPFSTGRSCIPLHGVSPVNEELLMEAQLQVSLPEIQELYQTLLAKPSPAQQT  
DRSSPVRPSSEKNDCCRGRKRDGINSLERKLRRLEREGLSSERWERVKKMRTPKKKKIKL  
SHPKDMNFKLERERSYELVRSATHSLPSDTSYSEQEDEDIDAICPAVSCLQPEGDEV  
DWVQCDGSCNQWFHQVCVGVSPEMAEEKEDYICVRCTVKDAPSRK

>sp|Q06136|KDSR\_HUMAN 3-ketodihydrosphingosine reductase OS=Homo sapiens GN=KDSR PE=1  
SV=1

MLLLAAAFVLVAFVLLLYMVSP LISPKPLALPGAHVVTGGSSGIGKCIATIECYKQGAFIT  
LVARNEDKLLQAKKEIEMHSINDKQVVLCSVDVSQDYNQVENVIKQAQEKLGPDMLVN  
CAGMAVSGKFEDLEVSTFERLMSINYLGSVYPSRAVITTMKERRVGRIVFVSSQAGQLGL  
FGFTAYSASKFAIRGLAEALQMEVKPYNVYITVAYPPDTPGFAEENRTKPLETRLISE  
TTSVCKPEQVAKQIVKDAIQGNFNSSLGSDGYMLSALTTCGMAPVTSITEGLQQVVTMGLF  
RTIALFYLGSDFSIVRRRCMMQREKSENADKTA

>sp|Q14145|KEAP1\_HUMAN Kelch-like ECH-associated protein 1 OS=Homo sapiens GN=KEAP1 PE=1 SV=2

MQPDRPSGAGACCRFLPLQSQCEGAGDAVMYASTECKAEVTPSQHGNRTFSYTLLEDHT  
KQAFGIMNELRLSQQLCDVTLQVKYQDAPAAQFMAHKVVLASSSPVFKAMFTNGLREQGM  
EVVSIIEGIHPKVMERLIEFAYTASISMGEKCVLHVMNGAVMYQIDSVVRACSDFLVQQLD  
PSNAIGIANFAEQIGCVELHQRAREYIYMHFGEVAKQEEFFNLSHCQLVTLISRDDLNV  
CESEVFHACINWVKYDCEQRRFYVQALLRAVRCHSLTPNFLQMLQKCEILQSDSRCKDY  
LVKIFEELTLHKPTQVMPCRAPKVGRLIYTAGGYFRQSLSYLEAYNPSDGTWLRDLQV  
PRSLAGCVVGGLLYAVGGRNNSPDGNTDSSALDCYNMTNQWSPCAPMSVPRNRIGVGV  
IDGHIYAVGGSHGCIHHNSVERYEPERDEWHLVAPMLTRRIGVGVAVLNRLLYAVGGFDG  
TNRLNSAECYPERNEWMITAMNTIRSGAGVCVLHNCIYAAGGYDGGDQLNSVERYDVE  
TETWTFVAPMKHRRSALGITVHQGRIYVLGGYDGHFTFLDSVECYDPDPTDWSEVTRMTSG  
RSGVGVAVTMEPCRKQIDQQNCTC

>sp|O60938|KERA\_HUMAN Keratocan OS=Homo sapiens GN=KERA PE=1 SV=1

MAGTICFIMWVLFITDTVWSRSVRQVYEVHDSDDWTIHDCECPMECFPPSFPTALYCEN  
RGLKEIPAIPSRIWYLYLQNNLIETIPEKPFENATQLRWINLNKNKITNYGIEKGALSQ  
KKLLFLFLEDNEEVPSPPLRSLEQLQLARNKVSRI PQGTFNLENLTLLDLQNNKLVD  
NAFQRDTFKGLKNLMQLNMAKNALRNMPRLPANTMQLFLDNNSIEGIPENYFNVIPKVA  
FLRLNHNKLSDEGLPSRGFDVSSILDLQLSHNQLTKVPRISAHQLHLHLDHNKIKSVNVS  
VICPSPSMLPAERDSFSYGPLRLYLRDLGNEIKPPIPMALMTCFRLQAVII

>sp|P50053|KHK\_HUMAN Ketohexokinase OS=Homo sapiens GN=KHK PE=1 SV=2

MEEKQILCVGLVLDVLSLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFM  
GSMAPGHVADFLVADFRRRGVDVSQVAWQSKGDT PSSCCIINNSNGNRTIVLHDTSLPDV  
SATDFEKVDLTQFKWIIIEGRNASEQVKMLQRIDAHNTRQPPEQKIRVSVEVEKPREELF  
QLFGYGDVVFVSKDVAHLGFSAAEALRGLYGRVRKGAVLVCWAEEGADALGPDGKLL  
HSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

>sp|Q8TBQ9|KISHA\_HUMAN Protein kish-A OS=Homo sapiens GN=TMEM167A PE=1 SV=1

MSAIFNFQSLTVILLICTCAYIRSLAPSLDRNKTGLLGIFWKCARIGERKSPYVAVC  
CIVMAFSILFIQ

>sp|O00142|KITM\_HUMAN Thymidine kinase 2, mitochondrial OS=Homo sapiens GN=TK2 PE=1 SV=4

MLLWPLRGWAARALRCFGPGSRGSPASGPGPRRVQRRAWPPDKEQEKEKKSVICVEGNIA  
SGKTTCLEFFSNATDVEVLTEPVSKWRNVRGHNPLGLMYHDASRWGLTLQTYVQLTMLDR  
HTRPQVSSVRLMERSIHSARYIFVENLYRSGKMPVDYVVLSEWFDWILRNMDVSVDLIV  
YLRTNPETCYQLKKRCREEEKVIPLEYLEATHHLHEEWLIKGSFPMAAPVLVIEADHH  
MERMLELFEQNRDRILTPENRKHCP

>sp|Q8NEE0|KLAS1\_HUMAN Putative uncharacterized protein KLHL30-AS1 OS=Homo sapiens  
GN=KLHL30-AS1 PE=5 SV=1

MCLRSHFKVAFTQRKVELSKELRRSRSSRNGLPLQEQPMGQKWGWHRGEPGHPMEELN

EWPQNGDHWSRKWPPPCAFTPG

>sp|Q6PID8|KLD10\_HUMAN Kelch domain-containing protein 10 OS=Homo sapiens GN=KLHDC10 PE=1 SV=1

MSAAQGWDRNRRRGGGAAGAGGGSGAGGGSGGSGRGTGQLNRFVQLSGRPHLPGKKKI  
RWDPVRRRFIQSCPIIRIPNRFRLGHRPPPARSGHRCVADNTNLYVFGGYNPDYDESGGP  
DNEDYPLFRELWRYHFATGVVHQMGTDGYMPRELASMSLVLHGNNLLVFGGTGIPFGESN  
GNDVHVCNVKYKRWALLSCRGGKPSRIYQGAMAIINGSLYVFGGTTGYIYSTDLHKLDLN  
TREWTQLKPNLSCDLP EERYRHEIAHDGQRIYILGGGTSWTAYSLNKIHAYNLETNAWE  
EIA TKPHEKIGFPAARRCHSCVQIKNDVFICGGYNGEVILGDIWKLNLQTFQWVKLPATM  
PEPVYFHCAAVTPAGCMYIHGGVVNIHENKRTGSLFKIWLVP SLELAWEKLLAAFPNL  
ANLSRTQLLHLGLTQGLIERLK

>sp|Q8TBB5|KLDC4\_HUMAN Kelch domain-containing protein 4 OS=Homo sapiens GN=KLHDC4 PE=1 SV=1

MGKKGKKEKKGRGAEKTAAKMEKKVSKRSRKEEDLEALIAHFQTLDAKRTQTVELPCPP  
PSPRLNASLSVHPEKDELILFGGEYFNGQKTFLYNELYVYNTRKDTWTKVDIPSPPPRRC  
AHQAVVVPQGGGQLWVFGGEFASPNGEQFYHYKDLWVLHLATKTWEQVKSTGGPSGRSGH  
RMVAWKRQLILFGGFHESTRDYIYYNDVYAFNLDFTWSKLSPSGTGPTPRSGCQMSVTP  
QGGIVVYGGYSKQRVKKDVKTRHSDMFLKPEDGREDKVWVTRMNP SGVKPTPRSGFS  
VAMAPNHQTLFFGGVCDEEEEEESLSGEFFNDLYFYDATRNRFEGQLKGP KSEKKRRRG  
RKEEPEGGRPACGGAGTQGPVQLVKEVVAEDGTVVTIKQVLTAPGSAGQPRSEDEDSLE  
EAGSPAPGPCPRSNAMLAVKHGVLYVYGGMFEAGDRQVTLSDLHCLDLHRMEAWKALVEM  
DPETQEWLEETDSEEDSEEVEGAEGGVDD EDSGEESGAED

>sp|Q9Y664|KPTN\_HUMAN Kaptin OS=Homo sapiens GN=KPTN PE=1 SV=2

MMGEAAVAAGPCPLREDSFTRFSSQSNVYGLAGGAGGRGELLAATLKGV LGFYQDLRQ  
KIRPVAKELQFNYIPVDAEIVSIDTFNKSPPKRGLVVGITFIKDSGDKGSPFLNIYCDYE  
PGSEYNLDSIAQSCNLNLELQTFPQLCHAEVQVGDQLETVFLSGNDPAIHLYKENEG LH  
QFEEQPVENLFPELTNLTSVLWLDVHNFPGT SRRLSALGCQSGYVRVAHVDQRSREVLQ  
MWSVLQDGPISRIVFSLSAKETKDRPLQDEYSVLVASMLEPAVVYRDLLNRGLEDQLL  
LPGSDQFDSVLCSLVTDVLDGRPEVLVATYQGELLCYKYRGPE SGLPEAQHG FHLLWQR  
SFSSPLLAMAHVDLTGDGLQELAVVSLKGVHILQHSLIQASELV LTRLRHQVEQRRRLQ  
GLEDGAGAGPAEN AAS

>sp|P60412|KR10B\_HUMAN Keratin-associated protein 10-11 OS=Homo sapiens GN=KRTAP10-11 PE=1 SV=3

MAATMSVCSSAYSDSWQVDDCPESCCEPPCSAPSCCAPAPSLSLVCTPVSCVSSPCCQA  
ACEPSACQSGCTSSCTPSCCQSSCQPACCTSSPCQACCPVCC KTVCC KPVCCPVCC  
GAASSCCRQSSCQPACASSCQPACCPVCC KPVCCVSTCSEDSSSCCQSSCQPACCT  
SSSYQQACCPVCC KTVYCKPICCPVCSRASSSRCQQPSCQPACCTTSCCRPSSSVSLL  
CHPVC RSTCCPVSSCCAPTSSCQSSCCRPASCVSLLCRPASSRLACYS LCSGKKSSC

>sp|Q3LI70|KR196\_HUMAN Keratin-associated protein 19-6 OS=Homo sapiens GN=KRTAP19-6 PE=3 SV=2

MRYYGSYYRGLGYGCGGFGGLGYGCGGGYRYGSGYGGYRYGCCRPSCREGYGFSGFY

>sp|Q3LI63|KR201\_HUMAN Keratin-associated protein 20-1 OS=Homo sapiens GN=KRTAP20-1 PE=3 SV=1

MIYYSNYYGGYGYGGLGCGYGGYRGYGCGYGGYGGYGN GYYCPSCYGRYWSYGFY

>sp|Q3LI83|KR241\_HUMAN Keratin-associated protein 24-1 OS=Homo sapiens GN=KRTAP24-1 PE=2 SV=1

MPAGSMSTTGYPGV CSTTSYRTHCYIPVTSSVTLSSSDLSP TFGHCLPSSYQGNLWLLDY  
CQESYGEAPTCKSPSCEPKTCSTTGCDPSNSSVPCNSPSAGQVFSVCETTNVSPSPSCSP  
STQTNGYVCNCHI PTRNASKACQTLRNGSNCFGQLNCLSKSFQTLNHCRLSTLGYKSYQN  
PCFIPSYVSPLCYISNSCQPQSYLVRNYHYSSYRPTSCRPLSYLSRSFRSLSYIPSTFPP  
LRYLCSGSRPLKCY

>sp|Q8IUG1|KRA13\_HUMAN Keratin-associated protein 1-3 OS=Homo sapiens GN=KRTAP1-3 PE=2 SV=1

MTCCQTSFCGYPS CSTSGTCGSSCCQPSCCETSCCQPSCCETSCCQPSCCQTSFCGFPSF  
STSGTCSSSCCQPSCCETSCCQPSCCQTSCTGCGIGGGIGYGQEGSSGAVSTRIRWCR  
PDCRVEGTCLPPCCVV SCTPPTCCQLHHAEEASCCRP SYCGQSCCRPVCCCYSCPTC

>sp|POC7H8|KRA23\_HUMAN Keratin-associated protein 2-3 OS=Homo sapiens GN=KRTAP2-3 PE=1 SV=2

MTGCCG STLSSL SYGGGCCQ PCCCRDPCCCRPVTCQT TVCRPVTCVPRCTRPICEPCRR  
PVCCDPCSLQEGCCRPITCCPSSCTAVVCRPCCWATTCCQPVSVQSPCCRPPCGQPTPCS  
TTCRTSSC

>sp|Q9BYR4|KRA43\_HUMAN Keratin-associated protein 4-3 OS=Homo sapiens GN=KRTAP4-3 PE=2 SV=2

MVSSCCGSVCS DQSCGQGLGQESCCRPSCCQTTCRTTCCRPSCC ISSCCRPSCC ISSCC  
KPSCCRTTCCRPSCC ISSCCRPSCC ISSCCKPSCCRTTCCRPSCC ISSCCRPSCC ISSCC  
KPSCCQTTCRPSCC ISSCYRPQCCQPSCCRPACC ISSCHPSCCVSSCRCPFSCPTTCC  
RTTCFHPICGSSCC

>sp|Q9BYQ5|KRA46\_HUMAN Keratin-associated protein 4-6 OS=Homo sapiens GN=KRTAP4-6 PE=2 SV=4

MVSSCCGSVCS DQGCGL ETCCRPSCCQTTCRTTCCRPSCCVSSCCRPQCCQSVCCQPTC  
CRPSCCPSCCQTTCRTTCCRPSCCVSSCCRPQCCQSVCCQPTCCRPSCS ISSCCRPSCC  
VSRCCRSQCCQSVCCQPTCCRPSCC ISSCCRPSCCESSCCRPCCCRPCCCLRPVCGRVSC  
HTTCYRPTCVISTCPRPLCCASSCC

>sp|Q9BYR0|KRA47\_HUMAN Keratin-associated protein 4-7 OS=Homo sapiens GN=KRTAP4-7 PE=1 SV=2

MVSSCCGSVCS DQGCSQDLQETCCRPSCCQTTCRTTTCYRPSCCVSSCCRPQCCQSVCC  
QPTCCRP TCCETTCHPRCCI SSCRPSCCMSSCKPQCCQSVCCQPTCCHPSCC ISSCC  
RPSCCVSRCCRPQCCQSVCCQPTCCRPSCC ISSCCRPSCCESSCCRPSCCRPCCCLRPVC  
GRVSCHTTCYRPTCVISTCPRPLCCASSCC

>sp|Q9BYQ8|KRA49\_HUMAN Keratin-associated protein 4-9 OS=Homo sapiens GN=KRTAP4-9 PE=2 SV=2

MVSSCCGSVCS DQGCGQDLQETCCRPSCCETTTCRTTCCRPSCCVSSCCRPQCCQSVCC  
QPTCSRPSCCQTTCRTTTCYRPSCCVSSCCRPQCCQ PACQPTCCRPSCCETTCHPRCC  
ISSCCRPSCCVSSCKPQCCQSVCCQPNCCRPSCS ISSCCRPSCCESSCCRPCCCVRPVC  
GRVSCHTTCYRPTCVISSCPRPLCCASSCC

>sp|Q6L8H4|KRA51\_HUMAN Keratin-associated protein 5-1 OS=Homo sapiens GN=KRTAP5-1 PE=2 SV=1

MGCCGCSGGCGSSCGGCGSGCGGCGSGCGGCGSGGSGSSCCVPVCCCKPVCCRVPTCS

CSSCGKGGCGSSGGSKGGCGSCGGCKGGCGSCGGSKGGCGSCGGSKGGCGSCGGSKGGCG  
SGCGGCGSSCCVPVCCCKPMCCCVPA CSCSSCGKGGCGSCGCSKGACGSCGGSKGGCGSC  
GGCKGGCGSCGGSKGGCGSGCGGCGSGGVPVCCSCSSCGSCAGSKGGCGSSCSQCSCC  
KPPCCSSGCGSSCCQSSCKPCCSQSSCCVPVCCQCKI

>sp|Q701N4|KRA52\_HUMAN Keratin-associated protein 5-2 OS=Homo sapiens GN=KRTAP5-2 PE=1  
SV=1

MGCCGSRGCGSGCGGCGSSCGGCGSGCGGCGSGRGGCGSGCGGSSSCGGCGSRCYVPV  
CCCKPVCSWVPACSTSCGSCGGSKGGCGSCGGSKGGCGSCGGSKGGCGSCGCSQSSCK  
PCCSSGCGSSCCQSSCKPCCSQSSCCVPVCCQSSCKPCCQSNCCVPVCCQCKI

>sp|Q96MU8|KREM1\_HUMAN Kremen protein 1 OS=Homo sapiens GN=KREMEN1 PE=1 SV=3

MAPPAARLALLSAAALTLAARPAPSPGLGPECFTANGADYRGTQNW TALQGGKPCLFWNE  
TFQHPYNTLKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNL  
GCYKDHGNPPPLTGTSKTSNKLTITCISFCRSQRKFAGMESGYACFCGNNPDYWKYGE  
AASTECNSVCFGDHTQPCGGDGRIILFDTLVGACGGNYSAMSSVVYSPDFPDYATGRVC  
YWTIRVPGASHIHFSFLFDIRDSADMVELLDGYTHRVLARFHGRSRPPLSFNVSLDFVI  
LYFFSDRINQAQGFVLYQAVKEELPQERPAVNQTVAEVITEQANLSVSAARSSKVLVI  
TTSPSHPPQTVPGNSWAPPMGAGSHRVEGWTVYGLATLLILTVTAIVAKILLHVTFKSH  
RVPASGDLRDCHQPGTSGEIWSIFYKPSTSISIFKKKLKGQSQQDDRNPLVSD

>sp|O00522|KRIT1\_HUMAN Krev interaction trapped protein 1 OS=Homo sapiens GN=KRIT1 PE=1  
SV=2

MGNPENIEDAYVAVIRPKNTASLNSREYRAKSYEILLHEVPIEGQKKKRKKVLLETKLQG  
NSEITQGILDYVVETTKPISPANQGIRGKRVLMKKFPLDGEKMGREASLFIVPSVVKDN  
TKYTYTPGCPIFYCLQDIMRVCSSESTHFATLTARMLIALDKWLDERHAQSHFIPALFRP  
SPLERIKTNVINPAYATESGQTENSLHMGYSALEIKSKMLALEKADTCIYNPLFGSDLQY  
TNRVDKVVINPYFGLGAPDYSKIQIPKQEKWQRSMSSVTEDKERQWVDDFPLHRSACEGD  
SELLSRLLSERFSVNQLDSHWAPIHYACWYGKVEATRILLEKGKCNPNLLNGQLSSPLH  
FAAGGGHAEIVQILLNHPETDRHITDQQGRSPLNICEENKQNNWEEAAKLLKEAINKPYE  
KVRIYRMDGSYRSVELKHGNNTTVQQIMEGMRLSQETQQYFTIWICSENLSLQKPYHKP  
LQHVRDWPEILAE LTNLDPQRETQFLRRDVRLPLEVEKQIEDPLAILILFDEARYNLL  
KGFYTAPDAKLITLASLLLQIVYGNYESKHKHQGFLNEENLKSIVPVTCLKSKAPHWTNR  
ILHEYKNLSTSEGVSKEMHHLQRMFLQNCWEIPTYGAAFFTGQIFTKASPSNHKVIPVYV  
GVNIKGLHLLNMETKALLISLKYGCFMWQLGDTDTCFQIHSMENKMSFIVHTKQAGLVVK  
LLMKLNGQLMPTERN

>sp|Q96AA8|JKIP2\_HUMAN Janus kinase and microtubule-interacting protein 2 OS=Homo sapiens  
GN=JAKMIP2 PE=1 SV=1

MSKKGRNKGEKPEALIVALQAANEDLR TKLTDIQIELHQEKS KVS KLEREKTQEAKRIRE  
LEQRKHTVLVTELKAKLHEEKMKELQAVRENLIKQHEQEMSRTVKVRDGEIQR LKSALCA  
LRDGSSDKVRTALTIEAREEARKLFDTERLKLQEIADLKTAKKQVDEALSNMIQADKIK  
AGDLRSEHQSHQEAISKIKWESERDIRRLMDEIKAKDRIIFSLEKELETQTGYVQKLQLQ  
KEALDEQLFLVKEAECNMSSPKREIPGRAGDGSEHCSSPD LRRNQKRIAELNATIRKLED  
RNTLLGDERNELLKRVRETEKQCKPLLRNKCLAKRNDELMVSLQRMEEKLKAVTKENSE  
MREKITSHPPLKCLKSLNDLDQANEEQETEF LKLQVIEQQNIIDELTRDREKLIRRRKHR  
RSSKPIKRPVLDPFIGYDEDSMDSETSSMASFRTRTPATPDDDLDES LAEESELRFRQ  
LTKEYQALQRAYALLQEQTGGIDAEREAKAQEQLQAEV LRYKAKIEDLEATLAQKGQDS

HWVEDKQLFIKRNQELLEKIEKQEAENHRLQQELQDARDQNELLEFRNLELEERERRSPP  
FNLQIHPFSDGVSALQIYCMKEGVKDVNIPDLIKQLDILGDNGLRNEEQVAIIQASTVL  
SLAEKWIQQIEGAEAAALHQKMMELSDMEQFCKIKGYLEEELDYRKQALDQAYMRIQELE  
ATLYNALQQETVIKFGELLSEKQQEELRTAVEKLRRLRKSREYDCQILQERMELLQQA  
HQRIRDLEDKTDIQRKQIKDLEEKSNRKHG

>sp|POC870|JMJD7\_HUMAN JmjC domain-containing protein 7 OS=Homo sapiens GN=JMJD7 PE=1  
SV=1

MAEAALEAVRSELREFPAAARELCVPLAVPYLDKPPTPLHFYRDWVCPNRPCTIIRNALQH  
WPALQKWSLPYFRATVVGSTEVSAVTPDGYADAVRGDRFMMPAERRLPISFVLDVLEGRA  
QHPGVLYVQKQCSNLPSELQLLPDLESHVPWASEALGKMPDAVNFWLGEAAVTSLHKD  
HYENLYCVVSGEKHFLFHPSPDRFPIPYELYTPATYQLTEEGTFKVVDDEAMEKVPWIPL  
DPLAPDLARYPSYSQAALRCTVRAGEMLYLPALWFHHVQSQGCIAVNFWYDMEYDLKY  
SYFQLLDSLTKASGLD

>sp|Q96S16|JMJD8\_HUMAN JmjC domain-containing protein 8 OS=Homo sapiens GN=JMJD8 PE=2  
SV=1

MVTGGAHSRSGGLPSASRRGLFRGGPKVETSGVRPGSRPLPRRRSCRPMAGGWAQGSRR  
AARLPEGGRMAPASRLALWALAAVALPGSGAEGDGGWRPGGPGAVAEERCTVERRAD  
LTYAEFVQQYAFVRPVLQGLTDSRFRALCSRDRLLASFGRVVRSTANTYSYHKVDL  
PFQEYVEQLLHPQDPTSLGNDTLYFFGDNNFTEWASLFRHYSPPPFGLGTAPAYSFGIA  
GAGSGVPFHHWHPGYSEVIYGRKRWFLYPPEKTPEFHPNKTTLAWLRDTPALPPSARPL  
ECTIRAGEVLYFPDRWWHATLNLDTSVFISTFLG

>sp|Q15040|JOS1\_HUMAN Josephin-1 OS=Homo sapiens GN=JOSD1 PE=1 SV=1

MSCVPWKGDKAKSESLELPQAAPPQIYHEKQRRELCAHALNNVFQDSNAFTRDTLQEIF  
QRLSPNTMVTPHKKSMLGNGNYDVNVIIMAAALQTKGYEAVWWDKRRDVGVIALTVMGFIM  
NLPSSLCWGPKLPLKRQHWICVREVGGAYYNLDSKLMPEWIGGESELRKFLKHHLRGK  
NCELLLVVPEEVEAHQSWRTDV

>sp|Q9BR39|JPH2\_HUMAN Junctophilin-2 OS=Homo sapiens GN=JPH2 PE=1 SV=2

MSGGRFDFDDGGAYCGGWEKKAHGHGLCTGPKGQGEYSGSWNFGFEVAGVYTWPSGNTF  
EGYWSQGRHGLGIETKGRWLYKGEWTHGFKGRYGIQSSSSGAKYEGTWNNGLQDGYGT  
ETYADGGTYQGQFTNGMRHGYGVRQSVPYGMAVVVRSPRLTSLSSLRSEHSNGTVAPDSP  
ASPASDGPALPSPAIPRGGFALLANAEAAARAPKGGGLFQRGALLGKLRRRAESRTSVG  
SQRSRVSFLKSDLSSGASDAASTASLGAAEGADEAAPFEADIDATTTETYMGEWKNDKR  
SGFGVSERSSGLRYEGEWLDNLRHGYGCTTLPDGHREEGKYRHNVLVKDTKRRLQLKSN  
KVRQKVEHSVEGAQRAAAIARQKAEIAASRTSHAKAKAEAAEQAAALANQESNIARTLAR  
ELAPDFYQPGPEYQKRRLQEIENSESLLEPPDRGAGAAGLPQPPRESPQLHERETPRP  
EGGSPSPAGTPPQPKRPRPGVSKDGLSPGAWNGEPSGEGSRSVTPSEGAGRRSPARPAT  
ERMAIEALQAPPAPSREPEVALYQGYHSYAVRTTPPEPPPFEDQPEPEVSGSESAPSSPA  
TAPLQAPTTLRGPEARETPAKLEPKPIIPKAEPRAKARKTEARGLTKAGAKKKARKEAAL  
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>sp|Q96JJ6|JPH4\_HUMAN Junctophilin-4 OS=Homo sapiens GN=JPH4 PE=2 SV=2

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YQGHWWQKREGLGVERKSRWYRGEWLGLKGRSGVWESVSGRLYAGLWKDGFQDGYGT  
ETYSDDGGTYQQWQAGKRHGYGVRQSVPYHQAALLRSPRRTSLDSGHSPPPTPPPPLPLP  
GDEGGSPASGSRGGFVLAPGDADGASSRKRTPAAGGFFRRSLLSGLRAGRRSSLGSK

RGSLRSEVSSEVGSTGPPGSEASGPPAAAPPALIEGSATEVYAGEWRADRRSGFGVSQRS  
NGLRYEGEWLGNRRHGYGRTTRPDGSREEGKYKRNLVHGGRVRSLLPLALRRGKVKEKV  
DRAVEGARRAVSAARQRQEIAAARAADALLKAVAASSVAEKAVEAARMAKLI AQDLQPML  
EAPGRRPRQDSEGSDEPLDEDSPGVYENGLTPSEGSPELPSSPASSRQPWRPPACRSPL  
PPGGDQGPFFSSPKAWPEEWGGAGAAEELAGYEADEAGMQGPGPRDGSPLLGGCSDSSG  
SLREEEGEDEEPLPPLRAPAGTEPEPIAMLVLRGSSSRGPDAGCLTEELGEPAATERPAQ  
PGAANPLVVGAVALLDLSLAFLFSQLLT

>sp|076095|JTB\_HUMAN Protein JTB OS=Homo sapiens GN=JTB PE=1 SV=1  
MLAGAGRPGLPQGRHLCWLLCAFTLKLCQAEAPVQEEKLSASTSNLPCWLVEEFVVAEEC  
SPCSNFRAKTTPECGPTGYVEKITCSSSKRNEFKSCRSALMEQRLFWKFEGAVVCVALIF  
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>sp|Q6ZU52|K0408\_HUMAN Uncharacterized protein KIAA0408 OS=Homo sapiens GN=KIAA0408 PE=1  
SV=1

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SAKIIDLYHEKTIPEKVIIESSNPYDLGQSEFIRTNHKDGLRKENKREQSLVSGGNQMCK  
EQKATKKSKVGFLDPLATDNQKECEAWPDLRTSEEDSKSCSGALSTALEELAKVSEELCS  
FQEEIRKRSNHRMKSDFSLEMPNVTNIPHGDPMINNDQCILPISLEKEKQKNRKNLSC  
TNVLQSNSTKKCGIDTIDLKRNETPPVPPRSTSRNFPSSDSEQAYERWKERLDHNSWVP  
HEGRSKRNYNPHFPLRQQEMSLYPNEGKTSKDGIIFSSLVPEVKIDSKPPSNEDVGLSM  
WCDIGIGAKRSPSTSWFQKTCSTPSNPKYEMVIPDHPAKSHPDHVSNDCSSSVAESS  
PLRNFSCGFERTTRNEKLAAKTDEFNRTVFRTRDNCQAIQQNHSCSKSSEDLKPCDTSST  
HTGSIQSNDVSGIWKTNAMHPVPMENVPDNPTKKSTTGLVRQMKGHLSPRSYRNLHEH  
DWRPSNLSGRPRSADPRSNGVVEKLLKTYETATESALQNSKCFQDNWTKNSDVSGGAT  
LSQHLEMLQMEQQFQKTA VWGGGEVKGIDPKKITEESMSVNASHGKGFSRPARPANRR  
LPSRWASRSPSAPPALRRTTHNYTISLRSEALMV

>sp|O60303|K0556\_HUMAN Protein KIAA0556 OS=Homo sapiens GN=KIAA0556 PE=1 SV=4

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SSRTAPSKVQRRGWHQKSVQIRTEAGPRLHIEPPVDYSDDFELCGDVT LQANNTSEDRPQ  
ELRRSLELSVNLQRKQKDCSSDEYDSIEEDILSEPEPEDPALVGHPRHDRPPSSGDWTQK  
DVHGEQETEGRSSPGPDTLVVLEFNPASKSHKRERNLSAKRKDNAEVFVPTKPEPNLTPQ  
APAVFPDQERMCSRPGSRRRERPLSATRKTLCEAEYPEEDASAVLQAIQVENAALQRALLS  
RKAEQPASPLQDAEGPPAKPWTSLLEEKEETLELLPITTATTTQEPAGAAGGARAINQAM  
DRIGLLGSRQQQKLLKVLQAVESDSAHLGRVVSPTKEQVSDTEDKQRMRADEIKDAIYVT  
MEILSNWGNWWVGLTEVEFFDLNDTKLYVSPHDVDIRNTATPGELGRLVNRNLAGKKDS  
SPWTCPFHPLQLFFVIRNTRQLGDFHLAKIKVRNYWTADGDLDIGAKNVKLYVNRNLIF  
NGKLDKG DREAPADHSILVDQKNEKSEQLEEAMNAHSEESKGTHEMAGASGDKELGLGCS  
PPAETLADAKLSSQGNVSGKRKNSTNCRKDSLSQLEEYLRLSAVPTSMGDMPSAPATSPP  
VKCPPVHEEPSLIQLENLMGRKICEPPGKTPSWLQPSPTGKDRKQGGKPKPLWLSPEK  
PLAWKGRLP SDDVIGEGPGETEARDKGLRHEPGWGT SRSVNTKERPQRATTKVHSDDSDI  
FNQPPNRERPASGRGRSRKDAGSSSHGDDQPASREDTWSSRTPSRSRWRSEQEHTLHESW  
SSLSAFDRSHRGRISNTELPGDILDELLQQKSSRHS DLPPSKKGEQPGLSRGQDGYSGET  
DAGGDFKIPVLPYGQRLVIDIKSTWGD RHVYVGLNGIEIFSSKGEPVQISNIKADPPDINI  
LPAYGKDP RVVTNLIDGVNRTQDDMHVWLAPFTRGRSHSITIDFTHPCHVALIRIWNYNK



SRIHSFRGVKDITMLLDTCIFEGEIAKASGTLAGAPEHFGDTILFTTDDDILEAIFYSD  
EMFDLDVGSLSLQDEEAMRRPSTADGEGDERPFTQAGLGADERIPELELPSSSPVPQVT  
TPEPGIYHGICLQLNFTASWGLHYLGLTGLEVVGKEGQALPIHLHQISASPRDLNELPE  
YSDSRALDKLIDGTNITMEDEHMLIPFSPGLDHVVTIRLDRAESIAGLRFWNYNKSPE  
DTYRGAKIVHVS LDGLCVSPPEGFLIRKPGNCHFDFAQEILFVDYLRAQLLPQPARRLD  
MRSLECASMDYEAPLMPCGFIFQFQLLTSWGDOPYIIGLTGLELYDERGEKIPLSENNIAA  
FPDSVNSLEGVG DVTPDKLIDQVNDTSDGRHMLAPILPGLVNRVYVIFDLPTTVSMI  
KLWNYAKTPHRGVKEFGLLVDDL VYNGILAMVSHLVGGILPTCEPTVPYHTILFTEDRD  
IRHQEKHTTISNQAEQDVQMMNENQIITNAKRKQSVVDPALRPKTCISEKETRRRRRC

>sp|Q96AT1|K1143\_HUMAN Uncharacterized protein KIAA1143 OS=Homo sapiens GN=KIAA1143 PE=1  
SV=2

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VLKKGDL SVEEVMKIKAEIKAAKADEEPTADGRIIYRKPVKHP SDEKYSGLTASSK KKK  
PNEDEVNQDSVKKNSQKQIKNSSLLSFDNEDENE

>sp|Q9ULL0|K1210\_HUMAN Uncharacterized protein KIAA1210 OS=Homo sapiens GN=KIAA1210 PE=2  
SV=3

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STKGELGPAAVTDLEIPSYSRGFLPCTPRFPPTWCRGPGCF CGTAVIAGNLGDLARIVGP  
SHHASQLLLLQE QDSGNHPTMAESLSEISDSL DVLEAGDEGKKKCKFKALKSFFVKKKEK  
EAEDTQEEEMLELSLSSSNINISLQPVRENQPTKARAKSSMSGKALSHDSIFMLGPEPE  
RSASKMFPSMDPQGRGPQRSHISRTL PKPRSKVPGVVSGAMSGAVLQNVPTS AVWVAGP  
KITENPPSRRRRLSIIPPVIQPEIISKNLVEISLDDESPKNPQKKALPHKSLTATQSFSE  
LSSGPDQSQSLTAFATLASTSSTQLPIGFSTATTQGCLDSSAARHKMTLNPRKQKKNLQ  
VIIRGLPVWFSHFQ GILEGSLQCVTQTLETPNLDEPLPVEPK EEENLPLVSEEEKSITK  
PKEINEKKLGMSADSSSQKQNNKTEMYDKKTTDQAPNTDASRSQGYPMSAAYGRRWRRK  
GASVSGLSGCEFGKGRSLKQSSEGYGLGDRAGSSPTNKTARNVPF SHLSLEKDNMEQPTTS  
QPETTT PQGLSDKDDMGRNAGIDFGSRKASAAQPIPENMDNSMVSDPQPYHEDAASGA  
EKTEARASLSLMVESLSTTQEEAILSVAAEAQVFMNPSHIQLEDQEA FSDLQKAQSKME  
SAQDVQ TICKEKPSGNVHQFTTASVLGMTSTTAKGDVYAKTLPPRSLFQSSRKPDAAEEVS  
SDSENIPEEGDGSEELAHGHSSQSLGKFEDEQEVFSESKSFVEDLSSSEELDLRCLSQA  
LEEPEDA EVFTESSYVEKYNTSDDCSSSEEDLPLRHPA QALGKPKNQEVSSASNNTPE  
EQNDFMQQLPSRCPSQPI MNPTVQQQVPTSSVGTSIKQSDSVEPIPPRHPFQPWVNP KVE  
QEVSSSPKSMAVEESISMKPLPPKLLCQPLMNPKVQQNMFGSEDI AVERVISVEPLLPR  
YSPQSLTDPQIRQISESTAVEEGTYVEPLPPRCLS QPSERPKFLDSMSTSAEWSSPVAPT  
PSKYTSPPWVTPKFEELYQLSAHPESTTVEEDISKEQLLPRHLSQLTVGNKVQQLSSNFE  
RAAIEADISGSPLPPQYATQFLKRSKVQEMTSRLEKMAVEGTSNKSPIPRRPTQSFVKFM  
AQQIFSESSALKRGSDVAPLPNLP SKSLSKPEVKHQVFS DSGSANPKGGISSKMLPMKH  
PLQSLGRPDPQKVFSYSERAPGKCSSFKEQLSPRQLS QALRKPEYEQKVSPVSASSPKE  
WRNSKKQLPPKHSSQASDRSKFQPMSSKGPVNPVKQSSGEKHL PSSSPFQQQVHSSSV  
NAAARRSVFESNSDNWFLGRDEAFAIKTKKFSQGSKNPIKSIPAPATKPGKFTIAPVRQT  
STSGGIYSKKEDLESGDGNNNQHANLSNQDDVEKLF GVR LKRAPPSQKYKSEKQDNFTQL  
ASVPSGPISSSVGRGHKIRSTSQGLLDAAGNLTKISYVADKQSRPKSESMAKKQPACKT  
PGKPAGQQSDYAVSEPVWITMAKQKQKSFKAHISVKELKTKSNAGADAETKEPKYEGAGS  
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NPVEPIEPVWFLARKKAKAWSHMAEITQ

>sp|Q6NV74|K121L\_HUMAN Uncharacterized protein KIAA1211-like OS=Homo sapiens GN=KIAA1211L  
PE=1 SV=3

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NEVIAIESGPVGYDSEDELEESRGTLSRALSHDSIFIPESGQDATRPVRVFSQENVCDR  
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>sp|Q6UXG2|K1324\_HUMAN UPF0577 protein KIAA1324 OS=Homo sapiens GN=KIAA1324 PE=2 SV=2

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>sp|Q6ZVL6|K154L\_HUMAN UPF0606 protein KIAA1549L OS=Homo sapiens GN=KIAA1549L PE=2 SV=2

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>sp|Q9HCI6|K1586\_HUMAN E3 SUMO-protein ligase KIAA1586 OS=Homo sapiens GN=KIAA1586 PE=1  
SV=2

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CIVNTLLTTLNDCGFTNEYLKANLIAFCSDGANTILGRKSGVATKLENFPEII IWNCLN  
HRLQLSLDDSI SEIKQINHLKIFIDKIYSIYHQPNKNQTKLLGTVAKELETEI IKIGRVM  
GPRWAACSLQAATAVWHAYPILYMHFSHSYGLAKRLANINFLQDLALMIDILEEFSVLS  
TALQSRSTNIKKAQKLIKRTIRALENLKIGTGKYESQIEDLIKSDKFKDIPFNKNNKFNA  
LPRSILLDNIIQHMLNRLLSDRNHEDIFNYFDLLEPSTWPYEEITSPW IAGEKTLFHLCK  
ILKYEVDLNDFRE FVNNNIKSNNSIPTTIYKAKKIVSTIAINSAE AERG FNL MN ICTR  
VRNSLTIDHVS D LMTINLLGKELADWDATPFVKSWSNCHRLATDTRVRQKSTKVFHENQ  
LAIWNLK

>sp|Q5JYT7|K1755\_HUMAN Uncharacterized protein KIAA1755 OS=Homo sapiens GN=KIAA1755 PE=2  
SV=2

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>sp|Q9C075|K1C23\_HUMAN Keratin, type I cytoskeletal 23 OS=Homo sapiens GN=KRT23 PE=1 SV=2

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LQTQYSTKSALENMLSETQSRYSCKLQDMQEIIISHYEEELTLRHELERQNNEYQVLLGI  
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>sp|P48668|K2C6C\_HUMAN Keratin, type II cytoskeletal 6C OS=Homo sapiens GN=KRT6C PE=1  
SV=3

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>sp|Q14CN4|K2C72\_HUMAN Keratin, type II cytoskeletal 72 OS=Homo sapiens GN=KRT72 PE=1  
SV=2

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SNLQKQLEMLSGDGVRLDSELNMQDLVEDYKKRYEVEINRRTAAENEFVVLKKDVAAY  
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AQYEEIALKSKAEAEALYQTKIQELQVTAGQHGGDLKLTKAEISELNRLIQRIRSEIGNV  
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>sp|Q7RTS7|K2C74\_HUMAN Keratin, type II cytoskeletal 74 OS=Homo sapiens GN=KRT74 PE=1 SV=2

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ENEFVVLKKDADAAYAVKVELQAKVDSLDEIKFLKCLYDAEIAQIQTHASETSVILSMD  
NNRDLDLDSIIAEVRMHYEEIALKSKAEAEALYQTKIQELQLAASRHGGDLKHTRSEMVE  
LNRLIQRIRCEIGNVKKQASLETAIADAEQRGDNALKDAQAKLDELEGALHQAKEELAR  
MLREYQELMSLKLALDMEIATYRKLEGEECRMSGENPSSVSISVISSSSYSYHHPSSAG  
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>sp|P08729|K2C7\_HUMAN Keratin, type II cytoskeletal 7 OS=Homo sapiens GN=KRT7 PE=1 SV=5

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TKWTLLEQKSAKSSRLPDIFEAQIAGLRGQLEALQVDGGRLEAELRSMQDVVEDFKNKY  
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SDTSVVLSDNSRSLDLGIIAEVKAQYEEAMAKCSRAEAEAWYQTKFETLQAQAGKHGDD  
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LQRGKQDMARQLREYQELMSVKLALDIEIATYRKLEGEESRLAGDVGAVNISVMNSTG  
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>sp|Q6KB66|K2C80\_HUMAN Keratin, type II cytoskeletal 80 OS=Homo sapiens GN=KRT80 PE=1 SV=2

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>sp|P05787|K2C8\_HUMAN Keratin, type II cytoskeletal 8 OS=Homo sapiens GN=KRT8 PE=1 SV=7

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TKWSSLQKQTARSNMDNMFESYINNLRQLETLGQEKLEAEELGNMQGLVEDFKNKYE  
DEINKRTEMENEFVLIKKDVEAYMNKVELESRLGLTDEINFLRQLYEEEIRELQSQIS  
DTSVVLSDNSRSLDMSIIAEVKAQYEDIANRSRAEAESEMYQIKYEELQSLAGKHGDDL

RRTKTEISEMNRNISRLQAEIEGLKGQRASLEAAIADAEQRGELAIKDANAKLSELEAAL  
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LPK

>sp|Q674X7|KAZRN\_HUMAN Kazrin OS=Homo sapiens GN=KAZN PE=1 SV=2

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SLSEGEEQMDRLQQVELVRTTPMSHWKAGTVQAWLEVVMAMPMyVKActENVKSGKVLLS  
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YSQAFQNLVDGRMLNSLMKRDLKHLNVSKKFHQVSILLGIellyQVNFsREALQERRA  
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PSGKHILRRHLAEEMSAVFHPANSTGIREAERFGTPPGRASSVTRAGKEENSSGLKYKAG  
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>sp|Q8IY47|KBTB2\_HUMAN Kelch repeat and BTB domain-containing protein 2 OS=Homo sapiens  
GN=KBTBD2 PE=1 SV=2

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DKSVVVQGLYKSMPKFFKPRLGMTKEEMMIFIEASSENPCSLYSSVCYSPQAEKVYKLCs  
PPADLHKVGTVVTPDNDIYIAGGQVPLKNTKTnHskTSKLQTAfRTVNCfYWFDAQQNTW  
FPKTPMLFVRIKPSLVCCEGYIYAIGGDSVGGElnRRtVERYDTEKDEWTMVSPlPCAWQ  
WSAAVVHDCIYVMTLNLmYCYFPRSDSWVEMAMRQTSRSFASAAAFGDKIFYIGGLHIA  
TNSGIRLPSGTVDGSSVTVEIYDVnKNEWKMAANIPAKRYSDPCVRAVVISnSLCVFMRE  
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>sp|Q86V97|KBTB6\_HUMAN Kelch repeat and BTB domain-containing protein 6 OS=Homo sapiens  
GN=KBTBD6 PE=1 SV=1

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>sp|Q8NFY9|KBTB8\_HUMAN Kelch repeat and BTB domain-containing protein 8 OS=Homo sapiens  
GN=KBTBD8 PE=2 SV=2

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DSIYYIAGTCGNHQRMFTVEAYDIELNKWTRKKDFPCDQSNPYLKLVL FQNKHLH FVRA  
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>sp|C9JR72|KBTBD\_HUMAN Kelch repeat and BTB domain-containing protein 13 OS=Homo sapiens  
GN=KBTBD13 PE=1 SV=1

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DEEEDAWRTL AALPLEASTLLAGVATLG NKLYIVGGV RGASKEVV ELGFCYDPDGGTWHE  
FPSPHQPRYDTALAGFDGRLYAIGGEFQRTPISSVERYDPAAGCWSFVADLPQPAAGVPC  
AQACGR L FVCLWRPADTTAVVEYAVRTDAWLPVAELRRPQSYGHCMVAHRDSL YVVRNGP  
SDDFLHCAIDCLNLATGQWTALPGQFVNSKGALFTAVVRGDTVYTVNRMFTLLY AIEGGT  
WRLREKAGFPRPGSLQTFLRLRPPGAPGPVTSTTAE L

>sp|Q8N752|KC1A1\_HUMAN Casein kinase I isoform alpha-like OS=Homo sapiens GN=CSNK1A1L  
PE=2 SV=2

MTNNSGSKAELVVG GKYKLVRKIGSGSFGDVYLGITTTNGEDVAVKLESQKV KHPQLLYE  
SKLYTILQGGVGIPMHWYGQEKDNNVLVMDLLGPSLEDLFNFCSRRTMKTVLMLADQM  
ISRIEYVHTKNFLHRDIKPDNFLMGTGRHCNKLFLIDFGLAKKYRDNRTQH IPYREDKH  
LIGTVRYASINAHLGIEQSRRDDMESLGYVFM YFNRTSLPWQGLRAMTKKQKYEKISEKK  
MSTPVEVLCKGFPAEFAMLYNCRGLRFEEVPDYM YLRQLFRILFRTL NHQYDYTFDWTM  
LKQKAAQQAASSSGGQQAQTQTGKQTEKNKNNVKDN

>sp|Q8N5I3|KCNRG\_HUMAN Potassium channel regulatory protein OS=Homo sapiens GN=KCNRG PE=1  
SV=1

MSSQELVTLNVGGKIFTTRFSTIKQFPASRLARMLDGRDQEFKMVG GQIFVDRDGD LFSF  
ILDFLRTHQLLLPTEFSDYLR LQREALFYELRSLVDLLNPYLLQPRPALVEVHFLSRNTQ  
AFFRVFGSCSKTIEMLTGRITVFTEQPSAPTWNGNFFPPQMTLLPLPPQRPSYHDLVFQC  
GSDSTTDNQTGVRYYSIKPDNRKLANGTNVLGLLIDTLLKEGFHLVSTRTVSSEDKTECY  
SFERIKSPEVLITNETPKPETII IPEQSQIKK

>sp|Q9H478|KCQ1D\_HUMAN KCNQ1 downstream neighbor protein OS=Homo sapiens GN=KCNQ1DN PE=2  
SV=1

MGRKWSGPTAEHQLPMPPPGVRLDSWKGVASGCSPSKASQEARGKEKCPTLNGQPQWSAL  
FTLPPQRE

>sp|P06732|KCRM\_HUMAN Creatine kinase M-type OS=Homo sapiens GN=CKM PE=1 SV=2

MPFGNTHNKFKNLYKPEEEYPDL SKHNNHMAKVL TLELYKKLRDKETPSGFTVDDVIQTG  
VDNPGHPFIMTVGCVAGDEESYEVFKELFDPIISDRHGGYKPTDKHKTDLNHENLKGDD  
LDPNYVLSSRVTRGRSIRKGYTLPPHCSRGERRAVEKLSVEALNSLTGEFKGKYPLKSMT  
EKEQQQLIDHFLFDKPVSPLLASGMARDWPDARGIWHNDNKSFLVWVNEEDHLRVISM  
EKGGNMKEVFRFCVGLQKIEEIFKKAGHPFMWNQHLGYVLTCPSNLGTGLRGGVHVLA  
HLSKHPKFEEILTRLRLQKRGTTGGVDTAAVGSVFDVSNADRLGSSEVEQVQLVVDGVKLM  
VEMEKKLEKQSIDDMIPAQK

>sp|P17540|KCRS\_HUMAN Creatine kinase S-type, mitochondrial OS=Homo sapiens GN=CKMT2 PE=1 SV=2

MASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAEVREQPRLFPPSADYPDLRKH  
NNCMAECLTPAIYAKLRNKVTPNGYTLDDQCIQTGVDNPGHPFIKTVMVAGDEESYEVFA  
DLFDPIVILRHNGYDPRVMKHTTDLASKITQGQFDEHYVLSSRVTRGRSIRGLSLPPAC  
TRAERREVENVAITALEGLKGDLAGRYKLSMTEQDQQRLIDHFLFDKPVSPLLTCAG  
MARDWPDARGIWHNYDKTFLIWINDEHTRVISMEKGGNMKRVFERFCRGLKEVERLIQE  
RGWEFMWNERLGYYLTCPSNLGTGLRAGVHVRIPLSKDPRFSKILENRLQKRGTTGGVD  
TAAVADVYDISNIDRIGRSEVELVQIVIDGVNYLVDCEKKLERGQDIKVPPLPQFGKK

>sp|P12532|KCRU\_HUMAN Creatine kinase U-type, mitochondrial OS=Homo sapiens GN=CKMT1A PE=1 SV=1

MAGPFSRLLSARPGRLLLALAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLRKH  
NCMASHLTPAVYARLCKTTPTGTWTLDDQCIQTGVDNPGHPFIKTVMVAGDEETYEYFAD  
LFDPIVIERHNGYDPRVMKHTTDLASKIRSGYFDERYVLSSRVTRGRSIRGLSLPPACT  
RAERREVERVVVDALSGLKGDLAGRYRLSEMTEAEQQQLIDHFLFDKPVSPLLTAAGM  
ARDWPDARGIWHNNEKSFLIWWNEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQE  
GWEFMWNERLGYYLTCPSNLGTGLRAGVHIKPLLSKDSRFPKILENRLQKRGTTGGVD  
AATGGVFDISNLDRLGKSEVELVQLVIDGVNYLIDCERRLERGQDIRIPTPVIHTKH

>sp|Q8NC54|KCT2\_HUMAN Keratinocyte-associated transmembrane protein 2 OS=Homo sapiens GN=KCT2 PE=1 SV=2

MAAAVPKMRGPAQAKLLPGSAIQALVGLARPLVLALLVSAALSSVVSRTDSPSPTVLN  
SHISTPNVNALTHENQTKPSISQISTTLPTTSTKKSGGASVVPHSPPTPLSQEADNNE  
DPSIEEDLLMLNSSPSTAKDTLDNGDYGEPDYDWTGPRDDDESDDTLEENRGYMEIEQ  
SVKSFKMPSSNIEEEDSHFFHLLIIFAFCIAVVYITYHNKRKIFLLVQSRKWRDGLCSKT  
VEYHRLDQNVNEAMPSLKITNDYIF

>sp|Q9Y597|KCTD3\_HUMAN BTB/POZ domain-containing protein KCTD3 OS=Homo sapiens GN=KCTD3 PE=1 SV=2

MAGGHCGSFPAAGSGEIVQLNVGGTRFSTSRQTLMWIPDSFFSLLSGRISTLRDETG  
AIFIDRDPAAFAPILNFLRTKELDLRGVSINVLRHEAEFYGITPLVRRLLLCEELERSSC  
GSVLFHGYLPPGIPSRKINNTVRSADSRNGLNSTEGEARGNGTQPVLSGTGEETVRLGF  
PVDPRKVLIVAGHHNWIVAAYAHFAVCYRIKESSGWQQVFTSPYLDWTIERVALNAKVVG  
GPHGDKDKMVAASESSIIILWSVQDGGSGSEIGVFSGLGVPVDALFFIGNQLVATSHTKV  
GVWNAVQTQHWQVQDVVPIITSYTAGSFLLGCNNGSIYYIDMQKFPLRMKDNDLLVTELY  
HDPSNDAITALSVYLTPKTSVSGNWIEIAYGTSSGAVRVIVQHPETVSGPQLFQFTFVH  
RSPVTKIMLSEKHLVSVCADNNHVRTWTVTRFRGMISTQPGSTPLASFILSLEETESHG  
SYSSGNDIGPFGERDDQVFIQKVVPITNKLFRVLSSTGKRICEIQAVDCTTISSFTVRE  
CEGSSRMGSRPRRYLFTGHTNGSIQMWDLTTAMDVNKSEDKDVGGPTEEELLKLLDQCD



LSTSRCATPNISPATSVVQHSHLRESNSSLQLQHDDTTHEAATYGSMRPYRESPLLARAR  
RTESFHSYRDFQ TINLNRNVERAVPENG NLGPIQAEVKGATGECNISERKSPGVEIKSLR  
ELDSGLEVHKIAEGFSESKKRSEDENENKIEFRKKGGFEGGGFLGRKKVPYLASSPSTS  
DGGTDSPGTASPSPTKTTSPRHKKSDSSGQEYSL

>sp|Q9ULH0|KDIS\_HUMAN Kinase D-interacting substrate of 220 kDa OS=Homo sapiens  
GN=KIDINS220 PE=1 SV=3

MSVLISQSVINYVEEENIPALKALLEKCKDVDERNECGQTPLMIAAEQGNLEIVKELIKN  
GANCNLEDLDNWTALISASKEGHVHIVEELLKCGVNLEHRDMGGWTALMWACYKGRTDVV  
ELLLSHGANPSVTGLYSVYPIIWAAGRGHADIVHLLLQNGAKVNCSDKYGTTPLVWAARK  
GHLECVKHLLAMGADVDEGANSMTALIVAVKGGYTQSVKEILKRNPVNLTDKDGNTAL  
MIASKEGHEIVQDLLDAGTYVNIPDRSGD TVLIGAVRGGHVEIVRALLQKYADIDIRGQ  
DNKTALYWAVEKGNATMVRDILQCNPDTEICTKDGETPLIKATKMRNIEVVELLDDKGAK  
VSAVDKKGDTPLHIAIRGRSRKLAELLLRNPDKGRLLYRPNKAGETPYNIDCSHQKSILT  
QIFGARHLSPTETDGM LGYDLYSSALADILSEPTMQPPICVGLYAQWGS GKSFLKKLE  
DEMKTFAQQIEPLFQFSWLIVFLTLLLCGGLGLLFAFTVHPNLGIAVSLSFLALLYIFF  
IVIYFGGRREGESWNWAVLSTRLARHIGYLELLLKLMFVNPPPEQTTKALPVRFLFT  
DYNRLSSVGGETSLAEMIATLSDACEREFGLATRLFRVFKTEDTQGGKKWKKTCCLPSF  
VIFLFIIGCIISGITLLAIFRVPKHLTVNAVLISIASVVGLAFVLNCRWWQVLDSSLN  
SQRKRLHNAASKLHKLKSEGF MKVLKCEVELMARMAKTIDSFTQNQTRLVVIIDGLDACE  
QDKVLQMLD TVRVLFSKGPFI AIFASDPHIIKAINQNLNSVLRDSNINGHDYMRNIVHL  
PVFLNSRGLSNARKFLVTSATNGDVPCSDTTGIQEDARRVSQNSLGEMTKLGSKTALNR  
RDTYRRRQMRTITRQMSFDLTKLLVTEDFSDISPQTMRRLLNIVSVTGRLLRANQISF  
NWDRLASWINLTEQWPYRTSWLILYLEETEGIPDQMTLKTIERISKNIPTTKDVEPLLE  
IDGDIRNFEVFLSSRTPVLVARDVKVFLPCTVNLDPKLREIIADVRAAREQISIGGLAYP  
PLPLHEGPPRAPSGYSQPPSVCSSTSFNGPFAGGVVSPQPHSSYSGMTGPQHPPFYNRPF  
FAPYLYTPRYYPGGSQHLISRP SVKTS LPRDQNNGLEVIKEDAAEGLSSPTDSSRGSGPA  
PGPVVLLNSLNDVACEKLKQIEGLDQSMLPQYCTTIKKANINGRVLAQCNIDELKKEMN  
MNFGDWHLFRSTVLEMRNAESHVVPEDPRFLSESSSGPAPHGEPARRASHNELPHTELSS  
QTPYTLNFSFEELNTLGLDEGAPRHSNLSWQSQTRRTPSLSSLNSQDSSIEISKLTDKVQ  
AEYRDAYREYIAQMSQLEGGPGSTTISGRSSPHSTYYMGQSSSGGSIHNSLEQEKGDSE  
PKPDDGRKSFLMKRGDVIDYSSSGVSTNDASPLDPI TEDEKSDQSGSKLLPGKKSERS  
SLFQTDLKLKGSGLRYQKLPSDEDES GTEESDNTPLLKDDKDRKAEGKVERVPK SPEHSA  
EPIRTFIKKEYLSDALLDKKDSSDSGVRSESSPNHSLHNEVADDSQLEKANLIELEDD  
SHSGKRGIPHSLSGLQDPIIARMSICSEDKKSPSECSLIASSPEENWPACQKAYNLNRTP  
STVTLNNSAPANRANQNFDEMEGIRETSQVILRPSSSPNPTTIQENLKSMTHKRSQRS  
SYTRL SKDPPELHAAASSESTGFGEERESIL

>sp|O15550|KDM6A\_HUMAN Lysine-specific demethylase 6A OS=Homo sapiens GN=KDM6A PE=1 SV=2

MKSCGVSLATAAAAAA AFGDEEKKMAAGKASGESEEA SPSLTAEEREALGGLDSRLFGFV  
RFHEDGARTKALLGKAVRCYESLILKAEGKVESDFFCQLGHFNLLLEDYPKALSAYQRY  
SLQSDYWKNA AFLYGLGLVYFHYNAFQWAIKAFQEVLYVDPSFCRAKEIHLRLGLMFKN  
TDYESSLKHFLALVDCNPCTLSNAEIQFHIAHLYETQRKYHSAKEAYEQLLQTENLSAQ  
VKATVLQQLGWMHHTVDLLGDKATKESYAIQYLQKSLEADPN SGQSWYFLGRCYSSIGKV  
QDAFISYRQSIDKSEASADTWC SIGVLYQQNQPM DALQAYICAVQLDHGHA AAWMDLGT  
LYESCNPQDAIKCYLNATRSKSCSNTSALAARIKYLQAQLCNLPQGS LQNKTKLLPSIE

EAWSLPIPAELTSRQGAMNTAQNTSDNWSGGHAVSHPPVQQQAHSWCLTPQKLQHLEQL  
RANRNNLNPAQKLMLEQLESQFVLMQQHQMRPTGVAQVRSTGIPNGPTADSSLPTNSVSG  
QQPQLALTRVPSVSQPGVRPACPGQPLANGPFSAGHVPCSTSRTLGSTDTILIGNNHITG  
SGSNGNVPYLQRNALTLPHNRTNLTSSAEEPWKNQLSNSTQGLHKGQSSHSAGPNGERPL  
SSTGPSQHLQAAGSGIQNQNGHPTLPSNSVTQGAALNHLSSHTATSGGQQGITLTKEKSKP  
SGNILTVPETSRHTGETPNSTASVEGLPNHVHQM TADAVCSPSHGDSKSPGLLSSDNPQL  
SALLMGKANNVGTGTCDKVNNIHPAVHTKTDNSVASSPSSAISTATPSPKSTEQT TNS  
VTSLNSPHSGLHTINGEGMEESQSPMKTDL LLVNHKPSPQIIPSMSVSIYPSSAEVLKAC  
RNLGKNGLSNSSILLDKCPPRPSPSPYPPLPKDKLNPPTPSIYLENKRD AFFPPLHQFC  
TNPNNPVTVIRGLAGALKLDLGLFSTKTLVEANNEHMEVVRTQLLQPADENWDPTGTKKI  
WHCESNRSHTTIAKYAQYQASSFQESLREENEKRSHHKDHSDSESTSSDNGRRRGKPFK  
TIKFGTNIDLSDDKKWKLQLHELTKLPAFVRVVSAGNLLSHVGHTILGMNTVQLYMKVPG  
SRTPGHQENNNFCSVNINIGPGDCEWFFVPEGYWGV LNDFCEKNNLFLMGSWWP NLEDL  
YEANVPVYRFIQRPGDLVWINAGTVHWVQAIGWCNNIAWNVGPLTACQYKLAVERYEWNK  
LQSVKSIVPMVHLSWNMARNIKVSDPKLFEMIKYCLLRTLKQCQTLREALIAAGKEI IWH  
GRTKEEPAHYCSICEVEVFDLLFVTNESNSRKTYIVHCQDCARKTSGNLENFVVLEQYKM  
EDLMQVYDQFTLAPPLPSASS

>sp|Q6ZMT4|KDM7A\_HUMAN Lysine-specific demethylase 7A OS=Homo sapiens GN=KDM7A PE=1 SV=2

MAGAAAAVAAGAAAGAAAAVSAAPGRASAPPPPPVYCVCRQPYDVNRFMIECDICKD  
WFHGSCVGVEEHHAVIDIDLYHCPNCAVLHGSSLMKKRRNWHRHYTEIDDGSKPVQAGTR  
TFIKELRSRVFPSADEII IKMHGSQLTQRYLEKHGFDVPI MVPKLDDLGLRLPSPTFSVM  
DVERYVGGDKVIDVIDVARQADSKMTLHNYVKYFMNPNRPKVLNVISLEFSDTKMSELVE  
VPDIAKKLSWVENYWPDDSVFPKPFVQKYCLMGVQDSYTD FHDGGSVWYHVLWGEKI  
FYLIKPTDENLARYESWSSSVTQSEVFFGDKVDKCYKCVVKQGHTLFVPTGWIHAVLTSQ  
DCMAFGGNFLHNLNIGMQLRCYEMEKRLKTPDLFKFPFFEAICWFVAKNLETLKELRED  
GFQPQTYLVQGVKALHTALKLWMKKELVSEHA FEIPDNVRPGHLIKELSKVIRAEENG  
KPVKSQGIPIVCPVSRSSNEATSPYHSRRKMRKL RDHNVRTPSNLDILELHTREVLKRLE  
MCPWEEDILSSKLNKFNKHLQPSSTVPEWRAKDNDLRLLLTNGRI IKDERQPFADQSLY  
TADSENEEDKRRTKAKMKIEESSGVEGVEHEESQKPLNGFFTRVKSELRSRSSGYSDIS  
ESEDSGPECTALKSIFTTEESSGDEKKQEITSNFKEESNMVRNFLQKSQKPSRSEIPI  
KREPTSTSTEEEA IQGMLSMAGLHYSTCLQRQIQSTDCSGERNSLQDPSSCHGSNHEVR  
QLYRYDKPVECGYHVKTEDPDLRTSSWIKQFDTSRFHPQDLSRSQKCIRKEGSSEISQRV  
QSRNYVDSSGSSLQNGKYMQNSNLTSGACQISNGSLSPERPVG ETSFSVPLHPTKRPASN  
PPPISNQATKGKRPKKGMATAKQRLGKILKLN RNNGHARFFV

>sp|Q9BVR0|HRC23\_HUMAN Putative HERC2-like protein 3 OS=Homo sapiens GN=HERC2P3 PE=5 SV=2

MHAFCVGQYLEPDQEGVTIPDLGSLSSPLIDTERNLGLLLGLHASYLAMSTPLSPVEIEC  
AKWLQSSIFSGGLQTSQIHYSYNEEKDEDHCSPPGGTPASKSRLCSHRRALGDHSQAFLQ  
AIADNNIQDHNVKDFLCQIERYCRQCHLTTPIMFPPEHPVEEVGRLLLCCLLKHEDLGHV  
ALSLVHAGALGIEQVKHRTLPKSVVDVCRVVYQAKCSLIKTHQE QGRSYKEVCAPVIERL  
RFLFNELRPAVCNDLSIMSKFKLLSSLPHWRRIAQKI IREPRKKRVKPKPESTDDEEKIG  
NEESDLEEACILPHSPINVDKRPIAIKSPKDKWQPLLSTVTGVHKKYKWLKQNVQGLYPQS  
PLLSTIAEFALKEEPVDVEKRKCLLKQLERA EVRLEGIDTILKLYLVSKNFLLPSPVYAM  
FCGWQRLIPEGIDIGEPLTDCLKVDVLI PPFNRM LLEVTFGKLYAWAVQNI RNVLVDASA  
KFKELGIQPVPLQITITNENPSGPSLGTIPQAHFLLVMLSMLTLQHSANNL DLLLNSGTLA

LAQTALRLIGPSCDSVEEDMNASAQGASATVLEETRKETAPVQLPVSGPELAAMMKIGTR  
VMRGVDWKWGDQDRPPPGLGRVIGELGEDGWIRVQWDTGSTNSYRMGKEGNYDLKLAELP  
APAQPSAEDSDTEDDSEAEQTERNIHPTAMMFTSTINLLQTLCLSAGVHAEIMQSEATKT  
LCGLLQMLVYREQHRSWCTLGFBVQSIATLQVCGTLSSLQWITLLMKVVEGHAPFTATSL  
QRQILAVHLLQAVLPWDKTERARDMKCLMEKLFDFLGSLLTMCSSDVPLLRETLRRRR  
VCPQASLTATHSSTLAEVVALHHTLHSLTQWNGLINKYINSQLRSITHSFAGRPSKGAQ  
LEDYFPDSENPEVGGMLMAVLAVVGGIDGRCLGGQVVDHDFGEVTMTTRITLKGKITVQFS  
DMRTCHVCPLNQLKPLPAVAFNVNLPFTEPMLSVWAQLVNLGSKLEKHKIKKSTKQAF  
AGQVDLLLRCCQLKLYILKAGRALFSHQDKLRQILSQPAVQETGTVHTDDGAVVSPDLG  
DMSPEGPQPPMILLQQLLASATQSPVKAIFDKQELEERMSRCCFWRRRTTKLEQILLFI  
RRMNSVCEKENTNATASN

>sp|000198|HRK\_HUMAN Activator of apoptosis harakiri OS=Homo sapiens GN=HRK PE=1 SV=1  
MCPCPLHRGRGPPAVCACSAAGRLGLRSSAAQLTAARLKALGDELHQRTMWRRRRARSRRAP  
APGALPTYWPWLCAAQVAALAAWLLGRRNL

>sp|Q9UL19|HRSL4\_HUMAN Retinoic acid receptor responder protein 3 OS=Homo sapiens  
GN=RARRES3 PE=1 SV=1

MASPHQEPPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPPSEYPGAGSSSVFSVLSNSAEV  
KRERLEDVVGCCYRVNNSLDHEYQPRPVEV IISSAKEMVGQMKYSIVSRNCEHFVTQL  
RYGKSRCKQVEKAKVEVGVATLALGILVVAGCSFAIRRYQKKATA

>sp|Q92598|HS105\_HUMAN Heat shock protein 105 kDa OS=Homo sapiens GN=HSPH1 PE=1 SV=1

MSVVGDLVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHA  
NNTVSNFKRFHGRAFNDFPIQKEKENLSYDLVPLKNGGVGKVMYMGEEHLFSVEQITAM  
LLTKLKETAENSLKKPVTDVVISVPSFFTDERRSVLDAAQIVGLNCLRLMNDMTAVALN  
YGIYKQDLPSLDEKPRIVFVDMGHSAFQVSACAFNKGKLVLTAFDPFLGGKNFDEKL  
VEHFCAEFKTKYKLDASKIRALLRLYQECEKLKLMSSNSTDLPLNIECFMNDKDVSGK  
MNRSQFEELCAELLQKIEVPLYSLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGK  
DISTTLNADEAVARGCALQCAILSPAFAKVRFSVTDVAVFPISLIWNHDSDETEGVHEVF  
SRNHAAFPFSKVLTFLLRRGPFELEAFYSDPQGVPEAKIGRFVQNVSAQKDGEKSRVKV  
KVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPPENPDTDKNVQQDNSEAGT  
QPQVQTDAAQTSQSPPPELTSEENKIPDADKANEEKVDQPPEAKKPKIKVVNVELPIEA  
NLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDKNAVEEYVYEFKDLGCGPYEKFICEQ  
DHQNFRLRLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAERPKMFEEELG  
QRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMEWMNVMNAQAKKSLDQDPVV  
RAQEIKTKIKELNNTCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPFH  
QNGECYPNEKNSVNMDLD

>sp|Q9Y663|HS3SA\_HUMAN Heparan sulfate glucosamine 3-O-sulfotransferase 3A1 OS=Homo  
sapiens GN=HS3ST3A1 PE=1 SV=1

MAPPGPASALSTSAEPLSRIFRKLMLCSLLTSLYVFYCLAERCQTLSPVVGSLGGG  
EEAGAPGGGVLGGPRELAVWPAQAQKRLQLPQWRRRRPPAPRDDGEEAAWEEESPGL  
SGGPGGSGAGSTVAEAPPGTLALLLDEGSKQLPQAI IIGVKKGGTRALLEFLRVHPDVRA  
VGAEPHFFDRSYDKGLAWYRDLMPRTLGGQITMEKTPSYFVTREAPARISAMSKDTKLIV  
VVRDPVTRAISDYTQLSKRPDIPTFESLTFKNRTAGLIDTSWSAIQIGIYAKHLEHWLR  
HFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFCLKKAEGSSR  
PHCLGKTKGRTHPEIDREVVRLREFYRPFNLKFYQMTGHDGWDG

>sp|PODMV8|HS71A\_HUMAN Heat shock 70 kDa protein 1A OS=Homo sapiens GN=HSPA1A PE=1 SV=1  
MAKAAAIGIDLTTYSCVGVFHGKVEIIANDQGNRTTPSYAFTDTERLIGDAAKNQVA  
LNPQNTVFDKRLIGRKFGDPVQSDMKHWPQVINDGDKPKVQVSYKGETKAFYPEEIS  
SMVLTKMKEIAEAYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNLRIINEPTAAA  
IAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNH  
FVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA  
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDVLVGGSTRIPKVQKLLQDFFNGRDLN  
KSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTI  
PTKQTQIFTTYSNDQPGVLIQVYEGERAMTKDNLLGRFELSGIPPAPRGVPQIEVTFDI  
DANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAKEYKAEDVQRERVSAN  
ALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE  
QVCNPIISGLYQGAGGPGPGGFGAQQGPKGSGSGPTIEEVD

>sp|P48723|HSP13\_HUMAN Heat shock 70 kDa protein 13 OS=Homo sapiens GN=HSPA13 PE=1 SV=1  
MAREMTILGSAVLTLLLAGYLAQQYLPLTPKVIGIDLTTYCSVGVFFPGTGKVKVIPD  
ENGHISIPSMVSFTDNDVYVGYESVELADSNPQNTIYDAKRFIGKIFTAELEAEIGRYP  
FKVLNKNMGVEFSVTSNETITVSPEYVGSRLLLKLKEMAEAYLGMPVANAVISVPAEFDL  
KQRNSTIEAANLAGLKILRVINEPTAAAMAYGLHKADVHFVLVIDLGGGTLDVSLLNKQG  
GMFLTRAMSGNNKLGQDFNQRLQYLYKQIYQTYGFVPSRKEEIHRLRQAVEMVKLNL  
LHQAQLSVLLTVEEQDRKEPHSSDTELPKDKLSSADHRVNSGFGRLSDKKSSESQVL  
FETEISRKLFDLTNEDLFQKILVPIQQVLKEGHLEKTEIDEVVLVGGSTRIPRIRQVIQE  
FFGKDPNTSVDPLAVVTGVAIQAGIDGGSWPLQVSALEIPNKLQKTNFN

>sp|AOA0C4DH31|HV118\_HUMAN Immunoglobulin heavy variable 1-18 OS=Homo sapiens GN=IGHV1-18 PE=3 SV=1

MDWTWSILFLVAAATGAHSQVQLVQSGAEVKKPGASVKVSCKASGYTFTSYGISWVRQAP  
GQGLEWMGWISAYNGNTNYAQLKQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCAR

>sp|P01762|HV311\_HUMAN Immunoglobulin heavy variable 3-11 OS=Homo sapiens GN=IGHV3-11 PE=1 SV=2

MEFGLSWVFLVAIIKGVQCQVQLVESGGGLVKPGGSLRLSCAASGFTFSDYYMSWIRQAP  
GKGLEWVSYSISSSSYNTNYADSVKGRFTISRDNKNSLYLQMNSLRAEDTAVYYCAR

>sp|AOA0B4J1X8|HV343\_HUMAN Immunoglobulin heavy variable 3-43 OS=Homo sapiens GN=IGHV3-43 PE=3 SV=1

MEFGLSWVFLVAAILKGVQCEVQLVESGGVVVQPGGSLRLSCAASGFTFDDYTMHWVRQAP  
GKGLEWVSLISWDGGSTYYADSVKGRFTISRDNKNSLYLQMNSLRTEDTALYYCAKD

>sp|AOA075B6Q5|HV364\_HUMAN Immunoglobulin heavy variable 3-64 OS=Homo sapiens GN=IGHV3-64 PE=3 SV=1

MMEFGLSWVFLVAIFKGVQCEVQLVESGGLVQPGGSLRLSCAASGFTFSSYAMHWVRQA  
PGKGLETVSAISSNGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRAEDMAVYYCAR

>sp|Q00056|HXA4\_HUMAN Homeobox protein Hox-A4 OS=Homo sapiens GN=HXA4 PE=2 SV=3

MTMSSFLINSNYIEPKFPFFEEYAQHSGGGADGGPGGGPGYQQPPAPPTQHLPLQQPQL  
PHAGGGREPTASYAPRTAREPAYPAAALYPAHGAADTAYPYGYRGGASPRPPQPEQPP  
AQAKGPAHGLHASHVLQPQLPPPLQPRAVPPAAPRRCEAAPATPGVPAGGSAPACPLLLA  
DKSPLGLKGKEPVVYPMKKIHVSAVNPSYNGGEPKRSRTAYTRQQVLELEKEFHFNRYL  
TRRRRIEIAHTLCLSERQVKIWFQNRMKWKDKHLNPTKMRSSNSASASAGPPGKAQTQ  
SPHLHPHPHPSTSTPVPSSI

>sp|P20719|HXA5\_HUMAN Homeobox protein Hox-A5 OS=Homo sapiens GN=HOXA5 PE=1 SV=2

MSSYFVNSFCGRYPNGPDYQLHNYGDHSSVSEQFRDSASMHSGRYGYNGMDLSVGRSG  
SGHFGSGERARSYAASASAAPAEPRYSQPATSTHSPQPDPLPCSAVAPSPGSDSHHGKKN  
SLSNSSGASADAGSTHISSREGVGTASGAEDAPASSEQASAQSESPAPPAQPQIYPWM  
RKLHISHDNIGGPEGKRARTAYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLSERQIK  
IWFQNRMRMKWKDNKLKSMMAAGGAFRP

>sp|P31269|HXA9\_HUMAN Homeobox protein Hox-A9 OS=Homo sapiens GN=HOXA9 PE=1 SV=4

MATTGALGNYYVDSFLLGADADEL SVGRYAPGTLGQPPRQAATLAEHPDFSPCSFQSKA  
TVFGASWNPVHAAGANAVPAAVYHHHHHPYVHPQAPVAAAAPDGRYMRSWLEPTPGALS  
FAGLPSSRPYGIKPEPLSARRGDCPTLDTHLSLTDYACGSPPVDREKQPSEGAFFSENNA  
ENESGGDKPIDPNNPAANWLHARSTRKKRCPYTKHQLELEKEFLNMYLTRDRRYEVA  
RLLNLTERQVKIWFQNRMRMKMKINKDRAKDE

>sp|P09629|HXB7\_HUMAN Homeobox protein Hox-B7 OS=Homo sapiens GN=HOXB7 PE=1 SV=4

MSSLYANTLFSKYPASSSVFATGAFPEQTSCAFASNPQRPGYGAGSGASFAASMQLYP  
GGGGMAGQSAAGVYAAGYGLEPSSFNMHCAPFEQNLGVCPGDSAKAAGAKEQRDSLAA  
ESNFRIYPWMRSSGTDKRGRQTYTRYQTLELEKEFHYNRYLTRRRRIEIAHTLCLTERQ  
IKIWFQNRMRMKWKENKTAGPGTTGQDRAEAEAEAEAE

>sp|075409|HYPM\_HUMAN Huntingtin-interacting protein M OS=Homo sapiens GN=HYPM PE=1 SV=2

MSEKKNCKNSSTNNQTDPSRNLQVPRSFVDRVVDQDERDVQSQSSSTINTLLTLLDCL  
ADYIMERVGLEASNNNGSMRNTSQDREREVDNNREPHSAESDVTRFLFDEMPKSRKND

>sp|Q13651|I10R1\_HUMAN Interleukin-10 receptor subunit alpha OS=Homo sapiens GN=IL10RA  
PE=1 SV=2

MLPCLVLLAALLSLRLGSDAHGTELPSPSVWFEEFFHHILHWTPIPNQSESTCYEVA  
LLRYGIESWNSISNCSQTLSDYDLTAVTLDLYHSNGYRARVRAVDGSRHSNWTVTNTRFSV  
DEVTLTVGSVNLEIHNGFILGKIQLPRPKMAPANDTYESIFSHFREYEIAIRKVPGNFTF  
THKKVKHENFSLTSGEVGEFCVQVKPSVASRSNKGMSKEECISLTRQYFTVTNVIIF  
AFVLLLSGALAYCLALQLYVRRRKKLPVLLFKKPSPFIFISQRPSPETQDTIHPLDEEA  
FLKVSPELKNLDLHGSTDSGFGSTKPSLQTEEPQFLLPDPHPQADRTLGNREPPVLGDSC  
SSGSSNSTDSGICLQEPSLSPSTGPTWEQQVGSNSRGQDDSGIDLQNSEGRAGDTQGG  
ALGHHSPEPEVPGEEDPAAVAFQGYLRQTRCAEEKATKTGCLEESPLTDGLGPKFGRC  
LVDEAGLHPPALAKGYLKQDPLEMTLASSGAPTQWNPTEEWSLLALSSCDLGISDWS  
FAHDLAPLGCVAAPGGLGSFNSDLVTLPLISSLQSSE

>sp|P42701|I12R1\_HUMAN Interleukin-12 receptor subunit beta-1 OS=Homo sapiens GN=IL12RB1  
PE=1 SV=1

MEPLTVWVPLLFLFLLSRQGAACRTSECCFQDPYPDADSGSASGPRDLRCYRISSDRY  
ECWQYEGPTAGVSHFLRCCLSSGRCCYFAAGSATRLQFSDQAGVSVLYTVTLWVESWAR  
NQTEKSPEVTLLQYNSVKYEPPLGDIKVSCLAGQLRMWETPDNQVGAEVQFRHRTSPSP  
WKLGDGCPQDDDTESCLCPLEMNVAQEFQLRRRQLGSQGSWSKWSSPVCVPPENPPQPQ  
VRFSVEQLGQDGRRLTLKEQPTQLELPEGCQGLAPGTEVTYRLQLHMLSCPCAKATRT  
LHLGKMPYLSGAAYNAVVISNQFGPGLNQTHIPADTHTEPVALNISVGTNGTTMYWPA  
RAQSMTYCIEWQPVGQDGLATCSLTAPQDPDPAGMATYSWSRESGAMGQEKCYITIFA  
SAHPEKLTWSTVLSTYHFGGNASAGTPHHVSVKNHSLDSVSVDWAPSLSTCPGVLKE  
YVVRCDREDSKQVSEHPVQPTETQVTL SGLRAGVAYTVQVRADTAWLRGVWSQPQRFSIE  
VQVSDWLIFASLGSFLSILLVGVGLGLNRAARHLCPLPTPCASSAIEFPGGKETWQ

WINPVDFQEEASLQEALVVEMSWDKGERTEPLEKTELPEGAPELALDTELSLEDGDRCKA  
KM

>sp|P78552|I13R1\_HUMAN Interleukin-13 receptor subunit alpha-1 OS=Homo sapiens GN=IL13RA1  
PE=1 SV=1

MEWPARLCGLWALLLCAGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASS  
NCSLWYFSHFQDKQDKKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISP  
PEGDPESAVTELQCIWHNLSYMKCSWLPGRNTSPDTNYTLYYWHRSLEKIHQCENIFREG  
QYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSRVKPDPPHIKNLSFHN  
DDLIVQWENPQNFIISCLFYEEVNNSTETHNVFYVQEAECENPEFERNVENTSCFMVP  
GVLPTLNTVRIRVKTNKLCEYDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAI  
IVLLLYLKRLLKIIIFPPIPDPGKIFKEMFGDQNDLTHWKYDIYEKQTKEETDSVVLIE  
NLKKASQ

>sp|Q96F46|I17RA\_HUMAN Interleukin-17 receptor A OS=Homo sapiens GN=IL17RA PE=1 SV=2

MGAARSPPSAVPGPLLGLLLLLLVAPGGASLRLLDHRALVCSQPGLNCTVKNSTCLDD  
SWIHPRNLTPSSPKDLQIQLHFAHTQQGDLFPVAHIEWTLQTDASILYLEGAELSVLQLN  
TNERLCVRFEFLSKLRHHHRRWRFTFSHFVVDPDQEYEVTVHHLPKPIPDGDPNHQSKNF  
LVPDCEHARMKVTTPCMSSGSLWDPNITVETLEAHQLRVSTLWNESTHYQILLTSFPHM  
ENHSCFEHMHIPAPRPEEFHQRSNVTLRLNLKGCRRHQVQIQPFSSCLNDCLRHSAT  
VSCPEMPDTPEPIPDYMLVWYFITGISILLVGSVILLIVCMTWRLAGPGSEKYSDDTK  
YTDGLPAADLIPPLKPRKVWIIYSADHPLYVDVVLKFAQFLLTACGTEVALDLLEEQAI  
SEAGVMTWVGRQKQEMVESNSKIIIVLCSRGTRAKWQALLGRGAPVRLRCDHGKPVGDLFT  
AAMNMILPDFKRPACFGTYVVCYFSEVSCDGDVPDLFGAAPRYPLMDRFEEVYFRIQDLE  
MFQPGRMHRVGELSGDNYLRSPGGRQLRAALDRFRDWQVRCPDWFECENLYSADDQDAPS  
LDEEVFEEPLLPPGTGIVKRAPLVREPGSQACLAIDPLVGEEGGAATAKLEPHLQPRGQP  
APQPLHTLVLAEEGALVAAVEPGPLADGAAVRLALAGEGEACPLLSPGAGRNSVLFLP  
VDPEDSPLGSSTPMASPDLLPEDVREHLEGLMLSLFEQSLSCQAQGGCSRPAAMVLTDPHT  
PYEEEQRQSVQSDQGYISRSSQPPEGLTEMEEEEEEEQDPGKPALPLSPEDLESRLSLQ  
RQLLFRQLQKNSGWDTMGSESEGPSA

>sp|Q8NFM7|I17RD\_HUMAN Interleukin-17 receptor D OS=Homo sapiens GN=IL17RD PE=1 SV=3

MAPWLQLCSVFFTVNACLNGSQLAVAAGGSGRARGADTCGWRGVGPASRNSGLYNITFKY  
DNCTTYLNPVGKHVIADAQNITISQYACHDQVAVTILWSPGALGIEFLKGRVILEELKS  
EGRQCQQLILKDPKQLNSSFKRTGMESQPFLNMKFETDYFVKVVPFPSIKNESNYHPFFF  
RTRACDLLLPQDNLACKPFWKPRNLNISQHGSDMQVSFDHAPHNFGFRFFYLHYLKHGEG  
PFKRKTCKQEQTETTSCLLNVSPPGDIIELVDDTNTTRKVMHYALKPVHSPWAGPIRA  
VAITVPLVVISAFATLFTVMCRKKQENIYSHLDEESSESSTYTAALPRERLRPRPKVFL  
CYSSKDGQNHMNVVQCFAYFLQDFCGCEVALDLWEDFSLCREGQREWVIQKIHESQFIIV  
VCSKGMKYFVDKKNYKHGGGRSGSGKELFLVAVSAIAEKLRAKQSSAALSKFIAVYF  
DYSCEGDVPGILDSTKYRLMDNLPQLCSHLHSRDHGLQEPGQHTRQGSRRNYFRSKSGR  
SLYVAICNMHQFIDEEDPWFQKQFVFPFHPPLRYREPVLKFDGLVNDVMCKPGPESD  
FCLKVEAAVLGATGPADSQHEHQHGLDQDGEARPALDGSAAALQPLLHTVKAGSPSDMPR  
DSGIYDSSVPSSELSPLMEGLSTDQTETSSLTESVSSSSGLGEEPPALPSKLLSSGSC  
KADLGCRSYTDELHAVAPL

>sp|O95998|I18BP\_HUMAN Interleukin-18-binding protein OS=Homo sapiens GN=IL18BP PE=1 SV=2

MTMRHNWTPDLSPLWVLLCAHVVTLLVRATPVSTTTAATASVRSTKDPSPQPPVFPA

AKQCPALEVTWPEVEVPLNGTSLSCVACSRFPNFSILYWLNGSFIEHLPGRWEGSTS  
RERGSTGTQLCKALVLEQLTPALHSTNFSCVLVDPEQVVQRHVLAQLWAGLRATLPPTQ  
EALPSSHSSPQQQG

>sp|Q2TAA2|IAH1\_HUMAN Isoamyl acetate-hydrolyzing esterase 1 homolog OS=Homo sapiens  
GN=IAH1 PE=1 SV=1

MALCEAAGCGSALLWPRLLLFGDSITQFSFQQGGWGASLADRLVRKCDVLNRGFSGYNTR  
WAKIILPRLIRKGNSLDIPVAVTIFFGANDSALKDENPKQHIPLEEYAAANLKSVMYQLKS  
VDIPENRVILITPTPLCETAWEEQCIIQGCKLNRLNSVVGGEYANACLQVAQDCGTDVLDL  
WTLMQDSQDFSSYLSDGLHLSPKGNEFLFSHLWPLIEKKVSSPLLLPYWRDVAEAKPEL  
SLLGDGDH

>sp|Q9Y6W8|ICOS\_HUMAN Inducible T-cell costimulator OS=Homo sapiens GN=ICOS PE=1 SV=1

MKSGLYWFFFLCLRIKVLTEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQ  
ILCDLTKTKSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYFCNLSIFDPPPFK  
VTLTGGLHYHIESQLCCQLKFWLPIGCAAFVVCILGCILICWLTKKYSVSSVHDPNGEY  
MFMRAVNTAKKSRLTDVTL

>sp|Q02363|ID2\_HUMAN DNA-binding protein inhibitor ID-2 OS=Homo sapiens GN=ID2 PE=1 SV=1

MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMDCYSLKELVPSIPQNKVS  
KMEILQHVIDYILDQLALDSHTIVSLHHQRPQGNQASRTPLTTLNTDISILSLQASEF  
PSELMNSDSKALCG

>sp|Q02535|ID3\_HUMAN DNA-binding protein inhibitor ID-3 OS=Homo sapiens GN=ID3 PE=1 SV=2

MKALSPVRGCYEAVCCLSERSLAIARGRGKGPAAEEPLSLDDMNHCYSRLRELVPGVPR  
GTQLSQVEILQRVIDYILDQLVLAEPAPGPPDGPHLPIQTAELTPELVISNDKRSFCH

>sp|O43837|IDH3B\_HUMAN Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial OS=Homo  
sapiens GN=IDH3B PE=1 SV=2

MAALSGVRWLTRALVSAGNPGAWRGLSTSAAHAASRSQAEDVRVEGSFPVTMLPGDGVG  
PELMHAVKEVFKAAPVVEFQEHHLSEVQNMASEEKLQVLSSMKENKVAIIGKIHTPME  
YKGLASDYDMLRRKLDLFANVVHVKSPLPGYMRHNNLDLVIIEQTEGEYSSLEHESAR  
GVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLGDLFLQCCEEVAELY  
PKIKFETMIIDNCCMLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAYEY  
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRT  
RDMGGYSTTTDFIKSVIGHLQTKGS

>sp|O60841|EIF5B\_HUMAN Eukaryotic translation initiation factor 5B OS=Homo sapiens  
GN=EIF5B PE=1 SV=4

MGKKQKNKSEDSTKDDIDLALAAEIEGAGAAKEQEPQKSKGKKKKEKKKQDFDEDDILK  
ELEELSLEAQGIKADRETVAVKPTENNEEFTSKDKKKKGQKGGKQSFDDNDSELEDKD  
SKSKKTAKPKVEMYSGDDDDDFNKLPKKAKGAQKSNKKWDGSEEDDNSKKIKERSRI  
NSSGESGDESDEFLQSRKGQKNQKNKPGPNIESGNEDDDASFKIKTVAQKKAEEKERER  
KKRDEEKAKLRKLKEKEELETGKKDQSKQKESQRKFEEETVSKVTVDTGVIPASEEKAE  
TPTAAEDDNEGDKKKKDKKKKKGEKEKEKEKKGPSKATVKAMQEALAKLKEEERQKR  
EEEEIKRLEELEAKRKEEERLEQEKREKKQKEKERKERLKKEGKLLTKSQREARARAE  
ATLKLQAQGVVPSKDSLPPKRPYEDKKRKKIPQQLSKESVSESMELCAAVEVMEQGV  
PEKEETPPPVEPEEEEDTEDAGLDDWEAMASDEETKVEGNKVHIEVKENPEEEEEEEEE  
EEEEEESEEEEEEGESEGEDEDEKVSDEKDSGKTLDDKPSKEMSSSEYDSDDDRT  
KEERAYDKAKRRIEKRRLEHKNVNTKLRAPIICVLGHVDTGKTKILDKLRHTHVQDGE

AGGITQQIGATNPLEAINEQTKMIKNFDRENVRIPGMLIIDTPGHESFSNLRNRGSSLC  
DIAILVVDIMHGLEPQTIESINLLKSKKCPFIVALNKIDRLYDWKKSPDSVAATLKKQK  
KNTKDEFEERAKAIIVEFAQQGLNAALFYENKDPRTFVSLVPTSAHTGDGMGSLIYLLVE  
LTQTMLSKRLAHCEELRAQVMEVKALPGMGTTIDVILINGRLKEGDTIIVPGVEGPVITQ  
IRGLLLPPPMKELRVKNQYEHKEVEAAQGVKILGKDLEKTLAGLPLLVAYPEDEIPVLK  
DELIHELKQTLNAIKLEEGVYVQASTLGSLEALLEFLKTSEVPYAGINIGPVHKKDVMK  
ASVMLEHDPQYAVILAFDVRIERDAQEMADSLGVRIFSAEIIYHLFADFQYRQDYKKQK  
QEEFKHIAVFPCIKILPQYIFNSRDPIVMGVTVEAGQVKQGTMCVPSKNFVDIGIVTS  
IEINHKKQVDVAKKGQEVCKIEPIPGESPKMFGRHFEATDILVSKISRQSIDALKDWFRD  
EMQKSDWQLIVELKKVFEII

>sp|Q9H496|IFG15\_HUMAN Torsin-1A-interacting protein 2, isoform IFRG15 OS=Homo sapiens  
GN=TOR1AIP2 PE=1 SV=1

MFSDNSHCPCDGGQWFPSELELGHWLYQTELVENEYQVFLDRINRADYCPECYPDNPANR  
SLVLPWSFPLEWAPQNLTRWTFEKACHPFLGPPLVRKRIHDSRVAGFNPALQLILTRTD  
KTLNKKLGQNK

>sp|P40305|IFI27\_HUMAN Interferon alpha-inducible protein 27, mitochondrial OS=Homo sapiens  
GN=IFI27 PE=2 SV=3

MEASALTSSAVTSVAKVVRVASGSAVVLPLARIATVVIGGVAVPMVLSAMGFTAAGIAS  
SSIAAKMMSAAAIAANGGGVASGSLVATLQSLGATGLSGLTKFILGSIGSAIAAVIARFY

>sp|Q8TCB0|IFI44\_HUMAN Interferon-induced protein 44 OS=Homo sapiens GN=IFI44 PE=2 SV=2

MAVTTRLTWLHEKILQNHFGGKRLSLLYKGSVHGFRNGVLLDRCCNQGPTLTVIYSEDHI  
IGAYAEESYQEGKYASIIILFALQDTKISEWKLGLCTPETLFCCDVTKYNSPTNFQIDGRN  
RKVIMDLKTMENGLAQNCTISIQDYEVFRCEDSLDERKIKGVIELRKSLLSALRTYPEY  
GSLVQQIRILLGLPIGAGKSSFFNSVRSVFQGHVTHQALVGTNTTGISEKYRTYSIRDGK  
DGKYLPIFLCDLGLSEKEGGLCRDDIFYILNGNIRDYQFNPMESIKLNHHDYIDSPSL  
KDRIHCVAFVFDASSIQYFSSQMIVKIKRIRRELVNAGVVHVALTHVDSMDLITKGDLI  
EIERCEPVRSKLEEVQRKLGFAISVSVSNYSSEWELDPVKDVLILSALRRMLWAADD  
LEDLPFEQIGNLREEIINCAQGKK

>sp|Q01629|IFM2\_HUMAN Interferon-induced transmembrane protein 2 OS=Homo sapiens  
GN=IFITM2 PE=1 SV=2

MNHIVQTFSPVNSGQPPNYEMLKEEQEVA MLGVPHNPAPPMSTVIHIRSETSVPDHVVWS  
LFNTLFMNTCCLGFIAFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGIFMTILL  
IIIPVLVVQQR

>sp|P57058|HUNK\_HUMAN Hormonally up-regulated neu tumor-associated kinase OS=Homo sapiens  
GN=HUNK PE=2 SV=1

MPAAAGDGLGEPAAAPGGGGAEDAAPAAACEGSFLPAWVSGVPRERLRDFQHHKRVGN  
YLIGSRKLGEFSFAKVRGLHVLTEKVAIKVIDKKRAKKDITYVTKNLRREGQIQQMIRH  
PNITQLLDILETENSYYLMELCPGGNLMHKIYEKKRLEESEARRYIRQLISAVEHLHRA  
GVVHRDLKIENTLLDEDNNIKLIDFGLSNCAGILGYSDPFSTQCGSPAYAAPELLARKKY  
GPKIDVWSIGVNMAYMLTGTLPTFVEPFSRLALYQKMVDKEMNPLTQLSTGAISFLRSL  
LEPDPVKRPNIQQALANRWLNENYTGKVPNCVTYPNRILEDLSPSVVLMTEKLGKNS  
DVINTVLSNRACHILAIYFLLNKKLERYLSGKSDIQDSLCKYTRLYQIEKYRAPKESYEA  
SLDTWTRDLEFHAVQDKKPKKEQEKRGDFLHRPFSKKLDKNLPSHKQPSGSLMTQIQNTKA  
LLKDRKASKSSFPDKDSFGCRNIFRKTSDSNCAVSSSMEFIPVPPPTPRIVKKPEPHQP



GPSTGIPHKEDPLMLDMVRSFESVDRDDHVEVLSPSHHYRILNSPVSLARRNSSERTLS  
PGLPSGMSPLHTPLHPTLVSFHEDKNSPPKEEGLCCPPVPVPSNGPMQPLGSPNCVKSR  
GRFPMMGIGQMLRKRHQSLQPSADRPLEASLPPLQPLAPVNLAFDMADGVKTQC

>sp|P14652|HXB2\_HUMAN Homeobox protein Hox-B2 OS=Homo sapiens GN=HOXB2 PE=1 SV=1

MNFEFEREIGFINSQPSLAECLETSPFAVLETFQTSSIKESTLIPIPPPPFEQTFPSLQPGA  
STLQRPRSQKRAEDGPALPPPPPPPLPAAPPAPEFPWMKEKKSAKKPSQSATSPPAASA  
VPASGVGSPADGLGLPEAGGGGARRLRTAYTNTQLLELEKEFHFNKYLCRPRRVEIAALL  
DLTERQVKVWFQNRMRKHKRQTHREPPDGEPACPGALEDICDPAEPPAASPGGPSASRA  
AWEACHPPEVVPGALSADPRPLAVRLEGAGASSPGCALRGAGGLEPGPLPEDVFSGRQD  
SPFLPDLNFFAADSCLQLSGGLSPSLQGSLSDPVPFSEELDFFTSTLCAIDLQFP

>sp|043248|HXC11\_HUMAN Homeobox protein Hox-C11 OS=Homo sapiens GN=HOXC11 PE=1 SV=1

MFNSVNLGNFCSPSRKERGADFGERGSCASNLYLPCTYYMPEFSTVSSFLPQAPSRQIS  
YPYSAQVPPPREVSYLEPSGKWHHRNSYSSCYAAADELMHRECLPPSTVTEILMKNEGS  
YGGHHHSAPHATPAGFYSSVKNKSVLPQAFDRFFDNAYCGGDPPAEPPCSGKGEAKGE  
PEAPPASGLASRAEAGAEAEAEENTNPSSSGSAHSVAKPAKGAAPNAPRTRKKRCPYS  
KFQIRELEREFFNVYINKEKRLQLSRMLNLTDRQVKIWFQNRMRKEKKLSRDLQYFSG  
NPLL

>sp|P47928|ID4\_HUMAN DNA-binding protein inhibitor ID-4 OS=Homo sapiens GN=ID4 PE=1 SV=1

MKAVSPVRPSGRKAPSGCGGELALRCLAEHGSLGGSAAAAAAAAARCKAAEAADPEP  
ALCLQCDMNDYCYSRLRLVPTIPPNNKVKVEILQHVIDYILDQLALETHPALLRQPPP  
PAPPHHPAGTCPAAPRPTLTALNTDPAGAVNKQGDSILCR

>sp|P98153|IDD\_HUMAN Integral membrane protein DGCR2/IDD OS=Homo sapiens GN=DGCR2 PE=1  
SV=1

MVPKADSGAFLLLFLVLVTVEPLRPELRCPNGQFACRSGTIQCIPLPWQCDGWATCEDE  
SDEANCP EVTGEVRPHHGKEAVDPRQGRARGGDP SHFHAVNVAQPVRFSSFLGKCP TGWH  
HYEGTASCYRVYLSGENYWDAQTCQRLNGSLATFSTDQELRFVLAQEWDPERSFGWKD  
QRKLWVGYYVITGRNRSLEGRWEVAFKGSSEVFLPPDPIFASAMSENDNVFCAQLQCFH  
FPTLRHHDLSWHAESCYEKSSFLCKRSQTCVDIKDNVDEGFYFTPKGDDPCLSCTCHG  
GPEMCVAALCERPQGCQYRKDPKECKFMCLDPDGNLFDMSAGMRLVVSCISSFLI  
LSLLLFMVHRLRQRRRERIESLIGANLHHFNLGRRIPGFDYGPDGFGTGLTPLHLSDDGE  
GGTFHFHDPPPPYTAYKYPIDIGQPDDPPPPYEASIHPSVFDYPADDDAFEPVEVSLPAP  
GDGGSEGALLRRLQPLPTAGASLADLEDSADSSSALLVPPDPAQSGSTPAEALPGGGR  
HSRSSLNTVV

>sp|P51553|IDH3G\_HUMAN Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial  
OS=Homo sapiens GN=IDH3G PE=1 SV=1

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRHVTMI  
PGDGIGPELMLHVKS VFRHACVPVDFE EVHVSSNADEEDIRNAIMAIRNRVALKGN IET  
NHNLP PSHKSRN ILRTSLDYANVIHCKSLPGVVTRHKDIDILIVRENTEGEYSSLEHE  
SVAGVVESLKIITKAKSLRIA EYAFKLAQESGRKKVTAVHKANIMKLG DGLFLQCCREVA  
ARYPQITFENMIVDNTT MQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG  
HVYAVFETATRTNGKSIANKNIANPTATLLASCMMLDHLKLHSYATSIRKAVLASMDNEN  
MHTPDIGGQGT TSEATQDVIRHIRVINGRAVEA

>sp|P22304|IDS\_HUMAN Iduronate 2-sulfatase OS=Homo sapiens GN=IDS PE=1 SV=1

MPPPRTRGRLWLGLVLSSVCVALGSETQANSTTDALNVLLIIVDDLRLPSLGCYGDKLVR

SPNIDQLASHSLLFQNAFAQQAVCAPSRVSFLTGRRPDTRLYDFNSYWRVHAGNFSTIP  
QYFKENGYVTMSVGKVFHPGISSNHTDDSPYSWSFPPYHPSSEKYENTKTCRGPDGELHA  
NLLCPVDVLDVPEGTLPDKQSTEQAIQLLEKMKTSASPFFLAVGYHKPHIPFRYPKEFQK  
LYPLENITLAPDPEVPDGLPPVAYNPWMDIRQREDVQALNISVPYGPVPDFQRKIRQSY  
FASVSYLDTQVGRLLSALDDLQLANSTIIAFTSDHGWALGEHGEWAKYSNFDVATHVPLI  
FYVPGRTASLPEAGEKLFYPYLDPFDSASQLMEPGRQSMDELVSFLPTLAGLAGLQVPP  
RCPVPSFHVLCREGKNLLKHFRFRDLEEDPYLPGNPRELIAYSQYPRPSDIPQWNSDKP  
SLKDIKIMGYSIRTIDYRYTVWVGFPNDEFNLANFSDIHAGELYFVDSDDLQDHNMYNDSQ  
GGDLFQLLMP

>sp|Q5T953|IER5L\_HUMAN Immediate early response gene 5-like protein OS=Homo sapiens  
GN=IER5L PE=2 SV=1

MECALDAQSLISISLRKIHSSRTQGGIKLHKNLLVSYVLRNARQLYLSERYAELYRRQQ  
QQQQQQPPHHQHQLAYAAPGMPASAADFGPLQLGGGGDAEAREPAARHQLHQLHQLHQL  
HLQQQLHQHHPAPRGCAAAAAAGAPAGGAGALSELPGCAALQPPHGAPHRGQPLEPLQP  
GPAPLPLPLPPPAPAALCPRDPRAPAACSAAPGAAPAAAAASPAPASSPGFYRGAY  
PTPSDFGLHCSSQTTVLDDLTHVTTVENGYLHQCCASAHCPCCGQGAPGGLASAAGC  
KRKYYPGQEEEEDEEDAGGLGAEPGGAPFAPCKRARFEDFCPDSSPDASNISNLISIF  
GSGFSGLSVRQPDSEQPPPLNGQLCAKQALASLGAWTRAIVAF

>sp|Q5VY09|IER5\_HUMAN Immediate early response gene 5 protein OS=Homo sapiens GN=IER5  
PE=1 SV=3

MEFKLEAHRIVSISLGKIYNSRVQRGGIKLHKNLLVSLVLRSAQVYLSGPCGLYLAGP  
AGTPAPPPQQQPGEPAAGPPAGWGEPPPPAARASWPETEPQPERSSVSDAPRVGDEVPVA  
TVTGVGDVFQGGEDATEAAWSRVEGPRQAAAREAGTAGGWGVFPEVSRAARRPCGCPL  
GGEDPPGTPAATPRAACCCAPQPAEDEPPAPPAVCPKRCAAGVGGGPAGCPAPGSTPLK  
KPRRNLEQPPSGGEDDDAEEMETGNVANLISIFGSSFSGLLRKSPGGGREGEEEGESGPE  
AAEPGQICCDKPVLRDMNPWSTAIVAF

>sp|O14602|IF1AY\_HUMAN Eukaryotic translation initiation factor 1A, Y-chromosomal OS=Homo  
sapiens GN=EIF1AY PE=1 SV=4

MPKNKGKGGKNRRRGKNENESEKRELVFKEDGQEYAQVIKMLGNRLEALCFDGVKRLCH  
IRGKLRRKVVINTSDIILVGLRDYQDNKADVILKYNADARSCLKAYGELPEHAKINETDT  
FGPGDDDEIQFDDIGDDDEDIDDI

>sp|Q14240|IF4A2\_HUMAN Eukaryotic initiation factor 4A-II OS=Homo sapiens GN=EIF4A2 PE=1  
SV=2

MSGGSADYNREHGGPEGMDPDGVIESNWNEIVDNFDDMNLKESLLRGIYAYGF EKPSAIQ  
QRAIIPCICKGYDVIAQAQSGTGKTATFAISILQQLIEFKETQALVLAPTRELAQQIQKV  
ILALGDYMGATCHACIGGTNVRNEMQKLQAEAPHIVVGTTPGRVFDMLNRRYLSPKWKMF  
VLDEADEMLSRGFKDQIYEIFQKLNTSIQVVLLSATMPTDVLEVTKKFMRDPIRILVKKE  
ELTLEGIKQFYINVEREEWKDLTCLDYETLTITQAVIFLNTRRKVDWLTEKMHARDFTV  
SALHGDMQKERDVMREFRSGSSRVLITDILLARGIDVQQVSLVINYLPTNRENYIHR  
IGRGGFRGRKGVAINFVTEEDKRILRDIETFYNTTVEEMPMNVADLI

>sp|O60573|IF4E2\_HUMAN Eukaryotic translation initiation factor 4E type 2 OS=Homo sapiens  
GN=EIF4E2 PE=1 SV=1

MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTERDKNQSSSKRKAVVPGPAEHPLQYNY  
TFWYSRRTPGRPTSSQSYEQNIKQIGTFASVEQFWRFYSHMVRPGDLTGHSDFHLFKEGI

KPMWEDDANKNGKWIIRLRKGLASRCWENLILAMLGEQFMVGEEICGAVVSVRFQEDII  
SIWNKTASDQATTARIRDTLRRVLNLPNTIMEYKTHTDISKMPGRLGPQRLLFQNLWKP  
RLNVP

>sp|P01570|IFN14\_HUMAN Interferon alpha-14 OS=Homo sapiens GN=IFNA14 PE=1 SV=3  
MALPFALMMALVVLSCSSCSLGCNLSQTHSLNNRRTLMMAQMRRISPFSCCLKDRHDFE  
FPQEEFDGNQFQKAQAISVLHEMMQQTFFNLSTKNSSAAWDETLLKFFYIELFQQMNDLE  
ACVIEVGVVEETPLMNEDSILAVKKYFQRITLYLMEKKYSPCAWEVVRAEIMRSLSFSTN  
LQKRLRRKD

>sp|P05000|IFNW1\_HUMAN Interferon omega-1 OS=Homo sapiens GN=IFNW1 PE=1 SV=2  
MALLFPLLAALVMTSYSPVGSGLCDLPQNHGLLSRNTLVLLHQMRRISPFCLKDRRDFR  
FPQEMVKGSQQLKAHVMSVLHEMLQQIFSLFHTERSAAWNMTLLDQLHTGLHQQQLQHLE  
TCLLQVVGEGESAGAISSPALTLRRYFQGI RVYLKEKKYSDCAWEVVRMEIMKSLFLSTN  
MQRRLRSKDRDLGSS

>sp|Q13099|IFT88\_HUMAN Intraflagellar transport protein 88 homolog OS=Homo sapiens  
GN=IFT88 PE=2 SV=2

MKFTNTKVQMMQNVHLAPETDEDDLYSGYNDYNPIYDIEELENDAAFQQAVRTSHGRPP  
ITAKISSTAVTRPIATGYGSKTSLASSIGRPMTGAIQDGVTRPMTAVRAAGFTKAALRGS  
AFDPLSQSRGPASPLEAKKKDSPEEKIKQLEKEVNELVEESCIANSCGDLKLALEKAKDA  
GRKERVLVQRREQVTTPENINLDLTYSVLFNLASQYSVNEMYAEALNTYQVIVKNKMFSN  
AGILKMNMGNIYLKQRNYSKAIKFYRMALDQVPSVNMKQMRIMQNIQVTFIQAGQYSDA  
INSYEHIMSMAPNLKAGYNLTICYFAIGDREKMKAFQKLITVPLEIDEDKYISPSDDPH  
TNLVTEAIKNDHLRQMERERKAMAEKYIMTSAKLIAPV IETSFAAGYDWCVEVVKASQYV  
ELANDLEINKAVTYLRQKDYNAVEILKVLEKKDSRVKSAAATNLSALYYMGKDFQAQASS  
YADIAVNSDRYNPAALTNGNTVFANGDYEKAAEFYKEALRNDSSCTEALYNIGLTYEKL  
NRLDEALDCFLKLHAILRNSAEVLYQIANIYELMENPSQAIEWLMQVVS IPTDPQVLSK  
LGELYDREGDKSQAFQYYYESYRYFPCNIEV IEWL GAYYIDTQFWEKAIQYFERASLIQP  
TQVKWQLMVASCFRRSGNYQKALD TYKDTHRKF PENVECLRFLVRLCTDLGLKDAQEYAR  
KLKRLEKMKI EIREQRIKSGRDGSGGSRGKREGSASGDSGQNYSSASKGERLSARLRALPG  
TNEPYESSNKEIDASYVDPLGPQIERPKTAAKKRIDEDDFADEELGDDLLPE

>sp|P27352|IF\_HUMAN Gastric intrinsic factor OS=Homo sapiens GN=GIF PE=1 SV=2

MAWFALYLLSLLWATAGTSTQTQSSCSVPSAQEPLVNGIQVLMENSVTSSAYPNPSILIA  
MNLGAYNLKAQKLLTYQLMSSDNDLTIGQLGLTIMALTSSCRDPGDKVSILQRQMENW  
APSSPNAEASAFYGPSLAILALCQKNSEATLPIAVRFAKTLLANSSPFNVDTGAMATLAL  
TCMYNKIPVGSEEGYRSLFGQVLKDIVEKISMKIKDNGIIGDIYSTGLAMQALSVTPEPS  
KKEWNCKKTTDMILNEIKQGKFHNPMISIAQILPSLKGKTYLDVPQVTCSPDHEVQPTLPS  
NPGPGPTSASNITVIYTINNQLRGVELLFNETINVS VKSGSVLLVLEE AQRKNPMFKFE  
TTMTSWGLVVSSINNI AENVNHKTYWQFLSGVTPLNEG VADYIPFNHEHITANFTQY

>sp|Q8IVU1|IGDC3\_HUMAN Immunoglobulin superfamily DCC subclass member 3 OS=Homo sapiens  
GN=IGDCC3 PE=2 SV=2

MAVQRAASPRRPPAPLWPRLLLPLLLLLLPAPSEGLGHS AELAF AVEPSDDVAVPGQPIV  
LDCRVEGTPPVRI TWKNGVELPESTHSTLLANGSLMIRHFRLEPGGSPSDEGDYECVAQ  
NRFGLVVSRKARIQAATMSDFHVPQATVGEEGVARFQCQIHGLPKPLITWEKNRVPID  
TDNERYTLLPKGVLQITGLRAEDGGIFHCVASNIASIRISHGARLTVSGSGSGAYKEPAI  
LVGPENLTLTVHQTAVLECVATGNPRPIVSWSRLDGRPIGVEGIQVLGTGNLIISDVTVQ

HSGVYVCAANRPGTRVRRTAQGRLVVQAPAEFVQHPQSI SRPAGTTAMFTCQAQGEPPPH  
VTWLKNGQVLGPGGHVRLKNNNSTLTISGIGPEDEAIYQCV AENSAGSSQASARLTVLWA  
EGLPGPPRNVRAVSVSSTEVRVSWSEPLANTKEIIGYVLHIRKAADPPELEYQEAVSKST  
FQHLVSDLEPSTAYSFYIKAYTPRGASSASVPTLASTLGEAPAPPPLSVRVLGSSSLQLL  
WEPWPRLAQHEGGFKLFYRPASKTSFTGPILLPGTVSSYNLSQLDPTAVYEVKLLAYNQH  
GDGNATVRFVSLRGASERTALSPPCDCRKEEAAQTSTTGIVIGIHIGVTCIIFCVLFLL  
FGQGRVLLCKDVENQLSPPQGPRSQRDPGILALNGARRGQRGQLGRDEKRVD MKELEQL  
FPPASAAGQPDPRPTQDPAAPAPCEETQLSVLPLQGCGLMEGKTTEAKTTEATAPCAGLA  
AAPPPDGGPGLLSEGQASRPAAARVTQPAHSEQ

>sp|Q96ID5|IGS21\_HUMAN Immunoglobulin superfamily member 21 OS=Homo sapiens GN=IGSF21  
PE=2 SV=1

MRTAPSLRRCVCLLLAAILDLARGYLTVNIEPLPPVAVGDAVTLKCNFKTDGRMREIVWY  
RVTDDGGTIKQKIFTDFAMFSTNYSHMENYRKREDLVYQSTVRLPEVRISDNGPYECHVGI  
YDRATREKVVLASGNIFLNVMAPPTSIEVVAADTPAPFSRYQAQNF TLVCIVSGGKPAPM  
VYFKRDGEPIDAVPLSEPPAASSGPLQDSRPFRSLLHRDLDDTKMQKSLSLDAENRGR  
PYTERPSRGLTPDPNILLQPTTENIPETVVSREFPRWVHSAEPTYFLRHSRTPSSDGTVE  
VRALLTWTLNPQIDNEALFSCVHKPALSMMPQAEVTLVAPKGPKIVMTPSRARVGD TVR  
ILVHGFQNEVFPEPMFTWTRVGSRLLDGSAEFDGKELVLERVPAELNGSMYRCTAQNPLG  
STDTHTRLIVFENPNIPRGTEDSNGSIGPTGARLTLVLALT VILELT

>sp|O95976|IGSF6\_HUMAN Immunoglobulin superfamily member 6 OS=Homo sapiens GN=IGSF6 PE=2  
SV=2

MGTASRSNIARHLQTNLILFCVGAVGACTLSVTQPWYLEVDYTHEAVTIKCTFSATGCPS  
EQPTCLWFRYGAHQPENLCLDGCKSEADKFTVREALKENQVSLTVNRVTSNDSAIYICGI  
AFPSVPEARAKQTGGGTTLVVREIKLLSKELRSFLTALVSLSVYVTGVCVAFILLSKSK  
SNPLRNKEIKEDSQKKKSARRIFQEIAQELYHKRHVETNQQSEKDNNTYENRRVLSNYER  
P

>sp|O15111|IKKA\_HUMAN Inhibitor of nuclear factor kappa-B kinase subunit alpha OS=Homo  
sapiens GN=CHUK PE=1 SV=2

MERPPGLRPGAGGPWEMRERLTGGFGNVCLYQHRELDLKIATKSCRLELSTKNRERWCH  
EIQIMKKLNHANVVKACDVPEELNILIHDVPLLAMEYCSGGDLRKLLNKPENCCGLKESQ  
ILSLLSDIGSGIRYLHENKIIHRDLKPENIVLQDVGGKIIHKIIDLGYAKDVDQGS LCTS  
FVGTLLQYLAPELFENKPYTATVDYWSFGTMVFECIAGYRPFLHHLQPFTWHEKIKKKDPK  
CIFACEEMSGEVRFSSHLPQPNLSCLSVPEPMENWLQMLNWDPPQRGGPVDLTLKQPRC  
FVLMDHILNLKIVHILNMTSAKIIISFLLPPDESLHSLQSRIERETGINTGSQELLSETGI  
SLDPRKPASQCVLDGVRGCDSYMVYLFDKSKTVYEGPFASRSLSDCVNYIVQDSKIQLPI  
IQLRKVWAEAVHYVSGLKEDYSRLFQGQRAAML SLLRYNANLTKMKNTLISASQQLKAKL  
EFFHKS IQLDLERYSEQMTYGISSEKMLKAWKEMEKA IHYAEVGVIGYLEDQIMSLHAE  
IMELQKSPYGRRGQDLMESLEQRAIDLKQLKHRPSDHSYSDSTEMVKIIVHTVQSQDRV  
LKELFGHLSKLLGCKQKIIDLLPKVEVALSNIKEADNTVMFMQGKRQKEIWHL LKIACTQ  
SSARSLVGSSLEGAVTPQTSAWLPPTSAEHDHSLSCVVT PQDGETSAQMIEENLNCLGHL  
STIIHEANEEQGNMMLNDWSWLTE

>sp|Q9POM4|IL17C\_HUMAN Interleukin-17C OS=Homo sapiens GN=IL17C PE=1 SV=1  
MTLLPGLLFLTWLHTCLAHHPSLRGHPHSHGTPHCYSAEELPLGQAPP HLLARGAKWGQ  
ALPVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRY

PQKLAFAECLRCGCIDARTGRETAALNSVRLLQSLVLRRRPCSRDGSGLPTPGAFAFHT  
EFIHVPVGCTCVLPRSV

>sp|Q9H293|IL25\_HUMAN Interleukin-25 OS=Homo sapiens GN=IL25 PE=1 SV=1

MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKQDTSEELLRWSTVPVP  
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT  
GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG

>sp|A1LOTO|ILVBL\_HUMAN Acetolactate synthase-like protein OS=Homo sapiens GN=ILVBL PE=1  
SV=2

METPAAAAAGSLFPSFLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVAA  
VLRAHGVRFIFTLVGGHISPLLFACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAV  
TAGPGLTNTVTAVKNAQMAQSPILLGGAASTLLQNRGALQAVDQLSLFRPLCKFCVSVR  
RVRDIVPTLRAAMAAQSGTPGPVFVELPVDVLYPYFMVQKEMVPAKPPKGLVGRVVS  
WY LENYLANLFAGAWEPQPEGPLPLDIPQASPQQVQRCVEILSRAKRPLMVLGSQALLTPTS  
ADKLRAAVETLGVPCFLGGMARGLLGRNHPLHIRENRSALKKADVIVLAGTVCDFRLSY  
GRVLSHSSKIIIVNRNREMLNSDIFWKPQEAQGDVGSFVLKLEGLQGQTWAPDWVE  
ELREADRQKEQTFREKAAMPVAQHLNPVQVLQLVEETLPDNSILVVDGGDFVGTAAHLVQ  
PRGPLRWLDPGAFGLTGVGAGFALGAKLCRPDAEVWCLFGDGAFGYSLIEFDTFVRHKIP  
VMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV  
LHDAQQQCRDGHVPPVNNILIGRTDFRDGSI

>sp|Q96LU5|IMPI1\_HUMAN Mitochondrial inner membrane protease subunit 1 OS=Homo sapiens  
GN=IMPI1 PE=2 SV=1

MLRGVLGKTFRLVGYTIQYGCIAHCAFEYVGGVVMCSGPSMEPTIQNSDIVFAENLSRHF  
YGIQRGDIVIAKSPSPDKSNICKRVIGLEGDKILTTSPSDFFKSHSYVPMGHVWLEGDNL  
QNSTDSRCYGIPIYGLIRGRIFFKIWPLSDFGFLRASPNGHRFSDD

>sp|Q53TQ3|IN80D\_HUMAN INO80 complex subunit D OS=Homo sapiens GN=INO80D PE=1 SV=2

MYEGKHIHFSEVDNKPLCSYSPKLCQRRNLGYAFCIRHVLEDKTAPFKQCEYVAKYNSQ  
RCTNPIPKSEDRRYCNSHLQVLGFIPKKERKKKNDPIDEVKVRHQMDTMAFSLTVPTLAL  
KMPNGLDGMSLSPPGARVPLHYLETELEDPFAFNEEDDLKKGATVRKKLQSKLAQNRQR  
QRETEILKVRQEHSFPAPSPQPPQSHLSPLSTSLKPPAPPQGSVCKSPQPQNTSL  
PMQGVAPTTHITIAQARQLSHKRPLPLPSSRAPTVDPPTDRILMKATAFSPHFSCISRL  
QRLVKLCTQKHQLDLDLPHLGLDWSEESGEEPEDSEQASPYQVAWSIRETLRYQRHASD  
DDDAESRSSRVTQLCTYFQKKYKHLCLERAESRQKKCRHTFRKALLQAASKEPECTGQL  
IQELRRAACSRTSISRKLREVEPAACSGTVKGEQCANKALPFTRHCFQHILLNHSQQLF  
SSCTAKFADGQQCSVPVFDITHQTPLCEEHAKKMDNFLRGDNSRKVQHQQQRKPRKTKP  
PALTKKHKKRRRGPRRPQKPIPPAVPQGNLSMPASVSLPVEASHIRSPSTPELSADELP  
DDIANEITDIPHDLELNQEDFSDVLPRLPDDLQDFDFEGKNGDLLPTTEEAEELEALQ  
AVTSLECLSTIGVLAQSDGVPVQELSDRGIGVFSTGTGASGIQSLSREVNTDLGELLNGR  
IVHDNFSSLELDENLLRSATLSNPPTPLAGQIQGQFSAPANVGLTSATLISQSALGERAF  
PGQFHGLHDGSHASQRPHPAQLLSKADDLITSRQQYSSDHSHPGSHYDSEHVPSPYS  
DHITSPTTSYSGDNMAAPVCFRGYHRPASVAWGLLN

>sp|Q9UK53|ING1\_HUMAN Inhibitor of growth protein 1 OS=Homo sapiens GN=ING1 PE=1 SV=2

MSFVECPYHSPAERLVAEADGGPSAITGMGLCFRCLLFSFSGRSGVEGGRVDLNVFGSL  
GLQPWIGSSRCWGGPCSSALRCGWSSWPPPSKSAIPIGGSRGAGRVSRWPPPHWLEAW  
RVSPPLSPSPATFGRGFI

WGRAWPWKQILKELDECYERFSRET DGAQKRRMLHCVQRALIRSQELGDEKIQIVSQMVE  
LVENRTRQVDSHVELFEAQQELGDTAGNSGKAGADRPKGEEAAQADKPNSKRSRRQRNNE  
NRENASSNHDHDDGASGTPKEKKAKTSKKKKRSKAKAEREASPADLPIDPNEPTYCLCNQ  
VSYGEMIGCDNDECEPIEFWFHFCVGLNHKPKGKWYCPKCRGENEKTMDKALEKSKKERAY  
NR

>sp|P09529|INHBB\_HUMAN Inhibin beta B chain OS=Homo sapiens GN=INHBB PE=1 SV=2

MDGLPGRALGAACLLLLAAGWLGPEAWGSPTPPPTPAAPPPPPPGSPGGSQDTCTSCGG  
FRRPEELGRVDGDFLEAVKRHILSRLQMRGRPNITHAVPKAAMVTALRKLHAGKVREDGR  
VEIPHLDGHASPGADGQERVSEIISFAETDGLASSRVRLYFFISNEGNQNLFVVQASLWL  
YLKLLPYVLEKGSRRKVRVKVYFQEQQGHGDRWNMVEKRVDLKRSWHTFPLTEAIQALFE  
RGERRLNLDVQCDSQELAVVPVFVDPGEESHPRFVVVQARLGDSRHRIRKRGLECDGRT  
NLCCRQFFIDFRLIGWNDWIIAPTGYGYNYCEGSCPAYLAGVPGSASSFHTAVVNQYRM  
RGLNPGTVNSCCIPTKLSTMSMLYFDDEYNIVKRDVPMIVEECGA

>sp|Q8IU57|INLR1\_HUMAN Interferon lambda receptor 1 OS=Homo sapiens GN=IFNLR1 PE=1 SV=1

MAGPERWGPLLLCLLQAAPGRPRLAPPQNVTLTSQNFVSVLTWLPGLGNPQDVITYFVAYQ  
SSPTRRRWREVEECAGTKELLCSMMCLKKQDLYNKFKGRVRTVSPSSKSPWVESEYLDYL  
FEVEPAPPVLVLTQTEEILSANATYQLPPCMPPLDLKYEVAFWKEGAGNKTLFPVTPHGQ  
PVQITLQPAASEHHCLSARTIYTFVSPKYSKFSKPTCFLLEVPEANWAFVLPSLLILL  
VIAAGGVIWKTLMGNPWFQRAKMPRALDFSGHTHPVATFQPSRPESVNDLFLCPQKELTR  
GVRPTPRVRPATQQTRWKKDLAEDEEEDEEDTEDGVSFQPYIEPPSFLGQEHQAPGHS  
EAGGVDSGRPRAPLPVSEGSSAWDSSDRSWASTVDSSWDAGSSGYLAKEGPGQPGGDG  
HQESLPPPEFSKDSGFLEELPEDNLSSWATWGTLPPEPNLVPGGPPVSLQTLTFCWESSP  
EEEEARESEIEDSDAGSWGAESTQRTEDRGRTLGHYMAR

>sp|095050|INMT\_HUMAN Indolethylamine N-methyltransferase OS=Homo sapiens GN=INMT PE=1  
SV=3

MKGFTGGDEYQKHFLPRDYLATYYSFDGSPSPEAEMLKFNLECLHKTFGPGGLQGDTLI  
DIGSGPTIYQVLAACDSFQDITLSDFTDNRREELEKWLKKEPGAYDWTPAVKFACELEGN  
SGRWEEKEEKLRAAVKRVLKCDVHLGNPLAPAVLPLADCVLTLLAMECACCSLDAYRAAL  
CNLASLLKPGHGLVTVTLRLPSYVMVGKREFSCVALEKEEVEQAVLDAGFDIEQLLHSPQ  
SYSVTNAANNGVCFIVARKKPGP

>sp|015327|INP4B\_HUMAN Type II inositol 3,4-bisphosphate 4-phosphatase OS=Homo sapiens  
GN=INPP4B PE=2 SV=4

MEIKEEGASEEGQHFLPTAQANDPGDCQFTSIQKTPNEPQLEFILACKDLVAPVRDRKLN  
TLVQISVIHPVEQSLTRYSSSTEIVEGTRDPLFLTGVTFPSEYPIYEETKIKLTVYDVKDK  
SHDTRVTSVLPEHKDPPPEVGRSFLGYASFVKGELLKSKEQLLVLSLRTSDGGKVVGTE  
VSVVKMGEIEDGEADHITTDVQGQKCALVCECTAPESVSGKDNLPFLNSVLKNPVCKLYR  
FPTSDNKWMRIREQMSEISLFSHIPKELISLHIKEDLCRNQEIKELGELSPHWDNLKKNV  
LTHCDQMVMNYQDILTELSKETGSSSKSSSKGEKTLFVFPINLHLQRMQVHSPHLKDAL  
YDVITVGAPAAHFQFGKNGGLRKLHLRFETERNTGYQFIYSPENTAKAKEVLSNINQL  
QPLIATHADLLLNSASQHSPLSKNSLKMLSEKTELFVHAFKDQLVRSALLALYTARPGG  
ILKKPPSPKSSTEESPQDQPPVMRGQDSIPHHSYDEEEWDRVWANGKSLNCIIAMVD  
KLIERDGGSEGGNNDGEKEPSLTDAIPSHPREDWYEQLYPLILTLKDCMGEVVNRAKQ  
SLTFVLLQELAYSLPQCLMLTLRRDIVFSQALAGLVCGFI IKLQTSLYDPGFLQQLHTVG  
LIVQYEGLLSTYSDEIGMLEMAVGISDLKKVAFKII EAKSNDVLPVITGRREHYVVEVK

LPARMFESLPLQIKEGQLLHVYPVLFNNGINEQQTLAERFGDVSLQESINQENFELLQEY  
YKIFMEKMPPDYISHFQEQNDLKALLENLLQNIQSKKRKNVEIMWLAATICRKLNGIRFT  
CCKSAKDRTSMSTLEQCSILRDEHQLHKDFFIRALDCMRREGCRIENVLKNIKCRKYAF  
NMLQLMAFPKYRPPPEGTYGKADT

>sp|Q9NRR6|INP5E\_HUMAN 72 kDa inositol polyphosphate 5-phosphatase OS=Homo sapiens  
GN=INPP5E PE=1 SV=2

MPSKAENLRPSEPAPQPPEGRTLQGQLPGAPPAQRAGSPDPAPGSESPALACSTPATPSG  
EDPPARAAPAIAPRPPARPRLERALSLDDKGWRRRRFRGSQEDLEARNGTSPSRGSVQSEG  
PGAPAHSCSPCLSTSLQEIPKSRGVLSSERGSPPSSGGNPLSGVASSSPNLPHRDAAVAG  
SSPRLPSLLPRPPPALSLDIASDSLRTANKVDSLDLADYKLRAQPLLVRHSSSLGPRPR  
SPLACDDCSLRSKSSFSLLAPIRSKDVRSRSYLEGSLLASGALLGADELARYFPDRNVA  
LFVATWNMQGQKELPPSLDEFLLPAAEADYAQDLYVIGVQEGCDRREWETRLQETLGPY  
VLLSSAAHGVLYMSLFIIRDLIWFCEVEECSTVTTRIVSQIKTKGALGISFTFFGTSFLF  
ITSHFTSGDGKVAERLLDYTRTVQALVLPNPVDTNPYRSSAADVTTRFDEVFWFGDFNF  
RLSGGRTVVDALLCQGLVVDVPALLQHDQLIREMRKGSIFKGFQEPDIHFLPSYKFDIGK  
DTYDSTSKQRTPSYTDRLVYRSRHKGDICPVSYSSCPGIKTSDHRPVYGLFRVKVRPGRD  
NIPLAAGKFDRELYLLGIKRRISKEIQRQQALQSQNSSTICSVS

>sp|Q9BT40|INP5K\_HUMAN Inositol polyphosphate 5-phosphatase K OS=Homo sapiens GN=INPP5K  
PE=1 SV=3

MSSRKLSPGPKGRRSLIHVVTWNVASAAPPLDLSDLLQLNNRNLNLDIYVIGLQELNSGII  
SLLSDAAFNDSWSSFLMDVLSPLSFIKVSHVRMQGILLVFAKYQHLPYIQILSTKSTPT  
GLFGYWGNGKGVNICLKLYGYVYSIINCHLPPHISNNYQRLEHFDRILEMQNCEGRDIPN  
ILDHDLIIWFGDMNFRIEDFGLHFVRESIKNRCYGGLEWKDQLSIKKHDPLLREFQEGR  
LLFPPTYKFDRNSNDYDTSEKKRKPATDRILWRLKRQPCAGPDTPIPPASHFSLSLRGY  
SSHMTYGISDHKPVSGTFDELKPLVSAPLIVLMPEDLWTVENDMMVSYSSTSDFPSSPW  
DWIGLYKVGLRDVNDYVSYAWVGDSKVCSDNLNQVYIDISNIPTTEDEFLLCYYSNSLR  
SVVGISRPFQIPPGSLREDPLGEAQPQI

>sp|Q14602|ID2B\_HUMAN Putative DNA-binding protein inhibitor ID-2B OS=Homo sapiens  
GN=ID2B PE=5 SV=1

MKAFFSPVRSIRKNSLLDHRGLISQSKTPVDDLMSLL

>sp|P41134|ID1\_HUMAN DNA-binding protein inhibitor ID-1 OS=Homo sapiens GN=ID1 PE=1 SV=3

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVASRCAGGAGARLPALLDEQ  
QVNVLLYDMNGCYSRLKELVPTLPQNRKVSKEILQHVIDYIRDLQLELNSESEVGTPGG  
RGLPVRAPLSTLNGEISALTAEACVPADDRILCR

>sp|Q9BTL4|IER2\_HUMAN Immediate early response gene 2 protein OS=Homo sapiens GN=IER2  
PE=1 SV=1

MEVQKEAQRIMTSLVWKMYSRMQRGGLRLHRSLLQLSLVMRSARELYLSAKVEALEPEVS  
LPAALPSDPRLHPPREAETAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRAKVS  
KRRSSSLSDGGDAGLVPSKKARLEEEEEEGASSEVADRLQPPPAQAEGAFPNLARVLQR  
RFSGLLNCSPAAPTAPPACEAKPACRPADSMNLVLRVAVAF

>sp|Q9HBG6|IF122\_HUMAN Intraflagellar transport protein 122 homolog OS=Homo sapiens  
GN=IFT122 PE=1 SV=2

MRAVLTWDRKAEHCINDIAFKPDGTQLILAAGSRLLVYDTS DGTLLQPLKGHKDTVYCVA  
YAKDGKRFASGSADKSVIIWTSKLEGILKYTHNDAIQCVSYNPITHQLASCSSSDFGLWS

PEQKSVSKHKSSSKIICCSWTNDGQYLALGMFNGIISIRNKNGEEKVKIERPGGSLSPIW  
SICWNPSSRWESFWMNRENEDAEDVIVNRYIQEIPSTLKSAVYSSQGSEAAAAEEEEEDD  
SPRDDNLEERNLILAVADWGQKVSFYQLSGKQIGKDRALNFDPCCSYFTKGEYILLGGS  
DKQVSLFTKDGVRGLTVGEQNSVWWTQCAKPDSNYVVVGCQDGTISFYQLIFSTVHGLYK  
DRYAYRDSMTDVIVQHLITEQKVRIKCKELVKKIAIYRNRLAIQLPEKILYELYSEDLS  
DMHYRVKEKIIKKFECNLLVVCANHIILCQEKRLQCLSFSGVKEREWQMESLIRYIKVIG  
GPPGREGLLVGLKNGQILKIFVDNLFAIVLLKQATAVRCLDMSASRKKLAVVDENDTCLV  
YDIDTKELLFQEPNANSVAWNTQCEDMLCFSGGGYLNIAKSTFPVHRQKLQGFVVGNGS  
KIFCLHVFISISAVEVPQSAPMYQYLDRLKFKEAYQIACLGVTDTDWRELAMEALEGLDFE  
TAKKAFIRVQDLRYLELISSIEERKKRGETNNDLFLADVFSYQGFHEAAKLYKRSGHEN  
LALEMYTDLCMFEYAKDFLGSGDPKETKMLITKQADWARNIKEPKAAVEMYISAGEHVKA  
IEICGDHGWVMDLIDIARKLDAEREPLLLCATYLLKKLDSPGYAAETYLKMGDLKSLVQL  
HVETQRWDEAFALGEKHPEFKDDIYMPYAQWLAENDRFEEAQKAFHKAGRQREAVQVLEQ  
LTNNAVAESRFNDAAYYYWMLSMQCLDIAQDPAQKDTMLGKFYHFQRLAELYHGYHAIHR  
HTEDPFSVHRPETLFNISRFLHSLPKDTPSGISKVKILFTLAKQSKALGAYRLARHAYD  
KLRLGLYIPARFQKSIELGTLTIRAKPFHDSEELVPLCYRCSTNNPLNLGNVCINCRQP  
FIFSASSYDVLHLVEFYLEEGITDEEAISLIDLEVLRPKRDDRQLEIANNSSQILRLVET  
KDSIGDEDPTAKLSFEQGGSEFVPVVVSRLVLRMSRRLVLIKRWPPPLRWQYFRSLLP  
DASITMCPSCFQMFHSEYELLVLQHGCCPYCRRCKDDPGP

>sp|Q16666|IF16\_HUMAN Gamma-interferon-inducible protein 16 OS=Homo sapiens GN=IFI16 PE=1  
SV=3

MGKKYKNIVLLKGLEVIN DYHFRMVKSLLSNDLKLNLKMREEYDKIQIADLMEEKFRGDA  
GLGKLKIFEDIPTLEDLAETLKKEKLKVKGPALSRKRKKEVDATSPAPSTSSTVKTEGA  
EATPGAQKRKKSTKEKAGPKGSKVSEEQTPPSPAGAGMSTAMGRSPSPKTSLSAPPNSS  
STENPKTVAKCQVTPRRNVLQKRPVIVKVLSTTKPFYETPEMEKKIMFHATVATQTQFF  
HVKVLNTSLKEKFNGKKIIISDYLEYDSLLEVNEESTVSEAGPNQTFEVPNKIINRAKE  
TLKIDILHKQASGNIVYGVFMLHKKTVNQKTTIYEIQDDRGMDDVVGTCQCHNIPCEEGL  
KLQLFCFRLRKKNQMSKLI SEMHSFIQIKKKTNPRNNDPKSMKLPQEQRQLPYPSEASTT  
FPESHLRTPQMPPTTPSSSFFTKSEDTISKMNDFMRMQILKEGSHFPGPFMTSIGPAES  
HPHTPQMPSTPSSSFLTTKSEDTISKMNDFMRMQILKEGSHFPGPFMTSIGPAESHPT  
PQMPSTPSSSFLTLKPRLKTEPEEVSIEDSAQSDLKEVMVLNATESFVYEPKEQKKMF  
HATVATENEVFRVKFNIDLKEKFTPKKIIAIANYVCRNGFLEVYPFTLVADVNADRNM  
IPKGLIRSASVTPKINQLCSQTKGSFVNGVFEVHKKNVRGEFTYIEIQDNTGKMEVVHVG  
RLTTINCEEGLKLKLCFELAPKSGNTGELRSVIHSHIKVTRKNKKDILNPSSMETS  
PDFFF

>sp|P05198|IF2A\_HUMAN Eukaryotic translation initiation factor 2 subunit 1 OS=Homo sapiens  
GN=EIF2S1 PE=1 SV=3

MPGLSCRIFYQHKFPEVEDVVMNVNRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIIRSIN  
KLIRIGRNECVVIVRVDKEKGYIDLSKRRVSPEEAIKCEDKFTKSKTVYSILRHVAEVLE  
YTKDEQLESFLQRTAWVFDDKYKRPGYGAYDAFKHAVSDPSILDSLNLNEDEREVLINNI  
NRRLTPQAVKIRADIEVACYGYEGIDAVKEALRAGLNCSTENMPIKINLIAPPRYVMTT  
TLERTEGLSVLSQAMAVIKEKIEEKRGVFNVMQEPKVVTDTDETALARQMERLERENAEV  
DGDDDAEEMEAKAED



>sp|P20042|IF2B\_HUMAN Eukaryotic translation initiation factor 2 subunit 2 OS=Homo sapiens  
GN=EIF2S2 PE=1 SV=2

MSGDEMIFDPTMSKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEED  
TRKKDASDDLDDLNFNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIM  
LGNKKKKKKNVKFPDEDEILEKDEALEDEDNKKDDGISFSNQTPAWAGSERDYTYEELL  
NRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTGKTSFVNFTDICKLLHRQPKHLLAFL  
LAELGTSGSIDGNNQLVIKGRFQQKQIENVLRRYIKEYVTCHTCRSPDTILQKDTRL YFL  
QCETCHSRCSVASIKTGFQAVTGKRAQLRAKAN

>sp|P23588|IF4B\_HUMAN Eukaryotic translation initiation factor 4B OS=Homo sapiens  
GN=EIF4B PE=1 SV=2

MAASAKKNKKGKTI SLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDD  
DVYRAPPIDRS ILPTAPRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLN  
ISAVRLPREPSNPERLKGFGYAEFEDLSLSALSNEESLGNRRIRVDVADQAQDKDRD  
DRSFGDRNRDSDKTDTDWRARPATDSFDDYPPRRGDSFGDKYRDRYDSDRYRGGYRDG  
YRDGPRRDMDRYGGDRYDDRGSRDYDRGYDSRIGSGRRAFSGSYRRDDDYRGGGDRYED  
RYDRRDRSWSSRDDYSRDDYRRDDRGPQRPKLNLKPRSTPKEDDSSASTSQSTRAASI  
FGGAKPVDTAAREREVEERLQKEQEKLRQLDEPKLERRPRERHPSWRSEETQERERSRT  
GSESSQTGTSTTSSRNARRRESEKSLNETLNKEEDCHSPTSKPPKPDQPLKVMPPPPK  
ENAWVKRSSNPPARSQSSDTEQQSPTSGGGKVAPAPSEEGPGRKDENVKGMNAPKGGT  
GNSSRGP GDGGRDHWKESDRKDGGKQDSRSAPEPKPEENPASKFSSASKYAALSVDG  
EDENEGEDYAE

>sp|Q8N5X7|IF4E3\_HUMAN Eukaryotic translation initiation factor 4E type 3 OS=Homo sapiens  
GN=EIF4E3 PE=2 SV=4

MALPPAAAPPAGAREPPGSRAAAAAAAPEPPLGLQQLSALQPEPGGVPLHSSWTFWLDRS  
LPGATAAECASNLKKIYTVQTVQIFWSVYNNIPPVTSPLRCSYHLMRGERRPLWEEESN  
AKGGVWKMKVPKDSTSTVWKELLATIGEQTDCAAADDEVIGSVSVSRDREDVVQVNVN  
NASLVGEATVLEKIYELLPHITFAVFYKPHHEHHAFEGGRGKH

>sp|Q8IU54|IFNL1\_HUMAN Interferon lambda-1 OS=Homo sapiens GN=IFNL1 PE=1 SV=1

MAAAWTVVLVTLVLGLAVAGPVPTSKPTTTGKGCHIGRFKSLSPQELASFKKARDALEES  
LKLKNWSCSSPVFPGNWDRLRLQVRERPVALEAELALTLKVLAAAAGPALEDVLDQPLHT  
LHHILSQLQACIQPQPTAGPRPRGRLHHLHRLQEAPKKESAGCLEASVTFNLFRLTRD  
LKYVADGNLCLRTSTHPEST

>sp|P01344|IGF2\_HUMAN Insulin-like growth factor II OS=Homo sapiens GN=IGF2 PE=1 SV=1

MGIPMGKSMVLTLTFLAFASCCIAAYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVS  
RRSRGIVEECCFRSCDLALLETYCATPAKSERDVSTPPTVLPDNFPRYPVGKFFQYDTWK  
QSTQRLRRGLPALLRARRGHVLAKELEAFREAKRHRPLIALPTQDPAHGGAPPEMASNRK

>sp|P01857|IGHG1\_HUMAN Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

ASTKGPSVFPLAPSSKSTSGGTAAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS  
GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG  
PSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYN  
STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDE  
LTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW  
QQGNVVFSCSVMEALHNHYTQKSLSLSPGK

>sp|P01860|IGHG3\_HUMAN Ig gamma-3 chain C region OS=Homo sapiens GN=IGHG3 PE=1 SV=2

ASTKGPSVFPLAPCSRSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS  
GLYSLSSVVTVPSSSLGTQYTCNVNHKPSNTKVDKRVELKTPLGDTTHTCPRCPEPKSC  
DTPPPCPRCPEPKSCDTPPPCPRCPEPKSCDTPPPCPRCPAPELLGGPSVFLFPPKPKDT  
LMISRTPEVTCVVVDVSHEDPEVQFKWYVDGVEVHNAKTKPREEQYNSTFRVSVLTVLH  
QDWLNGKEYKCKVSNKALPAPIEKTISKTKGQPREPQVYTLPPSREEMTKNQVSLTCLVK  
GFYPSDIAVEWESSGPENNYNTTPPMLDSGSSFFLYSKLTVDKSRWQQGNIFSCSVMHE  
ALHNRTQKSLSLSPGK

>sp|P01861|IGHG4\_HUMAN Ig gamma-4 chain C region OS=Homo sapiens GN=IGHG4 PE=1 SV=1

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS  
GLYSLSSVVTVPSSSLGTQYTCNVNHHKPSNTKVDKRVESKYGPPCPCPAPEFLGGPSV  
FLFPPKPKDTLMISRTPEVTCVVVDVSDPEVQFNWYVDGVEVHNAKTKPREEQFNSTY  
RVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTIKAKGQPREPQVYTLPPSQEEMTK  
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGSSFFLYSRLTVDKSRWQEG  
NVFSCSVMHEALHNHYTQKSLSLGLK

>sp|P01834|IGKC\_HUMAN Ig kappa chain C region OS=Homo sapiens GN=IGKC PE=1 SV=1

TVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPRKAVQWKVDNALQSGNSQESVTEQDS  
KDSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

>sp|P15814|IGLL1\_HUMAN Immunoglobulin lambda-like polypeptide 1 OS=Homo sapiens GN=IGLL1  
PE=1 SV=1

MRPGTGQGGLEAPGEPGNLRQRWPLLLGLAVVTHGLLRPTAASQSRA LGPGAPGGSSR  
SSLRSRWGRFLLQRGSWTGPRCWRGFGSKHNSVTHVFGSGTQLTVLSQPKATPSVTLFP  
PSSEELQANKATLVCLMNDFYPGILTVTWKADGTPITQGVEMTTPSKQSNKYAASSYLS  
LTPEQWRSRRSYSCQVMHEGSTVEKTVAPAECS

>sp|Q6WRI0|IGS10\_HUMAN Immunoglobulin superfamily member 10 OS=Homo sapiens GN=IGSF10  
PE=2 SV=1

MKVKGRTICLLVSFAVICLVATPGGKACPRRCACYPTEVHCTFRYLTSIPDSIPPVNE  
RINLGYNLSVRLMETDFSGLTKELEMLHSNGIHTIPDKTFSDLQALQVLKMSYNKVRKL  
QKDTFYGLRSLTRLHMDHNIEFINPEVFYGLNFLRLVHLEGNQLTKLHPDFTVLSYLQ  
IFKISIFIKFLYLSDNFLTSLPQEMVSYMPDLDSLHLGNPWTCDCHLKWLSDWIQEKPDV  
IKCKKDRSPSSAQQCPLCMNPRTSKGKPLAMVSAAAFQCAKPTIDSSLKSKSLTILEDSS  
SAFISPGQFMAPFGSLTLNMTDQSGNEANMVCSIQKPSRTSPIAFTEENDYIVLNTSFST  
FLVCNIDYGHIIQPVWQILALYSDSPLILERSHLLSETPQLYYKYQVAPKPEDIFTNIEA  
DLRADPSWLMQDQISLQLNRTATFTSTLQIQYSSDAQITLPRAEMRPVKHKWTMISRDNN  
TKLEHTVLVGGTVGLNCPGGDPTPHVDWLLADGSKVRAPYVSEDGRILIDKSGKLELQM  
ADSFDTGVYHCISSNYDDADILTYRITVVEPLVEAYQENGIIHTVFIGETLDLPCHSTGI  
PDASISWVIPGNVLYQSSRDKKVLNNGTLRILQVTPKDQGYRCVAANPSGVDFLIFQV  
SVKMKGQRPLEHGETEGSGLDESNI AHLKEPPGAQLRTSALMEAEVGKHTSSTSKRHN  
YRELTLQRRGDSTHRRFRENRRHFPPSARRIDPQHWAALLEKAKKNAMPDKRENTTVSPP  
PVVTQLPNIPGEEDSSGMLALHEEFMVPATKALNLPARTVTADSRTISDSPMTNINYGT  
EFSPVNSQILPPEEPTDFKLSTAIKTTAMSKNINPTMSSQIQGTNQHSSTVFPLLLGA  
TEFQSDQMGRGREHFQSRPPI TVRTMIKDVNVKMLSSTTNKLLLESVNTTNSHQTSVRE  
VSEPRHNHFYSHTTQILSTSTFPSPDHTAAHSQFPIPRNSTVNIPLFRFRGRQRKIGGRG  
RIISPYRTPVLRHRYSIFRSTTRGSSEKSTTAFSATVLNVTCLSLPRERLTATAALS  
FPSAAPITFPKADIARVPSEESTTLVQNPLLLLENKPSVEKTTPTIKYFRTEISQVTPTG

AVMTYAPTSIPMEKTHKVNASYPRVSSTNEAKRDSVITSSLGAIKPPMTIIAITRFSR  
RKIPWQQNFVNNHNPKGRLRNQHKVSLQKSTAVMLPKTSPALPRDKVSPFHFTTLSTSVM  
QIPSNLTTLTAHHTTTKTHNPGSLPTKKELPFPPLPNMLPSIISKDSSTKSIISTQTAIPA  
TTPTFPASVITYETQTERSRAQTIQREQEPQKKNRDPNISPQSSGFTTPTAMTPPVLT  
TAETSVKPSVSAFTHSPPENTTGISSTISFHSRTLNLTDVIEELAASTQTLKSTIASSET  
TLSSKSHQSTTRKAIIRHSTIPPFLSSSATLMPVPISPPFQRAVTDNVATPISGLMTN  
TVVKLHESSRHNAKQQQLVAEVATSPKVHPNAKFTIGTTHFIYSNLLHSTPMPALTTVKS  
QNSKLTSPWAENQFVHKPYSEIAEKGGKPEVSMLATTGLSEATTLVSDWDGQKNTKKSD  
FDKKPVQEATTSKLLPFDSLSRYIFEKPRIVGGKAASFTIPANSDAFLPCEAVGNPLPTI  
HWTRVPSGLDLSKRRQNSRVQVLPNGTSLIQRVEIQDRGQYLCASNLFGTDHLHVTLSV  
VSYPPRILERRTKEITVHSGSTVELKCAEGRPSPTVTWILANQTVVSESSQGSRAVVT  
VDGTLVLHNLISIYDRGFYKCVASNPGGQDSLLVKIQVIAAPPVILEQRRQVIVGTWGESL  
KLPCAKGTPQPSVYVWLSDGTEVKPLQFTNSKLFNLTLYIRNLASSDRGTIECIAT  
SSTGSERRVVMLTMEERTVSPRIEASQKRTEVNFGDKLLNCSATGEPKQIMWRLPSK  
AVVDQQHRVGSWIHVYPNGSLFIGSVTEKDSGVYLCVARNKMGGDLILMHVSLRLKPAKI  
DHKQYFRKQVLHGKDFQVDCASGSPVPEISWSLPDGTMINNAMQADDSGHRTRRYTLFN  
NGTLYFNKVGVAEEGDYTCYAQNTLGKDEMKVHLTVITAAPRIRQSNKTNKRIKAGDTAV  
LDCEVTGDPKPKIFWLLPSNDMISFSIDRYTFHANGSLTINKVKLLDSGEYVCVARNPSG  
DDTKMYKLDVVS KPPLINGLYTNRTVIKATAVRHSHKHFDCRAEGTPSPEVMWIMPDNIF  
LTAPYYGSRITVHKNGTLEIRNVRLSDSADFCVARNEGGEVSVLVQLEVLEMLRRPTFR  
NPFNEKIVAQLGKSTALNCSVDGNPPPEIIWILPNGTRFSNGPQSYQYLIASNGSFIISK  
TTREDAGKYRCAARNKVGYIEKLVILEIGQKPVILTYAPGTVKGISGESLSLHCVSDGIP  
KPNIKWTMPSGYVDRPQINGKYILHDNGTLVIKEATAYDRGNYICKAQNSVGHTLITVP  
VMIVAYPPRITNRPPRSIVTRTGAAFQLHCVALGVPKPEITWEMPDHSLSTASKERTHG  
SEQLHLQGTLVIQNPQTSDSGIYKCTAKNPLGSDYAATYIQVI

>sp|Q8N9C0|IGSF22\_HUMAN Immunoglobulin superfamily member 22 OS=Homo sapiens GN=IGSF22  
PE=2 SV=2

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PAGDSVPEFVEKQPPTAPEGDKAVFRARVQGNAPKPHISWKRESGIPIKESAKIFYDSIN  
KEHVLKLEPLTSDSDNYKCIASNDHADAIYTVSLLVTEGQEKMDFKKMLKKRAPPAPKK  
KQKKVANEKEMLEILSKVPKDFEKCMEYGFTDFRGLLRKLKEMKKKVEVEAIRILKPL  
EDKETKVDTTVVFDCELMELKDPNVKMIWIKGTEPLRIQYSLGKYDVQMGTKYMLVISNV  
NMNDAGIYSLVGDKRMSAELTVLDEPLKFLGEMKPVKVTERTAVFEIRLSKKEPNFVW  
KFNGKELKRDDKYEITVSEDGLHTLKIKDARLSDSGEFSAEAGNLVQKAQLTVDRIPK  
FVSNLKNVRVKERSRACLECELTSDVTLRWKKGQLLMHGTYSMNHEGKRAELIIEDA  
QLSDGGEYTVVAMQDGPTEYYSTAIVTVEERLATVKSMSDVHAATGSPAELCVVLNDE  
KVEGVWLKDGKEITDLPGMQIVKGAVHKLIFPSMGPEHEGKYTFRAKGTSEASVFIAD  
PPTIDPSVLEALAAHAITVKVGHTAHIKVPFRGKPLPKVTWYKDGMEVTEEERSMERGE  
DQALLTISNCVREDGLILLKLKNDHGSATATLHLSVLEPPGFASQPQVTDVTKEAVTIT  
WNAPTQDGGAPVLGYIVERRKKGSNLWVPVNDPIQGTCTVDGLEDTEYEFVIAVVK  
AGPGQPSVPSSSVAKDPVKPPGLVQDLHVS DSSNSSISLAWREPAEGDPPSGYILEMRA  
EDTKEWSKCTKIPISGTCYTVGGLIERQKYFFRIRAVNEAGVGEPVELDKGVRAMPPPG  
TTT

>sp|Q9UBC1|IKBL1\_HUMAN NF-kappa-B inhibitor-like protein 1 OS=Homo sapiens GN=NFKBIL1 PE=1 SV=1

MSNPSPQVPEEEASTSVCPRKSSMASTRRQRERRRFRRLYSAGRLVRAQALLQRHPGLD  
VDAGQPPPLHRACARHDAPALCLLLRLGADPAHQDRHGDTALHAAARQGPDAYTDFFLPL  
LSRCP SAMGIKNKGETPGQILGWPPWDSAEEDDASKEREWQKLQGELEDEWQEV  
MGRFEGDASHETQEPESFSAWSDRLAREHAQKCQQQREAEGSCRPPRAEGSSQSWRQQE  
EEQRLFREERARAKEEELRESRARRAQEALGDREPKPTRAGPREEHPRGAGRGS LWRFGDV  
PWPCPGGGDPEAMAAALVARGPPLEEQGALRRYL RVQQVRWHPDRFLQRFRSQIETWELG  
RVMGAVTALSQALNRHAEALK

>sp|Q14164|IKKE\_HUMAN Inhibitor of nuclear factor kappa-B kinase subunit epsilon OS=Homo sapiens GN=IKBKE PE=1 SV=1

MQSTANYLWHTDDLGGGATASVYKARNKSGELVAVKVFNTTSYL RPREVQVREFEVL R  
KLNHQNIVKLF AVEETGGS RQKVLVMEYC SSGSLLSVLESPENAFGLPEDEFLVVLRCV V  
AGMNLHRENGIVHRDIKPGNIMRLVGEEGQSIYKLTDFGAARELDDDEK FVS VYGTEEYL  
HPDMYERAVLRKPQQKAFGVTVDLWSIGVTLYHAATGSLPFI PFGGPRRNKEIMYRITTE  
KPAGAIAGAQRRENGPLEWSYTL PITCQLSLGLQSQLVPILANILEVEQAKCWGFDQFFA  
ETSDILQRVVVHVFSLSQAVLHHIYIHAHNTIAIFQEAVHKQTSVAPRHQEYLFEGHLCV  
LEPSVSAQHIAHTTASSPLTLFSTAIPKGLAFRDPALDVPKFVPKVDLQADYNTAKGVLG  
AGYQALRLARALLDGQELMFRGLHWVMEVLQATCRRTLEVARTSLLYSSSLGTERFSSV  
AGTPEIQELKAAAELRSRLRTLAEVLSRCSQNITETQESLSSLNREL VKSRDQVHEDRSI  
QQIQCCLDKMNFIYKQFKKSRMRPGLGYNEEQIHKLDKVNF SHLAKRLLQVFQEECVQKY  
QASLVTHGKRM RVHETRNLRLVGC SVAACNTEAQGVQESLSKLEELSHQLLQDRAKG  
AQASPPPIAPYPSPTRKDLLLHMQELCEGMKLLASDLLDNRIIERLNRVPAPPDV

>sp|P20809|IL11\_HUMAN Interleukin-11 OS=Homo sapiens GN=IL11 PE=1 SV=1

MNCVCRLVLVLSLWPD TAVAPGPPPGPRVSPDPRAELDSTVLLTRSL LADTRQLAAQL  
RDKFPADGDHNLDSLPTLAMSAGALGALQLPGV LTRLRADLLSYLRHVQWLR RAGGSSLK  
TLEPELGTLQARLDRLRLRLQLLMSRLALPQPPDP PAPPPLAPPSSAWGGIRAAHAILGG  
LHLTLDWAVRG LLLLKTRL

>sp|P29460|IL12B\_HUMAN Interleukin-12 subunit beta OS=Homo sapiens GN=IL12B PE=1 SV=1

MCHQQLVISWFSLVFLASPLVAIWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITW  
TLDQSSEVLGSGKTLTIQVKEFGDAGQYTCHKGGEVLSHSLLLLHKKEDGIWSTDILKDQ  
KEPKNTFLRCEAKNYSGRFTCWWT TISTDLTFSVKSSRGSSDPQGVTCGAATLSAERV  
RGDNKEYEYSVEQCEDSACPAAEESLP I EVMVDAVHKLKYENYTSSFFIRDI IKPDPPKN  
LQKPLKNSRQVEVSWEYPTWSTPHSYFSLTFCVQVQGKSKREKKDRVFTDKTSATVIC  
RKNASISVRAQDRYSSSWSEWASVPCS

>sp|Q8TAD2|IL17D\_HUMAN Interleukin-17D OS=Homo sapiens GN=IL17D PE=2 SV=1

MLVAGFLLALPPSWAAGAPRAGRPARPRGCADRPEELLEQLYGR LAAGVLSAFHHTLQL  
GPREQARNASCPAGGRPADRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCL  
TGLFG EEDVRFRSAPVYMTTVLRRTPACAGGRSVYTEAYVTIPVGCTCVPEPEKDADSI  
NSSIDKQGA LLLGPNDAPAGP

>sp|Q9UHD0|IL19\_HUMAN Interleukin-19 OS=Homo sapiens GN=IL19 PE=1 SV=2

MKLQCVSLWLLGTILILCSVDNHGLRRCLISTDMHHIEESFQEIKRAIQAKDTFPNVTIL  
STLET LQIIKPLDVCCVTKNLLAFYVDRVFKDHQEPNPKILRKISSIANSFLYMQKTLRQ  
CQEQRQCHCRQEATNATRV IHDNYDQLEVHAAA I KSLGELDVFLAWINKNHEVMFSA

>sp|Q9NPH3|IL1AP\_HUMAN Interleukin-1 receptor accessory protein OS=Homo sapiens GN=IL1RAP  
PE=1 SV=2

MTLLWCVVSLFYGILQSDASERCDDWGLDTRQIQVFEDEPARIKCPLFEHFLKFNYST  
AHSAGLTLIWYWRQDRDLEEPINFRLPENRISKEKDLWFRPTLLNDTGNYTCMLRNTT  
YCSKVAFPLEVQKQDSCFNPMKLPVHKLYIEYGIQRITCPNVDGYFPSSVKPTITWYMG  
CYKIQNFNNVIPEGMNLISNNGNYTCVVYPENGRTFHLTRTLTVKVGSPKNA  
VPPVIHSPNDHVVEKEPGEELLIPCTVYFSFLMSRNEVWWTIDGKKPDDITIDVTINE  
SISHSRTEDETRTQILSIKKVTSDELKRSYVCHARSAKGEVAKAAKVQKVPAPRYTVEL  
ACGFGATVLLVLIVVYHVYWMVLFYRAHFGTDETLIDGKEYDIYVSYARNAEEEEF  
VLLTLRGVLENEFGYKLCIFDRDSLPGGIVTDETLFSFIQKSRRLVVLSPNYVLQGTQAL  
LELKAGLENMASRGNINVILVQYKAVKETKVKELKRAKTVLTVIKWKGEKSKYPQGRFWK  
QLQVAMPVKKSPRRSSSDEQGLSYSSLKNV

>sp|Q8WWZ1|IL1FA\_HUMAN Interleukin-1 family member 10 OS=Homo sapiens GN=IL1F10 PE=1 SV=1

MCSLPMARYYIIKYADQKALYTRDGQLLVGDPVADNCCAEEKICILPNRGLARTKVPILFG  
IQGGSRLACVETEEGPSLQLEDVNIEELYKGGEATRTFFQSSSGSAFRLEAAAWPGW  
FLCGPAEPQQPVQLTKESEPSARTKFYFEQSW

>sp|P18510|IL1RA\_HUMAN Interleukin-1 receptor antagonist protein OS=Homo sapiens GN=IL1RN  
PE=1 SV=1

MEICRGLRSHLITLLLFLFHSETICRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYL  
QGPVNVLEEKIDVPIEPHALFLGIHGGKMCLSCVKSGDETRLQLEAVNITDLENRKQD  
KRFAFIRSDSGPTTSFESAACPGWFLCTAMEADQPVSLTNMPDEGVMVTKFYFQEDE

>sp|Q9HBE4|IL21\_HUMAN Interleukin-21 OS=Homo sapiens GN=IL21 PE=1 SV=2

MERIVICLMVIFGLTVLHKSSSQGQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDV  
ETNCEWSAFSCFQKAQLKSANTGNNERIINVSIKKLKRKPPSTNAGRRQKHRLTCPSCDS  
YEKKPPKEFLERFKSLLQKMIHQHLSRTHGSEDS

>sp|Q5VWK5|IL23R\_HUMAN Interleukin-23 receptor OS=Homo sapiens GN=IL23R PE=1 SV=3

MNQVTIQWDAVIALYILFSWCHGGITNINCSGHIWVEPATIFKMGMNISIYCQAAIKNCQ  
PRKLHFYKNGIKERFQITRINKTTARLWYKNFLEPHASMYCTAECPKHFQETLICGKDIS  
SGYPPDIPDEVTCVIEYSGNMTCTWNAGKLTIDTKYVVHVKSLETEEEQQYLTSSYIN  
ISTDSLQGGKKYLWVQAANALGMEESKQLQIHLDDIVPSAAVISRAETINATVPKTI  
YWDSQTTEIKVSCEMRYKATTNQTWNVKEFDNTFTYVQQSEFYLEPNIKYVFQVRCQETG  
KRYWQPWSSLFFHKTPETVPQVTSKAFQHDTWNSGLTVASISTGHLTSDNRGDIIGLLGM  
IVFAVMLSILSLIGIFNRSFRTGIKRRILLIPKWLYEDIPNMKNSNVKMLQENSELMN  
NNSSEQVLYVDPMITEIKEIFIPEHKPTDYKKENTGPLETRDYPQNSLFDNTTVVYIPDL  
NTGYKPQISNFLPEGSHLSNNNEITSLTLKPPVDSLDSGNNPRLQKHPNFAFSVSSVNSL  
SNTIFLGELSLILNQGECSPIQNSVEEETMLENDSPESETIPEQTLLPDEFVSLGI  
VNEELPSINTYFPQNILESHFNRLSLEK

>sp|Q8NI17|IL31R\_HUMAN Interleukin-31 receptor subunit alpha OS=Homo sapiens GN=IL31RA  
PE=1 SV=1

MMWTWALWMLPSLCKFSLAALPAKPENISCVYYRKNLTCTWSPGKETSQYTVKRTYA  
FGEKHDNCTNSSTSENRASCSFFLPRITIPDNYTIEVEAENGDVIKSHMTYWRLENIA  
KTEPPKIFRVKPVLGIKRMIQIEWIKPELAPVSSDLKYTLRFRTVNSTSWMEVNFANRK  
DKNQTYNLTGLQPFTEYVIALRCAVKESKFWSDWSQEKMGMTTEEAPCGLELWRVLKPAE  
ADGRRPVRLWLKKARGAPVLEKTLGYNIWYYPESNTNLTETMNTTNQQLHLGGESFWV

SMISYNSLGKSPVATLRIPAIQEKSFCIEVMQACVAEDQLVVKWQSSALDVNTWMIEWF  
PDVDSEPTTSLWESVSQATNWTIQQDKLPFWCYNISVYPMLHDKVGEPIYSIQAYAKEGV  
PSEGPETKVENIGVKTVTITWKEIPKSERKGIICNYTIFYQAEGGKGFSTVNSSILQYG  
LESKRKTSYIVQVMASTSAGGTNGTSINFKTLFSVFEIILITSLIGGGLLILILTVA  
YGLKKPNKLTHLCWPTVPNPAESSIATWHGDDFKDKLNLKESDDSVNTEDRILKPCSTPS  
DKLVIDKLVVNFVGNVLQEIFTDEARTGQENNLGGEKNGYVTCFPRPDCPLGKSFEELPVS  
PEIPPRKSQYLRSRMEGTRPEAKEQLLFSGQSLVPDHLCEEAPNPYLKNSVTAREFLV  
SEKLEHTKGEV

>sp|Q9UHA7|IL36A\_HUMAN Interleukin-36 alpha OS=Homo sapiens GN=IL36A PE=1 SV=1  
MEKALKIDTPQQGSIQDINHRVWLQDQTLIAVPRKDRMSPVTIALISCRHVETLEKDRG  
NPIYLGNLNLCLMCAKVGDQPTLQLKEKDIMDLYNQPEPVKSFLFYHSQSGRNSTFES  
VAFPGWFIASSEGGLILTQELGKANTTDFGLTMLF

>sp|Q9NZH8|IL36G\_HUMAN Interleukin-36 gamma OS=Homo sapiens GN=IL36G PE=1 SV=1  
MRGTPGDADGGGRAVYQSMCKPITGTINDLNQQVWTLQGGNLVAVPRSDSVTPVTAVIT  
CKYPEALEQGRGDIYLGIQNPMECLYCEKVGEQPTLQLKEQKIMDLYGQPEPVKPFIFY  
RAKTGRTSTLESVAFPDWFIASSKRDQPIILTSELGKSYNTAFELNIND

>sp|P05231|IL6\_HUMAN Interleukin-6 OS=Homo sapiens GN=IL6 PE=1 SV=1  
MNSFSTSAFGPVAFSLGLLLVLPAAFPAPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYI  
LDGISALRKETCNKSNMCESSKEALAENNLNPKMAEKDGCQSGFNEETCLVKIITGLL  
EFEVYLEYLQNRFESSEEQARAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTKLQ  
AQNQWLQDMTTHLILRSFKEFLQSSLRALRQM

>sp|P13232|IL7\_HUMAN Interleukin-7 OS=Homo sapiens GN=IL7 PE=1 SV=1  
MFHVSFRYIFGLPPLILVLLPVASSDCDIEGKDQKQYESVLMVSIQQLDSMKEIGSNCL  
NNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQ  
VKGRKPAALGEAQPTKSLEENKSLKEQKKLNDLCFLKRLQEIKTWNKILMGTKEH

>sp|P15248|IL9\_HUMAN Interleukin-9 OS=Homo sapiens GN=IL9 PE=2 SV=1  
MLLAMVLTSALLCSVAGQGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCGLIP  
SDNCTRPCFSERLSQMTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCQPCNQTTAGN  
ALTFLKSLLEIFQKEKMRGMRGKI

>sp|Q13418|ILK\_HUMAN Integrin-linked protein kinase OS=Homo sapiens GN=ILK PE=1 SV=2  
MDDIFTQCREGNAVAVRLWLDNTENDLNQGDHGFSPHLWACREGRSAVVEMIMRGARI  
NVMNRGDDTPLHLAASHGHRDIVQKLLQYKADINAVNEHGNVPLHYACFWGQDQVAEDLV  
ANGALVSI CNKYGEMPVDKAKAPLRELLRERAEMGQNLNRIPYKDTFWKGTTTRTRPRNG  
TLNKHSGIDFKQLNFLTKLNENHSGELWKGWRWQGNDIVVKVLKVRDWSTRKSRDFNEECP  
RLRIFSHPNVLPVLGACQSPAPHPTLITHWMPYGLYNVLHEGTNFVVDQSQAVKFALD  
MARGMAFLHTLEPLIPRHALNSRSVMIDEDMTARISMADVKSFSQCPGRMYAPAWVAPEA  
LQKKPEDTNRRSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIPPGISPH  
VCKLMKICMNEDPAKRPFDMIVPILEKMQDK

>sp|Q9HB29|ILRL2\_HUMAN Interleukin-1 receptor-like 2 OS=Homo sapiens GN=IL1RL2 PE=1 SV=2  
MWSLLLCGLSIALPLSVTADGCKDIFMKNEILSASQPFAFNCTFPPITSGEVSVTWYKNS  
SKIPVSKIIQSRIHQDETWILFLPMEWGDSGVYQCVIKGRDSCHRIHVNLTVFEKHWCDDT  
SIGGLPNLSDEYKQILHLGKDDSLTCHLHFPKSCVLGPIKWKDCNEIKGERFTVLETRL  
LVSNVSAEDRGNYACQAILTHSGKQYEVNLGITVSITERAGYGGSVPKIIYPKNHSIEVQ  
LGTTLIVDCNVTDTKDNTNLCWRVNNTLVDDYYDESKRIREGVETHVSFREHNLYTVNI

TFLEVKMEDYGLPFMCHAGVSTAYIILQLPAPDFRAYLIGGLIALVAVAVSVVYIYNIFK  
IDIVLWYRSAFHSTETIVDGKLYDAYVLYPKPHKESQRHAVDALVLNILEVLERQCGYK  
LFIFGRDEFPGQAVANVIDENVKLCRRLLIVVVPESLGFGLLKNLSEEQIAVYSALIQDG  
MKVILIELEKIEDYTMPESIQYIKQKHGAIRWHGDFTEQSQCMKTKFWKTVRYHMPPRR  
CRPFPPVQLLQHTPCYRTAGPELGSRRKKCTLTTG

>sp|O15131|IMA6\_HUMAN Importin subunit alpha-6 OS=Homo sapiens GN=KPNA5 PE=1 SV=2  
MASPGKDNYRMKSYKNALNPQEMRRRREEEGIQLRKQKREEQLFKRRNVYLPRNDESM  
ESPIQDPDISSTVPIPEEEVTTDMVQMIFSNADQQLTATQKFRKLLSKEPNPPIDQVI  
QKPGVVQRVFKFLERNENCTLQFEAAWALTNIASGTFLHTKVVIETGAVPIFIKLLNSEH  
EDVQEQAVALGNIAGDNAECRDFVLNCEILPPLLELLTNSNRLTTTRNAVWALSNLCRG  
KNPPNFSSKVSCLNVLSRLLFSSDPDLADVCWALSYLSDGPNDKIQAVIDSGVCRRLV  
ELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSALPCLLHLLSSPKESIRKEACWTV  
SNITAGNRAQIQAVIDANIFPVLIEILQKAEFRTRKEAAWAITNATSGGTPEQIRYLVAL  
GCIKPLCDLLTMDSKIVQVALNGLNLRLEGEQESKQNGIGINPYCALIEEAYGLDKIE  
FLQSHENQEIYQKAFDLIEHYFGVEEDDPSIVPQVDENQQQFIFQQQEAPMDGFQL

>sp|O60684|IMA7\_HUMAN Importin subunit alpha-7 OS=Homo sapiens GN=KPNA6 PE=1 SV=1  
METMASPGKDNYRMKSYKNALNPQEMRRRREEEGIQLRKQKREEQLFKRRNVELINEEA  
AMFDSLLMDSYVSSTTGESVITREMVEMLFSDSDLQLATTQKFRKLLSKEPSPPIDEVI  
NTPRVVDRFVEFLKRNENCTLQFEAAWALTNIASGTSQQTKIVIEAGAVPIFIELLSDF  
EDVQEQAVALGNIAGDSSVCRDYLNCSILNPLLTLTKSTRLTMTTRNAVWALSNLCRG  
KNPPPEFAKVSPCLPVLRSLLFSSDSLADACWALSYLSDGPNKIQAVIDSGVCRRLV  
ELLMHNDYKVASPALRAVGNIVTGDDIQTQVILNCSALPCLLHLLSSPKESIRKEACWTI  
SNITAGNRAQIQAVIDANIFPVLIEILQKAEFRTRKEAAWAITNATSGGTPEQIRYLVSL  
GCIKPLCDLLTMDSKIVQVALNGLNLRLEGEQEGKRSQSGVNPYGLIEEAYGLDKIE  
FLQSHENQEIYQKAFDLIEHYFGVEDDDSSLAPQVDETQQQFIFQQQEAPMEGFQL

>sp|Q96T52|IMP2L\_HUMAN Mitochondrial inner membrane protease subunit 2 OS=Homo sapiens  
GN=IMMP2L PE=2 SV=1

MAQSQGWVKRYIKAFCKGFFVAVPVAVTFLDRVACVARVEGASMQPSLNPGGSQSSDVVL  
LNHWKVRNFEVHRGDIVSLVSPKNPEQKIIKRVIALEGDIVRTIGHKNRYVKVPRGHIWV  
EGDHHGHSFDSNSFGPVSLGLLHAHATHILWPPERWQKLESVLPPELPPVQREEE

>sp|Q96G21|IMP4\_HUMAN U3 small nucleolar ribonucleoprotein protein IMP4 OS=Homo sapiens  
GN=IMP4 PE=1 SV=1

MLRREARLRREYLARKAREEAQSAQERKERLRRALEENRLIPTELRREALALQGSLEFD  
DAGGEGVTSHVDDEYRWAGVEDPKVMITTSRDPSSRLKMFALCLVFPAGQRMNRGRHE  
VGALVRACKANGVTDLLVVEHRGTPVGLIVSHLPFGPTAYFTLCNVVMRHDIPDLGTMS  
EAKPHLITHGFSSRLGKRVSDILRYLFPVPKDDSHRVITFANQDDYISFRHHVYKKTDRH  
NVELTEVGPRFELKLYMIRLGTLEQEATADVEWRWHPYTNNTARKRVFLSTE

>sp|P15260|INGR1\_HUMAN Interferon gamma receptor 1 OS=Homo sapiens GN=IFNGR1 PE=1 SV=1

MALLFLLPLVMQGVSAEMGTADLGPSSVPTPTNVTIESYNNPIVYWEYQIMPQVPVFT  
VEVKNYGVKNSEWIDACINISHHCNISDHVGDPNSLWVRVKARVGQKESAYAKSEEF  
VCRDGKIGPPKLDIRKEEKQIMIDIFHPSVFVNGDEQEVDYDPETTCYIRVYNVYVRMNG  
SEIQYKILTQKEDDCDEIQCLAIQVSSLNSQYCVSAEGLVHVWGVTTEKSKEVCITIFN  
SSIKGSLWIPVVAALLLFLVLSLVFICFYIKKINPLKEKSIILPKSLISVVRSALETGP  
ESKYVSLITSYQPFSLKEVVCCEPLSPATVPGMHTEDNPGKVEHTEELSSITEVVTTEE

NIPDVVPGSHLTPIERESSPLSSNQSEPGSIALNSYHSRNCSESDHSRNGFDTDSSCLE  
SHSSLSDSSEFPPNNKGEIKTEGQELITVIKAPTSFGYDKPHVLVDLLVDDSGKESLIGYR  
PTEDSKEFS

>sp|P55103|INHBC\_HUMAN Inhibin beta C chain OS=Homo sapiens GN=INHBC PE=2 SV=1  
MTSSLLLAFLLLAPTIVATPRAGGQCPACGGPTLELESQRELLLDLAKRSILDKLHLTQR  
PTLNRPVSRALRTALQHLHGVPQGALLEDNREQECEIISFAETGLSTINQTRLDHFHSS  
DRTAGDREVQQASLMFFVQLPSNTTWTLKVRVLVLGPHNTNLTLATQYLLEVDASGWHQL  
PLGPEAAACSQGHLTLELVLEGQVAQSSVILGGAHRPFVAARVRVGKGKHIHRRGIDC  
QGGSRMCCRQEFFVDFREIGWDWIIQPEGYAMNFCIGQCPLHIAGMPGIAASFHTAVLN  
LLKANTAAGTTGGGSCCVPTARRPLSLLYDRDSNIVKTDIPDMVVEACGCS

>sp|P58166|INHBE\_HUMAN Inhibin beta E chain OS=Homo sapiens GN=INHBE PE=1 SV=1  
MRLPDVQLWLVLWALVRAQGTGSVCPCGGSKLAPQAERALVLELAKQILDGLHLTSR  
PRITHPPPQAALTRALRRLQPGSVAPNGEEVISFATVTDSTSAYSSLLTFHLSTPRSHH  
LYHARLWLHVLPTLPGTLCLRIFRWGPRRRRQGSRTLLAEHHITNLGWHITLTPSSGLRG  
EKSGVLKLQLDCRPLEGNSTVTGQPRRLDTAGHQPFLELKIRANEPGAGRARRRTPTC  
EPATPLCCRRDHYVDFQELGWRDWILQPEGYQLNYCSGQCPPHLAGSPGIAASFHSAVFS  
LLKANNPWPASTSCCVPTARRPLSLLYLDHNGNVVKTDVPDMVVEACGCS

>sp|Q0D2I5|IFF01\_HUMAN Intermediate filament family orphan 1 OS=Homo sapiens GN=IFF01  
PE=2 SV=2

MNPLFGPNLFLQQEQQLAGPLGDSLGGDHFAGGGDLPPAPLSPAGPAAYSPPGPGPAP  
PAAMALRNDLGSNINVLKTLNLRFCFLAKVHELERRNRLLEKQLQQAEEGKQGRRLGL  
RRDQAVQTGFVSPIRPLGLQLGARPAAVCSPSARVLGSPARSPAGPLAPSAASLSSSTS  
TSTTYSSSARFMPGTIWSFSHARRLGPGLPTLVQGPGLSWVHPDGVGVQIDTITPEIRA  
LYNVLAKVKRERDEYKRRWEEETVRIQLQDRVNELQEEAQEADACQEELALKVEQLKAE  
LVVFKGLMSNNLSELDTKIQEKAMKVDMDICRRIDITAKLCDVAQQRNCEMDIQMFQVPS  
MGGRKRERKAAVEEDTSLSESEGRPRQPDGDEEESTALSINEEMQRLNQLREYDFEDDCD  
SLTWEETEETLLLWEDFSGYAMAAEAQGEQEDSLEKVIKDTESLFKTRKEYQETIDQI  
ELELATAKNDMNRHLHEYMEMCSMKRGLDVQMETCRRLITQSGDRKSPAFTAVPLSDPPP  
PPSEAEDSDRDVSSDSSMR

>sp|Q5TF58|IFF02\_HUMAN Intermediate filament family orphan 2 OS=Homo sapiens GN=IFF02  
PE=2 SV=3

MVNSLLFGEMALAFGCPPGGGGGGCPGGGGGGGAGPGSPVTAALRDDLGSNIHLLKGL  
NVRFCFLAKVHELERRNRLLEKQLEQQSERERRRLRYKTFSTREQAVQTGPELLRPPAPG  
GGHGLSSGAAAGANANAVALGGLPPGGGSHPPHYGRLPGTIWSYTVRRRTGGGGVETVQG  
PGVSWVHPDGVGVQIDTITPEIRALYNVLAKVKRERDEYKRRWEEELAKRMNLQTMVDTL  
QEAQEAADAIQEEMNEKIERLKAELVVFKGLMSDPMTDLTKIQEKAMKVDMDICRRIDI  
TAKLCDVAQQRNSEDVSKIFQVVPKKKERKVASDDDISEQDGEVNRFSDEVGSMNITDE  
MKRMFNQLRETDFDDDCDSLWEEENEDTLLWEDFTNCNPTIDLQGEQEENLGNLIHET  
ESFFKTRDKEYQETIGQIELELATAKSDMNRHLHEYMEMCSMKRGLDVQMETCRRLIKGS  
ADRNSPSPSSVASSDSGSTDEIQDEFEREADVEPMVS

>sp|P09914|IFIT1\_HUMAN Interferon-induced protein with tetratricopeptide repeats 1  
OS=Homo sapiens GN=IFIT1 PE=1 SV=2

MSTNGDDHQVKDSLEQLRCHFTWELSIDDEMPDLENRVLDQIEFLDTKYSVGIHNLLAY  
VKHLKGQNEEALKSLKEAENLMQEEHDNQANVRSLVTWGNFAWMYYHMGRLAEAQTYLDK



VENICKKLSNPFYRMECEPIDCEEGWALLKCGGKNYERAKACFEKVLEVDPENPESSAG  
YAI SAYRLDGFKLATKNHKPFSLPLRQAVRLNPDNGYIKVLLALKLQDEGQEAEGEKYI  
EEALANSSQTYVFRYAAKFYRRKGSDKALELLKKALQETPTSVLLHHQIGLCYKAQMI  
QIKEATKGQPRGQNREKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAE  
ENFQKLLCMKPVVEETMQDIHFHYGRFQEFQKKSDVNAIIHYLKAIEQASLTRDKSIN  
SLKKLVLRKLRKALDLESLSLLGFVYKLEGNMNEALEYERALARLAADFENSVRQGP

>sp|Q6K0P9|IFIX\_HUMAN Pyrin and HIN domain-containing protein 1 OS=Homo sapiens GN=PYHIN1  
PE=1 SV=1

MANNYKKIVLLKGLEVIN DYHFRI VKSLLSNDLKL NPKMKEEYDKIQIADLMEEKFPGDA  
GLGKLEIEFFKEIPTLGDLAETLKREKLKVANKIESIPVKGII PSKKTQKEVYPATPACT  
PSNRLTAKGAEETLGPQKRKKPSEEETGTRSKMSKEQTRPSCSAGASTSTAMGRSPPPQ  
TSSSAPNTSSTESLKPLANRHATASKNIFREDPIIAMVLNATKVFKYESSENEQRRMFH  
ATVATQTQFFHVKVLNINLKRKFIKKRIIII SNYSKRNSLLEVNEASSVSEAGPDQTFEV  
PKDII RRAKKIPKINILHKQTSGYIVYGLFMLHTKIVNRKTTIYEIQDKTGSM AVVGKGE  
CHNIPCEKGDKLRLFCFRLRKRENMSKLMSEMHSFIQIQKNTNQRSHDSRSMALPQEQQS  
HPKPSEASTTLPESHLKTPQMPPTTPSSSSFTKKDETHPGAQSSPANFRITSPTVAPPLS  
SDTSTNRHPAVP

>sp|P13164|IFM1\_HUMAN Interferon-induced transmembrane protein 1 OS=Homo sapiens  
GN=IFITM1 PE=1 SV=3

MHKEEHEVAVLGPPSTILPRSTVINIHSETSVDPDHVVWSL FNTLFLNWCCLGFI AFAYS  
VKSRDRKMVG DVTGAQAYASTAKCLNIWALILGILMTIGFILLLVFGSVTVYHIMLQIIQ  
EKRGY

>sp|P05015|IFN16\_HUMAN Interferon alpha-16 OS=Homo sapiens GN=IFNA16 PE=2 SV=1

MALSFSLLM AVLVLVSYSICSLGCDLPQTHSLGNRRALILLAQMGRISHFSCLKDRYDFG  
FPQEVFDGNQFQKAQAISAFHEMIQQTFNLFSTKDSSAAWDETLLDKFYIELFQQLN DLE  
ACVTQEVGVVEEIALMNEDSILAVRKYFQRITLYLMGKKYSPCAWEVVRAEIMRSFSFSTN  
LQKGLRRKD

>sp|P01567|IFNA7\_HUMAN Interferon alpha-7 OS=Homo sapiens GN=IFNA7 PE=1 SV=1

MARSFSLLMVVLVSYSICSLGCDLPQTHSLRNRRALILLAQMGRISPF SCLKDRHEFR  
FP EE EFDGHQFQKTQAISVLHEMIQQTFNLFSTEDSSAAWEQS LLEKFSTELYQQLN DLE  
ACV IQEVGVEETPLMNEDFILAVRKYFQRITLYLMEKKYSPCAWEVVRAEIMRSFSFSTN  
LKKGLRRKD

>sp|Q86WN2|IFNE\_HUMAN Interferon epsilon OS=Homo sapiens GN=IFNE PE=2 SV=1

MI IKHFFGTVLVLLASTTIFSLDLKLIIFQQRQVNQESLKLNLQTLSIQQLPHRKNF  
LLPQKSLSPQQYQKGHTLAILHEMLQQIFSLFRANISLDGWEENHTEKFLIQLHQQLEYL  
EALMGLEAEKLSGTLGSDNRLQVKMYFRRIH DYLENQDYSTCAWAIVQVEISRCLFFVF  
SLTEKLSKQGRPLNDMKQELTTEFRSPR

>sp|P01579|IFNG\_HUMAN Interferon gamma OS=Homo sapiens GN=IFNG PE=1 SV=1

MKYTSYILAFQLCIVLGS LGCYCQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWK  
EESDRKIMQSQIVSFYFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTN  
YSVTDLNVQRKAIHELIQVMAELSPA AKTGKRKRSQMLFRGRRASQ

>sp|Q8IZJ0|IFNL2\_HUMAN Interferon lambda-2 OS=Homo sapiens GN=IFNL2 PE=2 SV=1

MKLDMTGDCTPVLV LMAAVLTVTGAVPVARLHGALPDARGCHIAQFKSLSPQELQAFKRA  
KDALEESLLLKDCRCHSRLFPRTWDLRQLQVRERPMALAEALATLKVLEATADTDPALV

DVLDQPLHTLHHILSQFRACIQPQPTAGPRTRGRLHHWLYRLQEAPKKESPGCLEASVTF  
NLFRLLTRDLNLCVASGDLCV

>sp|Q86VF2|IGFN1\_HUMAN Immunoglobulin-like and fibronectin type III domain-containing  
protein 1 OS=Homo sapiens GN=IGFN1 PE=1 SV=2

MAGKLKSHIPGVSIWQLVEEIPGECSTPDFEQKPVTSALEPGKNAVFRAVVCGEPRPEV  
RWQNSKGDLSDDSKYKISSSPGSKEHVLQINKLTGEDTDLYRCTAVNAYGEAACSVRLTV  
IEVGFRKNRKRHREPQEDLRKELMDFRKLLKKRAPPAKKKMDLEQIWQLLMTADRKYDYE  
KICLKYGIVDYRGMRLRLQEMKKEQEDKMAQYINTISSLRHIRVTKDGNKFDLELDLKD  
SQSKIYLYKDGEMIPYGFNNQTKHCLRRLGKRYEFQIQDLRPEDSGIYQVKVEDAVVFST  
ELEASAIIPRVVPLAETHCEEQGDVAFECTLSSPCPSAAWHFRHRLHPSDKYEVVYVSP  
DGLTHRLVVRGARFSDMGPSYSLGTGLYTSSAWLVVEAGKDKDLQSTSADHKLQSRSSGKD  
GRLDIYGERRDATRSSTSRYPGTGSFSKDAQGPMGHFSQGLADMEVQPGEAATLSCTLT  
SDLGPGTWFKDGVKLTTQDGVIFKQDGLVHSLFITHVQGTQAGRYTFVAGDQQSEATLTV  
QDSPTIAPDVTEKLEPLVVKAGKPVIVKIPFQSHLPIQAAWRKDGAEEVVGSSDREAQVD  
LGDGYTRLCLPSAGRKDCGQYSVTLRSEGGSVQAEATLQVIDKPDPPQGPMEVQDCHRAG  
VCLRWPRPRDNGGRTVECYVVERRQAGRSTWLKVGAPADSTTFTDAHVEPGRKYTFVRV  
AVTSEGAGEALESEEILVAPEALPKAPSAPAILSSASSQGITLWTAPRPGPSAHILGYLI  
ERRKKGSTWTAVNDQVPERRWTADVVRQGCQYEFRTAVAPSGPGEPPPSDAVFARD  
PMRPPGLVRNLQVTDRSNTSITLSWAGPDTQEGDEAQGYVVELCSSDSLQWLPCHVGTVP  
VTYTAAGLRPGEGYFVRVTAVNEGGQSQPSALDTLVQAMPVTVCPKFLVDSSTKDLLTV  
KVGDTVVRVPSFEAMPMEVTWLKDLPLPKRSVTVTKDGLTQLLIPVAGLSDSGLYTVV  
LRTLQKGEVAHSFRIRVAACPQAPGPIHLQENVPGTVTAEWEPSPDEAQDVPLHYAVFTR  
SSAHGPWHEAADRIHTNRFTLLGILPGHEYHFRVVAKNELGASKPSDTSQPWCIPRQRDR  
FTVKAPCYREPDLQKPRFLVGLRSHLLPQGCECCMSCAVQGSPPRHVTWFKNDRSLEGN  
PAVYSTDLLGVCSLTIPSVSPKDSGEYKAVAENTLGQAVSTATLIVIEPST

>sp|Q9H665|IGF1\_HUMAN IGF-like family receptor 1 OS=Homo sapiens GN=IGFLR1 PE=1 SV=1

MGPGRCLLTALLLLALAPPEASQYCGRLEYWNPDKCCSSCLQRFGPPPCPDYEFRENC  
GLNDHGDFTVTPPFRKCSSGQCNPDAELCSPCGGAVTPTPAAGGRTPWRCRERPVPK  
GHCPLTPGNPGAPSSQERSSPASSIAWRTPEVPVQQAWPNFLPLVVLVLLLTAVIAILL  
FILLWHLCPKEKADPYYPGLVCGVPNHTPSSSHLSSPGALETGDTWKEASLLPLLSR  
ELSSLASQPLSRLLELEVLEELIVLLDPEPGPGGMAHGTTTHLAARYGLPAAWSTFAY  
SLRPSRSLRALIEMVAREPSASLGQLGTHLAQLGRADALRVLSKLGSSGVCWA

>sp|P01877|IGHA2\_HUMAN Ig alpha-2 chain C region OS=Homo sapiens GN=IGHA2 PE=1 SV=3

ASPTSPKVFPLSLDSTPDQGNVVVACLQGGFFPQEPLSVTWESEGNVTARNFPPSQDAS  
GDLYTTSSQLTLPATQCPDGKSVTCHVKHYTNPSQDVTVPVPPPPPCCHPRLSLHRPA  
LEDLLLGSEANLTCTLTGLRDASGATFTWTPSSGKSAVQGPPELDLCGCYSVSSVLPGCA  
QPWNHGETFTCTAAHPELKTPLTANITKSGNTFRPEVHLLPPPSEELALNELVTLTCLAR  
GFSPKDVLRWLQGSQELPREKYLTWASRQEPSQGTTTFAVTSILRVAEDWKKGDTFSC  
MVGHEALPLAFTQKTIDRMAGKPTHVNVSVVMAEVDGTCY

>sp|P01880|IGHD\_HUMAN Ig delta chain C region OS=Homo sapiens GN=IGHD PE=1 SV=2

APTKAPDVFPPIISGCRHPKDNPPVLAELITGYHPTSVTVTWYMGTSQSPQRTFPEIQR  
DSYMTSSQLSTPLQWRQGEYKCVVQHTASKSKKEIFRWPEPKAQASSVPTAQPPAEG  
SLAKATTAPATTRNTGRGGEEKKEKEKEEQEERETKTPECPSHTQPLGVYLLTPAVQDL  
WLRDKATFTCFVVGSDLKDAHLTWEVAGKVPTGGVEEGLLERHSNGSQSQHSRLTLPRSL

WNAGTSVTCTLNHPSLPPQRLMALREPAAPVKLSLNLASSDPPEAASWLLCEVSGFS  
PPNILLMWLEDQREVNTSGFAPARPPPQPGSTTFWAWSVLRVPAPPSPQPATYTCVVSHE  
DSRTLLNASRSLEVSyvTDHGPMK

>sp|P01854|IGHE\_HUMAN Ig epsilon chain C region OS=Homo sapiens GN=IGHE PE=1 SV=1  
ASTQSPSVFPLTRCCKNIPSNATSVTLGCLATGYFPEPVMVTWDTGSLNGTTMTLPATTL  
TLSGHYATISLLTVSGAWAKQMFTCRVAHTPSSTDWVDNKTFSVCSRDFTPPTVKILQSS  
CDGGGHFPPTIQLLCLVSGYTPGTINITWLEDGQVMDVDLSTASTTQEGELASTQSELT  
SQKHWLSDRYTCQVTYQGHTFEDSTKKCADSNPRGVSAYLSRPSFDLFIKRSPTITCL  
VVDLAPSKGTVNLWTSRASGKPVNHSTRKEEKQRNGTLTVTSTLPVGTDRDWIEGETYQCR  
VTHPHLPRALMRSTTKTSGPRAAPEVYAFATPEWPGSRDKRTLACLIQNFMPEDISVQWL  
HNEVQLPDARHSTTQPRKTKGSGFFVFSRLEVTRAWEQKDEFICRAVHEAASPSQTVQR  
AVSVNPGK

>sp|P01859|IGHG2\_HUMAN Ig gamma-2 chain C region OS=Homo sapiens GN=IGHG2 PE=1 SV=2  
ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS  
GLYSLSSVVTVPSSNFGTQTYTCNVDPKPSNTKVDKTKVERKCCVECPPCAPPVAGPSVF  
LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNAKTKPREEQFNSTFR  
VVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPVYTLPPSREEMTKN  
QVSLTCLVKGFYPSDISEVWESNGQPENNYKTPPMLDSGSSFYLYSKLTVDKSRWQQGN  
VFSCSVMEALHNHYTQKSLSLSPGK

>sp|Q9H2S9|IKZF4\_HUMAN Zinc finger protein Eos OS=Homo sapiens GN=IKZF4 PE=1 SV=2  
MHTPPALPRRFQGGGRVTPGSHRQGKDNLERDPSGGCVPDFLPQAQDSNHFIMESLFCE  
SSGDSSLEKEFLGAPVGPSVSTPNSQHSSPSRSLANSIKVEMYSDDESSRLLGPDERLL  
EKDDSVIVEDSLSEPLGYCDGSGPEPHSPGGIRLPNGKLCDCVMVCIGPNVLMVHKRS  
HTGERPFHCNQCASFTQKGNLLRHIKLHSGEKPFCPCNYACRRRDALTGHLRTHSVS  
SPTVGKPKYKCNCGRSYKQQTLEEKKERCHNYLQSLSTEAQALAGQPGDEIRDLEMVPD  
SMLHSSSERPTFIDRLANSLTKRKRSTPQKFVGEKQMRFSLSLPHYDVNSGGYEKDELV  
AHSLEPGFGSSLAFFVGAHLRPLRLPPTNCISELTPVISSVYTQMQLPGRLELPGSRE  
AGEGPEDLADGGLLYRPRGPLTDPGASPSNGCQDSTDTESNHEDRVAGVVSPLPQGPPQ  
PPPTIVVGRHSPAYAKEDPKPQEGLLRGTPGPSKEVLRVVGESGEPVKAFAKCEHCRILFL  
DHVMFTIHMGCGRDPFECNICGYHSQDRYEFSSHIVRGEHKVG

>sp|Q9UKT9|IKZF3\_HUMAN Zinc finger protein Aiolos OS=Homo sapiens GN=IKZF3 PE=1 SV=2  
MEDIQTNAELKSTQEQSVAESA AVLNDYSLTKSHEMENVDSGEGPANEDDIGDDSMKV  
KDEYSERDENVLKSEPMGNAEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNC  
DVCGLSCISFNVLMVHKRSHTGERPFQCNQCASFTQKGNLLRHIKLHTGEKPFKCHLCN  
YACQRRDALTGHLRTHSVEKPYKCEFCGRSYKQRSSLEEKKERCRTFLQSTDPGDTASAE  
ARHIKAEMGSERALVLDRLASNAKRKSSMPQKFIDGEKRHCFDVNYSYMYEKESELIQ  
TRMMDQAINNAISYLGAELRLVQTPAPTSEMVPVISSMYPIALTRAEMSNGAPQELE  
KKSIIHLPEKSVPSERGLSPNNSGHDSTDSDNHEERQNHIIYQQNHMVLSRARNGMPLLKE  
VPRSYELLKPPPICRDSVKVINKEGEVMDVYRCDHCRVFLFDYVMFTIHMGCGRDPF  
ECNMCGRSHDRYEFSSHIARGEHRALLK

>sp|P22301|IL10\_HUMAN Interleukin-10 OS=Homo sapiens GN=IL10 PE=1 SV=1  
MHSSALLCCLVLLTGVRASPGGTQSENSCTHFPGNLPMRLDLRDAFSRVKTFQMKDQ  
LDNLLLKESLLEDFKGLGCQALSEMIQFYLEEVPQAENQDPDIKAHVNSLGENLKTLR  
LRLRCHRFLPCENKSKAVEQVKNAFNKLQEKGIYKAMSEFDIFINYIEAYMTMKIRN

>sp|Q9NPH9|IL26\_HUMAN Interleukin-26 OS=Homo sapiens GN=IL26 PE=1 SV=1

MLVNFILRCGLLLVTLSLAIAHKQSSFTKSCYPRGTLSQAVDALYIKAAWLKATIPEDR  
IKNIRLLKKKTKKQFMKNCQFQEQLLSFFMEDVFGQLQLQGCKKIRFVEDFHSLRQKLSH  
CISCASSAREMKSITRMKRIFYRIGNKGIYKAISELDILLSWIKKLESSQ

>sp|P26951|IL3RA\_HUMAN Interleukin-3 receptor subunit alpha OS=Homo sapiens GN=IL3RA PE=1 SV=1

MVLLWLTLLLIAPCLLQTKEDPNPPITNLRMKAKAQQLTWDLNRNVTDIECVKDADYSM  
PAVNNSYCQFGAISLCEVTNYTVRVANPPFSTWILFPENSGKPWAGAENLTCWIHDVDFL  
SCSWAVGPGAPADVQYDLYLVANRRQQYECLHYKTDAQGTRIGCRFDDISRLSSGSQSS  
HILVRGRSAAFGIPCTDKFVVFSSQIEILTPPNMTAKCNKTHSFMHWKMRSHFNRKFRYEL  
QIQKRMQPVITEQVRDRTSFQLLNPGTYTVQIRARERVYEFLSAWSTPQRFECDEEGAN  
TRAWRTSLLIALLGTLALVCVFVICRRYLVMQRLFPRIPHMKDPIGDSFQNDKLVVWEAG  
KAGLEECLVTEVQVVQKT

>sp|P05113|IL5\_HUMAN Interleukin-5 OS=Homo sapiens GN=IL5 PE=1 SV=1

MRMLLHLSLLALGAAYVYAIPTEIPTSAVKETLALLSTHRTLLIANETLRIPVPVHKNH  
QLCTEEIFQGIGTLESQTVQGGTVERLFKNLSLIKYYIDGQKKKCGEERRRVNQFLDYQL  
EFLGVMNTEWIIIES

>sp|P16871|IL7RA\_HUMAN Interleukin-7 receptor subunit alpha OS=Homo sapiens GN=IL7R PE=1 SV=2

MTILGTTFGMVFSLLQVVSAGESGYAQNGDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFE  
DPDVNTTNLEFEICGALVEVKCLNFRKLQEIFYIETKKFLLIGKSNICVKVGEKSLTCKK  
IDLTTIVKPEAPFDLSVIYREGANDFVVTFTNTSHLQKKYVKVLMHDVAYRQEKDENKWITH  
VNLSSTKLTLLQRKLQPAAMYEIKVRSIPDHYFKGFWESESPSYFRTPEINNSSGEMDP  
ILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKNLNVSNP  
ESFLDCQIHRVDDIARDEVEGFLQDTFPQQLEESEKQRLGGDVQSPNCPSEDVVITPES  
FGRDSSLTCLAGNVSACDAPILSSSRSLDCRESGKNGPHVYQDLLLLSLGTTNSTLPPPF  
LQSGILTLNPVAQGGPILTSLSGNQEEAYVTMSSFYQNN

>sp|P10145|IL8\_HUMAN Interleukin-8 OS=Homo sapiens GN=CXCL8 PE=1 SV=1

MTSKLAVALLAAFLISAALCEGAVLPRSAKELRCQCIKTYSKPFHFKFIKELRVIESGPH  
CANTEIIVKLSGDRELCLDPKENWVQRVVEKFLKRAENS

>sp|Q86SU0|ILDRI\_HUMAN Immunoglobulin-like domain-containing receptor 1 OS=Homo sapiens GN=ILDRI PE=1 SV=2

MAWPKLPAPWLLLCTWLPAGCLSLLVTVQHTEYVTLFASIILKCDYTTSACLQDVVVTW  
RFKSFCKDPIFDYYSASYQAALSLGQDPSNDCNDNQREVRIVAQRRGQNEPVLGVDRQR  
KITIQNRADLVINEVMWWDHGYYCTIEAPGDTSGDPDKEVKLIVLHWLTVIFIILGALL  
LLLLIGVCWCQCCPQYCCCYIRCPCCPAHCCCPPEALARHRYMKQAQALGPQMMGKPLYW  
GADRSSQVSSYPMHPLLQRDLSPSSLPQMPMTQTTNQPPIANGVLEYLEKELRNLNLAQ  
PLPPDLKGRFGHPCSMSSLGSEVVERRIIHLPLIRDLSSSRRTSDSLHQQWLTPIPSR  
PWDLREGRSHHHYPDFHQELQDRGPKSWALERRELDPSWSGRHRSSRLNGSPIHWSDRDS  
LSDVPSSEARWRPSSHPPFRSRCQERPRRSPRESTQRHGRRRRRHRSYSPPLPSGLSSWS  
SEEDKERQPQSWRAHRRGSHSPHWPEEKPPSYRSLDITPGKNSRKKGSVERRSEKSSHS  
GRSVVI

>sp|P30740|ILEU\_HUMAN Leukocyte elastase inhibitor OS=Homo sapiens GN=SERPINB1 PE=1 SV=1

MEQLSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHF

NTVEEVHSRFQSLNADINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVD  
FQHASEDARKTINQVVKGTTEGKIPELLASGMVDNMTKLVVNAIYFKGNWKDKFMKEAT  
TNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEELSMVILLPDDIEDES  
TGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSS  
KADLSGMSGARDIFISKIVHKSFEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLF  
FIRHNSSGSILFLGRFSSP

>sp|Q12905|ILF2\_HUMAN Interleukin enhancer-binding factor 2 OS=Homo sapiens GN=ILF2 PE=1  
SV=2

MRGDRGRGRGGRFGSRGGPGGGFRPFVPHIPDFYLCEMAFPRVKPAPDETSFSEALLKR  
NQDLAPNSAEQASILSLVTKINNVIDNLIVAPGTFEVQIEEVQVGSYKKGTMTHNVA  
DLVVILKILPTLEAVALGNKVVESLRAQDPSEVLMTLNETGFEISSDATVKILITTV  
PPNLRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLRLLKDLRIRFPGFPEPL  
TPWILDLLGHYAVMNNPTRQPLALNVAYRRCLQILAAGLFLPGSGITDPCESGNFRVHT  
VMTLEQQDMVCYTAQTLVRILSHGGFRKILGQEGDASYLASEISTWDGVIVTPSEKAYEK  
PPEKKEGEEEEENTEPPQGEESMETQE

>sp|Q12906|ILF3\_HUMAN Interleukin enhancer-binding factor 3 OS=Homo sapiens GN=ILF3 PE=1  
SV=3

MRPMRIFVNDDRHVMKHSVYPTQEELEAVQNMVSHTERALKAVSDWIDEQEKGSSEQA  
ESDNMDVPPEDDSKEGAGEQKTEHMTRTLGRVVRVGLVAKGLLLKGDLDLELVLLCKEKP  
TTALLDKVADNLAIQLAAVTEDKYEILQSVDDAAIVIKNTKEPPLSLTIHLTSPVREEM  
EKVLAGE TLSVNDPPDVLDRQCLAAALASLRHAKWFQARANGLKSCVIVIRVLRDLCTRV  
PTWGPLRGWPLELLCEK SIGTANRPMGAGEALRRVLECLASGIVMPDGS GIYDPCEKEAT  
DAIGHLDRQQREDITQSAQHALRLAAFQQLHKVLGMDPLPSKMPKKPKNENPVDYTVQIP  
PSTTYAITPMKRPMEEDEGEEKSPSKKKKKIQKKEKAEPQAMNALMRLNQLKPGLQYKL  
VSQTGPVHAPIFTMSVEVDGNSFEASGPSKKTAKLHVAVKVLQDMGLPTGAEGRDSSKGE  
DSAEETEAKPAVVAPAPVVEAVSTPSAAFPDATAEQGPILTKHGKNPVMELNEKRRGLK  
YELISETGGSHDKRFVMEVEVDGQKFQAGSNKKVAKAYAALAEKLPDTPALDANK  
KKRAPVPVRGGPKFAAKPHNPGFGMGGMHNEVPPPPNLRGRGRGGSIRGRGRGRGFGA  
NHGGYMNAGAGYSYGYGNSATAGYSQFYSNGGHSGNASGGGGGGGGSSGYGSYYQGD  
NYNPVPVKHAGKKQPHGGQQKPSYSGYQSHQGGQQSYNQSPYSNYGPPQKQKGYNHG  
QGSYSYSNSYNPGGGGSDYNYESKFNYSGSGGRSGGNSYSGSGASYNPGSHGGYGGGS  
GGSSSYQGKQGGYSQSNYNPSPGSGQNYSGPPSSYQSSQGGYGRNADHSMNYQYR

>sp|P20839|IMDH1\_HUMAN Inosine-5'-monophosphate dehydrogenase 1 OS=Homo sapiens GN=IMPDH1  
PE=1 SV=2

MADYLISGGTGYVPEDGLTAQQLFASADGLTYNDFLILPGFIDFIADEVDLTSALTRKIT  
LKTPLISSPMDTVTEADMAIAMALMGGIGFIHHNCTPEFQANEVRKVKKFEQGFITDPVV  
LSPSHTVGDVLEAKMRHGFSGIPITETGTMGSKLVGIVTSRDIDFLAEKDHTTLLSEVMT  
PRIELVAPAGVTLKEANEILQRSKKGKLPVNDCELVAIARTDLKKNRDYPLASKDS  
QKQLLCGAAGVTREDDKYRLDLLTQAGVDVIVLDSSQGNVYQIAMVHYIKQKYPHLQVI  
GGNVVTAQAQKNLIDAGVDGLRVGMCGSICITQEVMACGRPQGTAVYKVAEYARRFGVP  
IIADGGIQTGVHVKALALGASTVMMGSLAATTEAPGEYFFSDGVRLKKYRGMGSLDAM  
EKSSSSQKRYFSEGDKVKIAQGVSGSIQDKGSIQKFVPYLIAGIQHGCQDIGARSLSVLR  
SMMYSGELKFEKRTMSAQIEGGVHGLHSYEKRLY

>sp|Q9Y2B9|IPKG\_HUMAN cAMP-dependent protein kinase inhibitor gamma OS=Homo sapiens  
GN=PKIG PE=2 SV=1

MMEVESSYSDFISCDRTGRRNAVDPDIQGDSEAVSVRKLAGDMGELALEGAEGQVEGSAPD  
KEAGNPQSSDGTSS

>sp|Q9H2U2|IPYR2\_HUMAN Inorganic pyrophosphatase 2, mitochondrial OS=Homo sapiens GN=PPA2  
PE=1 SV=2

MSALLRLLRTGAPAAACLRLGTSAGTGSRRAMALYHTEERGQPCSQNYRLFFKNVTGHYI  
SPFHDIPLVNSKEENGIPMKKARNDYENLNFNMIVEIPRWNAKMEIATKEPMNPIKQY  
VKDGKLRVYANIPFYKGYIWNYGTLPTWEDPHEKDKSTNCFGDNPIDVCEIGSKILSC  
GEVIHVKILGILALIDEGETDWKLIANANDPEASKFHDIDVKKFKPGYLEATLWFR  
YKVPDGPENQFAFNGEFKNKAFALVLIKSTHQCWKALLMKKCNCGAINCTNVQISDSPF  
RCTQEEARSLVESVSSSPNKESNEEEQVWHFLGK

>sp|A6NCM1|IQCAL\_HUMAN IQ and AAA domain-containing protein 1-like OS=Homo sapiens  
GN=IQCAL PE=3 SV=2

MSEGAYQLWESSHATLQELLDQEQLLEPAPDRERQSFQYRLASLYLHGLRRFDTV  
YDQMVQPQKRRLRLRLDGVAGRVLELKDELVRADLCENHCLDRVLQDFKLTPADLEVPI  
PKYFLEEQSTTVRERGLILAEILSRLEPVSSQKSFTGMHRTEAIIIVQKAERARQGRLRA  
TFMREIRRDEEQDGRIREDGWHKFSQGQAAVTIQKVWKGYLQRKRTQQDRRMEMEFIGML  
PSPNQVEHLSIISQPCLVEDVQRLRQMEKEEEFRAAMVKAHDSLVELEGPMKEKMKEQI  
RQWFIECHDLTGRFPDYPDASSGGSYSIFADKTPEQVRMELEMQMENRKKEQKSKEKG  
KDEKEKKKGKEEKAKKGEVDAVLQVLPSKIPMICAGHEEYLNWKNRCESIHPSQNYDS  
ETLREEKRKEVELEIRIQVDELMRQELRKLRLAVDKEKRPLRAPKKTGKKTGKKKEKDL  
TSDRSVESLYEELVISGLLRKSESVALKDYIGDFLYLGSTLSLVKKLPMPSLFDIRQNV  
LYAVLRLGSPDIHIMAPLIRSILLVGPSGMGKKMLVKAVCTETGANLFDLSPENLLGKYP  
GRNGAQMVMVHIVFKVARLLQPSVIWIGNAEKNFYKKTPEKDKEMDPKRIKKDLTKALRL  
TPGDRVMLIGTTSRPLAEMRGLCRVYERILFMPRPDYASRYVLWKRMIARGIQPTQHL  
DISALAKVSDGYTPGHILQAIQSVLSERRFLQLSKRPLVASEFLGQLVKLDPVYREEEES  
LKDWFYFKTPLGKSKMHRMDQLEAEEAKLDKEKKKK

>sp|A8MYZ5|IQCF6\_HUMAN IQ domain-containing protein F6 OS=Homo sapiens GN=IQCF6 PE=3 SV=3  
MVRRTLLQAALRAWVIQCWWSMQAKMLEQRRRLALRLYTCQEWAVVKVQAQVRMWQARR  
RFLQARQAACIIQSHWRWHASQTRGLIRGHYEVVASRLELDIEILMT

>sp|Q13576|IQGA2\_HUMAN Ras GTPase-activating-like protein IQGAP2 OS=Homo sapiens  
GN=IQGAP2 PE=1 SV=4

MPHEELPSLQRPRYSIVDDERLSAEEMDERRRQNIAYEYLCHLEEAKRWMEVCLVEELP  
PTTELEELRNGVYLAKLAKFFAPKMVSEKKIYDVEQTRYKSGLHFRHTDNTVQWLRAM  
ESIGLPKIFYPETTDVYDRKNIPMIYCIHALSLYLFKLGIAPQIQDLLGKVDFTEEEIS  
NMRKELEKYGIQMPFSFKIGGILANELSVDEAALHAAVIAINEAVEKGIAEQTVVTLRNP  
NAVLTIVDDNLAPEYQKELWDAKKKKEENARLNKNCISEEERDAYEELLTQAEIQGNINK  
VNRQAAVDHINAVIPEGDPENTLLALKKPEAQLPAVYPFAAAMYQNELFNLQKQNTMNYL  
AHEELLIAVEMLSAVALLNQALESNDLVSQVQNLRSIPAIGLNNLDKAYVERYANTLLSVK  
LEVLSSQGQDNLWNEIQNCIDMVNAQIQEENDRVVAVGYINEAIDEGNPLRTLETLLPT  
ANISVDPAHAHQHYQDVLYHAKSQKLGDSESVSKVLWLDEIQQAVDDANVDKRAKQWVT  
LVVDVNQCLEGKKSSDILSVLKSSTSNANDI IPECADKYDALVKAKELKSERVSSDGSW  
LKLNLHKKYDYNYNTDSKESSWVTPESCLYKESWLTGKEIEDIIIEEVTVGYIRENIWSAS

EELLRLRFQATSSGPILREEFEARKSFLHEQEENVVKIQAFWKGYQRKEYMHRRQTFIDN  
TDSIVKIQSWFRMATARKSYLSRLQYFRDHNEIVKIQSLLRANKARDDYKTLVGSENPP  
LTVIRKFVYLLDQSDLDQEELEVARLREEVVTKIRANQQLKDLNMDIKIGLLVKNRI  
TLEDVISHSKLKNKKGGEMEILNNTDNQGIKSLSKERRKTLETYQQLFYLLQTNPLYLA  
KLIFQMPQNKSTKFMDTVIFTLYNYASNQREEYLLLKFKTALEEEIKSKVDQVQDIVTG  
NPTVIKMOVSVFNRGARGQNTLRQLLAPVVKEIIDDKSLIINTNPVEVYKAWVNQLETQTG  
EASKLPYDVTTEQALTYPEVKNKLEASIENLRRVTDKVLNSIISSDLLPYGLRYIAKVL  
KNSIHEKFPDATEDELLKIVGNLLYYRYMNPATVAPDGFIDIMTAGGQINSQRRNLGS  
VAKVLQHAASNKLFEGENEHLSSMNNYLSETYQEFRKYFKEACNVPEPEEKFNMDKYTDL  
VTVSKPVIYISIEEIISTHSLLEHQDAIAPEKNDLSELLGSLGEVPTVESFLGEGAVD  
PNDPNKANTLSQLSKTEISLVLTISKYDIEDGEAIDSRSLMIKTKKLIIDVIRNQPGNTLT  
EILETPATAQQEVDHATDMVSRAMIDSRTPEEMKHSQSMIEDAQLPLEQKKRKIQNRNLT  
LEQTGHVSSSENKYQDILNEIAKDIRNQRIYRKLKAELAKLQQTNLNKKAAFYEEQIN  
YYDTYIKTCLDNLKRKNTRRSIKLDGKGEPKGAKRAKPVKYTAAKLHEKGVLLDIDDLQT  
NQFKNVTFDIIATEDVGIFDVRSKFLGVEMEKVQLNIQDLLQMYYEGVAVMKMFDKVKVN  
VNLLIYLLNKKFYGK

>sp|Q9Y616|IRAK3\_HUMAN Interleukin-1 receptor-associated kinase 3 OS=Homo sapiens  
GN=IRAK3 PE=1 SV=2

MAGNCGARGALSAHTLLFDLPPALLGELCAVLDSCDGALGWRGLAERLSSSWLDVRHIEK  
YVDQGKSGTRELLWSWAQKNKTIGDLLQVLQEMGHRAIHLITNYGAVLSPSEKSYQEGG  
FPNILFKETANVTVDNVLPEHNEKGILLKSSISFQNIIEGTRNFHKDFLIGEGEIFEVY  
RVEIQNLTYAVKLFKQEKKMQCKKHWRFLSELEVLLFHHPNILELAAYFTETEFCL  
YPMYMRNGTLFDRLQCVGDTAPLPWHIRIGILIGISKAHYLHNVPSCSVICGSISSANIL  
LDDQFQPKLTDFAMAHFRSHLEHQSTINMTSSSSKHLWYMPEEYIRQGKLSIKTDVYSF  
GIVIMEVLTGCRVLLDDPKHIQLRDLLRELMKRGDLSCLSFDDKKVPPCPRNFSAKLFC  
LAGRCAATRACLKRPMSDEVNLTLESTQASLYFAEDPPTSLKSFRCPSPLFLENVPSIPVE  
DDESQNNNLLPSDEGLRIDRMTQKTPFECSQSEVMFLSLDKKPESKRNEEACNMPSSSCE  
ESWFPKYIVPSQDLRPYKVNIDPSSEAPGHSCSRPVESSCSSKFSWDEYEQYKKE

>sp|P35568|IRS1\_HUMAN Insulin receptor substrate 1 OS=Homo sapiens GN=IRS1 PE=1 SV=1

MASPPESDGFSDVRKVGYLKPKSMHKRFFVLRAASEAGGPAREYYENEKKWRHKSSAP  
KRSIPLSCFNINKRADSKNHLVALYTRDEHFAIAADSEAEQDSWYQALLQLHNRAGH  
HDGAAALGAGGGGSCSGSSGLGEAGEDLSYGDVPPGPAFKEVWQVILKPKGLGQTKNLI  
GIYRLCLTSKTI SFVKLNSEAAAVVLQLMNIRRCGHSNFFFI EVGRSAVTGPGEFWMQV  
DDSVAQNMHETILEAMRAMSDEFPRSKSQSSSNCSNPISVPLRRHHLNPPPSQVGLT  
RRSRTESITATSPASVMVGKPGSFRVRASSDGEGTMSRPASVDGSPVSPSTNRTHAHRHR  
GSARLHPPLNHSRIPMPASRCSPSATSPVSLSSSSTSGHGSTDCLFPRRSSASVSGSP  
SDGGFISSDEYSSPCDFRSSFRSVTPDSLGHTPPARGEEELSNIYICMGKGKGPSTLTAPN  
GHYILSRGGNGHRCTPGTGLGTSPALAGDEAASAADLDNRFRKRTHSAGTSPTITHQKTP  
SQSSVASIEEYTEMPAYPPGGGSGGRLPGHRHSAFVPTRSYPEEGLEMHPLERRGGHHR  
PDSSTLHTDDGYMPMSPGVAPVPSGRKSGDYMPMSPKSVSAPQQIINPIRRHPQRVDPN  
GYMMMSPSGGCSPDIGGGPSSSSSSSNVPSGTSYGKLWTNGVGGHSHVLPHPKPPVES  
SGGKLLPCTGDYMNMSPGVDSNTSSPSDCYYGPEDPQHHPVLSYYSLPRSFKHTQRPGE  
EEGARHQHLRLSTSSGRLLYAATADSSSSTSSDSLGGGYCGARLEPSLPHPHHQLVQPH  
LPRKVDTAQAQNSRLARPTRLSLGDPKASTLPRAREQQQQQQPLHPPEPKSPGEYVNIE

FGSDQSGYLSGPVAFHSSPSVRCPSQLQPAPREEETGTEEYMKMDLGPGRRAAWQESTGV  
EMGRLGPAPPGAASICRPTRAVPSSRGDYMTMQMSCPRQSYVDTSPAAPVSYADMRTGIA  
AEEVSLPRATMAAASSSSAASASPTGPQGAAELAAHSSLLGGPQGGGMSAFTRVNLSPN  
RNQSAKVI RADPQGCRRRHSSETFSSTPSATRVGNTVPFGAGAAVGGGGSSSSSESVKR  
HSSASFENVWLRPGELGGAPKEPAKLCAAGGLENLNYIDLVLKDFKQCPQECTPEPQ  
PPPPPPPHQPLGSGESSSTRSSEDL SAYASISFQKQPEDRQ

>sp|014654|IRS4\_HUMAN Insulin receptor substrate 4 OS=Homo sapiens GN=IRS4 PE=1 SV=1

MASCSFTRDQATRRLRGAAAAAALAAVTTPLLSSGTPTALIGTGSSCPGAMWLSTAT  
GSRSDSESEEDLPVGEEVCKRGYLKQKHGHRRYFVLKLETADAPARLEYENARKFRH  
SVRAAAAAAASGAAIPPLIPPRRVITLYQCFSVSQRADARYRHLIALFTQDEYFAMV  
AENESEQESWYLLLSRLILESKRRRCGLGAQPDGEPALAAAAAEPFVKDVWQVIVK  
PRGLGHRKELSGVFRCLCTDEEVVFRNLNTEVASVVVQLLSIRRCGHSEYFFLEVGRST  
VIGPGELWMQVDDCVVAQNMHELFLEKMRALCADEYRARCRRSYISIGAHLLTLLSARRH  
LGLVPLEPGGWLRRSRFEQFCHLRAIGDEDEMLFTRRFVTPSEPVASRRGRLHLPRGR  
RSRRAVSVPASFRRRLAPSPARPRHPAEAPNNGARLSSEVSGSGSGNFGEENPQGGKEDQ  
EGSGGDYMPMNNWGSNGRSGGGGQSGNGQSSSHSSGGNQCSEGGQSGRGGQSGNGQGS  
GGNQCSDGQGTAGGHGSGGGQRPGGGHGSGGGQPGDGHGSGGGKNSGGGKSGSGKGS  
DGDGERGKSLKKRSYFGKLTQSKQQMPPPPPPPPPPAGGTGGKGSGRFRLYFCVD  
RGATKECKEAKVKDAEIPGAARGPHRARAFDEDEDDPYVPMRPGVATPLVSSSDYMPM  
APQNVASAKKRHSRSPFEDSRGYMMFPRVSPPPAPSPPKAPDTNKEDDSKDNDSSESYM  
FMAPGAGAIKPNRNPQGGSSSKSWSSYFSLPNPFRSSPLGQNDSEYVPMPLPGKFLGRG  
LDKEVSYNWDPKDAASKPSGEGSFSKPGDGGSPSKPSDHEPPKNKAKRPNRLSFITKGYK  
IKPKPQKPTHEQREADSSSDYVNMDFTKRESNTPAPSTQGLPDSWGIIAEPRQSAFSNYV  
NVEFGVPFPNPANDLSDLLRAIPRANPLSLDSARWPLPPLPLSATGSNAIEEGDYIEVI  
FNSAMTPAMALADSAIRYDAETGRIYVDPFSECCMDISLSPSRCSEPPPVARLLQEEEQ  
ERRRPQSRSQSFFAAARAASAFPTDSLRLDLPSSAPAVASAAEPTLALSQVVAASAL  
AAAPGIGAAAAAGFDSASARWFQPVANAADAEAVRGAQDVAGGSNPGAHNPSANLARGD  
NQAGGAAAAAAPEPPPSRRVPRPPEREDSDNDDTHVRMDFARRDNQFDSPKRGR

>sp|Q9BZI1|IRX2\_HUMAN Iroquois-class homeodomain protein IRX-2 OS=Homo sapiens GN=IRX2  
PE=1 SV=2

MSYPQGYLYQAPGSLALYSCPAYGASALAAPRSEELARSASGSFAFSPYPGSAFTAQAAT  
GFGSPLQYSADAAAAAGFPSYMGAPYDAHTTGMTGAISYHPYGSAAYPYQLNDPAYRKN  
ATRDATATLKAWLNEHRKNPYPTKGEKIMLAIITKMTLTQVSTWFANARRRLKKENKMTW  
APRNKSEDEDEDEGDATRSKDESPDKAQEGTETSAEDEGISLHVDSLTDHSCSAESDGEK  
LPCRAGDPLCESGSECKDYDDLEDDDDDEEGERGLAPPKPVTSSPLTGLEAPLLSPPP  
EAAPRGGRKTPQGSRTSPGAPPASKPKLWSLAEIATSDLKQPSLPGCGPPGLPAAAAP  
ASTGAPPGGSYPASPILLGRPLYTSPFYGNNTNYGNLNAALQGQGLLRYSAAAAPGEA  
LHTAPKAASDAGKAGAHPLESHYRSPGGGYEPKKDASEGCTVVGGGVQPYL

>sp|P86397|HTD2\_HUMAN Hydroxyacyl-thioester dehydratase type 2, mitochondrial OS=Homo  
sapiens GN=RPP14 PE=1 SV=1

MFPLISSHHLWWGGLRRTVCLNLPVLTQLHFQMHKIVGDRAELRRAFTQTDVATFSELT  
GDVNPLHLNEDFAKHTKFGNTIVHGVLINGLISALLGTMKMPGPGCVFLSQEISFPAPLYI  
GEVVLASA EVKKLKRFAIIIVSCSVIESKKTVMGWVKVMVPEASKS



>sp|043464|HTRA2\_HUMAN Serine protease HTRA2, mitochondrial OS=Homo sapiens GN=HTRA2 PE=1 SV=2

MAAPRAGRAGWSLRAWRALGGIRWRRPRLTPDLRALLTSGTSDPRARVTYGTPSLWAR  
LSVGVTEPRACLTSGTPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVAGGAVLLL  
LWGGGRGPPAVLAAPVSPPPASPRSQYNFIADVVEKTAPAVVYIEILDRHPFLGREVPIS  
NGSGFVVAADGLIVTNAHVADRRRVVRLLSGDTYEAVVTAVDPVADIATLRIQTKEPL  
PTLPLGRSADVRQGEFVVMGSPFALQNTITSGIVSSAQRPARDLGLPQTNVEYIQTDA  
IDFGNSGGPLVNLDEGIVGNTMKVTAGISFAIPSDRLREFLHRGEKKNSSSGISGSQRR  
YIGVMMMLTSPSILAELQLREPSFPDVQHGVLHKVILGSPAHRAGLRPGDVILAIGEQM  
VQNAEDVYEAVRTQSQLAVQIRRGRETTLTYTPEVTE

>sp|060921|HUS1\_HUMAN Checkpoint protein HUS1 OS=Homo sapiens GN=HUS1 PE=1 SV=1

MKFRAKIVDGACLNHFTRISNMIAKLAKTCTLRISPDKLNFLCDKLANGGVSMWCELEQ  
ENFFNEFQMEGVSAENNEIYLELTSENLSRALKTAQNARALKIKLTNKHFPCLTVSVELL  
SMSSSSRIVTHDIPKIVPRKLWKDLQEPVVPDPDVSIIYLPVLKTMKSVVEKMKNISNHL  
VIEANLDGELNLKIETELVCVTHFKDLGNPPLASESTHEDRNVHMAEVHIDIRKLLQF  
LAGQQVNPTKALCNIVNNKMHFDLLHEDVSLQYFIPALS

>sp|Q96N76|HUTU\_HUMAN Urocanate hydratase OS=Homo sapiens GN=UROCI PE=1 SV=1

MSSLQALCSGLPLRPLPENRGRQAGVPHAPVRTPSLSPVEKQLALRNALRYFPDPVQELL  
APEFAQELQLYGHIIYMYRFCPDIEMRAYPIEQYPCQTKVAAAIMHMIMNLDPAVAQFPQ  
ELVTYGGNGQVFSNWAQFWLTMFYLSKMTTEEQLVMYSGHPLGLFPSSRSAPRLVITNGM  
VIPNYSRTEYEKLFALGVTMYGQMTAGSYCYIGPQGIVHGTVLTVLNAARRYLGIEDLA  
GKVFVTSGLGGMSGQAQAAVIVGCGVIAEVDKAALEKRRHQWLMEVTDSLDRCIQRL  
REARKKKEVLSLGYHGNVALWERLVHELDTTGECLVDLGSDQTSCHNPFNGGYYPVQLS  
FTEAQSLMASNPAVKDLVQESLRRQVSAINRLAEEKFFFWDYGN AFLLEAQRAGADVEK  
KGAGRTEFRYPSYVQHIMGDIFSQGGFPFRWVCTSGDPQDLAVTDELATSVLEEAIADGV  
KVSVKLQYMDNIRWIREAARHRLVVGSQLRILYSDQKGRVAIAVAINQAIACRRIKAPVV  
LSRDHHDVSGTDSPFRETSNIYDGS AFCADMAVQNFVG DACRGATWVALHNGGGVGWGEV  
INGGFLVLDGTPEAEGRARLMLSWDVSNGVARRCWSGNQKAYEIIICQTMQENSTLVVTL  
PHKVEDERVLQQALQL

>sp|AOA0C4DH29|HV103\_HUMAN Immunoglobulin heavy variable 1-3 OS=Homo sapiens GN=IGHV1-3 PE=3 SV=1

MDWTWRILFLVAATGAHSQVLVQSGAEVKKPGASVKVSCKASGYTFTSYAMHWVRQAP  
GQRLEWMGWINAGNGNTKYSQKFQGRVTITRDTASTAYMELSSLRSEDVAVYYCAR

>sp|Q96D96|HVCN1\_HUMAN Voltage-gated hydrogen channel 1 OS=Homo sapiens GN=HVCN1 PE=1 SV=1

MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEQPPPT  
PVSGEEGRAAAPDVAPAPGPAPRAPLDFRGLRKLFSHRFQVIIICLVVLDALLVLAEL  
ILDLKIIQPDKNYYAAMVFHYMSITILVFFMMEIIFKLFVFRLEFFHHKFEILDVVVVV  
SFILDIVLLFQEHQFEALGLLILLRLWRVARIINGIIISVKTRSERQLRLKQMNVLAA  
KIQHLEFSCSEKEQEIERLNKLLRQHGLLGEVN

>sp|P14653|HXB1\_HUMAN Homeobox protein Hox-B1 OS=Homo sapiens GN=HOXB1 PE=1 SV=2

MDYNRMNSFLEYPLCNRGPSAYSAHSAPTSFPPSSAQAVDSYASEGRYGGGLSSPAFQQN  
SGYPAQQPSTLGVFPSSAPSGYAPAAACSPSYGPSQYYPLGQSEGDGGYFHPSSYGAQL  
GGLSDGYGAGGAGPGPYPPQHPPYGNEQTASFAPAYADLLSEDKETPCPSEPNTPTARTF

DWMKVKRNPPTAKVSEPLGSPSLRTNFTTRQLTELEKEFHFNKYLSRARRVEIAATL  
ELNETQVKIWFQNRMRKQKKREREGRVPPAPPGCPKEAAGDASDQSTCTSPASPSSVT  
S

>sp|P13378|HXD8\_HUMAN Homeobox protein Hox-D8 OS=Homo sapiens GN=HOXD8 PE=2 SV=2  
MSSYFVNPLYSKYKAAAAAAGEAINTYYDCHFAPEVGGRHAAAAALQLYGNSAAG  
FPHAPPQAHAPHPSPPPSGTGCGGREGRGQEYFHPGGGSPAAAYQAAPPPPHPPPPPP  
PPPCGGIACHGEPAKFYGYDNLQRQPIFTTQQEAELVQYPDCKSSSGNIGEDPDHLNQSS  
SPSQMFPWMPQAAPGRRRGRQTYSRFQTLELEKEFLFNPYLTRKRRIEVSHALALTERQ  
VKIWFQNRMRKWKKENNKDKFPVSRQEVKGETKKEAQELEEDRAEGLTN

>sp|Q12891|HYAL2\_HUMAN Hyaluronidase-2 OS=Homo sapiens GN=HYAL2 PE=1 SV=4  
MRAGPGPTVTALVLAVSWAMELKPTAPPIFTGRPFVVAWDVPTQDCGPRLKVPLDLNAF  
DVQASPNEGfVNQNTIFYRDLGLYPRFDSAGRSVHGGVPQNVSLWAHRKMLQKRVEHY  
IRTQESAGLAVIDWEDWRPVVVRNWQDKDVYRRLSRQLVASRHPDWPPDRIVKQAQYEF  
FAAQQFMLETLYVKAVRPHLWGFYLPDCYNHDYVQNWESYTGRCPDVEVARNDQLAW  
LWAESTALFPSVYLDETLASSRHGRNFVSFRVQEALRVARTHANHALPVYVFTPTYSR  
RLTGLSEMDLISTIGESAALGAAGVILWGDAGYTTSTETCQYLKDYLTRLLVPYVNVSW  
ATQYCSRAQCHGHGRCVRRNPSASTFLHLSTNSFRLVPGHAPGEPQLRPVGELSWADIDH  
LQTHFRQCQYLWGSQEQWDHRQAAGGASEAWAGSHLTSLALALAFTWT

>sp|Q2M3T9|HYAL4\_HUMAN Hyaluronidase-4 OS=Homo sapiens GN=HYAL4 PE=1 SV=2  
MKVLSEGQLKLCVQPVHLTSWLLIFFILKSISCLKPARLPITYQRKPFIAAWNAPTDQCL  
IKYNLRLNLKMPVIGSPLAKARGQNVTFYVNRGLGYYPWYTSQGVPIINGGLPQNIQLV  
HLEKADQDINYYIPAEDFSGLAVIDWEYWRPQWNRNNSKDVYRQKSRKLISDMGKNVSA  
TDIEYLAKVTFEESAKAFMKETIKLGIKSRPKGLWGYLYPDCHNYNVYAPNYSGSCPED  
EVLRRNELSWLWNSSAALYPSIGVWKS LGDSENILRFSKFRVHESMRISTMTSHDYALPV  
FVYTRLGYRDEPLFFLSKQDLVSTIGESAALGAAGIWIWDMNLTASKANCTKVQFVSS  
DLGSYIANVTRAAEVCSLHLNRNRCIRKMWNAPSYLHLNPASYHIEASEDGEFTVKGK  
ASDSDLAVMADTFSCHCYQGYEGADCREIKTADGCSGVSPSPGSLMTLCLLLASYRSIQ  
L

>sp|P38567|HYALP\_HUMAN Hyaluronidase PH-20 OS=Homo sapiens GN=SPAM1 PE=1 SV=1  
MGVLKFKHIFFRSFVKSSGVSQIVFTFLIPCCLTLNFRAPPVIPNPFLWAWNAPSEFC  
LGKFDEPLDMSLFSFIGSPRINATGQGVTFYVDRLGYYPYIDSITGVTVNGGIPQKISL  
QDHLDKAKKDITFYMPVDNLGMAVIDWEWRPTWNRNWKPKDVYKNRSIELVQQQNVQLS  
LTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYLYFPDCYNHHYKPGYNGSCFN  
VEIKRNDL SWLWNESALYPSIYLTQQSPVAATLYVRNRVREAIRVSKIPDAKSPLPV  
FAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMRSMKSCLLLDNYMET  
ILNPYIINVTLAAMCSQVLCQEQGVCIRKNWNSSDYLHLNPDNFAIQLEKGGKFTVRGK  
PTLEDLEQFSEKFCYSCYSTLSCKEKADVKD TDAVDVCIADGVCIDAFLKPPMETEEPQI  
FYNASPSTLSATMFIVSILFLIISVASL

>sp|Q96M11|HYLS1\_HUMAN Hydrolethalus syndrome protein 1 OS=Homo sapiens GN=HYLS1 PE=1  
SV=1  
MEELLPDGQIWANMDPEERMLAAATAFTHICAGQGEQDVRREAQSIQYDPYSKASVAPGK  
RPALPVQLQYPHVESNPSETVSEASQRLRKPVMKRKVLRRKPDGEVLVTDESIISESES  
GTENDQDLWDLRQRLMNVQFQEDKESSFDVSQKFNLPHEYQGQISQDLICSLQREGMGSP  
AYEQDLIVASRPKSFILPKLDQLSRNRGKTDRVARYFEYKRDWDSIRLPGEDHRKELRWG

VREQMLCRAEPQSKPQHIIYVPNNYLVPTEKKRSALRWGVRCDLANGVIPRKLPFPLSPS

>sp|Q8WUF5|IASPP\_HUMAN RelA-associated inhibitor OS=Homo sapiens GN=PPP1R13L PE=1 SV=4

MDSEAFQSARDFLDMNFQSLAMKHMCLKQMELDTAAAKVDELTKQLESLWSDSPAPPGPQ  
AGPPSRPPRYSSSSIIPEFGSRGSPRKAATDGADTPFGRSESAPTLHPYSPLSPKGRPSS  
PRTPLYLQPDAYGSLDRATSPRPRAFDGAGSSLGRAPSPRPGGPLRQQGPPTPFDFLGR  
AGSPRGSPLAEGPQAFFPERGSPRPPATAYDAPASAFGSSLLGSGGSAFAPPLRAQDDL  
TLRRRPPKAWNESDLDVAYEKKPSQTASYERLDVDFARPASPSLQLLPWRESSLDGLGGTG  
KDNLT SATLPRNYKVSPLASDRRSDAGSYRRSLGSAGPSGTLPRSWQPVSRIPMPSPSPQ  
PRGAPRQRPIPLSMIFKLQNAFWEHGASRAMLPGSPLFTRAPPPKLQPQPQPQPQSQP  
QPQLPPQPQTQPQTPTPAPQHPQQTWPPVNEGPPKPPTLEPEPEIEGLLTPVLEAGDVD  
EGPVARPLSPTRLQPALPPEAQSVPELEEVARVLAIEIPRLKRRGSMEQAPAVALPPTHK  
KQYQQIIISRLFHRHGGPGGGPEPELSPITEGSEARAGPPAPAPPAPIPPPAPSQSSPPE  
QPQSMEMRSVLRKAGSPRKARRARLNPLVLLDAAALTGELEVQAVKEMNDPSQPNEEG  
ITALHNAICGANYSIVDFLITAGANVNSPDSHGWTPLHCAASCNDTVICMALVQHGAEIF  
ATTLSDGATAFEKCDPYREGYADCATYLADVEQSMGLMNSGAVYALWDYSAEFGDELSFR  
EGESVTVLRRDGPEETDWWAALHGQEGYVPRNYFGLFPRVKPQRSKV

>sp|P24593|IBP5\_HUMAN Insulin-like growth factor-binding protein 5 OS=Homo sapiens  
GN=IGFBP5 PE=1 SV=1

MVLLTAVLLLLAAYAGPAQSLGSFVHCEPCDEKALSMCPPSPLGCELVKEPGGCCMTCA  
LAEGQSCGVYTERCAQGLRCLPRQDEEKPLHALLHGRGVCLNEKSYREQVKIERDSREHE  
EPTTSEMAEETYSPIFRPKHTRISELKAEAVKKDRRKLQSKFVGGAENTAHPRIISA  
PEMRQESEQGPCRRHMEASLQELKASPRMVPRAYLPNCDRKGIFYKRKQCKPSRGRKRG  
CWCVDKYGMKLPMEYVDGDFQCHTFDSSNVE

>sp|Q9NZ38|IDAS1\_HUMAN Uncharacterized protein IDI2-AS1 OS=Homo sapiens GN=IDI2-AS1 PE=2  
SV=1

MAFPGQSDTKMQWPEVPALPLLSSLCMAMVRKSSALGKEVGRRSEGNGDAGGPFPAVKFP  
IKDIQFSESGEGTRFLHGARLSPLSRNIKARLLLYVRASPLFYESRITLKKPSNRHEVKR  
NRCNRKTAKQMLMTLTFNELEPTRKYGITEDCTSLNRVLFSANRCLHKSLYKKDCFKAA  
PFSMF SFR

>sp|075874|IDHC\_HUMAN Isocitrate dehydrogenase [NADP] cytoplasmic OS=Homo sapiens GN=IDH1  
PE=1 SV=2

MSKKISGGSVEMQGD EMTRIIWELIKEKLIFPYVELDLHSYDLGIENRDATNDQVTKDA  
AEAIAKKHNVGVKCATITPDEKRVEEFKLQMWKSPNGTIRNILGGTVFREAIICKNIPRL  
VSGWVKPIIIGRHAYGDQYRATDFVVPGPQVEITYTPSDGTQKVTYLVHNFEEGGGVAM  
GMYNQDKSIEDFAHSSFMALSKGWPLYLSTKNTILKKYDGRFKDIFQEIDYKQYKSQFE  
AQKIWEHRLIDDMVAQAMKSEGFIWACKNYDGDVQSDSVAQGYGSLGMMTSVLVCPDG  
KTVEAAEAHGTVTRHYRMYQKGQETSTNPIASIFAWTRGLAHRAKLDNNKELAFFANALE  
EVSIIETIEAGFMTKDLAACIKGLPNVQRSDYLNTEFMDKLG ENLKIKLAQAKL

>sp|P48735|IDHP\_HUMAN Isocitrate dehydrogenase [NADP], mitochondrial OS=Homo sapiens  
GN=IDH2 PE=1 SV=2

MAGYLRVVRSLCRASGSRPAWAPAALTAPTSQEQPRRHYADKRIKVAKPVVEMDGDEMTR  
IIWQFIKEKLILPHVDIQLKYFDLGLPNRDQTDDQVTIDSALATQKYSVAVKCATITPDE  
ARVEEFKLKKMWKSPNGTIRNILGGTVFREPIICKNIPRLVPGWTKPITIGRHAHGDQYK  
ATDFVADRAGTFKMVFTPKDGSVKWEVYNFPAGGVGMGMYN TDESISGFAHSCFQYAI

QKKWPLYMSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWEHRLIDDMVAQVLKS  
SGGFVWACKNYDGDVQSDILAQGFGLMTSVLVC PDGKTIEAEEAHGTVTRHYREHQK  
GRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTKDLAGCIH  
GLSNVKLNEHFLNTTDFLDTIKSNLDRALGRQ

>sp|Q9BXS1|IDI2\_HUMAN Isopentenyl-diphosphate delta-isomerase 2 OS=Homo sapiens GN=IDI2  
PE=1 SV=1

MSDINLDWVDRRLQRLEMLIVVDENDKVIGADTKRNCHLNENIEKGLLHRAFSVVLFN  
TKNRILIQQRSDTKVTFPGYFTDSCSSHPLYNPAELEEKDAIGVRRAAQRRLQAELGIPG  
EQISPEDIVFMTIYHHKAKSDRIWGEHEICYLLLRKNVTLPNDPSETKSILYLSQEELW  
ELLEREARGEVKVTPWLRTIAERFLYRWPHLDDVTPFVELHKIHRV

>sp|Q53G44|IF44L\_HUMAN Interferon-induced protein 44-like OS=Homo sapiens GN=IFI44L PE=2  
SV=3

MEVTTRLTWNDENHLRKLLGNVSLSLYKSSVHGGSIEDMVERCSRQGCTITMAYIDYNM  
IVAFMLGNYINLHESSTEPNDSLWFSLQKKNDTTEIETLLNTAPKIIDEQLVCRLSKTD  
IFIICRDNKIYLDKMITRNLKRFYGHRQYLECEVFRVEGIKDNLDDIKRIIKAREHRNR  
LLADIRDYRPYADLVSEIRILLVGPVSGKSSFFNSVKSI FHGHVTGQAVVGS DITSITE  
RYRIYSVKDGKNGKSLPFMLCDTMGLDGAEGAGLCMDDIPHILKGCMPPDRYQFNSRKPIT  
PEHSTFITSPSLKDRIHCVAYVLDINSIDNLYSKMLAKVKQVHKEVLNCGIAYVALLTKV  
DDCSEVLQDNFLNMSRSMTSQSRVMNVHKMLGIPISNIMVGNYASDLELDPMKDILILS  
ALRQMLRAADDFLEDLPLEETGAIERALQPCI

>sp|P38919|IF4A3\_HUMAN Eukaryotic initiation factor 4A-III OS=Homo sapiens GN=EIF4A3 PE=1  
SV=4

MATTATMATSGSARKRLLKEEDMTKVEFETSEEVDVTPTFDTMGLREDLLRGIYAYGF EK  
PSAIQQRAIKQIIKGRDVIAQSQSGTGKTATFSISVLQCLDIQVRETQALILAPTRELAV  
QIQKGLLALGDYMNVCACHIGGTNVGEDIRKLDYGQHV VAGTPGRVFD MIRRRSLRTRA  
IKMLVLDEADEMLNKGFKEQIYDVYRYLPATQVVLISATLPHEILEMTNKFMTDPIRIL  
VKRDELTLEGIKQFFVAVEREEWKFDLTCLDYDTLTITQAVIFCNTKRKVDWLTEKMREA  
NFTVSSMHGDMPPKQKRESIMKEFRSGASRVLISTDVWARGLDVPQVSLIINYDLPNNREL  
YIHRIGRSGRYGRKGVAINFVKNDDIRILRDIEQYYSTQIDEMPMNVADLI

>sp|P01562|IFNA1\_HUMAN Interferon alpha-1/13 OS=Homo sapiens GN=IFNA1 PE=1 SV=1

MASPFALLMVLVLSCKSSCSLGC DLPETHSLDNRR TLMLLAQMSRISPSSCLMDRHDFG  
FPQEEFDGNQFQKAPISVLHELIQQIFNLFTTKDSSAAWDELLDKFCTELYQQLNDLE  
ACVMQEERVGETPLMNADSI LAVKKYFRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTN  
LQERLRRKE

>sp|P01563|IFNA2\_HUMAN Interferon alpha-2 OS=Homo sapiens GN=IFNA2 PE=1 SV=1

MALTFALLVALLVLSCKSSCSVGC DLPQTHSLGSRRTLMLLAQMRKISLFSCLKDRHDFG  
FPQEEFDGNQFQKAETIPVLHEMIQQIFNLFTTKDSSAAWDETLLDKFYTELYQQLNDLEA  
CVIQGVGTETPLMKEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSTNL  
QESLRSKE

>sp|P05013|IFNA6\_HUMAN Interferon alpha-6 OS=Homo sapiens GN=IFNA6 PE=1 SV=1

MALPFALLMALVLSCKSSCSLDC DLPQTHSLGHRRTMLLAQMRRI SLFSCLKDRHDFR  
FPQEEFDGNQFQKAEISVLHEVIQQTFNLFTTKDSSVAWDERLLDKLYTELYQQLNDLE  
ACVMQEVVVG GTPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSSSRN  
LQERLRRKE

>sp|P32881|IFNA8\_HUMAN Interferon alpha-8 OS=Homo sapiens GN=IFNA8 PE=1 SV=1

MALTFYLLVALVLSYKSFSSLGCDLPQTHSLGNRRALILLAQMRRISPFSCCLKDRHDFE  
FPQEEFDDKQFQKAQISVLHEMIQQTFNLFSTKDSAAALDETLLEDFYIELDQQLNDLE  
SCVMQEVGVIESPLMYEDSILAVRKYFQRITLYLTEKKYSSCAWEVVRAEIMRSFSL SIN  
LQKRLKSKE

>sp|Q5T764|IFT1B\_HUMAN Interferon-induced protein with tetratricopeptide repeats 1B  
OS=Homo sapiens GN=IFIT1B PE=1 SV=1

MSEESDGKLIEDSLIQLRCHFTWKLLIEAPEIPDLENRIWEEIQFLDTKYNVGIHNLAY  
VKHLKGQNEEALVSLKKAEDLIQKEHANQADIRSLVTWGNFAWVYYHMGRLAEAQTYLDK  
VENTCKKFANPSRYRMECEVDCEEGWALAKCGGKNYERAKTCFEKALEGNPENPEFNTG  
YAITVYRLDKFNTASGRNKAFLSHVLKRAVRLNPDDVYIRVLLALKLQDEGQEAEGEKYI  
EEALTSISSQAYVFQYAAKFYRRKGSVDKALELLKMALETTPTS AFLHHQMGLCYRAQMI  
QIKEATNWQPRGQDRETVDRLVQLAICKFEKTI MLKRTFEMAYVDLAETYAEIGHHRKAE  
EHFQKGLRMKIFEDQLKQEIHYHYGRFQEHHGKSQDKAITHYLGKGLIEKMSHSREKLLN  
ALEKLAKRCIHQNVRVVESVSLGLIHKLG EVSDALLCYERALRLAADLNPIF

>sp|P25963|IKBA\_HUMAN NF-kappa-B inhibitor alpha OS=Homo sapiens GN=NFKBIA PE=1 SV=1

MFQAAERPQEWAMEGPRDGLKKERLLDDRHD SGLDSMKDEEYEQMVKELQEIRLEPQEV  
RGSEPWKQQLTEDGDSFLHLAI IHEEKAL TMEVIRQVKGD LAFLNFQNNLQQTPLHLAVI  
TNQPEIAEALLGAGCDPELRDFRGNTPLHLACEQGCLASVGVL TQSC TTPHLHSILKATN  
YNGHTCLHLASIHGYLGIVELLVSLGADVNAQEP CNGRTALHLAVDLQNPDLVSLLLKCG  
ADVNRVTYQGYSPLYLTWGRPSTRIQQQLGQLTLENLQMLPESEDEESYDTESEFTEFTE  
DELPYDDCVFGGQRLTL

>sp|P14778|IL1R1\_HUMAN Interleukin-1 receptor type 1 OS=Homo sapiens GN=IL1R1 PE=1 SV=1

MKVLLRLICFIALLISSLEADCKKEREKI ILVSSANEIDVRPCPLNPNEHKG TITWYKD  
DSKTPVSTEQASRIHQHKEKLWFPVAKVEDSGHYVCVVRNSSYCLRIKISAKFVENEPNL  
CYNQAIFKQKLPVAGDGGLVCPYMEFFKNENNELPKLQWYKDC KPLLLDNIHFSGVKDR  
LIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTRPVI VSPANETMEVDL  
GSQIQLICNVTGQLSDIAYWKWNGSV IDEDDPVLGEDYYSVENPANKRRSTLITVLNISE  
IESRFYKHPFTCFAKNTHGIDAAYIQLIYPVTNFQKHMIGICVTLTVIIVCSVFIYKIFK  
IDIVLWYRDSCYDFLP IKASDGKTYDAYILYPKTVGEGSTDCDIFVFKVLPEVLEKQCG  
YKLFIIYGRDDYVGEDIVEVINENVKKSRLIIILVRETSGFSWLGSSEEQIAMYNALVQ  
DGIKVVLLELEKIQDYEKMPESIKFIKQKHGAIRWSGDF TQGPQSAKTRFWKNVRYHMPV  
QRRSPSSKHQLLSPATKEKLQREAHVPLG

>sp|O00505|IMA4\_HUMAN Importin subunit alpha-4 OS=Homo sapiens GN=KPNA3 PE=1 SV=2

MAENPSLENHRIKSFKNKGRDVETMRRHRNEVTVELRKNKRDEHLLKKRNPQEE SLEDS  
DVDADFKAQNV TLEAILQNATSDNPVVQLSAVQAARKLLSSDRNPPIDDLIKSGILPILV  
KCLERDDNP SLQFEAAWALTNIASG TSAQTQAVVQSNAPLFLRLLRSPHQNVCEQAVWA  
LGNIIGDGPQCRDYVISLGVPKLLSFISPSIPITFLRNVTWVIVNLCRNKDPPPPMETV  
QEILPALCVLIYHTDINILVDTVWALS YLTDGGNEQIQMVIDSGVVPFLVPLL SHQEVKV  
QTAALRAVGNI VTGTDEQTQVVLNCDVLSHFPNLLSHPKEKINKEAVWFLSNITAGNQQQ  
VQAVIDAGLIPMI IHQLAKGDFGTQKEAAWAISNL TISGRKDQVEYLVQQNVIPPCNLL  
SVKDSQVVQVVL DGLKNILIMAGDEASTIAEII EECGGLEKIEVLQQHENEDIYKLAFEI  
IDQYFSGDDIDEDPCLIP EATQGGTYNFDPTANLQTKEFNF

>sp|Q14974|IMB1\_HUMAN Importin subunit beta-1 OS=Homo sapiens GN=KPNB1 PE=1 SV=2

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQ  
IKNSLTSKDPDIKAQYQQRWLAI DANARREVKNYVLQTLGTETYRPSSASQCVAGIACAE  
IPVNQWPELIPQLVANVTNPNSTEHMKESTLEAIGYICQDIDPEQLQDKSNEILTAIQG  
MRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEATQCPDTRVRVAALQN  
LVKIMSLYYQMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA  
AEQGRPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPCAAAGVCLMLLATCCE  
DDIVPHVLPFIKEHIKPNDRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDP  
SVVVRDTAAWTVGRICELLPEAAINDVYLAPLLQCLIEGLSAEPRVASNVCWAFSSLAEA  
AYEAADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLRSSAYESLMEIVKNSA  
KDCYPAVQKTTLIMERLQQVLQMESHISTSDRIQFNDLQSLLCATLQNVLRKVQHQDA  
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFGLIGLKN  
YAEYQVCLAAGVLGDLCLALQSNIPFCDEVMQLLENLGNENVHRSVKPQILSVFGDI  
ALAIGGEFKKYLEVVLNTLQQASQAQVDKSDYDMVDYLNELRESCLEAYTGIVQGLKGDQ  
ENVHPDVMLVQPRVEFILSFIDHIA GDEHDTG VVACAAGLIGDLCTAFGKDV LKLV EAR  
PMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

>sp|P12268|IMDH2\_HUMAN Inosine-5'-monophosphate dehydrogenase 2 OS=Homo sapiens GN=IMPDH2  
PE=1 SV=2

MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKIT  
LKTPLVSSPMDTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVV  
LSPKDRVRDVFEAKARHGFCGIPITDTGRMGSRVVGIISSRDIDFLKEEEHDCFLEEIMT  
KREDLVVAPAGITLKEANEILQRSKKGKLPVNEDELVAIIARTDLKKNRDYPLASKDA  
KKQLLCGAAIGTHEDDKYRLDLAQAGVDVVLDSSQGNSIFQINMIKIKDKYPNLQVI  
GGNVVTAQAQKNLIDAGVDALRVGMGSGSICITQEV LACGRPQATAVYKVSEYARRFGVP  
VIADGGIQNVGHIAKALALGASTVMMGSLAATTEAPGEYFFSDGIRLKKYRGMGSLDAM  
DKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPYLIAGIQHSCQDIGAKSLTQVR  
AMMYSGELKF EKRTSSAQVEGGVHSLHSYEKRLF

>sp|O60812|HNRCl\_HUMAN Heterogeneous nuclear ribonucleoprotein C-like 1 OS=Homo sapiens  
GN=HNRNPCL1 PE=1 SV=1

MASVNTNKMDPHSMNSRVFIGNLNLVVKKSDVEAIFSKYKGIAGCSVHKGF AFVQYDKE  
KNARA AVAGEDGRMIASQVVDINLAAEPKVN RGNAGVKRSAAEMYGSSFDLDYGFQRDYY  
DGMYSFPARVPPPPPIALAVVPSKRQRLSGNTSRRGKSGFNSKSGKRGSSKSGKLKDDL  
QAIKQELTQIKQKVSLL ENLEKIEKEQSKQEVEVKNAKSEEEQSSSMKKDETHVKMES  
EGGAEDSAEEGDPLDDVDNEDQGDDQLELIKDEKEAEEGEDDRDSTNGQDDS

>sp|P14866|HNRPL\_HUMAN Heterogeneous nuclear ribonucleoprotein L OS=Homo sapiens  
GN=HNRNPL PE=1 SV=2

MSRRLLPRAEKRRRRLERQQRPDEQRRRSGAMVKMAAAGGGGGGGRYYGGGSEGGRAPKR  
LKTDNAGDQHGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIRGLIDGVVEADLVE  
ALQEFGPISYVVVMPKKRQALVEFEDVLGACNAVNYAADNQIYIAGHPAFVNYSTSQKIS  
RPGSDDSRSVNSVLLFTILNPIYSITTDVLYTICNCPGPVQRIVIFRKNVQAMVEFDS  
VQSAQRAKASLNGADIYSGCCTLKIEYAKPTRLNVFKNDQDTWDYTNP NLSGQGDPGSNP  
NKRQRQPPLLGDHPAEYGGPHGGYHSHYHDEGYGPPPPHYEGRRMGPPVGGHRRGPSRYG  
PQYGHPPPPPPPEYGPHADSPVLMVYGLDQSKMNCDRVFNVFCLYGNVEKV KFMKSKPG  
AAMVEMADGYAVDRAITHLNNNFMFGQKLNVCVSKQPAIMPGQSYGLEDGSCSYKDFSES  
RNNRFSTPEQAAKNRIQHPSNVLHFFNAPLEVTEENFFEICDELGVKRPSSVKVFSKGSE

RSSSGLLEWESKSDALETLGFLNHQMKNPNGPYPYTLKLCFSTAQHAS

>sp|O60506|HNRPQ\_HUMAN Heterogeneous nuclear ribonucleoprotein Q OS=Homo sapiens  
GN=SYNCRIP PE=1 SV=2

MATEHVNGNGTEEPMDTTS AVIHSENFQTL LDAGLPQKVAEKLDEIYVAGLVAHSDLDER  
AIEALKEFNEDGALAVLQQFKDSL SHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPD  
EAKIKALLERTGYTL DVTTGQRKYGGPPDSVYSGQQPSVGTEIFVGKIPRDLFEDELVP  
LFEKAGPIWDLRLMMDPLTGLNRGYAFVTFCTKEAAQEAVKLYNNHEIRSGKHIGVCISV  
ANNRLFVGSIPKSKTKEQILEEFSKVTEGLTDVILYHQPD DKKNRGFCFLEYEDHKTA  
QARRRLMSGKVKVGNGVGTVEWADPIEDPDPEVMAKVKLVFVRNLANTVTEEILEKAFSQ  
FGKLERVKKLDYAFIHFDERDGAVKAMEEMNGKDLEGENIEIVFAKPPDQKRKERKAQR  
QAAKNQMYDDYYYYGPPHMPPTGRGRGGRGGYGYPPDYGYEDYDYGYDYHNYRGG  
YEDPYGYEDFQVGARGRGRGARGAAPS SRGGAAPRGRAGYSQRGGPGSARGVRGARG  
GAQQQRGRGVRGARGGRGNVGGKRKADGYNQPD SKRRQTNNQNWGSQPIAQQPLQGGDH  
SGNYGYKSENQEFYQDTFGQQWK

>sp|Q9UJC3|HOOK1\_HUMAN Protein Hook homolog 1 OS=Homo sapiens GN=HOOK1 PE=1 SV=2

MEETQPPPQPKLPLCDSLMIWLQTFNTASPCQDVKQLTSGVAMAQVLHQIDA AWFNESWL  
SRIKEDVGDNRWIKASNVKKVLQGIMSYHEFLGQQISEALIPDLNQITECDPVELGRL  
LQLILGCAINCEKKQEHINIMTLEESVQHVVMTAIQELMSKEILSSPPNDAVGELEQQL  
KRALLEEQEALAEKEELRQRCEELDMQVTTLQDEKNSLVSENNMNEKLDQLDGSFDDPN  
TVVAKKYFHAQLQLEQLQEENFRLEAAKDDYRVHCEELEKQLIEFQHRNDELTS LAEETR  
ALKDEIDVLRATSDKANKLESTVEIYRQKLQDLNDRKQVKTLQETNMMYMHNTVSLEEE  
LKKANAARTQLETYKRQVQDLHVKLSSSESKRADTLAFEMKRLEEKHEALLKEKERLIEQR  
DTLKETNEELRCSQVQQDHLNQTDASATKSYENLAAEIMPVEYREVFIRLQHENKMLRLQ  
QEGSENERIEELQEQLQKHKRKMNELETEQRLSKERIRELQQQIEDLQKSLQE QGSKSEG  
ESSSKLKQKLEAHMEKLTEVHEELQKKQELIEDLQPDINQNVQKINELEAALQKKDEDMK  
AMEERYKMYLEKARNVIKTLDPKLPASAEIMLLRKQLAEKERRIEILESECKVAKFRDY  
EEKLIVSAWYNKSLAFQKLG MESRLVSGGACSDTGACTPARSFLAQQRHITNTRNLSV  
KVPATTS D

>sp|Q92902|HPS1\_HUMAN Hermansky-Pudlak syndrome 1 protein OS=Homo sapiens GN=HPS1 PE=1  
SV=2

MKCVLVATEGAEVLFYWDQEFEE SLRLKFGQSENEEEELPALEDQLSTLLAPV I ISSMT  
MLEKLSDTYTCFSTENGFLYVLH LFGECFLI AINGDHTESEGLRRKLYVLKYLFEVHF  
GLVTVDGHLIRKELRPPDLAQRVQLWEHFQSL LWTYSRLREQEQCF AVEALERLIHPQLC  
ELCIEALERHVIQAVNTSPERGEEALHAFLLVH SKLLAFYSSHSASSLRPADLLALILL  
VQDLYPSESTAEDDIQSPRRARSSQNIPVQQA WSPHSTGPTGGSSAETETDSFSLPEEY  
FTPAPSPGDQSSGSTIWLEGGTPMDALQIAEDTLQTLVPHCPVPSGPRRIFLDANVKES  
YCPLVPHTMYCLPLWQGINLVLLTRSPSAPLALVLSQLMDGFSMLEKKLKEGPEPGASLR  
SQPLVGDLRQRMDKFVKNRGAQEIQSTWLEFKAKAFSKSEPGSSWELLQACGKLKRQLCA  
IYRLNFLTTAPSRGGPHLPQHLQDQVQRLMREKLT DWKDFLLVKSRRNITMVSYLEDFPG  
LVHFIYVDRTTGQMVAPSLNCSQKTSSELGKGPLAA FVKTKVWSLIQLARRYLQKGYTTL  
LFQEGDFYCSYFLWFENDMGYKLMIEVPVLSDDSVPIGMLGGDYRKLLRYSK NRPTE  
AVRCYELLALHLSVIPTDLLVQQAGQLARRLWEASRIPLL

>sp|Q6P1K1|HRG1\_HUMAN Heme transporter HRG1 OS=Homo sapiens GN=SLC48A1 PE=1 SV=1

MAPSRLQLGLRAAYSGISSVAGFSIFLVWTVVYRQPGTAAMGGLAGVLALWVLVTHV MYM

QDYWRTWLKGLRGFFVGVLFSAVSIAAFCTFLVLAITRHQSLTDPTSYYLSSVWSFISF  
KWAFLLSLYAHRYRADFADISILSDF

>sp|Q9HDD0|HRSL1\_HUMAN Phospholipid-metabolizing enzyme A-C1 OS=Homo sapiens GN=HRASLS  
PE=2 SV=1

MAFNDCFSNLNYPGNPCPGDLIEVFRPGYQHWALYLG DG YVINIAPVDGIPASFTSAKSVF  
SSKALVKMQLLKDVVGN DTYRINNKYDETYPLPVEEIIKRSEFVIGQEVAYNLLVNNCE  
HFVTLLRYGEGVSEQANRAISTVEFVTAAVGVFSFLGLFPKGQRAKYY

>sp|Q9NWW9|HRSL2\_HUMAN HRAS-like suppressor 2 OS=Homo sapiens GN=HRASLS2 PE=1 SV=1

MALARPRPRLGDLIEISRFGYAHWAIYVG DG YVHLAPASEIAGAGAASVLSALTNKAIV  
KKELLSVVAGGDNYRVNNKHDDRYTLP SNKIVKRAEELVGQELPYSLTSDNCEHFVNHL  
RYGVSRSDQVTGAVTTVGVAAGLLAAASLVGILLARSKRERQ

>sp|Q96KN8|HRSL5\_HUMAN Ca(2+)-independent N-acyltransferase OS=Homo sapiens GN=HRASLS5  
PE=1 SV=2

MGLSPGAEGEYALRLPRIPPPLPKPASRTASTGPKDQPPALRRSAVPHSGLNSISPLELE  
ESVGFAALVQLPAKQPPPGTLEQGRSIQQGEKAVVSLETPSQKADWSSIPK PENEGKLI  
KQAAEGKPRPRPGDLIEIFRIGYEHWAIYVEDDCV VHLAPPSEEFVGSITSIFS NRAVV  
KYSRLEDVLHGCSWKVNKLDGTYLPLPVDKIIQRTKKMVNKIVQYSLIEGNCEHFVNGL  
RYGVPRSQQVEHALMEGAKAAGAVISAVVDSIKPKPITA

>sp|Q96MM6|HS12B\_HUMAN Heat shock 70 kDa protein 12B OS=Homo sapiens GN=HSPA12B PE=1 SV=2

MLAVPEMGLQGLYIGSSPERSPVSPPGSPRTQESCGIAPLTPSQSPKPEVRAPQQASFS  
VVVAIDFGTTSSGYAFSASDPEAIHMMRKWEGGDPGVAHQKTPTCLLLTPEGAFHSFGY  
TARDYYHDLDP EEAR DWLYFEKFKMKIHSATDLTKTQLEAVNGKTM PALEVFAHALRFF  
REHALQELREQSPSLPEKDTV RWVLTVP AIWKQPAKQFMREAA YLAGLV SRENAEQLLIA  
LEPEAASVYCRKLRLHQLLDLSGRAPGGRLGERRSIDSSFRQAREQLRRSRHSRTFLVE  
SGVGELWAE MQAGDRYV VADCGGTVDLTVHQLEQPHGTLKELYKASGGPYGAVGVDLAF  
EQLLCRIFGEDFIATFKRQRPAAWVDLTIAFEARKRTAGPHRAGALNISLPFSFIDFYRK  
QRGHNVETALRRSSVNFVKWSSQGMLRMSCEAMNELFQPTVSGIIQHIEALLARPEVQGV  
KLLFLVGGFAESA VLQH AVQAALGARGLRVVVPHDVG LTI LKGAVLFGQAPGVVRRRSP  
LTYGVGV LNR FVPGRHPPEKLLVRDGRRWCTD VFERFVA AEQSVALGEEVRRSYCPARPG  
QRRVLINLYCCAEDARFITDPGVRKCGALSLELEPADCGQDTAGAPPGRREIRAAMQFG  
DTEIKVTAVDVSTNRSVRASIDFLSN

>sp|Q58FG0|HS905\_HUMAN Putative heat shock protein HSP 90-alpha A5 OS=Homo sapiens  
GN=HSP90AA5P PE=2 SV=1

MGFHHVGQAGLELLTSGHPALERRPEYLEERRIKEIVKKHSQFIGYPITLFVEKKRNKQV  
SDAEAEKKEDKRRKKKESNDKPEIEDVGSDEEEKKDADKKKKKSKEKYIDQELNKTPI  
WTRNPDAITNEEYGEFHQSLTNNWEDHLAVKHFSVEGQLEELKDSRRVMKANQKHIYYIT  
GETKDQVANS AFVECLQKHGLEVIYMIELIDKYCVQQLKELESKTVVSVAKEGLELPEDE  
EEKKKQEEKKT FENLCKIMKDMLEKKVKV VVSNCMEDPQRHTNKIYRMIKLG LGVDEY  
DPTANDINAAITKEMPLRGDDTSRMEEVGGSG

>sp|P07900|HS90A\_HUMAN Heat shock protein HSP 90-alpha OS=Homo sapiens GN=HSP90AA1 PE=1  
SV=5

MP EETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIR  
YESLTDPSKLD SGKELHINLIPNKQDRTLTI VDTGIGMTKADLINNLGTIAKSGTKAFME  
ALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGPEM



GRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFEKERDKEVSDDEAEKEED  
KEEEKEKEEKESEDKPEIEDVGSDEEEKKDGDKKKKKKIKEYIDQEELNKTPIWTRN  
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNN  
IKLYVRRVFMIDNCEELIPEYLNFRGVVDSDELPLNISREMLQQSKILKVIRKNLVKKC  
LELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVS LKDY  
CTRMKENQKHIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPID EYCVQQLKEFEGKT  
LVSVTKEGLELPEDEEEKKKQEEKTKFENLCKIMKDILEKKVEKVVS N RLV TSPCCIV  
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVK  
DLVILLYETALLSSGFSLEDPQTHANRIYRMIKLG LGIDEDDPTADD TSAAVTEEM PPLE  
GDDDTSRMEEVD

>sp|Q8IWL3|HSC20\_HUMAN Iron-sulfur cluster co-chaperone protein HscB, mitochondrial  
OS=Homo sapiens GN=HSCB PE=1 SV=3

MWRGRAGALLRVWGFWPTGVPRRRPLSCDAASQAGSNYPRCWNCGGPWGPGREDRFFCPQ  
CRALQAPDPTRDYFSLMDCNRSFRVDTAKLQHRYQQLQRLVHPDFFSQRSQTEKDFSEKH  
STLVNDAYKTLLAPLSRGLYLLKLHGIEIPERTDYEMDRQFLIEIMEINEKLAEAESEAA  
MKEIESIVKAKQKEFTDNVSSAFEQDDFEEAKEILTKMRYFSNIEEKIKLKKIPL

>sp|Q9BQS6|HSPB9\_HUMAN Heat shock protein beta-9 OS=Homo sapiens GN=HSPB9 PE=1 SV=1

MQRVGNTFSNESRVASRCPVGLAERNRVATMPVRLLRDSPAAQEDNDHARDGFQMKLDA  
HGFAPEELVVQVDGQWLMVTGQQQLDVRDPERVSYRMSQKVHRKMLPSNLSPTAMTCCLT  
PSGQLWVRGQCVALALPEAQTGPSRPLGSLGSKASNLTR

>sp|Q9GZZ0|HDX1\_HUMAN Homeobox protein Hox-D1 OS=Homo sapiens GN=HOXD1 PE=2 SV=1

MSSYLEYVSCSSSGVGGDVLSLAPKFCRSDARPVALQPAFPLGNGDGAFVSCPLAAAR  
PSPSPAAPARPSVPPPAAPQYAQCTLEGAYEPGAAPAAAAGGADYGLGSGPAYDFPGV  
LGRAADDGGSHVHYATSAVFSGGGSFLLSGQVDYAAFGEPPFPACLKASADGHPGAFQT  
ASPAPGTYPKSVSPASGLPAAFSTFEWMKVKNASKKGKLA EYGAASPSSAIRTNFSTKQ  
LTELEKEFHFNKYLTRARRIEIANCLHLNDTQVKIWFQNRMRMKQKKREREGLLATAIPVA  
PLQLPLSGTTPTKFIKNPGSPSQSQEPS

>sp|Q9H2X8|I27L2\_HUMAN Interferon alpha-inducible protein 27-like protein 2 OS=Homo  
sapiens GN=IFI27L2 PE=2 SV=1

MMKRAAAA AVGGALAVGAVPVVLSAMGFTGAGIAASSIAAKMMSAAAIANGGGVSAGSLV  
ATLQSVGAAGLSTSSNILLASVGSVLGACLGNSPSSSLPAEPEAKEDEARENVPQGEPPK  
PPLKSEKHEE

>sp|P47813|IF1AX\_HUMAN Eukaryotic translation initiation factor 1A, X-chromosomal OS=Homo  
sapiens GN=EIF1AX PE=1 SV=2

MPKNKGKGGKNRRRGKNENESEKREL VFKEDGQEYAQVIKMLGNGRLEAMCFDGVKRLCH  
IRGKLRKKVWINTSDIILVGLRDYQDNKADVILKYNAD EARS LKAYGELPEHAKINETDT  
FGPGDDDEIQFDDIGDDDEDIDDI

>sp|Q9NZI8|IF2B1\_HUMAN Insulin-like growth factor 2 mRNA-binding protein 1 OS=Homo sapiens  
GN=IGF2BP1 PE=1 SV=2

MNKLYIGNL NESVTPADLEKVFAEHKISYSGQFLVKSGYAFVDCPDEHWAMKAIETFS GK  
VELQGKRLEIEHSVPKKQRSRKIQIRNIPPQLRWEVLDSLLAQYGT VENCEQVNT ESETA  
VVNV TYSNREQTRQAIMKLNQHLENHALKVSYPDEQIAQGPENRRRGFGSRGQPRQG  
SPVAAGAPAKQQQVDIPLRLLVPTQYVGAIIGKEGATIRNITKQTQSKIDVHRKENAGAA  
EK AISVHSTPEGCSSACKMILEIMHKEAKDTKTAD E VPLKILAHNNFVGRLIGKEGRNLK

KVEQDTETKITISSLQDLTLNPERTITVKGAIENCCRAEQEIMKKVREAYENDVAAMSL  
QSHLIPGLNLAAGLFPASSSAVPPPPSSVTGAAPYSSFMQAPQEMVQVFIPAQAVGAI  
IGKKGQHIKQLSRFASASIKIAPPETPDSKVRMVIITGPPEAQFKAQGRIYGKLKEENFF  
GPKEEVKLETHIRVPASAAGRVIGKGGKTVNELQNLTAAEVVVPRDQTPDENDQVIVKII  
GHFYASQMAQRKIRDILAQVKQHQKQGSNQAQARRK

>sp|000425|IF2B3\_HUMAN Insulin-like growth factor 2 mRNA-binding protein 3 OS=Homo sapiens  
GN=IGF2BP3 PE=1 SV=2

MNKLYIGNLSENAAPSDLESIFKDAKIPVSGPFLVKTGYAFVDCPDESWALKAI EALSGK  
IELHGKPIEVEHSVPKRQRIRKLQIRNIPPHLQWEVLDSLLVQYGVVESCEQVNTDSETA  
VVNVTYSSKDQARQALDKLNGFQLENFTLVAYIPDEMAAQNP LQQPRGRRGLGQRGSS  
RQSGSPGSVSKQKPCDPLRLLVPTQFVGAIIGKEGATIRNITKQTQSKIDVHRKENAGAA  
EKSITILSTPEGTSAACKSILEIMHKEAQDIKFTEEIPLKILAHNNFVGRLIGKEGRNLK  
KIEQDTDKITISPLQELTLNPERTITVKGNVETCAKAE EIMKKIRESYENDIASMNL  
QAH LIPGLNLNALGLFPPTSGMPPTSGPPSAMPYPQFEQSETETVHLFIPALSVGAI  
IGKKGQHIKQLSRFAGASIKIAPAEAPDAKVRMVIITGPPEAQFKAQGRIYGKIKEENFV  
SPKEEVKLEAHIRVPSFAAGRVIGKGGKTVNELQNLSSAEVVVPRDQTPDENDQVVVKIT  
GHFYACQVAQRKIQEILTQVKQHQKQKALQSGPPQSRRK

>sp|Q2VIR3|IF2GL\_HUMAN Putative eukaryotic translation initiation factor 2 subunit 3-like  
protein OS=Homo sapiens GN=EIF2S3L PE=5 SV=2

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKA  
ISGVHTVRFKNELERNITIKLGYANAKIYQLDDPSCPRPECYRSCGSSMPDEFPTDIPGT  
KGNFRLVRHVSFVDCPGHDILMATMLNGAAVMDAALLLIAGNESCPQPQTSEHLAAIEIM  
KLKHILILQNKIDLVKERQAKEQYEQILAFVQGTVAEGAPIIPISAQLKYNIEVVCEYIV  
KKIPVPPRDF TSEPRLIVIRSFVNKPGCEVDDLKGGVAGGSILKGV LKVGQETEV RPGI  
VSKDSEGLMKCKSIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQILGA  
VGALPEIFTELEISYFLLRRL LGVRTEGDKKA AKVQKLSKNEVLMVNIGSLSTGGRVSAV  
KADLGKIVLTNPVCTEVGEKIALSRRVEKHWRLIGWGQIRRGVTIKPTVDDD

>sp|P41091|IF2G\_HUMAN Eukaryotic translation initiation factor 2 subunit 3 OS=Homo sapiens  
GN=EIF2S3 PE=1 SV=3

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKA  
ISGVHTVRFKNELERNITIKLGYANAKIYKLDDPSCPRPECYRSCGSSPTDEFPTDIPGT  
KGNFKLVRHVSFVDCPGHDILMATMLNGAAVMDAALLLIAGNESCPQPQTSEHLAAIEIM  
KLKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPISAQLKYNIEVVCEYIV  
KKIPVPPRDF TSEPRLIVIRSFVNKPGCEVDDLKGGVAGGSILKGV LKVGQEI EVRPGI  
VSKDSEGLMKCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGA  
VGALPEIFTELEISYFLLRRL LGVRTEGDKKA AKVQKLSKNEVLMVNIGSLSTGGRVSAV  
KADLGKIVLTNPVCTEVGEKIALSRRVEKHWRLIGWGQIRRGVTIKPTVDDD

>sp|P46199|IF2M\_HUMAN Translation initiation factor IF-2, mitochondrial OS=Homo sapiens  
GN=MTIF2 PE=1 SV=2

MNQKLLKLENLLRFHTIYRQLHSLCQRRALRQWRHGFSSAYPVWTAQLCAWPWPTDVL TG  
AALSQYRLLVTKKEEGPWKSQLSSTKSKKVVEVWIGMTIEELARAMEKNTDYVYEALLNT  
DIDIDSLEADSHLDEVWIK E VITKAGMKLKW SKLKQDKVRKNKDAVRRPQADPALLTPRS  
PVVTIMGHVDHGKTTLLDKFRKTQVA AVETGGITQHIGAFLVSLPSGEKITFLDTPGHAA  
FSAMRARGAQVTDIVVLVAADDGVMKQTVESI QHAKDAQVPIILAVNKCDKAEADPEKV

KKELLAYDVVCEGYGGDVQAVPVSAITGDNLMALAEATVALAEMLELKADPNPVEGTVI  
ESFTDKGRGLVTTAI IQRGTLRKGSVLVAGKCWAKVRLMFDENGKTIDEAYPSMPVGITG  
WRDLPSAGEEILEVESEPRAREVVDWRKYEQEKEKGQEDLKIIEEKRKEHKEAHQKAREK  
YGHLLWKKRSILRFLERKEQIPLKPKERERDSNVLSV I IKGDDVGSVEAILNI IDTYDA  
SHECELELVHFGVGDVSANDVNLAETFDGVIYGFNVNAGNVIQQSAAKKGVKIKLHKI IY  
RLVEDLQEELSSRLPCAVEEHPVGEASILATFSVTEGKKKVPVAGCRVQKQLEKQKKFK  
LTRNGHVIWKGSLTSLKHHKDDISIVKTGMDCGLSLDEDNMEFQVGDRIVCYEEKQIQAK  
TSWDPGF

>sp|Q96NU7|HUTI\_HUMAN Probable imidazolonepropionase OS=Homo sapiens GN=AMDHD1 PE=1 SV=2  
MASGHSLLLENAQQVVLVCARGERFLARDALRSLAVLEGASLVVGKDGFIKAIGPADVIQ  
RQFSGETFEEI IDCSGKCILPGLVDAHTHPVWAGERVHEFAMKLAGATYMEIHQAGGGIH  
FTVERTRQATEEELFRSLQRLQCMRAGTTLVECKSGYGLDLETELKMLRVIERARREL  
DIGISATYCGAHSVPKGTATEAADDI INNHLPKLKELGRNGEIHVDNIDVFCEKGVFDL  
DSTRILQRGKDIGLQINFHGDELHPMKAELGAELGAQAI SHLEEVSDGIVAMATARC  
SAILPTTAYMLRLKQPRARKMLDEGVIVALGSDFNPNAYCFSPMPVMHLACVNMRMSMP  
EALAAATINAAYALGKSHTHGSLEVKGQGLII INSSRWEHLIYQFGGHHELIEYVIAKG  
KLIYKT

>sp|A0A0A0MS14|HV145\_HUMAN Immunoglobulin heavy variable 1-45 OS=Homo sapiens GN=IGHV1-45 PE=3 SV=1

MDWTWRILFLVAAVTDAYSQMLVQSGAEVKKTGSSVKVSCKASGYTFTYRYLHWVRQAP  
GQALEWMGWITPFGNTNYAQKFQDRVTITRDRSMSTAYMELSSLRSEDTAMYCAR

>sp|A0A0C4DH39|HV158\_HUMAN Immunoglobulin heavy variable 1-58 OS=Homo sapiens GN=IGHV1-58 PE=3 SV=1

MDWIWRILFLVGAATGAHSQMLVQSGPEVKKPGTSVKVSCKASGFTFTSSAVQWVRQAR  
GQRLEWIGWIVVSGNTNYAQKFQERVITITRDMSTSTAYMELSSLRSEDTAVYYCAA

>sp|P01814|HV270\_HUMAN Immunoglobulin heavy variable 2-70 OS=Homo sapiens GN=IGHV2-70 PE=1 SV=2

MDILCSTLLLLTVPSWVLSQVTLRESGPALVKPTQTLTLTCTFSGFSLSTSGMVCVSWIRQ  
PPGKALEWLALIDWDDDKYYSTSLKTRLTISKDTSKNQVLTMTNMDPVDATYYCARI

>sp|P01825|HV459\_HUMAN Immunoglobulin heavy variable 4-59 OS=Homo sapiens GN=IGHV4-59 PE=1 SV=2

MKHLWFFLLLVAAPRWVLSQVQLQESGPGLVKPSSETLSLTCTVSGGSISSYYWSWIRQPP  
GKGLEWIGYIYYSGSTNYNPSLKSRTVISVDTSKNQFSLKSSVTAADTAVYYCAR

>sp|P49639|HXA1\_HUMAN Homeobox protein Hox-A1 OS=Homo sapiens GN=HOXA1 PE=1 SV=2

MDNARMNSFLEYPI LSSGSGTCSARAYPSDHRITTFQSCAVSANSCGGDRFLVGRGVQ  
IGSPHHHHHHHHHPQATYQTSGNLGVSYSHSSCGPSYGSQNFSAFYSPYALNQEADVS  
GGYPQCAPAVYSGNLSSPMVQH HHHHGYAGGAVGSPQYIHHSYQGEHQSLALATYNNSL  
SPLHASHQEACRSPASETSSPAQTFDWMKVKNPPKTGKVGEYGLGQPNVARTNFTTKQ  
LTELEKEFHFNKYLTRARRVEIAASLQLNETQVKIWFQNRRMKQKKREKEGLLPISPATP  
PGNDEKAEESSEKSSSSPCVSPGSSSTDTLTSSH

>sp|P09067|HXB5\_HUMAN Homeobox protein Hox-B5 OS=Homo sapiens GN=HOXB5 PE=1 SV=3

MSSYFVNSFSGRYPNPDYQLLNYGSGSSLGSGSYRDPAAHMTGSYGYNNGMDLSVNRSS  
ASSSHFGAVGESSRAFPAPAQEPRFRQAASSCSLSPESLPCTNGDSHGAKPSASSPSDQ  
ATSASSSANFTEIDEASASSEPEEAASQLSSPSLARAQPEPMATSTAAPEGQTPQIFPWM

RKLHISHDMTGPDGKRARTAYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLSERQIKI  
WFQNRMRKWKKNLKSMSLATAGSAFQP

>sp|P17481|HXB8\_HUMAN Homeobox protein Hox-B8 OS=Homo sapiens GN=HOXB8 PE=2 SV=2  
MSSYFVNSLFSKYKTGESLRPNYYDCGFAQDLGGRPTVVYGPSSGGSFQHPSQIQEFYHG  
PSSLSTAPYQQNPCAVACHGDPGNFYGYDPLQRQSLFGAQDPDLVQYADCKLAAASGLGE  
EAEGSEQSPSPTQLFPWMRPQAAAGRRRGRQTYSRYQTLELEKEFLFNPYLTRKRRIEVS  
HALGLTERQVKIWFQNRMRKWKKENNKDKFPSSKCEQEELEKQKLERAPEAADEGDAQKG  
DKK

>sp|P17482|HXB9\_HUMAN Homeobox protein Hox-B9 OS=Homo sapiens GN=HOXB9 PE=1 SV=2  
MSISGTLSSYYVDSIISHESEDAPPAKFPSGQYASSRQPGHAEHLEFPSCSFQPKAPVFG  
ASWAPLSPHASGSLPSVYHPYIQPGVPPAESRYLRTWLEPAPRGEAAPGQGQAAVKAEP  
LLGAPGELLKQGTPEYSLETSAGREAVLSNQRPGYGDNKICEGSEDKERPDQTNPSANWL  
HARSSRKKRCPTYKYQTLELEKEFLFNMYLTRDRRHEVARLLNLSEKQVKIWFQNRMRKM  
KKMNKEQGKE

>sp|P31277|HDX11\_HUMAN Homeobox protein Hox-D11 OS=Homo sapiens GN=HOXD11 PE=3 SV=3  
MNDFDECGQAASMYLPGCAYYVAPSDFAKPSFSLSQPSSCQMTFPYSSNLAPHVQPVRE  
VAFRDYGLERAKWPYRGGGGGSGAGGSSGGGPGGGGGAGGYAPYAAAAAAAAAAAAA  
EEAAMQRELLPPAGRRPDVLFKAPEPVCAAPGPPHPAGAASNFYSAVGRNGILPQGFDQ  
FYEAAPGPPFAGPQPPPPAPPQPEGAADKGDPRGTGAGGGGSPCTKATPGSEPKGAAEG  
SGGDGEGPPGEAGAEKSSSAVAPQRSRKKRCPTYKYQIRELEREFFFNVIINKEKRLQLS  
RMLNLTDRQVKIWFQNRMRKKEKLNDRDLQYFTGNPLF

>sp|P35453|HDX13\_HUMAN Homeobox protein Hox-D13 OS=Homo sapiens GN=HOXD13 PE=1 SV=3  
MSRAGSWDMDGLRADGGGAGGAPASSSSSSVAAAAAGQCRGFLSAPVFAGTHSGRAAAA  
AAAAAAAAAASGFAYPGTSGTSSSSSSSAVVAARPEAPPAKECPAPTPAAAAAAPP  
SAPALGYGYHFGNGYYSRMSHGVLQGNALKSSPHASLGFPVEKYMDVSGLASSVPA  
NEVPARAKEVSFYQGYTSPYQHVPYIDMVSTFGSGEPRHEAYISMEGYQSWTLANGWNS  
QVYCTKDQPQGSFHWKSSFPGDVALNQPDVCYRRGRKKRVPYTKLQKLENEYAINKF  
INKDKRRRISAATNLSEKQVTIWFQNRMRKDKKIVSKLKDTVS

>sp|Q9BYI3|HYCCI\_HUMAN Hyccin OS=Homo sapiens GN=FAM126A PE=1 SV=2  
MFTSEKGVVEEWLSEFKTLPETSLPNYATNLKDKSSLVSSLYKVIQEPQSELLEPVCHQL  
FEFYRSGEELLQFTLQFLPELIWCYLAASRNHSSGCIEALLGVNLEIVDKQGHT  
KVLSTIPSLSKPSVYHEPSSIGSMALTESALSQHGLSKVVYSGHPQREMLTAQNRFEV  
LTFLLLCYNAALTYMPSVLSQLCQICSRICVCGYPRQHVRYKGISSRIPVSSGMVQM  
LTGIYFAFYNGEWDLAQKALDDIIYRAQLELYPELLVANAIKASLPHGPMKSNKEGTRC  
IQVEITPTSSRISRNAVTSMSIRGHRWKRHGNTLGTQEELMEISEVDEGFYSRAASSTS  
QSGLSNSSHNCSNKPSIGKNHRRSGGSKTGGKEKETTGESCKDHFARKQTQRAQSENLEL  
LSLKRLTLTTSQSLPKPSSHGLAKTAATVFSKSFEQVSGVTVPHNPSSAVGCGAGTDANR  
FSACSLQEEKLIYVSETELPMKHQSGQQRPPSISITLSTD

>sp|P07099|HYEP\_HUMAN Epoxide hydrolase 1 OS=Homo sapiens GN=EPHX1 PE=1 SV=1  
MWLEILLTSVLGFAIYWFISRDKETLPLEDGWWGPGTRSAAREDDSIKPFKETSDEEI  
HDLHQRIDKFRFTPLEDSCFHYGFNSNYLKKVISYWRNEFDWKKQVEILNRYPHFKTKI  
EGLDIHFHIVKPPQLPAGHTPKPLLMVHGWPGSFYEFYKIIPLLTDPKNHGLSDEHVFEV  
ICPSIPGYGFSEASSKGFNSVATARIFYKLMLRLGFQEFYIQGGDWGSLICTNMAQLVP  
SHVKGHLNMLVLSNFSTLTLLLGQRFGRLGLTERDVELLYPVKEKVFYSLMRESGYM

HIQCTKPDTVGSALNDSPVGLAAYILEKFSTWTNTEFRYLEDGGLERKFSLDDLLTNVML  
YWTGTIISSQRFYKENLGQGWMTQKHERMKVYVPTGFSAPFELLHTPEKWVRFKYPKL  
ISYSYMRGGHFAAFEEPELLAQDIRKFLSVLERQ

>sp|Q9Y4L1|HYOU1\_HUMAN Hypoxia up-regulated protein 1 OS=Homo sapiens GN=HYOU1 PE=1 SV=1

MADKVRQRPRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVL  
NKESRRKTPVIVTLKENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARF  
PEHELTFDPQRQTVHFQISSQLQFSPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPVFF  
NQAERRAVLQAARMAGLKVLQLINDNTATALSYGVFRRKDINTTAQNIMFYDMGSGSTVC  
TIVTYQMVKTEAGMQPQLQIRGVGFDRTLGGLEMLRLRERLAGLFNEQRKGQRAKDVR  
ENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADLFERVP  
GPVQQALQSAEMSLDEIEQVILVGGATRVPVRVQEVLLKAVGKEELGKNINADEAAAMGAV  
YQAAALSKAFAKVKPFVVRDAVVYPILVEFTREVEEEPGIHSLKHNRKVLFSRMGPYPQRK  
VITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVGDSFKKYPDYESKGIK  
AHFNLDSESVLSLDRVESVFETLVEDSAEEESTLTKLGNTISSLFGGGTTDAKENGTD  
VQEEESPAEGSKDEPGEQVELKEEAEPVEDGSQPPPEPKGDATPEGEKATEKENGDK  
SEAQKPSEKAEAGPEGVAPAPEGEKKQKPARKRRMVEEIGVELVVLDPDLPEDKLAQSV  
QKLQDLTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREEISGKLSAAS  
WLEDEGVGATTVMLKEKLAELRKLCQGLFFRVEERKKWPERLSALDNLNHSSMFLKGAR  
LIPEMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDR  
EVQYLLNKAFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIIPAGQTEDAEPISEPEKV  
ETGSEPGDTEPLELGGPGAEPKEQSTGQKRPLKNDL

>sp|Q08334|I10R2\_HUMAN Interleukin-10 receptor subunit beta OS=Homo sapiens GN=IL10RB  
PE=1 SV=2

MAWSLGSWLGGCLLVLSALGMVPPPENVRMNSVNFKNILQWESPAFAKGNLTFTAQYLSYR  
IFQDKCMNTTLETCDFSSLSKYGDHTLRVRAEFADEHSDWVNITFCPVDDTIIGPPGMQV  
EVLADSLHMRFLAPKIENEYETWTMKNVYNSWTYNVQYWKNGTDEKFQITPQYDFEVLN  
LEPWTTYCVQVRGFLPDRNKAGEWSEPVCEQTHDETVPSSWMVAVILMASVFMVCLALLG  
CFALLWCVYKKTKYAFSPRNSLPQHLKEFLGHPHNTLLFFSFPLSDENDVFDKLSVIAE  
DSESGKQNPGDSCSLGTPPGQPQS

>sp|Q13261|I15RA\_HUMAN Interleukin-15 receptor subunit alpha OS=Homo sapiens GN=IL15RA  
PE=1 SV=1

MAPRRARGCRTLGLPALLLLLLLRPPATRGITCPPPMSVEHADIWKSYSLSYRERYICN  
SGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPALVHQRPAAPPSTVTTAGVTPQPE  
SLSPSGKEPAASSPSSNNTAATTAIVPGSQLMPSKSPSTGTTEISSHESHGTPSQTTA  
KNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVLLACYLKSRTPLASVE  
MEAMEALPVTWGTSSRDELENCSHHL

>sp|O95256|I18RA\_HUMAN Interleukin-18 receptor accessory protein OS=Homo sapiens  
GN=IL18RAP PE=1 SV=1

MLCLGWIFLWLVAGERIKGFNISGCSTKKLLWYSTRSEEEFVLFCDLPEPQKSHFCHRN  
RLSPKQVPEHLPFMGSDNLSDVQWYQQPSNGDPLEDIRKSYPHIIQDKCTLHFLTPGVNN  
SGSYICRPKMIKSPYDVACCVKMILEVKPQTNASCEYSASHKQDLLLGSTGSISCPSLSC  
QSDAQSPAVTWYKNGKLLSVERSNRIVVDEVYDYHQGTVCYDQSDTVSSWTVRAVVQV  
RTIVGDTKLKPDILDPVEDTLEVELGKPLTISCKARFGFERVFNPIKWKYIKDSLEWEV  
SVPEAKSIKSTLKDEIIERNIILEKVTQRDLRRKFVCFVQNSIGNTTQSVQLKEKRGVVL

LYILLGTIGTLVAVLAASALLYRHWIEIVLLYRTYQSKDQTLGDKKDFDAFVSYAKWSSF  
PSEATSSLSEEHLALSFPDVLENKYGYSLCLLERDVAPGGVYAEDIVSIKRSRRGIFI  
LSPNYVNGPSIFELQAAVNALDDQTLKLILIKFCYFQEPESLPHLVKKALRVLPVTWR  
GLKSVPNSRFWAKMRYHMPVKNSQGFTWNQLRITSRIFQWKLSRTETTGRSSQPKEW  
>sp|Q8N6P7|I22R1\_HUMAN Interleukin-22 receptor subunit alpha-1 OS=Homo sapiens GN=IL22RA1  
PE=1 SV=1

MRTLLTILTVGSLAAHAPEDPSDLLQHVKFQSSNFENILTWSGPEGTPDTVYSIEYKTY  
GERDWVAKKGCQRITRKSCNLTVEGTNLTELYYARVTAVSAGGRSATKMTDRFSSLQHTT  
LKPPDVTICISKVRSIQMIVHPTPTPIRAGDGHRLTLEDIFHDLFYHLELQVNRTYQMHLG  
GKQREYEFFGLTPDEFLGTIMICVPTWAKESAPYMCVRKTLPDRTWTYSFSGAFLFSMG  
FLVAVLCYLSYRYVKPPAPPNSLVNQRVLTFFQPLRFIQEHVLIIPVFDLSGPSSLAQPVQ  
YSQIRVSGPREPAGAPQRHSLSEITYLGQPDISILQPSNVPPPQILSPLSYAPNAAPEVG  
PPSYAPQVTPEAQFPFYAPQAISKVQPSYAPQATPDSWPPSYGVCMEGSGKDSPTGTLS  
SPKHLRPKGQLQKEPPAGSCMLGGLSLQEVTSLAMEESQEAKSLHQPLGICTDRTSDPNV  
LHSGEETGPQYLKGQLPLSSVQIEGHPMSLPLQPPSRPCSPSDQGSPWGLLESVCPK  
DEAKSPAPETSDLEQPTELDSLFRGLALTQWES

>sp|Q7Z5L9|I2BP2\_HUMAN Interferon regulatory factor 2-binding protein 2 OS=Homo sapiens  
GN=IRF2BP2 PE=1 SV=2

MAAAVAVAAASRRQSCYLCDLPRMPWAMIWDFTEPVCRGCVNYEGADRVEFVIETARQLK  
RAHGCFFPEGRSPPGAASAAAKPPPLSAKDILLQQQQQLGHGGPEAAPRAPQALERYPLA  
AAERPPRLGSDFGSSRPAASLAQPPTPQPPPVNGILVPNGFSKLEEPPELNRQSPNPRR  
GHAVPPTLVPLMNGSATPLPTALGLGGRAAASLAAVSGTAAASLGSAQPTDLGAHKRPAS  
VSSAAVEHEQREAAAKEKQPPPAHRRPADSLSTAAGAAELSAEGAGKSRGSGEQDWVN  
RPKTVRDTLLALHQHGHSGPFESKFKEPALTAGRLLGFEANGANGSKAVARTARKRKPS  
PEPEGEVGPPIKEAQPWLSTSTEGKIPMTPTSSFVSPPPPTASPHSNRTTPPEAAQN  
GQSPMAALILVADNAGGSHASKDANQVHSTTRRNSNSPPSPSSMNQRRLLGPREGVGGQAG  
NTGGLEPVHPASLPDSSLATSAPLCCTLCHERLEDTHFVQCPSVPSHKFCFPCSRQSIKQ  
QGASGEVYCPSGEKPLVGSNVPWAFMQGEIATILAGDVKKERDS

>sp|P08833|IBP1\_HUMAN Insulin-like growth factor-binding protein 1 OS=Homo sapiens  
GN=IGFBP1 PE=1 SV=1

MSEVPVARVWLVLALLTVQGVGTAGAPWQCAPCSAEKLALCPPVSASCSEVTRSAGCGCC  
PMCALPLGAACGVATARCARGLSRCLPGEQQPLHALTRGQGACVQESDASAPHAEEAGS  
PESPESTEITEEELLDNFHLMAPSEEDHSILWDAISTYDGSKALHVTNIKKWKEPCRIEL  
YRVVESLAKAQETSGEEISKFYLPNCNKNGFYHSRQCETSMDEAGLCWCVYPWNGKRIP  
GSPEIRGDPNCQIYFNVQN

>sp|P18065|IBP2\_HUMAN Insulin-like growth factor-binding protein 2 OS=Homo sapiens  
GN=IGFBP2 PE=1 SV=2

MLPRVGCPALPLPPPPLLLLLLLGASGGGGGARAIEVLFRCPPCTPERLAACGPPPVAP  
PAAVAAVAGGARMPCAEVREPGCGCCSVCARLEGEACGVYTPRCGQGLRCYPHPGSELP  
LQALVMGEGTCEKRRDAEYGASPEQVADNGDDHSEGLVENHVDSTMNMLGGGSAGRKP  
LKSGMKELAVFREKVTEQHRQMGKGKHHLGLEEPKKLRPPPARTPCQQELDQVLERIST  
MRLPDERGPLEHLYSLHIPNCDKHGLYNLKQCKMSLNGRGEWCVNPNPTGKLIQGAPTI  
RGDPECHLFYNEQQEARGVHTQRMQ

>sp|P17936|IBP3\_HUMAN Insulin-like growth factor-binding protein 3 OS=Homo sapiens  
GN=IGFBP3 PE=1 SV=2

MQRARPTLWAAALTLVLRLGPPVARAGASSAGLGPVVRCEPCDARALAQCAPPPAVCAE  
LVREPGCGCLTCALSEGQPCGIYTERCGSLRCQSPDEARPLQALLDGRGLCVNASAV  
SRLRAYLLPAPPAPGNASESEEDRSAGSVESPSVSSTHRVSDPKFHLHSKIIIIKKGHA  
KDSQRYKVDYESQSDTDQNFSSSESKRETEYGPCRREMEDTLNHLKFLNVLSPRGVHIPNC  
DKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

>sp|P24592|IBP6\_HUMAN Insulin-like growth factor-binding protein 6 OS=Homo sapiens  
GN=IGFBP6 PE=1 SV=1

MTPHRLLPPLLLLLALLLAASPGGALARCPGCGQGVQAGCPGGCVEEEDGGSPAEGCAEA  
EGCLRREGQECGVYTPNCAPGLQCHPPKDDEAPLRALLGRGRCLPARAPAVAEENPKES  
KPQAGTARPQDVNRDQQRNPGTSTTPSQPNSAGVQDTEMGPCRRHLDSVLQQLQTEVYR  
GAQTLVYPNCDHRGFYRKRQCRSSQGQRRGPCWCVDRMGKSLPGSPDNGSSSCTGSSG

>sp|Q16270|IBP7\_HUMAN Insulin-like growth factor-binding protein 7 OS=Homo sapiens  
GN=IGFBP7 PE=1 SV=1

MERPSLRALLGAAGLLLLLLPLSSSSSSDTCGPCEPASCPLPPLGCLLGETRDACGCC  
PMCARGECEPCGGGAGRGYCAPGMECVKSRKRRKGKAGAAAGPGVSGVCVCKSRYPVC  
GSDGTTYPSCQLRAASQRAESRGEKAITQVSKGTCEQGPSIVTPPKDIWNVTGAQVYLS  
CEVIGIPTPVL IWNKVKRGHYGVQRTELLPGDRDNLAIQTRGGPEKHEVTGWVLVSPLSK  
EDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEAEL

>sp|P05362|ICAM1\_HUMAN Intercellular adhesion molecule 1 OS=Homo sapiens GN=ICAM1 PE=1  
SV=2

MAPSSPRPALPALLVLLGALFPGPNAQTSVSPSKVILPRGGSVLVTCSTSCDQPKLLGI  
ETPLPKKELLPGNNRKVYELSNVQEDSQPMCYSNCPDGQSTAKTFLTVYWTPERVELAP  
LPSWQPVGKNLTLCQVEGGAPRANLTVVLLRGEKELKREPAVGEPAEVTTTVLVRRDHH  
GANFSCRELDLRPGLELFENTSAPYQLQTFVLPATPPQLVSPRVLEVDQTGTVVCSLD  
GLFPVSEAQVHLALGDQRLNPTVTYGNDSFSAKASVSVTAEDGTQRLTCAVILGNQSQE  
TLQTVTIYSFPAPNVILTKPEVSEGTEVTVKCEAHPRAKVTLNGVPAQPLGPRAQLLLKA  
TPEDNGRSFSCSATLEVAGQLIHKNQTRRLRVLYGPRLDERDCPGNWTWPENSQQTPMCQ  
AWGNPLPELKCLKDGTFPLPIGESVTVTRDLEGTYLCRARSTQGEVTRKVTNVLSPRYE  
IVIITVAAAVIMGTAGLSTYLYNRQRKIKKYRLQQAQKGTMPKPNQATPP

>sp|Q14773|ICAM4\_HUMAN Intercellular adhesion molecule 4 OS=Homo sapiens GN=ICAM4 PE=1  
SV=1

MGSLFPLSLLFLLAAAYPGVGSALGRRTKRAQSPKGSPLAPSGTSVPFVWRMSPEFVAVQ  
PGKSVQLNCSNSCPQPQNSSLRTPLRQGKTLRGPGWVSQQLLDVRAWSSLAHCLVTCAGK  
TRWATSRITAYKPPHSVILEPPVLKGRKYTLRCHVTQVFPVGYLVVTLRHGSRVIYSESL  
ERFTGLDLANVTLYEFAAGPRDFWQPVICHARLNL DGLVVRNNSAPITLMLAWSPAPTA  
LASGSIAALVGILLTVGAAYLCKCLAMKSQA

>sp|Q9H2K0|IF3M\_HUMAN Translation initiation factor IF-3, mitochondrial OS=Homo sapiens  
GN=MTIF3 PE=1 SV=4

MAALFLKRLTLQTVKSENSCIRCFGKHILQKTAPAQLSPIASAPRLSFLIHAKAFSTAED  
TQNEGKTKKNKTAFSNVGRKISQRV IHLFDEKGNDLGNMHRANVIRLMDERDLRLVQRN  
TSTEPAEYQLMTGLQILQERQRLREMEKANPKTGPTLRKELILSSNIGQHDLDTKTKQIQ  
QWIKKKHLVQITIKKGKNVDVSENEEMEEIFHQILQTMPIATFSSRPQAVQGGKALMCVL

RAFSKNEEKAYKETQETQERDTLNKDHGNDKESNVLHQ

>sp|P06730|IF4E\_HUMAN Eukaryotic translation initiation factor 4E OS=Homo sapiens  
GN=EIF4E PE=1 SV=2

MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKNDKSKTWQANL  
RLISKFDTVEDFWALYNHIQLSSNLMPGCDYSLFKDGI EPMWEDEKNKRGGRWLITLNKQ  
QRRSDLD RFWLETLLCLIGESFDDYSDDVCGAVVNVRAKGDKIAIWTECENREAVTHIG  
RVYKERLGLPPKIVIGYQSHADTATKSGSTTKNRFV

>sp|P09913|IFIT2\_HUMAN Interferon-induced protein with tetratricopeptide repeats 2  
OS=Homo sapiens GN=IFIT2 PE=1 SV=1

MSENNKNSLESSLRQLKCHFTWNLMEGENSLDDFEDKVFYRTEFQNREFKATMCNLLAYL  
KHLKGQNEAALECLRKAEELIQEHADQAEIRSLVTWGN YAWVYYHMGRLSDVQIYVDKV  
KHVCEKFSSPYRIESPELDCEEGWTRLKCGGNQNERAKVCFEKALEKKPKNPEFTSGLAI  
ASYRLDNWPPSQNAIDPLRQAIRLNPDNQYLKVLLALKLHKMREEEEEEGEKLV E EAL  
EKAPGVTDLRSAAKFYRRKDEPDKAIELLKKALEYIPNNAYLHCQIGCCYRAKVFQVMN  
LRENGMYGKRKLELIGHAVAHLKKADEANDLFRVCSILASLHALADQYEDAEYYFQKE  
FSKELTPVAKQLLHLRYGNFQLYQMKCEDKAIIHFI EGVKINQKSREKEKMKDKLQKIAK  
MRLSKNGADSEALHVLAFLLQELNEKMQQAEDSERGLESGSLIPSASSWNGE

>sp|P01566|IFN10\_HUMAN Interferon alpha-10 OS=Homo sapiens GN=IFNA10 PE=1 SV=1

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLGQMGRISPFSCCLKDRHDFR  
IPQEEFDGNQFQKAQAI SVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNDLE  
ACVIEVGV EETPLMNEDSILAVRKYFQRITLYLIERKYSPCAWEVVRAEIMRSLSFSTN  
LQKRLRRKD

>sp|Q9Y547|IFT25\_HUMAN Intraflagellar transport protein 25 homolog OS=Homo sapiens  
GN=HSPB11 PE=1 SV=1

MRKIDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVRIE  
RLVIQSYFVQTLKIEKSTSKEPVD FEQWIEKDLVHTEGQLQNEEIVAHDG SATYLRFIIV  
SAFDHFASVHSVSAEGTVVSNLSS

>sp|Q9NQC8|IFT46\_HUMAN Intraflagellar transport protein 46 homolog OS=Homo sapiens  
GN=IFT46 PE=1 SV=1

MADNSSDECEEENNKEKKKTSQLTPQRGFSENE DDDDDDDSSSETDSDDDDDEEHGAPL  
EGAYDPADYEHLPVSAEIKELFQYISRYTPQLIDLHKLPFIPDFIPAVGDIDAF LKVP  
RPDGKPDNLG LLVLEPSTKQSDPTVLSLWL TENSQHNITQHMKVKSLEDAEKNPKAID  
TWIESISELHRSKP PATVHYTRMPDIDTLMQEWSPEFEELLGKVS LPTAEIDCSLA EYI  
DMICAILDIPVYKSRIQSLHLLFSLYSEFKNSQHFKALAE GKKAFTPSSNSTSQAGDMET  
LTFS

>sp|Q9NWB7|IFT57\_HUMAN Intraflagellar transport protein 57 homolog OS=Homo sapiens  
GN=IFT57 PE=1 SV=1

MTAALAVVTTSGLEDGVPRSRGEGTGEVVLERGP GAAYHMFVVMEDLVEKLKLLRYEEEF  
LRKSNLKAPSRHYFALPTNPGEQFYMFCTLA AWLINKAGRPFEQPQEYDDPNATISNILS  
ELRSFGRTADFPSPKLKSGYGEHVCYVLDCFAEEALKYIGFTWKRPIYPVEELEEESVAE  
DDAELTLNKVDEEFVEEETDNEENFIDLNLKAQTYH LDMNETAKQEDILESTTDAAEWS  
LEVERVLPQLKVTIRTDNKDWRIHVDQMHQHRSGIESALKETKGFLDKLHNEITRTLEKI  
SSREKYINNQLENLVQEYRAAQAQLSEAKERYQQGNGGVTERTRLLSEVMEELEKVKQEM  
EEKSSMTDGAPLVKIKQSLTKLKQETVEMDIRIGIVEHTLLQSKLKEKSNMTRNMHATV



IPEPATGFY

>sp|Q6UXB1|IGFL3\_HUMAN Insulin growth factor-like family member 3 OS=Homo sapiens GN=IGFL3  
PE=1 SV=1

MRPRCCILALVCWITVFLQLQCSKGTDDAPVGSGLWLCQPTPRCGNKIYNPSEQCCYDDAI  
LSLKETRRCGSTCTFWPCFELCCPESFGPQQKFLVKLRVLGMKSQCHLSPISRSTRNRR  
HVLYP

>sp|P01876|IGHA1\_HUMAN Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

ASPTSPKVFPFLSLCSTQPDGNVVIACLVQGFFPQEPLSVTWESEGGVTARNFPSPQDAS  
GDLYTTSSQLTLPATQCLAGKSVTCHVKHYTNPSQDVTVPVSTPPTSPSTPPTSP  
SCCHPRLSLHRPALEDLLLGEANLTCTLTGLRDASGVFTWTPSSGKSAVQGPPERDLC  
GCYSVSSVLPGCAEPWNHGKFTCTAAYPESKTPLTATLSKSGNTFRPEVHLLPPPSEEL  
ALNELVTLTCLARGFSPKDVLRWLQGSQELPREKYLTWASRQEPSQGTTFFAVTSILRV  
AAEDWKKGDTFSCMVGHEALPLAFTQKTIDRLAGKPTHVNVSVVMAEVDGTCY

>sp|P01591|IGJ\_HUMAN Immunoglobulin J chain OS=Homo sapiens GN=JCHAIN PE=1 SV=4

MKNHLLFWGVLAVFIKAVHVKAQEDERIVLDNKCKCARITSRIIRSEDPNEDIVERNI  
RIIVPLNNRENISDPTSPLRTRFVYHLSDLCKKCDPTEVELDNQIVTATQSNICDEDSAT  
ETCYTYDRNKCYTAVVPLVYGGETKMOVETALTPDACYPD

>sp|B9A064|IGLL5\_HUMAN Immunoglobulin lambda-like polypeptide 5 OS=Homo sapiens GN=IGLL5  
PE=2 SV=2

MRPKTGQVGCETPEELGPGPRQRWPLLLLGLAMVAHGLLRPMVAPQSGDPDPGASVGSSR  
SSLRSLWGRLLLQPSQPRADPRCWPGRGWSEPSLCYVFGTGKVTVLGQPKANPTVTLF  
PPSSEELQANKATLVCLISDFYPGAVTVAWKADGSPVKAGVETTKPSKQSNNKYAASSYL  
SLTPEQWKSQRSYSCQVTHEGSTVEKTVAPTECS

>sp|A1L1A6|IGS23\_HUMAN Immunoglobulin superfamily member 23 OS=Homo sapiens GN=IGSF23  
PE=2 SV=2

MRAKPQSPLPRNPVPAWSPPTTTTDPMLEKDAAGGDFPANLVLQLMPLKTFPAAIRGVIQ  
SELNYSVILQWVVTMDPEPVLSWTFSGVPCGMGEKLFIRRLSCEQLGTYMCIATNSKKQL  
VSEPTISLKPIMQPTAEPMEDPTLSLSGSGSAIGLLAAGILGAGALIAGMCFIIIS  
LRTDRQRIGICS

>sp|Q93033|IGSF2\_HUMAN Immunoglobulin superfamily member 2 OS=Homo sapiens GN=CD101 PE=1  
SV=2

MAGISYVASFFLLLTKLISIGQREVTVQKGPLFRAEGYPVSGCNVTGHQGPSEQHFQWSV  
YLPTNPTQEVQIIISTKDAAFSYAVYTQVRVSGDVYVERVQGNVLLHISKLMKDAGEYE  
CHTPNTDEKYYGSYAKTNLIVIPDTLSATMSSQTLGKEEGEPLALTCEASKATAQHHTL  
SVTWYLTQDGGGSQATEIISLSKDFILVPGPLYTERFAASDVQLNKLGPPTFRLSIERLQ  
SSDQGQLFCEATEWIQDPDETWMFITKKQTDQTTLRIQPAVKDFQVNITADSLFAEGKPL  
ELVCLVSSGRDPQLQGIWFFNGTEIAHIDAGGVLGLKNDYKERASQGELQVSKLGPKAF  
SLKIFSLGPEDEGAYRCVVAEVMKTRTGSWQVLQRKQSPDSHVHLRKPAARSVVMSTKNK  
QQVWWEGETLAFLCKAGGAESPLSVSWWHIPRDQTQPEFVAGMGQDGIVQLGASYGVPSY  
HGNTREKMDWATFQLEITFTAITDSGTIECRVSEKSRNQARDLSWTQKISVTVKSLESS  
LQVSLMSRQPQVMLTNTFDLSCVVRAGYSDLKVPLTVTWQFQPASSHIFHQLIRITHNGT  
IEWGNFLSRFQKKTKVSQSLFRSQLLVHDATEEETGVYQCEVEVYDRNSLYNNRPPRASA  
ISHPLRIAVTLPESKLKVNSRSQVQELSINSNTDIECSILSRNNGNLQLAIWYFSPVST  
NASWLKILEMDQTNVIKTGDEFHTPQRKQKFHTEKVSQDLFQLHILNVEDSDRGKYHCAV

EEWLLSTNGTWHKLGEKKSGLTELKPKTGSKVRVSKVYWTENVTEHREVAIRCSLESVG  
SSATLYSVMWYWNRENSGSKLLVHLQHDGLLEYGEEGLRRHLHCYRSSSTDFVLKLHQVE  
MEDAGMYWCRAEWQLHGHPSKWINQASDESQRMVLTVPSEPTLPSRICSSAPLLYFLF  
ICPFVLLLLLLISLLCLYWKARKLSTLRNTRKEKALWVDLKEAGVTTNRREDEEEDEG  
N

>sp|Q9NSI5|IGSF5\_HUMAN Immunoglobulin superfamily member 5 OS=Homo sapiens GN=IGSF5 PE=2  
SV=2

MGQKERSTADTLPDLEEWKSAAGLRWWQTAVVDGSGSGNEVIEGPQNARVLKGSQARFNC  
TVSQGWKLIMWALSMDMVLSVRPMEPIITNDRFTSQRYDQGGNFTSEMI IHNVEPSDSGN  
IRCSLQNSRLHGSAYLTVQVMGELFIPSVNLVVAENEPCEVTCLPSHWTRLPDISWELGL  
LVSHSSYYFVPEPSDLQSAVSLALTPQSNGTLTCVATWKSLLKARKSATVNLTVIRCPQD  
TGGGINIPGVLSLPSLGFSLPTWGKVLGLAGTMLLTPTCTLTIRCCCRRRCCGCNCC  
CRCCFCCRRKRGFRIQFQKKSEKEKTNKETETESGNENSGYNSDEQKTTDTASLPPKSCE  
SSDPEQRNSSCGPPHQRADQRP RPASHPQASFNLASPEKVSNTTV

>sp|Q16552|IL17\_HUMAN Interleukin-17A OS=Homo sapiens GN=IL17A PE=1 SV=1

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTP  
KRSSDYNRSTSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEIL  
VLRREPPHCPNSFRLEKILVSVGCTCVTPIVHHVA

>sp|Q13478|IL18R\_HUMAN Interleukin-18 receptor 1 OS=Homo sapiens GN=IL18R1 PE=1 SV=1

MNCRELPLTLWVLISVSTAESCTSRPHITVVEGEPFYLKHCSCSLAHEIETTTKSWYKSS  
GSQEHVELNPRSSSRIALHDCVLEFWPVELNDTGSYFFQMKNYTQKWKLNIIRNKHSCF  
TERQVTSKIVEVKKFFQITCENSYYQTLVNSTSLYKNCKLLENNKNPTIKKNAEFEDQ  
GYSCVHFLHHNGKLFNITKTFNITIVEDRSNIVPVLLGPKLNHVAVELGKNVRLNCSAL  
LNEEDVIYWMFGEENGSDPNIHEEKEMRIMTPEGKWHASKVLRIENIGESNLNLVLYNCTV  
ASTGGTDTKSFILVRKADMADIPGHVFTRGMI IAVLILVAVVCLVTVCVIYRVDLVLFYR  
HLTRDETLDGKTYDAFVSYLKECRPENGEETFAVEILPRVLEKHFYKLCIFERDVV  
PGGAVVDEIHSLIEKSRRLIIVLSKSYMSNEVRYELESGLHEALVERKIKIILIEFTPVT  
DFTFLPQSLKLLKSHRVLKKADKSLSYNSRFWKNLLYMPAKTVKPRDEPEVLPVLSE  
S

>sp|Q14116|IL18\_HUMAN Interleukin-18 OS=Homo sapiens GN=IL18 PE=1 SV=1

MAAEPVEDNCINFVAMKFIDNTLYFIAEDDENLESDFGKLESKLSVIRNLNDQVLFIDQ  
GNRPLFEDMTDSDCRDNAPRTIFIISMYKDSQPRGMAVTISVKCEKISTLSCENKIISFK  
EMNPPDNIKDTKSDIIFQRSVPGHDKMQFESSSYEGYFLACEKERDLFKLILKKEDEL  
GDRSIMFTVQNE

>sp|P01584|IL1B\_HUMAN Interleukin-1 beta OS=Homo sapiens GN=IL1B PE=1 SV=2

MAEVP ELASEMMAYYSGNEDDLFFEADGPKQMKCSFQDLDLCPDGGIQLRISDHHYSG  
FRQAASVVVAMDKLRKMLVPCPQTFQENDLSTFFPFIFEEPIFFDTWDNEAYVHDAPVR  
SLNCTLRDSQQKSLVMSGPYELKALHLQGGDMEQQVVFMSFVQGEESNDKIPVALGLKE  
KNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINNKLFEESAQFPNWIIST  
SQAENMPVFLGGTKGGQDITDFTMQFVSS

>sp|Q9GZX6|IL22\_HUMAN Interleukin-22 OS=Homo sapiens GN=IL22 PE=1 SV=1

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAPISSHCRLDKSNFQQPYITNRTFMLA  
KEASLADNNTDVRDIGEKLFGVSMSERCYLMKQVLNFTLEEVLFPQSDRFQPYMQEVVP  
FLARLSNRLSTCHIEGDDLHIQRNVQKLKDTVKKLGESGEIKAIGELDLLFMSLRNACI

>sp|Q96PC2|IP6K3\_HUMAN Inositol hexakisphosphate kinase 3 OS=Homo sapiens GN=IP6K3 PE=1 SV=2

MVVQNSADAGDMRAGVQLEPFLHQVGGHMSVMKYDEHTVCKPLVSREQRFYESLPLAMKR  
FTPQYKGTVTVHLWKDSTGHLSTLVANPVKESQEPFKVSTESAAVA IWQTLQQTTGSNGSD  
CTLAQWPHAQLARSPKESPAKALLRSEPHLNTPAFSLVEDTNGNQVERKSFNPWGLQCHQ  
AHLTRLCSEYPENKRHRFLLLENNVVSQYTHPCVLDLKMGTQHGDDASEEKKARHMRKCA  
QSTSACLGVRICGMQVYQTDKKYFLCKDKYYGRKLSVEGFRQALYQFLHNGSHLRRELLE  
PILHQLRALLSVIRSQSSYRFYSSSLVIYDGQEPPERAPGSPHPHEAPQAAHGSSPGGL  
TKVDIRMIDFAHTTYKGYWNEHTTYDGPDPGYIFGLENLIRILQDIQEGE

>sp|Q3MIP1|IPIL2\_HUMAN Inositol 1,4,5-trisphosphate receptor-interacting protein-like 2  
OS=Homo sapiens GN=ITPRIPL2 PE=1 SV=1

MSVHYTLNLRVFWPLVTGLCTALVCLYHVLRGSGGARAEPADGVDGGFPLLKVAVLLLLLS  
YVLLRCRHAVRQRFLPGSPRLEGHAAFSSRHFREPGLSILLESYYEHEVRLSPHVLGHKS  
AHVSRIVGELVRAGRARGSPGLIPGGALALAFRGDFIQVGSAYEQHKIRRPDSFDVLVPL  
RLPPLVALEPRSLGEEPALAPAFRGCFKALKAPPSPSGASGGHWLRDCKPFADAFCDV  
RGRRHLSATLVLRWFQSHLQRSLATVRYSLGRCRVTLTPGGLEQPPTLHILPCRTDYGC  
CRLSMAVRLIPAVHLGDGVFLVAPPPPLPSAPLLELPEGLRAEALWGVNTARQEQLLS  
WLQERAAPGACYLKCLQLLKALRDLGARGLDSAAATQWGRILSSYVLKTVLLAVLLRKGA  
PGQGWEDEHLGRCLEELVQFLRDCLLRHTLFHCVLPGGAAAEVGPLPKALREAAPVDL  
LAAFDGHARELAAARLLSTWQRLPQLRAYGGPRYLARCPPPRSQRQTQGFLEGE

>sp|P61925|IPKA\_HUMAN cAMP-dependent protein kinase inhibitor alpha OS=Homo sapiens  
GN=PKIA PE=1 SV=2

MTDVETTYADFIASGRTGRRNAIHDILVSSASGNSNELALKLAGLDINKTEGEEDAQRSS  
TEQSGEAQGEAAKSES

>sp|Q8NFU5|IPMK\_HUMAN Inositol polyphosphate multikinase OS=Homo sapiens GN=IPMK PE=1  
SV=1

MATEPPSPLRVEAPGPPEMRTSPAIESTPEGTPQPAGGRLRFLNGCVPLSHQVAGHMYGK  
DKVGILQHPDGTVLKQLQPPPRGPRELEFYNMVYAADCDFGVLLELRKYLPKYYGIWSPP  
TAPNDLYLKLEDVTHKFNKPCIMDVKIGQKSYDPFASSEKIQQQVSKYPLMEEIGFLVLG  
MRVYHVHSDSYETENQHYGRSLTKETIKDGVSRFFHNGYCLRKDAVAASIQKIEKILQWF  
ENQKQLNFYASSLLFVYEGSSQPTTKLNDRTLAEKFLSKGQLSDTEVLEYNNNFHVLSS  
TANGKIESSVGKSLSKMYARHRKIYTKKHHSQTSCLKVENLEQDNGWKSMSQEHLNGNVLS  
QLEKVFIHLPTGCQEIAEVEVRMIDFAHVFPSNTIDEGYVYGLKHLISVLRSLDN

>sp|O00410|IPO5\_HUMAN Importin-5 OS=Homo sapiens GN=IPO5 PE=1 SV=4

MAAAAAEQQQFYLLGNLLSPDNVVRKQAEETYENIPGQSKITFLLQAIRNTTAAEEARQ  
MAAVLLRRLSSAFDEVYPALPSDVQTAIKSELLMI IQMETQSSMRKKVCDIAAELARNL  
IDEDGNNQWPEGLKFLFDSVSSQNVGLREAAALHIFWNFPGIFGNQQQHYLDVIKRLVQC  
MQDQEHPISIRTLARATAAFILANEHNVALFKHFADLLPGFLQAVNDSCYQNDSDVLKSL  
VEIADTVPKYLRPHLEATLQLSLKCGDTSLNNMQRLALEVIVTLSETAAAMLKHTNI  
VAQTIQMLAMMVDLEEDEDWANADELEDDDFDSNAVAGESALDRMACGLGGKLVLP  
MIK EHMQLQNPDWKYRHAGLMALSAIGEGCHQQMEGILNEIVNFVLLFLQDPHPRVRYAAC  
NAVGMATDFAPGFQKKFHEKVI AALLQTMEDQGNQRVQAAAAALINFTEDCPKSLLIP  
YLDNLVKHLHSIMVLKLQELIQKGTKLVLEQVVTSTIASVADTAAEFVPPYDLFMP  
SLKH IVENAVQKELRLLRGKTIECISLIGLAVGKEKFMQDASDVMQLLLKTQTD  
FNDMEDDDPQ

ISYMISAWARMCKILGKEFQQYLPVVMGPLMKTASIKPEVALLDTQDMENMSDDDGWFEV  
NLGDQQSFGIKTAGLEEKSTACQMLVCYAKELKEGFVEYTEQVVKLMVPLLKFYFHDGVR  
VAAAESMPLLLLECARVRGPEYLTQMWHFMC DALIKAIGTEPDSVLEIMHSFAKCI EVM  
GDGCLNNEHFEELGGILKAKLEE HFKNQELRQVKRQDEDYDEQVEESLQDEDDNDVYILT  
KVSDILHSIFSSYKEKVL PWFEQLLPLIVNLICPHRPWPDRQWGLCIFDDVIEHCSPASF  
KYAEYFLRPMLQYVCDNSPEVRQAAAYGLGVMAQYGGDNYPFC TEALPLLVRVIQSADS  
KTKENVNATENCISAVGKIMKFKPDCVNVEEVLPHWLSWLP LHEDKEEAVQTFNYLCDLI  
ESNHPIVLGPNNTNLPKIFSI IAE GEMHEAIKHEDPCA KRLANVVRQVQTSGGLWTECIA  
QLSPEQQA AIQELLNSA

>sp|Q96PQ5|IPP2L\_HUMAN Putative protein phosphatase inhibitor 2-like protein 1 OS=Homo sapiens GN=PPP1R2P1 PE=5 SV=1

MAASTASQRPLKGILKDNSTSTSSMVASAEHPRGSVHEQLSKKSQKWDEMNILATYRPAD  
KDYGLMKIDEPSTPYHSTMGDDEDACSDTETTEAMATDSLAKNLAAAEGLPKYQVQE QE  
SSGEEDSDLSPEEREKKRQFEMRRTLHYNEGLNIKLARQLISKDLHDDDKVEEMLETAHG  
ESMNT EESNQGSTASDQQQNKSRSS

>sp|Q9P2D3|HTR5B\_HUMAN HEAT repeat-containing protein 5B OS=Homo sapiens GN=HEATR5B PE=1 SV=2

MELAHSLLLNEEALAQITEAKRPVFI FEWLRFLDKVLVAANKTDVKEKQKKLVEQLTGLI  
SSSPGPPTRKLLAKNLAALYSIGDTFTVFQTLDKCNDI IRNKDDTAAYLPTKLA AVACVG  
AFYEKMG RMLGSAPFETVNNLLKSLKSAESQGRSEILMSLQKVL SGLGGAAASSHRDIYK  
NARSLLTDRSMAVRC AVAKC LLELQNEAVFMWTAEL ENIATLCFKALENSNYGVRVAVSK  
LLGTVMATALMPKQATVMRQNVKRATFDEVLELMATGFLRGGSGFLKSGGEMLKVGGSVN  
REVRVGV TQAYVVFVTTLGGQW LERSFATFLSHVLDLVSHPRATQTHVEAVYSRRCVSFI  
LRATVGSLLGEKAQIAAAKEICQAIGKQMKAVEAVVNDTSGENKSGAADIAASQHVMVCA  
LQELGSLVQSLNATASPLIQEASIGLLEIVTSVLLHPSMAARLAAAWCLRCVAVALPFQL  
TPFLDRCAERLNNLKSPEAVSGYSFAMAALLGGVHQCP LGIPHAKGKMVVSIAEDLLRT  
AAQNSRLSLQRTQAGWLLLGALMTLGPSVVRYHLPKMLLLWRNVFPRSLKELEAEKARGD  
SFTWQVTLEGRAGALCAMRSFVAHCPELLTEDVIRKLMTPIECAMTMMSHIP SVMKAHGA  
HLKASAAMVRLRLYDILALLPKPTYEGSFNALLRELVAEFTLTDNSANTTTSLRLSLCHY  
DDSVLLG SWLQETDHKSIEDQLQPN SASGSGALEHDPSSIYLRIPAGEAVPGPLPLGVSV  
IDASVALFGVVFPHVSYKHRLQMLDHFAECVKQAKGVRQQA VQLNIFTAVLSALKGLAEN  
KSTLGPEEVRKSALTVMGPLDNPNPILRCAAGEALGRMAQVVG EATFIARMAQYSFDKL  
KSARDVVSRTGHS LALGCLHRYVGGIGSGQHLKTSVS ILLALA QDGTSP EVQTWSLHSLA  
LIVDSSGPMYRGYVEPTLSVLVTL LLLTVPPSHTEVHQCLGRCLGAIITTVGP ELQNGAT  
TSTIRSSCLVGCAITQDHS DSLVQAAAISCLQQLHMFAPRHVNLSSLVPSLCVHLCSSHL  
LLRRAAVACLRLAQREAAEVCEYAMSLAKNTGDKESSANVSPFAPGVSSRTDIHCRHQ  
GVNITETGLEGLLFGMLDRETDRKLCSDIHDTLGHMLSSLAVEKLSHWLMLCKDVLAASS  
DMSTATLLSSGKDEEA EKKDEMDDTMFTTLGEEDKSKPFVAPRWATRVFAADCLCRIIN  
LCENADQAHFDLALARS AKLRNPTNDLLVLHSDLIRMAFMAATDHSNQLRMAGLQALE D  
IIKKFASVPEPEFPGHVILEQYQANVGAALRPAFSQDTPSDII AKACQVCSTWIGSGVVS  
DLNDLRRVHNLVSSLDKVQAGKGSSSQLYRESATTMEKLAVLKAWAEVYVVMNIKKEA  
ESKPKRAIKNTDDDDDDCGTIDELPPDSLITLVQPELPTLSRLWLAALKDYALLTLP AEF  
SSQLPPDGGAFYTPETIDTARLHYRNSWAPILHAVALWLNSTGFTCSEST EAAAAISGLQK  
RSTSVNLNQASGAVGSAKSLPEINKDRMHLILGVSIQFLCSPRPEEPIEHVTACLQALHT

LLDSPYARVHIAEDQLIGVELLSVLHRLLLTWNPSSVQLLVTVGVVQQIVRAAQDYLQEKR  
NTLNEDDMEKEACTVLGEGGDSGLIPGKSLVFATMELLMFILVRHMPHLSTKVSDSPSH  
IATKTRLSEESARLVAATVTILSDLPSLCSPAGCMTILPTILFLIARILKDTAIKSADNQ  
VPPPVSAALQGIKSIVTLMAKTEAGVQKQWTALIRSTLACILEYSQPEDSVPTPDEVSM  
LTAIALFLWSASNEIIGVQSLQNGCMNRFKNALNSCDPWVQAKCYQLLSVQHSNRALS  
TPYIHS LAPIVVEKLKAVERNRPASNIELLAVQEGIKVLETLVALGEEQNRVQLLALLVP  
TLISYLLDENSFASASSASKDLHEFALQNLMHIGPLYPHAFKTMGAAPELKVRLTAVR  
ASQASKAKAAARQPAPAIHSAPTIKLTSTFF

>sp|Q8IVG9|HUNIN\_HUMAN Humanin OS=Homo sapiens GN=MT-RNR2 PE=1 SV=1  
MAPRGFSCLLLLTSEIDLVPKRRRA

>sp|A0A0B4J1V2|HV226\_HUMAN Immunoglobulin heavy variable 2-26 OS=Homo sapiens GN=IGHV2-  
26 PE=3 SV=1

MDTLCYTLTLLTTPSWVLSQVTLKESGPVLVKPTETLTCTVSGFSLSNARMGVSWIRQ  
PPGKALEWLAHIFSNDEKSYSTSLKSRLTISKDTSKSQVLTMTNMDPVDATYYCARI

>sp|P01780|HV307\_HUMAN Immunoglobulin heavy variable 3-7 OS=Homo sapiens GN=IGHV3-7 PE=1  
SV=2

MELGLSWVFLVAILEGVQCEVQLVESGGGLVQPGGSLRLSCAASGFTFSSYWMSWVRQAP  
GKGLEWVANIKQDGSEKYYVDSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR

>sp|P01766|HV313\_HUMAN Immunoglobulin heavy variable 3-13 OS=Homo sapiens GN=IGHV3-13  
PE=1 SV=2

MELGLSWVFLVAILEGVQCEVQLVESGGGLVQPGGSLRLSCAASGFTFSSYDMHWVRQAT  
GKGLEWVSAIGTAGDPYYPGSKGRFTISRDNAKNSLYLQMNSLRAGDTAVYYCAR

>sp|P01764|HV323\_HUMAN Immunoglobulin heavy variable 3-23 OS=Homo sapiens GN=IGHV3-23  
PE=1 SV=2

MEFGLSWLFLVAILKGVQCEVQLVESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAP  
GKGLEWVSAISGGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRAEDTAVYYCAK

>sp|A0A0A0MS15|HV349\_HUMAN Immunoglobulin heavy variable 3-49 OS=Homo sapiens GN=IGHV3-  
49 PE=1 SV=1

MEFGLSWVFLVAILKGVQCEVQLVESGGGLVQPGGSLRLSCTASGFTFGDYAMSWVRQAP  
GKGLEWVGFIKSKAYGGTTEYAASVKGRFTISRDDSKSIAYLQMNSLKTEDTAVYYCTR

>sp|P01824|HV439\_HUMAN Immunoglobulin heavy variable 4-39 OS=Homo sapiens GN=IGHV4-39  
PE=1 SV=2

MDLMCKMKHLWFLLLVAAPRWVLSQLQLQESGPGLVKPSETLSLTCTVSGGSISSSSY  
YWGWIRQPPGKLEWIGSIYYSGSTYYNPSLKSRTISVDTSKNQFSLKLSSVTAADTAV  
YYCAR

>sp|P31260|HXA10\_HUMAN Homeobox protein Hox-A10 OS=Homo sapiens GN=HOXA10 PE=1 SV=3

MSARKGYLLPSPNYPTTMSCESPAANSFLVDSLISGRGEAGGGGGGAGGGGGGGYAH  
GGVYLPAAADLPYGLQSCGLFPTLGGRNEAASPGSGGGGGGLGPAHGYGPSIDWLWD  
APRSCRMEPPDPPPPPPQPPPPPPQPPAPQATSCSFAQNIKEESSYCLYDSADKCPK  
VSATAAELAPFPRGPPPDGCALGTSSGVPVPGYFRLSQAYGTAKGYSGGGGAQQLGAGP  
FPAQPPGRGFDLPALASGSADAARKERALDSPPPPTLACGSGGGSQGDEEAHASSAAE  
ELSPAPSESSKASPEKDSLGNKGENAANWLTAKSGRKKRCPYTKHQTLLEKEFLFNMY  
LTRERRLEISRSVHLTDRQVKIWFQNRMRMLKKMNRENRIRELTANFNFS

>sp|P09630|HXC6\_HUMAN Homeobox protein Hox-C6 OS=Homo sapiens GN=HOXC6 PE=2 SV=3

MNSYFTNP SLSCHLAGGQDVL PNVALNSTAYDPVRHFSTYGA AVAQNR IYSTPFYSPQEN  
VVFSSSRGPYDYG SNSFYQEKDMLSNCRQNTLG HNTQTSIAQDFSSEQGRTAPQDQKASI  
QIYPWMQRMNSHSGVGYGADRRRGRQIYSRYQTLELEKEFHFNRYLTRRRRIEIANALCL  
TERQIKIWFQNRMMKWKESNLSTLSGGGGGATADSLGGKEEKRETEEEKQKE

>sp|Q5T013|HYI\_HUMAN Putative hydroxypyruvate isomerase OS=Homo sapiens GN=HYI PE=1 SV=2

MAPLRF SANLSWLFPELSGLPARVRAAGSSGFEAVEVAWPYAETPEALARAAREAGLRLV  
LINTPPGDQEKEGEMGLGAVPGRQA AFREGLEQAVRYAKALGCPRIHLMAGRVPQGADRIA  
VKAEMEAVFLENLRHAAGVLAQEDLVGLLEPINTRITDPQYFLDTPQAAAAILQKVGRPN  
LQLQMDIFHWQIMDGNLTGNIREFLPIVGHVQVAQVPGRGEPSSPGELNFPYLFQLEDE  
GYKGFVGC EYQPRGDTVEGLSWLSYWDRRGHPEAGQ

>sp|Q6UXL0|I20RB\_HUMAN Interleukin-20 receptor subunit beta OS=Homo sapiens GN=IL20RB  
PE=1 SV=1

MQTFTMVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHL LMWSPVIAP  
GETVYYSVEYQGEYESLYTSHIWIPSSWSCSLTEGPECDVTDDITATVPYNLRVRATLGSQ  
TSAWSILKHPFNRNSTILTRPGMEITKDG FHLVIELEDLGPQFEFLVAYWRREP GAEEHV  
KMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGRYSAFSQTECVEVQGEA IPLVLALFAF  
VGFMLILVVVPLFVWKMRLLQYSCCPVVVLPDTLKITNSPQKLISCRREEVDACATAVM  
SPEELLRAWIS

>sp|Q9UBH0|I36RA\_HUMAN Interleukin-36 receptor antagonist protein OS=Homo sapiens  
GN=IL36RN PE=1 SV=1

MVLSGALCFR MKDSALKVLYLHNNQLLAGGLHAGKVIKGEEISVVPNRWLDASLSPVILG  
VQGSQCLSCGVGQEPTLTLEPVNIMELYLGAKESKSFTFYRRDMGLTSSFESAAYPGWF  
LCTVPEADQPVR LTQLPENGGWNAPITDFYFQQCD

>sp|Q14642|I5P1\_HUMAN Type I inositol 1,4,5-trisphosphate 5-phosphatase OS=Homo sapiens  
GN=INPP5A PE=1 SV=1

MAGKAAAPGTAVLLVTANVGS LFDDPENLQKNWLREFYQVVHTHKPHFMALHCQEFGGKN  
YEASMSHVDK FVKELLSSDAMKEYNRARVYLDENYKSQE HFTALGSFYFLHESLKNIYQF  
DFKAKKYRKVAGKEIYSDTLESTPMLEKEKFPQDYFPECKWSRKGFIRTRWCIADCAFDL  
VNIHLFHDASNLVAWETSPSVYSGIRHKALGYVLDRIIDQRFEKVSYFVFGDFNFRLDSK  
SVVETLCTKATMQTVRAADTNEVVKLIFRESNDNRKVMLQLEKKLFDYFNQEVFRDNNGT  
ALLEFDKELS VFKDRLYELDISFPPSYSEDARQGEQYMNTRCPAWCDRILMSPSAKEL  
VLRSESEEKVV TYDHIGPNVCMGDHKPVFLAFRIMP GAGKPHAHVHKCCVVQ

>sp|P60842|IF4A1\_HUMAN Eukaryotic initiation factor 4A-I OS=Homo sapiens GN=EIF4A1 PE=1  
SV=1

MSASQDSRSRDNPGDMEPEGVIESNWN EIVDSFDDMNLS ESLLRGIYAYGF EKPSAIQQ  
RAILPCIKGYDVIAQAQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKV  
MALGDYMGASCHACIGGTNVRAEVQKLQMEAPHIIVGTPGRVFDMLNRRYLSPKYIKMFV  
LDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTKKFM RDPIRILVKKEE  
LTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFINTRRKVDWLTEKM HARDFTVS  
AMHGDM DQKERDVIMREFRSGSSRVLITD LLLARGIDVQQVSLVINYDLPTNRENYIHRI  
GRGGRFGRKGVA INMVTEEDKRTL RDIETFYNTSIEEMPLNVADLI

>sp|Q6IS14|IF5AL\_HUMAN Eukaryotic translation initiation factor 5A-1-like OS=Homo sapiens  
GN=EIF5AL1 PE=2 SV=2

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVG

IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVPEDLRLPEGDLG  
KEIEQKYDCGEEILITVLSAMTEEAABAIAKAMAK

>sp|AOAVF1|IFT56\_HUMAN Intraflagellar transport protein 56 OS=Homo sapiens GN=TTC26 PE=2  
SV=1

MMLSRAPAVGRGVQHTDKRKKKGRKIPKLEELLSKRDFTGAITLLEFKRHVGEEEDTN  
LWIGYCAFHLGDYKRALEEYENATKEENCNSEVWVNLACTYFFLGMYKQAEAAGFKASKS  
RLQNRLLFHLAHKFNDEKKLMSFHQNLQDVTEDQLSLASIHMYRSHYQEADIDYKRILLD  
NREYLALNVYVALCYKLDYYDVSQEVLAIVLQIPDSTIALNLKACNHFRLYNGRAAEA  
ELKSLMDNASSSFEFAKELIRHNLVVFRGGEGALQVLPPLVDVIPEARLNLVIYYLRQDD  
VQEAYNLIKDLEPTTPQEYILKGVVNAALGQEMGSRDHMKIAQQFFQLVGGSAECDTIP  
GRQCMASCFLLKQFDDVLIYLSNFSKSYFYNDIDFNFNAAQAKAATGNTSEGEAFLLIQ  
SEKMKNDYIYLSWLARCYIMNKKPRLAWELYLKMETSSESFSLQLIANDCYKMGQFYYS  
AKAFDVLRLDPNPEYWEGRGACVGFQMIAGREPKEITLREVLHLLRSTGNTQVEYMI  
RIMKKWAKENRVSI

>sp|Q9P2H3|IFT80\_HUMAN Intraflagellar transport protein 80 homolog OS=Homo sapiens  
GN=IFT80 PE=1 SV=3

MRLKISLLKEPKHQELVSCVGWTTAEELYSCSDHQIVKWNLLTSETTQIVKLPDDIYPI  
DFHWFPSKSLGVKKQTQAESFVLTSDDGKFHLISKLRVEKSVEAHCGAVLAGRWNYEGTA  
LVTVGEDGQIKIWSKTGMLRSTLAQQGTPVYSVAWGPDSEKVLTYAGKQLIIKPLQPNAK  
VLQWKAHDGIIKVDWNSVNDLILSAGEDCKYKVDWSYGRPLYNSQPHEHPITSVAWAPD  
GELFAVGSFHTLRLCDKTGWSYALEKPNTGSIFNIAWSIDGTQIAGACGNHVVFAHVVE  
QHWKWNFQVTLTKRRAMQVRNVLNDAVDLLEFRDRVIKASLNYAHLVVSTSLQCYVFST  
KNWNTPIIFDLKEGTVSLILQAERHFLLDVGSSIIYLSYEGRFISSPKFPGMRDILNAQ  
TVSLSNDTIAIRKADAKIIFLFEASTGKPLGDGKFLSHKNEILEIALDQKGLTNDRKIA  
FIDKNRDLCTSVKRFQKEEQIKLGTMVHTLAWNDTCNILCGLQDTRFIVWYYPNTVYV  
DRDILPKTLYERDASEFSKNPHIVSFVGNQVTIRRADGSLVHISITPYPAILHEYVSSSK  
WEDAVRLCRFVKEQTMWACLAAMAVANRDMTTAEIAYAAIGEIDKVQYINSIKNLPKES  
KMAHILLFSGNIQEAIEVLQAGLVYQAIQININLYNWERALELAVKYKTHVDTVLAYRQ  
KFLETGKQETNKRYLHYAEGLDWEKIKAKIEMEITKEREQSSSSQSSKSIGLKP

>sp|Q8TDY8|IGDC4\_HUMAN Immunoglobulin superfamily DCC subclass member 4 OS=Homo sapiens  
GN=IGDCC4 PE=1 SV=1

MARGDAGRGRGLLALTFCLLAARGELLPQETTVELSCGVGPLQVILGPEQAAVLNCSLG  
AAAAGPPTRVTWSKDGDTLLEHDLHLPLNGSLWLSQPLAPNGSDESVEAVGVIEGNYS  
CLAHGPLGLVASQTAVVKLATLADFSHPESQTVEENGARTFECHIEGLPAPIITWEKDQ  
VTLPEEPRLIVLPNGVLQILDVQESDAGPYRCVATNSARQHFSQEALLSVAHRGSLASTR  
GQDVVIVAAPENTTVVSGQSVVMCEVASADPTPFVSWVRQDGKPISTDVIVLGRTNLLIA  
NAQPWHSVGVVCRANKPRTRDFATAAAELRVLAAPITQAPEALSRTASTARFVCRASG  
EPRPALRWLHNGAPLRPNGRVKVQGGGSLVITQIGLQDAGYYQCVAENSAGMACAAASL  
AVVVREGLPSAPTRVTATPLSSSAVLVAWERPEMHSEQIIGFSLHYQKARGMDNVEYQFA  
VNNDTTELQVRDLEPNTDYEFYVVAYSQLGASRTSTPALVHTLDDVPSAAPQLSLSSPNP  
SDIRVAWLPLPPSLNQGQVVKYKIEYGLGKEDQIFSTEVRGNETQLMLNSLQPNKVYRVR  
ISAGTAAGFGAPSQVMHHRTPSMHNQSHVPFAPAELKVQAKMESLVVSWQPPPHPTQISG  
YKLYWREVGAEEEANGDRLPGGRGDQAWDVGVPVRLKKKVKQYELTQLVPGRLYEVKLVAF  
NKHEDGYAAVWKGKTEKAPAPDMPIQRGPPLPPAHVHAESNSSTSILRWKKPDFTTVKI

VNYTVRFSPWGLRNASLVITYTSSGEDILIGGLKPFTKYEFQVSHGVDMDGPFQSVVER  
STLPDRPSTPPSDLRLSPLTPSTVRLHWCPTPEPNGEIVEYLILYSSNHTQPEHQWTLT  
TQGNIFSAEVHGLESDTRYFFKMGARTEVGPFPFRLQDVITLQEKLSDSLDMHVSVTGII  
VGVCLGLLCLLACMCAGLRSPHRESLPLSSTATPGNPALYSRARLGPPSPAAHELES  
LVHHPQDWSPPPSDVEDRAEVHSLMGGGVSEGRSHSKRKISWAQPSGLSWAGSWAGCEL  
PQAGPRPALTRALLPPAGTGQTLTLLQALVYDAIKGNRKKSPACRNQVEAEVIVHSDFS  
ASNGNPDHLQDLEPEDPLPEAPDLISGVGDPGQGAAWLDRELGGCELAAPGPDRLTCL  
PEAASASCSYPDLQPGEVLEETPGDSCQLKSPCPLGASPLRSPVSSSA

>sp|Q6UWQ7|IGFL2\_HUMAN Insulin growth factor-like family member 2 OS=Homo sapiens GN=IGFL2  
PE=2 SV=1

MVPRIFAPAYVSVCLLLCPREVIAPAGSEPWLCQPAPRCGDKIYNPLEQCCYNDAIVSL  
SETRQCGPPCTFWPCFELCCLDSFGLTNDFVVKLVQGVNSQCHSSPISSKCESRRRFP

>sp|Q5DX21|IGS11\_HUMAN Immunoglobulin superfamily member 11 OS=Homo sapiens GN=IGSF11  
PE=2 SV=3

MTSQRSPALPLLLSLHGVAASLEVSESPGSIQVARGQPAVLPTFTTSAALINLNVIM  
VTPLSNANQPEQVILYQGGQMFAGAPRFHGRVGFGTGMPATNVSIFINNTQLSDTGTYQC  
LVNNLPDIGGRNIGVTGLTVLVPPSAPHCQIQGSQDIGSDVILLCSSEEGIPRPTYLWEK  
LDNTLKLPTATQDQVQGTVTIRNISALSSGLYQCVASNAIGTSTCLLDLQVISPPRNI  
GLIAGAIGTGAVIIIFCIALILGAFFYWRSKNKEEEEEIPNEIREDDLPPKSSAKAFH  
TEISSDNNTLTSSNAYNSRYWSNPKVHRNTESVSHFSDLGQSFSFHSGNANIPSIYAN  
GTHLVPGQHKTLLVTANRGSSPQVMSRNGSVSRKPRPPHTSYTISHATLERIGAVPVM  
VPAQSRAGSLV

>sp|Q969P0|IGSF8\_HUMAN Immunoglobulin superfamily member 8 OS=Homo sapiens GN=IGSF8 PE=1  
SV=1

MGALRPTLLPPSLPLLLLLMLGMGCWAREVLVPEGPLYRVAGTAVSISCNVTGYEGPAQQ  
NFEWFLYRPEAPDTALGIVSTKDTQFSYAVFKSRVVAGEVQVQRLQGDAVVLKIARLQAQ  
DAGIYECHTPSTDTRYLGSYSGKVELRVLPDVLQVSAAPPGRGRQAPTSPPRMTVHEGQ  
ELALGCLARTSTQKHTHLAVSFGRSVPEAPVGRSTLQEVVGIRSDLAVEAGAPYAERLAA  
GELRLGKEGTDTRYRMVVGGAQAGDAGTYHCTAAEWIQPDGSWAQIAEKRAVLAHVDVQT  
LSSQLAVTVGPGERRIGPGEPLLELCNVSGALPPAGRHAAYSVGWEMAPAGAPGGRLLVA  
QLDTEGVGSLGPGYEGRHIAEKVASRTYRLLEAARPGDAGTYRCLAKAYVRGSGTRLR  
EAASARSRPLPVHVREEGVLEAVAWLAGGTVYRGETASLLCNISVRGGPPGLRLAASWW  
VERPEDGELSSVPAQLVGGVGQDGAELGVRPGGPVSVELVGPRSHRLRLHSLGPEDEG  
VYHCAPSAWVQHADYSWYQAGSARSGPVTVPYPMHALDTLFFVPLLVGTGVALVTGATVLG  
TITCCFMKRLRKR

>sp|Q14623|IHH\_HUMAN Indian hedgehog protein OS=Homo sapiens GN=IHH PE=1 SV=4

MSPARLRPRLHFCLVLLLLLVPAAWGCGPGRVVGSRRRPPRKLVLPLAYKQFSPNVPEKT  
LGASGRYEGKIARSSERFKELTPNYPDIIFKDEENTGADRLMTQRCKDRLNSLAISVMN  
QWPGVKLRVTEGWDEGHHSSESLHYEGRAVDITTSDDRDRNKYGLLARLAVEAGFDWVYY  
ESKAHVHCSVKSEHSAAAKTGCGFPAGAQRLESGARVALSAVRPGDRVLAMGEDGSPTF  
SDVLIFLDREPHRLRAFQVIETQDPPRRLALTPAHLFTADNHTEPAAFRATFASHVQP  
GQYVLVAGVPGLQPARVAAVSTHVALGAYAPLTKHGTLVVEDVVASCFAAVADHHLAQLA  
FWPLRLFHSLAWGSWTPGEGVHWYPQLLYRLGRLLLEEGSFHPLGMSGAGS



>sp|Q5VVH5|IKBP1\_HUMAN Interleukin-1 receptor-associated kinase 1-binding protein 1  
OS=Homo sapiens GN=IRAK1BP1 PE=1 SV=1

MSLQKTPPTRVFVELVPWADRSRENNLASGRETLPLGRHPLSSTQAQTATREVQVSGTSE  
VSAGPDRAQVVVRVSSTKEAAAEAKSVCCRLLDYITQSLQQQGVQAENITVTKDFRRVEN  
AYHMEAEVCITFTEFGKMQNICNFLVEKLDSSVVISPPQFYHTPGSVENLRRQACLVAVE  
NAWRKAQEV CNLVGGQTLGKPLLIKEETKEWEGQIDDHQSSRLSSSLTVQQKIKSATIHA  
ASKVFITFEVKGKEKRKKHL

>sp|Q9BYH8|IKBZ\_HUMAN NF-kappa-B inhibitor zeta OS=Homo sapiens GN=NFKBIZ PE=1 SV=1

MIVDKLLDDSRGGEGLRDAAGGCLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAP  
GSPGSDSSDFSSASSVSSCGAVESRSRGGAERQPVPEPHMGVGRQQRGPFQGVVRKNSV  
KELLLHIRSHKQKASGQAVDDFKTQGVNIEQFRELKNTVSYSGRKGPDSLSDGPACKRP  
ALLHSQFLTTPPTPGESMEDVHLNEPKQESSADLLQNIINIKNECSPVSLNTVQVSWL  
NPVVVPQSSPAEQCCDFHGGQVFSPPQKCQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP  
HYTHKPTLEYSPPFIPPQSPAYEPNLFDPESQFCPNQSLVSLLDGQRESENIANPMQTS  
SSVQQQND AHLHSFMMPSACEAMVGHMASDSSNTSLPFSNMGNPMNTTQLGKSLFQW  
QVEQEESKLANISQDQFLSKDADGDTFLHIAVAQRRALSYVLARKMNALHMLDIKEHNG  
QSAFQVAVANQHILIVQDLVNIGAQVNTTDCWGRTPLHVCAEKGHSQVLQAIQKGAVGSN  
QFVDLEATNYDGLTPLHCAVIAHNAVVELQRNQPHSPEVQELLLKNKSLVDTIKCLIQ  
MGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELPSCLSFVNAKAYNGNTALHVAASLQ  
YRLTQLDAVRLMRKGADPSTRNLENEQPVHLVPDGPVGEQIRRILKGSIQQRAPPY

>sp|Q70UQ0|IKIP\_HUMAN Inhibitor of nuclear factor kappa-B kinase-interacting protein  
OS=Homo sapiens GN=IKBIP PE=1 SV=1

MSEVKSRRKSGPKGAPAAEPGRSEGGKTPVARSSGGGWADPRTCLSLLSLGTCLGLAW  
FVFQQSEKFAKVENQYQLLKLETNEFQQLQSKISLISEKWQKSEAIMEQLKSFQIIAHLK  
RLQEEINEVKTWSNRITEKQDILNNSLTLSQDITKVDQSTTSMAKDVGLKITSVKTDIR  
RISGLVTDVISLTDVSQELNIEKVEKNTVKNIGDLLSSSIDRTATLRKTASENSQRIN  
SVKKTLTTELKSDFDKHTDRFLSLEGDRAKVLKTVTFANDLKPKVYNLKKDFSRLEPLVND  
LTLRIGRLVTDLLQREKEIAFLSEKISNLTIVQAEIKDIKDEIAHISDMN

>sp|O14920|IKKB\_HUMAN Inhibitor of nuclear factor kappa-B kinase subunit beta OS=Homo  
sapiens GN=IKBB PE=1 SV=1

MSWSPSLTTQTCGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPNRERWCL  
EIQIMRRLTHPNVVAARDVPEGMQN LAPNDLP LLAMEYCQGGDLRKYL NQFENCCLREG  
AILTLLSDIASALRYLHENRIIHRDLKPENIVLQQGEQRLIHKIIDLGYAKELDQGS LCT  
SFVGT LQYLAPELLEQQKYTVTVDYWSFGTLAFECITGFRPFLPNWQPVQWHSKVRQKSE  
VDIVVSED LNGTVKFSSSLPYPNNLNSVLAERLEKWLQLMLMWHPRQRGTDP TYGPNGCF  
KALDDILNLKLVHILNMVTGTIHTYPVTEDESLSLKARIQQDTGIPEEDQELLQEAGLA  
LIPDKPATQCISDGKLNEGHTLMDLVFLFDNSKIT YETQISPRQPESVSCILQEPKRN  
LAFFQLRKVWGQVWHSIQTLKEDCNRLQQGQRAAMNLLRNNSCLSKMKNMSMASMSQQLK  
AKLDFFKTSIQIDLEKYSEQTEFGITSDKLLAWREMEQAVELCGRENEVKLLVERMMAL  
QTDIVDLQRSPMGRKQGGTLDLEEQARELYRRLREKPRDQRTEGDSQEMVRLLLQAIQS  
FEKKVRVIY TQLSKTVVCKQKALELLPKVEEVVSLMNEDEKTVVRLQEKRQKELWNLLKI  
ACSKVRGPVSGSPDSMNASRLSQPGQLMSQPSTASNSLPEPAKKSEELVAEAHNLC TLLE  
NAIQD TVREQDQSFTALDWSWLQTEEEHSCLEQAS

>sp|Q13422|IKZF1\_HUMAN DNA-binding protein Ikaros OS=Homo sapiens GN=IKZF1 PE=1 SV=1

MDADEGQDMSQVSGKESPPVSDTPDEGDEPMPIPEDLSTTSGGQQSSKSDRVVASNVKVE  
TQSDEENGRACEMNGEECAEDLRMLDASGEKMNGSHRDQGSSALSGVGGIRLPNGKCLKCD  
ICGIICIGPNVLMVHKRSHTGERPFQCNQCGASFTQKGNLLRHIKLHSGEKPFKCHLCNY  
ACRRRDALTGHLRTHSVGKPHKCGYCGRSYKQRSSLEEKKERCHNYLESMLPGTLYPVI  
KEETNHSEMAEDLCKIGSERSLVLDRLASNAKRKSSMPQKFLGDKGLSDTPYDSSASYE  
KENEMMKSHVMDQAINNAINYLGAESLRPLVQTPPGGSEVVPVISPMYQLHKPLAEGTPR  
SNHSAQDSAVENLLLLSKAKLVPSEREASPSNSCQDSTDTESNNEEQRSGLIYLTNHIAP  
HARNGLSLKEEHraydLLRAAENSQDALRVVSTSGEQMKVYKCEHCRVFLDHVMTIH  
MGCHGFRDPFECNMCGYHSQDRYEFSSHITRGEHRFHMS

>sp|Q8NEV9|IL27A\_HUMAN Interleukin-27 subunit alpha OS=Homo sapiens GN=IL27 PE=1 SV=2

MGQTAGDLGWRLSLLLLPLLLVQAGVWGFP RPQPQLSLQELRREFTVSLHLARKLLSE  
VRGQAHRFAESHLPGVNLVLLPLGEQLPDVSLTFQAWRRLSDPERLCFISTTLQPFHALL  
GGLGTQGRWTNMERMQLWAMRLDLRDLQRHLRFQVLAAGFNLPEEEEEEEEEEEEEERKGL  
LPGALGSALQGPAQVSWPQLLSTYRLLHSLVLVSRVRELLLLSKAGHSVWPLGFPTLS  
PQP

>sp|P01589|IL2RA\_HUMAN Interleukin-2 receptor subunit alpha OS=Homo sapiens GN=IL2RA PE=1  
SV=1

MDSYLLMWGLLTfIMVPGCQAE LCDDDPPEIPHATFKAMAYKEGTM LNCECKRGFRRIKS  
GSLYMLCTGNSSHSWDNQCCTSSATRN TTQVTPQPEEQKERKTTEMQSPMQPVDQAS  
LPGHCREPPPWENEATERIYHFVVGQMVYYQCVQGYRALHRGPAESVCKMTHGKTRWTQP  
QLICTGEMETSQFPGEKQPASPEGRPESETSLVTTTDFQIQTEMAATMETSIFTTEYQ  
VAVAGCVFLLISVLLLSGLTWQRRQRKSRRTI

>sp|Q6EBC2|IL31\_HUMAN Interleukin-31 OS=Homo sapiens GN=IL31 PE=2 SV=1

MASHSGPSTSVLFLFCLGGLASHTLPVRLRP SDDVQKIVEELQSLSKMLLKDV EEEK  
GVLVSQNYTLPCSPDAQPPNNIHSPAIRAYLKTIRQLDNKSVIDEIIEHLDKLIFQDAP  
ETNISVPTDTHECKRFILTISQFSECMDLALKSLTSGAQQATT

>sp|P24001|IL32\_HUMAN Interleukin-32 OS=Homo sapiens GN=IL32 PE=1 SV=3

MCFPKVLSDDMKKLKARVMMLPTSAQGLGAWVSACD TEDTVGHLGPWRDKDPALWCQLC  
LSSQHQAIERFYDKMQNAESGRGQVMSSLA ELEDDFKEGYLETVAAYYEEQHPELTPLE  
KERDGLRCRGNRSPVPDVEDPATEEPGESFC DKVMRWFQAMLQRLQTWWHGVLA WVKVKV  
VALVHAVQALWKQFQSFCCSLSELFMSSFQSYGAPRGDKEELTPQKCEPQSSK

>sp|P11142|HSP7C\_HUMAN Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1  
SV=1

MSKGPVAGIDLGT TYSCVGVFQHGKVEIIANDQGNRTTPSYAFTDTERLIGDAAKNQVA  
MNPTNTVFD AKRLIGRRFDDAVVQSDMKHWP FMVNDAGRPKVQVEYKGETKSFYPEEVS  
SMVLTKMKEIAEAYLGKTVTN AVVTVPAYFNDSQRQATKDAGTIAGLNLRIINEPTAAA  
IAYGLDKKVGAE RNLVIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNH  
FIAEFKRKHKKDIS ENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA  
RFEELNADLFRGTLDPVEKALRD AKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELN  
KSINPDEAVAYGA AVQAAILSGDKSENVQDLLLLDV TPLSLGIETAGGVMTVLIKRN TTI  
PTKQTQTFTTYS DNQPGVL IQVYEGERAMTKDN NLLGKFELTGIPPAPRGVPQIEVTFDI  
DANGILNVSAVDKSTGKENKITITNDKGRLSKEDI ERMVQEA EKYKA EDEKQRDKVSSKN  
SLESYAFNMKATVEDEKLQGKINDEDKQK ILDKCNEIINWLDKNQTAEKEEFEHQQKELE  
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

>sp|Q99081|HTF4\_HUMAN Transcription factor 12 OS=Homo sapiens GN=TCF12 PE=1 SV=1

MNPQQQRMAAIGTDKELSDLLDFSAMFSPPVNSGKTRPTTLGSSQFSGSGIDERGGTTSW  
GTSGQSPSPSYDSSRGFTDSPHYSDHLNDSRLGAHEGLSPTPFMNSNLMGKTSESGSFSLY  
SRDTGLPGCQSSLLRQDLGLGSPAQLSSSGKPGTAYYSFSATSSRRRPLHDSAALDPLQA  
KKVRKVPPGLPSSVYAPSPNSDDFNRESYSPSPKPPTSMFASTFFMQDGTNSSLWSS  
SNGMSQPGFGGILGTSTSHMSQSSSYGNLHSHDRLSYPPHSVSPTDINTSLPPMSSFHRG  
STSSSPYVAASHTPPINGSDSILGTRGNAAGSSQTGDALGKALASIYSPDHTSSSFPSNP  
STPVGSPSPLTGTSQWPRPGGQAPSSPSYENSLHSLQSRMEDRLDRLDDAIHVLNRHAVG  
PSTSLPAGHSDIHSLLGPSHNAPIGSLNSNYGGSSLVASSRSASVMGTHREDSVSLNGNH  
SVLSSTVTTSSTDNLNHTQENYRGGLQSQSGTVVTTEIKTENKEKDNLHEPPSSDDMKS  
DDESSQKDIKVSSRGRTSSTNEDEDLNPEQKIEREKERRMANNARERLRVRDINEAFKEL  
GRMCQLHLKSEKPQTKLLILHQAVAVILSLEQQVRERNLNPKAACLRREEEKVSAVSAE  
PPTTLPGTHPGLSETNPMGHM

>sp|P35452|HxD12\_HUMAN Homeobox protein Hox-D12 OS=Homo sapiens GN=HOXD12 PE=1 SV=3

MCERSLYRAGYVGSLLNLQSPDSFYFSNLRPNGQLAALPPIISYPRGALPWAATPASCAP  
AQPAGATAFGGFSQPYLAGSGPLGLQPPTAKDGPPEQAKFYAPEAAAGPEERGRTRPSFA  
PESSLAPAVAALKAAYDYAGVGRATPGSTLLQGAPCAPGFKDDTKGPLNLMNTVQAAG  
VASCLRPSLPDGLPWGAAPGRARKKRKPYTKQQAELNEFLVNEFINRQKRKELSNRLN  
LSDQQVKIWFQNRMRMKKRVVLRQALALY

>sp|P31249|HxD3\_HUMAN Homeobox protein Hox-D3 OS=Homo sapiens GN=HOXD3 PE=1 SV=3

MLFEQGGQALELPECTMKAAYYENPGLFGGYGYSKTTDTYGYSTPHQYPPPPAAASSLD  
TDYPGSACSIQSSAPLRAPAHKGAELNGSCMRPGTGNSQGGGGSQPPGLNSEQQPPQPP  
PPPPTLPPSSPTNPGGGVPAKKPKGGPNASSSSATISKQIFPWMKESRQNSKQKNSCATA  
GESCEDKSPGPASKRVRTAYTSAQLVELEKEFHFNRYLCRPRRVEMANLLNLTERQIKI  
WFQNRMRKYKDKQAKGILHSPASQSPERSPPLGGAAGHVAYSGQLPPVPGLAYDAPSPP  
AFAKSQPNMYGLAAYTAPLSSCLPQQKRYAAPEFEPHPMASNGGGFASANLQGSPPVYVG  
NFVESMAPASGPVFNGLHLSHPSSASVDYSCAAQIPGNHHHGPCDPHPTYTDLSAHHSSQ  
GRLPEAPKLTHL

>sp|Q14627|I13R2\_HUMAN Interleukin-13 receptor subunit alpha-2 OS=Homo sapiens GN=IL13RA2  
PE=1 SV=1

MAFVCLAIGCLYTFLLISTTFGCTSSSDTEIKVNPPQDFEIVDPGYLGYLQLWQPPLSLD  
HFKECTVEYELKYRNIGSETWKTIIITKNLHYKDGFDLNGKIEAKIHTLLPWQCTNGSEVQ  
SSWAETTYWISPQIGIPETKVQDMDCVYYNWQYLLCSWKPGIGVLLDTNYNLFYWYEGLDH  
ALQCVDYIKADGQNICGRFPYLEASDYKDFYICVNGSSENKPIRSSYFTFQLQNIVKPLP  
PVYLTFTRESSCEIKLKWSIPLGPIPARCFDYEIEIREDDTTLVTATVENETYTLKTNE  
TRQLCFVVRSKVNIYCSDDGIWSEWSDKQCWEGEDLSKKTLLRFLWLPFGFILILVIFVTG  
LLLRKPNTYPKMIEFFCDT

>sp|Q8NFR9|I17RE\_HUMAN Interleukin-17 receptor E OS=Homo sapiens GN=IL17RE PE=1 SV=1

MGSSRLAALLPLLLIVIDLSDSAGIGFRHLPHWNTRCPLASHTDSDFTGSSAYIPCRTW  
WALFSTKPWCVRVWHCSRCLCQHLLSGGSLQRGLFHLLVQSKKSSTFKFYRRHKMPAP  
AQRKLLPRRHLSEKSHHISIPSPDISHKGLRSKRTQPSDPETWESLPRLDSQRHGGPEFS  
FDLLPEARAIRVTISSGPEVSVRLCHQWALECEELSSPYDVQKIVSGGHTVELPYEFLLP  
CLCIEASYLQEDTVRRKKCPQSWPEAYGSDFWKSVHFTDYSQHTQMVMALTLRCPLKLE  
AALCQRHDWHTLCKDLPNATARESDGWYVLEKVDLHPQLCFKFSFGNSSHVECPHQTGSL

TSWNVSMDTQAQQLILHFSSRMHATFSAAWSLPGLGQDTLVPPVYTVSQARGSSPVSLDL  
IIPFLRPGCCVLVWRSDVQFAWKHLLCPDVSYRHLGLLILALLALLTLLGVVLALTCRRP  
QSGPGPARPVLLLHAADSEAQRRLVGALAEELLRAALGGGRDVIVDLWEGRHVARVGPLPW  
LWAARTRVAREQGTVLLWSGADLRPVSGDPRAAPLLALLHAAPRLLLLLAYFSRLCAK  
GDIPPLRALPRYRLRLDLPRLLRALDARPF AEATSWGRLGARQRRQSRLELC SRLEREA  
ARLADLG

>sp|Q969J5|I22R2\_HUMAN Interleukin-22 receptor subunit alpha-2 OS=Homo sapiens GN=IL22RA2  
PE=1 SV=1

MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNLQWQPGRALTGNSSVY  
FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL  
TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA  
PNLPYRYQKEKNVSI EDDYELLRYVFI INNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV  
AEIYQPMLDRRSQRSEERCVEIP

>sp|P14902|I2301\_HUMAN Indoleamine 2,3-dioxygenase 1 OS=Homo sapiens GN=IDO1 PE=1 SV=1

MAHAMENSWTISKEYHIDEVGFALPNPQENLPDFYNDWMFI AKHLPDLIESGQLRERVE  
KLNMLSIDHLTDHKSQRLARLVLCITMAYVWGKGHGDVRKVLPRNIAVPYCQLSKKLEL  
PPILVYADCVLANWKKKDPNKPLTYENMDVLF SFRDGDCKSGFFLVSLLEIAAASAIKV  
IPTVFKAMQMQRDTLLKALLEIASCLEKALQVFHQIHDHVNPKAFFSVLRIYLSGWKGN  
PQLSDGLVYEGFWEDPKEFAGGSAGQSSVFQCFDVLLGIQQTAGGGHAAQFLQDMRRYMP  
PAHRNFLCSLESNPVREFVLSKGDAGLREAYDACVKALVSLRSYHLQIVTKYILIPASQ  
QPKENKTS EDPKLEAKGTGGTDL MNFLKTVRSTTEKSLLKEG

>sp|Q8WX77|IBPL1\_HUMAN Insulin-like growth factor-binding protein-like 1 OS=Homo sapiens  
GN=IGFBPL1 PE=2 SV=1

MPRLSLLLPLLLLLLLPLLPPLSPSLGIRDVGGRRPKCGPCRPEGCPAPAPCPAPGISAL  
DEGCCARCLGAEGASCGRAGRCGPGLVCASQAAGAAPEGTGLCVCAQRGTVC GSDGR  
SYPSVCALRLRARHTPRAHPGHLHKARDGPCEFAPVVVVPPRSVHNVTGAQVGLSCEVRA  
VPTPVITWRKVTKSPEGTQALEELPGDHVNIAVQVRGGPSDHEATAWILINPLRKEDEGV  
YQCHAAANMVGEAESHTVTVLDSLKYRSFHFAPDDRM

>sp|Q9P2D0|IBTK\_HUMAN Inhibitor of Bruton tyrosine kinase OS=Homo sapiens GN=IBTK PE=1  
SV=3

MSSPMPDCTSKCRSLKHALDVLSVVTKGSENQIKAF LSSH CYNAATIKDVFG RNALHLVS  
SCGKKGVLDWLIQKGVDLLVKDKESGWTALHRSIFYGHIDCVWSLLKHGVS LYIQDKEGL  
SALDLVMKDRPTHVVFKNTPDVTWGDNTNFTLGHGSQNSKHHP ELVDLFSRSGIYIK  
QVVLCKFHSVFLSQKGQVYTCGHGPGGRLGHGDEQTCLVPRLVEGLNGHNC SQVAAAKDH  
TVVLTEDGCVYTFGLNIFHQLGIIPPPSSCNVPRQIQAKYLKGRTIIIGVAAGR FHTVLWT  
REAVYTMGLNGGQLGCLLDPNGEKCVTAPRQVSALHHKDIALSLVAASDGATVCVTTRGD  
IYLLADYQCKKMASKQLNLKKVLVSGGHMEYKVDPEHLKENG GQKICILAMDGAGR VFCW  
RSVNSSLKQCRWAYPRQVFISDIALNRNEILFVTQDGEGFRGRWFEEKRSSEKKEILSN  
LHNSSSDVSYVSDINSVYERIRLEKLTFAHRAVSVSTDPSCGNFAILQSDPKTSLYEIPA  
VSSSSFFEEFGKLLREADEMDSIHDVTFQVGNRLFPAHKYILAVHSDF FQKFLSDGNTS  
EFTDIYQKDEDSAGCHLFVVEKVHPDMFEYLLQFIYTDTCDFLTHGFKPRIHLNKNPEEY  
QGTLNSHLNKVN FHEDDNQKSAFEVYKSNQAQTVSERQKSKPKSCKKGKNI REDDPVRML  
QTVAKKFDFS NLSSRLDGVRFENEKINVI AKNTGNKLKLSQKKCSFLCDVTMKSVDGKEF  
PCHKCVLCARLEYFHSMLSSSWIEASSCAALEMPIHSDILKVILDYLYTDEAVV IKESQN

VDFICSVLVVADQLLITRLKEICEVALTEKLTAKNAAMLEFAAMYSAKQLKLSCLQFIG  
LNMAALLEARSLDVLSDGVLDLSEFYRKMIAMDRRIVITPYQDGPDISYLEVEDGDIFL  
KEEINMEQNHSETMFKAKTKAKKKPRKRSOSSGGYNLSDI IQSPSSTGLLKSGKTNSVE  
SLPELLTSDSEGSYAGVGSPRDLQSPDFTTGFSKIEAKVKPYVNGTSPVYSREDLKPW  
EKSPILKISAPQIPSNRIDTSSASWAGSFSPVSPVVDLRTIMEIEESRQKCGATPK  
SHLGKTVSHGVKLSQKQRKMIALTTKENNSGMNSMETVLFPSKAPKPVNAWASSLHSVS  
SKSFRDFLLEKKSVTSHSSGDHVKKVSFKGIENSQAPKIVRCSTHGTGPEGNHISDLP  
LLDSPNPWLSSSVTAPSMVAPVTFASIVEEELQQEAALIRSREKPLALIQIEEHAIQDLL  
VFYEAFGNPEEFVIVERTPQGPLAVPMWNKHGC

>sp|Q9Y2F5|ICE1\_HUMAN Little elongation complex subunit 1 OS=Homo sapiens GN=ICE1 PE=1  
SV=5

MMPGETHSAAPGTAADLSRCQGCASLQQNLNEYVEALITLKQKIINTDNLLTEYQKKCDE  
LQFARRENSNLHHQVEEMLQKISPLQKCQEELGSLKAELEEKKSSSLKLYQDTHQEYARVK  
EECLKSDAQKKKLEAKVKKLQEAQVKTQDFKQLRNEKKILEKEFKKTQERLDEFSSKQKN  
EKELRHIGTQISSDSYGSIDKRKVKLLKELWLCVNTTHRLPGEGSRCVPEKPAKAITSS  
RVPGEDGTLPTQGSPLRTSNVQTCLTKLSMEIKEDFLCQNVKQSSSGTNCSSDHVFNE  
NGNLEVLVQSHRDGGSTEFVDHDFDEDLQAAIDFFKLPPLLSPVSPPPMSSPHPGS  
LPSSFAPETYFGEYTDSSDNDVQLRNSAECVSEDDTTESQNYFGSLRKNKSGTWEEKP  
KSHEAIQALNTWEVNKVTTSGLETFTATLRESSATHSLVGEKHWTTASRMSDRKRDILH  
ETKTQMEVREMDKSVQTEKTIHKLTRGLCIERLSASPAQEKAAPGKSELCSPLGKRPL  
NELMESEGKTVLSKMMGSPKSEFTKWTRINEITSEPDRITVSGHFHRLSRELEKEKEDTQ  
GFTLGESPESEDDDSGDGMDVAGLDIETSFSSSSTLVALSVGSPNPQSSSGLDCGNDTDIT  
TKVFSTEPHHSEHLQTKTLNLHLQSEPPECSIGGNNLENSLCALSPELGASNFNDQKS  
SGIEYTKVVKGLTKIHSLPRSVFMKATKDGQCESQDPRIELTLNKPDTSLIGSQAALIK  
SGLGFVKSTSWHHSDDLKKGGEESLRAKSEHEQKTSHLQKAMPFLQNRGPTPKPDLLRE  
NNNPVEFKTTASVLPNQVSVITKQTRPEKVQSAKLEHLRPHRVEPTLVTENSNGKTGMST  
VAKCDGERDDTTQNI TEVAAVKSI SPEVSASRRKLDNFSPGGSSPVENSDCSTNSRLSFS  
PENILIQNQDIVREAAVQGDGQKQRPQATDLDSSTHGSEMLPATEVTVSGGFSVEETS  
CGDTGRSGGEALAVANDSTSTPQANGLWKLKSTTPGGALPECFGTTDTTFSSAFCKRHG  
ETQDTSQSSLPGLHCYTGIREGGDTEVESEAFSCSEGSEQDAPDDSQKNLGDTDAAV  
AEVRPSLEVGYLTSALQDFNISTFSELDRLSTSEVVMFLESCQLGDYSSGDSVSECSSKG  
TLSEMNKELKASEIGEKYRKQPCEEETLGTCEEWIESEDDYSLKNTSQLTQCSLETLS  
EVLTKIRQELQTNSEDCNGKDTGSLLLLVNNNMTTENLKEKSPFRETTGSSSHASEPTP  
QAAALDTEGSSPISGMPQENPQSRPEARSDAGRQTDGGEEDLPEPVEPSALCSDSVMEP  
SIEQSSNCEAETTFQCQIATVTSEVINVLINKDQNLVIEKGDNWTIISGVAVLPHVDQVT  
LCDIPGDIPISQDQGELEAGCIPVTSAEKSPEASHTGPAFQEAPCGNNLSCPQEDVSSSG  
QSTNFDKSRLNRNPVKPSIWISSQIYDQNFETQIVASDHYYNSKLEPSGKNKNRSKISN  
KDQSNKPVKTSASSRVETHQSEVAQSFSGEKANTKTQRSQTQITLANADTSTPTDCSPDT  
LSKIRQEVGPPLPPLAPLIATPPRTSQPLSPLISSSSPSPASPVGQVSPFRETPVPPA  
MSPWPEDPRRASPPDPSPSAASASERVVPSPLQFCAATPKHALPVPGRLPCCASGHAA  
VGGPQENSVKILDTMYPELSARARTLNILKGNILQTRGPPADCKNLPGPASAMIGFKTIT  
SAATAFVKTGSSSGDCNQDKSRDLGTQQDSSGKRTLSTSTLRSKRLRLDTGSPEPETR  
GVTAEGIHKNLPGNLPPAEVATTNEERSCSSPAVSAVSQLPLSPKETVESHDKAIANALK  
KIAEFSFDLLPVIRSHVYVGNISKKPVMRDQEKEVVYEFSTTKHLAECLLHSELKI

QKISMDHNYIHLCRVYVGICRQLGDLERARLFCYSLLKEDFPESEKLTLFIANMWHDF  
LSQSVINKAMQLVARQRAKGEVLNCLRAFLNWEKNAPVDVGMVSKLLLTQLCPKTEFQ  
PSEKFGEDLSNTWEYIFAIDLCCCHKWIWTHDNIISKELWPVMDKWKYRKGHANIAY  
TPDIIIASILRLIGRLGQLGLEGFPSAVKNISSVIGMFIQHAHDEDIPWGIQLAAVYAL  
CDLSPSNPAEISKILEAWRREASKSVPSAIVSCLEEVSAALSTEELG

>sp|P54105|ICLN\_HUMAN Methylosome subunit pICln OS=Homo sapiens GN=CLNS1A PE=1 SV=1  
MSFLKSFPFPPGPAEGLLRQPDTEAVLNGKGLGTGLTYIAESRLSWLDGSGLGFSLEYPT  
ISLHALSRDRSDCLGEHLYVMVNAKFEEESKEPVADEEEEDSDDDEPITEFRFVPSDKS  
ALEAMFTAMCECQALHPDPEDESDDDYDGEEDVVEAHEQQGGDIPTFYTYEEGLSHLTAE  
GQATLERLEGMLSQSVSSQYNMAGVRTEDSIRDYEDGMEVDTTPTVAGQFEDADVDH

>sp|P50213|IDH3A\_HUMAN Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial  
OS=Homo sapiens GN=IDH3A PE=1 SV=1  
MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGDGIGPEISAAVMKIFDAAKAP  
IQWEERNVTAIQPGPGKWMIPSEAKESMDKNKMGLKGPLKTPIAAGHPMSMNLRLKTFDL  
YANVRPCVSIIEGYKTPYTDVNIIVTIRENTEGEYSIEHVIVDGVVQSIKLITEGASKRIA  
EFAFEYARNNHRNVTAVHKANIMRMSDGLFLQKCREVAESCKDIKFNMYLDTVCLNMV  
QDPSQFDVLVMPNLYGDILSDLCAGLIGGLGVTPSGNIGANGVAIFESVHGTPADIAGKD  
MANPTALLLSAVMMLRHMGLFDHAARIEAACFATIKDGKSLTKDLGGNAKCSDFTEEICR  
RVKDLD

>sp|P35475|IDUA\_HUMAN Alpha-L-iduronidase OS=Homo sapiens GN=IDUA PE=1 SV=2  
MRPLRPRAALLALLASLLAAPPVAPAEAPHLVHVDAAARALWPLRRFWRSTGFCPLPHSQ  
ADQYVLSWDQQLNLAYVGAVPHRGIKQVRTHWLELVTTTRGSTGRGLSYNFTHLDGYLDL  
LRENQLLPGFELMGASGHFTDFEDKQQVFEWKDLVSSLARRYIGRYGLAHVSKWNFETW  
NEPDHHDFFDNVSMTMQGFLNYYDACSEGLRAASPALRLGGPGDSFHTPPRSPLSWGLLRH  
CHDGTNFFTGEAGVRLDYISLHRKGARSSISILEQEKVVAQQIRQLFPKFADTPIYNDEA  
DPLVGWSLPQWRADVTYAAMVVKVIAQHQNLLANTTSAPFYALLSNDNAFLSYHPPHF  
AQRTLARFQVNNTRPPHVQLLRKPVLTAMGLLALLDEEQLWAEVSQAGTVLDSNHTVGV  
LASAHRPQGPADAWRAAVLIYASDDTRAHPNRSVAVTLRLRGVPPGPGLVYVTRYLDNGL  
CSPDGEWRRLGRPVPFTAQEQFRMRAAEDPVAAAPRPLPAGGRLTLRALRLPSLLLVHV  
CARPEKPPGQVTRLRALPLTQGQLVLVWSDEHVGSKCLWYIEIQFSQDGKAYTPVSRKPS  
TFNLFVFPDGTAVSGSYRVRALDYWARPGPFSDPVYPVLEVPVPRGPPSPGNP

>sp|Q9Y6M1|IF2B2\_HUMAN Insulin-like growth factor 2 mRNA-binding protein 2 OS=Homo sapiens  
GN=IGF2BP2 PE=1 SV=2  
MMNKLYIGNLSPAVTADDLRQLFGDRKLPLAGQVLLKSGYAFVDYPDQNWAIIRAIETLSG  
KVELHGKIMEVDYSVSKKLSRKIQIRNIPPHLQWEVLDGLLAQYGTVENVEQVNTDTET  
AVVNVTYATREEAKIAMEKLSGHQFENYSFKISYIPDEEVSSPSPQRAQRGDHSSREQG  
HAPGGTSQARQIDFPLRILVPTQFVGAIIGKEGLTIKNITKQTQSRVDIHRKENSAAEK  
PVTIHATPEGTSEACRMILEIMQKEADETKLAEEIPLKILAHNGLVGRIGKEGRNLKKI  
EHETGKITISSQLDLSIYNPERTITVKGTVEACASAEIEIMKKLREAFENDMLAVNQQA  
NLIPGLNLSALGIFSTGLSVLSPAGPRGAPPAAPYHPFTTHSGYFSSLYPHHQFGPFPH  
HHSYPEQEIVNLFIPTQAVGAIIGKKGAHIKQLARFAGASIKIAPAEGPDVSERMVITG  
PPEAQFKAQGRIFGKLKEENFFNPKEEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNLTS  
AEVIVPRDQTPDENEEVIVRIIGHFFASQTAQRKIREIVQQVKQEQKYPQGVASQRSK

>sp|Q13325|IFIT5\_HUMAN Interferon-induced protein with tetratricopeptide repeats 5  
OS=Homo sapiens GN=IFIT5 PE=1 SV=1

MSEIRKDTLKAILLELECHFTWNLLKEDIDLFEVEDTIGQQLEFLTTSRLALYNLLAYV  
KHLKGQNKDALECLEQAEEIIQQEHSDKEEVRSVLTWGNyawvyyHMDQLEEAQKYTGKI  
GNVCKKLSSPSNYKLECPETDCEKGWALLKFGGKYYQKAKAAFEKALEVEPDNPEFNIGY  
AITVYRLDDSDREGSVKSFSLGPLRKAVTLNPDNSYIKVFLALKLQDVHAAEAGEKYIEE  
ILDQISSQPYVLRYAAKFYRRKNSWNKALELLKKALEVTPSSFLHHQMGLCYRAQMIQI  
KKATHNRPKGDKLVDELISSAIFHFKAAMERDSMFAYTDLANMYAEGGQYSNAEDI  
FRKALRLENITDDHKHQIHYYHGRFQEFHRKSENTAIHHYLEALKVKDRSPLRTKLTSAL  
KKLSTKRKLCHNALDVQSLSALGFVYKLEGEKRQAAEYYEKAQKIDPENAEFLTALCELRL  
SI

>sp|A6NNB3|IFM5\_HUMAN Interferon-induced transmembrane protein 5 OS=Homo sapiens  
GN=IFITM5 PE=1 SV=1

MDTAYPREDTRAPTPSKAGAHTALTLGAPHPPPRDHLIWSVFSTLYLNLCCLGFLALAYS  
IKARDQKVVGDLAARRFGSKAKCYNILAAMWTLVPPLLLGLVVTGALHLARLAKDSAA  
FFSTKFDDADYD

>sp|P01569|IFNA5\_HUMAN Interferon alpha-5 OS=Homo sapiens GN=IFNA5 PE=1 SV=1

MALPFVLLMALVVLNCKSICSLGCDLPQTHSLSNRRTLMIMAQMGRI SPFSCLKDRHDFG  
FPQEEFDGNQFQKAQAI SVLHEMIQQTFNLFSTKDSSATWDETLLDKFYTELYQQLNDE  
ACMMQEVGVEDTPLMNVD SILTVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSAN  
LQERLRRKE

>sp|Q9POW0|IFNK\_HUMAN Interferon kappa OS=Homo sapiens GN=IFNK PE=1 SV=2

MSTKPDMIQKCLWLEILMGIFIAGTSLDCNLLNVHLRRVTWQNLRLHLSMSNSFPVECL  
RENIAFELPQEFLQYTQPMKRDIKAFYEMSLQAFNIFSQHTFKYWKERHLKQIQIGLDQ  
QAEYLNQCLEEDKNENEDMKEMKENEMKPSEARVPQLSSLELRRYFHRIDNFLKEKKYSD  
CAWEIVRVEIRRCLYFYKFTALFRRK

>sp|O00458|IFRD1\_HUMAN Interferon-related developmental regulator 1 OS=Homo sapiens  
GN=IFRD1 PE=1 SV=4

MPKNKKRNTPHRGSSAGGGSGAAAATAATAGGQHRNVQPFSDAS IETMSHC SGYSDP  
SSFAEDGPEVLDEEGTQEDLEYKLKGLIDLTDKSAKTRQAAL EGIKNALASKMLYEFIL  
ERRMTLTDSIERCLKKGKSDEQRAAALASVLCIQLGPGIESEEILKTLGPILKKIICDG  
SASMQARQTCATCFGVCCFIATDDITELYSTLECLENIFTKSYLKEKDTTVICSTPNTVL  
HISSLLAWTLLLTICPINEVKKKLEMHFHKLPSLLSCDDVNMRIAAGESLALLFELARGI  
ESDFFYEDMESLTQMLRALATDGNKHRAKVDKRKQRSVFRDVLRAVEERDFPTETIKFGP  
ERMYIDCWVKHTYDTFKEVLGSGMQYHLQSNEFLRNVFELGPPVMLDAATLKTMKISRF  
ERHLYNSAAFKARTKARSKCRDKRADVGEFF

>sp|P04553|HSP1\_HUMAN Sperm protamine P1 OS=Homo sapiens GN=PRM1 PE=1 SV=2

MARYRCCRSQSRSYRQRQSRRRRRRSCQTRRRAMCCRPYRPRCRRH

>sp|P54652|HSP72\_HUMAN Heat shock-related 70 kDa protein 2 OS=Homo sapiens GN=HSPA2 PE=1  
SV=1

MSARGPAIGIDLGTYSVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQV  
AMNPTNTIFDAKRLIGRK FEDATVQSDMKHWPFRV VSEGGPKPVQVEYKGETKTFFPEEI  
SSMVLTKMKEIAEAYLGKVHSAVITVPAYFNDSQRQATKDAGTITGLNVLRIINEPTAA  
AIAYGLDKKGCAGGEKNVLI FDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRM

VSHLAEEFKRKHKDIGNKRAVRLRTACERAKRTLSSSTQASIEIDSLYEGVDFYTSI  
TRARFEELNADLFRGTLEPVEKALRDAKLDKGQIQEIVLVGGSTRIPKIQKLLQDFNKG  
ELNKSINPDEAVAYGAQAAILIGDKSENVQDLLLDVTPLSLGIETAGGVMTPLIKRN  
TTIPTKQTQFTTYSNQS SVLVQVYEGERAMTKDNNLLGKFDLTGIPPAPRGVPQIEVT  
FDIDANGILNVTAAKSTGKENKITITNDKGRLSKDDIDRMVQEAERYKSEDEANRDRVA  
AKNALESYTYNIKTVEDEKLRGKISEQDKNKILDKCQEVINWLDNRQMAEKDEYEHKQK  
ELERV CNPIISKLYQGGPGGGSGGGSGASGGPTIEEVD

>sp|P34932|HSP74\_HUMAN Heat shock 70 kDa protein 4 OS=Homo sapiens GN=HSPA4 PE=1 SV=4

MSVVGIDLGFGSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNA  
KNTVQGFGRFHGRAFSDFVEAEKSNLAYDIVQLPTGLTGIKVTYMEERNFTTEQVTAM  
LLSKLKETAESVLKKPVVDCVSVPCFYTDAERRSVMDATQIAGLNCLRLMNETTAVALA  
YGIYKQDLPALEEKPRNVFVDMGHSAYQSVCAFNRGKLVLATAFDTTLGGRKFDEVL  
VNHFC EEFGKKYKLDIKSKIRALLRLSQECEKLKLM SANASDLPLSIECFMNDVDVSGT  
MNRGKFLEMCNDLLARVEPLRSVLEQTKLKEDIYAVEIVGGATRIPAVKEKISKFFGK  
ELSTTLNADEAVTRGCALQCAILSPAFAKVRFSITDVVPYPISLRWNSPAEEGSSDCEVF  
SKNHAAPFSKVLTFYRKEPFTLEAYYSSPDLPYPDPAIAQFSVQKVT PQSDGSSSKVKV  
KVRNVHGFISVSSASLVEVHKSEENEPMETDQNAKEEEKMQVDQEEPHVEEQQQTPA  
ENKAEESEMETSQAGSKDKMDQPPQAKKAKVKTSTVDLP IENQLLWQIDREMLNLYIEN  
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEK FVSEDDRNSFTLKLEDTENWLY  
EDGEDQPKQVYVDKLAELKNLGGPIKIRFQESEERPKLFEELGKQIQQMKI ISSFKNKE  
DQYDHLDAADMTKVEKSTNEAMEWMNKNLQNKQSLTMDPVVKSKEIEAKIKELTSTCS  
PIISKPKPKVEPPKEEQKNAEQNGPVDGQGNPGPQAAEQGTD TAVPSDSKLPEDID

>sp|Q9UBY9|HSPB7\_HUMAN Heat shock protein beta-7 OS=Homo sapiens GN=HSPB7 PE=1 SV=1

MSHRTSSTFRAERSFHSSSSSSSSSTSSASRALPAQDPPMEKALSMFSDDFGSMRPHS  
EPLAFPARPGGAGNIKT LGDAYEFAVDVRDFSPEDIIVTTSNNHIEVRAEKLAADGTVMN  
TFAHKCQLPEDVDPTSVTSALREDGSLTIRARRHPHTEHVQQTFRTEIKI

>sp|Q8TDB4|HUMMR\_HUMAN Protein MGARP OS=Homo sapiens GN=MGARP PE=1 SV=1

MYLRRRAVSKTLALPLRAPNPAPLGKDA SLRRMSSNRFPGSSGSNMIYYLVVGVTVSAGG  
YYAYKTVTSDQAKHTEHTNLKEKTKAEIHPFQGEKENVAETEKASSEAPEELIVEAEVV  
DAEESPSATVVVIKEASACPGHVEAAPETTAVSAETGPEVTDAAARETTEVNPETTPEVT  
NAALDEAVTIDNDKDTTKNETSDEYAELEENSPAESSAGDDLQEEASVGSEAASAQG

>sp|A0A0C4DH33|HV124\_HUMAN Immunoglobulin heavy variable 1-24 OS=Homo sapiens GN=IGHV1-24 PE=3 SV=1

MDCTWRILFLVAAATGTHAQVQLVQSGAEVKKPGASVKVSCKVSGYTLTELSMHWVRQAP  
GKGLEWMGGFDPEDGETIYAQKFQGRVTMTEDTSTD TAYMELSSLRSEDTAVYYCAT

>sp|P01743|HV146\_HUMAN Immunoglobulin heavy variable 1-46 OS=Homo sapiens GN=IGHV1-46 PE=1 SV=2

MDWTWRVFLCLAVAPGAHSQVQLVQSGAEVKKPGASVKVSCKASGYTFTSYMHWVRQAP  
GQGLEWMGIINPSGGSTSYAQKFQGRVTMTRTDSTSTVYME LSSLRSEDTAVYYCAR

>sp|P01817|HV205\_HUMAN Immunoglobulin heavy variable 2-5 OS=Homo sapiens GN=IGHV2-5 PE=1 SV=2

MDTLCSTLLLLTIPSWVLSQITLKESGPTLVKPTQTLTLCTFSGFSLSTSGVGVGWIRQ  
PPGKALEWLALIYWDDDKRYSPLKSRLTITKDTSKNQVVL TMTNMDPVDTATYYCAHR



>sp|AOA0B4J1V0|HV315\_HUMAN Immunoglobulin heavy variable 3-15 OS=Homo sapiens GN=IGHV3-15 PE=3 SV=1

MEFGLSWIFLAAILKGVQCEVQLVESGGGLVKPGGSLRLSCAASGFTFSNAWMSWVRQAP  
GKGLEWVGRIKSKTDGGTTDYAAPVKGRFTISRDDSKNTLYLQMNSLKTEDTAVYYCTT

>sp|P01763|HV348\_HUMAN Immunoglobulin heavy variable 3-48 OS=Homo sapiens GN=IGHV3-48 PE=1 SV=2

MELGLCWVFLVAILEGVQCEVQLVESGGGLVQPGGSLRLSCAASGFTFSSYEMNWVRQAP  
GKGLEWVSYISSSGSTIYYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR

>sp|P06331|HV434\_HUMAN Immunoglobulin heavy variable 4-34 OS=Homo sapiens GN=IGHV4-34 PE=1 SV=2

MDLLHKNMKHLWFFLLLVAAPRWVLSQVQLQWAGLLKPSETLSLTCAVYGGSFSGYYW  
SWIRQPPGKLEWIGEINHSGSTYNPSLKSRTISVDTSKNQFSLKLSSVTAADTAVYY  
CAR

>sp|P17509|HXB6\_HUMAN Homeobox protein Hox-B6 OS=Homo sapiens GN=HOXB6 PE=1 SV=4

MSSYFVNSTFPVTLASGQESFLGQLPLYSSGYADPLRHYPAPYGPQPGQDKGFATSSYYP  
PAGGGYGRAAPCDYGPAPAFYREKESACALSGADEQPPFHPEPRKSDCAQDKSVFGETEE  
QKCSTPVYPWMQRMNSCNSSSFGPSGRRGRQTYTRYQTLELEKEFHYNRYLTRRRRIETA  
HALCLTERQIKIWFQNRRMKWKKEKLLSASQLSAEEEEEEKQAE

>sp|P09017|HXC4\_HUMAN Homeobox protein Hox-C4 OS=Homo sapiens GN=HOXC4 PE=1 SV=2

MIMSSYLMDSNYIDPKFPPCEEYSQNSYIPEHSPEYYGRTRESGFQHHHQELYP PPPPRP  
SYPERQYSCTSLQGPGNSRGHPAQAGHHHPEKSQSLCEPAPLSGASASPSPAPPACSQP  
APDHPSSAASKQPIVYPWMKKIHVSTVNPNYNGGEPKRSRTAYTRQQVLELEKEFHYNRY  
LTRRRRIETIAHSLCLSERQIKIWFQNRRMKWKKDHLPLNTKVRSAAPPAGAAPSTLSAATP  
GTSEDHSQSATPPEQQRAEDITRL

>sp|Q00444|HXC5\_HUMAN Homeobox protein Hox-C5 OS=Homo sapiens GN=HOXC5 PE=3 SV=1

MSSYVANSFYKQSPNIPAYNMQTCGNYGSASEVQASRYCYGGLDLSITFPPPPAPSNSLHG  
VDMAANPRAHPDRPACSAAPGHAPGRDEAAPLNPGMYSQKAARPALEERAKSSGEIKE  
EQAQTGQPAGLSQPPAPPQIYPWMTKLHMSHETDGKRSRTSYTRYQTLELEKEFHFNRYL  
TRRRRIETIANLCLNERQIKIWFQNRRMKWKKDSKMKKEAL

>sp|P31273|HXC8\_HUMAN Homeobox protein Hox-C8 OS=Homo sapiens GN=HOXC8 PE=1 SV=2

MSSYFVNPLFSKYKAGESLEPAYYDCRFPSVGRSHALVYGPQSAPGFQHASHHVQDFF  
HHGTSGISNSGYQQNPCSLSCHGASKFYGYEALPRQSLYGAQQEASVVQYPDCKSSANT  
NSSEGQGHNLQNSSPSLMFPWMPHAPGRRSGRQTYTRYQTLELEKEFLFNPYLTRKRRI  
EVSHALGLTERQVKIWFQNRRMKWKKENNKDKLPGARDEEKVEEEGNEEEEEKEEEEKEEN  
KD

>sp|P20810|ICAL\_HUMAN Calpastatin OS=Homo sapiens GN=CAST PE=1 SV=4

MNPTETKAIPVSQQMEGPHLPNKKKKHKQAVKTEPEKKSQSTKLSVVHEKKSQEGKPKKH  
TEPKSLPKQASDTGSNDAHNKKAVSRSAEQQPSEKSTEPKTKPQDMISAGGESVAGITAI  
SGKPGDKKKKKSLTPAVPVESKPDKPSGKSGMDAALDDLIDTLGGPEETEEENTTYTGP  
EVSDPMSSTYIEELGKREVTIPPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFT  
CGSPTAAGKKTEKEESTEVLKAQSAGTVRSAAPPQEKKRKVEKDTMSDQALEALSASLGT  
RQAPELDLRSIKEVDEAKAKEEKLKCGEDDETIPSEYRLKPATDKDGKPLLPEPEEK  
KPRSESELIDELSEDFDRSECKEKPSKPTKTEESKAAAPAPVSEAVCRTSMCSIQSAPP  
EPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPD

YRLEEVKDKDGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEAKLAAAI  
EVVSQTPASTTQAGAPPRDTSQSDKDLDDALDKLSDSLGQRQPDENKPMEDKVKEKAK  
AEHRDKLGERDDTIPPEYRHLLDNGQDKPVKPPTKKSSEDSKKPADDQDPIDALSGDLDS  
CPSTTETSQNTAKDKCKKAASSSKAPKNGGKAKDSAKTTEETSKPKDD

>sp|P32942|ICAM3\_HUMAN Intercellular adhesion molecule 3 OS=Homo sapiens GN=ICAM3 PE=1  
SV=2

MATMVPSVLWPRACWTLLVCCLLTPGVQGQEFLLRVEPQNPVLSAGGSLFVNCSTDCPSS  
EKIALETSLSKELVASGMGWAAFNLSNVTGNSRILCSVYCNGSQITGSSNITVYRLPERV  
ELAPLPWPQVPVGNFTLRCQVEDGSPRTSLTVVLLRWEELSRQPAVEEPAEVTATVLAS  
RDDHGAPFSCRTELDMQPQGLGLFVNTSAPRQLRTFVLPVTPPRLVAPRFLEVETSWPVD  
CTLDGLFPASEAQVYLALGDQMLNATVMNHGDTLTATATATARADQEGAREIVCNVTLGG  
ERREARENLTVFSFLGPIVNLSEPTAHEGSTVTVSCMAGARVQVTLDGVPAAAPGQPAQL  
QLNATESDDGRSFFCSATLEVDGEFLHRNSSVQLRVLYGPKIDRATCPQHLKWKDKTRHV  
LQCQARGNPYPELRLKEGSSREVPVGIPFFVNVTHNGTYQCQASSSRGKYTLVVMDIE  
AGSSHFPVPFVAVLLTLGVVTIVLALMYVFREHQRSGSYHVREESTYLPLTSMQPTEAMG  
EEPSRAE

>sp|Q659A1|ICE2\_HUMAN Little elongation complex subunit 2 OS=Homo sapiens GN=ICE2 PE=1  
SV=2

MSSKMVISEPGLNWDISPKNGLKTFFSRENYKDHSMAPSLKELRVLSNRRIGENLNASAS  
SVENEPAVSSATQAKEKVKTITGMVLLPKPRVPYPRFSRFSQREQRSYVDLLVKYAKIPA  
NSKAVGINKNDYLQYLDMMKKHVNEEVTEFLKFLQNSAKKCAQDYNMLSDDARLFTEKILR  
ACIEQVKKYSEFYTLHEVTSLMGFFPFRVEMGLKLEKTLALGSKYKVTVPSPMPIKLQ  
LSKDDIATITETSEQTAEMHYDISKDPNAEKLVSRYHPQIALTSQSLFTLLNNHGPTYKE  
QWEIPVCIQVIPVAGSKPVKVIYINSPLPQKKMTMRERNQIFHEVPLKFMMSKNTSVPVS  
AVFMDKPEEFISEMDMSCEVNECRKIESLENLYLDFDDDVTELETFGVTTTKVSKSPSPA  
STSTVPNMTDAPTAPKAGTTTVAPSAPDISANSRSLSQILMEQLQKEKQLVTGMDGGPEE  
CKNKDDQGFESCEKVSNSDKPLIQDSLKTSDALQLENSQEIETSNKNDMTIDILHADGE  
RPNVLENLDNSKEKTVGSEAAKTEDTVLCSSDTDEECLIIDTECKNNSDGKTAVVGSNLS  
SRPASPNSSSGQASVGNQNTACSPPEESCVLKKPIKRVYKKFDPVGEILKMQDELLKPI  
RKVPPELPLMNLENSKQPSVSEQLSGPSDSSSWPKSGWPSAFQKPKGRLPYELQDYVEDTS  
EYLAPQEGNFVYKLFSLQDLLLLVRCSVQRIETRPRSKKRKKIRRQFPVYVLPKVEYQAC  
YGVEALTESELRLWTESSLHSNSFYVGHIDAFTSKLFLLEEITSEELKEKLSALKISN  
LFNQLQHLKKLSSQLQEGSYLLSHAAEDSSLLIYKASDGKVTRTAYNLYKTHCGLPGVPS  
SLSVPWVPLDPSLLLPYHIHHGRIPCTFPPKSLDTTQKQIGGTRMPTRSHRNPVSMETK  
SSCLPAQQVETEGVAPHKRKIT

>sp|O75144|ICOSL\_HUMAN ICOS ligand OS=Homo sapiens GN=ICOSLG PE=1 SV=2

MRLGSPGLLFLFSSLRADTQEKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSESK  
TVVTYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRLFNVTPQDEQKFHCLVLSQSL  
GFQEVLSVEVTLHVAANFSVPVVSAPHSPSQDELFTCTCTINGYPRPNVYWINKTDNSLL  
DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNIGCCIEENVLLQQLTVGSQTGNDIGERD  
KITENPVSTGEKNAATWSILAVLCLLVVAVAIGWVCRDRCLQHSYAGAWAVSPETELTG  
HV

>sp|Q14197|ICT1\_HUMAN Peptidyl-tRNA hydrolase ICT1, mitochondrial OS=Homo sapiens  
GN=MRPL58 PE=1 SV=1

MAATRCRLRWGLSRAGVWLLPPPARCPRRALHKQKDGTEFKSIYSLDKLYPESQGSdTAWR  
VPNGAKQADSDIPLDRLTISYCRSSGPGGQNVNKNVNSKAIEVRFHLATAEWIAEPVRQKIA  
ITHKNKINRLGELILTSESSRYQFRNLADCLQKIRDMITEASQTPKEPTKEDVKLHRIRI  
ENMNRERLRQKRIHSAVKTSTRVDMD

>sp|P14735|IDE\_HUMAN Insulin-degrading enzyme OS=Homo sapiens GN=IDE PE=1 SV=4

MRYRLAWLLHPALPSTFRSVLGARLPPPERLCGFQKKTYSKMNNPAIKRIGNHITKSPED  
KREYRGLELANGIKVLLISDPTTDKSSAALDVHIGSLSDPPNIAGLSHFCEHMLFLGTKK  
YPKENEYSQFLSEHAGSSNAFTSGEHTNYYFDVSHEHLEGALDRFAQFFLCPLFDESCKD  
REVNAVDSSEHEKNVMNDAWRLFQLEKATGNPKHPFSKFGTGNKYTLETNPQEGIDVRQE  
LLKFHSAYYSSNLMAVCVLGRESLDDLTLNVVKLFSEVENKNVPLPEFPEHPFQEEHLKQ  
LYKIVPIKDIRNLVYTFPIPDQKYKSNPGHYLGHLIGHEGPGSLLSELKSKGWVNTLV  
GGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQLRAEGPQEWVFQECKDLNAV  
AFRFKDKERPRGYTSKIAGILHYPLEEVLTAEYLLLEFRPDLIEMVLDKLRPENVRVAI  
VSKSFEGKTDRTTEWYGTQYKQEAIPDEVIKKWQNA DLNGKFKLP TKNEFIPTNFEILPL  
EKEATPYPALIKDTAMSKLWFKQDDKFLLPKACLNFEFFSPFAYVDPLHCNMAYLYLELL  
KDSLNEYAYAAELAGLSYDLQNTIYGYLSVKGYNDKQPIILLKKIIEKMATFEIDEKRFE  
IIEAYMRSLNNFRAEQPHQHAMYRLRLMTEVAWTKDELKEALDDVTLPRLKAFIPQLL  
SRLHIEALLHGNITKQAALGIMQMVEDTLIEHAHTKPLLPSQLVRYREVQLPDRGWFVYQ  
QRNEVHNNGIEIYYQTMQSTSENMFLELFCQIISEPCFNTLRTKEQLGYIVFSGPRRA  
NGIQGLRFIIQSEKPPHYLESVEAFLITMEKSIEDMTEEAFQKHIQALAIRRLDKPKKL  
SAECAKYWGEIISQQYNFDRDNTEVAYLTKLTKEDEIKFYKEMLAVDAPRRHKVSVHVA  
REMDSCPVVGEFPCQNDINLSQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKL

>sp|Q13907|IDI1\_HUMAN Isopentenyl-diphosphate Delta-isomerase 1 OS=Homo sapiens GN=IDI1  
PE=1 SV=2

MPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFN  
TENKLLLQQRSDAKITFGCFTNTCCSHPLSNPAELEESDALGVRRAAQRLKAELGIPL  
EEVPPEEINYLTRIHYKAQSDGIWGEHEIDYILLVRKNVTLPDPNEIKSYCYVSKEELK  
ELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKIYRM

>sp|O14645|IDLC\_HUMAN Axonemal dynein light intermediate polypeptide 1 OS=Homo sapiens  
GN=DNALI1 PE=1 SV=2

MIPPADSLLKYDTPVLVSRNTEKRSPKARLLKVSPQQPGPSGAPQPPKTKLPSTPCVPD  
PTKQAEELNAILPPREWEDTLWIQQVSSSTPSTRMDVHLQEQLDLKLQQRQARETGI  
CPVRRELYSCFDELIREVTINCAERGLLLLRVRDEIRMTIAAYQTLYESVAFGMRKAL  
QAEQKGKSDMERKIAELETEKRDLEKRVNEQKAKCEATEKRESERRQVEEKKHNEEIQFLK  
RTNQQLKAQLEGIIAPKK

>sp|P46695|IEX1\_HUMAN Radiation-inducible immediate-early gene IEX-1 OS=Homo sapiens  
GN=IER3 PE=1 SV=4

MCHSRSCHPTMTILQAPTAPSTIPGPRRGSGPEIFTFDPLPEAAAPAGRPSASRGHRK  
RSRRVLYPRVRRQLPVEEPNPAKRLFLLLTIVFCQILMAEEGVPAPLPPEDAPNAASL  
APTIVSAVLEPFNLTSPESDYALDLSTFLQQHPAAF

>sp|P55010|IF5\_HUMAN Eukaryotic translation initiation factor 5 OS=Homo sapiens GN=EIF5  
PE=1 SV=2

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPPTYPTKYFGCE  
LGAQTQFDVKNDRIYVNGSHEANKLQDMLDGFIKKFVLCPECENPETDLHVNPCKQTIGN

SCKACGYRGLDTHHKLCTFILKNPPENS DSGTGKKEKEKKNRKGDKENG SVSSSETPP  
PPPPNEINPPPHTEEEEEDDWGEDTTEEAQRRRMDEISDHAKVLTLSDDLERTIEERV  
NILDFVKKKKEEGVIDSSKEIVAEERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF  
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV IISWSEKASK  
KYVSKELAKEIRVKAEPFIKWLKEAEEESSGGEEDEDENIEVVYSKAASVPKVETVKSD  
NKDDIDIDAI

>sp|P05014|IFNA4\_HUMAN Interferon alpha-4 OS=Homo sapiens GN=IFNA4 PE=1 SV=2  
MALSFSLMAVLVLSYKSLGCDLPQTHSLGNRRALILLAQMGRISHFSCLKDRHDFG  
FPEEEFDGHQFQKAQISVLHEMIQQT FNLFSTEDSSAAWEQSLLEKFSTELYQQLNDLE  
ACVIEVGVEETPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTN  
LQKRLRRKD

>sp|Q8IZI9|IFNL3\_HUMAN Interferon lambda-3 OS=Homo sapiens GN=IFNL3 PE=1 SV=2  
MTGDCMPVLVMAAVLTVTGAVPVARLRGALPDARGCHIAQFKSLSPQELQAFKRAKDAL  
EESLLKDKCRSRLFPRTWDLRQLQVRERPVALEALATLVLEATADTDPALGDVLD  
QPLHTLHHILSQLRACTIQPQTAGPRTRGRLHHWLHRLQEAPKKESPGCLEASVTFNLF  
LLTRDLNLCVASGDLVC

>sp|Q8IY31|IFT20\_HUMAN Intraflagellar transport protein 20 homolog OS=Homo sapiens  
GN=IFT20 PE=1 SV=1  
MAKDILGEAGLHFDELNKLRLVDPEVTQQTIELKEECKDFVDKIGQFQKIVGGLIELVDQ  
LAKEAENEKMAIGARNLLKSIKQREAAQQQLQALIAEKKMQLERYRVEYEALCKVEAE  
QNEFIDQFIFQK

>sp|Q96FT9|IFT43\_HUMAN Intraflagellar transport protein 43 homolog OS=Homo sapiens  
GN=IFT43 PE=1 SV=3  
MEDLLDLDEELRYSLATSRAMGRRAQQESAQAENHLNGKNSSLTGTGETSSAKLPCRQ  
GGWAGDSVKASKFRRKASEEIEDFRLRPQSLNGSDYGGDIPIIPDLEEVQEEDFVLQVAA  
PPSIQIKRVMTYRDLNDLMKYSAITLDGEIDLKLLTKVLAPEHEVREDDVGWDWHLF  
TEVSSEVLTEWDPLQTEKEDPAGQARHT

>sp|Q9Y366|IFT52\_HUMAN Intraflagellar transport protein 52 homolog OS=Homo sapiens  
GN=IFT52 PE=2 SV=3  
MEKELRSTILFNAYKKEIFTTNGYKSMQKKLRSNWKIQSLKDEITSEKLVKLVITAG  
PREKFTAAEFEILKKYLDTGDDVFMVLEGGESRFDTNINFLLEEYGMVNNDVVRNVY  
HKYFHPKEALVSSGVNREISRAAGAVPGIIDEESSGNAQALTFVYPFGATLSVMKPA  
VAVLSTGSVCPLNRPILAFYHSKNQGGKLAVLGSCHMFSDQYLDKEENSKIMDVVFQWL  
TTGDIHLNQIDAEDPEISDYMMPLPYTATLSKRNRECLQESDEIPRDFTTLFDLSIFQLDT  
TSFHSVIEAHEQLNVKHEPLQLIQPFETPLPTLQPAVFPPSFRELPPPPELFDLDET  
SSEKARLAQITNKCTEEDLEFYVRKCGDILGVTSKLPKDQDAKHILEHVFFQVVEFKKL  
NQEHIDTSETAFQNNF

>sp|Q96LB3|IFT74\_HUMAN Intraflagellar transport protein 74 homolog OS=Homo sapiens  
GN=IFT74 PE=1 SV=1  
MASNHKSSAARPVSRGGVLTGRPPSGIRPLSGNIRVATAMPPGTARPGSRGCPIGTGGV  
LSSQIKVAHRPVTQQGLTGMKTGTGKQPQRQILDKSYLGLLSKISELTTEVNKLQKGIE  
MYNQENSVYLSYKRAETLAVEIKELQGLADYNMLVDKLNNTMEMEVMNDYNMLKAQN  
DRETQSLDVIFTERQAKEKQIRSVEEEIEQEKQATDDI IKNMSFENQVKYLEMKTNEKL  
LQELDTLQQQLDSQNMKESLEAEIAHSQVQAEAVLLHEKLYELES HRDQMIAEDKSIGS

PMEEREKLLKQIKDDNQEIASMERQLTDTKEKINQFIEEIRQLDMDLEE HQGEMNQKYKE  
LKKREEHMDTFIETFEETKNQELKRKAQIEANIVALLEHCSRNNINRIEQISSITNQELKM  
MQDDLNFKSTEVQKSQSTAQNLTSDIQRLLDLQKMELLESKMTEE QHSLKSKIKQMTTD  
LEIYNDLPALKSSGEEKIKKLHQERMILSTHRNAFKKIMEKQNIYEALKTQLQENETHS  
QLTNLERKWQHLEQNNFAMKEFIATKSQESDYQPIKKNVTQIAEYNKTIVDALHSTSGN

>sp|Q8WYA0|IFT81\_HUMAN Intraflagellar transport protein 81 homolog OS=Homo sapiens  
GN=IFT81 PE=1 SV=1

MSDQIKFIMDSLNKEPFRKNYNLITFDSLEPMQLLQVLSVDLAEIDPKQLVDIREEMPEQ  
TAKRMLSLLGILKYKPSGNATDMSTFRQGLVIGSKPVIYPVLHWLLQRTNELKKRAYLAR  
FLIKLEVPSEFLQDETVADTNKQYEELMEAFKTLHKEYEQLKISGFSTAEIRKDISAMEE  
EKDQLIKRVEHLKKRVETAQNHQWMLKIARQLRVEKEREEYLAQQKQEQKNQLFHAVQRL  
QRVQNQLKSMRQAAADAKPESLMKRLEEEIKFNLYMVTEKFPKELENKKKELHFLQKVVS  
EPAMGHSDDLLEESKINEINTEINQLIEKKMMRNEPIEGKLSLYRQQASII SRKKEAKAE  
ELQEAKEKLASLEREASVKRNQTRFDGTEVLKGDEFKRYVNKLRSKSTVFKKKHQIIAE  
LKA EFGLLQRTEELLQRHENIQQQLQTMEEKKGISGYSYQEELE RVSALKSEVDEMKG  
RTLDDMSEMVKKLYSLVSEKKSALASVIKELRQLRQKYQELTQECDEKKSQYDSCAAGLE  
SNRSKLEQEVRRLEECLEESRYHYTNCMIKNLEVQLRRATDEM KAYISSDQQEKRAI  
REQYTKNTAEQENLGKKLREKQKVIRESHGPNMKQAKMWRDLEQLMECKKQCFLKQQSQT  
SIGQVIQEGGEDRLIL

>sp|Q6UW32|IGFL1\_HUMAN Insulin growth factor-like family member 1 OS=Homo sapiens GN=IGFL1  
PE=1 SV=1

MAPRGCIVAVFAIFCISRLLC SHGAPVAPMTPYMLCQPHKRCGDKFYDPLQHCCYDDAV  
VPLARTQTCGNC TFRVCFEQCCPWT FMVKLINQNCDSARTSDDRLCRSVS

>sp|P01871|IGHM\_HUMAN Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

GSASAPTLFPLVSCENSPSDTSSVAVGCLAQDFLPDSITLSWKYKNNSDISSTRGFPSVL  
RGGKYAATSQVLLPSKDVMQGTDEHVVCVKVQHPNGNKEKNVPLPVIAELPPKVS VFVPPR  
DGFFGNPRKSKLICQATGFSPRQIQVSWLREGKQVGSVTTDQVQAEAKESGPTTYKVTS  
TLTIKESDWLGQSMFTCRVDHRGLTFQQNASSMCVPDQDTAIRVFAIPPSFASIFLTKST  
KLTCLVTDLT TYDSVTISWTRQNGEAVKTHTNISESHPNATFSAVGEASICEDDWSNGER  
FTCTVTHTDLP SPLKQTISRPKGVALHRPDVYLLPPAREQLNLRESATITCLVTGFSPAD  
VFVQWMQRGQPLSPEKYVTSAPMPEPQAPGRYFAHSILTVSEEEWNTGETYTCVAHEALP  
NRVTERTVDKSTGKPTLYNVSLVMSDTAGTCY

>sp|A6NJ69|IGIP\_HUMAN IgA-inducing protein homolog OS=Homo sapiens GN=IGIP PE=3 SV=1  
MCSYYHMKRSVSGCNITIFAVMFSHLSAGKSPCGNQANVLCISRLEFVQYQS

>sp|A6NGN9|IGLO5\_HUMAN IgLON family member 5 OS=Homo sapiens GN=IGLON5 PE=2 SV=4

MPPPAPGARLRLAAAAAGLAVISRGLLSQSLEFNSPADNYTVCEGD NATLSCFIDEHV  
TRVAWLNRSNILYAGNDRWTS DPRVRLINTPEEFSILITEVGLGDEGLYTCSFQTRHQP  
YTTQVYLIVHVPARIVNISSPVTVNEG GNVNLLCLAVGRPEPTVTVRQLRDGFTSEGEIL  
EISDIQRGQAGEYECVTHNGVNSAPDSRRVLVTNYPPTITDVT SARTALGRAALLRCEA  
MAVPPADFQWYKDDRLLSSGTA EGLKVQTERTRSMLLFANVSARHYGNYTCRAANRLGAS  
SASMRLLRPGLENSAPRPPGLLALLSALGWLWWRM

>sp|Q8N6C5|IGSF1\_HUMAN Immunoglobulin superfamily member 1 OS=Homo sapiens GN=IGSF1 PE=1  
SV=3

MTLDRPGEGATMLKTFTVLLFCIRMSLGMTSIVMDPQPELWIESNYPQAPWENITLWCRS

PSRISSKFLLLKDKTQMTWIRPSHKTFQVSFLIGALTESNAGLYRCCYWKETGWSKPSKV  
LELEAPGQLPKPIFWIQAETPALPGCNVNILCHGWLQDLVFMFLKEGYAEPVDYQVPTGT  
MAIFSIDNLTPEDEGVYICRTHIQMLPTLWSEPSNPLKLVVAGLYPKPTLTAHPGPIMAP  
GESLNLRCQGPIYGMTFALMRVEDLEKSIFYHKKTIKNEANFFQSLKIQDTGHYLCFYD  
ASYRGSLLSDVLKIWVTDTFPKTWLLARPSAVVQMGQNVSLRCRGPVDGVGLALYKKGED  
KPLQFLDATSIDDNTSFFLNNVTYSDTGIYSCHYLLTWKTSIRMPSHNTVELMVVDKPPK  
PSLSAWPSTVFKLGKAITLQCRVSHPVLEFSLEWEERETFQKFSVNGDFIISNVDGKGTG  
TYSYCSYRVETHPNIWVSHRSEPLKLMGPAGYLTWNYVLNEAIRLSLIMQLVALLLVVLWIR  
WKCRRRLRIEAWLLGTAQGVTMLFIVTALLCCGLCNGVLEETEIVMPTPKPELWAETNF  
PLAPWKNLTLWCRSPSGSTKEFVLLKDGTDGWIATRPASEQVRAAFPLGALTQSHTGSYHC  
HSWEEMAVSEPSEALELVGTDILPKPVISASPTIRGQELQLRCKGWLAGMGFALYKEGEQ  
EPVQQLGAVGREAFFTIQRMEDKDEGNYSCTRTHTEKRPFKWSEPSEPLELVIKEMYKPF  
FKTWASPVVTPGARVTFNCSTPHQHMSFILYKDGSEIASSDRSWASPGASAAHFLIISVG  
IGDGGNYSCRYYDFSISWSEPSDPVELVVTETFYKPTLLAQPGPVVFPGKSVILRCQGTQ  
GMRFALLQEGAHVPLQFRSVSGNSADFLHTVGAEDSGNYSCIYYETMSNRGSYLSMPL  
MIWVTDTFPKPWLFAEPSSVPMGQNVTLWCRGPVHGVGYILHKEGEATSMQLWGSTSND  
GAFPIITNISGTSMGRYSCCYHPDWTSSIKIQPSNTLELLVTGLLPKPSLLAQPGPMVAPG  
ENMTLQCQGELPDSTFVLLKEGAQEPLEQQRPQSGYRADFWMPAVRGEDSGIYSCVYLD  
TPFAASNHSLSLEIWVTDKPPKPSLSAWPSTMFKLKGDITLQCRGPLPGVEFVLEHDGEE  
APQQFSEDGDFVINNVGKIGIGNYSCSYRLQAYPDIWSEPSDPLELVGAAGPVAQECTVG  
NIVRSSLIVVVVALGVVLAIEWKKWPRLRTRGSETDGRDQTIALEECNQEGEPGTPANS  
PSSTSQRISVELPVI

>sp|075054|IGSF3\_HUMAN Immunoglobulin superfamily member 3 OS=Homo sapiens GN=IGSF3 PE=2  
SV=3

MKCFPPVLSCLAVLGVVSAQRQVTVEGPLYRTEGSHITIWCNVSGYQGPSEQNFQWSIY  
LPSSPEREVQIVSTMDSSFPYAIYTQVRVGGKIFIERVQGNSTLLHITDLQARDAGEYEC  
HTPSTDQKQYFGSYSAKMNLVVIPDSLQTTAMPQTLHRVEQDPLELTCEVASETIQHSHLS  
VAWLQKQVGEKPEVEISLSRDFMLHSSSEYAQRQSLGEVRLDKLGRTTFRLTIFHLQPSD  
QGEFYCEAAEWIQPDGWSYAMTRKRSEGAVNVNQPTDKEFTVRLETEKRLHTVGEPVEF  
RCILEAQNVPPDRYFAVSWAFNSSLIATMGPNVAVPLNSEFAHREARGQLKVAKESDSVVFV  
LKIYHLRQEDSGKYNCRVTEREKTVTGEFIDKESKRPNIPITIVLPLKSSISVEVASNAS  
VILEGEDLRFSCSVRTAGRPQGRFSVIWQLVDRQNRRSNIMWLD RDGTVPQGSSYWERSS  
FGGVQMEQVQPNFSLSLIFNSRKEDEGQYEVTEWVRAVDGEWQIVGERRASTPISITA  
LEMGFAVTAISRTPGVTYSDSFDLQCIKPHYPAWVPVSVTWRFQPVGTVEFHDLVTFTR  
DGGVQWGRSSSFRTAIEKAESSNNVRLSISRASDTEAGKYQCVAELWRKNYNNTWTR  
LAERTSNLLEIRVLQPVTKLQVSKSKRTLTLVENKPIQLNCSVKSQTSQNSHFAVLWYVH  
KPSDADGKLILKTHNSAFEYGTAAEEGLRARLQFERHVS GGLFSLTVQRAEVSDSGSY  
YCHVEEWLLSPNYAWYKLAEEVSGRTEVTVKQPD SRLRLSQAQGNLSVLETRQVQLECVV  
LNRTSITSQLMVEWVFWKPNHPERETVARLSRDATFHYGEQA AKNNLKGR LHLESPPSGV  
YRLFQINAVQDSGTYSCHVEEWLPSPSGMWYKRAEDTAGQTALVMRPDASLQVDTVVP  
NATVSEKAAFQLDCSIVSRSSQDSRFAVWYSLRTKAGGKRSSPGLEE QEEEEEEEEED  
DDDDDDPTERTALLSVGPDAVFGPEGSPWEGRLRFQRLSPVLYRLTVLQASPQDTGNYS  
HVEEWLPSPQKEWYRLTEESAPIGIRVLDTSPTLQSIICSNDALFYVFFYPFPIFGIL  
IITILLVRFKSRNSSKNSDGKNGVPLLWIKEPHLNYSPTCLEPPVLSIHPGAID

>sp|Q14005|IL16\_HUMAN Pro-interleukin-16 OS=Homo sapiens GN=IL16 PE=1 SV=4

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QSSNFLFPKACHQARNSNSTSVNPYCTREIDFPMTKKSAAPTDRQPYSLCSNRKSLSQQL  
DCPAGKAAGTSRPTSLSTAQLVQPSGGLQASVISNIVLMKGQAKGLGFSIVGGKDSIYG  
PIGIYVKTI FAGGAAAADGRLQEGDEILELNGESMAGLTHQDALQKFKQAKKGLLTITVR  
TRLTAPPSLCSHLSPLCRSLSSSTCITKSSSFALESAPSAPISTAKPNYRIMVEVSLQK  
EAGVGLGIGLCSVPYFQCISGIFVHTLSPGSVAHLDGRLRCGDEIVEISDSPVHCLTLNE  
VYTI LSHCDPGVPVPIIVSRHPDPQVSEQQLKEAVAQAVENTKFGKERHQWSLEGVKRLES  
SWHGRPTLEKEREKNSAPPHRAQKVMIRSSSDSSYMSGSPGGSPGSGSAEKPSSDVIDS  
THSPSLPLAREPVVLSIASSRLPQESPLPESRDSHPPLRLKKSFEILVRKPMSSKPKPP  
PRKYFKSDSDPQKSLEERENSSCSSGHTPPTCGQEARELLPLLLPQEDTAGRSPSASAGC  
PGPGIGPQTKSSTEGERPGWRRASPTQTSPIKHPLLKRQARMDSYFDTTAEDPWVRISDC  
IKNLFSPIMSENHGHMLQPNASLNEEEGTQGHDPGTPPKLDTANGTPKVYKSADSSSTVK  
KGPPVAPKPAWFRQSLKGLRNRASDPRLPDALSTQPAPASREHLGSHIRASSSSSIR  
QRISSFETFGSSQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQP  
EQVLSSGSPAASEARDPGVSESPPPGRQPNQKTLPPGPDLLRLSTQAEESQGPVLKMP  
SQRARSFPLTRSQCETKLLDEKTSKLYSISSQVSSAVMKSLLCLPSSISCAQTPCIPKE  
GASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQSGQS  
VISLLSSEELKKLIEEVKVLDEATLKQLDGIHVTILHKEEGAGLGFSLAGGADLENKVIT  
VHRVFPNGLASQEGTIQKGVNELSINGKSLKGTTHDALAILRQAREPRQAVIVTRKLT  
EAMPDLNSSTDASAASASADVSVESTAEATVCTVTLEKMSAGLGFSLGEGKGS LHGDKP  
LTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAWNIIKALPDGPVTIVIRRKS  
LQSKETTAAGDS

>sp|Q96PD4|IL17F\_HUMAN Interleukin-17F OS=Homo sapiens GN=IL17F PE=1 SV=3

MTVKTLHGPAMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIG  
IINENQRVSMRNIESRSTSPWNYTVTWDPNRYPSEVVQAQCRNLGCINAQGKEDISMNS  
VPIQQETLVVRRKHQGCVSFQLEKVLVTVGCTCVTPVIHHVQ

>sp|P01583|IL1A\_HUMAN Interleukin-1 alpha OS=Homo sapiens GN=IL1A PE=1 SV=1

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVSLSISETS  
KTSKLTFKESMVVATNGKVLKKRRLSLSQSITDDLEAIANDSEEEIIKPRSAPFSFLS  
NVKYNFMRIIKYEFILNDALNQSIIIRANDQYLTAALHNLD EAVKFDMGAYKSSKDDAKI  
TVILRISKTLQYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFWETHGKKNYFTSVAHP  
NLFIATKQDYWVCLAGGPPSITDFQILENQA

>sp|P27930|IL1R2\_HUMAN Interleukin-1 receptor type 2 OS=Homo sapiens GN=IL1R2 PE=1 SV=1

MLRLYVLVMGVSAFTLQPAHTGAARSCRFRGRHYKREFRLEGEPVALRCPQVPYWLWAS  
VSPRINLTWHKNDARTVPGEETRMWAQDGALWLLPALQEDSGTYVCTTRNASYCDKMS  
IELRVFENTDAFLPFISYPQILTLSTSGVLVCPDLSEFTRDKTDVKIQWYKDSLLLDKDN  
EKFLSVRGTTLLVHDVALEDAGYYRCVLTF AHEGQQYNITRSIELRIKKKKEETIPVII  
SPLKTISASLGSRLTIPCKVFLGTGTPLTTLWWTANDTHIESAYPGGRVTEGPRQEYSE  
NNENYIEVPLIFDPVTREDLHMDFKCVVHNTLSFQTLRTTVKEASSTFSWGIVLAPLSLA  
FLVLGGIWMHRRCKHRTGKADGLTVLWPHHQDFQSYPK

>sp|Q9NYY1|IL20\_HUMAN Interleukin-20 OS=Homo sapiens GN=IL20 PE=1 SV=2

MKASSLAFSLLSAAFYLLWTPSTGLKTLNLGSCVIATNLQEIRNGFSEIRGSVQAKDGN

DIRILRRTESLQDTKPANRCCLLRHLLRLYLDRVFKNYQTPDHYTLRKISSLANSFLTIK  
KDLRLCHAHMTCHCGEEAMKKYSQILSHFEKLEPQAAVVKALGELDILLQWMEETE

>sp|Q9NPF7|IL23A\_HUMAN Interleukin-23 subunit alpha OS=Homo sapiens GN=IL23A PE=1 SV=1  
MLGSRVMLLLLLPWTAQGRAVPGSSPAWTQCQQLSQKLCTLAWSAHLPLVGHMDLREEG  
DEETTNDVPHIQCGDGDQPGLRDNSQFCLQRIHQGLIFYEKLLGSDIFTGEPSLLPDSP  
VGQLHASLLGLSQLLQPEGHHWETQQIPSLSPSQPWQRLLLRFKILRSLQAFVAVAAARVF  
AHGAATLSP

>sp|P78344|IF4G2\_HUMAN Eukaryotic translation initiation factor 4 gamma 2 OS=Homo sapiens  
GN=EIF4G2 PE=1 SV=1

MESAIAEGGASRFSASSGGGSRGAPQHYPKTAGNSEFLGKTPGQNAQKWIPARSTRRDD  
NSAANSANEKERHDAIFRKVRGILNKLTPKFDKLCLELLNVGVESKLILKGVILLIVD  
KALEEPKYSSLYAQLCLRLAEDAPNFDGPAAEGQPQKQSTTFRRLLISKLQDEFENRTR  
NVDVYDKRENPLLPEEEEEQRAIAKIKMLGNIKFIGELGKLDLIHESILHKCIKTLEKKK  
RVQLKDMGEDLECLCQIMRTVGPRLDHERAKSLMDQYFARMCSLMSKELPARIRFLLQD  
TVELREHHVWPRKAFLDNGPKTINQIRQDAVKDLGVFIPAPMAQGMRSDDFLEGPFMPPR  
MKMDRDPLGGLADMFGQMPGSGIGTGPQVIQDRFSPTMGRHRSNQLFNHGHHIMPPTQS  
QFGEMGGKFMKSQGLSGLYHNQSGLLSQLQGQSKDMPPRFSKKGQLNADEISLRPAQSF  
LMNKNQVPKLQPKITMIPPSAQPPRTQTPPLGQTPQLGLKTNPPLIQEPAKTSKKPPPS  
KEELLKLTETVVTEYLNNGNANEAVNGVREMRAPKHFLPEMLSKVIIISLDRSDEDKEKA  
SSLISLLKQEGIATSDNFMQAFLNVLDQCPKLEVDIPLVKSILAQAARAIISELVSISE  
LAQPLESPTHFPLFLLCLQLAKLQDREWLTELFQQSKVNMQKMLPEIDQNKDRMLEILE  
GKGLSFLFPLKLEKELLKQIKLDPSPQTIYKWKDNISPKLHVDKGFVNILMTSFLQYI  
SSEVNPPSDETDSSAPSKEQLEQEKQLLSFKPVMQKFLHDHVDLQVSALYALQVHCYN  
SNFPKGMLLRFFVHFYDMEIIIEEAFLAWKEDITQEFPGKGKALFQVNQWLTWLETAEEE  
ESEEEAD

>sp|Q9GZV4|IF5A2\_HUMAN Eukaryotic translation initiation factor 5A-2 OS=Homo sapiens  
GN=EIF5A2 PE=1 SV=3

MADEIDFTTGAGASSTYPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG  
IDIFTGKKYEDICPSTHNDVPNIKRNDYQLICTQDGYLSLLTETGEVREDLKLPEGELG  
KEIEGKYNAGEDVQVSVMCAMSEYAYAIKPK

>sp|P56537|IF6\_HUMAN Eukaryotic translation initiation factor 6 OS=Homo sapiens GN=EIF6  
PE=1 SV=1

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIG  
RMCVGNRHGLLVNNTTDQELQHIRNSLPDVTQIRRVEERLSALGNVTTENDYVALVHPD  
LDRETEEILADVLEKVEFRQTVADQVLVGSYCVFSNQGLVHPKTSIEDQDELSSLLQVP  
LVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLNEAQPSTIATSMRDSL  
IDSLT

>sp|P09912|IFI6\_HUMAN Interferon alpha-inducible protein 6 OS=Homo sapiens GN=IFI6 PE=2  
SV=2

MRQKAVSLFLCYLLLFTCSGVEAGKKKCESSDSGSGFWKALTFMAVGGGLAVAGLPALG  
FTGAGIAANSVAASLMSWSAILNNGGVPAGGLVATLQSLGAGGSSVIGNIGALMGYATH  
KYLDSEEDDE

>sp|Q9BYX4|IFIH1\_HUMAN Interferon-induced helicase C domain-containing protein 1 OS=Homo  
sapiens GN=IFIH1 PE=1 SV=3



MSNGYSTDENFRYLISCFRARVKMYIQVEPVLDTFLPAEVKEQIQRTVATSGNMQAVE  
LLLSTLEKGVWHLGWTREFVEALRRTGSPLAARYMNPETDLPSPSFENAHDEYLQLLNL  
LQPTLVDKLLVRDVLDKMEEELLTIEDNRRIAAAENNGNESGVRELLKRIVQKENWFS  
FLNVLQRGTGNELVQELTGSDCESNAEIEIENLSQVDGPQVEEQLLSTTVQPNLEKEVWGM  
ENNSSSESSFADSSVSESDTSLAEGSVSCLDES LGHNSNMGSDSGTMGSDSDEENVAARA  
SPEPELQLRPYQMEVAQPALEGKNI I ICLPTGSGKTRVAVYIAKDHLDKKKKASEPGKVI  
VLVNVLLVEQLFRKEFQPFLLKKWYRVIGLSGDTQLKISFPEVVKSCDII I STAQILENS  
LLNLENGEDAGVQLSDFSLII IDECHHTNKEAVYNNIMRHYLMQKLKNNRLKKENKPVIP  
LPQILGLTASPGVGGATKQAKAEHILKLCANLDAFTIKTVKENLDQLKNQIQEPCKKFA  
IADATREDPFKEKLEIMTRIQTTCQMSPMSDFGTQPYEQWAIQMEKKAAKEGNRKERV  
AEHLRKYNEALQINDTIRMIDAYTHLETIFYNEEKDKKFAVIEDDSDEGGDDEYCDGDEDE  
DDLKKPLKLDTRFLMTLFFENNKMLKRLAENPEYENEKLTCLRNTIMEQYTRTEESAR  
GIIFTKTRQSAYALSQWITENEKFAEVGVKAHHLIGAGHSSEFKPMTQNEQKEVISKFRT  
GKINLLIATTVAEEGLDIKECNIVIRYGLVTNEIAMVQARGRARADESTYVLVAHSGSGV  
IEHETVNDFREKMMYKAHCYQNMKPEEYAHKILELQMQSIMEKKMKTNRNIAKHYKNP  
SLITFLCKNCSVLACSGEDIHVIEKMHVNMTEPFKELYIVRENKALQKKCADYQINGEI  
ICKCGQAWGTMVHKGLDPLCKIRNFVVVFKNNSTKKQYKKWVELPITFPNLDYSECCL  
FSDED

>sp|O14879|IFIT3\_HUMAN Interferon-induced protein with tetratricopeptide repeats 3  
OS=Homo sapiens GN=IFIT3 PE=1 SV=1

MSEVTKNLSLEKILPQLKCHFTWNLFKEDSVSRDLEDRCNQIEFLNTEFKATMYNLLAYI  
KHLDGNNAALECLRQAEELIQEHADQAEIRSLVTWGNVAVVYHLGRLSDAQIYVDKV  
KQTCKKFSNPYSIEYSELDCGEGWTQLKCGRNERAKVCFEALKEEKPNNPEFSSGLAIAM  
YHLDNHPEKQFSTDVLKQAIELSPDNQYVKVLLGLKLQKMNKEAEGEQFVEEAEKSPCQ  
TDVLRSAKFYRRKGDLDAIELFQRVLESTPNNGYLHYIGCCYKAKVRQMNTGESEA  
SGNKEMIEALKQYAMDYSNKALEKGLNPLNAYSDLAEFLETECYQTPFNKEVPDAEKQQS  
HQRYCNLQKYNGKSEDTAVQHGLEGLSISKKSTDKEEIKDQPQNVSENLLPQNAPNYWYL  
QGLIHKQNGDLLQAAKCYEKELGRLLRDAPSGIGSIFLSASELEDGSEEMGQAVSSSPR  
ELLSNSEQLN

>sp|A6NMD0|IFM10\_HUMAN Interferon-induced transmembrane protein 10 OS=Homo sapiens  
GN=IFITM10 PE=2 SV=1

MREGKRGPCCILSFRGTLERVEAQWELEAQGPQCPCAPLGDPASTDGAQEARVPLDGAF  
WIPRPAGSPKGCFAVSKPPALQAPAAPAPEPSASPPMAPTLFPMESKSSKTDVRAAG  
APPACKHLAEKKTMTNPTTVIEVYPDTTEVNDYYLWSIFNFVYLNFCCLGFIALAYSLKV  
RDKLLNDLNGAVEDAKTARLFNITSSALAASCIILVFIFLRYPLTDY

>sp|Q01628|IFM3\_HUMAN Interferon-induced transmembrane protein 3 OS=Homo sapiens  
GN=IFITM3 PE=1 SV=2

MNHTVQTFFSPVNSGQPPNYEMLKEEHEVAVLGAPHNPAPPTSTVIHIRSETSVPDHVW  
SLFNTLFMNPCCLGFI AFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGILMTIL  
LIVIPVLIFQAYG

>sp|P01571|IFN17\_HUMAN Interferon alpha-17 OS=Homo sapiens GN=IFNA17 PE=1 SV=2

MALSFSLLMAVLVSYSICSLGCDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFG  
LPQEEFDGNQFQKTQAISVLHEMIQQTFFNLSTEDSSAAWEQSLEKfstelyqqLNNLE  
ACVIEVGMEEPTLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTN

LQKILRRKD

>sp|Q9H7X7|IFT22\_HUMAN Intraflagellar transport protein 22 homolog OS=Homo sapiens  
GN=IFT22 PE=1 SV=1

MLKAKILFVGPCESGKTVLANFLTESSDITEYSPTQGVRILEFENPHVTSNNKGTGCEFE  
LWDCGGDAKFESCWPALMKDAHGVVIVFNADIPSHRKEMEMWYSCFVQQPSLQDTQCMLI  
AHHKPGSGDDKGSLSLSPPLNKLKLVHSNLEDDPEEIRMEFIKYLKSIINSMSESRDREE  
MSIMT

>sp|P09565|IG2R\_HUMAN Putative insulin-like growth factor 2-associated protein OS=Homo  
sapiens GN=GIG44 PE=1 SV=2

MTPGVVHASPPQSQRVPRQAPCEWAIRNIGQKPKEPNCHNCGTHIGLSKTLRGTPNYLP  
IRQDTHPPSVIFCLAGVGVPGGTCRPAPCVPRFAALPWATNHPGPGCLSDLRA

>sp|P78318|IGBP1\_HUMAN Immunoglobulin-binding protein 1 OS=Homo sapiens GN=IGBP1 PE=1  
SV=1

MAAEDELQLPRLPELFETGRQLLDEVEVATEPAGSRIVQEKVFKGLDLEKAAEMLSQLD  
LFSRNEDLEEIASTDLKYLLVPAFQGALTMKQVNPSKRLDHLQRAREHFINYLTQCHCYH  
VAEFELPKTMNNSAENHTANSSMAYPSLVAMASQRQAKIQRYKQKKELEHRLSAMKSAVE  
SGQADDERVREYYLLHLQRWIDISLEEIESIDQEIKILRERDSSREASTSNSSRQERPPV  
KPFILTRNMAQAKVFGAGYPSLPTMTVSDWYEQHRKYGALPDQGIAKAAPEEFRKAAQQQ  
EEQEEKEEEDDEQTLHRAREWDDWKDTHPRGYGNRQNMG

>sp|P08069|IGF1R\_HUMAN Insulin-like growth factor 1 receptor OS=Homo sapiens GN=IGF1R  
PE=1 SV=1

MKSGSGGGSPTSLWGLLFLSAALSLWPTSGEICGPGIDIRNDYQQLKRENC TVIEGYLH  
ILLISKAEDYRSYRFPKLTVITEYLLFRVAGLESGLDFPNLTVIRGWKLFYNYALVIF  
EMTNLKDIGLYNLRNITRGAIRIEKNADLCYLSTVDWSLILD AVSNNYIVGNKPPKECGD  
LCPGTMEEKPMCEKTTINNEYNYRCWTTNRCQKMCPSTCGKRACTENNECCHPECLGSCS  
APDNDTACVACRHHYYAGVCVPACPPNTYRFEGWRCVDRDFCANILSAESSDSEGFVIHD  
GECMQECPSGFI RNGSQSMYCIPCEGPCPKVCEEEKTKTIDSVTSAQMLQGCTIFKGNL  
LINIRRGNNIASLENFMGLIEVVTGYVKIRHSHALVSLSFLKNLRLILGEEQLEGNYSF  
YVLDNQNLQQLWDWDHRNLTIKAGKMYFAFNPKLCVSEIYRMEEVTGTKGRQSKGDINTR  
NNGERASCESDVLHFTSTTTSKNRIITWHRYRPPDYRDLISFTVYYKEAPFKNVTEYDG  
QDACGSNSWNMVDVLDPPNKDVEPGILLHGLKPWTQYAVYVKAVTLTMVENDHIRGAKSE  
ILYIRTNASVPSIPLDVLSANSSSQLIVKWNPPSLPNGLSYYIVRWQRQPDGYLYRH  
NYCSKDKIPIRKYADGTIDIEEVTENPKTEVCGGEKGPCCACPKTEAEKQAEKEEA EYRK  
VFENFLHNSIFVPRPERKRRDVMQVANTTMSRSRNTTAADTYNITDPEELETEYPPFES  
RVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFFVARTMPAEGADDIPGPVTW  
EPRPENSIFLKWPEPENPNGLILMYEIKYGSQVEDQREC VSRQEYRKYGGAKLNRLNPGN  
YTARIQATSLSGNSWTDVPFFVYVQAKTGYENFIHLIIALP VAVLLIVGGLVIMLYVFHR  
KRNN SRLNGVLYASVNPEYFSAADVVPDEWEVAREKITMSRELGGQSFGMVYEGVAKG  
VVKDEPETRVAIKTVNEAASMRERIEFLNEASVMKEFNCHHVRL LGVVSQGQPTLVIME  
LMTRGDLKSYLRLRPENNNPVLAPPSLSKMIQMAGEIADGMAYLNANKFVHRDLAARN  
CMVAEDFTVKIGDFGMTRDIYETDYRKGKGKLLPVRWMSPE SLKDG VFTTYS DVWSFGV  
VLWEIATLAEQPYQGLSNEQVLR FVMEGGLLDKPDNCPDMLFELMRMCWQYNPKMRPSFL  
EIISSIKEEMEPGFREVFSFYSEENKLP EPEELDLEPENMESVPLDPSASSSSLPLPDRH  
SGHKAENGPGPGVLVLRASFDERQPYAHMNGGRKNERALPLPQSSTC

>sp|P05019|IGF1\_HUMAN Insulin-like growth factor I OS=Homo sapiens GN=IGF1 PE=1 SV=1  
MGKISSLTQLFKCCFCDFLKVKMTMSSSHLFYLALCLLTFTSSATAGPETLCGAEVD  
ALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLMYCAPLKPAKSARS  
VRAQRHTDMPKTQKYQPSTNKNTKSQRRKGWPKTHPGGEQKEGTEASLQIRGKKKEQRR  
EIGSRNAECRGKKGK

>sp|Q14213|IL27B\_HUMAN Interleukin-27 subunit beta OS=Homo sapiens GN=EBI3 PE=1 SV=2  
MTPQLLLALVLWASCPPCSGRKGPPAALTLPVQCASRYPIAVDCSWTLPPAPNSTSPV  
SFIATYRLGMAARGHSWPCLQQTPTSTSTCTITDVQLFSMAPYVLNVTAVHPWGSSSSFVP  
FITEHIKPDPEGVRLSPLAERQLQVQWEPGSGWPFPEIFSLKYWIRYKRQGAARFHRV  
GPIEATSFILRAVRPRARYYVQVAAQDLTDYGELSDWSLPATATMSLGK

>sp|Q9NZH7|IL36B\_HUMAN Interleukin-36 beta OS=Homo sapiens GN=IL36B PE=2 SV=1  
MNPQREAAPKSYAIRDSRQMVVWLSGNSLIAAPLSRSIKPVTLHLIACRDTEFSDKEKGN  
MVYLGKIGKDLCLFCAEIQGKPTLQLKLQGSQDNIGKDTCKVLVGIHTCINLDVRESCFM  
GTLDQWGIQVGRKKWKSSFQHHHLRKKDKDFSSMRTNIGMPGRM

>sp|P08700|IL3\_HUMAN Interleukin-3 OS=Homo sapiens GN=IL3 PE=1 SV=2  
MSRLPVLLLLQLLVRPGLQAPMTQTTPLKTSWVNCNMIDEIITHLKQPPLPLDFNNLN  
GEDQDILMENNLRPNLEAFNRAVKSQNASAIESILKNLLPCLPLATAAPTRHPIHIKD  
GDWNEFRRLKTLFYLKTLENAQAQQTLSLAIF

>sp|P24394|IL4RA\_HUMAN Interleukin-4 receptor subunit alpha OS=Homo sapiens GN=IL4R PE=1  
SV=1

MGWLCSGLLFPVSVCLVLLQVASSGNMKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRL  
LYQLVFLLEAHTCIPENGGAGVCCHLLMDDVVSADNYTDLWAGQQLWKGSFKPSEH  
VKPRAPGNLTVHTNVSDDLTLTWSNPYPDPNYLYNHLTYAVNIWSENDPADFRIYNTYL  
EPSLRIAASTLKSISYRARVRAWAQCYNTTWSEWSPSTKWHNSYREPFEQHLLLGVSVS  
CIVILAVCLLCYVSTIKKKEWWDQIPNPARSRLVAIIIQDAQGSQWEKRSRGQEPKCP  
HWKNCLTKLLPCFLEHNMKRDDEPHKAAKEMPFQSGKSAWCPVEISKTVLWPESISVVR  
CVELFEAPVECEEEEEVEEEKGSFCASPESSRDDFQEGREGIVARLTESLFDLLGEENG  
GFCQQDMGESCLLPPSGSTSAHMPWDEFPSAGPKEAPPWGKEQLHLEPSPPASPTQSPD  
NLCTCTETPLVIAGNPAYRSFSNSLSQSPCPRELGPDPLLARHLEEEPEMPCVPQLSEPT  
TVPQPEPETWEQILRRNVLQHGAAPVSAPTSGYQEFVHAVEQGGTQASAVVGLGPPGE  
AGYKAFSSLLASSAVSPEKCGFGASSGEEGYKPFQDLIPGCPDPAPVPVPLFTFGLDRE  
PPRSPQSSHLPSSEPHLGLPEGEKVEDMPKPPLPQEATDPLVDSLGSIVYSALTCHL  
CGHLKQCHGQEDGGQTPVMASPCGCCGDRSSPPTTPLRAPDPSPGGVPLEASLCPASL  
APSGISEKSKSSSFHPAPGNAQSSSQTPKIVNFVSVGPTYMRVS

>sp|O00629|IMA3\_HUMAN Importin subunit alpha-3 OS=Homo sapiens GN=KPNA4 PE=1 SV=1  
MADNEKLDNQLKNFKNKRDLTMRQRNEVVVELRKNKRDEHLLKRRNVPHEDICEDS  
DIDGDYRVQNTSLEAIVQNASSDNQGIQLSAVQAARKLLSSDRNPPIDDLIKSGILPILV  
HCLERDDNPSLQFEAAWALTNISGTSEQTQAVVQSNAPLFLRLHSPHQNVCEQAVWA  
LGNIIGDGPQCRDYVISLGVVKPLLSFISPSIPITFLRNVTWVMVNLCRHKDPPPPMETI  
QEILPALCVLIHHTDVNILDVTWVALSYLTDAGNEQIQMVIDSGIVPHLVPLLSHQEVKV  
QTAALRAVGNIVTGTDEQTQVVLNCDALSHFPALLTHPKEKINKEAVWFLSNITAGNQQQ  
VQAVIDANLVPMIHLLDKGDFTQKEAAWAISNLTISGRKDQVAYLIQQNVIPPCNLL  
TVKDAQVQVVDGLSNILKMAEDEAETIGNLIEECGGLEKIEQLQNHENEDIYKLAYEI  
IDQFFSSDDIDEDPSLVPEAIQGGTGFNSSANVPTEGFQF

>sp|Q96PE3|INP4A\_HUMAN Type I inositol 3,4-bisphosphate 4-phosphatase OS=Homo sapiens  
GN=INPP4A PE=1 SV=1

MTAREHSPRHGARARAMQRASTIDVAADMLGSLAGNIQDPDEPILEFSLACSELHTPSL  
DRKPNSFVAVSVTTPPQAFWTKHAQTEIEGTNNPIFLSSIAFFQDSLINQMTQVKLSVY  
DVKDRSQGTMYLLGSGTFIVKDLLQDRHRLHLTLRSAESDRVGNITVIGWQMEEKSDQR  
PPVTRSVDTVNGRMVLPVDESLTEALGIRSKYASLRKDTLLKSVFGGAICRMYRFPTTDG  
NHLRILEQMAESVLSLHVPRQFVKLLLEEDAARVCELEELGELSPCWESLRRQIVTQYQT  
IILTYQENLTDLHQYRGPSFKASSLKADKKLEFVPTNLHIQRMRVQDDGGSDQNYDIVTI  
GAPAAHCQGFKSGGLRKKLHKFEETKKHFEECCTSSGCQSIIYIPQDVVRAKEIIAQINT  
LKTQVSYAERLSRAAKDRSATGLERTLAILADKTRQLVTVCCKLLANSIHGLNAARPD  
YIASKASPTSTEEQVMLRNDQDTLMARWTGRNSRSSLQVDWHEEWEKVLNVDKSLEC  
IIQRVDKLLQKERLHGEGCEDVFPCAGSCTSKKGNPD SHAYWIRPEDPFCDPVSSPCPST  
MPSTACHPHLTTHCSPPPEESSPGEWSEALYPLLTTLTDCVAMMSDKAKKAMVFLMQDS  
APTATYLSLQYRRDVVFCQTLTALICGFI IKLRNCLHDDGFLRQLYTIIGLLAQFESLLS  
TYGEELAMLEDMSLGIMDLRNVTFKVTQATSSASADMLPVITGNRDGFNVVRVPLPGPLFD  
ALPREIQSGMLLRVQPVLFNVGINEQQTLAERFGDTSLQEVINVESLVRNLSYFEQFKEV  
LPEDCLPRSRSTCLPELLRFLGQNVHARKNKNVDILWQAAEICRRLNGVRFTSCKSAKD  
RTAMSVTLEQCLILQHEHGMAPQVFTQALECMRSEGCRRRENTMKNVGSRKYAFNSLQLKA  
FPKHYPPEGTYGK VET

>sp|Q1MX18|INSC\_HUMAN Protein inscuteable homolog OS=Homo sapiens GN=INSC PE=1 SV=1

MRRPPNGEAAASEGGWGLWGVQESRRLCCAGHDRCKQALLQIGINMMALPGGRHLDSV  
TLPGQRLHLMQVDSVQRWMEDLKLMTCECMCVLQAKPISLEEDAQGDILAGGPGPGDP  
LQLLLKRGWVISTELRRIGQKLAQDRWARVHMSVRLTCHARSMVSEYSAVSRNSLKEMG  
ETIEKLLMEKCSELSAVTERCLQVENEHVLSMKACVSETLSMLGQHFGQLLELALTREVQ  
ALVRKIDASDNIYTESTTGNLFSLTQEGAPLCRIIAKEGGVVALFKVCRQDSFRCLYPQ  
ALRTLASICCVEEGVHLEKVDGVLCLADILTDNSHSEATRAEAAVVAQVTSPLPVTQ  
HLSSFLESMEEIVTALVKLCQEASSGEVFLLASAALANITFFDTMACEMLLQLNAIRVLL  
EACSDKQQRVDTPYTRDQIVTILANMSVLEQCASDIIQENGVQLIMGMLSEKPRSGTPAEV  
AACERVQQKAAVTLARLSRDPDAREAVRLSCMSRLIELCRSPSERNSSDAVLVACLAAL  
RRLAGVCPEGLQDSDFQQLVQPRLVDSFLLCSNMEESFV

>sp|Q01101|INSM1\_HUMAN Insulinoma-associated protein 1 OS=Homo sapiens GN=INSM1 PE=1 SV=1

MPRGFLVKRSKSTPVSyrVRGGEDGDRALLSPSCGGARAEPAPSPVPGPLPPPPPAE  
RAHAALAAALACAPGPQPPPQGPRAAHFGNPEAAHPAPLYSPTRPVSREHEKHKYFERSF  
NLGSPVSAESFPTPAALLGGGGGGGASGAGGGGTCGGDPLLFAPAELKMGTAFSAGAEAA  
RGPGPGPPLPAAALRPPGKRPPPTAAEPPAKAVKAPGAKKPKAIRKLHFEDEVTTSPV  
LGLKIKEGPVEAPRGRAGGAARPLGEFICQLCKEEYADPFALAHKCSRIVRVEYRCPEC  
AKVFSCPANLASHRRWHKPRPAPAAARAPEPEAAARAAREAPGGGSDRDTSPGGVSES  
GSEDGLYECHCAKFKRRQAYLRKHLAHHQALQAKGAPLAPPAEDLLALYPGPDEKAPQ  
EAAGDGEGAGVLGLSASAECCLCPVCGESFASKGAQERHLRLHAAQVFPCKYCPATFYS  
SPGLTRHINKCHPSENRQVILLQVPVRPAC

>sp|P14616|INSRR\_HUMAN Insulin receptor-related protein OS=Homo sapiens GN=INSRR PE=1  
SV=2

MAVPSLWPWGACLPVIFLSLGFGLDTVEVCPSLDIRSEVAELRQLENCVVVEGHLQILLM  
FTATGEDFRGLSFPRLTQVTDYLLLFVYGLSLRDLFPNLAVIRGTRLFLGYALVIFEM

PHLRDVALPALGAVLRGAVRVEKNQELCHLSTIDWGLLQPAPGANHIVGNKLGEECADV  
PGVLGAAGEPCAATTFSGHTDYRCWTSSHCQRVCPCPHGMACTARGECCHECLGGCSQP  
EDPRACVACRHLVFQGAQLWACPPGTYYQYESWRCVTAERCASLHSPVGRASTFGIHQGSC  
LAQCPSGFTRNSSSIFCHKCEGLCPKECKVGTKTIDSIQAAQDLVGCTHVEGSLILNLRQ  
GYNLEPQLQHSLGLVETITGFLKIKHSFALVSLGFFKNLKLIRGDAMVDGNYTLYVLDNQ  
NLQQLGSWVAAGLTIPVGKIYFAFNPRCLCEHIYRLEEVGTGRGRQNKAEINPRTNGDRA  
ACQTRTLRFVSNVTEADRILLRWERYEPLARDLLSFIVYYKESPFQNAHEVGPDACGT  
QSWNLLDVELPLSRTQEPGVTLASLKPWTQYAVFVRAITLTTEEDSPHQGAQSPIVYLRT  
LPAAPTVPQDVISTNSSSHLLVRWKPTQRNGNLTYYLVLWQRLAEDGDLYLNDYCHRG  
LRLPTSNNDRPFDGEDGDPEAEMESDCCPCQHPPPGQVLPPEAQEASFQKKFENFLHNA  
ITIPISPWKVTSINKSPQRDSGRHRAAGPLRLGGNSSDFEIQEDKVPREAVLSGLRHF  
TEYRIDIHACNHAHTVGCSAATFVFARTMPHREADGIPGKVAWEASSKNSVLLRWLEPP  
DPNGLILKYEIKYRRLGEEATVLCVSRLRYAKFGGVHLALLPPGNYSARVRATSLAGNGS  
WTDSVAFYILGPEEEDAGGLHVLLTATPVGLTLLIVLAALGFFYGKKRNRTLYASVNPEY  
FSASDMYVPDEWEVPREQISIIRELGGQSGFMVYEGLARGLEAGEESTPVALKTVNELAS  
PRECIEFLKEASVMKAFKCHHVRLLVVSGGQPTLVIMELMTRGDLKSHLRSLRPEAEN  
NPGLPQPALGEMIQMAIEADGMAYLAANKFVHRDLAARNCMVSQDFTVKIGDFGMTRDV  
YETDYRKGGKGLLPVRWMAPESLKDGIFTTHSDVWSFGVVLWEIVTLAEQPYQGLSNEQ  
VLKFVMDGGVLEELEGCPQLQELMSRCWQPNPRLRPSFTHILDSIQEELRPSFRLLSFY  
YSPECRGARGSLPTTDAEPDSSPTPRDCSPQNGGPGH

>sp|P01308|INS\_HUMAN Insulin OS=Homo sapiens GN=INS PE=1 SV=1  
MALWMRLPLLLALLWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAED  
LQVGQVELGGGPGAGSLQPLALEGSLQKRGIVEQCCTSICSLYQLENYCN

>sp|Q96P70|IPO9\_HUMAN Importin-9 OS=Homo sapiens GN=IPO9 PE=1 SV=3  
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AELTVDPQGALAIRQLASVILKQYVETHWCAQSEKFRPPETTERAKIVIRELLPNGLRES  
ISKVRSSVAYAVSAIAHWDWPEAWPQLFNLLMEMLVSGDLNAVHGAMRVLTFTREVTDT  
QMPLVAPVILPEMYKIFTMAEYVGIRTRSRAVEIFTTCAHMCNMEELEKGAAKVLIFPV  
VQQFTEAFVQALQIPDGPTSDSGFKMEVLKAVTALVKNFPHMVSSMQILPIVWNTLTE  
SAAFYVRTEVNYTEEVEDPVDSDGEVLGFENLVFSIFEFVHALLENSKFKSTVKKALPEL  
IYYIILYMQITEEQIKVWTANPQQFVEDEDDTFSYTVRIAAQDLLAVATDFQNESAAA  
LAAAATRLHQAEQTKNSGTEHWWKIHEACMLALGSVKAIITDSVKNGRIHFDMHGFLT  
N  
VILADLNLVSPFLLGRALWAASRFTVAMSPELIQQFLQATVSGLHETQPPSVRISAVRA  
IWGYCDQLKVSESTHVLQPFLPSILDGLIHLAAQFSSEVLNLMETLCIVCTVDPEFTAS  
MESKICPFTIAIFLKYSNDPVVASLAQDIFKELSQTACQGPQMRLIPTLVSIMQAPAD  
KIPAGLCATAIDILTTVVRNTKPLLSQLLICQAFPAVAQCTLHTDDNATMQNGGECLRAY  
VSVTLEQVAQWHDEQGHNGLWYVMQVVSQLLDPRTSEFTAAAFVGRVSTLISKAGRELGE  
NLDQILRAILSKMQAETLSVMQSLIMVFAHLVHTQLEPLLEFLCSLPGPTGKPALEFVM  
AEWTSRQHLFYGGYEGKVSSVALCKLLQHGINADDKRLQDIRVKGEEIYSMDEGIRTRSK  
SAKNPERWTNIPLLVKILKLIINELSNVMEANAARQATPAEWSQDDSNMWDQEEEEEE  
EEDGLAGQLSDILATSKYEEDYEDDEDDPDALKDPLYQIDLQAYLTDFLCQFAQQPC  
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>sp|Q8IWB1|IPRI\_HUMAN Inositol 1,4,5-trisphosphate receptor-interacting protein OS=Homo sapiens GN=ITPRIP PE=1 SV=1

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RLAAEKEALEQVAEEGRQQNETRVAWDLWSTLCMILFLMIEVWRQDHQEGPSPECLGGEE  
DELPGLGGAPLQGLTLPNKATLGHFYERCIRGATADAARTREFLEGFVDDLLEALRSLCN  
RDTMEVEDFIGVDSMYENWQVDRPLLCHLFVPFTPPEPYRFHPELWCSGRSVPLDRQGY  
GQIKVVRADGDTLSCICGKTKLGEDMLCLLHGRNSMAPPCGDMENLLCATDSLYLDTMQV  
MKWFQTALTRAWKGIAHKYEFDLAFGQLDSPGSLKIKFRSGKFMPFNLIPVIQCDDSDLY  
FVSHLPREPSEGTPASSTDWLLSFAVYERHFLRTTLKALPEGACHLSCLQIASFLLSKQS  
RLTGPSGLSSYHLKTALLHLLLRQAADWKAGQLDARLHELLCFLEKSLQKKLHHFFIG  
NRKVPEAMGLPEAVLRAEPLNLFPPFVLQRSLYRKTLDSFYEMLNAPALISEYSLHVPS  
DQPTPKS

>sp|Q86VS3|IQCH\_HUMAN IQ domain-containing protein H OS=Homo sapiens GN=IQCH PE=2 SV=2

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IEKYLVNVNQNLTSVNDESLYTPQASKWLLPTVIDQKSFIFPQESEGTFWQPQRQHSS  
SLPVFPRAKIKVSKLIKGSNISSLTVLPSSHCTDPYFTPPIPVLQADAHKGILSMIERGLI  
PPTARITFQNPPITPRAAPLHSFDEARKIPTVATFTIPREPPPSPAEVKFFPKKQRSKKG  
SRRSRGHHDRKAMKVKTPLRALKSLWDYDFLIYDGVIDNTAPDFLAFKEHFSWGGIFS  
LLEHVEKFLRNYAIPVVKIKGNNLVALLPEFELTNKLTRYDLLSVLEDPAHVQMLINLPG  
QRYKGQDGNSEAAMKIQATWCKYKARKFFLYRQQKWASGVIAIAWLLYCHKTRLKKILK  
ESRQRHLENFRIRAKHLAANWNRIRTSRRTIIHIPSLGYSQPVREHIADFNTQQNMQLGR  
LCDILDANVNIYICSHHMNDELVLYKKILSLHAAVSGNLEDRSDLQDRFKIITPEAV  
NIFPKHHMCLATHLMYSPKAIKRIKNLIRGTEAYIVSGLLHRDDLAVADMLDIPILGSEP  
ELAHLYSTKSGGKRVFDSANVAVPPGIYDIYSQQQMIEQLSQLITDHLQIRWLFKMDSE  
FRNGTAFCDIPSYLKCYKWLKSSRYGLEDWRKKWAQEPALVKISEELAGILAQHAQP  
VNEKRFPTRKFLQTFLSQGGVIEAFPPADNVTNLTVDMLEPNKISVLSTGDQLHAES  
PFISSGTTVPQTSVDPQVLTYLCLQIGKACMRDVGYSIDLVTIDPSTLEQQVWATG  
LNLAISDQLALTQLTYLTNGHLDCSLSTLEVPRFVPKERKTKCMSALSMPLATSRYA  
VMTTQLRHSNLSLVFHYVFLQICRAHGIGYDVEERQGTVFILYEHLKRHLGMLTIGEDL  
QGVLMTFARHLFIHQEISAPNMQGETNFKTTIADIETILRVTKENKMRFEQQSKDDK  
NLSKPKK

>sp|Q8NA54|IQUB\_HUMAN IQ and ubiquitin-like domain-containing protein OS=Homo sapiens  
GN=IQUB PE=1 SV=2

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EEQSDQSFSSLEPDNEQLMEEVISPRQVSYTPQHHEKQYAMQRPNDLSAFLDKIKSVKE  
SLQESVEDSLATVKVVLIPVGQEIVIPFKVDITLKYLDHFSHLLGIPHSVLQIRYSGKI  
LKNNETLVQHGVKPEIVQVEIFSTNPDLVPVRIDGLTDVSQIITVTVQTGLDQYQQVP  
VEIVKSDFHKPFLLGGFRHKVTGVEYHNAGTQTPKRIPERLSIFCRDTQTVFQKKNLQQT  
TNTTSTQMTNIGVYVSNMTDKLVTPGKYFSAAEYHAQRLKAVIVIQTYRQWHAKIFVEN  
LRRQKSLRLEWETQQELRKIREKEEWIKLDYHRRHNPKNEDFEFLYNALFWRQEELTR  
INQSFTGAERKAALCELLEKETQIIASIGRHRYIAYMANQEAAIQAFLDKCSAPKIWRTP  
NGKTIEMDTQFTIRARELNIIYKCIMLKNISQDERLDVLLTLKHTVKEHECKLTQEILEL  
IDREVDLMMRGVKHHNLEGLRKRIATLFFHYIKTPLFNPEVAKYLVKVPQDPLKFYKKIYF  
CHSCQLYLPSTEFVSSTSRRIYRCRNCINLQNEAQKRESFLKYKCLLQQLYYTEADYED  
DSKIAFLMQLDIQYLTENI WASQSVLSACDNLSDLVMVRWNKSLEWSPWNCILLTKDEA  
AAHLKLTSIEEGYERSFIHKIKHKHILAKNYFSQVPVLASFILDDGEIDEIRWKYHSDTT

PKIIESQRPPH

>sp|043187|IRAK2\_HUMAN Interleukin-1 receptor-associated kinase-like 2 OS=Homo sapiens  
GN=IRAK2 PE=1 SV=2

MACYIYQLPSWVLDLRCNMDALSEWDWMEFASYVITDLTQLRKIKSMERVQGV SITREL  
LWWWGMRQATVQQLVDLLCRLELYRAAQIILNWKPAPEIRCPIPAFPD SVKPEKPLAASV  
RKAEDEQE EGQPVRMATFP GPGSSPARAHQPAFLQPPEEDAPHSLRSDLPTSSDSKDFST  
SIPKQEKLLSLAGDSLFWSEADVQATDDFNQNRKISQGT FADVVRGHRHGKPFVFKKL  
ETACSSPGS IERFFQAE LQICLRCHPNVLPVLGFCAARQFHSFIYPY MANGSLQDRLQG  
QGGSDPLPWPQRV SICSGLLCAVEYLHGLEI IHSNVKSSNVLLDQNLTPKLAHPMAHLCP  
VNKR SKYTMMKTHLLRTSAAYLPEDFIRVGQLTKRVDIFSCGIVLAEVLTGIPAMDNNRS  
PVYKDLLLS DIPSSSTASLCSRKTGVENVMAKEICQKYLEKGAGRLPEDCAEALATAACL  
CLRRRNTSLQEVCGSVA AVEERLRGRETLLPWSGLSEGTGSSSNTPEETDDVDNSSL DAS  
SSMSVAPWAGAATPLLPTENGEGR LRVIVGREADSSSEACVGLEPPQDVTETSWQIEINE  
AKRKL MENILLYKEEKVDSIELFGP

>sp|Q00978|IRF9\_HUMAN Interferon regulatory factor 9 OS=Homo sapiens GN=IRF9 PE=1 SV=1

MASGRARCTRKL RNWVVEQVESGQFPGVCWDDTAKTMFRIPWKHAGKQDFREDQDAAFFK  
AWAIFKGYKEGDTGGPAVWKTRLCALNKSSEFKEVPERGRMDVAEPYKVYQLLPPGIV  
SGQPGTKVPSKRQHSSVS SERKEEEDAMQNCTLSPSVLQDSL NNEEEGASGGAVHSDIG  
SSSSSSSPEPQEVTDTEAPFQGDQRSLEFLLPPEPDYSLLLTFIYNGRVVGEAQVQSLD  
CRLVAEPSGSESSMEQVLF PKPGPLEPTQRLLSQLERGILVASNPRGLFVQRLCPIPI SW  
NAPQAPP GPGPHLLPSNECVELFRTAYFCRDLVRYFQGLGPPPKFQVT LNFWEESHGSSH  
TPQNLITVKMEQAFARYLLEQTPEQQAAILSLV

>sp|P05107|ITB2\_HUMAN Integrin beta-2 OS=Homo sapiens GN=ITGB2 PE=1 SV=2

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RCDTRPQLLMRGCAADDIMDPTSLAETQEDHNGGKQLSPQKVTLYL RPGQAAAFNVTFR  
RAKGYPIDLYYLMDSYSMLDDL RNVKKLGDDLRLALNEITESGRIGFGSFVDKTVLPFV  
NTHPDKLRNPCNKEKECQPPFAFRHVLKL TNNSNQFQTEVGKQLISGNLDAPEGGLDAM  
MQVAACPEEIGWRNVTRLLVFATDDGFHFAGDGKLGA ILTPNDGRCHLEDNLYKRSNEFD  
YPSVGQLAHKLAENNIQPIFAVTSRMVKTYEKLTEIIPKSAVGELSEDSSNVVQLIKNAY  
NKLSSRVFLDHNALPDTLKV TYDSFCSNGVTHRNPGRGDCDGVQINVPITFQVKVTATEC  
IQEQSFVIRALGFTDIVTVQVLPQCECRCRDQSRDRSLCHGKG FLECGICRCDTGYIGKN  
CECQTQGRSSQELEGSCRKDNNSIICSGLGDCVCGQCLCHTSDVPGKLIYGQYCECDTIN  
CERYNGQVCGGPGRGLCF CGKCRCHPGFE GSACQCERTTEGCLNPRRVECSGRGRRCNV  
CECHSGYQLPLCQECPGCPSPCGKYISCAECLKFEKGPF GKNC SAACPLQLSNNPVKGR  
TCKERDSEGCWVAYTLEQQDGM DRYLIYVDESRECVAGPNIAAIVGGTVAGIVLIGILL  
VIWKALIHLSDLREYRRFEKEKLKSQWNNDNPLFKSATTVMNPKFAES

>sp|P19823|ITI2\_HUMAN Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens  
GN=ITI2 PE=1 SV=2

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EEMMEEVDQVTLYSYKVQSTITSRMATTMIQSKVVNNSPQPQNVVFDVQIPKGAFISNFS  
MTVDGKTFRSSIKEKTVGRALYAQARAKGKTAGLVRSSALDMENFRTEVNVLP GAKVQFE  
LHYQEVKWRKLGSYEHRIYLQPGRLAKHLEVDVWVIEPQGLRFLHVPDTFEGHFDGVPVI  
SKGQQKAHV SFKPTVAQQRICPNCRETAVDGELVVLYDV KREEKAGELEVFNNGYFVHFFA  
PDNLDPIPKNILFVIDVSGSMWGVKMKQTVEAMKTI LDDLRAEDHFSVIDFNQNI RTWRN

DLISATKTQVADAKRYIEKIQPSGGTNINEALLRAIFILNEANNLGLDPNSVSLIILVS  
DGDPTVGELKLSKIQKNVKENIQDNISLFSLGMGFDVDYDFLKRLSNENHGIAQRIYGNQ  
DTSSQLKKFYNQVSTPLLRNVQFNYPHTSVTDVTQNNFHNYFGGSEIVVAGKFDPKLDQ  
IESVITATSANTQLVLETLAQMDLQDFLSKDKHADPDFTRKLWAYLTINQLLAERSLAP  
TAAAKRRITRSILQMSLDHHIVTPLTSLVIENEAGDERMLADAPPQDPSCCSGALYYGSK  
VVPDSTPSWANPSPTPVISMLAQGSQVLESTPPPHVMRVENDPHFIIYLPKSQKNICFNI  
DSEPGKILNLVSDPESGIVVNGQLVGAKKPNNKGLSTYFGKLGIFYFQSEDIKIEISTETI  
TLSHGSSFTSLSWSDTAQVTNQRVQISVKKEKVVTITLDKEMSFSVLLHRVWKKHPVNVD  
FLGIYIPPTNKFSPKAHGLIGQMFEKPIHIFNERPGKDEKPEASMEVKGQKLIITRGL  
QKDYRTDLVFGTDVTCWFVHNSGKGFIDGHYKDYFVPQLYSFLKRP

>sp|Q86UX2|ITIH5\_HUMAN Inter-alpha-trypsin inhibitor heavy chain H5 OS=Homo sapiens  
GN=ITIH5 PE=2 SV=2

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ISRYAFTTVSCRMLNRASEDQDIEFQMQUIPAAAFITNFTMLIGDKVYQGEITEREKKSGD  
RVKEKRNKTTEENGEKGTEIFRASAVIPSKDKAAFFLSYEELLQRRLGKYEHSISVRPQQ  
LSGRLSVDVNILESAGIASLEVLPLHNSRQRGSGRGEDDSGPPPSTVINQNETFANIFK  
PTVVQQARIAQNGILGDFIIRYDVNREQSIGDIQVLNGYFVHYFAPKDLPLPKNVVFL  
DSSASMVGTKLRQTKDALFTILHDLRPQDRFSIIGFSNRIKVWKDHLISVTPDSIRDGV  
YIHMSPTGGTDINGALQRAIRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKIL  
NNTREAARGQVCIFTIGIGNVDVFRLLLEKLSLENCGLTRRVHEEEDAGSQLIGFYDEIRT  
PLLSDIRIDYPPSSVVQATKTLFPNYFNGSEIIAGKLVDRLDHLHVEVTASNSKKFII  
LKTDVPVRPQKAGKDVGTGSPRPGDGEGDTNHIERLWSYLTTKELLSSWLQSDDEPEKER  
LRQRAQALAVSYRFLTPFTSMKLRGPVPRMDGLEEAHGMSAAMGPEPVVQSVRGAGTQPG  
PLLKKPYQPRIKISKTSVDGDPHFVDFPLSRLTVCFNIDGQPGDILRLVSDHRDSGVTV  
NGELIGAPAPPNGHKKQRTYLRITILINKPERSYLEITPSRVILDGGDRLVLPQNQSVV  
VGSWGLEVSVSANANVTVTIQGSIAFVILIHLYKKPAPFQRHHLGFYIANSEGLSSNCHG  
LLGQFLNQDARLTEDPAGPSQNLTHPLLLQVGEGPEAVLTVKGHQVPVWVKQRKIYNGEE  
QIDCWFARNNAAKLIDGEYKDYLAHPFDTGMTLGQMSREL

>sp|O43736|ITM2A\_HUMAN Integral membrane protein 2A OS=Homo sapiens GN=ITM2A PE=1 SV=2

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SFILAGLIVGGACIYKYFMPKSTIYRGEMCFDSEDPANSLRGGEPNFLPVTEEADIRE  
DNIAIIDVPVPSFSDSPAIIHDFEKGMTAYLDLLLGNCYLMPLNTSIVMPPKNLVELF  
GKLASGRYLPQTYVVREDLVAVEEIRDVSNLGIIFYQLCNNRKSFRLLRRRDLLGFNKRA  
IDKCWKIRHFPNEFIVETKICQE

>sp|Q9NQX7|ITM2C\_HUMAN Integral membrane protein 2C OS=Homo sapiens GN=ITM2C PE=1 SV=1

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LSMGMVLLMGLVFASVYIYRYFFLAQLARDNFFRCGVLYEDSLSSQVRTQMELEEDVKI  
YLDENYERINVPVPQFGGGDPADIIHDFQRGLTAYHDISDKCYVIELNTTIVLPPRNF  
ELLMNVKRGTYLPQTYIIQEEMVVTEHVSDKEALGSFIYHLCNGKDTYRLRRRATRRRIN  
KRGAKNCNAIRHFENTFVVETLICGVV

>sp|Q14571|ITPR2\_HUMAN Inositol 1,4,5-trisphosphate receptor type 2 OS=Homo sapiens  
GN=ITPR2 PE=1 SV=2

MTEKMSSFLYIGDIVSLYAEGSVNGFISTLGLVDDRCVVHPEAGDLANPPKKFRDCLFKV  
CPMNRYSAQKQYWKAKQAKQGNHTEAALLKKLQHAAELEQKQNESENKKLLGEIVKYSNV



IQLLHIKSNKYLTVKNRLPALLEKNAMRVSLDAAGNEGSWFYIHPFWKLRSEGDNIIVGD  
KVVLMVPVNAQQLPHASNIELLDNPGCKEVNAVNCNTSWKITLFMKYSSYREDVLKGGDVV  
RLFHAEQEKFLTCDEYEKKQHIFLRTTLRQSATSATSSKALWEIEVVHHDPCRGGAGQWN  
SLFRFKHLATGNYLAAELNPDYRDAQNEGKNVRDGVPTSKKKRQAGEKIMYTLVSVPHG  
NDIASLFELDATTQRADCLVPRNSYVRLRHLCTNTWVTSTSIPIIDTEERPVMKIGTC  
QTKEDKEAFAIVSVPLSEVRDLDFANDANKVLATTVKKLENGTITQNERRFVTKLLEDLI  
FFVADVPPNNGQEVLDVVITKPNRERQKLMREQNILAQVFGILKAPFKEKAGEGSMRLLED  
LGDQRYAPYKYMLRLCYRVLRHSQQDYRKNQEYIAKNFCVMQSQIGYDILAEDTITALLH  
NNRKLEKHITAKEIETFVSLRRNREPRFLDYLSDLCVSNNTAIPVTQELICKFMLSPG  
NADILIQTKVSMQADNPMESSILSDDIDDEEVWLYWIDSNEKPHGKAIRHLAQEAKEGT  
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LMLMHVDRDPQESVVPVRYARLWTEIPTKITIHEYDSITDSSRNDMKRKFALTMFVVEE  
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SSYFERLSKQDGGNNVMRTIHGVGEMMTQMVLSRGSIFPMSVPDVPPSIHPSKQGSPT  
HEDVTVMDTKLKIEILQFILSVRLDYRISYMLSIYKKEFGEDNDNAETSASGSPDTLLP  
SAIVPDIDEIAAQAETMFAGRKEKNPVQLDDEGGRTFLRVLIHLIMHDYPPLSGALQLL  
FKHFSQRAEVLQAFKQVQLLVSNQDQVNYKQIKADLDQLRLTVEKSELWVEKSSNYENGE  
IGESQVKGGEEPIEESNILSPVQDGTKKPQIDSNSNNYRIVKEILIRLSKLCVQNKCCR  
NQHQRLLLKNMGAHSVVLDLLQIPYEKNDEKMNEVMNLAHTFLQNFCRGNPQNQVLLHKHL  
NLFLTPLGLEAETMRHIFMNNYHLCNEISERVVQHVFHCHIEHGRHVEYLRFLQTIKAD  
GKYVKKCQDMVMTELINGGEDVLIFYNDRASFPILLHMMCSEDRGDESGPLAYHITLVE  
LLAACTEGKNVYTEIKCNSLLPLDDIVRVVTHDDCIPEVKIAYVNFVNHCVVDTEVEMKE  
IYTSNHIWKL FENFLVDMARVCNTTTDRKHADIFLEKCVTESIMNIVSGFFNSPFSNST  
SLQTHQPVFIQLLQSAFRIYNCTWPNPAQKASVESCIRTLAEVAKNRGIAIPVDLDSQVN  
TLFMKSHSNMVQRAAMGWRLSARSGPRFKEALGGPAWDYRNIIEKLQDVVASLEHQFSPM  
MQAEFSVLVDVLYSPELLFPEGSDARIRCGAFMSKLINHTKKLMEKEEKLCKIKILQTLRE  
MLEKKDSFVEEGNTRKILLNRYFKGDYSIGVNGHLSGAYSKTAQVGGSFSGQSDKMG  
SMSDIQCLLDKEGASELVIDIVNTKNDRIFSEGI FLGIALLEGNTQTQYSFYQQLHEQ  
KKSEKFFKVLYDRMKAQKEIRSTVTVNTIDLGNKKRDDDNELMTSGPRMRVRDSTLHLK  
EGMKGQLTEASSATSKAYCVYRREMDPEIDIMCTGPEAGNTEEKSAEEVTMSPAIAIMQP  
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NVALVNQNLESLTEYCQGPCHENQTCIATHESNGIDIIIALILNDINPLGKYRMDLVLQL  
KNNASKLLLAIMESRHDSENAERILFNMRPRELVDVMKNAYNQGLECDHGDDEGGDDGVS  
PKDVGHNIIYILAHQLARHNKLLQQLKPGSDPDEGDEALKYYANHTAQIEIVRHRDTMEQ  
IVFPVPNICEYL TRESKCRVFNTERDEQGSKVNDFFQQTEDLYNEMKWQKKIRNNPALF  
WFSRHISLWGSISFNLAVFINLAVALFYPFGDDGDEGTLSPLFSVLLWIAVAICTSMLFF  
FSKPVGIRPFLVSIMLRSIYITIGLPTLILLGAANLCNKIVFLVSFVGNRGTFTRGYRAV  
ILDMAFLYHVAYVLVCMGLFVHEFFYSFLLFDLVYREETLLNVIKSVTRNGRSIILTAV  
LALILVYLFSSIIGFLFLKDDFTMEVDRLKNRTPVTGSHQVPTMTLTMMMEACAKENCST  
IPASNTADEEYEDGIERTCDTLLMCIVTVLNQGLRNGGGVGDVLRPSKDEPLFAARVVY  
DLLFYFIVIIIVLNLIFGVIIDTFADLRSEKQKKEEILKTTCFICGLERDKFDNKTVSFE  
EHIKSEHNMWHYLYFIVLVKVKDPTEYTGPESYVAQMIVEKNLDWFPRMRAMSLVSNEGD  
SEQNEIRSLQEKLESTMSLVKQLSGQLAELKEQMTQQRKNKQRLGFLGSNTPHVNHHMPP  
H

>sp|Q92613|JADE3\_HUMAN Protein Jade-3 OS=Homo sapiens GN=JADE3 PE=1 SV=1

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NPDSYYLFADTWKEEWEKGVQPASPDTVPQPSLRITIAEKVKDVLFI RPRKYIHCSSPDT  
TEPGYINIMELAASVCYDLDDMDIFWLQELNEDLAEMGCGPVDENLMEKTVEVLERHCH  
ENMNHAIEETEGLGIEYDEDEVICDVC RSPDSEEGNDMVFCDKCNVCVHQACYGILKVPEG  
SWLCRSCV LGIYPQCVLCPKKGALKTTKTG TKWAHVSCALWIPEVSIACPERMEPI TKI  
SHIPPSRWALVCNLCKLKTGACIQCSIKSCITAFHVTC AFEHGLEMKTILDEGDEVKFKS  
YCLKHSQNRQKLGEAEYPHHRAKEQSQA KSEKTS LRAQKLRELEEEFYSLVRVEDVAAEL  
GMPTLAVDFIYNYWKLKRKSNFNKPLFP PKEDEENGLVQPKEESIHTMRMFMHLRQDLE  
RVRNLCYMISRREKLKLSHNKIQE QIFGLQVQLLNQEIDAGLPLTNALENSLFYPPPRIT  
LKLKMPKSTPEDHRNSTETDQ QPHSPDSSSSVHSIRNMQVPQESLEMRTKSYPRYPLES  
KNNRLLASLSHSRSEAKESSPAWRTPSSECYHGQSLGKPLVLQAALHGQSSIGNGKSQPN  
SKFAKSNGLGSGWSGNVTQKDSSEMFC DQEPVFSPhLV SQGSFRKSTVEHF SRSFKETT  
NRWVKNTEDLCQYVKPTKNMSPKEQFWGRQVLRRSAGRAPYQENDGYCPDLELSDSEAES  
DGNKEKVRVRKDS DRENPPHDSRRDCHGKSKTHPLSHSSMQR

>sp|P52333|JAK3\_HUMAN Tyrosine-protein kinase JAK3 OS=Homo sapiens GN=JAK3 PE=1 SV=2

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SGILPVYHSLFALATEDLSCWFPPSHIFSVEDASTQVLLYRIRFYFPNWFGLKCHRFGL  
RKDLASAILDLPVLEHLFAQHRS DLVSGRLPVGLSLKEQGECLSLAVLDLARMAREQAQR  
PGELLTVSYKACLPPSLRDLIQGLSFVTRRRIRRTVRRALRRVAACQADRHS LMAKYIM  
DLERLDPAGAAETFHVGLPGALGGHDGLGLLRVAGDGGIAWTQGEQEVLPFCDFPEIVD  
ISIKQAPRVGPAGEHRLVTVTRTDNQILEAEFPGLPEALS FVALVDGYFRLTTDSQHFFC  
KEVAPPRLLEEVAEQCHGPITLDFAINKLKTGGS RPGSYVLRSPQDFDSFLLTVCVQNP  
LGPDYKGCLIRRSPTGTFLLVGLSRPHSSLRELLATCWDGGLHVDGVAVTLTSCCIPRPK  
EKSNLIVVQRGHSPTSSLVQPQSQYQLSQMTFHKIPADSLEWHENLGHGSFTKIYRGCR  
HEVVDGEARKTEVLLKVMDAKHKNCMESFLEAASLMSQVS YRHLVLLHGVC MAGDSTMVQ  
EFVHLGAIDMYLRKRGHLPASWKLQVVKQLAYALNYLEDKGLPHGNVSARKVLLAREGA  
DGSPPIKLSDPGVSPAVLSLEMLTDRIPWVAPECLREAQ TLSLEADKWGFATVWEVFS  
GVTMPISALDPAKKLQFYEDRQQLPAPKWTELALLIQ QCMAYEPVQRPSFRAVIRDLSL  
ISSDYELLSDPTPGALAPRDGLWNGAQLYACQDPTIFEERHLKYISQLGKGNFGSVELCR  
YDPLGDNTGALVAVKQLQHSGPDQQRDFQREIQILKALHSD FIVKYRGVSYGPGRQSLRL  
VMEYLP SGCLRDFLQRHARLDASRLLYSSQICKGMEYLGSRRCVHRDLAARNILVESE  
AHVKIADFGLAKLLPLDKDYVVREPGQSPIFWYAPESLSDNIFSRQSDVWSFGVVLYEL  
FTYCDKSCSPSAEFLRMGCERDVPALCRLLELLEEGQRLPAPPACPAEVHELMKLCWAP  
SPQDRPSFSALGPQLDMLWSGSRGCETHAFTAHP EGKHHSLSFS

>sp|Q9Y624|JAM1\_HUMAN Junctional adhesion molecule A OS=Homo sapiens GN=F11R PE=1 SV=1

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EWKFDQGD TTRLVCYNKITASYEDRVTFLPTGITFKSVTREDTGT YTCMVSEEGNSYG  
EVKVKLIVLVPPSKPTVNIPSSATIGNRAVLT CSEQDGSPPEYTWFKDGIVMPTNPKST  
RAFSNSSYVLNPTTGELVFDPLSASDTGEYSCEARNGYGT PMTSNAVRMEAVERNVGVIV  
AAVLVT LILLGILVFGIWFAYS RGHFDRTKKGTSSKKVIYSQPSARSEGEFKQTSSFLV

>sp|O60271|JIP4\_HUMAN C-Jun-amino-terminal kinase-interacting protein 4 OS=Homo sapiens  
GN=SPAG9 PE=1 SV=4

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LDSVFAQDQEHQVELELLRDDNEQLITQYEREKALRKHAEEKFIEFEDSQEQEKKDLQTR  
VESLESQTRQLELKAKNYADQISRLEEREAEKKEYNALHQRHTEMIHNYMEHLERTKLH  
QLSGSDQLESTASHRIRKERPISLGIFPLPAGDGLLTPDAQKGETPGSEQWKFQELSQP  
RSHTSLKVSNSPEPQKAVEQEDELSDVSQGGSKATTPASTANSDVATIPTDTPLKEENEG  
FVKVTDAPNKSEISKHIEVQVAQETRVSTGSAENEEKSEVQAI IESTPELDMDKDLSGY  
KGSSTPTKGIENKAFDRNTESLFEELSSAGSGLIGDVDEGADLLGMGREVENLILENTQL  
LETKNALNIVKNDLIAKVDLTCEKDLQGELEAVKQAKLKLEEKRELEEELRKARAEA  
EDARQKAKDDDDSDIPTAQRKRFRVEMARVLMERNQYKERLMELQEAVRWTEMIRASRE  
NPAMQEKKRSSIWQFFSRLFSSSSNTTKKPEPPVNLKYNAPTSHVTPSVKKRSSTLSQLP  
GDKSKAFDFLSEETEASLASRREQKREQYRQVKAHVQKEDGRVQAFGWSLPQKYKQVTNG  
QGENMKMLPVPVYLRPLDEKDTSMKLWCAVGVNLSGGKTRDGGSVVGASVFKDVAGLD  
TEGSKQRSASQSSLDKLDQELKEQQKELKNQEELSSLVWICTSTHSATKVLIIDAVQPGN  
ILDSFTVCNSHVLCIASVPGARETDYPAGEDLSESGQVDKASLCGSMTSNSSAETDSSLG  
GITVVGCSAEGVTGAATSPSTNGASPVMDKPPMEMAENSEVDENVPTAEATEATEGNAG  
SAEDTVDISQTGVYTEHVFTDPLGVQIPEDLSPVYQSSNDSAYKDQISVLPNEQDLVRE  
EAQKMSLLPTMWLGAQNGCLYVHSSVAQWRKCLHSIKLKDSILSIVHVGIVLVALADG  
TLAIFHRGVDGQWDLSNYHLLDLGRPHHSIRCMTVVHDKVWCGYRNKIYVVQPKAMKIEK  
SFDAPRKESQVRQLAWVGDVVWSIRLDSTLRLYHAHTYQHLQDVDIEPYVSKMLGTGK  
LGFSSFVRITALMVSCNRLWVG TGNGV IISIPLTETNKTSGVPGNRPGSVIRVYGDENSDK  
VTPGTFIPIYCSMAHAQLCFHGHRAVKFFVAVPGQVISPQSSSSGTDLTGDKAGPSAQEP  
GSQTPLKSM LVISGGEYIDFRMGDEGGESELLGEDLPLEPSVTKAERSHLIVWQVMYGN  
E

>sp|Q96N16|JKIP1\_HUMAN Janus kinase and microtubule-interacting protein 1 OS=Homo sapiens  
GN=JAKMIP1 PE=1 SV=1

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RDGAADKVKTALLTEAREEARAFDGERLRLQQEILELKAARKQAEALSNCMQADKTKA  
ADLRAAYQAHQDEVHRIKRECDIRRLMDEIKGKDRVILALEKELGVQAGQTQKLLQK  
EALDEQLVQVKEAERHHSSPKRELPPGIGDMVELMGVQDQHMDERDVRRFQLKIAELNSV  
IRKLEDRNTLLADERNELLRKRSRETEVQLKPLVEKNKRMNKNEDLLQSIQRMEEKIKNL  
TRENVMKEKLSAQASLKRHTSLNDLSLTRDEQEIEFLRLQVLEQQHVIDDLSLERERLL  
RSKRHRGKSLKPPKHVVETFFGFDEESVDSETLSETSNTDRTDRTPATPEEDLDDATA  
REEADLRFCQLTREYQALQRAYALLQEQQVGGTLDAEREARTREQLQADLLRCQAKIEDLE  
KLLVEKGQDSKWVEEKQLLIRTNQDLLEKIYRLEMEENQLKNEMQDAKDQNELLEFRVLE  
LEVRDSICCKLSNGADILFEPKLFM

>sp|Q6NYC1|JMJD6\_HUMAN Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6  
OS=Homo sapiens GN=JMJD6 PE=1 SV=1

MNHKSKKRIREAKRSARPELKDSLWTRHNYYESFSLSPAADVADNVERADALQLSVEEFV  
ERYERPYPKVLLNAQEGWSAQEKWTLERLKRKYRNQKFKCGEDNDGYSVKMKMKYYIEY  
MESTRDDSPLYIFDSSYGEHPKRRKLLLEDYKVPKFFTDDLQYAGEKRRPPYRWFVMGPP  
RSGTGIHIDPLGTSAWNALVQGHKRWCFLPTSTPRELIKVTRDEGNGQDEAITWFNVIY  
PRTQLPTWPPEFKPLEILQKPGETVFPVGGWWHVNLNDDTTIAITQNFASSTNFPVVVHK  
TVRGRPKLSRKWYRILKQHEPELAVLADSVDLQESTGIASDSSSDSSSSSSSSSDSE  
CESGSEGDTVHRRKKRRTCSMVGNDDTTSQDDCVSKERSSSR

>sp|Q96MG2|JSPR1\_HUMAN Junctional sarcoplasmic reticulum protein 1 OS=Homo sapiens  
GN=JSRP1 PE=1 SV=1

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TRPKKMEKEPAARGTPGTGKERLKAGASPRSVPAKKAQTAPPLQPPPPPPALSEELPWG  
DLSLNKCLVLASLVALLGSAFQLCRDAVPGEAALQARVPEPWVPPSSAPREPSSPLPKFE  
AQAPPSAPPAPRAEAEVRPKIPGSREAAENDEEPEGATGEAVREDRVTLADRGPKERPR  
REGKPRKEKPRKEERPKEERPRKEERPRAAREPREALPQRWESREGGHRPWARDSDAEP  
RKKQAWVSPRRPDEEQRPQSRQKLRAGKGRD

>sp|P17535|JUND\_HUMAN Transcription factor jun-D OS=Homo sapiens GN=JUND PE=1 SV=3

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SQFLYPKVAASEEQEFAEGFVKALEDLHKQNQLGAGAAAAAAAAAAGPGSGTATGSAPPG  
ELAPAAAPEAPVYANLSSYAGGAGGAGGAATVAFAAEPVPFPPPPPGALGPPRLAALK  
DEPQTPDPVPSFGESPPLSPIDMDTQERIKAEKRRLRNRI AASKCRKRKLERISRLEEKV  
KTLKSQNTELASTASLLREQVAQLKQKVLSHVNSGCQLLPQHQPAY

>sp|A6ND01|JUNO\_HUMAN Sperm-egg fusion protein Juno OS=Homo sapiens GN=IZUM01R PE=1 SV=3

MACWWPLLELWTVMPTWAGDELLNICMNAKHHKRVSPEDKLYEECIPWKDNACCTLT  
SWEAHLDVSPLYNFSLFHCGLLMPGCRKHFIQAICFYECSPNLGPWIIQPVGSLGWEVAPS  
GQGERVVNPLCQEDCEEWWEDCRMSYTCKSNWRGGWDWSQGKNRCPKGAQCLPFSHYFP  
TPADLCEKTWSNSFKASPERNSGRCLQKWFEPAQGNPNVAVARLFASSAPSWELSYTIM  
VCSLFLPFLS

>sp|Q9Y5U9|IR3IP\_HUMAN Immediate early response 3-interacting protein 1 OS=Homo sapiens  
GN=IER3IP1 PE=1 SV=1

MAFTLYSLLQAALLCVNAIAVLHEERFLKNIGWGTDAQIGGFGEPEGIKS QLMNLIRSVR  
TVMRVPLIIIVNSIAIVLLLLFG

>sp|P78411|IRX5\_HUMAN Iroquois-class homeodomain protein IRX-5 OS=Homo sapiens GN=IRX5  
PE=1 SV=3

MSYPQGYLYQPSASLALYSCPAYSTSVISGPRTDELGRSSSGSAFSPYAGSTAFTAPSPG  
YNSHLQYGADPAAAAAAAFSSYVGSPYDHTPGMAGSLGYHPYAAPLGSYPYGDPA YRKNA  
TRDATATLKAWLNEHRKNPYPTKGEKIMLAIITKMTLTQVSTWFANARRRLKKNKMTWT  
PRNRSEDEEEENIDLEKNEDEPQKPEDKGDPEGPEAGGAEQKAASGCERLQGPPTPAG  
KETEGSLSDSDFKEPPSEGRDLALQGPPRTGGPSPAGPAAARLAEDPAPHYPAGAPAPGP  
HPAAGEVPPGPGGPSVIHSPPPPPPAVLAKPKLWSLAEIATSSDKVKDGGGGNEGSPCP  
PCPGPIAGQALGGRASPAPAPSRPSAQCPFPGGTVLSRPLYTAPFYPGYTNYGSFGH  
LHGHPGPGPPTTGPESHFNGLNQTVLNRADALAKDPKMLRSQSQLDLCKDSPYELKKGM  
SDI

>sp|P78412|IRX6\_HUMAN Iroquois-class homeodomain protein IRX-6 OS=Homo sapiens GN=IRX6  
PE=2 SV=3

MSFPHFGHPYRGASQFLASASSSTTCCESTQRSVSDVASGSTPAPALCCAPYDSRLLGSA  
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PGAYYPYERTLGQYQYERYGAVELSGAGRRKNATRETTSTLKAWLNEHRKNPYPTKGEKI  
MLAIITKMTLTQVSTWFANARRRLKKNKMTWAPKNKGGEERKAEGGEEDSLGCLTADTK  
EVTASQEARGRLSDLEDLEEEEEEEEEAEDEEVVATAGDRLTEFRKGAQSLPGPCAAAR  
EGRLERRECGLAAPRFSFNDPSGSEEADFLSAETGSPRLTMHYPCLEKPRIWSLAHTATA

SAVEGAPPARPRRSPECRMIPGQPPASARRLSVPRDSACDESSCIPKAFGNPKFALQGL  
PLNCAPCPRRSEPVVQCQYPSGAEAG

>sp|P0C7L1|ISK8\_HUMAN Serine protease inhibitor Kazal-type 8 OS=Homo sapiens GN=SPINK8  
PE=3 SV=1

MKGICSDAILVLATSMWMAFAIDFPLPMASERGQLDKTIVECLKNVNKCWFLSYIKPSEP  
ICGSDQVTYSSDCHLCSKILFEGLNITKLYDGCENS

>sp|P61371|ISL1\_HUMAN Insulin gene enhancer protein ISL-1 OS=Homo sapiens GN=ISL1 PE=1  
SV=1

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RDGKTYCKRDYIRLYGIKCAKCSIGFSKNDFVMRARKVYHIECFRCVACSRQLIPGDEF  
ALREDGLFCRADHDVVERASLGAGDPLSPLHPARPLQMAAEPISARQPALRPHVHKQPEK  
TTRVRTVLNEKQLHLTRTCYAANRPDALMKEQLVEMTGLSPRVIRVWFQNKRCDDKKRS  
IMMKQLQQQQPNDKTNIQGMTGTPMVAASPERHDGGLQANPVEVQSYQPPWKVLSDFALQ  
SDIDQPAFQQLVNFSEGGPGSNSTGSEVASMSSQLPDTPNMVASPIEA

>sp|Q6H9L7|ISM2\_HUMAN Isthmin-2 OS=Homo sapiens GN=ISM2 PE=2 SV=1

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EEAPLLPRTHLQAEPHQHCWTVTEPAAMTPGNATPPRTPEVTPLRLELQKLPGLANTTL  
STPNPDTQASASPDPRPLREEEEARLLPRTHLQAEHQHCWTVTEPAALTPGNATPPRT  
QEVTPLLLELQKLPVLVHATLSTPNPDNQVTIKVVEDPQAEVSIDLLAEPSNPPQDTLS  
WLPALWSFLWGDYKGEKDRAPGEKGEKEEDEDYPSEDIEGEDQEDKEDEEEQALWFN  
GTTDNWDQGWLAPGDWVFKDSVSYDYEPQKEWSPWSPCSGNCSTGKQQRTRPCGYGCTAT  
ETRCDLPSCPGTEDKDTLGLPSEEWKLLARNATDMHDQDVSCEKWLNCKSDFLIKYLS  
QMLRDLPSPCPCAYPLEAMDSPVSLQDEHQGRSFRWRDASGPRERLDIYQPTARFCLRSML  
SGESSTLAAQHCCYDEDSRLLTRGKGAGMPNLISTDFSPKLHFKFDTTPWILCKGDWSRL  
HAVLPPNNGRACTDNPLEEEYLAQLQEKEY

>sp|Q2M1V0|ISX\_HUMAN Intestine-specific homeobox OS=Homo sapiens GN=ISX PE=2 SV=2

MCAEVGPALCRGMERNSLGCCEAPKKLSLSFSIEAILKRPARRSDMDRPEGPGGEGPGEA  
AASGSGLEKPKDQPEGRKSKRRVRTTFTTEQLHELEKIFHFTHYPDVHIRSQLAARIN  
LPEARVQIWFQNQRAKWRKQEKIGNLGAPQQLEASVALPTNLDVAGPTWTSTALRRLAP  
PTSCCPSAQDQLASAWFPAWITLLPAHPWETQVPVGLPIHQTCIPVLCILPPHPKWGSI  
CATST

>sp|Q13349|ITAD\_HUMAN Integrin alpha-D OS=Homo sapiens GN=ITGAD PE=1 SV=2

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KGSCLLLGSRWEIIQTPDATPECPHQEMDIVFLIDGSGSIDQNDFNQMKGFVQAVMGQF  
EGTDTLFLALMQYSNLLKIHFTFTQFRTSPSQSLVDPIVQLKGLTFTATGILTVVTQLFH  
HKNGARKSAKKILIVITDGQKYKDPLEYSDVIPQAEKAGIIRYAIGVGHAHQGPTARQEL  
NTISSAPPQDHVFKVDNFAALGSIQKQLQEKIYAVEGTQSRASSSFQHEMSQEGFSTALT  
MDGLFLGAVGSFWSGGAFLYPPNMSPTFINMSQENVDMRDSYLGSTELALWKGVQNLV  
LGAPRYQHTGKAVIFTQVSRQWRKKA EVTGTQIGSYFGASLCSVDVSDGSTDILIGAP  
HYEQTRGGQVSVCLPRGRVQWQCDAVLRGEQGHWPGRFGAALTVLGDVNEDKLIDVAI  
GAPGEQENRGAVLYFHGASESGISPSHSQRIASSQLSPRLQYFGQALSGGQDLTQDGLMD  
LAVGARGQVLLLRSLPVLKVGAMRFSPEVAVKAVYRCWEEKPSALEAGDATVCLTIQKS  
SLDQLGDIQSSVRFDLALDPGRLTSTRALFNETKNPTLTRRKTGLGIHCETLKLPLDCV

EDVVSPIILHLNFSVLVREPIPSQNLRPVLAVGSQDLFTASLPFEKNCQDGLCEGDLGV  
TLSFSGLQTLTVGSSLELNVIVTVWNAGEDSYGTVVSLYYPAGLSHRRVSGAQKQPHQSA  
LRLACETVPTEDGLRSSRCSVNHPHFHEGSNGTFIVTFDVSYKATLGDRMLMRASASSE  
NNKASSSKATFQLELPVKYAVYTMISRQEESTKYFNFATSDEKKMKEAEHRYRVNNLSQR  
DLAISINFWVPVLLNGVAVWDVMEAPSQSLPCVSEKPPQHSDFLTQISRSPMLDCSIA  
DCLQFRCDVPSFSVQEELDFTLKGNLSFGWVRETLQKKVLVVSVAEITFDTSVYSQLPGQ  
EAFMRAQMEMVLEEDEVYNAIPIIMGSSVGALLLLALITATLYKLGFFKRHYKEMLEDKP  
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>sp|P11215|ITAM\_HUMAN Integrin alpha-M OS=Homo sapiens GN=ITGAM PE=1 SV=2

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GLCFLFGSNLRQQPKFPEALRGCPQEDSDIAFLIDGSGSIIPHDFRRMKFEVSTVMEQL  
KKSCTLFSLMQYSEEFRIHFTFKEFQNNPNPRSLVKPITQLLGRTHATGIRKVVRELFN  
ITNGARKNAFKILVVIDGKEFGDPLGYEDVPEADREGVIRYVIGVGDAFRSEKSRQEL  
NTIASKPPRDHVQVNNFEALKTIQNQLREKIFAIEGTQTGSSSSFEHEMSQEGFSAAIT  
SNGPLLSTVGSYDWAGGVFLYTSKEKSTFINMTRVDSMDNDAYLGAAAAIILNRVQSLV  
LGAPRYQHIGLVAMFRQNTGMWESNANVKGTQIGAYFGASLCSVDVDSNGSTDLVLIGAP  
HYYEQTRGGQVSVCPLPRGRARWQCDAVLYGEQGQPWGRFGAALTVLGDVNGDKLTDVAI  
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LTVGAQGHVLLLRSPVLRVKAIMEFNPREVARNVFECNDQVVGKEAGEVRVCLHVQKS  
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CIEDPVSPIVLRLNFSLVGTPLSAFGNLRPVLAEADAQRLFTALFPFEKNCGNDNICQDDL  
SITFSFMSLDCLVGGPREFNVTVTRNDGEDSYRTQVTFFFPLDLSYRKVSTLQNQRSQ  
RSWRLACESASSTEVSALKSTSCSINHPIFPENSEVTFNITFDVDSKASLGKLLKAN  
VTSENNMPRTNKTEFQLELPVKYAVYMMVVTSHGVSTKYLNFTASENSTRVMQHQQVSNL  
GQRSLPISLVFLVPVRLNQTIVWDRPQVTFSENLSSTCHTKERLPSHSDFLAELRKAPVV  
NCSIAVCQRIQCDIPFFGIQEEFNATLKGNLSFDWYIKTSHNHLLIVSTAEILFNDVFT  
LLPGQGAFVRSQTETKVEPFEVNPPLPLIVGSSVGGLLLALITAALYKLGFFKRQYKDM  
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>sp|P20702|ITAX\_HUMAN Integrin alpha-X OS=Homo sapiens GN=ITGAX PE=1 SV=3

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YLTGLCFLLGPTQLTQRLPVSRQECPRQEQDIVFLIDGSGSISSRNFATMMNFVRAVISQ  
FQRPSTQFSLMQFSNKFQTHFTFEFRSSNPLSLLASVHQLQGFTYTATAIQNVVHRLF  
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LNDIASKPSQEHIFKVEDFDALKDIQNQLKEKIFAIEGTETTSSSSFELEMAQEGFSAVF  
TPDGPVLGAVGSFTWSSGAFLYPPNMSPTFINMSQENVDMRDSYLGSTELALWKGVQSL  
VLGAPRYQHTGKAVIFTQVSRQWRMKA EVTGTQIGSYFGASLCSVDVDSGSDTLVLIGA  
PHYYEQTRGGQVSVCPLPRGWRRWWCDAVLYGEQGHWPGRFGAALTVLGDVNGDKLTDVV  
IGAPGEEENRGAVYLFHGVLPISPSHSQRIAGSQLSSRLQYFGQALS GGQDLTQDGLV  
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RSKNLLGSRDLQSSVTLDLALDPGRLSRATFQETKNRSLSRVRVLGLKAHCENFNLLLP  
SCVEDSVTPITLRLNFTLVGKPLLAFRNLRPLAADAQRYFTASLPFEKNCGADHICQDN  
LGISFSFPGLKSLLVGSNLELNAEVMVWNDGEDSYGTTITFSHPAGLSYRYVAEGQKQGG

LRSLHLTCD SAPVGSQGTWSTSCRINHLIFRGAQITFLATFDVSPKAVLGDRLLLTANV  
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GQRDLPV SINFWVPVELNQEAVWMDVEVSHPNPSLRCSSEKIAPPASDFLAHIQKNPVL  
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>sp|P05106|ITB3\_HUMAN Integrin beta-3 OS=Homo sapiens GN=ITGB3 PE=1 SV=2

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AFVDKPVSPYMYISPPEALENPCYDMKTTCLPMFGYKHVLTLDQVTRFNEEVKKQSVSR  
NRDAPEGGFDAIMQATVCDEKIGWRNDASHLLVFTTDAKTHIALDGRLAGIVQPDGQCH  
VGSDNHYSASTTMDYPSLGLMTEKLSQKNINLIFAVTENVNLYQNYSELIPGTTVGVL  
MDSSNLVLQIVDAYGKIRSKVELEVRLPEELSLSFNATCLNNEVIPGLKSCMGLKIGDT  
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CRDEIESVKELKDTGKDAVNCTYKNEDDCVVRFFQYYEDSSGKSILYVVEEPCPKGPDIL  
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>sp|Q9UKP3|ITBP2\_HUMAN Integrin beta-1-binding protein 2 OS=Homo sapiens GN=ITGB1BP2 PE=1  
SV=1

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>sp|Q6UXX5|ITIH6\_HUMAN Inter-alpha-trypsin inhibitor heavy chain H6 OS=Homo sapiens  
GN=ITIH6 PE=2 SV=1

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DGDPHFVIQIPHSEEKICFTLNGHPGDLQLIEDPKAGLHVSGKLLGAPPRPGHKDQTRT  
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LGPYLEFLVLRHRYRHPSTLQLPHLGFYVANGSGLSPSARGLIGQFQHADI RLVTGPMGP  
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>sp|Q08881|ITK\_HUMAN Tyrosine-protein kinase ITK/TSK OS=Homo sapiens GN=ITK PE=1 SV=1

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HPNFWMDGKWCCSQLEKLATGCAQYDPTKNASKKPLPPTPEDNRRPLWEPEETVVI  
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RDLAARNCLVGENQVIKVSDFGMTRFVLDDQYTSSTGTFKFPVKWASPEVFSFSRYSSKSD  
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>sp|Q8WWU7|ITLN2\_HUMAN Intellectin-2 OS=Homo sapiens GN=ITLN2 PE=2 SV=1

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>sp|Q14643|ITPR1\_HUMAN Inositol 1,4,5-trisphosphate receptor type 1 OS=Homo sapiens  
GN=ITPR1 PE=1 SV=3

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MLKIGT SPVKEDKEAFAIVPVSPA EVRDLDFANDASKVLGSIAGKLEKGTITQNERRSVTK  
LLEDL VYFVTGGTNSGQDVLEVVF SKPNRERQKLMREQNILKQIFKLLQAPFTDCG  
DGPMRLLEE LGDQRHAPFRHICRLCYRVL RHSQQDYRKNQEYIAKQFGFMQKQIGYDV  
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ICKAVLNPT NADILIETKLVLSRFEFEGVSSTGENALEAGEDEEEVWLFWRDSNKEIR  
SKSVRELAQDA KEGQKEDRDVLSYYRYQLNLFARMCLDRQYLAINESGQLD  
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VEEYLRDVVCQRFPPSDKEKNKLTFEVVNLARNLIYFGFYNFSDLLRLTKILLAILDCVH  
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ELVPAEETEQDKEHTCETLLMCIVTVLSHGLRSGGGVGDVLRKPSKEEPLFAARVIYDLL  
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>sp|Q96ST2|IWS1\_HUMAN Protein IWS1 homolog OS=Homo sapiens GN=IWS1 PE=1 SV=2

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>sp|P78504|JAG1\_HUMAN Protein jagged-1 OS=Homo sapiens GN=JAG1 PE=1 SV=3

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PCLLHKHGHSECPSGQSCIPILDDQCFVHPCTGVGECRSSSLQPVKTKCTSDSYQDNCAN  
ITFTFNKEMMSPGLTTEHICSELRLN LNILKNVSAEYSIYIACEPSPSANNEIHVAISAED  
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WICCLVTAFYWCLRKRKPGSHTHSASEDNTNNVREQLNQIKNPIEKHGANTVPIKDYE  
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>sp|Q9H9V9|JMJD4\_HUMAN JmjC domain-containing protein 4 OS=Homo sapiens GN=JMJD4 PE=1  
SV=2

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YLKDWHLCRDFPVEDVFTLPVYFSSDWLNEFDALDVEDDYRFVYAGPAGSWSPFHADIFR  
SFSWSVNVCGRKKWLLFP PGQEEALDRHG NLPYDVTSPALCDTHLHPRNQLAGPPLEIT  
QEAGEMVFVPSGWHH QVHNLD D TISINHNWVNGFNLANMWRFLQQELCAVQEEVSEWRDS  
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>sp|Q8IV33|K0825\_HUMAN Uncharacterized protein KIAA0825 OS=Homo sapiens GN=KIAA0825 PE=2  
SV=2

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>sp|Q9ULG3|K1257\_HUMAN Uncharacterized protein KIAA1257 OS=Homo sapiens GN=KIAA1257 PE=2  
SV=2

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>sp|Q9BY89|K1671\_HUMAN Uncharacterized protein KIAA1671 OS=Homo sapiens GN=KIAA1671 PE=1  
SV=2

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>sp|Q8N8K9|K1958\_HUMAN Uncharacterized protein KIAA1958 OS=Homo sapiens GN=KIAA1958 PE=1  
SV=1

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TDMGSVWYEEQRMGLRSLRGIVPNLAKKVLENCENFTFVSFTQVSRRLGSHSCCQ

>sp|Q6NSI8|K1841\_HUMAN Uncharacterized protein KIAA1841 OS=Homo sapiens GN=KIAA1841 PE=2  
SV=2

MSRGYSENNNFLNNNNQMVLDMILYPLIGIPQTINWETIARLVPLTPKECAKRFDLKS  
SGSSPDVNQYNSLMAAGESPVETLATYIKSSLLDIHGEFQETPVGHDAVSKTGRHSIAST  
RNCSSSESENCTTHNGGEMTEESEGNMV IHVCDEAKNLKEDFTCPDLLISEMKYFAEYL  
SMDAQRWEEVDISVHCDVHIFNWLKIYIKRNTKENKDCEMPTLEPGNVISILISSEFLKM  
DSLVEQCIQYCHKMNAIVATPCNMNCINANLLTRIADLFHNEVDDLKDKDKFKSKLF  
CKKIERLFDPEYLNPDSSNAATLYRCCLCKLLTKETERRIPCIPGKINVDRGNIVYI  
HIRDKTWDVHEYLNLSFEELKSWRDVYWRLWGTINWLTCSRQYQAFLCIEFSHCQYHSET  
VVYPTAASSLNTVGTGIYPCCNQKVLRFDPQTQTKGCKVRDHMVTLRDQGEAGDLPSQPT  
ARMLDDLHKYRDVIVVPFSKDTVSDVGVLCDKEKIECDVLEPNTPWGPKTGELNAFLS  
LKNWTLQLKQSLFSEEEYTTGSEVTEDEVGDEEEVSKKQRKKEPKKFTRQPKKQVSS  
PCAQRKEKALEKSASRDVSPFVMSMQKNKWDATRSRFRNQDAQREDDQRRMTEITGHLIK  
MRLGDLDRVKSKEAKEFAGGIYSRLEAQIKASVPVSARQSSEKNTRSKSRFGQGRPA

>sp|P13645|K1C10\_HUMAN Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6  
MSVRYSSSKHYSSSRSGGGGGGGCGGGGVSSLRISSSKGSLLGGGFSSGGFSGGFSFSG  
SSGGGCGFGSSGGYGGLGGFGGGSFRGSYSSSFGGSYGGIFGGGSFGGGSFGGGSFGGG

GFGGGGFGGGFGGGFGDGLSGNEKVTMQNLNDRLASYLDKVRALEESNYELEGKIKE  
WYEHGNSHQGEPRDYSKYKYKTIDDLKNQILNLTTDNANILLQIDNARLAADDFRLKYEN  
EVALRQSV EADINGLRRVDELTLTKADLEMQIESLTEELAYLKKNHEEEMKDLRNVSTG  
DVNVEMNAAPGVDLTQLLNNMRSQYEQLAEQNRKDAEAWFNEKSKELTTEIDNNIEQISS  
YKSEITELRRNVQALEIELQSQLALKQSLEASLAETEGRYCVQLSQIQAQISALEEQLQQ  
IRAETECQNTHEYQQLLDIKIRLENEIQTYRSLLEGE GSSGGGGRGGGSFGGGYGGGSSGG  
GSSGGGHGGGHGGSSGGGYGGGSSGGSSGGGYGGGSSSGHGGSSSGGYGGGSSGGGGG  
GYGGGSSGGSSSGGYGGGSSSGGHKSSSSGSGVGESSSKGPRY

>sp|P08779|K1C16\_HUMAN Keratin, type I cytoskeletal 16 OS=Homo sapiens GN=KRT16 PE=1 SV=4

MTTCSRQFTSSSSMKGSCGIGGGIGGGSSRISSVLAGGSCRAPSTYGGGLSVSSRFSSGG  
ACGLGGGYGGGFSSSSSFGSGFGGGYGGGLGAGFGGGLGAGFGGFGAGGDGLLVGSEKVT  
MQNLNDRLASYLDKVRAL E EANADLEV KIRDWYQRQRPSEIKDYSPYFKTIEDLRNKIIA  
ATIENAQPILQIDNARLAADDFRTKYEH E LALRQTVEADVNGLRRVDELTLARTDLEMQ  
IEGLKEELAYLRKNHEE E MLALRGQTGGDVNVEMDAAPGVDLSRILNEMRDQYEQMAEKN  
RRDAETWFLSKTEELNKEVASNSELVQSSRSEVTELRRVLQGLEIELQSQLSMKASLENS  
LEETKGRYCMQLSQIQGLIGSV E EQLAQLRCMEQQSQEYQILLDVKTRLEQEIATYRRL  
LEGED A HLSSQASGQSYSSREVF TSSSSSSSRQTRPILKEQSSSSFSQGQSS

>sp|Q2M2I5|K1C24\_HUMAN Keratin, type I cytoskeletal 24 OS=Homo sapiens GN=KRT24 PE=1 SV=1

MSCSSRASSSRAGSSSARVSAGSSSFSSGSRCLGGSSAQGFRGGASSCSLSGGSSGAF  
GGSGGGGFGSCSVGGGFGGASGSGTGFGGSSFGGVSGFGRGSGFCGSSRFSSGATGGFY  
SYGGGMGGGVGDGLFSGGEKQTMQNLNDRLANYLDKVRAL E EANTDLENKIKEWYDKYG  
PGSGDGGSGRDYSKYYSIIEDLRNQIIAATVENAGIILHIDNARLAADDFRLKYENELCL  
RQSV EADINGLRKVLDDLTMTRS DLEMQIESFTEELAYLRKNHEE E MKNMQSSGGEVTV  
EMNAAPGTDLTCLLNDMRAQEELAEQNRREAEERFNKQSASLQAQISTDAGAATS AKNE  
ITELKRTLQALEIELQSQLAMKSSLEGTLADTEAGYVAQLSEIQTQISALEEEICQIWGE  
TKCQNAEYKQLLDIKTRLEVEIET YRRLLDGEGGSSFAEFGGRNSGSVNMGSRDLVSGD  
SRSGSCSGQGRDSSKTRVTKTIVEELVDGKVSSQVSSISEVKVK

>sp|Q7Z3Z0|K1C25\_HUMAN Keratin, type I cytoskeletal 25 OS=Homo sapiens GN=KRT25 PE=1 SV=1

MSLRLSSASRRSCRPTTGSRLRYGGGTSFGTGNSCGISGIGSGFSSAFGGSSSGGNTGG  
GNPCAGFTVNERGLSGNEKVTMQNLNDRLASYLDSVHALE E EANADLEQKIKGWYEFKFGP  
GSCRGLDHDYSRYFPIIDDLKNQIIASTTSNANAVLQIDNARLTADDFRLKYENELALHQ  
SVEADVNGLRRVDELTLCRTDLEIQYETLSEEMTYLKKNHKEEMQVLQCAAGGNVNVEM  
NAAPGVDLTVLLNNMRAEYEALAEQNRDAEAWFNEKSASLQQQISEDVGATTSARNELT  
EMKRTLQTL E IELQSL L ATKHSLECSLTETESNYCAQLAQIQAQIGALEEQLHQVRTETE  
GQKLEYEQLLDIKLHLEKEIET YCLLIGGDDGACKSGGYKSKDYSGNVGSQVKDPAKAI  
VVKKVLEEV DQRSKILTTRLHSLEEKSSQSN

>sp|Q6A163|K1C39\_HUMAN Keratin, type I cytoskeletal 39 OS=Homo sapiens GN=KRT39 PE=1 SV=2

MDTKGCTTTNSPSTPCQNC SRITNVSTISSNNGCHPGGLTVNNCQPAGHVLRIPWDQGCQ  
PTPRFCRKPIYLMNFNARFSLDDCSWYGE GINSNEKETMQILNERLANYLQKVRMLERE  
NAELESKIQEESNKELPVLCPDYL SYTTTIEELQQKILCTKAENSRLVSQIDNTKL TADD  
LRAKYEA EVSLRQLVESDANGLKQILNVLT LGADLEAQVQSLKEELLCLKNNHKEEINS  
LQCQLGERLDIEVTAAPSADLNQVLQEMRCQYEPIMETNRKDVEQWFNTQIEELNQVV T  
SSQQQQCCQKEIIELRRSVNTLEVELQAQHRMRDSQECILTETEARYTALLTQIQSLIDN  
LEAQLAEIRCALERQNQEYEILLDVKSRL E CEITTYRSLLESSDGKRPCYPRATKCEPSP

WTCKSGAIESTAPACTSSSPCSLKEHCSACGPLSRILVKICTITKEIKDGKVISSYEHV  
QPCFIIRPAKV

>sp|Q8IYS2|K2013\_HUMAN Uncharacterized protein KIAA2013 OS=Homo sapiens GN=KIAA2013 PE=1  
SV=1

MWLQQLKGLPGLSSSWARRLLCLLGLLLLLLWFGGSGARRAAGGLHLLPWSRGEPGA  
EPSACLEAATRAWRLRERGEVPLGPGVPALVANGFLALDVAANRLWVTPGEREPAVAP  
DFVPFVQLRPLSALAEAGEAVLLLREGLLRVRCLQLGSPGPGPVAAGPGPASVSGLAAG  
SGRDCVLLQEDFLAHRGRPHVYLQRIQLNNPTERVAALQTVGPTAGPAPKAFTSTLEKVG  
DHQFLLYSGRSPPTGLVHLVVVAAKKLVNRLQVAPKTQLDETVLVVHVHSGPINPQVL  
KSKAAKELKALQDLARKEMLELLDMPAAELLQDHQLLWAQLFSPGVEMKKITDHTPSGL  
TVNLTLYYMLSCSPAPLLSPSLSHRERDQMESTLNYEDHCFSGHATMHAENLWPGRLLSV  
QQILQLSDLWRLTLQKRGCKGLVKVGAPGILQGMVLSFGGLQFTENHLQFQADPDVLHNS  
YALHGIRYKNDHINLAVLADAEGKPYLHVSVESRGQPVKIYACKAGCLDEPVELTSAPTG  
HTFSVMVTQPITPLLYISTDLTHLQDLRHTLHLKAILAHDEHMAQQDPGLPFLFWFSVAS  
LITLFLFLFKLIYNEYCGPGAKPLFRSKEDPSV

>sp|Q9H714|K226L\_HUMAN Uncharacterized protein KIAA0226-like OS=Homo sapiens GN=KIAA0226L  
PE=1 SV=3

MVSQSTVRQDSPVEPWEGISDHSGIIDGSPRLNTDHPPCQLDIRLMRHKAVWINPQDVQ  
QQPQDLQSQVPAAGNSGTHFVTDAAASPGSPSPCLGDSLAETTLSEDTTDSVGSASPHGS  
SEKSSSFSLSSTEVMVRPGYSHRVSLTPSGILATSPYPETDSAFFEPSHLTSAADEGA  
VQVSRRTISSNSFSPEVFLPVDVEKENAHFYVADMIISAMEKMKCNILSQQQTESWSKE  
VSGLLGSDQPDSEMTFDNIKQESGSTSSYSGYEGCAVLQVSPVTETRTYHDVKEICKC  
DVDEFVILELGFNDITETCSCSCSSSKSVTYEPDFNSAELLAKELYRVFQKCWILSVVN  
SQLAGSLSAAGSIVVNEECVRKDFESSMNVVQEIKFKSRIRGTEDWAPPRFQIIFNIHPP  
LKRDLVVAQNFFCAGCGTPVEPKFVKRLRYCEYLKGYFCDCCHSYAESCIIPARILMMWD  
FKKYYVSNFSKQLDSIWHQPIFNLLSIGQSLYAKAKELDRVKEIQEQLFHIKKLLKTCR  
FANSALKEFEQVPGHLTDELHLFSLEDLVRIKKGLLAPLLKDILKASLAHVAGCELCQGK  
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AT

>sp|Q01546|K220\_HUMAN Keratin, type II cytoskeletal 2 oral OS=Homo sapiens GN=KRT76 PE=1  
SV=2

MNRQVCKKSFSGRSQGFSGRSAVVSGSSRMSCVARSGGAGGGACGFRSGAGSFGSRSLYN  
LGSNKISISVAAGSSRAGGFGGRSSCGFAGGYGGGFGGSYGGGFGGGRGVGSGFGGAG  
GFGGAGGFGGPGVFGGPGSGFGGPGGPGGPGGIQEVIVNQSLQLPLNVEIDPQIGQVK  
AQEREQIKTLNNKFASFIDKVRFLEQQNKVLETKWELLQQQTGSGPSSLEPCFESYISF  
LCKQLDSLLGERGNLEGELKSMQDLVEDFKKKYEDEINKRTAAENEFVGLKKDVDAAFMN  
KVELQAKVDSLTDVESFLRTL YEMELSQMASHASDTSVVLSMDNNRCLDLGSIIEVRAQ  
YEEIAQRSKSEAEALYQTKLGELQTTAGRHGDDL RNTKSEIMELNRM IQRLRAE IENVKK  
QANANLQTATAEAEQRGEMALKDANAKLQDLQTALQKAKDDLARLLRDYQELMNVKLALDV  
EIATYRKLLGECECRMSEGCQSAVCISVVSNTSTSGSSGSSRGVFGGVSGSGSGGYKGG  
SSSSSSSGYGVSGSGSGYGGVSSGSTGGRGSSGSYQSSSSGSRLGGAGSISVSHSGMGS  
SSGSIQTSGSGGYKSGGGGSTSIRFSQTTSSSQHSSTK

>sp|P12035|K2C3\_HUMAN Keratin, type II cytoskeletal 3 OS=Homo sapiens GN=KRT3 PE=1 SV=3  
MSRQASKTSGGGSQGFSGRSAVVSGSSRMSCVAHSGGAGGGAYGFRSGAGGFGSRSLYNL

GGNKSISISVAAGGSRAGGFGGGRSSCAFAGGYGGGFGSGYGGGFGGGFGGGRGMGGGFG  
GAGGFGGAGGFGGAGGFGGPGGFGGSGGFGGPGSLGSPGGFGPGGPGGIQEVTTINQSL  
QPLNVEIDPQIGQVKAQEREQIKTLNKFASFIDKVRFLQKQNVLETKWNLLQQQTSS  
ISGTNNLEPLFENHINYLRSYLDNILGERGRLDSELKNMEDLVEDFKKKYEDEINKRTAA  
ENEFVTLKKDVSAYMKNVELQAKVDALIDEIDFLRTLDAELSQQMSHISDTSVVLMSD  
NNRSLDLSIIAEVRAQYEDIAQRSKAEAEALYQTKLGELQTTAGRHGDDLNTKSEII  
LNRMIQRLRAEIEGVKKQANLQTAIAEAEQHGMALKDANAKLQELQAALQAKDDLAR  
LLRDYQELMNVKLALDVEIATYRKLLGEEYRMSGECPSAVSISVSSSTTSASAGGYG  
GYGGMGGGLGGGFSAGGSGSGFGRGGGGIGGGFGGSSGFSGGSGFGSISGARYGVS  
GGGFSSASNRGSIKFSQSSQSSQRYSR

>sp|P04259|K2C6B\_HUMAN Keratin, type II cytoskeletal 6B OS=Homo sapiens GN=KRT6B PE=1  
SV=5

MASTSTTIRSHSSRRGFSANSARLPVSRSGFSSISVSRSRGSGGLGGACGGAGFGSRS  
LYGLGSKRISIGGSCAISGGYSGRAGGSYFGGAGSGFGFGGAGIGFGLGGGAGLAG  
GFGGPGFPVCPGGIQEVTVNQSLTPLNLQIDPAIQRVRAEEREQIKTLNKFASFIDK  
VRFLQKQNVLDTKWTLLQEQTGKTVRQNLEPLFEQYINNLRQLDNIVGERGRLDSELR  
NMQDLVEDLNKYEDEINKRTAAENEFVTLKKDVDAAYMKNVELQAKADTLTDEINFLRA  
LYDAELSQQMTHISDTSVVLMSDNNRNLDSIIAEVKAQYEEIAQRSRAEAEQSWYQTKY  
EELQITAGRHGDDLNTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQRGEMAL  
KDAKNKLEGLDALQAKQDLARLLKEYQELMNVKLALDVEIATYRKLLGEECRLNGEG  
VGQVNISVVQSTVSSGYGGASGVGSLGLGGSSSYSGSLGVGGGFSSSSGRATGGGLS  
SVGGGSSTIKYTTTTSSSRKSYKH

>sp|Q8N1N4|K2C78\_HUMAN Keratin, type II cytoskeletal 78 OS=Homo sapiens GN=KRT78 PE=2  
SV=2

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RLGVRFGEWSGGPGLSLCPPGGIQEVTTINQNLTPKIEIDPQFQVVRTQETQEIRTLNN  
QFASFIDKVRFLQKQNVLETKWHLLQQQGLSGSQGLEPVFEACLDQLRKQLEQLQGER  
GALDAELKACRDQEEYKSKYEEEAHRRATLENDFVVLKKDVGVLFSKMELEGKLEALR  
EYLYFLKHLNEEELGQLQTQASDTSVVLMSDNNRYLDFSSITEVRARYEEIARSSKAEA  
EALYQTKYQELQVSAQLHGRMQETKVQISQLHQEIQLRQSQTENLKKQNASLQAAITDA  
EQRGELALKDAQAKVDELEAALMAKQNLARLLCEYQELTSTKLSLDVEIATYRRLLEGE  
ECRMSGECTSQVTISSVGSASVMSGVGGGLGSTCGLSGKGSPGSCCTSIVTGGSNIIL  
GSGKDPVLDSCSVSGSSAGSSCHTILKKTVESSLKTSITY

>sp|Q68EN5|K895L\_HUMAN Uncharacterized protein KIAA0895-like OS=Homo sapiens GN=KIAA0895L  
PE=2 SV=1

MVLDSGAQAYDQAPPSPPTSPPSLRHRLKPSDRDGPPLYPWSQSLALPLALAVPPALQPQ  
PEQQPFSQMLLGHRRHMRSESTYSVNSTGRRGRGTLGRPPPGRGRNPGGGTLRPAASLP  
HIAKTQRDAGHIASKSPCMLVALRPTNMDRERDKFFQSHYTYNPQFEYQEPMTAVLEKY  
CEASGQFIHQAVGIIAEVLEKFGTYEHFEAATGGQLLTKCQIWSIVRKYMKEGCAGEVV  
VQLSEDLLSQAVMMVENSRTPLAINLTGARQYWLEGMLRHEIGTHYLRGVNNARQPWHNA  
EGRLRYGLRPANPTEEGLASLHSLVFRKQPFLWRAALLYTIHRAARMSFRQLFQDLERY  
VQDADVRWEYCVRAKRGQTDTSPLPGCFSKDQVYLDGIVRIILRHRQTIDFPLLTSLGKVS  
YEDVDHLRPHGVLDNTRVPHFMQDLARYRQQLHIMATNRLDEAELGRLLPD

>sp|P31321|KAP1\_HUMAN cAMP-dependent protein kinase type I-beta regulatory subunit  
OS=Homo sapiens GN=PRKAR1B PE=1 SV=4

MASPPACPSEEDSLKGCELYQLHGIQQVLKDCIVHLCISKPERPMKFLREHFEEKLEKE  
ENRQILARQKSNSQSDSHDEEVSTPPNPVVKARRRRGGVSAEVYTEEDAVSYVRKVIPK  
DYKTM TALAKAISK NVLFAHLD DNERSDIFDAMFPVTHIAGETVIQQGNEGDNFYVVDQG  
EVDVYVNGEWVTNISEGGSFGELALIYGTPRAATVKAKTDLKLWGIDRDSYRRILMGSTL  
RKRKMYEEFLSKVSILESLEKWERLTVADALEPVQFEDGEKIVVQGEPGDDFYIITEGTA  
SVLQRRSPNEEYVEVGRLGPSDYFGEIALLLNRPRAATTVARGPLKCVKLD RPRFERVLG  
PCSEILKRNIQRYNSFISLTV

>sp|P13861|KAP2\_HUMAN cAMP-dependent protein kinase type II-alpha regulatory subunit  
OS=Homo sapiens GN=PRKAR2A PE=1 SV=2

MSHIQIPPLTELLQGYTVEVLRQQPPDLVEFAVEYFTRLREARAPASVLPAAATPRQSLG  
HPPPEPGPDRVADAKG DSESEDEDELPVPSRFNRRVSVCAETYNPDEEEEDTDPRVIH  
PKTDEQRCRLQEACKDILLFKNL DQEQLSQVLDAMFERIVKADEHVIDQGDDGDNFYVIE  
RGTYDILVTKDNQTRSVGQYDNRSFGELALMYNTPRAATIVATSEGS LWGLDRVTFRR I  
IVKNNAKKRKMFSFIESVPLLSLEVSERMKIVDVIGEKIYK DGERIITQGEKADSFYI  
IESGEVSILIRSRKSNKDGGNQEVEIARCHKGQYFGELALVTNKPRAASAYAVGDVKCL  
VMDVQAFERLLGPCMDIMKRNISHYEEQLVKMFGSSVDLGNLGQ

>sp|P22612|KAPCG\_HUMAN cAMP-dependent protein kinase catalytic subunit gamma OS=Homo  
sapiens GN=PRKACG PE=1 SV=3

MGNAPAKKDTEQEEVSNEFLAKARGDFLYRWGNPAQNTASSDQFERLRTLGMGSFGRVML  
VRHQETGGHYAMKILNKQKVVKMKQVEHILNEKRILQAIDFPFLVKLQFSFKDNSYLYLV  
MEYVPGGEMFSRLQVRGRFSEPHACFYAAQVVLAVQYLHSLDLIHRDLKPENLLIDQQGY  
LQVTDGFGAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAVGFPFPFY  
ADQPIQIYEKIVSGRVRFPSKLSSDLKHLLRSLQVDLTKRFGNLRNGVGD IKNHKWFAT  
TSWIAIYEKKVEAPFIPKYTGPGDASNFDDEYEEELRISINEKCAKEFSEF

>sp|Q8N6L0|KASH5\_HUMAN Protein KASH5 OS=Homo sapiens GN=CCDC155 PE=1 SV=2

MDLPEGPVGGPTAEMYLRERPEEARLGMPVSLEE QILNSTFEACDPQRTGTVA VAQVLAY  
LEAVTGQGPQDARLQTLANSLDPNGEGPKATVDLDTFLVVRDWIAACQLHG GLELEEET  
AFQGALTSRQLPSGCPEAEEPANLESFGGEDPRPELQATADLLSLEDLELSNRRLVGEN  
AKLQRSMETAEEGSARLGEEILALRKQLHSTQQALQFAKAMDEELEDLKT LARSLEE QNR  
SLLAQARQAEKEQQHLVAEMETLQEENGKLLAERDGVKKRSQELAMEKDTLKRQLFECEH  
LICQRDTILSERTRDVESLAQTLEEYRVTTQELRLEISRLEEQLSQT YEGPDELPEGAQL  
RRVGWTELLPPSLGLEIEAIRKQKEVATADLSNPLCGVWQWEEVIHETSEET EFPSEAPA  
GGQRNFGGEPAHPEEGRKEPSMWLTRREEEEDAESQVTADLPVPLGAPRPGDIPENPPER  
PARRELQQALVPVMKKLVPVRRRAWGQLCLPPQRLRVTRHPLIPAPVLGLLLLLLLSVLL  
LGPSPPPTWPHLQLCYLQPPPV

>sp|Q92830|KAT2A\_HUMAN Histone acetyltransferase KAT2A OS=Homo sapiens GN=KAT2A PE=1 SV=3

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GGPGVSGGAGSGGDPARPGLSQQQRASQRKAQVRGLPRAKKLEKLGVFSACKANETCKC  
NGWKNPKPPTAPRMDLQQPAANLSELCRSCEHPLADHVSHLENVSEDEINRL LGMVVDVE  
NLFMSVHKEEDTDTKQVYFYLFKLLRKCILQMTRPVVEGSLGSPPEKPNIEQGV LNFVQ  
YKFSHLAPRERQTMFELSKMFLCLNYWKLETPAQFRQRSQAEDVATYKVNYTRWLCYCH  
VPQSCDSLPRYETTHVFRSLLRSIFTVTRRQLLEKFRVEKDKLVPEKRTLILTHFPKFL



SMLEEEIYGANSPIWESGFTMPPEGLVPRPASVSAAVPSTPIFSPSMGGGSNSSL  
LDSAGAEMPGEKRTL PENLTLEDAKRLRMGDIPMELVNEVMLTITDPAAMLGPETSL  
SANAARDETARLEERRGIEFHVIGNSLTPKANRRVLLWLVLQNVFSHQLPRMPKEYIA  
RLVFDPKHKTALIKDGRVIGGICFRMFPTQGFTIEIVFCAVTSNEQVKGYGTHLMNHLKE  
YHIKHNLIFLYADEYAIIGYFKKQGFSDIKVPKSRYLGYIKDYEGATLMECELNPRIP  
YTELSHIKKKQEI IKKLIERKQAQIRKVYPGLSCFKEGVRQIPVESVPGIRETGWKPLG  
KEKGKELKDPDQLYTTLNLLAQIKSHPSAWPFMEPVKKSEAPDYEVIRFPIDLKTMTE  
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>sp|Q8WYB5|KAT6B\_HUMAN Histone acetyltransferase KAT6B OS=Homo sapiens GN=KAT6B PE=1 SV=3

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LKVTNKGSLASYKDPNPGRFSSVKPGTFPKSAKSGRGSCNDLRNVDWNKLLRRAIEGLEE  
PNGSSLKNIKEYLRSQSDLTSTNNPAFQQRLRLGAKRAVNNGRLLKDGPPQYRVNYGSLD  
GKGAPQYPSAFPSSLPPVSLLPHEKDQPRADPIICSFCLGTKEKNREKKPEELLSCADC  
GSSGHPSCCLKFCPELTNNVKKALRWQCIECKTCSACRVQGRNADNMLFCDSCDRGFHMECC  
DPPLSRMPKGMWICVCRPKKKGRKLLHEKAAQIKRRYAKPIGRPKNKLKQRLSVTSDE  
GSMNAFTGRGSPGRGQKTKVCTTPSSGHAASGKDSSSRLAVTDPTRPGATTKITTSTYI  
SASTLVNKKTKGLIDGLTKFFTPSPDGRSRGEIIDFSKHYRPRKKVSQKQSCSTSHVLA  
TGTTQKLKPPSSLPPTPISGQSPSSQKSSTATSSPSPQSSSSQCSVPSLSSLTNSQL  
KALFDGLSHIYTTQGGSRKKGHPSPYAPPKRMRRKTELSSTAKSKAHFFGKRDIRSRFISH  
SSSSSWGMRGSIKFAIAHFKRTTFLKKHRMLGRLKYKVPQMGTSPGKGSGLTDGRIKP  
DQDDDETEIKINIKQESADVNVIGNKDVVTEEDLDVFKQAQELSWEKIECESGVEDCGRYP  
SVIEFGKYEIQTWYSSPYQYARLPKLYLCEFLKYMKSKNILLRHSKKCGWFHPPANE  
IYRRKDLVSFEVDGNMSKIYCQNLCLLAKLFLDHKTLYYDVEPFLFYVLTKNDEKGCHLV  
GYFSKEKLCQQKYNVSCIMIMPQHQRQGFRFLIDFSYLLSRREGQAGSPEKPLSDLGRL  
SYLAYWKSIVILEYLHHHERHISIKAISRATGMCPHDIATTLQHLHMIDKRDGRFVIRR  
EKLILSHMEKLKTCRANELDPSLRWTPILISNAVSEEEERAEKEAERLMEQASCWEK  
EEQEILSTRANSRQSPAKVQSKNKYLHSPESRPVTGERGQLELSKESEEEEEEEEDEEE  
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NSSVTTETISETTEVLNEPFDNDEERPMPQLEPTCEIEVEEDGRKPVLRKAFQHQPQKK  
RQTEEEEGKDNHCFKNADPCRNNDSSNLKEGSKDNPEPLKCKQVWPKGTKRGLSKWR  
QNKERTGFKNLNLYTPPETPMEPEQVTVEEQKETSEGKTSPIRIEEVKETGEALLP  
QEENRREETCAPVSPNTSPGEKPEDDLIKPEEEEEEEEEEEEEEEEEEGGEGGVEK  
DPDGAQSKEKEPEISTEKEDSARLDDHEEEEEDEEPSHNEDHDADDEDDSHMESAEVE  
KEELPRESFKEVLENQETFLDLNVQPCHSNPEVLMDCGVDLTASCNSEPKELAGDPEAVP  
ESDEEPPPGQAQKQDKNSKEVDTEFKEGNPATMEIDSETVQAVQSLTQESSEQDDTFQ  
DCAETQEACRSLQNYTRADQSPQIATTLDDCQQSDHSSPVSSVHSHPGQSVRSVNSPSVP  
ALENSYAQISPDQSAISVPSLQNMETSPMMDVPSVSDHSQQVVD SGFSDLGSIESTTENY  
ENPSSYDSTMGGICGNGSSQNSCSYSLTSSSLTQSSCAVTQMSNISGSCSMLQQTISI  
SSPPTCSVKSPQGCVERPPSSSQLAQCSMAANFTPPMQLAEIPETSNANIGLYERMGQ  
SDFGAGHYPPSATFSLAKLQQLTNTLIDHSLPYSHSAAVTSYANSASLSTPLSNTGLVQ  
LSQSPHSVPGGPQAQATMTPPPNLTTPPMNLPPPLLQRNMAASNIGISHSQRQTQIASK  
GHISMRTKSASLSPAAATHQSQIYGRSQTVAMQGPARTLTMQRGMNMSVNLMPAPAYNVN  
SVNMNMNTLNAMNGYSMSQPMNMSGYHSNHGYMNQTPQYPMQMGMGTQPYAQQPMQT  
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>sp|Q9Y5Q6|INSL5\_HUMAN Insulin-like peptide INSL5 OS=Homo sapiens GN=INSL5 PE=1 SV=2

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TGNSFQLPHKREFSEENPAQNLPKVDASGEDRLWGGQMPTEELWKS KHSVMSRQDLQTL  
CCTDGCSTDLALC

>sp|Q9Y283|INVS\_HUMAN Inversin OS=Homo sapiens GN=INVS PE=1 SV=2

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TTRHRSPKCLALLLKFMAPGEVDTQDKNKQTALHWSAYYNNPEHVKLLIKHDSNIGIPDV  
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TSYESCNITSYDNLFRTPLHWAALLGHAQIVHLLLERNKSGTIPSDSQGATPLHYAAQSN  
FAETVKVFLKHPSVKDDSDLEGRTSFMWAAGKGSDDVLR TMLSLKSDIDINMADKYGGTA  
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QDGHSLHWAALGGNADVCQIL IENKINPNVQDYAGRTPLQCAAYGGYINCMAVLMENNA  
DPNIQDKEGRTALHWSNNGYLDAILLLDFAAFPNQMENNEERYTPLDYALLGERHEVI  
QFMLEHGALSIAAIQDIAAFKIQAVYKGYKVRKAFRDRKNLLMKHEQLRKDAAKKREEE  
NKRKEAEQQKGRSPDSCR PQALPCLPSTQDVPSRQSRAPSKQPPAGNVAQGPEPRDSRG  
SPGGS LGGALQKEQHVSDDLQGTNSRRPNETAREHSGKQSACVHFRPNEGSDGSRHPGVP  
SVEKSRGETAGDERCAKGKGFVKQPSCIRVAGPDEKGEDSRRAASLP PHDSHWKPSRRH  
DTEPKAKCAPQKRRTQELRGGR CSPAGSSRPGSARGEAVHAGQNPPHRTPRNKVTQAKL  
TGGLYSHLPQSTEELRSGARRLETSTLSEDFQVSKETDPAPGPLSGQSVNIDLLPVELRL  
QIIQRERRRKELFRKKNAAAVIQRAWRSYQLRKHLSHLRHMKQLGAGDVRWRQESTAL  
LLQVWRKELELKFQTTAVSKAPKSPSKGTSGTKSTKHSVLKQIYGCSHEGKIHHPTRSV  
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>sp|P23677|IP3KA\_HUMAN Inositol-trisphosphate 3-kinase A OS=Homo sapiens GN=ITPKA PE=1  
SV=1

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STSSVSSTGSSSLEDSEDDLSDSESRSGNVQLEAGEDVGQKNHWQKIRTMVNLPVIS  
PFKKRYAWVQLAGHTGSFKAAGTSGLILKRCSEPERYCLARLMADALRGCVPAFHGVVER  
DGESYLQLQDLLDGF DGPCVL DCKMGVRTYLEEELTKARERPKLRKDMYKMLAVDPEAP  
TEEEHAQRAVTKPRYMQWREGISSSTTLGFRIEIGKADGSCSTDFKTTRSREQVLRVFE  
EFVQGDEEVLRRYLNR LQQIRD TLEVSEFFRRHEVIGSSLLFVHDHCHRAGVWLIDFGKT  
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>sp|O15397|IPO8\_HUMAN Importin-8 OS=Homo sapiens GN=IPO8 PE=1 SV=2

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HDFPGHWPGVVDKIDYYLQSQSSASWLSLLCLYQLVKTYEYKKAEREPLIIAMQIFLP  
RIQQQIVQLLPDSSYYSVLLQKQILKIFYALVQYALPLQLVNNQTMTTWMEIFRTIIDRT  
VPPETLHIDEDDRPELVWVKCKWALHIVARL FERYGSPGNVTKEYFEFSEFFLKYAVG  
IQVLLKILDQYRQKEYVAPRVLQQA FNYNLQGVVHSITWKQMKPHIQNIS EDVIFSVMC  
YKDEDEELWQEDPYEYIRMKFDIFEDYASPTTAAQTLLYTA AKKRKEVLPKMMAFCYQIL  
TDPNFDPRKKD GALH VIGSLAEILLKKS LFKDQME LFLQNHVFPLLSNLGYLRARSCWV  
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```
>sp|Q86U28|ISCA2_HUMAN Iron-sulfur cluster assembly 2 homolog, mitochondrial OS=Homo
sapiens GN=ISCA2 PE=1 SV=2
```

```
>sp|P53990|IST1_HUMAN IST1 homolog OS=Homo sapiens GN=IST1 PE=1 SV=1
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```
>sp|P26006|ITA3_HUMAN Integrin alpha-3 OS=Homo sapiens GN=ITGA3 PE=1 SV=5
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>sp|P08648|ITA5 HUMAN Integrin alpha-5 OS=Homo sapiens GN=ITGA5 PE=1 SV=2
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DNFTRILEYAPCRSDFSWAAGQGYCQGGFSAEFTKTGRVVLGGPGSYFWQQILSATQEQ  
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GEQNHVYLGDKNALNLTFAHQNVGEGGAYEAELRVTAPPEAEYSGLVHRPGNFSSLS  
FAVNQSRLLVCDLGNPMKAGASLWGLRFTVPHLRDTKKTIQFDFQILSKNLNNSQSDVV  
SFRLSVEAAQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPAVHHVYELINQGSSI  
SQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQQKREAPSRS  
SASSGPQILKCEAECFRLRCELGPLHQQESQSLQLHFRVWAKTFLQREHQPFSLQCEAV  
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>sp|P23229|ITA6\_HUMAN Integrin alpha-6 OS=Homo sapiens GN=ITGA6 PE=1 SV=5

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SQGPGGKVVTCAHRYEKRQHVNTKQESRDIFGRCYVLSQNLRIEDDMDGGDWSFCDGRLR  
GHEKFGSCQQGVAATFTKDFHYIVFGAPGTYNWKGIVRVEQKNNTFFDMNIFEDGPYEVG  
GETEHDES LVPVPANSYLGLLFTSVSYTDPDQFVYKTRPPREQPDTFDPVMMNSYLGF  
LDSGKGIVSKDEITFVSGAPRANHSGAVVLLKRDMSAHLLEHIFDGEGLASSFGYDVA  
VVDLNKDGWQDIVIGAPQYFDRDGEVGGAVVYMNQQGRWNNVKPIRLNGTKDSMFGIAV  
KNIGDINQDGYPDIAVGAPYDDLGVFIYHGSANGINTKPTQVLKGISPYFGYSIAGNMD  
LDRNSYPDVAVGSLSDSVTIFRSRPVINIQTITVTPNRIDL RQKTACGAPSGICLQVKS  
CFEYTANPAGYNPSISIVGTLEAEKERRKSGLSSRVQFRNQGSEPKYTQELTLKRQKQKV  
CMEETLWLQDNIRDKLRPIPIITASVEIQEPSSRRRVNSLPEVLPILNSDEPKTAHIDVHF  
LKEGCGDDNVCNSNLKLEYKFCTREGNQDKFSYLP IQKGVPPELVLDQKDIALEITVNS  
PSNPRNPTKDGDDAHEAKLIATFPDTLTYSAYRELRAFPEKQLSCVANQNGSQADCELGN  
PFRNSNVTFYLVLTSTEVTFDTPDLINLKLETTSNQDNLAPITAKAKVVIELLSVSG  
VAKPSQVYFGGTVVGEQAMKSEDEVGSLIEYEFRVINLGKPLTNLTATLNIQWPKEISN  
GKWL LYLKVESKLEKVTCEPQKEINSLNLTESHNSRKKREITEKQIDDNRKFSLFAER  
KYQTLNCSVNVCVNIRCPLRGLDSKASLIILRSRLWNSTFLEEYSKLNLYLDILMRAFIDV  
TAAENIRLPNAGTQVRVTVPFSKTVAQYSGVPWWIILVAILAGILMLALLVFIWKCGF  
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>sp|P53708|ITA8\_HUMAN Integrin alpha-8 OS=Homo sapiens GN=ITGA8 PE=1 SV=3

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VNGTKEPIEFKSNQWFGATVKAHKGVVACAPLYHWRTLKPTPEKDPVGTCTYVAIQNFSA  
YAEFSPCRNSNADPEGQGYCQAGFSLDFYKNGDLIVGGPGSFYWGQVITASVADI IANY  
SFKDILRKLAGEKQTEVAPASYDDSYLGYSVAAGEFTGDSQQELVAGIPRGAQNFGYVSI  
INSTDMTFIQNFTGEQMASYFGYTVVVSVDVNSDGLDDVLVGAPLFMEREFESNPREGVQI  
YLYLQVSSLLFRDPQILTGTFGRFGSAMAHLGDLNQDGYNDIAIGVPFAGKDQRGKVL  
IYNGNKDGLNTKPSQVLQGVWASHAVPSGFGFTLRGSDSIDKNDYPDLIVGAFGTGKVAV

YRARPVTVDAQLLHPMI INLENKTCQVPDSMTSAACFSLRVCASVTGQSIANTIVLMA  
EVQLDSLKQKGAIKRTLFLDNHQAHRVFPLVIKRQKSHQCQDFIVYLRDETEFRDKLSPI  
NISLNYSLDESTFKEGLEVKPILNYYRENIVSEQAHLVDCGEDNLCVPDLKLSARPDKH  
QVIIGDENHMLI INARNEGEGAYEAELFVMIPEEADYVGIERNKGRPLSCEYKMENV  
TRMVCDLGNPMVSGTNYSLGLRFAVPRLEKTNMSINFDLQIRSSNKDNPDSNFVSLQIN  
ITAVAQVEIRGVSHPPQIVLPIHNWEPEEEPHKEEEVGPLVEHIYELHNIGPSTISDTIL  
EVGWPF SARDEFLLYIFHIQTLGPLQCQPNPNINPQDIKPAASPEDPELSAFLRNSTIP  
HLVRKRDVHVVEFHRQSPAKILNCTNIECLQISCAVGRLEGGESAVLKVRSRLWAHTFLQ  
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LGLLVLAAILTLALWKCFFDRARPPQEDMTDREQLTNDKTPEA

>sp|P20701|ITAL\_HUMAN Integrin alpha-L OS=Homo sapiens GN=ITGAL PE=1 SV=3

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QNTYLSGLCYLFRQNLQGPMLQGRPGFQECIKGNVDLVFLFDGSMQLPDEFQKILDFMK  
DVMKKLSNTSYQFAAVQFSTSYKTEFDSDYVVRKDPDALLKHVKHMLLLTNTFGAINYV  
ATEVFREELGARPDATKVLIIITDGEATDSGNIDAAKDIIRYIIIGIKHFQTKESQETLH  
KFASKPASEFVKILDTEFKLKLDTFELQKKIYVIEGTSKQDLTSFNMELSSSGISADLSR  
GHAVVGAVGAKDWAGGFLDLKADLQDDTFIGNEPLTPEVRAGYLGTVTWLPSRQKTSLL  
ASGAPRYQHMGRVLLFQEPQGGHWSQVQTIHGTQIGSYFGGELCGVDVDQDGETELLLI  
GAPLFYGEQRGGRVFIYQRRQLGFEEVSELQGDPGYPLGRFGEAITALTDINGDGLVDVA  
VGAPLEEQGAVYIFNGRHGGLSPQPSQRIEGTQVLSGIQWFGRSIGHVKDLEGDGLADVA  
VGAESQMIVLSSRPVDMVTLMSFSPAEIPVHEVECSYSTSNKMKEGVNITICFQIKSLI  
PQFQGRLVANLTYTLQLDGHRTRRRGLFPGGRHELRRNIAVTTSMSCDTDFSFHFPVCVQD  
LISPINVS LNFSLWEEEGTPRDQRAQGKDIPPILRPSLHSETWEIPFEKNCGEDKKCEAN  
LRVSFSPARSRALRLTAFASLSVELSLSNLEEDAYWVQLDLHFPPGLSFRKVEMLKPHSQ  
IPVSCEELPEESRLSRALSCNVSSPIFKAGHSVALQMMFNTLVNSSWGDSVELHANVTC  
NNEDSDLEDNSATTIIPILYPINILIQDQEDSTLYVSFTPKGPKIHQVKHMYQVRIQPS  
IHDHNIPTLEAVVGVPQPPSEGPITHQWSVQMEPPVPCHYEDLERLPDAAEPCLPGALFR  
CPVVFQRQEILVQVIGTLELVEIEASSMFSLCSSLSISFNSSKHFHLYGSNASLAQVVMK  
VDVVEKQMLYLYVLSGIGLLLLLLLIFIVLYKVGFFKRNLEKMEAGRGVPNGIPAEDS  
EQLASGQEAGDPGCLKPLHEKDSSESGGKD

>sp|Q8IYV9|IZUM1\_HUMAN Izumo sperm-egg fusion protein 1 OS=Homo sapiens GN=IZUM01 PE=1  
SV=2

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VKDFQELSLNEDAYMGVVDEATLQKGSWSLLKDLKRITDSDVKGDLFVKELFWMLHLQKE  
TFATYVARFQKEAYCPNKCGVMLQTLIWCKNCKKEVHACRKS YDCGERNVEVPQMEDMIL  
DCELNWHQASEGLTDYSFYRVWGNNTETLVSKGKEATLTKPMVGPEDAGSYRCELGSVNS  
SPATIIINHVTVLPMKIEEKPSPNIVTPGEATTESSISLQPLQPEKMLASRLGLLICG  
SLALITGLTFAIFRRRKVIDFIKSSLFGLGSGAAEQTVPEKATDSRQQ

>sp|Q1ZYL8|IZUM4\_HUMAN Izumo sperm-egg fusion protein 4 OS=Homo sapiens GN=IZUM04 PE=2  
SV=2

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IIESRIDCQHRCGIFQYETISCNCTDSHVACFGYNCESSAQWKS AVQGLLNYINNWHKQ

DTSMRPRSSAFSWPGTHRATPAFLVSPALRCLEPPHLANLTLEDAAECLKQH

>sp|Q6IE81|JADE1\_HUMAN Protein Jade-1 OS=Homo sapiens GN=JADE1 PE=1 SV=1

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SEPPELGYVDIRTLADSVCRYDLNDMDAAWLELTNEEFKEMGMPELDEYTMERVLEEFEQ  
RCYDNMNHAIETEEGLGIEYDEDEVVCDVCQSPDGEDGNEMVFCDKCNICVHQACYGILKV  
PEGSWLCRTCALGVQPKCLLCPPKGGAMKPTRSGTKWVHVSCALWIPEVSI GSPEKMEPI  
TKVSHIPSSRWALVCSLCNEKFGASIQCSVKNCRTAFHVTCADFDRGLEMKTILAENDEVK  
FKSYCPKHSSHRKPEESLGKGAQENGAEPCSPRNLEPFASLEQNREEAHRVSVRKQKL  
QQLEDEFYTFVNLLDVARALRLPEEVVDFLYQYWKLKRKVNFNKPLITPKKDEEDNLAKR  
EQDVLFRRLQLFTHLRQDLERVNLTVMVTRREKIKRSVCKVQEQIFNLYTKLLEQERVS  
GVPSSCSSSSLENMLLFNSPSVGPDPAPKIEDLKWHSAFFRKQMGTSLVHSLKKPHKRDPL  
QNSPGSEGKTLLKQPDLCGRREGMVVPESFLGLEKTFAEARLISAQQKNGVVMPPDHGKRR  
DNRFHCDLIKGDLDKSFQKSHKPLRSTDVSQRHLDNTRAATSPGVGQSAPGTRKEIVPK  
CNGSLIKVNYNQTAVKVPTTPASPVKNWGGFRIPKKGERQQQGEAHDGACHQHS DYPYLG  
LGRVPAKERAKSKLSDNENDGYVPDVEMSDSESEASEKKCIHTSSTISRRTDIIRRSIL  
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>sp|Q9Y6K8|KAD5\_HUMAN Adenylate kinase isoenzyme 5 OS=Homo sapiens GN=AK5 PE=1 SV=2

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EYEVFDPTRPRPKIILVIGPGSGKGTQSLKIAERYGFQYISVGELLRKKIHSTSSNRKW  
SLIAKIIITGELAPQETTITEIKQKLMQIPDEEGIVIDGFPRDVAQALS FEDICTPDLV  
VFLACANQRLKERLLKRAEQQGRPDNDVKATQRRLMNFKQNAAPLVKYFQEKGLIMTFDA  
DRDEDEVFYDISMAVDNKLFPNKEAAAGSSDLDP SMILDTGEIIDTGS DYEDQGDDQLNV  
FGEDTMGGFMEDLRKCKIIFIIGPGSGKGTQCEKLVEKYGFTHLSTGELLREELASESE  
RSKLIRDIMERGDLVP SGIVLELLKEAMVASLG DTRGFLIDGYPREVKQGEEFGRRIGDP  
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>sp|Q96MA6|KAD8\_HUMAN Adenylate kinase 8 OS=Homo sapiens GN=AK8 PE=1 SV=1

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LIQERLAEEDCIKQGWLGDGIPETREQALRIQTLGITPRHVIVLSAPDVLIERNLGKRI  
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SADQPCVDVFYQALTYVQSNHRTNAPFTPRVLLGPGVSGKSLQAALLAQKYRLVNCCG  
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>sp|P06213|INSR\_HUMAN Insulin receptor OS=Homo sapiens GN=INSR PE=1 SV=4

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TVINGSLIINIRGGNNLAAELEANGLIEEISGYLKIRRSYALVLSFFRKLRLIRGETL  
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SRKHFALERGCRLRGLSPGNYSVRIRATSLAGNGSWTEPTYFYVTDYLDVPSNIAKIIIG  
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AEIADGMAYLNAKKFVHRDLAARNCMVAHDFTVKIGDFGMTRDIYETDYRKGKGLLPV  
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CPERTDLMRMCWQFNPKMRPTFLEIVNLLKDDLHPSFPEVSFFHSEENKAPESSELEME  
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>sp|Q96HW7|INT4\_HUMAN Integrator complex subunit 4 OS=Homo sapiens GN=INTS4 PE=1 SV=2

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EKSVTKDAEGLAARDVQKIIGDYFSDQDPRVRTAAIKAMLQLHERGLKLHQTIYNQACKL  
LSDDYEQVRSAAVQLIWWVSQLYPESIVPIPSNNEIRLVDDAFGKICHMVSDGSWVVRV  
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EEVDTGAVNLIESGACGAFVHGLEDEMYEVRIAAVEALCMLAQSSPSFAEKCLDFLVDMF  
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LDLMPRLMTSKPAEVVKILQTMLRQSAFLHLPLPEQIHKASATIIEPAGESDNPLRFTSG  
LVVALDV DATLEHVQDPQNTVKVQVLYPDGQAQMIHPKPADFRNPGGRHRLITQVYLSH  
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ARR

>sp|Q9NVH2|INT7\_HUMAN Integrator complex subunit 7 OS=Homo sapiens GN=INTS7 PE=1 SV=1

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ITLRLGSLASIIIPERKNAHHSIRQSLSDHNVVEAAVFAAANFSAQSKDFAVGICNKI  
SEMIQGLATPVDLKLKLIPIILQMHHDAILASSARQLLQQLVTSYPSTKMVIVSLHTFTL  
LAASSLVDTPKQIQLLLQYLKNDPRKAVKRLAIQDLKLLANKTPHTWSRENIQALCECAL  
QTPYDSLKLGMLSVLSTLSGTIIAIIKHYSIVPGNVSSSPRSSDLVKLAQECCYHNNRGIA  
AHGVRVLTNITVSCQEKDLLALEQDAVFGLESLLVLCSQDDSPGAQATLKIALNCMVKLA

KGRPHLSQSVVETLLTQLHSAQDAARILMCHCLAAIAMQLPVLGDGMLGDLMELYKVIGR  
SATDKQQELLVSLATVIFVASQKALSVEKAVIKQQLSVSNGWTVYRIARQASRMGNHD  
MAKELYQSLLTQVASEHFYFWLNSLKEFSHAEQCLTGLQEENYSSALS CIAESLKFYHKG  
IASLTAASTPLNPLSFQCEFVKLRIDLQAFSQLICTNSLKTSPPPAIATTIAMTLGND  
LQRCGRISNQMKQSMEEFRSLASRYGDLYQASFDADSATLRNVELQQQSCLLISHAIEAL  
ILDPEASASFQEYGSTGTAHADSEYERRMMSVYNHVLEEVESLNRKYTPVSYMHTACLCNA  
I IALLKVPLSFQRYFFQKLQSTS IKLALSPSPRNP AEPIAVQNNQQLALKVEGVVHGSK  
PGLFRKIQSVCLNVSSTLQSKSGQDYKIPIDNMTNEMEQRVEPHNDYFSTQFLLNFAILG  
THNITVESSVKDANGIVWKTGPRTTIFVKSLEDYPYSQQIRLQQQQAQQPLQQQQQRNAYT  
RF

>sp|P49895|IOD1\_HUMAN Type I iodothyronine deiodinase OS=Homo sapiens GN=DI01 PE=2 SV=3  
MGLPQPGLWLKRLWVLEVAHVHVVGKVLLILFPDRVKNILAMGEKTMTRNPHFSDHN  
WIPTFFSTQYFWFVLKVRWQRLDTELGG LAPNCPVVR LSGQRCNIWEFMQGNRPLVLN  
FGSCTUPSFMFKFDQFKRLIEDFSSIADFLVIYIEEAHASDGWAFKNNMDIRNHQNLQDR  
LQAAHLLLARSPQCPVVVDTMQNQSSQLYAALPERLYIIQEGRILYKGKSGPWNYNP EEV  
RAVLEKLHS

>sp|Q9UPP2|IQEC3\_HUMAN IQ motif and SEC7 domain-containing protein 3 OS=Homo sapiens  
GN=IQSEC3 PE=2 SV=3

MESLLENPVRAVLYLKELTAIVQNQQSLIHTQRE IDELERRLDELSAENRSLWEHQQLL  
QAQPPPGLVPPSSAPLPAAPATAAAAAAQEPLQDQGQSAAAPHPAPDRPQRHHGQL  
LEQPQRGPGSRAHTPQSPHKHLGTQGA VTDKEKERPPSCCAAAGALLQHKSPSALGKGV L  
SRRPENETVLHQFCCPAADACSDLASQSDG SCTQAGGGMEDSVVAAA VAAGRPSAHAPK  
AQAQELQEEEEERPGAGAASPRAGPQH KASPGRQQPALATALCPHAPAASDYELSLDLKNK  
QIEMLEHKYGGHLVSRRAACTIQTAFRQYQLSKNF EKIRNSLLESRLPRRISLRKVRSP T  
AESLAAEKALMEGYGLVGLPLVRSPSLPPTFAGTLTELEDSFTEQVQSLAKSIDDALSTW  
SLKTMCSLRESGAYQLHQALQAAAGPPGLEAEGRAPESAGPGGDAAETPGLPPAHSGT  
LMMAFRDVTVQIANQNISVSSSTALSVANCLGAQTVQAPAEPAAGKAEQGETSGREAPEA  
PAVGREDASAEDSCAEAAAASGAADGATAPKTEEEEEEEETA EVGRGAEEAGDLEQLSSS  
STSTKSAKSGSEASASASKDALQAMILSLPRYHCENPASCKSPTLSTDTLRKRLYRIGLN  
LFNINPDKGIQFLISRGFIPDTPIGVAHFLLQRKGLSRQMIGFLGNSKKQFN RDVLDCV  
VDEMD FSSMELDEALRKFAQH IRVQGEAQKVERLIEAFSQR YCMCNPEVVQQFHNPDTIF  
ILAFAIILLNTDMYSPNIKPD RKMMLEDFIRNLRGVDDGADIPREL VVG IYERIQKELK  
SNEDHVTYVTKVEKSI VGMKTVLSVPHRRLVCCSRLFEVTDV NKLQKQAAHQREVFLFND  
LLVILKLCPPKKSSSTYTFCKSVGLLGMQFQLFENEY YSHGITLV TPLSGSEKKQVLHFC  
ALGSD EMQKFVEDLKESIAEVTELEQIRIEWELEKQGGTKT LSFKPCGAQGDPQSKQGSP  
TAKREAAALRERPAESTVEVSIHNRLQTSQHNSGLGAERGAPVPPPD LQPSPPRQQTPLP  
PPPPTPPGTLVQCQIVKVI VLDKPCLARMEPLLSQALSCYTSSSSDSCGSTPLGGPGSP  
VKVTHQPPLPPPPPPYNHPHQFCPPGSL LHGHRYSSGSRSLV

>sp|Q9NZN1|IRPL1\_HUMAN Interleukin-1 receptor accessory protein-like 1 OS=Homo sapiens  
GN=IL1RAPL1 PE=1 SV=2

MKAPIPHLILLYATFTQSLKVVTKRGSADGCTDWSIDIKKYQVLVGE PVRIKCALFYGYI  
RTNYSLAQSAGLSLMWYKSSGPGDFE EPIAFDGS RMSKEEDSIWFRPTLLQDSGLYACVI  
RNSTYCMKVISISLTVGENDTGLCYN SKMYFEKAELSKSKEISCRDIEDFLLPTREPEIL  
WYKECRTKTWRPSIVFKRDTLLIREVREDDIGNYTCELKYGGFVVRRTTELTVTAPLTDK



PPKLLYPMESKLTIQETQLGDSANLTCRAFFGYSGDVSPLIYWMKGEKFIEDLDENRVWE  
SDIRILKEHLGEQEVSI SLIVDSVEEGDLGNYSCYVENGNRRHASVLLHKRELMYTVEL  
AGGLGAILLLLVLCLVTIYKCYKIEIMLFYRNHFGAEELDGDNDYDAYLSYTKVDPDQWN  
QETGEEERFALEILPDMLEKHGYKLFIPDRDLIPTGTIYIEDVARCVDQSKRLIIVMPN  
YVVRGWSIFELETRLRNMLVTGEIKVILIECSELRGIMNYQEVEALKHTIKLLTVIKWH  
GPKCNKLNSKFWKRLQYEMPFKRIEPI THEQALDVSEQGPFGE LQTVSAISMAAATSTAL  
ATAHPDLRSTFHNTYHYSQMRQKHYYRSYEYDVPPTGTLPLTSIGNQHTYCNIPMTLINGQ  
RPQTKSSREQNPDEAHTNSAILPLLPRETSISSVIW

>sp|P78413|IRX4\_HUMAN Iroquois-class homeodomain protein IRX-4 OS=Homo sapiens GN=IRX4  
PE=1 SV=2

MSYPQFGYPYSSAPQFLMATNSLSTCCESGGRTLADSGPAASAQAPVYCPVYESRLLATA  
RHELNSAAALGVYGGPYGGSQGYGNYVTYGEASAFYSLNSFDSKDGSGSAHGGLAPAAA  
AYYPYEPALGQYPYDRYGTMDSGTRRK NATRETTSTLKAWLQEHKKNPYPTKGEKIMLAI  
ITKMTLTQVSTWFANARRRLKKENKMTWPPRNKCADEKRPYAEGE EEEEEGGEEEAAREEPLK  
SSKNAEPVGKEEKELESLD LDFDPLEAEPPACELKPPFHS LDGGLERVPAAPDGPVKEA  
SGALRMSLAAGGGAALDEDLERARSCLRSAAAGPEPLPGAEGGPQVCEAKLGFVPAGASA  
GLEAKPRIWSLAHTATAAAAAATSLSQTEFPSCMLKRQGPAAPAAVSSAPATSPSVALPH  
SGALDRHQDSPVTS LRNVWDGVFHDPILRHSTLNQAWATAKGALLDPGPLGRSLGAGANV  
LTAPLARAFPPAVPQDAPAAGAARELLALPKAGGKPFCA

>sp|P05161|ISG15\_HUMAN Ubiquitin-like protein ISG15 OS=Homo sapiens GN=ISG15 PE=1 SV=5

MGWDLTVKMLAGNEFQVSLSSMSVSELKAQITQKIGVHAFQQLAVHPSGVALQDRVPL  
ASQGLGPGSTVLLVVDKCEPLSILVRNNKGRSSTYEVRLTQTVAHLKQVSGLEGVQDD  
LFWLTFEGKPLEDQLPLGEYGLKPLSTVFMNLR LRGGGTEPGGRS

>sp|O60575|ISK4\_HUMAN Serine protease inhibitor Kazal-type 4 OS=Homo sapiens GN=SPINK4  
PE=3 SV=1

MAVRQWVIALALALLVVDREVPVAAGKL PFSRMPICEH MVESPTCSQMSNLVCGTDGLT  
YTNECQLCLARIKTKQDIQIMKD GKC

>sp|Q9NQ38|ISK5\_HUMAN Serine protease inhibitor Kazal-type 5 OS=Homo sapiens GN=SPINK5  
PE=1 SV=2

MKIATVSVLLPLALCLIQDAASKNEDQEMCHEFQAFMKNGLFCPQDKKFFQSLDGIMFI  
NKCATCKMILEKEAKSQKRARHLARAPKATAPTELNCDDFKKGERDGFICPDYYEAVCG  
TDGKTYDNRCALCAENAKTGSIGVKSEGECKSSNPEQDVCSAFRPFVRDGR LGCTREND  
PVLGPDGKTHGNKCAMCAELFLKEAENAKREGETRIRRNAEKDFCKEYEQVRNGRLFCT  
RESDPVRGPDGRMHGNKCALCAEIFKQRFSEENSKTDQNLGKAEKTKVKREIVKLCSQY  
QNQAKNGILFCTRENDPIRGPDGKMHGNLCSMCQAYFQAENEKKKAEARARNKRESGKA  
TSYAELCSEYRKLVRNGKLACTRENDPIQGPDGKVHGNTCSMCEVFFQAE EEEEEKKKKEGK  
SRNKRQSKSTASFEELCSEYRSRKNRGLFCTRENDPIQGPDGKMHGNTCSMCEAFFQQE  
ERARAKAKREA AKEICSEFRDQVRNGTLICTREHNPVRGPDGKMHGNKCAMCASVF KLEE  
EEKNDKEEKGVKVEAEKVKREAVQELCSEYRHYVRNGRLPCTRENDPIEGLDGKIHGNTC  
SMCEAFFQQEAK EKERAEPRAKVKREAEKETCDEFRRLLQNGKLFCTRENDPVRGPDGKT  
HGNCAMCKAVFQKENEERKRKEEEDQRNAAGHGSSGGGGGNTQDECAEYREQMKNGRLS  
CTRESDPVRDADGKSYNNQCTMCKAKLERAERKNEYSRSRNGTGESGKDT CDEF RSQ  
MKNKGLICTRESDPVRGPDGKTHGNKCTMCKEKLERA AEKKKKKEDEDRSNTGERSNTGE  
RSNDKEDLCREFRSMQRNGKLICTREN NPVRGPYGMHINKCAMCQSIFDREANERKKKD

EEKSSSKPSNNAKDECSEFRNYIRNNELICPRENDPVHGADGKFYTNKCYMCRAVFLTEA  
LERAKLQEKPSHVRASQEEDSPDSFSSLDSEMCKDYRVLPRIGYLCPKDLKPVCGDDGQT  
YNNPCLCHENLIRQNTNTHIRSTGKCEESSTPGTTAASMPPSDE

>sp|P17301|ITA2\_HUMAN Integrin alpha-2 OS=Homo sapiens GN=ITGA2 PE=1 SV=1  
MGPRTGAAPLPLLLVLALSQGILNCCLAYNVGLPEAKIFSGPSSEQFGYAVQQFINPKG  
NWLLVGSPWSGFPENRMGDVYKCPVDLSTATCEKLNLTSTIPNVTEMKTNMSLGLILT  
RNMGTGGFLTTCGPLWAQQCGNYYTTGVCSDISPDFQLSASFSPATQPCPSLIDVVVCD  
ESNSIYPWDAVKNFLEKFVQGLDIGPTKTQVGLIQYANNPRVFNLTNYKTKKEEMIVATS  
QTSQYGGDLTNTFGAIQYARKYAYSAAAGGRRSATKVMVVTDGESHDGSMKAVIDQC  
HDNILRFGIAVLGYLNRNALDTKNLIKEIKAIASIPTERYFFNVSDEAALEKAGTLGEQ  
IFSIEGTVQGGDNFQMEMSQVGFSAQDYSSQNDILMLGAVGAFGWSGTIVQKTSHGHLIFP  
KQAFDQILQDRNHSSYLGYSAVAISTGESTHFVAGAPRANYTGQIVLYSVNENGNIIVIQ  
AHRGDQIGSYFGSVLCSVDVDKDTITDVLLVGAPMYMSDLKKEEGRVYLFTIKKILGQH  
QFLEGPEGIENTRFGSAIAALSDINMDGFNDVIVGSPLNQNSGAVYIYNHGHGTIRTKY  
SQKILGSDGAFRSHLQYFGRSLDGYGDLNGDSITDVSIGAFGQVQLWSQSIADVAIEAS  
FTPEKITLVNKAQIILKLCFSKFRPTKQNNQVAIVYNTLDADGFSSRVTSRGLFKEN  
NERCLQKNMVVNQAQSCPEHIYIQEPSDVVNSLDLRVDISLENPGTSPALEAYSETAKV  
FSIPFHKDCGEDGLCISDLVLDVRQIPAAQEQPFIVSNQNKRLTFSVTLKNKRESAYNTG  
IVVDFSENLFASFSLPVDGTEVTCQVAASQKSVACDVGYPALKREQQVTFITNDFNLQ  
NLQNAQSLSFQALSESQEEKADNLVNLKIPLLYDAEIHILTRSTNINFYEISSDGNVPSI  
VHSFEDVGPKFIFSLKVTTGSPVSMATVIHIPQYTKENPLMYLTGVQTDKAGDISCN  
ADINPLKIGQTSSSVSFKSENFRHTKELNCRITASCSNVTCWLKDVHMKGEYFVNVTTRIW  
NGTFASSTFQTVQLTAAAEINTYNPEIYVIEDNTVTIPLMIMKPDEKAEVPTGVIIGSII  
AGILLALLAILWKLGFKRYEKMTPNPDEIDETTELSS

>sp|Q13797|ITA9\_HUMAN Integrin alpha-9 OS=Homo sapiens GN=ITGA9 PE=1 SV=2  
MGGPAAPRGAGRLRALLLALVAGIPAGAYNLDPQRPVHFQGPADSFFGYAVLEHFDHNT  
RWVLVGAPKADSKYSPSVKSPGAVFKCRVHTNPDRRCTELDMARGKNRGTSCKTCREDR  
DDEWMGVSLARQPKADGRVLACAHRWKNIYYEADHILPHGFCYIIPSNLQAKGRTLIPCY  
EEYKKKYGEEHSGCQAGIAGFFTEELVVMGAPGSFYWAGTIKVLNLTNTYLKLNDVIM  
NRRYTYLGYAVTAGHFHSHPTIDVVGAPQDKGIGKVYIFRADRRSGTLIKIFQASGKKM  
GSYFGSSLCVLDLNGDGLSDLLVGAPMFSEIRDEGQVTYVYINRGNGALEEQALATGDGAY  
NAHFGESIASLDDLNDGFPDVAIGAPKEDDFAGAVYIYHGDAGGIVPQYSMKLSGQKIN  
PVLRMFGQSISGGIDMDGNGYPDVTVGAFMSDSVLLRARPVITVDVSIFLPGSINITAP  
QCHDGGQPVNCLNVTTCFSFHGKHVPGEIGLNYVLMADVAKKEKGQMPRVYFVLLGETMG  
QVTEKLQLTYMEETCRHYVAHVKKRRVQDVISPIVEAAYSLSHVTEGEEERELPPLTPVL  
RWKKGQKIAQKNQTVFERNCRSEDCAADLQLQGKLLSSMDEKTLYLALGAVKNISLNTS  
ISNLGDDAYDANVSFNVSRLEFFINMWQKEEMGISCELLESDFLKCSVGFPFMRSSKYE  
FSVIFDTSHLSGEEEVLSFIVTAQSGNTERSESLHDNTLVLMPLMHEVDTSITGIMSPT  
SFVYGESVDAANFIQLDDLECHFQPINITLQVYNTGPSTLPGSSVSISFPNRLSSGGAEM  
FHVQEMVVGQEKGNCSFQKNPTPCIIPQEENIFHTIFAFFTKSGRKVLDCEKPGISCLT  
AHCNFSALAKEESRTIDIYMLNTEILKKDSSSVIQFMSRAKVKVPALRVVEIAHGNPE  
EVTVFEEALHNLEPRGYVVGWIIAISLLVGILIFLLAVLLWKMGGFRRRYKEIEAEKN  
RKENEDSWDWVQKNQ

>sp|P05556|ITB1\_HUMAN Integrin beta-1 OS=Homo sapiens GN=ITGB1 PE=1 SV=2

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPT  
SARCDLEALKKKGCPDDIENPRGSKDIKKNKNTNRSGTAEKLPEDITQIQPQLV  
LRLRSGEPQFTFLKFKRAEDYPIDLYLMDLSYSMKDDLNVKSLGTDLMNEMRRITSDF  
RIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTNKGEVFNELVGKQR  
ISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGIVLPNDGQ  
CHLENNMYTMSHYDYPSIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTL  
SANSSNVIQLIIDAYNSLSSEVILENGKLESGVTISYKSYCKNGVNGTGENGKCSNISI  
GDEVQFEISITSNKC PKKSDSFKIRPLGFTEEVEVILQYICECECQSEGIPESPKCHEG  
NGTFECGACRCNEGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRK  
RDNTNEIYSGKFCECDNFNCDSNGLICGGNGVCKCRVCECNPNYTGSACDCSLDTSTCE  
ASNGQICNGRGICECGVCKCTDPKFQGTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDT  
CTQEC SYFNITKVESRDKLQPVQPDVSHCKEKD VDCWFYFTYSVNGNNEVMHVVEN  
PECPTGPDIIPIVAGVVAGIVLIGLALLLIWKLLMIHDRREFAKFEKEKMNAKWDGTGEN  
PIYKSAVTTVVNPKYEGK

>sp|Q969R8|ITFG2\_HUMAN Integrin-alpha FG-GAP repeat-containing protein 2 OS=Homo sapiens  
GN=ITFG2 PE=1 SV=1

MRSVSYVQRVALEFSGSLFPHAICLGVDNDTLNELVVGDTSGKVS VYKNDDSRPWL TCS  
CQGMLTCVGVGDVCNKGNLLVAVSAEGWFH LFDLTPAKVLDASGHHE TLIGEEQRPVFK  
QHIPANTKVMLISDIDGDGCRELVVGYTDRVVRAFRWEELGEGPEHLTGQLVSLKKWMLE  
GQVDSL SVTLGPLGLPELMVSQPGCAYAILLCTWKKDTGSPPASEGPTDGSRETPAARDV  
VLHQTSGRIHNKNVSTHLIGNIKQGHGTESGSGLFALCTLDGTLKLMEEMEEADKLLWS  
VQVDHQLFALEKLDVTGNGHEEVACAWDGQTYIIDHNRTVVRVFQVDENIRAF CAGLYAC  
KEGRNSPCLVYVTFNQKIYVYWEVQLERMESTNLVKLLETKPEYHSL LQELGVDPDDL PV  
TRALLHQ TLYHPDQPPQCAPSSLQDPT

>sp|095965|ITGBL\_HUMAN Integrin beta-like protein 1 OS=Homo sapiens GN=ITGBL1 PE=2 SV=1

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ALCHGRGRCDGVCICHVTEPGMFFGPLCECHEWVCETYDGSTCAGHGKCDGKCKCDQG  
WYGDACQYPTNCDLTKKKS NMCKNSQDIICSNAGTCHCGRCKCDNSDGSGLVYGFCEC  
DDRECIDDETEEICGGHGKCYCGNCYCKAGWHGDKCE FQCDITPWESKRRTSPDGKICS  
NRGTCVCGECTCHDVPTGDWGD IHGDTCECDEDCRAVYDRYSDDFCSGHGQCNCGRCD  
CKAGWY GKKCEHPQSCTLSAEESIRKCQGS S DLPSCSGRGKCEGKCTCYPPGDRRVYGT  
CECDRRCEDLDGVVCGGHGTCSGRCVCERGWFGKLCQHPRKCNMTEEQSKNLCE S ADG  
ILCSGKGSCHCGKCICSAEEWYISGEFCD CDDRDCDKHDGLICTGNGICSCGNCECWDGW  
NGNACEIWL GSEYP

>sp|Q14624|ITIH4\_HUMAN Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens  
GN=ITIH4 PE=1 SV=4

MKPPRPVRTCSKVLVLLSLLAIHQTTTAEKNGIDIYSLTVDSRVSSRFAHTVVTSRVVNR  
ANTVQEATFQMELPKKAFITNFSMIIDGMTYPGIIKEKAEAAQYSAAVAKGSAGLVKA  
TGRNMEQFQVSVSVPNAKITFELVYEE LLKRRLGVYELLLKVRPQQLVKHLQMDIHIFE  
PQGISFLETESTFMTNQLVDALTTWQNKTKAHIRFKPTLSQQQKSPEQQETVLDGNLIIR  
YDVDRAISGSGSIQIENG YFVHYFAPEGLTTPKNNV FVIDKSGSMSGRKIQQTREALIKI  
LDDLSPRDQFNLI VFSTEATQWRPSLV PASAENVNKARSFAAGIQALGGTNINDAM LMAV  
QLLDSSNQEERLPEGSVSLIILLTDGDPTVGETNPRS IQNNVREAVSGRYS LFCLGFGFD  
VSYAFLEKLALDNGGLARRIHEDSDSALQLQDFYQEVANPLLTAVTFEYPSNAVEEVTQN

NFRLLFKGSEMVVAGKLQDRGPDVLTATVSGKLPTQNITFQTESSVAEQEAEFQSPKYIF  
HNFMERLWAYLTIQQLLEQTVSASDADQQALRNQALNLSLAYSFVTPLTSMVVTKPDDQE  
QSQVAEKPMEGESRNRNVHSGSTFFKYIYLQGAKIPKPEASFSPRRGWNRRQAGAAGSRMNF  
RPGVLSRRQLGLPGPPDVPDHAAYHPFRRLAILPASAPPATSNPDPAVSRVMNMKIEETT  
MTTQTPAPIQAPSAILPLPGQSVERLCVDPRHRQGPVNLLSDPEQGVEVTGQYEREKAGF  
SWIEVTFKNPLVWVHASPEHVVTNRNRSSAYKWKETLFSVMPGLKMTMDKTGLLLLSDP  
DKVTIGLLFWDGRGEGLRLLLLRDTDRFSSHVG GTLGQFYQEV LWGSPAASDDGRRTL RVQ  
GNDHSATRERRLDYQEGPPGVEISCWSVEL

>sp|Q6PHW0|IYD1\_HUMAN Iodotyrosine deiodinase 1 OS=Homo sapiens GN=IYD PE=1 SV=2

MYFLTPILVAILCILVWVIFKNADRSMEKKKGEPRTAEARPWVDEDLKDSSDLHQAEED  
ADEWQESEENVEHIPFSHNHYPEKEMVKRSQEFYELLNKRRSVRFISNEQVPMVIDNVI  
RTAGTAPSGAHTPEWTFVVKDPDVHKIRKII EEEEEINYMKRMGHRWVTDLKKLRTNW  
IKEYLDTAPILILIFKQVHGFAANGKKKVHYNEISVSIACGILLAALQNAGLVTVTTP  
LNCGPRLRVLLGRPAHEKLLMLLPVGYPskeatVPDLKRKPLDQIMTV

>sp|Q6UXV1|IZUM2\_HUMAN Izumo sperm-egg fusion protein 2 OS=Homo sapiens GN=IZUM02 PE=2  
SV=1

MPLALTLLLLSGLGAPGGWGCLQCDPLVLEALGHLRSALIPSRFQLEQLQARAGAVLMGM  
EGPFFRDYALNVFVGK VETNQLDLVASFVKNQTQHLMGNSLKDEPLLEELVTLRANVIKE  
FKKVLISYELKACNP KLCRLLKEEVL DCLHCQRITPKCIHKKYCFVDRQPRVALQYQMDS  
KYPRNQALLGILISVSLAVFV FVVIVVSACTYRQNRKLLQ

>sp|P23458|JAK1\_HUMAN Tyrosine-protein kinase JAK1 OS=Homo sapiens GN=JAK1 PE=1 SV=2

MQYLNKEDCNAMAFCAKMRSSKKTEVNLEAPEPGVEVIFYLSDREPLRLGSGEYTAEEEL  
CIRAAQACRISPLCHNLFALYDENTKLWYAPNRTITVDDKMSRLHYRMRFYFTNWHGTN  
DNEQSVWRHSPKKQKNGYEKKIPDATPLLDASSLEYLFAQGQYDLVKCLAPIRDPKTEQ  
DGHDIENECLGMAVLAISHYAMMKMQLPELPKDISYKRYIPETLNKSIRQRNLLTRMRI  
NNVFKDFLKEFNKTCIDSSSVSTHDLKVYLATLETLTkHYGAEIFETSMLLISSENMEN  
WFHSNDGGNVLYYEVMTGNLGIQWRHKPNVVSVEKEKNKLKRKKLENKHKKDEEKNKIR  
EEWNNFSYFPEITHIVIKESVVSINKQDNKKMELKLSSHEEALSFVSLVDGYFRLTADAH  
HYLCTDVAPPLIVHNIQNGCHGPICTEYAINKL RQEGSEEGMYVLRWSCTDFDNILMTVT  
CFEKSEVQGAQKQFKNFQIEVQKGRYSLHGSDRSFPSLGDLSHLKKQILRTDNISFML  
KRCCQPKPREISNLLVATKKAQEWQPVYPMQSLSFDRILKKDLVQGEHLGRGTRTHIYSG  
TLMDYKDDEGTSEEKKIKVILKVLDP SHRDISLAFFEAASMMRQVSHKHIVYLYGVCVRD  
VENIMVEEFVEGGPLDLFMHRKSDVLTTPWKFKVAKQLASALSYLEDKDLVHGNVCTKNL  
LLAREGIDSECGPFIKLSDPGIPITVLSRQECIERIPWIAPECVEDSKNLSVAADKWSFG  
TTLWEICYNGEIP LKDKTLIEKERFYESRCRPVTPSCKELADLMTRCMNYDPNQRPFRA  
IMRDINKLEEQNPDIVSEKKPATEVDPTHFEKRFLKRIRDLGEGHFGKVELCRYDPEGDN  
TGEQVAVKSLKPESGGNHIADLKEIEILRNLYHENIVKYKGICTEDGGNGIKLIMEFLP  
SGSLKEYLPKNKNKINLKQQLKYAVQICKGMDYLGSRQYVHRDLAARNVLVESEHQVKIG  
DFGLTKAIE TDKEYYTVKDDRSPVFWYAPECLMQSKFYIASDVWSFGVTLHELLTYCDS  
DSSPMALFLKMIGPTHGQMTVTRLVNTLKEGKRLPCPPNCPDEVYQLMRKCWEFQPSNRT  
SFQNLIEGF EALLK

>sp|Q9BX67|JAM3\_HUMAN Junctional adhesion molecule C OS=Homo sapiens GN=JAM3 PE=1 SV=1

MALRRPPRLRLCARLPDFFLLLLFRGCLIGAVNLKSSNRTPVVQEFESVELSCIITDSQT  
SDPRIEWKKIQDEQTTYVFFDNKIQGDLAGRAEILGKTS LKIWNVTRRDSALYRCEVVAR

NDRKEIDEIVIELTVQVKPVPVCRVPKAVPVGKMATLHCQESEGHPRPHYSWYRNDVPL  
PTDSRANPRFRNSSFHLNSETGTLVFTAVHKDDSGYYCIASNDAGSARCEEQEMEVDL  
NIGGIIGGVLVVLAVLALITLGICCAYRRGYFINNKQDGESYKNPGKPDGVNYIRTDEEG  
DFRHKSSFVI

>sp|Q15652|JHD2C\_HUMAN Probable JmJc domain-containing histone demethylation protein 2C  
OS=Homo sapiens GN=JMJD1C PE=1 SV=2

MAVETRAELVGKRFLCVAVGDEARSERWESGRGWSWRAGVIRAVSHRDSRNPDLAVYVE  
FDDLEWDKREWWKVYEDFSTFLVEYHLIWAQRNDPSQTQGSKSKQIQWPALTFKPLVERN  
IPSSVTAVEFLVDKQLDFLTEDSAFQPYQDDIDSLNPVLRDNPQLHEEVKVWVKEQKVQE  
IFMQGPYSLNGYRVRYRQDSATQWFTGIIITHDLFTRTIVMNDQVLEPQNVDPSPVQM  
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SPHLLGQAHPASYNQLGLYPIIWQYPNGTHAYSGGLPSSKWHPENAVNAEASLRNS  
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KAFMEPLRSVASTSAKNDLDLNRSTQTKDCHLHRHFVDPVLNQLQRPPQETGERLNKYKE  
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TSLSKPPLIKHQPESEGLVGKIPHLPHQIASHSVTTFRNDCRSPHTLTVSSTNTLRSM  
PALHRAVPVFHPPIHSLERKEGSYSSLSPPTLTPVMPVNAGGKVQESQKPPTLIPKPKDS  
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DGFEEVSKRQKNKSGETTVVLKLDWPSGEDFKTMMPARYED

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KIREFLQKISKEQGLEVLPEHDPIRDQSWYVNNKLRQRLLLEEYGVRTCTLIQFLGDAIVL  
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>sp|P52292|IMA1\_HUMAN Importin subunit alpha-1 OS=Homo sapiens GN=KPNA2 PE=1 SV=1  
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TSPLQENRNNQGTWNWSVDDIVKGINSSNVENQLQATQAARKLLSREKQPPIDNIIRAGL  
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QAVWALGNIAGDGSVFRDLVIKYGAVDPLLALLAVPDMSSLACGYLRNLTWTLSNLCRNK  
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NITAGRQDQIQVVNHGLVPFLVSVLSKADFKTQKEAVWAVTNYTSGGTVEQIVYLVHCG  
IIEPLMNLTAKDTKIILVILDAISNIFQAAEKLGETEKL SIMIEECGLDKIEALQNHE  
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>sp|P52294|IMA5\_HUMAN Importin subunit alpha-5 OS=Homo sapiens GN=KPNA1 PE=1 SV=3  
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VMSDGGFHEAQISNMEMAPGGVITSDMIEMIFSKSPEQQLSATQKFRKLLSKEPNPPIDE  
VISTPGVVARFVEFLRKENCTLQFESAWVLTNIASGNSLQTRIVIQAGAVPIFIELLSS  
EFEDVQEQAQVWALGNIAGDSTMCRDYLDCNLPPLLQLFSKQNRMTMRNAVWALS NLC  
RGKSPPEFAKVSPCLNVLSWLLFVSDDVLADACWALSYS DGPNDKIQAVIDAGVCRR  
LVELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSALQSLHLLSSPKESIKKEACW  
TISNITAGNRAQIQTVIDANIFPALISILQTAEFRTRKEAAWAITNATSGGSAEQIKYLV  
ELGCIKPLCDLLTMDSKIVQVALNGLENILRLGEQEA KRNGTGINPYCALIEEAYGLDK  
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>sp|A9QM74|IMA8\_HUMAN Importin subunit alpha-8 OS=Homo sapiens GN=KPNA7 PE=1 SV=1  
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KTAKGVAVSLTLGEIKGVNSSDPVLCFQATQTARKMLSQEKNPPLKLVIEAGLIPRMVE  
FLKSSLYPCLQFEAAWALTNISGTSEQTRAVVEGGAIQPLIELLSSSNVAVCEQAVWAL  
GNIAGDGPFRDNVITSNAIPHLLALISPTLPITFLRNITWTLSNLCRNKNPYPCDTAVK  
QILPALLHLLQHQSSEVLSDACWALS YLTDGSKRIGQVVNTGVLPRLVVLMTSSELNVL  
TPSLRTVGNIVTGTDEQTQMAIDAGMLNVLPQLLQHNKPSIQKEAAWALS NVAAGPCHHI  
QQLLAYDVLPLVALLKNGEFKVQKEAVWMVANFATGATMDQLIQLVHSGVLEPLVNLLT  
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>sp|O14732|IMPA2\_HUMAN Inositol monophosphatase 2 OS=Homo sapiens GN=IMPA2 PE=1 SV=1  
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VEDLIISELRERFPShRFIAEEAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSI  
GFAVRQELEFGVIYHCTEERLYTGRRGGAFCNGQRLRVSGETDLSKALVLTEIGPKRDP  
ATLKLFLSNMERLLHAKAHGVRVIGSSTLALCHLASGAADAYYQFGLHCWDLAAATVIIR  
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>sp|Q9NX62|IMPA3\_HUMAN Inositol monophosphatase 3 OS=Homo sapiens GN=IMPAD1 PE=1 SV=1  
MAPMGIRLSPLGVAVFCLLGLGVLYHLYSGFLAGRFSFLGGLGEPGGGAAGPAAAADGGT  
VDLREMLAVSVLAAVRGGDEVRRRVRESNVLHEKSKGKTREGAEDKMTSGDVLSNRKMFYL

LKTAFPSVQINTEEHVDAADQEVILWDHKIPEDILKEVTPKEVPAESVTWIDPLDATQ  
EYTEDLRKYVTTMVCVAVNGKPM LGVIHKPFSEYTAWAMVDGGSNVKARSSYNEKTPRIV  
VSRSHSGMVKQVALQTFGNQTTIIPAGGAGYKVLALLDVPDKSQEKADLYIHVTYIKKWD  
ICAGNAILKALGGHMTLSGEEISYTGSDGIEGGLLASIRMNHQALVRKLPDLEKTGHK

>sp|Q6PI98|IN80C\_HUMAN IN080 complex subunit C OS=Homo sapiens GN=IN080C PE=1 SV=1

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ENKMVPSEFSTGPVEKAAKPLPFKDPNFVHSGHGGAVAGKKNRTWKNLKQILASERALPW  
QLNDPNYFSIDAPPSFKPAKKYSVDVSGLLANYTDPQSKLRFSTIEEFSYIRRLPSDVVTG  
YLALRKATSIVP

>sp|Q8NBZ0|IN80E\_HUMAN IN080 complex subunit E OS=Homo sapiens GN=IN080E PE=1 SV=1

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ENVDESDSDSDATASSDNSETEGTPKLSDTAPAKRKRSPPLGGAPSPSSL LPPSTGFPL  
QASGVPSPYLSSLASSRYPPFPSDYALQLPEPSPLRPKREKRPRLPRLKMAVGPPDCP  
VGGPLTFPGRGSGAGVGTTLTPLPPPKMPPPTILSTVPRQMFSDAGSGDDALDGDDDLVI  
DIPE

>sp|Q8NI35|INADL\_HUMAN InaD-like protein OS=Homo sapiens GN=PATJ PE=1 SV=3

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SVIQQMAQGRQIEYIDIERPSTGGLGFSVVALRSQNLGKVDIFVKDVQPGSVADRDQRLK  
ENDQILAINHTPLDQNIHQAIALLQQTGSLRLIVAREPVHTKSSTSSSLNDTTLPET  
VCWGHVEEVELINDGSGLGFGIVGGKTSGVVVRTIVPGLADRDGRLQTGDHILKIGGTN  
VQGMTSEQVAQVLRNCGNSVRMLVARDPAGDISVTPPAPAALPVALPTVASKGPGSDSSL  
FETYNVELVRKDGQSLGIRIVGYVGTSHTEASGIYVKSII PGSAAYHNGHIQVNDKIVA  
VDGVNIQGFANHDVVEVLNAGQVVHLTLVRRKTSSTSPLEPPSDRGTVVEPLKPPALF  
LTGAVETETNVDGEDEEIKERIDTLKNDNIQALEKLEKVPDSPENELKSRWENLLGPDYE  
VMVATLDTQIADDAELQKYSKLLPIHTLRLGVEVDSFDGHHYISSIVSGGPVDTLGLLQP  
EDELLEVNGMQLYGKSRREAVSFLKEVPPPFTLVCCRRLFDEASVDEPRRTETSLPETE  
VDHNMVDVNTTEEDDDGELALWSPEVKIVELVKDCKGLGFSILDYQDPLDPTRSVIVIRSLV  
ADGVAERSGGLLP GDRLVSVNEYCLDNTSLAEAVEILKAVPPGLVHLGICKPLVEDNEEE  
SCYILHSSSNEDKTEFSGTIHDINSSLILEAPKGFRDEPYFKEELVDEPFDLGKSFHSQ  
QKEIEQSKEAWEMHEFLTPRLQEMDEEREILVDEEYELYQDPSPSMELYPLSHIQEATPV  
PSVNELHFGTQWLHDNEPSESQEARTGRTVYSQEAQPYGYCPENVMKENFVMESLPSVPS  
TEGNSQQGRFDDLENLNSLAKTSLDLGMIPNDVQGPSLLIDL PVVAQRREQEDLPLYQH Q  
ATRVISKASAYTGMLSSRYATDTCELPEREEGEGEETPNF SHWGP PRIVEIFREP NVSLG  
ISIVGGQTVIKRLKNGEELKGIFIKQVLEDSPAGKTNALKTGDKILEVSGVDLQNASHSE  
AVEA IKNAGNPVVFIVQSLSTPRVIPNVHNKANKITGNQNQDTQEKKEKRQGTAPPPMK  
LPPPYKALTDDSDENEEEDAFTDQKIRQRYADLP GELHII ELEKDKNGLGLSLAGNKDRS  
RMSIFVVGINPEGPAAADGRMRIGDELLEINNQILYGRSHQNASAI IKTAPSKVKLVFIR  
NEDAVNQMAVTPFPVPSSSPSSIEDQSGTEPISSEEDGSVEVGIKQLPESESFKLAVSQM  
KQQKYPTKVSFSSQEIPLAPASSYHSTDADFTGYGGFQAPLSVDPATCPIVPGQEMIIEI  
SKGRSGLGLSIVGGKDTPLNAIIVHEVYEEGAAARDGRLWAGDQILEVNGVDLRNSSHEE  
AITALRQTPQKVRLVYRDEAHYRDEENLEIFPVDLQKKAGRGLGLSIVGKRNGSGVFIS  
DIVKGGAADLDGRLIQGDQILSVNGEDMRNASQETVATILKCAQGLVQLEIGRLRAGSWT  
SARTTSQNSQGSQQSAHSSCHPSFAPVITGLQNLVGTKRVSDPSQKNSGTDMEPRTVEIN

RELSDALGISIAGGRGSPLGDIPVFIAMIQASGVAARTQKLKVGDRIVSINGQPLDGLSH  
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D

>sp|P48551|INAR2\_HUMAN Interferon alpha/beta receptor 2 OS=Homo sapiens GN=IFNAR2 PE=1  
SV=1

MLLSQNAFIFRSLNLVLMVYISLVFGISYDSPDYTDESCTFKISLRNFRSILSWELKNHS  
IVPTHYTLTYIMSKPEDLKVVKNCANTTRSFCDLTDEWRSTHEAYTVLEGFSGNTTLF  
SCSHNFWLAIDMSFEPPEFEIVGFTNHINVMVKFPSIVEEELQFDLSLVIEEQSEGIVKK  
HKPEIKGNMSGNYTYIIDKLIPNTNYCVSVYLEHSDEQAVIKSPLKCTLLPPGQESAE  
SAKIGGIITVFLIALVLTSTIVTLKWIGYICLRNSLPKVLNFHFLAWFPNLPPEAMD  
MVEVIYINRKKKVDYNYDDSDSDTEAAPRTSGGGYTMHGLTVRPLGQASATSTESQLI  
DPESSEEPDLPEVDDELPTMPKDSPPQLELLSGPCERRKSPLQDPFPEEDYSSTEGSGGR  
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>sp|Q0VD86|INCA1\_HUMAN Protein INCA1 OS=Homo sapiens GN=INCA1 PE=1 SV=1

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HIPMMLRATGCSQLGLYPPEQLPPPEMLWRRKKRRPCLEGMQQQGLGGVPARVRAVYHL  
EDLRRRQSIINELKKAQWGSSGAASEPVVLGEEGCGFPSTNEYPDLEERATYPQEEDRF  
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>sp|P05111|INHA\_HUMAN Inhibin alpha chain OS=Homo sapiens GN=INHA PE=1 SV=1

MVLHLLFLLLTPQGGHSCQGLELARELVLAKVRALFLDALGPPAVTREGGDPGVRRLLPR  
RHALGGFTHRGSEPEEEEDVSQAILFPATDASCEDKSAARGLAQEAEEGLFRYMFRRPSQH  
TRSRQVTSACLWFHTGLDRQGTAAANSSEPLLGLLALSPGGPVAVPMSLGHAPPHWAVLH  
LATSALSLLTHPVLVLLRCPLCTCSARPEATPFLVAHTRTRPPSGGERARRSTPLMSWP  
WSPSALRLLQRPPEEPAAHANCHRVALNISFQELGWERWIVPPSFIHYCHGGCGLHIP  
PNLSLPVPGAPPTPAQPYSLLPGAQPCCAALPGTMRPLHVRTTSDGGYSFKYETVPNLLT  
QHCACI

>sp|P08476|INHBA\_HUMAN Inhibin beta A chain OS=Homo sapiens GN=INHBA PE=1 SV=2

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SEIITFAESGTARKTLHFEISKEGSDLSVVERAEVWLFLKVPKANRTRTKVTIRLFQQQK  
HPQGS�DTGEEAEVGLKGERSELLSEKVDARKSTWHVFPVSSSIQRLLDQKSSLDV  
RIACEQCQESGASVLLGKKKKKEEGEGKKKGGEGGAGADEEKEQSHRPFLMLQARQS  
EDHPRRRRRRGLECDGKVNICKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAG  
TSGSSLSFHSTVINHYMRGHSPFANLSCCVPTKLRPMSMLYDDGQNIKKDIQNMIV  
EECGCS

>sp|Q9ULG1|INO80\_HUMAN DNA helicase INO80 OS=Homo sapiens GN=INO80 PE=1 SV=2

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LLPQSGDPLIQVKEPPNSLLGETSGAGSSGMLNTYSLNGLQSESKCDKGNLYNFSKLK  
KSRKWLKSILLSDESSEADQSSEDDEEELNLSREELHNMLRLHKKYKLLHQNKYSKDKEL  
QQYQYYSAGLLSTYDPFYEQQRHLLGPKKKKFKEEKKLAKLKKVKKRRRDEELSSEES  
PRRHHHTKVFAKFSHDAPPGTKKKHLSIEQLNARRRKVWLSIVKKELPKANKQKASAR  
NLFLTNSRKLAHQCMKEVRRALQAQKNCKETLPRARRLTKEMLLYWKYKVEKEHRKR  
AEKEALEQRKLDDEEMREAKRQQRKLNFLITQTELYAHFMSRKRDMGHGDIQEEILRKLED



SSTQRQIDIGGGVVVNITQEDYDSNHFKAQALKNAENAYHIHQARTRSFDEDAKESRAAA  
LRAANKSGTGFGEISLANPSIRAGEDIPQPTIFNGKLKGYQLKGMNLANLYEQGINGI  
LADEMLGKTVQSIALLAHLAERENIWGPFLIISPASTLNNWHQEFTRFVPKFKVLPYWG  
NPHDRKVIIRRFWSQKTLTYQDAPFHVVITSYQLVVQDVKYFQRVKWQYMLDEAQALKSS  
SSVRWKILLQFQCRNRLLLTGTPITQNTMAELWALLHFIMPTLFDSHEEFNEWFSKDIESH  
AENKSAIDENQLSRLHMILKPFMLRRIKKDVENELSDKIEILMYCQLTSRQKLLYQALKN  
KISIEDLLQSSMGSTQQAQNTTSSLMNLVMQFRKVCNHPELFERQETWSPFHISLKPYPHI  
SKFIYRHGQIRVFNHSRDRWLRLVSPFAPDYIQRSLFHRKGINEESCFSFLRFIDISPAE  
MANMLQGLLARWLALFLSLKASYRLHQLRSWGAPEGESHQRYLRNKDFLLGVNFPLSFP  
NLCSCPLLKSLVFSSHCKAVSGYSDQVVHQRRSATSSLRRCLLTLPSPFLCVASPRVTAV  
PLDSYCNDRSAEYERRVLKEGGSAAKQCLLNGAPELAADWLNRRSQFFPEPAGGLWSIR  
PQNGWSFIRIPGESLITDSGKLYALDVLLTRLKSQGHRVLIYSQMTRMIDLLEEYMVYR  
KHTYMRLDGSSKISERRDMVADFQNRNDIFVLLSTRAGGLGINLTAADTVIFYDSWNP  
TVDQQAMDRAHRLGQTKQVTVYRLICKGTIEERILQRAKEKSEIQRMVISGGNFKPDTLK  
PKEVSVLLLDDEELEKKLRLRQEEKRQEEETNRVKERKRKREKYAEKKKKEDELGKRRK  
EGVNLVIPFVPSADNSNLSADGDDSFISVDSAMPSPFSEISISSELHTGSIPLESSSDM  
LVIVDDPASSAPQSRATNSPASITGSVSDTVNGISIQEMPAAGRHSARSRGRPKGSGST  
AKGAGKGRSRKSTAGSAAAMAGAKAGAAAASAAAYAAYGYNVSKGISASSPLQTSLVRPA  
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>sp|Q5TA45|INT11\_HUMAN Integrator complex subunit 11 OS=Homo sapiens GN=CPSF3L PE=1 SV=2

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LDCVLIISHFHLDHCGALPYFSEMVGYPYIMTHPTQAICPILLEDYRKIAVDKKGEANF  
FTSQMIKDCMKKVAVHLHQTQVQVDELEIKAYYAGHVLGAAMFQIKVGSSESVYTGDYN  
MTPDRHLGAAWIDKCRPNLLITESTYATTIRDSKRCRERDFLKKVHETVERGGKVLIPVF  
ALGRAQELCILLETFWERMNLKVPIYFSTGLTEKANHYKLFIPWTNQKIRKTFVQRNMF  
EFKHIAFDRAFADNPGPMVVFATPGMLHAGQSLQIFRKWAGNEKNMVIMPGYCVQGTVG  
HKILSGQRKLEMEGRQVLEVKMQVEYMSFSAHADAKGIMQLVGQAEPESVLLVHGEAKKM  
EFLKQKIEQELRVNICYMPANGETVTLPTSPSIPVGISLGLLKREMAQGLLPEAKPRLH  
GTLIMKDSNFRLLVSSEQALKELGLAEHQLRFTCRVHLHDTRKEQETALRVYSHLKSVLKD  
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>sp|Q8N201|INT1\_HUMAN Integrator complex subunit 1 OS=Homo sapiens GN=INTS1 PE=1 SV=2

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AAAALSSASALTGLTKRPKLSSTPPLSALGRLAEEAAVAEKRAISPSIKEPSVVPPIEVLPT  
VLLDEIEAAAELEGNDRIEGLCGAVKQLKVTRAKPDSTLYLSLMYLAKIKPNIFATEGV  
IEALCSLLRRDASINFKAKGNSLVSVLACNLLMAAYEEDENWPEIFVKVYIEDSLGERIW  
VDSPHCKTFVDNIQTAFNTRMPPRSVLLQGEAGRVAGDLGAGSSPHPSLTEEEDSQTELL  
IAEEKLSPEQEGQLMPRYEELAESVEEYVLDMLRDQLNRRQPIDNVSRLRLRLTSTCGY  
KEVRLAVQKLEMWLQNPKLTRPAQDLLMSVCMNCNTHGSEDMDVISHLIKIRLKPVKVLL  
NHFMLCIRELLSAHKDNLGTTIKLVIFNELSSARNPNNMQVLYTALQHSSSELAPKFLAMV  
FQDLLTNKDDYLASRALREIIKQTKHEINFQAFCLGLMQRKEPQYLEMEFKERFVVH  
ITDVLAVSMMLGITAQVKEAGIAWDKGEKRNLEVLRSFQNQIAAIQRDAVWWLHTVVPSI  
SKLAPKDYVHCHLHKVLFTEQPETYKWDNWPPESDRNFFLRCLCEVPILEDTLMRILVIG  
LSRELPLGPADAMELADHLVKRAAAVQADDVEVLKVGRTQLIDAVLNLCTYHHPENIQLP  
PGYQPPNLAISTLYWKAWPLLLVVAAFNPENIGLAAWEEYPTLKMLMEMVMTNNYSYPPC

TLTDEETRTEMLNRELQTAQREKQEILAFEGHLAAASTKQTITESSLLLSQLTSLDPQG  
PPRRPPPHILDQVKSLSLRLGHLLCRSRNPDFLLHIIQRQASSQSMPWLADLVQSSEG  
SLDVLVPVQCLCEFLLDHDAVDDAASGEEDDEGESKEQKAKKRQRQQKQRQLLGRLLQDLLG  
PKADEQTTCEVLDYFLRRLGSSQVASRVLAMKGLSLVLEGSRLDGEEKEPPMEEDVGD  
DVLQGYQWLLRDLPRPLFDSVRSTTALALQQAIIHMETDPQTISAYLIYLSQHTPVEEQA  
QHSDLALDVARLVVERSTIMSHLFSKLSPSAASDAVLSALLSIFSRVRRMRQSKEGEEV  
YSWSESQDQVFLRWSSGETATMHILVVHAMVILLTLGPPRADDSEFQALLDIWFPEEKPL  
PTAFLVDTSEEALLLPDWLKLRLMIRSEVLRLVDAALQDLEPQQLLLFVQSFGIPVSSMSK  
LLQFLDQAVAHDPQTLEQNIMDKNYMAHLVEVQHERGASGGQTFHSLLTASLPPRRDSTE  
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QQALGQELARVVQGSPEVPGITVRVLQALATLLSSPHGGALVMSMRSHFLACPLLRQLC  
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LLRLAEALAFRQDLEVVSSTVRAVIATLRSGEQCSVEPDLISKVLQGLIEVRSPHLEELL  
TAFFSATADAASPPACKPVVVSSLLQEEEEPLAGGKPGADGGSLEAVRLGPSSGLLVD  
WLEMLDPEVVSSCPDLQLRLLFSRRKGKGAQVPSFRPYLLTLFTHQSSWPTLHQCIRVL  
LGKSREQRFDPASLDFLWACIHPRIWQGRDQRTQKRREELVLRVQGPESISLVELIL  
AEAETRSQDGDAAACSLIQARLPLLLSCCGDDESVRKVTESLHSGCIQQWGDVLRRCR  
DLLLLQYLQRPRLVPVPEVLLHSEGAASSSVCKLDGLIHRFITLLADTSDSRALENRGA  
DASMACRKLAVAHPLLLLRHLPMAALLHGRTHLNFQEFRQQNHLSCFLHVLGLLELLQP  
HVFRSEHQGALWDCLLSFIRLLNRYKSSRHAAAFINKFVQFIHKYITYNAPAAISFLQK  
HADPLHDLSDFNDSLMLKSLLAGLSLPSRDDRTDRGLDEEGEESSAGSLPLVSVSLFT  
PLTAAEMAPYMKRLSRGQTVEDLLEVLSDIDEMSRRRPEILSFFSTNLQRLMSSAECCR  
NLAFSLALRSMQNSPSIAAAFLPTFMYCLGSQDFEVVQTALRNLPEYALLCQEHAAVLLH  
RAFLVGMYGQMDPSAQISEALRIHMEAVM

>sp|Q9H0H0|INT2\_HUMAN Integrator complex subunit 2 OS=Homo sapiens GN=INTS2 PE=1 SV=2

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SQSWAQDKKILRLLSGVEAVNSIVALLSVDFHALEQDASKEQQLRHKLGGSGESILVS  
QLQHGLTLEFEHSDSPRRLRLVSELLAIMNKVSESNGEFFFKSSELFESPVYLEEADV  
LCILQAEPLSLLPIVDVAEALLHVRNGAWFLCLLVANVPDSFNEVCRGLIKNGERQDEES  
LGRRRTDALRFLCKMNPSQALKVRGMVVEECHLPGLGVALTDHTKNEACEDGVSDLVC  
FVSGLLLTNAKVRTWFGTFIRNGQQRKRETSSSVLWQMRRQLLELMGILPTVRSTRIV  
EADVDMEPNVSVYSGLKEEHVKASALLRLYCALMGIAGLKPTEEEAEQLQLMTSRPP  
ATPAGVRVVSLSFCMLLAFSTLVSTPEQEQLMVVWLSWMIKEEAYFESTSGVSASFGEML  
LLVAMYFHSNQLSAIDLVCSLTGMKIVIKPSSLSRMKTIFTQEIFTEQVVTAAHVRVPV  
TSNLSANITGFLPIHCITYQLLRSRSTKHKVSIKDWIYRQLCETSTPLHPQLPLIDVYI  
NSILTPASKSNPEATNQPVTEQEILNIFQGVIGGDNIRLNQRFSITAQLLVLYIILSYEE  
ALLANTKTLAAMQRKPKSYSSSLMDQPIKFLIRQAQGLQQLGGLHSALLRLLATNYPH  
LCIVDDWICEEITGTDALLRRMLLTNNAKNHSPKQLQEAFSAVPVNTQVMQIIIEHLTL  
LSASELIPYAEVLTSNMSQLLSGVPRRILQTVNKLWMVLNTVMPRRLWMTVNALQPSI  
KFVRQQKYTQNDLMIDPLIVLRCDQRVHRCPLMDITLHMLNGYLLASKAYLSAHLKETE  
QDRPSQNNITGLVGQTDAPVETREELKNALLAAQDSAAVQILLEICLPTEEEKANGVNP  
SLLRNQSVVITTSAPNKGMEEGEDNLLCNLREVQCLICLLHQMYIADPNIAKLVHFQGY  
PCELLPLTVAGIPSMHICLDFIPELIAQPELEKQIFAIQLLSHLCIQYALPKSLSVARLA  
VNVMGTLTLVLTQAKRYAFFMPTLPSLVSFCAFPPLYEDIMSLLIQIGQVCASDVATQT

RDIDPIITRLQQIKEKPSGWSQICKDSSYKNGSRDTGSMDPDVQLCHCIERTVIEIINMS  
VSGI

>sp|Q68E01|INT3\_HUMAN Integrator complex subunit 3 OS=Homo sapiens GN=INTS3 PE=1 SV=1

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SMTAGVSEREANDALNAYVCKGLPQHEEICLGLFTLILTEPAQAQKCYRDLALVSRDGMN  
IVLNKINQILMEKYLKLQDTCRTQLVWLVRRLVKSGLVADGVCMTFMKQIAGGGDVTA  
NIWLAESVLDILTEQREWVLKSSILIAMAVYTYLRLIVDHHGTAQLQALRQKEVDFCISL  
LRERFMECLMIGRDLVRLQLNVARIPFELLWKDIHNPQALSPQFTGILQLQSRTSRK  
FLACRLTPDMETKLLFMTSRVRFQGGQKRYQDWFQRQYLSTPDSQSLRCDLIRYICGVVHP  
SNEVLSSDILPRWAIIGWLLTTCTSNVAASNAKLALFYDWLFFSPDKDSIMNIEPAILVM  
HHSMKPHPAITATLLDFMCRIIPNFYPPLEGHVRQGVFSSLNHIVEKRVLAHLAPLFDNP  
KLDKELRAMLRKFPFECSSPSPVEVKIEEPVSMEMDNHMSDKDESCYDNAEAAFSDD  
EDLNSKGKKREFRHFPIKETVVEEPVDITPYLDQLDESLRDKVLQLQKGSDEAQCEVMQ  
EIVDQVLEEDFDSEQLSVLASCLQELFKAHFRGEVLPEEITEESLEESVGKPLYLIFRNL  
CQMVEDNSSFSLLDLLSELYQKQPKIGYHLLYYLRASKAAAGKMNLYESFAQATQLGDL  
HTCLMMDMKACQEDDVRLCHLTPSIYTEFPDETLRSGELLMIVAVIDSAQLQELVCHV  
MMGNLVMFRKDSVLNIIQLSDWETFEQYCAWQLFLAHNIPLIETIIPILQHLKYKEHPEA  
LSCLLQLRREKPSEEMVMVLSRPHDQFTTSLRHWCMDHDELLAEHIKSLLIKNN  
SLPRKRQSLRSSSSKLAQLTLEQILEHLDNLRNLNTKQNFSSQTPILQALQHVQASCD  
EAHKMKFSDFLSLAEYEDSSTKPPKSRRKAALSSPRSRKNATQPPNAEEESGSSSASEE  
EDTKPKPTKRKRKGSSAVGSDSD

>sp|Q9ULD6|INTU\_HUMAN Protein intuned OS=Homo sapiens GN=INTU PE=1 SV=2

MASVASCDSRPSSDELPGDPSSQEEDDYDFEDRVSDSGSYSSASSDYDDLEPEWLDSVQ  
KNGELFYLESEDEEESLLPETPTVNHVRFSENEIIIEDDYKERKKYEPKLKQFTKILRR  
KRLLPKRCNKNSNDNGPVSILKHQSNQKTGVIVQQRKYKDVNVYVNPVKLTVIKAKEQLK  
LLEVLVGIHQTKWSWRRTGKQGDGERLVHGLLPGGSAMKSGQVLIGDVLVAVNDVDVT  
TENIERVLSCIPGPMQVKLTFENAYDVKRETSHPRQKKTQSNTSDLVKLLWGEEVEGIQQ  
SGLNTPHIIMYLTQLDSETSKEEQEILYHYPMSEASQKLKSVRGIFLTLCMDLENVTGT  
QVTSSSLLNGKQIHVAYWKESDKLLLIGLPAAEVPLPRLRNMIENVIQTLKFMYSGLDS  
AFCQIENVPRLDHFNLFFQRALQPAKLHSSASPSAQYDASSAVLLDNLPGVRWLTPL  
EIKMELDMALSDLEAADFAELSEDYDMRRLYTILGSSLFYKGYLICSHLPKDDLIDIAV  
YCRHYCLLPLAAKQRIGQLIIWREVFQHHLRPLADSSTEVFPEPEGRYFLLVGLKHVM  
LCVLEAGGCASKAIGSPGPDVYVDQVKTTLHQLDGVDSRIDERLASSVPVCLSCADWF  
LTGSREKTDSLTSPILSRLQGTSKVATSPTCRRTLFGDYSKTRKPSPCSSGGSDNGC  
EGGEDDGFSPHTTPDAVRKQRESQGSGLLEESGTLKVTKKKSTLPNPFHLGNLKKDLPE  
KELEIYNTVKLTSGPENTLFHYVALETVQGIFITPTLEEVAQLSGSIHPQLIKNFHQCL  
SIRAVFQQTLEVEKKKGLNSGDHSDSAKSVSSLNPVKEHGVLFECSPGNWTDQKKAPPVM  
AYWVVGRLFLHPKPQELYVCFHDSVTEIAIEIAFKLFFGLTL

>sp|P07476|INVO\_HUMAN Involucrin OS=Homo sapiens GN=IVL PE=1 SV=2

MSQQHTLPVTLSPALSQELLKTVPPPVTNHQEQMKQPTPLPPCQKVPVELPVEVPSKQE  
EKHMTAVKGLPEQECEQQQKEPQEQLQQQHWEQHEEYQKAENPEQQLKQEKTRDQQLN  
KQLEEEKKLLDQQLDQELVKRDEQLGMKKEQLLELPEQQEGHLKHLEQQEGQLKHPQQE  
GQLELPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQE  
GQLELSEQQEGQLELSEQQEGQLKHEHQEGQLEVPPEEQMGQLKYLEQQEGQLKHLDDQE

KQPELPEQQMGQLKHLEQQEGQPKHLEQQEGQLEQLEEQEGQLKHLEQQEGQLEHLEHQE  
GQLGLPEQQVLQLKQLEKQQGQPKHLEEEEGQLKHLVQQEGQLKHLVQQEGQLEQQERQV  
EHLEQQVGQLKHLEEQEGQLKHLEQQQGQLEVPEQQVGQPKNLEQEEKQLELPEQQEGQV  
KHLEKQEAQLELPEQQVGQPKHLEQQEKHLEHPEQQDGQLKHLEQQEGQLKDLEQQKGQL  
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>sp|P27987|IP3KB\_HUMAN Inositol-trisphosphate 3-kinase B OS=Homo sapiens GN=ITPKB PE=1  
SV=5

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AESLSPEEPRSPGGWRSRRRLNSSSGSGSGSSSVSSPSWAGRLRGDRQQVVAAGTLS  
PPGPTEEAKRKLRLQRELQNVQVNQKVGMEAHQAQSSAIQAPRSPRLGRARSPSPCPF  
RSSSQPPGRVLVQGARSEERRTKSWGECPETSGTDSGRKGGPSLCSSQVKKGMPLPGR  
AAPTGSEAQGPSAFVRMEKGIPASPRCGSPTAMEIDKRGSPTPGTRSC LAPSLGLFGASL  
TMATEVAARVTSTGPHRPQDLALTEPSGRARELEDLPPEALVERQQGFLGSETSPAPER  
GGPRDGEPPGKMGKYLPCGMPGSGEPEVGKRPEETTTSVQSAESSDSLWSRLPRALAS  
VGPEEARSGAPVGGGRWQLSDRVEGGSPTLGLLGGSPSAQPGTGNVEAGIPSGRMLEPLP  
CWDAAKDLKEPQCPPGDRVGVQPGNSRVWQGTMEKAGLAWTRGTGVQSEGTWESQRQDSD  
ALPSPELLPQDPDKPFLRKACSPSNIPAVIITDMGTQEDGALEETQGSPRGNLPLRKLSS  
SSASSTGFSSSYEDSEEDISSDPERTLDPNSAFLHTLDQQKPRVSKSWRKIKNMVHWSPF  
VMSFKKKYPWIQLAGHAGSFKAAANGRILKKHCESEQRCLDRLMVDVLRPFV PAYHGDVV  
KDGERYNQMDLLADFDSPCVMDCCKMGIRTYLEEELTKARKKPSLRKDMYQKMI EVDPEA  
PTEEEKAQRAVTKPRYMQRWRETISSTATLGFRIEIGKKEDGTVNRDFKTKTREQVTEAF  
REFTKGNHNILIA YRDRLKAIRTTLEVSPFFKCHEVIGSSLLFIHDKKEQAKVWMIDFGK  
TTPLPEGQTLQHDVPWQEGNREDGYLSGLNNLVDILTEMSQDAPLA

>sp|Q96DU7|IP3KC\_HUMAN Inositol-trisphosphate 3-kinase C OS=Homo sapiens GN=ITPKC PE=1  
SV=1

MRRPCRGSLNEAEAGALPAAARMGLEAPRGRRRQPGQQRPGGAGAPAGRPEGGGPWA  
RTEGSSLHSEPERAGLG PAPGTESPAEFWTDGQTEPAAAGLVETERPKQKTEPDRSSL  
RTHLEWSWSELETTCLWTETGT DGLWTDPHRSDLQFQPEEAS PWTQPGVHGPWTELETHG  
SQTQPERVKSWADNLWTHQNSSSLQTHPEGACPSKEPSADGSWKELYTDGSRTQQDIEGP  
WTEPYTDGSQKKQDTEAARKQPGTGGFQIQQD TDGSWTQPSTDGSQTAPGTDCLLGE PED  
GPLEEPEPGELLTHLYSHLKCSPLCPVPRLIITPETPEPEAQVGPSPRVEGGSGGFSSA  
SSFDESEDDVVAGGGGASDPEDRSGSKPWKKLKTVLKYS PFVVSFRKHYPWVQLSGHAGN  
FQAGEDGRILKRFCQCEQRSLEQLMKDPLRPFPAYYGMVLQDGQTFNQMEDLLADFE GP  
SIMDCKMGSRTYLEEELVKARERPRPRKDMYEKMVAVDPGAPTPEEHAQGA VTKPRYMQR  
RETMSSTSTLGFRIEIGKADGTCNTNFKKTQALEQVTKVLEDFVDGDHVILQKYVACLE  
ELREALEISPF FKTHEVVGSSLLFVHDHTGLAKVWMIDFGKTVALPDHQTLSHRLPWAEG  
NREDGYLWGLDNMICLLQGLAQ S

>sp|Q9UHH9|IP6K2\_HUMAN Inositol hexakisphosphate kinase 2 OS=Homo sapiens GN=IP6K2 PE=1  
SV=2

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KFTPQYKGVVSVRFEEDERNLCLIA YPLKGDHGI VDIVDNSDCEPKSKLLRWT TNKHH  
VLETEKTPKDWRQRHREEKMKSHKLEEEFEWLKKSEVLYYTV EKKGNISSQLKHYNPWS  
MKCHQQQLQRMKENAKHRNQYKFILLENLTSRYEVP CVLDLKMGT RQHGD DASEEKAANQ  
IRKCQQSTSAVIGVRVCGMQVYQAGSGQLMFMNKYHGRKLSVQG FKEALFQFFHNGRYLR

RELLGPVLKKLTELKAVLERQESYRFYSSSLVLYDGKERPEVVLDSDAEDLEDLSEESA  
DESAGAYAYKPIGASSVDVRMIDFAHTTCRLYGEDTVVHEGQDAGYIFGLQSLIDIVTEI  
SEESGE

>sp|Q6NXS1|IPP2M\_HUMAN Protein phosphatase inhibitor 2-like protein 3 OS=Homo sapiens  
GN=PPP1R2P3 PE=1 SV=1

MAASTASHRPIKGILKNKTSTTSSMVASAEQPRRSVDEELSKKSQKWDEINILATYHPAD  
KGYGLMKIDEPSPPYHSMGDDDEDACRDTETTEAMAPGILAKKLAAEGLEPKYRIQEQE  
SSGEEDSDLSPEREKKRQFEMRRKLHYNEGLNIKLARQLISKDLHDDDEDEEMLETADG  
ESMNTEESNQGSTPSDQQQNKLRSS

>sp|P41236|IPP2\_HUMAN Protein phosphatase inhibitor 2 OS=Homo sapiens GN=PPP1R2 PE=1 SV=2

MAASTASHRPIKGILKNKTSTTSSMVASAEQPRGNVDEELSKKSQKWDEMNILATYHPAD  
KDYGLMKIDEPSTPYHSMGDDDEDACSDTEATEAMAPDILARKLAAEGLEPKYRIQEQE  
SSGEEDSDLSPEREKKRQFEMKRKLHYNEGLNIKLARQLISKDLHDDDEDEEMLETADG  
ESMNTEESNQGSTPSDQQQNKLRSS

>sp|Q15181|IPYR\_HUMAN Inorganic pyrophosphatase OS=Homo sapiens GN=PPA1 PE=1 SV=2

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPIYADKDVFMVVEVPRWSNAKMEI  
ATKDPLNPIKQDVKKGLRYVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDDPI  
DVCEIGSKVCARGEIIGVKVLGILAMIDEGETDWKVIAINVDDPDAANYNDINDVKRLKP  
GYLEATVDWFRRYKVPDGKPENEFAFNAEFKDKDFAIDIIKSTHDKWALVTKKTNGKGI  
SCMNTLSESPFKCDPDAARAIVDALPPCESACTVPTDVKWFHHQKN

>sp|Q6IPM2|IQCE\_HUMAN IQ domain-containing protein E OS=Homo sapiens GN=IQCE PE=1 SV=2

MFLGTGEPALDTGDDSLSAVTFDSVETKAKRKAFFHKPPPTSPKSPYLSKPRKVASWRSL  
RTAGSMPLGGRASLTQKLWLGTAKPGSLTQALNSPLTWEHAWTGVPGGTPDCLTDTRV  
KRPHLRRSASNGHVPGTVPYREKEDMYDEI IELKKS LHVQKSDVDLMRTKLRRLEEENSR  
KDRQIEQLLDPSRGTDVVRTLAEKRPDASWVINGLKQRILKLEQQCKEKDGTISKLQTD  
KTTNLEEMRIAMETYEEVHRLQTLLASSETTGKKPLGEKKTGAKRQKKMGSAALLSRS  
VQELTEENQSLKEDLDRVLSTPTISKTGQYVEWSKPRLLRRIVELEKKLSVMESSKSHA  
AEPVRSHPPACLASSALHRQPRGDRNKDHERLRGAVRDLKEERTALQEQLLQRDLEVKK  
LLQAKADLEKELECAREGEEERREREVLREEIQTLTSKLQELQEMKKEEKEDCPEVPHK  
AQELPAPTSSRHCEQDWPPDSSEGLPRPRSPCSDGRRDAAARVLQAQWKVYKHKKKKA  
VLDEAAVVLQAAFRGHLTRTKLLASKAHGSEPPSVPGLPDQSSPVPRVPSPIAQTGSPV  
QEEAIVIIQSALRAHLARHSATGKRRTTAASTRRRSASATHGDASSPPFLAALPDPSP  
SGPQALAPLPGDDVNSDDSDDIVIAPSLPTKNFPV

>sp|Q5JU85|IQEC2\_HUMAN IQ motif and SEC7 domain-containing protein 2 OS=Homo sapiens  
GN=IQSEC2 PE=1 SV=1

MEAGSGPPGGPGSESPNRAVEYLLELNNIIESQQQLLETQRRRIEELEGQLDQLTQENRD  
LREESQLHRGELHRDPHGARDSPGRESQYQNLRETQFHHRELRESQFHQAARDVGYPNRE  
GAYQNREAVYRDKERDASYPLQDITGYTARERDVAQCHLHHENPALGRERGGREAGPAHP  
GREKEAGYSAAVGVGPRPPRERGQLSRGASRSSPGAGGGHSTSTSTSPATTLQRNVEGD  
APGSDLSTAVDSPGSQPPYRLSQLPPSSSHMGPPAGVGLPWAQRARLQPASVALRKQEE  
EEIKRSKALSDSYELSTDLQDKKVEMLERKYGGSFLSRRAARTIQTAFRQYRMKNKFERL  
RSSASESRMSRRIILSNMRMQFSFEYEKAQNPAYFEGKPASLDEGAMAGARSHRLERGL  
PYGGSCGGIDGGGSSVTTSGEFSNDITELEDSFSKQVKS LAESIDEALNCHPSGPMSEE  
PGSAQLEKRESKEQQEDSSATSFSDLPLYLDDTVPQQSPERLPSTEPPPPQGRPEFWAPAP

LPPVPPVPVSGTREDGSREEGTRRGPGCLECRDFRLRAAHLPLLTIEPPSDSSVDLSDRS  
DRGSVHRQLVYEADGCSPHGTCLKHGPPGRAPIPHRHYPAPEGPAPAPPGLPPAPNSGT  
GPSGVAGGRRLLGKCEAAGENSDDGDNESLESSSNSNETINCSSGSSSRDSLREPPATGLC  
KQTYQRETRHSWDSAPFNNDVVQRRHYRIGLNLFNKKPEKGIQYLIERGFLSDTPVGVAH  
FILERKGLSRQMIGEFLGNRQKQFNRDVLDVVDMDFFSSMDLDDALRKFSHIRVQGEA  
QKVERLIEAFSQRVCVCPALVRQFRNPDTIFILAFIILLNTDMYSPSVKAERKMKLDD  
FIKNLRGVDNGEDIPRDLVGIIYQRIQGRELRTNDDHVSQVQAVERMIVGKKPVLSLPHR  
RLVCCCQLYEVPDNPRLGLGHQREVFLFNDLLVVTIKFQKKKILVTYSFRQSFPLVEM  
HMQLFQNSYYQFGIKLLSAVPGGERKVLIIFNAPSLQDRLRFTSDLRESIAEVQEMEKEYR  
VESELEKQKGMMPNASQPGGAKDSVNGTMRSSLEDYAGDGLKRGALSSSLRDLSDA  
GKRGRNSVGLSDSTIEGSVISSRPHQRMPPPPPPPEEYKSQRPVSNSSSFLGSLFG  
SKRGKGFQMPPPPTGQASASSSSASSTHHHHHHHHGHSHGGLGVLPDGGSKLQALHAQ  
YCQGGPAPPPYLPPQQPSLPPPPQQPPPLPQLGSIPPPASAPPVGPHRHFHAHGPVPG  
PQHYTLGRPGRAPRRGAGGHPQFAPHGRHPLHQPTSPLPLYSPAPQHPPAHKQGPKHFI  
SHHPQMMPAAGAAGGPGSRPPGGSYSHPHHPQSPLSPHSPIPPHPSYPPLPPSPHPTPHS  
PLPPTSPHGLHASGPPGTANPPSANPKAKPSRISTVV

>sp|P46940|IQGAI\_HUMAN Ras GTPase-activating-like protein IQGAP1 OS=Homo sapiens  
GN=IQGAP1 PE=1 SV=1

MSAADEV DGLGVARPHYGSVLDNERLTAEEMDERRRQNVAYEYLCHLEEAKRWMEACLGE  
DLPTTELEEGLRNGVYLAKLGNFFSPKVVSLLKKIYDREQTRYKATGLHFRHTDNVIQWL  
NAMDEIGLPKIFYPETTDIYDRKNMPCIIYCIHALSLYLFKLGLAPQIQDLYGKVDFTTE  
EINNMKTELEKYGIQMPAFSKIIGGILANELSVDEAALHAAVIAINEAIDRRIPADTFAAL  
KNPNAMLVNLEEPLASTYQDILYQAKQDKMTNAKNRTENSERERDVYEELLTQAEIQGNI  
NKVNTFSALANIDLALQGDALALFRALQSPALGLRGLQQNSDWYLLKQLSDKQKQRQS  
GQTDPLQKEELQSGVDAANSAAQQYQRRLAVALINAAIQKGVAEKTVLELMNPEAQLPQ  
VYPFAADLYQKELATLQRQSPEHNLTHPELSVAVEMLSVALINRAESGDVNTVWKQLS  
SSVTGLTNIEENCQRYLDELMLKKAQAHAENNEFITWNDIQACVDHVNLLVQEEHERIL  
AIGLINEALDEGDAQTLQALQIPAAKLEGVLAEVAQHYQDTLIRAKREKAQEIQDESAV  
LWLDEIQGGIWQSNKDTQEAQKFGALGIFAINAEVESGDVGKTLALRSPDVGLYGVIP  
GETYHSDLAEAKKKKLAVGDNNKVVKHVKGYYYYHNLLETQEGGWDEPPNFVQNSMQL  
SREEIQSSISGVTAAYNREQLWLANEGLITRLQARCRGYLVQRQEFRRMNFLLKKQIPAIT  
CIQSQRWRYGKQKAYQDRLAYLRSHKDEVVKIQSLARMHQARKRYRDLQYFRDHINDII  
KIQAFIRANKARDYKTLINAEPPMVVRKFVHLLDQSDQDFQEELDLMKMREEVITLI  
RSNQQLENDLNLMDIKIGLLVKNKITLQDVVSHSKLTKKNKEQLSDMMINKQKGGGLKA  
LSKEKREKLEAYQHLYLLQTNPTYLAKLIFQMPQNKSTKFMDSVIFTLYNYASNQREEY  
LLLRLFKTALQEEIKSKVDQIQEIVTGNPTVIKMVVSFNRGARGQNALRQILAPVVKEIM  
DDKSLNIKTDPVDIYKSWVNQMESQTGEASKLPYDVTPEQALAEHVKTRLDSSIRNMRA  
VTDKFLSAIVSSVDKIPYGMRFIAKVLKDSLHEKFPDAGEDELLKIIGNLLYYRYMNP  
VAPDAFDIIDLSAGGQLTTDQRRNLGSIKMLQHAASNKMFLGDNAHLSIINEYLSQSYQ  
KFRRFQACDVPELQDKFNVDEYSDLVTLTKPVIYISIGEINTHTLLLDHQDAIAPEH  
NDPIHELDDLGCVPTIESLIGESSGNLNDPNKEALAKTEVSLTLTNKFDVPGDENAEMD  
ARTILLNTKRLIVDVIRFQPGETLTEILETPATSEQEAHQRAMQRRAIRDAKTPDKMKK  
SKSVKEDSNLTLQEKKIKITGLKKLTELGTVPKNKYQELINDIARDIRNQRRYRQRRK  
AELVKLQQTYAALNSKATFYGEQVDYYKSYIKTCLDNLASKGKVSKKPREMKGKSKKIS

LKYTAARLHEKGVLEIEDLQVNQFKNVIFEISPTTEVGDFEVKAKFMGVQMETFMLHYQ  
DLLQLQYEGVAVMKLFDRAKVNVLNLLIFLLNKKFYGK

>sp|P51617|IRAK1\_HUMAN Interleukin-1 receptor-associated kinase 1 OS=Homo sapiens  
GN=IRAK1 PE=1 SV=2

MAGGPGGEPAAPGAQHFLYEVPVWMCRFYKVMdalepadWCQFAALIVRDQTELRLCE  
RSGQRTASVLWPWINRNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSS  
IPAPAEAEAWSPRKLPSASTFLSPAFIGSQTHSGPELGLVSPASLWPPPPSPAPSSTK  
PGPESSVSLLQGAPFPFCWPLCEISRGTHNFSEELKIGEGGFGCVYRAVMRNTVYAVKR  
LKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL  
HCQTQACPPLSWPQRDLILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFG  
LARFSRFAGSSPSQSSMVARTQTVRGTLAYLPEEYIKTGRLAVD TDFSFGVVVLETLAG  
QRAVKTHGARTKYLKDLVEEEAEAGVALRSTQSTLQAGLAADAWAAPIAMQIYKKHLDLP  
RPGPCPELGLGLGQLACCCLHRRAKRRPPMTQVYERLEKLQAVVAGVPGHSEAASCIPP  
SPQENSIVSSTGRAHSGAAPWQPLAAPSGASAAAEQLQRGNQPVESDES LGGLSAA LR  
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGS GPGSRPTAVEGLALGSSASSSSEPPQI  
IINPARQKMVQKLALYEDGALDSLQLSSSSLPGLGLEQDRQGPEESDEFQS

>sp|P48200|IREB2\_HUMAN Iron-responsive element-binding protein 2 OS=Homo sapiens GN=IREB2  
PE=1 SV=3

MDAPKAGYAFEYL IETLNDSSHKKFFDVSKLGTKYDVL PYSIRVLEAAVRNCDGFLMKK  
EDVMNILDWTKQSNVEVPPFFPARVLLQDFTGIPAMVDFAAAMREAVKTLGGDPEKVHPAC  
PTDLTVDHSLQIDFSKCAIQNAPNPGGDLQKAGKLSPVKVQPKKLPCRQGTTCRGSCDS  
GELGRNSGTFSSQIENTPILCPFHLQPVPEPETVLKNQEVEFGRNRERLQFFKWSSRVFK  
NVAVIPPGTGMHQINLEYLSRVVFEEDLLFPDSVVGTD SHITMVNGLGILGWVGGIE  
TEAVMLGLPVSLTLPEVVGCELTGSSNPFVTSIDVVLGITKHLRQVGVAGKFVEFFGSGV  
SQLSIVDRTTIANMCPEYGA ILSFFPVDNVT LKHLEHTGFSKAKLES METY LKAVKLFRN  
DQNSSGEPEYSQVIQINLSIVPSVSGPKRPQDRVAVTDMKSDFQACLNEKVGFGKFQIA  
AEKQKDIVSIHYEGSEYKLSHGSVVIAAVISCTNNCNPSVMLAAGLLAKKAVEAGLRVKP  
YIRTSLSPGSGMVTHYLSSSGVLPYLSKLGF EIVGYGCSICVGNTAPLSDAVLNAV KQGD  
LVTCGILSGNKNFEGRLCDCVRANYLASPPLVYAYAIAGTVNIDFQTEPLGTDPTGKN IY  
LHDIWPSREEVHRVEEEHVILSMFKALKDKIEMGNKRWNSLEAPDSVLPWDLKSTYIRC  
PSFFDKLTKEPIALQAIENAHVLLYLGD SVTTDHISPAGSIARNSAAAKYLTNRGLTPRE  
FNSYGARRGNDAVMTRGT FANIKLFNKFIGKPAPKTIHFPSGQTL DVFEAAELYQKEGIP  
LIILAGKKYSGNSRDWAAKGPYLLGVKAVLAESYEKIHKDH LIGIGIAPLQFLPGENAD  
SLGLSGRETFSLTFPEELSPGITLNIQTSTGKVFSVIASFEDDVEITLYKHGGLN FVAR  
KFS

>sp|Q13568|IRF5\_HUMAN Interferon regulatory factor 5 OS=Homo sapiens GN=IRF5 PE=1 SV=2

MNQSI PVAPT PPRVR LKPWLVAQVNSCQYPGLQWVNGEKKLFCIPWRHATRHGPSQDGD  
NTIFKAWAKETGKYTEGVDEADPAKWKANLRCALNKS RDFRLIYDGPRDMPPQPYKIYEV  
CSNGPAPTDSQPPEDYSFGAGEEEEEEEELQRMLPSLSLTEDVKWPPTLQPPTLRPPTLQ  
PPTLQPPVVLGPPAPDPSP LAPPPGNPAGFRELLSEVLEPGPLPASLPAGEQLLPDLLI  
SPHMLPLTDLEIKFQYRGRPPRALTISNPHGCRLFYSQLEATQE QVELFGPISLEQVRFP  
SPEDIPSDKRQFYTNQLLDVLDRLILQLQGQDLYAIRLCQCKVFWSGPCASAHDS CPNP  
IQREVKT KLSLEHFLNELILFQKGTNTPPPFEIFFCFGEWPDRKPREKKLITVQVVP  
VAARL LLEMFSGELSWSADSI RLQISNPDLKDRMVEQFKELHHIWQSQQRLQPVAQAPPG

AGLGVGQGPWPMHPAGMQ

>sp|Q96AZ6|ISG20\_HUMAN Interferon-stimulated gene 20 kDa protein OS=Homo sapiens GN=ISG20  
PE=1 SV=2

MAGSREVVAMDCEMVGLGPHRESGLARCSLVNVHGAVLYDKFIRPEGEITDYRTRVSGVT  
PQHMGATPFAVARLEILQLLKGLVVGHDLDKDFQALKEDMSGYTIYDTSTDRLWREA  
KLDHCCRVSRLVLSERLLHKSINSLGHSSVEDARATMELYQISQRIRARRGLPRLAVS  
D

>sp|Q6IE38|ISK14\_HUMAN Serine protease inhibitor Kazal-type 14 OS=Homo sapiens GN=SPINK14  
PE=3 SV=1

MAKSFVPVFSLLSFILHLVLSSVSGPRHWWPPRGIIVKCPYEKVNLSWYNGTVNCPGL  
YQPICGTNFITYDNPCILCVESLKSHGRIRFYHDGKC

>sp|P20155|ISK2\_HUMAN Serine protease inhibitor Kazal-type 2 OS=Homo sapiens GN=SPINK2  
PE=1 SV=2

MALSVLRLALLLAVTFAASLIPQFGLFSKYRTPNCSQYRLPGCPRHFNPCGSDMSTYA  
NECTLCMKIREGGHNIKIIRNGPC

>sp|P58062|ISK7\_HUMAN Serine protease inhibitor Kazal-type 7 OS=Homo sapiens GN=SPINK7  
PE=1 SV=1

MKITGGLLLLCTVVYFCSSEAAASLSPKKVDCSIYKKYPVVAIPCPITYLPVCGSDYITY  
GNECHLCTESLKSNGRVQFLHDGSC

>sp|Q96A47|ISL2\_HUMAN Insulin gene enhancer protein ISL-2 OS=Homo sapiens GN=ISL2 PE=1  
SV=1

MVDIIFHYFPLGAMGDHKKKPGTAMCVGCGSQIHDQFILRVSPDLEWHAACLKCAECSQ  
YLDETCTCFVRDGKTYCKRDYVRLFGIKCAKCQVGFSSSDLVMRARDSVYHIECFRCSVC  
SRQLLPGDEFSLREHELLCRADHGLLLERAAAGSPRSPGPLPGARGLHLPDAGSGRQPAL  
RPHVHKQTEKTTRVRTVLNEKQLHLRLTCYANPRPDALMKEQLVEMTGLSPRVIRVWFQ  
NKRCKDKKKSILMKQLQQQHSKDTSLQGLTGTPLVAGSPIRHENAVQGSAREVQTYQPP  
WKALSEFALQSDLDQPAFQQLVSFSESGSLGNSSGSDVTSLSQLPDTNPMVPSPVET

>sp|Q6UXK2|ISLR2\_HUMAN Immunoglobulin superfamily containing leucine-rich repeat protein  
2 OS=Homo sapiens GN=ISLR2 PE=2 SV=1

MFPLRALWLWVALLGVAGSCPEPCACVDKYAHQFADCAKELREVPEGLPANVTLSLSA  
NKITVLRGAFADVTQVTSWLAHNEVRTVEPGALAVLSQLKNLDLSHNFISFPWSDLR  
NLSALQLLKMNHNRLGSLPRDALGALPDLRLRINNRLRTLAPGTFDALSALSHLQLYH  
NPFHCGGLVWLQAWAASTRVSLPEPDSIACASPPALQGVVPYRLPALPCAPPSVHLSAE  
PPLEAPGTPLRAGLAFVLHCIADGHPTPRLQWQLQIPGGTVVLEPPVLSGEDDGVGAEEG  
EGEGDGLLTQTQAQTPTPAPAWPAPPATPRFLALANGSLLVPLLSAKEAGVYTCRAHNE  
LGANSTSIRVAVAATGPPKHAPGAGGEPDGQAPTSEKSTAKGRGNSVLPSPKEGKIKGQ  
GLAKVSILGETETEPEEDTSEGEAEQILADPAEEQRCGNGDPSRYVSNHAFNQSAELK  
PHVFELGVIALDVAEREARVQLTPLAARWGPGGAGGAPRGRRLRLLYLCPAGGGAA  
VQWSRVEEGVNAYWFRGLRPGTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVAVSVFL  
LVLATVPLLGAACCHLLAKHPGKPYRLILRPQAPDPMKRIAADFDPRASYLESEKSYPA  
GGEAGGEEPEDVQGEGLDEDAEQDPSGDLQREESLAACSLVESQSKANQEEFEAGSEYS  
DRLPLGAEAVNIAQEINGNYRQTAG

>sp|O14498|ISLR\_HUMAN Immunoglobulin superfamily containing leucine-rich repeat protein  
OS=Homo sapiens GN=ISLR PE=2 SV=1



MQELHLLWWALLLGLAQACPEPCDCGEKYGFQIADCAYRDLESVPPGFANVTTLSLSAN  
RLPGLPEGAFREVPLLQSLWLAHNEIRTVAAGALASLSHLKSLDLSHNLISDFAWSDLHN  
LSALQLLKMSNELTFIPRDAFRSLRALRSLQLNHNRLHTLAEGTFTPLTALSHLQINEN  
PFDCTCGIVWLKTWALTAVSIPEQDNIAC TSPHVLKGTPLSRLPPLPCSAPSVQLSYQP  
SQDGAELRPGFVLALHCDVDGQPAPQLHWHIQIPSGIVEITSPNVGTDGRALPGTPVASS  
QPRFQAFANGSLLIPDFGKLEEGTYSC LATNELGSAESSVDVALATPGEGGEDTLGRRFH  
GKAVEGKGCTVDNEVQPSGPEDNVV I IYLSRAGNPEAAVAEGVPGQLPPGLLLLGQSLL  
LFFFLTSTF

>sp|Q96CN7|ISOC1\_HUMAN Isochorismatase domain-containing protein 1 OS=Homo sapiens  
GN=ISOC1 PE=1 SV=3

MAAAEPAVLALPNSGAGGAGAPSGTVPVLFCSVVFARPSSVPHGAGYELLIQKFLSLYGD  
QIDMHRKFVVQLFAEEWGQYVDLPKGFAVSECKVRLVPLQIQLTTLGNLTPSSTVFFCC  
DMQERFRPAIKYFGDIISVGQRLLQGARILGIPVIVTEQYPKGLGSTVQEIDLTGVKLV  
PKTKFSMVLPEVEAALAEIPGVRSVVLFVETHVCIQQTAL ELVGRGVEVHIVADATSSR  
SMMDRMFALERLARTGIIVTTSEAVLLQLVADKDH PKFKEIQNLIKASAPESGLLSKV

>sp|A4D126|ISPD\_HUMAN Isoprenoid synthase domain-containing protein OS=Homo sapiens  
GN=ISPD PE=1 SV=2

MEAGPPGSARPAEPGPCLSGQRGADHTASASLQSVAGTEPGRHPQAVAAVL PAGGCGERM  
GVPTPKQFCPILERPLISYTLQALERVCIWKIDIVVAVTGENMEVMKSI IQKYQHKRISLV  
EAGVTRHRSIFNGLKALAEDQINSKLSKPEVVI IHDVVRPFVEEGVLLKVVTAAKEHGAA  
GAIRPLVSTVVSADGCLDYSLERARHRASEMPQAFLFDVIYEAYQQCSDYDLEFGTEC  
LQLALKYCCTKAKLVEGSPDLWKV TYKRDLYAAESI I KERISQEICVMDTEEDNKHVGH  
LLEEVLKSELNHVKVTSEALGHAGRHLQQI ILDQCYNFVCVNVTTSDFQETQKLLSML  
SSLCILYPVVVSVHF LDFKLVPSPQKMENLMQIREFAKEVKERNILLYGLLISYPQDDQ  
KLQESLRQGAI I IASLIKERN SGLIGQLLIA

>sp|Q8WWA0|ITLN1\_HUMAN Intelectin-1 OS=Homo sapiens GN=ITLN1 PE=1 SV=1

MNQLSFLFLIATTRGWSTDEANTYFKEWTCSSSPSLPRSCKEIKDECPSAFDGLYFLRT  
ENGVIYQTFCDMTSGGGWTLVASVHENDMRGKCTVGDRWSSQQGSKAVYPEGDGNWANY  
NTFGSAEAATSDDYKNPGYYDIAKDLGIWHPNKS PMQHWRNSSLLRYRTDTGFLQTLG  
HNLFGIYQKYPVKYGEKGCWTDNGPVI PVVYDFGDAQKTASYSPYGGQREFTAGFVQFRV  
FNNERAANALCAGMRVTGCNTEHHCI GGGGYFPEASPPQCGDFSGFDWSGYGTHVGYSS  
REITEAAVLLFYR

>sp|Q13572|ITPK1\_HUMAN Inositol-tetrakisphosphate 1-kinase OS=Homo sapiens GN=ITPK1 PE=1  
SV=2

MQTFLKGRVGYWLSEKKIKKLN FQAFAELCRKRGMEVVQLNLSRPIEEQG PLDVIIHKL  
TDVILEADQNDSQSLELVHRFQEYIDAHPETIVLDPLPAIRTL LDRSKSYELIRKIEAYM  
EDDRICSPPFMELTS LCGDDTMR LLEKNGLTFFPICKTRVAHGTNSHEMAIVFNQEGLNA  
IQPPCVVQNF INHNAVLYKVFVVGESYTVVQRPSLKNFSAGTSDRESIFFNSHNVS KPES  
SSVLT ELDKIEGVFERPSDEVIRELSRALRQALGVSLFGIDII INNQTGQHAVIDINAFP  
GYEGVSEFFTDLLNH IATVLQGGSTAMAATGDVALLRHSKLLAEPAGGLVGERTCSASPG  
CCGSMMGQDAPWKA EADAGGTAKLPHQLGCNAGVSPSFQQHCVASLATKASSQ

>sp|Q14573|ITPR3\_HUMAN Inositol 1,4,5-trisphosphate receptor type 3 OS=Homo sapiens  
GN=ITPR3 PE=1 SV=2

MSEMSSFLHIGDIVSLYAEGSVNGFISTLGLVDDRCVVEPAAGDLDNPPKKFRDCLFKVC

PMNRYSAQKQYWAKQTKQDKEKIADVLLQKLQHAAQMEQKQNDTENKKVHGDVVKYGS  
VIQLLHMKSNKYLTVNKRLPALLEKNAMRVTL DATGNEGSWLF IQPFWKLRSNGDNVVVG  
DKVILNPVNAGQPLHASNYELSDNAGCKEVNSVNCNTSWKINLFMQFRDHLEEVLKGGDV  
VRLFHAEQEKFLTCD EYKGLQVFLRTTLRQSATSATSSNALWEVEVVHHDPCRGGAGHW  
NGLYRFKHLATGNYLAAEENPSYKGDASDPKAAAGMAQGRTGRRNAGEKIKYCLVAVPHG  
NDIASL FELDPTTLQKTDSFVPRNSYVRLRHLCTNTW IQSTNVPIDIEEERPIRLMLGTC  
PTKEDKEAFAIVSVPVSEIRDLDFANDASSMLASAVEKLN EGFISQNDRRFVIQLLEDLV  
FFVSDVPNNGQNVLDIMVTKPNRERQKLMREQNILKQVFGILKAPFREKGGEGPLVRLEE  
LSDQKNAPYQHMFRLCYRVL RHSQEDYRKNQEHI AKQFGMMQSQIGYDILAEDTITALLH  
NNRKLEKHITKTEVETFVSLVRKNREPRFLDYLS DLCVSNHIAIPVTQELICKCVLDPK  
NSDILIRTEL RPVKEMAQSHEYLSIEYSEEEVWLTWTDKNEHHEKSVRQLAQEARAGNA  
HDENVLSYYRYQLKLFARMCLDRQYLAIDEISQQLGVDLIFLCMADEMLPFDLRASFCHL  
MLHVHVD RDPQELVTPVKFARLWTEIPTAITIKDYDSNLNASRDDKKNKFANTMEFVEDY  
LNNVSEAVPFANEEKNKLTFEVVS LAHNL IYFGFYSFSELLRLTRTL LGI IDC VQGPPA  
MLQAYEDPGGKNVRRSIQGVGHMMSTMVLSRKQSVFSAPSL SAGASAAEPLDRSKFEENE  
DIVVMETKLKILEILQFILNVRLDYRISYLLSVFKKEFVEVFPMQDSGADGTAPAFDSTT  
ANMNLDRIGEQAEMFGVGKTSSMLEVDDEGGRMFLRVLIHLTMHDYAPLVSGALQLL FK  
HFSQRQEAMHTFKQVQLLISAQDVENYKVIKSEL DRLRTMVEKSELWVDKKGSGKGEEVE  
AGAAKDKKERPTDEEGFLHPPGEKSS ENYQIVKGILERLNMCGVGEQMRKKQQRLLKNM  
DAHVM LDDLQIPYDKGDAKMMEILRYTHQFLQKFCAGNPGNQALLHKHLHLFLTPGLE  
AETMQHIFLNNYQLCSEISEPVLQH FVHLLATHGRHVQYLD FLHTVIKAEKGYVKKCQDM  
IMTEL TNAGDDVVVFYNDKASLAHLLDMMKAARDGVEDHSPLMYHISLVDLLAACAE GKN  
VYTEIKCTSLPLEDVVSVVTHEDCITEVKMAYVNFVNHCYVDTEVEMKEIYTSNHIWTL  
FENFTLDMARVCSKREKRVADPTLEKYVLSVVDLTIN AFFSSPFSENSTSLQTHQTI VVQ  
LLQSTTRLLECPWLQQQHKGSVEACIRTLAMVAKGRAILLPMDLDAHIS SMLSSGASCAA  
AAQRNASSYKATTRA FPRVTPTANQWDYKNIIEKLQDIITALEERLKPLVQAELSVLVDV  
LHWPELLFLEGSEAYQRCESGGFLSKLIQHTKDLMESEEKLCIKVLR TLQQMLLKKTKYG  
DRGNQLRKMLLQNYLQNRKSTSRGDLDP IGTGLDPDWSAIAATQCRLDKEGATKL VCDL  
ITSTKNEKIFQESIGLAIHLLDGGNTEIQKSFHNLMMSDKKSERFFKVLHDRMKRAQQET  
KSTVAVNMNDLGSQPHE DREPVDPTTKGRVASFSIPGSSSRYS LGPSLRRGHEV SERVQS  
SEMGTSVLIMQPI LRFLQLLCENHN RDLQNFLRCQNNKTNYNLVCETLQFLDIMCGSTTG  
GLGLGLYINEDNVLVIQTLETLTEYCQGPCHENQTCIVTHESNGIDIIT ALILNDISP  
LCKYRMDLV LQLKDNASKLLLALMESRHDSENAERILISLRPQELVDV IKKAYLQEEERE  
NSEVSPREVGHNIIYILALQLSRHNKQLQHLLKPVKRIQEEEAEGISSMLSLNNKLSQML  
KSSAPAEQEEEDPLAYYENHTSQIEIVRQDRSMEQIVFPVPGICQFLTEETKHRLFTTTE  
QDEQGSKVSDFFDQSSFLHNEMEWQRKLRSMP LIYWF SRRMTLWGSISFNLAVFINIIA  
FFYPYMEGASTGVLDSP LISLLFWILICFSIAALFTK RYSIRPLIVALILRSIYYLGIGP  
TLNILGALNL TNKIVFVVSFVGNRGTFIRGYKAMVMDMEFLYHVGYILTSVLGLFAHELF  
YSILLFDLIYREETLFNVIKSVTRNGRSILLTALLALILVYLF SIVGFLFLKDDFILEVD  
RLPNNHSTASPLGMPHGAAAFVDTCSGDKMDCVSGLSVPEVLEEDRELDSTERACDTLLM  
CIVTMNHGLRN GGGVGDI LRKPSKDESLF PARVVYDLLFFFI V I I IVLNLIFGVIIDTF  
ADLRSEKQKKEEILKTTCFICGLERDKFDNKTVSFEEHIKLEHNMWNYLYFIVLVRVKNK  
TDYTG PESYVAQMIKNKNDWFPRMRAMSLVSNEGEGEQNEIRILQDKLNSTMKLVSHLT  
AQLNELKEQMTEQRKRRQRLGFVDVQNCISR

>sp|Q9BW83|IFT27\_HUMAN Intraflagellar transport protein 27 homolog OS=Homo sapiens  
GN=IFT27 PE=1 SV=1

MVKLAAKCILAGDPAVGKTALAQIFRSDGAHFQKSYTLTTGMDLVVKTVPVPDGTGDSVEL  
FIFDSAGKELFSEMLDKLWESPNVLCVYDVTNEESFNNSKWLEKARSQAPGISLPGVL  
VGNKTDLAGRRAVDSAEARAWALGQGLECFETSVKEMENFEAPFHCLAKQFHQLYREKVE  
VFRALA

>sp|Q6U949|IG2AS\_HUMAN Putative insulin-like growth factor 2 antisense gene protein  
OS=Homo sapiens GN=IGF2-AS PE=2 SV=2

MSKRKWRGFRGAQQERAQPPAASPQPCAPHAGLPGGSRRRAPAPAGQQMRAESRSGAQ  
RRRGSARRGAHREAGGCVGRTRSSGSERSNALWQAVDAAEALALSSPLRRPWDQAQHFT  
NPAPFSKGPQSAPPSPAGRRRRGADLALTPLAGEGHTRWRQPGRPGK

>sp|Q6B9Z1|IGFL4\_HUMAN Insulin growth factor-like family member 4 OS=Homo sapiens GN=IGFL4  
PE=2 SV=1

MVPRISAAIFIFELLGSNSEGVTDLRLWLCQPAPRCGEWTYNPLEQCCDDGVILDNLNQR  
LCGSSCTFWPCFQHCCLESLSQNQTVVRFKVPGMKPDCKSSPITRICAQEYHPKSPVSR  
SDLI

>sp|Q6NXR0|IIGP5\_HUMAN Interferon-inducible GTPase 5 OS=Homo sapiens GN=IRGC PE=2 SV=1

MATSKLPVVPGEENTILMAKERLEALRTAFESGDLPAASHLQELLASTESIRLEVGVT  
GESGAGKSSLINALRGLEAEDPGAALTGVMETTMQPSYPHPQFPDVTLWDLPGAGSPGC  
PADKYLKQVDFSRDYDFLLVSPRRCGAVETRLAAEILCQKKFYFVRTKVEDLAATRTQ  
RPSGFREAAVLQEIRDHCAERLREAGVADPRIFLVSNLSPARYDFPTLVSTWEHDLPSHR  
RHAGLLSLPDISLEALQKKKAMLQEVLKTALVLGVIQALPVPGLAAAYDDALLIHSRLG  
YHRSFGLDDDSLAKLAEQVGKQAGDLRSVIRSPANEVSPETVLRLYSQSSDGAMRVARA  
FERGIPVFGTLVAGGISFGAVYTMLQGCLNEMAEDAQRVRIKALEDDEPQPEVSLEVASD  
NGVEKGGSGEGGEEAPLSTCRKLGLLLKYILDSWKKHDSSEEK

>sp|Q15653|IKBB\_HUMAN NF-kappa-B inhibitor beta OS=Homo sapiens GN=NFKBIB PE=1 SV=2

MAGVACLGKAADADEWCDSGLGSLGPDAAAPGGPGLGAELGPGLSWAPLVFGYVTEGDT  
ALHLAVIHQHEPFLDFLLGFSAGTEYMDLQNDLGQTALHLAAILGETSTVEKLYAAGAGL  
CVAERRGHTALHLACRVGAHACARALLQPRRRPREAPDTYLAQGPDRTPDTNHTPVALY  
PDSLEKEEEEESEEDWKLQLEAENYEGHTPLHVAVIHKDVEMVRLLRDAGADLDKPEPTC  
GRSPLHLAVEAQAADVLELLLRAGANPAARMYGGRTPLGSAMLRPNPILARLLRAHGAPE  
PEGEDEKSGPCSSSDSDSGDEGDEYDDIVHSSRSQTRLPPTPASKPLPDDPRPV

>sp|Q8NI38|IKBD\_HUMAN NF-kappa-B inhibitor delta OS=Homo sapiens GN=NFKBID PE=1 SV=1

MEAGPWRVSAPPSGPPQFPAPVPGPSLEVARAHMLALGPQQLLAQDEEGDTLLHLFAARG  
LRWAAYAAAEVLQVYRRLDIREHKGTPLLVAANQPLIVEDLLNLGAEPNAADHQGRS  
VLHVAATYGLPGVLLAVLNSGVQVDLEARDFEGLTPLHTAILALNVAMRPSDLCPRVLT  
QARDRLDCVHMLLQMGANHTSQEIKSNKTVLHLAVQAANPTLVQLLELPRGDLRTFVNM  
KAHGNTALHMAAALPPGPAQEAIVRHLLAAGADPTLRNLENEQPVHLLRPGPGPEGLRQL  
LKRSRVAPPGLSS

>sp|O00221|IKBE\_HUMAN NF-kappa-B inhibitor epsilon OS=Homo sapiens GN=NFKBIE PE=1 SV=3

MNQRRSESRPGNHRLQAYAEPGKGDSGGAGPLSGSARRGRGGGAIRVRRPCWGGAGRG  
GGPAWAVRLPTVTAGWTWPALRTLSSLRAGPSEPHSPGRRPPRAGRPLCQADPQPGKAAR  
RSLEPDPAQTGPRPARAAGMSEARKGPDEAEESQYDSGIESLRSLRSLPESTSAPASGPS  
DGSPQPCTHPPGPVKEPQEKEDADGERADSTYGSSSLTYTSLLGPEAEDPAPRLPLPH

VGALSPQQLEALTYISEDGDTLVHLAVIHEAPAVLLCCLALLPQEVLDIQNNLYQTALHL  
AVHLDQPGAVRALVLKGASRALQDRHGDTALHVACQRQHLACARCLLEGRPEPGRGTSHS  
LDLQLQNWQGLACLIATLQKNQPLMELLRLNGADIDVQEGTSGKTALHLAVETQERGLV  
QFLLQAGAQVDARMLNGCTPLHLAAGRGLMGISSTLCKAGADSLRNVEDETPQDLTEES  
LVLLPFDDLKISGKLLLCTD

>sp|Q9H5V7|IKZF5\_HUMAN Zinc finger protein Pegasus OS=Homo sapiens GN=IKZF5 PE=1 SV=1  
MGEKKPEPLDFVKDFQEYLTTQTHVNMISGVSVDKEAEALQGAGTDGDQNGLDHPSVE  
VSLDENSGMLVDGFERTFDGKLKCRYCNYASKGTARLIEHIRIHTGEKPHRCHLCPFASA  
YERHLEAHMRSHTGEKPYKCELCFSFRCSDRSNLSHHRRRKHKMVPKIGTRSSLSSKKMWG  
VLQKKTSNLGYRRALINLSPSPMVVQKPDYLNDFTHEIPNIQTDSYESMAKTTPGTGLP  
RDPQELMVDNPLNQLSTLAGQLSSLPPENQNPASPDVVPDPEKPFMIQQPSTQAVVSAV  
SASIPQSSSPTSPEPRPSHSQRNYSVPVAGPSSEPSAHTSTPSIGNSQPSTPAPALPVQDP  
QLLHHCQHCDMYFADNITYTIHMGCHGYENPFQCNICGCKCKNKYDFACHFARGQHNGH

>sp|P35225|IL13\_HUMAN Interleukin-13 OS=Homo sapiens GN=IL13 PE=1 SV=2  
MHPLLNPLLLALGLMALLLTIVIALTCLGGFASPGVPPSTALRELIEELVNITQNQKAP  
LCNGSMVWSINLTAGMYCAALESLINVSGCSAIEKTQRMLSGFCPHKVSAGQFSSLHVRD  
TKIEVAQFVKDLLLHLKKLFREGFRN

>sp|P60568|IL2\_HUMAN Interleukin-2 OS=Homo sapiens GN=IL2 PE=1 SV=1  
MYRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRML  
TFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE  
TTFMCEYADETATIVEFLNRWITFCQSIISTLT

>sp|O95760|IL33\_HUMAN Interleukin-33 OS=Homo sapiens GN=IL33 PE=1 SV=1  
MKPKMKYSTNKISTAKWKNTASKALCFKLGSQQKAKEVCPMYFMKLRSGLMIKKEACYF  
RRETTKRPSLKTGRKHKRHLVLAACQQQSTVECFAGISGVQKYTRALHDSSITGISPIT  
EYLASLSTYNDQSITFALEDESYEYVEDLKKDEKKDKVLLSYYESQHPSNESGDGVDGK  
MLMVTLSPTKDFWLHANNKEHSVELHKCEKPLPDQAFFVLHNMHSNCVSFECKTDPGVFI  
GVKDNHLALIKVDSSSENLCATENILFKLSET

>sp|P05112|IL4\_HUMAN Interleukin-4 OS=Homo sapiens GN=IL4 PE=1 SV=1  
MGLTSQLLPPLFLLACAGNFVGHKCDITLQEI IKTLSLTEQKTLCTELTVTDIFAAS  
KNTTEKETFCRAATVLRQFYSHHEKDTRCLGATAQQFHRHKQLIRFLKRLDRNLWGLAGL  
NSCPVKEANQSTLENFLERLKTIMREKYSKCSS

>sp|Q01344|IL5RA\_HUMAN Interleukin-5 receptor subunit alpha OS=Homo sapiens GN=IL5RA PE=1  
SV=2

MIIVAHVLLILLGATEILQADLLPDEKISLLPPVNFTIKVTGLAQVLLQWKPNDQEQRN  
VNLEYQVKINAPKEDDYETRITESKCVTILHKGFSASVRTILQNDHSLASSWASAEHLA  
PPGSPGTSIVNLCTTNTTEDNYSRLRSYQVSLHCTWLVGTDAPEDTQYFLYYRYGSWTE  
ECQEYSKDTLGRNIACWFPRTFILSKGRDWLAVLVNGSSKHSAIRPFDQLFALHAIDQIN  
PPLNVTAEIEGTRLSIQWEKPVSAFPIHCFDYEVKIHNTNRNGYLQIEKLMTNAFISIID  
LSKYDVQVRAAVSSMCREAGLWSEWSQPIYVGNDCHKPLREWFVIVIMATICFILLILSL  
ICKICHLWIKLFPIIPAPKSNIKDLFVTTNYEKAGSSETEIEVICYIEKPGVETLEDSVF

>sp|P08887|IL6RA\_HUMAN Interleukin-6 receptor subunit alpha OS=Homo sapiens GN=IL6R PE=1  
SV=1

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHW  
VLRKPAAGSHPSRWAGMGRRLLSVQLHDSGNYSCYRAGRPAAGTVHLLVDVPPEEPQLS

CFRKSPLSNVVCEWGPRSTPSLTTKAVLLVRKFQNSPAEDFQEPQCYSQESQKFSCQLAV  
PEGDSSFYIVSMCVASSVSGSKFSKTQTFQGGILQPDPPANITVTAVARNPRWLSVTWQD  
PHSWNSSFYRLRFELRYRAERSKTFTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQ  
GEWSEWSPEAMGTPWTESRSPAENEVSTPMQALTTNKDDDNILFRDSANATSLPVQDSS  
SVPLPTFLVAGGSLAFGTLLCIAIVLRFKKTWKLRLKEGKTSMHPPYSLGQLVPERPRP  
TPVLVPLISPPVSPSSLGSDNTSSHNRPDARDPRSPYDISNTDYFFPR

>sp|P40189|IL6RB\_HUMAN Interleukin-6 receptor subunit beta OS=Homo sapiens GN=IL6ST PE=1 SV=2

MLTLQTWLVQALFIFLTTESTGELLDPGCIYSPESPVVQLHSNFTAVCVLKEKCMDFHV  
NANYIVWKTNHTIPKEQYTIINRTASSVTFTDIASLNIQLTCNILTFGQLEQNVYGITI  
ISGLPPEKPKNLSCIVNEGKKMRCEWDGGRETHLETNFTLKSEWATHKFADCKAKRDTPT  
SCTVDYSTVYFVNIEVWVEAENALGKVTSDHINFDPVYKVKPNPPHNLVINSSEELSSIL  
KLTWTNPSIKSVIILKYNIQYRTKDASTWSQIPPEDTASTRSSFTVQDLKPFTEYVFRIR  
CMKEDGKGYSWSDWSEEASGITYEDRPSKAPSFYKIDPSHTQGYRTVQLVWKTLPPEAN  
GKILDYEVTLTRWKSHLQNYTVNATKLTVNLTNDRYLATLTVRNLVGKSDAAVLTIPACD  
FQATHPVMDLKAFPKDNMLWVEWTPRESVKKYILEWCVLSDKAPCITDWQQEDGTVHRT  
YLRGNLAESKCYLITVTPVYADGPGSPESIKAYLKQAPPSKGPTVRTKKVGKNEAVLEWD  
QLPVDVQNGFIRNYTIFYRTIIGNETAVNVDSSTHEYTLSSLTSDTLYMVRMAAYTDEGG  
KDGPEFTFTTPKFAQGEIEAIVVPVCLAFLLTLLGVLFCFNKRDLIKKHIWPNVPDPSK  
SHIAQWSPHTPPRHFNFSKDMYSDGNFTDVSVEIEANDKKPFPEDLKSLDLFKKEKIN  
TEGHSSGIGGSSCMSSSRPISSSDENESSQNTSSTVQYSTVVHSGYRHQVPSVQVFSRS  
ESTQPLLDSEERPEDLQLVDHVDGGDGILPRQYFKQNCQHESSPDISHFERSKQVSSV  
NEEDFVRLKQQISDHISQSCGSGQMKMFQEVSAADAFGPGTEGQVERFETVGMEEATDEG  
MPKSYLPQTVRQGGYMPQ

>sp|Q9NV31|IMP3\_HUMAN U3 small nucleolar ribonucleoprotein protein IMP3 OS=Homo sapiens GN=IMP3 PE=1 SV=1

MVRKLFHEQKLLKQVDFLNWEVTDHNLHELRLRRYRLQRREDYTRYNQLSRAVRELAR  
RLRDLPERDQFRVRASAALLDKLYALGLVPTRGSLELCDFVTASSFCRRRLPTVLLKLRM  
AQHLQAAVAFVEQGHVRVGPVVDPAFLVTRSMEDFVTWVDSSKIKRHVLEYNEERDDF  
DLEA

>sp|Q17R60|IMPG1\_HUMAN Interphotoreceptor matrix proteoglycan 1 OS=Homo sapiens GN=IMPG1 PE=1 SV=2

MYLETRRAIFVFWIFLQVQGTKDISINIHSETKDIDNPPRNETTESTEKMYKMSTMRRRI  
FDLAKHRTKRSAFFPTGVKVCPESMKQILDSLQAYYRLRVCQEAVWEAYRIFLDRIPTD  
GEYQDWVSICQQETFCFLDIGKNFSNSQEHLDLLQQRKQSFDPDRKDEISAETLGEPG  
ETIVISTDVANVSLGPFPLTPDDTLLNEILDNTLNDTKMPTTERETFAVLEEQRVELSV  
SLVNQKFKAELADSQSPYYQELAGKSQLQMOKIFKKLPGFKKIHVLGFRPKKEKDGSSST  
EMQLTAIFKRHSAEAKSPASDLLSFDSNKIESEEVYHGTMEEDKQPEIYLTATDLKRLIS  
KALEEEQSLDVGTIQFTDEIAGSLPAFGPDTQSELPTSFAVITEDATLSPELPPVEPQLE  
TVDGAEHGLPDTWSPPAMASTSLSEAPPFMASSIFSLTDQGTDTMATDQTMLVPGLT  
IPTSDYSAISQLALGISHPPASSDDSRSSAGGEDMVRHLEMDLSDTPAPSEVPELSEYV  
SVPDHFLEDTPVSALQYITTSMTIAPKGRELVVFFSLRVANMAFSNDLFNKSSLEYRA  
LEQQFTQLLVPYLRNLTGFKQLEILNFRNGSVIVNSKMKFAKSVPNLTKAVHGVLEDF  
RSAAAQQLHLEIDSYSLNIEPADQADPCKFLACGEFAQCVKNERTEEAECRCKPGYDSQG

SLDGLEPGLCGPGTKECEVLQKGKAPCRLPDHSENQAYKTSVKKFQNNKVISKRNSE  
LLTVEYEEFNHQDWEGN

>sp|O15225|INE1\_HUMAN Putative inactivation escape 1 protein OS=Homo sapiens GN=INE1 PE=5  
SV=5

MSGPLSPVCSCPQLPFMLSPCHMHHPGHVALSQTVPASLLTQGLGLPQH

>sp|Q27J81|INF2\_HUMAN Inverted formin-2 OS=Homo sapiens GN=INF2 PE=1 SV=2

MSVKEGAQRKWAALKEKLGPQSDPTEANLESADPELCIRLLQMPSVVNYSGLRKRLEGS  
DGGWMVQFLEQSGLDLLLEALARLSGRGVARISDALLQLTCVSCVRVMNSRQGIEYILS  
NQGYVRQLSQALDTSNMVMKKQVFELLAALCIYSPEGHVLTLDALDHYKTVCSQQYRFSI  
VMNELSGSDNPVYVVTLLSVINAVILGPEDLRARTQLRNEFIGLQLLDVLARLRDLEDAD  
LLIQLEAFEEAKAEDEEELLRVSGGDMSSHQEVFASLFHKVSCSPVSAQLLSVLQGLLH  
LEPTLRSSQLLWEALESLVNRAVLLASDAQECTLEEVRERLLSVKGRPRPSPLVKAHKS  
QANLDQSQRGSSPQNTTTPKPSVEGQQPAAAAACEPVDHAQSESILKVSQPRALEQQAST  
PPPPPPPLLPGSSAEPPPPPPPLPSVGAKALPTAPPPPLPGLGAMAPPAPPLPPPL  
PGSCEFLPPPPPLPGLGCPPPPPPLPGMGWGPPIPPPPPLPCTCSPPVAGGMEEVIVA  
QVDHGLGSAWVPSHRRVNPPTLRMKKLNWQKLPSNVAREHNSMWASLSSPDAAEVEPDFS  
SIERLFSFPAAKPKEPTMVAPRARKEPKEITFLDAKKSLLNIFLKQFKCSNEEVAAMIR  
AGDTTKFDVEVLKQLLKLPEKHEIENLRAFTEERAKLASADHFYLLLLAIPCYQLRIEC  
MLLCEGAAAVLDMVRPKAQLVLAACESLLTSRQLPIFCQLILRIGNFLNYGSHTGDADGF  
KISTLLKL TETKSQNRVTLLHHVLEEAESHPDLLQLPRDLEQPSQAAGINLEIIRSEA  
SSNLKKLLETERKVSASVAEVQEYTERLQASISAFRALDELFEAIEQKQRELADYLCED  
AQQLSLEDTFSTMKAFRDLFLRALKENKDRKEQAACAERRKQQLAEAEARRPRGEDGKPV  
RKGPGKQEEVCVIDALLADIRKGFQLRKTAGRGDTDGGSKAASMDPPRATEPVATSNPA  
GDPVGSTRCPASEPGLDATTASESRGWDLVDAVTPGPQPTLEQLEEGGPRPLERRSSWYV  
DASDVLTTEDPQCPQLEGAWPVTLGDAQALKPLKFSSNQPPAAGSSRQDAKDPTSLLGV  
LQAEADSTSEGLEDAVHSRGARPPAAGPGGDEDEDEEDTAPESALDTSLDKSFSEDAVTD  
SSGSGTLPRARGRASKGTGKRRKKRPSRSQEEVPPDSDDNKTKKLCVIQ

>sp|Q9NXR8|ING3\_HUMAN Inhibitor of growth protein 3 OS=Homo sapiens GN=ING3 PE=1 SV=2

MLYLEDYLEMIEQLPMDLRDRFTREMDLQVQNAHQLEQRVSEFFMNAKKNKPEWREE  
QMASIKKDYYKALEDADEKVQLANQIYDLVDRHLRKLQELAKFKMELEADNAGITEILE  
RRSLELDTPSQPVNNHHAHSHTPVEKRKYNPSTSHHTTTHIPEKKFKSEALLSTLSDAS  
KENTLGRNNNSTASSNNAYNVSSQPLGSYNIGSLSSGTGAGAITMAAAQAVQATAQMK  
EGRRTSSLKASYEAFKNNDQFLGKEFSMARETVGYSSSSALMTLTQNASSSAADSRSGR  
KSKNNKSSSQSSSSSSSSSSSSSSSTVVQEISQQTTVVPESDSNSQVDWYDNPNEP  
RYCICNQVSYGEMVGCNDQDCPIEFHYGCVGLTEAPKGKWCYCPQCTAAMKRRGSRHK

>sp|Q9NPH2|INO1\_HUMAN Inositol-3-phosphate synthase 1 OS=Homo sapiens GN=ISYNA1 PE=1 SV=1

MEAAAQFFVESPDVYVGPEAIEAQYEYRTTRVSREGGVLKVHPTSTRFTFRTARQVPRLG  
VMLVGWGGNGSTLTAAVLANRLRLSWPTRSGRKEANYYGSLTQAGTVSLGLDAEGQEVF  
VPFSAVLPMPVAPNDLVFDGWDISSNLAEAMRRAKVLDWGLQEQLWPHMEALRPRPSVYI  
PEFIAANQSARADNLIPGSRAQLEQIRRDIRDFRSSAGLDKVIWLWTANTERFCEVIPG  
LNDTAENLLRTIELGLEVSPSTLFAVASILEGCAFLNGSPQNTLVGALELAWQHRVFG  
GDDFKSGQTKVKSVLVDFLIGSGLKTMSIVSYNHLGNNDGENLSAPLQFRSKEVSKSNVV  
DDMVQSNPVLYTPGEEPDCVVIKYVPYVGDSKRALDEYTSMLGGTNTLVLHNTCEDS  
LLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLKAPLVPPGSPVVNALF

RQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVGPAATYPMLNKKGPVPAATNG  
CTGDANGHLQEEPPMPTT

>sp|P49441|INPP\_HUMAN Inositol polyphosphate 1-phosphatase OS=Homo sapiens GN=INPP1 PE=1  
SV=1

MSDILRELLCVSEKAANIARACRQQEALFQLLIEEKKEGEKNKKFAVDFKTLADVLVQEV  
IKQNMENKFPGLEKNIFGEESNEFTNDWGEKITLRLCSTEEETAELLSKVLNGNKVASEA  
LARVVHQDVAFTDPTLDSTEINVPQDILGIWVDPIDSTYQYIKGSADIKSNQGIFPCGLQ  
CVTILIGVYDIQTGVPLMGVINQPFVSRDPNTLRWKGQCYWGLSYMGTNMHSLQLTISR  
NGSEHTGNTGSEAAFSFSFAVISTSEKETIKAALSRVCGDRIFGAAGAGYKSLCVVQG  
LVDIYIFSEDITFKWDSAAHAILRAMGGGIVDLKECLERNPETGLDLPQLVYHVENEGA  
AGVDRWANKGGLIAYRSRKRLETFLSLLVQNLAPAETHT

>sp|Q96T92|INSM2\_HUMAN Insulinoma-associated protein 2 OS=Homo sapiens GN=INSM2 PE=1 SV=3

MPRGFLVKRTKRTGGLYRVRLAERVFPLLPQGAPPFLEEAPSASLPGAERATPPTREEP  
GKGLTAEAAAREQSGSPCRAAGVSPGTGGREGAEWRAGGREGPGPSPSPSPAKPAGAE  
RRAFLERCLSSPVAESFPGGAAVAFAFSCSVAPAAAPTGEQFLPLRAPFPEPALQPD  
PAPLSAALQSLKRAAGGERRGKAPTDGASGPAAAGIKKPKAMRKLFADEVTTSPVLGLK  
IKEEPPGAPSRGLGGSRTPLGEFICQLCKEQYADPFALAHRCRIVRVEYRCPECDKVF  
SCPANLASHRRWHKPRPAAANAATVSSADGKPPSSSSSSSRDSGAIASFLAEGKENSRIE  
RTADQHPQARDSSGADQHPDSAPRQGLQVLTHPEPPLPQGPYTEGLGRRVPVPGSTSGG  
RGSEIFVCPYCHKKFRQAYLRKHLSTHEAGSARALAPGFGSERGAPLAFACPLCGAHFP  
TADIREKHRLWHAVREELLPLALAGAPPETSGPSGSDGSAQQIFSCKHCPSTFFSSPGL  
TRHINKCHPSESQVLLQMPLRPGC

>sp|F8WCM5|INSR2\_HUMAN Insulin, isoform 2 OS=Homo sapiens GN=INS-IGF2 PE=2 SV=1

MALWMRLPLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAED  
LQASALSLSSSTSTWPEGLDARAPPALVVTANIGQAGGSSSRQFRQALGTSDSPVLF  
IHCPGAAGTAQGLEIRGRRVTTELWEEVDSSPQPQGESLPAQPPAQPAQPEPQQARE  
PSPEVSCCGLWPRRPQRSQN

>sp|Q96CB8|INT12\_HUMAN Integrator complex subunit 12 OS=Homo sapiens GN=INTS12 PE=1 SV=1

MAATVNLELDPIFLKALGFLHSSKSDAEKALKLLDESLARGIDSSYRPSQKDVEPPKIS  
STKNISIKQEPKISSSLPSGNNNGKVLTTEKVKKEAEKRPADKMKSDITEGVDIPKKPRL  
EKPETQSSPITVQSSKDLPADLSSFEETSADDFAMEMGLACVVCQMMVASGNQLVECQ  
ECHNLYHRDCHKPQVTDKEANDPRLVWYCARCTRQMKRMAQKTQKPPQKPAPAVVSVTPA  
VKDPLVKKPETKLKQETTFLAFKRTEVKTSTVISGNSSASVSSSVTSGLTGWAFAAKT  
SSAGPSTAKLSSTTQNTGKPATSSANQKPVGLTGLATSSKGGIGSKIGSNNSTTPTVPL  
KPPPLTLGKTGLSRVSCDNVSKVGLPSPSSLVPGSSSQLSGNGSGTSGPSGSTTSKT  
TSESSSSPSASLKGPTSQESQLNAMKRLQMVKKKAAQKKLKK

>sp|Q6P9B9|INT5\_HUMAN Integrator complex subunit 5 OS=Homo sapiens GN=INTS5 PE=1 SV=1

MSALCDPPGAPGPPGAPATHGPAPLSAQELSQEIKAFLTGVDPILGHQLSAREHARCGL  
LLLRSLPPARAAVLHDLRGVFDESVRHLAALDETPVAGPPHLRPPPPSHVPAGGPGLD  
VVQEVQQVLSEFIRANPKAWAPVISAWSIDLMGQLSSTYSQGHQRPVPHATGALNELLQLW  
MGCRATRTLMDIYVQCLSALIGSCPDACVDALLDTSVQHSPHFDWVVAHIGSSFPGTIIS  
RVLSCGLKDFCVHGGAGGGAGSSGSSSQTPSTDPPFGSPAIPAERVPKIASVVGILGH  
LASRHGDSIRRELLRMFHDLAGGSGGRSGDPSLQATVPFLLQLAVMSPALLGTVSGELV  
DCLKPPAVLSQLQQHLQGFPREELDNMLNLAVHLVSQASGAGAYRLLQFLVDTAMPASVI

TTQGLAVPDTVREACDRLIQLLLLHLQKLVHHRGGSPGEGVLGPPPPPRLLVPFLDALKNH  
VGELCGETLRLERKRFLWQHQLGLLSVYTRPSCGPEALGHLLSRARSPEELSLATQLYA  
GLVVSLSGLLPLAFRSCALARVHAGTLQPPFTARFLRNLALLVGWEQQGGEGPAALGAHFG  
ESASAHLSDLAPLLHPEEEVAEAAAALLAICFPFSEALSPSLLGLVRAGVHRFFASLR  
LHGPPGVASACQLLTRLSQTSPAGLKAVLQLLVEGALHRGNTELFGGQVDGNETLSVVS  
ASLASASLLDTNRRHTAAVPGPGGIWSVFHAGVIGRGLKPPKFVQSRNQQEVIYNTQSLL  
SLLVHCCSAPGGTECGECWGAPILSPEAAKAVAVTLVESVCPDAAGAELAWPPEEHARAT  
VERDLRIGRRFREQLLFELLKLVAAAPPALCYCSVLLRGLLAALLGHWEASRHPDTTHS  
PWHLEASCTLVAVMAEGSLLPPLALGNMHEVFSQLAPFEVRLLLSVWGFLREHGPLPQKF  
IFQSERGRFIRDFSREGGEGGPHLAVLHSLVLRNIDRLGLFSGRFQAPSPSTLLRQGT

>sp|Q9UL03|INT6\_HUMAN Integrator complex subunit 6 OS=Homo sapiens GN=INTS6 PE=1 SV=1

MPILLFLIDTSASMNQRSHLGTTYLDTAKGAVETFMKLRRDPASRGDRYMLVTFEPPY  
AIKAGWKENHATFMNELKNLQAEGLTTLGQSLRTAFDNLNRLVTGIDNYGQGRNPFFL  
EPAIIITITDGSKLTTTSGVQDELHLPLNSPLPGSELTKPFWRDQRLFALVLRPLGTMS  
VESEQLTGVPDDSAITPMCEVTGGRSYSVCSRMLNQCLESVQKVQSGVVINFEKAGP  
DPSPVEDGQPDISRPFSGPWHSCHKLIYVRPNPKTGVPIGHWPVPESFWPDQNSPTLPP  
RTSHPVVKFSCDCEPMVIDKLPFDKYELEPSPLTQFILERKSPQTCWQVYVSNSAKYSE  
LGHPFGYLKASTALNCVNLVMPYNYPVLLPLDDLFKVHKAKPTLKWRQSFESYLKTMP  
PYYLGPLKKAVRMMGAPNLIADSMEYGLSYSVISYLKKLSQQAKIESDRVIGSVGKKVVQ  
ETGIKVRSRSHGLSMAYRKDFQQLLQGISEDVPHRLDLNMKEYTGQVALLNKDLKPQT  
FRNAYDIPRRNLDHLTRMRSNLLKSTRRFLKGQDEDQVHSVPIAQMGNYQEYLKQVPSP  
LRELPDQPRRLHTFGNPFKLDKKGMMIDEAEFVAGPQNKHKRPGEPMNQGIKRRRCM  
SPLLRRGRQQNPVVNNHIGGKGPAPTQAQPDLIKPLPLHKISETTNDISIHDVVENHVA  
DQLSSDITPNAMDTEFSASSPASLLERPTNHMEALGHDHLGTNDLTVGGFLENHEEPRDK  
EQCAEENIPASSLNKGKKLMHCRSHEEVNTELKAQIMKEIRKPGRKYERIFTLLKHVQGS  
LQTRLIFLQNVIKEASRFKKRMLIEQLENFLDEIHRANQINHINSN

>sp|P55073|IOD3\_HUMAN Thyroxine 5-deiodinase OS=Homo sapiens GN=DIO3 PE=1 SV=4

MPRQATSRLVVGEGEGSQGASGPAATMLRSLLLHSLRLCAQTASCLVLFPRFLGTAFMLW  
LLDFLCIRKHFLGRRRRGQPEPEVELNSEGEEVPPDDPPICVSDDNRLCTLASLKAVWHG  
QKLDFFKQAHEGGPAPNSEVVLDPGFQSQHILDYAQGNRPLVLNFGSCTUPPFMARMSAF  
QRLVTKYQRDVFLLIYIEEAHPSDGWVTTDSPYIIPQHRSLDRVSAARVLQQGAPGCA  
LVLDTMANSSSSAYGAYFERLYVIQSGTIMYQGGRGPDGYQVSELRTWLERYDEQLHGAR  
PRRV

>sp|O14990|IPP4\_HUMAN Putative type-1 protein phosphatase inhibitor 4 OS=Homo sapiens  
GN=PPP1R2P9 PE=1 SV=1

MSASTSSHRPIKGILKNKSSSGSSVATSGQQSGGTIQDVKRKKSQKWDESSILAHRATY  
RDYDLMKANEPGTSYMSVQDNGEDSVRDVEGEDSVRGVEGKEATDASDHSCEVDEQESSE  
AYMRKILLHKQEKKRQFEMRRRLHYNEELNIKLARQLMWKELQSEDNENEETPQGTNEEK  
TAAESEEAPLTGGLQTQSCDP

>sp|P05154|IPSP\_HUMAN Plasma serine protease inhibitor OS=Homo sapiens GN=SERPINA5 PE=1  
SV=3

MQFLLLCLVLLSPQGASLHRHHPREMKKRVEDLHVGAIVAPSSRRDFTFDLYRALASAA  
PSQSIFFSVPVISMSLAMLGLGAGSSTKMQILEGLGLNLQKSSEKELHRGFQQLLQELNQ  
PRDGFQLSLGNALFTDLVVDLQDTFVSAMKTLYLADTFPTNFRDSAGAMKQINDYVAKQT



KGKIVDLLKNLDSNAVIMVNYIFFKAKWETSFNHKGTQEQDFYVTSETVVRVPMMSRED  
QYHYLLDRNLSCRVVGPYQGNATALFILPSEGKMQQVENGLSEKTLRKWLKMFKKRQLE  
LYLPKFSIEGSYQLEKVLPSLGISNVFTSHADLSGISNHSNIQVSEMVHKAVVEVDESGT  
RAAAATGTIFTFRSARLNSQRLVFNRPFLMFIVDNNILFLGKVNRP

>sp|Q1W4C9|ISK13\_HUMAN Serine protease inhibitor Kazal-type 13 OS=Homo sapiens GN=SPINK13  
PE=3 SV=1

MAAFPHKIIFFLVCSTLTHVAFSGIFNKRDFTRWPKPRCKMYIPLDPDYNADCPNVTAPV  
CASNGHTFQNECFQVEQREFHYRIKFEKYGKCD

>sp|Q5DT21|ISK9\_HUMAN Serine protease inhibitor Kazal-type 9 OS=Homo sapiens GN=SPINK9  
PE=1 SV=1

MRATAIVLLLALTLATMFSEIECAKQTKQMVDSCSHYKKLPPGQQRFCHHMYDPICGSDGKT  
YKNDCCFFCSKVKKTDGTLKFVHFGKC

>sp|B1AKI9|ISM1\_HUMAN Isthmin-1 OS=Homo sapiens GN=ISM1 PE=2 SV=2

MVRLAAELLLLLLGLLLTLHITVLRGSGAADGPDAAGNASQAQLQNNLVGSDTTSETS  
FSLSKEAPREHLHQAAHQPFPRFRQETGHPSLQRDFPRSFLDLNFPDLKADING  
QNPNIQVTIEVVDGPDSEADKDQHPENKPSWSVPSPDWRAWWQRSLSLARANSQDQDYKY  
DSTSDSNFLNPPRGWDHTAPGHRTFETKDQPEYDSTDGEGDWSLWSVCSVTGNGNQKR  
TRSCGYACTATESRTCDRPNCPGIEDTFRTAATEVSLLAGSEEFNATKLFVDTDSCEW  
MSCKSEFLKKYMHKVMNDLPSCPCSYPTVAYSTADIFDRIKRKDFRWKASGPKEKLEI  
YKPTARYCIRSMLSLESTTLAAQHCCYGDNMQLITRGKAGTPNLISTEFSDELHYKVDV  
LPWIIICKGDWSRYNEARPPNNGQKCTESPSDEDIYKQFQEAREY

>sp|Q9ULR0|ISY1\_HUMAN Pre-mRNA-splicing factor ISY1 homolog OS=Homo sapiens GN=ISY1 PE=1  
SV=3

MARNAEKAMTALARFRQAQLEEGKVKERRPFLASECTELPKAEKWRRQIIGEISKKVAQI  
QNAGLGEFRIDLNDEINKLLREKGHWVRIKELGGPDYGVKVGPKMLDHEGKEVPGNRY  
KYFGAAKDLPGVRELFEKEPLPPPRKTRAEMLKAIDFEYGYLDEDDGVIVPLEQEYEKK  
LRAELVEKWAEREARELARGEKEEEEEEEINIYAVTEESDEEGSQEKGGDSQQKFI  
AHVPVPSQQEIEEALVRRKKMELLQKYASETLQAQSEEARLLGY

>sp|O75578|ITA10\_HUMAN Integrin alpha-10 OS=Homo sapiens GN=ITGA10 PE=2 SV=2

MELPFVTHLFLPLVFLTGLCSPFNLDHHPRLFPGPPEAEFGYSVLQHVGGGQRWMLVGA  
PWDGPGSDRRGDVYRCVPGAHNAPCAKHLGDYQLGNSSHPAVNMHLGMSLLETGDG  
FMACAPLWSRACSSVFSSGICARVDASFQPGSLAPTAQRCPTYMDVVIVLDGSNSIYP  
WSEVQTFLLRRLVGKLFIDPEQIQVGLVQYGESPVHEWSLGDFTKEEVVRAAKNLSRREG  
RETKTAQAIMVACTEGFSQSHGGRPEARLLVVVTDGESHDGEELPAALKACEAGRVTRY  
GIAVLGHYLRQRDPSSFLREIRTIASDPDERFFFNVTDEAALTDIVDALGDRIFGLEGS  
HAENESSFGLEMSQIGFSTHRLKDGILFGMVGAYDWGGSVLWLEGGHRLFPPRMALEDEF  
PPALQNHAAAYLGYSVSSMLLRGGRRLFLSGAPRFRHRGKVI AFQLKKDGA VRVAQSLQGE  
QIGSYFGSELCPDITDRDGTDLVLLVAAPMFLGPQNKETGRVYVYLVGQQSLLTLQGT  
PEPPQDARFGFAMGALPDNLQDGFADVAVGAPLEDGHQGALYLYHGTQSGVRPHPAQRIA  
AASMPHALSYFGRSDGRLDLGDGDLVDVAVGAQGAAILSSRPVHLTPSLEVTPQAIS  
VVQRDCRRRGQEA VCLTAALCFQVTSRTPGRWDHQFYMRFTASLDEWTAGARAAFDGSGQ  
RLSPRRLRLSVGNVTCEQLHFHVLDTSDYLRPVALTVTFALDNTTKPGPVLNEGSPTSIQ  
KLVPFSKDCGPDNECVTDLVLQVNMDIRGSRKAPFVVRGGRRKVLVSTLTLENRKENAYNT  
SLSLIFSRNLHLASLTPQRESPIKVECAAPSAHARLCSVGHPVFQTGAKVTFLLEFEFSC

SSLLSQVFVKLTASSDSLERNGLTQDNTAQTSAYIQYEPHLLFSSESTLHRYEVHPYGTL  
PVGPGPEFKTTLRVQNLGCYVVSGLIIISALLPAVAHGGNYFLSLSQVITNNASCIVQNL  
EPPGPPVHPEELQHTNRLNGSNTQCQVVRCHLGGQAKGTEVSVGLLRVHNEFFRRAKFK  
SLTVVSTFELGTEEGSVLQLTEASRWSESLLEVQTRPILISLWILIGSVLGGLLLLALL  
VFCLWKLGFFAHKKIPEEEKREEKLEQ

>sp|P56199|ITA1\_HUMAN Integrin alpha-1 OS=Homo sapiens GN=ITGA1 PE=1 SV=2

MAPRPRARPGVAVACCWLLTVVLRCCVSFNVDVKNSMTFSGPVEDMFGYTVQQYENEEGK  
WVLIGSPLVGQPKNRTGDVYKCPVGRGESLPCVKLDLPVNTSIPNVTEVKENMTFGSTLV  
TNPNGGFLACGPLYAYRCGHLHYTTGICSDVSPTFQVVNSIAPVQECSTQLDIVIVLDGS  
NSIYPWDSVTAFLNDLLERMDIGPKQTQVGIVQYGENVTHEFNLNKYSSTEEVLVAAKKI  
VQRGGRQTMALGIDTARKEAFTEARGARRGVKKVMVIVTDGESHDNHLKKVIQDCED  
NIQRFSAIILGSYNRGNLSTEKFVEEIKSIASEPTEKHFFNVSDALVTIVKTLGERIF  
ALEATADQSAASFEMEMSQTGFSAHYSQDWVMLGAVGAYDWNGTVVMQKASQIIIPRNTT  
FNVESTKKNPLASYLGYTVNSATASSGDVLYIAGQPRYNHTGQVIIYRMEDGNIKILQT  
LSGEQIGSYFGSILTTDIDKDSNTDILLVGAPMYMGTEKEEQGKVYVYALNQTRFEYQM  
SLEPIKQTCSSRQHNSCTTENKNEPCGARFGTAIAAVKDLNLDGFNDIVIGAPLEDDHG  
GAVYIYHGSGKTIRKEYAQRIPSGGDGKTLKFFGQSIHGEMDLNGDGLTDVTIGGLGGAA  
LFWSRDVAVVKVTMNFEPNKVNIQKKNCHMEGKETVCINATVCFDVKLKSKEDTIYEADL  
QYRVTLDSLRLQISRSFFSGTQERKVQRNITVRKSECTKHSFYMLDKHDFQDSVRITLDFN  
LTDPENGPVLDLSPNSVHEYIPFAKDCGNKEKCIDLSLHVATTEKDLLIVRSQNDKFN  
VSLTVKNTKDSAYNTRTIVHYSPLVFGIEAIQKDSCESENHNTCKVGYPFLRRGEMVT  
FKILFQNTSYLMENVTIYLSATSDSEPPETLSDNVVNISIPVKYEVGLQFYSSASEYH  
ISIAANETVPEVINSTEDIGNEINIFYLIRKSGSFPMPELKLISFPNMTSNGYPVLYPT  
GLSSSENANCRPHIFEDPFSINSGKKMTTSTDHLKRGITLDCNTCKFATITCNLTSSDIS  
QVNVSLILWKPTFIKSYFSSLNLTIRGELRSENASLVSSSNQKRELAIQISKDGLPGRV  
PLWVILLSAFAGLLLLMLLILALWKIGFFKRPLKKKMEK

>sp|P08514|ITA2B\_HUMAN Integrin alpha-IIb OS=Homo sapiens GN=ITGA2B PE=1 SV=3

MARALCPLQALWLEWVLLLLGPCAAPAWALNDPVQLTFYAGPNGSQFGFSLDFHKDS  
HGRVAIVVGAPRTLGPSQEETGGVFLCPWRAEGGQCPSLLFDLRDETRNVGSQTLQTFKA  
RQGLGASVVSWSDVIVACAPWQHWNVLEKTEEAETKTPVGCFLAQPESGRRAEYSPCRGN  
TLRIYVENDFSWDKRYCEAGFSSVVTQAGELVLGAPGGYYFLGLLAQAPVADIFSSYRP  
GILLWHVSSQSLSFSSNPEYFDGYWGYSAVGEFDGDLNTEYVVGAPTWSWTLGAVEI  
LDSYYQRLHRLRGEQMASYFGHSVAVTDVNGDGRHDLLVGAPLYMESRADRKLAEVGRVY  
LFLQPRGPHALGAPSLLLTGTQLYGRFGSAIAPLGDLDLDGYNDAIAAAPYGGPSGRGQV  
LVFLGQSEGLRSRPSQVLDSPFPTGSAGFSLRGAVDIDDNGYPDLIVGAYGANQVAVYR  
AQPVVKASVQLLVQDSLNPVAVKSCVLPQTKTPVSCFNIQMCVGATGHNIPQKLSLNAELQ  
LDRQKPRQGRRVLLLSGQQAGTTLNLDLGGKHSPICHTTMAFLRDEADFRDKLSPIVLSL  
NVSLPTEAGMAPAVVLHGDTHVQEQTTRIVLDCGEDDVCVPQLQLTASVTGSPLLVGADN  
VLELQMDAANELEGAYEAEALAVHLPQGAHYMRALSNEVEFERLICNQQKENETRVVLC  
GNPMKKNAQIGIAMLVSVGNLEEAGESVSFQLQIRSKNSQNPNSKIVLLDVPVRAEAQVE  
LRGNSFPASLVAAEEGEREQNSLDSWGPKEHTYELHNGPGTVNGLHLSIHLPGQSQP  
SDLLYILDIQPQGLQCFPPQPPVPLKVDWGLPIPSPSPIHPAHHKRDRRQIFLPEPEQP  
SRLQDPVLVSCDSAPCTVVQCDLQEMARGQRAMVTVLAFLWLPSTLYQRPLDQFVLQSHAW  
FNVSSLPYAVPPLSLPRGEAQVWTQLLRALEREAPIWVVLVGVLGGLLLLITILVAMWK

VGFFKRNRPPEEDDEEGE

>sp|P13612|ITA4\_HUMAN Integrin alpha-4 OS=Homo sapiens GN=ITGA4 PE=1 SV=3

MAWEARREPGPRRAAVRETVMLLCLGVPTGRPYNVDTESALLYQGPHNTLFGYSVVLHS  
HGANRWLLVGAPTANWLANASVINPGAIYRCRIGKNPGQTCEQLQLGSPNGEPCGKTCLE  
ERDNQWLGVTLRQPGENGSIIVTCGHRWKNIFYIKNENKLPTGGCYGVPPDLRTELSKRI  
APCYQDYVKKFGENFASCQAGISSFYTKDLIVMGAPGSSYWTGSLFVYNITTNKYKAFLD  
KQNQVKFGSYLGYSVGAGHFRSQHTTEVVGAPQHEQIGKAYIFSIDEKELNILEMHKMGK  
KLGSYFGASVCAVDLNADGFSDLLVGAPMQSTIREEGRVFVYINSGSGAVMAMETNLVG  
SDKYAAARFGESIVNLGDIDNDGFEDVAIGAPQEDDLQGAIIYNGRADGISSTFSQRIEG  
LQISKSLSMFGQSISGQIDADNNGYVDVAVGAFRSDSAVLLRTRPVVIVDASLSHPESVN  
RTKFDCEVNGWPSVCIDLTLCSYKGEVPGYIVLFYNMSLDVNRKAESPPRFYFSSNGT  
SDVITGSIQVSSREANCRTHQAFMRKDVRLITPIQIEAAYHLGPHVISKRSTEEFPPLQ  
PILQQKKEKDIMKKTINFARFCAHENC SADLQVSAKIGFLKPHENKTYLAVGSMKTLMLN  
VSLFNAGDDAYETTLHVKLPGVLYFIKILEEEKQINCEVTDNSGVVQLDCSIGYIYVDH  
LSRIDISFLLDVSSLSRAEEDLSITVHATCENEEEMDNLKHSRVTAIPLKYEVKLTVHG  
FVNPTSFVYGSNDENEPETCMVEKMNLTFHVINTGNSMAPNVSEIMVPNSFSPQTDKLF  
NILDVQTTTGECHFENYQRVCALEQQKSAMQTLKGIVRFLSKTDKRLLYCIKADPHCLNF  
LCNFGKMESGKEASVHIQLEGRPSILEMDETSALKFEIRATGFPEPNPRVIELNKDENVA  
HVLLEGLHHQRPKRYFTIVIISSSLLGLIVLLISYVMWKAGFFKRQYKSILQEENRRD  
SWSYINSKSNDD

>sp|O15503|INSI1\_HUMAN Insulin-induced gene 1 protein OS=Homo sapiens GN=INSIG1 PE=1 SV=3

MPRLHDHFWSCSCAHSARRRGPPRASAAGLAAGVGINVSVSGPSLLAAHGAPDADPAP  
RGRSAAMSGPEPGSPYPNTWHHRLLRSLVLFVSGVVLALVLNLLQIQRNVTLPFEEVIA  
TIFSSAWVPPCCGTAAAVVGLLYPCIDSHLGEPHKFKREWASVMRCIAVFVGINHASAK  
LDFANNVQLSLTLAALSGLWWTFRSRSGLGLGITIAFLATLITQFLVYNGVYQYTPD  
FLYIRSWLPCIFFSGGVTVGNIGRQLAMGVPEKPHSD

>sp|Q9Y5U4|INSI2\_HUMAN Insulin-induced gene 2 protein OS=Homo sapiens GN=INSIG2 PE=1 SV=2

MAEGETESPGPKKCPYISSVTSQSVNLMIRGVVLFFIGVFLALVLNLLQIQRNVTLPFP  
DVIAIFSSAWVPPCCGTASAVIGLLYPCIDRHLGEPHKFKREWSSVMRCVAVFVGINH  
ASAKVDFDNNIQLSLTLAALSIGLWWTFRSRSGLGLGVGIAFLATVVTQLLVYNGVYQY  
TSPDFLYVRSWLPCIFFAGGITMGNIGRQLAMYECKVIAEKSHQE

>sp|P51460|INSL3\_HUMAN Insulin-like 3 OS=Homo sapiens GN=INSL3 PE=1 SV=2

MDPRLPAWALVLLGPALVFALGPAPTPEMREKLCGHHFVRALVRVCGGPRWSTEARRPAT  
GGDRELLQWLERRHLLHGLVADSNTLGPGLQPLPQTSHHHRHHRAAATNPARYCCLSGC  
TQQDLLTLCPY

>sp|Q14641|INSL4\_HUMAN Early placenta insulin-like peptide OS=Homo sapiens GN=INSL4 PE=1 SV=1

MASLFRSYLPAIWLLSQLLRESLAAELRGCGPRFGKHLLSYCPMPEKTFTTTPGGWLL  
SGRPKEMVSTSNKDGQALGTTSEFIPNLSPELKKPLSEGQPSLKKIILSRKKRSGRHRF  
DPFCCEVICDDGTSVKLT

>sp|Q9Y581|INSL6\_HUMAN Insulin-like peptide INSL6 OS=Homo sapiens GN=INSL6 PE=2 SV=2

MPRLRLSLLWLGLLLVRFSSRELSDISSARKLCGRYLVKEIEKLCGHANWSQFRFEEETP  
FSRLIAQASEKVEAYSPYQFESPTASPARGGTNPVSTSWEEAVNSWEMQSLPEYKDKK  
GYSPLGKTREFFSSHNINVYIHENAKFQKKRRNKIKTSLNLFWGHHPQRKRRGYSEKCCL

TGCTKEELSIACLPYIDFKRLKEKRSSLVTKIY

>sp|Q9NVR2|INT10\_HUMAN Integrator complex subunit 10 OS=Homo sapiens GN=INTS10 PE=1 SV=2

MSAQGDCEFLVQRARELVPQDLWAAKAWLITARSLYPADFNIIQYEMYTIERNAERTATAG  
RLLYDMFVNFPDQPVVWREISIIITSALRNDSDQDKQTQFLRSLFETLPGRVQCEMLLKVTE  
QCFNTLERSEMLLLLRRFPETVVQHGVGLGEALLEAETIEEQESPVNCFRKLFVCDVLP  
LIINNHDVRLPANLLYKYLNKAAEFYINYVTRSTQIENQHQAQDTSDLMSPSKRSSQKY  
IIEGLTEKSSQIVDPWERLFKILNVVGMRCWQMDKGRRSYGDILHRMKDLCRYMNNFDS  
EAHAKYKNQVVYSTMLVFFKNAFQYVNSIQPSLFQGPNAQSQVPLVLEDVSNVYGDVEI  
DRNKHIIHKRKLAEGREKTMSDDDCSAKGRNRHIVNKAELANSTEVLESFKLARESW  
ELLYSLEFLDKEFTRICLAWKTDTWLWLRIFLTDMIYQGQYKKAIASLHHLAALQGSIS  
QPQITGGTLEHQRALIQATCHFALGEYRMTCEKVLDLMCYMVLPIQDGGKSQEEPSKV  
KPKFRKGSCLKLPCTSKAIMPYCLHMLACFKLRAFTDNRDDMALGHVIVLLQQEWPRG  
ENLFLKAVNKICQQGNFYENFFNYVTNIDMLEEFAYLRTQEGGKIHLELLPNQGMILKH  
HTVTRGITKGKEDFRLAMERQVSRGENLMVVLHRFCINEKILLQTLT

>sp|Q5JSJ4|INT6L\_HUMAN Integrator complex subunit 6-like OS=Homo sapiens GN=INTS6L PE=1 SV=1

MPILLFLIDTSASMNQRTDLGTSYLDIAKGAVELFLKLRRDPASRGDRYMLVTYDEPPY  
CIKAGWKENHATFMSSELKNLQASGLTTLGQALRSSFDLLNLNRLISGIDNYGQGRNPFFL  
EPSILITITDGNKLTSTAGVQEELHLPLNSPLPGSELKEPFRWDQRLFALVLRPGVAS  
TEPEQLGSVPTDESAITQMCEVTGGRSYCVRTQRMNLQCLESVQKVQSGVVINFEKTGP  
DPLPIGEDGLMDSRPSNSFAAQPWHSCHKLIYVRPNSKTGVPVGHWP IPESFWPDQNL  
SLPRTSHPVVRFSCVDCEPMVIDKL PFDKYELEPSPLTQYILERKSPHTCWQVFTSSG  
KYNELGYFPGYLKASTTLTCVNLVMPYNYPVLLPLDDLKFKVHKLKPNLKWRQAFDSYL  
KTLPPYYLLTKLESERILASVGKPPQEIGIKVKNHSGGMSLTHNKNFRKLLKEITGET  
ALRLTELNTKEFAGFQIGLLNKDLKPQTYRNAYDIPRRGLLDQLTRMRSNLLKTHKFIVG  
QDEDSLHSVPVAMQMGNYQEYLKTASPLREIDPDQPKRLHTFGNPFQDKKGMIDEADE  
FVAGPQNKVKRPGEPNSPMSSKRRRSMSLLL RKPQTPTVTNHVGGKPPSASWFPSYPN  
LIKPTLVHTDATI IHDGHEEKMENQITPDGFLSKSAPSELINMTGDLMPPNQVDSLSD  
FTSLSKDGLIQKPGSNAFVGGAKNCSLSVDDQKDPVASTLGAMPNTLQITPAMAQGINAD  
IKHQLMKEVRKFGRKYERIFILLEEVQGPLEMKKQFVEFTIKEAARFKRRVLIQYLEKVL  
EKINSHHLHNINSHINSRSSC

>sp|Q75QN2|INT8\_HUMAN Integrator complex subunit 8 OS=Homo sapiens GN=INTS8 PE=1 SV=1

MSAEAADREAATSSRPCTPPQTCWFEFLLEESLLEKHLRKPCDPAPVQLIVQFLEQASK  
PSVNEQNQVQPPDNKRNRILKLLALKVAHLKWDLDILEKSLSVPVLNMLLNELLCISK  
VPPGTHKVDMDLATLPPTTAMAVLLYNRWAI RTIVQSSFPVKQAKPGPPQLSVMNQMQQE  
KELTENILKVLKEQAADSILVLEAALKLNKDLYVHTMRTDLLAMEPGMVNGETESSTAG  
LKVKTEEMQCQVCYDLGAAYFQQGSTNSAVYENAREKFFRTKELIAEIGSLSHCTIDEK  
RLAGYCQACDVLVPSSDSTSQQLTPYSQVHICLRSGNYQEVIIQIFIEDNLTLSPVQFRQ  
SVLRELFKKAQQGNEALDEICFKVCACNTVRDILEGRTISVQFNQLFLRPNKEIDFLE  
VCSRSVNLEKASESLKGNMAAFLKNVCLGLEDLQYVFMISSEHFIITLLKDEERKLLVDQ  
MRKRSRPNLCIKPVTSFYDIPASASVNIGQLEHQLILSVPWRIRQILIELHGMTSERQ  
FWTVSNKWEVPSVYSGVILGIKDNLTRDLVYILMAKGLHCSTVKDFSHAKQLFAACLELV  
TEFSPKLRQVMLNEMLLLDIHTHEAGTGQAGERPPSDLSRVRGYLEMRLPDIPLRQVIA  
EECVAFMLNWRENEYLTQVPAFLLQSNPYVKLGQLLAATCKELPGPKESRRTAKDLWEV

VVQICSVSSQHKRGNDGRVSLIKQRESTLGIMYRSELLSFIKKLREPLVLTIIILSLFVKL  
HNVREDIVNDITAEHISIWPSSIPNLQSVDFEAVAITVKELVRYTLSINPNNHSLWIIQA  
DIYFATNQYSAALHYYLQAGAVCSDFFNKAVPPDVYTDQVIKRMIKCCSLLNCHTQVAIL  
CQFLREIDYKTAFKSLQEQNSHDAMDSYYDYIWDVTILEYLYLHHKRGETDKRQIAIKA  
IGQTELNASNPPEEVLQLAAQRRKKKFLQAMAKLYF

>sp|Q92551|IP6K1\_HUMAN Inositol hexakisphosphate kinase 1 OS=Homo sapiens GN=IP6K1 PE=1  
SV=3

MCVCQTMVEVGQYGNASRAGDRGVLEPFIHQVGGHSSMMRYDDHTVCKPLISREQRFYE  
SLPPEMKEFTPEYKGVVSVCFEGSDGYINLVAYPYVESETVEQDDTTEREQPRRHSRR  
SLHRSGSGSDHKEEKASLSLETSESSQEAQSPKVELHSHSEVPFQMLDGNSGLSSEKISH  
NPWSLRCHKQQLSRMRSESKDRKLYKFLLENNVHHFKYPCVLDLKMGTQHGDDASAEK  
AARQMRKCEQSTSATLGVRVCGMQVYQLDTGHYLCRNKYYGRGLSIEGFRNALYQYLHNG  
LDLRRDLFEPILSKLRGLKAVLERQASYRFYSSSLVIYDGKECRAESCLDRRSEMRLKH  
LDMVLPEVASSCGPSTSPSNTSPEAGPSSQPKVDVRMIDFAHSTFKGFRDDPTVHDGPDR  
GYVFGLENLISIMEQMRDENQ

>sp|Q6GPH6|IPIL1\_HUMAN Inositol 1,4,5-trisphosphate receptor-interacting protein-like 1  
OS=Homo sapiens GN=ITPRIPL1 PE=1 SV=1

MNVDAEASMAVISLLFLAVMYVHHPLMVSDRMDLDTLARSQLEKRMSEEMRLLMEFE  
ERKRAAEQRQKAENFWTGDTSDDLVLGKKDMGWPFQADGQEGPLGWMLGNLWNTGLFCL  
FLVFELLRQNMQHEPAFDSSEEEEEEEVRVVPVTSYNWLTDFPSQEALDSFYKHYVQNAI  
RDLPTCEFVESFVDDLIEACRVLSRQEAHPQLEDCLGIGAAFEKWGTLHETQKFDILVP  
IVPPQGTMFVLEMRDPALGRRCGCVLVESECVCKREKLLGDVLCVHHHRDPSAVLGKCS  
SSIKAALCTGFHLDVCKTVQWFRNMMGNAWALVAHKYDFKLSLPPSTTSCKLRLDYRSGR  
FLSIHLVLGVQREDTLVYLVSQAPDQEQLTSVDWPESFVACEHLFLKLVGRFAPENTCHL  
KCLQIILSLRQHQSPLPHGASRPILTSYHFKTALMHLRLPLTDWAHNMLSQRLQDILWF  
LGRGLQQRSLHHFLIGNFLPLTIPIKTFRNAEPVNLFQHLVLNPKAHSQAVEEFQNL  
TQVKTLPHAPLAAAP

>sp|095373|IPO7\_HUMAN Importin-7 OS=Homo sapiens GN=IPO7 PE=1 SV=1

MDPNTIIIEALRGTMDPALREAAERQLNEAHKSLNFBSTLLQITMSEQLDLPVRQAGVIYL  
KNMITQYWPDRRETAPGDISPYTIPEEDRHCIRENIVEAIIHSPELIRVQLTTCIHIIKH  
DYPSTWTAIVDKIGFYQLSDNSACWLGILLCLYQLVKNYEYKKPEERSPLVAMQHFLPV  
LKDRFIQLLSDQSDQSVLIQKQIFKIFYALVQYTLPLELINQQNLTEWIEILKTVVNRDV  
PNETLQVEEDDRPELPWWKCKKVALHILARLFERYGSPGNVSKEYNEFAEVFLKAFVGV  
QQVLLKVLYQYKEKQYMAPRVLQQTLNINQGVSHALTWKNLKPHIQGIQDVIFPLMCY  
TDADEELWQEDPYEYIRMKFDVFEDFISPTTAAQTLLFTACSKRKEVLQKTMGFCYQILT  
EPNADPRKKDGALHMGSLAEILLKKKIYKQMEYMLQNHVFPLFSSELGYMRARACWVL  
HYFCEVKFKSDQNLQTALELTRRCLIDREMPVKVEAAIALQVLISNQEKAKEYITPFIR  
PVMQALLHIIRETENDDLTNVIQKMICYSEEVTPIAVEMTQHLAMTFNQVIQTGPDEEG  
SDDKAVTAMGILNTIDTLLSVVEDHKEITQQLEGICLQVIGTVLQQHVLEFYEEIFSLAH  
SLTCQQVSPQMWQLPLVFVQQDGFDFYFTDMMPLLNHYVTVDTDLLSDTKYLEMIYS  
MCKKVLTVGAGEDAECHAAKLEVIILQCKGRGIDQCIPLFVEAALERLTREVKTSELRT  
MCLQVAIAALYYPHLLNTLENLRFPNNVEPVTNHFITQWLNVDVCFGLHDKMVCVLG  
LCALIDMEQIPQVLNQVSGQILPAFILLFNGLKRAYACHAEHENDSDDDDAEEDDEETEE  
LGSEDDIDEDGQEYLEILAKQAGEDGDDDEDWEEDDAEETALEGYSTIIDDEDNPVDEYQ

IFKAI FQTIQNRNPVWYQAL THGLNEEQRKQLQDIATLADQRRAAHESKMIEKHGGYKFS  
APVVPSSFNFGGPAPGMN

>sp|Q9H8X2|IPPK\_HUMAN Inositol-pentakisphosphate 2-kinase OS=Homo sapiens GN=IPPK PE=1  
SV=1

MEEGKMDENEWGYHGEGNKSLLVVAHAQRCVVLRLFKFPPNRKKTSEEIFQHLQNI VDFGK  
NVMKEFLGENYVHYGEVVQLPLEFVKQLCLKIQSERPESRCDKDLDTLSGYAMCLPNLTR  
LQTYRFAEHRPILCVEIKPKCGFIPFSSDVTHEMKHKVCRYCMHQHLKVATGKWKQISKY  
CPLDLYSGNKQRMHFALKSLLQEAQNNLKIFKNGELIYGCKDARSPVADWSELAHHLKPF  
FFPSNGLASGPHCTRAVIRELVHVI TRVLLSGSDKGRAGT LSPGLGPQGPRVCEASPF SR  
SLRCQGKNTPERSGLPKGCLLYKTLQVQMLDLLDIEGLYPLYNRVERYLEEFPEERKTLQ  
IDGPYDEAFYQKLLDLSTEDDGTVAFALT KVQQYRVAMTAKDCS IMIALSPCLQDASSDQ  
RPVVPSSRSRFAFSVSVLDL LKPYESIPHQYKLDGKIVNYYSKTVRAKDNAVMS TRFKE  
SEDCTLV LHKV

>sp|Q4KMZ1|IQCC\_HUMAN IQ domain-containing protein C OS=Homo sapiens GN=IQCC PE=1 SV=2

MEPELLVRKVSALQACVRGFLVRRQFQSLRAEYEAIVREVEGDLGTLQWTEGRIPRPRFL  
PEKAKSHQTWKAGDRVANPEQGLWNHFPCEESEGEATWEEMVLKKS GESSANQGS LCRDH  
SSWLQMKQNRKPSQEKRDTTRMENPEATDQRLPHSQPQLQELQYHRSHLAMELLWLQQA  
INSRKEYLLLLKQTLRSPEAGPIREEPRVFLEHGEQACERDQSQPSAPLEDQSYRDRTTGE  
LEQEDDSCHRVKSPHRSPGSLATTQKNIAGAKCREPCYSKSGPPSSIPSNSQALGDRLTK  
GPDDGRQTFGGTCLLQMKIILEDQTPRGLKPRNHCPKRSRTQLSALYEDSNIKEMSPRKLD  
HKEPD CRTVRTQELGLSEDHIIWDGTLGGPEHSVLDLWRTKPPKGQA PTDRSSRDGTSNE  
PSHEGQKKQRTIPWRSKSPEILSSTKAGCTGEEQWRGRPWKTEPPG

>sp|P14316|IRF2\_HUMAN Interferon regulatory factor 2 OS=Homo sapiens GN=IRF2 PE=1 SV=2

MPVERMRMRPWLEEQINSNTIPGLKWLNEKKIFQIPWMHAARHGWDVEKDAPLFRNWAI  
HTGKHQPGVDKPDPTWKANFRCAMNSLPDIEEVKDKS IKKGNAFRVYRMLPLSERPSK  
KGKKPKTEKEDKVHKIQEPVLESSLGLSNGVSDLSPEYAVLTSTIKNEVDSTVNIIVVGQ  
SHLDSNIENQEIVTNPPDICQVVEVTTESDEQPVSMSELYPLQISPVSSYAESETTDSVP  
SDEESAEGRPHWRKRNI EGKQYLSNMGTRGSYLLPGMASFVTSNKPDLQVTIKEESNPVP  
YNSSWPPFQDLPLSSSMTPASSSRPDRETRASVIKKTSDITQARVKSC

>sp|O14896|IRF6\_HUMAN Interferon regulatory factor 6 OS=Homo sapiens GN=IRF6 PE=1 SV=1

MALHPRRVRLKPWLVAQVDSGLYPGLIWLHRDSKRFQIPWKHATRHSPQQEEENTIFKAW  
AVETGKYQEGVDDPDAKWAQLRCALNKSREFNLMYDGTKEVPMNPVKIYQVCDIPQPQ  
GSIINPGSTGSAPWDEKDNVDDEDEEDELQSQHHVPIQDTFPFLNINGSPMAPASVGN  
CSVGNCSPEAVWPKTEPLEMEVPQAPIQPFYSSPELWISSLPMTDLDIKFQYRGKEYGQT  
MTVSNPQGCR LFYGD LGPMPDQEELFGPVSLEQVKFPGPEHITNEKQKLFTSKLLDVMDR  
GLILEVSGHAIYAIRLCQCKVYWSGPCAPSLVAPNLIERQKKVKLFCLETFLSDLIAHQK  
GQIEKQPPFEIYLCFGEWPDGKPLERKLILVQVIPVARMYEMFSGDFTRSFDSGSVR  
LQISTPDIKDNIQAQLKQLYRILQTQESWQPMQPTPSMQLP PALPPQ

>sp|Q02556|IRF8\_HUMAN Interferon regulatory factor 8 OS=Homo sapiens GN=IRF8 PE=1 SV=2

MCDRNGRRRLRQWLI EQIDSSMYPLIWENEEKSMFRIPWKHAGKQDYNQEV DASFKA W  
AVFKGKFKEGDKAEPATWKTRLCALNKSPDFEEVTDRSQLDISEPYKVYRIVPEEEQKC  
KLG VATAGCVNEVTEMECGRSEIDELIKEPSVDDYMGMIKRSPSPPEACRSQLLPDWWAQ  
QPSTGVPLVTGYTTYDAHHSAFSQMVISFYGGKLVGQATTTCEGCRLSLSQPLPGTK  
LYGPEGLELVRFPADAIPSERQRQVTRKLFGHLERGVLLHSSRQGVFVKRLCQGRVFC S

GNAVCKGRPNKLERDEVVQVFDTSQFFRELQQFYNSQGRLPDGRVLCFGEEFPDMAPL  
RSKLILVQIEQLYVRQLAEEAGKSCGAGSVMQAPEEPPDQVFRMPDICASHQRSFFRE  
NQQITV

>sp|Q8WZA9|IRGQ\_HUMAN Immunity-related GTPase family Q protein OS=Homo sapiens GN=IRGQ  
PE=1 SV=1

MPPPQGDVTALFLGPPGLGKSALIAALCDKDVETLEAPEGPD SGVPSLRAAGPGLFLGE  
LSCPPAAPGPWAAEANVLVLVLPGEENGELAPALGEAALAALARGTPLLA VRNLRPGD  
SQTAAQARDQTAALLNSAGLGAADLFVLPANCGSSDGCEELERLRAALQSQAELRRLP  
PAQDGFVGLGAAELEAVREAFETGGLEAALS WVRSGLERLGSARLDLAVAGKADVGLVVD  
MLLGLDPGDPGAAPASVPTAPTFFPAPERPNVWLTVPLGHTGTATTA AASHPTHYDAL  
ILVTPGAPTEKDWQVQALLLPDAPLVCVRTDGEGEDPECLGEGKMENPKGESLKNAGGG  
GLENALSKGREKCSAGSQKAGSGEGPGKAGSEGLQQVVG MKKSGGDSERAAALSPEDET  
WEVLEEAPPPVFPLRPGGLPGLCEWLRRALPPAQAGALLALPPASPSAARTKAAALRAG  
AWRPALLASLAAAAAPLPGLGWACDVALLRGQLAEWRRGLGLEPTALARRERALGLASGE  
LAARAHFPGPVTRAEEARLGAWAGEGTAGGAALGALSFLWPAGGAAATGGLGYRAAHGV  
LLQALDEMRADEAVLAPPEPAQ

>sp|Q9Y287|ITM2B\_HUMAN Integral membrane protein 2B OS=Homo sapiens GN=ITM2B PE=1 SV=1

MVKVTFNSALAQKEAKKDEPKSGEEALI IPPDAVAVDCKDPDDVVPVGQRRAWCWCFCG  
LAFMLAGVILGGAYLYKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIK  
IFEEEEVEFISVPVPEFADSDPANIVHDFNKKLTAYLDLNLDKCYVIPLNTSIVMPPRNL  
LELLINIKAGTYLPQSYLIHEHMVITDRIENIDHLGFFIYRLCHDKETYKLQRRETIKGI  
QKREASNCFAIRHFENKFAVETLICS

>sp|Q8WYK2|JDP2\_HUMAN Jun dimerization protein 2 OS=Homo sapiens GN=JDP2 PE=1 SV=1

MMPGQIPDPSVTTGSLPGLGPLTGLPSSALTVEELKYADIRNLGAMIAPLHFLEV KLGKR  
PPVKSELDEEEERRRRREKNKVA AARCRNKKKERTEF LQRESERLELMNAELKTQIEE  
LKQERQQLILMLNRHRPTCIVRTDSVKTPESGNPLLEQLEKK

>sp|Q5VZ66|JKIP3\_HUMAN Janus kinase and microtubule-interacting protein 3 OS=Homo sapiens  
GN=JAKMIP3 PE=2 SV=2

MSKRGMSRAKGDKAELAALQAANEDLRAKLTDIQIELQQEKS KVS KVEREKNQELRQV  
REHEQHKTAVLLTELKTKLHEEKMKELQAVRETLLRQHEAELLRVIKIKDNENQRLQALL  
SALRDGGPEKVKTVLLSEAKKEAKKGFEVEKVQMQQEISELKGAKRQVEEALTLVIQADK  
IKAAEIRSVYHLHQEEITRIKKECEREIRRLMEEIKFKDRAVFVLERELGVQAGHAQRLQ  
LQKEALDEQLSQVREADRHPGSPRRELPHAAGAGDASDHSGSPEQQ LDEKDARRFQLKIA  
ELSAIIRKLEDRNALLSEERNELLKRVREAESQYKPLLDKNKRLSRKNEDLSHALRRMEN  
KLKFVTQENIEMRQRAGIIRRPSSLNLDQSQDEREVD FLKLQIVEQQNLIDELSKTLET  
AGYVKSVLERDKLLRFRKQRKKMAKL PKPVVETFFGYDEEASLESDGSSVSYQTDRTDQ  
TPCTPDDDL EEGMAKEETELRFRQLTMEYQALQRAYALLQE QVGGTLDAEREVKTREQLQ  
AEVQRAQARIEDLEKALAEQGQDMKWIEEKQALYRRNQELVEKIKMETEEARLRHEVQD  
ARDQNELLEFRILEERERKSPAISFHHTPFVDGKSPLQVYCEAGVTDIVVAELMKKL  
DILGDNANLTNEEQVVVIQARTVLT LAEKWLQQIEETE AALQRKMVDLESEKELFSKQKG  
YLDEELD YRKQALDQANKHILEEAMLYDALQQEAGAKVAELLSEEEREK LKVAVEQWKR  
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ILWS

>sp|Q14695|K0087\_HUMAN Uncharacterized protein KIAA0087 OS=Homo sapiens GN=KIAA0087 PE=2 SV=1

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>sp|Q92628|K0232\_HUMAN Uncharacterized protein KIAA0232 OS=Homo sapiens GN=KIAA0232 PE=1 SV=5

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>sp|Q6ICG6|K0930\_HUMAN Uncharacterized protein KIAA0930 OS=Homo sapiens GN=KIAA0930 PE=1  
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AELNKEVSTNTAMIQTSKTEITELRRTLQGLEIELQSLSMKAGLENTVAETECRYALQL  
QQIQGLISSIEAQLSELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLEGGQDAKMIGFP  
SSAGSVSPRSTSVTTTSSASVTTTSSNASGRRTSDVRRP

>sp|P02533|K1C14\_HUMAN Keratin, type I cytoskeletal 14 OS=Homo sapiens GN=KRT14 PE=1 SV=4  
MTTCSRQFTSSSSMKGSCGIGGGIGGGSSRISSVLAGGSCRAPSTYGGGLSVSSSRFSSG  
GACGLGGGYGGGFSSSSSFGSGFGGGYGGGLGAGLGGGFGGFGAGGDGLLVGSEKVTMQ  
NLNDRLASYLDKVRALLEANADLEVKIRDWYQRQPAEIKDYSPYFKTIEDLRNKILTAT  
VDNANVLLQIDNARLAADDFRTKYETELNLRMSVEADINGLRRVLDELTLARADLEMQIE  
SLKEELAYLKKNHEEEMNALRGQVGQVNVEMDAAPGVDSRILNEMRDQYEKMAEKNRK  
DAEEWFFTKTEELNREVATNSELVQSGKSEISELRRTMQNLEIELQSLSMKASLENSLE  
ETKGRYCMQLAQIQEMIGSVEEQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLE  
GEDAHLSSSQFSSGSQSSRDVTSSSRQIRTKVMDVHDGKVVSTHEQVLRITKN

>sp|Q04695|K1C17\_HUMAN Keratin, type I cytoskeletal 17 OS=Homo sapiens GN=KRT17 PE=1 SV=2  
MTTSIRQFTSSSSIKGSSGLGGSSRTSCRLSGGLGAGSCRLGSAGGLGSTLGGSSYSSC  
YSFGSGGGYGSSFGGVDGLLAGGEKATMQNLNDRLASYLDKVRALLEANTELEVKIRDWY  
QRQAPGPARDYSQYYRTIEELQNKILTATVDNANILLQIDNARLAADDFRTKFETEALR  
LSVEADINGLRRVLDELTLARADLEMQIENLKEELAYLKKNHEEEMNALRGQVGGEINVE  
MDAAPGVDSRILNEMRDQYEKMAEKNRKDAEDWFFSKTEELNREVATNSELVQSGKSEI  
SELRRTMQALEIELQSLSMKASLEGNAETENRYCVQLSQIQGLIGSVEEQLAQLRCM  
EQQNQEYKILLDVKTRLEQEIATYRRLLEGEDAHLTQYKKEPVTTRQVRTIVEEVQDGKV  
ISSREQVHQTR

>sp|Q14532|K1H2\_HUMAN Keratin, type I cuticular Ha2 OS=Homo sapiens GN=KRT32 PE=2 SV=3  
MTSSCCVTNNLQASLKSCRPAVSCSSGVNCRPELCLGYVCQPMACLPVCLPTTFRPAS  
CLSKTYLSSSCQAASGISGSMGPGSWYSEGA FN GNEKETMQFLNDRLASYLTRVRQLEQE  
NAELESRIQEASHSQVLTMPDYQSHFRTIEELQQKILCTKAENARMVNIIDNAKLAADD  
FRAKYEAELAMRQLEADINGLRRILDDLTLCKADLEAQVESLKEELMCLKKNHEEEVGS  
LRCQLGDRNLNIEVDAAPPVDLTRVLEEMRCQYEAMVEANRRDVEEWFNMQMEELNQVAT  
SSEQLQNYQSDIIDLRRTVNTLEIELQAQHSRLDSLENTL TESEARYSSQLAQMQCMITN  
VEAQLAEIRADLERQNQEYQVLLDVRARLEGEINTYRSLEENEDCKLPCNPCSTPSCTTC  
VPSPCVPRTVCPVRTVGMPCSPCPQGRY

>sp|P04264|K2C1\_HUMAN Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6  
MSRQFSSRSRGYRSGGGFSSGSAGIINYQRRTTSSSTRSGGGGGRFSSCGGGGSGFAGG

GFGSRSLVNLGGSKSISISVARGGGRSGFGGGYGGGGFGGGGFGGGGFGGGGIGGGGFG  
GFGSGGGGFGGGGFGGGGYGGGYGVPVCPGGIQEVTINQSLLQPLNVEIDPEIQKVKRSRE  
REQIKSLNNQFASFIDKVRFLQEQNQVLQTKWELLQQVDTSTRTHNLEPYFESFINNLR  
RVDQLKSDQSRLDSELKNMQDMVEDYRNKYEDEINKRTNAENEFVTIKKDVDGAYMTKVD  
LQAKLDNLQQEIDFLTALYQAELSQMGTQISETNVILSMDNNRSLDLDSIIAEVKAQYED  
IAQKSKAEAEESLYQSKYEELQITAGRHGDSVRNSKIEISELNRVIQRLRSEIDNVKKQIS  
NLQQSISDAEQRGENALKDAKNKLNLDLEDALQQAKEDLARLLRDYQELMNTKLALDLEIA  
TYRTLLEGEESRMSGECAPNVSVSVSTSHTTISGGGSRGGGGGYGSGGSSYGSGGSSYG  
SGGGGGGGRSGYSGGSSYGSGGSSYGSGGGGGGHGSGYSGSSSGGYRGGSGGGGGSSG  
GRSGGGSSSGSIGGRGSSSGVKSSGGSSSVKFVSTTYSVGTR

>sp|Q3SY84|K2C71\_HUMAN Keratin, type II cytoskeletal 71 OS=Homo sapiens GN=KRT71 PE=1  
SV=3

MSRQFTCKSGAAAKGGFSGCSAVLSGGSSSSFRAGSKGLSGGFGSRSLYSLGGVRSLNVA  
SGSGKSGGYGFGGRGRASGFAGSMFGSVALGPVCPVCPGGIHQVTVNESLLAPLNVELD  
PEIQKVRAQEREQIKALNNKFASFIDKVRFLQEQNQVLETKWELLQQDLNNCKNNLEPI  
LEGYISNLRKQLETLSGDRVRDLSELNRNRDVVEDYKKRYEEEINKRTAAENEFVLLKKD  
VDAAYANKVELQAKVESMDQEKFFRCLFEAEITQIQSHISDMSVILSMDNNRNLDLDSI  
IDEVRTQYEEIALKSKAEAEALYQTKFQELQLAAGRHGDDLKNTKNEISELTRLIQRIRS  
EIENVKKQASNLETAIADAEQRGDNALKDARAKLDELEGALHQAKEELARMLREYQELMS  
LKLALDMEIATYRKLLSEECRMSGFSPSPVSISIISSSTGGSVYGFPRPSMVSGGYVANS  
SNCISGVCSVRGGEGRSRGSANDYKDTLGKGSSLSAPSKTSR

>sp|Q86Y46|K2C73\_HUMAN Keratin, type II cytoskeletal 73 OS=Homo sapiens GN=KRT73 PE=1  
SV=1

MSRQFTYKSGAAAKGGFSGCSAVLSGGSSSSYRAGGKGLSGGFSSRSLYSLGGARSISFN  
VASGSGWAGGYGFGGRGRASGFAGSMFGSVALGSVCPSLCPPGGIHQVTINKSLLAPLNVE  
LDPEIQKVRAQEREQIKVLNNKFASFIDKVRFLQEQNQVLETKWELLQQDLNNCKNNLE  
PILEGYISNLRKQLETLSGDRVRDLSELRSVREVVEDYKKRYEEEINKRTTAENEFVVLK  
KDVDAAYSKVELQAKVDALDGEIKFFKCLYEGETAQIQSHISDTSIIILSMDNNRNLDL  
SIIAEVRAQYEEIARKSKAEAEALYQTKFQELQLAAGRHGDDLKHTKNEISELTRLIQR  
LSEIESVKKQCANLETAIADAEQRGDCALKDARAKLDELEGALQQAKEELARMLREYQEL  
LSVKLSLDIEIATYRKLLGEEECRMSGYETNSVSVINSSMAGMAGTGAGFGFSNAGTY  
GYWPSSVSGGYSMPLPGGCVTSGNCSPRGEARTRLGSASEFRDSQGKTLALSSPTKKTMR

>sp|Q9UIJ7|KAD3\_HUMAN GTP:AMP phosphotransferase AK3, mitochondrial OS=Homo sapiens  
GN=AK3 PE=1 SV=4

MGASARLLRAVIMGAPGSGKGTVSSRITTHFELKHLSSGDLLRDNMLRGTEIGVLAKAFI  
DQGKLIPDDVMTRLALHELKNLTQYSWLLDGFPRTLPAEALDRAYQIDTVINLNPFEV  
IKQRLTARWIHPASGRVYNIEFNPPKTVGIDDLTGEPLIQREDDKPETVIKRLKAYEDQT  
KPVLEYQKKGVLFTFSGTETNKIWPYVYAFQTKVPQRSQKASVTP

>sp|Q8IU85|KCC1D\_HUMAN Calcium/calmodulin-dependent protein kinase type 1D OS=Homo  
sapiens GN=CAMK1D PE=1 SV=1

MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVVLAEKATGKLFAVKCIPKKALK  
GKESSIENEIAVLRKIKHENIVALEDIYESPNHLYLVMQLVSGGELFDRIVEKGFYTEKD  
ASTLIRQVLDAVYYLHRMGIHVHDLKPENLLYSQDEESKIMISDFGLSKMEGKGDVMST  
ACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAIILLCGYPPFYDENDSKLFEQILKAEYEF

DSPYWDDISDSAKDFIRNLMEKDPNKRYTCEQAARHPWIAGDTALNKNIHESVSAQIRKN  
FAKSKWRQAFNATAVVRHMRKLHLGSSLDSSNASVSSSLSLASQKDC LAPSTLCSFISSS  
SGVSGVGAERRPRPTTVTAHSGSK

>sp|Q96CX2|KCD12\_HUMAN BTB/POZ domain-containing protein KCTD12 OS=Homo sapiens GN=KCTD12  
PE=1 SV=1

MALADSTRGLPNGGGGGGSGSSSSSAEPPLFPDIVELNVGGQVYVTRRCTVVSVPDSLL  
WRMFTQQQPQELARDSKGRFFLD RDGFLFRYILDYLRDLQLVLPDYFPERSRLQREAEYF  
ELPELVRRLGAPQQPGPGPPSRRGVHKEGSLGDELLPLGYSEPEQEGASAGAPSPTLE  
LASRSPSGGAAGPLLTSPQSLDGSRRSGYITIGYRGSYTIGRDAQADAKFRRVARITVCG  
KTS LAKEVFGDTL NESRDPDRPPERYTSRYYLKFNFLEQAFDKLSESGFHMVACSSTGTC  
AFASSTDQSEDKIWTSYTEYVFCRE

>sp|Q9UKS7|IKZF2\_HUMAN Zinc finger protein Helios OS=Homo sapiens GN=IKZF2 PE=1 SV=2

METEADGYITCDNELSPEREHSNMAIDLTSSTPNGQHASP SHMTSTNSVKLEMQSDEEC  
DRKPLSREDEIRGHDEGSSLEEPLIESSEVADNRKVQELQGE GGI RLPNGKLKCDVCGMV  
CIGPNVLMVHKRSHTGERPFHCNQC GASFTQKGNLLRH IKLHSGEKPFCPCFSYACRRR  
DALTGHLRTHSVGKPHKCN YCGRSYKQRSSLEE HKERCHNYLQNVSMEAAGQVM SHHVPP  
MEDCKEQEPIMDNNISLVPFERPAVIEKLTGNMGRKSSTPQKFVGEKLMRFSYPDIHFD  
MNLTYEKEAELMQSHMMDQAINNAITYLGAEALHPLMQHPPSTIAEVAPVISSAYSQVYH  
PNRIERPISRETADSHENNMDGPISLIRPKSRPQEREASPSNSCLDSTDSESSHDDHQS Y  
QGHPALNPKRKQSPAYMKEDVKALDTTKAPKGS LKDIYKVFNGEGEQIRAFKCEHCRVLF  
LDHVMYTIHMGCHGYRDPLECNICGYRSQDRYEFSSHIVRGEHTFH

>sp|P29459|IL12A\_HUMAN Interleukin-12 subunit alpha OS=Homo sapiens GN=IL12A PE=1 SV=2

MCPARSLLLVATLVLLDHL SLARNLPVATPDPGMFCLHHSQNLLRAVSNMLQKARQTLE  
FYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMM  
ALCLSSIIYEDLMYQVEFKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFNSETVPQK  
SSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS

>sp|P40933|IL15\_HUMAN Interleukin-15 OS=Homo sapiens GN=IL15 PE=1 SV=1

MRISKPHLRISISIQCYLCLLLNSHFLTEAGIHVFILGCFSAGLPKTEANWVNVISDLKKI  
EDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANN  
SLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

>sp|Q9HBE5|IL21R\_HUMAN Interleukin-21 receptor OS=Homo sapiens GN=IL21R PE=1 SV=1

MPRGWAAPLLLLLLQGGWGPCDPLVCYTDYLQTVICILEMWNLHPSTLTLTWQDQYEELKD  
EATSCSLHRSAHNATHATYTCHMDVHFHMADDIFSVNITDQSGNYSQECGSFLLAESIKP  
APPFNVTVTFSGQYNISWRSDYEDPAFYMLK GK LQYELQYRNRGDPWAVSPRRKLISVDS  
RSVSLPLPEFRKDSSYELQVRAGPMPGSSYQGTWSEWSDPVIFQTQSEELKEGWNPHLLL  
LLLLVIVFIPAFWSL KTHPLWRLWKKIWAVPSPERFFMPLYKGCSGDFKKWVGAPFTGSS  
LELGPWSPEVPSTLEVYSCHPPRSPAKRLQLTELQEP AELVESDGVPKPSFWPTAQNSGG  
SAYSEERDRPYGLVSIDTVTVLDAEGPCTWPCSCEDDGYPALDL DAGLEPSPGLEDPLLD  
AGTTVLSCGCVSAGSPGLGGPLGSLLDRLKPPLADGEDWAGGLPWGGRSPGGVSESEAGS  
PLAGLMDMTFDSGFGSDCSSPVECDFTSPGDEGPPRSYLRQWVVI PPPLSSPGPQAS

>sp|P31785|IL2RG\_HUMAN Cytokine receptor common subunit gamma OS=Homo sapiens GN=IL2RG  
PE=1 SV=1

MLKPSLPFTSLLFLQLPLLGVGLNTTILTPNGNEDTTADFFLTMTPTDSL SVSTLPLPEV  
QCFVFNVEYMNCTWNSSSEPQPTNLT LHYWYKNSDNDKVQKCSHYLFSEEITSGCQLQKK

EIHLVQTFVVLQDPREPRRQATQMLKLQNLVIPWAPENLTHLKLSQSLELNWNNRFLN  
HCLEHLVQYRTDWDHSWTEQSVDRHKFSLPSVDGQKRYTFRVRSRFPNLCGSAQHWSEW  
SHPIHWGNTSKENPFLFALEAVVISVSGMGLIISLLCVYFWLERTMPRIPTLKNLEDLV  
TEYHGNSAWSGVSKGLAESLQPDYSERLCLVSEIPPKGGALGEGPGASPCNQHSPYWAP  
PCYTLKPET

>sp|Q71H61|ILDR2\_HUMAN Immunoglobulin-like domain-containing receptor 2 OS=Homo sapiens  
GN=ILDR2 PE=2 SV=1

MDRVLLRWISLFWLTAMVEGLQVTPDKKKVAMLFQPTVLRCHFSTSSHQPAVVQWKFKS  
YCQDRMGESLGMSSTRAQSLSKRNLEWDPYLDCLDSRRTVRVVASKQGSTVTLGDFYRGR  
EITIVHDADLQIGKLMWGDSGLYYCIITTPDDLEGKNEDSVELLVLGRTGLLADLLPSFA  
VEIMPEWVFGVLVLLGVFLFFVLVVICWCQCCPHSCCCYVRCPCCPDSCCPQALYEAGK  
AAKAGYPSPVSGVPGPYSIPSVPLGGAPSSGMLMDKPHPPPLAPSDSTGGSHSVRKGYRI  
QADKERDSMKVLYYVEKELAQFDPARRMRGRYNNTISELSSLHEEDSNFRQSFHQMRSKQ  
FPVSGDLESNPDYWSGVMGSSGASRGPSAMEYNKEDRESFRHSQPRSKSEMLSRKNFAT  
GVPVSMDELAADFADSYGQRPRRADGNSHEARGGSRFERSESRAHSGFYQDDSL EYYGQ  
RSRSREPLTDADRGWAFSPARRRPAEDAHLPRLVSRTPGTAPKYDHSYLSARERQARPE  
GASRGSLETSPSKRSAQLGPRASYYAWSPPGTYKAGSSQDDQEDASDDALPPYSELELT  
RGPSYRGRDLPYHSNSEKKRKKPAKKTNDFPTRMSLVV

>sp|Q9H0C8|ILKAP\_HUMAN Integrin-linked kinase-associated serine/threonine phosphatase 2C  
OS=Homo sapiens GN=ILKAP PE=1 SV=1

MDLFGDLPEPERSPRPAAGKEAQKGPLLFDDLPPASSTDGSGGGPLLFDLPPASSGDSG  
SLATISQMVKTEGKGAKRKTSEEEKNGSEELVEKKVCKASSVIFGLKGYVAERKGEREE  
MQDAHVILNDITEECRPPSSLITRVSYFAVFDGHHGIRASKFAAQNLHQNLIRKFPKGDV  
ISVEKTVKRCLLDTFKHTDEEFLKQASSQKPAWKDGGSTATCVLAVDNILYIANLGDSRAI  
LCRYNEESQKHAALSLSKEHNPTQYEERMRIQKAGGNVRDGRVLGVLEVSRSIGDGQYKR  
CGVTSVPDIRRCQLTPNDRFILLACDGLFKVFTPEEAVNFILSCLEDEKIQTREGKSAAD  
ARYEAAACNRLANKAVQRGSADNVTVMVVRIGH

>sp|Q01638|ILRL1\_HUMAN Interleukin-1 receptor-like 1 OS=Homo sapiens GN=IL1RL1 PE=1 SV=4

MGFWILAILTILMYSTAAKFSKQSWGLENEALIVRCPRQGKPSYTVDWYYSQTNKSIPTQ  
ERNRVFASGQLLKFLPAAVADSGIYTCIVRSPTFNRTGYANVTIYKKQSDCNVPDYLMS  
TVSGSEKNSKIYCTIDLYNWTAPLEWFKNCQALQGSRYRAHKSFLVIDNVMTEDAGDYT  
CKFIHNENGANYSVTATRSFTVKDEQGFSLFPVIGAPAQNEIKEVEIGKANLTCACFG  
KGTQFLAAVLWQLNGTKITDFGEPRIQQEEGQNSFSNGLACLDMLVRIADVKEEDLLLQ  
YDCLALNLHGLRRHTVRLSRKNPIDHHSIYCI IAVCSVFLMLINVLVIILKMFWIEATLL  
WRDIAKPYKTRNDGKLYDAYVYVPRNYKSSTDGASRVEHFVHQILPDVLENKCGYTLCTY  
GRDMLPGEDVVTAVETNIRKSRRHIFILTPQITHNKEFAYEQEVALHCALIQNDAKVILI  
EMEALSELDMQLQAEALQDSLQHLMKVQGTIKWREDHIANKRSLNSKFWKHVRYQMPVPSK  
IPRKASSLTPLAAQKQ

>sp|Q9P2X3|IMPCT\_HUMAN Protein IMPACT OS=Homo sapiens GN=IMPACT PE=1 SV=2

MAEGDAGSDQRQNEEIEAMAAIYGEEWCVIDDCAKIFCIRISDDIDDPKWTLCQVMLPN  
EYPGTAPPIYQLNAPWLKGQERADLSNSLEEIYIQNIGESILYLWVEKIRDVLIQKSQMT  
EPGPDVKKKTEEDVECEDDLILACQPESSLKALDFDISETRTEVEVEELPPIDHGIPIT  
DRRSTFQAH LAPVCPKQVKMVL SKLYENKKIASATHNIYAYRIYCEDKQTF LQDCEDDG  
ETAAGGRLLHLM EILNVKNMVVVSRWYGGILLGPDRFKHINNCARNILVEKNYTNSP EE



SSKALGKNKKVRKDKKRNEH

>sp|Q9GZP8|IMUP\_HUMAN Immortalization up-regulated protein OS=Homo sapiens GN=IMUP PE=1 SV=1

MEFDLGAALPTSQKPGVGAGHGGDPKLSPHKVQGRSEAGAGPGPKQGHSSSDSSSSSS  
DSDTDVKSHAAGSKQHESIPGKAKKPKVKKKEKGKKEKGKKKEAPH

>sp|P80217|IN35\_HUMAN Interferon-induced 35 kDa protein OS=Homo sapiens GN=IFI35 PE=1 SV=5

MSAPLDAALHALQEEQARLKMRLWDLQQLRKELGDSPKDKVPFSVPKIPLVFRGHTQQDP  
EVPKSLVSNLRIHCPLLAGSALITFDDPKVAEQVLQQEHTINMEECRLRVQVQPLELPM  
VTTIQMSSQLSGRRVLVTGFPASLRLSEEELLDKLEIFFGKTRNGGDDVDVRELLPGSVM  
LGFARDGVAQRLCQIGQFTVPLGGQVPLRVSPYVNGEIQKAEIRSQPVPRSVLVLNIPD  
ILDGPELHDVLEIHFQKPTRGGGEVEALTVVPQGGQGLAVFTSESG

>sp|Q9C086|IN08B\_HUMAN IN080 complex subunit B OS=Homo sapiens GN=IN080B PE=1 SV=2

MSKLWRRGSTSGAMEAPEPGEALELSLAGAHGHGVHKKKKHKKKKHKKHKKHQQEEDAGPT  
QPSPAKPQLKLKIKLGGQVLGTSVPTFTV IPEGPRSPSPLMVDNEEPMEGVPLEQYR  
AWLDEDSNLSPSPLRDLSGGLGGQEEEEQRWLEDALEKGELEDDNGDLKKEINERLLTARQ  
RALLQKARSQPSMPLPVAEGCPPPALTEMLLKREERARKRRLQAARRAEHKNQTIE  
RLTKTAATSGRGGRGARGERRGGRAAAPAPMVRYCSGAQGSTLSFPPGVPAPTAVSQRP  
SPSGPPPRCSVPGCPHPRRYACSRTGQALCSLQCYRINLQMLGGPEGPGSPLLAT

>sp|C9JW0|INAM1\_HUMAN Putative transmembrane protein INAFM1 OS=Homo sapiens GN=INAFM1 PE=4 SV=1

MRGTSVCVGGGAESPGGAGLSEGPRGRWRLAPVCAYFLCVSLAAVLLAVYYGLIWPTRS  
PAAPAGPQPSAPSPPCAARPGVPPVPAPAAASLSCLLGVPGGPRPQLQLPLSRRRRYSDP  
DRRPSRQTPRETPEAAEGRRPG

>sp|Q9H160|ING2\_HUMAN Inhibitor of growth protein 2 OS=Homo sapiens GN=ING2 PE=1 SV=2

MLGQQQQQLYSSAALLTGERSLLTCYVQDYLECVESLPHDMQRNVSVLRELDNKYQETL  
KEIDDVYEKYKKEDDLNQQKRLQQLQRALINSQELGDEKIQIVTQMLELVENRARQMEL  
HSQCFQDPAESERASDKAKMDSQPERSSRRPRRQRTSESRLCHMANGIEDCDDQPPKE  
KKSKSAKKKKRSKAKQEREASPVFAIDPNEPTYCLNQVSYGEMIGCDNEQCPIEWFHF  
SCVSLTYKPKGKWYCPKCRGDNEKTMKSTKTKKDRRSR

>sp|Q92813|IOD2\_HUMAN Type II iodothyronine deiodinase OS=Homo sapiens GN=DI02 PE=1 SV=4

MGILSVDLLITLQILPVFFSNCLFLALYDSVILLKHVVLLLSRSKSTRGEWRRMLTSEGL  
RCVWKSFLDAYQVKLGEDAPNSSVVHVSSTEGDNSGNGTQEKIAEGATCHLLDFASP  
ERPLVVNFGSATUPPFTSQLPAFRKLVVEEFSSVADFLVYIDEAHPSDGWAIPGSSLSF  
EVKKHQEQEDRCAAQQLLERFSLPPQCRVVADRMNANAIYGVAFERVCIVQRQKIAY  
LGGKGPFSYNLQEVRRHWLEKNFSKRUKKTRLAG

>sp|Q9C010|IPKB\_HUMAN cAMP-dependent protein kinase inhibitor beta OS=Homo sapiens GN=PKIB PE=3 SV=1

MRTDSSKMTDVESGVANFASSARAGRRLPDIQSSAATDGTSDLPLKLEALSVKEDAKE  
KDEKTTQDQLEKPQNEEK

>sp|Q9UI26|IPO11\_HUMAN Importin-11 OS=Homo sapiens GN=IPO11 PE=1 SV=1

MDLNSASTVVLQVLTAQTSQDTAVLKPAEEQLKQWETQPGFYSVLLNIFTNHTLDINVRW  
LAVLYFKHGIDRYWRRVAPHALSEEEKTTLRAGLITNFNEPINQIATQIAVLIKVARLD  
CPRQWPELIPTLIESVKVQDDLQHRALLTFYHVTKTLASKRLAADRKLFYDLASGIYNF

ACSLWNHHTDTFLQEVSSGNEAAILSSLERTLLSLKVLRKLTVNGFVEPHKNMEVMGFLH  
GIFERLKQFLECSRSIGTDNVCRDRLKTIILFTKVLLDFLDQHPFSFTPLIQRSLEFSV  
SYVFTEVGEVTFERFIVQCMNLKIMIVKNYAYKPSKNFEDSSPETLEAHKIKMAFFTYP  
TLTEICRRLVSHYFLLTEEELTMWEEDPEGFTVEETGGDSWKYSLRPCTEVLFIDIFHEY  
NQTLTPVLLEMMQTLQGPTNVEDMNALLIKDAVYNAVGLAAYELFDSVDFDQWFKNQLLP  
ELQVIHNRYKPLRRRVIWLIGQWISVKFKSDLRPMLYEAI CNLLQDQDLVVRIETATTLK  
LTVDDFEFRTDQFLPYLETMTLLFQLLQQVTECDTKMHVLHVLSCVIERVNMQIRPYVG  
CLVQYLP LLWKQSEEHNMLRCAILTTLIHLVQGLGADSKNLYPFLLPVIQLSTDVSQPPH  
VYLLEDGLELWLVTLENSPCITPELLRIFQNMSPLELSENLRCTFKIINGYIFLSSTE  
FLQTYAVGLCQSFCELLKEITTEGQVQVLKVVENALKVNPILGPQMFQPILPYVFKGIIE  
GERYPVVMSTYLGMGRVLLQNTSFFSSLLNEMAHKFNQEMDQLGNMIEMWVDRMDNIT  
QPERRKL SALALLSLLPSDNSVIQDKFCGIINISVEGLHDMTEDPETGTYKDCMLMSHL  
EEPKVTEDEEPPTEQDKRKKMLALKDPVHTVSLQQFIYEKLKAQQEMLGEQGFQSLMETV  
DTEIVTQLQEFLQGF

>sp|094829|IPO13\_HUMAN Importin-13 OS=Homo sapiens GN=IPO13 PE=1 SV=3

MERREEQPGAAGAGAAPALDFTVENVEKALHQLYYDPNIENKNLAQKWLMAQVSPQAWH  
FSWQLLPDKVPEIQYFGASALHIKISRYWSDIPTDQYESLKAQLFTQITRFASGSKIIVL  
TRLCVALASLALSMMPDAWPCAVADMVRLFQAEDSPVDGQGRCLALLELLTVLP EEFQTS  
RLPQYRKGLVRTSLAVECGAVFPLLEQLLQQPSSPSCVRQKVLKCFSSWVQLEVPLQDCE  
ALIQAAFAALQDSELFDSVEAIVNAISQPDARQYVNTLLKLIPLVLGLQEQLRQAVQNG  
DMETSHGICRIAAVALGENHSRALLDQVEHWQSFLALVNMIMFCTGIPGHYPVNETTSSLT  
LTFWYTLQDDILSFEAEKQAVYQQVYRPVYFQLVDVLLHKAQFPSDEEYGFWSDEKEQF  
RIYRVDISDTLMYVYEMLGAELLSNLYDKLGRLLTSSEEPYSWQHT EALLYGFQSI AETI  
DVNYSDVVPGLIGLIPRISISNVQLADTMFTIGALSEWLADHPVMINSVLPLVLHALGN  
PELSVSSVSTLKKICRECKYDLPPYAANIVAVSQDVL MKQIHKTSQCMWLMQALGFLLSA  
LQVEEILKNLHSLISPYIQLEKLAEIIPNPSNKLAIVHILGLLSNLFTTLDISHHEDDH  
EGPELRKLPVPQGNPVVVVLQQVFQLIQKVL SKWLNDQVVEAVCAIFEKSVKTLDDF  
APMVPQLCEMLGRMYSTIPQASALDLTRQLVHIFAHEPAHFPIEALFLLVTSVTLTLFQ  
QGPRDHPDIVDSFMQLLAQALKRKPDLFLCERLDVKAVFQCAVLALKFPEAPTVKASCGF  
FTELLPRCGEVESVGKVVEDGRMLLI AVLEAIGGQASRSLMDCFADILFALNKHCF SLL  
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ADY

>sp|Q8TEX9|IPO4\_HUMAN Importin-4 OS=Homo sapiens GN=IPO4 PE=1 SV=2

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QLLQHSTHSPHSPEMGLLLSVVVTSRPEAFQPHHRELLRLLNETLGEVGSPLLFYS  
LRTLTTMAPYLTEDVPLARMLVPKLIAMQTLIPIDEAKACEALEALDELLESEVPVIT  
PYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVKSALLKNRLLPPLLHTLFPIVA  
AEPPPGQLDPEDQDEEEEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCPLMPMLEEA  
LRSESPYQRKAGLLVLAVLSDGAGDHIRQRLLPPLLQIVCKGLEDPSQVVRNAALFALGQ  
FSENLPQPHISSYSREVMPLLLAYLKSVP LGHTHHLAKACYALENFVENLGPKVQPYLPEL  
MECMLQLLRNPSSPRAKELAVSALGAIATAAQASLLPYFPAIMEHLREFLLTGREDLQPV  
QIQSLET LGVLARAVGEPMRPLAECCQLGLGLCDQVDDPDLRRCTYSLFAALSGLMGE  
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SGYSVENAFFDEKEDTCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEA  
LGQFCCALHKACQSCPSEPNTAALQAALARVVP SYMQAVNRERERQVMAVLEALTGVLR  
SCGTLTLKPPGR LAELCGVLKAVLQRKTACQDTDEEEEEEDDDQAEYDAMLEHAGEAIP  
ALAAAAGGDSFAPFFAGFLPLLCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL  
LPVLLSTAQEADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFLLARERHDRVDRN  
ICGALARLLMASPTRKPEPQVLAALLHALPLKEDLEEWVTIGRLFSFLYQSSPDQVIDVA  
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S

>sp|Q9Y573|IPP\_HUMAN Actin-binding protein IPP OS=Homo sapiens GN=IPP PE=2 SV=1

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YFAALFTGGMKESSKDVVPILGIEAGIFQILLDFIYTGI VNI GVN NVQELIIAADMLQLT  
EVVHLCCEFLKGQIDPLNCIGIFQFSEQIACHDLLEFSENYIHVHFLEVHSGEFLATK  
DQLIKILRSEELSIEDEYQVFLAAMQWILKDLGKRRKHVVEVLDPIRFPLPPQRLLKYI  
EGVSDFNLRLVALQTLLKEYCEVCKSPKENKFC SFLQTSKVRPRKKARKYLYAVGGYTRLQ  
GGRWSDSRALSCVERFDTSFYWTTVSSLHQARSGLGVTVLGGMVYAIGGEKDSMIFDCT  
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GNMAVSRYYFGCCMQGLIYVIGGISNEGIELRSFEVYDPLSKRWSPLPPMGTTRRAYLGV  
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>sp|Q96DY2|IQCD\_HUMAN IQ domain-containing protein D OS=Homo sapiens GN=IQCD PE=2 SV=2

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YKVELVTLLSYVASNREDMEGMLGEDVMRAVREHEDLCQVLENVRLKEKERQLQEKE  
AEEEGWLRDRLLSIELQKSSLSPLMQQIKDSTKNVLRLLSNPQAARLLQMQTQGRSAEA  
QNFIDSLIELRGFLFEKLLTSPMEARDKAQFLQDISRQNSNNQII DTLEKELAERMKNR  
NAEVEKENFVIQELKNHLHQVLKFSENSLVRTKQEAQKQKADFRASQARVAKIQQEILQ  
LQSQFYNLVMENREAEQALRKKYK VETEIENWIKYDTEMGEKQEELEDLDAVHREEKI  
SLEELRRRHKVLVGFEFAQIREEREINSKKRMEAEQEMVRMVRAATLIQALWKGYLVRSL  
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>sp|Q8NOW5|IQCK\_HUMAN IQ domain-containing protein K OS=Homo sapiens GN=IQCK PE=2 SV=1

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INPKTCSPKEYLETFIFPVLLPGMASLLHQAKKEKCFERKRTKFIACDFLTEWLYNQNP  
RAGEPFTFEFFSIPFVEERLKQHRPPIPLSLLLTEEEAALYIQSFWRACVVRCDPEIQEL  
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>sp|Q9NWZ3|IRAK4\_HUMAN Interleukin-1 receptor-associated kinase 4 OS=Homo sapiens  
GN=IRAK4 PE=1 SV=1

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QTGKSPTSSELLFDWGTNCTVGDLDVLLIQNEFFAPASLLLPDAVPKTANTLPSKEAITV  
QQKQMPFCDKDRITMTPVQNLEQSYMPDSSSPENKSLEVSDFRHSFSFYELKNVTNNF  
DERPISVGGNKMGEFGGVYKGYVNNTTVAVKKLAAMVDITTEELKQFQDEIKVMAKC  
QHENLVELLGFSSDGDLDCLVYVYMPNGSLDRLSCLDGTPLSWHMRCKIAQGAANGIN  
FLHENHHIHRDIKSANILLDEAFTAKISDFGLARASEKFAQTVMTSRIVGTTAYMAPEAL  
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>sp|Q96RY7|IF140\_HUMAN Intraflagellar transport protein 140 homolog OS=Homo sapiens  
GN=IFT140 PE=1 SV=1

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LDMFNWKKSSSGSLLKMGSHGELLFFVSLMDGTVHYVDEKGKTTQVVSADSTIQMLFYME  
KREALVVVTENLRSLYTPPEGKAEEVMKVLSGKTGRRADIALIEGSLLVMAVGEAAL  
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PGAEGKDRWALQPTTELQGNITQIQWGSRKNNLAVNSVISVAILSERAMSSHFHQVAAM  
QVSPSLLNVCFLSTGVAHSLRTDMHISGVFATKDAVAVWNGRQVAIFELSGAAIRSAGTF  
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AHFKSFDLSRREAKAHCSRSRLAELVPGVGGIASLRCSSTGISTISILPSKADNSPDSKIC  
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FVCEAVQETPRSQQPSANGQPQDGRAGPAADVILSFFISEEHGFLHESFPRPATSHSL  
LGMEVPYYFTRKPEEADREDEVEPGCHHIPQMVSRRLRDFVGLDCDKATRDAMLHFS  
FFVTIGDMDEAFKSIKLIKSEAVWENMARMCVKTQRLDVAKVCLGNMGHARGARALREAE  
QEPELEARVAVLATQLGMLDAEQLYRKCKRHDLLNKFYQAAGRWEALQVAEHHRVHL  
RSTYHRYAGHLEASADCSRALSYYEKSDTHRFEVPRMLSEDLPSELYVNMKDKTLWRW  
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RAVELLLAARKYQEALQLCLGQNMSITEEMAEKMTVAKDSSDLPEESRRELLEQIADCCM  
RQGSYHLATKKYTQAGNKLKAMRALLKSGDTEKITFFASVSRQKEIYIMAANYLQSLDWR  
KEPEIMKNIIGFYTKGRALDLAGFYDACAQVEIDEYQNYDKAHGALTEAYKCLAKAKAK  
SPLDQETRLAQLQSRMALVKRFIQARRTYTEDPKESIKQCELLLEPDLDSTIRIGDVYG  
FLVEHYVRKEEYQTAYRFL EEMRRRLPLANMSYYVSPQAVDAVHRGLGLPLPRTVPEQVR  
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>sp|Q9UG01|IF172\_HUMAN Intraflagellar transport protein 172 homolog OS=Homo sapiens  
GN=IFT172 PE=1 SV=2

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FDDESGESQGKLVNHPCPPYALAWATNSIVAAGCDRKIVAYGKEGHMLQTFDYSRDPQE  
REFTTAVSSPGGQSVVLGSYDRLRVFNWIPRRSIWEEAKPKEITNLYTITALAWKRDGSR  
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WDECI AVAEAKGHPALEKLRRSYYQWLMDTQQEERAGELQESQGDGLAATSLYLKAGLPA  
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AVELARLAFPVEVVKLEEAWGDHLVQQKQLDAAINHYIEARCSIKAIEAALGARQWKKA I

YILDLQDRNTASKYYPLVAQHYASLQEYEIAEELYTKGDRTKDAIDMYTQAGRWEQAHKL  
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QEEYEREATKKGARGVEGFVEQARHWEQAGEYSRAVDCYLKVRDSGNSGLAEKCMKAAE  
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HSWADLRDVLNLCENLVKSSEANSPAHEEFKTMLLIAHYATRSAAQSVKQLETVAARL  
SVSLLRHTQLLPVDKAFYEAGIAAKAVGWDNMAFIFLNRFLDLTDAIEEGTLDGLDHSDF  
QD TDIPFEVPLPAKQHVPEAERE EVRDWVLTVSMDQRLEQVLP RDERGAYEASLVAASTG  
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LPSTSFSFQ

>sp|Q04637|IF4G1\_HUMAN Eukaryotic translation initiation factor 4 gamma 1 OS=Homo sapiens  
GN=EIF4G1 PE=1 SV=4

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IADRPGLPGPEHSPSESQPSSPSPTSPSPVLEPGSEPNLAVLSIPGDTMTTIQMSVEES  
TPISRETGEPYRLSPEPTPLAEPILEVEVTLSKVPPESEFSSSPLQAPTPLASHTVEIHE  
PNGMVPSEDLPEVESSPELAPPPACPSSESPVPIAPTAQPEELNGAPSPPAVDLSPVSE  
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VPEVENQPPAGSNPGESESGVPPRPEEADETWDSKEDIHNAENIQPGEQKYEYKSDQ  
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QMEKIIKEKKTSSRIRFMLQDVLDLRGSNWVPRRGDQGPKTIDQIHKEAEME EHEHIKV  
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EAVQCVQELASPSLLFIFVRHGVESTLERSA IAREHMGQLLHQLLCAGHLSTAQYYQGLY  
EILELAEDMEIDIPHVWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLEIL  
GLLCKSMGPKKVGTLWREAGLSWKEFLPEGQDIGAFVAEQKVEYTLGEESEAPGQALPS  
EELNRQLEKLLKEGSSNQRFVDWIEANLSEQQIVSNTLVRALMTAVCYSAIIFETPLRVD  
VAVLKARAKLLQKYL CDEQKELQALYALQALVVTLEQPPNLLRMFFDALYDEDVVKEDAF  
YSWESSKDPAEQQGKGVALKSVTAFFKWLREAE EESDHN

>sp|043432|IF4G3\_HUMAN Eukaryotic translation initiation factor 4 gamma 3 OS=Homo sapiens  
GN=EIF4G3 PE=1 SV=2

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PQQLPSQVPEHSPVYGTVESAHLAASTPVTAASDQKQEEKPKDPVLKSPSPVLRVLVS  
GEKKEQEGQTSETTAIVSIAELPLPSPTTVSSVARSTIAAPTSSALSSQPIFTTAIDDR  
CELSSPREDTIPIPSLTSTCTETSDPLPTNENDDICKKPCSVAPNDIPLVSSTNLIN  
GVSEKLSATESIVEIVKQEVLP LTLELEILENPPEEMKLECIPAPITPSTVPSFPPTPPT  
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LESEQDKMSQGFHPERDPSDLKKVKA VEENGEEAEVVRNGAESVSEGEIDANSSTDS  
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TVDTEERLKGVIDLVFEKAIDEPSFSVAYANMCRLVTLKVPMDKPGNTVNFRLLLNR  
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AELVTPMLKEGGISMRELTI EFSKPLLPVGRAGVLLSEILHLLCKQMSHKKV GALWREAD  
LSWKDFLPEGEDVHNFLEQLKDFIESDPCSSEALSKKELSAEELYKRLEKLI IEDKAN  
DEQIFDWVEANLDEIQMSSPTFLRALMTAVCKAAI IADSSTFRVDTAVIKQRPVILLKYL  
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>sp|Q15056|IF4H\_HUMAN Eukaryotic translation initiation factor 4H OS=Homo sapiens  
GN=EIF4H PE=1 SV=5

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QDKGGFGFRKGGPDDRGMGSSRESRGWDSRDDFN SGFRDDFLGGRGGSRPGRRTGPPM  
GSRFRDGPPLRGSNMDFREPT EEEAQRPRQLKPRTVATPLNQVANPNSAIFGGARPRE  
EVVQKEQE

>sp|P63241|IF5A1\_HUMAN Eukaryotic translation initiation factor 5A-1 OS=Homo sapiens  
GN=EIF5A PE=1 SV=2

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>sp|Q96M15|IFAS1\_HUMAN Putative uncharacterized protein IGF2BP2-AS1 OS=Homo sapiens  
GN=IGF2BP2-AS1 PE=2 SV=1

MATPLDNCLRPFPDPMVKVTAETKKI SEVSSYVSANNKNSFWGSGLLYPVALLRCQDCW

AGHQTHVLSKEFTSYFSSGAGREAHQPSAVLGSLIWLRRVYLLRAMVVHGGSQPCQRWL  
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>sp|P01568|IFN21\_HUMAN Interferon alpha-21 OS=Homo sapiens GN=IFNA21 PE=1 SV=2

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ACVIEVGVVEETPLMNVDSILAVKKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSKI  
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>sp|P01574|IFNB\_HUMAN Interferon beta OS=Homo sapiens GN=IFNB1 PE=1 SV=1

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IPEEIKQLQQFQKEDAAALTIYEMLNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLK  
TVLEEKLEKEDFTRGKLMSSHLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINR  
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>sp|K9M1U5|IFNL4\_HUMAN Interferon lambda-4 OS=Homo sapiens GN=IFNL4 PE=2 SV=1

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>sp|Q12894|IFRD2\_HUMAN Interferon-related developmental regulator 2 OS=Homo sapiens  
GN=IFRD2 PE=1 SV=3

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EFVYEDMEALCSVLRTLATDSNKYRAKADRRRQRSTFRAVLHSVEGGECEEEIVRFGFEV  
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>sp|Q9UHF5|IL17B\_HUMAN Interleukin-17B OS=Homo sapiens GN=IL17B PE=2 SV=1

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>sp|Q13007|IL24\_HUMAN Interleukin-24 OS=Homo sapiens GN=IL24 PE=1 SV=1

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>sp|P14784|IL2RB\_HUMAN Interleukin-2 receptor subunit beta OS=Homo sapiens GN=IL2RB PE=1  
SV=1

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DLVDFQPPPELVREAGEEVPDAGPREGVSFPWSRPPGQGEFRALNARLPLNTDAYLSLQ  
ELQGQDPHTLV

>sp|Q6ZMJ4|IL34\_HUMAN Interleukin-34 OS=Homo sapiens GN=IL34 PE=1 SV=1

MPRGFTWLRYLGIIFLGVALGNEPLEMWPLTQNEECTVTGFLRDKLQYRSRLQYMKHYFPI  
NYKISVPYEGVFRIANVTRLQRAQVSERELRYLWVLVLSLATESVQDVLLEGHPSWKYLQ  
EVETLLLNQQGLTDVEVSPKVESVLSLLNAPGPNLKLVRPKALLDNCFRVMELLYCSCC  
KQSSVLNWQDCEVPSPQSCSPEPSLQYAATQLYPPPPWSPSSPPHSTGSRVPVRAQGEGL  
LP

>sp|Q9NZH6|IL37\_HUMAN Interleukin-37 OS=Homo sapiens GN=IL37 PE=1 SV=1

MSFVGENSEGVKMGSEDEWKDEPQCCELDPAAGSPLEPGPSLPTMNFVHTSPKVKNLNPKKF  
SIHDQDQHKVVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPIILGVSKGEFCL  
YCDKDKGQSHPSLQLKKEKLMKLAQKESARRPFIFYRAQVGSWNMLESAAHPGWFICTS  
CNCNEPVGVTDFENRKHIEFSFQPVCKAEMSPSEVSD

>sp|P32927|IL3RB\_HUMAN Cytokine receptor common subunit beta OS=Homo sapiens GN=CSF2RB  
PE=1 SV=2

MVLAQGLLSMALLALCWERSLAGAEETIPLQTLRCYNDYTSHITCRWADTQDAQRLVNVT  
LIRRVNEDLLEPVSCDLSDMPWSACPHPRCVPRRCVIPCQSFVVTDVDYFSFQPDRLG  
TRLTVTLTQHVPPEPRDLQISTDQDHFLLTWSVALGSPQSHWLSPGDLEFEVVYKRLQD  
SWEDAAILLSNTSQATLGPEHLMPSSTYVARVTRLAPGSRLSGRPSKWSPEVCWDSQPG  
DEAQPQNLECFDGA AVLSCSWEVRKEVASSVSFGLFYKPSPDAGEEECSVLREGLGSL  
HTRHHCQIPVPDPATHGQYIVSVQPRRAEKHIKSSVNIQMAPPVSLNVTKDGSYSLRWET  
MKMRYEHIDHTFEIQYRKDTATWKDSKTETLQNAHSMALPALEPSTRYWARVRVTSRTG  
YNGIWESEWSEARSWDTESVLPMMWLALIVIFLTIAVLLALRFCGIYGYRLRRKWEKIPN  
PSKSHLFQNGSAELWPPGMSAFTSGSPPHQGPWGSRFPELEGVFPVGFQDSEVSPLTIE  
DPKHVCDPPSGPDTPAASDLPTAQPPSPQPGPPAASHTPEKQASSFDNFNGPYLGPPHSR  
SLPDILGQPEPPQEGGSQKSPPPGSLEYLCLPAGGQVQLVPLAQAMGPGQAVEVERRPSQ  
GAAGSPSLESGGPAPPALGPRVGGQDKDSPVAIPMSSGDTEDPGVASGYVSSADLVFT  
PNSGASSVSLVPSLGLPSDQTPSLCPGLASGPPGAPGVKSGFEGYVELPPIEGRSPRSP  
RNNVPPEAKSPVLNPGERPADVSTSPQPEGLLVQQVGDYCFPLPGLPGPLSLRSKPS  
SPGPGPEIKNLDAQFQVKKPPGQAVPVPIQLFKALKQQDYLSLPPWEVKNKPEVC

>sp|Q01113|IL9R\_HUMAN Interleukin-9 receptor OS=Homo sapiens GN=IL9R PE=2 SV=3

MGLGRCIWEGWTLSEALRRDMGTWLLACICICTCVCLGVSVTGEGQGPRSRFTFTCLTNN  
ILRIDCHWSAPELGQGSSPWLFTSNQAPGGTHKCILRGSECTVVLPEAVLVPSDNFTI  
TFHHCMSGREQVSLVDPEYLPRRHVKLDPPSDLQSNISSGHCILTWSISPALEPMTTLLS  
YELAFKKQEEAWEQAQRHDHIVGTWLILEAFELDPGFIHEARLRVQMATLEDDVVEEER  
YTGQWSEWSQPVCFQAPQRQGPLIPPWGWPNTLVAVSIFLLLTGPTYLLFKLSPRVKRI  
FYQNVPSPAMFFQPLYSVHNGNFQTMGAHGAGVLLSQDCAGTPQGALEPCVQEATALLT  
CGPARPWKSVALEEEQEGPGTRLPGNLSSDVLPACTEWRVQTLAYLPQEDWAPTSLTR  
PAPPDSEGRSSSSSSSSNNNNYCALGCYGGWHL SALPGNTQSSGPIPALACGLSCDHQG  
LETQQGVAVWLAGHCQRPLHEDLQGMLLPSVLSKARSWTF

>sp|P29218|IMPA1\_HUMAN Inositol monophosphatase 1 OS=Homo sapiens GN=IMPA1 PE=1 SV=1

MADPWQECMDYAVTLARQAGEVVCEAIKNEMNVMLKSSPVDLVTATDQKVEKMLISSIKE



KYPHSFIGEESVAAGEKSILTDNPTWIIDPIDGTTNFVHRFPFVAVSIGFAVNKKIEFG  
VVYSCVEGKMYTARKGKGAFcNGQKLQVSQQEDITKSLLVTELGSSTPETVRMVLSNME  
KLFCIPVHGIRSVGTAANVMCLVATGGADAYYEMGIHCWDVAGAGIIVTEAGGVLMDDVTG  
GPFDLMSRRVIAANNRILAERIAKEIQVIPLQRDDED

>sp|Q9BZV3|IMPG2\_HUMAN Interphotoreceptor matrix proteoglycan 2 OS=Homo sapiens GN=IMPG2  
PE=1 SV=3

MIMFPLFGKISLGILIFVLIIEGDFPSLTAQTYLSIEEIQEPKSAVSFLLPEESTDLSLAT  
KKKQPLDRRETERQWLIRRRRSILFPNGVKICPDESVAEAVANHVKYFKVRVCQEAWEA  
FRTFDRLPGREEYHYWMNLCEDGVTSIFEMGTNFSESVEHRSLIMKKLTyakETVSSSE  
LSSVPVPGDTSTLGDITLSPHPVEVDAYEGASESSLERPEESISNEIENVIEEATKPAGE  
QIAEFSIHLLGKQYREELQDSSSFHHQHLEEEFISEVENAFTGLPGYKEIRVLEFRSPKE  
NDSGVDVYYAVTFNGEAIISNTTWDLISLHSNKVENHGLVELDDKPTVVYTISNFRDYIAE  
TLQQNFLLGNSSLNPDPSLQLINVRGVLRHQTEDLVWNTQSSSLQATPSSILDNTFQAA  
WPSADESITSSIPPLDFSSGPPSATGRELWSESPLGDLVSTHKLAFPSKMGLSSSPEVLE  
VSSLTLHSVTPAVLQTLGPVASEERTSGSHLVEDGLANVEESEDFLSIDSLPSSSFTQPV  
PKETIPSMEDSDVSLTSSPYLTSSIPFGLDSLTSKVKDQLKVSPFLPDASMEKELIFDGG  
LGSGSGQKVDLITWPWSETSSEKSAEPLSKPWLEDDDSLPAEIEDKKLVLDKMDSTDQ  
ISKHSKYEHDDRSTHFPEEEPLSGPAVPIFADTAAESASLTLPKHISEVPGVDDYSVTKA  
PLILTSVAISASTDKSDQADAILREDMEQITESSNYEWFDESEVMVKPDMQTLWTILPES  
ERVWTRTSSELEKLSRDILASTPQSADRLWLSVTQSTKLPTTISTLLEDEVIMGVQDISL  
ELDRIGTDYYQPEQVQEENQKVGSYVEMSTSVHSTEMVSAWPTEGGDDLSTQTSGALV  
VFFSLRVTNMMFSEDLFNKNSLEYKALEQRFLELLVPYLSNLTFQNLILNFRNGSIV  
VNSRMKFANSVPPNVNAVYMILEDFTTAYNTMNLAIKYSLDVESGDEANPCKFQACN  
EFSECLVNPWSGEAKCRCFPGYLSVEERPCQSLCDLQPDFCLNDGKCDIMPGHGAICRCR  
VGENWWYRGKHCEEFVSEPVIIIGITIASVGLLVIFSAIIYFFIRTLQAHHDRSERESPF  
SGSSRPDSLSIENAVKYNPVYESHRAGCEKYEGPYPQHPFYSSASGDVIGGLSREEIR  
QMYESSELSREEIQERMVLELYANDPEFAAFVREQQVEEV

>sp|PODMQ5|INAM2\_HUMAN Putative transmembrane protein INAFM2 OS=Homo sapiens GN=INAFM2  
PE=2 SV=1

MKERDAAPAERGKPATYTGDKKAKMAAKTNKKWVRLATVFAYVLSVSLAAIVLAVYYSLI  
WQPVGAGTSGGAAGPPPGGSNATGPSGTSGAAAAGPNTTGSSRREAPRDVPPLQAARPAP  
PEPPADSPPAGPLERPRGPDEDEEETAAAPGSR

>sp|P17181|INAR1\_HUMAN Interferon alpha/beta receptor 1 OS=Homo sapiens GN=IFNAR1 PE=1  
SV=3

MMVLLGATTLVLVAVAPWVLSAAAGGKNLSPQKVEVDIIDDNFILRWNRSDSVGNVT  
FSFDYQKTGMNDWIKLSGCQNITSTKCNFSSLKLNVEEIKLRIRAEKENTSSWYEVDSF  
TPFRKAQIGPPEVHLEAEDKAIIVIHISPGTKDSVMWALDGLSFTYSLVIWKNSSGVEERI  
ENIYSRHKIYKLSPETTYCLKVKAALLTSWKIGVYSPVHCIKTTVENELPPPENIEVSVQ  
NQNYVLKWDYTYANMTFQVQWLHAFLLKRNPGNHLKWKQIPDCENVKTTQCVFPQNVFQK  
GIYLLRVQASDGNNTSFWSEEIKFDTEIQAFLLPVFNIRSLSDSFHIYIGAPKQSGNTP  
VIQDYPLIYEIIFWENTSNAERKIIIEKTDVTVPNLKPLTVYCVKARAHTMDEKLNKSSV  
FSDAVCEKTKPGNTSKIWLIVGICIALFALPFVIYAAKVFLRCINYVFFPSLKPSSSIDE  
YFSEQPLKNLLSTSEEQIEKCFIENISTIATVEETNQTDHKKYSSQTSQDSGNYSN  
EDESESKTSEELQQDFV

>sp|Q9NQS7|INCE\_HUMAN Inner centromere protein OS=Homo sapiens GN=INCENP PE=1 SV=3

MGTTAPGPIHLLLELDCQKLMEFLCNMDNKDLVWLEEIQEEAERMFTREFSKEPELMPKTP  
SQKNRRKKRRISYVQDENRDPIRRRLSRRKSRSQSSRLSRKDSVEKLATVVGENGSV  
LRRVTRAAAAAATMALAAPSSPTESPTMLTKKPEDNHTQCQLVPVVEIGISERQNAE  
QHVTQLMSTEPLPRTLSPTPASATAPTSQGIPSTDEESTPKKSKARILESITVSSLMATP  
QDPKGQGVGTGRSASKLRIAQVSPGPRDSPAFPDSPWRERVLAPILPDNFSTPTGSRTDS  
QSVRHSPFIAPSSPSQVLAQKYSVLAKQESVVRASRLAKKTAEPAASGRIICHSTYLE  
RLLNVEVPQKVGSEQKEPPEEAEPVAAAEPVPEPENNNGNNSWPHNDTEIANSTPNPKPAAS  
SPETPSAGQQEAKTDQADGPREPPQSARRKRSYKQAVSELDEEQHLEDEELQPPRSKTPS  
SPCASKVVRPLRTLHTVQRNQMLMTPTSAPRSVMKSFIKRNTPLRMDPKCSFVEKERQ  
RLENLRRKEEAELRRQKVEEDKRRRLEEVLKREERLRKVLQARERVEQMKEEKKKQIE  
QKFAQIDEKTEKAKEERLAEKAKKKAACKMEEVEARRKQEEEARRLRWLQEEEEERRH  
QELLQKKKEEQERLRKAAEAKRLAEQREQERREQERREQERREQERREQERREQERQLA  
EQERRREQERLQAERELQEREKALRLQKEQLQRELEEKKKKEEQRLAERQLQEEQEKKA  
KEAAGASKALNVTVDVQSPACTSYQMT PQGHRAPPKINPDNYGMDLNSDDSTDDEAHPRK  
PIPTWARGTPLSQAI IHQYYHPPNLELFGTILPLDLEDIFKKSKPRYHKRTSSAVWNSP  
PLQGARPSSLAISLKKH

>sp|Q9UNL4|ING4\_HUMAN Inhibitor of growth protein 4 OS=Homo sapiens GN=ING4 PE=1 SV=1

MAAGMYLEHYLDSIENLPFELQRNFQLMRDLQRTEDLKAEIDKLATEYMSSARSLSSEE  
KLALLKQIQEAYGCKEFGDDKVQLAMQTYEMVDKHIRRLDLDLARFEADLKEKQIESSD  
YDSSSSKGGKKGRQKEKKAARARSKGKNSDEEAPKTAQKKLKLVRTSPEYGMPSVTFGS  
VHPDVLDMVPDNEPTYCLCHQVSYGEMIGCDNPDCSIEWFHFACVGLTTKPRGKWFCP  
RCSQERKKK

>sp|Q8WYH8|ING5\_HUMAN Inhibitor of growth protein 5 OS=Homo sapiens GN=ING5 PE=1 SV=1

MATAMYLEHYLDSIENLPCELQRNFQLMRELDQRTEDKKAIEDILAAEYISTVKTLSPDQ  
RVERLQKIQNAYSCKKEYSDDKVQLAMQTYEMVDKHIRRLDADLARFEADLKDKMEGSDF  
ESSGGRGLKKGRGQKEKGRSGRGRRTSEEDTPKKKKHKGGSEFTDTILSVHPDVLDMVP  
VDNEPTYCLCHQVSYGEMIGCDNPDCPIEFWFHFACVDLTTKPKGKWFCPRCVQEKRKKK

>sp|P38484|INGR2\_HUMAN Interferon gamma receptor 2 OS=Homo sapiens GN=IFNGR2 PE=1 SV=2

MRPTLLWSLLLLGVFAAAAAAPPDPLSQLPAPQHPKIRLYNAEQVLSWEPVALSNSTRP  
VVYVQVQFKYTDKSWFTADIMSIGVNCTQITATECDFTAASPSAGFPMDFNVTLRLRAELG  
ALHSAWVTMPWFQHYRNVTVGPPENIEVTPGEGSLIIRFSSPFDIADTSTAFFCYVYVHYW  
EKGGIQVKGPFRRSNSISLDNLKPSRVYCLQVQAQLLWNKSNIFRVGHLSNISCYETMAD  
ASTELQQVILISVGTFSLLSVLAGACFFLVLYKRYGLIKYWFHTPPSIPLQIEEYLKDPTQ  
PILEALDKDSSPKDDVWDSVSIISFPEKEQEDVLQTL

>sp|Q9NV88|INT9\_HUMAN Integrator complex subunit 9 OS=Homo sapiens GN=INTS9 PE=1 SV=2

MKLYCLSGHPTLPCNVLFKSTTIMLDCGLDMTSTLNFLPLPLVQSPRLSNLPGWSLKDG  
NAFLDKELKECSGHVFVDSVPEFCLPETELIDLSTVDVILISNYHMMALPYITEHTGFT  
GTVYATEPTVQIGRLMEELVNFIERVPAQSASLWKNKDIQRLLPSPLKDAVEVSTWRR  
CYTMQEVNSALSKIQLVGYSQKIELFGAVQVTPSSGYALGSSNWIIQSHYEKVSIVSGS  
SLLTTHPQPMQASLKNSDVLVLTGLTQIPTANPDGMVGEFCSNLALTVRNGGNVLVPCY  
PSGVIYDLLECLYQYIDSAGLSSVPLYFISPVANSSLEFSQIFAEWLCHNKQSKVYLPEP  
PFPHAEIQTNKLKHYPYIHGDFSNDFRQPCVVFTGHPSLRFGDVVHFMEWGKSSLNTV  
IFTEPDFSYLEALAPYQPLAMKCIYCPIDTRLNFIQVSKLLKEVQPLHVVCPQYEQPPP

AQSHRMDLMIDCQPAMSYRRAEVLALPFKRRYEKIEIMPELADSLVPMEIKPGISLATV  
SAVLHTKDNKHLQPPRPAQPTSGKKRRVSDDPDCKVLKPLLSGSIPVEQFVQTLEK  
HGFSDIKVEDTAKGHIVLLQEAETLIQIEEDSTHICDNDMLRVRLRDLVLKFLQKF

>sp|Q86XH1|IQCA1\_HUMAN IQ and AAA domain-containing protein 1 OS=Homo sapiens GN=IQCA1  
PE=2 SV=1

MSNAMYNKMWHQTQEALGALLDKEPQKMIEPQRNQVFIQTLATFYVKYVQIFRNLENVY  
DQFVHPQKRILIRKVLGDGVMGRILELKEMVELELTFHYFDDILQDLKLAPQQLDIPI  
KYFLKEKLEVIKGREKILAQILADSGIDTSDMKYPVKSIPFDEAVKLIQIAERARQGRLR  
ALFMKQIYLQEYRAKQSKMLGKKVTDTWAAALRIQKVWRRFHQRKETEKLEEMIFLGM  
NPPPLFNEVSATVIAEKVDRLRNEVQIKHEEDYREALVTIKNDLKLIEGVDIKENLQDQ  
IRHWFIECRNLGTGFPDYPDVEEGSAIFSDKTIQQVIEDIIANQEEEEKNKKKKKKKE  
KQPKKAKKQKKGTEKNKEDEKWKMSPSLFLPAMKEGCNAYKEIWMKKDESWNFSQD  
PELIKKEKRKELQSEIRIQVDELMRQELKNLKLAVDRERERPVKAGKKDKKGGKGGKKE  
KKAKDKDLTADRTIESLYKELVEEGLLIQALKVNLSDYIGEYSYLGTTLRQVSIEMP  
PSLLDVRQLITLYGIWPLGSAVHEKAPLVKSLLLAGPSGVGKMLVHAICTETGANLFNLS  
SSNIAGKYPGKNGLQMMHLAVFKVARQLQPSVWIEDTEKTFYKKVPNAEKMNEPKRLKK  
HLPQILKLLKPDRLIVGTTRRPFDAELQSFCKVYQKIILVPRPDYASRYVLWKQIER  
NGGVLTSALNVSLAKVTDGFTQGHIVEVVKGVLTQQRIRRIHKPLTAVEFITAITSMN  
PVYKEEEESFKNWYAKTPLGKKRALAITGGSTEKAKDKGKRK

>sp|Q15051|IQCB1\_HUMAN IQ calmodulin-binding motif-containing protein 1 OS=Homo sapiens  
GN=IQCB1 PE=1 SV=1

MKPTGTDPRILSIAAEVAKSPEQNPVILLKLKEIINITPLGSSELKKIKQDIYCYDLIQ  
YCLLVLSQDYSRIQGGWTTISQLTQILSHCCVLEPGEDAEEFYNELLPAAENFLVLGR  
QLQTCFINAAKAEKDELLHFFQIVTDSLFWLLGGHVELIQNVLQSDHFLHLLQADNVQI  
GSAVMMMLQNILQINSGDLLRIGRKALYSILDEVIFKLFSTPSPVIRSTATKLLLLMAES  
HQEILILLRQSTCYGLRRLLSKQETGTEFSQELRQLVGLSPMVYQEVVEEQLHQAACL  
IQAYWKGFGTRKRLKKLPSAVIALQRSFRSKRSKMILLEINRQKEEDLKLQLQLQRGRAM  
RLSRELQLSMLEIVHPGQVEKHYREMEEKSALIIQKHWRGYRERKNFHQQRQSLIEYKAA  
VTLQRAALKFLAKCRKKKLFAPWRGLQELTDARRVELKKRVDDYVRRHLGSPMSDVVSR  
ELHAQAQERLQHYFMGRALERAQQHREALIAQISTNVEQLMKAPSLKEAEGKEPELFLS  
RSRPVAAKAKQAHLTTLKHIQAPWKKLGEESGDEIDVPKDELSIELENLFIGGTPP

>sp|POC7M6|IQCF3\_HUMAN IQ domain-containing protein F3 OS=Homo sapiens GN=IQCF3 PE=2 SV=1

MGSKCKGGPDEDAVERQRRQKLLLAQLHHRKRVKAAGQIQAWWRGVLVRRTLVAALRA  
WMIQCWWRTLVRRIQRRQALLRVYVIEQATVKLQSCIRMWQCRQCYRQMCNALCLFQ  
VPESLAFQTDGFLQVQYAIPSKQPEFHIEILSI

>sp|Q9H095|IQCG\_HUMAN IQ domain-containing protein G OS=Homo sapiens GN=IQCG PE=1 SV=1

MEEDSLEDNLPPKVHSEMTVSVTGEPPSTVEEEGIPKETDIEIPEIPETLEPLSLPD  
VLRISAVLEDTTDQLSILNYIMPVQYEGRQSIQVKSREMNLGNTLNDKLPMASTITKIPS  
PLITEEGPNLPEIRHRGFAVEFNKMQDLVFKKPTRQTIMTTETLKKIQIDRQFFSDVIA  
DTIKELQDSATYNSLLQALSKERENKMHFYDIIAREEKGRKQIISLQKQLINVKKQWQFE  
VQSQNEYIANLKDQLQEMKAKSNLENRYMKTNTTELQIAQTQKKCNRTTEELLVEEIEKL  
RMKTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMKQNELNALKATKASDLAHLQ  
DLAKMIREYEQVIEDRIEKERSKKKVKQDLLELKSIVIKLQAWWRGTMIRREIGGFKMPK  
DKVDSKDSKGGKGGKDKRRGKKK

>sp|Q6DN90|IQEC1\_HUMAN IQ motif and SEC7 domain-containing protein 1 OS=Homo sapiens  
GN=IQSEC1 PE=1 SV=1

MWCLHCNSERTQSLELELDSGVEGEAPSSSETGTSLDSPSAYPQGGLVPGSSSLSPDHYE  
TSVGAYGLYSGPPGQQQRTRRPKLQHSTSLRKQAEAAIKRSRSLSESYELSSDLQDKQ  
VEMLERKYGGRLVTRHAARTIQTAFRQYQMNKNFERLRSSMSSENRRIVLSNMRMQFS  
FEGPEKVHSSYFEGKQVSVTNDGSQGLGALVSPECGLDSEPTTLKSPAPSSDFADAITELE  
DAFSRQVKSLAESIDDALNCRSLHTEEPALDAARARDTEPQTALHGMMDHRKLDENTASY  
SDVTLYIDEEELSPPLPLSQAGDRPSSSTESDLRLRAGGAAPDYWALAHKEDKADTDTSR  
STPSLERQEQRRLRVEHLPLLTIEPPSDSSVDLSDRSERGSLKRQSAYERSLGGQQGSPKH  
GPHSGAPKSLPREPELRPRPPRLDShLAINGSANRQSKSESDYSDGDNDINSNSNSN  
DTINCSSESSSRDSLREQTLQKQTYHKEARNSWDSPAFSNDVIRKRHYRIGLNLFNKKPE  
KGVQYLIERGFPDTPVGVAFLLQKGLSRQMIGEFLGNRQKQFNRDVLDVVDMDFS  
TMELDEALRKQFAHVRVQGEAQKVERLIEAFSQRYCICNPGVVRQFRNPDTIFILAFI  
LLNTDMYSPNVKPERKMKLEDFIKNLRGVDDGEDIPREMLMGIYERIRKRELKTNEDHVS  
QVQKVEKLI VGGKPIGSLHPGLGCVLSLPHRRLVCYCRLFVDPDPNKPQKLGLHQREIFL  
FNDLLVVTIKIFQKKKNSVTYSFRQSFSLYGMQVLLFENQYYPNGIRLTSSVPGADIKVLI  
NFNAPNPQDRKKFTDDLRESIAEVQEMEKHRIESELEKQKGVVRPSMSQCSSLKKEGNG  
TLRACLDDSYASGEGLKRSALSSSLRDLSEAGKRGRSSAGSLESNVEFQPFEPQLQPSV  
LCS

>sp|Q86VI3|IQGA3\_HUMAN Ras GTPase-activating-like protein IQGAP3 OS=Homo sapiens  
GN=IQGAP3 PE=1 SV=2

MERRAAGPGWAAYERLTAEEMDEQRRQNVAYQYLCRLEEAKRWMEACLKEELPSPVELEE  
SLRNGVLLAKLGHCFAFSVVPKKIYDVEQLRYQATGLHFRHTDNINFWLSAIAHIGLPS  
TFFPETTDIYDKKNMPRVVYCIHALSLFLFRLGLAPQIHDLYGKVKFTAEELSNMASELA  
KYGLQLPAFSKIGGILANELSVDEAAVHAVALINEAVERGVVEDTLAALQNPSALLENL  
REPLAAVYQEMLAQAKMEKAANARNHDDRESQDIYDHYLTAQEIQGNINHVNVHGALEV  
DDALERQSPEALLKALQDPALALRGVRRDFADWYLEQLNSDREQKAQELGLVELLEKEEV  
QAGVAAANTKGDQEQAMLHAVQRINKAIRRRVAADTVKELMCPEAQLPPVYPVASSMYQL  
ELAVLQQQGGELGQEELFVAVEMLSAVVLINRALEARDASGFWSSLVNPATGLAEVEGEN  
AQRYFDALLKLQERGMGEDFLSWNDLQATVSQVNAQTQEETDRVLAVSLINEALDKGSP  
EKTLSALLPAAGLDDVSLPVAPRYHLLVAAKRQKAQVTGDPGAVLWLEEIRQGVVRAN  
QDTNTAQRMALGVAAINQAIKEGKAAQTERVLRNPAVALRGVVPDCANGYQRALESAMAK  
KQRPADTAFWVQHMDKGTAYYFHLQTFQGIWEQPPGCPLNTSHLTREEIQSAVTKVTAA  
YDRQQLWKANVGFIQLQARLRGFLVRQKFAEHSFLRTWLPVAVIKIQAHWGRYQRKIY  
LEWLQYFKANLDI I KIQAWARMWAARRQYLRLHYFQKNVNSIVKIQAFFRARKAQDDY  
RILVHAPHPPLSVVRRFAHLLNQSQQDFLAEALLKLQEEVVRKIRSNQQLEQDLNIMDI  
KIGLLVKNRITLQEVVSHCKKLTNRNKEQLSDMMVLDKQKGLKSLSKEKRQKLEAYQH  
YLLQTQPIYLAKLIFQMPQNKTTFMEAVIFSLYNYASSRREAYLLLQLFKTALQEEIKS  
KVEQPQDVVTGNPTVVRLVVRFYRNGRGQSALQEILGKVIQDVLEDKVLSVHTDPVHLYK  
NWINQTEAQTGQRSHLPYDVTPEQALSHPEVQRRDLIALRNLLAMTDKFLLAITSSVDQI  
PYGMRVYAKVLKATLAEKFPDATDSEVYKVVGNLLYYRFLNPAVVAPDAFDIVAMAAGGA  
LAAPQRHALGAVAQLLQHAAGKAFSGQSQHLRVLNDYLEETHLKFRKFIRACQVPEPE  
ERFAVDEYSMDVAVAKPMVYITVGELVNTHRLLEHQDCIAPDHQDPLHELLEDLGELPT  
IPDLIGESIAADGHTDLKLEVSLLTNKFEGLEADADDNTRSLLLSTKQLLADIIQFH

PGDTLKEILSLSASREQEAHKLMSRRQACTAQTPEPLRRHRSHTAHSLLPLAEKQRRV  
LRNLRRLLEALGLVSARNGYQGLVDELAKDIRNQHRHRHRRKAELVKLQATLQGLSTKTTF  
YEEQGDYYSQYIRACLDHLAPDSKSSGKGKKQPSLHYTAAQLLEKGVLEIEDLPASHFR  
NVIFDITPGDEAGKFEVNAKFLGVDMERFQLHYQDLLQLQYEGVAVMKLFNKAKVNVNLL  
IFLLNKKFLRK

>sp|P10914|IRF1\_HUMAN Interferon regulatory factor 1 OS=Homo sapiens GN=IRF1 PE=1 SV=2  
MPITRMRMRPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAACHGWDINKDACLFRSWAI  
HTGRYKAGEKEPDPTWKANFRCAMNSLPDIEEVKDQSRNKGSSAVRVYRMLPPLTKNQR  
KERKSKSSRDAKSKAKRKSCGDSSPDTFSDGLSSSTLPDDHSSYTPGYMQDLEVEQALT  
PALSPCAVSSSTLPDWHIPVEVVPDSTSDLYNFQVSPMPSTSEATTDEDEEGKLPEDIMKL  
LEQSEWQPTNVDGKGYYLLNEPGVQPTSVYGDFFSCKEPEIDSPGGDIGLSLQRVFTDLKN  
MDATWLDLSLLTPVRLPSIQAIPCAP

>sp|Q14653|IRF3\_HUMAN Interferon regulatory factor 3 OS=Homo sapiens GN=IRF3 PE=1 SV=1  
MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEA  
TGAYVPGRDKPDLPWKRNFRSALNRKEGLRLAEDRSKDPHPHKIYEFVNSGVGDFSQP  
DTSPDTNGGGSTSDTQEDILDELLGNMVLAPLPDPGPPSLAVAPEPCPQLRSPSLDNPT  
PFPNLGPSENPLKRLLVPGEEWEFEVTAIFYRGRQVFQQTISCPEGLRLVGSEVGDRTLPG  
WPVTLPDPGMSLTDRGVMSYVRHVLSCGGGLALWRAGQWLWAQRLGHCHTYWAVSEELL  
PNSGHGPDGEVPKDEKGGVFDLGPFIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTK  
RLVMVKVVP TCLRALVEMARVGGASSLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMD  
FQGPGES

>sp|Q92985|IRF7\_HUMAN Interferon regulatory factor 7 OS=Homo sapiens GN=IRF7 PE=1 SV=2  
MALAPERAAPRVLFGEWLLGEISSGCEGLQWLDEARTCFRVPWKHFARKDLSEADARIF  
KAWAVARGRWPPSSRGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHK  
VYALSREL CWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTAGLQAPGPLPAPAGDKG  
DLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGPLTGACAGGPGLPAGELYGWAV  
ETTPSPGPQPAALTTGEEAAPESPHQAEPYLSPPSPSACTAVQEPSGALDVTIMYKGRTV  
LQKVVGHPSCFTLYGPPDPAVRATDPQQAFAFSPAELPDQKQLRYTEELLRHVAPGLHLE  
LRGPQLWARRMGCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFRAR  
QRRGSPRYTIYLGFGQDLSAGRPKESLVLVKLEPWLCRVHLEGTQREGVSSLDSSSLSL  
CLSSANSLYDDIECFLELEQPA

>sp|Q9Y4H2|IRS2\_HUMAN Insulin receptor substrate 2 OS=Homo sapiens GN=IRS2 PE=1 SV=2  
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TAGGGSAPQPPRLEYESEKKWRSKAGAPKRVIALLDCCLNINKRADAKHYLIALLYTKDE  
YFAVAAENEQE QEGWYRALTDLVSEGRAAGDAPPAAPAAASCSASLPGALGGSAGAAGA  
EDSYGLVAPATAAYREVWQVNLKPKGLGQSKNLTGVYRLCLSARTIGFVKLNCEQPSVTL  
QLMNIRRCGHSDSFFFIEVGRSAVTGPGELWMQADDSVVAQNIHETILEAMKALKELFEF  
RPRSKSQSSGSSATHPI SVPGARRHHHLVNLPPSQTGLVRRSRTDSLAATPPAAKCSSCR  
VRTASEGDGGAAGAAAAGARPVS VAGSPLSPGPVRAPLRSHTLSGGCGGRGSKVALLP  
AGGALQHSRSMMPVAHSPAATSPGSLSSSSGHSGSYPPPPGPHPLPHPLHHGPGQR  
PSSGSASASGSPSDPGFMSLDEYGSSPGDLRAFCSHRSNTPEIAETPPARDGGGGGEFY  
GYMTMDRPLSHCGRSYRRVSGDAAQDLDRGLRKRTYSLTTPARQRPVPQPSSASLDEYTL  
MRATFSGSAGRLCPSCPASSPKVAYHPYPEDYGDIEIGSHRSSSSNLGADDGYMPMTPGA  
ALAGSGSGSCRSDDYMPMPASVSAPKQILQPRAAAAAAAVPSAGPAGPAPTSAGRTF

PASGGGYKASSPAESSPEDSGYMRMWCGSKLSMEHADGKLLPNGDYLVNPSDAVTTGTP  
PDFFSAAALHPGGEPLRGVPGCCYSSLPRSYKAPYTCGGDSQYVLMSSPVGRILEEERLE  
PQATPGPSQAASAFGAGPTQPPHPVVPSPVRPSGGRPEGFLGQRGRAVRPTRLGLEGLPS  
LPSMHEYPLPPEPKSPGEYINIDFGEPEGARLSPPAPLLASAASSSSLLSASSPASSLGS  
GTPGTSSDSRQRSPLSDYMNLDFFSPKSPKPGAPSGHPVGSLDGLLSPEASSPYPLPPR  
PSASPSSSLQPPPPPPAPGELYRLPPASAVATAQGPAASSLSSDTGDNNGDYTEMAFGVA  
ATPPQPIAAPPKPEAARVASPTSGVKRLSLMEQVSGVEAFLQASQPPDPHRGAKVIRADP  
QGGRRRHSSSETFSSTTTVTVPSPSFAHNPKRHNSASVENVSLRKSSEGGVGVGPGGGDEP  
PTSPRQLQAPPLAPQGRPWTPGQPGGLVGCPCGSGGSPMRRETSAGFQNGLYIAIDVRE  
EPGLPPQPQPPPPPLPQPGDKSSWGRTRSLGGLISAVGVGSTGGGCGGPGPGALPPANTY  
ASIDFLSHHLKEATIVKE

>sp|P78414|IRX1\_HUMAN Iroquois-class homeodomain protein IRX-1 OS=Homo sapiens GN=IRX1  
PE=2 SV=3

MSFPQLGYPQYLSAAGPGAYGGERPGVLAASAAAAAASSGRPGAELGGGAGAAAVTSV  
LGMYAAAGPYAGAPNYS AFLPYAADLSLFSQMSQYELKDNPGVHPATFAAHTAPAYYPY  
GQFYQYDGPGRPKNATRESTSTLKAWLNEHRKNPYPTKGEKIMLAIITKMTLTQVSTWFAN  
ARRRLKKENKVTWGARSKDQEDGALFGSDTEGDPEKAEDDEEIDLESIDIDKIDEHDGDQ  
SNEDDEDKAEAPHAPAAPSALARDQGSPLAAADVLPQDSPLGLAKEAPEPGSTRLLSPG  
AAAGGLQGAPHGKPKIWSLAETATSPDGAPKASPPPPAGHPGAHGPSAGAPLQHPAFLPS  
HGLYTCHIGKFSNWTNSAFLAQGSLLNMRSFLGVGAPHAAPHGPHLPAPPPPPPPVAIAP  
GALNGDKASVRSSPTLPERDLVPRPDSPAQQQLKSPFQPVDRNSLAPQEGTPRILAALPSA

>sp|Q9BUE6|ISCA1\_HUMAN Iron-sulfur cluster assembly 1 homolog, mitochondrial OS=Homo  
sapiens GN=ISCA1 PE=1 SV=1

MSASLVRATVRAVSKRKLQPTRAAALTPSAVNKIKQLLDKPEHVGKVGVRTRGCNGL  
SYTLEYTKTKGDSDEEVIQDGVRFIEKKAQLTLLGTEM DYVEDKLSSEFVFNNPNIKGT  
CGCGESFNI

>sp|Q86T24|KAISO\_HUMAN Transcriptional regulator Kaiso OS=Homo sapiens GN=ZBTB33 PE=1  
SV=2

MESRKLISATDIQYSGSLLNSLNEQRGHGLFCDVTVIVEDRKFRHKNILSASSTYFHQL  
FSVAGQVVELSFIRAEIFAEILNYIYSSKIVRVRSDDLDELKSGQLLGVKFIAELGVPL  
SQVKSISGTAQDGNTEPLPPDSGDKNLVIQKSKDEAQDNGATIMPIITESFSLSAEDYEM  
KKIIVTSDDDDDDDVIFCSEILPTKETLPSNNTVAQVQSNPGVAISDVAPSASNNSPPL  
TNITPTQKLPTPVNQATLSQTQGSEKLLVSSAPTHLTPNIILLNQTPLSTPPNVSSSLPN  
HMPSSINLLVQNQQTPNSAILTGKANE EEEEEIIDDDDDTISSSPDSAVSNTSLVPQAD  
TSQNTSFDGSLIQKMQIPTLLQEPLSNLSKISDIITRNTNDPGVGSKHLMEGQKIITLDT  
ATEIEGLSTGCKVYANIGEDTYDIVIPVKDDPDEGEARLENEIPKTSGSEMANKRMKVKH  
DDHYELIVDGRVYYICIVCKRSYVCLTSRRHFNIHSWEKKYPCRYCEKVFPLAEYRTKH  
EIHHTGERRYQLACGKSFINYQFMSSHIKSVHSQDPSGDSKLYRLHPCRSLQIRQYAYL  
SDRSSTIPAMKDDGIGYKVDTGKEPPVGTTTSTQNKPMTWEDIFIQQENDSIFKQNVTDG  
STEFEFIIPESY

>sp|P23352|KALM\_HUMAN Anosmin-1 OS=Homo sapiens GN=ANOS1 PE=1 SV=3

MVPGVPGAVLTLCLWLAASSGCLAAGPGAAAARRLDESLSAGSVQRARCASRCLSLQITR  
ISAFFQHFNNGSLVWCQNHKQCSKCLEPCKESGDLRKHQCQSFCEPLFPKKS YECLTSC  
EFLKYILLVKQGDCAPEKASGFAAACVESCEVDNECSGVKKCCSNGCGHTCQVPKTLTK

GVPLKPRKELRFTQLSGQLEVKWSSKFNISIEPVIYVVQRRWNYGIHPSEDDATHWQTV  
AQTDERVQLTDIRPSRWYQFRVA AVNVHGTGRGFTAPSKHFRSSKDPSAPPAPANLRLAN  
STVNSDGSVTVTIVWDLPEEPDIPVHHYKVFWSWMVSSKSLVPTKKKRRKTTDGFQNSVI  
LEKLQPCDYVVELQAITYWGQTRLKSAKVS LHFTSTHATNNKEQLVKTRKGGIQTQLPF  
QRRRPTRPLEVGAPFYQDQQLQVKVYWKKTEDPTVNRVHVRWFPEACAHNRTTGSEASSG  
MTHENYIILQDLSFSCYKVTVPQPIRPSKSHKAEAVFFTPPCSALKGKSHKPVGCLGEA  
GHVLSKVLAKPENLSASFIVQDVNITGHFSWKMAKANLYQPMTGQVTWAEVTTESRQNS  
LPNSIISQSQILPSDHYVLTVPNLRPSTLYRLEVQVLTGGEGPATIKTFRTPELPPSSA  
HRSHLKHRRHPHHYKPSPERY

>sp|Q6NY19|KANK3\_HUMAN KN motif and ankyrin repeat domain-containing protein 3 OS=Homo  
sapiens GN=KANK3 PE=1 SV=1

MAKFALNQNLPDLGGPRLCPVPAAGGARSPSPYSVETPYGFHLDLDFLKYIEELERGA  
ARRAPGPPTSRRPRAPRPLAGARSPGAWTSSES LASDDGGAPGILSQGAPSGLLMQPLS  
PRAPVRNPRVEHTLRETSRRLELAQTHERAPSPGRGVPRSPRSGRSPAPNLAPASPGP  
AQLQLVREQMAAALRRLRELEDQARTLPELQEQVRALRAEKARLLAGRAQPEPDGEAETR  
PDKLAQLRRLTERLATSERGGRARASPRADSPDGLAAGRSEGALQVLDGEVGS LDGTPQT  
REVA AEAVPETREAGAAQVPETREAGVEAAPETVEADAWTEALLGLPAAAERELELLRA  
SLEHQRGVSELLRGRLRELEEAREAAEEAAAAGARAQLREATTQTPWSCAEKAAQTESPAE  
APSLTQESSPGSMDGRAVAPAGILKSIMKKRDGTPGAQPSSGPKSLQFVGV LNGEYESS  
SSEDASDSGDSENGGAEPGSSSGSDSGGSDSGTPGPPSGGDIRDPEPEAEAEPPQQ  
VAQGRCELSRLREACVALQRQLSRPRGVASDGGAVRLVAQEWFRVSSQRRSQAEPVARM  
LEGVRRLLGPELLAHVVNLADGNNTALHYSVSHGNLAIASLLLDTGACEVNRQNRAGYSA  
LMLAALTSVRQEEEDMAVVQRLFCMGDVNAKASQTGTALMLAISHGRQDMVATLLACGA  
DVNAQDADGATALMCASEYGRLDTVRLLLTQPGCDPAILDNEGTSALAI AEAEQDEVAA  
LLHAHLSSGQPDQTQAGVQRHNLSLQPPPPRFKKFSCLSLPSSWDYNSCEPSRLAQLTIF

>sp|Q5T7N3|KANK4\_HUMAN KN motif and ankyrin repeat domain-containing protein 4 OS=Homo  
sapiens GN=KANK4 PE=2 SV=1

MEKTDKADQSSQGDEEKDPKSHPYSVETPYGFHLDLDFLKYVDDIEKGNTIKRIPIHRR  
AKQAKFSTLPRNFSLPDSGARPPAAPPLQNWSPVVPREASLTQEQQNSPPLGNAPQAST  
SRSEVS YHRKALLAEATRQLEAAEPEDAELTFGSGRPQLLRASSMPATLLHSRASEEPGL  
SLGPPAPPALPPLQGEGSVCDGTFEPAEGLAGFHSSSPRASTRIPELVQEGAEPPEGVVK  
VPNHLPLPGPPFSFQNVLVLEDKEDEHNAREAEVLFTPGSPTSPPPPLPSPIPENELLL  
EEIELNISEIPPPPPVEVDMRSIGIRVTEESLGLARVDPGSISSLKQQVSALEGELSGRT  
EELAQVRTALQQQEEEIKAREQRIRELEFTVAQLEGQFHQENAKDTQGQTDVMVNTDPVH  
GLLTRESCDKGIEVNLLGSMESWGHGEENGLLWGPDGHKQGNQSPAERVLLPQLSLP  
QGPEQVLTSSVHSFLSTELRIEEAGTEQEGGPQGGTRGAGGFLWGS DRKTPPAGREETSS  
NLPGKEHPGRPPSSPTDATIGQYVKKIQELLQEQQWNCLEHGYPELASAIKQPASKLSSIQ  
SQLLSSNLNLLSAYSAQAHPKPEPPASSSSPPVEISPSTSLKSIMKKKDYGFRAGNGTK  
KNLQFVGVNNGGYETTSSEETSGEDSTPEDLSDSEAEKKCDGPDHKHVKDAHLTCEAGQGI  
PEGTCHAAQESGPGEVPHSKAERYKPSEEFNLACRALSQHLPETGTTDQLLRQSLNTI  
SQEWFVRVSSRKSSSPAVVASYLHEVQPHSPHFLKLLVNADHNGNTALHYSVSHSNFSIV  
KLLLETGVCNVDHQNKAGYTAVMITPLASAETNEDMAVVWKLLREGNVNIQATQGGQTAL  
MLGVSHDREDMVQALLSCQADVNLDHGDSSALMVACHHGNDLVRLLLAHPACDSSLTD  
KAGRTALSIALKSPTHMEIAGLLRAHAEQGRSLGL

>sp|Q92794|KAT6A\_HUMAN Histone acetyltransferase KAT6A OS=Homo sapiens GN=KAT6A PE=1 SV=2

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LKVSNKGLNSYKDPDNPGRIALPKPRNHGKLDNKQNV DWNKLIKRAVEGLAESGGSTLKS  
IERFLKGQKDVSA LFSGSAASGFHQQLRLAIKRAIGHGRLLKDGPLYRLNTKATNVDGKE  
SCESLSCLPPVSLLPHEKDKPVAEPIPICSFCLGTKEQNREKKPEELISCADCGNSGHPS  
CLKFSPELTVRVKALRWQCIECKTCSSCRDQGKNADNMLFCDSCDRGFHMECCDPPLTRM  
PKGMWICQICRPRKKGRKLLQKKAQIKRRYTNPIGRPKNRLKKQNTVSKGPF SKVRTGP  
GRGRKRKITLSSQSASSSSEEGYLERIDGLDFCRDSNVSLKFNNKTKGLIDGLTKFFTPS  
PDGRKARGEVDYSEQYRIRKGRNRKSSSTDWPTDNQDGDGKQENEERLFGSQEIMTEK  
DMELFRDIQEALQKVGVTGPPDPQVRCPSVIEFGKYEIHTWYSSPYPQEYSRLPKLYLC  
EFCLKYMKSRITLQQHMKCGWFHPANEIYRKNNISVFEVDGNVSTIYCQNLCLLAKLF  
LDHKTLYYDVEPFLFYVLTQNDVKGCHLVGYFSKEKHCQKYNVSCIMILPQYQRKGYGR  
FLIDFSYLLSKREGQAGSPEKPLSDLGRLSY MAYWKS VILECLYHQNDKQISIKLSKLT  
GICPQDITSTLHHLRMLDFRSDQFVIIRREKLIQDHMAKLQLNLRPVDVDPECLRWTPVI  
VSNSVSEEEEEEAEEGENEEPQCQERELEISVGKSVSHENKEQDSYSVESEKKPEVMAP  
VSSTRLSKQVLPHDSL PANSQPSRRGRWGRKNRKTQERFGDKDSKLLLEETSSAPQEYQY  
ECGEKSEATQEYTESEEQLVASEEQPSQDGKPDLPKRRLSEGVEPWGQLKKSPEALKC  
RLTEGSERLPRRYSEGDRAVLRGFSESESESESESESESESESESESESESESESESESE  
RRVRKRKHHNSSVVTETISETTEVLDEPFEDSDSERPMPRLEPTFEIDEEEEEDENELF  
PREYFRRLSSQDVLRCQSSSKRKSDEEEDEESDDADDTPILKPVSLLRKRDVKNSPLEP  
DTSTPLKKKKGWPKGSRKPIHKKRPGRKPGFKLSREIMPVSTQACVIEPIVSIPKAGR  
KPKIQESEETVEPKEDMPLPEERKEEEMQAEAEAEAEEGEEEDAASSEVPAASPADSSNS  
PETETKEPEVEEEEEKPRVSEEQRQSEEEQEELEPEPEEEEEAAAETAQNDDHDADDED  
DGHLESTKKKELEEQPTREDVKEEPGVQESFLDANMQKSREKIKDKEETELDSEEEQPSH  
DTSVSEQMAGSEDDHEEDSHTKEELIELKEEEI PHSELDLETQAVQSLTQEESEHE  
GAYQDCEETLAACQTLQSYTQADEDPQMSMVEDCHASEHNSPISVQSHPSQSVRVSSP  
NVALESGYTQISPEQGSLSAPSMQNMTSPMMDVPSVSDHSQQVVD SGFSDLGSIESTT  
ENYENPSSYDSTMGSGICGNSSSQSSCSYGLSSSSSLTQSSCVVTQMASMGSSCSMMQ  
QSSVQPAANCSIKSPQSCVVERPPSNQQQPPPPPPQPPPPQPPAPQPPPPQQQPQ  
QQPQPQPQPPPPPPPPQQQPPLSQCSMNNSFTAPMIMEIPESGSTGNIS IYERIPGDFG  
AGSYSQPSATFSLAKLQQLTNTIMDPHAMPYSHSPAVTSYATSVSLNTGLAQLAPSHPL  
AGTPQAQATMTPPPNLASTTMNLTSPLLQCNM SATNIGIPHTQRLQGQMPVKGHISIRSK  
SAPLPSAAAHQQQLYGRSPSAVAMQAGPRALAVQRGMNMGVNLMPTPAYNVNSMNMNTLN  
AMNSYRMTQPMMNSSYHSNPAYMNQTAQYPMQMGMGMSQAYTQQPMQPNPHGNMMYTG  
PSHHSYMNAAGVPKQSLNGPYMRR

>sp|Q9BW62|KATL1\_HUMAN Katanin p60 ATPase-containing subunit A-like 1 OS=Homo sapiens  
GN=KATNAL1 PE=1 SV=1

MNLAEICDNAKKGREYALLGNYDSSMVYYQGVMMQIQRHCSVRDPAIKGKWQVVRQELL  
EYEQVKSIVSTLESFKIDKPPDFPVSCQDEPFRDPAVWPPVPAEHRAPPQIRRPNREV  
RPLRKEMAGVGARGPVGRAHPISKSEKPSTSRDKDYRARGRDDKGRKNMQDGASDGEMPK  
FDGAGYDKDLVEALERDIVSRNPSIHWDIADLEEAKLLREAVVLPWMPDFFKGIRRP  
WKGVL MVGPPGTGKTMLAKAVATECGTTFNVSSSTLTSKYRGESEKLVRLLFEMARFYA  
PTTIFIDEIDSICSRRTSDEHEASRRVKSELLIQMDGVGGALENDPSKMVMVLAATNF  
PWDIDEALRRRLEKRIYIPLTAKGRAELLKINLREVELDPDIQLEDIAEKIEGYSGADI



TNVCRDASLMAMRRRINGLSPEEIRALSKEELQMPVTKGDFELALKKIAKSVSAADLEKY  
EKWMVEFGSA

>sp|Q9NYR9|KBRS2\_HUMAN NF-kappa-B inhibitor-interacting Ras-like protein 2 OS=Homo sapiens GN=NKIRAS2 PE=1 SV=1

MGKSCKVVVCGQASVGKTSILEQLLYGNHVVGSEMIETQEDIYVGSJETDRGVREQVRFY  
DTRGLRDGAELPRHCFSCDTGYVLVYSTDSRESFQRVELLKKEIDKSKDKKEVTIVVLGN  
KCDLQEQRRVDPDVAQHWAQSEKVKLWEVSVADRRSLLEPFVYLASKMTQPQSKSAFPLS  
RKNKGSGLDG

>sp|Q8NAB2|KBTB3\_HUMAN Kelch repeat and BTB domain-containing protein 3 OS=Homo sapiens GN=KBTBD3 PE=2 SV=2

MDNSYAFNQRSTCNGIPSEKKNFLVSEDHGQKILSVLQNFREQNVFYDFKIIMKDEIIP  
CHRCVLAACSDFFRAMFEVNMKERDDGSVTITNLSSKAVKAFLDYAYTGKTKITDDNVEM  
FFQLSSFLQVSFLSKACSDFLIKSINLVNCLQLLSISDSYGSTSLFDHALHFVQHHSLL  
FKSSDFLEMNFGVLQKCLESEDELNPPEEMVLKVVLSTKHNLSESRQKYLPHLIEKVR LH  
QLSEETLQDCLFNEESLLKSTNCFDIIMDAIKCVQSGGLFPDARPSTTEKYIFIHKTEE  
NGENQYTFCYNIKSDSWKILPQSHLIDLPGSSLSSYGEKIFLTGGCKGKCCRTVRLHIAE  
SYHDATDQTCYCPVKNDFFLVSTMTKTPRTMHTSVMALDRLFVIGGKTRGSRDIKSLLDV  
ESYNPLSKEWISVSPLRGIYYPEASTCQNVIIYVLGSEVEITDAFNPSLDCFFKYNATTD  
QWSELVAEFGQFFHATLIKAVPVNCTLYICDLSTYKVYSFCPDTCVWKEGGSFECAGFNA  
GAIGIEDKIYILGGDYAPDEITDEVQVYHSNRSEWEEVSPMPRALTEFYCQVIQFNKYRD  
PWFSNLCA

>sp|Q9NVX7|KBTB4\_HUMAN Kelch repeat and BTB domain-containing protein 4 OS=Homo sapiens GN=KBTBD4 PE=1 SV=3

MESPEEPGASMDENYFVNYTFKDRSHSGRVAQGIMKLCLEELFADVTISVEGREFQLHR  
LVLSAQSCFFRSMFTSNLKEAHNRVIVLQDVSESVFQLLDYIYHGTVKLRAEELQEIYE  
VSDMYQLTSLFEESRFLARTVQVGNCLQVMWLADRHSDPELYTAAKHCAKTHLAQLQNT  
EEFLHLPRLTLDIISDGVPCSQNPTEAIEAWINFNKEEREAFASLRTSLKEIGENVHI  
YLIGKESSRTHSLAVSLHCAEDDISVSGQNSLCHQITAACKHGGDLVYVGGSIIPRMWK  
CNNATVDWEWCAPLPRDRLQHTLVSVPGKDAIYSLGGKTLQDTLSNAVIIYRVGDNVWTE  
TTQLEVAVSGAAGANLNGIIYLLGGEENDLDFFTKPSRLIQCFDTETDKCHVKPYVLPFA  
GRMHAAVHKDLVFIVAEGDSLVCYNPLLDSFTRLCLPEAWSSAPSLWKIASCNGSIYVFR  
DRYKKGDANTYKLDPATSAVTVTRGIKVLLTNLQFVLA

>sp|Q3ZCT8|KBTBC\_HUMAN Kelch repeat and BTB domain-containing protein 12 OS=Homo sapiens GN=KBTBD12 PE=2 SV=2

MECKIEGKEKYQHSLNLLNKIQNMKELAEMIDVVLTAEGEKFPCHRLVLAAFSPYFKAMF  
TCGLLECNQREVILYDITAESVSVLLNYMYNAALEINNANVQTVAMAAYFMQMEEVFSVC  
QKYMDHMDASNCLGIYYFAKQIGAEDLSRDKKYLQHF AEVSLHEEILEIEVHQFLTL  
IKSDDLNISREESILDLVLRWVNHKELRTVHVELLKQVRELVNPSFLRQALRRNTML  
LCDADCVDIIQNAFKAIKTPQQHSLNLRYGMETTSLLLCIGNSSGIRSRHSYGDASFC  
YDPVSRKTYFISSPKYGEGLGTCTGVVMENNTIIVAGEASASKLSRQKNKNVEIYRYHD  
RGNQFWEKLCTAEFRELYALGSIHNDLYVIGGQMKIKNQYLITNCVDKYSVERDNWKRVS  
PLPLQLACHAVTVNNKLYVIGGWTPQMDLPDEEPDRLSNKLLQYDPSQDQWSVRAPMKY  
SKYRFSTAVVNSEIYVLGGIGCVGQDKGQVRKCLDVVEIYNPDGDFWREGPPMPSPLLSL  
RTNSTNAGAVDGKLYVCGGFHGAADRHEVISKEILELDPWENQWNVVAINVLMHDSYDVCL

VARMNPRDLIPPPSDLVEEGNEH

>sp|Q6P2M8|KCC1B\_HUMAN Calcium/calmodulin-dependent protein kinase type 1B OS=Homo sapiens GN=PNCK PE=2 SV=2

MLLLKKHTEDISSVYEIRERLGSAGFSEVLAQERGSAPHLVALKCIKKALRGKEALVEN  
EIAVLRRIHPNIVALEDVHESPSHLYLAMELVTTGGELFDRIMERGSYTEKDASHLVGQV  
LGAVSYLHSLGIVHRDLKPENLLYATPFEDSKIMVSDFGLSKIQAGNMLGTACGTPGYVA  
PELLEQKPYGKAVDVWALGVISYILLCGYPPFYDESDPELFSQILRASIEFDSPFWDNIS  
ESAKDFIRHLLERDPQKRFTCCQALRHLWISGDTAFDRDILGSVSEQIRKNFARTHWKRA  
FNATSLRHRIRKLGGIPEGEGASEQGMARHSHSGLRAGQPPKW

>sp|Q96NX5|KCC1G\_HUMAN Calcium/calmodulin-dependent protein kinase type 1G OS=Homo sapiens GN=CAMK1G PE=1 SV=3

MGRKEEDDCSSWKKQTNRKTFIFMEVLGSGAFSEVFLVKQRLTGKLFALKCIKKSPAF  
RDSSLENEIAVLKKIKHENIVTLEDIYESTTHYYLVMQLVSGGELFDRILRGVYTEKDA  
SLVIQQVLSAVKYLHENGIVHRDLKPENLLYLTPEENSKIMITDFGLSKMEQNGIMSTAC  
GTPGYVAPEVLAQKPYSAVDWCISGVITYILLCGYPPFYETESKLFEEKIEGYEFES  
PFWDNISAKDFICHLLKDPNERYTCEKALSHPWIDGNTALHRDIYPSVSLQIQNFA  
KSKWRQAFNAAVVHMRKLHMLHSPGVRPEVENRPPETQASSTRPSSPEITITEAPV  
LDHSVALPALTLPCQHGRRPTAPGGRSLNCLVNGSLHISSSLVPMHQGSLAAGPCGCCS  
SCLNIGSKGKSSYCEPTLLKKANKKQNFSEVMVPVKASGSSHCRAQTGVCLIM

>sp|Q9UQM7|KCC2A\_HUMAN Calcium/calmodulin-dependent protein kinase type II subunit alpha OS=Homo sapiens GN=CAMK2A PE=1 SV=2

MATITCTRFTEEYQLFEELGKGAFSVVRRCKVLAGQEYAAKIINTKKLSARDHQKLERE  
ARICRLKHPNIVRLHDSISEEGHHYLIFDLVTGGELFEDIVAREYYSEADASHCIQQIL  
EAVLHCHQMGMVHRDLKPENLLASKLKGAAVKLADFGLAIEVEGEQQAWFGAGTPGYL  
SPEVLRKDPYKGPVDLWACGVILYILLVGYPFWDEDQHRLYQQIKAGAYDFPSPEWDTV  
TPEAKDLINKMLTINPSKRITAAEALKHPWISHRSTVASCMRQETVDCLKKFNARRKLK  
GAILTTMLATRNFSGGKSGGNKSDGVKESSESTNTTIEDEDTKVRKQEIIVKTEQLIEA  
ISNGDFESYTKMCDPGMTAFEPALGNLVEGLDFHRFYFENLWSRNSKPVHTTILNPHIH  
LMGDESACIAYIRITQYLDAGGIPRTAQSEETRVWHRDQGWQIVHFHRSGAPSVLPH

>sp|Q96SI1|KCD15\_HUMAN BTB/POZ domain-containing protein KCTD15 OS=Homo sapiens GN=KCTD15 PE=1 SV=1

MPHRKERPSGSSLHTHGSTGTAEGGNMSRLSLTRSPVSPLAAQGIPLPAQLTKSNAPVHI  
DVGGHMYTSSLATLTYPDSRISRLFNGTEPIVLDLQKHYFIDRDGEIFRYVLSFLRTS  
KLLLPDDFKDFSLLYEYARYYQLQPMVRELERWQQEQEQRRRSRACDCLVVRVTPDLGER  
IALSGEKALIEEVFPETGDMCNSVNAGWNQDPHTVIRFPLNGYCRNLNSVQVLERLFQRG  
FSVAASCGGGVDSSQFSEYVLCREERPQPTPTAVRIKQEPLD

>sp|Q14654|KCJ11\_HUMAN ATP-sensitive inward rectifier potassium channel 11 OS=Homo sapiens GN=KCNJ11 PE=1 SV=2

MLSRKGIIPPEEYVLTSLAEDPAEPRYRARQRRARFVSKKGNCNVAHKNIREQGRFLQDVF  
TTLVDLKWPHLTLLIFTMSFLCSWLLFAMAWWLIAMAHGDLAPSEGTAEPVTSIHSFSSA  
FLFSIEVQVTIGFGGRMVTEECPLAILILIVQNIVGLMINAIMLGCIFMKTAAHRAET  
LIFSKEHAIARHGRCLFMRLVGDRLKSMIISATIHMQVVRKTTSPGEVVPVPLHQVDIPM  
ENGVGNSIFLVAPLIIYHVIDANSPLYDLAPSDLHHHQDLEIIVILEGVVETTGITTQA  
RTSYLADEILWGQRFVPIVAEEDGRYSVDYSKFGNTIKVPTPLCTARQLDEHSLLEALT

LASARGPLRKRSVPMKAKPKFSISPDLS

>sp|Q9Y691|KCMB2\_HUMAN Calcium-activated potassium channel subunit beta-2 OS=Homo sapiens  
GN=KCMB2 PE=1 SV=1

MFIWTSGR TSSSYR HDEKRNIYQKIRDHDL LDKRKT V TALKAGEDRAILLGLAMMVCSIM  
MYFLLGITLLRSYMQSVWTEESQCTLLNASITETFNC SFSCGPDCWKL SQYPCLQVYVNL  
TSSGEKLLLYHTEETIKINQKCSYIPKCGKNFEESMSLVNVVMENFRKYQHFCYSYDPEG  
NQKSVILT KLYSSNVLFHSLFWPTCMMAGGVAIVAMVKLTQYLSLLCERIQRINR

>sp|P48549|KCNJ3\_HUMAN G protein-activated inward rectifier potassium channel 1 OS=Homo sapiens  
GN=KCNJ3 PE=1 SV=1

MSALRRKFGDDYQVVTSSSGSLQPQGGQDPQQQLVPKKRQRFVDKNGRCNVQHGNL  
GSETSR YLSDF T T LVDL KWRWNLFIFILTYTVAWLFMASMWVVIAYTRGDLNKAHVGN  
TPCVANVYNFPSAFLFFIETEATIGYGYRYITDKCEP G I I L F L Q S I L G S I V D A F L I G C M  
FIKMSQPKKRAETLMFSEHAVISMRDGKLTLMFRVGNLRNSHMSAQIRCKLLKSRQTPE  
GEFLPLDQLELDVGSTGADQLFLVSPLTICHVIDAKSPFYDLSQRSMQTEQFEIVVILE  
GIVETGTMCQARTSYTEDEVLGHRFFPVISLEEGFFKVDYSQFHATFEVPTPPYSVKE  
QEEMLLMSSPLIAPAITNSKERHNSVECLDGLDDITTKLPSKLQKITGREDFPKLLRMS  
STTSEKAYSLGDLPMKLQRISVPGNSEKLVSKTTKMLSDPMSQSVADLPKLQKMAGG  
AARMEGNLPAKLKMNDRFT

>sp|Q9Y257|KCNK6\_HUMAN Potassium channel subfamily K member 6 OS=Homo sapiens  
GN=KCNK6 PE=1 SV=1

MRRGALLAGALAAAYAVLVLGALLVARLEGPHEARLRAELET LRAQLLQRSPCVAAPALD  
AFVERVLAAGRLGRVVLANASGSANASDPAWDFASALFFASTLITTVGYGYTTPLTDAGK  
AFSIAFALLGVPTTMLLLTASAQRLSLLLTHVPLSWLSMRWGWDPRRAACWHLVALLGVV  
VTVCFLVPAVIFAHLEEAWSFDAFYFCFISLSTIGLDYVPGEAPGPYRALYKVLVTV  
YLFLGLVAMVLVLQTFRHVSDLHGLTELILLPPPCPASFNADEDDRVDILGPQPESHQQL  
SASSHTDYASIPR

>sp|Q96T55|KCNKG\_HUMAN Potassium channel subfamily K member 16 OS=Homo sapiens  
GN=KCNK16 PE=1 SV=1

MPSAGLCSCWGGRVLP LLLAYVCYLLLGATIFQLLERQAEASRDQFQLEKLRFL ENYTC  
LDQWAMEQFVQVIMEAWVKGVNPKGNSTNPSNWDFGSSFFFAGTVVTTIGYGNLAPSTEA  
GQVFCVFYALLGIPLNVIFLNLHGTGLRAHLAAIERWEDRPRRSQVLQVLGLALFLTLGT  
LVILIFPPMVFSHVEGWSFSEGFYFAFITLSTIGFDYVVGTDPSKHYSVYRSLAAIWI  
LLGLAWLALILPLGPLLLHRCCQLWLLSLRQCGAKAAPGRPRRGSTAARGVQVTPQDF  
PISKKGLGS

>sp|Q92952|KCNN1\_HUMAN Small conductance calcium-activated potassium channel protein 1  
OS=Homo sapiens GN=KCNN1 PE=2 SV=2

MNSHSYNGSVGRPLGSGPGALGRDPPDEAGHPQP PPHSPGLQVVAKSEPARPSPGSPR  
GQPQDQDDDEDEDEAGRQRASGKPSNVGHRLGHRRALFEKRKRLSDYALIFGMFGIVV  
MVTETELSWGVTYESLYSFALKCLISLSTAILLGLVLYHAREIQLFMVDNGADDWRIA  
MTCERVFLISLELAVCAIHPVPGHYRFTWTARLAFTYAPSVAEADVLLSIPMFLRLYL  
LGRVMLLH SKIFTDASSRSIGALNKITFNTRFVMKTLMTICPGTVLLVFSISSWIIAAWT  
VRVCERYHDKQEVS N FLGAMWLISITFLSIGYGMVPHTYCGKGVCLLTGIMGAGCTAL  
VVAVVARKLELTKAEKHVHNFMMDTQLTKRVKNAAANVLRETWLIYKHTRLVKKPDQARV  
RKHQKRF LQAIHQAKLRSVKIEQGKLNQANTLTDLAKTQTVMYDLVSELHAQHEELEA

RLATLESRLDALGASLQALPGLIAQAIRPPPPPLPPRPGPGPDQAARSSPCRWTPVAPS  
DCG

>sp|Q9ULS6|KCNS2\_HUMAN Potassium voltage-gated channel subfamily S member 2 OS=Homo sapiens GN=KCNS2 PE=1 SV=2

MTGQSLWDVSEANVEDGEIRINVGGFKRRLRSHTLLRFPETRLGRLLLCHSREAIILELCD  
DYDDVQREFYFDRNPELFPYVLHFYHTGKLHVMAELCVFSFSQEIEYWGINEFFIDSCCS  
YSYHGRKVEPEQEKWDEQSDQESTTSFDEILAFYNDASKFDGQPLGNFRRQLWLALDNP  
GYSVLSRVFSILSILVVMGSIITMCLNSLPDFQIPDSQGNPGEDPRFEIVEHFGIAWFTF  
ELVARFAVAPDFLKFFKNALNLIDLMSIVPFYITLVVNLVVESTPTLANLGRVAQVLRML  
RIFRILKLARHSTGLRSLGATLKYSYKEVGLLLLYLSVGISIFSVMAYTIEKEENEGLAT  
IPACWWWATVSMTTVGVDVPGTTAGKLTASACILAGILVVLPITLIFNKFSHFYRRQ  
KQLESAMRSCDFGDMKEVPSVNLRDYYAHKVKSLMASLTNMSRSSPELSLNDCLR

>sp|Q9BQ31|KCNS3\_HUMAN Potassium voltage-gated channel subfamily S member 3 OS=Homo sapiens GN=KCNS3 PE=1 SV=3

MVFGEFFHRPGQDEELVNLNVGGFKQSVDDQSTLLRFPHTRLGKLLTCHSEEAIILELCDDY  
SVADKEYYFDRNPSLFRYVLNFYITGKLHVMEELCVFSFCQEIEYWGINELFIDSCCSNR  
YQERKEENHEKDWQKSHDVSTDSFEESLFEKELEKFDTLRFGLRKKIWRMENPAY  
CLSAKLIAISSLSVVLASIVAMCVHSMSEFQNEDEGEVDDPVLEGVEIACIAWFTGELAVR  
LAAAPCQKKFWKNPLNIIDFVSIIPFYATLAVDTKEEESIEDIENMGKVQILRLMRIFRI  
LKLARHSVGLRSLGATLRHSYHEVGLLLLFLSVGISIFSVLISVEKDDHTSSLTSIPIC  
WWWATISMTTVGYGDTHPVTLAGKLIASCTICGILVVALPITIIIFNKFSKYQKQKQDID  
VDQCSEDAPEKCHELPYFNIRDIYAQRMHTFITSLSVGIVVSDPDSTDASSIEDNEDIC  
NTTSLENTAK

>sp|Q53RY4|KCP3\_HUMAN Keratinocyte-associated protein 3 OS=Homo sapiens GN=KRTCAP3 PE=2 SV=1

MRRCSLCAFDAARGPRRLMRVGLALILVGHVNLGLGAVLHGTVLRHVANPRGAVTPEYTV  
ANVISVSGSGLLSVSVGLVALLASRNLLRPPLHWVLLALALVNLSSVACSLGLLAVSLT  
VANGGRRLIADCHPGLLDPLVPLDEGPGHTDCFPDPTRIYDTALALWIPSLMSAGEAAL  
SGYCCVAALTLRGVGPCRKDGLQGQLEEMTELESPKCKRQENEQLDQDQNEIRASQRSWV

>sp|Q6ZWJ8|KCP\_HUMAN Kielin/chordin-like protein OS=Homo sapiens GN=KCP PE=2 SV=2

MAGVGAALSLLLHLGALALAAGAEGGAVPREPPGQTTAHSVLAGNSQEWHPLREWL  
GRLEAAVMELREQNKDLQTRVRQLESCEHPASPQCWGLGRAWPEGARWEPDACTACVCQ  
DGAHCGPQAHLPHCRGCSQNGQTYGNGETFSPDACTTCRCLTGAVQCQGPSCSELNCL  
SCTPPGECCPICCTEGGSHWEHGQEWTTPGDPCRICRCLEGHIQCRQRECAASLCPYPARP  
LPGTCCPVCDCFLNGREHRSGEFVSGDPCSHCRCANGSVQCEPLCPPVPCRHPGKIP  
GQCCPVCDCGEYQGHQYQSQETFRQLQERGLCVRCSQAGEVSCEEQECPTPCALPASGR  
QLCPACELDGEFAEGVQWEPDGRPCTACVCQDGVPKCGAVLCPAPCQHPTQPPGACCP  
SCDSCTYHSQVYANGQNFTDADSPCHACHCQDGTVTCSLVDPCPTTCARPQSGPGQCCPR  
CPDCILEEEVFVDGESFSHPDPCQECRCQEGHAHCQPRPCPRAPCAHPLPGTCCPNDCS  
GCAFGGKEYPSGADFPHPSPDCRLCRCLSGNVQCLARRCVPLPCPEPVLLPGECCPQCPA  
PAGCPRPGAHAHARHQEYFSPPGDPCRRCLCLDGSVSCQRLPCPPAPCAHPRQGPPCCPSCD  
GCLYQKGEFASGERFPSPTAACHLCLCWEGSVSCEPKACAPALCPFPARGDCCPDGCE  
YLGESYLSNQEFDPREPCNLCTCLGGFVTCGRRPCEPPGCSHPLIPSGHCCTCQGCRY  
HGVTTASGETLPDPLDPTCSLCTCQEGSMRCQKKKPCPPALCPHPSPGPCFCFVCHSCLSQ

GREHQDGEEFEGPAGSCEWCRCQAGQVSCVRLQCPPLPCKLQVTERGSCCPRCRGCLAHG  
EEHPEGSRWVPPDSACSSVCHEGVVTCARIQCISCAQPRQGPHDCCPQCSDCHEGRK  
YEPGESFQPGADPCEVCICEPQPEGPPSLRCHRRQCPSLVGCPPSQLLPPGPQHCCPTCA  
EALSNCSEGLLGSELAPDPCTCQCQDLTWLCIHQACPELSCPLSERHTPPGSCCPVCR  
APTQSCVHQGREVASGERWTVDTCTSCSCMAGTVRCQSQRCSPLSCGPDKAPALSPGSCC  
PRCLPRPASCMAFGDPHYRTFDGRLLHFQGSQSYVLAKDCHSGDFS VHVTNDDRGRSGVA  
WTQEVAVLLGDMAVRLLQDGAVTVDGHPVALPFLQEPLLYVELRGHTVILHAQPGLQVLW  
DGQSQVEVSVPGSYQGRTCGLCGNFNGFAQDDLQGPGLLLPSEAAFGNSWQVSEGLWPG  
RPCSAGREVDPCRAAGYRARREANARCGVLKSSPFSRCHAVVPPEPFFAACVYDLCACGP  
GSSADACLDALEYASHCRQAGVTPTWRGPTLCVVGCPLERGFVFDECGPPCPRTCFNQ  
HIPLGELAAHCVRPCVPGCQCPAGLVEHEAHCIPPEACPQVLLTGDQPLGARPPSPSREPQ  
ETP

>sp|Q9NXV2|KCTD5\_HUMAN BTB/POZ domain-containing protein KCTD5 OS=Homo sapiens GN=KCTD5  
PE=1 SV=1

MAENHCELLSPARGGIGAGLGGGLCRRCSAGLGALAQRPGSVSKWRLNVGGTYFLTTRQ  
TLCRDPKSFLYRLCQADPDLDSDKDETGAYLIDRDPTYFGPVLNYLRHGKLVINKDLAEE  
GVLEEAEFYNITSLIKLVKDKIRERDSKTSQVPVKHVYRVLQCQEEELTQMVMSTMSDGWK  
FEQLVSISSYNYGNEDQAEFLCVVSKELHNTPYGTASEPSEKAKILQERGRM

>sp|Q587J8|KHD3L\_HUMAN KHDC3-like protein OS=Homo sapiens GN=KHDC3L PE=1 SV=1

MDAPRRFPTLVQLMQPKAMPVEVLGHLPKRFSWFHSEFLKNPKVVRLEVWLVEKIFGRGG  
ERIPHVQMSQILIHVNRLDPNGEAEILVFGRPYQEDTIKIMNLADYHRQLQAKGSGK  
ALAQDVATQKAETQRSSIEVREAGTQRSVEVREAGTQRSVEVQEVGTQGSPEVQEAGTQ  
QSLQAANKSGTQRSPEAASKAVTQRFREDARDPVTRL

>sp|Q5VWX1|KHDR2\_HUMAN KH domain-containing, RNA-binding, signal transduction-associated  
protein 2 OS=Homo sapiens GN=KHDRBS2 PE=1 SV=1

MEEKYLPPELMAEKDSLDPFVHASRLAEEIEKFQSGDGKKEDEEKYLDVISNKNIKL  
SERVLIPVKQYPKFNFVGKLLGPRGNSLKRLQEETGAKMSILGKGSMDKAKEEELRKSG  
EAKYAHLSDELHVLIEVFAPPGEAYSRSMSHALEEIKKFLVPDYNDIEIRQEQLRELSYLN  
SEDSGRGRGIRGRGIRIAPTAPSRGRGGAIPPPPPGRGVLTPRGSTVTRGALPVPVAR  
GVPTPRARGAPTVPGYRAPPPAHEAYEEYGYDDGYGGEYDDQTYETYDINSYATQTQSVP  
EYYDYGHGVSEDAYDSYAPEEWATRSSLKAPPQRSARGGYREHPYGRY

>sp|Q9H1H9|KI13A\_HUMAN Kinesin-like protein KIF13A OS=Homo sapiens GN=KIF13A PE=1 SV=2

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FWSMDESNTTKYAGQEVVFKCLGEGILEKAFQGYNACIFAYGQTGSGKSFSMMGHAEQLG  
LIPRLCCALFKRISLEQNESQTFKVEVSYMEIYNEKVRDLLDPKGSRSQSLKVREHKVLGP  
YVDGLSQLAVTSFEDIESLMSEGNKSRTVAATNMNEESSRSHAVFNIIITQTLYDLQSGN  
SGEKVSKVSLVDLAGSERVSKTGAAGERLKEGSNINKSLTTLGLVISSLADQAAGKGKSK  
FVPRDSVLTWLLKDNLGNSQTSMIATISPAADNYEETLSTLRYADRAKRIVNHAVVNE  
DPNAKVIRELREEVEKLREQLSQAEMKAPELKEKLEESEKLIKELTVTWEELRKTEEI  
AQERQRQLESMGISLEMSGIKVGDDKCYLVNLNADPALNELLVYYLKDHTRVGADTSQDI  
QLFGIGIQPHCEIDIASDGDVTLTPKENARSCVNGTLVCSTTQLWHGDRILWGNNHFFR  
INLPKRKRDLKDFEKETGPPEHDLDAASEASSEPDPNYEFAQMEVIMKTLNSNDPVQN  
VVQVLEKQYLEEKRSALAEQRLMYERELEQLRQQLSPDRQPQSSGPDRLAYSSQTAQKQV  
TQWAEERDELFRQSLAKLREQLVKANTLVREANFLAEEMSKLTDYQVTLQIPANLSANR

KRGAI VSEPAIQVRRKGKSTQVWTIEKLENKLIDMRDLYQEWKEKVPEAKRLYGKRGDPF  
YEAQENHNLI GVANVFLECLFCDVKLQYAVPIISQQGEVAGRLHVEVMRVTGAVPERVVE  
DDSSSENSSESGLVVDSSGEI IHRVKKLTCRVKIKEATGLPLNLSNFVFCQYTFWDQCE  
STVAAPVVDPEVPSPQSKDAQYTVTFSHCKDYVVNVTEEFLEFISDGALAEVWGHRCAG  
NGSSIWEVDSLHAKTRTLHDRWNEVTRRIEMWISILELNELGEYAAVELHQAKDVNTGGI  
FQLRQGHSSRRVQVTVKPVQHSGLPLMVEAILS SVSIGCVTARSTKLQRGLDSYQRDDEG  
DDMDSYQEEDLNCVRERWSDALIKREYLDEQIKKVS NKTEKTEDDVEREAQLVEQWVGL  
TEERNAVLVPAPGSGIPGAPADWIPPPGMETHIPVLFLDLNADDLSANEQLVGPHASGVN  
SILPKEHGSQFFYLP I IKHSDDEVSATASWDSSVHDSVHLNRVTPQNERIYLIVKTTVQL  
SHPAAMELVLRKRIAANIYNKQSFTQSLKRRISLKNIFYSCGVTYEIVSNIPKATEEIED  
RETLALLAARSENEGTS DGETYIEKYTRGVLQVENILSLERLRQAVTVKEALSTKARHIR  
RSLSTPNVHN VSSSRPDLSGFDEDDKGWPENQLDMSDYSSSYQDVACYGTLPRDSPRRNK  
EGCTSETPHALTVSPFKAFSPQPPKFFKPLMPVKEEHKKRIAL EARPLLSQESMPPPPAH  
NPGCIVPSGSNGSSMPVEHNSKREKKIDSEEEENELEAINRKLISSQPYVPVEFADFSVY  
NASLENREWFSSKVDLSNSRVLEKVS RPTTSSITSGYFSHSASNATLSDMVVPSSDSS  
DQLAIQTKDADSTEHS TPSLVHDFRPSSNKELTEVEKGLVKDKIIVVPLKENSALAKGSP  
SSQSIPEKNSKSLCRTGSCSELDACPSKISQPARGFCPREVTVEHTTNILEDHSFTEFMG  
VSEKDFDGLTDSSAGELSSRRSLPNKTGGKTVSDGLHHPSQLHSKLENDQVI IPEAAFW  
VLCCQ

>sp|Q96L93|KI16B\_HUMAN Kinesin-like protein KIF16B OS=Homo sapiens GN=KIF16B PE=1 SV=2

MASVKVAVRVRPMNRREKDLEAKFI IQMEKSKTTITNLKIPEGGTGDSGRERTKTFTYDF  
SFYSADTKSPDYVSQEMVFKTLGTDVVKSAFEGYNACVFAYGQTGSGKSYTMMGNSGDSG  
LIPRICEGLFSRINETTRWDEASFRTEVSYLEIYNERNVRDLLRRKSSKTFNLRVREHPKE  
GPYVEDLSKHLVQNYGDVEELMDAGNINRTTAATGMNDVSSRSHAIFTIKFTQAKFDSEM  
PCETVSKIHLVDLAGSERADATGATGVRLKEGGNINKSLVTLGNVISALADLSQDAANTL  
AKKKQVFVPYRDSVL TWLLKDSLGGNSKTI MIATISPADVNYGETLSTLRYANRAKNIIN  
KPTINEDANVKLIRELRAE IARLKTLLAQGNQIALLDSP TALSMEEKLQQNEARVQELTK  
EWTNKWNETQNILKEQTLALRKEGIGVVL DSELPHLIGIDDDLSTGI ILYHLKEGQTYV  
GRDDASTEQDIVLHGLDLESEHCIFENIGGTVTLIPLSGSQCSVNGVQIVEATHLNQAV  
ILLGRTNMFRFNHPKEAAKLREKRKSGLLSSFSLSMTDLSKSRENLSAVMLYNPGLFER  
QQREELEKLESKRKLI EEMEEKQKSDKAELERMQQEVETQRKETEIVQLQIRKQEE SLKR  
RSFHIENKLDLLAEKEKFEERLREQQEIELQKKRQEEETFLRVQEELQRLKELNNNEK  
AEKFQIFQELDQLQKEKDEQYAKLELEKKRLEEQEKEQVMLVAHLEEQLREKQEMIQLLR  
RGEVQWVEEEKRDLEG IRESLLRVKEARAGGDEGELEKAQLRFFEFKRRQLVKLVNLE  
KDLVQKQDILKKEVQEEQEILECLKCEHDKESRLLEKHDESVDVTEVPQDFE KIKPVEY  
RLQYKERQLQYLLQNHLP TLLEEKQRAFEILDRGPLSLDNTLYQVEKEMEEKEEQLAQYQ  
ANANQLQKLQATFEFTANIARQEEKVRKKEKEILESREKQQREALERALARLERRHSALQ  
RHSTLGMETEEQRQKLASLNSGSREQSGLQASLEAEQEAELEKDQERLEYEIQQLKQKIYE  
VDGVQKDHHTLEGKVASSSLPVSAEKSHLVPLMDARINAYIEEVQRRQLDLHRVISEG  
CSTSADTMKDNEKLHNGTIQRKLKYERMVSRSLGANPDDLKDPIKISIPRYVLCGQKDA  
HFEFEVKITVLD ETWTVFRRYSRFREMHKTLKLKYAELAALEFP PKKLFGNKDERVIAER  
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>sp|Q86Y91|KI18B\_HUMAN Kinesin-like protein KIF18B OS=Homo sapiens GN=KIF18B PE=1 SV=3

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LKWGGTHDGPKKKGKDLTFVFDRVFGEAATQQDVFQHTTHSVLDSFLQGYNCVVFAYGAT  
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PLAIREDPDKGVVVQGLSFHQPASAEQLEILTRGNRNRTQHPTDANATSSRSHAIQIF  
VKQQDRVPGLTQAVQVAKMSLIDLAGSERASSTHAKGERLREGANINRSLALINVLNAL  
ADAKGRKTHVPYRDSKLTRLLKDSLGGNCRTVMIAAISPSSLTYEDTYNTLKYADRAKEI  
RLSLKSNVTSLDCHISQYATICQQLQAEVAALRKKLQVYEGGGQPPQDLPGPSKSGPPP  
EHLPSPLPPHPPSPCTPELPAGPRALQEESLGMEAQVERAMEGNSSDQEQSPEDDEG  
PAEEVPTQMP EQNPHTALPESPRLTLPKPVVGHFSARELDGDRSKQLALKVLCVAQRQY  
SLLQAAANLLTPDMITEFETLQQLVQEEKIEPGAELRTSGLARGAPLAQELCSESKPPGY  
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RQRQSFLPCLRRGSLPDTQPSQGPSTPKGERASSPCHSPRVCATVIKSRVPLGPSAMQN  
CSTPLALPTRDLNATFDLSEPPSKPSFHECIGWDKIPQELSRLDQPFIPRAPVPLFTMK  
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>sp|Q7Z4S6|KI21A\_HUMAN Kinesin-like protein KIF21A OS=Homo sapiens GN=KIF21A PE=1 SV=2

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QEQIYIQCIKLEIEGCFEGYNATVFAYGQTGAGKTYTMGTGFDVNIVEEELGIISRAVKH  
LFKSIIEKKHIAIKNGLPAPDFKVNAQFLELYNEEVLDLFDTRDIDAKSKKSNIRIHED  
STGGIYTVGVTTTRTVNTESEMMQCLKLGA LSRTTASTQMNQSSRSHAI FTIHVCQTRVC  
PQIDADNATDNKII SESAQMNEFETLTAKFHFVDLAGSERLKRTGATGERAKEGISINCG  
LLALGNVISALGDKSKRATHVPYRDSKLTRLLQDSLGGNSQTIMIACVSPSDRDFMETLN  
TLKYANRARNIKNKVMVNQDRASQQINALRSEITRLQMELM EYKTGKRI IDEEGVESIND  
MFHENAMLQTENNNLRVRIKAMQETVDALRSRITQLVSDQANHVLARAGEGNEEISNMIH  
SYIKEIEDLRAKLLESEAVNENLRKNLTRATARAPYFSGSSTFSPTILSSDKETIEIIDL  
AKKDLEKLKRKEKRRKKRLQKLEESNREERSVAGKEDNTD TDQEKKEEKGV SERENNELE  
VEESQEVSDHEDEEEEEEEEEEDDIDGGESSDESSESDEKANYQADLANITCEIAIKQKL  
IDELENSQKRLQTLKKQYEEKLMLQHKIRDTQLERDQVLQNLGSVESYSEEKAKKVRSE  
YEKKLQAMNKELQRLQAAQKEHARLLKNQSQYEKQLKKLQQDVMEMKTKVRLMKQMKEE  
QEKARLTESRRNREIAQLKKDQRKRDHQLRLLEAQKR NQEVVLRRTKEEVTALRRQVRPM  
SDKVAGKVTRKLSSSDAPAQDTGSSAAAVETDASRTGAQQKMRI PVARVQALPTPATNGN  
RKKYQRKGLTGRVFISK TARMKWQLLERRVTDIIMQKMTISNMEADMNRLKQREELTKR  
RELSKRREKIVKENGEGDKNVANINEEMESLTANIDYINDSISDCQANIMQEEAKEEG  
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QLLFHMLKEKAELNPELDALLGHALQDLDSVPLENVEDSTDEDAPLNSPGSEGSTLSSDL  
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TSGTSAREKELSPPPGLPSKIGSISRQSSLSEKKIPEPSPVTRRKAYEKA EKSKAKEQKH  
SDSGTSEASLSPSSPPSRPRNELNVFNRLTVSQGNTSVQQDKSDESDSSLSEVHRSSRR  
GIINFPFASKGIRAFPLQCIIHIAEGHTKAVLCVDSTDDLFTGSKDR TCKVWNLVTGQEI  
MSLGGHPNNVSVKYCNYTSLVFTVSTSYIKVWDIRDSAKCIRTLTSSGQVTLGDACSAS  
TSRTVAIPSGENQINQIALNPTGTFLYAASGNAV RMWDLKRFQSTGKLTGHLGPMCLTV  
DQISSGQDLIITGSKDHYIKMFDVTEGALGTVSPTHNFEP PHYDGI EALTIQGDNLFSGS  
RDNGIKKWDLTQKDLLQVVPNAHKDWVCALGVVPDHPVLLSGCRGGILKVWNMDTFMPVG  
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>sp|Q99706|KI2L4\_HUMAN Killer cell immunoglobulin-like receptor 2DL4 OS=Homo sapiens  
GN=KIR2DL4 PE=1 SV=3

MSMSPTVIIILACLGFFLDQSVWAHVGGQDKPFCSAWPSAVVPQGGHVTLRCHYRRGFNIF  
TLYKKDGVVPPELYNRIFWNSFLISPVTPAHAGTYRCRGFHPHSPTWSAPSNNPLVIMVT  
GLYEKPSLTARPGPTVRAGENVTLSCSSQSSFDIYHLSREGEAHELRLPAVPSINGTFQA  
DFPLGPATHGETYRCFGSFHGSPEWSDPSDPLPVSVTGNPSSSWPSPTEPSFKTGIA RH  
LHAVIRYSVAIILFTILPFFLLHRWCSKKKDAAVMNQEPAGHRTVNREDSDEQDPQEVTY  
AQLDHCIFTQRKITGPSQSRKRPSTDTSVCIELPNAEPRALSPAHEHHSQALMGSSRETT  
ALSQTQLASSNVPAAGI

>sp|Q14943|KI3S1\_HUMAN Killer cell immunoglobulin-like receptor 3DS1 OS=Homo sapiens  
GN=KIR3DS1 PE=2 SV=1

MSLMVSMACVGLFLVQRAGPHMGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFML  
YKEDRIHVPIFHGRIFQEGFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPMVIMVTGN  
HRKPSLLAHPGPLVKSGERVILQCWSDIMFEHFFLHKEWISKDPSRLVGQIHDGVSKANF  
SIGSMMLALAGTYRCYGSVTHTPYQLSAPSDPLDIVVTGLYEKPSLSAQPGPKVQAGESV  
TLSCSSRSSYDMYHLSREGGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS  
PYEWSDPSDPLLVSVTGNPSSSWPSPTEPSSKSGNLRHLHILIGTSVVKIPFTILLFFLL  
HRWCSNKKNAAVMDQEPAGNRSEQRGF

>sp|O43896|KIF1C\_HUMAN Kinesin-like protein KIF1C OS=Homo sapiens GN=KIF1C PE=1 SV=3

MAGASVKVAVRVRPFNARETSQDAKCVVSMQGNNTSIINPKQSKDAPKSFTFDYSYWSHT  
STEDPQFASQQQVYRIDIGEMLLHAFEGYNVCIFAYGQTGAGKSYTMMGRQEPGQQGIVP  
QLCEDLFSRVSENQSAQLSYSVEVSYMEIYCERVRDLLNPKSRGSLRVREHPILGPYVQD  
LSKLAVTSYADIADLMDCGNKARTVAATNMNETSSRSHAVFTIVFTQRCHDQLTGLDSEK  
VSKISLVDLAGSERADSSGARGMLKEGANINKSLTTLGKVISALADMQSKKRKSDFIPY  
RDSVLTWLLKENLGGNSRTAMIAALSPADINYEETLSTLRYADRTKQIRCNAIINEDPNA  
RLIRELQEEVARLRELLMAQGLSASALEGLKTEEGSVRGALPAVSSPPAPVSPSSPTTHN  
GELEPSFSFNTESQIGPEEAMERLQETEKI I AELNETWEEKLRKTEALRMEREALLAEMG  
VAVREDGGTVGVFSPKKTPLHLVNLNEDPLMSECLLYHIKDGVT RVGQVDM DIKLTGQFIR  
EQHCLFRSIPQPDGEVVVLTLEPCEGAETVNGKLVTEPLVLKSGNRIVMGKNHVFRFNHP  
EQARLERERGVPPPPGPPSEPVDWNFAQKELLEQQGIDIKLEMEKRLQDLENQYRKEKEE  
ADLLEQQRLYADSDSGDDSDKRSCEESWRLISSLEQLPPTTVQTIVKRCGLPSSGKRR  
APRRVYQIPQRRRLQGKDPRWATMADLKMQAVKEICYEVALADFRHGRAEIEALAALKMR  
ELCRTYGKPDGPGDAWRAVARDVWDTVGEEGGGAGSGGGSEEGARGAEVEDLRAHIDKL  
TGILQEVKLQNSSKDRELQALRDRMLRMERVIPLAQDHEDENE EGGEVPWAPPEGSEAAE  
EAAPSDRMPSARPPSPPLSSWERVSRLMEEDPAFRRGRLRWLQEQRLRLQGLQGSGGRGG  
GLRRPPARFVPPHCKLRFPFKSNPQHRESWPGMGSGEAPTLPQPPEEVTPHPATPARRP  
PSPRRSHHPRRNSLDGGGRSRGAGSAQPEPQHFPKPKHNSYPQPYPYQRP PGPRYP  
YTTPPRMRRQRSAPDLKESGA AV

>sp|Q02241|KIF23\_HUMAN Kinesin-like protein KIF23 OS=Homo sapiens GN=KIF23 PE=1 SV=3

MKSARAKTPRKPTVKKSQTNLKDPVGVYCRVRPLGFPDQECCIEVINNTTVQLHTPEGY  
RLNRNGDYKETQYSFKQVFGTHTTQKELFDVVANPLVNDLIHGKNGLLFTYGVTGSGKTH  
TMTGSPGEGGLPRCLDMIFNSIGSFQAKRYVFKSNDNRNSMDIQCEVDALLERQKREAMP  
NPKTSSSKRQVDPEFADMITVQEFCKAEEVDEDSVYGVFVSYIEIYNNYIYDLLEEVFPD  
PIKPKPPQSKLLREDKNHNMYVAGCTEVEVKSTEEAFEVFWRGQKKRRIANTHLNRESSR



SHSVFNIKL VQAPLDADGDNVLQEKEQITISQLSLVDLAGSERTNRTRAEGNRLREAGNI  
NQSLMTLRTCMDVLRNQMYGTNKMVPYRDSKLTHLFKNYFDGEGKVRMIVCVNPKAEDY  
EENLQVMRFAEVTQEVEVARPVDAKICGLTPGRRYRNQPRGPVGNELVTDVVLQSFPP  
PSCEILDINDEQTLPRLEALEKRHNLRQMMIDEFNKQSNAFKALLQEFDNAVLSKENHM  
QGKLENEKEMISGQKLEIERLEKKNKTLEYKIEILEKTTTIYEEDKRNLQQELETQNQKL  
QRQFSDKRRLEARLQGMVTETTMKEKECERRVAAKQLEMQNKLVWKDEKLKQKAI VTE  
PKTEKPERPSRERDREKVTQRSVSPSPVPLSSNYIAQISNGQQLMSQPQLHRRSNSCSSI  
SVASCISEWEQKIPTYNTPLKVTSIARRRQQEPGQSKTCIVSDRRRGMYWTEGREVVPTF  
RNEIEIEEDHCGRLLFQPDQNAPPRLRHRRSRSAGDRWVDHKPASNMQTETVMQPHVPH  
AITVSVANEKALAKCEKYMLTHQELASDGEIETKLKGDYKTRGGGQSVQFTDIETLKQ  
ESPNGSRKRRSSTVAPAQPDGAESWTDVETRCVAVEMRAGSQLGPGYQHHAQPKRKKP

>sp|Q99661|KIF2C\_HUMAN Kinesin-like protein KIF2C OS=Homo sapiens GN=KIF2C PE=1 SV=2

MAMDSSLQARLFPGLAIKIQRSNGLIHSANVRTVNLEKSCVSEVAEGGATKGKEIDFDD  
VAAINPELLQLLPLHPKDNLPQENVTIQKQKRRSVNSKIPAPKESLSRSTRMSTVSEL  
RITAQENDMEVELPAAANSRKQFSVPPAPTRPSCPAVAEIPLRMVSEEMEEQVHSIRGSS  
SANPVNSVRRKSCLVKEVEKMKNKREEKKAQNSEMRMKRAQEYDSSFNWEFARMIKEFR  
ATLECHPLTMTDPIEEHRCVVCVRKRPLNKQELAKKEIDVISIPSKCLLLVHEPKLKVDL  
TKYLENQAFCFDFAFDETASNEVVYRFTARPLVQTI FEGGKATCFAYGQTGSGKTHTMGG  
DLGKAQNASKGIYAMASRDVFLKNQPCYRKLGLEVVYVTFEIIYNGKLFDLLNKKAKLR  
VLEDGKQQVQVVGLEHLVNSADDVIKIDMGSACTSGQTFANSNSSRSHACFQIILRA  
KGRMHGKFSVLVDLAGNERGADTSSADRQTRMEGAEINKSLLALKECIRALGQNAHTPFR  
ESKL TQVLRDSFIGENSRTCMIATISPGISSCEYTLNTRLRYADRVKELSPHSGPSGEQLI  
QMETEEMEACSNALIPGNLSKEEEEELSSQMSSFNEAMTQIRELEEKAMEELKEIIQQGP  
DWLELSEMTEQPDYDLET FVNKAESALAQAKHFSALRDVIKALRLAMQLEEQASRQISS  
KKRPQ

>sp|Q9Y496|KIF3A\_HUMAN Kinesin-like protein KIF3A OS=Homo sapiens GN=KIF3A PE=1 SV=4

MPINKSEKPESCDNVKVVVRCRPLNEREKSMCYKQAVSVDEMRTITVHKTDSSNEPPKT  
FTFDTVFGPESKQLDVYNLTARPIIDSVLEGYNGTIFAYGQTGTGKFTMEGVRAIPELR  
GIIPNSFAHIFGHIAKAEGDTRFLVRVSYLEIYNEEVRDLLGKDQTRLEVKERPDVGVY  
IKDLSAYVVNNADDMDRIMTLGHKNRSVGATNMNEHSSRSHAI FTITIECSEKIDGNMH  
VRMGLHLVDLAGSERQAKTGATGQRLKEATKINLSLSTLGNVISALVDGKSTHVPYRNS  
KLTRLQLDSLGGNSKTMCANIGPADYNYDETISTLRYANRAKNIKARINEDPKDALL  
RQFQKEIEELKKKLEEGEEISGSDISGSEEDDDEEGEVGEDGEKRRKRRGKKKVPDKMI  
EMQAKIDEERKALETKLDMEEEERNKARAELEKREKDLLKAQGEHQSLLEKLSALEKKVI  
VGGVDLLAKAEQEKLLEESNMELEERRKRAEQLRRELEEKEQERLDIEEKYTSLQEEAQ  
GKTKKLKVVWMLMAAKSEMADLQGEHQREIEGLLENIRQLSRELRLQMLIIDNFIPRDY  
QEMIENYVHWNEDIGEWQLKCVAYTGNNMRKQTPVPDKKEKDPFEVDLSHVYLAYTEESL  
RQSLMKLERPRTSGKARPKTGRRKRSAPETVIDSLLQ

>sp|Q96J84|KIRRI\_HUMAN Kin of IRRE-like protein 1 OS=Homo sapiens GN=KIRREL PE=1 SV=2

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GMGQGLKAWPRYRVVGSADAGQYNLEITDAELSDDASYECQATEAALRSRAKLTVLIPP  
EDTRIDGGPVILLQAGTPHNLTCRAFNAPKPAATIIWFRDGTQQEGAVASTELLKDGKRET  
TVSQLLINPTDLDIGRVFTCRSMNEAIPSGKETSIELDVHHPTVTLSIEPQTVQEGERV  
VFTCQATANPEILGYRWAKGGFLIEDAHESRYETNVDSFFTEPVSCVHNKVGSTNVST

LVNVHFAPRIVDPKPTTTDIGSDVTLTCVWVGNPPLTLTWTKDSNMVLSNSNQLLLS  
VTQADAGTYTCRAIVPRIGVAEREVPLYVNGPPIISSEAVQYAVRGDGGKVECFIGSTPP  
PDRIAWAWKENFLEVGLTERYTVERTNSGSGVLSTLTINNMEADFQTHYNCTAWNSFGP  
GTAIQLEEREVLPGVGIAGATIGASILLIFFFIALVFFLYRRRKGSRKDVTLRKLDIKV  
ETVNREPLTMHSDREDDTASVSTATRVMKAIYSSFKDDVDLKQDLRCDTIDTREEYEMKD  
PTNGYYNVRAHEDRPSSRAVLAYDYRAPGPARFDGRPSSRLSHSSGYAQLNTYSRGPASD  
YGPEPTPPGPAAPAGTDTTSQLSYENYEKFNSHPPGAAGYPTYRLGYPQAPPSGLERTP  
YEAYDPIGKYATATRFSYTSQHSDYGQRFQQRMQTHV

>sp|Q13118|KLF10\_HUMAN Krueppel-like factor 10 OS=Homo sapiens GN=KLF10 PE=1 SV=1

MLNFGASLQQTAERMEMISERPKESSWNTAEKSDFEAVEALMSMSCSWKSDFKKYV  
ENRPVTPVSDLSEENLLPGTPDFHTIPAFCLTPPYSPDFEPSQVSNLMAAPSTVHFK  
SLSDTAKPHIAAPFKEEEKSPVSAPKLPKAQATSVIRHTADAQLCNHQTCPMKAASILNY  
QNSFRRRRTHLNVEAARKNIPCAAVSPNRSKCERNTVADVDEKASAALYDFSVPSSETVI  
CRSQPAPVSPQKSVLVSPPAVSAGGVPPMPVICQMVPLPANNPVVTVVPSTPPSQPPA  
VCPPVVMGTQVPKGAVMFVVPQPVVQSSKPPVSPNGTRLSPAPAGFSPSAKVTPQ  
IDSSRIRSHICSHPGCGKTYFKSSHLKAHTRHTGEKPFSCSWKGCERRFARSDELSRHR  
RTHTGEKKFACPMCDRRFMRSDDLTKHARRHLSAKKLPNWQMEVSKLNDIALPPTAPTQ

>sp|Q9Y2Y9|KLF13\_HUMAN Krueppel-like factor 13 OS=Homo sapiens GN=KLF13 PE=1 SV=1

MAAAAYVDHFAAECLVSMSSRAVHGPREGPESRPEGAAVAATPTLPRVEERRDGKDSAS  
LFVVARILADLNQQAAPAPAPAEERREGAAARKARTPCRLPPPAPEPTSPGAEGAAAAPPSP  
AWSEPEPEAGLEPEREPGAGSGEPLRQVRRRGRSRADLESPQRKHCHYAGCEKVYVK  
SSHLKAHLRHTGERPFACSWQDCNKKFARSDELARHYRHTGEKKFSCPICEKRFMRSD  
HLTKHARRHANFHPGMLQRRGGGSRGSLSDYSRSDASSPTISPASSP

>sp|095600|KLF8\_HUMAN Krueppel-like factor 8 OS=Homo sapiens GN=KLF8 PE=1 SV=2

MVDMDKLINNLEVQLNSEGGSMQVFKQVTASVRNRDPPEIEYRSNMTSPTLLDANPMENP  
ALFNDIKIEPPEELLASDFSLPQVEPVDLSFHKPKAPLQPASMLQAPIRPPKPQSSPQTL  
VVSTSTSDMSTSANIPTVLTPGSVLTSSQSTGSQQILHVIHTIPSVSLPNKMGGGLKTIPV  
VVQSLPMVYTTLPADGGPAAITVPLIGDGKNAGSVKVDPTSMSPLEIPSDSEESTIESG  
SSALQSLQGLQQEPAAAMQMGESLDLKRRIHQCDFAGCSKVYTKSSHLKAHRIHTG  
EKPYKCTWDGCSWKFARSDELTRHFRKHTGKPFRCDCNRSFSRSDHLSLHRRRHDTM

>sp|P46020|KPB1\_HUMAN Phosphorylase b kinase regulatory subunit alpha, skeletal muscle isoform OS=Homo sapiens GN=PHKA1 PE=1 SV=2

MRSRSNSGVRLDGYARLVQQTILCHQNPVTGLLPASYDQKDAWVRDNVYSILAVWGLGLA  
YRKNADRDEDKAKAYELEQSVVKLMRGLLHCMIRQVDKVESFKYSQSTKDSLHAKYNTKT  
CATVVGDDQWGLQLDATSVYLLFLAQMTASGLHIHSLDEVNFIQNLVFYIEAAYKTAD  
FGIWERGDKTNQGISELNASSVGMKAALAEALDELDFGVKGGPQSVIHVLADEVQHCQS  
ILNSLLPRASTSKEVDASLLSVVSFPFAVEDSQLVELTKQEIIITKLQGRYGCCRFLRDG  
YKTPKEDPNRLYEPaelKLfENIECEWPLFWTYFILDGVFSGNAEQVQEYKEALEAVLI  
KGKNGVPLLPELYSVPPDRVDEEYQNPHTVDRVPMGKLPHMWGQSLYILGSLMAEGFLAP  
GEIDPLNRRFSTVPKPDVVVQVSILAETEEIKTILKDKGIYVETIAEVYPIRVQPARILS  
HIYSSLGCNNRMKLSGRPYRHMVGLGTSKLYDIRKTI FTFTPQFIDQQQFYALDNKMIV  
EMLRTDLSYLCRWRMTGQPTITFPISHSMLDEDGTSLNSSILAALRKMQDGYFGGARVQ  
TGKLEFLTTSCCTHLSFMDPGPEGKLYSEYDDNYDYLESNWMNDYDSTSHARCGDEV  
ARYLDHLLAHTAPHPKLAPTSQKGGDRFQAAVQTTCDLSLVTKAKELHVQNVHMYLPT

KLFQASRPSFNLLDSPHPRQENQVPSVRVEIHLPRDQSGEVDFKALVLQLKETSSSLQEQA  
DILYMLYTMKGPDWNTELYNERSATVRELLTELYGKVGEIRHWGLIRYISGILRKKVEAL  
DEACTDLLSHQKHLTVGLPPEPREKTISAPLPYEALTQLIDEASEGDMSSISILTQEIMVY  
LAMYMRTPQPLFAEMFRLRIGLI IQVMATELAHSLRCSAEAEATEGLMNLSPSAMKNLLHH  
ILSGKEFGVERSVRPTDSNVSPAISIHEIGAVGATKTERTGIMQLKSEIKQVEFRRLSIS  
AESQSPGTSMTSPSSGSFPSAYDQQSSKDSRQGQWQRRRLD GALNRVPVGFYQKVWKVLQ  
KCHGLSVEGFVLPSSTREMTPEIKFSVHVESVLNRVPQPEYRQLLVEAILVLTMLADI  
EIHSGSIIAVEKIVHIANDLFLQEQLTGADDTMLAKDPASGICTLLYDSAPSGRFGTM  
TYLSKAAATYVQEFLPHSICAMQ

>sp|Q15139|KPCD1\_HUMAN Serine/threonine-protein kinase D1 OS=Homo sapiens GN=PRKD1 PE=1 SV=2

MSAPPVLRPPSPLLPVAAAAAAAAAALVPGSGPGPAPFLAPVAAPVGGISFHLQIGLSRE  
PVLLQLDSSGDYSLAHVREMACSIVDQKFPECGFYGMYDKILLFRHDPTSENILQLVKAA  
SDIQEGDLIEVLSASATFEDFQIRPHALFVHSYRAPAFCDHCGEMLWGLVRQGLKCEGC  
GLNYHKRCAFKIPNNCSGVRRLRLSNVSLTGVESTIRTSSAELSTSAPDEPLLQKSPSEF  
IGREKRSNSQSYIGRPIHLDKILMSKVVPHTFVIHSYTRPTVCQYCKLLKGLFRQGLQ  
CKDCRFNCHKRCAPKVPNNCLGEVTINGDLLSPGAESDVVMEEGSDNDSENRNGLMDDM  
EEAMVQDAEMAMAECQNDSGEMQDPDPDHEDANRTISPSTSNNIPLMRVVQSVKHTKRKS  
STVMKEGWMVHYTSKDTLRKRHYWRLDSKCITLFQNDTGSRYYEIPLSEILSLEPVKTS  
ALIPNGANPHCFEITTANVYYYVGENVVNPSSPSPNNSVLTSGVGADVARMEIAIQHAL  
MPVIPKGSSVGTGTNLHRDISVSISVSNQC IQENVDISTVYQIFPDEVLGSGQFGIVYGG  
KHKRTGRDVAIKI IDKLRFPTKQESQLRNEVAILQNLHHPGVNLECMFETPERVFVME  
KLHGDMLEMILSSEKGRLEPHITKFLITQILVALRHLHFKNIVHCDLKPENVLLASADPF  
PQVKLCDFGFARIIGEKSFRSSVVGTPAYLAPEVLRNKGYNRSLDMWSVGVIIVVSLSGT  
FPFNEDEDIHDQIQNAAFMYPNPWKEISHEAIDLINNLLQVKMRKRYSDKTL SHPWLQ  
DYQTWLDLRELECKIGERYITHESDDLREWEKYAGEQGLQYPHTLINPSASHSDTPETEET  
EMKALGERVSIL

>sp|076011|KRT34\_HUMAN Keratin, type I cuticular Ha4 OS=Homo sapiens GN=KRT34 PE=2 SV=2

MLYAKPPPTINGIKGLQRKERLKAHIHLQLTCSITCSSTMSYSCCLPSLGCR TSCSS  
RPCVPPSCHGYTLPGACNIPANVSNCNWFCEGSFNGSEKETMQFLNDRLASYLEKVRQLE  
RDNAELEKLIQERSQQQEPLLCPSYQSYFKTIEELQQKILCAKAENARLVVNIDNAKLAS  
DDFRSKYQTEQSLRLVESDINSIRILDELTLCKSDLESQVESLREELICLKNHEEEV  
NTLRSQLGDRLNVEVD TAPTVDLNQVLNETRSQYEALVEINRREVEQWFATQTEELNKQV  
VSSSEQLQSCQAEIIELRRTVNALEIELQAQHNL RDSLENTL TESEAHYSSQLSQVQSLI  
TNVESQLAEIRCDLERQNEQYQVLLDVRARLECEINTYRSLLESEDCKLPCNPCATTNAS  
GNSCGPCGTSQKGCCN

>sp|076014|KRT37\_HUMAN Keratin, type I cuticular Ha7 OS=Homo sapiens GN=KRT37 PE=3 SV=3

MTSFYSTSSCPLGCTMAPGARNVFVSPIDVGCQPVAEANAASMCLLANVAHANRVVGST  
PLGRPSLCLPPTSHTACPLPGTCHIPGNIGICGAYGKNTLNGHEKETMKFLNDR LANYLE  
KVRQLEQENAELETLLERSKCHESTVCPDYQSYFRTIEELQQKILCSKAENARLIVQID  
NAKLAADDFRIKLESERSLHQLVEADKCGTQKLLDDATLAKADLEAQQESLKEEQSLKLS  
NHEQEVKILRSQLGKFRIELDIEPTIDLNRVLGEMRAQYEAMVETNHQDVEQWFQAQSE  
GISLQAMSCSEELQCCQSEILELRCTVNALEVERQAQHTLKDCLQNSLCEADRYGTELA  
QMQLISNLEEQLSEIRADLERQNEQYQVLLDVKARLENEIATYRNLLESEDCKLPCNPC

STPASCTSCPSCGPVTGGSPSGHGASMGR

>sp|Q15349|KS6A2\_HUMAN Ribosomal protein S6 kinase alpha-2 OS=Homo sapiens GN=RPS6KA2  
PE=1 SV=2

MDLSMKKFAVRRFFSVYLRRKSRSKSSSLSRLEEEGVVKEIDISHHVKEGFEEKADPSQFE  
LLKVLGGQSYGKVFVLRKVKGSDAGQLYAMKVLKKATLKVRDRVRSKMERDILAENVHPF  
IVKLHYAFQTEGKLYLILDFLRGGDLFTRLKSKEVMFTEEDVKFYLAELALALDHLHSLGI  
IYRDLKPENILLDEEGHIKITDFGLSKEAIDHDKRAYSFCGTIEYMAPEVNNRRGHTQSA  
DWWSFGLMFEMLTGSLPFQGKDRKETMALILKAKLGMPQFLSGEAQSLLRALFKRNPCN  
RLGAGIDGVVEIKRHPFFVTIDWNTLYRKEIKPPFKPAVGRPEDTFHFDPFTARTPTDS  
PGVPPSANAHHLFRGFSFVASSLIQEPSQQDLHKVPVHPIVQQLHGNNIHFTDGYEIKED  
IGVGSYSVCKRCVKATDTEYAVKIIDKSKRDPSEEIEILLRYGQHPNIIITLKD VYDDGK  
FVYLVMEMLMRGGELLDRI LRQRYFSEREASDVLCITITKMDYLHSQGVVHRDLKPSNILY  
RDESGSPESIRVCDFGFAKQLRAGNGLLMTPCYTANFVAPEVLKRQGYDAACDIWSLGIL  
LYTMLAGTFPFANGPDDTPEEILARIGSGKYALSGGNWDSISDAAKDVVSKMLHVDPHQR  
LTAMQVLKHPVWNREYLSPNQLSRQDVHLVKGAMAATYFALNRTQPAPRLEPVLSSNLA  
QRRGMKRLTSTRL

>sp|075676|KS6A4\_HUMAN Ribosomal protein S6 kinase alpha-4 OS=Homo sapiens GN=RPS6KA4  
PE=1 SV=1

MGDEDDDESCAVELRITEANLTGHEEKVSVENFELLKVLGTGAYGKVFVLRKAGGHDAGK  
LYAMKVLKKAALVQRAKTQEHTRTERSVLELVRQAPFLVTLHYAFQTDAKLHLILDYVSG  
GEMFTHLYQRQYFKEAEVRVYGGIEVLALHLHLKLGIIYRDLKLENVLLDSEGHIVLTDF  
GLSKEFLTEEKERTFSFCGTIEYMAPEIIRSKTGHGKAVDWWSLGILLFELLTGASPFTL  
EGERNTQAEVSRRIKCSPPFPPIRIGPVAQDLLQRLCKDKPKRLGAGPQGAQEVNRNHPF  
FQGLDWVALAARKIPAPFRPQIRSELDVGNFAEEFTRLEPVYSPPGSPPPGDPRIFFQGY  
FVAPSILFDHNNAVMTDGLAEPGAGDRPGRAAVARSAMMQDSPFFQYELDLREPALGQG  
SFSVCRRCRQRQSGQEFVAVKILSRREANTQREVAALRLCQSHPNVNLHEVHHDQLHTY  
LVLELLRGGELLEHIRKKRHFSESEASQILRSLVSAVSFMHEEAGVVHRDLKPENILYAD  
DTPGAPVKIIDFGFARLRPQSPGVPMTPCFTLQYAAPELLAQQGYDESCDLWSLGVILY  
MMLSGQVPFQGASGQGGQSAAEIMCKIREGRFSLDGEAWQGVSEEAKELVRGLLTVDP  
A KRLKLEGLRGSSWLQDGSARSSPLRTPDVLESSGPAVRSGLNATFMAFNRGKREGFFLK  
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>sp|Q9UK32|KS6A6\_HUMAN Ribosomal protein S6 kinase alpha-6 OS=Homo sapiens GN=RPS6KA6  
PE=1 SV=1

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VKEGYEKADPAQFELLKVLGGQSGFKVFLVRKKTGPDAGQLYAMKVLKASLKVRDRVRT  
KMERDILVEVNHPFIVKLHYAFQTEGKLYLILDFLRGGDVFTRLKSKEVLFTEEDVKFYLA  
ELALALDHLHQLGIVRDLKPENILLDEIGHIKLTDGLSKESVDQEKAYSFCGTVEYM  
APEVNNRRGHSQSADWWSYGLMFEMLTGTLPFQGKDRNETMNMILKAKLGMPQFLSAEA  
QSLLRMLFKRNPANRLGSEGVVEIKRHLLFFANIDWDKLYKREVQPPFKPASGKPDDTFCF  
DPEFTAKTPKDSPLPASANAHQLFKGFSFVATSI AEEYKITPITSANVLPVQINGNAA  
QFGEVYELKEDIGVGSYSVCKRCIHATTNMEFAVKIIDKSKRDPSEEIEILMRYGQHPNI  
ITLKDVFDDGRYVYLVTDLMKGGELLDRI LKQKCFSEEREASDILYVISKTVDYLHCQGVV  
HRDLKPSNILYMDASASDSIRICDFGFAKQLRGENGLLTPCYTANFVAPEVLMQQGYD  
AACDIWSLGVLFYTMLAGYTPFANGPNDTPEEILLRIGNGKFSLSGGNWDNISDGAKDLL

SHMLHMDPHQRYTAEQILKHSWITHRDQLPNDQPKRNDVSHVVKGAMVATYSALTHKTFQ  
PVLEPVAASSLAQRRSMKKRTSTGL

>sp|076009|KT33A\_HUMAN Keratin, type I cuticular Ha3-I OS=Homo sapiens GN=KRT33A PE=2  
SV=2

MSYSCGLPSLSCRTSCSSRPCVPPSCHGCTLPGACNIPANVSNCNWFCEGSFNGSEKETM  
QFLNDRLASYLEKVRQLERDNAELENLIRERSQQQEPLVCASYQSYFKTIEELQQKILCS  
KSENARLVVQIDNAKLASDDFRTKYETELSLRQLVESDINGLRRILDELTLCRSDLEAQV  
ESLKEELLCLKQNHEQEVNTLRCQLGDRLNVEVDAAPTVDLNQVLNETRSQYEALVETNR  
REVEQWFATQTEELNKQVVSSEQLQSYQAEI IELRRTVNALEIELQAQHNLRDSLENTL  
TESEARYSSQLSQVQRLITNVESQLAEIRSDLERQNQEYQVLLDVRARLECEINTYRSLL  
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>sp|Q9HA64|KT3K\_HUMAN Ketosamine-3-kinase OS=Homo sapiens GN=FN3KRP PE=1 SV=2

MEELLRRELGCSSVRATGHSGGCISQGRSYDTDQGRVFKVNPKAEARRMFEGEMASLT  
AILKTNTVKVPKPIKVLDA PGGSVLMVMEHMDMRHLSSHA AKLGAQLADLHLDNKKLGEM  
RLKEAGTVGRGGGQEERPFVARFGFDVVTCCGYLPQVNDWQEDWVVFYARQRIQPQMDMV  
EKESGDREALQLWSALQLKIPDLFRDLEIIPALLHGDWGGNVAEDSSGPVIFDPASFYG  
HSEYELAIAGMFGGFSSSFYSAYHGKIPKAPGF EKRLQLYQLFHYLNHNHFGSGYRGSS  
LNIMRNLVK

>sp|P04430|KV116\_HUMAN Immunoglobulin kappa variable 1-16 OS=Homo sapiens GN=IGKV1-16  
PE=1 SV=2

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>sp|P01597|KV139\_HUMAN Immunoglobulin kappa variable 1-39 OS=Homo sapiens GN=IGKV1-39  
PE=1 SV=2

MDMRVPAQLLGLLLLWLRGARCDIQMTQSPSSLSASVGDRVTITCRASQSISSYLNWYQQ  
KPGKAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQSYSTP

>sp|P01619|KV320\_HUMAN Immunoglobulin kappa variable 3-20 OS=Homo sapiens GN=IGKV3-20  
PE=1 SV=2

METPAQLLFLLLLWLPD TTGEIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQK  
PGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSP

>sp|P01611|KVD12\_HUMAN Immunoglobulin kappa variable 1D-12 OS=Homo sapiens GN=IGKV1D-12  
PE=1 SV=2

MDMMVPAQLLGLLLLWFPGRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQQ  
KPGKAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFP

>sp|P04432|KVD39\_HUMAN Immunoglobulin kappa variable 1D-39 OS=Homo sapiens GN=IGKV1D-39  
PE=3 SV=2

MDMRVPAQLLGLLLLWLRGARCDIQMTQSPSSLSASVGDRVTITCRASQSISSYLNWYQQ  
KPGKAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQSYSTP

>sp|Q53G59|KLH12\_HUMAN Kelch-like protein 12 OS=Homo sapiens GN=KLHL12 PE=1 SV=2

MGGIMAPKDIMTNTHAKSILNSMNSLRKSN TLCDVTLRVEQKDFPAHRIVLAACSDYFCA  
MFTSELSEKGKPYVDIQGLTASTMEILLDFVYTETVHVTENVQELLPAACLLQLKGVKQ  
ACCEFLESQLDPSNCLGIRDFAETHNCVDLMQAAEVFSQKHFPEVVQHEEFILLSQGEVE  
KLIKDEIQVDSEEPVFEAVINWVKHAKKEREESLPNLLQYVRMPLLTTRYITDVIDAEP  
FIRCSLQCRDLVDEAKKFHLRPELRSQMGPRTARLGANEVLLVVGFGSQSPIDVVE

KYDPKTEWSFLPSITRKRRYVASVSLHDIYVIGGYDGRSRLSSVECLDYTADEDGVWY  
SVAPMNVRRLAGATTLGDMIYVSGGFDGSRRHSTSMERYDPNIDQWSMLGDMQTAREGAG  
LVVASGVIIYCLGGYDGLNILNSVEKYDPHTGHWTNVTMPATKRSGAGVALLNDHIYVVG  
FDGTAHLSSVEAYNIRTDSTWTTVTSMITTPRCYVGATVLRGRLYAIAGYDGNLSLLSSIECY  
DPIIDSWEVVTSMTGQRCDAAGVCVLREK

>sp|Q6TDP4|KLH17\_HUMAN Kelch-like protein 17 OS=Homo sapiens GN=KLHL17 PE=2 SV=1

MQPRSERPAGRTQSPHEGSPGPGEAPPPPPQPPAPEAERTRPRQARPAAPMEGAVQLL  
SREGHSAHNSKRHYHDAFVAMSRMRQRLCDIVLHVAAKEIRAHKVVLASCSFYHAM  
FTNEMSESRTHTVTLHDIDPQALDQLVQFAYTAEIVVGEGNVQTLPAASLLQLNGVRDA  
CCKFLLSQLDPSNCLGIRGFADAHSCDLLKAAHRYVLQHFVDVAKTEEFMLLPLKQVLE  
LVSSDSLNVPSSEEEVYRAVLSWVKHVDVARRQHVPRLMKCVRLPLLSRDFLLGHVDAESL  
VRHHPDCKDLLIEALKFHLLPEQRGLGTSTRPRRCEGAGPVLFVAGGSLFAIHGDCE  
AYDTRTDNRWHVASMSTRRARVGAAGVGNRLYAVGGYDGTSDLATVESYDPVTNTWQPEV  
SMGTRRSCLGVAALHGLLYSAGGYDGASCLNSAERYDPLTGTWTSVAAMSTRRRYVRVAT  
LDGNLYAVGGYDSSSLATVEKYEPPQVNVWSPVASMLSRSSAGVAVLEGALYVAGGNDG  
TSCLSVERYSPKAGAWESVAPMNIRRSTHDLVAMDGWLYAVGGNDGSSSLNSIEKYNPR  
TNKWAASCMFTRRSSVGVAVLELLNFPPSSPTLSVSSTSL

>sp|Q6TFL4|KLH24\_HUMAN Kelch-like protein 24 OS=Homo sapiens GN=KLHL24 PE=2 SV=1

MVLILGRRLNREDLGVRDSPATKRKVFEMDPKSLTGHEFFDFSSGSSHAENILQIFNEFR  
DSRLFTDVIICVEGKEFPCHRAVLSACSSYFRAMFCNDHRESREMLVEINGILAEAMECF  
LQYVYTGKVKITTENVQYLFETSSLFQISVLRDACAKFLEEQLDPCNCLGIQRFADTHSL  
KTLFTKCKNFALQTFEDVSQHEEFLELDKDELIDYICSDELVIGKEEMVFEAVMRWVYRA  
VDLRRPLLHELLTHVRLPLLHPNYFVQTVEDQLIQNSPECYQLHEARRYHILGNEMMS  
PRTRPRRSTGYSEIVVVGCCERVGGFNLPTYECYDPTGEWKSALKEFTKSEYAVCA  
LRNDILVSGGRINSRDVWIYNSQLNIWIRVASLNKGRWRHKMAVLLGKVYVVGYYDGGNR  
LSSVECYDSFSNRWTEVAPLKEAVSSPAVTSCVGKLFVIGGGPDNTCSDKVQSYDPETN  
SWLLRAAIIAKRCITAVSLNNLIYVAGGLTKAIYCYDPVEDYWMHVQNTFSRQENCGMS  
VCNGKIYILGGRRENGEATDTILCYDPATSIITGVAAMP RPVS YHGCVTIHRYNEKCFKL

>sp|Q53HC5|KLH26\_HUMAN Kelch-like protein 26 OS=Homo sapiens GN=KLHL26 PE=1 SV=2

MAESGGSSGGAGGGGAFGAGPGPERPNSTADKNGALKCTFSAPSHSTSLQGLATLRAQG  
QLLDVVLTLINREAFPAHKVLAACSDYFRAMFTGGMREASQDVIELKGVSAAGLRHIIDF  
AYSAEVTLDLDCVQDVLGAAVFLQMLPVVELCEEFLKAAMSVETCLNIGQMATTFSLASL  
RESVDAFTFRHFLQIAEEEDFLRLPLERLVFFLQSNRLQSCAEIDLFRAAVRWLQHDPAR  
RPRASHVLCHIRFPLMQSSELVDSVQTLDIMVEDVLCRQYLLEAFNYQVLPFRQHEMQSP  
RTAVRSDVPSLVTFGGTPYTDSDRSVSSKVYQLPEPGARHFRELTEMEVGSHTCVAVLD  
NFVYVAGGQHLQYRSGEGAVDACRYRDPHLNRWLRQAMQESRIQFQLNVLCGMVYATGG  
RNRAGSLASVERYCPRRNEWGYACSLKRRTWGHAGAASGGRLYISGGYGISVEDKKALHC  
YDPVADQWEFKAPMSEPRVLHAMVGAGGRIYALGGRMDHVDRCFDVLAVEYYVPETDQWT  
SVSPMRAGQSEAGCCLLERKIYIVGGYNWRLNNTGIVQVYNTDTDEWERDLHFPESFAG  
IACAPVLLPRAGTRR

>sp|Q8N4N3|KLH36\_HUMAN Kelch-like protein 36 OS=Homo sapiens GN=KLHL36 PE=1 SV=1

MMEGSRQTRVSRPYKISESSKVYRWADHSSTVLQRLNEQRLRGLFCDVVLVADEQRVPAH  
RNLLAVCSDYFNMSFTIGMREAFQKEVELIGASYIGLKAVVDFLYGGELVLDGGNIDYVL  
ETAHLLQIWTVVDFCCEYLEQEVSSEDNYLYLQELASIYSLKRLDAFIDGFILNHFGTLSF

TPDFLQNVSMQKLCVYLSSEVQRECEHDLQAALQWLTQQPEREAHARQVLENIHFPLI  
PKNDLLHRVKPAVCSLLPKEANCEGFIEEAVRYHNNLAAQPMQTKRTALRTNQRLLFV  
GGEVSERCLESDDTCYLDakseQWVKETPLPARRSHHCVAVLGGFIFIAGGSFSRDNGG  
DAASNLLYRYDPRCKQWIKVASMNQRRVDFYLASIEDMLVAIGGRNENGALSSVETYSK  
TDSWSYVAGLPRFTYGHAGTIYKDFVYISGGHDYQIGPYRKNLLCYDHRTDVWEERPMT  
TARGWHSMCSLGDSIYSIGGSDDNIESMERFDVLGVEAYSPQCQWTRVAPLLHANSESG  
VAVWEGRIYILGGYSWENTAFSKTVQVYDREADKWSRGVDLPKAIAGGSACVCALEPRPE  
DKKKKGKGRHQDRGQ

>sp|Q2WGJ6|KLH38\_HUMAN Kelch-like protein 38 OS=Homo sapiens GN=KLHL38 PE=1 SV=3

MDEESLDGLLFKDHFSSDLLRQLNSLRQSRLTDVSIAGAREIPCHRNVLASSSPYFR  
AMFCSSFREKSEAKVQLKGIDPPTLDQIVSYVYTGEAHIATDNVLPVMEAASMLQFPKLF  
EACSSYLQSLAPSNCLGMIRLSEILSCETLKKKAREVALTSFEVAASADLKELCALEL  
RDYLGDDGLCGEEKVFALMVWIKHDLQARKRYMQELFKQVRLQYIHPAFFHHFIANDA  
LLQSSPACQIILETAKRQMFSLCGTTVPDCKLLHVPPRNSYQDFLILLGGRKDSQQTTR  
DVLLYSKQTGWQSLAKLPTRLKASAITLHRSIYVLGGMVSSGRSLVSHNVYIFSLKL  
NQWRLGEPMLVARYSHRSTAHKNFIFSIGGIGEGQELMGSMERYDSICNVWESMASMPVG  
VLHPAVAVKDQRLYLFGGEDIMQNPVRLIQVYHISRNSWFKMETRMKNVCAPAVLGER  
IVIVGGYTRRILAYDPQSNKFVKCADMKDRRMHHGATVMGNKLYVTGGRRLLTDCNIEDS  
ASFDCYDPETDTWTSQGQLPHKLFDHACLTLCIPRTSGLP

>sp|O60662|KLH41\_HUMAN Kelch-like protein 41 OS=Homo sapiens GN=KLHL41 PE=1 SV=2

MDSQRELAELRLYQSTLLQDGLKDLDDEKFIIDCTLKAGDKSLPCHRLILSACSPYFRE  
YFLSEIDEAKKKEVLDNVDPAILDLIIKYLVSASIDLNDGNVQDIFALASRFQIPSVFT  
VCVSYLQKRLAPGNCLAILRLGLLLDCPRLAISAREFVSDRFVQICKEEDFMQLSPQELI  
SVISNDSLVEKEEAVFEAVMKWVRTKENRVKNLSEVFDCIRFLMTEKYFKDHVEKDD  
I IKSNDLQKKIKVLKDAFAGKLPEPSKNAAKTGAGEVNGDVGEEDLLPGYLNDIPRHGM  
FVKDLILLVNDTAAVAYDPTENECYLTALAEQIPRNHSSIIVTQQNQIYVVGGLYVDEENK  
DQPLQSYFFQLDSIASEWVGLPPLPSARCLFGLGEVDDKIYVVAGKDLQTEASLDSVLCY  
DPVAAKWNEVKKLPIKVYGHNVISHKGMICYLGGKTDDKKCTNRVIFNPKKGDWKDLAP  
MKIPRSMFGVAVHKGKIVIAGGVTEGLSASVEAFDLTTNKWDVMTFEPQERSSISLVSL  
AGSLYAIGGFAMIQLESKEFAPTEVNDIWKYEDDKKEWAGMLKEIRYASGASCLATRLNL  
FKLSKL

>sp|Q9NR64|KLHL1\_HUMAN Kelch-like protein 1 OS=Homo sapiens GN=KLHL1 PE=2 SV=1

MSGGRKDFDVKHILRLRWKLFSPSPSTGGPAGGGCLQQDGSFSFEHWGPSQSRLKLSQ  
ERSGVSTFWKKPSSSSSSSSSSSSSSFNPLNGTLLPVATRLQQGAPGQGTQQPARTLF  
YVESLEEEVVPGMDFPGPHEKGLVLQELKVEPDNSSQATGEGCGHRLSSTGHSMTQSDL  
DSSSSEEFYQAVHHAETFRKMESYLKQQQLCDVILIVGNRKIPAHRLVSSVSDYFAAM  
FTSDVCEAKQEEIKMEGIDPNALWDLVQFAYTGCELEKEDTIENLLAAACLLQLPQVVEV  
CCHFLMKLLHPSNCLGIRAFADAQGCIELMKVAHSYTMENIMEVIRNQEFLLLPAAELHK  
LLASDDVNVPDEETIFHALMMWVKYDMQSRCNDLSMLLAFIRLPLPPQILADLENHALF  
KNDLECCQLILEAMKYHLLPERRTLMSPTKPRKSTVGTLYAVGGMDNKGATTIEKYD  
LRTNLWIQAGMMNGRRLQFGVAVIDDKLFVIGGRDGLKTLNTEVCYNPKTKTWTVLPMS  
THRHLGVTVLEGPYIYAVGGHDGWSYLNTERWDPQSQQTTFVASMISARSTVGVAALNG  
KLYSVGGRDGSSCLSSMEYYDPHTNKWNMCAPMCKRRGGVGVATCDGFLYAVGGHDAPAS  
NHCSRLLDYVERYDPKTDWTMVAPLSMPRAVGVCLLGDRLYAVGGYDGGTYLNTMESY

DPQTNEWTQMASLNIGRAGACVVVIKQP

>sp|095198|KLHL2\_HUMAN Kelch-like protein 2 OS=Homo sapiens GN=KLHL2 PE=1 SV=2

METPPLPPACTKQGHQKPLDSKDDNTEKHCPVTVPNPHMKKAFKVMNELRSQNLLCDVTI  
VAEDMEISAHRVVLAACSPYFHAMFTGEMSESRAKRVRIKEVDGWTLRMLIDYVYTAEIQ  
VTEENVQVLLPAAGLLQLQDVKKTCCEFLESQ LHPVNCLGIRAFADMHACTDLLNKANTY  
AEQHFADVVLSEEFNLGIEQVCSLISSDKLTISSEKVF EAVIAWVNHDKDVRQEFMAR  
LMEHVRLPLLPREYLVQRVEEEALVKNSSACKDYLIEAMKYHLLPTEQRILMKSVRTRLR  
TPMNLPKLMVVVGGQAPKAIRSV ECFKEERWHQVAELPSRRCRAGMVYAGLVFAVGG  
FNGSLRVRTVDSYDPVKDQWTSVANMRDRRSTLGAAVLNGLLYAVGGFDGSTGLSSVEAY  
NIKSNEWFHVAPMNTRRSSVGVGVGGLLYAVGGYDGASRQCLSTVECYNATTNEWTYIA  
EMSTRRSAGVGVLNNLLYAVGGHDGPLVRKSVEVYDPTTNAWRQVADMNMCRNAGVCA  
VNGLLYVVGDDGSCNLASVEYYPNTTDKWTVVSSCMSTGRSYAGVTVIDKPL

>sp|Q8WZ60|KLHL6\_HUMAN Kelch-like protein 6 OS=Homo sapiens GN=KLHL6 PE=1 SV=3

MLMAGQQRGAWTMGDVVEKSLEGPLAPSTDEPSQKTGDLVEILNGEKVKFDDAGLSLILQN  
GLETLRMENALTDVILCVDIQEFSCHRVVLAASNYFRAMFCNDLKEKYEKRIIIKGVDA  
ETMHTLLDYTYSKALITKQNVQRVLEAANLFQFLRMVDACASFLTEALNPENCVGILRL  
ADTHSLDSLKKQVQSYIIQNFVQILNSEEFDLDPVDTLHHILKSDDLVT EEAQVFETVM  
SWVRHKPSERLCLLPYVLENVRLPLDPWYFVETVEADPLIRQCPEVFPLLQEARMYHLS  
GNEIISERTKPRMHEFQSEVFMIIGGCTKDERFVAEVTCLDPLRRSRLEVAKLPLTEHEL  
ESENKKWVEFACVTLKNEVYISGGKETQHDVWKYNSSINKWIEYLNIGRWRHKMVVLG  
GKVYVIGGFDGLQRINNVETYDPFHNCWSEAAPLLVHVSSFAATSHKKKLYVIGGGPNGK  
LATDKTQCYDPSTNKWSLKAAMPVEAKCINAVSFRDRIYVVGAMRALYAYSPLEDSWCL  
VTQLSHERASCGIAPCNNRLYITGGRDEKNEVIATVLCWDPEAQKLTEECVLPRGVSHHG  
SVTIRKSYTHIRRIVPGAVSV

>sp|P06870|KLK1\_HUMAN Kallikrein-1 OS=Homo sapiens GN=KLK1 PE=1 SV=2

MWFLVLCLALSLGGTGAAPPIQSRIVGGWECEQHSQPWQAALYHFSTFQCGGILVHRQWV  
LTAHCISDNYQLWLGRHNLFDDENTAQFVHVSESFPHPGFNMSLLENHTRQADEDYSHD  
LMLRLTEPADTITDAVKVVELPTEEPEVGSTCLASGWSIEPENFSFPDDLQCVDLKIL  
PNDECKKAHVQKVTFMLCVGHLEGGKDTCVGDSGGPLMCDGVLQGVTSWGYVPCGTPNK  
PSVAVRVLSYVKWIEDTIAENS

>sp|P20151|KLK2\_HUMAN Kallikrein-2 OS=Homo sapiens GN=KLK2 PE=1 SV=1

MWDLVLSIALSVGCTGAVPLIQSRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWV  
LTAACHCLKNSQVWLGRHNLFEPEDTGQRPVSHSFPHPLYNMSLLKHQSLRPDEDSSHD  
LMLRLSEPAKITDVVKVLGLPTQEPALGTTCYASGWSIEPEEFLRPRSLQCVSLHLLS  
NDMCARAYSEKVTEFMLCAGLWTGGKDTCCGDSGGPLVCNGVLQGITSWGPEPCALPEKP  
AVYTKVVHYRKWIKDTIAANP

>sp|Q9Y5K2|KLK4\_HUMAN Kallikrein-4 OS=Homo sapiens GN=KLK4 PE=1 SV=2

MATAGNPWGWLGYLILGVAGSLVSGSCSIINGEDCSPHSQPWQAALVMENELFCSGVL  
VHPQWVLSAAHCFQNSYITIGLGLHSLEADQEPGSMVEASLSVRHPEYNRPLLANDLMLI  
KLDESVS ESDTIRSISIASQCPTAGNSCLVSGWGLLANGRMPTVLQCVNVSVVSEEVCSK  
LYDPLYHPSMFCAGGGHDQKDS CNGDSGGPLICNGYLQGLVSFGKAPCGQVGPVGYTNL  
CKFTEWIEKTQAS

>sp|Q9Y337|KLK5\_HUMAN Kallikrein-5 OS=Homo sapiens GN=KLK5 PE=1 SV=2

MATARPPWMWVLCALITALLGVTEHVLANNVSCDHPSNTVPSGSNQDLGAGAGEDARS



DDSSSRIINGSDCDMHTQPWQAALLLRPNQLYCGAVLVHPQWLLTAAHCRKKVFRVRLGH  
YSLSPVYESGQQMFQGVKSIHPGYSHPGHSNNMLIKLNRRI RPTKDVRPINVSSHCP  
AGTKCLVSGWGTTKSPQVHFVKVLQCLNISVLSQKRCEDAYPRQIDDTMFCAGDKAGRDS  
CQGDSSGGPVVCGSLQGLVSWGDYPCARNRPGVYTNLCKFTKWIQETIQANS

>sp|P49862|KLK7\_HUMAN Kallikrein-7 OS=Homo sapiens GN=KLK7 PE=1 SV=1

MARSLLLPLQILLLSLALETAGEEAQGDKIIDGAPCARGSHPWQVALLSGNQLHCGGVLV  
NERWVLTAAHCKMNEYTVHLGSDTLGDRRAQRIKASKSFRHPGYSTQTHVNDLMLVKLNS  
QARLSSMVKKVRLPSRCEPPGTTCTVSGWGTTTSPDVTFPSDLMCVDVKLISPQDCTKVY  
KDLLENSMLCAGIPDSKKNACNGDSSGGPLVCRGTLQGLVSWGTFPCGQPNDPGVYTQVCK  
FTKWINDTMKKHR

>sp|Q9NZS2|KLR1\_HUMAN Killer cell lectin-like receptor subfamily F member 1 OS=Homo sapiens GN=KLR1 PE=1 SV=2

MQDEERYMTLNVQSKKRSSAQTSLTFKDYSVTLHWYKILLGISGTVNGILTTLISLIL  
LVSGVLLKCKQKSGCSNATQYEDTGDLKVNNGTRRNISNKLDCASRSADQTVLCQSEWLK  
YQKKCYWFSNEMKSWSDSYVYCLERKSHLLIIHDQLEMAFIQKNLRQLNYVWIGLNFTS  
LKMTWTWVDGSPIDSKIFFIKGPAKENSAAIKESKIFSETCSSVFKWICQY

>sp|A4D1S0|KLR2\_HUMAN Killer cell lectin-like receptor subfamily G member 2 OS=Homo sapiens GN=KLR2 PE=1 SV=3

MEESWEAAPGGQAGAELPMEPVGSLVPTLEQPQVPAKVRQPEGPESSPSPAGAVEKAAGA  
GLEPSSKKKPPSPRPGSPRVPLSLGYGVCPEPPSPGPALVKLPRNGEAPGAEPAPSAWA  
PMELQVDVRVKPVGAAGGSSTSPRPSTRFLKVPVPESPAFSRHADPAHQLLL RAPSQGG  
TWGRRSPLAAARTESGDAEGRASPAEGSAGSPGSPGCCCKELGLEKEDAALLPRAGLD  
GDEKLPRAVTLTGLPMYVKSLYWALAFMAVLLAVSGVIVVLASRAGARCQQCPGWVLS  
EEHCYFSAEAQAWASQAFCSAYHATLPLLSHTQDFLG RYPVSRHSWVGAWRGPQGWHW  
IDEAPLPPQLLPEDGEDNLDINCGALEEGTLVAANCSTPRPWCAKGTQ

>sp|O94806|KPCD3\_HUMAN Serine/threonine-protein kinase D3 OS=Homo sapiens GN=PRKD3 PE=1 SV=1

MSANNSPPSAQKSVLPTAIPAVLPAASPCSSPKTGLSARLSNGSFSAPSLTNSRGSVHTV  
SFLQIGLTRESVTIEAQELSLSAVKDLVCSIVYQKFPECGFFGMYDKILLFRHDMNSEN  
ILQLITSADEIHEGDLVEVVL SALATVEDFQIRPHTLYVHSYKAPTFCDYCGEMLWGLVR  
QGLKCEGCGLNHYKRCFAFKIPNNCSGVRKRRLSNVSLPGPGLSVPRPLQPEYVALPSEES  
HVHQEPSKRIPSWGRPIWMEKMVMCRVKVPHTFAVHSYTRPTICQYCKRLLKGLFRQGM  
QCKDCKFNCHKRCASKVPRDCLGEVTFNGEPSSLGTDIDPMDIDNNDINS DSSRGLDDT  
EPPSPPEDKMFFLDPSDLDEVERDEEAVKTISPSTSNIPLMRVVQSIKHTKRKSSTMVKE  
GWMVHYTSRDNLKRHYWRLDSKCLTLFQNESGSKYYKEIPLSEILRISSPRDFTNISQG  
SNPHCFEIIITDMVYFVGENNGDSSHNPLAATGVGLDVAQSWEKAIRQALMPVTPQASV  
CTSPGQKGDHKLSTSI SVSNCQIQENVDISTVYQIFADEVLGSGQFGIVYGGKHKRKTGR  
DVAIKVIDKMRFP TKQESQLRNEVAILQNLHHPGIVNLECMFETPERVFVMEKLHGDML  
EMILSSEKSRLPERITKFMVTQILVALRNLHFKNIVHCDLKPENVLLASAEPFPQVKLCD  
FGFARIIGEKSFRRSVVGTPAYLAPEVLRSGKYNRSLDMWSVGVIIVVSLSGTFPFNEDE  
DINDQIQNAAFMYPPNPWREISGEAIDLINNLLQVKMRKRYSDKSLSHPWLQDYQTWLD  
LREFETRIGERYITHESDDARWEIHAYTHNLVYPKHFIMAPNPDDMEEDP

>sp|P60368|KR102\_HUMAN Keratin-associated protein 10-2 OS=Homo sapiens GN=KRTAP10-2 PE=2 SV=1

MAASTMSICSSACTNSWQVDDCPESCCELPCGTPSCCAPAPCLTLVCTPVSCVSSPCCQA  
ACEPSACQSGCTSSCTPSCCQSSCQPACCTSSPCQQACCVPVCKPVCCVPVCCGASSC  
CQSSCQPACASSCQQSCRVPVCKAVCCVPTCSESSSSCCQSSCQPACCTSSPCQQ  
SCCVSVCKPVCKSICCVPVCSGASSPCCQSSCQPACCTSSCCRPSSSVSLLCRPVCS  
RPASCSFSSGQKSSC

>sp|P60370|KR105\_HUMAN Keratin-associated protein 10-5 OS=Homo sapiens GN=KRTAP10-5 PE=1  
SV=2

MAACTMSVCSSACSDSWRVDDCPESCCEPPCGTAPCLTLVCTPVSCVSSPCCQAACEPSP  
CQSGCTSSCTPSCCQPACASSPCQQACCVPVCKPVCCLPCTCSKSSSCCQSSCQPTC  
CASSCQSSCVPVCKPVCCVPTCSEDSSSCQHSSCQPTCCTSSPCQQSCYVPVCKP  
VCFKPICCVPVCSGASTSCCQSSCQPACCTSSCCRPSSSVSLLCRPICRPACCVPISSC  
CAPASSYQASCCRPASCVSLLCRPACSRAC

>sp|P60413|KR10C\_HUMAN Keratin-associated protein 10-12 OS=Homo sapiens GN=KRTAP10-12  
PE=2 SV=1

MSVCSSDL SYGRVCLPGSCDSCSDSWQVDDCPESCCEPPCCAPAPCLSLVCTPVSRVSS  
PCCRVTCESPSCQSGCTSSCTPSCCQSSCQPACCTSSPCQQACCVPVCKTVCKPVCC  
MPVCCGPSSSCCQSSCQPACCISSPCQQSCCVPVCKPICCVPVCSGASSLCCQSSCQ  
PACCTTSCRPSSSVSLLCRPVCRRPARRVPVPSCCVPTSSCQPSGRLASCGSLLCRPTC  
SRLAC

>sp|Q52LG2|KR132\_HUMAN Keratin-associated protein 13-2 OS=Homo sapiens GN=KRTAP13-2 PE=2  
SV=1

MSYNCCSGNFSSRSCGDYLRYPASSRGRFSYPSNLVYSTDLCPSTCQLGSSLYRGCQEIC  
WEPTSCQTSYVESSPCQTSCYRPRTSLLCSPCKTTYSGSLGFGSSSCRSLGYGSRSCYSV  
GCGSSGVRSLGYGSCGFPSLGYSGFCRPTYLASRSCQSPCYRPAYGSTFCRSTC

>sp|Q8IUB9|KR191\_HUMAN Keratin-associated protein 19-1 OS=Homo sapiens GN=KRTAP19-1 PE=2  
SV=2

MSHYGSYYGLGYSCGGFGLGYGYGCGGSGFCRRGSGCGYGGYGYSGFGSGYGYSGFG  
GYGYSGFGGYGYGCCRPSYNGGYGFSGFY

>sp|Q3LI73|KR194\_HUMAN Keratin-associated protein 19-4 OS=Homo sapiens GN=KRTAP19-4 PE=3  
SV=1

MSYGYSYRGLGYGCGGFGGLGYGYGCGGSGFRRLGYGCGFGNGYGYCRPSCYGGYGFS  
ILLKSYPEDTISEVIRRSFNLTXY

>sp|Q3LI81|KR271\_HUMAN Keratin-associated protein 27-1 OS=Homo sapiens GN=KRTAP27-1 PE=2  
SV=1

MPHSHCHSLRSFHNAPPLSAITHGTNPITFEDRLCLPSSFHSRTCFLDNFQETCNETTSC  
QMTNCEQDLFTDDSCVQSNCFPGVVQTTYNSRPCERTACQSESSSAGLACVSQPCQSES  
TQQMGFVAQSCQPASLKGNSCPKTSKSKNFETLERASSQCQCQSQNPESSSCRPLVNVA  
PEPQLLESSPGVEPTCCVTGGSQLPK

>sp|POC5Y4|KRA14\_HUMAN Keratin-associated protein 1-4 OS=Homo sapiens GN=KRTAP1-4 PE=2  
SV=1

MASCSTSGTCGSSCCQPSCCETSCCQPSCCQTSSCGTGGIGGGIGYGQEGSGGSVSTRI  
RWCHPDCHVEGTCLPPCYLVSTTPSCCQLHHAEEASCCRPSCYCGQSCCRPACCHCCEPT

C

>sp|Q9BYS1|KRA15\_HUMAN Keratin-associated protein 1-5 OS=Homo sapiens GN=KRTAP1-5 PE=2 SV=1

MTCCQTSFCGYPSFSISGTCGSSCCQPSCCETSCCQPRSCQTSFCGFPSFSTSGTCSSSC  
CQPSCCETSCCQPSCCETSCCQPSCCQISSCGTGCIGGGISYGQEGSSGAVSTRIRWCR  
PDSRVEGYTLPPCCVVVSCTPPSCCQLHHAQASCCRPSYCGQSCCRPVCCCEPTC

>sp|Q3LI67|KRA63\_HUMAN Keratin-associated protein 6-3 OS=Homo sapiens GN=KRTAP6-3 PE=3 SV=3

MCGSYRNYNGGHGYGCCGYGGLGCGYGGCGYGCCGYGGLGFGYGGLDCGYGGLGCGYGS  
FCGCGYRGLDCGYGCGYGVVSHSFCGCGYRCGSGYGSSFGYYY

>sp|Q8IUC3|KRA71\_HUMAN Keratin-associated protein 7-1 OS=Homo sapiens GN=KRTAP7-1 PE=2 SV=2

MTRYFCGGSYFPGYPIYGTNFHGTFRATPLNCVVPLGSPLNYGCGCNGYSSLGYSFGGSN  
INNLGCGYGSFYRPWGSFGFYSTY

>sp|Q9NPI7|KRCC1\_HUMAN Lysine-rich coiled-coil protein 1 OS=Homo sapiens GN=KRCC1 PE=2 SV=1

MKHSKKTYDSFQDELEDYIKVQKARGLEPKTCFRKMKGDYLETCGYKGEVNSRPTYRMFD  
QRLPSETIQTYPRSCNIPQTVENRLPQWLP AHDSRLRLDSL SYCQFTRDCFSEKPVPLNF  
NQQEYICGSHGVEHRVYKHFSSDNSTSTHQASHKQIHQKRKRHP EEGREKSEEERSKHKR  
KKSCEEIDL DKHKS IQRKKTEVEIETVHVSTEKLKNRKEKKS RDVVSKEERKRTKKKKE  
QGQERTEEEMLWDQSILGF

>sp|Q96S38|KS6C1\_HUMAN Ribosomal protein S6 kinase delta-1 OS=Homo sapiens GN=RPS6KC1 PE=1 SV=2

MTSYRERSADLARFYTVTEPQRHPRGYTVYKVTARVVSRRNPEDVQEII VWKRYSDFKKL  
HKELWQIHKNLFRHSELFPFPAKGIVFGRFDETVEERRQCAEDLLQFSANIPALYNSKQ  
LEDFFKGGIINDSSELIGPAEAHSDSLIDTFPECSTEGFSSDSLDVSLTVDVDSLAELDD  
GMASNQNSPIRTFGLNLSSDSSALGAVASDSEQSKTEERESRSLFPGSLKPKLGKRDYL  
EKAGELIKLALKKEEEDDYEAASDFYRKGVDLLLEGVQGESSPTRREAVKRRTAEYLMRA  
ESISSLYGKPLDDVSQPPGSLSSRPLWNLRSPAEELKA FRVLGVIDKVLLVMDTRTEQT  
FILKGLRKSSEYSRNRKTIIPRCVPNMVCLHKYIISEESVFLVLQHAEGGKLWSYISKFL  
NRSPEESFDIKEVKKPTLAKVHLQQPTSSPQDSSSFESRGSDGGSMLKALPLKSSLTPSS  
QDDSNQEDDGQDSSPKWPDSGSSSEEECTTSYLTLCNEYGQEKIEPGSLNEEPPFMKTEGN  
GVDTKAIKSFPAHLAASDSPSTQLRAHELKFFPNDDPEAVSSPRTSDLSRSKNSPMEF  
FRIDSKDSASELLGLDFGEKLYSLKSEPLKPFFTLPDGDSASRSFNTSESKVEFKAQDTI  
SRGSDSVPVVISFKDAAFDDVSGTDEGRPDLLVNLPGELESTREAAAMGPTKFTQTNIGI  
IENKLEAPDVLCLRLSTEQCQAHEEKGIEELSDPSGPKSYSITEKHYAQEDPRMLFVAA  
VDHSSSGDMSLLPSSDPKFQGLGVVESAVTANNTESLFRICSPLSGAN EYIASTDTLKT  
EEVLLFTDQTDLAKKEPTSLFQRDSETKGESGLVLEGDK EIHQIFEDLDKKLALASRFY  
IPEGCIQRWAAEMVVALDALHREGIVCRDLNPNILLNDRGHIQLTYFSRWSEVEDSCDS  
DAIERMYCAPEVGAI TEETEACDWWSLGAVLFELLTGKTLVECHPAGINTHTTLNMPECV  
SEEARSLIQQLLQFNPLERLGAGVAGVEDIKSHPFFTPVDWAE LMR

>sp|Q96EK9|KTI12\_HUMAN Protein KTI12 homolog OS=Homo sapiens GN=KTI12 PE=1 SV=1

MPLVVFCLPYSGKSRRAEELRV ALAAEGRAVYVVDAAVLGAEDPAVYGDSAREKALRG  
ALRASVERRLSRHDVVILDSLNYIKGFYELYLCLARAARTPLCLVYCVRPGGPIAGPQVA  
GANENPGRNVSVSWRPRAEEDGRAQAAGSSVLRELHTADSVVNGSAQADVPKELEREESG

AAESPALVTPDSEKSAKHGSGAFYSPELLEALTLRFEAPDSRNRWDRPLFTLVGLEEPLP  
LAGIRSALFENRAPPHPHSTQSQPLASGSFLHQLDQVTSQVLAGLMEAQKSAVPGDLLTL  
PGTTEHLRFRPLTMAELSRLRRQFISYTKMHPNNENLPQLANMFLQYLSQSLH

>sp|075449|KTNA1\_HUMAN Katanin p60 ATPase-containing subunit A1 OS=Homo sapiens GN=KATNA1  
PE=1 SV=1

MSLLMISENVKLAREYALLGNYDSAMVYYQGVLDMNKYLYSVKDTYLQQKWQQVWQEIN  
VEAKHKVDIMKTLESFKLDSTPLKAAQHDLPASEGEVWSMPVPVERRPSPGPRKRQSSQY  
SDPKSHGNRPSTTVRHRSSAQNVHNDRGKAVRCREKKEQNGREEKNKSPAAVTEPETN  
KFDSTGYDKDLVEALERDIISQNPVNRWDDIADLVEAKKLLKEAVVLPWMWPEFFKGIRR  
PWKGVLVVGPPGTGKTLAKAVATECKTTFNFVSSSTLTSKYRGESEKLVRLLFEMARFY  
SPATIFIDEIDSICSRRTSEEHEASRRVKAELLVQMDGVGGTSENDPSKMVMVLAATN  
FPWDIDEALRRRLEKRIYIPLPSAKGREELLRISLRELELADDVDLASIAENMEGYSGAD  
ITNVCRDASLMAMRRRIEGLTPEEIRNLSKEEMHMPTTMEFEMALKKVSXSVSAADIER  
YEKWIFEFGSC

>sp|P04433|KV311\_HUMAN Immunoglobulin kappa variable 3-11 OS=Homo sapiens GN=IGKV3-11  
PE=1 SV=1

MEAPAQLLFLLLLWLPDTTGEIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKP  
GQAPRLLIYDASNRATGIPARFSGSGGTDFTLTISSLEPEDFAVYYCQQRNWP

>sp|P01615|KVD28\_HUMAN Immunoglobulin kappa variable 2D-28 OS=Homo sapiens GN=IGKV2D-28  
PE=1 SV=2

MRLPAQLLGLLMLWVSGSSGDIVMTQSPLSLPVTGPGEPAISCRSSQSLLHSNGYNYLDW  
YLQKPGQSPQLLIYLSNRASGVPDFRFGSGSGTDFTLKISRVEAEDVGVYYCMQALQTP

>sp|P01614|KVD40\_HUMAN Immunoglobulin kappa variable 2D-40 OS=Homo sapiens GN=IGKV2D-40  
PE=1 SV=2

MRLPAQLLGLLMLWVPGSSDIVMTQTPLSLPVTGPGEPAISCRSSQSLLDSDDGNTYLD  
WYLQKPGQSPQLLIYLSYRASGVPDFRFGSGSGTDFTLKISRVEAEDVGVYYCMQRIEF  
P

>sp|A6NM11|L37A2\_HUMAN Leucine-rich repeat-containing protein 37A2 OS=Homo sapiens  
GN=LRR37A2 PE=2 SV=2

MSSAQCPALVCMSRLRFWGPWPLLMWQLLWLLVKEAQPLEWVKDPLQLTSNPLGPPDSW  
SSHSHFPRESHPATLPADPWDFDLHGPSASSEMPAPPQESTENLVPFLDTWDSAGEQP  
LEPEQFLASQQDLKDLSPQERLPVSPKKLKKDPAQRWSLAEIIGITRQLSTPQSQKQTL  
QNEYSSTDTYPGSLPELRVKSDEPPGPSEQVGPSQFHLEPETQNPETLEDIQSSSLQQ  
EAPAQLPQLLEEPSMMEAPALPPESSMESLTLNHEVSVQPPGEDQAYYHLPNITVK  
PADVEVITITSEPTNETESSQAQQTPIQFPPEVEPSATQQEAPIEPPVPPMEHLSISEQ  
QQPVQPSESPREVESSPTQQETPGQPPEHHEVTSPPGHHQTHHLASPSVSVKPPDVQLT  
IAAEPSAEVGTSLVHQEATTRLSGSGNDVEPPAIQHGGPPLLPESSSEAGPLAVQQETSF  
QSPEPINNENPSPTQQEAAAEHPQTAEEGESSLTHQEAPAQTPFPNVVVAQPPEHSHLT  
QATVQPLDLGFTITPESKTEVELSPTMKETPTQPPKKVVPQLRVYQGVNTPTPGQDQAQH  
PVSPSVTVQLLDLGLTITPEPTTEVGHSTPPKRTIVSPKHPEVTLPHPDQVQTQHSHTLR  
ATVQPLDLGFTITPKSMTEVEPSTALMTTAPPPGHPEVTLPPSDKGQAQHSHTLQATVQP  
LDLELTITTKPTTEVKPSPTTEETSTQPPDLGLAIPEPTTETRHSTALEKTTAPRPDRV  
QTLHRSLTEVTGPTELEPAQDSLVSQSESYTNKALTAPEEHKASTSTNICELCTCGDEM  
LSCIDLNPEQRLRQVPVPEPNTHNGTFTILNFQGNYSYIDGNVWKAYSWTEKLILRENN

LTELHKDSFEGLLSLQYLDLSCNKIQSIERHTFEPLPFLKFINLSCNVITELSFQTFQAW  
HGMQFLHKLILNHNPLTTVEDPYLFKLPALKYLDMGTTLVPLTTLKNILMMTVELEKLIL  
PSHMACCLCQFKNSIEAVCKTVKLHCNSACLNTTHCPEEASVGNPEGAFMKVLQARKNY  
TSTELIVEPEEPSDSSGINLSGFGSEQLDTNDESDFISTLSYILPYFSAVNLDVKSLLLP  
FIKLPTTGNSLAKIQTVGQNRQVRVLMGPRSIQKRHFKEVGRQSIIRREQGAQASVENA  
AEEKRLGSPAPREVEQPHTQQGPEKLAGNAVYTKPSFTQEHLAAVSVLKPFSGKAPSTSS  
PAKALPQVRDRWDLTHAISILESARVTNTKTSKPIVHARKKYRFHKTRSHVTHRTPK  
VKKSPKVRKKSYSRLMLANRPFSAASKLINSQSGAFSSLDLSPQENPFLEVSAPSE  
HFIENNNTKHTTARNAFEENDFMMENTNMPEGTISENTNYNHPHEADSAGTAFNLGPTVKQ  
TETKWEYNNVGTDLSPPEKSFNYPLLSSPGDQFEIQLTQQLQSLIPNNNVRRILAHVIRT  
LKMDCSGAHVQVTCAKLISRTGHLMKLLSGQGEVKASKIEWDTDQWKIENYINESTEAQS  
EQKEKSLELKKEVPGYGYTDKILALIVTGILTLILFCLIVICCHRRSLQEDEEGFSR  
GIFRFLPWGRCSSRRESQDGLSSFGQPLWFKDMYKPLSATRINNHAWLHKKSSNEDKIL  
NRDPGDSEAPTEEESEALP

>sp|Q9Y6C7|L3R2A\_HUMAN Putative uncharacterized protein encoded by LINC00312 OS=Homo sapiens GN=LINC00312 PE=5 SV=1

MAHHSNTFYIWHNNVLHHLVFFLPHLLNQPSRGSFLIWLLLCWNSWYHLRTLRRQAN  
QANKLSMMLLRVKQSPGKLCCHGDELSTGLLAT

>sp|O60309|L37A3\_HUMAN Leucine-rich repeat-containing protein 37A3 OS=Homo sapiens GN=LRR37A3 PE=2 SV=2

MTSAQCPALACVMSPLRFWGPWLLMWQLLWLVKEAQPLEWVKDPLQLTSNPLGPPEPW  
SSHSHFPRESHPATLPADPWDFDHLGPSASSEMPAPPQESTENLVPFLDTWDSAGELP  
LEPEQFLASQQDLKDLSPQERLPVSPKKLKKDPAQRWSLAEIIGIIHQSLTPQSQKQTL  
QNEYSSTDTPYPSGLPPELRVKSDEPPGPSEQVGPSQFHLEPETQNPETLEDIQSSSLQQ  
EAPALPQLLEEEPPSSMQEAPALPPESSMESLTLPNHEVSVQPPGEDQAYYHLPNITVK  
PADVEVTITSEPTNETESSQAQGETPIQFPPEVEPSATQQEAPIEPPVPPMEHELISEQ  
QQPVQPSSESSREVESSPTQGETPGQPPEHHEVTVSPPGHHQTHHLASPSVSVKPPDVQLT  
IAAEPSAEVGTSLVHQEATTRLSCSGNDVEPPAIQHGGPPLLPESSSEEAGPLAVQQETSF  
QSPEPINNENPSPTQEEAAAEHPQTAEEGESSLTHQEAPATPEFPNVVVAQPPEHSLT  
QATVQPLDLGFTITPESMTEVELSPTMKETPTQPPKKVVPQLRVYQGVNTPTPGDQAQH  
PVSPSVTVQLDLGLTITPEPTTEVGHSTPPKRTIVSPKHPEVTLPHPDQVQTQHSHTLR  
ATVQPLDLGFTITPKSMTEVEPSTALMTTAPPPGHPEVTLPPSDKGQAQHSHTLQATVQP  
LDLELTITTKPTTEVKPSPTTEETSTQLPDLGLAIIPEPTTETGHSTALEKTTAPRPDRV  
QTLHRSLEVTGPPTELEPAQDSLVSQSESYTQNKALTAPEEHKASTSTNICELCTCGDEM  
LSCIDLNPEQRLRQVPVPEPNTHNGTFTILNFQGNYSYIDGNVWKAYSWTEKLILRENN  
LTELHKDSFEGLLSLQYLDLSCNKIQSIERHTFEPLPFLKFINLSCNVITELSFQTFQAW  
HGMQFLHKLILNHNPLTTVEDPYLFKLPALKYLDMGTTLVPLTTLKNILMMTVELEKLIV  
PSHMACCLCQFKNSIEAVCKTVKLHCNSACLNTTHCPEEASVGNPEGAFMKVLQARKNY  
TSTELIIEPEEPSDSSGINLSGFGSEQLDTNDES DVTSTLSYILPYFSAVNLDVKSLLLP  
FIKLPTTGNSLAKIQTVGKNRQLNRVLMGPRSIQKRHFKEVGRQSIIRREQGAQASVENT  
AEEKRLGSPAPRELKQPHTQQGPEKLAGNAVYTKPSFTQEHLAAVSVLKPFSGKAPSTSS  
PAKALPQVRDRWDLTHAISILESARVTNMKTSKPIVHSRKKYRFHKTRSRMTHRTPK  
VKKSPKVRKKSYSRLMLSNRPFSAASKLINSQSGAFSSLRDLSPQENPFLEVSAPSE  
HFIENNNTKDTTARNAFEENVFMMENTNMPEGTISENTNYNHPPEADSAGTAFNLGPTVKQ

TETKWEYNNVGTDLSPPEKSFNYPLLSPPGDQFEIQLTQQLSVIPNNNVRRLIAHVIRT  
LKMDCSGAHVQVTCAKLVSRTHLMKLLSGQQEVKASKIEWDTDQWK TENYINESTEAS  
EQKEKSLEFTKELPGYGYTKKLILALIVTGILTIILCLIEICCHRRSLQEDEEGFSR  
DSEAPTEEESEALP

>sp|POCG05|LAC2\_HUMAN Ig lambda-2 chain C regions OS=Homo sapiens GN=IGLC2 PE=1 SV=1  
GQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTPSK  
QSNNKYAASSYLSLTPEQWKSHRSYSQCQVTHEGSTVEKTVAPTECS

>sp|POCG06|LAC3\_HUMAN Ig lambda-3 chain C regions OS=Homo sapiens GN=IGLC3 PE=1 SV=1  
GQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPAKAGVETTPSK  
QSNNKYAASSYLSLTPEQWKSHKSYSQCQVTHEGSTVEKTVAPTECS

>sp|Q14657|LAGE3\_HUMAN EKC/KEOPS complex subunit LAGE3 OS=Homo sapiens GN=LAGE3 PE=1 SV=2  
MRDADADAGGGADGGDGRGGHSCRGVDTAAPAGGAPPAHAPGPRDAASAARGSRMRP  
HIFTLSPFPPTLEAEIAHGSLAPDAEPHQRVVGKDLTVSGRILVVRWKAEDCRLLRISV  
INFLDQLSLVVRTMQRFPPVSR

>sp|Q13751|LAMB3\_HUMAN Laminin subunit beta-3 OS=Homo sapiens GN=LAMB3 PE=1 SV=1  
MRPFLLCFALPGLLHAQQACSRGACYPPVGDLLVGRTRFLRASSTCGLTKPETYCTQYG  
EWQMKCKCDSRQPHNYSHRVENVASSSGPMRWQSQNDVNPVSLQLDLDRRFQLQEVM  
MEFQGMPAGMLIERSSDFGKTWRVYQYLAADCTSTFPRVRQGRPQSWQDVRCQSLPQRP  
NARLNGGKVQLNMDLVSGIPATQSQKIQEVGEITNLRVNFTRLAPVPQRGYHPPSAYYA  
VSQRLQGSCFCHGHADRCAPKPGASAGPSTAVQVHDCVCQHNTAGPNCERCAPFYNNR  
PWRPAEQDAHECQRCDNGHSETCHFDPAVFAASQAGYGVCDNCRDHTGKNCERCQL  
HYFRNRRPGASIQETCISCECPDGAVPGAPCDPVTGQCVCKEHVQGERCDLCKPGFTGL  
TYANPQGCHRCDCNII LGSRRDMPDEESGRCLCLPNVVGPKDQCAPHYHWKLASGQGCEP  
CACDPHNSLSPQCQFTGQCPCREGFGGLMCSAAAIRQCPDRTYGDVATGCRACDCDFRG  
TEGPGCDKASGRCLCRPGLTGPRCDQCQRGYCNRYPVCVACHPCFQTYDADLREQALRFG  
RLRNATASLWSGPGLEDRLASRILDAKSKIEQIRAVLSSPAVTEQEVAQVASAILSLRR  
TLQGLQLDLPLEEETLSLPRDLESLSRDNGLTMYQRKREQFEKISSADPSGAFRMLST  
AYEQSAQAAQVSDSSRLDQLRDSRREAERLVRQAGGGGTGSPKLVALRLEMSSLPDL  
TPTFNKLCGNSRQMACTPI SCPGELCPQDNGTACGSRCRGVLPRAAGAFMAGQVAEQLR  
GFNAQLQRTRQMIRAAEESASQIQSSAQRL ETQVSASRSQMEEDVRRTRLLIQQVRDFLT  
DPD TDAATI QEVSEAVLALWLPDTSATVLQKMNEIQAI AARLPNVDLVLSQTKQDIARAR  
RLQAEAEARSRAHAVEGQVEDVVG NLRQGTVALQEAQDTMQGTSRSLRLIQDRVAEVQQ  
VLRPAEKLVTSMTKQLGDFWTRMEELRHQARQQGAEAVQAQQLAEGASEQALSAQEGFER  
IKQKYAELKDRLGQSSMLGEQGARIQSVKTEAEELFGETMEMMDRMKDMELELLRGSQAI  
MLRSADLTGLEKRVEQIRDHINGRVLYYATCK

>sp|P11047|LAMC1\_HUMAN Laminin subunit gamma-1 OS=Homo sapiens GN=LAMC1 PE=1 SV=3  
MRGSHRAAPALRPRGRLWPVLAVLAAAAAAGCAQAAMDECTDEGGRPQRCMPEFVNAAFN  
VTVATNTCGTPPEEYCVQTGTGTGVTKSCHLCDAGQPHLQHGA AFLTDYNNQADTTWWQS  
QTMLAGVQYPSSINLT LHLGKAFDITYVRLKFHTSRPESFAIYKRTREDGPWIPYQYYSG  
SCENTYSKANRGFIRTGGDEQQALCTDEFSDISPLTGGNVAFSTLEGRPSAYNFDNSPVL  
QEWVTATDIRVTNLRLNTFGDEVFNDPKVLKSYYYAISDFAVGGRCKCNHASECMKNEF  
DKLVCNCKHNTYGVDCCKLPFFNDRPWRRATAESASECLPCDCNGRSQECYFDPELYRS  
TGHGGHCTNCQDNTDGAHCERCENFFRLGNNEACSSCHCSPVGSLSLSTQCD SYGRCSCKP  
GVMGDKCDRCQPGFHSLTEAGCRPCSCDPSGSIDECNIETGRCVCKDNVEGFNCERCKPG

FFNLESSNPRGCTPCFCFGHSSVCTNAVGYSVYSISSTFQIDEDGWRAEQRDGSEASLEW  
SSERQDIAVISDSYFPRYFIAPAKFLGKQVLSYGQNLFSFRVDRRDTRLAEDLVLEGA  
GLRVSVPLIAQGSNSYPSETTVKYVFRLEATDYPWRPALTPFEFQKLLNNLTSIKIRGT  
SERSAGYLDVTLASARPGVPATWVESCTCPVGYGGQFCMCLSGYRRETPNLGPYP  
CVLCACNGHSETCDPETGVCNCRDNTAGPHCEKCSDDGYGDDSTAGTSSDCQPCPCPGSS  
CAVVPKTKEVVCTNCPTGTTGKRCELDDGYFGDPLGRNGPVRLCRLCQCSNIDPNAVG  
NCNRLTGECLKCIYNTAGFYCDRCKDGGFGNPLAPNPADKCKACNCNLYGTMKQSSCNP  
VTGQCECLPHVTGQDCGACDPGFYNLQSGQGCERCDCALGSTNGQCDIRTGQCECQPGI  
TGQHCECERVENHFGFPEGCKPCDCHPEGSLSLQCKDDGRCECREGFVGNRCDQCEENYF  
YNRSWPGCQECPCYRLVKDKVADHRVKLQELESILANLGTGDEMVTDAQAFEDRLKEAER  
EVMDDLREAQDVKDQNLMDRLQRVNNTLSSQISRLQNIIRNTIEETGNLAEQARAHVEN  
TERLIEIASRELEKAKVAAANVSVTQPESTGDPNNMTLLAEEARKLAERHKQEADDIVRV  
AKTANDTSTEAYNLLRLTAGENQTAFEIEELNRKYEQAKNISQDLEKQAARVHEEAKRA  
GDKAVEIYASVAQLSPLDSELENEANNIKMEAENLEQLIDQKLKDYEDLREDMRGKELE  
VKNLLEKKGTEQQTADQLLARADAAKALAEAAKGRDTLQEANDILNNLKDFDRRVNDN  
KTAAEEALRKIPAINQTITEANEKTREAQALGSAAADATEAKNKAHEAERIASAVQKNA  
TSTKAAEERTFAEVTDLNEVNMLKQLQEAELKLRKQDDADQMMMAGMASQAAQAE  
INARKAKNSVTSLLSIINDLLEQLGQLDVTDLNKLNEIEGTLNKADEMKVSDLRKVS  
LENEAKKQEAAMIDYNRDIEEIMKDIRNLEDIRKTLPSGCFNTPSIEKP

>sp|P13473|LAMP2\_HUMAN Lysosome-associated membrane glycoprotein 2 OS=Homo sapiens  
GN=LAMP2 PE=1 SV=2

MVCFRLFPVPGSLVLVCLVLGAVRSYALELNLTDSENATCLYAKWQMNFTVRYETTNTKT  
YKTVTISDHGTVTYNGSICGDDQNGPKIAVQFGPGFSWIANFTKAASYIDSVSFSYNT  
GDNTTFPDAEDKGILTVDELLAIRIPLNDLFRCNLSLSTLEKNDVVQHYWDVLVQAFVQNG  
TVSTNEFLCDKDKTSTVAPTIHTTVPSPTTTPKEKPEAGTYSVNNGNDTCLLATMGLQ  
LNITQDKVASVININPNTTHSTGSCRSHALLRLNSSTIKYLDVFVAVKNENRFYLKEVN  
ISMYLVNGSVFSIANNLSYWDAPLGSSYMCNKEQTVSVSGAFQINTFDLRVQPFNVQTG  
KYSTAQDCSADDDNFLVPIAVGAALAGVLILVLLAYFIGLKHGHAGYEQF

>sp|Q9UJQ1|LAMP5\_HUMAN Lysosome-associated membrane glycoprotein 5 OS=Homo sapiens  
GN=LAMP5 PE=1 SV=1

MDLQGRGVPSIDRLRVLLMLFHTMAQIMAEQEVENLSGLSTNPEKDIFVVRENGTCLMA  
EFAAKFIVPYDVWASNYVDLITEQADIALTRGAEVKGRCGHSQSELQVFVWDRAVALKML  
FVKESHNMKGPEATWRLSKVQFVYDSSEKTHFKDAVSAGKHTANSHHLSALVTPAGKSY  
ECQAQQTISLASSDPQKTVTMILSAVHIQPFDIISDFVFSEEHKCPVDEREQLEETLPLI  
LGLILGLVIMVTLAIYHVHHKMTANQVQIPRDRSQYKHM

>sp|O43813|LANC1\_HUMAN LanC-like protein 1 OS=Homo sapiens GN=LANCL1 PE=1 SV=1

MAQRAFPNPYADYNKSLAEGYFDAAGRLTPEFSQRLTNKIRELLQQMERGLKSADPRDGT  
GYTGWAGIAVLVYHLYDVFGDPAYLQLAHGYVKQSLNCLTKRSITFLCGDAGPLAVAAVL  
YHKMNNEKQAEDCITRLIHLNKIDPHAPNEMLYGRIGYIYALLFVNKNFGVEKIPQSHIQ  
QICETILTSGENLARKRNFTAKSPLMEWYQEYYVGAAGLAGIYYLMPQLQVSQKGL  
HSLVKPSVDYVCQLKFPNGYPPCIGDNRDLLVHWCHGAPGVYMLIQAYKVFREEKYL  
DAYQCADVWQYGLLKKGYGLCHGSAGNAYAFLLTYNLTQDMKYLYRACKFAEWCLEYGE  
HGCRTPTDPTFSLFEGMAGTIYFLADLLVPTKARFPAFEL

>sp|Q9NS86|LANC2\_HUMAN LanC-like protein 2 OS=Homo sapiens GN=LANCL2 PE=1 SV=1

MGETMSKRLKLHLGGEAMEERAFVNPFPDYEAAAGALLASGAAEETGCVRPPATTDEPG  
LPFHQDGKIIHNFIRRIQTKIKDLLQQMEEGLKTADPHDCSAYTGTGTGIALLYLQLYRVT  
CDQTYLLRSLDYVKRTLRLNNGRRVTFLCGDAGPLAVGAVIYHKLRSDCESQECVTKLLQ  
LQRSVVCQESDLPDELLYGRAGLYALLYLNTEIGPGTVCESAIKEVVNAIIESGKTLRSR  
EERKTERCPLLYQWHRKQYVGAAGMAGIYYMLMQPAAKVDQETLTEMVKPSIDYVRHKK  
FRSGNYPSSLSNETDRLVHWCHGAPGVIHMLMQAYKVFKEEKYLKEAMECSDVIWQRGLL  
RKGYGICHGTAGNGYSFLSLYRLTQDKKYLIRACKFAEWCLDYGAHGCRIPDRPYSLFEG  
MAGAIHFLSDVLGPETSRFPAPFELDSSKRD

>sp|Q9GIP4|LAT1L\_HUMAN Putative L-type amino acid transporter 1-like protein IMAA OS=Homo sapiens GN=SLC7A5P2 PE=5 SV=2

MAGAGPKRRALAAPVAEEKEEAREKMMAAKRADGAAPAGEGEGVTLLQGNITLLKGVAVIV  
VAIMSSGIFVTPTGVLKEAGSPGLALVWAAACGVFSIVGALCYAELGTTISKSGGDYAYM  
LDVYGSLPAFLKLWIELLIIRPSSQYIVALVFATYLLKPLFPTCPVPEEAAKLVACHSVQ  
LIVHQPTQVI

>sp|O14633|LCE2B\_HUMAN Late cornified envelope protein 2B OS=Homo sapiens GN=LCE2B PE=2 SV=1

MSCQQNQQQCQPPPKCPPKCTPKCPPKCPPKCLPQCPAPCSPAVSSCCGPISGGCCGPSS  
GGCCNSGAGGCCLSHHRPRLFHRRRHQSPDCCSEPSGGSGCCHSSGGCC

>sp|Q5TA78|LCE4A\_HUMAN Late cornified envelope protein 4A OS=Homo sapiens GN=LCE4A PE=1 SV=1

MSCQQNQQQCQPPPKCPIPKYPPKCPKSCASSCPPPISSCCGSSSGGCGCCSSEGGGCCL  
SHHRHHRSHCHRPKSSNCYGSGSGQQSGSGGCCSGGGCC

>sp|P47929|LEG7\_HUMAN Galectin-7 OS=Homo sapiens GN=LGALS7 PE=1 SV=2

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNRLDTSEV  
VFNSKEQGSWGREERGPGVPFQRGQPFEVLI IASDDGFKAVVGDAQYHHFRHRLPLARVR  
LVEVGGDVQLDSVRIF

>sp|O00214|LEG8\_HUMAN Galectin-8 OS=Homo sapiens GN=LGALS8 PE=1 SV=4

MMLSLNQLNIINYPVPIFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRA  
DVAFHFNPRFKRAGCIVCNTLINEKWGREETIYDTPFKREKSFEIVIMVLKDKFQVAVNG  
KHTLLYGHRIPEKIDTLGIYGVNIHSIGFSFSSDLQSTQASSLELTEISRENVPKSGT  
PQLRLPFAARLNTMPGPGRTVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIAFV  
RNSFLQESWGEEERNITSFPFSPGMFEMI IYCDVREFKAVNGVHSLEYKHRFKELSSI  
DTLEINGDIHLLVRSW

>sp|O00182|LEG9\_HUMAN Galectin-9 OS=Homo sapiens GN=LGALS9 PE=1 SV=2

MAFGSQAPYLSPAVPFSGTIQGGQLDGLQITVNGTVLSSSGTRFAVNFQTGFSGNDIAF  
HFNPRFEDGGYVCNTRQNGSWGPEERKTHMPFQKGMFPDLCFLVQSSDFKVMVNGILFV  
QYFHRVPFHRVDTISVNGSVQLSYISFQNPRTPVPQPAFSTVPFSQPVCFPFRPRGRRQK  
PPGVWPANPAPITQTVIHTVQSAPGQMFSTPAIPPMYPHPAYPMPFITITILGGLYPSKS  
ILLSGTVLPSAQRFHINLCSGNHIAFHLNPRFDENAVVRNTQIDNSWGSEERSLPRKMPF  
VRGQSFSVWILCEAHCLKVAVDGQHLFEYYHRLRLNPTINRLEVGGDIQLTHVQT

>sp|Q9UJ90|KCNE5\_HUMAN Potassium voltage-gated channel subfamily E regulatory beta subunit 5 OS=Homo sapiens GN=KCNE5 PE=1 SV=1

MNCSESQRLRTLRLLELHHRGNASGLGAGPRPSMGMGVVPDPFVGREVTSAKGDDAY  
LYILLIMIFYACLAGGLILAYTRSRLVEAKDEPSQACAEHEWAPGGALTADAEAAAGSQ



AEGRRQLASEGLPALAQAERV

>sp|Q9UIX4|KCNG1\_HUMAN Potassium voltage-gated channel subfamily G member 1 OS=Homo sapiens GN=KCNG1 PE=1 SV=1

MTLLPGDNSDYDYSALSCTSDASFHPAFLPQRQAIGAFYRRAQRLRPQDEPRQGCQPED  
RRRRRIIINVGGIKYSLPWTTLDEFPLTRLGQLKACTNFDDILNVCDYDVTCEFFFDNRN  
PGAFTILTFLRAGKLRLREMCALSFQEELLYWGIAEDHLDGCCRRRYLQKIEEFAEMV  
EREEEDDALDSEGRDSEGAPEGGRGRCMRRLRDMVERPHSGLPGKVFACLSVLFVTVT  
AVNLSVSTLPSLREEEEQGHCSQMCHNVFIVESVCVGFSLFLLRLIQAPSKFAFLRSP  
LTLIDLVAILPYIITLLVDGAAAGRRKPGAGNSYLDKVGVLVRLRALRILYVMRLARHS  
LGLQTLGLTARRCTREFGLLLLFLCVAIALFAPLLYVIENEMADSPEFTSIPACYWWAVI  
TMTTVGYGDMVPRSTPGQVVALSSILSGILLMAFPVTSIFHTFSRSYLELKQEQRVMFR  
RAQFLIKTKSQLSVSQDSDILFGSASSDTRDNN

>sp|Q9UJ96|KCNG2\_HUMAN Potassium voltage-gated channel subfamily G member 2 OS=Homo sapiens GN=KCNG2 PE=1 SV=1

MEPWPCSPGGGGTRARHVI INVGGCRVRLAWAALARCPLARLERLRACRGHDDLRLVCD  
DYDVSREFFFDSPCAFRIVALLRAGKLRLLRGPCALAFRDELAYWGIDEARLERCCL  
RRLRRREEEAARAGPTERGAQGSPARALGPRGRLQRGRRRLRDVVDNPHSGLAGKLFA  
CVSVSFVAVTAVGLCLSTMPDIRAEERGECSPKCRSLFVLETVCVAFWSFEFLRLSLQA  
ESKCAFLRAPLNIIDILALLPFYVSLLLGLAAGPGGTKLLERAGLVRLRLRALRVLYVMR  
LARHSLGLRSLGLTMRRCAREFGLLLLFLCVAMALFAPLVHLAERELGARRDFSSVPASY  
WWAVISMTTVGYGDMVPRSLPGQVVALSSILSGILLMAFPVTSIFHTFSRSYSELKEQQQ  
RAASPEPALQEDSTHSATATEDSSQGPDSAGLADDSADALWVRAGR

>sp|Q9ULD8|KCNH3\_HUMAN Potassium voltage-gated channel subfamily H member 3 OS=Homo sapiens GN=KCNH3 PE=1 SV=2

MPAMRGLLAPQNTFLDTIATRFDGTHSNFVLGNAQVAGLFPVVYCSDFCDLTGFSRAEV  
MQRGCACSFLYGPDTSELVRQQIRKALDEHKEFKAELILYKSGLPFWCLLDVPIKNEK  
GEVALFLVSHKDISETKNRGGPDRWKETGGGRRRYGRARSKGFNANRRRSRAVLYHLSGH  
LQKQPKGKHLNKGVFGEKPNLPEYKVAAIRKSPFILLHCGALRATWDGFILLATLYVAV  
TVPYSVCVSTAREPSAARGPPSVCDLAVEVLFILDIVLNFRTTFVSKSQVVFAPKSI  
HYVTTWFLLDVIAALPFDLLHAFKVNVEYFGAHLKTVRLRLRLRLPRLD RYSQYSAVVL  
TLLMAVFALLAHWVACVWFYIGQREIESSESELPEIGWLQELARRLETPYYLVGRRPAGG  
NSSGQSDNCSSSSEANGTGLELLGGPSLRSAYITSLYFALSSLTSVGFGNV SANTDTEKI  
FSICTMLIGALMHAVVFGNVTAI IQRMYARRFLYHSRTRDLRDYIRIHRIPKPLKQRMLE  
YFQATWAVNNGIDTTELLQSLPDELADIAMHLHKEVLQLPLFEAASRGCLRALSLALRP  
AFCTPGEYLTHQGDALQALYFVCSGSMEVLKGGTVLAILGKGDIGCELPREQVVKANA  
DVKGLTYCVLQCLQLAGLHDSLALYPEFAPRFSRGLRGELSYNLGAGGSAEVDTSLSG  
DNTLMSTLEEKETDGEQGPTVSPAPADEPSSPLSPGCTSSSSAAKLLSPRRTAPRPRLG  
GRGRPGRAGALKAEGPSAPPRALEGLRLPMPWNVPDLSRVVDGIEDGCGSDQPKFS  
FRVGQSGPECSSSPGPESGLLTVPHGPSEARNTDTLKLKRAVTELSQVLQMQREGLQ  
SLRQAVQLVLAPHREGPCPRASGEGPCPASTSGLLQPLCVDTGASSYCLQPPAGSVLSGT  
WPHPRPGPPPLMAPWPWGPPASQSSPWPRATAFTSTSDSEPPASGDLCEPSTPASPPP  
SEEGARTGPAEPVSQAEATSTGEPPPGSGGLALPWDPHSLEMVLI GCHGSGTVQWTQEEG  
TGV

>sp|P48050|KCNJ4\_HUMAN Inward rectifier potassium channel 4 OS=Homo sapiens GN=KCNJ4 PE=1 SV=1

MHGHSRNGQAHVPRRRRRNRFVKNGQCENVYFANLSNKSQRYMADIFTTCVDTRWRYMLM  
IFSA AFLVSWLFFGLLFWCIAFFHGDLEASPGVPAAGGPAAGGGGAAPVAPKPCIMHVNG  
FLGAFLFSVETQTTIGYGFRCTEECP LAVIAVVVQSIVGCVDSFMIGTIMAKMARPKK  
RAQTLLFSHHAVISVRDGKLC LMWRVGNLRKSHIVEAHVRAQLIKPYMTQEGEYLPDQR  
DLNVGYDIGLDRIFLVSPIIIVHEIDEDSPLYGMGKEELEDSEDFEIVVILEGMVEATAMT  
TQARSSYLASEILWGH RFEPVVFEEKSHYKVDYSRFHKTYEVAGTPCCSARELQESKITV  
LPAPPPPPSAFCYENELALMSQEEEEEMEEEEAAAAA VAAGLGL EAGSKEEAGIIRMLEFG  
SHLDLERMQASLPLDNISYRRESAI

>sp|Q9Y2U2|KCNK7\_HUMAN Potassium channel subfamily K member 7 OS=Homo sapiens GN=KCNK7 PE=2 SV=1

MGGLRPWSRYGLLVVAHLLALGLGAVVFQALEGPPACRLQAE LRAELAAFQAEHRACLPP  
GALEELLGTALATQAHGVSTLGNSSSEGR TDLP SALLFAASILTTTGYGHMAPLSPGGKA  
FCMVYAALGLPASLALVATLRHCLLPVLSRPRAWVAVHWQLSPARAALLQAV ALGLLVAS  
SFVLLPALVLWGLQGDCSLLAGVYFCFSSLSTIGLEDLLPGRGRSLHPVIYHLGQLALLG  
YLLGLLAMLLAVETFSELPQVRAMGKFFRPSGPVTAEDQGGILGQDELALSTLPPAAPA  
SGQAPAC

>sp|Q9HB15|KCNKC\_HUMAN Potassium channel subfamily K member 12 OS=Homo sapiens GN=KCNK12 PE=2 SV=1

MSSRSRPPRRRRRLPRPSCCCCCRRSHLNEDTGRFVLLAALIGLYLVAGATVFSAL  
ESPGAEAEARARWGATLRNFSAAHGVAEPELRAFLRH YEAA LAAGVRADALRPRWDFPGAF  
YFVGTVVSTIGFMTTPATVGGAFLIAYGLFGCAGTILFFNLFLERIISLLAFIMRACR  
ERQLRRSGLLPATFRRGSALSEADSLAGWKPSVYHVLLILGLFAVLLSCCASAMYTSVEG  
WDYVDSLYFCFVTFSTIGFGDLVSSQHAAYRNQGLYRLGNFLFILLGVCCIYSLFNVISI  
LIKQVLNWMLRKLSRCCARCCPAPGAPLARRNAITPGSRLRRRLAALGADPAARDSDAE  
GRRLSGELISMRDLTASNKVS LALLQKQLSETANGYPRSV CVNTRQNGFSGGVGALGIMN  
NRLAETSASR

>sp|Q9HB14|KCNKD\_HUMAN Potassium channel subfamily K member 13 OS=Homo sapiens GN=KCNK13 PE=2 SV=2

MAGRGSWGPGLHNEDNARFLLAALIVLYLLGGA AVFSALELAHERQAKQRWEERLANF  
SRGHNLSRDELGRFLRH YE EATRAGIRVDNVRPRWDTGAFYFVGTVVSTIGFMTTPAT  
VGGKIFLIFYGLVGCSS TILFFNLFLERLITIIAYIMKSCHQRQLRRRGALPQESLKDAG  
QCEVDSL AGWKPSVYVYV MLILCTASILISCCASAMYP TIEGWSYFDSL YFCFVAFSTIGF  
GDLVSSQNAHYESQGLYRFANFV FILMGVCCIYSLFNVISILIKQSLNWILRKMDSGCCP  
QCQRGLLRSRNRNVMPG SVRNR CNIS IETDGV AESDTDGRRLSGEMISMKDLLAANKASL  
AILQKQLSEMANGC PHQTSTLARDNEFSGGVGAFAIMNNRLAETSGDR

>sp|Q9H427|KCNKF\_HUMAN Potassium channel subfamily K member 15 OS=Homo sapiens GN=KCNK15 PE=1 SV=2

MRRPSVRAAGLV LCTLCYLLVGA AVFDALESEAESGRQRLLVQKRGALRRKFGFSAEDYR  
ELERLALQAEPHRAGRQWKFPGSFYFAITVIT TIGYGH AAPGTDSGKVFCMFYALLGIPL  
TLVTFQSLGERLNAVVRLLLA AKCCLGLRWTCVSTENLVVAGLLACAATLALGAVAFSH  
FEGWTFHAYYYCFITLTTIGFGDFVALQSGEALQRKLPYVAFSFLYILLGLTVIGAFLN  
LVVLRFLVASADWP ERAARPPSPRPPGAPESRGLWLPRRPARSVGSASV FCHVHKLERCA

RDNLGFSPSSPGVVRGGQAPRPGARWКСI

>sp|Q96T54|KCNKH\_HUMAN Potassium channel subfamily K member 17 OS=Homo sapiens GN=KCNK17  
PE=2 SV=1

MYRPRARAAPGVRVRCAPVSTVLLLLLAYLAYLALGTGVFWTLEGRAAQDSSRSFQRDKW  
ELLQNFTCLDRPALDSLIRDVVQAYKNGASLLSNTTSMGRWELVGSFFFSVSTITTIGYG  
NLSPNTMAARLFCIFFALVGIPNLVVLNRLGHLMQQGVNHWASRLGGTWQDPDKARWLA  
GSGALLSGLLLFLLPPLLFSHMEGWSYTEGFYFAFITLSTVGFGDYVIGMNPSQRYPLW  
YKNMVSLWILFGMAWLALI IKL ILSQLETPGRVCSCHHSSKEDFKSQSWRQGPDPREPES  
HSPQQGCYPEGPMGIIQHLEPSAHAAGCGKDS

>sp|Q9H2S1|KCNN2\_HUMAN Small conductance calcium-activated potassium channel protein 2  
OS=Homo sapiens GN=KCNN2 PE=1 SV=2

MSSCRYNGGVMRPLSNLSASRRNLHEMDSEAPLQPPASVGGGGGASSPSAAAAAAAVS  
SSAPEIVVSKPEHNNSNNLALYGTGGGGSTGGGGGGGSGHGSSSGTKSSKKKNQNIQYK  
LGHRRALFEKRKRLSDYALIFGMFGIVVMV IETELSWGAYDKASLYSLALKCLISLSTII  
LLGLIIIVYHAREIQLFMVDNGADDWRIAMTYERIFFICLEILVCAIHPIPGNYTFTWTAR  
LAFSYAPSTTTADVDIILSIPMFLRLYL IARVMLLHSLKFTDASSRSIGALNKINFNTRF  
VMKTLMTICPGTVLLVFSISLWIIAAWTVRACERYHDQQDVTSNFLGAMWLISITFLSIG  
YGDMVPNTYCGKGVCLLTGIMGAGCTALVAVVARKLELTKAEKHVHNFMMDTQLTKRVK  
NAAANVLRETWLIYKNTKL VKKIDHAKVRKHQRKFLQAIHQ LRSVKMEQRKLNDQANTLV  
DLAKTQNIIMYDMISDLNERSEDFEKRIVTLETKLETIGSIHALPGLISQTIQQQRDFI  
EAQMESYDKHVITYNAERSRSSRRRRSSSTAPPTSSESS

>sp|Q7Z4H8|KDEL2\_HUMAN KDEL motif-containing protein 2 OS=Homo sapiens GN=KDELC2 PE=1  
SV=2

MRRLPRALLLQLRLALLVAAGAPEVLVSAPRSLVWGPGLQAAVVLVPRYFYLQAVNSEGQ  
NLTRSPAGETPFKVVVKSLSPELVRIHVPKPLDRNDGTFLMRYRMYETVDEGLKIEVLY  
GDEHVAQSPYILKGPVYHEYCECPEDPQAWQKTLSCPTKEPQIAKDFASFPSINLQQMLK  
EVPKRFGDERGAIVHYTILNNHVYRRSLGKYTDFKMFSDEILLSLTKRVLLPDLEFYVNL  
GDWPLEHRKVNGTPSPIPIISWCGSLDSRDVVLPTYDITHSMLEAMRGVTNDLLSIQGNT  
GPSWINKTERAFFRGRDSREERLQLVQLSKENPQLLDAGITGYFFFQEKEKELGKAKLMG  
FFDFFKYKYQVNVDTVAAYRYPYMLGDSLVLKQDSPYYEHFYMALEPWKHYPV IKNRL  
SDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYCYYYQVLQKYAERQSSKPEVRD  
GMELVPQPEDSTAICQCHRKKPSREEL

>sp|O60341|KDM1A\_HUMAN Lysine-specific histone demethylase 1A OS=Homo sapiens GN=KDM1A  
PE=1 SV=2

MLSGKKAIAAAAAAAAAAATGTEAGPGTAGGSENGSEVAAQPAGLSGPAEVGPGAVGERTP  
RKKEPPRASPPGGLAEPGSGAGPQAGPTVVPGSATPMETGIAETPEGRRTSRRKRAKVEY  
REMDESLANLSEDEYYSEEERNAKAEKEKKLPPPPQAPPEEENESEPEEPSGVEGAAFQ  
SRLPHDRMTSQAACFPDIISGPQQTQKVFLFIRNRTLQLWLDNPKIQLTFEATLQQLEA  
PYNSTVLVHRVHSYLERHGLINFGIYKRIKPLPTKKTGKVIIIGSGVSGLAAARQLQSF  
GMDVTLLIARDRVGGRVATFRKGNYVADLGAMVVTGLGGNPMNAVSKQVNMELAKIKQKC  
PLYEANGQAVPKEKDEMVEQEFNRLLEATSYLSHQLDNFVNLNKPVSLGQALEVVIQLQE  
KHVKDEQIEHWKKIVKTQEELKELLNKMVNLKEKIKELHQQYKEASEVKPPRDITAEFLV  
KSKHRDLTALCKEYDELAETQGKLEEKLELEANPPSDVYLSSRDRQILDWHFANLEFAN  
ATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEGLDIKLN TAVRQVRYTASGC

EVI AVNTRSTSQTFIYKCAVLCTPLGLVKQPPAVQFVPPLPEWKTS AVQRMGFGNLN  
KVVLCFDRVFWDP SVNLF GHVGSTTASRGELFLFWNLYKAPILLALVAGEAAGIMENISD  
DVIVGRCLAILKGIFGSSAVPQPKETVVSRRADPWARGSYSYVAAGSSGNDYDLMAQPI  
TPGPSIPGAPQPI PRLFFAGEHTIRNYPATVHGALLSGLREAGRIADQFLGAMYTLP RQA  
TPGVPAQQSPSM

>sp|P23276|KELL\_HUMAN Kell blood group glycoprotein OS=Homo sapiens GN=KEL PE=1 SV=2

MEGGDQSEEEPRERSQAGMGTLWSQESTPEERLPVEGSRPWAVARRVLTAILILGLLLC  
FSVLLFYNFQNCGRPCETSVCLDLRDHYLASGNTSVAPCTDFFSFACGRAKETNNSFQE  
LATKNKNRLRRILEVQNSWHPGSGEEKAFQFYNSCMDTLAIEAAGTGPLRQVIEELGGWR  
ISGKWTSLNFNRTLRLMSQYGHFPFFRAYLGHPASPHTPVIIQIDQPEFDVPLKQDQEQ  
KIYAQIFREYLTYNQLGTLLGGDPSKVQEHSLSISITSRLFQFLRPLEQRRAAQKLFQ  
MVTIDQLKEMAPAI DWLSCLQATFTPMSLSPSQSLVVHDVEYLNMSQLVEEMLLKQRDF  
LQSHMILGLVVTLSPALDSQFQEARRKLSQKLRELTEQPPMPARPRWMKCVEETGTFEP  
TLAALFVREAFGPSTRSAAMKLF TAIRDALITRLRNLPWMNEETQNMAQDKVAQLQVEMG  
ASEWALKPELARQEYNDIQLGSSFLQSVLSCVRSRLRARI VQSFLQPHPQHRWKVSPWDVN  
AYYSVSDHV VVPAGLLQPPFFHPGYPRAVNFGAAGSIMAHELLHIFYQLLLPGGCLACD  
NHALQEHLCLKRHYAAFPLPSRTSFNDSLTFLENAADVGLAIALQAYSKRLLRHHGET  
VLPSLDLSPQQIFFRSYAQVMCRKPS PQDSHDTHSPHLRVHGPLSSTPAFARYFRCARG  
ALLNPSSRCQLW

>sp|Q4VXA5|KHDC1\_HUMAN KH homology domain-containing protein 1 OS=Homo sapiens GN=KHDC1  
PE=2 SV=1

MLSAFQRLFRVLFIETVSEYGLVIFIYGPFLQTLAMLLIGTVSFHLWIRNRERNRS  
GKTRCRSKRSEQSMDMGTSALSKKPWWTLPQNFHAPMVFHMEEDQEELIFGHGDTYLRCI  
EVHSHTLIQLESWFTATGQTRVTVVGPHRARQWLLHMFCCVGSQDSYHHARGLEMLERVR  
SQPLTNDLVTISISVPPYTGDLSLAPRISGTVCLSVPPSPYQVIGCSGFHLSSLYP

>sp|Q96Q89|KI20B\_HUMAN Kinesin-like protein KIF20B OS=Homo sapiens GN=KIF20B PE=1 SV=3

MESNFNQEGVPRPSYVFSADPIARPSEINFDGIKLDLSHEFSLVAPNTEANSFESKDYLQ  
VCLRIRPFTQSEKELESEGCVHILDSQTTVLKEPQCILGRLSEKSSGQMAQKFSFSKVFG  
PATTQKEFFQGCIMQPVKDLLKGQSRLIFTYGLTNSGKTYTFQGTEENIGILPRTLNVLF  
DSLQERLYTKMNLKPHRSREYLRLSSEQEKEEIASKSALLRQIKEVTVHNSDDTLYGSL  
TNSLNISEFEESIKDYEQANLNMANSIKFSVWVSFFEIYNEYIYDLFVPVSSKFQKRKML  
RLSQDVKGYSFIDKLQWIQVSDSKEAYRLLKLGIKHQSVAF TKLNNASSRSHSIFTVKIL  
QIEDSEMSRVIRVSELSLCDLAGSERTMKTQNEGERLRETGNINTSLLTLGKCINVLKNS  
EKSKFQQHVFPRESKLTTHYFQSFNGKGKICMIVNISQCYLAYDET LNVLKFS AIAQKVC  
VPDTLNSSQEKLFGPVKSSQDVSLDSNSNSKILNVKRATISWENSLEDLMEDEDLVEELE  
NAEETQNVETKLLDEDLDKTLEENKAFISHEEKRLLDLIEDLKKKLINEKKEKLTLEFK  
IREEVTQEFTQYWAQREADFKETLLQEREILEENAERRLAIFKDLVGKCDTREEAKDIC  
ATKVETEETHNYVGFEDIIDSLQDNVADIKKQAEIAHLYIASLPDPQEATACLELKFNQI  
KAELAKTKGELIKTKEELKKRENESDSL IQELET SNKKIITQNRIKELINIIDQKEDTI  
NEFQNLKSHMENTFKCNDKADTSSLI INNKLICNETVEVPKDSKSKICSERKRVNENELQ  
QDEPPAKKGSIHVSSAITEDQKKSEEV RPNIAEIEDIRVLQENNEGLRAFLLT IENELKN  
EKEEKAELNKQIVHFQQELSLSEKKNLTSKEVQQIQSNYDIAIAELHVQKSKNQEQEEK  
IMKLSNEIETATRSITNNVSQIKLMHTKIDELRTLDSVSQISNIDLLNLRDLSNGSEEDN  
LPNTQLDLLGNDYLVSKQVKEYRIQEPNRENSFHSSIEAIWEECKEIVKASSKKSHQIEE

LEQQIEKLQAEVKGKDYDENNRLEKEHKNQDDLLKEKETLIQQLKEELQEKNTLDVQIQ  
HVVEGKRALSELQTQGVTCYKAKIKELETILETQKVECSHSAKLEQDILEKESIILKLERN  
LKEFQEHLQDSVKNTKDLNVKELKLKEEITQLTNNLQDMKHLQLKEEEEEETNRQETEK  
KEELSASSARTQNLKADLRKEEDYADLKEKLTDAKKQIKQVQKEVSVMRDEDKLLRIKI  
NELEKKKNQCSQELDMKQRTIQQLKEQLNNQKVEEAIQQYERACKDLNVKEKIIEDMRMT  
LEEQEQTQVEQDQVLEAKLEEVEERLATELEKWKEKCNDETNNQSRNKEHENNTDVLGK  
LTNLQDELQSEQKYNADRKKWLEEKMLITQAKEAENIRNKEMKKAEDRERFFKQNE  
MEILTAQLTEKSDQLKQWREERDQLVAALEIQLKALISSNVQKDNEIEQLKRIISETSKI  
ETQIMDIKPKRISSADPDKLQTEPLSTSFESISRNKIEDGSVVLDSCEVSTENDQSTRFPK  
PELEIQFTPLQPNKMAVKHPGCTTPVTVKIPKARKRKSNEEEDLVKCNKKNATPRTNL  
KFPISSDRNSSVKKEQKVAIRPSSKKTYSLSQASIIIGVNLATKKKEGTLQKFGDFLQHS  
PSILQSKAKKIIETMSSSKLSNVEASKENVSQPKRAKRKLYTSEISSPIDISGQVILMDQ  
KMKESDHQIIKRRLRTKTAK

>sp|Q14954|KI2S1\_HUMAN Killer cell immunoglobulin-like receptor 2DS1 OS=Homo sapiens  
GN=KIR2DS1 PE=2 SV=1

MSLTVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVMFEHFLL  
HREGMFNDTLRLIGEHHDGVSANFISISMRQDLAGTYRCYGSVTHSPYQLSAPSDPLDI  
VIIGLYEKPSLSAQPGPTVLAGEVNTLSCSSRSSYDMYHLSREGEAHERRLPAGTKVNGT  
FQANFPLGPATHGGTYRCFGSFRDSPYEWKSSDLLSVGTGNPSNSWSPTEPSSSETGN  
PRHLHVLIGTSVVKIPFTILLFLLHRWCSDKKNAAVMDQEPAGNRTVNSEDSDEQDHQE  
VSYA

>sp|P43631|KI2S2\_HUMAN Killer cell immunoglobulin-like receptor 2DS2 OS=Homo sapiens  
GN=KIR2DS2 PE=1 SV=2

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEHFLL  
HREGKYKDTLHLIGEHHDGVSANFISIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDI  
VITGLYEKPSLSAQPGPTVLAGEVNTLSCSSRSSYDMYHLSREGEAHERRFSAGPKVNGT  
FQADFPLGPATHGGTYRCFGSFRDSPYEWSSDLLSVGTGNPSNSWSPTEPSSKTGN  
PRHLHVLIGTSVVKIPFTILLFLLHRWCSDKKNAAVMDQEPAGNRTVNSEDSDEQDHQE  
VSYA

>sp|P43632|KI2S4\_HUMAN Killer cell immunoglobulin-like receptor 2DS4 OS=Homo sapiens  
GN=KIR2DS4 PE=1 SV=2

MSLMVIMACVGFFLLQGAWPHEGVHRKPSFLALPGHLVKSEETVILQCWSDVMFEHFLL  
HREGKFNTLHLIGEHHDGVSANFISIGPMPVLAGTYRCYGSVPHSPYQLSAPSDPLDM  
VIIGLYEKPSLSAQPGPTVQAGENVTLSCSSRSSYDMYHLSREGEAHERRLPVRSINGT  
FQADFPLGPATHGGTYRCFGSFRDAPYEWSSDLLSVGTGNPSNSWSPTEPSSKTGN  
PRHLHVLIGTSVVKIPFTILLFLLHRWCSDKKNAAVMDQEPAGNRTVNSEDSDEQDHQE  
VSYA

>sp|Q14953|KI2S5\_HUMAN Killer cell immunoglobulin-like receptor 2DS5 OS=Homo sapiens  
GN=KIR2DS5 PE=2 SV=1

MLLMVISMACVAFFLLQGAWPHEGFRRKPSLLAHPGRLVKSEETVILQCWSDVMFEHFLL  
HREGTFNHTLRLIGEHDGVSNGNFISIGRMTQDLAGTYRCYGSVTHSPYQLSAPSDPLDI  
VITGLYEKPSLPAQPGPTVLAGEVNTLSCSSRSSYDMYHLSREGEAHERRLPAGPKVNRT  
FQADSPLDPATHGGAYRCFGSFRDSPYEWKSSDLLSVGTGNSSNSWSPTEPSSSETGN  
PRHLHVLIGTSVVKLPFTILLFLLHRWCSDKKNASVMDQGPAGNRTVNREDSDEQDHQE

VSYA

>sp|P43629|KI3L1\_HUMAN Killer cell immunoglobulin-like receptor 3DL1 OS=Homo sapiens  
GN=KIR3DL1 PE=1 SV=1

MSLMVVSMAVGLFLVQRAGPHMGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFML  
YKEDRIHIPIFHGRIFQESFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPVVIMVTGN  
HRKPSLLAHPGPLVKSGERVILQCWSDIMFEHFFLHKEGISKDPSRLVGQIHDGVSKANF  
SIGPMLALAGTYRCYGSVTHTPYQLSAPSDPLDIVVTGPYEKPSLSAQPGPKVQAGESV  
TLSCSSRSSYDMYHLSREGGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS  
PYEWSDPDPLLVSVTGNPSSSWPSPTEPSSKSGNPRHLHILIGTSVVIILFILLFLL  
HLWCSNKKNAAVMDQEPAGNRTANSEDSDEQDPEEVTYAQLDHCVFTQRKITRPSQRPKT  
PPTDTILYTELPNAKPRSKVVSCP

>sp|Q8N743|KI3L3\_HUMAN Killer cell immunoglobulin-like receptor 3DL3 OS=Homo sapiens  
GN=KIR3DL3 PE=2 SV=2

MSLMVVSMAVGVFFLLEGPWPHVGGQDKPFLSAWPGTVVSEGQHVTLQCRSRLGFNEFSL  
SKEDGMPVPELYNRIFRNSFLMGPVTPAHAGTYRCCSSHPSPTGWSAPSNPVVIMVTGV  
HRKPSLLAHPGPLVKSGETVILQCWSDVRFRERFLLHREGITEDPLRLVGQLHDAGSQVNY  
SMGPMPALAGTYRCFGSVTHLPYELSAPSDPLDIVVGLYGKPSLSAQPGPTVQAGENV  
TLSCSSRSLFDIYHLSREAEAGELRLTAVLRVNGTFQANFPLGPVTHGGNYRCFGSFRAL  
PHAWSDPSDPLPVSVTGNSRHLHVLIGTSVVIIPFAILLFLLHRCANKKNAVMDQEP  
AGNRTVNREDSDEQDPQEVTYAQLNHCVFTQRKITRPSQRPKTPPTDTSV

>sp|A8MWS1|KI3P1\_HUMAN Putative killer cell immunoglobulin-like receptor like protein  
KIR3DP1 OS=Homo sapiens GN=KIR3DP1 PE=2 SV=2

MSLMVISMVAVGVFLLQGAWTHEGGQDKPFLSAWPSPVVSEGEHVALQCRSRLGFNEFSL  
SKEDGMPVPELYNRVFRNTVFIGPVTPAHAGTYRCRGSHPHFLTGWAPSPLVIMVTGV  
HRKPSLLAHPGPLVKSEETVILQCWSDVMFEHFFLHREGKFNDTLRLTGELHDGVSKANF  
SIGRMTQDLAGTYRCYGSVPHSPYQLSAPSDPLDIVITGLCGKPSLSAQPRPMVKAGESV  
TLSCSSRSSYDIYHLSREGEAHELRFPAVPKVNGTFQANFPLGPATHGGTYRCFGSFRDS  
PYEWSDLSDPLLVSVTDSMKEKGKDVL

>sp|Q9H7L2|KI3X1\_HUMAN Putative killer cell immunoglobulin-like receptor-like protein  
KIR3DX1 OS=Homo sapiens GN=KIR3DX1 PE=5 SV=2

MAPKLITVLCGLFCLNQKICPHAGAQDKFSLSAWPSPVVPLGGRVTLSCHSHLRFVIWTI  
FQTTGTRSHELHTGLSNITISPVTEHAGTYRCVGIYKHASKWSAESNLKIIIVTGLFT  
KPSISAHPPSSLVHAGARVSLRCHSELADEFILYKEGHIQHSQQLDQGMEAGIHYVEAVF  
SMGPVTPAHAGAYRCCGCFSHSRYEWSAPSDPLDIVITGKYKKPSLSTQVDPMMRLGEKL  
TLFCSSEISFDQYHLFRHGVAHGQWLSGGQRHREAFQANFSVGRATPVPGGTYRCYGSFN  
DSPYKPPVTRCNFTPQETLRVLLCHSQNPPLNLTHLALKDSPATCICSLDSQ

>sp|Q9Y6Z4|KIF1\_HUMAN Putative uncharacterized protein KIF25-AS1 OS=Homo sapiens  
GN=KIF25-AS1 PE=5 SV=2

MGDIFKNNGVLQGRRAVACAPHCFGPRRLCLHHDQGLTELAWGTWPHSHPVRRHQPMPS  
ARECCSIVCMAAKEVSAPKAPGSPWMVPGDVAMSGHRVGALDERGHPNPQTGHCRCGGSVS  
VTWSSVSCCRGLAAVRVMIARDPSTCHLAKGCSPA WGFLPQARGPAGTRTPQRRCSSE

A

>sp|Q15058|KIF14\_HUMAN Kinesin-like protein KIF14 OS=Homo sapiens GN=KIF14 PE=1 SV=1  
MSLHSTHNRNNSGDILDIPSSQNSSSLNALTHSSRLKLHLKSDMSECENDDPLLRSAKGV

RDINRTYVISASRKTADMPLTPNPVGRLLALQRRTRTRNKESLLVSELEDTEKTAETRLT  
LQRRAKTDSA EKWKTA EIDSVKMTLNVGGETENNGVSKESRTNVRIVNNAKNSFVASSVP  
LDEDPQVIEMMADKKYKETFSAPS RANENVALKYSSNRPPIASLSQTEVVRSGLHTTKPT  
QSKLDIKVLGTGNLYHRSIGKEIAKTSNKFGSLEKRTPTKCTTEHKLTTKCSLPQLKSPA  
PSILKNRMSNLQVKQRPKSSFLANKQERSAENTILPEEETVVQNTSAGKDPLKVEN SQVT  
VAVRVRPFTKREKIEKASQVVFMSGKEITVEHPDTKQVYNFIYDVSFWSFDECHPHYASQ  
TTVYEKLAAPLLERAFEGFNTCLFAYGQTGSGKSYTMMGFSEEPGIIIPRFCEDLFSQVAR  
KQTQEVSYHIEMSF FEVYNEKIHDL LVCKDENGQRKQPLRVREHPVYGPYVEALSMNIVS  
SYADIQSWLELGNKQRATAATGMNDKSSRSHSVFTLVMTQTKTEFVEGEEHHRITSRIN  
LIDLAGSERCSTAHTNGDRLKEGVSINKSLTLGKVISALSEQANQRSVFIPYRESVLTW  
LLKESLGGNSKTAMIATISPAASNI EETLSTLRYANQARLIVNIAKV NEDMNAKLIRELK  
AEIAKLKAAQRNSRNIDPERYRLCRQEITSLRMKLHQQERDMAEMQRVWKEKFEQAEKRK  
LQETKELQKAGIMFQMDNHLPNLVNLNEDPQLSEMLLYMIKEGTTTVGKYKPNSSHDIQL  
SGVLIADDDHCTIKNFGGTVSIIPVGEAKTYVNGKHILEITVLRHGDRVILGGDHYFRFNH  
PVEVQKGRPSGRDPTISEGPKDFEFAKNELLMAQRSQLEAEIKEAQLKAKEEMMQGIQI  
AKEMAQQELSSQKAAYESKIKALEAELREESQRKKMQEINNQKANHKIEELEKAKQHLEQ  
EIYVNNKRLEMETLATKQALEDH SIRHARILEALETEKQKIAKEVQILQQNRNNRDKTFT  
VQTTWSSMKLSMMIQEANAISSKLKTYVFGRHDISDKSSSDTSIRVRNLKLGISTFWSL  
EKFESKLAAMKELYESNGSNRGEDAFCDPEDEWEPDITDAPVSSLSRRRSRSLMKNRRIS  
GCLHDIQVHPIKNLHSSSHSGLMDKSSTIYSNSAESFLPGICKELIGSSLDFFGQSYDEE  
RTIADSLINSFLKIYNGLFAISKAHEEQDEESQDNLFSSDRAIQSLTIQTACAFEQLVVL  
MKHWLSDLLPCTNIARLEDEL RQEVKKLGGYLQLFLQGCLDISSMIKEAQKNAIQIVQQ  
AVKYVQQLAVLKGSKLHFLENGNNKAASVQEEFMDAVCDGVGLGMKILLDSGLEKAKELQ  
HELFRQCTKNEVTKEKMTNAMGLIRSL ENIFAESKIKSFRRQVQEENFEYQDFKRMVNRA  
PEFLKLKHCLEKAIEIIISALKGCHSDINLLQTCVESIRNLASDFYSDFSV PSTSVGSYE  
SRVTHIVHQELES LAKSLLFCFESEESP DLLKPWETYNQNTKEEHQQSKSSGIDGSKNKG  
VPKRVYELHGSSPAVSSEECTPSRIQWV

>sp|B2CW77|KILIN\_HUMAN Killin OS=Homo sapiens GN=KLLN PE=1 SV=1  
MDRPGPGSARPGRTVHVWGYRVEWKVRNGRKLQPS EWAGRGDLGGFKRRWKDTRATVGTT  
FRRRSRVSLVGELSKFPLPSDSSGGKSSSSFARGALAWCRQ RNPNPSCAAAETGARTSLP  
KERCGRWRLGNWLHKHHPNTPCRLPACWLPPI LTERGERVPKLVPLLACYPKSKPKD

>sp|Q2M2Z5|KIZ\_HUMAN Centrosomal protein kizuna OS=Homo sapiens GN=KIZ PE=1 SV=2  
MSRTLASAVPLSPDYERLGLQHGLRDSEKKRLDLEKKLYEYNQSDTCRVKLKYVKLK  
NYLKEICESEKKAHTRNQEYLKRFERVQAHVVHFTTNT EKLQKLKLEYETQIKKMLCSKD  
SLGLKEELTDEDREKVAVHEGINS GTAMSRGLYQPATIFMGRQMSAILS MRDFSTEHKSP  
QPTKNFSIPDPHSHRQTAQSSNVT DSCVVQTSNDTQCLN KSDNIDGKASLQIGEMPVTA  
SVLSEEEQTHCLEIGSNTRHGKSNLSEGKSAELNSPLRERLSPENRTDLKCDSSSGSE  
GEILTREHIEVEEKRASPPVSI PVSEYCESENKWSQEKHSPWEGVSDHLAHREPKSQKP  
FRKMQEEEEESWSTSSDLTISISEDDL ILESPEPQPNPGGKMEGEDGIEALKLIHAEQER  
VALSTEKNCILQTLSSPDSEKESSTNAPTREP GQTPDSVPRAQVGQH VATLKEHDNSVK  
EEATALLRKALTEECGRRSAIHSS ESSCSLPSILNDNSGIKEAKPAVWLNSVPTREQEVS  
SGCGDKSKKENVAADIPITETEAYQLLKKATLQDNTNQ TENRFQKT DASVSHLSGLNIGS  
GAFETKTANKIASEASFSSSEGSPLSRHENKKKPV INLKSNALWDESDDSNSEIEAALRP  
RNHNTDSDDFYD

>sp|Q96RR4|KKCC2\_HUMAN Calcium/calmodulin-dependent protein kinase kinase 2 OS=Homo sapiens GN=CAMKK2 PE=1 SV=2

MSSCVSSQSSNRAAPQDELGGRGSSSESQKPCEALRGLSSLSIHLGMESFIVVTECEP  
GCAVDLGLARDRPLEADGQEVPLDTSGSQARPHLSGRKLSLQERSQGGLAAGGSLDMNGR  
CICPSLPYSPVSSPQSSPRLPRRPTVESHHVSITGMQDCVQLNQYTLKDEIGKGSYGVVK  
LAYNENDNTYYAMKVLSSKKLIRQAGFPRRPPPRGTRPAPGGCIQPRGPIEQVYQEIAIL  
KKLDHPNVVKLVEVLDDPNEDHLYMVFELVNQGPVMEVPTLKPLSEDQARFYFQDLIKGI  
EYLHYQKI IHRDIKPSNLLVGEDGHIKIADFGVSNEFKGSDALLSNTVGTPAFMAPELS  
ETRKIFSGKALDVWAMGVTLVCFVFGQCPFMDERIMCLHSKIKSQALEFPDQPDIAEDLK  
DLITRMLDKNPESRIVVPEIKLHPWVTRHGAELPSEDENCTLVEVTEEEVENSVKHIPS  
LATVILVKTMIKRKSFNGPFEGSRREERSLSAPGNLLTKKPTRECESLSELKEARQRRQP  
PGHRPAPRGGGSALVRGSPCVESCWAPAGSPARMHPLRPEEAMEPE

>sp|Q96G42|KLD7B\_HUMAN Kelch domain-containing protein 7B OS=Homo sapiens GN=KLHDC7B PE=2 SV=2

MVLRSHPFPRQDRPQGSVPRAVPGSPVGPSTSTHSEDRHGPPSSSVGTVIGTGTGGLVEAG  
GQPQPRSSETNGSPSPDPPPGLRGEGTREKSLDPLQAAMPRGAQPPAQRPPGPAASSS  
ARRSQVPVQLRKRSRCEIAPSSSEQEVRPAASGDPQGEAPGEGGSPAGRSGALTEKQEEAR  
KLMVFLQRPGGWGVVEGPRKPSSRALEPATAAALRRRLDLGSCLDLAFAQQHGEPGLAQ  
ETYALMSDNLLRVLGDPCLYRRLSADRERILSLRTGRGRAVLGVLVPSLYQGGRSGLP  
RGPRGEEPPAAAPVSLPLPAHLHVFNPARENTWRPLTQVPEEAPLRGCGLCTMHNLYFLAG  
GIRGSGAKAVCSNEVFCYNPLTNIWSQVRPMQQAQKLVALDGLLYAIGGECLYSMC  
YDPRTDAWTPRAPLPAGTFPVAHEAVACRGDIYVTGGHLFYRLRLRYSPVKDAWDECPYSA  
SHRRSSDIVALGGFLYRFDLLRGVGAAMRYNTVTGSWSRAASLPLPAPAPLHCTTLGNT  
IYCLNPQVTATFTVSGGTAQFQAKELQPFPLGSTGVLSPFILTLPPEDRLQTSL

>sp|Q5JT82|KLF17\_HUMAN Krueppel-like factor 17 OS=Homo sapiens GN=KLF17 PE=1 SV=1

MYGRPQAEMEQAAGELSRWQAAHQAAQDNENSAPILNMSSSSGSSGVHTSWNQGLPSIQH  
FPHSAEMLGSPLVSVEAPGQNVNEGQPFSMPLPERGMSYCPQATLTPSRMIYQCRMSPP  
QQEMTIFSGPQLMPVGEPIPRVARPFGGNLRMPNGLPVSASTGIPIMSHTGNPPVPYP  
GLSTVPSDETLLGPTVPSTEAQAVLPSMAQMLPPQDAHDLGMPPAESQSLVLGSQDSL  
SQPDSQEGPFLPEQPGPAPQTVEKNSRPQEGTGRRGSSEARPYCCNYENCGKAYTKRSHL  
VSHQRKHTGERPYSCNWESCSWSFFRSDELRRHMRVHTRYRPYKCDQCSREFMRSDHLKQ  
HQTTHRPGSPDPQANNNGEQDSPPAAGP

>sp|P57682|KLF3\_HUMAN Krueppel-like factor 3 OS=Homo sapiens GN=KLF3 PE=1 SV=1

MLMFDPPVPVKQEAAMPVSVSYSPNYMESMKPNKYGVIYSTPLPEKFFQTPEGLSHGIQME  
PVDLTVNKRSSPPSAGNSPSSLKFPSSHRRASPGLSMPSSSPIKKYSPPSPGVQPFQVP  
LSMPPVMAAALSRHGIRSPGILPVIQPVVVQVPFMYTSHLQQPLMVSLSSEEMENSSSM  
QVPVIESYEKPIQKKIKIEPGIEPQRTDYYPEEMSPPLMNSVSPPQALLQENHPSVIVQ  
PGKRPLPVESPTQKRRIHRCYDGCNKVYTKSSHLKAHRRTHTGEKPYKCTWEGCTWK  
FARSDDELTRHFRKHTGIKPFQCPDCDRSFSRSDHLALHRKRHMLV

>sp|Q13351|KLF1\_HUMAN Krueppel-like factor 1 OS=Homo sapiens GN=KLF1 PE=1 SV=1

MATAETALPSISTLTALGFPDQTQDDFLKWWRSEEAQDMGPGPDPTPEPLHVKSEDQPG  
EEEDDERGADATWDLDLLLTNFSGPEPGGAPQTCALAPSEASGAQYPPPPETLGAYAGGP  
GLVAGLLGSEDHSGWVRPALRARAPDAFVGPAAPAPAPPEPKALALQPVYPGPGAGSSGG  
YFPRTGLSVPAASGAPYGLLSGYPAMPAPQYQGHFQLFRGLQGPAPGPATSPSFLSCLG



PGTVGTGLGGTAEDPGVIAETAPSKRGRRSWARKRQAAHTCAHPGCGKSYTKSSHLKAHL  
RTHTGEKPYACTWEGCGWRFARSDELTRHYRKHTGQRPFRCLCPRAFSRSDHLALHMKR  
HL

>sp|Q9NVR0|KLH11\_HUMAN Kelch-like protein 11 OS=Homo sapiens GN=KLHL11 PE=1 SV=1  
MAAAVAAAAAAAAAASLQVLEMESMETAAAGSAGLAAEVRGSGTVDFGPGPGISAMEAS  
GGDPGPEAEDEFECSSHCSELSWRQNEQRRQGLFCDITLCFGGAGGREFRAHRSVLAAATE  
YFTPLLSGQFSESRSGRVMERKWSSEPGPEPDTVEAVIEYMYTGRIRVSTGSVHEVLELA  
DRFLLIRLKEFCGEFLKKKLHLSNCVAIHSLAHMYTSLQALKAADMIRRNFKV IQDEE  
FYTLPLFHLIRDWLSLEITVDSEEVLFETVLKWWQRNAEERERYFEELFKLLRLSQMKPT  
YLTRHVKPERLVANNEVCVKLVADAVERHALRAENIQSGTCQHPTSHVSLLPRYGQNM DV  
IMVIGGVSEGGDYLSECVGYFVDEDRWVNLPHIHNHLDGHAVAVTESYVVVAGSMEPGFA  
KTVERYNP NLNTWEHVCSLMTRKHSFGLTEVKGKLYSIGGHGNFSPGFKDVTVYNPEL DK  
WHNLESAPKILRDVKALAIEDRFVYIAARTPVDRDTEGLKAVITCYDTETRWQDVESL  
PLIDNYCFFQMSVNSNFYQTASCCPKSYCLENEEAVRKIASQVSDEILESPPPEVLSIE  
GAAICYKDDVFIIGGWKNSDDIDKQYRKEAYRYCAERKRWMLLPMPQPRCRATACHVR  
IPYRYLHGTQRYPM PQNLMWQKDRIRQM QE IHRHALNMRRVPSSQIEC

>sp|O94889|KLH18\_HUMAN Kelch-like protein 18 OS=Homo sapiens GN=KLHL18 PE=1 SV=3  
MVEDGAELEDLVHFSVSELPSRGYGMEEIRRQGKLCVTLKIGDHKFSAHRIVLAASI  
PYFHAMFTNDMMECKQDEIVMQGMDPSALEALINFAYNGNLAIDQQNVQSLLMGASFLQL  
QSIKDACCTFLRERLHPKNCLGVRQFAETMMCAVLYDAANSFIHQHFVEVSMSEEFALP  
LEDVLELVSRDELNVKSEEQVFEEALAWVRYDREQRGYPPELLSNIRLPLCRPQFLSDR  
VQDDLVRCCHKCRDLVDEAKDYHLMPERRPHLPAFRTRPRCCTSIAGLIYAVGGLNSAG  
DSLNVVEVFDPIANCWERCPRMTTARSRVGVAVVNGLLYAIGGYDGLRLSTVEAYNPET  
DTWTRVGSMSKRSAMGTVVLDGQIYVCGGYDGNSLSSVETYSPELTKWTVVTSMSNR  
SAAGVTVFEGRIYVSGHDGLQIFSSVEHYNHHTATWHPAAGMLNKR CRHGAASLGSKMF  
VCGGYDGSGLSIAEMYSSVADQWCLIVPMHTRRSRVSLVASCGRLYAVGGYDGSNLSS  
VEMYDPETDCWTFMAPMACHEGGVGVCIPLLTI

>sp|Q9UBX7|KLK11\_HUMAN Kallikrein-11 OS=Homo sapiens GN=KLK11 PE=1 SV=2  
MQRLRWLRDWKSSGRGLTAAKEPGARSSPLQAMRILQLILLALATGLVGGETRIIKGFEC  
KPHSQPWQAALFEKTRLLCGATLIAPRWLLTAAHCLKPRYIVHLGQHNLQKEEGCEQTRT  
ATESFPHPGFNNSLPKNKDRNDIMLVKMASPVSITWAVRPLTLSSRCVTAGTSCLISGWG  
STSSPQLRLPHTLRCANITIIHQKCNAYPGNITDTMVCASVQEGGKDSCQGDGGGPLV  
CNQSLQGIISWGQDPCAITRKPGVYTKVCKYVDWIQETMKNN

>sp|Q9UKR0|KLK12\_HUMAN Kallikrein-12 OS=Homo sapiens GN=KLK12 PE=1 SV=1  
MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLT  
AHCSGSRYWVRLGEHLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLRLRPVRV  
TSSVQPLPLPNDCATAGTECHVSGWGITNHPRPFPDLLQCLNLSIVSHATCHGVYPGRI  
TSNMVCAGGVPGQDACQGDGGGPLVCGGVLQGLVSWGSGVPCGQDGI PGVYTYICKYVDW  
IRMIMRNN

>sp|Q9POG3|KLK14\_HUMAN Kallikrein-14 OS=Homo sapiens GN=KLK14 PE=1 SV=2  
MSLRVLGSGTWSPAPKMFLLLTALQVLAIAMTQSQEDENKIIGHTCTRSSQPWQAALLA  
GPRRRFLCGGALLSGQWVITAAHCGRPILQVALGKHNLRWEATQQVLRVVRQVTHPNYN  
SRTHDNDLMLLQLQPARIGRAVRPIEVTQACASPGTSCRVSGWGTISSPIARYPASLQC  
VNINISPDEVCKAYPRTITPGMVCAGVPQGGKDSCQGDGGGPLVCRGQLQGLVSWG MER

CALPGYPGVYTNLCKYRSWIEETMRDK

>sp|P03952|KLKB1\_HUMAN Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

MILFKQATYFISLFATVSCGCLTQLYENAFFRGGDVASMYTPNAQYQCQMRCTFHPRCLLF  
SFLPASSINDMEKRFGCFLKDSVTGTLPKVHRTGAVSGHSLKQCGHQISACHRDIYKGVD  
MRGVNFNVSKVSSVEECQKRCTNNIRCQFFSYATQTFHKAEYRNNCLLKYSPPGGTPTAIK  
VLSNVESGFSCLKPCALSEIGCHMNIFQHLAFSDVDVARVLTPDAFVCRITICTYHPNCLFF  
TFYTNVWKIESQRNVCLLKTSSESTPQENTISGYSLLTCKRTLPEPCHSKIYPGV  
DFGGEELNVTFFVKGVNVCQETCTKMIRCQFFTYSLLPEDCKEEKCKCFLRLSMDGSPTRI  
AYGTQGGSSGYSLRLCNTGDNVCTTKTSTRIVGGTNSSWGEWPWQVSLQVKLTAQRHLGG  
GSLIGHQWVLTAHCFDGLPLQDVWRIYSGILNLSDITKDTPFSSQIKEIIHQNYKVSEG  
NHDIALIKLQAPLNYTEFQKPICLPSKGGTSTIYTNCWVTGWGFSKEKGEIQNILQKVNI  
PLVTNEECQKRYQDYKITQRMVCAGYKEGGKDACGDSGGPLVCKHNGMWRLVGITSWGE  
GCARREQPGVYTKVAEYMDWILEKTQSSDGKAQMQLSPA

>sp|Q3SYF9|KR197\_HUMAN Keratin-associated protein 19-7 OS=Homo sapiens GN=KRTAP19-7 PE=1 SV=1

MSYSGSYGGGLGYGCGGFGGLGYGYSCGCGSFRRLGYGCGYGGYRYSCCHPSCYGGYWSS  
GFY

>sp|Q3LI60|KR203\_HUMAN Keratin-associated protein 20-3 OS=Homo sapiens GN=KRTAP20-3 PE=3 SV=1

MSYYGNYGGGLGYGYDCKYSYTSFGFAFRILDCGYRCGCGGVWI

>sp|Q3LI59|KR212\_HUMAN Keratin-associated protein 21-2 OS=Homo sapiens GN=KRTAP21-2 PE=3 SV=2

MCCNYRNCGGCGYGSWSSGCGYGCYGCYGCYGSRCRYGSGYGTGCGYGCYGSWSSGCGY  
CGYSSSCCGYRPLCYRRCYSSCY

>sp|A1A580|KR231\_HUMAN Keratin-associated protein 23-1 OS=Homo sapiens GN=KRTAP23-1 PE=1 SV=1

MSYNCCCGNFSSHSCGYLCYSGYSRGGSSYPSNLVYSTEPLISQHLPAFLSLQGLSGD  
LLGNP

>sp|Q6PEX3|KR261\_HUMAN Keratin-associated protein 26-1 OS=Homo sapiens GN=KRTAP26-1 PE=1 SV=1

MSCPNYCSGNSNSGLRTRSHIPLTSIDLCPTSVSCGDVLYLPTSSQDHTWVTDNCQETC  
GEPTSCQPVHCETGNLETSCGSSATAYVPRPCQGSFLPASFFSSCLPVSCRPPQRYVSS  
GCRPLRPLLNSYQPIGDCVPNAYRPQFCLSKSCQPQNLLTSGCQPSSCLAYRPQSLHVVS  
SSLRPLGLPFGCQPLTHVFSTCRPSCSGL

>sp|Q6L8G5|KR510\_HUMAN Keratin-associated protein 5-10 OS=Homo sapiens GN=KRTAP5-10 PE=2 SV=1

MGCCGCSGGCGSGCGGCGSGCGGCGSGCGGYGSGCGGCGSSCCVPVCCCKPVCCCVACS  
CSSCGSCGGSKGDCGSCGSGKGGCGSCGSGKGGCGSCGSGKGGCGSCGSGKGGCGSCGGS  
KGGCGSCGSGKGGCGSCGSCQNCCKPCCSSGCGSCCQSSCCNPCCCQSSCCVPVCCQS  
SCCKPCCCQSSCCVPVCCQCKI

>sp|Q9BYR8|KRA31\_HUMAN Keratin-associated protein 3-1 OS=Homo sapiens GN=KRTAP3-1 PE=1 SV=1

MYCCALRSCSVPTGPATTFCSFDKSCRCGVCLPSTCPHEISLLQPICCDTCPPPCCKPDT  
YVPTCWLLNNCHPTPLSGINLTTYVQPGCESPCEPRC

>sp|Q9NSB4|KRT82\_HUMAN Keratin, type II cuticular Hb2 OS=Homo sapiens GN=KRT82 PE=3 SV=3  
MSYHSFQPGSRCGSQSFSSYSAVMPRMVTHYAVSKGPCRPGGGRGLRALGCLGSRSLCNV  
GFGRPRVASRCGTLPGFGYRLGATCGPSACITPVTINESLLVPLALEIDPTVQVRKRDE  
KEQIKCLNNRFASFINKVRFLEQKNKLETKWNFMQQQRCCQTNIEPIFEGYISALRRQL  
DCVSGDRVRLESELCSLQAALLEGYKKKYEEELSLRPCVENEFVALKKDVDTAFLMKADLE  
TNAEALVQEIDFLKSLYEEEICLLQSQISETSVIVKMDNSRELDVDGIIAEIKAQYDDIA  
SRSKAEAEAWYQCRYEELRVTAGNHCDNLRNRKNEILEMNKLIQRLQQETENVKAQRCKL  
EGAI AEAEQQGEAALNDAKCKLAGLEEALQKAKQDMACLLKEYQEVMSKLGLDIEIATY  
RRLLEGEEHRLCEGIPVNISSSSKGAFLYPCGVSTPVLSTGVLRNNGGCSIVGTGEL  
YVPCEPQGLLSCGSGRKSSMTLGAGGSSPSHKH

>sp|P78385|KRT83\_HUMAN Keratin, type II cuticular Hb3 OS=Homo sapiens GN=KRT83 PE=1 SV=2  
MTCGFNSIGCGFRPGNFSCVSACGPRPSRCCITAAPYRGISCYRGLTGGFGSHSVCGGFR  
AGSCGRSFGYRSGGVCGPSPPCITTVSVNESLLTPLNLEIDPNAQCVKQEEKEQIKSLNS  
RFAAFIDKVRFLQKNKLETKLFYQNRCCQSNLEPLFAGYIETLRREAECVEADSGR  
LASELNHVQEVLEGYKKKYEEVALRATAENEFVALKKDVCAYLRKSDLEANVEALIQE  
IDFLRRLYEEEIRILQSHISDTSVVVKLDNSRDLNMDCIVAEIKAQYDDIATRSRAEAS  
WYRSKCEEMKATVIRHGETLRRTKEEINELNRMIQRLTAEVENAKCQNSKLEAAVAQSEQ  
QGEAALSDARCKLAELEGALQKAKQDMACLIREYQEVMSKLGLDIEIATYRRLLEGEEQ  
RLCEGVEAVNVCSSSRGGVCGDLCSGSRPVTGSVCSAPCNGNLVVSTGLCKPCGQLN  
TTGGGSCGQGRH

>sp|O75582|KS6A5\_HUMAN Ribosomal protein S6 kinase alpha-5 OS=Homo sapiens GN=RPS6KA5  
PE=1 SV=1  
MEEEGSSGGAAGTSADGGDGGEQLLTVKHELRTANLTGHAEKVGIEFELLKVLGTGAY  
GKVFLVRKISGHDTGKLYAMKVLKKATIVQKAKTTEHTRTERQVLEHIRQSPFLVTLHYA  
FQTETKLHLILDYINGGELFTHLSQRERFTEHEVQIYVGEIVLALEHLHKLGIYRDIKL  
ENILLDSNGHVVLTDGLSKEFVADETERAYSFCGTIEYMAPDIVRGDSGHDKAVDWW  
LGVLMYELLTGASPFVTDGEKNSQAEISRRILKSEPPYPQEMSALAKDLIQRLLMKDPKK  
RLGCGPRDADEIKEHLFFQKINWDDLAAKKVPAPFKPVIRDELVSNFAEEFTEMDPTYS  
PAALPQSSEKLFQGYSFVAPSILFKRNAVIDPLQFHMGVERPGVTNVARSAMMKDSPFY  
QHYDLDLKDKPLGEGSFSICRKCVRHKKSNQAFVKIISKRMEANTQKEITALKLCEGHPN  
IVKLHEVFHDQLHTFLVMELNNGGELFERIKKKKHFSETEASYIMRKLVSASHMHDVGV  
VHRDLKPENLLFTDENDNLEIKIIDFGFARLKPPDNQPLKTPCFTLHYAAPELLNQNGYD  
ESCDLWSLGVILYTMLSGQVPFQSHDRSLTCTSAVEIMKKIKKGDFSFEGEAWKNVSQEA  
KDLIQGLLTVDPNKRKMSGLRYNEWLQDGSQSSNPLMTPDILGSSGAHVTCVKATFH  
AFNKYKREGFCLQNVDKAPLAKRRKMKKTSTSTETRSSSESSHSSSSHSHGKTTPTKTL  
QPSNPADSNNPETLFQFSDSVA

>sp|Q14525|KT33B\_HUMAN Keratin, type I cuticular Ha3-II OS=Homo sapiens GN=KRT33B PE=1  
SV=3  
MPYNFCLPSLSCRTSCSSRPCVPPSCHGYTLPGACNIPANVSNCNWFCEGSFNGSEKETM  
QFLNDRLASYLEKVRQLERDNAELENLIRERSQQQEPLLCPSYQSYFKTIEELQQKILCS  
KSENARLVVQIDNAKLAADDFTKYQTEQSLRQLVESDINSLRRILDELTLCRSDLEAQM  
ESLKEELLSLKQNHQEVNTLRCQLGDRLNVEVDAAPAVDLNQVLNETRNQYEALVETNR  
REVEQWFATQTEELNKQVVSSEQLQSYQAEIIELRRTVNALEIELQAQHNLRYSLENTL  
TESEARYSSQLSQVQSLITNVESQLAEIRSDLERQNQEYQVLLDVRARLECEINTYRSL

ESEDCKLPSNPCATTNACEKPIGSCVTNPGPRSRCGPCNTFGY

>sp|Q63HM1|KFA\_HUMAN Kynurenine formamidase OS=Homo sapiens GN=AFMID PE=2 SV=2

MMDVSGVGFPSPKVPWKMSAEELNQYCPSRWVRLGAEALRTYSQIGIEATTRARATR  
KSL LHVPYGDGEKEVDIYFPDESSEALPFFLFFHGGYWQSGSKDESAFMVHPLTAQGVA  
VVIVAYGIAPKGTLDHMVDQVTRSVAFAVQKRYPSNKG IYLCGHSAGAHLAAMMLLADWTK  
HGVTPLNRGFFLVSGVFDLEPIVYTSQNVALQLTLEDAQRNSPQLKVAQAQPVDPTRCVL  
VVVGQFDSPEFHRQSWEFYQTLQCQGEWKASFEELHDVDHFEIVENLTQKDNVLTQIILKT  
IFQ

>sp|075037|KI21B\_HUMAN Kinesin-like protein KIF21B OS=Homo sapiens GN=KIF21B PE=1 SV=2

MAGQGDCCVKVAVRIRPQLSKEKIEGCHICTSVTPGEPQVLLGKDKAFTYDFVFDLDTWQ  
EQIYSTCVSKLIEGCFEGYNATVLAYGQTGAGKTYTMGTGFDMATSEEEQGIIPRAIAHL  
FGGIAERKRRAEQGVAGPEFKVSAQFLELYNEEILDLFDSTRDPDTRHRSNIKI HEDA  
NGGIYTTGVT SRLIHSQEELIQCLKQGALSRTTASTQMNQSSRSHAI FTIHL CQMRMCT  
QPDLVNEAVTGLPDGTPPSSEYETLTAKFHFVDLAGSERLKRTGATGERAKEGISINCG  
LALGNVISALGDQSKKVHVHPYRDSKLTRLQLDSLGGNSQTIMIACVSPSDRDFMETLNT  
LKYANRARNIKNKVVVNQDKTSQQISALRAEIARLQMELEMYKAGKRVIGEDGAEGYSDL  
FRENAMLQKENGALRLRVKAMQEIDA INN RV TQLMSQEANLL LAKAGDGNEAIGALIQN  
YIREIEELRTKLLESEAMNESLRRSLSRASRSPYSLGASPAAPAFGGSPASSMEDASEV  
IRRAKQDLERLKKKEVRQRRKSPEKEAFKKRAKLQQENSEETDENEAE EEEEEERDESGCE  
EEEGREDEDEDSGSEESLVDSDSPEEKEVNFQADLADLTCEIEIKKLIDELNSQRR  
QTLKHQYEEKLILLQNKIRDTQLERDRV LQNLSTMECYTEEKANKIKADYEKRLREMN  
RD LQKLQAAQKEHARLLKNQSR YERELKKLQAEVAEMKKAKVALMKQMREEQRRRLVET  
KR NREIAQLKKEQRRQEFQIRALESQKRQEMVLRRKTQEV SALRRLAKPMSERVAGRAGL  
K PMLDSGAEVSASTTSSEAESGARSVSSIVRQWNRKINHFLGDHPAPT VNGTRPARKKFQ  
KKGASQSF SKAARLKWQSLERRIIDIVMQRMTIVNLEADMERLIK KREELFLLQEALRR  
K RERLQAESPEEEKGLQELAEIEVLAANIDYINDGITDCQATIVQLEETKEELDSTDTSV  
VISSCSLAEARLLLDNFLKASIDKGLQVAQKEAQIRLLEGRLRQTD MAGSSQNHL LLDAL  
REKAEAHPELQALIYNVQQENG YASTDEEISEFSEGSFSQSFTMKGSTSHDDFKFKSEPK  
LSAQMKAVSAECLGPPLDISTKNITKSLASLVEIKEDGVGFSVRDPYYRDRVSRTVSLPT  
RGSTFPRQSRATETSPLTRRKS YDRGQPIRSTDVGFTPPSSPPTPRNDRNVFSRLTSNQ  
SQGSALDKSDSDSSLSEVL RGIISPVGGA KGARTAPLQCVSMAEGHTKPI LCLDATDEL  
LFTGSKDRSCKMWNLV TGQEI AALKGHPNNVSIKYCSHSGLVFSVSTSYIKVWDIRDSA  
KCIRTLTSSGQVISGDACAATSTRAITSAQGEHQINQIALSPSGTMLYAASGN AVRIWEL  
SRFQPVGKLTGHIGPVMCLTVTQTASQHDLVVTGSKDHVYKMFELGECVTGTIGPTHNFE  
PPHYDGIECLA IQGDI LFSGRDNGIKKWDLDQQLIQQIPNAHKDWVCALAFIPGRPML  
LSACRAGVIKVVNVDNFTPIGEIKGHDSPINAICTNAKHIFTASSDCRVKLWNYVPLTP  
CLPRRVLAIKGRATLP

>sp|P43627|KI2L2\_HUMAN Killer cell immunoglobulin-like receptor 2DL2 OS=Homo sapiens  
GN=KIR2DL2 PE=1 SV=1

MSLMVVMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEHFL  
HREGKFKDTLHLIGEHHDGVS KANF SIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDI  
VITGLYEKPSLSAQPGPTVLAGE SVTLSCSSRSSYDMYHLSREGEAHECRFSAGPKVNGT  
FQADFPLGPATHGGTYRCFGSFRDSPYEWSSNDPLL SVIGNPSNSWSPSTEPSSKTGN  
PRHLHILIGTSVVIILFILLFLLHRWCSNKKNAAVMDQESAGNRTANSEDSDEQDPQEV

TYTQLNHCVFTQRKITRPSQRPKTPPTDIIIVYAELPNAESRSKVVSCP

>sp|Q8N109|KI2LA\_HUMAN Killer cell immunoglobulin-like receptor 2DL5A OS=Homo sapiens  
GN=KIR2DL5A PE=3 SV=1

MSLMVISMACVGFLLQGAWTHEGGQDKPLLSAWPSAVVPRGGHVTLLCRSRLGFTIFSL  
YKEDGVVPPELYNKIFWKSILMGPVTPAHAGTYRCRGSHPRSPIEWSAPSNPLVIVVTGL  
FGKPSLSAQPGPTVRTGENVTLSCSSRSSFDMYHLSREGRAHEPRLPAVPSVNGTFQADF  
PLGPATHGGTYTCFGLHDSPEYWDSPDPLLVSVTGNSSSSSSSPTESPSTGIRRHLLH  
ILIGTSVAIILFIILFFLLHCCSNKNAAVMDQEPAGDRTVNREDSDDQDPQEVTYAQ  
LDHCVFTQTKITSPSQRPKTPPTDTTMYMELPNAKPRSLSPAHKHHSQALRGSSRETTAL  
SQNRVASSHVPAAGI

>sp|Q8IZU9|KIRR3\_HUMAN Kin of IRRE-like protein 3 OS=Homo sapiens GN=KIRREL3 PE=1 SV=1

MKPFQLDLLFVCFLLFSQELGLQKRGCLVLGYMAKDKFRMNEGQVYSFSQQPDQVVV  
SGQPVTLLCAIPEYDGFVLWIKDGLALGVGRDLSSYPQYLVVGNHLSGEHHLKILRAELQ  
DDAVYECQAIQAIRSRPARLTVLPPDDPVILGGPVISLRAGDPLNLTCHADNAKPAAS  
IIWLKGEVINGATYSKTLRLDGKRESIVSTLTFISPGDVENGQSIVCRATNKAIPGGKET  
SVTIDIQHPPLVNLSVEPQPVLEDNVVTFHCSAKANPAVTQYRWAKRGQIIKEASGEVYR  
TTVDYTYFSEPVSCVTNALGSTNLSRTVDVYFGPRMTTEPQSLLVDLGSDAIFSCAWTG  
NPSLTIIVWMKRGSGVLSNEKTLTLKSVRQEDAGKYVCRAVVRVVGAGEREVTLTVNGPP  
IISSTQTQHALHGEKGQIKCFIRSTPPPDRIAWSWKENVLESGTSGRYTVETISTEEGVI  
STLTISNIVRADFQTIYNCTAWNSFGSDTEIIRLKEQGSEMKGAGLEAESVPMAVIIGV  
AVGAGVAFLVLMATIVAFCCARSQRNLKGVVSAKNDIRVEIVHKEPASGREGEHSTIKQ  
LMMDRGEFQQDSVLKQLEVLKEEEKEFQNLKDPTNGYYSVNTFKEHHSTPTISLSSCQPD  
LRPAGKQRVPTGMSFTNIYSTLSGQGRLYDYGQRFVLGMGSSSIELCEREFQRGSLSDSS  
SFLDTQCDSSVSSSGKQDGYVQFDKASKASASSSHHSQSSSQNSDPSRPLQRRMQTHV

>sp|Q07866|KLC1\_HUMAN Kinesin light chain 1 OS=Homo sapiens GN=KLC1 PE=1 SV=2

MYDNMSTMVYIKEDKLEKLQDEIISKTKQVIQGLEALKNEHNSILQSLETLKCLKKDD  
ESNLVEEKSNMIRKSLEMLELGLSEAQVMMALS NHLNAVESEKQKLRAQVRRLCQENQWL  
RDELANTQQKLKQSEQSAQLEEEKKHLEFMNQLKKYDDDISPSEDKDSTDSTKEPLDDL  
PNDEDDPGQGIQQQHSSAAAAAQGGYEIPARLRTLHNLVIQYASQGRYEVAVPLCKQAL  
EDLEKTSBGHDHPDVATMLNILALVYRDQNKYKDAANLLNDALAIREKTLGKDHPAATL  
NNLAVLYGKRGKYKEAEPLCKRALEIREKVLGKDHPDAKQLNNLALLCQNGKYEEVEY  
YYQRALEIYQTKLGPDNPVAKTKNNLASCYLKQGKFKQAEPLYKEILTRAHEREFGSVD  
DENKPIWMHAEERECKGKQKDGTSFGEYGGWYKACKVDSPTVTTLKNLGALYRRQGKF  
EAAETLEEAAMRSRKQGLDNVHKQRAEVLNDPENMEKRRSRESLNDVVKYESGPDGGE  
EVSMSEVWNGGVSGRASFCGRQQQWPGRHR

>sp|Q9NSK0|KLC4\_HUMAN Kinesin light chain 4 OS=Homo sapiens GN=KLC4 PE=1 SV=3

MSGLVLGQRDEPAGHRLSQEEILGSTRLVSQGLEALRSEHQAVLQSLSQTIECLQQGGHE  
EGLVHEKARQLRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRRLCQENQWL  
DELACTQQLRSEQAVAAQLEEEKKHLEFLGQLRQYDEDGHTSEEKEGDKSLDDLFP  
NEEEEDPSNGLSRQGATAAQGGYEIPARLRTLHNLVIQYAAQGRYEVAVPLCKQAL  
LERTSGRGHPDVATMLNILALVYRDQNKYKEAHLNDALSIRESTLGPDPHPAATLNN  
LAVLYGKRGKYKEAEPLCQRALEIREKVLGTNHPDAKQLNNLALLCQNGKYEAVERY  
QALAIYEGQLGPDNPVARTKNNLASCYLKQGYAAETLYKEILTRAHVQEFQSVDDD  
HKPIWMHAEEREEMSKSRHHEGGTPYAEYGGWYKACKVSSPTVNTTLRNLGALYRRQGKL

EAAETLEECALRSRRQGTDPISQTKVAELLGESDGRRTSQEGPGDSVKFEGGEDASVAVE  
WSGDGSGTLQRSGSLGKIRDVLRSSSELLVRKLQGTETPRSSSNMKRAASLNYLNQPSAA  
PLQVSRGLSASTMDLSSSS

>sp|Q8TD94|KLF14\_HUMAN Krueppel-like factor 14 OS=Homo sapiens GN=KLF14 PE=2 SV=1  
MSAAVACLDFAAECLVMSAGAVVHRRPPDPEGAGGAAGSEVGAAHPESALPGPGPSGP  
ASVPQLPQVPAPSPGAGGAAPHLAASVWADLRGSSGEGSWENSGEAPRASSGFSDPIPC  
SVQTPCSELAPASGAAAVCAPESSDAPAVPSAPAAPGAPAAASGGFSGGALGAGPAPAAD  
QAPRRRSVTPAAKRHQCPFPGCTKAYYKSSHLKSHQRTHTGERPFSCDWLDCDKKFTRSD  
ELARHYRTHTGEKRFSCPLCPKQFSRSDHLTKHARRHPTYHPDMIEYRGRRTTPRIDPPL  
TSEVESSASGSGPGAPSFTTCL

>sp|Q9Y5W3|KLF2\_HUMAN Krueppel-like factor 2 OS=Homo sapiens GN=KLF2 PE=1 SV=2  
MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEA  
APEPPPPPPPPAFYYPEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGR  
VKAEPPEADGGGGYGAPGLTRGPRGLKREGAPGAASCMRGPGRPPPPDTPPLSPDG  
PARLPAPGPRASFPFPGGPGFAGPGGLHYAPPAPAFGLFDDAAAAAALGLAPPAAR  
GLLTPPASPLELLEAKPKRGRSWSWRKRTATHTCSYAGCGKTYTKSSHLKAHLRTHTGEK  
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

>sp|075840|KLF7\_HUMAN Krueppel-like factor 7 OS=Homo sapiens GN=KLF7 PE=2 SV=1  
MDVLASYISIFQELQLVHDTGYFSALPSLEETWQQTCLELERYLQTEPRRISETFGEDLDC  
FLHASPPPCIEESFRRLDPLLLPVEAAICEKSSAVDILLSRDKLLSETCLSLQPASSSLD  
SYTAVNQAQLNAVTSLTPSPPELSRHLVKTSQTLASVDGTVTLKLVAKKAALSSVKVGG  
VATAAAAVTAAGAVKSGQSDSDQGGGAEACPENKKRVHRCQFNGCRKVYTKSSHLKAHQ  
RTHTGEKPYKCSWEGCEWRFARSDELTRHYRKHTGAKPFKCNHCDRCFSRSDHLALHMKR  
HI

>sp|Q9P2N7|KLH13\_HUMAN Kelch-like protein 13 OS=Homo sapiens GN=KLHL13 PE=1 SV=3  
MPLKWKTSSPAIFKFPVPLKTSRSTPLSPAYISLVEEDQHMKLSLGGSEMGLSSHLQS  
SKAGPTRIFTSNTHSSVVLQGFQDLRLEGLLCDVTLMPGDTDDAFPVHRVMMASASDYFK  
AMFTGGMKEQDLMCIKLHGVSKVGLRKIDFIYAKLSLNDNLQDTLEAASFLQILPVL  
DFCKVFLISGVTLDNCVEVGRIANTYNLTVDKYVNSFVLKNFPALLSTGEFLKLPFERL  
AFVLSSNSLKHCTELELFKATCRWLRLEPRMDFAAKLMKNIRFPLMTPQELINYVQTV  
FMRTDNTCVNLLLEASNYQMPPYMQPVMQSDRTAIRSDTTHLVTLGGVLRQQLVVSKE  
MYDEKAHEWKS LAPDPYQHGI AVIGNFLYVVGGSNYDTKGKTAVDTVFRFDPRYNK  
WMQVASLNEKRTFFHLSALKGYLYAVGGRNAAGELPTVECYNPTNEWTVYAKMSEPHYG  
HAGTVYGGVMIYSGGITHDTFQKELMCFDPDQKWIQKAPMTTVRGLHCMCTVGERLYVI  
GGNHFRGTSYDDVLSCEYYSPILDQWTPIAAMLRGQSDVGAVFENKIYVVGYSWNNR  
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>sp|Q9C0H6|KLHL4\_HUMAN Kelch-like protein 4 OS=Homo sapiens GN=KLHL4 PE=1 SV=2  
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GLKKSNSPVHHNILAPVPGPAPAHQRAVQNLQQHNLIVHFQANEDTPKSVPEKNLFKEAC  
EKRAQDLEMMADDNIEDSTARLDTQHSSEDMNATRSEEQFHVINHAEQTLRKMENYLKEKQ  
LCDVLLIAGHLRIPAHRLVLSAVSDYFAAMFTNDVLEAKQEEVRMEGVDPNALNSLVQYA  
YTGVLQLKEDTIESLLAAACLLQLTQVIDVCSNFLIKQLHPSNCLGIRSFQDAQGC  
TELLNVAHKYTMHFIEVIKNQEFLLLPANEISKLLCSDDINVPDEETIFHALMQWVGHDVQNR  
QGELGMLLSYIRLPLLPQLLADLETSSMFTGDLECCQKLLMEAMKYHLLPERRSMMQSPR

TKPRKSTVGALYAVGGMDAMKGTTTIEKYDLRTNSWLHIGTMNGRRLQFGVAVIDNKLYV  
VGGRDGLKTLNTECFNPVGKIWTVMPPMSTHRHGLGVATLEGPMYAVGGHDGWSYLVNTV  
ERWDPEGRQWNYVASMSTPRSTVGVALNNKLYAIGGRDGSSCLKSMEYFDPHTNKWSLC  
APMSKRRGGVGVATYNGFLYVVGHDAPASNHCSRLSDCVERYDPKGDSWSTVAPLSVPR  
DAVAVCPGLGDKLYVVGVDGHTYLVNTVESYDAQRNEWKEEVPVNIGRAGACVVVVKLP

>sp|Q9P2G9|KLHL8\_HUMAN Kelch-like protein 8 OS=Homo sapiens GN=KLHL8 PE=1 SV=4

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YENGELCDVTLKVGSKLISCHKLVLACVIPYFRAMFLSEMAEAKQTLIEIRDFDGDIED  
LVKFVYSSRLTLTVDNVQPLLYAACILQVELVARACCEYMKLHFHPSNCLAVRAFAESHN  
RIDLMDMADQYACDHFTEVVECEDFVSVSPQHLHKLSSSDLNIENTEKQVYNAAIKWLLA  
NPQHHSKWLDETLAQVRLPLLPVDFLMGVVAKEQIVKQNLKCRDLLDEARNYHLHLSSRA  
VPDFEYSIRTTPRKHTAGVLFVGGGGSGDPFRSIECYSINKNSWFFGPEMNSRRRHVG  
VISVEGKVYAVGGHDGNEHLGSMEMFDPLTNKMMKASMNTRRGIALASLGGPIYAIGG  
LDDNTCFNDVERYDIESDQWSTVAPMNTPRGGVGSVALVNHVYAVGGNDGMASLSSVERY  
DPHLDKWIEVKEMGQRRAGNGVSKLHGCLYVVGFDNSPLSSVERYDPRSNKWDYVAAL  
TTPRGVGVIATVMGKIFAVGGHNGNAYLNTVEAFDPVLNRWELVGSVSHCRAGAGVAVCS  
CLTSQIRDVGHGSNNVDCM

>sp|Q9UEF7|KLOT\_HUMAN Klotho OS=Homo sapiens GN=KL PE=1 SV=2

MPASAPRRRPPPPSLSLLLVLLGLGRRRLRAEPDGAQTWARFSRPPAPEAAGLFQGT  
FPDGLFWAVGSAAYQTEGGWQQHGKGASIWDTFTTHPLAPPGDSRNASLPLGAPSPLQPA  
TGDVASDSYNNVFRDTEALRELGVTHYRFSISWARVLPNGSAGVPNREGLRYRRLLERL  
RELGVQPVVTLYHWDLPQRLQDAYGGWANRALADHFRDYAELCFRHFQGVKYWITIDNP  
YVVAWHGYATGR LAPGIRGSPRLGYLVAHNLLLAHAKVWHLYNTSFRPTQGGQVSIALSS  
HWINPRRMTDHSIKECQKSLDFVLGWFAPVFDGDYPESMKNLSSILPDFTESEKKFI  
KGTADFFALCFGPTLSFQLLDPHMKFRQLESPNLRQLLSWIDLEFNHPQIFIVENGWFVS  
GTTKRDDAKYMYLKKFIMETLKAIKLDGVDVIGYTAWSLMDGFEWHRGYSIRRGLFYVD  
FLSQDKMLLPKSSALFYQKLEKNGFPPLPENQPLEGTFPCDFAWGVVDNYIQVDTLSQ  
FTDLNVYLWDVHHSKRLIKVDGVVTKKRKSYCVDFAAIQPQIALLQEMHVTHFRFSLDWA  
LILPLGNQSQVNHTILQYYRCMASELVRVNITPVVALWQPMAPNQGLPRLLARQGAWENP  
YTALAFAEYARLCFQELGHVVKLWITMNEPYTRNMTYSAGHNLLKAHALAWHVYNEKFRH  
AQNGKISIALQADWIEPACPFQKDKVAERVLDFDIGWLAEPFIGSGDYPWVRDNLN  
RNNFLLPYFTEDEKKLIQGTDFLALSHYTTILVDSEKEDPIKYNDYLEVQEMTDITWLN  
SPSQVAVVPWGLRKVLNWLKFKYGDLPYIISNGIDDGLHAEDDQLRVYMQNYINEALK  
AHILDGINLCGYFAYSFNDRTAPRFGLYRYAADQFEPKASKMHYRKIIDSNGFPGPETLE  
RFCPEEFTVCTECSFFHTRKSLAFIAFLFFASIIISLSLIFYYSKKGRRSYK

>sp|Q96E93|KLRG1\_HUMAN Killer cell lectin-like receptor subfamily G member 1 OS=Homo sapiens GN=KLRG1 PE=1 SV=1

MTDSVIYSMLELPTATQAQNDYGPQQKSSSSRPSCSCLVAIALGLLTAVLLSVLLYQWIL  
CQGSNYSTCASCSPCDRWMKYGNHCYYFSVEEKDWNSSLEFCLARDSHLLVITDNQEMS  
LLQVFLSEAFWCWIGLRNNSGWRWEDGSPLNFSRISNSFVQTCGAINKNGLQASSCEVPL  
HWVCKKCPFADQALF

>sp|Q9UMN6|KMT2B\_HUMAN Histone-lysine N-methyltransferase 2B OS=Homo sapiens GN=KMT2B PE=1 SV=1

MAAAAGGGSCPGPSARGRFPGRPRGAGGGGGRGNGAERVVALRRGGGATGPGGAE

PGEDTALLRLLGLRRGLRRLRRLWAGPRVQRGRGRGRGWGPSRGCVPEEESSDGESDE  
EEFQGFHSDEDEVAPSSLRALSQRGRAPRGRGRKHKTTPPPPRLADVAPTPPKTPARK  
RGEETERMVALTELLRRAQAPQAPRSRACEPSTPRRSRGRPPGRPAGPCRRKQQAQVVV  
AEAAVTIPKEPPPPVVPVKHQTGSWKCKEGPGPGPTPRRGQSSRGGRGRGRGRGGG  
LPFVIKFVSRRAKKVKGQSLGLESGGGQGHESWQDVPQRRVGSQGGSPCWWKQEQK  
LDDEEEEEKKEEEEKKEGEEKEERAVAEEMMPAAEKEEAKLPPPPLTPPAPSPPPPLPPP  
STSPPPPLCPPPPPPVSPPLSPPPPPAQEEQESPPPVVPATCSRKRGRPLTPSQRA  
EREAARAGPEGTSPPTPTSTATGGPPEDSPTVAPKSTTFLKNIRQFIMPVVSARSSRVI  
KTPRRFMDEDPPKPPKVEVSPVLRPPIITSPVPQEPAPVPSPPRAPTPPSTPVPLPEKR  
RSILREPTFRWTSLTRELPPPPAPPPPPAPSPPPAPATSSRRPLLLRAPQFTPSEHLK  
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PHGAPALSNPGTQAQLLQPLQALQTQLLPQALPPPQQLQPPSPQQMPPLEKARIAGV  
GSLPLSGVEEKMFSLLKRAKVQLFKIDQQQQQKVAASMPSPGGQMEEVAGAVKQISDRG  
PVRSEDESVEAKRERPSGPESPVGPRIKHVCRAHAVALGQARAMVPEDVPRLSALPLRD  
RQDLATEDTSSASETESVPSRSRRGKVEAAGPGGESEPTGSGGTLAHTPRRSLPSHHGKK  
MRMARCGHCRGCLRVQDCGSCVNCLDKPKFGGPNTKKQCCVYRKCDKIEARKMERLAKKG  
RTIVKTLLPWDSDESPEASPGPPGPRRGAGAGGPREEVVAHPGPEEQDSLQRKSARRCV  
KQRPSYDIFEDSDDEPGPPAPRRRTPRENELPLPEPEEQSRPRKPTLQPVLLQKARRR  
LDKDALAPGPFASFPNGWTGKQKSPDGVHRVRVDFKEDCDLENVWLMGGLSVLTSVPGGP  
PMVCLLCASKGLHELVCQVCCDFPHFPCLEEAERPLQHHDTWCCRCKFCHVCGRKGR  
GSKHLEECERCRHAYHPACLGPSYPTRATRKRRHWICSACVRCKSCGATPGKNWDVEWSG  
DYSLCPRCTQLEYKGYCPICTRCYEDNDYESKMMQCAQCDHWVHAKCEGLSDEDYEILS  
GLPDSVLYTCGPCAGAAQPRWREALSGALQGGLRQVLQGLSSKVVGPLLLCTQCGPDGK  
QLHPGPCGLQAVSQRFEDGHYKSVHSFEMDMVGILMRHSEEGETPDRRAGGQMKGLLLKL  
LESAFGWFDHDPKYWRRSTRLPNGVLPNAVLPPLSDHVYAQWRQEPETPESGQPPGDP  
SAAFQKGDPAAAFSHLEDPRQCALCLKYGDADSKEAGRLLYIGQNEWTHVNCAIWSAEVFE  
ENDGSLKNVHAAVARGRQMRCELCLKPGATVGCCLSSCLSNFHFMCARASYCIFQDDKKV  
FCQKHTDLLDGKEIVNPDGFDVLRVYVDFEGINFKRKFLTGLEPDAINVLIGSIRIDSL  
GTLSDLSDCEGRLFPIGYQCSRLYWSTVDARRRCWYRCRILEYRPWGPREEPAHLEAAEE  
NQTIVHSPAPSSEPPGGEDPPLDLDVLPVGPAPERHSPIQNLDPPLRPDSGSAPPPAPRSF  
SGARIKVPNYSPSRRLGGVSFGLPLSPGSPSSLTHHIPTVGDPDFAPRRSRRLPSLA  
PRPPPSRWASPLKTSPQLRVPPPTS SVTAL TPTSGELAPPGAPSPPPPEDLGPDFEDM  
EVVSGLSAADLFAASLLGTEPFQEEIVAAGAMGSSHGGPGDSSEEESSPTSRYIHFPVT  
VVSAPGLAPSATPGAPRIEQLDGVDDGTDSEAEAVQQPRGQGTTPSGPGVVVAGVLGAAG  
DRARPPEDLPSEIVDFVLKNLGGPGDGGAGPREESLPAPPLANGSQPSQGLTASPADPT  
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PPTISPTAPTSWTLPPGPLLGVLPVVGVRPAPPPPPPLTLVLSSGPASPPRQAIRVKR  
VSTFSGRSPPAPPYKAPRLDEGEASEDTPQVPLGSGGFSRVRMKTPTVRGVLDLDRP  
GEPAGEESPGPLQERSPLLPEDGPPQVPDGPDLLESQWHHYSGEASSSEEEPPSPD  
DKENQAPKRTGPHLRFEISSDGFSVEAESLEGAWRTLIEKVQEARGHARLRHLSFSGMS  
GARLLGIHHDVIFLAEQLPGAQRCQHYKFRYHQGGEGQEEPLNPHGAARAEVYLRKCT  
FDMFNFLASQHRVLPAGATCDEEEDVQLRSTRRATSLELPMAMFRHLKKTKEAVGVY  
RSAIHGRGLFCKRNIDAGEMVIEYSGIVIRSVLTDKREKFDGKGIGCYMFRMDDFDVVD  
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LPCNCGAKRCRRFLN

>sp|O14686|KMT2D\_HUMAN Histone-lysine N-methyltransferase 2D OS=Homo sapiens GN=KMT2D  
PE=1 SV=2

MDSQKLAGEDKDEPAADGPAASEDPSATESDLPNPHVGEVSVLSSGSPRLQETPQDCSG  
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>sp|P46019|KPB2\_HUMAN Phosphorylase b kinase regulatory subunit alpha, liver isoform  
OS=Homo sapiens GN=PHKA2 PE=1 SV=1

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>sp|Q93100|KPB\_B\_HUMAN Phosphorylase b kinase regulatory subunit beta OS=Homo sapiens  
GN=PHKB PE=1 SV=3

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>sp|P17252|KPCA\_HUMAN Protein kinase C alpha type OS=Homo sapiens GN=PRKCA PE=1 SV=4

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>sp|Q5T749|KPRP\_HUMAN Keratinocyte proline-rich protein OS=Homo sapiens GN=KPRP PE=1 SV=1

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>sp|Q96QS6|KPSH2\_HUMAN Serine/threonine-protein kinase H2 OS=Homo sapiens GN=PSKH2 PE=2  
SV=1

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>sp|A0A075B6P5|KV228\_HUMAN Immunoglobulin kappa variable 2-28 OS=Homo sapiens GN=IGKV2-  
28 PE=3 SV=1

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>sp|P32004|L1CAM\_HUMAN Neural cell adhesion molecule L1 OS=Homo sapiens GN=L1CAM PE=1 SV=2

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>sp|A6NMS7|L37A1\_HUMAN Leucine-rich repeat-containing protein 37A OS=Homo sapiens GN=LRRC37A PE=2 SV=3

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>sp|Q49AS3|L37A5\_HUMAN Putative protein LRRC37A5P OS=Homo sapiens GN=LRRC37A5P PE=5 SV=3  
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>sp|Q6GTx8|LAIR1\_HUMAN Leukocyte-associated immunoglobulin-like receptor 1 OS=Homo  
sapiens GN=LAIR1 PE=1 SV=1

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>sp|P25391|LAMA1\_HUMAN Laminin subunit alpha-1 OS=Homo sapiens GN=LAMA1 PE=1 SV=2

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>sp|P24043|LAMA2\_HUMAN Laminin subunit alpha-2 OS=Homo sapiens GN=LAMA2 PE=1 SV=4  
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>sp|Q16787|LAMA3\_HUMAN Laminin subunit alpha-3 OS=Homo sapiens GN=LAMA3 PE=1 SV=2

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>sp|P55268|LAMB2\_HUMAN Laminin subunit beta-2 OS=Homo sapiens GN=LAMB2 PE=1 SV=2

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>sp|A4D0S4|LAMB4\_HUMAN Laminin subunit beta-4 OS=Homo sapiens GN=LAMB4 PE=2 SV=1

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RISGAPCQPCACNNNIDVTDPESCSRVTGECLRCLHNTQGANCQLCKPGHYGSALNQTCR  
RCSCHASGVSPMECP PGGGACLPVTGACPCLPNVTGLACDRCADGYWNLVPGRGCQSC  
DCDPRTSQSSHCDQLTGQCPC KLYGGKRCSECQENY YGPPGRCIPDCN RAGTQKPI C  
DPDTGMCRCREGVS GQRCDRCARGHSQEFTCLQCHLCFDQWDHTISSLSKAVQGLMRLA  
ANMEDKRETL PVCEADF KDLRGNVSEIERILKHPVFPSGKFLKV KDYHDSVRRQIMQLNE  
QLKAVYEFQDLKDTIERAKNEADLLEDLQEEIDLQSSVLNASIADSS ENIKKYHISSS  
AEKKINETSSTINTS ANTRNDLLTILDTLTSKGNLSLERLKQIKIPDIQILNEKVC GDPG  
NVPCVPLPCGGALCTGRKGHRKCRGPGCHGSLTLSTNALQKAQEA KSIRNLDKQVRGLK  
NQIESISEQAEVSKNNALQREKLGNI RNQSDSEENINLFIKKVKNFLLEENVPPEDIE  
KVANGVLDIHLPIPSQNLTD ELVKIQKHMQLCEDYRTDENRLNEEADGAQKLLVKAKAAE  
KAANILLNLDKTLNLQQAQITQGRANSTITQLTANITKIKKNV LQAENQTREMKSELEL  
AKQRSGLEDGLSLLQTKLQRHQDHAVNAKVQAESAQHQA GSLEKEFVELKKQYAILQRKT  
STTGLTKETLGKVKQLKDAAEKL AGDTEAKIRRIDTLERKIQDLNLSRQAKADQLRIED  
QVVAIKNEIVEQEKKYARCYS

>sp|Q15012|LAP4A\_HUMAN Lysosomal-associated transmembrane protein 4A OS=Homo sapiens  
GN=LAPTM4A PE=1 SV=1

MVSMSEFRNRS DRFYSTRCCGCCHVRTGTIILGTWYMVVNLLMAILLTVEVTHPNSMPAV  
NIQYEVIGNYSSERMADNACVLFAVSVLMFIISMLVYGAI SYQVGWLIPFFCYRLFDF  
VLSCLVAISSLT YLPRIKEYLDQLPDFPYKDDLALDSSCLLFIVLVFFALFIIFKAYLI  
NCVWNCYKYINN RVPEIAVYPAFEAPPQYVLPTYEMAVKMPEKEPPPPYLP A

>sp|Q659C4|LAR1B\_HUMAN La-related protein 1B OS=Homo sapiens GN=LARP1B PE=1 SV=2

MENWPTPSELVNTGFQSVLSQGNKKPQNRKEKEEKVEKRSNSDSKENRETKLNGPENVS  
EDEAQSSNQKRANKHKWVPLHLDVVRSESQERPGSRNSSRCQEANKPTHNNRRNDTRS

WKRDRDKRDDQDDVSSVRSEGGNIRGSFRGRGRGRGRGRGNPRLNFDYSYGYQEHG  
ERTDQPFQTELNSTMMYYYDDGTGVQVYPVEEALLKEYIKRQIEYYFSVENLERDFFLRG  
KMDEQGFPLISLIAGFQRVQALTTNLLILEALKDSTEVEIVDEKMRKKIEPEKWIPGP  
PPRSVPPTDFSQILDCPEFVPGQAFCSHTESAPNSPRIGSPLSPKKNSETSIQAMSRGL  
STSLPDL DSEPWIEVKKRHQAPVKLRRESVSVPEGSLNQLCSSEEPEQEELDFLFDEEIE  
QIGRKNTFTDWSNDSDYEIDDQDLNKLIVTQTPPYVKKHPGGDRTGTHMSRAKITSEL  
AKVINDGLYYEQDLWMEEDENKHTAIKQEVENFKKLNLISKEQFENLTPELPFEPNQEVE  
PVAPSQSRQGGVQVGLHIPKKDLTDELAQKLFVSEITSAAMVHSLPTAVPESPRIHPTR  
TPKTPRTPRLQDPNKTFRFYVVKPKAIDVKSPPRKRKTRHSTNPPLECHVGWVMDSRDR  
GPGTSSVSTSNASPSGAPLAGSYGCTPHSFQHPKQHPHSHHELLKENGFTQQVYHKYRRRCL  
SERKRLGIGSQEMNTLFRFWSFFLRDHFNKKMYEEFRQLAWEDAKENYRYGLECLFRFY  
SYGLEKKFRREIFQDFQEETKKDYESGQLYGLEKFWAYLKYSQSKTQSIDPKLQEYLCSF  
KRLEDVRVDPPISEDFGRKRHSSTSGEESNRHRLPPNSSTKPPNAKPTSTSELQVPINS  
PRRNISPESDSSH

>sp|Q8IYD9|LAS2\_HUMAN Lung adenoma susceptibility protein 2 OS=Homo sapiens GN=LAS2 PE=1 SV=1

MAKSKTKHRLCSQESSVSALLASCTLSGSNSSNSDGSFHYKDKLYRSASQALQAYIDDFD  
LGQIYPGASTGKINIDEDFTNMSQFCNYIYKPNAFENLDHKKHSNFI SCRRHTVNDIDS  
MSLTDDLLRLPADGSFSYTYVGPSHRTSKKNKKCRGLGSLDIEKNPHFQGPYTSMGKD  
NFVTPVIRSNINGKQCGDKIELLILKAKRNLEQCTEELPKSMKKDDSPCSLDKLEADRSW  
ENIPVTFKSPVPVNSDDSPQQTSAKSAKGVLEDFLNNDNQSCTLSGGKHHGPVEALKQM  
LFNLQAVQERFNQNKTTDPKEEIKQVSEDDFSKLQLKESMIPITRSLQKALHHL SRLRDL  
VDDTNGERSPKM

>sp|Q14847|LASP1\_HUMAN LIM and SH3 domain protein 1 OS=Homo sapiens GN=LASP1 PE=1 SV=2

MNPNCARCGKIVYPTKVNCLDKFVHKACFHCETCKMTLNMKNYKGYEKKPYCNAHYPKQ  
SFTMVADTPENLRKQQSELQSQVRYKEEFKNGKGFVSVADTPELQRIKKTQDQISNI  
KYHEEFKSRMGPSGGEGMEPERRDSQDGSSYRRPLEQQQPHHIPTSAPVYQQPQQQPVA  
QSYGGYKEPAAPVSIQRSAPGGGGKRYRAVYDYSAADEDEVSFQDGDITVNVQQIDDGWM  
YGTVERTGDTGMLPANYVEAI

>sp|O60256|KPRB\_HUMAN Phosphoribosyl pyrophosphate synthase-associated protein 2 OS=Homo sapiens GN=PRPSAP2 PE=1 SV=1

MFCVTPPELETKMNITKGLVLFSANSNSSCMELSKKIAERLGVEMGKVQVYQEPNRETR  
VQIQESVRGKDVFI IQTVSKDVNTTIMELLIMVYACKTSCAKSIIGVIPYFPYSKQCKMR  
KRGSI VSKLLASMMCKAGLTHLITMDLHQKEIQGFFNIPVDNLRASPFLQYIQEEIPDY  
RNAIVIVAKSPASAKRAQSFAERLRLGIAVIHGEAQDAESDLVDGRHSPPMVRSVA AIHPS  
LEIPMLIPKEKPPITVVGDVGGRIAIIVDDIIDDVDSFLAAAETLKERGAYKIFVMATHG  
LLSSDAPRRIEESAIDEVVVTNTIPHEVQKLQCPKIKTVDISMILSEAIRRIHNGESMSY  
LFRNIGLDD

>sp|P60410|KR108\_HUMAN Keratin-associated protein 10-8 OS=Homo sapiens GN=KRTAP10-8 PE=1 SV=2

MADACCTRTYVIAASTMSVCSSDVGHVSRVSSPSTCTGSSWQVDNCQESCEPRSCASSC  
CTPSCCAPAPCLALVCAVPSCEPSPCQSGCTDSCTPSCCQSSCQPACCTSSPCQQACCV  
PVCKSNCKPVCCVSI CS GASSPCCQSSCQSACCTFSPCQQACCVICCKPICCV PVC  
SGASSLCCQKSSCQPACCTTSCRPSSSVSLCRPVCRPACCVVPVSCCVPASSCQPSCC

HPASCLSFLCRPACSRAC

>sp|P60328|KR123\_HUMAN Keratin-associated protein 12-3 OS=Homo sapiens GN=KRTAP12-3 PE=1 SV=2

MCHTSCSPACQPTCCIHSPCQASCYVPVSCQSSVCMPVSCTRIVCVAPSCQPSVCVPVSC  
RPIIYVTPSCQSSGCCQPPCTTALCRPISCSTPSCC

>sp|P60329|KR124\_HUMAN Keratin-associated protein 12-4 OS=Homo sapiens GN=KRTAP12-4 PE=1 SV=1

MCHTSHSSGCPMACPGSPCCVPSTCYPPEGYGTSCCCSAPCVALLCRPLCGVSTCCQPAC  
CVSPSCQVACCVPVSCPKVLCVASFCPTSGCCQPFCTLVYRPVPTWSTPTGC

>sp|Q3SY46|KR133\_HUMAN Keratin-associated protein 13-3 OS=Homo sapiens GN=KRTAP13-3 PE=1 SV=1

MSYNCCSRNFSSCSHGGLHYPGSSCGSSYPNLVYSTDLCSPTCQLGSSLYRGCQETC  
WRPNSCQTLCESSPCHTSCYYPRTTMLCNSCLTMHVGSRGFGSNSCCSLSCGSRSCSSL  
GCGSNGFRYLNRIHTSPSQSYRSRFPCHPIYFPPRRWFHSSCYQPFCSRSGFY

>sp|Q9BYP8|KR171\_HUMAN Keratin-associated protein 17-1 OS=Homo sapiens GN=KRTAP17-1 PE=3 SV=1

MGCCPGDCFTCTCTQEQNCCEEECCQPGCCGCCGCCGCGGSGCGGSGCGGSGCCGSSCCGS  
GCGGCGGCGGCGGCGGCGGSSCCGSSCCGSGCCGPVCCQPTPICDTK

>sp|Q3LHN2|KR192\_HUMAN Keratin-associated protein 19-2 OS=Homo sapiens GN=KRTAP19-2 PE=3 SV=1

MCYGYGCGCGSFCRLGYGCGYEGCRYGCGHRGCGDGGCCPSCYRRYRFTGFY

>sp|A8MX34|KR291\_HUMAN Keratin-associated protein 29-1 OS=Homo sapiens GN=KRTAP29-1 PE=3 SV=1

MADGCCPGNTTAIPAVPTITTYPVKGGFRHALCLPSSCHSRMWQLVTCQESCQPSIGAPS  
GCDPASCQPTRLPATSCVGFVCQPMCSHAACYQSGTGQSPCLVSSCQPSCESTCCQEK  
CDASPCQQSSCQESVCMSCQAACGQSVCCDAGSCQPSCEVTSCPETSCLPCTICTASP  
CQPTWCQSSCQPVSGEGQPKSTYYQPICYIFKPCQSALYMPVPCQPTCVFSSCNTTC  
CVPSHCQPPHCQLVPSTCFIYQPVANCQAPCSTKNCKPASCDTVISGQPTCDGPPSYNQ  
SGKKSACCVTGLTSPSSGSNCLPTSCQPSCESSFCKATLC

>sp|Q9BQ66|KR412\_HUMAN Keratin-associated protein 4-12 OS=Homo sapiens GN=KRTAP4-12 PE=1 SV=1

MVNCCGSGVSDQGCLENCCRPSCCQTTCCRTTCCRPSCCVSSCCRPQCCQSVCCQPTC  
CRPSCCQTTCCRTTCCRPSCCVSSCCRPQCCQSVCCQPTCCRPSCCQTTCCRTTCCRPSC  
CVSSCCRPQCCQSVCCQPTCCRPSCCISSSCCPSCCESSCCRPCCCLRPVCGRVSCHTTC  
YRPTCVISTCPRPLCCASSC

>sp|Q6L8G4|KR511\_HUMAN Keratin-associated protein 5-11 OS=Homo sapiens GN=KRTAP5-11 PE=2 SV=1

MGCCGSGGCGSGGCGSGGCGSGGCGSSCCVPICCKPVCCCVAPCSCSSCGSC  
GGSKGGCGSGSSKGGCGSGCSQSNCKPCCSSSGCGSFCCQSSCSKPCCCQSSCCQSS  
CCKPCCQSSCCQSSCFKPCCCQSSCCVPVCCQCKI

>sp|A6NCN2|KR87P\_HUMAN Putative keratin-87 protein OS=Homo sapiens GN=KRT87P PE=5 SV=4

MEANSGRASELNVHVEVLEGYKKKYEEVALRATAENEFVALKKDVCAYLRKSDLEAN  
VEALTQEIDFLRLRYEEIRVLQSHISDTSVVVKMDNSRDLNMHCVITEIKAQYDDIATR  
SRAEAESWYRSKCEEMKATVIRHGETLRRTKEEINELNRMIQRLTAEEVENAKCQNSKLEA

AVAQSEQQGEAALSDARCKLAELEGALQKAKQDMACLIREYQEVMSKLAWTLRSPPTGA  
CWRARSRGCVRALVL

>sp|Q9BYT5|KRA22\_HUMAN Keratin-associated protein 2-2 OS=Homo sapiens GN=KRTAP2-2 PE=2  
SV=3

MTGSCCGSTFSSLSYGGGCCQPCCCRDPCCCRPVTCQTTVCRPVTCVPRCTRPICEPCRR  
PVCCDPCSLQEGCCRPITCCPSSCTAVVCRPCCWATTCCQPVSVQSPCGQPTPCSTTCRT  
SSC

>sp|Q6L8H2|KRA53\_HUMAN Keratin-associated protein 5-3 OS=Homo sapiens GN=KRTAP5-3 PE=2  
SV=1

MGCSGCSGGCGSSCGGCGSSCGGSGYGGCGSGCCVPVCCCKPVCCCVACSCSSCGSC  
GGSKGVCSCGGCKGGCGSCGSGKGGCGSSCCVPVCCSSSCGSCGSGKGVCGFRGGSKGG  
CGSCGCSQCSCYKPCCCSSGCGSSCCQSSCCKPSCSQSSCCKPCCSQSSCCKPCCSSGC  
GSSCCQSSCCKPCCSQSSCCKPCCSSGCGSSCCQSSCCKPCSSQSSCCVPICQCKI

>sp|Q6L8H1|KRA54\_HUMAN Keratin-associated protein 5-4 OS=Homo sapiens GN=KRTAP5-4 PE=2  
SV=1

MGCCGCSGGCGSGCGGCGSGCGGCGSGCGGCGSGCGGCGSSCCVPICCCKPVC  
CCVPACSCSSCGSCGGSKGGYGSCGSGKGGCVSCGSGKGGCGSCGSGKGGCGSCGSGKGG  
CGSCGSGKGGCVSCGSGKGGCGSCGSGKGGCVSCGSGKGGCGSCGSGKGGCGSCGSGKGG  
CGSCGSGKGGCGSCGSCQSCCKPCCSSGCGSSCCQSSCCKPCCSSGCGSSCCQSSCC  
KPYCCQSSCCKPCCSSGCGSSCCQSSCCNPCCSQSSCCVPVCCQCKI

>sp|Q6L8G8|KRA57\_HUMAN Keratin-associated protein 5-7 OS=Homo sapiens GN=KRTAP5-7 PE=2  
SV=1

MGCCGCSEGCSCGCGGCGSGCGGCGSGCGGCGSSCCVPVCCCKPVCCCVACSCSSCGSC  
GGSKGGCGSCGSGKGGCGSCGSGKGGCGSCGSCQSCYKPCCCSSGCGSSCCQSSCCKP  
CCQSSCCKPCCSSGCGSSCCQSSCCNPCCSQSSCCVPVCCQCKI

>sp|Q3LI64|KRA61\_HUMAN Keratin-associated protein 6-1 OS=Homo sapiens GN=KRTAP6-1 PE=3  
SV=1

MCGSYYGNYGTPGYGFCGYGGLGYGYGGLGCGYGSCCGCFRRLGCGYGYGSRSLCGYG  
YCGSGSGYYY

>sp|Q3LI66|KRA62\_HUMAN Keratin-associated protein 6-2 OS=Homo sapiens GN=KRTAP6-2 PE=3  
SV=1

MCGSYYGNYGDHGYGCCGYEGLGYGYGSLRCGYSSCCGYGHGYGSRFFCGCGYCGSGY  
YY

>sp|Q8IUC2|KRA81\_HUMAN Keratin-associated protein 8-1 OS=Homo sapiens GN=KRTAP8-1 PE=1  
SV=1

MLCDNFPGAVFPGCYWGSYGYPLGYSVGCGYSTYSPVGYGFGYGYNGCGAFGYRRYSPF  
ALY

>sp|Q9BYQ3|KRA93\_HUMAN Keratin-associated protein 9-3 OS=Homo sapiens GN=KRTAP9-3 PE=1  
SV=1

MTHCCSPCCQPTCCRTTCWQPTTVTTCSTPCCQPSCCVSSCCQPCCHPTCCQNTCCRTT  
CCQPICVTSCCQPSCCSTPCCQPTCCGSSCGQSSSCAPVYCRRTCYPHPTSVCLPGCLNQS  
CGSNCCQPCCRPACCETTCCRTTCFQPTCVYSCCQPSCC

>sp|Q9BYQ2|KRA94\_HUMAN Keratin-associated protein 9-4 OS=Homo sapiens GN=KRTAP9-4 PE=1  
SV=2

MTHCCSPCCQPTCCRTTCRTTCWKPTTVTTCSSSTPCCQPSCCVSSCCQPCCRPTCCQNT  
CCQPTCVTSCCQPSCCSTPCCQPTCCGSSCDQSSSCAPVYCRRTCYYPTTVCLPGCLNQS  
CGSNCCQPCCRPACCETTCFQPTCVSSCCQPFCC

>sp|A8MTY7|KRA97\_HUMAN Keratin-associated protein 9-7 OS=Homo sapiens GN=KRTAP9-7 PE=3  
SV=1

MTHCCSPCCQPTCCRTTCWKPTTVTTCSSSTPCCQPSCCVSSCCQPCCCHPTCCQNTCCRTT  
CCQPTCVTSCCQPSCCSTPCCQPICCGSSCCGQTSCGSSCCQPSSCAPIYCRRTCYHPTS  
VYLPGLNQS CGSSCCQPCCRPACCETTCRTTCFQPTCVTSCCQPACC

>sp|Q9BYP9|KRA99\_HUMAN Keratin-associated protein 9-9 OS=Homo sapiens GN=KRTAP9-9 PE=2  
SV=1

MTHCCSPCCQPTCCRTTCRTTCWKPTTVTTCSSSTPCCQPSCCVSSCCQPCCRPACCQNT  
CCRTTCQPTCLSSCCGQTSCGSSCGQSSSCAPVYCRRTCYYPTTVCLPGCLNQS CGSSC  
CQPCCRPACCETTCRTTCFQPTCVSSCCQPSCC

>sp|Q6ZNG9|KRBA2\_HUMAN KRAB-A domain-containing protein 2 OS=Homo sapiens GN=KRBA2 PE=1  
SV=1

MPSFLVPSLVSSPVLLKLLFSPGPKTIWSLWQQPMLFQEATAFENMTKDWNYLEGSQKDC  
YRDTMLDSYENTVPQGSFLQLSMMPQRAGNDPPGVSNASEMEMEISNMREKFLMSVTKLV  
ESKSYNSKVFSKEKYFQTIKEVKEAKEKGKKSSRDYRRAAKYDVISVQGTEKLEATHGE  
RDRIRYVHKEELFDILHDTHLSIGHGGRTRMLKELQGKYGNVTKEVIVLYLTLCKQCHQ  
KNPVPKRGLAPKPMTFKDIDSTCQVEILDMQSSADGEFKFILYYQDHSTKFIILRPLRTK  
QAHEVSVLLDIFTILGTPSVLDSDSGVEFTNQVVHELNELWPDLKIVSGKYHPGQSQGS  
LEGASRDVKNMISTWMQSNHSCHWAKGLRFMQMVRNQAFDVSLQQSPFEAMFGYKAKFGL  
YSSNLPRETVATLQTEEELEIAEEQLENSLWIRQEERAEIGADRSDMDDMDPTPEASEP  
STSQGTSGLLCW

>sp|C9JBD0|KRBOX1\_HUMAN KRAB domain-containing protein 1 OS=Homo sapiens GN=KRBOX1 PE=2  
SV=1

MMTAVSLTTRPQESVAFEDVAVYFTTKEWAIMVPAERALYRDVMLENYEAVAFVVPPTSK  
PALVSHLEQGKESCFTQPQGVLSRNDWRAGWIGYLELRRYTYLAKAVLRRIVSKIIFRNRQ  
CWEDRRKA

>sp|Q107X0|KRIP1\_HUMAN Putative protein KRIP1 OS=Homo sapiens GN=KLKP1 PE=5 SV=1

MSPVHRSTSQTQEAHKPTSTLSFISPPQPPRQDPKSPHILCSQPNACSRQSHVSYPNPW  
GLPCSQSKVSPPGTATPNPKESRISGPPVSLDPQPWSSAPFKPTAQLPLLAQSLGPPA  
KPALPDALPLQML

>sp|076015|KRT38\_HUMAN Keratin, type I cuticular Ha8 OS=Homo sapiens GN=KRT38 PE=1 SV=3

MTSSYSSSSCPLGCTMAPGARNVSVSPIDIGCQPGAEANIAPMCLLANVAHANRVRVGST  
PLGRPSLCLPPTCHTACPLPGTCHIPGNIGICGAYGENTLNGHEKETMQFLNDRLANYLE  
KVRQLEQENAELEATLLERSKCHESTVCPDYQSYFHTIEELQQKILCSKAENARLIVQID  
NAKLAADDRIKLESERSLRQLVEADKCGTQKLLDDATLAKADLEAQQESLKEEQLSLKS  
NHEQEVKILRSQGLRIELDIEPTIDLNRVLGEMRAQYEAMLETNRQDVEQWFQAQSE  
GISLQDMSCSEELQCCQSEILELRCTVNALEVERQAQHTLKDCLQNSLCEAEDRFGTELA  
QMQSLISNVEEQLSEIRADLERQNQEYQVLLDVKTRLENEIATYRNLLESEDCKLPCNPC  
STSPSCVTAPCAPRPSGCPCTTCGPTCGASTTGSRF

>sp|Q14533|KRT81\_HUMAN Keratin, type II cuticular Hb1 OS=Homo sapiens GN=KRT81 PE=1 SV=3

MTCGSGFGGRAFSCISACGPRPGRCCITAAPYRGISCYRGLTGFGSHSVCGGFRAGSCG

RSFGYRSGGVCGPSPPCITTVSVNESLLTPLNLEIDPNAQCVKQEEKEQIKSLNSRFAAF  
IDKVRFLEQQNKLETKLQFYQNRECCQSNLEPLFEGYIETLRREAECVEADSGRLASEL  
NHVQEVLEGYKKKYEEVSLRATAENEFVALKKDVDCAYLRKSDLEANVEALIQEIDFLR  
RLYEEEILILQSHISDTSVVVKLDNSRDLNMDCIIEIKAQYDDIVTRSRAEASWYRSK  
CEEMKATVIRHGETLRRTKEEINELNRMIRLTAEVENAKCQNSKLEAAVAQSEQQGEAA  
LSDARCKLALEGALQKAKQDMACLIREYQEVMSKLGLDIEIATYRRLLEGEEQRLCEG  
IGAVNVCVSSSRGGVCGDLVSGSRPVTGVSVCAPCNGNAVSTGLCAPCGQLNTTCGG  
GSCGVGSCGISSLGVGSCGSSCRKC

>sp|P78386|KRT85\_HUMAN Keratin, type II cuticular Hb5 OS=Homo sapiens GN=KRT85 PE=1 SV=1  
MSCRSYRISSGCGVTRNFSSCSAVAPKTGNRCCISAAPYRGVSCYRGLTGFGSRSLCNLG  
SCGPRIAVGGFRAGSCGRSFGYRSGGVCGPSPPCITTVSVNESLLTPLNLEIDPNAQCVK  
QEEKEQIKSLNSRFAAFIDKVRFLEQQNKLETKWQFYQNRCCESNLEPLFSGYIETLR  
REAECVEADSGRLASELNHVQEVLEGYKKKYEEVALRATAENEFVVLKKDVDCAYLRKS  
DLEANVEALVEESSFLRLYEEEIRVLQAHISDTSVIVKMDNSRDLNMDCIIEIKAQYD  
DVASRSRAEASWYRSKCEEMKATVIRHGETLRRTKEEINELNRMIRLTAEIENAKQR  
AKLEAAVAEAEQQGEAALSARCKLALEGALQKAKQDMACLLKEYQEVMSKLGLDIEI  
ATYRRLLEGEEHRLCEGVGSVNVVSVSSSRGGVSCGGLSYSTTPGRQITSGPSAIGGSITV  
VAPDSCAPCQPRSSSFSCGSSRSVRFA

>sp|P23443|KS6B1\_HUMAN Ribosomal protein S6 kinase beta-1 OS=Homo sapiens GN=RPS6KB1 PE=1  
SV=2

MRRRRRRDGFYPAPDFRDREAEDMAGVFDIDLDPEDAGSEDELEEGGQLNESMDHGGVG  
PYELGMEHCEKFEISETSVNRGPEKIRPECFELLRVLGKGGYGKVFQVRKVTGANTGKIF  
AMKVLKAMIVRNAKDTAHTKAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGEL  
FMQLEREGIFMEDTACFYLAEISMLGHLHQKGIYRDLKPENIMLNHGHVKLTDGLC  
KESIHDGTVTHTFCGTIEYMAPEILMRSGHNRAVDWWSLGALMYDMLTGAPPFTGENRKK  
TIDKILKCKLNLPPYLTQEARDLLKLLKRNAASRLGAGPGDAGEVQAHPFFRHINWHEEL  
LARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSPDDSTLSEANQVFLGFTYVAPSVLE  
SVKEKFSFEPKIRSPRRFIGSPRPVSPVKFSPGDFWGRGASASTANQTPVEYPMETSG  
IEQMDVTMSGEASAPLPIRQPNSGPYKKQAFPMISKRPEHLRML

>sp|Q86SY8|KTAS1\_HUMAN Putative uncharacterized protein KTN1-AS1 OS=Homo sapiens GN=KTN1-  
AS1 PE=5 SV=2

MEAAGGFQVHFHPSNGDGRFIETSSAADLEVISYSSKVSVTERCFIKVCTVLF

>sp|P01602|KV105\_HUMAN Immunoglobulin kappa variable 1-5 OS=Homo sapiens GN=IGKV1-5 PE=1  
SV=2

MDMRVPAQLLGLLLLWLPQAKCDIQMTQSPSTLSASVGDRVTITCRASQSISSWLAWYQQ  
KPGKAPKLLIYKASSLESGVPSRFSGSGSGTEFTLTISLQPDFFATYYCQQYNSYS

>sp|P06310|KV230\_HUMAN Immunoglobulin kappa variable 2-30 OS=Homo sapiens GN=IGKV2-30  
PE=3 SV=2

MRLPAQLLGLLMLWVPQSSGDVMTQSPLSLPVTLGQPASISCRSSQSLVYSDGNTYLNW  
FQQRPGQSPRRLIYKVSNRDSGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQGHWP

>sp|P01601|KVD16\_HUMAN Immunoglobulin kappa variable 1D-16 (Fragment) OS=Homo sapiens  
GN=IGKV1D-16 PE=3 SV=2

MDMRVLAQLLGLLLLCPFGARCDIQMTQSPSSLASVGDRVTITCRASQGISSWLAWYQQ  
KPEKAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQYNSYP



>sp|P01593|KVD33\_HUMAN Immunoglobulin kappa variable 1D-33 OS=Homo sapiens GN=IGKV1D-33  
PE=1 SV=2

MDMRVPAQLLGLLLWLSGARCDIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQQ  
KPGKAPKLLIYDASNLETGVPSRFSGSGSGTDFTFTISSLQPEDATYYCQYDNLP

>sp|Q53H82|LACB2\_HUMAN Endoribonuclease LACTB2 OS=Homo sapiens GN=LACTB2 PE=1 SV=2

MAAVLQRVERLSNRVVRVLGCNPGPMTLQGTNTYLVGTGPRRILIDTGEPAIPEYISCLK  
QALTEFNIAIQTIVVTHWRDHSGGIGDICKSINNDTTYCIKKLPRNPQREEIIGNGEQQ  
YVYLKGDGVIKTEGATLRVLYTPGHTDDHMLLEEENAIIFSGDCILGEGTTVFEDLYDY  
MNSLKELLKIKADIIYPGHGPVIHNAEAKIQYISHRNIREQQILTLFRENFEKSFTVME  
LVKIIYKNTPENLHEMAKHNLHLHLKLEKEGKIFSNTDPDKKWAHL

>sp|Q9GZZ8|LACRT\_HUMAN Extracellular glycoprotein lacritin OS=Homo sapiens GN=LACRT PE=1  
SV=1

MKFTTLLFLAAVAGALVYAEDASSDSTGADPAQEAGTSKPNEEISGPAEPASPPETTTTA  
QETSAAAVQGTAKVTSSRQELNPLKSIVEKSILLTEQALAKAGKGMHGGVPGGKQFIENG  
SEFAQKLLKKFSLLKPWA

>sp|Q6ISS4|LAIR2\_HUMAN Leukocyte-associated immunoglobulin-like receptor 2 OS=Homo  
sapiens GN=LAIR2 PE=1 SV=1

MSPHLTALLGLVLCLAQTIHTQEGALPRPSISAEPGTVISPGSHVTFMCRGPVGVQTFRL  
EREDRAKYKDSYNVFRLLGPSESEARFHIDSVSEGNAGLYRCLYYKPPGWSEHSDFLELLV  
KESSGGPDSPDTEPGSSAGTVPGTEASGFDAP

>sp|P00709|LALBA\_HUMAN Alpha-lactalbumin OS=Homo sapiens GN=LALBA PE=1 SV=1

MRFFVPLFLVGILFPAILAKQFTKCELSQLKIDIDGYGGIALPELICTMFHTSGYDTQAI  
VENNESTEYGLFQISNKLWCKSSQVPQSRNICDISCDKFLDDITDDIMCAKKILDIKI  
DYWLAHKALCTEKLQWLCEKL

>sp|O15230|LAMA5\_HUMAN Laminin subunit alpha-5 OS=Homo sapiens GN=LAMA5 PE=1 SV=8

MAKRLCAGSALCVRGPRGPAPLLLVLGLALLGAARAREEAGGGFSLHPPYFNLAEGARIAA  
SATCGEEAPARGSPRPTEDLCKLVGGPVAGGDPNQTIRGQYCDICTAANSNKAHPASNA  
IDGTERWWQSPPLSRGLEYNVNTLDLGQVFHVAVVLKIFANSRPDLWVLRSMDFGR  
TYQPWQFFASSKRDCLERFQPQLERITRDAAICTTEYSRIVPLENGEIVVSLVNGRPG  
AMNFSYSPLLREFTKATNVRLRFLRTNTLLGHLMGKALRDPTVTRRRYYSIKDISIGGRC  
VCHGHADACDAKDPTDPFRLQCTCQHNTCGGTCDRCCPGFNQWPATANSANECQSCN  
CYGHATDCYYDPEVDRRRASQSLDGTYYGGGVCIDCQHHTGVNCERCLPGFYRSPNHL  
DSPHVCRRNCESDFTDGTCEDLTGRCYCRPNFSGERCDCVCAEGFTGFPSCYPTPSSND  
TREQVLPAQGIIVNCDCSAAGTQGNACRKDPRVGRCLCKPNFQGTCELCAFGFYGPGCQP  
CQCSSPGVADDRCDPTGQCRCRVGFEGATCDRCAPGYFHFPLCQLCGCSPAGTLPEGCD  
EAGRCLCQPEFAGPHCDRCRPGYHGFNQCQACTCDPRGALDQLCGAGGLCRCRPGYTGT  
CQECSPGFHGFPCVCHCSAEGSLHAACDPRSGQCSCRPRVTGLRCDTCVPGAYNFPYC  
EAGSCHPAGLAPVDPALPEAQVPCMCRAHVEGPSDCRCKPGFWGLSPSNPEGCTRCSDL  
RGTLLGVAECQPGTGQCFCKPHVCGQACASCKDGFGLDQADYFGCRSCRCDIGGALGQS  
CEPRTGVCRCRPNTQGPTCSEPARDHYLPDLHHLRLEEEAATPEGHAVRFGFNPLEFEN  
FSWRGYAQMAPVQPRIVARLNLTSPLDFWL VFRYVNRGAMSVSGRVSVREEGRSATCANC  
TAQSQPVAFPPSTEPAFITVPQRGFGEFVLNPGTWALRVEAEGVLLDYVLLPSAYYEA  
ALLQLRVTEACTYRPSAQSGDNCLLYTHLPLDGFPSAAGLEALCRQDNSLPRPCPTEQL  
SPSHPLITCTGSDVDVQLQVAVPQPGRYALVVEYANEDARQEVGVAVHTPQRAPQQGLL

SLHPCLYSTLCRGRTARDTQDHLAVFHLDEASVRLTAEQARFFLHGVTLPVIEEFSPEFV  
EPRVSCISSHGAFGPNSAACLPSPRFPKPPQPIILRDCQVIPLPPGLPLTHAQDLTPAMSP  
AGPRPRPPTAVDPDAEPTLLREPQATVVFTTHVPTLGRYAFLHGYQPAHPTFPVEVLIN  
AGRVWQGHANASFCPHGYGCRTLTVCEGQALLDVTHSELTVTVRVPKGRWLWLDYVLVVP  
ENVYSFGYLREEPLDKSYDFISHCAAQGYHISPSSSSLFCRNAAASLSLFYNNGARPCGC  
HEVGATGPTCEPFGGQCPCHAHVIGRDCSRCATGYWGFNCRPCDCGARLCDELTGQCIC  
PPRTIPDCLLCQPQTFGCHPLVGCEECNCSGPGIQELTDPTCDTDSGQCKCRPNVTGRR  
CDTCSPGFHGYPRCRPCDCHEAGTAPGVCDPLTGQCYCKENVQGPCKDQCSLGTFSLDAA  
NPKGCTRCFCFGATERCRSSSYTRQEFVDMEGWVLLSTDRQVVPHERQPGTEMLRADLRH  
VPEAVPEAFPELYWQAPPSYLGDRVSSYGGTLRYELHSETQRGDVFPVPMESRPDVVLQGN  
QMSITFLEPAYPTPGHVHRGQLQLVEGNFRHTETRNTVSREELMMVLASLEQLQIRALFS  
QISSAVFLRRVALEVASPAGQGALASNVELCLCPASYRGDSCQECAPGFYRDVKGLFLGR  
CVPCQCHGHSDRCLPGSGVCVDCQHNTGAHCERCQAGFVSSRDDPSAPCVSCPCPLSVP  
SNNFAEGCVLRGGRTQCLCKPGYAGASCERCAPGFFGNPLVLGSSCQPCDCSGNGDPNLL  
FSDCDPLTGACRGCLRHTTGPRCEICAPGFYGNALLPGNCTRCDCPCGTEACDPHSGHC  
LCKAGVTGRRCDRCQEGHFGFDGCGGCRPCACGPAAEGSECHPQSGQCHCRPGTMGPQCR  
ECAPGYWGLPEQGCRRCQCPGGRCDPHTGRCNCPPGLSGERCDCSQHQVVPVPGGPVGH  
SIHCEVCDHCVVLLDDLERAGALLPAIHEQLRGINASSMAWARLHRLNASIADLQSQLR  
SPLGPRHETAQQLEVLEQQSTSLGQDARRLGGQAVGTRDQASQLLAGTEATLGHAKTLA  
AIRAVDRTLSEMSQTGHLGLANASAPSGEQLLRTLAEVERLLWEMRARDLGAPAAAAEA  
ELAAAQRLARVQEQLSSLWEENQALATQTRDRLAQHEAGLMDLREALNRAVDATREAQE  
LNSRNQERLEEALQRKQELSRDNATLQATLHAARDTLASVFRLLHSLDQAKEELERLAAS  
LDGARTPLLQRMQTFSPAGSKRLRVEAAEAHAQQLGQLALNLSSIILDVNQDRLTQRAIE  
ASNAYSRLQAVQAAEDAAGQALQQADHTWATVVRQGLVDRAQQLLANSTALEEAMLQEQ  
QRLGLVWAALQGARTQLRDVRAKKDQLEAHIQAAQAMLAMDTDETSKKIAHAKAVAAEAQ  
DTATRVQSQLQAMQENVERWQGYEGLRGQDLGQAVLDAGHSVSTLEKTLPLAKLSIL  
ENRGVHNASLALSASIGRVRELIAQARGAASKVKVPMKFNGRSGVQLRTPRDLADLAAYT  
ALKFYLGQPEPEPGGTEDRFVYMYGSRQATGDYMGVSLRDKKVHWVYQLGEAGPAVLSI  
DEDIGEQAFAVSLDRTLQFGHMSVTVRQMIQETKGDVAPGAEGLLNLRPDDFVFYVGG  
YPSTFTPPPLLRFPGYRGCIEMDTLNEEVVSLYNFERTFQLDTAVDRPCARSKSTGDPWL  
TDGSYLDGTGFARISFDSQISTTKRFEQELRLVSYSGVLFFLKQQSQFLCLAVQEGSLVL  
LYDFGAGLKKAVPLQPPPPLTSASKAIQVFLGGSRKRVLRVERATVYSVEQDNDLELA  
DAYYLGVPDPQLPPSLRRLFPTGGSVRGCVKGIKALGKYVDLKRLNTTGVSACTADLL  
VGRAMTFHGHGFLRLALSNVAPLTGNVYSGFGFHSQAQDSALLYRASPDGLCQVSLQQGR  
VSLQLLRTEVKTAQGFADGAPHYVAFYSNATGVWLYVDDQLQQMKPHRGPPPELQPQPEG  
PPRLLGLPESGTIYNFSGCISNVFVQRLGQRFVFDLQQNLGSVNVSTGCAPALQAQT  
PGLGPRGLQATARKASRRSRQPARHPACMLPPHLRTTRDSYFGGSLSSHLEFVGLARH  
RNWPSLSMHVLRSSRGLLLFTARLRPGSPSLALFLSNGHFVAQMEGLGTRLRAQSRQRS  
RPGRWHKVSVRWEKNRILLVTDGARAWSQEGPHRQHQAHPQHTLFGGLPASSHSSK  
LPVTVGFSGCVKRLRLHGRPLGAPTRMAGVTPCILGPLEAGLFFPGSGGVITLDLPGATL  
PDVGLELEVRPLAVTGLIFHLGQARTPPYLQLQVTEKQVLLRADDGAGEFSTSVTRPSVL  
CDGQWHRLAVMKSGNVLRLEVDAQSNHTVGPLAAAAGAPAPLYLGGLEPEMAVQPWPPA  
YCGCMRRLAVNRSPVAMTRSVVEVHGAVGASGCPAA

>sp|Q9UQV4|LAMP3\_HUMAN Lysosome-associated membrane glycoprotein 3 OS=Homo sapiens  
GN=LAMP3 PE=1 SV=3

MPRQLSAAAALFASLAVILHDGSQMRKAFPETRDYSQPTAAATVQDIKKPVQQPAKQAP  
HQTLAARFMDGHITFQTAATVKIPTTTTPATTKNTATTSPITYTLVTTQATPNNSTAPPV  
TEVTVGPSLAPYSLPPTITPPAHTTGTSSSTVSHTTGNTTQPSNQTTLPATLSIALHKST  
TGQKPVQPTHAPGTAAAHNTTRTAAPASTVPGPTLAPQPSSVKTGIYQVLNGSRLCIKA  
EMGIQLIVQDKESVFSPPRYFNIDPNATQASGNCGTRKSNLLNFQGGFVNLTFKDEES  
YYISEVGAYLTVSDPETIYQG IKHAVVMFQTAVGHSFKCVSEQSLQLSAHLQVKTTDVQL  
QAFDFEDDHFNGVDECSSDYTIVLPVIGAIVVGLCLMGMGVYKIRLRCQSSGYQRI

>sp|075387|LAT3\_HUMAN Large neutral amino acids transporter small subunit 3 OS=Homo sapiens  
GN=SLC43A1 PE=1 SV=1

MAPTLQQAYRRRWWMACTAVLENLFFSAVLLGWGSLLIILKNEGFYSSTCPAESSTNTTQ  
DEQRRWPQCDQQDEMLNLGFTIGSFVLSATTLPLGILMDRFGPRPVRLVGSACFTASCTL  
MALASRDVEALSPLIFLALSLNGFGGICLTFTSLTLPNMFGNLRSTLMALMIGSYASSAI  
TFPGIKLIYDAGVAFVIMFTWSGLACILFNCTLNWPIEAFPAPEEVNYTKIKLSGLA  
LDHKVTGDLFYTHVTMGQRLSQKAPSLEDGSDAFMSPQDVGRGTSENLPERSVPLRKSCL  
SPTFLWSLLTMGMTQLRIIFYMAAVNMLEYLVTGGQEHETNEQQQKVAETVGFYSSVFG  
AMQLCLLTCPLIGYIMDWRIKDCVDAPTQGTVLGDARDGVATKSIRPRYCKIQKLTNAI  
SAFTLTNLLLVGFGITCLINNLHLQFVTFVLHTIVRGFFHSACGSLYAAVFP SNHFGTLT  
GLQSLISAVFALLQQPLFMAMVGPLKGEPFWVNLGLLLFSLLGFLLP SYLYFYRRLQQE  
YAANGMGPLKVLSGSEVTA

>sp|043561|LAT\_HUMAN Linker for activation of T-cells family member 1 OS=Homo sapiens  
GN=LAT PE=1 SV=1

MEEAILVPCVLGLLLLPILAMLALCVHCHRLPGSYDSTSSDSLYPRGIQFKRPHTVAPW  
PPAYPPVTSYPPLSQPDLLIPRSPQPLGGSHRTPSSRRDSDGANSVASYENEGASGIRG  
AQAGWGVWGPSWTRLTPVSLPPEPACEDADEDEDDYHNPGLVVLDPSTPATSTAAPSAP  
ALSTPGIRDSAFSMESIDYVNVPESGESAEASLDGSREYVNVSQELHPGAAKTEPAALS  
SQEAEEVEEEGAPDYENLQELN

>sp|095232|LC7L3\_HUMAN Luc7-like protein 3 OS=Homo sapiens GN=LUC7L3 PE=1 SV=2

MISAAQLLDELMGRDRNLAPDEKRSNVRWDHESVCKYYLCGFCPAELFTNTRSDLGPCEK  
IH DENLRKQYEKSSRFMKVGYERDFRLYLQSLLAEVERRIIRRGHARLALSQNNQSSGAAG  
PTGKNEEKIQVLTDKIDVLLQIEELGSEGKVEEAQMMKLVEQLKEERELLRSTTSTIE  
SFAAQEKQMEVCEVCGAFLIVGDAQSRVDDHLMGKQHMGYAKIKATVEELKEKLKRKRT  
PDRDERLKKEKQEREEREKEREREREERERKRREEREKERARDERRRKR SR SRHS  
SRTSDRRCSRSDHKRSR SR RRRSRSDRRRSRSHDRSEKHSRSDRRRSKSRDRKS  
YKHSKSRDREQDRKSKEKEKRGSDDKSSVKS GSREKQSEDNTESKESDTKNEVNGTS  
EDIKSEGDTQSN

>sp|Q6UWM7|LCTL\_HUMAN Lactase-like protein OS=Homo sapiens GN=LCTL PE=1 SV=2

MKPVWVATLLWMLLLVPRLGAARKGSPEEASFYYGTFPLGFSWGVGSAYQTEGAWDQDG  
KGPSIWDVFTHSKGKVLGNETADVACDGYKQVEDIILLRELHVNHYRFSLSWPRLPT  
GIRAEQVNKKGIEFYSDLIDALLSSNITPIVTLHHWDLPLLQVKYGGWQNVSMANYFRD  
YANLCFEAFGDRVKHWTFSDPRAAEKGYETGHHAPGLKLRGTGLYKAAHHIIKAHAKA  
WHSYNTTWRSKQQLVGISLNCDWGEPVDISNPKDLEAAERYLQFCLGW FANPIYAGDYP  
QVMKDYIGRKS AEQGLEMSRLPVFSLQEKS YIKGTSDFLGLGHFTTRYITERNYPSRQGP

SYQNDRDLIELVDPNPDLGSKWLYSVPWGFRRLLNFAQTQYGDPPITYVMENGASQKFHC  
TQLCDEWRIQYLKGYINEMLKAIKDGANIKGYTSWSLLDKFEWEKGYSDRYGFYYVEFND  
RNKPRYPKASVQYYKIIIIANGFPNPREVESWYLKALETCSINNQLAAEPLLSHMQMVT  
EIVVPTVCSLCVLITAVLLMLLLRRQS

>sp|Q86U70|LDB1\_HUMAN LIM domain-binding protein 1 OS=Homo sapiens GN=LDB1 PE=1 SV=2

MSVGCACPGCSSKSFKLYSPKEPPNGNAFPFHPGTMLDRDVGTPMYPPTYLEPGIGRH  
TPYGNQTDYRIFELNKRLQNWTEECDNLWWDATTEFFEDDAMLITFCLEDGPKRYTIG  
RTLIPRYFRSIFEGGATELYYVLKHPKEAFHSNFVSLDCDQGSMTQHGKPMFTQVCVEG  
RLYLEFMFDDMMRIKTWHFSIRQHRELIPRSILAMHAQDPQMLDQLSKNITRCGLSNSTL  
NYLRCLVILEPMQELMSRHKTYLSRPDCLKTCLFQKWQRMVAPPAEPTRQQPSKRRKRK  
MSGGSTMSSGGGNTNNSNSKKKSPASTFALSSQVPDVMVVGEP TLMGGEFGDEDERLITR  
LENTQFDAANGIDDEDSFNNSPALGANS PWNSKPPSSQESKSENPTSQASQ

>sp|075829|LECT1\_HUMAN Leukocyte cell-derived chemotaxin 1 OS=Homo sapiens GN=LECT1 PE=1 SV=1

MTENSDKVPIALVGPDDVEFCSPPAYATLTVKPSSPARLLKVGAVVLISGAVLLLFGAIG  
AFYFWKGSDSHIYNVHYTMSINGKLQDGSMEIDAGNNLETFKMGSGAEEAIAVNDFQNGI  
TGIRFAGGEKCYIKAQVKARIPEVGAVTKQSISSKLEGKIMPVKEYEENSLIWVAVDQPVK  
DNSFLSSKVLLECGDLP IFWLKPTYPKEIQRERREVVRKIVPTTTKRPHSGPRSNPGAGR  
LNNETRPSVQEDSQAFNPDPNYHQEGESMTFDPRLDHEGICCIECRRSYTHCQKICEPL  
GGYYPWPYNYQGCRSACRVIMPCSWVARILGMV

>sp|Q9UJU2|LEF1\_HUMAN Lymphoid enhancer-binding factor 1 OS=Homo sapiens GN=LEF1 PE=1 SV=1

MPQLSGGGGGGGDP ELCATDEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNE  
SEIIPASNGHEVARQAQTSQEYPYHDKAREHPDDGKHPDGGLYNKGPSYSSYSGYIMPMNM  
NNDPYMSNGSLSPPIPRTSNKVPVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNS  
KQGMSRHPPAPDIPTFYPLSPGGVGQITPPLGWQGQPVYPITGGFRQPYPSSLSVDTSMS  
RFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSDLMHVKPQHEQRKEQEPKRPHIK  
KPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHM  
QLYPGWSARDNYGKKKKRKREKLQESASGTGPRMTAAYI

>sp|Q05315|LEG10\_HUMAN Galectin-10 OS=Homo sapiens GN=CLC PE=1 SV=3

MSLLPVPYTEAASLTGSTVTIKGRPLACFLNEPYLQVDFHTEMKEESDIVFHFQVCFGR  
RVVMNSREYGAWKQQVESKNMPFQDGQEFELSISVLPDKYQVMVNGQSSYTFDHRKPEA  
VKMVQVWRDISLTKFNVSYLKR

>sp|Q6DKI2|LEG9C\_HUMAN Galectin-9C OS=Homo sapiens GN=LGALS9C PE=1 SV=2

MAFGCQAPYLSPAVPFSGTIQGGQLQDGFQITVNGAVLSCSGTRFAVDFQTGFSGNDIAF  
HFNPRFEDGGYVVCNTRQKGTWGPEERKMHPFQKGMFPDLCFLVQSSDFKVMVNGSLFV  
QYFHRVPFHRVDTISVNGSVQLSYISFQNPRAPVPQPAFSTVPFSQPVCFPFRPRGRQRK  
PPSVRPANPAPITQTVIHTVQSASGQMFSTPAIPPMYPHPAYPMPFITITPGGLYPSK  
SIILSGTVLPSAQRFHINLCSGSHIAFHMNPRFDENAVVRNTQINNSWGSEERSLPRKMP  
FVRGQSFSVWILCEAHCLKVAVDQGHVFEYYHRLRNLP TINKLEVGGDIQLTHVQT

>sp|Q9H511|KLH31\_HUMAN Kelch-like protein 31 OS=Homo sapiens GN=KLHL31 PE=2 SV=1

MAPKKKIVKKNKGDINEMTIIVEDSPLNKLNALNGLLEGNGLS CISELTDASYGNLL  
EGLSKMRQENFLCDLVIGTKTKSFDVHKSVMASCEYFYNILKKDPSIQRVLDNDISPLG  
LATVIAIAYTGKLTLSLYTIGSIIISAAVYLQIHTLVKMCSDFLI REMSVENCMYVVNIAE

TYSLKNAKAAQKFIRDNFLEFAESDQFMKLTFEQINELLIDDDLQLPSEIVAFQIAMKW  
LEFDQKRKYAADLLSNIRFGTISAQDLVNYVQSVPRMMQDADCHRLLDAMNYHLLPYH  
QNTLQSRRTIRGGCRVLVTVGGRPGLTEKSLSRDILYRDPENGWSKLTMPAKSFNQCV  
AVMDGFLYVAGGEDQNDARNQAKHAVSNFCRYDPRFNTWIHLASMNQKRTHFSLSVFNGL  
VYAAGGRNAEGSLASLECYVPSTNQWQPKTPLEVARCCHASAVADGRVLVTGGYIANAYS  
RSVCAYDPASDSWQELPNLSTPRGWHCAVTLSDRVYVMGGSQLGPRGERVDVLTVECYSP  
ATGQWSYAAPLQGVSTAGVSALHGRAYLVGGWNEGEKKYKCKICQFSPELNEWTEDEL  
PEATVGVSCCTLSPNNVTRESRASSVSSVPVSI

>sp|Q96NJ5|KLH32\_HUMAN Kelch-like protein 32 OS=Homo sapiens GN=KLHL32 PE=2 SV=2

MPSECLSIQEMLTGQRLCHSEHNSVLAALNQQRSDGILCDITLIAEEQKFHAHKAVL  
AACSDYFRAMFSLCMVESGADEVNLHGVTSLGLKQALEFAYTGQILLEPGVIQDVLAAGS  
HLQLELLNLCSHYLIQELNSFNLYDLRLADLFNLTLLEKAVIDFLVKHLSSELLKS RPE  
EVLTLPYCLLQEVLSDRLTSLSEEQIWQLAVRWLEHNCHYQYMDQLQYIRFGLMDVDT  
LHTVALSHPLVQASETATALVNEALEYHQSIIYAQPWWQTRRTKPRFQSDTLYIIGGKKRE  
VCKVKELRYFNPVDQENALIAIANWSELAPMPVGRSHHCVAVMGDFLFVAGGEVEHASG  
RTCAVRTACRYDPRSNSWAEIAPMKNCREHFVLGAMEEYLYAVGGRNELRQVLP TVERYC  
PKKNKWTFFVQSFDRSLSCHAGYVADGLLWISGGVTNTAQYQNRLMVYEPNQNKWISRSPM  
LQRRVYHSMAAVQRKLYVLGGNDLDYNNDRILVRHIDSYNIDTDQWTRCNFNLLTGQNES  
GVAVHNGRIYLVGGYSIWTNEPLACIQVLDVSREGKEEVFYGPTLPFASNGIAACFLPAP  
YFTCPNLQTLQVPHHRIGTI

>sp|Q6PF15|KLH35\_HUMAN Kelch-like protein 35 OS=Homo sapiens GN=KLHL35 PE=1 SV=3

MRQGHAPEESEPGCEAPCAGPCHAQRVLQALNAYRRSGTLTDVVL RAGGRDFPCHRAALS  
AGSAYFRSLFAAGRPERGPAVVPVVPVAPEAPGTSPAGAAAAALAVLDYVYGAGVRLRAE  
DEAAAVLALAERLGVAGLREACVRFLEGR LRAANSLALRRVAAAFSLAPLAERCGRVLRQ  
AFAEVARHADFLELAPDEVVALLADPALGVAREEAVFEAMRWVRHDAPARRGQLRR LLE  
HVRLPLLAPAYFLEKVEADELLQACGECRPLLEARACFILGREAGALRTRPRRFMDLAE  
VIVVIGGCDRKG LKLPFADAYHPESQRWTPLPSLPGYTRSEFAACALRNDVYVSGGHIN  
SHDVWMFSSHLHTWIKVASLHKGRWRHKMAVVQGGQLFAVG GFDGLRRLHSVERYDPFSNT  
WAAAAPLPEAVSSAAVASCAGKLFVIGGARQGGVNTDKVQCFDPKEDRWSLRSPAPFSQR  
CLEAVSLEDTIYVMGGLMSKIFTYDPGTDVWGEAAVLPSPVESCGVTVC DGKVHILGGRD  
DRGESTDKVFTFDPSSGQVEVQPSLQRCTSSHGCVTIIQSLGR

>sp|Q2TBA0|KLH40\_HUMAN Kelch-like protein 40 OS=Homo sapiens GN=KLHL40 PE=1 SV=2

MALGLEQAEEQRLYQQTLQDGLKDMLDHGKFLDCVVRAGEREFPCHRLVLAACSPYFRA  
RFLAEPERAGELHLEEVSPDVVAQVLHYLYTSEIALDEASVQDLFAAAHRFQIPSI FTIC  
VSFLQKRLCLSNCLAVFRLGLLDCARLAVAARDFICAHFTLVARDADFLGLSADELIAI  
ISSDGLNVEKEEAVFEAVMRWAGSGDAEAQAERQ RALPTVFESVRCRLLPRAFLES RVER  
HPLVRAQPELLRKVQMVKDAHEGRITTLRKKKKKGKGAGAKEADKGTSKAKAEDEEAER  
ILPGILNDTLRFGMFLQDLIFMISEEGAVAYDPAANECYCASLSNQVPKNHVS LVTKENQ  
VVFVAGGLFY NEDNKEDPMSAYFLQFDHLDSEWLGMPPLPSPRCLFGLGEALNSIYVVGGR  
EIKDGERCLDSVMCYDRLSFKWGESDPLPYVVGHTVLSHMDLVYVIGGKGS DRKCLNKM  
CVYDPKKFEWKELAPMQTARSLFGATVHDGRIIVAAGVTD TGLTSSAEVYSITDNKWAPF  
EAFPQERSLSLSLVGLTYAIGGFATLETESGELVPTELNDI WRYNEEEKKWEGVLREI  
AYAAGATFLPVRLNVLC LTKM

>sp|Q9UH77|KLHL3\_HUMAN Kelch-like protein 3 OS=Homo sapiens GN=KLHL3 PE=1 SV=2

MEGESVKLSSQTLIQAGDDEKNQRTITVNP AHMGKAFKVMNELRSKQLLCDVMIVAEDVE  
IEAHRVLAACSPYFCAMFTGDMSES KAKKIEIKDVDGQTLSKLIDYIYTAEIEVTEENV  
QVLLPAASLLQLMDVRQNCDFLQSQLHPTNCLGIRAFADVHTCTDLLQQANAYAEQHFP  
EVMLGEEFLSLSDQVCSLISD KLTVSSEEKVFEAVISWINEKETREHMAKLEHV  
LPLLPRDYLVTVEEALIKNNNTCKDFLIEAMKYHLLPLDQRLLIKNPRTKPRTPVSLP  
KVMIVVGGQAPKAIRSVECYDFEEDRWDQIAELPSRRCRAGVVF MAGHVVAVGGFNGSLR  
VRTVDVYDGVKDQWTSIASMQERRSTLGA AVLNDLLYAVGGFDGSTGLASVEAYS YKTNE  
WFFVAPMNTRRSSVGVVEGKLYAVGGYDGASRQCLSTVEQYNPATNEWIYVADMSTRR  
SGAGVGLSGQLYATGGHDGPLVRKSVEVYDPGTNTWKQVADMNMCR RNAGVCAVNGLLY  
VVGDDGSCNLASVEYYNPVTDKWTLPTNMSTGRSYAGVAVIHKS L

>sp|Q8IXQ5|KLHL7\_HUMAN Kelch-like protein 7 OS=Homo sapiens GN=KLHL7 PE=1 SV=2

MAASGVEKSSKKKTEKKLAAREEAKLLAGFMGMNMNRKQKTLCDVILMVQERKIPAHRV  
VLAAASHFFNLMFTTNMLESKSFEVELKDAEPDIEQLVEFAYTARISVNSNNVQSLLDA  
ANQYQIEPVKKMCDVFLKEQVDASNCLGISVLAECDCPELKATADDFIHQHFEVYKTD  
EFLQLDVKRVTHLLNQDTLTVRAEDQVYDAAVRWLKYDEPNRQPFMVDILAKVRFPLISK  
NFLSKTVQAEPLIQDNP ECLKMVISGMRYHLLSPEDREELVDGTRPRRKKHDYRIALFGG  
SQPQSCRYFNPKDYSWTDIRCPFEKRDAACVFWDNVVYILGGSQ LFP IKRMDCYNVVKD  
SWYSKLGPPTPRDSLAACAAEGKIYTSGGSEVGNSALYLFECYDTRTESWHTKPSMLTQR  
CSHGMVEANGLIYVCGGSLGNNVSGRVLNSCEVYDPATETWTELCPMIEARKNHGLVFVK  
DKIFAVGGQNGLGGLDNVEYYDIKLNWKMVSPMPWKGVTVKCAAVGSIVYVLAGFQGVG  
RLGHILEYNTETDKWVANSKVRAFPVTSCLICVVDTCGANEETLET

>sp|Q9H2R5|KLK15\_HUMAN Kallikrein-15 OS=Homo sapiens GN=KLK15 PE=1 SV=1

MWLLLTLSFLLASTAAQDGDKLLEGDECAPHSQPWQVALYERGRFNC GASLISPHWVLSA  
AHCQSRFMRVRLGEHNLKRKGPEQLRTTSRVIPHPRYEARSHRNDIMLLRLVQPARLNP  
QVRPAVLPTRCPPHGEACVVSGLVSHNEPGTAGSPRSQVSLPDTLHCANISII SDTSC  
DKSYPGRLTNTMVCAGAEGRAESCEGDSGGPLVCGGILQGIVSWGDVPCDNTTKPGVYT  
KVCHYLEWIRETMKRN

>sp|P07288|KLK3\_HUMAN Prostate-specific antigen OS=Homo sapiens GN=KLK3 PE=1 SV=2

MWVPVVFVLTLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWV  
LTAHCIRNKS VILLGRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHD  
LMLLRLSEPAELTDAVKVMDLPTQEPALGTTCYASGWSIEPEEFLTPKKLQCVDLHVIS  
NDVCAQVHPQKVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQGITSWGSEPCALPERP  
SLYTKVVHYRKWKDTIVANP

>sp|Q92876|KLK6\_HUMAN Kallikrein-6 OS=Homo sapiens GN=KLK6 PE=1 SV=1

MKKLMVVL SLIAAAWAEENKL VHGGPCDKTSHPYQAALYTSGHLLCGGVLHPLWVLT  
AHCKKPNLQVFLGKHNLQRESSQE QSSVRAVIHPDYDAASHDQDIMLLRLARPAKLSE  
LIQPLPLERDCSANTTSCHILGWKTADGDFPDTIQCAYIHLVSREECEHAYPGQITQNM  
LCAGDEKYGKDSCQGD SGGPLVCGDHLRGLVSWGNIPCGSKEKPGVYTNVCRYTNWIQKT  
IQAK

>sp|O60259|KLK8\_HUMAN Kallikrein-8 OS=Homo sapiens GN=KLK8 PE=1 SV=1

MGRPRPRAAKTWMFLLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAALFQGGQLLCGG  
VLVGGNWLTA AHCKKPKYTVRLGDHSLQNKDGPEQEIPVVQSIPHPCYNSSDVEDHNHD  
LMLLQLRDQASLGSVKPI SLADHCTQPGQKCTVSGWGTVTSPRENFPDTLNCAEVKIFP  
QKKCEDAYPGQITDGMVCAGSSKGADTCQGD SGGPLVCDGALQGITSWGSDPCGRSDKPG

VYTNICRYLDWIKKIIGSKG

>sp|Q9UKQ9|KLK9\_HUMAN Kallikrein-9 OS=Homo sapiens GN=KLK9 PE=2 SV=1

MKLGLLCALLSLLAGHWADTRAIGAEECRPNSQPWQAGLFHLTRLFCGATLISDRWLLT  
AAHCRKPYLWVRLGEHHLWKWEGPEQLFRVTDFFPHPGFNKDLSANDHNDIMLIRLPRQ  
ARLSPAVQPLNLSQTCVSPGMQCLISGWGAVSSPKALFPVTLQCANISILENKLCHWAYP  
GHISDSMLCAGLWEGGRGSCQGDSSGGPLVCNGTLAGVVSOGGAEPCSRPRRPAVYTSVCHY  
LDWIQEIMEN

>sp|Q86Z14|KLOTB\_HUMAN Beta-klotho OS=Homo sapiens GN=KLB PE=1 SV=1

MKPGCAAGSPGNEWIFFSTDEITTRYRNTMSNGGLQRSVILSALILLRAVTGFSGDGRAI  
WSKNPNFTPVNESQLFLYDTFPPKFFWGIGTGALQVEGSWKKDGKGPSIWDHFIHHLKN  
VSSTNGSSDSYIFLEKDLSDFIGVSFYQFSISWPRLFPDGIIVTANAKGLQYYSTLLD  
ALVLRNIEPIVTLYHWDLPALQEKYGGWKNDDIIDIFNDYATYCFQMFGDRVKYWITIH  
NPYLVAWHGYGTGMHAPGEKGNLAAVYTVGHNLIAHSAKVWHNYNTHFRPHQKGWLSITL  
GSHWIEPNRSENTMDIFKCCQSMVSVLGWFANPIHGDGDYPEGMRKKLFSVLPIFSEAEK  
HEMRGTADFFAFSFGPNFPLNTMAKMGQNVSLNREALNWIKLEYNNPRILIAENGWF  
TDSRVKTEDTTAIYMMKNFLSQVLQAIRLDEIRVFGYTAWSLLDGFEWQDAYTIRRGFLFY  
VDFNSKQKERKPKSSAHYYKQIIRENGFSLKESTPDVQGGFPCDFSWGVTESVLKPESVA  
SSPQFSDPHLYVWNATGNRLLHRVEGVRLKTRPAQCTDFVNIKKQLEMLARMKVTHYRFA  
LDWASVLP TGNLSAVNRQALRYRCVVSEGLKLGISAMVTLYYP THAHLGLPEPLLHADG  
WLN PSTAEAFQAYAGLCFQELGDLVKLWITINEPNRLSDIYNRSGNDTYGAAHNLLVAHA  
LAWRLYDRQFRPSQRGAVSLSLHADWAEPANPYADSHWRAAERFLQFEIAWFAEPLFKTG  
DYPAAMREYIASKHRRGLSSSALPRLTEAERRLLKGTVD F CALNHFTTRFVMHEQLAGSR  
YDSRDIQFLQDITRLSSPTRLAVIPWGVRLKLRWVRNRYGMDIYITASGIDDQALEDD  
RLRKYLYGKYLQEV LKAYLIDKVRIKGYAFKLAEEKSKPRFGFTSDFKAKSSIQFYNK  
VISSRGFPFENSSSRCSQTQENTECTVCLFLVQKKPLIFLGCCFFSTLVLLLSIAIFQRQ  
KRRKFWKAKNLQHIPLKKGKRVVS

>sp|P05771|KPCB\_HUMAN Protein kinase C beta type OS=Homo sapiens GN=PRKCB PE=1 SV=4

MADPAAGPPPSEGEESTVRFARKGALRQKNVHEVKNHKFTARFFKQPTFCSHCTDFIWGF  
GKQGFQCQCVCFFVHKRCHFEVTFSCPGADKGPASDDPRSKHKFKIHTYSSPTFCDHCGS  
LLYGLIHQGMKCDTCMMNVHKRCVMNVPSLCGTDHTERRGRIYIQA HIDRDVLIVLVRDA  
KNLVPMDPNGLSDPYVKLKLIPDPKSESKQKTKIKCSLPEWNETFRFQLKESDKDRRL  
SVEIWDWDLTSRNDFMGSLSFGISSELQKASVDGWFKLLSQEEGEYFNVPVPPEGSEANEE  
LRQKFERAKISQGTKVPEEKTNTVSKFDNNGNRDRMKLTDNFNLMVLGKSFGKVMLSE  
RKGTDELYAVKILKKDVVIQDDDVECTMVEKRVLALPGKPPFLTQLHSCFQTMDRLYFVM  
EYVNGDLMYHIQQVGRFKEPHAVFYAAEIAIGLFFLQSKGIYRDLKLDNVMLDSEGHI  
KIADFGMCKENIWDGVTTKTFCTPDYIAPEIIAYQPYGKSVDWWAFGVLLYEMLAGQAP  
FEGEDEDEL FQSIMEHNVAYPKMSKEAVAICKGLMTKHPGKRLGCGPEGERDIKEHAFF  
RYIDWEKLERKEIQPPYKPKARDKRDTSNFDKEFTRQPVELTPTDKL FIMNLDQNEFAGF  
SYTNPEFVINV

>sp|Q02156|KPCE\_HUMAN Protein kinase C epsilon type OS=Homo sapiens GN=PRKCE PE=1 SV=1

MVVFNGLLKIKICEAVSLKPTAWSLRHAVGPRPQTFLDPYIALNVDDSRIGQTATKQKT  
NSPAWHDEFVTDVCNGRKIELAVFHDAPIGYDDFVANCTIQFEELLQNGSRHFEDWIDLE  
PEGRVYVIIDLSGSSGEAPKDNEERVFRERMRRKRQGA VRRRVHQVNGHKFMATYLRQP  
TYCSHCRDFIWGVIGKQGYQCQVCTCVVHKRCHELIITKCAGLKKQETPDQVGSQRFSVN

MPHKFGIHNYKVPTFCDHCGSLLWGLLRQGLQCKVCKMNVHRCETNVAPNCGVDARGIA  
KVLADLGVTDPKITNSGQRRKKLIAGAESPQPASGSSPSEEDRSKSAPTSPCDQEIKELE  
NNIRKALSFDNRGEEHRAASSPDGQLMSPGENGEVRQGQAKRLGLDEFNFIKVLGKGSFG  
KVMLAELKGKDEVYAVKVLKKDVLQDDDDVCTMTEKRILALARKHPYLTQLYCCFQTKD  
RLFFVMEYVNGDLMFQIQRSRKFEPRSRFYAAEVTSALMFLHQHGVYIRDCLKDNILL  
DAEGHCKLADFGMCKEGILNGVTTTTFCGTPDYIAPEILQELEYGPSVDWWALGVLMEYEM  
MAGQPPFEADNEDDLFESILHDDVLYPVWLSKEAVSILKAFMTKNPHKRLGCVASQNGED  
AIKQHPFFKEIDWVLEQKKIKPPFKPRIKTKRDVNNFDQDFTREEPVLTLVDEAIVKQI  
NQEEFKGFSYFGEDLMP

>sp|Q04759|KPCT\_HUMAN Protein kinase C theta type OS=Homo sapiens GN=PRKCQ PE=1 SV=3

MSPFLRIGLSNFDGSCQSCQGEAVNPYCAVLVKEYVESENGQMYIQKKPTMYPPWDSTF  
DAHINKGRVMQIIIVKGKNVDLISETTVELYSLAERCRCNNKGTEIWLELKPQGRMLMNAR  
YFLEMSDTKDMNEFETEGFFALHQRRGAIKQAKVHHVKCHEFTATFFPQPTFCVSCHEFV  
WGLNKQGYQCRQCNAAIHKCICKVIAKCTGSAINSRETMFHKERFKIDMPHRFKVYNYK  
SPTFCEHCGTLLWGLARQGLKCDACGMNVHRCQTKVANLCGINQKLMAEALAMIESTQQ  
ARCLRDTEQIFREGPVEIGLPCSIKNEARPPCLPTPGKREPQGISWESPLDEVDMCHLP  
EPELNKERPSLQIKLKIEDFILHKMLGKGSFGKVFLAEFKKTNQFFAIKALKKDVVLMDD  
DVECTMVEKRVLSLAWEHFPLTHMFCTFQTKENLFFVMEYLNCGDLMYHIQSCHKFDLSR  
ATFYAAEIIILGLQFLHSGKIVYRDCLKDNILLDKDGHIKIADFGMCKENMLGDAKTNFTC  
GTPDYIAPEILLGQKYNHSVDWWSFGVLLYEMLIGQSPFHGQDEEELFHSIRMDNPFYPR  
WLEKEAKDLLVKLVFREPEKRLGVRGDIRQHPLFREINWEELERKEIDPPFRPKVKSPFD  
CSNFDKEFLNEKPRLSFADRALINSMDQNMFRNFSFMNPGMERLIS

>sp|Q05513|KPCZ\_HUMAN Protein kinase C zeta type OS=Homo sapiens GN=PRKCZ PE=1 SV=4

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VDSEGDPTVSSQMELEEAFLRLARQCRDEGLIHVFPSTPEQPGLPCPGEDKSIYRRGAR  
RWRKLYRANGHLFQAKFRNRRAYCGQCSERIWGLARQGYRCINCKLLVHKRCHGLVPLTC  
RKHMSVMPSQEPPVDDKNEDADLPSEETDGIAYISSSRKHDSIKDDSEDLKPVIDGMDG  
IKISQGLGLQDFDLIRVIGRGSYAKVLLVRLKKNQIYAMKVVKELVHDDDEDIDWVQTE  
KHVFEQASSNPFLVGLHSCFQTTSRLFLVIEYVNGDLMFHMQRQRKLPEEHARFYAAEI  
CIALNFLHERGIIYRDCLKDNVLLDADGHIKLTIDYGMCKEGLPGDTTSTFCGTPNYIAP  
EILRGEEYGFSDWWALGVLMEFMAGRSPFDIITDNPDMNTEDYLFQVILEKPIRIPRF  
LSVKASHVLKGFNLKDPKERLGCRPQTGFSDIKSHAFFRSIDWDLLEKKQALPPFPQIT  
DDYGLDNFDTQFTSEPVQLTPDDEDAIKRIDQSEFEGFEYINPLLSTEEVS

>sp|P11801|KPSH1\_HUMAN Serine/threonine-protein kinase H1 OS=Homo sapiens GN=PSKH1 PE=1  
SV=4

MCGGTSKVLPEPPKDVQLDLVKKVEPFSGTKSDVYKHFITEVDSVGPVKAGFPAASQYAH  
PCPGPPTAGHTEPPSEPPRRARVAKYRAKFDPRVTAKYDIKALIGRGSFSRVVRVEHRAT  
RQPYAIKMIETKYREGREVCESLRVLRVRHANIQLVEVFETQERVYVMELATGGEL  
FDRIIAKGSFTERDATRVLMQVLDGVRYLHALGITHRDLKPENLLYYHPGTDSKIITDF  
GLASARKKGDDCLMKTTCTGPEYIAPEVLVRKPYTNSVDMWALGVIAIILSGTMPFEDD  
NRTRLRQILRGKYSYSGEPWPSVSNLAKDFIDRLLTVDPGARMTALQALRHPWVVSMAA  
SSSMKNLHRSISQNLKRASSRCQSTKSAQSTRSSRSTRSNKSRRVRERELRELNLRYQQ  
QYNG



>sp|P60331|KR101\_HUMAN Keratin-associated protein 10-1 OS=Homo sapiens GN=KRTAP10-1 PE=2 SV=2

MAASTMSVCSSACDSWQVDACPESCCEPHCCALSCCAPAPCLTLVCTPVSRVSSPCCQA  
ACEPSPCQSGCTSSCTPSCCQSSCQPACCTSSPCQQACCVPVCKPVCCLPCTCKDSSS  
CCQQSSCQPTCCASSSSQSCCVPVCKPVYVPTCSEDSSSCCQSSCHPACCTSSPCQ  
QACCVPVRCCKPVCKPICCVPVCSGASTSCCQSSCQPACCTTSCCRPSSSVSLLCRPVC  
RPACCMVPSSCCAPASSCQASCCRPASCVSLLCRPACSRPAC

>sp|P60369|KR103\_HUMAN Keratin-associated protein 10-3 OS=Homo sapiens GN=KRTAP10-3 PE=2 SV=2

MATSTMSVCSSAYSDSWQVDACPESCCEPPCCATSCCAPAPCLTLVCTPVSCVSSPCCQA  
ACEPSPCQSGCTSSCTPSCCQSSCQPACCTSSPCQQACCVPVCKPVCCVPVCKPVCC  
KPICVPVCSGASSSCCQSSRPACCTTSCCRPSSSVSLLCRPVCRSTCCVPIPSCCAP  
ASTCQPSCCRPAASCVSLLCRPTCSRLSSACGLSSGQKSSC

>sp|P60411|KR109\_HUMAN Keratin-associated protein 10-9 OS=Homo sapiens GN=KRTAP10-9 PE=1 SV=2

MAASTMSIRSSAYSDSWQVDDCPESCCEPPCCATSCCAPAPCLTLVCTPVSRVSSPCCQV  
TCEPSPCQSGCTSSCTPSCCQSSCQPAYCTSSPCQQACCVPVCKPVCCVPVCCGASSC  
CQQSSYQPACASSSCQPACCVPVCKPVCCAPTCEDSYSCCQSSCQPACCTSSPCQQ  
SYCVPVCKPVCKPICCVPVCSGASSLCCQSGCQPACCTTSCCRPSSSVSLLCRPVCR  
PACCVPVSSCCAPTSSRQPSYCRQASCVSLLCRPVCSRPAACYSFSSGQKSSC

>sp|Q3LI54|KR198\_HUMAN Keratin-associated protein 19-8 OS=Homo sapiens GN=KRTAP19-8 PE=3 SV=1

MSYYSYGGGLGYGYGGFGGWGYGYGCGYGSFRRLGYCGYGGYGFSCCRPLYGGYGF  
AFY

>sp|Q8N6L1|KTAP2\_HUMAN Keratinocyte-associated protein 2 OS=Homo sapiens GN=KRTCAP2 PE=1 SV=2

MVVGTTGSLALSSLLSLLLFAQMYSRQLASTEWLTIQGGLLGSLFVFSLTAFNNLEN  
LVFGKGFQAKIFPEILLCLLLALFASGLIHRVCVTTCFIFSMVGLYYINKISSTLYQAAA  
PVLTPAKVTGKSKKRN

>sp|Q9H079|KTBL1\_HUMAN KATNB1-like protein 1 OS=Homo sapiens GN=KATNBL1 PE=1 SV=1

MASETHNVKKRNFCKIEDHFIDLPRKKISNFTNKNMKEVKKSPKQLAAYINRTVGQTVK  
SPDKLRKVIYRRKKVHHFPNPNCYRKQSPGSGGCDMANKENELACAGHLPEKLHHSRT  
YLVNSSDSGSSQTESPSSKYSGFFSEVSQDHETMAQVLSRNMRLNVALTFWRKRSISEL  
VAYLLRIEDLGVVVDCLPVLTNCLQEEKQYISLGCCVDLLPLVKSLLKSKFEEYVIVGLN  
WLQAVIKRWWSELSSKTEIINDGNIQILKQQLSGLWEQENHLLVPGYTGNIAKDVDAYL  
LQLH

>sp|Q8NBH2|KY\_HUMAN Kyphoscoliosis peptidase OS=Homo sapiens GN=KY PE=1 SV=2

MELKKDINAVSIDMLLIVHSEKRRAAQGTLSQQANPSSLLQRGGGFQGVGNGVRRWQKL  
EGNDFHENLVEKHPQPPQVITSYNSQGTQLTVEVHPRDAMPQLKKFSLAKRLQGDKN  
NTRPRQPGGKDAHAYPWDRSSLKMSLDLQQFEKLDIYASQVTAKSGLDELVSDDLQEAH  
TDLERVRAIWIWICHHIEYDIAAAQEKDRQAFKPTDILRTQKTNCDGYAGLFERMCRLAG  
VQCMTPVPGYSKGFYQGTGQSFSGEFDHAWNNAVYLEGRWHLVDSTWGSGLVDTITSKFTFL  
YNEFYFLTHPALFIEDHFPDNKNWQLKPPQSLRQFENNMYHKSEFYNGMLSAHPETSM  
IRTVNGKATVTIESCAPTLFMFMLNGKQEHGLLSLRKNGMKLEVYPPTMGTHKLQIFAKG

NSDIYSSVLEYTLKCNVDMGVQLPAELHQVGPWFSEQMGIMKPSHPDPIIHTSDGRC  
SISFSVEEGINVLASLHGDDGPITEETQRRYIFQLHREKQTELKVQLPHAGKFALKIYVM  
VLENANHNFYSYILKYKNAQ

>sp|Q6P1M3|L2GL2\_HUMAN Lethal(2) giant larvae protein homolog 2 OS=Homo sapiens GN=LLGL2  
PE=1 SV=2

MRRFLRPGHDPVRERLKRDLFQFNKTVEHGFPHQPSALGYSPSLRILAIGTRSGAIKLYG  
APGVEFMGLHQENNAVTQIHLLPGQCQLVTLDDNSLHLWSLKVKGGASELQEDESFTLR  
GPPGAAPSATQITVVLPHSSCELLYLGTESGNVFVVQLPAFRALEDRTISSDAVLQRLPE  
EARHRRVFEMVEALQEHPRDPNQILIGYSRGLVVIWDLQGSRLVYHFLSSQQLENIWWQR  
DGRLLVSCHSYQWVPVSSEAQQPEPLRSLVPYGPFPCKAITRILWLTRQGLPFTIF  
QGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDPYALVLAEEE  
LVVIDLQTAGWPPVQLPYLASLHCSAITCSHHVSNIPKLWERIIAAGSRQNAHFSTMEW  
PIDGGTSLTPAPPQRDLLLTGHEDGTVRFWDASGVCLRLLYKLSTVRVFLTDTDPNENFS  
AQGEDEWPPLRKVGSFDPYSDDPRLGIQKIFLCKYSGYLAVAGTAGQVLVLELNDEAAEQ  
AVEQVEADLLQDQEGYRWKGHERLAARSGPVRFEPGFQPFVLVQCQPPAVVTSALHSEW  
RLVAFGTSHGFGLFDHQRRQVFVKCTLHPSDQLALEGPLSRVSKLKKSLRQSFRRMRRS  
RVSSRRKHPAGPPGEAQEGSAKERPGLQNMELAPVQRKIEARSAEDSFTGFVRTLYFAD  
TYLKDSSRHCPSLWAGTNGGTIYAFSLRVPPAERRMDEPVRAEQAKEIQLMHRAPVVGIL  
VLDGHSVPLPEPLEVAHDLSKSPDMQGSQLLVVSEEQFKVFTLPKVS AKLKLKLTALLEG  
SRVRRVSVAHFGSRAEDYGEHHLAVLTNLGDIQVVSLLPKPVRYSCIRREDVSGIAS  
CVFTKYGGFYLI SPSEFERFSLSTKWLVEPRCLVDSAETKNHRPGNGAGPKKAPSRARN  
SGTQSDGEEKQPGLVMERALLSDERVLKEIQSTLEGDRGSGNWRSHRAAVGCSSLNNGGAE

>sp|Q8WV93|LACE1\_HUMAN Lactation elevated protein 1 OS=Homo sapiens GN=LACE1 PE=1 SV=2

MAASWSLLVTLRPLAQSPLRGRCVCGAWAAALAPLATAPGKPFWKAYTVQTSSEMTPTA  
TSETYLKALAVCHGPLDHYDFLIKAHELKDDEHQRRVIQCLQKLHEDLKGYNIEAEGIFS  
KLFSRSKPPRGLVYVGDTGKTMVDMFYAYVEMKRKKRVHFHGFMLDVHKRIHRLKQS  
LPKRKPGFMAKSYDPIAPIAEEISEEACLLCFDEFQVTDIADAMILKQLFENLFKNGVVV  
VATSNRPPEDLYKNGLQRANFVPFIAVLKEYCNTVQLDSGIDYRKRELPAAAGKLYLTSE  
ADVEAVMDKLFDELAQKQNDLTRPRILKVQGRELRLNKACGTVADCTFEELCERPLGASD  
YLELSKNFDTIFLRNIPQFTLANRTQGRRFITLIDNFYDLKVRIICSASTPISSFLHQH  
HDSELEQSRILMDDLGLSQDSAEGLSMFTGEEEIFAFQRTISRITEMQTEQYWNEGDRTK  
K

>sp|O00515|LAD1\_HUMAN Ladinin-1 OS=Homo sapiens GN=LAD1 PE=1 SV=2

MAVSRKDWSALSSSLARQRTLEDEEEQERERRRRHRNLSSTTDDEAPRLSQNGDRQASASE  
RLPSVEEAEPKPLPPASKDEDEDIQSILRTRQERRQRRQVVEAAQAPIQERLEAEEGRN  
SLSPVQATQKPLVSKKELEIPRRRLSREQRGPWALEEESLVGREPEERKKGVPEKSPVL  
EKSSMPKKTAPKSLVSDKTSISEKVLASEKTSLEKIAVSEKRNSEKKSVEKTSVSE  
KSLAPGMALGSGRRLVSEKASIFEKALASEKSPTADAKPAPKRATASEQPLAQEPPASGG  
SPATTKEQRGRALPGKNLPSLAKQGASDPPTVASRLPPVTQVKIPSKEEEDMSSPTQR  
TYSSSLKRSSPTISFRMKPKKENSETTLTRSASMKLPDNTVKLGEKLERYHTAIRRSES  
VKSRGLPCTELFVAPVGVASKRHLEKELAGQSRAEPASSRKENLRLSGVVTSRLNLWIS  
RTQESGDQDPQEAQKASSATERTQWGQKSDSSSLDAEV

>sp|Q92615|LAR4B\_HUMAN La-related protein 4B OS=Homo sapiens GN=LARP4B PE=1 SV=3

MTSDQDAKVVAEPQTQRVQEGKDSAHLMNPGPISQTTSQTSSIPPLSQVPATKVSSELPNA

EVWGAPVLHLEASSAADGVSAWEEVAGHHADRGPGQSDANGDGDQGHENAALPDPQESD  
PADMNALALGPSEYDSL PENSETGGNESQPDSQEDPREVLKKTLEFCLSRENLASDMYLI  
SQMDSQYVPITTVANLDHIKCLSTDVDLIVEVLRSLPLVQVDEKGEKVRPNQNCIVIL  
REISESTPVEEVEALFKGDNLPKF INCEFAYNDNWFITFETEADAQQAYKYLREEVKTFQ  
GKPIKARIKAKAIAINTFLPKNGFRPLDVSLYAQQRYATSFYFPPMYSPPQQFPLYSLIT  
PQTWSATHSYLDPPLVTPFPNTGFINGFTSPAFAKPAASPLTSLRQYPPRSRNPSPKSHLRH  
AIPSAERGPGLESPIFNFTADRLINGVRSPQTRQAGQTRTRIQNPSAYAKREAGPGRV  
EPGSLESSPGLGRGRKNSFGYRKKEEKFTSSQTQSPTPKPPSPSFELGLSSFPLPGA  
AGNLKTEDLFENRSSLIIGPSKERTLSADASVNTLPVVVSREPSVPASCAVSATYERSP  
SPAHLPPDPKVAEKQRETHSVDRLPALTATACKSVQVNGAATELRKPSYAEICQRTSKE  
PPSSPLQPQKEQKPNVTGCGKEEKLAEPARYREPPALKSTPGAPRDQRRPAGGRPSPS  
AMGKRLSREQSTPPKSPQ

>sp|O95461|LARG1\_HUMAN LARGE xylosyl- and glucuronyltransferase 1 OS=Homo sapiens  
GN=LARGE1 PE=1 SV=1

MLGICRGRKFLAASLLCIPAITWIYLFSGSFEDGKPVSLSPLESAHSRYTASSQR  
ERESLEVRRMREVEEENRALRRQLSLAQGRAPSHRRGNHSTYSMEEGTGDSENLRAGIVA  
GNSSECGGQPVVEKCEITHVAIVCAGYNASRDVVTLVKSVLFHRRNPLHFHLIADSLAEQ  
ILATLFQTMVPAVRVDFYNADELKSEVSWIPNKHYSGLYGLMKLVLTCLPANLERVIV  
LDTDITFATDIAELWAVFHKFGQVGLVENQSDWYLGNLWKNHRPWPALGRGYNTGVI  
LLLLDKLRKMKWEQMWRLTAERELMGMLSTSLADQDIFNAVIKQNPFLVYQLPCFWNVQL  
SDHTRSEQCYRDVSLKVIHWNPKKLRVKNKHVEFFRNLYLTFLEYDGNLLRRELFQCP  
SEADVNSENLQKQSELDEDDLCYEFRRERFTVHRTHLYFLHYEYEPAADSTDVTLVAQL  
SMDRLQMLEAICKHWEGPISLALYLSDAEAQQFLRYAQGSEVMSRHNVGYHIVYKEGQF  
YPVNLLRNVAMKHISTPYMFLSDIDFLPMYGLYEYLRKSVIQLDLANTKKAMIVPAFETL  
RYRSLFPKSKAELLSMLDMGTFTFRYHVWTKGHAPTNTFAKWRTATTPYRVEWEADFEPY  
VVVRDCPEYDRRFVGFQWKNVAHIMELDVQEYEFIVLPNAYMIHMPHAPSFDITKFRSN  
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>sp|Q8N3Y3|LARG2\_HUMAN LARGE xylosyl- and glucuronyltransferase 2 OS=Homo sapiens  
GN=LARGE2 PE=1 SV=2

MLPRGRPRALGAAALLLLLLLFGDLGCERREPGGRAGAPGCFPGPLMPRVPPDG  
RLRRAAALDGDGPAGPGDHNRSDCGPQPPPPKCELLHVAIVCAGHNSSRDVITLVKSML  
FYRKNPLHLVTDVARNILETLFHTWMVPAVRVSFYHADQLKPQVSWIPNKHYSGLYG  
LMKLVLPALPAELARVIVLTDVTFASDISLWALFAHFSDTQAIGLVENQSDWYLGNL  
WKNHRPWPALGRGFNTGVILLRLDRLRQAGWEQMWRLTARRELLSLPATSLADQDIFNAV  
IKEHPGLVQRLPCVWNVQLSDHTLAERCYSEASDLKVIHWNPKKLRVKNKHVEFFRNFY  
LTFLEYDGNLLRRELFVCPSPPPGAEQLQQAQLDEEDPCFEFRQQQLTVHRVHVTFL  
PHEPPPPRPHDVTVAQLSMDRLQMLEALCRHWPGPMSLALYLTDAEAQQFLHFVEASPV  
LAARQDVAYHVYREGPLYPVNQLRNVALAQALTPYVFLSDIDFLPAYSLYDYLRASIEQ  
LGLGSRRAALVVPFETLRYRFSFPHSKVELLALLDAGTLYTFRYHEWPRGHAPTDYAR  
WREAQAPYRVQWAANYEPYVVPRDCPRYDPRFVGFQWKNVAHIVELDAQEYELLVLEA  
FTIHLPHAPSLDISFRSSPTYRDCLQALKDEFHQDLSRHHGAAALKYLPALQQPQSPAR  
G

>sp|Q9BQE6|LBHD1\_HUMAN LBH domain-containing protein 1 OS=Homo sapiens GN=LBHD1 PE=1 SV=3  
MALVPGRSKEDGLWTRNSPGSSQHPESPRLPNPLWDRGKIGKVEGHQHIQVSTSSACVWQ

LAYPPVWPNLPAVPIQDFSQKSHLPSIVVESSEVNEESGDLHLPHEELLLLTGEEEDAE  
AFFQDQSEEPGWAWSQDPRSPLRTFNAGLSWGQDQDEEDACWILEDTACLEATNHCPFW  
DSTGSRVCRSGFVEYSHLLPPNSFEGAEAAVQTPAGVESGAASEAPGGRGCDRPRADHA  
APPQEAGVQCTCQHYTVREEAQKTPADPACPEREDSHGSGSPFKASQD

>sp|Q86UK5|LBN\_HUMAN Limbin OS=Homo sapiens GN=EVC2 PE=1 SV=1  
MDPSGSRGRPTWVLAGLLAVALALGGRGCLGASSRPRWRPLGAQPPRDPQVAPRSGPGL  
RIPPGRSGAGPESSTQDLPCMIIWPKVECHFKTAVEAPLGMKLDKKMEVFIPLSTSAASS  
GPWAHSLFAFIPSPWPKKNLFKRESPI THRLYGDISREVQGTSENGVIFQKCALVSGSSEA  
QTARIWLLVNNTKTTSSANLSELLLLDSIAGLTIWDSVGNRTSEGFQAFSKKFLQVGDAF  
AVSYAATLQAGDLNGESLKLPAQLTFQSSSRNRTQLKVLFSITAEENVTVLPHHGLHAA  
GFFIAFLLSLVLTWAALFLMVRYQCLKGNMLTRHRVWQYESKLEPLPFTSADGVNEDLSL  
NDQMIDILSSEDPGSMLQALEEIEIATLNRADADLEACRTQISKDIIALLKNTSSGHL  
SPQVERKMSAVFKKQFLLLENIQEYDRKMVALTAECDLETRKKMENQYQREMMAMEEA  
EELLKRAGERSAVECSNLLRTLHGLEQEHLRKSLALQQEEDFAKAHRQLAVFQRNELHSI  
FFTQIKSAIFKGELKPEAAKMLLQNYSKIENVEELMDFQASKRYHLSKRFGHREYLVQ  
NLQSSETRVQGLLSTAAQLTHLIQKHERAGYLDQMEMLLERAQTEVFSSIKQLDNDL  
KQEKKKLHQKLITKRRRELLQKHREQRREQASVGEAFRTVEDAGQYLHQKRSLMEEHGAT  
LEELQERLDQAALDDLRTLTLSEKATDELRRQLNSAMTQELLKRGVPWFLQQLILEEH  
GKEMAARAEQLEGEERDRDQEGVQSVRQLKDDAPEAVTEEQAELRRWEHLIFMKLCSSV  
FSLSEEELLRMRQEVHGCFAQMDRSLALPKIRARVLLQQFQTAWREAEFVKLDQAVAAPE  
LQQQSKVRKSRSKSKGELLKKCIEDKIHLCCEEQASEDLVEKVRGELLRERVQRMEAQE  
GGFAQSLVALQFQKASRVTTETLSAYTALLSIQDLLLEELSASEMLTKSACTQILESHSRE  
LQELERKLEDQLVQQEAAQQQALASWQQWVADGPGILNEPGEVDSERQVSTVLHQALSK  
SQTLLQHQCLREEQQNSVLEDLLENMEADTFATLCSQELRLASYLARMAMVPGATLR  
RLLSVVLPTASQPQLLALLDSATERHVDHAAESDGGAEQADVGRRRKHQSWWQALDGKLR  
GDLISRGLEKMLWARKRKQSILKKTCLPLRERMIFSGKGSWPHLSLEPIGELAPVPIVGA  
ETIDLLNTGEKLFIFRNPKEPEISLHVPPRKKKNFLNAKKAMRALGMD

>sp|Q5T7P2|LCE1A\_HUMAN Late cornified envelope protein 1A OS=Homo sapiens GN=LCE1A PE=2  
SV=1

MSCQSQQQCQPPPKCTPKCPPKCPTPKCPPKCPPKCPPVSSCCSVSSGGCCGSSSGGGC  
SSGGGGCCLSHHRRHRSHRHLQSSGCCSQPSGGSSCCGGDSGQHSGGCC

>sp|Q5T751|LCE1C\_HUMAN Late cornified envelope protein 1C OS=Homo sapiens GN=LCE1C PE=2  
SV=1

MSCQSQQQCQPPPKCTPKCPPKCPTPKCPPKCPPKCPPVSSCCSVSSGGCCGSSSGGSC  
GSSSGGCCSSGGGGCCLSHHRRRRSHCHRPQSSGCCSQPSGGSSCCGGGSGQHSGGCC

>sp|Q5T754|LCE1F\_HUMAN Late cornified envelope protein 1F OS=Homo sapiens GN=LCE1F PE=1  
SV=1

MSCQSQQQCQPPPKCTPKCPPKCPTPKCPPKCPPKCPPVSSCCSVSSGGCCGSSSGGCC  
SSGGGGCCSSGGGGCCLSHHRRRRSHRHRPQSSDCCSQPSAGSSCCGGGSGQHSGGCC

>sp|Q5TA81|LCE2C\_HUMAN Late cornified envelope protein 2C OS=Homo sapiens GN=LCE2C PE=1  
SV=1

MSCQQNQCCQPPPKCTPKCPPKCPTPKCPPKCPPKCPPQCPAPCFPAVSSCCGPSSGSCGPSS  
GGCCSSGAGGCSLSHHRPRLFHRRRHQSPDCESEPSGGSGCCHSSGGCC

>sp|Q5T5A8|LCE3C\_HUMAN Late cornified envelope protein 3C OS=Homo sapiens GN=LCE3C PE=1 SV=1

MSCQQNQQQCQPPSPCKPPKSPAQCLPPSSDCALSSGGCGPSSESGCCLSHHRHF  
RSHQCRRQRSNSCDRGSGQGGGSCRGHGSGGCC

>sp|AOA183|LCE6A\_HUMAN Late cornified envelope protein 6A OS=Homo sapiens GN=LCE6A PE=3 SV=1

MSQQKQQSWKPPNPVKSPQSRNPCLAPYSTPCGAPHSEGCSSSRPEVQKPRRARQK  
LRCLSRGTTYHCKEEEECEGD

>sp|Q6JVE6|LCN10\_HUMAN Epididymal-specific lipocalin-10 OS=Homo sapiens GN=LCN10 PE=1 SV=1

MRQGLLVLALVVLVLAAGSQVQEWYPRESHALNWNKFSGFWYILATATDAQGFLPAR  
DKRKLASVVKVNVGQLRVLLAFRRGQCGRAQPRHPGTSGHLWASLSVKGVKAFHVLS  
TDYSYGLVYLRLGRATQNYKNLLL FHRQNVSSFQSLKEFMDACDILGLSKAAVILPKDAS  
RTHITLP

>sp|Q6JVE9|LCN8\_HUMAN Epididymal-specific lipocalin-8 OS=Homo sapiens GN=LCN8 PE=2 SV=1

MPGAAEALPTVTTLVAGAVPPASGALTAHCIGGFWREVGVASDQSLVLTAPKRVEGLFL  
TLSGSNLTVKVAYNSSGCEIEKIVGSEIDSTGKFAFPGHREIHVLDTDYEGYAILRVSL  
MWRGRNFRVLKYFTRSLEDKDRLGFWKFREL TADTGLYLAARPGRCAELLKEELI

>sp|Q8WX39|LCN9\_HUMAN Epididymal-specific lipocalin-9 OS=Homo sapiens GN=LCN9 PE=2 SV=3

MALLLLSLGLSLIAAQEFDPHTVMQRNYNVARVSGVWYSIFMASDDLNRKENGDLRVFV  
RNIEHLKNGSLIFDFEYMQGECVAVVVVCEKTEKNGEYSINYEQNTVAVSETDYRLF I  
TFHLQNFRNGTETHLTALYETCEKYGLGSQNIIDL TNKDPCYSKHYRSPRPPMRW

>sp|Q8N3X6|LCORL\_HUMAN Ligand-dependent nuclear receptor corepressor-like protein OS=Homo sapiens GN=LCORL PE=1 SV=4

MDKGRERMAAAAAAAAAAAAAAQCSPRCAAERRGFRELD SWRHRLMHCVGFESILEGL  
YGPRLRRDLSLFEDCEPEELTDWSMDEKCSFCNLQREAVSDCIPSLDSSQSTPTEELSSQ  
GQSNTDKIECQAENYLNALFRKKDLPQNCDPNIPLVAQELMKKMIRQFAIEYISKSGKTQ  
ENRNGSIGPSIVCKSIQMNQAENSLQEEQEGPLDLTVNRMQEQTQQGDGVLDLSTKKT  
IKSEESSICDPSSENS VAGRLHRNREDYVERSAEFADGLLSKALKDIQSGALDINKAGIL  
YGIPQKTLLLHLEALPAGKPASFKNKTRDFHDSYSYKDSKETCAVLQKVALWARAQERT  
EKSKLNLLETSEIKFPTASTYLHQLTLQKMVTQFKEKNESLQYETSNPTVQLKIPQLRVS  
SVSKSQPDGSLLDV MYQVSKTSSVLEGSALQKLKNILPKQNKIECSGPVTHSSVDSYFL  
HGDLSPLCLNSKNGTV DGTSENTEDGLDRKDSKQPRKKRGRYRQYDHEIMEEAIAMVMSG  
KMSVSKAQGIYGVPHSTLEYKVKERSGTLKTPPKKLRPLD TGLYNMTDSGTGCKNSSK  
PV

>sp|Q13094|LCP2\_HUMAN Lymphocyte cytosolic protein 2 OS=Homo sapiens GN=LCP2 PE=1 SV=1

MALRNVPFRSEVLGWDPD SLADYFKKLN YKDCEKAVKKYHIDGARFLNLTENDIQKF PKL  
RVPILSKLSQEINKNEERRSIFTRKPQVPRFPEETESHEEDNGGWSSFEEDDYESPND DQ  
DGEDDGDYESPNEEEAPVEDDADYEP PPSNDEEALQNSILPAKFPN SNSMYIDRPPSG  
KTPQQPPVPPQRMAALPPPAGRNH SPLPPPQTNHEEPSRSRNHKTAKLPAPSIDRSTK  
PPLDRSLAPFDREPFTLGKKPPFSDKPSIPAGRSLGEHLPKIQKPPLPPTTERHERSSPL  
PGKKPPVPKHGWPDRRENDEDDVHQRPLQPALLPMSSNTFPSRSTKPSPMNPLPSSH M  
PGAFSESNSSFPQSASLPPYFSQGPSNRPPIRAEGRNFLPLPNKPRPPSPAEEENSLNE  
EWYVSYITRPEAEALRKINQDGTFLVRDSSKTTTNPYVLMVLYKDKVYNIQIRYQKES

QVYLLGTGLRGKEDFLSVSDIIDYFRKMPLLLIDGKNRGSRYQCTLTHAAGYP

>sp|Q9H6V9|LDAH\_HUMAN Lipid droplet-associated hydrolase OS=Homo sapiens GN=LDAH PE=1 SV=1

MDSELKEEIPVHEEFILCGGAETQVLKCGPWTDLFHDQSVKRPKLLIFIIPGNPGFSAFY  
VPFAKALYSLTNRFPVWTISHAGHALAPKDKKILTTSEDSNAQEIKDIYGLNGQIEHKL  
AFLRTHVPKDMKLVLIHSGISGYFTLQMLKRVPELPVIRAFLLFPTIERMSESPNGRIAT  
PLLCWFRYVLYVTGYLLKPCPETIKSLLIRRGLQVMNLENEFSPLNILEPFCLANAAYL  
GGQEMMEVVKRDDETIKEHLCKLTFYYGTIDPWCPEYEDIKKDFPEGDIRLCEKNIPH  
AFITHFNQEMADMIADSLKDDLSKM

>sp|P07195|LDHB\_HUMAN L-lactate dehydrogenase B chain OS=Homo sapiens GN=LDHB PE=1 SV=2

MATLKEKLIAPVAEEETVPNNKITVVGVGQVGMACAISILGKSLADELALVDVLEDKLK  
GEMMDLQHGSFLQTPKIVADKDYSVTANSKIVVVTAGVRQQEGESRLNLVQRNVNVFKF  
IIPQIVKYSPDCIIIVVSNPVDILTYVTWKL SGLPKHRVIGSGCNLDSARFRYLMAEKL  
IHPSSCHGWILGEHGDSSVAVWSGVNVAGVSLQELNPEMGTDNSENWKEVHKMVVESAY  
EVIKLKGYNWAIGLSVADLIESMLKNLSRIHPVSTMVKMGYGIENEVFLSLPCILNARG  
LTSVINQKLKDDVAQLKKSADTLWDIQDKLDL

>sp|Q6P5S2|LEG1H\_HUMAN Protein LEG1 homolog OS=Homo sapiens GN=LEG1 PE=1 SV=2

MAFLPSWVCVLVGSFASLAGTSNLSETPPLWKESPGQLSDYRVENSMYIINPWVYLER  
MGMYKIIILNQARYFAKFAPDNEQNILWGLPLQYGWQYRTGRLADPTRRTNCGYESGDHM  
CISVDSWWADLNFLSSLPFLAAVDSGVMGISSDQVRLPPPKNERKFCYDVSSCRSSFP  
ETMNKWNFTYQYLQSPFSKFDDLLKYLWAAHTSTLADNIKSFEDRYDYSKAEAHFERSW  
VLAVDHAAVLFPPTLIRSYKFQKGMPPRIILLNTDVAPFISDFTAFQNVVLVLLNMLDNV  
DKSIGYLCTEKSNVYRDHSESSRSYGNS

>sp|P09382|LEG1\_HUMAN Galectin-1 OS=Homo sapiens GN=LGALS1 PE=1 SV=2

MACGLVASNLNLKPGECRLVRGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDAANTIV  
CNSKDGGAWGTEQREAVFPFQPGSVAEVCITFDQANLTVKLPDGYEFKFPNRLNLEAINY  
MAADGDFKIKCVAFD

>sp|Q3B8N2|LEG9B\_HUMAN Galectin-9B OS=Homo sapiens GN=LGALS9B PE=1 SV=3

MAFGSQAPYLSPAVPFSGTIQGGQLDGFQITVNGAVLSSSGTRFAVDFQTGFSGNDIAF  
HFNPRFEDGGYVVCNTRQKGRWGPEERKMHPFQKGMFPDLCFLVQSSDFKVMVNGSLFV  
QYFHRVPFHRVDTISVNGSVQLSYISFQNPRTVPVQPAFSTVPFSQPVCPPRPRGRRQK  
PPSVRPANPAPITQTVIHTVQSASGMFSQTPAIPPMYPHPAYPMPFITIPGGLYPSK  
SIILSGTVLPSAQRFHINLCSGSHIAFHMNPRFDENAVVRNTQINNSWGSEERSLPRKMP  
FVRGQSFSVWILCEAHCLKVAVDGGHVFEYYHRLRNLPTINKLEVGGDIQLTHVQT

>sp|Q6ZMV7|LEKR1\_HUMAN Leucine-, glutamate- and lysine-rich protein 1 OS=Homo sapiens  
GN=LEKR1 PE=2 SV=2

MLLKEKEDSLMTCQQIYKALQEELTVKEKQEEDIKRRINLAENELEITKTLNQTREEVL  
TLKNERELMLISHQKSIEQLQETLRQKLLSDDNWKEKIEAELAKERAQHLVEFEEQALLF  
KEETKLQLDIEKEKHQDVIQKYKKEQEELQMKISDLITGATRDLRQEVTTLKEKLHKS  
HI RYTEESNSKEKEIENLKNLVAEFESRLKKEIDSNDVSENLRKEMEQQSDELKRVMLAQT  
QLIEQFNQSQEENTFLQETVRRECEERFELTEALSQAREQLLELSKLRGSLPFSPCSLSK  
GSLTSPAAAVSNHGERSLARLNSEKGIQIPNLRGVSKPTTFPTSDKPKRVRSGVPILPQP  
HPPRGGASSANETRQLAAILRRRRSQQ

>sp|Q96BZ8|LENG1\_HUMAN Leukocyte receptor cluster member 1 OS=Homo sapiens GN=LENG1 PE=1 SV=1

MNILPKKSWHVRNKDNVARVRRDEAQAREEEKERERRVLLAQQEARTEFLRKKARHQNSL  
PELEAAEAGAPGSGPVDLFRELLEEGKGVIRGNKEYEEEEKRQEKERQEKALGILTYLGQS  
AAEAQTQPPWYQLPPGRGGPPPGPAPDEKIKSRLDPLREMQKHLGKKRQHGGDEGSRSRK  
EKEGSEKQRPKEPPSLDQLRAERLRREAERSRAEALLARVQGRALQEGQPEEDETDDRR  
RRYNSQFNPQLARRPRQQDPHLTH

>sp|Q8N5S9|KKCC1\_HUMAN Calcium/calmodulin-dependent protein kinase kinase 1 OS=Homo sapiens GN=CAMKK1 PE=1 SV=2

MEGGPAVCCQDPRAELVERVAIDVTHLEEDGGPEPTRNGVDPPPRARAASVIPGSTSR  
LLPARPSLSARKLSLQERPAGSYLEAQAGPYATGPASHISPRAWRPTIESHHVAISDAE  
DCVQLNQYKLQSEIGKGAYGVVRLAYNESED RHYAMKVL SKKKLLKQYGFPRRPPRGSQ  
AAQGGPAKQLPLERVYQEIAILKKLDHVN VVKLIEVLDDPAEDNLYLVFDLLRKGPVME  
VPCDKPFSEEQARLYLRDVLGLEYLHCQKIVHRDIKPSNLLGDDGHVKIADFGVSNQF  
EGNDAQLSSTAGTAPFMAPEAISDSGQSFSGKALDVWATGVTLYCFVYGKCPFIDDFILA  
LHRKIKNEPVVFPEEPEISEELKDLILKMLDKNPETRIGVPDIKLHPWVTKNGEELPSE  
EEHCSVVEVTEEEVKNSVRLIPSWTTVILVKSMLRKRSFGNPFEPQARREERSMSAPGNL  
LVKEGFGEGGKSPELPGVQEDEAAS

>sp|Q96M94|KLH15\_HUMAN Kelch-like protein 15 OS=Homo sapiens GN=KLHL15 PE=1 SV=2

MAGDVEGFCSSIHDTSVSAGFRALYEEGLLDVTLVIEDHQFAHKALLATQSDYFRIMF  
TADMRERDQDKIHLKGLTATGFSHVLQFMYYGTIELSMNTVHEILQAAMYVQLIEVVKFC  
CSFLLAKICLENCAEIMRLDDFGVNIIEGVREKLDTFLLDNFVPLMSRPDFLSYLSFEKL  
MSYLDNDHLSRFPEIELYEAVQSWLRHRRRWHTDTIIQNIRFCLMTPTS VF EKVTSE  
FYRYSRQLRYEVDQALNYFQNVHQQLLDMKSSRIRSAKPQTTVFRGMIGHSMVNSKILL  
LKKPRVWWELEGPQVPLRPDCLAIVNNFVFLGGEELGPDGEFHASSKVFRYDPRQNSWL  
QMADMSVPRSEFAVGVIKFIYAVAGRTRDET FYSTERYDITNDKWEFVDPYPVNYKGHE  
GTVLNNKLFITGGITSSSTSKQCVFDP SKEGTIEQRTRRTQVVTNCWENKSKMNYARCF  
HKMISYNGKLYVFGGVCVILRAS FESQGC PSTEVYNPETDQW TILASMPIGRSGHGVTVL  
DKQIMVLGGLCYNGHYSDSILTFDPDENKWKED EYPRMPCKLDGLQVCNLHFPDYVLDEV  
RRCN

>sp|Q9Y2M5|KLH20\_HUMAN Kelch-like protein 20 OS=Homo sapiens GN=KLHL20 PE=1 SV=4

MEGKPMRRCNTNIRPGETGMDVTSRCTLGDPNKLPEGVPQPARMPYISDKHPRQTLEVINL  
LRKHRELCDVVLVVGAKKIYAHRVILSACSPYFRAMFTGELAESRQTEVVIRDIDERAME  
LLIDFAYTSQITVEEGNVQTLLPAACLLQLAEIQEACCEFLKRQLDPSNCLGIRAFADTH  
SCRELLRIADKFTQHN FQEVMESEEFMLLPANQLIDISSDELNVRSEEQVFNAVMAVVK  
YSIQERRPQLPQVLQHVRLPLLSPKFLVGTVGSDPLIKSDEECDRLVDEAKNYLLLPQER  
PLMQGPRTTRPKPIRCGEVLFAVGWCSGDAISSVERYDPQTNEWRMVASMSKRRCGVGV  
SVLDDLLYAVGGHDGSSYLSVERYDPKTNQWSSDVAPTSTCRTSVGVAVLGGFLYAVGG  
QDGVSCLNIVERYDPKENKWTRVASMSTRRLGVAVAVLGGFLYAVGSGDGTSPLN TVERY  
NPQENRWHTIAPMGTRRKHLGCAVYQDMIYAVGGRDDTTELSSAERYNPRTNQWSPVVAM  
TSRRSGVGLAVVNGQLMAVG GFDGTTYLKTIEVFPDANTWRLYGGMNYRRLGGGVGVIK  
MTHCESHIW

>sp|Q9UJP4|KLH21\_HUMAN Kelch-like protein 21 OS=Homo sapiens GN=KLHL21 PE=1 SV=4

MERPAPLAVLPFSDPAHALSLRLGLSQLRAERKFLDVTLEAAGGRDFPAHRAVLAAASPY

FRAMFAGQLRESRAERVRLHGVPDMLQLLLDFSYTGRVAVSGDNAEPLLRAADLLQFPA  
VKEACGAFLQQQLDLANCLDMQDFAEAFSCSGLASAAQRFILRHVGELGAEQLERLPLAR  
LLRYLRDDGLCVPKEEAAYQLALRWVRADPPRRAAHPQLLEAVRLPFVRRFYLLAHVEA  
EPLVARCPPCLRLLEARDFQAARYDRHGRGPCRMRPRPSTGLAEILVLVGGCDQDCDE  
LVTVCYNPQTGWRYLAEPDHLGGGYSIVALGNDIYVTGGSDGSRLYDCVWRYNSSVN  
EWAEVAPMLKAREYHSSSVLDGLLYVVAADSTERYDHTTDSWEALQPMTYPMDCSTTAC  
RGRLYAIGSLAGKETMVMQCYDPDLDLSLWDCGQLPPWSFAPKTATLNGLMYFVRDDSA  
EVDVYNPTRNEWDKIPSMNQVHVGGSLAVLGGKLYVSGGYDNTFELSDVVEAYDPETRAW  
SVVGRLEPTFWHGSVSIFRQFMPQTFSGGRGFELDSGSDMDPGRPRPPRDPDELH

>sp|Q53GT1|KLH22\_HUMAN Kelch-like protein 22 OS=Homo sapiens GN=KLHL22 PE=1 SV=2

MAEEQEFTQLCKLPAQPSHPHCVNNTYRSAQHSQALLRGLALRDSGILFDVVLVVEGRH  
IEAHRILLAASCDYFRGMFAGGLKEMEQUEEVLIHGVSYNAMCQILHFIYTSELELSLSNV  
QETLVAACQLQIPEI IHFCCDFLMSWVDEENILDVYRLAELFDLSRLTEQLDTYILKNFV  
AFSRTDKYRQLPLEKVYSLSSNRLEVSCETEVEYEGALLYHYSLEQVQADQISLHEPPKL  
LETVRFPLEAEVLQRLHDKLDPSPRLDTVASALMYHRNESLQPSLQSPQTELRSDFQCV  
VGFGGIHSTPSTVLSQAKYLNPLLGEWKHFTASLAPRMSNQGI AVLNNFVYLIGGDNNV  
QGFRAESRCWRYDPRHNRWFQIQSLQQEHADLSVCVVGRIYAVAGRDYHNDLNAVERYD  
PATNSWAYVAPLKREYVAHAGATLEGKMYITCGRRGEDYLKETHCYDPGSNTWHTLADGP  
VRRAWHGMA TLNKL YVIGGSNNDAGYRRDVHQVACYSCTSGQWSSVCPLPAGHGEPGIA  
VLDNRIYVLGGRSHNRGSRGTGYVHIYDVEKDCWEEGPQLDNSISGLAACVLTLPRLSLLLE  
PPRGTPDRSQADPDFASEVMSVSDWEEFDNSSED

>sp|Q9H0H3|KLH25\_HUMAN Kelch-like protein 25 OS=Homo sapiens GN=KLHL25 PE=1 SV=1

MSVSVHETRKSRSSTGSMNVTLFHKASHPCVLAHLNLTLRKHCMTDVTWAGDRAFPCH  
RAVLAASSRYFEAMFSHGLRESRDDTVNFQDNLHPEVLELLLDFA YSSRI AINEENAESL  
LEAGDMLQFHDVRDAAA EFLEKNLFPSNCLGMMLLSDAHQCRRLYEFSWRMCLVHFETVR  
QSEDFNSLSKDTLLDLISSDELETEDERVVFEAILQWKHDLEPRKVHLP ELLRSVRLAL  
LPSDCLQEAVSSEALLMADERTKLIMDEALRCKTRILQNDGVVTSPCARPRKAGHTLLIL  
GGQTFMCDKIYQVDHKAKEIIPKADLPSPRKEFSASAIGCKVYVTGGRGSENGVSKDVVW  
YDVTHEEWSKAAPMLIARFGHGS AELENCLYVVGHTSLAGVFPASPSVSLKQVEKYDPG  
ANKWMMVAPLRDGVSNAAVVS AKLKL FVFGGTSIHRDMVSKVQCYDPSENRTWIKAECPQ  
PWRYTAAAVLGSQIFIMGGDTEFTAASAYRFDCE TNQWTRIGDMTAKRMSCHALASGNKL  
YVVGGYFGTQRCKTLDCYDPTSDTWNCITTPYSLIPTAFVSTWKHLPA

>sp|Q96CT2|KLH29\_HUMAN Kelch-like protein 29 OS=Homo sapiens GN=KLHL29 PE=2 SV=3

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SRLPTPATAPACTTGSSEAITSLVASSASAVTTKAPGISKGDSQSQGLATSIRWGQTP I  
NQSTPWD TDEPPSKQMRESNPGTGPWVTTVAAGNQPTLIAHSYGVAQPPTFSPAVNVQA  
PVIGVTPSLPPHVGQQLPLMPGHYSLQPPSQPLSSVVVNMPAQALYASPPQPLAVSTLPG  
VGQVARPGPTAVGNHGMAGLLPPPPPAQPSATLPSGAPATNGPPTTDSAHGLQMLRTIG  
VGKYEFTDPGHPREMLKELNQRRAKAFTDLKIVVEGREFEVHQNVLASCSLYFKDLIQR  
SVQDSGGGGRKELVLSNLQADVLELLLEFVYTGSLVIDSANAKTLLEAASKFQFHTFC  
KVCVSFLEKQLTASNCLGVLAMAEAMQCSELYHMAKAFALQIFPEVAAQEEILSISKDDF  
IAYVSNDSLNTKAELVYETVIKWKDPATRTQYAAELLAVVRLPFIHPSYLLNVVDNE  
ELIKSSEACRDLVNEAKRYHMLPHARQEMQTPRTRPRLSAGVAEIVLVGGRQMVGMTQR  
SLVAVTCWNPQNNKWYPLASLPFYDREFFSVVSAGDNIYLSGGMESGVTLADVWCYMSLL



DNWNLVSRMTVPCRHNLSLVYDGKIYTLGGLGVAGNVDHVERYDTITNQWEAVAPLPKAV  
HSAAATVCGGKIYVFGGVNEAGRAAGVLQSYVPQTNTWSFIESPMIDNKYAPAVTLNGFV  
FILGGAYARATTIYDPEKGNKAGPNMNSRQFCSAVVLDGKIYATGGIVSSEGPALGNM  
EAYEPTTNTWTLLPHMPCPVFRHGCVVIKKYIQSG

>sp|O15229|KMO\_HUMAN Kynurenine 3-monooxygenase OS=Homo sapiens GN=KMO PE=1 SV=2

MDSSVIQRKKVAVIGGGLVGSLLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSH  
RGRQALKAVGLEDQIVSQGIPMRARMIHSLSGKSAIPYGTQSQYILSVSRENLNKDLLT  
AAEKYPNVKMHFNHRLKCNPEEGMITVLGSDKVPKDVTCDLIVGCDGAYSTVRSHLMKK  
PRFDYSQQYIPHYGMELTIPKNGDYAMEPNYLHIWPRNTFMMIALPNMKSFTCTLFMP  
FEEFEKLLTSNDVVDFFQKYFPDAIPLIGEKLIVQDFFLLPAQPMISVKCSSFHFKSHCV  
LLGDAAHAIVPFFGQGMNAGFEDCLVDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLS  
MYNYIEMRAHVNSSWFIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKK  
VINKGLFFLGLSLIAISSTYLLIHYSRPSFLRLRRPWNWIAHFRNTTCFPAKAVDSLEQI  
SNLISR

>sp|P05129|KPCG\_HUMAN Protein kinase C gamma type OS=Homo sapiens GN=PRKCG PE=1 SV=3

MAGLGPGVGDSEGGPRPLFCRKGALRQKVVEVKSHKFTARFFKQPTFCSHCTDFIWGIG  
KQGLQCQVCSFVHRRCHEFVTFCEPGAGKGPQTDDPRNKHKFRLLHSYSSTFCDHCGSL  
LYGLVHQMKCSCCEMNVHRCVRSVPSLCGVDHTERRGRLQLEIRAPTADEIHVTVGEA  
RNLIPMDPNGLSDPYVKLKLIPDPRNLTKQKTRTVKATLNPVWNETFVFNLKPGDVERRL  
SVEVWDWDRTSRNDFMGAMSFVSELLKAPVDGWYKLLNQEEGEYYNVPVADADNCSLLQ  
KFEACNYPLELYERVRMGSSSPIPSPPSPPTDPKRCFFGASPGRLHISDFSFLMVLGKG  
SFGKVMLAERRGSDELYAIIKILKKDIVQDDVDCTLVEKRVLALGGRPGGRPHFLTQL  
HSTFQTPDRLYFVMEYVTGGDLMYHIQQLGKFKEPHAAFYAAEIIAIGLFFLHNQGIYRD  
LKLDNVMLDAEGHIKITDFGMCKENVFPGTTTRTFCGTPDYIAPEIIAYQPYGKSDVWWS  
FGVLLYEMLAGQPPFDGEDEEELFQAIMEQTVTPKSLSREAVAICKGFLTKEHPGKRLGS  
GPDGEPTIRAHGFFRWIDWERLERLEIPPPFRPRPCGRSGENFDKFFTRAAPALTPDRL  
VLASIDQADFQGFYVNPDFVHPDARSPTSPPVPVPM

>sp|P24723|KPCL\_HUMAN Protein kinase C eta type OS=Homo sapiens GN=PRKCH PE=1 SV=4

MSSGTMKFNGYLVRVIGEAVGLQPTRWSLRHSLFKKGHQLDPYLTVSVDQVRVGQTSTK  
QKTNKPTYNEEFCANVTGGHLELAVFHETPLGYDHFVANCTLQFQELLRTTGASDTFEG  
WVDELEPEGKVFFVITLTGSFTEATLQRDRIFKHFTKRQRAMRRRVHQINGHKFMATYLR  
QPTYCSHCREFIWGVFGKQGYQCQVCTCVVHKRCHHLIVTACTCQNNINKVDSKIAEQRF  
GINIPHKFSIHNYKVPTFCDHCGSLLWIMRQGLQCKICKMNVHIRCQANVAPNCGVNAV  
ELAKTLAGMGLQPGNISPTSKLVSRSTLRRQGKESKEGNGIGVNSSNRLGIDNFEFIRV  
LGKGSFGKVMLARVKETGDLYAVKVLKKDIVLQDDDVECTMTEKRILSLARNHPFLTQLF  
CCFQTPDRLFFVMEFVNGGDLMFHIQKSRRFDEARARFYAAEIIISALMFLHDKGIIYRDL  
KLDNVLLDHEGHCKLADFGMCKEGICNGVTTATFCGTPDYIAPEILQEMLYGPAVDWWAM  
GVLLYEMLCGHAPFEAENEDDLFEAILNDEVVYPTWLHEDATGILKSFMTKNPTMRLGSL  
TQGGEHAILRHPFFKEIDWAQLNHRQIEPPFRPRIKSREDVSNFDPDFIKEEPVLTPIDE  
GHLPMINQDEFNRFSYVSPELQP

>sp|Q14558|KPRA\_HUMAN Phosphoribosyl pyrophosphate synthase-associated protein 1 OS=Homo sapiens GN=PRPSAP1 PE=1 SV=2

MNAARTGYRVFSANSTAACTELAKRITERLGAELGKSVVYQETNGETRVEIKESVRGQDI  
FIIQTIIPRDVNTAVMELLIMAYALKTACARNIIGVIPYFPYSKQSKMRKRGSI VCKLLAS

MLAKAGLTHIITMDLHQKEIQGFFSFPVDNLRASPFLQYIQEEIPNYRNAVIVAKSPDA  
AKRAQSYAERLRLGLAVIHGEAQCTELDMDDGRHSPPMVKNATVHPGLELPLMMAKEKPP  
ITVVGDVGGRIAIIVDDIIDDVESFVAAAEILKERGAYKIYVMATHGILSAEAPRLIEES  
SVDEVVVTNTVPHEVQKLQCPKIKTVDISLILSEAIRRIHNGESMAYLFRNITVDD

>sp|Q86UP2|KTN1\_HUMAN Kinectin OS=Homo sapiens GN=KTN1 PE=1 SV=1

MEFYESAYFIVLIPSIVITVIFLFFWLFMKETLYDEVLAQKQREKLIPTKTDKKKAEKK  
KNKKKEIQGNLHESDSSEVPRDFKLSDALAVEDDQVAPVPLNVVETSSSVRERKKKEKK  
QKPVLEEQVIKESDASKIPGKKVEPVVTKQPTPPSEAAASKKKPGQKKSNGSDDQDKK  
VETLMVPSKRQEALPLHQETKQESGSGKKKASSKKQKTENVFVDEPLIHATTYIPLMDNA  
DSSPVVDKREVIDLLKPDQVEGIQKSGTKKLTETDKENAEVKFKDFLLSLKTMFSEDE  
ALCVVDLLKEKSGVIQDALKKSSKGELTTLIHQLQEKDKLLAAVKEDAAATKDRCKQLTQ  
EMMTEKERSNVVITRMKDRIQTLEKEHNVFQNKIHVSQYQETQQMQMKFQQVREQMEAEIA  
HLKQENGILRDAVSNTTNQLESKQSAELNKLQDYARLVNELTEKTGKLQQEEVQKKNAE  
QAATQLKVQLQEAERRWEEVQSYIRKRTAEHEAAQQDLQSKFVAKENEVQSLHSLTDTL  
VSKQQLQRLMQLMESEQKRVNKEESLQMQVQDILEQNEALKAQIQFHSQIAAQTSASV  
LAEELHKVIAEKDKQIKQTEDSLASERDRLTSKEEELKDIQNMNFKLKAQVQKLQALANE  
QAAAAHELEKMQQSVYVKDDKIRLLEEQLQHEISNMEEFKILNDQNKALKSEVQKLQTL  
VSEQPNKDVVEQMEKCIQEKDEKLKTVEELLETLGLIQVATKEEELNAIRTENSSLTKEVQ  
DLKAKQNDQVSFASLVEELKKVIEKDGKIKSVEELLEAECLKVANKEKTVQDLKQEIKA  
LKEEIGNVQLEKAQQLSITSKVQELQNLKKGKEEQMNTMKAVLEEKEKDLANTGKWLQDL  
QEENESLKAHVQEAQHNLKEASSASQFEELEIVLKEKENELKRLEAMLKERESDLSSKT  
QLLQDVQDENKLFKSQIEQLKQQNYQQASSFPHEELLKVISEREKEISGLWNELDSLKD  
AVEHQRKKNNDLREKNWEAMEALASTEKMLQDKVNKTSKERQQQVEAVELEAKEVLKKLF  
PKVSVPSNLSYGEWLHGFEKKAKECMAGTSGSEEVKVLEHLKKEADEMHTLLQLECEKYK  
SVLAETEGILQKLQRSVEQEENKWKVKVDESHKTIKMQSSFTSSEQELERLRSENKDIE  
NLRREHLEMELEKAEMERSTYVTEVRELKDLLTELQKKLDDSYSEAVRQNEELNLLKA  
QLNETLTKLRTEQNERQKVAGDLHKAQQSLELIQSKIVKAAGDTTVIENSVDVSPETESSE  
KETMSVSLNQTVTQLQQLQAVNQQLTKEKEHYQVLE

>sp|P01599|KV117\_HUMAN Immunoglobulin kappa variable 1-17 OS=Homo sapiens GN=IGKV1-17  
PE=1 SV=2

MDMRVPAQLLGLLLLWFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGIRNDLGWYQQ  
KPGKAPKRLIYAASSLQSGVPSRFSGSGSGTEFTLTISLQPEDFATYYCLQHNSYP

>sp|P11279|LAMP1\_HUMAN Lysosome-associated membrane glycoprotein 1 OS=Homo sapiens  
GN=LAMP1 PE=1 SV=3

MAAPGSARRPLLLLLLLLLLGLMHCASAAMFMVKNNGTACIMANFSAAFSVNYDTKSGP  
KNMTFDLPDATVVLNRSSCGKENTSDPSLVIAFGRGHTLTNLFTRNATRYSVQLMSFVY  
NLSDTHLFPNASSKEIKTVESITDIRADIDKKYRCVSGTQVHMNNVTVTLHDATIQAYLS  
NSSFSRGETRCEQDRPSPTTAPPAPPSPSPVPKSPSVDKYNVSGTNGTCLLASMGLQL  
NLTYERKDNTTVTRLLNINPNKTSASGSCGAHLVTLELHSEGTTVLLFQFGMNASSSRFF  
LQGIQLNTILPDARDPAFKAANGSLRALQATVGNSYKCAEEHVRVTKAFSVNIFKVWVQ  
AFKVEGGQFGSVEECLLDENSMLIPIAVGGALAGLVLIIVLIVGRKRSHAGYQTI

>sp|Q9BRS8|LARP6\_HUMAN La-related protein 6 OS=Homo sapiens GN=LARP6 PE=1 SV=1

MAQSGGEARPGPKTAVQIRVAIQEAEDVDELEDEEEGAETRGAGDPARYLSPGWGSASEE  
EPSRGHSGTTASGGENEREDLEQEWKPPDEELIKKLVQIEFYFSDENLEKDAFLLKHVR

RNKLGYVSVKLLTSFKVKHLTRDWRTTAHALKYSVVLELNEDHRKVRRTTPVPLFPNEN  
LPSKMLLVYDLYLSPKLWALATPQKNRQVEKVMHLLKLFGTFGVISSVRILKPGRELP  
PDIRRISSRYSQVGTQECAIVEFEEVEAAIKAHEFMITESQKGKEMKAVLIGMKPPKKK  
AKDKNHDEEPTASIHNLKSLNKRVEELQYMGDESSANSSSDPESNPTSPMAGRRHAATNK  
LSPSGHQNLFLSPNASPCTSPWSSPLAQRKGVSRKSPLAEEGRLNCSTSPEIFRKCMDYS  
SDSSVTPSGSPWVRRRRQAEMGTQEKSPGTSPLLSRKMQTADGLPVGVLRLPRGPDNTRG  
FHGHERSRACV

>sp|Q8MH63|LAT1N\_HUMAN Putative L-type amino acid transporter 1-like protein MLAS OS=Homo sapiens GN=SLC7A5P1 PE=5 SV=1

MAGAGPKRRALAAPVAEEKEEAREKMLASKRADGAAPAGEGEGVTLQRNITLLNGVAIIV  
GAIIGSGIFVTPTGVLKEAGSPGLALVMWAACGVFSIVGALCYAELGTTISKSGGDYAYM  
LDVYGSLPAFLKLWIELLIRPSSQYIVALVFATYLLKPLFPSCPVPPEEAAKLMAACHCVH

>sp|Q01650|LAT1\_HUMAN Large neutral amino acids transporter small subunit 1 OS=Homo sapiens GN=SLC7A5 PE=1 SV=2

MAGAGPKRRALAAPAAEEKEEAREKMLAAKSADGSAPAGEGEGVTLQRNITLLNGVAIIV  
GTIIGSGIFVTPTGVLKEAGSPGLALVWAACGVFSIVGALCYAELGTTISKSGGDYAYM  
LEVYGSLPAFLKLWIELLIRPSSQYIVALVFATYLLKPLFPTCPVPPEEAAKLVAACLCVL  
LLTAVNCYSVKAATRVQDAFAAAKLLALALIILLGFVQIGKGDVSNLDPNFSFEGTKLDV  
GNIVLALYSGLFAYGGWNYLNFVTEEMINPYRNLPLAIIISLPITLVYVLTNLAYFTTL  
STEQMLSSEAVAVDFGNHYLGVMSWIIPVFVGLSCFGSVNGSLFTSSRLFFVGSREGHLP  
SILSMIHPQLLTPVPSLVFTCVMTLLYAFSKDIFSVINFFSFFNWLCVALAIIIGMIWLRH  
RKPELERPIKVNALPVPFFILACLFLIAVSFWKTPVECGIGFTIILSGLPVYFFGVWWKN  
KPKWLLQGIFSTTVLCQKLMQVVPQET

>sp|Q8IWV1|LAX1\_HUMAN Lymphocyte transmembrane adapter 1 OS=Homo sapiens GN=LAX1 PE=1 SV=1

MDGVTPTLSTIRGRTLESSTLHVTTPRSLDRNKDQITNIFSGFAGLLAILLVAVFCILWN  
WNKRKKRQVPYLRVTVMPLLTLPQTRQRAKNIYDILPWRQEDLGRHESRSMRIFSTESLL  
SRNSESPEHVPSQAGNAFQEHTAHIHATEYAVGIYDNAMVPQMCGNLTPSAHCINVRASR  
DCASISSEDSHDYVNVPTAEEIAETLASTKSPSRNLFVLPSTQKLEFTEERDEGCGDAGD  
CTSLYSPGAEDSDSLNNEGSSQISNDYVNMGTGLDSAIQERQLWVAFQCCRDYENVPAA  
DPGSGQQQAEDVPSSNIGHVEDKTDDPGTHVQCVRKTFASGDYADFQPFQTSEDQSMK  
HREEMSNEDSSDYENVLTAKLGGRDSEQGPGTQLLPDE

>sp|Q6UX15|LAYN\_HUMAN Layilin OS=Homo sapiens GN=LAYN PE=2 SV=1

MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQPVCRRGTQRPCYKVIYFHDTSR  
RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIEENLLPSDGDWIGLRRREEKQSNSTA  
CQDLYAWTDGSIQFRNWYVDEPSCGSEVCVVMYHQPSAPAGIGGPYMFQWDDRCNMKN  
NFICKYSDEKPAVPSREAEGEETELTTPVLPEETQEEDAKKTFKESREAAALNLAYILIPS  
IPLLLLLLVVTTVCWVWICRKRKREQPDSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE  
ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSES GFVTLSVESGFVTNDIYE  
FSPDQMGRSKESGWVENEIYGY

>sp|P52954|LBX1\_HUMAN Transcription factor LBX1 OS=Homo sapiens GN=LBX1 PE=2 SV=2

MTSKEDGKAAPGEERRRSPDLHLPANSNKPLTPFSIEDILNKPSVRRSYSLCGAAHLL  
AAADKHAQGGLPLAGRALLSQTSPLEELASKTFKGLEVSVLQAAEGRDGMTIFGQRQ  
TPKRRRSRTAFTNHQIYELEKRFLYQKYLSPADRDQIAQQLGLTNAQVITWFQNRRAKL

KRDLEEMKADVESA KKLGP SGQMDI VALAELEQNSEATAGGGGGCGRAKSRPGSPVLPPG  
APKAPGAGALQLSPASPLTDQPASSQDCSEDEEEDVIDDD

>sp|Q5VSP4|LC1L1\_HUMAN Putative lipocalin 1-like protein 1 OS=Homo sapiens GN=LCN1P1 PE=5  
SV=1

MKPLLLAISLSLIAALQAHLLASDEEIQDVSGTWYLKAMTVDRELPEMNLESVTPMTLT  
ILEGGNLEAKATMLISGQCQEVKVI LKTDPEPGKYTANRGKHVAYIIRSHMKDHYIFYCE  
GRDPENNLEALEDFEKAAGARGLSTESILIPRQSETCSPGSD

>sp|O95447|LCA5L\_HUMAN Lebercilin-like protein OS=Homo sapiens GN=LCA5L PE=1 SV=1

MSLADLTKTNIDEHFFGVALENNRRSAACKRSPGTGDFSRNSNASNKSVDYSRSQCSCGS  
LSSQYDYSEDFLCDCSEKAINRNYLKQPVVKEKEKKYNVSKISQSKGQKEISVEKKHTW  
NASLFNSQIHMQRRDAMAHRI LSARLHKIKGLKNELADMHHKLEAILTENQFLKQLQL  
RHLKAIGKYENSQNNLPQIMAKHQNEVKNLRQLLRKSQEKERTLSRKLRETD SLLKTKD  
ILQALQKLS EDKNLAEREELTHKLSIITTKMDANDKKIQSLEKQLRLNCRAFSRQLAIET  
RKTAAQTATKTLQVEVKHLQKQLKEKDRELEIKNIYSHRILKNLHDTEDYPKVSSTKSV  
QADRKILPFTSMRHQGTQKSDVPPLTTKGKKATGNIDHKEKSTEINHEIPHCVNKL PKQE  
DSKRKYEDLSGEEKHLEVQILLENTGRQDKKEDQEKKNIFVKEEQELPPKIIIEVIHPER  
ESNQEDVLVREKFKRSMQRNGVDDTLGKGTAPYTKGPLRQRRHYSFTEATENLHHGLPAS  
GGPANAGNMRYSHSTGKHLNREEMELEHSDSGYEPSFGKSSRIKVKDTTFRDKKSSLME  
ELFGSGYVLKTDQSSPGVAKGSEEPLQSKESHPLPPSQASTSHAFGDSKVTVVNSIKPSS  
PTEGKRKIII

>sp|Q5TA79|LCE2A\_HUMAN Late cornified envelope protein 2A OS=Homo sapiens GN=LCE2A PE=1  
SV=1

MSCQQNQQCQPPPKCPPKCPPKCPPKCRPQCPAPCPPPVSSCCGPSSGGCCGSSSGGCC  
SSGGGGCCLSHHRPRLFHRHRHQSPDCCECEPSGGSGCCHSSGDCC

>sp|Q5TA76|LCE3A\_HUMAN Late cornified envelope protein 3A OS=Homo sapiens GN=LCE3A PE=2  
SV=1

MSCQQNQQCQPPPKCPAKSPAQCLPPASSCAPSSGGCGPSSERSCCCLSHHRCRRSHRC  
RCQSSNSCDRGSQQGSSSCGHSSAGCC

>sp|P06239|LCK\_HUMAN Tyrosine-protein kinase Lck OS=Homo sapiens GN=LCK PE=1 SV=6

MGCGCSSHPEDDWMENIDVCENCHYPIVPLDGKGTLLIRNGSEVRDPLVTYEGSNPPASP  
LQDNLVIALHSYEP SHDGLGFEGEQLRILEQSGEWWKAQSLTTGQEGFIPNFVAKAN  
SLEPEPWFFKNLSRKDAERQLLAPGNTHGSFLIRESESTAGSFSLVRDFDQNGEVVKH  
YKIRNLNNGGFYISPRITFPGLHELVRHYTNASDGLCTRLSRPCQTQKPQKPWWEDEWEV  
PRETLKLVERLGAGQFGEVWMGYNGHTKVAVKSLKQGSMPDAFLAEANLMKQLQHQR  
VRLYAVVTQEPIYIIITEYMENGLVDFLKTTPSGIKLTINKLLDMAAQIAEGMAFIEERNY  
IHRDLRAANILVSDTLSCKIADFGLARLIEDNEYTAREGAKFPIKWTAP EAINYGTFTIK  
SDVWSFGILLTEIVTHGRIPYPGMTNPEVIQNLERGYMVRPDNCP EELYQLMRLCWKER  
PEDRPTFDYLRSVLEDDFTATEGYQPQP

>sp|Q9BYZ2|LDH6B\_HUMAN L-lactate dehydrogenase A-like 6B OS=Homo sapiens GN=LDHAL6B PE=1  
SV=3

MSWTVPVVRASQRVSSVGANFLCLGMALCPRQATRIPLNGTWLFTPVSKMATVKSELIER  
FTSEKPVHHSKVSIIIGTGSVGMACAISILLKGLSDELALVDLDEDKLKGETMDLQHGS PF  
TKMPNIVCSKDYFVTANSNLV IITAGARQEKGETRLNLVQRNVAIFKLMISSIVQYSPHC  
KLIIVSNPVDILTYAWKLSAFPKNRIIGSGCNLDTARFRFLIGQLGIHSESCHGWILG

EHGDSSVPVWSGVNIAGVPLKDLNSDIGTDKDEQWKNVHKEVTATAYEIIKMGYTSWA  
IGLSVADLTESILKNLRRHPVSTIIKGLYGIDEEVFLSIPCILGENGITNLIKIKLTPE  
EEAHLKKS AKTLWEIQNK LKL

>sp|Q6ICC9|LDOCL\_HUMAN Protein LDOC1L OS=Homo sapiens GN=LDOC1L PE=2 SV=1

MVQPQTSKAESPALAAASPNAQMDDVIDTLTSLRLTNSALRREASTLRAEKANLTNMLESV  
MAELTLRTRARIPGALQITPPISSITSNGTRPMTTPPTSLPEPFGDPGRLAGFLMQMD  
RFMIFQASRFPGEAERVAFLVSRLTGAEKWAIPHMQPDSPLRNQYQGF LAELRRYKSP  
LRHARRAQIRKTSASNRAVRERQMLCRQLASAGTGPCPVHPASNGTSPAPALPARARNL

>sp|A8MUM7|LEG16\_HUMAN Galectin-16 OS=Homo sapiens GN=LGALS16 PE=2 SV=1

MSFLTVPYKLPVSLSVGSCV I IKGTLIDSSINEPQLQVDFYTEMNEDSEIAFHLRVHLGR  
RVVMNSREFGIWMLEENLHYVPFEDGKPFDLRIYVCLNEYEVKVNGEYIYAFVHRIPPSY  
VKMIQVWRDVS LDSVLVNNGRR

>sp|P56470|LEG4\_HUMAN Galectin-4 OS=Homo sapiens GN=LGALS4 PE=1 SV=1

MAYVPAPGYQPTYNPTLPYYQPIPGGLNVGMSVYIQGVASEHMKRFFVNFVVGQDPGSDV  
AFHFNPRFDGWDKVVFNLTQGGKKGSEERKRSMPFKKGA AFELVFIVLAEHYKV VVNGNP  
FYEYGHRLPLQMVTHLQVDGDLQLQSINFIGGQPLRPQGPPMPPYPGPGHCHQQ LNSLP  
TMEGPPTFNPPVPYFGRLQGGLTARRTII IKGYPPTGKSFAINFKV GSSGDIALHINPR  
MGNGTVVRNSLLNGSWGSEKKITHNPFPGQGFFDL SIRCGLDRFKVYANGQH LFDFAHR  
LSAFQRVDTLEIQGDVTL SYVQI

>sp|Q3ZCW2|LEGL\_HUMAN Galectin-related protein OS=Homo sapiens GN=LGALSL PE=1 SV=2

MAGSVADSDAVVKLDDGHLNSSLSPVQADVYPRLIVPFCGHIKGM RPGKKVLVMGIV  
DLNPESFAISLTCGSEDPPADVAIELKAVFTDRQLLRNSCISGERGEEQSAIPYFPFIP  
DQPFRVEILCEHPRFRVFDGHQLFDYHRIQTL SAIDTIKINGDLQITKLG

>sp|Q9Y5L5|LENEP\_HUMAN Lens epithelial cell protein LEP503 OS=Homo sapiens GN=LENEP PE=2  
SV=1

MQPRTQPLAQTL PFFLGAPRDTGLRVPVIKMG TGWEGFQRTLKEVAYILLCCWCIKELL  
D

>sp|Q96B70|LENG9\_HUMAN Leukocyte receptor cluster member 9 OS=Homo sapiens GN=LENG9 PE=2  
SV=2

MGRPPCGATSSARRACQFPAPMAAAAREPELPQEAPATEPAPPPACRFFLEGR CRFGARC  
RQPHPGAPAPPGREAQPEAGAKKPLRTAADVIQRIRWDPR LDPADFSVGYVDRFLGVRE  
EPFSAFCWDQPLAALGPGVLAVPQHRVRRFRFHGRLVWDRASRTDLVFGSGSAAGRGTI  
LDAPNTEGAHGAEGAEWTLAGTGQEAQAAPKRGSTRPLCTGHQEPGVEEPGELEAAQERA  
LGTAADLGT LAPRGRLAGVTEEALKPTAATRTLLGGKEAQALGVPGGSAETTEAEWGPA  
AWPEDKRARLSVAAPCQPRPTHFVALMVTEPGLQAEVTKAQEYLVHVAPHCANFLVPSQN  
LHLTLALLRLAGAGEEAAAIGALRRALLAPGLNAPPRLSFRKLVLLGPHVLCAPPSPTLE  
SMAQVLSQRLEAEGSLTLQSPGQLHPHLTVAKVPHGSQVHL PKLEFTLSQEVGCQPLQTL  
WLCRIGRTGGPFQPLAEIRLE

>sp|O43261|LEU1\_HUMAN Leukemia-associated protein 1 OS=Homo sapiens GN=DLEU1 PE=1 SV=2

MRPCIWIHVHLKPPCRLVELLPFSSALQGLSHLSLGTTLPVILPERNEEQNLQELSHNAD  
KYQMGDCCKEEIDDSIFY

>sp|P43626|KI2L1\_HUMAN Killer cell immunoglobulin-like receptor 2DL1 OS=Homo sapiens  
GN=KIR2DL1 PE=1 SV=1

MSLLVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVMFEHFLL

HREGMFNDTLRLIGEHDGVSKANFSISRMTQDLAGTYRCYGSVTHSPYQVSAPSDPLDI  
VIIGLYEKPSLSAQPGPTVLAGEVNTLSCSSRSSYDMYHLSREGEAHERRLPAGPKVNGT  
FQADFLPGPATHGGTYRCFGSFHDSPYEWSKSSDLLVSVTGNSNSWSPTEPSSKTGN  
PRHLHLIGTSVVIILFILLFLLHRWC SNKKNAAVMDQESAGNRTANSEDSDEQDPQEV  
TYTQLNHCVFTQRKITRPSQRPKTPPTDIIIVYTELPNAESRSKVVSCP

>sp|Q14952|KI2S3\_HUMAN Killer cell immunoglobulin-like receptor 2DS3 OS=Homo sapiens  
GN=KIR2DS3 PE=2 SV=1

MSLMVISMACVGFFWLQGAWPHEGFRRKPSLLAHPGRLVKSEETVILQCWSDVMFEHFLL  
HREGTFNDTLRLIGEHDGVSKANFSIGRMRQDLAGTYRCYGSVPHSPYQFSAPSDPLDI  
VITGLYEKPSLSAQPGPTVLAGESVTLSCSSWSSYDMYHLSTEGEAHERRFSAGPKVNGT  
FQADFLPGPATQGGTYRCFGSFHDSPYEWSKSSDLLVSVTGNSNSWSPTEPSSKTGN  
PRHLHLVIGTSVVKLPFTILLFLLHRWCSDKKNASVMDQGPAGNRTVNREDSDEQDHQE  
VSYA

>sp|P43630|KI3L2\_HUMAN Killer cell immunoglobulin-like receptor 3DL2 OS=Homo sapiens  
GN=KIR3DL2 PE=2 SV=1

MSLTVVSMACVGFLLQGAWPLMGGQDKPFLSARPSTVVPRGGHVALQCHYRRGFNNFML  
YKEDRSHVPIFHGRIFQESFIMGVPTPAHAGTYRCGRSRPHSLTGWSAPSNPLVIMVTGN  
HRKPSLLAHPGPLLKSGETVILQCWSDVMFEHFLLHREGISEDPSRLVGQIHDGVSKANF  
SIGPLMPVLAGTYRCYGSVPHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVQAGENV  
TLSCSSWSSYDIYHLSREGEAHERRLRAVPKVNRTFQADFLPGPATHGGTYRCFGSFRAL  
PCVWSNSSDLLVSVTGNSSSWSPTEPSSKSGICRHLHLVIGTSVVIIFLILLFLL  
YRWCSNKKNAAVMDQEPAGDRTVNQRDSDEQDPQEVTYAQLDHCVFIQRKISRPSQRPKT  
PLTDSVYTELPNAEPRSKVVSCPAPQSGLEGVF

>sp|P46013|KI67\_HUMAN Proliferation marker protein Ki-67 OS=Homo sapiens GN=MKI67 PE=1  
SV=2

MWPTRRLLVTIKRSGVDGPHFPLSLSTCLFGRGIECDIRIQLPVVSKQHCKIEIHEQEAIL  
HNFSSNTPTQVNGSV IDEPVRCLKHGDVITI IDRSFRYENESLQNGRKSTEFPRKIREQEP  
ARRVSRSSFSSDPDEKAQDSKAYSKI TEKVSGNPQVHIKNVKEDSTADDSKDSVAQGTT  
NVHSSHEHAGRNGRNAADPISGDFKEISSVKLVSRYGELKSVPTTQCLDNSKKNESPFWKL  
YESVKKELDVKSQKENVLQYCRKSGLQTDYATEKESADGLQGETQLLVSRKSRPKSGGSG  
HAVAEPASPEQELDQNKKGKRDVESVQTPSKAVGASFPLYEPAKMKTVPVYSQQQNSPQK  
HKNKDLTYTGRRESVNLGKSEGFKAGDKTL TPRKLSTRNRTPAKVEDAADSATKPENLSS  
KTRGSIPTDVEVLPTETEIHNPEFLTTLWTQVERKIQKDSLKPEKLGTTAGQMCSGLPG  
LSSVDINNFGDSINESEGIPLKRRRVSFGGHLRPELFDENLPNTPLKRGEAPT KRKSLV  
MHTPPVLKKIIKEQPQPSGKQESGSEIHVEVKAQSLVISPPAPSPRKTTPVSDQRRRSCK  
TAPASSSKSQTEVPKRGRKSGNLPSKRVSISRSQHDILQMICKRRSGASEANLIVAKS  
WADVVKLGAKQTQTKVIKHGPQRSMNKRQRRPATPKKPVGEVHSQFSTGHANSPCTIIIG  
KAHTEKVHVPPARPYRVLNFI SNQKMDFKEDLSGIAEMFKTPVKEQPQLTSTCHIAISNS  
ENLLGKQFQGTDSGEEPLLPTSESFGGNVFFSAQNAAKQPSDKCSASPPLRRQCIRENGN  
VAKTPRNTYKMTSLETKTSDETETEPSKTVSTANRSGRSTEFNRNIQKLPVESKSEETNTEI  
VECILKRGQKATLLQQRREGEMKEIERPFETYKENIELKENDEKMKAMKRSRTWGQKCAP  
MSDLTDLKSLPDTELMKDTARGQNLQTQDHAKAPKSEKGKITKMPCQSLQPEPINTPTH  
TKQQLKASLGKVGVEKELLAVGKFTRTSGETHTHREPAGDGKSIRTFKESPKQILDPA  
RVTGMKKWPRTPKEEAQSLEDLAGFKELFQTPGPSEESMTDEKTTKIACKSPPPESVDTP

TSTKQWPKRSLRKADVEEEFLALRKLTSPSAGKAMLT PKPAGGDEKDIKAFMGTPVQKLDL  
AGTLPGSKRQLQTPKEKAQALEDLAGFKELFQTPGHTEELVAAGKTTKIPCDSPQSDPVD  
TPTSTKQRPKRSIRKADVEGELLACRNLMP SAGKAMHTPKPSVGEEKDIIIFVGTPVQKL  
DLTENLTGSKRRPQTPKEEAQALEDLTGFKELFQTPGHTEEAVAAGKTTKMPCESSPPES  
ADTPTSTRRQPKTPLEKRDVQKELSALKKLTQTSGETTHTDKVPGGEDKSINAFRETAKQ  
KLDPAASVTGSKRHPKTKEKAQPLEDLAGLKELFQTPVCTDKPTTHEKTTKIACRSQDPD  
VDTPTSSKPQSKRSLRKVDVEEEFFALRKRTPSAGKAMHTPKPAVSGEKNIYAFMGTPVQ  
KLDLTENLTGSKRRLQTPKEKAQALEDLAGFKELFQTRGHTEESMTNDKTAKVACKSSQP  
DPDKNPASSKRRLKTS LGKVGVEELLAVGKLTQTSGETTHTEPTGDGKSMKAFMESP  
KQILDSAASLTGSKRQLRTPKGKSEVPEDLAGFIELFQTPSHTKESMTNEKTTKVSYRAS  
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EKKPMKTSPEMDIQNPDDGARKPIPRDKVTENKRC LRSARQNESSQPKVAEESGGQKSAK  
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>sp|Q96FN5|KIF12\_HUMAN Kinesin-like protein KIF12 OS=Homo sapiens GN=KIF12 PE=1 SV=3  
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EVAFRFGAVLDAARTQEDVFRACGVRR LGELALRGFSCTVFTFGQTGSGKTYTLTGPPPQ  
GEGVPVPPSLAGIMQRTFAWLLDRVQHLGAPVTLRASYLEIYNEQVRDLLSLGSPRPLPV  
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ARPPPWAPPCSPGSAKCPRERSHSDWTQTRVLAEMLTEEEVVPAPPLPVRPPKTSPLGR  
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>sp|Q5T7B8|KIF24\_HUMAN Kinesin-like protein KIF24 OS=Homo sapiens GN=KIF24 PE=1 SV=2

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LSDFSANEQKSTYLKVLHMLPDDSQYHTKTGILNATAGDSYVQTEISTSLFSPNYLSAI  
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HRRALDHSCSPSKGPVDWSRENSTSSGSPRDSLAEKPYCSQVDFIYRQERGGGSSFDL  
RKDASQSEVSGENEGNLPSPEDGFTISLSHVAVPGSPDQRDTVTTPLEVSADGPIQVT  
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VAESTGGPVVSHTPVSGDQEAALPVSSATRHLLWSSSPDNKPGDLPALSPSPIRQHPA  
DKLPSREADLGEACQSRETVLFSHEHMGSEQYDADAETGLDGSWGFPGKPFTHHMGVP  
HSGPTLTPTGSSDVADQLWAQERKHPTRLGWQEFGLSTDPIKLPCSENVTWLKPRPIS  
RCLARPSSPLVPSCSPKTAGTLRQPTLEQAQQVVIRAHQEQLDEMAELGFKEETLMSQLA  
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>sp|B7ZC32|KIF28\_HUMAN Kinesin-like protein KIF28P OS=Homo sapiens GN=KIF28P PE=3 SV=2

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HNGFQRDKDGLISADPSRKFAQRDVFHDLGRGILDSAWQGYNATLLAYGQTGSGKSYS  
MIGFGCKQGIIPTVCEELFRAIENQGRNQEHVQMFMSLEIYKEIIRDLLSRTKKPGLRI  
REDQQLGFYVEGLKSVPCENYAQIERLMEQGTKIRTTASTNMNASSSRSHLVITIQFKQV  
FLDRDLTKQSSINLVDLARSERQKSSGSEGDRLEGGSCVNLSTNLGSVISVLADAAMGK  
KVLHIPYRDSVLTKLLQALGGSRTALVAAVSPADICYEETLSTLRYAERERKIRNRAV  
ANTWTLMRKSRAENSKLLPMMTFPHLLNLEDPQLTRVLKYFIQAGTQPAPCPRPALSP  
HPALRISDKHASFTNADGKVTVTPHCKKVAVNGVPITTRTKLQHLDRILGSNSTYLYV  
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LVSEANQMSEEPKGLNMELKVNKLASSDSRGYDLQKEVLVKVTHHGSHEVWIWSKAKFI  
NRKFLMQELYQRFLDGDHGPVARDPDPFVDPVEVRLGSAHIWLQSLAYCMKLEEQVEFL  
NCDGLEEAVLHTCIAPCSPTGQTHGEEDVVIDPLELLGKRMDFQIHIVRCLGVNWMKEDA  
KRGTTQIGYRIYDLNPTIYTKPVWKSVPNIETVQFAALTASQEFNLNLRNALIVDLWG  
LQEGCTELSCSQLGLMVTGEGHILVDTKKISTVKDISQAASNQIPELYLKLKLEQETEP  
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RELAKALKVFYQSMNTARGQLFRLRRHPPEVDQMLRPFIHQRSQMFKDLGDLRESSLWT  
LKMTLLL

>sp|O14782|KIF3C\_HUMAN Kinesin-like protein KIF3C OS=Homo sapiens GN=KIF3C PE=1 SV=3

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DAVYDASSKQADLYDETVRPLIDSVLQGFNGTVFAYGQTGTGKTYTMQGTWVEPELRGVI  
PNAFEHIFTHISRSQNNQYLVRASYLEIYQEEIRDLLSKEPGKRLELKENPETGVYIKDL  
SSFVTKNVKEIEHVMNLGNQTRAVGSTHMNEVSSRSHAFIITVECSERGSQGQDHIRVG  
KLNLVDLAGSERQNKAGPNTAGGAATPSSGGGGGGGGGGGAGGERPKEASKINLSLSAL  
GNVIAALAGNRSTHIPYRDSKLTRLLQDSLGGNAKTIMVATLGPASHSYDESLTLRFAN  
RAKNIKNKPQVNEDPKDTLLREFQEEIARLKAQLEKRGMLGKRPRRKSRRKKAVSAPPG  
YPEGPVIEAWVAEEEDDNNNNHRRPPQPILESALAKNMENYLQEQKERLEEEKAAIQDDRS  
LVSEKQKLLKEEKMLEDLRREQQATELLAAKYKAMESKLLIGGRNIMDHTNEQQKMLE  
LKRQEIAEQRREREMQEMMLRDEETMELRGTYTSLQQEVEVKTKKLKLYAKLQAVKA  
EIQDQHDEYIRVRQDLEEAQNEQTRELKLKYLI IENFIPPEEKNKIMNRLFLDCEEEQWK  
FQPLVPAGVSSSQMKKRPTSAVGYPKPI SQYARVAMAMGSHPRYRAENIMFLELDVSPPA  
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SASLRPATVADHE

>sp|Q2VIQ3|KIF4B\_HUMAN Chromosome-associated kinesin KIF4B OS=Homo sapiens GN=KIF4B PE=2  
SV=2

MKEEVKGIPVRVALRCRPLVPKEISEGCMCLSFVPGETQVVVGTDKSFTYDFVFDPCTE  
QEEVFNKAVAPLIGKIFKGYNATVLAYGQTGSGKTYSMGGAYTAEQENEPTVGIIPRVIQ  
LLFKEIDKKSDFEFTLKVSYLEIYNEEILDLLCPSREKAQINIREDPKEGIKIVGLTEKT  
VLVALDTVSCLEQGNSRTVASTAMNSQSSRSHAFITISIEQRKKS DNCSFRSKLHLVD  
LAGSERQKKTAEGRDLKEGININRGLLCLGNVISALGDDKKS FVPYRDSKLTRLLQDS  
LGGNSHTLMIACVSPADSNLEETLSTLRYADRARKIKNKPIVNIDPHTAELNHLKQVQQ  
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VACTAAAITAVEEEAQVETSPETSRSSDAFTTQHALLHQAQMSKEVVLENNALALKEALV  
RKMTQNDNQLQPIQFYQDNINKNLEVINLQKEKEELVRELQTAKKNVNQAKLSEHRHK  
LLQELEGQIADLKKKLNEQSKLLKKESTERTVSKLNQEIWMMKNQRVQLMRQMKEDAEK  
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QREVTDKRKETQSHGKEGIAARVRNWLGNIEVMVSTEEAKRHLNDLLEDKILAQDVVQ  
LKEKESRENPPPKLRKCTFSLSEVHGQVLESEDCITKQIESLETEMELRSAQIADLQQK  
LLDAESEDPRPKQCWENIATILEAKCALKYLIGELVSSKIHVTKLENSLRQSKASCADMQK  
MLFEEQNHFSEIETELQAEQVRMEQQHQEKVLYLVSQLQESQMAEKQLEKSASEKEQQLV  
STLQCQDEEEKMREVCENQQLQENEEIKQKLILLQVASRQKHLNDTLSPDSSFY  
IPPKPKPSRVKEKFLQSMQDIEDLYKCEHSVNEHEDGDGDGDSDEGDDEEWKPTKLKV  
SRKNIQGCSCKGWCGNKQCGCRKQKSDCGVDCSDPTKCRNRQGGKDSLGTVEQTQDSEG  
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>sp|Q12840|KIF5A\_HUMAN Kinesin heavy chain isoform 5A OS=Homo sapiens GN=KIF5A PE=1 SV=2

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QVYHACAMQIVKDVLAGYNGTIFAYGQTSSGKTHTEGKHLDPQLMGIIPRIARDIFNHI  
YSMDENLEFHIKVSFYFIYLDKIRDLLDVTKTNLVHEDKNRVFPVKGCTERFVSSPEEI

LDVIDEGKSNRHVAVTNMNEHSSRSHSIFLINIKQENMETEQKLSGKLYLVDLAGSEKVS  
KTGAEGAVLDEAKNINKSLSALGNVISALAEGTKSYVPYRDSKMTRILQDSLGGNCRTTM  
FICCPSSSYNDAETKSTLMFGQRAKTIKNTASVNLELTAEQWKKYKEKEKTKAQKETI  
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IRRLYKQLDDKDDEINQQSQLIEKLKQMLDQEELLVSTRGDNEKVQRELSHLQSENDAA  
KDEVKEVLQALEELAVNYDQKSQEVEEKSQQNQLLVDELSQKVATMLSLESELQRLQEV  
GHQRKRIAEVNLGMLKDLSEFSVIVNGEIKLPVEISGAIEEEFTVARLYISKIKSEVKS  
VVKRCRQLENLQVECHRKMEVTGRELSSCQLLISQHEAKIRSLTEYMQSVELKKRHLEES  
YDSLDELAKLQAEQTVHEVALKDKEPDTQDADEVKKALELQMESHREAHHRQLARLRDE  
INEKQKTIDELKDLNQKLQLELEKLQADYEKLKSEEHEKSTKLQELTFLYERHEQSKQDL  
KGLEETVARELQTLHNLKFLVQDVTTRVKKSAEMEPEDSGGIHSQKQKISFLENNLEQL  
TKVHKQLVRDNADLRCELPKLEKRLRATAERVKALEGALKEAKEGAMKDKRRYQQEVDRI  
KEAVRYKSSGKRGHSAQIAKPVRPGHYPASSPTNPYGTRSPECISYTNLSLFQNYQNLYLQ  
ATPSSSDMYFANSTSSGATSSGGPLASYQKANMDNGNATDINDNRSIDLPCGYEAEDQA  
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>sp|Q96AC6|KIFC2\_HUMAN Kinesin-like protein KIFC2 OS=Homo sapiens GN=KIFC2 PE=2 SV=1

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TSQLLALLAWLRSRGRQALLQGTQAPRVRPPSPDGSTSQEESPSHFTAVPGEPLGDET  
QGGQPLQLEEDQRAWQRLEQLILGQLEELKQQLQEEELGRLRLGVGATDSEKRVQHLT  
LENEALKQSLSLMRDLLHWGP GPPIRAPQEEAEALLELQGRLEAQTTEALRAQLGVQ  
EVQLQGLQALQQLQEQETEQNCRRELQMHGQLAGLRARMASLRQCGDLRGLVSTFTQS  
CQGSLSARGQVSWALGALSSGGPGTQLPEGQQGPPAGCPGRLPELKGNIIRVLCRLRPGT  
SSSLVSVEPGPGT VTTCYRGRHRRFRLDWVFPPDASQEEVFRELEPAVLSCLRGYSVCI  
FTYGGTGTGKTYSMEGPPDPGIVPRALQSLFREMAGRQHRVTLSMVEIYNEAVRDLLA  
PGPPERLAVRQPEGQGGIQAAGLTHWDVPNLETLHQMLKLGRSNRATAATAMNQSSRS  
HALVTLT LRAASPPRAPGTAGTLHLVDLAGSERARKAGAAGPPRGDPDGARRLREAQTIN  
RSLLALGGVMAALRAHRPHVPFRDSQLTRLLQPALGPGTTAVLLLQVGAGAGQVCACRSP  
PTRARPPAPLARRSPRGRISGRQAPSSSPTEVWKWSWGQPGAAGSRAPPGRLLPSAPT  
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>sp|Q9H0B6|KLC2\_HUMAN Kinesin light chain 2 OS=Homo sapiens GN=KLC2 PE=1 SV=1

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QRSEQAVAQLEEEKQHLLFMSQIRKLEDEDASPNEEKGDVPKDTLDDLPNEDEQSPAPSP  
GGGDVSGQHGGYEIPARLRTLHNLVIQYASQGRYEVAVPLCKQALEDLEKTSGHDPDVA  
TMLNILALVYRDQNKYKEAAHLLNDALAIREKTLGKDHPAVAATLNNLAVLYGKRKYKE  
AEPLCKRALEIREKVLGKFHPDVAKQLSNLALLCQNGKAEVEYYYRRALEIYATRLGP  
DDPNVAKTKNNLASCYLKQGKYQDAETLYKEILTRAHEKEFGSVNGDNKPIWMHAEEREE  
SKDKRRDSAPYGEYSWKACKVDSPTVNTTLRSLGALYRRQGKLEAAHTLED CASNRK  
QGLDPASQTKVVELLDKGSRRGDRRSSRDMAGGAGPRSESDLEDVGPTAEWNGDGSGL  
RRSGSFGKLRDALRRSSEMLVKKLQGGTPQEPPNPRMKRASSLNFLNKSVEEPTQPGGTG  
LSDSRTLSSSSMDLSRRSSLVG

>sp|Q9BQ90|KLDC3\_HUMAN Kelch domain-containing protein 3 OS=Homo sapiens GN=KLHDC3 PE=2  
SV=1

MLRWTVHLEGGPRRVNHAAVAVGHRVYSFGGYCSGEDYETLRQIDVHIFNAVSLRWTKLP  
PVKSAIRGQAPVVPYMYRGHSTVLIDDTVLLWGGRNDTEGACNVLYAFDVNTHKWFTPRV  
SGTVPGARDGHSACVLGKIMYIFGGYEQQADCFNSNDIHKLDTSTMTWTLICTKGSPARWR  
DFHSATMLGSHMYVFGGRADRFPGFHSNNEIYCNRIRVFDTRTEAWLDCPPTPVLPEGRR  
SHSAFGYNGELYIFGGYNARLNRHFHDLWKFNPVSFTWKKIEPKGKGPCPRRRQCCCIVG  
DKIVLFGGTSPSPEEGLGDEFDLIDHSDLHILDFSPSLKTLCKLAVIQYNLDQSCLPHDI  
RWELNAMTTNSNISRPVSSHG

>sp|Q9P2G3|KLH14\_HUMAN Kelch-like protein 14 OS=Homo sapiens GN=KLHL14 PE=1 SV=2

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LFSSHPPLGGGVGGDGLGAPKDQQQPPQQPSQQQPPPPQEEPSTSSSPDDKLLTSPR  
AINNLVLQGCSSIGLRLVLEYLTANVTLSLDTVEEVLVSILHIPQVTKLCVQFLNDQ  
ISVQNYKQVCKIAALHGLEETKKLANKYLVEDVLLNFEEMRALLDSLPPVSEELALFQ  
MSVLWLEHDRETRMQYAPDLMKRLRFALIPAPELVERVQSVDFMRTDPVCQKLLLDAMNY  
HLMPPFRQHCRQSLASRIRSNNKMLLVGGPDPRLPSNLVQYYDDEKKTWKILTIMPY  
NSAHHCVVEVENFLFVLGGEDQWNPNGKHSTNFVSRYDPRFNSWIQLPPMQERRASFYAC  
RLDKHLYVIGGRNETGYLSSVECYNLETNEWRYVSSLPQPLAAHAGAVHNGKIYISGGVH  
NGEYVPWLYCYDPMVDVWARKQDMNTKRAIHTLAVMNDRLYAIGGNHLKGFSHLDVMLVE  
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>sp|Q9NXS3|KLH28\_HUMAN Kelch-like protein 28 OS=Homo sapiens GN=KLHL28 PE=2 SV=2

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LKECCAFLESQLDPGNCIGISRFAETYGCRDLYLAATKYICQNFCAVCQTEEFELTHAD  
LDEIVSNDCLNVATEETVFYALESWIKYDVQERQKYLAQLLSVRLPLLSVKFLTRYEA  
NHLIRDDRTCKHLLNEALKYHFMPHRLSHQTVLMTRPRCAPKVLCAVGGKSGLFACLDS  
VEMYFPQNDSWIGLAPLNIPRYEFGICVLDQKVYVIGGIATNVRPGVTIRKHENSVECWN  
PDTNTWTSLERMNESRSTLGVVVLAGEYALGGYDGGSYLQSVKEYIPKIRKWQPVAPMT  
TTRSCFAAAVLDMIYAIGGYGPAHMNSVERYDPSKDSWEMVASMADKRIHFGVGVMGLGF  
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>sp|A6NCF5|KLH33\_HUMAN Kelch-like protein 33 OS=Homo sapiens GN=KLHL33 PE=4 SV=2

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ELLDSDELHVQEEFEAFVAARCWLAANPETQESEAKALLRCVRFGRMSTRELRRVRAAGL  
LPPLTPDLLHQLMVEADVPGQERRREPDRALVVGGLRPDMALRQPSRAVWWARAFRC  
GVGLVRTVEWQQLPALPAPGRFRHGAASLAGSELYVCGGQDFYSHSNTLASTLRWEPSQE  
DWEEMAPLSQARSLFSLVALDGKLYALGGRHNDVALDSVETYNPELVNWRPAPALPAPCF  
AHAATAILEGQLYVSGCGGTGQYLASLMHYDPKLEKPGTFLSPMGVPRAGHVMAALGGRL  
YVAGGLGETEDLLSFEAYELRTDSWTHLAPLSPHVGAASAVLQGELLVLGGYSHRTYAL  
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>sp|Q8N239|KLH34\_HUMAN Kelch-like protein 34 OS=Homo sapiens GN=KLHL34 PE=2 SV=1

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YLERQLAPENCCFAANVAARFGLAHTLDAAERCIVSHLQELLARGAGPAGLLELNPTSLR

AVLGAPDVARVPEARLLGLALAWLRQEPTTERLAHCTELLERVRFGVLPADVLRRVYSGS  
GLVLPARVKGLIIQALNYHTTPSRQPLMQGEQTSIRSPQTRILLVGRRAREVVIEEVAA  
PQRAARGQVAAPPEEEEEEEEEEEEEEEWELTQNVVAFDVYNHRWRSLTQLPTPLLGHS  
VCTAGNFLFVLGGESPSGSASSPLADDSRVVTAQVHRYDPRFHAWTEVPAMREARAHFWC  
GAVGERLLAVGGLGAGGEVLASVEMYDLRRDRWTAAGALPRALHGHAGAVGDRGVVYISG  
GKAGRGEQGASSLRDLYVLGPPEEQVWSKKAPMGRTARFGHHMAVLRGAVFAFLGRYEPFSE  
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>sp|Q96PQ7|KLHL5\_HUMAN Kelch-like protein 5 OS=Homo sapiens GN=KLHL5 PE=2 SV=3

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DFQNSPSWPMASSTSEVPAFEFTAEDCGGAHWLDRPEVDDGTSEEENESDSSSCRTSNSSQ  
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VSDYFAAMFTNDVREARQEEIKMEGVEPNLSLSLIQYAYTGRLELKEDNIECLLSTACLL  
QLSQVVEACCKFLMKQLHPSNCLGIRSFADAQGCTDLHKVAHNYTMEHFMEVIRNQEFVL  
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>sp|Q9P2J3|KLHL9\_HUMAN Kelch-like protein 9 OS=Homo sapiens GN=KLHL9 PE=1 SV=2

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>sp|O43240|KLK10\_HUMAN Kallikrein-10 OS=Homo sapiens GN=KLK10 PE=1 SV=3

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>sp|Q9UKR3|KLK13\_HUMAN Kallikrein-13 OS=Homo sapiens GN=KLK13 PE=2 SV=1

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>sp|Q13241|KLRD1\_HUMAN Natural killer cells antigen CD94 OS=Homo sapiens GN=KLRD1 PE=1  
SV=2

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>sp|D3WOD1|KLRF2\_HUMAN Killer cell lectin-like receptor subfamily F member 2 OS=Homo  
sapiens GN=KLRF2 PE=1 SV=1

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>sp|Q03164|KMT2A\_HUMAN Histone-lysine N-methyltransferase 2A OS=Homo sapiens GN=KMT2A  
PE=1 SV=5

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>sp|Q8NEZ4|KMT2C\_HUMAN Histone-lysine N-methyltransferase 2C OS=Homo sapiens GN=KMT2C  
PE=1 SV=3

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>sp|Q8IZD2|KMT2E\_HUMAN Histone-lysine N-methyltransferase 2E OS=Homo sapiens GN=KMT2E  
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>sp|Q9NQR1|KMT5A\_HUMAN N-lysine methyltransferase KMT5A OS=Homo sapiens GN=KMT5A PE=1  
SV=3

MGEGAAAAALVAAAAAAAAAAVAVAGQRRRRLGRRARCHGPGRAAGGKMSKPCAVEAAA  
AAVAATAPGPEMVERRGPRPRTDGENVFTGQSKIYSYSPNKCSGMRFPQLEENSVTHH  
EVKCKGKPLAGIYRKREEKRNAVRSAMKSEEQKIKDARKGPLVPFPNQKSEAAEPPK  
TPPSSCDSTNAAIKQALKKPIKQKQAPRKAQGKTQQNRKLTDFYVRRSSRKSKAELQ  
SEERKRIDELIESGKEEGMKIDLIDGKGRGVIATKQFSRGDFVVEYHGDLEITDAKKRE  
ALYAQDPSTGCMYFYQYLSKTYCVDATRETNRLGRLINHSKCGNCQTKLHDIDGVPHLI  
LIASRDIAAGEELLYDYGDRSKASIEAHPWLKH

>sp|P50748|KNTC1\_HUMAN Kinetochore-associated protein 1 OS=Homo sapiens GN=KNTC1 PE=1  
SV=1

MWNDIELLTNDDTSGYLSVGSRKEHGTALYQVDLLVKISSEKASLNPKIQACSLSDGFI  
IVADQSVILLDSICRSLQLHLVFDTEVDVGLCQEGKFLLVGERSGNLHLIHVTSKQTLL  
TNAFVQKANDENRRTYQNLVIEKDGSGNEGTYYMLLLTYSGFFCITNLQLLKIQQAIENVD  
FSTAKKLQGGIKSSFISTENYHTLGLSLVAGDLASEVPVPIIGGTGNCAFSKWEPPDSSKK  
GMTVKNLIDAEIKGAKKFQLIDNLLFVLDTDNVLSLWDIYTLTPVWNWPSLHVEEFLLT  
TEADSPSSVTWQGITNLKLIALTASANKMKMNMVYSLPTMEILYSLEVSSVSSLVQTGI  
STDTIYLLEGVCKNDPKLSEDSVSVLVLRCLTEALPENRSLRLHKHRAEAEFAIQFG  
LDVELVYKVSNNHILEKLALSSVDASEQTEWQQLVDDAKENLHKIQDDEFVNNYCLKAQW  
ITYETTQEMLNIAKTRLLKKEDKTALISDGLKEVLRAHAKLTTFYGAFGPEKFGSSWI  
EFLNNEDDLKIDFLQLKEGNLVCAYLWLRHRANFESRFDVKMLESLLNSMSASVSLQKL

CPWFKNDVIPFVRRVPEGQIILAKWLEQAARNLELTDKANWPENGLQLAEIFFTAEKTD  
ELGLASSWHWISLKDYQNTTEVCQLRTLNNLRELITLHRKYNCKLALSDFEKENTTTIV  
FRMFDKVLAPELIPSILEKFIRVYMREHDLQEEELLLYIEDLLNRCSSKSTSLFETAWE  
AKAMAVIACLSDTDLIFDAVLKIMYAAVVPWSAAVEQLVKQHLEMDHPKVLLQESYKLM  
EMKLLLRGYGIREVNLLNKEIMRVVRYILKQDVPSSLEDALKVAQAFMLSDDIYSLRII  
DLIDREQGEDCLLLKSLPPAEAEKTAERVI IWARLALQEEPDSKEGKAWRMSVAKTSV  
DILKILCDIQKDNLQKDECEEMKLKFEVASLQENFEVFLSFEDYSNSSLVADLREQHI  
KAHEVAQAKHKPGSTPEPIAAEVRSPSMESKLHRQALALQMSKQELEAELTLRALKDGNI  
KTALKKCSDLFKYHCNADTGKLLFLTQKLCQMLADNPVTVPVGLNLPMSIHDLASQAA  
TICSPDFLLDALELCKHTLMAVELSRQCQMDDCGILMKASFGTHKDPYEEWSYSDFFSED  
GIVLESQMVLPIYIELISSLVPLAESKRYPLESTSLPYCSLNEGDLVLPVINSISALLQ  
NLQESSQWELALRFVVGSGFTCLQHSVSNFMNATLSEKLFGETTLVKS RHVVMELKEKAV  
IFIRENATTLHKVFNCRLVDLDLALGYCTLLPQKDVFENLWKLIDKAWQNYDKILAI SL  
VGSELASLYQEIEMGLKFRELSTDAQWGIRLGLGISFQPVFRQHFLTCKDLIKALVENI  
DMDTSLILEYCSTFQLDCDAVLQLFIETLLHNTNAGQGQGDASMDSAKRRHPKLLAKALE  
MVPLLTSTKDLVISLSGILHKLDPYDYEMIEVVLKVIERADEKITNININQALSILKHLK  
SYRRISPPVDLEYQYMLEHVITLPSAAQTRLPFHLIFFGTAQNFWKILSTELSEESFPTL  
LLISKLMKFSLDTLVYSTAKHVFEKKLKPLLKLTQAKSSTLINKEITKITQTIESCLLS  
IVNPEWAVAIAISLAQDIPEGFSFKISALKFCLYLAERWLQNIPSQDEKREKAEALLKKLH  
IQYRRSGTEAVLIAHKLNTEEYLRVIGKPAHLIVSLYEHPSINQRIQNSSGTDYPDIIHAA  
AKEIAEVNEINLEKVWMLLEKWLCPSTKPGKEKPSSELFELQEDEALRRVQYLLSRPIDY  
SSRMLFVFATSTTTTLGMHQLTFAHRTRALQCLFYLADKETIESLFKKPIEEVKSYLRCI  
TFLASFETLNIPITYELFCSSPKGMIKGLWKNHSHESMAVRLVTELCLEYKIYDLQLWN  
GLLQKLLGFNMIPYLRKVLKAISSIHSLWQVPYFSKAWQRVVIQIPLLSASCPLSPDQLSD  
CSESLIAVLECPVSGDLDLIGVARQYIQLELPALACLMLMPHSEKRHHQIKNFLGSCD  
PQVILKQLEEHNMTGQLAGFSHQIRSLILNNIINKKEFGILAKTKYFQMLKMHAMNTNNI  
TELVNYLANDLSLDEASVLITEYSKHCGKPVPPDTAPCEILKMFLSGLS

>sp|P14618|KPYM\_HUMAN Pyruvate kinase PKM OS=Homo sapiens GN=PKM PE=1 SV=4

MSKPHSEAGTAFIQQLHAAMADTFLEHMCRLDIDSPITARNTGIICTIGPASRSVET  
LKEMIKSGMNVARLNFSGHTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIR  
TGLIKSGSGTAEVELKKGATLKITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGL  
ISLVKQKQKADFLVTEVENGSGSLGSKGVNLPAAVDLPVSEKDIQDLKFGVEQDVMV  
FASFIRKASDVHEVRKVLGEKGNIKIISKIENHEGVRRFDEILEASDGIMVARGDLGIE  
IPAENVFLAQMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLDGADCIM  
LSGETAKGDYPLEAVRMQHLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEAS  
FKCCSGAIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLRYGIFPVLCCKDPVQE  
AWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVP

>sp|P60014|KR10A\_HUMAN Keratin-associated protein 10-10 OS=Homo sapiens GN=KRTAP10-10  
PE=2 SV=1

MAASTMSICSSACTDSWRVDCPESCCPECCCAPAPSLTLVCTPVSCVSSPCCQTACEPS  
ACQSGYTSSCTTPCYQQSSCQPDCTSSPCQQACCVPVCCVPVCCVPVCKPVCVPTCS  
ESSPSCCQQSSCQPTCCTSSPCQQACCVPVCSKSVCYVPVCSGASTSCCQQSSCQPACCT  
ASCCRPSSSVSLLCHPVCKSTCCVPVPCSGASASSCQPSCCRTASCVSLLCRPVCSRAC  
YSLCSGQKSSC

>sp|Q8IUC1|KR111\_HUMAN Keratin-associated protein 11-1 OS=Homo sapiens GN=KRTAP11-1 PE=2  
SV=1  
MSFNCSTRNCSSRPIGGRCIVPAQVTTTSTDADCLGGICLPSSFQTGSWLLDHCQETC  
CEPTACQPTCYRRTSCVSNPCQVTCRQTTCISNPCSTTYSRPLTFVSSGCPLGGISSV  
CQPVGGISTVCQPVGGVSTVCQACGVSRTYQQSCVSSCRRTC

>sp|Q3LI58|KR211\_HUMAN Keratin-associated protein 21-1 OS=Homo sapiens GN=KRTAP21-1 PE=3  
SV=1  
MCCNYYGNSCGYSGCGCGYSGSGCGCGYGTGYGCGYCGFGSHYCGYGTGYGCGYGS  
GSGYCGYRPFCCRRCYSSC

>sp|Q3LHN1|KR213\_HUMAN Keratin-associated protein 21-3 OS=Homo sapiens GN=KRTAP21-3 PE=3  
SV=1  
MYFNYKSVCGSCFGSCYGCYGCIIHSTHCGCNGYYGCYENKYSVIDDLIFFASKKCH

>sp|Q3LI68|KR222\_HUMAN Keratin-associated protein 22-2 OS=Homo sapiens GN=KRTAP22-2 PE=3  
SV=1  
MCYHYHNYGSLDYGCSYGSEYGNISGYACNFPCSYGRFLLAPRKKF

>sp|Q3LHN0|KR251\_HUMAN Keratin-associated protein 25-1 OS=Homo sapiens GN=KRTAP25-1 PE=3  
SV=1  
MHNRSQGFFFSSCHPQNHVSYGCQSPSFIFCRQCQLNLFVSRTCYPPLSYFSYGNQTIGSIS  
NSFRSLNYVSHSFQPISEFMHSSFQACSDFGVWQSPFLRRTC

>sp|Q9BYR7|KRA32\_HUMAN Keratin-associated protein 3-2 OS=Homo sapiens GN=KRTAP3-2 PE=1  
SV=1  
MDCCASRSCSVPTGPATTICSSDKSCRCGVCLPSTCPHTVWLLEPICCDNCPPPCHIPQP  
CVPTCFLLNSCQPTPGLETNLTTFTQPCCEPCLPRGC

>sp|Q9BYR6|KRA33\_HUMAN Keratin-associated protein 3-3 OS=Homo sapiens GN=KRTAP3-3 PE=1  
SV=1  
MDCCASRGCSVPTGPATTICSSDKSCRCGVCLPSTCPHTVWLLEPTCCDNCPPPCHIPQP  
CVPTCFLLNSCQPTPGLETNLTTFTQPCCEPCLPRGC

>sp|Q9BYQ7|KRA41\_HUMAN Keratin-associated protein 4-1 OS=Homo sapiens GN=KRTAP4-1 PE=2  
SV=3  
MVNSCCGSVCSDQGCDQGLCQETCCRPSCCQTTCPCPSCVSSCCRPSCSQTTCCTTC  
RPSCCHPVCCQTTCRPSCGVSSCCRPLCCQTTCHPSCGMSSCCRPLCCQTTCRPSCGVSS  
CCRPLCCQTTCRATCCRPSCCGSSC

>sp|Q9BYR5|KRA42\_HUMAN Keratin-associated protein 4-2 OS=Homo sapiens GN=KRTAP4-2 PE=1  
SV=2  
MVNSCCGSVCSDQGCLENCCRPSCCQTTCRRTCCRPSCCVSSCCRPQCCQSVCCQPTC  
CSPSCCQTTCRRTCCRPSCCVSSCFRPQCCQSVYCQPTCCRPSCGQTTCRRTTCYRPSC  
CVSTCCRPTCSSGSSC

>sp|Q9BYR3|KRA44\_HUMAN Keratin-associated protein 4-4 OS=Homo sapiens GN=KRTAP4-4 PE=1  
SV=1  
MVNSCCGSVCSDQGCLENCCRPSYCQTTCRRTCCRPSCCVSSCCRPQCCQTTCRRTTC  
CHPSCCVSSCCRPQCCQSVCCQPTCCRPQCCQTTCRRTCCRPSCCRPQCCQSVCCQPTC  
CCPSYCVSSCCRPQCCQTTCRRTCCRPSCCVSRYRPHCGQLCC

>sp|Q9BYR2|KRA45\_HUMAN Keratin-associated protein 4-5 OS=Homo sapiens GN=KRTAP4-5 PE=1  
SV=4

MVSSCCGSVSSEQSCGLENCRCRPSCCQTTCCRTTCCRPSCCKPQCCQSVCYQPTCCHPSC  
CISSCCRPYCCSSCCRPCCCQTTCCRTTCCRTTCCCPSCCVSSCCRPQCCQSVCCQPTC  
CRPSCCISSCCHPSCCESSCCRPCCCVRPVCGRVSCHTTCYRPTCVISTCPRPLCCASSC  
C

>sp|Q9BYQ9|KRA48\_HUMAN Keratin-associated protein 4-8 OS=Homo sapiens GN=KRTAP4-8 PE=2  
SV=4

MVNSCCGSVCSDQGGQDLQETCCCPSCCQTTCCRTTCYRPSYSVSSCCRPQCCQSVCC  
QPTCCRPSCCVSSCCKPQCCQSVCCQPTCCHPSCCISSCCRPSCCVSSCCKPQCCQSVCC  
QPNCCRPSCSISSCCRPSCCESSCCRPCCCLRPVCGRVSCHTTCYRPACVISTCPRPVCC  
ASSCC

>sp|Q6L8G9|KRA56\_HUMAN Keratin-associated protein 5-6 OS=Homo sapiens GN=KRTAP5-6 PE=1  
SV=1

MGCCGCSGGCGSGCGGCGSGCGGCGSSCCVPICCKPVCCCVACSTSCGSGGSGKGCC  
GSCGSGKGGCGSGGSGKGGCGSGCSQCSCCKPCYCSSGCGSSCCQSSCCKPCCSQASCC  
VPICCCQCKI

>sp|A8MXZ3|KRA91\_HUMAN Keratin-associated protein 9-1 OS=Homo sapiens GN=KRTAP9-1 PE=3  
SV=1

MTHCCSPCCQPTCCRTTCCRTTCWKPTTVTTCSSSTPCCQPSCCVPSCCQPCCHPTCCQNT  
CCRTTCCQPTCVASCCQPSCCSTPCCQPTCCGSSCCGQTSCGSSCCQPICGSSCCQPCCH  
PTCYQTICFRITCCQPTCCQPTCCRNSTSCQPTCCGSSCCQPCCHPTCCQTICRSTCCQPS  
CVTRCCSTPCCQPTCCGSSCCSQTCNESSYCLPCCRPTCCQTTCYRTTCCRPSCCSPCC  
VSSCCQPSCC

>sp|Q9BYQ4|KRA92\_HUMAN Keratin-associated protein 9-2 OS=Homo sapiens GN=KRTAP9-2 PE=1  
SV=2

MTHCCSPCCQPTCCRTTCCRTTCWKPTTVTTCSSSTPCCQPACCVSSCCQPCCRPTCCQNT  
CCRTTCCQPTCVTSCCQPSCCSTPCCQPTCCGSSCCGQTSCGSSCGQSSSCAPVYCRRTC  
YYPTTVCLPGCLNQSCGSNCCQPCCRPACCETTCCRTTCFQPTCVSSCCQPSCC

>sp|A8MVA2|KRA96\_HUMAN Keratin-associated protein 9-6 OS=Homo sapiens GN=KRTAP9-6 PE=3  
SV=1

MTHCCSPGCQPTCCRTTCCRTTCWQPTIVTTCSSSTPCCQPSCCVSSCCQPYCHPTCCQNT  
CCRTTCCQPTCVTSCCQPSCCSTPCYQPICCGSSCCGQTSCGSSCGQSSSCAPVYCRRTC  
YHPTTVCLPGCLNQSCGSSCCQPCYCPACCVSSCCQHSCC

>sp|Q9BYQ0|KRA98\_HUMAN Keratin-associated protein 9-8 OS=Homo sapiens GN=KRTAP9-8 PE=1  
SV=2

MTHCCSPCCQPTCCRTTCWKPTTVTTCSSSTPCCQPSCCVSSCCQPCCRPTCCQNTCCQPI  
CVTSCCQPSCCSTPCCQPTCCGQTSCGSSCGQSSSCAPVYCRRTCYHPTTVCLPGCLNQS  
CGSNCCQPCCRPACCETTCCRTTCFQPTCVSSCCQPSCC

>sp|A5PL33|KRBA1\_HUMAN Protein KRBA1 OS=Homo sapiens GN=KRBA1 PE=1 SV=3

MRENYETLVSVGTAELLPLSAFLSPSEPGRAVGGGSHADEGQEPAGCGDPQGGQPRHSLH  
LTALVQLVKEIPEFLFGEVKGAMDSPESER GASLDGERASPEAAAAREPCPLRGLLSCL  
PDGPTSQPHLATTPTDSSSGPTGDGVQGSPLPIKTADKPWPTRKEGPGALGGEPSPT  
HSPSRRKSHRGQERGTS EAGISPGNSPLQGLINCLKEILVPGPRHPETSPSFLPPLPSLG  
TSRLTRADLPGSPPWAVKTEAVSGDCPLQGLLHCLKELPEAQDRHPSPSGVGNRRQLQEN  
PGAWKRGSGGPGYLLTPPPHPDLGAGLLSVKMENSWQSPPGPASCQPGRQPLSPSATG

DTRGVPQPSWGPEAQAAASASSSPLEALEACLKGIPPNGSSPSQLPPTSCSQNPQPGDSRS  
QKPELQPHRSHSEETREPVLPLGLQSCVRDGPSRPLAPRGTPTSFSSSSSTDWDLDFGS  
PVGNGGQHPGKGSPPGSSPLQGLENLKEIPVPVLRPAWPCSSAADRGPRRAEPRNWTAD  
KEGLRAEACESARLQGGRGEAPTRSLHLVSPQVFTSSCVPACHQRGFKDPGATRPGVVRW  
LPEGSAPKPSPLHCLLESALRGILPVRPLRFACVGGPSPSPSGSSSSFSGEGEDPRPEP  
DLWKPLPQERDRLPSCKPPVPLSPCPGGTPAGSSGGSPGEDPRRTEPRYCSGLGAGTAQD  
PCPVSQLEKRPRVSEASRGLELGHGRPRVAAKTHERLLPQGPPPELPSESPPELPPPEAA  
PPVLPASSLQPPCHCGKPLQQLHSLGAALAEKLDRLATALAGLAQEVATMRTQVNRLGR  
RPQGPMPGQASWMTLPRGPRWAHGPGRHLPYWRQKGPTRPKPKILRGQGESCAGDL  
QGLSRGTARRARPLPPDAPPAEPPGLHCSSSQLLSSTPSCHAAPPAHPLLAHTGGHQSP  
LPPLVPAALPLQGASPPAASADADVPTSGVAPDGIPEPKEPSSLLGGVQRALQEELWGG  
EHRDPRWGAH

>sp|Q5JUW0|KRBOX4\_HUMAN KRAB domain-containing protein 4 OS=Homo sapiens GN=KRBOX4 PE=2  
SV=1

MAMSQESLTFKDVFDFTLEEWQQLDSAQKNLYRDVMLENYSHLVSVGYLVAKPDVIFRL  
GPGEESWMADGGTPVRTCAGEDRPEVWQVDEQIDHYKESQDKLPWQAFIGKETLKDESG  
QESRTCCKRSIYLSTEFDSVRQLPKYYSWEKAFKTSFKLSWSKWKLCCKER

>sp|Q8NCW0|KREM2\_HUMAN Kremen protein 2 OS=Homo sapiens GN=KREMEN2 PE=2 SV=1

MGTQALQGFLFLLFLPLLQPRGASAGSLHSPGLSECFQVNGADYRGHQNRTGPRGAGRPC  
LFWDQTTQHSYSSASDPHGRWGLGAHNFCRNPDGDVQPCYVAETEEGIYWRYCDIPSCH  
MPGYLGC FVDSGAPPALSGPSGTSTKLTVQVCLRFCRMKGYQLAGVEAGYACFCGSESDL  
ARGRLAPATDCDQICFGHPGQLCGGDGRLGVYEVSVGSCQGNWTAPQGVIIYSPDFPDEYG  
PDRNC SWALGPPGALELTFRLFELADPRDRLELRDAASGSLLRAFDGARPPPSGPLRLG  
TAALLLTFRSDARGHAQGFALT YRGLQDAAEDPEAPEGSAQTPAAPLDGANVSCSPRPGA  
PPAAIGARVFSTVTAVSVLLLLLLGLLRPLRRRSCLLAPGKGPPALGASRGPRRSWAVWY  
QQPRGVALPCSPGDPQAEGSAAGYRPLSASSQSSLRSLISAL

>sp|P43405|KSYK\_HUMAN Tyrosine-protein kinase SYK OS=Homo sapiens GN=SYK PE=1 SV=1

MASSGMADSANHLPFFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRK  
AHHYTIERELNGTYAIAGGRTHASPADLCHYHSQESDGLVCLLKKPFNRPPQGVQPKTGPF  
EDLKENLIREYVKQTWNLQGQALEQAIISQKPQLEKLIATTAHEKMPWFHGKISREESEQ  
IVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQL  
VEHYSYKADGLLRVLTVPCQKIGTQGNVNFGRPQLPGSHPATWSAGGIISRIKSYSPFK  
PGHRKSSPAQGNRQESTVSFNPYEP LAPWAADKGPQREALPMDTEVYESPYADPEEIRP  
KEYYLDRLKLTLEDKELGSGNFGTVKKGGYQMKKVVKTVAVKILKNEANDPALKDELLAE  
ANVMQQLDNPIYVRMIGICEAESWMLVMEMAELGPLNKYLQQNRHVKDKNIIELVHQVSM  
GMKYLEESN FVHRDLAARNVLLVTQHYAKISDFGLSKALRADENYYKAQTHGKWPVKWYA  
PECINYYKFSSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTAMLEKGERMGCPAGCPRE  
MYDLMNLCWTYDVENRPGFAAVELRLRNYYYDVVN

>sp|075112|LDB3\_HUMAN LIM domain-binding protein 3 OS=Homo sapiens GN=LDB3 PE=1 SV=2

MSYSVTLTGPGPWGFRLLQGKDFNMPLTISRITPGSKAAQSLSQGD LVVAIDGVNTDTM  
THLEAQNKIKSASYNLSLT LQKSKRPIISTTAPPVQTPLPVIHQKDPALDTNGSLVAP  
SPSPEARASPGTGPTELRPTFSAPFSRPSAFSSLAESDPGPPRASLRAKTSPEGARDL  
LGPKALPGSSQPRQYNNPIGLYSAETLREMAQMYQMSLRGKASGVGLPGGSLPIKDLAVD  
SASPVYQAVIKSQNKPEDEADEWARRSSNLQSRSFRI LAQMTGTEFMQDPDEEALRRSST

PIEHAPVCTSQATTPLLPASAQPAAASPSAASPLATAAAHTAIAASASTTAPASSPADS  
PRPQASSYSPAFAASSAPATHTSYSEGAAPAPKPRVVTASIRPSVYQVPASTYSPSP  
GANYSPTPYTPSPAPAYTPSPAPAYTPSPVPTYTPSPAPAYTPSPAPNYPAPSVAYSGG  
PAEPASRPPWVTDDSFQKFAFGKSTTSISKQTLPRGGPAYTPAGPQVPPLARGTVQRAE  
RFPASSRTPLCGHCNNVIRGPFLVAMGRSWHPPEFTCAYCKTSLADVCVVEEQNNVYCER  
CYEQFFAPLCAKCNTKIMGEVMHALRQTHHTTCFVCAACKKPFGNLSLFHMEDGEPYCEKD  
YINLFSTKCHGCDPVEAGDKFIEALGHTWHDTCFICAVCHVNLEGQPFYSKDRPLCKK  
HAHTINL

>sp|P00338|LDHA\_HUMAN L-lactate dehydrogenase A chain OS=Homo sapiens GN=LDHA PE=1 SV=2

MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKG  
EMMDLQHGSFLRTPKIVSGKDYNVTANSKLVIITAGARQQEGESRLNLVQRNVNIFKFI  
IPNVVKYSPNCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGV  
HPLSCHGWVLGEHGDSSVPVWGMNVAGVSLKTLHPDLGTDKDKEQWKEVHKQVVESAYE  
VIKLGYSWAIGLSVADLAESIMKNLRRVHPVSTMIKGLYGIKDDVFLSVPCILGQNGI  
SDLVKVTLTSEEEARLKKSADTLWGIQKELQF

>sp|Q86WU2|LDHD\_HUMAN Probable D-lactate dehydrogenase, mitochondrial OS=Homo sapiens  
GN=LDHD PE=1 SV=1

MARLLRSATWELFPWRGYCSQKAKGELCRDFVEALKAVVGGSHVSTAADVREHQHGRDESV  
HRCEPPDAVWPQNVEQVSRLAALCYRQGVPIIPFGTGTGLEGGVCAVQGGVCVNLTHMD  
RILELNQEDFSVVVEPGVTRKALNAHLRDSGLWFPVDPGADASLCGMAATGASGTNAVRY  
GTMRDNLNLEVVLPDGRLLHTAGRGRHFRFGFWPEIPHHTAWYSPCVSLGRRKSAAGYN  
LTGLFVGSEGLGLITATTLRLHPAPEATVAATCAFPSVQAAVDSTVHILQAAVVARIE  
FLDEVMMDACNRYSKLNCLVAPTLFLEFHGSQQAEEQLQRTEEIVQQNGASDFSWAKEA  
EERSRLWTARHNAWYAALATRPGCKGYSTDVCVPI SRLPEIVVQTKEDLNASGLTGSIVG  
HVGDNFHCILLNPDDAEELGRVKAFAEQLGRRALALHGTCTGEHGIGMGKRQLLQEEV  
GAVGVETMRQLKAVLDPQGLMNPCKVL

>sp|Q9NVR5|KTU\_HUMAN Protein kintoun OS=Homo sapiens GN=DNAAF2 PE=1 SV=2

MAKAAASSLEDLDLSGEEVQRLTSAFQDPEFRMFSQYAEELDPENRRRYEAEITALE  
RERGVEVRFVHPEPGHVLRTSLDGARRCFVNVCSNALVGAPSSRPGSGGDRGAAPGSHWS  
LPYSLAPGREYAGRSSSRMVYDVVFHPDALALARRHEGFRQMLDATALEAVEKQFGVKL  
DRRNLTKLAKYKGTPEAAVLRPLPGVIPARPDGEPKGPLPDFPYPYQYPAAPGPRAPS  
PPEAALQPAPTEPRYSVVQRHHVDLQDYRCSRDSAPSPVPHLVITIELPLLSAEQAAL  
EVTRKLLCLDSRKP DYRLRLSLPYPVDDGRGKAQFNKARRQLVVTLPVVLPAARREPAVA  
VAAAPEESADRSRGTDGQACASAREGEAGPARSRAEDGGHDTCVAGAAGSGVTTLGDPEV  
APPPAAAGEERVPKPGEQDL SRHAGSPPGSVEEPSPGGENSPGGGGSPCLSSRSLAWGSS  
AGRESARGDSSVETREESEGTGGQRSACAMGGPGTKSGEPLCPPLLCNQDKETLTLLIQV  
PRIQPQLSQGDLNPLWYKLRFSQDLVYSFFLQFAPENKLSTTEPVISISSNNAVIELAK  
SPESHGHWREWYGVNNDLSLEERLFVNEENVNEFLEEVLSSPFKQSMSTPPLIEVLQVT  
DNKIQINAKLQECNSDQLQGKEERVNEESHLTEKEYIEHCNTPTTSDSSIAVKALQID  
SFGLVTCFQQESLDVSQMILGKSQQPESKMQSEFIKEKSATCSNEEKDNLNESVITEEKE  
TDGHLSSLLNKTTHVNIPGFDSIKETNMQDGSVQVIKDHVTNCAFSFQNSLLYDLD

>sp|Q9BQD3|KXDL1\_HUMAN KxDL motif-containing protein 1 OS=Homo sapiens GN=KXD1 PE=1 SV=2

MDLPDSASRVFCGRILSMVNTDDVNAILAQKNMLDRFEKTNEMLLNFNNLSSARLQQMS  
ERFLHHTRTLVEKMRDLDSIFRRIRTLKGKLARQHPEAFSHIPEASFLEEDEDPIPPST

TTTIATSEQSTGSCDTSPDTVSPSLSPGFEDLSHVQPGSPAINGRSQTDDEEMTGE

>sp|Q9UNZ5|L10K\_HUMAN Leydig cell tumor 10 kDa protein homolog OS=Homo sapiens GN=C19orf53  
PE=1 SV=1

MAQGQRKFQAHKPAKSKTAAAASEKNRGPRKGGRVIAPKKARVVQQKLKKNLEVGIRKK  
IEHDVVMKASSSLPKKLALLKAPAKKKGAAAATSSKTPS

>sp|POCF74|LAC6\_HUMAN Ig lambda-6 chain C region OS=Homo sapiens GN=IGLC6 PE=4 SV=1  
GQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVKVAWKADGSPVNTGVETTPSK  
QSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPAEC

>sp|AOM8Q6|LAC7\_HUMAN Ig lambda-7 chain C region OS=Homo sapiens GN=IGLC7 PE=4 SV=2  
GQPKAAPSVTLFPPSSEELQANKATLVCLVSDYFPGAVTVAWKADGSPVKVGVETTKPSK  
QSNNKYAASSYLSLTPEQWKSHRSYSCRVTHEGSTVEKTVAPAEC

>sp|Q8IV20|LACC1\_HUMAN Laccase domain-containing protein 1 OS=Homo sapiens GN=LACC1 PE=1  
SV=1

MAEAVLIDLFGKLNSQKNCHQTLKTLNAVQYHHAAKAKFLCIMCCSNISYERDGEQDN  
CEIETSNGLSALLEFEIVSCPSMAATLYTIKQKIDEKNLSSIKVIVPRHRKTLMKAFID  
QLFTDVYNFEFEDLQVTFRGGFLFKQSIEINVITAQELRGIQNEIETFLRSLPALRGKLT  
ITSSLIPDIFIHGFTTRTGGISYIPTLSSFNLFSSSKRRDPKVVVQENLRLLANAAGFNV  
EKFYRIKTHSNDIWIMGRKEPDSYDGITTNRQGVITIAALGADCIPVIFADPVKKACGVA  
HAGWKGTL LGVAMATVNAMIAEYGC SLEDIVVVLGPSVGPCFTLPRESAEAFHNLHPAC  
VQLFDSNPNCIDIRKATRILLEQGGILPQNIQDQNDLNLCTSCHPDKFFSHVRDGLNFG  
TQIGFISIKE

>sp|Q6ZV70|LANC3\_HUMAN LanC-like protein 3 OS=Homo sapiens GN=LANCL3 PE=2 SV=2

MDTKRCFANRFDDYQGSLLAGQCEEAVAPLV TATIERILQELPPLGGGAEARGATAGASA  
CQGGLYGGVAGVAYMLYHVSQSPLFATARERYLRS AKRLIDACARAE EWGEPDADTRAAF  
LLGGAGVYAVATLVYHALGRSDYVQPLGKFRALCAVCAPVSFLECGSDELFVGRAGYLCA  
ALVLKQKLAQEV LTPAQIKSICQAILDSGKQYAIKKRKPFLMYSYYGTEYLGAHGLSS  
ILQMLLSYHEHLKPSDREL VWQSVDFLMEQE QNCNWPELGETIERENELVHWCHGAPGI  
AYLFAKAYLVSKKPQYLDTCIRCGELTWQKGLLKKGPGICHGVAGSAYVFLLLYRLTGNS  
KYIYRAQRFAQFLFTEEFKAGSRVLESIYSLYEGFSGTVCF LIDLQPNQAEFPLFSVFV

>sp|Q4G0J3|LARP7\_HUMAN La-related protein 7 OS=Homo sapiens GN=LARP7 PE=1 SV=1

METESGNQEKVMEEEESTEKKEVEKKRSRVKQVLADI AKQVDFWFGDANLHKDRFLREQ  
IEKSRDGYVDISLLVSFNKMKKLT TDGKL IARALRSSAVVELDLEGTRIRKKPLGERPK  
DEDERTVYVELLPKNVNHSWIERVFGKCGNVVYISIPHYKSTGDPKGFAFVEFETKEQAA  
KAIEFLNPPPEAPRKPGIFPKTVKNKPIPALRVVEKKKKKKKGRMKKEDNIQAKEEN  
MDTSNTSISKMKRSRPTSEGSDIESTEPQKQCSKKKKRDRVEASSLPEVRTGKRKRSS  
EDAESLAPRSKVKKI IQKDI I KEASEASKENRDIEISTEEKDTGDLKDSLLKTKRKHK  
KKHKERHKMGEEV IPLRVLSKSEWMDLKKEYLALQKASMASLKKTISQIKSESEMETDSG  
VPQNTGMKNEKTANREECRTQEKVNATGPQFVSGVIVKIISTEPLPGRKQVRDTLAAISE  
VLYVDLLEGDTECHARFKTPEDAQAVINAYTEINKKHCKWLEILSGDHEQRYWQKILVDR  
QAKLNQPREKKRGTEKLITKAEKIRLAKTQQASKHIRFSEYD

>sp|Q9UHI5|LAT2\_HUMAN Large neutral amino acids transporter small subunit 2 OS=Homo  
sapiens GN=SLC7A8 PE=1 SV=1

MEEGARHRNTEKKHPGGGESDASPEAGSGGGVALKKEIGLVSACGIIVGNIIGSGIFV  
SPKGVLENAGSVGLALIVWIVTG FITVVGALCYAELGVTIPKSGGDYSYVKDIFGGLAGF

LRLWIAVLVIYPTNQAVIALTFSNYVLQPLFPTCFPPESGLRLLAAICLLLLTWNCSSV  
RWATRVQDIFTAGKLLALALIIIMGIVQICKGEYFWLEPKNAFENFQEPDIGLVALAFLQ  
GSFAYGGWNFLNYVTEELVDPYKNLPRAIFISIPLVTFVYVFANVAYVTAMSPQELLASN  
AVAVTFGEKLLGVMAWIMPISVALSTFGGVNGSLFTSSRLFFAGAREGHLPSVLAMIHVK  
RCTPIPALFTCISTLLMLVTSDMYTLINYVGFINYLFYGVTVAGQIVLRWKKPDIPRPI  
KINLLFPIIYLLFWAFLLVFSLWSEPVCIGLAIMLTGVPVYFLGVYWQHKPKCFSDFI  
ELLTLVSQKMCVVVYPEVERGSGTEEANEDMEEQQQPMYQPTPTKDKDVAGQPQP

>sp|Q86YQ2|LATH\_HUMAN Putative BPIFA4P protein OS=Homo sapiens GN=BPIFA4P PE=5 SV=1

MLNVSGLVLLCGLLVSSSAQEVLAGVSSQLLNDLTQGLLRADFLPSLQTTGLQKPLSSA  
FDGVSGLLDIFGPPLTNEINTVSIQVKNPQLLHVSIESTPQRKEATVQVPFTSELIVQLL  
TMKPFTANMQSDIKVQIRLEKNVGGRYELAFGNCRLLEAIWIQTGVQLAPAQNLWQT

>sp|O95835|LATS1\_HUMAN Serine/threonine-protein kinase LATS1 OS=Homo sapiens GN=LATS1  
PE=1 SV=1

MKRSEKPEGYRQMRPKTFPASNYTVSSRQMLQEIRESLRNLKSPSDAAKAEHNMSKMSTE  
DPRQVRNPPKFGTHHKALQEIRNSLLPFANETNSSRSTSEVNPQMLQDLQAAGFDEDMVI  
QALQKTNNRSIEAAIEFISKMSYQDPRREQMAAAAARPINASMKPGNVQQSVNRKQSWKG  
SKESLVPQRHGPPLGESVAYHSESPNSQTDVGRPLSGSGISAFVQAHPNSNGQRVNPPPPP  
QVRSVTPPPPPRGQTPPPRGTTPPPPSWEPNSQTKRYSGNMEYVISRISPVPPGAWQEGY  
PPPPLNTSPMNPPNQGQRGISSVPVGRQPIIMQSSSKFNFPSGRPGMQNGTGQTDFTMIHQ  
NVVPAGTVNRQPPPPYPLTAANGQSPSALQTGGSAAAPSSYTNGSIPQSMMPVNRNSHNME  
LYNISVPLQTNWPQSSSAPAQSSPSSGHEIPTWQPNIPVRSNSFNNPLGNRASHSANSQ  
PSATTVTAITPAPIQQPVKSMRVLKPELQTALAPTHPSWIPQPIQTVQPSPFEGTASNV  
TVMPPVAEAPNYQGPPPPYPKHLLHQNPSPPPYESISKPSKEDQPSLPKEDESEKSYENV  
DSGDKEKKQITTSPI TVRKNKKDEERRESRIQSYSPQAFKFFMEQHVENVLKSHQQLHR  
KKQLENEMMRVGLSQDAQDMRKMCLQKESNYIRLKRAKMDKSMFVKIKTLGIGAFGEVC  
LARKVDTKALYATKTLRKKDVLRLNQVAHVKAERDILAEADNEWVRLYYSFQDKDNLVYF  
VMDYIPGGDMMSLLIRMGIFPESLARFYIAELTCAVESVHKMGFIHRDIKPDNILIDRDG  
HIKLTDFGLCTGFRWTHDSKYQSGDHPRQDSMDFSNEWGDPSSCRCGDRKPLERRAAR  
QHQRCLAHSLVGTPTYIAPEVLLRTGYTQLCDWWSVGILFEMLVGQPPFLAQTPLETQM  
KVINWQTSLHIPPQAKLSPEASDLIIKLCRGPEDRLGKNGADEIKAHPFFKTIDFSSDLR  
QQSASYIPKITHPTDTSNFDVPDPDKLWSDDNEEENVNDTLNGWYKNGKHPEHAFYEFTF  
RRFFDDNGYPYNPKEIYEYINSQGSEQQSDEDDQNTGSEIKNRDLVYV

>sp|P05455|LA\_HUMAN Lupus La protein OS=Homo sapiens GN=SSB PE=1 SV=2

MAENGDNKMAALEAKICHQIEYYFGDFNLPRDKFLKEQIKLDEGWVPLEIMIKFNRLNR  
LTTFDNVIVEALSKSKAELMEISEDKTKIRRSKPLPEVTDEYKNDVKNRSVYIKGFPT  
DATLDDIKEWLEDKGQVLNIQMRRTLHKAFKGSIFVVFDSESAKKFVETPGQKYKETDL  
LILFKDDYFAKKNEERKQNKVEAKLRAKQEQAQKLEEDAEMKSLEEKIGCLLKFSGD  
DDQTCREDLHILFSNHGEIKWIDFVRGAKEGIIILFKEKAKEALGKAKDANNGLQLRNKE  
VTWEVLEGEVEKEALKKIIEDQQESLNKWKSKGRRFKGKGKGNKAAQPGSGKGKVQFQKG  
KTKFASDDEHDEHDENGATGPVKRAREETDKEEPASKQKKTENGAGDQ

>sp|Q53QV2|LBH\_HUMAN Protein LBH OS=Homo sapiens GN=LBH PE=1 SV=1

MSIYFPIHCPDYLSAKMTEVMNMTQPMEEIGLSPRKDGLSYQIFPDPSDFDRCKLKDR  
LPSIVVEPTEGEVESGELRWPPEEFLVQEDEQDNCEETAKENKEQ

>sp|Q9UIQ6|LCAP\_HUMAN Leucyl-cystinyl aminopeptidase OS=Homo sapiens GN=LNPEP PE=1 SV=3



MEPFTNDRLQLPRNMIENSMFEEEPDVVDLAKEPCLHPLEPDEVEYEPRGSRLLVRLGE  
HEMEDEEDYESSAKLLGMSFMNRSSGLRNSATGYRQSPDGACSVPSARTMVVCAFVIVV  
AVSVIMVIYLLPRCTFTKEGCHKKNQSIGLIQPFATNGKLFPAQIRLPTAVVPLRYELS  
LHPNLTSMTRGSVTISVQALQVTWNIILHSTGHNISRVTFMSAVSSQEKQAEILEYAYH  
GQIAIVAPEALLAGHNYTLKIEYSANISSSYGYGFSYTDENKKYFAATQFEPLAAR  
SAFPCFDEPAFKATFI IKIIRDEQYTALSNMPKSSVLDLGLVQDEFSESVKMSTYLVA  
FIVGEMKNLSQDVNGTLVSIYAVPEKIGQVHYALETTVKLLEFFQNYFEIQYPLKKLDLV  
AIPDFEAGAMENWGLLTFREETLLYDSNTSSMADRKLVTKI IAHELAHQWFGNLVTMKWW  
NDLWLNIEGFATFMEYFSLEKIFKELSSYEDFLDARFKTMKKDSLNSHPISSSVSSEQI  
EEMFDSL SYFKGSSLLMLKTYLSEDFVQHAVVLYLHNHSYASIQSDDLWDSFNEVTNQT  
LDVKRMMKTWTLQKGFPLVTQKKGKELFIQKERFFLNMKPEIQPSDTSYLWHIPLSYVT  
EGRNYSKYQSVSLDDKSGVINLTEEVLWVKVINNMNGYIYVHYADDDWEALIHQLKINP  
YVLSDKDRANL INNIFELAGLGKVP LKRAF DLINYLGNENHTAPITEALFQTDLIYNLLE  
KLGMDLASRLVTRVFKLLQNKIQQTWTDEGTPSMRELSALLEFACHTNLGNCSTTAM  
KLFDDWMAASNGTQSLPTDVMTTVFKVGAKTDKGSFLLGKYISIGSEAEKNKILEALASS  
EDVRKLYWLMKSSLNGDNFRTQKLSFI IRTVGRHFP GHLLAWDFVKENWNKLVQKFPLGS  
YTIQNI VAGSTYLFSTKTHLSEVQAFFENQSEATFRLRCVQEALVIQLNIQWMEKNLKS  
LTWWL

>sp|P04180|LCAT\_HUMAN Phosphatidylcholine-sterol acyltransferase OS=Homo sapiens GN=LCAT  
PE=1 SV=1

MGPPGSPWQWVTL LLGLLLPPAAPFWLLNVLFPPHTTPKAELSNHTRPVILVPGCLGNQL  
EAKLDKPDVVNWMCYRKTEFFT IWL DLNMFLPLGVDCWIDNTRVVYNRSSGLVSNAPGV  
QIRVPGFGKTY SVEYLDSSKLAGYLHTLVQNLVNNGYVRDET VRAAPYDWRLEPGQEEY  
YRKLGLVEEMHAAYGKPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGFISLGAPWGGS  
IKPMLVLASGDNQGIPI MSSIKLEEQRITTTSPWMFSPRMAWPEDHVFISTPSFNYTGR  
DFQRFFADLHFEEGWYMWLQSRDLLAGLPAPGVEVYCLYGVLPTPRTYIYDHGFPYTD  
VGVLYEDGDDTVATRSTELCGLWQGRQPQPVHLLPLHGIQHLNMVFSNLTLEHINAILLG  
AYRQGPPASPTASPEPPPE

>sp|Q5T753|LCE1E\_HUMAN Late cornified envelope protein 1E OS=Homo sapiens GN=LCE1E PE=1  
SV=1

MSCQQSQQQCQPPPKCTPKCPPKCTPKCPPKCPPVSSCCSVSSGGCCGSSSGGSC  
GSSSGGCCSSGGGGCCLSHHRHHRSHRHPQSSDCCSQPSGGSSCCGGSGQHSGGCC

>sp|Q5TA82|LCE2D\_HUMAN Late cornified envelope protein 2D OS=Homo sapiens GN=LCE2D PE=1  
SV=1

MSCQQNQQQCQPPPKCTPKCPPKCPPKCPPQCPAPCSPAVSSCCGPSSGSCGPSS  
GGCCSSGGGGCCLSHHRPRLFHRRRHQSPDCCESEPSGASGCCHSSGGCC

>sp|Q9BYE3|LCE3D\_HUMAN Late cornified envelope protein 3D OS=Homo sapiens GN=LCE3D PE=2  
SV=1

MSCQQNQQQCQPPPKCPSPKCPPKSPVQCLPPASSGCAPSSGGCGPSSEGGCFLNHHRH  
HRCRRQRPNSCDRSGSQGGGGSGCGHSGGCC

>sp|Q969E1|LEAP2\_HUMAN Liver-expressed antimicrobial peptide 2 OS=Homo sapiens GN=LEAP2  
PE=1 SV=1

MWHLKLC AVLMI FLLLLGQIDGSP IPEVSSAKRRPRRMTPFWRGVSLRPIGASCRDDSEC  
ITRLCRKRRC SLVAQE

>sp|014960|LECT2\_HUMAN Leukocyte cell-derived chemotaxin-2 OS=Homo sapiens GN=LECT2 PE=1 SV=2

MFSTKALLLAGLISTALAGPWANICAGKSSNEIRTCDRHGCQYSAQRSQRPHQGV DILC  
SAGSTVYAPFTGMIVGQEKPYQNKNAINNGVRISGRGFCVKMFYIKPIKYKGPIKKGEKL  
GTLLPLQKVYPGIQSHVHIENCSSDPTAYL

>sp|Q5T871|LELP1\_HUMAN Late cornified envelope-like proline-rich protein 1 OS=Homo sapiens GN=LELP1 PE=3 SV=1

MSSDDKSKSNDPKTEPKNCDPKCEQKCESKCQPSCLKLLQRCFEKCPWEKCPAPPKCLP  
CPSQSPSSCPPQPCTKPCPPKCPSSCPHACPPPCPPPE

>sp|Q6UYE1|LEU7\_HUMAN Leukemia-associated protein 7 OS=Homo sapiens GN=DLEU7 PE=2 SV=1

MASPAPLVASISHQVALQTLQLLQQEWGWDGPVAPGNRPDPDHVSTAPARRSGPPRAR  
PGPGREERGGGVGTRSRRTAARANSPEEEVVRGAEGGAELLPFPRDRGPCTLAQMAMRSA  
LARVVDSTSELVSVEQTLLGPLQQERSFPIHLKDSVEFRNICSHLALQIEGQQFDRDLNA  
AHQCLKTIVKKLIQSLANFPSDAHMOVACASLRQILQNLPDI

>sp|Q3ZCV2|LEXM\_HUMAN Lymphocyte expansion molecule OS=Homo sapiens GN=LEXM PE=2 SV=3

MRESQDAAGAHGWNRVGSTATKWFTGAPFGVQSHRFDISAVYPNWKKFSTFTEAPYSTRY  
STQVSHIGPGTYSSKETCFSKKKLMKEVD TGWAKAQEATRLTQLPHFYQAIMKEKRLKE  
QKLPGPSYNLKDFLEQLREKPCSTRGLLSSGEVRFRLTGNYYPGPGNYGEKGNPYTKLE  
ENAWNRSHSEGLMCRMSNKPHPRPYQGSGLPGPTYFFKSDLETYVARSVGTRGPYDTFSG  
DRSKPLPYGHYSMQKKKPRELMNFKSFVEELNSHHNKKHGVFSKLPRNPKTPTERIYWAN  
LSQCPRTLATSGPSFWLPQEKCKPVNQPPFLLTSKGS GAKACQMIMGSWNPVGVG RYLN  
TWLMETKDRRQRYRSLFLSGSKRYLSDLARDMLM QERITPFTKGKCPPTVDYNSDPTP

>sp|P19256|LFA3\_HUMAN Lymphocyte function-associated antigen 3 OS=Homo sapiens GN=CD58 PE=1 SV=1

MVAGSDAGRALGVLSVCLLHCFGFISCFSSQIYGVVYGNVTFHVPSNVPLKEVLWKKQK  
DKVAELENSEFRAFSSFKNRVYLDTVSGSLTIYNLTSSDEDEYEMESPNITDTMKFFLYV  
LESLSPTLTALTNGSIEVQCMIP EHYNSHRGLIMYSWDCPMEQCKRNSTSIYFKMEND  
LPQKIQCTLSNPLNTTSSIILTTCIPSSGHSRHYALIPILAVITTCIVLYMNGILKC  
DRKPDRTNSN

>sp|Q7Z429|LFG1\_HUMAN Protein lifeguard 1 OS=Homo sapiens GN=GRINA PE=2 SV=1

MSHEKSFLVSGDNYPNPPNPGYPGGPQPPMPYPAQPPYPGAPYPQPPFQSPYPGPGYPHG  
PSPYPQGGYPQGPYPQGGYPQGPYPQEGYPQGPYPQGGYPQGPYPQSPFPNYPGQPQVF  
PGQDPDSPQHGNVQEEGPPSYDNQDFPATNWDDKSIRQAFIRKVFLVLTQLSVTLSTV  
SVFTFVAEVKGFVRENVWVYYYSYAVFFISLIVLSCCGDFRRKHPWNLVALSVLTASLSY  
MVGMIASFYNTEAVIMAVGITTAVCFTVVISMQTRYDFTSCMGVLLVSMVVLFIFAILC  
IFIRNRILEIVYASLGALLFTCF LAVDTQLLLGNKQLSLSP EYVFAALNLYTDIINIFL  
YILTIIGRAKE

>sp|Q9BWQ8|LFG2\_HUMAN Protein lifeguard 2 OS=Homo sapiens GN=FAIM2 PE=1 SV=1

MTQGKLSVANKAPGTEGQQQVHGKKEAPAVPSAPPSYEEATSGEGMKAGAFPPAPTAVP  
LHPSWAYVDPSSSSSYDNGFPTGDHELFTTFSWDDQKVRVRFVRKVYTILLIQLLVTLAV  
VALFTFCDPVKDYVQANPGWYWASYAVFFATYLTACC SGPRRHFPWNLILLTVFTLSMA  
YLTGMLSSYYNTTSVLLCLGITALVCLSVTVFSFQTKFDFTS CQGVLFVLLMTLFFSGLI  
LAILLPFQYVPWLHAVYAALGAGVFTLFLALDTQLLMGNRRHSLSPEEYIFGALNIYLDI  
IYIFTFFLQLFGTNRE

>sp|Q9HC24|LFG4\_HUMAN Protein lifeguard 4 OS=Homo sapiens GN=TMBIM4 PE=1 SV=3  
MADPDPRYPRSSIEDDFNYGSSVASATVHIRMAFLRKVYSILSLQVLLTTVTSTVFLYFE  
SVRTFVHESPALILLFALGSLGLIFALILNRHKYPLNLYLLFGFTLLEALTAVVVVTFYD  
VYIILQAFILTTTVFFGLTVYTLQSKKDFSKFGAGLFALLWILCLSGFLKFFFYSEIMEL  
VLAAAGALLFCGFIIYDTHSLMHKLSPEEYVLA AISLYLDIINFLHLLRFLEAVNKK

>sp|Q5SZI1|LRAD2\_HUMAN Low-density lipoprotein receptor class A domain-containing protein  
2 OS=Homo sapiens GN=LDLRAD2 PE=2 SV=1  
MEACCLLQLPQRLLLGAAALTATALETADLAELCGQTWQGDGLLRSHAASRRFYFVAP  
DTDCGLWVQAAAPGDRIRFQFRFFLVYSLTPAPPALNTSSPAPADPCAPGSYLQFYEGPP  
GAPRPLGSPLCGLNIPVPVASSGPFLGLRLVTRGRQPRVDFVGEVTSFRLGPCGAYFRCQ  
NGRCIPSSLVCDPWGMDNCGDSDQGSWSPADCRGSPSPVPSQTGSTDAHTSRSLTPSPAL  
GSAGSLWIAAERSSPAGRDPTRQDAALEGSTE

>sp|Q15048|LRC14\_HUMAN Leucine-rich repeat-containing protein 14 OS=Homo sapiens  
GN=LRRC14 PE=2 SV=1  
MHTLVFLSTRQVLQCQPAACQALPLLPRELFPLLFKVAFMDKKTIVLREL VHTWPFPLLS  
FQQLQECAHCSRALLQERPSTESMQAVILGLTARLHTSEPGASTQPLCRKHALRVLDMT  
GLLDDGVEQDPGTMSMWDTAAVARTCIAQQQGAAEPGPAPIPVEVRVDLRVNRASYAF  
LREALRSSVGSPLRLCCRD LRAEDLPMRNTVALLQLLDAGCLRRVDLRFNNLGLRGLSVI  
IPHVARFQHLASRLHYVHGDSRQPSVDGEDNFRYFLAQMGRTCLRELSMGSSLLSGRL  
DQLLSTLQSPLESL ELAFCALLPEDLRFLARSPHAAHLKKLDLSGNDLSGSQ LAPFQGLL  
QASAATLLHLELTECQLADTQLLATLPILTQCASRLYLGLYGNPLSMAGLKELLRDSVAQ  
AELRTVVHPFPVDCYEGLPWPPPASVLEASINEEK FARVEAELHQLLLASGRAHVLWTT  
DIYGRLAADYFSL

>sp|Q8N6Y2|LRC17\_HUMAN Leucine-rich repeat-containing protein 17 OS=Homo sapiens  
GN=LRRC17 PE=2 SV=1  
MRVVTIVILLCFCKAAELRKASPGSVRSRVNHGRAGGGRRGSNPVKRYAPGLPCDVITYL  
HEKYLDCQERKL VYVLPGW PQDLLHMLLARNKIRTLKNNMFSKFKKLKSLDLQQNEISKI  
ESEAFFGLNKLTTLLQHNIKVLTEEVIYTPLLSYLRLYDNPWHCTCEIETLISMLQI  
PRNRNLGNyakCESPQEKNKKLRQIKSEQLCNEEEKEQLDPKQVSGRPPVIKPEVDST  
FCHNYVFPIQTLDCRKELKKVPNNIPDIVKLDLSYNKINQLRPKEFEDVHELKKLNL  
SNGIEFIDPA AFLGLTHLEELDLSNNSLQNFYGVLEDLYFLKLLWLRDNPWRCDYNIHY  
LYYWLKHHYNVHFNGLCKTPEEYKGWSVGKYIRSYEECPKDKLPAYPESFDQDTEDE  
WEKKHRDHTAKKQSVIITIVG

>sp|Q9C0I9|LRC27\_HUMAN Leucine-rich repeat-containing protein 27 OS=Homo sapiens  
GN=LRRC27 PE=2 SV=2  
MEGSSSYEVPSVAAADLEEGAGQTRSLPATPSKDVHKGVGGIIFSSSPILDLSEGLCRL  
EEVFRIPSLQQLHLQRNALCVIPQDFFQLLPNLTWLDLRYNRIKALPSGIGAHQHLKTLL  
LERNPIKMLPVELGSVTTLKALNLRHCPLEFPPLVQKGLVAIQRFLRMWAVEHSLPRN  
PTSQEAPPVREMTLRDLPSGLELSGDHASNQGAVNAQDPEGAVMKEKASFLPPVEKPDL  
SELKRSADSSSENWPSEEEIRRFWKL RQEI VEHVKADVLGDQLLTRELPPNLKAALNIEKE  
LPKPRHVFRRTASSRSILPDLLSPYQMAIRAKRLEESRAAALRELQEKQALMEQQRREK  
RALQEWREARQMRKRKEELSKLLPPRRSMVASKIPSATDLIDNRKVPLNPPGKMKPSKE  
KSPQASKEMSALQERNLEEKIKQHVLQMQRRRFHGQAPLEEMRKAEDLEIATELQDEV  
LKLKLGTLNKDRRRAALTGNLSLGLPAAQPQNTFFNTKYGESGNVRRYQ

>sp|Q8WV35|LRC29\_HUMAN Leucine-rich repeat-containing protein 29 OS=Homo sapiens  
GN=LRC29 PE=1 SV=1

MYSSGWPAGAAEPRHGRGRELAAQALGCMHGAPSQLASLSLAHCSSLKSRPELEHQASGTK  
DACPEPQGPSLLTLRALQELDLTACSKLTDASLAKVLQFLQLRQLSLLPELTDNGLVA  
VARGCPSLEHLALSHCSRLSDKGWAQAASSWPRLQHLNLSSCSQLIEQTLDAGQACRQL  
RVLDVATCPGINMAAVRRFQAQLPQVSCVQSRFVGGADLTTL

>sp|Q5VUJ6|LRCH2\_HUMAN Leucine-rich repeat and calponin homology domain-containing  
protein 2 OS=Homo sapiens GN=LRCH2 PE=2 SV=2

MAASQGGGGNSGGGGCGGGSSGGCGTAGGGGGGAGGGGGGGGTLVPIPVPTLFGQPF  
PNGPPWNPGLSQPHQTVRSLDRALEEAGSSGILSLSGRKLRFPGSGYDLTDTTQADLSR  
NRFTEIPSDVWLFAPLETNLNHYNCIKTIPEAIKNLQMLTYLNISRNLLSTLPKYLFDLF  
LKVLVVSNNKLVSIPEEIGKLDLMELDISCNEIQVLPQQMGKHLRELNIRRNHLHVL  
PDELGDPLVKLDFSCNKVTEIPVCYRKLHHLQVILDNNPLQVPPAQICLKGVHIFKY  
LNIQACCRMDKKPDSLPLSKRMPSQPLTDSMEDFYPNKNHGPDSGIGSDNGEKRLST  
TEPSDDDTVSLHSQVSESREQTSRNDSHIIGSKTDSQKDQEVYDFVDPNTEDVAVPEQG  
NAHIGSFVSFFKGKEKCEKSRKNEELGDEKRLEKEQLLAEEDDDLKEVTDLRKIAAQL  
LQQEQKNRILNHSTSVMRNPKQTVCEKSVSADEVNSPLSPLTWQPLENQKDQIDEQPW  
PESHPIIWQSEERRRSKQIRKEYFKYKSMRKSSGNENDEQSDNANMSTQSPVSSEED  
RTDGFHSHPFGLKPRSAFSRSSRQEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRL  
KVILPDDIGAALMDGVVLCNLHNRPRSVASIHVPSPAVPKLSMAKCRNRNENFLDACK  
KLGVSQERLCLPHHILEERGLVKVGTVQALLELPPTKASQLSVA

>sp|Q9P244|LRFN1\_HUMAN Leucine-rich repeat and fibronectin type III domain-containing  
protein 1 OS=Homo sapiens GN=LRFN1 PE=1 SV=2

MAPGPFSSALLSPPPAALPFLLLLWAGASRGQPCPGRCICQNVAPTLMCAKTGLLFVP  
PAIDRRVVELRLTDNFIAAVRRRDFANMTSLVHLTLNRNTIGQVAAGAFADLRALRALHL  
DSNRLAEVRGDQLRGLGNLRHLILGNNQIRRVESAADFALSTVEDLDLSYNNLEALPWE  
AVGQMVNLNTLTLDHNLIDHIAEGTFVQLHKLVRDLMTSNRLHKLPPDGLFLRSQGTGPK  
PPTPLTVSFGGNPLHCNCELLWLRRLTREDDLETCAPEHLTDRYFWSIPEEEFLCEPPL  
ITRQAGGRALVVEGQAVSLRCRAVGDPPEPVVHWVAPDGRLLGNSSRTRVRGDGTLDTIT  
TLRDSGTFTCIASNAAGEATAPVEVCVPLPLMAPPPAAPPPLTEPGSSDIATPGRPGAN  
DSAAERRLVAAELTSNSVLIRWPAQRVPVGRIMYQVQYNSSVDDSLVYRMIPSTSQTFLV  
NDLAAGRAYDLCVLAVYDDGATAPATRVVGCVQFTTAGDPAPCRPLRAHFLGGTMIIAI  
GGVIVASVLVFIVLLMIRYKVYGDGDSRRVKGSRLPRVSHVCSQTNGAGTGAAQAPALP  
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EESRAAVGPRRSRSGALEPPTSAPPTLALVPGGAAARPRPQQRYSFDDYDYGALFQSHSYP  
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>sp|Q9ULH4|LRFN2\_HUMAN Leucine-rich repeat and fibronectin type-III domain-containing  
protein 2 OS=Homo sapiens GN=LRFN2 PE=1 SV=2

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RGLVNLQHLIVNNNLGGIADAEFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSL  
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GNPLHCNCELLWLRRLERDDDLTCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLIV  
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AANAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGSGGGEPPKS  
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LVSGTGYDLCLVAMWDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGG  
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ASLDLKSQRKEELDSRTPAGRGAGTSARGHHSREPLLGPPAARARSLLPLPLEGKAKR  
SHSFDMGDFAAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGS  
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>sp|Q3SXY7|LRIT3\_HUMAN Leucine-rich repeat, immunoglobulin-like domain and transmembrane domain-containing protein 3 OS=Homo sapiens GN=LRIT3 PE=1 SV=3

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PWA  
SLDMP  
LLR  
TDL  
HNN  
KITS  
VPNE  
ALRY  
LKN  
LAY  
LDL  
SSN  
RLT  
TL  
PPD  
FLES  
WTH  
LV  
STPS  
GVL  
DL  
SPS  
RI  
IL  
GL  
QDN  
PW  
FCD  
CH  
ISK  
MIEL  
SKV  
VD  
PAI  
VL  
LD  
PL  
MTC  
SE  
PER  
LTG  
IL  
FQ  
RAE  
LEH  
CL  
KPS  
VMT  
SAT  
KIMS  
ALGS  
NVLL  
RCD  
ATG  
FPT  
PQ  
ITW  
TRSD  
SSP  
VNY  
TVI  
QES  
PEE  
GVR  
WS  
IM  
SLT  
GIS  
SKD  
AGD  
YK  
CAK  
NLAG  
MSE  
AVV  
TV  
TVL  
GIT  
TT  
PI  
PDT  
SER  
TGD  
HPE  
WDV  
QPG  
SGR  
STS  
SVSS  
ASS  
YLW  
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SSFS  
AST  
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SSST  
V  
SST  
TTL  
STS  
IS  
AST  
TMAN  
KRS  
FQL  
HQG  
GKR  
NLK  
VAK  
NGS  
KL  
PPAS  
TSK  
KEE  
LAL  
LDQ  
TML  
TET  
NAA  
IEN  
LRV  
VSE  
TKES  
VT  
LTW  
NM  
INT  
HNS  
AVT  
VLY  
SKY  
GGK  
DL  
LLL  
NAD  
SSK  
NQ  
VT  
ID  
GLE  
PGG  
QY  
MAC  
VCP  
KGV  
PPQ  
KDC  
ITF  
STER  
VEG  
DDS  
QW  
SLL  
LV  
TST  
AC  
VVI  
LPL  
LIC  
FL  
LYK  
VCK  
LQ  
CK  
SEP  
FWED  
DLAK  
ETYI  
QFET  
LFP  
RSQ  
SVG  
ELW  
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RDD  
SEK  
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SVES  
QVT  
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SEG  
SRPE  
YYC

>sp|Q9Y561|LRP12\_HUMAN Low-density lipoprotein receptor-related protein 12 OS=Homo sapiens GN=LRP12 PE=1 SV=1

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PGEI  
ITIS  
FQD  
FDI  
QGS  
RRC  
NLD  
WLT  
IET  
YKN  
IES  
YR  
ACG  
STI  
PP  
PYI  
SSQ  
DHI  
WIR  
FHS  
DDN  
ISR  
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EPN  
CAC  
DQ  
FRC  
GNG  
KCIP  
EAW  
KCN  
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CGD  
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EEI  
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AN  
PPT  
AAAF  
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RFT  
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GDE  
IDCD  
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WLKY  
FYGT  
FNS  
PNYP  
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PPG  
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VIL  
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AARG  
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MCQ  
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FPC  
SRNG  
VCY  
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QNHC  
PNGS  
DEK  
NCF  
FCQ  
PGN  
FHCK  
NNRC  
VFE  
SWC  
DSQ  
DDC  
GDGS  
DEENC  
PVI  
VPT  
RVITA  
AVIG  
SLIC  
GLLL  
VIAL  
GCT  
CKLY  
SLRM  
FERR  
SFET  
QLSR  
VEA  
EL  
LRRE  
APPS  
YQ  
LIA  
QGL  
IP  
VED  
FPV  
CSPN  
QASV  
LENL  
RLAV  
RSQ  
LGFT  
SVRL  
PMAGR  
SS  
NIWNR  
IFNF  
ARS  
RHSG  
SLAL  
VSAD  
GDEV  
VPSQ  
STS  
REPER  
NHTR  
SLFS  
VES  
DDT  
DTENE  
RRDM  
AGAS  
GGVA  
APLP  
QKV  
PPT  
TAVE  
ATVG  
ACASS  
TQSTR  
GGHAD  
NGRD  
VTS  
VEPP  
SVS  
PARH  
QLTS  
ALS  
RMTQ  
GLRW  
VRFT  
LGR  
SSSL  
SQN  
QSPL  
RQLD  
NGV  
SGRE  
DDDD  
VEM  
LIP  
IS  
DGSS  
DFD  
VND  
CSR  
PLLD  
LASD  
QGQ  
GLRQ  
PYNAT  
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RPSNR  
DGPC  
ERC  
GIV  
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IPDT  
CLEV  
TLKN  
ETS  
DDE  
ALLC

>sp|Q07954|LRP1\_HUMAN Prolow-density lipoprotein receptor-related protein 1 OS=Homo sapiens GN=LRP1 PE=1 SV=2

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QHHCVP  
TLDG  
PTCY  
CNSS  
FQLQ  
ADGK  
TCKD  
FDECS  
VYGT  
CSQL  
CTNT  
DGSF  
ICGC  
VEGYL

LQPDNRSCAKNEPVDPRPPVLLIANSQNILATYLSGAQVSTITPTSTRQTTAMDFSANE  
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DDRIFVCNRNGDTCVTLLDLELYNPKGIALDPAMGKVFFTDYQGIPKVERCDMDGQNRK  
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>sp|P98164|LRP2\_HUMAN Low-density lipoprotein receptor-related protein 2 OS=Homo sapiens  
GN=LRP2 PE=1 SV=3

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CANKRCIPESWQCDTFNDCEDNSDESSHCASRTCRRPGQFRCANGRCIPQAWKCDVDNDC  
GDHSDEPIEECMSSAHLCDNFTEFSCKTNYRCIPKWAVCNGVDDCRDNSDEQGCEERTCH  
PVGDFRCKNHHCIPLRWQCDGQNDCGDNDSEENCAPRECTESEFRVCNQQCIPSRWICDH  
YNDGDNNDERDCEMRTCHPEYFQCTSGHCVHSELKCDGSADCLDASDEADCPTRFPDGA  
YCQATMFECKNHVCIPPYWKCDGDDDCGDSDEELHLCLDVPCNSPNRFRCDNNRCIYSH  
EVCNGVDDCGDGTDETEEHCKRPTPKPCTEYKYKCGNGHCIPHDNVCDADDGCDWDEL  
GCNKGKERTCAENICEQNTQLNEGGFICSCTAGFETNVFDRTSCLDINECEQFGTCPQH  
CRNTKGSYECVADGFTSMSDRPGKRCAAEGSSPLLLPDNVIRKYNLSSERFSEYLQD  
EEYIQAVDYDWDPKDIGLSVYYTVRGEGRFGAIKRAYIPNFESGRNNLVQEVDLKLKY  
VMQPDGIAVDWVGRHIYWSVKNKRIEVAKLDGRYRKWLISTDLQPAAI AVNPKLG LMF  
WTDWGKEPKIESAWMNGEDRNILVFEDLGWPTGLSIDYLNNDRIYWSDFKEDVIETIKYD  
GTDRRVIAKEAMNPYSLDIFEDQLYWISKEKGEVWKQNKFGQKKEKTLVVPWLTVQRI  
FHQLRYNKSVPNLCKQICSHLCLLRPGGYSCACPQGSSFIEGSTTECDAAIELPINLPPP  
CRCMHGGNCYFDETDLPKCKCPSGYTGKYCEMAFSKGISP GTTAVAVLLTILLIVVIGAL  
AIAGFFHYRRTGSLPALPKPLSSLVKPSENGNGVTFRSGADLNMDIGVSGFGPETAI  
DRSMAMSEDFVMEMGKQPIIFENPMYSARDSAVKVVQPIQVTVSENVDNKNYGSPINPSE  
IVPETNPTSPAADGTQVTKWNLFKRKSKQTTNFENPIYAQMENEQKESVAATPPSPSLP  
AKPKPPSRDPTPTYSATEDTFKDTANLVKEDSEV

>sp|075096|LRP4\_HUMAN Low-density lipoprotein receptor-related protein 4 OS=Homo sapiens  
GN=LRP4 PE=1 SV=4

MRRQWGALLGALLCAHGLASSPECACGRSHFTCAVSALGECTCIPAQWQCDGDNDCGDH  
SDEGDCILPTCSPLDFHCDNGKCIIRSWVCDGDNDCEDDSDQDCPPRECEDEFPQCNG  
YCIRSLWHCDGDNDCGDNDSEQCDMRKCSDEKFRCSGSCIAEHWYCDGDTCKDGSDEE  
NCPSAVPAPPCNLEEFQCAYGRCILDYHCDGDDDCGDSDESDCSSHQPCRSGEFMCDS  
GLCINAGWRCDGDADCDQSDERNCTTSMCTAEQFRCHSGRCVRLSWRCDGEDDCADNSD  
EENCENTGSPQCALDQFLCWNGRCIGQRKLCNGVNDCGDNDSESPQQNCRPTGEENCNV  
NNGGCAQKQCMVRGAVQCTCHTG YRLTEDGHTCQDVNECAEEGYCSQGCTNSEGAFQCWC  
ETGYELRPDRRSCKALGPEPVLLFANRIDIRQVLP HRSEYTL LNNLENAIALDFHHRRE  
LVFWSVDTLDRILRANLNGSNVEEVVSTGLESPGGLAVDWVHDKLYWTDSGTSRIEVANL  
DGAHRKVLLWQNLEKPRAIALHPMEGTIYWTDWGNTPRIEASSMDGSGRRIIADTHLFWP  
NGLTIDYAGRRMYWVDAKHVIERANLDGSHRKAVISQGLPHPF AITVFEDSLYWTDWHT  
KSINSANKFTGKNQEIRNKLHFPMDIHTLHPQRQPAGKNRCGDNNGGCTHLCLPSGQNY  
TCACPTGFRKISSHACAQSLDKFLFARRMDIRRISFDTEDLSDDVIPLADVRSVALDW  
DSRDDHVYWTDVSTDITISRAKWDGTGQEVVVDTSLESPAGLAIDWVTNKLYWTDAGTDRI  
EVANTDGSMTVLIWENLDRPRDIVVEPMGGYMYWTDWGASPKIERAGMDASGRQVISS  
NLTPWNGLAIDYGSQRLYWADAGMKTIEFAGLDGSKRKVLIGSQLPHPFGLTYGERIYW  
TDWQTKSIQSADRLTGLDRETQLQENLMDIHVFHRRRPVSTPCAMENG GCSHLC LRS  
PNPSGFSCTCPTGINLLSDGKTCSPGMNSFLIFARRIDIRMVSLDIPYFADVVPINITM  
KNTIAIGVDPQEGKVYWSSTLHRTSRANLDGSQHEDIITGLQTTDGLAVDAIGRKVYW  
TDTGTNRIEVGNLDGSMRKVLVWQNLDSPRAIVLYHEMGFMYWTDWGENAKLERSGMDGS  
DRAVLINNNLWPNGLTVDKASSQLLWADAHTERIEAADLNGANRHTLVSPVQHPYGLTL

LDSYIYWDWQTRSIHRADKGTGSNVILVRSNLPGLMDMQAVDRAQPLGFNKCGRNGGC  
SHLCLPRPSGFSACPTGIQLKGDGKTCDPSPETYLLFSSRGSIRRISLDTSDHTDVHVP  
VPELNNVISLDYSDVGKVVYTDVFLDVIRRADLNGSNMETVIGRGLKTTDGLAVDWVAR  
NLYWTDTRNTIEASRLDGSCKVLINNSLDEPRAIAVFPKGYLFTWDWGHIAKIERAN  
LDGSEKVLINTDLGWPNGLTLDYDTRRIYWDAHLDRIESADLNGKLRQVLVSHVSHPF  
ALTQQDRWIYWDWQTKSIQRVDKYSGRNKETVLANVEGLMDIIVVSPQRQTGTNACGVN  
NGGCTHLCFARASDFVCACPEPDSRPCSLVPGLVPPAPRATGMSEKSPVLPNTPTTLY  
SSTTRTRTSLEEVEGRCSERDARLGLCARSNDVPAAPGEGLHISYAIGGLSILLILVV  
IAALMLYRHKKSFTDPGMGNLTYSNPSYRTSTQEVKIEAIPKPAMYNQLCYKKEGGPDH  
NYTKEKIKIVEGICLLSGDDAEWDDLKQLRSSRGGLLRDHVCMKTDTVSIQASSGSLDDT  
ETEQLLQEEQSECSSVHTAATPERRGSLPDTGWKHERKLSSESQV

>sp|A4QPB2|LRP5L\_HUMAN Low-density lipoprotein receptor-related protein 5-like protein  
OS=Homo sapiens GN=LRP5L PE=2 SV=2

MEGHVYWDDEVWAIIRRAYLDGSGAQTLINTKINDPDDIAVNWVARSLYWTHTGTEHIEV  
TCLNSTSHKILVSEDMDPEPRAIALHPMGLTYWIDWGENPEIKRANLDRQELRVLVNASL  
GWPNGLALDLQEGKLYWGDAKTDKIEAISVDETKRQTLLKDKLPHIFRFTLLGDFIYWTA  
WQHHSIKRVHKVKANRDVIIDQLPDLMLKAVNVDKVVGTPHADRNNGAATCASSRPTQ  
PGLAAPSRAWNC

>sp|075197|LRP5\_HUMAN Low-density lipoprotein receptor-related protein 5 OS=Homo sapiens  
GN=LRP5 PE=1 SV=2

MEAAPPGPWPLLLLLLLLLALCGCPAPAAASPLLLFANRRDVRLVDAGGVKLESTIVVS  
GLEDAAAVDFQFSKGAVYWTDVSEEAIKQTYLNQTGAAVQNVVISGLVSPDGLACDWVGK  
KLYWTDSETNRIEVANLNGTSRKVLFWQDLQDPRAIALDPAHGYMYWTDWGETPRIERAG  
MDGSTRKIIVDSDIYWPNGLTIDLEEKLYWADAKLSFIHRANLDGSFRQKVVEGSLTHP  
FALTLSGDTLYWTDWQTRSIHACNKRKTGGKRKEILSALYSPMDIQVLSQERQPFHTRCE  
EDNGGCSHLCLLSPSEPFYTCACPTGVQLQDNGRTCKAGAEVLLLARRTDLRRISLDTP  
DFTDIVLQVDDIRHAIAIDYDPLEGYVYWTDDEVRAIRRAYLDGSGAQTLVNTEINDPDG  
IAVDWVARNLYWTDGTDRIEVTRLNGTSRKILVSEDLDEPRAIALHPVMGLMYWTDWGE  
NPKIECANLDGQERRVLVNASLGWPNGLALDLQEGKLYWGDAKTDKIEVINVDGTKRRTL  
LEDKLPHIFGFTLLGDFIYWTDWQRRSIERVHKVKASRDVIIDQLPDLMLKAVNVAKV  
GTNPCADRNGGCSHLCFFTPHATRCGCPIGLELLSDMKTCIVPEAFVFTSRAAIHRISL  
ETNNNDVAIPLTGVEKASALDFDVSNNHIYWTDVSLKTI SRAFMNGSSVEHVVEFGLDYP  
EGMAVDWMGKNLYWADTGTNRIEVARLDGQFRQVLVWRDLNPRSLALDPTKGYIYWTEW  
GGKPRIVRAFMDGTCNTLVDKVGRANDLTIDYADQRLYWTDLDTNMIESSNMLGQERVV  
IADDLPHFPGLTQYSDIYWTDWNLHSIERADKTSGRNRTLIQGHLD FVMDILVFHSSRQ  
DGLNDCMHNNQGCGQLCLAIPGGHRCGCASHYTLDPSSRNCSPPTTFLLFSQKSAISRMI  
PDDQHSPDLILPLHGLRNVKAIDYDPLDKFIYWVDGRQNIKRAKDDGTQPFVLTSLSQGQ  
NPDRQPHDLSIDIYSRTLFWTCEATNTINVHRLSGEAMGVVLRGDRDKPRAIVVNAERGY  
LYFTNMQDRAAKIERAALDGTREVLFTTGLIRPVALVVDNTLGKLFVWDADLKRIESCD  
LSGANRLTLEDANIVQPLGLTILGKHLYWIDRQQQMIERVEKTTGDKRTRIQRVAHLTG  
IHAVEEVSLEEFSAHPCARDNGGCSHICIAKGDGTPRCSCPVLVLLQNLTCGEPPTCS  
PDQFACATGEIDCIPGAWRCDFPECDQSDDEEGCPVCSAAQFPCARGQCVDLRLRCDGE  
ADCQDRSDEADCAICLPNQFRCASGQCVLIKQQCDSFPDCIDGSDELMCEITKPPSDDS  
PAHSSAIGPVIGIILSLFVMGGVYFVCQRVVCQRYAGANGPFPHEYVSGTPHVPLNFIAP

GGSQHGPF TGIACGKSMSSVSLMGGRGVPLYDRNHVTGASSSSSSSTKATLYPPILNP  
PPSPATDPSLYNMDMFYSSNIPATARPYPYIIRGMAPPTTPCSTDVCDSDYSASRWKAS  
KYYLDLNSDSDPYPPPTPHSQYLSAEDSCPPSPATERSYFHLFPPPPSPCTDSS

>sp|Q14114|LRP8\_HUMAN Low-density lipoprotein receptor-related protein 8 OS=Homo sapiens  
GN=LRP8 PE=1 SV=4

MGLPEPGPLRL LALLLLLLLLLLLQLQHLAAAAADPLLGGQGP AKDCEKDQFQCRNERCI  
PSVWRCEDEDDCLDHSEDDDCPKTCADSDFTCDNGHCIHERWKCDGEEECPDGSDSESA  
TCTKQVCPAEKLSGPTSHKCPASWRCDGEKDCEGGADEAGCATLCAPHEFQCGNRSC  
AAVFVCDGDDDCGDSDERGCADPACGPREFRCGGDGGGACIPERWVCDRQFDCEDRSDE  
AAELCGRPGPGATSAPAAATASQFACRSGEVHLGWRC DGDRDCKDKSDEADCPGTCTCR  
GDEFQCGDGTCLVLAIKHCNQECPDGSD EAGCLQGLNECLHNNGGCSHICTDLKIGFEC  
TCPAGFQLLDQKTCGDIDECKDPDACSQICVNYKGYFKCECPGYEMDLLTKNCKAAAGK  
SPSLIFTNRHEVRRIDLVKRNYSLIPMLKNVVALDVEVATNRIYWCDSL SYRKIYSAYMD  
KASDPKEQEV LIDEQLHSPEGLAVDWVHKHIYWTDSGNKTSIVATVDGRRRTLFSRNLS  
EPRAIAVDPLRGFMYSWDWGDQAKIEKSGLNGVDRQTLVSDNIEWPNGITLDLLSQRLYW  
VDSKLHQLSSIDFSGGNRKT LISSTDFLSHPFGIAVFEDKVFWTDLENEAIFSANRLNGL  
EISILAENLNNPHDIVIFHELKQPRAPDACE LSVQPNGGCEYLCLPAPQISSHSPKYTCA  
CPDTMWLGPD MKRCYRAPQSTSTTTLASTMTRTPATRAPGTTVHRSTYQNHSTETPSL  
TAAVPSSVSVP RAPSISPSTLSPATSNHSQHYANEDSKMGSTVTA AVIGIIVPIVIAL  
CMSGYLIWRNWKRNKTKSMNFDNPVYRKTTEEEDEDELHIGRTAQIGHVYPAAISSFDRP  
LWAEPCLGETREPDPAPALKELFVLPGEPRSQLHQLPKNPLSELPVVKSKRVALSLEDD  
GLP

>sp|A6NJW4|LRR3C\_HUMAN Leucine-rich repeat-containing protein 3C OS=Homo sapiens  
GN=LRR3C PE=2 SV=2

MRMTSSSFVSYCTPGLCQFMAMLP TAGHLLPLLLVIGTGGTVPSQVPPRG CYVAKEAGE  
RTFRCSQAGLSAVPSGIPNDTRKLYLDANQLASVPAGAFQHLPVLEELDLSHNALHLSG  
AAFQGLEGTLRHLDLSANQLASVPVEAFVGLQIQVNLSANPWHCD CALQEVLRQVRLVPG  
TGTGIVCGSGARPDLVGQEFLLLAGEEELCGSGWG GARRSTDVALLVTMGGWLTLMVAYL  
VHYVWQNRDETRRSLKRAPVLPVRSEDSSILSTVV

>sp|Q86UE6|LRRT1\_HUMAN Leucine-rich repeat transmembrane neuronal protein 1 OS=Homo sapiens  
GN=LRRT1 PE=2 SV=2

MDFLLGLCLYLWLLRRPSGVVLC LLGACFQMLPAAPSGCPQLCRCEGRLLYCEALNLTEA  
PHNLSGLLGLSLRYNSLSEL RAGQFTGLMQLTWLYLDHNHICSVQGDAFQKLRRVKELTL  
SSNQITQLPNTTFRPMPNLRSDLSY NKLQALAPDLFHGLRKLTTLHMRANAIQFVPVRI  
FQDCRS LKFLDIGYNQLKSLARNSFAGLFKLT ELHLEHNDLVKVNFAHFPRLISLHSLCL  
RRNKVAIVVSSLDWVWNLEKMDLSGNEI EYMEPHVFETVPHLQSLQLDSNRLTYIEPRIL  
NSWKS LTSITLAGNLWDCGRNVCALASWLN NFQGRYDGNLQCASPEYAQGEDVLDVAYAF  
HLCEDGA EPTSGHLLSAVTNRSDLGPPASSATT LADGGEGQH DGT FEPATVALPGGEHAE  
NAVQIHKVVTGTMALIFSFLIVVLVLYVSWKCFPASLRQLRQCFVTQRRKQKQKQTMHQM  
AAMSAQEYYVDYKPNHIEGALVI INEYGSCTCHQQPARECEV

>sp|P62310|LSM3\_HUMAN U6 snRNA-associated Sm-like protein LSm3 OS=Homo sapiens  
GN=LSM3 PE=1 SV=2

MADDVDQQT TTTVEEPLDLIRLSLDERIYVKMRNDREL RGR LHAYDQHLNMILGDVEET  
VTTIEIDEET YEEIYKSTKRNI PMLFVRGDGVVLVAPPLRVG

>sp|Q8N8F7|LSME1\_HUMAN Leucine-rich single-pass membrane protein 1 OS=Homo sapiens  
GN=LSMEM1 PE=1 SV=1

MTHSSQDTGSCGIQEDGKLYVVDSTINDLNKLNLCPAGSQHLFPLEDKIPVLGTNSGNGSR  
SLFFVGLLIVLIVSLALVFFVIFLIVQTGNKMDDVSRRLTAEGKDIDDLKRINNMIVKRL  
NQLNQLDSEQN

>sp|Q14766|LTBP1\_HUMAN Latent-transforming growth factor beta-binding protein 1 OS=Homo sapiens  
GN=LTBP1 PE=1 SV=4

MAGAWLRWGLLLWAGLLASSAHGRLRRITYVVHPGGLAAGALPLSGPPRSRTFNVALNA  
RYSRSSAAAGAPSRASPGVPSETRTRTSKPGGAALQGLRPPPPPPPEPARPAVPGGQLHP  
NPGGHPAAAPFTKQGRQVVRSKVPQETQSGGGSRLQVHQKQLQGVNVCGRCCCHGWSKA  
PGSQRCTKPCVPPCQNGMCLRPQLCVCKPGTKGKACETIAAQDTSSPVFGGQSPGAAS  
SWGPPQAAKHTSSKKADTLPRVSPVAQMTLTLKPKPSVGLPQQIHSQVTPLSSQSVVIH  
HGQTQEYVLKPKYFPAQKGISGEQSTEGSFPLRYVQDQVAAPFQLSNHTGRIKVVFTPSI  
CKVTCTKGSCQNSCEKGNNTTLISENGHAADTLTATNFRVVICHLPCMNGGQCSSRDCKCQ  
CPPNFTGKLCQIPVHGASVPKLYQHSQQPGKALGTHV IHSTHTLPLTVTSQQGVKVKFPP  
NIVNIHVKHPPEASVQIHQVSRIDGPTGQKTKEAQPQQSVSYQGLPVQKTQTIHSTYSH  
QQVIPHVPVAAKTQLGRCFQETIGSQCGKALPGLSKQEDCCGTVGTSWGFNKCQKCPKK  
PSYHGYNQMMELPGYKRVNNTFCQDINECQLQGVCPNGECLNTMGSYRCTCKIGFGPDP  
TFSSCVPDPPVISEEKGPCYRLVSSGRQCMHPLSVHLTKQLCCCSVGKAWGPHCEKCPLP  
GTAAFKEICPGMGYTVSGVHRRRIIHHVKGKPVFVKPKNTQPVAKSTHPPPLPAKEEP  
VEALTFSREHGPGAEPVATAPPEKEIPSLDQEKTKLEPGQPQLSPGISTIHLPQFPV  
VIEKTSPPVPVEVAPEASTSSASQVIAPTQVTEINECTVNPDICGAGHCINLPVRYTCIC  
YEGYRFSEQQRKCDIDECTQVQHLCSQGRCENTEGSFLCICPAGFMASEEGTNCIDVDE  
CLRPDVCGEHCVNTVGAFRCEYCDSGYRMTQRGRCEDIDECLNPSTCPDEQCVNSPGSY  
QCVPCTEGFRGWNGCLDVDECLEPNVCANGDCSNLEGSYMCCHKGYTRTPDHKHCRDI  
DECQQGNLCVNGQCKNTEGSFRCTCGGYQLSAAKDQCEDIDECQHRHLCAHGQCRNTEG  
SFQCVCDQGYRASGLGDHCEDINECLEDKSVCQRGDCINTAGSYDCTCPDGFQLDDNKTC  
QDINECEHPGLCGPQGECLNTEGSFHCVCQQGFSISADGRTCEDIDECVNNTVCDSHGFC  
DNTAGSFRCLCYQGQAPQDGGQCVDVNECELLSGVCGEAFCENVEGSFLCVCADENQEY  
SPMTGQCRSRTSTDLDVDVDQPKKEKKECYYNLDASLCDNVLAPNVTKECCCTSGVGW  
GDNCEIFPCPVLGTAEFTEMCPKKGFPVPAGESSEAGGENYKDADECLLFQGEICKNGF  
CLNTRPGYECYCKQGYDYPVKLQCFDMDECQDPSSCIDGQCVNTEGSYNCFCTHPMVL  
ASEKRCIRPAESNEQIEETDVYQDLQWEHLSDEYVCSRPLVGKQTTYTECCCLYGEAWGM  
QCALCPLKSDDYAQLCNIPVTGRRQPYGRDALVDFSEQYTPADPYFIQDRFLNSFEEL  
QAEECGILNGCENGRCVRVQEGYTCDCFDGYHLDTAKMTCVDVNECDELNNRMSLCKNAK  
CINTDGSYKCLCLPGYVPSDKPNYCTPLNTALNLEKDSLE

>sp|Q9NS15|LTBP3\_HUMAN Latent-transforming growth factor beta-binding protein 3 OS=Homo sapiens  
GN=LTBP3 PE=1 SV=4

MPGPRGAAGGLAPEMRGAGAAGLLALLLLLLLLLLLGLGGRVEGGPAGERGAGGGGALARE  
RFKVVFAFVICKRTCLKGQCRDSCQQGSNMTLIGENGHSTDTLTSGSFRVVVCPLPCMNG  
GQCSSRNQCLCPPDFTGRFCQVPAGGAGGGTGGSGPGLSRTGALSTGALPPLAPEGDSVA  
SKHAIYAVQVIADPPGPGEGPPAQHAAFLVPLGPGQISAEVQAPPPVNVVRVHHPPEASV  
QVHRIESSNAESAAPSQHLLPHPKPSHPRPPTQKPLGRCFQDTLPKQPCGSNPLPGLTKQ  
EDCCGSIGTAWGQSKCHKCPQLQYTGVCQKPGPVRGEVGADCPQGYKRLNSTHCQDINECA

MPGVCRHGDCLNNPGSYRCVCPPGHSLGPSRTQCIADKPEEKSLCFRLVSPEHQCQHPLT  
TRLTRQLCCCSVGKAWGARCQRCPTDGTAAFKEICPAGKGYHILTSHTLTIIQGESDFSL  
FLHPDGPQKQQLPESPSQAPPPEDETEERGVTDDSPVSEERSVQQSHPTATTTTPARPYP  
ELISRSPPTMRWFLPDLPPSRSAVEIAPTQVTETDECRLNQNICGHGECVPGPPDYSCH  
CNPGYRSHPHRYCVDVNECEAEPCGPGRGICMNTGGSYNCHNRYRLHVGAGGRSCVD  
LNECAKPHLCGDGGFCINFPGHYKNCNYPGYRLKASRPVCEIDECRDPSSCPDGKCEN  
KPGSFKCIACQPGYRSQGGGACRDVNECAEGSPCSPGCENLPGSFRCTCAQGYAPAPDG  
RSCLDVDECEAGDVCNIGCSNTPGSFQCCLSGYHLSRDRSHCEDIDECDFPAACIGGD  
CINTNGSYRCLCPQHRLVGGGRKQDIDECSDPSLCLPHGACKNLQGSYVCVDEGFTP  
TQDQHGCEEVEQPHHKKECYLNFDDTVFCDVSLATNVTQQECCCSLGAAGWDHCEIYPCP  
VYSSAEFHSCLPDGKGYTQDNNIVNYGIPAHRDIDECMLFGSEICKEGKCVNTQPGYECY  
CKQGFYYDGNLLECDVDVDECLDESNCNRCNGVCENTRGGYRCACTPPAEYSPAQRQCLSP  
MDVDECQDPAACRPGRCVNLPGSYRCECRPPWVPGPSGRDCQLPESPAERAPERDDVCWS  
QRGEDGMCAGPLAGPALTFDDCCCRQGGRGWAQCRPCPPRGAGSHCPTSQSESNSFWDT  
PLLLGKPPRDEDSSEEDSDECRCVSGRCVPRPGGAVCECPGGFQLDASRARCVDIDECRE  
LNQRGLLCKSERCVNTSGSFRVCCKAGFARSRPHGACVPQRRR

>sp|Q8N2S1|LTBP4\_HUMAN Latent-transforming growth factor beta-binding protein 4 OS=Homo sapiens GN=LTBP4 PE=1 SV=2

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SRRSRCIRAFCRVRSCQPKKAGPQRCLNPVPAVPSPSPSVRKRQVSLNWQPLTLQEARA  
LLKRRRPRGPGGRGLLRRRPPQAPAGKAPVLCPLICHNGGVCVKPDRCLCPPDFAGKFC  
QLHSSGARPPAPAVPGLTRSVYTMPLANHRDDEHGVASMSVHVEHPQEASVVVHQVERV  
SGPWEEADAEAVARAEEAAAEAAAPYTVLAQSAPREDGYSDASGFGYCFRELGGECAS  
PLPGLRTQEVCCRAGLAWGVHDCQLCSERLGNSEVSAPDGPCTGFERVNGSCEDVDE  
CATGGRCQHGEACNTRGGYTVCPCDGFLLDSSRSSCISQHVISEAKGPCFRVLRDGGCSL  
PILRNITKQICCCSRVGKAWGRGQCLCPPFGSEGFREICPAGPGYHYSASDLRYNTRPLG  
QEPPRVSLSQPRTLPAISRPSAGFLPTHRLEPRPEPRPDPRPGPELPLPSIPAWTGPEIP  
ESGPSSGMCQRNPQVCGPGRCISRPSGYTCADSGFRLSPQGTRCIDVDECRRVPPPCAP  
GRCENSPGSFRCVCGPGFRAGPAAECLDVDECHRVPPPCDLGRCENTPGSFLCVCAPAGY  
QAAPHGASCQDVDECTQSPGLCGRGACKNLPGSFRVCVPAGFRGSACEEDVDECAQEPPP  
CGPGRCDNTAGSFHCACAPAGFRSRGPGAPCQDVDECARSPPPCTYGRCENTEGSFQCVCP  
MGFQPNTAGSECEDVDECENHLACPGQECVNSPGSFQCRTCPSGHHLHRGRCTDVDECSS  
GAPPCGPHGHCTNTEGSFRCSAPGYRAPSGRPGPCADVNECLEGDFCFPHGECLNTDGS  
FACTCAPGYRPGPRGASCLDVDECSEEDLCQSGICTNTDGSFECICPPGHRAGPDLASCL  
DVDECRERGPALCGSQRCENSPGSYRCVRDCDPGYHAGPEGTCDDVDECQEYGPEICGAQ  
RCENTPGSYRCTPACDPGYQPTPGGGCQDVDECRNRSFCGAHAVCQNLPGSFQCLCDQGY  
EGARDGRHCVDVNECETLQGVCGAALCENVEGSFLCVCNPSPEEFDPMTGRCVPPRTSAG  
TFPGSQPQAPASVLPARPPPPPLPRRPSTPRQGPVSGRRECYFDTAAPDACDNILARN  
VTWQECCCTVGEGWGSQCRIQQCPGTETAEYQSLCPHGRGYLAPSGDLSLRDQVDECQLF  
RDQVCKSGVCVNTAPGYSCYCSNGYYYHTQRLECIDNDECADEEPACEGGRCVNTVGSYH  
CTCEPPLVLDGSQRRCVSNESQSLDDNLGVCWQEVGADLVCSHPRLDRQATYTECCCLYG  
EAWGMDCALCPAQSDDFEALCNVLRPPAYSPPRPGGFGLPYEGPDLGPPYQGLPYGPE  
LYPPPALPYDPYPPPPGPFARREAPYGAPRFDMPDFEDDGGPYGESEAPAPPGPGTRWPY  
RSRDTRRSFPEPEEPPEGGSYAGSLAEPYEELEAECEGILDGCTNGRCVRVPEGFTCRCF

DGYRLDMTRMACVDINECEAEASPLCVNARCLNTDGSFRCICRPGFAPTHQPHHCAPA  
RPRA

>sp|P29376|LTK\_HUMAN Leukocyte tyrosine kinase receptor OS=Homo sapiens GN=LTK PE=1 SV=3

MGCWGQLLVWFGAAGAILCSSPGSQETFLRSSPLPLASPRDPKVSAPPSILEPASPLN  
SPGTEGSWLFSTCGASGRHGPTQTQCDGAYAGTSVVVTVGAAGQLRGVQLWRVPGPGQYL  
ISAYGAAGGKGAKNHLSTRAHGTVFVSAIFSLGLGESLYILVGQQGEDACPGGSPESQLVCL  
GESRAVEEHAAMDGSEGVPGSRRWAGGGGGGGGATYVFRVRAGELEPLLVAAGGGGRAYL  
RPRDRGRTQASPEKLENRSEAPGSGRGGAAGGGGGWTSRAPSPQAGRSLQEGAEGGGGC  
SEAWATLGWAAAGGFGGGGACTAGGGGGGYRGGDASETDNLWADGEDGVSFIIHPSSSELF  
LQLAVTENHGEVEIRRHLNCSHCPLRDCQWQAEQLAECLCPEGMELAVDNVTCMDLHK  
PPGPLVLMVAVVATSTLSLLMVCVGLILVKQKKWQGLQEMRLPSPELELSKLRTSAIRTA  
PNPYQCQVGLGPAQSWPLPPGVTEVSPANVTLLRALGHGAFGEVYEGVLIGLPGDSSPLQ  
VAIKTLPELCSPQDELDLMEALIIISKFRHQNIVRCVGLSLRATPRLILLEMSGGDMKS  
FLRHSRPHLGQSPSLVMRDLLQLAQDIAQGCHYLEENHFIHRDIAARNCLLSCAGPSRVA  
KIGDFGMARDIYRASYRRGRDALLPVKWPPEAFLEGIFTSKTDSSWFGVLLWEIFSLG  
YMPYPGRTNQEVLDFFVGGGRMDPPRGCPGVYRIMTQCWQHEPELRPSFASILERLQYC  
TQDPDVLNLLPMELGPTPEEEGTSGLGNRSLLECLRPPQPQELSPEKLKSWGGSPLGPWL  
SSGLKPLKSRGLQPQNLWNPTYRS

>sp|O94822|LTN1\_HUMAN E3 ubiquitin-protein ligase listerin OS=Homo sapiens GN=LTN1 PE=1  
SV=6

MGGKNKQRTKGNLRPSNSGRAAELLAKEQGTVPGFIFGFTSQSDLGYVPAIQGAEEIDSL  
VDSDFRMVLRKLSKKDVTTKLKAMQEFMTCTERDTETVKGVLPYWPRIFCKISLDHDDR  
VREATQQAFEKLILKVKQLAPYLKSLMGYWLMAQCDITYTPAAFAAKDAFEAAFPSPKQP  
EAIAFCCKDEITSVLQDHLIKETPDTLSDPQTVPEEEREAKFYRVVTCSSLALKRLLCLLP  
DNELDSLEEKFKSLLSQNKFWYKGHSVPQIRSAYFELVSALCQRIPQLMKEEASKVSPS  
VLLSIDSDPIVCPALWEAVLYTLTTIEDCWLHVNAKKSVPKLSVIREGGRGLATVIY  
PYLLPFISKLPQSITNPKLDFFKNFLTSLVAGLSTERTKTSSLESSAVISAFFECLRFIM  
QQNLGEEEEIEQMLVNDQLIPFIDAVLKDPGLQHGLFNHLAETLSSWEAKADTEKDEKTA  
HNLENVLIHFWERLSEICVAKISEPEADVSVLGVSNLLQVLQKPKSSLKSSKKKNGKVR  
FADEILESNNENEKCVSSEGEKIEGWELTTEPSLTHNSSGLLSPLRKKPLEDLVCKLADI  
SINYVNERKSEQHLRFLSTLLDSFSSSRVFKMLLGDEKQSIVQAKPLEIAKLVQKNPAVQ  
FLYQKLIGWLNEDQRKDFGFLVDILYSALRCCDNDMERKKVLDLTKVDLKWNSLLKIIIE  
KACPSDDKHALVTPWLKGDILGEKLVNLADCLCNEDLESRVSSSESHFSERWTLLSLVLSQ  
HVKNLYLIGDVYVERIIVRLHETLFTKTKLSEAESSDSSVSFICDVAYNYFSSAKGCLLM  
PSSEDLTLTLFQLCAQSKEKTHLPDFLICKLKNTWLSGVNLLVHQTDSSYKESTFLHLSA  
LWLKNQVQASSLDINSLQVLLSAVDDLNTLLESEDSYLMGVYIGSVMNDSEWEKMRQS  
LPMQWLHRPLLEGRLSNYECFKTDFKEQDIKTLPSHLCTSALLSKMVLIALRKETVLEN  
NELEKIIAELLYSLQWCEELDNPPIFLIGFCEILQKMNITYDNLRVLGNTSGLLQLLFNR  
SREHGTLWSLIIAKLILSRSSDEVKPHYKRKESFFPLTEGNLHTIQSLCPFLSKEEEK  
EFSACQIPALLGWTKKDLCTNGGFGHLAIFNSCLQTKSIDDGELLHGILKIIISWKKEH  
EDIFLFSCNLSEASPEVLGVNIEIIRFLSLFLKYCSSPLAESEWDFIMCSMLAWLETTSE  
NQALYSIPLVQLFACVSCDLACDLAFAFDSTTLDITGNLPVNLISEWKEFFSQGIHSLLL  
PILVTVTGENKDVSETSFQNAMLKPMCETLYISKEQLLSHKLPARLVADQKTNLPEYLQ  
TLLNTLAPLLLFRARPVQIAVYHMLYKLMPELPQYDQDNLSYGDDEEEEPALSPPAALMS

LLSIQEDLLENVLGCIPVGQIVTIKPLSEDFCYVLGYLLTWKLILTFKAASSQLRALYS  
MYLRKTKSLNKLlyHLFRLMPENPTYAETAVEVPNKDPKTFTEELQLSIRETTMLPYHI  
PHLACSVYHMTLKDLPAMVRLWWSSEKRVFNIVDRFTSKYVSSVLSFQEISSVQTSTQL  
FNGMTVKARATTREVMATYTIEDIVIELIIQLPSNYPLGSIIVESGKRVGVAVQQWRNWM  
LQLSTYLTHQNGSIMEGLALWKNNVDKRFEGVEDCMICFSVIHGFNYSLPKKACRTCKKK  
FHSACLYKWFTSSNKSTCPLCRETFF

>sp|Q96GA3|LTV1\_HUMAN Protein LTV1 homolog OS=Homo sapiens GN=LTV1 PE=1 SV=1

MPHRKKKPFIEKKKAVSFHLVHRSQRDPLAADESAPQRVLLPTQKIDNEERRAEQRKYGV  
FFDDDDYDLQHLKEPSGPSELIPSSTFSAHNRREEKEETLVIPSTGIKLPSSVFASEFEE  
DVGLLNKAAPVSGPRLDFFDPDIVAALDDDFDFFDPNLEDDFILQANKATGEEEGMDIQ  
KSENEDDSEWEDVDEKGDSDNDYDSAGLLSDEDCMSVPGKTHRAIADHLFWSEETKSRF  
TEYSMTSSVMRRNEQLTLHDERFEKFYEQYDDDEIGALDNAELEGSIQVDSNRLQEVND  
YYKEKAENCVKLNTLEPLEDQDLPMNELDESEEEEMITVVLEEAKEKWDCESICSTYSNL  
YNHPQLIKYQPKPKQIRISSKTGIPLNVLPKKGLTAKQTERIQMINGSIDLKPVSTQPRSK  
NESKEDKRARKQAIKEERKERRVEKKANKLAFKLEKRRQEKELLNLKKNVEGLKL

>sp|Q9NQ29|LUC7L\_HUMAN Putative RNA-binding protein Luc7-like 1 OS=Homo sapiens GN=LUC7L  
PE=1 SV=1

MSAQAQMRALLDQLMGTARDGDETRQRVKFTDDRVCCKSHLLDCCPHDILAGTRMDLGECT  
KIHDLLALRADYEIASKERDLFFELDAMDHLESFIAECDRRTELAKKRLAETQEEISAEVS  
AKAEKVHELNEEIGKLLAKAEQLGAEGNVDESQKILMEVEKVRAKKKEAEVEYRNSMPAS  
SFQQQKLRCVCSAYLGLHDNRRLADHFGGKLHLGFIQIREKLDQLRKTVAEKQEKRN  
QDRLRRREEREREERLSRRSGSRTDRRRRSRDRRRRRSRSTSRRERKLSRSRSRDRHR  
RHRRSRSRSHSRGHRRASRDRSAKYKFSRERASREESWESGRSERGPPDWRLSSNGKMAS  
RRSEEKEAGEI

>sp|Q538Z0|LUZP6\_HUMAN Leucine zipper protein 6 OS=Homo sapiens GN=LUZP6 PE=2 SV=1

MKSVISYALYQVQTGSLPVYSSVLTKSPLQLQTVIYRLIVQIQHLNIPSSSSSTHSSPF

>sp|P01703|LV140\_HUMAN Immunoglobulin lambda variable 1-40 OS=Homo sapiens GN=IGLV1-40  
PE=1 SV=2

MAWSPLLLTLLAHCTGSAQSVLTQPPSVSGAPGQRTISCTGSSSNIGAGYDVHWYQQQL  
PGTAPKLLIYGNSNRPSGVPDRFSGSKSGTSASLAITGLQAEDEADYYCQSYDSSLG

>sp|P01706|LV211\_HUMAN Immunoglobulin lambda variable 2-11 OS=Homo sapiens GN=IGLV2-11  
PE=1 SV=2

MAWALLLLSLLTQGTGSAQSALTQPRSVSGSPGQSVTISCTGTSSDVGGYNYVSWYQQH  
PGKAPKLMYDVSKRPSGVPDRFSGSKSGNTASLTISGLQAEDEADYYCCSYAGSYTFH

>sp|P01705|LV223\_HUMAN Immunoglobulin lambda variable 2-23 OS=Homo sapiens GN=IGLV2-23  
PE=1 SV=2

MAWALLLLTLLTQDTGSAQSALTQPASVSGSPGQSITISCTGTSSDVGSYNLVSWYQQH  
PGKAPKLMYEGSKRPSGVSNRFSKSGSGNTASLTISGLQAEDEADYYCCSYA

>sp|P01704|LV214\_HUMAN Immunoglobulin lambda variable 2-14 OS=Homo sapiens GN=IGLV2-14  
PE=1 SV=2

MAWALLLLTLLTQGTGSAQSALTQPASVSGSPGQSITISCTGTSSDVGGYNYVSWYQQH  
PGKAPKLMYEVSNRPSGVSNRFSKSGSGNTASLTISGLQAEDEADYYCSTSSSTLHS

>sp|P01717|LV325\_HUMAN Immunoglobulin lambda variable 3-25 OS=Homo sapiens GN=IGLV3-25  
PE=1 SV=2

MAWIPLLLPLLTCTGSEASYELTQPPSVSVSPGQTARITCSGDALPKQYAYWYQQKPGQ

APVLVIYKDSERPSGIPERFSGSSSGTTVTLTISGVQAEDEADYYCQSADSS

>sp|P04211|LV743\_HUMAN Immunoglobulin lambda variable 7-43 OS=Homo sapiens GN=IGLV7-43  
PE=3 SV=2

MAWTPLFLFLLTCCPGSNSQTVVTVQEPSLTVSPGGTVTLTCASSTGAVTSGYYPNWFQQK

PGQAPRALIYSTSNKHSWTPARFSGSLLGGKAALTLSGVQPEDEAEYYCLLYGGAQ

>sp|Q8NDX9|LY65B\_HUMAN Lymphocyte antigen 6 complex locus protein G5b OS=Homo sapiens  
GN=LY6G5B PE=1 SV=1

MKVHMLVGVLVMVGFTVGKVPVPDIRTCHFCLVEDPSVGCISGSEKCTISSSSLCMVITI

YYDVKVRFIVRGCGQYISYRCQEKRNTYFAEYWYQAQCCQYDYCNSWSSPQLQSSSLEPH

DRPLALPLSDSQIQWFYQALNLSLPLPNFHAGTEPDGLDPMVTLNLGLSFAELRRMYL

FLNSSGLLVLPQAGLLTPHPS

>sp|Q5SQ64|LY66F\_HUMAN Lymphocyte antigen 6 complex locus protein G6f OS=Homo sapiens  
GN=LY6G6F PE=1 SV=2

MAVLFLLLFLCGTPQAADNMQAIYVALGEAVELPCPSPTLHGDEHLSWFCSPAAGSFTT

LVAQVQVGRPAPDPGKPGRESRLRLGNYSWLWEGSKEEDAGRYWCAVLGQHHNYQNRV

YDVLVLKGSQLSARAADGSPCNVLLCSVPSRRMDSVTWQEGKGPVRGRVQSFWGSEAAL

LLVCPGEGLESPRRPRIIRCLMTHNKGVSFSLAASIDASPALCAPSTGWDMPWILMLL

LTMGQGVVILALSIVLWRQVRGAPGRDASIPQFKPEIQVYENIHLARLGPPAHKPR

>sp|O95711|LY86\_HUMAN Lymphocyte antigen 86 OS=Homo sapiens GN=LY86 PE=1 SV=1

MKGFTATLFLWTLIFPSCSGGGGKAWPTHVVCSDSGLEVLYQSCDPLQDFGFSVEKCSK

QLKSNINIRFGIILREDIKELFLDLALMSQGSSVLNFSYPICEAALPKFSFCGRRKGEQI

YYAGPVNNPEFTIPQGEYQVLELYTEKRSTVACANATIMCS

>sp|Q9HBG7|LY9\_HUMAN T-lymphocyte surface antigen Ly-9 OS=Homo sapiens GN=LY9 PE=1 SV=3

MVAPKSHTDWDWAPGFSSKPKRSQQLQIFSSVLQTSLLFLLMGLRASGKDSAPTIVVSGILG

GSVTLPLNISVDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRDLITKWSYSLCISN

LTLDAGSYKAQINQRNFEVTTEEEFTLFVYEQLQEPQVTMKSVKVSENFSCNITLMCSV

KGAEKSVLYSWTPREPHASESNGGSILTVSRTCPDPLPYICTAQNVPVQRSSLPVHVGG

FCTDPGASRGTTGETTVVGVLEPVTPLALPACRDTEKVVWLFNTSIISKEREEAATAD

PLIKSRDPYKNRVWSSQDCSLKISQLKIEDAGPYHAYVCSEASSVTSMTHVTLLIYRRL

RKPKITWSLRHSEDGICRISLTCSVEDGGNTVMYTWTPQLKEAVVSQGESHLNVSWRSSE

NHPNLTCTASNPVSRSSHQFLSENICSGPERNTKLWIGFLMVCLLCVGFISWCIWKRKG

RCSVPAFCSSQAEAPADTPEPTAGHTLYSVLSQGYEKLDTPLRPARQQPTPTSDSSSDSN

LTTEEDDRPEVHKPISGRYEVFDQVTQEGAGHDPAPEGQADYDPVTPYVTEVESVVG

TMYAQVFNLQGKTPVSQKEESSATIIYCSIRKPQVPPPPQNDLEIPESPTYENFT

>sp|O95274|LYPD3\_HUMAN Ly6/PLAUR domain-containing protein 3 OS=Homo sapiens GN=LYPD3  
PE=1 SV=2

MDPARKAGAQAAMIWTAGWLLLLLLRGAQALECYSCVQKADDGCSPNKMKTVKCAPGVDV

CTEAVGAVETIHGQFSLAVRGCSGLPGKNDRGLDLHGLLAFIQLQCAQDRCAKLNLT

SRALDPAGNESAYPPNGVECYSCVGLSREACQGTSPPVVSCYNASDHVYKGCDFGNVTLT

AANVTVSLPVRGCVQDEFCTRDGVTGPGFTLSGSCCQGSRCNSDLRNKTYFSPRIPLVR

LPPPEPTTVASTTSTSTAPVRPTSTTKMPAPTSQTPRQGEHEASRDEEPRLTGGA

AGHQDRSNSGQYPAGGPPQPHNKGCVAPTAGLAALLLAVAAGVLL



>sp|Q9Y5Y7|LYVE1\_HUMAN Lymphatic vessel endothelial hyaluronic acid receptor 1 OS=Homo sapiens GN=LYVE1 PE=1 SV=2

MARCFSLVLLTSIWTTRLLVQGSRAEELSIQVSCRIMGITLVSKKANQQLNFTEAKEA  
CRLGLSLAGKDQVETALKASFETCSYGWVGDFVVISRISPNPKCGKNGVGVLWKVPV  
SRQFAAYCYNSSDTWTNSCIPEIITTKDPIFNTQTATQTTEFIVSDSTYSVASPYSTIPA  
PTTTPPAPASTSIPRRKKLICVTEVFMETSTMSTETEPFVENKA AFKNEAAGFGGVPTAL  
LVLALLFFGAAAGLGFYVKRYKAFPTNKNQKEMIETKVVKEEKANDSNPNEESKKT  
DKNPEESKSPSKTTVRCLEAEV

>sp|Q9BRK4|LZTS2\_HUMAN Leucine zipper putative tumor suppressor 2 OS=Homo sapiens GN=LZTS2 PE=1 SV=2

MAIVQTLVPLEPAPEAATAPQAPVMGSVSSLISGRPCPGGPAPRRHHGPPGPTFFRQQD  
GLLRGGYEAQEPLCPAVPPRKAVPVTSFTYINEDFRTESPPSPSSDVEDAREQRAHNAHL  
RGPPPKLIPVSGKLEKNMEKILIRPTAFKPVLPKPRGAPSLPSFMGPRATGLSGSQGSLT  
QLFGGPASSSSSSSSSSAADKPLAFSGWASGCPSGTLSDSGRNSLSSLPTYSTGGAEPTT  
SSPGGHLPSHGSGRGALPGPARGVPTGPSHSDSGRSSSSKSTGSLGGRVAGGLLGSSTRA  
SPDSSSCGERSPPPPPPPSDEALLHCVLEGKLRDREAEQLLRDSL DENEATMCQAYEE  
RQRHWQREREALREDCAAQARAQRAQQLQLQVFQLQKEKRLQDDFAQLQEREQLER  
RCATLEREQRELGPRL EETKWEVCQKSGEISLLKQQLKESQAELVQKGSELVALRVALRE  
ARATLRVSEGRARGLQEAARARELELEACSQELQRHRQEAQLREKAGQLDAEAAGLREP  
PVPPATADPFLLAESDEAKVQRAAAGVGGS LRAQVERLRVELQRERRRGEEQRDSFEGER  
LAWQAEKEQVIRYQKQLQHNYIQMYRRNRQLEQELQQLSLELEARELADLGLAEQAPCIC  
LEEITATEI

>sp|O43283|M3K13\_HUMAN Mitogen-activated protein kinase kinase kinase 13 OS=Homo sapiens GN=MAP3K13 PE=1 SV=1

MANFQEHLSCSSSPHLPFSESKTFNGLQDEL TAMGNHPSPKLLEDQKEKGMVRELIESV  
HSPVTTTTLTSVSEDSRDQFENSVLQ LREHDESETAVSQNSNTVDGESTSGTEDIKIQF  
SRSGSGSGGFLEGLFGCLRPVWNIIGKAYSTDYKLQQQDTWEVPFEEISELQWLGSGAQG  
AVFLGKFRAEVAIKKVREQNETDIKHLRKLKHPNIIAFKGVCTQAPCYCIIMEYCAHGQ  
LYEVL RAGRKITPRLLVDWSTGIASGMNYLHLHKI IHRDLKSPNVLVTHTDAVKISDFGT  
SKELSDKSTKMSFAGTVAWMAPEVIRNEPVSEKVDIWSFGVVLWELLTGEIPYKDVDSSA  
IIWVGVSNSLHLPVPSTCPDGFKILMKQTWQSKPRNRPSFRQTLMHLDIASADVLATPQE  
TYFKSQA EWREEVKHFEKIKSEGTCIHLRDEELIRRRREELRHALDIREHYERKLERAN  
NLYMELSAIMLQLEMREKELIKREQAVEKKYPGTYKRHPVRPIIHPNAMEKLMKRKGVPH  
KSGMQTKRPDLLRSEGIPTEVAPTASPLSGSPKMSTSSSKSRYRSKPRHRRGNSRGS  
DFAAILKNQPAQENSPHTYHLQAQSQYPSLHHNSLQQQYQQPPPA MSQSHHPRLNMHG  
QDIATCANNLRYFGPAAALRSPLSNHAQRQLPGSSPDLISTAMAADCWRSSEPDKGQAGP  
WGCCQADAYDPCLQCRPEQYGS LDIPSAEPVGRSPDLSKSPAHNPLENAQSSEKTEENE  
FSGCRSESSLGTSHLGTTPALPRKTRPLQKSGDDSEEEEGEVDSEVEFPRRQRPHRCIS  
SCQSYSTFSSENFSVSDGEEGNTSDHSNSPDELADKLEDR LAEKLDDLLSQTP EIPIDIS  
SHSDGLSDKECAVRRVKTQMSLGKLCVEERGYENPMQFEESDCDSSDGECS DATVRTNKH  
YSSATW

>sp|Q9Y6R4|M3K4\_HUMAN Mitogen-activated protein kinase kinase kinase 4 OS=Homo sapiens GN=MAP3K4 PE=1 SV=2

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CKSPESDLEDFSDETNTENLYGTSPSTPRQMKRMSTKHQRNNVGRPASRSNLKEKMNAP  
NQPPHKDTGKTVENVEEYSYKQEKKIRAALRTTERDRKKNVQCSFMLDSVGGSLPKKSIP  
DVDLNKPYLSLGCSNAKLPSVSPMPIARPARQTSRTDCPADRLKFFETLRLLLKLTSVSK  
KKDREQRGQENTSGFWLNRSNELIWLELQAWHAGRTINDQDFFLYTARQAIPDIINEILT  
FKVDYGSFAFVRDRAGFNGTSVEGQCKATPGTKIVGYSTHHEHLQRQVVSFEQVKRIMEL  
LEYIEALYPSLQALQKDYEKYAAKDFQDRVQALCLWLNITKDLNQKLRLMGTVLGIKNLS  
DIGWPVFEIPSPRPSKNGEPEYEGDDTEGELKELESSTDESEEEQISDPRVPEIRQPIDN  
SFDIQSRDCISKLERLESEDDSLGWGAPDWSTEAGFSRHCLTSIYRPFVDKALKQMGLR  
KLILRLHKLMDGSLQRARIALVKNDRPVEFSEFPDPMWGS DYVQLSRTPPSSEEKCSAVS  
WEELKAMDLPSEPAFLVLCRVLLNVIHECLKRLREQRPAGEPSLLSIKQLVRECKEVLK  
GGLLMKQYYQFMLQEVLEDELEKPCDNIDAFEEDLHKMLMVYFDYMRSWIQMLQQLPQASH  
SLKNLLEEEWNFTKEITHYIRGGEAQAGKLFCDIAGMLLKSTGSFLEFGLQESCAEFWTS  
ADDSSASDEIRRSVIEISRALKELFHEARERASKALGFAKMLRKDLEIAAEFRLSAPVRD  
LLDVLKSKQYVKVQIPGLENLQMFVPDTLAEKSIILQLLNAAAGKDCSKDSDDVLIDAY  
LLLTKHGDRARDSWGTWEAQPVKVPQVETVDTLRSMQVDNLLLVMQSAHLTIQRK  
AFQQSIEGLMTLCQEQTSSQPVIAKALQQLKNDALELCNRISNAIDRVDHMTSEFDAEV  
DESESVTLQQYYREAMIQGYNFGFEYHKEVVRLMSGEFRQKIGDKYISFARKWMNYVLTK  
CESGRGTRPRWATQGFDFLQAIIEPAFISALPEDDFLSLQALMNECIGHVIGKPHSPVTGL  
YLAIHNSPRPMKVPRCHSDPPNPHLIIPTEPGFSTRMPSDARSHGSPAAAAAAA AV  
AASRPSPSGGDSVLPKSISSAHDTRGSSVPENDRLASIAAELQFRSLSRHSSPTEERDEP  
AYPRGDSSGSTRRSWELRTLISQSKDTASKLGP I EAIQKSVRLFEEKRYREMRRKNIIGQ  
VCDTPKSYDNVMHVGLRKVTFKWQRGNKIGEGYQGVYTCISVDTGELMAMKEIRFQPN  
HKTIKETADELKIFEGIKHPNLVRYFGVELHREEMYIFMEYCDEGTLEEVSRGLQEHVI  
RLYSKQITITAINVLHEHGIVHRDIKGANIFLTSSGLIKLGDGCSVKLNNAQTMPGEVN  
STLGTAAAYMAPEVITRAKGEHGGRADIWSLGCVVIEMTGKRPWHEYEHNFQIMYKVG  
GHKPPIPERLSPEGKDFLSHCLES DPKMRWTASQLLDHSFVKVCTDEE

>sp|Q99683|M3K5\_HUMAN Mitogen-activated protein kinase kinase kinase 5 OS=Homo sapiens  
GN=MAP3K5 PE=1 SV=1

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AAPGIGCPAATSSSSATRGSSVGGGSRRTTVAYVINEASQGQLVVAESEALQSLREAC  
ETVGATLETLHFGLDFGETTVLDRFYNADIAVVEMSDAFRQPSLFYHLGVRESFSMANN  
IILYCDTNSDSLQSLKEIICQKNTMCTGNYTFVPYMITPHNKVYCCDSSF MKGLTELMQP  
NFELLGPICLPLVDRFIQLLKVAQASSQYFRESILNDIRKARNLYTGKELAAELARIR  
QRVDNIEVLTADIVINLLLSYRDIQDYDSIVKL VETLEKLPTFDLASHHHVKFHYAFALN  
RRNLPGDRAKALDIMPMVQSEGQVASDMYCLVGRIYKDMFLDSNFTD TESRDHGASWFK  
KAFESEPTLQSGINYAVLLLAAGHQFESSFELRKVGVKLSLLGKKGNLEKLQSYWEVGF  
FLGASVLANDHMRVIQASEKLFKLKTPAWYLSIVETILYKHFVKLTTEQPVAKQELVD  
FWMDFLVEATKTDVTVVRFPVLILEPTKIYQPSYLSINNEVEEKTISIWHVLPDDKKGIH  
EWNFSASSVRGVSISKFEERCCFLYVLHNSDDFIYFCTELHCKKFFEMVNTITEEKGRS  
TEEGDCESDLLEYDYEYDENGDRVVLGKGTYGIVYAGRDSNQVRIAIKEIPERDSRYSQ  
PLHEEIALHKHLKHKNIQYLGFSFENGFIKIFMEQVPGGSLSALLRSKWGPLKDNEQTI  
GFYTKQILEGLKYLHDNQIVHRDIKGDNLINTYSGVLKISDFGT SKRLAGINPCTETFT  
GTLQYMAPEIIDKGPRGYGAADIWSLGCTIIEMATGKPPFYELGEPQAAMFKVGMFKVH  
PEIPESMSAEAKAFILKCFEPDPDKRACANDLLVDEFLKVSSKKKKTQPKLSALSAGSNE

YLRISLPPVPLVEDTSSSSEYGSVSPDTELKVDPFSEKTRAKSCGERDVKGIRTLFLGI  
PDENFEDHSAPPSPEEKDSGFFMLRKDSERRATLHRILTEDQDKIVRNLMESLAQGAEPP  
KLKWEHITTLIASLREFVRSTDRKIIATTL SKLKL ELDFDSHGISQVQVVLFGFQDAV NK  
VLRNHNKPHWMFALDSIIRKAVQTAITILVPELRPHFSLASESDTADQEDLDVEDDHEE  
QPSNQTVRRPQAVIEDAVATSGVSTLSSTVSHDSQSAHRSLNVQLGRMKIETNRLLEELV  
RKEKELQALLHRAIEEKDQEI KHLKLKSQPIEIPELPVFHLNSSGTNTEDSELTDWLRVN  
GAEDTISRFLAEDYTLLDVLYYVTRDDLKCLRLRGGMCTLWKAIIDFRNKQT

>sp|P57077|M3KCL\_HUMAN MAP3K7 C-terminal-like protein OS=Homo sapiens GN=MAP3K7CL PE=1 SV=1

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SSSPPAFGFLKCLDYSISVLC SATSLAMLEDNPKVSKLATGDWMLTLKPKSITVPVEIPS  
SPLDDTPPEDSIPLVFPELDQQLPLPPCHDSEESMEVFKQHCQIAEEYHEVKKEITLLE  
QRKKELIAKLDQAEKEKVDAEELVREFEALTEENRTLRLAQSQCVEQLEKLRIQYQKRQG  
SS

>sp|O95819|M4K4\_HUMAN Mitogen-activated protein kinase kinase kinase 4 OS=Homo sapiens GN=MAP4K4 PE=1 SV=2

MANDSPAKSLVDIDLSSLRDPAGIFELVEVVGNGTYGQVYKGRHVKTGQLAAIKVMDVTE  
DEEEEIKLEINMLKKYSHRNIATYYGAFIKKSPPGHDDQLWLVMFCGAGSITDLVKNT  
KGNTLKEDWIIAYISREILRGLAHLHIHHVIHRDIKGQNVLLTENA EVKLVD FGVSAQLDR  
TVGRRNTFIGTPYWMAPEVIACDENPDATYDYSDLWSCGITAIEAEGAPPLCDMHPMR  
ALFLIPRNPPLKSKKWSKKFFSFIGCLVKNYMQRPSTEQLLKHPFIRDQPNERQVRI  
QLKDHIDRTRKKRGEKDETEYEYSGSEEEEEVPEQEGEPSSIVNVPGESTLRRDFLRLQ  
QENKERSEALRRQQLLQEQQLREQEYKRQLLAERQKRIEQKQRRRLEEQQRREREAR  
RQQEREQRRREQEEKRRLEELERRRKEEEERRRAEEKRRVEREQEYIRRQLEEEQRHLE  
VLQQQLLQEQAMLECRWREMEEHRQAERLQRQLQEQAYLLSLQHDHRRPHPQHSQQPP  
PPQERSKPSFHAPEKHAHYEPADRAREVEDRFRKTNHSSPEAQSKQTGRVLEPPVPSRS  
ESFSNGNSESVHPALQRPAEPQVPVRTTSRSPVLSRRDSPLQSGGQNSQAGQRNSTSIE  
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VEQEGADESTSGPEDTRAASSLNLSNGETESVKTMI VHDDVESE PAMTPSKEGTLIVRQT  
QSASSTLQKHKSSSFTPFIDPRLQLISPSSGTTVTSVVGFS CDGMRPEAIRQDPTRKGS  
VVNVNPTNTRPQSDTPEIRKYKKRFNSEILCAALWGVNLLVGTESGLMLLDRSGQGVYP  
LINRRRFQQMDVLEGLNVLTISGKKDKLRVYLSWLRNKILHNDPEVEKKQGWTTVGDL  
EGCVHYKVVKYERIKFLVIALKSSVEVYAWAPKPYHKFMAFKSF GELVHKPLLVDLTVEE  
GQRLKVIYGSCAGFHAVD VDSGVYDIYLPTHIQCSI KPHATII LPNTDGMELLVCYEDE  
GVYVNTYGRITKDVVLQWGEMPTSVAYIRSNQTMGWGEKAIEIRSVETGHLDGVMHKRA  
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>sp|Q9BW11|MAD3\_HUMAN Max dimerization protein 3 OS=Homo sapiens GN=MXD3 PE=1 SV=1

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VHNELEKRRRAQLKRCLERLQKQMP LGADCARYTTLSLLRRARMHIQKLEDQEQRARQLK  
ERLSKQQLRQLEQLRGLAGAAERERLRADSLDSSGLSSERSDSQEELEV DVESLVF  
GGEAELLRGFVAGQEHSYSHGGGAWL

>sp|Q14582|MAD4\_HUMAN Max dimerization protein 4 OS=Homo sapiens GN=MXD4 PE=1 SV=2

MELNSLLILLEAAEYLERRDREA EHGYASVLPFDGDFAREKTKAAGLVRKAPNNRSSHNE

LEKHRRAKLRLYLEQLKQLVPLGPDSTRHTTLLSLLKRAKVHIKKLEEQDRRALSIKEQLQ  
QEHRFLKRRLEQLSVQSVERTDSTGSAVSTDDSEQEV DIEGMEFGPGELDSVGSSSDA  
DDHYSLQSGTGGDSGFGPHCRRLGRPALS

>sp|Q13477|MADCA\_HUMAN Mucosal addressin cell adhesion molecule 1 OS=Homo sapiens  
GN=MADCAM1 PE=1 SV=2

MDFGLALLLAGLLGLLLGQSLQVKPLQVEPPEPVVAVALGASRQLTCRLACADRGASVQW  
RGLDTSLGAVQSDTGRSVLTVRNASLSAAGTRVCVCGSGGRTFQHTVQLLVYAFPDQLTV  
SPAALVPGDPEVACTAHKVTPVDPNALSFSLLVGGQELEGALGPEVQEEEEEPQGDED  
VLFVRTERWRLLPPLGTPVPALYCQATMRLPGLLSHRQAIPVLHSPTSPEPPDTSPE  
PDTTSPESPDTTSQEPPDTSPEPPDKTSPEPAPQQGSTHTPRSPGSTRTRRPEISQAGP  
TQGEVIPTGSSKPGDQLPAALWTSSAVLGLLLLALPTYHLWKRCRHLAEDDTHPPASLR  
LLPQVSAWAGLRGTGQVGISPS

>sp|Q96JY0|MAEL\_HUMAN Protein maelstrom homolog OS=Homo sapiens GN=MAEL PE=1 SV=1

MPNRKASRNAYFFVQEKIPELRRRGLPVARVADAIPYCSDWALLREEEKEKYAEMARE  
WRAAQGKDPGPSEKQKPVFTPLRRPGMLVPKQNVSPDMSALSLKGDQALLGGIFYFLNI  
FSHGELPPHCEQRFLPCEIGCVKYSLQEGIMADFHSFINPGEIPRGFRFHCQAASDSSHK  
IPISNFERGHNQATVLQNLRYFIHPNPGNWPPYICKSDDRTRVNWCLKHMAKASEIRQDL  
QLLTVEDLVVGIYQKFLKEPSKTWIRSLLDVAMWDYSSNTRCKWHEENDILFCALAVCK  
KIAYCISNSLATLFGIQLTEAHVPLQDYEASNSVTPKMVVLDAGRYQKLRVGSSGFSHFN  
SSNEEQRSNTPIGDYPSRAKISGQNSSVRGRGITRLLESISNSSNIHKFSNCDTSLSPY  
MSQKDGYKSFSSLS

>sp|Q9ULX9|MAFF\_HUMAN Transcription factor MafF OS=Homo sapiens GN=MAFF PE=1 SV=2

MSVDPLSSKALKIKRESENTPHLSDEALMGLSVRELNRHLRGLSAEEVTRLKQRRRTLK  
NRGYAASCRVKRVCQKEELQKQKSELEREVDKLARENAAMRLELDALRGKEALQGFARS  
VAAARGPATLVAPASVITIVKSTPGSGSGPAHGPDPAHGPAACS

>sp|P43355|MAGA1\_HUMAN Melanoma-associated antigen 1 OS=Homo sapiens GN=MAGEA1 PE=1 SV=1

MSLEQRSLHCKPEEALAEQAEALGLVCVQAATSSSSPLVLGTLEEVP TAGSTDPPQSPQG  
ASAFPTTINFTRQRQPSEGSSSREEEGPSTSCILESLFRAVITKKVADLVGFLLLYRAR  
EPVTKAEMLESVIKNYKHCPEIFGKASESLQLVFGIDVKEADPTGHSYVLVTCLGLSYD  
GLLDGNQIMPKTGFLIIIVLMIAMEGGHAPEEEIWEELSVMEVYDGREHSAYGEPRKLLT  
QDLVQEKYLEYRQVPDSDPARYEFLWGPRALAETSYVKVLEYVIKVSARVRFPPSLREA  
ALREEEEGV

>sp|P43360|MAGA6\_HUMAN Melanoma-associated antigen 6 OS=Homo sapiens GN=MAGEA6 PE=1 SV=1

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPD  
PPQSPQGASSLPTTMNYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAKLVHFL  
LLKYRAREPVTKAEMLGSVVGNWQYFFPVIFSKASDSLQLVFGIELMEVDPIGHVYIFAT  
CLGLSYDGLLDGNQIMPKTGFLIIILAI IAKEGDCAPEEKIWEELSVLEVFEGRSDSIFG  
DPKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHMHVKISGGPRIS  
YPLLHEWALREGE

>sp|P43362|MAGA9\_HUMAN Melanoma-associated antigen 9 OS=Homo sapiens GN=MAGEA9 PE=1 SV=1

MSLEQRSPHCKPDEDLEAQGEDLGLMGAQEPTGEEETSSSDSKEEEVSAAGSSSPQ  
PQGASSSISVYYTLWSQFDEGSSSQEEEPSSSDPAQLFEMFQEAALKLVKVAELVHFL  
HKYRVKEPVTKAEMLESVIKNYKRYFPVIFGKASEFMQVIFGTDVKEVDPAGHSYILVTA  
LGLSCDSMLGDGHSMPKAALLIIVLGVILTKDNCAPEEVIWEALSVMGVYVGKEHMFYGE

PRKLLTQDWVQENYLEYRQVPGSDPAHYEFLWGSKAHAETSYEKVINYLVMLNAREPICY  
PSLYEEVLGEEQEGV

>sp|P43363|MAGAA\_HUMAN Melanoma-associated antigen 10 OS=Homo sapiens GN=MAGEA10 PE=2  
SV=2

MPRAPKRQRCMPPEEDLQSQSETQGLEGAQAPLAVEEDASSSTSTSSSFSSFPSSSSSSSS  
SSCYPLIPSTPEEVSADDETPNPPQSAQIACSSPSVVASLPLDQSDEGSSSQKEESPSTL  
QVLPDSESLRSEIDEKVTDLVQFLLFKYQMKEPITKAEILES VIRNYEDHFPLLFSEAS  
ECMLLVFGIDVKEVDPTGHSFVLVTSGLTYDGMLSDVQSMPKTGILILLSIVFIEGYC  
TPEEVIWEALNMMGLYDGMHELIYGEPRKLLTQDWVQENYLEYRQVPGSDPARYEFLWGP  
RAHAEIRKMSLLKFLAKVNGSDPRSFPLWYEEALKDEEERAQDRIATDDTTAMASASSS  
ATGSFSYPE

>sp|O15480|MAGB3\_HUMAN Melanoma-associated antigen B3 OS=Homo sapiens GN=MAGEB3 PE=2 SV=2

MPRGQKSTLHAREKRQQTGRGQTQDHQGAQITATNKKKVSFSSPLILGATIQQKSAGRSR  
ALKKPQRALSTTTSVDVSYKKSYPKANSKIEKKQSFSQGLSSTVQSRTDPLIMKTNMLVQ  
FLMEMYKMKKPIMKADMLKIVQKSHKNCFPEILKKASFNMEVVFVGLKVDSTKDSYVL  
VSKMDLPNNGTVTRGRGFPGTGLLLNLLGVIFMKGNCATEEKIWEFLNKMRIYDGKKHFI  
FGEPRLKITQDLVKLKYLEYRQVPNSNPARYEFLWGPRAHAETSKMKVLEFWAKVNKTVP  
SAFQFWYEEALRDEEERVQAAAMLNDGSSAMGRKCSKAKASSSSHA

>sp|Q96JG8|MAGD4\_HUMAN Melanoma-associated antigen D4 OS=Homo sapiens GN=MAGED4 PE=1 SV=3

MAEGSFSVQSESYSEDMDGSDVEGEEEMVEGNDYEEFGAFGGYGTLSFSDIHLRAFG  
SLGPGRLRLSNPEWLENPVLAQTLVEALQLDPETLANETAARAANVARAAASNRAARAA  
AAAARTAFSQVVAHRVATPQVSGEDTQPTTYAAEAQGPTPEPPLASPQTSQMLVTSKMA  
APEAPATSAQSQTGSPAQEAATEGPSSACAFSQAPCAREVDANRPSTAFLGQNDVDFDTQ  
PAGVSGMAFPRPKRPAPAQEAATEGPSAASGVPQTGPGREVAATRPKTKSGKALAKTRW  
VEPQNVVAAAAAKAKMATSIPEPEGAAAATAQHSAPWARMGGKRTKKSKHLDDEYESSE  
EERETPAVPPTWRASQPSLTVRAQLAPRPPMAPRSQIPSRHVLCLPPRNVTLQERANKL  
VKYLMIKDYKKIPIKRADMLKDVIREYDEHFPEIIERATYTLKKFGIHLKEIDKEEHLY  
ILVCTRDSARLLGKTKDTPRLSLLLVLGVIFMNGNRASEAVLWEALRKMGLRPGVRHP  
FLGDLRKLITDDFVKQKYLEYKKIPNSNPPEYEFWGLRARHETSKMRVLRFIAQNQNRD  
PREWKAHFLEAVDDAFKTMVDMAEEHARAQMRAQMNIIDEALIGRWSWDDIQVELLTWD  
EDGDFGDWARIPFAFWARYHYIILNSNRANRRATWRAGVSSGTNGGASTSVLDGPSTSS  
TIRTRNAARAGASFFSWIQHR

>sp|Q8TD90|MAGE2\_HUMAN Melanoma-associated antigen E2 OS=Homo sapiens GN=MAGEE2 PE=2 SV=1

MSLVSQNARHCSAEITADYGDGRGEIQATNASGSPTSMMLVVDAPQCPQAPINSQCVENTSQ  
AVQDPNDLEVLIDEQSRRLGALRVHDPLEDRSIALVNFMRMSQTEGSIQQSEMFLRE  
YSDQFPEILRRASAHLDQVFGNLRLVIDPQADTYNLVSKRGFQITDRIAESLDMPKASLL  
ALVLGHILLNGNRAREASIWDLKLVDMWDKQQRINNLFGNTRNLLTDFVCMRFLEYWP  
VYGTNPLEFEFLWGSRAHREITKMEALKFVSDAHDEEPWSWPEEYNKALEGDKTKERSLT  
AGLEFWSEDTMNDKANDLVQLAISVTEMLPIHQDELLAHTGKEFEDVFPNILNRATLIL  
DMFYGLSLIEVDTSEHIYLLVQQPESEEEQVMLES LGRPTEYVMPILGLIFLMGNRVKE  
ANVWNLLRRFSVDVGRKHSITRKLMRQRYLECRPLSYSNPVEYELLWGPRAHHETIKMKV  
LEYMARLYRKRPNWPEQYREAVEDEEARAKSEATIMFFLDPT

>sp|Q86UL8|MAGI2\_HUMAN Membrane-associated guanylate kinase, WW and PDZ domain-containing  
protein 2 OS=Homo sapiens GN=MAGI2 PE=1 SV=3

MSKSLKKKSHWTSKVHESVIGRNPEGQLGFELKGAENGQFPYLGEVKPGKVAYESGSKL  
VSEELLLEVNETPVAGLTIRDVLAVIKHCKDPLRLKCVKGGIVDKDLRHYLNLRFAQGS  
VDHELQQIIRDNLYLRTVPCTTRPHKEGEVPGVDYIFITVEDFMELEKSGALLESPTYED  
NYYGTPKPPAEPAPLLLLNVTDQILPGATPSAEGKRKRKNSVSNMEKASIEPPEEEEEERP  
VVNGNGVVVTPESSEHEDKSAGASGEMPSQYPAPVYSQPEELKEQMDDTKPTKPEDNEE  
PDPLPDNWEMAYTEKGEVYFIDHNTKTTSWLDPRLAKKAKPPEECKENELPYGWEKIDDP  
IYGYTYVDHINRRTQFENPVLEAKRKLQQHNPHTELGKPLQAPGFREKPLFTRDASQL  
KGTFLSTTLKKS NMFGFTIIIGGDEPDEFLQVKSVIPDGPAAQDGKMETGDVIVYINEVC  
VLGHTHADVVKLFQSVPIGQSVNLVLCRGYPLFPDPEDPANSMVPLAIMERPPPMVNG  
RHNYETYLEYISRTSQSVPDITDRPPHSLHSMPTDGQLDGTYPVPVHDDNVSMASGATQ  
AELMTLTIVKGAQGFGTIADSPTGQRVKQILDIIQGCPGLCEGLIVEINQQNVQNLST  
EVVDILKDCPIGSETSLIIHRGGFFSPWKTPKIMDRWENQGSPQTSLSAPAIPQNLFPF  
PALHRSSFPDSTEAFDPRKPDYELYEKSRAIYESRQQVPPRTSFRMDSSGPDYKELDVH  
LRMESGFGFRILGGDEPGQPIILIGAVIAMGSADRDGRLHPGDELVYVDGIPVAGKTHRY  
VIDLMHHAARNGQVNLTVRRKVLCCGEPCEPENGSRPGSVSTHHSSPRSDYATYNSNHAA  
PSSNASPPEGFASHSLQTSADV IHRKENEGFGFV IISLNRPESGSTITVPHKIGRIIDG  
SPADRCALKVGDRI LAVNGQSIINMPHADIVKLIK DAGLSVTLRIIPQEELNSPTSAPS  
SEKQSPMAQQSPLAQQSPLAQSPATPNSPIAQAPPQPLQLQGHENS YRSEVKARQDVK  
PDIRQPPFTDYRQPPLDYRQPPGGDYQPPPLDYRQPPLDYRQHSPDTRQYPLSDYRQP  
QDFDYFTVDM EKAGKGFGSIRGGREYKMDLYVLR LAEDGPAIRNGMRVGDQIIENGINE  
STRDMTHARAIELIKSGRRVRLLLKRG TGQVPEYDEPAPWSSPAAAAPGLPEVGVSLDD  
GLAPFSPSHPAPSDPSHQISPGPTWDIKREHDVRKPKELSACGQKKQRLGEQRERSASP  
QRAARPRLEEAPGGQGRPEAGRPASEARAPGLAAADAADAAARAGKEAPRAAAGSELCRR  
EGGGAAPAFAGPGGGGSGALEAEGRAGARAGPRPGPRPPGGAPARKAAVAPGPWKVPGSD  
KLPSVLKPGASAASR

>sp|Q8WWC4|MAIP1\_HUMAN m-AAA protease-interacting protein 1, mitochondrial OS=Homo sapiens GN=C2orf47 PE=1 SV=1

MALAARLLPQFLHSRSLPCGAVRLTPAVAEVRLPSATLCYFCRCRLGLGAALFPRSARA  
LAASALPAQGSRWVLS SPGLPAAFAFPACPQRSYSTEEKPQQHQKTKMIVLGFSNPIN  
WVRTRIKAFLIWAYFDKEFSITEFSEGAQKQAFAHVSKLLSQCKFDLLEELVAKEVLHALK  
EKVTSLPDNHKNALANIDEIVFTSTGDISIYYDEKGRKFNILMCFWYLT SANIPSETL  
RGASVFQVKLGNNVETKQLLSASYEFQREF TQGVKPDWTIARIEH SKLLE

>sp|A8MZ59|LEUTX\_HUMAN Leucine-twenty homeobox OS=Homo sapiens GN=LEUTX PE=2 SV=3

MHPSLATMGLASKLQLDL SVVKIWFKNQRAKWKRRQRRQQMQTRPSLGPANQTTSVKKEE  
TPSAITTANIRPVSPGISDANDHDLREPSG IKNPGGASASARVSSWDSQSYDIEQICLGA  
SNPPWASTLFEIDEFVKIYDLPGEDDTSSLNQYLFVPCLEYDQLQSSV

>sp|P42702|LIFR\_HUMAN Leukemia inhibitory factor receptor OS=Homo sapiens GN=LIFR PE=1 SV=1

MMDIYVCLKRPSWMDNKRMTASNFWLLSTFILLYLMNQVNSQKKGAPHDLKCVTNNL  
QVWNC SWKAPSGTGRGTDYEVCIENRSRSCYQLEKTSIKIPALSHGDYEITINSLHDFGS  
STSKFTLNEQNVSLIPDTPEILNLSADFSTSTLYLKWNRGVSVPFRSNVIWEIKVLRKE  
SMELVKLVTHNTTLNGKDTLHHWSWASDMPLECAIHFEIRCYIDNLHFSGLEEWSDWSP  
VKNISWIPDSQTKVPQDKVILVGS DITFCCVSQEKVLSALIGHTNCPLIHL DGENVAIK  
IRNISVSASSGTNVVFTTEDNIFGTVIFAGYPPDTPQQ LNCETHDLKEIICSWNPGRVTA

LVGPRATSYTLVESFSGKYVRLKRAEAPTNESYQLLFQMLPNQEIYNFTLNAHNPLGRSQ  
STILVNITEKVYPHTPTSFKVKDINSTAVKLSWHLPGNFAKINFLCEIEIKKSNSVQEQR  
NVTIKGVENSSYLVALDKLNPYTYLTFRIRCSTETFWKWSKWSNKKQHLTEASPSKGPD  
TWREWSSDGKNLIYWKPLPINEANGKILSYNVSCSSDEETQSLSEIPDPQHKAIEIRLDK  
NDYIISVVAKNVSGSSPPSKIASMEIPNDDLKIEQVVGMGKGILLTWHYDPNMTCDYVIK  
WCNSSRSEPCLMDWRKVPSNSTETVIESDEFRPGIRYNFFLYGCRNQGYQLLRSMIGYIE  
ELAPIVAPNFTVEDTSADSLVKWEDIPVEELRGFLRGYLFYFGKGERDTSKMRVLESGR  
SDIKVKNITDISQKTLRIADLQGKTSYHLVLRAYTDGGVGPEKSMYVVTKENSVGLIIAI  
LIPVAVAVIVGVVTSILCYRKREWIKETFYDPDIPNPENCKALQFQKSVCEGSSALKTLEM  
NPCTPNNVEVLETRSAPFKIEDTEIISPVAERPEDRSDAEPENHVVSYPPIIEEEIPN  
PAADEAGGTAQVIYIDVQSMYQPAKPEEEQENDPVGGAGYKPMHLPIINSTVEDIAAEE  
DLDKTAGYRPQANVTWNLVSPDSPRSIDSNSEIVSFGSPCSINSRQFLIPPKDEDSPKS  
NGGWSFTNFFQNKPN

>sp|Q96FE5|LIGO1\_HUMAN Leucine-rich repeat and immunoglobulin-like domain-containing nogo  
receptor-interacting protein 1 OS=Homo sapiens GN=LINGO1 PE=1 SV=2

MQVSKRMLAGGVSRMPSPLLACWQPILLVLGSLVSGSATGCPPRCECSAQDRAVLCHRK  
RFVAVPEGIPTETRLDLGKNRIKTLNQDEFASFPHLEELNENIVSAVEPGAFNNLFN  
LRTLGLRSNRLKLIPLGVFTGLSNLTKLDISENKIVILLDYMFDLYNLKSLEVGDNDLV  
YISHRAFSGLSLEQLTLEKCNLTSIPTEALSHLHGLIVLRLRHLNINAIRDYSFKRLYR  
LKVLEISHWPYLDTMPNCLYGLNLTSLSIHCNLTAVPYLAVRHLVYLRFLNLSYNPIS  
TIEGSMHELLRLQEIQLVGGQLAVVEPYAFRGLNYLRVLNVSGNQLTTLEESVFHVSNG  
LETILDSNPLACDRLWVFRWRRLNFRNQPTCATPEFVQGKEFKDFPDVLLPNYFT  
CRRARIRDRKAQQVFVDEGHTVQFVCRADGPPPAIWLSPRKHLVSAKSNGRLTVPDQ  
TLEVRYAQVQDNGTYLCIAANAGGNDMPAHLHVRSYSPDWPHQPNKTFAFISNQPGEGE  
ANSTRATVPFPFDIKTLIIATTMGFISFLGVVLFCLVLLFLWSRGKGNTKHNIEIEYVPR  
KSDAGISSADAPRKFNMKMI

>sp|Q7L985|LIGO2\_HUMAN Leucine-rich repeat and immunoglobulin-like domain-containing nogo  
receptor-interacting protein 2 OS=Homo sapiens GN=LINGO2 PE=2 SV=1

MLHTAISCWQPFLGLAVVLIFMGSTIGCPARCECSAQNKSVSCHRRRLIAIPEGIPIETK  
ILDLSKNRLKSVNPEEFISYPLLEEIDLSDNIIANVEPGAFNNLFNLSRLKGNRLKLV  
PLGVFTGLSNLTKLDISENKIVILLDYMFDLHNLKSLEVGDNDLVYISHRAFSGLLSLE  
QLTLEKCNLTAVPTEALSHLRLSLHLKHLNINMPVYAFKRLFHLKHLEIDYWPLDLM  
MPANSYGLNLTSLSVTNTNLSTVPFLAFKHLVYLTHLNLSYNPISTIEAGMFSDLIRLQ  
ELHIVGAQLRTIEPHSFQGLRFLRVLNVSQNLEETLEENVFSSPRALEVLSINNNPLACD  
CRLWLILQRQPTLQFGGQPMACAGPDTIRERSFKDFHSTALSFYFTCKKPKIREKKLQHL  
LVDEGQTVQLECSADGDPQPVISWVTPRRRFITTKSNGRATVLGDGTLEIRFAQDQDSGM  
YVCIASNAAGNDTFTASLTVKGFASDRFLYANRTPMYMTDSNDTISNGTNANTFSLDLKT  
ILVSTAMGCFTFLGVVLFCLLLFVWSRGKGKHKNSIDLEYVPRKNNGAVVEGEVAGPRR  
FNMKMI

>sp|POC6S8|LIGO3\_HUMAN Leucine-rich repeat and immunoglobulin-like domain-containing nogo  
receptor-interacting protein 3 OS=Homo sapiens GN=LINGO3 PE=3 SV=1

MTCWLCVLSLPLLLPAAPPAGGCPARCECTVQTRAVACTRRRLTAVPDGIPAETRLLE  
LSRNRIRCLNPGDLAALPALEELDLSENIAHVEPGAFANLPRLRVLRRLRGNLKLIPPG  
VFTRLDNLTLDDLSENKLVILLDYTFQDLHSLRRLEVGDNDLVFVSRRFAAGLLALEELT

LERCNLTALSGESLGHRLSLGALRLRHLAIASLEDQNFRLPGLLHLEIDNWPLLEEVAA  
GSLRGLNLTSLSVTHTNITAVPAAALRHQAHLTCLNLSHNPISTVPRGSFRDLVRLRELH  
LAGALLAVVEPQAFGLGRQIRLLNLSNNLLSTLEESTFHSVNTLETLRVDGNPLACDCRL  
LWIVQRRKTLNFDGRLPACATPAEVRGDALRNLPSVLFYFVCRKPKIRERRLQRVAT  
AGEDVRFLCRAEGEPAPTVAWVTPQHRPVTATSAGRARVLPGGTLEIQDARPQDSGTYTC  
VASNAGGNDTYFATLTVRPEPAANRTPGEAHNETLAALRAPLDLTTILVSTAMGCITFLG  
VVLFCFVLLFVWSRGRGQHKNNFSVEYSFRKVDGPAAAAGQGARKFNMKMI

>sp|Q9UHB6|LIMA1\_HUMAN LIM domain and actin-binding protein 1 OS=Homo sapiens GN=LIMA1  
PE=1 SV=1

MESSPFNRRQWTSLSLRVTAKELSLVNKNKSSAIVEIFSKYQKAAEETNMEKKRSNTENL  
SQHFRKGTLTVLKKKWNENPGLGAESHTDSLRRNSSTEIRHRADHPAEVTSHAASGAKADQ  
EEQIHPRSRLSPPEALVQGRYPHIKDGEDLKDHOSTESKKMENCLGESRHEVEKSEISEN  
TDASGKIEKYNVPLNRLKMMFEKGPTQTKILRAQSRSASGRKISENSYSLDDLEIGPGQ  
LSSSTFDSEKNESRRNLELPRLSETS IKDRMAKYQAAVSKQSSSTNYTNELKASGGEIKI  
HKMEQKENVPPGPEVCITHQEGEKISANENSLAVRSTPAEDDSRDSQVKSEVQQPVHPKP  
LSPDSRASSLSESSPPKAMKKFQAPARETCVECQKTVYPMERLLANQQVFHISCFRCSYC  
NNKLSLGTYYASLHGRIYCKPHFNQLFKSKGNYDEGFGHRPHKDLWASKNENEEILERPAQ  
LANARETPHSPGVEDAPIAKVGVLAAASMEAKASSQKEKEDKPAETKKLRITAWPPPTELGS  
SGSALEEGIKMSKPKWPPPEDEISKPEVPEDVDLDLKKLRRSSSLKERSRPFTVAASFQST  
SVKSPKTVSPPIRKGWSMEQSEESVGGRAERKQVENAKASKKNGNVGKTTWQNKESKG  
ETGKRSKEGHSLEMENENLVENGADSDDEDDNSFLKQQSPQEPKSLNWSSFVDNTFAEEFT  
TQNQKSQDVELWEGEVVKELSVEEQIKRNRYYDEDEDEE

>sp|Q9UPQ0|LIMC1\_HUMAN LIM and calponin homology domains-containing protein 1 OS=Homo  
sapiens GN=LIMC1 PE=1 SV=4

MACPALGLEALQPLQPEPPPEPAFSEAQKWIEQVTGRSFGDKDFRTGLENGILLCELLNA  
IKPGLVKKINRLPTPIAGLDNIILFLRGCKELGLKESQLFDPDDLQDTSNRVTVKSLDYS  
RKLKNVLVTIYWLGAANSCTSYSGTTLNLKEFEGLLAQMCKDTDDIESPKRSIRDSGYI  
DCWDSERSDSLSPRHRGDDSDSLDSFGSRSRQTPSPDVVLRGSSDGRGSDSESDLPHR  
KLDPVKKDDMSARRTSHGEPKSAVPFNQYLPNKSNTAYVPAPLRKKKAEREYRKSWS  
ATSPLGGERPFRYGPRTVSDDAESTSMFDMRCEEEAAVQPHSRARQEQQLINNQLREE  
DDKWQDDLARWKSRRRSVSQDLIKKEERKKMEKLLAGEDGTSERRKSIKTYREIVQEKE  
RRERELHEAYKNARSQEEAEGILQQYIERFTISEAVLERLEMPKILERSHSTEPNLSSFL  
NDPNPMKYLRQQSLPPPFTATVETTIARASVLDTSMSAGSGSPKTVTPKAVPMLTPKP  
YSQPKNSQDVLTFFKVDGKVSNGETVHREEEKERECTVAPAHSLTKSQMFEGVARVHG  
SPLELKQDNGSIEINIKKPNVSPQELAATTEKTEPNQEDKNDGGKSRKGNIELASSEPE  
HFTTTVTRCSPTVAFVEFPSPQLKNDVSEEDQKKPENEMSGKVELVLSQKVVKPKSPE  
PEATLTFPFLDKMPEANQLHLPNLNSQVDSPESEKSPVMTQFKFWAWDPEEERRRQEKW  
QQEQERLLQERYQKEQDKLKEWEKAQKEVEEEEERRYYEERKIIEDTVVPFTVSSSSAD  
QLSTSSSMTEGSGTMNKIDLGNCQDEKQDRRWKKSFGDDSDLLKTRESDRLEEKGLT  
EGALAHSGNPVSKGVHEDHQLDEAGAPHCCTNPQLAQDPSQNNQTSNPTHSSSEVVKPKT  
LPLDKSINHQIESPERRKKSPREHFQAGPFSPCSPTPPGQSPNRSISGKKLCSSCGLPL  
GKGAAMI IETNLNYFHIQCFRCGICKGQLGDAVSGTDVIRIRNGLLNCNDCYMRSRSAGQP  
TTL



>sp|Q7Z4I7|LIMS2\_HUMAN LIM and senescent cell antigen-like-containing domain protein 2

OS=Homo sapiens GN=LIMS2 PE=1 SV=1

MTGSNMSDALANAVCQRCQARFSPAERIVNSNGELYHEHCFVCAQCFRPFPEGLFYEFEG  
RKYCEHDFQMLFAPCCGSCGEFIIGRVIKAMNNNWHPGCFRCELCDVELADLGFVNAGR  
HLCRPCHNREKAKGLGKYICQRCHLVIDEQPLMFRSDAYHPDHFNCTHCGKELTAEAREL  
KGELYCLPCHDKMGVPICGACRRPIEGRVVNALGKQWHVEHFVCAKCEKPF LGHRHYEKK  
GLAYCETHYNQLFGDVCYNCSHVIEGDVVSALNKAWCVSCFSCSTCNSKLT LKNKFVEFD  
MKPVCKRCYEFPLELKKRLKKLSELT SRKAQPKATDLNSA

>sp|Q13136|LIPA1\_HUMAN Liprin-alpha-1 OS=Homo sapiens GN=PPFIA1 PE=1 SV=1

MMCEVMPITISEAEGPPGGGGHSGSPSPQPDADSHFEQLMVSMLERDRLD LTLRETQET  
LALTQGKLHEVGHERDSLQRQLNTALPQEFAALTKELNVCREQLLEREE EIAELKAERNN  
TRLLEHLECLVSRHERSLRMTVVKRQAQSPAGVSSEVEVLKALKSLFEH HKALDEK VRE  
RLRVALERC SLLEELGATHKELMILKEQNNQKKTLDGVL DINHEQENTPSTSGKRSSD  
GSLSHEEDLAKVIELQEII SKQSREQSQMKERLASLSSHVTELEEDLDTARKDL IKSEEM  
NTKLQRDVREAMAQKEDMEERIT TLEKRYLAAQREATSVHDLNDKLENE IANKDSMHRQT  
EDKNRQLQERLELAEQKLQQT LRKAETLPEVEAELAQRVAALSKAEERHGNIEERLRQME  
AQLEEKNQELQRARQREKMNEEHNKRLSDTVDKLLSESNERLQLHLKERMAALEDKNSLL  
REVESAKKQLEETQHDKDQLVLNIEALRAELDHMLRGASLHHGRPHLGSPD FRFPMA D  
GHTDSYSTSAVLR RPQKGRLAALRDEPSKVQTLNEQDWERAAQASVLANVAQAFESDADV  
SDGEDDRDRTLSSVDLLSPSGQADAHTLAMMLQEQLDAINKEIRLIQEEKENTEQR AEEI  
ESRVGSGSLDNLGRFRSMSSIPYPASSLASSSPPGSGRSTPRRI PHSPAREVDRLGVMT  
LLPPSREEVRDDKTTIKCETSPSSPRALRLDRLHKGALHTVSHEDIRDIRNSTG SQDGP  
VSNPSSSNSSQDSLHKAPKKKG IKSSIGRLF GKKEKGRPGQTGKEALGQAGVSETDNSSQ  
DALGLSKLGGQA EKNRKLQKKHELLEEARRQGLPFAQWDGPTVVVWLELWVGMPAWYVAA  
CRANVKS GAIMSALSDTEIQREIGISNPLHRLKLRLAIQEIMSLTSPSAPPTSRTTLAYG  
DMNHEWIGNEWLPSLGLPQYRSYFMECLVDARMLDHLTKKDLRGQLKMVDSFHRNSFQCG  
IMCLRRLNYDRKELERKREESQSEIKDVLVWSNDRVIRWILSIGLKEYANNLIESGVHGA  
LLALDETFDFSALALLLQIPTQNTQARAVLEREFNNLLVMGTD RRFDEDDDKSFRRAPSW  
RKKFRPKDIRGLAAGSAETLPANFRVTSSMSSPSMQPKMQMDGNVSGTQR LDSATVRTY  
SC

>sp|Q8WWY8|LIPH\_HUMAN Lipase member H OS=Homo sapiens GN=LIPH PE=1 SV=1

MLRFYLFISLLCLSRSDAEETCPSFTRL SFHSAVVGTGLNVRLMLYTRKNLTCAQTINSS  
AFGNLNVTKKTTFIVHGFRPTGSPPVWMDDLVKGLLSVEDMNVVVVDWNRGATT LIYTHA  
SSKTRK VAMVLKEFIDQMLAEGASLDDIYMIGVSLGAHISGFV GEMYDGLGRITGLDPA  
GPLFNGKPHQDRLDPSDAQFVDVIHSDTDALGYKEPLGNIDFY PNGGLDQPGCPKTILGG  
FQYFKCDHQRSVYLYLSSLRESCTITAYPCDSYQDYRNGKCVSCGTSQKESCPLL GYYAD  
NWKDHLRGKDPPMTKAFFDTAEESPFCMYHYFVDIITWKNVRRGDITIKLRDKAGNTTE  
SKINHEPTTFQKYHQVSLLARFNQDLKVA AISLMFSTGSLIGPRYKLRILRMKLRSLAH  
PERPQLCRYDLVLMENVETVFQPI LCPELQL

>sp|Q5VYY2|LIPM\_HUMAN Lipase member M OS=Homo sapiens GN=LIPM PE=2 SV=2

MLETLSRQWIVSHRMEMWLLILVAYMFQRNVNSVHMPTKAVDPEAFMNISEIIQH QGYPC  
EEYEVATEDGYILSVNRI PRGLVQPKKTGSRPVVLLQHGLVGGASNWISNLPNNSLGFIL  
ADAGFDVWMGNSRGNASRKHKTL SIDQDEFWAFSYDEMARFDLPAVINFILQKTGQEKI  
YYVGYSQGT TMGFIAFSTMPELAQKIKMYFALAPIATVKHAKSPG TKFLLLPDMMIKGLF

GKKEFLYQTRFLRQLVIYLCGQVILDQICSNIMLLGGFNTNNMMSRASVYAAHTLAGT  
SVQNILHWSQAVNSGELRAFDWGSETKNLEKCNQPTPVRYVRDMTVPTAMWTGGQDWLS  
NPEDVKMLLSEVTNLIYHKNIPWAHVDFIWGLDAPHRMYNEIIHLMQQEETNLSQGRCE  
AVL

>sp|075023|LIRB5\_HUMAN Leukocyte immunoglobulin-like receptor subfamily B member 5  
OS=Homo sapiens GN=LILRB5 PE=1 SV=1

MTLTLSVLICLGLSVGPRTCVQAGTLPKPTLWAEPASVIARGKPVTLWCQGPLETEEYRL  
DKEGLPWARKRQNPLEPGAKAKFHIPSTVYDSAGRYRCYETPAGWSEPSDPLELVATGF  
YAEPTLLALPSPVVASGGNVTLQCDTLDGLLTFVLVEEEQKLPRTLYSQKLPKGPSQALF  
PVGVPVTPSCRWRFRCCYRRKPNQVSNPSDLLEILVPGVSRKPSLLIPQGSVVARGGSL  
TLQCRSDVGYDIFVLYKEGEHDLVQGGSGQPQAGLSQANFTLGPVSRSHGGQYRCYGAHN  
LSRWSAPSDPLDILIAGLIPDIPALSVQPGPKVASGENVTLLCQSWHQIDTFFLTKEGA  
AHPPLCLKSKYQSYRHQAEFMSPV TSAQGGTYRCYSAIRSYPYLLSSPSYPQELVVSGP  
SGDPSLSPTGSTPTPGPEDQPLTPTGLDPQSGLGRHLGVVTGVSAFVLLLFLLLFLLLR  
HRHQSKHRTSAHFYRPAAGAAGPEPKDQGLQKRASPVADIQEEILNAAVKDTQPKDGVEMD  
ARAAASEAPQDVTYAQLHSLTLREATEPPPSQEREPPAEPSIYAPLAIH

>sp|P55344|LMIP\_HUMAN Lens fiber membrane intrinsic protein OS=Homo sapiens GN=LIM2 PE=1  
SV=2

MYSFMGGGLFCAWVGTILLVAMATDHWMQYRLSGSFAHQGLWRYCLGNKCYLQTDIAIY  
WNATRAFMILSALCAISGIIMGIMAFHQPTFSRISRPFSAAGIMFFSSTLFVVLALAIYT  
GVTVSFLGRRFGDWRFWSYILGWAVLMTFFAGIFYMCAYRVHECRRLSTPR

>sp|Q96KR4|MLN\_HUMAN Leishmanolysin-like peptidase OS=Homo sapiens GN=MLN PE=2 SV=2

MVTTLGPKMAAEWGGGVGYSGSGPGRSRWRWSGSVWVRSVLLLLGGLRASATSTPVSLSGS  
SPPCRHHVPSDTEVINKVHLKANHVVKRDVDEHLRIKTVYDKSVEELLPEKKNLVKNKLF  
PQAISYLEKTFQVRRPAGTILLSRQCATNQYLRKENDPHRYCTGECAAHTKCGPVIPEE  
HLQQCRVYRGGWPHGAVGVDPQEGISDADFVLYVGALATERCSHENIISYAAYCQQEAN  
MDRPIAGYANLCPNMISTQPQEFVGMLSTVKHEVIHALGFSAGLFAFYHDKDGNPLTSRF  
ADGLPPFNYSGLGYQWSDKVVRKVERLWDVRDNKIVRHTVYLLVTPRVVEEARKHFDCPV  
LEGMELENQGSGVTELNHWEKRLLENEAMTGSHTQNRVLSRITLALMEDTGRQMLSPYCD  
TLRSNPLQLTCRQDQRAVAVCNLQKFPKPLPQEYQYFDELSGIPAEDLPYYGGSVEIADY  
CPFSQEFSSWHLGSEYQRSSDCRILENQPEIFKNYGAEKYGPSVCLIQKSAFVMEKCERK  
LSYPDWGSGCYQVSCSPQGLKVWVQDTSYLCSRAGQVLPVSIQMNGWIHDGNLLCPSCWD  
FCELCPPPETDPPATNLTRALPLDLCSCTSSSLVVTWLWLLGNLFLLAGFLLCIWH

>sp|Q8N9Z9|LMTD1\_HUMAN Lamin tail domain-containing protein 1 OS=Homo sapiens GN=LMTD1  
PE=2 SV=2

MLEGSWINRREDKLGVSLSLHVFSPKMLGSVATTLPLSSSNSSGMPLGYLSSPQISRVTI  
STTGQLTSKATVGSCSRVENS LDASPFSVPKKQDESPMIGDGEDYFLSLFGDSKKLTAHS  
NYTKTLKYFSMILEEVGQFTSSSLGDVEIAEVNVKGLFVKLINSSLDKEMAIGDHILQQ  
NVNGQTISLYRFLPNIVMQANSTVTVWAAASEAKHQPPSDFLWKEQDKFRASPDCITILC  
KPNGQAIWAYTPIHWKQAWEKLDADVEFNRCVVSPTFRKRQVQWTASTATITKEKQDQP  
KKDISNYQVEQAQVLLKREKEIPPTVFPNRSPPWCQNPYVSAHPYCPLIEPHNTSTAGGRL  
DRQPRTRSTRPNRASGSKKKKTSSESQKQ

>sp|060663|LMX1B\_HUMAN LIM homeobox transcription factor 1-beta OS=Homo sapiens GN=LMX1B  
PE=1 SV=3

MDIATGPESLERCFPRGQTDCAKMLDGIKMEEHALRPGPATLGVLGSDCPHPAVCEGCQ  
RPISDRFLMRVNESSWHEECLQCAACQQALTTSCYFRDRKLYCKQDYQQLFAAKCSGCME  
KIAPTEFVMRALECVYHLGCFCCVCERQLRKGDEFVLKEGQLLCKGDYEKEKDLLSSVS  
PDESDSVKSEDEDGMPAKGQSQSKSGDDGKDPRRPKRPRTILTTQRRRAFKASFEV  
SSKPCRKVRETLAAETGLSVRVVQVWFQNRRAKMKKLARRHQQQEQQNSQRLGQEVLS  
RMEGMMASYTPLAPPQQQIVAMEQSPYGSDDPFQQGLTPPQMPGDHMPYGNDSIFHDID  
SDTSLTSLSDCFLGSSDVGLQARVGNPIDRLYSMQSSYFAS

>sp|Q9H9Z2|LN28A\_HUMAN Protein lin-28 homolog A OS=Homo sapiens GN=LIN28A PE=1 SV=1  
MGSVSNQQFAGGCAAAEEAPEEAPEDAARAADPQLLHGAGICKWFNVRMGFGFLSMTA  
RAGVALDPPVDVFVHQSKLHMEGFRSLKEGEAVEFTFKKSAKGLESIRVTGPGGVFCIGS  
ERRPKGKSMQKRRSKGDRYCNGGLDHHAKECKLPPQPKKCHFCQSISHMVASCPLKAQQ  
GPSAQGKPTYFREEEEEIHSPDLLPEAQN

>sp|Q6ZN17|LN28B\_HUMAN Protein lin-28 homolog B OS=Homo sapiens GN=LIN28B PE=1 SV=1  
MAEGGASKGGGEEPGLPEPAEEESQVLRGTGHCKWFNVRMGFGFISMINREGSPLDIPV  
DVFVHQSKLFMEGFRSLKEGEVFEFTFKKSSKGLESIRVTGPGGSPCLGSERRPKGKTLQ  
KRKPKGDRYCNGGLDHHAKECSLPPQPKKCHYCQSIMHNVANCPHKNVAQPPASSQGRQ  
EAESQPCTSTLPREVGCGHCTSPFPQEARAEISERSGRSPQEASSTKSSIAPEEQSKK  
GPSVQKRKKT

>sp|Q8TBB1|LNX1\_HUMAN E3 ubiquitin-protein ligase LNX OS=Homo sapiens GN=LNX1 PE=1 SV=1  
MNQPESANDPEPLCAVCGQAHSLEENHFYSYPPEVDDDLICHICLQALLDPLDTPCGHTY  
CTLCLTNFLVEKDFCPMDRKPLVLQHCKSSILVNKLLNKLVTCPFREHCTQVLQRCDL  
EHHFQTSCKGASHYGLTKDRKRRSQDGCPCDGCASLTATAPSEVSAAATISLMTDEPGLD  
NPAYVSSAEDGQPAISPVDSGRSNRTRARPFERSTIRSRSFKKINRALSVLRRTKSGSAV  
ANHADQGRESENTTAPEVFPRLYHLIPDGEITSIKINRVDPSLSIRLVGGSETPLVH  
IIIIQHIIYRDGVIARDGRLLPGDIIILKVNMDISNVPHNYAVRLLRQPCQVLWLTVMREQK  
FRSRNNGQAPDAYRPRDDSFHVLNKSSPEEQLGIKLVRKVDEPGVIFNVLDGGVAYRH  
GQLEENDRVLAINGHDLRYGSPESAHLIQASERRVHLVSRQVRQRSPDIFQEAGWNSN  
GSWSPGPGERSNTPKPLHPTITCHEKVNIQKDPGESLGMTVAGGASHREWDLPYIVISV  
EPGGVISRDGRIKTGDILLNVDGVELTEVSRSEAVALLKRTSSSIVLKALEVKEYEPQED  
CSSPAALDSNHNMAPSDWSPSWMWLELPRCLYNCKDIVLRRNTAGSLGFCIVGGYEEY  
NGNKPFFIKSIVEGTPAYNDGRIRCGDILLAVNGRSTSGMIHACLARLLKELKGRITLTI  
VSWPGTFL

>sp|Q9Y4K0|LOXL2\_HUMAN Lysyl oxidase homolog 2 OS=Homo sapiens GN=LOXL2 PE=1 SV=1  
MERPLCSHLCSCLAMLALLSPLSLAQYDSWPHYPEYFQQPAPEYHQPQAPANVAKIQRL  
AGQKRKHSEGRVEVYYDQGWGTVCDDDFSIHAAHVCRELGYVEAKSWTASSSYGKGEGP  
IWLNLHCTGNEATLAactsNGWGTDCKHTEdVGVVCSdkRIPGfKfDnSLINQIENLN  
IQVEDIRIRAILSTYRKRTPVMEGYVEVKEGKTWKQICDKHWTAKNSRVVCGMFGFPGER  
TYNTKVYKMFASRRKQRYWPFMSDCTGTEAHISSCKLGPQVSLDPMKNVTCENGLPAVVS  
CVPQQVFSPDGPFRFRKAYKPEQPLVRLRGGAYIGEGRVEVLKNGEWGTVCDDKWDLVSA  
SVVCRELGFGSAKEAVTGSRLGQIGPIHLNEIQCTGNEKSIIDCKFNAESQGCNHEEDA  
GVRCNTPAMGLQKKLRLNGGRNPYEGRVEVLVERNGSLVWGMVCGQNWGIVEAMVVCRL  
GLGFASNAFQETWYHGDVNSNKVVMGKCSGTELSLAHCRHDGEDVACPQGGVQYGAG  
VACSETAPDLVLNAEMVQQTYYLEDPRPMFLQCAMEENCLASAAQTDPTTGYRRLRFS  
SQIHNNQSDFRPKNGRHAWIWHDCRHHYHSMVEVFTHYDLLNLNGTKVAEGHKASFCLD

TECEGDIQKNYECANFGDQGITMGCWDMYRHDIDCQWVDITDVPPGDYLFQVVINPNFEV  
AESDYSNNIMKCRSRYDGHRIWMYNCHIGGSFSEETEKKEHFSGLLNQLSPQ

>sp|Q9UBY5|LPAR3\_HUMAN Lysophosphatidic acid receptor 3 OS=Homo sapiens GN=LPAR3 PE=2  
SV=1

MNECHYDKHMDFFYNRSNTDTVDDWTGTLVIVLCVGTFFCLFIFFSNSLVIAAVIKNRK  
FHFPFYLLANLAAADFFAGIAYVFLMFNTGPVSKTLTVNRWFLRQGLLDSSLTASLTNL  
LVIAVERHMSIMRMVHSNLTKKRVTLILLVWAIAIFMGAVPTLGWNCLCNISACSSLA  
PIYSRSLVFWTVSNLMAFLIMVVVYLRIYVYVKRKTNVLSPHTSGSISRRTPMKLMKT  
VMTVLGAFVVCWTPGLVVLLEDGLNCRQCGVQHVKRWFLLLALLNSVNPPIIYSYKDEDM  
YGTMMKMICCFSENPERPSRIPSTVLSRSDTGSQYIEDSISQGAVCNKSTS

>sp|Q7Z3D4|LYSM3\_HUMAN LysM and putative peptidoglycan-binding domain-containing protein  
3 OS=Homo sapiens GN=LYSMD3 PE=1 SV=2

MAGRHNRSFPLPGVQSSGQVHAFGNCSDSDILEEAEVYELRSRGKEKVRRTSRDRLD  
DIIVLTKDIQEGDTLNAIALQYCTVADIKRVNLIQDQFFALRSIKIPVKKFSSLTET  
LCPPKGRQTSRHSSVQYSSEQEILPANDSLAYSDSAGSFLKEVDRDIEQIVKCTDNKRE  
NLNEVVSALTAQQMRFEFDPNKNTQRKDPYYGADWGIGWWTAVVIMLIVGIITPVFYLLYY  
EILAKVDVSHSTVDSSHLHSKITPPSQQREMENGIVPTKGIHFSQQDDHKLYSQDSQSP  
AAQQET

>sp|Q9BXT6|M10L1\_HUMAN RNA helicase Mov10l1 OS=Homo sapiens GN=MOV10L1 PE=2 SV=1

MLSLAAKLVAFFWRTADTPREEAGQLEPELAEGDTKLKTVRGVVTRYCSDYGMIDDMIYF  
SSDAVTSRVLLNVGQEVIAVVEENKVSNGLKAIRVEAVSDKWEDDSRNHGSPSDCGPRVL  
IGCVTSLVEGAGCISQTTYFSLESVCEGFEPCKGDWVEAEYRIRPGTWSSEATSVKPLRY  
KRVDKVCISSLCGRNGVLEESIFFTLDSLKLDPGYTPRRGDVVNAVVESSQSCYVWRAL  
CMTLVKRRDAAPVHEATHFYGTILLKNKGDIEVTQVTHFGTLKEGRSKTMVIWIENKGD  
PQNLVSCLAGWDKSKQFRFQMLDKDQMCPVVSFVSVPEKENSSENINSLNSHTKNKTS  
QMSSESLVNNRGISPGDCTCKGENGEKDNIISRKQMTPEPEPGLVPPGGKTFIVVICDGK  
NPGRCHELLLLCFSDFLIGRYLEVNVISGEESLIAAREPFSWKKLKSSQALTSAKTTVVV  
TAQKRNSRRQLPSFLPQYIPDRLRKCVEQKIDILTFQPLLAELNMSNYKEKFSTLLWL  
EEIYAEMELKEYNMSGIILRRNGDLLVLEVPGLAEGRPSLYAGDKLILKTQEYNGHAIEY  
ISYVTEIHEEDVTLKINPEFEQAYNFEPMDVEFTYNRTTSRRCHFALEHV IHLGVKVLFP  
EEIILQSPQVTGNWNHAQDTKSSGQSTSKKNRKTMTDQAEHGTEERRVGDKDLPLAPFT  
AEMSDWVDEIQTPKARKMEFFNPVLNENQKLAVKRILSGDCRPLPYILFGPPGTGKTVTI  
IEAVLQVHFALPDSRILVCAPSNSAADLVCLRLHESKVLQPATMVRVNATCRFEEIVIDA  
VKPYCRDGEDIWKASRFRIIITCSSSGLFYQIGVRVGHFTHVFVDEAGQASEPECLIPL  
GLMSDISGQIVLAGDPMQLGPVIKSRLAMAYGLNVSFLERLMSRPAYQRDENAFGACGAH  
NPLLVTKLVKNYRSHEALLMLPSRLFYHRELEV CADPTVVTSLLGWEKLPKKGFP LIFHG  
VRGSEAREGKSPSWFNPAEAVQVLYRCCLLAHSISSQVSASDIGVITPYRKQVEKIRILL  
RNVDLMDIKVGSVEEFQGGQEYLVIIISTVRSNEDRFEDDRYFLGFLSNSKRFNVAITRPK  
ALLIVLGNPHVLVRDPCFGALLEYSITNGVYMGCDLPPALQSLQNCGEGVADPSYPVVPE  
STGPEKHQEPS

>sp|PODM35|M1BL1\_HUMAN Metallothionein 1H-like protein 1 OS=Homo sapiens GN=MT1HL1 PE=3  
SV=1

MDPNCSCAAGGSYACAGSCKCKCKCTSCCKSCCSCPLGCAKCAQGCIRKGASEKSCC  
A

>sp|Q9NPA3|M1IP1\_HUMAN Mid1-interacting protein 1 OS=Homo sapiens GN=MID1IP1 PE=1 SV=1  
MMQICDTYNQKHSLFNAMNRFIGAVNNMDQTMVPSLLRDVPLADPGLDNDVGVEVGGSG  
GCLEERTPPVPDGSANGSFFAPSRDMYSHYVLLKSIRNDIEWGLHQPPPPAGSEEGSA  
WKSKDILVDLGHLEGADAGEEDLEQQFHYHLRGLHTVLSKLTRKANILTNRYKQEIGFGN  
WGH

>sp|Q16584|M3K11\_HUMAN Mitogen-activated protein kinase kinase kinase 11 OS=Homo sapiens  
GN=MAP3K11 PE=1 SV=1

MEPLKSLFLKSPLGSWNGSGSGGGGGGGGRPEGSPKAAGYANPVWTALFDYEPSGQDEL  
ALRKGDRVEVLSRDAASISGDEGWWAGQVGGQVGIFPSNYVSRGGPPPCEVASFQELRLE  
EVIGIGGFGKVYRGSWRGELVAVKAARQDPDEDISVTAESVRQEARLFAMLAHPNIIALK  
AVCLEEPNLCVMEYAAGGPLSRALAGRRVPPHVLNVNAVQIARGMHYLHCEALVPVIHR  
DLKSNNILLQLPIESDDMEHKTLLKITDFGLAREWHKTTQMSAAGTYAWMAPEVIKASTFS  
KGSVDVWSFGVLLWELLTGEVPYRGIDCLAVAYGVAVNKLTLPIPTCPEPFAQLMADCWA  
QDPHRRPDFASILQQLEALEAQVLEMPRDSFHSMEGQWKREIQGLFDELRAKEKELLSR  
EEELTRAAREQRSQAEQLRRREHLLAQWELEVFERELTLLLQQVDRERPHVRRRRGTFRK  
SKLRARDGGERISMPDLFKHRITVQASPLDRRRNVFEVGPDSPTFPRFRAIQLEPAEP  
GQAWGRQSPRRLEDSSNGERRACWAWGPSSPKPGEAQNGRRSRMDEATWYLDSDSSPL  
GSPSTPPALNGNPPRPSLEPEEPKRPVPAERGSSSGTPKLIQRALLRGTTALLASLGLGRD  
LQPPGGPGRERGESPTPTPTPAAPCPTPPPSPLICFSLKTPDSPPTAPLLLDLGIPV  
GQRSASPRREEEPRGTVSPPGTSRSAPGTPGTPRSPPLGLISRPRSPLSRIDPWS  
FVSAGPRSPPLSPQPAPRRAPWTLFPDSDPFWDSPANPFQGGPQDCRAQTKDMGAQAP  
WVPEAGP

>sp|Q56UN5|M3K19\_HUMAN Mitogen-activated protein kinase kinase kinase 19 OS=Homo sapiens  
GN=MAP3K19 PE=2 SV=1

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NEEEDPSGGRQDWQPRTEGVEITVTFRDVSPPQEMSQEDLKEKNLINSSLEQWAQAHAV  
SHPNEIETVELRKKKLTMRPLVLQKEESSRELCNVNLGFLPRSCLELNISKSVTREDAP  
HFLKEQQRKSEEFSTSHMKYSGRSIKFLLPPLSLLPTRSGVLTIPQNHKFPKEKERNIPS  
LTSFVPKLSVSVRQSDSPSNEPPGALVKSMDPTLRSSDGFISRNMCSPKTNHHRQ  
CLEKEENWKSKEIEECNKIEITHFEKGQSLVSFENLKEGNIPAVREEDIDCHGSKTRKPE  
EENSQYLSRKNESVAKNYEQDPEIVCTIPSKFQETQHSEITPSQDEEMRNKAASKRV  
SLHKNEAMEPNNILEECTVLKSLSSVVFDDPIDKLPEGCSMETNIKISIAERAKPEMSR  
MVPLIHITFPVDGSPKEPVIKPSLQTRKGTIHNHNSVINPVHQENDKHKMNSHRSLDS  
KTKTSKKTPQNFVISTEGPIKPTMHKTSIKTQIFPALGLVDPRPWQLPRFQKKMPQIAKK  
QSTHRTQKPKKQSFPCICKNPGTQKSCVPLSVQPTPEPRLNYLDKYSDMFKEINSTANGP  
GIYEMFGTPVYCHVRETERDENTYYREICAPSGRITNKCRSSHSEKSNIRTRLSQKK  
THMKCPKTSFGIKQEHKVLISKEKSSKAVHSNLHDIENGDGISEPDWQIKSSGNEFLSSK  
DEIHPMNLAQTPEQSMKQNEFPVSDLSIVEEVSMEESTGDRDISNNQILTTSLRDLQEL  
EELHHQIPFIPSEDSWAVPSEKNSNKYVQQEKQNTASLSKVNASRILTNDLEFDSVSDHS  
KTLTNFSFQAKQESASSQTYQYVWHYLDHDSLANKSITYQMFGKTLSTGNSISQEIIMDSV  
NNEELTDELLGLAAELLALDEKDNNSCQKMANETDPENLNLVLRWGSTPKEMGRETTK  
VKIQRHSSGLRIYDREEKFLISNEKKIFSENSLKSEEPILWTKGEILGKGAYGTVYCGLT  
SQGQLIAVKQVALDTSNKLAAEKEYRKLQEEVDLLKALKHVNIVAYLGTCLQENTVSIFM  
EFVPGGSISSIINRFGLPEMVFCYTKQILQGVAYLHENCVVHRDIKGNVMLMPTGII

KLIDFGCARRLAWAGLNGTHSDMLKSMHGTPYWMAPEVINESGYGRKSDIWSIGCTVFEM  
ATGKPPLASMDRMAAMFYIGAHRGLMPPLPDHFSENAADFVRMCLTRDQHERPSALQLLK  
HSFLERSH

>sp|Q9Y2U5|M3K2\_HUMAN Mitogen-activated protein kinase kinase kinase 2 OS=Homo sapiens  
GN=MAP3K2 PE=1 SV=2

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RPVKLEDLRSKAKIAFGQSMDLHYTNNELV IPLTTQDDLDKAVELLDRIHMKSLKILLV  
INGSTQATNLEPLPSLEDLNTVFGAERKKRLSIIGPISRDRSSPPPGYIPDELHQVARN  
GSFTSINSEGEFIPESMDQMLDPLSLSSPENS GSGSCPSLDSPLDGESYPKSRMPRAQSY  
PDNHQEFSDYDNP IFEKFGKGGTYPRRYHVSYHHQEYNDGRKTFPRARRTQGTSLRSPVS  
FSPTDHSLSSTSSGSSIFTPEYDDSRIRRGSDIDNPTLTVMDISPPSRSPRAPTNWRLGK  
LLGQGAFGRVLYCYDVTGRELAVKQVQFDPDSPETSKEVNALECEIQLLKNLLHERIVQ  
YYGCLRDPQEKTL SIFMEYMPGGS IKDQLKAYGALTENVTRKYTRQILEGVHYLHSNMIV  
HRDIKANILRDSTGNVKLGDFGASKRLQTICLSGTGMKSVTGTPTYWMSPEVISGEGYGR  
KADIWSVACTVVEMLTEKPPWAEFEAMAAIFKIATQPTNPKLPPHVS DYTRDFLKRIFVE  
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>sp|O95382|M3K6\_HUMAN Mitogen-activated protein kinase kinase kinase 6 OS=Homo sapiens  
GN=MAP3K6 PE=1 SV=3

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PREGTEAEPLPLRCLREACAQVPRPRPPQRLSLPFGTLELGDTAALDAFYNADV VLEV  
SSSLVQPSLFYHLGVRESFSMTNNVLLCSQADLPDLQALREDVFQKNSDCVGSYTLIPYV  
VTATGRVLCGDAGLLRGLADGLVQAGVGTEALLTPLVGRLARLLEATPTDSCGYFRETIR  
RDIRQARERFSGPQLRQELARLQRRLDSELLSPDIIMNLLLSYRDVQDYSAI IELVETL  
QALPTCDVAEQHNVC FHYTFALNRRNRPGDRAKALSVLLPLVQLEGSVAPDLYCMCGRIY  
KDMFFSSGFQDAGHREQAYHWYRKAFDVEPSLHSGINAAVLLIAAGQHFEDSKELRLIGM  
KLGCLLARKGCVEKMYYWVDVGFYLGAILANDPTQVVLA AEQYKLNAPIWYLVSMET  
FLLYQHFRPTPEPPGPPRRAHFWLHFLQSCQPFKTACAQGDQCLVLVLEMNKVLLPAK  
LEVRGTDVPSTVTL SLEPETQDIPSSWTFPVASICGVSASKRDERCCFLYALPPAQDVQ  
LCFPSVGHQCWFGLIQA WVTNPDPSTAPAEAEAGAGEMLEFDYEYTETGERLVLGKGTYG  
VVYAGRDRHTRVRIAIKEIPERDSRFSQPLHEEIALHRRLRHKNIVRYLGSASQGGYLKI  
FMEEVPGGSLSSLLRSVWGPLKDNESTISFYTRQILQGLGYLHDNHIHVDIKGDNVLIN  
TFSGLLKISDFGTSKRLAGITPCTETFTGTLYMAPEIIDQGPRGYKAADIWSLGCTVI  
EMATGRPPFHELGSPPQAAMFQVGMKVHPPMPSSLSAEQAFLLRTFEPDPRLRASAQTL  
LGDPFLQPGKRSRSPSSPRHAPRPSDAPSASPTPSANSTTQSQTFCPPQAPSQHPPSPPK  
RCLSYGGTSQLRVPEEPAAEPPASPEESSGLSLLHQESKRRAMLA AVLEQELPALAENLH  
QEQKQEQGARLGRNHVEELLRCLGAHIHTPNRRQLAQELRALQGRLRAQGLGPALLHRPL  
FAFPDAVKQILRKRQIRPHWMFVLDSLLSRAVRAALGVLGPEVEKEAVSPRSEELSNEGD  
SQQSPGQQSPLPVEPEQGPAPLMVQLSLLRAETDRLREILAGKEREYQALVQRALQRLNE  
EARTYVLAPEPPTALSTDQGLVQWLQELNVDSGTIQMLLNHSFTLHTLLTYATRDDLIYT  
RIRGGMVCRIWRILAQRAGSTPVTSGP

>sp|Q9BY19|M4A8\_HUMAN Membrane-spanning 4-domains subfamily A member 8 OS=Homo sapiens  
GN=MS4A8 PE=2 SV=1

MNSMTSAVPVANSVLV VAPHNGYPVTPGIMSHVPLYPNSQPQVHLVPGNPPSLVSNVNGQ  
PVQKALKEGKTLGAIQIIIGLAHIGLGSIMATVLVGEYLSISFYGGFPFWGGLWFIISGS

LSVAAENQPYSYCLLSGSLGLNIVSAICSAVGILFITDLSIPHPYAYPDYYPYAWGVNP  
GMAISGVLLVFCLEFGIACASSHFGCQLVCCQSSNVSVIYPNIYAANPVITPEPVTSP  
SYSSEIQANK

>sp|Q92918|M4K1\_HUMAN Mitogen-activated protein kinase kinase kinase 1 OS=Homo sapiens GN=MAP4K1 PE=1 SV=1

MDVVDPDIFNRDPRDHYDLLQRLGGGTYGEVFKARDKVS GDLVALKMVKMEPDDDVSTLQ  
KEILILKTCRANIVAYHGSYLWLQKLWICMEFCGAGSLQDIYQVTGSLSELQISYVCRE  
VLQGLAYLHSQKKIHRDIKGANILINDAGEVRLADFGISAQIGATLARLSFIGTPYWMA  
PEVAVALKGGYNELCDIWSLGITAIELAE LQPPLFDVHPLRVLFMTKSGYQPPRLKEK  
GKWSAAFHNFIKVTLTSPKKRPSATKMLSHQLVSPGLNRGLILDLLDKLKNPGKGPSI  
GDIEDEEPPELPPAIPRRISTRSSSLGIPDADCCRRHMEFRKL RGMETRPANTARLQP  
PRDLRSSSPRKQLESSDDDDYDDVDIPTAEDTPPPLPKPKFRSPSDEGPGSMGDDGQL  
SPGVLVRCASGPPPNSPRPGPPSTSSPHLTAHSEPSLWNPPSRELDKPPLLPPKKEKMK  
RKGCALLVKLFNGCPLRIHSTAATHPSTKDQHLLLGAE EGFILNRNDQEATLEMLFPS  
RTTWVYSINNVLSLSGKTPLYSHSILGLLERKETRAGNP IAHISPHRL LARKNMVSTK  
IQDTKGCRACCVAEGASSGGPFLCGALET SVVLLQWYQPMNKFLLVRQVLFPLPTPLSVF  
ALLTGPGSELPAVCIGVSPGRPGKSVLFHTVRFGALSCWLGEMSTEHRGPVQVTQVEEDM  
VMVLMDGSVKLVTPEGSPVRGLRTP EIPMTEAVEAVAMVGGQLQAFWKHGVQVWALGSDQ  
LLQELRDP TLTFRLLGSPRLECSGTISPHCNLLPGSSNSPASASRVAGITGL

>sp|Q8IVH8|M4K3\_HUMAN Mitogen-activated protein kinase kinase kinase 3 OS=Homo sapiens GN=MAP4K3 PE=1 SV=1

MNPGFDLSRRNPQEDFELIQRIGSGTYGDVYKARNVNTGELAAIKVIKLEPGEDFAVVQQ  
EIIMMKDCKHPNIVAYFGSYLRDKLWICMEFCGGGSLQDIYHVTGPLSELQIAYVSRET  
LQGLYYLHSGKMHHRDIKGANILLTDNGHVKLADFGVSAQITATIAKRKSFIGTPYWMAP  
EVAVERKGGYNQLCDLWAVGITAIELAE LPPMFDLHPMRALFLMTKSNFQPPKLKDKM  
KWSNSFHFFVKMALTKNPKRPTAEKLLQHPFVTQHLTRSLAIELLDKVNPNPDHSTYHDF  
DDDDPEPLVAVPHRIHSTSRNVREEKTRSEITFGQVKFDPPLRKETEPHHEL PDSGFLD  
SSEEIYYTARSNLDLQLEYGQGHQGGYFLGANKSLLKSVEEELHQRGHVAHLEDEGDDD  
ESKHSTLAKAIPPLPPKPKSIFIPQEMHSTEDENQGTIKRCPMSGSPAKPSQVPPRPPP  
PRLPPHPKVALGNGMSSFQNGERDGS LCQQQNEHRGTNLSRKEKKDVPKPISNGLPPTP  
KVHMGACFSKVFNGCPLKIHCASSWINPDTRDQYLIFGAEEGIYTLNLNELHETSMEQLF  
PRRCTWLYVMNCLLSISGKASQLYSHNLPGLFDYARQMQLPVAIPAHKLPDRILPRKF  
SVSAKIPETKWCQKCCVVRNPYTGHKYLCGALQTSIVLLEWVEPMQKFMLIKHIDFPIPC  
PLRMFEMLVVPEQEYPLVCVGSVRGRDFNQVVRFETVNPNSTSSWFTESDTPQTNVTHVT  
QLERDTILVCLDCCIKIVNLQGR LKSSRKLSELTFDFQIESIVCLQDSVLAFWKHGMQG  
RSFRSNEVTQEISDSTRIFRLGSDRVVLESRPTDNPTANSNLYILAGHENSY

>sp|O00754|MA2B1\_HUMAN Lysosomal alpha-mannosidase OS=Homo sapiens GN=MAN2B1 PE=1 SV=3

MGAYARASGVCARGCLDSAGPWTMSRALRPPLPLCFFLLLLAAAGARAGGYETCPTVQP  
NMLNVHLLPHTHDDVGWLKTV DQYFYGIKNDIQHAGVQYILDSVISALLADPTRRFIYVE  
IAFFSRWWHQQT NATQEVVRDLVRQGRLEFANGGW MNDEAATHYGAIVDQMTLGLRFLE  
DTFGNDGRPRVAWHIDPFGHSREQASLFAQMGFDGFFFGRLDYQDKWVRMQKLEMEQVWR  
ASTSLKPPTADLFTGVLPNGYNPPRNLCWDVLCVDQPLVEDPRSPEYNAKELVDYFLNVA  
TAQGRYYRTNHTVMTMGSDFQYENANMWFKNLDKLIRLVNAQQA KGSVHVLYSTPACYL  
WELNKANLTWSVKHDDFFPYADGPHQFWTGYFSSRPALKRYERLSYNFLQVCNQLEALVG

LAANVGPGSGDSAPLNEAMAVLQHHDVSGTSRQHVANDYARQLAAGWGPCEVLLSNAL  
ARLRGFKDHTFCQQLNISICPLSQTAARFQVIVYNPLGRKVNWMVRLPVSEGVFVVKDP  
NGRTVPSDVVIFPSSDSQAHPPELLFSASLPALGFSTYSVAQVPRWKPARAPQPIPRRS  
WSPALTIENEHIRATFDPDTGLLMEIMNMNQQLLPVRQTFWFYNASIGDNESDQASGAY  
IFRPNQKPLPVSRWAQIHLVKTPLVQEVHQNFSAWCSQVVRLYPGQRHLELEWSVGPIIP  
VGDTWGKEVISRFDTPLETGKRFYTDNNGREILERRRDYRPTWKLNQTEPVAGNYYPVNT  
RIYITDGNMQLTVLTDRSQGGSSLRDGSLELMVHRRLKDDGRGVSEPLMENGSGAWVRG  
RHLVLLDTAQAAAAGHRLLAEQEVLAPQVVLAPGGGAAYNLGAPPRTQFSGLRDLPPSV  
HLLTLASWGPVLLRLEHQFAVGEDSGRNLSAPVTLNLRDLFSTFTITRLQETTLVANQ  
LREAASRLKWTNTGTPTPHQTPYQLDPANITLPEMIRTFLASVQWKEVDG

>sp|Q8TAF5|LQK1\_HUMAN Putative uncharacterized protein LQK1 OS=Homo sapiens GN=FLVCR1-  
AS1 PE=5 SV=1

MARGLLHLRVGRRRPRGLCCWKKGSRSPQERVLGSTSGKNWRRVTERSEGSKFIGIYSV  
RECKSSDCRRRNSRPSVVSLLRGSCCEL

>sp|Q0VAA2|LR74A\_HUMAN Leucine-rich repeat-containing protein 74A OS=Homo sapiens  
GN=LRR74A PE=2 SV=2

MHIQFPSKPTLPRACWEGRITAGSPGMPPDEIEIEPVRQSSDKMLYCEAESPTVEKVKP  
ARENSETDLEIEDDEKFFTTGQKELYLEACKLMGVVPVSFYFIRMMEESYVNLNHHGLGPR  
GTKAIAIALVSNMAVTKLEEDNCIMEEGVLSLVEMLQENYYLQEMNISNNHLGLEGARI  
ISDFFERNSSSIWSLELSGDNFKEDSAALLCQALSTNYQIKKLDLSHNQFSDVGGEHLGQ  
MLAINVGLTSLDLSWNNFHTRGAVALCNGLRGNVTLTKLDLSMNGFGNEVALALGEVLR  
NRCLVYLDIGGNDIGNEGASKISKGLSNESLRVLKFLNPNMDGAILLILAIAIKRNPKS  
RMEELDISNVLVSEQFMKTLDGVIYVHPQLDVVFKAQGLSPKKTIFLLTNPMKLIQSYA  
DQHKITIVDFFKSLNPTGTMKMSVDEFQKVMIEQNKVPLNQYQVREVKKLDEKTGMVNF  
SFLNTMKP

>sp|Q8NAA5|LR75A\_HUMAN Leucine-rich repeat-containing protein 75A OS=Homo sapiens  
GN=LRR75A PE=2 SV=2

MGTRQTKGSLAERASPGAAPGPRRERPDFWASLLL RAGDKAGRAGAGMPYPYHRRVGMVQE  
LLRMVRQGRREEAGTLLQHLRQDLGMESTSLDDVLYRYASFRNLVDPITHDLIISLARYI  
HCPKPEGDALGAMEKLCRQLTYHLSPHSQWRRHRGLVKRKPQACKAVLAGSPPDNTVDL  
SGIPLTSRDLERVTSYLQRCGEQVDSVELGFTGLTDDMVLLQLPALSTLPRLTTLALNGN  
RLTRAVLRDLTDILKDPKFPNVTWIDLGNVDIFSLPQPFLSLRKRSPKQGHLPITILE  
LGEGPGSGEEVREGTVGQEDPGGGPVAPAEDHHEGKETVAAAQT

>sp|Q7Z2Q7|LRR70\_HUMAN Leucine-rich repeat-containing protein 70 OS=Homo sapiens  
GN=LRR70 PE=2 SV=1

MCGLQFSLPCLRLFLVVTCYLLLLLHKEILGCSSVCQLCTGRQINCRNLGLSSIPKNFPE  
STVFLYLTGNNISYINESELTGLHSLVALYLDNSNILEYVYPKAFVQLRHLYFLFLNNFI  
KRLDPGIFKGLLNLRNLYLQYNQVSFVPRGVFNDLVSVQYLNLRNRLTVLGSGTFVGMV  
ALRILDLSNNILRISESGFQHLENLACLYLGSNNLTKVPSNAFEVLKSLRRLSLSHNPI  
EAIQPFAFKGLANLEYLLLKNSRIRNVTRDGFSGINNLKHLILSHNDLENLNSDTFSLLK  
NLIYKLDRNRIISIDNDTFENMGASKILNLSFNNTALHPRVLKPLSSLIHLQANSNP  
WECNCKLLGLRDWLASSAITLNIYCNPPSMRGRALRYINITNCVTSSINVSRAWAVKS  
PHIHHKTTALMMAWHKVTTNGSPLENTETENITFWERIPTSPAGRFFQENAFGNPLETTA  
VLPVQIQLTTSVTLNLEKNSALPNDAAASMSGKTSICTQEVEKLNEAFDILLAFFILACV



LIIFLIYKVVFQKQKLKASENSRENREYYSFYQSARYNVTASICNTSPNSLESPGLEQI  
RLHKQIVPENEAQVILFEHSAL

>sp|Q9BYS8|LRRC2\_HUMAN Leucine-rich repeat-containing protein 2 OS=Homo sapiens GN=LRRC2  
PE=2 SV=2

MGHKVVVFDISVIRALWETRVKKHKAWQKKEVERLEKSALEKIKEEWNFVAECRRKGIPQ  
AVYCKNGFIDTSVRLLDKIERNTLTRQSSLPKDRGKRSSAFVFELSGEHWTELPDSLKEQ  
THLREWYISNTLIQIPTYIQLFQAMRILDLPKNQISHLPAEIGCLKNLKELNVGFNYLK  
SIPPELGDCENLERLDCSGNLELMELPFELSNLKQVTFVDISANKFSSVPICVLRMSNLQ  
WLDISSNNLTDLPDIDRLEELQSFLLYKNKLTYPYSMLNLKKLTLLVVSGDHLVELPT  
ALCDSSTPLKFVSLMDNPIDNAQCEDGNEIMESERDRQHFDKEVMKAYIEDLKERESVPS  
YTTKVSFSLQL

>sp|Q9BY71|LRRC3\_HUMAN Leucine-rich repeat-containing protein 3 OS=Homo sapiens GN=LRRC3  
PE=1 SV=1

MGTVRPPRPSLLLSTRESCLFLLFCLHLGAACPQPCRCPDHAGAVAVFCSLRGLQEVPE  
DIPANTVLLKLDANKISHLPDGAHQHLHRLRELDLSHNAIEATGSATFAGLAGGLRLDL  
SYNRIQRIPKDALGKLSAKIRLSHNPLHCECALQEALWELKLDPSVDEIACHTSVQEEF  
VGKPLVQALDAGASLCSVPHRTDVAAMLVTMFGWFAMVIAVVVYVRHNQEDARRHLEYL  
KSLPSAPASKDPIGPGP

>sp|Q9HBW1|LRRC4\_HUMAN Leucine-rich repeat-containing protein 4 OS=Homo sapiens GN=LRRC4  
PE=1 SV=2

MKLLWQVTVHHHTWNAILLPFVYLTAQVWILCAAIAAAASAGPQNCPSVCSCSNQFSKV  
CTRRGLSEVPQGIPSNTRYLNLNENNIQMIQADTFRHLHHLEVLQLGRNSIRQIEVGAFN  
GLASLNTLELFDNWLTVIPSGAFEYLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGE  
LKKLEYISEGAFEGFLNLYNLGMCNIKDMPNLTPLVGLLEELEMSGNHFPPIRPGSFHG  
LSSLKKLWVMNSQVSLIERNAFDGLASLVELNLAHNNLSSLPHDLFTPLRYLVELHLHHN  
PWNCDCDILWLAWWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASFQCSAPFIMDAPR  
DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRISVLNDGTLNFSHVLLSDTG  
VYTCMVTNVAGNSNASAYLNVSTAELNTSNYSFFTITVTVETTEISPEDTTRKYKPVPTS  
TGYQPAYTTSTTVLIQTTRVPKQVAVPATDITDKMQTSLDEVMTTKIIIGCFVAVTLA  
AAMLIVFYKLRKRHQQRSTVTAARTVEIIQVDEDIPAATSAAATAAPSGVSGEGAVVLPT  
IHDHINYNTYKPAHGAHWTEENSLGNSLHPTVTITSEPYIIQTHTKDKVQETQI

>sp|Q6ZRR7|LRRC9\_HUMAN Leucine-rich repeat-containing protein 9 OS=Homo sapiens GN=LRRC9  
PE=2 SV=2

MIESENLNQEEIIKELCLCNGLSYEMVGQEGSDTSKLEMFFLGYPRIVGLSLFPNLTSLT  
IVAQDIKEISGLEPCLQLKELWIAECCIEKIEGLQECRNLEKLYLYFNKISKIENLEKLI  
KLKVLWLNHNTIKNIEGLQTLKNLKDNLNLAGNLINSIGRCLDSNEQLERLNLSGNQICSF  
KELTNLTRLPCLKDLCLNDPQYTTNPVCLLCNYSTHVLYHLPCLQRFDITLDSAKQIKEL  
ADTTAMKKIMYYNMRIKTLQRHLKEDLEKLDQKCKLQKLPEERVKLFVFKKTLERELA  
ELKSGSGKHSDGSNNKVTDPETLKSCETVTEEPSLQKKILAKLNALNERVTFWNKKLDE  
IEAIYHIEVKQKKKSHGLLIPLLLIELETVGNFHFEEGTRSDDWFNFCYELILSRFCAWD  
FRTYGITGVKVKRIIKVNNRILRLKFEKFQKFLNEDMHDSSEYRRMLECLFYVFDPEV  
SVKKKHLLQILEKGFKDSETSKLPLKKEAIVSNLSISECPRIEFLQKKHKDEKKISLK  
HELFRHGILLITKVFLGQSVQAHEKESISQSNYPMVNSVFIIPRYLLNSVMGQRNCDCSV  
RQCKWVFVDHDLVLPYVVEFEYITMVKAPSLFSVFNNVILEESKKNPEVSFVSKDLKFD

DEVIKMEPRIKARPKLISLDDKTILSLAKTSVYSHIVSLNLHGNSLSKLRDLSKLTGLRK  
LNISFNEFTCLDDVYHLYNLEYLDASHNHVITLEGFRGLMKLKHLDLSWNQLKKSNEIN  
MLCKHTTSLTLTDIQHPWQKPATLRLSVIGRLKTLTHLNGVFISEEEATAAMKFIAGTR  
ITQLSLLRHSSTKEERPRILSIWPSAKILTQVSKLGPLHLHSGNCYLKITALNLDGQHFL  
EITNLEKLENLKWASFSNNLTKMEGLESCINLEELTDGNCISKIEGISKMTKLTRLSI  
NNLLTGWEEHTFDNMLHLHLSLENNRITSLSGLQKSFTLVELYISNNYIAVNQEMHNL  
KGLCNLVILDMCGNIIWNQENYRLFVIFHLPELKALDGIPIEPSETDSAKDLFGGRLTS  
DMIAERQGHSNFKMQELNWTSSSIRTVDLIPVDQFRNVCNVLQNNHLTSFSGLIYLPN  
VKVLCNLYNHIESIMPRLKPQTHLTSRQLLYQKVPSSGYGQQGISKTNRDIMSENLPPI  
MHSLEVLHLGYNGICNLIQQLNRLRNLKFLFLQGNEISQVEGLDNLVVLQELVVDHNRI  
RSFNDSAFAPSSLLALHLEENRLRELGKLQSLVKLEKLFLGYNKIQDITELEKLDVIST  
LRELTVYGNPICRKLMLHRHMLIFRLPNLQMLDGSPVNSDDRAKAEFHLAELQAKKNSLIP  
VTHSPMDGRSFGQVKTPIEITNVLLPSGFSHYLGSDVTLTPEVEEFLGATFQDQIECNC  
LKRNEHTPRNSPV

>sp|Q6UXK5|LRRN1\_HUMAN Leucine-rich repeat neuronal protein 1 OS=Homo sapiens GN=LRRN1  
PE=1 SV=1

MARMSFVIAACQLVLGLMTSLTESSIQNSECPQLCVCEIRPWFTPQSTYREATTVCND  
LRLTRIPSNLSSDTQVLLLQSNNIAKTVDELQQLFNLTELDQSNNFTNIKEVGLANLTQ  
LTTLHLEENQITEMTDYCLQDLSNLQELYINHNQISTISAHAFAGLKNLLRLHLNSNKLK  
VIDSRWFDSTPNLEILMIGENPVIGILDMNFKPLANLRSLVLAGMYLTDIPGNALVGLDS  
LESLSFYDNKLVKVPQALQKVPNLKFLDLNKNPIHKIQEGDFKNMLRLKELGINNMGEL  
VSVDRYALDNLPELTKLEATNNPKLSYIHLAFRSVPALSLMLNNNALNATYQKTVESL  
PNLREISIHNSPLRCDCVIHWINSNKTNIRFMEPLSMFCAMPPEYKGHVKEVLIQDSSE  
QCLPMISHDSFPNRLNVDIGTTVFLDCRAMAEPEPEIYWVTPIGNKITVETLSDKYKLSS  
EGTLEISNIQIEDSGRYTCVAQNVQGADTRVATIKVNGTLLDGTQVLKIYVKQTESHSL  
VSWKVSNSVMTSNLKWSSATMKIDNPHTYTARVPVDVHEYNLTHLQPSTDYEVCLTVSN  
IHQQTQKSCVNVTTKNAFAVDISDQETSTALAAVMGSMFAVISLASIAVYFAKRFRKRN  
YHSLKKYMQKTSSIPNLNLYPLINLWEGDSEKDKGSDTKPTQVDTSRSYYMW

>sp|075325|LRRN2\_HUMAN Leucine-rich repeat neuronal protein 2 OS=Homo sapiens GN=LRRN2  
PE=2 SV=2

MRLLVAPLLLAWVAGATAAPVVPVHVPCCPQCACQIRPWYTPRSSYREATTVCNDLFL  
TAVPPALPAGTQTLQLLSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL  
SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI  
DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE  
SLSFYDNQLARVPRRALEQVPGKFLDLNKNPLQRVPGDFANMLHLKELGLNNMEELVS  
IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPMETLMLNNNALSALHQQTVESLPN  
LQEVGLHGNIIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC  
LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRYRVYPEG  
TLELRRVTAEAGLYTCVAQNLVGADTKTVSVVVGALLQPGRDEGQGLELRVQETHPYH  
ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA  
FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG  
GRRPLPPAWAFWGSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS

>sp|043300|LRRT2\_HUMAN Leucine-rich repeat transmembrane neuronal protein 2 OS=Homo  
sapiens GN=LRRTM2 PE=2 SV=3

MGLHFKWPLGAPMLAAIYAMSMVLKMLPALGMACPPKCRCEKLLFYCDSQGFHSPNATD  
KGSGLSLRHNHITELERDQFASFSQLTWLHLDHNQISTVKEDAFQGLYKLELILSSNK  
IFYLPNTTFTQLINLQNLDLSFNQLSSLHPELFYGLRKLQTLHLRSNSLRTIPVRLFWDC  
RSLEFLDLSTNRLRLARNGFAGLIKRELHLEHNQLTKINFAHFLRLSSLHTLFLQWNK  
ISNLTCGMEWTWGTLEKDLTGNEIKAIDLTVFETMPNLKILLMDNNKLSLDSKILNSL  
RSLTTVGLSGNLWECSARICALASWLGSFQGRWEHSILCHSPDHTQGEDILDAVHGFQLC  
WNLSTTVTMATTYRDPTEYTKRISSSSYHVGDKIPTTAGIAVTTEEHFPEPDNAIFT  
QRVITGTALLFSFFFIIFIVFISRKCCPPTLRIRQC SMVQNRQLRSQTRLHMSNMSD  
QGPYNEYEP THEGPFIINGYGQCKCQQLPYKECEV

>sp|Q8N967|LRTM2\_HUMAN Leucine-rich repeat and transmembrane domain-containing protein 2  
OS=Homo sapiens GN=LRTM2 PE=2 SV=1

MLAPGSSPGQGRGRLALQWRQVSWITCWIALYAVEALPTCPFSCCKDSRSLEVDCSGLGLT  
TVPPDVPAATRLLLLNNKLSALPSWAFANLSSLQRLDLSNNFLDRLPRSIFGDLTNLTE  
LQLRNSIRTLDRDLLRHSPLRLHLDLSINGLAQLPPGLFDGLLALRSLSLRSNRLQNLD  
RLTFEPLANLQLLVGDNPWECDNLREFKHMEWFSYRGGRLDQLACTLPKELRGKDMR  
MVPMEFMFYCSQLEDENSSAGLDIPGPPCTKASPEPAKPKPGAEPPEPSTACPQKQRHR  
PASVRRAMGTVIIAGVVCGVVCIMMVAAAYGCIYASLMAKYHRELKKRQPLMGDPEGEH  
EDQKQISSVA

>sp|P22888|LSHR\_HUMAN Lutropin-choriogonadotropic hormone receptor OS=Homo sapiens  
GN=LHCGR PE=1 SV=4

MKQRFSAQLLLKLLLLQPPLPRALREALCPEPCNCVPD GALRCPGPTAGLTRLSLAYLP  
VKVIPSQAFRGLNEVIKIEISQIDSLERIEANAFDNLNLSEILIQNTKNLRYIEPGAFI  
NLPRLYLSICNTGIRKFPDVTKFVSSSESNFILEICDNLHITTIPGNAFQGMNNE SVTLK  
LYGNGFEEVQSHAFNGTTLSLELKENVHLEKMHNGAFRGATGPKTLDISSTKLQALPSY  
GLESIQRLIATSSYSLKKLPSRETFVNLEATLTYP SHCCAFRNLP TKEQNF SHSISENF  
SKQCESTVRKVNKTLTYSSMLAESEL SGWDYEYGFCLPKTPRCAPEPDAFNPCEDIMGYD  
FLRVLIWLINILAIMGNMTVLFVLLTSRYKLTVP RFLMCNLSFADFCMGLYLLLIASVDS  
QTKGQYYNHAIDWQTGSGCSTAGFFT VFASELSVYTLTVITLERWHTITYAIHLDQKLRL  
RHAILIMLGGWLFSSLIAMLPVGVSNYMKVSI CFPMDVETTLSQVYILTILILNVVAFF  
IICACYIKIYFAVRNPELMATNKDTKIAKKMAILIFTDFTCMAPISFFAISA AFKVPLIT  
VTNSKVLVLVFPINSCANPFLYAI FTKTFQRDFLLLSKFGCKRRAELYRRKDF SAYT  
SNCKNGFTGSNKPSQSTLKLSTLHCQGTALLDKTRYTEC

>sp|Q9UK45|LSM7\_HUMAN U6 snRNA-associated Sm-like protein LSm7 OS=Homo sapiens GN=LSM7  
PE=1 SV=1

MADKEKKKESILDLSKYIDKTIRVKFQGGREASGILKGFDP LLNLVLDGTIEYMRDPDD  
QYKLTEDTRQLGLVCRGTSVVLICPDGMEAI PNPFIIQQQDA

>sp|QOVGL1|LTOR4\_HUMAN Regulator complex protein LAMTOR4 OS=Homo sapiens GN=LAMTOR4 PE=1  
SV=1

MTSALTQGLERIPDQLGYLVLSEGA VLASSGDLENDEQAASAI SELVSTACGFRLHRGMN  
VPFKRLSVVFGEHTLLVTVSGQRV FVVKRQNRGREPIDV

>sp|O95868|LY66D\_HUMAN Lymphocyte antigen 6 complex locus protein G6d OS=Homo sapiens  
GN=LY66D PE=1 SV=1

MKPQFVGILLSSLLGAALGNRMRCYNC GSPSSSCKEAVTTCGEGRPQPGLEQIKLP GNP  
PVTLIHQHPACVAHHCNQVETESVGDV TYP AHRDCYLGDL CNSAVASHVAPAGILAAAA

TALTCLLPGLWSG

>sp|H3BQJ8|LY6L\_HUMAN Lymphocyte antigen 6L OS=Homo sapiens GN=LY6L PE=3 SV=1  
MERLVLTCTLPLAVASAGCATTPARNLSCYQCFKVSSWTECPPTWCSPLDQVCISNEVV  
VSFKWSVRVLLSKRCAPRPCNDNMKFEWSPAPMVQGVITRRCCSWALCNRALTPQEGRWA  
LRGGLLLQVGLSLLRALL

>sp|O60449|LY75\_HUMAN Lymphocyte antigen 75 OS=Homo sapiens GN=LY75 PE=1 SV=3  
MRTGWATPRRPAGLLMLLFWFFDLAEPSCRAANDPFTIVHGNTGKCIKPVYGWIVADDCD  
ETEDKLWKVWSQHRLFHLHSQKCLGLDITKSVNELRMFSCDSSAMLWWKCEHHSLYGAAR  
YRLALKDGHGTAISNASDVWKKGGSEESLCDQPYHEIYTRDGNISYGRPCFEPFLIDGTWH  
HDCILDEDHSGPWCATTLNIEYDRKWGICLKPENGCEDNWEKNEQFGSCYQFNTQTALSW  
KEAYVSCQNQGADLLSINSAEELTYLKEKEGIAKIFWIGLNQLYSARGWEWSDHKPLNFL  
NWDPRPSAPTIGGSSCARMDAESGLWQSFSCAQLPYVCRKPLNNTVELTDVWTYSCTR  
CDAGWLPNNGFCYLLVNESNSWDKAHAKCKAFSSDLISIHSLADVEVVTKLHNEDIKEE  
VWIGLNKINIPTLFQWSDGTEVTLYWDENEPNVPYNKTPNCVSYLGELGQWKVQSCEEK  
LKVYCKRKGEKLNDASSDKMCPDDEGWKRHGETCYKIYEDEVFPGTNCNLTITSRFEQEY  
LNDLMKKYDKSLRKYFWTGLRDVDSCEYNWATVGGRRRAVTFSNWNFLEPASPGGCVAM  
STGKSVGKWEVKDCRSFKALSICKKMSGPLGPEEASPKPDDPCPEGWQSFASLSCYKVF  
HAERIVRKRNWEEAERFCQALGAHLSSFSHVDEIKEFLHFLTQFSGQHWLWIGLNKRSP  
DLQGSWQWSDRTPVSTIIMPNEFQQDYDIRDCAAVKVFHRPWRRGWHFYDDREFIYLRPF  
ACDTKLEWVCQIPKGRTPKTPDWNPDRAIGHPPILIEGSEYWFVADLHLNYEEAVLYC  
ASNHSFLATITSFVGLKAIKNKIANISGDGQKWIRISEWPIDDHFTYSRYPWHRFPVTF  
GEECLYMSAKTWLIDLKPTDCSTKLPIICEKYNVSSLEKYSPDAAKVQCSEQWIPFQN  
KCFLKIKPVSLTFSQASDTCCHSYGGTLPVLSQIEQDFITSLLPDMEATLWIGLRWTAYE  
KINKWTDNRELTYSNFHPLLVSGRRLRIPENFFEEESRYHCALILNLQKSPFTGTWNFTSC  
SERHFVSLCQKYSEVKSRQTLQNASETVKYLNLYKIIPKTLTWHSARECLKSNMQLVS  
ITDPYQQAFLSVQALLHNSSLWIGLFSQDDELNFGWSDGKRLHFSRWAETNGQLEDCVVL  
DTDGFWKTVDNDNPGAIICYSGNETEKEVKPVDVSVKCPSPVLNTPWIPFQNCYNFII  
TKNRHMATTQDEVHTKCQKLNPKSHILSIRDEKENNFVLEQLLYFNMYASWVMLGITYRN  
KSLMWFDKTPLSYTHWRAGRPTIKNEKFLAGLSTDGFWDIQTFKVIEEAVYFHQHSILAC  
KIEMVDYKEEYNTLPQFMPYEDGIYSVIQKKVTWYEALNMCSSGGHLASVHNQNGQLF  
LEDIVKRDGFPLWVGLSSHGSESSFEWSDGSTFDYIPWKGGTSPGNCVLLDPKGTWKHE  
KCNSVKDGAICYKPTKSKLSRLTYSSRCPAAKENGSRWIQYKGHCYKSDQALHSFSEAK  
KLCSKHDHSATIVSIKDEDENKFVSRLMRENNITMRVWLGLSQHSVDQSWSWLDGSEVT  
FVKWENKSKSGVGRCSMLIASNETWKKVECEHGFRVCKVPLGPDYTAIAIIVATLSIL  
VLMGGLIWFLFQRHRLHLAGFSSVRYAQGVNEDEIMLP SFHD

>sp|Q9Y6Y9|LY96\_HUMAN Lymphocyte antigen 96 OS=Homo sapiens GN=LY96 PE=1 SV=2  
MLPFLFFSTLFSSIFTEAQKQYWCNSSDASISYTYCDKMQYPISINVNPCIELKRSKGL  
LHIFYIPRRDLKQLYFNLYITVNTMNLPRKEVICRGSDDDYSFCRALKGETVNTTISFS  
FKGIKFSKGYKCVVEAISGSPEEMLFCLEFVILHQPNSN

>sp|P14151|LYAM1\_HUMAN L-selectin OS=Homo sapiens GN=SELL PE=1 SV=2  
MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCTYHYSEKPMNWQRARRFCRDN  
YTDLVAIQNAEIEYLEKTLPFSSRSYYWIGIRKIGGIWTVGTNKSLEEAENWGDGEPN  
NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNYTC  
NCDVGYYPQCQFVIQCEPLEAPELGTMDCTHPLGNFSFSSQCAFSCSEGTNLTGIEETT

CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNC SHPLASFSFTSACTFICSEGT ELIGKKK  
TICSSGIWSNPSPICQKLDKSF SMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARR LKK  
GKSKSRSMNDPY

>sp|Q9NX58|LYAR\_HUMAN Cell growth-regulating nucleolar protein OS=Homo sapiens GN=LYAR  
PE=1 SV=2

MVFFTCNACGESVKKIQVEKHVSVCRNCECLSCIDCGKDFWGDDYKNHVKCISEDQKYGG  
KGYEGKTHKGDIKQAWIQKISELIKRPNVSPKVRELLEQISAFDNVPRKKAKFQNW MKN  
SLKVHNESILDQVWNIFSEASNSEPVNKEQDQRPLHPVANPHAEISTKVPASKVKDAVEQ  
QGEVKKNKRRERKEERQKKRKREKKELKLENHQENS RNQPKPKRKKGGQ EADLEAGGEEVPE  
ANGSAGKRSK KKKQRKDSASEEEAHVGAGKRKR RHSEVETDSK KKKMKLPEHPEGEPED  
DEAPAKGKFNWKGTIKAILKQAPDNEITIKLRKKVLAQYYTVTDEHHRSEEELLVIFNK  
KISKNP TFKLLDKVKLVK

>sp|Q8N1E2|LYG1\_HUMAN Lysozyme g-like protein 1 OS=Homo sapiens GN=LYG1 PE=2 SV=1

MSALWLLGLLALMDLSESSNWGCYGNISLDTPGASCGIGRRHGLNYCGVRASERLAEI  
DMPYLLKYQPMQTIGQKYCMDPAVIAGVLSRKSPGDKILVNMGDRTSMVQDPGSQAPTS  
WISQSQVSQTTEVLTTRIKEIQRRFPTWTPDQYLRGGLCAYSGGAGYVRSSQDLSCDFCN  
DVLARAKYLKRHGF

>sp|075608|LYPA1\_HUMAN Acyl-protein thioesterase 1 OS=Homo sapiens GN=LYPA1 PE=1 SV=1

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHIKYICPHAPVRP  
VTLMNVAMPSWFDIIGLSPDSQEDESIGKQAAENIKALIDQEVKNGIPSNRIILGGFSQ  
GGALSLYTALTQQKLAGVTALSCWLPLRASFPQGPIGGANRDISILQCHGDCDPLVPLM  
FGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQEQEMMDVKQFIDKLLPPID

>sp|Q8N2G4|LYPD1\_HUMAN Ly6/PLAUR domain-containing protein 1 OS=Homo sapiens GN=LYPD1  
PE=2 SV=2

MWVLGIAATFCGLFLLPGFALQIQCYQCEEFQLNND CSSPEFIVNCTVNVQDMCQKEVME  
QSAGIMYRKSCASSAACLIASAGYQSFCSPGKLNSVCISCCNTPLCNGPRPKKRGSSASA  
LRPGLRTTILFLKLALFSAHC

>sp|Q86Y78|LYPD6\_HUMAN Ly6/PLAUR domain-containing protein 6 OS=Homo sapiens GN=LYPD6  
PE=1 SV=1

MEPGPALAWLLLLSLLADCLKAAQSRDFTVKDIIYLHPSTTPYPGGFKCFTCEKAADNYE  
CNRWAPDIYCPRETRYCYTQHTMEVTGNSISVTKRCVPLEECLSTGCRDSEHEGHKVCTS  
CCEGNICNLPLPRNETDATFATTSPINQTNHGPRCMSVIVSCLWLWGLML

>sp|O43325|LYRM1\_HUMAN LYR motif-containing protein 1 OS=Homo sapiens GN=LYRM1 PE=2 SV=1

MTTATRQEVGLGYRSIFRLARKWQATSGQMEDITKEKQYILNEARTLFRKNKNLTDTLI  
KQCIDECTARIEIGLHYKIPYPRPIHLPPMGLTPLRGRGLRSQEKLRKLSKPVYLRSHDE  
VS

>sp|Q96T17|MA7D2\_HUMAN MAP7 domain-containing protein 2 OS=Homo sapiens GN=MAP7D2 PE=1  
SV=2

MERGGGSGTGSRPEGTARGTSLPGKIAEPGAVRTSQPNYRPQMEGFLKSDERQRLAKE  
RREEREKCLAAREQQILEKQKRARLQYEKQMEERWRKLEEQQRREDQKRAAVEEKRKQKL  
REEERLEAMMRSLERTQQLELKKKYSWGAPLAIGPGGHDACDKLSTSTMSLPKPTIPP  
MNKRLSSSTVAISYSPDRVFHVCPRLAPLGPLNPSYKSSPTRNIEKKKATSTSTSGAGDV  
GKEALSGGEASLVEKVKRGQRTATSLPVVNFSGSPLRRCEFSGGIPKRPPSPVISKTATKA  
YPQSPKTTKPPYPGSPVKYRLPALSGQDMPKRKAEKEKSNKEREGLAQQAAGPQGEEAL

EKHVVDKHASEKHAAAAGGKAENSAALGKPTAGTTDAGEAAKILAEKRRQARLQKEQEEQ  
ERLEKEEQDRLEREELKRKAEEERLRLEEEARKQEEERKRQEEKKKQEGEEKRKAGEEA  
KRKAEEELLLKEKQEKEKQEKAMIEKQKEAAETKAREVAEQMRLEREQIMLQIEQERLER  
KKRIDEIMKRTRKSDVSPQVKKEDPKVGVQPAVCVEKKTKLVVPNKMEINGLNTCQEVNG  
VDHAAPETYPQDIFSNGLKPAAGLIHLDALDGKSNSLDDSTEEVQSM DVSPVSKEELISI  
PEFSPVSEMIPGVSLDQNGTG NARALQDLLDFTGPPTFPKRSS ENLSLDDCNKNLIEGFN  
SPGQETPLNTFC

>sp|Q7Z4T9|MAAT1\_HUMAN Protein MAATS1 OS=Homo sapiens GN=MAATS1 PE=1 SV=2

MSHAVTIEEPQAQPQVSQTRYRERSRAGSHISSNRAYDFLYDPLFIVSSEKDHTQANIQA  
TLIRSRLRKVPRFKTMFSNLIHYPRYSLYWSKSDPVPPFISREWKGHKEKHREALRQLTT  
TDASFQMPKEVYEDPEVTGKNRYKYFERPFLPFFQQMPFNVVYAVSKAEPYTFPPTSTKH  
LSIPSKSTVGTQTDYRDADVQTDYPYSAEYVVCQDSIPELLTLATLTWGRGLPAGQAEVEM  
IERAREKRAWEASLPALSDTSQFEKRRKMMNEMERKEWAFREQEIEKLQEIRLEVLKELL  
RKREENQNEVNMKHLNARWSKLQEGKEAKMAVIYLQKLLRGRVVQNM MFEGKEKRLELIQ  
ELRTCHALQEDEKL VKAEKQVTALQRQRNLHEHKVSLVENHLAGLEGRALADMDFLS  
KELVRLQEERRIHAFVMLAERQRRVREA EESGRRQVEKQRLREEDEIFKEVVKVHHSTIS  
SYLEDIILNTEANTAE EQARAEIEKMAEKINDIAYEMESRRTYLQSEEIVAELVYSFLIP  
EVQKYFVKEKVRNAQRKHILAAHQI IHSYTESMVQKKLTEGEQDEASNAAMLLEKETQNE  
NNS

>sp|Q8WXG6|MADD\_HUMAN MAP kinase-activating death domain protein OS=Homo sapiens GN=MADD  
PE=1 SV=2

MVQKKKFCPRLLDYLVI GARHPSSDVAQTPELLRRYPLEDHTEFPLPPDVVFFCQPEG  
CLSVRQRRMSLRDDTSFVFTLTDKDTGVTRYGICVNFYRSFQKRISKEKGEGGAGSRGKE  
GTHATCASEEGGTESSESGSSLQPLSADSTPDVNQSPRGKRRAKAGSRSRNSTLTSLCVL  
SHYPFFSTFRECLYTLKRLVDCCSERLLGKKLGIPRGVQRDTMWRIFTGSLLVEEKSSAL  
LHDLREIEAWIYRLLRSPVPVSGQKRVDIEVLPQELQPALTFALPDPSRFTLVDFPLHLP  
LELLGVDACLQVLTCILLEHKVVLQSRDYNALSMSVMAFVAMIYPLEYMFVPIPLLPTCM  
ASAEQLLLAPTPYIIIGVPASF FLYKLD FKMPPDDVWLVDLDSNRVIAPTNAEVLPI LPEPE  
SLELKKHLKQALASMSLNTQPI LNKLFHEGQEIPLLLGRPSNDLQSTPSTEFNPLIYGN  
DVDSVDVATRVAMVRFNSANVLQGFQMHTRTLRLFP RPVVAFAQGSFLASRPQT PFAE  
KLARTQAVEYFGEWILNPTNYAFQRIHNNMFDPALIGDKPKWYAHQLQPIHYRVYD SNSQ  
LAEALSVPPERDSDSEPTDDSGSDSMDYDDSSSSYSLGDFVSEMMKCDINGDTPNVDPL  
THAALGDASEVEIDELQNQKEAE EPGPDSSENSQENPPLRSSSSTTASSPSTVIHGANSE  
PADSTEMDDKAAVGVS KPLSPVPPSIGKSNVDRRQAEIGEGSVRRRIYDNPYFEPQYGF  
PEEDEDEQGGE SYTPRFSQHVS GNRAQKLLRPNSLRLASDSDAESDRASSPNSTVSNTST  
EGFGGIMSFASSLYRNHSTSFSLSNLTLPTKGAREKATPFPSLKVFGNLTLMEIVTEAGP  
GSGEGNRRALVDQKSSVIKHSPTVKREPPSPQGRSSNSSENQQFLKEVVHVSVDGQGVGW  
LNMKKVRRLLESEQLRVFVLSKLNRMVQSEDDARQDIIPDVEISRKYVKGMLDLLKCTVL  
SLEQSYAHAGLGGMASIFGLLEIAQTHYYSKEPDKRKRSPTESVNTPVGKDPGLAGR GDP  
KAMAQLRVPQLGPRAPSATGKGPKELDTRSLKEENFIASIELWNKHQEVKKQKALEKQRP  
EVIKPVFDLGETEEKKSQISADSGVSLTSSSQRTDQDSVIGVSPAVMIRSSSQDSEVSTV  
VSNSSGETLGADSDLSSNAGDGP GGESVHLASSRGTLSDSEIETNSATSTIFGKAHSLK  
PSIKEKLAGSPIRTSEDVSQRVLYEGLLRDKGSMWDQLEDAAMETFSISKERSTLWDQ  
MQFWEDAFLDAVMLERE GMDQGPQEMIDRYLSLGEHDRKRLEDDERLLATLLHNLIS

YMLLMKVNKNDIRKKVRRMLMGKSHIGLVYSQQINEVL DQLANLNGRDLSIWSSGSRHMKK  
QTFVVHAGTDTNGDIFFMEVCDDCVVLRNIGTVYERWWYEKLINMTYCPKTKVLCLWRR  
NGSETQLNKFYTKKCRELYYCVKDSMERAAARQQSIKPGPELGGEFPVQDLKTGEGGLLQ  
VTLEGINLKFMHNQVFIELNHIKKCNTVRGVFVLEEFVPEIKEVVS HKYKTPMAHEICYS  
VLCLFSYVA AVHSSEEDLRTPPRPVSS

>sp|Q9H063|MAF1\_HUMAN Repressor of RNA polymerase III transcription MAF1 homolog OS=Homo sapiens GN=MAF1 PE=1 SV=2

MKLLNSSFEAINSQLTVETGDAHIIGRIESYSCKMAGDDKHMFKQFCQEGQPHVLEALS  
PPQTSGLSPSRLSKSQGEEEGPLSDKCSRKTLFYLIATLNESFRPDYDFSTARSHEFSR  
EPSLSWVNAVNC SLFSAVREDFKDLKPQLWNAVDEEICLAECDIY SYNPDLDSDPFGED  
GSLWSFNFFYNKRLKRIVFFSCRSISGSTYTPSEAGNELDMELGEEEEVEESRSGGSGA  
EETSTMEEDRVPVICI

>sp|Q9Y5Q3|MAFB\_HUMAN Transcription factor MafB OS=Homo sapiens GN=MAFB PE=1 SV=2

MAAELSMGPELPTSLAMEYVND FDLKFDVKKEPLGRAERPGRPCTRLQPAGSVSSTPL  
STPCSSVPSSPSFSPTQKTHLEDLYWMASNYQQMNPEALNLTPEDAVEALIGSHPVPQP  
LQSFDSFRGAHHHHHHHPHHPHAYPGAGVAHDELGPHAHPHHHHHHQASPPPSAASPA  
QQLP TSHPGPGPHATASATAAGNGSVEDRFSDQLVSM SVRELNRHLRGFTKDEVIRLK  
QKRRTLKNRGYAQSCRYKRVQKQHLENEKTQLIQQVEQLKQEVSR LARERDAYKVKCEK  
LANSGFREAGSTSDSPSSPEFFL

>sp|O15525|MAFG\_HUMAN Transcription factor MafG OS=Homo sapiens GN=MAFG PE=1 SV=1

MTTPNKGKALKVKREPGENGTSLTDEELVTMSVRELNQHLRGLSKEEIVQLKQRRRTLK  
NRGYAASCRVKRVTQKEELEKQKAELQQEVEKLASENASMKLELDALRSKYEALQTFART  
VARSPVAPARGPLAAGLGPLVPGKVAATSVITIVKSKTDARS

>sp|O60675|MAFK\_HUMAN Transcription factor MafK OS=Homo sapiens GN=MAFK PE=1 SV=1

MTTPNPKNKALKVKKEAGENAPVLSDDDELVSMSVRELNQHLRGLTKEEVTRLKQRRRTLK  
NRGYAASCRIKRV TQKEELERQRVELQQEVEKLARENSSMRLELDALRSKYEALQTFART  
VARGPVAPSKVATTSVITIVKSTELSSTSVPFSAAS

>sp|O75444|MAF\_HUMAN Transcription factor Maf OS=Homo sapiens GN=MAF PE=1 SV=2

MASELAMNSDLPTSP LAMEYVND FDLMKFEVKKEPVETDRIISQCGRLIAGGSLSTPM  
STPCSSVPSPSFSAPSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVEALISN  
SHQLQGGFDGYARGAQQ LAAAAGAGAGASLGSGEEMGPAAAVVSAVIAAAAAQSGAGPH  
YHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAGGGGGGGGGGGGAA  
GAGGALHPHHAAGGLHFDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG  
YAQSCRFRKVQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEKYEKLVS SGFRENG  
SSSDNPSSPEFFM

>sp|P43356|MAGA2\_HUMAN Melanoma-associated antigen 2 OS=Homo sapiens GN=MAGEA2 PE=1 SV=1

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPS  
PPHSPQGASSFTTINYTLWRQSDGSSNQE EGPMPDLESEFQA AISRKMVELVHFL  
LLKYRAREPVTKAEMLESVLRNCQDFFPVIFSKASEYLQLVFGIEVVEVVPISHLYILVT  
CLGLSYDGLLDGNQVMPKTGLLIIVLAI I AIEGDCAPEEKIWEELSMLEVFEGREDSVFA  
HPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGEPHIS  
YPPLHERALREGEE

>sp|P43359|MAGA5\_HUMAN Melanoma-associated antigen 5 OS=Homo sapiens GN=MAGEA5 PE=2 SV=1

MSLEQKSQHCKPEEGLDTQEEALGLVGVAATTEEQEA VSSSSPLVPGTLGEVPAAGSPG

PLKSPQGASAIPTAIDFTLWRQSIKGSSNQEEEGPSTSPDPESVFRAALSKKVADLIHFL  
LLKY

>sp|P43361|MAGA8\_HUMAN Melanoma-associated antigen 8 OS=Homo sapiens GN=MAGEA8 PE=1 SV=2  
MLLGQKSQRYKAEGLQAQGEAPGLMDVQIPTAEEQKAASSSSTLIMGTLEEVTDSGSPS  
PPQSPEGASSSLTVDSTLWSQSDEGSSSNEEEGPSTSPDPAHLESLFREALDEKVAELV  
RFLLRKYQIKEPVTKAEMLESVIKNYKNHFPDIFSKASECMQVIFGIDVKEVDPAGHSYI  
LVTCLGLSYDGLLGGDDQSTPKTGLLIIVLGMILMEGSRAPEEAIWEALSVMGLYDGREHS  
VYWKLRKLLTQEWVQENYLEYRQAPGSDPVRVEFLWGPRALAETSYVKVLEHVVRVNARV  
RISYPSLHEEALGEEKGV

>sp|O15479|MAGB2\_HUMAN Melanoma-associated antigen B2 OS=Homo sapiens GN=MAGEB2 PE=1 SV=3  
MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAEEEEAPCCSSSVSGGAASSSPAAGIPQ  
EPQRAPTTAAAAAAGVSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQ  
FLLYKYKIKKSVTKGEMLKIVGKRFREHFPEILKKASEGLSVVFGLELNKVNPNNGHTYTF  
IDKVDLTDEESLLSSWDFPRRKLMLPLLGVI FLNGNSATEEEIWEFLNMLGVYDGEHSV  
FGEPWKLITKDLVQEKEYLEYKQVPSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP  
CAFPTHYEEALKDEEKAGV

>sp|A2A368|MAGBG\_HUMAN Melanoma-associated antigen B16 OS=Homo sapiens GN=MAGEB16 PE=3  
SV=2  
MSQDQESPRCTHDQHLQTFSETQSLEVAQVSKALEKTLLSSSHPLVPGKLKEAPAAKAES  
PLEVPQSFCSSSIIVTTSSSEDEASSNQEEEDSPSSSEDTSDPRNVPADALDQKVAFL  
VNFMLHKCQMKKPITKADMLKIIKDDESHFSEILLRASEHLEMIFGLDVVEVDPTTHCY  
GLFIKGLTYDGMLSGEKGVPKTGLLIIVLGVI FMKGNRATEEEVWEVLNLTGVYSGKKH  
FIFGEPRMLITKDFVKEKEYLEYQQVANSDPARYEFLWGPRAKAETSKMKVLEFVAKVHGS  
YPHSFPSQYAEALKEEEERARARI

>sp|P20794|MAK\_HUMAN Serine/threonine-protein kinase MAK OS=Homo sapiens GN=MAK PE=1 SV=2  
MNRYTTMRQLGDGTGYSVLGMGKSNEGELVAIKRMKRKFYSWDECMNLREVKSLKLNHA  
NVIKLKEVIRENDHLYFIFEYMKENLYQLMKDRNKLFPESVIRNIMYQILQGLAFIHKHG  
FFHRDMKPENLLCMGPVLVKIADFGLARELSRQPPYTDYVSTRWYRAPEVLLRSSVYSSP  
IDVWAVGSIMAELYMLRPLFPGTSEVDEIFKICQVLGTPKKS DWPEGYQLASSMNRFPQ  
CVPINLKTLPNASNEAIQLMTEMLNWDPKKRPTASQALKHPYFQVGQVLGPSSNHLESK  
QSLNKQLQPLESKPSLVEVEPKPLPDIIDQVVGQPQPKTSQQPLQPIQPPQNLSVQQPPK  
QQSQEKPPQTLFPSIVKNMPTKPNGTLSHKSGRRRWGQTIFKSGDSWEELEDYDFGASHS  
KKPSMGVFEKRRKSDSPFRLPEPVPSGSNHSTGENKSLPAVTSLKSDSELSTAPTSKQYY  
LKQSRYLPGVNPVKVSLIASGKEINPHTWSNQLFPKSLGPVGAELAFKRSNAGNLGSYAT  
YNQSGYIPSFLKKEVQSAGQRIHLAPLNATASEYTWNTKTGRGQFSGRTYNPTAKNLNIV  
NRAQPIPSVHGRTDWVAKYGGHR

>sp|Q9BSK0|MALD1\_HUMAN MARVEL domain-containing protein 1 OS=Homo sapiens GN=MARVELD1  
PE=1 SV=1  
MLPPPPRQPPQARAARGAVRLQRPFLRSPGLVRLRLQLLAGAAFWITIATSKYQGPVHF  
ALFVSVLFWLLTLGLYFLTLLGKHELVPVLGSRWLMVNV AHDVLAALYGAATGIMSDQM  
QRHSYCNLKDYPLPCAYHAFLAAAVCGGVCHGLYLLSALYGCGRRCCGKQGEVA

>sp|Q8N4S9|MALD2\_HUMAN MARVEL domain-containing protein 2 OS=Homo sapiens GN=MARVELD2  
PE=1 SV=2  
MSNDGRSRNRDRRYDEVPSDLPYQDTTIRTHPTLHDSERAVSADPLPPPPLPLQPPFGPD



FYSSDTEEPAIAPDLKPVRRFVPDSWKNFFRGKKKDPEWDKPVSDIRYISDGVESPPAS  
PARPNHRSPLNSCKDPYGGSEGTFSRKEADAVFPRDPYGS�DRHTQTVRTYSEKVEEYN  
LRYSYMKSAGLLRLILGVVELLLGAGVFACVTAYIHKDSEWYNLFGYSQPYGMGGVGLG  
SMYGGYYTGPKTPFVLVAVGLAWITTIILVLGMSMYRTILLDSNWWPLTEFGINVAL  
FILYMAAAIVYVNDTNRGGLCYYPFNTPVNAVFCRVEGGQIAAMIFLFTMIVYLISAL  
VCLKLWRHEAARRHREYMEQQEINEPSLSSKRKMCEMATSGDRQRDSEVNFKELRTAKMK  
PELLSGHIPPGHIPKPIVMPDYAKYPVIQTDDERERYKAVFQDQFSEYKELSAEVQAVL  
RKFDLDAVMSRLPHHSESQEHERISRIHEEFKKKKNDPTFLEKKERC DYLNKLSHIK  
QRIQEYDKVMNWDVQGYG

>sp|Q5SRI9|MANEA\_HUMAN Glycoprotein endo-alpha-1,2-mannosidase OS=Homo sapiens GN=MANEA  
PE=1 SV=1

MAKFRRTCIILALFILFISLMMGLKMLRPNTATFGAPFGLDLLPELHQRTIHLGKNFD  
FQKSDRINSETNTKNLSVEITMKPSKASELNLDLPPLNNYLHVFYYSWYGNPQFDGKY  
IHNHPVLEHWPRIAKNYPQGRHNPPDDIGSSFYPELGSYSSRDPSVIETHMRQMRAS  
IGVLALSWYPPDVNDENGEPTDNLVPTILDKAHKYNLKVTFHIEPYSNRDDQNMKNVKY  
IIDKYGNHPAFYRYKTKGNALPMFYVYDSYITKPEKWANLLTSGSRSIRNSPYDGLFI  
ALLVEEKHKYDILQSGFDGIYTYFATNGFTYSSHQNWASLKLFCDKYNLIFIPSVGPGY  
IDTSIRPWNTQNTNRNRYKYEIGLSAALQTRPSLISITSFNEWHEGTQIEKAVPKRTS  
NTVYLDYRPHKPGLYLELTRKWSEKYSKERATYALDRQLPVS

>sp|O15021|MAST4\_HUMAN Microtubule-associated serine/threonine-protein kinase 4 OS=Homo  
sapiens GN=MAST4 PE=1 SV=3

MGEKVSEAPEPVPRGCSGHGSRTPASALVAASSPGASSAESSSGSETLSEEGEPGGFSRE  
HQPPPPPLGGTLGARAPAAWAPASVLLERGLALPPPLPGGAVPPAPRGSSASQEEQDE  
ELDHIILSPPPMPFRKCSNPDVASGPGKSLKYKRQLEDGRQLRRGSLGGALTGRYLLPNP  
VAGQAWPASAETSNLVRMRSQALGQSAPSLTASLKELSLPRRGSLCRTSNRKSLIGNGQS  
PALPRPHSPLSAHAGNSPDSPRNFSPSASAHFSFARSLNRTDGRRWSLASLPSSGYGTN  
TPSSTVSSSCSSQEKLHQLPYQPTDELHFLSKHFCTTESIATENRCRNTPMRPRSRLS  
PGRSPACCDHEIIMNHVYKERFPKATAQMEERLKEIITSYSPDNVLPLADGVLSFTHHQ  
IIEIARDCDKSHQGLITSRYFLELQHKLDKLLQEAHDRSESGELAFIKQLVRKILIVIA  
RPARLLECLEFDPEEFYLLAAEGHAKGQGIKTDIPRYIISQLGLNKDPLEEHLGN  
YDSGTAETPETDESVSNSASLKLRRKPRESDFETIKLISNGAYGAVYFVRHKESRQFRA  
MKKINKQNLILRNQIQAFVERDILTFAENPFVVS MYCSFETRRLCMVMEYVEGGDCAT  
LMKNMGPLPVDMAHYFAETVLALAYLHNYGIVHRDLKPDNLLVTSMGHIKLTDFGLSKV  
GLMSMTNLYEGHIEKDAREFLDKQVCGTPEYIAPEVILRQGYGKPDWWAMGIILYEFL  
VGCVPFFGDTPEELFGQVISDEINWPEKDEAPPPDAQDLITLLLRQNPLERLGTGGAYEV  
KQHRFFRSLDWNLSLRQKAEFIPQLESEDDTSYFDTRSEKYHHMETEEEDDTNDEDFNVE  
IRQFSSCSHRFSKVFSIDRITQNSAEEKEDSVDKTKSTLPSTETLSWSSEYSEMQQLS  
TSNSSDTESNRHKLSSGLLPKLAISTEGEQDEAASCPGDPHEEPGKPALPPEECAQEEPE  
VTPPASTISSSTLSVGSFSEHLQINGRSECVDSTDNSSKPSSEPASHMARQRLESTEKK  
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PHQPIVIHSSGKNYGTIRAIRVYVGSDIYTVHHIVWNVEEGSPACQAGLKAGDLITHI  
NGEPVHGLVHTEVIELLLKSGNKVSIITTPFENTSIKTGPARNSYKSRMVRRSKSKKK  
ESLERRRSLFKKLAKQPSPLLHTRSFSCLNRSLSGESLPGSPHSLSPRSPTPSYRST  
PDFPSGTNSSQSSSPSSAPNSPAGSGHIRPSTLHGLAPKLGGQRYRSGRRKSAGNIPLS

PLARTPSPTPQPTSPQRSPSPLLGHSLGNSKIAQAFPSKMHSPTTIVRHIVRPKSAEPPR  
SPLLKRVQSEELSPSYGSDKKHLCSRKHSLEVTQEEVQREQSQREAPLQSLDENVCVDP  
PLSRARPVEQGCLKRPVSRKVGRQESVDDLDRDKLKAKVVVKKADGFPEKQESHQKSHGP  
GSDLENFALFKLEEREKKVYPKAVERSSTFENKASMQEAPPLGSLLKDALHKQASVRASE  
GAMSDGRVPAEHRQGGGDFRRAPAPGTLQDGLCHSLDRGISGKGEGTEKSSQAKELLRCE  
KLDSKLANIDYLRKKMSLEDKEDNLCPVLKPKMTAGSHECLPGNPVRPTGGQQEPPPAE  
SRAFVSSTHAAQMSAVSFVPLKALTGRVDSGTEKPGLVAPESPVRKSPSEYKLEGRSVSC  
LKPIEGTLDIALLSGPQASKTELPSPESAQSPSPSGDVRASVPPVLPSSSGKNDTTSAR  
ELSPSSLKMNKSYLLEPWFLPPSRGLQNSPAVSLPDEPKRDRKGPHPTARSPGTVMESN  
PQQREGSSPKHQDHTTDPKLLTCLGQNLHSPDLARPCPLPEASPSREKPGLRESSERG  
PPTARSERSAARADTCREPSMELCFPETAKTSDNSKNLLSVGRTHPDFYTQTQAMEKAWA  
PGGKTNHKGDPGEARPPPRDNSSLHSAGIPCEKELGKVRRGVEPKPEALLARRSLQPPGI  
ESEKSEKLSSFPSLQKDGAKEPERKEQPLQRHPSSI PPPPLTAKDLSSPAARQHCSPPSH  
ASGREPGAKPSTAEPSSSPQDPPKPVAHSESSSHKPRPGPDGPPKTKHPDRSLSSQKP  
SVGATKGKEPATQSLGGSSREGKGHSKSGPDVFPATPGSQNKASDGIGQEGGSPVPLHT  
DRAPLDAKPQPTSGGRPLEVLEKPVHLPRPGHPGPSEPADQKLSAVGEKQTLSPKHPKPS  
TVKDCPTLCKQTDNRQTDKSPSQPAANTDRRAEGKKCTEALYAPAEGDKLEAGLSFVHSE  
NRLKGAERPAAGVGKGFPEARHGKGPQKPPTADKPNGMKRSPSATGQSSFRSTALPEK  
SLSCSSSPETRAGVREASAASDTS SAKAAGGMLELPAPSNRDRKAQPAGEGRTHMTK  
SDSLPSFRVSTLPLESHHPDPNTMGGASHRDRALSVTATVGETKGKDPAPAQPPPARKQN  
VGRDVTKPSPAPNTDRPISLSNEKDFVVRQRRGKESLRSSPHKKAL

>sp|Q6P1A2|MBOA5\_HUMAN Lysophospholipid acyltransferase 5 OS=Homo sapiens GN=LPCAT3 PE=1  
SV=1

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YLFYKETYLIIHLFHTFTGLSIAYNFGNQLYHSLLCIVLQFLILRLMGRTITAVLTTFCF  
QMAYLLAGYYTATGNIDIKTWMPHCVLTLKLIGLAVDYFDGKQNSLSSEQQKYAIRG  
VPSLLEVAGFSYFYGAFLVGPQFSMNHYMKLVQGELIDIPGKIPNSIIPALKRLSLGLFY  
LVGYTLLSPHITEDYLLTEDYDNHPFWFRMYMLIWGKFVLYKYVTCWLVTGVCILTGL  
GFNGFEEKGKAKWDACANMKVWLFETNPRFTGTIASFNINTNAWVARYIFKRLKFLGNKE  
LSQGLSLLFLALWHGLHSGYLVCQMEFLIVIVERQAARLIQESPTLSKLAAITVLQPFY  
YLVQQTIIHWLFMGYSMTAFCLFTWDKWLKVYKSIYFLGHIFFLSLLFILPYIHKAMVPRK  
EKLKKME

>sp|Q14703|MBTP1\_HUMAN Membrane-bound transcription factor site-1 protease OS=Homo  
sapiens GN=MBTPS1 PE=1 SV=1

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PNIKRVTPQRKVFRSLKYAESDPTVPCNETRWSQKWQSSRPLRRASLSLGSFWHATGRH  
SSRLLRAIPRQVAQTLQADVLWQMGYTGANVRVAVFDTGLSEKHPHFKNVKERTNWTNE  
RTLDDGLGHGTFVAGVIASMRECQGFAPDAELHIFRVFTNNQVSYTSWFLDAFNAILKK  
IDVLNLSIGGPDFMDHPFVDKVVWELTANNVIMVSAIGNDGPLYGTLLNPADQMDVIGVGG  
IDFEDNIARFSSRGMTTWELPGGYGRMKPDIVTYGAGVRGSGVKGGCRALSGTSVASPVV  
AGAVTLLVSTVQKRELVNPASMKQALIASARRLPGVNMFEQGHGKDLLRAYQILNSYKP  
QASLSPSYIDLTECPYMWPYCSQPIYYGGMPTVVNVTILNGMGVTGRIVDKPDWQPYLPQ  
NGDNIEVAFSYSSVLWPWSGYLAISISVTKKAASWEGIAQGHVMITVASPAETESKNGAE

QTSTVKLP IKVKI IPTPPRSKRVLWDQYHNLRYPPGYFPRDNLRMKNDPLDWNGDHIHTN  
FRDMYQHLRSMGYFVEVLGAPFTCFDASQYGTLLMVDSEEEYFPEEIAKLRRDVDNGLSL  
VIFSDWYNTSVMRKVKFYDENTRQWWMPDTGGANIPALNELLSVWNMGFSDGLYEGETL  
ANHDMYYASGCSIAKFPEDGVVITQTFKDQGLEVLKQETAVVENVPILGLYQIPAEGGGR  
IVLYGDSNCLDDSHRQKDCFWLLDALLQYTSYGVTPPSLSHSGNRQRPPSGAGSVTPERM  
EGNHLHRYSKVLEAHLGDPKPRPLPACPRLSWAKPQPLNETAPSNLWKHQKLLSIDLDKV  
VLPNFRSNRPQVRPLSPGESGAWDIPGGIMPGRYNQEVGQTIPVFAFLGAMVVLAFVQVQ  
INKAKSRPKRRKPRVKRPQLMQQVHPKTPSV

>sp|043772|MCAT\_HUMAN Mitochondrial carnitine/acylcarnitine carrier protein OS=Homo sapiens GN=SLC25A20 PE=1 SV=1

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KTLFREGITGLYRMAAPIIGVTPMFAVCFGFGGLGKKLQKHPEDVLSYPQLFAAGMLS  
GVFTTGIMTPGERIKCLLIQASSGESKYTGTLDCAKKLYQEFGIRGIYKGTVLTLMRDV  
PASGMFYMTYEWLNIFTPEGKRVSELSAPRILVAGGIAGIFNWAVAIPPDVLKSRFQTA  
PPGKYPNGFRDVLRELIRDEGVTSLYKGFNAVMIRAFANAACFLGFEVAMKFLNWATPN  
L

>sp|P42704|LPPRC\_HUMAN Leucine-rich PPR motif-containing protein, mitochondrial OS=Homo sapiens GN=LPPRC PE=1 SV=3

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IAAKEKDIQEESTFSSRKISNQFDWALMRLDLSVRRTGRIPKLLQKVFNDTCRSGGLGG  
SHALLLRSCGSLPELKLEERTEFAHRIWDTLQKLGAVIDVSHYNALLKVYLQNEYKFS  
PTDFLAKMEEANIQPNRVTYQRLIASYCNVGDIEGASKILGFMKTKDLPVTEAVFSALVT  
GHARAGDMENAENILTVMRDAGIEPGPTYLALLNAYAEGKDIDHVKQTLEKVEKSELHL  
MDRDLQIIFSFSKAGYPQYVSEILEKVTCEYRYPDAMNLILLVTEKLEDVALQILLA  
CPVSKEDGPSVFGSFFLQHCVTMNTPEKLTDYCKKLEKVMHSPFLQFTLHCALLANKT  
DLAKALMKAVKEEGFPIRPHYFWPLLVGRRKEKNVQGIIEILKGMQELGVHPDQETYTDY  
VIPCFDSVNSARAILQENGCLSDSDMFSQAGLRSEAANGNLDFVLSFLKSNTLPISLQSI  
RSSLLLGFRSMNINLWSEITELLYKDGRYCQEPGPTAEVGYFLYNLIDSMDSSEVQAK  
EEHLRQYFHQLEKMNVKIPENIYRGIRNLLSEYHVPelikDAHLLVESKNLDFQKTVQLT  
SSELESTLETlKAENQPIRDVLKQLILVLCSEENMQKALELKAKYESDMVTGGYAALINL  
CCRHDKVEDALNLKEEFDRLDSSAVLDTGKYVGLVRVLAKHGKLQDAINILKEMKEKDVL  
IKDTTALSFFHMLNGAALRGEIETVKQLHEAIVTLGLAEPSTNISFPLVTVHLEKGDLS  
ALEVAIDCYEKYKVLPRIHDLCKLVEKGETDLIQKAMDFVSQEQGEMVMLYDLFFAFLQ  
TGNYKEAKKIETPGIRARSARLQWFCDRCVANNQVETLEKLVELTQKLFECDRDQMYN  
LLKLYKINGDWQRADAVWNKIQEENVIPREKTLRLAEILREGNQEVFPDVPPELWYEDEK  
HSLNSSASTTEPDFQKDILACRLNQKKGAYDIFLNAKEQNIVFNAETYSNLIKLLMSE  
DYFTQAMEVKAFAETHIKGFTLNDAAANSRLIITQVRRDYLKEAVTTLKTVLDQQQTPSRL  
AVTRVIQALAMKGDVENIEVVQKMLNGLEDISGLSKMVFINNIALAQIKNNNIDAAIENI  
ENMLTSENKVIIEPQYFGLAYLFRKVIIEQLEPAVEKISIMAERLANQFAIYKPVTDFFLQ  
LVDAGKVDDARALLQRCGAIAEQTPILLFLLRNSRKQKGASTVKSVELELIPELNEKEEA  
YNSLMKSYVSEKDVTSAKALYEHlTAKNTKLDDLFLKRYASLLKYAGEPVPFIEPPESFE  
FYAQLRLKRENS

>sp|060711|LPXN\_HUMAN Leupaxin OS=Homo sapiens GN=LPXN PE=1 SV=1  
MEELDALLEELERSTLQDSDEYSNPAPLPLDQHSRKETNlDETSEILSIQDNTSPLPAQL

VYTTNIQELNVYSEAQEPKESPPPSKTSAAAQLDELM AHLTEMQAKVAVRADAGKKHLPD  
KQDHKASLDSMLGGLEQELQDLGIATVPKGHCASCQKPIAGKVIHALGQSWHPEHFVCTH  
CKEEIGSSPFFERSGLAYCPNDYHQLFSPRCAYCAAPILDKVLTAMNQTWHPHFCSHC  
GEVFGAEGFHEKDKKPYCRKDFLAMFSPKCGGCNRPVLENYLSAMDTVWHPECFVCGDCF  
TSFSTGSFFELDGRPFCELYHHRRGTLC HCGGQPITGRCISAMGYKFHPEHFVCAFLT  
QLSKGIFREQNDKTYCQPCFNKLFPL

>sp|Q05C16|LRC63\_HUMAN Leucine-rich repeat-containing protein 63 OS=Homo sapiens  
GN=LRR63 PE=2 SV=2

MQKPPLLLRRPLPPKFTKLSLHEKKTHTAKTGKIESLHVAFTEDETTSIKMDRTRFPDVL  
RNQSLTPINIQNIFLDHCVQERVTAISSPQKSTKHVREQIPDTATGSIFFPHCNSASTRI  
FGKQTNKMESSRKFMTKDVYTEKRLNILILSSKFSKPKSTPGSVIAQKLEKMHPKHQP  
LPESPGYTYQHISRDLSATVSPPPMTVSMKPEGQWPEHFKSTATTLTRVTEFGFVSLP  
TPVLPRKPHRQSVIETLVTENGNIESVPKQIPPRPPEGLTKTEKIESEIHVVRGEGFKTV  
AATRYETITAMTNLAIVNCQVYGRNALNLKGGFFILNCPDLTPLAFQLIYLNLSFNLDLHYF  
PTEILCLKNLQILKLRNNPIKEIPSEIQQLEFLRIFTIAFNLITVLPIGLFSLSYLEELD  
VSYNELTFIPNEIQKLSLEKLTVDGNELSFPHGILKLNLTKIQFENNFTHPCFWRDNY  
LNNPQQLTQIISLFIVQNKLHKFYDKIPVEVQKLLKWAQFLTELAPLSIYSSRKAITEG  
YIAVELPKFEESKNITEGLLTQKRYEEVMVKCINATTVTS

>sp|Q68CR7|LRC66\_HUMAN Leucine-rich repeat-containing protein 66 OS=Homo sapiens  
GN=LRR66 PE=2 SV=1

MKNLYFRVITIVIGLYFTGIMTNASRKSNI LFNSECQWNEYILTNCSTGKCDIPVDISQ  
TAATVDVSFNFFRVLLQSHTKKEEWKIKHLDLSNNLISKITLSPFAYLHALEVLNLSNNA  
IHLSLDLLSPKSSWVKRHRSSFRNRFLLKVLILQRNKLSDTPKGLWKLKSLQSLDSF  
NGILQIGWSDFHNLQLENLCLKSNKIFKIPPAFKDLKKLQVIDLSNNALITILPMII  
ALEPHLVVDLADNNWQCDSDVAVFQNFISESWRKKWVICNRSIGSEEANGGTPQSRI  
RETRLPIHLHRMKS LIRSKAERPQGGRTGISTLGKKAKAGSGLRKKQRRLPRSVRSTR  
DVQAAGKKEDAPQDLALAVCLSVFITFLVAFSLGAFTRPYVDRLWQKKCQSKSPGLD  
NAYSNEGFYDDMEAAGHTPHPETHLRQVPHLSLYENQTPFWVTQPHPHATVIPDRTLGRSRK  
DPGSSQSPGQCGDNTGAGSGNDGAVYSILQRHPHAGNRELM SAAQDHIHRNDILGEW  
TYETVAQEEPLSAHSGVSSVAGTSHAVSGSSRYDSNELDPSLSGEITASLCKMLTHAE  
AQRTGDSKERGGTEQSLWDSQMEFSKERQVSSIDL LSIQQPRLSGARAEALSAHYSEV  
PYGDPDRTGSPVFPPRWSDGLDVT PANKEPVQKSTPSDTCCELESDCDSDEGSLFTL  
SSISSEARSKTEEAVPDEESLQDESSGASKDNVTAVDSLEENVTFQTIPGKCKNQEDP  
FEKPLISAPDSGMYKTHLENASDTRSEGLSPWPRSPGNSPLGDEFPGMFTYDYDTALQ  
SKAAEWHCSLRDLEFSNVDVLQQTPPCSAEVPSDPDKAAFHERDS DILK

>sp|A6NJI9|LRC72\_HUMAN Leucine-rich repeat-containing protein 72 OS=Homo sapiens  
GN=LRR72 PE=2 SV=2

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IDL SRFKKLKYLWLHHNKLHGITFLTRNYCLTELYLN NNAIFEIEGLHYLPSLHILLHH  
NELTNIDATVKELKGMLNLKILSLYQNPLCQYNLYRLYIIYHLPGV ELLDRNQVTEKERR  
SMITIFNHKKAHIVQSIAFGGKVDASWDPKSPFKQKPAQRVPSDFAFANNVDKTVLDDPE  
DAVFVRSMKRSVMTLTSMNWDTVPTREERYLEEEGTETAQMLTVTLR

>sp|Q9Y2L9|LRCH1\_HUMAN Leucine-rich repeat and calponin homology domain-containing  
protein 1 OS=Homo sapiens GN=LRCH1 PE=1 SV=3

MATPGSEPPFPVPAISVATLHPLHHPHHHHHHQHGGTGAPGGAGGGGGSGGFNLPLN  
RGLERALEEAANSGLNLSARKLKEFPRTAAPGHDLSDTVQADLSKNRLVEVPMELCHFV  
SLEILNLYHNCIRVIPEAIVNLQMLTYLNLNRNLSALPACLCGLPLKVLIASNNKLGSL  
PEEIGQLKQLMELDVSCNEITALPQQIGQLKSLRELNVRRNYLKVLPQELVDLSLVKFDF  
SCNKVLVIPICFREMQLQVLLLENNPLQSPPAQICTKGKVHIFKYL SIACQIKTADSL  
YLHTMERPHLHQHVEDGKKDSDSGVSDNGDKRLSATEPSDEDTVSLNVPMSNIMEEEQI  
IKEDSCHRLSPVKGEFHFQEPESLLGDSTNSGEERDQFTDRADGLHSEFMNYKARAED  
CEELLRIEEDVHWQTEGISSSKDQMDIAMIEQLREAVDLLQDPNGLSTDITERSVLNL  
YPMGSAEALQLDSALNGQIQLETSPVCEVQSDLTLSNGSQYSPNEIRENSPAVSPTTN  
STAPFGLKPRSVFLRPQRNLESIDPQFTIRRKMEQMREEKELVEQLRESIEMRLKVSLE  
DLGAALMDGVVLCHLVNHIRPRSVASIHVPSPAVPKLSMAKCRNVENFLEACRKLGVPE  
ADLCSPCDILQLDFRHIRKTVDTLALGEKAPPPTSALRSRDLIGFCLVHILFIVLVYIT  
YHWNALSA

>sp|Q8ND94|LRN4L\_HUMAN LRRN4 C-terminal-like protein OS=Homo sapiens GN=LRRN4CL PE=2 SV=1  
MLGSPCLLWLLAVTFLVPRAPLAPQDFEEEEADETETAWPPLPAVPCDYDHCRLQVPC  
KELQRVGPAACLCPLSSPAQPPDPPRMGEVRIAAEEGRAVVHWCAPFSPVLHYWLLWD  
GSEAAQKGPPLNATVRRRELKGLKPGGIYVVCVVAANEAGASRPQAGGEGLEGADIPAF  
GPCSRLAVPPNPRTLVAHAVGVGTALALLSCAALVWHFCLRDWRWGCPRRAAAAAAGAL

>sp|Q32MZ4|LRRF1\_HUMAN Leucine-rich repeat flightless-interacting protein 1 OS=Homo sapiens GN=LRRFIP1 PE=1 SV=2

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SRRNTSASDEDERMSVSGRGLRVEERPEKDFTEKGSRNMPGLSAATLASLGGTSSRRGS  
GDTISISIDTEASIREIKELNELKDQIQDVEGKYMQLKEMKDSLAEEVEEKYKKAMVSNAQ  
LDNEKTNFMYQVDTLKDMLLEEEQLAESRRQYEEKNEFEREKHAHSILQFQFAEVKEA  
LKQREEMLEKHGIILNSEIATNGETSDTLNNGVYQGPTKMTKEELNALKSTGDGTLGRAS  
EVEVKNEIVANVGKREILHNTKEQHTEDTVKDCVDIEVFPAGENTEDQKSSEDTPFLG  
TLGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDDRTRTPLEPSNCWSDLDGGNHT  
ENVGEAAVTQVEEQAGTVASCPGLGHSDDTVYHDDKCMVEVPQELSTGHSLEKEFTNQE  
AAEPKEVPAHSTEVGRDHNEEGEETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDT  
QNEPLDMKEPDEEKSDQQGEALDSSQKTKNKKKKKKKKSPVPVETLKDVKKELTYQNT  
DLSEIKEEEQVKSTDRKSAVEAQNEVTENPKQKIAAESSENVDCPENPKIKLDGKLDQEG  
DDVQTAAEEVLADGDTLDFEDDTVQSSGPRAGGEELDEGVAKDNAIDGATQSSPAEPKS  
EDADRCTLPEHESPSQDISDACEAESTERCESHPSTVRKALDSNSLENDLDSAPGRE  
PGHFNPESEDTRGGNEKGSKEDCTMS

>sp|Q5S007|LRRK2\_HUMAN Leucine-rich repeat serine/threonine-protein kinase 2 OS=Homo sapiens GN=LRRK2 PE=1 SV=2

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HVPLLIVLDSYMRVASVQVGWSSLCKLIEVCPGTMQSLMGPQDVGNDWEVLGVHQLILK  
MLTVHNASVNLVIGLKTLDLLTSGKITLLILDEESDIFMLIFDAMHSFPANDEVQKLG  
CKALHVLFERVSEEQLTEFVENKDYMILLSALTNFKDEEIVLVHLHCLHSLAIPCNNVE  
VLMSGNVRCYNIVVEAMKAFPMSERIQEVSCCLLHRLTLGNFFNIVLNEVHEFVVKAVQ  
QYPENAALQISALSCLALLTETIFLNQDLEEKNEQENDEGEEDKLFWLEACYKALTWH  
RKNKHVQEAACWALNNLMYQNSLHEKIGDEGDGHFPAHREVMLSMLMHSSSKEVFQASAN  
ALSTLLEQNVNFRKILLSKGIHLNVLELMQKHIHSPEVAESGCKMLNHLFEGSNTSLDIM

AAVVPKILTVMKRHETSLPVQLEALRAILHFIVPGMPESREDTEFHKKLNMVKKQCFKN  
DIHKLVLAAALNRFIGNPGIQKCGLKVISSIVHFPDALEMLSLEGAMDSVLHTLQMPDDQ  
EIQCLGLSLIGYLITKKNVFIGTGHLAKILVSSLYRFKDAEIQTKGFQTLAILKLSA  
SFSKLLVHHSFDLVIFHQSSNIMEQKDQQLNLCKCFKAVAMDDYLKNVLERACDQN  
NSIMVECLLLGADANQAKEGSSLICQVCEKESSPKLVELLLNSGSREQDVRKALTISIG  
KGDSQIISLLLRRLALDVANNISICLGGFCIGKVEPSWLGPLFPDKTSNLRKQTNIASTLA  
RMVIRYQMKSAVEEGTAGSDGNFSEDVLSKFDEWTFIPDSSMDSVFAQSDDLSEGESE  
SFLVKKKSNSISVGEFYRDAVLQRCSPNLQRHSNSLGPFDHEDLLKRKRKILSSDDSLR  
SSKLQSHMRHSDSISSLASEREYITSLDLSANELRDIIDALSQKCCISVHLEHLEKLELHQ  
NALTSFPQQLCETLKSLETHLDLHSNKFTSFPSYLLKMSCIANLDVSRNDIGPSVVDPTV  
KCPTLKQFNLSYNQLSFVPENLTDVVEKLEQLILEGNKISGICSPRLKELKILNLSKNH  
ISSLSENFLEACPKEVESFSARMNFLAAMPFLPPSMTILKLSQNKFSCEIPAILNPLHRS  
LDMSSNDIQYLPGAHWKSLNRELFSHNQISILDSEKAYLWSRVEKLHLSHNKLKEI  
PPEIGCLENLTSLDSYNLELRSFPNEMGKLSKIWDLPLDELHLNFDKFHIGCKAKDIIR  
FLQQLKKAQVYNRMKLMIVGNTGSGKTTLLQQLMKTKKSDLGMSATVGIDVKDWPIQI  
RDKRKRDLVLNVWDFAGREEFYSTHPHMTQRALYLAVYDLSKGQAEVDAMKPWLFNIKA  
RASSSPVILVGTHLDVSEKQKACMSKITKELLNKRGFPAIRDYHFVNATEESDALAKL  
RKTII NESLNFKIRDQLVVGQLIPDCYVELEKIILSERKNVPIEFPVIDRKRLLQLVREN  
QLQDENELPHAVHFLNESGVLLHFQDPALQLSDLYFVEPKWLCKIMAQILTVKVEGCPK  
HPKGIISRRDVEKFLSKKRKFPKNYMSQYFKLEKFQIALPIGEEYLLVPSSLSHRPVI  
ELPHCENSEIIIRLYEMPYFPMGFW SRLINRLLEISPYMLSGRERLRPNRMYWRQGIYL  
NWSPEAYCLVGSEVLNHPESFLKITVPSCRKGCILLGQVVDHIDSLMEEWFPGLLEIDI  
CGEGETLLKKWALYSFNDGEEHQKILLDDLMKKAEEGDLLVNPDPRLTIPISQIAPDLI  
LADLPRNIMLNDELEFEQAPEFLLDGSGFSVYRAAYEGEEVAVKIFNKHTSLRLLRQE  
LVVLCHLHHPSLISLLAAGIRPRMLVMEASKGSLDRLLQQDKASLRTTLQHRIALHVAD  
GLRYLHSAMIIYRDLKPHNVLLFTLYPNAAIIAKIADYGIAQYCCRMGIKTSEGTGPFRA  
PEVARGNVIYNQQADVYSFGLLLYDILTGGRIVEGLKFPNEFDELEIQGKLDPVKEYG  
CAPWPMVEKLIKQCLKENPQERPTSAQVFDILNSAELVCLTRILLPKNVIVECMVATHH  
NSRNASIWLGCGHTRDQGLSFLDLNTEGYTSEEVADSRILCLALVHLPVEKESWIVSGTQ  
SGTLLVINTEDGKKRHTLEKMTDSVTCLYCNSFSKQSKQKNFLLVGTADGKLAIFEDKTV  
KLKGAAPLKILNIGNVSTPLMCLSESTNSTERNVMWGGCGTKIFSFSNDFTIQKLIETRT  
SQLFSYAAAFSDSNIIITVVVDALYIAKQNSPVVEVWDKTEKLCGLIDCVHFLREVMVKE  
NKESKHKMSYSGRVKTLCLQKNTALWIGTGGGHILLDLSTRRLIRVIYNFCNSVRVMMT  
AQLGSLKNVMLVLGYNRKNTEGTQKQKEIQSCLTVWDINLPHEVQNLEKHIEVRKELAEK  
MRRTSVE

>sp|Q9HBL6|LRTM1\_HUMAN Leucine-rich repeat and transmembrane domain-containing protein 1  
OS=Homo sapiens GN=LRTM1 PE=2 SV=1

MKGELLFSSVIVLLQVVCSPDKCYCQSSTNFVDCSQGLAEIPSHLPPQTRTLHLQDN  
QIHHLPAFAFRSPWMLTNLSNNSLSNLAPGAFHGLQHLQVLNLTQNSLLSLESRLFHS  
LPQLRELDLSSNNISHLPTSLGETWENLTILAVQQNLQQLDRALLESMPVRLLLKDN  
LWKCNCCHLLGLKLWLEKFVYKGGLTDGIICESPDTWKGKDLLRIPHELYQCPLPAPDPV  
SSQAQWPGSAHGVLRPENHNAGERELLECELKPKPRPANLRHAIATVITGVVCGIVC  
LMMLAAAIYGCTYAAITAQYHGGPLAQTNDPGKVEEKERFDSSPA

>sp|P01229|LSHB\_HUMAN Lutropin subunit beta OS=Homo sapiens GN=LHB PE=1 SV=3

MEMLQGLLLLLLLSMGAWASREPLRPWCHPINAILAVEKEGCPVCITVNTTICAGYCPT  
MMRVLQAVLPPLPQVVCTYRDVRFESIRLPGCPRGVDPVVSFPVALSCRCGPCRRSTSDC  
GGPKDHPLTCDHPQLSGLLFL

>sp|Q969L4|LSM10\_HUMAN U7 snRNA-associated Sm-like protein LSM10 OS=Homo sapiens GN=LSM10  
PE=1 SV=1

MAVSHSVKERTISENSLIILLQGLQGRVTTVDLRDESVAHGRIDNDAFMNIRLAKVTYT  
DRWGHQVKLDDLFTGRNVRYVHIPDDVNITSTIEQQLQIIHRVRNFGGKGQGRWEFPPK  
NCK

>sp|Q86X29|LSR\_HUMAN Lipolysis-stimulated lipoprotein receptor OS=Homo sapiens GN=LSR  
PE=1 SV=4

MQQDGLGVGTRNGSGKGRSVHPSWPWCAPRPLRYFGRDARARRAQTAAALLAGGLSRGL  
GSHPAAGRDVAVFVWLLSTWCTAPARAIQVTVSNPYHVILFQPVTLPTYQMTSTPT  
QPIVIWKYKSFCDRIADAFSPASVDNQLNAQLAAGNPGYNPYVEQCDSVRTVRVATKQ  
GNAVTLGDYYQGRRITITGNADLTFDQTAWGDSGVYYCSVVSAQDLQGNNEAYAELIVLG  
RTSGVAELLPGFQAGPIEDWLFVVVVCLAFLIFLLLGICWCQCCPHTCCCYVRCPCCPD  
KCCCPEALYAAGKAATSGVPSIYAPSTYAHLSPAKTTPPPAMIPMPAYNGYPGGYPGDV  
DRSSSAGGQGSYVPLLRDTSVASEVRSYRIQASQQDDSMRVLYMEKELANFDPSRP  
GPPSGRVERAMSEVTSLEDHWRSPSRGPALTPIRDEEWGGHSPRSPRGWDQEPAREQA  
GGGWRARRPRARSVDALDDLTPSTAESGSRSPTSNGGRSRAYMPPRSRSRDDLYDQDDS  
RDFPRSRDPHYDDFRSRERPPADPRSHHRTDPRDNGSRSGDLPYDGRLLLEEAVRKKGS  
EERRRPHKEEEEEAYPPAPPPYSETDSQASRERRLKKNLALSRESLVV

>sp|O00453|LST1\_HUMAN Leukocyte-specific transcript 1 protein OS=Homo sapiens GN=LST1  
PE=1 SV=2

MLSRNDDICIYGGLGLGGLLLLAVVLLSACLCLWLHRRVKRLERSWAQGSSEQELHYASLQ  
RLPVPSSEGPLRGRDKRGTKEDPRADYACIAENKPT

>sp|Q9HCC9|LST2\_HUMAN Lateral signaling target protein 2 homolog OS=Homo sapiens  
GN=ZFYVE28 PE=1 SV=3

MMNRFRKWLYKPKRSDPQLLARFYADEELNQVAAELDSLGRKDPQRCTLLVSQFRSCQ  
DNVLNIINQIMDECIPQDRAPRDFCVKFPEEIRHDNLAGQLWFGAECLAAGSIIMNRELE  
SMAMRPLAKELTRSLEDVRGALRDQALRDLNTYTEKMREALRHFDVLF AEFELSYVSAMV  
PVKSPREYVYQGEVIVLCETVERALDFGYLTQDMIDDYEPALMFSIPRLAIVCGLVVYA  
DGPLNLDKVEDMSELFPRFHTLLRKIRDLLQTLTEEELHTLERNLCISQDVEFPIRADV  
QGPAALAPALSAPLPPEGPLSAKAKDPDAELACSMQYDDQELEQLSRMVHRAGDEMSSLL  
SPPIACQSPAHRPGAEGSPGGEASPRPRLRSGSDEEERVFFMDDVEGTAEALARPESPA  
GPFGWAGSTWADPQEKGGGGGAAGISLPASEKEEDLSNNNLEAEGTDGASLAGTSSCS  
CLDSRLHLDGWEVGADDAETAEMIAHRTGGMKLSATVIFNPKSPTSLDSAVATQEAASEP  
VAEGMDGGPHKLSTGATNCLLHSCVCCGSCGDSREDVVERLREKCSPPGGVIGASYAAGLA  
KASDRAPERQEEAPPPSEDASNGREPKAPTSKCLPHTSGSQVDTASGLQGEAGVAGQQE  
PEARELHAGSPSAHEAPQALSGSSSSTAGSCSSDKMGPEAAPAATHAAPQATREKIRSRF  
HGSHDLIHRLFVCISGVADQLQTNYASDLRSILKTLFEVMATKPETDDKEKLRKVTQTLR  
SAALEDCAQCETLSSSELAAKTRDGFDPPEWVPDEACGFCTACKAPFTVIRKHHCR  
SCGKIFCSRCSHSAPLPRYGQVKPVRVCTHCYMFHVTPFYSDKAGL

>sp|Q15722|LT4R1\_HUMAN Leukotriene B4 receptor 1 OS=Homo sapiens GN=LTB4R PE=1 SV=2  
MNTTSSAAPSLGVEFISLLAIILLSVALAVGLPGNSFVVWSILKRMQKRSVTALMVLNL

ALADLAVLLTAPFFLHFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVA  
RPFVSQKLRTKAMARRVLGIWVLSFLLATPVLAYRTVVPWKTNMSLCFPRYPSEGHRAF  
HLIFEAVTGFLLPFLAVVASYSIDIGRRLQARRFRRSRRTGRLVVLIILTFAAFWLPYHV  
NLAEAGRALAGQAAGLGLVGKRLSLARNVLIALAFLSSSVNPVLYACAGGGLLSAGVGF  
VAKLLEGTGSEASSTRRGGSLGTARSGPAALEPGPSESLTASSPLKLNELN

>sp|Q9NPC1|LT4R2\_HUMAN Leukotriene B4 receptor 2 OS=Homo sapiens GN=LTB4R2 PE=2 SV=1

MAPSHRASQVGFCTPERPLWRLPPTCRPRRMSVCYRPPGNETLLSWKTSRATGTAFLLL  
AALLGLPGNGFVWWSLAGWRPARGRPLAATLVHLALADGAVLLLTPLFVAFLTRQAWPL  
GQAGCKAVYYVCALSMYASVLLTGLLSLQRCLAVTRPFLAPRLRSPALARRLLAVWLAA  
LLLAVPAAVYRHLWRDRVCQLCHPSPVHAAHLSLETLTAFVLPFGLMLGCYSVTLARLR  
GARWGSGRHGARGRLVSAIVLAFGLLWAPYHAVNLLQAVAALAPPEGALAKLGGAGQAA  
RAGTTALAFFSSSVNPVLYVFTAGDLLPRAGPRFLTRLFEGSGEARGGGRSREGTMELRT  
TPQLKVVGQGRGNGDPGGGMEKDGPEWDL

>sp|Q9UHA4|LATOR3\_HUMAN Ragulator complex protein LAMTOR3 OS=Homo sapiens GN=LAMTOR3 PE=1 SV=1

MADDLKRFLYKKLPSVEGLHAIVVSDRDGVPVIKVANDNAPEHALRPGFLSTFALATDQG  
SKLGLSKNKSIICYNTYQVVQFNRLPLVVSFIASSSANTGLIVSLEKELAPLFEELRQV  
VEVS

>sp|P51884|LUM\_HUMAN Lumican OS=Homo sapiens GN=LUM PE=1 SV=2

MSLSAFTLFLALIGGTSGQYYDYDFPLSIYGQSSPNCAPCNCPESEYPSAMYCDELKLKS  
VPMVPPGIKYLYLRNNQIDHIDEKAFENVTDLQWLILDHNLENSKIKGRVFSKLKQLKK  
LHINHNNLTESVGPLPKSLEDLQLTHNKITKLGSFGLVNLTFIHLQHNRLKEDAVSAAF  
KGLKSLEYLDLSFNQIARLPSGLPVSLTLYLDNNKISNIPDEYFKRFNALQYLRLSHNE  
LADSGIPGNSFNVSSLVELDLSYNKLNIPVTNENLENYYLEVNQLEKFDIKSFCKILGP  
LSYSKIKHLRLDGNRISETSLPPDMECLRVANEVTLN

>sp|Q8IV03|LUR1L\_HUMAN Leucine rich adaptor protein 1-like OS=Homo sapiens GN=LURAP1L PE=1 SV=2

MEDSPLPDLRDIELKLGRKVPESLVRSLRGEPPVPRERDRDPCGGSGGGGGGGGGGGCS  
SSSSYCSFPPSLSSSSSSSPTSGSPRGSHSSALERLETKLHLLRQEMVNLRTDVRMLRQ  
LLVINESIESIKWMIIEKATITSRGSSLSGSLCSLLESQSTSLRGSYNLHDGSDGLDGI  
SVGSYLDTLADDVPGHQTPSDLDQFSDSSLIEDSQALHKRPKLDSEYYCFG

>sp|Q6UWN0|LYPD4\_HUMAN Ly6/PLAUR domain-containing protein 4 OS=Homo sapiens GN=LYPD4 PE=2 SV=2

MGPQHLRLVQLFCLLGAISTLPRAGALLCYEATASRFRAVAFHNWKWLLMRNMVCKLQEG  
CEETLVFIETGTARGVVGFKGCSSSSYPAQISYLVSPPGVSIASYSRVCRSYLCNNLTN  
LEPFVKLKASTPKSITSASCSCPTCVGEHMKDCLPNFVTTNSCPLAASTCYSSTLKFAQG  
FLNTTFLLMGCAREHNQLLADFFHHIGSIKVTEVLNILEKSQIVGAASSRQDPAWGVLGL  
LFAFRD

>sp|Q6UWN5|LYPD5\_HUMAN Ly6/PLAUR domain-containing protein 5 OS=Homo sapiens GN=LYPD5 PE=1 SV=2

MAMGVPRVILLCLFGAALCLTGSQALQCYSFEHTYFGPFDLRAMKLPSISCPHECFEAIL  
SLDTGYRAPVTLRKGCWTGPPAGQTQSNADALPPDYSVVRGCTTDKCNAPLMTDALPN  
LSQAPDPPTLSGAECYACIGVHQDDCAIGRSRRVQCHQDQACFQGNRMTVGNFVSVVY  
IRTCHRPSCCTTEGTTSPWTAIDLQGSCEGYLCNRKSMTQPFTSASATTPPRALQVLALL



LPVLLLVLGSA

>sp|Q7Z4W2|LYZL2\_HUMAN Lysozyme-like protein 2 OS=Homo sapiens GN=LYZL2 PE=2 SV=2  
MKAAGILTLIGCLVTGAESKIYTRCKLAKIFSRAGLDNYWGFSLGNWICMAYYESGYNTT  
AQTVLDDGSIDYGIQINSFAWCRRGKLENNHCHVACSALVTDDLTDATICAKKIVKET  
QGMNYWQGWWKHCEGRDLSDWKKDCEVS

>sp|O75951|LYZL6\_HUMAN Lysozyme-like protein 6 OS=Homo sapiens GN=LYZL6 PE=2 SV=1  
MTKALLIYLVSSFLALNQASLISRCDLAQVLQLEDLDGFEGYSLSDWLCLAFVESKFNIS  
KINENADGSFDYGLFQINSHYWCNDYKSYSENLCVDCQDLLNPFLAGIHCARKRIVSGA  
RGMNNWVEWRLHCSGRPLFYWLTGCRLR

>sp|Q86VH5|LRRT3\_HUMAN Leucine-rich repeat transmembrane neuronal protein 3 OS=Homo sapiens GN=LRRTM3 PE=2 SV=2

MGFNVIRLLSGSAVALVIAPTLLTMLSSAERGCPKGCRCGKMVYCESQKLQEIPSSIS  
AGCLGLSLRYNSLQKLKYNQFKGLNQLTWLYLDHNHISNIDENAFNGIRRLKELILSSNR  
ISYFLNNTFRPVTNLRNLDLSYNQLHSLGSEQFRGLRKLSSLHLRSNSLRTIPVRIFQDC  
RNLELDDLGYNRIRSLARNVFAGMIRLKLHLEHNQFSKLNALFPRLVSLQNLYLQWNK  
ISVIGQTMSWTWSSLQRLDLGNEIEAFSGPSVFQCVPNLQRLNLDNKLTFIGQEILDS  
WISLNDISLAGNIWECSRNICSLVNWLSKFKGLRENTIICASPKEQGVNVIDAVKNYSI  
CGKSTTERFDLARALPKPTFKPKLPRPKHESKPPLPPTVGATEPGPETDADAEHISFHKI  
IAGSVALFLSVLVILLVIYVSWKRYPASMKQLQQRSLMRRHRKKKRQSLKQMPSTQEFY  
VDYKPTNTETSEMLLNGTGCTYKSGSRECEIPLSMNVSTFLAYDQPTISYCGVHHELL  
SHKSFETNAQEDTMETHLETELDLSTITTAGRISDHKQQLA

>sp|Q6UWE0|LRSM1\_HUMAN E3 ubiquitin-protein ligase LRSAM1 OS=Homo sapiens GN=LRSAM1 PE=1 SV=1

MPLFFRKRKPSEEARKRLEYQMCLAKEAGADDILDISKCELSEIPFGAFATCKVLQKKVL  
IVHTNHLTSLLPKSCSLLSLATIKVLDLHDNQLTALPDDLGLTALQVLNVERNQLMQLP  
RSIGNLTQLQTLNVKDNKLELPDVTGELRSLRTLNISGNEIQRLPQMLAHVRTLEMLSL  
DASAMVYPPREVCAGTAAILQFLCKESGLEYYPPSQYLLPILEQDGIENSRLSPDGPTD  
RFSREELEWQNRFSYDYEKRKEQKMLEKLEFERRLELGQREHTQLLQQSSSQKDEILQTVK  
EEQSRLEQGLSEHQRLNAERQRLQEQLKQTEQNISSRIQKLLQDNQRQKSSEILKSLE  
NERIRMEQLMSITQEETESLRRRDVASAMQMLTESCKNRLIQMAYESQRQNLVQQACSS  
MAEMDERFQQILSWQQMDQNKAISQILQESAMQKAAFEALQVKKDLMHRQIRSQIKLIET  
ELLQLTQLELKRKSLDTESLQEMISEQRWALSSLLQQLKEKQQRREEELREILTELEAKS  
ETRQENYWLIIYQRLNQLKPLSLKQEEGMRQLVALLEELSAEHYLPFAHHRLSLDLL  
SQMSPGDLAKGVSEAGLQHEILRRVQELLDAAARIQPELKPPMGEVVTPTAPQEPPEVSR  
PSAPPAELEVQASECVVCLEREAMIFLNCGHVCCCQCCQPLRTCPLCRQDIAQRLRIY  
HSS

>sp|P83369|LSM11\_HUMAN U7 snRNA-associated Sm-like protein LSM11 OS=Homo sapiens GN=LSM11 PE=1 SV=2

MEERERGARSAGAGSPARPPSPRLDVSSDSFDPLLALYAPRLPPIYPNAPCFNNVAEYE  
SFLRTGVRGGGRGRGRARGAAAGSGVPAAPGPSGRTRRRPDAPAPDPERIQRLRLRMVAK  
EEGDGAAGAGRRGPGRSRKAPRNVLTRMPLHEGSPLGELHRCIREGVKVNVIHRTFKGLR  
GVCTGFLVAFDFKFWNMALTDVDETYRKPVLGKAYERDSSLTLTRLFDRLLKLDSSKKEAD  
SKSAVEDSTLSRYSQTSTWKLASVWGRADTGRGSHKRSRSPSSLQASAREESRSELSGR  
TTRTDGSSVGGTFSRATTLSRGQSRKKKKRKPVDYQQVFTRHINQIFIRGENVLLVHLAQ

>sp|Q6IAA8|LATOR1\_HUMAN Ragulator complex protein LAMTOR1 OS=Homo sapiens GN=LAMTOR1 PE=1  
SV=2

>sp|Q86V48|LUZP1\_HUMAN Leucine zipper protein 1 OS=Homo sapiens GN=LUZP1 PE=1 SV=2

>sp|Q9P127|LUZP4\_HUMAN Leucine zipper protein 4 OS=Homo sapiens GN=LUZP4 PE=1 SV=1

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>sp|P01700|LV147_HUMAN Immunoglobulin lambda variable 1-47 OS=Homo sapiens GN=IGLV1-47
PE=1 SV=2
```

```
>sp|P01715|LV301_HUMAN Immunoglobulin lambda variable 3-1 OS=Homo sapiens GN=IGLV3-1 PE=1
SV=2
```

```
>sp|P01718|LV327_HUMAN Immunoglobulin lambda variable 3-27 OS=Homo sapiens GN=IGLV3-27
PF=1 SV=2
```

```
>sp|Q9BS40|LXN HUMAN Latexin OS=Homo sapiens GN=LXN PE=1 SV=2
```

MEIPTNYPASRAALVAQNYINYQQGTPHRVFEVQKVKQASMEDIPGRGHKYHLKFAVEE  
IIQKQVKVNCTAEVLYPSTGQETAPEVNFTFEGETGKNPDEEDNTFYQRLKSMKEPLEAQ  
NIPDNFGNVSPEMTLVLHLAWVACGYIIWQNSTEDTWYKMKVIQTVKQVQRNDDFIELDY  
TILLHNIASQEIIIPWQMQLWHPQYGTGVKHNSRLPKEVQLE

>sp|P12980|LYL1\_HUMAN Protein lyl-1 OS=Homo sapiens GN=LYL1 PE=1 SV=3

MCPPQAQAEVGPTMTEKAEMVCAPSPAPAPPPKASPGPPQVEEVGHRGGSSPPRLPPGV  
PVISLGHSRPPGVAMPTTELGLTRPPLLQLSTLGTAPPTLALHYHPHPFLNSVYIGPAGP  
FSIFPSSRLKRRPSHCELDLAEGHQPKVARRVFTNSRERWRQQNVNGAFAELRKLLPTH  
PPDRKLSKNEVLRAMKYIGFLVRLLRDQAAALAAGPTPPGPRKRPVHRVPDDGARRGSG  
RRAEAAARSQPAPPADPDGSPGGAARPIKMEQTALSPEVR

>sp|P07948|LYN\_HUMAN Tyrosine-protein kinase Lyn OS=Homo sapiens GN=LYN PE=1 SV=3

MGCISKSGKDSLDDGVDLKTQPVNRTERTIYVRDPTSNKQQRVPVPSQLLPQGRFQTKD  
PEEQGDIVVALYPYDGIHPDDL SFKKGEKMKVLEEHEGWWKAKSLLTKKEGFIPSNYVAK  
LNTLETEEWFVKDITRKDAERQLLAPGNSAGAFIRESLTKGSFSLSVRDFDPVHGDVI  
KHYKIRSLDNGGYYISPRITFCISDMIKHYKQADGLCRRLEKACISPKPKQPWDKDAW  
EIPRESIKLVKRLGAGQFGEVWMGYNNSTKVAVKTLKPGTMSVQAFLEENLMTLQHD  
KLVRLYAVVTREEPIYIITEYMAKGSLLDFLKSDEGGKVLPLKIDFSAQIAEGMAYIER  
KNYIHRDLRAANVLVSESLMCKIADFGLARVIEDNEYTAREGAKFPIKWTAPEA INFGCF  
TIKSDVWSFGILLYEIVTYGKIPIPGRTNADVMTALSQGYRMPRVENCPELYDIMKMCW  
KEKAEERPTFDYLSVLDDFYTATEGQYQQQP

>sp|Q6UX82|LYPD8\_HUMAN Ly6/PLAUR domain-containing protein 8 OS=Homo sapiens GN=LYPD8  
PE=1 SV=2

MKGILVAGITAVLVAAVESLSCVQCNSWEKSCVNSIASECPSHANTSCISSSASSSLETP  
VRLYQNMFCSAENCSEETHITAFTHVHSAEEHFHFVSQCCQKKECSNTSDALDPPLKNVS  
SNAECPACYESNGTSGHKPWKCYEEECVFLVAELKNDIESKSLVLKGCSNVSNATCQF  
LSGENKTLGGVIFRKFECANVNSLTPTSAPTTHNVGSKASLYLLALASLLLRGLLP

>sp|Q5VWZ2|LYPL1\_HUMAN Lysophospholipase-like protein 1 OS=Homo sapiens GN=LYPLAL1 PE=1  
SV=3

MAAASGSVLQRCIVSPAGRHSASLIFLHSGDSGQGLRMWIKQVLNQDLTFQHIKIIYPT  
APPRSYPMKGGISNVWFDRFKITNDCEHLESIDVMCQVLTDLIDEEVKSGIKKNRILI  
GGFSMGGCMAIHLAYRNHQDVAGVFALSSFLNKASAVYQALQKSNGVLPFLFQCHGTADE  
LVLSHSAEETNSMLKSLGVTTKFHSFPNVYHELKTELDILKLWILTKLPGEKQK

>sp|Q96KX0|LYZL4\_HUMAN Lysozyme-like protein 4 OS=Homo sapiens GN=LYZL4 PE=2 SV=1

MKASVLSLLGYLVVPSGAYILGRCTVAKKLHDGGLDYFEGYSLENWVCLAYFESKFNPM  
AIYENTREGYTGFLFQMRGSDWCGDHGRNRCHMSCSALLNPNLEKTIKAKTIVKGKEG  
MGAWPTWSRYCQYSDTLARWLDGCKL

>sp|Q96QH8|LYZL5\_HUMAN Sperm acrosome-associated protein 5 OS=Homo sapiens GN=SPACA5 PE=2  
SV=1

MKAWGTVVVTLATLMVVTVDKIIYERCELAARLERAGLNGYKGYGVGDWLCMAHYESGFD  
TAFVDHNPDSSEYGIQFLNSAWWCDNGITPTKNLCHMDCHDLLNRHILDDIRCAKQIVS  
SQNGLSAWTSWRLHCSGHDLSEWLKGCMDMHVKIDPKIHP

>sp|Q8N653|LZTR1\_HUMAN Leucine-zipper-like transcriptional regulator 1 OS=Homo sapiens  
GN=LZTR1 PE=1 SV=2

MAGPGSTGGQIGAAALAGGARSKVAPSVDFDHSCSDSVEYLTNFGPFETVHRWRRLPPC

DEFVGARRSKHTTVAYKDAIYVFGDNGKTMNDLLRFDVKDCSWCRAFTTGTTPAPRYH  
HSAVYVGSSMFVFGGYTGDIIYSNSNLKNKNDLFEYKFATGQWTEWKIEGRLPVARSAHGA  
TVYSDKLWIFAGYDGNARLNDMWITIGLQDRELTCWEEVAQSGEIPSCCNFPVAVCRDKM  
FVFSGQSGAKITNNLFQFEFKDKTWTRIPTEHLLRGSPPPPQRRYGHTMVAFDRHLYVFG  
GAADNTLPNELHCYDVFQTWEEVQPSDDSEVGGAEVPERACASEEVPTLTYEERVGFKK  
SRDVFGLDFGTSAKQPTQPASELPSGRLFHAAAVISDAMYIFGGTVDDNIRSGEMYRFQ  
FSCYPKCTLHEDYGRLEWESRQFCDFEVLGEKEECVQHVAIVTARSRLRRKITQARER  
LAQKLEQEAAVPREAPGVAAGGARPPLLHVAIREAEARPFVLMQFLYTDKIKYPRKGH  
VEDVLLIMDVYKLALSFQLCRLEQLCRQYIEASVDLQNVLVVCESAARLQLSQLKEHCLN  
FVVKESHFNQVIMMKEFERLSSPLIVEIVRRKQPPPRTPLDQPDIGTSLIQDMKAYLE  
GAGAEFCDITLLLDGHPRAHKAAILAARSSYFEAMFRSFMPEGGQVNISIGEMVPSRQAF  
ESMLRYIYYGEVNMPPEDSLYLFAAPYYYGFYNNRLQAYCKQNLNMTVQNVLQILEAA  
DKTQALDMKRHCLHIIVHQFTKVSKLPTLRSLSQQLLLDIIDSLASHISDKQCAELGADI

>sp|060299|LZTS3\_HUMAN Leucine zipper putative tumor suppressor 3 OS=Homo sapiens GN=LZTS3  
PE=2 SV=1

MAKLETLPVRADPGRDLLAFAPRPSSELGPPDPRLAMGSGVSGVAHAQEFAMKSVGTRTG  
GGGSQGSFPGPRSGSGASRERPGRYPSDKGLANSYLNGELRGSDHTDVCNVVGGSSG  
GSSSSGGSDKAPPQYREPSHPPKLLATSGKLDQCSEPLVRPSAFKPVVPKNFHSMQNLCP  
PQTNGTPEGRQPGGLKGGLDKSRTMTPAGGSGSLSDSGRNSLTSLPTYSSSYSQHLAP  
LSASTSHINRIGTASYGSGSGSGSGSGSYQDLGTSDSGRASSKSGSSSMGRPGLHSG  
EGGGGLPFAACSPSPSALIQEERLWEKEQEVAALRRSLEQSEAAVAQVLEERQKAW  
ERELAELRQGC SGKLQQVARRAQRAQQGLQLQVLRLLQQDKQLQEEAARLMRQREELEDK  
VAACQKEQADFLPRIETKWEVCQKAGEISLLKQQLKDSQADVSQKLSEIVGLRSQREG  
RASLREKEEQLLSLRDSFSSKQASLELGEGELPAACLKPALTPVDPAPQDALATCESDE  
AKMRRQAGVAAAASLVSDGEAEAGGESGTRALRREVGRLQAELAERRARERQGASFAE  
ERRVWLEEKEKVIEWQKQLQLSYVEMYQRNQQLERRLRERGAAGGASTPTPQHGEKKAW  
TPSRLERIESTEII

>sp|Q12852|M3K12\_HUMAN Mitogen-activated protein kinase kinase kinase 12 OS=Homo sapiens  
GN=MAP3K12 PE=1 SV=2

MACLHETRTPSPSFGGFVSTLSEASMRKLDPDTSCTPEKDLTPTHVLQLHEQDAGGPGG  
AAGSPESRASRVRADEVRLQCQSGSGFLEGLFGCLRPVWTMIGKAYSTEKQQQEDLWEV  
PFEEILDQLQWVGSAQGAFLGRFHGEEVAVKKVRDLKETDIKHLRKLKHPNIIITFKGVC  
TQAPCYCILMEFCAQGLYEVLRAGRPVTSSLVDWSMGIAGGMNYLHLHKIIHRDLKSP  
NMLITYDDVVKISDFGTSKELSDKSTKMSFAGTVAWMAPEVIRNEPVSEKVDIWSFGVVL  
WELLTGEIPYKDVSSAIIWGVGSNSLHLPVPSSCPDGFKILLRQCWNSKPRNRPFRQI  
LLHLDIASADVLSTPQETYFKSQAEWREEVKLHFEEKIKSEGTCLHRLEEELVMRRREELR  
HALDIREHYERKLERANNLYMELNALMLQLELKERELLRREQALERRCPLLKPHPSRGL  
LHGNTMEKLIKRNVPQKLSPHSKRPDILKTESLLPKLDAALSGVGLPGCPKGPPSPGRS  
RRGKTRHRKASAKGSCGDLPLRLTAVPPHEPGGPGSPGGLGGPSAWACPPALRGLHHD  
LLLRLKSSSSPDLLSALGSRGRGATGGAGDPGSPPPARGDTPPSEGSAPGSTSPDSPGG  
AKGEPPPPVPGEGVGLLTGREGTSGRGGSRAGSQHLTPAALLYRAAVTRSQKRGISSE  
EEEGEVDSLEVELTSSQRWPQSLNMRQSLSTFSSENPSDGEEGTASEPSPSGTPEVGSTNT  
DERPDERSDDMCQSGSEIPLDPPPSEVIPGPEPSSLPIPHQELLRERGPNSDSDCDST  
ELDNSNSVDALRPPASLPP

>sp|O60476|MA1A2\_HUMAN Mannosyl-oligosaccharide 1,2-alpha-mannosidase IB OS=Homo sapiens  
GN=MAN1A2 PE=1 SV=1

MTTPALLPLSGRRIPPLNLGPPSFPHHRATLRLSEKFILLILSAFITLCFGAFFFLPDS  
SKHKRFDLGLEDVLI PHVDAGKGAKNPGVFLIHGPDEHRHREERLRNKIRADHEKALE  
EAKEKLKRSREEIRAEIQTEKNKVQEMKIKENKPLPPVIPNLVGIRGGDPEDNDIREK  
REKIKEMMKHAWDNYRTYGGWGHNELRPIARKGHSPNIFGSSQMGATIVDALDTLYIMGLH  
DEFLDQGRWIEDNLDVSVNSEVSVFEVNIRFIGGLAAYYLSGEEIFKIKAVQLAEKLLP  
AFNTPTGIPWAMVNLKSGVGRNWGWASAGSSILA EFGTLHMEFIHLSYLTGDLTYKKVM  
HIRKLLQKMDRPNGLYPNYLNPRTGWRGQYHTSVGGLGDSFYEYLLKAWLMSDKTDHEAR  
KMYDDAIEAIEKHLIKSRGGLTFIGEWKNGHLEKKMGHLACFAGGMFALGADGSRADKA  
GHYLELGAEIARTCHESYDRTALKGPESFKFDGAVEAVVRQAKEYYILRPEVIETYWY  
LWRFTHDPRYRQGWEEAALAIEKYCRVNGGFSGVKDVYSSTPTHDDVQQSFFLAETLKYL  
YLLFSGDDLPLDHWVFNTEAHPLPVLHLANTTSLGNPAVR

>sp|Q9UKM7|MA1B1\_HUMAN Endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-  
mannosidase OS=Homo sapiens GN=MAN1B1 PE=1 SV=2

MAACEGRRSGALGSSQSDFLTPPVGGAPWAVATTVMYPPIPPPPPHRDFISVTLFGENY  
DNSKSWRRRSCWRWKQLSRLQRNMILFLLAFLFCGLLFYINLADHWKALAFRLEEEQK  
MRPEIAGLKPANPPVLPAPQKADTDPENLPEISSQKTQRHIQRGPPHLQIRPPSQDLKDG  
TQEEATKRQEAPVDPREPQDPQRTVISWRGAVIEPEQGTELPSSRAEVPTKPPLPPARTQ  
GTPVHLNRYRQGVIDVFLHAWKGYRKFAWGHDELKPVSRFSSEWFGGLTLIDALDTMWI  
LGLRKEFEARKWVSKLHFEKDVDVNLFESTRILGGLLSAYHLSGDSLFLRKAEDFGN  
RLMPAFRTPSKIPYSDVNIGTGAHPPRWTS DSTVAEVTSIQLEFRELSRLTGDKKFQEA  
VEKVTQHIHGLSGKKDGLVPMFINTHSGLFTHLGVFTL GARADSYEYLLKQWIIQGGKQE  
TQLLEDYVEAIEGVRTHLLRHSEPSKLT FVGELAHGRFSAKMDHLVCFLPGTLALGVYHG  
LPASHMELAQELMETCYQMNRMETGLSPEIVHFNLYPQPGRRDVEVKPADRHNL RPET  
VESLFYLYRVTGDRKYQDWGWEILQSFSRFRTRVPSGGYSSINNVQDPQKPEPRDKMESFF  
LGETLKYLFLFSDDPNLLSLDAYVFNTEAHPLPIWTPA

>sp|Q16706|MA2A1\_HUMAN Alpha-mannosidase 2 OS=Homo sapiens GN=MAN2A1 PE=1 SV=2

MKLSRQFTVFGSAIFCVVIFSLYLMLDRGHLDPNPRREGSFPQGQLSMLQEKIDHLER  
LLAENNEIISNIRDSVINLSSEVEDGPKSSQSNFSQGAGSHLLPSQLSLSVDTADCLFAS  
QSGSHNSDVQMLDVYSLISFDNPDGGVWKQGF DITYESNEWDT EPLQVFVPHSHNDPGW  
LKT FN DYFRDKTQYIFNMVLKLKEDSRKF I WSEISYLSKWWDIIDIQKKDAVKSLIEN  
GQLEIVTGGWMPDEATPHYFALIDQLIEGHQWLENNIGVKPRSGWAIDPFGHSPTMAYL  
LNRAGLSHMLIQRVHYAVKKHFALHKTLEFFWRQNWDLGSVTDILCHMMPFYSYDIPHTC  
GDPKICCCQFDFKRLPGGRFGCPWGVPPETIHPGNVQSRARMLLDQYRKKS KLFR TKVLL  
APLGDDFRYCEYTEWDLQFKNYQQLFDYMNSQSKFKVKIQFGT L SDFFDALDKADETQRD  
KGQSMFPVLSGDFFTYADRDDHYWSGYFTSRPFYKRM DRIMESH LRAAEILYYFALRQAH  
KYKINKFLSSSLYTALTEARRNLGLFQHDAITGTAKDWVVVDYGTRLFHSLMVLEKIIIG  
NSAFLLLILKDKLTYDSYSPDTFLEMDLKQKSQDSL PQKNIRLSAEPRYL VVYNPLEQDR  
ISLVS VYVSSPTVQVFSASGKPV EVQVSAVWDTANT ISETAYEISFRAHIPPLGLKVYKI  
LESASSNSHLADYVLYKNKVEDSGIFTIKNMINTEEGIT LENSFVLLRFDQTGLMKQMMT  
KEDGKHHEVNVQFSWYGTTIKRDKSGAYLFLPDGNAPYVYTPPFVRVTHGRIYSEVTC  
FFDHVTHRVRLYHIQGIEGQSVEVSNIVDIRKVYNREIAMKISSDIKSQNRFYTDLNGYQ  
IQPRMTLSKLPLQANVYPMTT MAYIQDAKHRLTLLSAQSLGVSSLNSGQIEVIMDRRLMQ

DDNRGLEQGIQDNKITANLFRILLEKRSVNTSEEEKSVSYPSLLSHITSSLMNHPVIM  
ANKFSSPTLELQGEFSPLQSSLPDIHLVNLRTIQSKVGNHGSNEAALILHRKGFDCRFS  
SKGTGLFCSTTQGKILVQKLLNKFIVESLTPSSLSLMHSPPGTQNISEINLSPMEISTFR  
IQLR

>sp|Q13021|MALL\_HUMAN MAL-like protein OS=Homo sapiens GN=MALL PE=1 SV=2

MASDPDPATSYAPSDVPSGVALFLTIPFAFFLPELIFGFLVWTMVAATHIVYPLLQGWVM  
YVSLTSFLISLMFLLSYLFGFYKRFESWRVLDLSYHGTTGILYMSAAVLQVHATIVSEKL  
LDPRIYYINSAASFFAFIATLLYLHAFSIYYH

>sp|P21145|MAL\_HUMAN Myelin and lymphocyte protein OS=Homo sapiens GN=MAL PE=1 SV=1

MAPAAATGGSTLPSGFSVFTTLPDLLFIFEFIFGGLVWILVASSLPWPVLVQGWVMFVSV  
FCFVATTTLIILYIIGAHGGETSWVTLDAAHYCTAALFYLSASVLEALATITMQDGFTYR  
HYHENIAAVVFSYIATLLYVHAVFSLIRWKSS

>sp|Q9H8J5|MANS1\_HUMAN MANSC domain-containing protein 1 OS=Homo sapiens GN=MANS1 PE=2  
SV=1

MFFGGEGSLTYTLVVICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKGIRGNPVTSTQ  
EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCYLCFPCNEEACPLKPAKGLMSYRII  
TDFPSLTRNLPSQELPQEDSLLHGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD  
HLEKLFKMDEASQLLAYKEKGHSQSSQFSSDQEIAHLLPENVSALPATVAVASPHTTSA  
TPKPATLLPTNASVTPSGTSQPQLATTAPPVTTVTSQPPTTLISTVFTRAAATLQAMATT  
AVLTTTFQAPTDSKGSLETIPFTEISNLTNTGNVYNPTALSMSNVESSTMNKTASWEGR  
EASPGSSSQGSVPENQYGLPFEKWLLIGSLLFGVLFLVIGLVLLGRILSESLRRKRYSL  
DYLINGIYVDI

>sp|P78559|MAP1A\_HUMAN Microtubule-associated protein 1A OS=Homo sapiens GN=MAP1A PE=1  
SV=6

MDGVAEFSEYVSETVDVPSPFDLLEPPTSGGFLKLSKPCCYIFPGGRGDSALFAVNGFNI  
LVDGGSDRKSCFWKLVRLDRIDSVLLTHIGADNLPGLNGLLQKVAEEEEQSQGSSSY  
SDWVKNLISPELGVVFFNVPEKLRLPDASRKAKRSIEEACLTQLHLNRLGIAEPLYRVV  
SNTIEPLTLFHKMGVGRDLMYVLNPVKDSKEMQFLMQKWAGNSKAKTGIVLPNGKEAETS  
VPYLTISITLVVWLPANPTEKIVRVLPFGNAPQNKILEGLEKLRHLDFLRYPVATQKDLA  
SGAVPTNLKPSKIKQRADSKESLKATTKTAVSKLAKREEVVEEGAKEARSELAKELAKTE  
KKAKESSEKPEKPAKPERVKTESSEALKAERKRLIKDKVGKKHLKEKISKLEKKDKEK  
KEIKKERKELKKDEGRKEEKDAKKEEKRKDTKPELKKISKPDLPFTPEVRKTLYKAKV  
PGRVKIDRSRAIRGEKELSSEPQTPPAQKGTVPLPTISGHRELVLSSPEDLTQDFEEMKR  
EERALLAEQRDTGLGDKPFLDTAEEGPPSTAIQGTPPSVPLGQEEHVMKEKELVPEVP  
EEQGSKDRGLDSGAETEEKDTWEEKQREARLPDRTEAREESEPEVKEDVIEKAELEE  
MEEVHPSDEEEDATKAEGFYQKHMQEPLKVTPRSREAFGGRELGLQGKAPEKETSLFLS  
SLTTPAGATEHVSIIQDETIPGYSETEQTIISDEEIHDEPEERPAPPRFHTSTYDLPGPEG  
AGPFEASQPADSAVPATSGKVYGTPELTETPTNIVAAPLAEEHVSSATSITECDKLSS  
FATSAEDQSVASLTAPQTEETGKSSLLDVTSTIPSSRTEATQGLDYVPSAGTISPTSS  
LEEDKGFKSPCEDFSVTGESEKRGEIIGKGLSGERAVEEEEEETANVEMSEKLCSEQGT  
PVFSAPGHALHPGEPALGEAEERCLSPDDSTVKMASPPPSGPPSATHTPFHQSPVEEKSE  
PQDFQEADSWGDKTRTPGVGKEDAAEETVKPGPEEGTLEKEEKVPPPRSPQAQAEAPVNID  
EGLTGCTIQLLPAQDKAIVFEIMEAGEPTGPILGAEALPGGLRTLPQEPGPKQKDEVRLY  
PDRSLSPEDAESLSVLSVSPDPTANQEPTPKSPCGLTEQYLHKDRWPEVSPEDTQSLSLS

EESPSKETSLDVSSKQLSPESLGTLLQFGELNLGKEEMGHLMQAEDTSHHTAPMSVPEPHA  
ATASPPTDGTTRYSAQTDITDDSLDRKSPASSFSHSTPSGNGKYLPGAITSPEHILTPD  
SSFSKSPESLPGPALEDIAIKWEDKVPGLKDRTSEQKKEPEPKDEVLLQKDKTLEHKEVV  
EPKDTAIYQKDEALHVKNKAVKQKQDKALEQKGRDLEQKDTALEQKDKALEPKDKDLEEKD  
KALEQKDKIPEEKDKALEQKDTALEQKDKALEPKDKDLEQKDRVLEQKEKIPEEKDKALD  
QKVRSEVHKAPEDTVAEMKDRDLEQTDKAPEQKHQAQEQKDKVSEKKDQALEQKYWALGQ  
KDEALEQNIQALEENHQTQEESLVQEDKTRKPKMLEEKSPKVKAMEEKLEALLEKTKA  
LGLLESLVQEGRAREQEKEYWRGQDVVQEWQETSPTREEPAGEQKELAPAWEDTSPEQDN  
RYWRGREDVALEQDTYWRELSCKERKVVFPHELDGQGARGPHYTEERESTFLDEGPDDEQEV  
PLREHATRSPWASDFKDFQESSPPQKGLEVERWLAESPVGLPPEEEDKLTRSPFEIISPPA  
SPPEMVGQRVPSAPGQESPIPDPKLMPHMKNEPTTPSWLADIPPWVPKDRPLPPAPLSPA  
PGPPTPAPESHTPAPFSWGTAEYDSVVAQVQEGAAELEGGPYSPLGKDYRKAEGERE EEG  
RAEAPDKSSHSSKVPEASKSHATTEPEQTEPEQREPTYPYDERSFYADIYEQMMLTGLG  
PACPTREPPLGAAGDWPPCLSTKEAAAGRNTSAEKELSSPISPKSLQSDTPTFSYAALAG  
PTVPPRPEPGSPMEPSLTPPAVPPRAPILSKGPSPLNGNILSCSPDRRSPSPKESGRSH  
WDDSTSDELEKGAREQPEKEAQSPSPPHPIPMGSPTLWPETEAHVSPPLDShLGPARPS  
LDFPASAFGFSSLPAPPQLPSPAEPRAPCGSLAFSGDRALALAPGPPTRRHDEYLEV  
TKAPSLDSSLPQLPSPSSPGAPLLSNLPRPASPALSEGSSSEATTPVISSVAERFSPSLE  
AAEQESGELDPGMEPAHSLWDLTPLSPAPPASLDLALAPAPSLPGDMGDGILPCHLECS  
EAATEKPSPFQVPSEDCANGPTETSPNPPGPAPAKAENEEAACPAWERGAWPEGAERS  
SRPDTLLSPEQVPCPAGSGGPPSSASPEVEAGPQGCATEPRPHRGELSPSFLNPPLPPS  
IDDRDLSTEEVRLVGRGGRRRVGGPGTTGGPCPVTDETPTTSASDSGSSQSDSDVPPETE  
ECPSITAEALDSEDEGDFLPVDKAGGVSGTHHPRPGHDPPLPQPDPRPSPRPDVCMA  
DPEGLSSESGRVERLREKEKVQGRVGRRAPGKAKPASPARRLDLRGKRSPTPGKGPADRA  
SRAPRPRSTTSQVTPAEEDKGHSPMSKGLVNLKAGPMALSSKGSSGAPVYVDLAYIPN  
HCSGKTADLDFRRVRASYVVSNDPANGEPSRAVLDALEGAQWGENLQVTLIPTHD  
TEVTREWYQQTHEQQQLNLVLASSSTVVMQDESFPACKIEF

>sp|Q969Z3|MARC2\_HUMAN Mitochondrial amidoxime reducing component 2 OS=Homo sapiens  
GN=MARC2 PE=1 SV=1

MGASSSSALARLGLPARPWPRWLGVAAALGLAAVALGTVAWRRRAWPRRRRRLQQVGTVAKL  
WIYPVKSCKGVPVSEAECTAMGLRSGNLRDRFWLVIKEDGHMVTARQEPRLVLISIIYEN  
NCLIFRAPDMDQLVLPKQPSNKLHNCRIFGLDIKGRDCGNEAAKWFTNFLKTEAYRLV  
QFETNMKGRTSRKLLPTLDQNFQVAYPDYCPLLIMTDASLVDLNRMEKKMKMENFRPNI  
VVTGCDAFEEDTWDELLIGSVEVKVMACPRCILTTPDPDTGVIDRKQPLDTLKSRYLCD  
PSERELYKLSPLFGIYYSVEKIGSLRVGDPVYRMV

>sp|Q15691|MAPE1\_HUMAN Microtubule-associated protein RP/EB family member 1 OS=Homo  
sapiens GN=MAPRE1 PE=1 SV=3

MAVNVYSTSVTSDNLSRHMLAWINESLQLNLTKIEQLCSGAAYCQFMDMLFPGSIALKK  
VKFQAKLEHEYIQNFKILQAGFKRMGVDKIIPVDKLVKGKFQDNFEFVQWFKKFFDANYD  
GKDYPVAARQGQETAVAPSLVAPALNPKPKPLTSSSAAPQRPISQRTAAAPKAGPGVV  
RKNPGVGNGDDEAAELMQQVNVKLTVEDLEKERDFYFGKLRNIELICQENEGENDPVLQ  
RIVDILYATDEGFVIPDEGGPQEEQEEY

>sp|Q9UPY8|MARE3\_HUMAN Microtubule-associated protein RP/EB family member 3 OS=Homo  
sapiens GN=MAPRE3 PE=1 SV=1

MAVNVYSTSVTSENLSRHDLAWVNDLHLNNTKIEQLCSGAAYCQFMDMLFPGCVHLRK  
VKFQAKLEHEYIHNFKVLQAAFKKMGVDKIIPVEKLVKGFQDNFEFIQWFKKFFDANYD  
GKDYNPLLARQGQDVAPPPNPGDQIFNKSKKLIGTAVPQRTSPTGPKMQTSGRLSNVAP  
PCILRNPPSARNGGHETDAQILELNQQLVDLKLTVDGLEKERDFYFSKLRDIELICQEH  
ESENSPVISGIIGILYATEEGFAPPEDDEIEEHQQEDQDEY

>sp|A6NNE9|MARHB\_HUMAN E3 ubiquitin-protein ligase MARCH11 OS=Homo sapiens GN=MARCH11  
PE=2 SV=3

MSFEGGHGSRGAESEGADEPPPPPPPTPPPGEPAPVPAAPRYLPPLASPETPE  
RAAGPSEPLGEVAPRCRGADELPPPLPLQPAQGEVAAAGDSGEGPRRLPEAAAAKGGPG  
ESEAGAGGERERRGAGDQPETRSVCSSRSSSSGGGQDRAGHQHQQHPICKICFQGAEQG  
ELLNPCRCDGSVRYTHQLCLLKWISERGSWTCELCCYRYHVIAIKMKQPCQWQSISITLV  
EKVQMIAVILGSLFLIASVTWLLWSAFSPYAVWQRKDILFQICYGMYGFMDLVCIGLIVH  
EGAAYRVFKRWRVAVNLHWDVLNYDKATDIEESSRGESSTRTLWLPLTALNRNLVHPT  
QLTSPRFQCGYVLLHLFNRMRPHEDLSEDNSSGEVVMRVTSV

>sp|Q7KZI7|MARK2\_HUMAN Serine/threonine-protein kinase MARK2 OS=Homo sapiens GN=MARK2  
PE=1 SV=2

MSSARTPLPTLNERDTEQPTLGHLDSPSSKSNMIRGRNSATSADQPHIGNYRLKLTIG  
KGNFAKVKLARHILTGKEVAVKIIDKTQLNSSLQKLFREVRIMKVLNHPNIVKLFEVIE  
TEKTLYLVMYASGGEVFDYLVHGRMKEKEARAKFRQIVSAVQYCHQKFIVHRDLKAEN  
LLLDADMNIKIADFGFSNEFTFGNKLDTFCSPPYAAPELFQGGKYDGPEVDVWSLGVIL  
YTLVSGSLPFDGQNLKELRERVLRGKYRIPFYMSTDCENLLKKFLILNPSKRGTLQIMK  
DRWMNVGHEDDELKPYVEPLPDYKDPRTLMVSMGYTREEIQDSL VGQRYNEVMATYLL  
LGYKSSELEGDTITLKPRPSADLTNSSAPSPSHKVQRSVSANPKQRRFSDQAAGPAIPTS  
NSYSKKTQSNNAENKRPEEDRESGRKASSTAKVPASPLPLGLERKKTTPSTNSVLSTST  
NRSRNSPLLERASLGQASIQNGKDSLTPGSRASASAAVSAARPRQHQSMSASVHP  
NKASGLPPTESNCEVPRPSTAPQRPVAVSPSAHNISSSGGAPDRTNFPRGVSSRSTFHAG  
QLRQVRDQQNLPGVTPASPSGHSQGRRGASGSIFSFTSKFVRRNLSFRFARRNLNEPE  
SKDRVETLRPHVVGSGNDKEEFREAKPRSLRFTWSMKTTSMEPNEMMREIRKVLDA  
NSCQSELHEKYMLLCMHGTPGHEDFVQWEMEVCCLPRLSLNGVRFKRISGTSMAFKNIAS  
KIANELKL

>sp|Q96L34|MARK4\_HUMAN MAP/microtubule affinity-regulating kinase 4 OS=Homo sapiens  
GN=MARK4 PE=1 SV=1

MSSRTVLAPGNDRNSDTHGTGSGRSSDKGPSWSSRSLGARCNSIASCPPEEQPHVGNRYR  
LLRTIGKGNFAKVKLARHILTGREVAIKIIDKTQLNPSLQKLFREVRIMKGLNHPNIVK  
LFEVIEKTEKTLYLVMYASAGEVFDYLVSHGRMKEKEARAKFRQIVSAVHYCHQKNIVHR  
DLKAENLLDAAENIKIADFGFSNEFTLGSKLDTFCSPPYAAPELFQGGKYDGPEVDIW  
SLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSTDCESILRRFLVLNPAKRCT  
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEV  
TATYLLGRKTEEGDGRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQR  
RHSDFCGSPAPLHPKRSPTSTGEAELKEERLPGRKASCSTAGSGSRGLPPSSPMVSSAH  
NPNKAEIPERRKDSTSTPNNLPPSMMTRNTYVCTERPGAERPSLLPNGKENSSTGTPRVP  
PASPSHSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGVQNGPPASPTLAHE  
AAPLPAGRPRPTTNLFTKLSKLTTRVADEPERIGGPEVTSCHLPWDQTETAPRLLRFPW  
SVKLTSSRPPEALMAALRQATAAAARCRCRQPQPFLACLHGGAGGPEPLSHFEVEVCQLP



RPGLRGVLFRRVAGTALAFRTLVTTRISNDLEL

>sp|P48740|MASP1\_HUMAN Mannan-binding lectin serine protease 1 OS=Homo sapiens GN=MASP1  
PE=1 SV=3

MRWLLLYALCFSLSKASAHTVELNNMFQGIQSPGYPDSPSDSEVTWNITVPDGFRIKL  
YFMHFNLESSYLCEYDYVKVETEDQVLATFCGRETTEQTPGQEVVLSPGSFMSITFRS  
DFSNEERFTGFDAHYMAVDVDECKEREDEELSCDHYCHNYIGGYCSCRFGYILHTDNRT  
CRVECSDNLTQRTGVITSPDFPNPYKSSSECLYTIELEEGFMVNLQFEDIFDIEDHPEV  
PCPYDYIKIKVGPKVLGPFCEKAPEPISTQSHSVLILFHSDNSGENRGWRLSYRAAGNE  
CPQLQPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKIP  
TCKIVDCRAPGELEHGLITFSTRNNLTTYKSEIKYSCQEPYKMLNNNTGIYTCSAQGVW  
MNKVLGRSLPTCLPVCGLPKFSRKLMAIFNGRPAQKGTTPWIAMLSHLNGQPFCCGSSL  
GSSWIVTAACHLHQSLDPEDPTLRSDLLSPSDFKIILGKHWRLSDENEQHLGVKHTTL  
HPQYDPNTFENDVALVELLESPVLNAFVMPICLPEGPQQEGAMVIVSGWGKQFLQRFPET  
LMEIEIPIVDHSTCQKAYAPLKKKVTRDMICAGEKEGGKDACAGDSGGPMVTLNRERGQW  
YLVGTVSWGDDCGKKDRYGVVSYIHHNKDWIQRVTGVRN

>sp|O60307|MAST3\_HUMAN Microtubule-associated serine/threonine-protein kinase 3 OS=Homo  
sapiens GN=MAST3 PE=1 SV=2

MDESSLRRRGLQKELSLPRRGRGCRSGNRKSLVVGTPSPTLSRPLSPLSVPTAGSSPLD  
SPRNFSAAALNFPFARRADGRWLSLASLPSSGYGTNTPSSTLSSSSSRERLHQLPFQP  
TPDELHFLSKHFRSENVLDEEGRSPRLRPRSRLSPGRATGTFDNEIVMMNHVYRERF  
PKATAQMEGRLEFLTAYAPGARLALADGVLGFIIHQIVELARDCLAKSGENLVTSRYFL  
EMQEKLERLLQDAHERSDSEEVFIVQLVRKLLIIISRPARLLECLEFDPEEFYHLEAA  
EGHAREGQGIKTDLPQYIIIGQLGLAKDPLEEMVPLSHLEEQPPAPESPESRALVGQSRR  
KPCESDFETIKLISNGAYGAVYLVHRDTRQRFIAKKINKQNLILRNQIQQVFVERDILT  
FAENPFVVSFCSFETRRHLCMVMEYVEGGDCATLLKNMGPLPVDMARLYFAETVLALEY  
LHNYGIVHRDLKPDNLLITSLGHIKLTDFGLSKIGLSMATNLYEGHIEKDAREFIDKQV  
CGTPEYIAPEVIFRQGYGKPDWWAMGVVLYEFLVGCVPFFGDTPEELFGQVVSDEIMWP  
EGDEALPADAQDLITRLLRQSPDLRLGTGGTHEVKQHPFFLALDWAGLLRHKAEFVPQLE  
AEDDTSYFDTRSERYRHLGSEDDDETNDSESTEIPQFSSCSHRFSKVYSSEFLAVQTP  
TFAERSFSEDREEGWERSEVDYGRRLSADIRLSWTSSGSSCQSSSSQPERGPPSPSLNT  
ISLDTMPKFAFSSEDEGVGPGPAGPKRPVFILGEPDPPAATPVMPKPSSLSADTAALSH  
ARLRSNSIGARHSTPRPLDAGRGRRLGGPRDPAPEKSRASSGGSGGSGGRVPKSASVS  
ALSLIITADDGSGGPLMSPLSPRSLSSNPSSRDSSPSRDPSPVCGSLRPPIVIHSSGKKY  
GFSLRAIRVYMGDSVYTVHHVVSVSDGSPAQEAGLRAGDLITHINGESVLGLVHMDVV  
ELLLKSGNKISLRTALENTSIKVGPAKKNVAKGRMARRSKRSRRRETQDRRKSLFKKIS  
KQTSVLHTSRFSFSSGLHHSLSSESLEPGSPTHSLSPSPTTPCRSPAPDVPADTTASPPSA  
SPSSSSPASPAAAGHTRPSSLHGLAAKLGP RPKTGRRKSTSSIPPSPLACPPISAPPPR  
SPSPLPGHPPAPARSRLRRGQSADKLGTGERLDGEAGRRTRGPEAELVVMRRLHLSERR  
DSFKKQEAQVQSFDEPQEEATGLPTSVPQIAVEGEEAVPVALGPTGRD

>sp|Q8N4P6|LRC71\_HUMAN Leucine-rich repeat-containing protein 71 OS=Homo sapiens  
GN=LRR71 PE=2 SV=1

MSSEQSAPGASPRAPRPGTQKSSGAVTKKGERAAKEKPATVLPVVGEEEPKSPEEYQCSG  
VLETDFAECLTRWGYTDFPKVVRPRPHPPFVPASLSEKATLDDPRLSGSCSLNSLESK  
YVFFRPTIQVELEQEDSKSVKEIYIRGWKVEERILGVFSKCLPPLTQLQAINLWKVGLTD

KTLTTFIELLPLCSSTLRKVSLEGNPLPEQSYHKLMALDSTIAHLSLRNNNIDDRGAQLL  
GQALSTLHSCNRTLVS LNLGFNHIGDEGAGYIADGLRLNRSLLWLSLAHNRIQDKGALKL  
AEVLRAFELTHTEVVERRRLLLEKGTQERSRSPSSSRHGDSKTDREKSQMVGISNSALVD  
KTDKTQTMKTPKGLGKKKEKSWELAKKEELGSGQSPTQGT PKEDATKAGKGKVTIPEQ  
KPSRAKGIGKSREKRSILLESELVVEATEVVNPLEPVEHRDGKVFMPGNKVLLHLNLI  
RNRITEVGLEGFLATVQYQM QFSKAKSASKGPVGLLWLSLAKNCFAPQCPAYAIIQELML  
PRDPIKAKLREDEAMAFFP

>sp|Q6NSJ5|LRC8E\_HUMAN Volume-regulated anion channel subunit LRRC8E OS=Homo sapiens  
GN=LRRC8E PE=1 SV=2

MIPVAEFKQFTEQQPAFKVLKPWWDLAEYLTVAMLMIGVFGCTLQVTQDKIICLPNHEL  
QENLSEAPCQQLPRGIPEQIGALQEVKGLKNNLDLQQYSFINQLCYETALHWYAKYFPY  
LVVIHTLIFMVCTSFWFKFPGTSSKIEHFISILGKCFDSPWTTRALSEVSGENQKGPAAT  
ERAAATIVAMAGTGPGKAGEGEKEKVLAEPEKVVTEPPVVTLDDKKEGEQAKALFEKVKK  
FRMHVEEGDILYTM YIRQTVLKVCKFLAILVYNLVYVEKISFLVACRVETSEVTGYASFC  
CNHTKAHLFSKLAFICYISFVCIYGLTCIYTLWLFHRPLKEYSFRSVREETGMGDIPDVK  
NDFAFMLHLIDQYDSL YSKRFAVFLSEVSESRLKQLNLNHEWTPEKLRQKLQRNAAGRLE  
LALCMLPGLPDTVFELSEVESLRLEAICDITFPPGLSQLVHLQELSL LHSPARLPFSLQV  
FLRDHLKVMRVKCEELREVPLVWFGLRGLEELHLEGLFPQELARAATLESRELKQLKVL  
SLRSNAGKVPASVTDVAGHLQRLSLHNDGARLVALNSLKKLAALRELELVACGLERIPHA  
VFSLGALQELDLKDNHLRSIEEILSFQHCRKLVTLRLWHNQIAYVPEHVRKLSLEQLYL  
SYNKLETLP SQLGLCSGLRLLDVSHNGLHSLPPEVG LLLQNLQHLALSYNALALPEELFF  
CRKLRTLLLGDNQLSQLSPHV GALRALSRLELKGNRLEALPEELGNCGLKKAGLLVEDT  
LYQGLPAEVRDKMEEE

>sp|Q96LR2|LURAP1\_HUMAN Leucine rich adaptor protein 1 OS=Homo sapiens GN=LURAP1 PE=1 SV=1

MEGTVESQTPDLRDVEGKVGRKTPEGLLRGLRGECELGTS GALLLP GASSTGHDLGDKIM  
ALKMELAYLRAIDVKILQQLVTLNEGIEAVRWLLEERGTLTSHCSSLTSSQYSLTGGSPG  
RSRRGSWDSLPTSTTDRLDSV SIGSFLDTVAPSELDEQPPGAPRSEMDWAKVIAGGER  
ARTEVDVAATRLGSLRAVWKPPGERLQGGPPESPEDESAKLGFEAHWFWEQCDDVTFL

>sp|O75342|LX12B\_HUMAN Arachidonate 12-lipoxygenase, 12R-type OS=Homo sapiens GN=ALOX12B  
PE=1 SV=1

MATYKVRVATGTDLLSGTRDISLTIVGTQGESHKQLLNHFGRDFATGAVGQYTVQCPQD  
LGELIIIRLHKERYAFFPKDPWYCNYVQICAPNGRIYHFPAYQWMDGYETLALREATGKT  
TADDSLPVLLEHRKEEIRAKQDFYHWRVFLPGLPSYVHIPSYPVRRHRNPNRPEWNGY  
IPGFPILINFKATKFLNLNLRYSFLKTASFFVRLGPMALAFKVRGLLDCKH SWKRLKDIR  
KIFPGKKS VVSEYVAEHWAEDTFFGYQYLNGVNPGLIRRCTRI PDKFPVTDDMVAPFLGE  
GTCLQAELEKGN IYLADYRIMEGIPTVELSGRKQHHCAPLC LLHFGPEGKMMPIA IQLSQ  
TPGPDCPIFLPSDSEWDLLAKTWVRYAEFY SHEAIAHLLETHLIAEAFCLALLRNLP MC  
HPLYKLLIPHTRYTVQINSIGRAVLLNEGGLSAKGMSLGEVGFAGVMVRALSELTYDSLY  
LPNDFVERGVQDLPGYYRDDS LAVWNALEKYVTEIITYYPSDAAVEGDPELQSWVQEI  
FKECLLGRESSGFPRCLRTVPELIRYVTIVITYTCSAKHAAVNTGQMEFTAWMPNFPASMR  
NPPIQTKGLTTLET FMDTLPDVKTTCITLLVLWTL SREPDDRRLGHFPDIHFVEEAPRR  
SIEAFRQLNQISHDIRQNKCLPIPYYYLDPVLIENSISI

>sp|O15296|LX15B\_HUMAN Arachidonate 15-lipoxygenase B OS=Homo sapiens GN=ALOX15B PE=1  
SV=3

MAEFRVRVSTGEAFGAGTWDKVSIVGTRGESPLPLDNLGKEFTAGAEEDFQVTLPED  
VGRVLLLRVHKAPPVLP LLGPLAPDAWFCRWFQLTPPRGGHLLFPCYQWLEGAGTLVLQE  
GTAKVSWADHHPVLQQQRQEELQARQEMYQWKAYNPGWPHCLDEKTVEDLELNKYSTAK  
NANFYLQAGSAFAEMKIKGLLDRKGLWRS LNEMKRIFNFRRTPAAEHAFEHWQEDAFFAS  
QFLNGLNPVLI RRCHYLPKNFPVTDAMVASVLGPGTSLQAELEKGSFLVDHGILSGIQT  
NVINGKPKQFSAAPMTLLYQSPGCGPLLPLAIQLSQTGPNSPIFLPTDDKWDWLLAKTWV  
RNAEFSFHEALTHLLHSHLLPEVFTLATLRQLPHCHPLFKLLIPHTRYTLHINTLARELL  
IVPGQVVDRTSGIGIEGFSELIQRNMKQLNYSLLCLPEDIRTRGVEDIPGYYYRDDGMQI  
WGAVERFVSEIIGIYYPSDESVDRELQAWVREIFSKGFLNQESSGIPSSLETREALVQ  
YVTMVI FTCSAKHAAVSAGQFDSCAWMPNLPSPMQLPPPTSKGLATCEGF IATLPPVNAT  
CDVILALWLLSKEPGDQRPLGTYPDEHFTTEAPRRSIATFQSRLAQISRGIQERNQGLVL  
PYTYLDPPLIENS VSI

>sp|O95867|LY66C\_HUMAN Lymphocyte antigen 6 complex locus protein G6c OS=Homo sapiens  
GN=LY6G6C PE=1 SV=1

MKALMLLTL SVLLCWVSADIRCHSCYKVPVLGCVDRQSCRLEPGQQCLTTHAYLGKMWVF  
SNLRCGTPEEPCQEAFNQTNRKLG LTYNTCCNKDNCNSAGPRPTPALGLVFLTSLAGLG  
LWLLH

>sp|P10253|LYAG\_HUMAN Lysosomal alpha-glucosidase OS=Homo sapiens GN=GAA PE=1 SV=4

MGVRHPPCSHRLLA VCALVSLATAALLGHILLHDFLLVPRELSGSSPVLEETHPAHQQGA  
SRPGPRDAQAHPGRPRAVPTQCDVPPNSRFD CAPDKAITQE QCEARGCCYIPAKQGLQGA  
QMGQPWCFFPPSPYSYKLENLSSEMGYTATLTRTTPTFFPKDILTLRLDVM METENRLH  
FTIKDPANRRYEVPLETPHVHSRAPSPLYSVEFSEEPFGVIVRRQLDGRVLLNTTVAPLF  
FADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTRITLWNRDLAPTGANLYGSHPFYLA  
LEDGGS AHGVFLLNSNAMDVVLQSPALSWRSTGGILDVYIFLGPEPKSVVQQYLDVVG Y  
PFMPPYWGLGFHLCRWGSSTAITRQVVENMTRAHFPLDVQWNDLDYMSRRDFTFNKDG  
FRDFPAMVQELHQGGRRYMMIVDPAISSSGPAGSYRPYDEGLRRGVFITNETGQPLIGKV  
WPGSTAFP DFTNP TALAWWEDMVAEFHDQVPFDGMWIDMNEPSNFIRGSEDGCPNNELEN  
PPYVPGVVG GTLQAATICASSHQFLSTHYNLHNL YGLTEA IASHRALVKARGTRPFVISR  
STFAGHGRYAGHWTDGVWSSWEQLASSVPEILQFNLLGVPLVGADVCGFLGNTSEELCVR  
WTQLGAFYPFMRNHNSLLSLPQEPYSFSEPAQQAMRKALTRYALLPHLYTLFHQAHVAG  
ETVARPLFLEFPKDSSTWTVDHQLLWGEALLITPVLQAGKA EVTGYFPLGTWYDLQTVPV  
EALGSLPPPPAAPREPAIHSEGQWVTLPAPLDTINVHLRAGYI IPLQGPG LTTTESRQQP  
MALAVALTKGGEARGELFWDDGESLEVLERGAYTQVIFLARNTIVNELVRVTSEGAGLQ  
LQKVTVLGVATAPQQVLSNGVPVSNFTYSPDTKVL DICVSLLMGEQFLVSWC

>sp|P16109|LYAM3\_HUMAN P-selectin OS=Homo sapiens GN=SELP PE=1 SV=3

MANCQIAILYQRFQRVVFGISQLLCFSALISELTNQKEVA AWTYHYSTKAYSWNISRKYC  
QNRYTDLVAIQNKNEIDYLNKVL PYYSSYYWIGIRKNNKTWTWVGTKKALTNEAENWADN  
EPNNKRNNEDCVEIYIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCKQGECLETIGN  
YTCSCYPGFYGPCEYVRECGELELPQHVL MNCSHPLGNFSFNSQCSFHCTDGYQVNGPS  
KLECLASGIWTKPPQCLAAQCPPLKIPERGNM TCLHSAKAFQHQS SCSFSCEEGFALVG  
PEVVQCTASGVWTAPAPVCKAVQCQHLEAPSEGTMDCVHPLTAFAYGSSCKFECQPGYRV  
RGLDMLRCIDSGHWSAPLPTCEAISCEPLESPVHGSMDCSPSLRAFQYDTNCSFRCAEGF  
MLRGADIVRCDNLGQWTAPAPVCQALQCQDL PVPNEARVNC SHPFGAFRYQSVCSFTCNE  
GLLLVGASVLQCLATGNWNSVPPECQAIPCTPL LSPQNGTMTCVQPLGSSSYKSTCQFIC

DEGYSLSGPERLDCTRSGRWTDSPPMCEAIKCPELFAPEQGS LDCSDTRGEFNVGSTCHF  
SCDNGFKLEGPNNECTTSGRWSATPPTCKG IASLPTPGLQCPALTPGQGTMYCRHHPG  
TFGNNTTCYFGCAGFTLIGDSTLSCRPSGQWTA VTPACRAVKCSELHVNKPIAMNCSNL  
WGNFSYGSICSFHCLLEGQLLNGSAQTACQENGHWSTTVPTCQAGPLTIQEALTYFGGAVA  
STIGLIMGGTLLALLRKRFQKDDGKCPLNPHSHLGT YGVFTNAAFDPSP

>sp|095372|LYPA2\_HUMAN Acyl-protein thioesterase 2 OS=Homo sapiens GN=LYPLA2 PE=1 SV=1  
MCGNTMSVPLLTDAATVSGAERETAAVIFLHGLGDTGHSWADALSTIRLPHVKYICPHAP  
RIPVTLMKMMVPSWFDLMGLSPDAPED EAGIKKAAENIKALIEHEMKN GIPANRIVLGG  
FSQGGALSLYTALTCPHPLAGIVALSCWLPLHRAFPQAANGSAKDLAILQCHGELDPMVP  
VRFGALTAEKLRSVVTPARVQFKTYPGVMHSSCPQEMAAVKEFLEKLLPPV

>sp|Q6UXB3|LYPD2\_HUMAN Ly6/PLAUR domain-containing protein 2 OS=Homo sapiens GN=LYPD2  
PE=2 SV=1  
MRGTRLALLALVLAACGELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTTLYSREIV  
YPFQGDSTVTKSCASKCKPSDVGIGQTLPVSCCNTELCNVDGAPALNSLHCGALTLLPL  
LSLRL

>sp|Q86UE4|LYRIC\_HUMAN Protein LYRIC OS=Homo sapiens GN=MTDH PE=1 SV=2  
MAARSWQDELAQQAEEGSARLREMLSVGLGFLRTELGLDLGLEPKRYPGWVILVGTGALG  
LLLLFLLGYGWAAACAGARKRRSPPRKRE EAAAAPAAAPDDLALLKNLRSEEQKKKNRK  
KLSEKPKPNGRTVEVAEGEAVRTPQSVTAKQPPEIDKKNEKSKKNKKKSKSDAKAVQNSS  
RHDGKEVDEGAWETKISHREKRQQRKRDKVLTD SGLDSTIPGIENTITVTTEQLTTASF  
PVGSKKNKGDSLNVQVSNFKSGKGDSTLQVSSGLNENLTVNGGGWNEKSVKLSSQISAG  
EEKWNSVSPASAGKRKTEPSAWSQDTGDANTNGKDWGRSWSDRSIFSGIGSTAEPVSQST  
TSDYQWDVSRNQPYIDDEWSGLNGLSSADPN SDWNAPAEWGNWVDEERASLLKSQEPIP  
DDQKVSDDDKKEGEGALPTGKSKKKKKKKKQGEDNSTAQDTEELEKEIREDLPVNTSKT  
RPKQEKAFSLKTIISTSDPAEVLVKNSQPIKTLPPATSTEP SVILSKSDSDKSSSQVPPIL  
QETDKSKSNTKQNSVPPSQTKSETSWESPKQIKKKKKARRET

>sp|P61626|LYSC\_HUMAN Lysozyme C OS=Homo sapiens GN=LYZ PE=1 SV=1  
MKALIVLGLVLLSVTVQGVFERCELARTLKRLGMDGYRGISLANWMCLAKWESGYNTRA  
TNYNAGDRSTDYGFQINSRYWCNDGKTPGAVNACHLSCSALLQDNIADAVACAKRVVRD  
PQGIRAWVAWRNRCQNRDVRQYVQGCGV

>sp|043318|M3K7\_HUMAN Mitogen-activated protein kinase kinase kinase 7 OS=Homo sapiens  
GN=MAP3K7 PE=1 SV=1  
MSTASAASSSSSSSAGEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDV  
AIKQIESESERKAFIVELRQLSRVNHPNIVKLYGACLN PVCLVMEYAEGGSLYNVLHGAE  
PLPYTAAHAMSWCLQCSQGVAYLHSMQPKAL IHRDLKPPNLLL VAGGTVLKICDFGTAC  
DIQTHMTNNGSAAWMAPEVFEGSNYSEKCDVFSWGI ILWEVITRRKPFDEIGGPAFRIM  
WAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTHLMRYFPGADEPLQY  
PCQYSDEGQSNSATSTGSFMDIASTNTSNKSDTNMEQVPATNDTIKRLESKLLKNQAKQQ  
SESGRLSLGASRGSSVESLPPTSEGKRMSADMSEIEARIAATTAYSKPKRGHRKTASF GN  
ILDVPEIVISGNGQPRRRSIQDLTVTGTEPGQVSSRSSSPSVRMITTS GPTSEKPTRSH  
WTPDDSTDNGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCKMAQEYMKVQTEI  
ALLLQRKQELVAELDQDEKDDQNTSRLVQEHHKLLDENKSLSTYYQQCKKQLEVIRSQQQ  
KRQGT

>sp|Q96JA4|M4A14\_HUMAN Membrane-spanning 4-domains subfamily A member 14 OS=Homo sapiens  
GN=MS4A14 PE=2 SV=2

MESTSQDRRATHVITIKPNETVLTAFFPYRPHSSLLDFLKGEPRVLGATQILLALIIIVGFG  
TIFALNYIGFSQRLPLVLTGYPFWGALIFILTGYLTVTDKSKLLGQVGTGMNVISSLV  
AITGITFTILSYRHQDKYCMPSFEEICVFSRTLFIIVLFFLPSDVTQNSEQPAPEENDQL  
QFVLQEEFSSDDSTNAQSVIFGGYAFFKLTLRSRPLVSQPGNKGREFVPDEQKQSILPS  
PKFSEEEIEPLPPTLEKKPENMSIQLDSTFKQMKDEDLQSAIVQPSQMQLKLLQDQAAS  
LQVFPSSHALKLEDISPEDLPSQALPVEGLSEQTMPSTSSHVKQSSNLTANDLPPQGI  
LSQDTSSQDMLFHDMSQDMQSLDMLSQDTPSHAMPPQDIPSQDMLSQALSAHAILPEAS  
TSHIVQFPEIQHLLQQPPDLQPENTEPQNNQILQMSYQDIRSEVMEETKEWKSEELHRR  
KSSRRHSLNQQTKALQYLRRHSLDVQAKGQKSSKRHSLDQKSGWQSPKQKSLDQKIKDW  
LSPKRHSVDKQAQLNQTKELPDQQAEDQKAKGEQYPEGQSKDGQVKDQQTKEQNSKKQ  
TQDQQTEDQPAQEKKSPKGQFQNVQAEGQQAQVEKVPKLLCQDSESQIQYQFWQFHKGN  
LQAGQPRTVNLLAKNPLTG

>sp|Q3C1V0|M4A18\_HUMAN Membrane-spanning 4-domains subfamily A member 18 OS=Homo sapiens  
GN=MS4A18 PE=2 SV=2

MTEQVIGANSVPGIIPDNVHVIQPSNPVAGSNHLQPSEVTTPISPKVIHCDTGRANLQ  
NLLVNVQNSAAGVQSQPIGYQRQYPVGTASLQTVPGVIQYTQGTTLNLTWPGLQNPNA  
NPGLTHTSNSSQWNTSFASFTSFNPKKFINEEVRTLGAIQILIGLTHIFSAINPVLYYP  
FVTWLSGYPLWGGLSYIVSGSLSVWAAKDPSPCVVNSSISFNIISALFAFAGIFIIITDL  
SLYYVTTYSKAVSGLLPFALLEFILTCVVSFHGCQATCCRQFENVAVIPTVFSFNPANT  
TTSPVNATTGPVNAATGPVSATN

>sp|P43364|MAGAB\_HUMAN Melanoma-associated antigen 11 OS=Homo sapiens GN=MAGEA11 PE=1  
SV=2

METQFRRGGLGCSPASIKRKKKREDSGDFGLQVSTMFSEDDFQSTERAPYGPQLQWSQDL  
PRVQVFREQANLEDRSPRRTQRITGGEQVLWGPITQIFPTVRPADLTRVIMPLEQRSQHC  
KPEEGLQAQEEGLGLVGAQALQAEQEAFFSSTLNVGTLEELPAAESPSPQSPQEESEF  
SPTAMDAIFGSLSDGSGSKEGEPSTSPDLIDPESFSQDILHDKIIDLVHLLLRKYRVK  
GLITKAEMLGSVIKNYEDYFPEIFREASVCMQLLFGIDVKEVDPTSHSYVLVTSNLNSYD  
GIQCNEQSMPKSGLLIIVLGVIFMEGNCIPEEVMWEVLSIMGVYAGREHFLFGEPKRLIT  
QNWVQEKYLVYRQVPGTDPACYEFLWGPRAHAEYSKMKVLEYIANANGRDPTSYPSTLYED  
ALREEGEGV

>sp|Q9BZ81|MAGB5\_HUMAN Melanoma-associated antigen B5 OS=Homo sapiens GN=MAGEB5 PE=2 SV=2

MTSAGVFNAGSDERANSRDEEYPCSEVSPSTESSCSNFINIKVGLLEQFLLYKFKMKQR  
ILKEDMLKIVNPRYQNFQAEIHRRASEHIEVVFAVDLKEVNPTCHLYDLVSKLKLNNGR  
IHVGKVLPKTGLLMTFLVIFLKGNCANKEDTWKFLDMMQIYDGKKYYIYGEPRKLITQD  
FVRLTYLEYHQVPCSYPAHYQFLWGPAYTETSKMKVLEYLAKVNNDIAPGAFSSQYEEAL  
QDEEESPSQRCSRWHYCSGQDCLRAKFSSFSQPY

>sp|Q969L2|MAL2\_HUMAN Protein MAL2 OS=Homo sapiens GN=MAL2 PE=1 SV=1

MSAGGASVPPPPNPVSPFPVRVTLAPGPDILRTYSGAFVCLEILFGGLVWILVASSNVP  
LPLLQGWVMFVSVTAFFFSLLFLGMFLSGMVAQIDANWNFLDFAYHFTVFVFYFGAFLLE  
AAATSLHDLHCNTTITGQPLSDNQYNINVAASIFAFMTTACYGCSLGLALRRWRP

>sp|Q9UH22|MALAT\_HUMAN Metastasis-associated lung adenocarcinoma transcript 1 OS=Homo  
sapiens GN=MALAT1 PE=4 SV=1

MQIMFSSVVRISGLCLFPNGGMTYNLFCLYLSIHQGAVFSASRPSYCQAGYDSEDAI

>sp|Q6ZQY2|LR74B\_HUMAN Leucine-rich repeat-containing protein 74B OS=Homo sapiens  
GN=LRRC74B PE=2 SV=3

MRGSCERSGEDEEQKEEAMVACGRLSGVPEAEQGPEANWSDLETEGTDGLGELVRDITLY  
LRSCRAHSVVPISCFRLRQGSAQELNLRHRLGPGGARALASSLSSNPYVKRLDLRDNLGLC  
GAGAEALAGALSKSSSIHDVDLSENQLGVAGAAALCAALTVNQAMRKMQLSGNGLEEQAA  
QHLLAELLAHTDLKSLDLSYNQLNDQAGETLGPALAENTGLTELNVSWNHLRGPGAVAF  
RGLEANIFLKVLDISYNGFGDPGASAVGEALKANNVLEELNMSNNRISAMGALSGLGLR  
VNQTLRILVVSRLNMRSEGCFLGLKSVQDNPASALELLDFSDIQVNAEFDGLASSVRGIL  
PELCIKTGACRVEYKKELLPVFRSALPASVPK

>sp|Q86YD5|LRAD3\_HUMAN Low-density lipoprotein receptor class A domain-containing protein  
3 OS=Homo sapiens GN=LDLRAD3 PE=2 SV=3

MWLLGPLCLLLSSAAESQLLPGNNFTNECNIPGNFMCSNGRCIPGAWQCDGLPDCFDKSD  
EKECPKAKSKCGPTFFPCASGIIHCIIGRFRCNGFEDCPDGSDEENCTANPLLCSTARYHC  
KNGLCIDKSFICDGGNQCNDSEESSQEPGSGQVFVTSENQLVYPSITYAIIIGSS  
VIFVLVALLALVLHHQKRNNMLTLPVHRLQHPVLLSRLVVLDPHHCNVTYNVNNGIQ  
YVASQAEQNASEVGSPPSYSEALLDQRPAYWDLPPPPYSSDTESLNQADLPYRSRSGSA  
NSASSQAASSLLSVEDTSHSPGQPGPQEGTAEPRDSEPSQGTEEV

>sp|Q8N456|LRC18\_HUMAN Leucine-rich repeat-containing protein 18 OS=Homo sapiens  
GN=LRRC18 PE=2 SV=2

MVKGEGKPGKKITLKVARNCIKITFDGKKRLDLKMGITTFPKCILRLSDMDELDSLRL  
LIRKIPDISKFKQLRWLDLHSNYIDKLPEISGQMTSLLYLVNSNNRLTSNGLPVELKQL  
KNIRAVNLGLNHLDSVPTTLGALKELHEVGLHDNLLNNIPVSISKLPKLKLNKRNPF  
KPGESEIFIDSIRLENLYVVEEKDLCAACLRKCQNARDNLNRIKNMATTTPRKTIFPNL  
ISPNSMAKDSWEDWRIRLTSS

>sp|Q53EV4|LRC23\_HUMAN Leucine-rich repeat-containing protein 23 OS=Homo sapiens  
GN=LRRC23 PE=2 SV=2

MSDEDDLEDSEPDQDDSEKEEDEKETEEGEDYRKEGEEFPEEWLPTPLTEDMMKEGLSLL  
CKTGNGLAHAYVKLEVKERDLTDIYLLRSYIHLRYVDISENHLTDLSPNLTHLLWLKA  
DGNRLRSAQMNELPYLQIASFAYNQITDTEGISHPRLETNLKGNSIHMVTGLDPEKLIS  
LHTVELRGNQLESTLGINLPKLNLYLAQNMLKKVEGLEDLNLTTLHLRDNQIDTSLGF  
SREMKSLLQYLNLRGNMVANLGLAKLRDLPLKRALVLLDNPCTDETSYRQALVQMPYLE  
RLDKEFYEEEEERAEADVIRQLKEEKEQEPEPQRDLEPEQSLI

>sp|Q2IOM4|LRC26\_HUMAN Leucine-rich repeat-containing protein 26 OS=Homo sapiens  
GN=LRRC26 PE=1 SV=2

MRGPSWSRPRLLLLLLLLSPWPVWAQVSATASPSGSLGAPDCPEVCTCVPGGLASCSAL  
SLPAVPPGLSLRLRALLDHNVRALPPGAFAGAGALQRLDLRENGLHSHVRAFWGLGA  
LQLDLNLANQLEALAPGTFAPLRALNLSLGNRLARLEPAALGALPLRLSLQDNELA  
ALAPGLLGRPLDALHLRGNPWGCGCALRPLCAWLRRHPLPASEAETVLCVWPGRLTSL  
PLTAFSDAAFSHCAQPLALRDLAVVYTLGPASFLVSLASCLALGSLTACRARRRRRLTA  
ALRPPRPDPNPDPPHGCASPADPGSPAAAAQA

>sp|Q6UYO1|LRC31\_HUMAN Leucine-rich repeat-containing protein 31 OS=Homo sapiens  
GN=LRRC31 PE=2 SV=1

MSQTRKKTSSGETKPQTSTVNKFLRGSNAESRKEDNDLKTSDSQPSDWIQTATSETAK

PLSSEMEWRSSMEKNEHFLQKLGKKA VNKCLDLNNCGLTTADMKEMVALLPFLPDLEELD  
ISWNGFVGGTLLSITQQMHLVSKLKILRLGSCRLTTDDVQALGEAFEMIPELEELNLSWN  
SKVGGNLPILILQKFQKSKIQMIELVDCSLTSEDGTFLGQLPMLQSLEVLDSLNRDIV  
GSLNSIAQGLKSTSNLKVLLHSCGLSQKSVKILDAAFRLGELRKLDLSCNKDLGGGFE  
DSPAQVLMLKHLQVLDLHQCSLTADDVMSLTQVIPLLSNLQELDSLANKKMGSSSENLLS  
RLRFLPALKSLVINNCALESETFTALAEASVHLSALEVFNL SWNKC VGGNLKLLLET LKL  
SMSLQVLRSSCSLVTEDVALLASVIQTGHLAKLQKLDLSYND SICDAGWTFQCQNV RFL  
KELIELDISLRPSNFRDCGQWFRHLLYAVTKLPQITEIGMKRWILPASQEEEECFDQDK  
KRSIHFDHGGFQ

>sp|Q14392|LRC32\_HUMAN Leucine-rich repeat-containing protein 32 OS=Homo sapiens  
GN=LRR32 PE=1 SV=1

MRPQILLLLALLTLGLAAQHQDKVPCKMVDKKVSCQVLGLLQVPSVLPD TETDL SGNQ  
LRSILASPLGFYTALRHLDLSTNEISFLQPGAFQALHLEHLSLAHNRLAMATASAGGL  
GPLPRVTSLDLSGNSLYSGLLERLLGEAPSLHTLSLAENSLTRLTRHTFRDMPALEQLDL  
HSNVLMDIEDGAFEGLPRLTHLNLSRNSLTCISDFSLQQLRVLDLSCNSIEAFQTASQPQ  
AEFQLTWLDLRENKLLHFPDLAALPRLIYLNLSNNLIRLPTGPPQDSKGIHAPSEGWSAL  
PLSAPSGNASGRPLSQLLNLDLSYNEIELIPDSFLEHLTSLCFLNLSRNCLRTFEARRLG  
SLPCLMLLDLSHNALETLELGARALGSLRTLTLQGNALRDLPPYTFANLASLQRLNLQGN  
RVSPCGGPDEPGPSGCVAFSGITSLRSLSLVDNEIELLRAGAFHTPLTELDLSSNPGL  
VATGALGGLEASLEV LALQGNGLMVLDLPCFICLKRLNLAENRLSHLPAWTQAVSLEV  
LDLRNNSFSLPGSAMGGLETSLRRLYLQGNPLSCCGNWLAAQLHQGRVDV DATQDLIC  
RFSSQEEVSLSHVRPEDCEKGLKNINLIIILTFILVSAILTTLAACCCVRRQKFNQY  
KA

>sp|Q8IZ02|LRC34\_HUMAN Leucine-rich repeat-containing protein 34 OS=Homo sapiens  
GN=LRR34 PE=2 SV=2

MGSSREAARAPARSPAWASTQASTPGAALAVQRESPESGLQKHYSNLCMEKSQKINPFIL  
HILQEVD E EIKKGLAAGITLNIAGNNRLVPVERTGEDFWILSKILKNCLYINGLDVGYN  
LLCDVGAYYAAKLQKQLNLIYLNLMFNDIGPEGGELIAKVLHKNRTLKYLRMTGNKIEN  
KGMFFAAMLQINSSLEKLDLGDCLDLEESTVHVGRMLKENHCLVALHMCKHDIKNSGIQQ  
LCDALYLNSSLRYLDVSCNKITHDGMVYLADVLKSNTTLEVIDLSFNRIENAGANYLSET  
LTSHNRS LKALS VVSNNIEGEGVALS QSMKTNLTFSHIYIWGNKFDEATCIAYS DLIQM  
GCLKPDNTDVEPFVVDGRVYLA EVS NGLKKHYWTSTYGESYDHSSNAGFALVPVGQQP

>sp|Q1X8D7|LRC36\_HUMAN Leucine-rich repeat-containing protein 36 OS=Homo sapiens  
GN=LRR36 PE=2 SV=2

MAEQWELDEEGIRRLGALTLEQPELVESLSLQGSYAGKIH SIGDAFRNFKNLRSLDLSRN  
LITSLKGIQYLCSLQDLNLYNNIPSLVEVSRLQPLPFLKELDLRLNPVVRKDTDYRLFA  
VYTLQTLEKLDDRTVREGERKAAKLHFSQLGENSEN F LLEVEKSSREKTMKNCVTGESSAS  
KVSANVDSRIEMDSNKGLFIPFPNREIKDSLSTSATQGN GTRDQKLDTFPLGTQTQEVAR  
REMPSDNHQEDEF RHYS PRQSTVRSPEKMTREGYQVSFLDNKSSGSSPEKELIPKPDTFH  
LTHDASLSKCLDVGDS S QIHYPQLPSDVGLENYDSCYSQTL SHGSLGKR PQRSKNYQEY  
SIKPSNDIKTTASHSCGDLTSLSNPDSSTGRLLKLSSDLYATTHFNSDPAVLVNVEQQ  
STSLDDLTPAHGSVPNNAVLGNRTTPLRTLTLSPGTSEHRKIFTKRSLSPSKRGFKWKDN  
ILANLNLKHGFQDATGSEPLSSDLGSLHGLAGNHSPPI SARTPHVATVLRQLLELVDKHW  
NGSGSLLL NKKFLGPARDLLSLVVPAPSQPRCCSHPEDTMKAFCRRELELKEAAQLVPN

DMESLKQKLVRVLEENLILSEKIQQLEEGAAISIVSGQQSHTYDDLHKNQQLTMQVACL  
NQELAQLKKLEKTVAILHESQRSLVVTNEYLLQQLNKEPKGYSGKALLPPEKGHHLGRSS  
PFGKSTLSSSSPVAHETGQYLIQSVLDAAPEPGL

>sp|Q8N7C0|LRC52\_HUMAN Leucine-rich repeat-containing protein 52 OS=Homo sapiens  
GN=LRR52 PE=1 SV=2

MSLASGPGPGWLLFSFGMLVSGSKCPNNCLCQAQEVICTGKQLTEYPLDIPLNTRRLFL  
NENRITSLPAMHLGLLSDLVYDCQNNRIREVM DYTFIGVFKLIYDLSSNNLTSISPFT  
FSVLSNLVQLNIANNPHLLSLHKFTFANTTSLRYDLRNTGLQTLDSAALYHLLTLETFL  
LSGNPWKCNCNFLDFAIFLIVFHMDPSDDL NATCVEPTEL TGWPITRVGNPLRYMCITHL  
DHKDYIFLLLIGFCIFAAGTVAAWLTGVCVLYQNTRHKSSEDEDEAGTRVEVSRRIFQ  
TQTSSVQEFPLI

>sp|Q8IYG6|LRC56\_HUMAN Leucine-rich repeat-containing protein 56 OS=Homo sapiens  
GN=LRR56 PE=2 SV=1

MDLGWDRSRGPRRSTSSVRVRELSWQGLHNPCPQSKGPGSQDRDLGEQLVEEYLSPARLQ  
ALARVDDLRLVRTLEMCVDTREGLSGNFGVHLPNLDQLKNGSHLGLRDLGTSLGHLQV  
LWLARCGLADLDGIASLPALKELYASNNISDLSPLCLLEQLVLDLEGN SVEDLGQVRY  
LQLCPRLAMLTLEGNLVCLQPAPGPTNKVPRGYNYRAEVRKLIPLQLQVLDEVPAHTGPP  
APPRLSQDWLAVKEAIKKGNLPLDCPRGAPIRRLDPELSLPETQSRASRPWPFSLVR  
GGPLPEGLLSEDLAPEDNTSSLTHGAGQVLCGNPTKGLRERRHQCQAREPPEQLPQHRPG  
DPAASTSTPEPDADSSDFLALAGLRAWREHGVRPLPYRHPESQQEGAVAPWGPRRVPEE  
QVHQAEPKTPSSPPSLASEPSGTSSQHLVSPPKHPRPRDSGSSPRWSTDLSRGRRLR  
VLGSWGPGLDGVAAPVLRALVASRLSPRAQGC PGKPAPDAAARPPRAAELSHPSPV  
PT

>sp|Q96AG4|LRC59\_HUMAN Leucine-rich repeat-containing protein 59 OS=Homo sapiens  
GN=LRR59 PE=1 SV=1

MTKAGSKGGNLRDKLDGNELDLSLSDLVNVPVKELAAALPKATILDLSCNKLTTLP SDFCG  
LTHLVKLDLSKNKLQQLPADFGRLVNLQHLDLLNNKLVTLPV SFAQLKNLKWLDLKDNP  
DPVLAKVAGDCLDEKQCKQCANVQLHMKAVQADQERERQRRLEVEREAEKKREKQRAK  
EAQERELRKREAEKERRRKEYDALKAAREQEKPKKEANQAPKSKSGSRPRKPPPRK  
HTRSWAVLKL LLLLLLFGVAGGLVACRVTELQQQLCTSVNTIYDNAVQGLRRHEILQWV  
LQTD SQQ

>sp|Q9BV99|LRC61\_HUMAN Leucine-rich repeat-containing protein 61 OS=Homo sapiens  
GN=LRR61 PE=2 SV=1

MDPPAEKPGEAGGLQITPQLLSRTGEFSLESILLKLRLGLADLGLGECLGLEWLDL  
SGNALTHLGPLASRLQLAVLNVSNNRLTGLEPLATCENLQSLNAAGNLLATPGQLQCLAG  
LPCLEYLRRLDPLARLSNPLCANPSYWA AVRELLPGLKVIDGERVIGRGSEFYQLCRDL  
SSLRPSSSPGPRATEAQPWVEPGYWESWPSRSSILEEACRQFQDTLQECWDLDRQASDS  
LAQAEQVLSSAGPTSSVF

>sp|Q5JTD7|LRC73\_HUMAN Leucine-rich repeat-containing protein 73 OS=Homo sapiens  
GN=LRR73 PE=2 SV=1

MLPSSIQISGEPLSGAEVRDICRGLRDNAVRLSLRGCRLCDRDFGRICRALAGATSLAQ  
LNLNLGVVSSPSRIQLAEALRTNRSIQSLFLHGSPLTDAGLALLNPALALHPALVALDL  
GDCMLGDEAINLICGLLPDGA KSGLKELT SANPGITPKGWSRLAIAVAHSSQVRVNL  
DYNPLGDHVAGMLAVAVASSRTLEVLDLEGTGLTNQSAQTLLDMVENYPTALRSLVLAEN



SISPELQQQICDLLSEGESEEEVAGGAGDTQEWERGEPAAHQRGSSSWMCPSPDPSSQMV  
LMTSGLGDSLLAETEM

>sp|Q9C099|LRCC1\_HUMAN Leucine-rich repeat and coiled-coil domain-containing protein 1  
OS=Homo sapiens GN=LRRCC1 PE=1 SV=2

MEAAAAVVAEEAEVENEDGDSSCGDVCFMDKGLQSISELSLDSTLHAVNLHCNNISKIEA  
IDHIWNLQHLDLSSNQISRIEGLNTLTKLCTLNLSCNLITKVEGLEELINLTRLNVSYNH  
IDDLISGLIPLHGIIKHLRYIDLHSNRIDSIHLLQCMVGLHFLTNLILEKDGDNDPVCRL  
PGYRAVILQTLPLRLDCKNIFGEPVNLTEINSSQLQCLEGLLDNLVSSDSPLNISEDE  
IIDRMPVITAPIDELVPLEQFASTPSDAVLTSFMSVCQSSEPEKNNHENDLQNEIKLQKL  
DDQILQLLNETSNSIDNVLEKDPKPRKRTDITSESDYGNRKECNKVPRRSKIPYDAKTI  
QTIKHHNKNYNSFVSCNRKMKPPYLKELYVSSSLANCPMLQESEKPKTEIIKVDQSHSED  
NTYQSLVEQLDQEREKRWAEQAENKLMYIDELHKKHANEKEDIHSLALLTTDRLKEIIF  
RERNKGGQLEVMVHKLQNEIKKLTVELMKAKDQEDHLKHLRTLEKTEKMERQKRQQQA  
AQIRLIQEVELKASAADREIYLLRTSLHREREQAQLHQLLALKEQHRKELETREFFTD  
ADFQDALAKEIAKEEKKHEQMIKEYQEKIDVLSQQYMDLENEFRIALTVEARRFQDVKDG  
FENVATELAKSKHALIWAQRKENESSLIKDLTCMVKEQKTKLAEVSKLKQETAANLQNQ  
INTLEILIEDDKQKSIQIELLKHEKVQLISELAAKESLIFGLRTERKVWGHELAQQGSSL  
AQNRGKLEAQIESLSRENECLRTNESDSALRIKCKIIDDQTETIRKLDCLQEKDEHI  
KRLQEKITEIEKCTQEQLDEKSSQLDEVLEKLERHNERKEKLKQQLKGKEVELEEIRKAY  
STLNRKWHDKGELLCHLETQVKEVKEKFENKEKKLKAERDKSIELQKNAMEKLHSMDDAF  
KRQVDAIVEAHQAEIAQLANEKQKCIDSANLKVHQIEKEMRELLEETCKNKKTMCAKIKQ  
LAFALNEIQQDM

>sp|Q96II8|LRCH3\_HUMAN Leucine-rich repeat and calponin homology domain-containing  
protein 3 OS=Homo sapiens GN=LRCH3 PE=1 SV=2

MAAAGLVAVAAAAEYSGTVASGGNLPGVHCGPSSGAGPGFPGSWSRSLDRALEEAATG  
VLSLSGRKLREFPRGAANHDLTDTTRADLSRNRLSEIPIEACHFVSLNENLYQNCIRYI  
PEAILNLQALTFLNISRNQLSTLPVHLCNLPLKVLIASNNKLVSLPEEIGHLRHLMELDV  
SCNEIQTIPSQIGNLEALRDLNVRNHLVHLPEELAEPLIRLDFSCNKITTIPVCYRNL  
RHLQTITLDNNPLQSPPAQICIKGVHIFKYLNIQACKIAPDLDPYDRRPLGFGSCHEEL  
YSSRPYGALDSGFNSVDSGDKRWSGNEPTDEFSDLPLRVAEITKEQRLRRESQYQENRGS  
LVVTNGGVEHDLQIDYIDSCTAESEAEVRQPKGPDPSLSSQFMAYIEQRRISHEGSP  
VKPVAIREFQKTEDMRRYLHQNRVPAEPSSLLSLASHNQLSHTDLELHQRREQLVERTR  
REAQLAALQYEEKIRTKQIQRDAVLDFVKQKASQSPQKQHPLLDGVDGECFPFSRRSQH  
TDSALCMSLSGLNQVGAATLPHSSAFTPLKSDDRPNALLSSPATETVHHSPAYSFPAA  
IQRNQQRPEFSLFRAGVRAETNKGHASPLPPSAPTTDSITGQNSRQREELELID  
QLRKHIEYRLKVSLPCDLGAALTDGVVLCHLANHVRPRSVPSIHVPSPAVPKLTMAKCR  
NVENFLEACRKIGVPQEQLCLPLHILEEKGLSQVAVTVQALLELAPPKQQQHQLSAV

>sp|Q9BTN0|LRFN3\_HUMAN Leucine-rich repeat and fibronectin type-III domain-containing  
protein 3 OS=Homo sapiens GN=LRFN3 PE=2 SV=1

MAILPLLLCLPLAPASSPPQSATPSPCPRRCRCQTQSLPLSVLCPGAGLLFVPPSLDRR  
AAELRLADNFIAVRRRDLANMTGLLHLSLRNTIRHVAAGAFADLRALRALHLDGNRLT  
SLGEGQLRGLVNLRLHILSNNQLAALAAGALDDCAETLEDLDLSYNNLEQLPWEALGRLG  
NVNTLGLDHNLLASVPAGAFSRLHKLARLDMTSNRLTTIPDPPLFSRLPLLARPRGSPAS  
ALVLAFFGGNPLHCNCELVWLRLAREDDLEACASPPALGGRYFWAVGEEEFVCEPPVVT

RSPLAVPAGRPAALRCRAVGDEPRVRWVSPQGRLLGNSSRARAFNGTLELLVTEPGD  
GGIFTCIAANAAGEATAAVELTVGPPPPQLANSTSCDPPRDGDPDALTPPSAASASAKV  
ADTGPPTRDRGVQVTEHGATAALVQWPDQRP IPGIRMYQIQYNSSADDILVYRMIPAESRS  
FLLTDLASGRTYDLCVLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMI  
IALGGVIVASVLVFI FVLLMRYKVHGGQPPGKAKIPAPVSSVCSQTNGALGPTPTPAPPA  
PEPAALRAHTVVQLDCEPWGPGHEPVGP

>sp|Q6PJG9|LRFN4\_HUMAN Leucine-rich repeat and fibronectin type-III domain-containing  
protein 4 OS=Homo sapiens GN=LRFN4 PE=1 SV=1

MAPLLLLLLASGAAACPLPCVCQNLSESLTLCAHRGLLFVPPNVDRRTVELRLADNFI  
QALGPPDFRNMGTGLVDLTLSRNAITRIGARAFGDLESRLSHLDGNRLVELGTGSLRGPV  
NLQHLILSGNQLGRIAPGAFDDFLESLEDLDSYNNLRQVPWAGIGAMPALHTLNLDHNL  
IDALPPGAFAQLGQLSRLDLTSNRLATLAPDPLFSRGRDAEASPAPLVLSFSGNPLHCNC  
ELLWLRRLARPDDLETCASPPGLAGRYFWAVPEGEFSCEPPLIARHTQRLWVLEGQRATL  
RCRALGDPAPTMMHWGPDDRLVGNSRRARAFNGTLEIGVTGAGDAGGYTCIATNPAGEA  
TARVELRVLALPHGGNSSAEGGRPGPSDIAASARTAAEGEGTLESEPAVQVTEVTATSGL  
VSWGPRPADPVWMFQIQYNSSDETLYIRIVPASSHHFLKHLVPGADYDLCLLALSPA  
AGPSDLTATRLLGCAHFSTLPASPLCHALQAHVLGGTLTVAVGGVLVAALLVFTVALLVR  
GRGAGNGRLPLKLSHVQSQTNGGPSPTPKAHPPRSPPPRPQRSCSLDLGDAGCYGYARRL  
GGAWARRSHSVHGGLLGAGCRGVGGSARLEESVV

>sp|Q96NI6|LRFN5\_HUMAN Leucine-rich repeat and fibronectin type-III domain-containing  
protein 5 OS=Homo sapiens GN=LRFN5 PE=1 SV=2

MEKILFYFLIGIAVKAQICPKRCVCQILSPNLATLCAKKGLLFVPPNIDRRTVELRLAD  
NFVTNIKRKDFANMTSLVDLTLNRNTISFITPHAFADLRNLRALHLNSNRLTKITNDMFS  
GLSNLHHLILNNQLTLISSTAFDDVFALEELDLSYNNLETIPWDAVEKMVSLHTLSLDH  
NMIDNIPKGTFSHLHKMTRLDVTSNKLQKLPPDPLFQRAQVLATSGIISPSTFALSFGGN  
PLHCNCELLWLRRLSREDDLETCASPPLLTGRYFWSIPEEEFLCEPPLITRHTHEMRVLE  
GQRATLRCKARGDPEPAIHWISPEGKLISNATRSVLDNGTLDILITTVKDTGAFTCIAS  
NPAGEATQIVDLHI IKLPHLLNSTNHIHEPDGSSDISTSTKSGSNTSSSNGDTKLSQDK  
IVVAEATSSALLKFNQFNIPGIRMFQIQYNGTYDDTLVYRMIPPTSKTFLVNNLAAGT  
MYDLCVLAIIYDDGITSLATRVVGC IQFTTEQDYVRCHF MQSQFLGGTMI I IGGIIVAS  
VLVFI IILMIRYKVCNNNGQHVKTVSNVYSQTNGAQIQGCSVTLPQSVSKQAVGHEENA  
QCKATSDNVIQSSETCSSQDSTTTLSALPPSWTSSTSVSQKQKRKTGTPSTEPQNEAV  
TNVESQNTNRNNSTALQLASRPDSVTEGPTSKRAHIKPNALLTNVDQIVQETQRLELI

>sp|Q14767|LTBP2\_HUMAN Latent-transforming growth factor beta-binding protein 2 OS=Homo  
sapiens GN=LTBP2 PE=1 SV=3

MRPRTKARSPGRALRNPWRGFLPLTLALFVGAGHAQRDPVGRYEPAGGDANLRRPGGSY  
PAAAAAKVYSLFREQDAPVAGLQPVERAQPGWGSPRRPTEAEARRPSRAQQSRRVQPPAQ  
TRRSTPLGQQQPAPRTRAAPALPRLGTPQRSGAAPPTPPRGRLTGRNVC GGQCCPGWTTA  
NSTNHCIKPVCEPPCQNRGSCSRPQLCVCRS GFRGARCEEVIPDEEFD PQNSRLAPRRWA  
ERSPNLRRSSAAGEGLARAQPPAPQSPAPQSPAGTSLGSLQTHPSQQHVGLSRTVRL  
HPTATASSQLSSNALPPGPGLEQRDGTQQAVPLEHPSSPWGLNLTEIKKIKIVFTPTIC  
KQTCARGHCANSCERDTTTTLSYQGGHGHDPKSGFRIYFCQIPCLNGGRCIGRDECWCPA  
NSTGKFCHLPI PQPDREPPGRGSRPRALLEAPLKQSTFTLPLSNQLASVNPSLVKVHIHH  
PPEASVQIHQVAQVRGGVEEALVENSVETRPPPWL PASPGHSLWDSNNIPARSGEPPRPL

PPAAPRPRGLLGRCYLNTVNGQCANLLELTQEDCCGSVGAFWGVTLCAPCPPRPASPV  
IENGQLECPQGYKRLNLTHCQDINECLTLGLCKDAECVNTRGSYLCTCRPGLMLDPSRSR  
CVSDKAISMLQGLCYRSLPGTCTLPLAQRITKQICCCSRVGKAWGSECEKCPLPGTEAF  
REICPAGHGYTYASSDIRLSMRKAEEEELARPPREQQQRSSGALPGAERQPLRVVTDTW  
LEAGTIPDKGDSQAGQVTTSVTHAPAWVTGNATTPMPEQGAIEIQEEQVTPSTDVLVTL  
STPGIDRCAAGATNVCNPGTGVNLPDGYRCVCSPGYQLHPSQAYCTDDNECLRDPCCKGK  
RCINRVGSYSFCYPGYTLATSGATQECQDINECEQPGVCSGGQCTNTEGSYHCECDQGY  
IMVRKGHCQDINECRHPGTCPDGRVCNSPGSYTCLACEGYRGQSGSCVDVNECLTPGVC  
AHGKCTNLEGSFRCSCEQGYEVTSDEKGCQDVDECASRASCPTGLCLNTEGSFACSACEN  
GYWVNEDGTACEDLDECAFPVCPSPGVCTNTAGSFCKDCDGGYRPSPLGDSCEDVDECE  
DPQSSCLGGECKNTVGSYQCLCPQGFQLANGTVCEDVNECMGEEHCAPHGECLNSHGSFF  
CLCAPGFVSAEGGTSCQDVDECATDPCVGGHCVNTEGSFNCLCETGFQPSPESEGCVDI  
DECEDYGPVCGTWKCENSPGSYRCVLGCQPGFHMAPNGDCIDIDECANDTMCOSHGFCD  
NTDGSFRCLCDQGFELSPSGWDCVDVNECELMMLAVCGAALCENVEGSFLCLCASDLEEYD  
AQEGHCRPRGAGGQSMSEAPTGDHAPAPTRMDCYSGQKGHAPCSSVLGRNTTQAECCCTQ  
GASWGDACDLCPSEDSAEFSEICPSGKGYIPVEGAWTFGQTMYTDADECVIFGPGLCPNG  
RCLNTVPGYVCLCNPGFHYDASHKKCEDHDECQDLACENGECVNTEGSFHCFCSPPLTLD  
LSQQRCMNSTSTEDLPDHDHMDICWKKVTNDVCSEPLRGHRTTYTECCCQDGEAWSQQ  
CALCPPRSSEVYAQLCNVARIEAEREAGVHFRPGYEGPGPDDLHYSIYGPDGAPFYNYL  
GPEDTVPEPAFPNTAGHSADRTPILESPLQPSSELQPHYVASHPEPPAGFEGQLAECEGIL  
NGCENGRCVRVREGYTCDCEFGFQLDAAHMACVDVNECDDLNGPAVLCVHGYCENTEGSY  
RCHCSPGYVAEAGPPHCTAKE

>sp|Q16873|LTC4S\_HUMAN Leukotriene C4 synthase OS=Homo sapiens GN=LTC4S PE=1 SV=1

MKDEVALLAAVTLGVLQAYFSLQVISARRAFRVSPPLTTGPPEFERVYRAQVNCSEYF  
PLFLATLWVAGIFFHEGAAALCGLVYLFARLRYFQGYARSAQLRLAPLYASARALWLLVA  
LAALGLLAHFLPAALRAALLGRLRTLTPWA

>sp|O43504|LATOR5\_HUMAN Regulator complex protein LAMTOR5 OS=Homo sapiens GN=LAMTOR5 PE=1  
SV=1

MEATLEQHLEDTMKNPSIVGLCTDSQGLNLGCRGTLSDHAGVISVLAQQAALTSPT  
DIPVVCLESDNGNIMI QKHDGITVAVHKMAS

>sp|A8MSI8|LYRM9\_HUMAN LYR motif-containing protein 9 OS=Homo sapiens GN=LYRM9 PE=3 SV=2

MAPLPGAELVRRPLQLYRYLLRCCQQLPTKGIQHYKHAVRQSFRVHSDENPERIQQII  
KRAIEDADWIMNKYKKQN

>sp|Q5XG99|LYSM4\_HUMAN LysM and putative peptidoglycan-binding domain-containing protein  
4 OS=Homo sapiens GN=LYSMD4 PE=2 SV=2

MRHEELTKTFQGPVAVCGTPTSHVYMFKNKSGDSGDSSEESHVLRPRGKERHKS  
GVHQPPQAGAGDVVLLQRELAQEDSLNKLALQYCKVADIKKVNNFIREQDLYALKSVKIPV  
RNHGILMETHKELKPLLSPSSETTVTVLPEADRAGAGTGAQAGQLMGFFKGIDQDIERA  
VQSEIFLHESYCMDTSHQPLLPAPPKTPMDGADCGIQWNAVFIMLLIGIVLPVFYLVYF  
KIQASGETPNSLNTTVIPNGSMAMGTVPQGAPRLAVAVPAVTSADSQFSQTTQAGS

>sp|Q99558|M3K14\_HUMAN Mitogen-activated protein kinase kinase kinase 14 OS=Homo sapiens  
GN=MAP3K14 PE=1 SV=2

MAVMEMACPGAPGSAVGQQKELPKAKEKTPPLGKKQSSVYKLEAVEKSPVFCGKWEILND  
VITKGTAKGSEAGPAAISIIAQAECECNSQEFSPFTSERIFIAGSKQYSQSESLDQIPNN

VAHATEGKMARVCWKGRRSKARKKRKKSSKSLAHAGVALAKPLPRTPEQESCTIPVQE  
DESPLGAPYVRNTPQFTKPLKEPGLGQLCFKQLGEGLRPALPRSELHKLISPLQCLNHVW  
KLHHPQDGGPLPLPTHFPFYSRLPHFPFHLPLQPWKPHPLESFLGKLACVDSQKPLPDPH  
LSKLACVDSKPLPGPHLEPSCLSRGAHEKFSVEEYLVALQGSVSSGQAHSLSLAKTW  
AARGSRSPKPTEDNEGVLLTEKLPVDYEEYREEVHWATHQLRLGRGSFGEVHRMEDK  
QTGFQCAVKKVRLEVFRAEELMACAGLTSPRIVPLYGAVREGPWVNIFMELLEGGSLGQL  
VKEQGCLPEDRALYYLGQALEGLEYLHSRRLHGDVKADNVLLSSDGSAAALCDFGHAVC  
LQPDGLGKSLLTGDYIPGTETHMAPEVVLGRSCDAKVDVWSSCCMMLHMLNGCHPWTQFF  
RGPLCLKIASEPPPVREIPPSCAPLTAQAIQEGLRKEPIHRVSAAELGGKVNRLQQVGG  
LKSPWRGEYKEPRHPPPNQANYHQTLLHAQPRELSPRAPGPRPAEETTGRAPKLQPLPPE  
PPEPNKSPPLTSLKEESGMWEPLPLSSLEPAPARNPSSPERKATVPEQELQQLEIELFLN  
SLSQPFSLLEEQELSLCLSIDSLSDSDDSEKNPSKASQSSRDTLSSGVHSWSSQAEARSS  
SWNMVLARGRPTDTPSYFNGVKVQIQSLNGEHLHIREFHRVKVGDIAATGISSQIPAAAFS  
LVTKDGGPVRYDMEVPDSDGLQCTLAPDGSFAWSWRVKHGQLENRP

>sp|A6NCF6|MA13P\_HUMAN Putative MAGE domain-containing protein MAGEA13P OS=Homo sapiens  
GN=MAGEA13P PE=5 SV=1

MPHSQKSRHCELEQLQAPKEAQLGVGVQVAEAEKVNTTASSSPSTLIQGTLEKVSASGT  
PGTPQSSQRCVSPCTTIKATPWNQSDSSRSQEKKDPGASQALMLEKKVDELVKFLSVKY  
TTKQPITEAEMLGKVIKEHKDHFPPIFMQAHECMEIVFGTDMKEVDPIHSCVLLKSLDL  
TYDRRLSDDQGMPKTGILLTFGVILMEANCASEEKIWEVLNIIIRVYAGWKDFIYGEPRK  
LITRDLVQEKYLECCQVNSNDPPRYKFPWGPRAHAETTKMKVLEFFSRVSGSDASSFPLL  
YEEALRDEKEKAQAIATMGGTTLMASAHWAKSSSFSCPE

>sp|Q9NTJ4|MA2C1\_HUMAN Alpha-mannosidase 2C1 OS=Homo sapiens GN=MAN2C1 PE=1 SV=1

MAAAPALKHWRTTLERVEKFVSPLYFTDCNLRGRLFGASCPVAVLSSFLTPERLPYQEA  
QRDFRPAQVGDSFGPTWTCWFRVELTPEAWVGQEVHLCWESDGGLVWRDGEVPVQGLT  
KEGEKTSYVLTDRLGERDPRSLTLYVEVACNGLLGAGKGSMAAPDPEKMFQLSRAELAV  
FHRDVHMLLVDELLELGIAGLGKDNQRSFQALYTANQMVNVCDPAQPETFPVAQALASR  
FFGQHGGESQHTIHATGHCHIDTAWLPFKETVRKCARSWVTALQLMERNPEFIFACSQA  
QQLEWVKSRYPGLYSRIQEAFACRGQFVPVGGTWVEMDGNLPSGEAMVRQFLQGQNFLLQE  
FGKMCSEFWLPDTFGYSAQLPQIMHCGGIRRFLTQKLSWNLVNSFPHTFFWEGLDGSRV  
LVHFPPGDSYGMQGSVEEVLTQVANNRDKGRANHS AFLFGFGDGGGGPTQTMLDRLKRLS  
NTDGLPRVQLSSPRQLFSALESDSEQLTWVGELFLELHNGTYTTTHAQIKKGNRECERIL  
HDVELLSSALARSQFLYPAAQLQHLWRLLLLNQFHDVVTGSCIQMVAAEAMCHYEDIR  
SHGNTLLSAAAAALCAGEPGPEGLLIVNTLPWKRIEVMALPKPGGAHSLALVTVP SMGYA  
PVPPPTSLQPLLQPVFVVQETDGSVTLNNGIIRVKLDPTGRLTSLVLVASGREATAEG  
AVGNQFVLFDDVPLYWDAWDVMDYHLETRKPVLGQAGTLAVGTEGGLRGS AWFLQISPN  
SRLSQEVVLVDGCPYVRFHTEVHWHEAHKFLKVEFPARVRSSQATYEQFGHLQRPHTYN  
TSWDWARFEVWAHRWMDLSEHGFLALLNDCKYGASVRGSI LSLSLLRAPKAPDATADTG  
RHEFTYALMPHKGSFQDAGVIQAAAYSLNFPLLALPAPSPAPATSWSAFVSVPVAVLET  
KQAESSPQRRSLVLRLEYAHGSHVDCWLHLSLPVQEA ILCDLLERPDPAGHLTLRDNRLK  
LTFSPFQVLSLLLVLQPPPH

>sp|Q9H9H5|MA6D1\_HUMAN MAP6 domain-containing protein 1 OS=Homo sapiens GN=MAP6D1 PE=1  
SV=1

MAWPCISRLCCLARRWNQLDRSDVAVPLTLHGYSDDLSEEPGTGGAASRRGQPPAGARDS

GRDVPLTQYQRDFGLWTTAGPKDPPPGRGPGAGGRRGKSSAQSSAPPAPGARGVYVLP  
GDADAAAATTSYRQEFQAWTGVKPSRSTKTKPARVITHTSGWDSSPGAGFQVPEVRKK  
FTPNPSAIFQASAPRILNV

>sp|Q3KQU3|MA7D1\_HUMAN MAP7 domain-containing protein 1 OS=Homo sapiens GN=MAP7D1 PE=1 SV=1

MESGPRAELGAGAPPAVVARTPPEPRPSPEGDPSPPPPPMSALVPDTPDTPPAMKNATS  
SKQLPLEPESPSGQVGRPAPPQEESPSSEAKSRGPTPPAMGPRDARPPRRSSQPSPTAV  
PASDSPPTKQEVKKAGERHKLAKERREERAKYLAACKAVWLEKEEKAKALREKQLQERRR  
RLEEQLKAEQRRAALEERQRQKLEKNKERYEAAIQRSVKKTWAEIRQQRWSWAGALHHS  
SPGHKTSGRCSVSAVNLPKHVDSIINKRLSKSSATLWNSPSRNRSLQLSAWESSIVDRL  
MTPTLSFLARSRAVTLPRNGRDQGRGCDPGRGPTWGRAGASLARGPQPDRTHPSAAPV  
CPRSASASPLTPCSVTRSVHRCAPAGERGERRKPNAGGSPAPVRRRPEASPVQKKEKKDK  
ERENEKEKSALARERSLKKRQSLPASPRARLSASTASELSPKSKARPSSPSTSWHRPAS  
CPSPGPGHTLPPKPPSPRGTTASPKGRVRRKEEAKESPSAAGPEDKSQSKRRASNEKESA  
APASPAPSPAPTAPPQKEQPPAETPTDAAVLTSPAPAPPVTPSKPMAGTTDREEAT  
RLLAEKRRQAREQREEREEQERRLQAERDKRMREEQLAREAEARAEREAEARRREEQEARE  
KAQAEQEEQERLQKQKEEAARSREEAERQRLEREKHFQQEQERQERRKRLEEIMKRTR  
KSEVSETKQKQDSKEANANGSSPEPVKAVEARSPGLQKEAVQKEEPIPQEPQWSLPSKEL  
PASLVNGLQPLPAHQENGFTNGPSGDKSLSRTPETLLPFAEAEAFLLKAVVQSPQVTEV  
L

>sp|Q43708|MAAI\_HUMAN Maleylacetoacetate isomerase OS=Homo sapiens GN=GSTZ1 PE=1 SV=3

MQAGKPILYSYFRSSCSWRVRIALALKGIDYKTVPINLIKDRGQQFSKDFQALNPMKQVP  
TLKIDGITIHQSLAIEYLEEMRPTPRLLPQDPKKRASVRMISDLIAGGIQPLQNLVSLK  
QVGEEMLTWAQNAITCGFNALEQILQSTAGIYCVGDEVTMADLCLVPQVANAERFKVDL  
TPYPTISSINKRLLVLEAFQVSHPCRQPDTPTELRA

>sp|Q9BQ69|MACD1\_HUMAN O-acetyl-ADP-ribose deacetylase MACROD1 OS=Homo sapiens GN=MACROD1 PE=1 SV=2

MSLQSRLSGRLAQLRAAGQLLVPPRPRPGHLAGATRTRSSTCGPPAFLGVFGRRARTSAG  
VGAWGAAAVGRTAGVRTWAPLAMAAKVDLSTSTDWKEAKSFLKGLSDKQREEHYFCKDFV  
RLKKIPTWKEMAKGVAVKVEEPRYKKDKQLNEKISLLRSDITKLEVDAIVNAANSSLLGG  
GGVDGCIHRAAGPLLTDERTLQSCKTGKAKITGGYRLPAKYVIHTVGPIAYGEPSASQA  
AELRSCYLSSDLLEHRLRSVAFPCISTGVFGYPCEAAAEIVLATLREWLEQHKDKVDR  
LIICVFLEKDEDIYRSRLPHYFPVA

>sp|Q9P2G4|MAP10\_HUMAN Microtubule-associated protein 10 OS=Homo sapiens GN=MAP10 PE=1 SV=2

MAASLSERLFSLELLVDWVRLEARLLPSPAAAVEQEEEEEEKEQGEASSPRGLCPAVAFR  
LLDFPTLLVYPPDGPAPAAEPWPGVIRFGRGKSCFLRLQPATLHCRLLRTPLATLLLQL  
PPGRPTPTPQLLGACDISLATAAHRVVGPAASGCSHRHRGRFPLHNRVGERTGDIALAYR  
LTDLGSRLLSQLERPLTFTRTGGGAEVSPQTQQRQQLQPASQSPKEADKPLGELEIP  
EAQKDLKEMVKSACECDNVGSGVENGTNSVVTCSGAGNGRNVSSLNEEVTELDMETNIFC  
PPPLYTYNLTQEKPAPAQAKITIEPQMNAPEEMDDASPEKKRVNPPAHRSLKHPSSAAH  
EHPPMLVNPPHIQINIGATNQTCTEQNRINTIRQLPLLNALLVELSLLYDQPVTPAHIH  
PHLAWLYRTEDKKSPESSAKSTCRSEAKKDKRSVGGCEKSVSLQYKKNQIENYKEDKYSE  
KSSGALHKRVKGRLLYGLTNTLRLRLKLTNPDMLVVHEKRELYRKRQSQMLGTKFRIPS

SKVKLLSSAEQSQPKQLPEDKYLSDASFTENS DTSRQISGVFDEPSTSKETKLKYATEK  
KTVDCSKNRINNVSLEEVVSPANSIIIPERLTPTNILGGNVEMKIQSPCVFQQDAVVDRIV  
DKEIDIRQVKTTDNDILMADISDKRTGKNSCYENISELKYSDDLSSPCYSEDFCTSEDTS  
RSFKAHDS SRTENPKHSQYTSKSSDTGVSKKKNSSDRSSILSPPFSAGSPVHSYRK FHI  
SKTQDKSLEEASSISASDLSS THWTEQKENQIDQNSMHNSEITKRAQDISVKTRSSWKS L  
EKSQSPQTSQVSSYLPSNVSELNVLDSSTSDHFEEGNDDVGSLNISKQCKDICELVINKL  
PGYTM

>sp|P53582|MAP11\_HUMAN Methionine aminopeptidase 1 OS=Homo sapiens GN=METAP1 PE=1 SV=2

MAAVETRV CETDGCSS EAKLCPTCIKLG IQGSYFCSQECFKG SWATHKLLHKKAKDEKA  
KREVSSWTV EGDINTDPWAGYRYTGKLRPHYPLMPTRPVPSYIQRPDYADHPLG MSESEQ  
ALKGTSQIKLLSSE DIEGMRLVCLAREVLDAAGMIKPGVTTEEIDHAVHLACIARNCY  
PSPLNYYNFPKSCCTSVNEVICHGIPDRRPLQEGDIVNVDITLYRNGYHGDLNETFFVGE  
VDDGARKLVQTTYECLMQAIDAVKPGVRYRELGNIIQKHAQANGFSVRSYCGHGIHKL F  
HTAPNVPHYAKNAVGVMKSGHVFTIEPMICEGGWQDET WPDGWTAVTRDGKRS AQFEHT  
LLVTD TGCEILTRRLDSARPHFMSQF

>sp|Q14244|MAP7\_HUMAN Ensconsin OS=Homo sapiens GN=MAP7 PE=1 SV=1

MAELGAGGDGHRGGDAVRSETAPDSYKVDKKNASSRPAS AISGQNNNHSGNKPDPPP V  
LRVDDRQLARERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEERR  
RAAVEEKRRQRLEEDKERHEAVVRRTMERSQKPKQKHNRWSWGGSLHGSPSIHSADPDRR  
SVSTMNLSKYVDPVISKRLSSSATLLNSPDRARRLQLSPWESSVNRLLTPTHSFLARS  
KSTAALSGEAAASCSP IIMPYKAAHSRNSMDRPKLFVTPPEGSSRRRIIHGTASYKKERER  
ENVLFLTSGTRRAVSPSNPKARQPARSRLWLPSKSLPHLPGTPTSSLPPGSVKAAPAQ  
VRPPSPGNIRPVKREVKVEPEKKDPEKEPQKVANEPSLKGRAPLVKVEEATVEERTPAEP  
EVGPAAPAMAPAPASAPAPASAPAPVPTPAMVSAPSSTVNASASVKTSAGTTDPEEAT  
RLLAEKRRRLAREQREKEERERREQEELERQKREELAQRVAEERTTRREEESRRLEAEQAR  
EKEEQ LQRQAERALREEEAERAQRQKEEEARVREEAERVQEREKHFQREEQERLERK  
KRLEEIMKRTRRTEATDKKTS DQRNGDIAKGALTGGTEVSALPCTTNAPGNGKPVGSPHV  
VTSHQSKVTVESTPDLEKQPNENGVSQENEFEEIINLP IGSKPSRLDVTNSESPEIPLN  
PILAFDDEGTLGPLPQVDGVQTQQTAEVI

>sp|O00339|MATN2\_HUMAN Matrilin-2 OS=Homo sapiens GN=MATN2 PE=1 SV=4

MEKMLAGCFLLILGQIVLLPAEARERSRGRSISRGRHARTHPTALLESSCENKRADLVF  
IIDSSRSVNTHDYAKVKEFIVDILQFLDIGPDVTRVGLLQYGSTVKNEFS LKTFKRKSEV  
ERAVKMRHLSTGTMTGLAIQYALNIAFSEAEGARPLRENVPRVIMIVTDGRPQDSVAEV  
AAKARDTGILIFAIGVGQVDFNTLKSIGSEPHEDHVFLVANFSQIETLTSV FQKKLCTAH  
MCSTLEHNCAHFCINIPGSYVCRCKQGYILNSDQTTCRIQDLCAMEDHNCEQLCVNVP GS  
FVCQCYSGYALAE DGKRCVAVDYCASENHGCEHECVNADGSYLCQCHEGFALNPDKKTCT  
KIDYCASSNHGCQHECVNTDDSYSCHCLKGFTLNPDKKTCRRIN YCALNKPGEHECVNM  
EESYYCRCHRGYTLDPNGKTCSRVDHCAQQDHGCEQLCLNTEDSFVCQCSEGF LINEDLK  
TCSRVDYCLLSDHGCEYSCVNMDRSFACQCPEGHVLRSDGKTCAKL DSCALGDHGCEHSC  
VSEDSFVCQCFEGYILREDGKTCRRKDVCQAIDHGCEHICVNSDDSYTCECLEGFR LAE  
DGKRCRRKDVCKSTHHGCEHICVNNGNSYICKCSEGFVLAEDGRRCKKCTEGPIDLVFVI  
DGSKSLGEENFEVVKQFVTGIIDSLTISPKAARVGLLQYSTQVHTEFTLRNFNSAKDMKK  
AVAHMKYMGKGSMTGLALKHMFERSFTQGEGARPLSTRVPRAAIVFTDGRAQDDVSEWAS  
KAKANGITMYAVGVGKAIEEELQEIAS EPTNKHLFYAEDFSTMDEISEKLKKGICEALED

SDGRQDSPAGELPKTVQQPTESEPVTTINIQLLSCSNFAVQHRYLFEEDNLLRSTQKLSH  
STKPSGSPLEEKHDQCKCENLIMFQNLANEEVRKLTQRLEEMTQRMEALENRLRYR

>sp|Q7Z434|MAVS\_HUMAN Mitochondrial antiviral-signaling protein OS=Homo sapiens GN=MAVS  
PE=1 SV=2

MPFAEDKTYKYICRNFSCNVDVVEILPYLPCLTARDQDRLRATCTLSGNRDTLWHLFN  
TLQRRPGWVEYFIAALRGCELVDLADEVASVYQSYQPRTSDRPPDPLEPPSLPAERPGPP  
TPAAAH SIPYNSCREKEPSYMPVQETQAPESPGENSEQALQTLSPRAIPRNPDGGPLES  
SSDLAALSPLTSSGHEQDTELGSTHTAGATSSLTPSRGPVSPSVSFQPLARSTPRASRL  
PGPTGSVVSTGTSFSSSSPGLASAGAAEGKQGAESDQAEPIICSSGAEAPANSLPSKVPT  
TLMPVNTVALKVPANPASVSTVPSKLP TSSKPPGAVPSNAL TNPAPSKLP INSTRAGMVP  
SKVPTSMVLTKVSASTVPTDGSSRNEETPAAPT PAGATGGSSAWLDSSSENRLGSEL SK  
PGVLASQVDSPFSGCFEDLAISASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLE  
GNPGPPADPDGGPRPQADRKFQEREVPCHRSPGALWLQVAVTGVLVVTLLVLYRRRLH

>sp|Q496Y0|LONF3\_HUMAN LON peptidase N-terminal domain and RING finger protein 3 OS=Homo  
sapiens GN=LONRF3 PE=1 SV=1

MESVRIEQMLSLPAEVSSDNLESAERGASAAQVDMGPHPKVAAEGPAPLP TREPEQE QSP  
GTSTPESKVLLTQADALASGRGIREALEVYRQLSERQQLVAEQLEQLVRCLAEKVPQGEA  
LAPAPPDEGSTASGTVAEEETGAAAAAAATEVWDGFKCRKCHGFLSDPVSLSCGHTFCKL  
CLERGRAADRRCALCGVKLSALMVATGRARGARRAGQQPPPLRVNVVLSGLLGKLFPGP  
ARASQLRHEGNRLYRERQVEAALLKYNEAVKLAPNDHLLYSNRSQIYFTLESHENALHDA  
EIAKLRPMGFKAHFRKAQALATLGKVEEALREFLYCVSLDGKNKRARCEAQRDNLELPH  
CSSQEEAAARGDGSSLMDBAKVKGDGQHHMKDQEEEEKWDATSPKAASSKTGKCQEKK  
RKHCQIESQEETGMPNKASKQDPPTDQGDKPALSLPLASFDASDLECALCMRLFYEPVTT  
PCGHTFCLKCLERCLDHNAKCPLCKDGLSQCLASRKYSKNVIMEELIAKFLPEELKERRK  
LYEEEMEELS NLKNVPIFVCTMAYPTVPCPLHIFEPCYRLMIRRCIETGTRQFGMCLGD  
PVKGFAEYGCILEIRNVQFFADGRSVVDSIGKRRFRVLHQSQRDGYNTADIEYIEDQKVQ  
GEDCAELMGLHNCVYQQASLWFHSLKLSLKNRILNHF GPMPEKDADPQMNPNGPAWCWWM  
LAVLPLESRAQLPFLAMRSLKDRLNGIRRVLAFISRNN

>sp|P16050|LOX15\_HUMAN Arachidonate 15-lipoxygenase OS=Homo sapiens GN=ALOX15 PE=1 SV=3

MGLYRIRVSTGASLYAGSNNQVQLWLVGQHGEAALGKRLWPARGKETELKVEVPEYLGPL  
LFVKLRKRHLLKDDAWFCNWISVQGPAGDEVRFPCYRWVEGNGVLSLPEGTGRTVGEDP  
QGLFQKHREEELEERRKLYRWGNWKDGLILNMAGAKLYDLPVDERFLEDKRVD FEVSLAK  
GLADLAIKDSL NVLTCWKDLDDFNRIFWCGQSKLAERVDSWKEDALFGYQFLNGANPVV  
LRRSAHLPARLVFPFGMEELQAQLEKELEGGTLFEADFSLLDGIKANVILCSQQHLAAPL  
VMLKLQPDGKLLPMVIQLQLPRTGSPPPPLFLPTDPPMAWLLAKCWVRSSDFQLHELQSH  
LLRGHLM AEVIVVATMRCLPSIHPFKLIIPHLYRTLEINVRARTGLVSDMGIFDQIMST  
GGGGHVQLLKQAGAFITYSSFCPPDDLADRGLLGVKSSFYAQDALRLWEI IYRYVEGIVS  
LHYKTDVAVKDDPELQ TWCREITEIGLQGAQDRGFPVSLQARDQVCHFVTMCIFTCTGQH  
ASVHLGQLDWYSWVPNAPCTMRLPPTTKDATLETVMATLPNFHQASLQMSITWQLGRRQ  
PVMVAVGQHEEEYFSGPEPKAVLKKFREELAALDKEIEIRNAKLMPYEYLRPSVVENSV  
AI

>sp|P58215|LOXL3\_HUMAN Lysyl oxidase homolog 3 OS=Homo sapiens GN=LOXL3 PE=2 SV=1

MRPVSVWQWSPWGLLLCLLSSCLGSPSPSTGPEKKAGSQGLRFRLAGFPRKPYEGRVEI  
QRAGEWGTICDDDFTLQAAHILCRELGFTEATGWTHSAKYGPGTGRIWLDNLSCSGTEQS

VTECASRGWGNSDCTHDEDAGVICKDQRLPGFSDSNVIEVEHHLQVEEVRIRPAVGWGRR  
PLPVTGLVEVRLPDGWSQVCDKGWSAHNSHVCGMLGFPSEKRVNAAFYRLLAQRRQHS  
FGLHGVACVGTEAHLSLCSLEFYRANDTARCPGGGPAVSCVPGPVYAAASSGQKKQQSK  
PQGEARVRLKGAHPGEGRVEVLKASTWGTVCDRKWDLHAASVVCRELGFGSAREALSGA  
RMGQGMGAIHLEVRCSGQELSLWKCPHKNITAEDCSHSQDAGVRCNLPYTGAETRIRLS  
GGRSQHEGRVEVQIGGPGPLRWGLICGDDWGTLEAMVACRQLGLGYANHGLQETWYWDG  
NITEVMSGVRCTGTSLDQCAHHGTHITCKRTGTRFTAGVICSETASDLLLHSAVQE  
TAYIEDRPLHMLYCAAEEENCLASSARSANWPYGHRRLLRFSSQIHNLGRADFRPKAGRHS  
WVWHECHGHYHSMDFITHYDILTPNGTKVAEGHKASFCELTECQEDVSKRYECANFGEQ  
GITVGCWDLYRHDIDCQWIDITDVKPGNYILQVINPNFEVAESDFTNNAMKCNCXYDGH  
RIWVHNCHIGDAFSEEANRRFERYPGQTSNQII

>sp|Q16609|LPAL2\_HUMAN Putative apolipoprotein(a)-like protein 2 OS=Homo sapiens GN=LPAL2  
PE=5 SV=1

MEHKEVLLLLLLFLKSAPTETGPSVQECYHSNGQSYRGTYFTTVTGRTCQAWSSMTPHQH  
SRTPEKYPNDGLISNYCRNPDCSAGPWCYTTPDNRWEYCNLTRCSDEGTVFVPLTVIP  
VPSLEDSFIQVA

>sp|Q93052|LPP\_HUMAN Lipoma-preferred partner OS=Homo sapiens GN=LPP PE=1 SV=1

MSHPSWLPPKSTGEPLGHVPARMETTHSFGNPSISVSTQQPPKKFAPVVAPKPKYNPYKQ  
PGGEGDFLPPPPPLDDSSALPSISGNFPPPPPLDEEAFKVQGNPGGKLEERRSSLDAE  
IDSLTSLADLECSSPYKPRPPQSSTGSTASPPVSTPVTGHKRMVIPNQPLTATKKSTL  
KPQPAPQAGPIPVAPIGTLKPQPVPVASYTTASTSSRPTFNVQVKSQPSPHYMAAPSS  
GQIYSGSPQGYNTQVPVSGQCPPPSTRGGMDYAYIPPPGLQPEPGYGYAPNQGRYYEGY  
YAAGPGYGGRNDSPTYGQQGHNPWKREPGYTPPGAGNQPPGMYPTGPKKTYITDPV  
SAPCAPPLQPKGGHSGQLGPSSVAPSFRPEDELEHLTKKMLYDMENPPADEYFGRCARCG  
ENVVGEGTGCTAMDQVFHVDCFTCIICNNKLRGQPFYAVEKKAYCEPCYINTLEQCNVCS  
KPIMERILRATGKAYHPHCFCTCMCHRSLDGIPFTVDAGGLIHCIEDFHKKFAPRCVCK  
EPIMPAPGQEETVRIVALDRDFHVHCYRCEDCGGLLSEGDNQGCYPLDGHILCKTCNSAR  
IRVLTAKASTDL

>sp|Q8TF66|LRC15\_HUMAN Leucine-rich repeat-containing protein 15 OS=Homo sapiens  
GN=LRR15 PE=2 SV=2

MPLKHYLLLLVGCAWAGLAYHGCPSECTCSRASQVECTGARIVAVPTPLPWNAMSLQI  
LNTHITELNESPFNLISALIALRIEKNELSRITPGAFRNLGSLRYLSLANNKLQVLPIGL  
FQGLDSLESLLLSSNQLLIQPAHFSQCSNLKELQLHGNHLEYIPDGAFDHLVGLTKLNL  
GKNSLTHISPRVFQHLGNLQVLRLYENRLTDIPMGTFDGLVNLQELALQQNQIGLLSPGL  
FHNHNLQRLYLSNNHISQLPPSVFMQLPQLNRLTLFGNSLKELSPGIFGMPNLRWL  
YDNHISLDPNVFSNLRQLQVLIILSRNQISFISPGAFNGLTELRELSLHTNALQDLGDNV  
FRMLANLQNISLQNNRLRQLPGNIFANVNGLMAIQLNQNLNPLGIFDHLGKLCERL  
YDNPWRCDSDILPLRWLLNQPRLGTDTPVPCFSPANVRGQSLIIINVNAVPSVHVPE  
VPSYPETPWYPTPSYPDTTSVSTTELTSPVEDYTDLTITQVTDNRVWGMTQAQSGLA  
IAAIVIGIVALACSLAACVGCCCKKRSQAVLMQMKAPNEC

>sp|Q8TCA0|LRC20\_HUMAN Leucine-rich repeat-containing protein 20 OS=Homo sapiens  
GN=LRR20 PE=1 SV=1

MLKKMGEAVARVARKVNETVESGSDTLDAECKLVSFPIGIYKVLNVSGQIHLITLANN  
ELKSLTSKFMTTFSQLRELHLEGFLHRLPSEVSALQHLKAIDLSRNQFQDFPEQLTALP



ALETINLEENEIVDVPVEKLAAMPALRSINLRFNPLNAEVRVIAPPLIKFDMLMSPEGAR  
APLP

>sp|Q50LG9|LRC24\_HUMAN Leucine-rich repeat-containing protein 24 OS=Homo sapiens  
GN=LRR24 PE=2 SV=2

MALRAPALLPLLLLLPLRAAGCPAACRCYSATVECGALRLRVVPLGIPPGTQTLFLQDN  
NIARLEPGALAPLAALRRLYLHNNSLRALEAGAFRAQPRLLELALTSNRLRGLRSGAFVG  
LAQLRVLYLAGNQLARLLDFTFLHLPRQLQELHLQENSIELLEDAQLAGLSSALLDLSRN  
QLGTISREALQPLASLQVLRRLTENPWRCDCALHWLGAWIKEGGQRLTSRDRKIMCAEPP  
RLALQSLLDVSHSLICIPPSVHVQPLELTANLGEDLRVACQASGYPPVLTWRKVPQPR  
EGRPRAQAQLEGGLGLGGHSASDTGSGMLFLSNITLAHAGKYECEASNAGGAARVPFRL  
LVNASRQQPQPAQPPPAARPAGSEPRPEAGSMAFRALGVATQTATAIAAIALALTALL  
LVAMICRRRRRRKKARGPPGEGALFVNDYLDGPCTFAQLEELRDERGHEMFVINRSKPLF  
AEGPAEAPADCGPEQGAGPGLRVPPPVAYE IHC

>sp|Q8N386|LRC25\_HUMAN Leucine-rich repeat-containing protein 25 OS=Homo sapiens  
GN=LRR25 PE=1 SV=2

MGGLAWTLLPLLLRESDSLPSCTVSSADVDWNAEFSATCLNFSGLSLSLPHNQSLRA  
SNVILLDLSGNGLRELPTVFFAHLQKLEVLNVLNRNPLSRVDGALAARCDLDLQADCNCAL  
ESWHDIRRDNCSGQKPLLCWDTSSQHNLSAFLEVSCAPGLASATIGAVVSGCLLLGLA  
IAGPVLAWRLWRCRVARSRELNKPWAAQDGPKPGLGLQPRYGSRSAPKPQVAVPSCPSTP  
DYENMFVGGPAAEHQWDEQGAHPSEDNDFYINYKIDIDASQPVYCNLQSLGQAPMDEEY  
VIPGH

>sp|Q96DD0|LRC39\_HUMAN Leucine-rich repeat-containing protein 39 OS=Homo sapiens  
GN=LRR39 PE=2 SV=1

MTENVVCTGAVNAVKEVWEKRIKLNEDLKREKEFQHKLVRIWEERVSLTKLREKVTRED  
GRVILKIEKEWKTLPSSLLKLNQLQEWQLHRTGLLKIPFIFGRFQNLIVLDLSRNTISE  
IPPGIGLLTRLQELILSYNKIKTPKELSNCASLEKLELAVNRDIDLPQELSNLLKLTH  
LDLSMNDFTTIPLAVLNMPALEWLDMGSNKLEQLPDTIERMQNLHTLWLQRNEITCLPQT  
ISNMKNLGTVLVSNKLDIPVCMEEANLRFVNFRDNPLKLKVSLLPSEGTEDEEEREL  
FGLQFMHTYIQESRRRADHQVNGSTTLPISINTDG

>sp|Q15345|LRC41\_HUMAN Leucine-rich repeat-containing protein 41 OS=Homo sapiens  
GN=LRR41 PE=1 SV=3

MAAPEAWRARSCWFCEVAAATTMEATSREAAPAKSSASGPNAPPALFELCGRAVSAHMGV  
LESGVWALPGPILQSILPLNIYLERIEETALKKGLSTQAIWRRWLDELMKTRPSSLES  
VTCWRKFMEAFFSHVLRGTIDVSSDRRLCDQRFSPLLHSSRHVRQLTCNMLQGATELV  
AEPNRRVLETLASSLHTLKFRLHLSFDVAAQQLRQLLHQLIHHGAVSQVSLYWPVPES  
ALFILILTMSAGFWQPGPGPPCRLCGEASRGAPSRDEGSLLGSRPRRDAAERCAAA  
LMASRRKSEAKQMPRAAPATRVTRRSTQESLTAGGTDLKRELHPPATSHEAPGTRKSPSA  
PAATSSASSSTSSYKRAPASSAPQPKPLKRFKRAAGKKGARTRQGGAESDLYDFVFIV  
AGEKEDGEEMEIGEACGALDGDPSCLGLPALEASQRFRSISTLELFTVPLSTEAATL  
CHLLSSWVSLESLTSLSYNGLGSNIFRLDLSLALSGQAGCRLRALHLSDLFSPLPILELT  
RAIVRALPLLRLVLSIRVDHPSQRDNPGVPGNAGPPSHIIGDEEIPENCLEQLEMGFPRGA  
QPAPLLCSVLKASGLQQLSLDSATFASPQDFGLVLQTLKEYNLALKRSLFHDMLNADCC  
SEVLFLLQNLTLQEITFSFCRLFEKRPAAQFLPEMVAAMKGNSTLKGRLPGNRLGNAGLL  
ALADVFSEDSSSSLCQLDISSNCIKPDGLLEFAKRLERWGRGAFGHLRLFQNWLDQDAVT

AREAIRRLRATCHVVSWSWSSQAFADYVSTM

>sp|Q8N309|LRC43\_HUMAN Leucine-rich repeat-containing protein 43 OS=Homo sapiens  
GN=LRR43 PE=2 SV=2

MEASYESESESEAGPGTQRPGTGTVSAAVREHLRKLCLREFPCGAGSWNKSRLPQWT  
RTWRELVPREEDVSPGEETVEALLGLVRSRHSWALLNNSNAEDSFLRELAI RNPLTIT  
DTFFYSYFRSLRVIDKKVTLVDKDLLKFLKLEELVLSANRIKEVDATNLPPTLKVLELYG  
NEISSMECLCAHPPAGLQHLGLGHNKLLGPLESYVTANHWPNLVSLDLGFNDLTDLQSM  
VTSLRTLRLRLVLQGNPLALVPYYRGLTIDSLAQLCVLDDITVSPNEKHLFRGLSLNG  
DLAQEAQFVVTIGNIRGVLDTSVLDPEPRPEGPFITYNYVVTYDFVKDEEGEMNESAGV  
LAEIVKPPSPLELLVEESPEEVVEDVIEDIVEEVTEEVEGSLESEVEESGESELSVISGP  
STILQMPRASAEELAKLRLRIDPRLCPSPGTVLFSTAHPWAEVIPCSEYMQHSLRDLVP  
LKAFLLAGTTVTIVEEKILSWPVVLPVDSPLSAKKGKGEKDKKGKEKDRTGKGEKEPAK  
EWKVLKKKKEPPKELRQDPPILQVLGRGLVILEPLLAGEPLVSTVCNFGVVRTLTSDRLT  
LARDSKKIKKVAKEKPKAVIPIYEGDYHPEPLTVEVQIQLNQCRSAEEALRMFAV

>sp|Q96FV0|LRC46\_HUMAN Leucine-rich repeat-containing protein 46 OS=Homo sapiens  
GN=LRR46 PE=2 SV=1

MSGGKSAQGP EEGVCITEALITKRNLTFPEDGELSEKMFHTLDELQTVRLDREGITTIR  
NLEGLQNLHSLYLQGNKIQIENLACIPSLRFLSLAGNQIRQVENLLDLPCLQFLDLSN  
LIETLKLDEFQSLILNLSGNSCTNQDGYRELVTEALPLLLDLGQPVVERWISDEEDE  
ASSDEEFPELSGPFCSERGFLKELEQELSRHREHRQQTALTEHLLRMEMQPTLTDLPLP  
GVPMAGDSSPSATPAQGEETVPEAVSSPQASSPTKKPCSLIPRGHQSSFWRKGARAATA  
PKASVAEAPSTTKTTAKRSKK

>sp|Q8IUZ0|LRC49\_HUMAN Leucine-rich repeat-containing protein 49 OS=Homo sapiens  
GN=LRR49 PE=2 SV=2

MIPGKYRSVSGRAANNVNCGLHLVIQTSSLPEKNKVEFKLNKDTSSFPGRLLQHDLERNY  
SSRQGDHINLVSSSLSSFPILQRSSEKILYSDRLSLERQKLTVCPIINGEDHLRLNLFQ  
HNFITRIQNISNLQKLISLDLYDNQIEEISGLSTLRCLRVLLGKNRIKKISNLENLKS  
LDVLDLHGNQITKIENINHLCELRLVNLARNFLSHVDNLNGLSLTELNLRHNQITFVRDV  
DNLPCQLHLFLSFNNISSFDSVSLADSSSLSDITFDGNPIAQESWYKHTVLQNMMLRQ  
LDMKRITEEERRMASVLAKKEEEKKRESHKQSLLEKKKRLTINNVARQWDLQQQRVANIA  
TNEDRKDSQSPQDPCQIDGSTLSAFPEETGPLDGLNNALQGLSVIDTYLVEVDGDTLSL  
YGSGALES LDRNWSVQTAGMITTVSFTFIEFDEIVQVLPKLKIKFPNSLHLKFETNLVM  
LQQFNALQ LRRIDQLTIDPQGNPVVNFTLWKYYVLFRLSHFSMQKINGTEVTQNDMIMA  
ERLFGILAHVASSEL PQYRLISILGDARKKQFRYLLESKGKPGIINEENNSKRLVGEN  
TNRATLNYTTRDFYNEKLEEIKEKKKFCKTYIEDLVKEATEINMKNEALQKLWPQMFIEL  
VRDAVIEIRNKNSYMKLCLQQITDQK

>sp|Q6ZNQ3|LRC69\_HUMAN Leucine-rich repeat-containing protein 69 OS=Homo sapiens  
GN=LRR69 PE=2 SV=2

MTERLLIKALSGGKNTKIITLNGKKMTKMPSALGKLPGLKTLVLQNNLIPKVCPELCNLT  
QLTTNLNLGNNLLEEVPEEMKYLTSLKNLHLSGNRICRFAPGACDGLQNLILLNLNNHLT  
QLPQEVSRKSLTYMSINYNQLASIPRELCFLENLVELQLNYNQLICIPEEIKFLKKLQK  
LLLARNNIGVLPEELCDLKKLRILDIAGNIIQIFPSGFQDLKREFYCEGNPLFLQQPVI  
STQQENVWSLQEITSRFVMNQLAENNPFLMDDIERYPQVRSMISQGTCAICGQYFITVW  
LECVRVFPPPKDWKISKNLKLVPLQVLICSYKCFTRDPNLFGIAQV

>sp|075581|LRP6\_HUMAN Low-density lipoprotein receptor-related protein 6 OS=Homo sapiens  
GN=LRP6 PE=1 SV=2

MGAVLRSLACSCFVLLRAAPLLLYANRRDLRLVDATNGKENATIVVGGLEDAAAVDFVF  
SHGLIYWSDVSEEAIKRTEFNKTESVQNVVVSGLLSPDGLACDWLGEKLYWTDSETNRIE  
VSNLDGSLRKVLFWQELDQPRAIALDPSSGFMWTDWGEVPKIERAGMDGSSRFIIINSE  
IYWPNGLTLDYEEQKLYWADAKLNF IHKSNLDGTNRQAVVKGSLPHPFALTLFEDILYWT  
DWSTHSILACNKYTGEGLREIHSDIFSPMDIHAFSQQRQP NATNPCGIDNGGCSHLCLMS  
PVKPFYQCACPTGVKLENGKTCCKDGATELLLLARRTDLRRISLDTPDFTDIVLQLEDIR  
HAIAIDYDPVEGYIYWTDDEVRAIRRSFIDGSGSQFVVT AQIAHPDGI AVDWARNLYWT  
DTGTDRIEVRTLN GMTRKILISEDLEEPRAIVLDP MVGYMYWTDWGEIPKIERAALDGSD  
RVVLVNTSLGWPNGLALDYDEGKIYWGDAKTDKIEVMNTDGTGRRVLVEDKIPHIFGFTL  
LGDYVYWTDWQRRSIERVHKRSAEREVIIDQLPDL MGLKATNVHRVIGSNPCAENGCGS  
HLCLYRPQGLRCACPIGFELISDMKTCIVPEAFLLFSRRADIRRI SLETNNNNVAIPLTG  
VKEASALDFDVTDNRIYWTDISLKTISR AFMNGSALEHVVEFGLDYPEGMAVDWLGNLY  
WADTGTNRIEVS KL DGHRQVLVWKDL DSPRALALDPAEGFMYWTEWGGKPKIDRAAMDG  
SERTTLVPNVGRANGLTIDYAKRRLYWTDLTNLI ESSNMLGLNREVIADDLPHPFGLTQ  
YQDYIYWTDWSRRSIERANKTSGQNRTIIQGHLDYVMDILVFHSSRQSGWNECASSNGHC  
SHLCLAVPVGGFVCGCPAHYSLNADNRTCSAPTTFLLFSQKSAINRMVIDEQQSPDIILP  
IHSLRNVRAIDYDPLDKQLYWIDSRQNMIRKAQEDGSQGFTVVVSSVPSQNLEIQPYDLS  
IDIYSRYIYWTCEATNVINVRTLDGRSVGVVLKGEQDRPRAVVVNPEKGYMYFTNLQERS  
PKIERAALDGTEREVLF FSGLSKPIALALDSRLGKLFWADSDLRRIESSDLSGANRIVLE  
DSNILQPVG LTVFENWLYWIDKQQMIEKIDMTGREGR TKVQARIAQLSDIHAVKELNLQ  
EYRQHPCAQDNGGCSHICLVKGDGTRCSCPMHLVLLQDELSCGEPPTCSPQQFTCTGE  
IDCIPVAWRCDGFTECEDHSDELNCPVCSESQFQCASGQCIDGALRCNGDANCQDKSDEK  
NCEVLCLIDQFRCANGQCIGKHKKCDHNVD CSDKSD ELD CYPTEEPAPQATNTVGSVIGV  
IVTIFVSGTVYFICQRMLCPRMKGDGETMTNDYV VHGPA SVPLGYVPHPSLSGSLPGMS  
RGKSMISSLSIMGGSSGPPYDRAHVTGASSSSSSSTKGT YFPAILNPPPSPATERSHYTM  
EFGYSSNSPSTHRSYSYRPYSYRHFA PPTPCSTDVCDSDYAPSRMTSVATAKGYTSDL  
NYDSEPVP PPTPRSQYLSAENYESCPPSPYTERSYSHHLYPPPPSPCTDSS

>sp|A4D1F6|LRRD1\_HUMAN Leucine-rich repeat and death domain-containing protein 1 OS=Homo sapiens  
GN=LRRD1 PE=2 SV=2

MSEKEGMSEVLEDTISQFRKESRSQSMKEPGFIKETS NLINEASDYLEGKSSNQIYETHP  
RQNTLESTSSSGRKS KRNEEQKKNLQFSETSTRTGTSQSLSSLTGRTAEYQALVNFLSHE  
TVGEVSPQVSEENQKQLGLGADNFTVNLEAKGLQEFPKDILKIKYVKYLYLDKNQIKTFQ  
GADSGDLLGLEILSLQENGLSSLPSEIQLLHNLRLNVSHNHISHIPKEISQLGNIRQLF  
FYNNYIENFPSDLECLGNLEILSLGKNKL RHIPDTLPSLKT LRVLNLEYNQLTTFPKALC  
FLPKLISLDLTGNLISSLPKEIRELKNLETLLMDHNKLTFLAVEIFQLLKIKELQLADNK  
LEVISHKIENFRELRLILDKNLLKNIPEKISCCAMLECLSLSDNKLTELPKYIHKLNLL  
RKLHVNRNMVKITDCISHLNNICSLEFSGNIITDVPIEIKNCQKIIKIELSYNKIMYFP  
LGLCALDSLYYLSVNGNYISEIPVDISFSKQLLHLELSENKLLIFSEHFCSLINLKYLDL  
GKNQIKKIPASISNMISLHVLILCCNKFETFPRELCTLENLQVLDLSENQLQKISSDICN  
LKGIQKLN FSSNQFIHFPIELCQLQSLEQLNISQIKGRKLTRLPGELSNMTQLKELDISN  
NAIREIPRNIGELRNLVSLHAYNNQISYLP SLLSLNDLQQNLNSGNNLTALPSAIYNIF  
SLKEINFDDNPLL RPPVEICKGKQLYTTIARYLQRADERDEKILEKIFKIVANNITETNFE

FLCQKLNLANSETDMPTKSTVSLSERAHQALVIWKTQSNKLSLTAAALRDQLIRALTMIG  
AYEIMDKITALNLFTRAIKF

>sp|Q9Y608|LRRF2\_HUMAN Leucine-rich repeat flightless-interacting protein 2 OS=Homo  
sapiens GN=LRRFIP2 PE=1 SV=1

MGTPASGRK RTPVKDRFSAEDEALSNIAREAEARLAAKRAARAEARDIRMRELERQQKEY  
SLHSFDRKWGQIQKWLEDSEARARYSHRSSHHRPYLGVEDALSIRSVGSHRYDMFKDRSSR  
LSSLNHSYSHSHGMKKRSSDSHKDLLSGLYFDQRNYSSLRHSKPTSAYYTRQSSSLYSDP  
LATYKSDRASPTANSGLLRASLASLYNGGLYNPYGPRTPECSYSSRISSARSSPGFT  
NDDTASIVSSDRASGRRESVVSAAADYFSRSNRRGSVSEVDDISIPDLSSLDEKSDKQY  
AENYTRPSSRNSASATTPLSGNSSRRGSGDTSSLIDPDTLSSELRDIYDLKDQIQDVEGR  
YMQGLKELKESLSEVEEKYKKAMVSNAQLDNEKNNLIYQVDTLKDVIEEQEEQMAEFYRE  
NEEKSKELERQKHMCSVLQHKMEELKEGLRQRDELIEEKQRMQQKIDTMTKEVFDLQETL  
LWKDKKIGALEKQKEYIACLRNERDMLREELADLQETVKTGEKHGLVIIPDGT PNGDVSH  
EPVAGAITVVSQEAQVLESAGEGPLDVRLRKLAGEKEELLSQIRKLKLQLEERQKCSR  
NDGTVGDLAGLQNGSDLQFIEMQRDANRQISEYKFKLSKAEQDITTEQSI SRLEGQVLR  
YKTA AENA EKVEDELKAEKRKLQRELRTALDKIEEMEMTNSHLAKRLEKMKANRTALLAQ  
Q

>sp|Q38SD2|LRRK1\_HUMAN Leucine-rich repeat serine/threonine-protein kinase 1 OS=Homo  
sapiens GN=LRRK1 PE=1 SV=3

MAGMSQRPPSMYWCVP EESA VC PERAMETLNGAGDTGGKPSTRGGDPAARSRRTEGIRA  
AYRRGRDRGGARDLLEEACDQCASQLEKGQLLSIPAAYGDLEMVRYLLSKRLVELPTEPTD  
DNPAVVAAYFGHTAVVQELLES LPGPCSPQRLLNWMLALACQRGHLGVVKLLVLTHGADP  
ESYAVRKNEFPVIVRLPLYAAIKSGNEDIAIFLLRHGAYFCSYILLDSPDPSKHLLRKYF  
IEASPLPSSYPGKTALRVKWSHLRLPWVDLDWLIDISCQITELDLANCLATLPSVIPWG  
LINLRKLNLSDNH LGELPGVQSSDEIICSRLLIEDISSNKLSHLPPGFLHLSKLQKLTAS  
KNCLEKLFEEENATNWIGLRKLQELDISDNKLT ELPALFLHSFKSLNSLNVSRNNLKVFP  
DPWACPLKCKASRNALECLPDKMAVFWKNHLKD VDFSENALKEVPLGLFQLDALMFLRL  
QGNQLAALPPQEKWTCRQLKTLDSRNQLGKNEDGLKTKRIAFFTTTRGRQ RSGTEAASVL  
EFP AFLSESLEVLCLNDNHLDTPPSVCLLKSLS ELYLGNNPGLRELPELGQLGNLWQL  
DTEDLTISNVP AEIQKEGPKAMLSYLR AQLRKA EKCKLMKMIIVGPPRQ GKSTLLEILQT  
GRAPQVVHGEATIRTTKWELQRPAGSRAKVESVEFNVDIGGPASMATVNQCFFTDKALY  
VVVWNALGEEAVANLQFWLLNIEAKAPNAVVLVVGTHLDLIEAKFRVERIATLRAYVLA  
LCRSPSGSRATGFPDITFKHLHEISCKSLEGQEGLRQLIFHVTCSMKDVGSTIGCQRLAG  
RLIPRSYLSLQEA VLAEQQR SRDDDVQYLTDRQLEQLVEQTPDNDIKDYEDLQSAISFL  
IETGTL LHFPDTS HGLRNLYFLDPIWLSECLQRIFNIKGSRSVAKNGVIRAEDLRMLLVG  
TGFTQQTEEQYFQLAKFEIALPVANDSYLLPHLLPSKPGLDTHGMRHPTANTIQRVFKM  
SFVPVGFWRQFIARMLISLAEMDLQLFENKNTKSRNRKVTIYSFTGNQRNRCSTFRVKR  
NQTIYWQEGLLVTFDGGYLSV ESDVNWKKKKSGGMKIVCQSEVRDFSAMAFITDHVNSL  
IDQWFPALTATESDGTPLMEQYVPCVCETAWAQHTDPSEKSEDVQYFDMEDCVLTAIER  
DFISCRHPDLPVPLQELVPELFMTDFPARLFL ENSKLEHSEDEGSVLGQGGSGTVIYRA  
RYQGQPVAVKRFHIKKFKNFANVPADTMLRHLRATDAMKNFSEFRQEASMLHALQHPCIV  
ALIGISIHPLCFALELAPLSSLNTVLS ENARDSSFIPLGHMLTQKIAYQIASGLAYLHKK  
NIIFCDLKS DNILVWSLDVKEHINIKLSDYGISRQSFHEGALGVEGTPGYQAPEIRPRIV  
YDEKVD MFSYGMVLYELLSGQRPALGHHQLQIAKKLSKGIRPVLGQPEEVQFRRLQALMM

ECWDTKPEKRPLALSVVSQMKDPTFATFMYELCCGKQTAFSSQGQEYTVVFWDGKEESR  
NYTVVNTEKGLMEVQRMCCPGMKVSCQLQVQRSLWTATEDQKIYIYTLKGMCPNTPQQA  
LDTPAVVTCFLAVPVIKNSYLVLAGLADGLVAVFPVVRGTPKDCSYLCSHTANRSKFS  
IADEDARQNPYPVKAMEVVNSGSEVWYSNGPGLVIDCASLEICRRLEPYMAPSMVTSV  
CSSEGRGEEVVWCLDDKANSLVMYHSTTYQLCARYFCGVPSPLRDMFPVRPLDTEPPAAS  
HTANPKVPEGDSIADVSIMYSEELGTQILIHQESLTDYCSMSSYSSSPRQAARSPSSLP  
SSPASSSSVPFSTDCEDSDMLHTPGAASDRSEHDLTPMDGETFSQHLQAVKILAVRDLIW  
VPRRGDVIVIGLEKDSGAQRGRVIAVLKARELTPHGVLVDAAVVAKDTVVCTFENENTE  
WCLAVWRGWGAREFDIFYQSYEELGRLEACTRKRR

>sp|Q9H3W5|LRRN3\_HUMAN Leucine-rich repeat neuronal protein 3 OS=Homo sapiens GN=LRRN3  
PE=2 SV=1

MKDMPLRIHVLLGLAITTLVQAVDKKVDPCRLCTCEIRPWFTPRSIYMEASTVDCNDLGL  
LTFPARLPANTQILLQTNNAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLS  
VYLEENKLTPEKCLSELSNLQELYINHNLLSTISPGAFIGLHNLLRLHLNSNRLQMIN  
SKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLTEIPDNALVGLENLES  
ISFYDNRLIKVPHVALQKVVNLFDLNKNPINRIRRGDFSMLHLKELGINNMPELISI  
DSLAVDNLPDLRKIEATNPNRLSYIHPNAFFRLPKLESLMLNSNALSALYHGTIESLPNL  
KEISIHSNPIRCDVIRWMNMKNKTNI RFMEPDSLFCVDPPEFQGGQNVQVHFRDMMEICL  
PLIAPESFPSNLNVEAGSYVSFHCRAEAPQPEIYWITPSGQKLLPNTLTDKFYVHSEGT  
LDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSLNIKIRDIQANSVLVS  
WKASSKILKSSVKWTA FVKTENS HAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ  
KNRKKCVNVTTKGLHPDQKEYEKNNTTLMACLGGLGIGVICLISCLSPMNCDGGHS  
YVRNYLQKPTFALGELYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

>sp|Q8WUT4|LRRN4\_HUMAN Leucine-rich repeat neuronal protein 4 OS=Homo sapiens GN=LRRN4  
PE=2 SV=3

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LANRNLERLPGCLPRTLRLSDASHNLLRALSTSELGHLEQLQVLTLRHNRIAALRWGPGG  
PAGLHTLDLSYNQLAALPPCTGPALSSLRALALAGNPLRALQPRAFACFPALQLLNSCT  
ALGRGAQGGAIAEAFAGEDGAPLVTLEVLDLSGTFLERVESGWIRDLPKLTSYLRLKMPR  
LTTLEGDIFKMTPNLQQLDQCDSPALASVATHIFQDTPHLQVLLFQNCNLSSFPPWTLDS  
SQVLSINLFGNPLTCSCDLSWLLTDAKRTVLSRAADTMCAPAAGSSGPFASLSLSQLPG  
VCQSDQSTTLGASHPPCFNRSTYAQGTTVAPSAAPATRPAGDQQSVSKAPNVGSRTIAAW  
PHSDAREGTAPSTTNSVAGHSNSSVFPRAASTTRTQHRGEHAPELVLEPDISAASPLAS  
KLLGPFTSWDRSISPPQPGQRTHATPQAPNPSSLSEGEIPVLLDDYSEEEGRKEEVGT  
PHQDVPCDYHPCKHLQTPCAELQRRWRCRCPLSGEDTIPDPRLQGVTTETDTSALVHW  
CAPNSVVHGYQIRYSAEGWAGNQSVVGVYATARQHPLYGLSPGTTYRVCVLAANRAGLS  
QPRSSGWRSPCAFTTKPSFALLSGLCAASGLLLASTVVLSACLRRGQTLGLQRCDTH  
LVAYKNPAFDDYPLGLQTVS

>sp|Q86VH4|LRRT4\_HUMAN Leucine-rich repeat transmembrane neuronal protein 4 OS=Homo  
sapiens GN=LRRTM4 PE=2 SV=2

MGFHLITQLKGMSVVLVLLPTLLLVMLTGAQRACPKNCRCDGKIVYCESHAFADIPENIS  
GGSQGLSLRFNSIQKLKSNQFAGLNQLIWL YLDHNYISSVDEDAFQGIIRRLKELILSSNK  
ITYLHNKTFHPVPNLRNLDLSYNKLQTLQSEQFKGLRKLIIHLRSNSLKTVPPIRVFQDC  
RNLDLFDLGYNRLRSLSRNAFAGLLKLKELHLEHNQFSKINF AHFPRLFNLRSIYLQWNR

IRSIQGLTWTWSSLHNLDSLGNDIQGIEPGTFKCLPNLQKLNLDNKLTNISQETVNAW  
ISLISITLSGNMWECSRSICPLFYWLKNFKGNKESTMICAGPKHIQGEKVSDAVETYNIC  
SEVQVVNTERSHLVPQTPQKPLIIPRPTIFKPDVTQSTFETPSPSPGFQIPGAEQEYEHV  
SFHKIIAGSVALFLSVAMILLVIYVSWKRYPASMKQLQQHSLMKRRRKARESERQMNSP  
LQEYYVDYKPTNSETMDISVNGSGPCTYITISGSRECEMPHHMKPLPYYSYDQPVIGYCQA  
HQPLHVTKGYETVSPEQDESPGLELGRDHSFIATIARSAAPAIYLERIAN

>sp|Q9UFC0|LRWD1\_HUMAN Leucine-rich repeat and WD repeat-containing protein 1 OS=Homo sapiens GN=LRWD1 PE=1 SV=2

MGPLSARLLMQRGRPKSDRLGKIRSLDLSGLELLSEHLDPKLLCRLTQLQELDLSNNHLE  
TLPDNLGLSHLRVLRCAANNQLGDVTALCQFPKLEELSLEGNPFLT VNDNLKVSFLLPTLR  
KVNGKDASSTYSQVENLNRELTSRVTAHWEKFMATLGPEEEAEKAQADFVKSAVRDVRYG  
PESLSEFTQWRVRMISEELVAASRTQVQKANSPEKPPEAGAAHKPRARLAALKRPDDVPL  
SLSPSKRACASPSAQVEGSPVAGSDGSQPAVKLEPLHFLQCHSKNNSPQDLETQLWACAF  
EPAWEEGATSQTATCGGEAVCVIDCQTGIVLHKYKAPGEEFFSVAWTALMVVTQAGHKK  
RWSVLAAGLRGLVRLHLVRAGFCGVIIRAHKKAIIATLCFSPAETHLFTASYDKRIILW  
DIGVPNQDYEFQASQLLTLDTTIPLRLCPVASCPDARLLAGCEGGCCWDVRLDQPQKR  
RVCEVEFVFSEGSEASGRRVDGLAFVNEDIVASKGSGLTICLWSWRQTWGGRGSQSTVA  
VVVLARLQWSSTELAYFSLSACPDKGIVLCGDEEGNVWLYDVSNILKQPPLPAALQAPT  
QILKWPQPWALGQVVTMTMNTVVANASFTYLTALTDSNIVAIWGRM

>sp|Q9BX40|LS14B\_HUMAN Protein LSM14 homolog B OS=Homo sapiens GN=LSM14B PE=1 SV=1

MSGSSGTPYLGSKISLISKAQIRYEGILYITIDNSTVALAKVRSFGTEDRPTDRPAPPR  
EEIYEYIIIFRGSDIKDITVCEPPKAQHTLPQDPAIVQSSLGSASASPFQPHVPYSPFRGM  
APYGPLAASSLLSQYAASLGLGAGFPSIPVGKSPMVEQAVQTGSADNLNAKKLLPGKGT  
TGTQLNGRQAQPSKSTASDVVQPAAVQAQGVNDENRRPQRRRSGNRRTRNRSRGQNRPT  
NVKENTIKFEGDFDFESANAQFNREELDKFKKLNFKDDKAEGEEKDLAVVTQSAEAP  
AEEDLLGPNCYYDKSKSFNDNISSELTSSRRTTWAERKLNTETFGVSGRFLRGRSSRG  
GFRGGRGNGTTRRNPTSHRAGTGRV

>sp|Q9H089|LSG1\_HUMAN Large subunit GTPase 1 homolog OS=Homo sapiens GN=LSG1 PE=1 SV=2

MGRRRAPAGGSLGRALMRHQTQRSRSHRHTDSWLHTSELNDGYDWGRLNLQSVTEQSSLD  
DFLATAELAGTEFVAEKLNIKFPVPAEARTGLLSFEESQRIKKLHEENKQFLCIPRRPNWN  
QNTTPEELKQAEKDNFLEWRRQLVRLEEEQKLILTPFERNLDFWRQLWRVIERSDIVVQI  
VDARNPLLFRCEDLECYVKEMDANKENVILINKADLLTAEQSAWAMYFEKEDVKVIFWS  
ALAGAIPLNGDSEEEANRDDRQSNTTKFGHSSFDQAEISHSESEHLPARDSPSLSENPTT  
DEDDSEYEDCPEEEEDDWQTCSEEDGPKEEDCSQDWKESSTADSEARSRKTPQKRQIHNF  
SHLVSKQELLELFKELHTGRKVKDGQLTVGLVGYPNVGKSSTINTIMGNKVSVSATPGH  
TKHFQTLTYVEPGLCLDCPGLVMPFSVSTKAEMTCGILPIDQMRDHVPPVSLVCQNIPR  
HVLEATYGINIIITPREDEDPHRPPTSEELLTAYGYMRGFMTHAGQPDQPRSARYILKDYY  
SGKLLYCHPPPGRDPVTFQHQHQRLLENKMNSDEIKMQLGRNKKAKQIENIVDKTFFHQE  
NVRALTKGVQAVMGYKPGSGVVTASTASENGAGKPWKKGHNRNKKEKSRRLYKHLDM

>sp|Q3MHD2|LSM12\_HUMAN Protein LSM12 homolog OS=Homo sapiens GN=LSM12 PE=1 SV=2

MAAPPGEYFSVGSQVSCRTCQEQLQGEVVAFDYQSKMLALKCPSSSGKPNHADILLINL  
QYVSEVEIINDRTETPPPLASLNVSKLASKARTEKEEKLSQAYAISAGVSLEGQQLFQTI  
HKTIKDCKWQEKNIIVMEEVVIITPPYQVENCKGKEGSALSHVRKIVEKHFRDVESQKILQ  
RSQAQQPQKEAALSS

>sp|Q9Y2Q5|LTOR2\_HUMAN Ragulator complex protein LAMTOR2 OS=Homo sapiens GN=LAMTOR2 PE=1 SV=1

MLRPKALTQVLSQANTGGVQSTLLLNNEGSLLAYSGYGTDARVTAATIASNIWAAYDRNG  
NQAFNEDNLKFILMDCMEGRVAITRVANLLLCMYAKETVGFGLKAKAQALVQYLEEPLT  
QVAAS

>sp|Q14210|LY6D\_HUMAN Lymphocyte antigen 6D OS=Homo sapiens GN=LY6D PE=1 SV=1  
MRTALLLLAALAVATGPALTLRCHVCTSSSNCKHSVVCPASSRFCKTTNTVEPLRGNLVK  
KDCAESCTPSYTLQGQVSSGTSSTQCCQEDLCNEKLHNAAPTRTALAHSALSLGLALSLL  
AVILAPSL

>sp|Q16553|LY6E\_HUMAN Lymphocyte antigen 6E OS=Homo sapiens GN=LY6E PE=2 SV=1  
MKIFLPVLLAALLGVERASSLMCFSLNQKSNLYCLKPTICSDQDNYCVTVSASAGIGNL  
VTFGHSLSKTCSPACPIPEGVNVGVASMGISCCQSFLCNFSAADGGLRASVTLLGAGLLL  
SLLPALLRFGP

>sp|O94772|LY6H\_HUMAN Lymphocyte antigen 6H OS=Homo sapiens GN=LY6H PE=1 SV=1  
MLPAAMKGLGLALLAVLLCSAPAHGLWCQDCTLTTNSSHCTPKQCQPSDTCASVRITDP  
SSSRKDHSVNKMCASSCDFVKRHFFSDYLMGFINSILKVDVDCCEKDLNCGAAGAGHSP  
WALAGLLLSLGPALLWAGP

>sp|Q17RY6|LY6K\_HUMAN Lymphocyte antigen 6K OS=Homo sapiens GN=LY6K PE=1 SV=2  
MALLALLLVVALPRVWTDANLTARQDPEDSQRTDEGDNRVWCHVCERENTFECQNPRRC  
KWTEPYCVIAAVKIFPRFFMVAKQCSAGCAAMERPKEEKRFLLEEMPFFYLKCKKIRY  
CNLEGGPINSSVFKEYAGSMGESCGGLWLAILLLLASIAAGLSLS

>sp|P16581|LYAM2\_HUMAN E-selectin OS=Homo sapiens GN=SELE PE=1 SV=1  
MIASQFLSALTVLLIKESGAWSYNTSTEAMTYDEASAYCQQRVTHLVAIQNKEEIEYLN  
SILSYSPSYWIGIRKVNNVWVWGTQKPLTEEAKNWAPGEPNNRQKDEDCVEIYIKREK  
DVGMMWDERCSKKLALCYTAACNTSCSGHGECVETINNYTCKCDPGFSGLKCEQIVNC  
TALESPEHGSLVCSHPLGNFSYSSCSISCDRGYLPSSMETMQCMSSGEWSAPIPACNVV  
ECDAVTNPANGFVECFQNPGSFPWNTTCTFDCEEFGELMGAQSLQCTSSGNWDNEKPTCK  
AVTCRAVRQPQNGSVRCSHSPAGEFTFKSSCNFTCEEFGMLQGPAQVECTTQGGWTQQIP  
VCEAFQCTALSNPERGYMNCLPSASGSFRYGSSCEFSCEQGFVLKGSKRLLQCGPTGEWDN  
EKPTCEAVRCDAVHQPPKGLVRCAHSPIGEFTYKSSCAFSCEEFGELHGSTQLECTSQGQ  
WTEVPSCQVVKCSSLAVPGKINMSCSGEPVFGTVCKFACPEGWTLNGSAARTCGATGHW  
SGLLPTEAPTESNIPLVAGLSAAGLSLLTLAPFLLWRKCLRKAKKFVPASSQSLESD  
GSYQKPSYIL

>sp|Q9Y4K4|M4K5\_HUMAN Mitogen-activated protein kinase kinase kinase kinase 5 OS=Homo sapiens GN=MAP4K5 PE=1 SV=1

MEAPLRPAADILRRNPQQDYELVQRVGSPTYGDVYKARNVHTGELAAVKIIKLEPGDDFS  
LIQQEIFMVKECKHCNIVAYFGSYLSREKLWICMEYCGGSLQDIYHVTGPLSELQIAYV  
CRETLQGLAYLHTKGKMHDRDIKANILLTDHGDVKLADFGVAAKITATIAKRKSFITPY  
WMAPEVAAVEKNGGYNQLCDIWAVGITAIELGELQPPMFDLHPMRALFLMSKSNFQPPKL  
KDKTKWSSTFHNFKIALTKNPKKRPTAERLLTHTFVAQPGLSRALAVELLDKVNNPDNH  
AHYTEADDDDFEPHAIIRHTIRSTNRNARAERTASEINFDKLQFEPPLRKETEAREDEMGL  
SSDPNFMQLQWNPFDGANTGKSTSKRAIPPLPPKPRISSYPEDNFPDEEKASTIKHCPD  
SESRAQILRRQSSPSCGPVAETSSIGNGDGISKLMSENTEGSAQAPQLPRKNDKRDFPK  
PAINGLPPTPKVLMGACFSKVFDCPLKINCATSWIHPDTKDQYIIFGTEDGIYTLNLNE

LHEATMEQLFPRKCTWLYVINNTLMSLSEGKTFQLYSHNLIALFEHAKKPGLAAHIQTHR  
FPDRILPRKFALTTKIPDTKGCHKCCIVRNPYTGHKYLCGALQSGIVLLQWYEPMQKFML  
IKHDFDFPLPSPLNVFEMLVIPEQEYPMVCVAISKGTESNQVVFETINLSASSWFTEIG  
AGSQQLDSIHVTQLERDRTLVLCLDKFVKIVNLQGKLKSSKKLASELSFDFRIESVCLQD  
SVLAFWKHGMQGSFKSDEVTQEISDETRVFRLLGSDRVVLESRPTEPTAHSNLYILA  
GHENSY

>sp|Q9UPN3|MACF1\_HUMAN Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5 OS=Homo  
sapiens GN=MACF1 PE=1 SV=4

MSSSDEETLSERSRSERSRSERSYRSERSGSLSPCPPGDTLPWNPLHEQKKRKSQDS  
VLDPAERAVVRVADERDRVKKFTTKWVNKHLMKVRKHINDLYEDLRDGHNLISLLEVL  
GIKLPREKGRMRFHRLQNVQIALDFLKQRQVKLVNIRNDDITDGNPKLTLGLIWTIILHF  
QISDIYISGESGMSAKEKLLWTQKVTAGYTGKCTNFSSCWSGKMFNALIHRYRPDL  
VDMERVQIQSNRENLEQAFEVAERLGVTRLLDAEDVDVPSPEKSVITYVSSIYDAFPKV  
PEGGEGISATEVDSRWQEYQSRVDSLIPWIKQHTILMSDKTFPQNPVELKALYNQYIHF  
ETEILAKEREKGRIEELYKLEEVWIEFGRIKLPGYHPNDVEEHWGLIIEMLEREKSLR  
PAVERLELLLQIANKIQNGALNCEEKLTAKNTLQADAAHLESGPVQCESDVIMYIQEC  
EGLIRQLQVDLQILRDENYYQLEELAFRVMRLQDELVTLRLECTNLYRKGHFTSLELVPP  
STLTTTHLKAEP LKATHSSSTSWFRKPMTRAE LVAISSSEDEGNLRFVYELLSWVEEMQ  
MKLERAEWGNDLPSVELQLETQQHIHTSVEELGSSVKEARLYEGKMSQNFHTSYAETLGK  
LETQYCKLKETSSFRMRHLQSLHKFVSRATAELIWLNEKEEEEELAYDWSDNNSNISAKRN  
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HVKENTAYFQFFSDARELESFLRNLDQSIKRKYSCDHNTSLSRLEDLLQDSMDEKEQLIQ  
SKSSVASLVGRSKTIVQLKPRSPDHVLKNTISVKAVCDYRQIEITICKNDECVLEDNSQR  
TKWKVISPTGNEAMVPSVCFLIPPNKDAIEMASRVEQSYQKVMALWHQLHVNTKSLISW  
NYLRKDLDLVQTWNLEKLRSAPGECHQIMKNLQAHYEDFLQDSRDSVLFSVADRRLLEE  
EVEACKARFQHLMKSMENEDKEETVAKMYISELKNIRLLEEYEQRVVKRIQSLASSRTD  
RDAWQDNALRIAEQEHTQEDLQQLRSDLDVSMKCDNFLHQSPSSSVPTLRSELNLLVE  
KMDHVYGLSTVYLNKLKTVDVIVRSIQDAELLVKGYEIKLSQEEVVLADLSALEAHWSTL  
RHWLSDVKDKNSVFSVLDEEIAKAKVVAEQMSRLTPERNLDLERYQEKGSQLQERWHRVI  
AQLEIRQSELESIQEVLGDYRACHGTLIKWIEETTAQQEMMKPGAEDSRVLSEQLSQQT  
ALFAEIERNQTKLDQCCQKFSQYSTIVKDYELQLMTYKAFVESQQKSPGKRRRMLSSSDA  
ITQEFMDLRTRYTALVTLTTHVKYISDALRRLEEEKVVVEEKQEHVEKVKELLGWVST  
LARNTQKGATSSETKESTDIEKAILEQQVLSEELTTKKEQVSEAIKTSQIFLAKHGHKLS  
EKEKKQISEQLNALNKAYHDLCDGSANLQQLQSQLAHQTEQKECRAVAGVIDLGTVEIF  
PIFKAMQKGLLDQDTGLVLLESQVIMSGLIAPETGENLSLEEGIARNLINPQMYQQLREL  
QDALALISRLTESRGPLSVVEAIEKRIISETVGLKILEAHLATGGFSLSPSENCINLEEA  
FHQGLISAWLHVSLESYLRTSKNLDIPNTAEKIGLLDLMQRCIVHQESGFKLLPVKQLAG  
GMVSLKSGRKVSIFRAVQEGLIDRQVTVRLLEAQLFAGGIVDPRTGHRLTVEEAVRHNLI  
DQDMACAILIRQLQTGGIIDTVTGQRLTIDEAVSNDLVAKIALVILESLSFMGLLWPE  
SGEILPITDALEQGIVSTELAHKILSNRQHIKALFLPATTEILSWKKAIESGILDRDLAN  
NLKSICIPDVMPHMLADSAEQNINPGAAVLPCSKSHPKATASQSENLLFQLMTHSYINV  
QNGQRLLLLDKELMETLTSRDEYQTSPPKVVEIGHQRQKTPEGLQESANVKISGTFSSGW  
TVRLPEFQFSSQNKEYPDREDCTTEKGKKTTVETEDSSVENPEQDLFVEQKERNPNIDAL  
KVINKVKLEVQRQLIGTQREDQTAVSVRENASRGHLLTIPPAEAGVPLVVDKDVFSVET



PKKEHQPLRNTSFTCQNEQAHTLETEYIHDETGGSHIKPQSKKLQVQVKKTLGIKLELKS  
ETDGNVHPLDKKEMLKKTFLAKDDHKESQEAQNIAGGSMMMSEKTDEEDSGREIFLSCSH  
PLELLEEATLNLVLSAQLLDGGIFHEQTGQKLLLNEAISRGIVPSHTAVKLMEKLNMFQGF  
FDSQTCESLTTEEVINEGLMDEKLLHNVLMADKAISGVLDPRTQTLCVSKDAVTVGLLDK  
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RENQGEVILEVQETYCETSGKLPSEQVLQQPMNARVKSKEKREVIVEESIRTCKPAFLS  
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VSFDPARGLKLEEITVSRPDSKEVRYLEFSDRDLHHQGSKSDDKLCGTLKSEIATQELT  
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VDMLQAEQGRIASAEADREKITGQLESLESRWTELLSKAAARQKQLEDILVLAKQFHE  
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LKQTTGEEVLLIQEKLDGIKTRYADITVTSSKALRTLEQARQLATKFQSTYEELTGWLRE  
VEEELATSGGQSPTEGEIPQFQQRQKELKKEVMEHRLVLDTVNEVSRALELVPRAREG  
LDKLVSDANEQYKLVSDTIGQRVDEIDAAIQRSSQYEQAADAELAWVAETKRKLMALGP  
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EEMRQLRESIAEHKPHIDKLLKIGPQLKELNPEEGEMVEEKYQKAENMYAQIKEEVRQRA  
LALDEAVSQSTQITEFHDKIEPMLTLENLSSRLRMPPLIPAEVDKIRECISDNKSATVE  
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DVLELAEFWYDMAALLTTIKDQDIVHDLESPGIDPSIIKQVQEAETIKEETDGLHEE  
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LKKATDETDRIIREPLTELKHLWENLGEKIAHRQHKLEGALLALGQFQHALEELMSWT  
HTEELDAQRPIGDPKVIIEVLAKHHVLKNDVLAHQATVETVKNAGNELLESSAGDDAS  
SLRSRLEAMNQCWESVLQKTEEREQQLQSTLQQAQGFHSEIEDFLELTRMESQLSASKP  
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QKWHVVSCKMEERKSKLEEALNLATEFQNSLQEFINWLTAEQSLNIASPPSLILNTVLS  
QIEEHKVFANEVNAHRDQIIELDQTNQLKFLSQKQDVVLIKNLLSVQSRWEKVVQRSI  
ERGRSLDDARKRAKQFHEAWKKLIDWLEDAESHLDSELEISNDPDKIKLQLSKHKEFQKT  
LGGKQPVYDTTIRTEGRALKEKTLTPEDSQKLDNFLGEVRDKWDTVCGKSVERQHKEEAL  
LFSGQFMDALQALVDWLYKVEPQLAEDQPVHGDLDLVMNLMDAHKVFQKELGKRTGTVQV  
LKRSGRELIENSRRDRTWVGQLQELSTRWDTVCKLSVSKQSRLEQALKQAEVFRDTHVM  
LLEWLSEAEQTLRFRGALPDDTEALQSLIDTHKEFMKKVEEKRVVNSAVAMGEVILAVC  
HPDCITTIKHWITIIIRARFEEVLTWAKQHQRLLETALSELVANAELLEELLAWIQWAETT  
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RSGGRKSLSQPTPPMPILSQSEAKNPRINQLSARWQQVWLLALERQKRLNDALDRLEEL  
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EMTAVADIFDRDGDGYIDYYEFVAALHPNKDAYRPTTDADKIEDEVTRQVAQCKCAKRFQ  
VEQIGENKYRFGDSQQLRLVRI LRSTVMVRVGGGWMALDEFLVKNDPCRARGRTNIELRE  
KFILPEGASQGMTPFRSRGRRSKPSSRAASPTRSSSSASQSNHSCTSMPSPPATPASGTK  
VIPSSGSKLKRPTPTFHSSRTSLAGDTSNSSSPASTGAKTNRADPKKSASRPGSRAGSRA  
GSRASSRRGSDASDFDLLETQSACSDTSESSAAGGQGNRRGLNKPSKIPTMSKKTITAS  
PRTPGPKR

>sp|Q96LZ2|MAGBA\_HUMAN Melanoma-associated antigen B10 OS=Homo sapiens GN=MAGEB10 PE=2 SV=4

MPRGQKSKLRAREKRRQARGGLEDLIDALDILEEEEEPPPSASACLKDFVQSSLDGASNN  
PHGLREAQSTSTSATAASHTRHPEGVNDQMEERP ICTQDLEATDSFPRGPVDEKVIILVH  
YLLYKYQMKEPITKADMLRNV TQMSKSQFPVILSRASEHLELIFGLDLKEVEPNKHIYVL  
VNKLDLGCDAKLSDETGVPKTGLLMTVLGIIFTNGNCVAEEEVWKVFNTMGLYDGLIEHFM  
FGEPRKLLTKDLVKENYLEYQQVPNSDPPRYQFLWGPRHAETS KMKVLEFLAKVNDTAP  
SEFSN WYTEALQDEEERARARVAAKARVSATAGARSKVKSSKSSQLQ

>sp|Q9HCI5|MAGE1\_HUMAN Melanoma-associated antigen E1 OS=Homo sapiens GN=MAGEE1 PE=1 SV=2

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SEGPSTSVLPTS AEGPSTFVPPTISEASSASGQPTISEGPGTSVLPTPSEGLSTSGPPTI  
SKGLCTSVTLAASEGRNTSRPPTSSEEPSTSVPTASEVPSTSLPPTPGEGTSTSVPTA  
YEGPSTSVVPTPDEGPSTSVLPTPGEGPGTSVPLAATEGLSTSVQATPDEGPSTSVPTA  
TEGLSTPVPPTRDEGPSTSVPATPGEGPSTSVLPAASDGQSI SLVPTRGKGSSTSVPTA  
TEGLSTSVQPTAGEGSSTSVPTPGGLSTSVPTATEELSTSVPTPGEGPSTSVLPIP  
GEGSTSVPTASDGSDTSVPPTPGEGASTLVQPTAPDGPSSVLPNPGEGPSTLFSSSA  
SVDRNPSKCSLVLPSPRVTKASVDS DSEGPKGAEGPIEFEVLRDCESPNSISIMGLNTR  
VAITLKPQDPMEQNV AELLQFLLVKDQSKYPIRESEMREYIVKEYRNQFPEILRRAAAHL  
ECIFRFELRELDPEAHTYI LLNKLGPVPFEGLEESPNGPKMGLLMMILGQIFLNGNQA  
AEIW EMLWRMGVQRERRLSIFGNPKRLLSVEFVWQRYLDYRPVTDCKPVEYEFFWGP  
RSH LETTKMKILKFMAKIYNKDPMDWPEKYNEALEEDAARAF AEGWQALPHFRPPFEE  
AAAAE VPSPDSEVSSYSSKYAPHSWPESRLESKARKLVQLFLLMDSTKLPIPKGILYYI  
GRECS KVFPDLLNRAARTLNHVYGT ELVLDPRNHSYTLYNRREMEETEEIVDSPNR  
PGNNFLMQ VLSFIFIMGNHARES AVWAFRLGLGVQAGRKHVITCRYLSQRYIDSLR  
VPDSDPVQYEFV WGPRARLET SKMKALRYVARIHRKEPQDWPQQYREAMEDEANRAD  
VGHRQIFVHNFR

>sp|Q96QZ7|MAGI1\_HUMAN Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1 OS=Homo sapiens GN=MAGI1 PE=1 SV=3

MSKVIQKKNHWTSRVHECTVKRGPQGELGVTVLGGAEHGEFPYVGAVAAVEAAGLP  
GGGE GPRLGEGELLLEVQGVRSGLPRYDVLGVIDSCKEAVTFKAVRQGGRLNKDLRH  
FLNQRF QKGSPDHELQQTIRDNL YRHAVPCTTRSPREGEVPGVDYNFLTVKEFLDLE  
QSGTLLEVGYEGNYGTPKPPSQPVSGKVITTDALHSLQSGSKQSTPKRTKSYNDM  
QNAGIVHAENEE EDDVPEMNSSFTADSGEQEEHTLQETALPPVNSSI AAPITDPSQ  
KFPQYLPLSAEDNLG PLPENWEMAYTENGEVYFIDHNTKTTSWLDPRCLNKQKPLEE  
CEDDEGVHTEELDSELE LPAGWEKIEDPVYGIYYVDHINRKTQYENPVLEAKRKKQ  
LEQQQQQQQQQQQQQQQQQQ QTEWTE DH SALVPPVIPNHPPSNPEPAREVPLQ  
GKPFTRNPSELKGKFIHTKLRKSSR GFGFTVVGDEPDEFLQIKSLVLDGPAALD  
GKMETGDVIVSVNDTCVLGHTHAQVVKIFQ SIPIGASVDLELCRGYPLFPD  
DDPNTSLVTSVAILDKEPIIVNGQETYDSPASHSSKTG KVNGMKDARSPSPAD  
VASNSSHGYPNDTVSLASSIATQPELITVHIVKGP MFGFTIADS PGGGGQ  
RVKQIVDSPRCRLKEGD L IVEVNKKNVQALTHNQVVDMLVECPKGSEVTLLVQ  
RGGLPVPKKSPKSQPLERKDSQNSSQHSVSSHRS LHTASPSHSTQVLP  
EFPAPAEQAQPDQ TDSSGQKKPD PFKIWAQSRSMYENRPMSPASGLSKGERERE  
INSTNFGECPIPDYQEQ DIFLWRKETGFGFRILGGNEPGEPIYIGHIVPLGA  
ADTDGRLRSGDELICVDGTPVIGKS HQLVVQLMQAAKQGHVNLTVRRKVV  
FAVPKTENEVPSPASSHHSSNQPASL TEEKRTPQ GSQNSLNTVSSGSGST  
SGIGSGGGGGSGVVSTVVQPYDVEIRRGENEGFGFVIVSSVSRP

EAGTTFAGNACVAMPHKIGRIIEGSPADRCGKLKVGDRILAVNGCSITNKSHSDIVNLIK  
EAGNTVTLRIIPGDESSNATLLTNAEKIATITTTHTPSQQGTQETRNTTKPKQESQFEFK  
APQATQEQDFYTVLELARGAKGFGFSLRGGREYNMDLYVLRLAEDGPAERCGKMRIGDEIL  
EINGETTKNMKHSRAIELIKNGGRRVRLFLKRGDGSVPEYDPSSDRHGPAATGPQGVPEVR  
AGPDRRQHPSLESSYPPDLHKSSPHGEKRAHARDPKGSREYSRQPNEHHTWNGTSRKPDS  
GACRPKDRAPEGRDAQAERAAAANGPKRRSPEKRREGTRSADNTLERREKHEKRRDVSP  
ERRRERSPTRRRDGSPSRRRSLERLLEQRRSPERRRGSPERRAKSTDRRRRASPERRR  
ERSLDKRNREDRASHREEREEANLKQDAGRSSRHPPEQRRRPYKECSTDLSI

>sp|Q3KP22|MAJIN\_HUMAN Membrane-anchored junction protein OS=Homo sapiens GN=MAJIN PE=2  
SV=2

MSLKPFYTPFPETRFLHAGPNVYKFKIRYGKSIRGEEIENKEVITQELEVPEKKAVGAV  
MRKRKHMDPSSSPRPLDRAKIGTSSQGSPSKKKPPVETRRNRERKTQQGLQETLASDIT  
DVQKQDSEWGHSLPGRIVPPLQHNSPPPKERAATGFFGFLSSLFPFRYFFRKSSHS

>sp|Q9BXY0|MAK16\_HUMAN Protein MAK16 homolog OS=Homo sapiens GN=MAK16 PE=1 SV=2

MQSDDVIWDTLGNGQFCFSKIRTKTQSFCEYSLTGLCNRSSCPLANSQYATIKEEKGQ  
CYLYMKVIERAAFPRLWERVRLSKNYEKALEQIDENLIYWPFRIRHKCKQRFTKITQYL  
IRIRKLTLLKRRKLVPLSKKVERREKRREEKALIAAQLDNAIEKELLERLQDQTYGDIYN  
FPIHAFDKALEQQAESDSDTEEKDDDDDEEDVGKREFVEDGEVDESISDFEDMDKL  
DASDEDQDGKSSSEEEEEKALSAKHGKMPRLGRLQRKRAYVEIEYEQETEPVAKAKTT

>sp|Q8IZL2|MAML2\_HUMAN Mastermind-like protein 2 OS=Homo sapiens GN=MAML2 PE=1 SV=2

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GRAESSDRERESTLQLLSLVQHGGQARKAGKHTKATATAATTTAPPPPAAPPAASQAAA  
TAAPPPPPDYHHHHQHLNNSNNGSGGINGEQPPASTPGDQRNSALIALQGSLLKRRQ  
VVNLSPANSKRPNFGVDNSFLDIKRIRVGENLSAGQGGLQINNGQSQIMSGTLPMSQAPL  
RKTNTLPSHTSPGNGLFNMGLKEVKKEPGETLSCSKHMDGQMTQENIFPNRYGDDPGEQ  
LMDPELQELFNELTNISVPPMSDELENMINATIKQDDPFNIDLGQSQSRSTPRPSLPME  
KIVIKSEYSPGLTQGPSGSPQLRPPSAGPAFSMANSALSTSSPIPSVPQSAQPQTGSGA  
SRALPSWQEVSHAQQLKQIAANRQQHARMQQHQHQPNTNWSALPSSAGPSPGPFGEKI  
PSPSFGQQTFSPPSPMPGVAGGSGQSKVMANYMYKAGPSAQQGHLDVLMQKPKQDLSRS  
FINNPHPAMEPRQNTKPLFHFNSDQANQQMPSVLPSQNKPSLLHYTQQQQQQQQQQQQQ  
QQQQQQQQQQQQQQQQQQSSISAQQQQQQSSISAQQQQQQQQQQQQQQQQQQQQQQQ  
QQQQQQSSQPAQSLPSQLLRSPLPLQQKLLQMQNQPIAGMGYQVSQQQRQDQHSVVG  
QNTGPSPPNPNCSNPNTGSGYMNSQQSLLNQQLMGKKQTLQRQIMEQKQQLLQQQMLAD  
AEKIAPQDQINRHLSRPPPDYKDQRRNVGNMQPTAQYSGGSSTISLNSNQALANPVSTHT  
ILTPNSSLLSTSHGTRMPSLSTAVQNMGMYNLPCNQPNYVTSGMNQLTQQRNPKQLL  
ANQNNPMMPRPPTLGPSSNNNVATFGAGSVGNSQQLRPNLTHSMASMPPTQTSNVMITSN  
TTAPNWSAQEGTSKQREALTSAGVRFPPTGTPAAYTPNQSLQAVGSQQFSQRAVAPPNQL  
TPAVQMRPMNQMSQTLNGQTMGPLRGLNLRPNQLSTQILPNLNQSGTGLNQSRGTGINQPP  
SLTPSNFSPNQSSRAFGQTDHSSDLAFDFLSQQNDNMGPALNSDADFIDSLLKTEPGND  
DWMKDINLDEILGNS

>sp|A6NHS7|MANS4\_HUMAN MANSC domain-containing protein 4 OS=Homo sapiens GN=MANS4 PE=3  
SV=3

MHVAEAVNVILLLSMGWTSLSLCSPTIFYRDCWIRRFPGLLINLEESQKLGAQFLKYYS  
ESTGQKCSRSCCLRKDVSCNLAVFYHSPIHNDINCLHVCPTLESCILEPGTSAILYNIT

DGIDPDLLVFEQSPTYLNTRSSSNRWDLRLILKAMNLDKQTTTNGMLPSTEAPSSSTTHQ  
DLVVNTNSTSYSKELTTDFWARFTSLNESITTKINKVSPSTDFISNPDNKTISPFFEPID  
TKLSHMPVPPGLNSSKQLLNKTGYNSRNHTSANEDSVTSKTLVLSVALCTSVIFLGC  
CIVILASGCCGKQGGYKPGQRKSGSLQIKNRNHMKENSS

>sp|Q9UEW3|MARCO\_HUMAN Macrophage receptor MARCO OS=Homo sapiens GN=MARCO PE=1 SV=1

MRNKKILKEDELLSETQQAAPHQIAMEPFEINVPKPKRRNGVNFSLAVVVIYLILLTAGA  
GLLVVQVLNLQARLRVLEMYFLNDTLAAEDSPSFSLLQSAHPGEHLAQGASRLQVLQAQL  
TWVRVSHEHLLQRVDNFTQNPGMFRIKGEQGAPGLQGHKGAMGMPGAPGPPGPPAEKGAK  
GAMGRDGATGPSGPQPPGVKGEAGLQGPQGAPGKQATGTPGPQGEKSGKGDGGLIGPK  
GETGKTGEKGDGLPGSKGDRGMKGDAGVMGPPGAQSGKGDGFRPGPPGLAGFPGAQGDQ  
GQPGLQGVPPGAVGHPGAKGEPGSAGSPGRAGLPGSPGSPGATGLKSGKGDGLQGQQ  
GRKGESGVPGPAGVKGEQSGPLAGPKGAPGQAGQKGDQGVKGSSGEQGVKGEKGERGEN  
SVSVRIVGSSNRGRAEVYSGTWGTICDDEWQNSDAIVFCRMLGYSKGRALYKVGAGTGQ  
IWLNDNVQCRGTESTLWSCTKNSWGHDCSHEEDAGVECSV

>sp|P29966|MARCS\_HUMAN Myristoylated alanine-rich C-kinase substrate OS=Homo sapiens  
GN=MARCKS PE=1 SV=4

MGAQFSKTAAKGEEAAERPGEAAVASSPSKANGQENGHVKNVDASPAAAESGAKEELQA  
NGSAPAADKEEPAAAGSGAASPSAAEKGEPAAAAAPEAGASPVEKEAPAEGEAAEPGSPT  
AAEGEAAASAASSTSSPKAEDGATPSPSNETPKKKKKRFSFKKSFKLSGFSFKKNKKEAGE  
GGAEAEAPAAEGGKDEAAGGAAAAAAEAGAASGEQAAAPGEEAAAGEGAAGGDPQEAQPK  
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PAAAAASSACAAPSQEAQPECSPEAPPAAEAE

>sp|O00187|MASP2\_HUMAN Mannan-binding lectin serine protease 2 OS=Homo sapiens GN=MASP2  
PE=1 SV=4

MRLLTLLGLLCGSVATPLGPKWPEPVFGRLASPGFPGEYANDQERRWTLTAPPGYRLRLY  
FTHFDLELSHLCEYDFVKLSSGAKVLATLCGQESTDTERAPGKDTFYSLGSSLDITFRSD  
YSNEKPFTGFEAFYAAEDIDECQVAPGEAPTCDHHCHNHLGGFYCSCRAGYVLHRNKRTC  
SALCSGGVFTQSRGELSPEYPRYPKLSSCTYSISLEEGFSVILDFVESFDVETHPETL  
CPYDFLKIQTDRREHGFPGKTLPHRIETKSNVTITFTVDES GDHTGWKIHYTSTAQPC  
PYMAPPNGHVSPVQAKYILKDSFSIFCETGYELLQGHLPKLSFTAVCQKDGSDWRPMPA  
CSIVDCGPPDDLPSGRVEYITGPGVTYKAVIQYSCEETFYTMKVNKGKYVCEADGFWTS  
SKGEKSLPVCEPVCGLSARTTGGRIYGGQKAKPGDFPWQVLILGGTTAAGALLYDNWVLT  
AAHAVYEQKHDASALDIRMGTCLKRLSPHYTQAWSEAVFIHEGYTHDAGFDNDIALIKLNN  
KVVINSNITPICLPRKEAESFMRTDDIGTASGWGLTQRGFLARNLMYVDIPIVDHQKCTA  
AYEKPPYPRGSVTANMLCAGLESGGKDSGRGDSGGALVFLDSETERWFVGGIVSWGSMNC  
GEAGQYGVYTKVINIYIPWIENIISDF

>sp|Q13394|MB21L\_HUMAN Protein mab-21-like 1 OS=Homo sapiens GN=MAB21L1 PE=1 SV=1

MIAAQAKLVYHLNKYYNEKCQARKAAIAKTIREVCKVSDVLKEVEVQEPRFISSLNEMD  
NRYEGLEVISPTEFEVLYLNQMGVFNFDGSLPGCAVLKLSGGRKRSMSLWVEFITAS  
GYLSARKIRSRFQTLVAQAVDKCSYRDVVKMVADTSEVKLRIRDRYVVQITPAFKCTGIW  
PRSAAHWPLPHIPWPGPNRVAEVKAEGFNLLSKECHSLAGKQSSAESDAWVLQFAEAENR  
LQMGGRCKKCLSILKTLRDRHLELPGQPLNNYHMKTLVSYECEKHPRESDWDESLGDRL  
NGILLQLISCLQCRRCPHYFLPNLDLFQGKPHSALENAAKQTWRLAREILTNPKSLEKL

>sp|Q8WWY6|MB3L1\_HUMAN Methyl-CpG-binding domain protein 3-like 1 OS=Homo sapiens  
GN=MBD3L1 PE=2 SV=2

MAKSSQQRKQRDCVNQCKSKPGLSTSIPLRMSSYTFKRPVTRITPHPGNEVRYHQWEESLE  
KPQQVCWQRRRLQGLQAYSSAGELSSTLDLANTLQKLVPSYTGGSLLDLASGLEHSCMP  
HLACSSDAVEIIPAEGVGISQLLCKQFLVTEEDIRKQEGVKVTVRERLAIALIADGLANE  
AEKVRDQEGRPEKR

>sp|A6NJ08|MB3L5\_HUMAN Putative methyl-CpG-binding domain protein 3-like 5 OS=Homo sapiens  
GN=MBD3L5 PE=5 SV=1

MGEPFTSFPSPPVLGKLRNMPWALQKKREIHMAKAHRRRAARSALPMRLTSCIFRRP  
VTRIRSHPDNQVRRRKGDHLEKPPQLCAYRRLQALQPCSSQEGSSPLHLESVLSILAP  
GTAGESLDRAGAERVRIPEPTPGRFPAVAGGPTPGMGCQLPPPLSGQLVTPADIRRQAR  
RVKKARERLAKALQADRLARQAEMLTGG

>sp|O95983|MBD3\_HUMAN Methyl-CpG-binding domain protein 3 OS=Homo sapiens GN=MBD3 PE=1  
SV=1

MERKRWECPALPQGWEREVPRRSGLSAGHRDVFYSPSGKKFRSKPQLARYLGGSMDLS  
TFDFRTGKMLMSKMNSRQVRVYDSSNQVGKPDNLTPVRQTASIFKQPVTKITNHPS  
NKVKSDDPQKAVDQPRQLFEWKLSGLNAFDIAEELVKTMDLPGKLQGVGPGCTDETLISA  
IASALHTSTMPITGQLSAAVEKNPGVWLNTTQPLCKAFMVTDEDIRKQEELVQQVRKRLE  
EALMADMLAHVEELARDGEAPLDKACAEDDDEDEEEEEEPDPDPEMEHV

>sp|Q6ZWT7|MBOA2\_HUMAN Lysophospholipid acyltransferase 2 OS=Homo sapiens GN=MBOA2 PE=2  
SV=2

MATTSTTGSTLLQPLSNAVQLPIDQVNFVVCQLFALLAAIWFRTYLHSSKTSSFIRHVVA  
TLLGLYLALFCGWYALHFLVQSGISYIMIIIGVENMHNCFVFALGYLTVQVTRVYI  
FDYQQYSADFGSPMMIITQKITSLACEIHDGMFRKDEELTSSQRDLAVRRMPSLLEYLSY  
NCNFMGILAGPLCSYKDYITFIEGRSYHITQSGENGKEETQYERTEPSPNTAVVQKLLVC  
GLSLLFHLTICTTLPEYNIDEHFQATASWPTKIIYLYISLLAARPKYFAWTLADAINN  
AAGFGFRGYDENGAAARWDLISNLRIQQIEMSTSFKMFLDNWNIQTALWLKRVCYERTSFS  
PTIQTFILSAIWHGVYPGYLFTLTGVLMTLAARAMRNFRHYFIEPSQLKLFYDVITWI  
VTQVAISYTVVPFVLLSIKPSLTFYSSWYYCLHILGILVLLLLPVKKTQRRKNTHENIQL  
SQSKKFDEGENSLGQNSFSTTNNVCNQNEIASRHSSLKQ

>sp|Q96N66|MBOA7\_HUMAN Lysophospholipid acyltransferase 7 OS=Homo sapiens GN=MBOA7 PE=1  
SV=2

MSPEEWTYLVLLISIPIGFLFKAGPGLKRWGAAVGLGLTLFTCGPHTLHSLVTILGT  
WALIQAQPCSCHALALAWTFSYLLFFRALSLLGLPTPTPFTNAVQLLLTLKLVSLASEVQ  
DLHLAQRKEMASGFSKGPTLGLLPDVPSLMEITLSYSYCYVGIMTGPFRRYRTYLDWLEQP  
FPGAVPSLRPLRRAPAPLFGLLFLLSSHLFPLEAVREDAFYARPLPARLFYMIPVFFA  
FRMRFYVAWIAAECGCIAAGFGAYPVAAKARAGGGPTLQCPPSSPEKAASLEYDYETIR  
NIDCYSTDFCVRVRDGMRYWNMTVQWWLAQYIYKSAPARSYVLRSAWTMLLSAYWHGLHP  
GYLSFLTIPCLAAEGRLESALRGRLSPGGQKAWDWWHWFVKMAYDYMCMGFVLLSLA  
DTLRYWASIYFCIHFLAALGLGLALGGGSPSRRKAASQPTSLAPEKLREE

>sp|P02686|MBP\_HUMAN Myelin basic protein OS=Homo sapiens GN=MBP PE=1 SV=3

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNGTSSQ  
DTAVTDSKRTADPKNAWQDAHPADPGSRPHLIRLFSRDAPGREDNTFKDRPSESEDELQTI  
QEDSAATSESLDVMASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFG

GDRGAPKRGSGKDSHHPARTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQKGK  
RGLSLSRFSWGAEGQRPFGYGGRASDYKSAHKGFKGVDAGTLSKIFKLGGDRSRSRSGSP  
MARR

>sp|043462|MBTP2\_HUMAN Membrane-bound transcription factor site-2 protease OS=Homo sapiens GN=MBTPS2 PE=1 SV=1

MIPVSLVVVVVGWTVVYLTDLVLKSSVYFKHSYEDWLENNGLSISPFHIRWQTAVFNRA  
FYSWGRRKARMLYQWFNFGMVFGVIAMFSSFFLLGKTLMQTLAQMMAADSPSSYSSSSSSSS  
SSSSSSSSSSSSSSSLHNEQLQVVVPGINLPVNQLTYFFTAVLISGVVHEIGHGIAAI  
REQVRNFGFGIFLFIYPGAFVDLFTTHLQLISPVQQLRIFCAGIWHNFVLALLGILALV  
LLPVILLPFYYTGVGVLITEVAEDSPAIGPRGLFVGDLVTHLQDCPVTNVQDWNECLDTI  
AYEPQIGYCISASTLQQLSFPVRAYKRLDGSCECCNNHSLTDVCFSYRNNFNKRLHTCLP  
ARKAVEATQVCRNTKDCKKSSSSSFCIIPSLETHTRLIKVKHPPQIDMLYVGHPLHLHYT  
VSITSFIPRFNFLSIDLPVVVETFVKYLISLSGALAIVNAVPCFALDGQWILNSFLDATL  
TSVIGDNDVKDLIGFFILLGGSVLLAANVTGLWMVTAR

>sp|P32245|MC4R\_HUMAN Melanocortin receptor 4 OS=Homo sapiens GN=MC4R PE=1 SV=2

MVNSTHRGMHTSLHLWNRSSYLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL  
ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN  
IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACVTS  
GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN  
MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL  
IYALRSQELRKTFKEIICCYPLGGLCDLSSRY

>sp|P59942|MCCD1\_HUMAN Mitochondrial coiled-coil domain protein 1 OS=Homo sapiens GN=MCCD1 PE=2 SV=3

MVLPLPWSRYHFLRLLLPWSLAPQGSHGCCSQNPKASMEEQTSRGNKGMTSPPRGPG  
THRTAELARAEELLEQQLELYQALLEGQEGAWEAQALVLKIQKLKEQMRRHQESLGGA

>sp|Q8IZK6|MCLN2\_HUMAN Mucolipin-2 OS=Homo sapiens GN=MCLN2 PE=2 SV=2

MARQPYRFPQARIPERGSQVFRITVRNAMAHRDSEMKEECLREDLKIFYFMSPCEKYRARR  
QIPWKLGLQILKIVMTTQLVRFGSLNQLVFAFKEDNTVAFKHLFLKGYSGTDEDDYSCS  
VYTQEDAYESIFFAINQYHQLKDITLGTLYGENEDNRIGLKVKCKQHYKKGTMFPSNETL  
NIDNDVELDCVQLDLQDLSSKPPDWKNSFFRLEFYRLLQVEISFHLKGIDLQTIHSREL  
PDCYVFQNTIIFDNKAHSGKIKIYFSDAKIEECKDLNIFGSTQKNAQYVLFDAFVIVI  
CLASLILCTRSIVLALRLRKRFLNFFLEKYKRPVCDTDQWEFINGWYVLVIISDLMTIIG  
SILKMEIKAKNLTNLDLCSIFLGTSTLLVWGVIRYLYGFQAYNVLILTMQASLPKVLRF  
CACAGMIYLYGTFCGWIVLGPYHDKFENLNTVAECLFSLVNGDDMFATFAQIQKSILVW  
LFSRLYLYSFISLFIYMILSLFIALITDSYDTIKKFQQNGFPETDLQEFLKECSSKEEYQ  
KESSAFLSCICRRRRKRSDDHLIPIS

>sp|P49736|MCM2\_HUMAN DNA replication licensing factor MCM2 OS=Homo sapiens GN=MCM2 PE=1 SV=4

MAESSESFTMASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTE  
GPLEEEEDGEELIGDGMERDYRAIPELDAYEAEGALDDEDEVEELTASQREAAERAMRQR  
DREAGRGLGRMRGLLYDSDEEDEERPARKRRQVERATEDGEEDEEMIESIENLEDLKGH  
SVREWVSMAGPRLEIHHRFKNFLRTHVDSHGHNVFKERISDMCKENRESLVVNYEDLAAR  
EHVLAYFLPEAPAEELLQIFDEAALEVVLAMYPKYDRITNHIHVRISHLPLVEELRSLRQL  
HLNQLIRTSGVVTSGTVLPQLSMVKYCNKCNFVLGPFCQSQNQEVKPGSCPECQSAGP

FEVNMEETIYQNYQIRIRIQESPGKVAAGRLPRSKDAILLADLVDSCPGDEIELTGIYHN  
NYDGS�NTANGFPVFATVILANHVAKKDNKVAVGELTDEDVKMITSLSKDQQIGEKIFAS  
IAPSIYGHEDIKRLALALFGGEPKNPGGKHKVRGDINVLLCGDPGTAKSQFLKYIEKVS  
SRAIFTTGQASAVGLTAYVQRHPVSREWLEAGALVLADRGVCLIDEFDKMNDQDRTSI  
HEAMEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDIL  
CVVRDTPVDPVQDEMLARFVVGSHVRHHPSNKEEEGLANGSAAEPAMPNTYGVPEPLPQEV  
KKYIIYAKERVHPKLNQMDQDKVAKMYSDLRKESMATGSIPITVRHIESMIRMAEAHARI  
HLRDYVIEDDVNMAIRVMLESFIDTQKFSVMRSMRKTFARYLSFRDNNELLLFILKQLV  
AEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNSAFYDSELFRMNKFSHDLKRMIL  
LQQF

>sp|060244|MED14\_HUMAN Mediator of RNA polymerase II transcription subunit 14 OS=Homo  
sapiens GN=MED14 PE=1 SV=2

MAPVQLENHQLVPPGGGGGGSGPPSAPAPPPGA AVAAAAAASPGYRLSTLIEFLH  
RAYSELMVLTDLLPRKSDVERKIEIVQFASRTRQLFVRLALVKWANNAGKVEKCAMISS  
FLDQQAILFVDTADRLASLARDALVHARLPSFAIPYAIDVLTGSGYRLPTCIRDKIIPP  
DPITKIEKQATLHQLNQILRHRLVTTDLPPQLANLTVANGRVKFRVEGEFEATLTMGDD  
PDVPWRLLKLEILVEDKETGDGRALVHSMQISFIHQLVQSRLFADEKPLQDMYNCLHSFC  
LSLQLEVLHSQTLMLIRERWGLVQVERYHAGKCLSLSVWNQVLRKTGTASVHKVTIK  
IDENDVSKPLQIFHDPPLPASDSKLVERAMKIDHLSIEKLLIDSVHARAHQKLQELKAIL  
RGFNANENSSIETALPALVVPILPECGNSECLHIFVDLHSGMFQLMLYGLDQATLDDMEK  
SVNDDMKRIIPWIIQQLKFWLGQQRCKQSIKHLPTISSETLQLSNYSTHPIGNLSKNKLF  
KLTRL PQYYIVVEMLEVPNKPTQLSYKYYFMSVNAADREDSPAMALLLQQFKENIQDLVF  
RTKTGKQTRTNAKRKLSDDPCPVESKKTTRAGEMCAFNKVLAHFVAMCDTNMPFVGLRLE  
LSNLEIPHQGVQVEGDGFSHAIRLLKIPPCGITEETQKALDRSLDCTFRLQGRNNRTW  
VAELVFANCPLNGTSTREQGPSRHVYLTyenLLSEPVGGRKVVEMFLNDWNSIARLYECV  
LEFARSLPDIPAHLNIFSEVRVYNYRKLILCYGTTKGSSISIQWNSIHQKFHISLGTVGP  
NSGCSNCHNTILHQLQEMFNKTPNVVQLLQVLFDTQAPLNAINKLPTVPMLGLTQRTNTA  
YQCFSILPQSSTHIRLAFRNMYCIDIYCRSRGVVAIRDGAYSLFDNSKLVEGFYPAPGLK  
TFLNMFVDSNQDARRRSVNEDNPPSPIGGDMMDSLISQLQPPPPQPPFPKQPGTSGAYP  
LTSPPTS YHSTVNQSPSMMHTQSPGNLHAASSPSGALRAPSPASFVPTPPSSHGISIGP  
GASFASPHGTLDPSSPYTMVSPSGRAGNWPQSPQVSGPSAARMPGMS PANPSLHSPVPD  
ASHSPRAGTSSQTMTNMPPRKLPQRSWAASIPTILTHSALNILLPSPTPGLVPGLAG  
SYLCSPLERFLGSMVIMRRHLQRIIQQETLQLINSNEPGVIMFKTDALKCRVALSPKTNQT  
LQLKVT PENAGQWKPDQLVLEKFFETRVAGPPFKANTLIAFTKLLGAPTHILRDCVHIM  
KLELFPDQATQLKWNVQFCLTIPPSAPPIAPPGTPAVVLKSKMLFFLQLTQKTSVPPQEP  
VSIIVPIIYDMASGTTQQADIPRQQNSSVAAPMMVSNILKRAEMNPPRQGECTIFAAVR  
DLMANLTLPPGGRP

>sp|Q9NVC6|MED17\_HUMAN Mediator of RNA polymerase II transcription subunit 17 OS=Homo  
sapiens GN=MED17 PE=1 SV=2

MSGVRAVRISIESACEKQVHEVGLDGTETYLPLSMSQNLARLAQRIDFSQSGS EEEEE  
AGTEGDAQEWPGAGSSADQDDEEGVVKFQPSLWPWDSVRNNLRSALTEMCVLYDVLSIVR  
DKKFMTLDPVSQDALPPKQNPQTLQLISKKSLAGAAQILLKGAERLTKSVTENQENKLQ  
RDFNSELLRLRQHWKLRKVGDKILGDLSYRSAGSLFPHHGTFEVIKNTDLDLKKIPEDY  
CPLDVQIPSDLEGSAYIKVSIQKQAPDIGDLGTVNLFKRPLPKSKPGSPHWQTKLEAAQN



VLLCKEIFAQLSREAVQIKSQVPHIVVNQIISQPFPSLQLSISLCHSSNDKKSQKFATE  
KQCPEDHLYVLEHNLHLLIREFHKQTLSSIMPHPASAPFGHKRMRLSGPQAFDKNEINS  
LQSSEGLLEKI IKQAKHIFLRSRAAATIDSLASRIEDPQIQAHWSNINDVYESSVKVLIT  
SQGYEQICKSIQLQLNIGVEQIRVVHRDGRVITLSYQEQLQDFLLSQMSQHQVHAVQQL  
AKVMGWQVLSFSNVHGLGPIESIGNASAITVASPSGDYAISVRNGPESGSKIMVQFPRNQ  
CKDLPKSDVLQDNKWSHLRGPFEVQWNKMEGRNFVYKMELLSALSPCLL

>sp|Q9H944|MED20\_HUMAN Mediator of RNA polymerase II transcription subunit 20 OS=Homo sapiens GN=MED20 PE=1 SV=1

MGVTCVSQMPVAEGKSVQQTVELLTKLEMLGAEKQGTFCVDCETYHTAASTLGSQGQTG  
KLMYVMHNSEYPLSCFALFENGPCIADTNFDVLMVKLGFFQSAKASKIETRGRTRYQYC  
DFLVKVGTVTMGPSARGISVEVEYGPCVVASDCWSLLLEFLQSFLGSHTPGAPAVFGNRH  
DAVYGPADTMVQYMELFNKIRKQQQVPVAGIR

>sp|O75586|MED6\_HUMAN Mediator of RNA polymerase II transcription subunit 6 OS=Homo sapiens GN=MED6 PE=1 SV=2

MAAVDIRDNLLGISWVDSSWIPILNSGSVLDYFSERSNPFYDRTCNEVVQMQLTLEHL  
NQMVGIEYILLHAQEPILFIIRKQQRQSPAQVIPLADYIIAGVIYQAPDLGSVINSRVL  
TAVHGIQSAFDEAMSYCRYHPSKGYWWHFKDHEEQDKVRPKAKRKEEPSSIFQRQRVDAL  
LLDLRQKFPPKFVQLKPGKEKPPVDQTKKEAEPIPETVKPEEKETTKNVQQTVSAKGPPE  
KRMRLQ

>sp|Q96G25|MED8\_HUMAN Mediator of RNA polymerase II transcription subunit 8 OS=Homo sapiens GN=MED8 PE=1 SV=2

MQREEKQLEASLDALLSQVADLKNSLGSFICKLENEYGRLTWPSVLDSFALLSGQLNTLN  
KVLKHEKTPLFRNQV I IPLVLSPPDRDEDLMRQTEGRVPVFSHEVVPDHLRTKPDPEVEEQ  
EKQLTTDAARIGADAAQKQIQSLNKMCSNLEKISKEERESESGGLRPNKQTFNPTDTNA  
LVA AVAFGKGLSNWRPSGSSGPGAGQPGAGTILAGTSGLQQVQMAGAPSQQQPMLSGVQ  
MAQAGQPGKMPSGIKTNIKSASMPYQR

>sp|Q02078|MEF2A\_HUMAN Myocyte-specific enhancer factor 2A OS=Homo sapiens GN=MEF2A PE=1 SV=1

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSSNKLQYAST  
DMDKVLLKYTEYNEPHESRTNSDIVEALNKKHEHRGCDSPDPDTSYVLTPHTEEKYKKINE  
EFDNMMRNHKIAPGLPPQNFSMSVTVPTSPNALSYTNPGSSLVSPSLAASSTLTDSSML  
SPPQTTLHRNVSPGAPQRPSTGNAGGMLSTTDLTVPNGAGSSPVGNFVNSRASPNLIG  
ATGANS LGKMPTKSPPPPGGNGLMNSRKPDLRVVIPPSSKGMMPLSEEEEELELNTQR  
ISSSQATQPLATPVVSVTTPSLPPQGLVYSAMPTAYNTDYSLTADLSALQGFNSPGMLS  
LGQVSAWQQHHLGQAALSSLVAGGQLSQGSNLSINTNQNISIKSEPISPPRDRMTPSGFQ  
QQQQQQQQQQPPPPQPQPQPQPQPRQEMGRSPVDSLSSSSSSYDGS DREDPRGDFHSP  
IVLGRPPNTEDRESPSVKRMRMDAWVT

>sp|Q14814|MEF2D\_HUMAN Myocyte-specific enhancer factor 2D OS=Homo sapiens GN=MEF2D PE=1 SV=1

MGRKKIQIQRITDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNHSNKLQYAST  
DMDKVLLKYTEYNEPHESRTNADI IETLRKKGFNGCDSPEPDGEDSLEQSPLEDKYRRA  
SEELDGLFRRYGSTVPAPNFAMPVTVPVSNQSSLQFSNPSGSLVTPSLVTSSSLTDPRLLS  
PQPALQRNSVSPGLPQRPASAGAMLGGDLNSANGACPSPVGNQYVSARASPGLLPVANG  
NSLNKVIPAKSPPPPTHSTQLGAPSRKPDLRVITSQAGKGLMHHLTEDHLDLNNQRLGV



IPGHYDLLPVRQSPANGPSQDKQS

>sp|AOA087WXM9|MEIKN\_HUMAN Meiosis-specific kinetochore protein OS=Homo sapiens GN=MEIKIN  
PE=2 SV=2

MWPLRVYTRKKREGQRLNLTPTPDLGSPAKAEAPPGSKRKGVHGLSKIAEKAERSRQGG  
SGSGPFPRLGVTGEKSLQENRSSEDTQDEKIASLRESVTDDLQVDSSSSNSELVSGLSL  
HHGMASLLSYSVTDSYAEYKSFEESFPSPELFRKSDYLDWECPNLEEHMQWKNSTLLDT  
SKAVAIEKAPQFSNVSAIFSTSSSEDYQKCHRKTVMTVADQNVSPKAKCASNSEDNAACE  
ILLAECTCPSTPEKTKKKKTNSSTPGKKNRGLLTSTPSSETAGFVIDLSSVQKASFEELF  
PNVSNYVNSNEIVPVSSLQENSSNEFPANASEICCIIRTSPGTRQVKNKGVIVKKKKYSL  
PKDTPQDIIKMA

>sp|A2RUB1|MEIOC\_HUMAN Meiosis-specific coiled-coil domain-containing protein MEIOC  
OS=Homo sapiens GN=MEIOC PE=2 SV=3

MEVRRGDTCPRPHPSGLREEGLEPKVAFPGGANRCWNLGADAGSRLTDVFGSVMLTGSAS  
FYDCYTSQSEDNVDLRQTYTPFSSTEYSSSVDSLFCAWSTYGDDIKQPSNSQISIKNR  
IQTERNDYGSETDLYGLVSNILEEQDKSQPYFAEGTCSSNLKSVWPMNSTRFADHHDLLT  
ETKRPIDTVISQQAFYSDESVSAMEKQYLRNSNLTPQQKIDELHHGFTGLDLEEQWMYPS  
RSDHSNCHNIQTNDTAKTTFQEYPLIKNCFTPQTGLSDIMKESGVDIYHYGRDRICKGL  
EAPLQKRAEMFLSQFNRYNENVDYCRYPEYVHPNKAHLNCSNFSVQDSKKLANGTPET  
PTVEADTYTKLFQVKPANQKKMEETIPDQQNFTFPKTTPHLTEKQFAKEAVFTADFG LTS  
EYGLKPHTACPANDFANVTEKQQAQPPHSEYFKSVNLLSNSATSSGGINLNRPTWMN  
VQTKNNTPIPYRNQNLMLKLSHLSAASKGSNHSSDFPQLSSTNLTPNSNLFQKYCQENP  
SAFSSFDYSYGAERTQSVNHIEGLTKPGEENLFKLVTDKKIKQPNGFCDNYSQKYGII  
ENVNKHNFQAKPQSGHYDPEEGPKHLDGLSQNTYQDLLESQGHNSHRTRGGDNSRVNRT  
QVSCFSNNYMMGDLRHNQCFQQLGSNGFPLRSTHPFGHSVPLDSYDLLSYDDL SHLYP  
YFNMMYGDNSFSGLMPTFGFQRP IKTRSGPASELHIRLEECCEQWRALEKERKKTELALA  
KNYPGKKVSSTNNTVPRLTSNPSRVDR LIVDELRELARVVTLLGKMERLRSSLLHASIS  
TALDRHLESIHIVQSRRKDEIVNASNRQRQGVPRCQDDRDVFALASAIKEMCVATRKTRT  
ALWCALQMTLPKTASTADVVKPLQDTVNCEDKVHESINSSNPMNQRGETNKH

>sp|P50221|MEOX1\_HUMAN Homeobox protein MOX-1 OS=Homo sapiens GN=MEOX1 PE=1 SV=1

MDPAASSCMRSLQPPAPVWGCLRNPHSENGASGLPHYPPTPFSFHQKPDFLATATAAYP  
DFSASCLAATPHSLPQEEHIFTEQHPAFPPQSPNWHFPVSDARRRPNSGPAGGSKEMGTSS  
LGLVDTTGGPGDDYGVLGSTANETEEKSSRRRKESDNQENRGKPEGSSKARKERTAFTK  
EQLRELEAEFAHNNYLTRLRRYEIAVNLDLSEKQVKVWFQNRMRKWKRVKGGQPI SPNGQ  
DPEDGDSTASPSSE

>sp|Q16819|MEP1A\_HUMAN Meprin A subunit alpha OS=Homo sapiens GN=MEP1A PE=1 SV=2

MAWIRSTCILFFTLFAHIAAVPIKYLPEENVHDADFGEQKDI SEINLAAGLDFQGDIL  
LQKSRNGLRDPNTRWTFPIPYILADNLGLNAKAILYAFEMFRLKSCVDFKPYEGESSYI  
IFQQFDGCWSEVGDQHVGGQNISIGQCAYKAIIEHEILHALGFYHEQSRTDRDDYVNIWW  
DQILSGYQHNFDYDDSLITDLNTPYDYESLMHYQPFSFNKNASVPTITAKIPEFNSIIG  
QRLDFAIDLRLNRMYNCTTHTLLDHCTFEKANICGMIQGTDRDDTDWAHQDSAQAGEV  
DHTLLGQCTGAGYFMQFSTSSGSAEEAALLESRI LYPKRKQQCLQFFYKMTGSPSDRLVV  
WVRDDSTGNVRKLKVKVTFQGGDDHNWKIAHVVLKEEQKFRYLFQGTKGDPQNSTGGIY  
LDDITLTETPCPTGVWTVRNFSQVLENTSKGDKLQSPRFYNSEGYGFGVTLYPNSRESSG  
YLRLAFHVCSGENDAILEWPVENRQVIITILDQEPDVRNRMSSSMVFTTSKSHTPAIND

TVIWRPSRVGTYHTDCNCFRSDLGWSGFISHQMLKRRSFLKNDDLIIFVDFEDITHLS  
QTEVPTKGKRLSPQGLILQGQEQVSEEGSGKAMLEEALPVSLSQGQPSRQKRSVENTGP  
LEDHNWPQYFRDPCDPNPCQNDGICVNVKGMASCRCISGHAFYTGERCQAVQVHGSVLG  
MVIGGTAGVIFLTFSIIAILSQRPRK

>sp|Q16820|MEP1B\_HUMAN Meprin A subunit beta OS=Homo sapiens GN=MEP1B PE=1 SV=3

MDLWNLSWFLFLDALLVISGLATPENFDVDGGMDQDIFDINEGLGLDLFEGDIRLDRAQI  
RNSIIGEKYRWPHTIPYVLEDSLEMNAKGVILNAFERYRLKTCIDFKPWAGETNYISVFK  
GSGCWSSVGNRRVGKQELSIGANCRIATVQHEFLHALGFWHEQSRSDRDDYVRIMWDRI  
LSGREHNFNTYSDDISDSLNPYDYTSVMHYSKTAFQNGTEPTIVTRISDFEDVIGQRMD  
FSDSDLKLNLQLYNCSSSLSFMDSCSFELENVCGMIQSSGDNADWQRVSQVPRGPESDHS  
NMGQCQSGSFFMHFDSSSVNVGATAVLESRTLYPKRGFQCLQFYLYNSGESDQLNIYIR  
EYSADNVDGNLTVEEIKEIPTGSWQLYHVTCLKVTKKFRVVFEGRKGSGASLGGLSIDDI  
NLSETRCPHHIWHIRNFTQFIGSPNGTLYSPPFYSSKGYAFQIYLNLAHV TNAGIYFHLI  
SGANDDQLQWPCPWQATMTLLDQNPDIRQRMSNQRSITDPFMTTDNGNYFWDPRSKVG  
TVALFSNGTQFRRGGGYGTSAFITHERLKS RDFIKGDDVYILLTVEDISHLNSTQIQLTP  
APSVQDLCSKTTCKNDGVCTVRDGKAECRCQSGEDWWMGERCEKRGSTRDTIVIAVSST  
VAVFALMLIITLVSVYCTRKKYRERMSSNRPNLTPQNQHAF

>sp|Q9NQ76|MEPE\_HUMAN Matrix extracellular phosphoglycoprotein OS=Homo sapiens GN=MEPE  
PE=1 SV=1

MRVFCVGLLLFSVTWAAPTQFPQTEKTKQSCVEEQRQEEKNDNIGFHHLGKRINQELSS  
KENIVQERKKDLSLSEASENKGSSKSQNYFTNRQLNKEYSISNKENTHGLRMSIYPKS  
TGNGKFEDGDDAISKLDQEEYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNVLNII  
PASMNYAKAHSKDKKKPQRDSQAQKSPVKSSTHRIQHNIDYLBKLSKVKKIPSDFEKSG  
YTDLQERGDNDISPFSGDGQPFKDIPGKGEATGPDLEGKDIQTGFAGPSEAESTHLDTKK  
PGYNEIPEREENGNTIGTRDETAKEADAVDVSLVEGSNDIMGSTNFKELPGREGNRVDA  
GSQNAHQGKVEFHYPAPSKEKRKEGSSDAAESTNYNEIPKNGKSTRKGVDSNRNQAT  
LNEKQRFPSKGKSQGLPIPSRGLDNEIKNEMDSFNGPSHENIITHGRKYHYVPHRQNNST  
RNKGMPQGGKGSWGRQPHSNRRFSSRRRDDSSSESDSGSSSESDDG

>sp|Q9H1K6|MESD1\_HUMAN Mesoderm development candidate 1 OS=Homo sapiens GN=MESDC1 PE=1  
SV=1

MASGSAGKPTGEAASPAPASAIIGGASSQPRKRLVSVCDHCKGKMLVADLLLLSSEARPV  
LFEGPASSGAGAESFEQCRDTIIARTKGLSILTHDVQSQNLNMGFRGEAGDSLVELGDLVV  
SLTECSAHAAYLAAVATPGAQPAQPLVDYRVTRCRHEVEQGC AVL RATPLADMT PQLL  
LEVSQGLSRNLKFLTACALASDKSRDRFSREQFKLGVKCMSTSASALLACVREVKVAPS  
ELARSRCALFSGPLVQAVSALVG FATEPQFLGRAAAVSAEGKAVQTAILGGAMSVVSACV  
LLTQCLRD LAQHPDGGAKMSDHRERLRNSACAVSEGCTLLSQALRERSSPRTLPPVNSNS  
VN

>sp|Q02779|M3K10\_HUMAN Mitogen-activated protein kinase kinase kinase 10 OS=Homo sapiens  
GN=MAP3K10 PE=1 SV=3

MEEEGAVAKEWGTTPAGPVWTA VFDYEAAGDEELTLRRGDRVQVLSQDCAVSGDEGWWT  
GQLPSGRVGVFSPSNYVAPGAPAAPAGLQLPQEIPFHELQLEEIIGVGGFGKVYRALWRGE  
EVAVKAARLDPEKDP AVTAEQVCQEARLFGALQHPNIIALRGACLNPPHLCVMEYARGG  
ALSRVLAGRVRPPHVLNVNAVQVARGMNYLHNDAPVPIIHRDLKSINILILEAIENHNLA  
DTV LKITDFGLAREWHKTTKMSAAGTYAWMAPEVIRLSLFSKSSDVWSFGVLLWELLTGE

VPYREIDALAVAYGVAMNKLTLPIPSTCPEPFARLLEECWDPDPHGRPDFGSILKRLEVI  
EQSALFQMPLESFHSIQEDWKLEIQHMFDDLRTKEKELRSREEELLRAAQEQRFQEEQLR  
RREQELAEREMDIVERELHLLMCQLSQEKPRVRKRKGNFKRSRLKLREGGSHISLPSGF  
EHKITVQASPTLDRKKGSDGASPPASPSIIPRLRAIRLTPVDCGSSSSGSSSGSGTWSR  
GGPPKKEELVGKKKGRTWGPSSTLQKERVGGEERLKGLGEGSKQWSSAPNLGKSPKHT  
PIAPGFASLNEMEEFAEAEDGGSSVPPSPYSTPSYLSVPLPAEPSPGARAPWEPTPSAPP  
ARWGHGARRRCDLALLGCATLLGAVGLGADVAEARAADGEEQRRWLDGLFFPRAGRFRG  
LSPPARPHGRREDVGPGLGLAPSATLVSLSSVSDCNSTRSLLRSDSDEAAPASPPPPSP  
PAPTPTSPSTNPLVDLELESFKKDPRQSLTPTHVTAACAVSRGHRRTPSDGALGQRGPP  
EPAGHGPGRDLLDFPRLPDPQALFPARRRPPEFPGRPTTLTFAPRPRPAASRPRLDPWK  
LVSFGRRTLISPPSRPDTPESPGPPSVQPTLLDMDMEGQNQDSTVPLCGAHGSH

>sp|Q13233|M3K1\_HUMAN Mitogen-activated protein kinase kinase kinase 1 OS=Homo sapiens  
GN=MAP3K1 PE=1 SV=4

MAAAAGNRASSSGFPGARATSPGAGGGGALKASSAPAAAAGLLREAGSGGRERADWRRR  
QLRKVRVVELDQLPEQPLFLAASPASSTSPSEPADAAGSGTGFPVAVPPPHGAASRG  
GAHLETVAAPDSGASSPAAAEPEKRAPAAEPSAPAAAPAGREMENKETLKGLHKMDDRP  
EERMIREKLKATCMPAWKHEWLERRNRGRPVVVKPIPVKGDGSEMNLAAESPGEVQASA  
ASPASKGRRSPSPGNSPSGRTVKSES PGVRRKRVSVPVFGSGRITPPRRAPSPDGFSPYS  
PEETNRRVNKVMRARLYLLQQIGPNSFLIGGDSPDNKYRVFIGPQNCSCARGTFCIHLLF  
VMLRVFQLEPSDPMWLWRKTLKNFEVESLFQKYHSRRSSRIKAPSRTIQKFVSRMSNSHT  
LSSSSTSTSSSENSIKDEEQMCPICLLGMLDEESLTVCEDGCRNKLHHHCMSIWAEECR  
RNREPLICPLCRSKWRSHDFYSHELSSPVDSPSSLRAAQQQTVQQPLAGSRRNQESNFN  
LTHYGTQQIPPAYKDLAEPWIVQFGMELVGCLFSRNWNVREMLRRLSHDVSGALLANG  
ESTGNSGGSSGSSPSGGATSGSSQTSISGDVVEACCSVLMSVCADPVYKVYVAALKTLRA  
MLVYTPCHSLAERIKLQRLQLPVVDITLVKCADANSRTSQLSISTLLELCKGQAGELAVG  
REILKAGSIGIGGVYVNLNCGILGNQTESNNWQELLGRLCLIDRLLEFPAEFYPHIVSTD  
VSQAEPVEIRYKKLLSLLTFALQSIDNSHSMVGKLSRRIYLSSARMVTTVPHVFSKLEML  
LSVSSSTHFTMRRLMAIADEVEIAEAIQLGVEDTLDGQQDSFLQASVPNNYLETENS  
SPECTVHLEKTGKGLCATKLSASSEDISERLASISVGPSSSTTTTTTTEQPKPMVQTKG  
RPHSQCLNSSPLSHHSQLMFPALSTPSSSTPSVPAGTATDVSKHRLQGFIPCRIPASAPQ  
TQRKFSLQFHRNCPENKDSKLSPVFTQSRPLPSSNIHRPKSRPTPGNTSKQGDPSKNS  
MTLDLNSSSKCDDSGCSSNSSNAVIPSDETVFTPVEEKCRLDVNTLNSSIEDLLEASM  
PSSDTTVTFKSEVAVLSPEKAENDDTYKDDVNHQKCKEKMEAEAEALAIAMAMSASQD  
ALPIVPQLQVENGEDIIIIQQDTPETLPGHTKAKQPYREDTEWLKGQQIGLGAFSSCYQA  
QDVGTGTLMAVKQVTVYRNTSSEQEEVVEALREEIRMMSHLNHPNIIIRMLGATCEKSNYN  
LFIEWMAGGSVAHLLSKYGAFKESVVINYTEQLLRGLSYLHENQIIHRDVKGANLLIDST  
GQRLRIADFGAAARLASKGTGAGEFQGQLLGTIAFMAPEVLRGQQYGRSCDVWSVGCAII  
EMACAKPPWNAEKHSNHLALIFKIASATTAPSIPSHLSPGLRDVALRCLELQPQDRPPSR  
ELLKHPVFRTTW

>sp|Q99759|M3K3\_HUMAN Mitogen-activated protein kinase kinase kinase 3 OS=Homo sapiens  
GN=MAP3K3 PE=1 SV=2

MDEQEALNSIMNDLVALQMNRRHRMPGYETMKNKDTGHSNRQSDVRIKFEHNGERRIIAF  
SRPVKYEDVEHKVTVTFGQPLDLHYMNNELSILLKNQDDLDKAIDILDRSSSMKSLRILL  
LSQDRNHNSSSPHSGVSRQVRIKASQSAGDINTIYQPPEPRSRHLSVSSQNPRSSPPPG

YVPERQQHIARQGSYTSINSEGEFIPETSEQCMLDPLSSAENSLSGSCQSLDRSADSPSF  
RKSRMSRAQSFDPNRQEYSRETQLYDKGVKGGTYPRRYHVSVHHKDYSDGRRTFPRIRR  
HQGNLFTLVPSRSLSTNGENMGLAVQYLDPRGRLRSADSENALSVQERNVPTKSPSAPI  
NWRRGKLLGQGAFFRVLYCYDVTGRELASKVQFDPDSPETSKEVSALECEIQLLKNLQ  
HERIVQYYGLRDRAEKLTLTFMEYMPGGSVKDQLKAYGALTESVTRKYTRQILEGMSYL  
HSNMIVHRDIKGANILRDSAGNVKLGDFGASKRLQTICMSGTMRSVTGTPYWMSPEVIS  
GEGYGRKADVWSLGCVVEMLTEKPPWAEYEAMAAIFKIATQPTNPQLPSHISEHGRDFL  
RRIFVEARQRPSAEELLTHHFAQLMY

>sp|Q5TCX8|M3KL4\_HUMAN Mitogen-activated protein kinase kinase kinase MLK4 OS=Homo sapiens GN=MLK4 PE=1 SV=1

MALRGAAGATDTPVSSAGGAPGGSASSSTSSGGSASAGAGLWAALYDYEARGEDELSLR  
RGQLVEVLSQDAAVSGDEGWWAGQVQRRLGIFPANYVAPCRPAASPAPPPSRPSSPVHVA  
FERLELKELIGAGGFGQVYRATWQGQEVAVKAARQDPEQAAAAAESVRREARLFAMLRH  
PNIIELRGVCLQQPHLCVLLEFARGGALNRALAAANAAPDPRAPGPRRARRIPPHVLVNW  
AVQIARGMLYLHEEAFVPIILHRDLKSSNILLEKIEHDDICNKTCLKITDFGLAREWHRTT  
KMSTAGTYAWMAPEVIKSSLFSKGSDIWSYGVLLWELLTGEVPYRGIDGLAVAYGVAVNK  
LTLPIPTCPEPFAKLMKECWQQDPHIRPSFALILEQLTAIEGAVMTEMPQESFHSMQDD  
WKLEIQMFDELRTKEKELRSREEELTRAALQQKSQEELLKRREQLAEREIDVLERELN  
ILIFQLNQEKPVKKRKGKFKRSRLKLKDGHRISLPSDFQHKITVQASPNDKRRSLNSS  
SSSPSSPTMMPRLRAIQLTSDENKTWGRNTVFRQEEFEDVKNRNFKKKGCTWGPNSIQM  
KDRTDCKERIRPLSDGNPSTILIKNQKTMLASLFVDQPGSCEEPKLSPDGLEHRKPK  
QIKLPSQAYIDLPLGKDAQRENPAEASWEEAASANAATVSIEMTPTNSLSRSPQRKKTE  
SALYGCTVLLASVALGLDLRELHKAQAAEPLPKEEKKKREGIFQRASKSRRSASPPTSL  
PSTCGEASSPPSLPLSSALGILSTPSFSTKCLLQMDSEDPLVDSAPVTCDSEMLTPDFCP  
TAPGSGREPALMPRLDTCVSRNLPSFLQQTGCVNYPYCASSKHRPSHHRRTMSDGNPT  
PTGATIIISATGASALPLCPSPAPHSHPREVSPKKHSTVHIVPQRRPASLSRSDLPQAY  
PQTAVSQAQTACVVGPRGPHPTQFLAAKERTKSHVPSLLDADVEGQSRDYTVPLCRMRS  
KTSRPSIYELEKEFLS

>sp|Q96JQ5|M4A4A\_HUMAN Membrane-spanning 4-domains subfamily A member 4A OS=Homo sapiens GN=MS4A4A PE=2 SV=1

MHQTYSRHCRPEESTFSAAMTTMQGMEQAMPGAGPGVPQLGNMAVIHSHLWKGLQEKFLL  
GEPKVLGVVQILTALMSLSMGITMMCASNTYGSNPISVYIGYTIWGSVMFIISGSLSLA  
AGIRTTKGLVRGSLGMNITSSVLAASGILINTFSLAFYSFHHYPYCNYYGNSNNCHGTMSI  
LMGLDGMVLLSVLEFCIAVLSAFGCKVLCCTPGGVVLIPLSHSHMAETASPTPLNEV

>sp|Q9H2W1|M4A6A\_HUMAN Membrane-spanning 4-domains subfamily A member 6A OS=Homo sapiens GN=MS4A6A PE=2 SV=1

MTSQPVNETIIVLPNSVINFSQAQKPEPTNQGDQLKKHLHAEIKVIGTIQILCGMMVL  
SLGIIILASASFSPNFTQVTSTLLNSAYPFIFGPFFFIISGSLSIATEKRLTKLLVHSSLVG  
SILSALSALVGFIILSVKQATLNPASLQCELDKNNIPTRSYVSFYHDSLYTTDCYTAKA  
SLAGTSLMLICTLLEFCLAVLTAVLRWKQAYSDFPGSVLFLPHSYIGNSGMSSKMTHTDC  
GYEELLTS

>sp|Q9NR34|MA1C1\_HUMAN Mannosyl-oligosaccharide 1,2-alpha-mannosidase IC OS=Homo sapiens GN=MAN1C1 PE=1 SV=1

MLMRKVPGFVPASPWGLRLPQKFLFLFLSGLVTLFCGALFLLPHSSRLKRLFLAPRTQQ

PGLEVVAE IAGHAPAREQEPPNPAPAAPAGEDDPSSWASPRRRKGGLRRTRPTGPREE  
ATAARGNSIPASRPGDEGVPRFDFNAFRSRLRHPVLGTRADESQEPQSQVRAQREKIKE  
MMQFAWQSYKRYAMGKNELRPLTKDGYEGNMFGLSGATVIDSLDTLYLMELKEEFQEAK  
AWVGESFHLNVSGEASLFEVNIRYIGLLSAFYLTGEEVFRIKAIRLGEKLLPAFNTPTG  
IPKGVVSFKSGNWGWATAGSSSILAEFGSLHLEFLHLTELSGNQVFAEKVRNIRKVLRKI  
EKPFGLYPNFLSPVSGNWVQHHSVGGGLGDSFYEYLKSWLMSGKTDMEAKNMYEALAE  
IETYLLNVSPGGLTYIAEWRGGILDHKMGHLACFSGGMIALGAEDAKEEKRAHYRELAQA  
ITKTCHEYSARSDTKLGPEAFWFNSGREAVATQLSESYIILRPEVVESYMYLWRQTHNP  
YREWGWEVVLALKEYCRTEAGFSGIQDVYSSTPNHDKQSQFFLAETLKLYLLFSEDDL  
LSLEDWVFNTEAHPLPVNHSDSSGRAWGRH

>sp|Q9Y2E5|MA2B2\_HUMAN Epididymis-specific alpha-mannosidase OS=Homo sapiens GN=MAN2B2  
PE=1 SV=4

MGQLCWLPLLAPLLLLRPPGVQSAGPIRAFVPHSHMDVGWVYTVQESMRAYAANVYTSV  
VEELARGQQRRIAVEQEFFRLWWDGVASDQKQYQVRQLLEEGRLEFVIGGQVMHDEAVT  
HLDDQILQLTEGHGFLYETFGIRPQFSWHVDPFGASATPTLFALAGFNAHLGSRIDYDL  
KAAMQEARGLQFVWRGSPSLSERQEIFTHIMDQYSYCTPSHIPFSNRSGFYWNGVAVFPK  
PPQDGVYPNMSEPVTPANINLYAEALVANVKQRAAWFRTPHVLWPWGCDKQFFNASVQFA  
NMDPLLDHINSHAAELGVSQYATLGDYFRALHALNVTWRVRDHHDFLPYSTEPFQAWTG  
FYTSRSSLKGLARRASALLYAGESMFTRYLWPAPRGHLDPTWALQQLQLRWAVSEVQHH  
DAITGTESPKVRDMYATHLASGMLGMRKLMAIVLDELQPQAPMAASSDAGPAGHFASVY  
NPLAWTVTTIVTLTVGFPGRVTVDEAGHPVPSQIQNSTETPSAYDLLILTTIPGLSYRHY  
NIRPTAGAQEGTQEPAAVASTLQFGRRLRRRTSHAGRYLVPVANDCYIVLLDQDTNLMH  
SIWERQSNRTVRVTQEFLEYHVNVDVKGPISDNYLFTPGKAAVPAWEAVEMEIVAGQLV  
TEIRQYFYRNMTAQNYTYAIRSRLTHVPQGHGELLCHRIEQEYQAGPLELNREAVLRTS  
TNLNSQQVIYSDNNGYQMQRPPVSYVNNSIARNYYPMVQSAFMEDGKSRLVLLSERAHG  
ISSQGNQGEVEMLHRRLWNNFDWDLGYNLTLDTSVHVPVLWLLGWSLTTALRQRSAL  
ALQHRPVVLFGLAGTAPKLPGPQQQEAVTLPPNLHLQILSIPGWRYSSNHTHSQNLRK  
GHRGEAQADLRRVLLRLYHLYEVGEDPVLSQPVTVNLEAVLQALGSVVAVEERSLTGTWD  
LSMLHRWSWRTGPRHRGDTTSPSRPPGGPIITVHPKEIRTFFIHFQQQ

>sp|Q7L5Y9|MAEA\_HUMAN Macrophage erythroblast attacher OS=Homo sapiens GN=MAEA PE=1 SV=1

MAVQESAAQLSMTLKVQEYPTLKVPYETLNKRFRAAQKNIDRETSHVTMVVAELEKTLSG  
CPAVDSVVSLLDGVEKLSVLKRKAVESIQAEDESACLCKRRIEHLKEHSSDQPAASVW  
KRRKMDRMMVEHLLRCGYNTAVKLARQSGIEDLVNIEMFLTAKVEESLERRETATCLA  
WCHDNKSRLRKMKSCLFSLRIQEFIELIRQNKRLDAVRHARKHFSQAEGSQLDEVQRAM  
GMLAFPPDTHISPYKDLLDPARWRMLIQQFRYDNYRLHQLGNNSVFTLTLQAGLSAIKTP  
QCYKEDGSSKSPDCPVCSRSLNKLQPLMAHCANSRLVCKISGDVMNENNPMMPLNGY  
VYGNSLLSIRQDDKVVCPRTEKVFHFSQAEKVYIM

>sp|P43358|MAGA4\_HUMAN Melanoma-associated antigen 4 OS=Homo sapiens GN=MAGEA4 PE=1 SV=2

MSSEQSQHCKPEEGVEAQEEALGLVGAQAPTTEEQEAASSSSPLVPGTLEEVPAESA  
GPPQSPQGASALPTTISFTCWRQPNEGSSSQEEGPSTSPDAESLFREALSNKVDELAHF  
LLRKYRAKELVTKAEMLERVIKNYKRCFPVIFGKASESLKMIFGIDVKEVDPASNTYTLV  
TCLGLSYDGLGNQIFPKTGLLIIVLGTIAMEGDSASEEEIWEELGVMGVYDGREHTVY  
GEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALAETSYVKVLEHVVRVNRVRI  
AYPSLREAALLEEEEGV

>sp|P43365|MAGAC\_HUMAN Melanoma-associated antigen 12 OS=Homo sapiens GN=MAGEA12 PE=2 SV=2

MPLEQRSQHCKPEEGLEAQGEALGLVGAQAPATEEQETASSSSTLVEVTLREVPAAESPS  
PPHSPQGASTLPTTINYTLWSQSDGSSNEEQEGPSTFPDLETSFQVALSRKMAELVHFL  
LLKYRAREPFTKAEMLGSVIRNFQDFFPVIFSKASEYLQLVFGIEVVEVVRIGHLYILVT  
CLGLSYDGLLDGNQIVPKTGLLIIVLAIIAKEGDCAPEEKIWEELSVLEASDGREDSVFA  
HPRKLLTQDLVQENYLEYRQVPGSDPACYEFLWGPRLVETSYVKVLHLLKISGGPHIS  
YPPLHEWAFREGEE

>sp|Q8N7X4|MAGB6\_HUMAN Melanoma-associated antigen B6 OS=Homo sapiens GN=MAGEB6 PE=1 SV=2

MPRGHKSRLTCEKRQETNGQPQGLTGPQATAEKQEESHSSSSSRACLGDCCRSSDASI  
PQESQGVSPGTSPDAVVSYSKSDVAANGQDEKSPSTSRDASVPQESQGASPTGSPDAGVS  
GSKYDVAANGQDEKSPSTSHDVSVVPQESQGASPTGSPDAGVSGSKYDVAAGEDEESVSA  
SQKAIIFKRLSKDAVKKKACTLAQFLQKKFEKKESILKADMLKCVRREYKPYFPQILNRT  
SQHLVVAFGVELKEMDSSGESYTLVSKLGLPSEGILSGDNALPKSGLLSLLVIFMNGN  
CATEEEVWEFLGLLGIYDGLHSIYGDARKIITEDLVQDKYVVYRQVCNSDPPCYEFLWG  
PRAYAETTKMRVLRVLADSSNTSPGLYPHLYEDALIDEVERALRLRA

>sp|O60732|MAGC1\_HUMAN Melanoma-associated antigen C1 OS=Homo sapiens GN=MAGEC1 PE=1 SV=3

MGDKDMPTAGMPSLLQSSSESPQSCPEGEDSQSPLQIPQSSPESDDTLYPLQSPQSRSEG  
EDSSDPLQRPPEGKDSQSPLQIPQSSPEGDDTQSPLQNSQSSPEGKDSLSPLEISQSPPE  
GEDVQSPLQNPASSFFSSALLSIFQSSPESTQSPFEGFPQSVLQIPVSAASSSTLVSIQ  
SSPESTQSPFEGFPQSPLQIPVSRFSSTLLSIFQSSPERTQSTFEGFAQSPLQIPVSPS  
SSSTLLSLFQSFERTQSTFEGFAQSSLQIPVSPSFSSTLVSLFQSSPERTQSTFEGFPQ  
SPLQIPVSSSSSSTLLSLFQSSPERTHSTFEGFPQSLLQIPMTSSFSSTLLSIFQSSPES  
AQSTFEGFPQSPLQIPGSPFSSTLLSLFQSSPERTHSTFEGFPQSPLQIPMTSSFSSTL  
LSILQSSPESAQSAFEGFPQSPLQIPVSSFSYTLTLLSLFQSSPERTHSTFEGFPQSPLQI  
PVSSSSSSTLLSLFQSSPECTQSTFEGFPQSPLQIPQSPPEGENTHSPLQIVPSLPEWE  
DSLSPHYFPQSPPQGEDSLSPHYFPQSPPQGEDSLSPHYFPQSPQGEDSLSPHYFPQSPP  
QGEDSMSPLYFPQSPLQGEEFQSSLQSPVICSSTPSSLPQSFPESSQSPPEGPVQSPL  
HSPQSPPEGMHSQSPLQSPESAPEGEDSLSPLQIPQSPLEGEDSLSSLHFPQSPPEWEDS  
LSPLHFPQFPQGEDFQSSLQSPVICSSTSLSLPQSFPESSQSPPEGPAQSPLQRPVS  
SFFSYTLASLLQSSHESQSPPEGPAQSPLQSPVSSFPSTSSSLQSSPVSSFPSTSS  
SLKSSPESPLQSPVISFSSSTSLSPFSEESSPVDEYTSSSDTLLESDSLTDESILIES  
EPLFTYTLDEKVDELARFLLLKYQVKQPITKAEMLTNISRITGYFPVIFRKAREFIEIL  
FGISLREVPDDSYFVNTLDLTSEGCLSDQMSQNRLLILILSIIFIKGTYASEEVIW  
DVLSGIGVRAGREHFAGGEPRELLTKVWVQEHYLEYREVPNSSPPRYEFLWGPRAHSEVI  
KRKVVEFLAMLKNTVPITFPSSYKDALKDVEERAQAIIDTTDDSTATESASSSVMSPSFS  
SE

>sp|Q9UBF1|MAGC2\_HUMAN Melanoma-associated antigen C2 OS=Homo sapiens GN=MAGEC2 PE=1 SV=1

MPPVPGVFRNVDNDSPTSVELEDWVDAQHPTDEEEEEASSASSTLYLVFSPSSFSTSS  
LILGGPEEEVPSGVIPNLTESIPSSPPQGPQGPSQSPLSSCCSSFSWSSFSEESSSQK  
GEDTGTCQGLPDSESSFTYTLDEKVAELVEFLLKYEAEFPVTEAEMLMIVIKYKDYFPV  
ILKRAREFMELLFGLALIEVGPDPHFCVFANTVGLTDEGSDDEGMPENSLIIILSVIFIK  
GNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVPHSSPPYYEFL  
WGPRAHSESIIKKVLEFLAKLNNTVPSSFPSSWKDALKDVEERVQATIDTADATVMASE



SLSVMSSNVSFSE

>sp|Q9H213|MAGH1\_HUMAN Melanoma-associated antigen H1 OS=Homo sapiens GN=MAGEH1 PE=1 SV=1  
MPRGRKSRRRRNARAAEENRNNRIQASEASETPMAASVFASTPEDDLSGPEEDPSTPEE  
ASTTPEEASSTAQAQKPSVPRSNFQGTTKSLMSILALIFIMGNSAKEALVWKVLGKLG  
QPGRQHSIFGDPKKIVTEEFVRRGYLIYKPVPRSSPVEYEFFWGPRAHVESSKLKVMHFV  
ARVRNRCSKDWPCNYDWDSDDDAEVEAILNSGARGYSAP

>sp|Q5TCQ9|MAGI3\_HUMAN Membrane-associated guanylate kinase, WW and PDZ domain-containing  
protein 3 OS=Homo sapiens GN=MAGI3 PE=1 SV=2

MSKTLKKKKHWSKVVQECASWAGPPGDFGAEIRGGAERGEFPYLGRLREEPGGGTCCVV  
SGKAPSPGDVLLVNGTPVSGLTNRDTLAVIRHFREPIRLKTVKPGKVINKDLRHYLSLQ  
FQKGSIDHKLQVIRDNLRLTIPCTTRAPRDGEVPGVDYNFISVEQFKALEESGALLES  
GTYDGNFYGTPKPPAEPSPFPDPVDQVLFDFNEFDAESQRKRTTSVSKMERMDSSLPEEE  
EDEDKEAINGSGNAENRERHSESSDWMKTVPSYNQTNSSMDFRNYMMRDETLEPLPKNWE  
MAYTDTGMIYFIDHNTKTTTWLDPRLCKKAKAPEDCEDGELPYGWEKIEDPYGYTYVDF  
TLVAQAGVQWHDLSLQPPPPGFNHLNQKTQFENPVVEAKRKKQLGQVEIGSSKPDMEKS  
HFTRDPSQLKGVLRASLKKSTMFGFTIIGGDRPDEFLQVKNVLKDGPAADGKIAPGD  
VIVDINGNCVGLGHTHADVVQMFQLVPVNQYVNLTLCRGYPLPDDSEDVVDIVAATPVIN  
GQSLTKGETCMNPQDFKPGAMVLEQNGKSGHTLTGDGLNGPSDASEQRVSMASGSSQPE  
LVTIPLIKGPKGFAGAIADSPTGQVKMILDSQWCQGLQKGDIIKEIYHQNVQNLTHLQV  
VEVLKQFPVAGDVPLLLIRGGPPSPTKTAKMKTDKKENAGSLEAINEPIQPMPFPPSII  
RSGSPKLPDSEVYLKSKTLYEDKPPNTKDLDFLRKQESGFGFRVLGGDGPDSIYIGAI  
IPLGAAEKDGRLRAADELMCIDGIPVKGKSHKQVLDLMTAARNGHVLLTVRRKIFYGEK  
QPEDSSQAFISTQNGSPRLNRAEVPARPAPQEPYDVVLQRKENEGFGFVILTSKNKPPP  
GVIPHKIGRVIEGSPADRCGKLKVGHDHISAVNGQSIVELSHDNIVQLIKDAGVTVTLTVI  
AEEHHGPPSGTNSARQSPALQHRPMGQSQANHIPGDRSALEGEIGKDVSTSYRHSWSDH  
KHLAQPDTAIVSVGSRHNQNLGCYPVELERGRPGFGFSLRGGKEYNMGLFILRLAEDGP  
AIKDGRIVHVDQIVEINGEPTQGITHTRAIELIQAGGNKVLALLRPGTGLIPDHGDWDIN  
NPSSSNVIYDEQSPLPPSSHFAFIEESHVPVIEESLRVQICEKAEELKDIVPEKKSTLN  
ENQPEIKHQSLQKVNKSRDPPSSHGHSNKKNLKVENGVTRGRSVSPKKPASQHSEEH  
LDKIPSPLKNNPKRRPRDQSLSPSKGENKSCQVSTRAGSGQDQCRKSRRGRSASPKKQKKI  
EGSKAPSNAEAKLLEGKSRRIAGYTGSAEQIPDGKEKSDVIRKDAQNQLEKSRTSPE  
KKIKRMVEKSLPSKMTNKTTSKEVSENEKGGKVTGTGETSSNDKIGENVQLSEKRLKQEP  
EEKVVSNTKEDHKGKELEAADKNKETGRFKPESSSPVKKTLITPGPWKVPSPGNKVTGTIG  
MAEKRQ

>sp|Q9UJ55|MAGL2\_HUMAN MAGE-like protein 2 OS=Homo sapiens GN=MAGEL2 PE=1 SV=2

MSQLSKNLGDSSPPAEAPKPPVYSRPTVLMRAPPASSRAPPVPWDPPPIDLQASLAAWQA  
PQPAWEAPQGQLPAPVVPMTQPPALGGPIVPAPPLGGPMGKPPTPGVLMVHPPPPGAPMA  
QPPTPGVLMVHPSAPGAPMAHPPPPGTPMSHPPPPGTPMAHPPPPGTPMAHPPPPGTPMV  
HPPPPGTPMAHPPPPGTPMAHPPPPGTPMAHPPPPGTPMAHPPPPGTPMAQPPAPGVMA  
QPLTPGVLMVQPAAPGAPMVQPPPAAMMTQPQPSGAPMAKPPGPGVLMIHPPGARAPMTQ  
PPASGAPMAQPAAPPAQPMAPPAQPMASWAPQAQPLILQISQVIRAPPQVPQGPQAPPA  
QLATPPGWQATSPGWQATQGGWQATPLTWQTTQVTWQAPAVTWQVPPPMRQGPPPIRPGP  
PPIRPGPPPVQAPPLIRQAPPVIRQAPPVIRQAPPVIRQAPAVIRQAPPVIRQAPPVIR  
QAPPVIRQAPPLIRQAPPPIRPAPQVLAQPLQALPPPPPLRQAPQARLPAPQVQAAP

QVPTAPPATQVPAAPPAGPQVPQVLPAPLSAPLSAPQAVHCPSIIWQAPKGQPPVPHEI  
PTSMEFQEVQQTQALAWQAQKAPTHIWQLPAQEAQRQAPPLVQLEQPFQGAPPSQKAVQ  
IQLPPQQAQASGPQAEVPTLPLQPSWQAPPVLAQAPGPPVAAANFPLGSAKSLMTPSGE  
CRASSIDRRGSSKERRTSSKERRAPSKDRMIFAATFCAPKAVSAARAHLPAAWKNLPATP  
ETFAPSSSVFPATSQFQPASLNAFKGPSAASETPKSLPYALQDPFACVEALPAVPWVPQP  
NMNASKASQAVPTFLMATAAAPQATATTQEASKTSVEPPRRSGKATRKKKHLEAQEDSRG  
HTLAFHDWQGPRPWENLNLSDWEVQSPIQVSGDWEHPNTPRGLSGWEGPSTSRILSGWEG  
PSASWALSAWEGPSTSRALGLESPPGSSLPVVVSEVASVSPGSSATQDNSKVEAQPLSPL  
DERANALVQFLLVKDQAKVPVQRSEMVKVIILREYKDECLDIINRANNKLECAFGYQLKEI  
DTKNHAYIIINKLGYHTGNLVASYLDRPKFGLLMVVLSLIFMKGNCVREDLIFNFLFKLG  
LDVRETNGLFNGTKKLITEVFVRQKYLEYRRIPYTEPAEYEFWGPRAFLETSKMLVLRF  
LAKLHKKDPQSWPFHYLEALAECEWEDTDEDEPDTGDSAHGPTSRPPPR

>sp|Q9H0U3|MAGT1\_HUMAN Magnesium transporter protein 1 OS=Homo sapiens GN=MAGT1 PE=1 SV=1

MAARWRFWCVSVTMVVALLIVCDVPSASAQRKKEMVLSEKVSQLEWNTNRPVIRMNGDK  
FRRLVKAPPRNYSIVMFTALQLHRQCVCKQADEEFQILANSWRYSSAFTNRIFFAMVD  
FDEGSDVFMMLNMNSAPTFINFPAGKPKRGDTYELQVRGFSAEQIARWIADRTDVNIRV  
IRPPNYAGPLMLGLLAVIGGLVYLRRSNMEFLFNKTGWAFALCFVLAMTSGQMWNHIR  
GPPYAHKNPHTGHVNYIHGSSQAQFVAETHIVLLFNGGVTLMGMVLLCEAATSDMDIGKRK  
IMCVAGIGLVVLFSSWMLSIFRSKYHGYPSFLMS

>sp|Q96A59|MALD3\_HUMAN MARVEL domain-containing protein 3 OS=Homo sapiens GN=MARVELD3  
PE=2 SV=3

MEDPSGAREPRARPRERDPGRRPHPDQGRTHDRPRDRPGDPRRKRSSDGNRRRDGDRDPE  
RDQERDGNRDRNRDRERERERERDPDRGPRRDTHRDAGPRAGEHGVWEKPRQSRTD GAR  
GLTWDAAPP GPAPWEAEP PPQQRKGDPGRRRPESEPPSERYLPSTPRPGREEVEYYQS  
EAEGLECHKCKYLCTGRACCMLEVLNLLILACSSVSYSSTGGYTGITSLGGIYYYQF  
GGAYSGFDGADGEKAQQLDVQFYQLKLPMTVAMACSGALTALCCLFVAMGVLRVPWHCP  
LLLVT EGLLDMLIAGGYIPALYFYFHYLSAAYGSPVCKERQALYQSKGYSGFGCSFHGAD  
IGAGIFAALGIVVFALGAVLAIKGYRKVRKLKEKPAEMFEF

>sp|P48163|MAOX\_HUMAN NADP-dependent malic enzyme OS=Homo sapiens GN=ME1 PE=1 SV=1

MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPFSFNSQEIQVLRVVK  
NFEHLNSDFDRYLLMDLQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQYSLVFRKP  
RGLFITIHDRGHIASVLNAWPEDVIKAIIVTDGERILGLGDLGCNGMGPVGLALYTAC  
GGMNPQECLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFLDEFMEAVSSKYGMNC  
LIQFEDFANVNAFRLLNKYRNQYCTFNDDIQTASVAVAGLLAALRITKNKLSQITILFQ  
GAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVD SKGLIVKGRASLTQEKEKFAHEHEE  
MKNLEAIVQEIKPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALSNPTS KAECSAEQC  
YKITKGRAIFASGSPFPDVTLPNGQTLYPGQGNN SYVFP GVALGVVACGLRQITDNIFLT  
TAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEKTATVYPEPQNKEAFV  
RSQMYSTDYDQILPDCYSWPEEVQKIQT KVDQ

>sp|P46821|MAP1B\_HUMAN Microtubule-associated protein 1B OS=Homo sapiens GN=MAP1B PE=1  
SV=2

MATVVVEATEPEPSGSIANPAASTSPSLSHRFLDSKFYLLVVVGEIVTEEHLRRAIGNIE  
LGIRSWDTNLI ECNLDQELKLFVSRHSARFSPEVPGQKILHHRSDVLETVVLINPSDEAV  
STEVRMITDAARHKLLVLTGQCFENTGELILQSGSFSFQNFIEIFTDQEIGELLSTHP

ANKASLTLCPEEGDWKNSNLDNRHNLQDFINIKLNSASILPEMEGLSEFTEYLSSESVEVP  
SPFDILEPPTSGGFLKLSKPCCYIFPGGRGDSALFAVNGFNMLINGGSEKSCFWKLIRH  
LDRVDSILLTHIGDDNLPGLNSMLQRKIAELEEEQSQGSTNSDWMKNLISPDLGVVFLN  
VPENLKNPEPNIKMKRSIEEACFTLQYLNKLSMKPEPLFRSVGNTIDPVILFQKMGVGKL  
EMYVLNPVKSSKEMQYFMQQTGTNKDKAEFILPNGQEVLDLPISYLTSVSSLIVWHPANP  
AEKIIIRVLFPGNSTQYNILEGLEKLKHLDFLKQPLATQKDLTGQVPTPVVKQTKLKQRAD  
SRESLKPAAKPLPSKSVRKESKEETPEVTKVNHVEKPPKVESKEKVMVKKDKPIKTETKP  
SVTEKEVPSKEEPSVKA EVAEKQATDVKPKAAEKT VKKETKVKPEDKKEEKEKPKKEV  
AKKEDKTP IKKEEKPKKEEVKKEVKKEIKKEEKKPKKEVKKETPPKEVKKEVKKEEKK  
VKKEEKEPKKEIKKLPKDAKSSSTPLSEAKKPAALKPKVPKKEESVKKDSVAAGKPKEKG  
KIKVIKKEGKAAEAVAAVGTGATTAAVMAAAGIAAIGPAKELEAERSLMSSPEDLTKDF  
EELKAEVDVTKDIKPQLELIEDEEKLKETEPVEAYVIQKEREVTGPAESPDEGITTE  
GEGECEQTPEELEPVEKQGVDIEKFEDGAGFEESSETGDYEEKAETEEAEPEEDGEE  
HVCVSASKHSPTEDDEESAKAEADAYIREKRESVASGDDRAEEDMDEAIEKGEAEQSEEEA  
DEEDKAEDAREEEYEPEKMEADYVMAVVDKAAEAGGAEEQYGFLTTPTKQLGAQSPGRE  
PASSIHDETLPGGSESEATASDEENREDQPEEFTATSGYTQSTIEISSEPTPMDEMSTPR  
DVMSDETNNETESPSQEFVNITKYESSLYSQEYSKPADVTPPLNGFSEGSKTDATDGKDY  
NASASTISPPSSMEEDKFSRSALRDAYCSEVKASTTLDIKDSISAVSSEKVSPPSKSPSL  
SPSPSPLEKTPLGERSVNFSLTPNEIKVSAEAEVAPVSPEVTQEVVEEHCASPEDKTLEV  
VSPSQSVTGSAGHTPYYSPTDEKSSHLPTVEIEKPPAVPVSEFSDAKDENERASVSPM  
DEVPDSESPIEKVLSPLRSPPLIGSESAYESFLSADDKASGRGAESPFEKSGKQGS  
QVSPVSEMTSTSLYQDKQEGKSTDFAPIKEDFGQEKKTDDVEAMSSQPALALDERKLGDV  
SPTQIDVSQFGSKEDTKMSISEGTVSDKSATPVDEGVAEDTYSHMEGVASVSTASVATS  
SFPEPTTDDVSPSLHAEVGSHPSTEVDDSLSVSVVQTPTTFQETEMSPSKEECPRPMSIS  
PPDFSPKTAKSRTPVQDHRSEQSSMSIEFGQESPEQSLAMDFSRQSPDHPTVGAGVLHIT  
ENGPTVDYSPSDMQDSSLSHKIPMEEPSYTQDNDLSELISVSQVEASPSTSSAHTPSQ  
IASPLQEDTLSDVAPPRDMSLYASLTSEKVQSLEGEKLSPKSDISPLTPRESSPLYSPTF  
SDSTSAVKEKTATCHSSSSPIDAASAEPYGFRAVFLDTMQHHLALNRDLSTPGLEKDS  
GGKTPGDFSYAYQKPEETTRSPDEEDYDYESYEKTTRTSVDGGYYYEKIERTTKSPSDSG  
YSYETIGKTTKTPEDGDYSYIEIEKTTRTPEEGGYSYDISEKTTSPEVSGYSYEKTERS  
RRLDDISNGYDDSEDGGHTLGDPSYSYETTEKITSFPESEGYSYETSTKTTRTPDTSTY  
CYETAEKITRTPQASTYSYETSDLCYTAEEKSPSEARQVDLCLVSSCEYKHPKTELSPS  
FINPNPLEWFASEEPTEESEKPLTQSGGAPPPPGGKQGRQCDETPPTSSESAPSQTDS  
DVPPETEECPSITADANIDSEDESETIPTDKTVTYKHMDPPAPVQDRSPSPRHPDVSMV  
DPEALAIENLGLKALKKDLKEKTKTKKPGTKTKSSSPVKKSDGKSKPLAASPKPAGLKES  
SDKVSRVASPKKKESVEKAAKPTTTEVKAARGEKDKETKNAANASASKSAKTATAGPG  
TTKTKSSAVPPGLPVYLDLCYIPNHSNSKNVDVEFFKRVRSSYYVVS GNDPAAEEPSRA  
VLDALLEGKAQWGSNMQVTLIPTHDSEVMREWYQETHEKQQDLNIMVLASSSTVVMQDES  
FPACKIEL

>sp|Q66K74|MAP1S\_HUMAN Microtubule-associated protein 1S OS=Homo sapiens GN=MAP1S PE=1  
SV=2

MAAVAGSGAAAAPSSLLLVVGSEFGSPGLLTYVLEELERGI RSWDVP GVCNLDEQLKVF  
VSRHSATFSSIVKGQRSLHHRGDNLETLVLLNPSDKSLYDEL RNL LLD PASHKLLVLAGP  
CLEETGELL LQTGGFSPHHFLQVLKDREIR DILATTPPPVQPPILTITCPTFGDWAQLAP

AVPGLQGALRLQLRLNPPAQLPNSEGLCEFLEYVAESLEPPSPFELLEPPPTSGGFLRLGR  
PCCYIFPGGLGDAFFAVNGFTVLVNGGSNPKSSFVKLVRHLDRVDAVLVTHPGADSLPG  
LNSLLRRKLAERSEVAAGGGSWDDLRLRLISPNLGVVFFNACEAASRLARGEDEAELALS  
LLAQLGITPLPLSRGPVPAKPTVLFKMGVGRLDMYVLHPPSAGAERTLASVCALLVWHP  
AGPGEKVVRVLFPGCTPPACLLDGLVRLQHLRFLREPVVTPQDLEGPGAESKESVGSRD  
SSKREGLLATHPRPGQERPVGARKEPARAEAPRKTEKEAKTPRELKKDPKPSVSRTQPRE  
VRAASSVPNLKKTNAQAAPKPRKAPSTSHSGFPVANGPRSPPSLRCGEASPPSAACGS  
PASQLVATPSLELGPPIPAGEEKALELPLAASSIPRPRTSPESHRSAPGSERLSLSPLR  
GGEAGPDASPTVTPTVTPTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLP  
LRGPRARRSASPHDVLCLVSPCEFEHRKAVPMAPAPASPGSSNDSSARSQERAGGLGAE  
ETPPTSVESELPTLSDSDPVPLAPGAADSDEDETEGFGVPRHDPLDPLKVPPLPDPSSI  
CMVDPEMLPPKTARQTENVSRTRKPLARPNRAAPKATPVAAAKTKGLAGGDRASRPLS  
ARSEPSEKGGRAPLSRKSSSTPKTATRGPSGASSRPGVSATPPKSPVYLDLAYLPSGSSA  
HLVDEEFFQVRALCYVISGQDQRKEEGMRAVLDALLASKQHWRDLQVTLIPTFDSVAM  
HTWYAETHARHQALGITVLGSNSMVMQDDAFPACKVEF

>sp|P49137|MAPK2\_HUMAN MAP kinase-activated protein kinase 2 OS=Homo sapiens GN=MAPKAPK2  
PE=1 SV=1

MLSNSQGGSPVPFPAPAPPPQPTPALPHPPAQPPPPPPQFPQFHVKSGLQIKKNAI  
DDYKVTSQLGLGINGKVLQIFNKRTQEFALKMLQDCPKARREVELHWRASQCPHIVRI  
VDVYENLYAGRKCLLIVMECLDGGELFSRIQDRGDQAFTEREASEIMKSIGEAIQYLHSI  
NIAHRDVKPENLLYTSKRPNAILKLTDFGFAKETTSNLSLTTPCYTPYYVAPEVLGPEKY  
DKSCDMWSLGVIMYILLCGYPPFYSNHGLAISPGMKTRIRMGQYEFNPPEWSEVSEEVKM  
LIRNLLKTEPTQRMTEFEFMNHPWIMQSTKVPQTPLHTSRVLKEDKERWEDVKEEMTSAL  
ATMRVDYEQIKIKKIEDASNPLLLKRRKKARALEAAALAH

>sp|Q8IW41|MAPK5\_HUMAN MAP kinase-activated protein kinase 5 OS=Homo sapiens GN=MAPKAPK5  
PE=1 SV=2

MSEESDMDKAIKETSILEEYSINWTQKLGAGISGPVRVCVKSTQERFALKILLDRPKAR  
NEVRLHMMCATHPNIVQIEVFANSVQFPHESSPRARLLIVMEMMEGGELFHRISQHRHF  
TEKQASQVTKQIALALRHCHLLNIAHRDLKPENLLFKDNSLDAPVKLCDFGFAKIDQGDL  
MTPQFTPYVYVAPQVLEAQRHQQEKSIGIPTSPTPYTYNKSCDLWSLGVIIYVMLCGYPP  
FYSKHHSRTIPKDMRRKIMTGSFEFPEEWSQISEMAKDVRKLLKVKEERLTIEGVLD  
HPWLNSTEALDNVLPQAQLMMDKAVVAGIQQAHAEQLANMRIQDLKVSLLKPLHSVNNPIL  
RKRKLLGTPKPDVYIHDHENGAEASNVALEKLRDVIAQCILPQAGKGENEDEKLNEVMQ  
EAWKYNRECKLLRDTLQSFWSNGRGFTDKVDRLKLAIEIVKQVIEEQTTSHESQ

>sp|Q5VT66|MARC1\_HUMAN Mitochondrial amidoxime-reducing component 1 OS=Homo sapiens  
GN=MARC1 PE=1 SV=1

MGAAGSSALARFVLLAQSRPGWLGAALGLTAVALGAVAWRRAPTRRRRLLQQVGTVAQ  
LWIYPVKSCKGPVSEAECTAMGLRSGNLRDRFWLVINQEGNMVTARQEPRLVLISLTCD  
GDTLTLSAAYTKDLLPIKTPTTNAVHKCRVHGLEIEGRDCGEATAQWITSFLKSQPYRL  
VHFEPHMRPRRPHQIADLFRPKDQIAYSSTPFLILSEASLADLNSRLEKKVKATNFRPN  
IVISGCDVYAEDSWDELLIGDVELKRVMACSRCILTTVPDPTGVMSRKEPLETLKSYRQC  
DPSEKLYGKSPLFGQYFVLENPGTIKVGDPVYLLGQ

>sp|Q9PON8|MARCH2\_HUMAN E3 ubiquitin-protein ligase MARCH2 OS=Homo sapiens GN=MARCH2 PE=1  
SV=1

MTTGDCCHLPGSLCDCSGSPAFSKVVEATGLGPPQYVAQVTSRDGRLLSTVIRALDTPSD  
GPFCRICHEGANGECLLSPCGCTGTLGAVHKSCLEKWLSSSNTSYCELCHTEFAVEKRPR  
PLTEWLKDPGPRTEKRTLCCDMVCFLFITPLAAISGWLCLRGAQDHLRLHSQLEAVGLIA  
LTIALFTIYVLWTLVSFRYHCQLYSEWRKTNQKVRKIREADSPEGPQHSPLAAGLLKKV  
AEETPV

>sp|Q9NX47|MARH5\_HUMAN E3 ubiquitin-protein ligase MARCH5 OS=Homo sapiens GN=MARCH5 PE=1  
SV=1

MPDQALQQMLDRSCWVCFATDEDDRTAEWVRPCRCRGSTKWVHQAQLQRWVDEKQRGNST  
ARVACPQCNAEYLIVFPKLGPVVVYLDLADRLISKACPFAAAAGIMVGSYWTAVTYGAVT  
VMQVVGHKEGLDVMERADPLFLLIGLPTIPVMLILGKMIRWEDYVLRWRKYSNKLQILN  
SIFPGIGCPVPRIPAEANPLADHVSATRILCGALVFPTIATIVGKLMFSSVNSNLQRTIL  
GGIAFVAIKGAFKVYFKQQQYLRQAHRKILNYPEQEEA

>sp|Q9H992|MARH7\_HUMAN E3 ubiquitin-protein ligase MARCH7 OS=Homo sapiens GN=MARCH7 PE=1  
SV=1

MESKPSRIPRRISVQPSSSLARMMSGSRGSSLNDTYHSRDSSFRLDSEYQSTSASASAS  
PFQSAWYSESEITQGARSRSQNQQRDHDSKRPKLSCTNCTTSAGRNVGNLNTLSDSSWR  
HSQVPRSSSMVLGSGFTDLMRERRDLERRTDSSISNLMDSYHRSGDFTTSSYVQDRVPSY  
SQGARPKENSMSTLQLNTSSTNHQLPSEHQTILSSRDSRNSLRNFSRESESSRSNTQP  
GFSYSSSRDEAPIISNSERVSSQRPFQESSDNEGRRTTRRLLSRIASSMSSTFFSRSS  
QDSLNRTRLSSENSYVSPRILTASQSRSNVPSASEVPDNRASEASQGFRFLRRRWGLSSL  
SHNHSSSDSENFNQSEGRNTGPWLSSSLNRCTPLFSRRRREGRDESSRIPTSDTSSR  
SHIFRRESNEVVHLEAQNDPLGAAANRPQASAASSATTGGSTSDSAQGRNTGISGILP  
GSLFRFAVPPALGSNLTDNVMITVDIIPSGWNSADGKSDKTSAPSRDPERLQKIKESLL  
LEDSEEEEGDLCRICQMAAASSNLLIEPCKCTGSLQYVHQDCMKWLQAKINSGSSLEA  
VTTCELCKEKLELNLEDFDIHELHRAHANEQAEYEFISSGLYLVLLHLCEQSFSDMMGN  
TNEPSTRVRFINLARTLQAHMEDLETSEDDSEEDGDHNRTFDIA

>sp|Q5T0T0|MARH8\_HUMAN E3 ubiquitin-protein ligase MARCH8 OS=Homo sapiens GN=MARCH8 PE=1  
SV=1

MSMPLHQISAIPSQDAISARVYRSKTKEKEREQNEKTLGHFMSSHSSNISKAGSPPSASA  
PAPVSSFSRTSITPSSQDICRICHEGDDESPLITPCHCTGSLHFVHQAQLQQWIKSSDT  
RCCELCKYEFIMETKLKPLRWKELQMTSSERRKIMCSVTFHVIAITCVVWSLYVLIDRT  
AEEIKQQQATGILEWPFWTKLVVAIGFTGGLLFMYVQCKVYVQLWKRLKAYNRVIYVQN  
CPETSKKNIFEKSPLTEPNFENKHGYGICHSDTNSSCCTEPEDTGAEIIHV

>sp|Q6ZN01|MASTR\_HUMAN MEF2-activating motif and SAP domain-containing transcriptional  
regulator OS=Homo sapiens GN=MAMSTR PE=2 SV=1

MTLAASSQRSQIIRSKFRSVLQLRIHRRNQEIQISDPDPWISASDPPLAPALPSGTAPFLF  
SPGVLLPEPEYCPPWRSPKESPKISQRWRESKPRGNLTYHQYMPPEPRQGSRADPQAEG  
SALGPPGPSLWEGTDSQQPHPRMKPSLTPCPPGVSPSPPPHKLELQTLKLEELTVSEL  
RQQLRLRGLPVSGTKSMLLERMRGGAPPRERPKPRREDSPAGAPWPRLKPKALAAARRQG  
SVKPSAASHRPPLPRAADTPGTAPAPTPTPAPAAAPALTPSSGPGSAALTLEEELQEAIR  
RAQLLPNRGIDDILEDQVEPDDPLPIPLDFPGSFDVLSPPDSEGLSSVFSSSLPSPTN  
SSSPSPRDPDTSLDWLEALSGGPPLGSGPPPSIFSADLSDDSSSRLWDLLEDPW

>sp|P33993|MCM7\_HUMAN DNA replication licensing factor MCM7 OS=Homo sapiens GN=MCM7 PE=1  
SV=4

MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVAEDDP  
ELVDSICENARRYAKLFADAVQELLQYKEREVVNKDVLVDVYIEHRLMMEQSRDPGMVR  
SPQNQYPaelmRRFELYFQGPSSNKPRVIREVRADSVGKLVTVRGIVTRVSEVKPKMVVA  
TYTCDQCGAETYQPIQSPTFMPLIMCPSQECQTNRSGGRLYLQTRGSRFIKFQEMKMQEH  
SDQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPILRTGFRQVVQGLLSETYLEA  
HRIVKMNKSEDESAGELTREELRQIAEEDFYEKLAASIAPEIYGHEDVKKALLLLLVG  
GVDQSPRGMKIRGNINICLMDPGVAKSQLLSYIDRLAPRSQYTTGRGSSGVLTAAVLR  
DSVSGELTLEGGALVLADQGVCCIDEFDKMAEADRTAIHEVMEQQTISI AKAGILTTLNA  
RCSILAAANPAYGRYNPRRSLEQNIQLPAALLSRFDLLWLIQDRPDRDNDLRLAQHITYV  
HQHSRQPPSQFEPLDMKLMRRYIAMCREKQPMVPESLADYITAAYVEMRREAWASKDATY  
TSARTLLAILRLSTALARLMMVDVVEKEDVNEAIRL MEMSKDSSLGDKGQTARTQRPADV  
IFATVRELVS GGRSVRFSEAEQRCVSRGFTPAQFQAALDEYEELNVWQVNASRTRITFV

>sp|Q9UJA3|MCM8\_HUMAN DNA helicase MCM8 OS=Homo sapiens GN=MCM8 PE=1 SV=2

MNGEYRGRGFRGRFQSWKRGRRGGNFSGKWREREHRPDL SKTTGKRTSEQTPQFLLSTK  
TPQSMQSTLDRFIPYKGWLYFSEVYSDSSPLIEKIQAFEFTRHIDLKDEIERKGS  
ILVDFKELTEGGEVTNLIPDIATELRDAPEKTLACMGLAIHQVLT KDLERHAAELQAQEG  
LSNDGETMVNVPHIHARVYNYEPLTQLKNVRANYYGKYIALRGTVVRVSNIKPLCTKMAF  
LCAACGEIQSFPLPDGKYS LPTKCPVPVCRGRSFTALRSSPLTVTMDWQSIKIQELMSDD  
QREAGRIPRTIECELVHDLVDSCVPGDVTITGIVKVSNAEEGSRNKNDKCMFLLYIEAN  
SISNSKGQKTKSSEDGCKHGMLMEFSKDL YAIQEIQAENLFLKLVNSLCPVIFGHELV  
KAGLALALFGGSQKYADDKNRIPIRGDPHILVVGDPGLGKSQMLQAACNVAPRGVYVCGN  
TTTTSGLTVTL SKDSSSGDFALEAGALVLGDQGICGIDEFDKMGNQH QALLEAMEQQSIS  
LAKAGVVC SLPARTSIIAAANPVGGHYNKAKTVSENLMKGSALLSRFDLVFILLDTPNEH  
HDHLLSEHVIAIRAGKQRTISSATVARMNSQDSNTSVLEVSEKPLSERLKVVPGETIDP  
IPHQLLRKYIGYARQYVYPRLSTEAA RVLQDFYLELRKQSQR LNSSPITTRQLES LIRLT  
EARARLELREEATKEDAEDIVEIMKY SMLGTYSDEFGNLD FERSQHSGMSNRSTAKRFI  
SALNNVAERTYNNIFQFHQLRQIAKELNIQVADFENFIGSLNDQGYLLKKGPKVYQLQTM

>sp|P15529|MCP\_HUMAN Membrane cofactor protein OS=Homo sapiens GN=CD46 PE=1 SV=3

MEPPGRRECPFPSWRFPGLLLAAMVLLLYSFS DACEEPPTFEAMELIGKPKPYEIGERV  
DYKCKKGYFYIPPLATH TICDRNHTWLPVSDDAC YRETCPIYRDPLNGQAVPANGTYEFG  
YQMHFICNEGYYLIGEEILYCELKG SVAIWSGKPPICEKVLCTPPPKIKNGKHTFSEEV  
FEYLDAVTYSCDPAPGPD PFSLIGESTIYCGDNSVWSRAA PECKVVKCRFPVVEN GKQIS  
GFGKKFYKATVMFEC DKGFYLDGSDTIVCD SNSTWDPPVPKCLKVLPPSSTKPPALSHS  
VSTSSTTKSPASSASGRPTYKPPVS NYPGYPKPEEGILDSLDVWVIAIVIVIAIVGVAV  
ICVVPYRYLQRRKKKGTYLTDETHREV KFTSL

>sp|C9JLW8|MCRI1\_HUMAN Mapk-regulated corepressor-interacting protein 1 OS=Homo sapiens  
GN=MCRI1 PE=1 SV=1

MTSSPSRVVYNGKRTSSPRSPSSSEIFT PAHEENVRFIYEA WQGVRLRGQVPGGER  
GLVEEYVEKVPNPSLKT FKPIDLSDLKRRSTQDAKKS

>sp|P08235|MCR\_HUMAN Mineralocorticoid receptor OS=Homo sapiens GN=NR3C2 PE=1 SV=1

METKGYHSLPEGLDMERRWGQVSQ AVERSSLGPTERTDENNYMEIVNVSCVSGAIPNNST  
QGSSKEKQELLPCLQDNNRPGILTSDIKTELESKELSATVAESMGLYMDSVRDADYSYE  
QQNQQGSMSPAKIYQNVEQLVKFYKGN GHRPSTLSCVNTPLRSFMSDSGSSVNGGVMRAI  
VKSPIMCHEKSPSVCSPLNMTSSVCSPAGINSVSSTTASFGSFPVHSPITQGTPLTCSPN

AENRGSRSHPAHASNVGSPLSSPLSSMKSSISSPPSHCSVKSPVSSPNNVTLRSSVSSP  
ANINNSRCSVSSPSNTNNRSTLSSPAASTVGSICSPVNNAFSYTASGTSAGSSTLRDVVP  
SPDTQEKGAEVPPFKTEEVESAISNGVTGQLNIVQYIKPEPDGAFSSSCLGGNSKINS  
SSFSVPIKQESTKHSCSGTSFKGNPTVNPFPFMDGSYFSFMDKDYYSLSGILGPPVPGF  
DGNCEGSGFPVGIKQEPDDGSYYPEASIPSSAIVGVNCGGQSFHYRIGAQTISLSRSAR  
DQSFQHLSSFPVNTLVESWKS HGDLSRRSDGYPVLEYIPENVSSSTLRSVSTGSSRPS  
KICLVCGEASGCHYGVTTCGCKVFFKRAVEGQHNYLCAGRNDICIIDKIRRKNCPACRL  
QKCLQAGMNLGARKSKKLGLKGIHEEQPQQQPPPPPPPPQSPEEGTTYIAPAKEPSVN  
TALVPQLSTISRALTSPVMVLENIEPEIVYAGYDSSKPDTAENLLSTLNRLAGKQMIQV  
VKWAKVLPGFKNLPLEDQITLIQYSWMCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKM  
HQSAMYELCQGMHQISLQFVRLQLTFEYTIMKVLLLLSTIPKDGLKSQAAFEEMRTNYI  
KELRKMVTKCPNNSGQSWRFYQLTKLLDSMHDLVSDLLEFCFYTFRESHALKVEFPAML  
VEIISDQLPKVESGNAKPLYFHRK

>sp|Q6DN14|MCTP1\_HUMAN Multiple C2 and transmembrane domain-containing protein 1 OS=Homo sapiens GN=MCTP1 PE=2 SV=2

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PVGTCGNAPARGSGAGSRWSGFKKRKQVLDRVFSSSQPNLCCSSPEPLEPGGAGRAEQGST  
LRRRIREHLLPAVKGPAAASGAAGGTPPGRSPDSAPSSSSASSLSSSPQPPPRGDRAR  
DEGARRQGPGAHLCQKSSSLPGTACLEQLLEPPPPPAEPARSPAESRAPETGEEHGSSQ  
KIINTAGTSNAEVPLADPGMYQLDITLRRGQSLAARDRGGTSDPYVKFKIGGKEVFRSKI  
IHKNLNPVWEEKACILVDHLREPLYIKVFDYDFGLQDDFMGSAFLDLTQLELNRPTDVTL  
TLKDPHYPDHDLGIILLSVILTPKEGESRDVTMLMRKSWKRSSKELSENEVVGSYFSVKS  
LFWRTCGRPALPVLGFCRAELQNPYCKNVQFQTQSLRLSDLHRKSHLWRGIVSITLIEGR  
DLKAMDSNGLSDPYVKFRLGHQKYKSKIMPKTLNPQWREQFDFHLYEERGGVIDITAWDK  
DAGKRDDFIGRCQVDLSALSREQTHKLELQLEEGERHLVLLVTLTASATVSISDLSVNSL  
EDQKEREIEILKRYSPLRIFHNLDVGFLQVKVIRAEGLMAADVTGKSDPFCVVELNNDRL  
LTHTVYKNLNPEWNKVFTFNIKDIHSVLEVTVYDEDRDRSADFLGKVAIPLLSIQNGEQK  
AYVLKNKQLTGPTKGVIIYLEDVIFNAVKASLRTLIPKEQKYIEENRLSKQLLLRNFI  
MKRCVMVLVNAAYYVNSCFDWDSPPRSLAAFVLFLFVVWNFELYMIPLVLLLLLTWNYFL  
IISGKDNQRQDVTVEDMLEDEEEEDDKDDKSEKKGFINKIYAIQEVCSVQNILDEVAS  
FGERIKNTFNWTPFLSWLAIVALCVFTAILYCIPLRYIVLVWGINKFTKKLRSPYAIDN  
NELDLFLSRVPSDVQVQYQELKPDPSHPYKRKKNL

>sp|Q86YW9|MD12L\_HUMAN Mediator of RNA polymerase II transcription subunit 12-like protein OS=Homo sapiens GN=MED12L PE=1 SV=2

MAAFGLLSYEQRLKRPLRGPPDVYPQDPKQKEDELTAENVKQGFFNNQPAFTGDEHGSAR  
NIVINPSKIGAYFSSILAELKLNLFQDTGKKKPQVNAKDNVWLVLTARSQSAIHSWFSDL  
AGNKPLSILAKKVPILSKKEDVFAYLAKYSVPMVRATWLKMTCAYYSAISEAKIKKRQA  
PDPNLEWTQISTRYLREQLAKISDFYHMASSTGDGPVPVPPEVEQAMQWEYNEKLAFHM  
FQEGMLEKHEYLTWILDVLEKIRPMDDLLKLLPLMLQYSDEFVQSAYLSRRLAYFCAR  
RLSLLSDSPNLLAAHSPHMMIGPNSSIGAPSPGPPGPMSPVQLAFSDFLSQAQHGPL  
VYGLSCMLQTVTLCCPSALVWNYSTNENKSANPGSPLDLLQVAPSSLPMPGGNTAFNQV  
RARIYEVEQQIKRGRAVEVRWSFDKQCESTAGVTISRVLHTLEVLDHRHCFDRTDSSNSM  
ETLYHKIFWANQNKDNQEVAPNDEAVVTLLCEWAVSCKRSGKHRAMAVAKLLEKRQAEIE  
AERCGESEVLDEKESISSSLAGSSLPVFQNVLLRFLDTQAPSLSDPNSECEKVEFVNLV

LLFCEFIRHDFVSHDAYMCTLISRGLSVTASTRPRSPVGENADEHYSKDHDVKMEIFSP  
MPGESCEANTSLGRMSVNCLEKLVKREKPRELIFPSNYDLLRHLQYATHFPIPLDESSS  
HECNQRTILLYGVGKERDEARHLKKITKDILKILNKKSTTETGVGDEGQKARKNKQETF  
PTLETVFTKLQLLSYFDQHQVTSQISNNVLEQITSFASGTSYHLPLAHHIQLIFDLMEPA  
LNINGLIDFAIQLLNELSVVEAELLLKSSSLAGSYTTGLCVCIVAVLRRYHSCILNPDQ  
TAQVFEGLCGVVKHVNPSECSSEPCILAYLYDLVSCSHLRSKFGDLFSSACSKVKQT  
IYNNVMPANSNLWRDPDFMMDFIENPSARSINYSMLGKILSDNAANRYSFVCNTLMNVCM  
GHQDAGRINDIANFSSELTACCTVLSSEWLGVLKALCCSSNHVWGFNDVLC TVDVSDLSF  
HDSLATFIAIL IARQCSLEDVVQHVALPSLLAAACGDADAEPGARMTCRLLLHLFRAPQ  
ACFLPQATGKPFPGIRSSCDRHLLAAAHNSIEVGAVFAVLKAIMMLGDAKIGNNSVSSLK  
NDDFTMRGLRCDGNADDIWTASQNPKSCGKSISIETANLREYARYVLRTICQEWVGEHC  
LKEPERLCTDKELILDPVLSNMQAQKLLQLICYPHGIKECTEGDNLQRQHIKRILQNLEQ  
WTLRQSWLELQLMIKQCLKDPGSGSVAEMNNLLDNIKATIEVFQQSADLNNSSNSGMSL  
FNPNSIGSADTSSTRQNGIKTFLSSSERRGVWLVAPLIARLPTSVQGRVLKAAGEELEKG  
QHLGSSSKKERDRQKQKMSLLSQQPFLSLVLTCLKGQDEQREGLLTSLNQVNVQILSNW  
REERYQDDIKARQMMHEALQLRLNLVGGMFDTVQRSTQWTTDWALLLQIITSGTVMHT  
NNELFTTVLDMLGVLINGTLASDLNASPGGSEENKRAYMNLVKKLKKELGDKRSEIDK  
VRQLLPLPKQTCDVITCEPMGSLIDTKGNKIAGFDSIDKKQGLQVSTKQKVSPWDLFEGQ  
KNPAPLSWAWFGTVRVDRRIKYEEQHLLLYHTHMPKPRSYYLQPLPLPPEEEEEPT  
SPVSQEPERKSAELSDQGKTTTDEEKKTKGRKRKTKSSSRVDEYPSNIYRVPPNYSPI  
SQMMHHPQSTLWGYNLVGPPQPGFLLQNSLTPGGSRLDPAGSFVPTNTKQALSNNMLQR  
RSGAMMPPSLHAITSQQQLIQMKLLQQQQQRLRLRQAQTRPFQGGQPGDQAALFAAQAR  
PSPQLPQYPGLQQAQTMPQGYTMYGTQMPLQQTSSQQAGSVVLSPSYNSRAYPAAHSPV  
LMERLRQIQQQPSGYVQQQASPYLQPLTGSQRLNHQALQQSPLVGGGIDAVL TSAHPNLP  
SVPLPQDPMRPRQPVRQQQLLQMQQPQPQPQQPPQPQQSSQSQSTLGLQAMQPQQP  
LFPRQGLQQTQQQQTAALVRQLQKQLSSNQPPQQGVTPYGHPSHF

>sp|Q8NFP4|MDGA1\_HUMAN MAM domain-containing glycosylphosphatidylinositol anchor protein

1 OS=Homo sapiens GN=MDGA1 PE=1 SV=1

MEVTCLLLALLIPFHCRCGGVYAPAAQIVHAGQACVVKEDNISERVYTIREGDTLMLQC  
LVTGHPRPQVRWTKTAGSASDKFQETSVFNETLRIERIARTQGGRYYCKAENGVGVP  
AIRVDVQYLDEPMLTVHQTVDVRGNFYQEKTVFLRCTVNSNPPARFIWKRGS  
DLSHSQDNGVDIYEPLYTGQETKVLKLNLRPQDYASYTCQVSVRNVCGIPDKAITFRLTNTTAPP  
ALKLSVNETLVVNPGENVTVQCLLTGGDPLPQLQWSHGPGLPLGALAQQGGLSIPSVQA  
RDSGYYNCTATNNVGNPAKKTVNLLVRSKMKNATFQITPDVIKESENIQLGQDLKLSCHVD  
AVPQEKVTYQWFKNGKPARMSKRLLVTRNDPELPAVTSSLELIDLHFSYDGYLCMASFP  
GAPVPDLSVEVNISSETVPPTISVPKGRAVVTVREGSPAELQCEVRGKPRPPVLWSRV  
DKEAALLPSGLPLEETPDGKLRLERSRDMSTYRCQTARYNGFNVRPREAQVQLNVQFPPE  
VEPSSQDVRQALGRPVLLRCSLLRGSPQRIASAVWRFKGQLLPPPPVVPAAAEAPDHAEL  
RLDAVTRDSSGSYECVSNVDVGSAACLFQVSAKAYSPEFYFDTPNPTRSHKLSKNYSYVL  
QWTQREPDVAVDPVLNRYLSIRQLNQHNNAVKAIPVRRVEKGQLLEYILTLRVPHSYEVR  
LTPYTTFGAGDMASRIIHYTEPINSPNLSDNTHFEDEKICGYTQDLTDNFDWTRQNALT  
QNPKRSPNTGPPTDISGTPEGYYMFIETSRPRELGDRARLVSPLYNASAKFYCVSFFYHM  
YKGHIGSLNLLVRSRNGALDTHAWSLSGNKGNVWQQAHVPISPSGPFQIIFEGVRGPGY  
LGDIAIDDVTLKKGECPRKQTDPNKVVVMPGSGAPCQSSPQLWGPMAIFLLALQR



>sp|O15151|MDM4\_HUMAN Protein Mdm4 OS=Homo sapiens GN=MDM4 PE=1 SV=2

MTSFSTSAQCSTSDSACRISPGQINQVRPKLP LLKILHAAGAQQGEMFTVKEVMHYLGQYI  
MVKQLYDQQEQHMYVCGDLLGELLGRQSFVKDPSPLYDMLRKNLVTLATATDDAAQTL  
ALAQDHSM DIPSDQLKQSAEESSTRKRTTEDDIPTLPTSEHKCIHSREDEDLIENLAQ  
DETSRLDLGFEEWDVAGLPWWFLGNLRSNYTPRSNGSTDLQTNQDVGTAVSDTTDDLWF  
LNEVSSEQLGVGIKVEAADTEQTSEEVGKVSDDKKVIEVGKNDLED SKSLSDDTDVEVTS  
EDEWQCTECKKFNSPSKRYCFRCWALRKDWYSDCSKLTHSLSTDITAIPEKENEGNDVP  
DCRRTISAPVVRPKDAYIKKENS KLFDPCNSVEFLDLAHSSESQETISSMGEQLDNLSEQ  
RTDTENMEDCQNLKPCSLCEKRPDGNIIHGRTGHLVTCFHCARRLKKAGASCPICKKE  
IQLVIKVFIA

>sp|Q13465|MDS1\_HUMAN MDS1 and EVI1 complex locus protein MDS1 OS=Homo sapiens GN=MECOM  
PE=1 SV=1

MRSKGRARKLATNNECVYGNYPEIPLEEMPADGVASTPSLNIQPCSPATSSEAFTPKE  
GSPYKAPIYIPDDIPIPAEFELRESNMPGAGLGIWTKRKIEVGEKFGPYVGEQRSNLKDP  
SYGWEVHLPRRRVSVHSWLYLGRSSDVGIAFSQADVMPGLQCAFLS

>sp|A8K0S8|ME3L2\_HUMAN Putative homeobox protein Meis3-like 2 OS=Homo sapiens GN=MEIS3P2  
PE=2 SV=1

MARRYDELPHYPSIADGPAALAGFPEAVPAAPGPYGPHRPPQPLPPGLSDGLKRDKDEI  
YGHPLFPLLALVFEKCELATCSPRDGAGAGLGTPRGGDVCSSDSFNEDNTAFKQVRSER  
PFFSSNPELDNLMIQAIQVLRFHLLLELEKGKMPIDLVIEDRDGGCREDFEDYPASCLSLP  
DQNNI WIRDHEDSGSVHLGTPGPSSGGLASQSGDNSSDQGVGLDTSVASPSSGGEDEDLD  
QEPRRNKKRGIFPKVATNIMRAWLFQHLWHPYPSEEQKKQLVQDTGLTILQVNNWFINAR  
RRMVQPMIDQSNRIGQGAAFSPEGQPIGGYTETEPHVAFRPPASVGMSLNLEGEWHYL

>sp|Q7Z304|MAMC2\_HUMAN MAM domain-containing protein 2 OS=Homo sapiens GN=MAMDC2 PE=2  
SV=3

MLLRGVLLALQALQLAGALDLPAGSCAFEESTCGFDSVLASLPWILNEEGHYIYVDTSG  
KQGEKAVLLSPDLQAEWESCLRLVYQITTSSESLSDPSQLNLYMRFEDESFDRLLSAKE  
PSDSWLIASLDLQNSSKKFKILIEGVLGQGNTASIALFEIKMTTGICYIECDFEENHLCGF  
VNRWNPVNWVFGGGSIRNVHSILPDHTFKSELGHYMYVDSVYVKHFQEVAAQLISPLTT  
APMAGCLSFYYQIQGNDNVFSLYTRDVAGLYEEIWKADRPGNAAWNLAEEVFSAPYPME  
VIFEVAFNGPKGGYVALDDISFSPVHCNQTELLFSAVEASCNFEQDL CNFYQDKEGPGW  
TRVKVKPNMYRAGDHTTGLGYLLANTKFTSQPGYIGRLYGPSLPGNLQYCLRFHYAIYG  
FLKMSDTLAVYIFEENHVVEKIWSVLES PRGVWMAEITFKKPMPTKVVFM SLCKSFWD  
CGLVALDDITIQLGSCSSSEKLPPPPGECTFEQDECTFTQEKRNRSSWHRRRGETPTS  
GPKGDHTTGVGYYMYIEASHMVYQKARLLSRPLRGVSGKHCLTFFYHMYGGGTGLLSVY  
LKKEEDSEESLLWRRRGEQSI SWLRALIEYSCERQHQIIFEAIRGVSIRSDIAIDDVKFQ  
AGPCGEMEDTTQSSSGYSEDLNEIEY

>sp|Q13495|MAMD1\_HUMAN Mastermind-like domain-containing protein 1 OS=Homo sapiens  
GN=MAMLD1 PE=1 SV=2

MDDWKSRLVIKSMLPHFAMVGNRQEPRKLQESGKKPSWMEEDLSFLYKSSPGRKHQGT  
KRRQEEDHFQFPDMADGGYPNKIKRPCLEDVTLAMGGAHPSTACAELQVPPLTINPSA  
AMGVAGQSLLLENPMNGNIMGSPFVVPQTTEVGLKGPTVPYYEKINSVPAVDQELQELL  
EELTKIQDSPNELDLEKILGTKEEPLVLDHPQATLSTTPKPSVQMSHLESLASSKEFA  
SSCSQVTGMSLQIPSSSTGISYSIPSTSKQIVSPSSSMAQSKSQVQAMLPVALPPLPVPQ

WHHAHQLKALAASKQGSATKQQGTPSWSGLPPPGLSPPYRPVPSPHPPPLPLPPPPPF  
SPQSLMVSCMSSNTLSGSTLRGSPNALLSMTSSSSNAALGPAMPYAPEKLPSPALTQQPQ  
FGPQSSILANLMSSTIKTPQGHLMSALPASNPGSPPYRPEKLSGPGLPQQSFTPQCCLI  
RSLTPTSNLLSQQQQQQQQQQANVIFKPISSNSSKTLSMIMQQGMASSSPGATEPFTFG  
NTKPLSHFVSEPGPQKMPSPPTTSRQPSLLHYLQQPTPTQASSATASSTATATLQLQQQQ  
QQQQQQPDHSSFLQQMMQPPQRFQRSVASDSMPALPRQGCCHLFAWTSAASSVKPQHQH  
GNSFTSRQDPQPGDVSPSNITHVDKACKLGEARHPQVSLGRQPPSCQALGSESFLPGSSF  
AHELARVTSSYSTSEAAPWGSWDPKAWRQVPAPLLPSCDATARGTEIRSYGNDP

>sp|Q96JK9|MAML3\_HUMAN Mastermind-like protein 3 OS=Homo sapiens GN=MAML3 PE=1 SV=4

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GGGSAAPVKHSTVVERLRQRIEGCRHHVNCENRYQQAQVEQLELERRDVSLYQRTLEQ  
RAKKSAGTGKQHPKQPDAAEASAEQRNHTLIMLQETVKKLEGARSPLNGDQNGA  
CDGNFSPTSKRIRKDISAGMEAINNLPSNMPLPSASPLHQLDLKPSLPLQNSGHTPGLL  
EDLSKNRGLPEIKLPVNGCSDLEDSTILQSKDLKQEPLDDPTCIDTSETSLSNQNKLF  
DINLNDQEWQELIDELANTVPEDDIQDLFNEDFEEKKEPEFSQPATETPLSQESASVKSD  
PSHSPFAHVMGSPQARPPSSGPPFSTVSTATSLPSVASTPAAPNPASSPANCAVQSPQT  
PNQAHTPGQAPPRPGNGYLLNPAAVTVAGSASGPVAVPSSDMSPAEQLKQMAAQQQQR  
LMQKQQQQQQQQQQQQQQQQQQQQQQHNSQTSNWSPLGPPSSPYGAAFTAEPNSP  
MMYPQAFNNQNPVPPMANNLQKTTMNNYLPQNHMMINQQPNNLGTNSLNKQHNILTYG  
NTKPLTHFNADLSQRMTTPVANPNKNPLMPYIQQQQQQQQQQQQQQQQQPPPPQLQAPR  
AHLSEDQKRLLLMKQKGVNMQPMAYALPSHGQEQHPVGLPRTTGPMQSSVPPGSGGMVS  
GASPAGPGLGSQPQAAIMQMLIDQRAQLIEQQKQQLREQRQQQQQQQQILAEQQLQ  
QSHLPRQHLQQRNPYPVQVNFQCGSPQDIAAVRSQAALQSMRTSRLMAQNAGMMGIGP  
SQNPGMTATAAAQSEMGLAPYSTTPTSQPGMYNMSTGMTQMLQHPNQS GMSITHNQAQGP  
RQPASGGQGMVSGFGQSMVNSAITQHPQMKGPVGQALPRPQAPPRLQSLMGTVQQGA  
QSWQQRSLQGMPPRTSGELGPFNNGASYPLQAGQPRLTQKHFPGQLSQSVVDANTGTVRT  
LNPAAMGRQMPSLPGQGTSGARPMVMGSLSQGVPGMPAFSQPPAQQQIPSGSFAPSSQ  
SQAYERNAPQDVSYNSYSGDGAGGSFPGLPDGADLVDSIIKGGPGDEWMQELDELFGNP

>sp|Q9Y2U8|MAN1\_HUMAN Inner nuclear membrane protein Man1 OS=Homo sapiens GN=LEMD3 PE=1  
SV=2

MAAAAASAPQQLSDEELFSQLRRYGLSPGPVTESTRPVYLKKLKKLREEEQQHRSGGRG  
NKTRNSNNNTAAATVAAAGPAAAAAGMVRPVSGDLSYLRTPGGLCRISASGPESLLG  
GPGGASAAPAGSKVLLGFSSDESDEASPRDQAGGGGRKDRASLQYRGLKAPPAPLAAS  
EVTNSNSAERRKPHSWWGARRPAGPELQTPPGKDGADEDEEGEDGEERDPETEEPLWA  
SRTVNGSRLVPYSCRENYSDSEEDDDDVASSRQVLKDDSLSRHRPRRTHSKPLPPLTAK  
SAGGRLETSVQGGGLAMNDRAAAAGSLDRSRNLEAAAAEQGGGCDQVDSSPVPRYRVN  
AKKLTPLLPPLTDMDSLSTGSLKTNNHIGGAFSVDSPRIYSNSLPPSAVAASS  
SLRINHANHTGSNHTYLNKTYNPKLSEPEEELLQQFKREEVSPTGSFSAHYLSMFLTA  
ACLFFLILGLTYLGMRTGVSEDELSIENPFGETFGKIQESEKTLMMNTLYKLHDRLAQ  
LAGDHCEGSSSRQLSVQEAAYLKDLGPEYEGIFNTSLQWILENGKDVGIRCVGFGPEE  
ELTNITDVQFLQSTRPLMSFWCRFRRAFTVTVHRLLLCLGVVMVCVVLRYMKYRWTKEE  
EETRQMYDMVKIIDVLRSHNEACQENKDLQPYMPIPHVRDSLIPHDRKKMKKVVWDRAV  
DFLAANESRVRTETRRIGGADFLVWRWIQPSASCDKILVIPSKVWQGQAFHLDRNSPPN  
SLTPCLKIRNMFDPVMEIGDQWHLAIQEAILEKCSNDGIVHIAVDKNSREGCVYVKCLS

PEYAGKAFKALHGSWFDGKLTVKYLRDLRYHHRFPQALTSNTPLKPSNKHMSMSHLRL  
RTGLTNSQGSS

>sp|Q49MG5|MAP9\_HUMAN Microtubule-associated protein 9 OS=Homo sapiens GN=MAP9 PE=1 SV=3

MSDEVFSTTLAYTKSPKVTKRITTFQDELIRAITARSARQRSSEYSDDFDSDEIVSLGDFS  
DTSADENSVNKKMDFHISDDEEKNPSKLLFLKTNKSNGNITKDEPVCAIKNEEEMAPDG  
CEDIVVKSFSSESQNKDEEFKDKIKMKPKPRILSIKSTSSAENNSLTDHFKPSRPRRS  
MLKKKSHMEEKDGLDEKETALSEELELHSAPSSLPTNGIQLEAEKKAFSENLDPEDSCL  
TSLASSSLKQILGDSFSPGSEGNASGKDPNEEITENHNSLKSDENKENSFSADHVTTAVE  
KSKESQVTADDLEEEKAKAELIMDDRTVDPLLSSKSQSILISTSATASSKKTIEDRNIKN  
KKSTNNRASSASARLMTSEFLKKSSSKRRTPTTTSSHYLGLTKVLDQKPSQKQSI EPDR  
ADNIRA VYQEWLEKKNVYLHEMHRIKRIESENLRIQNEQKKAAREEALASFEAWKAMK  
EKEAKKIAAKKRLEEKNNKKTEEENAAARKGEALQAFKWKKEKKMEYLKEKNRKEREYERA  
KKQKEEETVAEKKKDNLTAVEKWNEKKEAFFKQKEKEKINEKRKEELKRAEKKDKDKQAI  
NEYEKWLENKEKQERIERKQKKRHSFLESEALPPWSPPSRTVFAKV

>sp|Q15555|MARE2\_HUMAN Microtubule-associated protein RP/EB family member 2 OS=Homo sapiens GN=MAPRE2 PE=1 SV=1

MPGPTQTLSPNGENNDIIQDNNGTIIPFRKHTVRGERSYSWGMVNVYSTSITQETMSR  
HDIIA VVNDIVSLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHEYIHNFKL  
LQASFKR MNVDKVIPVEKLVKGRFQDNLDFIQWFKKFYDANYDGKEYDPVEARQQQDAIP  
PPDPGEQIFNLPKKSHHANSPTAGAAKSSPAAPGSTPSRPSSAKRASSSGSASKSDKDL  
ETQVIQLNEQVHSLKLALLEGVEKERDFYFGKLREIELLCQEHGQENDDLVRQLMDILYAS  
EEHEGHTEEPEAEQAHEQQPPQEEY

>sp|Q86YJ5|MARH9\_HUMAN E3 ubiquitin-protein ligase MARCH9 OS=Homo sapiens GN=MARCH9 PE=1 SV=2

MLKSRLRMFLNELKLLVLTGGGRPRAEPQPRGGRGGGCGWAPFAGCSTRDGDGDEEEYYG  
SEPRARGLAGDKEPRAGLPPPPAPPLPPPGALDALSSSLDGLRTPQCRICFQGPEQG  
ELLSPCRCDGSVRCTHQPCILRWISERGSWSCELCYFKYQVLAISTKNPLQWQAISLTVI  
EKVQIAAIVLGSFLVASISWLWSSLSPSAKWQRQDLDFQICYGMYGFMDVVCIGLIH  
EGSSVYRIFKRWQAVNQWQVLYNDKTKDIGDAGGGTAGKSGPRNSRTGPTSGATSRPP  
AAQRMRTLLPQRCGYTILHLLGQLRPPDARSSSHSGREVVMRVTTV

>sp|P27448|MARK3\_HUMAN MAP/microtubule affinity-regulating kinase 3 OS=Homo sapiens GN=MARK3 PE=1 SV=4

MSTRTPPTVNERTENHTSHGDGRQEVTSRTSRSGARCRNSIASCADQPHIGNYRLK  
TIGKGNFAKVKLARHILTGREVAIKI IDKTQLNPTSLQKLFREVRIMKILNHPNIVKLFE  
VIETKTLYLIMEYASGGEVFDYLVAHGRMKEKEARSKFRQIVSAVQYCHQKRIVHRDLK  
AENLLDADMNIKIADFGFSNEFTVGGKLDTCGSPPYAAPELFQGKKYDGPEVDVWSLG  
VILYTLVSGSLPFDGQNLKELRERVLRGKYRIPFYMSTDCENLLKRFLVLNPIKRGTL EQ  
IMKDRWINAGHEEDELKPFVEPELDISDQKRIDIMVGMGYSQEEIQESLSKMKYDEITAT  
YLLGRKSSELDASDSSSSNLSLAKVRPSSDLNNTGQSPHHKVQRSVFSSQKQRRYSD  
HAGPAIPSVVAYPKRSQTSTADSDLKEDGISSRKSSGSAVGGKGIAPASPMLGNASPNK  
ADIPERKKSSTVPSSNTASGGMTRRNTYVCSERTTADRHSVIQNGKENSTIPDQRTPVAS  
THSISAAATPDRI RFPRTASRSTFHGQPRERRTATYNGPPASPSLSHEATPLSQTRSRG  
STNLF SKLTSKLTRRNSFRFIKRLPTEYERNGRYEGSSRNVS AEQDENKEAKPRSLRF  
TWSMKTTSMDPGDMMREIRKVL DANNCDYEQRERFLLFCVHGDGHAENLVQWEMEVC KL

PRLSLNGVRFKRISGTSIAFKNIASKIANELKL

>sp|Q6P0Q8|MAST2\_HUMAN Microtubule-associated serine/threonine-protein kinase 2 OS=Homo sapiens GN=MAST2 PE=1 SV=2

MKRSRCRDRPQPPPPDRREDGVQRAAELSQSLPPRRRAPPGQRLEERTGPAGPEGKEQD  
VVTGVSPLLFRKLSNPDIFSSTGKVKLQRQLSQDDCKLWRGNLASSLSGKQLPLSSSVH  
SSVGQVTWQSSGEASNLVRMRNQLGQSAPSLTAGLKELSLPRRGSFCRTSNRKSLIVTS  
STSTPLPRPHSPLHGHTGNSPLDSPRNFSNAPAHFSFVPARRTDGRRWLASLPSSGYG  
TNTPSSTVSSSCSSQEKHLQLPFQPTADELHFLTKHFSTESVPDEEGRQSPAMRPRSRL  
SPGRSPVSFDSEIIMNHVYKERFPKATAQMEERLAEFISSNTPDSVLPLADGALSFIHH  
QVIEMARDCLDKSRSLITSQYFYELQDNLEKLLQDAHERSESSEVAFVMQLVKKLMII  
ARPARLLECLEFDPPEEFYHLLAAEGHAKGQGIKCDIPRYIVSQLGLTRDPLEEQAQLS  
SCDSPDTPETDDSIIEGHGASLPSKKTPEEDFETIKLISNGAYGAVFLVRHKSTRQRFAM  
KKINKQNLILRNQIQQAFVERDILTFAENPFVVMFCSFDTKRHLCMVMEYVEGGDCATL  
LKNIGALPVDMLVLYFAETVLALLEYLHNYGIVHRDLKPDNLLITSMGHIKLTDFGLSKIG  
LMSLTNNLYEGHIEKDAREFLDKQVCGTPEYIAPEVILRQGYGKPDWWAMGIILYEFLV  
GCVPFPGDTPEELFGQVISDEIVWPEGDEALPPDAQDLTSKLLHQNPLERLGTGSAYEVK  
QHFFFTGLDWTGLLRQKAEIFPQLESEDDTSYFDTRSERYHHMDEDEEEVSEDGCLEIR  
QFSSCSPRFNKVYSSMERLSLLEERTTPPTKRSLSEEKEDHSDGLAGLKGRDRSWVIGS  
PEILRKRLSVSESSHTESDSSPPMTVRRRCSGLLDAPRFPEGPEEASSTLRRQPQEGIWV  
LTPPSGEGVSGPVTESGGEQRPKLDEEAVGRSSGSSPAMETRGRGTSQLAEGATAKAISD  
LAVRRARHRLSGDSTEKRTARPVNKVIKSASATALSLLIPSEHHTCSPLASPMSPHSQS  
SNPSSRDSSPSRDFLPALGSMRPPIIHRAGKKYGFTLRAIRVYMGDSDVYTVHHMVWHV  
EDGGPASEAGLRQGDLITHVNGEPVHGLVHTEVVVELILKSGNKVAISTPLENTSIKVGP  
ARKGSYKAKMARRSKRSRGKDGQESRKRSSLFRKITKQASLLHTSRSLSSLNRSLSSGES  
GPGSPTHSHSLSPRSPTQGYRVTPDAVHSVGGNSSQSSSPSSVPSSPAGSGHTRPSSLH  
GLAPKLQRQYRSPRRKSAGSIPLSPLAHTPSPPPPTASPQRSPSPLSGHVAQAFPTKLHL  
SPPLGRQLSRPKSAEPPRSPLLKRVQSAEKLAALAASEKKLATSRKHSLDLPHSELKKE  
LPPREVSPLEVVGARSVLGKGALPGKGVLPAPSRLGTLRQDRAERRESLQKQEAIRE  
VDSEDDTEEGPENSQGAQELSLAPHPEVSQSVAPKGAGESGEEDPFPSRDPRSLGPMVP  
SLLTGITLGPPEMESPSGPHRRLGSPQAIEEAASSSSAGPNLQSGATDPIPEGCWAQ  
HLHTQALTALSPSTSGLTPTSSCSPSSSTSGKLSMWKSLIEGPDRAFPSRKATMAGGL  
ANLQDLENTTPAQPKNLSPREQGTQPPSAPRLAHPSEYEDPSQGWLESECAQAVKEDPA  
LSITQVPDASGDRRQDVPCRCPLTQKSEPSLRRGQEPGGHQKHRDLALVPDELLKQT

>sp|Q96EH3|MASU1\_HUMAN Mitochondrial assembly of ribosomal large subunit protein 1 OS=Homo sapiens GN=MALSU1 PE=1 SV=1

MGPGRVARLLAPLMWRRRAVSSVAGSAVGAEPGLRLLAVQRLPVGA AFCRACQTPNFVRG  
LHSEPLEERAEGTVNEGRPESDAADHTGPKFDIDMMVSLLRQENARDICVIQVPEMRY  
TDYFVIVSGTSTRHLHAMAFYVVKMYKHLKCKRDPHVKIEGKDTDDWLCVDFGSMVIHLM  
LPETREIYELEKLWTLRSYDDQLAQIAPETVPEDFILGIEDDTSSVTPVELKCE

>sp|Q9NZL9|MAT2B\_HUMAN Methionine adenosyltransferase 2 subunit beta OS=Homo sapiens GN=MAT2B PE=1 SV=1

MVGREKELSIHFVPGSCRLVEEEVNIPNRRVLVTGATGLLGRAVHKEFQQNNWHAVGCGF  
RRARPKEQVNLDSNAVHHI IHDFQPHVIVHCAAERRPDVVENQPDAASQLNVDASGNL  
AKEAAAVGAFLIYISSDYVFDGTPPYREEDIPAPLNLYGKTKLDGEKAVLENNLGA AVL

RIPILYGEVEKLEESAVTVMFDKVFQSNKSANMDHWQRFPTHVKDVATVCRQLAEKRML  
DPSIKGTFHWSGNEQMTKYEMACAIADAFNLPSSHLRPITDSPVLGAQRPRNAQLDCSKL  
ETLGIGQRTPFIRIGIKESLWFLIDKRWRQTVFH

>sp|P42679|MATK\_HUMAN Megakaryocyte-associated tyrosine-protein kinase OS=Homo sapiens  
GN=MATK PE=1 SV=1

MAGRGSLSVSWRAFHGCDSAEELPRVSPRFLRAWHPPPVSARMPTRRWAPGTQCITKCEHT  
RPKPGELAFRKGDDVTILEACENKSWYRVKHHTSGQEGLLAAGALREREALSADPKLSLM  
PWFHGKISGQEAQQQLQPPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTI  
DEAVFFCNLMDMVEHYSKDKGAICTKLVRPKRKHGTSAAEELARAGWLLNLQHLTGAQ  
IGEGEFGAVLQGEYLGQKQVAVKNIKCDVTAQAFLETAVMTKMQHENLVRLGVILHQGL  
YIVMEHVSCKNLVNLRTGRALVNTAQLLQFSLHVAEGMEYLESKKLVHRDLAARNILV  
SEDLVAKVSDFGLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVVSFGVLLWEVFSY  
GRAPYPKMSLKEVSEAVEKGYRMEPEGCPGVHVLMSSCWEAEPARRPPFRKLAEKLAR  
ELRSAGAPASVSGQDADGSTSPRSQEP

>sp|Q9UIS9|MBD1\_HUMAN Methyl-CpG-binding domain protein 1 OS=Homo sapiens GN=MBD1 PE=1  
SV=2

MAEDWLDCPALGPGWKRREVFRRKSGATCGRSDTYYSPTGDIRSKVELTRYLGACDLT  
LFDKQGLCYLPAPKAHPVAVASKKRKKPSRPAKTRKRQVGPQSSEVRKEAPRDETKADT  
DTAPASFPAPGCCENCGISFSGDGTQRQLKTLCKDCRAQRIAFNREQRMFKRVGCGECA  
ACQVTEDCGACSTCLLQLPHDVASGLFCKCERRRCLRIVERSRGCGVCRGCQTQEDCGHC  
PICLRPPRPLRRQWKCVQRRCLRGKHARRKGGCDSKMAARRRPGAQLPPPPPSQSPEP  
TEPHPRALAPSPPAEFIYYCVDEDELQPYTNRRQNRKCGACAACLRMDCGRCDFCCDKP  
KFGGSNQKRQKCRWRQCLQFAMKRLLPSVWSESEDGAGSPPPYRRRKRPSSARRHHLGPT  
LKPTLATRTAQPDHTQAPTKQEAGGGFVLPPTDLDVFLREGASSPVQVPGPVAASTEAL  
LQEAQCSGLSVVVALPQVKQEKADTQDEWTPGTAVLTSPVLVPGCPSKAVDPGLPSVKQE  
PPDPEEDKEENKDDASKLAPEEEAGGAGTPVITEIFSLGGTRFRDPAVWLPKSKDLKKP  
GARKQ

>sp|A4D2B0|MBL1\_HUMAN Metallo-beta-lactamase domain-containing protein 1 OS=Homo sapiens  
GN=MBL1 PE=1 SV=1

MRTEPLCGASPLLVPGDPYSVVVLLQGYAEPEGVGDVAVRADGSVTLVLPQTRGPASSHRE  
SPRSGSGAEAALEEAARGPILVDTGGPWAREALLGALAGQGVAPGDVTLVVGTHGSDHI  
GNLGLFPGAALLVSHDFCLPGGRYLPHGLGEGQPLRLPGLEVWATPGHGGQRDVSVVVA  
GTALGTVVVAGDVFERDGEDSWQALSEDPAAQERSRKRVLVADVVPVGHGPPFRVLRE  
ASQPETEGGNSQEPVVGDEEPALH

>sp|A2RUH7|MBPHL\_HUMAN Myosin-binding protein H-like OS=Homo sapiens GN=MYBPHL PE=1 SV=2

MEATAPEVAAGSKLVKEASPADAEPQASPGQGAGSPTQLLPPIEEHPKIWLPRALR  
QTYIRKVGDTVNLLIPFQGKPKPQAIWTHDGCALDTRRVSVRNGEQDSLFIQEAQRADS  
GRYQLRVQLGGLEATATIDILVIERPGPPQSIKLVVWGFSALEWTPPDGTNTALLGY  
TVQKADTKSGLWFTVLEHYHRTSCIVSDLIIGNSYAFRVFAENQCGLSETAPITDLAHI  
QKAATVYKTKGFAQRDFSEAPKFTQPLADCTTVTGYNQQLFCCVRASPRPKIIWLKNKMD  
IQGNPKYRALTHLGICSLIRKPGPFDDGIYTCKAVNPLGEASVDCRVDPKVPN

>sp|Q6VMQ6|MAF1\_HUMAN Activating transcription factor 7-interacting protein 1 OS=Homo  
sapiens GN=ATF7IP PE=1 SV=3

MDSLEEPQKKVFKARKTMRVSDRQQLQLEAVYKVKELLKTDVKLLNGNHENGDLPTSPL

NMDYIKDKEEVNGIEEICFDPEGSKAEWKETPCILSVNVKNKQDDDLNCEPLSPHNITPE  
PVSKLPAEPVSGDPAPGDL DAGDPASGVLASGDSTSGDPTSSEPSSSDAASGDATSGDAP  
SGDVSPGDATSGDATADDLSSGDPTSSDPIPGEPVPVEPISGDCAADDIASSEITSVDLA  
SGAPASTDPASDDLASGDLSSSELASDDLATGELASDEL TSESTFDRTFEPKSVPVCEPV  
PEIDNIEPSSNKDDDFLEKNGADEKLEQIQSKDSLDEKNKADNNIDANEETLETDDTTIC  
SDRPPENEKKVEEDIITELALGEDAIISSMEIDQGEKNEDETSADLVETINENVIEDNKS  
ENILENTDSMETDEIIPILEKLAPSEDELTCFSKTSLLPIDETNPDL EKMESSFGSPSK  
QESSESLPKEAFLVLSDEEDISGEKDESEVISQNETCSPAEVESNEKDNKPEEEEEQVIHE  
DDERPSEKNEFSRRKRKSEDMDNVQSKRRRYMEEYEAEFQVKITAKGDINQKLQKVIQ  
WLLEEKLCALQCAVFDKTLAELKTRVEKIECNKRHKTVLTELQAKIARLTKRFEAAKEDL  
KKRHEHPNPVSPGKTVNDVNSNNMSYRNAGTVRQMLESKRNVSESAPPSFQTPVNTV  
SSTNLVTPPAVVSSQPKLQTPVTSGLTATSVLPA NTATV VATTQVPSGNPQPTISLQP  
LPVILHVPVAVSSQPQLQSHPGTLVTNQPSGNVEFISVQSPPTVSGLTKNPVSLPSLPN  
PTKPNNVSPVSPSIQRNPTASAAPLGTTLAVQAVPTAHSIVQATRTSLPTVGPSGLYSP  
STNRGPIQMKIPISAFSTSSAAEQNSNTTPRIENQTNKTIDASVSKAADSTSQC GKATG  
SDSSGVIDLTMDDEESGASQDPKKNHTPVSTMSSQPVSRPLQPIQPAPPLQPSGVPTS  
GPSQTTIHLLPTAPTTVNVTHRPVTQVTTRLPVPRAPANHQVYTTLPAPPAQAPLRGTV  
MQAPAVRQVNPQNSVTVRVPQTTTYVVNNGLT LGSTGPQLTVHHRPPQVHTEPPRPVHPA  
PLPEAPQPQRLPPEAASTSLPQKPHLKLARVQSQNGIVLSWSVLEVD RSCATVDSYHLYA  
YHEEPSATVPSQWKKIGEVKALPLPMACTLTQFVSGSKYF FAVRAKDIYGRFGPFCDPQS  
TDVISSTQSS

>sp|Q9HCC0|MCCB\_HUMAN Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial OS=Homo sapiens GN=MCCC2 PE=1 SV=1

MWAVLRLALRPCARASPAGPRAYHGDSVASLGTQPD LGSALYQENYQMKALVNQLHERV  
EHIKLGGGEKARALHISRGKLLPRERIDNLIDPGSPFLELSQFAGYQLYDNEEVPGGGII  
TGIGRVS GVECMIIANDATVKG GAYYPVT VKKQLRAQEIAMQNRLPCIYLVDSGGAYLPR  
QADVFPDRDHFGRTFYNQAIMSSKNIAQIAVVMGSCTAGGAYVPAMADENIIVRKQGTIF  
LAGPPLVKAATGEEVSAEDLG GADLHCRKSGVSDHWALDDHHLHLTRKVVRNLNYQKKL  
DVTIEPSEELPFADELYGIVGANLKRSFDVREVIARIVDGSRFTEFKAFYGDTLVTGFA  
RIFGYPVGIVGNNGVLFSESAKKGTHFVQLCCQRNIPLLF LQNITGFMVGREYEAEGIAK  
DGAKMVA AVACAQVPKITLIIGSYGAGNYMCGRAYS PRFLYIWP NARISVMGGEQAAN  
VLATITKQQRAREGKQFSSADEAALKEPIIKKFEEEGNPYYSSARVWDDGIIDPADTRLV  
LGLSFSAALNAPIEKTDGFI RM

>sp|O43148|MCES\_HUMAN mRNA cap guanine-N7 methyltransferase OS=Homo sapiens GN=RNMT PE=1 SV=1

MANSAKAE EYEKMSLEQAKASVNSETESSFNINENTTASGTGLSEKTSVCRQVDIARKRK  
EFEDDLVKESSSCGKDTPSKKRKLDP EIVPEEKDCGDAEGNSKKRKR ETEDVPKDKSSTG  
DGTQNKRKIALEDVPEKQKNLEEGHSSTVA AHYNELQEVGLEKRSQSRIFYLRNFNNWMK  
SVLIGEFLEKVRQKKKR DITVLDLGCGKGDLLKWKGRINKLVCTDIADVSVKQCQQR Y  
EDMKNRRDSEYIFSAEFITADSSKELLIDKFRDPQMCFDICSCQFVCHYSFESYEQADMM  
LRNACERLSPGGYFIGTTPNSFELIRRLEASETESFGNEIYTVKFQKKGDYPLFGCKYDF  
NLEGVVDVPEFLVYFPLL NEMAKKYNM KLVYKKTLEFYE EKIKNENKMLLKRMQALEP  
YPANESSKL VSEKVD DYEHA AKYMKNSQVRLPLGTLSKSEWEATSIYLVFAFEKQQ

>sp|O15068|MCF2L\_HUMAN Guanine nucleotide exchange factor DBS OS=Homo sapiens GN=MCF2L  
PE=1 SV=2

MFDCWRFILCKRPGSNSYSSPQRPNEAKKEETDHQIDVSDVIRLVQDTPEATAMATDEIM  
HQDIVPLCAADIQDQLKKRFAYLSGGRGQDGSPVITFPDYPAFSEIPDKEFQNVMTYLT  
IPSLQDAGIGFILVIDRRRDKWTSVKASVLRIAASFANLQLVLVLRPTGFFQRTLS  
FKFNRDDFKMKVPVIMLSSVPDLHGYIDKSQLTEDLGGTLDYCHSRWLCQRTAIESFALM  
VKQTAQMLQSFGTELAETELPNDVQSTSSVLCATHEKKDKAKEDLRLALKEGHSVLES  
ELQAEGSEPSVNQDQLDNQATVQRLLAQLNETEAADEFWAKHQKLEQCLQLRHFEGGF  
REVKAILDAASQKIATFTDIGNSLAHVEHLRLDLASFEEKSGVAVERARALSLDGEQLIG  
NKHYAVDSIRPKCQELRHLCDQFSAEIAARRRGLLSKSLELHRRLETSMKWCDEGIYLLAS  
QPVDKCQSQDGAEEALQEIEKFLETGAENKIQELNAIYKEYESILNQDLMEHVRKVFQKQ  
ASMEEVFHRQASLKKLAARQTRPVQPVAPRPEALAKSPCSPGIRRGSENSSSEGGALR  
RGPYRRAKSEMSESQRGRGSAGEEEESLAILRRHVMSSELLDTERAYVEELLCVLEGYAAE  
MDNPLMAHLLSTGLHNKDVDLFGNMEEIYHFHNRIFLRELENYTDCPELVGRCFLERMED  
FQIYEKYCQNKPRSESLWRQCSDCPFFQECQQRKLDHKLSDSYLLKPVQRITKYQLLLKE  
MLKYSRNCEGAEDLQEALSSILGILKAVNDSMHLIAITGYDGNLGDGKLLMQGSFSVWT  
DHKRGHTKVKELARFKPMQRHLFLHEKAVLFCKKRENGEGYEKAPSYSYKQSLNMAAVG  
ITENVKGDAKKFEIWYNAREEVYIVQAPTPEIKAAWVNEIRKVLTSQLQACREASQHRAL  
EQSQSLPLPAPTSTSPSRGNSRNIKKLEERKTDPLSLEGYVSSAPLTKPPEKKGWSKTS  
HSLEAPEDDGGWSSAEEQINSSDAEEDGGLGPKKLVPGKYTVVADHEKGGPDALRVRSGD  
VVVLVQEGDEGLWYVRDPTTGKEGWVPASSLSVRLGPSGSAQCLSSSGKAHVPRHP

>sp|Q16048|MCHL1\_HUMAN Putative pro-MCH-like protein 1 OS=Homo sapiens GN=PMCHL1 PE=5  
SV=2

MLSQKPKKKHNLNHLNGLSLNLVIKPYLALEGSVAFPAENGVDTESTQEKRETGDEENSA  
KFPVGRRDFDTLSCMLGRVYQSCWQV

>sp|Q9BQD1|MCHL2\_HUMAN Putative pro-MCH-like protein 2 OS=Homo sapiens GN=PMCHL2 PE=5  
SV=1

MLSQKTKKKHNLNHLNGLSLNLVIKPYLALEGSVAFPAENGVDTESTLEKRETGDEENSA  
KFPIGRRDFDTLRCMLGRVYQRCWQV

>sp|Q99705|MCHR1\_HUMAN Melanin-concentrating hormone receptor 1 OS=Homo sapiens GN=MCHR1  
PE=1 SV=2

MSVGAMKKGVGRAVGLGGSGCQATEEDPLPNCGACAPGGGRRWRLPQPAWVEGSSARL  
WEQATGTGWMDEASLLPTGPNASNTSDGPDNLTSAGSPPTGSGISYINIIMPSVFGTIC  
LLGIIGNSTVIFAVVKSKLHWCNNVPDIFIINLSVVDLLFLLGMPFMIHQLMGNGVWHF  
GETMCTLITAMDANSQFTSTYILTAMAIIDRYLATVHPISSTKFRKPSVATLVICLLWALS  
FISITPVWLYARLIPFPGGAVGCGIRLPNPDTDLWFTLYQFFLAFALPFVVITAAYVRI  
LQRMTSSVAPASQRSIRLRTKRVRTAIAICLVFFVCWAPYYVLQTLQLSISRPTLTFVY  
LYNAAISLGYANSCLNPFVYIVLCETFRKRLVLSVKPAAQGQLRAVSNAQTADEERTESK  
GT

>sp|Q969V1|MCHR2\_HUMAN Melanin-concentrating hormone receptor 2 OS=Homo sapiens GN=MCHR2  
PE=1 SV=1

MNPFHASCWNTSAELLNKSWNKEFAYQTASVVDTVILPSMIGIICSTGLVGNILIVFTII  
RSRKKTVPDIYICNLAVADLVHIVGMPFLIHQWARGGEWVFGGPLCTIITS�DTCNQFAC  
SAIMTVMSVDRYFALVQPFRLTRWRTRYKTIRINLGLWAASFILALPVWVYSKVIKFKDG

VESCAFDLTSPDDVLWYTYLTITTTFFPLPLILVCYILILCYTWEMYQQNKDARCCNPS  
VPKQRMKLTkmVLVLVVVFILSAAPYHVIQLVNLQMEQPTLAFYVGYLSICLSYASSS  
INFLYILLSGNFQKRLPQIQRRATEKEINNMGNTLKSHF

>sp|P25205|MCM3\_HUMAN DNA replication licensing factor MCM3 OS=Homo sapiens GN=MCM3 PE=1  
SV=3

MAGTVLDDVELREAQRDYLDLDDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRKNEK  
RANRLNNAFEELVAFQRAKDFVASIDATYAKQYEEFYVGLGSGSKHVSPTLTSCF  
LSCVVCVEGIVTKCSLVRPKVRSVHYCPATKKTIERRYSDLTTLVAFPSSSVYPTKDEE  
NNPLETEYGLSVYKDHQTTITIQEMPEKAPAGQLPRSDVILDDDLVDKAKPGDRVQVVG  
YRCLPGKKGGYTSGTFRTVLIACNVKQMSKDAQPSFSAEDIAKIKKFSKTRSKDIFDQLA  
KSLAPSIHGHDYVKAILCLLLGGVERDLENGSHIRGDINILLIGDPSVAKSQLLRVLC  
TAPRAIPTTGRGSSGVLTAAVTTDQETGERRLEAGAMVLADRGVVCIDFDDKMSMDRT  
AIHEVMEQGRVTIAKAGIHARLNARCSVLAAANPVYGRYDQYKTPMENIGLQDSLLSRFD  
LLFIMLDQMDPEQDREISDHVLRMHRYRAPGEQDGDAMPLGSAVDILATDDPNFSQEDQQ  
DTQIYEKHDNLLHGTHKKKKEKMSAAFMKKYIHVAKI IKPVLQESATYIAEYSRLRSQ  
DSMSSDTARTSPVTARTLETIRLATAHAKARMSKTVDLQDAEEAVELVQYAYFKKVLEK  
EKKRKKRSEDESETEDEEEKSQEDQEQRKRRKTRQPDAGDGSYDPYDFSDTEEMPQV  
HTPKTADSQETKESQKVELSESRLKAFKVALLDVFEAHAQSIGMNRLTESINRDSEEPF  
SSVEIQAALSKMQDDNQVMVSEGIIFLI

>sp|Q14566|MCM6\_HUMAN DNA replication licensing factor MCM6 OS=Homo sapiens GN=MCM6 PE=1  
SV=1

MDLAAAEPGAGSQHLEVRDEVAEKCQKLFLDFLEEFQSSDGEIKYLQLAEELIRPERNT  
LVVSFVDLEQFNQQLSTTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTR  
HKIRELTSSRIGLLTRISGQVVRTHPVHPELVSGTFLCLDCQTVIRDVEQQFKYTQPNIC  
RNPVCANRRRFLDNTKSRFVDFQKVRIQETQAELPRGSIPRSLEVILRAEAVESAQAGD  
KCDFTGT LIVVPDVS KLSTPGARAETNSRVSGVDGYETEGIRGLRALGVRDLSYRLVFLA  
CCVAPTNPFRGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNLCTSLFPTIHG  
NDEVKRGVLLMLFGGVPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTS  
GKASSAAGLTAAVRDEESHEFVIEAGALMLADNGVCCIDFDDKMDVRDQVAIHEAMEQQ  
TISITKAGVKATLNARTSILAAANPISGHYDRSKSLKQNINLSAPIMSRFDLFFILVDEC  
NEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH  
LRQRDGSQVTKSSWRITVRQLESMIRLSEAMARMHCCDEVQPKHVKEAFRLNKSIIIRVE  
TPDVNLDQEEEIQMEVDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASRLGFSEY  
CRISNLIVLHLRKVEEEEDESALKRSELVNWYLKEIESEIDSEEELINKKRIIEKVIHRL  
THYDHVLIELTQAGLKGSTEGSESYEEDPYLVVNPNYLLED

>sp|P08183|MDR1\_HUMAN Multidrug resistance protein 1 OS=Homo sapiens GN=ABCB1 PE=1 SV=3

MDLEGDRNGGAKKNFFKLNNKSEKDKKEKKPTVSVFSMFRYSNWLDKLYMVVGTAAII  
HGAGLPLMMLVFGEMTDIFANAGNLEDLMSNITNRSNDINDTGFFMNLEEDMTRYAYYSG  
IGAGVLAAAIQVSFWCLAAGRQIHKIRKQFFHAIMRQEIGWFDVHDVGELNTRLTDDVS  
KINEGIDGKIGMFFQSMATFFTGFIVGFTRGWKLTIVILAI SPVLGLSAAVWAKILSSFT  
DKELLAYAKAGAVAEVLAARTVIAFGGQKKELERYNKNLEEAKRIGIKKAITANISIG  
AAFLLIYASYALAFWYGTTLVLSGEYSIGQVLTVFFSVLIGAFSVGQASPSIEAFANARG  
AAYEIFKIIDNKPSIDSYSKSGHKPDNIKGNLEFRNVHFSYPSRKEVKILKGLNLKVQSG  
QTVALVGNSGCGKSTTVQLMQRLYDPTGEMVSVDGQDIRTINVRFLREIIGVVSQEPVLF



ATTIAENIRYGRENTMDEIEKAVKEANAYDFIMKLPHKFDTLVGERGAQLSGGQKQRIA  
IARALVRNPKILLLDEATSALDTESEAVVQVALDKARKGRTTIVIAHRLSTVRNADVIAG  
FDDGVIVEKGNHDELMKEKGIYFKLVMTQTAGNEVELENAADESKSEIDALEMSSNDSRS  
SLIRKRSTRRSVRGSQAQDRKLSTKEALDESIPPVSFWRIMKLNLTWPYFVVGVFCAII  
NGGLQPAFAIIFSKIIGVFTRIDDPETKRQNSNLSLLFLALGIISFITFFLQGFTFGKA  
GEILTKRLRYMVFRSMLRQDVSWFDDPKNTTGALTTRLANDAAQVKGAGSRLAVITQNI  
ANLGTGIIISFIYGWQLTLLLLAIVPIIAIAGVVEMKMLSGQALKDKKELEGSGKIA TEA  
IENFRTVVS LTQE QKF EHM YAQSLQVPYRNSLRKAHIFGITFSFTQAMMYFSYAGCFRFG  
AYLVAHKLMSFEDVLLVFSAVVFGAMAVGQVSSFAPDYAKAKISAHIIMIIEKTPLIDS  
YSTEGLMPNTLEGNTFGEVVFNYPTRPDIPVLQGLSLEVKKGQTLALVGSSGCGKSTVV  
QLLERFYDPLAGKVLDDGKEIKRLNVQWLRHLGIVSQEPILFDCSIAENIAYGDN SRVV  
SQEEIVRAAKEANIHA FIESLPNKYSTKVGDKGTQLSGGQKQRIAIARALVRQPHILLLD  
EATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQL  
LAQKGIYFSMVS VQAGTKRQ

>sp|A6NDR6|ME3L1\_HUMAN Putative homeobox protein Meis3-like 1 OS=Homo sapiens GN=MEIS3P1  
PE=5 SV=2

MGPELGWGHPRGGDVCSSDSFNEDNTAFKQVRSERPFFSSNPELDNLMIQAIQVLRFHL  
LELEKGKMPIDLVIEDRDGGCREDFEDYPASCPSLPDQNNI WIRDHEDSGSVHLGTPGPS  
SGGLASQSGDNSSDQGVGLDTSVASPSSGGEDEDLDQEPRRNKKRGIFPKVATNIMRAWL  
FQHL SHPYPSEEKKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRTGQGAAFSPEG  
QPIGGYTETEPHVAFRAPASVGMSLNSEGEWHYL

>sp|Q16626|MEA1\_HUMAN Male-enhanced antigen 1 OS=Homo sapiens GN=MEA1 PE=1 SV=2

MGPERHLSGAPARMATVVLG GDTMGPERIFPNQTEELGHQGPSEGTDWSSEEPEEEQEE  
TGSGPAGYSYQPLNQDPEQEEVELAPVGDGDVADIQDRIQALGLHLPDPPESEDEDEE  
GATALNNHSSIPMDEPHVELVKRTMAGVSLPAPGVPAWAREISDAQWEDVVQKALQARQA  
SPAWK

>sp|Q9UHV7|MED13\_HUMAN Mediator of RNA polymerase II transcription subunit 13 OS=Homo  
sapiens GN=MED13 PE=1 SV=3

MSASFVPNGASLEDCHCNLFCLADLTGIKWKYVWQGPTSAPILFPVTEEDPILSSF SRC  
LKADVLGVWRRDQRPGRRELWIFWWGEDPSFADLIHHDLSEEDGVWENGLSYECRTLLF  
KAVHNLLERCLMNRNFVRIGKWFVKPYEKDEKPINKSEHLSCSFTFFLHGDSNVCTSVEI  
NQHPVYLLSEEHITLAQQSNSPFQVILCPFGLNGTLTGQAFKMSDSATKKLIGEWKQFY  
PISCCLKEMSEEKQEDMDWEDDSLAAVEVLVAGVRMIYPACFVLVPQSDIPTSPV GSTH  
CSSSCLGVHQVPASTRDPAMSSVTLPPTSPEEVQTVDPQSVQKWKFSSVSDGFNSDST  
SHHGKIPRKL ANHVDRVWQECNMNRAQNK RKYSASSGGLCEEATAAKVASWDFVEATQ  
RTNCSCLRHKNLKSRNAGQQGQAPSLGQQQQLPKHKTNEKQEKSEKPQKRPLTPFHHRV  
SVSDDVGMDADSASQRLVISAPDSQVRFSNIRTNDVAKTPQM HGTEMANSQP PPPLS PHP  
CDVVD EGVT KTPSTPQS QHFYQMPTDPLVPSKPMEDRIDSLSQSFP PQYQEA VEPTVYV  
GTAVNLEEDEANI AWKYYKFPKKKDVEFLPPQLPSDKFKDDPVGPF GQESVTSVTELMVQ  
CKKPLKVSDELVQQYQIKNQCLSAIASDAEQEPKIDPYAFVEGDEEFLFPDKKDRQNSER  
EAGKKHKVEDGTSSVTVLSHEEDAMSLFSPSIKQDAPRPTSHARPPSTSLIYDSDLAVSY  
TDLDNLFNSDEDELTPGSKKSANGSDDKASCKESKTGNLDPLSCI STADLHKMYTPPSL  
EQHIMGFSPMNMNNKEYGSM DTPGGTVLEGNSSSIGAQFKIEVDEGFCSPKPSEIKDFS  
YVYKPENCQILVGCSMFAPLKTLP SQYLPPIKLPEECIYRQSWTVGKLELLSSGSPMPFI

KEGDGSNMDQEYGTAYTPQTHTSFQMPPSSAPPSNSGAGILPSPSTPRFPTPRTPRTPT  
PRGAGGPASAQGSVKYENS DLYSPASTPSTCRPLNSVEPATVPSIPEAHSLYVNLILSES  
VMNLFKDCNFDSCCICVCNMNIKADVGVIIPDPTQEAQYRCTCGFSAMNRKFGNNSGL  
FLEDELDIIGRNTDCGKEAEKRFEALRATSAEHVNGGLKESEKLSDDLILLQDQCTNLF  
SPFGAADQDPFPKSGVISNWVRVEERDCCNDCYLALHGRQFMDNMSGGKVDEALVKSSC  
LHPWSKRNDVSMQCSQDILRMLLSLQPVLQDAIQKKRTVRPWGVQGPLTWQQFHKMAGRG  
SYGTDESPEPLPIPTFLLGYDYDYLVLSPFALPYWERLMEPYGSQRDIAYVVLCPENE  
LLNGAKSFFRDLTAIYESCRLGQHRPVSRLLTDGIMRVGSTASKKLEKLVAEWFSAAD  
GNNEAFSKLKLAYQVCYRDLGPYLASPLDSSLLSQPNLVAPTSQSLITPPQMTNTGNAN  
TPSATLASAASSTMTVTSGVAISTSVATANSTLTASTSSSSSSNLNSGVSSNKLPSPFP  
FGSMNSNAAGSMSTQANTVQSGQLGGQQTALQTAGISGESSLPTQPHPDVSESTMDRD  
KVGIPTDGDSHAVTYPPAIVVYIIDPFTYENTDESTNSSSVWTLGLLRCFLEMVQTLPPH  
IKSTVSQVIIPCQYLLQPVKHEDREIYPQHLKSLAFSAFTQCCRPLPTSTNVKTLTGFGP  
GLAMETALRSPDRPECIRLYAPPFILAPVKDKQTELGETFGEAGQKYNVLFVGYCLSHDQ  
RWILASCTDLYGELLETCIINIDVPNRARRKKSSARKFGLQKLWEWCLGLVQMSSLPWRV  
VIGRLGRIGHGELKDWSCLLSRRNLQSLSKRLKDMCRMCGISAADSPSILSACLVAMEPQ  
GSFVIMPDSVSTGSVFRSTTLNMQTSQLNTPQDTSCTHILVFPTSASVQVASATYTEN  
LDLAFNPNDGADGMGIFDLLDTGDDLPDIINILPASPTGSPVHSPGSHYPHGGDAGKG  
QSTDRLSTEPHEEVPNILQQPLALGYFVSTAKAGPLPDWFSACPQAQYQCPLFLKASL  
HLHVPSVQSDELLHSHKSHPLDSNQTSDVLRVFLEQYNALSWLTCDPATQDRRSCLPIHF  
VVLNQLYNFIMNML

>sp|Q96RN5|MEDI5\_HUMAN Mediator of RNA polymerase II transcription subunit 15 OS=Homo  
sapiens GN=MEDI5 PE=1 SV=2

MDVSGQETDWRSTAFRQKLVSQIEDAMRKAGVAHSKSSKDMESHVFLKAKTRDEYLSLVA  
RLIIHFRDIHNKKSQASVSDPMNALQSLTGGPAAGAAGIGMPRGPQSLGGMGSLGAMG  
QPMSLSGQPPPGTSGMAPHSMVAVSTATPQTQLQLQQVALQQQQQQQFQQQQQAALQQQ  
QQQQQQQFQAQQSAMQQQFQAVVQQQQQLQQQQQQQHLLIKLHHQNQQQIQQQQQQLQR  
IAQLQLQQQQQQQQQQQQQQALQAQPIQQPPMQQPQPPSQALPQQLQQMHHTQHHQ  
PPPQPQQPPVAQNQPSQLPPQSQTQPLVSQAQALPGQMLYTQPPLKFVRAPMVVQPPVQ  
PQVQQQTAVQTAQAAQMVAPGVQMITEALAQQGMHIRARFPPTTAVSAIPSSSIPLGRQ  
PMAQVSQSSLPMLSSPSPGQVQTPQSMPPPPQSPQPGQPSQPNNSVSSGPAPSPSSF  
LPSPSPQSPSPVTARTPQNFVSPSPGLNTPVNPSSVMSPAGSSQAEEQQYLDKQLS  
KYIEPLRRMINKIDKNEDRKKDLSKMKSLDILTDPSKRCPLKTLQKCEIALEKLKNDMA  
VTPPPPPVPPTKQQYLCQPLDAVLANIRSPVFNHSLYRTFVPAMTAIHGPPITAPVVC  
TRKRREDDERQSIPSVLQGEVARLDPKFLVNLDPHSCSNGTVHLICKLDDKDLPSVPP  
LELSVPADYPAQSPLWIDRQWQYDANPFLQSVHRCMTSRLQLPKHSVTALLNTWAQSV  
HQACLSAA

>sp|Q9Y2X0|MEDI6\_HUMAN Mediator of RNA polymerase II transcription subunit 16 OS=Homo  
sapiens GN=MEDI6 PE=1 SV=2

MCDLRRPAAGGMDLAYVCEWEKWSKSTHCPSVPLACAWSCRNLIAFTMDLRSDQDLTR  
MIHILDEHPWDLHSIPSEHHEAITCLEWDQSGSRLLSADADGQIKCWSMADHLANSWES  
SVGSLVEGDPIVALSWLHNGVKLALHVEKSGASSFGEKFSRVKFSPSLTLFGGKPMEGWI  
AVTVSGLVTVSLLKPSGQVLTSTESLCRLRGRVALADIAFTGGGNIVVATADGSSASPVQ  
FYKVCVSVVSEKCRIDTEILPSLFMRCTTDLNRKDKFPAITHLKLFLARDMSEQVLLCASS

QTSSIVECWSLRKEGLPVNNIFQQISPVVGDKQPTILKWRLSATNDLDRVSAVALPKLP  
ISLTNTDLKVASDTQFYPLGLALAFHDGSHVHRLSLQTMVIFYSSAAPRPVDEPAMK  
RPRTAGPAVHLKAMQLSWTSLALVIGIDSHGKLSVLRLSPSMGHPLEVGLALRHLLFLEY  
CMVTGYDWWIDILLHVQPSMVQSLVEKLHEEYTRQTAALQQVLSTRILAMKASLCKLSPCT  
VTRVCDYHTKLFLIAISSTLKSLLRPHFLNTPDKSPGDRLTEICTKITDVIDKVMINLK  
TEEFVLDMNTLQALQQLLQWVGDFVLYLLASLPNQGSLLRPGHSFLRDGTSGLMRELNV  
VIRIWGLLKPSCLPVYTATSDTQDSMSLLFRLTLKLWICCRDEGPASEPDEALVDECCLL  
PSQLLIPSLDWLPASDGLVSRLQPKPLRLQFGRAPTLPGSAATLQLDGLARAPGQPKID  
HLRRLHLGACPTEECKACTRCGCVTMLKSPNRTTAVKQWEQRWIKNCLAVEGRPDACVT  
SRASEEAPAFVQLGPPQSTHHSRPTPRSLDHLHPEDRP

>sp|Q9NX70|MED29\_HUMAN Mediator of RNA polymerase II transcription subunit 29 OS=Homo sapiens GN=MED29 PE=1 SV=1

MAASQQQASAASSAAGVSGPSSAGGPGPQQQPQPPAQLVGPAQSGLLQQQQQDFDPVQRY  
KMLIPQLKESLQTLMKVAAQNLIQNTNIDNGQKSSDGPIQRFDKCLEEFYALCDQLELCL  
RLAHECLSQSCDSAKHSPTLVPTATKPDVQPSLPYPQYLAVIKAQISCAKDIHTALLD  
CANKVTGKTPAPPAGPGGTL

>sp|Q9Y3C7|MED31\_HUMAN Mediator of RNA polymerase II transcription subunit 31 OS=Homo sapiens GN=MED31 PE=1 SV=1

MAAAVAMETDDAGNRLRFQLELEFVQCLANPNYLNFLAQRGYFKDKAFVNYLYLLYWKD  
PEYAKYLKYPQCLHMLELLQYEHFRKELVNAQCAKFIDEQQILHWQHYSRKRMRLLQQA  
EQQQQNNTSGK

>sp|Q9NPJ6|MED4\_HUMAN Mediator of RNA polymerase II transcription subunit 4 OS=Homo sapiens GN=MED4 PE=1 SV=1

MAASSSGEKEKERLGGGLGVAGGNSTRERLLSALEDLEVLRSRELIEMLAISRNLQKLQAG  
EENQVLELLIHRDGEFQELMKLALNQGKIHHMQVLEKEVEKRDSDIQQQLQKQKEAEQI  
LATAVYQAKEKLKSIEKARKGAISSEI IKYAHRISASNAVCAPLTWVPGDPRRPYPTDL  
EMRSGLLGQMNNPSTNGVNGHLPGDALAAGRLPDVLAPQYPWQSNMMSMNLPPNHSSDF  
LLEPPGHKNKEDDVEIMSTDSSSSSES

>sp|Q6UWQ5|LYZL1\_HUMAN Lysozyme-like protein 1 OS=Homo sapiens GN=LYZL1 PE=2 SV=2

MKAAGILTLIGCLVTGAESKIYTRCKLAKIFSRAGLDNYWGFSLGNWICMAYYESGYNTT  
AQTVLDDGSDIDYGFQINSFAWCRRGKLKENNHCHVACSALITDDLTDALICARKIVKET  
QGMNYWQGWKKHCEGRDLSEWKKGCEVS

>sp|Q02978|M2OM\_HUMAN Mitochondrial 2-oxoglutarate/malate carrier protein OS=Homo sapiens GN=SLC25A11 PE=1 SV=3

MAATASAGAGGIDGKPRTPSKSVKFLFGGLAGMGATVFVQPLDLVKNRMQLSGEGAKTRE  
YKTSFHALTSILKAEGLRGIYTGSLAGLLRQATYTTTRLGIYTVLFLERLTGADGTPPGFL  
LKAVIGMTAGATGAFVGTAEVALIRMTADGRLPADQRRGYKNVFNALIRITREEGVTL  
WRGCIPTMARAVVVNAAQLASYSQSKQFLDLSGYFSDNILCHFCASMISGLVTTAASMPV  
DIAKTRIQNMIRMIDGKPEYKNGLDVLFKVVRVEGFFSLWKGFPPYARLGPHTVLTFLFL  
EQMNKAYKRLFLSG

>sp|P41279|M3K8\_HUMAN Mitogen-activated protein kinase kinase kinase 8 OS=Homo sapiens GN=MAP3K8 PE=1 SV=2

MEYMSTGSDNKKEIDLLIKHLNVSDVIDIMENLYASEEPAVYEPSLMTMCQDSNQNDERS  
KSLLLSGQEVFWLSSVRYGTVEDLLAFANHISNTAKHFYGGQRPQESGILLNMVITPQNGR

YQIDSDVLLIPWKLTYRNIGSDFIPRGAFGKVYLAQDIKTKRMACKLIPVDQFKPSDVE  
IQACFRHENIAELYGAVLWGETVHLFMEAGEGGSVLEKLESCGPMREFEIIWVTKHVLKG  
LDFLHSHKKVIHHDIKPSNIVFMSTKAVLVDFGLSVQMTEDVYFPKDLRGTEIYMSPEVIL  
CRGHSTKADIYSLGATLIHMGTGTPPWVKRYPRSAYPYLYIIHKQAPPLIEDIADDCSPG  
MRELIEASLERNPNHRPRAADLLKHEALNPPREDQPRCQSLDSALLERKRLLSRKELELP  
ENIADSSCTGSTEESEMLKRQRSLYIDL GALAGYFNLVRGPPTLEYG

>sp|P80192|M3K9\_HUMAN Mitogen-activated protein kinase kinase kinase 9 OS=Homo sapiens  
GN=MAP3K9 PE=1 SV=3

MEPSRALLGCLASAAAAAPPGEDGAGAGAEAAAAAAAAAAVGPGLGCDAPLPYWTAV  
FEYEAAGEDELTLRLGDVVEVLSKDSQVSGDEGWWTGQLNQRVGIFPSNYVTPRSASFSSR  
CQPGGEDPSCYPPIQLLEIDFAELTLEEIIIGGGFGKVYRAFWIGDEVAVKAARHDPDED  
ISQTIENVRQEAKLFAMLKHPNIIALRGVCLKEPNLCLVMEFARGGPLNRVLSGKRIPPD  
ILVNWAVQIARGMNYLHDEAIVPIIHRDLKSSNILILQKVENGDLNKKILKITDFGLARE  
WHRTTKMSAAGTYAWMAPEVIRASMFSGSDVWSYGVLLWELLTGEVPFRGIDGLAVAYG  
VAMNKLALPISTCEPEFAKLMEDCWNPDPHSRPSFTNILDQLTTIEESGFFEMPKDSFH  
CLQDNWKHEIQEMFDQLRAKEKELRTWEEELTRAALQQKNQEELLRRREQELAEREIDIL  
ERELNIIHQLCQEKPRVKRKGFRKSRLKLKDGNRISLPSDFQHKFTVQASPTMDKRK  
SLINSRSSPPASPTIIPRLRAIQLTPGESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWG  
PGTLGQKELASGDEGSPQRREKANGSLTPSESPHFHLGLKSLVDGYKQWSSSAPNLVKGP  
RSSPALPGFTSLMEMEDEDSEPGSGESRLQHSPSQSYLCIPFPRGEDGDGPSSDGIHEE  
PTPVNSATSTPQLTPTNSLKRGGAHRRCEVALLGCGAVLAATGLGFDLLEAGKCQLLPL  
EEPEPPAREEKKRREGLFQRSSRPRRSTSPPSRKLFKKEEPMLLLGDPSASLTLLSLSSI  
SECNSTRSLLRSDSDEIVVYEMPVSPVEAPPLSPCTHNPLVNVVRVERFKRDPNQSLTPTH  
VTLTTPSQSSHRTPSDGALKPETLLASRSPSSNGLSPSPGAGMLKTPSPSRDPGEFPR  
LPDPNVVFPPTPRRWNTQQDSTLERPKTLEFLPRPRPSANRQLDPWWFVSPSHARSTSP  
ANSSSTETPSNLDSCFASSSTVEERPGLPALLPFQAGPLPPTERTLLDLDAEGQSQDST  
VPLCRAELNTHRPAPYEIQQEFWS

>sp|Q96PG2|M4A10\_HUMAN Membrane-spanning 4-domains subfamily A member 10 OS=Homo sapiens  
GN=MS4A10 PE=2 SV=3

MKAEATVIPSRCARGLPSWQVLSVPWQTSAPQNTTQPKLLAPHQHEKSQKKSSLLKEL  
GAFHITIALHLVFGGYLASIVKNLHLVLKSWYPFWGAASFLISGILAITMKTFSTYTL  
KMLCLMTNLISLFCVLSGLFVISKDLFLESPFESPIWRMYPNSTVHIQRLELALLCFTVL  
ELFLPVPTAVTAWRGDCPSAKNDACLVPNTPLHLKGLPVEPPPSYQSVIQGDAQHKQH  
RLREVQVAPDTWIVTDGAAIWTQTAN

>sp|P33908|MA1A1\_HUMAN Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA OS=Homo sapiens  
GN=MAN1A1 PE=1 SV=3

MPVGGLLP LFSSPAGGV LGGLGGGGGRKSGPAALRLTEKFVLLL VFSAFITLCFGAIF  
FLPDSSKLLSGVLFHSSPALQPAADHKPGPGARAEDAAEGRARRREGAPGDPEAALEDN  
LARIRENHERALREAKETLQKLPEEIQRDILLEKKKVAQDQLRDKAPFRGLPPVDFVPPI  
GVESREPADAAREKRAKIKEMMKHAWN NYKYAWGLNELKPI SKGGHSSSLFGNIKAT  
IVDALDTL FIMEMKHEFEEAKSWVEENLDFNVNAEISVFEVNI RFGVGLLSAYYLSGEEI  
FRKKAVELGVKLLPAFHTPSGIPWALLNMKSGIGRNWPWASGGSSILA EFGTLHLEFMHL  
SHLSGNPIFAEKVMNIRTVLNKLEKPQGLYPNYLNPSSGQWGQHHVSVGGLGDSFYEYLL  
KAWMSDKTDLEAKMYF DAVQAIETHLIRKSSSGLTYIAEWKGGLLEHKMGHLTCFAGG

MFALGADAAPEGMAQHYLELGAEIARTCHESYNRTFMKLGPEAFRFDGGVEAIATRQNEK  
YYILRPEVMETMYMWRLTHDPKYRKWAVEAVEALENHCRVNGGYSGLRDVYLLHESYDD  
VQQSFFLAETLKYLYLIFSDDLLPLEHWIFNSEAHLPLPKDKKEVEIREE

>sp|Q05195|MAD1\_HUMAN Max dimerization protein 1 OS=Homo sapiens GN=MXD1 PE=1 SV=1  
MAAAVRMNIQMLLEAADYLERREREAEHGYASMLPYNNKDRDALKRRNKSCKNNSSSRST  
HNEMEKNRRAHLRLCLEKLKGLVPLGPSSRHTTSLLTAKLHIKKLEDCDRKAVHQID  
QLQREQRHLKRQLEKLGIERIRMSIGSTVSSERSDSDREEIDVDVESTDYLTGDLDWSS  
SSVSDSDERGSMQSLGSDEGYSTSIKRIKLQDSHKACLGL

>sp|Q8NHW3|MAFA\_HUMAN Transcription factor MafA OS=Homo sapiens GN=MAFA PE=1 SV=2  
MAAELAMGAELPSSPLAIEYVNDFDLMKFEVKKEPPEAERFCHRLPPGSLSSSTPLSTPCS  
SVPSSPSFCAPSPGTGGGGGAGGGGSSQAGGAPGPPSGGPGAVGGTSGKPALEDLYWMS  
GYQHHLNPEALNLTPEDAVEALIGSGHHGAHHGAHHPAAAAAYEAFRGPGFAGGGGADDM  
GAGHHHGAHHAHHHHAAHHHHHHHHHHGGAGHGGGAGHHVRLEERFSDQLVSMVREL  
NRQLRGFSKEEVIRLKQKRRTLKNRGYAQSCRFKRVQQRHILESEKCLQSQVEQLKLEV  
GRLAKERDLYKEYEKLARGGGPGSAGGAGFPREPSPPQAGPGGAKGTADFFL

>sp|Q8WZ33|MAFIP\_HUMAN MaFF-interacting protein OS=Homo sapiens GN=MAFIP PE=1 SV=1  
MLCPRAAFLVGSFHGVFPGPASSHWEFWPSTPVGAYFCPPQPLTPNTPKLVSEVEE  
LYKSITALREKLLQAEQSLRNLDIHMSLEKDVMTNSVFIDRQKCMHRTCYPTILQL  
AGYQ

>sp|A8MXT2|MAGBH\_HUMAN Melanoma-associated antigen B17 OS=Homo sapiens GN=MAGEB17 PE=3  
SV=3  
MPRGQASKRRAREKRRQARGEDQCLGGAQATAAEKEKLPSSSSPACQSPPQSFPNAGIPQ  
ESQRASYPSSPASAVSLTSSDEGAKGQKGESPNSFHGPSSSESTGRDLLNTKTGELVQFL  
LNKYIRKEPITREAMLKVINRKYKQHFPEILRRSTENVEVVFGLYLKEMDPSRQSYVLVG  
KLDFPNQGLSDGGGFPLSGLLMVLLSTIFMHGNRATEEEMWECLNALGMYKGRKHFYIG  
EPQELVTKDLVREGYLEYQQVPSSDPTRYEFWGPRAAETSKMKVLEFVAKLNDTVAST  
YKSRYEEALREEEEQARARAVARDSARARASRSFQP

>sp|Q9H6Y5|MAGIX\_HUMAN PDZ domain-containing protein MAGIX OS=Homo sapiens GN=MAGIX PE=1  
SV=3  
MEPRTGGAANPKSGRSGPSPLAGPSARQLLARLDARPLAARAAVDVAALVRRAGATLR  
LRRKEAVSVLDSADIEVTSRLPHATIVDHRPQHRWLETCPNAPQLIQKAHSAPKPSQA  
SGHFSVELVRGYAGFGLTLGGGRDVAGDTPLAVRGLLKDGPAQRCGRLEVGDVVLHINGE  
STQGLTHAQAVIRAGGPQLHLVIRPLETHPGKPRGVGEPRKGVVPSWPDRSPDPGGP  
EVTGSRSSSTSLVQHPPSRTTLKKTGRSPEPSPEAAADGPTVSPERRAEDPNDQIPGSP  
GPWLPSEERLSRALGVRGAAQFAQEMAAGRRRH

>sp|P20916|MAG\_HUMAN Myelin-associated glycoprotein OS=Homo sapiens GN=MAG PE=1 SV=1  
MIFLTALPLFWIMISASRGHWGAWMPSSISAFEGTCVSI PCRFDFPDEL RPAVHGVWY  
FNSPYPKNYPVVFKSRTQVVHESFQGRSRLGDLGLRNCTLLLSNVSPELGGKYFRGD  
LGGYNQYTFSEHSVLDIVNTPNIVPPEVAGTEVEVSCMPDNCPELRPELSWL GHEGL  
GEPAVLGRLREDEGTWVQVSLHFPVTREANGHRLGCQASFPNTTLQFEGYASMDVKYPP  
VIVEMNSSVEAIEGSHVSLCGADSNPPPLLTWMRDGTVLREAVAESLLELEEVTPAED  
GVYACLAENAYGQDNRTVGLSVMYAPWKPTVNGTMVAVEGETVSILCSTQSNPDPILTIF  
KEKQILSTVIYSESLQLELPAVSPEDDGEYWCVAENQYGQRATAFNLSVEFAPVLLLESH  
CAAARDTVQCLCVKSNPEPSVAFELPSRNVTVNESEREFVYSERSGLVLTSLTLRGQA

QAPPRVICTARNLYGAKSLELPFQGAHRLMWAKIGPVGAVVAFAILIAIVCYITQTRRKK  
NVTESPSFSAGDNPPVLFSSDFRISGAPEKYESERRLGSERRLLGLRGEPELDLSYSHS  
DLGKRPTKDSYTLTEELA EYAEIRVK

>sp|O15232|MATN3\_HUMAN Matrilin-3 OS=Homo sapiens GN=MATN3 PE=1 SV=2  
MPRPAPARRLPGLLLLLWPLLLLPSAAPDPVARPGFRRLETRGPGGSPGRRPSPAAPDGA  
PASGTSEPGRARGAGVCKSRPLDLVFIIDSSRSVRPLEFTKVKTFSRIIDTLDIGPADT  
RVAVVNYASTVKIEFQLQAYTDKQSLKQAVGRITPLSTGTMSGLAIQTAMDEAFTVEAGA  
REPSSNIPKVAIIIVTGRPDQVNEVAARAQASGIELYAVGVDRADMASLKMMASEPLEE  
HVFYVETYGVIEKLSSRFQETFCALDPCVLGTHQCQHVCISDGEGKHHCECSQGYTLNAD  
KKTCSALDRCALNTHGCEHICVNDRSGSYHCECYEGYTLNEDRKTCQAQDKCALGTHGCQ  
HICVNDRGTGSHHCECYEGYTLNADKKTCSVRDKCALGSHGCQHICVSDGAASYHCDCYPG  
YTLNEDKKTCSATEEARRLVSTEDACGCEATLAFQDKVSSYLQRLNTKLDDILEKLKINE  
YGQIHR

>sp|P43243|MATR3\_HUMAN Matrin-3 OS=Homo sapiens GN=MATR3 PE=1 SV=2  
MSKSFQQSSLSRDSQGHGRDLAAGIGLLAAATQSLSMPASLGRMNQGTARLASLMNLGM  
SSSLNQQGAHSALSSASTSSHNLQSIFNIGSRGPLPLSSQHRGDADQASNILASFGLSAR  
DLDELSRYPEDKITPENLPQILLQLKRRRTEEGPTLSYGRDGRSATREPPYRVPRDDWEE  
KRHFRRDSFDDRGPSLNPVLDYDHGSRSEQESGYDRMDYEDDRLRDGERCRDSSFFGETS  
HNYHKFDSEYERMGRGPGPLQERSLFEKKRGAPPSSNIEDFHGLLPKGYPHLCSICDLPV  
HSNKEWSQHINGASHSRRCQLLEIYPEWNPNDTGHTMGDPFMLQQSTNPAPGILGPPP  
PSFHLGGPAVGPRGNLGAAGNLQGPRHMQGRVETSRVVHIMDFQRGKNLRYQLLQLVE  
PFGVISNHLILNKINEAFIEMATTEDAQAADVYTTTPALVFGKPVVRVHLSQKYKRIKKP  
EGKPDQKFDQKQELGRV IHLNLP HSGYSDSAVLKLAEPYGIKINYILMRMKSQAFIEME  
TREDAMAMVDHCLKKALWFQGRVCVVDLSEKYKKLVLRIPNRGIDLLKKDKSRKRSYSPD  
GKESPSDKKSKTDGSKTESSTEGKEQEEKSGEDGEKDTKDDQTEQEPNMLLESEDELLV  
DEEEAAALLES GSSVGD ETDLANLGDVASDGKKEPSDKAVKKDGSASAAAKKKLKKVDKI  
EELDQENEAALENG I KNEENTE PGAESSENADDPNKDTS ENADGQSDENKDDYTIPDEYR  
IGPYQPNVPVGIDYVIPKTGFYCKLCSLFYTNEEVAKNTHCSSLPHYQLKKFLNKLAE  
RRQKKET

>sp|Q96EY5|MB12A\_HUMAN Multivesicular body subunit 12A OS=Homo sapiens GN=MVB12A PE=1  
SV=1  
MDPVPGTDSAPLAGLAWSSASAPPPRGFSAISCTVEGAPASFGKSFAQKSGYFLCLSSLG  
SLENPQENVVADIQIVVDKSPPLGFSVPVCDPMSKASVSKKKRMCVKLLPLGATDTAVF  
DVRLSGKTKTVPGYLRI GDMGGFAIWCKKAKAPRPV PKPRGLSRDMQGLSLDAASQPSKG  
GLLERTASRLGSRAS TLRRNDSIYEASSLYGISAMDGV PFTLHPRFEGKSCSPLAFSAFG  
DLTIKSLADIEEEYNYGFVVEKTAAARLPPSVS

>sp|Q9Y586|MB212\_HUMAN Protein mab-21-like 2 OS=Homo sapiens GN=MAB21L2 PE=1 SV=1  
MIAAQAKLVYQLNKYYTERCQARKAAIAKTIREVCKVVS DVLKEVEVQEPRFISSLSEID  
ARYEGLEVISPTEFEVVL YLNQMGVFN FVDDGSLPGCAVLKLS DGRKRSM SLWVEFITAS  
GYLSARKIRSRFQTLVAQAVDKCSYRDVVKMIADTSEVKLRIRERYVVQITPAFKCTGIW  
PRSAAQWPM PHIPWPGPNRVAE VKAEGFNLLSKECYS LTGKQSSAESDAWVLQFGAEENR  
LLMGGCRNKCLSVLKT LRDRHLELPGQPLNNYHMKTL LLYECEKHPRETDWDESLGDRL  
NGILLQLISCLQCRRCPHYFLPNLDLFQGKPHSALESAAKQTWRLAREILTNPKSLDKL

>sp|A6NE82|MB3L3\_HUMAN Putative methyl-CpG-binding domain protein 3-like 3 OS=Homo sapiens GN=MBD3L3 PE=5 SV=1

MGEPAFTSFPPSPVGLKLRNMMPWALQKKREIHMAKAHRRRAARSALPMRLTSCIFRRP  
VTRIRSHPDNQVRRRKGEHLEKPPQLCAYRRLQALQPCSSQGEQSSPLHLESVLSILAP  
GTAGESLDRAGAERVRSPLEPTPGRFPAVAGGPTPGMGCQLPPPLSGQLVTPADIRRQAR  
RVKKARERLAKALQADRLARQAEMLTCT

>sp|Q9P267|MBD5\_HUMAN Methyl-CpG-binding domain protein 5 OS=Homo sapiens GN=MBD5 PE=1 SV=3

MNGGKECDGGDKEGGLPAIQVPVGWQRRVDQNGVLYVSPSGSLLSCLEQVKTYLLTDGTC  
KCGLECPLILPKVFNFDPGAAVKQRTAEDVKADEDVTKLCIHKKRIIAVATLHKSMEAPH  
PSLVLTSPGGGTNATPVVPSRAATPRSVRNKSHEGITNSVMPECKNPFKLMIGSSNAMGR  
LYVQELPGSQQQLHPVYPRQLGSSEHGQKSPFRGSHGGLPSPASSGSQIYGDGSI  
TDPLGSPDVFTSRNPGFHGAPNSSPIHLNRTPLSPPSVMLHGSPVQSSCAMAGRTNIPLS  
PTLTTSKSPVMKKPMCINFSTNMEIPRAMFHHKPPQGPPPPPPSCALQKKPLTSEKDPLGI  
LDPIPSKPVNQNPVIINPTSFHSNVHSQVPMNMVSMPPAVVPLPSNLPLPTVKPGHMNHG  
SHVQRVQHSASTSLSPSPVTSVHMMGTGIGRIEASPQRSRSSSTSSDHGNFMMPPVGPQ  
ATSSGIKVPSPRSTIGSPRSPSPSTKSDGHHQYKDIPNPLIAGISNVLNTPSAA  
FPTASAGSSSVKSQPGLLGMPLNQILNQHNAAFPASSLLSAAAKAQLANQNKLANNSS  
SSNSGAVAGSGNTEGHSTLNTMFPPTANMLLPTGEGQSGRAALRDKLMSQQKDALKRKR  
QPPTTVLSLLRQSQMDSSAVPKPGPDLLRKQGQGSFPISSMSQLLQSMCQSSHLSSNST  
PGCGASNTALPCSANQLHFTDPSMNSSVLQNIPLRGEAVHCHNANTNFVHSNSPVPNHHL  
AGLINQIQASGNCGMLSQSGMALGNSLHPNPPQSRISTSTPVIPIVSSYNQTSSEAG  
GSGPSSSIAIAGTNHPAITKTSVLQDGVIVTTAAGNPLQSQLPIGSDFFVVGQEHALHF  
PSNSTSNHPLPHPLNPSLLSLPISLPVNQQHLLNQNLNLLQPSAGEGDMSSINNTLSN  
HQLTHLQSLNNNQMFPPNQQLQGYQNLQAFQGGSTIPCPANNPMACLFQNFQVR  
MQEDAALLNKRISTQPLTALPENNTTLPFQDTPCELQPRIDPSLGGQVKDGLVGGP  
GDASVDAIYKAVDAASKGMQVVITAVNSTTQISPIPALSAMSAFTASIGDPLNLSSAV  
SAVIHGRNMGGVDHGRLRNSRGARLPKNLDHGKNVNEGDFEYFKSASCHTSKKQWDGE  
QSPRGERNRWKYEFLDHPGHIHSSPCHERPNNVSTLPFLPGEQHPILLPPRNCPGDKIL  
EENFRYNNYKRTMMSFKERLENTVERCAHINGNRPRQSRGFGELLSTAKQDLVLEEQSPS  
SSNSLENSLVKDYIHYNGDFNAKSVNGCVPSPSDAKSISSEDDLNPDPSPSSNELIHYRP  
RTFNVGDLVWGQIKGLTSWPGKLVREDDVHNSCQSQSPEEGKVEPEKLKLTLEGLEAYSRV  
RKRNRKSGKLNHLEAAIHEAMSELDKMSGTVHQIPQGDQMRPPKPKRRKISR

>sp|Q9NS73|MBIP1\_HUMAN MAP3K12-binding inhibitory protein 1 OS=Homo sapiens GN=MBIP1 PE=1 SV=2

MAAATELNRPSSGDRNLERRCRPNLSREVLYEIFRSLHTLVGQLDLRDDVVKITIDWNKL  
QSLSAFQPALFSALEQHILYLQFLAKLQSPIKEENTTAVEEIGRTEMGNKNEVNDKFS  
IGDLQEEEEKHESDLRDVKKTIHFDPEVVQIKAGKAEIDRRISAFIERKQAEINENNVR  
EFCNVIDCNQENSCARTDAIFTYPYGFKSHVKVSRVNTYGPQTRPEGIPGSGHKPNSML  
RDCGNQAVEERLQNI EAHLRLQTGGPVPRDIYQRIKKLEDKILELEGISPEYFQSVSFG  
KRRKVQPPQNNYSLAELDEKISALKQALLRKSREAESMATHHLP

>sp|P11226|MBL2\_HUMAN Mannose-binding protein C OS=Homo sapiens GN=MBL2 PE=1 SV=2

MSLFPSLPLLLLSMVAASYSETVTCEDAQKTCPAVIACSSPGINGFPKGDGRDGTGKEKG  
EPGQGLRGLQGPPGKLGPPGNPGPSGPGPKGQKGDGKSPDGDSSLAASERKALQTEMA

RIKKWLTFSLGKQVGKFFLTNGEIMTFEKKVLCVKFQASVATPRNAAENGAIQNLKE  
EAFLGITDEKTEGQFVDLTGNRLTYTNWNEGEPNAGSDEDCVLLLKNGQWNDVPCSTSH  
LAVCEFP

>sp|Q68D91|MBLC2\_HUMAN Metallo-beta-lactamase domain-containing protein 2 OS=Homo sapiens  
GN=MBLAC2 PE=1 SV=3

MSALEWYAHKSLGDGIFWIQERFYESGNRANIWLVRGSEQDVVIDTGLGLRSLPEYLYSS  
GLLQDREAKEDAARRPLLAVATHVHFDHSGGLYQFDRVAVHHAAEALARGDNFETVTWL  
SDSEVVRTSPGWRARQFRVQAVQPTLILQDGDVINLGDRQLTMHMPGHSRGSICLHDK  
DRKILFSGDVVYDGLIDWLPSYRISDYVGTCEERLIELVDRGLVEKVLPGHFNTFGAERL  
FRLASNYISKAGICHKVSTFAMRSLASLALRVNTSRTSP

>sp|Q5VZF2|MBNL2\_HUMAN Muscleblind-like protein 2 OS=Homo sapiens GN=MBNL2 PE=1 SV=2

MALNVAPVRDTKWLTVLCRQFQRGTCRSRDEECKFAHPPKSCQVENGRVIACFDSLKGR  
CSRENCKYLHPPTHKTQLEINGRNLIQQKTAAMLAAQMQFMFPGTPLHPVPTFPVGP  
AIGTNTAISFAPYLAPVTPGVGLVPTEILPTTPVIVPGSPPTVPGSTATQKLLRTDKLE  
VCREFQRGNCARGETDCRFADPADSTMTDSDNTVTVCMDYIKGRCMRECKYFHPPAHL  
QAKIKAAQHQAQAAVAAQAAAAAATVMAFPFGALHPLPKRQALEKSNGTSAVFNPSVLH  
YQQALTSACLQQAHAFFIPTGSVLCMTPTSIDNSEIISRNGMECQESALRITKHCYCTYY  
PVSSSIELPQTAC

>sp|Q96T53|MBOA4\_HUMAN Ghrelin O-acyltransferase OS=Homo sapiens GN=MBOAT4 PE=1 SV=2

MEWLWLFFLHPISFYQGAAPFALLFNLYLCIMDSFSTRARYLFLLTGGGALAVAAMGSYA  
VLVFTPAVCAVALLCSLAPQQVHRWTFQMSWQTLCHLGLHYTEYLLHEPPSVRFCITL  
SSLMLLTQRVTSLSLDICEGKVKAAASGGFRSRSSLSEHVCKALPYFSYLLFFPALLGGSL  
CSFQRFQARVQGSSALPHRSFWALSWRGLQILGLECLNVAVS RVVDAGAGLTDCQQFEC  
IYVWTTAGLFKLTYYSHWILDDSLHAAGFPELGQSPGEEGYVPDADIWTLERTHRIS  
VFSRKNQSTARWLRLVQHSRAWPLLTFAFSAWWHGLHPGQVFGFVCWAVMVEADYL  
IHSFANEFIRSWPMRLFYRTLTAHTQLIIAYIMLAVEVRSLSLWLLCNSYNSVFPVMY  
CILLLLAKRKHKN

>sp|O60942|MCE1\_HUMAN mRNA-capping enzyme OS=Homo sapiens GN=RNGTT PE=1 SV=1

MAHNKIPRWLNCPRRQGPVAGRFLPLKTMGLPRYDSQVAEENRFHPSMLSNYLKSCLKV  
MGLLDLTNTSRFYDRNDIEKEGIKYLQCKGHGECPTTENTETFIRLCERFNERNPPE  
LIGVHCTHGFNRTGLICAFLEKMDWSIEAAVATFAQARPPGIYKGDYKELFRRYGDI  
EEAPPPPLLPDWCDEFDEDEDEDEDEGKKESEPGSSASFGKRRKERLKLGAIFLEGTVKG  
VTQVTTQPKLGEVQQKCHQFCGWEGSGFPGAQPVSMQKQNIKLLDLKPYKVSWKADGTRY  
MMLIDGTNEVFMIDRDNVSFVHVSLEFPFRKDLRMHLSNTLLDGEMIIDRVNGQAVPRYL  
IYDIKFNQSPVGDGCFNVLQCIEREIISPRHEKMTGLIDKTQEPFSVRNKPFFDICT  
SRKLLEGNAKEVSHEMDGLIFQPTGKYKPGRCDDILKWKPPSLNSVDFRLKITRMGGEG  
LLPQNVGLLYVGGYERPFQAIKVTKEKQYDNKIIIECKFENNSWVFMQRRTDKSFPNAYN  
TAMAVCNSISNPVTKEMLEFIDRCTAASQGGQKRKHHLDPDELMPPPPPKRPRPLT

>sp|P33991|MCM4\_HUMAN DNA replication licensing factor MCM4 OS=Homo sapiens GN=MCM4 PE=1  
SV=5

MSSPASTPSRRGSRGRATPAQTPRESDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQ  
SPAAQDVLFSPPQMHSIAIPLDFDVSSPLTYGTPSSRVEGTPRSGVRGTPVRQRPDLGS  
AQKGLQVDLQSDGAAEDIVASEQSLGQKLVIWGTDVNVAACKENFQRFQRFIDPLAKE  
EENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQLISYPQEVIPTFDMA



VNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQ  
EAFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTHSMALIHNRSLFSDKQMIKLQESPED  
MPAGQTPHTVILFAHNDLVDKVQPGDRVNVGTIYRAVPIRVNPRVSNVSVYKTHIDVIH  
YRKTDAKRLHGLDEEAEQKLFSEKRVLLKELSRKPDYERLASALAPSIYEHEDIKKGI  
LLQLFGGTRKDFSHTGRGKFRAEINILLCGDPGTSKSQLQYVYNLVPRGQYTSKGKSSA  
VGLTAYVMKDPETRQLVLQTGALVLSDNIGCCIDFDMNESTRSVLHEVMEQQTLSIAK  
AGIICQLNARTSVLAAANPIESQWNPCKTTIENIQLPHTLLSRFDLIFLLDPQDEAYDR  
RLAHLVALYYQSEEQAEELDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMRKI  
GSSRGMVSAYPRQLESLIRLAEAHAKVRLSNKVEAIDVEEAKRLHREALKQSATDPRTGI  
VDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLFEDIRGQSDIAITKDMF  
EEALRALADDDFLVTGKTVRLL

>sp|Q9Y6D9|MD1L1\_HUMAN Mitotic spindle assembly checkpoint protein MAD1 OS=Homo sapiens  
GN=MAD1L1 PE=1 SV=2

MEDLGENTMVLSTLRSLNFIQSRVEGGSGLDISTSAPGSLQMYYQSMQLEERAEQIRS  
KSHLIQVEREKMQMELSHKRARVELERAASTSARNYEREVDNRQELLTRIRQLQEREAGA  
EEKMQEQLERNRQCQNLDAASKRLREKEDSLAQAGETINALKGRISELQWSVMDQEMRV  
KRLESEKQELQEQLDLQHKKCQEANQKIQELQASQEARADHEQQIKDLEQKLSLQEQDAA  
IVKNMKSELVRLPRLERELKQLREESAHLREMETNGLLQEELEGLQRKLGRQEKMQETL  
VGLELENERLLAKLSWERLDQTMGLSIRTPEDLSRFVVELQQRELALKDKNSAVTSSAR  
GLEKARQQLQEELRQVSGQLLEERKKRETHEALARRLQKRVLLLTKERDGMRAILGSYDS  
ELTPAEYSPQLTRRMREAEDMVQKVHSHAEMEAQLSQALEELGGQKQRADMLEMELKML  
KSQSSSAEQSFLFSREEADTLRLKVEELEGEERSRLEEEKRMLEAQLERRALQGDYDQSRT  
KVLHMSLNPTSVARQLREDHSQLQAECELRGLLRAMERGGTVPADLEAAAASLPSSKE  
VAELKKQVESAEELKNQRLKEVFQTKIQEFRKACYTLTGYQIDITTENQYRLTSLYAEHPG  
DCLIFKATSPSGSKMQLLETEFSHTVGELIEVHLRRQDSIPAFLSSLTLELFSRQTVA

>sp|Q99750|MDFI\_HUMAN MyoD family inhibitor OS=Homo sapiens GN=MDFI PE=1 SV=1

MYQVSGQRPSGCDAPYGAAPGPAQTLSELLPGLEVVTGSTHPAEAAPEEGSLEEAATP  
MPQNGPGPIPGQLDSTDLDVPTAEAVTCQPQGNPLGCTPLLPNDSGHPSELGGTRRAGNGA  
LGGPKAHRKLQTHPSLASQGSKSKSSSKSTTSQIPLQAQEDCCVHCILSCLFCEFLTLC  
NIVLDCATCGSCSSEDSCLCCCCGSGECADCDLPCDLDCGILDACCESADCLEICMECC  
GLCFSS

>sp|Q7Z553|MDGA2\_HUMAN MAM domain-containing glycosylphosphatidylinositol anchor protein  
2 OS=Homo sapiens GN=MDGA2 PE=1 SV=2

MDLLYGLVWLLTVLLEGISGQGVYAPPTVRIVHSLACNIEEERYSERVYTIREGETLEL  
TCLVTGHPRPQIRWTKTAGSASDRFQDSSVFNETLRITNIQRHQGGRYCYCAENGLGSPA  
IKSIRVDVYYLDDPVVTVHQSIGEAKEQFYERTVFLRCVANSNPPVRYSWRRGQEVLLQ  
GSDKGVEIYEPFFTQGETKILKLNLRPDYANYSCIASVRNVCNIPDKMVSFRLSNKTA  
SPSIKLLVDDPIVVNPGEAITLVCVTTGGEPAPSLTWVRSFGLTPEKTVLNGGTLTIPAI  
TSDDAGTYSCIANNVGNPAKKSTNIIVRALKKGRFWITPDYPHKDDNIQIGREVKISCQ  
VEAVPSEELTFSWFKNGRPLRSSERMVITQTDPDVSPGTTNLDIIDLKFTDFGTTCVAS  
LKGGGISDISIDVNISSTVPPNLTVPQKSPLVTREGDTIELQCQVTGPKPIILWSRA  
DKEVAMPDGSQMESYDGLTRIVNVSREMSGMYRCQTSQYNGFNVKPREALVQLIVQYPP  
AVEPAFLEIRQGQDRSVTMSCRVLRAYPIRVLTIEWRLGNKLLRTGQFDSQEYTEYAVKS  
LSNENYGVYNCSIINEAGAGRCSFLVTGKAYAPEFYDYTNPVWQNRHRVYSYSLQWTQM

NPDAVDRI VAYRLGIRQAGQQRWWEQEIKINGNIQKGELITYNLTELKPEAYEVRLTPL  
TKFGECDSTIRVIKYSAPVNPHLREFHCGFEDGNICLFTQDDTDNFDWTKQSTATRNTKY  
TPNTGPNADRSGSKEGFYMYIETSRPRLEGEKARLLSPVFSIAPKNPYGPTNTAYCFSFF  
YHMYGQHQHIGVLNVYLRLKGQTTIENPLWSSSGNKGQRWNEAHVNIYPITSFQLIFEGIRG  
PGIEGDIAIDDVSIAGECAKQDLATKNSVDGAVGILVHIWLFPIIVLISILSPRR

>sp|Q9ULK4|MED23\_HUMAN Mediator of RNA polymerase II transcription subunit 23 OS=Homo  
sapiens GN=MED23 PE=1 SV=2

METQLQSIFEEVVKTEVIEEAFPGMFMDTPEDEKTKLISCLGAFRQFWGGLSQESHEQCI  
QWIVKFIHQHSPKRISFLYDCLAMAVETGLLPRLVCESLINSDTLEWERTQLWALTFK  
LVRKIIGGVVDYKGVRLDLKLVILEKILTIPNTVSSAVVQQLLAAREVIAYILERNACLLPA  
YFAVTEIRKLYPEGKLPHWLLGNLVSDFVDTFRPTARINSLCGRCSLLPVVNSGAICNS  
WKLDPATLRFPLKGLLPYDKDLFEPQTALLRVYLEQPYSRDMVCNMLGLNKQHKQRCPLV  
EDQLVDLVVYAMERSETEEKFDDGGTSQLLWQHLSSQLIFFVLFQFASFPHMVLSLHQKL  
AGRGLIKGRDHLMWVLLQFISGSIQKNALADFLPVMKLFLLYPEKEYIPVPDINKPQST  
HAFAMTCIWIHLNRKAQNDNSKLQIPPHSLRLHHEFLQQSLRNKSLQMNDYKIALLCNA  
YSTNSECFITLPMGALVETIYNGIMRIPLPGTNCMASGSITPLPMNLDSLTVHAKMSLI  
HSIATRVIKLAHAKSSVALAPALVETYSRLLVYMEIESLGIKGFISQLLPTVFKSHAWGI  
LHTLLEMFYSRMHHIQPHYRVQLLSHLHTLAAVAQTNQNLHLCVESTALRLITALGSSE  
VQPQFTRFLSDPKTVLSAESEELNRALILTLARATHVTDFFTGSDSIQGTWCKDILQTIM  
SFTPHNWASHTLSCFPGLQAFFKQNNVPQESRFNLKKNVEEYRKWKSMNSNDIITHF  
SMQGSPPFLCLLWKMLLETDHINQIGYRVLERIGARLVAHVRTFADFLVYEFSTSAGG  
QQLNKCIETLNDMVWYNIIVTLDRILCLAMRSHEGNEAQVCYFIQLLLLKPNDFRNRV  
SDFVKENSPEHWLQNDWHTKHMNYHKKYPEKLYFEGLAEQVDPVQIQSPYLPITYFGNVC  
LRFLPVFDIVIHRLFELLLPVSKSLETLLDHLGGLYKFHDRPVTYLYNTLHYEMHLRDRA  
FLKRKLVAHAIIGSLKDNRPQGWCLSDTYKLCAMNAREENPWVDDTYYCRLIGRLVDTMA  
GKSPGPPFNCDWRFNEFPNPAHALHVTCELMAVSGKEVGNALLNVVLKSQPLVPRE  
NITAWMNAIGLIITALPEPYWIVLHDRIVSIVSSPSLTSETEWVGYPFRLFDFTACHQSY  
SEMSCSYTLALAHAVWHSSIGQLSLIPKFLTEVLLPIVKTEFQLLYVYHLVGPFLQRFQ  
QERTRCMIEIGVAFYDMLLNVDQCSTHLNMDPICDFLYHMKYMTGDSVKEQVEKIIICN  
LKPALKLRLRFITHISKMEPAAVPPQAMNSGSPAPQSNQVPVSLPVTQ

>sp|Q9BV36|MELPH\_HUMAN Melanophilin OS=Homo sapiens GN=MLPH PE=1 SV=1

MGKKLDLSKLTDEEAQHVLVVQRDFDLRRKEERLEALKGKIKKESKRELLSDTAHLN  
ETHCARCLQPYQLLVNSKRQCLEGLFTCKSCGRVHPPEEQGWICDPCHLARVVKIGSLEW  
YYEHVKARFKRFGSAKVIIRSLHGRLQGGAGPELISEERSGDSDDQTDDEGEPSAQQAQ  
PFGSKKKRLLSVHDFDFEGDSDSTQPQGHSLHLSSVPEARDSPQSLTDESCSEKAAPHK  
AEGLEEADTGASGCHSHPEEQPTSISPSRHGALAECPGGSHRMALGTAAALGSNVIRN  
EQLPLQYLADVDTSDEESIRAHVMASHHKKRRGRASSESQIFELNKHISAVECLLTYLEN  
TVVPPLAKGLGAGVRTEADVEEEALRRKLEELTSNVSDQETSSEEEAKDEKAEPNRDKS  
VGPLPQADPEVGTAHQTNRQEKSPQDPGDPVQYNRTTDEELSELEDRVAVTASEVQQAE  
SEVSDIESRIAALRAAGLTVKPSGKPRRKSNIPLPRVAGKLGRPEDPNADPSSEAKA  
MAVPYLLRRKFSNSLKSQKDDDSFDRKSVYRGSALTQRNPNARKGMASHTFAKPVVAHQ

>sp|Q86TE4|LUZP2\_HUMAN Leucine zipper protein 2 OS=Homo sapiens GN=LUZP2 PE=2 SV=2

MKFSPAHYLLPLPALVLSTRQDYEELEKQLKEVFKERSTILRQLTKTSRELDGIKVNQ  
SLKNDEQSAKTDVQKLLELGQKQREEMKSLQEALQNQLKETSEKAKEHQATINFLKTEVE

RKSKMIRDLQENKSLKNKLLSGNLCGIHAEESKKIQAQLKELRYGKKDLLFKAQQLTD  
LEQKLAVAKNELEKAALDRESQMKAMKETVQLCLTSVFRDQPPPPLSLITSNPTRMLLPP  
RNIASKLPDAAASKPQQSASGNNESSQVESTKEGNPSTTACDSQDEGRPCSMKHESPP  
SNATAETEPQPQLQMPPCSECEVKAPEKPLTSFEGMAAREEKIL

>sp|P01699|LV144\_HUMAN Immunoglobulin lambda variable 1-44 OS=Homo sapiens GN=IGLV1-44  
PE=1 SV=2

MASFPLLLTLLTHCAGSWAQSVLTQPPSASGTPGQRTISCSGSSSNIGSNTVNWYQQLP  
GTAPKLLIYSNNQRPSGVPDRFSGSKSGTSASLAISGLQSEDEADYYCAAWDDSLNG

>sp|P01701|LV151\_HUMAN Immunoglobulin lambda variable 1-51 OS=Homo sapiens GN=IGLV1-51  
PE=1 SV=2

MTCSPLLLTLIHCTGSWAQSVLTQPPSVSAAPGQKVTISCSGSSSNIGNNYVSWYQQLP  
GTAPKLLIYDNNKRPSGIPDRFSGSKSGTSATLGITGLQTGDEADYYCGTWDSLSA

>sp|P01709|LV208\_HUMAN Immunoglobulin lambda variable 2-8 OS=Homo sapiens GN=IGLV2-8 PE=1  
SV=2

MAWALLLLTLLTQGTGSWAQSVLTQPPSASGSPGQSVTISCTGTSSDVGGYNYVSWYQQH  
PGKAPKLMIEVSKRPSGVPDRFSGSKSGNTASLTVSGLQAEDEADYYCASYAGSNNF

>sp|P01714|LV319\_HUMAN Immunoglobulin lambda variable 3-19 OS=Homo sapiens GN=IGLV3-19  
PE=1 SV=2

MAWTPLWLTLTLCIGSVVSELTDQPAVSVALGQTVRITCQGDSLRSYYASWYQKPGQ  
APVLVIYGKNNRPSGIPDRFSGSSSGNTASLTITGAQAEDEADYYCNSRDSS

>sp|P80748|LV321\_HUMAN Immunoglobulin lambda variable 3-21 OS=Homo sapiens GN=IGLV3-21  
PE=1 SV=2

MAWTVLLLGLLSHCTGSVTSYVLTQPPSVSVAPGQTARITCGGNNIGSKSVHWYQKPGQ  
APVLVYDDSDRPSGIPERFSGSNSGNTATLTISRVEAGDEADYYCQVWDSSDHPT

>sp|P01721|LV657\_HUMAN Immunoglobulin lambda variable 6-57 OS=Homo sapiens GN=IGLV6-57  
PE=1 SV=2

MAWAPLLLTLHAHCTGSWANFMLTQPHSVSESPGKTVTISCTGSSGSIASNYVQWYQGRP  
GSAPTTVIYEDNQRPSGVPDRFSGSIDSSNSASLTISGLKTEDEADYYCQSYDSSN

>sp|Q5SRR4|LY65C\_HUMAN Lymphocyte antigen 6 complex locus protein G5c OS=Homo sapiens  
GN=LY6G5C PE=1 SV=1

MRFMAGPAGSQSLGPLCFHSSPQALYTVLLIVLVMSLVFGKFVPVNWEPQPLPFPKYL  
RCYRCLLETKELGCLGSDICLTPAGSSCITLHKKNSSGSDVMVSDCRSKEQMSDCSNTR  
TSPVSGFWIFSQYCFDFCNDPQNRGLYTP

>sp|Q86SG7|LYG2\_HUMAN Lysozyme g-like protein 2 OS=Homo sapiens GN=LYG2 PE=1 SV=2

MLSSVVFVGLIALIGTSRGSYPFHSKPHLHPRLYHGCYGDIMTKTSGATCDANSVMN  
CGIRGSEMFAEMDLRAIKPYQTLIKEVGQRHCVDPAVIAAIIISRESHGGSVLQDGWDHRG  
LKFGLMQLDKQTYHPVGAWDSKEHLSQATGILTERIKAIQKKFPTWSVAQHLKGGLSAFK  
SGIEAIATPSDIDNDFVNDIIARAKFYKRQSF

>sp|P28300|LYOX\_HUMAN Protein-lysine 6-oxidase OS=Homo sapiens GN=LOX PE=1 SV=2

MRFAWTVLLLGLPLQCALVHCAPPAAGQQPPPREPPAAPGAWRQQIQWENNGQVFSLLSL  
GSQYQPQRRRDPGAAPGAANASAAQPRTPILLIRDNRATAARTTAGSSGVTAGRPRPT  
ARHWFQAGYSTSRAREAGASRAENQTAPGEVPALSNLRPPSRVDGMVGDDPYNPYKYSDD  
NPYYNYDYTYERPRPGGRYPGYGTGYFQYGLPDLVADPYIYQASTYVQKMSMYNLRCAA  
EENCLASTAYRADVRDYLHRVLLRFPQRVKNQGTSDFLPSRPRYSWEHWSCHQHYHSMDE

FSHYDLLDANTQRRVAEGHKASFCL EDTSCDYG YHRRFACTAHTQGLSPGCDTYGADID  
CQWIDITDVKPGNYILKVSVNPSYLPESDYTNNVRC DIRYTGH HAYASGCTISPY

>sp|Q9NU23|LYRM2\_HUMAN LYR motif-containing protein 2 OS=Homo sapiens GN=LYRM2 PE=1 SV=1  
MAASRLPPATLTLKQFVRRQQVLLLYRRILQTIRQVPNDSDRKYLKDWAREEFRRNKSAT  
EEDTIRMMITQGNMQLKELEKTLALAKS

>sp|Q5U5X0|LYRM7\_HUMAN Complex III assembly factor LYRM7 OS=Homo sapiens GN=LYRM7 PE=1  
SV=1  
MGRAVKVLQLFKTLHRTRQQVFKN DARALEAARIKINEEFKNNKSETSSKKIEELMKIGS  
DVELLRTSVIQGIHTDHTLKL VPRKDLLVENVPYCDAPTQKQ

>sp|Q9NQ48|LZTL1\_HUMAN Leucine zipper transcription factor-like protein 1 OS=Homo sapiens  
GN=LZTFL1 PE=1 SV=1

MAELGLNEHHQNEVINYMRFARSKRGLRLKTVDS CFQDLKESRLVEDTFTIDEVSEVLNG  
LQAVVHSEVESELINTAYTNVLLLRQLFAQAEKWY LKLQTDISELENRELLEQVAEFEKA  
EITSSNKKPILDVTKPKLAPLNEGGAELLNKEILRLQEENEKLSRLKTIEIQATNALD  
EKSLEKALQDLQLDQGNQKDFIKAQDL SNLENTVAALKSEFQKTLNDKTENQKSLEENL  
ATAKHDLRLVQEQLHMAEKELEKKFQQTAA YRNMKEILTKKNDQIKDLRKRLAQYEPED

>sp|Q9Y250|LZTS1\_HUMAN Leucine zipper putative tumor suppressor 1 OS=Homo sapiens GN=LZTS1  
PE=1 SV=3

MGSVSSLISGHSFHSKHCRA SQYKLRKSSHLKKNRYSDGLLRFGFSQDSGHGKSSSKMG  
KSEDFFYIKVSQKARGSHHPDY TALSSGDLGGQAGVDFDPSTPPKLM PFSNQLEMGEK  
AVRPTAFKPVLP RSGAILHSSPESASHQLHPAPDPKPEQELKPGLCSGALSDSGRNSMS  
SLPTHSTSSSYQLDPLVTPVGPTSRFGGSAHNITQGIVLQDSNMMSLKALSFSDGGSKL  
GHSNKADKGPSCVRSP ISTDECSIQELEQKLLEREGALQKLQRSFEEKELASSLAYEERPR  
RCRDELEGPEPKGGNKLKQASQKSQRAQQVLHLQVLQLQ QEKRLRQEESLMKEQDLLE  
TKLSYEREKTSFGPALEETQWEVCQKSGEISLLKQQLKESQTEVNAKASEILGLKAQLK  
DTRGKLEGLELRTQDLEGALRTKGLELEV CENELQRKKNEAELLREKVNLEQELQELRA  
QAALARDMGPPTFPEDVPALQRELERLRAELREERQGHDMSSGFQHERLVWKEEKEKVI  
QYQKQLQQSYVAMYQRNQRLEKALQQ LARGDSAGEPLEVDLEGADIPYEDIATEI

>sp|Q5VYJ5|MALR1\_HUMAN MAM and LDL-receptor class A domain-containing protein 1 OS=Homo  
sapiens GN=MALRD1 PE=1 SV=4

MLFFLDRLMAFP MNETFCLW IACVFNSTLAQQGTESFQCDNGVSLPPDSICDFTDQCGD  
SSDERHCLNYERCFEDGLCHMTQDQSLQPSWTKRSGMIGLSP PFYDHNGDVSAHFLSLV  
SRVDSISSSLRSRVFLPTNDQHDCQITFY YFSCQVSGKLMVGLQTACGGPIQHLWQNTAA  
LPNQWERNVIKIQSSQRFQVVFEGQMASTYEQDEVI AIDDISFSSGCLPANDGILLCQEA  
LNAERELCHPD TDLCRFDATDEELRLCQACGFEDMCEWTSEASAGQISWMRTKAREIPA  
FESTPQQDQGGDDEGYVWVGAKHGFTLNHLDSRAYLNSSVCHCLGKSCHLQFY YAMESS  
VLRVRLYNNKEE EIFWTYNISTHSQWVKADVLIPEDLKT FKIIFEGTLLSQRSFIALDHL  
WVYACGQTQSRKLCSADEFPCTSGQCIAKESVCDSRQDCSDEDEDPATCSKHLTCDFES  
GFCGWEPFLTEDSHWKL MKGLNNGEHHFPAADHTANINHGSFIY LEAQRSPGVAKLGSPV  
LTKLLTASTPCQVQFWYHLSQHSNLSV FTRTSLDGNLQKQGKIIRFSESQWSHAKIDLIA  
EAGESTLPFQLILEATVLSSNATVALDDISVSQECEISYKSLPRTSTQSKFSKCDFEANS  
CDWFEAISGDHFDWIRSSQSELSADFEHQAPPRDHSLNASQGHFMFILKSSSLWQVAKL  
QSPTFSQTGPGCILSFWFYNYGLSVGAAELQLHMENSHDSTVIWRVLYNQGKWLEATI Q  
LGRLSQPFHLSL DKVSLGIYDGVSAIDDIRFENCTLPLAESCEGLDHFWRHTRACIEK

LRLCDLVDDCGDRTDEVNCAPELQCNFETGICNWEQDAKDDFDWTRSQGPTPTLNTGPMK  
DNTLTAKGHYLYIESSEPQAFQDSAALLSPILNATDTKGCTFRFYHMF GKRIYRLAIY  
QRIWSDSRGQLLWQIFGNQGNRWIRKHLNISSRQPFQILVEASVGDGFTGDIADDLFSM  
DCTLYPGNLPADLTPPETSVPTLPPHNCTDNEFICRSDGHCIEKMQKCDFKYDCPDKS  
DEASCVMEVCSFEKRSCLKWYQPIPVHLLQDSNTFRWGLGNGISIHGGEENHRPSVDHTQ  
NTTDGWLYADSSNGKFGDTADILTPIISLTGPKCTLVFWTHMNGATVGSLLQVLIKKDNV  
TSKLWAQTGQGAQWKRAEVFLGIRSHTQIVFRAKRGISYIGDVAVDDISFQDCSPLLSP  
ERKCTDHEFMCANKHCI AKDKLCDFVNDCADNSDETTFCRTSSGRCDFEFDLCSWKQEK  
DEDFDWNLKASSIPAAGTEPAADHTLGNSSGHYIFIKSLFPQQPMRAARISSPVISKRSK  
NCKIIFHYHMYGNGIGALTLMQVSVTNQTKVLLNLTVEQGNFWRREELSLFGDEDFQLKF  
EGRVKGQGRGDIALDDIVLTENCLSLHDSVQEELAVPLPTGFCPLGYRECHNGKCYRLEQ  
SCNFVDNCGDNTDENECSSCTFEKGWGWQNSQADNFDWVLGVGSHQSLRPPKDHTLGN  
ENGHFMYLEATAVGLRGDKAHFRSTMWRESSAACTMSFWYFVSAKATGSIQILIKTEKGL  
SKVWQESKQNPNGHWQKADILLGKLRNFEVIFQGITRDLGGGAAIDIEFKNCTTVGEI  
SELCPETDFLCRDKKCIASHLLCDYKPDSDRSDEAHCAHYTSTTGSCNFETSSGNWTT  
ACSLTQDSEDDLWAIGSRIPAKALIPDSHTPGSGQHFLYVNSSGSKESVARITTSKS  
FPASLMCTVRFWFYIDPRSMGILKVYTIIESGLNILVWSVIGNKRTGWTYGSVPLSSN  
SPFKVAFEADLDGNEDIFIALDDISFTPECVTGGPVPVQSPCEADQFSCIYTLQCVPLS  
GKCDGHEDCIDGSDEMDCPLSPTPLCSNMEFPCSTDECIPSLLLCDGVPDCHFNEDELI  
CSNKSCSNGALVCASSNSCIPAHQRCDGFADCMDFQLDESSCSECPLNYCRNGGTCVVEK  
NGPMCRCRQGKGWGNRCHIKFNPPATDFTYAQNNTWTLGLGLAFLMTHITVAVLCFLANR  
KVPIRKTEGSGNCAFVNPVYGNWSNPEKTESSVYSFSNPLYGTTSGSLETLSHHLK

>sp|Q9UDY8|MALT1\_HUMAN Mucosa-associated lymphoid tissue lymphoma translocation protein  
1 OS=Homo sapiens GN=MALT1 PE=1 SV=1

MSLLGDPLQALPPSAAPTGPLLAPPAGATLNLREPLRLSELDDQAPEGRGWRRLAEL  
AGSRGRLRLSCLDLEQCSLKVLEPEGSPSLCLLKMGEKGCTVTELSDFLQAMEHTEVLQ  
LLSPPGIKITVNPESKAVLAGQFVKLCCRATGHPFVQYQWFKMNKEIPNGNTSELIFNAV  
HVKDAGFYVCRVNNNFTFEFSQWSQLDVCDIPESFQRSVDGVSES KLQICVEPTSQKLMP  
GSTLVLQCVAVGSPIPHYYQWFKNELPLTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQD  
SKKVEIIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKLK  
APLDVYVELTNLLRQLDFKVSLDDLTEYEMRNAVDEFLLLLDKGVYGLLYAGHGYENF  
GNSFMVPVDAPNPYRSENCLCVQNILKLMQEKETGLNVFLDMCRKRNDYDDTIPILDAL  
KVTANIVFGYATCQGAFAFEIQHSGLANGIFMKFLKDRILLEDKKITVLLDEVAEDMGKCH  
LTKGKQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPESMCLKFDCGVQI  
QLGFAAEFSNVMIIYTSIVYKPPEIIMCDAYVTDPLDLIDPKDANKGTPEETGSYLV  
KDLPHCLYTRLSSLQKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPLIAKLDMHRG  
LGRKTCFQTCLSNPGPYQSSAATSGGAGHYHSLQDPFHGVYHSHPGNPSNVTPADSCHCS  
RTPDAFISSFAHHASCHFSRSNVPVETTDEIPFSFSRDLRISEK

>sp|P04201|MAS\_HUMAN Proto-oncogene Mas OS=Homo sapiens GN=MAS1 PE=1 SV=1

MDGSNVTSFVVEPTNISTGRNASVGNHRQIPIVHWVIMSISPVGVENGILLWFLCFR  
MRRNPFTVYITHLSIADISLLFCIFILSIDYALDYELSSGHYYTIVTLSVTFLFGYNTGL  
YLLTAISVERCLSVLYPIWYRCHRPKYQSALVCALLWALSCLVTTMEYVMCIDREEESH  
RND CRAVIFIAILSFLVFTPLMLVSSTILVVKIRKNTWASHSSKLYIVIMVTIIIFLIF  
AMPMRLLYLLYEWSTFGNLHHISLLFSTINSSANPFIYFFVGSSKKKRFKESLKVLT

RAFKDEMQPRRQKDCNCTVTVETVV

>sp|P51948|MAT1\_HUMAN CDK-activating kinase assembly factor MAT1 OS=Homo sapiens GN=MNAT1 PE=1 SV=1

MDDQGCPRCTTKYRNP SLKLMVNVCGHTLCESCVDLLFVRGAGNCPECGTPLRKS NFRV  
QLFEDPTVDKEVEIRKKVLKIYNKREEDFPSLREYNDFLEEEVEEIVFNLTNNVDLDNTKK  
KMEIYQKENKDVIQKNKLKLTREQEELEEALEVERQENEQRRLFIQKEEQ LQQILKRKNK  
QAFLEDESSDLPVALLLAQHKDRSTQLEMQLEKPKPKVPVTFSTGIKMGQHISLAPIHK  
LEEALYEYQPLQIETYGPHVPELEMLGRLGYLNHVRAASPQDLAGGYTSSLACHRALQDA  
FSGLFWQPS

>sp|Q9BQG0|MBB1A\_HUMAN Myb-binding protein 1A OS=Homo sapiens GN=MYBBP1A PE=1 SV=2

MESRDP AQPMSPGEATQSGARPADRYGLLKHSREFLDFFWDIAKPEQETRLAATEK LLEY  
LRGRPKGSEMKYALKRLITGLGVGRE TARPCYSLAL AQLLQSFEDLPLCSILQQIQEKYD  
LHQVKKAMLRPALFANLFGVLALFQSGRLVKDQEALMKS VKLLQALAQYQNHLEQPRKA  
LVDILSEVSKATLQEILPEVLKADLNIILSSPEQLELFLLAQQKVP SKLKKLVGSVNLFS  
DENVPRLVNVLKMAASSVKDKRKLPAIALDLLRLALKEDKFRFWKEVVEQGLLKMQFWP  
ASYLCFRLLGAALPLLTKQLHLVMQGDVIRHYGEHVCTAKLPKQFKFAPEMDDYVGTFL  
EGCQDDPERQLAVLVAFSSVTNQGLPVTPTFWRVVRLSPPALQGYVAWL RAMFLQPDLD  
SLVDFSTNNQKKAQDSSLHMPERAVFRLRKWIIFRLVSI VDSLHLEMEEALTEQVARFCL  
FHSFFVTKKPTSQIPETKHPFSFPLENQAREAVSSAFFSLLQTLSTQFKQAPGQTQGGQP  
WTYHLVQFADLLLNHSHNVTVTPTFAQQRQAWDRMLQTLKELEAHS AEARAAAFQHLLL  
LVGIHLKSPAESCDLLGDIQTCIRKSLGEKPRRSRTKTIDPQEPPWVEVLVEILLALLA  
QPSHLMRQVARSVFGHICSHLTPRALQLILDVLNPETSEDENDRVVVTDDSDERRLKGAE  
DKSEEGEDNRSSESEEEEESEGESEEEEEERDGDVDQGFREQ LMTVLQAGKALGGEDSENEEE  
LGDEAMMALDQSLASLFAEQKLRIQARRDEKNKLQKEKALRRDFQIRVLDLVEVLVTKQP  
ENALVLELLEPLLSIIRSLRSSSSKQEQLLHKTARIFTHHLCRARRYCHDLGERAGAL  
HAQVERLVQQAGRQPDSTALYHFNASLYLLRVLKGNTAEGCVHETQEKQKAGTDP SHMP  
TGPQAASCLDLNLVTRVYSTALSSFLTKRNSPLTVPMFLSLFSRHPVLCQSLLPILVQHI  
TGPVPRRHQACLLQKTL SMREVRSCFEDPEWKQLMGQVLAKVTENLRVLGEAQTKAQHQ  
QALSSLELLNVLFRTCKHEKLTLDLTVLLGVLQGGQQSLQGAHSTGSSRLHDLYWQAMK  
TLGVQRPKLEKKDAKEIPSATQSPISKRRKKKGFLPETKKRKKRKS EDGTPAEDGTPAAT  
GGSQPPSMGRKKRNRTAKVPAQANGTPTTKSPAPGAPTRSPSTPAKSPKLQKKNQKPSQ  
VNGAPGSPTEPAGQKQH QALPKKGVLGKSPLSALARKKARLSLIRSPSLLQSGAKKKA  
QVRKAGKP

>sp|Q9NUK0|MBNL3\_HUMAN Muscleblind-like protein 3 OS=Homo sapiens GN=MBNL3 PE=1 SV=2

MTAVNVALIRD TKWLTLEVCREFQRGTC SRADADCKFAHPPRVCHVENGRVVACFDSLKG  
RCTRENCKYLHPPPHLKTQLE INGRNNLIQQKTAAAMFAQQMQLMLQNAQMSSLGSFPMT  
PSIPANPPMAFNPIPHPGMGLVPAELVPNTPVLI PGNPPLAMP GAVGPKLMRSDKLEVC  
REFQRGNCTRGENDCRYAHPTDASMI EASDNTVTICMDYIKGRCSREKCKYFHPPAHLQA  
RLKAAHHQMNHSAASAMALQPGTLQLIPKRSAL EKPNGATPVFNPTVFHCQ QALTNLQLP  
QPAFIPAGPILCMAPASNIVPMMHGATPTTVSAATTPATSV PFAAPTGNQLKF

>sp|Q4ZIN3|MBRL\_HUMAN Membralin OS=Homo sapiens GN=TMEM259 PE=1 SV=1

MSEHVEPAAPGPGPNGGGGPAPARGPRTPNLNP NPLINVRDRLFHALFFKMAVTYSRLF  
PPAFRRRLFEEFFVLLKALFVLVFLAYIHIVFSRSP INCLEHVRDKWPREGILRVEVRHNS  
RAPVFLQFCDSGGRGSFPGLAVEPGSNL DMEDEEEEEELTMEMFGNSSIKFELDIEPKVFK

PPSSTEALNDSQEFPPETPTKVWPQDEYIVEYSLEYGFLRLSQATRQRLSIPVMVVTLD  
PTRDQCFGDRFSRLLLEFLGYDDILMSSVKGLAENEENKGFLRNVVSGEHYRFVSMWMA  
RTSYLAAFAIMVIFTLSVSMLLRYSHHQIFVFIVDLLQMLEMMAIAFPAAPLLTVILAL  
VGMEAIMSEFFNDTTAFYIILIVWLADQYDAICCHTSTSKRHWLRFFLYLHFAYAYHY  
RFNGQYSSLALVTSWLFIQHSMIYFFHHYELPAILQQVRIQEMLLQAPPLGPGTPTALPD  
DMNNNSGAPATAPDSAGQPPALGPVSPGASGSPGPVAAAPSSLVAAAASVAAAAGDGLGW  
MAETAIIITDASFLSGLSASLLERRPASPLGPAGGLPHAPQDSVPPSDSAASDTTPLGAA  
VGGPSPASMAPTEAPSEVGS

>sp|P41968|MC3R\_HUMAN Melanocortin receptor 3 OS=Homo sapiens GN=MC3R PE=1 SV=3

MNASCCLPVQPTLPNGSEHLQAPFFSNQSSSAFCEQVFIKPEVFLSLGIVSLENILVI  
LAVVRNGNLHSPMYFFLCSLAVADMLVSVSNALETIMIAIVHSDYLTFFEDQFIQHMDNIF  
DSMICISLVASICNLLAIAVDRYVTIFYALRYHSIMTVRKALTLIVAIWCCGVCVVFI  
VYSESKMVIVCLITMFFAMMLLMGTLYVHMFLFARLHVKRIAALPPADGVAPQQHSCMKG  
AVTITILLGVFIFCWAPFFLHLVLIITCPTNPYCICYTAHFNTYLVLMCNSVIDPLIYA  
FRSLELRNTFREILCGCNGMNLG

>sp|Q8N8R3|MCATL\_HUMAN Mitochondrial basic amino acids transporter OS=Homo sapiens  
GN=SLC25A29 PE=1 SV=2

MALDFLAGCAGGVAGVLVGHFPDITVKVRLQVQSVEKPQYRGTLHCFKSIKQESVLGLYK  
GLGSPLMGLTFINALVFGVQGNTLRALGHDSPLNQFLAGAAAGAIQCVICCPMELAKTRL  
QLQDAGPARTYKGSLDCLAQIYGHEGLRGVNRGMVSTLLRETPSFGVYFLTYDALTRALG  
CEPGDRLLVPKLLLAGGTSGIVSWLSTYPVDVVKSRQADGLRGAPRYRGILDCVHQSYR  
AEGWRVFRGLASTLLRAFPVNAATFATVTVVLTARGEAEAGPEGEAVPAAPAGPALAQP  
SSL

>sp|Q9GZU1|MCLN1\_HUMAN Mucolipin-1 OS=Homo sapiens GN=MCLN1 PE=1 SV=1

MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKG  
RKPCCKMLQVVKILVVTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAY  
TREQLYQAIFHAVDQYLALPDVSLGRYAYVRGGGDPWTNGSGLALCQRYYHRGHVDPAND  
TFDIDPMVVTDCIQVDPPEPPPPPSDDLTLLESSSSYKNLTLKFHKLNVNTHFRLTKTI  
NLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISLETQAHIQECHKPSVFQHGDNFRLL  
FDVVVILTCSLSFLLCARSLRGFLLQNEFVGFMRQRGRVISLWERLEFVNGWYILLVT  
SDVLTISGTIMKIGIEAKNLASYDVCSILLGTSTLLVWVGVIYRLTFFHNYNIIATLRV  
ALPSVMRFCCCVAVIYLYGFCGWIVLGPYHVKFRSLMVSECLFSLINGDDMFVTFAM  
QAQQGRSSLVWLFSLYLYSFISLFIYMLSLFIALITGAYDTIKHPGGAGAESEELQAY  
IAQCQDSPTSGBKFRRGSGSACSLCCCGRDPSEEHSLLVN

>sp|Q9NXL9|MCM9\_HUMAN DNA helicase MCM9 OS=Homo sapiens GN=MCM9 PE=1 SV=4

MNSDQVTLVGQVFESYVSEYHKNDILLILKERDEDAHYPVVVNAMTLFETNMEIGEYFNM  
FPSEVLTIFDSALRRSALTILQSLSQPEAVSMKQNLHARISGLPVCPELVREHIPKTKDV  
GHFLSVTGTVIRTSLVKVLEFERDYMCNKCKHVFIKADFEQYYTFCRPSSCPSLESCDS  
SKFTCLSGLSSTPTRCRDYQEIKIQEQQRLSVGSIPRSMKVILEDLVDCKSGDDLTI  
YGIVMRWKPFQQDVRCEVEIVLKANYIQVNNEQSSGIIMDEEVQKEFEDFWEYYKSDPF  
AGRNVILASLCPQVFGMYLVKLAVAMVLAGGIQRTDATGTRVRGESHLLLVGDPGTGKSQ  
FLKYAAKITPRSVLTGTIGSTSAGLTVTAVKDSGEWNLEAGALVLADAGLCCIDEFNSLK  
EHDRTSIEAMEQQTISVAKAGLVCKLNTRTTILAATNPKGQYDPQESVSVNIALGSPLL  
SRFDLILVLLDTKNEDWDRIISSFILENKGYPKSEKLWSMEKMKTYFCLIRNLQPTLSD

VGNQVLLRYYQMRQSDCRNAARTTIRLLESIRLAEAHARLMFRDVTLTLEDAITVVSVM  
ESSMQGGALLGGVNALHTSFPENPGEYQRQCELILEKLELQSLSEELRRLERLQNSV  
HQSQPRVLEVETTPGSLRNGPGEESNFRSTSSQQEINYSTHIFSPGGSPEGSPVLDPPPHL  
EPNRSTSRKHSQAQHKNNRDDSLDWFDFMATHQSEPKNVTVVSPHKTSGENMASKISNST  
SQGKEKSEPGQRSKVDIGLLPSPGETGVPWRADNVESNKKKRLALDSEAAVSADKPDSVL  
THHVPRNLQKLCKERAQKLCRNSTRVPAQCTVPSHPQSTPVHSPDRMLDSPKRKRPKSLA  
QVEEPAIENVKPPGSPVAKLAKFTFKQKSKLIHSFEDHSHVSPGATKIAVHSPKISQRRT  
RRDAALPVKRPGLTSTPGNQISSQPQGETKEVSQQPPEKHGPREKVMCAPEKRIIQPEL  
ELGNETGCAHLTCEGDKKEEVSGSNKSGKVHACTLARLANFCFTPPSESKSKSPPPERKN  
RGERGPSSPPTTTAPMRVSKRKSFQLRGSTEKLIVSKESLFTLPELGDEAFDCDWDEEMR  
KKS

>sp|Q4G0Z9|MCMDC2\_HUMAN MCM domain-containing protein 2 OS=Homo sapiens GN=MCMDC2 PE=1  
SV=3

MSNLKMKEAALIYLDMSGGLQKFIDCKYYNDSKQSYAVYRFKILINPSDVVELDAELGN  
HILHQPLKAAEVFQSVCFIAVKTLISLIGQLTETQINIVLKLTHLPPLPSYGLDLCEFP  
DYTSQRFYMMQGIAMTTITKYTGARFLCSDEACPLSKGFQYIRVHVPGATESATIRN  
DFLCNLCASSLQEDRKFRVLGDKQIVEIIATKALRAFQGYSNQPFQSLTIFLRDESV  
NKMNIGNEYKIIIGIPTCVKTSQTAVCIEANSITFCNSKVPISDNFRCLLSLTSSSCWK  
FTAILANIFASQITPPGTYNLLKCLLSLVQTTDRNKELEDCLDILIIITSDTLLIDRLL  
NFSINLVPRGIRHLVSTEIIPTLNRNKYGTGAVSIQAGSALLAKGGICFIGDLASHKKDK  
LEQLQTVLESRSITVYIPGKKFGEDIDQQMTFPVQCSFWSFVDVSSRRNAQKINTLIG  
QMDCSLIPANLVEAFGLLINCNESSPCHPFLPTVQHTLNKAINPEGLFYAASRQFTTEDF  
EKLLAFANKLNVEFSLEAERMTHGYLASRRIRTGSVCGSKLSASALKYLVFLSEAHARL  
NLRNKVLKEDVLIALLFETSITLKYGATVFCVAPNAVFPFELYNEEYLEQRDLYLTCQ  
QQLEQFIATYGP GTTIFSSDE

>sp|Q8NEM0|MCPH1\_HUMAN Microcephalin OS=Homo sapiens GN=MCPH1 PE=1 SV=3

MAAPILKDVVAYVEVWSSNGTENYSKTFTTQLVDMGAKVSKTFNKQVTHVIFKDGYSQSTW  
DKAQKRGVKLVSVLWVEKCRTAGAHIDESLFPAANMNEHLSSLIKKKRCKMQPKDFNFKT  
PENDKRFQKKFEKMAKELQRQKTNLDDVPILLFESNGSLIYTPTIEINSRHHSAMEKRL  
QEMKEKRENLSPTSSQMIQQSHDNPSNSLCEAPLNISRDTLCSDEYFAGGLHSSFDDLGG  
NSGCGNQERKLEGSINDIKSDVCISLVLKANNIHSSPSFTHLDKSSPQKFLSNLSKEEI  
NLQRNIAGKVTPDQKQAAGMSQETFEKYRLSPTLSSTKGHLLIHSRPRSSSVKRRKVS  
HGSHSPPEKCKRKRSTRRSIMPRQLCRSEDRLQHVAGPALEALSCGESSYDDYFSPDN  
LKERYSENLPPESQLPSSPAQLSCRSLSKKERTSIFEMSDFSCVGKKTRTVDTNFTAKT  
ISSPRKTGNTEGRATSSCVTSAPEEALRCCRQAGKEDACPEGNGFSYTIEDPALPKGHDD  
DLTPLEGSLEEMKEAVGLKSTQNKGTTSKISNSSEGEAQSEHEPCFIVDCNMETSTEEKE  
NLPGGYSYGSVKNRPRTRHDVLDSDCDGFKDLIKPHEELKKSGRGKKPTRTLVMTSMPSEKQ  
NVVIQVVDKLGFSIAPDVCETTHVLSGKPLRTLNVLLGIARGCWVLSYDWVLSLELG  
HWISEEPFELSHHFPAAPLCRSECHLSAGPYRGTLFADQPMFVSPASSPPVAKLCELVH  
LCGGRVSQVPRQASIVIGPYSGKKKATVKYLSEKWVLDSTITQHKVCAPENYLLSQ

>sp|Q9BUT9|MCRI2\_HUMAN MAPK regulated corepressor interacting protein 2 OS=Homo sapiens  
GN=MCRIP2 PE=1 SV=2

MYTITKGPSKLVARRTGPTQQQVEGRLGELLKCRQPAPPTSQPPRAQPFAPPPGPWPLS  
SPGPRLVFNRVNGRRAPSTSPSFEGTQETYVAHEENVRFVSEAWQQVQQQLDGGPAGEG



GPRPVQYVERTPNPRLQNFVPIDLDEWWAQQFLARITSCS

>sp|Q96EZ8|MCRS1\_HUMAN Microspherule protein 1 OS=Homo sapiens GN=MCRS1 PE=1 SV=1

MDKDSQGLDSSLMASGTASRSEDEESLAGQKRASSQALGTIPKRSSSRFIKRKKFDDE  
LVESSLAKSSTRAKGASGVEPGRCSGSEPSSEKKKVSKAPSTPVPPSPAPAPGLTKRVK  
KSKQPLQVTKDLGRWKPADDLLLINAVLQTNDLTSVHLGVKFSCRFTLREVQERWYALLY  
DPVISKLACQAMRQLHPEAIAAIQSKALFSKAEEQLLSKVGSTSQPTLETQDLLHRHPD  
AFYLARTAKALQAHWQLMKQYYLLEDQTVQPLPKGDQVLNFSDAEDLIDDSKLKDMRDEV  
LEHELMVADRRQKREIRQLEQLHKWQVLVDSITGMSSPDFDNQTLAVLRGRMVRYLMRS  
REITLGRATKDNQIDVDLSLEGPAAWKISRKQGVIKLKNNGDFFIANEGRRPIYIDGRPVL  
CGSKWRLSNNSVVEIASLRFVFLINQDLIALIRAEAAKITPQ

>sp|Q9ULC4|MCTS1\_HUMAN Malignant T-cell-amplified sequence 1 OS=Homo sapiens GN=MCTS1  
PE=1 SV=1

MFKKFDEKENVSNCIQLKTSVIKGIKNQLIEQFPGIEPWLNQIMPKKDPVKIVRCHEHIE  
ILTVNGELLFFRQREGPFYPTLRLHKKYPFILPHQQVDKGAIKFVLSGANIMCPGLTSPG  
AKLYPAAVDITIVAIMAEGKQHALCVGVMKMSAEDIEKVNKGIGIENIHLYNDGLWHMKTY  
K

>sp|Q96AQ8|MCUR1\_HUMAN Mitochondrial calcium uniporter regulator 1 OS=Homo sapiens  
GN=MCUR1 PE=1 SV=1

MDCGSVGGQRTQRLPGRQRLFLPVGLSGRPGGSETSARRCLSALSDGLGALRPRAPAAR  
GGVSRASPLLLLLLVPSPRLAAAAARRQLGDWERSRLGYAAPPAGRSSAWRCSPGVAAAA  
GALPQYHGAPALVSCRRELSAGSLQLERKRRDFTSSGSRKLYFDTHALVCLLEDNGF  
ATQQAEIIVSALVKILEANMDIVYKDMVTMQQEITFQQVMSQIANVKKDMIILEKSEFS  
ALRAENEKIKLELHQLKQQVMDEVIKVRTDTKLDFNLEKSRVKELYSLEKKLLELRTEI  
VALHAQQDRALTQTDRKIETEVAGLKTMLESHKLDNIKYLAGSIFTCLTVALGFYRLWI

>sp|075448|MED24\_HUMAN Mediator of RNA polymerase II transcription subunit 24 OS=Homo  
sapiens GN=MED24 PE=1 SV=1

MKVVNLIKQAILQAWKERWSYQWAINMKKFFPKGATWDILNLADALLEQAMIGSPNPILI  
LSYLKYAISSQMVSYSSVLTAISKFDDFSRDLQVQALLDIMDMFCDRLSCHGKAEECIGL  
CRALLSALHWLLRCTAASAERLREGLEAGTPAAGEKQLAMCLQRLEKLSSTKNRALLHI  
AKLEEASSWTAIEHSLKLGEILANLSNPQLRSQAEQCGTLIRSIPTMLSVHAEQMHKTG  
FPTVHAVILLEGTMNLTGETQSLVEQLTMVKRMQHIPTPLFVLEIWKACFVGLIESPEGT  
EELKWTAFITFLKIPQVLVKLKKYSHGDKDFTEDVNCAFEFLKLTPLLDKADQRCNCDCT  
NFLQCEGKQGLLSEASVNNLMAKRKADREHAPQQKSGENANIQPNILILRAEPTVTNI  
LKTMDADHSKSPEGLLGVLGHMLSGKSLDLLAAAAATGKLKSFARKFINLNEFTTYGSE  
ESTKPASVRALLFDISFLMLCHVAQTYGSEVILSESRTGAEVPFFETWMQTCMPEEGKIL  
NPDHPCFRPDSTKVESLVALLNNSSEMKLVMKWHEACLSISAAILEILNAWENGVLAFE  
SIQKITDNIKGKVCSLAVCAVAWLVAHVRMLGLDEREKSLQIRQLAGPLFSENTLQFYN  
ERVVIMNSILERMCAVDLQQTATQIKFPSTGVDTMPYWNLLPPKRPIKEVLTDFIAKVLE  
KGWVDSRSIHIFDTLLHMGVYWFNNLIKELLKETRKEHTLRAVELLYSIFCLDMQQVT  
LVLLGHILPGLLTDDSSKWHSLMDPPGTALAKLAVWCALSSYSSHKQASTRQKKRHREDI  
EDYISLFLDDVQPSKLMRLSSNEDDANILSSPTDRSMSSSLSASQLHTVNMRDPLNRV  
LANLFLLISSILGSRTAGPHTQFVQWFMEECVDCLEQGGRGSVLQFMPFTTVSELVKVSA  
MSSPKVVLAITDLSLPLGRQVAAKAIAAL

>sp|Q71SY5|MED25\_HUMAN Mediator of RNA polymerase II transcription subunit 25 OS=Homo sapiens GN=MED25 PE=1 SV=2

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGLRKHLYLLPAIEYFNGGPPAETDFGGD  
YGGTQYSLVVFNTVDCAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLST  
ALQLFDDFKKMREQIGQTHRVCLLICNSPPYLLPAVESTTYSGCTTENLVQQIGERGIHF  
SIVSPRKLPALRLLFEKAAPPALLEPLQPPTDVSQDPRHMLVRGLVLPVGGGSAPGPLQ  
SKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG  
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPASQPSLVSTVAPGSGLAPTA  
QPGAPSMAGTVAPGGVSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDAN  
TKLTRSLPCQVYVNHGENLKTEQWPQKLIMQLIPQQLLTTLGPLFRNSRMVQFHFTNKDL  
ESLKGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLYSSKKKIFMGLIPYDQSGFVNGIRQV  
ITNHHQVQQQKLEQQQRGMGGQAPPGLPILEDQARPSQNLQLRPPQPQPQGTVGASG  
ATGQPQPQGTAPPPGAPQGGPPGAASGPPPPGPILRPQNPGANPQLRSLLLNNPPPPQTGV  
PPPQASLHHLQPPGAPALLPPPHQGLGQPQLGPPLLHPPPAQSWPAQLPPRAPLPGQMLL  
SGGPRGPVPQPGLQPSVMEDDILMDLI

>sp|Q96HR3|MED30\_HUMAN Mediator of RNA polymerase II transcription subunit 30 OS=Homo sapiens GN=MED30 PE=1 SV=1

MSTPPLAASGMAPGPFAGPQAQQAAREVNTASLCRIGQETVQDIVYRTMEIFQLLRNMQ  
PNGVTYHTGTYQDRLTKLQDNLRQLSVLFRKLRLVYDKCNENCGMDPIPVEQLIPYVEE  
DGSKNDDRAGPPRFASEERREIAEVNKKLKQKNQQLKQIMDQLRNLIWDINAMLAMRN

>sp|Q8IYB1|M21D2\_HUMAN Protein MB21D2 OS=Homo sapiens GN=MB21D2 PE=1 SV=3

MKMAAPTANKAASLGCNNKPAFPELDFRSGARVEELNKLIQEFTKHDQREYDDQRALEIH  
TAKDFIFSMLGMVQKLDQKLVPANEYLLSGGVREGVVLDLDELNVYARGTDYDMDFTL  
LVPALKLHDRNQPVTLDMRHSALCHSWLSLRLFDEGTISKWKDCCTIVDHINGATNYFFS  
PTKVADWFYDSISIVLSEIQKKPQRGMKVEKVEKNGTIISIILGVGSSRMLYDIVPVVS  
FKGWPAVAQSWLMENHFWDGKITEEEVISGFYLPACSYKGGKDNWRLSFARSEVQLKK  
CISSSLMQAYQACKAIIKLLSRPKAISPYHLRSMMLWACDRLPANYLAQEDYAAHFLLG  
LIDDLQHCLVNKMCPNYFIPQCNMLEHLSEETVMLHARKLSSVRSDDPAEHLRTAIEHVKA  
ANRLTLELQRRGSTSIPSPQSDGGDPNPQDDRLAKKLQQLVTENPGKSISVFINPDDVT  
RPHFRIDDKFF

>sp|Q9UI17|M2GD\_HUMAN Dimethylglycine dehydrogenase, mitochondrial OS=Homo sapiens GN=DMGDH PE=1 SV=2

MLRPGAQLLRGLLLRSCPLQGSPGRPRSVCGREGEEKPPLSAETQWKDRAETVIIGGGCV  
GVSLAYHLAKAGMKDVVLEKSELTAGSTWHAAGLTTYFHPGINLKKIHYDSIKLYEKL  
EETGQVVGFGHPGSIRLATTVPVRVDEFKYQMTRTGWHATEQYLIEPEKIQEMFLLNMNK  
VLAGLYNPGDGHIDPYSLTMALAAGARKCGALLKYPAPVTSLKARSDGTWVETPQGSMR  
ANRIVNAAGFWAREVGKMIGLEHPLIPVQHQQYVVTSTISEVKALKRELPLVRDLEGSYYL  
RQERDGLLFGPYESQEKMKVQDSWVTNGVPPGFGKELFESDLDRIMEHIKAAMEMVPVLK  
KADIINVVNGPITYSPDILPMVGPHQGVARNYVWAIGFGYGIHAGGVGKYLSDWILHGEP  
PFDLIELDPNRYGKWTTTYTEAKARESYGFNNIVGYPKEERFAGRPTQRVSGLYQRLES  
KCSMGFHAGWEQPHWFYKPGQDTQYRPSFRRTNWFEPVGSEYKQVMQRVAVTDLSPFGKF  
NIKGQDSIRLLDHLFANVIPKVGFNISHMLTPKGRVYAEITVSHQSPGEFLLITGSGSE  
LHDLRWIEEEAVKGGYDVEIKNITDELGVLGVAGPQARKVLQKLTSEDLSDDVFKFLQTK  
SLKVSNIPTAIRISYTGELGWELYHRREDSVALYDAIMNAGQEEGIDNFGTYAMNALRL

EKAFAWGLEMNCDTNPLEAGLEYFVKLNKPADFIGKQALKQIKAKGLKRRLVCLTLATD  
DVDPEGNESIWYNGKVVGNTTSGSYSYSIQKSLAFAYVPVQLSEVGQQVEVELLGKNYPA  
VIIQEPLVLTEPTRNRLQKKGKDKT

>sp|Q5J8X5|M4A13\_HUMAN Membrane-spanning 4-domains subfamily A member 13 OS=Homo sapiens  
GN=MS4A13 PE=2 SV=2

MIGIFHIFMWYFLLVLYMGQIKGAFGTYPVTYKTGCTLWGIFFIAGVFLIRVTKYPTR  
SGIISTLIINIICIITTITAVTLTIIELSHFNSVSYRNYGQAKLGREVSRILLFFYGLEF  
SIALTHSIYSCSNLFRRQNDLTSVTEEAESTP

>sp|Q8N5U1|M4A15\_HUMAN Membrane-spanning 4-domains subfamily A member 15 OS=Homo sapiens  
GN=MS4A15 PE=2 SV=2

MSAAPASNGVFVVIPPNNASGLCPPAILPTSMCQPPGIMQFEEPPLGAQTPRATQPPDL  
RPVETFLTGEPKVLGTVQILIGLIHLGFGSVLLMVRRGHVGIFFIEGGVPFWGGACFIIS  
GSLSVAAEKNHTSCLVRSSLGTNILSVMAAFAGTAILLMDFGVTNRDVRGYLAVLTIFT  
VLEFFTAVIAMHFGCQAIHAQASAPVIFLPNAFSADFNIPSPAASAPPAYDNVAYAQQGV

>sp|Q96DS6|M4A6E\_HUMAN Membrane-spanning 4-domains subfamily A member 6E OS=Homo sapiens  
GN=MS4A6E PE=2 SV=1

MTSQPISNETIIMLPNSVINFSQAEKPEPTNQGGDSLKKRLQAKVKVIGVHSSLAGSILS  
ALSALVGFILLSVNPAAALNPASLQCKLDEKDIPTRLLLSYDYHSPYTMCHRAKASLAGT  
LSLMLVSTVLEFCLAVLTAVLQWKQTV

>sp|Q8IWC1|MA7D3\_HUMAN MAP7 domain-containing protein 3 OS=Homo sapiens GN=MAP7D3 PE=1  
SV=2

MMADGAAAGAGGSPSLRELARMVAAANEIAKERRKQDVVNRVATHSSNIRSTFKPVIDG  
SMLKNDIKQRLARERREEKRRQDANKETQLEKERKTKLQYEKQMEERQRKLKERKEKE  
EQRRIAAEEKRHQKDEAQKEKFTAILYRTLERRRLADDYQQKRSWGGSSAMANSESKTAN  
KRSASTEKLEQGTALIRQMPLSSAGLQNSVAKRKTDKERSSSLNRRDSNLHSSTDKEQA  
ERKPRVTGVTNYVMQYVTVPLRKCTSDCLRVMFPMSTMKIPPQTKVEESPLEKVETPPK  
ASVDAPPQVNVEVFCNTSMEASPKAGVGMAPEVSTDSFPVVSVDVSPVSTYDSEMSMDA  
SPELSIEALPKVDLETVPKVSIVASPEASLEAPPEVSLEALPEVSVEAAPEGSLEAPPKG  
SAEVAPKESVKGSPKESMEASPEAMVKASPKTSLEASMEASPKAKARDAPKKSEMDKQAL  
IPIAKKRLSSYTECYKWSSSPENACGLPSPISTNRQIQKNCPPSPLPLISKQSPQTSFPY  
KIMPIQHTLSVQSASSTVKKKKTETVSKTTNRCEALSQRHMIYEESGNKSTAGIMNAEAT  
KILTELRLAREQREKEEEEERQREEMQQRV IKKSKDMAKEAVGGQAEDHLKLKDGQQQNE  
TKKKKGWLDQEDQEAPLQKGDAKIKAQEEADKRKKEHERIMLQNLQERLERKKRIEIMK  
RTRKTDVNASKVTETSSHDIYEEAEADNEESDKDSL NEMFPSAILNGTGSPTKFKMPFNN  
AKKMT HKLVFLEDGTSQVRKEPKTYFNGDLKNFRQKSMKDTSIQEVVSRPSSKRMTSHTT  
KTRKADETNTTSRSSAQT KSEGFHDILPKSSDTFRQ

>sp|Q8N8E1|MAA51\_HUMAN Putative uncharacterized protein encoded by MAPKAPK5-AS1 OS=Homo  
sapiens GN=MAPKAPK5-AS1 PE=5 SV=1

MALMSLSSDILSGAPTAGRGGGCSAALSPRGRGSKGLGTRAPGPRGDGQPPPLGTGGDE  
DPGAGSASAGGSRLAAAAAAEAAAPGDRSLCWAPRGRLASSPAGEAGSWGRARRGGPRP  
GAPCKGLAGPPLRPLARS

>sp|O60336|MABP1\_HUMAN Mitogen-activated protein kinase-binding protein 1 OS=Homo sapiens  
GN=MAPKBP1 PE=1 SV=4

MAVEGSTITSRIKNLLRSPSIKLRRSKAGNRREDLSSKVTLEKVLGITVSGGRGLACDPR

SGLVAYPAGCVVVLNPNRKHKQHHLNSSRKTITALAFSPDGKYLVTGESGHMPAVRVWD  
VAEHSQVAELQEHKYGVACVAFSPSAKYIVSVGYQHDMIVNVWAWKKNIVVASNKVSSRV  
TAVSFSEDCSYFVTAGNRHIKFWYLLDDSKTSKVNATVPLLGRSGLLGELRNNLFTDVACG  
RGKKADSTFCITSSGLLCEFSDRRLLDKWVELRNIDSFTTTVAHCISVSQDYIFCGCADG  
TVRLFNPSNLHFLSTLPRPHALGTDIASVTEASRLFSGVANARYPDTIALTFDPTNQWLS  
CVYNDHSIYVWDVRDPKKVGKVYSALYHSSCVWSVEVYPEVKDSNQACLPPSSFITC SSD  
NTIRLWNTESG VHGSTLHRNILLSSDLIKI IYVDGNTQALLDTELPGGDKADASLLDPRV  
GIRSVCVSPNGQHLASGDRMGTLRVHELQSLSEMLKVEAHDSEILCLEYSKPD TGLKLLA  
SASRDRLIHVLDAGREYSLQQTLD EHSSTITAVKFAASDGQVRMISCGADKSIYFRTAQK  
SGDGVQFTRTHHVVRKTTLYDMDEPSWKYTAIGCQDRNIRIFNISSGKQKLFKGSQGE  
DGTLIKVTDPGSIYIATSCSDKNLSIFDFSSGECVATMFGHSEIVTGMKFSNDCKHLIS  
VSGDSCIFVWRLSSEMTISMRQLAELRQRQGGKQQGPSSPQRASGPNRHQAPSMLSPG  
PALSSSDSKEGEDEGTEELPALPVLAKSTKKALASVPSPALPRSLSHWEMSRAQESVGF  
LDPAPAAPNGPRRRGRWVQPGVELSVRSMLDLRQLET LAPSLQDPSQDSLAIIPSGPRKH  
GQEALETSLTSQNEKPPRPQASQPCSYPHIIRLLSQEEGVFAQDLEPAPIEDGIVYPEPS  
DNPTMDTSEFQVQAPARGTLGRVYPGSRSSSEKHSPDSACSVDYSSSCLSSPEHPTEDSES  
TEPLSVDGISSDLEEPAEGDEEEEEEGMGYPYGLQEGSPQTPDQEQFLKQHFETLASGA  
APGAPVQVPERSESRSISSRFLQVQTRPLREPSSSSSLALMSRPAQVPQASGEQPRGN  
GANPPGAPPEVEPSSGNPSPQQAASVLLPRCRLNPDSSWAPKRVATASPFSGLQKAQSVH  
SLVPQERHEASLQAPSPGALLSREIEAQDGLGSLPPADGRPSRPHSYQNPTTSSMAKISR  
SISVGENLGLVAEPQAHAPIRVSPLSKLALPSRAHLVLDIPKPLPDRPTLAAFSPVTKGR  
APGEAEKPGFPVGLGAHSTTERWACLGE GTPKPRTECQAHPGPSSPCAQQLPVSSLFQ  
GPENLQPPPPEKTPNPMECTKPGAALSQDSEPAVSLEQCEQLVAELRGSVRQAVRLYHSV  
AGCKMPSAEQSRIAQLLRDTFSSVRQELEAVAGAVLSSPGSSPGAVGAEQTQALLEQYSE  
LLRAVERRMERKL

>sp|A1Z1Q3|MACD2\_HUMAN 0-acetyl-ADP-ribose deacetylase MACROD2 OS=Homo sapiens GN=MACROD2  
PE=1 SV=1

MYPNKKKKVWREEKERLLKMTLEERRKEYLRDYIPLNSILSWKEEMKGGQND EENTQE  
TSQVKKSLTEKVS LYRGDITLLEVD AIVNAANASLLGGGGVDGCIHRAAGPCLLAECRNL  
NGCDTGHAKITCGYDLPAKYVIHTVGPIARGHNGSHKEDLANCYKSSLKLVKENNIRSV  
AFPCISTGIYGFPNEPAAVIALNTIKEWLAKNHHEVDRIIFCVFLEVDFKIYKKKMNEFF  
SVDDNNEEEEDVMKEDSDENGPEEKQSVEEMEEQSQDADGVNTVTVPGPASEEAVEDCK  
DEDFAKDENITKGGEVTDHSVRDQDHPDGQENDSTKNEIKIETESQSSYMETEELSSNQE  
DAVIVEQPEVIPLTEDQEEKEGEKAPGEDTPRMPGKSEGSSDLENTPGPDVEMNSQVDKV  
NDPTESQQEDQLIAGAQDEAKEQRNGTK

>sp|Q96M61|MAGBI\_HUMAN Melanoma-associated antigen B18 OS=Homo sapiens GN=MAGEB18 PE=1  
SV=2

MPRGQKSKLRAREKRHQARCENQDLGATQATVAEGESPPAYLLFGDRPQNLPA AETPSI  
PEALQGAPSTTNAIAPVSCSSNEGASSQDEKSLGSSREAE GWKEDPLNKKVVS LVHFLQ  
KYETKEPITKGDMIKFVIRKDKCHFNEILKRASEHMELALGVDLKEVDPIRHYA FF SKL  
DLTYDETTSD EEKIPKTGLLMIALGVIFLNGNRAPEEAVWEIMNMMGVYADRKHFLY GDP  
RKVMTKDLVLQKLEYQQVPNSDP RYEFLWGPRAHAETSKMKVLEFVAKIHDTVPSAFP  
SCYEEALRDEEQRTQARAAARAHTAAMANARSRTTSSSF SHAK

>sp|Q9HAY2|MAGF1\_HUMAN Melanoma-associated antigen F1 OS=Homo sapiens GN=MAGEF1 PE=1 SV=2

MLQTPESRGLPVPQAEGEKDGGHGDETAPTASQERPKEELGAGREEGAAEPALTRKGAR  
ALAAKALARRRAYRRLNRTVAELVQFLLVKDKKKSPITRSEMVKYVIGDLKILFPDIAR  
AAEHLRYVFGFELKQFDRKHHTYILINKKPLEEEEEEDLGGDGPRLGLLMMILGLIYMR  
GNSAREAQVWEMLRRLGVQPSKYHFLFGYPKRLIMEDFVQQRYSYRRVPHTNPPEYEF  
WGPRSNLEISKMEVLGFVAKLHKKEPQHWPVQYREALADEADRARAKARAEASMRARASA  
RAGIHLW

>sp|Q92585|MAML1\_HUMAN Mastermind-like protein 1 OS=Homo sapiens GN=MAML1 PE=1 SV=3

MVLPTCPMAEFALPRHSVMERLRRRIELCRRHHSTCEARYEAVSPERLELERQHTFALH  
QRCIQAKAKRAGKHRQPPAATAPAPAAPAPRLDAADGPEHGRPATHLHDTVKNLDSATS  
PQNGDQQNGYGDLFPGHKTRREAPLGVAISSNGLPPASPLGQSDKPSGADALQSSGKHS  
LGLDSLNNKRLADSSLHLNGGSPSESFPLSLNKKELKQEPVEDLPCMITGTGVSISQSNL  
MPDLNLNEQEWKELIEELNRSVPDEDMKDLFNEDFEEKDPESGSGSATQTPLAQDINIKT  
EFSPAAFEQEQLGSPQVRAGSAGQTFLGPSSAPVSTDSPSLGGSQTLFHTSGQPRADNPS  
PNLMPASAAQNAQALAGVVLPSQGPGGASELSSAHLQQAIAAKQKREQMLQNPQQATP  
APAPGQMSTWQQTGPHSSLDVPYPMEKPASPSSYKQDFTNSKLLMMPSVNKSPPRGGP  
YLQPSHVNLSSHQPPSNLNQNSANNQGSVLDYGNTKPLSHYKADCGGSPGSGQSKPALM  
AYLPQQLSHISHEQNSLFLMKPKPGNMPFRSLVPPGQEQNPSSVPVQAQATSVGTQPPAV  
SVASSHNSSPYLSSQQQAAMVKQHQLLLDQQKQREQQQKHLQQQQFLQRQQHLLAEQEKQ  
QFQRHLTRPPPQYQDPTQGSFPQQVGQFTGSSAAVPGMNTLGPSNSSCPRVFPQAGNLM  
MGPGHASVSSLPTNSGQQDRGVAQFPGSQNMPQSSLYGMASGITQIVAQPPPQATNGHAH  
IPRQTNVGNQTSVSAAYGQNSLGSSGLSQHNKGTLPGLTKPPVPRVSPAMGGQNSSWQ  
HQGMPNLSGQTPGNSNVSPFTAASSFHMQQQAHLKMSSPQFSQAVPNRPMAPMSSAAAVG  
SLLPPVSAQQRTSAPAPAPPPTAPQQGLPGLSPAGPELGAFSQSPASQMGGGRAGLHCTQA  
YPVRTAGQELPFAYSGQPGGGLSSVAGHTDLIDSLLKNRTSEEWMSDLDDLGSQ

>sp|P27816|MAP4\_HUMAN Microtubule-associated protein 4 OS=Homo sapiens GN=MAP4 PE=1 SV=3

MADLSLADALTEPSDIEGEIKRDFIATLEAEAFDDVVGETVGTDTYIPLLDVDEKTGNS  
ESKKKPCSETSQIEDTPSSKPTLLANGGHGVEGSDTTGSPTEFLEEKMAYQEYPNSQNW  
EDTNFCFQPEQVVDPIQTDPFKMYHDDDLADLVFPSSATADTSIFAGQNDPLKDSYGMSP  
CNTAVVPQGSVEALNSPHSESVSPEAVAEPPTAVPLELAKEIEMASEERPPAQA  
LEIMMGLKTTDMAPSKETEMALAKDMALATKTEVALAKDMESPTKLDVTLAKDMQPSMESDM  
ALVKDMELPTEKEVALVKDVRWPTETDVSSAKNVVLPTETEVAPAKDVTLLKETERASPI  
KMDLAPSKDMGPPKENKKETERASPIKMDLAPSKDMGPPKENKIVPAKDLVLLSEIEVAQ  
ANDIISSTEISSAEKVALSSETEVALARDMTLPETNVILTKDKALPLEAEVAPVKDMAQ  
LPETEIAPAKDVAPSTVKEVGLLKDMSPLESETEMALGKDVTPPPETEVVLIKNVCLPP  
EMEVALTEDQVPALKTEAPLAKDGVLTANNVTPAKDVPPLSETEATVPVVKDMEIAQTQKG  
ISEDHLESLQDVGQSAAPTTFMISPETVTGTGKKCSLPAEEDSVLEKLGKPCNSQPSE  
LSSETSGIARPEEGRPVVSGTGNDITTPPNKELPPSPEKKTKPLATTQPAKTSTSKAKTQ  
PTSLPKQAPPTTIGGLNKKPMSLASGLVPAAPPKRPASARPSILPSKDVKPKPIADAK  
APEKRASPSKPASAPASRSGSKSTQTVAKTTTAAAVASTGPSSRSPSTLLPKKPTAIKTE  
GKPAEVKKMTAKSVPADLSRPKSTSTSSMKKTTTSGTAPAAGVVPSRVKATPMPSRPST  
TPFIDKKPTSAPKPSSTTPRLSRLATNTSAPDLKNVRSKVGSTENIKHQPGGGRAKVEKKT  
EAAATTRKPESNAVTKTAGPIASAKQKQAGKVQIVSKKVSYSHIQSKCGSKDNIKHVP  
GGGNVQIQNKQVDISKVSSKCGSKANIKHKPGGGDVKIESQKLNFKKAQAKVGS  
LDNVGHL  
PAGGAVKTEGGGSEAPLCPGPPAGEEPAISEAAPEAGAPTSASGLNGHPTLSGGGDQREA

QTLDSQIQETSI

>sp|Q16655|MARI\_HUMAN Melanoma antigen recognized by T-cells 1 OS=Homo sapiens GN=MLANA  
PE=1 SV=1

MPREDAHFIIYGYPKKGHGSYTTAEAAAGIGILTVILGVLLIGCWYCRRRNGYRALMDK  
SLHVGTCALTRRCPQEGFDHRDSKVSLEKNCEPVVPNAPPAYEKLSAEQSPPPYSP

>sp|Q8TCQ1|MARI\_HUMAN E3 ubiquitin-protein ligase MARCH1 OS=Homo sapiens GN=MARCH1 PE=1  
SV=1

MLGWCEAIARNPHRIPNNTRTPEISGDLADASQTSTLNEKSPGRSASRSSNISKASSPTT  
GTAPRSQSRLSVCPTSDICRICHEGDEESPLITPCRCTGTLRFVHQSLHQWIKSSDT  
RCCELCKYDFIMETKLKPLRKWEKLQMTTSERRKIFCSVTFHVIAITCVVWSLYVLIDRT  
AEEIKQGNDNGVLEWPFWTKLVVAIGFTGGLVFMVYVQCKVYVQLWRRLLKAYNRVIFVQN  
CPDTAKKLEKNFSCNVNTDIKDAVVVPVPQTGANSLPSAEGGPPEVSV

>sp|Q8NA82|MARI\_HUMAN Probable E3 ubiquitin-protein ligase MARCH10 OS=Homo sapiens  
GN=MARCH10 PE=1 SV=3

MLHDARDRQKFFSDVQYLQDMQHKVDSEYQACLRREQEYRRDPNEKKRDQFWGQETSFERS  
RFSSRSSSKQSSSEEDALTEPRSSIKISAFKCDKLPIDQTSVKQKHKSTMTVRKAEKV  
DPSESPADQAPMVLRLKRKPNLRRFTVSPESHSPRASGDRSRQKQWPAPKVPVPRGADQ  
VVQEQGLMCNTKLKRPNQERRNLVPSSQPMTENAPDRAKKGDPSAPSQSELHPALSQAFQ  
GKNSPQVLSEFSGPPLTPTTVGGPRKASFRFRDEDFYSILSLNSRRESDDTEEETQSEEC  
LWVGVRSPCSPSHHKRSRFGGTSTPQAKNKNFEENAENCRGHSSRRSEPSHGSLRISNAM  
EPATERPSAGQLSQDPGLPDRESATEKDRGGSNAKKSPLSWDTKSEPRQEVGVNAENV  
WSDCISVEHRPGTHDSEGYWKDYLNSSQNSLDYFISGRPISPRSSVNSSYNPPASFMHSA  
LRDDIPVDLSMSSTSVHSSDSENGSGFHVCPQLSPIRNRTPFASAENHNYFPVNSAHEFA  
VREAEDTTLTSQPQGAPLYTDLLLNPQGNLSLVDSSSSPSRMNSEGHLHVSGSLQENTP  
FTFFAVSHFPNQNDNGSRMAASGFTDEKETSKIKADPEKLKQLQESLLEEDSEEGDLCR  
ICQIAGGSPSNPLLEPCGCVGSLQFVHQECLKKWLKVKITSGADLGAVKTCMCKQGGLLV  
DLGDFNMIEFYQKHQSSQAQNELMNSGLYLVLHLHLYEQRFAELMRLNHNQVERERLSRN  
YPQPRTEENENSELGDGNEGSISQSQVV

>sp|Q9POL2|MARK1\_HUMAN Serine/threonine-protein kinase MARK1 OS=Homo sapiens GN=MARK1  
PE=1 SV=2

MSARTPLPTVNERDTENHTSVDGYTEPHIQPTKSSSRQNIPRCRNSITSATDEQPHIGNY  
RLQKTIGKGNFAVKLARHVLTGREAVKIIDKTQLNPTSLQKLFREVRIMKILNHPNIV  
KLFEVIEKTLYLMEYASGGEVFDYLVAGRMKEKEARAKFRQIVSAVQYCHQKYIVH  
RDLKAENLLLDGDMNIKIADFGFSNEFTVGKLDFTCGSPPYAAPQLFQGGKYDGPEDV  
WSLGVILYTLVSGSLPFDGQNLKELRERVLRGKYRIPFYMSTDCENLLKLLVLNPIKRG  
SLEQIMKDRWMNVGHEEEELKPYTEPDPDFNDTKRIDIMVTMGFARDEINDALINQKYDE  
VMATYILLGRKPPEFEGGESLSSGNLCQRSRPSSDLNNSLQSPAHLKVQRSISANQKQR  
RFSDHAGPSIPPAVSYTKRPQANSVESEQKEEWDKDVARKLGSTTVGSKSEMTASPLVGP  
ERKKSSTIPSNVYSGSMARRNTYVCERTTDYVALQNGKSSSTEMSVSSISSAGSSV  
ASAVPSARPRHQSMSTSGHPKIVTLPTIKDGSEAYRPGTTQRPVPAASPSAHSISTATPD  
RTRFPRGSSSRSTFHGEQLRERRSVAYNGPPASPSHETGAFAHARRGTSTGIISKITSKF  
VRRDPSEGEASGRDTSRSTSGEPKERDKEEGKDSKPRSLRFTWSMKTSSMDPNMMRE  
IRKVLNANCDYEQKERFLLFCVHGDAQDSLQWEMEVCCLPRLSLNGVRFKRISGTSI  
AFKNIASKIANELKL

>sp|P35410|MAS1L\_HUMAN Mas-related G-protein coupled receptor MRG OS=Homo sapiens  
GN=MAS1L PE=2 SV=1

MVWGKICWFSQRAGWTVFAESQISLSCSLCLHSGDQEAQNPNLVSQLCGVFLQNETNETI  
HMQMMAVGQQALPLNIAPKAVLVSLCGVLLNGTVFWLLCCGATNPYMYILHLVAADV  
IYLCCSAVGFLQVTLLTYHGVVFFIPDFLAILSPFSFEVCLCLLVAISTERCVCVLFPIW  
YRCHRPKYTSNVVCTLIWGLPFCINIVKSLFLTYWKHVKACVIFLKL SGLFHAILSLVMC  
VSSLTLLIRFLCCSQQKATRVYAVVQISAPMFLWALPLSVAPLITDFKMFVTTSYLIS  
LFLIINSSANPIIYFFVGS LRKKRLKESLRVILQRALADKPEVGRNKAAGIDPMEQPHS  
TQHVENLLPREHRVDVET

>sp|Q9Y2H9|MAST1\_HUMAN Microtubule-associated serine/threonine-protein kinase 1 OS=Homo  
sapiens GN=MAST1 PE=1 SV=2

MSDSLWTALSNFMSFPGGSMFRRTKSCRTSNRKSLILTSTPTLPRPHSPLPGHLGSS  
PLDSPRNFSNPNTPAHFSFASSRRADGRRWSLASLPSSGYGTNTPSSTVSSSCSSQERLHQ  
LPYQPTVDELHFLSKHFGSTESITDEDGRRSPAVRPRSRLSPGRSPSSYDNEIVMMNH  
VYKERFPKATAQMEELRDFTRAYEPDSVLPLADGVLSFIHHQIIELARDCLTKSRDGLI  
TTVYFYELQENLEKLLQDAYERSESLEVAFTQLVKLLIIISRPARLLECLEFNPEEFY  
HLLAAEGHAKGHLVKTDIPRYIIRQLGLTRDPFPDVHLEEQDSGGSNTPEQDDLSEG  
RSSKAKKPPGENDFDITKLISNGAYGAVYLVRHRDTRQRFAMKKINKQNLILRNQIQQAF  
VERDILTFAENPFVGMFCSEFETRRHLCMVMEYVEGGDCATLLKNIGALPVEMARMYFAE  
TVLALEYLHNYGIVHRDLKPDNLLITSMGHIKLTDFGLSKMGLMSLTNLYEGHIEKDAR  
EFLDKQVCGTPEYIAPEVILRQGYGKPVDDWWAMGIILYEFVLCVPFFGDTPEELFGQVI  
SDDILWPEGDEALPTEAQLLISLLQTNPLVRLGAGGAFEVKQHSFFRDLDTGLLRQKA  
EFIPHLESEDDTSYFDTRSDRYHHVNSYDEDDTTEEEPVEIRQFSSCSPRFSKVYSSMEQ  
LSQHEPKTPVAAAGSSKREPSTKGPEEKVAGKREGLGGLTLREKTWRGGSPEIKRFSASE  
ASFLEGEASPLGARRRFSALLEPSRFSAPQEDEDEARLRPPRPSSDPAGSLDARAPKE  
ETQEGETSSAGDSEATDRPRPGDLCPPSKDGDASGPRATNDLVLRARHQMQSGDVAVEK  
RPSRTGGKVIKSASATALSVMIPAVDPHGSSPLASPMSPRSLSSNPSSRDSSPSRDYSPA  
VSGLRSPITIQRSGKKYGFTLRAIRVYMGDTDVYSVHHIIVHVEEGGPAQEAGLCAGDLI  
THVNGEPVHGMVHPEVVVELILKSGNKVAVTTTPFENTSIRIGPARRSSYKAKMARNKRP  
SAKEGQESKKRSSLFRKITKQSNLLHTSRSLSSLNRSLSSSDSLPGSPHGLPARSPH  
YRSTPDSAYLGASSQSSSPASSTPNPASSASHHIRPSTLHGLSPKLHRQYRSARCKSAG  
NIPLSPLAHTPSPTQASPPPLPGHTVGSSHTTQSFPKHLHSSPPVVRPRPKSAEPPRSPL  
LKRVQSAEKLGLASLSADKKGALRKHSLEVGHDPFRKDFHGELALHSLAESDGETPPVEGL  
GAPRQVAVRRLGRQESPLSLGADPLLPEGASRPVSSKEKESPGGAEACTPPRATTPGGR  
TLERDVGCTRHSQVQTEDGTGGMARAVAKAALSPVQEHETGRRSSSGEAGTPLVPIVVEP  
ARPGAKAVVPQPLGADSKGLQEPAPLAPSVPEAPRGRERWVLEVVEERTTSLGPRSKPAS  
PKLSPEPQTPSLAPAKCSAPSSAVTPVPASLLGSGTKPQVGLTSRCPAEAVPPAGLTKK  
GVSSPAPPGP

>sp|P56270|MAZ\_HUMAN Myc-associated zinc finger protein OS=Homo sapiens GN=MAZ PE=1 SV=1

MFPVPFCTLLAPPFPVLGLDSRGVGLMNSFPPPQGHANPLQVGAELQSRFFASQGCAQ  
SPFQAAPAPPPTPQAPAAEPLQVDLLPVLAAAQESAAAAAAAAAAAAVAAAPPAPAAAS  
TVDTAALKQPPAPPPPPPVSAPEAAAPPASAATIAAAAAATAVVAPTSTVAVAPVASAL  
EKKTKSKGPYICALCAKEFKNGYNLRRHEAIIHTGAKAGRVPSGAMKMPTMVPLSLLSVPQ  
LSGAGGGGGEAGAGGGAAVAAGGVVTTTASGKRIRKNHACEMCGKAFRDVYHLNRHKLS

HSDEKPYQCPVCQQRFRKDRMSYHVRSHDGAHVHPYNCSHCGKSFSRPDHLNSHVRQVH  
STERPFKCEKCEAAAFATKDRDLRAHTVRHEEKVPCHVCGKMLSSAYISDHMKVHSQGPHHV  
CELCNKGTGEVCPMAAAAAAAAAAAAAAAPPATVAGSLSGAEGVPVSSQPLPSQPW

>sp|Q9H7P6|MB12B\_HUMAN Multivesicular body subunit 12B OS=Homo sapiens GN=MVB12B PE=1  
SV=2

MRSCFCVRRSRDPPPPQPPPPPPQGRGTDQSTMPEVKDLSEALPETSMDPITGVGVVASRN  
RAPTYGVDVVAQTADGVDADLWKDGLFKSKVTRYLCFTRSFSEKSHLGNVLVDMKLIDIK  
DTLPVGFIPQIETVDTQEVAFRKKRLCIKFIIPRDSTEAAICDIRIMGRKQAPPQYTFIG  
ELNSMGIWYRMGRVPRNHDSSQPTPSQSSAASPAPNLRHISLTLPATFRGRNSTRTD  
YEYQHSNLYAISAMDGVPFMISEKFCVPESMQPFDLLGITIKSLAEIEKEYEYSFRTEQ  
SAAARLPPSPTRCQIPQS

>sp|Q8N8X9|MB213\_HUMAN Protein mab-21-like 3 OS=Homo sapiens GN=MAB21L3 PE=1 SV=2

MKYLTVGDLEDCLLNKVDLRRQQISQAVEEVQKVVHHLTTNISNQDIRFQAVPYSDTYNE  
NIKVLAPSQFLVTPIKGLAGYREAREQHWRYTYLQGTRLPCPLRDEGLQQWLEVEQFM  
KSLWQWHETDVNIDGDIVPAKVLVFRKLVENAVRTCHLSGKVSLLGNRSVWVAVETSA  
YQVELELVPVEIPTTWSKKARWPRLQRWPSQERVEIKSFQFNLLACSNYHWQLSFLR  
AEQVLLEQLDEDGGCRRKCFQVMRHLKEDIWCPGNRPVITSHHLQTVLFWTCEKYPHFKD  
WQVFSKAFLRLVRKLHKCVSQHFLKHYFVRNSNLFQCTNPTELDTVAQKLATFLKNPQIG  
PP

>sp|Q8NHZ7|MB3L2\_HUMAN Methyl-CpG-binding domain protein 3-like 2 OS=Homo sapiens  
GN=MBD3L2 PE=2 SV=3

MGEPAFTSFSPSLPVLGKLKRNMPWALQKKREIHMAKAHRRRAARSALPMRLTSCIFRRP  
VTRIRSHPDNQVRRRKGDEHLEKPPQLCAYRRLQALQPCSSQEGSSPLHLESVLSILAP  
GTAGESLDRAGAERVRSPLPTGRFPVAVAGGPTPGMGCQLPPPLSGQLVTPADIRRRQAR  
RVKKARERLAKALQADRLARRAEMLTGG

>sp|A6NDZ8|MB3L4\_HUMAN Putative methyl-CpG-binding domain protein 3-like 4 OS=Homo  
sapiens GN=MBD3L4 PE=5 SV=1

MGEPAFTSFSPSPVLGKLKRNMPWALQKKREIHMAKAHRRRAARSALPMRLTSCIFRRP  
VTRIRSHPDNQVRRRKGDEHLEKPPQLCAYRRLQALQPCSSQEGSSPLHLESVLSILAP  
GTAGESLDRAGAERVRIPLPTGRFPVAVAGGPTPGMGCQLPPPLSGQLVTPADIRRRQAR  
RVKKARERLAKALQADRLARQAEMLTGR

>sp|O95243|MBD4\_HUMAN Methyl-CpG-binding domain protein 4 OS=Homo sapiens GN=MBD4 PE=1  
SV=1

MGTTGLESLSLGDGAAPTVTSSERLVPDPPNDLRKEDVAMELERVGEDEEQMMIKRSSE  
CNPLLQEP IASAFGATAGTECRKSVPCGWERVVKQRLFGKTAGRFDVYFISPPQLKFRS  
KSSLANYLHKNGETSLKPEDFDFTVLSKRGIKSRYKDCSMAALTSHLQNSNNSNWNLR  
RSKCKKDVFMPSSSSSELQESRGLSNFTSTHLLKKEDEGVDDVNFVRKVRKPKGKVTILKG  
IPIKTKKGCRCSCSGFVQSDSKRESVCNKADAESPEVAQKSQLDRTVCISDAGACGETL  
SVTSEENSLVKKKERSLSSGSNFCSEQKTSGLINKFCSAKDSEHNEKYEDTFLESEEIGT  
KVEVVERKEHLHTDILKRGSEMDNNSPTRKDFTEKIFQEDTIPRTQIERRKTSLYFSS  
KYNKEALSPRRKAFKKWTPRSPFNLVQETLFHDPWKLLIATIFLNRTSGKMAIPVLWK  
FLEKYPSAEVARTADWRDVSELLKPLGLYDLRAKTIVKFSDEYLTQWKYPIELHGIGKY  
GNDSYRIFCVNEWKQVHPEDHKLNKYHDWLWENHEKLSLS

>sp|Q9NR56|MBNL1\_HUMAN Muscleblind-like protein 1 OS=Homo sapiens GN=MBNL1 PE=1 SV=2



MAVSVTPIRDTKWLTLEVCREVFQRGTCSRPDTECKFAHPSKSCQVENGRVIACFDSLKGR  
CSRENCKYLHPPPHLKTQLEINGRNLIQQKNMAMLAQQMQLANAMMPGAPLQPVPMFSV  
APSLATNASAAAFNPYLGPVSPSLVPAEILPTAPMLVTGNPGVPVPAAAAAAAQKLMRTD  
RLEVCREYQRGNCNRGENDCRFAHPADSTMIDTNDNTVTVCMYIKGRCSREKCKYFHP  
AHLQAKIKAAQYQVNQAAAAQAAATAAAMTQSAVKSLKRPLEATFDLGIPQAVLPPLPKR  
PALEKTNGATAVNTGIFQYQQALANMQLQQHTAFLPPVPMVHGATPATVSAATTSATSV  
PFAATATANQIPIISAHLTSHKYVTQM

>sp|043324|MCA3\_HUMAN Eukaryotic translation elongation factor 1 epsilon-1 OS=Homo sapiens GN=EEF1E1 PE=1 SV=1

MAAAEELSLEKSLGLSKGNKYSAQGERQIPVLQTNGPSLTGLTTIAHLVKQANKEYL  
LGSTAEKAIVQQWLEYRVTQVDGHSSKNDIHTLLKDLNSYLEDKVYLTGYNFTLADILL  
YYGLHRFIVDLTVQEKEKYLNSRWFCCHIHPGIRQHLSSVVFIKNRLYTNSH

>sp|Q8IX19|MCEM1\_HUMAN Mast cell-expressed membrane protein 1 OS=Homo sapiens GN=MCEM1 PE=1 SV=1

MEVEEIIYKHQEVKMQAPAFRDKKQGVSAKNQGAHDPDYENITLAFKNQDHAKGGHSRPTS  
QVPAQCRPPSDSTQVPCWLYRAILSLYILLALAFVLCIILSAFIMVKNAEMSKELLGFKR  
ELWNVSNSVQACEERQKRGWDSVQQSITMVRSKIDRLETTLAGIKNIDTKVQKILEVLQK  
MPQSSPQ

>sp|D6RGH6|MCIN\_HUMAN Multicilin OS=Homo sapiens GN=MCIDAS PE=1 SV=1

MQACGGGAAGRRAFDSICPNRMLALPGRALLCKPGKPERKFAPPRKFFPGCTGGSPVSVY  
EDPPDAEPTALPALTIDQLDLADCSLLGSDAPPGDLAASQNHSHQTEADFNLDQDFRD  
TVDDLISDSSSMSTLASGDFPFSPCDISPFGPCLSPLDPRALQSPPLRPPDVPPPEQ  
YWKEVADQNQRALGDALVENNLHVTLTQKQEEIASLKERNVQLKELASRTRHLASVLDK  
LMITQSRDCGAAAEFLLKAKAKRSLEELVSAAGQDCAEVDAILREISERCDEALQSRDP  
KRPRLLPEPANTDTRPGNLHGAFRGLRTDCSRSALNLSHSELEEGGSFSTRIRSHSTIRT  
LAFPQGNFTIRTANGGYKFRWVPS

>sp|Q07820|MCL1\_HUMAN Induced myeloid leukemia cell differentiation protein Mcl-1 OS=Homo sapiens GN=MCL1 PE=1 SV=3

MFGLKRNAVIGLNLVYCGAGLGAGSGGATRPGGRLLATEKEASARREIGGGEAGAVIGGS  
AGASPPSTLTPDSRRVARPPPIGAEVPDVTATPARLLFFAPTRRAAPLEEMEAPAADAIM  
SPEEELDGYEPEPLGKRAVLPLLELVGESGNNTSTDGSLPSTPPPAEEEEDELYRQSLE  
IISRYLREQATGAKDTKPMGRSGATSRKALETLRRVGDGVQRNHETAFQGMLRKLDIKNE  
DDVKSLSRVMIHVFSDGVTNWGRIVTLISFGAFVAKHLKTINQESCIEPLAESITDVLVR  
TKRDWLKQKRGWDGFVEFFHVEDLEGGIRNVLLAFAGVAGVGAGLAYLIR

>sp|P33992|MCM5\_HUMAN DNA replication licensing factor MCM5 OS=Homo sapiens GN=MCM5 PE=1 SV=5

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELK  
RHYNLGEYWIEVEMEDLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEV  
LQDIQVMLKSDASPSIRSLSKSDMMSHLVKIPGIIAASAVRAKATRISIQCRSCRNTLT  
NIAMRPGLEGYALPRKCNTDQAGRPKCLDPYFIMPDKCKCVDFQTLKLQELPDVPHGE  
MPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ  
VTDGSGRSFAGAVSPQEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIAACLLFGG  
SRKRLPDGLTRRGDINLLMLDGPGTAKSQLKFVEKCSPIGVYTSKGSSAAGLTASVMR  
DPSSRNFIEMGGAMVLADGGVVCIDFDMKREDDRVAIHEAMEQQTISIAGAGITTLS

RCSVLAAANSVFGRWDETKGEDNIDFMPITILSRFDMIFIVKDEHNEERDVMLAKHVITLH  
VSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS  
DRRSSIPITVRQLEAIVRIAELSKMKLQPFATEADVEEALRLFQVSTLDAALSGTLSGV  
EGFTSQEDQEMLSRIEKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAIIHKVLQLMLRRGE  
IQHRMQRKVLYRLK

>sp|Q14676|MDC1\_HUMAN Mediator of DNA damage checkpoint protein 1 OS=Homo sapiens GN=MDC1  
PE=1 SV=3

MEDTQAIDWDVEEEEETEQSSESLRCNVEPVGRLHIFSGAHGPEKDFPLHLGKNVVGMP  
DCSVALPFPSISKQHAIEIEILAWDKAPILRDCGSLNGTQILRPPKVLSPGVSHRLRDQEL  
ILFADLLCQYHRLDVSLPFVSRGPLTVEETPRVQGETQPQRLLLAEDSEEEVDLSERRM  
VKSRTTSSSVIVPESDEEGHSPVLGGLGPPFAFNLSDDTVEEGQQPATEEASSAARRG  
ATVEAKQSEAEVTEIQLEKDQPLVKERDNDTKVKGAGNGVVPAGVILERSQPPGEDSD  
TDVDDDSRPPGRPAEVLHERAQPFGFIDSDTDAEEERIPATPVVIPMKKRKIFHGVGTRG  
PGAPGLAHLQESQAGSDTDVEEGKAPQAVPLEKSQASMVINSDDDEEEVSAALTLAHLK  
ESQPAIWNRAEEDMPQRVLLQRSQTTTERDSDTDVEEEELPVENREAVLKDHTKIRAL  
VRAHSEKDQPPFGSDSDSVEADKSSPGIHLERSQASTTVDINTQVEKEVPPGSAIIHIKK  
HQVSVEGTNQTDVKAVGGAAPKLLVVSLEEAWPLHGDCEADAEETSLTASVVADVRSKL  
PAEGDAGAEWAAVLKQERAHEVGAQGGPPVAQVEQDLPISENLTDLVVDLTLGESTQ  
PQREGAQVPTGREREQHVGGTKDSEDNYGSEDLDLQATQCFLNQGLEAVQSMEDPTQ  
AFMLTPPQELGPSHCSFQTGTLDPEWEVLATQPFCLRESEDSETQPFDTLHLEAYGPCLS  
PPRAIPGDQHPESPVHTEPMGIQGRGRQTVDKVMGIPKETAERVGPGRGLERETEKLLP  
ERQTDVTGEEELTKGKQDREQQLLARDTQRQESDKNGESASPERDRESLKVEIETSEEI  
QEKQVQKQTLPSKAFFEREVERPVANRECDPAELEEKVPKILERDTQRGEPEGGSQDQKG  
QASSPTPEPGVGAGDLPPTSAPVPSGSQSGGRGSPVSPRRHQKGLLNCKMPPEAKASRI  
RAAEKVSRGDQESPDACLPTVPEAPAPPQKPLNSQSQKHLAPPLSPLLPSIKPTVRK  
TRQDGSQEAPEAPLSSELEPFHPKPKIRTRKSSRMTFPFATSAPEPHPSTSTAQPVTPK  
PTSQATRSRTNRSSVKTPEPVVPTAPELQPSTSTDQPVTSEPTSQVTRGRKSRSSVKTPE  
TVVPTALELQPSTSTDPRVTSEPTSQATRGRKNRSSVKTPEPVVPTAPELQPSTSTDQPV  
TSEPTYQATRGRKNRSSVKTPEPVVPTAPELRPSTSTDPRVTPKPTSRTTRSRNMSSVK  
TPETVVPTAPELQISTSTDQPVTTPKPTSRTTRSRNMSSVKNPESTVPIAPELPPSTSTE  
QPVTPEPTSRATRGRKNRSSGKTPETLVPTAPKLEPSTSTDQPVTPEPTSQATRGRNRS  
SVKTPETVVPTAPELQPSTSTDQPVTPEPTSQATRGRTRDSSVKTPEVVPTAPELQASA  
STDQPVTSEPTSRTTRGRKNRSSVKTPEVVPAPELQPSTSTDQPVTPEPTSRATRGR  
NRSSVKTPEIVPIAPELQPSTSRNQLVTPEPTSRATRCRTNRSSVKTPEPVVPTAPEPH  
PTTSTDQPVTPKLTSRATRRKTNRSSVKTPEPVPAASDLEPFTPTDQSVTPEAIAQGGQ  
SKTLRSSTVRAMPVPTTPEFQSPVTTDQPISEPIITQPSCIQRQAAGNPGSLAAPIDHK  
PCSAPLEPKSQASRNQRWGAVRAAESLTAIPEPASPQLLETPIHASQIQKVEPAGRSRFT  
PELQPKASQSRKSLATMDSPPHKQKQQRGEVSQKTVIIKEEEEDTAEKPGKEEDVTPK  
PGKRKRDAQEEEPNRIPSRSLRRTKLNQESTAPKVLFTGVVDARGERAVLALGGLAGSA  
AEASHLVTDRIIRTVKFLCALGRGIPILSLDWLHQRKAGFFLPPDEYVVDPEQEKNF  
FSLQDALSRARERRLLEGYIYVTPGVQPPPPQMGEIISCCGGTYLPSMPRSYKQQRVVI  
TCPQDFPHCSIPLRVGLPLLSPEFLLTGVLKQEAKEAFVLSPLEMSST

>sp|Q1L5Z9|LONF2\_HUMAN LON peptidase N-terminal domain and RING finger protein 2 OS=Homo  
sapiens GN=LONRF2 PE=2 SV=3

MSPEPVPPPPPPQCPGCDRAEPIAQRLEEGDEAFRAGDYEMAAELFRSMLAGLAQPDRGL  
CLRLGDALARAGRLPEALGAFRGAARLGALRPEELEELAGGLVRAVGLRDRPLSAENPGG  
EPEAPGEGGPAPEPRAPRDLLGCPRCRRLHHPVTLPCGLTVCKRCVEPGPARPQVRRVN  
VVLSGLLEKCFPAECRLRRLAGQARSLLQRQQQPEAALLRCDQALELAPDDNSLLLLRAEL  
YLTMKNYEQALQDASAACQNEPLLIKGHQVKAQALSGLGRSKEVLKEFLYCLALNPECNS  
VKKEAQKVMCEVLFSATANVHENLTSSIQSRLKAQGHSHMNAQALLEEGDAGSSENSSEK  
SDMLGNTNSSVLYFILGLHFEEDKKALESILPTAPSAGLKRQFPDDVEDAPDLNAPGKIP  
KKDLSLQRSPNSETEESQGLSLDVTDFECALCMRLLFEPVTPCGHTFCLKCLERCLDHA  
PHCPLCKDKLSELLASRNFNITVLAEELEIFRYLPDELSDRKRIYDEEMSELSNLTRDVPI  
FVCAMAFPTVPCPLHVFEPYRLMIRRCMETGTRKFRGMCLSAEHAGLSEYGCMLEIKDVR  
TFPDGSSVDAIGISRFRVLSHRHRDGYNTADIEYLEDEKVEGPEYEELAALHDSVHQQS  
VSWFASLQDRMKEQILSHFGVMPDREPEPQSNPSGPAWSWWILAVLPLERKAQLAILGMT  
SLKERLLAIRRILVIITRKMNSRQELANARERN

>sp|P18054|LOX12\_HUMAN Arachidonate 12-lipoxygenase, 12S-type OS=Homo sapiens GN=ALOX12  
PE=1 SV=4

MGRYRIRVATGAWLFSGSYNRVQLWLVGTRGEAELELQLRPARGEEEEFDHDVAEDLGLL  
QFVRLRKHHWLVDDAWFCDRITVQGPACAEVAFPCYRWVQGEDILSLPEGTARLPGDNA  
LDMFQKHREKELKDRQQIYCWATWKEGLPLTIAADRKDDLPPNMRFHEEKRLDFEWTLKA  
GALEMALKRVYTLSSWNCLEDFDQIFWGQKSALAEKVRQCWQDELFSYQFLNGANPML  
LRRSTSLPSRLVLPSCMEELQAQLEKELQNGSLFEADFILLDGIPANVIRGEKQYLAAPL  
VMLKMEPNGKLQPMVIQIQPPNPSSPTPTLFLPSDPPLAWLLAKSWVRNSDFQLHEIQYH  
LLNTHLVAEVIIVATMRCLPGLHPIFKFLIPHIRYTMEINTRARTQLISDGGIFDKAVST  
GGGGHVQLLRRAAAQTYCSLCPDDLADRGLLGLPGALYAHDALRLWEIARYVEGIVH  
LFYQRDDIVKGPDELQAWCREITEVGLCQAQDRGFVFSQSLSQLCHFLTMCVFTCTAQH  
AAINQGQLDWYAWVPNAPCTMRMPPTTKEDVTMATVMGSLPDVRQACLQMAISWHLSSR  
QPDMPVPLGHHKEKYFSGPKPKAVLNQFRTDLEKLEKEITARNEQLDWPYEYLPSCIENS  
VTI

>sp|P09917|LOX5\_HUMAN Arachidonate 5-lipoxygenase OS=Homo sapiens GN=ALOX5 PE=1 SV=2

MPSYTVTVATGSQWVAGTDDYIYLSLVGSAGCEKHLLDKPFYNDFERGAVDSDYDVTVD  
ELGEIQLVRIEKRKYWLNDWYLYITLKTTPHGDYIEFPCYRWITGDVEVVLDRGAKLA  
RDDQIHILKQHRRKELETRQKQYRWMEWNPGFPLSIDAKCHKDLPRDIQFDESEKGVDFVL  
NYSKAMENLFINRFMHMFQSSWNDFADFEKIFVKISNTISERVNMHWQEDLMFGYQFLNG  
CNPVLIRRCTELPEKLPVTTEMVECSLERQLSLEQEVQQGNIFIVDFELLDGIDANKTDP  
CTLQFLAAPICLLYKNLANKIVPIAIQLNQIPGDENPIFLPSDAKYDWLLAKIWRSSDF  
HVHQTITHLRTHLVSEVFGIAMYRQLPAVHPIFKLLVAHVRFTIAINTKAREQLICECG  
LFDKANATGGGGHVQMVQRAMKDLTYASLCFPEAIKARGMESKEDIPIYFYRDDGLLVWE  
AIRTFTAEEVDIYYEGDQVVEEDPELQDFVNDVYVYGMGRKSSGFPKSVKSREQLSEYL  
TVVIFTASAQHAANVFGQYDWCSWIPNAPPTMRAPPPTAKGVVTIEQIVDTLPDRGRSCW  
HLGAVWALSQFQENELFLGMYPEEHFIEKPVKEAMARFRKNLEAIVSVIAERNKKKQLPY  
YYLSPDRIPNSVAI

>sp|Q08397|LOXL1\_HUMAN Lysyl oxidase homolog 1 OS=Homo sapiens GN=LOXL1 PE=1 SV=2

MALARGSRQLGALVWGACLCVLVHGQQAQPGQGSPPARWRQLIQWENNGQVYSLNSGSE  
YVPAGQRSESSSRVLLAGAPQAQQRSHGSPRRRQAPSLPLPGRVGSPTVRGQARHPFG  
FGQVPDNWREVAVGDSTGMARARTSVSQQRHGGSSASSVSASAFASYRQQPSYPQQFPYP

QAPFVSQYENYDPASRTYDQGFVYYRPAGGGVGAGAAVASAGVIYPYQPRARYEEYGGG  
EELPEYPPQGFYPAPERPYVPPPPPPDGLDRRYSHSLYSEGTPGFEQAYPDGPPEAAQA  
HGGDPRLGWYPPYANPPPEAYGPPRALEPPYLPVRSSDTPPPGGERNGAQQGRLSVGSVY  
RPNQNGRGLPDLVPDPNYVQASTYVQRAHL YSLRCAAEEKCLASTAYAPEATDYDVRVLL  
RFPQRVKNGQTADFLPNRPRHTWEWHSCHQHYSMDEFSHYDLLDAATGKKVAEGHKASF  
CLEDSTCDFGNLKRYACTSHTQGLSPGCYDTYNADIDCQWIDITDVQPGNYILKVHVNP  
K YIVLESDFTNVVRNCNIHYTGRYVSATNCKIVQS

>sp|Q96JB6|LOXL4\_HUMAN Lysyl oxidase homolog 4 OS=Homo sapiens GN=LOXL4 PE=1 SV=1

MAWSPPATLFLFLLLGQPPPSRPQSLGTTKLRLVGPESKPEEGRLEVLHQGWGTVCDD  
NFAIQEATVACRQLGFEEALTWAHSAKYGGEGPIWLDNVRVCVGTESLQCGSNGWGS  
DCSHSEDVGVICHPRRHRYLSETVSNALGPQGRRLLEEVRLKPIILASAKQHSPVTEGAVE  
VKYEGHWRVQCDQGWMTNNSRVVCGMLGFPSEVPVDSHYRKYVWDLKMRDPKSRLKSLTN  
KNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHAVVSCVAGPHFRPPKTKPQ  
RKGSWAEPRVRLRSGAQVGEGRVEVLMNRQWGTVCDDRNLISASVCRQLGFGSAREA  
LFGARLGQGLGPIHLSEVRCRGYERTLSDCPALEGSQNGCQHENDAAVRCNPNMGFQNNQ  
VRLAGGRIPEEGLLEVQVEVNGVPRWGSVCSENWGLETEAMVACRQLGLGFAIHAYKETWF  
WSGTPRAQEVVMSGVRCSGTELALQQCQRHGPVHCSHGGGRFLAGVSCMDSAPDLVMNAQ  
LVQETAYLEDRLPSQLYCAHEENCLSKSADHMDWPYGYRRLRLRFSTQIYNLGRDTDFRPKT  
GRDSWVWHQCHRHYHSIEVFTHYDLLTLNGSKVAEGHKASFCLEDTNCPTGLQRRYACAN  
FGEQGVTVGCWDTYRHDIDCQWVDITDVGPGNYIFQVIVNPHYEVAESDFSNNMLQCRCK  
YDGHVWLHNCHTGNSYPANAELSLEQEQLRLNNLI

>sp|Q9BZG9|LYNX1\_HUMAN Ly-6/neurotoxin-like protein 1 OS=Homo sapiens GN=LYNX1 PE=1 SV=3

MTPLLTLILVLMGLPLAQALDCHVCAYNGDNCNPMRCPAMVAYCMTTRTSAAEAIWCH  
QCTGFGGCSHGSRLRDSHCVTTATRVLSNTEDLPLVTMCHIGCPDIPSLGLGPYVSI  
ACCQTSLCNHD

>sp|Q8WZA0|LZIC\_HUMAN Protein LZIC OS=Homo sapiens GN=LZIC PE=1 SV=1

MASRGKTETSKLKQNLLEEQLDRLMQQLQDLEECREELDTDEYEETKKETLEQLSEFNDSL  
KKIMSGNMTLVDELSGMQLAIAAISQAFKTPEVIRLFAKKQPGQLRTRLAEMDRDLMVG  
KLERDLYTQQKVEILTAIRKLGEKLTADDEAFLSANAGAILSQFEKVSTDLGSGDKILAL  
ASFEVEKTKK

>sp|Q567V2|M17L2\_HUMAN Mpv17-like protein 2 OS=Homo sapiens GN=MPV17L2 PE=1 SV=2

MARGGWRLRLRLSAGQLLFQGRALLVTNTLGCALMAAGDGVRSWEIRARPGQVFDPR  
RSASMFVAGCSMGPFHYWYLSLDRLFPASGLRGFPNVLKKVLVDQLVASPLLGVWYFLG  
LGCLEGQTVGESCQELREKFWFQYKADWCWPAAQFVNFLFVPPQFRVTYINGLTLGWDT  
YLSYLKYRSPVPLTPPGCVALDTRAD

>sp|Q6PON0|M18BP\_HUMAN Mis18-binding protein 1 OS=Homo sapiens GN=MIS18BP1 PE=1 SV=1

MIATPLKHSRIYLPPEASSQRRNLPMDAIFFDIPSGLTPVKDLVKYQNSSKLNDHKK  
NQFLKMTTFNNKNIFQSTMLTEATTSNSSLDISAIPNKDGLKNKANYESPGKIFLRMKE  
KVLDRKQEQPSRNSLLEPQKSGNNETFTPNRVEKKKLQHTYLCCEKENNKSQSDSSSL  
RASVQGVPLESSNNDIFLPVKQKIQCQEQKAPLHNLTYELPTLNQEQENFLAVEARNKT  
LTRAQLAKQIFHSKESIVATTKSKKDTFVLESVDSADEQFQNTNAETLSTNCIPIKNGSL  
LMVSDSERTTEGTSQQKVKEGNGKTVPGETGLPGSMKDTCKIVLATPRLHITIPRRSKRN  
ISKLSPPRIFQTVTNGLKKNQVVLQEWMIKSINNNTAICVEGKLIDVTNIYWSNVIIE  
RIEHNKLRTISGNVYILKGMIDQISMKEAGYPNYLIRKFMFGFPENWKEHIDNFLEQLRA

GEKNREKTKQKQKTGRSVRDIRKSMKNDARENQTDTAQRATTTYDFDCDNLELKS NKHSE  
SPGATELNMCHSNCQNKPTLRFPPDDQVNNTIQNGGGDDL SNQELIGKKEYKMSSKKLKIG  
ERTNERI IKSQKQETTEELDV SIDILTSREQFFSDEERKYMAINQKKAYILVTPLKSRKV  
IEQRCMRYNLSAGTIKAVTDFVIPECQKKSPISKSMGTLENTFEGHKS KNKEDCDERDLL  
TVNRKIKISNLEKEQMLTSDFKKNTRLLPKLKKIENQVAMSFYKHQSSPDL SSEESETEK  
EIKRKA EVKKT KAGNTKEAVVHLR KSTRNTSNIPVILEPETEESENEFYIKQKKARPSVK  
ETLQKSGVRKEFPITEAVGSDKTRNHPLECLPGLIQDKEWNEKELQKLHCAFASLPKHKP  
GFWSEVAAAVGSRSP EECQRKYMENPRGKGSQKHVTKKKPANSKGQNGKRGDADQKQTIK  
ITAKVGT LKRKQMQMREFLEQLPKDDHDDFFSTPLQHQRILLPSFQDSEDDDDILPNMDK  
NPTTPSSVIFPLVKTPQCQHVSPGMLGSINRNDCKYVFRMQKYHKSNGGIVWGNIKKKL  
VETDFSTPTPRRKT PFNTDLGENSGIGKLF TNAVESLDEEEKDYF SNSDSA

>sp|Q8TC57|M1AP\_HUMAN Meiosis 1 arrest protein OS=Homo sapiens GN=M1AP PE=1 SV=1

MHPGRTTGKGPSTHTQIDQQPPRL LIVHIALPSWADICTNLCEALQNFFSLACSLMGPSR  
MSLFSLYMVQDQHEC ILPFVQVKGNFARLQTCISELRMLQREGCFRSQGASRLAVEDGL  
QQFKQYSRHVTTRAALTYTSLEITILTSQPGKEVVKQLEEGLKDTDLARVRRFQVVEVTK  
GILEHVDSASPVEDTSNDESSILGTDIDLQTDNDIVSMEIFFKAWLHNSGTDQE QIHL  
LSSQCFSNISRPDNP MCLKCDLQERLLCPSLLAGTADGSLRMDDPKGDFITLYQMASQS  
SASHYKLQVIKALKSSGLCESLTYGLPFILRPTSCWQLDWDELETNQHFHALCHSLLKR  
EWLLLAKEPPPGPGHSQRIPASTFYVIMPSHSLTLLVKAVATRELMLPSTFPLLPEDPHD  
DSLKNVESMLDSLEPTYNPLHVQSHLYSHLSSIIYAKPQGRLHPHWESRAPRKHPCCKTG  
QLQTNRARATVAPLPMTPVPGRASKMPAASKSSSDAFFLPSEWEKDPSRP

>sp|Q6ZN16|M3K15\_HUMAN Mitogen-activated protein kinase kinase kinase 15 OS=Homo sapiens  
GN=MAP3K15 PE=1 SV=2

MESGGGNAPAGALGAASESPQC P P P P GVEGAAGPAEPDGA AEGAAGSGEGESGGGPRRA  
LRAVYVRSESSQGAAGGPEAGARQCLLRACEAEGAHLTSVPFGELDFGETAVLDAFYDA  
DVAVVDMSDVSRQPSLFYHLGVRESFDMANNVILYHDTADTALSLKDMVTQKNTASSGN  
YYFIPYIVTPCADIYCCESDAQRRASEYMQPNWDN ILGPLCMPLVDRFISLLKDIHVTSC  
VYYKETLLNDIRKAREKYQGEELAKELARIKLRMDNTEVLTS DIIINLLSYRDIQDYDA  
MVKLVETLEMLPTCDLADQHN IKFHYAFALNRRNSTGDREKALQIMLQVLQSCDHPGPDM  
FCLCGRIYKDI FLDS DCKDDTSRDSAIEWYRKGFELQSSLYSGINLAVLLIVAGQQFETS  
LELRKIGVRLNSLLGRKGSLEKMNNYWDVGQFFSVSMLAHDVGKAVQAAERLFKLKPPVW  
YLRSLVQNLLL IRRFKKTIIEHSPRQERLNFWDIIFEATNEVTNGLRFPVLVIEPTKVY  
QPSYVSINNEAEERTVSLWHVSPT EMKQMHEWNFTASSIKGISLSKFDERCCFLYVHDNS  
DDFQIYFSTEEQCSRFFSLVKEMITNTAGSTVELEGETDGD TLEYEYDHDANGERVVLGK  
GTYGIVYAGRDL SNQVRIAIKEIPERDSRYSQPLHEEIALHKYLKHRNIVQYLGVSSENG  
YIKIFMEQVPGGSL SALLRSKWGPMKEPTIKFYTKQILEGLKYLHENQIVHRDIKGD NVL  
VNTYSGVVKISDFGTSKRLAGVNPCTETFTGT LQYMAPEIIDQGPRGYGAPADIWSLGCT  
I IEMATSKPPFHELGE PQAA MFKVG MFKIHPEIPEALSAEARA FILSCFEPDPHKRATTA  
ELLREGFLRQVNGKKNRIAFKPSEGPRGVV LALPTQGEPMATSSSEHGSVSPSDAQPD  
ALFERTRAPRHHLGHL LSVPESSALEDRGLASSPEDRDQGLFLLRKDSERRAILYKILW  
EEQNQVASNLQECVAQSSEELHLSVGHIKQII GILRDFIRSPEHRVMATTISKLVLDLDF  
DSSSISQIHLVLFGFQDAVNKILRNHLIRPHWMFAMDNIIRRAVQAAVTILIPELRAHFE  
PTCETEGVDKMD EAEEGYPPATGPGQEAQPHQQHLSLQLGELRQETNRLL EHLVEKERE  
YQNLLRQTLEQKTQELYHLQLKLSNCITENPAGPYGQRTDKELIDWLRLQGADAKTIEK

IVEEGYTLSDILNEITKEDLRYLRLRGGLLCRLWSAVSQYRRAQEASETKDKA

>sp|Q9NXJ0|M4A12\_HUMAN Membrane-spanning 4-domains subfamily A member 12 OS=Homo sapiens  
GN=MS4A12 PE=1 SV=2

MMSSKPTSHAEVNETIPNPYPSSFMAPGFGQPLGSINLENQAQGAQRAQPYGITSPGIF  
ASSQPGQGNIQMINPSVGTAVMNFKEEAKALGVIQIMVGLMHIGFGIVLCLISFSFREV  
GFASTAVIGGYPFWGGLSFIISGSLSVSASKELSRCLVKGSLGMNIVSSILAFIGVILL  
VDMCINGVAGQDYWAVLSGKGISATLMIFSLEFFVACATAHFANQANTTTNMSVLVIPN  
MYESNPVTPASSSAPPRCNNYSANAPK

>sp|Q96PG1|M4A4E\_HUMAN Putative membrane-spanning 4-domains subfamily A member 4E OS=Homo  
sapiens GN=MS4A4E PE=2 SV=2

MTTMQMEQTTGAGPDVPQLGNIDVIHSYLCKGLQEKFVKRKPVLGVVRILIALMSLS  
MGIIMCVAFSSYEEHPIFVYVAYTIWGSVMYPYQLQEELEQQKVWNYLKNLSWRIMGSY  
LCFGERSELKPL

>sp|Q12851|M4K2\_HUMAN Mitogen-activated protein kinase kinase kinase kinase 2 OS=Homo  
sapiens GN=MAP4K2 PE=1 SV=2

MALLRDVSLQDPRDRFELLQRVGAGTYGDVYKARDTVTSELAAVKIVKLDPGDDISLQQ  
EITILRECRHPNVVAYIGSYLRNDRLWICMEFCGGGSLQEYHATGPLEERQIAYVCREA  
LKGLHHLHSQGKIHRDIKGANLLTLQGDVKLADFGVSGELTASVAKRRSFIGTPYWMAP  
EVAVERKGGYNELCDVWALGITAIELGELQPPLFHLHPMRALMLMSKSSFQPPKLRDKT  
RWTQNFHHFLKLALTKNPKKRPTAEKLLQHPFTTQQLPRALLTQLLDKASDPHLGTPSPE  
DCELETYDMFPDTIHSRGQHGAERTPSEIQFHQVKFGAPRRKETDPLNEPWEEWTLLG  
KEELSGSLLQSVQEALERSLTIRSASEFQELDSPDDTMGTIKRAPFLGPLTPDPPAEEP  
LSSPPGTLPSPSGPNSSPLLPTAWATMKQREDPERSSCHGLPPTPKVHMGACFSKVFN  
CPLRIHAAVTWIHPVTRDQFLVVGAEEGIYTLNLHELHEDTLEKLISHRCSWLYCVNNVL  
LSLSGKSTHIWAHDLPLGFEQRRLLQQQVPLSIPTNRLTQRIIPRRFALSTKIPDTKGCLQ  
CRVVRNPYTGATFLAALPTSLLLQWYEPLQKFLLLKNFSSPLSPAGMLEPLVLDGKE  
LPQVCVGAEGPEGPGCRVLFHVLPLEAGLTPDILIPPEGIPGSAQQVIQVDRDTILVSFE  
RCVRIVNMQGEPTATLAPELTFDFPIETVVCQLQDSVLAFWSHGMQGRSLDTNEVTQEITD  
ETRIFRVLGAHRDIILES IPTDNPEAHSNLYILTGHQSTY

>sp|P49641|MA2A2\_HUMAN Alpha-mannosidase 2x OS=Homo sapiens GN=MAN2A2 PE=2 SV=3

MKLKKQVTVCGAAIFCVAVFSLYLMLDRVQHDPTRHQNGGNFPRSQISVLQNRIEQLEQL  
LEENHEIISHIKDSVLELTANAEGPPAMLPYYTVNGSWVPPEPRPSFFSISPQDCQFAL  
GGRGQKPELQMLTVSEELPFDNVDGGVWRQGFDISYDPHDWAEDLQVFVPHSHNDPGW  
IKTFDKYYTEQTQHILNSMVKLQEDPRRRFLWAEVSFFAKWWDNINVQKRAAVRRLVGN  
GQLEIATGGWMPDEANSHYFALIDQLIEGHQWLERNLGATPRSGWAVDPFGYSSTMPYL  
LRRANLTSMLIQRVHYAIKKHFAATHSLEFMWRQTWDSSTDIFCHMMPFYSYDVPHTC  
GDPKICCCQFDFKRLPGGRINCPWKVPPRAITEANVAERAALLLDQYRKKSQLFRRSNVLL  
VPLGDDFRYDKPQEWDAQFFNYQRLFDFFNSRPNLHVQAQFGTLDYFDALYKRTGVEPG  
ARPPGFPVLSGDFFSYADREDHYWTGYTTSRPFYKSLDRVLEAHLRGAEVLYSLAAAHAR  
RSLAGRYPLSDFTLTTEARRTLGLFQHDAITGTAKEAVVVDYGVRLRLSLVNLKQV I I  
HAAHYLVLDKETYHFDPEAPFLQVDDTRLSHDALPERTVIQLDSSPRFVVLFNPLEQER  
FSMVSLLVNSPRVRVLSSEGGPLAVQISAHWSSATEAVPDVYQVSVPVRLPALGLGLVQL  
QLGLDGHRTLPSVR IY LHGRQLSVSRHEAFPLRVIDSGTSDFALS NRYMQVWFSGLTGL  
LKSIRRVD EEEHQQVDMQVLVYGTRTSKDKSGAYLFLPDGEAKPYVPKEPPVLRVTEGPF

FSEVVAYYEHIHQAVRLYNLPGVEGLSLDISSLVDIRDYVNKELALHIHTDIDSQGIFFT  
DLNGFQVQPRRYLKKLPLQANFYPMVMAYIQDAQKRLTLHTAQALGVSSLKDGQLEVIL  
DRRLMQDDNRGLGQGLKDNKRCNRFRLLLRRTVGSEVQDSHSTSYPSLLSHLTSMYLN  
APALALPVARMQLPGPGLRSFHPLASSLPCDFHLLNLRTLQAEEDTLPSAETALILHRKG  
FDCGLEAKNLGFNCTTSQGKVALGSLFHGLDVVFLQPTSLTLLYPLASPSNSTDVYLEPM  
EIATFRLRLG

>sp|Q6ZN28|MACC1\_HUMAN Metastasis-associated in colon cancer protein 1 OS=Homo sapiens  
GN=MACC1 PE=1 SV=2

MLITERKHFRSGRIAQSMSEANLIDMEAGKLSKSCNITECQDPDLLHNWPDFTLRGNA  
SKVANPFWNQLSASNPFDDITQLRNNRKRNNISILKEDPFLFCREIENGNSFDSSGDEL  
DVHQLLRQTSSRNSGRSKSVSELDDILDDTAHAHQSIHNSDQILLHDEWLKNDREAYKM  
AWLSQRQLARSCLDNTISQSPGWAQTLAEVTIACKVNHQGGSVQLPESDITVHVPQGH  
VAVGEFQEVSLRAFLDPPHMLNHDLSCTVSPLEIMLGNLNTMEALLLEMKIGAIEVRKDP  
FSQVMTEMVCLHSLGKEGPFKVLNICYIYKDTIQVKLIDLSQVMYLVAQAQALPSPAA  
TIWDYIHKTTSIGIYGPKYIHPSFTVVLTVCGHNYMPGQLTISDIKKGKKNISPVVFQLW  
GKQSFLLDKPDLSISIFSCDPDFEVKTEGERKEIKKQLEAGEVVHQQLFSLVEHREM  
HLFDFCVQVEPPNGEPVAQFSITTPDPTPNLKRLSNLPGYLQKKEEIKSAPLSPKILVKY  
PTFQDKTLNFSNYGVTLKAVLRQSKIDYFLEYFKGDTIALLGEGKVKAIQSKVKEWYVG  
VLRGKIGLVHCKNVKVISKEQVMFMSDSVFTTRNLLEQIVLPLKKLTYIYSVVLTLVSEK  
VYDWKVLADVLGYSHLSLEDFDQIQADKESEKVSYVIKKLKEDCHTERNTRKFLYELIVA  
LLKMDCQELVARLIQEAAVLTSAVKLGKGWRELAEKLVRLTKQKMEAYEIPHRGNTGDVA  
VEMMWKPAYDFLYTWSAHYGNNYRDVLQDLQSALDRMKNPVTKHWRELTGVLILVNSLEV  
LRVTAFSTSEEV

>sp|Q8N5G2|MACOI\_HUMAN Macoilin OS=Homo sapiens GN=TMEM57 PE=1 SV=1

MKRRNADCSKLRRLKRNRITEGIYGSTFLYLKFLVVWALVLLADVFLEFRFEYLWPFWL  
FIRSVYDSFRYQGLAFSVFFVCVAFSTNIICLLFIPIQWLFFAASYVWVQYVWHTERGV  
CLPTVSLWILFVYIEAAIRFKDLKNFHVDLCRPFAAHCIGYPVVTLGFGFSYVSYKMRL  
RKQKEVQKENEFYMLLQALPPEQQMLQKQEKEAEEAAKGLPMDSSILIHNGGIPAN  
KKLSTTLPEIEYREKGEKDKDAKKNLGINNNILQPVDSKIQEIEYMHNSKRLNN  
DLVGSTENLLKEDSCTASSKNYKNASGVVNSSPRSHSATNGSIPSSSSKNEKKQKCTSKS  
PSTHKDLMENCIPNNQLSKPDALVRLEQDIKKLKADLQASRQVEQELRSQISSLSSTERG  
IRSEMGQLRQENELLQNKLNNAVQMKQKDKQNISQLEKKLKAQEARSFVEKQLMEEKKR  
KKLEEATAARAVAFAAASRGECTETLRNRIRELEAEGKKLTMDMKVKEDQIRELELKVQE  
LRKYKENEKDTEVLMSALSAMQDKTQHLENSLSAETRIKLDLFSALGDAKRQLEIAQGQI  
LQKDQEIKDLKQKIAEVMAMVPSITYSAATSPLSPVSPHYSSKFVETSPSGLDPNASVYQ  
PLKK

>sp|A6NDP7|MADL2\_HUMAN Myeloid-associated differentiation marker-like protein 2 OS=Homo sapiens GN=MYADML2 PE=2 SV=3

MGSTMEPPGGAYLHLGAVTSPVGTARVLQLAFGCTTFSLVAHRGGFAGVQGTFCMAAWGF  
CFAVSALVVACEFTRLHGCLRLSWGNTAAAFAMLATLLCATAAVLYPLYFARRECSPEPA  
GCAARDFRLAASVFAGLLFLAYAVEVALTRARPGQVSSYMATVSGLLKIVQAFVACIIFG  
ALVHDSRYGRYVATQWCVAVYSLCFLATVAVVALSVMGHTGGLGCPFDRLVVVYTFVLAVL  
LYLSAAVIWPVFCFDPKYGEKRPNCARGSCPWDSQLVVAIFTYVNNLLLYVVDLAYSQR  
IRFVPSL

>sp|P43357|MAGA3\_HUMAN Melanoma-associated antigen 3 OS=Homo sapiens GN=MAGEA3 PE=1 SV=1  
MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPD  
PPQSPQGASSLPTTMNYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAELVHFL  
LLKYRAREPVTKAEMLGSSVGNWQYFFPVIFSKASSSLQLVFGIELMEVDPIGHLYIFAT  
CLGLSYDGLLDGNQIMPKAGLLIIVLAI IAREGDCAPEEKIWEELSVLEVFEGREDSILG  
DPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRLVETSIVKVLHHMVKISGGPHIS  
YPPLHEWVLEEGEE

>sp|O15481|MAGB4\_HUMAN Melanoma-associated antigen B4 OS=Homo sapiens GN=MAGEB4 PE=1 SV=1  
MPRGQKSKLRAREKRQRTRGQTQDLKVGQPTAAEKEESPSSSSSVLRDTASSSLAFGIPQ  
EPQREPPTTAAAAAMSGTSGDKGDESQDEENASSSQASTSTERSLKDSLTRKTKMLVQFL  
LYKYMKEPTTKAEMLKIIISKYKEHFPEIFRKVSQRTELVFGLALKEVNPTTHSYILVS  
MLGPNQGNQSSAWTLPRNGLLMPLLSVIFLNGNCAREEEIWEFLNMLGIYDGKRHLIFGE  
PRKLITQDLVQEKYLEYQQVPNSDPPRYQFLWGPRAHAETSKMKVLEFLAKVNDTTPNNF  
PLLYEEALRDEEERAGARPRVAARRGTTAMTSAYS RATSSSSSQPM

>sp|P43366|MAGB1\_HUMAN Melanoma-associated antigen B1 OS=Homo sapiens GN=MAGEB1 PE=1 SV=2  
MPRGQKSKLRAREKRRKAREETQGLKVAHATAAEKEECPSSSPVLGDTPTSSPAAGIPQK  
PQGAPPTTTAAAVSCTESDEGAKCQGEENASFSQATTSTESSVKDPVAWEAGMLMHFIL  
RKYKMREPIMKADMLKVVDKEYKDHFEILNGASRRLELVFGLDLKEDNPSGHTYTLVSK  
LNLNDGNLSNDWDFPRNGLLMPLLGVI FLKGN SATEEEIWKFMNVLGAYDGEHLIYGE  
PRKFITQDLVQEKYLKYEQVPNSDPPRYQFLWGPRAAETTKMKVLEFLAKMNGATPRDF  
PSHYEEALRDEEERAQVRSSVRARRRTTATTFRARSRAPFSRSSHPM

>sp|Q8TD91|MAGC3\_HUMAN Melanoma-associated antigen C3 OS=Homo sapiens GN=MAGEC3 PE=1 SV=1  
MLLPCHWVLDAFSDGSLGQWVKNTCATYALSPVVLPPQPQPRKKATDKDYS AFHLGHLR  
EVRLFLRGGTSDQRMDSLVLCPYFKLWRTLSGSPGLQLSDLHFGSQPEGKFSLRRAVS  
KQREEPQDWPLNEKRTLWKDSDLPTWRRGTGYTSLPAVSPGKRLWGEKAGSLPESEPLF  
TYTLDEKVDKL VQFLLLKYQAKEPLTRAEMQMNVIN TYTG YFPMIFRKAREFIEILFGIS  
LTEVDPDHFYFVNTLDLTCEGSLSD EQGMPQNRLILILSVIFIKGNCASEEVIWEVLN  
AIGPWSALAGFADVLSRLALWESEGEAFCEESGLRSAEGSVLDLANPQGLAGHRQEDGR  
RGLTEASPPQKKGGEDEMPAAGMPPLPQSPPEIPPQGPPKISPQGPQSPQSPPLDSCS  
SPLLWTRLDEESSSEEDTATWHALPESESLPRYALDEKVAELVQFLLLKYQTKEPVTKA  
EMLTTVIKKYKDYFPMIFGKAHEFIELIFGIALTMDPDNHSYFFEDTLDLTYEGSLIDD  
QGMPKNCLLILILSMIFIKGSCVP EEVIWEVLSAIGPIQRPAREVLEFLSKLSSIIPSAF  
PSWYMDALKDMEDRAQAIIDTTDDATAMASASPSVMSTNFCPE

>sp|Q9Y5V3|MAGD1\_HUMAN Melanoma-associated antigen D1 OS=Homo sapiens GN=MAGED1 PE=1 SV=3  
MAQKMDCGAGLLGFQAEASVEDSALLMQTLMEAIQISEAPPTNQATAAASPQSSQPPTAN  
EMADIQVSAAAARPKSAFKVQNATTKGPNGVYDFSQAHNAKDVNTQPKAAFKSQNATPK  
GPNAAYDFSQAATTGELAANKSEMAFKAQNATTKVGP NATYNFSQSLNANDLANSRPKTP  
FKAWNDDTKAPTADTQTQNVNQAKMATSQADIETDPGISEPDGATAQTSADGSQAQNL  
ESRTIIRGKRTRKINNLNVEENSSGDQRRAPLAAGTWRSAPVPVTTQNPPGAPPNVLWQTPL  
AWQNPSGWQNQTARQTTPPARQSPPARQTPPAWQNPVAVQNPVIWPNPVIWQNPVIWPNPI  
VWGPVWVWNPLAWQNPPGWQTPPGWQTPPGWQGPDPWQGPDPWPLPPDWPLPPDWPLPT  
DWPLPPDWIPADWPIPPDWQNLRPSPNLRSPNSRASQNP GAAQPRDVALLQERANKLVK  
YLMLKDYTKVPIKRSEMLRDI IREYTDVYPEI IERACFVLEKKFGIQLKEIDKEEHLIYL  
ISTPESLAGILGTTKDTPKLGLLLVILGVIFMNGNRASEAVLWEALRKMGLRPGVRHPLL



GDLRKLLTYEFVKQKYLDYRRVPNSNPPEYEFWGLRSYHETSKMKVLRFIAEVQKRDPR  
DWTAFMEAADEALDALAAAAEAEARAEARTRMGIGDEAVSGPWSWDDIEFELLTWDEE  
GDFGDPWSRIPFTFWARYHQNARSFPQTFAGPIIGPGGTASANFAANFGAIGFFWVE

>sp|Q9UNF1|MAGD2\_HUMAN Melanoma-associated antigen D2 OS=Homo sapiens GN=MAGED2 PE=1 SV=2

MSDTSESGAGLTRFQAEASEKDSSSMQTLLTVTQNVEVPETPKASKALEVSEDVKVSKA  
SGVSKATEVSKTPEAREAPATQASSTTQLTDTQVLAENKSLAADTKKQADPQAVTMPA  
TETKKVSHVADTKVNTKAQETEAPSQAPADEPEPESAAAQSQENQDTRPKVKAKKARKV  
KHLGGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFWARRASRTRLAAWARR  
ALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQGRANDLVKYLLAKDQTKIPI  
KRSDMLKDIKEYTDVYPEIIERAGYSLEKVFQIQLKEIDKNDHLYILLSTLEPTDAGIL  
GTTKDSPLKGLLMVLLSIIIFMNGNRSSEAVIWEVLRLKGLRPGIHHSFLGADVKKLITDEF  
VKQKYLDYARVPNSNPPEYEFWGLRSYYETSKMKVLKFACKVQKKDPKEWAAQYREAME  
ADLAAAEEAAAEAKARAEIRARMGIGLSENAAGPCNWDEADIGPWAKARIQAGAEAKAK  
AQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTFGLFAGLGGAGASTSGSSGA  
CGFSYK

>sp|P33032|MC5R\_HUMAN Melanocortin receptor 5 OS=Homo sapiens GN=MC5R PE=1 SV=3

MNSSFHLHFLDLNLNATEGNLGPNVKNKSSPCEDMGIAVEVFLTLGVISLLENILVIGA  
IVKNKNLHSPMYFFVCSLAVADMLVSMSSAWETITIIYLLNNKHLVIADAFVRHIDNVFDS  
MICISVVASMCSLLAIAVDRYVTIFYALRYHHIMTARRSGAIIAGIWAFACTGCGIVFILY  
SESTYVILCLISMFFAMLFLLVSLYIHMFLARTHVKRIAALPGASSARQRTSMQGAVTV  
TMLLGVTVCWAPFLHLTLMLSQPQLYCSRFSHFNMYLILIMCNSVMDPLIYAFRSQ  
EMRKTFKEIICCRGFRIACSFPRRD

>sp|Q5U623|MCAF2\_HUMAN Activating transcription factor 7-interacting protein 2 OS=Homo sapiens GN=ATF7IP2 PE=1 SV=2

MASPDRSKRKILKAKKTMPLSRCRKQVEMLNKSRNVEALKTAIGSNVPSGNQSFSPSVITR  
TTEITKCSPEENGASSLDSNKSISEKSKVFSQNCIKPVEEIVHSETKLEQVVC SYQKPS  
RTTESPSRVFTEEAKDSLNTSENDSEHQTNVTRSLFEHEGACSLKSSCCPPSVLSGVVQM  
PESTVTSTVGDKTDQMVFHLETNSNSES HDKRQSDNILCSEDSGFVPVEKTPNLVNSVT  
SNNCADDILKTDECSRTSISNCESADSTWQSSLDTNNSHYQKKRMFSENEENVKRMKTS  
EQINENICVSLERQTAFLEQVRHLIQQEIYSINYELFDKKLKELNQRIGKTECRNKHEGI  
ADKLLAKIAKLQRRIKTVLLFQRNCLKPNMLSSNGASKVANSEAMILDKNLESVNSPIEK  
SSVNYEPSNPSEKSGKINLSSDQNKSVSESNDDVMLISVESPNLTPITSNPTDTRKI  
TSGNSSNSPNAEVMVQKKLDSIIDLTKEGLSNCNTESPVSPLESHSKAASNSKETTPLA  
QNAVQVPESFEHLPLPEPPAPLPELVDKTRDTLPPQKPELKVKRVFRPNGIALTNWITK  
INPKCAPVESYHLFLCHENSNNKLIWKKIGEIKALPLPMACTLSQFLASNRYFTVQSKD  
IFGRYGPFCDIKSIPGFSENLT

>sp|P49901|MCSP\_HUMAN Sperm mitochondrial-associated cysteine-rich protein OS=Homo sapiens GN=SMCP PE=1 SV=2

MCDQTKHSKCCPAKGNQCCPPQNNQCCQSKGNQCCPPKQNNQCCQPKGSQCCPPKHNHCCQ  
PKPPCCIARCCGLETKPEVSPLNMESEPNSPQTQDKGCQTQQQPHSPQNESRPSK

>sp|A1A4G5|LNP1\_HUMAN Leukemia NUP98 fusion partner 1 OS=Homo sapiens GN=LNP1 PE=2 SV=1

MEHKDDDDDDVSFAKWMSSFWGHWSREEDQRGLRERHRLQATSHRKTSLPCPLVLPRI  
SSDCHPRRHSHEDQEFRCRSHVRDYRKYSEDGSFKEPLESKGRSHSKIEKFSESFERQLC  
FRTKRSASLGPESRKERNERECLRMEIKSRKKVEEERSRKEEHGEAHMAPLFEGGPE

>sp|Q9HBW0|LPAR2\_HUMAN Lysophosphatidic acid receptor 2 OS=Homo sapiens GN=LPAR2 PE=1 SV=2

MMVMGQCYYNETIGFFYNNSGKELSSHWPKDVVVVALGLTVSVLVLLTNLLVIAAIASN  
RRFHQPIYYLLGNLAAADLFAGVAYLFLMFHTGPRTARLSLEGWFLRQGLLDTSLTASVA  
TLIAIAVERHRSMVAVQLHSRLPRGRVVMLIVGVVWAALGLGLLPAHSWHCLCALDRCSR  
MAPLLSRSYLAVWALSSLLVFLLMVAVYTRIFFYVRRRVQRMAEHVSCHPRYRETTLSLV  
KTVV IILGAFVVCWTPGQVVLLLDGLGCESC NVLAVEKYFLLAEANSLVNAAVYSCRDA  
EMRRTFRRLCCACL RQSTRESVHYTSSAQGGASTRIMLPENGHPLMDSTL

>sp|Q9H1C0|LPAR5\_HUMAN Lysophosphatidic acid receptor 5 OS=Homo sapiens GN=LPAR5 PE=2 SV=1

MLANSSSTNSSVLPCPDYRPTHRLHLVVYSLVLAAGLPLNALALWVFLRALRVHSVVS  
MCNLAASDLLFTLSLPVRLSYALHHWFPDLLCQTTGAIFQMNMYGSCIFLMLINVDY  
AAIVHPLRLRHLRRPRVARLLCLGVWALILVFAVPAARVHRPSRCRYRDLVRLCFESFS  
DELWKGRLLPLVLLAEALGFLPLAAVYSSGRVFWTLARPDATQSQRRRKTVRLLANL  
VIFLLCFVPYNSTLAVYGLLRSKLVAAASVPARDRVRGVLMVMVLLAGANCVLDPLVYF  
AEGFRNTLRGLGTPHRARTSATNGTRAALAQSERSAVTTDATRPDAASQGLLRPSDSHSL  
SSFTQCPQDSAL

>sp|Q92539|LPIN2\_HUMAN Phosphatidate phosphatase LPIN2 OS=Homo sapiens GN=LPIN2 PE=1 SV=1

MNYVGQLAGQVIVTVKELYKGINQATLSGCIDVIVVQQQDGSYQCSPFHVRFGLGVLR  
KEKVIDIEINGSAYDLHMKLGDNGEAFVVEETEEYEKLPAYLATSPIPTEDQFFKDIDT  
PLVKSGDETSPQSSDISHVLETETIFTSSVKKKKRRRKYKQDSKKEEQAAASAAEDT  
CDVGVSDDDKGAQAARGSSNASLKEEKEP L LFHSGDHYPLSDGWSPLETTPQTAC  
PKSDSELEVKPAESLLRSESHMEWTWGGFPESTKVS KRERSDHHPTATITPSENTHFRV  
IPSEDNLISEVEKDASMEDTVCTIVKPKPRALGTQMSDPTSVAELLEPPLESTQISSMLD  
ADHLPNAALAEAPSESKPAKVDSPSKKKG VHKRSQHQPDDIYLDLKGLEPEVAALYF  
PKSESEPGSRQPESDTLSGSQSPQSVGSAAADSGTECLSDSAMDLPDVTLSLGGGLSEN  
GEISKEKFMEHIIITYHEFAENPLIDNPNLVIRIYNRYYNWALAAPMILSLQVFQKSLPK  
ATVESWVKDKMPKSGRWWFWRKRESMTKQLPESKEGKSEAPPASDLPSSSKEPAGARPA  
ENDSSSDEGSQELESITVDPIPTPLSHGSTTSYKKSRLSSDQIAKLKLHDGPNDVVF  
SITTQYQGTCTRCAGTIYLNWWDKIIISDIDGTITKSDALGQILPQLGKDWTHQGIKLY  
HSINENGYKFLYCSARAIGMADMTRGYLHWVNDKGITLPRGPLMLSPSSLFSAFHREVIE  
KKPEKFKIECLNDIKNLFAPSKQPFYAAFGNRPNDVYAYTQVGVPCDRIFTVNPKGELIQ  
ERTKGNKSSYHRLSELVEHVFP LLSKEQNSAFPCPEFSSFCYWRDPIPEVDLDDLS

>sp|Q86U10|LPP60\_HUMAN 60 kDa lysophospholipase OS=Homo sapiens GN=ASPG PE=2 SV=3

MARAVGPERRLLAVYTGGTIGMRSELGVLPGTGLAAILRTLPMFHDEEHARAGLSEDT  
LVLPPASRNQRILYTVLEQCPLFDSSDMTIAEWVCLAQTIKRHYEQYHGFVVIHGTDTMA  
FAASMLSFMLENLQKTVILTGAQVPIHALWSDGRENLLGALLMAGQYV IPEVCLFFQNQL  
FRGNRATKVDARRFAAFCSPNLLPLATVGADITINRELVRKVDGKAGLVVHSSMEQDVGL  
LRLYPGIPAALVRAFLQPLKGVMETFGSGNGPTKPDLLQELRVATERGLVIVNCTHCL  
QGAVTTDYAAGMAMAGAVISGFDMTSEAALAKLSYVLGQPGLSLDVRKELLTKDLRGEM  
TPPSVEERRPSLQGNLTGGGVSWLLSLSGSQEADALRNALVPSLACAAAAGDVEALQAL  
VELGSDGLGVDFNGQTPLHAAARGGHEAVTMLLQRGVDVNTRDTDGFSPLLLAVRGRHP  
GVIGLLREAGASLSTQELEEAGTELCLRAYRADLEGLQVWWQAGADLGQPGYDGHSAHV  
AEAAGNLAVVAFLQSLEGAVGAQAPCPEVLPV

>sp|A6NHZ5|LR14B\_HUMAN Leucine-rich repeat-containing protein 14B OS=Homo sapiens  
GN=LRRC14B PE=3 SV=3

MDTMRSLRFISAEALVSHQPVARQSLDSVAHNLYPLLFKASYLLEQAEVTRAVLGRWPLE  
EFRLGALLGPGADHPQDLDRDTRACLEALVRGLADHVLQDRSRRRLRVADLTGIRDVQV  
QRCPCGRALGRWGRTQLLARTCCELQAEPLAAGRPVEVLADLFVTEGNFEAVVQALRPAG  
PAPLRVHCPSFRADSLSPSPLLHVLRLAGPGALRKLEVVHNVRLHAGHVQQLAQVGFPR  
LASLTLPKAFDAPPTYASTPDGEDPLLASIARELSKMAQTELSVAFSTLTGKIPTLLG  
PLQTPLRVLDLANCALNHTDMAFLADCAHAAHLEVLDLSGHNLSLYPSTFFRLLSQASR  
TLRILTLEECGIVDSHVGMILGLSPCHRLRQLKFLGNPLSARALRRLFTALCELPELRC  
IEFPVPKDCYPEGAAYPQDELAMSKFNQKYDEIAEELRAVLLRADREDIQVSTPLFGSF  
DPDIQETSNELGAFLQAFKTALENFSRALKQIE

>sp|O95237|LRAT\_HUMAN Lecithin retinol acyltransferase OS=Homo sapiens GN=LRAT PE=1 SV=2

MKNPMLEVVSLLEKLLISNFTLFSSGAAGEDKGRNSFYETSSFHRGDVLEVPRTHLTH  
YGIYLGDNRAHMMPDILLALTDDMGRTQKVVSNNKRLILGVIVKVASIRVDTVEDFAYGA  
NILVNHLDLDESQKKALLNEEVARRAEKLLGFTPYSLWNNCEHFVTCRYGTPISPQSDK  
FCETVKIIRIQRSVLASAVLGLASIVCTGLVSYTTLPALFIPFFLWMAG

>sp|Q96CN5|LRC45\_HUMAN Leucine-rich repeat-containing protein 45 OS=Homo sapiens  
GN=LRRC45 PE=1 SV=1

MEEFRSSYSRLCRESGAEPQEAVALQQLHQLPRGRDLATQSLTVETCRALGKLLPRETLC  
TELVLSDCMLSEEGATLLLRLGCANTVLRFLDLKGNLRAAGAEALGKLLQQNKSISQSLT  
LEWNSLGTWDDAFATFCGGLAANGALQRLDLRNNQISHKGAEELALALKGNTTLQQLDLR  
WNNVGLLGGRALMNCLPSNRTLWRLDLAGNNIPGDVLRAVEQAMGHSQDRLTTFQENQAR  
THVLSKEVQHLREEKSKQFLDMETIDKQREEMAKSSRASAARVGQLQEALNERHSINA  
LKAKLQMTAALALSEQKAQDLGELLATAEQEQLSLSQRQAKELKLEQQEAAERESKLLR  
DLAANEKNLLLQNQVDELERKFRCCQQLFQTRQEMTSMAELKMRAIQAEERLDMEKR  
RCRQSLEDSESLRIKEVEHMTRLHEESEKAMQERVQRLEAARLSLEEELSRVKAALSER  
GQAEELIKAKSQARLEEQQRLAHLEDKLRLLAQARDEAQGACLQQKQVVAEAQTRVSQL  
GLQVEGLRRRLEELQQELSKDQERVAEVSRRVRELQEQNGRLQAEALAAQEALREKAAAL  
ERQLKVMASDHREALLDRESENASLREKLRLREAEIARIRDEEAQRASFLQNAVLAIVQA  
SPVRTLSPPK

>sp|Q8N1G4|LRC47\_HUMAN Leucine-rich repeat-containing protein 47 OS=Homo sapiens  
GN=LRRC47 PE=1 SV=1

MAAAVSESWPELEAERERRRELLLTPGPLEERVRAAGGQLPPRLFTLPLLHYLEVSGC  
GSLRAPGPGLAQGLPQLHSLVLRNALGPGLSPGLPALRVLDLSGNALEALPPGQGL  
GPAEPPGLPQLQSLNLSGNRLRELPA DLARCAPRLQSLNLTGNCLDSFPAELFRPGALPL  
LSELAADNCLRELSPDIAHLASLKTLDLSNNQLSEIPAELADCPKLKEINFRGNKLRDK  
RLEKMGVSGCQTRSILEYLRVGGGGGKGKGAEGSEKEESRRKRERKQRREGGDGEEQD  
VGDAGRLLLRVLHVS ENPVPLTVRVSPVDRPYIVGAVVRGMDLQPGNALKRFLTSQT  
KLHEDLCEKRTAATLATHELRAVKGPLLYCARPPQDLKIVPLGRKEAKAKELVRQLQLEA  
EEQRKQKKRQSVSGLHRYLHLLDGNENYPCLVDADGDVISFPPITNSEKTKVKKTTSDLF  
LEVTSATSLQICKDVM DALILKMAEMKKYTLENKEEGSLSDTEADAVSGQLPDPTTNPSA  
GKDGPSLLVVEQVRVVDLEGLSKVVYPSKADLATAPPHVTVVR

>sp|Q9NT99|LRC4B\_HUMAN Leucine-rich repeat-containing protein 4B OS=Homo sapiens  
GN=LRRC4B PE=2 SV=3

MARARGSPCPPLPPGRMSWPHGALLFLWLFSPPLGAGGGGVAVTSAAGGGSPPATSCPVA  
CSCSNQASRVICTRRDLAEVPASIPVNTRYLNQENGIQVIRTDTFKHLRHLEILQLSKN  
LVRKIEVGAFNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNPIESIPSYAFNR  
VPSLRRLDLGELKRLEYISEAAFEGLVNRLRYNLGMCNLKDIPNLTAIVRLEEELSGNR  
LDLIRPGSFQGLTSLRKLWLMHAQVATIERNADFDDKSLEELNLSHNNLSLPHDLFTPL  
HRLERVHLNHNPHWCNCDVLWLSWWLKETVPSNTTCCARCHAPAGLKGRYIGELDQSHFT  
CYAPVIVEPPTDLNVTEGMAAELKCRTGTSMTSVNWLTPNGTLMTHGSYRVRSVLHDGT  
LNFTNVTVDGTGQYTCMVTNSAGNTTASATLNVSAVDPVAAGGTGSGGGPGGSGGVGGG  
SGGYTYFTTFTVETLETQPGEALQPRGTEKEPPGPTTDGVWGGGRPGDAAGPASSSTA  
PAPRSSRPTEKAFTVPITDVTENALKDLDVMTTKIIIGCFVAITFMAAVMLVAFYKLR  
KQHQLHKHHGPTRTVEIINVEDELPAASAVSAAAAAVASGGGVGGDSHLALPALERDHL  
NHHHYVAAAFKAHYSSNPSSGGGCGGKGPPLNSIHEPLLFKSGSKENVQETQI

>sp|Q96E66|LRC51\_HUMAN Leucine-rich repeat-containing protein 51 OS=Homo sapiens  
GN=LRTOMT PE=2 SV=1

MNKRDMNTSVQEPPLDYSFRSIHVIQDLVNEEPRTGLRPLKRSKSGKSLTQSLWLNNV  
LNDLRDFNQVASQLLEHPENLAWIDLFSNDLTSIDPVLTTFFNLSVLYLHGNSIQRLGEV  
NKLAVLPRLSLTLHGPNMEEKGYRQYVLCITLSRITTFDFSGVTKADRTTAEVWKRMNI  
KPKKAWTKQNTL

>sp|A6NM62|LRC53\_HUMAN Leucine-rich repeat-containing protein 53 OS=Homo sapiens  
GN=LRR53 PE=4 SV=2

MLRLVAACPESCVCTKDVTLCCHQLTYIVAAPMTTRVLIITDGYLSSIESTNLSLLFNLA  
LLSLSRNGIEDVQEDALHGLTMLRLLLEHNQISSSSLTDHTFSKLHSLQVLVLSNNALR  
TLRGSWFRNTSGLTRLQLDGNQITNLTDSSFGGTNLHSLRYLDLSNNFISYIGKDAFRPL  
PQLQEVDLSRNRLAHMPDVFTPLKQLILLSLDKNQWSCTCDLHPLARFLRNYIKSSAHTL  
RNAKDLNCQPSTAATAVAAAQSVLRLSETNCDKAPNFTLVLKDRSPLLPGPDVALLTVLGF  
AGAVGLTCLGLVVFNWKLHQKANEHTSENLCRRTFDEPLCAHEARNYHTKGYCNCHLTQ  
ENEIKVMSTVGSRKEMPLLQENSHQATSASESATLDGSFRNLKKKDRGVGSTLFCQDGR  
LHSECSEPPGNMRAFNEAGLLTTYNPRKVQKLWNLEPGEVQPQTLQHIIIRTEDISSDIF  
RRRYATPASALAGESLEKRLTNESWQPPIEKEDNGLPHRQRHFITSSSKPCEPEEHYV  
QKIVQKNRSKYDDPCGLLKQSKPRYFQPNNSLICKYVPCEQFEDYMKEKKPNRRQHSKPE  
KEQIQINSAIEKFLMSEDNIDLSGLSTKTKKAYSPKRVIFHDPDLVEINRSMSPKISTP  
WKRQKNQSNQLTKLDVKKFSNTGERNKGEKWFNSWVLKRKRTPQSDLKGKIKGQNLKLN  
LHPFRKVRVHPEKSLSSLPKQCKQVLLPPKKLSKTSETEAKINTVCSADFLQQSESNYV  
RLTSKRLPLKHSKQTPYYQRNTKRAPLLSANNLRVNVQSSIESSCYSAGHIPDGNTSKL  
PQPTPTDAEHRHSHSQFSTEQMEDATQLESKVLSTATTWENTGSDVLPFQHSRRATDQG  
TTESTEHMGQNVSKTSELNQFSLSPRNQTQLLDAHKTD SYNKEYTLDQNEALQHREQNSS  
HALENKEKTLMTKPQISHQIVENCIMDKENDVEKKLSKTETYDSSLIPQTQSKNNLSF  
MKTNSIPYQNRIELPKDISTSPVSSQAVWHLTNSSEKIDSTNALPRNDGTEALEIKIVG  
KEEKNMLDESKTDSSMLTQISQMTLKGITKERQQTWENGTSKYILHDASSAEETITAKD  
LSITSSHETQNRILCSEVDPEVNSNVHNFREVQNIQPDKDSAHEGAMTVETHEALSFLP  
GLKDSFEAENEVFLVPSRINEAENSAPKPVLYPPSAEYATTSPLETE

>sp|Q6ZSA7|LRC55\_HUMAN Leucine-rich repeat-containing protein 55 OS=Homo sapiens  
GN=LRR55 PE=1 SV=2

MGSLQHCCCLLPKMGGDTWAQLPWPGPPHAPMLLISLLLAAGLMHSDAGTSCPVLCTCRNQ

VVDCSSQRLFSVPPDLPMDTRNLSLAHNRTAVPPGYLTCYMELQVLDLHNNSLMELPRG  
LFLHAKRLAHLDSLNNFVSHVPADMFQEAHGLVHIDLSHPWLRRVHPQAFQGLMQLRDL  
DSYGGLAFLSLEALEGLPGLVTLQIGGNPWVCGCTMEPLLKWLRNRIQRCTADSQLAEC  
RGPPEVEGAPLFSLTEESFKACHLTLLDDYLFIAFVGFFVVSIAVATNFFLLGITANCCH  
RWSKASEEEEEI

>sp|Q8N9N7|LRC57\_HUMAN Leucine-rich repeat-containing protein 57 OS=Homo sapiens  
GN=LRR57 PE=1 SV=1

MGNALRAHVETAQKTGVFQLKDRGLTEFPADLQKLTSNLRITIDLSNNKIESLPPLIGK  
FTLLKSLSLNNKLTVPDEICNLKKLETLSLNNHLRELSTFGQLSALKTSLSGNQL  
GALPPQLCSLRHLDVMDLSKNQIRSDSVGELQVIELNLNQNQISQISVKISCCPRLKI  
LRLEENCLLSMLPQSILSDSQICLLAVEGNLFEIKKLRELEGYDKYMERFTATKKKFA

>sp|Q96CX6|LRC58\_HUMAN Leucine-rich repeat-containing protein 58 OS=Homo sapiens  
GN=LRR58 PE=1 SV=2

MEEAGAAVVTAGEAELNWSRLSVSTETLESELEARGEERRGAREALLRLLLPHNRLVSLP  
RALGSGFPHLQLLDVSGNALTALPELLALRGLRTLLAKNNRLGGPSALPKGLAQSPLCR  
SLQVLNLSGNCFQEVPAALLELRALQTLSLGGNQLQSIPAEIENLQSLECLYLGGNFIKE  
IPPELGNLPSLNYLVLCDNKIQSIPPQLSQLHSLRSLSLHNNLLTYLPREILNLIHLEEL  
SLRGNPLVVRFRDLTYDPPTLLELAARTIKIRNISYTPYDLPGNLLRYLGSASNCNP  
CGGVYFDCCVRQIKFVDFCGKYRLPLMHYLCSPCSPCSSASHSSTSQSESDSEDEASV  
AARRMQKVLLG

>sp|Q6P9F7|LRC8B\_HUMAN Volume-regulated anion channel subunit LRR8B OS=Homo sapiens  
GN=LRR8B PE=1 SV=2

MITLTELKCLADAQSSYHILKPWWDVFWYYITLIMLLVAVLAGALQLTQSRVLCCLPCKV  
EFDNHCAPWDILKASMTSSNPGTPLPLPLRIQNDLHRQYQSYIDAVCYEKQLHWFQAF  
FPYLVLHHTLIFAACSNFWLHYPSTSSRLEHFVAILHKCFDSPWTTRALSETVAEQSVRP  
LKLSKSKILLSSGCSADIDSGKQSLPYPQPGLESAGIESPTSSVLDKKEGEQAKAIFEK  
VKRFRMHVEQKDIIRVYVKQIIIVKVLVLIITYVPYFLTHITLEIDCSVDVQAFTGYK  
RYQCVYSLAEIFKVLASFYVILVILYGLTSSYSLWMLRSSLKQYSFEALREKSNYS  
DIPDVKNDFAFILHLADQYDPLYSKRFSIFLSEVSENKQINLNNEWTVEKLKSKLVKNAQD  
KIELHLFMLNGLPDNVFELTEMEVLSLELPEVKLPASVSQLVNLKELRVYHSSLVVDHP  
ALAFLEENLKILRLKFTMGKIPRWVFLKNLKLKLYLSCVLPQELSTMQLEGFQDLKNL  
RTLYLKSSSLRIPQVVDLLPSLQKLSLDNEGSKLVVLNNLKKMVNLKSLELISCDLERI  
PHSIFSLNNHLELDLRENNLKTVEEIIISFQHLQNLSCKLWHNNIAYIPAQIGALSNEQ  
LSLDHNNIENLPLQLFLCTKLHYLDLSYNHLTFIPEEIQYLSNLQYFAVTNNNIEMLPDG  
LFQCKKLQCLLLGKNSLMNLSPHVGELSNLTHLELIGNYLETLPELEGCSLKRNC  
LIV EENLLNTLPLPVTERTLQCLDKC

>sp|Q7L1W4|LRC8D\_HUMAN Volume-regulated anion channel subunit LRR8D OS=Homo sapiens  
GN=LRR8D PE=1 SV=1

MFTLAEVASLNDIQPTYRILKPWWDVFM DYLA VVMLMVAIFAGTMQLTKDQVVCPLVPS  
PVNSKAHTPPGNAEVTNIPKMEAATNQDQDGRRTNDISFGTSAVTPDIPLRATYPR  
TDFALPNQEAKKEKDPGRKTNLDQYQYVFINQMCYHLALPWYSKYFPYLALHTIILMVSS  
NFWFKYPKTCSEVHFVSILGKCFESPWTTKALSETACEDSEENKQRITGAQTLPHVST  
SSDEGSPSASTPMINKTGKFSAEKPVIEVPSMTILDKKDGEQAKALFEKVRKFR  
AHVEDSDLIYKLYVVQTVIKAKFIFILCYTANFVNAISFEHVCKPKVEHLIGYEV  
FECTHNMAY

MLKKLLISYISIIICVYGFICTYTLFWLFRIPLKEYSFEEKVREESSFS DIPDVKNDFAFLL  
HMVDQYDQLYSKRFGVFLSEVSENKLR EISLNHEWTFEKL RQHISRNAQDKQELHFLMLS  
GV PDAVFDLTDL DVLKLEL IPEAKIPAKISQMTNLQELHLC HCPAKVEQTAFSFLRDHLR  
CLHVKFTDVAEIPAWVYLLKNLRELYLIGNLSENKMI GLESLREL RHLKILHVKS NLT  
KVPSNITDVAPHLTKLVIHNDG TKLLVLNSLKKMMNVAEELQNC ELERIPHAIFSLSNL  
QELDLKSNNIRTIEEIIISFQHLKRLTCLKLWHNKIVTIPPSITHVKNLES LYFSNNKLES  
LPVAVFSLQKL RCLDVSYNNISMIPIEIGLLQNLQHLHITGNKVDILPKQLFKCIKLRTL  
NLGQNCITSLPEKVGQLS QLTQLELKGNC LDRLPAQLGQCRMLKKSGLVVEDH LFDTLPL  
EVKEALNQDINIPFANGI

>sp|075427|LRCH4\_HUMAN Leucine-rich repeat and calponin homology domain-containing protein 4 OS=Homo sapiens GN=LRCH4 PE=1 SV=2

MAAAVAAPLAAGGEEAAATTSVPGSPGLPGRRAERALEEAVATGTLNLSNRRLKHFPRG  
AARSYDLS DITQADLSRNRFP EPEAACQLVSLEGLSLYHNCLRCLNPALGNLTALTYLN  
LSRNQLSLLPPYICQLPLRVLI VSNKLGALPPDIGTLGSLRQLDVSSNELQSLPSEL CG  
LSSRLDLNVR RNQLSTLPEELGDLPLVRLDFSCNRVSRIPVSFCRLRHLQVILLDSNPLQ  
SPPAQVCLKGKLHIFKYLSTEAGQRGSALGDLAPSRPPSFSPCPAEDLFP GHRYDGG LDS  
GFHSVDSGSKRWSGNESTDEFSELSFRISELAREPRGPRERKEDGSADGDPVQIDFIDSH  
VPGEDEERGTVEEQRPELSPGAGDRERAPSSRREEPAGEERRRPDTLQLWQERERRRQQQ  
QSGAWGAPRKDSLKPGLRAVVGAAAVSTQAMHNGSPKSSASQAGAAAAGQGAPAPAPAS  
QEPLPIAGPATAPAPRPLGSIQRPN SFLFRSSSQSGSPSPD SVLRPRYPQVPDEKDL  
MTQLRQVLESRLQRPLPEDLAELASGVILCQLANQLRPRSVPFIHVPSPAVPKLSALKA  
RKNVESFLEACRKMGP EADLCSPS DLLQGTARGLRTALEAVKRVGGKALPPLWPPSGLG  
GFVVVFYVVLMLLLYV TYTRLLGS

>sp|Q5T3J3|LRIF1\_HUMAN Ligand-dependent nuclear receptor-interacting factor 1 OS=Homo sapiens GN=LRIF1 PE=1 SV=1

MSNNLRRVFLKPAEENSGNASRCVSGCMYQVVQTIGSDGKNLLQLLPIPKSSGNLIPLVQ  
SSVMSDALKGNTGKPVQVTFQTQISSSSTSASVQLPIFQPASSSNYFLTRTVDTSEKGRV  
TSVGTGNFSSSVSKVQSHGVKIDGLTMQTFVAPPSTQKDSFIVVNTQSLPVTVKSPVLP  
SGHHLQIPAHAEVKSVPASSLPSSVQQKILATATTSTSGMVEASQMPTVIYVSPVNTVKN  
VVTKNFQNIYPKPVTEIAKPVILNTTQIPKNVATETQLKGGQHSQAAPVKWIFQDNLQPF  
TPSLVPVKSSNNVASKILKTFVDRKNLGDNTINMPPLSTIDPSGTRSKNMPKDNALVMF  
NGKVYLLAKKGTDLVPSQIDQNSVSPDTPVRKDTLQTVSSSPVTEISREVVNIVLAKSK  
SSQMETKSLSNTQLASMANLRAEKNKVEKPSPSTTNPHMNQSSNYLKQSKTLFTNP IFPV  
GFSTGHNA PRKVTAVIYARKG SVLQSIEKISSSV DATTVT SQQCVFRDQEPKIHNEMAST  
SDKGAQGRNDKKDSQGRSNKALHLKSDAEFKKIFGLTKDLRVCLTRIPDHLTSGEGFDSF  
SSLVKS GTYKETEFMVKEGERKQQNF DKKRKA KTNKKMDHIKKRKTENAYNAI INGEANV  
TGSQLLSSILPTSDVSQHNILTSHSKTRQEKRTEMEYYTHEKQEKGTLSNAAYEQSHFF  
NKNYTEDIFPVT PPELEETIRDEKIRRLKQVLREKEAALEEMRKKMHQK

>sp|Q96JA1|LRIG1\_HUMAN Leucine-rich repeats and immunoglobulin-like domains protein 1 OS=Homo sapiens GN=LRIG1 PE=1 SV=2

MARPVRGGLGAPRRSPCLLLLWLLLLRLEPV TAAAGPRAPCAA ACTCAGDSLDCGGRGLA  
ALPGDLPSWTRSLNLSYNKLS EIDPAGFEDLPNLQEVYLN NNELTAVPSLGAASSHV VSL  
FLQHNKIRSVESQLKAYLSLEVLDSLNNITEVRNTCFPHGPPIKELNLAGNRIGTLEL  
GAFDGLSRSLTLRLSKNRITQLPVRAFKL PRLTQLDLNRNRIRLIEGLTFQGLNSLEVL

KLQRNNISKLTGAFWGLSKMHVLHLEYNLSLEVNSGSLYGLTALHQLHLSNNSIARIHR  
KGWFCQKLHELVLFSNNLTRLDEESLAELSSVLRLSHNSISHIAEGAFKGLRSLRVL  
DLDHNEISGTIEDTSGAFSGLDLSKLTFLGNKIKSVAKRAFSGLEGLEHLNLGGNAIRS  
VQFADFVKMKNLHELHISSDSFLCDCQLKWLPPWLIGRMLQAFVTATCAHPESLKGQSIF  
SVPPEFVCDNFLKPIITQPETTMAMVGKDIRFTCSAASSSSSPMTFAWKKDNEVLTA  
DMENFVHVHAQDGEVMEYTTILHLRQVTFGHEGRYQCVITNHFSGTYSHKARLTVNLPS  
FTKTPHDITIRTTTMARLECAATGHPNPQIAWQKDGDTFPAARERRMHVMPDDDDVFFIT  
DVKIDDAGVYSCTAQNSAGSISANATLTVLETPSLVPLEDRVVSGETVALQCKATGNP  
PPRITWFKGDRPLSLTERHHLTPDNQLLVQNVVAEDAGRYTCEMSNTLGTERAHSQLSV  
LPAAGCRKDGTTVGIFTIAVSSIVLTSLVWVCIIYQTRKKSEEYSVTNTDETVPDPDP  
SYLSSQGTLSDRQETVVRTEGGPQANGHIESNGVCPRDASHFPEPDTHSVACRQPKLCAG  
SAYHKEPWKAMEKAEGTPGPHKMEHGGRVVCSDCNTEVDCYSRGQAFHPQPVSRSDAQPS  
APNGPEPGGSDQEHSPHHQCSRTAAGSCPECQGSLYPSNHRMLTAVKKKPMASLDGKGD  
SSWTLARLYHPDSTELQPASSTSGSPERAEAYLLVSNHGLPKACDASPESTPLTGQLP  
GKQRPVPLLLAPKS

>sp|Q96JM4|LRIQ1\_HUMAN Leucine-rich repeat and IQ domain-containing protein 1 OS=Homo  
sapiens GN=LRRIQ1 PE=2 SV=3

MDDDDAKLKAIEAELDKLSSISLEKEDIESDAKSETQSDSDTDSVELPESVLHCINII  
KNRSKAVEELILQDLETDILSCSYGAVSNNHMLRTGLSTEYEESEQLIKILSEIEKE  
EFMRSKTDCATPDFVPEPSPHDLPMDHVLPPDADINFGYCEVEEKCRQSFEAWQEKQKE  
LEDKEKQTLKAQRDREEKQFQEEEEKRHCWMKQFKVEKKLENIQKQEQDKMNDLYKEE  
KIWKEKFKQHEEYIRNLHLQMEERTRFKDQKEKEKNSLLKQQNNAVKIQAKYKAFVAY  
QKYGPPIKEQIESKKRKAQEWKEKEAKIRQKEEENRKRLEEEQRIKEERKKQKEERKRR  
EKEYEEKKNIVKQEREQLISKEKIIILREDASQQLIISSALKKSGYNNKHLSEDISNDKG  
DIAKNLVDENSKKQEDVLLWLVEESNMKENVDRQITLKESIQVKLKESISSQITLADFKM  
EEKNENLAKKRCSEELVKQERKYENTDNKTELGNSDLKGNLKEQFPLQELKSDAQKEEKI  
MKHVINENTGQKTQIILGHNQEISEVKTNEEQKIIKDNQQKKIQKVEKEEIQEQNGLLYK  
DKDTLVISVKQRSLSLTSSENSKDVRENVILQEKEIYSKSKEIENPKDNAWNSGIVIFNT  
TDTMINIEGKRNDQDYVLGRHAPCEGLSNYNAESSMVSKVNSLKSEIRNISEKCHENAP  
EPDSMTCCVSESTLLYSIEERRLAWIKSFKPWLEIFKQNNQKKIVRRKRPVKCPANMTPA  
LDKLEILRCGPWDTLQQVTTVTFQDLPGCVLSTLAECTNLQFLSLRRCGLTSLHLSNCK  
KLKYIDAQENHIEAIECENLENLCVLLNKNQLTSLHGLDGCTNIQCLELSYNKITRIGY  
SFFLEEKLVDNAGFCHHLGTSTSYLSLAQVWIPTGLCWSWIPITSLTKNSDCNFLISHLY  
WNGGLESLSKNLQQLILDHNQLINTKGLCDTPTIVYLDCSHNHLDVEGVENCGLLQILKL  
QGNYLSELPLENLVLLRELHLDNLSISTVEAFSSYWLPLLQNITISQNSLTKIVPLFHF  
VSLEKLDVSHNCLSDLKSAIKWFDACYSLHELSTGNPLLQETNWRDSLLKVLPAIRILN  
GNILNSNSESRTTEHNQLGSAGFLALCQSQIREFNLLIENYITGKGDVFTLDTAENLCHY  
FKKLMILSTEYRHAHERGDVTITKKDESEAQKNHLAPTNSDSTLQNGVFYSCAREGEPDS  
PDIEKWMDSVSSHSPLSKSAECENMEGRHQELVCQKREDSKASSIPTIRIPFKEVMT  
NSLLRNHQNIPESEKIMAAVVIQSYWRGYLMRRQTHFSTRLHTAATEGLPNSSIKNQITIL  
KKGKRENIVNIRKQREKAAILIQAVWKGFIIRKKLTATALEAIKNEESDEEYREIDLEDFI  
FDEAALEEEWLALDSTRFPSQTLTLLSNQLHWPKIPGNLKWDDTSFNLPSNPAQAWLCNDK  
ENLSSSEHTQFNSRSENKTSSTWPESKTSRKSLLKSEKEKKISEEWGFKDISTAQQMLKR  
AQKMKSKKLKKKIDSTVRLALFKNNENKVS LKSPKMQPRRDGYFEGIEEDPIHKDTTA

NEKLERNREYTYQWLHTQVGVHETTSSRNMKCNHFLPELDPVLNGGRVQLVARLVSRED  
TDLDLFSMTNGSALSVNREKKNQAHRSAGSSSKLWFPSKLI

>sp|A6NIV6|LRIQ4\_HUMAN Leucine-rich repeat and IQ domain-containing protein 4 OS=Homo sapiens GN=LRIQ4 PE=3 SV=2

MSKDIKSVEHSPKIHQRNDPQHVNDRTFFIDASNQSLTAIPLEIFTFTELEEVHLENNQI  
EEIPQEIQRLKNIRVLYLDKNNLRSLCPALGLLSSLESLDLSYNPIFSSSLVVVSFLHAL  
RELRLYQTDLKEIPVVFKNLHHELLGLTG NHLKCLPKEIVNQTKLREIYLKRNQFEVF  
PQELCVLYTLEIIDLDENKIGAIPEEIGHLTGLQKFYMASNNLPVLPASLCQCSQLSVLD  
LSHNLHLSIPKSAELRKMTEIGLSGNRLEKVPRLICRWTS LHLLYLGN TGLHRLRGSFR  
CLVNLRFDLDSQNLHHCPLQICALKNLEVLGLDDNKIGQLPSELGSLSKLKILGLTGNE  
FLSFPEEVLSLASLEKLYIGQDQGFKLTYVPEHIRKLQSLKELYIENNHLEYLPVSLGSM  
PNLEVLDCRHNLKQLPDAICQAQALKELREDNLLTHLPENLDSLNLKVLTLMDNPME  
EPPKEVCAEGNEAIWKYLKENRNRNIMATKIQA WWRGTMVQRGFGKFGELLKPQKKGKTS  
PKDKKGKKDKVGKPGKGGKK

>sp|Q9BTT6|LRRC1\_HUMAN Leucine-rich repeat-containing protein 1 OS=Homo sapiens GN=LRRC1  
PE=1 SV=1

MFHCIPLWRCNRHVESIDKRHCSLVYVP EEIYRYARSLEELLLDANQLRELPEQFFQLVK  
LRKLGLSDNEIQRLPPEIANFMQLVELDVSRNEIPEIPESISFCKALQVADFSGNPLTRL  
PESFPELQNL TCLSVNDISLQSLPENIGNLYNLASLELRENLLTYLPDSL TQLRRLEELD  
LGNNEIYNLPESIGALLHLKDLWLDGNQLSELPQEIGNLKNLLCLDVSENRLERLP EEIS  
GLTSLTDLVISQNLLETIPDGIGLKKLSILKVDQNRLTQLPEAVGECESLTELVL TENQ  
LLTLPKSIGLKKLSNLNADRNLVSLPKEIGGCCSLTVFCVRDNRLTRIPAEVSQATEL  
HVL DVAGNRLLHLPLSLTALKLKALWSDNQSQPLTFQTD TDYTTGEKILTCVLLPQLP  
SEPTCQENLPRCGALENLVNDVSD EAWNERAVNRVSAIRFVEDEKDEEDNETRTLRRAT  
PHPGELKHMKKTVENLRNDMNAAGLDSNKNEVNHAIDRVTTSV

>sp|Q96NW7|LRRC7\_HUMAN Leucine-rich repeat-containing protein 7 OS=Homo sapiens GN=LRRC7  
PE=1 SV=1

MTTKRKIIIGRLVPCRCFRGEEIIISVLDYSHCSLQQVPKEVFNFERTLEELYLDANQIEE  
LPKQLFNCQALRKLSIPDNDLSNLPTTIASLVNLKELDISKNGVQEFPENIKCKCLTII  
EASVNPISKLPDGFTQLNL TQLYLND AFLEFLPANFGRLVKLRILELRENHLKTLPKSM  
HKLAQLERLDLGNNEFGELPEVLDQIQNLRELWMDNNALQVLPGSIGLKMVLVLDMSKN  
RIETVDMDISGCEAEDLLSSNMLQQLPDSIGLLKLTTLKVDDNQLTMLPNTIGNLSL  
LEEFDCSCNELESLPSTIGYLHSLRTLAVDENFLPELPREIGSCKNVTVM SLRSNKLEFL  
PEEIGQMQLRVLNLSDNRLKNLPFSFTKLKELAA LWSDNQSKALIPLQTEAHPETKQR  
VL TNYMFPQQPRGDEDFQSDSDSFNPTLWEEQRQQRMTVAFEFEDKKEDDENAGKVDLS  
CQAPWERGQRGITLQPARLSGDCCTPWARCDQIQDMPVPQNDPQLAWGCISGLQQERSM  
CTPLPVAAQSTTLPSLSGRQVEINLKRYPTYPEDLKNMVKSVQNLVGKPSHGVRVENS  
PTANTEQTVKEKYEHKWPVAPKEITVEDSFVHPANEMRIGELHPSLAETPLYPPKLVLLG  
KDKKESTDESEVDKTHCLNNSVSSGTYS DYSPSQASSGSSNTRVKVGS LQT TAKDAVHNS  
LWGNRIAPSFPQLPSKPLLSQREAVPPGNIPQRPDRLPMSDTFTDNWTDGSHYDNTGFV  
AEETTAENANSNPLSSKSRSTSSHGRRPLIRQDRIVGVPLELEQSTHRHTPETEVPPSN  
PWQNWTRTPSPFEDRTAFPSKLETTPTTSPLPERKEHIKESTEIPSPFSPGVPWEYHDSN  
PNRSLSNVFSQIHCRPESSKGVISISKSTERLSPLMKDIKSNKFKKSQSIDEIDIGTYKV  
YNIPLENYASGSDHLGSHERPDKMLGPEHGMSSMSRSQSVMLDDEMLTYGSSKGPQQQK



ASMTKKVYQFDQSFNPQGSVEVKA EKRI PPPFQHNP EYVQQASKNIAKDLISPRAYRGYP  
PMEQMF SFSQPSVNEDAVVNAQFASQGARAGFLRRADSLVSATEMAMFRRVN EPHLPPT  
DRYGRPPYRGGLDRQSSVTVTESQFLKRNGRYEDEHPSYQEVKAQAGSFVKNLTQRRPL  
SARSYTESYGASQTRPVSARPTMAALLEKIPSDYNLGNYGDKPSDNSDLKTRPTPVKGE  
ESCGKMPADWRQQLLRHIEARRLDRNAAYKHNTVNLGMLPYGGISAMHAGRSMTLNLQTK  
SKFDHQELPLQKTPSQSNILDNGQEDVSPSGQWNPYPLGRRDVPPDTITKKAGSHIQTL  
MGSQSLQHR SREQQPYEGNINKVTIQQFQSPLPIQIPSSQATRGPPGRCLIQTKGQRSM  
DGYPEQFCVRIEKNPGLGFSISGGISGQGNPFKPSDKGIFVTRVQPDGPASNLLQPGDKI  
LQANGHSFVHMEHEKAVLLLSKFQNTVDLVIQRELTV

>sp|Q9BRA0|LSMD1\_HUMAN N-alpha-acetyltransferase 38, NatC auxiliary subunit OS=Homo sapiens GN=NAA38 PE=1 SV=1

MAGAGPTMLLREENGCCSRRQSSSSAGDS DGEREDSAAERARQQLEALLNKTMRIRMTDG  
RTLVGCF LCTDRDCNVILGSAQEFLKPSDSFSAGEPRVLGLAMVPGHHIVSIEVQRESLT  
GPPYL

>sp|Q9HD34|LYRM4\_HUMAN LYR motif-containing protein 4 OS=Homo sapiens GN=LYRM4 PE=1 SV=1

MAASSRAQVLSLYRAMLRESKRFSAYNYRTYAVRRIRDAFRENKNVKDPVEIQTLVNKAK  
RDLGVIRRQVHIGQLYSTDKLIENRDMPT

>sp|Q96S90|LYSM1\_HUMAN LysM and putative peptidoglycan-binding domain-containing protein 1 OS=Homo sapiens GN=LYSMD1 PE=1 SV=1

MASPSRQPPPGSGLLQGSRRARSYGS LVSACS PVRERREHQLEPGDTLAGLALKYGV  
TMEQIKRANRLYTNDISFLKKTLYIPILTEPRDLFNGLDSEEEKDGEEKVHPSNSEVWPHS  
TERKKQETGAGRANGEVLPTPGQETPTPIHDL SASDFLKKLDSQISLSKAAAQKLKKGE  
NGVPGEDAGLHLSSPWWQRAVLGPVPLTRTSRTRTLRDQEDEIFKL

>sp|Q8IV50|LYSM2\_HUMAN LysM and putative peptidoglycan-binding domain-containing protein 2 OS=Homo sapiens GN=LYSMD2 PE=1 SV=1

MADSSPALSLREGGPRAPRPSAPSPPPRSRSGSESEEAE LSLSLARTKTRSYGSTASVRA  
PLGAGVIERHVEHRVRAGDTLQGIALKYGV TMEQIKRANKLFTND CIFLKKTLNIPVISE  
KPLLFNGLNSIDSPENETADNSFSQEEEPV VAGEDLPPPSPQESDVQPVQPEEVSARDFL  
QRLDLQIKLSTQAAKKLKEESRDEESPYATSLYHS

>sp|Q99698|LYST\_HUMAN Lysosomal-trafficking regulator OS=Homo sapiens GN=LYST PE=1 SV=3

MSTDNSNLAREFLTDVNRLCNAVVRQVEAREEEEEETHMATLGQYL VHGRGFLLLTKLNS  
IIDQALTCREELLTLLSLPLVWKIPVQEEKATDFNLPLSADIILTKEKNSSSRSTQE  
KLHLEGSALSSQVSAKVN VFRKSRRQRKITHRYSVRDARKTQLSTSDSEANSDEKGIAMN  
KHRRPHLLHHFLTSFPKQDHPKAKLDRLATKEQTPPDAMALENSREIIPRQGSNTDILSE  
PAALSVISNMNNSPFDLCHVLLSLEKVCKFDVTLNHNSPLAASVVP TLTEFLAGFGDCC  
SLSDNLESRVVSAGWTEEPVALIQRMLFRTVLHLLSVDVSTAEMMPENLRKNL TELLRAA  
LKIRICLEKQDPFAPRQKKT LQEVQEDFVFSKYRHRALLPELLEGVLQILICCLQSAA  
SNPFYFSQAMD LVQEFIQH HGFNL FETAVLQMEWLVL RDGVPPEASEHLKALINSVMKIM  
STVKKVKSEQLHHS MCTRKRHRRC EYSHFMHHHRLSGLLVSAFKNQVSKNPFEETADGD  
VYYP ERCCCI AVCAHQCLRL LQQASLSSTCVQILSGVHNIGICCCMDPKSVIIPLLHAFK  
LPALKNFQQHILNILNKLILDQLGGAEISPKIKKAACNICTVDS DQLAQLEETLQGNLCD  
AELSSSLSSPSYRFQGILPSSGSEDLLWKWDALKAYQNFVFEEDRLHSIQIANHICNLIQ  
KGNIVVQWKLYNYIFNPVLQRGV ELAHCQHLSV TSAQSHVCSHHNQCLPQDVLQIYVKT  
LPILLKSRVIRDLFLSCNGVSQIIELNCLNGIRSHSLKAFETLIISLGEQQKDASVPDID

GIDIEQKELSSVHVGTSFHHQQAYS DSPQSLSK FYAGLKEAYPKRRKTVNQDVHINTINL  
FLCVAFLCVSKEAESDRESANDSEDTSGYDSTASEPLSHMLPCISLES LVLPSPEHMHQA  
ADIWSMCRWIYMLSSVFQKQFYRLGGFRVCHKLIFMIIQKLFRSHKEEQGKKEGDTSVNE  
NQDLNRISQPKRTMKEDLLSLAIKSDPISELGSLKKSADSLGKLELQHISSINVEEVSA  
TEAAPEEAKLFTSQESETSLQSIRLLEALLAICLHGARTSQQKMELELPNQNL SVESILF  
EMRDHLSQSKVIETQLAKPLFDALLRVALGNYSADFEHNDAMTEKSHQSAEELSSQPGDF  
SEEAEQSCCSFKLLVEEEGYEADSESNPEDGETQDDGVDLKSETEGFSASSSPNDLLEN  
LTQGEIIYPEICMLELNLLSASKAKLDVLAHVFE SFLKII RQKEKNVFLLMQQGT VKNLL  
GGFLSILTQDDSDFAQQRVLVDLLVSLMSSRTCSEEL TLLLRI FLEKSPCTKILLGIL  
KIIESDTTMSPSQYLTFPLLHAPNLSNGVSSQKYPGILNSKAMGLRRARVSRSKKEADR  
ESFPHRLSSWHIAPVHLPLLGNQWPHLSEGFVSLWFNVECIHEAESTTEKGKKIKKR  
NKSILPDSSFDGTESDRPEGAEYINPGERLIEEGCIHIIISLGSKALMIQVWADPHNATL  
IFRVCMDSNDDMKAVLLAQVESQENIFLPSKWQHLVLTYLQQPQGKRRIHGKISIWVSGQ  
RKPDVTLDFMLPRKTSLSSDSNKTFMIGHCLSSQEEFLQLAGKWDGNLLLFNGAKVGS  
QEA FYLYACGNHTSVMPCKYGPVNDYSKYINKEILRCEQIRELFMTKKDVIDIGLLIES  
LSVYTTYCPAQYTIYEPVIRLKGQMKTQLSQRPFSSKEVQSILLEPHHLKNLQPT EYKT  
IQGILHEIGGTGIFVFLFARVVELSSCEETQALALRVILSLIKYNQQRVHELENCNGLSM  
IHQVLIKQKCIVGFYILKTLLEGCCGEDIIYMNENGEFKLDVDSNAIIQDVKLEELLLD  
WKIWSKAEQGVWETLLAALEVLIRADHHQMFNIKQLLKAQVVHHFLLTCQVLQEYKEGQ  
LTPMPREVCRSFVKIIAEVLGSPDLELLTIIFNFL LAVHPPTNTYVCHNPTNFYFSLHI  
DGKIFQEKVRSIMYLRHSSSGRSLMSPGFMVISPSGFTASPYEGENSSNIIPQQMAAHM  
LRSRSLPAFPTSSLLTQSQKLTGSLGCSIDRLQNIADTYVATQSKKQNSLGSSDTLKKGK  
EDAFISSCESAKTVCEMEAVLSAQVSVSDVPKGVLFPPVKADHKQLGAEPREDDSPGD  
ESCPRRPDYLGKLASFQRSHSTIASLGLAFPSQNGSAAVGRWPSLVDRNTDDWENFAYSL  
GYEPNYNRTASAHSVTEDCLVPICGLYELLSGVLLILPDV LLEDVMDKLIQADTLLVLV  
NHPSPAIQQGVIKLLDAYFARASKEQKDKFLKNRGFSLLANQLYLHRGTQELLECFIEMF  
FGRHIGLDEEFDLEDVRNMGLFQKWSVIPILGLIETSLYDNILLHNALLLLQILNSCSK  
VADMLLDNGLLYVLCNTVAALNGLEKNIPMSEYKLLACDIQQLFIAVTIHACSSSGSQYF  
RVIEDLIVMLGYLQNSKNKRTQNMAVALQLRVLQAAMEFIRTTANHDS ENLTD SLQSPSA  
PHHAVVQKRKS IAGPRKFPLAQTESLLMKMRSVANDELHVMMQRRMSQENPSQATETELA  
QRLQRLTVLAVNRIIYQEFNSDIIDILRTPENV TQSKTSVFQTEISEENIHHEQSSVFN P  
FQKEIFTYLV EGFKVSIGSSKASGSKQWTKILWSCKETFRMQLGRLLVHILSPAHA AQE  
RKQIFEIVHEPNHQEILRDCLSPSLQHGA KLVLYLSEL IHNHQGELTEEELGTAELLMNA  
LKL CGHKCIPPSASTKADLIKMIKEEQKKYETEEGVNKA AWQKT VNNNQQLFQRLDSKS  
KDISKIAADITQAVSLSQGNERKKVIQHIRGMYKVDLSASRHWQELIQQLTHDRAVWYDP  
IYYPTSWQLDPTEGPNRERRRLQRCYLTIPNKYLLRDRQKSE DVVKPPLSYLFEDKTHSS  
FSSTVKDKAASESIRVNRRCISVAPSRETAGE LLLGKCGMYFVEDNASDTVESSSLQGEL  
EPASF SWTYEEIKEVHKRWWQLRDN AVEIFLTNGRTL LLAFDNTKVRDDVYHNILTNNLP  
NLLEYGNITALTNLWYTGTITNFEY LTHLNKHAGRSFNDLMQYPVFPFILADYVSETLDL  
NDLLIYRNL SKPIAVQYKEKEDRYVD TYKYLEEEYRKGAREDDPMPVPYPYHYGSHYSNS  
GTVLHFLVRMPPTKMFLAYQDQSFDIPDRTFHSTNTTWRLSSFESMTDVKELIPEFFYL  
PEFLVNREGFDFGVRQNGERVNHVNLPPWARNDPRLFIL IHRQALES DYVSQNICQWIDL  
VFGYKQKGKASVQAINVFHPATYFGMDVSAVEDPVQRRAL ETMIKTYGQTPRQLFHMAHV  
SRPGAKLNIEGELPAAVGLLVQFAFRE TREQVKEITYPSPLSWIKGLKWGEYVGSPSAPV

PVVCFSQPHGERFGSLQALPTRAICGLSRNFCLLMTYSKEQGVRSMNSTDIQWSAILSWG  
YADNILRLKSKQSEPPVNFIIQSSQQYQVTSCAWVPDSCQLFTGSKCGVITAYTNRFTSST  
PSEIEMETQIHLYGHTTEITSFLVCKPYSILISVSRDGTCTIIDLNLRLCYVQSLAGHKSP  
VTAVSASETSGDIATVCDASAGGSDLRLWTVNGDLVGHVHCREIICSVAFSNQPEGVSIN  
VIAGGLENGIVRLWSTWDLKPVREITFPKSNKPIISLTFSCDGHHLTYTANSDGTVIAWCR  
KDQQRLKQPMFYSLSSYAAG

>sp|Q9P2E8|MARCH4\_HUMAN E3 ubiquitin-protein ligase MARCH4 OS=Homo sapiens GN=MARCH4 PE=2  
SV=2

MLMPLCGLLWWWCCCSGWYCYGLCAPAPQMLRHQGLLKRCRMLFNDLKVFLLRRPPQA  
PLPMHGDPQPPGLAANNTLPALGAGGWAGWRGPREVVGREPPVPPPPPLPPSSVEDDWG  
GPATEPPASLLSSASSDDFCKEKTEDRYSLGSSLDGSMRTPLCRICFQGPEQGELLSPCR  
CDGSVKCTHQCLIKWISERGCSCELCYYKYHVIAISTKNPLQWQAISLTVIEKVQVAA  
AILGSLFLIASISWLIWSTFSPSARWQRQDLFQICYGMYGFMDVVCIGLIIEGPSVYR  
IFKRWWQAVNQWKVLNYDKTKDLEDQKAGGRNPNRTSSSTQANIPSSSEETAGTPAPEQG  
PAQAAGHPSPGLSHHHAYTILHILSHLRPHEQRSPPGSSRELVMRVTTV

>sp|P10911|MCF2\_HUMAN Proto-oncogene DBL OS=Homo sapiens GN=MCF2 PE=1 SV=3

MAEANPRRGKMRFRRNAASFPGNLHLVVLRLPTSLQRTFTDIGFWFSQEDFMLKLPVVM  
LSSVSDLLTYIDDKQLTPELGGLTQYCHSEWIIFRNAIENFALTVKEMAQMLQSFGTCLA  
ETELPDDIPSIEEILAIRAERYHLLKNDITAVTKEGKILLTNLEVPDTEGAVSSRLECHR  
QISGDWQTINKLLTQVHDMETAFDGFWKHLKMEQYLQLWKFEQDFQQLVTEVEFLLNQ  
QAELADVTGTIAQVKQKIKKLENLDENSQELLSKAQFVILHGHLAANHHYALDLICQRC  
NELRYSIDLVLNEIKAKRIQLSRTFKMHKLLQARQCCDEGECLLANQEIDKFQSKEDAQ  
KALQDIENFLEMALPFINYEPETLQYEFDVILSPELVQMKTITLKLLENIRSIFENQQAG  
FRNLADKHVRPIQFVVPTPENLVTSPTFFSSKQGKKTWRQNSNLKIEVVPDCQEKRSS  
GPSSSLDNGNSLDVLKNHVLNELIQTERVYVRELYTVLLGYRAEMDNPEMFDLMPPLLRN  
KKDILFGNMAEIEYFHNDIFLSSLENCAHAPERVGPCFLERKDDFQMYAKYCQNKPRSET  
IWRKYSECAFFQECQRKLKHLRLDSYLLKPVQRITKYQLLLKELLKYSKDCEGSALLKK  
ALDAMLDLLKSVNDSMHQIAINGYIGNLNELGKMIMQGGFSVWIGHKKGATKMKDLARFK  
PMQRHLFLYEKAIIVFCKRRVESGEGSDRYPSSYFKHCWKMDVEVGITEYVKGDNRKFEIYW  
GEKEEVYIVQASNVDVKMTWLKEIRNILLKQQELLTVKKRKQQDQLTERDKFQISLQQND  
EKQQGAFISTEETELETSTVVEVCEAIASVQAEANTVWTEASQSAEISEEPAEWSNYF  
YPTYDENEENRPLMRPVSEALLY

>sp|Q9BTE3|MCMBP\_HUMAN Mini-chromosome maintenance complex-binding protein OS=Homo  
sapiens GN=MCMBP PE=1 SV=2

MPCGEDWLSHPLGIVQGFFAQNGVNPDWEKKVIEYFKEKLKENNAPKWVPSLNEVPLHYL  
KPNFVKFRMIQDMFDPEFYMGVYETVNQNTKAHVLHFGKYRDVAECGPQQELDLNSPR  
NTTLERQTFYCVVPGESTWVKEAYVNANQARVSPSTSYTPSRHKRSYEDDDMDLQPNK  
QKDQHAGARQAGSVGGLQWCGEPKRLETEASTGQQLNSLNLSSPFDLNFPLPGEKGPACL  
VKVYEDWDCFKNVNDILELYGILSVDPVLSILNNDERDASALLDPMECTDTAEEQRVHSPP  
ASLVPRIHVILAQKLQHINPLPACLNKEESKTCKFVSSFMSLSPVRAELLGFLTHALL  
GDSLAAEYLILHLISTVYTRRDVPLGKFTVNLSGCPRNSTFTEHLYRIIQHLVPASFRL  
QMTIENMNLKFIHPKDYTANRLVSGLLQLPSNTSLVIDETLLEQQQLDTPGVHNVTA  
LSNLITWQKVVDYDFSYHQMEFPCNINVFITSEGRSLLPADCQIHLQPQLIPPNMEEYMNSLL  
SAVLPSVLNKFRIYLTLLRFLEYSISDEITKAVEDDFVEMRKNPQSITADDLHQLLVVA

RCLSLSAGQTTLRERWLRKQLESLRRTRLQQQKCVNGNEL

>sp|Q15013|MD2BP\_HUMAN MAD2L1-binding protein OS=Homo sapiens GN=MAD2L1BP PE=1 SV=1

MAAPEAEVLSSAAVPDLEWYEKSEETHASQIELLETSSSQEPLNASEAFCDPCDMPVVF  
PGPVSEGECCQFTCELLKHIMYQRQQLPLPYEQLKHFYRKPSQAEEMLKKKPRATTEVS  
SRKCQALAELESVLSHLEDFARTLVPRVLILLGGNALSPEFYELDLSLLAPYSVDQS  
LSTAACLRRFLRAIFMADAFSELQAPPLMGTVVMAQGHRNCGEDWFRPKLNYRVPSRGHK  
LTVTLSCGRPSIRTTAWEDYIWFQAPVTFKGFRE

>sp|Q13257|MD2L1\_HUMAN Mitotic spindle assembly checkpoint protein MAD2A OS=Homo sapiens  
GN=MAD2L1 PE=1 SV=1

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDLE  
LIKLYNNVVEQLKDWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDSDAPREKS  
QKAIQDEIRSVIRQITATVTFPLLEVSCSFDLLIYTDKDLVPEKWEESGPQFITNSEE  
VRLRSFTTTIHKVNSMVAYKIPVND

>sp|Q5I0G3|MDH1B\_HUMAN Putative malate dehydrogenase 1B OS=Homo sapiens GN=MDH1B PE=2  
SV=1

MAKFVIAGRADCPYYAKTELVADYLQKNLPDFRIHKITQRPEVWEDWLKDVCEKNKWSHK  
NSPIIWRELLDRGGKGLLLGGYNEFLEHAQLYYDVTSSMTTELMMVIAQENLGAHIEKEQ  
EEEALKTCINPLQVWITSASAPACYNLIPILTSGEVFGMHTEISITLFDNKQAEHLKSL  
VVETQDLASPVLRVSISCTKVEEAFRQAHVIVVLDSTNKEVFTLEDCLRSRVPLCRLYG  
YLIEKNAHESVRVIVGGRTFVNLTQVLLMRYAPRIAHNIIAVALGVEGEAKAILARKLKT  
APSYIKDVIWGNISGNNYVDLRKTQVRYESAIWGPLHYSRPVNLIFDSEWVKREFVA  
ILKNLTTTGRQFGGILAAHSIATTLKYWYHGSPPGEIVSLGILSEGQFGIPKGIVFSMPV  
KFENGTWVVLTDLKDVEISEQIMTRMTSDLIQEKLVALGDKIHFQPYQSGHKDLVPDEEK  
NLAMSDAAEFNPQIPQTTFEKPKSLEFLNEFEGKTVES

>sp|P40926|MDHM\_HUMAN Malate dehydrogenase, mitochondrial OS=Homo sapiens GN=MDH2 PE=1  
SV=3

MLSALARPASAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTYDIAH  
TPGVAADLSHIETKAAVKGYLGPQLPDCLKGCDVVVIPAGVPRKPGMTRDDLFTNATI  
VATLTAACAQHCPEAMICVIANPVNSTIPITAEVFKKHGVNPNKIFGVTTLDIVRANTF  
VAELKGLDPARVNPVIGGHAGKTIIPILISQCTPKVDFPQDQLTALTGRIQEAGTEVVKA  
KAGAGSATLSMAYAGARFVFSLVDMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIE  
KNLGIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLK

>sp|POC7V9|ME15P\_HUMAN Putative methyltransferase-like protein 15P1 OS=Homo sapiens  
GN=METTL15P1 PE=5 SV=1

MLRYPYFCRMKECLSCWLESGIPNLGVWPKRIHTTAEKYREYEAREQTDQTQVQELHRS  
QDRDFETMAKLHIPVMVDEVHCLSPQKGQIFLDMTFGSGGHTKAILQKESDIVLYALDR  
DPTAYALAEHLSELYPKQIRAMLGQFSQAEALLMKAGVQPGTFDGVLMDLGCSSMLDTP  
ERGSSLRKDGPLDIRMDGGRNISSLCYLYTERLTTAIYLYCHQDFPGSSHICEQ

>sp|Q13503|MED21\_HUMAN Mediator of RNA polymerase II transcription subunit 21 OS=Homo  
sapiens GN=MED21 PE=1 SV=1

MADRLTQLQDAVNSLADQFCNAIGVLQQCGPPASFNNIQTAINKDQPANPTEEYAQLFAA  
LIARTAKDIDVLIDSLPSEESTAALQAASLYKLEENHEAATCLEDVVYRGDMLEKIQS  
ALADIAQSQLKTRSGTHSQLPDS

>sp|Q15528|MED22\_HUMAN Mediator of RNA polymerase II transcription subunit 22 OS=Homo sapiens GN=MED22 PE=1 SV=2

MAQQRALPQSKETLLQSYNKRLLKDDIKSIMDNFTEIIKTAKIEDETQVSRATQGEQDNYE  
MHVRAANIVRAGESLMKLVSDLKQFLILNDFPSVNEAIDQRNQLRTLQEEDRKLITLR  
DEISIDLYEEEEYYSSSSSLCEANDLPLCEAYGRLDLTDSDGLSAPLLASPEPSAGP  
LQVAAPAHSHAGGPGPTEHA

>sp|Q9H204|MED28\_HUMAN Mediator of RNA polymerase II transcription subunit 28 OS=Homo sapiens GN=MED28 PE=1 SV=1

MAAPLGGMFSGQPPGPPQAPPGLPGQASLLQAAPGAPRPSSTLVDELESSFEACFASLV  
SQDYVNGTDQEEIRTGVDQCIQKFLDIARQTECFLLQKRLQLSVQKPEQVIKEDVSELRN  
ELQRKDALVQKHLTKLRHWQQVLEDINVQHKKPADIPQGSLEYEQASANIPAPLKPT

>sp|Q43513|MED7\_HUMAN Mediator of RNA polymerase II transcription subunit 7 OS=Homo sapiens GN=MED7 PE=1 SV=1

MGEPQQVSALPPPPMQYIKEYTDENIQEGLAPKPPPIKDSYMMFGNQFQCDDLIIRPLE  
SQGIERLHPMQFDHKKELRKLNMSILINFLDLLILRSPGSIKREEKLEDLKLFFVHVH  
HLINERYPHQARETLRVMMEVQKRQRLTAERFQKHLERVIEMIQNCLASLPDDLPHSEA  
GMRVKTEPMDADDSNNCTGQNEHQRENSGHRRDQIEKDAALCVLIDEMNERP

>sp|Q8N4P3|MESH1\_HUMAN Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1 OS=Homo sapiens GN=HDDC3 PE=1 SV=3

MGSEAAQLLEAADFAARKHRQRRKDPEGTPYINHPIGVARILTHEAGITDIVVLQAALL  
HDTVEDTDTTLDEVELHFGAQVRRLVEEVTDDKTLPKLERKRLQVEQAPHSSPGAKLVKL  
ADKLYNLRDLNRCTPEGWSEHRVQEYFEWAAQVVKGLQGTNRQLEEALKHLFKQRGLTI

>sp|Q6UX53|MET7B\_HUMAN Methyltransferase-like protein 7B OS=Homo sapiens GN=METTL7B PE=1 SV=2

MDILVPLLQLLVLLLTPLPLHMLLGCWQPLCKSYFPYLMAVLTPKSNRKMESKKRELFS  
QIKGLTGASGKVALLELGCCTGANFQFYPPGCRVTCLDPNPHFEKFLTKSMAENRHLQYE  
RFVVPAGEDMRQLADGSMDVVVCTLVLCVQSPRKVLQEVRRVLRPGGVLFWEHVAEPY  
GSWAFMWQVFEPTWKHIGDGCCLTRETWKDLENAQFSEIQMERQPPPLKWLPVGPHING  
KAVK

>sp|Q8N3J2|METL4\_HUMAN Methyltransferase-like protein 4 OS=Homo sapiens GN=METTL4 PE=2 SV=3

MSVVHQLSAGWLLDHLFSINKINYQLHQHHEPCCRKKEFTTSVHFESLQMDSVSSSGVCA  
AFIASDSSTKPENDDGGNYEMFTRKFVFRPELFDVTKPYITPAVHKECQQSNEKEDLMNG  
VKKEISISIIIGKKRRCVVFNGQELDAMEYHTKIRELILDGSLQLIQEGLKSGFLYPLFE  
KQDKGSKPITPLDACSLSELCEMAKHLPSLNEMEHQTLQVVEEDTSVTEQDLFLRVVEN  
NSSFTKVITLMGQKYLLPPKSSFLSDISCMQPLLNYRKTDFDVIDPPWQNKSVKRSNR  
YSYLSPLQIQIPIPKLAAPNCLLVTVWVTRQKHLRFIKEELYPSWSVEVVAEHWVKIT  
NSGEFVFPLDSPHKPYEGLILGRVQEKALPLRNADVNVLPIDHKLIVSVPCTLHSHK  
PPLAEVLKDYIKPDGEYLELFARNLQPGWTSWGNEVLKFQHVDFIIVESGS

>sp|Q641Q3|METRL\_HUMAN Meteorin-like protein OS=Homo sapiens GN=METRNL PE=2 SV=1

MRGAAARAAWGRAGQPWRPPAPGPPPPPLPLLLLLLAGLLGGAGAQYSSDRCSWKGSGLT  
HEAHRKEVEQVYLCAAGAVEWMYPTGALIVNLRPNTFSPARHLTVCI RSFTDSSGANIY  
LEKTGELRLLVPDGDGRPRGVQCQGLEQGGLFVEATPQQDIGRRTTGfQYELVRRHRASD  
LHELAPCRPCSDTEVLLAVCTSDFAVRGSIQQVTHEPERQDSAIHLRVSRLYRQKSRVF

EPVPEGDGHWQGRVRTLLECGVRPGHGDFLFTGHMHFGEARLGCAPRFKDFQRMRYDAQE  
RGLNPCEVGTD

>sp|Q5U5Q3|MEX3C\_HUMAN RNA-binding E3 ubiquitin-protein ligase MEX3C OS=Homo sapiens  
GN=MEX3C PE=1 SV=3

MPSSGSSAALALAAAPAPLPQPPPPPPPPPLPPSSGGPELEGDGLLLRERLAALGLDDP  
SPAEPGAPALRAPAAAQGGARRAAELSPEERAPPGRPGAPEAAELEEEDEEEGEEAEL  
DGDLLLLLEEEEEEEDRSSLLLLSPPAATASQTQQIPGGSLSVLLPAARFDAREAAAA  
AAAAGVLYGGDDAQGMAAMLSHAYGPGGCGAAAAALNGEQALLRRKSVNTTECPVPS  
SEHVAEIVGRQGCKIKALRAKTNTYIKTPVRGEEPIFVVTGRKEDVAMAKREILSAAEHF  
SMIRASRNKNGPALGGLSCSPNLPGQTTVQVRVPYRVVGLVVGPKGATIKRIQQQTHTYI  
VTPSRDKPEVFEVTGMPENVDRAREEIEMHIAMRTGNYIELNEENDFHNGTDVSEGGT  
LGSAWLSSNPVPPSRARMISNYRNDSSSSLSGSTDSYFGSNRLADFSPTSPFSTGNFWF  
GDTLPVSGEDLAVDSPAFDSLPTSAQTIWTPFEPVNPLSGFGSDPSGNMKTQRRGSQPS  
TPRLSPTFPESIEHPLARRVRSDPPSTGNHVGLPIYIPAFSNGTNSYSSSSNGGSTSSSP  
ESRRKHDCVICFENEVIAALVPCGHNLFCECANKICEKTRPSCPVCQTAVTQAIQIHS

>sp|Q86XN8|MEX3D\_HUMAN RNA-binding protein MEX3D OS=Homo sapiens GN=MEX3D PE=1 SV=3

MPSSLGQPDGGGGGGGGGGVGAAGEDPGPGPAPPPEGAQEAAAPAPRPPPEPDDAAAAALR  
LALDQLSALGLGGAGDTDEEGAAGDGAAGGADGGAPEPVPPDGPEAGAPPTLAPAVA  
PGSLPLLDPNASPPPPPPRSPDPVFAGFAPHPAALGPPTLLADQMSVIGSRKKSVMNT  
ECVPVPSSEHVAEIVGRQGCKIKALRAKTNTYIKTPVRGEEPVFIVTGRKEDVEMAKREI  
LSAAEHFSIIIRATRSKAGGLPGAAQGPPNLPGQTTIQVRVPYRVVGLVVGPKGATIKRIQ  
QRTHTYIVTPGRDKPEVFAVTGMPENVDRAREEIEAHITLRTGAFTDAGPDSDFHANGTD  
VCLDLLGAAASLWAKTPNQRRPPTATAGLRGDTALGAPSAPEAFYAGSRGGPSVPDPGP  
ASPYSGSGNGGFAFGAEGPGAPVGTAAPDDCDFGDFDFLALDLTPAAATIWAPFERAA  
PLPAFSGCSTVNGAPGPPAAGARRSSGAGTPRHSPTLPEPGGLRLELPLSRRGAPDPVGA  
LSWRPPQGPFVSFPGGAFFSTATSLPSSPAAAACAPLDSGASENSRKPPSASSAPALAREC  
VVCAEGEVMAALVPCGHNLFCEMDCAVRICGKSEPECPACRTPATQAIHIFS

>sp|Q14CX5|MF13A\_HUMAN Transmembrane protein 180 OS=Homo sapiens GN=MFSD13A PE=2 SV=1

MGLGQPQAWLLGLPTAVVYGSALFTTILHNVFLLYYVDTFVSVYKINKMAFWVGETVFL  
LWNSLNDPLFGWLSDRQFLSSQPRSGAGLSSRAVVLARVQALGWHGPLLALSFLAFWVPW  
APAGLQFLLCLCLYDGLTLVDLHHHALLADLALSADHRTLNFYCSLFSAAAGSLSVFAS  
YAFWNKEDFSSFRACVTLAVSSGLGFLGATQLRRRVEAARKDPGCSGLVVDGLCGEE  
LLVGSEEDSITLGRYLRLARHRNFLWFVMDLVQVFHCHFNSNFFPLFLEHLLSDHIS  
LSTGSILLGLSYVAPHLNNLYFLSLCRRWGVIYAVVRGLFLLKLGLSLLMLLAGPDHLSLL  
CLFIASNRVFTEGTCKLLTLVVTDLVDEDLVLNHRKQAASALLFGMVALVTKPGQTFAPL  
LGTWLLCFYTGHDLFQQSLITPVGSAHPWPEPPAPAPAQAPTLRQGC FYLLVLPITCAL  
LQLFTWSQFTLHGRRLHMKVKAQRQNLSQAQTL DVK MV

>sp|Q5SR56|MF14B\_HUMAN Hippocampus abundant transcript-like protein 1 OS=Homo sapiens  
GN=MFSD14B PE=2 SV=3

MSVEPPPELEEKAASEPEAGAMPEKRAGAQAAGSTWLQGFGRPSVYHAAIVIFLEFFAWG  
LLTTPMLTVLHETFSQHTFLMNGLIQGVKGLLSFLSAPLIGALSDVWGRKPFLGTVFFT  
CFPIPLMRISPWWYFAMISVSGVFSVTFSVIFAYVADVTQEHERSTAYGWSATFAASLV  
SSPAIGAYLSASYGDSLVLVATVVALLDICFILVAVPESLPEKMRPVSWGAQISWKQAD  
PFASLKKVGKDVLLICITVFLSYLPEAGQYSSFFLYLRQVIGFGSVKIAAFIAMVGIL

SIVAQTAFLSILMRSLGNKNTVLLGLGFQMLQLAWYGFSGQAWMMWAAGTVAAMSSITFP  
AISALVSRNAESDQQGVAQGIITGIRGLCNGLPALYGFIFYMFHVELTELGPKLNSNNV  
PLQGAVIPGPPFLFGACIVLMSFLVALFIPEYSKASGVQKHSNSSSSGSLTNTPERGSD  
IEPLLQDSSIWELSSFEETPGNQCTEL

>sp|P55081|MFAP1\_HUMAN Microfibrillar-associated protein 1 OS=Homo sapiens GN=MFAP1 PE=1 SV=2

MSVPSALMKQPPIQSTAGAVPVRNEKGEISMEKVKVKRYVSGKRPDYAPMESSDEEDEF  
QFIKKAKEQEAPEEQEEDSSSDPRLRLQNRISEDVEERLARHRKIVEPEVVGESDSEV  
EGDAWRMEREDSSEEEEEIDDEEIERRRGMMRQAQERKNEEMEVMEVEDEGRSGEES  
SESEYEEYTDSEDEMEPRLKPVFIRKKDRVTVQEREAEALKQKELEQEAKRMAEERRKYT  
LKIVVEETKKELEENKRSALDALNTDDENDEEYEAWKVRELKRIKRDREDREALEKE  
KAEIERMRNLTEEERRAELRANGKVIITNKAVKGKYKFLQKYHRAFFMDEDEEVYKRDF  
SAPTLEDHFNKTIILPKVMQVKNFGRSGRTKYTHLVDQDTSFDSAAGQESAQNTKFFKQK  
AAGVRDVFERPSAKKRKT

>sp|Q95140|MFN2\_HUMAN Mitofusin-2 OS=Homo sapiens GN=MFN2 PE=1 SV=3

MSLLFSRCNSIVTVKKNKRHMAEVNASPLKHFVTAKKINGIFEQLGAYIQESATFLED  
YRNAELDPVTTEEQVLDVKGYSKVRGISEVLARRHMKVAFFGRTSNGKSTVINAMLWDK  
VLPSGIGHTTNCFLRVEGTDGHEAFLTEGSEEKRSKATVNQLAHALHQDKQLHAGSLVS  
VMWPNSKCPLLKDDLVLMDSPGIDVTTELDSWIDKFCLDADVFLVANSESTLMQTEKHF  
FHKVSERLSRPNIFILNRRWDASASEPEYMEEVRRQHMERCTSLVDELGVVDRSQAGDR  
IFFVSAKEVLNARIQKAQGMPEGGALAEQFQVRMFEFQNFERRFEECISQSAVKTKFEQ  
HTVRAKQIAEAVRLIMDSLHMAAREQQVYCEEMREERQDRLKFIDKQLELLAQDYKLRIK  
QITEEVERQVSTAMAEIIRRLSVLVDDYQMDFHPSPVVLKVYNELHRHIEEGLGRNMSD  
RCSTAITNSLQTMQDMIDGLKPLPVSVRSQIDMLVPRQCFSLNYDLNCDKLCADFQED  
IEFHSLGWTMLVNRFLGPKNSRRALMGYNDQVQRPILPTANPSMPPLPQGSLTQEEFM  
VSMVTGLASLTSRTSMGILVGGVVWKAAGWRLIALSFGLYGLLYVYERLTWTTKAKERA  
FKRQFVEHASEKLQLVISYTGNSCSHQVQQLSGTFAHLCQQVDVTRENLEQEIAMNKK  
IEVLDSLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR

>sp|Q9NYZ2|MFRN1\_HUMAN Mitoferrin-1 OS=Homo sapiens GN=SLC25A37 PE=2 SV=2

MELRSGSVGSQAVARRMDGDSRDGGGKDATGSEDYENLPTSASVSTHMTAGAMAGILEH  
SVMYPVDSVKTRMQSLSPDKAQYTSIYGALKKIMRTEGFWRPLRGVNMIMGAGPAHAM  
YFACYENMKRTLNDVFHHQGNSHLANGIAGSMATLLHDAVMNPAEVVKQRLQMYNSQHRS  
AISCIRTVWRTEGLGAFYRSYTTQLTMNIPFQSIHFITYEFLQEQVNPHTYNPQSHIIS  
GGLAGALAAAATPLDVCKTLLNTQENVALSLANISGRLSGMANAFRTVYQLNGLAGYFK  
GIQARVIYQMPSTAISWSVYEFFKYFLTKRQLENRAPY

>sp|Q96A46|MFRN2\_HUMAN Mitoferrin-2 OS=Homo sapiens GN=SLC25A28 PE=2 SV=1

MELEGRGAGGVAGGPAAGPGRSPGESALLDGLQRGVGRGAGGGEAGACRPPVRQDPDSG  
PDYEALPAGATVTTHMVAGAVAGILEHCVMPIDCVKTRMQSLQPDPAARYRNVLEALWR  
IIRTEGLWRPMLNVTATGAGPAHALYFACYEKLKKTLSDV IHPGGNSHIANGAAGCVA  
TLLHDAAMNPAEVVKQRMQMYNSPYHRVTDVRAVWQNEGAGAFYRSYTTQLTMNVPFQA  
IHFMTYEFLQEHFNPQRRYNPSSHVLSGACAGAVAAAATPLDVCKTLLNTQESLALNSH  
ITGHITGMASAFRTVYQVGGVTAYFRGVQARVIYQIPSTAIAWSVYEFFKYLITKRQEEW  
RAGK

>sp|Q96ES6|MFSD3\_HUMAN Major facilitator superfamily domain-containing protein 3 OS=Homo sapiens GN=MFSD3 PE=2 SV=1

MRGKLLPLAGLYLVQGLPYGLQSGLLPVLLRAGGLSLTRVGLAKVLYAPWLLKLAWAPLV  
DAQGSARAWVTRSTAGLGLVCGLLAGLPPPGAGQAGLPAAVAGLLLLLNLGAAMQDVALD  
ALAVQLEPAELGPGNTVQVVAYKLGAALAGGALLALLPTFSWPQLFLLLAATYWLAAAL  
AWAAPALRRLPQQPPSEQRPHTAHLLRDVLAVPGTVWTAGFVLTYKLGEQGASSLFPLLL  
LDHGVSAPELGLWNGVGAVVCSIAGSSLGGTLLAKHWKLLPLRSVLRFRLLGGLACQTAL  
VFHLDTLGASMDAGTILRGSALLSLCLQHFLGGLVTTVTFTGMMRCSQLAPRALQATHYS  
LLATLELLGKLLGLTAGGLADGLGPHPCFLLLLILSAFPVLYLDLAPSTFL

>sp|Q6ZSS7|MFSD6\_HUMAN Major facilitator superfamily domain-containing protein 6 OS=Homo sapiens GN=MFSD6 PE=1 SV=2

MADDKVAILTDDEEEQKRKYVLADPFNGISREPEPPSNETPSSTETSAIPEEEIDWIEKH  
CVKINNDLLISKVFYFFFYSAAGSLYPLLPVYKQLGMSPSQSGLLVGIRYFIEFCSAPF  
WGVVADRFKKGKIVLLFSLLCWVLFNLGIGFVKPATLRCVPKIRPTTHPTNASHQLTILP  
TNSSFTSFLTISPKMREKRNLLETRLNVSDTVTLPTAPNMNSEPTLQPQTGEITNRMMDL  
TLNSSSTATPVSPGSVTKETTTIVTTTSLPSDQVMLVYDQQEVEAIFLVILVVVIIGEF  
FSASSVTIVDTVTLQYLGKHRDRYGLQRMWGSGLGWGLAMLSVGIGIDYTHIEVLIDGKGC  
KPPEYRNYQIVFIVFVGLMTMALIVATQFRFRYNHFKNDDSKGKEVEIPQVERN NSTESS  
EETPTTTSHSQAFNFWDLIKLLCSVQYGSVLFVAWFMGFGYGFVFTFLYWHLEDLNGTTT  
LFGVCSVLSHVSELTAYFFSHKLIELIGHIRVLYIGLACNTARYIYISYLENAWTVLPME  
VLQGVTHAAIWAACISYLSAAVPPELRTSAQGILQGLHLGLGRGCGAMIGGVLVNYFGAA  
ATFRGIGMACLVILLFALIQWLAVPDEEEDKTMLAERIPVPSSPVP IATIDL VQQQTED  
VMPRIEPRLPKKTKHQEEQEDVNKPAWGVSSSPWVTFVYALYQIKEMMQLTRDNRASEI  
QPLQGTNENRENSPAGRAQVPVPCETHSDPSRNQPSPDAAASQTQTSPAHPVSDPCTEES  
EQQAQLAAGGH

>sp|P26572|MGAT1\_HUMAN Alpha-1, 3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase OS=Homo sapiens GN=MGAT1 PE=1 SV=2

MLKKQSAGLVWGAIFVAWNALLLFFWTRPAPGRPPSVSALDGPASLTREVIRLAQD  
AEVELERQRGLLQIGDALSSQGRVPTAAPPAQPRVPVTPAPAVIPILVIACDRSTVRR  
CLDKLLHYRPSAELFPIIVSQDCGHEETAQAIASYGS AVTHIRQPDLSIAVPPDHRKFQ  
GYK IARHYRWALGQVFRQFRFPAAVVEDDLEVPDFFEYFRATYPLLKADPSLWCVSA  
WNDNGKEQMVDASRPELLYRTDFPGLGWLLLAELWAELEPKWKAFWDDWMRRPEQRQG  
RACIRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVHFTQLDLSYLQREAYDRDFLA  
RVYGAPQLQVEKVRTNDRKELGEVRVQYTGDRDSFKAKALGVMDLKS GVP RAGYRGIV  
TFQFRGRRVHLAPPLTWEGYDPSWN

>sp|Q10469|MGAT2\_HUMAN Alpha-1, 6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase OS=Homo sapiens GN=MGAT2 PE=1 SV=1

MRFRIYKRKVLILTLVVAACGFVLWSSNGRQRKNEALAPLLDAEPARGAGGRGDHPSV  
AVGIRRVSNVSAASLVPAVPQPEADNLTLYRSLVYQLNFDQTLRNVDKAGTWAPRELVL  
VVQVHNRPEYLRLLLDLSLRKAQGIDNVLVIFSHDFWSTEINQLIAGVNFPCVLQVFFPFS  
IQLYPNEFPGSDPRDCPRDLPKNAALKLGCINAEYPDSFGHYREAKFSQTKHHWWKLHF  
VWERVKILRDYAGLILFLEEDHYLAPDFYHVFKMMWKLKQCECDVLSLGTYSASRSF  
YGMADKVDVKTWKSTEHNMGLALTRNAYQKLI ECTDTFCTYDDYNWDWTLQYLTVSCLPK  
FWKVLVPQIPRIFHAGDCGMHHKKTCPSTQSAQIESLLNNNKQYMPETLTISEKFTVV



AISPPRKNGGWDIRDHELCKSYRRLQ

>sp|000462|MANBA\_HUMAN Beta-mannosidase OS=Homo sapiens GN=MANBA PE=2 SV=3

MRLHLLLLLALCGAGTTAAELSYSLRGNWSCICNGSLELPGAVPGCVHSALFQQGLIQD  
SYRFRNDLNLRWVSLDNWTYSKEFKIPFEISKWQKVNLILEGVDTVSKILFNEVTIGETD  
NMFNRYSFEDITNVVRDVNSIELRFQSAVLAAQQSKAHTRYQVPPDCPPLVQKGECHVNF  
VRKEQCSFSWDWGPSFPTQGIWKDVRIEAYNICHNLNYFTFSPIYDKSAQEWNLEIESTFD  
VVSSKPVGGQVIVAIPKLQTQQTYSIELQPGKRIVELFVNISKNITVETWWPHGHGNQTG  
YNMTVLFELDGGLNIEKSAKVYFRTVELIEEPIKGSPLSFYFKINGFPIFLKGSNWIPA  
DSFQDRVTSSELLRLLLQSVVDANMNTLRVWGGGIYEQDEFYELCDELGIMVWQDFMFACA  
LYPTDQGFLDSVTAEVAYQIKRLKSHPSIIWSGNNENEEALMMNWHISFTDRPIYIKD  
YVTLYVKNIRELVLAGDKSRPFITSSPTNGAETVAEAWVSQNPNSNYFGDVHFYDYISDC  
WNWKFVPKARFASEYGYQSWPSFSTLEKVSSTEDWSFNKFSLHRQHHEGGNKQMLYQAG  
LHFKLPQSTDPLRTFKDTIYLTQVMQAQCVKTETEFYRRSRSEIVDQQGHTMGALYWQLN  
DIWQAPSWASLEYGGKWKMLHYFAQNFFAPLLPVGFENENTFYIYGVSDLHSDYSMTLSV  
RVHTWSSLEPVCSRTERFVMKGGEAVCLYEPPVSELLRRCGNCTRESCVVSFYLSADHE  
LLSPTNYHFLSSPKEAVGLCKAQITAIISQQGDIFVFDLETSAVAPFVWLDVGSIPGRFS  
DNGFLMTEKTRTILFYPWEPTSKNELEQSFHVTSLTDIY

>sp|Q9NQG1|MANBL\_HUMAN Protein MANBAL OS=Homo sapiens GN=MANBAL PE=1 SV=1

MASDLDFSPPEVPEPTFLENLLRYGLFLGAIFQLICVLAIIVPIPKSHEAEAEPSEPRSA  
EVTRKPKAAVPSVNKRPKKETKKKR

>sp|Q5VSG8|MANEL\_HUMAN Glycoprotein endo-alpha-1,2-mannosidase-like protein OS=Homo sapiens GN=MANEAL PE=2 SV=1

MARRRRRACIALFLVLLFAFGTLMGLRTLKAPDGLPALGPGLLAPFERRPEGAPAPAAR  
APAAPAAPPPPPPPRTADPGSGPAPAEAPAPVQSLRVYSDLHAFYYSWYGSPRREG  
HYIHWDHVMVPHWDPKISASYPRGRHSPDDLGSFYPELGPYSSRDPEVLREHMTQLKE  
AAIGVLVLSWYPPGMADDNGEPSDDLVPAILDTHAQYSIQVAFHIQPYKGRDDITVHDNI  
KYIIDTYGSHGAFYRYKNSMGKSLPLFYIYDSYLTSPAWAHLTPNGPHSIRNTPYDGV  
FIALLVEEGHTHDILAAGFDGMYTYFASNGFSFGSSHQNWKAVKNFCDANNLMFIPSVGP  
GYIDTSIRPWNHNTRNRVNGKYYETALQAALTVRPEIVSITSFNEWHEGTQIEKAIPKK  
TPTRLYLDPHQPPLYLELTRRWAEHFIKEKEQWLM

>sp|P55145|MANF\_HUMAN Mesencephalic astrocyte-derived neurotrophic factor OS=Homo sapiens GN=MANF PE=1 SV=3

MRRMWATQGLAVALALSVLPGSRALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIENEL  
IKFCREARGKENRLCYIGATDDAATKIINEVSKPLAHHIPVEKICEKLKKKDSQICELK  
YDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAPKAASART  
DL

>sp|P23368|MAOM\_HUMAN NAD-dependent malic enzyme, mitochondrial OS=Homo sapiens GN=ME2 PE=1 SV=1

MLSRLRVVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPKiet  
QDIQALRFHRNLKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTVGLAC  
SQYGHIFRRPKGLFISISDRGHVRSIVDNWPENHVKAVVVDGERILGLDGLGVYGMGIP  
VGKLClyTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKRDRtQQYDDLIDeFMK  
AITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAVALAGLLAAQKVISK  
PISEHKILFLGAGEAALGIANLIVMSMVENGLSEQAQKKIWMFDKYGLLVKGRKAKIDS

YQEPFTHSAPESIPDTFEDAVNILKPSTIIIGVAGAGRLFTPDVIRAMASINERPVIFALS  
NPTAQAECTAEEAYLTTEGRCLFASGSPFGPVKLT DGRVFTPGQGNNVYIFPGVALAVIL  
CNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEVSINIAIKVTEYLYANKMA  
FRYPEPEDKAKYVKERTWRSEYDSLLPDVYEWPESSPPVITE

>sp|Q16798|MAON\_HUMAN NADP-dependent malic enzyme, mitochondrial OS=Homo sapiens GN=ME3  
PE=2 SV=2

MGAALGTGTRLAPWPGRACGALPRWTPTAPAQGCHSKPGPARPVPLKKRGYDVTRNPHLN  
KGMAFTLEERLQLGIHGLIPPCFLSQDVQLLRIMRYERQQSDLDKYIILMTLQDRNEKL  
FYRVLTS DVEKFMPIVYTPTVGLACQHYGLTFRRPRGLFITIHDKGHLATMLNSWPEDNI  
KAVVVT DGERILGLDGLGCYGMGIPVGKLALYTACGGVNPQQCLPVLLDVGTNNEELLRD  
PLYIGLKHQRVHGKAYDDLDEFMQAVTDKFGINCLIQFEDFANANAFRLLNKYRNKYCM  
FNDDIQGTASVAVAGILAALRITKNKLSNHVVFVQGAGEAAMGIAHLLVMALEKEGVPKA  
EATRKIWMVDSKGLIVKGRSHLNHEKEMFAQDHPEVNSLEEVVRLVKPTAIIGVAAIAGA  
FTEQILRDMASFHERPIIFALSNTSKAECTAEKCYRVTEGRGIFASGSPFKSVTLEDGK  
TFIPGQGNAYVFPGVALGVIAGGIRHIPDEIFLLTAEQIAQEVSEQHLSQGRLYPPLST  
IRDVSLRIAIAKVL DYAYKHNLASYYPEPKDKEAFVRSLVYTPDYDSFTLDSYTWPK EAMN  
VQTV

>sp|Q6UB28|MAP12\_HUMAN Methionine aminopeptidase 1D, mitochondrial OS=Homo sapiens  
GN=METAP1D PE=1 SV=1

MAAPSGVHLLVRRGSHRIFSSPLNHIYLHKQSSSQRRNFFRRQRDISHSIVLPAAVSS  
AHPVPKHIIKKPDYVTGIVPDWGSIEVKNE DQIQGLHQACQLARHVLLLAGKSLKVDMT  
TEEIDALVHREIIISHNAYSPLGYGGFPKSVCTSVNNVLCHGIPDSRPLQDGDIIINIDVT  
VYYNGYHGDTSETFLVGNVDECGKKLVEVARRCRDEAIAACRAGAPFSVIGNTISHITHQ  
NGFQVCPHFVGHGIGSYFHGHPEIWHHANDSDLPMEEGMAFTIEPIITEGSPEFKVLEDA  
WTVVSLDNQRS AQFEHTVLITSRGAQILTKLPHEA

>sp|P50579|MAP2\_HUMAN Methionine aminopeptidase 2 OS=Homo sapiens GN=METAP2 PE=1 SV=1

MAGVEEVAASGSHLNGDLDPDDREEGAASTAEAAKKRRRKKKSKGPSAAGEQEPDKES  
GASVDEVARQLERSALEDKERDEDEDGDGDGDGATGKKKKKKKKRGPKVQTDPPSPVI  
CDLYPNGVFPGKQECEYPPTQDGRTAAWRTTSEEKKALDQASEEIW NDFREAAEAHRQVR  
KYVMSWIKPGMTMIEICEKLEDCSRKLIKENGLNAGLAFPTGCSLNNCAAHYTPNAGDTT  
VLQYDDICKIDFGTHISGRIIDCAFTVTFNPKYDTLLKAVKDANTGTIKCAGIDVRLCDV  
GEAIEVMESYEVEIDGKTYQVKPIRNLNGHSIGQYRIHAGKTVPIVKGG EATRMEEGEV  
YAIETFGSTGKGVVHDDMECSHYMKNFVDVGHVPIRLPRTKHLLNVINENFGTLAFCRRWL  
DRLGESKYLMAKLNCDLGIVDPYPPLCDIKGSYTAQFEHTILLRPTCKE VVS RGDDY

>sp|Q96JE9|MAP6\_HUMAN Microtubule-associated protein 6 OS=Homo sapiens GN=MAP6 PE=1 SV=2

MAWPCITRACCIARFWNLDKADIAVPLVFTKYSEATEHPGAPPQPPPPQQAQPALAPP  
SARAVAIETQPAQGELDAVARATGPAPGPTGEREPAAGPGRSGPGPLGSGSTSGPADSV  
MRQDYRAWKVQRPEPSCRPRSEYQPSDAPFERETQYQKDFRAWPLPRRGDHPWIPKPVQI  
SAASQASAPILGAPKRRPQSQERWPVQAAAEAREQEAAPGGAGGLAAGKASGADERDTRR  
KAGPAWIVRRAEGLGHEQTPLPAAQAQVQATGPEAGRGAADALNRQIREEVASAVSSS  
YRNEFRAWTDIKPVKPIKAKPYKPPDDKMVHETSYSAQFKGEASKPTTADNKVIDRRRI  
RSLYSEPFKEPPKVEKPSVQSSPKKTSASHKPTRKAKDKQAVSGQA AAKKSAEGPSTTK  
PDDKEQSKEMNNKLAEAKESLAQPVSDSSKTQGPVATEPDKDQGSVVPGLLKQGQPMVQE  
PLKKQGSVVP GPPKDLGPMIPLPVKDQDHTVPEPLKNESPVISAPVKDQGPSVPVPPKNQ

SPMVPKAVKDDQGSVVPESLKDQGPRIPVKNQAPMVPAPVKDEGPMVSASVKDQGPMVS  
APVKDQGP IVPAPVKGEGPIVPAPVKDEGPMVSAPIKDQDPMVEHPKDESAMATAPIKN  
QGSMVSEPVKNQGLVVGSGPVKDQDVVVEHAKVHDSAVVAPVKNQGPVVPESVKNQDPIL  
PVLVKDQGPTVLQPPKNQGRIVPEPLKNQVPIVPVPLKDQDPLVPVPAKDQGPVPEPLK  
TQGPRDPQLPTVSPLPRVMIPTAPHTEYIESSP

>sp|Q16644|MAPK3\_HUMAN MAP kinase-activated protein kinase 3 OS=Homo sapiens GN=MAPKAPK3  
PE=1 SV=1

MDGETAEEQGGPVPPPVPAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLE  
CFHRRTGQKCALKLLYDSPKARQEVDDHHWQASGGPHIVCILDVYENMHGKRCLLIIMEC  
MEGGELFSRIQERGDQAFTEREAAEIMRDIGTAIQFLHSHNIAHRDVKPENLLYTSKEKD  
AVLKLTDGFGAKETTQNALQTPCYTPYYVAPEVLGPEKYDKSCDMWSLGVIMYILLCGFP  
PFYSNTGQAISPGMKRRIRLGQYGFPNPEWSEVEDAKQLIRLLKTDPETERLTITQFMN  
HPWINQSMVVPQTPLHTARVLQEDKDHWEDEVKEEMTSALATMRVDYDQVKIKDLKTSNNR  
LLNKRRKKQAGSSSSASQGCNNQ

>sp|Q9Y4F3|MARF1\_HUMAN Meiosis arrest female protein 1 OS=Homo sapiens GN=KIAA0430 PE=1  
SV=6

MMEGNGTENSCSRTRGWLQQDNDAPWLWKFSNCFSRPEQTLPHSPQTKEYMENKKVAVE  
LKDVPSPLHAGSKLFAVPLPDIRSLQQPKIQLSSVPKVSCCAHCPNEPSTSPMRFGGGG  
GGSGGTSSLIHGALLDSQSTRTITCQVGSQFAFQSASSLQNASARNLAGIASDFPSMC  
LESNLSCKHLPCCKGLHFQSCHGNVHKLHQFPSLQGCTSAGYFPCSDFTSGAPGHLEEH  
ISQSELTPLHCTNSLHLNVPPVCLKGSLYCEDCLNKPARNSIIDAAKVPNIPPPNTQP  
APLAVPLCNGCGTKGTGKETLLLATSLGKAASKFGSPEVAVAGQVLENLPPIGVFDIE  
NCSVPSGRSATAVQRIREKFFKGHREAEFICVCDISKENKEVIQELNNCQVTVAHINAT  
AKNAADDKLRQSLRRFANTHTAPATVVLVSTDVNFALSLDLRHRHGFHIIILVHKNQASE  
ALLHHANELIRFEFISDLPPRLPLKMPQCHTLLYVYNLPANKDGKSVSNRLRRLSDNCG  
GKVLSTIGCSAILRFINQDSAERAQKRMENEDVFGNRIIVSFTPKNRELCEKSSNAIAD  
KVKSPKKLKNPKLCLIKDASEQSSSAKATPGKGSQANSQSATKNTNVKSLQELCRMESKT  
GHRNSEHQGGHLRLVVPTHGNSSAAVSTPKNSGVAEPVYKTSQKKENLSARSVTSSPVEK  
KDKEETVVFQVSYSAFSLVASRQVSPLLASQSWSSRSMSPNLLNRASPLAFNIANSSE  
ADCPDPFANGADVQVSNIDYRLSRKELQQLQEAFAFHGKVKSVELSPHTDYQLKAVVQM  
ENLQDAIGAVNSLHRYKIGSKILVSLATGAASKSLSLSAETMSVLQDAPACCLPLFKF  
TDIYEKKFGHKLNVSDLYKLTDTVAIREQNGRLVCLLPSSQARQSPLGSSQSHDGSSTN  
CSPIIFEELEYHEPVCRQHCSNKDFSEHEFDPDSYKIPFVILSLKTFAPQVHSLQTHEG  
TVPLLSFPDCYIAEFGDLEVQENQGGVPLEHFITCVPGVNIATAQNGIKVVKWIHNKPP  
PPNTDPWLLRSKSPVGNPQLIQFSREVIDLLKSQPSCVIPISHFIPSYHHHFAKQCRVSD  
YGYSKLIELLEAVPHVLQILMGSKRLLTLTHRAQVKRFTQDLLKLLKSQASKQVIVREF  
SQAYHWCFSKDWDTYGVCELIDIVSEIPDTTICLSQQDNEMVICIPKRERTQDEIERT  
KQFSKDVDLLRHQPHFRMPFNKFIPSYHHHFGRCCKLAYYGFTKLELFEAIPDTLQVL  
ECGEEKILTLTEVERFKALAAQFVKLLRSQKDNCLMMTDLLTEYAKTFGYTFRLQDYDVS  
SISALTQKLCHVVKVADIESGRQIQLINRKSLSRLTAQLLVLLMSWEGTTHLSVEELKRH  
YESTHNTPLNPCEYGFMTLTELKSLPYLVEVFTNDKMEECVKLTSLYLFAKNVRSLLHT  
YHYQQIFLHEFSMAYTKYVGETLQPKTYGHSSVEELLGAIPQVVIKGGHGHKRIVVLKND  
MKSRLSSLSPANHENQPSEGERILEVPESHTASELKLADGSGPSHTEQELLRLTDDS  
PVDLLCAPVPSCLPSPQLRPDPVILQSADLIQFEERPQEPSEIMILNQEEKMEIPIPGKS

KTLTSDSSSSCISAAVPVPPCPSSSETSESLLSKDPVESPAKKQPKNRVKLAANFSLAPIT  
KL

>sp|Q86UD3|MARCH3\_HUMAN E3 ubiquitin-protein ligase MARCH3 OS=Homo sapiens GN=MARCH3 PE=1  
SV=1

MTTSRCSHLPEVLPDCTSSAAPVVKTVEDCGSLVNGQPQYVMQVSAKDGQLLSTVVRTLA  
TQSPFNDRPMCRIHEGSSQEDLLSPCECTGTLGTIHRSCLEHWLSSSNTSYCELCHFRF  
AVERKPRPLVEWLRNPGPQHEKRTLFGDMVCFLFITPLATISGWLCLRGAVDHLHFSSRL  
EAVGLIALTVALFTIYLFWTLVSFYHCRLYNEWRRTNQRVILLIPKSVNVPSNQPSLLG  
LHSVKRNSKETVV

>sp|O60337|MARCH6\_HUMAN E3 ubiquitin-protein ligase MARCH6 OS=Homo sapiens GN=MARCH6 PE=1  
SV=2

MDTAEEDICRVCRSEGTPEKPLYHPCVCTGSIKFIHQECLVQWLKHSRKEYCELCKHRFA  
FTPIYSPDMP SRLPIQDIFAGLVTSIGTAIRYWFHYTLVAFAWLGVVPLTACRIYKCLFT  
GSVSSLLTLPDMLSTENLLADCLQGCFVVTCTLCAFISLVWLREQIVHGGAPIWLEHAA  
PPFNAAGHHQNEAPAGGNGAENVAADQPANPPAENAVVGENPDAQDDQAEEDNEED  
DAGVEDAADANNGAQDDMNWNALEWDRAAEELTWERMLGLDGSLVFLEHVFWVVSNTLF  
ILVFAFCPYHIGHFSLVGLGFEHVQASHFGLITTIVGYILLAITLIICHGLATLVKFH  
RSRRLGVCYIVVKVSLLVVEIGVFPLICGWWLDICSLEMFDATLKDRELSFQSAPGTT  
MFLHWLVGMVYVFYFASFILLREVLRPGVLWFLRNLNDPDFNPVQEMIHLPIYRHLRRF  
ILSVIVFGSIVLLMLWLPIRIKSVLPNFLPYNVMLYSDAPVSELSLELLLLQVVLPA  
EQGHTRQWLKGLVRAWVTAGYLLDLHSYLLGDQEEENENSANQQVNNNQHARNNNAIPV  
GEGHAAHQAILQQGGPVGFQPYRRPLNPLRIFLLIVFMCITLLIASLICLTLPVFAGR  
WLMSFWTGTAKIHELTYAACGLYVCWLTIRAVTVMVAWMPQGRRVIFQVKESLMIMKT  
LIVAVLLAGVPLLGLLFELVIVAPLRVPLDQTPLFYPWQDWALGVLHAKIIAAITLMG  
PQWWLKTVIEQVYANGIRNIDLHYIVRKLAAPVISVLLSLCVPYVIASGVVPLLGVTA  
EQNLVHRRYIPFLMVVVLMAILSFQVRQFKRLYEHKNDKYLVGQRLVNYERKSGKQGS  
SPPPPQSSQE

>sp|P21941|MATN1\_HUMAN Cartilage matrix protein OS=Homo sapiens GN=MATN1 PE=1 SV=1

MRVLSGTSMLCSLLLLLQALCSPGLAPQSRGHLCTRPTDLVFVVDSSRSVRPVEFEKV  
KVFLSQVIESLDVGNATRVGMVNYASTVKQEFSLRAHVSKAALLQAVRRIQPLSTGTMT  
GLAIQFAITKAFGDAEGGRSRSPDISKVIVVTDGRPQDSVQDV SARARASGVELFAIGV  
GSVDKATLRQIASEPQDEHVDYVESYSVIEKLSRKQEAFCVVS D LCATGDHDCEQVCIS  
SPGSYTCACHEGFTLNSDGKTCNVCSGGGSSATDLVFLIDGSKSVRPENFELVKKFISQ  
IVDTLDVSDKLAQVGLVQYSSSVRQEFPLGRFHTKKDIKAAVRNMSYMEKGMTGAALKY  
LIDNSFTVSSGARPGAQKVGIVFTDGRSQDYINDAAKKAKDLGFKMFAVGVGNAVEDEL  
EIASEPVAEHYFYTADFKTINIGKKLQKKICVEEDPCACESLVKFQAKVEGLLQALTRK  
LEAVSKRLAILENTVV

>sp|O95460|MATN4\_HUMAN Matrilin-4 OS=Homo sapiens GN=MATN4 PE=1 SV=3

MRGLLCWPVLLLLLPWETQLLTGPRCHTGPLDLVFVIDSSRSVRPFEFETMRQFLMGL  
LRGLNVGNATRVGVIQYSSQVQSVFPLRAFSRREDMERAIRDLVPLAQGTMTGLAIQYA  
MNVAFSVAEGARPPEERVPRVAVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRADVGS  
LRAMASPLDEHVFVLVESFDLIQEFGLQFQSRLCGKDQCAEGGHGCQHQC VNAWAMFHCT  
CNPGYKLAADNKSCLAIDLCAEGTHGCEHHCNVSPGSYFCHCQVG FVLQQDQRSCRAIDY  
CSFGNHSCQHECVSTPGGPRCHCREGHDLPDGRSCQVRDLCNGVDHGCEFCVSEGLSY

RCLCPEGRQLQADGKSCNRCREGHVDLVLLVDGSKSVRPQNFELVKRFVNQIVDFLDVSP  
EGTRVGLVQFSSRVRTFPLGRYGTAAEVKQAVLAVEYMERGTMTGLALRHMVEHSFSEA  
QGARPRLNVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVGKAVEAELREIASEP  
AELHVSYPDFGTMTHLLENLRGSICPEEGISAGTELRSPECEESLVEFQGRTLGALES  
TLNLAQLTARLEDLENQLANQK

>sp|P61244|MAX\_HUMAN Protein max OS=Homo sapiens GN=MAX PE=1 SV=1  
MSDNDDIEVESDEEQPRFQSAADKRAHNALEKRRDHKDSFHSRLRDSVPSLQGEKASR  
AQILDKATEYIQYMRKNHHTHQDIDDLKRQNALLEQQVRALEKARSSAQLQTNYPSSDN  
SLYTNAGSTISAFDGGSDSSSESEPEEPQSRKKLRMEAS

>sp|Q9UBB5|MBD2\_HUMAN Methyl-CpG-binding domain protein 2 OS=Homo sapiens GN=MBD2 PE=1  
SV=1

MRAHPGGGRCCPEQEEGESAAAGSGAGGDSAIEQGGQGSALAPSPVSGVRREGARGGGRG  
RGRWKQAGRGGGVCGRGRGRGRGRGRGRGRGRPPSGGSGLGDDGGCGGGGSGGGG  
APRREPVPFPGSAGPGPRGRATESGKRMDPALPPGWKKEEVIKSGLSAGKSDVYYF  
SPSGKKFRSKPQLARYLGNTVDLSSDFRTGKMMPKSLQKNKQRLRNDPLNQNGKPDNL  
TTLPIRQTASIFKQPVTKVTHPSNKKVSDPQRMNEQPRQLFWEKRLQGLSASDVTEQII  
KTMELPKGLQGVGPGSNDETLLSAVASALHTSSAPITGQVSAAVEKNPAVWLNTSQPLCK  
AFIVTDEDIRKQEERVQQVRKKLEEALMADILSRAADTEEMDIEMDSGDEA

>sp|Q96DN6|MBD6\_HUMAN Methyl-CpG-binding domain protein 6 OS=Homo sapiens GN=MBD6 PE=1  
SV=2

MNGGNESSGADRAGGPVATSVPIGWQRCVREGAVLYISPSGTELSSLEQTRSLLSDGTC  
KCGLECPLNPKVFNFDPLAPVTPGGAGVGPASEEDMTKLCNHRRKAVAMATLYRSMETT  
CSHSSPGEASPMFHTVSPGPPSARPPCRVPPTTPLNGGPGSLPPEPPSVSQAFPTLAG  
PGGLFPRLADPVPSGGSSSPRFLPRGNAPSPAPPPPAISLNAPSYNWGAALRSSLVPS  
DLGSPAPHASSPPSDPPLFHCSDALTPPPLPPSNNLPAHPGPASQPPVSSATMHLPLV  
LGPLGGAPTVEGPGAPPFLASSLLSAAKAQHPPLPPPSTLQRRRPRAQAPSASHSSSLR  
PSQRRPRRPPTVFRLLLEGRGPQTPRRSRPRAPAPVPQPFSLPEPSQPILPSVLSLLGLPT  
PGPSHSDGSFNLLGSDAHLPPPPTLSSGSPQPRHPIQPSLPGTTSGSLSSVPGAPAPPA  
ASKAPVVPSPVLQSPSEGLGMGAGPACPLPPLAGGEAFPPSPPEQGLALSGAGFPGMLGA  
LPLPLSLGQPPPSPLLNSLFGVLTGGGGQPPPEPLPPPGGPGPPLAPGEPEGPSLLVA  
SLLPPPSDLLPPPSAPPSNLLASFLPLLALGPTAGDGECSAEGAGGPGSEPFSGLDLS  
PLLPPLSAPPTLIALNSALLAATLDPPSGTPPQPCVLSAPQGPPTSSVTTATTDPGAS  
SLGKAPSNSGRPPQLSPLLGLSLGDLSSLTSSPGALPSLLQPPGPLLSGQLGLQLLP  
GGAPPLSEASSPLACLQSLQIPPEQPEAPCLPPESPASALEPEPARPPLSALAPPHGS  
PDPPVPELLTGRSGKGRRRGGGLRGINGEARPARGRKPGSRREPGRALAKWGTGGFN  
GQMERSPRRTHHWQHNGELAEGGAEPKDP PPPGPHSEDLKVPPGVVRKSRRGRRRKYNPT  
RNSNSSRQDITLEPSPTARAAPVLP PRARPGRPAKNKRRKLAP

>sp|Q6ZNC8|MBOA1\_HUMAN Lysophospholipid acyltransferase 1 OS=Homo sapiens GN=MBOAT1 PE=1  
SV=1

MAAEPQPSSLSYRTTGSTYLHPLSELLGIPLDQVNFVVCQLVALFAAFWFRIYLRPGTTS  
SDVRHAVATIFGIYFVIFCGWYSVHLFVLVLMCYAIMVTASVSNIHRSFFVAMGYLTI  
CHISRIYIFHYGILTDFSGPLMIVTQKITTLAFQVHDGLGRRRAEDLSAEQHRLAIKVKP  
SFLEYLSYLLNFMVSIAGPCNNFKDYIAFIEGKHIHMKLLEVNWKRKGHSLPEPSPTGA  
VIHKLGITLVSLLLFLTTLTKTFPVTCLVDDWFVHKASFPARLCYLYVVMQASKPKYYFAW

TLADAVNNAAGFGFSGVDKNGNFCWDLNLSNLNIWKIETATSFKMYLENWNIQTATWLKCV  
CYQRPWYPTVLTFLSALWHGVYPGYFTFLTGILVTLAARVRNNYRHYFLSSRALKA  
VYDAGTWAVTQLAVSYTVAPFVMLAVEPTISLYKSMYFYLHIISLLIILFLPMKPQAHTQ  
RRPQTLNSINKRKT

>sp|Q05BQ5|MBTD1\_HUMAN MBT domain-containing protein 1 OS=Homo sapiens GN=MBTD1 PE=1 SV=2

MFDGYDSCSEDTSSESEEEVAPLPSNLPIIKNGQVYTPDGKSGMATCEMCGMV  
GVRDAFYSKTKRFSVSCSRSYSSNSKKASILARLQGKPPTKKAKVLQKQPLVAKLAAYA  
QYQATLQNQAKTAAVSMEGFSWGNYSNSFIAAPVTCFKHAPMGTCWGDISENVRVEV  
PNTDCSLPTKVFVIAGIVKLGYNALLRYEGFENDSGLDFWCNICGSDIHPVGWCAASGK  
PLVPPRTIQHKYTNWKAFLVKRLTGAKTLPPDFSQKVSESMQYPFKPCMRVEVVDKRHLC  
RTRVAVVESVIGRLRLVYEESEDRTDDFWCHMSPLIHHIGWSRSIGHRFKRSDITKKQ  
DGHFDTPPHLFAKVEVDQSGEWFKEGMKLEAIDPLNLSTICVATIRKVLADGFLMIGID  
GSEAADGSDWFCYHATSPSIFPVGFCEINMIELTPPRGYTKLPFKWFDYLRETGSIAAPV  
KLFNKDVPNHGFRVGMKLEAVDLMEPRLICVATVTRIIHRLLRIHFDGWEEYDQWVDCE  
SPDLYPVGWCQLTGYQLQPPASQSSRENQSASSKQKKAKSQYKGHKKMTTLQLKEELL  
DGEDYNFLQGASDQESNGSANFYIKQEP

>sp|Q9BV79|MECR\_HUMAN Trans-2-enoyl-CoA reductase, mitochondrial OS=Homo sapiens GN=MECR  
PE=1 SV=2

MWVCSTLWRVRTPARQWRGLLPASGCHGPAASSYSASAEPARVRALVYGHGDPKVVVEL  
KNLELAAVRGSDVRVKMLAAPINPSDINMIQGNYGFLPELPAVGGNEGVAQVAVGNSVT  
GLKPGDWVIPANAGLTWRTEAVFSEEALIQVPSDIPLQSAATLGVNPCTAYRMLMDFEQ  
LQPGDSVIQNASNSGVGQAVIQIAAALGLRTINVVRDRPDIQKLSDRKSLGAEHVITEE  
ELRRPEMKNFFKMPQPRALNCVGGKSSTELLRQLARGGTMTVYGGMAKQPVVASVSL  
IFKDLKLRGFWLSQWKDHSPPQFKELILTLCDLIRRGQLTAPACSQVPLQDYQSALEAS  
MKPFISSKQILTM

>sp|Q93074|MEDI2\_HUMAN Mediator of RNA polymerase II transcription subunit 12 OS=Homo  
sapiens GN=MEDI2 PE=1 SV=4

MAAFGILSYEHRPLKRPLGPPDVYPQDPKQKEDELALNVKQGFNNQPAVSGDEHGS  
AKNVSNPAKISSNFSSIIAEKLRCLNTLPDTGRRKPQVNQKDNFWLVTARSQSAINTWFTDL  
AGTKPLTQLAKKVPVIFSKKEEVFGYLAKYTPVPMRAAWLIKMTCAYYAAISETKVKKRHV  
DPFMEWTQIITKYLWEQLQKMAEYYRPGPAGSGGCGSTIGPLPHDVEVAIRQWDYTEKLA  
MFMFQDGMLEDRHEFLTWVLECFEKIRPGEDELLKLLPLLLRYSGEFVQSAYLSRRLAYF  
CTRRLALQLDGVSSHSHVISAQSTSTLPTTPAPQPPTSSTPSTPFSDDLMPQHRPLVF  
GLSCILQTILLCCPSALVWHYSLTDSRIKTGSPDLHLPIAPSNLPMPEGNSAFTQQVRAK  
LREIEQQIKERGQAVEVRWSFDKCQEATAGFTIGRVLHTLEVLDSSHFSERSDFSNSLDSL  
CNRIFGLGPSKDGHEISSDDDAVVSLLCEWAVSCKRSRHRAMVAVKLEKRQAEIEAER  
CGESEAADEKGSIASGSLSAPSAPIFQDVLLQFLDTQAPMLTDPRSESERVEFFNLVLLF  
CELIRHDVFSHMYTCTLISRGLAFGAPGRPPSPFDDPADDPEHKEAEGSSSKLEDP  
GLSEMDIDPSSSVLFEDMEKPDFSLFSPTMPCEGKGSPEKPDVEKEVKPPPKEKIEG  
TLGVLVDQPRHVQYATHFPIPQEESCSHECNQRLVVLFGVGKQRDDARHAIKKITKDILK  
VLNRKGAETDQLAPIVPLNPGDLTFLGGEDGQKRRNRPEAFPTAEDIFAKFQHLSHYD  
QHQTAVQVSRNVLEQITSFALGMSYHLPLVQHVFIFDLMEYSLSISGLIDFAIQLNEL  
SVVEAELLKSSDLVGSYTTSLCLCIVAVLRHYHACLILNQDQMAQVFEGLCGVVKGGMN  
RSDGSSAERCILAYLDLYTSCSHLKNKFGELFSDFCSKVKNTIYCNVEPSESNMRAWPE

FMIDTLENPAHTFTYTGLGKSLSEN PANRYSFVCNALMHVCVGHDPDRVNDIAILCAE  
LTGYCKSLSAEWLGVKALCCSSNNGTCGFNDLLCNVDVSDLSFHDSLATFVAILIARQC  
LLEDLIRCAAI PSLNAACSEQDSEPGARLTCRILLHLFKTPQLNPCQSDGNKPTVGIR  
SSCDRHLLAASQNRIVDGAVFAVLKAVFVLGDAELKSGSFTVTGGTEELPEEEGGGSGG  
RRQGGRNISVETASLDVYAKYVLR SICQEWVGERCLKSLCEDSNLDQDPVLSSAQARL  
MLICYPHRLLDNEDGENPQRQRIKRILQNLDQWTMRQSSLELQLMIKQTPNNEMNSLLE  
NIAKATIEVFQQAETGSSSGSTASNPSSSKTKPVLSSLERSGVWLVAPLIAKLPTSQV  
GHVLKAAGEELEKGQHLGSSSRKERDRQKQKSM SLLSQQPFLSLVLTCLKGQDEQREGLL  
TSLYSQVHQIVNNWRDDQYLDCKPKQLMHEALKLRLNLVGGMFDTVQRSTQQTTEWAML  
LLEIIISGTVDMQSNNELFTTVLDMLSVLINGTLAADMSSISQGSMEENKRAYMNLAKKL  
QKELGERQSDSLEKVRQLLPLPKQTRDVITCEPQGS LIDTKGNKIAGFDSIFKKEGLQVS  
TKQKISPWDLFEGLKPSAPLSWGWFGTVRVDRRVARGE EQRLLYHHLRPRPRAYYLE  
PLPLPPEDEEPPAPTLEPEKKAPEPPKTDKPGAAPPSTEERKKKSTKGKKRSQPATKTE  
DYGMPGRSGPYGVTVPPDLLHHPNPGSITHLNYRQGSIGLYTQNPPLAGGPRVDPYRP  
VRLPMQKLPTRPTYPGVLPTTMTGVMGLEPSSYKTSVYRQQQPAVPQGQRLRQQLQSQG  
MLGQSSVHQMT PSSSYGLQTSQGYTPYVSHVGLQQHTGPAGTMVPPSYSSQPYQSTHPST  
NPTLVDPTRHLQQRPSGYVHQAPTYGHGLTSTQRFHQTLQQTPMISTMTMSAQGVQA  
GVRSTAILPEQQQQQQQQQQQQQQQQQQQQQQYHIRQQQQQILRQQQQQQQQQQ  
QQQQQQQQQQQQQQHQQQQQQAAPPQPQPSQPQFQRQGLQQTQQQQQTAALVRQLQQ  
QLSNTQPQPSTNIFGRY

>sp|A0JLT2|MEDI9\_HUMAN Mediator of RNA polymerase II transcription subunit 19 OS=Homo sapiens GN=MEDI9 PE=1 SV=2

MENFTALFGAQADPPPPPTALGFGPGKPPPPPPPPAGGGPGTAPPPTAATAPPGADKSGA  
GCGPFYLMRELPGSTELTGSTNLITHYNLEQAYNKFCGKKVKEKLSNFLPDLPGMIDLPG  
SHDNSSLRLSIEKPPILSSSFNPITGTMLAGFRLHTGPLEQCRLMHIQPPKKKNKHKHK  
QSRTQDPVPPETPSDSHKKKKKKKEEDPDRKRKKKEKKKKKNRHSPDHPGMGSSQASSS  
SSLR

>sp|Q00987|MDM2\_HUMAN E3 ubiquitin-protein ligase Mdm2 OS=Homo sapiens GN=MDM2 PE=1 SV=1

MCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQY  
IMTKRLYDEKQHHIVYCSNDLLGDLFGVPSFSVKEHRKIYTMIRNLVVVNQQESSDSGT  
SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETTEENSDELSEGERQ  
RKRHKSDSISLFDLALCVIREICCRSSSSESTGTSPNPDLDAGVSEHSGDWLDQDS  
VSDQFSVEFEVESLSEEDYSLSEEGQELSEDEDEVYQVTYVQAGESDTSFEEDPEISLA  
DYWKCTSCNEMNPPLPSHCNRCWALRENWLPEDKGDKGEISEKAKLENSTQAEEGFDVP  
DCKKTIIVNDSRESCVEENDKITQASQSQESQEDYSQPSTSSSIYSSQEDVKEFEREETQ  
DKEESVESSLPLNAIEPCVICQGRPKNGCIVHGKTGHLMACFTCAKKLKKRNKPCPVCRQ  
PIQMIVLTYFP

>sp|Q8NDY4|MDS2\_HUMAN Myelodysplastic syndrome 2 translocation-associated protein OS=Homo sapiens GN=MDS2 PE=2 SV=1

MLQAADFIERTETAGELSRGLIGVLSSQISWCLLNVNLSKLPTLRQLRSCSVLNSSPAMR  
GGARGRPQLTLERPLRPGCRLHSCSEAEKGGFVRRKEIILFPPCEDPARGWLSANPGREP  
SPGICWHLNLGLPSLHNCEE

>sp|Q9P086|MEDI11\_HUMAN Mediator of RNA polymerase II transcription subunit 11 OS=Homo sapiens GN=MEDI11 PE=1 SV=2

MATYSLANERLRALEDIEREIGAILQNAGTVILELSKEKTNERLLDRQAAAFASVQHVE  
AELSAQIRYLTQVATGQPHEGSSYSSRKDCQMALKRVDYARLKLSDVARTCEQMLEN

>sp|Q9BUE0|MED18\_HUMAN Mediator of RNA polymerase II transcription subunit 18 OS=Homo sapiens GN=MED18 PE=1 SV=1

MEAPPVTMPVTGGTINMMEYLLQGSVLDSLES LIHRLRGLCDNMEPETFLDHEMVFL  
KGQQASPFVLRARRSMDRAGAPWHLRYLGQPEMGDKNRHALVRNCVDIATSENLTDFLME  
MGFRMDHEFVAKGHLFRKGIMKIMVYKIFRILVPGNTDSTEALSLSYVELSVVAPAGQD  
MVSDDMKNFAEQLKPLVHLEKIDPKRLM

>sp|O95402|MED26\_HUMAN Mediator of RNA polymerase II transcription subunit 26 OS=Homo sapiens GN=MED26 PE=1 SV=2

MTAAPASPQQIRDRLQAIDPQSNIRNMVAVLEVISSLEKYPITKEALEETRLGKLINDV  
RKKTKEELAKRAKKLLRSWQKLIEPAHQHEAALRGLAGATGSANGGAHNCRPEVGAAGP  
PRSIHDLKSRNDLQRLPGQRLDRLGSRKRRGDQRDLGHPGPPPKVSKASHDPLVPNSSPL  
PTNGISGSPESFASSLDGSGHAGPEGSRLERDENDKHSGKIPVNAVPRHTSSPGLGKPPG  
PCLQPKASVLQQLDRVDETGPHPKGPSPRNSRHEGSFARQQSLYAPKGSVPSP  
SPRPQALDATQVPSPLPLAQSTPPVRRLELLPSAESPVCWLEQPESHQRLAGPGCKAGL  
SPAEP LLSRAGFSPDSSKADSDAASSGGSDSKKKKRYRPRDYTVNLDGQVAEAGVKPVRL  
KERKLTFDPMTRQIKPLTQKEPVRADSPVHMEQQSRTELDKQEAASLQSPFEQTNWKEL  
SRNEIIQSILSRQSSLLSSSGAQTGPAHHFMSEYLKQEESTRQGARQLHVLVPQSPPTDL  
PGLTREVTQDDLDRIQASQWPGVNGCQDTQGNWYDWTQCISLDPHGDDGRLNILPYVCLD

>sp|Q02080|MEF2B\_HUMAN Myocyte-specific enhancer factor 2B OS=Homo sapiens GN=MEF2B PE=1 SV=2

MGRKKIQISRILDQRNRQVTFTRKFGLMKKAYELSVLCDCEIALIIFNSANRLFQYAST  
DMDRVLLKYTEYSEPHESRTNTDILETLKRRGIGLDGPELEPDEGPEEPGEKFRRLAGEG  
GDPALPRRLYPAAPAMPSPDVVYGALPPPGCDPSGLGEALPAQSRPSPFRPAAPKAGPP  
GLVHPLFSPSHLTSKTPPLYLPTGRRSDLPGLAGPRGGLNTRSLSYGLQNPCSTAT  
PGPPLGSFPFLPGGPPVGAEAWARRVPQAAPPRRPPQSASSLSASLRPPGAPATFLRPS  
PIPCSSPGPWQLCGLGPPCAGCPWPTAGPGRRSPGGTSPERSPGTARARGDPTSLQASS  
EKTQQ

>sp|Q5JSS6|MEIG1\_HUMAN Meiosis expressed gene 1 protein homolog OS=Homo sapiens GN=MEIG1 PE=3 SV=1

MASSDVKPKSVSHAKKWSEEIENLYRFQQAGYRDETEYRQVKQVSMVDRWPETGYVKKLQ  
RRDNTFYYYNQRECDDEKVEHKVIYAY

>sp|O14770|MEIS2\_HUMAN Homeobox protein Meis2 OS=Homo sapiens GN=MEIS2 PE=1 SV=2

MAQRYDELPHYGGMDGVGPASMYGDPHAPRPIPPVHHLNHGPPLHATQHYGAHAPHPNV  
MPASMGSAVNDALKRDKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSSDSFN  
EDIAVFAKQVRAEKPLFSSNPELDNLMIQAIQVLRFHLLLELEKVHELCDNFCHRYISCLK  
GKMPIDLVIDERDGSSKSDHEELSGSSTNLADHNPSSWRDHDDATSTHSAGTPGPSSGGH  
ASQSGDNSSEQGDGLDNSVASPGTGDDDDPKDKKRQKKRGIFPKVATNIMRAWLFQHLT  
HPYPSEEQKKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAGFLLDPSVSQGAAYS  
PEGQPMGSFVLGQQHMGIRPAGLQSMPGDYVSQGGPMGMSMAQPSYTPPQMTPHPTQLR  
HGPPMHSYLPSPHHPAMMMHGGPPTHGPMTMSAQSPTMLNSVDPNVGGQVMDIHAQ

>sp|Q14680|MELK\_HUMAN Maternal embryonic leucine zipper kinase OS=Homo sapiens GN=MELK PE=1 SV=3



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LKNLRHQHICQLYHVLETANKIFMVLEYCPGGELFDYIISQDRLSEEETRVVFRQIVSAV  
AYVHSQGYAHRDLKPENLLFDEYHKLKLIDFGLCAKPKGNKYHLQCCGSLAYAAPELI  
QGKSYLGSEADVWSMGILLVLMCGFLPFDDDNVMALYKKIMRGKYDVPKWSPSSILL  
QQMLQVDPKKRISMKNLLNHPWIMQDYNYPVEWQSKNPF IHLDDDCVTELSVHHRNNRQT  
MEDLISLWQYDHLTATYLLLLAKKARGKPVRLRLSSFSCGQASATPFTDIKSNNWSLEDV  
TASDKNYVAGLIDYDWCEDDLSTGAATPRTSQFTKYWTESNGVESKSLTPALCRTPANKL  
KNKENVYTPKSAVKNEEYFMFPEPKTPVNKNQHKREILTPNRYTTPSKARNQCLKETPI  
KIPVNSTGTDKLTGVI SPERRCRSVELDLNQAHEETPKRKGAKEVFGSLERGLDKVITV  
LTRSKRKGSARDGPRRLKLHYNVTTRLVNPQDLLNEIMSILPKKHVDFVQKGYTLKCQT  
QSDFGKVTMQFELEVCQLQKPDVVGIRRLKGDWVYKRLVEDILSSCKV

>sp|Q14696|MESD\_HUMAN LDLR chaperone MESD OS=Homo sapiens GN=MESDC2 PE=1 SV=2

MAASRWARKAVVLLCASDLLLLLLLLLPPPGSCAAEGSPGTPDESTPPPRKKKKDIRDYND  
ADMARLLEQWEKDDDIIEGDLPEHKRPSAPVDFSKIDPSKPESILKMTKKGKTLMMFVTV  
SGSPTEKETEEITSLWQGSLFNANYDVQRFIVGSDRAIFMLRDGSYAWIEKDFLVGQDRC  
ADVTLEGQVYPGKGGGSKEKNKTKQDKGKKKKEGDLKSRSKEENRAGNKREDL

>sp|Q5JPI9|MET10\_HUMAN Protein-lysine N-methyltransferase METTL10 OS=Homo sapiens  
GN=METTL10 PE=1 SV=2

MSSGADGGGGAAVAARSDKSPGEDGFVPSALGTREHWDVYERELQTFREYGDTGEIWF  
GEESMNRLIRWMQHKHIPLDASVLDIGTNGVFLVELAKFGFSNITGIDYSPSAIQLSGS  
IIEKEGLSNIKLKVEDFLNLSTQLSGFHICIDKGTFDAISLNPDAIEKRKQYVKSLSRV  
LKVKGFFLITSCNWTKEELLNEFSEGWSTVAGFWLTAALTSWAQAFSTASRVGGTTGT  
HHHAWIIFVFLAETRCHVQAGLELLGSSDSPTWPPKVLGLYHARPSLAF

>sp|Q9HCE5|MET14\_HUMAN N6-adenosine-methyltransferase subunit METTL14 OS=Homo sapiens  
GN=METTL14 PE=1 SV=2

MDSRLQEIRERQKLRRQLLAQQLGAESADSIGAVLNSKDEQREIAETRETCRASDYTSAP  
NAKRKYLDEGETDEDKMEEYKDELEMQQDEENLPYEEIYKDSSTFLKGTQSLNPHNDYC  
QHFDVTGHRPQNFIRDVGLADRFEYYPKLRELIRLKDELIASNTPPMYLQADIEAFDIR  
ELTPKFDVILPEPLEEYRETGITANEKCTWDDIMKLEIDEIAAPRSFIFLWCGSGEG  
LDLGRVCLRWGYRRCEDICWIKTNKNNGKTKTLDPKAVFQRTKEHCLMGIKGTVKRST  
DGDFIHANVDIDLIIITEPEIGNIEKPVEIFHIIEHFCLGRRRLHLFGRDSTIRPGWLT  
GPTLTNSNYNAETYASYFSAPNSYLTGCTEEIERLRPKSPPPKSKSDRGGGAPRGGGRGG  
TSAGRGRERNRSNFRGERGGFRGGRGGAHRGGFPFR

>sp|Q86W50|MET16\_HUMAN Methyltransferase-like protein 16 OS=Homo sapiens GN=METTL16 PE=1  
SV=2

MALSKSMHARNRYKDKPPDFAYLASKYPDFKQHVQINLNGRVSLNFKDPEAVRALTCTLL  
REDFGLSIDIPLERLIPTVPLRLNYIHWVEDLIGHQSDSKSTLRRGIDIGTGASCIYPLL  
GATLNGWYFLATEVDDMCFNYAKKNVEQNNLSDLIKVVKVPQKTLLMDALKEESEIIYDF  
CMCNPPFFANQLEAKGVNSRNP RPSSVNTGGITEIMAEggeLEFVKRIIHDSLQLKK  
RLRWYSCMLGKKCSLAPLKEELRIQGVPKVYTFECQGRTRWALAWSFYDDVTVSPPS  
KRRKLEKPRKPI TFVVLASVMKELSLKASPLRSETAEGIVVVTTWIEKILTDLKVQHHRV  
PCGKEEVSLFLTAIENSWIHLRRKKRERVRLREVPRAPEDVIQALEEKKPTPKESGNSQ  
ELARGPQERTPCGPALREGEAAVEGPCPSQESLSQEENPEPTEDERSEEKGGVEVLESC  
QGSSNGAQDQEASEQFGSPVAERGRKRLPGVAGQYLFKCLINVKKEVDDALVEMHWVEGQN

RDLMNQLCTYIRNQIFRLVAVN

>sp|Q9H7H0|MET17\_HUMAN Methyltransferase-like protein 17, mitochondrial OS=Homo sapiens  
GN=METTL17 PE=1 SV=1

MAAALKCLLTGRWCPGLGVAPQARALAALVPGVTQVDNKSGLQKRPHRQHPGILKLPH  
VRLPQALANGAQLLLLSAGPTMENQVQTLTSYLWSRHLPVEPEELQRRARHLEKKFLEN  
PDLSQTEEKLRGAVLHALRKTTYHWQELSYTEGLSLVYMAARLDGGFAAVSRAFHEIRAR  
NPAFQPQTLMDFGSGTGSVTWAAHSIWGQSLREYMCVDRSAAMLVLAEKLLKGSESSEGE  
YIPGVFFRQFLPVSPKVQFDVVSAFSLSELPSKADRTEVVQTLWRKTGHFLVLVENGTK  
AGHSLMDARDLVLGKEKESPLDPRPGFVFAPCPHELPCPQLTNLACSFQAYHIPFSW  
NKKPKEEKFSMVILARGSPEEAHRWPRITQPVLKRPRHVHCHLCCPDGHMQHAVLTARRH  
GRDLYRCARVSSWGDLLPVLTPSAFPSTAQDPSES

>sp|Q00266|METK1\_HUMAN S-adenosylmethionine synthase isoform type-1 OS=Homo sapiens  
GN=MAT1A PE=1 SV=2

MNGPVDGLCDHSLSEGVFMFTSESVGEGHPDKICDQISDAVLDAHLKQDPNAKVACETVC  
KTGMVLLCGEITSMAMVDYQVRVDTIKHIGYDDSAKGDFKTCNVLVALEQQSPDIAQC  
VHLDRNEEDVGAGDQGLMFGYATDETEECMPLTIILAHKLNARMADLRRSGLLPWLRPDS  
KTQVTVQYMQDNGAIVPRIHTIVISVQHNEEDITLEEMRRALKEQVIRAVVPAKYLDEDT  
VYHLQPSGRFVIGGPQGDAGVTGRKIIVDTYGGWGAHGGGAFSGKDYTKVDRSAAYAARW  
VAKSLVKAGLCRRVLVQVSYAIGVAEPLSISIFTYGTSSQKTERELLDVVHKNFDLRPGVI  
VRDLDLKKPIYQKTACYGHFGRSEFPWEVPRKLVF

>sp|Q86YR7|MF2L2\_HUMAN Probable guanine nucleotide exchange factor MCF2L2 OS=Homo sapiens  
GN=MCF2L2 PE=2 SV=3

MLSCLKEEMPPQELTRRLATVITHVDEIMQQEVRPLMAVEIEQLHRQFAILSGGRGEDG  
APIITFPEFSGFKHIPDEDFLNMVTLTSIPSVEAASIGFIVVIDRRRDKWSSVKASLTR  
IAVAFPGNLQLIFILRPSRFIQRFTDIGIKYYRNEFKTKVPIIMVNSVSDLHGYIDKSQ  
LTRELGGTLEYRHGQWVNHRTAIENFALTLKTTAQLQTFGSLATAELPRSMSTEDLL  
MSHTRQRDKLQDELKLLGKQGTLLSCIQEPATKCPNSKLNQLENTTMERLLVQLDE  
TEKAFSHFWSEHHLKLNQCLQLQHFHDFCKAKLALDNLLLEEQAFTGIGDSVMHVEQIL  
KEHKLEEKSSQEPLEKAQLLALVGDLIQSHHYAADAIRPRCVELRHLCDDFINGNKKKW  
DILGKSLEFHRQLDKVSQWCEAGIYLLASQAVDKCQSREGVDIALNDIATFLGTVKEYPL  
LSPKEYNEFELLTLDAKAKAQKVLQRLDDVQEIFHKRQVSLMKLAQKTRPVQPVAPH  
PESSPKWVSSKTSQPSTSVPLARPLRTSEEPYTETELNSRGKEDDETKFEVKSEEIFESH  
HERGNPELEQQARLGDLSRRRIIRDLEETEEIYIKEIKSIIDGYITPMDFIWLKHLIPD  
VLQNNKDFLFGNIRELYEFHNRTFLKELEKCAENPELLAHCFLKRKEDLQIYFKYHKNLP  
RARIWQECQDCAYFGVCQRQLDHNLPFKYLGKPSQRLIKYQMLLKGLLDFESPEDMEI  
DPGELGGSAGDKPKRTKDSAFSTELQQALAVIEDLIKSCELAVDLAAVTECPDDIGKLGK  
LLHGPFSVWTIHKDRYKMKDLIRFKPSQRQIYLFERGI VFCKIRMEPGDQGLSPHYSFK  
KTMKMLTSLRQLGRGSHRKFEIASRNGLEKYILQAASKEIRDCWFSEISKLLMEQQNNI  
KDQGNPQFEMSTSKGSGAGSGPWIKNMERATTSKEDPASSTGGIKGCSSREFSSMDTFED  
CEGAEDMEKESSALSLAGLFQSDSHETCSSKSAFLERGESSQGEKEERDEEETATRSTE  
EERAGASTGRLAPAGATAGFQARALRPRTSAQES

>sp|P55001|MFAP2\_HUMAN Microfibrillar-associated protein 2 OS=Homo sapiens GN=MFAP2 PE=2  
SV=1

MRAAYLFLFLPAGLLAQGGYDLPLPPFPDHVQYTHYSDQIDNPDIYDYQEVTPRPSEE

QFQFQSQQVQVEVIPAPTPEPGNAELEPTEPGPLDCREEQYPCTRLYSIHRPCKQCLNE  
VCFYSLRRVYVINKEICVRTVCAHEELRADLCRDKFSKCGVMASGLCQSVAASCARSC  
GSC

>sp|P55083|MFAP4\_HUMAN Microfibril-associated glycoprotein 4 OS=Homo sapiens GN=MFAP4  
PE=1 SV=2

MKALLALPLLLLLSTPPCAPQVSGIRGDALERFCLQQPLDCDDIYAQGYQSDGVYLIYPS  
GPSVPVPVFCDMTTEGGKWTVFQKRFNGSVSFFRGWNDYKLGFGRADGEYWLGLQNMHLL  
TLKQKYELRVDLEDFENNTAYAKYADFSISPNAVSAEEDGYTLFVAGFEDGGAGDSLSYH  
SGQKFSTFDRDQDLFVNCAALSSGAFWFRSCHFANLNGFYLGSHLSYANGINWAQWKG  
FYYSLKRTMKIRRA

>sp|Q9BRQ6|MIC25\_HUMAN MICOS complex subunit MIC25 OS=Homo sapiens GN=CHCHD6 PE=1 SV=1  
MGSTESSEGRRVSFVGDEEERVRLQGVRLSENVVNMKEPSSPPAPTSTFGLQDGNL  
RAPHKESTLPRSGSSGGQQPSGMKEGVKRYEQEHAAIQDKLFQVAKREREAAATKHSKASL  
PTGEGSISHEEQSVRLARELESREAELRRRDTFYKEQLERIERKNAEMYKLSSEQFHEA  
ASKMESTIKPRRVEPVCSGLQAQILHCYDRPHEVLLCSDLVKAYQRCVSAAHKG

>sp|Q9BUR5|MIC26\_HUMAN MICOS complex subunit MIC26 OS=Homo sapiens GN=APOO PE=1 SV=1  
MFKVIQSRVGPASLSLLTFKVYAAPKSDPPKNSVKVDELSLYSVPEGQSKYVEEARSQ  
EESISQLRHYCEPYTTWCQETYSQTKPKMSLVQWGLDSYDYLQNAPPGFFPRLGVIGFA  
GLIGLLLARGSKIKKLVYPPGFMGLAASLYPQQAIVFAQVSGERLYDWGLRGYIVIEDL  
WKENFQKPGNVKNSPGTK

>sp|Q8TD10|MIP01\_HUMAN Mirror-image polydactyly gene 1 protein OS=Homo sapiens GN=MIPOL1  
PE=1 SV=1

MENWSKDITHSYLEQETTGINKSTQPDEQLTMNSEKSMHRKSTELVNEITCENTEWPQQR  
STNFQIISYPDDESUYCTTEKYNVMEHRHNDMHYECMTPCQVTSDDKEKTIAFLKEL  
DILRTSNKKLQQLAKEDKEQRKLKFKLELQEKETEAKIAEKTAALVEEVYFAKERDEA  
VMSRLQLAIEERDEAIARAKHMEMSLKVLENINPEENDMTLQELLNRINNADTGIAIQKN  
GAIIVDRIYKTKECKMRITAEEMSALIEERDAALSKCKRLEQELHHVKEQNQTSANNMRH  
LTAENNQERALKAKLLSMQQAARETAVQQYKKLEEEIQTLRVYYSLHKSLSQEENLKDQFN  
YTLSTYEEALKNRENIVSITQQQNEELATQLQQALTERANMELQLQHAREASQVANEKVQ  
KLERLVDVLRKKVGTGMTRTVI

>sp|Q8TDRO|MIPT3\_HUMAN TRAF3-interacting protein 1 OS=Homo sapiens GN=TRAF3IP1 PE=1 SV=1

MNAAVVRTQEALGKVIIRPPLTEKLLSKPPFRYLHDIITEVIRMTGFMKGLYTDAEMKS  
DNVKDKDAKISFLQKAIDVVVMVSGEPLAKPARIVAGHEPERTNELLQIIGKCCLNKLS  
SDDAVRRVLAGEKGEVKGASLTSRSQELDNKNVREESRVHKNTEDRGDAEIKERSTSR  
DRKQKEELKEDRKPREKDKKEKAKENGGRHREGERERAKARAPDNERQKDRGNRERD  
RDSERKKETERKSEGKKEKERLRDRDRERDRDKGKDRRRRVKNGEHSWDLREKNREHD  
KPEKKSASSGEMSKKLSDGTFKDSKAETETEISTRASKSLTTKTSKRRSKNSVEGRKEDN  
ISAKSLDSIVSGINNEPNQETTSEIGTKEANINSTSISDDNSASLRCENIQPNPTEKQK  
GDSTDAEGDAGPAGQDKSEVPETPEIPNELSSNIRRIIPRPGSARPAPPRVKRQDSMEAL  
QMDRSGSGKTVSNVITESHNSDNEEDDQFVVEAAPQLSEMSEIEMVTAVELEEEEEKHGG  
VKKILETKKDYELQQSPKPGEKERSLFESAWKKEKDIVSKEIEKLRTSIQTLCKSALPL  
GKIMDYIQEDVDAQNELQMWHSENRQHAELQQEQRITDCAVEPLKAELAELEQLIKDQ  
QDKICAVKANILKNEEKIQKMVYSINLTSRR

>sp|Q8IXI1|MIRO2\_HUMAN Mitochondrial Rho GTPase 2 OS=Homo sapiens GN=RHOT2 PE=1 SV=2

MRRDVRILLGAEQVGKTSILSLVGEEFPEEVPPRAEEITIPADVTPEKVPTHIVDYSE  
AEQTDEELREEIHKANVVCVYDVSEEATIEKIRTKWIPLVNGGTTQGPRVPIILVGNKS  
DLRSGSSMEAVLPIMSQFPEIETCVECSAKNLRNISELFYYAQKAVLHPTAPLYDPEAKQ  
LRPACAQALTRIFRLSDQDLQALSDEELNAFQKSCFGHPLAPQALEDVKTIVCRNVAGG  
VREDRLTLDGFLFLNTLFIQGRHETTWTILRRFGYSDALELTADYLSPLIHVPPGCSTE  
LNHLGYQFVQRVFEKHDQDRDGALSPVELQSLFSVFPAAPWGPELPRTVRTEAGRLPLHG  
YLCQWTLVTYLDVRSCLGHLGYLGYPTLCEQDQAHAITVTREKRLDQEKGTQRSVLLCK  
VVGARGVGKSAFLQAFGLGRGLGHQDTREQPPGYAIDTVQVNGQEKYLILCEVGTDGLLAT  
SLDATCDVACLMDFGSDPKSFAHCASVYKHHYMDGQTPCLFVSSKADLPEGVAVSGPSPA  
EFCRKHRLPAPVPFSCAGPAEPSTTIFTQLATMAAFPHLVHAELHPSSFWRGLLGVVGA  
AAAVLSFSLYRVLVKSQ

>sp|P28482|MK01\_HUMAN Mitogen-activated protein kinase 1 OS=Homo sapiens GN=MAPK1 PE=1  
SV=3

MAAAAAGAGPEMVRGQVFDVGPRYTNSYIGEGAYGMVCSAYDNVNKVRVAIKKISPFE  
HQTQCRTLREIKILLRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQH  
LSNDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLNTTCDLKICDFGLARVADPDHDH  
TGFLTEYVATRWYRAPEIMLNSKGYTKSIDIWSVGCILAEMLSNRPIFPGKHYLDQLNHI  
LGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALDLLDKMLTFNPHK  
RIEVEQALAHPPYLEQYYDPSDEPIAEAPFKFDMELDDLPEKELKELIFEETARFQPGYRS

>sp|P27361|MK03\_HUMAN Mitogen-activated protein kinase 3 OS=Homo sapiens GN=MAPK3 PE=1  
SV=4

MAAAAQGGGGGEPRRTEGVGPVPEVEMVKGQPFVGPRTQLQYIGEGAYGMVSSAY  
DHVRKTRVAIKKISPFEHQTYCRTLREIQILLRFRHENVIGIRDILRASTLEAMRDVYI  
VQDLMETDLYKLLKSQQLSNDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLINTTCDL  
KICDFGLARIADPEHDHTGFLTEYVATRWYRAPEIMLNSKGYTKSIDIWSVGCILAEMLS  
NRPIFPGKHYLDQLNHLGILGSPSQEDLNCIINMKARNYLQSLPSKTKVAWAKLFPKSD  
SKALDLLDRMLTFNPNKRITVEEALAHPPYLEQYYDPTDEPVAEEPFTFAMELDDLPERL  
KELIFQETARFQPGVLEAP

>sp|P53779|MK10\_HUMAN Mitogen-activated protein kinase 10 OS=Homo sapiens GN=MAPK10 PE=1  
SV=2

MSLHFLYYCSEPTLDVKIAFCQGFDKQVDVSYIAKHYNMSKSKVDNQFYSVEVGSTFTV  
LKRYQNLKPIGSAQGIVCAAYDAVLDRNVAIKKLSRPFQNTAKRAYRELVLMKCVNH  
KNIISLLNVFTPQKTLEEFQDVYLMELMDANLCQVIQMEDHERMSYLLYQMLCGIKHL  
HSAGIHRDLKPSNIVVKSCTLKILDFGLARTAGTSFMMTPYVVTRYRAPEVILGMGY  
KENVDIWSVGCIMGEMVRHKILFPGRDYIDQWNKVIEQLGTPCPEFMKKLQPTVRNYVEN  
RPKYAGLTFPKLFPDSLFPADSEHNKLKASQARDLLSKMLVIDPAKRISVDDALQHPYIN  
VWYDPAEVEAPPPQIYDKQLDEREHTIEEWKELIYKEVMNSEEKTNGVVKGQPSPSGAA  
VNSSSLPPSSSVNDISSMSTDQTLASDTSSEASAGPLGCCR

>sp|P53778|MK12\_HUMAN Mitogen-activated protein kinase 12 OS=Homo sapiens GN=MAPK12 PE=1  
SV=3

MSSPPPARSGFYRQEVTKTAWEVRAVYRDLQPVGSGAYGAVCSAVDGRGAKVAIKKLYR  
PFQSELFAKRAYRELRLKHMRENVIGLLDVFTPDETLDLDDTFYLVMPFMGTDLGKLM  
KHEKLGEDRIQFLVYQMLKGLRYIHAAGIHRDLKPGNLAVNEDCELKILDFGLARQADS  
EMTGYVVTRWYRAPEVILNWMRYTQTVDIWSVGCIMAEMITGKTLFKGSDHLDQLKEIMK

VTGTPPAEFVQRLQSDEAKNYMKGLPELEKKDFASILTNASPLAVNLLEKMLVLDAEQRV  
TAGEALAHYPYFESLHDETEPQVQKYDDSFDDVDRTLDEWKRVTYKEVLSFKPPRQLGAR  
VSKETPL

>sp|Q9NU22|MDN1\_HUMAN Midasin OS=Homo sapiens GN=MDN1 PE=1 SV=2

MEHFLLEVAAAPRLRIAANKNEKSRELGRFLAKQVWTPQDRQCVLSTLAQLLLDKCTVL  
VGRQLRPLLLDLLERNAEAIKAGGQINHDLHERLCVSMKSLIGNHPDVLFPALRYFKDTS  
PVFQRLFLESSDANPVRYGRRRMKLRDLMEAAFKFLQQEQSVFRELWDWSVCVPLLRSHD  
TLVRWYTANCLALVTCMNEEHKLSFLKKIFNSDELIHFRLRLLEEAQLQDLEKALVLANP  
EVSLWRKQKELQYLQGHVSSDLSPRVTAVCGVVLPGQLPAPGELGGRSSSREQELALR  
SYVLVESVCKSLQTLAMAVASQNAVLLLEGPICGKTSLVEYLAAVTGRTPPQLLKVQLG  
DQTDKMLLGMRYCTDVPGEFVWQPGTLTQAATMGHWILLEDIDYAPLDVVSVLIPLEN  
GELLIPGRGDCLKVAPGFQFFATRRLSCGGNWYRPLNSHATLLDKYWTKIHLNLDKRE  
LNEVLQSRYPSSLAVVDHLLDIYIQLTGEKHHSWSDSSVGCEQAPEEVSEARRENKRPTL  
EGRELSLRDLLNWCNRIAHSDSSLSASLNIFQEALDCFTAMLSEHTSKLKMAEVIGSK  
LNISRKKAFFCQLYKPEIVINELDLQVGRVRLLRKQSEAVHLQREKFTFAATRPSSVLI  
EQLAVCVSKGEPVLLVGETGTGKTSTIQYLAHITGHRLRVNMNQSDTADLLGGYKPD  
HKLIWLPLREAFEEFLAQTFSSKKQNTFLGHIQTCYRQKRWDLLRLMQHVHKSANVNDG  
KDSETGLLIKEKWEAFGLRLNHAQQQMKMTENTLLFAFVEGTLAQAVKKGEWILLDEINL  
AAPEILECLSGLLEGSSGSLVLLDRGDTEPLVRHPDFRLFACMNPATDVGKRNLPPGIRN  
RFTELYVEELESKEDLQVLIVDYLKGLSVNKNTVQGIINFYTALRKESGTLVDGTGHRP  
HYSRLTLCRALRFAASNPCGNIQRSLYEGFCLGFLTQLDRASHPIVQKLICQHIVPGNVK  
SLLKQPIPEPKGGRLIQVEGYWIAVGDKPTIDETYILTSSVKLNLRDIVRVVSAGTYPV  
LIQGETSVGKTSLIQWLAATGNHCVRINNHEHTDIQEYIGCYTSDSSGKLVFKEGVLI  
AMRKGWIIIDELNLAPTDVLEALNRLDDNRELLVTETQEVVKAHPRFMLFATQNPPL  
YGGKVLVSRAFRNRFFELHFDLPSSSELETILHKRCSLPPSYCSKLVKVMLDLQSYRRSS  
SVFAGKQGFITLRLFRWAERYRLAEPTEKEYDWLQHLANDGYMLLAGRVRKQEEIDVIQ  
EVLEKHFFKKLCPQSLFSKENVLKLLGKLSTQISTLECNFGHIVWTEGMRRLAMLVGRAL  
EFGEPVLLVGDTGCGKTTICQVFAALANQKLYSVSCHLMETSDFLGGLRPVRQKPNDKE  
EIDTSRLFEWHDGPLVQAMKEDGFLLDEISLADDSVLERLNSVLEVEKSLVLAEKGSPE  
DKDSEIELLTAGKKFRILATMNPGGDFGKKELSPALNRNFTFIWCPQSTSREDLIQIISH  
NLRPGLCLGRIDPKGSDIPEVMLDFIDWLTHQEFGRKCVVSIRDILSWVFMNKMGEAAA  
LKRPEIISTVTSFVHAACLVIYIDGIGSGVTSSGFGTALLARKECLKFLIKRLAKIVRLTE  
YQKNELKIYDRMKAKEFTGIDNLWGIHPFFIPRGPVLRNNIADYALSAGTTAMNAQRLL  
RATKLKKPILLEGSPGVGKTSLVGALAKASGNTLVRINLSEQTDITDLFGADLPVEGGKG  
GEFAWRDGPLLAALKAGHWVLDLNLASQSVLEGLNACFDHRGEIYVPELGMSFQVQHE  
KTKIFGCQNPFRQGGGRKGLPRSFLNRFTQVFVDPLTVIDMEFIASLTFPAIEKNIVKKM  
VAFNNQIDHEVTVEKKWGQKGGPWEFNLRLDLFRWCQLMLVDQSPGCYDPGQHVFLVYGER  
MRTEEDKKKVIAVFKDVFGSNSNPYMGTRLFRITPYDVQLGYSVLSRGSCVPHPSRHPLL  
LLHQSFPQLESIMKCVQMSWMVILVGPAVGKTSLVQLLAHLTGHTLKMAMNSAMDTTE  
LLGGFEQVDLIRPWRRLLEKVEGTVRALLRDSLLISADDAEVVLRASHFLLTYKPKCLG  
EGGKAITMEIVNKLEAVLLMQRLNNKINSYCKAEFAKLVEEFRSFGVKLTQLASGHSBG  
TFEWDVSMVLVQALKSGDWLLMDNVNFCNPSVLDRLNALLEPGGVLTIISERGMIDGSTPTI  
TPNPNFRLFLSMDPVHGDISRMRNRGLEIYISGEGDASTPDNLDKVLHSLGLVGNSV  
CDILLALHTETRSTVVGSTSSVSTLIQTAILIVQYLQRLSLDRAFSEACWEVYVCSQH

SPANRKL VQALLEKHVSS LRAHETW GDSILGMGLWPDSVPSALFATEDSHLSTVRRDQI  
LVYCLNRMSMKTSSWTRSQPFTLQDLEKIMQSPSPENLKFNAVEVNTY WIDEPDVLVMAV  
KLLIERATNQDWMLRVKWL YHLAKNIPQGLES IQIHLEASAASLRNFYSHSLSGAVSNVF  
KILQPNTTDEFV IPLDPRWNMQALDMIRNLMDFDPQTDQPDQLFALLESAANKTII YLDR  
EKRVFTEANLVS VGSKKLRESVLRMSFEFHQDPESYHTLPHEIVVNLA AFFELCDALVLL  
WVQSSQGMVSDASANEILGSLRWRDRFWTVADTVKVDAPGLALLALHWHWVLKHLVHQIP  
RLLMNYEDKYYKEVQTVSEHIQNCLGSQTGGFAGIKKLQKFLGRPPFPKDKLVVECFSQL  
KVLNKVLAIREQMSALGESGWQEDINRLQVVASQWTLKKSLLQAWGLILRANILEDVSLD  
ELKNFVHAQCLELKAKGLSLGFLEKKHDEASSLSHPDLTSV IHLTRSVQLWPAMEYLAML  
WRYKVTADFMAQACLRRC SKNQPPQINEEISHLISFCLYHTPVT PQELRDLWSLLHHQKV  
SPEEITSLWSELFNSMFMSFWSSSTVT TNPEYWMWNPLPGMQQREAPKSVLDSTLKGPNGN  
LNRPIFSKCCFEVLTSSWRASPWDVSGLPILSSSHVTLGEWVERTQQQLQDISSMLWTNMA  
ISSVAEFRRTDSQLQGQVLFRLAGLAELL PESRRQEYMQNCEQLLLGSSQAFQHVGQTL  
GDMAGQEVL PKELLCQLLTSLHHFVGEGESKRSLPEPAQRGSLWVSLGLLQIQTWLPQAR  
FDP AVKREYKLN YVKEELHQLQCEWKTRNLSSQLQTGRDLEDEVVVSYPHVRLLRQRM  
DRLDNL TCHLLKKQAFRPQLPAYESLVQEIHHYVTSIAKAPAVQDLLTRLLQALHIDGPR  
SAQVAQSLLKEEASWQQSHHQFRKRLSEYTFYPDAVSPLQASILQLQHGMRLVASELHT  
SLHSSMVGADRLGLTALLAFPSVGPTFTPTYYAHADTLC SVKSEEVLRGLGKLILKRSG  
GKELEGKGQKACPTREQLLMNALLYLRSHVLCKGELDQRALQLFRHVCQEII SEWDEQER  
IAQEKAEQESGLYRYSRNSRTALSEEEEEEREFKRQFPLHEKDFADILVQPTLEENKGT  
SDGQEEEEAGTNPALLSQNSMQAVMLIHQQCLNFARSLWYQQTLPPHEAKHYLSLFLSCY  
QTGASLVTHFYPLMGVELNDRLLGSQLLACTLSHNTLFGEAPSDLMVKPDGPYDFYQHPN  
VPEARQCQPV LQGFSEAVSHLLQDWPEHPALEQLLVMDRIRSFPLSSPISKFLNGLEIL  
LAKAQDWEENASRALSLRKHLDLISQMIIRWRKLELNCWSMSLDNTMKRHTEKSTKHWF  
SYQMLEKHMQEQT EEQEDDKQMTLMLLVSTLQAFIEGSSSLGEFHVRLQMLLVFHCHVLLM  
PQVEGKDSLCSVLWNLYHYHKQFDRVQAKIVELRSPLEKELKEFVKISKWNDVSFWSIK  
QSVEKTHRTL FKFMMKFEAVLSEPCRSSLVESDKEEQPDFLPRPTDGAASELSSIQNLNR  
ALRETLAQAAGQATIP EWCQAAPSGLEGELLRRLPKLRKMRKMCLTFMKESPLPRL  
VEGLDQFTGEV ISSVSELQSLKVEPSAEKEKQRSEAKHILMQKQRALSDFKHLAKIGLS  
YRKGLAWARSKNPQ EMLHLHPLDLQSALSIVSSTQEADSRLLTEISSWDGCQKYFYRSL  
ARHARLNAALATPAKEMGMGNVERCRGFS AHLMKMLVRQRRSLTTLSEQWII LRNLSCV  
QEIH SRLMGPQAYPVAFPPQDGVQQWTERLQH LAMQCILLEQLSWLLQCCPSVGPAPGH  
GNVQVLGQPPGPCLEGP ELSKGQLCGVVLDLIPSNLSYPSPIPGSQLPSGCRM RKQDHLW  
QQSTTRLTEMLKTIKTVKADVDKIRQQSCETL FHSWKDFEVCSSALSCLSQVSVHLQGLE  
SLFILPGMEVEQRDSQ MALVESLEYVRGEISKAMADFTTWKTHLLTSDSQGGNQMLDEGF  
VEDFSEQMEIAIRAILCAIQNLEERKNEKAEENTDQASPQEDYAGFERLQSGHLTKLLED  
DFWADVSTLHVQKIIISAISELLERL KSYGEDGTA AKHLFFSQSCSLLVRLVPVLSSYSDL  
VLFFLTMSLATHRSTAKLLSVLAQVFTELAQKGFC LKPEFMEDSAGEGATEFH DYEGGGI  
GEGEGMKDVSDQIGNEEQVEDTFQKGQEKDKEDPDSKSDIKGEDNAIEMSEDFDGKMHDG  
ELEEQEEDDEKSDSEGGDL DKHMGDLNGEEADKLDERLWGDDDEEEDDEEEDNKTEETGP  
GMDEEDSELVAKDDNLDSGNSNKDKSQQDKKEEKEEAEADDGGQGEDKINEQIDERDYDE  
NEVDPHYGNQEKVPEPEALDLPDDLNL DSEDKNGGEDTNEEGEEENPLEIKEKPEEAGH  
EAEERGETETDQNESQSPQEPEEGPSEDDKAE GEEEMDTGADDQGDAAQHPEEHSEEQQ  
QSVEEKDKEADEEGGENGPADQGFQPQEEEEEREDSDTEEQVPEALERKEHASCGQTGVEN

MQNTQAMELAGAAPEKEQGKEEHGSGAADANQAEGHESNFIAQLASQKHTRKNTQSFKRK  
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QTYDVASKEQQQSAKDSGKDQEEEEIEDTLMDEEQEEFKAADVEQLKPEEIKSGTTAPL  
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VNELRQELERQLEMWQPRESGNPEEEKVAAEMWQSYLILTAPLSQRLCEELRLILEPTQA  
AKLKG DYRTGKRLNIRKVIPIYIASQFRKDKIWLRRTPSKRQYQICLAIDSSSMVDNHT  
KQLAFESLAVIGNALTLLLEVQGIIVCSFGESVKLLHPFHEQFSDYSGSQILRLCKFQQKK  
TKIAQFLESVANMFAAAQQLSNISSETAQLLLVVS DGRGLFLEGKERVLA AVQAARNAN  
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>sp|Q15648|MED1\_HUMAN Mediator of RNA polymerase II transcription subunit 1 OS=Homo  
sapiens GN=MED1 PE=1 SV=4

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ILHENVSRSLGMNASVTIEGTSVYKLP IAPLIMGSHPVNDKWTSPSFSSITSANSVDLP  
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QALNTLGVPM LGDNGETKFKGNNQADTVDFSII SVAGKALAPADLMEHHSQS QGPLLTT  
GDLGKEKTQKRKVEGNGTSNSTLSGPGLD SKPGKRSRTPSNDGKSKDKPPKRKKADTEGK  
SPSHSSSNRPFTPPTSTGGSKSPGSAGRSQTPPGVATPPIPKITIQIPKGTVMVGKPSH  
SQYTSSGSVSSSGSKSHSHSSSSSSASTSGMKMSSKSESSSSKLSSSMYSSQSSGS  
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GSDKLASPMKVPVGTTPSSKAKSPISSGSGGSHMSGTSSSSGMKSSSGLSSGSLSQKTP  
PSSNSTASSSSFSSSGSSMSSSQNHGSSKGKSPSRNKKPSLTAVIDKLKHGVVTS GPG  
GEDPLDGQMVGSTNSSSHPMSSKHNMSSGGEFQKREKSDKDKSVSTSGSSVDSSKKTSE  
SKNVGSTGVAKIIISKHDGGSPSIKAVTLQKPGESSGEGLRPMAS SKNYGSPLISGST  
PKHERGSPSHSKSPAYTPQNLDSESESGSSIAEKSYQNSPSSDDGIRPLPEYSTEKHKKH  
KKEKKKVKDKDRDRDRDKDRDKKSHSIKPESWSKSPISSDQSLSMTSNTILSADRP SRL  
SPDFMIGEEDDLMDVALIGN

>sp|Q12866|MERTK\_HUMAN Tyrosine-protein kinase Mer OS=Homo sapiens GN=MERTK PE=1 SV=2

MGPAPLP LLLGLFLPALWRRATEAREEAKPYLPFGPFGSLQTDHTPLLSLPHASGYQ  
PALMFSTPQGRPHGTGNAIPQVTSVESKPLPPLAFKHTVGHII LSEHKGVKFNC SISVP  
NIYQD TTISWWKDGKELLGAHHAITQFYPDDEVTAIIASF SITSVQRS DNGSYICKMKIN  
NEEIVSDPIYIEVQGLPHFTKQPESMNVTRNTAFNLTCQAVGPPEPVNIFWVQNSSRVNE

QPEKSPSVLTPGLTEMAVFSCEAHNDKGLTVSKGVQINIKAI P SPPTEV SIRNSTAHSI  
LISWVP GFDGYSPFRNC SIQVKEADPLSNGSVMIFNTSALPHLYQIKQLQALANYSIGVS  
CMNEIGWSAVSPWILASTTEGAPSVAPLNVTVFLNESSDNVDIRWMKPPTKQD GELVGY  
RISHVWQSAGISKELLEEVGGNGSRARISVQVHNATCTVRIA AAVTRGGVGPFS DPVKIFI  
PAHG WVDYAPSSTPAPGNADPVLIIFGCF CGFILIGLILYISLAIRKRVQETKFGNAFTE  
EDSELVVNYIAKKSFCRRRAIELTLHSLGVSEELQNKLEDVVIDRNLLILGKILGEGEFGS  
VMEGNLKQEDGTS LK VAVKTMKLDNSSQREIEEFLSEAACMKDFSHPNVIRLLGVCIEMS  
SQGIPKPMVILPFMKY GDLHTYLLYSRLETGPKHIPLQTLLKFMVDIALGMEYLSNRNFL  
HRDLAARNCMLRDDMTVCVADFGLSKKIYSGDYRQGRIAKMPVKWIAIESLADRVYTSK  
SDVWAFGVTMWEIATRGMPYPGVQNH EMYDYLLHGHRLKQPEDCLDELYEIMYSCWRTD  
PLDRPTFSVLRLQLEK LLES LPDVRNQADV IYVNTQLLESSEGLAQGSTLAPLDLNIDPD  
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RLVRNGVSWSHSSMLPLGSSLPDELLFADDSSEGSEVLM

>sp|Q5EB52|MEST\_HUMAN Mesoderm-specific transcript homolog protein OS=Homo sapiens  
GN=MEST PE=2 SV=2

MVRRDR LRRMREWWVQVGLLAVPLLAAYLHIPP PQLSPALHSWKSSGKFFTYKGLRIFYQ  
DSVG VVGSPEIVVLLHGFTSSYDWYKIWEGLTLRFHRVIALDFLGFGFS DKPRPHHYSI  
FEQASIVEALLRHLGLQNRRLNLLSHDYGDIVAQELLYRYKQNRSGRLTIKSLCLSNNGI  
FPETHRPLLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPYTRPSESELWDMWAGIR  
NNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHF IYGPLDPVNPYEFLELYRKTL  
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>sp|Q8TCB7|METL6\_HUMAN Methyltransferase-like protein 6 OS=Homo sapiens GN=METTL6 PE=2  
SV=2

MASLQRKGLQARILTSEEEKLRDQTLVSDFKQKLEQEAQKNWDLFYKRNSTNFFKDR  
HWTTRFEELRSCREFEDQKLTMLEAGCGVGNCLFPLEEDPNIFAYACDFSPRAIEYVK  
QNPLYDTERCKVFQCDLTKD LLDHVPPESDV VMLIFVLSAVHPDKMHLVLQNIYKVLK  
PGKSVLFRDYGLYDHAMLRFKASSKLGENFYVRQDGTRSYFFTD DFLAQLFMDTG YEEVV  
NEYVFRET VNKKEGLCVPRVFLQSKFLKPPKNPSPVVLGLDPKS

>sp|Q9H1A3|METL9\_HUMAN Methyltransferase-like protein 9 OS=Homo sapiens GN=METTL9 PE=2  
SV=1

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REKLCESLQAVFVQSYLDQGTQIFLNNSIEKSGWLF IQLYHSFVSSVFSLFMSRTSINGL  
LGRGSMFVFS PDQFQRLLKINPDWKTHRLLDLGAGDGEVTKIMSPHFEEIYATELSETMI  
WQLQKKKYRVLG INEWQNTGFQYDVISCLNLLDRCDQPLTLLKDIRSVLEPTRGRVILAL  
VLPFHPYVENVGKWEKPSEILEIKGQNWEEQVNSLPEVFRKAGFVIEAFTRLPYLCEGD  
MYNDYYVLDDAVFVLKPV

>sp|Q8N468|MFD4A\_HUMAN Major facilitator superfamily domain-containing protein 4A OS=Homo  
sapiens GN=MFSD4A PE=2 SV=3

MGCDGRVSGLLRRNLQPTLTYWSVFFSFGLCIAFLGPTLLDLRCQTHSSLPQISWVFFSQ  
QLCLLLGSALGGVFKRTLAQSLWALFTSSLAISLVFAVIPFCRDVKVLASVMALAGLAMG  
CIDTVANMQLV RMYQKDSAVFLQVLHFFVGFGALLSPLIADPFLSEANCLPANSTANTTS  
RGHLFHVSRLVGGHHVDAKPWSNQTFPGLTPKDGAGTRVSYAFWIMALINLPVPM AVLML  
LSKERLLTCCPQRRPLLLSADELALETQPPEKEDASSLP PKFQSHLGHEDLFSCCQRKNL  
RGAPYSFFAIHITGALVLFMTDGLTGAYSAFVYSYAVEKPLSVGHKVAGYLP SLFWG FIT



LGRLLSIPISSRMKPATMVFINVVGVVVTFVLVLLIFSNNVFLVFGTASLGLFLSSTFPS  
MLAYTEDSLQYKGCATTVLVTGAGVGEMVLQMLVGSIFQAQGSYSFLVCGVIFGCLAFTF  
YILLFFHRMHPGLPSVPTQDRSIGMENSECYQR

>sp|Q9GZY8|MFF\_HUMAN Mitochondrial fission factor OS=Homo sapiens GN=MFF PE=1 SV=1

MSKGTSSDTSLSGRVSRAAFPSPTAAEMAEISRIQYEMEYTEGISQRMVPEKLVAPPNA  
DLEQGFQEGVPNASVIMQVPERIVVAGNNEDVSFSRPADLDLIQSTPFKPLALKTPPRVL  
TLSEPLDFDLERPPPTTPQNEEIRAVGRLKRERSMSENAVRQNGQLVRNDSLWHRSDSA  
PRNKISRFQAPISAPEYTVTPSPQARVCPHMLPEDGANLSSARGILSLIQSSTRRAYQ  
QILDVLDENRRPVLRGGSAAATSNPHHDNVRYGISNIDTTIEGTSDDLTVVDAASLRRQI  
IKLNRRLQLLEENKERAKREVMYSITVAFWLLNSWLWFR

>sp|Q08431|MFGE8\_HUMAN Lactadherin OS=Homo sapiens GN=MFGE8 PE=1 SV=2

MPRPRLLAALCGALLCAPSLLVALDICSKNPCHNGGLCEEISQEVGRGVFSPYCTCTCLKG  
YAGNHCETKCEPLGMENGIANSQIAASSVRVTFGLQHWPELARLNRAGMVNAWTPS  
SNDDNPWIVQVNLRRMWVTGVVTQGASRLASHEYLKAFKVAYSLNGHEFDIHDVNNKKHK  
EFVGNWNKNAHVNLFETPVEAQVRLYPTSCHTACTLRFELLGCELNGCANPLGLKNNS  
IPDKQITASSSYKTWGLHLFSWNPSYARLDKQGNFNAWVAGSYGNDQWLQVDLGSSEVT  
GIITQGARNFGSVQFVASYKVAYSNDANWTEYQDPRTGSSKIFPGNWDNHSKKNLFE  
PILARYVRILPVAWHNRALRLELLGC

>sp|P16455|MGMT\_HUMAN Methylated-DNA--protein-cysteine methyltransferase OS=Homo sapiens  
GN=MGMT PE=1 SV=1

MDKDCMKRTTLDSPGLKLESGCEQLHEIKLLGKGTSAADAVEVPAPAAVLGGPEPLM  
QCTAWLNAYFHQPEAIEEFVPALHHPVFQQESFTRQVLWKLKVVKFGEVISYQQLAAL  
AGNPKAARAVGGAMRGNPVPILIPCHRVCCSSGAVGNYSGLAVKEWLLAHEGHRLGKPG  
LGGSSGLAGAWLKAGATSGSPAGRN

>sp|P08493|MGP\_HUMAN Matrix Gla protein OS=Homo sapiens GN=MGP PE=1 SV=2

MKSLILLAAILAALAVTLCYESHESMESYELNPFINRRNANTFISPQQRWRAKVQERIRE  
RSKPVHELNREACDDYRLCERYAMVYGYNAAYNRYFRKRRGTK

>sp|Q9H1L0|MIR1HG\_HUMAN Uncharacterized protein MIR1-1HG OS=Homo sapiens GN=MIR1-1HG PE=4  
SV=1

MPSCSCALMAPCGPAAGPAAVERTQQVARGEPSARGQLQVSPEMSITHKEKENAHLKEI  
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>sp|Q8TDZ2|MICAL1\_HUMAN Protein-methionine sulfoxide oxidase MICAL1 OS=Homo sapiens  
GN=MICAL1 PE=1 SV=2

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RHNVLHLWPFTIHDRLALGAKKFYGRFCTGTLDHISIRQLQLLLKVALLLGVEIHWGVT  
FTGLQPPPRKSGSWRAQLQPNPPAQLANYEFDVLISAAGGKFVPEGFKVREMRGKLAIGI  
TANFVNGRTVEETQVPEISGVARIYNQSFFQSLLKATGIDLENIVYYKDDTHYFVMTAKK  
QCLRLGLVLRQDWPDTNRLGASANVVPEALQRFTRAAADFATHGKLKLEFAQDAHGQPD  
VSAFDFTSMRAESSARVQEKHGARLLLGLVGDCLEPFWPLGTGVARGFLAAFDAAMV  
KRWAEGAESLEVLARESLEYQLLSQTSPEMHRNVAQYGLDPATRYPNLNLRAVTPNQVR  
DLYDVLAKEPVQRNNDKTDGMPATGSAGTQEELLRWCQEQTAGYPGVHVSDDLSSWADG  
LALCALVYRLQPGLEPSELQGLGALEATAWALKVAENELGITPVVSAQAVVAGSDPLGL  
IAYLSHFHSAFKSMAHSPGPVSQASPGTSSAVLFLSKLQRTLQRSRAKENAEDAGGKKLR

LEMEAETPSTEVPPDPEPGVPLTPPSQHQEAGAGDLCALCGEHLVLERLCVNGHFFHRS  
CFRCHTCEATLWPGGYEQHPGDGHFYCLQHLPQTDHKAEGSDRGPESELPTPSENSMPP  
GLSTPTASQEGAGVPDPSPQTRRQIRLSSPERQRLSSLNLTPDPEMEPPPKPPRSCSAL  
ARHALESSFVGWGLPVQSPQALVAMEKEEKESPFSSEEEEEDVPLDSQVEQALQTFAKTS  
GTMNNYPTWRRTLLRRAKEEEMKRFCQAQTIQRRLEIEAALRELEAGVKLELALRRQS  
SSPEQQKKLWVGQLQLVDKKNSLVAEEAELMITVQELNLEEKQWQLDQELRGYMNREEN  
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>sp|Q29983|MICA\_HUMAN MHC class I polypeptide-related sequence A OS=Homo sapiens GN=MICA  
PE=1 SV=1

MGLGPVFLLAGIFPFAPPGAAAEPHSLRYNLTVLSWDGSVQSGFLTEVHLDGQPFLRCD  
RQKCRAPQGGWAEDVLGNKTWDRETRDLTGNGKDLRMTLAHIKDQKEGLHSLQEIRVCE  
IHEDNSTRSSQHFYDYGELFLSQNLETKEWTPQSSRAQTLAMNVRNFLKEDAMKTKTHY  
HAMHADCLQELRRYLKSGVLRRTVPPMVNVRSEASEGNITVTCRASGFYPWNITLSWR  
QDGVSLSHDTQQWGDVLPDNGTYQTWVATRICQGEEQRFTCYMEHSGNHSTHPVPSGKV  
LVLQSHWQTFHVSAAAAAIFVIIIFYVRCKKKTSAEGPELVSLQVLDQHPVGTSDHR  
DATQLGFQPLMSDLGSTGSTEGA

>sp|Q9BPX6|MICU1\_HUMAN Calcium uptake protein 1, mitochondrial OS=Homo sapiens GN=MICU1  
PE=1 SV=1

MFRLNSLSALAEAVGSRWYHGGSQPIQIRRRLLMMVAFLGASAVTASTGLLWKRAHAESP  
PCVDNLKSDIGDKGNKDEGDVCNHEKKTADLAPHPEKKKKRSGFRDRKVMYENRIRA  
YSTPDKIFRYFATLKVISEPGEAEVFMTPEDFVRSITPNEKQPEHLGLDQYIIKRFDGKK  
ISQEREKFADEGSIFYTLGECGLISFSDYIFLTTVLSTPQRNFEIAFKMFDLNGDGEVDM  
EEFEQVQSIIRSQTSMGMRHRDRPTTGNTLKSGLCSALTTYFFGADLKGLTIKNFLEFQ  
RKLQHDVLKLEFERHDPVDGRITERQFGGMLLAYSGVQSKKLTAMQRQLKKHFKEGKGLT  
FQEVNFFTFLKNINDVDLTALSFYHMAGASLDKVTMQQVARTVAKVELSDHVCDDVFALF  
DCDNGELSNKEFVSIMKQRLMRGLEKPKDMGFTRLMQAMWKCAQETAWDFALPKQ

>sp|Q9BRT3|MIEN1\_HUMAN Migration and invasion enhancer 1 OS=Homo sapiens GN=MIEN1 PE=1  
SV=1

MSGEPGQTSVAPPPEEVEPGSGVRIVVEYCEPCGFEATYLELASAVKEQYPGIEIESRLG  
GTGAFEIEINGQLVFSKLENGGFPEKDLIEAIRRASNGETLEKITNSRPPCVIL

>sp|Q8N344|MIER2\_HUMAN Mesoderm induction early response protein 2 OS=Homo sapiens  
GN=MIER2 PE=1 SV=2

MAEASSLGRQSPRVVSCLEHSLCPGEPGLQTTAVVSMGSGDHQFNLAELISQNYSVRGEC  
EEASRCPDKPKEELEKDFISQSNMPFDELLALYGEASDPISDRESEGGDVAPNLPDMT  
LDKEQIAKDLLSGEEEEETQSSADDLTPSVTSHEASDLFPNRSGSRFLADEDREPGSSAS  
SDTEEDSLPANKCKKEIMVGPQFQADLSNLHLNRHCEKIYENEDQLLWDPSVLPEREVEE  
FLYRAVKRRWHMAGPQLPEGEAVKDSEQALYELVKCNFNVEEALRRLRFNVKVIIRDGLC  
AWSEEECRNFEHGFRVHGKNFHLIQANKVRTRSVGECVEYYLWKKSERDYDYFAQQTRLG  
RRKYVPSGTTDADQDLGDSPDGPGRPRPEQDTLTGMRTDPLSVDGTAGGLDEPGVASDG  
LPSEPGPCSFQQLDESPAVPLSHRPPALADPASYQPAVTAPEPDASPRLAVDFAFPKEL  
PLISSHVDLSGDPEETVAPAQVALSVTEFGLIGIGDVNPFLAAHPTCPAPGLHSEPLSHC  
NVMTG

>sp|Q9UGB7|MIOX\_HUMAN Inositol oxygenase OS=Homo sapiens GN=MIOX PE=1 SV=1  
MKVTVGPDPSLVYRPDVPDPEVAKDKASFRNYTSGPLLDVFTTYKLMHHTQTVDFVRSKH

AQFGGFSYKKMTVMEAVDLLDGLVDESDPDVDFPNSFHAFQTAEGIRKAHPDKDWFHLVG  
LLHDLGKVLALFGEPQWAVVGDTFPVGCRCQASVVFCSTFQDNPDQLQDPRYSELGMYQ  
PHCGLDRVLMSWGHDEYMYQVMKFNKFSLPPEAFYMRHFSFYFWHTGRDYQQLCSQQDL  
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>sp|Q9ULH7|MKL2\_HUMAN MKL/myocardin-like protein 2 OS=Homo sapiens GN=MKL2 PE=1 SV=3

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MPPLKSPAAFHEQIKSLERARTENFLKHKIRSRPDRSELVRMHILEETFAEPSLQATQMK  
LKRARLADDLNEKIAQRPGPMELVEKNILPVDSSVKEAIIIGVGKEDYPHTQGDFSDEDS  
SDALSPDQPASQESQGSAAASPSEPKVSESPSVTTNTPAQFASVSPTVPEFLKTPPTADQ  
PPRPAAPVLPNTVSSAKPGPALVKQSHPKNPNDKHSKCKDKPKPRVKLKYHYIIPP  
DQKGEKNEPQMDSNYARLLQQQLFLQLQILSQKQHYNYQTILPAPFKPLNDKNSNSGN  
SALNNATPNTPRQNTSTPVRKPGPLPSSLDLKVSELKTELKLRGLPVSGTKPDLIERLK  
PYQEVNSSGLAAGGIVAVSSSAIVTSNPEVTVALPVTTLHNTVTSSVSTLKAELPPTGTS  
NATRVENVHSPLIPSPSEQSSLSTDDTNMADTFTEIMTMMSPSQFLSSSPLRMTNED  
SLSPTSSTLSNLELDAAEKDRKLQEKEKQIEELKRKLEQEQKLVEVLKMQLEVEKRGQQQ  
RPLEAQPSAPGHSVKSQKHGSLGSSIKDEASLPDCSSSRQPIPVASHAVGQPVSTGGQT  
LVAKKAVVIKQEVVPVGGAEQQSVVSQFYVSSQGQPPPAVVAQPQALLTTQTAQLLLPVSI  
QGSSVTSVQLPVGSLKLQTSPQAGMQTPQIATAAQIPTAALASGLAPTVPQTQDTFPQH  
VLSQPQQVRKVFTNSASSNTVLPYQRHPAPAVQQPFINKASNSVLQSRNAPLPSLQNGPN  
TPNKPSSPPPPQGFVVQHSFLGSPVAKTKDPPRYEEAIKQTRSTQAPLPEISNAHSQQMD  
DLFDILIKSGEISLPIKEEPSISKMRPVTAITTMPVNTVVSRRPPQVQMAPPVSLEPM  
GSLASLENQLEAFDLGTLPSANEIPPLQSSSEDREPFSLIEDLQNDLLSHSGMLDHS  
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QDLPLPWD

>sp|Q9UHC7|MKRN1\_HUMAN E3 ubiquitin-protein ligase makorin-1 OS=Homo sapiens GN=MKRN1  
PE=1 SV=3

MAEAATPGTTATTSGAGAAAATAAAASPTPIPTVTAPSLGAGGGGGSDGSGGGWTKQVT  
CRYFMHGVCKEGDNCRYSHDLSDSPYSVVCKYFQRGYCIYGDRCRYEHSKPLKQEEATAT  
ELTTKSSLAASSLSSIVGPLVEMNTGEAERSNSNFATVGAGSEDWVNAIEFVPGQPYCG  
RTAPSCTEAPLQGSVTKEESEKEQTAVETKKQLCPYAAVGECRYGENCVYLHGDSCDMCG  
LQVLHPMDAAQRSQHIKSCIEAHEKDMELSAVQSRKDMVCGICMEVVEKANPSERRFG  
ILSNCNHTYCLKCIKRWRSKQFESKIIKSCPECRITSNFVIPSEYWVEEKEEKQLILK  
YKEAMSNKACRYFDEGRGSCPFGGNCFYKHAYPDGRREEPQRQKVGTSRYRAQRRNHF  
WELIEERENSNPFDNDEEEVTFELGEMLLMLLAAGGDELTDSEDEWDLFHDELEDFYDL  
DL

>sp|P19105|ML12A\_HUMAN Myosin regulatory light chain 12A OS=Homo sapiens GN=MYL12A PE=1  
SV=2

MSSKRTKTKTKRKPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASL  
GKNPTDEYLDAMMNEAPGINFTMFLTMFGEKLNGLDPEDVIRNAFACFDEEATGTIQED  
YLRELLTMTGDRFTDEEVDLYREAPIDKKGNFNYIEFTRILKHGAKDKDD

>sp|O14950|ML12B\_HUMAN Myosin regulatory light chain 12B OS=Homo sapiens GN=MYL12B PE=1  
SV=2

MSSKKAKTKTKTKRKPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLAS  
LGKNPTDAYLDAMMNEAPGINFTMFLTMFGEKLNGLDPEDVIRNAFACFDEEATGTIQE

DYLRELLTTMGDRFTDEEVDELYREAPIDKKGNFNYIEFTRILKHGAKDKDD

>sp|Q9BXW4|MLP3C\_HUMAN Microtubule-associated proteins 1A/1B light chain 3C OS=Homo sapiens GN=MAP1LC3C PE=1 SV=1

MPPPPQKIPSVRPFKQKSLAIRQEEVAGIRAKFPNKIPVVVERYPRETFPLPLDKTKFLV  
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SQETFGCLESAAPRDGSSLEDRPCNPL

>sp|Q9NYL2|MLTK\_HUMAN Mitogen-activated protein kinase kinase kinase MLT OS=Homo sapiens GN=ZAK PE=1 SV=3

MSSLGASFVQIKFDDLQFFENC GGGSFGSVYRAKWISQDKEVAVKKLLKIEKEAEILSVL  
SHRNIIQFYGVILEPPNYGIVTEYASLGSLYDYINSNRSEEMDMDHIMTWATDVAKGMYH  
LHMEAPVKVIHRDLKSRNVIAADGVLKICDFGASRFHNHTHMSLVGTFPWMAPEVIQS  
LPVSETCDTYSYGVVLWEMLTREVFPKGLEGLQVAWLVEKNERLTI PSSCPRSFAELLH  
QCWEADAKKRPSFKQII SILESMSNDTSLPDKCNSFLHNKAEWRCIEATLERLKKLERD  
LSFKEQELKERERRLKMWEQKLTEQSNTPLLPSFEIGAWTEDDVYCWVQQLVRKGDSSAE  
MSVYASLFKENNITGKRLLLLLEEDLKDMGIVSKGHI IHFKAIEKLTHDYINLFHFPPL  
IKDSGGEPEENEEKIVNLELVFGFHLKPGTGPQDCKWKMYMEMDGEIAITYIKDVTFNT  
NLPDAEILKMTKPPFVMEKWIVGIAKSQTVECTVTYESDVRTPKSTKHVHSIQWSRTKPQ  
DEVKAVQLAIQTLFTNSDGNPGSRSDSSADCQWLDTLRMRQIASNTSLQRSQSNPILGSP  
FFSHFDGQDSYAAAVRRPQVP IKYQQITPVNQSRSSSPTQYGLTKNFSSLHLNSRDSGFS  
SGNTDTSSERGRYSRDRSNKYGRGSI SLNSSPRGRYSGKSQHSTPSRGRYPGKFYRVSQS  
ALNPHQSPDFKRSRDLHQNTIPGMPLHPETDSRASEEDSKVSEGGWTKVEYRKKPHRP  
SPAKTNKERARGDHRGWRNF

>sp|Q8N4V1|MMGT1\_HUMAN Membrane magnesium transporter 1 OS=Homo sapiens GN=MMGT1 PE=1 SV=1

MAPSLWKGLVGIGLFALAHAAFSAAQHRSYMRLTEKEDESLPIDIVLQTLLAFVTCYGI  
VHIAGEFKMDATSELKNKTFDTLRNHPSFYVFVFNHGRVLF RPSDTANSSNQDALSSNTS  
LKLRLKLESLRR

>sp|Q10571|MN1\_HUMAN Transcriptional activator MN1 OS=Homo sapiens GN=MN1 PE=1 SV=3

MFGLDQFEPQVNSRNAGQGERNFNETGLSMNTHFKAPAFHTGGPPGPVDPAMSALGEPPI  
LGMNMEPYGFHARGHSELHAGGLQAQPVHGFQGGQQPHHGHPSHHPHQHHPHFGGNFQGG  
PDPGASCLHGGRLLGYGAAGGLGSQPPFAEGYEHMAESQGPESFGPQRPGNLPDFHSSG  
ASSHAVPAPCLPLDQSPNRAASFHGLPSSSGSDSHSLEPRRVTNQGAVDSEYNYPGEAP  
SGHFDMFSPDSEGQLPHYAAGRQVPGGAFPGASAMPRAAGMVGLSKMHAQPPQQPQQQ  
QQPQQQQQQHGVFFERFSGARKMPVGLEPSVGSRHPLMQPPQQAPPPQQPPQQPPQQQ  
PPPPPGLLVRQNSCPPALPRPQQGEAGTPSGGLQDGGPMLPSQHAQFEYPIHRLNRSMH  
PYSEPVFMSQHPPPPQAPNQLQHFDAPPYMNVAKRPRFDFPGSAGVDRCASWNGSMHNG  
ALDNLHSPSAYPGLPGEFTPPVPDSFSPGPPLQHPAPDHQSLQQQQQQQQQQQQQQQQQ  
QQQQQQQQQQQNAALMIKQMASRNQQQRLRQPNLAQLGHPGDVGQGGLVHGGPVGGLAQ  
PNFEREGGSTAGRLGTFEQQAPHLAQESAWFSGPHPPPGDLLPRRMGGSGLPADCGPHD  
PSLAPPPPPGGSGVLFRGPLQEPMRMPGEGHVPALPSPGLQFGGSLGGLGQLQSPGAGVG  
LPSAASERRPPPPDFATSALGGQPGFPFGAAGRQSTPHSGPGVNSPPSAGGGGGSSGGGG  
GGGAYPPQPDFQPSQRTSASKLGALSLSFNKPSKDNLFQGSCLAALSTACQNMIASLG  
APNLNVTFNKKNPPEGKRKLSQNETDGAAGNPGSDYFPGGTAPGAPGPGPSGTSSSG  
SKASGPPNPPAQGDGTSLSPNYTLESTSGNDGKPVSGGGGRGRRRKRDSGHVSPGTFFD

KYSAAPDSGGAPGVSPGQQQASGAAVGGSSAGETRGA TPHEKALTSPSWGKGAELL LGD  
QPD LIGSLDGGAKSDSSSPNVGEFASDEVSTSYANEDEVSSSSDNPQALVKASRSPLVTG  
SPKLPPRGVGAGEHGP KAPPPALGLGIMSNTSTPDSYGGGGGPGHPGTPGLEQVRTPTS  
SSGAPPPDEIHPLEILQAAQIQLQRQQFSISEDQPLGLKGKKGEC AVGASGAQNGDSELG  
SCCSEAVKSAMSTIDLDSLMAEHSAAWYMPADKALVDSADDDKTLAPWEKAKPQNPNSKE  
AHDLPANKASASQPGSHLQCLSVHCTDDVGD AKARASVPTWRSLHSDISNRFGT FVAALT  
>sp|Q96RQ3|MCCA\_HUMAN Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial  
OS=Homo sapiens GN=MCCC1 PE=1 SV=3

MAAASAVSVLLVAAERNRWHRLPSLLLPRTWVWRQRTMKYTTATGRNITKVL IANRGEI  
ACRVMRTAKKLGVQTVAVYSEADRNSMHVDMAD EAYSIGPAPSQQSYLSMEKIIQVAKTS  
AAQAIHPGCGFLSENMEFAELCKQEGII FIGPPPSAIRDMGIKSTSKS IMAAAGVPVVEG  
YHGEDQSDQCLKEHARRIGYPVMIKAVRGGGKGMRIVRSEQEFQEQL ESARREAKKSFN  
DDAMLIEKFVDTPRHVEVQVFGDHHGNAVYLFERDCSVQRRHQK IIEEAPAPGIKSEVRK  
KLGEAAVRAAKAVNYVGAGTVEFIMDSKHNFCF MEMNTRLQVEHPVTEMITGTDLVEWQL  
RIAAGEKIPLSQEETLQGHAFEAR IYAEDPSNNFMPVAGPLVHLSTPRADPSTRIETGV  
RQGDEVSVHYDPMIAKL VVWAADRQAALTKLRYSLRQYNI VGLHTNIDFLLNLSGHPEFE  
AGNVHTDFIPQHHKQLLSRKA AAKESLCQAALGLILKEKAMTDTFTLQAHDQFSPFSSS  
SGRRLNISYTRNMTLKDGKNNVAIAVTYNHDGSYSMQIEDKTFQVLGNLYSEG DCTYLKC  
SVNGVASKAKLIILENTIYLF SKEGSIEIDIPVPKYLSSVSSQETQGGPLAPMTGTIEKV  
FVKAGDKVKAGDSLMMVMIAMKMEHTIKSPKDGTVKKVFYREGAQANRHTPLVEFE EEEESD  
KRESE

>sp|Q96PE7|MCEE\_HUMAN Methylmalonyl-CoA epimerase, mitochondrial OS=Homo sapiens GN=MCEE  
PE=1 SV=1

MARVLKAAAAANAVGLFSRLQAPI TVRASSTSQPLDQVTGSVWNLGRLNHVAIAVPDLEK  
AAAFYKNILGAQVSEAVPLPEHGVSVVFN LGNTKMELLHPLGRDSPIAGFLQKNKAGGM  
HHICIEVDNINAAMDLKKKKIRSLSEEVKIGA HGKPVIFLHPKDCGGVLVELEQA

>sp|Q8NI22|MCFD2\_HUMAN Multiple coagulation factor deficiency protein 2 OS=Homo sapiens  
GN=MCFD2 PE=1 SV=1

MTMRSLLRTPFLCGLLWAFCAPGARAEEPAASF SQPGSMGLDKNTVHDQEHIMEHLEGVI  
NKPEAEMSPQELQLHYFKMHDYDGN NLLDGLLELSTAITHVHKEEGSEQAPLMSEDELINI  
IDGVLRDDDKNNDGYIDYAEFAKSLQ

>sp|P20382|MCH\_HUMAN Pro-MCH OS=Homo sapiens GN=PMCH PE=1 SV=3  
MAKMNLSSYILILTFSLFSQGILLSASKSIRNLDDDMVFNTFRLGKGFQKEDTAEKSVIA  
PSLEQYKNDESSFMNEEENKVS KNTGSKHNFLNHGLPLNLAIKPYLALKGSVAFPAENGV  
QNTTESTQEKEIGDEENSAKFP IGRDFDMLRCMLGRVYRPCWQV

>sp|Q8TDD5|MCLN3\_HUMAN Mucolipin-3 OS=Homo sapiens GN=MCLN3 PE=2 SV=1

MADPEVVVSSCSSHEEENRCNFNQQTSPSEELLLEDQMRRKLKFFFMNPCEKFWARGRKP  
WKLAIQILKIAMVTIQLVLFGLSNQM VVAFKEENTIAFKHLFLKGYMDRMDDTYAVYTQS  
DVYDQLIFAVNQYLQLYNVSVGNHAYENKGTKQSAMAICQHFYKRGNIYPGNDTFDIDPE  
IETECFFVEPDEPFHIGTPAENKLNLT LDFHRLLTVELQFKLKA INLQTVRHQELPDCYD  
FTLTITFDNKAHSGRIKISLDNDISIRECKDWHVSGSIQKNTHYMMIFDAFVILTCLVSL  
ILCIRSVIRGLQLQ QEFVNFFLLHYKKEVS VSDQMEFVNGWYIMIIISDILTIIGSILKM  
EIQAKSLTSYDVCSILLGTSTMLVWLGVI RYLGFFAKYNLLILTLQAALPNVIRFCCCAA  
MIYLGYCFCGWIVLGPYHDKFRSLNMVSECLFSLINGDDMFATFAKMQQKSYLVWLF SRI

YLYSFISLFIYMILSLFIALITDTYETIKQYQQDGFPELRTFISECKDLPNSGKYRLE  
DDPPVSLFCCCKK

>sp|Q7L590|MCM10\_HUMAN Protein MCM10 homolog OS=Homo sapiens GN=MCM10 PE=1 SV=2

MDEEDNLSLLTALLEENESALDCNSEENNFLTRENGEPDAFDELFDADGDGESYTEEAD  
DGETGETRDEKENLATLFGDMEDLTDEEEVPASQSTENRVLPAPAPRREKTNEELQEELR  
NLQEQMKALQEQLKVTTIKQTASPARLQKSPVEKSPRPPLKERRVQRIQUESTCFS AELDV  
PALPRTKRVARTPKASPPDPKSSSRMTSAPSQPLQTI SRNKPSGITRGQIVGTPGSSGE  
TTQPICVEAFSGLRLRRPRVSSSTEMNKKMTGRKLI RLSQIKEKMAREKLEEIDWVTFGVI  
LKKVTPQSVNSGKTF SIWKLNDLRDLTQCVSLFLFGEVHKALWKTEQGTVVGILNANPMK  
PKDGSEEVCLSIDHPQKVLIMGEALDLGTCKAKKKNGEPCTQTVNLRDCEYCYHVQAQY  
KKLSAKRADLQSTFSGGRIPKKFARRGTS LKERLCQDGFY YGGVSSASYAASIAAAVAPK  
KKIQTTLNLVVKGTNLI IQETRQKLGI PQKSLSCSEEFKELMDLPTCGARNLKQHLAKA  
TASGIMGSPKPAIKSISASALLKQKQRMLEMRRRKSEEIQKRFLQSSSEVESPAVPSSS  
RQPPAQPPRTGSEFPRLEGAPATMPKLGRGVLEGGDVL FYDESPPPRPKLSALAEAKKL  
AAITKLRAKGQVLTKTNPSIKKKQKDPQDILEV KERVEKNTMFSSQAEDELEPARKKRR  
EQLAYLESEEFQKILKAKSKHTGILKEAEAEMQERYFEPLVKKEQMEEKMRNIREVKCRV  
VTCKTCAYTHFKLLETVCVSEQHEYHWHDGVKRFFK CPCGNRSISLDRLPNKHCSNCGLYK  
WERDGM LKEKTGPKIGGETLLPRGEEHAKFLNSLK

>sp|POCW71|MCP1\_HUMAN Putative metaphase chromosome protein 1 OS=Homo sapiens GN=HSMCR30  
PE=5 SV=1

MMVNHNTSFTSNERAVVKLNEVMAALVNSDDRDWRYFVMLVPVLYDMQQFLVKEGSMN  
ERFVAQAPKFDINFWRMIITVMAINFFKWQKDV AELMKTSSAIDDLQFKFLQVDDKDDH  
FNLPIAETFRGLSPKMKPLKGADSVVALEPKL TEAQIQAELEFADKRLAQFKAASVKDV  
VSDNVVNMLRGFHEGLATEYQATHDLWQPAMFNALATDKLFNYWSPAWDNLDGIGGEVKS  
YLTFLSQKQDISGLSEFVTGTAGIDRYIDVAALNHLLEQMPEDVLAERAL

>sp|Q6DN12|MCTP2\_HUMAN Multiple C2 and transmembrane domain-containing protein 2 OS=Homo  
sapiens GN=MCTP2 PE=1 SV=3

MDLDKPSVWGLKQRTPLLINLSKKKVKNPSKPPDLRARHHLDRRLSLV PDLLEAEA  
LAPEGRPYSGPQSSYTSVPSSLSTAGIFPKSSSSSLKQSEEELDWSQEEASHLHVETDS  
EEAYASPAERRRVSSNGIFDLQKTS LGGDAPEEPEKLCGSSDLNASMTSQHFEEQSVPG  
ASDGLSNLPSPFAYLLTIHLKEGRNLVVRDRCGTSDPYVKFKLNGKTL YKSKVIYKNLNP  
VWDEIVVLP IQSLDQKL RVKVYDRDLTTSDFMGS AFVILSDLELNRTTEHILKLEDPNSL  
EDDMGIVIVLNLNVVKQGD FKRHRWSNRKRLSASKSSLIRNLR LSESLKKNQLWNGIISI  
TLLEGKNVSGGSMTEMFVQLKLG DQRYKSKTLCKSANPQQWQE QDFHYFSDRMGILDIEV  
WGKDNKKHEERLGTCKVDISALPLKQANCELP LDSLGLALLMLVLT PCAGVSVSDLCV  
CPLADLSERKQITQRYCLQNSLKDV KDVGILQVKVLKAADLLAADFSGKSDPFCLLELGN  
DRLQTHTVYKNLNP EWNKVFTFPIKDIHDVLEVTVFDEDDGKPPDFLGKVAIPLLSIRDG  
QPNCYVLKNKDLEQAFKGV IYLEMDLIYNPVKASIRTFTPREKRFVEDSRKLSKKILSRD  
VDRVKRITMAIWNMQFLKSCFQWESTLRSTIAFAVFLITVWNFELYMIPLALLIFVYN  
FIRPVKGKVSSIQDSQESTDIDDEEDED DKESEKKGLIERIYMQDIVSTVQNVLEEIAS  
FGERIKNTFNWTVPLSSLACLILAAATII LYFIPLRYIILIWGINKFTKKLRNPYSIDN  
NELLDFLSRVPSDVQKVYAELKLCSSHSPLRKKRSAL

>sp|Q9NWR8|MCUB\_HUMAN Calcium uniporter regulatory subunit MCub, mitochondrial OS=Homo  
sapiens GN=MCUB PE=1 SV=2

MLQRGLWPWRTRLLPTPGTWRPARPWPLPPPPQVLRVKLCGNVKYYQSHHYSTVVPDEI  
TVIYRHGLPLVTLTLPSRKERCQFVVKPMLSTVGSFLQDLQNEKGIKTAAIFTADGNMI  
SASTLMDILLMDFKLVINKIAYDVQCPKREKPSNEHTAEMHMSLVHRLFTILHLEES  
QKKREHHLLEKIDHLKEQLQPLEQVKAGIEAHSEAKTSGLLWAGLALLSIQGGALAWLTW  
WVYSWDIMEPVITYFITFANSMVFFAYFIVTRQDYTYSAVKSRQFLQFFHKKSKQQHFDVQ  
QYNKLKEDLAKAKESLKQARHSLCLQMQUEELNEKN

>sp|Q8NE86|MCU\_HUMAN Calcium uniporter protein, mitochondrial OS=Homo sapiens GN=MCU PE=1  
SV=1

MAAAAGRSLLLLLSSRGGGGGAGGCGALTAGCFPGLVSRHRQQQHRTVHQRIASWQN  
LGAVYCSTVVPDDVTVVYQNGLPVISVRLPSRRERCQFTLKPISDSVGFLRQLQEEDR  
GIDRVAIYSPDGVRAASTGIDLLLLDDFKLVINDLTYHVRPPKRDLLSHENAATLNDVK  
TLVQQLYTTLCIEQHQLNKERELIERLEDLKEQLAPLEKVRIEISRKAERTTLVLWGGL  
AYMATQFGILARLTWWEYSWDIMEPVITYFITYGSAMAMYAYFVMTRQEYVYPEARDRQYL  
LFFHKGAKKSRFDLEKYNQLKDAIAQAEMDLKRLRDPLQVHLPLRQIGEKD

>sp|Q9UI95|MD2L2\_HUMAN Mitotic spindle assembly checkpoint protein MAD2B OS=Homo sapiens  
GN=MAD2L2 PE=1 SV=2

MTTLTRQDLNFGQVVADVLCEFLEVAVHLILYVREVYPVGIFQKRKKYNVPVQMSCHPEL  
NQYIQDTLHCVKPLEKNDVEKVVVVILDKEHRPVEKFVFEITQPPLLSISSDSLSSHVE  
QLLRAFILKISVCDAVLDHNPPGCTFTVLVHTREAATRMEKIQVIKDFPWILADEQDVH  
MHDPRLIPLKTMSTDKMLQLYVEERAHKG

>sp|Q9P1T7|MDFIC\_HUMAN MyoD family inhibitor domain-containing protein OS=Homo sapiens  
GN=MDFIC PE=1 SV=2

MSGAGEALAPGPVGPQRAEAGGGQLGSTAQGKCDKDNTKEDITQATNSHFTHGEMQDQS  
IWGNPSDGELIRTQPQRLPQLQTSAQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHGSADN  
RKLSAPVSQKMHRKIQSSLSVNSDISKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFL  
TLCNIVLGQASCIGTSEACCCCGDEMGGDCNCPCDMDCGIMDACCESSDCLEICMECC  
GICFPS

>sp|P40925|MDHC\_HUMAN Malate dehydrogenase, cytoplasmic OS=Homo sapiens GN=MDH1 PE=1 SV=4

MSEPIRVLVTGAAGQIAYSLLYSIGNSVFGKDQPIILVLLDITPMMGVLDGVLMEQLQDC  
ALPLLKDV IATDKEDVAFKDLDAIVLGSMPPREGMERKDLLKANVKIFKSQGAALDKYA  
KKS VKVIVVGNPANTNCLTASKSAPSIPKENFSCLTRLDNRAKAQIALKLGVTANDVKN  
VIIWGNHSSSTQYPDVNHAKVLQKKEVGVEALKDDSWLKGEFVTTVQQRGAAVIKARKL  
SSAMSAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGVPPDLLYSFPVVIKNTWKFV  
EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA

>sp|P10620|MGST1\_HUMAN Microsomal glutathione S-transferase 1 OS=Homo sapiens GN=MGST1  
PE=1 SV=1

MVDLTQVMDEVFMAFASYATIILSKMMLMSTATAFYRLTRKVFANPEDCVAFGKGENAK  
KYLRTDDRVERVRRHLNDLENIIPFLGIGLLYSLSGDPSTAILHFRLFVGARIYHTIA  
YLTPLPQPNRALSFFVGYGVTLSMAYRLLKSKLYL

>sp|Q99735|MGST2\_HUMAN Microsomal glutathione S-transferase 2 OS=Homo sapiens GN=MGST2  
PE=1 SV=1

MAGNSILLA AVSILSACQQSYFALQVGKARLKYKVTPPAVTGSPEFERVFRAQQNCVEFY  
PIFIITLWMAGWYFNQVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRLSLGILALLTL  
LGALGIANSFLDEYLDLNI AKKLRRQF

>sp|Q09328|MGT5A\_HUMAN Alpha-1,6-mannosylglycoprotein 6-beta-N-

acetylglucosaminyltransferase A OS=Homo sapiens GN=MGAT5 PE=2 SV=1

MALFTPWKLSSQKLGFFLVTFGFIWGMMLLHFTIQRTQPSSSMLREQILDLSKRYIKA  
LAEENRNVVDGPYAGVMTAYDLKKTAVLLDNILQRIGKLESKVDNLVVNGTGTNSTNST  
TAVPSLVALEKINVADIINGAQEKCVLPMDGYPHCEGKIKWMKDMWRSDPCYADYGVDG  
STCSFFIYLSEVENWCPHLPWRAKNPYEEADHNSLAEIRTDNFILYSMMKKHEEFRWMRL  
RIRRMADAWIQAIKSLAEKQNEKRKRKKVLVHLGLLTKESGFKIAETAFIGGGLGELVQ  
WSDLITSLYLLGHDIRISASLAELKEIMKKVVGNRSGCPTVGDRIVELIYIDIVGLAQFK  
KTLGPSWVHYQCMRLVLDSEFGTEPEFNHANYAQSKGHKTPWGKWNLPQQFYTMFPHTPD  
NSFLGFVVEQHLNSSDIHHINEIKRQNSLVYGVDSFWKNKKIYLDIHTYMEVHATVY  
GSSTKNIPSYVKNHGLSGRDLQFLLRETKLFVGLGFPYEGPAPLEAIANGCAFLNPKFN  
PPKSSKNTDFFIGKPTLRELTSQHPYAEVIGRPHVWTVDLNNQEEVEDAVKAILNQKIE  
PYMPYEFTCEGMLQRINAFIEKQDFCHGQVMWPPLSALQVLAEPGQCKQVCQESQLIC  
EPSFFQHLNKDKMLKYKVTCSSELAKDILVPSFDPKNKHCVFQGDLLLFSCAGAHPRH  
QRVCPCRDFIKGQVALCKDCL

>sp|Q29980|MICB\_HUMAN MHC class I polypeptide-related sequence B OS=Homo sapiens GN=MICB  
PE=1 SV=1

MGLGRVLLFLAVAFPPAPAAAAEPHSLRYNLMVLSQDESQSGFLAEGHLDGQPFLRYD  
RQKRRAPQGQWAEDVLGAKTWDTEDELTENGQDLRRTLTHIKDQKGLHSLQEIRVCE  
IHEDSSTRGSRHFYDYGELFLSQNLETQESTVPQSSRAQTLAMNVTNFWKEDAMKTKTHY  
RAMQADCLQKLQRYLKSGVAIRRTVPPMVNVTCEVSEGNITVTCRASSFYPRNITLTWR  
QDGVSLSHNTQQWGDVLPDNGNTYQTWVATRIRQGEERFTCYMEHSGNHGTHPVPSGKV  
LVLQSQRDTFPYVSAAMPFCVIIILCVPCCKKTSAAEGPELVSLQVLDQHPVGTGDHR  
DAAQLGFQPLMSATGSTGSTEGA

>sp|Q8N108|MIER1\_HUMAN Mesoderm induction early response protein 1 OS=Homo sapiens  
GN=MIER1 PE=1 SV=2

MAEPSVESSSPGGSATSDDHEFDPSADMLVHDFDDERTLEEEEMMEGETNFSSEIEDLAR  
EGDMPIHELLSLYGYGSTVRLPEEDEEEEEEGEDDEDADNDNSGCSGENKEENIKD  
SSGQEDETQSSNDPQSQSVASQDAQEIIIRPRCKYFDTNSEVEEESEDEDYIPSEDWKK  
EIMVGSMFQAEIPVGCYKENEKVYENDDQLLWDPEYLPEDKVIIFLKDASRRTGDEKG  
VEAIPESGSHIKDNEQALYELVKCNFDTEEALRRLRFNVKAAREELSVWTEEECRNFEQGL  
KAYGKDFHLIQANKVTRSVGECVAFYYMWKKSERYDFFAQQTRFGKKKYNLHPGVTDYM  
DRLLDESESAASSRAPSPPTASNSSNSQSEKEDGTVSTANQNGVSSNGPGEILNKEEVK  
VEGLHINGPTGGNKKPLHADMDTNGYETDNLTTDPKLAHMTARNENDFDEKSERPAKRRR  
VNSNGKESPGSSEFFQEAVSHGKFEELNTDD

>sp|Q8NAN2|MIGA1\_HUMAN Mitoguardin 1 OS=Homo sapiens GN=MIGA1 PE=1 SV=1

MSDCCSAPGISWEAGVGRPAVPGLELQIRRGAMSEETVSESQFSLKTAALRVFDLPLTWY  
YLSQIKFSPVAKKLFVVTAISVIFLAHHFKRKRGGKKGKILPWEPEHLILEYTKRA  
ASDKGSSCSSRQNLTLSSLSTKDKGSQVCNYANGGLFSKYSGSAQSLASVQSVNSCHSC  
ACGNSNSWDKADEDDIKLVNIPVTTPENLYLMGMELFEEALRRWEQALTFRNRQAEDEAC  
GSIKLGAGDAIAEENVDDIISTEFIHKLEALLQRAYRLQEEFEATLGASDPNSLADDIDK  
DTDITMKGNVEDFGLRDTLSIASTDSFASAAELAHEVRHTYSLESLSLCHCPFYEEAMHL  
VEEGKIYSRVLRTEMLECLGSDFLAKLHCIRQAFQVILSESANRIFLAESGRKILSALI  
VKARKNPCKKFEDVFDEMIYFLEQTDHWGSTEMELAARGVKNLNFYDVVLDFILMDSFEDL



ENPPTSIQNVVNNRWLNSSFKETAVASSCWSVLKQKRQMKIPDGFFAHFYAICEHISPV  
LAWGFLGPRNSLYDLCCFFKNQVLLFLKIDFDFEKVRYSSSTETLAEDLMQLLIRRTELLM  
AYLEADALRHTSSCLSSHGHVMSTGLLEAKVQ

>sp|P20774|MIME\_HUMAN Mimecan OS=Homo sapiens GN=OGN PE=1 SV=1

MKTLQSTLLLLLVPLIKPAPPTQQDSRIIYDYGTDNFEEISFSQDYEDKYLDGKNIKEK  
ETVIIPNEKSLQLQKDEAITPLPPKKENDEMPCTCLLCVCLSGSVYCEEVDIDAVPPLPKE  
SAYLYARFNKIKKLTAKDFADIPNLRRDFTGNLIEDIEDGTFSKLSLEELSLAENQLL  
KLPVLPKLTFLNAKYNKIKSRGIKANAFKKLNNLTFLYLDHNALESVPLNLPESLRVIH  
LQFNNIASITDDTFCKANDTSYIRDRIEEIRLEGNPVLGKHPNSFICKRLPIGSYF

>sp|Q9NPJ1|MKKS\_HUMAN McKusick-Kaufman/Bardet-Biedl syndromes putative chaperonin OS=Homo sapiens GN=MKKS PE=1 SV=1

MSRLEAKKPSLCKSEPLTTERVRTLSVLKRIVTSCYGPSGRLKQLHNGFGGYVCTTSQS  
SALLSHLLVTHPIKILTASIQNHVSSFSDCGLFTAILCCNLIENVQRLGLTPTTVIRLN  
KHLLSLCISYLKSETCGCRIPVDFSSTQILLCLVRSILTSKPACMLTRKETEHSVLSALILR  
AFLLTIPENAEGHIIIGKSLIVPLKGQRVIDSTVLPGLIEMSEVQLMRLLPKIKSTALK  
VALFCTTSGDTSDTGEGTVVVSYGVSLENVLDQLLNLGRQLISDHVDLVLCQKVIHPS  
LKQFLNMHRIIAIDRIGVTLMELTKMTGTQPIGSLGSIENSYGSVKDVCTAKFGSKHF  
FHLIPNEATICSLLCNRNDTAWDELKLTCTALHVLQLTLKEPWALLGGGCTETHLAAY  
IRHKTNDPESILKDDECTQTELQLIAEAFCSALESVVGSLEHDGGEILTDMKYGHLWSV  
QADSPCVANWPDLLSQCGGLYNSQEELNWSFLRSTRPFVFPQSCLPHEAVGSASNLTD  
CLTAKLSGLQVAVETANLILDLSYVIEDKN

>sp|Q13434|MKRN4\_HUMAN Putative E3 ubiquitin-protein ligase makorin-4 OS=Homo sapiens GN=MKRN4P PE=5 SV=1

MAEAAAAGTTVTTSAGAAAAEAETAETAEVSPPTIPTVTAPSPRAGGGVGGSDGSDGSGG  
RGDSGAYDGSAGCGSDACDGSDDSGDSWTKQVTCRYFKYIGCKEGDNCRYSHDLSDR  
CGVVCKYFQRGCCVYGDRCRCEHSKPLKQEEATATELTKSSLAASSLSIVGPLVEMN  
TNEAESRNSNFATVVAGSEWANAIEFVPGQPYCGRTVPSCTEAPLQGSVTKEESEEQT  
AVETKKQLCPYAAVGGCRYGENCVYLHGDLCDMGLQVLHPMDAAQRSQHIQACIEAHEK  
DMEFSFAVQRSKDKVCGICMEVVEKANPNEHRFGILSNCHTFCLKCIRKWSAKEFES  
RIVKSCPQCRTSNFVIPSEYWVEEKEEKQLIKYKEAMSNKACKYFDEGRGSCPFGEN  
CFYKHMYPDGRREEPQRQVGTSSRNPGQQRNHFWEFEEGANSNPFDEEEAVTFELGE  
MLLML

>sp|P58340|MLF1\_HUMAN Myeloid leukemia factor 1 OS=Homo sapiens GN=MLF1 PE=1 SV=1

MFRMLNSSFEDDPFFSESLAHRENMRQMIRSFSEPFGRDLLSISDGRGRAHNRGRHNDG  
EDSLTHTDVSSFQTMQMVSNMRNYMQKLERNFGQLSVDPNGHSFCSSSVMTYSKIGDEP  
PKVFQASTQTRRAPGGIKETRKAMRSDSGLEKMAIGHHIHDRAHVIKSKNKTGDEEV  
NQEFINMNESDAHAFDEEWQSEVLKYKPGRHNLGNTRMRSVGHENPGSRELKRREKPPQS  
PAIEHGRRSNVLGDKLHIKSSVKSNNK

>sp|P40692|MLH1\_HUMAN DNA mismatch repair protein Mlh1 OS=Homo sapiens GN=MLH1 PE=1 SV=1

MSFVAGVIRRLDETVDNRNIAAGEVIQRPANAIKEMIENCLDAKSTSIQVIVKEGGLKLIQ  
IQDNGTGIRKEDLDIVCERFTTSKLQSFEDLASISTYGRGEALASISHVAHVTTITKTA  
DGKCAIRASYSQGLKAPKPCAGNQGTQITVEDLFYNIATRRAKALNPSEYKILEVV  
GRYSVHNAGISFSVKKQGETVADVRTLPNASTVDNIRSFIGNAVSRELIEIGCEDKTAF  
KMNGYISNANYSVKKCIFLLFINHRLVESTSLRKAIEVYAAVLPKNTHPFLYLSLEISP

QNVDVNVHPTKHEVHFLHEESILERVQQHIESKLLGSNSSRMYFTQTLLPGLAGPSGEMV  
KSTTSLTSSSTSGSSDKVYAHQMVRTDSREQKLDAFLQPLSKPLSSQPQAIVTEDKTDIS  
SGRARQQDEEMLELPAPAEVAAKNQSLEGDTTKGTSEMSEKRGPTSSNPRKRHRESDSVE  
MVEDDSRKEMTAACTPRRRIINLTSVLSLQEEINEQGHEVLREMLHNHSFVGCVPNPQWAL  
AQHQTKLYLLNTTKLSEELFYQILIYDFANFGVLRRLSEPAPLFDLAMLALDSPESGWTEE  
DGPKEGLAEYIVEFLKKKAEMLADYFSLEIDEEGNLIGLPLLIDNYVPPLEGLPIFILRL  
ATEVNWDEEKECFESLSKECAMFYSIRKQYISEESTLSGQQSEVPGSIPNSWKWTVEHIV  
YKALRSHILPPKHFTEDGNILQLANLPDLYKVFERC

>sp|Q01449|MLRA\_HUMAN Myosin regulatory light chain 2, atrial isoform OS=Homo sapiens  
GN=MYL7 PE=1 SV=1

MASRKAGTRGKVAATKQAARGSSNVFSMFEQAQIQEFKEAFSCIDQNRDGIICKADLRET  
YSQLGKVSVPPEELDAMLQEGKGINFTVFLTLFGEKLNQTDPEEAILSARFMFDPGKKG  
VVNKDEFKQLLLTQADKFSPAEEVQMFALTPMDLAGNIDYKSLCYIITHGDEKEE

>sp|Q96A32|MLRS\_HUMAN Myosin regulatory light chain 2, skeletal muscle isoform OS=Homo sapiens  
GN=MYLPF PE=2 SV=1

MAPKRAKRRTVEGGSSSVFSMFDQTQIQEFKEAFTVIDQNRDGIIDKEDLRDTFAAMGRL  
NVKNEELDAMMKEASGPINFTVFLTMFGEKLGADPEDVITGAFKVLDPGKGTIKKKFL  
EELLTTQCDRFSQEEIKNMWAAFPPDVGGNVQYKNICYVITHGDAKDQE

>sp|Q9NP71|MLXPL\_HUMAN Carbohydrate-responsive element-binding protein OS=Homo sapiens  
GN=MLXIPL PE=1 SV=1

MAGALAGLAAGLQVPRVAPSPDSDSDTSEDPSLRRSAGGLLRSQVIHSGHFMVSSPHSD  
SLPRRRDQEGSVGPSDFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKFGLKLLCRDKI  
RLNNAIWRAWYIQYVKRRKSPVCGFVTPLQGPEADHRKPEAVVLEGNVWKRRIEVVMRE  
YHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSVVPVLLGDPEEEPGGR  
QLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS  
DFFTNSRLPQPPMPSNFPEPPSFSPVVDLSFSSGTLGPEVPPASSAMTHLSGHSRLQARN  
SCPGPLDSSAFLSSDFLLPEDPKPRLPPPPVPPPLHYPPPAKVPGLEPCPPPPFPPMAP  
PTALLQEEPLFSRPFPTVPPAPGVSPLPAPAAFPPTPQSVSPAPTFFPIELLPLGYS  
EPAFGPCFSMPRGKPPAPSPRGQKASPTLAPATASPPTAGSNNPCLTQLLTAAPPEQA  
LEPPLVSSTLLRSPGSPQETVPEFPCTFLPPTPAPTTPRPPPGPATLAPSRPLLVPKAER  
LSPPAPSGSERLLSGDLSSMPGPGTLSVRVSPQPILSRGRPDSNKTENRRITHISAEQK  
RRFNIKLGFDTLHLGVSTLSAQPSLKVSKATTQKTAEYILMLQKERAGLQEEAQLRDE  
IEELNAAINLCQQQLPATGVPITHQRFQMRDMFDDYVTRTLHNWKFVVSILIRPLFE  
SFNGMVSTASVHTLRQTSALWLDQYCSLPALRPTVLNSLRQLGTSTSILTDPGRIPEQAT  
RAVTEGTLGKPL

>sp|Q96EY8|MMAB\_HUMAN Cob(I)yrinic acid a,c-diamide adenosyltransferase, mitochondrial  
OS=Homo sapiens GN=MMAB PE=1 SV=1

MAVCGLSRLGLGSLRGLRGCFGAARLLYPRFQSRGPQGVEDGDRPQPSSKTPRIPKIYT  
KTGDKGFSSTFTGERRPKDDQVFEAVGTTDELSSAIGFALELVTEKGHTFAEELQKIQCT  
LQDVGSALATPCSSAREHLKYTTFKAGPILELEQWIDKYTSQLPPLTAFILPSGGKISS  
ALHFCRAVCRRAERRVVPLVQMGETDANVAKFLNRLSDYLFTLARYAAMKEGNQEKIYMK  
NDPSAESEGL

>sp|P51511|MMP15\_HUMAN Matrix metalloproteinase-15 OS=Homo sapiens GN=MMP15 PE=1 SV=1  
MGSDPSAPGRPGWTGSLLDREEAARPLLPLLLVLLGCLGLGVAEADAHVHAENWLRLY

GYLPQPSRHMSTMRSAILASALAEMQRFYGIPTGVLDDEETKEWMKRPRCGVPDQFGVR  
VKANLRRRRKRYALTGRKWNHHLTFSIQNYTEKLGWYHSMEAVRRAFRVWEQATPLVFQ  
EVPYEDIRLRQKEADIMVLFASGFHGDSSPFDGTGGFLAHAYFPGPGLGGDTHFDAEP  
WTFSSDHLHGNNLFLVAVHELGHALGLEHSSNPNAIMAPFYQWKDVDFKLPEDDLRGIQ  
QLYGTDPGQPQTQPLPTVTPRRPGRPDHRPPRPPQPPPGGKPERPPKPGPPVQPRATE  
RPDQYGNICDGFDTVAMLRGEMFVFKGRWFVRVRHNRVLDNYPMPIGHFWRGLPGDIS  
AAYERQDGRFVFFKGDRYWLFREANLEPGYPQPLTSYGLGIPYDRIDTAIWWEPTGHTTF  
FQEDRYWRFNEETQRGDPGYKPI SVWQGIPASPKGAFLSNDAAITYFYKGTKYWKFDNE  
RLRMEPGYPKSILRDFMGCQEHEVPGPRWPDVARPPFNPHGGAEPGADSAEGDVGDDGDG  
FGAGVNDGGSRVVVMEEVARTVNVVMVLVPLLLLLCVLGLTYALVQMQRKGAPRVLLY  
CKRSLQEWV

>sp|Q9ULZ9|MMP17\_HUMAN Matrix metalloproteinase-17 OS=Homo sapiens GN=MMP17 PE=1 SV=4  
MRRRAARGPGPPPGPLSRLPLLLLLLALGTRGGCAAPAPAPRAEDLSLGVWLSRFG  
YLPPADPTTGQLQTQEELSKAITAMQQFGGLEATGILDEATLALMKTPRCSLPDLPLVTQ  
ARRRRQAPAPTKWKNRNL SWRVTFPRDSPLGHD TVRALMYALKVWSDIAPLNFHEVAG  
SAADIQIDFSKADHNDGYFPDGGTVAHAFFPGHHHTAGDTHFDDDEAWTFRSSDAHGM  
DLFAVAVHEFGHAIGLSHVAAAHSIMRPYYQGPVGDPLRYGLPYEDKVRVWQLYGVRESV  
SPTAQPEEPPLLPEPPDNRSSAPPRKDVPHRCSTHFDAVAQIRGEAFFFKGKYFWRLTRD  
RHLVSLQPAQMHRFWRGLPLHLDSVDAVYERTSDHKIVFFKGDYVWFKDNVVEEGYPRP  
VSDFSLPPGGIDAAFSWAHNDRTYFFKQDLYWRYDDHTRHMDPGYPAQSPLWRGVPSTLD  
DAMRWSDGASYFFRGQYWKVLDGELEVAPGYPQSTARDWLVCGDSQADGSVAAGVDAAE  
GPRAPPQHDQSRSEDGYEVCSTSGASSPPGAPGPLVAATMLLLLPLSPGALWTAAQA  
LTL

>sp|Q99542|MMP19\_HUMAN Matrix metalloproteinase-19 OS=Homo sapiens GN=MMP19 PE=1 SV=1  
MNCQQLWLGLFLPMTVSGRVLGLAEVAPVDYLSQYGYLQKPLEGSNNFKPEDITEALRAF  
QEASELPVSGQLDDATRARMRQPRCGLEDPFNQKTLKYLLLRWRKKHLTFRILNLPSTL  
PPHTARAALRQAFQDWSNVAPLTFQEVQAGAADIRLSFHGRQSSYCSNTFDGPGRVLAHA  
DIPELGSVHFDEDEFWTEGTYRGVNLRI IAAHEVGHALGLGHSRYSQALMAPVYEGYRPH  
FKLHPDDVAGIQALYGKKSPVIRDEEEETELPTVPPVPTEPSPMPDPCSSELDAMMLGP  
RGKTYAFKGDYVWTVSDSGPGPLFRVSALWEGLPGNLDAAVYSPRTQWIHFFKGDKVWRY  
INFKMSPGFPKLN RVENLDAALYWPLNQKVLFLKSGSYQWDELARTDFSSYPKPIKG  
LFTGVPNQPSAAMSWQDGRVYFFKGVYWRNLNQQLRVEKGYPRNISHNWMHCRPTIDTT  
PSGGNTTPSGTGITLDTTSLATETTFEY

>sp|P03956|MMP1\_HUMAN Interstitial collagenase OS=Homo sapiens GN=MMP1 PE=1 SV=3  
MHSFPPLLLLLFWGVVSHSFPATLETQEQDVDLVQKYLEKYNNLKNDRQVEKRRNSGPV  
VEKLKQMQEFFGLKVTGKPD AETLKVMKQPRCGVPDVAQFVLTEGNPRWEQTHLTYRIEN  
YTPDLPRADVDAIEKAFQLWSNVTPLTFTKVSEGGADIMISFVRGDHRDNSPFDGPGGN  
LAHAFQPGPGIGGDAHFDEDERWTNNFREYNLHRVAAHELGHSLGLSHSTDIGALMYP  
SYTFSGDVQLAQDDIDGIAIYGRSQNPVQPIGPQTPKACDSKLTFDAITIRGEVMFFKDR  
FYMRTNPFYPEVELNFISVFWPLPNGLEAAEFADRDEVRFFKGNKYWAVQGQNVLHGY  
PKDIYSSFGFPRTVKHIDAALSEENTGKTYFFVANKYWRYDEYKRSMDPGYPKMIAHDFP  
GIGHKVDVAFMKDGGFFYFFHGRQYKFDPKTKRILTLQKANSWFNCRKN

>sp|P21439|MDR3\_HUMAN Phosphatidylcholine translocator ABCB4 OS=Homo sapiens GN=ABCB4  
PE=1 SV=2

MDLEAAKNGTAWRPTSAEGDFELGISSKQKRKKTCTVKMIGVLTFRYSDWQDKLFMSLG  
TIMAIAHGSGPLMMIVFGEMTDKFDVTAGNFSFPVNFSLNPGKILEEEMTRYAYYY  
SGLGAGVLVAAYIQVSFWTLAAGRQIRKIRQKFFHAILRQEIGWFDINDTTELNRLTDD  
ISKISEGIGDKVGMFFQAVATFFAGFIVGFIRGWKLTIVMAISPILGLSAAVWAKILSA  
FSDKELAAAYAKAGAVAEALGAIRTVIAFGGQNKELERYQKHLENAKEIGIKKAISANIS  
MGIAFLLIYASYALAFWYGSTLVISKEYTIGNAMTVFFSILIGAFSVGQAAPCIDAFANA  
RGAAYVIFDIIDNNPKIDSFSERGHKPDSEIKGNLEFNDVHFSYPSRANVKILKGLNLKVQ  
SGQTVLVGSSGCGKSTTVQLIQRLYDPDEGTINIDGQDIRNFNVNYLREIIGVVSQEPV  
LFSTTIAENICYGRGNVTMDEIKKAVKEANAYEFIMKLPQKFDTLVGERGAQLSGGQKQR  
IAIARALVRNPKILLDEATSALDTESEAEVQAALDKAREGRTTIVIAHRLSTVRNADVI  
AGFEDGVIVEQGSHELMKKEGVYFKLVNMQTSGSQIQSEEFELNDEKAATRMANGWKS  
RLFRHSTQKNLNSQMCQKSLDVEDTGLEANVPPVSFLKVLKNKTEWPYFVVGTVCAIA  
NGGLQPAFSVIFSEIIAIFGPGDDAVKQKCNIFSLIFLFLGIISFFTFFLQGFTFGKAG  
EILTRRLRSMFAKMLRQDMSWFDHKNSTGALSTRLATDAAQVQGATGTRLALIAQNIA  
NLGTGIIISFIYGWQLTLLLLAVVPIIAVSGIVEMKLLAGNAKRDKKELEAAGKIATEAI  
ENIRTVVSLTQERKFESMYVEKLYGPYRNSVQKAHIYGITFSISQAFMYFSYAGCFRFGA  
YLIVNGHMRFRDVLVFSIVFGAVALGHASSFAPDYAKAKLSAAHLFMLFERQPLIDSY  
SEGLKPKDFEGNITFNEVVFNYPTRANVPVLQGLSLEVKKGQTLALVGSSGCGKSTVVQ  
LLERFYDPLAGTVFVDFGFQLLDGQEAKKLVNQLRAQLGIVSQEPILFDCSIAENIAYG  
DNSRVVSQDEIVSAAKAANIHPFIETLPHKYETRVGDKGTQLSGGQKQRIAIARALIRQP  
QILLDEATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEH  
GTHQQLLAQKGIYFSMVSQAGTQNL

>sp|Q9BTT4|MED10\_HUMAN Mediator of RNA polymerase II transcription subunit 10 OS=Homo sapiens GN=MED10 PE=1 SV=1

MAEKFDHLEEHLEKFVENIRQLGIIVSDFQPSSQAGLNQKLNFIIVTGLQDIDKCRQQLHD  
ITVPLEVFHEYIDQGRNPQLYTKECLELALAKNEQVKGKIDTMKKFKSLLIQELSKVFPED  
MAKYRSIRGEDHPPS

>sp|Q6P2C8|MED27\_HUMAN Mediator of RNA polymerase II transcription subunit 27 OS=Homo sapiens GN=MED27 PE=1 SV=1

MADVINVSVNLEAFSQAISAIQALRSSVSRVFDCLKDGMRNKETLEGREKAFIAHFQDNL  
HSVNRDLNELERLSNLVGKPSSEHPLHNSGLLSLDPVQDKTPLYSQLQAYKWSNKLQYH  
AGLASGLLNQQLSRKANQMGVSARKRPAQPTTLVLPQYVDDVISRIDRMFPEMSIHL  
SRPNGTSAMLLVTLGKVLKVIIVMRSLFIDRTIVKGYNENVYTEDGKLDIWSKSNYQVFQ  
KVTDHATTALLHYQLPQMPDVVRSFMTWLRSYIKLFQAPCQRCGKFLQDGLPPTWRDFR  
TLEAFHDTCRQ

>sp|P50222|MEOX2\_HUMAN Homeobox protein MOX-2 OS=Homo sapiens GN=MEOX2 PE=1 SV=2

MEHPLFGCLRSPHATAQGLHPFSQSSLALHGRSDHMSYPELSTSSSSCI IAGYPNEEGMF  
ASQHHRGHHHHHHHHHHHHHHQHQHQAQTNWHLPMSSPPSAARHSLCLQPDSSGPPPEL  
GSSPPVLCSSSSLSSTPTGAACAPGDYGRQALSPAFAEKSSGGRKSDSSDSQEGNYK  
SEVNSKPRKERTAFTKEQIRELEAEFAHHNYLTRRRYEIAVNLDLTERQVKVWFQNRMM  
KWKRVKGGQQGAAAREKELVNVKKGTLTPSELSGIGAATLQQTGDSIANEDSHSDHSSE  
HAHL

>sp|Q9BQA1|MEP50\_HUMAN Methylosome protein 50 OS=Homo sapiens GN=WDR77 PE=1 SV=1

MRKETPPPLVPPAAREWNLPNAPACMERQLEAARYRSDGALLLGASSLSGRCWAGSLWL

FKDPCAAPNEGFC SAGVQTEAGVADLTWVG ERGILVASDSGAVELWELDENETLIVSKFC  
KYEHDDIVSTVSVLSSGTQAVSGSKDICKVWDLAQQVVLSSYRAHAAQVTCVAASPHKD  
SVFLSCSEDNRILLWDTRCPK PASQIGCSAPGYLPTSLAWHPQQSEV FVFGDENGTVSLV  
DTKSTSCVLSSAVHSQCVTGLVFSHPVFLASLSEDCSLAVLDSSLSELF RSQAHRDFV  
RDATWSPLNHSLLTTVGWDHQVHHVVPTEPLPAPGPASVTE

>sp|Q7L2J0|MEPCE\_HUMAN 7SK snRNA methylphosphate capping enzyme OS=Homo sapiens GN=MEPCE  
PE=1 SV=1

MIEMAAEKEPFLVPAPPPPLKDESGGGGPTVPPHQEAASGELRGGTERGPGRCAPSAGS  
PAAAVGRES PGAAATSSSGPQAQQHRGGGPQAQSHGEARLSDPPGRAAPPDVGEERRGGG  
GTELGPAPPRPRNGYQPHRPPGGGGGKRRNSCNVGGGGGFKHPAFKRRRRVNSDCDSV  
LPSNFLGGNIFDPLNLNSLLDEEVSR TLNAETPKSSPLPAKGRDPVEILIPKIDT DPLS  
LNTCTDEGHVVLASPLKTGRKRHRHRGQHHQQQAAGGSESHVPPTAPLTPLLHGE GAS  
QQPRHRGQNRDAPQPYELNTAINCRDEVVSPLPSALQGPSGSL SAPPAAVISAPPSSSS  
RHRKRRRTSSKSEAGARGGGQGSKEKGRGSWGRHHHHHPLAAGFKKQQRKFQYGN YCK  
YYGYRNPSCEDGRLVLKPEWFRGRDVL DLGCNVGHLTSLACKWGPSRMVGLDIDSRLI  
HSARQNI RHYLSEELRLPPQTLEGDPGAEGEETTTVRKRSCFPASLTASRGPIAAPQVP  
LDGADTSVFPNNVFTGNVYLD RDDLVEAQTPEYDVVLCLSLTKWVHLNWGDEGLKRMF  
RRIYRHLRPGGILVLEPQPWSSYGKRKTLTETIYKNYYRIQLKPEQFSSYL TSPDVGFSS  
YELVATPHNTSKGFQRPVYLFHKARSPSH

>sp|Q9BRJ9|MESP1\_HUMAN Mesoderm posterior protein 1 OS=Homo sapiens GN=MESP1 PE=2 SV=1

MAQPLCPPLSESWMLSAAWGPTRRPPPSDKDCGRSLVSSPDSWGSTPADSPVASPARPGT  
LRDPRAPSVGRRGARSSRLGSGQRQSASEREKLRMRTLARALHELRRFLPPSVAPAGQSL  
TKIETLR LAIRYIGHLSAVLGLSEESLQRRCRQRGDAGSPRGCLCPDDCPAQMQTRTQA  
EGQGQGRGLGLVSAVRAGASWGSPACPGARA APEPRDPPALFAEACPEGQAMEPSPPS  
PLLPGDVLALLE TWPLSPLEWLPEEPK

>sp|Q9H825|METL8\_HUMAN Methyltransferase-like protein 8 OS=Homo sapiens GN=METL8 PE=2  
SV=2

MNMIWRNSISCLRLGKVPHRYQSGYHPVAPLGSRI LTDPKVF EHNMWDMQWSKEEEAA  
ARKKVKENSAVRVLEE QVKYEREASKYWDTFYKIHKNKFFKDRNWLLREFPEILPVDQK  
PEEKARESSWDHVKTSATNRFSRMHCPTVPDEKNHYEKSSGSSEGQSKTESDFS NLDSEK  
HKKGPMETGLFPGSNATFRILEVGCAGNSVFPILNTLENSPESFLYCCDFASGAVELVK  
SHSSYRATQCF AFVHDVCDGLPYFPD GILDVILLVFLSSIHPDRTLFI

>sp|Q9UJH8|METR\_N\_HUMAN Meteorin OS=Homo sapiens GN=METR\_N PE=2 SV=2

MGFPAAALLCALCCGLLAPAARAGYSEERCSWRGSGLTQEPGSVGQLALACAEGAVEWLY  
PAGALRLTLGGPDPRARPGIACLRPVRPFAGA QVFAERAGGALELLLAEGPGPAGGRCVR  
WGPRERRALFLQATPHQDISRRVAAFRFELREDGRPELPPQAHGLGVDGACRPCSDAELL  
LAACTSDFVIHGIHGVTHDVELQESVITVVAARVLRQT PPLFQAGRSGDQGLTSIRTPL  
RCGVHPGPGTFLFMGWSRFGEARLGCAPRFQEFRRAYE AARAAHLHPCEVALH

>sp|O60291|MGRN1\_HUMAN E3 ubiquitin-protein ligase MGRN1 OS=Homo sapiens GN=MGRN1 PE=1  
SV=2

MGSILSRRIAGVEDIDIQANSAYRYPPKSGNYFASHFFMGGEKFDTPHPEGYLFGENMDL  
NFLGSRPVQFPYVTPAPHEPVKTLRSLVNIRKDSLRLVRYKDDADSPTE DGDKPRVLYSL  
EFTFDADARVAITIYQASEEFLNGRAVYSPKSPSLQSETVHYKRGVSQQFSLPSFKIDF  
SEWKDDELNFDLDRGVFPVVIQAVVDEGDVVEVTGHAHVLLAAFEKHMDGSFSVKPLKQK

QIVDRVSYLLQEIYGIENKNNQETKPSDDENS DNSNECVCLSDLRDTLILPCRHLCLCT  
SCADTLRYQANNCPICRLPFRALLQIRAVRKKPGALSPVSFSPVLAQSLEHDEHSCPFKK  
SKPHPASLASKKPKRETNSDSVPPGYEPISLLEALNGLRAVSPAIPSAPLYEEITYSGIS  
DGLSQASCPLAAIDHILDSSRQKGRPQSKAPDSTLRSPSSPIHEEDEEKLSEDVDAPPL  
GGAELALRESSSPESFITEEVESSSPQQGTRAASIENVLQDSSPEHCGRGPPADIYLPAL  
LGPDSCSVGIDE

>sp|Q5TGZ0|MIC10\_HUMAN MICOS complex subunit MIC10 OS=Homo sapiens GN=MINOS1 PE=1 SV=1  
MSESELGRKWDRCLADAVVKIGTGFGLGIVFSLTFFKRRMWPLAFGSGMGLGMAYSNCQH  
DFQAPYLLHGKYVKEQEQ

>sp|Q9UNW1|MINP1\_HUMAN Multiple inositol polyphosphate phosphatase 1 OS=Homo sapiens  
GN=MINPP1 PE=1 SV=1

MLRAPGCLRTSVAPAAALAAALLSSLARCSLLEPRDPVASSLSPYFGTKTRYEDVNPVL  
LSGPEAPWRDPELLEGTCTPVQLVALIRHGTRYPTVKQIRKLRQLHGLLQARGSRDGGAS  
STGSRDLGAALADWPLWYADWMDGQLVEKGRQDMRQLALRLASLFPALFSRENYGRLRLI  
TSSKHRCDSSAAFLQGLWQHYHPLPPPDVADMEFGPPTVNDKLMRFFDHCEKFLTEVE  
KNATALYHVEAFKTGPEMQNILKKVAATLQVPVNDLNADLIQVAFFTCSFDLAIKGVKSP  
WCDVFDIDDAKVLEYLNDLKQYWKRGYGYTINSRSSCTLFQDIFQHLDKAVEQKQRSQPI  
SSPVILQFGHAETLLPLLSLMGYFKDKEPLTAYNYKKQMRKFRSGLIVPYASNLIFVLY  
HCENAKTPKEQFRVQMLLNEKVLPLAYSQETVSFYEDLKNHYKDILQSCQTSEECELARA  
NSTSDEL

>sp|Q8WV92|MITD1\_HUMAN MIT domain-containing protein 1 OS=Homo sapiens GN=MITD1 PE=1 SV=1  
MAKSGLRQDPQSTAAATVLKRAVELDSESRYPAQALVCYQEGIDLLLQVLKGTKDNTKRCN  
LREKISKYMDRAENIKKYLDQEKEDGKYHKQIKIEENATGFSYESLFREYLNETHVTEVWI  
EDPYIRHTHQLYNFLRFCMLIKRPCKVKTIHLLTSLDEGIEQVQQSRGLQEIEESLRSH  
GVLLEVQYSSSIHREIRFNNGWMIKIGRGLDYFKKPQSRFSLGYCDFDLRPHCHETTVDI  
FHKKHTKNI

>sp|O15264|MK13\_HUMAN Mitogen-activated protein kinase 13 OS=Homo sapiens GN=MAPK13 PE=1  
SV=1

MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVSGAYGSVCSAIDKRSGEKVAIKKLSRPF  
QSEIFAKRAYRELLLLKHMQHENVIGLLDVFTPASSLRNFYDFYLVMPFMQTDLQKIMGM  
EFSEEKIQYLVYQMLKGLKYIHSAGVVHRDLKPGNLAVNEDCELKILDFGLARHADAEMT  
GYVVTWRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFKGKDYLQDLTQILKVTG  
VPGTEFVQKLNDKAAKSYIQSLPQTPRKDFTLFPRASPQAADLLEKMLELDVDKRLTAA  
QALTHPFFEPFRDPEEETAQQPFDDSLHEKELTVDEWKQHIYKEIVNFSPIARKDSRRR  
SGMKL

>sp|Q8TD08|MK15\_HUMAN Mitogen-activated protein kinase 15 OS=Homo sapiens GN=MAPK15 PE=1  
SV=1

MCTVVDPRIVRRYLLRRQLGQGAYGIVWKAVDRTGEVVAIKKIFDAFRDKTDAQRTFRE  
ITLLQEFGDHPNIIISLLDVIRAENDRDIYLVFEFMDTDLNAVIRKGGLLQDVHVRSIFYQ  
LLRATRFLHSGHVHRDQKPSNVLLDANCTVKLCDFGLARSLGDLPEGPEDQAVTEYVAT  
RWYRAPEVLLSSHRYTLGVDMWSLGCILGEMLRGRPLFPGTSTLHQLELILETIPPPSEE  
DLLALGSGCRASVLHQLGSRPRQTL DALLPPDTSPEALDLLRRLLVFAPDKRLSATQALQ  
HPYVQRFHCPSEWAREADVPRPRAHEGVQLSVPEYRSRVYQMILECGSSGTSREKGPEG  
VSPSQAHLHKPRADPQLPSRTPVQGPRPRPQSSPGHDPAEHESPRAAKNVPRQNSAPLLQ

TALLNGERPPGAKEAPPLTSLVKPSGRGAAPSLTSQAAAQVANQALIRGDWNRGGGVR  
VASVQQVPPRLPPEARPGRRMFSTSALQGAQGGARALLGGYSQAYGTVCHSALGHLPLLE  
GHHV

>sp|Q9H000|MKRN2\_HUMAN Probable E3 ubiquitin-protein ligase makorin-2 OS=Homo sapiens  
GN=MKRN2 PE=1 SV=2

MSTKQITCRYFMHGVCREGSQCLFSHDLANSKPSTICKYYQKGYCAYGTRCRYDHTRPSA  
AAGGAVGTMAHSVSPAFHSPHPPSEVTASIVKTNSHEPGKREKRTLVLDRNLSGMAER  
KTQPSMVSNPGSCSDPQPSPMKPHSYLDAIRSGLDDVEASSYSNEQQLCPYAAAGECR  
FGDACVYLHGEVCEICRLQVLHPDPEQRKAHEKICMLTFEHEMEKAFQASQDKVCSI  
CMEVILEKASASERRFGILSNCNHTYCLSCIRQWRCAKQFENPIIKSCPECRVISEFVIP  
SVYWVEDQNKKNELIEAFKQGMGKKACKYFEQKGKTCFPGSKCLYRHAYPDGRLAEPEKP  
RKQLSSQGTVRFFNSVRLWDFIENRESRHVPNNEDVDMTELGDLFMHLSGVESSEP

>sp|Q6NVV0|MKRN5\_HUMAN Putative makorin-5 OS=Homo sapiens GN=MKRN9P PE=5 SV=1  
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>sp|P21741|MK\_HUMAN Midkine OS=Homo sapiens GN=MDK PE=1 SV=1  
MQHRGFLLLTLALLALTSAAKVKDKVKKGGPGSECAEWAGPCTPSSKDCGVGFREGT  
CGAQTQRIRCRVPCNWKKEFGADCKYKFENWGACDGGTGTKVRQGTLLKARYNAQCQETI  
RVTKPCTPKTKAKAKAKKGKGD

>sp|Q9GZQ8|MLP3B\_HUMAN Microtubule-associated proteins 1A/1B light chain 3B OS=Homo  
sapiens GN=MAP1LC3B PE=1 SV=3  
MPSEKTFKQRRTFEQVRVEDVRLIREQHPTKIPVIIERYKGEKQLPVLDKTKFLVPDHNVM  
SELIKIIRRLQLNANQAFLLVNGHSMVSVSTPISEVYESEKDEDGFLYMYASQETFG  
MKLSV

>sp|P10916|MLRV\_HUMAN Myosin regulatory light chain 2, ventricular/cardiac muscle isoform  
OS=Homo sapiens GN=MYL2 PE=1 SV=3  
MAPKKAKKRAGGANSNVFSMFETQIQEFKEAFTIMDQNRDGFIDKNDLRDTFAALGRVN  
VKNEEIDEMIKEAPGPINFTVFLTMFGEKLGADPEETILNAFKVFDPEGKGVLKADYVR  
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>sp|Q9HAP2|MLXIP\_HUMAN MLX-interacting protein OS=Homo sapiens GN=MLXIP PE=1 SV=2  
MAADVFMCSPPRRPSRGRQVLLKPQVSEDDDDSDTDESPPPASGAATPARAHASAAPPP  
PRAGPGREEPPRRQIIHSGHFMVSSPHREHPPKKGYDFDTVNKQTCQTYSFGKTSSCHL  
SIDASLTKLFECMTLAYSGKLVSPKWNFKGLKLQWRDKIRLNNAIWRAYMQYLEKRKN  
PVCHFVTPLDGSVDVDEHRRPEAITTEGKYWKSRIEIVIREYHKWRTYFKKRLQQHKDED  
LSSLVQDDMLYWHKHGDGKTPVPMEDPLDMDMLSEFSDTLFSTLSSHQPVAVPNP  
REIAHLGNADMIQPLIPLQPNLDFMDTFEPFQDLFSSSRISFGSMLPASASAPVDPNN  
PPAQESILPTTALPTVSLPDSLAPPTAPSLAHMDEQGCEHTSRTEDPFIQPTDFGPSEP  
PLSVPQPLFPVTMPLLSPPAPPPISPVLPLVPPATALNPPAPPTFHQPQKFAGVNKA  
PSVITHASATLTHDAPATTFSQSGLVITTHHPAPSAAPCGLALSPVTRPPQRLTFVH  
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EQVPLHGGSPQVTVTGPSRDCPNSGQASPCASEQSPSPQSPQNNCSGKSDPKNVAALKNR  
QMKHISAEQKRRFNKCMFDMNLISNNSKLTSHAITLQKTVEYITKLQQERGQMQUEA  
RRLREEIEELNATIIISCQQLPATGVPVTRRQFDHMKDMFDEYVKTRTLQNWKFWFISII  
IKPLFESFKGMVSTSSLEELHRTALSWLDQHCSLPILRPMVLSTLRQLSTSTSILTDPAQ

LPEQASKAVTRIGKRLGES

>sp|Q495T6|MMEL1\_HUMAN Membrane metallo-endopeptidase-like 1 OS=Homo sapiens GN=MMEL1  
PE=2 SV=2

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GGWLRRHVIPETNSRYSIFDVLRDELEVILKAVLENSTAKDRPAVEKARTLYRSCMNQSV  
IEKRGSQLLDILEVVGGWPVAMDRWNETVGLEWELERQLALMNSQFNRRVLIDLFIWND  
DQNSSRHI IYIDQPTLGMP SREYFNGGSNRKVREAYLQFMVSVATLLREDANLPRDSCL  
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LQNLKVG AQRSRLKLRKVDPNLWII GA AVVNAFYSPNRNQIVFPAGILQPPFFSKEQPQ  
ALNFGGIGMVI GHEITHGFDDNGRNF DKNMMDWWSNFSTQHFREQSECMYQYGNYSW  
DLADEQNVNGFNTLGENIADNGGVRQAYKAYLKWMAEGGKDQQLPGLDLTHEQLFFINYA  
QVWCGSYRPEFAIQSIKTDVHSPLKYRVLGSLQNLA AFADTFHCARGTPMHPKERCVRW

>sp|Q5VZR4|MF14C\_HUMAN Hippocampus abundant transcript-like protein 2 OS=Homo sapiens  
GN=MFSD14C PE=2 SV=1

MSVEPPPELEEKAASEPEAGAMPEKRAGAQAAGSTWLQGFPPSVYHAAIVIFLEFFAWG  
LLTTPMLTVLHETFSQHTFLMNGLIQGVKGLLSFLSAPLIGALSDVWGRKPFLLGTVFFT  
CFPIPLMRISPCQA

>sp|075121|MFA3L\_HUMAN Microfibrillar-associated protein 3-like OS=Homo sapiens GN=MFAP3L  
PE=1 SV=3

MDRLKSHLTVCFLPSVPFLILVSTLATAKSVTNSTLNGTNVVLGSPVVIARTDHIIVKE  
GNSALINCSVYIGIPDPQFKWYNSIGKLLKEEEDKERRGGGKWMHDSGLLNITKVSFSDR  
GKYTCVASNIYGTVNNTVTLRVIFTSGDMGVYVMVCLVAFTIVMVLNITRLCMMSSHLK  
KTEKAIN EFFRTEGA EKLQKAFEIAKRIP IITS AKTLELAKVTQFKTMEFARYIEELARS  
VPLPPLIMNCRTIMEEIMEVVGLEEQGNFVRHTPEGQEAADRDEVYTIPNSLKRSDSPA  
ADSDASSLHEQPQQAIAKVSVHPQSKKEHADDQEGGQFEVKDVEETELSAEHSPETAEPS  
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>sp|Q13361|MFAP5\_HUMAN Microfibrillar-associated protein 5 OS=Homo sapiens GN=MFAP5 PE=1  
SV=1

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VLADIAPSTDDLASLSEKNTTAE CWDEKFTCTRLYSVHRPVKQCIHQLCFTSLRRMYIVN  
KEICSR LVCKEHEAMKDEL CRQMAGLPPRR LRRSNYFRLPPCENVDLQRPNGL

>sp|Q9Y4C4|MFHA1\_HUMAN Malignant fibrous histiocyto ma-amplified sequence 1 OS=Homo  
sapiens GN=MFHAS1 PE=1 SV=2

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NRLTALGA EVVSALREL RKLNL SHNQLPALPAQLGALAHLEELDV SFNRLAHL PDSL SCL  
SRLRTL DV DHNQLTAFPRQLQLVALEELDVSSNRLRGLPEDISALRALKILWLSGAELG  
TLPAGFC ELASLESMLDNNGLQALPAQF SCLQRLKMLNLSSNLFEEFPAALLPLAGLEE  
LYLSRNQLTSVPSLISGLGRLLTLWLDNNRIRYLPDSIVELTGLEELVLQGNQIAVLDPH  
FGQLSRVGLWKIKDNPLIQPPYEVCMKGIPYIAAYQKELAHSQPAVQPRLKLLMGHKAA



GKTLRRHCLTEERVEGCPGGGDKKCYPPSPPPVSKGIEVTSWTADASRGLRFIVYDLAG  
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LCGERELEEKCLDIHRQIALQEKHDAEGLSRLAKVVDEALARDFELRSASPHAAYYGVSD  
KNLRRRKAHFQYLLNHLRLQILSPVLPVSCRDPRLRRLRDKLLSVAEHREIFPNLHRVLP  
RSWQVLEELHFQPPQAQRLWLSWWDSARLGLQAGLTEDRLQSALSYLHESGKLLYFEDSP  
ALKEHVFHNLTRLIDILNVFFQRDPSLLHKLKLLGTSGEGKAEGESSPPMARSTPSQELL  
RATQLHQYVEGFLHGLLPAHVIRLLKPHVQAQDLQLLELLEKMGCLCYCLNPKPGKP  
LNGSTAWYKFPCYVQNEVPFAEAWINGTNLAGQSFVAEQLQIEYSFPPTFPLGLFARYSV  
QINSHVVHRSDGKFQIFAYRGKVPVVVSYPARGVLQPDTLSIASHASLPNIWTAWQAIT  
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>sp|Q8IWA4|MFN1\_HUMAN Mitofusin-1 OS=Homo sapiens GN=MFN1 PE=1 SV=2

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ESGVALAEGFHARLQEFQNFQIFEECISQSAVKTKFEQHTIRAKQILATVKNIMDSVNL  
AAEDKRHYSVEEREDQIDRLDFIRNQMNLLTLDVKKKIKEVTEEVANKVSCAMTDEICRL  
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KPLLPAGIQDKLHTLIPCKKFDSLNYHKLCSDFQEDIVFPFSLGWSSLVHRFLGPRN  
AQRVLLGLSEPIFQLPRSLASTPTAPTTPATPDNASQEELMITLVTGLASVTSRTSMGII  
IVGGVIWKTIGWKLLSVSLTMYGALYLYERLSWTTHAKERAFFKQFVNYATEKLRMIVSS  
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>sp|Q2M2H8|MGAL\_HUMAN Probable maltase-glucoamylase 2 OS=Homo sapiens GN=MGAM2 PE=2 SV=3

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SHTSLAPTNSNLGTMIDTADANSSSVTGNTHISVSNLTASVTITATGLDSQTPHMI  
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>sp|Q8IWI9|MGAP\_HUMAN MAX gene-associated protein OS=Homo sapiens GN=MGA PE=1 SV=3

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SMGFSSNAPTSPVVYQLPTKSTSYVRTLDSVLKKQSTISPSTSYSLKPHSVPPVSRKAKS  
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ENIFPKQISLRQAQQQQQQQSRPPGLSKSQVKLMDLED CALWEGKPRTYITEERADVS  
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>sp|043451|MGA\_HUMAN Maltase-glucoamylase, intestinal OS=Homo sapiens GN=MGAM PE=1 SV=5  
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>sp|Q5XKP0|MIC13\_HUMAN MICOS complex subunit MIC13 OS=Homo sapiens GN=MIC13 PE=1 SV=1  
MVARVWSLMRFLIKG SVAGGAVYLVYDQELLGPSDKSQAALQKAGEVVPPAMYQFSQYVC  
QQTGLQIPQLPAPPKIYFPIRDSWNAGIMTVMSALSVAPS KAREYSKEGWEYVKARTK

>sp|Q9NX63|MIC19\_HUMAN MICOS complex subunit MIC19 OS=Homo sapiens GN=CHCHD3 PE=1 SV=1  
MGTTSTRRTFEADENENITVVKGIRLSENVIDRMKESPSGSKSQRYSGAYGASVSDE  
ELKRRVAEELALEQAKKESEDQKRLKQAKELDRERAAANEQLTRAILRERICSEEERAKA  
KHLARQLEEKDRVLKKQDAFYKEQLARLEERSSEFYRVTT EQYQKAAEEVEAKFKRYESH  
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>sp|Q6UXV4|MIC27\_HUMAN MICOS complex subunit MIC27 OS=Homo sapiens GN=AP00L PE=1 SV=1  
MAAIRMGKLTTMPAGLIYASVSVHAAKQEE SKQLVKPEQLPIYTAPPLQSKYVEEQPGH  
LQMGFASIRTATGCYIGWCKGVYFVKN GIMDTVQFGKDAYVYLKNPPRDFLPKMGVITV  
SGLAGLV SARKGSKFKKITYPLGLATLGATVCYPVQSVIIAKVTAKKVYATSQQIFGAVK  
SLWTKSSKEESLPKPKEKTKLGSSEIEVPAKTTHVLKHSVPLPTELSSEAKTKSESTSG  
ATQFMPPDKLMDHGQSHPEDIDMYSTRS

>sp|PODMT0|MLN\_HUMAN Myoregulin OS=Homo sapiens GN=MRLN PE=3 SV=1  
MTGKNWILISTTTPKSLEDEIVGRLLKILFVIFVDLISIIYVVITS

>sp|Q9BWT6|MND1\_HUMAN Meiotic nuclear division protein 1 homolog OS=Homo sapiens GN=MND1  
PE=1 SV=1

MSKKKGLSAEEKRTRMMEIFSETKDVFLKDLEKIAPKEKGITAMSVKEVLQSLVDDGMV  
DCERIGTSNYYWAFPSKALHARKHKLEVLESQ LSEGSQKHASLQKSIEKAKIGRCETEER  
TRLAKELSSLRDQREQLKAEVEKYKDCDPQVVEEIRQANKVAKEAANRWDNIFA KSWA  
KRKFGFEENKIDRTFGIPEDFDYID

>sp|Q99583|MNT\_HUMAN Max-binding protein MNT OS=Homo sapiens GN=MNT PE=1 SV=1  
MSIETLLEAARFLEWQAQQQQRAREEQERLRLEQEREQEQQKANSLARLAHTLPVEEPRM

EAPPLPLSPPAPPPAPPPPLATPAPLTVIPVVTNSPQLPPPPPLPAAAQPLPLAPRQ  
PALVGAPGLSIKEPAPLPSRPQVPTAPLLPDSKATIPPNGSPKPLQPLPTPVLTIAPHP  
GVQPQLAPQQPPPTLTGLKLAPAEVKSSEQKKRPGGIGTREVNKLEKNRRAHLKECF  
ETLKRNI PNDDKKT SNLSVLRTALRYIQSLKRKEKEYEHMERLAREKIATQQRLAELK  
HEL SQWMDVLEIDRVLRQTGPEDDQASTSTASEGEDNIDEDMEEDRAGLGPPKLSHRPQ  
PELLKSTLPPSTTPAPLPPHPHPHSVALPPAHLPVQQQQPQQKTPLPAPPPPAAPA  
QTLVPAPAHLVATAGGGSTVIAHTATTHASVIQTVNHVLQGPGGKHIAHIAPSAPSPAVQ  
LAPATPPIGHITVHPATLNHVAHLGSQLPLYPQPVAVSHIAHTLSHQVNGTAGLGPPAT  
VMAKPAVGAQVVHHPQLVGQTVLNPVTMTMPSFPVSTLKL

>sp|Q6Q8B3|M02R2\_HUMAN Cell surface glycoprotein CD200 receptor 2 OS=Homo sapiens  
GN=CD200R1L PE=2 SV=2

MSAPRLISIIIMVSASSSSCMGGKQMTQNYSTIFAEGNISQPVLM DINAVLCCPIALR  
NLIIITWEIILRGQPSTCKAYKKETNETKTNCTVERITWVSRPDQNSDLQIRPVDTHD  
GYRGIVVTPDGNFHRGYHLQVLVTPEVNLFQSRNITAVCKAVTGKPAAQISWIPEGSIL  
ATKQEWGNGT VTKSTCPWEGHKSTVTCHVSHLTGNKSLSVKLNSGLRTSGSPALSLLI  
ILYVKLSLFFVILVTGFFVQRINHVRKVL

>sp|Q9UBU8|M04L1\_HUMAN Mortality factor 4-like protein 1 OS=Homo sapiens GN=MORF4L1 PE=1  
SV=2

MAPKQDPKPKFQEGERVLCFHGPLYEAKCVKVAIKDKQVKYFIHYS GWNKKS AVRPRRS  
EKS LKTHE DIVALFPVPEGAPSVHHPLLTSSWDEWVPESRVLKYVDTNLQKQRELQKANQ  
EQYAE GKM RGAAPGKKTSGLQKQNV E VTKKNKQKTPGNGDGGSTSETPQPPRKKRARVD  
PTVENEETFMNRVEVKVIPEELKPWLVD D WDLITRQKQLFYLP AKKNVDSILEDYANYK  
KSRGNTDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILADHPDAPMSQVYGAP  
HLLRLFVRIGAMLAYTPLDEKSLALLLN YLHDFLKYLA KNSATLFSASDYEVA PPEYHRK  
AV

>sp|O15553|MEFV\_HUMAN Pryn OS=Homo sapiens GN=MEFV PE=1 SV=1  
MAKTPSDHLLSTLEELVPYDFEFKFKLQNTSVQKEHSRIPRSQIQRARPVKMATLLVTY  
YGEEYAVQLTLQVLRAINQLLAEELHRAAIQEYSTQENGTDDSAASSSLGENKPRSLKT  
PDHPEGNEGNGPRPYGGGAASLRCSQPEAGRGLSRKPLSKRREKASEGLDAQGKPRTRSP  
ALPGGRSPGPCRALEGGQAEVRLRRNASSAGRLQGLAGGAPGQKECRPFVYLP SGKMRP  
RSLEVTISTGEKAPANPEILLTLEEKTAANLDSATEPRARPTPDGGASADLKEGPGNPEH  
SVTGRPPDTAASPRCHAQEGDPVDGTCVRDSCSFPEAVSGHPQASGSRSPGCPRCQDSHE  
RKSPGSLSPQPLPQCKRHLKQVQLFCEDHDEPICLICSLSQEHQGHRVRPIEEVALEHK  
KKIQKQLEHLKKLRKSGEEQRSYGEEKAVSFLKQTEALKQRVQRKLEQVYFFLEQQEHFF  
VASLEDVGQMVGGIRKAYDTRVSQDIALLDALIGELEAKECQSEWELLQDIGDILHRAKT  
VPVPEKWTPQEIKQKIQLLHQKSEFVEKSTKYFSETLRSEMEMFNP ELIGAQAHAVNV  
ILDAETAYPNLIFSDDLKSVRLGNKWERLPDGPQRFDSCIIVLGSPSFLSGRRYWEVEVG  
DKTAWILGACKTISRKGNMTLSPENGYWVIMMKENEYQASSVPPTRLLIKEPPKRVGI  
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D

>sp|075095|MEGF6\_HUMAN Multiple epidermal growth factor-like domains protein 6 OS=Homo  
sapiens GN=MEGF6 PE=1 SV=4

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PCVQALSHTVPVWKAGCGWQAWCVGHERRTVYVMGYRQVYTTEARTVLRCCRGWMQQPDE

EGCLSAECSASLCFHGGRCVPGSAQPCHCPPGFQGPCQYDVDECRTNNGGCQHRCVNTP  
GSYLCECKPGFRLHTDSRTCLAINSCALNGGCQHHCVQLTITRHCQCRPGFQLQEDGR  
HCVRRSPCANRNGSCMHRCQVVRGLARCECHVGQYLAADGKACEDVDECAAGLAQCAHGC  
LNTQGSFKCVCHAGYELGADGRQCYRIEMEIVNSCEANNGGCSHGCSHTSAGPLCTCPRG  
YELDTDQRTCIDVDDCADSPCCQVCTNNPGGYECGYAGYRLSADGCGCEDVDECASSR  
GGCEHHCTNLAGSFQCSCEAGYRLHEDRRGCSPLEEPMVDLDGELPFVRPLPHIAVLQDE  
LPQLFQDDDVGADEEEAELRGEHTLTEKFVCLDDSFHDCSLTCDDCRNGGTCLLGLDGC  
DCPEGWTGLICNETCPPDTFGKNCSFSCSCQNGGTCDSVTGACRCPPGVSGTNCEDGCPK  
GYYGKHCRKKCNANRGRCHRLYGACLCDPGLYGRFCHLTCPWAFGPGCSEECQCVQPH  
TQSCDKRDGSCSCKAGFRGERCQAECELGYFGPGCWQACTCPVGVACDSVSGECGKRCPA  
GFQGEDCGQECPVGTFGVNCSSSCSCGAPCHGVTGQCRCPPGRTGEDCEADCEGRWGL  
GCQEICPACQHAARCDPETGACLCLPGFVGSRCQDVCPAGWYGPSCQTRCSCANDGHCHP  
ATGHCSAPGWTGFSCQRACDTGHWGPDCSHPCNCSAGHGSCDAISGLCLCEAGYVGPCR  
EQQCPQGHFGPGCEQRCQCQHGAACDHVSGACTCPAGWRGTFCHEACPAFFGLDCRSAC  
NCTAGAACDAVNGSCLCPAGRRGPRCAETCPAHTYGHNCQACACFNGASCDPVHGQCHC  
APGWMGPSCLQACPAGLYGDNCRHSCLCQNGGTCDPVSGHCACPEGWAGLACEKECLPRD  
VRAGCRHSGGCLNGLCDPHTGRCLCPAGWTGDKCQSPCLRGWFGEACAQRCSCPPGAAC  
HHVTGACRCPPGFTGSGCEQACPPGSFGEDCAQMCQCPGENPACHPATGTCSAAGYHGP  
SCQQRCPPGRYGPGCEQLCGCLNNGSCDAATGACRCPTGFLGTDCNLTCPQGRFGPNCTH  
VCGCGQAACDPVTGTCLCPPGRAGVRCERGCPQNRFGVGCEHTCSCRNGGLCHASNGSC  
SCGLGWTGRHCELACPPGRYGAACHLECSCHNNSTCEPATGTCRCGPGFYGQACEHPCPP  
GFHGAGCQGLCWCQHGAPCDPI SGRCLCPAGFHGHFCERGCEPGSFGECHQRCDCDGA  
PCDPVTGLCLCPPGRSGATCNLDCRRGQFGPSTLHCDCGGGADCDPVSGQCHCVDGYMG  
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>sp|Q7Z7M0|MEGF8\_HUMAN Multiple epidermal growth factor-like domains protein 8 OS=Homo  
sapiens GN=MEGF8 PE=1 SV=2

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IEAPSPQHRILLDFLFDTECTYDYL FVYDGDSPRGPLLASLSGSTRPPP IEASSGKMLL  
HLFSDANYNLLGFNASFRFSLCPGGCQSHGQCQPPGVCACEPGWGGPDCGLQECSAYCGS  
HGTCASPLGPCRCEPGFLGRACDLHLWENQGAGWWHNVSARDPAFSARIGAAGAFLSPPG  
LLAVFGGQDLNNA LLDLVLYNFSANTWESWDLSPAPAAHSHVAVAWAGSLVLMGGELAD  
GSLTNDVWAFSPLGRGHWELLAPPASSSSGPPGLAGHAAALVDDVWL YVSGGRTPHDLFS  
SGLFRFRLDSTSGGYWEQVIPAGGRPPAATGHSMVFHAPSRA LLVHGGHRPSTARFSVRV  
NSTELFHVDRHVWTLTKGRDGLQGPRERAFHTASVLGNYMVVYGGNVHTHYQEEKCYEDG  
IFFYHLGCHQWVSGAELAPPGTPEGRAAPP SGRYSHVAAVLGGSVLLVAGGYSGRPRGDL  
MAYKVPPFVFQAPAPDYHLDYCSMYTDHSVCSRDECSWCQGACQAAPPPGTPLGACPAA  
SCLGLGRLLGDCQACLAFFSPTAPPRGPTLGWCVHNESCLPRPEQARCRGEQISGTVGW  
WGPAPVFTSLEACVTQSFLPGLHLLTFQQPPNTSQPDKVSIVRSTTITLTPSAETDVSL  
VYRGFIYPMLPGGPGGPAEDVAVWTRAQRLHVLARMARGPD TENMEEVGRWVAHQEKET  
RRLQRPGSARLFLPLGRDHKYAVEIQQLNGSAGPGHSEL TLLWDRTGVPGGSEISFFFL  
EPYRSSSCTSYSSCLGLADQCGGWCLTSATCHLRQGGAHCGDDGAGGSLLVLVPTLCPL  
CEEHRDCHACTQDPFCEWHQSTS RKGDAACSRGRGRGALKSPEECPLCSQRLTCEDCL  
ANSSQCAWCQSTHTCFLFAAYLARYPHGGCRGWDDSVHSEPRCRSCDGF LTCHECLQSHE  
CGWCGNEDNPTLGRCLQGDFSGPLGGGNC SLWVGEGLGLPVALPARWAYARCPDVDECRL

GLARCHPRATCLNTPLSYECHCQRGYQGDGISHCNRTCLEDGCHGVCSGPPDFTCVCDLG  
WTSDLPPPTPAPGPPAPRCSRDCGCSFHSCHCRKRGPGFCDECQDWTWGEHCERCPRGSFG  
NATGSRGRCPQCNGHGDPRRGHCDNLSGLCFCQDHTEGAHCQLCSPGYYGDPRAGGSCF  
RECGGRALLTNVSSVALGSRRVGGLPPGGGAARAGPGLSYCVWVVSATEELQPCAPGTL  
CPPLTLTFSPDSSTPCTLSYVLAFDGFPRFLDTGVVQSDRSLIAAFCGQRRDRPLTVQAL  
SGLLVLHWEANGSSSWGFNASVGSARCGSGGPGSCPVPQECVPQDGAAGAGLCRCPQGWA  
GPHCRMALCPENCNAHTGAGTCNQLGVCICAEGFGGPDCAKLDGGQLVWETLMDSRLS  
ADTASRFLHRLGHTMVDGPDATLWMFGGLGLPQGLLGNLYRYSVSERRWTQMLAGAEDGG  
PGSPRSFHAAYVPAGRGAMYLGLTAGGVTRDFWVLNLTTLQWRQEKAPQTVELPAV  
AGHTLTARRGLSLLLVGGYSPENGFNQQLLEYQLATGTWVSGAQSGTPPTGLYGHSAVYH  
EATDSLIVFGGFRFHVLAAPSPELYSLHCPDRTWSLLAPSQGAKRDRMRNVRGSSRGLG  
QVPGEQPGSWGFEVRKMMALWAALAGTGGFLEEISPHLKEPRPRLFHASALLGDTMVVL  
GGRSDPDEFSSDVLLYQVNCNAWLLPDLTRSASVGPPEESVAHAVAAGVSRLYISGGFG  
GVALGRLLALTLPDPCLSSPEACNQSGACTWCHGACLSGDQAHRLCGGSPCSPMPR  
SPEECRRLRTCSECLARHPRTLQPGDGEASTPRCKWCTNCPEGACIGRNGSCTSENDCRI  
NQREVFWAGNCSEAACGAADCEQCTREGKCMWTRQFKRTGETRRILSVQPTYDWTCFSHS  
LLNVSPMPVESSPPLPCPTPCHLLPNCTSCLDKSGADGGWQHCVWSSSLQQCLSPSYLPL  
RCMAGGCGRLLRGPESCSLGAQATQCALCLRRPHCGWCAWGGQDGGGRCMEGGLSGPRD  
GLTCGRPGASWAFLSCPPPEDECANGHDCNETQNCHDQPHGYECCKTGYTMDNMTGLCR  
PVCAQGCNVGSCVEPDHCRCHFGFVGRNCSTECRCNRHSECAGVGARDHCLLCRNHTKGS  
HCEQCLPLFVGSAVGGGTCRCHAFCRGNSHICISRKELQMSKGEPKKYSLDPEEIEENWV  
TEGPSEDEAVCVNCQNNYGEKCESCLQGYFLLDGKCTKCQCNGHADTCNEQDGTGCPCQ  
NNTETGTCQGSSPSDRRDYKYQCAKCRESFHGSPLGGQQCYRLISVEQECCLDPTSQTN  
CFHEPKRRALGPGRTVLFGVQPKFTNVDIRLTLDVTFGAVDLYVSTSYDTFVVRVAPDTG  
VHTVHIQPPPPPPPPADGGPRGAGDPGGAGASSGPGAPAEPRVREVWPRGLITYVTV  
TEPSAVLVVRGVRDLVITYPHEHHALKSSRFYLLLLGVGDPSGPGANGSADSQGLLFFR  
QDQAHIDLFFVFFSVFFSCFFLFLSLCVLLWKAKQALDQRQEQRRLQEMTKMASRPFQV  
TVCFPPDPTAPASAWKPAGLPPAFRRSEPFAPLPLLTGAGGPWGPMMGGCCPPAIPATT  
AGLRAGPITLEPTEDGMAGVATLLLQLPGGPAPNGACLSALVTLRHRLHEYCGGGGGA  
GGSGHGTGAGRKGLLSQDNLTSM

>sp|Q9H1U4|MEGF9\_HUMAN Multiple epidermal growth factor-like domains protein 9 OS=Homo sapiens GN=MEGF9 PE=2 SV=3

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GEPHPPFRATAPTAQAPRTGPPRATVHRPLAATSPAQSPETTPWATAGPSSTTFQAPL  
GPSPTTPPAAERTSTTSQAPTRPAPTTLSTTTGPAPTPVATTVPAPTPRTPTDLPSS  
SNSSVLPTPPATEAPSSPPEYVCNCSVVGSLNVNRCNQTTGQCECRPGYQGLHCETCKE  
GFYLNYSGLCQPCDCSPHGALSIPCNSSGKCQCKVGVIGSICDRCQDGYGFSKNGCLP  
CQCNNRSASCDALTGACLNQENSKGNHCEECKEGFYQSPDATKECLRCPCSAVTSTGSC  
SIKSSSELEPCDQCKDGYIGPNCNKCENGYNFDSICRKCQCHGHVDPVKTPIKICKPESG  
ECINCLHNTTGFWCENCLEGYVHDLEGNCKEVIKILPTPEGSTILVSNASLTTSVPTPVI  
NSTFTPTTLQTIFSVSTSENSTALADVSWTQFNIIILTVIIIVVLLMGFVGAVYMYRE  
YQNRKLNAPFWTIELKEDNISFSSYHDSIPNADVSGLLEDDGNEVAPNGQLTLTTPIHNY  
KA

>sp|000470|MEIS1\_HUMAN Homeobox protein Meis1 OS=Homo sapiens GN=MEIS1 PE=1 SV=1

MAQRYDDLPHYGGMDGVGIPSTMYGDPHAARSMQPVHHLNHGPPLHSHQYPHTAHTNAMA  
PSMGSSVNDALKRKDAIYGHPLFPLLALIFEKCELATCTPREPGVAGGDVCSSESFNED  
IAVFAKQIRAEKPLFSSNPELDNLMIAIQVLRFHLLLELEKVHELCDNFCHRYISCLKGK  
MPIDLVIDDREGGSKSDEDIRSANLTDQPSWNRDHDDTASTRSGGTPGPSSGGHTSHS  
GDNSSEQGDGLDNSVASPSTGDDDDPDKDKKRHKRGIFPKVATNIMRAWLFQHLTHPYP  
SEEQKKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAVSQGTPYNPDGQPMGGFVM  
DGQQHMGIRAPGPMMSGMGMNMGMEGQWHYM

>sp|Q99687|MEIS3\_HUMAN Homeobox protein Meis3 OS=Homo sapiens GN=MEIS3 PE=2 SV=3

MARRYDELPHPYGIWDGPAALASFETVPAVPGPYGPHRPPQPLPPGLSDGLKREKDEI  
YGHPLFPLLALVFEKCELATCSRDGAGAGLTPPGDVCSSDSFNEDIAAFKQVRSER  
PLFSSNPELDNLMIAIQVLRFHLLLELEKVHDLCDNFCHRYITCLKGKMPIDLVIDRDG  
GCREDFEDYPASCPLPDQNNMWIRDHEDSGSVHLGTPGPSSGGLASQSGDNSSDQGDGL  
DTSVASPSSGGEDEDLQERRRNKKRGIFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQ  
DTGLTILQVNNWFINARRRIVQPMIDQSNRTGGAAFSPEGQPIGGYTETQPHVAVRPPG  
SVGMSLNLEGEWHYL

>sp|Q14D04|MELT\_HUMAN Ventricular zone-expressed PH domain-containing protein homolog 1  
OS=Homo sapiens GN=VEPH1 PE=2 SV=1

MHQLFRLVLGQKDLSRAGDLFSLDDSEIEDSLTEALEQIKIISSSSDYQTNNDQAVVEI  
CITRITTAIRETESIEKHAKALVGLWDSLEHNLRPFGKDEDTPHAKIASDIMSCILQNY  
NRPPVMALAIPIAVKFLHRGNKELCRNMSNYLSLAATKADLLADHTEVIVKSILQGNTM  
LLRVLPAVYEKQPQPINRHLTELLALMSQLEQPEQYHLLRLLHVAKKKQLEVVQKCIPF  
LIGHLKDSHTNDIILNILEIAVYEPVALNSFLPMLKEIGERFPYLTGQMARIYGAVGHV  
DEERARSCLTYLVSQLANMEHSFHHILLEIKSITDTFSSILGPQSRDIFRMSNSFTAIA  
KLLTRQLENTKAGSGRRKISTEIEFPEKLEETKLIVTENEDHEKLQVKIQAFEDKINAGS  
NTPGSIRRYSLGQVSKEERKNIRFNRSKSLAFHTMLTKGVGSDDGEDENRGDIPASISLS  
EIDPLGQGNDKLPFKTDTERSQLGESSVSYPNIIHIDSENLSSETVKENSQEETPETTASP  
IEYQDKLYLHLKKNLSKVAYAMEIGKKIPVPDQCTIEDTVRSCVAKLFFTCSLKGHYCL  
YSKSSFILISQEPQPIQIMFLFQQSLFPEPLSIQSHSVQFLRALWEKTQAGGAHSFETA  
MMESTFPQQKDLQVQLHLEEVRFDFVGFSETAGAWQCFMCNNPEKATVVNQDGQPLIE  
GKLKEKQVRWKFIKRWKTRYFTLAGNQLLFQKGKSKDDPDDCPIELSKVQSVKAVAKRR  
DRSLPRAFEIFTDNKTYVFAKDEKNAEELWQCINVAQAQAKERESREVTYTL

>sp|Q9BUN1|MENT\_HUMAN Protein MENT OS=Homo sapiens GN=MENT PE=2 SV=1

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SRELPSATPNTAGSSSTRFIANSQEPEIRLTSSLPRSPGRSTEDLPGSQATLSQWSTPGS  
TPSRWSPSPPTAMPSPEDLRLVMPWGPWHCHCKSGTMSRSRSGKLHGLSGRLRVGALSQ  
LRTEHKPCTYQQCPNRLREECPLDTSCTDNCASQSTSTRTTTTPFPTIHLRSSPSL  
PPASPCPALAFWKVRIGLEDIWNLSVVFTEMQPIDRNQR

>sp|Q9H9K5|MER34\_HUMAN Endogenous retrovirus group MER34 member 1 Env polyprotein OS=Homo  
sapiens GN=ERMER34-1 PE=2 SV=1

MGSLSNYALLQLTLTAFLTILVQPQHLLAPVFRTLSILTQSNCWLCHELDNAEQPELVF  
VPASASTWWTYSQGWMYERVWYPQAEVQNHSTSSYRKVTWHWEASMEAQGLSFAQVRLLE  
GNFSLCVENKNGSGPFLGNIPKQYCNQILWFDSTDGTFMPSIDVTNESRNDDDTSVCLG  
TRQCSWFAGCTNRTWNSSAVPLIGLPNTQDYKWVDRNSGLTWSGNDTCLYSCNQTKGLL



YQLFRNLFCSYGLTEAHGKWRCADASITNDKGHDGHRTPTWWLTGSNLTLSVNNSGLFFL  
CGNGVYKGFPPKWSGRCLGYLVPSLTRYLTNLASQITNLRSEIHKVTPHRCTQGDTDNP  
PLYCNPKDNSTIRALFPSLGTYLEKAILNISKAMEQEFSATKQTLEAHQSKVSSLASAS  
RKDHVLDIPTTQRQTACGTVGKQCCLYINYSEEIKSNIQRLHEASENLKNVPLLDWQGIF  
AKVGDWFRSWGIVLLIVLFCLFIFVLIYVRVFRKSRRSLNSQPLNLALSPQQSAQLLVSE  
TSCQVSNRAMKGLTTHQYDTSLL

>sp|Q8N6R0|MET13\_HUMAN Methyltransferase-like protein 13 OS=Homo sapiens GN=METTL13 PE=1  
SV=1

MNLLPKSSREFGSVDYWEKFFQQRGKKAFEWYGYLELCGVLHKYIKPREKVLVIGCGNS  
ELSEQLYDVGYRDIVNIDISEVVIKQKMECNATRRPQMSFLKMDMTQMEFPDASFQVVD  
KGTLDVLTDEEEKTLQQVDRMLAEVGRVLQVGGRYLCISLAQAHILKKAVGHFSREGWM  
VRVHQVANSQDQVLEAEPQFSLPVFAFIMTKFRPVPGSALQIFELCAQEQRKPVRLSAE  
RLAEAVQERQQYAWLCSQLRRKARLGSVSLDLCDDGTGEPYRTLHVVDSPVTKPSRDNHF  
AIFIIPQGRETEWLFMGDEGRKQLAASAGFRRLITVALHRGQQYESMDHIQAELSARVME  
LAPAGMPTQQQVPFLSVGGDIGVRTVQHQCSPLSGDYVIEDVQDDKRYFRRLIFLSNR  
NVVQSEARLLKDVSHKAQKKRKKDRKKQRPADAEDLPAAPGQSIDKSYLCCEHHKAMIAG  
LALLRNPELLLEIPLALLVVGGLGSLPLFVHDHFPKSCIDAVEIDPSMLEVATQWFGFS  
QSDRMKVHIADGLDYIASLAGGGEARPCYDVIMFDVDSKDPTLGMSCPPPAFVEQSFLQK  
VKSILTPEGVFILNLVCRDLGLKDSVLAGLKAVFPLLYVRRIEGEVNEILFCQLHPEQKL  
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>sp|A6NJ78|MET15\_HUMAN Probable methyltransferase-like protein 15 OS=Homo sapiens  
GN=METTL15 PE=1 SV=1

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QDRDFETMAKLHIPVMVDEVVHCLSPQKGQIFLDMTFGSGGHTKAILQKESDIVLYALDR  
DPTAYALAEHLSELYPKQIRAMLGQFSQAEALLMKAGVQPGTFDGVMLDLCSSMQLDTP  
ERGFSLRKDGPLMRMDGGRYPDMPAADVNALDQQALASILRTYGEEKHAKKIASAIV  
QARSIYPITRTQQLASIVAGAFPPSAIYTRKDLLQRSTHIATKTFQALRIFVNNELNELY  
TGLKTAQKFLRPGGRLVALSFHSLEDRIKRFLLGISMTERFNLSVRQQVMKTSQLGSDH  
ENTEEVSMRRAPLMWELIHKVLSPPQDQVDQNPGRSAKLRAAIKL

>sp|O95568|MET18\_HUMAN Histidine protein methyltransferase 1 homolog OS=Homo sapiens  
GN=METTL18 PE=1 SV=1

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WEHKSMENAAPSQDTSPLSAASSRNLEPHGKQPSLRAAKEHAMPKDLKKMLNENKVIET  
LPGFQHVKL SVVKTILLKENFPGENIVSKSFSSHSDLITGVYEGGLKIWECTFDLLAYFT  
KAKVKFAGKKVLDLGCGLLGITAFKGSKEIHFQDYSNMVIDEVLTPNVVANSTLEDE  
ENDVNEPDVKRCRKPVTQLYKCRFFSGEWSEFCKLVLSSEKLFVKYDLILTSETIYNPD  
YYSNLHQTFRLRLSKNGRVLLASKAHYFGVGGGVHLFQKFVEERDVFKTRILKIIDEGLK  
RFIIETFKFPG

>sp|Q9H8H3|MET7A\_HUMAN Methyltransferase-like protein 7A OS=Homo sapiens GN=METTL7A PE=1  
SV=1

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFYFLVRFTVIYNEQMASKKRELFS  
NLQEFAGPSGKLSLEVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFE  
RFVVAAGENMHQVADGSVDVVVCTLVLCVKNQERILREVCRLRPGGAFYFMEHVAAEC  
STWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASFSLKLQHIQAPLSWELVRPHIYG

YAVK

>sp|Q6ZN04|MEX3B\_HUMAN RNA-binding protein MEX3B OS=Homo sapiens GN=MEX3B PE=1 SV=1

MPSSLFADLERNSSGGGGSSGGGETLDDQRALQLALDQLSLLGLDSDEGASLYDSEPR  
KKSVMTECVPPVPSSEHVAEIVGRQGCKIKALRAKTNTYIKTPVRGEEPVFVVTGRKEDV  
AMARREIISAAEHFSMIRASRNKNTALNGAVPGPPNLPGQTTIQVRVPYRVVGLVVGPKG  
ATIKRIQQQTHTYIVTPSRDKEPVFEVTGMPENVDRAREEIEAHIALRTGGIIELTDEND  
FHANGTDVGFDLHHGSGSGPSLWSKPTPSITPTPGRKPFSSYRNDSSSSLGSASTDSY  
FGGGTSSSAAATQRLADYSPPSPALSAFHNGNNNNNGYTYTAGGEASVSPDGCPELQ  
PTFDPAPAPPPGAPLIWAQFERSPGGPAAPVSSSSSSSSSSSSSSSVFPGGGASAPS  
NANLGLLVHRRHPGTSCPRLSPPLHMAPGAGEHHLARRVRSDPGGGGLAYAAYANGLGA  
QLPGLQPSDTSGSSSSSSSSSSSSSSSGLRRKGSRDSCVCFESEVIAALVPCGHNLFCE  
ECANRICEKSEPECPVCHTAVTQAIRIFS

>sp|Q99685|MGLL\_HUMAN Monoglyceride lipase OS=Homo sapiens GN=MGLL PE=1 SV=2

MPKESSPRTPQSIPYQDLPHLVNADGQYLCRYWKPTGTPKALIFVSHGAGEHSGRYEE  
LARMLMGLDLLVFAHDHVGHGQSEGERMVVSDFHVFVRDVLQHVDMSMQDYPLPVFLLG  
HSMGGAIAILTAERPFGHFAGMVLISPLVLNPESATTFKVLAAKVLNLVLPNLSLGPID  
SSVLSRNKTEVDIYNSDPLICRAGLKVCFGIQLLNAVSRVERALPKLTPFLLLQGSADR  
LCDSKGAYLLMELAKSQDKTLKIYEGAYHVLHKELPEVTNSVFHEINMWVSQRTATAGTA  
SPP

>sp|Q5JRA6|MIA3\_HUMAN Melanoma inhibitory activity protein 3 OS=Homo sapiens GN=MIA3 PE=1 SV=1

MAAAPGLLVWLLVLRPLPWRVPGQLDPSTGRRFSEHKLCADDECSMLMYRGEALEDFTGPD  
CRFVNFKKGDPVYVYKLGARGPEVWAGSVGRFTGYFPKDLIQVVHEYTKHEELQVPTDET  
DFVCFDGGRRDDFHNYNVEELLGFLELYNSAATDSEKAVEKTLQDMEKNPELSKEREPEPE  
PVEANSEESDSVFSENTEDLQEFTTQKHSHANSQANHAQGEQASFESFEMLQDKLKV  
PESENNKTSNSSQSNEQDKIDAYKLLKKEMTDLKTKFGSTADALVSDDETTRLVTSLE  
DDFDEELDTEYYAVGKEDEENQEDFDELPLLTFTDGEDMKTPAKSGVEKYPTDKEQNSNE  
EDKVQLTVPPGIKNDKNILTTWGDITFSIVTGGEETRDMDLESSSSEEEKEDDDALV  
PDSKQKGKPSATDYSDDPNVDDGLFIVDIPKTNNDKEVNAEHHIKGKGRGVQESKRGLVQ  
DKTELEDENQEGMTVHSSVHSNNLNSMPAAEKGKDTLKSAYDDTENDLKGAATHISKGML  
HEEKPGEQILEGGSESESAQAAGNQMNDRKIQQESLGSAPLMGDDHPNASRDSVEGDAL  
VNGAKLHTLSVEHQREELKEELVLKTQNQPRFSSPDEIDLPRELEDEVPIILGRNLPWQQE  
RDVAATASKQMSEKIRLSEGEAKEDSLDEEFFHHKAMQGTEVGQTDQTDSTGGPAFLSKV  
EEDDYPSEELLEDENAINAKRSKEKNPGNQGRQFVNLQVPDRAVLGTIHPDPEIEESKQ  
ETSMILDSEKTSETAAKGVNTGGREPNTMVEKERPLADKKAQRPFERSDFSISIKITPE  
LGEVFQNKDSYDLKNDNPEEHLKTSGLAGEPEGELSKEDHENTEKYMGTESQGSAAAEPE  
DDSFHWTPHTSVEPGHSDKREDLLIISSFFKEQQSLQRFQKYFNVHELEALLQEMSSKLK  
SAQQESLPYNMEKVLDKVFRASESQILSIAEKMLDTRVAENRDLGMNENNIFEEAAVLDD  
IQDLIYFVRYKHSTAEETATLVMAPPLEEGLGGAMEEMQPLHEDNFSREKTAELNVQVPE  
EPHTLDQRVIGDTHASEVSQKPNTEKDLDPGPVTTEDTPMDAIDANKQPETAEEPPASVT  
PLENAILLIYSFMFYLTSLVATLPDDVQPGPDFYGLPWKPVFITAFLGIASFIFLWRT  
VLVVKDRVYQVTEQQISEKLKTKIMKENTELVQKLSNYEQKIKESKKHVQETRKQNMILSD  
EAIKYKDKIKTLEKNQEILDDTAKNLRVMLESEREQNVKNQDLISENKKSEKLDKDVISM  
NASEFSEVQIALNEAKLSEKVKSECHRVQEEENARLKKKKEQLQQEIEDWSKLHAELSEQ

IKSFEKSQKDLEVALTHKDDNINALTNCITQLNLECESESEGNKGGNDSDELANGEVG  
GDRNEKMKNQIKQMDVSRTQTATSVVEEDLKLQLKLRAVSTKCNLEDQVKKLEDDRN  
SLQAAKAGLEDECKTLRQKVEILNELYQQKEMALQKKLSQEEYERQEREHRLSAADEKAV  
SAAEEVKTYKRRIEEMEDLQKTERSFKNQIATHEKKAHENWLKARAAERATAEEKREAA  
NLRHKLLELTQKMAMLQEEPVIKPMPPGKPNTPNPPRRGPLSQNGSFGPSPVSGGECSP  
LTVEPPVRPLSATLNRRDMPRSEFGSVDGPLPHPRWSAEASGKPSPSDPGSGTATMMNSS  
SRGSSPTRVLDEGKVNMAKPGPPFPVPLMSTPMGGVPPPIRYGPPQLCGPFGPRPL  
PPFPGPMRPLGLREFAPGVPPGRRDLPLHPRGFLPGHAPFRPLGSLGPREFYIPGTRL  
PPPTHGPPQYPPPAVRDILLPSGSRDEPPASQSTSQDCSQALKQSP

>sp|Q86XE3|MICU3\_HUMAN Calcium uptake protein 3, mitochondrial OS=Homo sapiens GN=MICU3  
PE=2 SV=1

MAALRRLWPPPRVSPPLCAHQPLLGPWGRPAVTTGLPGRPFSSREDEERAVAEAAWRR  
RRRWGELSVAAAAGGLVGLVCYQLYGDPRAGSPATGRPSKSAATEPEDPPRGRGMLPIP  
VAAKETVAIGRTDIEDLDLYATSRERRFRLFASIECEGQLFMTPTYDFILAVTTDEPKVA  
KTWKSLSKQELNQMLAETPPVWKSSKLFRLNKEKGVISYTEYLFLLCILTKPHAGFRIA  
FNMFDTDGNEMVDKKEFLVLQEIFRKKNEKREIKGDEEKRAMLRQLYGYHPTNSVLKT  
DAEELVSRSYWDTLRRNTSQALFSDLAERADDITSLVTDITLLVHFFGKKGKAELNFEDF  
YRFMDNLQTEVLEIEFLSYNGMNTISEEDFAHILLRYTNVENTSVFLENVRYSIPEEK  
ITFDEFRSFFQFLNLEDFAIALNMYNFASRSIGQDEFKRAVYVATGLKFSPLVNTVFK  
IFDVKDDQLSYKEFIGIMKDLRHRGFRGYKTQKYPTFKSCLKKELHSR

>sp|P14174|MIF\_HUMAN Macrophage migration inhibitory factor OS=Homo sapiens GN=MIF PE=1  
SV=4

MPMFIVNTNVPRAVDPDGLSELTTQQLAQATGKPPQYIAHVVPDQLMAFGGSSEPCALC  
SLHSIGKIGGAQNRSSYKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

>sp|Q5JXC2|MIIP\_HUMAN Migration and invasion-inhibitory protein OS=Homo sapiens GN=MIIP  
PE=1 SV=3

MVEAEELAQLRLNLELLRQLWVGQDAVRRSVARAASESSLESSSYNSETPSTPETSST  
SLSTSCPRGRSSVWGPDACRGDLRDVARSGVASLPPAKCQHQESLGRPRPHSAPSLGTS  
SLRDPEPSGRLGDPGPQEAQTPRSILAQQSKLSKPRVTFSEESAVPKRSWRLRPYLGYDW  
IAGSLDTSSSITSQPEAFFSKLQEFRETNKEECICSHPEPQLPGLRESSGSGVEEDHECV  
YCYRVNRRLLFPVPDPTCPRLCRTPRDQQGPGLTAQPAHVRVSIPLSILEPPHRYHIHR  
RKSFDAADTLALPRHCLLGWDIFPPKSEKSSAPRNLDLWSSVSAEAHQKLSGTSSPFHP  
ASPMQMLPPTPTWSVPQVPRPHVPRQKP

>sp|Q7Z6M3|MILR1\_HUMAN Allergen-1 OS=Homo sapiens GN=MILR1 PE=1 SV=2

MWHLNRLLFWSIFSSVTCRAVLDCAMKTNEFPSPCLDSKTKVVMKGQNVSMFCSHKN  
KSLQITYSLFRKTHLGTQDGKGEPAIFNL SITEAHESGPYKCKAQTSCSKYSRDFSFT  
IVDPVTSPVLNIMVIQTETDRHITLHCLSVNGSLPINYTFENHVAISPAISKYDREPAE  
FNLTKKNPGEEEEYRCEAKNRLPNYATYSHPTMPSTGGDSCPFCLKLLLPGLLLLVI  
ILILAFWVLPKYKTRKAMNNVPRDRGDTAMEVGIYANILEKQAKEESVPEVGSRPCVST  
AQDEAKHSQELQYATPVFQEVAPREQEACDSYKSGYVYSELNF

>sp|Q16891|MIC60\_HUMAN MICOS complex subunit MIC60 OS=Homo sapiens GN=IMMT PE=1 SV=1

MLRACQLSGVTAAQSCLCGKFVLRPLRPCRRYSTSGSSGLTTGKIAGAGLLFVGGGIGG  
TILYAKWDSHFRESVEKTIPYSDKLFEMVLGPAAYNVPLPKKSIQSGPLKISSVSEVMKE  
SKQPASQLKQKGDTPASATAPTEAAQII SAAGDTLSVPAPAVQPEESLKTDPHEIGEGK

PTPALSEEASSSSIRERPPEEVAARLAQQEKQEQVKIESLAKSLEDALRQTASVTLQAIA  
AQNAAVQAVNAHSNLIKAMDNSEIAGEKKSAQWRTVEGALKERRKAVDEAADALLKAKE  
ELEKMKSVIENAKKKEVAGAKPHITAAEGKLHNMIVDLDNVVKKVQAAQSEAKVVSQYHE  
LVVQARDDFKRELDSTPEVLPGWKGMSVSDLADKLSTDDLNSLIAHAHRRIDQLNRELA  
EQKATEKQHITLALQKLEEKRAFDSSAVAKALEHHRSEIQAEQDRKIEEVRDAMENEMR  
TQLRRQAAAHTDHLRDVLRVQEQELKSEFEQNLSEKLEQELQFRRLSQEQVDNFTLDIN  
TAYARLRGIEQAVQSHAVAEERKAKHQLWLSVEALKYSMTSSAETPTIPLGSAVEAIK  
ANCSNDEFTQALTAAPPESLTRGVYSEETLRARFYAVQKLARRVAMIDETRNSLYQYFL  
SYLQSLLLFPQPQLPPPELCPEDINTFKLLSYASYCIEHGDLELAAKFVNQLKGESRRV  
AQDWLKEARMTLETKQIVEILTAYASAVGIGTTQVQPE

>sp|Q8IYU8|MICU2\_HUMAN Calcium uptake protein 2, mitochondrial OS=Homo sapiens GN=MICU2  
PE=1 SV=2

MAAAGSCARVAAWGGKLRRGLAVSRQAVRSPGPLAAVAGAALAGAGAAWHHSRVSVAA  
RDGSFTVSAQKNVEHGIIYIGKPSLRKQRFMQFSLEHEGEYYMTPRDFLSVMFEQMER  
KTSVKKLTKKDIEDTLSGIQTAGCGSTFFRDLDGKGLISYTEYLFLLTILTKPHSGFHVA  
FKMLDTDGNEMIEKREFFKLQKIISKQDDLMTVKTNETGYQEAIVKEPEINTTLQMRFFG  
KRGQRKLHYKEFRFMENLQTEIQEMEFLQFSKGLSFMKEDFAEWLLFFTNTENKDIYW  
KNVREKLSAGESISLDEFKSFCHFTTHLEDFAIAMQMFLAHRPVRLAEFKRAVKVATGQ  
ELSNNILDTVFKIFDLGDDECLSHEEFLGVLKNRMHRGLWVPQHQSIEYWKCVKKESIK  
GVKEVWKQAGKGLF

>sp|Q96C03|MID49\_HUMAN Mitochondrial dynamics protein MID49 OS=Homo sapiens GN=MIEF2 PE=1  
SV=1

MAEFSQKRGKRRSDEGLGSMVDFLLANARLVLGVGGAAVLGIATLAVKRFIDRATSPRDE  
DDTKADSWKELSLLKATPHLQPRPPAALSQPVLPAPSSSAPEGPAETDPEVTPQLSSP  
APLCLTLQERLLAFERDRVITIPAAQVALAKQLAGDIALELQAYFRSKFPELPFGAFVPGG  
PLYDGLQAGAADHVRLLVPLVLEPGLWSLVPGVDTVARDPRCWAVRRTQLEFCPRGSSPW  
DRFLVGGYLSSRVLELLRKALAASVNWPAIGSLLGCLIRPSMASEELLLEVQHERLELT  
VAVLVAVPGVDADDRLLLAWPLEGLAGNLWLQDLYPVEAARLRALDDHDAGTRRRLLLLL  
CAVCRGCSALGQLGRGHLTQVVLRLGEDNVDWTEELGERFLQALELLIGSLEQASLPCH  
FNPSVNLFSSLREEEIDDIGYALYSGLQEPEGLL

>sp|Q504T8|MIDN\_HUMAN Midnolin OS=Homo sapiens GN=MIDN PE=2 SV=2

MEPQPGGARSCRRGAPGGACELGPAAEAAPMSLAIHSTTGTRYDLAVPPDETVEGLRKRL  
SQRLKVPKERLALLHKDTRLSSGKLQEFVGVDGSKLTLVPTVEAGLMSQASRPEQSVMQA  
LESLETETQVSDFLSGRSPLTLALRVGDHMMFVQLQLAAQHAPLQHRHVLAAAAAAAARG  
DPSIASPVSSPCRPVSSAARVPPVPTSPSPASPSPITAGSFRSHAATTCPEQMDCSPTA  
SSSASPGASTTSTPGASPAPRSRKP GAVIESFVN HAPGVFSGTFSGTLHPNCQDSSGRPR  
RDIGTILQILNDLLSATRHYQGMPPSLAQLRCHAQCSPPAPDLAPRTTSCEKLTAAPS  
ASLLQGQSQIRMCKPPGDRLRQTENRATRCKVERLQLLLQKRLRRKARRDARGPYHWSP  
SRKAGRSDDSSSGGGSPSEASGLGLDFEDSVWKPEVNPDIKSEFVVA

>sp|Q8TC71|MIEAP\_HUMAN Mitochondria-eating protein OS=Homo sapiens GN=SPATA18 PE=1 SV=1

MAENLKRLVSNETLRTLQEKLDLFWLKEYNTNTCDQNLNHCLELIEQVAKVQGQLFGILTA  
AAQEGGRNDGVETIKSRLLPWLEASFTAASLGKSVDSKVPSLQDTFDRERHKDPSPRDRD  
MQQLDSNLNSTRSQCNQVQDDL VETEK NLEESKNRSAISLLAAEEEINQLKKQLKSLQAAQ  
EDARHRNTDQRSSSENRRSEPWSLEERKREQWNSLQKQADQQDTEAMSDYKKQLRNLKEEI

AVLSAEKSALQGRSSRSRSPSPAPRSRSCSRSRSPSTAVKVRPSPNRSKLSNVARKA  
ALLSRFSDSYSQARLDAQCLLRCDKAETVQRRIIYIATVEAFHVAKMAFRHFKIHVRKS  
LTPSYVGSNDFENAVLDYVICHLDLYDSQSSVNDVIRAMNVNPKISFPPVDFCLLSDFI  
QEICCIAFAMQALEPPLDIAYGADGEVFNDCYRRSYDSDFIAPLVLYHVWPALMENDCV  
IMKGEAVTRRGAFWNSVRSVSRCSRSLSPICPRSQIGLNTMSRSRSPSPIRCGLPRF

>sp|Q8N3F8|MILK1\_HUMAN MICAL-like protein 1 OS=Homo sapiens GN=MICALL1 PE=1 SV=2

MAGPRGALLAWCRRQCEGYRGVEIRDLSSTFRDGLAFCAILHRHRPDLLDFDSLKDNVF  
ENNRLAFEVAEKELGIPALLDPNDMVMSVDPCLSIMTYVSQYYNHFCSPGQAGVSPPRK  
GLAPCSPPSVAPTPVEPEDVAQGEELSSGSLSEQGTGQTPSSTCAACQQHVLVQRYLAD  
GRLYHRHCFRCRCSSTLLPGAYENGPEEGTFVCAEHCARLPGGTRSGTRPGPFSQPKQQ  
HQQQLAEDAKDVPGGPSSSAPAGAEADGPKASPEARPIPTKPRVPGKLQELASPPAGR  
PTPAPRKASESTTPAPPTPRRSSLQQENLVEQAGSSSLVNGRLHELVPKPRGTPKPS  
GTPAPRKDPPWITLVQAEPKKKPAPLPPSSSPGPPSQDSRQVENGTEEVAQPSPTASLE  
SKPYNPFEEEEEDKEEEAPAAPSLATSPALGHPESTPKSLHPWYGITPTSSPKTKKRPAP  
RAPSASPLALHASRLSHSEPPSATPSPALSVELSSESASQTAGAELLEPPAVPKSSSEP  
AVHAPGTPGNPVSLSTNSSLASSGELVEPRVEQMPQASPLAPRTRGSSGPQPAKPCSGA  
TPTPLLLVGDSPVPSPGSSSPQLQVKSSCKENPFNRKPSAASPATKKATKGSKPVRPP  
APGHGFPLIKRKVQADQYIPEEDIHGEMDTIERRLEHHRGVLLLEKLRGGLNEGRED  
MLVDWFKLIHEKHLLVRRESELIYVFKQQLNQADVEYELRCLLNKPEKDWTEEDRAR  
EKVLMQELVTLIEQRNAIINCLDEDRQREEEEDKMLEAMIKKKEFQREAEPEGKKKGKFK  
TMKMLKLLGNKRDAKSKSPRDKS

>sp|P30301|MIP\_HUMAN Lens fiber major intrinsic protein OS=Homo sapiens GN=MIP PE=1 SV=1

MWELRSASFWRIFAIEFFATLFYVFFGLGSSLRWAPGLHVLQVAMAFGLALATLVQSVG  
HISGAHVNPVTF AFLVGSQMSLLRAFCYMAAQLLGAVAGAAVLVSVTPPAVRGNLALNT  
LHPAVSVGQATTVEIFLTLQFVLCIFATYDERRNGQLGSVALAVGFSLALGHLFGMYT  
AGMNPARSFAPAILTGNFTNHVYVWGPIIGGGLGSLLYDFLLFPRLKSISERLSVLKGA  
KPDVSNQGPEVTGEPVELNTQAL

>sp|P03971|MIS\_HUMAN Muellerian-inhibiting factor OS=Homo sapiens GN=AMH PE=1 SV=3

MRDLPLTSLALVLSALGALLGTEALRAEPAVGTSGLIFREDLDWPPGSPQEPLCLVALG  
GDSNGSSSPLRVVGALSAYEQAF LGAVQRRWGPRLATFGVCNTGDRQAALPSLRRGA  
WLRDPGGQRLVVLHLEEVTPSLRFQEPPPGGAGPELALLVLYPGPGEVTVTRAG  
LPGAQSLCPSRDTRYLVLAVD RPAGAWRGSLALTLQPRGEDSRLSTARLQALLFGDDHR  
CFTRMTPALLLLPRSEPAPLPAHQQLDTPVPFPPRPSAELEESPPSADPFLETLTRLVRA  
LRVPPARASAPRLALDPDALAGFPQGLVNLSDPAALERLLDGEEPLLLLRPTAATTGDP  
APLHDPTSAPWATALARRVAAELQAAAAELRSLPGLPPATAPLLARLLALCPGGPGGLGD  
PLRALLLLKALQGLRVEWRGRDPRGPGRAGRSAGATAADGPCALRELSVDLRAERSVLIP  
ETYQANNCQGVCGWPQSDRNPRYGNHVLLKMQVRGAALARPPCCVPTAYAGKLLISLS  
EERISAHVPMNVATECGCR

>sp|P31152|MKO4\_HUMAN Mitogen-activated protein kinase 4 OS=Homo sapiens GN=MAPK4 PE=1 SV=2

MAEKGDCIASVYGYDLGGRFVDFQPLGFGVNLVLSAVDSRACRKVAVKKIALSDARSMK  
HALREIKIIRRLDHDNIVKVEVLGPKGTDLQGELFKFSVAYIVQEYMETDLARLLEQGT  
LAEEHAKLFMYQLLRGLKYIHSANVLHRDLKPANIFISTEDLVLKIGDFGLARIVDQHYS  
HKGYLESEGLVTKWYRSPRLLSPNNYTKAIDMWAAGCILAEMLTGRMLFAGAHELEQMQL

ILETIPVIREEDKDELLRVMPFSVSSTWEVKRPLRKLLPEVNSEIDFLEKILTFNPMDR  
LTAEMGLQHPYMSPYSCPEDEPTSQHPFRIEDEIDDIVLMAANQSQLSNWDTCSSRYPVS  
LSSDLEWRPDRCQDASEVQRDPGRAGSAPLAEDVQVDPKDSHSSSERFLEQSHSSMERAF  
EADYGRSCDYKVGSPSYLDKLLWRDNKPHHYSEPKLILDLSHWKQAAGAPPTATGLADTG  
AREDEPASLFLEIAQWVKSTQGGPEHASPPADDPERRLSASPPGRPAPVDGGASPQFDLD  
VFISRALKLCTKPEDLPDNKLGDLNGACIPEHPGDLVQTEAFSKERW

>sp|H3BPM6|MKROS\_HUMAN MKRN2 opposite strand protein OS=Homo sapiens GN=MKRN2OS PE=4 SV=1  
MHCAEAGKALIKFNHCEKYIYSFSVPQCCPLCQQDLGSRKLEDAPVSIANPFTNGHQEKC  
SFLLRPTQGTFLREYDGRSDLHVGITNTNGVVYNYSAHGVQRDGEWEESISIPLLQPNM  
YGMMEQWDKYLEDFSTSGAWLPHRYEDNHHNCYSYALTFINCVLMAEGRQQLDKGEFTEK  
YVVPRTLASKFITLYRAIREHGFYVTDPCQQQAQPPEGGLC

>sp|Q15049|MLC1\_HUMAN Membrane protein MLC1 OS=Homo sapiens GN=MLC1 PE=1 SV=5  
MTQEPFREELAYDRMPTLERGRQDPASYAPDAKPSDLQLSKRLPPCFSHKTWVFSVLMGS  
CLLVTSGFSLYLGNVFAEMDYLRCAAGSCIPSAIVSFTVSRRNANVIPNFQILFVSTFA  
VTTTCLIWFGCKLVLNPSAININFNLILLLLLELLMAATVIIAARSSEEDCKKKKGMSD  
SANILDEVPPARVLKSYSVVEVIAGISAVLGGIIALNVDDSVSGPHLSVTFFWILVACF  
PSAIASHVAAECPKCLVEVLIAISSLTSPLLFTASGYLSFSIMRIVEMFKDYPPAIKPS  
YDVLLLLLLLLVLLQAGLNTGTATQCVRFKVSARLQGASWDTQNGPQERLAGEVARSPK  
EFDKEKAWRAVVVQMAQ

>sp|Q15773|MLF2\_HUMAN Myeloid leukemia factor 2 OS=Homo sapiens GN=MLF2 PE=1 SV=1  
MFRFMRDVEPEDPMLMDPFAIHRQHMSRMLSGFGYSPFLSITDGNMPGTRPASRRMQQ  
AGAVSPFGMLGMSGGFMDMFGMMNDMIGNMEHMTAGGNCQTFSSSTVISYSNTGDGAPKV  
YQETSEMSAPGGIRETRRTVRDSDSGLEQMSIGHHIRDRAHILQRSRNHRTGDQEERQD  
YINLDESEAAAFDDEWRRETSRFRQQRPLEFRRLLESSGAGGRRAEGPPRLAIQGPEDSPS  
RQSRRYDW

>sp|P39900|MMP12\_HUMAN Macrophage metalloelastase OS=Homo sapiens GN=MMP12 PE=1 SV=1  
MKFLLILLQATASGALPLNSSTSLEKNNVLFGERYLEKFYGLEINKLPVTMKYSGNLM  
KEKIQEMQHFLGLKVTGQLDTSTLEMMHAPRCGVPDVHHFREMPPGVPWRKHYYTYRINN  
YTPDMNREDVDYAIRKAFQVWSNVNTPFKFSKINTGMADILVVFARGAHGDFHAFDGKGGI  
LAHAFPGSGIGGDAHFEDEFWTHSGGTNLFLTAVHEIGHSLGLGHSSDPKAVMFPTY  
KYVDINTFRLSADDIRGIQSLYGPKEHQRLPNPDNSEPALCDPNLSFDAVTTVGNKIFF  
FKDRFFWLKVSRPKTSVNLISLWPTLPSGIEAAYEIEARNQVFLFKDDKYWLISNLRP  
EPNYPKSIHSFGFPNFVKKIDAAVFNPRFYRTYFFVDNQYWRYDERRQMMDPGYPKLITK  
NFQGIGPKIDAVFYSKNKKYFFQGSNQFEYDFLLQRITKTLKSNSWFGC

>sp|P45452|MMP13\_HUMAN Collagenase 3 OS=Homo sapiens GN=MMP13 PE=1 SV=1  
MHPGVLA AFLFLSWTHCRALPLPSGGDEDDLSEEDLQFAERYLRSYYHPTNLAGILKENA  
ASSMTERLREMQSFFGLEVTGKLDDNTLDVMKKPRCGVPDVG EYNVFPRTLKWSKMNLTY  
RIVNYTPDMTHSEVEKAFKAFKVWSDVTPLNFTRLHDGIADIMISFGIKEHGDFYPFDG  
PSGLLAHAFPPGPNYGGDAHFDDDETWTSSSKGYNLFLVAAHEFGHSLGLDHSKDPGALM  
FPIYTYTGKSHFMLPDDDVQGIQSLYGPGEDEPNPKHPKTPDKCDPSLSLDAITSLRGET  
MIFKDRFFWRLHPQQVDAELFLTKSFPELPNRIDAAYEHPSHDLIFIFRGRKFWALNGY  
DILEGYPKKISELGLPKEVKKISA AVHFEDTGKTLFSGNQVWRYDDTNHIMDKDYPRLI  
EEDFPGIGDKVDAYEKNYIYFFNGPIQFEYSIWSNRIVRVMPANSILWC

>sp|Q9NPA2|MMP25\_HUMAN Matrix metalloproteinase-25 OS=Homo sapiens GN=MMP25 PE=1 SV=1

MRLRLRLALLLLLLAPPARAPKPSAQDVSLGVDWLTRYGYLPPHPAQALQSPEKLRD  
AIKVMQRFAGLPETGRMDPGTVATMRKPRCSLPDVLGVAGLVRRRRRYALSGSVWKKRTL  
TWRVRSFPQSSQLSQETVRVLSYALMAWGMESGLTFHEVDSPQGQEPDILIDFARAFHQ  
DSYPFDGLGGTLAHAFPPGEHPISGDTHFDDEETWTFGSKDGEGTDLFAVAVHEFGHALG  
LGHSSAPNSIMRPFYQGPVGDPDKYRLSQDDRDGLQQLYGKAPQTPYDKPTRKPLAPPPQ  
PPASPTHSPSFPIPRCEGNFDAIANIRGETFFFKGPWFWRQLQPSGQLVSPRPARLHRFW  
EGLPAQVRVVQAAYARHRDGRILLFSGPQFWVFQDRQLEGGARPLTELGLPPGEEVDAVF  
SWPQNGKTYLVRGRQYWRYDEAAARPDPGYPRDLSLWEGAPPSPDDVTVSNAGDTYFFKG  
AHYWRFPKNSIKTEPDAPQPMGPNWLDPCAPSSGPRAPRPPKATPVSETCDCQCELNQAA  
GRWPAPIPLLLLPLLVGGVASR

>sp|Q86TA1|MOB3B\_HUMAN MOB kinase activator 3B OS=Homo sapiens GN=MOB3B PE=1 SV=2

MSIALKQVFNKDKTRFRPKRFEPGTQRFELHKRAQASLNSGVDLKAAVQLPSGEDQNDWV  
AVHVVDFFNRINLIYGTICEFCTERTCPVMSGGPKYEYRWQDDLKYKKPTALPAPQYMN  
LMDWIEVQINNEIFPTCVGVPFPKNFLQICKKILCRLFRVFVHVYIHHFDRVIVMGAEA  
HVNTCYKHFFYFVTEMNLIDRKELEPLKEMTSRMCH

>sp|Q9NWA0|MED9\_HUMAN Mediator of RNA polymerase II transcription subunit 9 OS=Homo sapiens GN=MED9 PE=1 SV=1

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPPQPPVPAPQPQQSPAPRPQSPARAREE  
ENYSFLPLVHNI IKCMDKDSPEVHQDLNALKSKFQEMRKLISTMPGIHLSPEQQQQQLQS  
LREQVRTKNELLQKYKSLCMFEIPKE

>sp|Q5VYS4|MEDAG\_HUMAN Mesenteric estrogen-dependent adipogenesis protein OS=Homo sapiens GN=MEDAG PE=2 SV=1

MAGAACEPVARPSLTSISSGELRSLWTCDELALLPLAQLLRLQPGAFQLSGDQLVVARP  
GEPAAARGGFNVFGDGLVRLDGQLYRLSSYIKRYVELTNYCDYKDYRETILSKPMLFFIN  
VQTKKDTSKERTYAFLVNTRHPKIRRQIEQGMDMVISSVIGESYRLQFDFQEAVKNFFPP  
GNEVVNGENLSFAYEFKADALDFDFYWFGLSNSVVKVNGKVLNLSSTSPEKKETIKLFLE  
KMSEPLIRRSSFSRDKFSVTSRGSIDDFVNCNLSPRSSLTEPLLAELPFPSVLESEETPN  
QFI

>sp|Q06413|MEF2C\_HUMAN Myocyte-specific enhancer factor 2C OS=Homo sapiens GN=MEF2C PE=1 SV=1

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKLQYAST  
DMDKVLKYTEYNEPHESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESDKYRKI  
NEDIDLMSRQLCAVPPPNFEMPVSI PVSSHNSLVYSNPVSSLGNPNLLPLAHPQLQRN  
SMSPGVTHRPPSAGNTGGLMGDLTSGAGTSAGNGYGNPRNSPGLLVSPGNLNKNMQAKS  
PPPMNLGMNRRKPDRLVLI PPGSKNTMPVSEDVDLLLQNRINNSQSAQSLATPVVSVAT  
PTLPQGGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPP  
SALSQLGACTSTHLSQSSNLSLPSTQSLNIKSEPVSPPRDRTTTTPSRYPQHTRHEAGRSP  
VDSLSSCSSSYDGSREDHRNEFHSPIGLTRPSPDERESPSVKRMRLSEGWAT

>sp|A8MW99|MEI4L\_HUMAN Meiosis-specific protein MEI4-like OS=Homo sapiens GN=MEI4 PE=3 SV=2

MDVQKWYLRTSKLALALAIIRSKPADKSSREYTEHLAMLLSEEQSKWRSKVEILEAEVMQ  
LRQKLLVSRLCSGFSKGYVSSQLEAQEPKSSESTLTSMEDSGCDLSNEQRTESDLSQH  
FVESCTPTHFPPLPLVKRCAILQNPLSSHMQFLQYLLELKNLTESGNLKRDLTHFEKDS  
STVSDSVFQLLDGLITFYRNPKL PFSRFWTEAVGTLASLISDYNLSSHILKKCSKKLEEF

EKTLHAILGNNHINQFVQHYVSQSLVTLGNCSLLRKSIIISLLLSEVNGFADDLGAINQ  
EQASYDVSRYENIFYLFWVLEQLLQKETEEGNTSSIGHDDQEIKKFLQKHDETIFQLSDA  
FPLFTFYLRVRGILLSSAQIETLRK

>sp|Q8N635|MEIOB\_HUMAN Meiosis-specific with OB domain-containing protein OS=Homo sapiens  
GN=MEIOB PE=2 SV=3

MANSFAARIFTTSLDLQTNMANLKVIGIVIGKTDVKGFPDRKNIGSERYTFSFTIRDSPA  
HFVNAASWGNEDIKSLSDSFRVGDVCIENPLIQRKEIEREEKFSPATPSNCKLLSEN  
HSTVKVCSSYEVDTKLLSLIHLVPKESHDYYSLGDIVANGHSLNGRIINVLAAVKSVGEP  
KYFTTSDRRKQGRCEVRLYDETESSFAMTCWDNESILLAQSWMPRETIVIFASDVRINFDK  
FRNCMTATVISKTIITNPDIPEANILLNFIRENKETNVLDDEIDSYFKESINLSTIVDV  
YTVEQLKGKALKNEGKADPSYGILYAYISTLNIDDETTKVVRNRCSSCGYIVNEASNCT  
TCNKNSLDFKSVFLSFHVLIDLTHTGLHSCSLTGSAEETLGCTFVLSHRARSGLKIS  
VLSCKLADPTEASRNLSGQKHV

>sp|Q9Y316|MEMO1\_HUMAN Protein MEMO1 OS=Homo sapiens GN=MEMO1 PE=1 SV=1

MSNRVVCREASHAGSWYTASGPQLNAQLEGWLSQVQSTKRPARAIIAPHAGYTYCGSCAA  
HAYKQVDPISITRRIFILGPSHHVPLSRCALSSVDIYRTPLYDLRIDQKIYGELWKTGMFE  
RMSLQTDDEHESIEMHLPYTAKAMESHKDEFTIIPVLVGALSESKEQEFGLFSKYLADP  
SNLFFVSSDFCHWGQRFYSYDESQGEIYRSIEHLDMGMSIIIEQLDPVSFSNYLKKYH  
NTICGRHPIGVLLNAITELQKNGMNMSFSLNYAQSSQCRNWQDSSVSYAAGALTVH

>sp|O95772|MENTO\_HUMAN MLN64 N-terminal domain homolog OS=Homo sapiens GN=STARD3NL PE=1  
SV=1

MNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESYEGREKKGISDVRRTFCLFVT  
FDLLFVTLLWIIELNVNGGIENTLEKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCRL  
RHWWAIALTTAVTSAFLLAKVILSKLFSQGAFGYVLPPIISFILAWIETWFLDFKVLQPQA  
EEENRLLIVQDASERAALIPGGLSDGQFYSPPESEAGSEEAEEKQDSEKPLLEL

>sp|A8MUP2|MET12\_HUMAN Methyltransferase-like protein 12, mitochondrial OS=Homo sapiens  
GN=METTL12 PE=2 SV=1

MAALRRMLHLPSLMMGTCRPFAGSLADSCADRCLWDRLHAQPRLGTVPTFDWFFGYDEV  
QGLLLPLLQEAQAASPLRVLDVGGTSSLCTGLYTKSPHPVDVLGVDFSPVAVAHMNSLL  
EGGPGQTPLCPGHPASSLHFMHADAQNLGAVASSGSFQLLLDKGTWDAVARGGLPRAYQL  
LSECLRVLPQGTLIQFSDPEDVRLPCLEQGSYGWTVTVQELGPFRTITYFAYLIQGS

>sp|Q9BUU2|MET22\_HUMAN Methyltransferase-like protein 22 OS=Homo sapiens GN=METTL22 PE=1  
SV=2

MVQLAPAAAMDEVTFRSDTVLSDVHLYTPNHRHLMVRLNSVGQPVFLSQFKLLWSQDSWT  
DSGAKGGSHRDVHTKEPPSAETGSTGSPPGSGHNEGFSLQAGTDTTGQEVAAQLDEDG  
DLDVRRPRAASDSNPAGPLRDKVHPMILAQEEDDVLGEEAQGSPHDIIRIEHTMATPLE  
DVGKQVWRGALLADYILFRQDLFRGCTALELGAGTGLASIIAATMARTVYCTDVGADLL  
SMCQRNIALNSHLAATGGGIVRVKELDWLKDLDCTDPKVPFWSQEEISDLYDHTTILFA  
AEVFYDDDLTDAVFKLSRLAHLKNACTAIIISVEKRLNFTLRHLDVTCEAYDHFRLSLH  
ALEQLADGKLRVVEPVEASFPQLLVYERLQQLELWKIIAEPVT

>sp|Q86XA0|MET23\_HUMAN Methyltransferase-like protein 23 OS=Homo sapiens GN=METTL23 PE=1  
SV=3

MYVWPCAVVLAQYLWFHRRSLPGKAILEIGAGVSLPGILAAKCGAEVILSDSSELPHCLE  
VCRQSCQMNNLPHLQVVGLTWGHISWDLALPPQDIILASDVFFEPEDFEDILATIIYFLM



HKNPKVQLWSTYQVRSADWSLEALLYKWDKCVHIPLESFDADKEDIAESTLPGRHTVEM  
LVISFAKDSL

>sp|Q5JXM2|MET24\_HUMAN Methyltransferase-like protein 24 OS=Homo sapiens GN=METTL24 PE=2  
SV=1

MARERPPGRGCGVLRRLGAVLLFGLRLCAELRRAGPGSPTRSAPPGPAWRPPGPHLPP  
APGQPRGASRRQVTYVRSRRAPPGGGSGTPEPGCCAPRGRPRRKGPWRHIDLQPWAGS  
AQLDDEEAWRFLRYISTTQIACNHMNTDSLATDSSPTHKPWSVCLDDRFNLAHQIRNKQC  
RLYSLGLGSDDTHEFVSMANNGCEVHRFDPVSKSAHILESQHLWYHRLSIDWRDPHPAVA  
AQKPHSNTRKLGSI LNEFGHHKIDVLKADLESAEWKVLENLILEDVLEQIGQLIFEIHLH  
WPGFEVSGSDSSVVRFWYSLLEKELEQKDFRLFHSYKDL SKPQLFLKKDIFNASSCYTLSW  
VNTRWK

>sp|Q6P1Q9|MET2B\_HUMAN Methyltransferase-like protein 2B OS=Homo sapiens GN=METTL2B PE=1  
SV=3

MAGSYPEGAPAILADKRQQFGSRFLSDPARVFHHNAWDNVEWSEEQAAAAERKVQENSIQ  
RVCQEKQVDYEINAHKYWNDFYKIHENGFFKDRHWLFTFPELAPSQNQNHLKDWFLNENK  
SEVCECRNEDGPGIMEEQHKCSSKSLEHKTQTPPEENVTKISDLEICADEFPGSSA  
TYRILEVGCVGNTVFPILQTNNDPGLFVYCCDFSSTAIELVQTNSEYDPSRCFAFVHDL  
CDEEKSYVPKGSLDIIILIFVLSAVVPDKMQKAINRLSRLKPGGMVLLRDYGRYDMAQ  
LRFKKGQCLSGNFYVRGDGTRVYFFTQEELDTLFTTAGLEKVQNLVDRRLQVNRGKQLTM  
YRVWIQCKYCKPLLSSTS

>sp|P31153|METK2\_HUMAN S-adenosylmethionine synthase isoform type-2 OS=Homo sapiens  
GN=MAT2A PE=1 SV=1

MNGQLNGFHEAFIEEGTFLFTSESVGEGHPDKICDQISDAVLDAHLQQDPDAKVACETVA  
KTGMILLAGEITSRAAVDYQKVREAVKHIGYDDSSKGFQDYKTCNVLVALEQQSPDIAQG  
VHLDRNEEDIGAGDQGLMFGYATDETEECMPLTIVLAHKLNAKLAELRRNGTLPWLRPDS  
KTQVTVQYMQDRGAVLP IRVHTIVISVQHDEEVCLDEMARDALKEKVIKAVVPAKYLDEDT  
IYHLQPSGRFVIGGPQGDAGLTGRKIIVDTYGGWGAHGGGAFSGKDYTKVDRSAAYAARW  
VAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVI  
VRDLDLKKPIYQRTAAYGHFGRDSFPWEVPKKLKY

>sp|P08581|MET\_HUMAN Hepatocyte growth factor receptor OS=Homo sapiens GN=MET PE=1 SV=4

MKAPAVLAPGILVLLFTLVQRSNGECKEALAKSEMNVNMKYQLPNFTAETPIQNVILHEH  
HIFLGATNYIYVLNEEDLQKVAEYKTGPVLEHPDCFCQDCSSKANLSGGVWKDNINMAL  
VVDYYDDQLISCGSVNRGTCQRHVFPNHTADIQSEVHCIFSPQIEEPSQCPDCVVSAL  
GAKVLSVVKDRFINFFVGNTINSSYFPDHPLHSISVRRLKETKDGFMFLTDQSYIDVLPE  
FRDSYPIKYVHAFESNNFIYFLTVQRETLD AQT FHTRIIRFCSINSLHSYMEMPLECIL  
TEKRKKRSTKKEVFNILQAAYVSKPGAQLARQIGASLND DILFGVFAQSKPDSAEPMDRS  
AMCAFP IKYVNDFFNKIVNKNVRCLQHFYGNHEHC FNRTL LRNSSGCEARRDEYRTEF  
TTALQRVDLFMGQFSEVLLTSISTFIKGLTIANLGTSEGRFMQVVVSRSGPSTPHVNFL  
LD SHPVSP EIVVEHTLNQNGYTLVITGKKITKIPLNGLGCRHFQSCSQCLSAPPFVQCGW  
CHDKCVRSEEC LSGTWTQQICLPAIYKVPNSAPLEGGTRLTICGWDFGFRNNKFDLKK  
TRVLLGNESCTLT LSESTMNTLKCTVGPAMNKHFNMSIIISNGHGTQYSTFSYVDPVIT  
SISPKYGP MAGGTLLTLTGNYLNSGNSRHISIGGKTCTLKSVSNSILECYTPAQTISTEF  
AVKLIKIDLANRETSIFS YREDPIVY EIHPTKSFISGGSTITGVGKNLNSVSVPRMVINVH  
EAGRNFTVACQHRNSEIICCTTPSLQQLNLQLPLKTKAFFMLDGILSKYFDLIYVHNPV

FKPFEKPVMI SMGNENVLEIKGNDIDPEAVKGEVLKVG NKSCENIHLHSEAVLCTVPNDL  
LKLNSELNIEWKQAISS TVLGKIVIQPDQNFTGLIAGVVSISTALLLLGFFLWLKKRKQ  
IKDLGSELVRYDARVHTPHLDRLVSARSVSPTTEMVSNESVDYRATFPEDQFPNSSQNGS  
CRQVQYPLTDMSPILTS GSDSISSPLLQNTVHIDL SALNP ELVQAVQHVVIGPSSLIVHF  
NEVIGRGHFGCVYHGTLLDNDGKKIHC AVKSLNRITDIGEVSQFLTEGIIMKDFSHPNVL  
SLLGICLRSEGSPLVVL PYMKHGD LRNFIRNETHNPTVKDLIGFGLQVAKGMKY LASKKF  
VHRDLAARNCMLDEKFTVKVADFG LARDMYDKEYYSVHNKTGAKLPVKWMALES LQTQKF  
TTKSDVWSFGVLLWELMTRGAPPYPDVNTFDITVYLLQGRRLQPEYCPDPLYEVMLKCW  
HPKAEMRPSFSELVSRISAIFSTFIGEHYVHV NATYVNVKCVAPYPSLLSSEDNADDEV D  
TRPASFWETS

>sp|Q96MC6|MF14A\_HUMAN Hippocampus abundant transcript 1 protein OS=Homo sapiens  
GN=MFSD14A PE=2 SV=2

MTQGKKKKRAANRSIMLAKKII IKDGGTPQGIGSPSVYHAVIVIFLEFFAWGLLTAPT LV  
VLHETFPKHTFLMNGLIQG VKGLLSFLSAPLIGALSDVWGRKSFLLLTVFFTCAPIPLMK  
ISPWWYFAVISVSGVF AVTFSVVFAYVADITQEHERSMAYGLVSATFAASLVTSPAIGAY  
LGRVYGDSL VVVLATAIALLDICFILVAVPESLPEKMRPASWGAPISWEQADPFASLKKV  
GQDSIVLLICITVFLSYLPEAGQYSSFFLYLRQIMKFSPE SVAAFIAVLGILSIIAQ TIV  
LSLLMRSIGNKNTILLGLGFQILQLAWYGF GSEPWMMWAAGAVAAMSSITFPAVSALVSR  
TADADQQGVVQMITGIRGLCNGLPALYGFIFYIFHVELKELPITGTD LGTNTSPQH HF  
EQNSIIPGPPFLFGACSVLLALLVALFIPEHTNLSLRSSSWRKHCGSHSHPHNTQAPGEA  
KEPLLQDTNV

>sp|P55082|MFAP3\_HUMAN Microfibril-associated glycoprotein 3 OS=Homo sapiens GN=MFAP3  
PE=2 SV=1

MKLHCCLFTLVASII VPAAFVLEDVDFDQMV SLEANRSSYNASFPSSFELSASSHSDDDV  
IIAKEGTSVSIECLLTASHYEDVHWHNSKGQQLDGRSRGGKWLVS DNFLNITNVAFDDR G  
LYTCFVTSPIRASYSVTLRVIFTS GDM SVYVMIVCLIAFTITLILNVTRLCMMSSHLRKT  
EKAIN EFFRTEGA EKLQKAFEIAKRIP IITSAKTLELAKVTQFKTMEFARYIEELARSVP  
LPPLILNCRAFVEEMFEAVRVDDPDDLGERIKERPALNAQGGIYVINPEMGRSNSPGGDS  
DDGSLNEQGQEIAVQVSVHLQSETKSIDTESQGSSHFSPPDDIGSAESNCNYKDGAYENC  
QL

>sp|Q9UQ53|MGT4B\_HUMAN Alpha-1,3-mannosyl-glycoprotein 4-beta-N-  
acetylglucosaminyltransferase B OS=Homo sapiens GN=MGAT4B PE=1 SV=1

MRLRNGTFLTLLFLCLCAFLSLSWYAALSGQKGDVVDVYQREFLALRDLHAAEQESLKR  
SKELNLVLDEIKRAVSERQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLPTVFHHL P  
HLLAKESSLQPAVRVGQGRTGVSVMGIPSVRREVH SYLTD TLHSLISELSPQEKEDSVI  
VVLIAETDSQYTS AVTENIKALFPTEIHSGLLEVISPSPHFYPDFSRLRESFGDPKERV R  
WRTKQNLDYCFLMMYAQSKGIYVQLEDDIVAKPNYLS TMKNFALQQPSEDWMILEFSQL  
GFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIR  
FKPSLFQHVGTSSLAGKIQLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYL  
REDFFWAFTPAAGDFIRFRFFQPLRLERFFFRSGNIEHPEDKLFNTSVEVLPFDNPQSDK  
EALQEGRTATLRYPRSPDGYLQIGSFYKGVAEGEVDPAFGPLEALRLSIQTDSPVWVILS  
EIFLKKAD

>sp|Q9UBM8|MGT4C\_HUMAN Alpha-1,3-mannosyl-glycoprotein 4-beta-N-  
acetylglucosaminyltransferase C OS=Homo sapiens GN=MGAT4C PE=2 SV=2

MFKFHQMKHIFEILDKMRCLRKSTVSFLGVLVIFLLFMNLYIEDSVLEGDKQLIRETS  
THQLNSERYVHTFKDLSNFSGAINVTYRYLAATPLQRKRYLTIGLSSVKKKGNYLLETI  
KSIFEQSSYEELKEISVVVHLADFNSWRDAMVQDITQKFAHHIIAGRLMVIHAPEEYYP  
ILDGLKRNYPEDRVKFRSKQNVDAFLLNFCANTS DYVVMLEDDVRC SKNFLTAIKKV  
IASLEGTYVWTFLEFSKLG YIGKLYHSHDL PRLAHFLLMFYQEMPCDWLLTHFRGLLAQKN  
VIRFKPSLFQHMGYSSYKGTENKLDKDDFEEESFDIPDNPPASLYTNMNVFENYEASKA  
YSSVDEYFWGKPPSTGDV FVIVFENPIIIKKIKVNTGTEDRQNDILHHGALDVGENVMPS  
KQRRQCSTYLRLGEFKNGNFEMSGVNQKIPFDIHC MRIYVTKTQKEWLIIRSISIWTS

>sp|A9UHW6|MI4GD\_HUMAN MIF4G domain-containing protein OS=Homo sapiens GN=MIF4GD PE=1 SV=1

MGEPSREEYKIQSFAETQQLKTALKDPGAVDLEKVANVIVDHS LQDCVFSKEAGRMCY  
AIIQAESKQAGQSVFRRGLLNRLQQEYQAREQLRARSLQGWVCYVTFICNIFDYLRVNM  
PMMALVNPVYDCLFRLAQPDLSKEEEVDCLVLQLHRVGEQLEKMNGQRMDEL FVLIRDG  
FLLPTGLSSLAQ LLLLEII EFRAAGWKTPAAHKY YYYSEVSD

>sp|Q5TIA1|MEI1\_HUMAN Meiosis inhibitor protein 1 OS=Homo sapiens GN=MEI1 PE=2 SV=2

MAVRQAATAGTPGPRREEEAALLFERAHYRHDPRWLLPVT PRLCLACALELLPDPGVS LV  
RKKHMLSCFQDALVRHTSLVTQLVSQDQ RVCIH FISVLFGLLCSMEDGSVTDLCIEVLIQ  
ITTQLKLEQTIRCLLDECHKELCNMP SMRGLATLTLLGKLVDAIPALADEL VMEHG NLM  
EHLLRGLVYPSEGIQASVCYLYGKLYSSPVA AEMLSGHFREKLFPLFLSILDGAQTKELQ  
INCLG LLRQLLKYDLFVSMIMNQDGLGESAKNIEGSSGNTSLPLVLK LLLSRDETLQVA  
SAHCITAVLVHSPAKHASAFIHADIPEFLFEHLSSSSEVLVWSSCNCLTLLVEEPLFFSK  
CHTVYGIEAVVRSLQGSLKMNNIELHKQGLLLFAEILTRQPEEIKLFTSSAMCRDAGRAL  
QEAVSSPVLEVA AEALKATSAFLRKDHQSTPPVQY GELQALLEAMLNRC AEFSQTLLSRR  
PLGHASSRDSEKAILQRGKFLLSTLEGFRSACRLAIEFQSEPSAQENPFTAPS AKKEDTL  
EAFSEFLLSACDSLCPMVMR HLEQTTHPALMEVFLSILHNLFVIVPHMKEKFSKCLASS  
SFIRLTLELKARFCSGLSHSALNQVCSNFLYMCNLLSA PEKTGPPSKEELS AVSELLQ  
HGLPQISSRSPESLAFLSDRQYMEGAARQRQYCILLFYLAYIHEDRFVSEAE LFEAVQS  
FLLSLQDQGERPPLVVFKASIYLLAICQDKDNTLRET MVSATRKFL EGIPDLQLVYTHHP  
LLLRFLLYPELMSRYGHRVLELWFFWEESSYEELDDVTSAGQPALPASLVVLFQLLRSI  
PSILLILLDLIYSSPVDTAHKVLISLRTFLRRNEDIQVGGLIRGHFLLILQRL LVEHGAS  
PSGASGNLPLLLSLLSMQLRNVSEQELDSVAMKLLHQVSKLCGKCSPTDVIDILQPSFNF  
LYWSLHQTPSSQKRAAAVLLSSTGLMELLEKMLALTAKADSPRTALLCSAWLLTASF S  
AQQHKGSLQVHQTLSEMDQVLKALSFPKKAALLSAAILCFLRTALRQSFSSALVALVP  
SGAQPLPATKDTVLA PLRMSQVRSLVIGLQNL LVQKDPLLSQACVGCLEALLDYLDARSP  
DIALHVASQPWNRFLFTLLDAGENSFLRPEILRLMTLFMRYRSSSVLSHEEVGDVLQGV  
ALADLSTLSNTTLQALHGFFQQLQSMGHLADHSMAQTLQASLEGLPPSTSSGQPPLQDML  
CLGGVAVSLSHIRN

>sp|000255|MEN1\_HUMAN Menin OS=Homo sapiens GN=MEN1 PE=1 SV=4

MGLKAAQKTLFPLRSID DVVRLFAAELGREEPDLVLLSLVLGFVEHFLAVNRV IPTNVPE  
LTFQPSAPDPPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKK  
VSDVIWNSLSRSYFKDRAHIQSLFSFITGWS PVGTKLDSSGVAFAVVGACQALGLRDVHL  
ALSEDHAWVVFGPNGEQTAEVTHWGKGNEDRRGQTVNAGVAERSWLYLKGSYMRCDRKME  
VAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMALGNLADLEELEPTPGR  
PDPLTLYHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVR EALQAWADTATVIQDYN YCR

EDEE IYKEFFE VANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECFAHLLR  
FYDGICKWEEGSPTPVLVHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAAEAEPPWGEEA  
REGRRRGRPRRESKPEEPPPPKPPALDKGLGTGQGA VSGPPRPPGT VAGTARGPEGGSTA  
QVPAPTASPPPEGPVLTFQSEKMKGMKELLVATKINSSAIKQLQTAQSQVQMKKQKVSTP  
SDYTLSFLKRQRKGL

>sp|P35240|MERL\_HUMAN Merlin OS=Homo sapiens GN=NF2 PE=1 SV=1  
MAGAIASRMSSFSLKRKPKTFTVRIVTMDAEMEFNCMKWKGD LFDLVCRTLGLRETW  
FFGLQYTIKDTVAWLKMDKKVLDHDSKEEPVTFHFLAKFY PENAEELVQEITQHLFFL  
QVKKQILDEKIYCPPEASVLLASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMT  
PEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIRNKKGTELLLGVDALG  
LHIYDPENRLTPKISFPWNEIRNISYS DKEFTIKPLDKKIDVFKFNSSKLRVNKLILQLC  
IGNHDLFMRRRKADSLEVQMQKAQAREEKARKQMERQRLAREKQMR EEAERTRDELERRL  
LQMKEEATMANEALMRSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTE  
EEKRLMEQKVLEAEVLALKMAEESERRAKEADQLKQDLQEAREAEERRAKQKLEIATKPT  
YPPMNP IAPLPDIPSFNLIGDSL SFDKDTDMKRLSMEIEKEKVEYMEKSKHLQEQLN  
ELKTEIEALKKERETALDILHNENSDRGSSKHNTIKKLTLQSAKSRVAFFEEL

>sp|QOVG99|MESP2\_HUMAN Mesoderm posterior protein 2 OS=Homo sapiens GN=MESP2 PE=1 SV=2  
MAQSPPPQSLLGHDHWIFAQGWGAGHW DSTSPASSDSSGSCPCDGARGLPQPQPPSCS  
SRAAEAAATTPRRARTGPAGGQRQSASEREKLRMRTLARALHELRRFLPPSLAPAGQSLT  
KIETLRLAIRYIGHLSAVLGLSEESLQCRRRQRGDAGSPWGCPLCPDRGPAAEQTAEGQ  
GGGGGGGGGGGGGGGGGGGGGGGRRPGLVSAVLA EASWGSPSACPGAQAAPERLGRGV  
HDTDPWATPPYCPKIQSPPYSSQGTTSASLWTPPGCPWTQSSPEPRNPPVPWTAAPAT  
LELAAVYQGLSVSPEPCLSLGAPSL LPHPSCQRLQPQTPGRCWSHSAE VVPNSDQGPGA  
AFQLSEASPPQSSGLRFSGCP ELWQEDLEGARLGIFY

>sp|Q8N6Q8|MET25\_HUMAN Methyltransferase-like protein 25 OS=Homo sapiens GN=METTL25 PE=2  
SV=2  
MAASCPLPVT PDLPTLRAKLQGLLQFLRDALSISNAHTVDFYTESVWEELVDLP PETVLA  
ALRKSASETEALPSETRPLVEAEWEAGMTDFPKIFCETSQKLVSVEAFALAAKYYSVQNL  
GICTPFEQLLVALRGNQNRIGENQKAVEFMNMKKSHEVQAMSELISSIADYYGIKQVID  
LGSGKGYLSSFLSLKYGLKVY GIDSSNTNTHGAEERNRKLKHHWKLCHAQSRLDVNGLAL  
KMAKERKVQNKVNKADTEEVFNNSPTNQEKMPTSAILPDFSGSVISNIRNQMETLHSQP  
HQEENLCFENSFSLINLLP INAVEPTSSQIPNRETSEANKERRKMTSKSSESNIYSPLT  
SFITADSELHDI IKDLEDCLMVGLHTCGDLAPNTLRIFTSNSEIKGVCSVGCCYHLLSEE  
FENQHKERTQEKWGFFMCHYLKEERWCCGRNARMSACLALERVAAGQGLPTESLFYRAVL  
QDI IKDCYGITKCDRHVGKIYSKCSSFLDYVRRSLKKLGLDESKLPEKIIMNYEYKYPK  
MNELEAFNMLKVVLAPCIETLILLDRLCYLKEQEDIAWSALVKLFDPVKSPRCYAVIALK  
KQQ

>sp|Q96IZ6|MET2A\_HUMAN Methyltransferase-like protein 2A OS=Homo sapiens GN=METTL2A PE=1  
SV=5  
MAGSYPEGAPAVLADKRQQFGSRFLRDPARVFHHNAWDNVEWSEEQAAAAERKVQENSIQ  
RVCQEKQVDYEINAHKYWNDFYKIHENGFFKDRHWLFTFPELAPSQNQNHLDWFLENK  
SEVPECRNNE DGPLIMEEQHKCSSKSLEHKTQTL PVEENVTKIISDLEICADEFPGSSA  
TYRILEVGCVGNTVFPILQTNNDPGLFVYCCDFSSTAIELVQTNSEYDPSRCFAFVHDL  
CDEEKSYVPKGSLDIIILIFVLSAIVPDKMQKAINRLSRLLKPGGMMLLRDYGRYDMAQ

LRFKKGQCLSGNFYVRGDGTRVYFFTQEELDTLFTTAGLEKVQNLVDRRLQVNRGKQLTM  
YRVWIQCKYCKPLLSSTS

>sp|Q99707|METH\_HUMAN Methionine synthase OS=Homo sapiens GN=MTR PE=1 SV=2

MSPALQDLSQPEGLKKTLRDEINAILQKRIMVLDGGMGMTMIQREKLNEEHFRGQEFKDHA  
RPLKGNNDILSITQPDVIYQIHKEYLLAGADIETNTFSSTSIAQADYGLEHLAYRMNMC  
SAGVARKAAEEVTLQTGIKRFVAGALGPTNKTLSPSPSVERPDYRNITFDELVEAYQEQA  
KGLLDGGVDILLIETIFDTANAKAALFALQNLFEKEYAPRPFIISGTIVDKSGRTLSGQT  
GEGFVISVSHGEPLCIGLNCALGAAEMRPFIEIIGKCTTAYVLCYPNAGLPNTFGDYDET  
PSMAKHLKDFAMDGLVNIVGCCGSTPDHIREIAEAVKNCKPRVPPATAFEGHMLLSGL  
EPFRIGPYTNFVNIGERCNVAGSRKFAKLIMAGNYEEALCAKVQVEMGAQVLDVNMDDG  
MLDGPSAMTRFCNLIASEPDIKVPCLIDSSNFAVIEAGLKCCQGKCIVNSISLKEGEDD  
FLEKARKIKKYGAAMVVMFAFDEEGQATETDTKIRVCTRAYHLLVKKLGFPNDIIFDPNI  
LTIGTGMEEHNLIAINFHATKVIKETLPGARISGGLSNLSFSFRGMEAIREAMHGVLFLY  
HAIKSGMDMGIVNAGNLPVYDDIHKELLQCEDLIWNKDPEATEKLLRYAQTQGTGGKKV  
IQTDEWRNGPVEERLEYALVKGIEKHIIEDTEEARLNQKKYPRPLNIEGPLMNGMKIVG  
DLFGAGKMFLPQVIKSARVMKAVGHLIPFMEKEREETRVLNGTVEEEDPYQGTIVLATV  
KGDVHDIGKNIVGVVLCNNFRVIDLGVMTPCDKILKAALDHKADIIGLSGLITPSLDEM  
IFVAKEMERLAIRIPLLIGGATTSKHTAVKIAPRYSAPVIHVLDASKSVVVCQLDEN  
LKDEYFEEIMEEYEDIRQDHYESLKERRYPLSQARKSGFQMDWLSEPHVKPTFIGTQV  
FEDYDLQKLVDYIDWKPFDFVWQLRGKYPNRRGPKIFNDKTVGGARKVYDDAHNMLNTL  
ISQKKLRARGVVGFWPAQSIQDDIHLIAEAAVPAQAEPIATFYGLRQQAEDSASTEPYY  
CLSDFIAPLHSGIRDYLGFAVACFGVEELSKAYEDDGGDYSSIMVKALGDRLAFAFAEE  
LHERVRRELWAYCGSEQLDVADLRRLRYKGIAPAGYPSQPDHTEKLTMWRLADIEQSTG  
IRLTESLAMAPASAVSGLYFSNLKSKYFAVGKISKDQVEDYALRKNISVAEVEKWLGPIL  
GYDTD

>sp|Q9NRN9|METL5\_HUMAN Methyltransferase-like protein 5 OS=Homo sapiens GN=METTL5 PE=1  
SV=1

MKKVRLKELESRLQQVDGFEKPKLLEQYPTRPHIAACMLYTIHNTYDDIENKVVDLGC  
GCGVLSIGTAMLGAGLCVGFIDIDDALEIFNRNAEEFELTNIDMVQCDVCLLSNRMSKSF  
DTVIMNPPFGTKNNKGTDMAFLKTALEMARTAVYSLHKSSTREHVQKKAIEWKIKIDIIA  
ELRYDLPASYKFHKKKSVDIEVDLIRFSF

>sp|O43934|MFS11\_HUMAN UNC93-like protein MFS11 OS=Homo sapiens GN=MFS11 PE=2 SV=2

MSPESKKLFNIIILGVAFMFMFTAFQTCGNVAQTVIRSLNRTDFHSGSYTSMIIYGVFS  
ASNLITPSVVAIVGPQLSMFASGLFYSMYIAVFIQFPWFSFYTASVFIGIAAAVLWTAQG  
NCLTINSDEHSIGRNSGIFWALLQSSLFFGNLYIYFAWQGKTQISESDRRTVFIALTVIS  
LVGTVLFFLIRKPDSENVLGEDESSDDQDMEVNESAQNNLTKAVDFAKKSFKLCVTKEML  
LLSITTAYTGLELTFSGVYGTICIGATNKFGAEEKSLIGLSGIFIGIGEILGGSFLGLLS  
KNNRFGNRPVLLGILVHFIAFYLI FLNMPGDAPVAPVKGTDSSAYIKSSKEVAILCSFL  
LGLGDSFNTQLLSILGFLYSEDSAPAFKFKVQSICAAVAFFYSNYLLLHWQLLMVI  
FGFFGTISFFTVEWEEAAAFVARGSDYRSI

>sp|Q6NUT3|MFS12\_HUMAN Major facilitator superfamily domain-containing protein 12 OS=Homo  
sapiens GN=MFS12 PE=1 SV=2

MGPGPPAAGAAPSPRPLSLVARLSYAVGHFLNDLCASMWFTYLLLYLHVRAYSSRGAGL  
LLLLGQVADGLCTPLVGYEADRAASCCARYGPRKAHVLGVTCVLLSFPIFSPCLGCGA

ATPEWAALLYYPFIVIFQFGWASTQISHLSLIPELVTNDHEKVELTALRYAFTVVANIT  
VYGAAWLLLHLQGSSRVEPTQDISISDQLGGQDVPVFRNLSLLVVGAVFSLLFHLGTR  
ERRRPHAEPEGHTPLLAPATAQPLLLWKHWLREPAFYQVGILYMTTRLIVNLSQTYMAM  
YLTYSLHLPKKFIATIPLVMYLSGFLSSFLMKPINKCIGRNMTYFSGLLVILAFAAWVAL  
AEGLGVAVYAAAVLLGAGCATILVTSLAMTADLIGPHTNSGAFVYGSMFLDKVANGLAV  
MAIQSLHPCPSELCCRACVSFYHWAMVAVTGGVGVAAAALCLCSLLLWPTRLRRWDRDARP

>sp|A6NFX1|MFS2B\_HUMAN Major facilitator superfamily domain-containing protein 2B OS=Homo sapiens GN=MFS2B PE=2 SV=3

MAAPPAPAAKSPQPEPHAPEPGPSAKRGREDSRAGRLSFCTKVCYGIGGVPNQIASSA  
TAFYLQLFLLDIAQIPAAQVSLVLFGGKVSAAAADPVAGFFINRSQRTGSGRLMPWVLGC  
TPFIALAYFFLWFLPPFTSLRGLWYTTFYCLFQALATFFQVPYTALTMLLTPCPRERDSA  
TAYRMTVEMAGTLMGATVHGLIVSGAHRPHRCEATATPGPVTVSPNAAHLYCIAAAVVVV  
TYPVCISLLCLGVKERPDPSAPASGPGLSFLAGLSLTRHPPYLKLVISFLFISAAVQVE  
QSYLVLFCTHASQLHDHVQGLVTLVLSAVLSTPLWEWVLQRFGKKTSAFGIFAMVPFAI  
LLAAVPTAPVAYVAVFVSGVSIASVLLLPSMLPDVDDFQLQHRHGPGETIFYSSYVF  
FTKLSGACALGISTLSLEFSGYKAGVCKQAEVVVTLKVLIGAVPTCMILAGLCILMVGS  
TPKTPSRDASSRLSLRR

>sp|Q8IWD5|MFS6L\_HUMAN Major facilitator superfamily domain-containing protein 6-like OS=Homo sapiens GN=MFS6L PE=2 SV=2

MSANPRWDISRALGVAKLFHLVCGVREACVTPFLTLYLRQLGLAAPWVGTLMGTKHLIAA  
FWAPVCAFLAKSYRKRRALLIGSLLGSVGASLLMVLVPPVDKNRVHFCNGSSGLTSDA  
LPGVTLPVNITSAQESASSHPAKRTAEVEMPGFRNPPGESDRETFRDLHVYLAPSVEGAR  
TTSQALLHPVTSGLKDHPWEVTFEVVKTALPLLPGGKGPGNPANLSGKGAFAFDLSLE  
ALRRTFILSLGSVAFWELLTAPLEQVADDSLYEFLDFVDATDRYRSLVWVRLGMSAGVC  
GITALVGQLDCFLMTSGPRGVVHFYGYSVVSTLALLVSIAPFIPICQQWEPSYKRVKALS  
IVGGDPHLILLASTTVLGAIVSTVQNFLFWHMKDHGSGELVMGFSVALSLLGEILLHPF  
KATLLRKLSRTGLVGLSCLAGQLLYSFLWSWVSLPIQILSAISNRALWWAVGASVE  
DLATPRMERALSALFRGHFYSGCSLGSFVGGFVVMRFS LAVLYQACCVALLLWLALLS  
IQRRLPREKIKYSKLLSMEVSDTSDSEQGTEQDWLVKAMREEHSD

>sp|Q6N075|MFS5\_HUMAN Molybdate-anion transporter OS=Homo sapiens GN=MFS5 PE=1 SV=2

MLVTAYLAFVGLLASCLGLELSRCRAKPPGRACSNPSFLRFQLDFYQVYFLALAADWLQA  
PYLYKLYQHYYFLEGQIATLYVCGLASTVLFGLVASSLDWLGRKNSCVLSLTYSLCCL  
TKLSQDYFVLLVGRALGGLSTALLFSAFEAWYIHEHVERHDFPAEWIPATFARAAFWNHV  
LAVVAGVAAEAVASWIGLGPVAPFVAIPLLALAGALALRNWGENYDRQRAFSRTCAGGL  
RCLLSDRRVLLLGTIQALFESVIFVFLWTPVLDPHGAPLGIIFSSFMAASLLGSSLYR  
IATSKRYHLQPMHLLSLAVLIVVFSLFMLTFSTSPGQESPVESFIAFLLIELACGLYFPS  
MSFLRRKVIPETEAGVNLNFRVPLHSLACLGLLVLHDSRKTGTRNMFSCSAVMVMAL  
LAVVGLFTVVRHDAELRVSPSTEOPYAPEL

>sp|Q6UXD7|MFS7\_HUMAN Major facilitator superfamily domain-containing protein 7 OS=Homo sapiens GN=MFS7 PE=2 SV=1

MAGPTEAETGLAEPRALCAQRGHRTYARRWVFLAISLLNCSNATLWLSFAPVADVIAED  
LVLSMEQINWLSLVYLVVSTPFGVAAIWILDSVGLRAATILGAWLNFAGSVLRMVPCMVV  
GTQNPFAFLMGGSQSLCALAQSLVIFSPAKLAALWFPEHQRATANMLATMSNPLGLVANV  
LSPVLVKKGEDIPMLGVYTIAGVVCLLSTICLWESVPPTPPSAGAASSTSEKFLDGLK

LQLMWNKAYVILAVCLGGMIGISASFSALLEQILCASGHSSGFSGLCGALFITFGILGAL  
ALGPYVDRTKHFTEATKIGLCLFSLACVPFALVSQQLGGQTLALAATCSLLGLFGFSVGPV  
AMELAVECSFPVGEAATGMIFVLGQAEGILIMLALTAVRRSEPSLSTCQQGEDPLDW  
TVSLLLMAGLCTFFSCILAVFFHTPYRRLQAESGEPPSTRNAVGGADSGPGVDRGGAGRA  
GVLGPSTATPECTARGASLEDPRGPGSPHPACHRATPRAQGAATDAPSRPGRLAGRVQA  
SRFIDPAGSHSSFSSPWVIT

>sp|Q8NBP5|MFS9\_HUMAN Major facilitator superfamily domain-containing protein 9 OS=Homo sapiens GN=MFS9 PE=2 SV=2

MELGGHWMNSAPRLVSETAERKQEKTGTAEAAADSGAVGARRFLLCLYLVGFLDLFGV  
SMVVPLLSLHVKSGLASPTVAGIVGSSYGILQLFSSTLVGCWSDVVGRRSSLLACILLSA  
LGYLLGAATNVFLFVLARVPAGIFKHTLSISRALLSDVPEKERPLVIGHFNTASGVGF  
ILGPVGGYLTELEDGFYLTAFICFLVFIILNAGLVWFFPWREAKPGSTEKGLPLRKTHVL  
LGRSHDTVQEAATSRRARASKKTAQPWVEVLALRNMKNLLFSEMWDIFLVRLMAMAVM  
LYYSNFVLALEERFVGRPKVTGYLISYSSMLGAVAGLALGPILRLYKHNSQALLHSSIL  
TCTLLLYSLAPTMAVVLSTLLSFSTAIGRTCITDLQTLVGAQASGTLIGVGQSVTA  
VGRIIAPLLSGVAQEVSPPGPPSLGAVLALVAIFIMSLNKRHSSGDGNSKLKSE

>sp|Q86V88|MGDP1\_HUMAN Magnesium-dependent phosphatase 1 OS=Homo sapiens GN=MDP1 PE=1 SV=1

MARLPKLAVFDLDYTLWPFWVDTHVDPFPHKSSDGTVRDRRGQDVRLYPEVPEVLKRLQS  
LGVPGAAAARTSEIEGANQLLELFDLFRYFVHREIYPGSKITHFERLQKGTGIPFSQMIF  
FDDERRNIVDVKLGVTCTIHIQNGMNLQTLSSQLETFKAQGTGLRSSLEESPFEA

>sp|Q9BP7|MGME1\_HUMAN Mitochondrial genome maintenance exonuclease 1 OS=Homo sapiens GN=MGME1 PE=1 SV=1

MKMKLFQTCRQLRSSKFSVESAAALVAFSTSSYSCGRKKKVNPEEVDQEKYSNLVQSVL  
SSRGVAQTPGSVEEDALLCGPVSKHKLPNQGEDRRVPQNWFIENPERSDKPNASDPSVP  
LKIPLQRNVIPSVTRVLQQTMTKQQVFLLEWQRMILELGEDGFKEYTSNVFLQGKRFH  
EALESILSPQETLKERDENLLKSGYIESVQHILKDVSGVRALESVQHETLNYIGLLDCV  
AEYQGKLCVIDWKTSEKPKPIQSTFDNPLQVVAYMGAMNHDNYSFQVQCGLIVVAYKD  
GSPAHPHFMDAELCSQYWTWLLRLEEYTEKKKNQNIQKPEYSE

>sp|Q96A72|MGN2\_HUMAN Protein mago nashi homolog 2 OS=Homo sapiens GN=MAGOHB PE=1 SV=1

MAVASDFYLYYVGHGKFGHEFLEFEFRPDGKLRVANNYKNDVMIRKEAYVHKSVME  
ELKRIIDDSEITKEDDALWPPDRVGRQLEIVIGDEHISFTTSKIGSLIDVNQSKDPEG  
LRVFYYLVQDLKCLVFSLIGLHFKIKPI

>sp|P61326|MGN\_HUMAN Protein mago nashi homolog OS=Homo sapiens GN=MAGOH PE=1 SV=1

MESDFYLYYVGHGKFGHEFLEFEFRPDGKLRVANNYKNDVMIRKEAYVHKSVMEEL  
KRIIDDSEITKEDDALWPPDRVGRQLEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLR  
VFYYLVQDLKCLVFSLIGLHFKIKPI

>sp|Q9UM21|MGAT4A\_HUMAN Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A OS=Homo sapiens GN=MGAT4A PE=1 SV=1

MRLRNGTVATALAFITSFLTSLWYTTWQNGKEKLIAYQREFLALKERLRIAEHRISQRSS  
ELNTIVQQFKRVGAETNGSKDALNKFSDNTLKLKELTSKKSQVPSIYYHLPHLLKNEG  
SLQPAVQIGNRTGVSIVMGIPTVKREVKSYLETLHSLIDNLYPEEKLDVIVVFIGET  
DIDYVHGVDANLEKEFSKEISSGLVEVISPPESYYPDLTNLKETFGDSKERVRWRWKQNL  
DYCFLMMYAQEKGIYYIQLEDDIIVKQNYFNTIKNFALQLSSEWMILEFSQLGFIGKMF

QAPDLTLIVEFIFMFYKEKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIRFRPSLFQ  
HVGLHSSLSGKIQKLTDKDYMKPLLLKIHVNPPAEVSTSLKVYQGHTLEKTYMGEDFFWA  
ITPIAGDYILFKFDKPVNVESYLFHSGNQEHPGDILLNTTVEVLPFKSEGLEISKETKDK  
RLEDGYFRIGKFENGVAEGMVDPSLNPISAFRLSVIQNSAVWAILNEIHIKKATN

>sp|Q8N4Q1|MIA40\_HUMAN Mitochondrial intermembrane space import and assembly protein 40  
OS=Homo sapiens GN=CHCHD4 PE=1 SV=1

MSYCRQEGKDRIIFVTKEDHETPSSAELVADDPNDPYEEHGLILPNGNINWNCPLGGMA  
SGPCGEQFKSAFSCFHYSTEEIKGSDCVDQFRAMQECMQKYPDLYPQEDEDEEEEREKKP  
AEQAEETAPIEATATKEEEGSS

>sp|Q8TC05|MDM1\_HUMAN Nuclear protein MDM1 OS=Homo sapiens GN=MDM1 PE=1 SV=2

MPVRFKGLSEYQRNFLWKKSYLESCNSSVGRKYPWAGLRSDQLGITKEPSFISKRRVPY  
HDPQISKSLWNGAISESNVVASPEPEAPETPKSQAEQKDVQTQERVHSLEASRVPKRTR  
SHSADSRAEGASDVNNEGVTNHTPVNENVELEHSTKVLSENVNGLDRLLRKKAGLTVV  
PSYNALRNSEYQRQFVWKTSETAPAFANQVFHNKSQFVPPFKGNSVIHETEKRNFKG  
LSPVKEPKLRNDLRENRLNLETVSPERKSNKIDDRLEAEMELKDLHQPKRKLTPWKHQ  
LGKVNSEYRAKFLSPAQYLYKAGAWTHVKGNNPNQVKELREKAEFYRKRQVQTHFSRDHL  
NQILSDSNCCWDVSSTTSSEGTVSSNIRALDLAGDPTSHKTLQKCPSTEPEEKGNIVEEQ  
PQKNTTEKLGVSAPTIPVRRRLAWDTENTSEDVQKQGEKEEEDDNEEEGDRKTGKQAFM  
GEQEKLDVREKSKADKMKEGSDSSVSSEKGGRLPTPKLRELGGIQRTHHDLTPAVGGAV  
LVSPSKMKPPAPEQRKRMTSQDCLETSKNDFTKKESRAVSLTSPAAGIKTVDPPLPLRED  
SEDNIHKFAEATLPVSKIPKYPTNPPGQLPSPPHVPSYWHPSRRIQGSRLDPEFQHNVGK  
ARMNNLQLPQHEAFNDEDEDRLSEISARSAASSLRAFQTLARAKKRKENFWGKT

>sp|P51608|MECP2\_HUMAN Methyl-CpG-binding protein 2 OS=Homo sapiens GN=MECP2 PE=1 SV=1

MVAGMLGLREEKSEDQDLQGLKDKPLKFKVKKDKKKEKEGKHEPVQPSAHHSAEPAEAG  
KAETSEGSAPSAPVEASASPKQRRSIIIRDRGPMYDDPTLPEGWTRKLKQKRSGRSAGKY  
DVYLINPQGKAFRSKVELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRREQPKPKPKSPK  
APGTGRGRGRPKSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMPFQTSPPGKAEGGGAT  
TSTQVMVIKRPGRRKAEADPQAIPKKRGRKPGSVAAAAAEAKKAVKESSIRSVQETV  
LPIKKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLTKCKSPGRKSKESSPKGRSSASS  
PPKKEHHHHHHHSESPKAPVPLPPLPPPPPEPESSEDPTSPPEPQDLSSSVCKEEKMPR  
GGSLESDGCPKEPAKTQPAVATAATAAEKYKHRGEGEKDIVSSMPRPNREEPVDSRTP  
VTERVS

>sp|O00587|MFNG\_HUMAN Beta-1,3-N-acetylglucosaminyltransferase manic fringe OS=Homo  
sapiens GN=MFNG PE=1 SV=2

MQCRLPRGLAGALLTLLCMGLLCLRYHLNLSQQRVQGTPELSQPNPGPPKLQLHDVFI  
KTTRAFHRLRLELLLDTWVSRTREQTFVFTDSPDKGLQERLGSHLVVTNCSAEHSHPAL  
CKMAAEFDFTLASGLRWFCVDDDNVYNPRALLQLLRAFPLARDVYVGRPSLNRPIHASE  
PQPHNRTRLVQFWFATGAGFCINRKLALKMAPWASGSRFMDTSALIRLPDDCTMGYIE  
CKLGGRLQPSPLFHSHLETQLLRTAQLPEQVTLSYGVFEGKLNVIKLQGPFSPEEDPSR  
FRSLHCLLYPDTPWCPQLGAR

>sp|Q9H019|MFRL1\_HUMAN Mitochondrial fission regulator 1-like OS=Homo sapiens GN=MTFR1L  
PE=1 SV=2

MSGMEATVTIPIWQNKPHGAARSVVRRIGTNLPLKPCARASFETLPNISDLCLRDVPPVP  
TLADIAWIAADEEETARVRSDDRPLRHTWKPSPLIVMQRNASVPNLRGSEERLLALKKP



ALPALSRTTELQDELSHLRSQIAKIVAADAASASLTPDFLSPGSSNVSSPLPCFGSSSFHS  
TTSFVISEDITEETEVEPELPSVPLLCSASPECKPEHKAACSSSEDDCVSLSKASSFA  
DMMGILKDFHRMQSQDLNRSLLKEEDPAVLISEVLRRKFALKEEDISRKGN

>sp|Q9BY79|MFRP\_HUMAN Membrane frizzled-related protein OS=Homo sapiens GN=MFRP PE=1 SV=1

MKDFSDVILCMEATESSKTEFCNPAFEPESGPPCPPVPFEDASYVPAPWHGRRPRGLR  
PDCRFSWLCVLLSSLLLLLGLLVAIILAQLQAAPSGASHPLPAGGLTTTTTPTIT  
TSQAAGTPKGQESGVSPSPQSTCGLLSGPRGFFSSPNYPDPYPNTHCVWHIQVATDH  
AIQLKIEALSIESVASCLFDRLELSPEPEGPLLRCGRVPPPTLNTNASHLLVVFVSDSS  
VEGFGFHAWYQAMAPGRGSCADEFRCQDLICLLPDSVCDGFANCADGSDETNCSAKFSG  
CGGNLTGLQGTFSTPSYLQQYPHQLLCTWHISVPAGHSIELQFHNFSLEAQDECKFDYVE  
VYETSSSGAFSLLGRFCGAEPPLHVSSHHELAVLFRTDHGISSGGFSATYLAFNATENP  
CGPSELSCQAGGCKGVQWCMMDWRDCTDGSDDNCSGPLFPPPELACEPVQVEMCLGLSYN  
TTAFPNIWVGMITQEEVVEVLSGYKSLTSLPCYQHFRRLLCGLLVPRCTPLGSVLPPCRS  
VCQEAHQCSGLALLGTPWPFNCNRLPEAADLEACAQ

>sp|Q5TF39|MFS4B\_HUMAN Sodium-dependent glucose transporter 1 OS=Homo sapiens GN=MFS4B  
PE=2 SV=1

MLCASFLGLGSVAIVGPTFQDLATNVNRNISSLSFIFVGRALGYLSGSVIGGFLVDVMN  
YFLLGISMSATTVGLYLPFCKTAILLTVMSIFGVSIGILDTGGNVLILAIWGDKGAP  
HMQALHFSFALGAFLAPLLAKLALGPTASAENHTESDFHPALNQSSDADSEALFGVPNDK  
NLLWAYAVIGTYMFLVSVIFFCLFLKNSSKQEKARASAETFRRAKYHNALLCLLFLFFF  
YVGAEVTYGSYVFSFATTHAGMKESEAAGLNSIFWGTFAACRGLAIFPATCLQPGTMIVL  
SNIGSLTSSLFLVLFDKNPICLWIATSVYGASMATTFPSGVSWIEQYTTIHGKSAAFFVI  
GASLGEMAIPAVIGILQGKYPDLPVVLYTSLGASIATGILFPVLYKLATSPLDRQRKEDR  
KSEDQKALLSSSGLNEYEEENEEDAEKWNEMDFEMIETNDTMRHSIIETSRSSLTEPTA  
EVYNQYPSNALVFESSPFNTGSAHVKHLPETRTKGTNV

>sp|Q9H2D1|MFTC\_HUMAN Mitochondrial folate transporter/carrier OS=Homo sapiens  
GN=SLC25A32 PE=1 SV=2

MTGQGQSASGSSAWSTVFRHVRyenLIAGVSGGVLNLAHLPLDLVKIRFAVSDGLELRP  
KYNGILHCLTTIWKLDGLRGLYQGVTPNIWGAGLSWGLYFFFYNAIKSYKTEGRAERLEA  
TEYLVSAAEAGAMTLCITNPLWVTKTRLMLQYDAVVNSPHRQYKGMFDTLVKIYKYGVR  
GLYKGFVPGLFGTSHGALQFMAYELLKLKYNQHINRLPEAQLSTVEYISVAALSKIFAFA  
ATYPYQVVRARLQDQHMFGYSGVIDVITKTWRKEGVGGFYKGIAPNLIRVTPACCITFVVY  
ENVSHFLDLREKRK

>sp|A6NG13|MGAT4D\_HUMAN Alpha-1,3-mannosyl-glycoprotein 4-beta-N-  
acetylglucosaminyltransferase-like protein MGAT4D OS=Homo sapiens GN=MGAT4D PE=2 SV=3

MRTKQVNLLITLVAVALFSFSCFSIYRITQTNNQLINCRNHILEFKENMLHLRNKTEKNT  
QEMMKVLNRMKYEITKREILSGNLVAQKADILNKNETVSNTFEDLKFFFPHLRKEGRIYP  
DVIIGKGKTGVSFALGISTVNRGNYSYLKQTLTSVVSRMTLSQEKDSVVIVLVADSNEY  
LHSVVKMITKKFKRQVRSGSLEVISIPAFLYSSMLNAKHLAEASQKLASWRIKQVLDFCI  
LLLYAQPKAKYYLQLEDDIIAKEMYFTKITDFVGNISSNNWFFIEFSMLGFIGKLRSED  
LTHFVRFFLMFYKEKPIDWLLNDFQVKVCDAGEDLRNCMKRKKQIRIQYKPSLFQHVGI  
HSSFPRKEQYEKKI

>sp|Q16674|MIA\_HUMAN Melanoma-derived growth regulatory protein OS=Homo sapiens GN=MIA  
PE=1 SV=1

MARSLVCLGVIILLSAFSGPGVRGGPMPKLADRKLCADQECSHPIISMAVALQDYMAPDCR  
FLTIIHRGQVVVYFSKLKGRGRLFWGGSVQGDYYGDLAARLGYFPSSIVREDQTLKPGKVD  
VKTDKWDIFYCQ

>sp|Q96AX9|MIB2\_HUMAN E3 ubiquitin-protein ligase MIB2 OS=Homo sapiens GN=MIB2 PE=1 SV=3

MGWKPSEARGQSQSFQASGLQPRSLKAARRATGRPDRSRAARPTMDPSAHSRAAPPNMD  
PDPQAGVQVGMRVVRGVDWKWGQQDGGEGGVGTVELGRHGSPSTPDRTVVVQWDQGTRT  
NYRAGYQGAHDLLEYDNAQIGVRHPNIIICDCKKHGLRGMWKCRCVCLDYDLCTQCYMHN  
KHELAHAFDRYETAHSRPVTLSPRQGLPRIPLRGIFQGAKVVRGPDWEWGSQDGGEGKPG  
RVVDIRGWDVETGRSVASVTWADGTTNVYRVGHKGKVDLKCVCGEAAGGFYKDHLPRLGK  
PAELQRRVSADSQPFQHGDKVKCLLDTDVLRMQEGHGGWNPRMAEFIGQTGTVHRITDR  
GDVRVQFNHETRWTFHPGALTKHHSFWVGDVVRVIGDLDTVKRLQAGHGEWTDMMAPALG  
RVGKVVKVFVGDGDLNLRVAVAGQRWTFSPSCLVAYRPEEDANLDAERARENKSSLSVALDK  
LRAQKSDPEHPGRLVVEVALGNAARALDLLRRRPEQVDTKNQGR TALQVAAYLGGVELIR  
LLLQARAGVDLPDEGTALHYAALGNQPEATRVLLSAGCRADAINSTQSTALHVAVQRG  
FLEVVRALCERGCVDNLPDAHSDTPLHSAISAGTGASGIVEVLTEVPNIDVTATNSQGFT  
LLHHASLKGHALAVRKILARARQLVDAKKEDGFTALHLAALNNHREVAQILIREGRCDVN  
VRNRKLQSPLHLAVQQAHVGLVPLLV DAGCSVNAEDEEGDTALHVALQRHQLPLVADGA  
GGDPGQLQLLSRLQASGLPGSAELTVGAACFLALEGADVSYTNHRGRSPLDLAAEGRV  
LKALQGCAQRFRRERQAGGGAAPGPRQTLGTPNTVTNLHVGAAPGPEAAECLVCSELALLV  
LFSPCQHRTVCEECARRMKKCI RCQVVVSKKL RPDGSEVASAAPAGPPRQLVEELQSR Y  
RQMEERITCPICIDSHIRLVFQC G HGACAPCGSALSACPICRQPIRDRIQIFV

>sp|Q9Y3D0|MIP18\_HUMAN Mitotic spindle-associated MMXD complex subunit MIP18 OS=Homo sapiens GN=FAM96B PE=1 SV=1

MVGGGGVGGGLENANPLIYQRSGERPVTAGEEDEQVPDSIDAREIFDLIRSINDPEHPL  
TLEELNVVEQVRVQVSDPESTVAVAFPTPIPHCSMATLIGLSIKVKLLRSLPQRFKMDVH  
ITPGTHASEHAVNKQLADKERVAAALENTHLLEVNVNQLSARS

>sp|Q99797|MIPEP\_HUMAN Mitochondrial intermediate peptidase OS=Homo sapiens GN=MIPEP PE=1 SV=2

MLCVGRLGGLGAAAAALPPRRAGRGSL EAGIRARRVSTSWSPVGA AFNVKPQGSRLDLFG  
ERRGLFGVPELSAPEGFHIAQE KALRKTELLVD RACSTPPGPQTVLIFDELSDSLCRVAD  
LADFVKIAHPEPAFREAAEEACRSIGTMVEKLNTNVDLYQSLQKLLADKKLVDSLDPETR  
RVAELFMFD FEISGIHL DKEKRKRAVDLNVKILDL SSTFLMGTFNPNKIEKHLLPEHIRR  
NFTSAGDHIIIDGLHAESPDDL VREAAYKIFLYPNAGQLKCLEELLSSRDLLAKLVGYST  
FSHRALQG TI AKNPETVMQFLEKLSDKLSERTLKDFEMIRGMKMLNPQNSEVMPWDPPY  
YSGVIRAERYNIEPSLYCPFFSLGACMEGLNILLNRLLGISLYAEQPAKGEVWSE DV RKL  
AVVHESEGLLGYIYCDFFQ RADKPHQDCHFTIRGGRLKEDGDYQLPVVVLMLNLPRSSRS  
SPTLLTPSMMENLFHEMGHAMHSM LGRTRYQHVTGTRCPTDFAEVPSILMEYFANDYRVV  
NQFARHYQTGQPLPKNMVSRLCESKKVCAAADMQLQVFYATLDQIYHGKHPLRNSTTDIL  
KETQEKFYGLPYVPNTAWQLRFSHLVGYGARYYSYLMSRAVASMVWKECFLQDPFNRAAG  
ERYRREMLAHGGGREPMLMVEGMLQKCP SVDDFVSALVSDLDLDFETFLMDSE

>sp|Q75NE6|MIRH1\_HUMAN Putative microRNA 17 host gene protein OS=Homo sapiens GN=MIR17HG PE=5 SV=1

MFCHVDVKISSKRYTWTKLPLNPKLVLIYLQSHFV LFFFSMCQSIWERPAIGRATTSSA  
SWMVG YDCLL

>sp|Q8IXI2|MIRO1\_HUMAN Mitochondrial Rho GTPase 1 OS=Homo sapiens GN=RHOT1 PE=1 SV=2

MKKDVRILLVGEPRVGKTSLSLVSEEFPEEVPRAEEITIPADVTPERVPTHIVDYSE  
AEQSDEQLHQEISQANVICIVYAVNNKHSIDKVTSRWIPLINERTDKDSRLPLILVGNKS  
DLVEYSSMETILPIMNQYTEIETCVECSAKNLKNISELFYYAQKAVLHPTGPLYCPEEKE  
MKPACIKALTRIFKISDQDNDGTLNDAELNFFQRICFNTPLAPQALEDVKNVVRKHISDG  
VADSGTLKGFLLHTLFIQGRHETTWTVLRRFGYDDDLDTPEYLFPLLKIPDCTTE  
LNHHAYLFLQSTFDKHDLDRCALSPDELKDLFKVFPYIPWGPDVNNTVCTNERGWITYQ  
GFLSQWTLTTYLDVQRCLEYLGYLGYSILTEQESQASAVTVTRDKKIDLQKKQTQRNVFR  
CNVIGVKNCGKSGVLQALLGRNLMRQKKIREDHKSYYAINTVYVYGQEKYLLLHDISESE  
FLTEAEIICDVVCLVYDVSNPKSFEYCARIFKQHFMSRIPCLIVAAKSDLHEVKQEYSI  
SPTDFCRKHKMPPPAFTCNTADAPSKDIFVKLTMMAMYPHVTQADLKSSTFWLRSFGA  
TVFAVLGFAMYKALLKQR

>sp|Q96FF7|MISP3\_HUMAN Uncharacterized protein MISP3 OS=Homo sapiens GN=MISP3 PE=2 SV=4

METPIEREIRRSCEESLRRSRLSPGRAGRELVLRVPVNLPGPGPALPRALERAR  
AGAQMQRDIEREAHRQAALRAVPEPRARSPPQPLGELKRFFEAAGSGSSAGAGDGAG  
PQRLPEPGGRPSAVQGGCRVLGSAPPPFTPSLLEQEVRAVREREQELQRQRSSVYGTAE  
FKEPTPSLTASRGDGLVVIWPPRRKVSINGLEQEERKP

>sp|Q8NDC0|MISSL\_HUMAN MAPK-interacting and spindle-stabilizing protein-like OS=Homo sapiens GN=MAPK1IP1L PE=1 SV=4

MSDEFSLADALPEHSPAKTSAVSNTKPGQPPQGWPGSNPWNPSAPSSVPSGLPPSATPS  
TVPFPGAPTGMYSVPPTGPPPGPPAPFPSPGSCPPPGGPYPAPTVPGPGPTGPYPPTN  
MPFPELPRPYGAPTDPAAGPLGPWGSMSGPWAPGMGGQYPTPNMPYPSPGYPAPPPP  
QAPGAAPPVPWGTVPFGAWGPPAPYPAPTGSYPTPGLYPTPSNPFQVPSGPGSAPPMPGG  
PHSYH

>sp|075030|MITF\_HUMAN Microphthalmia-associated transcription factor OS=Homo sapiens GN=MITF PE=1 SV=2

MQSESGIVPDFEVGEEFHPEPKTYELKSQPLKSSSSAEHPGASKPPISSSSMTSRILLR  
QQLMREQMQEERREQQKLQAAQFMQQRVPVSQTPAINVSVP TTLPSATQVPMEVLKVQ  
THLENPTKYHIQQAQRQVQKYLSTTLANKHANQVLSLPCPNQPGDHVMPPVPGSSAPNS  
PMAMLTLNSNCEKEGFYKFEEQNRAESECPMNTHSRASCMQMDVIDDIISLESSYNEE  
ILGLMDPALQMANTLPVSGNLIDLYGNQGLPPPGLTISNSCPANLPNIKRELTACIFPTE  
SEARALAKERQKKNHNLIERRRRFNINDRIKELGTLIPKSNPDMRWNGTILKASVDY  
IRKLQREQQRAKELNRQKKLEHANRHLLRIQELEMQARAHGLSLIPSTGLCSPDLVNR  
IIKQEPVLENCSDLLQHHADLTCTTTDLTDGTITFNNNLGTGTEANQAYSVP TKMGSK  
LEDILMDDTLSPVGVTDP LLSSVSPGASKTSSRRSSMSMEETEHTC

>sp|Q9H2W2|MIXL1\_HUMAN Homeobox protein MIXL1 OS=Homo sapiens GN=MIXL1 PE=1 SV=1

MATAESRALQFAEGAAFPAYRAPHAGGALLPPPSPAALLPAPPAGPGPATFAGFLGRDP  
GPAPPPASLGSPAPPKGAAAPSASQRRKRTSFAEQLQLELVFRRTYRYPDIHLRERLA  
ALTLLPESRIQVWFQNRRAKSRQSGKSFQPLARPEIILNHCAPGTETKCLKPQLPLEVD  
VNCLPEPNGVGGGISDSSSQGNFETCSPLSEDIGSKLDSWEEHIFSAFGNF

>sp|Q16659|MK06\_HUMAN Mitogen-activated protein kinase 6 OS=Homo sapiens GN=MAPK6 PE=1 SV=1

MAEFESLMNIHGFDLGSRYMDLKPLGCGGNLVSFSAVDNDCKRVAIKKIVLTDPQSVK  
HALREIKIIRRLDHDNIVKVFEILGPSGSQLTDDVGSLTELNSVYIVQEYMETDLANVLE

QGPLEEHARLFMYQLLRGLKYIHSANVLHRDLKPANLFINTEDLVLKIGDFGLARIMDP  
HYSHKGHLSEGLVTKWYRSPRLLSPNNYTKAIDMWAAGCIFAEMLTGKTLFAGAHELEQ  
MQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS  
PMDRLTAEALSHPYMSIYSFPMDEPISHPFHIEDEVDILLMDETHSHIYNWERYHDC  
QFSEHDWPVHNNFDIDEVQLDPRALSDVTDEEEVQVDPRKYLDGDREKYLEDPAFDTNYS  
TEPCWQYSDHHENKYCDLECSHTCNYKTRSSSYLDNLVWRESEVNHYEPKLIIDLSNWK  
EQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGDFDSFIAGTIQLSSQ  
HEPTDVVDKLNLDNSSVSQLELKSLISKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG  
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEG  
FLNNSGEFLFNKQLESIGIPQFHSPVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHL  
N

>sp|Q13164|MK07\_HUMAN Mitogen-activated protein kinase 7 OS=Homo sapiens GN=MAPK7 PE=1  
SV=2

MAEPLKEEDGEDGSAEPPGPVKAEPAAHTAASVAAKNLALLKARSFDVTFDVGDEYEI IET  
IGNGAYGVVSSARRRLTGQQAIAKKIPNAFDVVTNAKRTLRELKILKHFKDNI IAIKDI  
LRPTVPYGEFKSVYVLDLMESDLHQI IHSSQPLTLEHVRYFLYQLLRGLKYMHSAQVIH  
RDLKPSNLLVNENCELKIGDFGMARGLCTSPAEHQYFMTEYVATRWRAPELMLSLHEYT  
QAIDLWSVGCIFGEMLARRQLFPGKNYVHQLQLIMMVLGTPSPAVIQAVGAERVRAIYQS  
LPPRQVPVWETVYPGADRQALSLLGRMLRFEPSARISAAAALRHPFLAKYHDPDDEPDCA  
PPFDFAFDREALTRERIKEAIVAEIEDFHARREGIRQQIRFQPSLQPVASEPGCPDVEMP  
SPWAPSGDCAMESPPPPAPPPCPGPAPDTIDLTLQPPPPVSEPAPPKKGAI SDNTKAALK  
AALLKSLRSRLRDGPSAPLEAPEPRKPVTAQERQREREKRRRRQERAKEREKRRQERER  
KERGAGASGGPSTDFLAGLVLSNDNRSLLEWRTRMARPAAPALTSVPAPAPAPTPTPTPV  
QPTSPPPGPVAQPTGPQPSAGSTSGPVPQPACPPPGPAPHPTGPPGPIPVAPPQIATS  
TSLAAQSLVPPPGPLPGSSTPGVLPYFPPGLPPPDAGGAPQSSMSSEPDVNLVTQQLSKS  
QVEDPLPPVFSGTPKSGAGYGVGFDLEEFNLQSFDMGVADGPDGQADSASLSASLLAD  
WLEGHGMPADIESLQREIQMDSMMLLADLPDLQDP

>sp|P45983|MK08\_HUMAN Mitogen-activated protein kinase 8 OS=Homo sapiens GN=MAPK8 PE=1  
SV=2

MSRSKRDNFYSVEIGDSTFTVLKRYQNLKPIGSGAQGIVCAAYDAILERNVAIKKLSRP  
FQNQTHAKRAYRELVLKCVNHKNI IGLNVFTPQKSLEEFQDVYIVMELMDANLCQVIQ  
MELDHERMSYLLYQMLCGIKHLHSAGI IHRDLKPSNIVKSDCTLKILDFGLARTAGTSF  
MMTPYVVTRYRAPEVILGMGYKENVDLWSVGCIMGEMVCHKILFPGRDYIDQWNKVIEQ  
LGTPCPEFMKKLQPTVRTYVENRPKYAGYSFEKLFPDVLFPADSEHNKLKASQARDLLSK  
MLVIDASKRISVDEALQHPYINVWYDPSEAEAPPPKIPDKQLDEREHTIEEWKELIYKEV  
MDLEERTKNGVIRGQPSPLGAAVINGSQHPSSSSSVNDVSSMSTDPTLASDTSLEAAA  
GPLGCCR

>sp|P45984|MK09\_HUMAN Mitogen-activated protein kinase 9 OS=Homo sapiens GN=MAPK9 PE=1  
SV=2

MSDSKCDQFYSVQVADSTFTVLKRYQQLKPIGSGAQGIVCAAFDVLGINVAVKKLSRP  
FQNQTHAKRAYRELVLKCVNHKNI ISLLNVFTPQKTLEEFQDVYIVMELMDANLCQVIH  
MELDHERMSYLLYQMLCGIKHLHSAGI IHRDLKPSNIVKSDCTLKILDFGLARTACTNF  
MMTPYVVTRYRAPEVILGMGYKENVDIWSVGCIMGELVKGCVIFQGTDHIDQWNKVIEQ  
LGTPSAEFMKKLQPTVRNYVENRPKYPGIKFEELFPDWIFPSESERDKIKTSQARDLLSK

MLVIDPKRISVDEALRHPYITVWYDPAEAEAPPPQIYDAQLEEREHAIEEWKELIYKEV  
MDWEERSKNGVVKDQPSDAAVSSNATPSQSSSINDISSMSTEQTLASDTSDDLASTGPL  
EGCR

>sp|Q16539|MK14\_HUMAN Mitogen-activated protein kinase 14 OS=Homo sapiens GN=MAPK14 PE=1  
SV=3

MSQERPTFYRQELNKTIWEVPERYQNLSPVGSAGYGSVCAAFDTKTGLRVAVKKLSRPFQ  
SIIHAKRTYRELRLKHKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQ  
KLTDDHVQFLIYQILRGLKYIHSADIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMT  
GYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVG  
TPGAELLKKISSESARNYIQSLTQMPKMFANVFIGANPLAVDLLEKMLVLDSKRITAA  
QALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVISFVPPPLDQEEMES

>sp|Q9UL63|MKLN1\_HUMAN Muskelin OS=Homo sapiens GN=MKLN1 PE=1 SV=2

MAAGGAVAAAPCCRLLPYALHKWSSFSSTYLPENILVDKPNQSSRWSESNYPPQYLIL  
KLERPAIVQNITFGKYEKTHVCNLKKFKVFGGMNEENMTELLSSGLKNDYNKETFTLKHK  
IDEQMFPCRFIKIVPLLSWGPSFNFSIWYVELSGIDDPDIVQPCLNWYSKYREQEAIRLC  
LKHFRQHNYTEAFESLQKKTIALEHPMLTDIHDKLVKGFDFACEELIEKAVNDGLFNQ  
YISQQEYKPRWSQIIPKSTKGDGEDNRPGMRGGHQMVIDVQTETVYLFGGWDGTQDLADF  
WAYSVKENQWTCISRDEKENGPSARSCHKMCIDIQRRQIYTLGRYLDSSVRNSKSLKSD  
FYRYDIDTNTWMLLEDTAADGGPKLVFDHQMCMDESKHMIYTFGGRILTCNGSVDDSR  
SEPQFSGLFAFNCQCQTWKLLREDSCNAGPEDIQSRIGHCMLFHSKNRCLYVFGGQRSKT  
YLNDFFSYDVSDDHVDIISDGTKKDSGMVPMTGFTQRTIDPELNEIHVLSGLSKDKEKR  
EENVRNSFWIYDIVRNSWSCVYKNDQAAKDNPTKSLQEEEP CPRFAHQLVYDELHKVHYL  
FGGNPGKSCSPKMRLLDDFWSLKLCRPSKDYLLRHCKYLIRKHRFEEKAQVDPLSALKYLQ  
NDLYITVDHSDPEETKEFQLLASALFKSGSDFTALGFSDVDHTYAQRTQLFDTLVNFFPD  
SMTPPKGNLVDLITL

>sp|Q9BUB5|MKNK1\_HUMAN MAP kinase-interacting serine/threonine-protein kinase 1 OS=Homo  
sapiens GN=MKNK1 PE=1 SV=1

MVSSQKLEKPIEMGSSEPLPIADGDRRRKKRRRGRATDSLPGKFEDMYKLTSELLGEGAY  
AKVQGAVSLQNGKEYAVKIIKQAGHSRSRVFREVELYQCQGNKNILELIEFFEDDTRF  
YLVFEKLQGGSLAHIQKQKHFNEREASRVVRDVAAALDFLHTKDVSLCHLGWSAMAPS  
GLTAAPTSLGSSDPPTSASQVAGTTGIAHRDLKPENILCESPEKVSPVKICDFDLGSGMK  
LNNCTPIITPELTTPCGSAEYMAPEVVEVFTDQATFYDKRCDLWSLGVVLYIMLSGYPP  
FVGHCADCGWDRGEVCRVCQNKLFESIQEGKYEFPDKDWAHISSEAKDLISKLLVRDAK  
QRLSAAQVLQHPVWQGAPEKGLPTPQVLQRNSSTMDLTLFAAEAIALNRQLSQHEENEL  
AEEPEALADGLCSMKLSPPCKSRLARRRALAQAGRGEDRSPPTAL

>sp|Q9HBH9|MKNK2\_HUMAN MAP kinase-interacting serine/threonine-protein kinase 2 OS=Homo  
sapiens GN=MKNK2 PE=1 SV=3

MVQKKPAELQGFHRSFKGQNPFEAFSLDQPDHGDSDFLGQCSARPDMPASQPIDIPDAK  
KRGKKKRRGRATDSFSGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIKQPG  
HIRSRVFREVELYQCQGHRNVLELIEFFEEEDRFYLVFEKMRGGSILSHIHKRRHFNEL  
EASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKICDFDLGSGIKLNGDCS  
PISTPELLTPCGSAEYMAPEVEAFSEEASIDYKRCDLWSLGVILYILLSGYPPFVGRCG  
SDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAKDLISKLLVRDAKQRLSAA  
QVLQHPVWQGCAPENTLPTPMVLQRNSCAKDLTSFAAEAIAAMNRQLAQHDEDLAEEEAAG

QGQPVLVRATSRCLQLSPPSQSKLAQRRQRASLSSAPVVLVGDHA

>sp|Q13064|MKRN3\_HUMAN Probable E3 ubiquitin-protein ligase makorin-3 OS=Homo sapiens  
GN=MKRN3 PE=1 SV=1

MEEPAAPSEAHEAAGAAQAGAEAAREGVSGPDLPVCEPSGESAAPDSALPHAARGWAPFPV  
APVPAHLRRGGLRPAPASGGGAWPSPLPSRSSGIWTKQIICRYYIHGQCKEGENCRYSHD  
LSGRKMATEGGVSPPGASAGGGPSTAAHIEPPTQEVAEAPPAASSLSLPVIGSAAERGFF  
EAERDNADRGAAAGGAGVESWADAIEFVPGQPYRGRWVASAPEAPLQSSETERKQMAVGSG  
LRFCCYASRGVCFRGESCMYLHGDICDMCGLQTLHPMDAAQREEHMRACIEAHEKDMELS  
FAVQRGMDKVCIGICMEVVYEKANPNDRRFGILSNCHNSFCIRCIRRWRSARQFENRIVKS  
CPQCRVTSELVIPSEFWVEEEEKQKLIQQYKEAMSNKACRYFAEGRGNCPPGDTCFYKH  
EYPEGWGDEPPGPGGGSFSAYWHQLVEPVRMGEGNMLYKSIKKELVVLRLASLLFKRFLS  
LRDELPFSEDQWDLHYLEEYFNLI

>sp|Q9NXB0|MKS1\_HUMAN Meckel syndrome type 1 protein OS=Homo sapiens GN=MKS1 PE=1 SV=2

MAETVWSTDTGEAVYRSDPVRNLRLRVHLQRITSSNFLHYQPAAELGKDLIDLATFRPQ  
PTASGHRPEEDEEEEIVIGWQEKLFSGFEVDLYQNETACQSPLDYQYRQEILKLENSGGK  
KNRRIFTYTDSRYTNLEEHCQRMTTAASEVPSFLVERMANVRRRRQDRRGMEGGILKSR  
IVTWEPSEEFVRNNHVINTPLQTMHIMADLGPYKKLGKKYEHVLCCLKVDSNGVITVKP  
DFTGLKGPYRIETEGEKQELWKYTDNVSPHAQPEEEERERRVFKDLYGRHKEYLSSLVG  
TDFEMTVPGALRLFVNGEVVSAQGYEYDNLVHFFVELPTAHWSSPAFQQLSGVTQTCTT  
KSLAMDKVAHFSYPFTFEAFFLHEDESSDALPEWPVLYCEVLSLDFWQRYRVEGYGAVVL  
PATPGSHTLTVSTWRPVELGTVAELRRFFIGGSLELEDLSYVRIPGSFKGERLSRFGRLT  
ETTGTVTFRHLCLQQSRAFMESSSLQKRMRSVLDRLLEGFSQQSSIHNVLEAFRRARRRMQ  
EARESPLQDLVSPSGTLVS

>sp|Q8IYA7|MKX\_HUMAN Homeobox protein Mohawk OS=Homo sapiens GN=MKX PE=2 SV=2

MNTIVFNKLSGAVLFEDGGASERERGGRPYSGVLDSPHARPEVGIPDGPPLKDNGLRHR  
RTGARQNGGKVRHQRALQDMARPLKQWLYKHRDNPYPYTKTEKILLALGSQMTLVQVSNW  
FANARRRLKNTVRQPDLSWALRIKLYNKYVQGAERLSVSSDDSCSEDGENPPRTHMNEG  
GYNTPVHHPVIKSENSVIKAGVRPESRASEDYVAPPKYKSSLLNRYLNDSLRHVMATNTT  
MMGKTRQRNHSGSFSSNEFEELVSPSSSETEGNFVYRTDTLENGSNKGESAAANRKGPSK  
DDTYWKEINAAMALTNLAQGKDKLQGTTSCTIIQKSSHIAEVKTVKVPLVQQF

>sp|Q14165|MLEC\_HUMAN Malectin OS=Homo sapiens GN=MLEC PE=1 SV=1

MLGAWAVEGTAVALRLRLLLLLPPAIRGPGLVAGVAGAAGAGLPESVIWAVNAGGEAHV  
DVHGIHFRKDPLEGRVGRASDYGMLPILRSNPEDQILYQTERYNEETFGYEVPIKEEGD  
YVLVLKFAEVYFAQSQQKVFVDRLNGHVVKDLDFDRVGHSTAHEIIPMSIRKGKLSV  
QGEVSTFTGKLYIEFVKGYDNPVKCALYIMAGTVDDVPKLQPHPGLEKKEEEEEEEYD  
EGSNLKKQTNKNRVQSGPRTPNPYASDNSSLMFPILVAFGVFIPTLFLCLRL

>sp|Q9UHC1|MLH3\_HUMAN DNA mismatch repair protein Mlh3 OS=Homo sapiens GN=MLH3 PE=1 SV=3

MIKCLSVEVQAKLRSGLAISSLGQVEELALNSIDAEAKCVAVRVNMETFQVQVIDNGFG  
MGSDDEKVGNNRYFTSKCHSVQDLENPRFYGFRGEALANIADMASAVEISSKKNRTMKTF  
VKLFQSGKALKACEADVTRASAGTTVTVYNLFYQLPVRKCMDPRLEFEKVRQRIEALSL  
MHPSISFSLRNDVSGSMVLQLPKTKDVC SRFCQIYGLGKSQKLREISFKYKEFELSGYIS  
SEAHYNKNMQFLFVNKRLVLRKLHKLIDFLLRKESIICKPKNGPTSRQMNSSLRHRSTP  
ELYGIYVINVCQCFEYDVCMEPAKTLIEFQNWDTLLFCIQEGVKMFLKQEKLFVELSGE  
DIKEFSEDNGFSLFDATLQKRVTSDERSNFQEACNNILDSYEMFNLQSKAVKRKTTAENV

NTQSSRDSEATRKNNTDAFLYIYESGGPGHSMTEPSLQNKDSSCESKMLEQETIVASE  
AGENEKHKKSFLHSSLENPCGTSLEMFLLSPFQTPCHFEESSGQDLEIWKESTTVNGMAAN  
ILKNRIQNPQRKFKDATEVGCQPLPFATTLWGVHSAQTEKEKKKSSNCGRRNVFSYGR  
VKLCSTGFI THVVQNEKTKSTETEHSEFKNYVRPGPTRAQETFGNRTRHSVETPDIKDLAS  
TLKESGQLPNKKNCRTNISYGLENEPTATYTMFSAFQEGSKKSQTDCILSDTSPSPFPWY  
RHVSNDNRKTDKLGFSKPIVRKKLSLSSQLGSLEKFKRQYGKVENPLDTEVEESNGVTT  
NLSLQVEPDILLKDNRLNLSNDVCKITTEHSDSDSSCQPASHILNSEKFPFSKDEDCLE  
QQMPSLRESPMTLKELSLFNRKPLDLEKSSSLASKLSRLKGSERETQTMGMSRFPNELP  
NSDSSRKDSKLCVLTQDFCMLFNNKHEKTENGVIPTSDSATQDNSFNKNSKTHSNSNTT  
ENCVISETPLVLPPYNNKSVTGKDSVDLIRASEQQIGSLDSPSGMLMNPVEDATGDQNGIC  
FQSEESKARACSETEESNTCCSDWQRHFDVALGRMVYVNMKMTGLSTFIAPTEDIQAACTK  
DLTTVAVDVVLENGQYRCQPFPSDLVLPFLPRARAERTVMRQDNRTVDVTSSESLSQS  
LFSEWDNPVFARYPEVAVDVSSGQAESLAVKIHNLIPYRFTKGMHSMQVLQQVDNKF  
ACLMSTKTEENGEAGNLLVLVDQHAHERIRLEQLIIDSYEKQQAQSGRKKLLSSTLI  
PPLEITVTEEQRLLWCYHKNLEDLGLFVFPDTSDSLVLVGKVPFCFVEREANELRRGR  
STVTKSIVEEFIREQLELLQTTGGIQGTLPPLTVQKVLASQACHGAIKFNDGLSLQESCRL  
IEALSSCQLPFQCAHGRPSMLPLADIDHLEQEKQIKPNLTKLRKMAQAWRLFGKAECDR  
QSLQQSMPPCEPP

>sp|Q9H492|MLP3A\_HUMAN Microtubule-associated proteins 1A/1B light chain 3A OS=Homo sapiens GN=MAP1LC3A PE=1 SV=2

MPSDRPFKQRRSFADRCKEVQKIRQHPKIPVIERKGEKQLPVLDTKFLVPDHNVM  
SELVKIIRRLQLNPTQAFLLVNQHSMSVSVSTPIADIYEKEDDGFLYMVYASQETFG  
F

>sp|Q9UH92|MLX\_HUMAN Max-like protein X OS=Homo sapiens GN=MLX PE=1 SV=2

MTEPGASPEDPWVKASPVGAHAGEGRAGRARRRGAGRRGASLLSPKSPTLSVPRGCRED  
SSHPACAKVEYAYSNDLDPGLFVESTKGSVVSRRANSIGSTSASSVPNTDDESDYHQE  
AYKESYKDRRRRAHTQAEQKRRDAIKRGYDDLQTIPTCQQQDFSIGSQKLSKAIVLQKT  
IDYIQFLHKEKKKQEEVSTLRKDVLTALKIMKVNYEQIVKAHQDNPHGEDQVSDQVKFN  
VFQGIMDSLFQSFNASISVASFQELSACVFSWIEEHCKPQTLREIVIGVLHQLKNQLY

>sp|Q9Y4U1|MMAC\_HUMAN Methylmalonic aciduria and homocystinuria type C protein OS=Homo sapiens GN=MMACHC PE=1 SV=3

MEPKVAELKQKIEDTLCPFGFEVYPFQVAWYNELLPPAFHLPLPGPTLAFLVLSTPAMFD  
RALKPFLQSCHLRMLTDPVDQCVAYHLGRVRESLPELQIEIIADYEVHPNRRPKILAQTA  
AHVAGAAAYYQQRQDEADPWGNQRISGVCIHPRFGGWFAIRGVVLLPGIEVPDLPPRKPH  
DCVPTRADRIALLEGFNHWRDWTYRDAVTPQERYSEEKAYFSTPPAQRALLGLAQPS  
EKPSSPSPDLPFTTPAPKKPGNPSRARSWLSPRVSPASP

>sp|Q6ZRQ5|MMS22\_HUMAN Protein MMS22-like OS=Homo sapiens GN=MMS22L PE=1 SV=3

MENCSAASTFLTDSLELELGTWECKPPYFSCAVDNRRGGGKHFSGESYLCSGALKRLILNL  
DPLPTNFEDTLEIFGIQWVTETALVNSSRELFHLFRQQLYNLETLLQSSCDFGKVSTLH  
CKADNIRQQCVLFLHYVKVIFRYLKVQNAESHVPVHPYEALAEALPSVLIDELHGLLLY  
IGHLSELPSVNIGAFVNQNIKLFPPSWHLLHLHLDIHWLVLEILYMLGEKLGKQVVYGHQ  
FMNLASDNLTNISLFEEHCETLLCDLISLSLNRYDKVRSSESLMSDQCPCLCIKELWVLL  
IHLLDHRKSWFVSEFWNWLKLLKTLEKSSDRRRSSMPVIQSRDPLGFSWWIITHVAS  
FYKFDRHGVPDEMRRKVESNWNFVEELLKKSISVQGVILEEQLRMYLHCCLTLCDFWEPNI

AIVTILWEYYSKNLNSSFSISWLPFKGLANTMKSPLSMLEMVKTCCCDKQDQELYKSSSS  
YTIFLCILAKVVKKAMKSNPHPWKQVKGRIYSKFHQKRMEELTEVGLQNFFSLFLLAA  
VAEVEDVASHVLDLLNFKPAFVTSQRALIWKGHMAFLMYAQKNLDIGVLAEKFSACFR  
EKAKEFLVSKNEEMVQRQTIWTLLSIYIDGVQEVFETSYCLYPSHEKLLNDGFSMLLRAC  
RESELRTVLSFLQAVLARIRSMHQQLCQELQRDNVDLQVQSSLSAKERHLAAVASALWRH  
FFSFLKSQRMSQVVPFSQLADAAADFTLLAMDMPSTAPSDFPQPVISIIQLFGWDDIIC  
PQVVARYLSHVLQNSTLCEALSHSGYVSFQALTVRSWIRCVLQMYIKNLSGPDDLLIDKN  
LEEAVEKEYMKQLVKLTRLLFNLSEVKISFKAQVEYLSISEDPKKALVRFFEAVGVTYG  
NVQTLSDKSAMVTKSLEYLGEVLKYIKPYLGKKVFSAGLQTYGMMGILVKSQAQIFATS  
KAQKLLFRIIDCLLPHAVLQKEKELPAPMLSAIQKSLPLYLQGMCIQCCSQNPAYLN  
QLLGNVIEQYIGRFLPASPYVSDLGQHPVLLALRNTATIPPISSLKKCIVQVIRKSYLEY  
KGSSPPPRLASILAFILQLFKETNTDIYEVELLLPGILKCLVLVSEPQVKRLATENLQYM  
VKACQVGSEEEPSSQLTSVFRQFIQDYGMRYYYQVYSILETVATLDQQVVIHLISTLTQS  
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>sp|Q7L9L4|MOB1B\_HUMAN MOB kinase activator 1B OS=Homo sapiens GN=MOB1B PE=1 SV=3

MSFLFGSRSSKTFKPKKNIPEGSHQYELLKHAEATLGSGNLRMAVMLPEGEDLNEWVAVN  
TVDFFNQINMLYGTITDFCTEESCPVMSAGPKYEHWADGTNIKKPIKCSAPKYIDYLMT  
WVQDQLDDETLFPSKIGVPFPKNFMSVAKTILKRLFRVYAHYHQHFDPIQLQEEAHLN  
TSFKHFIFFVQEFNLIDRRELAPLQELIEKLTSKDR

>sp|Q96PD6|MOGT1\_HUMAN 2-acylglycerol 0-acyltransferase 1 OS=Homo sapiens GN=MOGAT1 PE=2  
SV=2

MKVEFAPLNIQLARRLQTVAVLQWVLKYLLGPMSIGITVMLIIHNYLFLYIPYLMWLYF  
DWHTPERGRRSSWIKNWTLWKHKDYFPIHLIKTQDLDP SHNYIFGFHPHGIMAVGAFG  
NFSVNYSDFKDLFPGFSTYLVHVLPLWFWCPVFREYVMSVGLVSVSKSVSYMVSKEGGGN  
ISVIVLGGAKESLDAHPGKFTLFIQRKGFVKIALTHGASLVPVVSFGENELFKQTDNPE  
GSWIRTQNKQLKIMGFALPLFHARGVFQYNFGLMTYRKAIHTTVVGRPIPVRQTLNPTQE  
QIEELHQTYMEELRKLFEEHKGKYGIPHEHETLVLK

>sp|Q71F56|MD13L\_HUMAN Mediator of RNA polymerase II transcription subunit 13-like OS=Homo  
sapiens GN=MED13L PE=1 SV=1

MTAAANWVANGASLEDCHSNLFSLAELTGIKWRRYNFGGHGDCGPIISAPAQDDPILLSF  
IRCLQANLLCVWRRDVKPDCKELWIFWWGDEPNLVGVIHHELQVVEEGLWENGLSYECRT  
LLFKAIHNLRLERCLMDKNFVRIGKWFVRPYEKDEKPVNKSEHLSCAFTFFLHGESNVCTS  
VEIAQHQP IYL INEEHIHMAQSSPAPFQVLVSPYGLNGTLTGQAYKMSDPATRKLIEEWQ  
YFYPMVLKKKEESKEEDELGYDDDFPVAVEVIVGGVRMVYPSAFVLISQNDIPVPQSVAS  
AGGHIAVGQQGLGSVKDPSNCGMPLTPPTSPEQAILGESGGMQSAASHLVSQDGGMITMH  
SPKRSGKIPPKLHNHMHVRVWKECILNRTQSKRSQMSTPTLEEPASNPATWDFVDPTQR  
VSCSCSRHKLKRCAGVGNRPPTVSQPGFSAGPSSSSSLPPASSKHKAERQEKGDKLQ  
KRPLIPFHRPSVAEELCMEQDTPGQKLGLAGIDSSLEVSSSRKYDKQMAVPSRNTSKQM  
NLNPMDSPHSPISPLPPTLSPQPRGQETESLDPPSVPVNPALYNGLELQQLSTLDDRTV  
LVGQRLPLMAEVSETALYCGIRPSNPESSEKWWHSYRLPPSDDAEFRPPELQGERCDAKM  
EVNSESTALQRLLAQPNKRFKIWQDKQPQLPLHFLDPLPLSQPGDSLGEVNDPYTFED  
GDIKYIFTANKKCKQGTEKDSLKNKSEDFGTQDVTPGHSTPVPDGKNAMSISSATK  
TDVRQDNAAGRAGSSSLTQVTDLAPSLHDLNIFDNSDDDELGAVSPALRSSKMPAVGTE  
DRPLGKDGRAAVPYPTVADLQRMFPTPPSLEQHPAFSPVMNYKDGISSETVTALGMMES



PMVSMVSTQLTEFKMEVEDGLGSPKPEEIKDFS YVHKVPSFQPFVGS SMFAPLKMLPSHC  
LLPLKIPDACLFRPSWAIPPKEQLPMPAATFIRDGYNNVPSVGLADPDYLNTPQMNT  
PVTLSNAAPASNSGAGVLPSPATPRFSVPTPRTPRTPRTPRGGGTASGQGSVKYDSTDQG  
SPASTPSTTRPLNSVEPATMQPIEAHSYVTLILSDSVMNIFKDRNFDSCCICACNMNI  
KGADVGLYIPDSSNEDQYRCTCGFSAIMNRKLGYN SGLFLEDELDFGKNSDIGQAAERR  
LMMCQSTFLPQVEGTKKPQEPPISLLLLLNQHTQPFASLNFLDYISSNNRQTLPCVSWS  
YDRVQADNNDYWTECFNALEQGRQYVDNPTGGKVDEALVRSATVHSWPHSNVLDISMLSS  
QDVVRMLLSLQPFLQDAIQKKRTGRTWENIQHVQGPLTWQQFHKMAGRGTYGSEESPEPL  
PIPTLLVG YDKDFLTISPFSLPFWERLLDPYGGHRDVAYIVVCPENEALLEGAKTFFRD  
LSAVYEMCRLGQHKPICKVLRD GIMRVGKTVAQKLTDELVSEWFNQPWSGEENDNHSRLK  
LYAQVCRHHLAPYLATLQLDSSLLIPPKYQTPAAAQGGATPGNAGPLAPNGSAAPPAGS  
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ISADRTQGNIGCGGDTDPGQSSSQSDGQESVTERERIGIPTEPDSADSHAHPPAVVIY  
MVDPFYAAEEDSTSGNFWLLSLMRCYTEMLDNLPEHMRNSFILQIVPCQYMLQTMKDEQ  
VFYIQYLKSMAFSVYQCRRPLPTQIHISLTGFGPAASIEMTLKNPERPSP IQLYSPPF  
ILAPIKDKQTELGETFGEASQKYNVLFVGYCLSHDQRWLLASCTDLHGELLETCV VNIAL  
PNRSTRSKVSARKIGLQKLWEWCIGIVQMTSLPWRVVI GRLGRLGHGELKDW SILLGECS  
LQTISKKLKDVCRMCGISAADSPSILSACL VAMEPQGSFVMPDAVTMGSVFGRSTALNM  
QSSQLNTPQDASCTHILVFPTSSTIQVAPANYPNEDGFSPNDDMFVDLPFPDDMDNDIG  
ILMTGNLHSSPNSSPVSPGSPSIGVGS HFQHSRSQGERLLSREAPEELKQQLALGYF  
VSTAKAENLPQFWSSCPQAQNCPLFLKASLHHHISVAQTDELLPARNSQRVPHPLDSK  
TTS DVLRFVLEQYNALSWLTCNPATQDRTSCLPVHFVVL TQLYN AIMN IL

>sp|A1L020|MEX3A\_HUMAN RNA-binding protein MEX3A OS=Homo sapiens GN=MEX3A PE=1 SV=1

MPSLVVSGIMERNGFGELGCGFGGSAKDRG LLEDERALQLALDQLCLLGLGEPPAPTAGE  
DGGGGGGGAPAQPAAPPQAPPPPPAAPPAAPTAAPAAQTPQPPTAPKGASDAKLCALYK  
EAELRLKGSSNTTECVPVPTSEHVAEIVGRQGCKIKALRAKTNTYIKTPVRGEEPVMVT  
GRREDVATARREIISAAEHFSMIRASRNKSGAAGVAPALPGQVTIRVRVPYRVVGLVVG  
PKGATIKRIQQQTNTYIITPSRDRDPVFEITGAPGNVERAREEIEITHIAVRTGKILEYNN  
ENDFLAGSPDAAIDSRYSDAWRVHQPGCKPLSTFRQNSLGCIGECGVD SGFEAPRLGEQG  
GDFGYGGYLFPGYGVGKQDVYGVVAETSPPLWAGQENATPTSVLFSSASSSSSSSAKARA  
GPPGAHRSPATSAGPELAGLPRRPPGEPLQGF SKLGGGGLRSPGGGRDCMVCFESEVTAA  
LVPCGHNLFCECAVRICERTDPECPVCHITATQAIRIFS

>sp|Q14728|MFSD10\_HUMAN Major facilitator superfamily domain-containing protein 10 OS=Homo sapiens GN=MFSD10 PE=1 SV=1

MGWGGGGGCTPRPPIHQPPERRVTVVFLG LLLDLLAFTLLLPLLPGLLESHGRAHDPL  
YGSWQGGVDWFATAIGMPVEKRYNSVLFGLIGSAF SVLQFLCAPLTGATSDCLGRRPVM  
LLCLMGVATSYAVWATSRSF AAFSLRLIGGISKGNVSLSTAIVADLGSPLARSQGM A VI  
GVAFSLGFTLG PMLGASLPLEMAPWFALLFAASDLLFIFCFLPETLPLEKRAPSIALGFR  
DAADLLSPLALLRFSAVARGQDPPSGDR LSSLRRLGLVYFLYLF LFSGLEYTLSFLTHQR  
FQFSSLQQGKMFFLIGLTMATIQGAYARRIHPGGEVA AVKRALLLLVP AFLLIGWGRSLP  
VLGLG LLLYSFAAAVVVPC LSSVAGY GSPGQKGTVMGTLRSLGALARAAGPLVAASVYW  
LAGAQACFTTWSGLFLLPFFLLQKLSYPAQTLKAE

>sp|Q9H3U5|MFSD1\_HUMAN Major facilitator superfamily domain-containing protein 1 OS=Homo sapiens GN=MFSD1 PE=2 SV=2

MEEDEEARALLAGGPDEADRGAPAAPGALPALCDPSRLAHRLLVLLLMCFLGFGSYFCY  
DNPAALQTQVKRDMQVNTTKFMLLYAWYSWPNVLCFFGGFLIDRVFGIRWGTIIFSCFV  
CIGQVVFALGGIFNAFWLMEFGRFVFGIGGESLAVAQNTYAVSWFKGKELNLVFGLQLSM  
ARIGSTVNMNLMGWLYSKIEALLGSAGHTTLGITLMIGGITCILSLICALALAYLDQRAE  
RILHKEQGKTGEVIKLTVDKDFSLPLWLIFIICVCYYVAVFPFIGLGKVFTEKFGFSSQ  
AASAINSVVYVISAPMSPVFGLLVDTKGKNIWVLCVAATLVSHMMLAFTMWNPWIAMC  
LLGLSYSLLACALWPMVAFVVEPHQLGTAYGFMQSIQNLGLAIISIIAGMILDSRGYLFL  
EVFFIACVSLSLSVVLLYLVNRAQGGNLNYSARQREEIKFSHTE

>sp|Q8NHS3|MFSD8\_HUMAN Major facilitator superfamily domain-containing protein 8 OS=Homo sapiens GN=MFSD8 PE=1 SV=1

MAGLRNESEQEPLLGDTPGSREWDILETEEHYKSRWRSIRILYLTMFLSSVGFVVMMSI  
WPYLQKIDPTADTSFLGWVIAASYSLGQMVASPIFGLWSNYRPRKEPLIVSILISVAANCL  
YAYLHIPASHNKYYMLVARGLLGIGAGNAVVRSYTAGATSLQERTSSMANISMCQALGF  
ILGPVFQTCFTFLGEKGVTDWIKLQINMYTTPVLLSAFLGILNIILILAILREHRVDDS  
GRQCKSINFEEASTDEAQVPQGNIDQVAVVAINVLFVTLFIFALFETIITPLTMDMYAW  
TQEQAVALYNGIILAALGVEAVVIFLGVKLLSKKIGERAILLGGILVWVGFFILLPWGNQ  
FPKIQWEDLHNNSIPNTTFGEIIIGLWKSPMEDDNERPTGCSIEQAWCLYTPVIHLAQFL  
TSAVLIGLGPVCNLSYTLYSKILGPKPQGVYMGWLTASGSGARILGPMFISQVYAHWG  
PRWAFSLVCGIIVLTITLLGVVYKRLIALSVRYGRIQE

>sp|Q09327|MGAT3\_HUMAN Beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase OS=Homo sapiens GN=MGAT3 PE=2 SV=3

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SPEGGPDLLRTPLYSHSPLLQLPPSKAAEELHRVDLVLPEDTTEYFVRTKAGGVCFKP  
GTKMLERPPPGRPEEKPEGANGSSARRPPRYLLSARERTGGRGARRKWVECCLPGWHGP  
SCGVPTVVQYSNLPKTERLVPREVPRRVINAINVNEFDLLDVRFHGLGDVVDAFVVCES  
NFTAYGEPRPLKFREMLTNGTFEYIRHKVLYVFLDHFPPGGRQDGIADDYLRTFLTQDG  
VSRLRNLRPDDVFIIDDADEIPARDGVFLKLYDGWTEPFAFHRKSLYGFFWKQPGTLE  
VVSGCTVDMLQAVYGLDGIRLRRRQYYTMPNFRQYENRTGHILVQWSLGSPLHFAGWHCS  
WCFTPEGIYFKLVSAQNGDFPRWGDYEDKRDLNYIRGLIRTGGWFDGTQQEYPPADPSEH  
MYAPKYLLKNYDRFHYLLDNPYQEPRSTAAGGWRHRGPEGRPPARGKLDEAEV

>sp|O14880|MGST3\_HUMAN Microsomal glutathione S-transferase 3 OS=Homo sapiens GN=MGST3 PE=1 SV=1

MAVLSKEYGFVLLTGAASFIMVAHLAINVSKARKKYKVEYPIMYSTDPENGHIFNCIQRA  
HQNTLEVYPPFLFFLAVGGVYHPRIASGLGLAWIVGRVLYAYGYTGEPSKRSRGALGSI  
ALLGLVGTTVCSAFQHLGWKSGLGSGPKCCH

>sp|Q3V5L5|MGT5B\_HUMAN Alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B OS=Homo sapiens GN=MGAT5B PE=1 SV=2

MITVNPDGKIMVRRCLVTLRPFRFLVVGIGFFTLTCLMTSLGGQFSARRLGDSPFTIRTE  
VMGGPESRGVLRKMSDLLELMVKRMDALARLENSSELHRAGGDLHFPADRMPPGAGLMER  
IQAIAQNVSDIAVKVDQILRHSLLLHVKVSEGRRDQCEAPSDPKFPDCSGKVEWMRARWT  
SDPCYAFFGVDGTECSFLIYLSEVEWFCPLPWNRQTAAQRAKPLPKVQAVFRSNLSHL  
LDLMGSGKESLIFMKKRTKRLTAQWALAAQRLAQKLGTQRDQKQILVHIGFLTEESGDV  
FSRVLKGGPLGEMVQWADILTALYVLGHGLRVTVSLKELQSNLGVPPGRGSCPLTMLP  
FDLIYTDYHGLQQMKRHMGLSFKKYRCRIRVIDTFGTPEAYNHEEYATLHGYRTNWGYWN

LNPQFMTMFPHTPDNSFMGFVSEELNETEKRLIKGGKASNMAVVGKEASIWKLQGKEK  
FLGILNKYMEIHGTVYYESQRPPEVPAFVKNHGLLPQPEFQQLLRKAKLFIGFGFPYEGP  
APLEAIANGCIFLQSRFSPPHSSLNHEFFRGKPTSREVFSSQHPYAENFIGKPHVWTVDYN  
NSEEFEEAIIKAIMRTQVDPYLPYEYTCGMLERIHAYIQHQDFCRAPDPALPEAHAPQSP  
FVLAPNATHLEWARNTSLAPGAWPPAHALRAWLAVPGRACDTCLDHGLICEPSFFPFLN  
SQDAFLKLQVPCDSTESEMNLYPFAFAQPGQECYLQKEPLLFSCAGSNTKYRRLCPCRDF  
RKGQVALCQGCL

>sp|Q96PC5|MIA2\_HUMAN Melanoma inhibitory activity protein 2 OS=Homo sapiens GN=MIA2 PE=1  
SV=4

MAKFGVHRILLALISLTKCLESTKLLADLKKCGDLECEALINRVSAMRDYRGPDCRYLNF  
TKGEEISVYVKLAGEREDLWAGSKGKEFGYFPRDAVQIEEVFISEEIQMSTKESDFLCLL  
GVSYTFDNEDSELNGDYGENIYPYEEDKDEKSSIYESDFQIEPGFYATYESTLFEDQVPA  
LEAPEDIGSTSESKDWEEVVVESMEQDRIPEVHVPPSSAVSGVKEWFGLGGEQAEEKAFE  
SVIEPVQESSFRSRKIAVEDENDLEELNNGEPQTEHQESESSEIDSVPKTQSELASESEH  
IPKPQSTGWFGGGFTSYLGFGEDEDTGLELIAEESNPPLQDFPNSISSDKEATVPCTEILT  
EKKDTITNDSLCLKPSWFDGFGFAILGFAYAKEDKIMLDDRKNEDGGADEHEHPLTSELD  
PEKEQEIETIKI IETEDQIDKKPVSEKTDESDTIPYLKKFLYNFDNPWNFNQNPKETELP  
FPKQILDQNNVIENEETGEFSIDNYPTDNTKVMIFKSSYSLSDMVSNIELPTRIHIEEVYF  
EPSSSKSDSENSKPSVDTEGPALVEIDRSVENTLLNSQMVSTDNSLSSQNYISQKEDASE  
FQILKYLQFQIDVYDFMNSAFSPVILTERVVAALPEGMRPDSNLYGFPWELVICAADVGF  
FAVLFFLWRSFRSVRSRLYVGREKKLALMLSGLIEEKSLLKESLQKEYEGYEVESSL  
KDASFEKEATEAQSLATCEKLNRSNSELEDEILCLEKELKEEKSXHSEQDELMADISKR  
IQSLEDESKSLKSQVAEAKMTFKIFQMNEERLKIATKDALNENSQLQESQKQLQEAQVW  
KEQVSELNKQKVTTFEDSKVHAEQVLNDKESHKTLTERLLKMKDWAAMLGEDITDDDNLE  
LEMNSESENGAYLDNPPKGALKLIHAAKLNASLKTLEGERNQIYIQLSEVDKTKHEELTE  
HIKNLQTEQASLQSENTHFENENQKLQKLVMTELYQENEMKLHRKLTVEENYRLEKEE  
KLSKVDEKISHATEELETYRKRAKDLEELERTIHSYQGQIISHEKKAHDNWLAAARNAER  
NLNDRKENAHRNQLTETELKFELLEKDPYALDVPNTAFGREHSPYGPSPLGWPSSETR  
AFLSPPTLLEGLRLSPLLPGGGGRGSRGPNLDHQITNERGESSCDRLTDPHRAPSDT  
GSLSPWDQDRMMFPPPGQSYPDALPPQRQDRFCNSGRLSGPAELRSFNMPSLDKMD  
GSMPEMESSRNDTKDDLGNLNPDDSLPAENEATGPGFVPPPLAPIRGPLFPVDARGPF  
LRRGPPFPFPPGAMFGASRDYFPPGDFGPPPPAPFAMRNVYPPRGFPYLPVRPGFFPP  
PPHSEGRSEFPSGLIPPSNEPATEHPEPQET

>sp|Q86YT6|MIB1\_HUMAN E3 ubiquitin-protein ligase MIB1 OS=Homo sapiens GN=MIB1 PE=1 SV=1

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RCSGAYDLRILDSAPTGIKHDGTMCDTCRQQPIIGIRWKCAECTNYDLCTVCYHGDKHHL  
RHRFYRITTPGSERVLLSRRKSKKITARGIFAGARVVRGVDWQWEDQDGGNGRRGKVTE  
IQDWSASSPHSAAYVLWDNGAKNLYRVGFEGMSDLKCVQDAKGSFYRDHCPVLGEQNGN  
RNPGLLQIGDLVNIDLDLEIVQSLQHGHHGGWTDGMFETLTTTGTVCIDEDHDIVVQYPS  
GNRWTFNPAVLTKANIVRSGDAAQGAEGGTSQFQVGDVQVCYDLERIKLLQRGHGEWAE  
AMLPTLGKVGVRVQIYSDSDLKVEVCGTSWTYNPAAVSKVASAGSAISNASGERLSQLLK  
KLFETQESGDLNEELVKAAANGDVAKVEDLLKRPDQVNGQCAGHTAMQAASQNGHVDIL  
KLLKQNVQVDAEDKGDRAVHHAAGFDEGAVIEVLHRGSADLNARNKRRQTPLHIAVVK  
GHLQVVKTLDFGCHPSLQDSEGDTPHDAISKRRDDILAVLLEAGADVTITNNGFNAL

HHAALRGNPSAMRVLLSKLPRPWIVDEKKDDGYTALHLAALNNHVEVAELLVHQGNANLD  
IQNVNQQTALHLAVERQHTQIVRLLVRAGAKLDIQDKDGTPLHEALRHHTLSQLRQLQD  
MQDVGKVDAAWEPSKNTLIMGLGTQGAEKSAASIACFLAANGADLSIRNKKGQSPLDLC  
PDPNLCKALAKCHKEKVSGQVGSRSPSMISNDSETLEECMVCSDMKRDTLFGPCGHIATC  
SLCSPRVKKCLICKEQVQSRTKIEECVVCSDKKA AVLFP CGHMCACENCANLMKKCVQC  
RAVVERRVPFIMCCGGKSSSEDATDDISSGNIPVLQDKDNTNVNADVQKLQQQLQDIKEQ  
TMCPVCLDRLKNMIFLCGHGTCQLCGDRMSECPICRKAIEERRILLY

>sp|094851|MICA2\_HUMAN Protein-methionine sulfoxide oxidase MICAL2 OS=Homo sapiens  
GN=MICAL2 PE=1 SV=1

MGENEDEKQAQAGQVFENFVQASTCKGTLQAFNILTRHLDLDPLDHRNFYSKLSKSVTTW  
KAKALWYKLDKRGSHKEYKRGKSCTNTKCLIVGGGPGCLRTAIELAYLGAKVVVVEKRDS  
FSRNNVLHLWPFTIHDRLGLGAKKFYGFKFCAGSIDHISIRQLQLILFKVALMLGVEIHVN  
VEFVKVLEPPEDQENQKIGWRAEFLPTDHSLSSEFEFDV IIGADGRRNTLEGFRRKEFRGK  
LAIAITANFINRNSTAEAKVEEISGVAFIFNQKFFQDLKEETGIDLENIVYKDCETHYFV  
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YGQPDVAMFDFTCMYASENAALVRERQAHQLLVALVGDLSLEPFWPMGTGCARGFLAAFD  
TAWMVKSWNQGTPELELLAERESLYRLLPQTTPENINKNFEQYTLDPGTRYPNLNSHCVR  
PHQVKHLYITKELEHYPLERLGSVRRSVNLSRKESDIRPSKLLTWCQQQTEGYQHVNVD  
LTTSWRSGLALCAIIHRFRPELINFDSLNEDDAVENNQLAFDVAEREFGIPPVTTGKEMA  
SAQEPDKLSMVMYLSKFYELFRGTPLRPVDSWRKNYGENADLSLAKSSISNNYLNLTFR  
KRTPRVDGQTGENDMNKRRLRGFTNLDEPSNFFSRSLGSNQECSKEGGNQNKVKSMAN  
QLLAKFEESTRNPSLMKQERRVSGIGKPVLCSSSGPPVHSCCPKEEATPSPSPPLKRQF  
PSVVVTGHVLRRELKQVSAGSECLSRPWRARAKSDLQLGGTENFATLPSTRPRAQALSGVL  
WRLQQVEEKILQKRAQNLANREFHTKNIKEKAAHLASMFHGHDFPNKLLSKGLSHTHPP  
SPPSRLPSPDPAASSSPSTVDSASPARKEKKSPPSGFHFHPSHLRTVHPQLTVGKVSSGIG  
AAAEVLVNLVNMNDRPKAQATSPDLES MRKSFPLNLGSDTCYFCKKRVYVMERLSAEGH  
FFHRECFRCSICATTLRLAAYTFDCDEGKFYCKPHFIHCKTNSKQRKRRAELKQQREEEA  
TWQEQAAPRRDTPTESSCAVAAIGTLEGSPPVHFSPLVHPLLG

>sp|Q7RTP6|MICA3\_HUMAN Protein-methionine sulfoxide oxidase MICAL3 OS=Homo sapiens  
GN=MICAL3 PE=1 SV=2

MEERKHETMNPAPHVLFDRFVQATTCKGTLKAFQELCDHLELKP KDYRSFYHKLKSKLNYW  
KAKALWAKLDKRGSHKDYKKGACTNTKCL IIGAGPCGLRTAIDL SLLGAKVVVIEKRDA  
FSRNNVLHLWPFTIHDRLGLGAKKFYGFKFCAGAI DHISIRQLQLILLKVALILGIEIHVN  
VEFQGLIQPPEDQENERIGWRALVHPKTHPVSEYEFEV IIGDGRRNTLEGFRRKEFRGK  
LAIAITANFINRNTTAEAKVEEISGVAFIFNQKFFQELREATGIDLENIVYKDDTHYFV  
MTAKKQSLLDKGVI LHDYADTELLSRENVDQEALLSYAREAADFSTQQQLPSLDFAINH  
YGQPDVAMFDFTCMYASENAALVREQNGHQLLVALVGDLSLEPFWPMGTGIARGFLAAMD  
SAWMVRSWSLGTSPLEVLAERESIYRLLPQTTPENVS KNFSQYSIDPVTRYPNINVNFLR  
PSQVRHLYDTGETKDIHLEMESLVNSRTTPKLTRNESVARSSKLLGWCQRQTDGYAGVNV  
TDLTMSWKSGLALCAIIHRYRPDLIDFDSLDEQNVEKNNQLAFDIAEKELGISPIMTGKE  
MASVGEPDKLSMVMYLTQFYEMFKDSLPSDDTLDLNAEEKAVLIASTRSPISFLSKLGQT  
ISRKRS PKDKKEKDL DGAGKRRKTSQSEEEA PRGHRGERPTLVSTLTDRRMDVAVGNQN  
KVKYMATQLLAKFEENAPAQSIGIRRQGS MKKEFPQNLGSDTCYFCQKRVYVMERLSAE  
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RQAEALQEVPEETQAEHNLSSVLDTGAEEDVASSSSSESEMEEEGEEEEEPRLPPSDLGG  
VPWKEAVRIHALLKGKSEEELEASKSFGPGNEEEEEEEEEEEEEEDYDEEEESSEAG  
NQRLQQVMHAADPLEIQADVHWHIREREEERMAPASESSASGAPLDENDLEEDVDSEP  
AEIEGAAEDGDPGDTGAELDDQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKL  
PASPKHQERGPSQATSPIRSPQESALLFIPVHSPSTEGPQLPPVPAATQEKSPPEERLFPE  
PLLKEKPKADAPSDLKAVHSPIRSQPVTLPARTPVSPGSPQPPVAASTPPPSPLPI  
CSQPQPSTEATVPSPTQSPIRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSLAVDEALRR  
SDLVEEFWMKSAEIRRLSLGTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLL  
KPLSIPKRLGLPKPEGEPLSLTPRSPSDRELRSAQEERRELSSSSGLGLHGSSSNMKT  
GSQSFNTSDSAMLTPSSPPPPPPGEEPATLRRKLREAEPNASVVPPLPATWMRPPRE  
PAQPPREVRKSFVESVEEIPFADDVEDTYDDKTEDSSLQEKFFTPSCWPRPEKPRHPP  
LAKENGRLPALEGTLPQKRGRLPLVSAEAKELAEERMAREKSVKSQALRDAMARQLSRM  
QQMELASGAPRPRKASSAPSQGKERRPDSPTRPTLRGSEEPTLKHEATSEEVLSPPSDSG  
GPDGSFTSSESGSKKRSSLFSPRRNKKEKSKGEGRPPEKPSSNLLEAAAKPKSLW  
KSVFSGYKKKKKKADDKSCPSTPSSGATVDSGKHRVLPVVRAELQLRRQLSFSESDLS  
SDDVLEKSSQKSRRPRTYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQIIQRQLQQ  
VEERQRRLLEERGVAVEKALRGEAGMGKKDDPKLMQEWFKLVQEKAMVRYESELMIFARE  
LELEDQRSRLQELRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQLR  
EREEDKDLEAAMLSKGFSLNWS

>sp|Q6ZW33|MICKL\_HUMAN MICAL C-terminal-like protein OS=Homo sapiens GN=MICALCL PE=1 SV=3  
MSPPKDPSPSLPLPSSSSSHSSPPSSSSTSVSGNAPDGSSPPQMTASEPLSQVSRGHPSP  
PTPNFRRRAVAQAGAPREIPLYLPHHPKPEWAEYCLVSPGEDGLSDPAEMTSDECQPAEAP  
LGDIGSNHRDPHPIWGKDRSWTGQELSPLAGEDREKSGTGARKEEGGPVLVKEKLGKK  
LVLTEQKTMLLDWNDSIPESVHLKAGERISQKSAENGRGGRVLKPVRLPLLPRAAGEPL  
PTQRGAQEKMGTPAEQAQGERNVPPPKSPLRLIANAIRRSLEPLLSNSEGKKAWAKQES  
KTLPAQACTRSFSLRKTNSNKDGDQHSPGRNQSSAFSPDPALRTHSLPNRPSKVFPALR  
SPPCSIEDVPTLLEKVSLQENFPDASKPPKKRISLFSSLRLKDKSFESFLQESRQRKDI  
RDLFGSPKRKVLPEDSAQALEKLLQPFKSTSLRQAAPPPPPPPPPPPPTAGGADSKNF  
PLRAQVTEASSASSTSSSSADEEFDPLSLQLKEKTLRRRKLEKAMKQLVKQEELKR  
LYKAQAIQRQLEEVEERQRAEQGVRLKALRGEADSGTQDEAQLQEWFKLVLEKNKL  
MRYSELLIMAQELELEDHQSRLQKLEKMLKEESQKDEKDLNEEQEVFTELMQVIEQR  
DKLVSLEEQRIREKAEDQHFESFVFSRGCQLSRT

>sp|Q9NQ66|MID51\_HUMAN Mitochondrial dynamics protein MID51 OS=Homo sapiens GN=MIEF1 PE=1  
SV=1  
MAGAGERKGGKDDNGIGTAIDFVLNARLVLGVGGAAMLGIATLAVKRMVDRAISAPTSP  
TRLSHSGKRSWEEPWNMGSPRLNRMKTGLSRSLQTLPTDSSTFDTDTCPPRPKPVAR  
KGQVDLKKSRRLMSLQEKLLTYYRNRAAIPAGEQARAKQAAVDICAELRSFLRAKLPDMP  
LRDMYLSGSLYDDLQVVTADHIQLIVPLVLEQNLWSCIPGEDTIMNVPGFVLVRRENPEY  
FPRGSSYWDRCVVGGLSPKTVADTFEKVVAGSINWPAIGSLLDYVIRPAPPPEALTLEV  
QYERDKHLFIDFLPSVTLGDTVLVAKPHRLAQYDNLWRLSLRPAETARLRALDQADSGCR  
SLCLKILKAICKSTPALGHLTASQLTNVILHLAQEEADWSPDMLADRFLQALRGLISYLE  
AGVLPSALNPKNLFAELTPPEIDELGYTLYCSLSEPEVLLQT

>sp|Q7Z3K6|MIER3\_HUMAN Mesoderm induction early response protein 3 OS=Homo sapiens  
GN=MIER3 PE=1 SV=2

MAEASFGSSSPVGLSSSEHDHFDPTAEMLVHDYDDERTLEEEEMMDEGKNFSSEIEDLEK  
EGTMPLLEDLLAFYGYEPTIPAVANSSANSSPSELADELPDMTLDKKEIAKDLLSGDDEET  
QSSADDLTPSVTSHETSDFFRPLRSNTACDGDKESEVEDVETDSGNSPEDLRKEIMIGL  
QYQAEIPPYLGEYDGNKQVYENEDQLLWCPDVVLESKVKEYLVETSLRTGSEKIMDRISA  
GTHTRDNEQALYELLKCNHNIKEAIERYCCNGKASQEGMTAWTEEECRSFEHALMLFGKD  
FHLIQKNKVRTRTVAECVAFYYMWKKSERYDYFAQQTRFGKKRYNHHPGVTDYMDRLVDE  
TEALGGTVNASALTSNRPEPIPDQQLNILNSFTASDLTALNSVATVCDPTDVNCLDDSF  
PPLGNTPRGQVNHVPVVT EELLTLPNGESDCFNLFETGFYHSELNPMNMCSEESERPAK  
RLKMGIAVPESFMNEVSVNNLGVD FENHTHHITS AKMAVSVADFGSLSANETNGFISAH  
LHQHAALHSE

>sp|Q7L4E1|MIGA2\_HUMAN Mitoguardin 2 OS=Homo sapiens GN=MIGA2 PE=1 SV=1

MAFRRAEGTSMIQALAMTVAEIPVFLYTTFGQSAFSQLRLTPGLRKVLFATALGTVALAL  
AAHQLKRRRRRKQVGP EMGGEQLGT VPLILLARKVPSVKKGYSRRVQSPSSKSNL  
SGISSIEPSKHSGSSHSVASMMAVNSSSPTAACSGLWDARGMEESLTSDGNAESLYMQG  
MELFEEALQKWEQALSVGQRGDSGSTPMPRDGLRNPETASEPLSEPESQRKEFAEKLESL  
LHRAYHLQEEFGSTFPADSMLLDLERTLMLPLTEGSLRLRADDEDLTSEDSFFSATELF  
ESLQTGDYPIPLSRPAAAYEEALQLVKEGRVPCRTLRTTELLGCYSDQDFLAKLHCVRQAF  
EGLLEDKSNQLFFGKVGRQMTGLMTKAEKSPKGFLESYEEMLSYALRPETWATTRLELE  
GRGVVCMSSFFDIVLDFILMDAFEDLENPPASVLAVLRNRWLSDFS KETALATACWSVLKA  
KRRLLMVPDGFISHFYSVSEHVSPLAFGFLGPKPQLAEVCAFFKHQIVQYLRDMFDLDN  
VRYTSLPALADDIQLSRRRSEILLGYLGVPAASSAGVNGALPRENGPLGELQ

>sp|Q8IY33|MILK2\_HUMAN MICAL-like protein 2 OS=Homo sapiens GN=MICALL2 PE=1 SV=1

MAAIRALQQWCRQQCEGYRDVNICNMTTSF RDGLAFCAILHRHRPDLINFSALKKENIYE  
NNKLAFRVAEEHLGIPALLDAEDMVALKVPDRLSILTYVSQYYNYFHGRSPIGGMAGVKR  
ASEDSEEEPSGKKAPVQAAKLPSAPARKPPLSPAQTNPVVQRRNEGAGGPPPKTDQALA  
GSLVSTCGVCGKHVHLVQRHLADGRLYHRSCFRCKQCCTLHSGAYKATGEPGTFVCTS  
HLPAAASAPKLTGLVPRQPGAMGVDSRTSCSPQKAQEANKARPSAWEPAGNSPARASV  
PAAPNPAATSATSVHVRSPARPSERLAPTPTGKVRPRVTNSSPMGWSSAAPCTAAAAS  
HPAVPPSAPDRPATPQGGGAPRAAPQTTLSSSSTSAATVDPPAWTPSASRTQQARNKF  
FQTSAVPPGTSLSGRGPTPSLVLSKDSSKEQARNFLKQALSALEEAGAPAPGRPSATAA  
VPSSQPKTEAPQASPLAKPLQSSSPRVLGLPSRMEPPAPLSTSSTSQASALPPAGRRLA  
ESSGVGRVGAGSRPKPEAPMAKGKSTTLTQDMSTSLQEGQEDGPAGWRANLKPVDRRSPA  
ERTLKPKEPRALAEPRAGEAPRKVSGSFAGSVHITLTPVRPDRTPRPASPGPSLPARSPS  
PPRRRLAVPASLDVCDNWLREPPPGQEARVQSWKEEEKPHLQGKGRPLSPANVPALP  
GETVTSPPVRLHPDYLSP EEQRLQDIERRLDALELRGVELEKRLRAAEGDDAEDSLMVD  
WFWLIHEKQLLLRQESEL MYKSQAQRLEEQLDIEGELRRLMAKPEALKSLQERRREQEL  
LEQYVSTVNDRSDIVDSLDEDLRREQEEDQMLRDMIEKLG LQRKSKFRLSKIWSPKSKS  
SPSQ

>sp|Q9NXC5|MIO\_HUMAN WD repeat-containing protein mio OS=Homo sapiens GN=MIOS PE=1 SV=2

MSGTKPDILWAPHHVD RFVVCDS ELSLYHVESTVNSELKAGSLRLSEDSAAATLLSINSDT  
PYMKCVAWYLNYP ECLLAVGQANGRVLTSLGQDHNSKFKDLIGKEFVPKHARQCNTLA  
WNPLDSNWLAAGLDKHRADFSVLIWDICSKYTPDIVPMEKVKLSAGETETTLLVTKPLYE

LGQNDACLSLCWLPRDQKLLLAGMHRNLAIFDLRNTSQKMFVNTKAVQGVTVDPYFHDRV  
ASFYEGQVAIWDLRKFEKPVLTLTEQPKPLTKVAWCPTRTGLLATLTRDSNIIRLYDMQH  
TPTPIGDETEPTIIERSVQPCDNYIASFAWHPTSQNRMI VTPNRTMSDFTVFERISLAW  
SPITSLMWACGRHLYECTEEENDNSLEKDIATKMRLRALSRYGLDTEQVWRNHILAGNED  
PQLKSLWYTLHFMKQYTEDMDQKSPGNKGS LVYAGIKSIVKSSLGMVESSRHNWSGLDKQ  
SDIQNLNEERILALQLCGWIKGTDVDVGPFLNSLVQEGEWERAAVALFNLDIRRAIQI  
LNEGASSEKGDNLNLNVVAMALSGYTDEKNSLWREMCSTLRLQLNNPYLCVMFAFLTSETG  
SYDGVLYENKVAVRDRVAFACKFLSDTQLNRYIEKLTNEMKEAGNLEGILLTGLTKDGVD  
LMESYVDRTDGVQTASYCMLQGSPLDVLKDERVQYWIENYRNLLDAWRFWHKRAEFDIHR  
SKLDPSSKPLAQVFVSCNFCGKSISYSCSAVPHQGRGFSQYGVSGSPTKSKVTSCPGCRK  
PLPRCALCLINMGTPVSSCPGGTKSDEKVDLSKDKKLAQFNNWFTWCHNCRHGGHAGHML  
SWFRDHAECPVSACTCKCMQLD TTGNLVPAETVQP

>sp|Q8IVT2|MISP\_HUMAN Mitotic interactor and substrate of PLK1 OS=Homo sapiens GN=MISP  
PE=1 SV=1

MDRVTRYPILGIPQAHRTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG  
VQRQGVSYSVHAYTGQPSRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE  
MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP  
LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA  
NGHVVPIKPQVKGVVREENKVRAVPTWASVQVDDPGSLASVESPGTPKETPIEREIRLA  
QEREADLREQRLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ  
REEDHRREGLHVGRASPDWVSEGPQGLRRALSSDSILSPAPDARAADPAPEVRKVNRI  
PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSSESGKPLST  
KQEASKPPRGCPQANRGVVRWEYFRLRPLRFAPDEPQQAQVPHVWGEVAGAPALRLQK  
SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSQNSRSSSQASGITGSYS  
VSESPFFSPIHLHSNAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH  
KNMAERWESRIYASEEDD

>sp|Q9BYG3|MKI67I\_HUMAN MKI67 FHA domain-interacting nucleolar phosphoprotein OS=Homo  
sapiens GN=NIFK PE=1 SV=1

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQ  
IFSYSQFGTVTRFRLSRSKRTGNSKGYAFVEFESEDAKIVAETMNNYLFGERLLECHF  
MPPEKVHKELFKDWNIPFKQPSYPSVKRYNRNRTLQKLRMEERFKKKERLLRKKLAKKG  
IDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGLDTPKTVDSQGPTPVCTPT  
FLERRKSQVAELNDDDKDEIVFKQPISCVKEEIQETQTPTHSRKKRRRSSNQ

>sp|Q969V6|MKL1\_HUMAN MKL/myocardin-like protein 1 OS=Homo sapiens GN=MKL1 PE=1 SV=1

MPPLKSPA AFHEQRRSLERARTEDYLKRKIRSRPERSELVRMHILEETSAEPSLQAKQLK  
LKRARLADDLNEKIAQRPGPMELVEKNILPVESSLKEAIIVGQVNYPKVADSSSFDEDSS  
DALSP EQPASHESQGSVPSPLEARVSEPLLSATSASPTQVVSQ LPMGRDSREMLFLAEQP  
PLPPPPLLPPLSTNGTTIPTAKSTPTLIKSSQPKSASEKSQRSKAKELKPKVKKLKYHQ  
YIPPDQKQDRGAPMDSSYAKILQQQQLFLQLQLNQQQQQHHNYQAILPAPPKSAGEAL  
GSSGTPPVRSLSSTNSSSSSGAPGPCGLARQNSTSLTGKPGALPANLDDMKVAELKQELK  
LRLSPVSGTKTELIERLAYQDQISPVP GAKAPAATSI LHKAGEVVVAFPAARLSTGPA  
LVAAGLAPAEVVVATVASSGVVKFGSTGSTPPVSPTPERSLLSTGDENSTPGDTFGEMV  
TSPLTQLTLQASPLQILVKEEGPRAGSCCLSPGGRAELEGRDKDQMLQE KDKQIEALTRM  
LRQKQQLVERLKLQLEQE KRAQQPAPAPAPLGTVPVKQENSFSSCQLSQQPLGPAHPFNPS

LAAPATNHIDPCAVAPGPPSVVVKQEALQPEPEVPAPQLLLGPQGPSLIKGVAPPTLIT  
DSTGTHLVLTVTNKNADSPGLSSGSPQQPSSQPGSPAPAPSAQMDLEHPLQPLFGTPTSL  
LKKEPPGYEEAMSQPKQQENGSSSQMDDLFDILIQSGEISADFKPEPPSLPGKEKPSPK  
TVCGSPLAAQPSAELPQAAPPPGSPSLPGRLEDFLESSTGLPLLTSGHDGPEPLSLI  
DDLHSQMLSSTAILDHPPSPMDTSELHFVPEPSSTMGLDLADGHLDSMDWLELSSGGPVL  
SLAPLSTTAPSLFSTDFLDGHDLQLHWDSC

>sp|Q5HYA8|MKS3\_HUMAN Meckelin OS=Homo sapiens GN=TMEM67 PE=1 SV=2

MATRGAGVAMAVWSLLSARAVTAFLLLFLPRFLQAQTSFPPFQQPEKCDNNQYFDISAL  
SCVPCGANQRQDARGTSCVCLPGFQMISNNGGPAIICKKCPENMKGVTEGWNICSPSD  
LTAEGKCHCPIGHILVERDINGTLLSQATCELCDCGNENSMVVALGDRVCVRCEPTVNT  
SRSCACSEPNILTGGLCFSSTGNFPLRRISAARYGEVGMSTSEWFAKYLQSSAAACWVY  
ANLTSCQALGNMCMNMNSYDFATFDACGLFQFIFENTAGLSTVHSISFWRQNLPLWLYG  
DQLGLAPQVLSSTSLPTNFSFKGENQNTKLKFVAASYDIRGNFLKWQTLEGGVLQLCPDT  
ETRLNAAYSFGTTYQQNCEIPIISKILIDFPTPIFYDVYLEYTDENQHQQYILAVPVLNLNL  
QHNKIFVNQDSNSGKWLTRRIFLVDVSGRENDLGTQPRVIRVATQISLSVHLPNTIN  
GNIYPLITIAYSIDIDIKDANSQSVKVSFSVTYEMDHGEAHVQTDIALGVLGGLAVLASL  
LKTAGWKRRIGSPMIDLQTVVKFLVYYAGDLANVFFIITVGTGLYWLIFFAKQKSVSVLL  
PMPIQEERFVTYVGCAFALKALQFLHKLISQITIDVFFIDWERPKGKVLKAVEGEGGVR  
ATVPVSIWRTYFVANEWNEIQTVRKINSLFQVLTVLFFLEVVGFKNLALMDSSSSLSRNP  
PSYIAPYSCILRYAVSAALWLAIGIIQVVFVAVFYERFIEDKIRQFVDLCSMSNISVFL  
SHKCFGYIYHGRSVHGHADTNMEEMNMLKREAENLCSQRGLVPNTDGGTFEIAISNQMR  
QHYDRIHETLIRKNGPARLLSSASTFEQSIKAYHMMNKFLGSFIDHVKEMDYFIKDKL  
LLERILGMEFMPEMEKSIYFNDEGYSSSVLYYGNEATLLIFDILLFCVVDLACQNFILA  
SFLTYLQQEIFRYIRNTVGQKNLASKTLVDQRFLI

>sp|Q5VWP3|MLIP\_HUMAN Muscular LMNA-interacting protein OS=Homo sapiens GN=MLIP PE=1 SV=3

MELEKREKRSLLNKNLEELTVSAGGSEAKPLIFTFVPTVRRLPTHTQLADTSKFLVKIP  
EESDKSPETVNRKSNLYTLNAGSQQERDQAKLTCPEVSGTILQEREFANKLQGMQ  
QSDLFKAEYVLIVDESEGEDEAASRKVEQGPPGGIGTAAVRPKSLAIISSSLVSDVVRPKTQ  
GTDLKTSSHPPEMLHGMAPPQQKHGQQYKTKSSYKAFAAIPTNTLLLEQKALDEPAKTESVS  
KDNTLEPPVELYFPAQLRQQTEELCATIDKVLQDSLSMHSSDSPSRSPKTLGSDTVKTP  
TTLPRAAGRETKYANLSSPSSTVSESQTLKPGVIRPVVKSRIKKKEEEVYEPNPFISKY  
LEDNSDLFSEQDVTVPKPVSLHPLYQTKLYPPAKSLLHPQTLSHADCLAPGPFSLHLSFS  
LSDEQENSHTLLSHNACNKLSPMVAIPEHEALDSKEQ

>sp|Q8NB16|MLKL\_HUMAN Mixed lineage kinase domain-like protein OS=Homo sapiens GN=MLKL  
PE=1 SV=1

MENLKHIITLGQVIHCRCEEMKYCKKQCRRLGHRVLGLIKPLEMLQDQGKRSVPSEKLT  
AMNRFKAALEEANGEIEKFSNRSNICRFLTASQDKILFKDVNRKLSDVWKESSLQVEQ  
RMPVSPISQGASWAQEDQDQADEDRRAFQMLRRDNEKIEASLRRLINMKEIKETLRQYL  
PPKCMQEIPQEQIKEIKKEQLSGSPWILLRENEVSTLYKGEYHRAPVAIKVFKKLQAGSI  
AIVRQTFNKEIKTMKFESPNIILRIFGICIDETVTPPQFSIVMEYCELGTLRELLDREKD  
LTLGKRMVLVLGAARGLYRLHHSEAPELHGKIRSSNFLVTQGYQVKLAGFELRKTQTSMS  
LGTREKTRDVKSTAYLSPQELDVFYQYDVKSEIYSFGIVLWEIATGDIPFQGCNSEKI  
RKLVAVKRQQEPLGEDCPSELREIIDECAHDPSVRPSVDEILKKLSTFSK



>sp|Q8IVH4|MMAA\_HUMAN Methylmalonic aciduria type A protein, mitochondrial OS=Homo sapiens GN=MMAA PE=1 SV=1

MPMLLPHPHQHFLKGLLRAPFRCYHFIHSSSTHLGSGIPCAQPFNSLGLHCTKWMLLSDG  
LKRKLCVQTTLKDHTEGLSDEKQRFVDKLYTGLIQGQRACLAEAITLVESTHSRKKELAQ  
VLLQKVLLYHREQEESNKGKPLAFRVGLSGPPGAGKSTFIEYFGKMLTERGHKLSVLAVD  
PSSCTSGGSLLGDKTRMTELSRDMNAYIRPSPTRGTLGGVTRTTNEAILLCEGAGYDIIL  
IETVGVGQSEFAVADMVDMFVLLPPAGGDELQGIKRGIIEMADLVAVTKSDGDLIVPAR  
RIQAEYVSALKLLRKRSQVWPKVIRISARSGEGISEMWDKMKDFQDLMLASGELTAKRR  
KQKQVMMWNLIQESVLEHFRTHPTVREQIPLLEQKVLIGALSPGLAADFLLKAFKSRD

>sp|Q9H3L0|MMAD\_HUMAN Methylmalonic aciduria and homocystinuria type D protein, mitochondrial OS=Homo sapiens GN=MMADHC PE=1 SV=2

MANVLCNRRARLSYLPFGCSLVKRNVNPKAFSTAGSSGSDSHVAAAPPDICSRTVWPDE  
TMGPFQPDQRFQLPGNIGFDCHLNGTASQKKSLSVHKTLPDVLAEPSSERHEFVMAQYV  
NEFQGNDAPEQEINSAETYFESARVECAIQTCELLRKDFESLPFEVANGKLMILTVTQ  
KTKNDMTVWSEEVEIEREVLLKFIINGAKEICYALRAEGYWADFIDPSSGLAFFGPYTNN  
TLFETDERYRHLGFSVDDLGCCKVIRHSLWGTHVVVGSIFTNATPD SHIMKKLSGN

>sp|Q96EN8|MOCOS\_HUMAN Molybdenum cofactor sulfurase OS=Homo sapiens GN=MOCOS PE=1 SV=2

MAGAAAESGRELWTFAGSRDPSAPRLAYGYGPGSLRELRAREFSRLAGTVYLDHAGATLF  
SQSQLESFTSDLMENTYGNPHSQNISSKLTHDVEQVRYRILAHFHTTAEDYTVIFTAGS  
TAALKLVAAEAFWPWSQGPESGSRFCYLTDSHTSVVGMNRVTMAINVISTPVRPEDLWSA  
EERSASASNPDCQLPHLFCYPAQSNFSGVRYPLSWIEEVKSGRLHPVSTPGKWFVLLDAA  
SYVSTSPLDLSAHQADFVPISFYKIFGFPTGLGALLVHNRAAPLLRKTYFGGGTASAYLA  
GEDFYIPRQSVARFEDGTISFLDVIALKHGFDTLERLTGGMENIKQHTFTLAQYTYVAL  
SSLQYPNGAPVVRIYSDSEFSSPEVQGPIINFNVLDDKGNIIIGYSQVDKMASLYNIHLRT  
GCFCNTGACQRHLGISNEMVRKHFGAGHVCGDNMDLIDGQPTGSVRISFGYMSTLDDVQA  
FLRFIIDTRLHSSGDWPVPQAHADTGETGAPSADSQADVIPAVMGRRSLSPQEDALTGSR  
VWNNSSTVNAVVPVPPCDVARTQPTPSEKAAGVLEGALGPHVVTNLYLYPIKSCAAFEV  
TRWPVGNQGLLYDRSWMVNVHNGVCLSQKQEPRLCLIQPFIDLRQIMVIKAKGMEPIEV  
PLENSERTQIRQSRVCADRVSTYDCGEKISSWLSTFFGRPCHLIKSSNSQRNAKKKHG  
KDQLPGTMATLSLVNEAQYLLINTSSILELHRQLNTSDENGKEELFSLKDLSLRFRANII  
INGKRAFEEEKWDEISIGSLRFQVLGPGCHRCQMICIDQQTGQRNQHVFKLSESRETKVN  
FGMYLMHASLDLSSPCFLSVGSQVLPVLKENVEGHDLPASEKHQDVT

>sp|Q9H3H1|MOD5\_HUMAN tRNA dimethylallyltransferase, mitochondrial OS=Homo sapiens GN=TRIT1 PE=1 SV=1

MASVAAARAVPVGSLRGLRQLPLVVLGATGTGKSTLALQLGQRLGGEIVSADSMQVY  
EGLDIIITNKVSAQEQRICRHHMISFVDPLVTNYTVVDFRNRATALIEDIFARDKIPVVG  
GTNYIESLLWKVLVNTKPEMGTEKVIDRKVELEKEDGLVLHKRLSQVDPEMAAKLPHH  
DKRKVARSLQVFEETGISHSEFLHRQHTEEGGGLGGPLKFSNPCILWLHADQAVLDERL  
DKRVDDMLAAGLLELRDFHRRYNQKNVSENSQDYQHGFQSIGFKEFHEYLITEGKCTL  
ETSNQLLKKGIEALKQVTKRYARKQNRWVKNRFLSRPGPIVPPVYGLEVSDVSKWEESVL  
EPALEIVQSFIQGHKPTATPIKMPYNEAENKRSYHLCDLCDRIIIGDREWAHIKSKSHL  
NQLKKRRRLDSDAVNTIESQSVSPDHNKEPKEKGSPGQNDQELKCSV

>sp|P26038|MOES\_HUMAN Moesin OS=Homo sapiens GN=MSN PE=1 SV=3

MPKTIISVRVTTMDAELEFAIQPNTTGKQLFDQVVKTIGLREVWFFGLQYQDTKGFSTWLK

LNKKVTAQDVRKESPLLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPE  
TAVLLASYAVQSKYGFNKEVHKSGYLAGDKLLPQRVLEQHKLNKDQWEERIQVWHEEHR  
GMLREDAVLEYLKIAQDLEMYGVNYFSIKNKKGSELWLGVDALGLNIYEQNDRLTPKIGF  
PWSEIRNISFNDKKFVIKPIDKKAPDFVIFYAPRLRINKRILALCMGNHELYMRRRKPDIT  
EVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKK  
AQQELEEQTTRALELEQERKRAQSEAEKLAKERQEAEAKEALLQASRDQKKTQEQLALE  
MAELTARISQLEMARQKKESEAVEWQQAQMVQEDLEKTRAEKLTAMSTPHVAEPAENEQ  
DEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKALTSELANARDESKKTA  
NDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

>sp|Q9Y605|MOFA1\_HUMAN MORF4 family-associated protein 1 OS=Homo sapiens GN=MRFAP1 PE=1  
SV=1

MRPLDIVELAEPEEEVLEPEEDFEQFLLPVINEMREDIASLTREHGRAYLRNRSKLWEM  
DNMLIQIKTQVEASEESALNHLQNPGDAAEGRAAKRCEKAEEKAKEIAKMAEMLVELVRR  
IEKSESS

>sp|Q6PF18|MORN3\_HUMAN MORN repeat-containing protein 3 OS=Homo sapiens GN=MORN3 PE=1  
SV=2

MPVSKCPKSESLEWKGWDRKAQRNGLRSQVYAVNGDYVGEWKDNVKGKGTQVWKKKGA  
IYEGDWKFGKRDGYGTLSLPDQQTGKCRRVYSGWWGDKKSGYGIQFFGPKEYYEGDWCG  
SQRSGWGRMYYSNGDIYEGQWENDKPNGEGLRLKNGNRYEGCWERMKNAGRFFHLDH  
GQLFEGFWVDNMAKCGTMIDFGRDEAPEPTQFPIPEVKILDPDGVLAELAMFRKTEEGD

>sp|Q8TF71|MOT10\_HUMAN Monocarboxylate transporter 10 OS=Homo sapiens GN=SLC16A10 PE=1  
SV=1

MVLSQEEPDSARGTSEAQPLGPAPTGAAPPPGPGSDSPEAAVEKVEVELAGPATAEPHE  
PPEPPEGGWGLVMLAAMWCNGSVFGIQNACGVLFVSMLETFGSKDDDKMVFKTAVVGS  
SMGMIFCCPIVSFTDLFGCRKTAVVGAAGVFVGLMSSSFVSSIEPLYLTYGIIIFACGC  
SFAYQPSLVILGHYFKRLGLVNGIVTAGSSVFTILLPLLLRVLIDSVGLFYTLRVLCIF  
MFVLFLAGFTYRPLATSTDKESGGSGSSLFSRKKFSPPKKIFNFAIFKVTAYAVWAVGI  
PLALFGYFVPYVHLMKHVNRFQDEKNKEVLMCIGVTSGVGRLLFGRIADYVPGVKVY  
LQVLSFFFIGLMSMMIPLCSIFGALIAVCLIMGLFDGCFISIMAPIAFELVGAQDVSQAI  
GFLLGFMSIPMTVGPPPIAGLLRDKLSYDVAFYLAGVPPLIGGAVLCFIPWIHKKQREI  
SKTTGKEKMEKMLENQNSLLSSSSGMFKKESDSII

>sp|Q6ZSM3|MOT12\_HUMAN Monocarboxylate transporter 12 OS=Homo sapiens GN=SLC16A12 PE=1  
SV=2

MAKVNARSTSPPDGGWGMIVAGCFLVTICTRAVTRCISIFFVEFQTYFTQDYAQTAWI  
HSIVDCVTMLCAPLGSVSNHLSQVQVIMLGGLLASTGLILSSFATSLKHLVLTGLVLTG  
LGFALCYSPAIAMVGKYFSRRKALAYGIAMSGSGIGTFILAPVVQLLIEQFSWRGALLIL  
GGFVLNLCVCGALMRPITLKEDHTTPEQNHVCRTQKEDIKRVSPYSSLTKEWAQTCLCCC  
LQQEYSFLLMSDFVVLAVSVLFMAYGCSPLFVYLVPYALSVGVSHQQAFLMSILGVIDI  
IGNITFGWLTDRRCLKNYQYVCYLFVAVGMDGLCYLCLPMLQSLPLLVPFSCFTGYFDGAY  
VTLIPVVTTEIVGTTSLSSALGVVYFLHAVPYLVSPPIAGRLVDTTGSYTA AFLLCGFSM  
IFSSVLLGFARLIKRMKTQLQFIKESDPKLQLWTNGSVAYSVARELDQKHGEPVATAV  
PGYSLT

>sp|O60669|MOT2\_HUMAN Monocarboxylate transporter 2 OS=Homo sapiens GN=SLC16A7 PE=1 SV=2  
MPPMPSAPPVHPPPDGGGWGIWVGAAFISIGFSYAFPKAVTVFFKEIQQIFHTTYSEIAW

ISSIMLAVMYAGGPVSSVLVNKYSRPVVIAGGLLCCLGMVLASFSSSVVQLYLTMGFIT  
GLGLAFNLQPALTIIGKYFYRKRPMANGLAMAGSPVFLSSLAPFNQYLFNTFGWKSFLI  
LGSLLLACVAGSLMRPLGPNQTTSSKSNKTKGTEDDSSPKIKTKKSTWEKVNKYLDFS  
LFKHRGFLIYLSGNVIMFLGFFAPIIFLAPYAKDQGIDEYSAAFLLSVMAFVDMFARPSV  
GLIANSKYIRPRIQYFFSFAIMFNGVCHLLCPLAQDYTSVLVYAVFFGLGFGSVSSVLFE  
TLMDLVGAPRFSSAVGLVTIVECGPVLLGPPLAGKLVDLTGEYKMYMSCGAIVVAASVW  
LLIGNAINYRLAKERKEENARQKTRESEPLSKSKHSEDVNVKVSNAQSVTSETNI

>sp|095907|MOT3\_HUMAN Monocarboxylate transporter 3 OS=Homo sapiens GN=SLC16A8 PE=2 SV=1

MGAGGPRRGEGPPDGGWGVVLGACFVVTGFAYGFPKAVSVFFRALMRDFDAGYSDTAWV  
SSIMLAMLYGTGPVSSILVTRFGCRPVMLAGGLLASAGMILASFATRLELYLTAGVLTG  
LGLALNFQPSLIMGLYFERRRPLANGLAAAGSPVFLSALSPLGQQLLERFGWRGGFLLL  
GGLLLHCCACGAVMRPPPGPGPRRDSAGDRAGDAPGEAEADGAGLQLEASPRVRPRR  
RLDLAVCTDRAFAVYAVTKFLMALGLFVPAILLVNYAKDAGVPDAAFLLSIVGFVDI  
VARPACGALAGLARLRPHVPYLFSLALLANGLTDLSSARARSYGALVAFCVAFGLSYGMV  
GALQFEVLMAAVGAPRFPSALGLVLLVEAAVLI GPPSAGRLVDVLKNEYIIFYLAGSEV  
ALAGVFMVATNCCLRCAKAAPSGPGTEGGASDTEAEAGDSEPLPVVAEEPGNLEALE  
VLSARGEPTPEIEARPRLAAESV

>sp|015374|MOT5\_HUMAN Monocarboxylate transporter 5 OS=Homo sapiens GN=SLC16A4 PE=2 SV=1

MLKREGKVQPYTKTLDGGWGMIVIHFFLVNVFVMGMTKTFAIFFVVFQEEFEGTSEQIG  
WIGSIMSSLRFCAGPLVAIICDILGEKTTSLGAFVVTGGYLISWATSIPFLCVTMGLL  
PGLGSAFLYQVAAVVTKYFKRLALSTAIARSGMGLTFLAPFTKFLIDLYDWTGALIL  
FGAIALNLVPSSMLLRPIHIKSENNSGIKDKGSSLSAHGPEAHATETHCHETEESTIKDS  
TTQAGLPSKNLTVSQNQSEEFYNGPNRNRLLLSKDEESDKVISWSCKQLFDISLFRNPF  
FYIFTWSFLLSQLAYFIPTFHLVARAKTLGIDMDASYLVSVAGILETVSQIISGWVADQ  
NWIKKYHYHKSYLILCGITNLLAPLATTFPLMTYTICFAIFAGGYLALILPVLVDLCRN  
STVNRFLGLASFFAGMAVLSPPIAGWLYDYTQTYNGSFYFSGICYLLSSVSFFFVPLAE  
RWKNSLT

>sp|015375|MOT6\_HUMAN Monocarboxylate transporter 6 OS=Homo sapiens GN=SLC16A5 PE=2 SV=1

MPQALERADGSWAWVLLATMTVQGLTLGFPTCIGIFFTELQWEFQASNETSWFPSILT  
AVLHMAGPLCSILVGRFGCRVTVMGGVLASLGMVASSFSHNLSQLYFTAGFITGLMCF  
SFQSSITVLGYFVRRRVLANALASMGVSLGITLWPLLSRYLLENLWGRGTFLVFGGIFL  
HCCICGAIIRPVATSVAPETKECPPPPETPALGCLAACGRTIQRHLAFDILRHNTGYCV  
YILGVMWSVLGFPLPQVFLVPYAMWHSVDEQQAALLISIIIGFSNIFLRPLAGLMAGRPAF  
ASHRKYLFSLALLNGLTNLVCAASGDFWVLVGCLAYSVSMSGIGALIFQVLMDIVPMD  
QFPRALGLFTVLDGLAFLISPPLAGLLLDATNNFSYVFYMSSFFLISAALFMGGSFYALQ  
KKEQKQQAADAALERDLFLEAKDGPQKRSPEIMCQSSRQPRPAGVKNHLWGCPASSRT  
SHEWLLWPKAVLQAKQTALGWNST

>sp|Q6UVY6|MOXD1\_HUMAN DBH-like monooxygenase protein 1 OS=Homo sapiens GN=MOXD1 PE=1 SV=1

MCCWPLLLLWGLLPGTAAGGSGRTYPHRTLLDSEGKYWLGSQRGSQIAFRLQVRTAGYV  
GFGFSPTGAMASADIVVGGVAHGRPYLQDYFTNANRELKKDAQQDYHLEYAMENSTHTII  
EFTRELHTCDINDKSITDSTVRVIWAYHHEDAGEAGPKYHDSNRGTKSLRLLNPEKTSVL  
STALPYFDLVNQDVPINPKDTTYWCQMFKIPVFQEKHHVIVKEPVIQRGHESLVHHILLY  
QCSNNFNDSVLESHECYHPNMPDAFLTCTVIFAWAIGGEGFSYPPHVGLSLGTPLDPH

YVLLLEVHYDNPTYEEGLIDNSGLRLFYTM DIRKYDAGVIEAGLWVSLFHTIPPGMPEFQS  
EGHCTLECLEEAEAEKPSGIHVFAVLLHAHLAGRGIRLRHFRKGKEMKLLAYDDDFDFN  
FQEFQYLKEEQTILPGDNLITECRYN TKDRAEMTWGGLSTRSEMCLSYLLYYPRINLTRC  
ASIPDIMEQLQFIGVKEIYRPVTTWPFIIKSPKQYKNLSFMDAMNKFWKKEGLSFNKL  
VLSLPVNVRCSTDNAEWSIQGMTALPPDIERPYKAEPLVCGTSSSSSLHRDFSINLLVC  
LLLLSCTLSTKSL

>sp|Q96DM3|MIC1\_HUMAN Uncharacterized protein C18orf8 OS=Homo sapiens GN=C18orf8 PE=1  
SV=2

MGEEDYYLELCERP VQFEKANPVNCVFFDEANKQVFAVRSGGATGVVVGPD DRNPISFR  
MDDKGVEVKCIKFSLENKILAVQRTSKTVDFCNFIPDNSQLEYTQECKTKNANILGFCWTS  
STEIVFITDQGIEFYQVLP EKRSCLKLLKSHNLNVNWMYCPE SAVILLSTTVLENVLQPF  
HFRAGTMSKLPKFEIELPAAPKSTKPSLSERDIAMATIYGQLYVLFLRHSRTSNSTGAE  
VVLYHLPREGACKMHILKLNRTGKFALNVVDNLVVVHHQDTETSVIFDIKLRGEFDGSV  
TFHHPVLPARSIQPYQIPITGPAAVTSQSPVPCKLYSSSWIVFQPDIIISASQGYLWNLQ  
VKLEPIVNLLPDKGR LMDFLLQRKECKMVILSVCSQMLSES DRASLPVIATVFDKLNHEY  
KKYLD AEQSYAMAVEAGQSRSSPLLKRPVRTQAVLDQSDVYTHVLSAFVEKKEMPHKFVI  
AVLMEYIRSLNQFQIAVQH YLHELVIKTLVQHNLFYMLHQFLQYHVLSDSKPLACLLSL  
ESFYPPAHQLSLDMLKRLSTANDEIVEVLLSKHQVLAALRFIRGIGGHDNISARKFLDAA  
KQTEDNMLFYTIFRFFEQRNQRLRGSPNFTPGEHCEEHVAFKQIFGDQALMRPTTF

>sp|Q8N183|MIMIT\_HUMAN Mimitin, mitochondrial OS=Homo sapiens GN=NDUFAF2 PE=1 SV=1

MGWSQDLFRALWRSLSREVKEHVGTDQFGNKYYYIPQYKNWRGQTIREKRIVEAANKKEV  
DYEAGDIPTWEAWIRRTKTPPTMEEILKNEKHREEIKIKSQDFYEKEKLLSKETSEEL  
LPPPVQTQIKGHASAPYFGKEEPSVAPSSTGKTFQPGSWMPR DGKSHNQ

>sp|Q8IU8|MINA\_HUMAN Bifunctional lysine-specific demethylase and histidyl-hydroxylase  
MINA OS=Homo sapiens GN=MINA PE=1 SV=1

MPKKAKPTGSGKEEGPAPCKQM KLEAAGGPSALNFDSPSSLFESLISPIKTETFFKEFWE  
QKPLLIQRDDPALATYYGSLFKLTDLKS LCSRGMYYGRDVNVCRCVNGKKKVLNKDGKAH  
FLQLRKDFDQKRATIQFHQPQRFKDELWRIQE KLECYFGSLVGSNVYITPAGSQGLPPHY  
DDVEVFILQLEGEKHWRLYHPTVPLAREYSVEAEERIGRPVHEFMLKPGD LLYFPRGTIH  
QADTPAGLAHSTHVTISTYQNNSWGDFLLDTISGLVFD TAKEDVELRTGIPRQLLQVES  
TTVATRRLSGFLRTLADRLEGT KELLSSDMKKDFIMHRLPPYSAGDGAELSTPGGKL PRL  
DSVVR LQFKDHIVLTVLPDQDQSDAEQKMVYIYHSLKNSRETHMMGNEEETEFHGLRFP  
LSHLDALKQIWNSPAISVKDLKLTDEEKESLVLSLWTECLIQVV

>sp|Q8N4C8|MINK1\_HUMAN Misshapen-like kinase 1 OS=Homo sapiens GN=MINK1 PE=1 SV=2

MGDPAPARSLDDIDL SALRDPAGIFELVEVVGNGTYGQVYKGRHVKTGQLAAIKVMDVTE  
DEEEEIKQEINMLKKYSHHRNIATYYGAFIKKSPPGNDDQLWLVMEFCGAGSVTDLVKNT  
KGNALKEDCIAIYICREILRGLAHLHAHKV IHRDIKGQNVLLTENAEVKLVDFGVSAQLDR  
TVGRRNTFIGTPYWMAPEVIACDENPDATYDYS DIWSLGITAIEMAEGAPPLCDMHPMR  
ALFLIPRNP PRLKSKKWSKKFIDFIDTCLIKTYLSRP PTEQLLKFPFIRDQPTERQVRI  
QLKDHIDRSRKKRGEKEETEY EYSGSEEDDSHGEEGEPSSIMNVPGESTLRREFLRLQQ  
ENKSNSEALKQQQQQLQQQQQRDPEAHIKHLLHQRQRRIEEQKEERRRVEEQRREREQRK  
LQEKEQQRRL EDMQALRREEERRQAEREQEYKRKQLEEQRQSERLQRQLQQEHAYLKS LQ  
QQQQQQQLQKQQQQQLLPGRKPLYHYGRGMNPADKPAWAREVEERTRMNKQNSPLAKS  
KPGSTGPEPPI PQASPGPPGPLSQTPPMQRPVEPQEGPHKSLVAHRVPLKPYAAPVPRSQ

SLQDQPTRNLAAFPASHDPDAIPAPTATPSARGAVIRQNSDPTSEGGPGSPNPPAWVRP  
DNEAPPKVPQRTSSIATALNTSGAGGSRPAQAVRARPRSNSAWQIYLQRRRAERGTPKPPG  
PPAQPPGPPNASSNPDLRSDPGWERSDSVLPASHGHLPAQAGSLERNRVGVSSKPDSSPV  
LSPGNKAKPDHRSRPGPADFVLLKERTLDEAPRPPKKAMDYSSSSSEEVESSEDEEEEG  
EGGPAEGSRDTPGGRSDGDTDSVSTMVVDVVEITGTQPPYGGGTMVVQRTPEEERNLLH  
ADSNGYTNLPDVVQPSHSPTENSKGQSPPSKDGSGDYQSRGLVKAPGKSSFTMFVDLGIY  
QPGSGSDSIPITALVGGEGTRLDQLQYDVRKGSVNVNPTNTRAHSETPEIRKYKKRFNS  
EILCAALWGVNLLVGTENGLMLLDRSGQGKVGVLIGRRRFQQMDVLEGLNLLITISGKRN  
KLRYVYLSWLRNKLHNDPEVEKKQGWTTVGDMEGCGHYRVVKYERIKFLVIALKSSVEV  
YAWAPKPYHKFMAFKSFADLPHRPLLVDLTVEEGQRLKVIYGSSAGFHAVDSDSGNSYDI  
YIPVHIQSQITPHAIIFLPNTDGMEMLLCYEDEGVYVNTYGRIIKDVVLQWGEMPTSVAY  
ICSNQIMGWGEKAIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSRGGSSQVY  
FMTLNRNCIMNW

>sp|Q96T58|MINT\_HUMAN Msx2-interacting protein OS=Homo sapiens GN=SPEN PE=1 SV=1

MVRETRHLWVGNLPENVREEKIIIEHFKRYGRVESVKILPKRGSEGGVAAFVDFVDIKSAQ  
KAHNSVNMKGDRDLRTDYNEPGTIPSAARGLDDTVSIASSRSREVSFGRGGGGPAYGPPP  
SLHAREGRYERRLDGASDNREAYEHSAYGHHERGTTGGFDRTRHYDQDYRDPRERTLQH  
GLYYASRSRSPNRFDAHDPRYEPRAREQFTLPSVVHRDIYRDDITREVRGRRPERNYQHS  
RSRSPHSSQSRNQSPQRLASQASRPTRSPSGSGSRSSSSSDSISSSSSTSSDSSDSSSS  
SSDDSPARSVQSAAPAPTSQLLSSLEKDEPRKSFGIKVQNLVPRSTDTSKDGDFHEFK  
KFGKVTSVQIHGTSEERYGLVFFRQQEDQEALTASKGKLFFGMQIEVTAWIGPETESEN  
EFRPLDERIDEFHPKATRTLFIGNLEKTTTYHDLRNIFQRFGEIVDIDIKKVNVPQYAF  
LQYCDIASVCKAIKKMDGEYLGNNRLKLGFGKSMTNCVWLDGLSSNVSDQYLTRHFCRY  
GPVVKVVFDRCLKGMALVLYNEIEYAQAQAVKETKGRKIGGNKIKVDFANRESQLAFYHCME  
KSGQDIRDFYEMLAERREERRASYDYNQDRTYYESVTRTPGTYPEDSRRDYPARGREFYSE  
WETYQGDIYESRYDDPREYRDYRNDPYEQDIREYSYRQERERERERFESDRDRDHERR  
PIERSQSPVHLRRPQSPGASPSQAERLPDSERRLYSRSSDRSGSCSSLSPRYEKLDKS  
RLERYTKNEKTDKERTFDPERVERERRLIRKEKVEKDKTDKQKRGKVHSPSSQSSETDQ  
ENEREQSPEKPRSCNKLREKADKEGIAKNRLELMPCVVLTRVKEKEGKVIDHTPVEKLLK  
AKLDNDTVKSSALDQKLQVSQTEPAKSDLSKLESVRMKVPKEKGLSSHVEVVEKEGRLKA  
RKHLKPEQPADGVSADLEKLEARKRRFADSNLKAQKQKPEVKKSSPEMEDARVLSKKQP  
DVSSREVILLREGEAERKPVRKEILKRESKKIKLDRLNTVASPKDCQELASISVGSGSRP  
SSDLQARLGELAGESVENQEVQSKKPIPSKPQLKQLQVLDQGPREDVRKNYCSLRDET  
PERKSGQEKSHSVNTEEKIGIDIDHTQSYRKQMEQSRRKQQMEMEIAKSEKFGSPKKDVD  
EYERRSLVHEVGKPPQDVTDDSPSKKKRMDHVDFDICTKRERNYRSSRQISEDERTGG  
SPSVRHGSFHEDEDPIGSPRLSVKGSPPKVDKVLPSNITVREESLKFNPYDSSRREQM  
ADMAKIKLSVLNSEDELNRWDSQMKQDAGRFDVSFPNSIIKRDSLKRKRSVRDLEPGEVPS  
DSDEDGEHKSHSPRASALYESSRSLFLLRDREDKLRERDERLSSSLERNKFYSFALDKTI  
TPDTKALLERAKSLSSSREENWSFLDWDSRFANFRNNKDEKVD SAPRPIPSWYMKKKKI  
RTDSEGMDDKKEDHKEEQERQELFASRFLHSSIFEQDSKRLQHLEKKEEDSDFISGRI  
YGKQTSEGANSTTDSIQEPVVLFHSRFMELTRMQQKEKEKDQKPKEVEKQEDTENHPKTP  
ESAPENKDSSELKTPPSVGPPSVTVTLESAPSALEKTTGDKTVEAPLVTEEKTVEPATVS  
EEAKPASEPAPAPVEQLEQVDLPAGADPDKEAAMPAGVEEGSSGDQPPYLDKAPPTPGA  
SFSQAESNVDPEDSTQPLSKPAQKSEEANEPKAEKPDATADAEPDANQKAEAPESQPP

ASEDLEVDPPVAAKDKKPNKSKRSKTPVQAAAVSIVEKPVTRKSERIDREKLKRSNSPRG  
EAQKLELKMEDIAEKITRTASKNSAADLEHPEPSLPLSRTRRRNVRSVYATMGDHENRSPV  
KEPVEQPRVTRKRLERELQEAAPVTPRRGRPPKTRRRADEEEENEAKEPAETLKPPEG  
WRSPRSQKTAAGGGPQGGKGNPKVDATREATTVEGPGQIGVKESMEPKAAEEEAGSE  
QKRDRKDAGTDKNPPETAPVEVVEKKPAPEKNSKSKRGRSRNSRLAVDKSASLKNVDAV  
SPRGAAAQAGERESGVVAVSPEKSESPQKEDGLSSQLKSDPVPDPKEPEKEDVSASGPSP  
EATQLAKQMELEQAVEHIAKLAEASASAAYKADAPEGLAPEDRDKPAHQASETELAAG  
SIIINDISGEPENFPAPPYPGESQTDLQPPAGAALQPSSEGMETDEAVSGILETEAATE  
SSRPVNPADPSAGPTDTKEARGNSSETSHSVPEAKGSKEVEVTLVRKDKGRQKTTRSRR  
KRNTNKKVVAPVESHVPESNQAQGESPAANEGTTVQHPEAPQEEKQSEKPHSTPPQSCTS  
DLSKIPSTENSSQEIISVEERTPTKASVPPDLPPPPQAPVDEEPQARFRVHSIIIESDPVT  
PPSDPSIPIPTLPSVTAALKSPPVASGGIPHQSPTKVTETWITRQEEPRAQSTPSPALPP  
DTKASDVTSSSTLRKILMDPKYVSATSVTSTSVTTAIAEPVSAAPCLHEAPPPPVDSKK  
PLEEKTAPPVTNNSEIQASEVLVAADKEKVAPVIAPKITSVISRMPVSIDLENSQKITLA  
KPAPQTLTGLVSALTGLVNVSLVPVNAKGPVKGSVTTLSLSTPAGPVNVKGPVNVL  
TGPVNVLTTPVNAVGTVNAAAGTVNAAASAVNATASAVTVTAGAVTAASGGVTATTGTV  
TMAGAVIAPSTKCKQRASANENSRFHGSGMPVIDDRPADAGSGAGLRVNTSEGVLLSYS  
GQKTEGPQRISAKISQIPPASAMDIEFQQSVSKSQVKPDSVTASQPPSKGPQAPAGYANV  
ATHSTLVLTAAQTYNASPVISSVKADRPSLEKPEPIHLSVSTPVTQGGTVKVLTTQGINTPP  
VLVHNQLVLTPIVTTNKKLADPVTCLKIETKVLQPANLGSTLTPHHPALPSKLPTEVNH  
VPSGPSIPADRTVSHLAAAKLDAHSPRSGPGPSSFPRAHPSSTASTALSTNATVMLAA  
GIPVPQFISSIHPEQSVIMPPHSITQTVSLSHLSQGEVRMNTPTLPSITYSIRPEALHSP  
RAPLQPPQIEVRAPQRASTPQAPAGVPALASQHPPEEEVHYHLPVARATAPVQSEVLVM  
QSEYRLHPYTVPRDVRIMVHPHTAVSEQPRADGVVKVPPASKAPQQPGKEAAKTPDAK  
AAPTTPAPVPVPVPLPAPAPAPHGEARILTVTPSNQLQGLPLTPPVVVTHGVQIVHSSG  
ELFQEYRYGDIRTYHPPAQLTHTQFPAASSVGLPSRTKTAAGPPPEGEPLQPPQPVQST  
QPAQPAPPCPPSQLGQPGQPPSSKMPQVSQEAKGTQTGVEQPRLPAGPANRPPEPHTQVQ  
RAQAETGPTSFPSPVSMKPDLPVSLPTQTAPKQPLFVPTTSGPSTPPGLVLPHTFQFQ  
APKQDSSPHLTSQRPVDMVQLLKKYPIVWQGLLALKNDTAAVQLHFVSGNNVLAHRSPL  
SEGGPPLRIAQRMRLEATQLEGVARRMTVETDYCLLLALPCGRDQEDVVSQTESLKAIFI  
TYLQAKQAAGIINVPNPGSNQPAYVLQIFPPCFESSEHLSRLAPDLLASISNISPHLMIV  
IASV

>sp|Q9H081|MIS12\_HUMAN Protein MIS12 homolog OS=Homo sapiens GN=MIS12 PE=1 SV=1  
MSVDPMTYEAQFFGFTPQTCMLRIYIAFQDYLFEVMQAVEQVILKKLDGIPDCDISPVQI  
RKCTEKFLCFMKGHFDNLFSKMEQLFLQLILRIPSNILLPEDKCKETPYSEEDFQHLQKE  
IEQLQEYKTELCTKQALLAELEEQKIVQAKLKQTLTFDELHNVGRDHGTSDFRESLVS  
LVQNSRKLQNIRDNVEKESKRLKIS

>sp|Q15759|MK11\_HUMAN Mitogen-activated protein kinase 11 OS=Homo sapiens GN=MAPK11 PE=1  
SV=2  
MSGPRAGFYRQELNKTVWEVPQRLQGLRPVSGGAYGSVCAYDARLRQKVAVKKLSRPFQ  
SLIHARRTYRELRLKLKHKHENVIGLLDVFTPATSIEDFSEVYLVTTLMGADLNNIVKCQ  
ALSDEHVQFLVYQLRLGLKYIHSAGI IHRDLKPSNVAVNEDCELRIIDFGLARQADEEMT  
GYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLQGKALFPGSDYIDQLKRIMEVVG  
TPSPEVLAKISSEHARTYIQLPMPQKDLSSIFRGANPLAIDLGRMLVLDSDQRVSA

EALAHAYFSQYHDPEDPEAEPPYDESVEAKERTLEEWKELTYQEVLSFKPPEPPKPPGSL  
EIEQ

>sp|P09238|MMP10\_HUMAN Stromelysin-2 OS=Homo sapiens GN=MMP10 PE=1 SV=1

MMHLAFLVLLCLPVC SAYPLSGAAKEEDSNKDLAQQYLEKYNNLEKDVKQFRRKDSNLIV  
KKIQGMQKFLGLEVTGKLDTDLEVMRKPRCGVPDVGHFSSFPMPKWRKTHLTYRIVNY  
TPDLPRDAVDSAIEKALKVWEEVTPLTFSRLYEGEADIMISFAVKEHGDFYSFDGPGHSL  
AHAYPPPGPLYGDIHFDDDEKWTEDASGTNLFVAAHELGHSLGLFHSANTEALMYPLYN  
SFTELAQQFRLSQDDVNGIQSLYGPPASTEEPLVPTKSVPSGSEMPAKCDPALSFDAIST  
LRGEYLFFKDRYFWRSSHWNPEPEFHLISAFWPSLPSYLDAAEYVNSRDTVFIFKGNEFW  
AIRGNEVQAGYPRGIHTLGFPTIRKIDAAVSDKEKKKTYFFAADKYWRFDENSQSMEQG  
FPRLIADDFPGVEPKVDAVLQAFGFFYFFSGSSQFEFDPNARMVTHILKSNSWLHC

>sp|P50281|MMP14\_HUMAN Matrix metalloproteinase-14 OS=Homo sapiens GN=MMP14 PE=1 SV=3

MSPAPRPRLCLLPLLTGTALASLGSQSSSFPEAWLQQYGYLPPGDLRTHTRSPQS  
LSAAIAAMQKFYGLQVTGKADATMKAMRRPRCGVPDKFGAEIKANVRKRKYAIQGLKWQ  
HNEITFCIQNYTPKVG EYATYEAIRKA FRVWESATPLRFREVPYAYIREGHEKQADIMIF  
FAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRNEDLNGNDIFLAVHE  
LGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTKMPPQPRTT  
SRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWVRNNQVMDGYPMPIGQF  
WRGLPASINTAYERKDGKFVFFKGDKHWVFDEASLEPGYPKHIKELGRGLPTDKIDAALF  
WMPNGKTYFFRGNKYYRFNEELRAVDSEYPKNIKVWEGIPESPRGSFMSDEVFTYFYKG  
NKYWKFNQKLKVEPGYKPSALRDWMGCPSGGRPDEGTEETEVIIEVDEEGGAVSAA  
AVVLPVLLLLLVAVGLAVFFRRHGTPRRLLYCQRSLLDKV

>sp|O60882|MMP20\_HUMAN Matrix metalloproteinase-20 OS=Homo sapiens GN=MMP20 PE=1 SV=3

MKVLPASGLAVFLIMALKFSTAAPSLVAASPRTWRNNYRLAQAYLDKYTNKEGHQIGEM  
VARGSNSMIRKIKELQAFFGLQVTGKLDQTTMNVIKKPRCGVPDVANYRLFPGEPKWKKN  
TLTYRISKYTPSMSSVEVDKAVEMALQAWSSAVPLSFVRINSGEADIMISFENGHDGDSY  
PFDGPRGTLAHAFAPGEGGLGGDTHFDNAEKWTMG TNGFNLFVAAHEFGHALGLAHSTDP  
SALMYPTYKYKNPYGFHLPKDDVKGIQALYGPRKVFLGKPTLPHAPHHKPSIPDLCDSSS  
SFDVATMLGKELLFKDRIFWRRQVHLRTGIRPSTITSSFPQLMSNVDAAYEVAERG TAY  
FFKGPHYWITRGFMQGPRTIYDFGFPRHVQQIDAAYVLRPQKTLFFVGDEYYSYDER  
KRKMEKDYPKNTEEEFSGVNGQIDA AVELNGYIYFFSGPKTYKYDTEKEDVVSVKSSSW  
IGC

>sp|Q8N119|MMP21\_HUMAN Matrix metalloproteinase-21 OS=Homo sapiens GN=MMP21 PE=2 SV=2

MLAASIFRPTLLLCWLAAPWPTQPESLFHSRDRSDLEPSPLRQAKPIADLHAAQRFLSRY  
GWSGVAAWGPSPEGPPETPKGAALAEAVRRFQRANALPASGELDAATLAAMNRPRCGVP  
DMRPPPPSAPPSPGPPPRARRSRSPRAPLSLSRRGWQPRGYPDGGAQAQFSKRTLSWRL  
LGEALSSQLSVADQRRIVALAFRMWSEVTPLDFREDLAAPGAAVDIKLGFRGRHLGCPR  
AFDGSQGFEFAHAWRLGDIHFDDDEHFTPTSDTGISLLKVAVHEIGHVLGLPHTYRTGSI  
MQPNYIPQEPAFELDWSRKAIQKLYGSCEGSFDTAFDWIRKERNQYGEVMVRFSTYFFR  
NSWYWLYENRNNRTRYGDPIQILTGWPGIPTHNIDAFVHIWTWKRDERYFFQGNQYWRYD  
SDKDQALTEDEQGKSYPKLISEGFPGIPSPLDTAFYDRRQKLIYFFKESLVFAFDVNRNR  
VLNSYPKRITVFPVAVIPQNHFPFRNIDSAYYSYAYNSIFFFKGNAYWKVVNDKDKQNSW  
LPANGLFPKKFISEKWFDVCDVHISTLM

>sp|O75900|MMP23\_HUMAN Matrix metalloproteinase-23 OS=Homo sapiens GN=MMP23A PE=1 SV=2

MGRGARVPSEAPGAGVERRWLGAALVALCLLPALVLLARLGAPAVPAWSAAQGDVAALGL  
SAVPPTRVPGPLAPRRRRYTLTPARLRWDHFNLTyrILSFPRNLLSPRETRRALAAAFRM  
WSDVSPFSFREVAPEQPSDLRIGFYPIHNTDCLVSALHHCDFDGTGELAHAFPPHGGIH  
FDDSEYVWLGPTRYSWKKGWLTDLVHVAAHEIGHALGLMHSQHGRALMHLNATLRGWKA  
LSQDELWGLHRLYGCLDRLFVCASWARRGFCDARRRLMKRLCPSSCDFCYEFPPFTVATT  
PPPPRTKTRLVPEGRNVTFRCGQKILHKKGKVYWKDQEPLEFSYPGYLALGEAHLIIA  
NAVNEGTYTCVVRQQRVLTTYSWRVRVRG

>sp|Q9Y5R2|MMP24\_HUMAN Matrix metalloproteinase-24 OS=Homo sapiens GN=MMP24 PE=2 SV=1

MPRSRGGAAPGPPPPPPPGQAPRWSRWVPGRLLLLLALCCLPGAARAAAAAAGAG  
NRAAVAVAVARADEAEAPFAGQNLKSYGYLLPYDSRASALHSAKALQSAVSTMQQFYGI  
PVTGVLDDQTTIEWMKKPRCGVPDHPHLSRRRRNKRYALTGQKWRQKHITYSIHNYTPKVG  
ELDRKAIRQAFDVWQKVTPLTFEEVPYHEIKSDRKEADIMIFFASGFHGDSSPFDGEGG  
FLAHAYFPGPGIGDTHFDSDEPWTLGANHDGNDLFLVAVHELGHALGLEHSSDPSAIM  
APFYQYMETHNFKLPQDDLQGIQKIYGPPAELEPTRPLPLPVRRIHSPSERKHERQPR  
PPRPPLGDRPSTPGTKPNICDGNFNTVALFRGEMFVKDRWFWRLRNNRVQEGYPMQIEQ  
FWKGLPARIDAAYERADGRFVFFKGDKYWVFKEVTVEPGYPHSLGELGSCLPREGIDTAL  
RWEVPGKTYFFKGERYWRYSEERRATDPGYKPKITVWKGIPQAPQGAFISKEGYTYFYK  
GRDYWKFDNQKLSVEPGYPRNILRDWMGCNQKEVERRKERRLPQDDVDIMVTINDVPGSV  
NAVAVVIPCILSLCILVLVYTIFFQFNKTGPQPVTTYKRPVQEWV

>sp|Q9NRE1|MMP26\_HUMAN Matrix metalloproteinase-26 OS=Homo sapiens GN=MMP26 PE=2 SV=2

MLVLILRVITIFLPWCFAPVPVPAADHKGWDFVEGYFHQFFLTKKESPLLTQETQTQLLQQ  
FHRNGTDLLDMQMHALLHQPHCGVPDGSDTISISGRCKWNKHTLTYRIINYPHDMKPSAV  
KDSIYNAVSIWSNVTPLIFFQVQNGDADIKVSFWQWAHEDGWPFDPGGILGHAFLPNSG  
NPGVVHFDKNEHWSASDTGYNLFLVATHEIGHSLGLQHSQNSSIMYPTYWYHDPRTFQL  
SADDIQRITQHLGKCSSDIP

>sp|Q9H239|MMP28\_HUMAN Matrix metalloproteinase-28 OS=Homo sapiens GN=MMP28 PE=2 SV=2

MVARVGLLLRALQLLLWGHLDQAERGGQELRKEAEAFLEKYGLNEQVPKAPTSTRFS  
DAIRAFQWVSQLPVSGVLDRATLRQMTRPRCGVTDNTSYAAWAERISDLFARHRTKMRRK  
KRFAKQGNKWKYQHLISYRLVNWPEHLPEPAVRGAVRAAFQLWSNVSALEFWEAPATGPAD  
IRLTFFQGDHNDGLNAFDGPGGALAHAFLLPRRGEAHFDQDERWSLSRRRGRNLFVVLAH  
EIGHTLGLTHSPAPRALMAPYYKRLGRDALLSWDDVLAVQSLYGKPLGGSVAVQLPGKLF  
TDFETWDSYSPQGRRPETQGPKYCHSSFDAITVDRQQQLYIFKGSHFWEAADGNVSEPR  
PLQERWVGLPPNIEAAVSLNDGDFYFFKGGRCWRFRGPKPVWGLPQLCRAGGLPRHPDA  
ALFFPPLRRLILFKGARYYVLARGGLQVEPYPRSLQDWGGIPEEVSGALPRPDGSIIF  
RDDRYWRLDQAKLQATTSGRWATELPWMGCWHANSGSALF

>sp|P08253|MMP2\_HUMAN 72 kDa type IV collagenase OS=Homo sapiens GN=MMP2 PE=1 SV=2

MEALMARGALTGPLRALCLLGCLLSHAAAAPSPIIKFGDVPKTDKELAVQYLNTFYGC  
PKESCNLFLVKDTLKKMKQFFGLPQTGDLDQNTIETMRKPRCGNPDVANYNFFPRKPKWD  
KNQITYRIIGYTPDLDPETVDDAFARAFQVWSDVTPLRFSRIHDGEADIMINFRWEHGD  
GYPDFGKDGLLAHAFAPGTGVGGDSHFDDDELWTLGEGQVVRVKYGNADGEYCKFPFLFN  
GKEYNSCTDTGRSDGFLWCSTTYNFEKDGKYGFCPHEALFTMGNAEGQPKFPFRFQGT  
SYDSCTTEGRTDGYRWCGTTEDYDRDKYGFCEPETAMSTVGGNSEGAPCVFPFTFLGNKY  
ESCTSAGRSDGKMWCAATTANYDDDRKWGFCDQGYSLFLVAAHEFGHAMGLEHSQDPGAL  
MAPIYTYTKNFRLSQDDIKGIQELYGASPDIDLGTGPTPTLGPVTPEICKQDIVFDGIAQ



IRGEIFFFKDRFIWRTVTPRDKPMGPLLVATFWPELPEKIDAVYEAPQEEKAVFFAGNEY  
WIYSASTLERGYPKPLTSLGLPPDVQRVDAAFNWSKNKKTYIFAGDKFWRYNEVKKKMDP  
GFPKLIADAWNAIPDNLDAVVDLQGGGHSYFFKGAYYLKLENQSLKSVKFGSIKSDWLG  
>sp|P09237|MMP7\_HUMAN Matrilysin OS=Homo sapiens GN=MMP7 PE=1 SV=1  
MRLTVLCAVCLLPGLSALPLPQEAGGMSSELQWEQAQDYLKRFYLYDSETKNANSLEAKLK  
EMQKFFGLPITGMLNSRVIEIMQKPRCGVPDVAEYSLFPNSPKWTSKVVTYRIVSYTRDL  
PHITVDRLVSKALNMWGKEIPLHFRKVVWGTADIMIGFARGAHGDSYPFDGPGNTLAHAF  
APGTGLGGDAHFEDEDERWTDGSSSLGINFLYAATHELGHSLGMGHSSDPNAVMYPTYGNGD  
PQNFKLSQDDIKGIQKLYGKRNSRKK

>sp|Q13201|MMRN1\_HUMAN Multimerin-1 OS=Homo sapiens GN=MMRN1 PE=1 SV=3  
MKGARLFVLLSSLWSGGIGLNNKHSWTIPEDGNSQKTMPSASVPPNKIQSLQILPTTRV  
MSAEIATTPTEARTSEDSLLKSTLPPSETSAPAEGVRNQTLTSTKAEGVVKLQNLTLPTN  
ASIKFNPGAESVVLNSNLTFLQSFARKSNEQATSLNTVGGTGGIGGVGGTGGVGNRAPR  
ETYLSRGDSSSSQRTDYQKSNFETTRGKNWCAYVHTRLSPVILDNQVTYVPGKGPCGW  
TGGSCPQRSQKISNPVYRMQHKIVTSLDWCCPGYSGPKQLRAQEQSLIHTNQAESHT  
AVGRGVAEQQQQGGCGDPEVMQKMTDQVNYQAMKLTLQKKIDNISLTVNDVRNTYSSLE  
GKVSDEKSRFQSLKGLKSKSINVLIRDIVREQFKIFQNDMQETVAQLFKTVSSLEDL  
ESTRQIIQKVNESVVSIAAQKFVLVQENRPTLTDIVELRNHIVNRQEMTLTCEKPIKE  
LEVQKTHLEGALEQEHRSILYYESLNKTLKSLKEVHEQLLSTEQVSDQKNAPAAESVSN  
NVTEYMSTLHENIKKQSLMMLQMFEDLHIQESKINNLTVSLEMEKESLRGECEDMLSKCR  
NDFKFQKLDTEENLHVLNQTLAEVLFPMDNKMDKMSEQLNDLTYDMEILQPLLEQGASLR  
QTMTYEQPKEAIVIRKKIENLTSVNSLNFIIKELTKRHNLLRNEVQGRDDALERRINEY  
ALEMEDGLNKTMTIINNAIDFIQDNYALKETLSTIKDNSEIHHKCTSDMETILTFIPQFH  
RLNDSIQTLVNDNQRYNFVLQVAKTLAGIPRDEKLNQSNFQKMYQMFNETTSQVRKYQQN  
MSHLEEKLLLTTKISKNFETRLQDIESKVTQTLIPYYISVKKGSVVTNERDQALQLQVLN  
SRFKALEAKSIHLSINFFSLNKTLEHVLTMCHNASTSVSELNATIPKWKHSPLDQILLQ  
KGLTEFVEPIIIQIKTQAALSNLTCCIDRSLPGSLANVVKSQKQVKSPLPKINALKKPTVN  
LTTVLIGRTQRNTDNIITYPEEYSSSRHPCQNGGTCINGRTSFTCACRHPFTGDNCTIKL  
VEENALAPDFSKGSYRYAPMAFFASHTYGMTIPGPILFNNLDVNYGASYTPRTGKFRIP  
YLGYYVFKYTIESFSAHISGFLVVDGIDKLAFESINSEIHCDRVLTGDALLELNYGQE  
VWLRLAKGTIPAKFPPVTTFSGYLLYRT

>sp|Q96T76|MMS19\_HUMAN MMS19 nucleotide excision repair protein homolog OS=Homo sapiens  
GN=MMS19 PE=1 SV=2  
MAAAAAVEAAAPMGALWGLVHDFVVGQEGPADQVAADVKSNGYTVLQVVEALGSSLENP  
EPRTARAIQLLSQVLLHCHTLLLEKEVVHLILFYENRLKDHLVIPSVLQGLKALSCLV  
ALPPGLAVSVLKAIFQEVHVQSLPQVDRHTVYNIITNFMRTREEELKSLGADFTFGFIQV  
MDGEKDPNRNLLVAFRIVHDLISRDISLPGPFVEELFEVTSCYFPIDFTPPPNDPHGIQRED  
LILSLRAVLASTPRFAEFLPLLIEKVDSEVLSAKLDSLQTLNACCAVYGQKELKDFLPS  
LWASIRREVFQTASERVEAEGLAALHSLTACLSRSVLRADAEDLLDSFLSNILQDCRHHL  
CEPDMKLVWPSAKLLQAAAGASARACDSVTSNVPLLLEQFHKHSQSSQRRITILEMLLGF  
LKLQQKWSYEDKQRPNGFKDQLCSLVFMALTDPPSTQLQLVGIRTLTVLGAQPDLLSYE  
DLELAVGHLYRLSFLKEDSQSCRVAALASGTLAALYPVAFSSHLVPKLAEEELRVGESNL  
TNGDEPTQCSRHLCCQLASAVSTHPSIVKETPLLLQHLWQVNRGNMVAQSSDVIIVCQ  
SLRQMAEKCCQDPESCWFHQTAIPCLLALAVQASMPEKEPSVLRKVLLEDEVLAAMVSV

IGTATTHLSPELAAQSVTHIVPLFLDGNVSFLPENSFSPSRFQPFQDGSSGQRRLLALLMA  
FVCSLPRNVEIPQLNQLMRELLELSCCHSCPFSSTAAAKCFAGLLNKHPAGQQLDEFLQL  
AVDKVEAGLGGPCRSQAFTLLLVWTKALVLRYPHPLSSCLTARLMGLSDPELGPAADG  
FSLLMSDCTDVLTRAGHAEVRIIMFRQRFFTDNVPALVQGFHAAPQDVKNYLKGLSHVLN  
RLPKPVLLPELPTLLSLLLEALSCPDCVVQLSTLSCLQPLLEAPQVMSLHVDTLVTKFL  
NLSSSPMAVRIAALQCMHALTRLPTPVLLPYKPQVIRALAKPLDDKKRLVRKEAVSARG  
EWFLLGSPGS

>sp|Q8TD46|MO2R1\_HUMAN Cell surface glycoprotein CD200 receptor 1 OS=Homo sapiens  
GN=CD200R1 PE=1 SV=2

MLCPWRTANLGLLILITFLVAASSSLCMDEKQITQNYSKVLAEVNTSWPVKMATNAVLC  
CPPIALRNLIITWEIILRGQPSCTKAYRKETNETKETNCTDERITWVSRPDQNSDLQIR  
PVAITHDGYRYCIMVTPDGNFHRGYHLQVLVTPEVTLFQNRNRTAVCKAVAGKPAAQISW  
IPEGDCATKQEYWSNGTVTVKSTCHWEVHNVSTVTCHVSHLTGNKSLYIELLPVPGAKKS  
AKLYIPYIILTIIILTIVGFIWLLKVNGCRKYKLNKTESTPVVEEDEMOPYASYTEKNP  
LYDTTNKVKASEALQSEVDTDLHTL

>sp|Q96BY2|MOAP1\_HUMAN Modulator of apoptosis 1 OS=Homo sapiens GN=MOAP1 PE=1 SV=1

MTLRILLEDWCRGMDMNPRAKALLIAGISQSCSVAEIEEALQAGLAPLGEYRLLGRMFRRDE  
NRKVALVGLTAETSHALVPKEIPGKGGIWRVIFKPPDPDNTFLSRLNEFLAGEGMTVGEL  
SRALGHENGSLDPEQGMIPMWAPMLAQALEALQPALQCLKYKKLRVFSGRESPEPGEEE  
FGRWMFHTTQMIKAWQVPDVEKRRRLLESRLGPALDVIRVLKINNPLITVDECLQALEEV  
FGVTDNPRELQVKYLTYYQKDEEKL SAYVLRLEPLLQKLVRGAIERDAVNQARLDQVIA  
GAVHKTIRRELNLPEDGPAPGFLQLLVLIKDYEAEEEEALLQAILEGNFT

>sp|Q70IA6|MOB2\_HUMAN MOB kinase activator 2 OS=Homo sapiens GN=MOB2 PE=1 SV=1

MDWLMGKSKAKPNGKKPAAEERKAYLEPEHTKARITDFQFKELVVLPREIDLNEWLASNT  
TTFHHINLQYSTISEFCTGETCQTMVACNTQYYWYDERGKKVKCTAPQYVDFVMSSVQK  
LVTDEDVFPTKYGREFPSSFESLVRKICRHLFHVLAHIYWAHFKETLALHLHGLNTLYV  
HFILFAREFNLLDPKETAIMDDLTEVLCGAGGVHSGSGDGAGSGGPGAQNHVKER

>sp|Q3SYC2|MOGT2\_HUMAN 2-acylglycerol 0-acyltransferase 2 OS=Homo sapiens GN=MOGAT2 PE=1  
SV=2

MVEFAPLFMPWERRLQTLAVLQVFVSFLALAEICTVGFIALLFTRFWLLTVLYAAWWYLD  
RDKPRQGGRHIQAIKRWTIWKYMKDYFPISLVKTAELDPSRNYIAGFHPHGLAVGAFAN  
LCTESTGFSSIFPGIRPHLMLTLWFRAPFRDYIMSAGLVTSKESAAHILNRKGGGNL  
LGIIVGGAQEALDARPGSFTLLLRNRKGFVRLALTHGAPLVPIFSFGENDLFDQIPNSSG  
SWLRYIQNRLQKIMGISLPLFHGRGVFQYSFGLIPYRRPITTVVGKPIEVQKTLHPSEEE  
VNQLHQRYIKELCNLFEAHKLKFNIPADQHLEFC

>sp|Q9UQ07|MOK\_HUMAN MAPK/MAK/MRK overlapping kinase OS=Homo sapiens GN=MOK PE=2 SV=1

MKNYKAIGKIGEGTFSEVMKMQLRDNYYACKQMKQRFESIEQVNNLREIQALRRLNPH  
PNILMLHEVVFDKSGSLALICELMDMNIYELIRGRYPLSEKKIMHYMYQLCKSLDHIH  
RNGIFHRDVKPENILIKQDVLKLGDFGSCRSVYSKQPYTEYISTRWYRAPECLLTDGFYT  
YKMDLWSAGCVFYEIASLQPLFPGVNELDQISKIHDVIGTPAQKILTKFKQSRAMNFD  
FKKSGGIPLLTNLSQCLSLHAMVAYDPDERIAAHQALQHPYFQEQRKTEKRALGSHR  
KAGFPEHPVAPELSNSCQISKEGRKQKQSLKQEDRPKRRGPAYVMELPKLKLGVVRL  
SSYSSPTLQSVLGSNGRVPVLRPLKCIKASKKTDQKDLKPAPQQCRLPTIVRKGG

>sp|Q86VX9|MON1A\_HUMAN Vacuolar fusion protein MON1 homolog A OS=Homo sapiens GN=MON1A  
PE=1 SV=2

MATDMQRKRSSECLDGTLTSPDGQSMERAEPTPGMAQGMPEGAGQEGAMFVHARSYEDL  
TESEDGAASGDSHKEGTRGPPPLPTDMRQISQDFSELSTQLTGVARDLQEEMPLPGSSEDW  
LEPPGAVGRPATEPPREGTTEGDEEDATEAWRLHQKHVFLSEAGKPVYSRYGSEEALSS  
TMGVMVALVSFLEADKNAIRS IHADGYKVVFVRRSPLVLVAVARTRQSAQELAQELLYIY  
YQILSLLTGAQLSHIFQQKQNYDLRRLLSGSEITDNLLQLMARDPSFLMGAARCLPLAA  
AVRDTVSASLQARARSLVFSILLARNQLVALVRRKDQFLHPIDLHLLFNLISSSSSFRE  
GEAWTPVCLPKFNAAGFFHAHISYLEPDTDLCLLLVSTDREDFFAVSDCRRRFQERLRKR  
GAHLALREALRTPYYSVAQVGIPDLRHFLYKSKSSGLFTSPEIEAPYTSEEEQERLLGLY  
QYLHSAHNASRPLKTIYYTGPNENLLAWVTGAFELYMCYSPLGTKASAVSAIHKLMRWI  
RKEEDRLFILTPLY

>sp|Q7Z3U7|MON2\_HUMAN Protein MON2 homolog OS=Homo sapiens GN=MON2 PE=1 SV=3

MSGTSSPEAVKKLENNMQSDLRALSECKKKFPVKEAAESGIKVKTIAARNTILAAAL  
KENSSEVVQPFLMCGGTKEPKITQLCLAAIQRMSHEVVSETAAGNIINMLWQLMENSLE  
ELKLLQTVLVLLTTNTVVHDEALSKAIVLCFRLHFTKDNI TNNTAAATVRQVTVVFERM  
VAEDERHRDIIEQPVLVQGNSNRSSVSTLKPCAKEYMLFQDLCQLVNADAPYWLVGMT  
MTRTFGLELLESVLNDFPQVFLQHGEFSFLLKERVCLVIKLFSPNIKFRQGSSTSSPA  
PVEKPYFPICMRLLRVSVLIKQFYSLLVTECEIFLSLLVKFLDADKPQWLRVAVESI  
RFCVQPQLLSFCQSYDMKQHSKVFVRDIVNALGSFIQSLFLVPPTGNPATSNQAGNNL  
GGSVSAPANSGMVIGGGVTLLPAFEYRGTWIPILTITVQGSATYLEMLDKVEPPTIP  
EGYAMSVAFHCLLDLVRGITS MIEGELGELETECQTTTEEGSSPTQSTEQQDLQSTSDQM  
DKEIVSRVWEEMVNACWCGLLAALSLLDASTDEAATENILKAELTMAALCGRLGLVTS  
RDAFITAI CKGSLPPHYALTVLNTTTAATLSNKSYSVQGGQSVMMISPSESHQVAVGQ  
PLAVQPQGTVM LSTKNICMRLLNLAHCHGAVLGTSWQLVLATLQHLVWILGLKPSSGG  
ALKPGRAVEGPSTVLTAVMTDLPVISNLSRLEFESSQYLDVSLHHLINALCSLSLEAM  
DMAYGNNKEPSLFAVAKLETGLVNMHRIEILWRPLTGHLLVQCQHPNSRMREWGAEALT  
SLIKAGLTFNHDPPLSQNRQLQLLLL NPLKEMSNINHPDIRLKQLECVLQILQSQGDSL  
PGWPLVLGVMGAIRNDQGESLIRTAFCQLQLVVTDFLPTMPCTCLQIVVDVAGSFGLHNQ  
ELNISLTSIGLLWNISDYFFQRGETIEKELNKEEAAQKQAEKGVVLNRPFHPAPPFDC  
LWLCLYAKLGELCDPRPAVRKSAGQTLFSTIGAHGTLQHSTWHTVIWKVLFHLLDRVR  
ESSTTADKEKIESGGGNI IHHSRDTAEKQWAEWVLTLAGVARIFNTRRYLLQPLGDFS  
RAWDVLLDHIQSAALSKNNEVSLAALKSFQEILQIVSPVRSDKPEPPVNVVPVVLIG  
PISGMSRPFVRTDSIG EKLGRYSSEPPIVTDELEDNLWWAAWNTWYRIGSESTKPPIT  
FDKLTIFPSQPFLTALIQIFPQALYQHIKTGFNMDDLQKLGVILHSAISVPISSDASPFIL  
PSYTEAVLTSLQEAVLTALDVLQKAICVGPENMQIMYPAIFDQLLAFVEFSCPPQYGGQ  
ETKHIANAKYNIQIFAPA EWWALNYVPFAERSLEVVDLYQKTACHKAVVNEKVLQNI  
KTLRVPLSLKYSCESTWKLAVSSLLRVLSIGLPVARQHASSGKFDSMWPELANTFEDF  
LFTKSIIPDNLSIQEFQRNENIDVEVVQLISNEILPYANFIPKEFVGQIMTMLNKGSIHS  
QSSSFTEAEIDIRLREEFSKMCFETLLQFSFSNKVTTPEGYISRMALSVLLKRSQDVLH  
RYIEDERLSGKCPLPRQQVTEIIFVLKAVSTLIDSLKKTQPENVDGNTWAQVIALYPTLV  
ECITCSSSEVCSALKEALVPFKDFMQPPASRVQNGES

>sp|P69208|MORN\_HUMAN Morphogenetic neuropeptide OS=Homo sapiens PE=1 SV=1  
QPPGGSKVILF

>sp|P00540|MOS\_HUMAN Proto-oncogene serine/threonine-protein kinase mos OS=Homo sapiens  
GN=MOS PE=1 SV=1

MPSPLALRPYLRFSEFSPVDARPCSSPSELPAKLLLGATLPRAPRLPRRLAWCSIDWEQV  
CLLQRLGAGGFGSVYKATYRGVPVAIKQVNKCTKNRLASRRSFWAELNVARLRHDNIVRV  
VAASTRTPAGSNSLGTIIMEFGGNVTLHQVIYGAAGHPEGDAGEPHCRTGGQLSLGKCLK  
YSLDVVNGLLFLHSQSIVHLDLKPANILISEQDVCKISDFGCSEKLEDLLCFQTPSYPLG  
GTYTHRAPELLKGEVTPKADIYSFAITLWQMTTKAPYSGERQHILYAVVAYDLRPSLS  
AAVFEDSLPGQRLGDVIQRCWRPSAAQRPSARLLLVDLTSKAELE

>sp|Q8NCK7|MOT11\_HUMAN Monocarboxylate transporter 11 OS=Homo sapiens GN=SLC16A11 PE=2  
SV=1

MPAPQRKHRRGGFSHRCFPTPTAMTPQPAGPPDGGWGWVAAAAFAINGLSYGLLRSLG  
LAFPDLAEHFDRSAQDTAWISALALAVQQAASPVGSALSTRWGARPVVMVGGVLASLGFV  
FSAFASDLLHLYLGLGLLAGFGWALVFAPALGTLTRYFSRRRVLAAGLALTGNGASSLLL  
APALQLLLDTFGWRGALLLLGAITLHLTPCGALLPLVLPGDPPAPPRSPALGLSLFT  
RRAFSIFALGTALVGGGYFVPYVHLAPHALDRGLGGYGAALVVAAMGDAGARLVCGWL  
ADQGWVPLPRLAVFGALTGLGLVWVGLVPVVGGEESWGGPLAAAVAYGLSAGSYAPLV  
FGVLPLGVGVGGVQATGLVMMLMSLGGLGPPLSGFLRDETGFDTASFLLSGSLILSGS  
FIYIGLPRALPSCGPASPPATPPPETGELLPAQAVLLSPGGPGSTLDTTC

>sp|AOA0C5B5G6|MOTSC\_HUMAN Mitochondrial-derived peptide MOTS-c OS=Homo sapiens GN=MT-  
RNR1 PE=1 SV=1

MRWQEMGYIFYPRKLR

>sp|Q9HCE1|MOV10\_HUMAN Putative helicase MOV-10 OS=Homo sapiens GN=MOV10 PE=1 SV=2

MPSKFSCRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSSMLYG  
MKIANLAYVTKTRVRFRLDRWADVRFPKRRMKLGSDISKHKSLLAKIFYDRAEYLHG  
KHGVDVEVQGPHEARDGQLLIRLDLNRKEVLTLLRNLGGTQSVTLTHLFPLCRTPQFAFY  
NEDQELPCPLPGGECYELHVHCKTSFVGYPATVLWELLGPGESGSEGAGTFYIARFLAA  
VAHSPLAAQLKPMTPFKRTRITGNPVVTNRIEEGERPDRAKGYDLELSMALGTYYPPPR  
RQLPMLLQGTSTFTAPKEIAEIKAQLETALKWRNYEVKLRLLLHLEELQMEHDIRHYDL  
ESVPMTWDPVDQNPRLLTLEVPGVTSRPSVLRGDHLLFALLSSETHQEDPITYKGFVHKV  
ELDRVKLSFSMSLLSRFVDGLTFKVNFTFNRQPLRVQHRALELTGRWLLWPMLFPVAPRD  
VPLLPDVKLKLKYDRSLESNPEQLQAMRHIVTGTRPAPYIIFGPPGTGKTVTLVEAIKQ  
VVKHLPAHILACAPNSGADLLCQRLRVHLPSSIYRLLAPSRDIRMVPEDIKPCCNDA  
KKGEYVFPKKKLQEYRVLITTLITAGRLVSAQFPIDHFTHFIDEAGHCMEPESLVAIA  
GLMEVKETGDPGGQLVLAGDPRQLGPVLRSPLTQKHGLGYSLLERLLTNSLYKKGPDGY  
DPQFITKLLRNYSRHTITLDIPNQLYYEGELQACADVDRERFCRWAGLPRQGFPYIFHG  
VMGKDEREGNSPSFFNPAAATVTSYKLLAPSSKKGKARLSPRSVGVISPYRKQVEKI  
RYCITKLDRELRLGLDDIKDLKVGSVVEEFQGGERSVILISTVRSSQSFVQLDLDFNLGFLK  
NPKRFNVAVTRAKALLIIVGNPLLLGHDPDWKVFLEFCKENGYYTGCPPAKLDLQGGQN  
LLQGLSKLSPSTSGPHSHDYLPQEREGLSLQVEPEWRNEL

>sp|Q02750|MP2K1\_HUMAN Dual specificity mitogen-activated protein kinase kinase 1 OS=Homo  
sapiens GN=MAP2K1 PE=1 SV=2

MPKKKPTPIQLNPAPDGSVNGTSSAETNLEALQKKLEELDEQQRKRLEAFLTQKQKV  
GELKDDDFEKISELGAGNGGVVFKVSHKPSGLVMARKLIHLEIKPAIRNQIIRELQVLHE  
CNSPYIVGFYGAFYSDGEISICMEHMDGGSLDQVLKKAGRIPEQILGKVSIAVIKGLTYL

REKHKIMHRDVKPSNILVNSRGEIKLCDFGVSGQLIDSMANSFVGTRSYMSPERLQGTHY  
SVQSDIWSMGLSLVEMAVGRYPISPPDAKELELMFGCQVEGDAAETPPRPRTPGRPLSSY  
GMDSRPPMAIFELLDYIVNEPPPKLP SGVFSLEFQDFVNKCLIKNPAERADLKQLMVHAF  
IKRSDAEEVDFAGWLCSTIGLNQPSTPTHAAGV

>sp|P36507|MP2K2\_HUMAN Dual specificity mitogen-activated protein kinase kinase 2 OS=Homo sapiens GN=MAP2K2 PE=1 SV=1

MLARRKPVLPALTINPTIAEGSPSTSEGASEANLVDLQKKLEELDEQQKRLEAFLTQ  
KAKVGELKDDDFERISELGAGNGGVVTKVQHRPSGLIMARKLIHLEIKPAIRNQIIRELQ  
VLHECNSPYIVGYGAFYSYDGEISICMEHMDGGSLDQVLKEAKRIPEEILGKVSIAVLRG  
LAYLREKHQIMHRDVKPSNILVNSRGEIKLCDFGVSGQLIDSMANSFVGTRSYMAPERLQ  
GTHYSVQSDIWSMGLSLVELAVGRYPISPPDAKELEAIFGRPVVDGEEGEPHSISPRPRP  
PGRPVSGHGMSRPAAMIFELLDYIVNEPPPKLPNGVFTPDFQEFVNKCLIKNPAERADL  
KMLTNHTFIKRSEVEEVDFAWLCCKTLRLNQPSTPTRTAV

>sp|P30304|MPIP1\_HUMAN M-phase inducer phosphatase 1 OS=Homo sapiens GN=CDC25A PE=1 SV=2

MELGPEPPHRRRLLFACSPPPASQPVVKALFGASAAGGLSPVTNLTVTMDQLQGLGSDYE  
QPLEVKNSNLQRMGSSESTDSGFCLDSPGPLDSKENLENPMRRIHSLPQKLLGCSPALK  
RSHSDSLDHDIFQLIDPDENKENEAFEFKKPVRPVSRGCLSHGLQEGKDLFTQRQNSAP  
ARMLSSNERDSSEPGNFIPLFTQSPVTATLSDEDDGFVDLLDGENLKNEEETPSCMASL  
WTAPLVMRTTNLDNRCKLFDSPSLCSSSTRSVLKRPERSQEESPPGSTKRRKSMGASPK  
ESTNPEKAHETLHQSLSLASSPKGTIENILDNDPRDLIGDFSKGYLFHTVAGKHQDLKYI  
SPEIMASVLNGKFANLIKEFVIDCRYPYEYEGGHIKAVNLHMEEEVEDFLLKKPIVPT  
DGKRVIVVFHCEFSSESGPRMCRYVRERDRLGNEYPKLHYPELYVLKGGYKEFFMKCQSY  
CEPPSYRPMHHEDFKEDLKKFRTKSRTWAGEKSKREMYSLKKL

>sp|P30305|MPIP2\_HUMAN M-phase inducer phosphatase 2 OS=Homo sapiens GN=CDC25B PE=1 SV=2

MEVPQPEPAPGSALSPAGVCGGAQRPGHLPGLLLGSHGLLGSPVRAAASSPVTTLTQTMH  
DLAGLGSETPKSQVGTLLFRSRSLTHLSLRRASESSLSESSSESSDAGLCMDSPSPMD  
PHMAEQTFEQAIQAASRIIRNEQFAIRRFQSMQPVRLGHSPVLRNITNSQAPDGRRKSEA  
GSGAASSSGEDKENDGFVFKMPWKPTHPSSTHALAEWASRREAFAPRPSSAPDLMCLSPD  
RKMEVEELSPLALGRFSLTPAEGDTEDDGFVDILESDLKDDAVPPGMESLISAPLVKT  
LEKEEEKDLVMYSKCQRLFRSPSMPCSVIRPILKRLERPQDRDTPVQNKRRRSVTPPEEQ  
QEAEPPKARVLRSKSLCHDEIENLLSDHRELIGDYSKAFLLQTVDGKHQDLKYISPETM  
VALLTGKFSNIVDKFVIDCRYPYEYEGGHIKTAVNLPLERDAESFLLKSPIAPCSLDRK  
VILIFHCEFSSESGPRMCRFIRERDRAVNDYPSLYPEMYILKGGYKEFFQHPNFCEPQ  
DYRPMNHEAFKDELKTFRLKTRSWAGERSRRELCSRLQDQ

>sp|Q8TAP9|MPLKI\_HUMAN M-phase-specific PLK1-interacting protein OS=Homo sapiens GN=MPLKIP PE=1 SV=1

MQRQNRFPPTPPYPGPGGGWGSGSSFRGTPGGGGPRPPSPRDGYGSPHHTPPYGRSRP  
YGSSHSRPHGGSFPGGRFGSPSPGGYPGSYSRSPAGSQQFQGYSPGQQQTHPQGSPTST  
PFGSGRVREKRMSNELENYFKPSMLEDPWAGLEPVSVVDISQQYSNTQTFTGKKGRYFC

>sp|Q9H306|MMP27\_HUMAN Matrix metalloproteinase-27 OS=Homo sapiens GN=MMP27 PE=1 SV=2

MKRLLLFLFFITFSSAFPLVRMTENEENMQLAQAYLNQFYSLEIEGNHLVQSKNRSLID  
DKIREMQAFFGLTVTGKLDNTLEIMKTPRCGVPDVGGYGYTLPGWRKYNTYRIINYTP  
DMARAAVDEAIQEGLEVWSKVTPLKFTKISKGIADIMIAFRTRVHGRCPRYFDGPLGVLG  
HAFPPGPGLGGDTHFDEDENWTKDGAGFNFLVAAHEFGHALGLSHSNDQTALMFPNYVS

LDPRKYPLSQDDINGIQSIYGGPLKEPAKPKEPTIPHACDPLTFDAITTFRREVMFFKG  
RHLWRIYYDITDVEFELIASFWPSLPADLQAAYENPRDKILVFKDENFWMIRGYAVLPDY  
PKSIHTLGFPRVKKIDAAVCDKTRKTYFFVGIWCWRFDEMTQMDKGFPQRVVKHFPG  
ISIRVDAAFQYKGFFFFSRGSKQFEYDIKTKNITRIMRTNTWFQCKEPKNSSFQFDINKE  
KAHSGGIKILYHKSLSLFIGIVHLLKNTSIYQ

>sp|Q02252|MMSA\_HUMAN Methylmalonate-semialdehyde dehydrogenase [acylating],  
mitochondrial OS=Homo sapiens GN=ALDH6A1 PE=1 SV=2

MAALLAAAVRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKFVESKSDKWIDIH  
NPATNEVIGRVPQATKAEMDAIASCKRAFPWADTSVLSRQQVLLRYQQLIKENLKEIA  
KLITLEQGKTLADAEGDVFRGLQVVEHACSVTSLMMGETMPSITKMDLYSYRLPLGVCA  
GIAPFNFPAMIPLWMFPMAMVCGNTFLMKPSERVPGATMLLAKLLQDSGAPDGTNI IHG  
QHEAVNFICDHPDIKAI SFVGSNKAGEYIFERGSRHGKRVQANMGAKNHGVVMPDANKEN  
TLNQLVGAAGAAGQRCMALSTAVLVGEAKKWLP ELVEHAKNLRVNAGDQPGADLGPLIT  
PQAKERV CNLIDSGTKEGASILLDGRKIKVKGYENG FVGPTIISNVKPNMTCYKEEIFG  
PVLVLETETLDEAIQIVNNNYPYNGTAIFTTNGATARKY AHLVDVGQVGVNVPPIVPLP  
MFSFTGSRSSFRGDTNFYKGQGIQFYTQLKTITSQWKEEDATLSSPAVVMPTMGR

>sp|P41218|MNDA\_HUMAN Myeloid cell nuclear differentiation antigen OS=Homo sapiens  
GN=MNDA PE=1 SV=1

MVNEYKKILLKGFELMDDYHFTSIKSLLAYDLGLTTKMQEENRIKITDLMEKKFQGVA  
CLDKLIELAKDMPSLKNLVNNLRKEKSKVAKKIKTQEKAPVKKINQEEVGLAAPAPTARN  
KLTSEARGRIPVAQKRKTPNKEKTEAKRNKVSQE QSKPPGPSGASTSAAVDHPPLPQTSS  
STPSNTSFTPNQETQAQRQVDARRNVPQNDPVTVVVLKATAPFKYESPENGKSTMFHATV  
ASKTQYFHVKVF DINLKEKFVRKKVITISDYSECKGVMEIKEASSVSDFNQNFVPNRII  
EIANKTPKISQLYKASGTMVYGLFMLQKKS VHKNTIYEIQDNTGSM DVVGSGKWHNIK  
CEKGDKLRLFCLQLRTVDRKLLVCGSHSF IKVIKAKKNKEGPMNVN

>sp|P50219|MNX1\_HUMAN Motor neuron and pancreas homeobox protein 1 OS=Homo sapiens GN=MNX1  
PE=1 SV=3

MEKSKNFRIDALLAVDPPRAASAQSAPLALVTSLAAAASGTGGGGGGGASGGTSGSCSP  
ASSEPPAAPADRLRAESPSPRLLAAHCALLPKPGFLGAGGGGGTGGGHGGPHHHHPG  
AAAAAAAAAAAAAGGLALGLHPGGAQGGAGLPAQAALYGHVPYGYAAAAAALAGQHP  
ALSYSYPQVQGAHPADPIKLGAGTFQLDQWLRAS TAGMILPKMPDFNSQAQSNLLGK  
CRRPRTAFTSQQLLELHQFKLNKYL SRPKRFEVATSLMLTETQVKIWFQNRMRKWKRSK  
KAKEQAAQAEKQKGGGGGAGKGGAEEPGA EELLGPPAPGDKSGRRLRDLRSDPEEDE  
DEDDHDFPYSNGASVHAASSDCSSEDDSPPPRPSHPAPQ

>sp|Q15014|MO4L2\_HUMAN Mortality factor 4-like protein 2 OS=Homo sapiens GN=MORF4L2 PE=1  
SV=1

MSSRKQGSQPRGQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWG  
GRSAENPPSGSVRKRKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRME  
VKVKIPEELKPWLVEDWDLVTRQKQLFQLPAKKNVDAILEEYANCKKSQGNVDNKEYAVN  
EVVAGIKEYFNVMLGTQLLYKFERPQYAEI LLAHPDAPMSQVYGAPHLRLFVRIGAMLA  
YTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAEYHRKAL

>sp|Q9NZB8|MOCS1\_HUMAN Molybdenum cofactor biosynthesis protein 1 OS=Homo sapiens  
GN=MOCS1 PE=1 SV=3

MAARPLSRMLRRLRLRSSARSCSSGAPVTQPCPGESARAASEEVSRRRQFLREHAAPPSAF

LTDSFGRQHSYLRLISLTEKCNLRQCYCMPEEGVPLTPKANLLTTEEILTLARLFVKEGID  
KIRLTGGEPLIRPDVVDIVAQLQRLEGLRTIGVTTNGINLARLLPQLQKAGLSAINISLD  
TLVPAKFEFIVRRKGFGHKVMEGIHKAIELGYNPVKNCVVMRGLNEDELLDFAALTEGLP  
LDVRFIEYMPFDGNKWNFKMVSYPEMLDTRVQQWPELEKVPPEESSTAKAFKIPGFQGG  
ISFITSMEHFCGTCNRLRITADGNLKVCLFGNSEVSLRDHLRAGASEQELLRIIGAAVG  
RKKRQHAGMFSISQMKNRPMILIELFLMFPNSPPANPSIFSWDPLHVQGLRPRMSFSSQV  
ATLWKGCVRPQTPPLAQQLGSGSFQRHYTSRADSDANSKCLSPGSWASAAPSGPQLTSE  
QLTHVDSEGRAAMVDVGRKPDTERVAVASAVVLLGPVAFKLVQQNQLKKGDALVVAQLAG  
VQAAKVTSQLIPLCHHVALSHIQVQLELDSTRHAVKIQASCRARGPTGVEMEALTSAAVA  
ALTLYDMCKAVSRDIVLEEIKLISKTTGGQRGDFHRA

>sp|Q13724|MOGS\_HUMAN Mannosyl-oligosaccharide glucosidase OS=Homo sapiens GN=MOGS PE=1  
SV=5

MARGERRRRAVPAEGVRTAERAARGGPGRRDGRGGGPRSTAGGVALAVVLSLALGMSGR  
WVLAWYRARRAVTLHSAPPVLPADSSSPAVAPDLFWGTYRPHVYFGMKTRSPKPLLGLM  
WAQQGTTPGTPKLRHTCEQGDGVPGYGFHDLGFSGRQHIQDGLRLTTEFVKRPGGQH  
GGDWSWRVTVEPQDSGTSALPLVSLFFYVVTGKEVLLPEVGAKGQLKFISGHTSELGDF  
RFTLLPPTSPGDTAPKYGSYNVFWTSNPGPLLTEMVKSRLNSWFQHRPPGAPPERYLGL  
PGSLKWEDRPGSGGQGGQLFIQQVTLKIPISIEFVFESGSAQAGGNQALPRLAGSLLTQA  
LESHAEGFRERFEKTFQLKEKGLSSGEQVLGQAALSGLLGGIGYFYGGQLVLPDIGVEGS  
EQKVDPALFPPVPLFTAVPSRSFFPRGFLWDEGFHQLVVQRWDPSLTREALGHWLGLLNA  
DGWIGREQILGDEARARVPPEFLVQRAVHANPPTLLLPAHMLEVGDPPDLAFLRKALPR  
LHAWFSWLHQSAGPLPLSYRWRGRDPALPTLLNPKTLPSGLDDYPRASHPSVTERHLDL  
RCWVALGARVLTRLAEHLGEAEVAAELGPLAASLEAAESLDELHWAPELGVFADFGNHTK  
AVQLKPRPPQGLVRVVGRPQPQLQYVDALGYVSFLPLLLRLLDPTSSRLGPLLDILADSR  
HLWSPFGLRSLAASSFYGQRNSEHDPYWRGAVWLNVNLYALGALHHYGHLEGPHQARA  
AKLHGELRANVGVNWRQYQATGFLWEQYSDRDGRGMGCRPFHGWTSLVLLAMAEDY

>sp|075970|MPDZ\_HUMAN Multiple PDZ domain protein OS=Homo sapiens GN=MPDZ PE=1 SV=2

MLEAIDKNRALHAAERLQTKLRERGDVANEDKLSLLKSVLQSPLFSQILSLQTSVQQLKD  
QVNIATSATSNIYAHVPHLSPAIVPTLQNESFLLSPNNGNLEALTGPGIPHINKPACD  
EFDQLIKNMAQGRHVEVFELLKPPSGGLGFSVVGLRSENREGELGIFVQEIQEGSVAHRDG  
RLKETDQILAINGQALDQTITHQQAISILQKAKDTVQLVIARGSLPQLVSPIVSRSPSAA  
STISAHSNPVHWQHMETIELVNDGSGLGFGIIGGKATGVIVKTIPLGGVADQHRLCSGD  
HILKIGDIDLAGMSSEQVAQVLRCQGNRVKLMARGAIEERTAPTALGITLSSSPTSTPE  
LRVDASTQKGESETFDVELTKNVQGLGITIAGYIGDKKLEPSGIFVKSITKSSAVEHDG  
RIQIGDQIIAVDGTNLQGFTNQQAWEVLRHGTGTVLLTLMRRGMKQEAELMSREDVTKDA  
DLSPVNASIIKENYEKDEDFLSSTRNTNLPTEEGYPLLSAEIEEIEDAQKQEAALLTK  
WQRIMGINYEIVVAHVSKFSENSGLGISLEATVGHHFIRSVLPEGPVGHSGKLFSGDELL  
EVNGITLLGENHQDVVNILKELPIEVTMVCCRRTVPPTTQSELDSDLCDIELTEKPHVD  
LGEFIGSSETEDPVLAMTDAGQSTEEVQAPLAMWEAGIQHIELEKSGKLGFSILDYQDP  
IDPASTVIIIRSLVPGGIAEKDGRLLPGDRLMFVNDVNLENSSLEEAVEALKGAPSGTVR  
IGVAKPLPLSPEEGYVSAKEDSFYPPHSCEEAGLADKPLFRADLALVGTNDADLVDEST  
FESPYPENDSIYSTQASILSLHGSSCGDGLNYGSSLPSSPPKDVIENTCDPVLDLHMSL  
EELYTNLLQRQDENTPSVDISMGPASGFTINDYTPANAIEQQYECENTIVWTESHLPSE  
VISSAELPSVLPDSAGKGSEYILLEQSSLACNAECVMLQNVSKESFERTINIAKGNSSLGM

TVSANKDGLGMIVRSIIHGGAISRDRGRIAIGDCILSINEESTISVTNAQARAMLRHSLI  
GPDIKITYVPAEHL EEFKISLGQQSGRVMALDIFSSYTGRDIPELPEREEGEGEESELQN  
TAYSNWNQPRRVELWREPSKSLGISIVGGRMGSRLSNGEVMRGIFIKHVLEDSPAGKNG  
TLKPGDRIVEVDGMDLRDASHEQAVEAIRKAGNPVFMVQSIINRPRKSPLPSLLHNLYP  
KYNFSSSTNPFADSLQINADKAPSQSESEPEKAPLCVPPPPPSAFAEMGSDHTQSSASKI  
SQDVKDEDEFGYSWKNIRERYGTLTGELHMI ELEKGHSGGLSLAGNKDRSRMSVFIVGI  
DPNGAAGKDGRLQIADELLEINGQILYGRSHQNASSIIKCAPSKVKIIFIRNKDAVNQMA  
VCPGNAVEPLPSNSEN LQNKETEPTVTTSDAAVDLSSFKNVQHLELPKDQGGLGIAISEE  
DTLSGVI IKSLETHGVAATDGR LKVG DQILAVDDEIVVGYP IEFKISLLKTAKMTVKLTI  
HAENPDSQAVPSAAGAASGEKKNSSQSLMVPQSGSPEPESIRNTSRSSTPAIFASDPATC  
PIIPGCETTIEISKGR TGLGLSIVGGS DTL LGAI I IHEVYEEGAACKDGR LWAGDQILEV  
NGIDL RKATHDEAINVLRQTPQRVRLTLYRDEAPYKEEEVCDTLTIELQKKPGKGLGLSI  
VGKRNDTG V FVS DIVKGGIADADGR LMQGDQILMVNGEDVRNATQEAVAALLKCSLGTVT  
LEVGR I KAGPFHSERRPSQSSQVSEGLSSFTFPLSGSSTSESLESSSKNALASEIQGL  
RTVEMKKGPTDSLGISIAGGVGSP LGDVP IFIAMMHPTGVAAQTQKL RVGDRIVTICGTS  
TEGMTHTQAVNLLKNASGS IEMQVVAGGDVSVVTGHQQEPASSSL SFTGLTSSSIFQDDL  
GPPQCKSITLERGPDLGFSIVGGYGSPHGDLP IYVKTVFAKGAASEDGR LKRGDQIIAV  
NGQSLEGVTHEEAVAILKRTKGTV TLMVLS

>sp|P22897|MRC1\_HUMAN Macrophage mannose receptor 1 OS=Homo sapiens GN=MRC1 PE=1 SV=1

MRLPLLLVFASVIPGAVLLDTRQFLIYNEDHKRCVDAVSPSAVQTAACNQDAESQKFRW  
VSESQIMSVAFKLCLGVPSKTDWVAITLYACDSKSEFQKWECKNDTL LGIKGEDLFFNYG  
NRQKNIMLYKGSGLWSRWKIYGT DNLCSRGYEAMYTLLGNANGATCAFPFKFENKWYA  
DCTSAGRSDGWLWCGTTTDDYTDKLFGYCPLKFEGSESLWNKDPLTSVSYQINSKSALTW  
HQARKSCQQNAELLSITEIHEQTYLTGLTSSLTSGLWIGLNSLSFN SGWQWSDRSPFRY  
LNWLPGSPSAEPGKSCVSLNPGKNAKWENLECVKLG YICKKGNTLNSFVIPSESDVPT  
HCPSQWWPYAGHCYK IHRDEKKIQRDALTTCKREGD LTSIHTIEELDFIISQLGYEPND  
ELWIGLNDIKIQMYFEWSDGTPVTFTKWL RGEPSHENNRQEDCVVMKGKDG YWADRGC EW  
PLGYICKMKSRSQGPEIVEVEKGCRKGWKKHHFYCYMIGHTLSTFAEANQTCNNENAYLT  
TIEDRYEQAFLTSFVGLRPEKYFWTGLSDIQTKGTFQWTIEEEVRFTHWNSDMPGRKPGC  
VAMRTGIAGGLWDVLKDEKAKFVCKHWAEGVTHPPKPTTTPEPKCPEDWGASSRTSLCF  
KLYAKGKHEKKTWFESRDFCRALGGDLASINNKEEQQT IWR LITASGSYHKLFWLGLTYG  
SPSEGFTWSDGSPVSYENWAYGEPNNYQNVEYCGELKGDPTMSWNDINCEHLNNWICQIQ  
KGQTPKPEPTPAPQDNPPVTEDGWVIYKDYQYYFSKEKETMDNARAFCKRNFGDLVSIQS  
ESEKKFLWKYVNRNDAQSAYFIGLLISLDKKFAWMDGSKVDYVSWATGEPNFANEDENCV  
TMYSNSGFWNDINCGYPNAFICQRHSSINATTVMPTMPSVPSGCKEGWNFYSNKCFKIF  
GFMEERKNWQEAR KACIGFGGNLVSIQNEKEQAFLTYHMKDSTFSAWTGLNDVNSEHTF  
LWTDGRGVHYTNWGKGYPGGRRSSLSYEDADC VVIIGGASNEAGKWMDDTCDSKRGYICQ  
TRSDPSLTNP PATIQTDGFVKYKSSYSLMRQKFQWHEAETYCKLHNSLIASILDPYSNA  
FAWLQMETSNERVWIALNSNLTDNQYTWTDKWRVRYTNWAADEPKLSACVYLDLDGYWK  
TAHCNESFYFLCKRSD EIPATEPPQLPGRCPESDHTAWIPFHGH CYYIESSYTRNWGQAS  
LECLRMGSSLVSI ESAAESSFLSYRVEPLKSKTNFWIGLFRNVEGTWLWINNSPVSVFNW  
NTGDPSGERND CVALHASSGFWSNIHCSSYKGYICKRPKI IDAKPTHELLTTKADTRKMD  
PSKPSSNVAGVVIIVILLILTAGLAAYFFYKKRRVHLPQEGAFENTLYFNSQSSPGTSD  
MKDLVG NIEQNEHSVI



>sp|A6NI15|MSGN1\_HUMAN Mesogenin-1 OS=Homo sapiens GN=MSGN1 PE=3 SV=1

MDNLRETFLSLEDGLSSDSPGLSSWDWKDRAGPFELNQASPSQSLSPAPSLESYSSSP  
CPAVAGLPCEHGGASSGGSEGCSSVGASGLVEVDYNMLAFQPTHLLQGGGGPKAQKGTKVR  
MSVQRRRKASEREKLRMRTLADALHTLRNYLPPVYSQRGQPLTKIQLTKYTIKYIGELTD  
LLNRGREPRAQSA

>sp|Q14872|MTF1\_HUMAN Metal regulatory transcription factor 1 OS=Homo sapiens GN=MTF1  
PE=1 SV=2

MGEHSPDNIIYFEAEDELTPDDKMLRFVDKNGLVPSSSGTVYDRTTVLIEQDPGTLED  
EDDDGQCCEHLPLFLVGGEFGHLIDHEAMSQGYVQHIISPDIHLTINPGSTPMPRNIEG  
ATLTLQSECPETKRKEVKRYQCTFEGCPRTYSTAGNLRTHQKTHRGEYTFVCNQEGCGKA  
FLTSYSLRIHVRVHTKEKPFECQVQCEKAFNTLYRLKAHQRLHTGKTFNCESEGCSSKYF  
TTLSDLRKHIRTHTEKPFRCDDHGGCQKAFASHHKTHVRTHTGERPFFCPSNGCEKTF  
STQYSLKSHMKGHDNKGHSYNALPQHNGSEDNHSCLSDLSLLSTDSELRENSSTTQGG  
DLSTISPAIIFESMFQNSDDTAIQEDPQQTASLTESFNGDAESVSDVPPSTGNSASLSLP  
LVLQPLSEPPQPLLPASAPSAPPAPSLGPGSQQAAGNPPALLQPPEVPVPHSTQFAA  
NHQEFPLPHQAPQPIVPGLSVVAGASASAAVASAVAAPAPPQSTTEPLPAMVQTLPLGA  
NSVLTNNPTITITPTNTAILQSSLVMGEQNLQWILNGATSSPQNQEIIQQASKVEKVFF  
TTAVPVASSPGSSVQQIGLSVPVIIKQEEACQCQCACRDSAKERASSRRKGCSSPPPPPE  
PSPQAPDGPLQLPAQTFSSAPVPGSSSSTLPSSCEQSRQAETPSDPQTETLSAMDVSEF  
LSLQSLDTPSNLPIEALLQGEEMGLTSSFSK

>sp|Q9Y483|MTF2\_HUMAN Metal-response element-binding transcription factor 2 OS=Homo  
sapiens GN=MTF2 PE=1 SV=2

MRDSTGAGNSLVHKRSPLRRNQKTPSTLTKLSLQDGHKAKKPACKFEEGQDVLARWSDGL  
FYLGTIKKINILKQSCFIIFEDSSKSWVLWKDIQTGATGSGEMVCTICQEEYSEAPNEMV  
ICDKCGQGYHQLCHTPHIDCSVIDSDEKWLCRQCVFATTTKRGGALKKGPNAKALQVMKQ  
TLPYSVADLEWDAGHKTNVQQCYCYCGPGDWYLMKLQCKCKQWFHEACVQCLQKPLMF  
GDRFYTFICSVCSGPEYLKRLPLQWVDIAHLCLYNLSVIHKKKYFDSELELMTYINENW  
DRLHPGELADTPKSEREYHVLALNDYKTMFMSGKEIKKKKHLFGLRIRVPPVPPNVAFK  
AEKEPEGTSHEFKIKGRKASKPISDSREVSNGIEKKGKKKSVGRPPGPYTRKMIQKTAEP  
LLDKESISENPTLDLPCSIGRTEGTAHSSNTSDVDFTGASSAKETTSSSISRHYGLSDSR  
KRTRTGRSWPAAIPLHRRRRGRLPRLALQTQNSEIVKDDEGKEDYQFDELNTEILNNLAD  
QELQLNHLKNSITSYFGAAGRIACGEKYRVLARRVTLDGKVQYLVEWEGATAS

>sp|Q9BT17|MTG1\_HUMAN Mitochondrial ribosome-associated GTPase 1 OS=Homo sapiens GN=MTG1  
PE=1 SV=2

MRLTPRALCSAAQAAWRENFPCLGRDVARWFPGHMAKGLKKMQSSLKLVDCIIEVHDARI  
PLSGRNPLFQETLGLKPHLLVLNKMDLADLTEQQKIMQHLEGEGLKNVIFTNCKDENVK  
QIIPMVTELIGRSHRYHRKENLEYCIMVIGVPNVGKSSLINSLRRQHLRKGKATRVGGEP  
GITRAVMSKIQVSRPLMFLDTPGV LAPRIESVETGLKLALCGTVLDHLVGEETMADYL  
LYTLNKHQRFGYVQHYGLGSACDNVERVLKSAVKLGKTQKVKVLGTGNVNIIQPNYPA  
AARDFLQTFRRGLLSVMLDLDLVRGHPPAETLP

>sp|P42898|MTHR\_HUMAN Methylenetetrahydrofolate reductase OS=Homo sapiens GN=MTHFR PE=1  
SV=3

MVNEARGNSSLNPCLEGSASSGSESSKSSRCSTPGLDPERHERLREKMRRRLESGDKWF  
SLEFFPPRTAEGAVNLISRFDRMAAGGPLYIDVTWHPAGDPGSDKETSSMMIASTAVNYC

GLEILHMTCCRQRLEEITGHLHKAKQLGLKNIMALRGDPIGDQWEEEEGGFNAYVDLVK  
HIRSEFGDYFDICVAGYPKGHPGSEADLKLKEKVSAGADFIITQLFFEADTFFRFV  
KACTDMGITCPIVPGIFPIQGYHSLRQLVKLSKLEVPQEIKDVIEPIKDNDAAIRNYGIE  
LAVSLCQELLASGLVPLGHFYTLNREMATTEVLKRLGMWTEPPRRPLPWALSAHPKRREE  
DVRPIFWASRPKSYIYRTQEWDEFNPNRNGHVKVTCLPWNDPLAAETSLKEELLRVNRQGIL  
WGEELTSEESVFEVFLYLSGEPNRRNGHVKVTCLPWNDPLAAETSLKEELLRVNRQGIL  
TINSQPNINGKPSSDPIVWGPGSGGYVFKAYLEFFTSRETAELQLVKYELRVNYHL  
VNVKGENITNAPELQPNVWTGIFPGREIIQPTVDPVSFWMFKDEAFALWIERWGKLYE  
EESPSRTIIQYIHDNYFLVNLVDNDFPLDNCLWQVVEDTLELLNRPTQNARETEAP

>sp|Q9H8S9|MOB1A\_HUMAN MOB kinase activator 1A OS=Homo sapiens GN=MOB1A PE=1 SV=4

MSFLFSSRSSTFKPKKNIEGSHQYELLKHAEATLGSGNLRQAVMLPEGEDLNEWIAVN  
TVDFNQINMLYGTITEFCTEASCPVMSAGPRYEHWADGTNIKKPIKCSAPKYIDYLMT  
WVQDQLDETLPFSKIGVPFPKNFMSVAKTILKRLFRVYAHYHQHFDSVMQLQEEAHLN  
TSFKHFIFFVQEFNLIDRRELAPLQELIEKLGSKDR

>sp|Q70IA8|MOB3C\_HUMAN MOB kinase activator 3C OS=Homo sapiens GN=MOB3C PE=1 SV=1

MALCLKQVFAKDKTFRPRKRFEPGTQRFELYKKAQASLKSGLDLRSVRLPPGENIDDWI  
AVHVVDFFNRINLIYGTMAERCSETSCPMAGGPRYERWQDERQYRRPAKLSAPRYMAL  
LMDWIEGLINDEEVFPTRVGVFPKFNQVQVCTKILTRLFRVFVHVYIHHFDSILSMGAEA  
HVNTCYKHFFYYFIREFSLVDQRELEPLREMTERRICH

>sp|O96033|MOC2A\_HUMAN Molybdopterine synthase sulfur carrier subunit OS=Homo sapiens  
GN=MOC2 PE=1 SV=1

MVPLCQVEVLYFAKSAEITGVRSETISVPQEIKALQLWKEIETRHPLADVRNQIIFAVR  
QEYVELGDQLLVLPQGEIAVIPPISGG

>sp|Q86VF5|MOGAT3\_HUMAN 2-acylglycerol 0-acyltransferase 3 OS=Homo sapiens GN=MOGAT3 PE=1  
SV=1

MGVATTLQPPTTSKTLQKQHLEAVGAYQYVLTFLFMGPFFSLLVFVLLFTSLWPFSVFYL  
VWLYVDWDTPNQGGRRSEWIRNRAIWRQLRDYYPVKLVKTAELPPDRNYVLGAHPHGIMC  
TGFLCNFSTESNGFSQLFPGRLPWAVLAGLFYLPVYRDYIMSFGLCPVSRQSLDFILSQ  
PQLGQAVVIMVGGAHEALYSVPGEHCLTLQKRKGFVRLALRHGASLPVYSFGENDIFRL  
KAFATGSWQHWQCLTFKKLMGFSPCIFWGRGLFSATSWGLLPFAVPITTVVGRPIPVQR  
LHPTEEEVNHYHALYMTALEQLFEEHKESCGVPASTCLTFI

>sp|Q16653|MOG\_HUMAN Myelin-oligodendrocyte glycoprotein OS=Homo sapiens GN=MOG PE=1 SV=2

MASLSRPSLPSCLSFLLLLLQVSSSYAGQFRVIGRHPIRALVGDEVELPCRISPGKN  
ATGMEVGWYRPPFSRVVHLRNGKDQDQGAPEYRGRTELLKDAIGEGKVTLRIRNVRF  
DEGGFTCFFRDHSYQEEAMELKVEDPFYVWSPGVLVLLAVLPVLLQITVGLIFLCLQY  
RLRGKLRAEIEHLRTDFPHFLRVPCWKITLFIIVPVLGPLVALIICYNWLHRRLAGQFL  
EELRNPF

>sp|Q7RTY0|MOT13\_HUMAN Monocarboxylate transporter 13 OS=Homo sapiens GN=SLC16A13 PE=2  
SV=1

MARRTEPPDGGWGVVLSAFFQSALVFGVLRSGVFFVEFVAAFEEQAARVSWIASIGI  
AVQFGSPVGSALSTKFGPRPVMTGGILAAAGMLLASFATSLTHLYLSIGLLSGSGWAL  
TFAPTLACLSCYFSRRRSLATGLALTGVGLSSFTFAPFFQWLLSHYAWRGSLLLVSALSL  
HLVACGALLRPPSLAEDPAVGGPRAQLTSLHHGPFLRYTVALTLINTGYFIPYLHLVAH  
LQDLWDPLPAAFLLSVVAISDLVGRVSGWLGDVPGPVTRLLMLWTTLTGVSALFPV

AQAPTALVALAVAYGFTSGALAPLAFSVLPELIGTRRIYCGLLQMIESIGLLGPPLS  
GYLRDVTGNYTASFVVAGAFLLSGSGILLTLPHFFCFSTTTSGPQDLVTEALDTKVPLPK  
EGLEED

>sp|Q7RTX9|MOT14\_HUMAN Monocarboxylate transporter 14 OS=Homo sapiens GN=SLC16A14 PE=2  
SV=1

MYTSHEDIGYDFEDGPKDKKTLKPHPNIDGGWAWMMVLSSFFVHILIMGSQMALGVLNVE  
WLEEFHQSRGLTAWVSSLSMGITLIVGPFIGLFINTCGCRQTAIIGGLVNSLGWLSAYA  
ANVHYLFITFGVAAGLGSGMAYLPAVVMVGRYFQKRRALAQGLSTTGTGFGTFLMTVLLK  
YLCAEYGWRNAMLIQGAVSNLNCVCGALMRPLSPGKNPNDPGEKDVRGLPAHSTESVKST  
GQQGRTEEKDGGLGNEETLCDLQAQECPDQAGHRKNMCALRILKTVSWLTMRVRKGFEDW  
YSGYFGTASLFTNRMFVAFIFWALFAYSSFVIPFIHLPEIVNLNLSQNDVFPLTSIIA  
IVHIFGKVI LGVIADLPCISVWNVFLLANFTLVLSIFILPLMHTYAGLAVICALIGFSSG  
YFSLMPVVTEDLVGIEHLANAYGIIICANGISALLGPPFAGWIYDITQKYDFSFYICGLL  
YMIGILFLLIQPCIRIIEQSRKYMMDGAHV

>sp|O15427|MOT4\_HUMAN Monocarboxylate transporter 4 OS=Homo sapiens GN=SLC16A3 PE=1 SV=1

MGGAVVDEGPTGVKAPDGGWGWAVLFGCFVITGFSYAFPAKAVSVFFKELIQEFGIGYS  
DTAWISSILLAMLYGTGPLCSVCVNRFGCRPVMVLVGGFLFASLGMVAASFCSR  
IIQVYLTGTGITGLALNFQPSLIMLNRYFSKRRP  
MANGLAAGSPVFLCALSPLGQLQDRYGWRGGF  
LILGGLLLNCCVCAALMRPLVVT  
AQPGSGPPRPSRRLDLSVFRDRGFVLYAVAASVMVL  
GLFVPPVFVVSYAKDLGVPDTKAAFL  
LTILGFIDIFARPAAGFVAGLGKVRPYSVYLF  
FSF  
SMFNGLAGLAGSTAGDYGGLVVFCIFFG  
ISYGMV  
GALQFEV  
LMAIVGTHKFSSAIGLVL  
LMEAVAVLVGPPSGKLLDATHVYMYV  
FILAGAEVLTSSLILLGNFFCIRKKPK  
EPQPE  
VAAEEEEKLHKPPADSGVDLREVEHFL  
KAEPEKNGEVVHTPETS

>sp|Q7RTY1|MOT9\_HUMAN Monocarboxylate transporter 9 OS=Homo sapiens GN=SLC16A9 PE=1 SV=1

MELKKSPDGGWGWIVFVSFLTQFLCYGSPLAVGVLYIEWLDAFGEKGKTAWVGLASG  
VGLLASPVCSLCVSSFGARPVTIFSGFMVAGGLMLSSFAPNIYFLFFSYGIVVGLCGLL  
YTATVTITCQYFDDRRGLALGLISTGSSVGLFIYAALQRMLVEFYGLDGCLLIVGALALN  
ILACGSLMRPLQSSDCPLPKKIAPEDLPDKYSIYNEKGKNLEENINILDKSYSSEEKRI  
TLANGDWKQDSSLHKNPTVTHTKEPETYKKKVAEQTYFCKQLAKRQWLYKNYCGETVAL  
FKNKVFSALFIAILLFDIGGFPPSLLMEDVARSSNVKEEEFIMPLISIIIGIMTAVGKLL  
L  
GILADFKWINTLYLYVATLIIMGLALCAIPFAKSYVTLALLSGILGFLTGNWSIFPYVT  
KTVGIEKLAHAYGILMFFAGLGNLGPPIVWGYDWTQTYDIAFYFSGFCVLLGGFILL  
L  
AALPSWDTCNKQLPKPAPTTFLYKVASNV

>sp|A6NHM9|MOXD2\_HUMAN Putative DBH-like monooxygenase protein 2 OS=Homo sapiens  
GN=MOXD2P PE=5 SV=1

MAHDLLFRLFLLALGVPLQSNRLGPTSRLRYSRFLDPSNVIFLRWDFDLEAEIISFELQ  
VRTAGWVGFGVTNRYTNVGS  
DLVVGVL  
PNGNVYFSDQHLVEEDTLKEDGSQDAELLGLT  
EDAVYTTMHFSRPF  
RSCDPHDL  
DITSNTVRVLAAYGLDDTLKLYRERTFVK  
SIFLLQVVH  
PDDLDPEDTIIHDL  
EITNFLIPEDDTTYACTFLPLPIVSEKHHIYKFEPKLVYHNETTV  
HHILVYACGNASVLP  
TGISDCY  
GADPAFSLCSQVIVGSAVGGTSYQFPDDVGVSIGTPLD  
PQWILEIHYSNFN  
NLPGVYDSSGIRVYYTSQLCKYD  
TDVLQLGFFTFPIHFIPGAESFM  
SYGLCRTEKFEEMNGAPMPDIQVYGYLLH  
THLAGRALQAVQYRNGTQLRKICKDDSYDFN  
LQETRDLPSRVEIKPGDELLVECHYQTLDRDSMTFGGPSTINEMCLIFLYYPQNNISSC  
MGYPDIIYVAHELGEASE

>sp|000566|MPP10\_HUMAN U3 small nucleolar ribonucleoprotein protein MPP10 OS=Homo sapiens  
GN=MPHOSPH10 PE=1 SV=2

MAPQVWRRRTLERCLTEVGKATGRPECFLTIQEGGLASKFTSLTKVLYDFNKILENGRIHG  
SPLQKLVIENFDDEQIQQLQLELQNEPILQYFQNAVSETINDEDISLLPESEEQEREEDGS  
EIEADDKEDLEDLEEEVSDMGNDPEMGERAENSSKSDLRKSPVFSDESDLDLDFDISKL  
EQQSKVQNKGGKPREKSIVDDKFFKLSEMEAYLENIEKEEERKDDNDEEEEDIDFFEDI  
DSDEDEGGLFGSKKLKSGKSSRNLYKDFDPVESDEDITNVHDELDSENKEDDEIAEEE  
AEELSISETDEDDDLQENEDNKQHKESLKRVTFALPDDAETEDTGVLNVKNSDEVKSSF  
EKRQEKMNKIASLEKELLEKKPWQLQGEVTAQKRPENSLLEETLHFDHAVRMAPVITEE  
TTLQLEDIIKQRIQDQAWDDVVRKEPKEDAYEYKRLTLDHEKSKLSLAEIYEQEYIKL  
NQKTAEEENPEHVEIQKMMDSLFLKLDALSNFHFIPKPPVPEIKVVSNLPAITMEEVAP  
VSVSDAALLAPEEIKEKNKAGDIKTAAEKTATDKKRERRKKKYQKRMKIKEKEKRRKLE  
KSSVDQAGKYSKTVASEKLQLTGTGKASFIDEGKDKALKSSQAFFSKLQDQVKMQIND  
AKKTEKKKKKRQDISVHKLKL

>sp|Q96JB8|MPP4\_HUMAN MAGUK p55 subfamily member 4 OS=Homo sapiens GN=MPP4 PE=1 SV=2

MIQSDKGADPPDKDMKLSTATNPQNGLSQILRLVLQELSLFYGRDVNGVCLLYDLLHSP  
WLQALLKIYDCLQEFKEKKLVPAHPAQVLSYEVVELLRETPTSPEIQELRQMLQAPHFK  
ALLSAHDTIAQKDFEPLLPPLDNIPESSEAMRIVCLVKNQQLGATIKRHEMTGDILVA  
RIIHGGLAERSGLLYAGDKLVEVNGVSVEGLDPEQVIHILAMSRGTIMFKVVPVSDPPVN  
SQQMYYVRAMTEYWPQEDPDIPCMDAGLPFQKGDILQIVDQNDALWWQARKISDPATCAG  
LVPSNHLKLRKQREFWWSQPYQPHTCLKSTLSISMEEDDMKIDEKCVAEDEETFESEEL  
SEDKKEEFVGYGQKFFIAGFRSRMRLCRRKSHLSPLHASVCCTGSCYSAVGAPYEEVVRYQ  
RRPSDKYRLIVLMGPGSGVGNELRRQLIEFNPSHFQSAVPHTRTKSYEMNGREYHYVS  
KETFENLIYSHRMLEYGEYKGHLYGTSVDAVQTVLVEGKICVMDLEPQDIQGVRTHELKP  
YVIFIKPSNMRCMKQSRKNAKVIDTYVDMKFDEDLQEMENLAQRMETQFGQFFDHVIV  
NDSLHDACAQLLSAIKKAQEEPQWVPATWISSDTSQ

>sp|Q53F39|MPPE1\_HUMAN Metallophosphoesterase 1 OS=Homo sapiens GN=MPPE1 PE=1 SV=2

MAMIELGFGRQNFHPLKRKSSLLKLIAVVFVALLFCEFLIYYLAIFQCNWPEVKTTASD  
GEQTTREPVLKAMFLADTHLLGEFLGHWLDKLRREWQMERAFQTALWLLQPEVVFILGDI  
FDEGKWSTPEAWADDVERFQKMRHPSHVQLKVVAGNHDIGFHYEMNTYKVERFEKVFSS  
ERLFSWKGINFVMVNSVALNGDGCIGCSETEAELIEVSHRLNCSREARGSSRCGPGPLLP  
TSAPVLLQHYPLYRRSDANCSGEDAAPAEERDIPFKENYDVSREASQKLLWWLQPRVLV  
SGHTHSACEVHHGGRVPELSVPSFSWRNRNPSFIMGSITPTDYTLSCYLPREDVVLII  
YCGVVGFLVVLTLTHFGLLASPFLSGLNLLGKRKTR

>sp|Q86WK9|MPRA\_HUMAN Membrane progesterin receptor alpha OS=Homo sapiens GN=PAQR7 PE=2  
SV=1

MAMAQKLSHLLPSLRQVIQEPQLSLQPEPVFTVDRAEVPPLFWKPYIYAGYRPLHQTWRF  
YFRTLQFQHNEAVNVWTHLLAALVLLRLALFVETVDFWGDHALPLFIIVLASFTYLSF  
SALAHLQAKSEFWHYSFFFLDYVGVAVYQFGSALAHFYAIEPAWHAQVQAVFLPMAAF  
LAWLSCIGSCYNKYIQKPGLLGRTCQEVPSVLAYALDISPVVHRIFVSSDPTTDDPALLY  
HKCQVVFFLLAAAFFSTFMPERWFPGSCHVFGQGHQLFHIFVLCTLAQLEAVALDYEAR  
RPIYEPLHWHPHNFSGLFLLTVGSSILTAFLLSQLVQRKLDQKTK

>sp|Q6WCQ1|MPRIIP\_HUMAN Myosin phosphatase Rho-interacting protein OS=Homo sapiens  
GN=MPRIIP PE=1 SV=3

MSAAKENPCRKFQANIFNKSCKQNCFKPRESHLNDEDLTQAKPIYGGWLLLAPDGTDFD  
NPVHRSRKWQRRFFILYEHGLRLRYALDEMP TTLPQGTINMNQCTDVVDGEGRTGQKFSLC  
ILTPEKEHFIRAETKEIVSGWLEMLMVYPRNTKNQKQKKRKVEPPTPQEPGPAKVAVTSS  
SSSSSSSSSIPSAEKVPTTKSTLWQEEMRTKDQPDGSSLSPAQSPSQSPPAASSLREPG  
LESKEEESAMSSDRMDCGRKVRVESGYFSLEKTKQDLKAEQQQLPPPLSPPSPSTPNHRR  
SQVIEKFEALDIEKAEHMETNAVGPSPSSDTRQGRSEKRAFPRKRDFNEAPPAPLPDAS  
ASPLSPHRRAKSLDRRSTEPSVTPDLLNFKKGWLTQYEDGQWKHWFVLADQSLRYRD  
SVAEEAADLDGEIDLSACYDVTEYPVQRNYGFQIHTKEGEFTLSAMTSGIRRNWIQTIMK  
HVHPTTAPDVTSSLPEEKNSSCSFETCPRPTEKQEAELGEPDPEQKRSRARERRRREGS  
KTFDWAEFRPIQALAQERVGGVPADTHEPLRPEAEPGELERERARRREERRKRFGMLD  
ATDGPGTEDAALRMEVDRSPGLPMSDLKTHNVHVEIEQRWHQVETTPLEEKQVPIAPVH  
LSSEDGGDRLSTHELTSLEKELEQSQKEASDLLEQNRLQLDQLRVALGREQSAREGYVL  
QATCERGFAMEETHQKKIEDLQRQHRELEKLREEKDRLLAEETAATISAIEAMKNAHR  
EEMERELEKSQRSQISSVNSDVEALRRQYLEELQSVQRELEVLESEQYSQKCLENAHLAQA  
LEAERQALRQCQRENQELNAHNQELNNRLAAETRLRTLTDGDDGEATGSPLAQGKDAY  
ELEVLLRVKESEIQYLKQEISSLKDELQTALRDKKYASDKYKDIYTELSIAKAKADCDIS  
RLKEQLKAATEALGEKSPDSATVSGYDIMKSKSNPDFLKKDRSCVTRQLRNIRSKSVIEQ  
VSWDT

>sp|A8MV57|MPTX\_HUMAN Putative mucosal pentraxin homolog OS=Homo sapiens GN=MPTX1 PE=5  
SV=2

MGMYLLHIGNAAVTFNQPTPCPRSPYASTHVNVSWESASGIATLWANGKLVGRKGVWKG  
SVGEEAKIILGQEQDSFGGHFDENQSFVGV IWDVFLWDHVLPPKEMCDSCYSGSLLNRHT  
LTYEDNGYVVTKPKVWA

>sp|O95297|MPZL1\_HUMAN Myelin protein zero-like protein 1 OS=Homo sapiens GN=MPZL1 PE=1  
SV=1

MAASAGAGAVIAAPDSRRWLWSVLAAALGLLTAGVSALEVYTPKEIFVANGTQGKLTCKF  
KSTSTTGGLTSVSWSFQPEGADTTVSFFHYSQGQVYLGNYPPFKDRISWAGDLDDKDA  
NIENMQFIHNGTYICDVKNPPDIVVQPGHIRLYVVEKENLPVFPVWVVVGIVTAVVLGLT  
LLISMILAVLYRRKNSKRDYTGCTSESLSPVKQAPRSPSDTEGLVKSLPSGSHQGPVI  
YAQLDHSGGHSDKINKSESVVYADIRKN

>sp|Q96HT8|MR1L1\_HUMAN MORF4 family-associated protein 1-like 1 OS=Homo sapiens  
GN=MRFAP1L1 PE=1 SV=1

MRPLDIDEVEAPEEEVLEPEEDFEQFLLPVINEMREDIASLIREHGRAYLRTRSKLWEM  
DNMLIQIKTQVEASEESALNHVQHPSGEADERVSELCEKAEKAKEIAKMAEMLVELVWR  
IERSESS

>sp|Q96G30|MRAP2\_HUMAN Melanocortin-2 receptor accessory protein 2 OS=Homo sapiens  
GN=MRAP2 PE=1 SV=2

MSAQRLLISNRTSQSASNSDYTWEEYEEIGPVSFEGKKAHKYSIVIGFWVGLAVFVIFM  
FFVLTLTKTGAPHQDNAESSEKRFMRNSFVSDFGRLPEPKVFSRQGNESRSLFHCYI  
NEVERLDRAKACHQTALDSVQLQEAIRSSGQPEEELNRLMKFDIPNFVNTDQNYFGED  
DLLISEPPIVLETKPLSQTSHKDLD

>sp|Q8TCY5|MRAP\_HUMAN Melanocortin-2 receptor accessory protein OS=Homo sapiens GN=MRAP  
PE=1 SV=2

MANGTNASAPYYSYEYLDYLDLIPVDEKKLKAHKHSIVIAFWVSLAAFVVLLFLILLYM

SWSASPQMRNSPKHHQTCPWSHGLNLHLICIQKCLPCHREPLATSQAQASSVEPGSRTGPD  
QPLRQESSSTLPLGGFQTHPTLLWELTLNGGPLVRSKPSEPPPGDRTSQLQS

>sp|Q9NV56|MRGBP\_HUMAN MRG/MORF4L-binding protein OS=Homo sapiens GN=MRGBP PE=1 SV=1  
MGEAEVGGGAAGDKGPGEAATSPAETVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICI  
RDKFSQNIQRQVPSKVIWDHLSTMYDMQALHESEILPFPNPERNFVLPEEIIQEVREGKV  
MIEEMKEEMKEDVDPHNGADDFSSSGSLGKASEKSSKDKEKNSSDLGCKEGADKRKRS  
RVTDKVLTA NSNPSSPSAAKRRRT

>sp|Q7LOY3|MRRP1\_HUMAN Mitochondrial ribonuclease P protein 1 OS=Homo sapiens GN=TRMT10C  
PE=1 SV=2  
MAAFLKMSVSVNFFRPFTRFLVPFTLHRKRNNLTILQRYMSSKIPAVTYPKNESTPPSEE  
LELDKWKTTMKSSVQEECVSTISSKDEDPLAATREFIEMWRLGREVPEHITEELKTL  
MECVSNTAKKKYLKYLYTKEKVKKARQIKKEMKAAAREEAKNIKLLETTEEDKQKNFLFL  
RLWDRNMDIAMGWKGAQAMQFGQPLVFD MAYENYMKRKELQNTVSQLESEGWNRRNVDP  
FHIYFCNLKIDGALHRELVKRYQEKWKLLLTSTEKSHVDLFPKDSIIYLTADSPNVMTT  
FRHDKVYVIGSFVDKSMQPGTSLAKAKRLNLATECLPLDKYLQWEIGNKNLTLDQMIRIL  
LCLKNNGNWQEALQFVPRKHGTGFLEISQHSQEFINRLKKAKT

>sp|POC860|MSL3L2\_HUMAN Putative male-specific lethal-3 protein-like 2 OS=Homo sapiens  
GN=MSL3P1 PE=5 SV=1  
MPDRACAVGSVARALSRSRRYVCARDADASRRRRRPFNYGLSIEEKNENDENSLSSSSDS  
SEDKDEKISEECDIEEKTEVKEEPELQTKREMEERTVTLEIPEVLKRQLEDDCYINRRK  
RLVQLPCHTNIITILES YVKHFAISAAFSANERPRHHHAMPHASMNVPYIPAENIDLCK  
EMVDGLRITFDYTLPLVLLYPYEQAYKKVTASKVFLAIKESATNTNRSQEKLSPSLRLL  
NPSRPQSTESQSTSGEPATPKRRKAEPQAVQSLRRSSPHTANDRLSKSSTSPQPKRWQQ  
DMSTSVPKLFHLEKTPVHSRSSPTLTSPQEGSPVFAGFEGRTNEINEVLSWKLPD  
NYPPGDQPPPPSYIYGAQHLLRLFVKLPEILGKMSFTEKNLALLKHFDLFVRFLAEYHD  
DFFPESAYVAASEVHYSTRNPQAVNKC

>sp|Q96BX8|MOB3A\_HUMAN MOB kinase activator 3A OS=Homo sapiens GN=MOB3A PE=1 SV=1  
MSNPFLKQVFNKDKTFRPKRFEPGTQRFELHKKAQASLNAGLDLRLAVQLPPGEDLNDW  
VAVHVVDFFNRVNLIYGTISDGCTEQSCPVMSSGPKYEYRWQDEHKFRKPTALSAPRYMD  
LLMDWIEAQINNEDLFPTNVGTPFPKNFLQTVRKILSRLFRVHVHYIHHFDRIAQMGE  
AHVNTCYKHFFYFVKEFGLIDTKELEPLKEMTARMCH

>sp|O96007|MOC2B\_HUMAN Molybdopterin synthase catalytic subunit OS=Homo sapiens GN=MOCS2  
PE=1 SV=1  
MSSLEISSSCFSLETKLPLSPPLVEDSAFEP SRKDMDEVEEKS KDVINF TAEKLSVDEVS  
QLVISPLCGAISLFGVTTRNNFEGKKVISLEYEAYLPMAENEVRKICSDIRQKWPVKHIA  
VFHRLGLVPVSEASIIIAVSSAHRAASLEAVSYAIDTLKAKVPIWKKEIYESSTWKGNK  
ECFWASNS

>sp|Q9HD47|MOG1\_HUMAN Ran guanine nucleotide release factor OS=Homo sapiens GN=RANGRF  
PE=1 SV=1  
MEPTRDCPLFGGAFSAILPMGAIDVSDLRPVPDNQEVFCHPVTQSLIVELLELQAHVRG  
EAAARYHFEDVGGVQGARAVHVESVQPLSLENLALRGRCQEAWSLGGKQQIAKENQQVAK  
DVTLHQALLRLPQYQTDLLLTFNQPPPDNRSSLGPENLSPAPWSLGD FEQLVTS LTLHDP  
NIFGPQ

>sp|P45985|MP2K4\_HUMAN Dual specificity mitogen-activated protein kinase kinase 4 OS=Homo sapiens GN=MAP2K4 PE=1 SV=1

MAAPSPSGGGGSGSGSGTPGPVGPSPAGHPAVSSMQGKRKALKLNFNPPFKSTARFT  
LNPNTGVQNPHERLRTHSIESSGKLKISPEQHWDFTAEDLKDLGEIGRGAYGSVNKMV  
HKPSGQIMAVKRIRSTVDEKEQKQLMDLDVVMRSSDCPYIVQFYGALFREGDCWICMEL  
MSTSFDFKYKYVYSVLDDVIPEEILGKITLATVKALNHLKENLKI IHRDIKPSNILLDRS  
GNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSASRQGYDVRSVWSLGITLYEL  
ATGRFPYPKWNSVFDQLTQVVGDPQLSNSEEREFSFSFINFVNLCLTKDESKRPKYKE  
LLKHPFILMYEERAVEVACYVCKILDQMPATPSSPMYVD

>sp|Q9Y5U8|MPC1\_HUMAN Mitochondrial pyruvate carrier 1 OS=Homo sapiens GN=MPC1 PE=1 SV=1

MAGALVRKAADYVRKDFRDYLMSTHFWGPVANWGLPIAAINDMKKSPEIISGRMTFALC  
CYSLTFMRFAVKVQPRNLLFACHATNEVAQLIQGGRLIKHEMTKTASA

>sp|O95563|MPC2\_HUMAN Mitochondrial pyruvate carrier 2 OS=Homo sapiens GN=MPC2 PE=1 SV=1

MSAAGARGLRATYHRLLDKVELMLPEKLRPLYNHPAGPRTVFFWAPIMKWGLVCAGLADM  
ARPAEKLSTAQSAVLMATGFIWSRYSLV IIPKNWSLFAVNFVGAAGASQLFRIWRYNQE  
LKAKAHK

>sp|O75352|MPU1\_HUMAN Mannose-P-dolichol utilization defect 1 protein OS=Homo sapiens  
GN=MPDU1 PE=1 SV=2

MAAEADGPLKRLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLP  
QVFKILGAKSAEGLSLQSVMLELVALTGTMYVSITNFPFSSWGEALFLMLQTITICFLV  
MHYRGQTVKGVAFLACYGLVLLVLSPLTPLTVVTLQASNPAVVVGRLQAATNYHNG  
HTGQLSAITVFLFGGSLARIFTSIQETGDPLMAGTFVSSLCNGLIAAQLLFYWNAKPP  
HKQKKAQ

>sp|Q9Y5S2|MRCKB\_HUMAN Serine/threonine-protein kinase MRCK beta OS=Homo sapiens  
GN=CDC42BPB PE=1 SV=2

MSAKVRLKKLEQLLLDGPRNESALSVETLLDVLVCLYTECSHSALRRDKYVAEFLEWAK  
PFTQLVKEMQLHREDFEI IKVIGRGAFGEVAVVKMKNTERIYAMKILNKWEMLKRAETAC  
FREERDVLVNGDCQWITALHYAFQDENHLYLVMDYYVGGDLLTLLSKFEDKLPEDMARFY  
IGEMVLIDS IHQLHYVHRDIKPDNVLLDVNGHIRLADFGSCLKMNDGTVQSSVAVGTP  
DYISPEILQAMEDGMGKYGPECDWWSLGVCMEMLYGETPFYAESLVETYGKIMNHEERF  
QFPSHVTDVSEEAKDLIQRILCSRRRLGQNGIEDFKKHAFEGLNWENIRNLEAPYIPD  
VSSPDSITSNFDVDDDLRNTEILPPGSHTGFSGHLHPFIGFTFTTESCFSDRGLKSIMQ  
SNTLT KDEDVQRDL EHS LQMEAYERRIRRL EQEKL ELSRKLQESTQTVQSLHGSSRALSN  
SNRDK EIKKLN EIERLKNKIADSNRLERQLEDTV ALRQEREDSTQRLRGLEKQHRVVRQ  
EKEELHKQLVEASERLKSQAKELKDAHQQRKALQEFSELNERMAELRAQKQKVSRLRD  
KEEEME VATQKVDAMRQEMRRAEKL RKELEAQLDDAVAEASKERKLREHSENFCKQMESE  
LEALKVKQGGRGAGATLEHQQEISKIKSELEKKVLFYEEELVRREASHVLEVKNVKEVH  
DSESHQLALQKEILMLKDKLEKSKRERHNEMEEAVGTIKDYERERAMLFDENKKLTAEN  
EKLC SFVDKLTAQNRQLEDELQDLAAKESVAHWAEQIAEIIQWVSDEKDARGYLQALAS  
KMTEELEALRSSSLGSRTLDPLWKVRRSQKLDMSARLELQSALEAEIRAKQLVQEELRKV  
KDANLTLESKLDSEAKNRELLEEMEILKKKMEEKFRADTGLKLPDFQDSIFEYFNTAPL  
AHDLTFR TSSASEQETQAPKPEASPSMSVAASEQQEDMARPPQRPSAVPLPTTQALALAG  
PKPKAHQFSIKFSSTQC SHCTSLMVGLIRQGYACEVCSFACHVSCKDGAPQVCPIPPE  
QSKRPLGVDVQRGIGTAYKGHV KVPKPTGVKKGWQRAYAVVCDCKLFLYDLPEGKSTQPG

VIASQVLDLRDEFSVSSVLASDVIHATRRDIPCFRVTASLLGAPSKTSSLLILTENEN  
EKRWVGIIEGLQSIHKNRLRNQVHVPLEAYDSSLPLIKAILTAAIVDADRIAVGLEE  
GLYVIEVTRDVIVRAADCKKVHQIELAPREKIVILLCGRNHVHLYPWSSLDGAEGSFDI  
KLKETKGCQLMATATLKNSGTCLFVAVKRLILCYEIQRTPFHRKFNEIVAPGSVQCLA  
VLRDRLCVGYPSGFCLLSIQGDGQPLNLVNPNDPSLAFLSQQSFDALCAVELESEYYLLC  
FSHMGLYVDPQGRRARAEQELMWPAAPVACSCSPHTVTVYSEYGVDFDVRTMEWVQTIGL  
RRIRPLNSEGTLLNLCNCEPPRLIYFKSKFSGAVLNVPDTSNKKQMLRTRSKRRFVFKV  
PEEERLQQRREMLRDPPELRSMISNPTNFNHVAHMGPGDGMQVMDLPLSAVPPSQEERP  
GPAPTNLARQPPSRNKPYISWPSSGGSEPSVTVPLRMSDPDQDFDKEPDSSTKHSTPS  
NSSNPSGPPSPNSPHRSQPLLEGLEQPACDT

>sp|Q6DT37|MRCKG\_HUMAN Serine/threonine-protein kinase MRCK gamma OS=Homo sapiens  
GN=CDC42BPG PE=1 SV=2

MERRLRALEQLARGEAGGCPGLDGLDLLLALHHELSSGPLRRERSVAQFLSWASPFVSK  
VKELRLQRDDFEILKVIIGRAFGEVTVVRQRDTGQIFAMKMLHKWEMLKRAETACFREER  
DVLVKGDSRWVTTLHYAFQDEEYLYLVMYYAGGDLTLLSRFEDRLPELAQFYLAEMV  
LAHSLHQLGYVHRDVKPDNVLDDVNGHIRLADFGSCLRLNTNGMVDSSVAVGTPDYISP  
EILQAMEEGKGHYGPQCDWWSLGVCAVELLFGETPFYAESLVETYGKIMNHEDHLQFPPD  
VPDVPASAQDLIRQLLQRQEERLGRGGLDDFRNHPPFEGVDWERLASSTAPYIPELRGPM  
DTSNFDVDDDTLNPGLTPPPSHGAFSGHLLPFVGFYTSKSHSPESSEAWAALERKLQ  
CLEQEKVELSRKHQEAHAPTDRHLEQLRKEVQTLRDRLPEMLRDKASLSQTDGPPAGS  
PGQDSDLRQELDRHLEAEGRAGLQAQEQELCRAQQQEEELLQRLQEAQEREAATASQT  
RALSSQLEEARAAQRELEAQVSSLSRQVTQLQGQWEQRLEESSQAKTIHTASETNGMGPP  
EGGPQEAQLRKEVAALRELEQAHSRPSGKEEALCQLQENRRLSREQERLEAELAQEQ  
ESKQRLEGERRETESNWEAQLADILSWVNDEKVSRYGLQALATKMAEELESRLNVGTQTL  
PARPLDHQWKARRLQKMEASARLELQSALEAEIRAKQGLQERLTQVQEAQLQAERRLQEA  
EKQSQALQQELAMLREELRARGPVDTKPSNSLIPFLSFRSSEKDSAKDPGISGEATHGG  
EPDLRPEGRRSLRMGAVFPAPTANTASTEGLPAKPGSHTLRPRSFPSPKCLRCTSLML  
GLGRQGLGCDACGYFCHTTCAPQAPPCVPPDLLRTALGVHPETGTGTAYEGFLSVPRPS  
GVRRGWQRVFAALSDSRLLLFDAPDLRLSPPSGALLQVLDLRDPQFSATPVLASDVIHAQ  
SRDLPRIFRVTTSQLAVPPTTCTVLLAESEGERERWLQVLGELQRLLLDARPRPRPVYT  
LKEAYDNGLPLLPHTLCAAILDQDRLALGTEGLFVIHLRSNDIFQVGECCRRVQQLTLSP  
SAGLLVVLGCRGPSVRLFALAELENIEVAGAKIPESRGCQVLAAGSILQARTPVLCVAVK  
RQVLCYQLGPGPGPWQRRIRELQAPATVQSLGLLGDRLCVGAAGGFALYPLLNEAAPLAL  
GAGLVPEELPPSRGGLGEALGAVELSLSEFLLLFTTAGIYVDGAGRKSRGHELLWPAAPM  
GWGYAAPYLTVFSENSIDVFDVRRAEWVQTVPLKKVRPLNPEGSLFLYGTEKVRLTYLRN  
QLAEKDEFDIPDLTDNSRRQLFRTKSKRRFFFRVSEEQQKQQRREMLKDPFVRSKLISPP  
TNFNHLVHVGPANGRPARGDKSPAPEEKGRVARGSGPQRPHSFSEALRRPASMGSEGLGG  
DADPMKRKPWTSLSSSESVSCPQGSLSPATSLMQVSRPRSLPSPELESSP

>sp|Q9Y2G1|MRP\_HUMAN Myelin regulatory factor OS=Homo sapiens GN=MYRF PE=1 SV=3

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HGQPAMPGSSGVHHLSPPGGGPSGRHGPLPPPGYGTPLNCNNNGMGAAPKPFPGGTGP  
PIKAEPKAPYAGTLPDSDPDGSEAYSPQQVNEPHELLRTITPETLCHVGVPRLHPPPP  
PPAHLPGPPPPPPPPHYVPLQRDLYMKAEPPIPHYAAMGQGLVPTDLHHTQQSQMLHQL  
LQQHGAELPTHPSKKRKHSESPSTLNAQMLNGMIKQEPGTVTALPLHPTRAPSPWPWPQ



GPLSPGPGSLPLSIARVQTPPWHPGAPSPGLLQSDSLSGSLDPNYQSIKWQPHQQNK  
WATLYDANYKELPMLTYRVDADKGFNFVSGDDAFVCQKKNHFQVTYIIGMLGEPKYVKTP  
EGLKPLDCFYCLKHGVKLEALNQSINIEQSQSDRSKRPFNPVTNLPPEQVTKVTVGRLH  
FSETTANMRKKGKPNPDQRYFMLVVALQAHAQNQNYTLAAQISERIIVRASNPGGFESD  
SDVLWQRAQVPDVFHHGRVGINTDRPDEALVVHGNVKVMGSLMHPSDLRAKEHVQEVD  
TEQLKRISRMRLVHYRYKPEFAASAGIEATAPETGVIAQEVKEILPEAVKDTGDMVFANG  
KTIENTLVVNERIFMENVGAVKELCKLTDNLETRIDELERWSHLAKLRRLDSLKSTGS  
SGAFSHAGSQFSRAGSVPHKKRPPKVASKSSSVVPDQACISQRFLQGTIIALVVVMAFSV  
VSMSTLYVLSLSTEEDLVDTGDSFAVSTSCLLALLRPQPPGGSEALCPWSSQSFGTTQLR  
QSPLTTGLPGIQPSLLLVTSTLSSAPGSAVRTLDMCSSHPCPVICSSPTTNPTTGPSL  
GPSFNPGHVLSPSPSTNRSGPSQMALLPVTNIRAKSWGLSVNGIGHSKHHKSLEPLAS  
PAVPFPGGQKAKNSPSLGFHGRARRGALQSSVGPAEPTWAQGQSASLLAEPVPSLTSIQ  
VLENSMSITSQYCAPGDACRPGNFYHIPVSSGTPLHLSLTLQMNSSPVSVVLCSLRSK  
EPECSEGLPQSLHTHQDTQGTSHRWPITILSFREFTYHFRVALLGQANCSSEALAQPAT  
DYHFHFYRLCD

>sp|Q96LB2|MRGX1\_HUMAN Mas-related G-protein coupled receptor member X1 OS=Homo sapiens  
GN=MRGPRX1 PE=1 SV=1

MDPTISTLDTELTPIINGTEETLCYKQTLSTVLTCTIVSLVGLTGNVAVLWLLGCRMRRNA  
FSIYILNLAAADFLFLSGRLIYSLLSFISIPHTISKILYPVMMFSYFAGLSFLSAVSTER  
CLSVLWPIWYRCHRPHTLSAVVCVLLWALSLLRSILEWMLCGFLFSGADSAWCQTSDFIT  
VAWLIFLCVVLGSSSLVLLIRILCGSRKIPLTRLYVTILLTVLVFLLCGLPFGIQFFLFL  
WIHVDREVLFCVHVLVSIFLSALNSSANPIIYFFVGSRQRQRQNLKLVLRALQDASE  
VDEGGGQLPEEILELSGSRLEQ

>sp|Q96LB0|MRGX3\_HUMAN Mas-related G-protein coupled receptor member X3 OS=Homo sapiens  
GN=MRGPRX3 PE=2 SV=2

MDSTIPVLGTELTPIINGREETPCYKQTLSTGLTCTIVSLVALTGNVAVLWLLGCRMRRNA  
VSIYILNLVAADFLFLSGHIIICSPRLINIRHPISKILSPVMTFPYFIGLSMLSAISTER  
CLSILWPIWYHCRPRYLSSVMCVLLWALSLLRSILEWMFCDFLFGANSVWCETSDFIT  
IAWLVLFCVVLGSSSLVLLVRILCGSRKMPLTRLYVTILLTVLVFLLCGLPFGIQWALFS  
RIHLDWKVLFCHVHLVSIFLSALNSSANPIIYFFVGSRQRQRQNLKLVLRALQDTPE  
VDEGGGWLPQETLELSGSRLEQ

>sp|Q7Z745|MRO2B\_HUMAN Maestro heat-like repeat-containing protein family member 2B  
OS=Homo sapiens GN=MROH2B PE=2 SV=3

MTLSTEESIEMFGDINLTGLMLNKEDIVNKEDIYSHLTSVIQNTDILDDAIVQRLIYYAS  
KMDRDNMLREIRMLAGEVLVSLAAHDFNSVMYEVQSNFRILELPDEFVVLALAEALTSY  
VSQSI PFMMMTLLTMQTMLRLAEDERMKGTFCIALEKFSKAIYKYVNHWRDFPYPRLDAN  
RLSDKIFMLFWYIMEKWAPLASPMQTLISVKAHGPTVSLLLHREDFRGYALGQVPWLLNQ  
YKDKCIDFHVTQSLKQILTAADVLDIGLPRSLRRSIFINLLQQICRAPEPPVKENEMKAS  
SCFLILAHSNPGELMEFFDEQVRSNNEAIRVGILTLRLAVNADEPLRDHIIISIERTVK  
IVMGDLSTKVRNSVLLLIQTMCEKSYIEAREGWPLIDYVFSQFATLNRNLEKPVKTNFHE  
NEKEEESVRETSLEVLKTLDPVIGMPQVLWPRILTFVVPAYTEALEPLFSIIRILIMA  
EEKKQHSAKESTALVVSTGAVKLPSQQLLARLLVISMPASLGELRGAGATGLLKILPEI  
IHPKLVLDWKTRLPPELLQPLEGKNISTVLWETMLLQLLKESLWKISDVAWTIQLTQDFKQ  
QMGSYSNNSTEEKFLWKALGTTLACCQSDSFVNSQIKEFLTAPNQLGDQRQGITSILGYC

AENHLDIVLKVLTQFQNEKFFMNRCKSLFSGKSLTKTDVMIYGAVALHAPKKQLLSR  
LNQDIISQVLSLHGQCSQVLGMSVMNKDMDLQMSFTRSITEIGIAVQDAEDQGFQFSYKE  
MLIGYMLDFIRDEPLDSLASPIRWKALIAIRYLSKLPQLSLQDHLNILEENIRRLPLP  
PLENLKSEGQTDKDEHIQFLYERSMDALGKLLKTMWDNVNAEDCQEMFNLLQMWLVSQ  
KEWERERAFQITAKVLTNDIEAPENFKIGSLLGLLAPHSCDTLPTIRQAAASSTIGLFYI  
KGIHLEVERLQGLQEGLESDDVQVQIKISSKIAKIVSKFIPNEEILMFLEEMLDGLES LN  
PTCTKACGIWMITVLKQQALEDQLEILGTIYHMPVLRQKEESFQFILEAISQIASF  
HMDTVVNNLLQKPLPFDRDTKTLWKALAEKPASSGKLLQALIDKLETELEDDIARVEAIS  
VACAMYEVISMGTSTGLYPELFTLLKLVSCTLGQKMLTCPWSHRRHVMQQGEQQQIPD  
PCRLSTATLKCLQAQAMREGLAKESDEGDNLTLLSSPSTHHIGVCSLARSMAVWQHGV I  
LDIMEQLSSLTSSSENYRITGAFFSELMKEPILWKHGNNRNLILMDQSAWDSNATLR  
QMAIRGLGNTASGAPHKVKKKQLMLESIIIRGLYHLARTEVVCESLKALKKILELLTDRD  
VSFYFKEIVLQTRTFEDEDVRLTAIFLFEDLAPLTGRRWKIFFAEEIKKSLISFLH  
LWDPNPKIGVACRDVLMVCIPFLGLQELYGVDRLDQDLPRARDFYRQFCVKLAKKNQE  
ILWILHTSFTFTSTWEVIRSAVKLTDAVVLNLT SQYVELLDREQLTTRLQALRQDPC  
ISVQRAAEALQTLLRRCKETS IPL

>sp|Q6ZUA9|MROH5\_HUMAN Maestro heat-like repeat family member 5 OS=Homo sapiens GN=MROH5  
PE=2 SV=2

MDRQCSERPYSCTPTGRVSSAVSQNSRISPPVSTSMKDSSCMKVHQSARRDRWSHPTTI  
LLHKSQSSQATLMLQEHRMFMGEAYSAAATGFKMLQDMNSADPFHLKYI IKKIKNMAHGSP  
KLVMETIHDYFIDNPEISSRHKFRLFQTLEMVIGASDVLEETWEKTFTRLALENMTKATE  
LEDIYQDAASNMLVAICRHSWRVVAQHLETELLTGVFPHRSLLYVMGVLSSEELFSQED  
KACWEEQLIQMAIKSVPFLLSTDVWSKELLWTLTPSWTQQEQSPEKAFLFTYYGLILQAE  
KNGATVRRHLQALLETSHQWPKQREGMALTLGLAATRHLDVWAVLDQFGRSRPIRWSLP  
SSSPKNSDLRWKASSTILLAYGQVAAKARAHILPVDNIVSRMVFYFHYSSWDETLKQ  
SFLTATLMLMGAVSRSEGAHSYEFFQTSELLQCLMVLMEKEPQDTLCTRSRQQAMHIASS  
LCKLRPPIDLERKSQLLSTCFRSVFALPLDLEKHTCLFLEPPNIQLWPVARERAGWTH  
QGWGPRAVLHCSEHLQSLYSRTMEALDFMLQSLIMQNPTADELHFLLSHLYIWLASEKAH  
ERQRAVHSCMILLKFLNHNHGYLDPKEDFKRIGQLVGILGMLCQDPDRATQRCSELEGASHL  
YQLLMCHKTEALQAESQAPKELSQAHS DGAPLWNSRDQKATPLGPQEMAKNHIFQLCSF  
QVIKDIMQQLT LAELSDLIWTAIDGLGSTSPFRVQAASEMLLTAVQEHGAKLEIVSSMAQ  
AIRLRLCSVHIPQAKEKTLHAITLLARSHTCEL VATFLNIS IPLDSHTFQLWRALGAGQP  
TSHLVLTLLACLQERPLPTGASDSSPCPEKTYLRLLAAMNMLHELQFAREFKQAVQEG  
YPKLFLALLTQMHYVLELNLSEPQPKQQAQEA AVSPQSCSTSLAALKSLLSTTGHWH  
FAHLELQGSWELFTTIHTYPKGVGLLARAMVQNHCRQIPAVLRQLLPSLQSPQERERKVA  
ILILTKFLYSPVLLLEVL PKQAALT VLAQGLHDPSPPEVRVLSLQGLSNILFHPDKGSLLQG  
QLRPLLDGFFQSSDQVIVCIMGTVSDTLHRLGAQGTGSQSLGVAISTRSFNNDERDGIRA  
AAMALFGDLVAAMADREL SGLRTQVHQSMVPLLLHLKDQCPAVATQAKFTFYRCVALLRW  
RLHHTLFTCLAWERGLSARHFLWTCLMTRSQE EFSIHLSQALSYLHSHSCHIKTWTLFI  
GHTICYHPQAVFQMLNAVDTNLLFRTFEHLRSDPEPSIREFATSQSLFQKVSARPKQ

>sp|Q5TGP6|MROH9\_HUMAN Maestro heat-like repeat-containing protein family member 9  
OS=Homo sapiens GN=MROH9 PE=2 SV=1

MLTRNPKTKSSLQILQDSVKWHHMAHKVNSLLDAYSGLLSNESMILAVNSSFVDPLLQFE  
SQLKIIESSFGMLVVMPSLDKVKEMGSSYEYIEDMENLYHNILNIYENILTSLVSKDLYK

LQILKEMLVWMSKDSSYLQERIMVIINKVLRFVTKVRKYISVDAPCLGLLAAELSLCS  
HEDPSIVKQASLGMCHLLYIARCQNDIGTNKPTNGKSHSLQFPSSDVEFLPKEFQQDESK  
IAQRVGGTLLPPLTDFVQSLLMKLSSPDDKIASDAASILIFTLEFHAEKVTMVSIVDA  
IYRQLCDNNCMKDVMLQVITLLTCTSPKKVIFQLMDYPVPADDTLIQMWKAACSQASVAP  
HVLKTILLILKGKPGEMEDTVTEGKRFSLDITNLMPLAACQALCTFLPLGSYRKAVAQYF  
PQLLTLMFQVFYNSELKPILKDRALYAQDALRVLLNCSGLQQVDITLMKENFWDQLSED  
LCYHYGVCFIAKTLSEYNFPQFPETLSYLYKLSVEGPRRSEDTVIVLIFLTEVSFVDCEQ  
LCSHFLFLPKFKSKFQFLVSLPLNVGSYQDLRS

>sp|Q96DH6|MSI2H\_HUMAN RNA-binding protein Musashi homolog 2 OS=Homo sapiens GN=MSI2 PE=1 SV=1

MEANGSQGTSGSANDSQHDPGKMFIGGLSWQTSPLRDYFSKFGEIRECMVMRDPPTKR  
SRGFGFVTFADPASVDKVLGQPHHELDSTIDPKVAFPRRAQPKMVRTKKIFVGGLSAN  
TVVEDVKQYFEQFGKVEDAMLFDKTTNRHRGFGFVTFENEDVVEKVCEIHFHEINNKMV  
ECKKAQPKVEMFPPGTRGRARGLPYTMDAFMLGMGMLGYPNFVATYGRGYPGFAPSQYQ  
FPGFPAAAYGPVAAAATAARGSGSNPARPGGFGANSPGPVADLYGPASQDSGVGNYS  
AASPQPGSGFGHGIAGPLIATAFTNGYH

>sp|P08118|MSMB\_HUMAN Beta-microseminoprotein OS=Homo sapiens GN=MSMB PE=1 SV=1

MNVLLGSVVIFATFVTLCNASCYFIPNEGVPDSTRKCMDLKGNKHPINSEWQTDNCETC  
TCYETEISCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVSEWII

>sp|Q1L6U9|MSMP\_HUMAN Prostate-associated microseminoprotein OS=Homo sapiens GN=MSMP PE=1 SV=1

MALRMLWAGQAKGILGGWGIICLVMSLLLQHPGVYSKCYFQAQAPCHYEGKYFTLGESWL  
RKDCFHCTCLHPVGVGCCDTSQHPIDFPAGCEVRQEAGTCQFSLVQKSDPRLPCKGGGPD  
PEWGSANTPVPGAPAPHS

>sp|P24347|MMP11\_HUMAN Stromelysin-3 OS=Homo sapiens GN=MMP11 PE=1 SV=3

MAPAAWLRSAAARALLPPMLLLLLQPPPLLARALPPDAHHLHAERRGPQPWHAALPSSPA  
PAPATQEAPRPASSLRPPRCGVPDPSDGLSARNRQKRFLVSGGRWEKTDLTyrILRFPWQ  
LVQEQRVQTMAEALKVWSDVPLTFTEVHEGRADIMIDFARYWHGDDLFPDGGGILAHA  
FFPKTHREGDVHFDYDETWIGDDQGTDLQVAAHEFGHVLGLQHTTAAKALMSAFYTFR  
YPLSLSPDDCRGVQHLYGQPWPTVTSRTPALGPQAGIDTNEIAPLEPDAPPDACEASFDA  
VSTIRGELFFFKAGFVWRLRGGLQPGYPALASRHWQGLPSPVDAAFEDAQGHIWFFQGA  
QYWVYDGEKPVLPAPLTELGLVRFPVHAALVWGPEKNKIYFFRGRDYRWFHPSTRRVDS  
PVPRRATDWRGVPSEIDAAFQDADGYAYFLRGRLYWKFDPVKVKALEGFPRLVGPDPFFGC  
AEPANTFL

>sp|P51512|MMP16\_HUMAN Matrix metalloproteinase-16 OS=Homo sapiens GN=MMP16 PE=1 SV=2

MILLTFSTGRRLDFVHSGVFFLQTLWILCATVCGTEQYFNVEVWLQKYGYLPPTDPRM  
SVLRSaETMQSALAAMQQFYGINMTGKVDRNTIDWMKKPRCGVPDQTRGSSKFHIRRKRY  
ALTGQKWQHKHITYSIKNVTPKVGDPETRKAIRRAFDVWQNVTPLTfEEVPYSELENGKR  
DVDITIIIFASGFHGDSSPFDGEGFLAHAYFPGPGIGDTHFDSDEPWTLGPNHGDNDL  
FLVAVHELGHALGLEHSNDPTAIMAPFYQYMETDNFKLPNDLQGIQKIYGPPDKIPPPT  
RPLPTVPPHRSIPPADPRKNDRPKPPRPPTGRPSYPGAKPNICDGNFNTLAILRREMFVF  
KDQWFWRVRNRMVDGYPMQITYFWRGLPPSIDAVYENS DGNFVFFKGKNKYWVFKDTTLQ  
PGYPHDLITLGSIPPHGIDSAIWVEDVGKTYFFKGDRYWRYSSEEMKMDPGYPKPIVW  
KGIPESPQGAFVHKENGFTYFYKGKEYWKFNNQILKVEPGYPRSILKDFMGCDGPTDRVK

EGHSPPDDVDIVIKLDNTASTVKAIAIVIPCILALCLLVVYTVFQFKRKGTPRHILYCK  
RSMQEWV

>sp|P08254|MMP3\_HUMAN Stromelysin-1 OS=Homo sapiens GN=MMP3 PE=1 SV=2

MKSLPILLLLCVAVCSAYPLDGAARGEDTSMNLVQKYLENYDDLKKDVKQFVRRKDSGPV  
VKKIREMQKFLGLEVTGKLDSDTLEVMRKPRCGVPDVGHFRTPGIPKWRKTHLYRIVN  
YTPDLPKDAVDSAVEKALKVWEEVTPLTFSRLYEGEADIMISFAVREHGDFYFPDGP  
GNV LAHAYAPGPGINGDAHFDDDEQWTKD TTGTNLFVAAHEIGHSLGLFHSANTEALMYPLY  
HSLTDLTRFRLSQDDINGIQSLYGPSPDPETPLVPTEPVPEPGTPANCDPALSFD  
AVS TLRGEILIFKDRHFWRKSLRKLEPELHLISSFWPSLPSGVDAAYEVTSKDLVFIKGNQF  
WAIRGNEVRAGYPRGIHTLGFPTVRKIDAAISDKEKNKTYFFVEDKYWRFDEKRN  
SMEP GFKQIAEDFPGIDSKIDAVFEEFGFFYFFTGSSQLEFDPNAKKVTHTLKSNSW  
LNC

>sp|P22894|MMP8\_HUMAN Neutrophil collagenase OS=Homo sapiens GN=MMP8 PE=1 SV=1

MFSLKTLPFLLLLHVQISKAPVSSKEKNTKTVDYLEKFYQLPSNQYQSTRKNGTNVIV  
EKLKEMQRFFGLNVTGKPNEETLDMKKPRCGVPDSGGFMLTPGNPKWERTNLYRIRNY  
TPQLSEAEVERAIKDAFELWSVASPLIFTRISQGEADINIAFYQRDHGDN  
SPFDGPNGIL AHAFQPGQGIGGDAHFDAEETWTNTSANYNLFVAAHEFGHSLGLAHSSDPGALMYPNYA  
FRETSNYSLPQDDIDG IQAIYGLSSNPIQPTGPSTPKPCDPSLTFDAITTLRGEILFFKD  
RYFWRHPQLQRVEMNFISLFWPSLPTGIQAAYEDFDRDLIFLFKGNQYWALSGYDILQG  
YPKDISNYGFPSSVQAIDAAVFYRSKTYFFVNDQFWRYDNQRQFM  
EPGYPKSISGAFFGI ESKVDAVFQQEHFFHVFSGPRYYAFDLIAQRVTRVARGNKWLNCRYG

>sp|P14780|MMP9\_HUMAN Matrix metalloproteinase-9 OS=Homo sapiens GN=MMP9 PE=1 SV=3

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLPFGLRTNL TDRQLAEEYLYRYGYTRVAEM  
RGESKSLGPALLLLQKQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHHN  
ITYWIQNYSEDLPRVIDDAFARAFALWSAVTPLTFTRVYSRDADIVIQFGVAEHGDGYP  
FDGKDGLLAHAFPPGPGIQGDAHFDDDELWSLGKGVVVPTRFGNADGAACHFPFIFEGRS  
YSACTDGRSDGLPWCSTTANYD TDRFGFCPSERLYTQDGNADGKPCQFPFIFQQGSYS  
ACTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYST  
CTSEGRGDGRLWCATTSNFSDSKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMY  
PMYRFTEGPPLHKDDVNGIRHLYGPRPEPEPRPPTTTTPQTAPPTVCPTGPPTVHP  
SER PTAGPTGPPSAGPTGPPTAGPSTATTVP LSPVDDACNVNIFDAIAEIGNQLYLFDKGKYW  
RFSEGRGSRPQGPF LIADKWPALPRKLD SVFEERLSKKLFFFSGRQVWVYT GASVLGPRR  
LDKLG LGADVAQVTGALRSRGKMLLFSGRRLWRFDVKAQMVDP RSASEVDRMFPGVPLD  
THDVFQYREKAYFCQDRFYWRVSSRSELNQVDQVGYVTYDILQCPED

>sp|Q9H8L6|MMRN2\_HUMAN Multimerin-2 OS=Homo sapiens GN=MMRN2 PE=1 SV=2

MILSLLFSLGGPLGWGLLGAWAQASSTLSLDLQSSRTPGVWKA EAEDTGKDPVGRNWCPY  
PMSKLVTLALCKTEKFLIHSQQPCPQGAPDCQKVKV MYRMAHKPVYQVKQVLTSLAWR  
CCPGYTGPNCEHHD SMAIPEADPGDSHQEPQDGPVSFKPGHLAAVINEVEVQQEQQEHL  
LGDLQNDVHRVADSLPGLWKALPGNL TAAVMEANQTGHEFPDRSLEQVLLPHVDTFLQVH  
FSPIWRSFNQSLHSLTQAIRNLSLDVEANRQAISR VQDSAVARADFQELGAKFEAKVQEN  
TQRVGQLRQDVEDRLHAQHFTLHRSISELQADVDTKLRLHKAQEAPGTNGSLVLATPGA  
GARPEPDSLQARLGQLQRNLSLHMTTARREEELQYTLEDMRATLTRHVDEIKELYESD  
ETFDQISKVERQVEELQVNHTALRELRVILMEKSLIMEENKEEVERQLLELNLTLQHLQG  
GHADLIK YVKDCNCQKLYLDLDVIREGQRD ATRALEETQVSLDERRQLD GSSQLALQNAV  
DAVSLAVDAHKAEGEGERARAATSRLRSQVQALDDEVGALKAAAAEARHEVRQLHSAFAALL

EDALRHEAVLAALFGEEVLEEMSEQTPGPLPLSYEQIRVALQDAASGLQEALGWDELAA  
RVTALEQASEPPRPAEHLEPSHDAGREEAATTALAGLARELQSLSDVKNVGRCCAEAG  
AGAASLNASLHGLHNALFATQSRLEQHQRLEHSLFGNFQGLMEANVSLDLGKLQTMLSRK  
GKKQKQKDLAPRKRDKEAEPLVDIRVTGPVPGALGAALWEAGSPVAFYASFSEGTAALQ  
TVKFNTTYINIGSSYFPEHGYFRAPERGVYLFVSVVEFGPGPGTGQLVFGGHHRTPVCTT  
GQSGSTATVTFAMAEQKGERVWFELTQGSITKRSLSGTAFGGFLMFKT

>sp|Q7L1V2|MON1B\_HUMAN Vacuolar fusion protein MON1 homolog B OS=Homo sapiens GN=MON1B  
PE=1 SV=1

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SPPPQSEALSSTSRLLWSPAAPENSPTCSPSSSGGGGDPSPDEWRSQRKHVFLSEAGK  
PIYSRYGSVEALSATMGVMTALVSFVQSAGDAIRAIYAEDHKLVLQGGPLLLLVAMSRTS  
QSAAQLRGELLAVHAQIVSTLTRASVARIFAHKQNYDLRRLLAGSERTLDRLLDSMEQDP  
GALLGAVRCVPLARPLRDALGALLRRCTAPGLALSVLAVGGRLITAAQERNVLAECRLD  
PADLQLLLDWVGAPAFAGAEPVCLPRFNPDPGFYAYVARLDAMPVCLLLLTGTQREAF  
HAMAACRRLVEDGMHALGAMRALGEAASFNSASSASAPAYSVQAVGAPGLRHFLYKPLDI  
PDHHRQLPQFTSPELEAPYSREEERQRLSDLYHRLHARLHSTSRPLRLIYHVAEKETLLA  
WVTSKFELYTCLSPLVTKAGAILVVTKLLRWVKKEEDRLFIRYPPKYSTPPATSTDQAAH  
NGLFTGL

>sp|Q502X0|MORN2\_HUMAN MORN repeat-containing protein 2 OS=Homo sapiens GN=MORN2 PE=1  
SV=2

MNGFGRLEHFGAVYEGQFKDNMFHGLGTYTFPNGAKYTGNFNENRVEGEYTDIQGLE  
WSGNFHFTAAPDLKLKLHM

>sp|Q9NRJ1|MOST1\_HUMAN Protein MOST-1 OS=Homo sapiens GN=C8orf17 PE=1 SV=1

MGECPHLVDVRLGHRSLATGPEQSDICHTGSEARWTTTWYGSLSFSRHKYKMLADLTPGV  
EMSCRHWARWLTPVIPALWKAEGGLPELRSSRPAAWTTW

>sp|O15403|MOT7\_HUMAN Monocarboxylate transporter 7 OS=Homo sapiens GN=SLC16A6 PE=1 SV=2

MTQNKLLCSKANVYTEVPDGGWGWAVVSFFFVEVFYGIKTFGVFFNDLMSFNESN  
SRISWIIISICVFLTFSAPLATVLSNRFGHRLVVMGGLLVSTGMVAASFQEVSHMYVA  
IGIISGLGYCFSFLPTVTILSYFGKRRSIVTAVASTGECFAVFAFAPAIMALKERIGWR  
YSLLFVGLLQLNIVIFGALLRPIFIRGPASPKIVIQENRKEAQYMLENEKTRTSIDSIDS  
GVELTTSKPNVPTHNTLELEPKADMQQVLVKTSRPPSEKKAPLLDFSILKEKSFIYALF  
GLFATLGFFAPSLYIPLGISLGIDQDRAAFLSTMAIAEVFGRIGAGFVLNREPIRKIY  
IELICVILLTVSLFAFTFATEFWGLMSCSIFFGFMVGTIGGTHIPLLAEDDVVGIEKMSS  
AAGVYIFIQSIAGLAGPPLAGLLVDQSKIYSRAFYSAGMALAAVCLALVRPCKMGLCQ  
HHHSGETKVVSHRGKTLQDIPEDFLEMDLAKNEHRVHVQMEPV

>sp|PODKB6|MPC1L\_HUMAN Mitochondrial pyruvate carrier 1-like protein OS=Homo sapiens  
GN=MPC1L PE=2 SV=1

MARMAVLWRKMRDNFQSKEFREYVSSTHFWGPAFSWGLPLAAFKDMKASPEIISGRMTTA  
LILYSAIFMRFAIRVQPRNLLLMAHCTNVMAQSVQASRYLLYYYGGGGAEKARDPPAT  
AAAATSPGSQPPKQAS

>sp|Q00325|MPCP\_HUMAN Phosphate carrier protein, mitochondrial OS=Homo sapiens GN=SLC25A3  
PE=1 SV=2

MFSSVAHLARANFNTPHLQLVHDGLDLRSSSPGPTGQPRRPRNLAAAVEEQYSCDYG  
SGRFFILCGLGGIISCGTTHALTALVPLDLVKCRMQVDPQKYKGFNGFSVTLKEDGVRGLA

KGWAPTFLGYSMQGLCKFGFYEVFKVLYSNMLGEENTYLWRTSLYLAASASAEFFADIAL  
APMEAAKVRIQTQPGYANTLRDAAPKMYKEEGLKAFYKGVAPLWMRQIPYTMKFACFER  
TVEALYKFVVPKPRSECSKPEQLVVTFVAGYIAGVFCAIVSHPADSVSVLNKEKGSSAS  
LVLKRLGFKGVWKGFLFARIIMIGTLTALQWFIYDSVKVYFRLPRPPPEMPESLKKKLGL  
TQ

>sp|Q99547|MPH6\_HUMAN M-phase phosphoprotein 6 OS=Homo sapiens GN=MPHOSPH6 PE=1 SV=2  
MAAERKTRLSKNLLRMKFMQRGLDSETKKQLEEEKKIIEEHWYLDLPELKEKESFIE  
EQSFLLCEDLLYGRMSFRGFNPEVEKMLQMNNAKHKAEEVEDETVELDVSDEEMARRYET  
LVGTIGKKFARKRDHANYEEDENGDIPTIKAKKMFLKPQD

>sp|P34949|MPI\_HUMAN Mannose-6-phosphate isomerase OS=Homo sapiens GN=MPI PE=1 SV=2  
MAAPRVFPLSCAVQQYAWGKMGSNSEVARLLASSDPLAQIAEDKPYAELWMGTHPRGDAK  
ILDNRISQKTLQWIAENQDSLGSVKVDTFNGNLPFLFKVLSVETPLSIQAHPNKELAEK  
LHLQAPQHYPDANHKPEMAIALTPFQGLCGFRPVEEIVTFLKKVPEFQFLIGDEAATHLK  
QTMSHDSQAVASSLQSCFSLMKSEKKVVVEQLNLLVKRISQQAAGNNMEDIFGELLQ  
LHQYQPGDIGCFIAYFLNLLTLKPGEAMFLEANVPHAYLKGDCECMACSDNTVRAGLTP  
KFIDVPTLCEMLSYTPSSSKDRLFLPTRSQEDPYLSIYDPPVPDFTIMKTEVPGSVTEYK  
VLALDSASILLMVQGTVIASPTTQTPIPLQRGGVLFIGNESVSLKLTPEKDLLIFRAC  
CLL

>sp|Q14168|MPP2\_HUMAN MAGUK p55 subfamily member 2 OS=Homo sapiens GN=MPP2 PE=1 SV=3  
MPVAATNSETAMQQVLDNLGSLPSATGAELDLIFLRGIMESPIVRSLAKVIMVLWFMQQ  
NVFVPMKYMLKYFGAHERLEETKLEAVRDNNLELVQEILRDLAHVAEQSSTAELAHLQ  
EPHFQSLETHDSVASKTYETPPSPGLDPTFSNQVPPDAVRMVGIRKTAGEHLGVTFR  
VEGGELVIARILHGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRNASGSVILKIL  
PSYQEPHLPRQVFKCHFIDYDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVE  
GGSAGLIPSQLEEKRKAFFVRDLELTPNSGTLGSLSGKKKKRMMYLTTKNAEFDRHEL  
LIYEEVARMPFRKRTLVLIGAQGVGRRSLKNKLIMWDPDRYGTTPYTSRRPKDSEREG  
QGYSFVSRGEMEADVRAGRYLEHGEYEGNLYGTRIDSIRGVVAAGKVCVLDVNPQAVKVL  
RTAEFVPYVVFIEAPDFETLRAMNRAALESISTKQLTEADLRRTVEESSRIQRGYGHYF  
DLCLVNSNLERTFRELQTAMEKLRTEPQWVPVSWVY

>sp|Q9NZW5|MPP6\_HUMAN MAGUK p55 subfamily member 6 OS=Homo sapiens GN=MPP6 PE=1 SV=2  
MQQVLENLTELPSSTGAEEIDLIFLKGIENPIVKSIAKAHERLEDSKLEAVSDNNLELV  
NEILEDITPLINVDENVAELVGILKEPHFQSLEAHDIVASKCYDSPSPSPMNSSINN  
QLLPVDAIRILGIHKRAGEPLGVTFRVENNDLVIARILHGGMIDRQGLLHVGDIIKEVNG  
HEVGNNPKELQELLKNISGSVTLKILPSYRDTITPQQVFKCHFDPNPYNDNLIPCKEAG  
LKFSKGEILQIVNREDPNWWQASHVKEGGSAGLIPSQFLEEKRAFFVRDWDNSGPFPGT  
ISSKKKKMMYLTTRNAEFDRHEIQIYEEVAKMPFQRKRTLVLIGAQGVGRRSLKNRFIV  
LNPTFRGTTPFTSRKPREDEKQAYKFVSRSEADIKAGKYLEHGEYEGNLYGTKID  
SILEVVQTGRTCILDVNPQALKVLRITSEFMPYVVFIAAPELETLRAMHKAVVDAGITTKL  
LTDSLKKTVDASARIQRAYNHYFDLIIINDNLDKAFELQTAIEKLMEPQWVPISWVY

>sp|Q99549|MPP8\_HUMAN M-phase phosphoprotein 8 OS=Homo sapiens GN=MPHOSPH8 PE=1 SV=2  
MEQVAEGARVTAVPVSAADSTEELAEVEEGVGVGEDNDAAARGAEAFDSEEDGEDVFE  
VEKILDMKTEGGKVLKYVRWKGYSDDDTWEPEIHLEDCKEVLLFRKKIAENKAKAVRK  
DIQRSLNNDIFEANSDDQQSETKEDTSPKKKKKKLRQREEKSPDDLKKKKAKAGKLD  
KSKPDLESSLESVFDLRTKKRISEAKEELKESKKPKKDEVKETKELKKVKKGEIRDLKT

KTREDPKENRKTKEKFVESQVESESSVLNDSPPFEDDSEGLHSDSREEKQNTKSARERA  
GQDMGLEHGFELPLDSAMSAEEDTDVRRGRRKKKTPRKAEDTRENKLENKNAFLEKKTVP  
KKQRNQDRSKSAAELEKMPVSAQTPKGRRLSGEERGLWSTDSAEDKETKRNESKEKYQ  
KRHSDSKEEKGRKEPKGLKTLKEIRNAFDLFKLTPEEKNDVSENNRKREEIPLDFKTIDD  
HKTENKQSLKERRNTRDETDTWAYIAAEGDQEVLD SVCQADENS DGRQQILSLGMDLQL  
EWMKLEDFQKHLDGKDENFAATDAIPSNVLRDAVKNGDYITVKVALNSNEEYNLDQEDSS  
GMTLVMLAAAGGQDDLLRLLITGAKVNGRQKNGTTALIHAAEKNFLT TVAILLEAGAFV  
NVQQSNGETALMKACKRGNSDIVRLVIECGADCNILSKHQNSALHFAKQSNNVLVYDLLK  
NHLETLSRVAEETIKDYFEARLALLEPVFPIACHRLCEGPDFSTDFNYKPPQNIPEGSGI  
LLFIFHANFLGKEVIARLCGPCSVQAVVLNDKFQLPVFLDSHFVYSFSPVAGPNKLFIRL  
TEAPSAKVKLLIGAYRVQLQ

>sp|Q10713|MPPA\_HUMAN Mitochondrial-processing peptidase subunit alpha OS=Homo sapiens  
GN=PMPCA PE=1 SV=2

MAAVLAATRLLRGSGSWGCSRLRFGPAYRRFSSGGAYPNIPSSPLPGVPKPVFATVD  
GQEFETKVTTLNGLRVASQNKFGQFCTVGILINSGSRYEAKYLSGIAHFLEKLAFSST  
ARFDSKDEILLTLEKHGGICDCQTSRD TMYAVSADSKGLDTVVALLADVVLQPRLTDEE  
VEMTRMAVQFELEDNLRPDPEPLLTEMIHEAAYRENTVGLHRFCPTENVAKINREVLHS  
YLRNYTPDRMVLAGVGVEHEHLVDCARKYLLGVQPAWGSAAVDIRSVAQYTGGIAKL  
ERDMSNVSLGPTPIPELTHIMVGLESCSFLEEDFIPFAVLNMMGGGGSFSAGGPGKGMF  
SRLYLNVLRHHWMYNATSYHHSYEDTGLLCIHASADPRQVREMEIITKEFILMGGTVD  
TVELERAQTQLTSMMLNLESRPVIFEDVGRQVLATRSRKLPHLCTLIRNVKPEDVKRV  
ASKMLRGKPAVAALGDLTDLPTYEHIQTALSSKDGRLPRTYRLFR

>sp|O75439|MPPB\_HUMAN Mitochondrial-processing peptidase subunit beta OS=Homo sapiens  
GN=PMPCB PE=1 SV=2

MAAAAARVVLSSAARRRLWGFSESLIRGAAGRSLYFGENRLRSTQAATQVVLNVPETRV  
TCLESLRVASEDSGLSTCTVGLWIDAGSRYENEKNNGTAHFLEHMAFKGTTKRSQLDLE  
LEIENMGAHLNAYTSREQT VYYAKAFSKDL PRAVEILADI IQNSTLGEAEIERERGVILR  
EMQEVEITNLQEVVFDYLHATAYQNTALGRTILGPTENIKSISRKDLVDYITTHYKGPRIV  
LAAAGGVSHDELLDLAKFHFGDSLCTHKGEIPALPPCKFTGSEIRVRDDKMPLAHLAIAV  
EAVGWAHPDTICLMVANTLIGNWDRSFGGGMNLSSKLAQLTCHGNLCHSFQSFNTSYTDT  
GLWGLYMVCESTVADMLHVQKEWMRLCTSVTESEVARARNLLKTNMLQLDGSTPICE  
DIGRQMLCYNRRIPPELEARIDAVNAETIREVCTKYIYNRSPAIAAVGPIKQLPDFKQI  
RSNMCWLRD

>sp|Q15777|MPPD2\_HUMAN Metallophosphoesterase MPPED2 OS=Homo sapiens GN=MPPED2 PE=1 SV=1

MAHGIPSQGKVTITVDEYSSNPTQAFTHYNINQSRFQPPHVMVDPIPYDTPKPAGHTRF  
VCISDTHSRDTGIQMPYGDILLHTGDFTELGLPSEVKKFNDWLG NLPY EYKIVIAGNHEL  
TFDKEFMADLVKQDYRFPSVSKLPEDFDNVQSLLTNSIYLQDSEVTVKGFRIYGAPWT  
PWFNGWGFNLPRGQSLLDKWNLIPEGIDILMTHGPPLGFRDWVPKELQRVGCVELLNTVQ  
RRVRPKLHVFGGIHEGYGIMTDGYTTYINASTCTVSFQPTNPPIIFDLPNPQGS

>sp|Q9NXX6|MPRG\_HUMAN Membrane progesterin receptor gamma OS=Homo sapiens GN=PAQR5 PE=1  
SV=2

MLSLKLPRLFSIDQIPQVFHEQGILFGYRHPQSSATACILSLFQMTNETLNIWTHLLPFW  
FFAWRFVTALYMTDIKNDSSWPM LVYMC TSCVYPLVSSCAHTFSSMSKNARHICYFLDY  
GAVNLFSLSGAIAYSAYTFPDALMCTTFHDYYVALAVLNTILSTGLSCYSRFLEIQKPRL

CKVIRVLAFAYPYTWDSLPIFYRLFLFPGESAQNEATSYHQHMIMTLLASFLYSAHLPE  
RLAPGRFDYIGHSHQLFHVCVILATHMQMEAILLDKTLRKEWLLATSKPFSFSQIAGAIL  
LCIIFSLSNIIYFSAALYRIPKPELHKKET

>sp|P11717|MPRI\_HUMAN Cation-independent mannose-6-phosphate receptor OS=Homo sapiens  
GN=IGF2R PE=1 SV=3

MGAAAGRSPHLGPAPARRPQRSLLLLQLLLLVAAPGSTQAQAAPFPELCSYTWEAVDTKN  
NVLYKINICGSVDIVQCGPSSAVCMHDLKTRTYHSVGDVLSATRSLLFNTTVSCDQQ  
GTNHRVQSSIAFLCGKLTGTPEFVTATECVHYFEWRTTAACKKDIKANEVPCYVFDEE  
LRKHDLNPLIKLSGAYLVDDSDPDTSLFINVCRDIDTLRDPGSQLRACPPGTAACLVRGH  
QAFDVGQPRDGLKLVKDRVLVSYVREEAGKLDGCDGHSPAVTITFVCPSERREGTIPKL  
TAKSNCRYEIEWITEYACHRDYLESKTCSLSGEQQDVSIDLTPLAQSGGSSYISDGKEYL  
FYLNVCGETEIQFCNKKQAAVCQVKKSDTSQVKAAGRYHNQTLRYSDGDLTLIYFGGDEC  
SSGFQRMSVINFECKNTAGNDGKGTVPFTGEVDCTYFFTWDTEYACVKEKEDLLCGATDG  
KKRYDLSALVRHAEPQNEAVDGSQTETEEKHFFINICHRVLQEGKARGCPEDAACAV  
DKNGSKNLGKFISSPMKEKGNIQLSYSDGDDCGHGKKIKTNITLVCKPGDLESAPVLRIS  
GEGGCFYEFEWHTAACVLSKTEGENCTVFDSQAGFSFDLSPLTKKNGAYKVETKKYDFY  
INVCGPVSVSPCQPDGACQVAKSDEKTNLGLSNAKLSYYDGMQLNRYGGTPYNNERH  
TPRATLITFLCDRAGVGFPEYQEEEDNSTYNFRWYTSYACPEELECVDTPSTLEQYDL  
SSLAKSEGGGLGWNWYAMDNSGEHVTWRKYYINVCRLNPVPGCNRYASACQMKYEKQGS  
FTEVVSISNLGMAKTGPVVEDSGSLLLEYVNGSACTTSDGRQTTYTRIHLVCSRGLNS  
HPIFSLNWEVVSFLWNTEAACPIQTTTDTQACSIRDPNSGFVFNLPNLSQGYNVSG  
IGKIFMFNVCGTMPVCGTILGKPASGCEAETQTEELKNWKPAPVVGIEKSLQLSTEGFIT  
LTYKGPLSAKTADAFIVRFVNCDDVYSGPLKFLHQDIDSGQIRNTYFEFETALACVPS  
PVDCQVTDLAGNEYDLTGLSTVRKPWTAVDTSVDGRKRTFYLSVCNPLPYIPGCQGSavg  
SCLVSEGNSWNLGVVQMSPQAAANGSLSIMYVNGDKCGNQRFSRITFECAQISGSPAFQ  
LQDGCEYVFIWRTVEACPVRVVEGDNCEVKDPRHGNLYDLKPLGLNDTIVSAGEYTYFR  
VCGKLSSDVCPTSDKSKVSSCQEKREPQGFHKVAGLLTQKLTyenGLLKMFTGGDTCH  
KVYQRSTAIFFYCDRGTQRPVFLKETSDCSYLFEWRTQYACPPFDLTECSFKDGAGNSFD  
LSSLSRYSDNWEAITGTGDPEHYLINVCKSLAPQAGTEPCPEAAACLLGGSKPVNLGRV  
RDGPQWRDGIIVLKYVDGDLCPDGIRKKSTTIRFTCSQVNSRPMFISAVEDCEYTFaw  
PTATACPMKSNEHDDCQVTNPSTGHLFDLSSLSGRAGFTAAYSEKGLVYMSICGENENCP  
PGVGACFGQTRISVGKANKRLRYVDQVLQLVYKDGSPCPSKSGLSYKSVISFVCRPEARP  
TNRPMLISLDKQTCTLFFSWHTPLACEQATECSVRNGSSIVDLSPLIHRGGYEAYDESE  
DDASDTNPDFYINICQPLNPMHGVPCPAGAAVCKVPIDGPPIDIGRVAGPPIILNPIANEI  
YLNFEsstPLADKHFNYSLSIAFHCKRGVSMGTPKLLRTSECDVFEWETPVVCPDEVR  
MDGCTLTDEQLLYSfNLSSLSTSTfKVTRDSRTYSVGCTFAVGPEQGGCKDGGVCLLSG  
TKGASFGRLQSMKLDYRHQDEAVVLSYVNGDRCPPETDDGVPCVFPFIENGKSYEECIE  
SRAKLWCSTTADYDRDHEWGFCRHSNSYRTSSIIFKCDEDEDIGRPQVFSEVRGCDVTFE  
WKTkVVCPPKKLECKFVQKHkTYDLRLSSLTGSWSLVHNGVSYYINLCQKIYKGPLGCS  
ERASICRRTTTGDVQVLGLVHTQKLGVIGDKVVVTYSKGYPCGGNKTASSVIELTCTKT  
VGRPAFKRFDIDCTYYFSWDSRAACAVKPQEVQMVNGTITNPINGKSfSLGDIYFKLFRA  
SGDMRTNGDNLYEIQLSSITSSRNPAcSGANICQVKPNQHFsrKVGTSdkTKYYLQDG  
DLDVVFASSSKCGKDKTKSVSSTIFFHCDPLVEDGIPEFSHETADCQYLFsWYTSAVCPL  
GVGFDSenPGDDGQMHKGLSERSQAVGAVLSLLLVALTCCLLALLLYKKERRETVISKLT



TCCRRSSNVSYKYSKVNKEEETDENETEWLMEEIQLPPPRQGKEGQENGHITTKSVKALS  
SLHGDDQDSEDEVLTIPEVKVHSGRGAGAESSHPVRNAQSNALQEREDDRVGLVRGEKAR  
KGKSSSAQKQTVSSTKLVSFHDDSDDELLHI

>sp|Q2M3A8|MRAS1\_HUMAN Putative uncharacterized protein MRGPRG-AS1 OS=Homo sapiens  
GN=MRGPRG-AS1 PE=5 SV=1

MDLASEITSATQTSSLCSSGRGHAGYPAPGIVAHGFETHGTARVAQGHLLPPCLLPPPM  
PVLAAALRDLRSGSTSSSRSPSRPVSTASAKPCLPASCLGETWSISINLVGSSGHLQSPG  
AQRDAQRETGCLGPSWLPHHQGRDEELSLSHSAQGEEF

>sp|Q13421|MSLN\_HUMAN Mesothelin OS=Homo sapiens GN=MSLN PE=1 SV=2

MALPTARPLLGSCGTPALGSLLFLLFSLGWVQPSRTLGETGQEAAPLDGVLANPPNISS  
LSPRQLLGFPCEVSGLSTERVRELAVALAQKNVKLSTEQLRCLAHRLSEPPEDLDALPL  
DLLLFLNPDAFSGPQACTRFFSRITKANVDLLPRGAPERQRLPAALACWGVRSLLSEA  
DVRLGGLACDLPRGFVAESAIEVLLPRLVSCPGPLDQDQQAARAALQGGGPPYPGPSTW  
SVSTMALRGLLPVLGQPIIRSIPQGIVAAWRQRSSRDPSWRQPRTLPRFRREVEKT  
ACPSGKKAREIDESLIFYKKWELEACVDAALLATQMDRVNAIPFTYEQLDVLKHKLDELY  
PQGYPESVIQHLGYLFLKMSPEDIRKWNVTSLKALLEVNKGHEMSPQAPRRPLPQVA  
TLIDRFVKGRGQLDKDLDLTAFYPGYLCSLSPEELSSVPPSSIWAVRPQDLTCDPRQ  
LDVLYPKARLAFQNMNGSEYFVKIQSFLGGAPTEDLKALSQQNVSMDLATFMKLRTDAVL  
PLTVAEVQKLLGPHVEGLKAEERHRPVRDWILRQRQDDLDTLGLGLQGGIPNGYLVLDLS  
MQEALSGTPCLLGPGPVLTVLALLLASTLA

>sp|Q8IXL7|MSRB3\_HUMAN Methionine-R-sulfoxide reductase B3 OS=Homo sapiens GN=MSRB3 PE=1  
SV=2

MSPRRTLPRPLSLCLSLCLCLCLAAALGSAQSGSCRDKNCKVVFSSQELRKRLTPLQYH  
VTQKEGTESAFEGEYTHHKDPGIYKCVVCGTPLFKSETKFDSGSGWPSFHDVINSEAITF  
TDDFSYGMHRVETSCSQGAHLGHIFDDGPRPTGKRYCINSAALSFTPADSSGTAEGGSG  
VASPAQADKAEL

>sp|Q4VC12|MSS51\_HUMAN Putative protein MSS51 homolog, mitochondrial OS=Homo sapiens  
GN=MSS51 PE=1 SV=2

MAPRSRRRRHKKPPSSVAPIIMAPTTIVTPVPLTPSKPGPSIDTLGFFSLDDNPGLSQL  
ILQKLNKMSYEEYKLVVDGGTPVSGFGFRCPQEMFQRMEDTFRFCAHCRALPSGLSDSKV  
LRHCKRCRNVYYCGPECQKSDWPAHRRVCQELRLVAVDRLMEWLLVTGDFVLPSGPWPWP  
PEAVQDWSWFSMKGLHLDATLDAVLVSHAVTTLWASVGRPRPDVQLGSLKRLLTDVL  
SRPLTLGLGLRALGIDVVRTGGSTVHVVGASHVETFLTRPGDYDELGYMFPGLGLRVVM  
VGVDVATGFSQSTSTSPLEPGTIQLSAHRLYHDFWEEQVETGQTHHPDLVAAFHPGFHS  
SPDLMEAWLPTLLLLRDYKIPTLITVYSHQELVSSLQILVELDTHITAFGSNPFMSLKPE  
QVYSSPNKQPVYCSAYYIMFLGSSCQLDNRQLEEKVDGGI

>sp|Q9H867|MT21D\_HUMAN Protein-lysine methyltransferase METTL21D OS=Homo sapiens  
GN=VCPKMT PE=1 SV=2

MADTLESSLEDPLRSFVRVLEKRDGTVLRLQQYSSGGVGCVVWDAIVLSKYLETPEFSG  
DGAHALSRRSVLELGSCTGAVGLMAATLGADVVTDLLEELQDLLKMNI MNKHLVTGSVQ  
AKVLKWGEEIEGFSPPDFILMADCIYYEESLEPLLKTLKDISGFETCIICCYEQRTMGK  
NPEIEKKYFELLQLDFDFEKIPILEKHDEEYRSEDIHIYIRKKKSKFPS

>sp|Q9BU76|MMTA2\_HUMAN Multiple myeloma tumor-associated protein 2 OS=Homo sapiens  
GN=MMTAG2 PE=1 SV=1

MFGSSRGVRRGGQDQFNWEDVKTDKQRENYLGNSLMAVGRWQKGRDLTWYAKGRAPCAG  
PSREEELAAREAREALLAALGYKNVKKQPTGLSKEDFAEVCKREGGDPEEKGVDRLLG  
LGSASGSVGRVAMSREDKEAAKLGLSVFTHHRVESGGPGTSAASARRKPRAEDQTESSCE  
SHRKSKEKKKKKKRKHKEKKKKDKEHRRPAEATSSPTSPERPRHHHSDSDSNSPCCR  
RKRGHSGDRRSPSRWHDRGSEA

>sp|Q13875|MOBP\_HUMAN Myelin-associated oligodendrocyte basic protein OS=Homo sapiens  
GN=MOBP PE=1 SV=2

MSQKPAKEGPRLSKNQKSEHFSIHCCPPFTFLNSKKEIVDRKYSICKSGCFYQKKEEDW  
ICCACQKTRTSRRRAKSPQRPKQPAAPPVVRAPAKPRSPRSPRSPRSPRSPRSPRSP  
PRSERQPRSPRSPRSPRPRPEVRPPPAKQRPQKSKQQPRSSPLRGPASRGGSVPKAS  
RFW

>sp|Q2KHM9|MOONR\_HUMAN Protein moonraker OS=Homo sapiens GN=KIAA0753 PE=1 SV=3

MGPQQPASTCVHLAPRTQLDGRSDPKVLQTQNLQFNRRVPTHSSNLAIYSCPHAIRIE  
KLKHSYNESYHCKDADCRVGPLGSSVSFSVISQERLSYAVHLARRDVKRRQFEKHIKEH  
HLRSQPSSQKCGHTKYKIPDHRVERKESKSAACQCSHQPSKVEISSGAKVYLYSSHP  
GQSDLTVPNSPPTHDPGLQPHPRIGDHKNISEQKSLEVQRLQKELSSCIHKIEEVTKKD  
RLEEALDPDEERRIRIRRQEQAARSARMLYVLQQQVKEIQEELDKLSPHKIKHTKKSAM  
SKLAAAHRGAIKALQMFVTQFTDRGEHPLPARCKELGSLIRQLSLCSVKLDADPSVPDVV  
IDILQQIEALESLEKKLSPKKVKKCFSEIRSRFPIGSQKALERWPSTSPKGERRPLTAK  
DTFPQETSRSVAKQLLADKYQPDTELPETQRLQSELDVLDADIVLEEGPFILDQSASF  
DEVLAVALTKAGKKPVNTENVPFRKDTLAPARQQGLRKAERGRSQPHSKSRVQQTTS  
SRLKMNRPVKDRKAPWIPNPTSPPASPKCAAWLKVKTSRPRDATKEPLQQEDPQEEHL  
TGAVEHEAARLAWLDAETSKRLKELEELKAKEIDSMQKRLDWLDAETSRRTKELNELKA  
EEMYLQQLSVSATHLADKVEEAVLDRLKPLLVKAQRVNSTTEANIHLKDGSSVNTAKAQ  
PAQEVAAVDFESNNIRQLDDFLEDCASELWAVTHAKILGSETLATVEDSKDSPDLEIMMR  
RMEEMEKYQESVRQRYNKIAYADPRLWMQEENNDQKISAISEKPLSPHPIRITKTVDKRD  
PAVNIMLERPCNGNSLDESVDGTEEGSEKREAPLLSLAEDSQKKEGRAPLFVPPGMQHSIG  
DYCSRFEQYLRIISHEAVGSFNPWLIAESFSEELVDEALGAVAAELQDMCEDYAEAVFTS  
EFLEAAT

>sp|Q14149|MORC3\_HUMAN MORC family CW-type zinc finger protein 3 OS=Homo sapiens GN=MORC3  
PE=1 SV=3

MAAQPPRGIRLSALCPKFLHTNSTSHTWPFSAVAELIDNAYDPDVNAKQIWIWIDKTVINDH  
ICLTFTDNGNGMTSDKLHKMLSFGFSDKVTMNGHVPVGLYNGFKSGSMRLGKDAIVFTK  
NGESMSVGLLSQTYLEVIKAEHVVPVIVAFNKHQMINLAESKASLAAILEHSLFSTEQK  
LLAELDAIIGKKGTRIIWNLSYKNATEFDFEKDYDIRIPEDLDEITGKKGYKKQERM  
DQIAPESDYSLAYCSILYLKPRMQIILRGQKVKTQLVSKSLAYIERDVYRPFKFLSKTVR  
ITFGFNCRNKDHYGIMMYHRNRLIKAYEKVGCQLRANMVGVGVIIECNFLKPTHNKQD  
FDYTNEYRLTITALGEKLDYWNEMKVKNTEYPLNLPVEDIQKRPDQTVWQCDACKLWR  
KLPGMDQLPEKWYCSNNPDPQFRNCEVPEEPEDEDLVHPTYEKTYKKTNKEKFRIRQPE  
MIPRINAELLFRPTALSTPSFSSPKESVPRRHLSEGTNSYATRLNNHQVPPQSEPESENS  
LKRRLSTRSSILNAKNRRLSSQFENSVMKGGDDDEDVIILEENSTPKPAVDHIDMKSEQ  
SHVEQGGVQVEFGDSEPCGQTGSTSTSSSRCDQGNTAATQTEVPSLVVKEETVEDEID  
VRNDAVILPSCVEAEAKIHETQETDKSADDAGCQLQELRNQLLLVTEKENYKRQCHMF  
TDQIKVLQQRILEMNDKYVKKETCHQSTETDAVFLLESINGKSESPDHMVSQYQQALEEI

ERLKKQSALQHVKAECSCSNNESEKSEMDEMAVQLDDVFRQLDKCSIERDQYKSEVELL  
EMEKSQIRSQCEELKTEVEQLKSTNQQTATDVSTSSNIEESVNHMDGESLKLRSRLRVNG  
QLLAMIVPDLDLQQVNYDQVDEILGQVVEQMSEISS

>sp|Q8NDC4|MORN4\_HUMAN MORN repeat-containing protein 4 OS=Homo sapiens GN=MORN4 PE=1  
SV=1

MTLTGKSFTYSSGEEYRGWEKGRRHGFGQLMFADGGTYLGHFENGLFNGFGVLTFS DGS  
RYEGEFAQGKFNQGVGFIRYDNMTFEGEFKNGRVDGFGLLTFPDGSHGIPRNEGLFENNK  
LLRREKCSAIVQRAQSASKSARNLTA

>sp|Q13163|MP2K5\_HUMAN Dual specificity mitogen-activated protein kinase kinase 5 OS=Homo  
sapiens GN=MAP2K5 PE=1 SV=2

MLWLALGPFAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLVDVIGQVLPEATTTAF  
EYEDGDGRITVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPGERNIHGL  
KVNTRAGPSQHSSPAVSDSLPSNSLKSSAELKKILANGQMNEQDIRYRDTLGHNGGTV  
YKAYHVP SGKILAVKILLDITLQLKQIMSEILEILYKCDSSYIIGFYGAFFVENRISIC  
TEFMDGGS LDVYRKMP EHV LGRIAVAVKGLTYLWSLKILHRDVKPSNMLVNTRGQVKLC  
DFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWSLGISFMELALGRFPYPQIQ  
KNQGS LMPLQLLQCIVDEDDSPVLPVGEFSEPFVHFITQCMRKQPKERPAP EELMGHPFIV  
QFNDGNAAVVSMWVCRALEERRSQGGP

>sp|Q2M385|MPEG1\_HUMAN Macrophage-expressed gene 1 protein OS=Homo sapiens GN=MPEG1 PE=2  
SV=1

MNNFRATILFWAAAAWAKSGKPSGEMDEVGVQKCKNALKLPVLEVLPGGGWDNLRNVDMG  
RVMELTYSNCRRTTEDGQYIIPDEIFTIPQKQSNLEMNSEILES WANYQSSTSYSINTELS  
LFSKVNGKFSTEFQRMKTLQVKDAQAITTRVQVRNLVYTVKINPTLELSSGFRKELLDISD  
RLENNQTRMATYLAELLVLNYGTHVTTSDAGAALI QEDHLRASFLQDSQSSRS AVTASA  
GLAFQNTVNFKFEENYTSQNLTKSYLSNRTNSRVQSIGGVFPYPGITLQAWQQGITNHL  
VAIDRSG LPLHFFINPNMLPDLPGLVKKVSKTVETAVKRYTFTNTYPGCTDLNSPNFNF  
QANTDDGSCEGKMTNFSFGGVYQECTQLSGNRDVL L CQKLEQKNPLTGDFSCPSGYS PVH  
LLSQIHEEGYNHLECHRKCTLLVFCKTVCEDVFQVAKAEFRAFWCVASSQVPENSGLLFG  
GLFSSKSNPMTNAQSCPAGYFPLRLFENLKVCSQDYELGSRFAVPFGGFFSCTVGNPL  
VDP AISRDLGAPSLKKCPGGFSQHPALISDGCQVSYCVKSGLFTGGSLPPARLPPFTRPP  
LMSQAATNTVIVTNSENARSWIKDSQTHQWRLGEPIELRRAMNVIHGDGGGLSGGAAAGV  
TVGVTTILAVVITLAIYGRKFKKKAYQAI EERQSLVPGTAATGDTTYQEQQGSPA

>sp|P30307|MPIP3\_HUMAN M-phase inducer phosphatase 3 OS=Homo sapiens GN=CDC25C PE=1 SV=2

MSTELFSSTREEGSSGSGPSFRSNQRKMLNLLLERDTSFTVCPDVPRTPVGKFLGDSANL  
SILSGGTPKRCLDLSNLSSGEITATQLTTSADLDETGHL DSSGLQEVHLAGMNHQHLMK  
CSPAQLLCSTPNGLDRGHRKRDAMCSSSANKENDNGNLVDSEM KYLGSPITTVPKLDKNP  
NLGEDQAE EISDELMEFSLKDQEA KVSRSGLYRSPSPENLNRPRLKQVEKFKDNTIPDK  
VKKKYFSGQGKLRKGLCLKKT VSLCDITITQMLEEDSNQGH LIGDFSKVCALPTVSGKHQ  
DLKYVNPETVAALLSGKFQGLIEKFYVIDCRYPYELGGHIQGALNLYSQEELFNFFLKK  
PIVPLDTQKRIIIVFHCEFS SERGPRMCRLREEDRSLNQYPALYYPELYILKGGYRDF  
PEYMELCEPQSYCPMHQDHKTELLRCRSQSKVQEGERQLREQIALLVKDMS

>sp|Q99550|MP9\_HUMAN M-phase phosphoprotein 9 OS=Homo sapiens GN=MPHOSPH9 PE=1 SV=4

MEEFDLVKTLHKTSSSVGSDENSLHSLGLNLNDRSSPHLSTNGVSSFSGKTRPSVIQGT  
VEVLTSLMQELQNSGKTDSSELWKNCE TRWLQLFNLVEKQCQE QIVAQQE QFHNQIQHIQE

EIKNLVKLQTSSASLASCEGNSSNKQVSSESQMGFFSLSSERNESVIHYPESTEPEIQQE  
MSTSQPCDNVDSQSVSSGYGTFICISELNLYKSKDPKEFMEHIDVPKGQYVAPVPAESLV  
DGVKNENFYIQTPEECHVSLKEDVSI SPGEFEHNFLGENKVSEVYSGKTNSNAITSWAQK  
LKQNQPKRAHVEDGGSRSKQGNEQSKKTPIEKSDFAAATHPRAFYLKPDETPNAWMSDS  
GTGLTYWKLEEKDMHHSLPETLEKTFISLSSTDVSPNQSNSTSNEMKLPSLKDIYYKKQRE  
NKQLPERNLTSASNPNHPPEVLTLDPTLHMKPKQGISGIQPHGLPNALDDRISFSPDSVL  
EPSMSSPSDIDSFSQASNVTSQLPGFPKYPSTKASPVDSWKNQTFQNESRTSSTFPSVY  
TITSNDISVNTVDEENTVMVASASVSQSQLPGTANSVPECISLTSLEDPVILSKIRQNLK  
EKHARHIADLRAYYESEINSLKQKLEAKEISGVEDWKITNQILVDRCGQLDSALHEATSR  
VRTLENKNLLEIEVNDLRERFSAASSASKILQERIEEMRTSSKEKDNTIIRLKSRLQDL  
EEAFENAYKLSDDKEAQLKQENKMFQDLLGEYESLGKEHRRVKDALNTTENKLLDAYTQI  
SDLKRMISKLEAQVKQVEHENMLSLRHNSRIHVRPSRANTLATSDVSRKWLIPGAEYSI  
FTGQPLDTQDSNVNQL EETCSLGHRSPLEKDSSPGSSSTSLLIKQRETS DTPIMRAK  
ELDEGKIFKNWGTQTEKEDTSINPRQTETSVNASRSPEKCAQQRKRLNSASQRSSSLP  
PSNRKSSTPTKREIMLTPVTVAYSPKRSPKENLSPGFSHLLSKNESSPIRFDILLDDLD  
VPVSTLQRTNPRKQLQFLPLDDSEEKTYSEKATDNHVNHSSCPEVPNGVKKVSVRTAWE  
KNKSVSYEQCKPVSVPQGNDFEYTAKIRTLAETERFFDELTKEDQIEAALSRMPSPGG  
RITLQTRLNQEALEDRLERINRELGSVRMTLKKFHVLRTSANL

>sp|O15442|MPPD1\_HUMAN Metallophosphoesterase domain-containing protein 1 OS=Homo sapiens  
GN=MPPED1 PE=2 SV=3

MWRSRWDA SVLKAEALALLPCGLGMAFSQSHVMAARRHQHSRLIIIEVDEYSSNPTQAFTF  
YNINQGRFQPPHVQMVDVPVPHDAPKPPGYTRFVCVSDTHSRTDPIQMPYGDVLIHAGDFT  
ELGLPSEVKKFNEWLGSLPYEYKIVIAGNHELTFDQEFMADLIKQDFYFSPSVSKLPEN  
YENVQSLLTNCIYLQDSEVTVRGFRIYGSWPQWFWYGWGFNLPRGQALLEKWNLIPEGVD  
ILITHGPPLGFLDWVPKKMQRVGCVELLNTVQRRVQPRLHVFGHIHEGYGMADGTTTYV  
NASVCTVNYQPVNPPIVIDLPTPRNS

>sp|Q6UWV2|MPZL3\_HUMAN Myelin protein zero-like protein 3 OS=Homo sapiens GN=MPZL3 PE=1  
SV=1

MQQRGAAGSRGCALFPLLGVLFQGVYIVFSLEIRADAHVRGYVGEKIKLKCTFKSTSDV  
TDKLTIDWYRPPSSSHTVSI FHYQS FQYPTTAGTFRDRISWVG NVYKGDASISISNPTI  
KDNGTFSCAVKNPPDVHHNIPMTELTVTERGFGTMLSSVALLSILVFVPSAVVALLLVR  
MGRKAAGLKKRSRGYKSSIEVSDTDQEEEEACMARLCVRCAECLDSYEETY

>sp|Q8N565|MREG\_HUMAN Melanoregulin OS=Homo sapiens GN=MREG PE=1 SV=1

MGLRDWLRTVCCCCGCECLEERALPEKEPLVSDNNPYSSF GATLVRDDEKNLWSMPHDVS  
HTEADDDRTLYNLIVIRNQAKDSEEWQKLNVDIHTLRQVRREVRNRWKCILEDLGFQKE  
ADSLLSVTKLSTISDSKNTRKAREMLLKLAEETNIFPTSWELSERYLFVVDRLIALDAAE  
EFFKLARRTPKPKPGVPCLADGQKELHYLPFPSP

>sp|Q96LU7|MRFL\_HUMAN Myelin regulatory factor-like protein OS=Homo sapiens GN=MYRFL PE=2  
SV=2

MDVVGENEALQQFFEAQGANGTLENPALDTSLLEEF LGNDFDLGALQRQLPDTPPYSASD  
SCSPPVKGACYPTLRPTAGRTPAPFLHPTAAPAMPPMHPLQSTSGMGDSCQIHGGFHSC  
HSNASHLATPLDQSVSSHLGIGCSYPQQPLCHSPGASLPPTKKRKCTQALEDSGECRVWA  
CHCRPMTSRSRSEVQDPDSEGQNRMP TDQCSPALKWQPCHSVPWHSLLNSHYEKL PDVG  
YRVVTDKGFNFSPADEFVCQKKNHFQITIIHIQVWGSPKFVETEMGLKPIEMFYLVFGT

KVEATNQIIAIEQSQADRSKKIFNPVKIDLLADQVTKVTLGRLHFSETTANMRKKGKPN  
PDQRYFMLVVGLYAANQDQFYLLSAHISERIIVRASNPGGFENDSDALWQRGQVPESIVC  
HGRVGINTDAPDEALVVCNMGKMGTIMHPSDSRAKQNIQEVDTNEQLKRIAQMRIVEYD  
YKPEFASAMGINTAHQTGMIAQEVQEILPRAVREVGDTVCGNETLENFLMVDKDQIFME  
NVGAVKQLCKLTNNLEERIEELEIWNRLARLRLSSWKSSASEASTISKSSRAVSASSP  
RRAVHKNNKVYFSGKRQACPNWVFQTLVITLIAVMAFCALTIVALYILSLKDQDRRVPN  
LPSSNITSSQEPALLPTASSAPNTSLVTTASLQVPEITFCEILPCQETYCCPIRGMKE  
VSSSPVQRQSEEKEFHQRRWSEDKSKSVLARNALSGPDWESDWIDTTISSIQIMEIQQII  
DHQYCIQSLQCGSGNYNINIPVNKHTPTNVKFSLEINTTEPLIVFQCKFTLGNICFHSKR  
GTKGLESHREISQEMTQGYQHIWSLPVAPFSDSMFHRVAAPDLADCSTDOPYFAGIFFTD  
YFFYFYRRCA

>sp|Q96AM1|MRGRF\_HUMAN Mas-related G-protein coupled receptor member F OS=Homo sapiens  
GN=MRGPRF PE=2 SV=1

MAGNCSWEAHPGNRNKMCPLSEAPELYSRGFLTIEQIAMLPPPAVMNYIFLLLCLCGLV  
GNGLVLWFFGFSIKRNPFSIYFLHLASADVGYLFSKAVFSILNTGGFLGTFADYIRSVCR  
VLGLCMFLTGVSLPAVSAERCASVIFPAWYWRRRPKRLSAVVCALLWVLSLLVTCLHNY  
FCVFLGRGAPGAACRHMDIFLGILLFLLCCPLMVLPLCLALILHVECRARRRQRSACLNHV  
ILAMVSFLVSSIYLGIDWFLFWVFQIPAPFPEYVTDLCICINSSAKPIVYFLAGRDKSQ  
RLWEPLRVVFQRALRDGAELGEAGGSTPNTVTMEMQCPPGNAS

>sp|Q86SM5|MRGRG\_HUMAN Mas-related G-protein coupled receptor member G OS=Homo sapiens  
GN=MRGPRG PE=2 SV=2

MFGLFGLWRTFDSVVFYLTILVGLGGPVGNGLVLWNLGFRIKKGPFSIYLLHLAAADFLF  
LSCRVGFSVAQAALGAQDTLYFVLTFWFAVGLWLLAAFSVERCLSDLFPACYQGCRPRH  
ASAVLCALVWTPTLPAVPLPANACGLLRNSACPLVCPRYHVASVTWFLVLARVAWTAGVV  
LFVWVTCSTRPRPRLYGIVLGALLLFFCGLPSVFYWSLQPLLNFLLPVFSPLATLLAC  
VNSSSKPLIYSGLRQPGKREPLRSVLRRALGEGAELGARGQSLPMGLL

>sp|Q96LB1|MRGX2\_HUMAN Mas-related G-protein coupled receptor member X2 OS=Homo sapiens  
GN=MRGPRX2 PE=1 SV=1

MDPTTPAWGTESTTVNGNDQALLLCGKETLIPVFLILFIALVGLVGNGFVLWLLGFRMR  
RNAFSVYVLSLAGADFLFLCFQIINCLVYLSNFFCSISINFPSFFTVMTCAYLAGLSML  
STVSTERCLSVLWPIWYRCRRPRHLSAVVCVLLWALSLLLSILEGKFCGFLFSDGDSGWC  
QTFDFITAAWLIFLMVLCGSSLALLVRILCGSRGLPLTRYLTILLTVLVFLLCGLPFG  
IQWFLILWIWSDSVLFCHIHVSVVLSLSSANPIIYFFVGSFRKQWRLQQPILKLAL  
QRALQDIAEVDHSEGCFRQGTPEMSRSSLV

>sp|Q96LA9|MRGX4\_HUMAN Mas-related G-protein coupled receptor member X4 OS=Homo sapiens  
GN=MRGPRX4 PE=2 SV=2

MDPTVPVFGTKLTPINGREETPCYNQTLSTVLTCTIISLVGLTGNVAVLWLLGYRMRRNA  
VSIYILNLAADFLFLSFQIIRLPLRLINISHLIRKILVSVMTFPYFTGLSMLSAISTER  
CLSVLWPIWYRCRRPRLHSAVVCVLLWGLSLLFSMLEWRFCDFLFSGADSSWCETSDFIP  
VAWLIFLCVVLVCSLVLLVRILCGSRKMPLTRYVTILLTVLVFLLCGLPFGILGALIY  
RMHLNLEVLYCHVYLCMSLSSANPIIYFFVGSFRQRQRNLKLVLRALQDKPE  
VDKGEQQLPEESLELSGSRLLGP

>sp|Q8NDA8|MROH1\_HUMAN Maestro heat-like repeat-containing protein family member 1  
OS=Homo sapiens GN=MROH1 PE=2 SV=3

MTESMKKLASTLLDAITDKDPLVQEQVCSALCSLGEARPVETLRACEEYLRQHDKLAHP  
YRAAVLRAMERVLSSRASELDKDTASTIILLASSEMTKTKDLVWDWQQAASGVLVAVGRQ  
FISKVMEELLRRHPGTLPHCAVLHTLASLSVANAFGVVPFLPSVLSLLPVLGVAKQDT  
VRVAFCSALQRFSEGALEYLANLDRAPDPTVRKDFAFATDIFSAYDVLFHQWLQSREAKLR  
LAVVEALGPMSHLLPSEERLEEQLPKLLPGILALYKKHAETFYLSKSLGQILEAAVSVGSR  
TLETQLDALLAALHSQICVPVESSSPLVMSNQKEVLRCTVLACSSPDRLLAFLLPRLDT  
SNERTRVGTQVVRHVINSAAAQMEDKKPFISSMRLPLLDTSKVKRAVVQVISAMAHH  
GYLEQPGGEAMIEYIVQQCALPPEQEPEKPGPSKDPKADSVRAISVRTLYLVSTTVDRM  
SHVLWPYLLQFLTPVRFTGALTPLCRSLVHLAQKRQEAGADAFLIQYDAHASLSPYAVT  
GRLLVVSSSPYLGDRGAAALRLLSVLHPNIHPLLGGHWETTVPLLLGYLDEHTEETLPQ  
EEWEEKLLMFLRDTLAIISDNAWICQLSLELCRQLPCYDEAPQEKNFYKICIGTTLGAAS  
SKEVVRKHLQELLEARYQEEAEREGLACCFGICAIHLEDTLAQLEDVFRSEVFRKSIG  
ILNIFKDRSENEVEKVSALILCYGHVAARAPRELVLAKVESDILRNICQHFSTKVLGK  
VETKDPALKCLVQSVCMVSRAICSSTQAGSFHFTRKAELVAQMMEFIRAEPDSLRTPI  
RKKAMLTCTYLVSEPALDEQARADVIHGCLHSIMALLPEPKEEDGGCQKSLYLETLHAL  
EDLLTSLQRNMTPQGLQIMIEHLSPIKSPRGHERARALGLSALLRYFLEHLRVSAV  
PFHNLGLLIGLFSRCPADLWPATRQEAVDCVYSLLYLQLGYEGFSRDYRDDVAERLLSLK  
DGLVHPDPAILFHTCHSVGQIIAKRLPPDQLISLLTMFEALGDPEKNCSRAATVMINCL  
LQERGGVLQEKVPEIVSVLRSKLQEAQGEHVLPAAQHSVYLLATQHCAAVVSSLLGSPLP  
LDSHTCMLWRALAVEPRLAAQVLGLLLEKMSRDVPFKESRAFLGRTPDRVATLLPLSAT  
CALFEVMSTPAAGPAVLELYPQLFVVLRLVSVCTVGVQLPRNLQAQERRGASPALATRL  
EPCSSAVDTLRSMLLRSGSEDVVQRMDLEGGWELLRTSAGHEEGATRLARAMAEHAGPRL  
PLVLKTLACTHSSAYENQRTTTAFLAELLNSNVANDLMLDSLESAAARQKDTCASVR  
RLVLRGLANLASGCPDKVRTHGPQLLTAMIGGLDDGDNPHSPVAEAMLGLARLVHLVES  
WDLRSGLLHVAIRIRPFDFSEKMEFRTASIRLFGHLNKVCHGDCEVFLDQVVGGLAPLL  
LHLQDPQATVASACRFALRMCGPNLACEELSAAFQKHLQEGRALHFGEFLNTTCKHLMHH  
FPDLLGRLLTTCLFYFKSSWENVRAAAPLFTGFLVLHSEPRQQPVVDLDQLIAALQILK  
DPAPEVTRAAEALGRLVKLA

>sp|P33527|MRP1\_HUMAN Multidrug resistance-associated protein 1 OS=Homo sapiens GN=ABCC1  
PE=1 SV=3

MALRGFCSADGSDPLWDNVTWNTSNPDFTKCFQNTVLVWVPCFYLWACFPFYFLYLSRH  
DRGYIQMTPLNKTALGFLWIVCWADLFYSFWERSRGIFLAPVFLVSPTLLGITMLLA  
TFLIQLERRKGVQSSGIMLTFWLVALVCALAILRSKIMTALKEDAQVDLFRDITFYVYFS  
LLLIQLVLSCFSDRSPLFSETIHDPNPCPESSASFLSRITFWWITGLIVRGYRQPLEGSD  
LWSLNKEDTSEQVVPVLVKNWKECAKTRKQPVKVYSSKDPAPKESKVDANEEVEAL  
IVKSPQKEWNPFLFKVLYKTFGPYFLMSFFFKAIHDLMMFSGPQILKLLIKFVNDRKAPD  
WQGYFYTVLLFVTACLQTLVLHQYFHCIVSGMRIKTAVIGAVYRKALVITNSARKSSTV  
GEIVNLMSVDAQRFMDLATYINMIWSAPLQVILALYLLWNLGPSVLAVAVMVLMPVN  
AVMAMTKTYQVAHMKSKDNRIKLMNEILNGIKVLKLYAWELAFKDKVLAIRQEELKVLK  
KSAYLSAVGTFTWVCTPFLVALCTFAVYVTIDENNILDAQTAQVSLALFNILRFPLNILP  
MVISSIVQASVSLKRLRIFLSHEELEPDSIERRPVKDGGGTNSITVRNATFTWARSPPPT  
LNGITFSIPEGALVAVVGQVCGKSSLLSALLAEMDKVEGHVAIKGSVAYVPQQAQWIQND  
SLRENILFGCQLEOPYRSVIQACALLPDLEILPSGDRTEIGEGVNLSSGGQKQVSLAR  
AVYSNADIYLFDDPLSAVDAHVGKHIFENVIGPKGMLKNKTRILVTHSMSYLPQVDVIV

MSGGKISEMGSYQELLARDGAFAEFLRTYASTEQQDAEENGVTGVSGPGKEAKQMENGMLVTDSAGKQLQRQLSSSSSYSGDISRHHNSTAELQKAEAKKEETWKLMEADKAQTGQVKLSVYWDYMKAIGLFISFLSIFLMCNHVSALASNYWLSLWTDPIVNGTQEHTKVRLSVYGALGISQGIIVFGYSMAVSIGGILASRCLHVDLLHSILRSPMSFFERTPSGNLVNRFKELDTVDSMIPEVIKMFMSGSLFNVIGACIVILLATPIAAIIIPPLGLIYFFVQRFYVASSRQLKRLESVSRSPVYSHFNETLLGVSVIRAFEEQERFIHQSDLKVDENQKAYPSIVANRWLA VRLECVGNCIVLFAALFAVISRHSLSAGLVGLSVSYSLQVTTYLNWLVRMSSEMETNIVA VERLKEYSETEKEAPWQIQETAPPSSWPQVGRVEFRNYCLRYREDLDFVLRHINVTINGG EKVGIVGRGTAGKSSLTLGLFRINESAEGEIIIDGINIAKIGLHDLRFKITIIPQDPVLF SGSLRMNLDPFQSQYDEEVWTSLELAHLKDFVSALPKLDHECAEGGENLSVGQRQLVCL ARALLRKTKILVLDEATAAVDLETDLLIQSTIRTQFEDCTVLTIAHRLNTIMDYTRVIVL DKGEIQEYGA PSDLLQQRGLFYMAKDAGLV

>sp|O15440|MRP5\_HUMAN Multidrug resistance-associated protein 5 OS=Homo sapiens GN=ABCC5 PE=1 SV=2

MKDIDIGKEYIIPSPGYRSVRERTSTSGTHRDREDSKFRRTRPLECQDALETAARAEGLS LDASMHSQRLRILDEEHPKGKYHHGLSALKPIRTTSKHQHPVDNAGLFSCMTFSWLSSLAR VAHKKGELSMEDVWSLSKHESDVNCRRLERLWQEELNEVGPDAAASLRRVWVIFCRTLILSIVCLMITQLAGFSGPAFMVKHLLLEYTQATESNLQYSLLLVLGLLLEIVRSWSLALTW ALNYRTGVRLRGAILTMAFKKILKLNIKEKSLGELINICSNDGQRMFEAAVGSLLAGG PVVAILGMIYNVIIIGPTGFLGSAVFIIFYPAMMFASRLTAYFRRKCAATDERVQKMNE VLTYIKFIKMYAWVKAFSQSVQKIREEERRILEKAGYFQSITVGAPIVVVIVASVVTFSV HMTLGFDLTAAQAFVTVTVFNSMTFALKVTPFSVKSLSEASVAVDRFKSLFLMEEVHMIK NKPASPHIKIEMKNATLAWDSSHSSIQNSPKLTPKMKDKRASRGKKEKVRQLQRTEHQA VLAEQKGHLLDSDERPSPEEEEGKHIHLGHLRLQRTLHSIDLEIQEGKLVGICGSGVSGG KTSLSAILGQMTLEGSIAISGTFAYVAQQAWILNATLRDNLFGKEYDEERYNSVLNS CCLRPDLAILPSSDLTEIGERGANLGGQQRQISLARALYSDRSIYILDPLSALDAHVG NHIFNSAIRKHLKSKTVLFVTHQLQYLVDCDEVIFMKEGCITERGTHEELMNLNGDYATI FNNLLLGETPPVEINSKKETSGSQKKSQDKGPKTGSVKKEKAVKPEEGQLVQLEEKGGGS VPWSVYGVYIQAAGGPLAFVLVIMALFMLNVGSAFSTWWLSYWIQKQSGNTTVTRGNETS VSDSMKDNPHMQYYASIIYALSMVMLILKAIRGVVFKGTLRASSRLHDELFRRIILRSPM KFFDFTPTGRILNRFKMDDEVDRLPFQAEMFIQNVILVFFCVGMIAGVFPWFLVAVGP LVILFSVLHIVSRVLIRELKRLDNITQSPFLSHITSSIIQLATIHAYNKGQEFLLHRYQEL LDDNQAPFFLFTCAMRWLAVRLDLISIALITTTGLMIVLMHGQIPPAYAGLAISYAVQLT GLFQFTVRLASETEARFTSVERINHYIKTSLSEAPARIKNKAPSPDWPQEGEVTFENAEM RYRENLPVLVKKVSFTIKPKEKIGIVGRGTSGKSSLGMAFRLVELSGGCIKIDGVRISD IGLADLRSKLSIIPQEPVLFSGTVRSNLDPFNQYTEDQIWDALERTHMKECIAQLPLKLE SEVMENGDNFSVGERQLLCIARALLRHCKILILDEATAAMDTETDLLIQETIREAFADCT MLTIAHRLHTVLGSDRIMVLAQGQVVEFDTPSVLLSNDSSRFYAMFAAAENKVAVKG

>sp|Q5T3U5|MRP7\_HUMAN Multidrug resistance-associated protein 7 OS=Homo sapiens GN=ABCC10 PE=1 SV=1

MERLLAQLCGSSAAWPLPLWEGDTTGHCFTQLVLSALPHALLAVLSACYLGTSPSPDYIL PCSPGWRLRLAASFLLSVFPLDLLPVALPPGAGPGPIGLEVLAGCVAVAWISHSLALW VLAHSPHGHSRGPLALALVALLPAPALVLTVLWHCQRGTLLPPLPGPMARCLLILQLA ALLAYALGWAAPGGPREPWAEPLLPEDQEPEVAEDGESWLSRFSYAWLAPLLARGACGE

LRQPQDICRLPHRLQPTYLARVFQAHWQEGARLWRALYGAFGRCYLALGLLKLVTMLGF  
SGPLLLSLLVGFLEEGQEPLSHGLLYALGLAGGAVLGAVLQNQYGYEVYKVTLQARGAVL  
NILYCKALQLGPSRPTGEALNLLGTDSERLNFAGSFHEAWGLPLQLAITLYLLYQQVG  
VAFVGGILALALLVPVNKVIATRIMASNQEMLQHKDARVKLVTELLSGIRVIKFCGWEQA  
LGARVEACRARELGRLRVIKYLDAAVCYLWAALPVVISIVIFITYVLMGHQLTATKVFTA  
LALVRMLILPLNNFPWVINGLLEAKVSLDRIQLFLDLPNHNPPQAYYSPDPPAEPSTVLEL  
HGALFSWDPVGTSLETFISHLEVKKGMLVGIVGKVGCGKSSLLAAIAGELHRLRGHVAVR  
GLSKGFLATQEPWIQFATIRDNILFGKTFDAQLYKEVLEACALNDDLSILPAGDQTEVG  
EKGVTLSGGQRARIALARAVYQEKEYLLDDPLAAVDADVANHLLHRCILGMLSYYTTRL  
CTHRTEYLERADAVLLMEAGRLIRAGPPSEILPLVQAVPKAWAENGQESDSATAQSVQNP  
EKTEGLEEEQSTSGRLLQEESKKEGAVALHVVYQAYWKAVGQGLALAILFSLLMQATRN  
AADWWLSHWISQLKAENSSQEAQPSTSPASMGFLSPQLLLFSPGNLYIPVFPLPKAAPNG  
SSDIRFYLTVYATIAGVNSLCTLLRAVLFAAGTLQAAATLHRRLLHRVLMAPVTFFNATP  
TGRILNRFSSDVACADDSLPIFNILLANAAGLLGLLAVLGSGLPWLLLLLPPLSIMYYH  
VQRHYRASSRELRLGSLTSPLYSHLADTLAGLSVL RATGATYRFEENLRLELNQRC  
QFATSATMQWLDIRLQLMGAAVSAIAGIALVQHQQGLANPGLVGLSLSYALSLTGLLSG  
LVSSFTQTEAMLSVERLEEYTCDLPEPQGGQLQLGTGWL TQGGVEFQDVVLAYRPGLP  
NALDGVTFVCVQGEKLGIVGRTSGKSSLLLVFRLLEPSSGRVLLDGVDTSQLELAQLR  
SQLAIIPEPFLFSGTVRENLDPQGLHKDRALWQALKQCHLSEVITSMGGLDGELGEGGR  
SLSLGQRQLLCLARALLTDAKILCIDEATASVDQKTDQLLQQTICKRFANKTVLTIAHRL  
NTILNSDRVLVLQAGRVVELDSPATLRNQPHSLFQQLQSSQGV PASLGGP

>sp|O15091|MRRP3\_HUMAN Mitochondrial ribonuclease P protein 3 OS=Homo sapiens GN=KIAA0391  
PE=1 SV=2

MTFYLFGIRSF PKLWKSPYLGLGPGHSYVSLFLADRCGIRNQQLFSLKTMSPQNTKATN  
LIAKARYLRKDEGSNKQVYSVPHFFLAGAAKERSQMNSQTEDHALAPVRNTIQLPTQPLN  
SEEWDLKEDLKENTGKTSFESWIIISQMAGCHSSIDVAKSLLAWVAAKNNGIVSYDLLVK  
YLYLCVFHMQTSEVIDVFEIMKARYKTLEPRGYSLLIRGLIHSRWRREALLLLEDIKKVI  
TPSKKNYNDCIQGALLHQDVNTAWNLYQELLGHDIVPMLETLKAFFDFGKDIKDDNYSNK  
LLDILSYLRNNQLYPGESFAHSIKTWVESVPGKQWKQGFTTVRKSGQCSGCGKTIESIQL  
SPEEYECLKGKIMRDVIDGGDQYRKTPQELKRFENFIKS RPPFDVVIDGLNVAKMFPKV  
RESQLLNVVSQLAKRNLRLVLGRKHMLRRSSQWSRDEMEEVQKQASCFFADDISEDDP  
FLLYATLHSGNHCRFITRDLMRDHKA CLPDAKTQRLFFKWQQGHQLAIVNRFP GSKLTFQ  
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>sp|Q9Y6F6|MRVI1\_HUMAN Protein MRVI1 OS=Homo sapiens GN=MRVI1 PE=1 SV=2

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LTSVDPAGHIIDLVDNQLPDISISEEDKKKNLALLEEAKLVSERFLTRRGRKSRSSPGDS  
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SELGKQLLKTGWEGSPLPRSPTQDAAGVGPPASQGRGPAGEPMGPEAGSKAELPPTVSRP  
PLLRLSWDSGPEEPGPRLQKVLAKLPLAEEEKRFAGKAGGKLAKAPGLKDFQIQVQPVR  
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SDVLLRKL RVHRS LPSAPPLTEKEVENFVQLSLAFRND SYTLES RINQAERERNLTEE  
NTEKELENFKASITSSASLWHHCEHRETYQKLLEDIAVLHRLAARLSSRAEVVGAVRQEK



RMSKATEVMMQYVENLKRTYEKDHAELEMEFKKLANQNSSRSCGPSEDGVPRTARMSLTL  
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GKTNGDPDCEASAPALTLSCLEELSQETKARMEEEAYSQGFQEGKKTKELQDLKEEEEE  
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>sp|Q5JR59|MTUS2\_HUMAN Microtubule-associated tumor suppressor candidate 2 OS=Homo sapiens GN=MTUS2 PE=1 SV=3

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RFEDVKRLGWQQQAELEERLQLQFEAMARLQEEHGDQLLSIRCQHQQVEDLTAS  
HDAALLEMENHTVAITILQDDHDHKVQELMSTHELEKKELEENFEKLRSLQDQVDTLT  
FQSQSLRDRARRFEEALRKNTTEEQLIALAPYQHLEEDMKSLKQVLEMKNQQIHEQEKKI  
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>sp|075431|MTX2\_HUMAN Metaxin-2 OS=Homo sapiens GN=MTX2 PE=1 SV=1

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MLLTAELYLQWCDEATVGEITHARYGSPYPWPLNHILAYQKQWEVKRKMKAIGWGKKTLD  
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>sp|Q9UIF7|MUTYH\_HUMAN Adenine DNA glycosylase OS=Homo sapiens GN=MUTYH PE=1 SV=1

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LQRWAGPLPATHLRHLGEVVHTFSHIKLTQVYGLALEGQTPVTTVPPGARWLTQEEFHT  
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LNSAAQ

>sp|P20592|MX2\_HUMAN Interferon-induced GTP-binding protein Mx2 OS=Homo sapiens GN=MX2  
PE=1 SV=1

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RGTEKSVMNVRNLTYPLKKGYMIVKCRGQQEITNRLSLAEATKKEITFFQTHPYFRVLL  
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EKYEKQYRGKELLGFVNYKTFEIIVHYYIQQLVEPALSMLQKAMEIIQQAFINVAKKHFG  
EFFNLNQTVQSTIEDIKVKHTAKAENMIQLQFRMEQMVFCQDQIYSVLKKVREEIFNPL  
GTPSQNMKLNSHFPSNESSVSSFTTEIGIHLNAYFLETSKRLANQIPFIQYFMLENGDS  
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>sp|P50539|MXI1\_HUMAN Max-interacting protein 1 OS=Homo sapiens GN=MXI1 PE=1 SV=2

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EAERKSQHLENLEREQRFKWRLEQLQGPQEMERIRMDSIGSTISSDRSDSREEIEVD  
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>sp|Q96JP2|MY15B\_HUMAN Unconventional myosin-XVB OS=Homo sapiens GN=MYO15B PE=1 SV=2

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VLSQVLGAESPLYHLGATKVLLQEQQWQRLEELRDQRSQALVDLHRSFHTCISRQRVLP  
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PYYLRLLCEQILRDTFSESCIRISQNERRMKDLLGGLEVDLDSLTTTEDSVKKRIVVAA  
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GVECRGGSTLELSLKSEQLVLHTARARAIEALVELFLNELKKDSGYVIALRSYITDNCSL  
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>sp|Q92614|MY18A\_HUMAN Unconventional myosin-XVIIa OS=Homo sapiens GN=MYO18A PE=1 SV=3

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>sp|075592|MYCB2\_HUMAN E3 ubiquitin-protein ligase MYCBP2 OS=Homo sapiens GN=MYCBP2 PE=1  
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>sp|Q9HB07|MYG1\_HUMAN UPF0160 protein MYG1, mitochondrial OS=Homo sapiens GN=C12orf10  
PE=1 SV=2

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ACALLRLLPEYRDAEIVRTRDPEKLASCDIVVDVGGEYDPRRHRYDHHQRSFTETMSSLS  
PGKPWQTKLSSAGLIYLFHGHKLLAQLLGTSEEDSMVGTLYDKMYENFVEEVDVNDNGIS  
QWAEGEPRYALTTLSARVARLNPTWNHPDQTEAGFKRAMDLVQEEFLQRLDFYQHSWL  
PARALVEEALAQRQVQDPSGEIVELAKGACPWKEHLYHLESGLSPPVAIFFVIYTDQAGQ  
WRIQCVPKEPHSFQSRLLPEPWRLRDEALDQVSGIPGCIFVHASGFTGGHHTREGALS  
MARATLAQRSYLPQIS

>sp|Q9BUA6|MYL10\_HUMAN Myosin regulatory light chain 10 OS=Homo sapiens GN=MYL10 PE=2  
SV=2

MLLRLVSNWPQVILPPRPPKVLGLQAPRRARKRAEGTASSNVFSMFDQSQIQEFKESLA  
LSPRLERNGMISAHCNLCLTGSSNSPASASQAFTIMDQNRDGFIDKEDLRDTFAALGRIN  
VKNEELEAMVKEAPGPINFTVFLTMFGEKLKGTDPREETILHAFKVFDTGKGFVKADVIK  
EKLMQTQADRFSEEEVKQMFAPFPDVCNLDYRNLCYVITHGEEKD

>sp|Q02045|MYL5\_HUMAN Myosin light chain 5 OS=Homo sapiens GN=MYL5 PE=2 SV=1

MASRKTKKKEGGALRAQRASSNVFSNFEQTQIQEFKEAFTLMDQNRDGFIDKEDLKDTYA  
SLGKTNVKDDELDAMLKEASGPINFTMFLNLFGEKLSGTDAEETILNAFKMLDPDGKGKI  
NKEYIKRLLMSQADKMTAEVDQMFQFASIDVAGNLDYKALSYVITHGEEKEE

>sp|Q9NPC7|MYNN\_HUMAN Myoneurin OS=Homo sapiens GN=MYNN PE=1 SV=1

MQYSHHCEHLLERLNKQREAGFLCDCTIVIGEFQFKAHRNVLASFSEYFGAIYRSTSENN  
VFLDQSQVKADGFQKLEFIYTGTNLNDSWNVKEIHQAADYLKVEEVTKCKIKMEDFAF  
IANPSSTEISSITGNIELNQTCLLTLRDYNNREKSEVSTDLIQANPKQGALAKKSSQTK  
KKKKAFFNSPKTGQNKTVQYPSDILENASVELFLDANKLPTPVVEQVAQINDNSELELTSV  
VENTFPAQDIVHTVTVTKRGRGKSPNCALKEHSMSNIASVKSPYEAENSGEELDQRYSKA  
KPMCNTCGKVFSEASSLRRHMRHKGVKPYVCHLCGKAFTQCNQLKTHVRTHTGEKPYKC  
ELCDKGFAQKCQLVFHSRMHHGEEKPYKCDVCNLQFATSSNLKIHARKHSGEKPYVCDRC  
GQRFQAQASTLTYHVRRTGEKPYVCDTCGKAFAVSSSLITHSRKHTGEKPYICGICGSF  
ISSGELNKHFRSHTGERPFICELCGNSYTDIKNLKKHKTKVHSGADKTLDSAEHTLSE  
QDSIQKSPLSETMDVKPSDMTLPLALPLGTEDHHMLLPVTDTSPTSSTLLRSTVNGYSE  
PQLIFLQQLY

>sp|Q9HD67|MYO10\_HUMAN Unconventional myosin-X OS=Homo sapiens GN=MYO10 PE=1 SV=3

MDNFFTEGTRVWLRENGQHFPSTVNSCAEGIVVFRTDYGQVFTYKQSTITHQKVTAMHPT  
NEEGVDDMASLTELGGSIMYNLFQRYKRNQIYTYIGSILASVNPYQPIAGLYEPATMEQ  
YSRRHLGELPPHIFAIANECYRCLWKRHDNQCILISGESGAGKTESTKLILKFLSVISQQ  
SLELSLKEKTSCEVERAILESSPIMEAFGNAKTVYNNSSSRFGKFVQLNICQKGNIQGGRI  
VDYLLEKNRVVRQNPGERNYHIFYALLAGLEHEEREFFYLSTPENYHYLNQSGCEDKTI  
SDQESFREVITAMDVMQFSKEEVREVSRLLAGILHLGNIEFITAGGAQVSFKTALGRSAE  
LLGLDPTQLTDALTQRSMFLRGEEILTPLNVQQAVDSRDSLAMALYACCFEWWIKKINSR  
IKGNEDFKSIGILDIFGFENFEVNHFEQFNINYANEKLQEYFNKHIFSLEQLEYSREGLV  
WEDIDWIDNGECLDIEKKLGLLALINEESHFPQATDSTLLEKLHSQHANNHFYVKPRVA  
VNNFGVKHYAGEVQYDVRGILEKNRDTFRDLDLNLRESRFDIYDLFEHVSSRNNQDTL  
KCGSKHRRPTVSSQFKDSLHSLMATLSSSNPFFVRCIKPNMQKMPDQFDQAVVLNQLRYS  
GMLETVRIRKAGYAVRRPFQDFYKRYKVLMRNLALPEDVRGKCTSLQLYDASNSEWQLG  
KTKVFLRESLEQKLEKRREEEVSHAAMVIRAHVLGFLARKQYRKVLYCVVIIQKNYRAFL  
LRRRFLHLKKAIVFQKQLRGQIARRVYRQLLAEKREQEEKKKQEEEEKKKREEERERE  
RERREAELRAQEEEETRKQQELEALQKSQKEAELTRELEKQKENKQVEEILRLEKEIEDL  
QRMKEQQELSLTEASLQKLQERRDQELRRLEEEACRAAQEFLESLNFDEIDECVRNIERS  
LSVGSEFSSELAESACEEKNFNFNSQYPPEEEVDEGFEADDDAFKDSPNPSEHGHSQRT  
SGIRTSDDSSSEEDPYMNDTVPTSPSADSTVLLAPSVQDSGLHNSSSGESTYCMPQNAG  
DLPSPDGDYDYDQDDYEDGAITSGSSVTFSNSYGSQWSPDYRCSVGTYNSSGAYRFSSEG  
AQSSFEDSEEDFDSRFDTDDELSYRRDSVYSCVTLPYFHSFLYMKGGLMNSWKRRWCVLK  
DETFLWFRSKQEAALKQGWLHKKGGGSSTLSRRNWKKRWFVLRQSKLMYFENDSEEKLGKT  
VEVRTAKEIIDNTTKENGIDIIMADRTFHLIAESPEDASQWFSVLSQVHASTDQEIQEMH  
DEQANPQNAVGTLDVGLIDSVCASDSPDRPNSFVIITANRVLHCNADTPEEMHHWITLLQ

RSKGDTRVEGQEFIVRGWLHKEVKNSPKMSSLKLRWFVLTHNSLDYYKSSEKNALKLG  
TLVLNSLCSVPPDEKIFKETGYWNVTYVGRKHCYRLYTKLLNEATRWSSAIQNVDTKA  
PIDTPTQQLIQDIKENCLNSDVVEQIYKRNPIILRYTHHPLHSPLPLPYGDINLNLKDK  
GYTTLQDEAIKIFNSLQQLESMDPIPIIQGILQTGHDLRPLRDELYCQLIKQTNKVPHP  
GSVGNLYSWQILTCLSCFTLPSRGILKYLKFHLKRIREQFPGSEMEKYALFTYESLKKT  
CREFVPSRDEIEALHRQEMTSTVYCHGGGCKITINSHTTAGEVVEKLIRGLAMEDSRN  
MFALFEYNGHVDKAIESRTVADVLAKEFLAATSEVGDLPWKFYFKLYCFLDTDNVPKD  
SVEFAFMFEQAHEAVIHGHHPAPEENLQVLAALRLQYLQGDYTLHAAIPPLEEVYSLQRL  
KARISQSTKTFTPCERLEKRRTSFLEGLRRSFRTGSVVRQKVEEQMLDMWIKKEVSSA  
RASIIDKWRKFQGMNQEQAMAKYMALIKWPGYGSTLFDVECKEGGFPQELWLGVSADAV  
SVYKRGEGRPLEVFQYEHILSFGAPLANTYKIVVDERELLFETSEVVDVAKLMKAYISMI  
VKKRYSTTRSASSQGSSR

>sp|O00159|MYO1C\_HUMAN Unconventional myosin-Ic OS=Homo sapiens GN=MYO1C PE=1 SV=4

MALQVELVPTGEIIRVVHPRPCKLALGSDGVRVTMESALTARDRVGVQDFVLLNFTSE  
AAFIENLRRRFRENLIYTYIGPVLVSVNPYRDLQIYSRQHMERYRGVSFYEVPPHLFAVA  
DTVYRALRTERRDQAVMISGESGAGKTEATKRLLQFYAETCPAPERGGAVRDRLQSNPV  
LEAFGNAKTLRNDNSSRFGKYMVDVQDFDKGAPVGGHILSYLLEKSRVVHQNHGERNFHIF  
YQLLEGGEETLRLGLERNPQSYLYLVKGQCAKVSSINDKSDWKVVRKALTVIDFTEDE  
VEDLLSIVASVLHLGNIHFAANESNAQVTTENQLKYLTRLSSVEGSTLREALTHRKI  
KGEELLSPLNLEQAAYARDALAKAVYSRTFTWLVGKINRSLASKDVESPSWRSTTVLGLL  
DIYGFVEFQHNSEFCINYNELKQLFIELTLKSEEEYEAEGIAWEPVQYFNNKIIC  
DLVEEKFKGIISILDEECLRPGEATDLTFLEKLEDTVKHHPHFLTHKLADQRTRKSLGRG  
EFRLHYAGEVTYSVTGFLDKNNDLLFRNLKETMCSSKNPIMSQCDFRSELSDKKRPETV  
ATQFKMSLLQLVEILQSKEPAYVRCIKPNDKQPGRFDEVLRHQVKYLGLENLRVRA  
GFAYRRKYEAFLQRYKSLCPETWPTWAGRPQDGVAVLRHLGYKPEEYKMGRTKIFIRFP  
KTLFATEDALEVRRQSLATKIQAARWGFHWRQKFLRVKRSACIQSWWRGTLGRRKAAKR  
KWAAQTIRRLIRGFVLRHAPRCPENAFDLHVRTSFLNLRRQLPQNVLDTSWPTPPPAL  
REASELLRELCKNMVWKYCRSISPEWKQLQKQKAVASEIFKGKKNYPQSVPRLFISTR  
LGTDEISPRVLQALGSEPIQYAVPVVKYDRKGYKPRSRQLLTPNAVVIDAKVKQRID  
YANLTGISVSSLSLFLVHVQRADNKQKGDVVLQSDHVIETLTKTALSANRVNSININQ  
GSITFAGGPGRDGTIDFTPGSELLITKAKNGHLAVVAPRLNSR

>sp|Q9NP98|MYOZ1\_HUMAN Myozenin-1 OS=Homo sapiens GN=MYOZ1 PE=1 SV=1

MPLSGTPAPNKKRKSSKLIMELTGGGQESSGLNLGKKISVPRDVMLEELSLLTNRGSKMF  
KLQRMRVEKFIYENHPDVFSDSSMDHFQKFLPTVGGQLGTAGQGFSYSKSNRGGGQAGG  
SGSAGQYQSDQHHLGSGGAGGTGGPAGQAGRGAAGTAGVGETGSGDQAGGEGKHITV  
FKTYISPOWERAMGVDPQQKMELGIDLLAYGAKAELPKYKSFNRTAMPYGGYEKASKRMTF  
QMPKFDLGPLLSEPLVLYNQNLNRPFSNRTPIPWLSGEPVDYNVDIGIPLDGETEEL

>sp|Q8WU39|MZB1\_HUMAN Marginal zone B- and B1-cell-specific protein OS=Homo sapiens  
GN=MZB1 PE=1 SV=1

MRLSLPLLLLLLAWAIPGGLGDRAPLTATAPQLDDEEMYSAHMPAHLRCDACRAVAYQM  
WQNLAKAETKLHTSNSGGRRELSLVYTDVLDLRSCSRNWQDYGVREVDQVKRLTGPGGLSE  
GPEPSISVMVTGGPWPTRLSRTCLHYLGEFGEDQIYEAHQQRGALEALLCGGPQGACSE  
KVSATREEL

>sp|P32418|NAC1\_HUMAN Sodium/calcium exchanger 1 OS=Homo sapiens GN=SLC8A1 PE=1 SV=3

MYNMRRLSLSPTFMSGFHLLVTVSLLFSHVDHVIAETEME GEGNETGECTGSYYCKKGV I  
LPIWEPQDPSFGDKIARATVYFVAMVYMF LGSIIADRFMSSIEVITSQEKEITIKKPNG  
ETTKTVRIWNETVSNLTLMALGSSAPEILLSVIEVCGHNFTAGDLGPSTIVGSAAFNMF  
IIIALCVYVVPDGETRKIKHLRVFFVTAAWSIFAYTWLYIILSVISPGVVEVWEGLLTFF  
FFPICVFAWVADRRLLFYKYVYKRYRAGKQRGMIIEHEGDRPSSKTEIEMDGKVVNSHV  
ENFLDGALVLEVDERDQDDEEARREMARILKELKQKHPDKEIEQLIELANYQVLSQQQKS  
RAFYRIQATRLMTGAGNILKRHAADQARKAVSMHEVNTTEVTENDPVSKIFFEQGTYQCLE  
NCGTVALTIIIRGGDLTNTVFVDFRTEDGTANAGSDYEFTEGTVVFKPGDTQKEIRVGII  
DDDI FEEDENFLVHLSNVKVSSEASEDGILEANHVSTLACLGSPSTATVTIFDDDHAGIF  
TFEEPVTHVSESIGIMEVKVLR TSGARGNIVPYKTIEGTARGGGEDFEDTCGELEFQND  
EIVKTISVKVIDDEEYEKNKTFLEI GEPRLVEMSEKKALLLNELGGFTITGKYLFGQP V  
FRKVHAREHPILSTVITI ADEYDDKQPLTSKEEEEERRIAEMGRPILGEHTKLEVIIEESY  
EFKSTVDKLIKKTNLALVVG TNSWREQFIEAITVSAGEDDDDDDEC GEEKLPSCFDYVMHF  
LTVFWKVLFAFVPPEYWNWACFIVSILMIGLLTAFIGDLASHFGCTIGLKDSVTAVVF  
VALGTSVPD TFASKVAATQDQYADASIGNVTGSNAVNVLGIGVAWSIAAIYHAANGEQF  
KVSPGTLAFSVTLFTIFAFINVG VLLYRRRPEIGGELGGPRTAKLLTSCLFVLLWLLYIF  
FSSLEAYCHIKGF

>sp|Q96RE7|NACC1\_HUMAN Nucleus accumbens-associated protein 1 OS=Homo sapiens GN=NACC1  
PE=1 SV=1

MAQTLQMEIPNFGNSILECLNEQRLQGLYCDVSVVVKGHAFKAHRAVLAASSSYFRDLFN  
NSRSAVVELPAAVQPQSFQQILSFCYTGRLSMNVGDQFLLMYTAGFLQIQEIMEKGTEFF  
LKVSSPSCDSQGLHAEEAPSSEPQSPVAQTSGWPACSTPLPLVSRVKTEQQESDSVQCMF  
VAKRLWDSGQKEAGGGGNGSRKMAKFSTPDLAANRPHQPPPPQAPVAAAQPAVAAGAG  
QPAGGVAAAAGGVSPSTSER TSPGTSSAYTSDSPGSYHNEEDEEDGGEEGMDEQYRQI  
CNMYTMYSMMNVGQTAEKVEALPEQVAPESRNRIRVRQDLASLPAELINQIGNRCHPKLY  
DEGDPSEKLELVTGTNVYITRAQLMNCHVSAGTRHKVLLRRLASFFDRNTLANSCGTGI  
RSSTNDPRRKPLDSRVLHAVKYQCQNFAPNFKESEMNAIAADMCTNARRVVRKSWMPKVK  
VLKAEDDAYTTTIFSETGKIEPDMMGVEHGFETASHEGEAGPSAEALQ

>sp|Q9UJ70|NAGK\_HUMAN N-acetyl-D-glucosamine kinase OS=Homo sapiens GN=NAGK PE=1 SV=4

MAAIYGGVEGGGTRSEVLLVSEDGKILAEADGLSTNHWLIGTDKCOVERINEMVNRKRKA  
GVDPLVPLRSLGLSLSGGDQEDAGRILIEELRDRFPYLSYELITDAAGSIATATPDGG  
VVLISGTGSNCRLINPDGSESGCGGWHMMGDEGSAYWIAHQAVKIVFDSIDNLEAAPHD  
IGYVKQAMFHYPVDPRLGILTHLYRDFDKCRFAGFCRKIAEGAQQGDPLSRYIFRKAGE  
MLGRHIVAVLPEIDPVLFQGKIGLPILCVGSVWKS WELLKEGFL LALTQGREIQAQNFFS  
SFTLMKLRHSSALGGASLGARHIGHLLPMDYSANAI AFYSYTF S

>sp|Q8N159|NAGS\_HUMAN N-acetylglutamate synthase, mitochondrial OS=Homo sapiens GN=NAGS  
PE=1 SV=1

MATALMAVVLRAAAVAPRLRGRGGTG GARRLSCGARRRAARGTSPGRRLSTAWSQPQPPP  
EEYAGADDVSQSPVAEEPSWVPSRPPVP HESPEPPSGRSLVQRDIQAFLNQCGASPGEA  
RHWLTQFQTCHHSADKPFVAVIEVD EEV LKCCQGVSSLAFAFLQRMDMKPLVVLGLPAP  
TAPSGCLSFWEAKAQLAKSCKVLVDALRHNA AAVPFFGGGSVLRAAEPAPHASYGGIVS  
VETDLLQWCLESGSIPILCPIGETAARRSVLLDSLEV TASLAKALRPTKII FLNNTGGLR  
DSSHKVLSNVNLPADLDLVCAE WVSTKERQQMRLIVDVLSRLPHHSSAVITAASTLLTE  
LFSNKGSGTLFKNAERMLRVRSLDKLDQGRLVDLVNASFGKKLRDDYLASLRPRLHSIYV



SEGYNAAAILTMEPVLGGTPYLDKFVSSSRQGGSGQMLWECLRRDLQTLFWRSRVTNP  
INPWYFKHSDGSFSNKQWIFFWFGGLADIRDSYELVNHAKGLPDSFHKPASDPGS

>sp|Q69YI7|NAIF1\_HUMAN Nuclear apoptosis-inducing factor 1 OS=Homo sapiens GN=NAIF1 PE=1  
SV=1

MAVPAKKRKMNFSEREVEIIVEEELKKHLLVNHFNAGVPLAAKSAAWHGILRRVNAVAT  
CRRELPEVKKKWSDLKTEVRRKVAQVRAAVEGGEAPGPTTEEDGAGGPGTGGSGGGGPAV  
APVLLTPMQQRICNLLGEATIISLPSTTEIHPVALGPSATAAAATVTLTQIPTETTYHTL  
EEGVVEYCTAEAPPPLPPETPVDMAQHADTSVKPQALKSRIALNSAKLIQEQRVTNLHV  
KEIAQHLEQQNDLLQMIRRSQEVQACAQERQAQAMEGTQAALSVLIQVLRPMIKDFRRYL  
QSNTANPAPASDPGQVAQNGQPDSTIIQ

>sp|Q4G0N4|NAKD2\_HUMAN NAD kinase 2, mitochondrial OS=Homo sapiens GN=NADK2 PE=1 SV=2

MTCYRGFLLGSCCRVAGGAAALRGPGAGGPAARPRLGDDGGRRHLGQGQPRELAGCGS  
RADGGFRPSRVVVVAKTTRYEFEQQRYRYAELSEEDLKQLLALKGSSYSGLLERHHIHTK  
NVEHIIDSLRNEGIEVRLVKRREYDEETVRWADAVIAAGDGTMLLAASKVLDRLKPVIG  
VNTDPERSEGHLCPLVRYTHSFPEALQKFYRGEFRWLWRQIRLYLEGTGINPVPVDLHE  
QQLSLNQHNRLNIERAHDERSEASGPQLLPVRALNEVFIGESLSSRASYYEISVDDGPW  
EKQKSSGLNLCTGTGSKAWSFNINRVATQAVEDVLNIAKRQGNLSLPLNRELVEKVTNEY  
NESLLYSPEEPKILFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMVVDGGTSFEFN  
DGAIASMMINKEDELRTVLLEQ

>sp|P59045|NAL11\_HUMAN NACHT, LRR and PYD domains-containing protein 11 OS=Homo sapiens  
GN=NLRP11 PE=2 SV=2

MAESDSTDFDLLWYLENLSDFEFQSFKKYLARKILDFKLPQFPLIQMTKEELANVLPISY  
EGQYIWNMLFSIFSMRMRKEDLCRKIIIGRRNRNQEACKAVMRKRFMLQWESHTFGKFHYKF  
FRDVSSDVFYILQLAYDSTSYYSANNLNVFLMGERASGKTIVINLAVLRWIKGEMWQNM  
SYVVHLTAHEINQMTNSSLAELIAKDWPDGQAPIADILSDPKLLFILEDLNIRFELNV  
NESALCSNSTQKVPIPVLLVSLKLRKMAPGCWFLISSRPTRGNNVKTFLKEVDCCTTLQL  
SNGKREIYFNSFFKDRQRASAALQLVHEDEILVGLCRVAILCWITCTVLKRQMDKGRDFQ  
LCCQTPDLDLHAHFLADALTSEAGLTANQYHLGLLKRLCLLAAGGLFLSTLNFSGEDLRCV  
GFTEADVSVLQAANILLPSNTHKDRYKFIHLNVQEFCTAIAFLMAVPNYLIPSGSREYKE  
KREQYSDFNQVFTFIFGLLNANRRKILETSFGYQLPMVDSFKWYSVGYMKHLDRDPEKLT  
HHMPLFYCLYENREEEFVKTIVDALMEVTYVLQSDKDMMSLYCLDYCCHLRTLKLSVQR  
IFQNKELPIRPTASQMKSLVYWREICSLFYTMESLRELHIFDNDLNGISERILSKALEHS  
SCKLRTLKLSYVSTASGFEDLLKALARNRSLTYLSINCTSISLNMFSLLHDILHEPTCQI  
SHLSLMKCDLRASECEEIASLLISGGSRLKLTSSNPLRSDGMNLCALLHPNCTLISL  
VLVFCCLTENCCSALGRVLLFSPTLRQLDLCVNRLKNYGVLVHTFPLLFPTCQLEELHLS  
GCFSSDICQYIAIVIATNEKLRSLEIGSNKIEDAGMQLLCGGLRHPNCMLVNIGLEECM  
LTSACCRSLASVLTNTKTLERLNLQNLHGNDGVAKLLESLSIPDCVLKVVGLPLTGLNT  
QTQQLLMTVKERKPSLIFLSETWSLKEGREIGVTPASQPGSIIPNSNLDYMFKFPRMSA  
AMRTSNTASRQPL

>sp|Q13126|MTAP\_HUMAN S-methyl-5'-thioadenosine phosphorylase OS=Homo sapiens GN=MTAP  
PE=1 SV=2

MASGTTTTAVKIGIIGGTGLDDPEILEGRTEKYVDTPFGKPSDALILGKIKNVDCVLLAR  
HGRQHTIMPSKVNYQANIWALKEEGCTHVIVTTACGSLREEIQPGDIVIIDQFIDRTTMR  
PQSFYDGSWSCARGVCHIPMAEPFCPKTREVLIETAKKLGRLCHSKGTMVTIEGPRFSSR

AESFMFRTWGADVINTTVPEVVLAKEAGICYASIAMATDYDCWKEHEEAVSVDRVLKTL  
KENANKAKSLLLTTPQIGSTEWSETLHNLKNMAQFSVLLPRH

>sp|P13995|MTDC\_HUMAN Bifunctional methylenetetrahydrofolate  
dehydrogenase/cyclohydrolase, mitochondrial OS=Homo sapiens GN=MTHFD2 PE=1 SV=2

MAATSLMSALAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQVEVEEW  
VASGNKRPHLSVILVGENPASHSYVLNKTAAAVVGINSETIMKPASISSEELLNLINKL  
NNDDNDVDGLLVQLPLPEHIDERRICNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGV  
WEIIKRTGIPTLGNVAVGRSKNVGMPIAMLLHTDGAHERPGGDATVTISHRYTPKEQL  
KKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQ  
KAGYITPVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

>sp|Q9BV57|MTND\_HUMAN 1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase OS=Homo  
sapiens GN=ADI1 PE=1 SV=1

MVQAWYMDAPGDPRQPHRPDPGRPVGLEQLRRLGVLYWKLDADKYENDPELEKIRRERN  
YSWMDIITICKDKLPNYEEKIKMFYEEHLHLDDEIRYILDGSGYFDVRDKEDQWIRIFME  
KGMVTLTLAGIYHRFTVDEKNYTKAMRLFVGEVWTAYNRPADHFEARGQYVKFLAQTA

>sp|P48039|MTR1A\_HUMAN Melatonin receptor type 1A OS=Homo sapiens GN=MTNR1A PE=1 SV=1

MQGNGSALPNASQPVLRGDGARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKLRN  
AGNIFVVS LAVADLVVAIYPYPLVMSIFNNGWNLGYLHCQVSGFLMGLSVIGSIFNITG  
IAINRYCYICHSLKYDKLYSSKNSLCYVLLIWLLTLAAVLPNLRAGTLQYDPRIYSCTFA  
QSVSSAYTIAVVVFHFLVPMIIVIFCYLRIWILVLQVRQVRKPKRKPQDFRNFVTM  
FVVFLFAICWAPLNFGLAVASDPASMPRIPEWLFVASYMAYFNSCLNAIIYGLLNQ  
NFRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVKVDVSV

>sp|Q13585|MTR1L\_HUMAN Melatonin-related receptor OS=Homo sapiens GN=GPR50 PE=1 SV=3

MGPTLAVPTPYGCIGCKLPQPEYPPALIIFMFCAMVITIVVDLIGNSMVILAVTKNKKLR  
NSGNIFVVSLSVADMLVAIYPYPLMLHAMSIGGWDSLQLCQMVGFITGLSVVGSIFNIV  
AIAINRYCYICHSLQYERIFSVRNTCIYLVITWIMTVLAVLPNMYIGTIEYDPRTYTCIF  
NYLNNPVFTVTIVCIHFVLPLLIVGFCYVRIWTKVLAARDPAGQNPNDQLAEVRNFLTMTF  
VIFLLFAVCWCPINVLTVLAVSPKEMAGKIPNWLAAFYIAYFNSCLNAVITYGLLNEN  
FRREYWTIFHAMRHPIIFFSGLISDIEMQEARTLARARAHARDQAREQDRAHACPAVEE  
TPMNVNRNVPLPGDAAAGHPDRASGHPKPHSRSSSAYRKSASTHHKSVFSSKAASGHLKP  
VSGHSPASGHPKSAATVYPKPASVHFKAADVHFKGDSVHFKPDSVHFKPASSNPKPITGH  
HVSAGSHSKSAFSAATSHPKPTTGHIPATSHAEPPTADYPKPATTSHPKPTAADNPELS  
ASHCPEIPAIAHPVSDDSDLPESASSPAAGPTKPAASQLESDDTIADLPDPTVTTSTNDY  
HDVVVIDVEDDPDEMAV

>sp|Q8N3F0|MTURN\_HUMAN Maturin OS=Homo sapiens GN=MTURN PE=2 SV=2

MDFQQLADVAEKWCNTPFELIATEETERRMDFYADPGVSFYVLCPDNGCGDNFHVWSES  
EDCLPFLQLAQDYISSCGKKTLEHVLEKVFKSFRPLLGLPDADDDAFEESADVEEEPE  
ADHPQMGVSQQ

>sp|Q5HYI7|MTX3\_HUMAN Metaxin-3 OS=Homo sapiens GN=MTX3 PE=1 SV=2

MAAPLELSCWGGGWLPVHSESLVVMAYAKFSGAPLKVNVIDNTWRGSRGDVPILTETD  
DMVSQPAKILNFLRKQKYNADYELSAKQGADTLAYIALLEEKLLPAVLHTFWVESDNYFT  
VTKPWFASQIPFPLSLILPGRMSKALNRILLTRGQPPLYHLREVEAQIYRDAKECLNLL  
SNRLGTSQFFFGDTPSTLDAYVFGFLAPLYKVRFPKVQLQEHLKQLSNLCRFCDDILSSY  
FRLSLGGISPAGQETVDANLQKLTQLVNKESNLEKMDDNLRQSPQLPPRKLPTLKLTPA

EEENNSFQRLSP

>sp|O15146|MUSK\_HUMAN Muscle, skeletal receptor tyrosine-protein kinase OS=Homo sapiens  
GN=MUSK PE=1 SV=1

MRELVNIPLVHILTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCIVESYPQPEIS  
WTRNKILIKLFDTRYISIRENGQLLTILSVEDSDDGIYCCTANNGVGGAVESCGALQVKMK  
PKITRPPINVKIIIEGLKAVLPCTTMGNPKPSVSWIKGDSPLRENSRIAVLESGSLRIHNV  
QKEDAGQYRCVAKNSLGTAYSKVVKLEVEVFARILRAPESHNVTFGSFVTLHCTATGIPV  
PTITWIENGNAVSSSGSIQESVKDRVIDSRLQLFITKPGLYTCIATNKHGEKFSTAKAAAT  
ISIAEWSKPKQKDNKGYCAQYRGEVCNAVLAKDALVFLNTSYADPEEAQELLVHTAWNELK  
VVSPVCRPAAEALLCNHIFQECSPGVVPTPIPICREYCLAVKELFCAKEWLVMEETHRG  
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>sp|P22033|MUTA\_HUMAN Methylmalonyl-CoA mutase, mitochondrial OS=Homo sapiens GN=MUT PE=1  
SV=4

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>sp|Q7Z401|MYCPP\_HUMAN C-myc promoter-binding protein OS=Homo sapiens GN=DENND4A PE=1  
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>sp|P02144|MYG\_HUMAN Myoglobin OS=Homo sapiens GN=MB PE=1 SV=2  
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>sp|Q9H6N6|MYH16\_HUMAN Putative uncharacterized protein MYH16 OS=Homo sapiens GN=MYH16  
PE=1 SV=2

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>sp|Q9UKX2|MYH2\_HUMAN Myosin-2 OS=Homo sapiens GN=MYH2 PE=1 SV=1

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>sp|Q9Y623|MYH4\_HUMAN Myosin-4 OS=Homo sapiens GN=MYH4 PE=2 SV=2

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>sp|P24844|MYL9\_HUMAN Myosin regulatory light polypeptide 9 OS=Homo sapiens GN=MYL9 PE=1  
SV=4

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>sp|Q9UKN7|MYO15\_HUMAN Unconventional myosin-XV OS=Homo sapiens GN=MYO15A PE=1 SV=2

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>sp|043795|MYO1B\_HUMAN Unconventional myosin-Ib OS=Homo sapiens GN=MYO1B PE=1 SV=3

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>sp|O94832|MYO1D\_HUMAN Unconventional myosin-Id OS=Homo sapiens GN=MYO1D PE=1 SV=2

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>sp|Q8WXR4|MYO3B\_HUMAN Myosin-IIb OS=Homo sapiens GN=MYO3B PE=2 SV=4

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>sp|Q9Y4I1|MY05A\_HUMAN Unconventional myosin-Va OS=Homo sapiens GN=MY05A PE=1 SV=2

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>sp|Q9ULV0|MY05B\_HUMAN Unconventional myosin-Vb OS=Homo sapiens GN=MY05B PE=1 SV=3

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>sp|Q13402|MY07A\_HUMAN Unconventional myosin-VIIa OS=Homo sapiens GN=MY07A PE=1 SV=2

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>sp|Q86VE0|MYPOP\_HUMAN Myb-related transcription factor, partner of profilin OS=Homo sapiens GN=MYPOP PE=1 SV=2

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>sp|Q01538|MYT1\_HUMAN Myelin transcription factor 1 OS=Homo sapiens GN=MYT1 PE=1 SV=2

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>sp|P28698|MZF1\_HUMAN Myeloid zinc finger 1 OS=Homo sapiens GN=MZF1 PE=1 SV=3

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EHPRALWHEEAGGIFSPGFALQLGSI SAGPGSVSPHLHVPWDLGMAGLSGQIQSPSREGG  
FAHALLPSDLRSEQDPTDEDPCRGVGPALITTRWRSRGRSRGRPSTGGGVVRGGRCDV  
CGKVFQSRSNLLRHQKIHTGERPFVCSECGRSFSRSSHLLRHQLTHTEERPFVCGDCGQG  
FVRSARLEEHRVHTGEQPFRCACGQSFRQRSNLLQHQRHGDPPGPGAKPPAPPGAPE  
PPGPFPCSECFARRAVLLEHQAVHTGDKSFGCVECGERFGRRSVLLQHRRVHSGERP  
FACAECGQSFRQRSNLTQHRRHTGERPFACAECGKAFRQRPTLTQHLRVHTGEKPFACP  
ECGQRFQRLKLTRHQRTHTEKPYHCGECGLGFTQVSRLTEHQRHTGERPFACPECGQ  
SFRQHANTQHRRHTGERPYACPECGKAFRQRPTLTQHLRTHRREKPFACQDCGRRFHQ  
STKLIHQHQRVHSAE

>sp|Q08AG7|MZT1\_HUMAN Mitotic-spindle organizing protein 1 OS=Homo sapiens GN=MZT1 PE=1  
SV=2

MASSSGAGAAAAAANLNAVRETMDVLEISRILNTGLDMETLSICVRLCEQGINPEAL  
SSVIKELRKATEALKAAENMTS

>sp|Q6NZ67|MZT2B\_HUMAN Mitotic-spindle organizing protein 2B OS=Homo sapiens GN=MZT2B  
PE=1 SV=1

MAAQGVGPGGSAAPPGLEAARQKLALRRKKVLSTEEMELYELAQAAGGAIDPDVFKILV  
DLLKLNVAPLAVFQMLKSMCAGQRLASEPQDPAAVSLPTSSVPETGRNKGSAALGGALA  
LAERSSREGSSQRMPRQPSATRLPKGGGPGKSPTRGST

>sp|P47944|MT4\_HUMAN Metallothionein-4 OS=Homo sapiens GN=MT4 PE=3 SV=2  
MDPRECVCMSGGICMCGDNCKCTTCNCKTYWKSPPGCCAKCARGCICKGGSDKCSC  
CP

>sp|Q765P7|MTSSL\_HUMAN MTSS1-like protein OS=Homo sapiens GN=MTSS1L PE=1 SV=1

METAKECGALGGLFQAIVNDMKSSYPWEDFNSKATKLHSQRLRTTVLAAVAFLDAFQKV  
ADMATNTRGATRDIGSALTRMCMRHSIETKLRQFTNALLESINPLQERIEDWKKAANQ  
LDKDHAKYKRARHEIKKSSDTLKLQKKARKELLGKGDLQPQLDSALQDVNDMYLLEE  
TEKQAVRRALIEERGFCTFITFLQPVVNGELTMLGEITHLQGIIDDLVVLTAEPHKLPP  
ASEQVIKDLKGSYWSYQTPPSSPSSSSSRKSSMCSAPSSSSSAKGGGAPWPGGAQTYS

PSSTCRYRSLAQPATTTARLSSVSSHDSGFVSQDATYSKPPSPMPSDITSQKSSSSASSE  
ASETCQSVSECSPTS DWSKVGSEQPSGATLQRRKDRVELLRDTEPGPASGGTLGPSGE  
EAPRPRMSPATIAAKHGEEVSPAASDLAMVLTRGLSLEHQKSSRDSLQYSSGYSTQTTP  
SCSEDTIPSQGSDYDCYSVNGDADSEGPPEFDKSS TIPRNSNIAQNYRRLIQTKRPASTA  
GLPTAGLPTATGLPSGAPPGVATIR RTPSTKPTVRRALSSAGPIPIRPPIVPVKTPTVPD  
SPGYMGPTRAGSEECVFYTDE TASPLAPDLAKASPKRLSLPNTAWGSPSPEAAGYPGAGA  
EDEQQQLAANRHS LVEKLGELVAGAHALGEGQFPFPTALSATPTEETPTPPPAATSDPPA  
EDMLVAIRRGVRLRRTVTNDRSAPRIL

>sp|Q96NY9|MUS81\_HUMAN Crossover junction endonuclease MUS81 OS=Homo sapiens GN=MUS81  
PE=1 SV=3

MAAPVRLGRKRPLPACPNL FVRWLTEWRDEATRSRRRTRFVFQKALRSLRRYPLPLRSG  
KEAKILQHFGDGLCRMLDERLQRHRTSGGDHAPDSPSGENSPAPQGR LAEVQDSSMPVPA  
QPKAGSGSGYWPARHSGARVILLVLYREHLNPNGHHFLTKEELLQRCAQKSPRVAPGSAR  
PWPALRSLLHRNLVLRTHQPARYSLTPEGLELAQKLAESEGLSLLNVGIGPKEPPGEETA  
VPGAASAE LASEAGVQQPLELRPGEYRVLLCVDIGETRGGGHRPELLRELQRLHVHTTV  
RKLHVGD FVWVAQETNPRDPANPGELVLDHIVERKRLDDLCSSIIDGRFREQKFRLKRCG  
LERRVYLVEEHGSVHNLSLP ESTLLQAVTNTQVIDGFFVKRTADIKESAAYLALLTRGLQ  
RLYQGH TLRSRPWGTPGNPESGAMTSPNPLCSLLTFSDFNAGAIKNKAQSVREVFARQLM  
QVRGVS GEKAAALVDRYSTPASLLAAYDACATPKEQETLLSTIKCGRLQRNLGPALSRTL  
SQLYCSYGPLT

>sp|P84157|MXRA7\_HUMAN Matrix-remodeling-associated protein 7 OS=Homo sapiens GN=MXRA7  
PE=1 SV=1

MEAPAE LLAALPALATALALLLAWLLVRRGAAASPEPARAPPEPAPP AEATGAPAPSRPC  
APEPAASPAGPEEPGEPAGLGELGEPAGPEGE PGDPAAAPAEAEQAVEARQEEEQDL  
DGEKGPSS EGPEEEDGEGFSFKYSPGKLRGNQYKMMTKEELEEEQ RVQKEQLAAIFKLM  
KDNKETFGEMSDGDVQEQLRLYDM

>sp|P04198|MYCN\_HUMAN N-myc proto-oncogene protein OS=Homo sapiens GN=MYCN PE=1 SV=2

MPSCSTSTMPGMICKNPDL EFDLQPCFYPEDDDFYFGGPDSTPPGEDIWKKFELLPTTP  
LSPSRGF AEHSSEPPSWVTEMLLENELWGSPA EEDAFGLGGLGGLTPNPVILQDCMWSGF  
SAREKLERAVSEKLQHGRGPPTAGSTAQSPGAGAASPAGRGHGAAGAGRAGAALPAELA  
HPAAECVDP AVVFPFPV NKREPAPVPAAPASAPAAGPAVASGAGIAAPAGAPGVAPPRPG  
GRQTS GGDHKALSTSGEDT LSDSDD EDEDEEEEEEIDVVTVEKRRSSNTKAVTTFTIT  
VRPKNAALGPGR AQSS ELILKRCLPIHQHNYAAPSPYVESEDAPPQKKIKSEASPRPLK  
SVIPPKAKSLSPRNSD SEDSERRRNHNIL ERQRRNDLRSSFLTLRDHVP ELVKNEAKAV  
VILKKATEYVHSLQAEEHQLLLEKEKLQARQQQLLKKIEHARTC

>sp|POCAP1|MYZAP\_HUMAN Myocardial zonula adherens protein OS=Homo sapiens GN=MYZAP PE=1  
SV=1

MLRSTSTVTLLSGGAARTPGAPSR RANVCRLRLTVPPESPVPEQCEKKIERKEQLLDLSN  
GEPTRKLPQGVVYG VVRRSDQNQQKEMVVYGWSTS QLKEEMNYIKDVRATLEKVRKRMYG  
DYDEM RQKIRQLTQELSVSHAQQEYLENHIQTQSSALDRFNAMNSALASDSIGLQKTLVD  
VTLENSNIKDQIRNLQQTYEASMDKLREKQRQLEVAQVENQLLKMKESSQEANA EVMRE  
MTKKLYSQYEEKLQEEQRKHS AEKEALLEETNSFLKAIEEANKMQAAEISLEEKDQRIG  
ELDRLIERMEKERHQLQLLLEHETEMSGELTDS DKERYQQLEEASASLRERIRHLDDMV  
HCQQKKVKQMVEEIESLKKKLQQKQLLILQLLEKISFLEGENNELQSRLDYLTETQAKTE

VETREIGVGC DLLPSQTGR TREIVMP SRNYPYTRVLELTMKKT LT

>sp|Q5TBK1|N42L1\_HUMAN NEDD4-binding protein 2-like 1 OS=Homo sapiens GN=N4BP2L1 PE=2 SV=1

MEDSFLQSFGRSLQPPQQQQRQPPPPRGTPPRHSFRKHL YLLRGLPGSGKTTLAR  
QLQHDFPRALIFSTDDFFFREDGAYEFNPDFLEEAHEWNQKRARKAMRNGISPIIIDNTN  
LHAWEMKPYAVMALENNYEVIFREPDTRWKFNQELARRNIHGVSREKIHRMKERYEHDV  
TFHSVLHAEKPSRMNRNQDRNNALPSNNARYWNSYTEFPNRRAHGGFTNESSYHRRGGCH  
HGY

>sp|O15049|N4BP3\_HUMAN NEDD4-binding protein 3 OS=Homo sapiens GN=N4BP3 PE=1 SV=3

MATAPGPAGIAMGSVGSLLERQDFSPEELRAALAGSRGSRQPDGLLRKGLGQREFLSYLH  
LPKKDSKSTKNTKRAPRNEPADYATLYYREHSRAGDFSKTSLPERGRFDKCRIRPSVFKP  
TAGNGKGFLSMQSLASHKGQKLWRSNGSLHTLACHPPLSPGPRASQARAQLLHALSLDEG  
GPEPEPSLSDSSSGSFGRSPGTGPSFSSSLGHLNHLGGSLDRASQGPKEAGPPAVLSC  
LPEPPPPYEFSCSSAEEMGAVLPETCEELKRGLGDEGSPFTQVLEERQRLWLAELKRL  
YVERLHEVTQKAERSERNLQLQLFMAQQEQRRLRKELRAQQGLAPEPRAPGTLPEADPSA  
RPEEEARWEVCQKTAEISLLKQQLREAQELAQKLAEIFSLKTQLRGSRAQAQAQDAELV  
RLREAVRSLQEQAPREEAPGSCETDDCKSRGLLGEAGGSEARDSAEQLRAELLQERLRGQ  
EQALRFEQERRTWQEEKERVLR YQREIQGGYMDMYRRNQALEQELRALREPPTWSPRLE  
SSKI

>sp|Q9BSU3|NAA11\_HUMAN N-alpha-acetyltransferase 11 OS=Homo sapiens GN=NAA11 PE=1 SV=3

MNIRNAQPDDLMMQHCHNLLCLPENYQMKYYLYHGLSWPQLSYIAEDEDGKIVGYVLAKM  
EEEPDDVPHGHITSLAVKRSHRRLGLAQKLMQASRAMIENFNAKYVSLHVRKSNRPALH  
LYSNTLNFQISEVEPKYYADGEDAYAMKRDLSQMADELRRQMDLKKGGYVVLGSRENQET  
QGSTLSDSEEACQKNPATEESGSDSKEPKESVESTNVQDSSESSDSTS

>sp|Q9BXJ9|NAA15\_HUMAN N-alpha-acetyltransferase 15, NatA auxiliary subunit OS=Homo sapiens GN=NAA15 PE=1 SV=1

MPAVSLPPKENALFKRILRCYEHKQYRNGLKFCQILSNPKFAEHGETLAMKGLTLNCLG  
KKEEAYELVRRGLRNDLKSHVCWHVYGLLQRSDDKKYDEAIKCYRNALKWDKDNLQILRDL  
SLLQIQMRDLEGYRETRYQLLQLRPAQRASWIGYAIAYHLLLEDYEMAAKILEEFRKTQQT  
SPDKVDYEYSELLLYQNQVLREAGLYREALEHLCTYEKQICDKLAVEETKGELLLQLCRL  
EDAADVYRGLQERNPENWAYYKGLEKALKPANMLERLKIYEEAWTKYPRGLVPRRLPLNF  
LSGEKFKECLDKFLRMNFSKGCPPVFNTLRSLYKDKEKVAIEELVVG YETSLKSCRLFN  
PNDDGKEEPPTTLWVQYYLAQHYDKIGQPSIALEYINTAIESTPTLIELFLVKAKIYKH  
AGNIKEAARWMDEAQALDTADRFINSKCAKYMLKANLIKEAEEMCSKFTREGTSAVENLN  
EMQCMWFQTECAQAYKAMNKFGEALKKCHEIERHFIEITDDQDFHTYCMRKITLRSYVD  
LLKLEDVLRQHPFYFKAARIAIEIYLKLHDNPLTDENKEHEADTANMSDKELKKLRNKQR  
RAQKKAQIEEEKNAEKEKQQRNQKKKKDDDDDEEIGGPKEELIPEKLAKVETPLEEAIKF  
LTPLKNLVKNIETHLFAFEIYFRKEKFLMLQSVKRAFAIDSSHPWLHECMIRLFNTAV  
CESKDLSDTVRTLKQEMNRLFATNPKNFNETFLKRNSDSLPHRLSAAKMVYYLDPSSQ  
KRAIELATTLDESLTNRNLQTCMEVLEALYDGS LGDCKEAAEIYRANCHKLFPYALAFMP  
PGYEEDMKITVNGDSSAEAEELANEI

>sp|Q5VZE5|NAA35\_HUMAN N-alpha-acetyltransferase 35, NatC auxiliary subunit OS=Homo sapiens GN=NAA35 PE=1 SV=1

MVMKASVDDDDSGWELSMPEKMEKSNTNWDITQDFEEACRELKLGELLHDKLFGLF EAM

SAIEMMDPKMDAGMIGNQVNRKVLNFEQA IKDGTIKIKDLTLP ELIGIMDTFCCLITWL  
EGHSLAQTVFTCLYIHNPDI EDPA MKAFALGILKICDIAREKVNKAAVFEEEDFQSM TY  
GFKMANSVTDLRVTGMLKDVEDDMQRRVKSTRSRQGEERDPEVELEHQCLAVFSRVKFT  
RVLLTVLIAFTKKETS AVAE AQKLMVQAADLLSAIHNSLHHGIQAQNDTTKGDPHIMMGF  
EPLVNQRLLPPTFPRIYAKI IKREEMVNYFARLIDRIKTVCEVVNLTNLHCILDFCFE FSE  
QSPCVLSRSLLQTTF LVDNKKVFGTHLMQDMVKDALRSFVSPPVLSPKCYLYNNHQAKDC  
IDSFVTHCVRPFCSLIQIHGHNRARQRDKLGHILEEFATLQDEAEKVDAALHTMLLKQEP  
QRQH LACLGTWVLYHNL RIMI QYLLSGFELELYSMHEYYYIYWYLSEFLYAWLMSTLSRA  
DGSQMAEERIMEEQKGRSSSKTKKKKKVRPLSREITMSQAYQNM CAGMFKTMVAFDMDG  
KVRKPKFELDSEQVRYEHRFAPFNSVMT PPPVHYLQFKEMSDLNKYSPPPQSPELYVAAS  
KHFQQA KMILENIPNPDHEVNRILKVA KPNFVVMKLLAGGHKKESKVPPEFDFSAHKYFP  
VVKLV

>sp|Q02083|NAAA\_HUMAN N-acylethanolamine-hydrolyzing acid amidase OS=Homo sapiens GN=NAAA  
PE=1 SV=3

MRTADREARPLSLLLLLLAGAGLSAASPPAAPRFNVS LDSVP ELRWLPVLRHYDLDLV  
RAAMAQVIGDRVPKWVHVLIGKV VLELERFLPQPFTGEIRGMCDFMNL SLADCLLVN LAY  
ESSVFCTSI VAQDSRGHIYHGRNLDY PFGNVL RKLTVDVQFLKNGQIAFTGTTFIGYVGL  
WTGQSPHKFTVSGDERDKGWWENAI AALFRRHIPVSWLIRATLSESENF EA AVGKLAKT  
PLIADVYYIVGGTSPREGVVITRNRDGPADIWPLDPLNGAWFRVETNYDHWKPAPKEDDR  
RTSAIKALNATGQANLSLEALFQILSVVPVYNNFTIYTTVMSAGSPDKYMTRIRNPSRK

>sp|Q9UPR5|NAC2\_HUMAN Sodium/calcium exchanger 2 OS=Homo sapiens GN=SLC8A2 PE=2 SV=2

MAPLALVGVTLLLAAPPCGAATPTPSLPPPPANDSDTSTGGCQGSYRCQPGVLLPVWEP  
DDPSLGDKAARAVVYFVAMVYMF LGVSI IADR FMAAIEVITSKEKEITITKANGETSVGT  
VRIWNETVSNLTLMALGSSAPEILLSVIEVCGHNFQAGELGPGTIVGSAAFNMFVVI AVC  
IYVIPAGESRKIKHLRVFFVTASWSIFAYVWLYLILAVFSPGVVQVWEALLTLVFFPVCV  
VFAWMADKRLLFYKYVYKRYRTDPRSGIIIGAEGDPPKSIELDGT FVGAEAPGELGGLGP  
GPAEARELDASRREVIQILKDLKQKHPDKDLEQLVGIANYYALLHQKSR AFYRIQATRL  
MTGAGNVLRRHAADASRRAPAEGAGEDDDGASRIFFEPSLYHCL ENCGSVLLSVTCQG  
GEGNSTFYVDYRTEDGSAKAGSDYEYSEGTLVFKPGETQKELRIGI IDDDIFEDEHFFV  
RLNLNRVGDAQGMFEPDGGGRPKGRLVAPLLATVTILDDDHAGIFS FQDRLLHVSECMGT  
VDVRVVRSSGARGTVRLPYRTVDGTARGGVHYEDACGELEFGDDETMKTLQVKIVDDEE  
YEKKDNFFIELGQPWLKRGISALLLNQGDGRKLTAE EEEARRIAEMGKPV LGENCRLE  
VII EESYDFKNTVDKLIKKTNLALVIGTHSWREQFLEAITVSAGDEEEEDGSREERLPS  
CFDYVMHFLT VFWKVL FACVPTEYCHGWACFGVSILVIGLLTALIGDLASHFGCTVGLK  
DSVNAVVFVALGTSIPDTFASKVAALQDQCADASIGNVTGSNAVNVFLGLGVAWSVA AVY  
WAVQGRPF EVRTGT LAFSVTLFTVFAFVGIAVLLYRRRPHIGGELGGPRGPKLATTALFL  
GLWLLYILFASLEAYCHIRGF

>sp|O15069|NACAD\_HUMAN NAC-alpha domain-containing protein 1 OS=Homo sapiens GN=NACAD  
PE=1 SV=3

MPGEAARAELL LPEADRP GPRTDLSCDAAAATTILGGDRREPCALTPGPSHLALTFLPSK  
PGARPQPEGASWDAGPGGAPSAWADPGEGGSPMMLPEGLSSQALSTEAPLPATLEPRIV  
MGEETCQALLSPRAARTALRDQEGGHASPDPPPELCSQGDLSVPSPPPDPSFFTPTPSTP  
TKTTYALLPACPHGDARDSEAE LRDELDSPPASPSGSYITADGDSWASSPSCSLSLLA  
PAEGLDFPSGWGLSPQGSMDERELHPAGTPEPPSSSESSLADSSSSWGQEGHFFDLDFL



ANDPMIPAAALLPFQGSLLIFQVEAVEVTPLSPEEEEEEAVADPDPGDLAGEGEEDSTSAS  
FLQSLSDLSITEGMDEAFARDDTSAASSSDSDSASYAEADDERLYSGEPHAQATLLQDSV  
QKTEESGGGAKGLQAQDGTVSWAVEAAPQTSDRGAYLSQRQELISEVTEEGLALGQEST  
ATVTPHTLQVAPGLQVEVATRVTPQAGEEETDSTAGQESAAMAMPQPSQEGISEILGQES  
VTAEKLPPTQEETSLTCLPDSQNLKEEGGLDLPSGRKPVAAATIVPRQAKEDLTLPQDS  
AMTPPLPLQDIDLSSAPKPVAAATIVSQQAE EGLTLPQDSVMTPLPLQDTELSSAPKPV  
AAATLVSQQAE EGLTLPQDSAMTPPLPLQDIDLSSAPKPVAAATLVSQQAE EGLTLPQDS  
AMTPPLPLQDIDLSSAPKPVAAATLVSQQAE EGLTLPQDSAMTPPLPLQDIDLSSAPKPV  
AAATIVSQQAE EGLTLPQDSAMTPPLPLQDIDLSSAPKPVAAATIVSQQAE EGLTLPQDS  
AMTPPLPLQDIDLSSAPKPVAAATPVSQQAE EGLTLPQDSAMTPPLPLQDIDLSSAPKPV  
AAATPVSQQAE EGLTLPQDSAMTAPLPLQDTGPTSGPEPLAVATPQTLQAEAGCAPGTEP  
VATMAQQEVGEALGPRPAPEEKNAALPTVPEPAALDQVQQDDPQPAEAGTPWAAQEDAD  
STLGMEALSLPEPASGAGEEIAEALSRPGREACLEARAHTGDGAKPDSQKETLEVENQQ  
EGGLKPLAQEHGPRSA LGGAREVPDAPPAACPEVSQARLLSPAREERGLSGKSTPEPTLP  
SAVATEASLDSCPESSVGAVSSLDRGCPDAPAPTSAPTSQQPEPVLGLGSVEQPHEVPSV  
LGTPLLQPPENLAKGQSTPVDRPLGPDPSAPGTLAGAALPPLEPPAPCLCQDPQEDSVE  
DEEPPGSLGLPPPQAGVQPA AAAVSGTTQPLGTGPRVSLSPHSPLSPKVASMDAKDLAL  
QILPPCQVPPSGPQSPAGPQGLSAPEQQEDEDLSLEEDSPRALGSGQHSDSHGESSAELD  
EQDILAPQTVQCPAQAPAGGSEETIAKAKQSRSEKKARKAMSKLGLRQIQGVTRITIQKS  
KNILFVIAKPDVFKSPASDTYVVFGEAKIEDLSQQVHKAAA EKFKVPSEPSALVPESAPR  
PRVRLECKEEEEEEEEVEAGLELRDIELVMAQANVSRAKAVRALRDNHSDIVNAIMEL  
TM

>sp|Q7Z406|MYH14\_HUMAN Myosin-14 OS=Homo sapiens GN=MYH14 PE=1 SV=2

MAAVTMSVPGRKAPPRPGVP EAAQPF LFTPRGPSAGGGPGSGTSPQVEWTARRLVWVPS  
ELHGF EAAAALRDEGEEEA EVELAESGRRLRLPRDQIQRMNPPKFSKAEDMAELTCLNEAS  
VLHNL RERYYSGLIYTYSGLFCVVINPYKQLPIYTEAIVEMYRGKKRHEVPPHVYAVTEG  
AYRSM LQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSPKGRKEPGVP GELERQLLQ  
ANPILEAFGNKTVKNDNSSRFGKFIRINF DVAGYIVGANIETYLLEKSRAIRQAKDECS  
FHIFYQLLGAGEQLKADLLEPCSHYRFLTNGPSSSPGQERELFQETLESRLVLGFSHE  
EII SMLRMVSAVLQFGNIALKRERNTDQATMPDN TAAQKLCRLGLGVTD FSRALLTPRI  
KVGRDYVQKAQTKEQADFALEALAKATYERLFRWLVLRLNRALDRSPRQGASFLGILDIA  
GFEIFQLNSFEQLCINYTNEKLQQLFNHTMFVLEQE EYQREGIPWTF LDFGLDLQPCIDL  
IERPANPPGLLALLDEECWF PKATDKSFVEKVAQEQQGHPKFQRPRHLRDQADFSVLHYA  
GKVDYKAN EWLKMNMDPLNDNVAALLHQSTDRLTAEIWKDVEGIVGLEQVSSSLGDGPPGG  
RPRRGMFRTVGQLYKESLSRLMATLSNTNPSFVRCIVPNHEKRAGKLEPRLVLDQLRCNG  
VLEGIRICRQGFPNRILFQEFRQRYEILTPNAIPKGFMDGKQACEKMIQALELDPNLYRV  
GQSKIFFRAGVLAQLEEERDLKVTDIIVSFQAAARGYLARRAFQKRQQQSSALRVMQRNC  
AAYLKL RHWWRLFTKVKPLLQVTRQDEV LQARAQELQKVQELQQQSAREVGELQGRVA  
QLEEERARLAEQLRAEAE LCAEAEETRGRLAARKQELELVVSELEARV EEEEC SRQMOT  
EKKRLQQHIQE LEAHLEAE EGARQKLQLEKVTTEAKMKKFEEDLLLLLEDQNSKLSKERKL  
LEDRLAEFSSQA AEEEEKVKSLNKLRLKYEATIADMEDRLRKEEKGRQELEKLRRLDGE  
SSELQEQMVEQQQRAEELRAQLGRKEEELQAALARA EDEGGARAQLLKS LREAQAALAEA  
QEDLESERVARTKAEKQRRDLGEELEALRGELED TLDSTNAQQELRSKREQEVT ELKKTL  
EEETRIHEAAVQELRQRHGQALGELAEQLEQARRGKGAW EKTRLALEAEVSELRAELSSL

QTARQEGEQRRRRLELQLQEVQGRAGDGERARAEAAEKLQRAQAELENVSGALNEAESKT  
IRLSKELSSTEAQLHDAQELLQEETRAKLALGSRVRAMEAEAAGLREQLEEEAAARERAG  
RELQTAQAQLSEWRRRRQEEEAGALEAGEEARRRAAREAEALTQRLAEKTETVDRLERGRR  
RLQQELDDATMDLEQQRQLVSTLEKKQRKFDQLLAEEKA AVLRAVEERERAEAEGREREA  
RALSLTRALEEEQEAREELERQNRALRAELEALLSSKDDVGKSVHELERACRVAEQAAND  
LRAQVTELEDELTAEDAKLRLEVTVQALKTQHERDLQGRDEAGEERRRQLAKQLRDAEV  
ERDEERKQRTLAVAARKKLEGELEELKAQMASAGQGKEEAVKQLRKMQAQMKELWREVEE  
TRTSREEIFSQNRESEKRLKGLEAEVLRLEELAASDRARRQAQQDRDEMADEVANGNLS  
KAAILEEKRQLEGRLGQLEEEEEEQSNSELLNDRYRKLLQVESLTTELSAERSFSAKA  
ESGRQQLERQIQELRGRLGEEDAGARARHKMTIAALESKLAQAEEQLEQETRERILSGKL  
VRRAEKRLKEVVLQVEEERRVADQLRDQLEKGNLRVKQLKRQLEEAEEEEASRAQAGRRRL  
QRELEDVTESAESMNREVTTLNRNLRGGLTFTTRTVRQVFRLEEGVASDEEAEEAQP GS  
GPSPEPEGSPPAHPQ

>sp|P12883|MYH7\_HUMAN Myosin-7 OS=Homo sapiens GN=MYH7 PE=1 SV=5

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AETGYGKTVTVKEDQVMQQNPPKFDKIEDMAMLTFLHEPAVLNLDKRYGSMIYTYSGL  
FCVTVPNPKWLPVYTPEVVAAYRGKKRSEAPPHIFSISDNAYQYMLTDRENQSILITGES  
GAGKTVNTRKVIQYFAVIAAIGDRSKKQSPGKGTLEDQIIQANPALEAFGNAKTVRNDN  
SSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKAERDYHIFYQILSNKKPELLDM  
LLITNPNPYDYAFISQGETTVASIDDAEELMATDNADFVLGFTSEEKNSMYKLTGAIMHFG  
NMKFKLKQREEQAEPDGTEEADKSAYLMGLNSADLLKGLCHPRVKVGNEYVTKGQNVQQV  
IYATGALAKAVYERMFNWMVTRINATLETKQPRQYFIGVLDIAGFEIFDFNSFEQLCINF  
TNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIDLIEKPMGIMSILEEECMF  
PKATDMTFKAKLFDNHLGKSANFQKPRNIKGPKEAHFSLIHYAGIVDYNIIIGWLQKNKDP  
LNETVVGLYQKSSLKLLSTLFANYAGADAPIEKGGKAKKGSSFTVSALHRENLNKLMT  
NLRSTHPHFVRCIIPNETKSPGVMNPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFRQ  
RYRIILNPAAIPEGQFIDSRKGAEKLLSSLDIDHNQYKFGHTKVFFKAGLLGLEEMRDER  
LSRIITRIQAQSRGVLARMEYKKLLERRDSLLVIQWNIRAFMGVKNWPWMKLYFKIKPLL  
KSAEREKEMASMKEEFTRLKEALEKSEARRKEEEKMVSLQEKNDLQLQVQAEQDNLAD  
AEERCDQLIKNKIQLEAKVKEMNERLEDEEEMNAELTAKKRKLEDECSELKRDIDDELT  
LAKVEKEKHATENKVKNLTEAMGLDEIIAKLTKEKKALQEAHQALDDLQAEEDKVNTL  
TKAKVKLEQQVDDLEGSLEQEKVRMDLERAKRKLEGDCLKTQESIMDLENDKQQLDERL  
KKKDFELNALNARIEDEQALGSQKQKLELQARIEELEEELAEARTARAKVEKLRSDLS  
RELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSV  
AELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKMCRTLEDQMNEHR  
SKAEETQRSVNDLTSQRAKLQTENGELSRQLDEKEALISQLTRGKLYTQQLDLKRQLE  
EEVKAKNALAHALQSARHDCDLLREQYEEETEAKAELQRVLSKANSEVAQWRTKYETDAI  
QRTEELEEAKKKLAQRLQEAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAA  
ALDKKQRNFDKILAEWKQKYEESQSELESSQKEARSLSTELFKLKNAYEESLEHLETFR  
ENKNLQEEISDLTEQLGSSGKTIHELEKVRKQLEAEKMELQSALEEAEEASLEHEEGKILR  
AQLEFNQIKAEIERKLAEKDEEMEQAKRNHLRVVDSLQTSLSDAETRSRNEALRVKKKMEG  
DLNEMEIQLSHANRMAAEAQKQVKSLSLLKDTQIQLD DAVRANDLKENIAIVERNNL  
LQAELEELRAVVEQTERSRLAEQELIETSERVQLLHSQNTSLINQKKKMDADLSQLQTE  
VEEAVQECRNAEEKAKKAITDAAMMAEELKKEQD TSAHLERMKNMEQTIKDLQHRLDEA

EQIALKGGKKQLQKLEARVRELENELEAEQKRNAESVKGMRKSERRIKELTYQTEEDRKN  
LLRLQDLVDKLQKVKAYKRQAEAEQANTNLSKFRKVQHELDEAEERADIAESQVNKL  
RAKSRDIGTKGLNEE

>sp|P35579|MYH9\_HUMAN Myosin-9 OS=Homo sapiens GN=MYH9 PE=1 SV=4

MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVE  
NGKKVKVNKDDIQKMPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVV  
INPYKNLPIYSEEIVEMYKGGKRHEMPPHIYAITDTAYRSMMQDREDQSILCTGESGAGK  
TENTKKVIQYLAYVASSHKSCKDQGELERQLLQANPILEAFGNAKTVKNDNSSRFGKFIR  
INFVNGYIVGANIETYLLEKSRAIRQAKEERTFHFIFYLLSGAGEHLKTDLLEPYNKY  
RFLSNGHVTIPGQQDKDMFQETMEAMRINGIPEEEQMGLLRVISGVLQLGNIVFKKERNT  
DQASMPDNTAAQKVSHLLGINVTDFTRGILTPRIKVGRDYYQKAQTKEQADFAIEALAKA  
TYERMFRLVLRINKALDKTKRQGASFIGILDIAGFEIFDLNSFEQLCINYTNEKLQQLF  
NHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGILALLDEECWFPKATDK  
SFVEKVMQEQGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLL  
HQSSDKFVSELWKVDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMAT  
LRNTNPNFVRCIIPNHEKKAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRVVFQEFRQR  
YEILTPNSIPKGFMDGKQACVLMIKALELDSNLYRIGQSKVFFRAGVLAHLEERDLKIT  
DVIIGFQACCRGYLARKAFARQQQLTAMKVLQRNCAAYLKL RNWQWWRLFTKVKPLLQV  
SRQEEEMAKEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLQEQLQAETELCAEAE  
ELRRLTAKKQEEIICHDLARVEEEERCQHLQAEKKMQQNIQELEEQLLEEEESARQ  
KLQLEKVTTEAKLKKLEEQIILEDQNCCLAKEKKLEDRIAFTTNLTETEEKSKSLAK  
LKNKHEAMITDLEERLRREEKQRQLEKTRRKLEGDSTDLSQIAELQAQIAELKMLAK  
KEEELQAALARVEEEAAQNMALKKIRELESQISELQEDLESERASRNKAEKQKRD LGEE  
LEALKTELEDTLSTAAQQLRSKREQEVNILKKTLEEEAKTHEAQIQEMRQKHSQAVEE  
LAEQLEQTKRVKANLEKAKQTLNERGELANEVKVLLQGKGDEHKKRKKVEAQLQELQVK  
FNEGERVTELADKVTKLQVELDNVTGLLSQSDSKSSKLTKDFSALQS LQDTQELLQEE  
NRQKLSLSTKLKQVEDEKNSFREQLLEEEEAHNLEKQIATLHAQVADMKKKMEDSVGCL  
ETAEEVKRKLQKDEGLSQRHEEKVAAYDKLEKTKTRLQQLDLDLVDLHQRQSACNLE  
KKQKFDQLLAEKTI SAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNK  
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEEELEDELQATEDAKLRLEV  
NLQAMKAQFERDLQGRDEQSEEKKQLVRQVREMAELEDERKQRSMVAARKKLEMDLK  
DLEAHIDSANKNRDEAIKQLRKLQAQMKDCMRELD DTRASREEILAQAKENEKKLSMEA  
EMIQLQEELAAAERAKRQAQQRDELADEIANSSGKGALALEEKRRLEARIAQLEEELEE  
EQGNTLINDRLKKANLQIDQINTDLNLSHAQKNENARQQLERQNKELKVKLQEMEGT  
VSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRTEKKLDVLLQVDDERRNAEQ  
YKDQADKASTRLKQLKRQLEEAEEEAQRANASRRKLQRELEDATETADAMNREVSSLKNK  
LRRGDLPFVVP RRMARKGAGDGSDEEVDGKADGAEAKPAE

>sp|P60201|MYPR\_HUMAN Myelin proteolipid protein OS=Homo sapiens GN=PLP1 PE=1 SV=2

MGLLECCARCLVGAPFASLVATGLCFGVALFCGCGHEALTGTEKLIETYFSKNYQDYEY  
LINVIHAFQYVIYGTASFFFLYGALLAEGFYTTGAVRQIFGDYKTTICGGLSATVTGG  
QKGRGSRGQHQAHS LERVCHCLGKWLGHDPKFVGITYALT VVWLLVFACSAVPVYIYFNT  
WTTCQSIAFPSKTSASIGSLCADARMYGVL PWNAPPGKVCGSNLLSICKTAEFQMTFHLF  
IAAFVGAAATLVSLTFMIAATYNFAVLKLMGRGTFK

>sp|O60237|MYPT2\_HUMAN Protein phosphatase 1 regulatory subunit 12B OS=Homo sapiens  
GN=PPP1R12B PE=1 SV=2

MAELEHLGGKRAESARMRAEQLRRWRGSLTEQEPAERRGAGRQPLTRRGSPRVRFEDGA  
VFLAACSSGDTDEVKLLARGADINTVNDGLTALHQACIDENLDMVKFLVENRANVNQQ  
DNEGWTPLHAAASCGYLNIAEYFINHGASVGIVNSEGEVPSDLAEEPAMKDLLLEQVKKQ  
GVDLEQSRKEEQMLQDARQWLNSGKIEDVRQARSGATALHVAAAGYSEVLRLLIQAG  
YELNVQDYDGWTPLHAAAHWGVEACSLAEALCDMDIRNKLGGQTPFDVADEGLVEHLEL  
LQKKQNVLRSEKETRNKLIESDLNSKIQSGFFKNKEKMLYEEETPKSQEMEENKESSS  
SSEEEGEDEASESETEKEADKKPEAFVNHSNSESKSSITEQIPAPAQNTFSASSARRFS  
SGLFNKPEEPKDESPSSWRGLRKTGSHNMLSEVANSREPIRDRGSSIRSSSSPRISAL  
LDNKDERENKSYISSLAPRKLNSTSDIEEKENRESAVNLVRSGSYTRQLWRDEAKGNEI  
PQTIAPSTYVSTYLKRTPHKSQADTTAEKTADNVSSSTPLCVITNRPLPSTANGVTATPV  
LSITGTDSSVEAREKRRSYLTPVRDEEAESLRKARSQARQTRRSTQGVTLTDLQEAERT  
FSRSRAERQAQEQPREKPTDTEGLEGSPEKHEPSAVPATEAGEGQQPWGRSLDEEPICHR  
LRCPAQPKPTTPASPSTSRPSLYTSSHLLWTNRFSVPDESSESTTTNTTAKEMDKNEN  
EEADLDEQSSKRLSIRERRRPKERRRGTGINFWTKDEDETGDSEEVKETWHERLSRLESG  
GSNPTTSDSYGDRASARREAREARLATLSRVEEDSNRDYKKLYESALTENQKLKTKL  
QEAQLELADIKSKLEKVAQQKQEKTSDRSSVLEMEKRERRALERKMSEMEEMKVLTELK  
SDNQRLKDENGALIRVISKLSK

>sp|Q9UL68|MYT1L\_HUMAN Myelin transcription factor 1-like protein OS=Homo sapiens  
GN=MYT1L PE=2 SV=3

MEVDTEEKRRHTRSKGVRVPVEPAIQELFSCPTPGCDGSGHVSGKYARHRSVYGCPLAKK  
RKTQDKQPQEPAPKRKPFPAVKADSSSVDECDDSDGTEDMDEKEEDEGEYSEDNDEPGDE  
DEEDEEGDREEEEEIEEDEDDEDEDGEDVEDEEEEEEEEEEEEEENEDHQMCHNTRI  
MQDTEKDDNNNDEYDNYDELVAKSLLNLGKIAEDAAAYRARTESMNSNTSNSLEDDSDKN  
ENLGRKSELSDLSDSVVRETVDLSKLLAQGHGVVLSNMNDRNYADSMSQQDSRNMNYV  
MLGKPMNGLMEKMVEESDEEVLSSLECLRNQCFDLARKLSETNPQERNPQQNMNIRQH  
VRPEEDFPGRTPDRNYSMLNLMRLEEQLSPRSRVFASCAKEDGCHERDDTTSVNSDRS  
EEVFDMTKGNLTLEKAIATERAKAMREKMAMEAGRDNMRSYEDQSPRQLPGEDRKP  
KSSDSHVKKPYGKDPSTRTEKKESKCPTPGCDGTGHVTGLYPHHRSLSGCPHKDRVPPEI  
LAMHESVLKCPTPGCTGRGHVNSNRNSHRSLSGCPIAAAEKLAKAQEKHQSCDVSKSSQA  
SDRVL RPMCFVKQLEIPQYGYRNNVPTTTPRSNLAKELEKYSKTSFEYNSYDNHTYGKRA  
IAPKVQTRDISPKGYDDAKRYCKDPSPSSSTSSYAPSSSNLSCGGGSSASSTCSKSSF  
DYTHDMEAAHMAATAILNLSTCREMPQNLSTKPQDLCA TRNPDMEVDENGTLDSL MNKQ  
RPRDSCCPILTPLEPMSPQQQAVMNNRCFQLGEGDCWDL PVDYTKMKPRRIDEDESKDIT  
PEDLDPFQEALEERRY PGEVTIPSPKPKYPQCKESKKDLITLSGCPLADKSIRSMLATSS  
QELKCPTPGCDGSGHITGN YASHRSLSGCPRAKKS GIRIAQSKEDKEDQEP IRCVPVPGCD  
GQG HITGKYASHRSASGCPLAAKRQKDG YLNGSQFSWKS VKTEGMS CPTPGCDGSGHVSG  
SFLTHRSLSGCPRATSAMKKAKLSGEQMLTIKQRASNGIENDEEIKQLDEEIKELNESNS  
QMEADMIKLRQTITMESNLK TIEENKVIEQQNESLLHELANLSQSLIHSLANIQLPHM  
DPINEQNFDAYVTTLT EMTYNQDRYQSPENKALLENIKQAVRGIQV

>sp|Q9BZM4|N2DL3\_HUMAN NKG2D ligand 3 OS=Homo sapiens GN=ULBP3 PE=1 SV=1  
MAAAASPAILPRLAILPYLLFDWSGTGRADAHSLWYNFTIIHLPRHGQQWCEVQSQVDQK  
NFLSYDCGSDKVL SMGHLEEQLYATDAWGKQLEMLREVGGRLRLELADTELEDFTPSGPL

TLQVRMSCECEADGYIRGSWQFSFDGRKFLLFDSNNRKWTVVHAGARRMKEKWEKDSGLT  
TFFKMVSMRDCKSWLRDFLMHRKKRLEPTAPPTMAPGLAQPKAIATTLSPWSFLIILCFI  
LPGI

>sp|P61599|NAA20\_HUMAN N-alpha-acetyltransferase 20 OS=Homo sapiens GN=NAA20 PE=1 SV=1  
MTTLRAFTCDDLFRFNNINLDPLTETYGIPFYLYLAHWPEYFIVAEAPGGELMGYIMGK  
AEGSVAREEWHGHVTALVAPEFRRLGLAAKLMELLEESERKGGFFVDLFVRVSNQVAV  
NMYKQLGYSVYRTVIEYYSASNGEPDEDAYDMRKALSRDTEKKSIIPLPHPVRPEDIE

>sp|Q147X3|NAA30\_HUMAN N-alpha-acetyltransferase 30 OS=Homo sapiens GN=NAA30 PE=1 SV=1  
MAEVPPGPSSLLPPPAPPAPAAVEPRCPFPAGAALACCSEDEEDDEEHEGGSRSPAGGE  
SATVAAKGHPCLRCPQPPEQQQLNGLISPELRHLRAAASLSKSVLSVAEVAATTATPDG  
GPRATATKGAGVHSGERPPHSLSSNARTAVPSPVEAAAASDPAAARGLAEGTEQEEEEEE  
DEQVRLSSSLTADCSLRSPSGREVEPGEDRTIRYVRYESELQMPDIMRLITKDLSEPYS  
IYTRYFIHNWPQLCFLAMVGEECVGAIVCKLDMHKKMFRRGYIAMLAVDSKYRRNGIGT  
NLVKKAIYAMVEGDCDEVVLETEITNKSALKLYENLGFVRDKRLFRYYLNGVDALRLKLW  
LR

>sp|Q13765|NACA\_HUMAN Nascent polypeptide-associated complex subunit alpha OS=Homo sapiens GN=NACA PE=1 SV=1  
MPGEATETVPATEQELPQPQAETGSGTESDSDESVPLEEQDSTQATTQQAQLAAAAEID  
EEPVS KAKQSRSEKKARKAMSKLGLRQVTGVTRVTIRKSKNILFVITKPDVYKSPASDTY  
IVFGEAKIEDLSQQAQLAAAEKFKVQGEAVSNIQENTQTPTVQEESEEEVDETGEVEVKD  
IELVMSQANVSRAKAVRALKNNSNDIVNAIMELTM

>sp|Q6NSW7|NANP8\_HUMAN Putative homeobox protein NANOGP8 OS=Homo sapiens GN=NANOGP8 PE=5 SV=1  
MSVDPACPQSLPCFEASDCKESSPMPVICGPEENYPSLQMSSAEMPHTETVSPLPSSMDL  
LIQDSPDSSTSPKKGQPTSAENSVAKKEDKVPVKKQKTRTVFSSTQLCVLNDRFQRQKYL  
SLQQMQELSNILNLSYKQVKTWQFQNMKSKRWQKNNWPKNSSNGVTQKASAPTYPSTLYSS  
YHQGCLVNPTGNLPMWSNQTWNNSTWSNQTQNIQSWSNHSWNTQTWCTQSWNNQAWNSPF  
YNCGEESLQSCMHFQPNSPASDLEAALEAAGEGLNVIQQTTRYFSTPQTMDLFLNYSNM  
QPEDV

>sp|Q6BCY4|NB5R2\_HUMAN NADH-cytochrome b5 reductase 2 OS=Homo sapiens GN=CYB5R2 PE=1 SV=1  
MNSRRREPITLQDPEAKYPLPLIEKEKISHNTRRFRFGLPSPDHVLGLPVGNYVQLLAKI  
DNELVVRAYTPVSSDDDRGFVDLI IKIYFKNVHPQYPEGGKMTQYLENMKIGETIFFRGP  
RGRLFYHGPGLGIRPDQTSEPKKTLADHLGMIAGGTGITPMLQLIRHITKDPDRTRMS  
LIFANQTEEDILVRKELEEIARTHDPQFNLYWTLDRPPIGWKYSSGFTADMIKEHLPPP  
AKSTLILVCGPPPLIQTAAHPNLEKLGYTQDMIFTY

>sp|Q7L1T6|NB5R4\_HUMAN Cytochrome b5 reductase 4 OS=Homo sapiens GN=CYB5R4 PE=1 SV=1  
MLNVPSQSFPAPRSQQRVASGGRSKVPLKQGRSLMDWIRLTKSGKDLTGLKGRLLIEVTEE  
ELKKNKDDCWICIRGFVYNVSPYMEYHPGGEDELMRAAGSDGTELFQVHRVWNYESM  
LKECLVGRMAIKPAVLKDYREEKKVLNGMLPKSQVTDTLAKEGPSYPSYDWFQTDLSVT  
IAIYTKQKDINLDSIIVDHQNSFRAETIIKDCLYLIIHIGLSHEVQEDFSVRVSVESVGKI  
EIVLQKKENTSWDFLGHPLKNHNSLI PRKDTGLYYRKCLISKEDVTHDTRLFCLMLPPS  
THLQVPIGQHVYLKLPITGTEIVKPYTPVSGSLLSEFKEPVLPNNKYIYFLIKIYPTGLF  
TPELDRLQIGDFVSVSSPEGNFKISKFQELEDLFLAAGTGFTPMVKILNYALTDIPSLR  
KVKLMFFNKTEDDIIWRSQLEKLAFKDKRLDVEFVLSAPISEWNGKQGHISPALLSEFLK

RNLDSKSVLVCICGVPFTEQGVRLHDLNFSKNEIHSFTA

>sp|A6PVI3|NCB2L\_HUMAN Nuclear cap-binding protein subunit 2-like OS=Homo sapiens  
GN=NCBP2L PE=3 SV=1

MSKDLKILCKDPALELSYRDHQFSGRKFQKEKLLKESSTLNMGNLSFYTTEEKIHELFS  
RSDIRNIFMGLDKIKKTACGFCFVECHNRADAENAMRFLTGTCLDEWICTDWDVGFREG  
QQYGRGKSGGQVRDEFREDFHSGRGGFGRQTQI

>sp|Q09161|NCBP1\_HUMAN Nuclear cap-binding protein subunit 1 OS=Homo sapiens GN=NCBP1  
PE=1 SV=1

MSRRRHSDENDGGQPHKRRKTSANETEDHLESLICKVGEKSACSLESNLEGLAGVLEAD  
LPNYKSKILRLLCTVARLLPEKLTITYTTLVGLLNARNYNFGGEFVEAMIRQLKESLKANN  
YNEAVLYVRFLSDLVNCHVIAAPSMVAMFENFVSVTQEEDVPQVRRDWVYVYAFSSLPWV  
GKELYEKDAEMDRIFANTESYLKRRQKTHVPMQLQVWTADKPHPQEEYLDCLWAQIQKLK  
KDRWQERHILRPYLAFDSILCEALQHNLPPFTPPPHTEDSVYPMPRVIFRMFDYTDDPEG  
PVMPGSHSVERFVIEENLHCIKSHWKERKTCQAQLVSYPGKNKIPLNYHIVEVIFAELF  
QLPAPPHIDVMYTTLLIELCKLQPGSLPQVLAQATEMLYMRDLMNTTCVDRFINWFSHH  
LSNFQFRWSWEDWSDCLSQDPESPKPKFVREVLEKCMRLSYHQRILDIVPPTFSALCPAN  
PTCIYKYGDESSNSLPGHSVALCLAVAFKSKATNDEIFSILKDVNPNQDDDDDEGFSFN  
PLKIEVFVQTLHLAAKSFHSFSAKAFHEVFKTLAESDEGKLHVLVRVMFEVWRNHPQM  
IAVLVDMIRTQIVDCAAVANWIFSSLSRDFTRLFVWEILHSTIRKMKNHVLKIQKELE  
EAKEKLARQHKRRSDDDDRSSDRKDGVLLEEQIERLQEKVESASQEQKNLFLVIFQRFIMI  
LTEHLVRCETDGTSLTPWYKNCIERLQQIFLQHHQIIQQYMTLENLLFTAELDPHILA  
VFQQFCALQA

>sp|A6NI72|NCF1B\_HUMAN Putative neutrophil cytosol factor 1B OS=Homo sapiens GN=NCF1B  
PE=5 SV=2

MGDTFIRHIALLGFEKRFVPSQHYVRYMFLVKWQDLSEKVYRRFTEIYEFHKTLEKEMFP  
IEAGAINPENRIIPHLPAKWFQDQRAAENHQGTLEYCGTLMSLPTKISRCPHLLDFFK  
VRPDDLKLPDNTQTKKPETYLMPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMALST  
GDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLDSPDETEPEPNYAGEPYVAIKAYTA  
VEGDEVSLLEGEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQKSGQDVSAQRQIKRGAP  
PRRSSIRNVHSIHQSRKRLSQDAYRRNSVRFLQQRQRQARPGPQSPGSPLEERQTQRS  
KPQPAVPPRPSADLILNRCSESTRKCLASAV

>sp|Q9UI40|NCKX2\_HUMAN Sodium/potassium/calcium exchanger 2 OS=Homo sapiens GN=SLC24A2  
PE=1 SV=1

MDLQQSTTITSLEKWCLDESLGCRRHYSVKKKLLKIRVLGLFMGLVAISTVSFSISAFS  
ETDTQSTGEASVSGPRVAQGYHQRTLLDLNDKILDYTPQPPLSKEGESENSTDHAQGDY  
PKDIFSLEERRKGAILHVIGMIYMFIALAIVCDEFFVPSLTVITEKLGISDDVAGATFM  
AAGGSAPELFTSLIGVFIASNSVGIGTIVGSAVNILFVIGMCALFSREILNLTWWPLFR  
DVSFYIVDLIMLIIFFLDNVIMWWESLLLLTAYFCYVVFMKFNVQVEKWVKQMINRNKVV  
KVTAPAEQAKPSAARDKDEPTLPAPKRLQRGGSASLHNSLMRNSIFQLMIHTLDPLAEE  
LGSYGKLYYDTMTEEGRFREKASILHKIAKKKCHVDENERQNGAANHVEKIELPNSTST  
DVEMTPSSDASEPVQNGNSHNEGAEQAQTADEEEDQPLSLAWPSETRKQVTFLIVFPIV  
FPLWITLPDVRKPSSRKFFPITFFGSITWIAVFSYLMVWWAHQVGETIGISEEIMGLTIL  
AAGTSIPDLITSVIVARKGLGDMVSSSVGSNIFDITVGLPLPWLLYTVIHRFQPVAVSS  
NGLFCAIVLLFIMLLFVILSIALCKWRMNKILGFIMFGLYFVFLVSVLLEDRIITCPVS

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>sp|Q9HC58|NCKX3\_HUMAN Sodium/potassium/calcium exchanger 3 OS=Homo sapiens GN=SLC24A3  
PE=2 SV=4

MRPSGDEDRARRRRRRRRRDLSSQLCFLASVALLWSLSSLREQKELDLMDLVGEDRK  
WMMARKLMQVNDTLTSEDAGLRNSKNCTEPALHEFPNDIFTNEDRRQGAVVLHVLCAIYM  
FYALAIVCDDFFVPSLEKICERLHLSADVAGATFMAAGSSAPELFTSVIGVFITKGDVGV  
GTIVGSAVFNILCIIGVCGLFAGQVVALSSWCLLRDSIYYTLSVIALIVFIYDEKVSWE  
SLVLVLMYLIYIVIMKYNACIHQCFERRTKGAGNMVNLANNAEIDDSSNCDATVLLKK  
ANFHRKASVIMVDELLSAYPHQLSFSEAGLRIMITSHFPPKTRLSMASRMLINERQRLIN  
SRAYTNGESEVAIKIPIKHTVENGTPSSAPDRGVNGTRRDDVVAEAGNETENENEDNEN  
DEEEEEDEDDDEGPYTPFDTPSGKLETVKWAFWPLSFVLYFTVPNCNKPRWEKWMVTF  
ASSTLWIAAFSYMVMVMTIIIGYTLGIPDVIMGITFLAAGTSVPDCMASLIVARQGMGDM  
AVSNSIGSNVFDILIGLGPWALQTLAVDYGSIIRLNSRGLIYSVGLLLASVFVTVFGVH  
LNKWQLDKKLGCGLLLYGVLFCFSIMTEFNVTFTVNLPMCGDH

>sp|O14777|NDC80\_HUMAN Kinetochore protein NDC80 homolog OS=Homo sapiens GN=NDC80 PE=1  
SV=1

MKRSSVSSGGAGRLSMQELRSQDVNKQGLYTPQTKEKPTFGKLSINKPTSERKVSFLGKR  
TSGHGSRSNLGIFSSSEKIKDPRPLNDKAFIQQCIRQLCEFLTENGYAHNVSMKSLQAP  
SVKDFLKIFTFLYGLCPSYELPDTKFEEVPRIFKDLGYPFALSKSSMYTVGAPHTWPH  
IVAALVWLIDCIKHTAMKESSPLFDDGQPWGEETEDGIMHNKFLDYTIKCYESFMSGA  
DSFDEMNAELQSKLDLNFVDAFKLESLEAKNRALNEQIARLEQEREKEPNRLESRLKLK  
ASLQGDVQKYQAYMSNLESHSAILDQKLNGLNEEIARVELECETIKQENTRLQNIIDNQK  
YSVADIERINHERNELQQTINKLTKDLEAEQQKLWNEELKYARGKEAIEQLAEYHKLAR  
KLKLIPKGAENSKGYDFEIKFNPEAGANCLVKYRAQVYVPLKELLNETEEEINKALNKKM  
GLEDTLQLNAMITESKRSVRTLKEEVQKLDDLYQQKIKEAEEDEKCASELESLEKHKH  
LLESTVNQGLSEAMNELDAVQREYQLVVQTTTEERRKVGNNLQRLLEMVATHVGSVEKHL  
EEQIAKVDREYEECMSEDLSENIKEIRDKEYEKKATLIKSSEE

>sp|A1L188|NDUF8\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor  
8 OS=Homo sapiens GN=NDUFAF8 PE=1 SV=1

MSANGAVWGRVRSRLRAFPERLAACGAEEAAAYGRCVQASTAPGGRLSKDFCAREFEALRS  
CFAAAAKKTLEGGC

>sp|P28331|NDUS1\_HUMAN NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial  
OS=Homo sapiens GN=NDUFS1 PE=1 SV=3

MLRIPVRKALVGLSKSPKGCVRTTATAASNLIIEVFVDGQSVMEPGTTVLQACEKVGMI  
PRFCYHERLSVAGNCRMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAREGVMEFL  
LANHPLDCPICDQGGECDLQDQSMFMGNDRSRFLEGKRAVEDKNIGPLVKTIMTRCIQCT  
RCIRFASEIAGVDDLTTGRGNDMQVGTYIEKFMFSELGNIIDICPVGALTSKPYAFTA  
RPWETRKTESIDVMDAVGSNIIVSTRTEGMRLPRMHEDINEEWISDKTRFAYDGLKRQ  
RLTEPMVRNEKGLTYTSEDALSRVAGMLQSFQGGKDVAAIAGGLVDAEALVALKDLLNR  
VDSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEADVLLVGTNPRFEAPLFNARIRK  
SWLHNDLKVALIGSPVDLTYTYDHLGDSPKILQDIASGSHPFQVLKEAKKPMVVLGSSA  
LQRNDGAAILAAVSSIAQKIRMTSGVTGDWKVMNILHRIASQVAALDLGYKPGVEAIRKN  
PPKVLFLLGADGGCITRQDLPKDCFIIYQGHGHDVGAPIADVILPGAAYTEKSATYVNT  
GRAQQTKVAVTPPGLAREDWKIIIRALSEIAGMTLPYDTLDQVRNRLEEVSPNLVRYDDIE

GANYFQQANELSKLVNQQLLADPLVPPQLTIKDFYMTDSISRASQTMACVKAVTEGAQA  
VEEPSIC

>sp|Q6P3R8|NEK5\_HUMAN Serine/threonine-protein kinase Nek5 OS=Homo sapiens GN=NEK5 PE=2  
SV=1

MDKYDIKAIQGAFGKAYLAKGKSDSKHCVIKEINFEKMPIQEKEASKKEVILKMKH  
PNIVAFFNSFQENGRLFIVMEYCDGGDLMKRINRQGVLFSEDQILGWVQISLGLKHH  
DRKILHRDIKAQNIFLSKNGMVAKLGDGFIARVLNNSMELARTCIGTPYYLSPEICQNK  
YNNKTDIWSLGCVLVELCTLKHPFEGNNLQQLVLKICQAHFAPISPGFSRELHSLISQLF  
QVSPRDRPSINSILKRPFLNLIPIKYLTPEVIQEEFSHMLICRAGAPASRHAGKVQKCK  
IQKVRFGQKCPPRSIRISVPIKRNAILHRNEWPPAGAQAQKARSIKMIERP KIAAVCGHYDY  
YYAQLDMLRRRAHKPSYHIPQENTGVEDYGQETRHGSPSPQWPAEYLQRKFEEAQQYK  
VEKQLGLRPSSAEPNYNQRQELRSNGEPRFQELPFRKNEMKEQEYWKQLEEIRQQYHND  
MKEIRKKMGREPEENSKISHKTYLVKKSNI PVHQDASEGEAPVQMEFRSCCPGWSAMARS  
WLTATSASQDIEKDLKQMLQNTKESKNPEQKYAKKGVKFEINLDKCISDENILQEEEA  
MDIPNETLTFEDGMKFKEYECVKEHGDYTDKAFKELHCPEAGFSTQTVAAGNRRQWDGG  
APQTLLQMMAVADITSTCPTGPDSESVLSVSRQEGKTKDPYSPVLILM

>sp|Q8WX92|NELFB\_HUMAN Negative elongation factor B OS=Homo sapiens GN=NELFB PE=1 SV=1

MFAGLQDLGVANGEDLKETLTNCTEPLKAIEQFQTENGVLPSLQSLPFLDLHGTPRLE  
FHQSVFDEL RDKLLERVSAIASEGKAEERYKKLEDLLEKSFSLVKMPSLQPVVMCMKHL  
PKVPEKKLKLVMADKELYRACAVEVKRQIWQDNQALFGDEVSPLLKQYILEKESALFSTE  
LSVLHNFFSPSPKTRRQGEVVQRLTRMVGNVLYDMVLQFLRTLFLRTRNVHYCTLRAE  
LLMSLHDLDVGEICTVDPCHKFTWCLDACIRERFVDSKRARELQGFLDGVKKGQEQLGD  
LSMILCDPFAINTLALSTVRHLQELVGQETLPRDSPDLLLRLALGGAWDMIDSQVF  
KEPKMEVELITRFLPMLMSFLVDDYTFNVDQKLPAEEKAPVSYPNTLPESFTKFLQEQR  
ACEVGLYYVLHITKQRKNALLRLLPGLVETFGDLAFGDIFLHLLTGNLALLADEFALED  
FCSSLDGFFLTASPRKENVHRHALRLLIHLHPRVAPSKLEALQKALEPTGQSGEAVKEL  
YSQLGEKLEQLDHRKPSPAQAETPALELPLPSVPAPAPL

>sp|A6NFY4|NEMP2\_HUMAN Nuclear envelope integral membrane protein 2 OS=Homo sapiens  
GN=NEMP2 PE=2 SV=3

MGPRQGRWLLLWLPLATLPVRGEAAAAALSVRRCKALKEKDLIRTSSESDCYCYNQNSQ  
VEWKYIWSMTQVKITSPGLFRIVYIAERHNCQYPENILSFIKCVIHFWIPKESNEITII  
INPYRETVCFSVEPVKKIFNYMIHVNRNIMDFKLFLVFVAGVFLFFYARTLSQSPTFYYS  
SGTVLGVMLTVFVLLL VKRFIPKYSTFWALMVGCWFASVYIVCQLMEDLKWLWYENRIY  
VLGYVLIVGFFSFVVCYKHGPLADDRSRSLMWMLRLLSLVLVYAGVAVPQFAYAAIILL  
MSSWSLHYPLRACSYMRWKMEQWFTSKELVVKYLTEDEYREQADAETNSALEELRRACRK  
PDFPSWLVSRLHTPSKFADFVLGGSHLSPEEISLHEEQYGLGGAFLEEQLFNPSTA

>sp|Q96QE2|MYCT\_HUMAN Proton myo-inositol cotransporter OS=Homo sapiens GN=SLC2A13 PE=1  
SV=3

MSRKASENVEYTLRSLSSLMGERRRKQPEPDAASAAGECSLLAAESSTLSQSAGAGGGG  
VGLDERAARRQFQDETAFVYVAVFSALGGFLFGYDTGVVSGAMLLLKRQLSLDALWQ  
ELLVSSTVGAAV SALAGGALNGVFGRR AILLASALFTAGSAVLAAANNKETLLAGRLV  
VGLGIGIASMTVPVYIAEVSPPNLRGRLVTINTLFITGGQFFASVVDGAFSYLQKDGWRY  
MLGLAAVPAVIQFFGFLFPESPRWLIQKGQTQKARRILSQMRGNQTIDEEYDSIKNNIE  
EEEKEVGSAGPVICRMLSYPPTRRALIVGCGLQMFQQLSGINTIMYYSATILQMSGVEDD



RLAIWLASVTAFTNFIIFTLVGVLVEKVGRRKLTFGSLAGTTVALIILALGFVLSAQVSP  
RITFKPIAPSGQNATCTRYSYCNECMLDPDCGFCYKMNKSTVIDSSCPVNKASTNEAAW  
GRCENETKFKTEDIFWAYNFCPTPYSWTALLGLILYLVEFFAPGMGMPWTVNSEIYPLWA  
RSTGNACSSGINWIFNVLSLTFLHTAEYLTYYGAFFLYAGFAAVGLLFIYGCLPETKGK  
KLEEIESLFDNRLCTCGTSDSDEGRYIEYIRVKGSNYHLSNDNDASDVE

>sp|P01106|MYC\_HUMAN Myc proto-oncogene protein OS=Homo sapiens GN=MYC PE=1 SV=1

MPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSELQPPAPSEDIWKKFELLPTTP  
LSPSRRLGLCSPSYAVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPD  
DETFIKNI I IQDCMWSGFSAAAKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQD  
LSAAASECIDPSVVFYPYPLNDSSSPKSCASQDSSAFSPSSDLSLSTESSPQGSPEPLVL  
HEETPPTTSSDSEEEQEDEEEDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRC  
HVSTHQHNYAAPPSTRKDYPAAKRVKLDVSRVLRQISNNRKCTSPRSSDTEENVKRRTHN  
VLERQRRNELKRSFFALRDQIPELENNEKAPKVVLKATAYILSVQAEQKLISEEDLL  
RKRREQLKHKLEQLRNSCA

>sp|Q9P2K5|MYEF2\_HUMAN Myelin expression factor 2 OS=Homo sapiens GN=MYEF2 PE=1 SV=3

MADANKAEVPGATGGDSPHLQPAEPPGEPRREPHPAEAEKQQPQHSSSSNGVKMENDESA  
KEEKSDLKEKSTGSKKANRFHPYSKDKNSGAGEKKGNRNRVFI SNIPYDMKWQAIKDL  
REKVGVEVTVVELFKDAEGKSRGCGVVEFKDEEFVKKALETMNKYDLGRPLNIKEDPDGE  
NARRALQRTGGSPGGHVPDMGSGLMNLPPSILNNPNIPPEVISNLQAGRLGSTIFVANL  
DFKVGWKKLKEVFSIAGTVKRADIKEDKDGSRGMTVTFEQAIEAVQAISMFGQFLFD  
RPMHVKMDDKSVPHYYRSHDGKTPQLPRGLGGIGMGLPGGQPI SASQLNIGGVMGNLG  
PGGMGMDGPGFGGMNRIGGGIGFGGLEAMNSMGGFGGVGRMGELYRGAMTSSMERDFGRG  
DIGINQGFSGDSFGRGLGSAMIGGFAGRIGSSNMGPVSGISGGMGSMNSVTGGMGMGLDRM  
SSSFDRMGPGIGAILERSIDMDRGFLSGPMGSGMRERIGSKGNQIFVRNLPFDLTWQKLK  
EKFSQCGHVMFAEIKMENGKSKGCGTVRFDSPESAEKACRIMNGIKISGREIDVRLDRNA

>sp|Q9H1R3|MYLK2\_HUMAN Myosin light chain kinase 2, skeletal/cardiac muscle OS=Homo sapiens GN=MYLK2 PE=1 SV=3

MATENGAVELGIQNPSTDKAPKGPTGERPLAAGKDPGPPDPKKAPDPPTLKKDAKAPASE  
KGDGTLAQPSTSSQGPKEGDRGGGAEGSAGPPAALPQQTATPETSVKKPKAEQGASGS  
QDPGKPRVGKAAEGQAAARRGSPAFLHSPSCPAI ISSSEKLLAKKPPSEASELTFEGVP  
MTHSPTDPRPAKAEEGKNILAESQKEVGEKTPGQAGQAKMQGDSRGI EFQAVPSEKSEV  
GQALCLTAREEDCFQILDDCPPPPAPFPHRMVELRTGNVSSEFSMNSKEALGGGKFGAVC  
TCMEKATGLKLAAKVIKKQTPKDKEMVLEIEVMNQLNHRNLIQLYAAIETPHEIVLFME  
YIEGGELFERIVDEDYHLTEVDTMVFVRQICDGILFMHKMRVLHLDLKPENILCVNTTGH  
LVKIIDFGLARRYNPNEKLKVNFGTPEFLSPEVVNYDQISDKTDMWSMGVITYMLLSGLS  
PFLGDDDTETLNNVLSGNWYFDEETFEAVSDEAKDFVSNLIVKDQARMNAAQCLAHPL  
NNLAEKAKRCNRRLKSQILLKKYLMKRRWKKNFIAVSAANRFKKISSSGALMALGV

>sp|Q32MK0|MYLK3\_HUMAN Myosin light chain kinase 3 OS=Homo sapiens GN=MYLK3 PE=1 SV=3

MSGTSKESLGHGGLPGLGKTCLTTMDTKLNLNEKVDQLLHFQEDVTEKLQSMCRDMGHL  
ERGLHRLEASRAPGPGGADGVPHIDTQAGWPEVLELVRAMQQDAAQHGARLEALFRMVAA  
VDRAIALVGATFQKSKVADFLMQGRVPWRRGSPGDSPEENKERVEEGGKPKHVLSTSGV  
QSDAREPGEESQKADVLEGTAEPLPIRASGLGADPAQAVVSPGQGDGVGPAQAFPGHL  
PLPTKVEAKAPETPSENLRTGLELAPAGRVNVVSPSLEVAPGAGQGASSSRPDPEPLEE  
GTRLTPGPGPQC PGPPGLPAQARATHSGGETPPRISIHIQEMDTPGEMLMTGRGSLGPTL

TTEAPAAAQPGKQGPPTGRCLQAPGTEPGEQTPEGARELSPLQESSSPGGVKAEEEQRA  
GAEPGTRPSLARSDDNDHEVGALGLQQGKSPGAGNPEPEQDCAARAPVRAEAVRRMPPGA  
EAGSVVLLDDSPAPPFEHRVSVKETSISAGYEVQCHEVLGGGRFGQVHRCTEKSTGLP  
LAAKIIKVKSAKDREDVKNEINIMNQLSHVNLIQLYDAFESKHSCTLVMEYVDGGELFDR  
ITDEKYHLTELDVVLFTTRQICEGVHYLHQHYILHLDLKPENILCVNQTGHQIKIIDFGLA  
RRYKPREKLKVNFGTPEFLAPEVVNYEFVSFPTDMWSVGVITYMLLSGLSPFLGETDAET  
MNFIVNCSDWFDADTFEGLSEEAKDFVSRLLVKEKSCRMSATQCLKHEWLNNLPAKASRS  
KTRLKSQLLLQKYIAQRKWKKHFFVVTAAANRLRKFTSP

>sp|000160|MYO1F\_HUMAN Unconventional myosin-If OS=Homo sapiens GN=MYO1F PE=1 SV=3

MGSKERFHWQSHNVKQSGVDDMVLPPQITEDAIAANLRKRFMDYIFTYIGSVLISVNP  
KQMPYFTDREIDLQGAAYENPPHIYALTDNMYRNMLIDCENQCVIISGESGAGKTVA  
KYIMGYISKVSGGGEKVQHVKDIIILQSNPLLEAFGNAKTVRNNSRFGKYFEIQFSRGG  
EPDGGKISNLFLEKSRVVMQENERNFHIYYQLLEGASQEQRQNLGLMTPDYYYLQSD  
TYQVDGTDDRSDFGETLSAMQVIGIPPSIQQLVLVLVAGILHLGNISFCEDGNYARVESV  
DLLAFPAYLLGIDSGRLQEKLSRKMDSRWGGRSSEINVTLNVEQAAYTRDALAKGLYAR  
LFDLVEAINRAMQKPQEEYSIGVLDIYGFEIFQKNGFEQFCINFVNEKLQQIFIELTLK  
AEQEEYVQEGIRWTPIQYFNNKVVCDLIENKLSPPGIMSVLDDVCATMHATGGGADQTLL  
QKLQAAVGTHEHFNWSAGFVIHHYAGKVSVDVSGFCERNRDVLFSDLIELMQTSEQAFL  
RMLFPEKLDGDKKGRPSTAGSKIKKQANDLVATLMRCTPHYIRCIKPNETKRPRDWEENR  
VKHQVEYLGLENIRVRRAGFAYRRQFAKFLQRYAILTPETWPRWRGDERQGVQHLLRAV  
NMEPDQYQMGSTKVFVNPESLFLLVEVRERKFDGFARTIQKAWRRHVAVRKYEEMREEA  
SNILLNKKERRRNSINRNFVGDYLGLEERPELRQFLGKRERVDFAFSVTKYDRRFKPIKR  
DLILTPKCVYVIGREKVKKGPEKGQVCEVLKKKVDIQALRGVSLSTRQDDFFILQEDAAD  
SFLESVFKTEFVSLCKRFEEATRPLPLTFSDTLQFRVKKEGWGGGTRSVTFSRFGD  
LAVLKVGGRTLTVSVGDGLPKSSKPTRKGMAGKPRRSSQAPTRAAPAPPRGMDRNGVPP  
SARGGPLPLEIMSGGTHRPPRGPSTSLGASRRPRARPPSEHNTEFLNVPDQGMAGMQR  
KRSVGQRPVPGVGRPKPQPRTHGPRCALYQYVGQDVDELSFNVNEVIEILMEDPSGWWK  
GRLHGQEGFLFPGNYVEKI

>sp|BOI1T2|MYO1G\_HUMAN Unconventional myosin-Ig OS=Homo sapiens GN=MYO1G PE=1 SV=2

MEDEEGPEYKPDFVLLDQVTMEDFMRNLQLRFEKGRIYTYIGEVLVSVNPYQELPLYGP  
EAIARYQGRELIERPPHYAVANAAYKAMKHRSRDTICIVISGESGAGKTEASKHIMQYIA  
AVTNPSQRAEVERVKDVLLKSTCVLEAFGNARTNRNHNSSRFGKYMDINFDKGDPIGGH  
IHSYLLEKSRVLKQHVGERNFHAFYQLLRGSEDKQLHELHLERNPAVYNFTHQGAGLNT  
VHSALDSDEQSHQAVTEAMRVIGFSPEEVESVHRILAAIHLGNIEFVETEGLQKEGL  
AVAEELVDHVAELTATPRDLVLRSLARTVASGGRELIEKGHTAAEASYARDACAKAVY  
QRLFVWVNRINSVMEPRGRDPRRDGKDTVIGVLDIYGFEVFPVNSFEQFCINYCNEKLQ  
QLFIQLILKQEQEEYEREGITWQSVVEYFNATIVDLVERPHRGILAVLDEACSSAGTITD  
RIFLQTLDMHHRHHLHYTSRQLCPTDKTMEFGRDFRIKHYAGDVTYSVEGFIDKNRDLF  
QDFKRLLYNSTDPTLRAMWPDGQQDITEVTKRPLTAGTLFKNSMVALVENLASKEPFYVR  
CIKPNEDKVAGKLDENHCRHQVAYLGLENVRVRRAGFASRQPYSRFLRYKMTCEYTP  
NHLLGSDKAAVSALLEQHGLQGDVAFGHSKLFI RSPRTLVTLEQSRARLIP IIVLLLQKA  
WRGTLARWRCRLRAIYTIMRWFRHKVRAHLAELQRRFQAARQPPLYGRDLVWPLPPAV  
LQPFQDTCHALFCRWRARQLVKNIPSDMPQIKAKVAAMGALQGLRQDWGCRRARWARDYL  
SSATDNPTASSLFAQRLKTLQDKDGFAGVLFSSHVRKVNRFHKIRNRALLLTDQHLYKLD

PDRQYRVMRAVPLEAVTGLSVTSGGDQLVVLHARGQDDLVLHRSRPPLDNRVGELVGV  
LAAHCQGEGRTELVRSDCIPLSHRGVRRLLISVEPRPEQPEPDFRCARGSFLLWPSR

>sp|P54296|MYOM2\_HUMAN Myomesin-2 OS=Homo sapiens GN=MYOM2 PE=1 SV=2

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TSLGGTICRVCAKRVSTQEDEEQENRSRYQSLVAAYGEAKRQRFLELAHLEEDVHLARS  
QARDKLDKYAIIQMMEDKLAWERHTFEERISRAPEILVRLRSHTVWERMSVKLCFTVQGF  
PTPVVQWYKDGSLICAAEPGKYRIESNYGVHTLEINRADFDDTATYSAVATNAHGQVST  
NAAVVRRFRGDEEPFRSVGLPIGLPLSSMIPYTHFDVQFLEKFGVTFRREGETVTLKCT  
MLVTPDLKRVQPRAEWYRDDVLLKESKWTMFFGEGQASLSFSLHKDDEGLYTLRIVSR  
GGVSDHSAFLFVRDADPLVTGAPGAPMDLQCHDANRDYIVTWKPPNTTTESPVMGYFVD  
RCEVGTNNWVQCNDAPVKICKYPVTGLFEGRSYIFRVRVNSAGISRPSRVSDAVAALDP  
LDLRLQAVHLEGEKEIAIYQDDLEGDAQVPGPPTGVHASEISRNYVLSWEPPTPRGKD  
PLMYFIEKSVVSGSWGQRVNAQTAVRSPRYAVFDLMEGKSYVFRVLSANRHGLSEPSEIT  
SPIQAQDVTVPSAPGRVLASRNTKTSVVVQWDRPKHEEDLLGYVDDCCVAGTNLWEPCN  
HKPIGYNRFFVHGLTTGEQYIFRVKAVNAVGMSENSQESDVIKVQAALTVPSHPYGITLL  
NCDGHSMTLGWKVPKFSGGSPILGYLDKREVHHKNWHEVNSSPSKPTILTVDGLTEGSL  
YEFKIAAVNLAGIGEPSDPSEHFKEAWTMPEPGPAYDLTFCEVRDTSVLMWKAPVYSG  
SSPVSGYFVDFREEDAGEWITVNQTTTANRYLKVSDLQQGKTYVFRVRVANGVGKPSD  
TSEPVLEARPGTKEISAGVDEQNIYLGFDCEMTDASQFTWCKSYEEISDDERFKIET  
VGDHSLYLNKPKEDLGTYSVVSDDTDGVSSSFVLDPEELERLMALSNEIKNPTIPLKS  
ELAYEIFDKGRVRFWLQAEHLSPDASYRFIINDREVSDSEIHRICKDKATGIEMVMDFR  
SIENEGTYTVQIHDGKAKSQSSLVLIGDAFKTVLEAEFQRKEFLRKQGPFAEYLHWDV  
TEECEVRLVCKVANTKKETVFKWLKDDVLYETETLPNLERGICELLIPKLSKKDHGEYKA  
TLKDDRGGQDVSILEIAGKVYDDMILAMSRVCGKSASPLKVLCTPEGIRLQCFMKYFTDEM  
KVNWCHKDAKISSSEHMRIIGGSEMAWLQICEPTEKDKGKYTFEIFDGKDNHQRSLDLSG  
QAFDEAFAEFQFKAAAFKAEKNRRLIGGLPDVVTIMEGKTLNLTCTVFGNPDPEVIWFK  
NDQDIQLSEHFSVKVEQAKYVSMTIKGVTSSESGKYSINIKNYGGEKIDVTVSVYKHGE  
KIPDMAPPQQAQPKLIPASASAAGQ

>sp|P02689|MYP2\_HUMAN Myelin P2 protein OS=Homo sapiens GN=PMP2 PE=1 SV=3

MSNKFLGTWKLVSSENFDDYMKALGVGLATRKLGNLAKPTVIISKKGDIITIRTESTFKN  
TEISFKLGQFEETTADNRKTSIVTLQRGSLNQVQRWDGKETTIKRLVNGKMVAECKM  
KGVVCTRIYEKV

>sp|Q14324|MYPC2\_HUMAN Myosin-binding protein C, fast-type OS=Homo sapiens GN=MYBPC2 PE=1  
SV=2

MPEAKPAKKAPKGDAPKGAPKEAPPKEAPAEAPKEAPPEDQSPTAEPTGVFLKKPDS  
VSVETGKDAVVVAKVNGKELPDKPTIKWFKGWLELGSKSGARFSFKESHNSASNVYTV  
LHIGKVVLGDRGYRLEVKAKDTCDSGFGNIDVEAPRQDASGQSLESFKRTSEKSDTAG  
ELDFSGLLKKREVVEEEKKKKKKDDDLGIPPEIWELLKGAKKSEYEKIAFYGITDLRG  
MLKRLKKAKEVKKSAFTKKLDPAYQVDRGNKIKLMVEISDPDLTKWFKNGQEIKPSS  
KYVFENVGKKRILTINKCTLADDAAYEVAVKDEKCFTELTVKEPPVLIVTPLEDQVQVFG  
DRVEMAVEVSEGAQVMWMDGVELTREDSEFKARYRFKKDGKRHILIFSDVVQEDRGRYQ  
VITNGGQCEAEILVEEKQLEVLQDIADLTVKASEQAVFKCEVSDEKVTGKWKNGVEVRP  
SKRITISHVGRFHLVIDDVRPEDEGDYTFVPDGYALSLSAKLNFLEIKVEYVPKQEP  
IHLDCSGKTSENAIVVVAGNKLRLDVSITGEPPPVTWLKGDEVFTTTEGRTRIEKRVDC

SSFVIESAQREDEGRYTIKVTNPVGEDVASIFLQVVDVDPPEAVRITSVGEDWAILVWE  
PPMYDGGKPVGTGYLVERKKKGSQRWMKLNFEVFTETTTYESTKMIEGILYEMRVFAVNAIG  
VSQPSMNTKPFMPIAPTSEPLHLIVEDVTDTTTTLKWPPNRIGAGGIDGYLVEYCLEGS  
EEWVPANTEPVERCGFTVKNLPTGARILFRVVGVNIAGRSEPATLAQPVTIREIAEPPKI  
RLPRHLRQTYIRKVGEQLNLVVPFQGKPRPQVVWTKGGAPLDTSRVHVRTSDFDTVFFVR  
QAARSDSGEYELSVQIENMKDTATIRIRVVEKAGPPINVMVKEVWGTNALVEWQAPKDDG  
NSEIMGYFVQKADKKTMEWFNVYERNRHTSCTVSDLIVGNEYFRVYTENICGLSDSPGV  
SKNTARILKTGITFKPFYKEHDFRMAPKFLTPLIDRVVAGYSAALNCAVRGHPKPKVV  
WMKNKMEIREDPKFLITNYQGVLTNIRRSPFDAGTYTCRAVNELGEALAECKLEVRVP  
Q

>sp|Q86TC9|MYPN\_HUMAN Myopalladin OS=Homo sapiens GN=MYPN PE=1 SV=2

MQDDSI EASTSISQLLRESYLAETRHRGNNSRAEPSSNPCHFGSPSGAAEGGGQDDL  
PDLAFLSQEELDES VN LARLAINYDPLEKADETQARKRLSPDQMKHSPNLSFEPNFCQD  
NPRSPTSSKESPQEAKRQYCSSETQSKKVFLNKAADFIEELSSLFKSHSSKRIRPRACKN  
HKSKLESQNKVMQENSSSFSDLERRERSSVPIPIPADTRDNEVNHAEQQEAKRREAEQ  
AASEAAGGDTPGSSPSSLYEEPLGQPPRFTQKLRSREVPEGTRVQLDCIVVGIPPPQV  
RWYCEGKELENSPDHIVQAGNLHSLTIAEAFEEDTGRYSCFASNIYGT DSTSAEIIYIEG  
VSSDSEGDPNKEEMNRIQKPNEVSSPPTSAVIPPAPVQAQHLVAQPRVATIQQCQSPT  
NYLQGLDGKPIIAAPVFTKMLQNL SASEGQLVVFECRVKGAPSPKVEWYREGTLIEDSPD  
FRILQKKPRMAPEEICTLVIAEVFAEDSGCFTCTASNKYGT VSSIAQLHVRGNEDLSN  
NGSLHSANSTTNLAAIEPQSPPHSEPPSVEQPPKPKLEGVLVNHNEPRSSSRIGLRVHF  
NLPEDDKGSEASSEAGVVTTRQTRPDSFQERFNGQATKTPEPSSPVKEPPPVLAKPKLDS  
TQLQQLHNQVLLQHLQNLPPSPSPEFPFSMTVLNSNAPPAVTTSSKQVKAPSSQTFSL  
ARPKYFFPSTNTAATVAPSSSPVFTLSSTPQTIQRTVSKESSLVSHPSVQTKSPGGLSI  
QNEPLPPGPTEPTPPPTFSIPSGNQFQPRCVSIPVSPTSRIQNPVAFLLSSVLPSLPAI  
PPTNAMGLPR SAPSMPSQGLAKKNTKSPQPVNDNIRETKNAVIRDLGKKITFSDVRPNQ  
QEYKISSFEQRLMNEIEFRLERTPVDESDDDEIQHDEIPTGKCIAPFDKRLKHFRVTEGS  
PVTFTCKIVGIPVPKVYWFKDGKQISKRNEHCKMRREGDGTCSLHIESTSDDDGNYTIM  
AANPQGRISCSGHLMVQSLPIRSRLTSAGQSHRGRSRVQERDKEPLQERFFRPHFLQAPG  
DMVAHEGRLCRLDCKVSGLPPELTWLLNGQPVL PDASHKMLVRETGVHSLIDPLTQRD  
AGTYKCIATNKTGQNSFSLELSVVAKEVKKAPVILEKLQNCGVPEGHPVRLECRVIGMPP  
PVFYWKDNETIPCTRERISMHQDTTGYACLLIQPAKSDAGWYTL SAKNEAGIVSCTAR  
LDIYAQWHHQIPPPMSVRPSGSRYSGLTSKGLDIFSAFSSMESTMVYSCSSRSVVEDEL

>sp|Q9GZZ1|NAA50\_HUMAN N-alpha-acetyltransferase 50 OS=Homo sapiens GN=NAA50 PE=1 SV=1

MKGSRIELGDVTPHNKQLKRLNQVIFPVSYNDKFYKDVLEVGE LAKLAYFN DIAVGAVC  
CRVDHSQNQKRLYIMTLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLVHVISNESA  
IDFYRKFGFEI IETKKNYKRIEPADAHVLQKNLKVPSGQNADVQKTDN

>sp|Q9UK23|NAGPA\_HUMAN N-acetylglucosamine-1-phosphodiester alpha-N-

acetylglucosaminidase OS=Homo sapiens GN=NAGPA PE=1 SV=2

MATSTGRWLLRLALFGFLWEASGGLDSGASRDDDLLPYPRARARLPRDCTRVRAGNRE  
HESWPPPPATPGAGGLAVRTFVSHFRDRAVAGHLTRAVEPLRTFSVLEPGGPGGCAARRR  
ATVEETARAADCRAQNGGFFRMNSGECLGNVVSDERRVSSSGGLQNAQFGIRRDGTLVT  
GYLSEEEVLDTENPFVQLLSGVVWLIRNGSIYINESQATECDETQETGSFSKFVNVISAR  
TAIGHDRKGQLVLFHADGQTEQRGINLWEMAEFLKQDVVNAINLDGGGSATFVLNGTLA

SYPSDHCQDNMWRCPRQVSTVVCVHEPRCQPPDCHGHGTCVDGHCQCTGHFWRPGCDEL  
DCGPSNCSQHGLCTETGCRCDAWGTGSNCSEECPLGWHGPGCQRPCKEHHPCDPKTGN  
CSVSRVKQCLQPPEATLRAGELSFFTRTAWLALTLALAFLLLISTAANLSLLLSRAERNR  
RLHGDYAYHPLQEMNGEPLAAEKEQPGGAHNPFKD

>sp|Q8IZF0|NALCN\_HUMAN Sodium leak channel non-selective protein OS=Homo sapiens GN=NALCN  
PE=1 SV=1

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FEHYPLQYVTFITDILLMFLYTAEMIAKMHIRGIVKGDSSYVKDRWCVFDGFMVFCLWV  
SLVLQVFEIADIVDQMSPWGMLRIPRPLIMIRAFRIYFRFELPRTRITNILKRSGEQIWS  
VSIFLLFFLLLYGILGVQMFGTFTYHCVVNDTKPGNVTWNSLAIPDTHCSPELEEGYQCP  
PGFKCMDLEDLGLSRQELGYSGFNEIGTSIFTVYEAASQEGWVFLMYRAIDSFPRWRSYF  
YFITLIFFLAWLVKNVFIIVETFAEIRVQFQQMWGSRSTTSTATTQMFHEDAAGGWQ  
LVAVDVNKPQGRAPACLQKMMRSSVFHMFILSMVTVDVIVAASNYYKGENFRRQYDEFYL  
AEVAFTVLFDFLEALLKIWCLGFTGYISSSLHKFELLVIGTTLHVYPDLYHSQFTYFQVL  
RVVRLIKISPALEDVYKIFGPGKKLGLSVFTASLLIVMSAISLQMFCEELDRFTTF  
PRAFMSMFQILTQEGWVDVMDQTLNAVGHMWAPVVAIYFIFYHLFATLILLSLFVAVILD  
NLEDEDLKKLQKQSEANADTKEKLPLRLRIFEKFPNRPQMVKISKLPDFTVPKIRE  
SFMKQFIDRQQQDTCCLLRSLPTSSSSCDHSKRSIEDNKYIDQKLKRSVFSIRARNLL  
EKETAVTKILRACTRQRMILSGSFEGQPAKERSILSVQHHRQERRSLRHGSNSQRISRGK  
SLETLTQDHSNTVRYRNAQREDSEIKMIEKKEQAEMKRKVQEEELRENHPYFDKPLFIV  
GREHRFRNFCRVVVRARFNASKTDPVTGAVKNTKYHQLYDLLGLVTYLDWVMIIVTICSC  
ISMMEFSPFRRVMHAPTQIAEYVFVIFMSIELNLKIMADGLFFTPTAVIRDFGGVMDIF  
IYLVSLIFLCWMPQNVPAESGAQLLMVLRLCLRLRIFKLVPMRKVVRELFSGFKEIFLV  
SILLTLMLVFASFVQLFAGKLAKCNDPNIIRREDCNGIFRINVSVSKNLNLKLRPGEK  
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>sp|Q96L15|NAR5\_HUMAN Ecto-ADP-ribosyltransferase 5 OS=Homo sapiens GN=ART5 PE=2 SV=4

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>sp|Q8NEY1|NAV1\_HUMAN Neuron navigator 1 OS=Homo sapiens GN=NAV1 PE=1 SV=2

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GPCFFLSCPIGIEDFRTWFIDLWNNSIIPYLQEGAKDGIKVHGQKAAWEDPVEWVRD TLP  
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>sp|Q8IVL1|NAV2\_HUMAN Neuron navigator 2 OS=Homo sapiens GN=NAV2 PE=1 SV=3

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>sp|A2RRP1|NBAS\_HUMAN Neuroblastoma-amplified sequence OS=Homo sapiens GN=NBAS PE=1 SV=2

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>sp|O60934|NBN\_HUMAN Nibrin OS=Homo sapiens GN=NBN PE=1 SV=1  
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>sp|Q96M43|NBPF4\_HUMAN Neuroblastoma breakpoint family member 4 OS=Homo sapiens GN=NBPF4  
PE=2 SV=2  
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CPQGTWSGDLSHHQSEVQVSQAQLEPSTLVPSCRLRLQDQGFHCGNLAQRGLSSTTCSF  
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>sp|Q5TAG4|NBPF\_HUMAN Neuroblastoma breakpoint family member 12 OS=Homo sapiens  
GN=NBPF12 PE=2 SV=2

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>sp|AOA087WUL8|NBPFJ\_HUMAN Neuroblastoma breakpoint family member 19 OS=Homo sapiens  
GN=NBPF19 PE=5 SV=1

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VGEIEKKKGKRRGRRSKERRRGRKEGEEDQNPPCPRLSRELLDEKGPEVLQDSLDRCY  
YSTPSGCLELTDSCQPYRSAFYILEQQCVGLAVDMDEIEKYQEVEEDQDPSCPRLSRELL  
AEKEPEVLQDPLDRCYSTPSGYLELPDLGQPYSSAVYSLEEQLGLALDVEDRIKKDQEEE  
EDQPPCPRLSRELLEVEPEVLQDSLDRCYSTPSGCLEQPDSCQPYGSSFYALEEKHVG  
FSLDVGEIEKKKGKRRGRRSKERRRGRKEGEEDQNPPCPRLNSVLMEEVEPEVLQDS  
LDGCYSTPSMYFELPDSFQHYRSVFYSFEEHISFALYLDNRFFTLTVTSLHLVFQMLVI  
FPQ

>sp|Q14596|NBR1\_HUMAN Next to BRCA1 gene 1 protein OS=Homo sapiens GN=NBR1 PE=1 SV=3  
MEPQVTLNVTFKNEIQSFLVSDPENTTWADIEAMVKVSFDLNTIQIKYLDEENEEVSINS  
QGEYEEALKMAVKQGNLQMQVHEGHVVD EAPPVVGAKRLAARAGKKPLAHYSSSLVRV  
LGSDMKTPEDPAVQSFLVPCDTPQDKPPDWFTSYLETFREQVNETVEKLEQKLHEK  
LVLQNPSLGCSPSEVSMPTSEETLFLPENQFSWHIACNNCQRRIVGVRYQCSLCPSYNIC

EDCEAGPYGHDTNHVLLKLRRPVVGSSEPFCHSKYSTPRLPAALEQVRLQKQVDKNFLKA  
EKQRLRAEKKQRKAEVKELKKQLKLRKIHLWNSIHGLQSPKSPLGRPESLLQSNTMLLP  
LQPCTSVPMMLSAAFVDENLPDGLHLPQGTGFIKHWRMKNTGNVKSADTKLKFMWGNLT  
LASTEKKDVLPCLKAGHVGVVSEFIAPALEGTYTSHWRLSHKGQQFGPRVWCSIIVDP  
FPSEESPDNIEKGMISSSKTDDLTCQQEETFLLAKEERQLGEVTEQTEGTAACIPQKAKN  
VASERELYIPSDLLTAQDLLSFELLDINIVQELERVPHNTPVDVTPCMSPLPHDSPLIE  
KPLGLGQIEENEGAGFKALPDSMVSVKRKAENIASVEEAEDLSGTQFVCETVIRSLTLD  
AAPDHNPPCRQKSLQMTFALPEGPLGNEKEEIIHIAEEEAVMEEEDEDEEEDEELKDE  
VQSQSSASSEDYIIILPECFDTSRPLGDSMYSSALSQPLGERGAEGKPGVEAGQEPAEAG  
ERLPGGENQPQEHISDILTTSQTLETVPLIPEVVLPPLRSPCVHHHSGPGVDLPV  
TIPEVSSVPDQIRGEPRGSSGLVNSRQKSYDHSRHHHGSSIAGGLVKGALSVAASAYKAL  
FAGPPVTAQPIISEDQTAALMAHLFEMGFCDRQLNLRLKKHNYNILQVVTELLQLNND  
WYSQRY

>sp|015394|NCAM2\_HUMAN Neural cell adhesion molecule 2 OS=Homo sapiens GN=NCAM2 PE=1 SV=2

MSLLSFYLLGLLVSSGQALLQVTISLSKVELSVGESKFFTCTAIGEPESIDWYNPQGEK  
IISTQRVVVQKEGVRSLTIYNANIEDAGIYRCQATDAKGQTQEATVVLEIYQKLTREV  
VSPQEFKQGEDAEVVCVSSSPAPAVSWLYHNEEVTITSDNRFAMLANNLQILNINKSD  
EGIYRCEGRVEARGEIDFRDIIIVNVPPAISMPQKSFNATAERGEEMTFSCRASGSPEP  
AISWFRNGKLIENEKYILKGSNTELTVRNIINSDGGPYVCRATNKAGEDEKQAFQVVFV  
QPHIIQLKNETTYENGQVTLVCDAGEPIPEITWKRAVDGFTFTGDKSLDGRIEVKGQH  
GSSSLHIKDVKLSDSGRYDCEAASRIGGHQKSMYLDIEYAPKFISNQTIIYYSWEGNPINI  
SCDVKSNPPASIHWRDKLVLPKNTTNLKYSTGRKMILEIAPTSNDNFGRYNCTATNH  
IGTRFQEYILALADVPSSPYGVKIIELSQTAKVSFNKPDSSHGGVPIHHYQVDVKEVASE  
IWKIVRSHGVQTMVVLNLEPNTTYEIRVAAVNGKGQGDYSKIEIFQTLVREPSPPSIH  
GQPSSGKSFKLSITKQDDGGAPILEYIVKYRSKDKEDQWLEKKVQGNKDHIILEHLQWTM  
GYEVQITANRLGYSEPTVYEFMSPPKPNIIKDTLFGNLGLGAVIGLVAAALLILVVD  
VSCFFIRQCGLLMCITRRMCGKKS GSSGKSKELEEGKAAYLKDGSKEPIVEMRTEDERV  
NHEDGSPVNEPNETTPLTEPEKLPLKEEDGKEALNPETIEIKVSNIIQSKEDDSKA

>sp|014594|NCAN\_HUMAN Neurocan core protein OS=Homo sapiens GN=NCAN PE=1 SV=3

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FTLQPRPSAARDAPRIKWKVRTASGQRQDLPILVAKDNVVRVAKSWQGRVSLPSYPRRR  
ANATLLGLPLRASDSGLYRCQVVRGIEDEQDLVPLEVTGVVFHYRSARDRYALTFAEAQE  
ACRLSSAIIAAPRHLQAAFEDGFDNCDAGWLSDRTVRYPITQSRPGCYGDRSSLPGVRSY  
GRRNPQEYLDVYCFARELGGEVFYVGPARRLTLAGARAQCRRQGAALASVGQLHLAWHEG  
LDQCDPGWLADGSVRYPITQPRRRCGGPAGVRTVYRFANRTGFPSPAERFDAYCFRAHH  
PTSQHGDLTPSSGDEGEILSAEGPPVRELEPTLEEEVVTPDFQEPLVSSGEEETLILE  
EKQESQQTLSPTPGDPMLASWPTGEVWLSTVAPSPSDMGAGTAASSHTEVAPTDPMPRRR  
GRFGKLNTRYFQQQEPEPGLQGGMEASAPPTSEAAVNQMEPPLAMAVTEMLGSGQSRSP  
WADLTNEVDMPGAGSAGGKSSPEPWLWPPTMVPPSISGHSRAPVLELEKAEGPSARPATP  
DLFWSPLEATVSAPSAPWEAFPVATSPDLPMAMLRGPKWMLPHPTPISTEANRVEAH  
GEATATAPPSPAETKVYSLPLSLTPTGQGGEAMPTTPESPRADFRETGETSPAQVNKAE  
HSSSSPWPSVNRNAVGVFPTETATEPTGLRGIPGSESGVFDTAESPTSGLQATVDEVQD  
PWPSVYSKGLDASSPSAPLGS PGVFLVPKVTNLEPWATDEGPTVNPMDSTVTPAPSDA  
SGIWEPGSQVFEEAESTTSLPQVALDTSIVTPLTTLEQGDVKGVAMPSTLGSSSSQPHPE

PEDQVETQGTSGASVPPHQSSPLGKPAVPPGTPTAASVGESASVSSGEPTVPWDPSSTLL  
PVTLGIEDFELEVLASPGVESFWEEVASGEEPALPGTPMNAGAEVHSDPCENNPCLHG  
GTCNANGTMYGCSCDQGFAGENCEIDIDDCLCSPCENGGTCTIDEVNGFVCLCLPSYGGSF  
CEKDTEGCDRGWHKFQGHYCYRYFAHRRAWEDAEDKCRRRSGHLTSVHSPEEHSFINSFGH  
ENTWIGLNDRIVERDFQWTDNTGLQFENWRENQPDNFFAGGEDCVVMVAHESGRWNDVPC  
NYNLPYVCKKGTVLCGPPPAVENASLIGARKAKYNVHATVRYQCNEGFAQHHVATIRCRS  
NGKWDRPQIVCTKPRRSHRMRHHHHHHQH HHQH HHHSRKRERRKHKHPTEDWEKDEGNF  
C

>sp|Q9HCHO|NCK5L\_HUMAN Nck-associated protein 5-like OS=Homo sapiens GN=NCKAP5L PE=1 SV=2

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VANHVQALLNQDLREECIKLKKRVFDLERQNQMLSALFQQKLQLTTGSLPQIPLTPLQ  
PPSEPPASPSLSSTEGPAAPLPLGHCAGQREVCWEQQLRPGGPGPPAAPPALDALSPFL  
RKKAQILEVLRAL EETDPLLLCSPATPW RPPGQGPSPEPINGELCGPPQPEPSWAPCL  
LLGPGNLGGLLHWERLLGGLGGEEDTGRPWGPSRGPPQAQGTSSGPNCAPGSSSSSSSDE  
AGDPNEAPSPDTLLGALARRQLNLGQLLEDTESYLQAFLAGAAGPLNGDHPGPGQSSSPD  
QAPPQLSKSKGLPKSAWGGGTPEAHRPGFGATSEGQGPLPFLSMFMGAGDAPLGSRPGHP  
HSSSQVSKSLQIGPPSPGEAQGPLLPSPARGLKFLLKLPPTSEKSPSPGGPQLSPQLPRNS  
RIPCRNSGSDGSPSPLLARRGLGGGELSPEGAQGLPTSPSPCYTTDPDSTQLRPPQSALST  
TLSPGPVVSPCYENILDLRSRSTRGRPSPEPPPSPLQVPTYQLTLEVPQAPEVLRSPGVP  
PSPCLPESYPYGGSPQEKSLDKAGESPHPGRRTPGNSSKKPSQSGRRPGDPGSTPLRDR  
LAALGKLKTGPEGALGSEKNGVPARPGTEKTRGPGKSGESAGDMVPSIHRPLEQLEAKGG  
IRGAVALGTNSLKQEQEPLMGDPGARVYSSHSMGARVDLEPVSPRSCLTKVELAKSRLAG  
ALCPQVPRTPAKVPTSAPSLGKPNKSPHSSPTKLPSKSPTKVVRPGAPLVTKESPKPDK  
GKGPPWADCGSTTAQSTPLVPGPTDPSQGPEGLAPHS AIEEKVMKGIEENVLRLQGQERA  
PGA EVKHRNTSSIASWFLKKS KL PALNRRTEATKNKEGAGGGSPLRREVKMEARKLEAE  
SLNISKLMKAEDLRRAL EEEKAYLSSRARPRPGGPAPGPNTGLGQVQQLAGMYQGADT  
FMQQLLN RV DGKELPSKSWREPKEPYGDFQPVSSDPKSPWPACGPRNGLVGPLQCGCKPP  
GKPSSEPGRREETPSEDSLAEPVPTSHFTACGSLTRTLDSGIGTFPPPDHGSSGTPSKNL  
PKTKPRLDPPPGVPPARPPPLTKVPRRAHTLEREVPGIEELLVSGRHPSMPAFPA LPA  
APGHRGHETCPDDPCEDPGTPPVQLAKNWTFPNTRAAGSSSDPLMCPPRQLEGLPRTPM  
ALPVDRKRSQEPSRSPSTPQGPPFGGSRTPTSDMAEEGRVASGGPPGLETSESLSDSLY  
DSLSSCGSQG

>sp|P55160|NCKPL\_HUMAN Nck-associated protein 1-like OS=Homo sapiens GN=NCKAP1L PE=1 SV=3

MSLTSAYQHKLA EKL TILNDRGQGV LIRMYNIKKTCSDPKSKPPFLEKSMEPSLKYINK  
KFPNIDVRNSTQHLGPVHREKAEIIRFLTNYYSFVDVMEFRDHVYELLNTIDACQCHFD  
INLNFDFTRSYLDLIVTYTSVILL SRIEDRRILIGMYNCAHEMLHGHGDP SFARLGQMV  
LEYDHLPLKKLTEEFGPHTKAVSGALLSLHFLFVRRNQGAEQWRS AQLLSLISNPPAMINP  
ANSDTMACEYLSVEVMERWIIIGFLLCHGCLNSNSQCQKLWKLCLQGS LYITL IREDVLQ  
VHKVTEDLFSS LKGYGKRVADIKESKEHVIANSGQFHCQRRQFLRMAVKELETVLAD EPG  
LLGPKALFAFMALSFIRDEVTWLV RHTENVTKTKTPEDYADSSIAELLFLEGI RSLVRR  
HIKVIQYHLQYLARFDALVLSDI IQNLSVCPEEESIIMSSFVSILSSLNLKQVDNGEKF  
EFGSLRLDWFRLQAYTSVAKAPLHLHENPDLAKVMNLIVFHSRMLDSVEKLLVETS DLST  
FCFHLRIF EKMFA MTL EESAM LRYAIAFPLICAHFVHCTHEMCPEEYPHLKNHGLHHCNS  
FLEELAKQTSNCVLEICAEQRNLSEQLLPKHCATTISKAKNKKTRKQRQT PRKGEPERDK

PGAESHRKNRSIVTNMDKLHLNLTELALTMNHVYSFSVFEHTIFPSEYLSHLEARLNRA  
IVWLAGYNATTQEIVRPSELLAGVKAYIGFIQSLAQFLGADASRVIRNALLQQTQPLDSC  
GEQTITTLTYTNWYLESLLRQASSGTIILSPAMQAFVSLPREGEQNFSAEFSDISEMRAL  
AELLGPYGMKFLSENLMWHVTSQIVELKKLVVENMDILVQIRSNFSKPDLMASLLPQLTG  
AENVLKRMTIIGVILSFRAMAQEGLREVFSHCPFLMGPIECLKEFVTPDIDIKVTLISIF  
ELASAAGVGCDIDPALVAAIANLKADTSSPEEEYKVACLLIFLAVSLPLLATDPSSFYS  
IEKDGYNNNIHLTKAIIQVSAALFTLYNKNIETHLKEFLVVASVSLQLGQETDKLKTR  
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>sp|Q8NFF2|NCKX4\_HUMAN Sodium/potassium/calcium exchanger 4 OS=Homo sapiens GN=SLC24A4  
PE=1 SV=2

MALRGTLRPLKVRRRREMLPQQVGFVCAVLALVCCASGLFGSLGHKTASASKRVLPDTWR  
NRKLMAPVNGTQTAKNCTDPAIHEFPTDLFSNKERQHGAVLLHLGALYMFYALAIVCDD  
FFVPSLEKICERLHLSDEVAGATFMAAGSSTPELFASVIGVFITHGDVGVGTIVGSAVFN  
ILCIIGVCGLFAGQVVRLTWWAVCRDSVYYTISVIVLIVFIYDEQIVWWEGLVLIILYVF  
YILIMKYNVKMQAFFTVKQKSIANGNPVNSELEAGNDFYDGSYDDPSVPLLQGVKEKPQY  
GKNPVVMVDEIMSSSPKFTFPEAGLRIMITNKFGPRTLRMASRIIINERQRLINSANG  
VSSKPLQNGRHENIENGNPVENPEDPQQNQEQQPPPPPEPEPEPEADFLSPFSVPEA  
RGDKVKWVFTWPLIFLLCVTIPNCSKPRWEKFFMVTFITATLWIAVFSYIMVWLVTIIGY  
TLGIPDVIMGITFLAAGTSVPDCMASLIVARQGLGDMAVSNTIGSNVFDILVGLGVPWGL  
QTMVVNYGSTVKINSRGLVYSVLLLLGSVALTVLGIHLNKNWRLDRKLGYYVLVLYAIFLC  
FSIMIEFNVTFFVNLMCREDD

>sp|Q96S97|MYADM\_HUMAN Myeloid-associated differentiation marker OS=Homo sapiens GN=MYADM  
PE=1 SV=2

MPVTVTRTTITTTTTSSSGLGSPMIVGSPRALTQPLGLLRLLQLVSTCVAFSLVASVGAW  
TGSMGNWSMFTWCFCSVTLLIILIVELCGLQARFPLSWRNFPITFACYAALFCLSASIIY  
PTTYVQFLSHGRSRDHAIATFFSCIACVAYATEVAWTRARPGEITGYMATVPGLLKVLE  
TFVACIIFAFISDPNLYQHQPALWCVAVYAICFILAAIAILLNLGECTNVLPPIFPSFL  
SGLALLSVLLYATALVLWPLYQFDEKYGGQPRRSRDVSCSRSHAYYVCAWDRRLAVAILT  
AINLLAYVADLVHSAHLVFVKV

>sp|P12524|MYCL\_HUMAN Protein L-Myc OS=Homo sapiens GN=MYCL PE=1 SV=2

MDYDSYQHYFYDYDCGEDFYRSTAPSEDIWKKFELVSPPTSPPWGLPGAGDPAPGIGP  
PEPWPGGCTGDEAESRGHSGKVGWRNYASIIIRDCMWSGFSARERLERAVSDRLAPGAPRG  
NPPKASAAPDCTPSLEAGNPAPAAPCPLGEPKTQACSGSESPDSSENEEIDVVTVEKRQS  
LGIRKPVITITVRADPLDPCMKEHFHISIHQQQHNYAARFPPESCSQEEASERGPQEEVLER  
DAAGEKEDEEDEEIVSPPPVESEAAQSCHPKPVSSDTEDVTKRKNHNFLEKRRNDLRSR  
FLALRDQVPTLASCSKAPKVVILSKALEYLQALVGAEKRMATEKRQLRCRQQQLQKRIAY  
LTGY

>sp|Q99836|MYD88\_HUMAN Myeloid differentiation primary response protein MyD88 OS=Homo  
sapiens GN=MYD88 PE=1 SV=1

MAAGPGAGSAAPVSSTSSLPLAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFEYLE  
IRQLETQADPTGRLLDAWQGRPGASVGRLLLELLTKLGRDDVLLELGPSIEEDCQKYILKQ  
QQEEAEKPLQVAAVDSSVPRTAELAGITTLDPLGHMPERFDAFICYCPSDIQFVQEMIR  
QLEQTNYRLKLCVSDRDVLPGTCVWSIASELIEKRCRRMVVVSDDYLSKECDFQTKFA  
LSLSPGAHQKRLIPIKYKAMKKEFPSILRFITVCDYTNPCTKSFWFTRLAKALSLP

>sp|P13349|MYF5\_HUMAN Myogenic factor 5 OS=Homo sapiens GN=MYF5 PE=2 SV=2

MDVMDGCQFSPSEYFYDGCIPSPGEGFGEFVPRVAAFAGHKAELQGSDEDEHVRAPTG  
HHQAGHCLMWACKACKRKSTTMDRRKAATMRERRRLKKVNQAFETLKRCRTTNPQNRLPK  
VEILRNAIRYIESLQELLREQVENYYSLPGQSCSEPTSPTSNCSDGMPECNSPVWSRKSS  
TFDSIYCPDVSNVYATDKNSLSSLDCLSNIVDRITSSEQPGLPLQDLASLSPVASTDSQP  
ATPGASSSRLIYHVL

>sp|A7E2Y1|MYH7B\_HUMAN Myosin-7B OS=Homo sapiens GN=MYH7B PE=1 SV=3

MMDVSELGESARYLRQGYQEMTKVHTIPWDGKKRVWVPDEQDAYVEAEVKSEATGGRVTV  
ETKDQKVLMVREAELQPMNPPRFDLLEDMMAMTHLNEASVLHNLQRQYARWMIYYSGLF  
CVTINPYKWLPVYTASVVAAYKGKRRSDSPPHIYAVADNAYNDMLNRNQNQSMITGESG  
AGKTVNTRKVIQYFAIVAALGDGPCKKAQFLATKTGGTLEDQII EANPAMEAFGNAKTLR  
NDNSSRFKGKFIIRIHFGPSGKLASADIDSYLLEKSRVIFQLPGRSYHVYQILSGRKPEL  
QDMLLLSMNPYDHFCSQGVITVDNMNDGEELIATDHAMDILGFSVDEKCAKYKIVGALL  
HFGNMKFKQKQREEQAEADGTESADKAAYLMGVSSGDLLKGLLHPRVRVGN EYVTKGQSV  
EQVVFVAVGALAKATYDRLFRWLVSRLNQTLDTKLPRQFFIGVLDIAGFEIFEFN SFEQLC  
INFTEKLQQFFNQHMVLEQE EYKREGIDWVFIDFGDLQPCIDLIEKPLGILSILEEE  
CMFPKASDASFRAKLYDNHAGKSPNFQQPRPDKKRKYQAHFEVVHYAGVVPYSIVGWLEK  
NKDPLNETVVPVIFQKSQNRLLATLYENYAGSCSTEPKSGVKEKRKKAASFQTVSQLHKE  
NLNKLMTNLRATQPHFVRCIVPNENKTPGVMDAFLVLHQLRCNGVLEGIRICRQGFPNRL  
LYTDFRQRYRILNPSAIPDDTFMDSRKATEKLLGSLDL DHTQYQFGHTKVFFKAGLLGVL  
EELRDQRLAKVLTLLQARSRGLMRLEYQRLGGRDALFTIQWNIRAFNAVKNWSWMKLF  
FKMKPLLRSAAEEELAA LRAELRGLRGALAAAEAKRQELEETHVSITQEKNDLALQLQA  
EQDNLADAEERCHLLIKSKVQLEGKVKELSERLEDEEEVNADLAARRR KLEDECTELKKD  
IDDLKLTAKAEKEKQATENKVKNLTEEMAALDESVARLTKEKKALQEAHQALGDLQAE  
EDRVSA LTKAKLRLEQQVEDLECSLEQEKKLRMDTERAKRKLEGD LKLTQESVADAAQDK  
QQLEEKLKKKDELSQLSLRVEDEQLLGAQM QKKIKELQARAELEEELEAERAARARVE  
KQRAEAARELEELSERLEEAGGASAGQREGCRKREAE LGRRLRELEEAALRHEATVAALR  
RKQAEGA AEELGEQVDSLQRVRQKLEKEKSEL RMEVDDLAANVETLTRAKASAEKLCRTYE  
DQLSEAKIKVEELQRQLADASTQRGR LQTESGELSRLLEEKECLISQLSRGKALAAQSLE  
ELRRQLEEE SKAKSALAHAVQALRHDCDLLREQHEEEAEQAELQRLLSKANA EVAQWRS  
KYEADAIQRTEELEEA KKLALRLQEAEEGV EAA NAKCSSLEKAKLRLQTESEDVTLELE  
RATSAAAALDKQRHLERALEERRRQEEEMQRELEAAQRESRGLGT E LFRLRHGHEEALE  
ALETLKRENKNLQEEISDLTDQVSLSGKSIQELEKTKKALEGEKSEIQA ALEEAEGALEL  
EETKTLRIQLELSQVKA EVDRLKLAEKDEECANLRRNHQRAVESLQASLDAETRARNEALR  
LKKKMEGDLNDLELQLGHATRQATEAQAATRLMQAQLKEEQAGRDEEQRLAAELHEQAQA  
LERRASLLAAEELRAALEQGERSRRLAEQELLEATERLNLLHSQNTGLLNQKKKLEAD  
LAQLSGEVEEAAQERREAEKAKKAITDAAMMAEELKKEQD TSAHLERMKKTLEQTVREL  
QARLEEA EQAALRGGKKQVQKLEAKVRELEAE LDAEQKKHAEALKGVRKHERRVKELAYQ  
AEEDRKNLARMQDLVDKLQSKVKSYKRQFEEAEQQANTNLAKYRKAQHELD DAEERADMA  
ETQANKLRARTRDALGPKHKE

>sp|Q8N1T3|MYO1H\_HUMAN Unconventional myosin-Ih OS=Homo sapiens GN=MYO1H PE=1 SV=2

MEGALTARDKVGVD FVLLDAYTSESAFVDNLRKRFSENLIYTYIGTLLVSVN PYQELGI  
YTVSQMELYQGVNFELPPHYAIADNAYRMMCAELNNHFI LISGESGAGKTEASKKILE  
YFAVTCPMTQSLQIARDRLFSNPVLEAFGNARTLRNDNSSRFGKYMDIQFDFQGIPVGG

HIISYLIEKSRVVYQNEGERNFHIFYQLLAGGEEERLSYLGLEDPQLYKYSQGHCAKE  
SSISDKNWDKTVSNAFSVIDFTEADLENLFGIIASVLHLGNIGFEEDDQGCATIPDTHEI  
KWIAKLLGVHPSVLLEALTHRKIEAKTEEVICPLTLELSVYARDAMAKAVYGRFTWLVN  
KINSSLVNKVGQRILDPLLLLTKWTVIGLLDIYGFVFDKNGFEQFCINYCNEKLQQLLI  
ERTLKAEQAEYEMEGIEWEPIKYFNKIICDLVEERHKGIIISILDEECIRPGPATDLSFL  
EKLEEKVKGHAHFETRKLKAGPKGRKRIGWMEFRLLHYAGEVTYCTKGFLEKNNDLLYRHL  
KEVLCKSKNIILRECFLLAELENRRRPPTVGTQFKNLSLLETLSKEPSYIRCIKPN  
RKEPSKFDDFLIRHQIKYLGMEHLRVRRAGFAYRRKYEHLQRYKSLCPDTWPHWHGPP  
AEGVERLIKYGKPEEYKLGKTKIFIRFPRTL FATEDAFESKHLVARIQATYKRCLG  
RREYVKKRQAAIKLEAHWRGALARKAIQRRKWAVRIIRKFIKGFISRNKPLCPDNEEFIV  
FVRKNYILNRYHLPKTVLDSWLRPPGILENASDLLRKM CVRNLVQKYCRGITAERKAM  
MQQKVVTSEIFRGRKDGYESLNQPFVNSRIDEGDINPKVLQLISHEKIQYGVPIKYDR  
KGFARQRQLILTQKAAVVELAKIKKIEYSALKGVSTSNLSDGILVIHVSPEDSKQKG  
DAVLQCGHVFEAVTKLVMLVKKENIVNVVQGSLLQFFISPGKEGTIVFDTGLEEQVYKNKN  
GQLTVSVRRKS

>sp|Q9NQX4|MYO5C\_HUMAN Unconventional myosin-Vc OS=Homo sapiens GN=MYO5C PE=1 SV=2

MAVAELYTQYNRWIPDPPEEVWKSAEIAKDYRVGDKVLRLLEDGTELDYSVNPESLPPL  
RNPDIILVGENDLTALSYLHEPAVLHNLRIIRFAESKLIYTYSGIILVAMNPYKQLPIYGDA  
IIHAYSGQNMGMDFHIFAVAEAYKQMARNNRNQSIIVSGESGAGKTVSARYAMRYFAT  
VSKSGSNAHVEDKVLASNPITEAVGNAKTTRNDNSSRFGKYTEISFDEQNQIIIGANMSTY  
LLEKSRVVFQSENERNYHIFYQLCASAQQSEFKHLKLGSAAEFNYTRMGNTVIEGVNDR  
AEMVETQKTFTLLGFKEDFQMDVFKILAAIHLGNVQITAVGNERSSVSEDDSHLKVFC  
LLGLESGRVAQWLCNRKIVTSSETVVKPMTRPQAVNARDALAKKIYAHLFDFIVERINQA  
LQFSGKQHTFIGVLDIYGFETFDVNSFEQFCINYANEKLQQQFMHVFKLEQEEYMKEDI  
PWTLIDFYDNQPVIDLIEAKMGILELLDEECLLPHGTDENWLQKLYNNFVNRNPLFEKPR  
MSNTSFVIQHFADKVEYKCEGFLEKNRDTVYDMLVEILRASKFHLCANFFQENPTPPSPF  
GSMITVKSQKVIKPNKHFRTTVGSKFRSSLYLLMETLNATTPHYVRCIKPNDEKLPFE  
FDSKRIVQQLRACGVLETIRISAQSYPSRWYIEFYSGYILMTKQELSFSDKKEVCKVV  
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RAALIIQQYFRGQQTVRKAITAVALKEAWAIIIQKHCRGYLVRSYQLIRMATITMQAY  
SRGFLARRRYRKMLEEKAVILQKYARAWLARRRFQSIRRFVLNIQLTYRVQRLQKKLED  
QNKENHGLVEKLTSLAALRAGDVEIKQLEAELEKAATHRRNYEEKGKRYRDAVEEKLAK  
LQKHNSELETQKEQIQLKLQEKTEELKEKMDNLTKQLFDDVQKEERQRMLEKSFELKTQ  
DYEKQIQSLKEEIKALKDEKMLQHLVEGEHVTSDGLKAEVARLSKQVKTISEFEKEIEL  
LQAQKIDVEKHVQSQKREMREKMEITKQLLESYDIEDVRSRLSVEDEHLNEDGELWFA  
YEGKKATRVLESHFQSQKDCYEKEIEALNFKVVHLSQEIHLQKLFREENDINESIRHE  
VTRLTSENMMIPDFKQQISELEKQKQDLEIRLNEQAEMKMGKLEELSNQLHRSQEEGTQ  
RKALEAQNEIHTKEKEKLIDKIQEMQEASDHLKKQFETESVVCNFRQEASRLTLENRDL  
EEELDMKDRVIKKLQDQVKTLSKTIGKANDVHSSSGPKEYLGMLQYKREDEAKLIQNLIL  
DLKPRGVVVNMIPGLPAHILFMCVRYADSLNDANMLKSLMNSTINGIKQVVKHELEDFEM  
LSFWLSNTCHFLNCLKQYSGEEEFMKHNSPQQNKNCLNFDLSEYRQILSDVAIRIYHQF  
IIIMEKNIQPIIVPGMLEYESLQGISGLKPTGFRKRSSSIDDTDGYTMTSVLQQLSYFYT  
TMCQNGLDPELVRQAVKQLFFLIGAVTLNSLFLRKDMCSCRKGMQIRCNISYLEEWLKD  
NLQNSLAKETLEPLSQAAWLLQVKKTTDSADKEIYERCTSLSAVQIIKILNSYTPIDDFE

KRVTPSFVRKVQALLNSREDSSQLMLDTKYLFQVTFPFTPSPHALEMIQIPSSFKLGFLN  
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>sp|Q9UM54|MYO6\_HUMAN Unconventional myosin-VI OS=Homo sapiens GN=MYO6 PE=1 SV=4

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GTRPPHVFAIADKAFRDMKVLKMSQSIIVSGESGAGKTENTKFVLRYLTESYGTGQDIDD  
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EAKRKQEEEEERKKREDEKRIQAEVEAQLARQKEEESQQQAVLEQERRDRELALRIQSE  
AELISDEAQADLALRRSLDYPVSKNDGTRPKMTPEQMAKEMSEFLSRGPAVLATKAAAG  
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KSVTDYDFAPFLNNSPQQNPAAQIPARQREIEMNRQQRFFRIPFIRPADQYKDPQSKKKG  
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>sp|Q99972|MYOC\_HUMAN Myocilin OS=Homo sapiens GN=MYOC PE=1 SV=2

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GDTGCGELVWVGEPLTLRTAETITGKYGVWMDPKPTYPTQETTWRIDTVGTDVRQVFE  
YDLISQFMQGYPSKVHILPRPLESTGAVVYSGSLYFQGAESRTVIRYELNTETVKAKEI  
PGAGYHGQFPYSWGGYTDIDLAVDEAGLWVIYSTDEAKGAIVLSKLNPNLELEQTWETN  
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>sp|P52179|MYOM1\_HUMAN Myomesin-1 OS=Homo sapiens GN=MYOM1 PE=1 SV=2

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GKKAK

>sp|Q5VTT5|MYOM3\_HUMAN Myomesin-3 OS=Homo sapiens GN=MYOM3 PE=2 SV=1

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QRLKTLAIIIEKNRAKVVRGLPDVATIMEDKTLCLTCIVSGDPTPEISWLKNDQPVTFLDR  
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>sp|Q5VU43|MYOME\_HUMAN Myomegalin OS=Homo sapiens GN=PDE4DIP PE=1 SV=1  
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SLAAQERLVEQLSREKQQLHLLEEPTSMEVQPMTEELLKQKLNSETTITQQSVSDSH  
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LIQRVSQLEAQLPKNGLEEKLAELRSASWPCKYDSL IQDQARELSYLRQKIREGRGICY  
LITRHKD TVKSFEDLLRSNDIDYYLGQSFREQLAQGSQ LTERLTSKLSKDHKSEKDQA  
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SDMDIVSEYTHYEEKKASPSHSDSIHSSHS AVLSSKPSSTSASQGAKAESNSNPISLPT  
PQNTPKEANQAHS GFHFHSIPKLASLPQAPLPSAPSSFLPFSPTGPLLLGCCETPVVSLA  
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EPGYLGSSGKWDVMRPQKGSVSGDLSSGSSVYQLNSKPTGADLLEEHLGEIRNLRQRLEE  
SICINDRLREQLHRLTSTARGRGSTSNFYSGLESIPQLCNENRVLREDNRRLQAQLSH  
VSREHSQETESLREALSSRSHLQELEKELEHQKVERQQLEDLREKQQEVLFREERLS  
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GNKQLLLQDSAVSPPVRDVGMNSPALVFPSSASSTPGSETPIINRANGLGLDTS PVMKTP  
PKLEGDATDGSFANKHGRHVI GHIDDYSALRQQIAEGKLLVKKIVSLVRSACSFPGLEAQ  
GTEVLGSKGIHELRSSTSALHHALEESASLLTMFWRAALPSTHIPVLPKVGESTERELL  
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PCTPAL  
>sp|Q8TDC0|MYOZ3\_HUMAN Myozenin-3 OS=Homo sapiens GN=MYOZ3 PE=1 SV=2

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EGAHPAAAAPAGCVPSPSALAPGYAEPLKGVPPPEKFNHTAISKGYRCPWQEFVSYRDYQSD  
GRSHTPSPNDYRNFNKTPVPFGGPLVGGTFPRPGTPFIFEPLSGLELLRLRPSFNRVAQG  
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>sp|P25189|MYPO\_HUMAN Myelin protein P0 OS=Homo sapiens GN=MPZ PE=1 SV=1

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DISFTWRYQPEGGRDAISIFHYAKGPYIDEVGTFKERIQWVGDPRWKDGSIHNLDS  
DNGTFTCDVKNPPDIVGKTSQVTLYVFEKVPTRYGVVLGAVIGGVLGVLLLLLLFYVVR  
YCWLRQAALQRRLSAMEKGLHKPGKDASKRGRQTPVLYAMLHRSSTKAVSEKKAKGL  
GESRKDKK

>sp|Q00872|MYPC1\_HUMAN Myosin-binding protein C, slow-type OS=Homo sapiens GN=MYBPC1 PE=1 SV=2

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RVYTFEMQIIKAKDNFAGNYRCEVYKDKFDCSFDLEVHESTGTTNIDIRSAFKRSGE  
GQEDAGELDFSGLLKRREVKQQUEEPQVDVWELLKNAKPSEYEKIAFQYGITDLRGMLKR  
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QSSAKLSVDLKLPLIL TPLTDQT VNLGKEICLKCEISENIPGKWTKNGLPVQESDRLKVV  
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NKLRL EIPISGEPPPKAMWSRGDKAIMEGSGRIRTESYPDSSTLVIDIAERDDSGVYHIN  
LKNEAGEAHASIKVKVDFDPPVAPT VTEVGDDWCIMNWEPPAYDGGSPILGYFIERKK  
KQSSRWMLNFDLCKETT FEPKKMIEGVAYEVRIFAVNAIGISKPSMPSRPFVPLAVTSP  
PTLLTVDSVTDTTVMRWRPPDHIGAAGLDGYVLEYCFEGSTSAKQSDENGEAAYDLPAE  
DWIVANKDLIDKTKFTITGLPTDAKIFVRVKAVNAAGASEPKYYSQPILVKEIIEPPKIR  
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AERSHSGKYDLQVKVDKFVETASIDIQIIDRPGPPQIVKIEDVWGENVALTWTPPKDDGN  
AAITGYTIQKADKKSM EWFTVIEHYHRTSATITELVIGNEYFRVFSENMCGLSEDATMT  
KESAVIARDGKIYNPVYEDFDFSEAPMFTQPLVNTYAIAGYNATLNC SVRGNPKPKITW  
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Q

>sp|Q14896|MYPC3\_HUMAN Myosin-binding protein C, cardiac-type OS=Homo sapiens GN=MYBPC3 PE=1 SV=4

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PAPAAELGESAPSPKGSSAALNGPTPGAPDDPIGLFVMRPQDGEVTVGGSITFSARVAG  
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QEKKLEVYQSIADLMVGAKDQAVFKCEVSDENVRGVWLKNGKELVPDSRIKVS HIGRVHK  
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VVAGNKLRLDVPISGDPAPTVIWQKAITQGNKAPARPAPDAPEDTGDSEWVFDKLLCE  
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SQNMVGFSDRAATTKEPVFIPRPGITYEPPNYKALDFSEAPSFTQPLVNRSVIAGYTAML  
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>sp|Q9BZM6|N2DL1\_HUMAN NKG2D ligand 1 OS=Homo sapiens GN=ULBP1 PE=1 SV=1  
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LQARMSCEHEAHGHGRGSWQFLFNGQKFLFDSSNNRKWTALHPGAKKMTKEKWEKNRDVTM  
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LAGR

>sp|Q8TD07|N2DL4\_HUMAN NKG2D ligand 4 OS=Homo sapiens GN=RAET1E PE=1 SV=1  
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FLQYNSDNNMVKPLGLLGKKVYATSTWGELTQTLGEVGRDLRMLLCDIKPQIKTSDPSTL  
QVEMFCQREAERCTGASWQFATNGEKSLLFDAMNMTWTVINHEASKIKETWKKDRGLEKY  
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>sp|Q9H1M0|N62CL\_HUMAN Nucleoporin-62 C-terminal-like protein OS=Homo sapiens GN=NUP62CL  
PE=1 SV=3  
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SAEF

>sp|Q14CX7|NAA25\_HUMAN N-alpha-acetyltransferase 25, NatB auxiliary subunit OS=Homo  
sapiens GN=NAA25 PE=1 SV=1  
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TRLLGLYHTMDKNQKLSVVRELMLRYQHGLEFGKTC LKTELQFSDYYCLLAVHALIDVWR  
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>sp|Q15742|NAB2\_HUMAN NGFI-A-binding protein 2 OS=Homo sapiens GN=NAB2 PE=1 SV=1

MHRAPSPTAEQPPGGDSARRTLQPRPKPSARAMALPRTLGLQLYRVLQRANLLSYET  
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PVSSIPLFKISETAGTRKGSMSNGHSGPGEKAGSARSFSPKSPELGEKLSPLPGPGAG  
DPRIWGRSTPESDVAGGEEEEAGSPFSPAGGGVPEGTGAGGLAAGGTGGGPDRLEPE  
MVRMVESVERIFRSFPRGDAGEVTSLLKLNKKLARSVGHIFEMDDNDSQKEEIRKYSI  
IYGRFDSKRREGKQLSLHELTINEAAQFCMRDNTLLRRVELFSLSRQVARESTYLSL  
KGSRLHPEELGGPPLKCLKQEVGEQSHPEIQPPPGPESYVPPYRPSLEEDSASLSGESL  
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CVPAPKPLAEFEGLLDRCPPAGPHPALVEGRRSSVKVEAEASRQ

>sp|Q9H009|NACA2\_HUMAN Nascent polypeptide-associated complex subunit alpha-2 OS=Homo sapiens GN=NACA2 PE=1 SV=1

MPGEATETVPATEQELPQSQAETGSGTASDSGESVPGIEEQDSTQTTTQKAWLVAAEID  
EEPVGKAKQSRSEKRARKAMSKLGLLQVTGVTRVTIWKSKNILFVITKLDVYKSPASDAY  
IVFGEAKIQDLSQQAQLAAAEKFRVQGEAVGNIQENTQTPTVQEESEEEVDETGVVEKD  
VKLVMSQANVSRAKAVRALKNNSNDIVNAIMELTV

>sp|Q96BF6|NACC2\_HUMAN Nucleus accumbens-associated protein 2 OS=Homo sapiens GN=NACC2 PE=1 SV=1

MSQMLHIEIPNFGNTVLGCLNEQRLGLGYCDVSIVVKGQAFKAHRAVLAASSLYFRDLFS  
GNSKSFAFELPGSVPPACFQQILSFCYTGRLTMTASEQLVVMYTAGFLQIQHIVERGTDLM  
FKVSSPHCDSQTAVIEDAGSEPQSPCNQLQPAAAAAAPYVVSVPVPIPLLTRVKHEAMEL  
PPAGPGLAPKRPLETGPRDGVAVAAGAAVAGTAPLKLPRVSYYGVP SLATLIPGIQQMP  
YPQGERTSPGASSLPTDSPTSYPHNEEDEDEAYDTMVVEEQYQMYIKASGSYAVQEK  
EPVPLESRSCVLIRRD LVALPASLISQIGYRCHPKLYSEGDPGEKLELVAGSGVYITRGQ  
LMNCHLCAGVKHKVLLRRLATFFDRNTLANSCGTGIRSSSTDPSRKPLDSRVLNAV KLY  
CQNFAFSFKESEMNVAADMCTNARRVRKRWLPKIKSMLPEGVEMYRTVMGSAAASVPLD  
PEFPPAAAQVFEQRIYAERRGDAATIVALRTDAVNVDLSAAANPAFDAGEEVDGAGSVIQ  
EVAAPPEPLPADGQSPQPFEQGGGSPSRPQTAAAAARRPEGTYAGTL

>sp|Q9BZK3|NACP1\_HUMAN Putative nascent polypeptide-associated complex subunit alpha-like protein OS=Homo sapiens GN=NACP1 PE=5 SV=1

MPGEATETVPAIEQQLLPQAETGSGTESDSDESVPLEEQDSTQVTAQVQLVAAEIDE  
EPVSKAKQRRSEKKARKARFKLGLQQVTGVTRVTIRKSKNILFVITKPDVYKSPASDTYM  
VFGEAKIEDLSQEAQLAAAEKFKVQGEAVSNIQENTQTPTVQEGSEDEEVDGVEIKDI  
ELVLSQANVWGAKAVRALKNSNDIVNAIMELTM

>sp|Q6IA69|NADE\_HUMAN Glutamine-dependent NAD(+) synthetase OS=Homo sapiens GN=NADSYN1 PE=1 SV=3

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DTLLHSFQVLAALVESPVTDIICDVGMPVMHRNVRYNCRVIFLNRKILLIRPKMALANE

GNYRELRFWTPWSRSRHTTEYFLPRMIQDLTKQETVPFGDAVLVTWDTTCIGSEICEELWT  
PHSPHIDMGLDGVEIITNASGSHQVLRKANTRVDLVTMVTSKNGGIYLLANQKGCDDRL  
YYDGCAMIAMNGSVFAQGSQFSLDDVEVLTATLDLEDVRSYRAEISSRNLAASRASPYPR  
VKVDFALSCHEDLLAPISEPIEWKYHSPEEEISLGPACWLWDFLRRSQAGFLLPLSGGV  
DSAATACLIYSMCCQVCEAVRSGNEEVLADVRTIVNQISYTPQDPRDLCGRILTTCYMAS  
KNSSQETCTRARELAQQIGSHHISLNIDPAVKAVMGIFSLVTGKSPLFAAHGGSSRENLA  
LQNVQARIRMLVAYLFAQLSLWSRGVHGGLLVLGSANDESLLGYLTKYDCSSADINPIG  
GISKTDLRAFVQFCIQRFQLPALQSILLAPATAELEPLADGQVSQTDEEDMGMTYAELSV  
YGKLRKVAKMGPYSMFCKLLGMWRHICTPRQVADKVKRFFSKYSMNRHKMTTLTPAYHAE  
NYSPEDNRFDLRPFLYNTSWPWQFRCIENQVLQLERAEPQSLDGVD

>sp|P61601|NCALD\_HUMAN Neurocalcin-delta OS=Homo sapiens GN=NCALD PE=1 SV=2

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ASKFAEHVFRFTDANGDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLDGNGYISKAE  
MLEIVQAIYKMSVSMKMPEDESTPEKRTEKIFRQMDTNRDGKLSLEEFIRGAKS DPSIV  
RLLQCDPSSAGQF

>sp|Q9UBB6|NCDN\_HUMAN Neurochondrin OS=Homo sapiens GN=NCDN PE=1 SV=1

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KAVKAGDIDAKTRRRIFDAVGFTFPNRLTTKEAPDGC PDHVLRALGVALLACFCSDPEL  
AAHPQVLNKIPILSTFLTARGDPDDAARRSMIDDTYQCLTAVAGTPRGPRHLIAGGTVSA  
LCQAYLGHHYGFQALALLVGLAAAETQCWKEAEPDLLAVLRGLSEDFQAEDASKFEL  
CQLPLFLPPTTPPECYRDLQAGLARILGSKLSSWQRNPALKLAARLAHACGSDWIPAG  
SSGSKFLALLVNLACVEVRLALEETGTEVKEDVVTACYALMELGIECTRCEQSLLKEPQ  
KVQLVSVMEKAIGAVIHYLLQVGSEKQKEPFV FASVRILGAWLAEETSSLRKEVCQLLPF  
LVRYAKTLYEEAEEANDLSQQVANLAISPTTPGPTWPGDALRLLLPGWCHLTVEDGPREI  
LIKEGAPSLCKYFLQQWELTSPGHDTSVLPDSVEIGLQTCCHIFLNLVVTAPGLIKRDA  
CFTSLMNTLMTSLPALVQQGRLLLAANVATLGLLMARLLSTSPALQGT PASRGFFAAAI  
LFLSQSHVARATPGSDQAVLALSPEYEGIWADLQELWFLGMQAFTGCVPLLPWLAPAALR  
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ALEQCLSEP

>sp|O14513|NCKP5\_HUMAN Nck-associated protein 5 OS=Homo sapiens GN=NCKAP5 PE=1 SV=2

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AQRTSEGAMHEKLIHELEERHLRLQSEKRLQEVTLSEERNRIQMRS LQQQFSRMEETVR  
NLLSQSGSPEQKKEETVNIMVYQEKLSSEERKHKEALEDLHMVVEDSRSESSSTDEGKE  
KTKLLLERLKALEAENSALALENENQREQYERCLDEVANQVQALLTQKDLREECVKLKT  
RVFDLEQQNRTLSILFQQRV RPTSDLLQKLHSRLDLSSGDLLSEVERNRLTQSRTDA  
EVHEHQLNTKSALKCPGLGAVIPGHLCP RNSSSSSELSSTCSEYSSGSSYTWHDGKN  
LRKRQSSQNWDKRLSIDSSLPSGFASPTNELPPTRIKESHILEGLRKLQKRKV LLEPPSV  
ITKWGYKDCMNSNEGIYSPGIKSSSLKEYPPCKTADLGSPCKEPHKTFVYDLDSHVDADD  
DPSTLALLQAVPNQSCRPHGSKLTHSVSDSLFGWETNRKHFLEGTSSVYPKERPEKLTSC  
ASSCPLMKLCPSVQTPQVQRE RGPQGQGHGRMALNLQLSDTDDNETFDELHIESSDEKS  
PSDVS LAADTDKSVENLDVLVGFGKSLCGSP EEEEEKQVPIPSETRPKTFSFIKQQRVVKR  
TSSEECVTVIFDAEDGEPIEFSSHQTGVVTVTRNEISINSTPAGPKAEHTELLPQGIACL  
QPRAAARDYTFFKRSEEDTEKNIPKDNVDNVPRVSTESFSSRTVTQNPQQQKLVKPTHNI  
SCQSNSRSSAPMGIYQKQNLTKIPPRGKSSPQSKLMEPEATTLLPSSGLVTLEKSPALA

PGKLSRFMKTESSGPLFELRSDPHIPKHSAPLPHSSRMPSRRDWWQCPKSQTPGSRSRPA  
IESSDSGEPPTRDEHCGSGPEAGVKSPSPPPPPGRSVSLLARPSYDYSAPSSTKSETRV  
PSETARTPFKSPLLKGISAPVISSNPATTEVQRKKPSVAFKKPIFTHPMPSPEAVIQTRC  
PAHAPSSSFTVMALGPPKVSPPKRGVPKTSPRQTLGTPQRDIGLQTPRISPSTHEPLEMTS  
SKSVSPGRKGQLNDSASTPPKPSFLGVNESPSSQVSSSSSSSSPAKSHNSPHGCQSAHEK  
GLKTRLPVGLKVLKSPQLLRKSSTVPGKHEKDSLNEASKSSVAVNKSKEPDSKNPASME  
ITAGERNVTLPDSQAQGSGLADGLPLETALQEPLESSIPGSDGRDGVNDRSMRRSLSSSKP  
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SSPNKAPSAPMLESLPSVGRPSGHPSSGKSLGSSGSFSSQHGSPLPLRIPPKEGLL  
IPPGKEDQQAFTQGECPSANVAVLGEPSDRRSCPPTPTDCPEALQSPGRTQHPSTFETS  
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KPGPSFASWFGFRKSRLPALSSRKMDISKTKVEKKDAKVLGFGNRQLKSERKKEKKKPEL  
QCETENELIKDTKSADNPDGGLQSKNNRRTPDIIYNQLKIEPRNRHSPVACSTKDTFMTE  
LLNRVDKKAAPQTESGSSNASCRNVLKGSQGSCLIGSSIISTQGNHKKNMKIKADMEVPK  
DSLVEANENLQEDDDAVADSVFQSHIIESNCQMRTLDSGIGTFPLPDSGNRSTGRYLC  
QPDSPEDAEPLLPQSALSAVSSMRAQTLEREVPSSTDGQRPADSAIVHSTSDPIMTARG  
MRPLQSRLPKPASSGKVSSQKQNEAEP RPQTCSFQYAE DPMASQPLPDWGSEVAATGTQ  
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>sp|Q6J4K2|NCKX6\_HUMAN Sodium/potassium/calcium exchanger 6, mitochondrial OS=Homo sapiens GN=SLC8B1 PE=1 SV=2

MAGRRLNLRWALSVL CVLLMAETVSGTRGSSTGAHISPQFPASGVNQTPVVD CRKVCGLN  
VSDRCDFIRTNPDCHSDGGYLDYLEGIFCHFPPSLLPLAVTLVSWLLYFLILGVTA AK  
FFCPNLSAISTTLKLSHNVAGVTFLAFGNGAPDIFSALVAFSDPHTAGLALGALFGAGVL  
VTTVVAGGITILHPFMAASRPFFRDIVFYMVAVFLTFLMLFRGRVTLAWALGYLG L YV FY  
VVTVILCTWIYQRRGSLFCMPVTPEILSDSEEDRVSSNTNSYDYGDEYRPLFFYQET  
TAQILVRALNPLDYMKWRRKSAYWKALKVFKLPVEFLLLLTVPVVDPKDDQNWKRPLNC  
LHLVISPLVVVLTLQSGTYGVYEIGGLVPVWVVVVIAGTALASVTFFATSDSQPPRLHWL  
FAFLGFLT SALWINAATEVVNILRSLGVVFRLSNTVLGLTLLAWGNSIGDAFSDFTLAR  
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>sp|Q15788|NCOA1\_HUMAN Nuclear receptor coactivator 1 OS=Homo sapiens GN=NCOA1 PE=1 SV=3

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SVKPKCKILKKTVDQIQLMKRMEQE KSTDDDVQKSDISSSSQGVIEKESLGPL LLEAL  
DGFFVVNCEGRIVFVSENVTSYLGYNQEELMNTSVYSILHVGDHAEFVKNLLPKSLVNG  
VPWPQEATRNSHTFNCRMLIHPPDEPGTENQEACQRYEVMQCFTVSQPKSIQEDGEDFQ  
SCLICIARRLPRPPAITGVESFMTKQDTTGKIIISIDTSSLRAAGRTGWEDLVRKCIYAFF  
QPQGREPSYARQLFQEVMTRG TASSPSYRFILNDGTMLSAHTKCKLCYPQSPDMQPFIMG  
IHIIDREHSGLS PQDDTNSGMSIPRVNPSVNPSISPAHGVARSS TLPPSNMVMSTRINR  
QQSSDLHSSSHSNSSNSQGSFGCSPGSQIVANVALNQGQASSQSSNPSLNLNNSPMEGTG  
ISLAQFMSPRRQVTSGLATRPRMPNNSFPPNISTLSSPVGMTSSACNNNNRSYSNIPVTS  
LQGMNEGPNN SVGFSASSPVLRQMSSQNSPSRLNIQPAKAESKDNKEIASILNEMIQSDN  
SSSDGKPLDSGLLHNNDR LSDGDSKYSQTS HKLVQLLTTTAEQQLRHADIDTSCKDVLSC  
TGTSNSASANSSGGSCPSHSSSLTERHKILHRL LQEGSPSDITTL SVEPDKKDSASTSVS  
VTGQVQGNSSIKLELDASKKKESKDHQLLRYLLDKDEKDLRSTPNLSLDDVKVKEKKEQ

MDPCNTNPTMTKPTPEEIKLEAQSQFTADLDQFDQLLPTLEKAAQLPGLCETDRMDGAV  
TSVTIKSEILPASLQSATARPTSRLNRLPELELEAIDNQFGQPGTGDQIPWTNNTVTAIN  
QSKSEDCQISSQLDELLCPPTTVEGRNDEKALLEQLVSFSLSGKDETELAELDRLGIDKL  
VQGGGLDVLSERFPPQATPPLIMEERPNIYSQPYSSPSPTANLPSPFQGMVRQKPSLGT  
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GNNLPPSSGLPVQMGNPRLPQGAPQQFPYPPNYGTNPGTPPASTSPFSQLAANPEASLAN  
RNSMVSRGMTGNIGGFQGTGINPQMQQNVFQYPGAGMVPQGEANFAPSLSPGSSMVPMP  
PPPQSSLLQQTTPASGYQSPDMKAWQGAIGNNNVFSQAVQNQPTPAQPGVYNNMSITVS  
MAGGNTNVQNMNPMMAQMMSLQMPGMNTVCPEQINDPALRHTGLYCNQLSSTDLLKTE  
ADGTQQVQVQVFADVQCTVNLVGGDPYLNQPGPLGTQKPTSGPQTPQAQQKSLLQQLLT  
E

>sp|Q8NI08|NCOA7\_HUMAN Nuclear receptor coactivator 7 OS=Homo sapiens GN=NCOA7 PE=1 SV=2

MDTKEEKKERKQSYFARLKKKKQAKQNAETASAVATRHTGKEDNNTVVLEPDKCNIAVE  
EYMTDEKKKRKSNLKEIRRTTELKRYYSIDDNQNKTHDKKEKMMVVQKPHGTMEYTAGN  
QDTLNSIALKFNITPNKLVELNKLFTHTIVPGQVLFVPDANSPSSTLRLSSSSPGATVSP  
SSSDAEYDKLPDADLARKALKPIERVLSSTSEDEPGVVKFLKMNCRYFTDGKGVVGGVM  
IVTPNNIMFDPHKSPLVIENGCEEYGLICPMEEVVSIALYNDISHMKIKDALPSDLPQD  
LCPLYRPGEWEDLASEKDINPFSKFKSINKEKRQQNGEKIMTSDSRPIVPLEKSTGHTPT  
KPSGSSVSEKLLKLDSSRETSHGSPTVTKLSKEPSDTSSAFESTAKENFLGEDDDFVDLE  
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ALDLETCEKQDIMPEVDKQSGSPESRVENTLNIHEDLDKVKLIEYYLTKNKEGPQVSENL  
QKTELSDGKSIIEGGIDITLSSSLSQAGDPITEGNKEPDKTWVKKGEPLPVKLSNSTEAN  
VIKEALDSSLESTLDNSCQGAQMDNKSEVQLWLLKRIQVPIEDILPSKEEKSKTPPMFLC  
IKVGKPMRKSFATHAAMVQQYKRRKQPEYWFAVPRERVDHLYTFFVQWSPDVYKDAK  
EQGFVVVEKEELNMIDNFFSEPTTKSWEIITVEEAKRRKSTCSYIEDEDEEVLPLRPHS  
ALLENMHIEQLARRLPARVQGYPWRLAYSTLEHGTSLKTLYRKASLDSPLLVIKMDN  
QIFGAYATHPFKFSDDHYGTGETFLYTFSPHFVKVFKWGENSYFINGDISSLELGGGGGR  
FGLWLDADLYHGRSNCSTFNNDILSKKEDFIVQDLEVWAFD

>sp|075376|NCOR1\_HUMAN Nuclear receptor corepressor 1 OS=Homo sapiens GN=NCOR1 PE=1 SV=2

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RVSAAVLPLVHPLPEGLRASADAKKDPAFGGKHEAPSSPISGQPCGDDQNASPSKLSKEE  
LIQSMDRVREIAKVEQQILKLKKKQQQLEEEAAKPPEPEKPVSPPPVEQKHSIVQIIY  
DENRKAEEAHKIFEGLGPKVELPLYNQPSDTKVYHENIKTNQVMRKKLILFFKRRNHAR  
KQREQKICQRYDQLMEAWKVDRIENNPRRKAKESKTREYYEKQFPEIRKQREQQERFQ  
RVGQRGAGLSATIARSEHEISEIIDGLSEQENNEKQMRQLSVIPPMFDAEQRRVKFINM  
NGLMEDPMKVYKDRQFMNVWTDHEKEIFKDKFIQHPKNFGLIASYLERKSVPCVLYYL  
TKKNENYKALVRRNYGKRRGRNQIARPSQEEKVEEKEEDKAEKTEKKEEEKKDEEEKDE  
KEDSKENTKEKDKIDGTAEEETEEREQATPRGRKTANSQGRRKGRI TRSMTNEAAAASAAA  
AAATEEPPPLPPPPEPISTEPVETSRWTEEEEMEVAKKGLVEHGRNWAAIAKMVGTKSEA  
QCKNFYFNYKRRHNLNLLQQHKQKTSRKPREERDVSCQESVASTVSAQEDEDIEASNEE  
ENPEDSEVEAVKPSDSPENATSRGNTEPAVELEPTTETAPSTSPSLAVPSTKPAEDES  
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TKERDLDRASEKVEPRDEDLVVAQQINAQRPEPQSDNDSSATCSADEVDGEPERQRMFP  
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GVRLPTTRPTRPPPPLIPSSKTTVASEKPSFIMGGSISQGTPTGYLTSHNQASYTQETPK  
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EGSITRGTPTSKISVESIPSLRGSITQGTPALPQTGIPTEALVKGSISRMPIEDSSPEKG  
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ESPPIRAFEGAITKGKPYDGITTIKEMGRSIEIIPRQDILTQESRKTPEVVQSTRPIEG  
SISQGTPTIKFDNNSGQSAIKHNKSLITGPSKLSRGMPPLEIVPENIKVVERGKYEDVKA  
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DHGVMSQPMGVVPGTANTSVVTSGETRREEDPSPHSGGVCKPKLISKNSRKS KSPIP  
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>sp|Q9Y618|NCOR2\_HUMAN Nuclear receptor corepressor 2 OS=Homo sapiens GN=NCOR2 PE=1 SV=2

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REITMVEQQISKLKKKQQQLEEEAAKPPEPEKPVSPPIESKHRSLVQI IYDENRKKAEA  
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RYDQLMEAWKKVERIENPRRRAKESKVREYYEKQFPEIRKQRELQERMQSRVGQRGSG  
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SRLDRGREDSLPKGHVIYEGKKGHVLSYEGGMSVTQCSKEDGRSSSGPPHETAAPKRTYD  
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REAKLLKREGTPPPPPSRDLTEAYKTQALGPLKLKPAHEGLVATVKEAGRSIHEIPREE  
LRHTEPLPLAPRPLKEGSITQGTPLKYDTGASTTGSKKH DVRSLIGSPGRTFPPVHPLDV  
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HLPRGSPVTTRETPRLQEGSLSSSKASQDRKLTSTPREIAKSPHSTVPEHHHPHISPYE  
HLLRGVSGVDLYRSHIPLAFDPTSIPRGIPLDAAAAYYLPRLAPNPTYPHLYPPYLIRG  
YPTAALENRQTIINDYITSQQMHNAATAMAQRADMLRGLSPRESSLALNYAAGPRGII  
DLSQVPHLPVLVPPTPGTPATAMDRLAYLPTAPQPFSSRHSSSPLSPGGPHTLTKPTTS  
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SHSHAHQHSPISPRTQDALQQRPSVLHNTGMKGII TAVEPSTPTVLRSTSTSSPVRPAAT  
FPPATHCPLGGTLDGVYPTLMEPVLLPKEAPRVARPERPRADTGHAF LAKPPARSGLEPA  
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>sp|Q9GZM8|NDEL1\_HUMAN Nuclear distribution protein nudE-like 1 OS=Homo sapiens GN=NDEL1  
PE=1 SV=1

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ANDDLERAKRATIVSLED FEQRLNQAIERNAFLESELDEKESLLVSVQRLKDEARDLRQE  
LAVRERQQEVTRKSAPSSPTLDCEKMDSAVQASLSLPATPVGKG TENTFPSPKAIPNGFG  
TSPLTPSARISALNIVGDL LRKVGALSKLAACRNFAKDQASRSYISGNVNCGV L NNG  
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>sp|Q9HD90|NDF4\_HUMAN Neurogenic differentiation factor 4 OS=Homo sapiens GN=NEUROD4 PE=2  
SV=2

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QKLSKIETLRLARNYI WALSEVLETGQTPEGKGFVEMLCGLSQPTSNLVAGCLQLGPQS  
VLLEKHEDKSPICDS AISVHNFNYSQGPLSPPPYGHMETHLLHLKPQVFKSLGESSFGSH  
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>sp|Q9Y5B8|NDK7\_HUMAN Nucleoside diphosphate kinase 7 OS=Homo sapiens GN=NME7 PE=1 SV=1

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SGVARTDASESIRALFGTDGIRNAAHGPD SFASAAREMELFFPSSGGCGPANTAKFTNCT  
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>sp|Q13203|MYBPH\_HUMAN Myosin-binding protein H OS=Homo sapiens GN=MYBPH PE=1 SV=4

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>sp|Q8IZQ8|MYCD\_HUMAN Myocardin OS=Homo sapiens GN=MYOCD PE=1 SV=1

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>sp|Q8N699|MYCT1\_HUMAN Myc target protein 1 OS=Homo sapiens GN=MYCT1 PE=1 SV=1

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>sp|P35749|MYH11\_HUMAN Myosin-11 OS=Homo sapiens GN=MYH11 PE=1 SV=3

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>sp|P12882|MYH1\_HUMAN Myosin-1 OS=Homo sapiens GN=MYH1 PE=1 SV=3

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>sp|P11055|MYH3\_HUMAN Myosin-3 OS=Homo sapiens GN=MYH3 PE=1 SV=3

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SNLRTHPHFVRCIIPNETKTPGAMEHSLVLHQLRCNGVLEGIRICRKGFPNRILY GDFK  
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>sp|P13533|MYH6\_HUMAN Myosin-6 OS=Homo sapiens GN=MYH6 PE=1 SV=5

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>sp|P13535|MYH8\_HUMAN Myosin-8 OS=Homo sapiens GN=MYH8 PE=1 SV=3

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DAIQRTEELEAAKKLAQRLQEAEEHVEAVNAKCASLEKTKQRLQNEVEDLMLDVERSNA  
ACAALDKKQRNFDKVLSEWKQKYEETQAELEASQKESRSLSTELFKVKNVYEEESLDQLET  
LRRENKNLQQEISDLTEQIAEGGKQIHELEKIKKQVEQEKCEIQAALAEAEASLEHEEGK  
ILRIQLELNQVKSEVDRKIAEKDEEIDQLKRNHTRVVETMQSTLDAEIRSRNDALRVKKK  
MEGDLNEMEIQLNHNRLAAESLRNYRNTQGILKETQLHLDDALRGQEDLKEQLAIVERR  
ANLLQAEIEELWATLEQTERSRIAEQELLDASERVQLLHTQNTSLINTKKKLENDVSQL  
QSEVEEVIQESRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKNLEQTVKDLQHRL  
DEAEQLALKGGKKQIQKLEARVRELEGEVENEQKRNAEAVKGLRKHERRVKELTYQTEED  
RKNVLRQLDLVDKLQAKVKSQRQAEEAEEQSNANLSKFRKLQHELEEAERADIAESQV  
NKL RVKSREVHTKISAE

>sp|P08590|MYL3\_HUMAN Myosin light chain 3 OS=Homo sapiens GN=MYL3 PE=1 SV=3  
MAPKKPEPKDDAKAAPKAAPAPAPPPEPERPKEVEFDASKIKIEFTPEQIEEFKEAFML  
FDRTPKCEMKITYGQCGDVLRLALGQNPTQAEVLRVLGKPRQEELNTKMMDFETFLPMLQH  
ISKNKDTGTYEDFVEGLRVFDKEGNGTVMGAELRHVLATLGERLTEDEVEKLMAGQEDSN  
GCINYEAFVKHIMSS

>sp|P14649|MYL6B\_HUMAN Myosin light chain 6B OS=Homo sapiens GN=MYL6B PE=1 SV=1  
MPPKKDVPVKKPAGPSISKPAAKPAAAGAPPAKTAEPAPVQAPQKTQEPPVDLSKVVIE  
FNKDQLEEFKEAFELFDRVGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDELKSR  
RVDFETFLPMLQAVAKNRGQGTIEDYLEGFRVFDKEGNGKVMGAELRHVLTTLGEKMTEE  
EVETVLGHEDSNGCINYEAFKHLISV

>sp|Q8WY64|MYLIP\_HUMAN E3 ubiquitin-protein ligase MYLIP OS=Homo sapiens GN=MYLIP PE=1  
SV=2

MLCYVTRPDAVLMEVEVEAKANGEDCLNQVCRRLLGIEVDYFGLQFTGSKGESLWLNLRN  
RISQQMDGLAPYRLKLRVKFFVEPHLILQEQRHIFFLHIKEALLAGHLLCSPEQAVELS  
ALLAQTKFGDYNQNTAKYNYEELCAKELSSATLNSIVAKHKELEGTSQASAQVQLQIVS  
AMENYGIEWHSVRDSEGQKLLIGVGPEGISICKDDFSPINRIAYPVVQMATQSGKNVYLT  
VTKESGNSIVLLFKMISTRAASGLYRAITETHAFYRCDTVTSAVMMQYSRDLKGHLASLF  
LNENINLGKKYVFDIKRTSKEYVDHARRALYNAGVVDLVSRRNQSPSHSPLKSSESSMNC  
SSCEGLSCQQTRVLQEKLRLKEAMLCMVCCEEEINSTFCPCGHTVCCESCAAQLQSCPV  
CRSRVEHVQHVVLPHTHTSLLNLTVI

>sp|Q86YV6|MYLK4\_HUMAN Myosin light chain kinase family member 4 OS=Homo sapiens GN=MYLK4  
PE=1 SV=2

MLKVKRLEEFNTCYNSNQLEKMAFFQCREEVEKVKCFLEKNSGDQDSRSGHNEAKEVWSN  
ADLTERMPVKSKRTSALAVDIPAPPAPFDHRIVTAKQGAVNSFYTVSKTEILGGGRFGQV  
HKCEETATGLKLAALKIKTRGMKDKEEVKNEISVMNQLDHANLIQLYDAFESKNDIVLVM  
EYVDGGELFDRIIDESYNLTDLTILFMKQICEGIRHMHQMYILHLDLKPENILCVNRDA  
KQIKIIDFGLARRYKPREKLKVNFGTPEFLAPEVVNYDFVSFPTDMWSVGVIAYMLLSGL  
SPFLGDNDAAETLNNILACRWDLDEEFQDISEEAKFISKLLIKEKSWRISASEALKHPW  
LSDHKLHSRLNAQKKKNRGSDAQDFVTK

>sp|P15172|MYOD1\_HUMAN Myoblast determination protein 1 OS=Homo sapiens GN=MYOD1 PE=1  
SV=3

MELLSPPLRDVDLTAPDGLCSFATTDDFYDDPCFDSFDLRFEDLDPRLMHVGALLKPE  
EHSHPAAVHPAPGAREDEHVRAPSGHHQAGRCLLWACKACKRKT TNADRRKAATMRERR  
RLSKVNEAFETLKRCTSSNPQNRLPKVEILRNAIRYIEGLQALLRDQDAAPPAAAAFYA  
PGPLPPGRGGEHYSGSDASSPRSNCSGMDYSGPPSGARRRNCYEGAYYNEAPSEPRP  
GKSAAVSSLDCLSSIVERISTESPAAPALLADVPSESPRRQEAAAPSEGESSGDPTQS  
PDAAPQCPAGANPNPIYQVL

>sp|Q8NFW9|MYRIP\_HUMAN Rab effector MyRIP OS=Homo sapiens GN=MYRIP PE=1 SV=2

MGRKLDLSGLTDDTEHVLQVVQRDFNLRKKEEERLSELKQKLDEEGSKCSILSKHQQFV  
EHCCMRCCSPFTFLVNTKRQCGDKFNVCKSCCSYQKHEKAWCCVCQQARLLRAQSLEW  
FYNNVKSFRKFRGSAKVLKNLYRKHRL ESGACFDILGGS LFESNLENEGSI SGSDSTFYR  
QSEGHSMVDTLAVALRVAEEAIEEAISKA EAYGDSL DKQNEASYLRDHKEELTEELATTI  
LQKII RKQKSKSEQQVEEPEGWHPHPQSCSTKVADEGTSASPGGYRAPAALWRSQSAFSIT  
GEEALKTPVEAPSRQPRDQGQHPRAESALPSWKSVDRLDETNLAPVLQSPDGNWVALKD  
GAPPPTRL LAKPKSGTFQALEVASSVASAYDEMGS DSEEDFDWSEALSKLCPRSRALPRN  
PQPQPTQAQSSDQGP I AASPSSALSPNPEAMCSDSETSSAGSSREVGHQARLSWLQRKAP  
RNPAAEKMRLHGELDVNFNPQLASRETS DSSEPEEAPHTDRRARRRRARLGSEEPSKE  
PSSPSAQLRDL DTHQVSDDLSETDISNEARDPQTLTDTTEEKRRNRLYELAMKMSEKETS  
SGEDQESEPKTES ENQKESLSSD NSQSVQEELKKKFS AVSLCNISTEVLKVINATEELI  
AGSTGPWESPQVPPDRQKGMFPRGTDQVRLDEQLTSLEENVYLAAGTVYGLETQLTELED  
AARCIHSGTDETHLADLEDQVATAAAQVHHAELQISDIESRISALTIAGLNIAPCVRFR  
RRDQKQRTQVQTIDTSRQRRKL PAPPVKAETSSVTTIKTFNHNFILQGSSTNRTKE  
RKGTTKDLMEPALES AVMY

>sp|Q5VVJ2|MYSM1\_HUMAN Histone H2A deubiquitinase MYSM1 OS=Homo sapiens GN=MYSM1 PE=1  
SV=1

MAAEEADV DIEGDVVAAGAPGSGENTASVLQKDHYLDSSWRTENGLIPWTL DNTISEE



NRAVIEKMLLEEEYLSKKSQPEKVWLDQKEDDKKYMKSLQKTAKIMVHSPTKPASYSVK  
WTIEEKELFEQGLAKFGRRWTKISKLIGSRTLQVKSYARQYFKNKVKCLDKETPNQKT  
GHNLQVKNEKGKTAWTPSCLGRADPNLNAVKIEKLSDDDEVDITDEVDELSSQTPQKN  
SSSDLLLDLPNSKMHTNQGEFITSQSQALFSKSSRGCLQNEKQDETLSSEITLWTEK  
QSNQDKKSIELNDQKFNELIKNCNKHDGRGIIVDARQLPSPEPCEIQKNLNDNEMLFHSC  
QMVEESHEEEELKPPEQEIEIDRNI IQEEKQAIPEFFEGRQAKTPERYLKIRNYILDQW  
EICKPKYLNKTSVRPGLKNCGVNCIGRIHTYLELIGAINFGCEQAVYNRPQTVDKVRIR  
DRKDAVEAYQLAQLQSMRTRRRRVDRPWGNWCDAKDLEGQTFEHLSAEELAKRREEEKG  
RPVKSLLKVPRTKSSFDPFQLIPCNFFSEKQEPFQVKVASEALLIMDLHAHVSMAEVIG  
LLGGRYSEVDKVVEVCAAEPNSLSTGLQCEMDPVSQTQASETLAVRGFSVIGWYHSHA  
FDPNPSLRDIDTQAKYQSYFSRGGAFIGMIVSPYNNRNPYPYSQITCLVISEEISPDGS  
YRLPYKFEVQMLEEPQWGLVFEKTRWII EKYRLSHSSVPMKIFRRSDLTCLQKLEEC  
MRKTL SKVTNCFMAEEFLTEIENLFLSNYKSNQENGVTENCTKELLM

>sp|Q15274|NADC\_HUMAN Nicotinate-nucleotide pyrophosphorylase [carboxylating] OS=Homo sapiens GN=QPRT PE=1 SV=3

MDAEG LALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGVLAGQPFF  
DAIFTQLNCQVSWFLPEGSKLVVARVAEVRGPAHCLLLGERVALNTLARCSGIAAAAA  
AVEAARGAGWTGHVAGTRKTTGFRLEKYGLLVGGAASHRYDLGGLVMVKDNHVVAAGG  
VEKAVRAARQAADFTLKVEVECSSLQEAQAAEAGADLVLLDNFKPEELHPTATVLKAQF  
PSVAVEASGGITLDNLPQFCGPHIDVISMGMLTQAAPALDFSLKLFKEVAPVPKIH

>sp|Q58DX5|NADL2\_HUMAN Inactive N-acetylated-alpha-linked acidic dipeptidase-like protein 2 OS=Homo sapiens GN=NAALADL2 PE=1 SV=3

MGNEASLPNTSLQGKKMAYQKVHADQRAPGHSQYLDNDDLQATALDLEWDMKELEESG  
FDQFQLDGAENQNLGHSETIDLNLDSIQPATSPKGRFQRLQEESDYITHYTRSAPKSNRC  
NFCHVLKILCTATILFIFGILIGYVVHTNCPDAPSSGTVDPQLYQEILKTIQAEDIKKS  
FRNLVQLYKNEDDMEISKIKTQWTSGLQEDVQFVNYSVLLDLPGPSPSTVTLSSSGQCF  
HPNGQPCSEEARKDSSQDLLSYAAYSAGKTLKAEVIDVSYGMADDLKRIRKIKNVTNQI  
ALLKLGLPLLYKLSSLEKAGFGGVLLYIDPCDLPKTVNPSHDTFMVSLNPGGDPSTPGY  
PSVDESFRQSRNLTSLLVQPI SAPLVAKL ISSPKARTKNEACSSLELPNNEIRVSMQV  
QTVTKLKTVTNVGVFMGLTSPDRYIIVGSHHHTAHSYNGQEWASSTAIITAFIRALMSK  
VKRGWRPDRITVFCSWGGAFTGNIGSYEWGEDFKKVLQKNVVAYISLHSPIRGNSSLYPV  
ASPSLQQLVVEKNFNCTRRACPETNISSIQIQGDADYFINHLGVPIVQFAYEDIKLE  
GPSFLSEARFSTRATKIEEMDPSFNLHETITKLSGEVILQIANEPVLPFNALDIALEVQN  
NLKGDQPNTHQLLAMALRLRESAELFQSDEMRPANDPKERAPIRIRMLNDILQDMEKSFL  
VKQAPPGFYRNILYHLDEKTSRFSILIEAWEHCKPLASNETLQEALSEVLNSINSAQVYF  
KAGLDVFKSVLDGKN

>sp|P43490|NAMPT\_HUMAN Nicotinamide phosphoribosyltransferase OS=Homo sapiens GN=NAMPT PE=1 SV=1

MNPAAEAENILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEETVFY  
GLQYILNKYLKGKVVTKKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPIEIKAVP  
EGFVIPRGNVLTVENTDPECYWLTNWIETILVQSWYPITVATNSREQKILAKYLLETS  
GNLDGLEKYLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLALIKKYYGTDKDPVPGY  
SVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV  
SRSTQAPLIIRPDGSGNPLDTVLKVL EILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINT

LQEIVEGMKQKMWSIENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVAD  
PNKRSKKGRLSLHRTAGNFVTL EEGKGDL EYGQDLLHTVFKNGKVTKSYSFDEIRKNA  
QLNIELEAAHH

>sp|P60321|NAN02\_HUMAN Nanos homolog 2 OS=Homo sapiens GN=NANOS2 PE=1 SV=1  
MQLPPFDMWKDYFNLSQVWALIASRGQRLETQEIEEPSGPPLGQDQGLGAPGANGGLG  
TLCNFCKHNGESRHVYSSHQLKTPDGVVCPILRHYVCPVCGATGDQAHTLKYCPLNGGQ  
QSLYRRSGRNSAGRRVKR

>sp|Q8TBE9|NANP\_HUMAN N-acylneuraminate-9-phosphatase OS=Homo sapiens GN=NANP PE=1 SV=1  
MGLSRVRAVFFDLNDTLIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKSKEC  
FHPYNTCITDLRTSHWEEAIQETKGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTE  
LRKEVRLLLL TNGDRQTQREKIEACACQSYFDVVVGGEQREEKPAPSIFYCCNLLGVQ  
PGDCVMVGD TLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHYMVSSVLELPALLQSI  
DCKVSMST

>sp|Q13508|NAR3\_HUMAN Ecto-ADP-ribosyltransferase 3 OS=Homo sapiens GN=ART3 PE=1 SV=2  
MKTGHFEIVTMLLATMILVDIFQVKAEVLDMAFNADDEYLKCTDRMEIKYVPQLLKEEK  
ASHQQLD TVWENAKAKWAARKTQIFLPMNFKDNHGIALMAYISEAQEQTPFYHLFSEAVK  
MAGQSREDYIYGQFKAFHYLTRALQLLRKPCEASSKTVVYRTSQGTSFTFGGLNQARF  
GHFTLAYSAKPQAANDQLTVLSIYTCLGVDIENFLDKESERITLIPLNEVFQVSQEGAGN  
NLILQSINKTCSHYECAFLGGLKTENCIENTLEYFQPIYVYNPGEKNQKLEDHSEKNWKLE  
DHGEKNQKLEDHGVKILEPTQIPGMKIPFPPLPEDKSQGNINNPTPGPVVPVPGKSHPS  
ASSGKLLLPQFGMVII LISVSAINLFVAL

>sp|Q8N8M0|NAT16\_HUMAN Probable N-acetyltransferase 16 OS=Homo sapiens GN=NAT16 PE=2 SV=2  
MKLEASCGTATSEVPKPEKKTARDAEPSSETRPQEVEAEPRSGSGPEAAEPLDFVATE  
REFEEVLAISGGIYGGLDYLP SRYH SWLRDPDRTTVVLAKRNGGVIALESVNVIDAGETVL  
VEGLRVAPWERGKGVAGLLQRFCSQLVKRQHPGVKVARLTRDDQLGPRELK KYRLITKQG  
ILLVRFNASALLAGLGARLAALRTSGTFSPLPTEAVSEAGGDVARLLLSPSVQRDVLPGG  
TIIQDWQPYRPSESNLRLLAAGLEWRVDSRARPRVLTLCRPFPIPHGGDGTWRYLNID  
AFGSDGAQVQSQLLWHLQRQAPRLVGLNVMCQLFLEPQLWSQLADFCQVGLGLELVKGYT  
EQYLLEADI

>sp|Q3BBV2|NBPF8\_HUMAN Putative neuroblastoma breakpoint family member 8 OS=Homo sapiens  
GN=NBPF8 PE=5 SV=1  
MVVSAGPWSSEKAEMNILEINEKLRPQLAENKQQFVNLKEMFSNSTGRLPGQPTEEQY  
KVLVHSQERELTQLKEKLREGRDASRSLNEHLQALLTLDEPDKSQGGDLQEQLAEGCRLA  
QHLVQKLSPENDEDEDEDVQVEEDEKVLLESSAPREVQKAEESKVPEDSLEECAITCSNSH  
GPCDSIQPHKNIKITFEEDKVNSSLVVDRESSHDGCQDALNILPVPGPTSSATNVMVVS  
AGPLSSEKAEMNILEINEKLCPLAEKKQQFRSLKEKCFVTQVACFLAKQQNKYKYECK  
DLIKSMRLRNERQFKEEKLAELQKAEELRQYKVLVHSQERELTQLREKLREGRDASRSLN  
EHLQALLTPDEPDKSQGGDLQEQLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQK  
SSSPREMKAEEKEVPEDSLEECAITCSNSHGPYDSNPQHRKTKITFEEDKVDSTLIGSS  
SHVEWEDAVHIIPENESDDEEEEEKGPVSPRNLQESEEEVVPQESWDEGYSTLSIPPERL  
ASYQSYSTFHSLEEQQVCMAVDIGRHRWDQVKKEDQEATGPRLSRELLDEKGPEVLQDS  
LDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLS  
RELLDEKEPEVLQDSLDCYSTPSGYLELPDLGQPYSSAVYSLEEQYLGALD VDRIKKD  
QEEEDQGPCCPRLSRELLEVEPEVLQDSLDCYSTPSSCLEQPDSCQPYGSSFYALEE

KHVGFSLDVGEIEKKKGKIGRGRSSKKRRRRGRKEGEEDQNPPCRLNSVLMEEVEPEV  
LQDSLDRCYSTPSMYCELRDSFQHYRSVF

>sp|Q6P3W6|NBPF1\_HUMAN Neuroblastoma breakpoint family member 10 OS=Homo sapiens  
GN=NBPF10 PE=2 SV=2

MVVSAGPWSSEKAEMNILEINEKLRPQLAENKQQFGNLKERCFTVQLAGFLANQQKKYNY  
EECKDLIKFMLRNERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDAS  
RSLNEHLQALLTLDEPDKSQGGDLQEQLAEGCRLAQHLVQKLSPENDEDEDEDVQVEEAE  
KVQKSSAPREVQKTEESKVPEDSLEECAITCSNSHGPCDSNQPHKNIKITFEDEVNSTL  
VVDRESSHDECQDALNILPVPGPTSSATNVSMVVSAGPLSSEKAEMNILEINEKLHPQLA  
EKKQQFRNLKERCFTVQLAGFLANQQKKYKYECKDLIKSMLRNERQFKEEKLAEQLKQA  
EELRQYKVLVHAQERELTQLREKLREGRDASRSLNEHLQALLTPDEPDKSQGGDLQEQLA  
EGCRLAQHLVQKLSPENDNDDDEDVQVELAEKVQKSSAPREMKAEEKEVPEDSQEECAI  
TYSNSHGPYDSNQPHRKTITFEEDKVDSTLIGSSSHVEWEDAVHIIPENESDDEEEEEK  
GPVSPRNLQESEEEVPPQESWDEGYSTLSIPPEMLASYQSYSTFHSLEEQQVCMVDIG  
RHRWDQVKKEDQEATGPRLSRELLDEKGPEVLQDSLDRCYSTPSGCLELTDSCQPYRSAF  
YVLEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSRELLDEKEPEVLQDSLDRCYSTPSG  
YLELPDLGQPYSSAVYSLEEQLGLALDLDRTKKDQEEEDQGPSCPRLSRELLEVEPE  
VLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIEKKKGKRRGR  
S

>sp|Q3BBV1|NBPFK\_HUMAN Neuroblastoma breakpoint family member 20 OS=Homo sapiens  
GN=NBPF20 PE=2 SV=1

MVVSAGPWSSEKAEMNILEINEKLRPQLAENKQQFGNLKERCFLTQLAGFLANRQKKYKY  
EECKDLIKFMLRNERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLKEKLREGRDAS  
RSLNEHLQALLTPDEPDKSQGGDLQEQLAEGCRLAQHLVQKLSPENDEDEDEDVQVEEDE  
KVLESPAPREVQKAEESKVTEDSLEECAITCSNSHGPCDSNQPHKNIKITFEDEVNSTL  
VVDRESSHDECQDALNILPVPGPTSSATNVSMVVSAGPLSSEKAEMNILEINEKLHPQLA  
EKKQQFRNLKEKCFLTQLAGFLANQQNKYKYECKDLIKFMLRNERQFKEEKLAEQLKQA  
EELRQYKVLVHAQERELTQLREKLREGRDASRSLNEHLQALLTPDEPDKSQGGDLQEQLA  
EGCRLAQHLVQKLSPENDNDDNEDVQVEVAEKVQKSSAPREMKAEEKEVPEDSLEECAI  
TYSNSHGPYDSNQPHRKTITFEEDKVDSTLIGSSSHVEREDAVHIIPENESDDEEEEEK  
GPVSPRNLQESEEEVPPQESWDEGYSTPSIPPEMLASYKSYSTFHSLEEQQVCMVDIG  
RHRWDQVKKEDQEATGPRLSRELLDEKGPEVLQDSLRCYSTPSGCLELTDSCQPYRSAF  
YVLEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSRELLDEKEPEVLQDSLGRWYSTPSG  
YPELPDLGQPYSSAVYSLEEQLGLALDLDRKKDQEEEDQGPSCPRLSRELLEVEPE  
VLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIEKKKGKRRGR  
SKKERRRRGRKEGEEDQNPPCRLNGVLMEEVEPEVLQDSLDRCYSTPSMYFELPDSFQHY  
RSVFYSFEEQHISFALYVDNRFFTLTVTSLHLVFMVIFPQ

>sp|P53602|MVD1\_HUMAN Diphosphomevalonate decarboxylase OS=Homo sapiens GN=MVD PE=1 SV=1

MASEKPLAAVTCTAPVNIKVIKYGKRDEELVLPINSSSVTLHQDLKTTTAVISKDF  
TEDRIWLNGREEDVGQPRQLACLREIRCLARKRRNSRDGDLPSLSCKVHVASVNNFPT  
AAGLASSAAGYACLAYTLARVYGVESDLSEVARRGSGSACRSLYGGFVEWQMGEQADGKD  
SIARQVAPESHWPRLVILVVSAAEKKLTGSTVGMASVETSPLLRFRAESVVPARMAEM  
ARCIRERDFPSFAQLTMKDSNQFHATCLDTFPPISYLNIAISWRIIHLVHRFNAHHGDTKV  
AYTFDAGPNAVIFTLDDTVAEFVAAVWHGFPPGSGNDTFLKGLQVRPAPLSAELQAALAM

EPTPGGVKYYIIVTQVGPGPQILDDPCAHLGPDGLPKPAA

>sp|Q9BRK3|MXRA8\_HUMAN Matrix-remodeling-associated protein 8 OS=Homo sapiens GN=MXRA8  
PE=1 SV=1

MALPSRILLWKLVLQSSAVLLHSGSSVPAAGSSVSVSESAVSWEAGARAVLRQCSPRMV  
WTQDRLHQRVLRHWDLRGPGGGPARRLLDLYSAGEQRVYEARDGRLELSASAFDDGNF  
SLLIRAVEETDAGLYTCNLHHHYCHLYESLAVRLEVTDGPPATPAYWDGEKEVLAVARGA  
PALLTCVNRGHVWTDHRVVEAQVQVHWDQPPGVPHDRADRLLDLYASGERRAYGPLFLR  
DRVAVGADAFERGFSLRIEPLVADEGTYSCHLHHHYCGLHERRVFHLTVAEPHAEP  
RGSPGNGSSSHGAPGPDPTLARGHNVINIVPESRAHFFQQLGYVLATLLLFI  
LLVTVL  
LAARRRRGGYEYSDQKSGKSKGKDVNLAEFAVAAGDQMLYRSEDIQLDYKNNILKERAEL  
AHSPLPAKYIDLKGFRENCK

>sp|Q969H8|MYDGF\_HUMAN Myeloid-derived growth factor OS=Homo sapiens GN=MYDGF PE=1 SV=1

MAAPSGGWNGVGASLWAALLGAVALRPAEAVSEPTTVAFDVRPGGVVHFSHNVGPGDK  
YTCMFTYASQGGTNEQWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAIEVRGAEIEYA  
MAYSKAAFERESDVPLKTEEFVTKTAVAHPRGAFKAELSKLVIVAKASRTEL

>sp|Q96EZ4|MYEOV\_HUMAN Myeloma-overexpressed gene protein OS=Homo sapiens GN=MYEOV PE=2  
SV=2

MALRICVYTPALPIGLCTRCCLEQSPSWCHCLRGVSFLTFLHQSPLGDRDSLLMF  
TRQAGHFVEGSKAGRSRGRCLCSQALRVAVRGAFVSLWFAAGADRERNKGDKAQTGAG  
LSQEAEDVDVSRARRVTDAPQGTLCGTGNRNSGSQSARVVGVAHLGEAFRVGVEQAIS  
SCPEEVHGRHGLSMEIMWARMDVALRSPGRGLLAGAGALCMTLAESSCPDYERGRAC  
TLH  
RHPTPHCSTWGLPLRVAGSWLTVVTVEALGGWRMGVRRTGQVGPTMHPPPVSGASPL  
LLH  
HLLLLLLIIILTC

>sp|P23409|MYF6\_HUMAN Myogenic factor 6 OS=Homo sapiens GN=MYF6 PE=1 SV=1

MMMDLFETGSYFFYLDGENVTLQPLEVAEGSPLYPGSDGTLSPCQDQMPPEAGSDSSGEE  
HVLAPPGLQPPHCPGQCLIWACKTCKRKSAPTDRRKAATLRERRRLKKINEAFEALKRRT  
VANPNQRLPKVEILRSAISYIERLQDLLHRLDQQEKMQLGVDPFYSYRPKQENLEGADFL  
RTCSSQWPSVSDHSRGLVITAKEGGASIDSSASSSLRCLSSIVDSISSEERKLPCVEEVV  
EK

>sp|Q15746|MYLK\_HUMAN Myosin light chain kinase, smooth muscle OS=Homo sapiens GN=MYLK  
PE=1 SV=4

MGDKVLVASSHISKTSLSDPSRVDSMPLTEAPAFILPPRNLCIKEGATAKFEGRV  
RGYP  
EPQVTWHRNGQPITSGGRFLDCGIRGTFSLVIHAVHEEDRGKYTCEATNGSGARQVTVE  
LTVEGSFAKQLGQPVVSKTLGDRFSAPAVETRPSIWGECPPKFATKLGRVVVKEGQMGRF  
SCKITGRPQPQVTWLKGNVPLQPSARVSVSEKNGMQVLEIHGVNQDDVGYYTCLV  
VNGSG  
KASMSAELSIQGLDSANRSFVRETKATNSDVRKEVTNISKESKLSLEAAAKSKNCSSP  
QRGGSPWAANSQPQPPRESKLECKDSPRTAPQTPVLQKTSSSITLQAARVQPEPRAPG  
LGVLSPSGEERKRPAPRPATFPTRQPGLSQDVVSKAANRRIPMEGQRDSAFP  
KFESKP  
QSQEVKENQTVKFRCEVSGIPKPEVAWFLEGTPVRRQEGSIEVYEDAGSHYLC  
LLKARTR  
DSGTYSCTASNAQQQLSCSWTLQVERLAVMEVAPSFSSVLKDCAVIEGQDFVLQCSVRGT  
PVP  
RITWLLNGQPIQYARSTCEAGVAELHIQDALPEDHGTYTCLAENALGQVSCSAWTV  
HEKKSSRKSEYLLPVAPSKPTAIFLQGLSDLKVMGDSQVTMTVQVSGNPPPEVIW  
LHNG  
NEIQESEDHFHEQRGTQHSLCIQEVFPEDTGTYTCEAWNSAGEVRTQAVLTVQEP  
HDGTQ  
PWFISKPRSVTASLGQSVLISCAIAGDPFPTVHWRDGGKALCKDTGHFEVLQNE  
DVFTLV

>sp|Q9Y6X6|MYO16\_HUMAN Unconventional myosin-XVI OS=Homo sapiens GN=MYO16 PE=1 SV=3  
MEIDQCLLESPLGQRQLVKRMRCEQIKAYYEREKAFQKQEGFLKRLKHAKNPKVHFNL  
TDMLQDAI IHHNDKEVLRLKKEGADPHTLVSSGGSLHLHCARYDNAFIAEILIDRGVNVN  
HQDEDFWTPMHIAACDNPDIVLLVLAGANVLLQDVNGNIPLDYAVEGTESSSILLTYL  
DENGVDLTSLRQMKLQRPSMMLTDVKHFLSSGGNVNEKNDEGVTLLHMACASGYKEVVS  
ILEHGGDLNIVDDQYWTPLHLAAKYGQTNLVKLLMHQANPHLVNCNEEKASDIAASEFI  
EEMLLKAEIAWEEKMKEPLSASTLAQEEPYEI IHDLPVLSSKLSPLVLPPIAKQDSLLEK  
DIMFKDATKGLCKQQSQSDIPENPMMSGSTKPEQVKLMPPAPNDLATLSELNDGSLLEY  
IQKRFGNNQIYTFIGDILLLVNPKELPIYSSMVSQLYFSSSGKLCSSLPPLHFCSEVERA  
FHQLFREQRPQCFILSGERGSKGSEASKQIRHLTCRAGASRATLDSRFKHVVCILEAFG  
HAKTTLNDLSSECFIKYFELQFCERKQQLTGARIYTYLLEKSRLVSQPLGQSNFLIFYLLM  
DGLSAEEKYGLHLNNLCAHRYLNQTIQDDASTGERSLNREKLAVLKRALNVVGFSSLEVE  
NLFVILAAILHLGDIRFTALNEGNSAFVSDLQLLEQVAGMLQVSTDELASALTDDIYQYFK  
GDMIIRRHITIQAFFRDLLAKSLYSRLFSFLVNTMNSCLHSQDEQKSMQTLDIGILDIF  
GFEEFQKNEFEQLCVNMTNEKMHHYINEVLFLHEQVECVQEGVTMETAYSPGNQNGVLDF  
FFQKPSGFLTLLDEESQMIWSVESNFPKKLQSLLESSNTNAVYSPMKDGNVNAKDHGT  
AFTIMHYAGRVMYDVVGAIEKNKDSLSQNLLFVMKTSENVVINHLFQSKLSQTGSLVSAY  
PSFKFRGHKSALLSKMKTASSIIGENKNYLELSKLLKKKGSTFLQRRLERGPVTIASQL  
RKSLMDIIGKLQKCTPHFIHCIRPNNSKLPDTFDNFYVSAQLQYIGVLEMVKIFRYGYPV  
RLSFSDFLSRYKPLADTFLREKKEQSAAERCRLVLQQCKLQGWQMGRVKVFLKYWHADQL  
NDLCLQLQRKIITCQKVI RGLARQHLLQRISIRQQEVTSINSFLQNTEDMGLKTYDALV  
IQNASDIARENDRLRSEMNAPYHKEKLEVRNMQEEGSKRTDDKSGPRHFHPSSMSVCAAV  
DGLGQCLVGPSIWSPSLHSVFSMDDSSSLPSPRKQPPPKPKRDPNTRLSASYEAVSACLS  
AAREAANEALARPRPHSDDYSTMKIIPPRKPKRSPNTKLSGSYEEISGSRPGDARPAGAP  
GAAARVLTGPTQCALPPAAPPGDEDDSEPVYIEMLGHAARPDSPDPGESVYEEEMKCCLP

DDGGPGAGSFLHGHASPLLRAPEDAAGPPGDACDIPPPFPNLLPHRPPLLVPPTPV  
TCSPASDESPLTPLEVKKLPVLETNLKYPVQPEGSSPLSPQYSKSQKGDGRPASPLAL  
FNGSGRASPPSTPPPPPPPPGPPAPYRCAHLAFPEPAPVNAGKAGPSAEAPKVHPKP  
NSAPVAGPCSSFPKIPYSPVKATRADARKAGSSASPPAPYSPSSRPLSSPLDELASLFN  
SGRSVLRKSAAGRKIREAEGFETNMNISSRDPSTSEITSETQDRNANNHGIQLSNSLSS  
AITAENGNSISNGLPEEDGYSRLSISGTGTSTFQRHRDSHTTQVIHQRLSENEVALQE  
LLDWRRKLCEEGQDWQILHHAEPVPPPPCKKPSLLKKPEGASCNRLPSELWDTTI

>sp|Q96H55|MYO19\_HUMAN Unconventional myosin-XIX OS=Homo sapiens GN=MYO19 PE=1 SV=2

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ADTFYTNAGCTLVALNPFKVPVQLYSELMREYHAAPQPQKLKPHVFTVGEQTYRNVKSL  
IEPVNQSIIVVSGESGAGKTWTSRCLMKFYAVVATSPASWESHKIAERIEQRILNSNPVME  
AFGNACTLRNNSRFGKFIQLQLNRAQQMTGAAVQTYLLEKTRVACQASSERNFHIFYQ  
ICKGASEDERLQWHLPEGAAFSWLPNERSLEEDCFEVTREAMLHLGIDTPTQNNIFKVL  
AGLLHLGNIQFAASEDEAQCQPMDDAKYSVRTAASLLGLPEDVLLEMVQIRTIRAGRQQ  
QVFRKPCARAECOTRRDCLAKLIYARLFDWLVSVINSSICADTDSWTTFIGLLDVYGFES  
FPDNSLEQLCINIANEKLQQHFVAHYLRAQQEEYAVEGLEWSFINYQDNQPCDLIEGSP  
ISICSLINEECRLNRPSSAAQLQTRITETALAGSPCLGHNKLSPREPSFIVVHYAGPVRYHT  
AGLVEKNKDIPELTRLQQSQDPLLMGLFPTNPKEKTQEPPGQSRAPVLTVVSKFKA  
SLEQLLQVLHSTTPHYIRCIKPNSSQGAQTFLQEEVLSQLEACGLVETIHISAAGFPIRV  
SHRNFVERYKLLRRLHPCTSSGPDSPYPAKGLPEWCPHSEETLEPLIQDILHTLPVLTQ  
AAAITGDSAEAMPAMHCGRTKVFMTDSMLELLECGRARVLEQCARCQGGWRRHRHREQ  
ERQWRVAMLIQAAIRSWLTRKHQIRLHAAATVIKRAWQKWRIRMACLAKELDGVEEKHF  
SQAPCSLSTSPQLTRLEAIIRLWPLGLVLANTAMGVGSFQKRLVWACLQLPRGSPSSY  
TVQTAQDQAGVTSIRALPQGSIKFHCRKSPLRYADICPEPSPYSITGFNQILLERHRLIH  
VTSSAFTGLG

>sp|Q9UBC5|MYO1A\_HUMAN Unconventional myosin-Ia OS=Homo sapiens GN=MYO1A PE=2 SV=1

MPLLEGSGVEDLVLEPLVEESLLKNLQLRYENKEIYTYIGNVVISVNPYQQLPIYGPE  
FIAKYQDYTFYELKPHIYALANVAYQSLRDRDRDQCILITGESGSGKTEASKLVMSYVAA  
VCGKGEQVNSVKEQLQSNPVLEAFGNAKTIRNNSSRFGKYMDIEFDFKGSPLGGVITN  
YLLEKSRLVKQLKGERNFHIFYQLLAGADEQLLKALKLERDTTGAYLNHEVSRVDGMDD  
ASSFRAVQSAMAVIGFSEEEIRQVLEVTSMVLKLGVLVADEFQASGIPASGIRDGRGVR  
EIGEMVGLNSEEVERALCSRTMETAKEKVVTALNVMQAQYARDALAKNIYSRLFDWIVNR  
INESIKVGIGEKKKVMGVLDIYGFEILEDNSFEQFVINYCNEKLQQVFIEMTLKEEQEEY  
KREGIPWTKVDYFDNGIICKLIEHNQRGILAMLDEECLRPGVVS DSTFLAKLNQLFSKHG  
HYESKVTQNAQRQYDHTMGLSCFRICHYAGKVTYNVTSFIDKNNDLLFRDLLQAMWKAQH  
PLLRSLFPEGNPKQASLKRPTAGAQFKSSVAILMKNLYSKSPNYIRCIKPNHQQRGQF  
SSDLVATQARYLGLENNVRVRAGYHRQGYGPFLERYRLSRSTWPHWNGGDREGVEKV  
LGELSMSSGELAFGKTKIFIRSPKTLFYLEEQRRLRLQQLATLIQKIYRGWRCRTHYQLM  
RKSQILISSWFRGNMQKKCYGKIKASVLLIQAFVRGWKARKNYRKYFRSEAALTLADFIY  
KSMVQKFLGLKNNLPSTNVLDKTPWPAAPYKCLSTANQELQQLFYQWKCKRFRDQLSPKQ  
VEILREKLCASELFKGGKASYPQSVIPFCGDYIGLQGNPKLQKLKGGEVPVMAEAVK  
KVNRRNGKTSRILLTKGHVILDTKKSQAKIVIGLDNVAGVSVTSLKDGLFSLHLSM  
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AGGDNSKLRYKKKGSHCLEVTVQ

>sp|Q12965|MYO1E\_HUMAN Unconventional myosin-Ie OS=Homo sapiens GN=MYO1E PE=1 SV=2

MGSKGVYQYHWQSHNVKHSVDDMVLLSKITENSIVENLKKRYMDDYIFTYIGSVLISVN  
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AAKYIMSYISRVSGGKTQVQHVKDIILQSNPLLEAFGNAKTVRNNSSRFQKYFEIQFSP  
GGEPDGGKISNLFLEKSRVVMRNPGERSFHIFYQLIEGASAEQKHSLGITSMDYYYYLSL  
SGSYKVDDIDDRREFQETLHAMNVIGIFAEEQTLVLQIVAGILHLGNISFKEVGNYAAVE  
SEEFLAFPAYLLGINQDRLKEKLTSRQMSKWGGKSESIHVTLNVEQACYTRDALAKALH  
ARVFDLVDLSINKAMEKDHEEYNIGVLDIYGFEIFQKNGFEQFCINFVNEKLQQIFIET  
LKAEEQEEYVQEGIRWTPIEYFNNKIVCDLIENKVNPPGIMSILDDVCATMHAVGEGADQT  
LLQKLQMIGSHEHFNSWNQGFIIHHYAGKVSYMDGFCERNRDVLFMDLIELMQSSELP  
FIKSLFPENLQADKKGRPTTAGSKIKKQANDLVSTLMKCTPHYIRCIKPNETKKPRDWE  
SRVKHQQVEYLGLENIRVRAGYAYRRIFQKFLQRYAILTKATWPSWQGEKQGVHLHLQ  
SVNMSDQFQLGRSKVFIKAPESLFLLEEMRERKYDGYARVIQKSWRKFWARKKYVQMRE  
EASDLLNKKERRRNSINRNFIDYIGMEEHPELQQFVGKREKIDFADTVTKYDRRFKGV  
KRDLLTPKCLYLIGREKVKQGPDKGLVKEVLKRKIEIERILSVSLSTMQDDIFILHEQE  
YDSLLESVFKTEFLSLLAKRYEEKTQKQLPLKFSNTLELKLKKENWGPWSAGGSQVQFH  
QGGDLAVLKPSNKVLQVSIQGPLPKNSRPTRRNTTQNTGYSSGTQANYPVRAAPPPPG  
YHQNGVIRNQYVPYPHAPGSQRSNQKSLYTSMARPPLPRQQSTSSDRVSQTPESLDFLKV  
PDQGAAGVRRQTTSRPPPAGGRPKPQPKPKQVPQCKALYAYDAQDTDELSFNANDIID  
IKEDPSGWWTGRLRGKQGLFPNNYVTKI

>sp|Q8NEV4|MYO3A\_HUMAN Myosin-IIa OS=Homo sapiens GN=MYO3A PE=2 SV=2

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EIEAEYNILKALSDHPNVVRFYGIYFKDKVNGDKLWLVLELCSGGSVTDLVKGFLKRGE  
RMSEPLIAYILHEALMGLQHLHNNKTIHRDVKGNNILLTEGGVKLVDFGVSAQLTSTRH  
RRNTSVGTPFWMAPEVIACEQQLDTTYDARCDTWSLGITAIELGDGPPLADLHPMRALF  
KIPRNPPLKRLQPELWSAEFNDFISKCLTKDYEKRPVSELLQHKFITQIEGKDVMLQKQ  
LTEFIGIHQCMGGTEKARRERIHTKKGNFNRPLISNLKDVDLATLEILDENTVSEQLEK  
CYSRDQIYVYVGDIILALNPFQSLGLYSTKHSKLYIGSKRTASPPHIFAMADLGYQSMIT  
YNSDQCIVISGESGAGKTENAHLVQQTLVLGKANNRTLQEKILQVNNLVEAFGNACTII  
NDNSSRFKYLEMKFTSSGAVVGAQISEYLLEKSRV IHQAIGKNFHIFYIYAGLAIEKK  
KLAHYKLPENKPPRYLQNDHLRTVQDIMNNSFYKSQYELIEQCFKIVIGFTMEQLGSIYSI  
LAAILNVGNIEFSSVATEHQIDKSHISNHTALENCASLLCIRADELQEALTSCHVTRGE  
TIIRPNTVEKATDVRDAMAKTLYGRLFSWIVNCINSLLKHDSSPSGNGDELSIGILDIFG  
FENFKNSFEQLCINIANEQIYQYNNQHVFAWEQNEYLNEDVDARVIEYEDNWPLDMFL  
QKPMGLLSLLDEESRFPKATDQTLVEKFEGNLKSQYFWRPKRMELSFGIHHYAGKVLNA  
SGFLAKNRDTLPTDIVLLLRSSDNSVIRQLVNHPLTKTGNLPHSKTKNVINYQMTSEKL  
INLAKGDTGEATRHARETTNMKTQTVASYFRYSMDLLSKMVVGQPHFVRCIKPNSERQA  
RKYDKEKVLLQLRYTGILETARIRRLGFSHRILFANFIKRYLLCYKSSEEPMSPTCA  
TILEKAGLDNWALGKTKVFLKYHVHVEQLNLMRKEAIDKLILIQACVRAFLCSRRYQKIQE  
KRKESAI IQSAARGHLVRKQRKEIVDMKNATVTTIQTSQDEFDYKKNFENTRESFVKKQ  
AENAI SANERFISAPNNKGSVS VKTSTFKPEEETTNAVESNNRVYQTPKKMNNVYEEV  
KQEFYLVGPEVSPKQKSVKDLEENSNLRKVEKEEAMIQSYQRYTEERNCEESKAAYLER  
KAISERPSYPVPWLAENETSFKKTLEPTLSQRSIYQNANSMEKEKTSVVTQRAPICSQE  
EGRGRLRHETVKERQVEPVTQAQEEEDKAAVFIQSKYRGYKRRQQLRKDKMSSFKHQRIV

TTPTVEARNTHNLYSYPTKHEEINNIKKKDNKDSKATSEREACGLAIFSKQISKLSEEFY  
ILQKKLNEMILSQQLKSLYLGVSHHKPINRRVSSQQCLSGVCKGEEKILRPPRRPRPKP  
TLNNPEDSTYYYYLLHKS IQEKKRRPRKDSQGKLLDLEDFYKEFLPSRSGPKEHSPSLRE  
RRPQQELQNCIKANERCWAAESPEKEEEREPAANPYDFRLLRKTSSQRRRLVQQS

>sp|O14974|MYPT1\_HUMAN Protein phosphatase 1 regulatory subunit 12A OS=Homo sapiens  
GN=PPP1R12A PE=1 SV=1

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HRGADINYANVDGLTALHQACIDNDVMVKFLVENGANINQPDNEGWIPLHAAASCGYLD  
IAEFLIGQGAHVAVNSEGDTPLDIAEEEAMEELLQNEVNRQGV DIEAARKEEERIMLRD  
ARQWLNSGHINDVRHAKSGGTALHVAAGKYTEVLKLLIQAGYDVNIKDYDGTPLHAAA  
HWGKEEACRILVDNLCDMEMVNKVGQTAFDVADEDILGYLEELQKKQNLHSEKRDKKSP  
LIESTANMDNNQSQKTFKNKETLIEPEKNASRIESLEQEKVDEEEEGKKDESSCSSEED  
EEDDSESEAEETDKTKPLASVTNANTSSTQAAPVAVTTPTVSSGQATPTSPIKKFPTTATK  
ISPKKEERKDESPATWRLGLRKTGSYGALAEITASKEGQKEKDTAGVTRSASSPRLSSSL  
DNKEKEKDSKGTALYVAPTIPRRLASTSDIEEKENRDSSSLRTSSSYTRRKWEDDLKKN  
SSVNEGSTYHKSCSFGRQRDDLISSSVPTTSTPTVTSAGLQKSLLSSTSTTTKITTGS  
SSAGTQSSTSNRLWAEDSTEKEKDSVPTAVTIPVAPTIVNAAASTTTLTITTTAGTVSSTT  
EVRERRRSYLTTPVRDEESESQRKARSQARQSRRSTQGVTLTDLQEAETIGRSRSTRTR  
EQENEEKEKEEKEKQDKEKQEEKKESETSREDEYKQKYSRTYDETYQRYRPVSTSSSTP  
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RERRRRPREKRRSTGVSWTQSDENEQEQQSDTEEGSNKKTQTDISISRYETSSTSAGDR  
YDSLLGRSGSYSYLEERKPYSSRLEKDDSTDFKKLYEQILAENEKLAQLHDTNMELTDL  
KLQLEKATQRQERFADRSLLEMEKRERRALERRISEMEEELKMLPDLKADNQRLKDENGA  
LIRVISKLSK

>sp|Q6P582|MZT2A\_HUMAN Mitotic-spindle organizing protein 2A OS=Homo sapiens GN=MZT2A  
PE=1 SV=2

MAAQGVGPGPSAAPPGLEAARQKLALRRKKVLSTEEMELYELAQAAGGGIDPDVFKILV  
DLLKLNVAPLAVFQMLKSMCAGQLASEPQDPAAVSLPTSSVPETGRDKGSAALGGVLA  
LAERSNHEGSSQRMPRQPSATRLPKGGGPGKSPTQGST

>sp|Q6N069|NAA16\_HUMAN N-alpha-acetyltransferase 16, Naa16 auxiliary subunit OS=Homo  
sapiens GN=NAA16 PE=1 SV=2

MPNVLLPPKESNLFKRILKCYEQKQYKNGLKFKMILSNPKFAEHGETLAMKGLTLNCLG  
KKEEAYEFVRKGLRNDVKSHVCWHVYGLLQRSDDKKYDEAIKCYRNALKLDKDNLQILRDL  
SLLQIQMRDLEGYRETRYQLLQLRPTQRASWIGYAIAYHLLKDYDMALKLLEEFRTQQV  
PPNKIDYEYSELILYQNVQVMREADLLQESLEHIEMYEKQICDKLLVEEIKGEILLKLGR  
KEASEVFKNLIDRNAENWCYYEGLEKALQISTLEERLQIYEEISKQHPKAITPRLPLTL  
VPGERFRELMDKFLRVNFSKGCPLFTTLKSLYYNTEKVSIIQELVTNYESLKTCDFFS  
PYENGEKEPPTTLLWVQYFLAQHFQDKLGQYSLALDYINAAIASTPTLIELFYMKAKIYKH  
IGNLKEAAKWMDEAQS LDTADRFINSKCAKYMILANMIKEAEEMCSKFTREGTSAMENLN  
EMQCMWFQTECISAYQRLGRYGDALKKCHEVERHFFEITDDQDFHTYCMRKMTLAYVD  
LLRLEDILRRHAFYFKAARSAIEIYLKLYDNPLTNESKQEQEINSENLSAKELKKMLSKQR  
RAQKKAKLEERKHAERERQKNQKKKRDEEEEEEASGLKEELIPEKLERVENPLEEAVKF  
LIPLKNLVADNIDTHLLAFEIYFRKGKFLMLQSVKRAFAINSNNPWLHECLIRFSKSVS  
NHSNLPDIVSKVLSQEMQKIFVKKDLESFNEDFLKRNATSLQHLLSGAKMMYFLDKSRQE



KAIAIATRLDETIKDKDKTLIKVSEALLDGSFGNCSSQYEEYRMACHNLLPFTSAFLPA  
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>sp|E9PAV3|NACAM\_HUMAN Nascent polypeptide-associated complex subunit alpha, muscle-specific form OS=Homo sapiens GN=NACA PE=1 SV=1

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ANQASFPFSPSTIASTPLEVPFPQSSSGTALPLGTAPEAPTFLPNLIGPPISPAALALAS  
PMIAPTLKGTPTSSSAPLALVALAPHSVQKSSAFPPNLLTSPPSVAVAESGSVITLSAPIA  
PSEPKTNLNKVPSEVVPNPKGTPSPPCIVSTVPYHCVTPMASIQSGVASLPQTTPTTTLA  
IASPQVKDDTISSVLISPNQPSLSLKGVPSPPAALSLSTQSLPVVTSSQKTAGPNTPPD  
FPISLGSHLAPLHQSSFGSVQLLGGTGPSALSDPTVKTISVDHSSTGASYPSQRSVIPPL  
PSRNEVVPATVAAFPVVAPSVDKGPSTISSITCSPSGSLNVATSFSLSPTTSLILKSSPN  
ATYHYPLVAQMPVSSVGTTPLVVTPNCTIAAAPTTTTFEVATCVSPPMSSGPISNIEPTSP  
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GAPFSPAQAGLTTKKDPTVLPLVQAAPKNPSFQSTSSSPEIPLSPEATLAKKSLGEPLP  
IGKPASSMTSPLGVNSSASVIKTDSYAGPDSAGPLLKSSLITPTVAAPFLESADPAGVAP  
TTAKGTSTYTTTASPFLEGTVSLAPKNHPVKEGTLTTLPLVPTASENCPVAPSPQNTCAP  
LATLVLAPEIPKSVSPSLPPAGTPPGTKKVDGISHTSALAPVASSPKECPTEDSGASAT  
ASSKGTLYLADSPSPLGVSVSPQTKRPPTKKGSAGPDTPIGNLSSPVSPVEASFLPENS  
LSFQGSKDSPATTHSPTPPSPKGAPTPSAVTPLSPKGVTLPPKETPTPSVVNLFPKKEGP  
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GSPAATPFPPKGASTPPAATPPSPKGSPAATPLPKGAPTPAATLPSKGGPATPSLKGAP  
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KSGPGTPPPKGAPTPPAVTPPSPKGTPTLPATTPSSKGGPTTPSSKEGTPPAATPSHKG  
GPAMTPPSPKRGAIPSPKGDTPSAVIPLSPKKAPATPVTREGAATPSKGDLTTPAVTP  
VSLKKAPATSAPKGGPATPSSKGDPTLPAVTPPSPKEPPAPKQVATSSSPKKAPATPAPM  
GAPTLPAVIPSSPKEVPATPSSRRDPIAPTATLLSKKTPATLAPKEALIPPAMTVPSPKK  
TPAIPTPKEAPATPSSKEASSPPAVTPSTYKGAPSPKELLIPPAVTSPSPKEAPTPPAVT  
PPSPEKGATPAPKGTPSPVTPSSLKDSPTSPASVTCKMGATVPQASKGLPAKKGPTA  
LKEVLVAPAPESTPIITAPTRKGPQTKKSSATSPPICPDPSAKNGSKGPLSTVAPAPLLP  
VQKDSSKTAKGKDASHSPKGPLAPPESKASTPLTAAAFKVLKPESASVSAAPSPPVSL  
PLAPSPVPTLPPKQQLPSSPGLVLESPSKPLAPADEDELLPLIPPEISGGVPFQSVLV  
NMPTPKSAGIPVPTPSAKQPVTKNNKSGTESDSDESVPLEEQDSTQATTQQAQLAAAA  
EIDEEPVS KAKQSRSEKKARKAMSKLGLRQVTGVTIRKSKNILFVITKPDVYKSPAS  
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VKDIELVMSQANVSRAKAVRALKNNSNDIVNAIMELTM

>sp|Q96HR8|NAF1\_HUMAN H/ACA ribonucleoprotein complex non-core subunit NAF1 OS=Homo sapiens GN=NAF1 PE=1 SV=2

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DSETSDSSSSSSSSSSSSSSSSSSSSCISLPPVLSGDGDDLQIEKENKNFPLKTKDELLLN

ELPSVEELTIILPEDIELKPLGMVSSIIIEQLVIIESMTNLPPVNEETVIFKSDRQAAGKI  
FEIFGPVAHPFYVLRFNSSDHIESKGIKIKETMYFAPSMKDFYIFTEKLKQDKGSDAS  
WKNDQEPPPEALDFSDDEKEKEAKQRKKSQIQGRKKLKSEFNPEGDFTEVHQNWNHSS  
ASEHAKGYRNFETRGRSRRYPRSCHGRPPPQHFYNSEHMSQETSGFPSQRQNNPIMP  
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>sp|Q9Y3Q0|NALD2\_HUMAN N-acetylated-alpha-linked acidic dipeptidase 2 OS=Homo sapiens  
GN=NAALAD2 PE=1 SV=1

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KSFLRSFTKLPHLAGTEQNFLAKKIQTQWKFGLDLAKLVHYDVLLSYNETNANYISI  
VDEHETEIFKTSYLEPPPDGYENVNTIVPPYNAFSAQGMPEGDLVYVNYARTEDFFKLER  
EMGINCTGKIVIRYKIFRGKVKVKNAMLAGAIGIILYSDPADYFAPEVQYPKGNLPG  
TAAQRGNVLNLNGAGDPLTPGYPAKEYTFRLDVEEGVGIPRIPVHPVIGYNDAEILLRVLG  
GIAPDKSWKALNVSYSIGPGFTGSDSFRKVRMHVYNINKITRIYVVGITIRGSVEPDR  
YVILGGHRDSWVFGAIDPTSGVAVLQEIARSFGKLSKGRWRPRRTIIFASWDAEEFGLLG  
STEWAEENVKILQERSIAYINSDSSIEGNYTLRVDCTPLLYQLVYKLTKEIPSPDDGFES  
KSLYESWLEKDPSPENKNLPRINKLGGSGDFEAYFQRLGIASGRARYTKNKKTDKYSSYP  
VYHTIYETFELVEKFYDPTFKKQLSVAQLRGALVYELVDSKIIPFNIQDYAEALKNYAAS  
IYNLSKKHDQQLTDHGVSFDSLFAVKNFSEASDFHKRLIQVDLNNPIAVRMMNDQLML  
LERAFIDPLGLPGKLFYRHIIFAPSSHKNYAGESFPGIYDAIFDIENKANSRLAWKEVKK  
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>sp|Q9UQQ1|NALDL\_HUMAN N-acetylated-alpha-linked acidic dipeptidase-like protein OS=Homo  
sapiens GN=NAALADL1 PE=1 SV=2

MQWTKVLGLGLGAAALLGLGIILGHFAIPKKANSLAPQDLLEILETVMGQLDAHRIREN  
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GPTGGIIHSCHRTEENVTEGQGGPDVVQPYAAYAPSGTPQGGLLVYANRGAEEDFKELQTQ  
GIKLEGTIALTRYGGVGRGAKAVNAAKHGVAGVLVYTDPADINDGLSSPDETFPNSWYLP  
PSGVERGSYYEYFGDPLTPYLPAPVSSFRVDLANVSGFPPIPTQPIGFQDARDLLCNLNG  
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RYVLYGNHRDSWVHGAVDPSSGTAVLLELSRVLGTLLKGTWRPRRSIVFASWGAEFGL  
IGSTEFTEEFFNKLQERTVAYINVDISVFANATLRVQGTTPVQSVVFSATKEIRSPGPGD  
LSIYDNWIRYFNRSSPVYGLVPSLGLGAGSDYAPFVHFLGISSMDIAYTYDRSKTSARI  
YPTYHTAFDFTDYVDKFLDPGFSSHQAVARTAGSVILRLSDSFFLPLKVS DYSETLRSFL  
QAAQQDLGALLEQHSISLGPLTAVEKFEAEAAALGQRISTLKQKSPDPLQVRMLNDQLM  
LLERTFLNPRAFPEERYSHVLWAPRTGSVVTFPGLSNACSRARDTASGSEAWAEVQRQL  
SIVVTALEGAAATLRPVADL

>sp|Q96MN2|NALP4\_HUMAN NACHT, LRR and PYD domains-containing protein 4 OS=Homo sapiens  
GN=NLRP4 PE=1 SV=3

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLI  
KHVEEQQAWNITLRFQKMDRKDLCKVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIH  
LYFEEEVKQEECDHLDRLFAPKEAGKQPRTVIIQGPQGIGKTTLLMKLMMAWSDNKIFRD  
RFLYTFYFCCRELRELPTSLADLISREWPDPAAPITEIVSQPERLLFVIDSFEELQGG  
NEPDSDLCGDLMEKRPVQVLLSSLLRKMLPEASLLIAIKPVCPELRDQVTISEIYQPR  
GFNESDRLVYFCCFFKDPKRAEAFNLVRESEQLFSICQIPLLCWILCTSLKQEMQKGD

LALTCQSTTSVYSSVFVNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWDTDFEFCEDDLR  
RNGVVDADIPALLGTKILLKYGERESSYVFLHVCIQEFCAALFYLLKSHLDHPHPAVRCV  
QELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQEIKQQIHQCLKSLGE  
RGNPQQQVDSLAIIFYCLFEMQDPAFVKQAVNLLQEANFHI IDNVDLVVSAYCLKYCSSLR  
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGHLRELQVQDSTLSESTFVTWCN  
QLRHPSCTRLQKLGINNVSFSGQSVLLFEVLFYQPDLYLSFTLTCLSRDDIRSLCDALNY  
PAGNVKELALVNCHLSPIDCEVLAGLLTNNKKLTYNVSCNQLDTGVPPLLCEALCSPDTV  
LVYLMLAFCHLSEQCEYISEMLLRNKSRYLDLSANVLKDEGLKTLCEALKHPDCCLDS  
LCLVKCFITAAGCEDLASALISNQLKILQIGCNEIGDVGVLCCRALHTDRCLEILGL  
EECGLTSTCKDLASVLTCSKTLQQLNLTLNTLDHTGVVVLCEALRHPECALQVLGLRKT  
DFDEETQALLTAEERNPNLTIITDDCDTITRVEI

>sp|Q86W28|NALP8\_HUMAN NACHT, LRR and PYD domains-containing protein 8 OS=Homo sapiens  
GN=NLRP8 PE=2 SV=2

MSDVNPPSDTPIPFSSSSTHSHIPWTFSCYPGSPCENGVMYMRNVSHEELQRFKQLL  
LTELSTGTMPITWDQVETASWAEVVHLLIERFPGRRAWDTSNIFAIMNCDKMCVVVRRE  
INAILPTLEPEDLNVGETQVNLEEGESGKIRRYKSNVMEKFFPIWDITWPGNQRDFFYQ  
GVHRHEEYLPCLLLPKRPQGRPKTVAIQGAPGIGKTI LAKKVMFEWARNKFYAHKRWCA  
FYFHCQEVNQTTDQSFSELEQKWPGSQDLVSKIMSKPDQLLLLLDGFEELTSTLIDRLE  
DLSEDWRQKLPGSVLLSSLLSKTMLPEATLLIMIRFTSWQTCKPLLKCPSLVTLPGFNTM  
EKIKYFQMYFGHTEEGDQVLSFAMENTILFSMCRVPVVCWMVCSGLKQMERGNNTQSC  
PNATSVFVRYISSLPFTRAENFSRKIHQAQLEGLCHLAADSMWHRKWVLGKEDLEEAKLD  
QTGVTAFLGMSILRRIAGEEDHYVFTLVTFQEFAALFYVLCFPQRLKNFHVLSHVNIQR  
LIASPRGSKSYLSHMGFLFLGFLNEACASAVEQSFQCKVSFGNKRKLLKVIPLLHKCDPP  
SPGSGVPQLFYCLHEIREAFVSQALNDYHKVVLIRIGNNEKVQVSAFCLKRCQYLHEVEL  
TVTLNFMNVWKLSSSSHGSEAPESNGLHRWWQDLCSVFATNDKLEVLMTNSVLGPPFL  
KALAAALRHPQCKLQKLLLRVNSTMLNQDLIGVLTGNQHLRYLEIQHVEVESKAVKLLC  
RVLRSPRCRLQCLREDCLATPRIWTDLGNNLQGNHGLKTLILRKNSLENCGAYYLSVAQ  
LERLSIENCNLTQLTCESLASCLRQSKMLTHLSLAENALKDEGAKHIWNALPHLRCPQR  
LVLRKCDLTFNCCQDMISALCKNKTLSLDLSFNLSKDDGVILLCEALKNPDCTLQILEL  
ENCLFTSICCQAMASMLRKNQHLRHLDSLKNAIGVYGILTCEAFSSQKKREEVIFCIPA  
WTRITSFSPTPHPPDFTGKSDCLSQINP

>sp|Q7RTR0|NALP9\_HUMAN NACHT, LRR and PYD domains-containing protein 9 OS=Homo sapiens  
GN=NLRP9 PE=2 SV=1

MAESFFSDFGLLWYLKELRKEEFWKFKELLKQPLEKFELKPIPWAEKKASKEDVAKLLD  
KHYPGKQAW EVTNLFLQINRKDLWTKAQEEMRNKLNPYRKHMKETFQLIWEKETCLHVP  
EHFYKETMKNEYKELNDAYTAAARRHTVVLEGPDGIGKTTLLRKVMLDWAEGNLWKDRFT  
FVFFLVNCEMNGIAETSLELLSRDWPESEKIEDIFSQPERILFIMDGFEQLKFNLQLK  
ADLSDDWRQRQPMPIILSSLLQKKMLPESSLLIALGKLAMQKHYFMLRHPKLIKLLGFSE  
SEKSYFSYFFGEKSALKVFNFRDNGPLFILCHNPFTCWLVCTCVKQRLERGEDLEIN  
SQNTTYLYASFLTTFVKAGSQSFPPKVNRLKSLCALAAEGIWYTFVFSHGLRRNGL  
SESEGMVWVGMRLQRRGDCFAFMHLCIQEFCAAMFYLLKRPKDDPNPAIGSITQLVRAS  
VVQPQTLLTQVGIFMFGISTEEIVSMLETSFGFPLSKDLKQEITQCLESLSQCEADREAI  
AFQELFIGLFETQEKEFVTKVMNFFEEVFIYIGNIEHLVIASFCLKHCQHLTTLRMCVEN  
IFPDDSGCISDYNEKLVYWRELCSMFITNKNFQILDMENTSLLDDPSLAAILCKALAPVCK

LRKLIFTSVYFGHDSSELFKAVLHNPHLKLLSLYGTSLSQSDIRHLCETLKHPMCKIEELI  
LGKCDISSEVCEDIASVLACNSKLKHLSLVENPLRDEGMTLLCEALKHSHCALERLMLMY  
CCLTSVSCDSISEVLLCSKSLSLDLGSNALEDNGVASLCAALKHPGCSIRELWLMGCFL  
TSDSCKDIAAVLICNGKLKTLKLGHNEIGDTGVRQLCAALQHPHCKLECLGLQTCPI TRA  
CCDDIAAALIACKTLRSLNLDWIALDADAVVVLCEALSHPCALQMLGLHKSGFDEETQK  
ILMSVEEKIPHLTISHGPWIDEEYKIRGVLL

>sp|Q93070|NAR4\_HUMAN Ecto-ADP-ribosyltransferase 4 OS=Homo sapiens GN=ART4 PE=2 SV=2

MGPLINRCKKILLPTTVPPATMRIWLLGGLLPFLLLLSGLQRPTEGSEVAIKIDFDFAPG  
SFDDQYQGCSKQVMEKLTQGDYFTKDIEAQKNYFRMWQKAHLAWLNQGKVL PQNMTTTHA  
VAILFYTLNSNVHSDFTRAMASVARTPQQYERSFHFYLYHYLTSAIQLLRKDSIMENG  
LCYEVHYRTKDVHFNAYTGATIRFGQFLSTSLLKEEAQEFGNQTLFTIFTCLGAPVQYFS  
LKKEVLIPPYELFKVINMSYHPRGNWLQLRSTGNLSTYNCQLLKASSKKCIPDPIAIASL  
SFLTSVIIFSKSRV

>sp|Q69YL0|NCAS2\_HUMAN Uncharacterized protein NCBP2-AS2 OS=Homo sapiens GN=NCBP2-AS2  
PE=1 SV=1

MVLRRLAALLHSPQLVERLSESRPIRRAAQLTAFALLQAQLRGQDAARRLQDLAAGPVG  
SLCRAERFRDAFTQELRRGLRGRSGPPPGSQRGPGANI

>sp|P52298|NCBP2\_HUMAN Nuclear cap-binding protein subunit 2 OS=Homo sapiens GN=NCBP2  
PE=1 SV=1

MSGGLLKALRSDSYVELSQYRDQHFRGDNEEQEKLLKKSCTLYVGNLSFYTTEEQIYELF  
SKSGDIKKIIMGLDKMKKTACGFCFVEYYSRADAENAMRYINGTRLDDRIIRTDWDAGFK  
EGRQYGRGRSGGQVRDEYRQDYDAGRGGYGKLAQNQ

>sp|Q15080|NCF4\_HUMAN Neutrophil cytosol factor 4 OS=Homo sapiens GN=NCF4 PE=1 SV=2

MAVAQQLRAESDFEQLPDDVAISANIADIEEKRGFTSHFVFVIEVKTKGGSKYLIYRRYR  
QFHALQSKLEERFGPDSKSSALACTLPTLPAKVYVGVKQEI AEMRIPALNAYMKSLLSLP  
VWVLMDEDVRIFFYQSPYDSEQVPQALRRLRPTRKVKSVSPQGNSVDRMAAPRAEALFD  
FTGNSKLELNFKAGDVIFLLSRINKDWLEGTVRGATGIFPLSFVKILKDFEEDDPTNWL  
RCYYYEDTISTIKDIAVEEDLSSTPLLKDLELTRREFQREDIALNYRDAEGDLVRLLSD  
EDVALMVRQARGLPSQKRLFPWKLHITQKDNRYRVYNTMP

>sp|P16333|NCK1\_HUMAN Cytoplasmic protein NCK1 OS=Homo sapiens GN=NCK1 PE=1 SV=1

MAEEVVVAKFDYVAQQEQELDIKKNERLWLLDDSKSWVRNNSMNKTGFVPSNYVERKN  
SARKASIVKNLKDTLGIGKVKRKPSVPDSASPADDSFVDPGERLYDLNMPAYVKFNMAE  
REDELSLIKGTKVIVMEKCSGWWRGSYNGQVGWFPSPNYVTEEGDSPLGDHVGSLSEKLA  
AVVNNLNTGQVLHVQALYPFSSSND EELNFEKGDVMDVIEKPENDEPWWKCRKINGMVG  
LVPKNYVTVMQNNPLTSGLEPSPQCDYIRPSLTGKFAGNPWYYGKVTRHQAEMALNERG  
HEGDFLIRDSESSPNDFSVSLKAQGNKHFKVQLKETVYCIGQRKFSTMEELVEHYKKAP  
IFTSEQGEKLYLVKHLS

>sp|O60721|NCKX1\_HUMAN Sodium/potassium/calcium exchanger 1 OS=Homo sapiens GN=SLC24A1  
PE=1 SV=1

MGKLIRMGPQERWLLRTKRLHWSRLLFLLGMLIIGSTYQHLRRPRGLSSLWA AVSSHQPI  
KLASRDLSSSEMMMMSSSPSKPSSEMGGKMLVPQASVGSDEATLSMTVENIP SMPKRTAK  
MIPTTTKNNSPTAAGTERRKEDTPTSSRTLTYTSTSSRQIVKKYTPTPRGEMKSYSPT  
QVREKVKYTPSPRGRRVGTYPSTFMTMETSHAITPRTTVKDSITATYKILETNSLKRI  
MEETPTTLKGMFDSTPTFLTHEVEANVLTSPRSVMEKNNLFP PRRVESNSSAHPWGLVG

KSNPKTPQGTVLLHTPATSEGQVTISTMTGSSPAETKAFTAAWSLRNPSRPTSVSAIKTA  
PAIVWRLAKKPSTAPSTSTTPTVRAKLTMQVHHCVVVKPTPAMLTTPSPSLTTALLPEEL  
SPSPSVLPPLPDLHPKGEYPPDLFSVEERRQGWWVLHVFGMMYVFVALAIVCDEYFVPA  
LGVITDKLQISEDVAGATFMAAGGSAPELFTSLIGVFISHSNVGIGTIVGSAVFNILFVI  
GTCSLFSREILNLTWPLFRDVSFYILDLIMLILFFLDLIAWWESLLLLLAYAFYVFTM  
KWNKHIEVWVKEQLSRRPVAKVMALEDLSKPGDGAIIVDELQDNKKLKLPSLLTRGSSST  
SLHNSTIRSTIYQLMLHSLDPLREVRLAKEKEEESLNQGARAQPQAKAESKPEEEPAKL  
PAVTVTPAPVPDIKGDQKENPGGQEDVAEAESTGEMPGEGETAGEGETEEKSGGETQPE  
GEGETETQKGEECEDENEAEGKGDNEGEDEGEIHAEDGEMKGNEGETESQELSAENHGE  
AKNDEKGVEDGGSDGGDSEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEKGNEEPLSLD  
WPETRQKQAIYLFLLPIVFPLWLTVPDVRREQSRKFFVFTFLGSIWMIAMFSYLMVWWAH  
QVGETIGISEEIMGLTILAAGTSIPDLITSVIVARKGLGDMVSSSVGSNIFDITVGLPV  
PWLLFSLINGLQVPVPSSNGLFCAIVLLFLMLLFVISSIASCKWRMNKILGFTMFLLYFV  
FLIISVMLEDRIISCPVSV

>sp|Q9BZM5|N2DL2\_HUMAN NKG2D ligand 2 OS=Homo sapiens GN=ULBP2 PE=1 SV=1

MAAAAATKILLCLPLLLLLSGWSRAGRADPHSLCYDITVIPKFRPGPRWCAVQQGVDEKT  
FLHYDCGNKTVTPVSPLGKKLVNTTAWKAQNPVLRVVDILTEQLRDIQLENYTPKEPLT  
LQARMSCEQKAEGHSSGSWQFSFDGQIFLLFDSEKRMWTTVHPGARKMKEKWENDKVVAM  
SFHYFSMGDCIGWLEDFLMGMDSTLEPSAGAPLAMSSGTTQLRATATTILCCLLIILPC  
FILPGI

>sp|Q92802|N42L2\_HUMAN NEDD4-binding protein 2-like 2 OS=Homo sapiens GN=N4BP2L2 PE=1 SV=1

MSYGEIEGKFLGPREEVTSEPRCKKLKSTTESYVFHNHNSNADFHRIQEKTGNDWVPVTII  
DVRGHSYLQENKIKTTDLHRPLHDEMPGNRPDVIESIDSQVLQEARPPLVSADDEIYSTS  
KAFIGPIYKPPEKKRNEGRNEAHVLNGINDRGQKEKQKFNSEKSEIDNELFQFYKEIE  
ELEKEKDG FENSCKESEPSQE QVFPFYEGHNGLLKPDEEKDLSNKAMPSHCDYQQNLG  
NEPDKYPCNGQVIPTFCDSFTSFRPEWQSVYPFIVPYGPPLPSLNYHLNIQRFSGPPNP  
PSNIFQAQDDSQIQNGYVNNCHVNWNCMTFDQNNETDCSENRSSVHPSGNGCSMQDRY  
VSNGFCEVRERCWKDHCMDKHNGTDRFVNQQFQEEKLNKLQKLLILLRGLPGSGKTTLSR  
ILLGQNRDGI VFSTDDYFHHQDGYRYNVNQLGDAHDWNQNRKQAIDQGRSPVIIDNTNI  
QAWEMKPYVEVAIGKGYRVEFHEPETWWKFDPEELEKRNKHGVSRRKIAQMLDRYEQMS  
ISIVMNSVEPSHKSTQRPPPPQGRQRWGGSLGSHNRVCVTNNH

>sp|Q86UY6|NAA40\_HUMAN N-alpha-acetyltransferase 40 OS=Homo sapiens GN=NAA40 PE=1 SV=1

MGRKSSKAKEKKQRLEERAAMDCAKVDAAANRLGDPLEAFPVFKKYDRNGLNVSIECK  
RVSGLEPATVDWAFDLTKTNMQTMYEQSEWGWDREKREEMTDDRAWYLI AWENSSVPVA  
FSHFRFDVECGDEVLYCYEVQLESKVRKGLGKFLIQILQLMANSTQMKKVMLTVFKHNH  
GAYQFFREALQFEIDSSPSMSGCCGEDCSYEILSRRTKFGDSHHSHAGGHCGGCC

>sp|Q9H7X0|NAA60\_HUMAN N-alpha-acetyltransferase 60 OS=Homo sapiens GN=NAA60 PE=1 SV=1

MTEVVPSSALSEVSLRLLCHDDIDTVKHLCDWFPIEYPDSWYRDITSNKKFFSLAATYR  
GAIVGMIVAEIKNRKTIHKEDGILASNFSVDTQVAYILSLGVVKEFRKHGIGSLLES  
KDHISTTAQDHCKAIYLVLTNTNAINFYENRDFKQHHLPPYYYSIRGVLKDGFTYVLY  
INGGHPPWTILDYIQLGSLASLSPCSIPHRVYRQAHSLLCSFLPWSGISSKSGIEYSR  
TM

>sp|Q13506|NAB1\_HUMAN NGFI-A-binding protein 1 OS=Homo sapiens GN=NAB1 PE=1 SV=2

MAAALPRTLGEQLYRILQKANLLSYFDAFIQQGGDDVQQLCEAGEEEFLEIMALVGMAS  
KPLHVRRLQKALRDWVTNPGLFNQPLTSLPVSSIPIYKLEGSPTWLGISCSYERSSNA  
REPHLKIPKCAATTCVQSLGQKSDVVGSLALQSVGESRLWQGHATESEHSLSPADLGS  
PASPKESEALDAAAALSVAECVERMAPTLPKSDLNEVKELLKTNKKLAKMIGHIFEMND  
DDPHKEEEEIRKYSAYGRFDSKRKDGKHLTLHELTVNAAAQLCVKDALLTRRDEL FAL  
ARQISREVTYKYTYRTTKSKCGERDELSPKRIKVEDGFDPDFQDSVQTLFQQARAKSEELA  
ALSSQQPEKVMKQMEFLCNQAGYERLQHAERRLSAGLYRQSSEEHSPNGLTSDNSDGQG  
ERPLNLRMPNLQNRQPHHFVVDGELSRLYPSEAKSHSSESLGILKDYPHSAFTLEKKVIK  
TEPEDSR

>sp|P57103|NAC3\_HUMAN Sodium/calcium exchanger 3 OS=Homo sapiens GN=SLC8A3 PE=1 SV=2

MAWLRLQPLTSAFLHFGLVTFVLFLNGLRAEAGGSGDVPSTGQNNESCSGSSDCKEGVIL  
PIWYPENPSLGDKIARVIVYFVALIYMFLGVSIIADRFMASIEVITSQEREVTIKKPNGE  
TSTTTIRVWNETVSNLTLMALGSSAPEILLSLIEVCGHGFIAAGLGPSTIVGSAAFNMF I  
IIGICVYVIPDGETRIKHLRVFFITAAWSIFAYIWLYMILAVFSPGVVQVWEGLLTLFF  
FPVCVLLAWVADKRLLFYKYMHHKYRTDKHRGII IETEGDHPKGIEMDKMMNSHFLDGN  
LVPLEGKEVDESRRMIRILKDLKQKHPEKDLDQLVEMANYALSHQQKSRAFYRIQATR  
MMTGAGNILKKHAAEQAKKASSMSEVHTDEPEDFISKVFFDPCSYQCLENCGAVLLTVVR  
KGGDMSKTMVVDYKTEDGSANAGADYEFTEGTVVLKPGETQKEFSVGIIIDDDIFEDEHF  
FVRLSNVRIEEEEQPEEGMPPAIFNSLPLPRAVLASPCVATVTILDDDHAGIFTFECDTIH  
VSESIGVMEVKVLR TSGARGTVIVPFRTVEGTAKGGGEDFEDTYGELEFKNDET VKTIRV  
KIVDEEEYERQENFFIALGEPKWMERGISALLSPDVTDRKLTMEEEEAKRIAEMGKPV L  
GEHPKLEVIIEESYEFKTTVDKLIKKTNLALVVGTHSWRDQFMEAITSAAAGDEDEDESG  
EERLPSCFDYVMHFLT VFWKVLFAVPPTEYCHGWACFAVSILIIIGMLTAIIGDLASHFG  
CTIGLKDSVTAVVFVAFGTSVPD TFASKAAALQDVYADASIGNVTGSNAVNVLGIGLAW  
SVAAYWALQGQEFHVSAGTLAFSVTLFTIFAFVCISVLLYRRRPHLGGELGGPRGCKLA  
TTWLFVSLWLLYILFATLEAYCYIKGF

>sp|Q9BWU0|NADAP\_HUMAN Kanadaplin OS=Homo sapiens GN=SLC4A1AP PE=1 SV=1

MLAPLRNAPGREGATSPSPPTDATGSLGEWDVDRNVKTEGWVSKERISKLHRLRMADILS  
QSETLASQDLSGDFKKPALPVSPAARSKAPASSSSNPPEVQKEGPTALQDSNSGEPDIPP  
PQPDCGDFRSLQEEQSRPPTAVSSPGPARAPPYQEPWGGPATAPYSLET LKGGTILGT  
RSLKGTSYCLFGR LSGDCVLEHPSVSR YHAVLQHRASGPDGECDSNGPGFYLYDLGSTH  
GTFLNKTRIPRPTYCRVHVGHVVRFGGSTR LFI LQGPEEDREAESLTVTQLKELRKQQQ  
ILLEKKMLGEDSDEEEEMDTSEKINAGSQDDEMCTWGMGEDAVEDDAEENPIVLEFQQ  
EREA FYIKDPKKALQGFFDREGEELEYEFDEQGHSTWLCRVRLPVDDSTGKQLVAEAIHS  
GKKKEAMIQCSLEACRILDTLGLLRQEAVSRKRKAKNWEDEDFYSDDDTFLDRTGLIEK  
KRLNRMKKAGKIDEKPTFESLVAKLND AERELSEISERLKASSQVLSSESPSQDSLDAFM  
SEMKSGSTLDGVSRRKHLRTEFELRKEQRLKGLIKIVKPAEIPELKKTETQTGAENKA  
KKLTLPFGAMKGGSKFKLKTGTVGKLPPKRPELPPTLMRMKDEPEVEEEEEEEEEEEKE  
KEEHEKKKLEDGSLSRPQPEIEPEAAVQEMRPPTDLTHFKETQTHENMSQLSEEQNKDY  
QDCSKTTS LCAGPSASKNEYEKSRGELKKKKTGPGKLPPTLSSKYPEDDPDYCVWPPE  
GQSGDGRTHLNDKYG Y

>sp|P17050|NAGAB\_HUMAN Alpha-N-acetylgalactosaminidase OS=Homo sapiens GN=NAGA PE=1 SV=2

MLLKTVLLGHVAQVLM LNDGLLQTPPMGWLAWERFCNINCDDEPKNCISEQLFMEAD  
RMAQDGWRDMGYTYLNIDDCWIGGRDASGR LMPDKRFPHGIPFLADYVHSLGLKGIYA

DMGNFTCMGYPGTTLDKVVQDAQTFAEWKVDMLKLDGCFSTPEERAQGYPKMAAALNATG  
RPIAFSCSWPAYEGGLPPRVNYSLLADICNLWRNYDDIQDSWWSVLSILNWFVEHQDILQ  
PVAGPGHWNDPDMLLIGNFGLSLEQSRQMALWTVLAAPLLMSTDLRTISAQNMDILQNP  
LMIKINQDPLGIQGRRIHKEKSLIEVYMRPLSNKASALVFFSCRTDMPYRYHSSLGQLNF  
TGSVIYEAQDVYSGDIISGLRDETNTFTVIINPSGVVMWYLYPIKNLEMSQQ

>sp|O96009|NAPSA\_HUMAN Napsin-A OS=Homo sapiens GN=NAPSA PE=1 SV=1

MSPPLQLPLLLLLPLLNVEPSGATLIRIPLHRVQPGRRILNLLRGWREPAELPKLGAPS  
PGDKPIFVPLSNYRDVQYFGEIGLGTTPQNFTVAFDTGSSNLWVPSRRCHFFSVPCWLHH  
RFDPKASSSFQANGTKFAIQYGTGRVDGILSEDKLTIGGIKGASVIFGEALWEPSLVFAF  
AHFDGILGLGFPILSVEGVRPPMDVLVEQGLLDKPVFSFYLNRPDPEPDGGELVLGGSDP  
AHYIPPLTFVPVTPPAYWQIHMERVKVGPGTLCAKGCAAILDTGTSLITGPTEEIRALH  
AAIGGIPLLAGHEYIILCSEIPKLPAVSFLLGGVWFNLTAHDYVIQTTRNGVRLCLSGFQA  
LDVPPPAGPFWILGDVFLGTYVAVFDRGDMKSSARVGLARARTRGADLGWGETAQAQFPG

>sp|P52961|NAR1\_HUMAN GPI-linked NAD(P) (+)--arginine ADP-ribosyltransferase 1 OS=Homo sapiens GN=ART1 PE=2 SV=2

MQMPAMMSLLLVSGLMEALQAQSHPI TRRDLFSQEIQLDMALASFDDQYAGCAAAMTAA  
LPDLNHTFEFQANQVYADSWTLASSQWQERQARWPEWSLSPTRSPPLGFRDEHGVALLA  
YTANSLPHKEFNAAVREAGRSRAHYLHHFSFKTLHFLLTEALQLLGGSGQRPPRCHQVFRG  
VHGLRFRPAGPRATVRLGGFASASLKHVAAQQFGEDTFFGIWTCLGAPIKGYSFFPGEEE  
VLIPPFETFQVINASRLAQGPARIYLRALGKHSTYNCEYIKDKKCKSGPCHLDNSAMGQS  
PLSAVWSLLLLLWFLVVRAFPDGPGLL

>sp|Q9H6Q4|NARFL\_HUMAN Cytosolic Fe-S cluster assembly factor NARFL OS=Homo sapiens GN=NARFL PE=1 SV=1

MASPFSGALQLTDLDDFIGPSQECIKPVKVEKRAGSGVAKIRIEDDGSYFQINQDGGTRR  
LEKAKVSLNDCLACSGCITSATVLIITQQSHEELKKVLDANKMAAPSQQRLVVVSVSPQS  
RASLAARFQLNPTDTARKLTSFFKKIGVHFVFDTAFSRHFSLLESQREFVRRFRGQADCR  
QALPLLASACPGWICYAEKTHGSFILPHISTARSPQQVMGSLVKDFFAQQQHLTPDKIYH  
VTVMPCYDKKLEASRPDFFNQEHQTRDVCVLTTEGEVFRLLLEEGVSLPDLEPAPLDSLC  
SGASAEPTSHRGGSGGYLEHVFRHAARELFGIHVAEVTYKPLRNKDFQEVTLEKEGQV  
LLHFAMAYGFRNIQNLVQRLKRGRCPHYHYVEVMACPSGCLNGGGQLQAPDRPSRELLQHV  
ERLYGMVRAEAPEDAPGVQELYTHWLQGTDESECAGRLHTQYHAVEKASTGLGIRW

>sp|Q9H0A0|NAT10\_HUMAN RNA cytidine acetyltransferase OS=Homo sapiens GN=NAT10 PE=1 SV=2

MHRKKVDNRIRILIENGVAERQSLFVVVGDRGKDQVILHHMLSKATVKARPSVLWCYK  
KELGFSSSHRRKMRQLQKKIKNGTLNIKQDDPFELFIAATNIRYCYNETHKILGNTFGM  
CVLQDFEALTPNLLARTVETVEGGGLVVILLRTMNSLKQLYTVTMDVHSRYRTEAHQDVV  
GRFNERFILSLASCKKCLVIDDQLNILPISSHVATMEALPPQTPDES LGPSDLELRELKE  
SLQDTQPVGVLVDCCKTLDQAKAVLKFIEGISEKTLRSTVALTAARGRGSAAALGLAIAG  
AVAFGYSNIFVTSPSPDNLHTLFEFVFKGFDALQYQEHLDYEI IQSLNPEFNKAVIRNV  
FREHRQTIQYIHPADAVKLGAELVVIDEAAAIPLPLVKSLLGPYLVMASITNGYEGTG  
RSLSLKLIQQLRQSAQSQVSTTAENKTTTTARLASARTLYEVS LQESIRYAPGDAVEKW  
LNDLLCLDCLNITRIVSGCPLPEACELYVNRDTLFCYHKASEVFLQRLMALYVASHYKN  
SPNDLQMLSDAPAHHLFCLLPVPPTQNALPEVLAVIQVCLEGEISRQSILNSLSRGKKA  
SGDLIPWTVSEQFDPDFGGLSGGRVVRIAVHPDYQMGYGSRALQLLQMYEGRFPCL  
EKVLETPQEIHVSSEAVSLLEEVITPRKDLPLLLKLNERPAPERLDYLGVSYGLTPRLL

KFWKRAGFVPVYLRQTPNDLTGEHSCIMLKTLTDEDEADQGGWLAAFWKDFRRRFLALLS  
YQFSTFSPSLALNIIQNRNMGKPAQPALSREELEALFLPYDLKRLEMYSRNMVDYHLIMD  
MIPAISRIYFLNQLGDLALSAAQSALLLGIGLQHKSVQLEKEIELPSGQLMGLFNRIIR  
KVVKL FNEVQEKAIEEQMVAADVMEPTMKTLSDDLDEAAKEFQEKHKKEVGKLSMDL  
SEYIIRGDDEEWNEVLNKAGPNASIIISLKSDDKKRLEAKQEPKQSKKLKNRETKNKKDMK  
LKRKK

>sp|Q8WUY8|NAT14\_HUMAN N-acetyltransferase 14 OS=Homo sapiens GN=NAT14 PE=1 SV=1  
MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLA  
SFALALLLPVFLA VAAVKLGRLARWGS LPPPGGLGGPWVAVRSGSDVCGVLALAPGTNAG  
DGARVTRLVSRWHRRRGVGRLLAFAEARARAWAGGMGEPRARLVVPVAVAAWGVGGML  
EGCGYQAEGGWGCLGYTLVREFSKDL

>sp|Q8N9F0|NAT8L\_HUMAN N-acetylaspartate synthetase OS=Homo sapiens GN=NAT8L PE=1 SV=3  
MHCGPPDMVCETKIVAAEDHEALPGAKKDALLAAAGAMWPPLPAAPGPAAAPPAPPPAPV  
AQPHGGAGGAGPPGGRGVCIREFRAAEQEAARRIFYDGERIPNTAFRGLRQHPRALL  
YALLAALCFAVSRLLLLTCLVPAALLGLRYYSRKVI RAYLECALHTDMADIEQYYMKPP  
GSCFWAVLDGNVVGIVAARAHEEDNTVELLRMSVDSRFRGKGI AKALGRKVLFAV VHN  
YSAVVLGTTAVKVA AHKLYESLGRHMGASDHVLPGMTLSLAERLFFQVRYHRYRLQLR  
EE

>sp|Q8IVL0|NAV3\_HUMAN Neuron navigator 3 OS=Homo sapiens GN=NAV3 PE=1 SV=3  
MPVLGVASKLRQPAVGSKPVHTALPIPNLGTGSGHSSRPLELTETESSMLSCQLALKS  
TCEFGKKPLQGKAKEKEDSKIYTDWANHYLAKSGHKRLIKDLQDDIADGVLLAEIIQII  
ANEKVEDINGCPRSQSQMIENVCLVCLFLAARGVNVQGLSAEEIRNGNLKAILGLFFSLS  
RYKQQQHQQYYSLSVELQQRVTHASPPSEASQAKTQQDMQSSLAARYATQSNHSGIAT  
SQKKPTRLPGPSRVPAAGSSSKVQGASNLNRRSQSFNSIDKNKPPNYANGNEKDSSKGPQ  
SSSGVNGNVQPPSTAGQPPASAI PPSASKPWRSKSMNVKHSATSTMLTVKQSSTATSPT  
PSSDRLKPPVSEGVKTAPSGQKSMLEKFKLVNARTALRPPQPPSSGPSDGGKDDDAFSES  
GEMEGFNGLNSGGSTNSSPKVSPKLAPPKAGSKNLSNKKSLLPKEKEEKNRDNKNVCT  
EKPVKEEKDQVTEMAPKKTSKIASLIPKGSKTAAKESLIPSSSGIPKPGSKVPTVKQT  
ISPGSTASKESEKFRRTKGSQSLSKPI TMEKASASSCAPLEGREAGQASPSGSCTMT  
VAQSSGQSTGNGAVQLPQQQHSHPNATVAPFIYRAHSENEG TALPSADSCTSP TKMDL  
SYSKTAKQCLEEISGEDPETRRMRTVKNIADLRQNLEETMSSLRGTQISHSTLETTFDST  
VTTEVNGRTIPNLTSRPTMTWRLGQACPR LQAGDAPSLGAGYPRSGTSRFIHTDPSRFM  
YTTPLRRAAVSRLGNMSQIDMSEKASSDLMSSEVDVGGYMSDGDILGKSLRTDDINSGY  
MTDGLNLNLYTRSLNRIPDTATSRDIIQRGVHDVTVDADSWDDSSSVSSGLSDTLDNISTD  
DLNTTSSVSSYSNITVPSRKNTQLRTDSEKRSTDETWDSP EELKKPEEDFDSHG DAGGK  
WKTVSSGLPEDPEKAGQKASLSVSGTGSWRRGMSAQGGAPSRQKAGTSALKTPGKTDDAK  
ASEKGKAPLKGSSLQRSPDAGKSSGDEGKKPPSGIGRSTATSSFGFKKPSGVGSSAMIT  
SSGATITSGSATLGKIPKSAAGGKSNAGRKTSLDGSQNDQDVVLHVSSKTTLQYRSLPR  
PSKSSSGIPGRGGHRSSTSSIDSNVSSKSAGATT SKLREPTKIGSGRSSPVTVNQTDKE  
KEKVAVSDSESVSLSGSPKSSPTSASACGAQGLRQPGSKYPDIASPTFRRLFGAKAGGKS  
ASAPNTEGVKSSSVMPSPSTTLARQGSLESPSSGTGSMGSAGGLSGSSSPLFNKPSDLTT  
DVISLSHSLASSPASVHSFTSGGLVWAANMSSSSAGSKDTPSYQSM TSLHTSSESIDLPL  
SHHGSLSGLTTGTHEVQSLLMRTGSVRSTLSESMQLDRNTLPKKGLRYTPSSRQANQEEG  
KEWLRSHTGGLQDTGNQSPLVSPSAMSSAAGKYHFSNLVSPTNLSQFNLPGPSMMRSN



SIPAQDSSFDLYDDSQLCGSATSLEERPRAISHSGSFRDSMEEVHGSSLSLVSSTSSLYS  
TAEKAHSEQIHKLRRELVASQEKVATLTSQLSANAHLVAAFEKSLGNMTGRLQSLTMTA  
EQKESELIETRETIEMLKQNSAAQAAIQGALNGPDHPPKDLRIRRHSSSESVSSINSAT  
SHSSIGSGNDADSKKKKKKNWVNSRGSELRSSFKQAFGKKKSTKPPSSHSDIEELTDSSL  
PASPKLPHNAGDCGSASMKPSQSASASPLVWPPKKRQNGPVIYKHSRICECTEAEAEII  
LQLKSELREKELKLTDIRLEALSSAHHLDDQIREAMNRMQNEIEILKAENDRLKAETGNTA  
KPTRPPSESSSTSSSSSRQSLGLSLNLLNITEAVSSDILLDDAGDATGHKDGSRVKIIV  
SISKGYGRAKDQKSQAYLIGSIGVGKTKWDVLDGVIIRRLFKEYVFRIDTSTSLGLSSDC  
IASYICIGDLIRSHNLEVPELLPCGYLVGDNNIITVNLKGEENSLSDFVFDTLIPKPITQ  
RYFNLLMEHHRIILSGPSGTGKTYLANKLAEYVITKSGRKKTEDAIATFNVDHKSSKELQ  
QYLANLAEQCSADNNGVELPVVILDLNHHVGSLSDFNGFLNCKYNKCPYIIGTMNQGV  
SSSPNLELHHNFRWVLCANHTPEVKGFLGRYLRRKLEIEIERNIRNNDLVKIIDWIPKT  
WHHLNSFLETHSSSDVTIGPRLFLPCPMDVEGSRVWFMDLWNYSLVPYILEAVREGLQMY  
GKRTPWEDPSKWLDTPWSSATLPQESPALLQLRPEDVGYESCTSTKEATTSKHIPQTD  
TEGDPLMNMLMKLQEAANYSSSQSCDSESTSHHEDILDSSLESTL

>sp|Q6ZJN1|NBEL2\_HUMAN Neurobeachin-like protein 2 OS=Homo sapiens GN=NBEL2 PE=1 SV=2

MAASERLYELWLLYYAQKDLGYLQQWLKAFVGAFKKSISLSSLEPRRPEEAGAEPVLLPL  
DELHVLAEQLHQADLEQALLLLKLFILCRNLENIEAGRGQVLVPRVLALLTKLVAELKG  
CPPPQGRGTQLENVALHALLLCEGLFDPYQTWRRQRSGEVSSKEKSKYKFPPAALPQEF  
SAFFQESLQNADHLPPILLRLIHLFCAVLAGGKENGQMAVSDGSVKGLLSVVRGWSRGP  
APDPCLVPLALEALVGAVHVLHASRAPRGPPELRALLESYFHVLNADWPAGLSSGPPEAL  
VTLRVSMLEDAIPMMLACEDRPVLQATFLSNNCFEHLTRLIQNSKLYLQSRAPPEGDSLA  
TRLLTEPDVQKVLDQDQDAIAVHVVRVLTICMSDPSAKEVFKERIGYPHLQEVLSHGP  
PTHRLQELLNMAVEGDHSMCPPIRNEQPVVLVAQWLPSLPTAELRLFLAQRLRWLCD  
SCPASRATCVQAGLVGCLLETSLTGLALEARCQEQLLALLQALGRVSIKPMELRHLLRPR  
PGLDSEPGGAEAGKARHAGAVIRTLGSMARHQGPALRYFDLTPSMAGIMVPPVQRWPG  
PGFTFHAWLCLHPMDTAPTAPTRPLQRKQLYSFFTSSGSGFEAFFTAAGTLVVAVCTRK  
EYLTMLEPVSFADSAWHCAIVHVPGRPPFSQNLVHVYKDGHLVKTAPLRCPSLSEPF  
SCCIGSAGYRTTTTTGLTPPVATLAYTHPALTRSQSVASTGLGWGSLVAPLQEGS  
IDSTLAGTQDTRWGSPTSLEGELGAVAFHEALQATALRTLCTLGPNETAPFKPEGELHE  
LSTRLLHYSPQACKNNICLDLSPSHGLDGRLTGHRVETWDVKDVVNCVGGMGALLP  
RVAAQPKAEAGPAETHDLVGPELTSGHNTQGLVPLGKSSEERMERNAVAFLMLRNF  
LQGHMVNQESLVQCQGPATIGALLRKVPSWAMDMNVLSAQLLMEQVAAEGSGPLLYLLY  
QHLLFNFHLWTLSDFAVRLGHIQYMSSIVREHRQKLKKYGVQFILDALRTHYSPQRE  
LAADDLRTVQTSLLGLAREFLVRSLSADDVQVTQTMLSFLAATGDDGQAVGALDLLALL  
HGSLVQESLAVFLLEPGNLEVLALLVRPGSLPLLPDRVCKILRRLQQNERLPERSRQRL  
RLRECGLQGLVACLPEGTVPQLCQGLYKFLGADCLNLDLLAVVQSLQADLSVRDLI  
CRQLFHLIYGQPDVVRLLARQAGWQDVLTRYVLEAATAGSPPSPESPTSPKPAPPKP  
PTESPAEPSDVFLPSEAPCPDPDFYHALSPFCTPFDLGLERSVSGSGNTAGGGGSSGTL  
TPASQGTSPPLDGRPPFAAPGRHSSSLSNVLEDGSLPEPTISGDDTSNTSNPQQTSEE  
ELCNLLTNVLFVSTWRGVEGSDEAAWRERGQVFSVLTQLGASATLVRPPDCIKRSLEMM  
LESALTDIKEAPVGLASLTQALWLLRLLQDFLCAEGHGNQELWSEKLFEGVCSLLDRL  
GAWPHLANGTADLREMAQIGRLVLGYILLEDPQLHAQAYVRLHMLLQTAVPARREEACY  
VLSKLEAALGRVLNTSSLESATDEAGSPLAAAAAAAAAERCSWLVPVLRVTLDDRAYEPLG

LQWGLPSLPPTNGSPTFFEDFQAFCATPEWRHFIDKQVQPTMSQFEMDTYAKSHDLMSGF  
WNACYDMLMSSGQRRQWERAQSRRAFQELVLEPAQRRARLEGLRYTAVLKQQTQHSMAL  
LHWGALWRQLASPCGAWALRDTPIPRWKLSSAETYSRMRLKLVNHHFDPHLEASALRDN  
LGEVPLTPTEEASLPLAVTKEAKVSTPELLQEDQLGEDELALETPMEAAELDEQREKL  
VLSAECQLVTVVAVVPGLEVTQNVYFYDGSTERVETEEGIGYDFRRPLAQLREVHLRR  
FNLRRSALELFFIDQANYFLNFPCKVGTTPVSSPSQTPRPQPGPIPPHTQVRNQVYSWLL  
RLRPPSQGYLSSRSPQEMLRASGLTQKWVQREISNFEYLMQLNTIAGRTYNDLSQYPVFP  
WVLQDYVSPTLDLSNPAVFRDLSKPIGVVNPKHAQLVREKYESFEDPAGTIDKFHYGTHY  
SNAAGVMHYLIRVEPFTSLHVQLQSGRFDCSDRQFHSVAAAQARLESPADVKELEIPEFF  
YFPDFLENQNGFDLGLCLTNEKVGDVVLPWASSPEDFIQHRQALESEYVSAHLHEWI  
DLIFGYKQRGPAEEALNVFYCYTEGAVDLDHVTDERERKALEGIIISNFGQTPCQLLKE  
PHPTRLSAEEAAHRLARLDTNSPSIFQHLDELKAFFAEVSDGVPLVLALVPHRQPHSFI  
TQGSDDLVTVSASGLLGTHSWLPYDRNISNYFSFSKDPTMGSHKTQRLLSGPWVPGSGV  
SGQALAVAPDGKLLFSGGHWDGSLRVTALPRGKLLSQLSCHLDVVTCLALDTCGIYLIISG  
SRDTCMVWRLLHQGGLSVGLAPKPVQVLYGHGAAVSCVAISTELDMVSGSEDGTVIIH  
TVRRGQFVAALRPLGATFPGPIFHLALGSEGQIVVQSSAWERPGAQVTYSLHLYSVNGKL  
RASLPLAEQPTALTVTEDFVLLGTAQCALHILQLNTLLPAAPPLPMKVAIRSVAVTKERS  
HVLVGLEDGKLIVVAGQPSEVRSSQFARKLWRSSRRISQVSSGETEYNPTEAR

>sp|Q86XG9|NBPF5\_HUMAN Putative neuroblastoma breakpoint family member 5 OS=Homo sapiens  
GN=NBPF5P PE=5 SV=2

MVVSADPLSSERAEMNILEINQELRSQLAESNQFRDLKEKFLITQATAYSLANQLKKYK  
CEEYKDIIDSVLRDELSMEKLAELRQAEELRQYKALVHSQAKELTQLREKLREGRDAS  
RWLNKHLKTLTPDDPKSQGQDLREQLAEGHRLAEHLVHKLSPENDEDEDEDEDDKDEE  
VEKVQESAPREVQKTEEKEVPQDSLEECAVTCNSHNPSNSNQPHRSTKITFKEHEVDS  
ALVVESEHPHDEEEALNIPPENQNDHEEEGKAPVPPRHDKSNSYRHREVSFLALDEQ  
KVCSAQDVARDYSNPKWDETSLGFLDTPLARRESVALKGRTRSWQHSSHAN

>sp|Q3BBW0|NBPF9\_HUMAN Neuroblastoma breakpoint family member 9 OS=Homo sapiens GN=NBPF9  
PE=2 SV=1

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EECKDLIKSMLRNERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDAS  
RSLNQHLQALLTPDKPKSQGQDLQEQLAEGCRLAQQLFQKLSPENDEDEDEDEDVQVEEAE  
KVLESSAPREVQKAEESKVPEDSLEECAITCSNSHGPCDSNQPHKNINITFEEDKVNSAL  
VVDRESSHDECQDAVNILPVPGPTSSATNVSMVVSAGPLSSEKAEMNILEINEKLHPQLA  
EKKQQFRNLKEKCFVTQLACFLANQQNKYKYECKDLIKSMLRNERQFKEEKLAEQLKQA  
EELRQYKVLVHSQERELTQLREKLREGRDASRSLNQHLQALLTPDKPKSQGQDLQEQLA  
EGCRLTQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSAPREMKAEEKEVPEDSLEECAI  
TCSNSHGPDYNSQPHRKTITFEEDKVDSTLTGSSSHVEWEDAVHIIPENESDDEEEEEK  
GPVSPRNLQESEEEVPQESWDEGYSTLSIPPEMLASYQSYSTFHSLEEQQVCMAVDIG  
RHRWDQVKKEDQEATGPRLSRELLDEKGPEVLQDSLDRCYSTPSGYLELPDLGQPYSSAV  
YSLEEQLGLALDVDRIKKDQEEEDQGPPCPRLSRELLEVEPEVLQDSLDRCYSTPSS  
CLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIEKKKGKGGKRRGRRSKKERRRRGRKEGEED  
QNPPCPRLNGVLEMEVEPEVLQSLDGCYSTPSMYFELPDSFQHYRSVFYSFEEQHISFA  
LYVDNRFFTLTVTSLHLVFQMEVIFPQ

>sp|Q86T75|NBPF11\_HUMAN Neuroblastoma breakpoint family member 11 OS=Homo sapiens  
GN=NBPF11 PE=2 SV=3

MVVSAGPWSSEKAEMNILEINEKLRPQLAENKQQFRNLKERCFLTQLAGFLANRQKKYKY  
EECKDLIKFMLRNERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDAS  
RSLNEHLQALLTPDEPDKSQGGDLQEQLAEGCRLAQHLVQKLSPENDEDEDEDVQVEEDE  
KVLESSAPREVQKAEESKVPEDSLEECAITCSNSHGPCDSIQPHKNIKITFEEDKVNSSL  
VVDRESSHDGCQDALNILPVPGBTSSATNVSMVVSAGPLSSEKAEMNILEINEKLCPLA  
EKKQQFRSLKEKCFVTQVACFLAKQQNKYKYECKDLIKSMLRNERQFKEEKLAEQLKQA  
EELRQYKVLVHSQERELTQLREKLREGRDASRSLNEHLQALLTPDEPDKSQGGDLQEQLA  
EGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSSPREMKAEEKEVPEDSLEECAI  
TCSNSHGPYDSNQPHRKTITFEEDKVDSTLIGSSSHVEWEDAVHIIPENESDDEEEEEK  
GPVSPRNLQESEEEVPPQESWDEGYSTLSIPPERLASYSSTFHSLEEQQVCMVDIG  
RHRWDQVKKEDQEATGPRLSRELLDEKEPEVLQDSLDRCYSTPSVYLGLTDSCQPYRSAF  
YVLEQQRIGLAVDMDEIEKYQEVEEDQDPSCPRLSRELLAEKEPEVLQDSLDRCYSTPSG  
YLELPDLGQPYRSAYVSLLEEQLGLALDVEDRIKKDQEEEDQGPCPRLSRELLEVVEPE  
VLQDSLVDVQLLPVVLNSLTPASPTVEPFMHWKRNMLAFLLTWEKLRKRRGRGRKEGEEDQ  
RRKEEGEEKKGKKIKTHHAPGSAAC

>sp|B4DH59|NBPF26\_HUMAN Neuroblastoma breakpoint family member 26 OS=Homo sapiens  
GN=NBPF26 PE=5 SV=1

MLRNERQFKEEKLAEQLKQAEELRQYKVLVHAQERELTQLREKLREGRDASRSLNEHLQA  
LLTPDEPDKSQGGDLQEQLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSAPR  
EMQKAEKEVPEDSLEECAITCSNSHGPYDCNQPHRKTITFEEDKVDSTLIGSSSHVEW  
EDAVHIIPENESDDEEEEEKGPVSPRNLQESEEEVPPQESWDEGYSTLSIPPEMLASYKS  
YSSTFHSLEEQQVCMVDIGRHRWDQVKKEDHEATGPRLSRELLDEKGPEVLQDSLDRCY  
STPSGCLELTDSCQPYRSAFYVLEQQRVGLAVDMDEIEKYQEVEEDQNPPCPRLSRELLD  
EKGPEVLQDSLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQVEE  
DQDPSCPRLSGELLDEKEPEVLQESLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGL  
AVDMDEIEKYQEVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCYSTPSGCLELTDSCQP  
YRSAFYILEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCY  
STPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSRELLD  
EKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAYVSLLEEQLGLALDVEDRIKKDQEEEE  
DQGPCPRLSRELLEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGF  
SLDVGEIEKKKGKRRRRSKKERRRRGRKEGEEDQNPPCPRLSNMLMEVEEPEVLQDSL  
DICYSTPSMYFELPDSFQHYRSVFYSFEEHISFALYVDNRFFTLTVTSLHLVFQMGVIF  
PQ

>sp|Q01658|NC2B\_HUMAN Protein Dr1 OS=Homo sapiens GN=DR1 PE=1 SV=1

MASSSGNDDDLTIPTAAINKMIKETLPNVRVANDARELVVNCCTEFIHLISSEANEICNK  
SEKKTISPEHVIQAESLGFGSYISEVKEVLQECKTVALKRRKASSRLENLGIPEEELLR  
QQQELFAKARQQQAEQAQEWLQMQQAAQQAQLAAASASASNQAGSSQDEEDDDDI

>sp|076036|NCTR1\_HUMAN Natural cytotoxicity triggering receptor 1 OS=Homo sapiens GN=NCR1  
PE=1 SV=1

MSSTLPALLCVGLCLSQRISAQQQTLPKPFIWAEPHFMPKKEQVTICCGNYGAVEYQL  
HFEGSLFAVDRPKPPERINKVKFYIPDMNSRMAGQYSCIYRVGELWSEPSNLLDLVVTM  
YDPTLSVHPGPEVISGEKVTFCRLDTATSMFLLKEGRSSHVQRGYGKVQAEFPLGPV

TTAHRGTYRCFGSYNNHAWSPSEPVKLLVTGDIENTSLAPEDPTFPADTWGTYLLTTET  
GLQKDHALWDHTAQNLRLMGLAFLVLVALVWFLVEDWLSRKRTTRERASRASTWEGRRRLN  
TQTL

>sp|014931|NCTR3\_HUMAN Natural cytotoxicity triggering receptor 3 OS=Homo sapiens GN=NCR3  
PE=1 SV=1

MAWMLLLILIMVHPGSCALWVSQPPEIRTLEGSSAFLPCSFNASQGRLAIGSVTWFRDEV  
VPGKEVRNGTPEFRGRLAPLASSRFLHDHQAELHIRDVRGHDASIYVCRVEVLGLGVGTG  
NGTRLVVEKEHPQLGAGTVLLLRAGFYAVSFLSVAVGSTVYYQGKCLTWKGPRRQLPAVV  
PAPLPPPCGSSAHLPPVPGG

>sp|Q9UGV2|NDRG3\_HUMAN Protein NDRG3 OS=Homo sapiens GN=NDRG3 PE=1 SV=2

MDELQDVQLTEIKPLLNDKNGTRNFQDFDCQEHDIIETTHGVVHTIRGLPKGNRPVILTY  
HDIGLNHKSCFNAAFNFEDMQEITQHFVAVCHVDAPGQQEGAPSFPTGYQYPTMDELAEML  
PPVLTHLSLKSIIGIGVGAGAYILSRFALNHPELVEGLVLINVDPCAKGWIDWAASKLSG  
LTTNVVDIILAHFQGQELQANLDLIQTYRMHIAQDINQDNLQLFLNSYNGRRDLEIERP  
ILGQNDNKSRTLKSTLLVVGDNSPAFAVEECNSRLNPINTLLKMADCGGLPQVVPQG  
KLTEAFKYFLQGMGYIPASMTLARSRTHSTSSSLGSGESPFSRSVTSNQSDGTQESCE  
SPDVLDRHQTMVESC

>sp|Q9H3R1|NDST4\_HUMAN Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4  
OS=Homo sapiens GN=NDST4 PE=2 SV=1

MNLIVKLRRSFRTLIVLLATFCLVSIVISAYFLYSGYKQEMTLIETTAAECTDIKILPY  
RSMELKTVKPIDTSKTDPTVLLFVESQYSLGQDIIAILESSRFQYHVIAPGKGDIPPL  
TDNGKGKGYTLVIYENILKYVSMDSWNRELLEKYCVEYSVSIIGFHKANENSLPSTQLKGF  
PLNLFNNLALKDCFVNPQSPLLHITKAPKVEKGPLPGEDWTIFQYNHSTYQPVLLTELQT  
EKSLSSLSSKTLFATVIQDLGLHDGIQRVLFGNLNFHLHLIFIDAI SFLSGKRLTSL  
DRYILVDIDDIFVGKEGTRMNVDVKALLETQNLRTQVANFTFNLGFSGKFYHTGTEEE  
DEGDDLLLRSDVEFWFPHMWSHMQPHLFHNESSLVEQMILNKEFALEHGIPINMGYAVA  
PHHSGVYPVHIQLYAAWKVWGIQVTSTEEYPHLKPARYRKGF IHNSIMVLPRQTCGLFT  
HTIFYKEYPGGPQLDKSIRGGELFLTILLNPISIFMTHLSNYGNDRGLYTFVNLVNFV  
QSWTNLKLQTLPPVQLAHQYFELFPEQKDPLWQNPCDDKRHKDIWSREKTCDHLPKFLVI  
GPQKTGTALYLFLLMHPSIISNLPSPKTFEEVQFFNGNNYHKGIDWYMDFFPTPSNTTS  
DFLFEKSANYFHSEEAPRAASLPKAKIITILIDPSDRAYSWYQHQRSHEDPAALRFNF  
YEVISTGHWAPSDLKTLQRRCLVPGWYAVHIERWLT YFATSQLLIIDGQQLRSDPATVMD  
EVQKFLGVTPRYNYSEALTFDPQKGFQWQLLEGGKTKCLGSKGRKYPPMDPESRTFLSN  
YYRDHNVELSKLLHRLGQPLPSWLRQELQKVR

>sp|095178|NDUB2\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2,  
mitochondrial OS=Homo sapiens GN=NDUB2 PE=1 SV=1

MSALTRLASFAVGGRLFRSGCARTAGDGGVRHAGGGVHIEPRYRQFPQLTRSQVFQSEF  
FSLGMFWILWRFWHDSEEVLGHPYPDPSTQWTEELGIPPDED

>sp|P56181|NDUV3\_HUMAN NADH dehydrogenase [ubiquinone] flavoprotein 3, mitochondrial  
OS=Homo sapiens GN=NDUFV3 PE=1 SV=2

MAAPCLLRQGRAGALKTMLQEAQVFRGLASTVSLAESGKSEKGQPQNSKKQSPPKKPAP  
VPAEPFDNTTYKNLQHHDYSTYTFDLNLELSKFRMPQPSSGRESRPH

>sp|P20591|MX1\_HUMAN Interferon-induced GTP-binding protein Mx1 OS=Homo sapiens GN=MX1  
PE=1 SV=4

MVVSEVDIAKADPAAASHPLLLNGDATVAQKNPGSVAENNLCSQYEEKVRPCIDLIDSLR  
ALGVEQDLALPAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLKLLKLVNEDKW  
RGKVSQDYIEIEISDASEVEKEINKAQNAIAGEGMGISHELITLIESSRDVPLTLIDL  
GITRVAVGNQPADIGYKIKTLIKKYIQRQETISLVVPSNVDIATTEALSMAQEVDPEDG  
RTIGILTKPDLVDKGTEDKVVDVVRNLVFHLKKGYMIVKCRGQQEIQDQLSLSEALQREK  
IFFENHPYFRDLLEEGKATVPCLAEKLTSELI THICKSLPLENQIKETHQRITEELQKY  
GVDIPEDENEKMFFLIDKVNANFNQDITALMQGEETVGEEDIRLFTRLRHEFHKWTSTIEN  
NFQEGHKILSRKIQKFENQYRGRELPGFVNRYTFETIVKQKIKALEEPAVDMLHTVTDMV  
RLAFTDVS IKNFEEFFNLHRTAKSKIEDIRAEQEREKEKLIRLHFQMEQIVYCQDQVYRG  
ALQKVREKELEEEKKKSWDFGAFQSSSATDSSMEEIFQHLMAYHQEASKRISSHIPLII  
QFFMLQTYGQQLQKAMLQLLQDKDTYSWLLKERSDTS DKRKFLKERLARLTQARRRLAQF  
PG

>sp|Q9NR99|MXRA5\_HUMAN Matrix-remodeling-associated protein 5 OS=Homo sapiens GN=MXRA5  
PE=2 SV=3

MPKRAHWGALSVVLILLWGHPRVALACPHPCACYVPSEVHCTFRSLASVPAGIAKHVERI  
NLGFNSIQALSETSFAGLTKLELLMIHGNEIPSI PDGALRDLSSLQVFKFSYNKLRVITG  
QTLQGLSNLMRLHIDHNKIEFIHPQAFNGLTSLRLLHLEGNLLHQLHPSTFSTFTFLDYF  
RLSTIRHLYLAENMVRTLPAFMLRNMPLEENLYLQGNPWTCDCMRWFLEWDAKSRGILK  
CKKDKAYEGGQLCAMCFSPKKLYKHEIHKLKDMTCLKPSIESPLRQNRSRSEEEQEQUEE  
DGGSQ LILEKFQLPQWSISLNM TDEHGMVNLVCDIKKPM DVYKIHNLQTDPPDIDINAT  
VALDFECPM TRENYEKLWKL IAYYSEVPVKLHRELMLSKDPRVSYQYRQDADEEALYYTG  
VRAQILAEP EWMQPSIDIQLNRRQSTAKKVLLSYYTQYSQTISTKDTRQARGRSWVMIE  
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RIKSMEPSDSGLYQCI AQVRDEMDRMVYRVLVQSPSTQPAEKDTVTIGKNPGESVTLPCN  
ALAIPEAHL SWILPNRRI INDLANTSHVYMLPNGTLSIPKVQVSDSGYYRCVAVNQQGAD  
HFTVGITVTKKSGSLPSKRGRRP GAKALSRVREDIVEDEGGSGMGDEENTSRRLLHPKDQ  
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DGSLVNSFMQSDSGGRTKRYVFNNGTLYFNEVGMREEGDYTCFAENQVGKDEMRVRVK  
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KTTYIHVF

>sp|Q8IUG5|MY18B\_HUMAN Unconventional myosin-XVIIb OS=Homo sapiens GN=MYO18B PE=1 SV=1

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CLVPNPVVESRSGQESPPPPQGRDKPGAGGPLALDIPALRVQLAGFHILEALRLHRTGY  
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KAGVISRLEKQREKLVSSIVLFQAACKGFLSRQEFKKLIRRLAAQCIQKNVAVFLAVK  
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KIQLNDLERNPTGGADEWQMRFDCAQMENEF LRKRLQQCEERLDSEL TARKELEQKLGE  
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LEPASSPLASRSTNTSPLSREKLPSPSAALSEFVEGLRRKRAQRGGSTLGLEDWPTLPI  
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PEKSKTQFSSCESLLES RPSMGRKLSSPTTPRDMLLSPTLRPRRRCLESSVDDAGCPDLG  
KEPLVFQNRQFAHLMEEPLGSDPFSWKLPSLDYERKTKVDFDDFLPAIRKPQTPTSLAGS  
AKGGQDGSQRSSIHFEETEEANRSLSGIKTILKKSPEPKEDPAHLSDSSSSSGSIVSFKS  
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>sp|P10242|MYB\_HUMAN Transcriptional activator Myb OS=Homo sapiens GN=MYB PE=1 SV=2

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STPLIGHKLTVTTPFHRDQTVKTQKENTVFRTPAIKRSILESSPRTPTPFKHALAAQEIK  
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>sp|Q99417|MYCBP\_HUMAN C-Myc-binding protein OS=Homo sapiens GN=MYCBP PE=1 SV=3

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EIELLRLELAEMKEKYE AIVEENKKLAKLAQYEPPEEKRAE

>sp|075113|N4BP1\_HUMAN NEDD4-binding protein 1 OS=Homo sapiens GN=N4BP1 PE=1 SV=4

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RGSAAEVVMARSHIQFVKLFENKENLPSSQKESEVKREFKQFVEAHADNYTMDLLILPT  
SLKKELLTLTQGEENLFETGDDEVIEMRDSQQTEFTQNAATGLNISRDETVLQEEARNKA  
GTPVSELTKQMDTVLSSSPDVLFDPI NGLTPDEEALSNERICQKRRFS DSEERHTKKQFS  
LENVQEGEILHDAKTLAGNVIADLSDSSADSENLSPDIKETTEEMEYNILVNFFKTMGYS  
QEIVEKVIKVYGPSTEPLLLLLLEEIEKENKRFQEDREFSAGTVYPETNKTKNKGVYSSTNE  
LTTDSTPKKTAHTQQNMVEKFSQLPFKVEAKPCTSNCRINTFRTPVIEQKHEVWGSNQN  
YICNTDPETDGLSPSVASPSPEVNFVSRGASSHQPRVPLFPENGLHQQPEPLLPNNMKS  
ACEKRLGCCSSPHSKPNCSTLSPMPPLPQLLP SVTDARSAGPSDHIDSSVTGVQRFRTL

KIPYKLELKNEPGRDLDKHIVIDGSNVAITHGLKKFFSCRGIAIAVEYFWKLGNRNITVF  
VPQWRTRRDPNVTEQHFLTQLQELGILSLTPARMVFGERIASHDDRFLHLADKTGGIIV  
TNDNFREFVNESVSWREIITKRLQYTFVGDIFMVPDDPLGRSGPRLEEFLLQKEVCLRDM  
QPLLSALPNVGMFDPSPFRVPGTQAASTSHQPPTRIQGAPSSHWPQQPHFPLLPALPSLQ  
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>sp|P41227|NAA10\_HUMAN N-alpha-acetyltransferase 10 OS=Homo sapiens GN=NAA10 PE=1 SV=1  
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EEDPDDVPHGHITSLAVKRSHRRLGLAQKLMQASRAMIENFNAKYVSLHVRKSNRAALH  
LYSNTLNFQISEVEPKYYADGEDAYAMKRDLTQMADELRRHLELKEKGRHVVLGAIENKV  
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>sp|Q3BBV0|NBPF1\_HUMAN Neuroblastoma breakpoint family member 1 OS=Homo sapiens GN=NBPF1  
PE=2 SV=1

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EECKDLIKFMLRNERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDAS  
RSLNQHLQALLTPDEPDKSQGGDLQEQLAEGCRLAQHLVQKLSPENDEDEDEDVQVEEAE  
KVLESSAPREVQKAEESKVPEDSLEECAITCSNSHGPCDSNQPHKNINITFEEDKVNSTL  
VVDRESSHDECQDAVNILPVPGPTSSATNVSMVVSAGPLSSEKAEMNILEMNEKLRPQLA  
EKKQQFRNLKEKCFVTQLAGFLANQQNKYKYEEDDLIKSMLRNERQFKEEKLAEQLKQA  
EELRQYKVLVHSQERELTQLREKLREGRDASRSLNQHLQALLTPDEPDKSQGGDLQEQLA  
EGCRLAQHLVQKLSPENDEDEDEDVQVEEAEKVLESSAPREVQKAEESKVPEDSLEECAI  
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VSMVVSAGPLSSEKAEMNILEMNEKLRPQLAEKKQQFRNLKEKCFVTQLACFLANQQNKY  
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IPPEMLASYQSYSGTFHSLQVCMQAVDIGGHRWDQVKKEDQEATGPRLSRELLDEKGP  
EVLQDSLDRCYSTPSGYLELTDSCQPYRSAFYILEQQRVGWALDMDEIEKYQEVEEDQDP  
SCPRLSRELLDEKEPEVLQDSLDRCYSTPSGYLELPDLGQPYRSVYSLEEYQLGLALDV  
DRIKKDQEEEEEDQGPPCPRLSRELLEAVEPEVLQDSLDRCYSTPSSCLEQPDSCLPYGSS  
FYALEEKHVGFSLDVGEIEKKGKGKRRRSTTKRRRRGRKEGEEDQNPPCPRLSGMLM  
EVEEPEVLQDSLDRCYSTPSMYFELPDSFQHYRSVFYSFEEQHISFALDVDNRFLTLMGT  
SLHLVFQMGVIFPQ

>sp|POC2Y1|NBPF7\_HUMAN Putative neuroblastoma breakpoint family member 7 OS=Homo sapiens  
GN=NBPF7 PE=5 SV=1

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SQERELIQLREKLREGRDASHSLNQHLQALLTPDKHDNSQGGDFREQLAEGCRLARHLVH  
KLSPENDTDEDENDTKELDKVQESAPREEQKAEKEVPEDSLEECAITYSNSHGPPSDS  
NPPHKNIKITSEEDKVNLSILVVDSESSQDEWQDALNILLNQNDDEEEEGKAPVPPQVTL  
WICGLKLQESEEKEVLQDSPEERVTTSCSDHDVSQSYQPCGTFLLALVEQKVCSAQDVAS  
EHSNSKGEETPLGFPDTKYCWKDEKDERMSQKVAFLLEKYNYSKPSSIPNTTLQGSFTE



>sp|Q8N660|NBPF\_HUMAN Neuroblastoma breakpoint family member 15 OS=Homo sapiens  
GN=NBPF15 PE=2 SV=2

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EECKDLIKFMLRNERQFKEEKLAEQLKQAEELRQYKVLVHAQERELTQLREKLREGRDAS  
RSLNEHLQALLTPDEPDKSQGGDLQEQLAEGCRLTQHLVQKLSPENDNDDDEDVQVEVAE  
KVQKSSAPREMQAEEKEVPEDSLEECAITCSNSHGPYDSNQPHKTKITFEEDKVDSTL  
IGSSSHVEWEDAVHI IPENESDDEEEEEKGPVSPRNLQESEEEVQPESWDEGYSTLSIP  
PEMLASYQSYSSTFHSLEEQQVCAVDIGRHRWDQVKKEDQEATGPRLSRELLDEKEPEV  
LQDSLDRCYSTPSGCLELTDSCQPYRSAFYVLEQQRVGLAIDMDEIEKYQEVEEDQDPSC  
PRLSRELLDEKEPEVLQDSLDRCYSTPSDYLELPDLGQPYSSAVYSLEEQYGLALDVDR  
IKKDQEEEDQGPPCPRLSRELLEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFY  
ALEEKHVGFSLDVGIEKKKGKGRRRGRSSKKRRRRGRKEGEDNPPCPRLYGVLMEEVEE  
PEVLQDSLDRCYSTPSMYFEQPDSPFHYSVFYSFEEHHISFALYVDNRFFTLTVTSLHL  
VFQMGVIFPQ

>sp|O15453|NBR2\_HUMAN Next to BRCA1 gene 2 protein OS=Homo sapiens GN=NBR2 PE=2 SV=1

MWKGGRRSHPLPCSSRRAGSGGQLDSILPHQSPAWGPWGCKDLSSGVPSFLTSSILWKSA  
VFAEDNGLKIHLCSYKRDDLVLFDCTSFVLTFGPSPWFLTQGFLNPLEFSA

>sp|Q14919|NC2A\_HUMAN Dr1-associated corepressor OS=Homo sapiens GN=DRAP1 PE=1 SV=3

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NAKMTTSHLKQCIELEQQFDLKLVASVPDMQGDGEDNHMDGDKGARRGRKPGSGGRK  
NGMGTKSKDKKLSGTDSEQEDESEDTDGEEETSQPPPQASHPSAHFQSPPTPFLPFA  
STLPLPPAPPGPSAPDEEDEEDYDS

>sp|Q6ZUF6|NC336\_HUMAN Putative uncharacterized protein encoded by LINC00336 OS=Homo sapiens GN=LINC00336 PE=5 SV=1

MRAPAQVRTLRLWSLWPGSRGRDVFALRCAQALRCQPLGSALPPQAPTRDLGRPQAFDS  
SRTPGPRPPRSTLRMMETKSPTSPSYGARGKVPPGAGPGSPLSRGAGQGAPLSETRFHHV  
AQAFLLKLLSSSNPPTSASESARIIGVSHCTQPQVASLSDRHCSKVNHTVLSPRKGVPLQL  
TAAHSSSQEVLATVPFHG

>sp|P13591|NCAM1\_HUMAN Neural cell adhesion molecule 1 OS=Homo sapiens GN=NCAM1 PE=1 SV=3

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KLTPNQQRISVVWNDSSSTLTIIYNANIDDAIGYKCVVTGEDGSESEATVNVKIFQKLMF  
KNAPTPQEFREGEDAVIVCDVVSLLPPTIIWKHKGRDVLKGDVRFIVLSNNYLQIRGIK  
KTDEGTYRCEGRILARGEINFKDIQVIVNVPPTIARQNIVNATANLGQSVTLVCDAEGF  
PEPTMSWTKDGEQIEQEEDDEKYIFSDDSSQLTIKKVDKNDEAEYICIAENKAGEQDATI  
HLKVFAKPKITYVENQTAMELEEQVTLTCEASGDPIPSITWRTSTRNISSEKASWTRPE  
KQETLDGHMVVRSHARVSSLTKSIQYTDAGEYICTASNTIGQDSQSMYLEVQYAPKLQG  
PVAVYTWEGNQVNITCEVFAYPSATISWFRDGQLLPSSNYSNIKIYNTPSASYLEVTPDS  
ENDFGNYNCTAVNRIGQESLEFILVQADTPSSPSIDQVEPYSSAQVQFDEPEATGGVPI  
LKYKAEWRVAGEEVHWSKYDAKEASMEGIVTIVGLKPETTYAVRLAALNGKGLGEISAA  
SEFKTQPVQGEPSAPKLEGQMGEDGNSIKVNLIKQDDGGSPIRHYLVRYRALSSEWKPEI  
RLPSGSDHVMLKSLDWAIEYEVYVVAENQQGKSAAHFVFRSAQPTAIPANGSPTSGLS  
TGAIVGILIVIFVLLLVVDITCYFLNKCGLFMCIAVNLCGKAGPGAKGKDMEEGKAAPS  
KDESKEPIVEVRTEEERTPNHDGGKHTEPNETTPLTEPEKGPVEAKPECQETETKPAPAE  
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>sp|Q6PIU2|NCEH1\_HUMAN Neutral cholesterol ester hydrolase 1 OS=Homo sapiens GN=NCEH1  
PE=1 SV=3

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ALNFIIVSFGKSAWSSAQVKVTDTFDGVFVRVFEGPPKPEEPLKRSVVYIHGGGWALA  
SAKIRYYDELCTAMAEELNAVIVSIEYRLVPKVYFPEQIHDVVRATKYFLKPEVLQKYMV  
DPGRICISGDSAGGNLAAALGQQFTQDASLKNKLLQALIPVLQALDFNTPSYQQNVNT  
PILPRYVMVKYWVDYFKGNYDFVQAMIVNNHTSLDVEEAAAVRARLNWTSLLPASFTKNY  
KPVVQTTGNARIVQELPQLLDARSAPLIADQAVLQLLPKTYILTCEHDVLRDDGIMYAKR  
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>sp|P14598|NCF1\_HUMAN Neutrophil cytosol factor 1 OS=Homo sapiens GN=NCF1 PE=1 SV=3

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EAGAINPENRIIPHLPAKWFDDGQRAAENRQGTLEYCGTMSLPTKISRCPHLLDFFKV  
RPDDLKLPDNTQTKKPETYLMPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMASTG  
DVVEVVEKSESQWFCQMKAKRGWIPASFLEPLDSPDEDEDPEPNYAGEPYVAIKAYTAV  
EGDEVSLLEGEAVEVIHKLDDGWWVIRKDDVTGYFPSMYLQKSGQDVSQAQRQIKRGAPP  
RRSSIRNAHSIHQRSRKRLSQDAYRRNSVRFLQQRRRQARPGPQSPGSPLEERQTQRSK  
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>sp|Q9Y2A7|NCKP1\_HUMAN Nck-associated protein 1 OS=Homo sapiens GN=NCKAP1 PE=1 SV=1

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FDITVNFDLTKNYLDLIITYTTLMILLSRIEERKAIIGLYNHAHEMTHGASDREYPRLGQ  
MIVDYENPLKKMEEFVPHSKSLSDALISLQMVYPRRNLADQWRNAQLLSLISAPSTML  
NPAQSDTMPCEYLSLDAMEKWIIFGFILCHGILNTDATALNLWKLALQSSSCLSLFRDEV  
FHIHKAEDLFVNIRGYNKRINDIRECKEAAVSHAGSMHRERRKFLRSALKELATVLSQ  
PGLLGPKALFVFMALSFARDEIIWLLRHADNMPKKSADDFIDKHIAELIFYMEELRAHVR  
KYGPVMQRYVYQYLSGFDVAVLNELVQNLSVCPEDESIIMSSFVNTMTSLSVKQVEDGEV  
FDFRGMRLDWFRQLQAYTSVSKASGLADHRELKMMNTIIFHTKMVDSLVEMLVETSDLS  
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MFLDEMAKQARNLITDICTEQCTLSQQLPKHCAKTISQAVNKKSKKQTGKKGEPEKEP  
GVESMRKNRLVVTNLDKLHTALSELCFISINYVPMVVEHTFTPREYLTSHLEIRFTKSI  
VGMTMYNQATQEIAPSELLTSVRAYMTVLQSIENYVQIDITRVFNVLQQTQHLDHSHG  
EPTITSLYTNWYLETLLRQVSNGHIAFYFAMKAFVNLPTENELTFNAEEYSDISEMRSL  
ELLGPYGMKFLSESLMWHISSQVAELKKLVENVVDVLTQMRTSFDKPDQMAALFKRLSSV  
DSVLKRMTIIGVILSFRSLAQEALRDVLSYHIPFLVSSIEDFKDHIPRETDMKVAMNVE  
LSSAAGLPCEIDPALVVALSSQKSENISPEEEYKIACLLMVFVAVSLPTLASNVMSQYSP  
AIEGHCNNIHCLAKAINQIAAALFTIHKGSIEDRLKEFLALASSSLLKIGQETDKTTTRN  
RESVYLLLDMIVQESPFLLTMDLLESCFPYVLLRNAYHAVYKQSVTSSA

>sp|Q71RS6|NCKX5\_HUMAN Sodium/potassium/calcium exchanger 5 OS=Homo sapiens GN=SLC24A5  
PE=1 SV=1

MQTKGGQTWARRALLGILWATAHLPLSGTSLPQRLPRATGNSTQCVISPSSEFPEGFFT  
RQERRDGGIIYFLIIVYMFMAISIVCDEYFLPSLEIISESLGLSQDVAGTTFMAAGSSA  
PELVTAFLGVFITKDGISTILGSAIYNLLGICACGLLSNTVSTLSCWPLFRDCAAYT  
ISAAAVLGIIYDNQVYWYEGALLLIYGLYVLVLCFDIKINQYIIKKCSPCCACLAKAME  
RSEQQPLMGWEDEGQPFIRRSRTDSGIFYEDSGYSQLSISLHGLSQVSEDPPSVFNMP

ADLKRIFVWLSLPITLLFLTTPDCRKKFWKNYFVITFFMSAIWISAFTYILVWMVTITG  
ETLEIPDVTMGLTLAAGTSIPDTIASVLVARKGKGDMAMSNIVGSNVFDMCLGLIPWFI  
KTAFINGSAPAEVNSRGLTYITISLNSIIIFLFLAVHFNWGLDRKLGIVCLLSYLGLAT  
LSVLYELGIIGNNKIRGCGG

>sp|Q14686|NCOA6\_HUMAN Nuclear receptor coactivator 6 OS=Homo sapiens GN=NCOA6 PE=1 SV=3

MVLDDLPNLEDIYTSLCSSSTMEDSEMDFDSGLEDDDTKSDSILEDSTIFVAFKGNIDDKD  
FKWKLDAILKNVPNLLHMESSKLKVQKVEPWNSVRVTFNIPREAAERLRILAQSNNQQLR  
DLGILSVQIEGEGAINLALAQNRSDVRMNGPMGAGNSVRMEAGFPMASGPGIIRMNPA  
TVMIPPGGNVSSMMAPGPNPELQPRTPRPASQSDAMDPLLSGLHIQQQSHPSGSLAPPH  
HPMQPVSVNRQMNPNANFQLQQQQQQQQQQQQQQQQQQQQQLQARPPQHQQQQPQ  
GIRPQFTAPTQVPVPPGWNQLPSGALQPPPAQGS LGTMTANQGKKAPLPGPMQQQLQAR  
PSLATVQTPSHPPPPYPFGSQASQAHTNFPQMSNPGQFTAPQMKSLQGGPSRVPTPLQQ  
PHLTNKSPASSPSSFQQGSPASSPTVNQTQQQMGRPPQNNPLPQGFQQPVSSPGRNPMV  
QQGNVPPNFMVMQQPPNQGPQSLHPGLGGMPPKRLPPGFSAGQANPNFMQGQVPSTTATT  
PGNSGAPQLQANQNVQHAGGQAGPPQNQMVS HGPNNMMQPSLMGIHGNNNNQAGTSG  
VPQVNLNMQGQPQQGPPSQLMGMHQQIVPSQGMVQQQGTLPNQPMILSRAQLMPQGG  
MMVNPPSQLGPPSPQRMTPPKQMLSQGGPQMMAPHNQMMGPQGQVLLQQNPMIEQIMTNQ  
MQGNKQQFNTQNSQNVMPGPAQIMRGPTPNMQGNMVQFTGQMSGQMLPQQGPVNNSPSQV  
MGIQQQVLRPPGPSPHMAQQHGDPTATTANNDVSLSQMMPDVSIQQTNMVPPHVQAMQNS  
ASGNHFSGHGMSFNAPFSGAPNGNQMSCGQNPFGFVNKDVTLTSPLLVNLLQSDISAGHF  
GVNNKQNNNTANKPKKKKPPRKKKNSQQDLNTPDTRPAGLEEADQPPLPGEQGINDNSG  
PKLPEFSNRPPGYPSQPVEQRPLQQMPPQLMQHVAPPPQPPQQQPQLPQQQPPPPSQ  
PQSQQQQQQQQMMMLMMQDPKSVRLPVSQNVHPPRGPLNPD SQRMPMQQSGSVPMV  
SLQGPASVPPSPDKQRMMPVNTPLGSNSRKMVYQESPQNPSSSPLAEMASLPEASGSEA  
PSVPGGPNNMPSHVLPQNQLMMTGPKPGPSPLSATQGATPQQPPVNSLPSSHGHHPNV  
AAPTQTSRPKTPNRASPRPYYPQTPNNRPPSTEPSEISLSPERLNASIAGLFPPQINIPL  
PPRPNLNRGFDQQGLNPTTLKAIGQAPSNLTMNPSNFATPQTHKLDVVVNSGKQNSGA  
TKRASPSNSRRSSPGSSRKTTPSPGRQNSKAPKLTLASQTNAALLQNVLPNVLVSPTP  
LANPPVPGSFNNNSGLNPQNSTVSAVGGVVEDNKESLNV PQSDCQNSQSRKEQVNE  
LKAVPAQEVMVVPEDQSKKDGQPSDPNKLPSVEENKNLVSPAMREAPTSLSQLLDNSGA  
PNVTIKPPGLTDLEVTTPPVSGEDLKASV IPTLQDLSSSKEPSNSLNLPHSNELCSSLV  
HPELSEVSSNVAPSIPPVMSRPVSSSISTPLPPNQITVFVTSNPITTSANTS AALPHTL  
QSALMSTVVTMPNAGSKVMVSEGSAQAQSNARPQFITPVFINSSSIIQVMKGSQPSTIPA  
APLTNSGLMPPSAVVVGLHIPQNIKFSSAPVPPNALSSSPAPNIQTGRPLVLSSRATP  
VQLPSPCTSSPVVPSHPVQVKELNPDEASPQVNTSADQNTLPSSQSTTMVSPLLTNS  
PGSSGNRRSPVSSSKGKGKVDKIGQILLTKACKKVTGSLEKGEEQYGADGETEGQLD TT  
APGLMGTEQLSTELDSKTTPPAPTLLKMTSSPVPGTASAGPSLP GGALPTS VRSIVTT  
LVPSSELISAVPTTKSNHGGIASESLAGGLVEEKVGSHPELLPSIAPSQNLVSKETSTAL  
QASVARPELEVNA AIVSGQSSEPKEIVEKSKIPGRNRSRTEEPTVASESVENGHRKRSSR  
PASASSSTKDITS AVQSKRRKSK

>sp|P62166|NCS1\_HUMAN Neuronal calcium sensor 1 OS=Homo sapiens GN=NCS1 PE=1 SV=2

MGKSNSKLKPEVVEELTRKTYFTEKEVQQWYKGF IKDCPSGQLDAAGFQKIYKQFFPFGD  
PTKFATFVFNVDENKDGRIEFSEFIQALSVTSRGTLD EKLRFWAFKLYDLNDGYITRNE  
MLDIVDAIYQMVGNTELPEEENTPEKRVDRIFAMMDKNADGKLTLEFQEGSKADPSIV

QALSLYDGLV

>sp|Q5VWK0|NBPF6\_HUMAN Neuroblastoma breakpoint family member 6 OS=Homo sapiens GN=NBPF6  
PE=2 SV=2

MVVSADPLSSERAEMNILEINQELRSQLAESNQQRDLKEKFLITQATAYSLANQLKKYK  
CEEYKDIIDSVLRDELSMEKLAEKLRQAEELRQYKALVHSQAKELTQLREKLREGRDAS  
RWLNKHLKTLLTPDDPKSQGQDLREQLAEGHRLAEHLVHKLSPENDEDEDEDEDDKDEE  
VEKVQESPAPREVQKTEKEVPQDSLEECAVTCNSHNPSNSNQPHRSTKITFKEHEVDS  
ALVVESEHPHDEEEALNIPPENQNDHEEEGKAPVPPRHHDKSNSYRHREVSFLALDEQ  
KVCSAQDVARDYSNPKWDETSLGFEKQSDLEEVKGQETVAPRLSRGPLRVDKHEIPQES  
LDGCCLTPSILPDLTPSYHPYWSTLYSFEDKQVSLALVDKIKKDQEEIEDQSPPCPRLSQ  
ELPEVKEQEVPEDSVNEVYLTPSVHHDVSDCHQPYSSTLSLEDQLACSA LDVASPTEAA  
CPQGTWSGDLSHRSEVQISQAQLEPSTLVPSCRLRLQDQGFHCGNLAQRGLSSTTCSF  
SANADSGNQWPFQELVLEPSLGMKNPPQLEDDALEGSASNTQGRQVTGRIRASLVLILKT  
IRRLPFSKWRLAFRFAAGPHAESAEIPNTAERMQRMIG

>sp|Q5TI25|NBPF14\_HUMAN Neuroblastoma breakpoint family member 14 OS=Homo sapiens  
GN=NBPF14 PE=2 SV=2

MLRNERQFKEEKLAEQLKQAEELRQYKVLVHAQERELTQLREKLREGRDASRSLNEHLQA  
LLTPDEPKSQGQDLQEQLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSAPR  
EMQKAEKEVPEDSLEECAITCSNSHGPYDSNQPHRKTITFEEDKVDSTLIGSSSHVEW  
EDAVHIIPENESDDEEEEEKGPVSPRNLQSEEEVEVPQESWDEGYSTLSIPPEMLASYKS  
YSSTFHSLEEQQVCAVDIGRHRWDQVKKEDHEATGPRLSRELLDEKGPEVLQDSLDRCY  
STPSGCLELTDSCQPYSAFYVLEQQRVGLAVNMDEIEKYQEVEEDQDPSCPRLSRELLD  
EKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEEYQLGLALDVDRIKKDQEEEE  
DQGPPCPRLSRELLEVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGF  
SLDVGEIEKKGKGKRRGRRSKERRRGRKEGEEDQNPPCPRLSRELLDEKGPEVLQDSL  
DRCYSTPSGCLELTDSCQPYSAFYILEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSG  
ELLDEKEPEVLQESLDRCYSTPSGCLELTDSCQPYSAFYILEQQRVGLAVDMDEIEKYQ  
EVEEDQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEEQ  
YLGLALDVDRIKKDQEEEDQGPPCPRLSRELLEVEPEVLQDSLDRCYSTPSSCLEQPD  
SCQPYGSSFYALEEKHVGFSLDVGEIEKKGKGKRRGRRSKERRRGRKEGEEDQNPPCP  
RLNSMLMEVEEPEVLQDSLDCYSTPSMYFELPDSFQHYRSVFYSFEEHISFALYVDNR  
FFTLTVTSLHLVFQMGVIFPQ

>sp|Q9BTX1|NDC1\_HUMAN Nucleoporin NDC1 OS=Homo sapiens GN=NDC1 PE=1 SV=2

MATAVSRPCAGRSRDILWRVLGWRIVASIVSVLFLPICTTVFIIFSRIDL FHP IQWLS  
SFDLYSSYVIFYFLLLSVVIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFI  
HAAMGMVMAWCAAVITQGQYSFLVVPCTGTNSFGSPAQTCLNEYHLFFLLTGAFMGYSY  
SLLYFVNMMNYLPFPIIQYKFLRFRRSLLLLVKHSCVESLFLVRNFCILYYFLGYIPKA  
WISTAMNLHIDEQVHRPLDTVSGLLNLSLLYHVWLCGVFLLTTWYVSWILFKIYATEAHV  
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRRQEVFSLSQPGGHPH  
NWTAISRECLNLLNGMTQKILILYQEAATNGRVSSSYPEPKKLSPEETAFTQTPKSSQM  
PRPSVPPLVKTSLFSSKLSTPDVVSFPGTPFGSSVMNRMAGIFDVNTCYGSPQSPQLIRR  
GPRLWTSASDQMQTEFSNPSPSTISAEKTMRQPSVIYSWIQNKREIKNFLSKRVLIM  
YFFSKHPEASIQAVFSDAQMHIWALEGLSHLVAASFTEDRFVGVQTTLPAILNTLLTLQE  
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTFGEHLNAVQASA

EHQKRLQQFLEFKE

>sp|P22392|NDKB\_HUMAN Nucleoside diphosphate kinase B OS=Homo sapiens GN=NME2 PE=1 SV=1  
MANLERTFIAIKPDGVQRGLVGEIIRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPF  
FPGLVKYMNSGPVVMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGS  
DSVKSAAEKEISLWFKPEELVDYKSCAHDWVYE

>sp|Q00604|NDP\_HUMAN Norrin OS=Homo sapiens GN=NDP PE=1 SV=1  
MRKHVLAASFMSLLVIMGDTDSKTDSSFIMDS DPRRCMRHHYVDSISHPLYKCSSKMV  
LLARCEGHCSQASRSEPLVSFSTVLKQPFRRSSCHCCRPQTSKLKALRLRCSGGMRLTATY  
RYILSCHCEECNS

>sp|Q92597|NDRG1\_HUMAN Protein NDRG1 OS=Homo sapiens GN=NDRG1 PE=1 SV=1  
MSREMQDVDLAEVKPLVEKGETITGLLQEFDVQEEDIETLHGSVHVTLCGTPKGNRPVIL  
TYHDIGMNHKTCYNPLFNIEDMQEITQHFAVCHVDAPGQQDGAASFPAGYMYPMSDQLAE  
MLPGVLQQFGLKSIIGMTGAGAYILTRFALNNPEMVEGLVLINVNPCAEGWMDWAASKI  
SGWTQALPDMVVSHLFGKEEMQSNVEVVHTYRQHIVNDMNPGLHLFINAYNSRRDLEIE  
RPMPTGHTVTTLQCPALLVVGDSAPVDAVVECNKLDPTKTLLKMADCGGLPQISQPAK  
LAEAFKYFVQGMGYMPSASMTRLMRSRTASGSSVTSLDGTRSRSHTSEGTRSRSHTSEGT  
RSRSHTSEGAHLDITPNSGAAGNSAGPKSMEVSC

>sp|P52848|NDST1\_HUMAN Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1  
OS=Homo sapiens GN=NDST1 PE=1 SV=1  
MPALACLRLRLCRHVSQAVLFLLFIFCLFSVFISAYYLYGWKRGLEPSADAEPEPCGDPP  
PVAPSRLPLPKPVQAATPSRTDPLVLVFVESLYSQLGQEVVAILESSRFKYRTEIAPGKG  
DMPTLTDKGRGRFALIIYENILKYVNLDawnRELLDKYCVAYGVGIIGFFKANENSLLSA  
QLKGFPLFLHSNLGLKDCSINPKSPLLYVTRPSEVEKGVLPGEDWTVFQSNHSTYEPVLL  
AKTRSSSEIPHLGADAGLHAALHATVVQDLGLHDGIQRVLFGNNLFWLHKLIFVDAVAF  
LTGKRSLPLDRYILVDIDDIFVGKEGTRMKVEDVKALFDTQNELRAHIPNFTFNLGYSG  
KFFHTGTNAEDAGDLLLLSYVKEFWFPHMWSHMQPHLFHNQSVLAEQMALNKKFAVEHG  
IPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWSIRVTSTEEYPHLKPARYRRGFIHNGIMV  
LPRQTCGLFTHTIFYNEYPGGSSELDKIINGGELFLTLLNPISIFMTHLSNYGNDRLGL  
YTFKHLVRFLHSWTLNRLQLTPPVQLAQKYFQIFSEEKDWQPCEDKRHKDIWSKEKT  
CDRFPKLLIIGPQKTGTALYLFLGMHPDLSSNYPSSSETFEEIQFFNGHNYHKGIDWYME  
FFPIPSNTTSDIFYFEKSANYFDSEVAPRRAAALLPKAKVLTILINPADRAYSWYQHQRH  
DDPVALKYTFHEVITAGSDASSKLRLQNRCLVPGWYATHIERWLSAYHANQILVLDGKL  
LRTEPAKVMDMVQKFLGVTNTIDYHKTALFDPKKGFWCQLLEGGKTKCLGKSKGRKYPEM  
DLDSRAFLKDYRRDHNIELSKLLYKMGQTLPTWLREDLQNT

>sp|P52849|NDST2\_HUMAN Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 2  
OS=Homo sapiens GN=NDST2 PE=1 SV=1  
MLQLWKVVRPARQLELHRLILLIIAFLSGSMGFLAYYVSTSPKAKEPLPLPLGDCSSGGA  
AGPGPARPPVPPRPPRPETARTEPVVLVFVESAYSQLGQEIVAILESSRFYSTELAPG  
RGDMPTLTDNTHGRYVLVIYENLLKYVNLDWSRELLDRYCVYGVGIIGFFRAHEHSL  
SAQLKGFPLFLHSNLGLRDYQVNPSAPLLHLTRPSRLEPGPLPGDDWTFQSNHSTYEPV  
LLASLRPAEPAVPGPVLRRARLPTVVQDLGLHDGIQRVLFGHLSFWLHKLIFVDAVAYL  
TGKRCLDLDRYILVDIDDIFVGKEGTRMKVADVEALLTTQNKLRTLVPNFTFNLGFSK  
FYHTGTEEDAGDMLLKRKEFWFPHMWSHMQPHLFHNRSVLADQMRLNKQFALEHGI  
PTDLGYAVAPHHSGVYPIHTQLYEAWKSVWGIQVTSTEEYPHLRPARYRRGFIHNGIMVL

PRQTCGLFTHITIFYNEYPGGSRELDRSIRGGELFTVLLNPISIFMTHLSNYGNDRLGLY  
TFESLVRFLQCWTRLRLQTLPPVPLAQKYFELFPQERSPLWQNPCCDKRHKDIWSKEKTC  
DRLPKFLIVGPQKTGTTAIHFFLSLHPAVTSSFFSPSTFEEIQFFNSPNYHKGIDWYMDF  
FPVPSNASTDFLFEKSATYFDSEVVPRGAALLPRAKIIITVLTNPADRAYSWYQHQAHRG  
DPVALNYTFYQVISASSQTPLALRSLQNRCLVPGYYSTHLQRWLTYYPGQLLIVDGQEL  
RTNPAASMESIQKFLGITPFLNYTRTLRFDDDKGFWCQGLEGGKTRCLGRSKGRRYPDMD  
TESRLFLTDFRNHNLELSKLLSRLGQPVPSWLREELQHSSLG

>sp|P51970|NDUA8\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8  
OS=Homo sapiens GN=NDUFA8 PE=1 SV=3

MPGIVELPTLEELKVDEVKISSAVLKAAAHYGAQCDKPNKEFMLCRWEEKDPRRCLEEG  
KLVNKCALDDFRQIKRHCAEPFTEYWTCIDYTGQQLFRHCRKQQAQFDECVLDKLGWVRP  
DLGELSKVTKVKTDRLPENPYHSRPRPDPSPEIEGDLQPATHGSRFYFWTK

>sp|O75438|NDUB1\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 1 OS=Homo  
sapiens GN=NDUFB1 PE=1 SV=1

MVNLLQIVRDHWHVLVPMGFVIGCYLDRKSDERLTAFRNKSMLFKRELQPSEEVTK

>sp|O43674|NDUB5\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 5,  
mitochondrial OS=Homo sapiens GN=NDUFB5 PE=1 SV=1

MAAMSLLRVSVTAVAALSGRPLGTRLGFGGFLTRGFPKAAAPVRHSGDHGKRLFVIRPS  
RFYDRRFLKLLRFYIALTGIPVAIFITLVNVFIGQAELAEIPEGYVPEHWEYYKHPISRW  
IARNFYDSPEKIYERTMAVLQIEAEKALRVKELEVRKLMHVRGDGPWYYYETIDKELID  
HSPKATPDN

>sp|E9PQ53|NDUCR\_HUMAN NADH dehydrogenase [ubiquinone] 1 subunit C2, isoform 2 OS=Homo  
sapiens GN=NDUFC2-KCTD14 PE=1 SV=1

MIARRNPEPLRFLPDEARSLPPPKLTDPRLLYIGFLGYCSGLIDNLIRRRPIATAGLHRQ  
LLYITAFFFAGYYLVKREDYLYAVRDREMFYMKLHPEDFPEEDVYCCGAERRG

>sp|O75251|NDUS7\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 7,  
mitochondrial OS=Homo sapiens GN=NDUFS7 PE=1 SV=3

MAVLSAPGLRGFRILGLRSSVGPVAVQARGVHQSVATDGPSTQPALPKARAVAPKPSSRG  
EYVVAKLDDLNVNARRSSLWPMTFGLACCAVEMMHMAAPRYDMDRFGVVFRASPRQSDVM  
IVAGTLTNKMAPALRKVYDQMPEPRYVSMGSCANGGGYYHYSYSVVRGCDRIVPVDIYI  
PGCPPTAEALLYGILQLQRKIKRERRLQIWYRR

>sp|O00217|NDUS8\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 8,  
mitochondrial OS=Homo sapiens GN=NDUFS8 PE=1 SV=1

MRCLTTPMLLRALAAARAGPPGGRSLHSSAVAATYKYVNMQDPEMDMKSVDRAARTLL  
WTELFRLGMTLSYLFREPATINYPFEKGPLSPFRGEHALRRYPSGEERCIACKLCEAI  
CPAQAITIEAEPRADGSRRTTRYDIDMTKCIYCGFCQEACPVDAIVEGPNFEFSTETHEE  
LLYNKEKLLNNGDKWEAEIAANIQADYLYR

>sp|Q9ULJ8|NEB1\_HUMAN Neurabin-1 OS=Homo sapiens GN=PPP1R9A PE=1 SV=2

MLKTESSGERTTLRSASPHRNAYRTEFQALKSTFDKPKSDGEQKTKEGEGSQSRGRKYG  
SNVNRKLNLFMQMGMEPNENAAVIAKTRGKGHSSPQRRMKPFLEKTDGSSVVKLESSV  
SERISRFDTMYDGPSYSKFTETRKMFERSVHESGQNNRYSKKEKAGGSEPQDEWGGSKS  
NRGSTDSDLSSRTEAVSPTVSQLSAVFENTDSPAIISEKAENNEYSVTGHYPLNLPS  
VTVTNLDTFGHLKDSNSWPPSNKRGVDTEDAHKSNATPVPEVASKSTSLASIPGEEIQQS  
KEPEDSTSNQQTPTSIDKDGPEEPCAESKAMPKSEIPSPQSQLEDAEANLVGREAAKQQ

RKELAGDFTSPDASASSCGKEVPEDSNNFDGSHVYMHSDYNVYRVRSRYSNDWGETGTE  
QDEEEDSDENSYYQPDMEYSEIVGLPEEEEEIPANRKIKFSSAPIKVFNTYSNEDYDRRND  
EVPVAASAAYELEKRVEKLELFPVELEKDEGLGISIIIGMGVGADAGLEKLGIFVKTVT  
EGGAAQRDGRIQVNDQIVEVDGISLVGVTQNFAATVLRNTKGNVRFVIGREKPGQVSEVA  
QLISQTLQERRQRELLEQHYAQYDADDDDETGEYATDEEEDEVGPVLPGSDMAIEVFELP  
ENEDMFSPSELDTSKLSHKFKELQIKHAVTEAEIQKLKTKLQAAENEKVRWELEKTQLQQ  
NIEENKERMLKLESYWIEAQLTCHTVNEHLKETQSQYQALEKKYNKAKKLIKDFQQKELD  
FIKRQEAERKKIEDLEKAHLVEVQGLQVRIRDLEAEVFRLLKQNGTQVNNNNNIFERRTS  
LGEVSKGDTMENLDGKQTSQDGLSQDLNEAVPETERLDSKALKTRAQLSVKNRRQRPSR  
TRLYDSVSSTDGEDSLERKNFTFNDDFSPSSTSSADLSGLGAEPKTPGLSQLALSSDES  
LDMIDDEILDDGQSPKHSQCQNRQVQVSHWMSLNLEQYVSEFSAQNITGEQLL  
QLDGNKLKALGMTASQDRAVVKKKLKEMKMSLEKARKAQEKMEKQREKLRRKEQEQMQRK  
SKKTEKMTSTTAEGAGEQ

>sp|Q15223|NECT1\_HUMAN Nectin-1 OS=Homo sapiens GN=NECTIN1 PE=1 SV=3

MARMGLAGAAGRWWGLALGLTAFFLPGVHSQVQVQVNDQSMYGFITDVLHCSFANPLPSV  
KITQVTWQKSTNGSKQNVAIYNPSMGVSVLAPYRERVEFLRPSFTDGTIRLSRLELEDEG  
VYICEFATFPTGNRESQNLTVMAKPTNWIEGTQAVLRAKKGQDDKVLVATCTSANGKPP  
SVVSWETRLKGEAEYQEIIRNPNGTVTVISRYRLVPSREAHQQLACIVNYHMDRFKESLT  
LNVQYEPVETIEGFDGNWYLQRMVVKLTCKADANPPATEYHWTTLNGSLPKGVEAQNRTL  
FFKGPIINYSLAGTYICEATNPIGTRSGQVEVNITEFPYTPSPPEHRRAGPVPTAIIGGV  
AGSILLVLIVVGGIVVALRRRRHTFKGDYSTKKHVYNGYSGKAGIPQHPPMAQNLQYPD  
DSDDEKKAGPLGGSSYYYYYYYYEGGGGERKVGPHPKYDEDAKRPYFTVDEAEARQDG  
YGDRTLGYQYDPEQLDLAENMVSQNDGSFISKEWYV

>sp|Q92692|NECT2\_HUMAN Nectin-2 OS=Homo sapiens GN=NECTIN2 PE=1 SV=1

MARAAALLPSRSPPTLLWPLLLLLLLETGAQDVRVQVLEVRGQLGGTVELPCHLLPPV  
PGLYISLVTWQRPDAPANHQNVAAAFHPKMGSPFSPKPGSERLSFVSAKQSTGQDTEAEL  
QDATLALHGLTVEDEGNYTCEFATFPKGSVRGMTWLRVIAKPKNQAEAKVTFSDPTTV  
ALCISKEGRPPARISWSSLDWEAKETQVSGTLAGTVTVTSRFTLVPSGRADGVTVTCKV  
EHESFEPPALIPVTLVSRYPPEVSIISGYDDNWYLGRDATLSCDVRSNPEPTGYDWSTTS  
GTFPTSAVAQGSQVLIVHAVDSLNTTFVCTVTNAVGMGRAEQVIFVRETPNTAGAGATGG  
IIGGIIAAIIATAVAATGILICRQQRKEQTLQGAEDEDELEGPPSYKPPTPKAKLEAQEM  
PSQLFTLGASEHSPLKTPYFDAGASCTEQEMPRYHELPTLEERSGPLHPGATSLGSPIPV  
PPGPPAVEDVSLDLEDEEGEEEEYLDKINPIYDALSYSSPSDSYQKGKGFVMSRAMYV

>sp|Q15843|NEDD8\_HUMAN NEDD8 OS=Homo sapiens GN=NEDD8 PE=1 SV=1

MLIKVKTLTGKEIEIDIEPTDKVERIKERVEEKEGIPPQQQLIYSGKQMNDEKTAADYK  
ILGGSVLHLVLALRGGGGLRQ

>sp|Q92979|NEP1\_HUMAN Ribosomal RNA small subunit methyltransferase NEP1 OS=Homo sapiens  
GN=EMG1 PE=1 SV=4

MAAPSDGFKPRERSGGEQAQDWDALPPKRPRLGAGNKIGGRRLIVVLEGASLETVKVGKT  
YELLNCDKHKSILLKNGRDPGEARPDITHQSLLMLMDSPLNRAGLLQVYIHTQKNVLIEV  
NPQTRIPRTFDRFCGLMVQLLHKLSVRAADGPQKLLKVIKNPVSDFHPVGCМКVGTSFSI  
PVVSDVRELVPSSDPVFFVGAFAHGKVSVEYTEKMVSIISNYPLSAALTCAKLTAFEEV  
WGVI

>sp|A8MQ27|NEU1B\_HUMAN E3 ubiquitin-protein ligase NEURL1B OS=Homo sapiens GN=NEURL1B  
PE=1 SV=1

MGNTVHRTLDPDPPARLLATRPCCGPGPERRPVLGEAPRFHAQAKGKNVRLDGHSRRAT  
RRNSFCNGVTFTQRPRLYEQVRLRLVAVRPGWSGALRFGFTAHDPSLSAQDIPKYACP  
DLVTRPGYWAKALPENLALRDTVLAYWADRHGRVFYSVNDGEPVLFHCGVAVGGPLWALI  
DVYGITDEVQLLESFAFADTLTPARLSQARFSACLPPSSHDAANFDNNELENNQVVAKLGH  
LALGRAPGPPPADAAAAAIPCGPRERPRPASSPALLEADLRFHATRGPDVLSADRKVAC  
APRPDGGRTLVSERPLRPGESLFVEVGRPGLAAPGALAFGITSCDPGVLRPNELPADPD  
ALLDRKEYVWVARAGPVPSGGDALSTLRPGGDVLLGINGRPRGRLLCVDTTQALWAFFA  
VRGGVAGQLRLLGTLQSSPATTTPSGSLSGSQDDSDSDMTFSVNQSSSASESSLVTAPSS  
PLSPPVSPVFSPPFAGIKNGECTVCFDGEVDTVIYTCGHMCLCHSCGLRLKRQARACCP  
ICRRPIKDVIKIYRP

>sp|QOZGT2|NEXN\_HUMAN Nexilin OS=Homo sapiens GN=NEXN PE=1 SV=1

MNDISQKAEILLSSSKPVPKTYVPKLKGKDVKDKFEAMQRAREERNQRRSRDEKQRRKEQ  
YIREREWNRRKQEIKEMLASDDEEDVSSKVEKAYVPKLTGTVKGRFAEMEKQRQEEQRKR  
TEEERKRRIEQDMLEKRKIQRELAKRAEQIEDINNTGTESASEEGDSSLITVVPVKS  
TSKMKKNFEDLEKEREKERIKYEEDKRIRYEEQRPSLKEAKCLSLVMDDEIESEAKKE  
SLSPGKLLTFEELERQRQENRKKQAEERARKRLEEEKRAFEARRQMVNEDEENQDTAK  
IFKGYRPGKLLSFEEMERQRREDEKRKAEEEEARRRIEEKKAFAEARRNMVDDDSPEM  
YKTISQEFLLTPGKLEINFEELLKQKMEEEKRRTEEERKHKLEMEKQFEQLRQEMGEEEE  
ENETFLSREYEELIKLRSGSIQAKNLKSKFEKIGQLSEKEIQKKIEERARRRAIDLE  
IKEREAENFHEEDVDVRPARKSEAPFTHKVNMAKARFEQMAKAREEEEEQRRIEEQKLLRM  
QFEQREIDAALQKKREEEEEEGSIMNGSTAEDDEEQTRSGAPWFKKPLKNTSVVDSEPV  
FTVKVTGEPKPEITWWFEGEILQDGEDYQYIERGETYCLYLPETFPEDGGEYMCKAVNNK  
GSAASTCILTIESKN

>sp|Q8NCF5|NF2IP\_HUMAN NFATC2-interacting protein OS=Homo sapiens GN=NFATC2IP PE=1 SV=1

MAEPVGKRGRWGGSGAGRGGGWRGRRPRPRAQRSPSRGTLDVVSVDLVTDSDEEILE  
VATARGAADEVEPEPPGPVASRDNNSDSEGEDRRPAGPPREPVRRRRRLVLDPGEA  
PLVPVYSGKVKSSLRLIPDDLKLYPPGDEEEAELADSSGLYHEGSPSPGSPWTKLR  
TKDKEKKKTEFLDLNSPLSPSPRTKSRTHTRALKKLSEVKNRLQDLRSCLSPKPPQG  
QEQQGQDEVLVEGPTLPETPRLFLPKIRCRADLVRLPLRMSEPLQSVVDHMATHLGVS  
PSRILLFGETELSPTATPRTLKLGVAIDIICVVLTSPEATETSQQQLQLRVQGEKHQT  
LEVSLSRDPLKTLMSHYEAMGLSGRKLSTFFDGTKLSGRELPA DLGMESGDLIEVWG

>sp|Q9Y2I6|NINL\_HUMAN Ninein-like protein OS=Homo sapiens GN=NINL PE=1 SV=2

MDEEENHYVSQLREVYSSCDTTGTGFLDRQELTQLCLKLHLEQQLPVLLQTLLGNDHFAR  
VNFEFKEGFVAVLSSNAGVRPSDEDSSSLESAASSAIPPKYVNGSKWYGRRSRPELCDA  
ATEARRVPEQQTQASLKSHLWRSASLESVESPKSDEEAESTKEAQNELFEAQGQLQTWDS  
EDFGSPQKSCSPSFDTPESQIRGVWEELGVSSGHLSEQELAVVCQSVGLQGLEKEELED  
LFNKLDQDGDGKVSLEEFQLGLFSHEPALLLESSTRVKPSKAWSHYQVPEESGCHTTTTS  
SLVSLCSSLRLFSSIDDGSGFAFPDQVLAMWTQEGIQNGREILQSLDFSVDKVNLELT  
WALDNELMTVDSAVQQAALACYHQELSYQQGQVEQLARERDKARQDLERA EKRNLEFVKE  
MDDCHSTLEQLTEKKIKHLEQGYRERLSLLRSEVEAERELFWEQAHRQRAALEWDVGRLQ  
AEEAGLREKLTALKENSRLQKEIVEVVEKLSDSERLALKLQKDLEFVLKDKLEPQSAEL  
LAQEERFAAVLKEYELKCRDLQDRNDELQAELEGLWARLPKNRHSPSWSPDGRRRQLPGL



GPAGISFLGNSAPVSIETELMMEQVKEHYQDLRTQLETKVNYEREIAALKRNFEEKERKD  
MEQARRREVSVLEGQKADLEELHEKSQEVWGLQEQLQDTARGPEPEQMGLAPCCTQALC  
GLALRHHSHLQQIRREAELSGELSGLGALPARRDLTLELEPPQGGLPRGSQRSEQL  
LERALKLQPCASEKRAQMCVSLALEEEEELEARGKRVDGPSLEAEMQALPKDGLVAGSGQ  
EGTRGLLPLRPGCGERPLAWLAPGDGRESEEAAGAGPRRRQAQDTEATQSPAPAPAPASH  
GPSERWSRMQPCGVDGDIVPKEPEPFGASAAGLEQPGARELPLLGTEDASQTQPRMWE  
PLRPAASCRGQAERLQAIQEERARSWSRGTQEQAQSEQAQARAEGALEPGCHKHSVEVARRG  
SLPSHLQLADPQGSWQEQLAAPEEGETKIALEREKDDMETKLLHLEDVVRALKHVDLRE  
NDRLEFHRLSEENTLLKNDLGRVRQELEAAESTHDAQRKEIEVLKKDKKACSEMEVLNR  
QNQNYKDQLSQLNVRVLQLGQEASTHQAQNEEHRVTIQMLTQSLEEVVRSGQQQSDQIQK  
LRVELECLNQEHQSLQLPWSELQTLEESQDQVQGAHLRLRQAQAHLQEVRLVPQDRVA  
ELHRLSLQGEQARRRLDAQREEHEKQLKATEERVEEAEMILKNMEMLLQEKVDKLKEQF  
EKNTKSDLLLKELYVENAHLVRALQATEEKQRGAEKQSRLLLEKVRALNKLVSRIAPAAL  
SV

>sp|Q0D2K0|NIPA4\_HUMAN Magnesium transporter NIPA4 OS=Homo sapiens GN=NIPAL4 PE=1 SV=3

MPGDSSPGTLPLWDASLSPPLGPDPGGFSRASHAGDKSRPPAPELGSPGAVRPRVGSCAP  
GPMELRVSNSTSCENGSLLHLYCSSQEVLCQIVNDLSPEVPSNATFHSWQERIRQNYGFYI  
GLGLAFLSSFLIGSSVILKKKGLLRLVATGATRAVDGGFGYLDAMWWAGFLTMAAGEVA  
NFGAYAFAPATVVTPLGALSVLISAILSSYFLRESNLLGKLGCVICVAGSTVMVIHAPE  
EEKVTTIMEMASKMKDTGFIVFAVLLVSLILIFVIAPRYGQRNLIYIIICSVIGAFS  
VAAVKGLGITIKNFFQGLPVVRHPLPYILSLILALSSTQVNFLNRALDIFNTSLVFPYI  
YVFFTTVVVTSSIILFKEWYSMSAVDIAGTLSGFVTIILGVFMLHAFKDLDISCASLPHM  
HKNPPSPAPEPTVIRLEDKNVLVDNIELASTSSPEEKPKVFIHS

>sp|P21452|NK2R\_HUMAN Substance-K receptor OS=Homo sapiens GN=TACR2 PE=1 SV=3

MGTCDIVTEANISSGPESNTTGITAFSMPSWQLALWATAYLALVLVAVTGNAIVIWIILA  
HRRMRTVTNYFIVNLALADLCMAAFNAAFNFVYASHNIWYFGRAFCYFQNLFPITAMFVS  
IYSMTAIAADRYMAIVHPFQPRLSAPSTKAVIAGIWLVALALASPQCFYSTVTMDQGATK  
CVVAVPEDSGGKTLLLYHLVVIALLYFLPLAVMFVAYSVIGLTLWRRVAVPGHQAAGANLR  
HLQAMKKFVKTMVLVLTFAICWLPYHLYFILGSFQEDIYCHKFIQQVYLALFWLAMSST  
MYNP IIYCCLNHRFRSGFRLAFRCCPWVTPTKEDKLELTPTTSLSTRVNRCHTKETLFMA  
GDTAPSEATSGEAGRPQDGSGLWFGYGLLAPTKTHVEI

>sp|Q5M9Q1|NKAPL\_HUMAN NKAP-like protein OS=Homo sapiens GN=NKAPL PE=2 SV=3

MPPVSRSSYSEDIVGSRRRRRSSSGSPSPQSRCSSWDGCSRSHSRGREGLRPPWSELDV  
GALYPFSRSGSRGLPRFRNYAFASSWSTSISGYRYRHCYAEERQSAEDYEKEESHQR  
RLKERERIGELGAPEVWGSPKFPQLDSDEHTPVEDEEVTHQKSSSDSNSEHRKKKT  
SRSRNKKKRNKSSKRKHKRKYSDSDSNSESDTNSDSDDDKKRVKAKKKKKKKHKTKKKK  
NKKTKKESDSSCKDSEEDLSEATWMEQPNVADTMDLIGPEAPIIHTSQDEKPLKYGHAL  
LPGEGAAMAAYVYKAGKRIPRRGEIGLTSEEIGSFECSGYMSGSRHRRMEAVRLRKENQI  
YSADEKRALASFNQEERRKRESKILASFREMVHKKTKKDDK

>sp|Q969G9|NKD1\_HUMAN Protein naked cuticle homolog 1 OS=Homo sapiens GN=NKD1 PE=1 SV=1

MGKLHSPAAVCKRRESPEGDSFAVSAAWARKGIEEWIGRQRCPGVSGPRQLRLAGTIG  
RSTRELVGDLRLDTLSEEEEDFRLEVALPPEKTDGLGSGDEKKMERVSEPCPGSKKQLK  
FEELQCDVSMEEDSRQEWFTLYDFDNGKVTREDITSLHTIYEVVDSSVNHSPSSKM  
LRVKLTVAPDGSQSKRSVLVNQADLQSARPRAETKPTEDLRSWEKKQRAPLRFQGDSRLE

QSGCYHHCVDENIERRNHYLDLAGIENYTSQFGPGSPSVAQKSELPPRTSNPTRSRSHPE  
EAIHIPHRKPPQGVDPASFHFLDTPIAKVSELQQRLRGTQDGSKHFVRSPKAQGKSVGUGH  
VARGARNKPPLPAPAVSPSAHLAASPALLPSLAPLGHKHKKHRAKESQQGCRGLQAPL  
ASGGPVLGREHLRELPAVVYESQAGQPVRHEHHHHHEHHHHYHHFYQT

>sp|Q969F2|NKD2\_HUMAN Protein naked cuticle homolog 2 OS=Homo sapiens GN=NKD2 PE=1 SV=1

MGKLQSKHAAAARKRRESPEGDSFVASAYASGRKGAEAAERRARDKQELPNGDPKEGPFR  
EDQCPLQVALPAEKAEGREHPGQLSADDGERAANREGPRGPGGQRLNIDALQCDVSVEE  
DDRQEWTFITYDFDNCQKVTREDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPS  
SKRKEGPPAGQDREPTRCRMEGELAEPRVADRRLSAHVRRPSTDPQPCSERGPYCVDEN  
TERRNHYLDLAGIENYTSRFGPGSPPVQAKQEPQGRASHLQARSRSQEPDTHAVHHRRSQ  
VLVEHVPVASEPAARALDTQPRPKGPEKQFLKSPKSGKPPGVPASSKSGKAFSYYLPAV  
LPPQAPQDGHHLPPPPPPYGHKRYRQKGREGHSPLKAPHAQPATVEHEVVRDLPTPAG  
EGYAVPVIQRHEHHHHHEHHHHHHHHHHFHP

>sp|P26715|NKG2A\_HUMAN NKG2-A/NKG2-B type II integral membrane protein OS=Homo sapiens  
GN=KLRC1 PE=1 SV=2

MDNQGVISDLNLPNPKRQQRKPKGNKNSILATEQEITYAELNLQKASQDFQGNCKTYH  
CKDLPSAPEKLIVIGLIGIICLILMASVTVIVIPSTLIQRHNSSLNTRTQKARHCGHCP  
EEWITYNSCYIYIGKERRTWEESLLACTSKNSSLLSIDNEEMKFLSIISPSSWIGVFRN  
SSHHPWVTMGLAFKHEIKDSNAELNCAVLQVNRLKSAQCGSSIIYHCKHKL

>sp|P26718|NKG2D\_HUMAN NKG2-D type II integral membrane protein OS=Homo sapiens GN=KLRK1  
PE=1 SV=1

MGWIRGRSRHSWEMSEFHNYNLDLKKSDFFSTRWQKQRCPPVKSCKRENASPPFFCCFIA  
VAMGIRFIIMVAIWSAVFLNSLFNQEVQIPLTESYCGPCPNWICYKNNCYQFFDESKNW  
YESQASCMSQNASLLKVYSKEDQDLLKLVKSYHWMGLVHIPTNGSWQWEDGSILSPNLLT  
IEMQKGDALYASSFKGYIENCSTPNTYICMQRV

>sp|Q16617|NKG7\_HUMAN Protein NKG7 OS=Homo sapiens GN=NKG7 PE=1 SV=1

MELCRSLALLGGSGLMFLIALSTDFWFEAVGPTHSAHSGLWPTGHGDIISGYIHVTQT  
FSIMAVLWALVSFVLVSCFPLFPFGHGPLVSTTAFAAAISMVAVYTSERWDQP  
PHPQIQTFFSWFSYLGWVSAILLLCTGALSGLAHCGGPRPGYETL

>sp|P43699|NKX2-1\_HUMAN Homeobox protein Nkx-2.1 OS=Homo sapiens GN=NKX2-1 PE=1 SV=1

MSMSPKHTTFFSVSDILSPLEESYKVKMEGGGLGAPLAAYRQQAAPPTAAMQQAQHAVGH  
HGAVTAAYHMTAAGVQLSHSAVGGYCNGNLGNMSELPPYQDTMRNSASGPGWYGANPDP  
RFPAISRFMGASGMNMSGMGLGSLGDVSKNMAPLPSAPRRKRRVLFSQAQVYELERRF  
KQKQYLSAPERHLASMIHLTPTQVKIWFQNHRYKMKRQAKDKAAQQQLQQDSGGGGGGG  
GTGCPQQQQAQQSPRRVAVPVLVKDGKPCQAGAPAGAASLQGHAAQQAQHQAAQAAQAA  
AAASVSGSGGAGLGAHPGHQPGSAGQSPDLAHHAAAPALQGQVSSLSHLNSSGSDYGT  
SCSTLLYGRTW

>sp|O60551|NMT2\_HUMAN Glycylpeptide N-tetradecanoyltransferase 2 OS=Homo sapiens GN=NMT2  
PE=1 SV=1

MAEDSESAASQSLDDQDTCGIDGDNNEETEHAAGSPGGYLAKKKKKKQKRKKEKPN  
SGGTKSDSASDSQEIKIQPSKNPSVPMQKLQDIQRAMELLSACQGPARNIDEAAKHRYQ  
FWDTPVPKLDDEVITSHGAIEPDKNVRQEPYSLPQGFMMWDTLDLSDAEVLKELYTLLNE  
NYVEDDDNMFRFDYSPEFLWALRPPGWLLQWHCGVRVSSNKKLVGFISAIPANIRIYDS  
VKMVEINFLCVHKKLRSKRVAPVLIREITRRVNLEGIFQAVYTAGVVLPKPIATCRYWH

RSLNPRKLVVEKFHLSRNMTLQRTMKLYRLPDVTKTSGLRPMPEPKDIKSVRELINTYLK  
QFHLAPVMDEEEVAHWFLPREHIIDTFVVESPNGKLTDFLSFYTL PSTVMHHPAHKSLKA  
AYSFYNIHTETPLLDMSDALILAKSKGDFVFNALDLMENKTFLKLFKFGIGDGNLQYYL  
YNWRCPGTDSEKVGVLVQ

>sp|Q9GZQ4|NMUR2\_HUMAN Neuromedin-U receptor 2 OS=Homo sapiens GN=NMUR2 PE=1 SV=2

MSGMEKLQNASWIYQQKLEDPFQKHLNSTEEYLAFLCGPRRSHFPLPVSVVYVPIFVVGV  
IGNVLVCLVILQHQAMKTPTNYFLSLAVSDLLVLLGMPLEVYEMWRNYPFLFGPVGCY  
FKTALFETVCFASILSITTVSVERYVAILHPFRAKLQSTRRRALRILGIVWGFVLFSLP  
NTSIHGIFKHYFPNGSLVPGSATCTVIKPMWIYNFIIQVTSFLFYLLPMTVISVLYLMA  
LRLKKDKSLEADEGNANIQRPCRKSVNKMFLVLVFAICWAPFHIDRLFFSFVEEWSSES  
LAAVFNLVHVVSQVFFYLSSAVNPPIYNLLSRRFQAAFQNVISSFHKQWHSQHDPQLPPA  
QRNIFLTECHFVELTEDIGPQFPCQSSMHNSHLPAALSSEQMSRTNYQSFHFNKT

>sp|P48645|NMU\_HUMAN Neuromedin-U OS=Homo sapiens GN=NMU PE=1 SV=1

MLRTESCRPRSPAGQVAAASPLLLLLLLAWCAGACRGAPILPQGLQPEQQLQWNEIDD  
TCSSFLSIDSQPQASNALEELCFMIMGMLPKPQEQDEKDNTKRFLFHYSKTQKLKGSNVV  
SSVHPLQLVPHLHERRMKRFRVDEEFQSPFASQSRGYFLFRPRNGRRSAGFI

>sp|Q16517|NNAT\_HUMAN Neuronatin OS=Homo sapiens GN=NNAT PE=2 SV=1

MAVAAAASAELLIIGWYIFRVLLQVFLECCIWVGFAFRNPPGTQPIARSEVFRYSLQKL  
AYTVSRTGRQVLGERRQRAPN

>sp|Q14978|NOLC1\_HUMAN Nucleolar and coiled-body phosphoprotein 1 OS=Homo sapiens  
GN=NOLC1 PE=1 SV=2

MADAGIRRVPSDLVPLVLGFLRDNQLSEVANKFAKATGATQQDANASSLLDIYSFWLKS  
AKVPERKLQANGPVAKKAKKKASSDSEDSEEEEEVQGPPAKKAAVPAKRVGLPPGKAA  
AKASESSSSESSDDDEEDQKKQPVQKGVKPAKAAKAPPKAKSSDSDSSSEDEPP  
KNQKPKITPVTVKAQTKAPPKPARAAPKIANGKAASSSSSSSSSSDDSEEEKAAATPK  
KTVPKKQVVAKAPVKAATTPTRKSSSSEDSSSDEEEEQKKPMKNKPGPYSSVPPPSAPPP  
KKS LGTQPPKAVEKQPVESSEDSSDES SSSSEEEKPPTKAVVSKATTKPPPAKKA AE  
SSSDSSSDSSEDDEAPSKPAGTTKNSSNKPAVTTKSPAVKPAAAPKQPVGGGQKLLTRK  
ADSSSSEEESSSSEEEKTKMVATTKPKATAKAALSLPAKQAPQGSRDSSSDSSSSEE  
EEKTSKSAVKKKPKQKVAGGAAPSKPASAKKGAESSNSSSSDSSSEEEEEKLGKGS PR  
PQAPKANGTSALTAQNGKAAKNSEEEEEKKKAAVVVSKSGSLKRRKQNEAAKEAETPQA  
KKIKLQTPNTFPKRKKGEKRASSPFRRVREEEIEVD SRVADNSFDAKRGAGDWGERANQ  
VLKFTKGKSRHEKTKKKRGSYRGG SISVQVNSIKFDSE

>sp|Q5C9Z4|NOM1\_HUMAN Nucleolar MIF4G domain-containing protein 1 OS=Homo sapiens GN=NOM1  
PE=1 SV=1

MAASRSAGEAGPGGSQGRVVRMKRRGGRGPRRGPAGGGEKALKRLKLAVEEFVHATSEGE  
APGGCEGRGAPVSFRPGGRKSRKELRKEKRHLRKARRLQRTAGPEQGPGLGGRSGAE EAS  
GHRQDTEERARPAPSRDPSPPRKPRPSRVKAKATAATAKTRPSAAATAAARKRALLAANE  
EEDREIRKLERCLGLNKRKKKGSSSVPLSFARDGLDYILGALESGKNSGLYDSSGEEEE  
DAGQTLPESDLESQSDESEEEEEGDVEKEKKAQEAQAQSEDDDEDTEEEQGEEKEKGAQ  
EKRRGKRVRF AEDEEKSENSEDGDI TDKSLCGSGEKYIPPHVRQAEETVDFKKKEELER  
LKKHVKGLLNRLSEPNMASISGQLEELYMAHSRKDMNDLTLSALMGACVTASAMPSRLMM  
EHVLLVSI LHHTVGIEVGAHFLEAVVRKFDAIYKYGSEGKECDNLFTVIAHLYNFHVVS  
LLIFDILKKLIGTFTEKDIELILLMLKNVGFSLRKDDALSLKELITEAQTKASGAGSEFQ

DQTRIRFMLETMLALKNNDMRKIPGYDPEPVEKLRKLQRALVRNAGSGSETQLRVSWDSV  
LSAEQTGRWWIVGSAWSGAPMIDNSHHTHLQKQLVGTVSSKILELARKQRMNTDIRRNIF  
CTIMTSEDFLDAFEKLLKLGLKDQQEREIIHVLMDCLQEKTYPFYAFLASKFCEYERR  
FQMTFQFSIWDKFRDLENLPATNFSNLVHLVAHLLKTKSLSLSILKVVEFSELDKPRVRF  
LRKVLSELLMETEVEDLSLIFTRVSDNPKLGVLEGLKLFISHFLLKNAQAHRSADKANV  
LREKADLATKCLQGKASLRM

>sp|Q15155|NOM01\_HUMAN Nodal modulator 1 OS=Homo sapiens GN=NOM01 PE=1 SV=5

MLVGQGAGPLGPAVVTAADVLLLSGVGPAHGSSEIVVCGGGFVKSDVEINYSLEIKLYT  
KHGTLKYQTDCAPNNGYFMIPLYDKGDFILKIEPPLGWSFEPTTVELHVDGVSDICTKGG  
DINFVFTGFSVNGKVL SKGQPLGPAGVQVSLRNTGTEAKIQSTVTQPGGKFAFFKVLPGD  
YEILATHPTWALKEASTTVRVNTSNANAAASPLIVAGYNVSGSVRSDEPMKGVKFLFSS  
LVTKEDVLGCNVSPVPGFQPQDESLVYLCYTVSREDGSFSFYSLPSGGYTVIPFYRGERI  
TFDVAPSRLDFTVEHDSLKIEPVFHVGMFSVTGRVLNGPEGDGVPEAVVTLNNQIKVTK  
ADGSFRLENITTGTYYTHAQKEHLYFETVTIKIAPNTPQLADIIATGFSVCGQISIIIRFP  
DTVKQMNKYKVVLSQDKDKSLVTVETDAHGSFCFKAKPGTYKVQVMVPEAETRAGLTLK  
PQTFPLTVTNRPMDVAFVQFLASVSGKVSCLDTCGDLLVTLQSLSRQGEKRSLLSGKV  
NAMTFTFDNVLPKYKISIMHEDWCWKNKSLEVEVLEDDMSAVEFRQTGYMLRCSLSHAI  
TLEFYQDGNNGRENVGIYNLSKGVNRFCLSKPGVYKVTPRSCHRFEQAFYTYDTSSPSILT  
LTAIRHHVLGTITTDKMDVTVTIKSSIDSEPALVLGPLKSVQELRREQQLAEIEARRQE  
REKNGNEEGEERMTKPPVQEMVDELQGPFSYDFS YWARSGEKITVTPSSKELLYPPSME  
AVVSGESCPGKLEIHGKAGLFLEGQIHPELEGVEIVISEKGASSPLITVFTDDKGAYSV  
GPLHSDLEYTVTSQKEGYVLTAVEGTIGDFKAYALAGVSFEIKAEDDQPLPGVLLSLSGG  
LFRSNLLTQDNGILTFSNLSPGQYFQPMKKEFRFEPSSQMIEVQEGQNLKITITGYRTA  
YSCYGTVSSNNGEPEQGVAMEAVGQNDCSIYGEDTVTDEEGKFRRLRGLLPGCYVHVQLKA  
EGNDHIERALPHHRVIEVGNNIDDVNIIVFRQINQFDLSGNVITSSEYLPVLWKLYKS  
ENLDNPIQTVSLGQSLFFHFPLLRDGENYVLLDSTLPRSQYDIILPQVSFTAVGYHKK  
ITLIFNPTRKLPEDIAQGSYIALPLTLLVLLAGYNHDKLIPLLLQLTSRLQGVRLGQA  
ASDNSGPEDAKRQAKKQKTRRT

>sp|Q5JPE7|NOM02\_HUMAN Nodal modulator 2 OS=Homo sapiens GN=NOM02 PE=1 SV=1

MLVGQGAGLLGPAVVTAADVLLLSGVGPAHGSSEIVVCGGGFVKSDVEINYSLEIKLYT  
KHGTLKYQTDCAPNNGYFMIPLYDKGDFILKIEPPLGWSFEPTTVELHVDGVSDICTKGG  
DINFVFTGFSVNGKVL SKGQPLGPAGVQVSLRNTGTEAKIQSTVTQPGGKFAFFKVLPGD  
YEILATHPTWALKEASTTVRVNTSNANAAASPLIVAGYNVSGSVRSDEPMKGVKFLFSS  
LVTKEDVLGCNVSPVPGFQPQDESLVYLCYTVSREDGSFSFYSLPSGGYTVIPFYRGERI  
TFDVAPSRLDFTVEHDSLKIEPVFHVGMFSVTGRVLNGPEGDGVPEAVVTLNNQIKVTK  
ADGSFRLENITTGTYYTHAQKEHLYFETVTIKIAPNTPQLADIVATGFSVCGRISIIIRFP  
DTVKQMNKYKVVLSQDKDKSLVTVETDAHGSFCFKAKPGTYKVQVMVPEAETRAGLTLK  
PQTFPLTVTDRPMDVAFVQFLASVSGKVSCLDTCGDLLVTLQSLSRQGEKRSLLSGKV  
NAMTFTFDNVLPKYKISIMHEDWCWKNKSLEVEVLEDDVSAVEFRQTGYMLRCSLSHAI  
TLEFYQDGNNGRENVGIYNLSKGVNRFCLSKPGVYKVTPRSCHRFEQAFYTYDTSSPSILT  
LTAIRHHVLGTITTDKMDVTVTIKSSIDSEPALVLGPLKSVQELRREQQLAEIEARRQE  
REKNGNEEGEERMTKPPVQEMVDELQGPFSYDFS YWARSGEKITVTPSSKELLYPPSME  
AVVSGESCPGKLEIHGKAGLFLEGQIHPELEGVEIVISEKGASSPLITVFTDDKGAYSV  
GPLHSDLEYTVTSQKEGYVLTAVEGTIGDFKAYALAGVSFEIKAEDDQPLPGVLLSLSGG

LFRSNLLTQDNGILTFSNLSPGQYYFKPMMKEFRFEPSSQMIEVQEGQNLKITITGYRTA  
YSCYGTVSSSLNGEPEQGVAMEAVGQNDCSIYGEDTVTDEEGKFRLRGLLPQCVYHVQLKA  
EGNDHIERALPHHRVIEVGNNDDVNIIVFRQINQFDLSGNVITSSEYLPTLWVKLYKS  
ENLDNPIQTVSLGQSLFFHFPPLLRDGENYVLLDSTLPRSQYDYLQVVSFTAVGYHKH  
ITLIFNPTRKLPEQDIAQGSYIALPLTLLVLLAGYNHDKLIPLLLQLTSRLQGVGALGQA  
ASDNSGPEDAKRQAKKQKTRRTLRLQEEFQLMWCLVPWRGTLGIHLFSSLPFASEILLET  
TATCIHY

>sp|Q9Y2X3|NOP58\_HUMAN Nucleolar protein 58 OS=Homo sapiens GN=NOP58 PE=1 SV=1

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFQDQTAELAAAF  
TALMEGKINKQLKKVLKKIVKEAHEPLAVADAKLGGVKEKLNLSCHSPVVNELMRGIR  
SQMDGLIPGVEPREMAAMCLGLAHSLSRYRLKFSADKVDTMIVQAISLLDDLDKELNNYI  
MRCREWYGWHPPELGKIIISDNLTCKCLQKVGDRKNYASAKLSELLPEEVEAEVAAAEEI  
SMGTEVSEEDICNHLCTQVIEISEYRTQLYEYLQNRMMAIAPNVTVMVGELVGARLIA  
HAGSLNLAKHAASVTQILGAEKALFRALKSRRTPKYGLIYHASLVGQTSPKHKGKISR  
MLAAKTVLAIRYDAFGEDSSSAMGVENRAKLEARLRTLEDGRGIRKISGTGKALAKTEKYE  
HKSEVKTYDPSGDSTLPTCSKKRKIEQVDKEDEITEKKAKKAKIKVKVEEEEEEEKVAEEE  
ETSVKKKKKRGKKKHIKEEPLSEEEPCTSTAIASPEKKKKKKKKREND

>sp|P46531|NOTCH1\_HUMAN Neurogenic locus notch homolog protein 1 OS=Homo sapiens GN=NOTCH1  
PE=1 SV=4

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>sp|Q04721|NOTC2\_HUMAN Neurogenic locus notch homolog protein 2 OS=Homo sapiens GN=NOTCH2  
PE=1 SV=3

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>sp|Q9UM47|NOTC3\_HUMAN Neurogenic locus notch homolog protein 3 OS=Homo sapiens GN=NOTCH3  
PE=1 SV=2

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>sp|P51513|NOVA1\_HUMAN RNA-binding protein Nova-1 OS=Homo sapiens GN=NOVA1 PE=1 SV=1

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VPNSTAGLIIGKGGATVKAVMEQSGAWVQLSQKPDGINLQERVVTVSGEPEQNRKAVELI  
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AAFAVLSGFTGNDLVAITSAINTLASYGYNLNTLGLGLSQAAATGALAAAAASANPAAA  
AANLLATYASEASASGSTAGGTAGTFALGSLAAATAATNGYFGAASPLAASAILGTEKST  
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>sp|P20393|NR1D1\_HUMAN Nuclear receptor subfamily 1 group D member 1 OS=Homo sapiens  
GN=NR1D1 PE=1 SV=1

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NMYPHGRSGRTVQEIWEDFMSFTPAVREVVEFAKHIPGFRDLSQHDQVTLLKAGTFEVL  
MVRFASLFNVKDQTMFLSRTTYSLQELGAMGMDLLSAMFDFSEKLSLALTEELGLF  
TAVVLVSADRSKMENSASVEQLQETLLRALRALVLKNRPLETSRFTKLLKLPLDLRLNN  
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>sp|075469|NR1I2\_HUMAN Nuclear receptor subfamily 1 group I member 2 OS=Homo sapiens  
GN=NR1I2 PE=1 SV=1

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CKGFFRRAMKRNARLRCFPRKGACEITRKTRRQCQACRLRKCLESGMKKEMIMSDEAVEE  
RRALIKRKKKERTGTQPLGVQGLTEEQRMIRELMDAQMKTFDITTFSHFKNFRLPGVLSS  
GCELPESLQAPSREEAAKWSQVRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLL



PHMADMSTYMFKGIISFAKVISYFRDLPIEDQISLLKGAAFELCQLRFNTVFNAETGTWE  
CGRLSYCLEDTAGGFQQLLLEPMLKFHYMLKKLQLHEEEYVLMQAISLFSPPDRPGVLQHR  
VVDQLQEQAIFAILTKSYIECNRPQPAHRFLFLKIMAMLTLSINAQHTQRLRLRIQDIHPF  
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>sp|Q86WQ0|NR2CA\_HUMAN Nuclear receptor 2C2-associated protein OS=Homo sapiens GN=NR2C2AP  
PE=1 SV=1

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QLQIQFQGGFSSRRGCLEGSQGTQALHKIVDFYPEDNNSLQTFPIPAAEVDRLKVTFEDA  
TDFFGRVVIYHLRVLGEKV

>sp|Q68D85|NR3L1\_HUMAN Natural cytotoxicity triggering receptor 3 ligand 1 OS=Homo sapiens  
GN=NCR3LG1 PE=1 SV=1

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RCEVVVTPLKAQGTVQLEVVASPASRLLLDQVGMKENEKYMCESSGFYPEAINITWEKQ  
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ILKHWSFDTQTLLKKEHLIFFCTRAWPSYQLQDGEAWPEGSVNINTIQQLDVFCRQEGK  
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>sp|P22736|NR4A1\_HUMAN Nuclear receptor subfamily 4 group A member 1 OS=Homo sapiens  
GN=NR4A1 PE=1 SV=1

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SGPPQPPAFFSFSPTGPSPLAQSPKLFPQATHQLGEGESYSMPATAFPGLAPTSPLH  
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PANLLTSLVRAHLDSGPSTAKLDYSKFQELVLPFHGKEDAGDVQQFYDLLSGSLEVIKRW  
AEKIPGAELSPADQLLLESFALELFILRLAYRSKPGEGKLIFCSGLVLHRLQCARGFG  
DWIDSILAFSRSLHSLLDVPAFACLSALVLTDRHGLQEPRRVEELQNRIASCLKEHVA  
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>sp|Q86W25|NAL13\_HUMAN NACHT, LRR and PYD domains-containing protein 13 OS=Homo sapiens  
GN=NLRP13 PE=2 SV=2

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EFAAMS FVLEEPREFPPHSTKPKQEMKMLLQHVLLDKEAYWTPVVLFFFGLLNKNIAREL  
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>sp|Q86W24|NAL14\_HUMAN NACHT, LRR and PYD domains-containing protein 14 OS=Homo sapiens  
GN=NLRP14 PE=1 SV=1

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SLDLGNNDLQDDGVKILCDALRYPNCNIQRLGLEYCGLTSLCCQDLSSALICNKRLIKMN  
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>sp|Q9NX02|NALP2\_HUMAN NACHT, LRR and PYD domains-containing protein 2 OS=Homo sapiens  
GN=NLRP2 PE=1 SV=1

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IEDICGDWEKKKVPVLLGSLLNRVMLPKAALLVTTRPRALRDLRILAEPIYIRVEGFL  
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TCLTRTGLFLRFLCSRFPQGAQLRGALRTLSLLAAQGLWAQTSVLHREDLERLGVQESDL  
RLFLDGDILRQDRVSKGCYSFIHLSFQQFLTALFYTLEKEEEEEDRDGHTWDIGDVQKLLS  
GVERLRNPDLIAGYYSFGLANEKRAKELEATFGCRMSPDIKQELLRCDISCKGGHSTVT  
DLQELLGCLYESQEEELVKEVMAQFKEISLHLNAVDVVPSSFCVKHCRNLQKMSLQVIKE  
NLPENVTASESDAEVERSQDDQHMLPFWTDLCSIFGSNKDLMGLAINDSFLSASLVRILC  
EQIASDTHLQRVVFKNISPADAHRNLCLALRGHKTVTYTLTQGNQDDMFALCEVLRH  
PECNLRYLGLVSCSATTQQWADLSLALEVNQSLTCVNLSDNELLDEGAKLLYTTLRHPKC

FLQRLSLENCHLTEANCKDLAAVLVVSRELTHLCLAKNPIGNTGVKFLCEGLRYPECKLQ  
TLVLWNCIDITSDGCCDLTKLLQEKSLLCLDLGLNHIGVKGMKFLCEALRKPLCNLRCLW  
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>sp|Q53F19|NCBP3\_HUMAN Nuclear cap-binding protein subunit 3 OS=Homo sapiens GN=NCBP3  
PE=1 SV=2

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PDTSSRRYENKAGSFITGIDVTSKEAIEKKEQRAKRFHFRSEVNLAQRNVALDRDMMKKA  
PKVRLETIYICGVDEMSTQDVFSYFKEYPPAHIEWLDDTSCNVVWLEMTATRALINMSS  
LPAQDKIRSRDASEDKSAEKRRKKDKQEDSSDDDEAEGEVEDENSSDVELDTLSQVEEES  
LLRNDLRPANKLAKGNRLFMRFATKDDKKELGAARRSQYMYGNPNYGGMKGILSNWSK  
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QMDMADDRVVVEYHEELPALKQPRERSASRRSSASSSDSEMDYDLELKMISTPSPKKSM  
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PPVSSTKSDIRQLRGKRPHSPEKAFSSNPVVRREPSSDVHSRLGVPRQDSKGLYADTREK  
KSGNLWTRLGSAPKTKEKNTKKVDHRAPGAEEDDSELQRAWGALIKEKEQSRQKKSRLDN  
LPSLQIEVSRESSSGSEAES

>sp|A8MVU1|NCF1C\_HUMAN Putative neutrophil cytosol factor 1C OS=Homo sapiens GN=NCF1C  
PE=5 SV=1

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GKSTATDITGPIILQTYRAIADYEKTSSEMALSTGDVVEVVEKSESGWWFCQMKAKRGW  
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VIRKDDVTGYFPSMYLQKSGQDVSAQRQIKRGAPRRSSIRNAHSIHQRSRKRLSQDAY  
RRNSVRFLQRRRQARPGPQSPGSPLEERQTQRSKPQPAVPPRPSADLILNRCSESTKR  
KLASAV

>sp|P19878|NCF2\_HUMAN Neutrophil cytosol factor 2 OS=Homo sapiens GN=NCF2 PE=1 SV=2

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TRSINRDKHLAVAYFQRGMLYYQTEKYDLAIKDLKEALQLRGNQLIDYKILGLQFKLFA  
CEVLNIAFMYAKKEEWKAAEQALATSMKSEPRHSKIDKAMECVWKQKLYEPVVIPVG  
KLFRPNERQVAQLAKKDYLKATVVASVVDQDSFSGFAPLQPAAEPPPRPKTPEIFRAL  
EGEAHRVLFQFVPETKEELQVMPGNIVFVLKKGNDNWATVMFNGQKGLVPCNYLEPVELR  
IHPQQPQEESPQSDIPAPPSSKAPGRPQLSPGQKQKEPKVKLSVPMPYTLKVHYKY  
TVVMKTQPGLPYSQVRDMVSKKLELRLEHTKLSYRPRDSNELVPLESDSMKDAWGQVKNY  
CLTLWCENTVGDQGFPEPKESEKADANNQTTEPQLKKGSQVEALFSYEATQPEDLEFQE  
GDIILVLSKVNEEWLEGECKGKVGIFPKVFVEDCATTDLESTRREV

>sp|O00533|NCHL1\_HUMAN Neural cell adhesion molecule L1-like protein OS=Homo sapiens  
GN=CHL1 PE=1 SV=4

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GNPEPTFSWTKDGNPFYFTDHRIIPSNNSGTFRIPNEGHIHSHFQGKYRCFASNKLG  
EIEFIVPSVPKFPKEKIDPLEVEEGDPIVLPNPPKGLPLHIYWMNIELEHIEQDERV  
YMSQKGDLYFANVEEKDSRNDYCCFAAFPRLRITVQKMPMKLTVNSSNSIKQRKPKLLP  
PTESGSESSITILKGEILLCEFAEGLPTPQVDWNKIGGDLPGRETKENYGKTLKIENV  
SYQDKGNRYCTASNFLGTATHDFHIVEEPPRWTKKPQSAVYSTGSNGILLCEAEGEPQP

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VRPLIQTKDGENYATVVGYSAFLHCEFFASPEAVVSWQKVEEVKPLEGRRYHIYENGLTQ  
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DSHLKHSCLKSWSKDGEAFEINGTEDGRIIIDGANLTISNVTLEDQGIYCCSAHTALDSA  
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QASQPKEMI IKWEPLKSMEQNGPGLEYRVTWKPQGAPVEWEEETVTNHTLRVMTPAVYAP  
YDVKVQAINQLGSGPDPQSVTLYSGEDYPTAPVIHGVDVINSTLVKVTWSTVPKDRVHG  
RLKGYQINWWKTKSLLDGRTHPKEVNILRFSGQRNSGMVPSLDAFSEFHLTVLAYNSKGA  
GPESEPYIFQTPEGVPEQPTFLKVIKVDKDTATLSWGLPKKLNGNLTG YLLQYQIINDTY  
EIGELNDINITTPSKPSWHLNLNATTKYFYLRACSTQCGCKPITEESSTLGEKSGKIG  
KISGVNLTQKTHPIEVFEPGAEHIVRLMTKNWGDNDISFQDVIETRGREYAGLYDDISTQ  
GWFIGLMCAIALLTLLLLTVCVFKRNRGGKYSVKEKEDLHPDPEIQSVKDETFGEYSDSD  
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TATFPLRA

>sp|O43639|NCK2\_HUMAN Cytoplasmic protein NCK2 OS=Homo sapiens GN=NCK2 PE=1 SV=2

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SLKKGSLVKNLKDITLGLGKTRRKTSARDASPTPSTDAEYPANGSGADRIYDLNIPAFVKF  
AYVAEREDELVLKGSRVTVMEKCSDGWWRGSGYNGQIGWFPSNYVLEEVDEAAAESPSFL  
SLRKGASLSNGQGSRLVHVVTLYPFSSVTEELNFEKGETMEVIEKPENDPEWWCKNA  
RGQVGLVPKNYVVVLSGDPALHPAHAPQISYTGSSSGRFAGREWYGNVTRHQAECALN  
ERGVEGDFLIRDESSPSDFSLSLKASGKNKHFKVQLVDNVYCIGQRRFHTMDELVEHYK  
KAPIFTSEHGEKLYLVRLQ

>sp|Q5T1S8|NCMAP\_HUMAN Noncompact myelin-associated protein OS=Homo sapiens GN=NCMAP PE=3  
SV=1

MTTATPLGDTTFFSLNMTTRGEDFLYKSSGAIVA AVVVVVIIIFTVVLILLKMYNRKMRT  
RRELEPKGPKPTAPSAVGPNSSGSHPATVTFSPVDVQVETR

>sp|Q15596|NCOA2\_HUMAN Nuclear receptor coactivator 2 OS=Homo sapiens GN=NCOA2 PE=1 SV=2

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EALDGGFFVFNLEGNVVFVSENVTQYLRYNQEELMNKSVYSILHVGDHTEFVKNL LPKSI  
VNGGSWSGEP RRNSHTFNCRLVKPLPDSEEEGHDNQE AHQKYETMQCF AVSQPKSIKE  
EGEDLQSCLICVARRVPMKERVLPSSSEFTTRQDLQGKITSLDTSTMRAAMKPGWEDLV  
RRCIQKFHAHQHEGESVSYAKRHHHEVLRQGLAFSQIYRFSLSDGTLVAAQTKSKLIRSQT  
TNEPQLVLSLHMLHREQNVCMNPDLTGQTMGKPLNPISNSPAHQALCSGNPGQDMTSL  
SNINFPINGPKEQMGMPMGRFGSGGMNHVSGMQATTPQGSNYALKMNSPSQSSPGMNP  
GQPTSM LSPRRHMSPGVAGSPRIPPSQFSPAGSLHSPVGVCSSTGNSHSYTNSSLNALQAL  
SEGHGVS LGSSLASPD LKMGNLQNSPVNMNPPLSKMGS LDKDCFLYGEPS EGTGQA  
ESSCHPGEQKETNDPNLPPAVSSERADGQSR LHDSKGQTKLLQLLT TKS DQMEPS PLASS  
LSDTNKDSTGSLPGSGSTHGTSLKEKHKILHRLLDSSSPVDLAKLTAEATGKDLSQESS  
STAPGSEVTIKQEPVSPKKKENALLRYLLDKDDTKDIGLPEITPKLERLDSKTD PASNTK  
LIAMKTEKEEMSFE PGDPQGS ELDNLEEILDDLQNSQLPQLFPDTRPGAPAGSVDKQAI I  
NDLMQLTAENSPVTPVGAQKTALRISQSTFNNPRPGQLGRLLPNQNLPLDITLQSPTGAG  
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VRVTCATTSAMNRPVQGGMIRNPAASIPMRPSSQPGQRQTLSQVMNIGPSELEMMGG  
PQYSQQQAPPNQTAWPESILPIDQASFASQNRQPFQSSPDDLCPHPAAESPSDEGALL  
DQLYLALRNFGLLEEIDRALGIPELVSSQSAVDPEQFSSQDSNIMLEQKAPVFPQQYASQ  
AQMAQGSYSPMQDPNFHTMGQRPSYATLRMQPRPGLRPTGLVQNQPNQLRLQLQHRLQAQ  
QNRQPLMNQISNVSNNLTLRPGVPTQAPINAQMLAQRQREILNQHLRQRQMHQQQVQQ  
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PQSPLMSPRMAHTQSPMMQQSQANPAYQAPSDINGWAQGNMGGSNMFSSQSPPHFGQQAN  
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>sp|Q9Y6Q9|NCOA3\_HUMAN Nuclear receptor coactivator 3 OS=Homo sapiens GN=NCOA3 PE=1 SV=1

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LDGFLFVVNRDGNIVFVSENVQYLQYKQEDLVNTSVYNILHEEDRKDFLKNLPKSTVNG  
VSWTNETQRQKSHTFNCRMLMKTPHDILEDINASPEMRQRYETMQCFALSQPRAMMEEGE  
DLQSCMICVARRITTGERTFPSNPESFITRHDLSGKVVNIDTNSLRSSMRPGFEDIIRRC  
IQRFFSLNDGQSWQKRHYQEAYLNGHAETPVYRFSADGTIVTAQTKSKLFRNPVTNDR  
HGFVSTHFLQREQNGYRPNPNPVGGQIRPPMAGCNSSVGGMSMPNQLQMPSSRAYGLA  
DPSTTGQMSGARYGGSSNIASLTGPGMQSPSSYQNNNYGLNMSSPHGSPGLAPNQNI  
MISPRNRGSPKIASHQFSPVAGVHSPMASSGNTGNHSFSSSSLSALQAISEGVGTSLLST  
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SSVEGAENQRGPLESKGHKLLQLLTSSDDRGHSSLTNSPLDSSCKESSVSVTSPSGVS  
SSTSGGVSSTSNMHGSLLEKHLRILHKLQNGNSPAEVAKITAEATGKDTSSITSCGDGN  
VVKQEQLSPKKKKNALLRYLLDRDDPSDALSKELQPQVEGVNDKMSQCTSSTIPSSSQE  
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SSQSVQSI RPPYNRAVSLDSPSVGSSPPVKNISAFPMPLPKQPMLGGNPRMMSQENYGS  
SMGGPNRNVTVTQTPTSSGDWGLPNKAGRMPEMNSNSMGRPGDYNTSLPRPALGGS IPT  
LPLRSNSIPGARPV LQQQQQMLQMRPGEIPMGMGANPYGQAAASNQLGSWPDGMLSMEQV  
SHGTQNRPLLRNSLDDL VGPPSNLEGQSDERALLDQLHTLLSNTDATGLEEIDRALGIPE  
LVNQQALEPKQDAFQGQEAAMMDQKAGLYGQTYPAQGPPMQGGFHLQGGQSPSFNSMMN  
QMNQQGNFPLQGMHPRANIMRPTNTPKQLRMQLQQLRQGGQFLNQSRQALELKMENPTA  
GGAVMRPMMPQVSSQGGFLNAQMAQRSRELLSHHFRQQRVAMMMQQQQQQQQQQQQQ  
QQQQQQQQQQQQQQQTQAFSPPPNVTASPSMDGLLAGPTMPQAPPQFPYQPNYGMGQQ  
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>sp|Q9HCD5|NCOA5\_HUMAN Nuclear receptor coactivator 5 OS=Homo sapiens GN=NCOA5 PE=1 SV=2

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YRREGSYDRYLRMDYCRKDDSYFDRYRDSFDGRGPPGPESQSRAKERLKKREERRREEL  
YRQYFEEIQRRFDAERPVDCSVIVVNKQTKDYAESVGRKVRDLGMVVDLIFLNTEVSLSQ  
ALEDVSRRGGSPFAIVITQQHQIHRSCTVNIMFGTPQEHNRMPQADAMVLVARNYERYKNE  
CREKEREIEIARQAAKMADEAILQERERGGPEEGVRGGHPPAIQSLINLLADNRYLTAEET  
DKIINYLRERKERLMRSSTDLSLPGPISRQPLGATSGASLKTQPSSQPLQSGQVLPSATPT  
PSAPPTSQQELQAKILSLFNSGTVTANSSSASPSVAAGNTPNQNFSTAANSQPQRSQAS  
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>sp|P40205|NCYM\_HUMAN N-cym protein OS=Homo sapiens GN=MYCNOS PE=1 SV=2

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LLLCNYERRVRRCKIAGRGRAPLGRPLDVSSFKLKEGRPPCLKINK

>sp|Q86UT5|NHRF4\_HUMAN Na(+)/H(+) exchange regulatory cofactor NHE-RF4 OS=Homo sapiens

GN=PDZD3 PE=1 SV=2

MVTPSPPGNHSLSEAPRLHTASDLLGNHSLGLPLITALVGSRRRGRVFSVPVPLPTN

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EEGKSFGFHLQQLGRAGHVCRVDPGTSARQQLQEGDRILAVNNDVVEHEDYAVVVR

IRASSPRVLLTVLARHAHDVARAQLGEDAHLCPITLGPVVRPRLCHIVKDEGGFGFSVTHG

NQGPFWLVLSTGGAAERAGVPPGARLLEVNVSVEKFTHNQLTRKLWQSGQQTLLVAGP

EVEEQCRQLGLPLAAPLAEGWALPTKPRCLHLEKGPQGFGLREEKGLDGRPGQFLWEV

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>sp|Q5HYW2|NHSL2\_HUMAN NHS-like protein 2 OS=Homo sapiens GN=NHSL2 PE=1 SV=1

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GPGGASRFRERSLSVPTDSGTTDVEDYDEEQKANEACALPFASTSSEGSNSADNIASLSAQ

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HQGHSSHPDAQGHPAIPNHKDPESTQFSHHWYLTDWKSGDTYQSLSSSSTATGTTVIEC

TQVQGSSESLASPSTSRATTPSLSIEVEAREISSPGRPPGLMSPSSGYSSQSETPTPTV

SMSLTGLHLPPPSSSVRVRPVPERKSSLPPTSPMEKFPKSRLSFDLPLTSSPNLDLSGM

SISIRSKTKVSRHSETNFGVLAQKTNPQPIMPMTQSDLRSVRLRSVSKSEPEDDIE

SPEYAEPPRAEEVFTLPERKTKPPVAEKPPVARRPPSLVHKPPSVPEEYALTSPTLAMPP

RSSIQHARPLPQDSYTVVRKPKPSSFPDGRSPGESTAPSSLVFTPFASSSDAFFSGTQQP

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>sp|Q6T4R5|NHS\_HUMAN Nance-Horan syndrome protein OS=Homo sapiens GN=NHS PE=1 SV=2

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TEGYTSMHFDGCLGKNKSYVCHYAALGPENGQGVGASPLPDCAWQDYLDHQRQGRPSI

SFRKPKAKPTPPKRSSSLRKSDGNADISEKKEPKISSGQHLPSSREMKLPLDFANTPSR  
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RSLSNSSTATGTTVIECIKSPESSESQTSQSESRAATPSLPSVDNEFKLASPEKLAGLAS  
PSSGYSSQSETPTSSFPTAFFSGPLSPGGSKRKPKVPERKSSLQQPSLKDGTISLSKDLE  
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VNLRSINKSEEVKQKEENNTDLPYLEESTLTTAALSPSKIRPHTANKSVSRQYSTEDTIL  
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NTPTKNCAFPTGEGFQRVSAARPNDLDGKIIQYGGPDETLEQVQKAPSAGLEEVAQPESV  
DVITSQSDSPTRATDVSNQFKHQFVMSRHHDKVPGTISYESEITSVNSFPEKCSKQENIA  
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TEDLFAVIHRSKRKVLGRKDSGMSVRSKSRAPLSSSSSSASSITSPSSNVTTPNSQRSP  
GLIYRNAKKSNTSNEEFKLLLLKKGRSDSSYRMSATEILKSPILPKPPGELTAESPQST  
DDAHQGSQGAEALSPLSPCSPRVNAEGFSSKSFATSASARVGRSRAPPAASSSRYSVRCR  
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>sp|Q9GZT8|NIF3L\_HUMAN NIF3-like protein 1 OS=Homo sapiens GN=NIF3L1 PE=1 SV=2

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VGIYSPHTAYDAAPQGVNNWLAKGLGACTSRPIHPSKAPNYPTEGNHRVEFNVNYTQDLD  
KVMSAVKGIDGVSVTSFSARTGNEEQTRINLNCTQKALMQVVDFLSRNKQLYQKTEILSL  
EKPLLLHTGMRLCTLDESVS LATMIDRIKRHLKLSHIRLALGVGRTLESQVKVVALCAG  
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>sp|Q8NFZ4|NLGN2\_HUMAN Neuroligin-2 OS=Homo sapiens GN=NLGN2 PE=1 SV=1

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VWFTDNLEAAATYVQNQSEDCLYLNLVPTEDGPLTKKRDEATLNPPDTDIRDPGKKPVM  
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ALRWLSENI AHFGGDPERITIFGSGAGASCVNLLILSHHSEGLFQKAIAQSGTAISSWSV  
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FAKTGDPNQVPQDTKFIHTKPNRFEEVWWSKFNSKEKQYLHIGLKPRVRDNYRANKVAF  
WLELVPHLHNLHTELFTTTTTRLPPYATRWP RP RPAGAPGTRRPPPPATLPPEPEPEPGPR  
AYDRFPGDSRDYSTE LSVTVAVGASLLFLNILAFAALYYKRDRRQELRCRRLSPPGGSGS  
GVPGGGP LLPAAGREL PPEEELVSLQLKRGGGVGADPAEALRPACPPDYTLALRRAPDDV  
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>sp|Q86WI3|NLRC5\_HUMAN Protein NLRC5 OS=Homo sapiens GN=NLRC5 PE=1 SV=3

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KRPHQSCGSSPRRKQCKKQQL ELAKKYLQLLR TSAQQRYRSQIPGSGQPHAFHQVYVPP I  
LRRATASLDTPEGAIMGDVKVEDGADVSI SLDLFNTRV NKGPRVTVLLGKAGMGKTTLAHR  
LCQKWAEGHLNCFQALFLFEFRQLNLITRFLTPSELLFDLYLSPESDHDTVFQYLEKNAD  
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MVHMLGFDGPRVEEYVNHFFSAQPSREGALVELQTNGRLRSLCAVPALCQVACLCLHHL  
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APPLIAFGATHSLTTSFCVCTGPGHQQTGYAFTHLSLQEF LAAHLMASPKVNKDTLTQY  
VTLHSRWVQRTKARLGLSDHLPTFLAGLASCTCRPFLSHLAQGNEDCVGAKQA AVVQVLK  
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REAPIHLDFDGCPLPCHPEALVCGGQIENLSFKSRKCGDAFAEALSRS LPTMGRLQMLG  
LAGSKITARGISHLVKALPLCPQLKEVSFRDNQLSDQVVLNIVEVLP HLPRLRKLDLSSN  
SICVSTLLCLARVAVTCPTVRMLQAREADLIFLLSPPTETTAELQ RAPDLQESDGQRKGA  
QSRSLTLRLQKCQLQVHDAEALIALQEGPHLEEVDLSGNQLEDEGCRLMAE AASQLHIA  
RKLDLSNGLSVAGVHCVLRAVSACWTLAELHISLQHKTVIFMFAQEPEEQKGPQERAAF  
LDLMLQMPSELPLSSRRMRLTHCGLQEKHLEQLCKALGGSCHLGH LHLDFSGNALGDEG  
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TSRDMWATGSLPDFPAAAKFLGFRQRCIPRSLCLSECPLEPPSLTRLCATLKDCPGPEL  
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RCLLECLPQVPISGLLDLSHNSISQESALYLLETLPSCPRVREASVNLGSEQSFR IHFSR  
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RLAHCDLGAHHSLLVGQLMETCARLQQLSLSQVNLCEDDDASSLLQLSLLLSLSE LKTFR  
LTSSCVSTEGLAHLASGLGHCHHLEELDLSNNQFDEEGTKALMRALEGKWM LKRLDLSHL  
LLNSSTLALLTHRLSQMTCLQSLRLNRNSIGDVGCCHLSEALRAATSLEELDLSHNQIGD  
AGVQHLATILPGLPELRKIDLSGNSISSAGGVQLAESLVLCCRLEELMLGCNALGDPTAL  
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QAPWGT

>sp|Q96P20|NLRP3\_HUMAN NACHT, LRR and PYD domains-containing protein 3 OS=Homo sapiens  
GN=NLRP3 PE=1 SV=3

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LEYLSRISICKMKKDYRKKYRKYVRSRFQCIEDRNARLGESVSLNKRYTRLRLIKEHRSQ  
QEREQELLAIGTKTKCESPVSPIKMELLFDPDEHSEPVHTVV FQGAAGIGKTI LARKMM  
LDWASGTLYQDRFDYLFYIHCREVSLVTQRS LGDLIMSCCPDPNPPIHKIVRKPSRILFL  
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GLKQQMESGKSLAQTSKTTTAVYVFFLSSLLQPRGGSQEHGLCAHLWGLCSLAADGIWNQ  
KILFEESDLRNHGLQKADVSAFLRMNLFQKEVDCEKFYSFIHMTFQE FFAAMYLL EEEK  
EGRTNVPGSRLKLPSRDVTVLLENYGKFEKGYLIFVVRFLFGLVNQERTSYLEKKLSCKI  
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VNSHLTSSFCRGLFSVLSTSQSLTELDLSDNSLGDPMRVLCETLQHPGCNIRRLWLGR C  
GLSHECCFDISLVSSNQKLVELDLSDNALGDFGIRLLCVGLKHL CNLKKLWLVSCLT  
SACCQDLASVLSTSHSLTRLVGENALGDSGVAILCEKAKNPQC NLQKLGLVNSGLTSVC  
CSALSSVLSTNQNLTHLYLRGNTLGDGKIKLLCEGLLHPDCKLQVLELDNCNL TSHCCWD



LSTLLTSSQSLRKLSLGNNDLGDVGMMFCEVLKQQSCLLQNLGLSEMYFNYETKSALET  
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>sp|Q8TCU5|NMD3A\_HUMAN Glutamate receptor ionotropic, NMDA 3A OS=Homo sapiens GN=GRIN3A  
PE=1 SV=2

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ALWPRDALLFAVDNLNRVEGLLPYNLSLEVMAIEAGLDPLLPFSSPSPWSSDPFSF  
LQSVCHTVVVQGSALLAFQSQGEMMELDLVSLVLHIPVISIVRHEFPRESQNPLHLQL  
SLENSLSSDADVTVSILTMNNWYNFSLLLCQEDWNITDFLLLTQNNKFHLGSIINITAN  
LPSTQDLLSFLQIQLESIKNSTPTVVMFGCDMESIRRIFEITTQFGVMPPELRWVLGDSQ  
NVEELRTEGLPLGLIAHGKTTQSVFEHYVDAMELVARAVATATMIQPELALIPSTMNCM  
EVETNTLTSGQYLSRFLANTTFRGLSGSIRVKGSTIVSSENNFFIWNLQHDPMGKPMWTR  
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QLCLDPMTNDSSTLDSLFSSSHNDTVPIKFKKCCYGYCIDLLEKIAEDMNFDFDLYIV  
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DMLHDKWYRVVPCGKRFAVTETLQMGIKHFSGLFVLLCIGFGLSILTTIGEHIVYRLLL  
PRIKNKSKLQYWLHTSQLHRAINTSFIEEKQQHFKTKRVEKRSNVGPRQLTVWNTSNLS  
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>sp|Q12879|NMDE1\_HUMAN Glutamate receptor ionotropic, NMDA 2A OS=Homo sapiens GN=GRIN2A  
PE=1 SV=1

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FVPILGIHGGASMIMADKPTSTFFQFGASIQQATVMLKIMQDYDWHVFSLVTTIFPGY  
REFISFVKTTVDNSFVGWDMQNVITLDTSFEDAQTQVQLKKIHSSVILLYCSKDEAVLIL  
SEARSLGLTG YDFFWIVPSLVSGNTELPKEFP SGLISVS YDDWDYSLEARVRDGIGILT  
TAASSMLEKFSYIPEAKASCYQMERPEVPMHTLHPFMVNVTDGKDLSTEEGYQVHPR  
LVVIVLNKDREWEKVGKWHNTLSLRHAVWPRYKSFSDCEPDDNHL SIVTLEEAPFVIVE  
DIDPLTETCVRNTVPCRKFVKINNSTNEGMNVKKCKGFCIDILKKLSRTVKFTYDLYLV  
TNGKHGKKVNNVWNGMIGEVVYQRAVMAVGLTINEERSEVVD FSVPFVETGISVMVSRS  
NGTVSPSAFLEPFSASVWMMFVMLLIVSAIAVFVFEYFSPVGYNRNLAKGKAPHGPSFT  
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QVTGLSDKKFQRP HDYSPPFRFGTVPNGSTERNIRNNYPYMHQYMTKFNQKGVEDALVSL  
KTGKLDAFIYDAAVLNYKAGRDEGCKLVTIGSGYIFATTGYGIALQKGSPWKRQIDLALL  
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FYWKLRF CFTGVCSDRPGLLFSISRG IYSCIHGVHIEKKKSPDFNL TGSQSNMLKLLRS  
AKNISSMSNMSSRMDSPKRAADF IQRGSLIMDMVSDKGNLMYSDNRSFQ GKESIFGDNM  
NELQTFVANRQKDNLN NYVFQGGHPLTLNESNPNTVEVAVSTESKANSRPRQLWKKSVDS  
IRQDLSQNPVSQRDEATAENRTHSLKSPRYLPEEMAHS DISETSNRATCHREPDNSKNH  
KTKDNFKRSVASKYPKDCSEVERTYLKTKSSSPRDKIYTI DGEKEPGFHLDP PQFVENVT

LPENVDFPDPYQDPSENFRKGDSTLPMNRNPLHNEEGLSNNDDQYKLYSKHFTLKDKGSPH  
SETSERYRQNSTHCRSCLSNMPTYSGHFTMRSPFKCDACLRMGNLYDIDEDQMLQETGNP  
ATGEQVYQQDWAQNNALQLQKNKLRI SRQHSYDNIVDKPRELDLSRPSRSISLKDRELL  
EGNFYGSLSFVSPSSKLSGKKSSLPQGLEDSKRKSLLPDHTSDNPFLHSHRDDQRLVIG  
RCPSDPYKHSLPSQAVNDSYLRSSLRSTASYCSRDSRGHNDVYISEHVMPYAANKNMYS  
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>sp|Q05586|NMDZ1\_HUMAN Glutamate receptor ionotropic, NMDA 1 OS=Homo sapiens GN=GRIN1  
PE=1 SV=1

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LTTRMSIYSDKSIHLSFLRTVPPYSHQSSVWFEMMRVYSWNHIILLVSDDEGAAQKRL  
ETLLEERESKAQKVLQFDPGKTNVTALLMEAKELEARV IILSASEDDAATVYRAAAMLNM  
TGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAHS DAVGVVAQAVHELLEKEN  
ITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFNEDGDRKFANYSIMNLQNRK  
LVQVGIIYNGTHVIPNDRKI IWPGGETEKPRGYQMSTRLKIVTIHQEPFVYVKPTLSDGTC  
KEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCYGCIDLLIKLARTMNFTYEVHLVA  
DGKFGTQERVNNSNKKKEWNGMMGELLSGQADMIVAPLTINNERAQYIEFSKPFKYQGLTI  
LVKKEIPRSTLDSFMQPFQSTLWLLVGLSVHVAVMLYLLDRFSPFGRFKVNSEEEEDA  
LTLSSAMWFSWGVLLNSGIGEGAPRSFSARILGMVWAGFAMIIVASYTANLAAFLVDRP  
EERITGINDPRLRNPDKFIYATVKSSVDIYFRRQVELSTMYRHMEKHNYESA AEAIQA  
VRDNKLHAFIWD SAVLEFEASQKCDLVTTGELFFRSGFGIGMRKDS PWKQNVSL SILKSH  
ENGFMEDLDKTWVRYQECDSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRH  
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>sp|Q8IW45|NNRD\_HUMAN ATP-dependent (S)-NAD(P)H-hydrate dehydratase OS=Homo sapiens  
GN=NAXD PE=1 SV=1

MVTRAGAGTAVAGAVVALLSAALALYGPPDLAVLERAFSLRKAHS IKDMENTLQLVRNI  
IPPLSSTKHKGQDGRIGVVGCCQEYTGAPYFAAISALKVGADLSHVFCASAAAPVIKAYS  
PELIVHPVLDS PNAVHEVEKWLPRLHALVVGPGLRDDALLRNVQGILEVSKARDIPVVI  
DADGLWLVAQQPALIHGYRKAVLTPNHVEFSRLYDAVLRGPMDSDDSHGSVLRLSQALGN  
VTTVQKGERDILSNQQVLVCSQEGSSRRCGGQGDLLSGSLGVLVHWALLAGPQKTNGSS  
PLLVAAFGACSLTRQCNHQAFQKHGRSTTTSDMIAEVGA AF SKLFET

>sp|Q9Y3T9|NOC2L\_HUMAN Nucleolar complex protein 2 homolog OS=Homo sapiens GN=NOC2L PE=1  
SV=4

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RRKGRASEHKDQLSRLKDRDPEFYKFLQENDQSLLNFSDSDSSEEEGPFHSLPDVLEEA  
SEEDGAEEGEDGDRVPRGLKGKKNVPTVAMVERWKQAAKQRLTPKLFHEVVQAFRAA  
VATTRGDQESAEANKFQVTD SAAFNALVTF CIRDLIGCLQKLLFGKVAKDSSRMLQPSSS  
PLWGKLRVDIKAYLGSAILVSVCLSETTVLAAVLRHISVLVPCFLT FPKQCRMLLKRMVI  
VWSTGEESLRVLAFLVLSRVCRHKKDTFLGPVLKQMYITYVRNCKFTSPGALPFISFMQW  
TLTELLALEPGVAYQHAFLYIRQLAIHLRNAMTTRKKETYQSVYNWQYVHCLFLWCRVLS  
TAGPSEALQPLVYPLAQVIIGCIKLIPTARFYPLRMHCIRALTLLSGSSGAFIPVLPFIL  
EMFQQVDFNRKPGRMSSKPI NFSVILKLSNVNLQEKAYRDGLVEQLYDLTLEYLHSAHC  
IGFPELVLPVVLQLKSFLRECKVANYCRVQQLLGKVQENSAYICSRQRVSFGVSEQQA

VEAWEKLTREEGTPLTLYYSHWRKLRDREIQLEISGKERLEDLNFPEIKRRKMADRKDED  
RKQFKDLFDLNSSEEDDTEGFSERGILRPLSTRHGVEDDEEDEEEGEEDSSNSEDGDPDA  
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>sp|Q9Y3C1|NOP16\_HUMAN Nucleolar protein 16 OS=Homo sapiens GN=NOP16 PE=1 SV=2

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DPNRAVPLRKRKVKAMEVDIEERPKELVKPYVLNDLEAEASLPEKKGNTLSRDLIDYVR  
YMVENHGEDYKAMARDEKNYYQDTPKQIRSKINVYKRFYPAEWQDFLDSLQKRKMEVE

>sp|Q86U38|NOP9\_HUMAN Nucleolar protein 9 OS=Homo sapiens GN=NOP9 PE=1 SV=1

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ALGYFRRALSALKEAPETGEERDLMVHNIMKEVETQALALSTNRTGSEMLQELLGFSPLK  
PLCRVWAALRSNLRVTACHRCGVHVLQSALLQLPRLGSAEEEEEEEEEDGKDGPTETLE  
ELVLGLAAEVCDDFLVYCGDTHGSFVVRTLLQVLGGTILESERARPRGSQSSEAQKTPAQ  
ECKPADFEVPETFLNRLQDLSSSFLKDIAVFITDKISSFCLQVALQVLHRKLPQFCAHLC  
NAVIGYLSTRGSSVDGSPLLLFLRDQTSSRLLEQVLLVLEPPRLQSLFEEHLQGGQLQTLA  
AHPIANFPLQRLLDAVTTPELLSPVFEELSPVLEAVLAQGHPGVVIALVGACRRVGAYQA  
KVLQLLLEAFHCAEPSSRQVACVPLFATLMAYEVVYGLTEEEGAVPAEHQVAMAAARALG  
DVTVLGSLLLQHLLHFSTPGLVLRSLGALTGPQLLSLAQSPAGSHVLDAILTSPSVTRKL  
RRRVLQNLKGQYVALACSRHGSRLDAIWGAALRARKEIAAELGEQNQELIRDPFGHHV  
ARNVALTTFLKRREAWEQQGAVAKRRRALNSILED

>sp|Q9UHB4|NDOR1\_HUMAN NADPH-dependent diflavin oxidoreductase 1 OS=Homo sapiens GN=NDOR1  
PE=1 SV=1

MPSPQLLVLFSGQTGTAQDVSERLGREARRRRLGCRVQALDSYPVVNLINELVIFVCAT  
TGQGDPPDNMKNFWRIFRKNLPSTALCQMDFAVLGLGDSSYAKFNFAKKLHRRLLQLG  
GSALLPVCLGDDQHELGPDAAVDPWLRDLWDRVLGLYPPPPGLTEIPPGVPLPSKFTLLF  
LQEAPSTGSEGQVVAHPSGQEPPESEKPFAPMISNQRTGPSHFQDVRLIEFDILGSGI  
SFAAGDVVLIQPSNSAAHVQRFQVGLDPDQFLMLQPREPDVSSPTRLPQPCSMRHLVS  
HYLDIASVPRRSFFELLACLSHELEREKLEFSSAQGEELFEYCNRPRTILEVLCDF  
PHTAAAIIPDYLLDLIPVIRPRAFSIASSLLTHPSRLQILVAVVQFQTRLKEPRRLCSS  
WLASLDPGQGPPVRVPLWVRPGSLAFPETPDTPVIMVPGTGVAPFRAAIQERVAQGGTGN  
FLFFGCRWRDQDFYWEAEWQELEKRDCLTIPAFSREQEKKVYVQHRLRELGSLVWELLD  
RQGAYFYLAGNAKSMPADVSEALMSIFQEEGGLCSPDAAAYLARLQQTRRFQTETWA

>sp|O43181|NDUS4\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 4,  
mitochondrial OS=Homo sapiens GN=NDUFS4 PE=1 SV=1

MAAVSMVVLRLQTLWRRRAVAVAAALSVSRVPTSLRTSTWRLAQDQTQDTQLITVDEKLD  
ITTLTGVP EEHIKTRKVRIFVPARNNMQSGVNNTKKWMEFDTRERWENPLMGWASTADP  
LSNMVLTFSTKEDAVSFAEKNGWSYDIEERKVPKPKSKSYGANFSWNKRTRVSTK

>sp|O43920|NDUS5\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 5 OS=Homo  
sapiens GN=NDUFS5 PE=1 SV=3

MPFLDIQKRFGNLIDRWLTIQSGEQPYKMAGRCHAFEKEWIECAHGIGYTRAEKECKIEY  
DDFVECLLRQKTMRRAGTIRKQRDKLIKEGKYTPPPHHIGKGEPRP

>sp|P19404|NDUV2\_HUMAN NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial  
OS=Homo sapiens GN=NDUFV2 PE=1 SV=2

MFSSAALRARAAGLTAHWGRHVRNLHKTVMQNGAGGALFVHRDTPENNPDPFDFTPENY  
KRIEAIKKNYPEGHKAAVLPVLDLAQRQNGWLPISAMNKVAEVLQVPPMRVYEVATFYT

MYNRKPVGKYHIQVCTTTPCMLRNSDSILEAIQKKLGIKVGETTPDKLFTLIEVECLGAC  
VNAPMVQINDNYIEDLTAKDIEEIIDELKAGKIPKPGPRSGRFSCEPAGGLTSLTEPPKG  
PGFGVQAGL

>sp|Q14494|NF2L1\_HUMAN Nuclear factor erythroid 2-related factor 1 OS=Homo sapiens  
GN=NFE2L1 PE=1 SV=1

MLSLKKYLTEGLLQFTILLSLIGVRVDVDTYLTSQLPPLREIILGPSSAYTQTQFHNLRN  
TLDGYGIHPKSIDLDNYFTARRLLSQVRALDRFQVPTTEVNAWLVHRDPEGSVSGSQPNS  
GLALESSSGLQDVTGPDNGVRESETEQGFGEDELDGAVAPPVSGDLTKEDIDLIDILWR  
QDIDLGAGREVFYDYSRQKEQDVEKELRDGGEQDTWAGEGAEALARNLLVDGETGESFPA  
QVPSGEDQTALSLEECLRLLEATCPFGENAEFPADISSITEAVPSESEPPALQNNLSPL  
LTGTESPFDLQWQDLMSIMEMQAMEVNTSASEILYSAPPGDPLSTNYS LAPNTPINQN  
VSLHQASLGGCSQDFLLFSPEVESLPVASSSTLLPLAPSNSTSLNSTFGSTNLTGLFFPP  
QLNGTANDTAGPELPDPLGGLLDEAMLDEISLMDLAIEEGFNPVQASQLEEEFSDSGLS  
LDSSHPSSSLSSSESSSSSSSSSSSSSSASSASSSFSEEGAVGYSSDSETLDLEEAEG  
AVGYQPEYSKFCRMSYQDPAQLSCLPYLEHVGHNHTYNMAPSALDSADLPPPSALKKGSK  
EKQADFLDKQMSRDEHRARAMKIPFTNDKIINLPVEEFNELLSKYQLSEAQLSLIRDIRR  
RGKNKMAAQNCRRKRLDTILNLERDVEDLQRDKARLLREKVEFLRSLRQMKQKVSLEYQE  
VFGRLRDENGRPYSPSQYALQYAGDGSVLLIPRTMADQQARRQERKPKDRRK

>sp|Q16236|NF2L2\_HUMAN Nuclear factor erythroid 2-related factor 2 OS=Homo sapiens  
GN=NFE2L2 PE=1 SV=3

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QLQKEQEKAFFAQLQLDEETGEFLPIQPAQHIQSETSGSANYSQVAHIPKSDALYFDDCM  
QLLAQTFPFVDDNEVSSATFQSLVPDIPGHIESPVFIATNQAQSPETSVAQVAPVDLDGM  
QQDIEQVWEELLSIPELQCLNIENDKLVETTMVPSPEAKLTEVDNYHFYSSIPSMEKEVG  
NCSPHFLNAFEDSFSSILSTEDPNQLTVNSLNSDATVNTDFGDEFYSAFIAEPSISNSMP  
SPATLSHLSSELLNGPIDVSDLSLCKAFNQNHPESTAEFNDSDSGISLNTSPSVASPEHS  
VESSSYGDTLLGLSDSEVEELDSAPGSVKQNGPKTPVHSSGDMVQPLSPSQGQSTHVHDA  
QCENTPEKELPVSPGHRKTPFTKDKHSSRLEAHLTRDELRAKALHIPFPVEKIINLPVVD  
FNEMMSKEQFNEAQLALIRDIRRGKNKVAQAQNCRRKLENIVELEQDLHLKDEKEKLL  
KEKGENDKSLHLLKKQLSTLYLEVFSMLRDEDGKPYSPSEYSLQQTRDGNVFLVPKSKKP  
DVKKN

>sp|Q8NET5|NFAM1\_HUMAN NFAT activation molecule 1 OS=Homo sapiens GN=NFAM1 PE=1 SV=1  
MENQPVRWRALPGLPRPPGLPAAPWLLLGVLPLPGTLRLAGGQSVTHTGLPIMASLANTA  
ISFSCRITYPYTPQFKVFTVSYFHEDLQGQRSPKKPTNCHPGLGTENQSHTLDCQVTLVL  
PGASATGTYYCSVHWPSTVRGSGTFILVRDAGYREPPQSPQKLLLFGFTGLLSVLSVVG  
TALLWNKKRMRGPGKDPTRKCPDPRSASSPKQHPSES VYTALQRRETEVYACIENEDGS  
SPTAKQSPLSQERPHRFEDDGELNLVYENL

>sp|P23511|NFYA\_HUMAN Nuclear transcription factor Y subunit alpha OS=Homo sapiens GN=NFYA  
PE=1 SV=2

MEQYTANSNSSTEQIVVQAGQIQQQQGGVTAVQLQTEAQVASASGQVQTLQVVQGQPL  
MVQVSGGQLITSTGQPIMVQAVPGGQGTIMQVPVSGTQGLQQLVPPGQIQIQGGQAV  
QVQGGQGTQIIIIQPPQTAVTAGQTQTQQQIAVQGGQVAQTAEGQTIVYQPVNADGTIL  
QQVTVPVSGMITIPAASLAGAIVQTGANTNTSSGQGTVTVTLPVAGNVVNSGGMVMV  
PGAGSVPAIQRIPLPGAEMLEEEPLYVNAKQYHRILKRRQARAKLEAEGKIPKERRKYLH

ESRRHRHAMARKRGEGRFFSPKEKDSPHMQDPNQADEEAMTQIIIRVS

>sp|POCG21|NHLRC4\_HUMAN NHL-repeat-containing protein 4 OS=Homo sapiens GN=NHLRC4 PE=2 SV=1

MLGLEGPCWVGPGPDGGLAVSEEFQDVRLFGSARQPLGSLGGWTGHTFGCPAGICSNSEG  
NVIVADEQRRQVTLFPRAGPPICLVSEGLGQPLGVACAPQGQLLVADAKDNSIKVYQGLK  
ELA

>sp|O14745|NHRF1\_HUMAN Na(+)/H(+) exchange regulatory cofactor NHE-RF1 OS=Homo sapiens  
GN=SLC9A3R1 PE=1 SV=4

MSADAAAGAPLPRCLCLEKGPNGYGFHLHGEKGLGQYIRLVEPGSPAEGAGLLAGDRLV  
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EPPAAAEVQGAGNENEPREADKSHPEQRELPRLCTMKKGPSGYGFNLHSDKSKPGQFIR  
SVDPDSPAASGLRAQDRIVEVNGVCMGEKQHGQDVVSAIRAGGDETCLLVVDRETDEFFK  
KCRVIPSQEHNLGPLVPVFTNGEIQKENSREALAEAALESPPALVRSASSDTSEELNSQ  
DSPPKQDSTAPSTSSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSKKNELFSNL

>sp|Q86XR2|NIBL2\_HUMAN Niban-like protein 2 OS=Homo sapiens GN=FAM129C PE=1 SV=2

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PCYRGQLAASVLRQISRELGPQEPTGSQLLRSKKLPRVREHRGPLTQLRGHPPRWQPIFC  
VLRGDGRLEWFSHKEEYENGHCLGSTALTGYTLLTSQREYLRLLDALCPESLGDHTQEE  
PDSLLEVPVVSFPLFLQHPFRRHLCFSAATREAHAWRLALQGGIRLQGIVLQRSQAPAAAR  
AFLDAVRLYRQHGHFGDDDTLGSDAEVLTAFLMREQLPALRAQTLPLRGAGRARAWA  
WTELLDAVHAAGLAGASAGLCFAQPEKDELLASLEKTIRPDVDQLLRQARVAGRLRTDI  
RGPLESCLRREVDPLPRVVTLLRTVEASLEAVRTLLAQGMDRLSHRLRQSPSGTRLRR  
EVVSFGEMPWDLALMQTCYREAERSRGLGQLAAPFGFLGMQSLVFGAQLAQQLMADAV  
ATFLQLADQCLTTALNCDQAAQLERVRGRVLKFKSDSGLAQRRFIRGWGLCIFIPLFVL  
SQLEPGCKKELPEFEGDVLAVGSQALTTEGIYEDVIRGCLLQRIDQELKKTLGANDVSCT  
LDGCLEVPWEQEGAAPNLNLVSSFLAGRQAFTDFLCLPAKSSANWILAASLLSCSCFRSG  
FHRDSRVFLVQLAEGLSHSLETVSSHVSWSFRPTPRQ

>sp|P14543|NID1\_HUMAN Nidogen-1 OS=Homo sapiens GN=NID1 PE=1 SV=3

MLASSSRIRAAWTRALLPLLAGPVGCLSRQELFPFGPGQGDELEDGDDFVSPAELLS  
GALRFYDRSDIDAVYVTNGIIATSEPPAKESHPLFPPTFGAVAPFLADLDTTDGLGKV  
YYREDLSPSITQRAAECVHRGFPEISFQPSAVVVTWESVAPYQGSPSRDPDQKGRNTFQ  
AVLASSDSSSYAIFLYPEDGLQFHTTFSKKENNQVPAVVAFSQSGVGLWKSNGAYNIFA  
NDRESVENLAKSSNSGQGVWVFEIGSPATNGVVPADVILGTEDGAEYDDEDEDYDLAT  
TRLGLEVDVGTTPFSYKALRRGGADTYSVPSVLSPPRAATERPLGPPTERTSRFQLAVETF  
HQQHPQVIDVDEVEETGVVFSYNTDSRQTCANNRHQCSVHAECRDYATGCCSCVAGYTG  
NGRQCVAEGSPQRVNGKVKGRI FVGSSQVPIVFENTDLHSYVVMNHGRSYTAISTIPETV  
GYSLLPLAPVGGIIGWMFAVEQDGFKNFSITGGEFTRQAEVTFVGHGPNLVIKQRFSGI  
DEHGHLTIDTELEGRVPQIPFGSSVHIEPYTELYHYSTSVITSSSTREYTVTEPERDGAS  
PSRIYTYQWRQTITFQECVHDDSRPALPSTQQLSVDSVFVLYNQEEKILRYALSNSIGPV  
REGSPDALQNPCYIGTHGCDTNAACRPGPRTQFTCECSIGFRGDGRTCYDIDECSEQPSV  
CGSHTICNNHPGTFRCECEVEGYQFSDEGTCVAVVDQRPINYCETGLHNCDIPQRAQCIYT  
GGSSYTCSCLPFGSGDGACQDVDECQPSRCHPD AFCYNTPGSFTCQCKPGYQGDGFRCV  
PGEVEKTRCQHEREHILGAAGATDPQRPIPPGLFVPECDAHGHYAPTQCHGSTGYCWCVD  
RDGREVEGTRTRPGMTTPCLSTVAPP IHQGPAVPTAVIPLPPGTHLLFAQTGKIERLPLE

GNTMRKTEAKAFLHVPKAVIIIGLAFDCVDMVYWTDITEPSIGRASLHGGEPTTIIRQDL  
GSPEGIAVDHLGRNIFWTDSNLDRIEVAKLDGTQRRVLFETDLVNPRGIVTDSVRGNLYW  
TDWNRDNPKIETSYMDGTNRRILVQDDLGLPNGLTFDAFSSQLCWVDAGTNRAECLNPSQ  
PSRRKALEGLQYPFAVTSYGNLYFTDWKMNSVVALDLAISKETDAFQPHKQTRLYGITT  
ALSQCPQGHNYCSVNNGGCTHLCLATPGSRTCRCPDNTLGVDCIEQK

>sp|Q8IY84|NIM1\_HUMAN Serine/threonine-protein kinase NIM1 OS=Homo sapiens GN=NIM1K PE=1 SV=1

MTAVYMNGGGLVNPHYARWDRRDSVESGCQTESSKEGEEGQPRQLTPFEKLTQDMSQDEK  
VVREITLGKRIGFYRIRGEIGSGNFSQVKLGIHSLTKEKVAIKILDKTKLDQKTQRLLSR  
EISSMEKLHHPNIIRLYEVVETLSKLHLVMEYAGGGELFGKISTEGKLEPESKLIFSQI  
VSAVKMHENQIIHRDLKAENVFYTSNTCVKVGDFGFSTVSKKGEMLNTFCGSPPYAAPE  
LFRDEHYIGIYVDI WALGVLLYFMTGTMPFRAETVAKLKKSI LEGTYSVPPHVSEPCHR  
LIRGVLQQIPTERYGIDCIMNDEWMQGVYPPTLEPFQLDPKHLSETSTLKEEENEVKST  
LEHLGITEEHIRNNQGRDARSSITGVYRIILHRVQRKKALESVPVMMLPDPKERDLKKGS  
RVYRGIRHTSKFCSIL

>sp|Q4KMZ8|NKAI1\_HUMAN Sodium/potassium-transporting ATPase subunit beta-1-interacting protein 1 OS=Homo sapiens GN=NKAIN1 PE=2 SV=3

MGKCSGRCTLVAFCCQLVAALERQIFDFLGYQWAPILANFLHIMAVILGIFGTQYRSR  
YLILYAAWLVLWVGWNAFIIICFYLEVQQLSQDRDFIMTFNTSLHRSWWMENGPGCLVTPV  
LNSRLALEDHHVISVTGCLLDYPYIEALSSALQIFLALFGFVFACYVSKVFLEEDSFDF  
IGGFDSYGYQAPQKTSHLQLQPLYTSG

>sp|Q8N8D7|NKAI3\_HUMAN Sodium/potassium-transporting ATPase subunit beta-1-interacting protein 3 OS=Homo sapiens GN=NKAIN3 PE=2 SV=1

MGCCTGRCSLICLCALQLVSALERQIFDFLGFQWAPILGNFLHIIIVILGLFGTIQYRPR  
YIMVYTVWTALWVTWNVFIICFYLEVGGLSKDTDLMTFNISVHRSWWREHGPGCVRRLVP  
PSAHGMMDDYTYVSVTGCIVDFQYLEVIHSAVQILLSLVGFVYACYVISISMEEEDTYSC  
DLQVCKHLFIQMLQIIIE

>sp|Q8IVV8|NKAI4\_HUMAN Sodium/potassium-transporting ATPase subunit beta-1-interacting protein 4 OS=Homo sapiens GN=NKAIN4 PE=2 SV=2

MGSCSGRCALVVLCAFQLVAALERQVDFDLGYQWAPILANFVHIIIVILGLFGTIQYRLR  
YVMVYTLWAAVWVTWNVFIICFYLEVGGLLKDSSELLTFSLSRHRSWWRERWPGCLHEEVP  
AVGLGAPHGQALVSGAGCALEPSYVEALHSCLQILIALLGFVCGCQVVSVFTEEEDSFDF  
IGGFDPFPLYHVNEKPSSLLSKQVYLP

>sp|P78367|NKX32\_HUMAN Homeobox protein Nkx-3.2 OS=Homo sapiens GN=NKX3-2 PE=2 SV=2

MAVRGANTLTFSFIQAILNKKEERGGLAAPEGRPAPGGTAASVAAAPAVCCWRLFGERDA  
GALGGAEDSLLASPAGTRTAAGRTAESPEGWSDSALSSEENESRRRCADARGASGAGLAG  
GSLSLGQPVCALAASKDLEEEAAGRSDEMSASVSGDRSPRTEDDGVGPRGAHVSA LCSG  
AGGGGSGPAGVAEEEEPAAPKPRKKRSRAAFSHAQVFELERRFNHQRYSGLPERADLA  
ASLKL TETQVKIWFQNRRYKTKRRQMAADLLASAPAAKKVAVKVLVRDDQRQYLPGEVLR  
PPSLLPLQPSYYPYCLPGWALSTCAAAAGTQ

>sp|Q9C056|NKX62\_HUMAN Homeobox protein Nkx-6.2 OS=Homo sapiens GN=NKX6-2 PE=2 SV=2

MDTNRPGAFVLSSAPLAALHNMAEMKTS LFPYALQGPAGFKAPALGGLGAQLPLGTPHGI  
SDILGRPVGAAGGGLLGLPRLNGLASSAGVYFGPAAAVARGYPKPLAELPGRPPIFWPG  
VVQGAPWRDPRLAGPAPAGGVLDKDGKKKHSRPTFSGQQIFALEKTFEQTKYLAGPERAR

LAYSLGMTESQVKVWFQNRRTKWRKRHAVEMASAKKKQSDAEKLVGGSDAEDDDDEYNR  
PLDPNSDDEKITRLLKKHKPSNLALVSPCGGGAGDAL

>sp|Q9NVX2|NLE1\_HUMAN Notchless protein homolog 1 OS=Homo sapiens GN=NLE1 PE=1 SV=4

MAAAVPDEAVARDVQRLLVQFQDEGGQLLGSPFDVPVDITPDRLQLVCNALLAQEDPLPL  
AFFVHDAEIVSSLGKTLESQAVETEKVLDIIYQPQAIFRVRAVTRCTSSLEGHSEAVISV  
AFSPTGKYLASGSGDTTVRFWDLSTETPHFTCKGHRHWVLSISWSPDGRKLASGCKNGQI  
LLWDPSTGKQVGRTLAGHSKWITGLSWEPLHANPECRYVASSSKDGSVRIWDTTAGRCER  
ILTGHTSQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVLCTRLQGHGHVNTMALSTDYA  
LRTGAFEPAEASVNPQDLQGSQELKERALSRYNLVRGQGERLVSQSDDFTLFLWSPA  
DKKPLTRMTGHQALINQVLFSPDSRIVASASFDKSIKLWDGRTGKYLASLRGHVAAVYQI  
AWSADSRLLVSGSSDSTLKVWDVKAQKLAMDLPGHAEVYAVDWSPDGQRVASGGKDKCL  
RIWRR

>sp|Q9NZ94|NLGN3\_HUMAN Neuroligin-3 OS=Homo sapiens GN=NLGN3 PE=1 SV=2

MWLRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPT VNTHFGKLRGARVPLPS  
EILGPVDQYLGVPYAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLP  
VWFTANLDIVATYIQEPNEDCLYLNVIYVPTEDVKRISKECARKPNKKICRKGSGGAKKQG  
EDLADNDGDEDEDIRDSGAKPMVYIHGGSYMEGTGNMIDGSILASYGNVIVITLNYRVG  
VLGFLSTGDQAAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTSL  
HHSEGLFQRAIIQSGSALSSWAVNYQPVKYTSLLADKVGCVNLDTVDMVDCLRQKSAKEL  
VEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGEFLNYDIMLGVNQGEGLKFVEGVVDP  
EDGVSGTDFDYSVSFNDLYGYPEGKDTLRETIKFMYTDWADRDNPETRRKTLVALFTD  
HQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTD  
LFPCNFSKNDVMSAVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRD  
QLYLHIGLKPRVRDHYRATKVAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTHSSHITR  
RPNGKTWSTKRPAISPAYSNENAAQGSWNGDQDAGPLLVENPRDYSTELSVTIAGASLLF  
LNLVLAFAALYYRKDKRRQEPLRQSPQRGAGAPELGAAPEEELAALQLGPTHHECEAGPP  
HDTLRLTALPDYTLTLLRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLP  
HSHSTTRV

>sp|P08949|NMB\_HUMAN Neuromedin-B OS=Homo sapiens GN=NMB PE=1 SV=4

MARRAGGARMFGSLLLFALLAAGVAPLSWDLPEPRSRASKIRVHSRGNLWATGHFMGKKS  
LEPSSPSPLGTAPHTSLRDQRLQLSHDLLGILLKKALGVSLSRPAPQIQYRRLLVQILQ  
K

>sp|Q96D46|NMD3\_HUMAN 60S ribosomal export protein NMD3 OS=Homo sapiens GN=NMD3 PE=1 SV=1

MEYMAESTDRSPGHILCCECGVPISPNPANICVACLRSKVDISQGIPKQVSISFCKQCQR  
YFQPPGTWIIQCALESRELLALCLKKIKAPLSKVRLVDAGFVWTEPHSKRLKVKLTIQKEV  
MNGAILQQVFVVDYVVSQMCQDCHRVEAKDFWKAVIQVRQKTLHKKTFYYLEQLILKYG  
MHQNTLRIKEIHDGLDFYYSKQHAQKMVEFLQCTVPCRYKASQRLISQDIHSNTYNYKS  
TFSVEIVPICKDNVCLSPKLAQSLGNMNQICVCIRVTSIHLIDPNTLQVADIDGSTFW  
SHPFNSLCHPKQLEEFIVMECSIVQDIKRAAGAGMISKKHTLGEVWVQKTSEMNTDKQYF  
CRTHLGHLNPGDLVLGFDLANCNLNDEHVNMNSDRVPDVVLIKKSYDRTKRQRRRNWK  
LKELARERENMDTDDERQYQDFLEDLEDEAIRKNVNIYRDSAIPVESDDEGAPRISL  
AEMLEDLHISQDATGEEGASMLT

>sp|Q9HAN9|NMNA1\_HUMAN Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1  
OS=Homo sapiens GN=NMNAT1 PE=1 SV=1

MENSEKTEVLLACGSFNPITNMHLRLFELAKDYMNGTGRTVVKGIISPVGDAYKKKGL  
IPAYHRVIMAELATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDHQQNSPTL  
ERPGRKRKWTETQDSSQKSLEPKTKAVPKVKLLCGADLLESFAVPLWKSSEDITQIVAN  
YGLICVTRAGNDAQKFYIESDLWKHRSNIHVNEWIANDISSTKIRRALLRGQSIRYLV  
PDLVQEYIEKHNLYSSESEDRNAGVILAPLQRNTAEAKT

>sp|Q9HBL8|NMRL1\_HUMAN NmrA-like family domain-containing protein 1 OS=Homo sapiens  
GN=NMRL1 PE=1 SV=1

MVDKKLVVVFGGTGAQGGSVARTLLEDGTFKVRVVTNRPRKKA AKELRLQGAEEVVGDDQD  
DQVIMELALNGAYATFIVTNYWESCSQEVEVKQGKLLADLARRLGLHYVVYSGLENIKKL  
TAGRLAAAHFDGKGEVEEYFRDIGVPMTSVRLPCYFENLLSHFLPQKAPDGKSYLLSLPT  
GDVPMDGMSVSDLGPVVL SLLKMPEKYVGQNI GLSTCRHTAEYAALLTKHTRKVVHDAK  
MTPEDYEKLGFGARDLANMFRFYALRPDRDIELTLRLNPKALTLDQWLEQHKGDFNLL

>sp|Q9ULX3|NOB1\_HUMAN RNA-binding protein NOB1 OS=Homo sapiens GN=NOB1 PE=1 SV=1

MAPVEHVADAGAFRLHAALQDIGKNIYTIREVVT EIRDKATRRRLAVLPYELRFKEPLP  
EYVRLVTEFSKKTGDYPSLSATDIQVLALTYQLEAEFVGVSHLKQEPQKVKVSSSIQHPE  
TPLHISGFHLPPYKPKPPQETEKGHSACEPENLEFSSFMFWRNPLPNIDHELQELLIDRGE  
DVPSEEEEEENGFE DRKDDSDDDGGGWITPSNIKIQEQELEQCDVPEDVRVGCLTTDFA  
MQNVLLQMGLHVLAVNGMLIREARSYILRCHGCFKTTSDMSRVFCSHCGNKTLKKVSVTV  
SDDGTLHMHFSRNPVKVLPNPRGLRYS LPTPKGGKYA INPHLTEDQRFPLRLSQKARQKTN  
VFAPDYIAGVSPFVENDISSRSATLQVRDSTLGAGRRRLNPNASRKKFVKKR

>sp|Q9BSC4|NOL10\_HUMAN Nucleolar protein 10 OS=Homo sapiens GN=NOL10 PE=1 SV=1

MQVSSLNEVKIYSLSCGKSLPEWLS DRKKRALQKKD VDVRRRIELIQDFEMPTVCTTIKV  
SKDGQYILATGTYKPRVRCYD TYQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRIE  
FHSQSGFYKTRIPKFRDFS YHYPSCDLYFVGASSEVYRLNLEQGRYLNPLQTDAEENN  
VCDINSVHGLFATGTIEGRVECWDPRTRNRVGLLDCALNSVTADSEINSLPTISALKFNG  
ALTMAGVTTTGQVLLYDLRSDKPLL VKDHQYGLPIKSVHFQDSL DILSADSRIVKMWNK  
NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIYYIPVLGPAPRWCSFLDNLTEE  
LEENPESTVYDDYKFVTKKDLENLGLTHLIGSPFLRAYMHGFFMDIRLYHKVKLMVNPFA  
YEEYRKDKIRQKIEETRAQRVQLKKLPKVNKELALKLIEEEEKQKSTWKKKVKSLPNIL  
TDRFKVMFENPDFQVDEESEEFRLNPLVSKISEKRKKKLRLLEQQELREKEEEEPEG  
KPSDAESSESSDDEKAWVEVRKQRRLQ QEEKVKRQERLKEDQQT VLPQFY EIKAGEE  
FRSFKDSATKQKLMNKTLEDRLKIEAKNGT LSVSDTTV GSKQLTFTLKRSEQQKKQAE  
KLHRQERKRLRRSAGHLKSRHKRGRSFH

>sp|Q9UGY1|NOL12\_HUMAN Nucleolar protein 12 OS=Homo sapiens GN=NOL12 PE=1 SV=1

MGRNKKKKRDGDDRRPRLVLSFDEEKRREYLTGFHKR KVERKKA IEEIKQRLKEEQRL  
REERHQEY LKMLAEREEALEEDELDR LVTAKTESVQYDHPNHTVTVTTISDL DLSGARL  
LGLTPPEGGAGDRSEEEASSTEKPTKALPRKSRDPLLSQRISSLTASLHAHSRKKVKRKH  
PRRAQDSKKPPRAPRTSKAQRRRLTGKARHSGE

>sp|Q76FK4|NOL8\_HUMAN Nucleolar protein 8 OS=Homo sapiens GN=NOL8 PE=1 SV=1

MKVNRETKRLYVGGLSQDIS EADLQNQFSRFGEVSDVEIITRKDDQGNPQKV FAYINISV  
AEADLKKCMSVLNKTWKGGTLQIQLAKESFLHRLAQEREA AKAKEESTTG NANLLEKT  
GGVDFHMAVPGTEVPGHKNWVSKFGRVLPVLHLKNQHKKRIKYDP SKYCHNLKKIGE  
DFSNTIPISSLTWELEGGNDPMSKKRRGEFSDFHGP PKKIIVQKDESSTGSLAMSTRPR  
RVIERPPLTQQQAAQKRTCD SITPSKSSPVVSDTQKLKNLPFKTSGLETAKKRNSISDD



DTDSEDELMMIAKEENLQRTTQPSINESESDPFVVRDDFKSGVHKLHSLIGLGIKNRV  
SCHDSDDDIMRNDREYDSGDTDEIIAMKKNVAKVKNSTEFQMEKSTKKTsfKNRENCEL  
SDHCiKLQKRKSNVESALSHGLKSLNRKSPSHSSSEDADSASELADSEGGEYNNAMMKN  
CLRVNLTLADLEQLAGSDLKVPNEDTKSDGPETTTQCKFDRGSKSPKPTPTGLRRGRQCIR  
PAEIVASLLEGEENTCGKQKPKENNLKPKFQAFKGVGCLYEKESMKKSLKDSVASNNKDQ  
NSMKHEDPSIIISMEDGSPYVNGSLGEVTPCQHAKKANGPNYIQPQKRQTTFESQDRKAVS  
PSSSEKRSKNPISRPLEGKKSLSLAKTHNIGFDKDSCHSTTKTEASQEERSDSSGLTSL  
KKSPKVSSKDTREIKTDFSLISISNSSDVSAKDHAEDNEKRLAALEARQKAKEVQKKLVH  
NALANLDGHPEDKPTHTIIFGSDSECETEETSTQEASHPGEEWVKESMGKTSGLFDSSDD  
DESDSEDDSNRFKIKPQFEGRAGQKMLDLQSHFGTDDRFRMDSRFLTDSEEEQEEVNEK  
KTAEEEEELAEKKKALNVVQSVLQINLSNSTNRGSVAKKFKDIIHYDPTKQDHATYERK  
RDDKPKESAKRKKKREEAEKLPEVSKEMYNIAMDLKEIFQTTKYTSEKEEGTPWNEDC  
GKEKPEEIQDPAALTSDAEQPSGFTFSFFDSDTKDIKEETYRVETVKGKIVWQEDPRLQ  
DSSSEEDVTEETHRNSSPGEASLLEKETTRFFFFSKNDERLQGSDFWRGVGSNMSRN  
SWEARTTNLRMDCRKKHKDAKRKMCPK

>sp|Q9NPE3|NOP10\_HUMAN H/ACA ribonucleoprotein complex subunit 3 OS=Homo sapiens GN=NOP10  
PE=1 SV=1

MFLQYYLNEQGDRVYTLKKFDPMGQQTCSAHPARFSPDDKYSRHRITIKRfKVLMTQQP  
RPVL

>sp|Q8NFA2|NOXO1\_HUMAN NADPH oxidase organizer 1 OS=Homo sapiens GN=NOXO1 PE=1 SV=1

MAGPRYPVSVQGAALVQIKRLQTFAFSVRWSDGSDTFVRRSWDEFRLKKTLKETFPVEA  
GLRRSDRVLPKLLGQASLDAPLLGRVGRTSRGLARLQLETYSRRLATAERVARSPIT  
TGFFAPQPLDLEPALPPGSRVILPTPEEQPLSRAAGRLSIHSLEAQLRCLQPCTQDTR  
DRPFQAQAQESLDVLLRHPSGWWLVENEDRQTAWFPAPYLEEAAPGGREGGSLGSSGP  
QFCASRAYESSRADELSVPAGARVRVLETSDRGWWLCRYGDRAGLLPAVLLRPEGLGALL  
SGTGFRGGDDPAGEARGFPEPSQATAPPPTVPTRPSPGAIQSRCTVTRRALERRPRRQG  
RPRGCVDSVPHTTEQ

>sp|P61580|NP10\_HUMAN Endogenous retrovirus group K member 10 Np9 protein OS=Homo sapiens  
GN=ERVK-10 PE=1 SV=1

MNPSEMQRKGPPRRWCLQVYPTAPKRQRPSRTGHDDGGFVEKKRGKCEKQERSNCYCV  
CVERSRHRRLHFVMC

>sp|P55209|NP1L1\_HUMAN Nucleosome assembly protein 1-like 1 OS=Homo sapiens GN=NAP1L1  
PE=1 SV=1

MADIDNKEQSELDQDLDDVEEVEEEETGEETKLKARQLTVQMMQNPQILAALQERLDGLV  
ETPTGYIESLPRVVKRRVNALKNLQVKCAQIEAKFYEEVHDLERKYAVLYQPLFDKRFEI  
INAIYEPTEECEWKPDDEDEISEELKEKAKIEDEKKDEEKEDPKGIPEFWLTVFKNVDL  
LSDMVQEHDEPILKHLKDIKVKFSDAGQPMFVLEFHFEPNEYFTNEVLTKTYMRSEPD  
DSDPFSFDGPEIMGCTGCQIDWKKGKNVTLTKIKKKQKHKGRTVTVTKTVSNDFFNF  
FAPPEVPESGDLDDAEAILAADFEIGHFLRERIIPRSVLYFTGEAIEDDDDDYDEEGEE  
ADEEGEEEGDEENDPDYDPKKDQNPAECKQQ

>sp|P61581|NP24\_HUMAN Endogenous retrovirus group K member 24 Np9 protein OS=Homo sapiens  
GN=ERVK-24 PE=1 SV=1

MNPSEMQRKGPPRRWCLQVYPTAPKRQRPSRTGHDDGGFVEKKRGKCEKQERSDCYCV  
CVERSRHRRLHFVMC

>sp|P61583|NP5\_HUMAN Endogenous retrovirus group K member 5 Np9 protein OS=Homo sapiens  
GN=ERVK-5 PE=3 SV=1

MNPSEMQRKGPPQRWCLQVYPTAPKRQRPSRTGHDDGGFVEKKRGKCGEKQERSDCYCV  
CVERSRHRRHLHFVLY

>sp|O60287|NPA1P\_HUMAN Nucleolar pre-ribosomal-associated protein 1 OS=Homo sapiens  
GN=URB1 PE=1 SV=4

MGVPRKASGGQDGAASSAGAAKRARKEELTGVRFKAQLKDPQGGPGLEAFVSAKKLP  
REDVYDVVEGYIKISVECVEIFQLLSGEKRPESETMLIFQVFEAILLRTASDLSHFHVVG  
TNIVKKLMNNHMKLICESLYASGYRLARACLSLMTAMVTQGPEAARDVCSHFDLNKKTLY  
TLVTKRDSKGVYDVRQAYVQFALSFLIAGDDSTIVQVLEVKEFIPCIFSSGIKEDRISTI  
NILLSTLTKTVVHNKNITKTQKVRFFTQQLLNHIASLYNNGITDVNPENVKVSAAEAGK  
TMVRELVHNFLMDLCCSLKHGINFYDASLGTGFRGGNLTLHFLLGLKTAADDDLVLADLV  
VNILKVCDDLNNKYFKEVTFSEFIPRAKSTWLNINIKLLNKIYEAQPEISRAFQTREFIPLP  
RLLAMVMVTTVPLVCNKSMTQALNLDSTSVRHTALSLSVILKRALKTVDHCLNKEVWQ  
ESGVYTAVMMEEFVQLFREALSILPDLNTVWVWQSLKKQETKQDDKKGQKRS DGPPAA  
CDAHQCDDAETILLKAVLLQVICLYQKVVPHVVMQYNFDFSKLLKGVISEQGLREEVPP  
LQHMLKVALELPASKFLWLKAQEGPDAEII GERSVFYLLMKMFVTSSHLQLKSLTKLL  
IMKILRDTGVFEHTWKELELWLEHLENTMEEDKETVIQFLERILLTLVANPYSYTDKASD  
FVQEASMLQATMTKQEADDMSIPISHIDDVLDMDVLEGESEGLDEEIGFTLSEDMILLT  
FPFSAVPPAALEARNKLLLTGTNEAAENVVYTLTAVLTDLLHTQRDPLALCLLLQAYDKL  
EPPCLVPCQQLSRFNRYSLWIPEQAREAWLLQAQGSPPALPLASSFTALLQAAYES  
QALRDEHTQVQLQATMPHLSMQQVLLAAKQVLLYLSTVENFGQLGRSVGPPLLQLFLDL  
LRLRVHCEQLDAQNQRC EAARAEADFLDMESVASLELANDQTLEEVLVAILRHPTLE  
GWFLALEQQALPPHTLSPVLVKKLATHFSAGVLQLLAASAPILQNIGQLGLLARYSEAIT  
QSVLKELQNR RAPATSPPKTPPQLEALQELHPYMEGAQLREVTALLSLPETHLVTQQP  
TKSPGKERHNLGKTLVQLLTCSPQDQLQSGELLWSSEYVRGLGALLPTLAVDELDTVL  
LHTLQRDPVLAPVAGADLLDYCLARRTQAALSIAALLQESCTHLLWFEQWCLQAGPGLG  
LQGDLDLDFLPIHVYLQCRTRSHFTRPAGVSSAIPVLRKTLWRQLQSRLSTDSPPASG  
LYQEILAQLVPFARAKDLSVLMDRPLSLHTPSSHKRWIVADSI SAAL EGS AEELCAWRR  
TLLESCVKWLIVSFGGQQDDNTQNQEKEMLLRLNALLHALNEVDPGDWQKFVKGLKF  
RYQDHTFLKMLLTAVQLLYSPESSVRTKLIQLPVVYVMLMQHSLFLPTLLTSDGEESPDS  
QVKEALVDLMLTVVEMCPSVCESSHFAVLLGAYGATLSVLDQKILLLLRAYEQNKLSLIN  
FRVLLWGPAAVEHHKTCRSLGRSLWQQPSVG DILRLDRDRMMQTILHFPQNRRLPPED  
TQELIFKDKSRVDLDGLYDPCFLLQLFSELTRPEFVVDCKRFLDSNALGLTVTALSSYDP  
QMR AIAYHVLAAYYSHLEGARFQEQSLLYLLDVVRNGIRTQDMRLTFTLALFIAKAALQ  
ILKPEEHMYLKVSNFLLSHEYLNMDKVPGFYQFFYSSDFEQKTEQKWVFGVLRQGIRDKQ  
CYELCARRGIFHIILSFFHSPLCDEAAQNWILEILQNAAQVAR SAYEIRDYSLLTWILH  
ILES KFLETPLLSNVISLLHTLWVTNLGDKAVEWESQRLCQPSSQEPAKRLALHLVNEFL  
YVLIVLMKHLRPTLAPVQLTNFFGTLD SVLRATVIAFRDMNRFTVNETVLSTKDVLV  
LLHKWSLIERDLKIQEDLRAAIEKAQARELMKMLKDKNKPVMPARAKGPRGRKRRPGAE  
EMADPELMASTLETCKGLRSILTYWRPVIPGPDPTQEPVDSASPESDAPGPVYAAASLA  
VSWVLSVAEHLPSRAEAAGLIGWLKSHILPHPVVVADLLKDSAVRSSIFRLYSRLCGAE  
GLAGPVQEVA CLFNTVMLQLVAAQGRAGSPFHPAMEALSSSLSEKDEATQASAAFLVSL  
YIKDIWLGAQRPD TLLTHVRMVCEAADAPSSEEEAIVVLCKDAASAASDA

>sp|Q9H841|NPAL2\_HUMAN NIPA-like protein 2 OS=Homo sapiens GN=NIPAL2 PE=2 SV=1

MAAVAPAGPGDSASAALDELSNFTYGAPGAGNGSLSGDWYRRNQIHLFGVLLAILGNLV  
ISISLNIQKYSHLQLAQQEHPRPYFKSVLWWGGVLLMAVGETGNFAAYGFAPITLIAPLG  
CVSVTGSATISVTLKDNLRASDLLGTTLAFAGTYLLVNFAPNITQAISARTVQYYLVGW  
QFLIYVILEILIFCILLYFYKRKGMKHMVILLTLVAILASLTVISVKAVSGMITFSVMDK  
MQLTYPIFYIMFIIMIASCVFQVKFLNQATKLYNTTTTVPVNHIFFTISAIAGIIFYQE  
FLGAPFLTVMFYILFGCFLSFLGVFLVTRNREKEHLQQSYIDFGNIPDTPERKAWRETNV  
GQNTTRFT

>sp|Q6P499|NPAL3\_HUMAN NIPA-like protein 3 OS=Homo sapiens GN=NIPAL3 PE=1 SV=1

MDGSHSAALKLQQLPPTSSSSAVSEASFSYKENLIGALLAIFGHLVVSIALNLQKYCHIR  
LAGSKDPRAYFKTKTWLGLFLMLLGELGVFASYAFAPLSLIVPLSAVSIVASAIIGIIF  
IKEKWKPKDFLRRYVLSFVGCGLAVVGTYLLVTFAPNSHEKMTGENVTRHLVSWPFLLYM  
LVEIILFCLLLFYKEKNANNIVVILLVALLGSMTVVTVKAVAGMLVLSIQGNLQLDYP  
IFYVMFVCMVATAVYQAAFLSQASQMYDSSLIASVGYILSTTIAITAGAI FYLDFIGEDV  
LHICMFALGCLIAFLGVFLITRNRKKPIPFEPYISMDAMPGMQNMHDKGMTVQPELKASF  
SYGALENNDNISEIYAPATLPVMQEEHGSRSASGVPPYRVLEHTKKE

>sp|Q99742|NPAS1\_HUMAN Neuronal PAS domain-containing protein 1 OS=Homo sapiens GN=NPAS1  
PE=2 SV=2

MAAPYPGSGGGSEVKCVGGRGASVPWDFLPGLMVKAPSGPCLQAQRKEKSRNAARRRGK  
ENLEFFELAKLLPLPGAISSQLDKASIVRLSVTYLRLRRFAALGAPPWGLRAAGPPAGLA  
PGRRGPAALVSEVFQHLGGHILQSLDGFVFALNQEGKFLYISETVSIYLGSLQVEMTGS  
SVFDYIHPGDHSEVLEQLGLRTPTPGPPTPPSVSSSSSSSSSLADTPEIEASLTKVPPSS  
LVQERSFFVRMKSTLTKRGLHVKASGYKVIHVTGRLRAHALGLVALGHTLPAPLAELPL  
HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHGQDATRIRQSHVDLLDK  
GQVMTGYRRLQRAGGFVWLQSVATVAGSGKSPGEHHVLWVSHVLSQAEGGQTPLDAFQL  
PASVACEEASSPGPEPTEPEPTEGKQAAPAENEAPQTQ GKRIKVEPGPRETKGSEDSGD  
EDPSSH PATPRPEFTSVIRAGVLKQDPVRPWGLAPPGDPPPTLLHAGFLPPVVRGLCTPG  
TIRYGAELGLVYPHLQRLGPGPALPEAFYPPLGLPYPGPAGTRLPRKGD

>sp|Q99743|NPAS2\_HUMAN Neuronal PAS domain-containing protein 2 OS=Homo sapiens GN=NPAS2  
PE=1 SV=3

MDEDEKDRAKRASRNKSEKKRRDQFNVLIKELSSMLPGNTRKMDKTTVLEKVIIGFLQKH  
EVSAQTEICDIQDWKPSFLSNEEFTQLMLEALDGFIIAVTTDGSIIYVSDSITPLLGH  
PSDVMQNLNLFPEQEHESEVYKILSSHMLVTDSPSPEYLKSDSDLEFYCHLLRGS LNPK  
EFPTYEYIKFVGNFRSYNNVPSPCNGFDNTLSRPCRVP LKGEVCFIATVRLATPQFLKE  
MCIVDEPLEEFTSRHSLEWKFLFLDHRAPPIIGYLPFEVLGTSGYDYHIDDELLARCH  
QHLMQFGKGKSCCYRFLTKGQQWIWLQTHYYITYHQWNSKPEFIVCTHSVVS YADVRVER  
RQELALEDPPEALHSSALKDKGSSLEPRQHFN TLDVGASGLNTSHSPSASSRSSHKSSH  
TAMSEPTSTPTKLMAEASTPALPRSATLPQELPVPGLSQAATMPAPLPS PSSCDLTQQLL  
PQTVLQSTPAPMAQFSAQFSMFQTIKDQLEQRTRILQANIRWQQEELHKIQEQLCLVQDS  
NVQMFLQQPAVSLSFSSQRP EAQQQLQQRSAAVTQPQLGAGPQLPGQISSAQVTSQHLL  
RESSVISTQGPKPMRSSQLMQSSGRSGSSLVSPFSSATAALPPSLNLTPASTSQDASQC  
QPSPDFSHDRQLRLLSQPIQPMMPGSCDARQPSEVSRTGRQVKYAQSQT VFNPDHPA  
NSSSAPMPVLLMGQAVLHPSFPASQPSPLQPAQARQQPPQH YLQVQAPTS LHSEQQDSLL  
LSTYSQQPGTLGYPPQPPPAQPQLRPPRRVSSLS ESSLGQQPPR

>sp|Q14207|NPAT\_HUMAN Protein NPAT OS=Homo sapiens GN=NPAT PE=1 SV=3

MLLPDVARLVGLYQQENLISTCQTFILESSDLKEYAEHCTDEGFIPACLLSLFGKNLT  
TILNEYVAMKTKETSNNVPAIMSSLWKKLDHTLSQIRSMQSSPRFAGSQRARTRTGIAEI  
KRQRKLASQTAPASAELLTLPYLSGQFTTPSTGTQVTRPSGQISDPSRSYFVVVNHSQS  
QDTVTTGEALNVIPGAQEKKAHASLMSPGRRKSESQRKSTTLSGPHSTIRNFQDPNAFAV  
EKQMVIEENAREKILSNKSLQEKLAEININKFLTSDNNIAQVPKQTDNNPTEPETSIDEFLG  
LPSEIHMSEEAIQDILEQTESDPAFQALFDLFDYGKTKNNKNISQSISSQPMESNPSIVL  
ADETNLAVKGSFETEESDGQSGQPAFCTSYQNDPLNALKNSNNHDVLRQEDQENFSQIS  
TSIQKKAFTAVPTEQKCDIDITFESVPLNDFNQRGNSNAECNPHCAELYTNQMSTETE  
MAIGIEKNSLSSNPSESQQLQPDQPDIPITSFVSLGCEANNENLILSGKSSQLLSQDTSL  
TGKPSKKSQFCENSNDTVKLIKINFHGSKSSDSSEVHKSKEINVLEPVMSQLSNCQDNSC  
LQSEILPVSVESHLNVSGQVEIHLGDSLSTKQPSNDSASVELNHTENEAQASKSENSQ  
EPSSSVKEENTIFLSLGGNANCEKVALTPPEGTPVENSHSLPPESVCSSVGDShPESQNT  
DDKPSNNSAEIDASNIVSLKVIISDDPFVSSDTELTSAVSSINGENLPTIILSSPTKSP  
TKNAELVKCLSSEETVGAVVYAEVGDASMEQSLTTFKSEDSAVNNTQNEGIAFSANVT  
PCVSKDGGYIQLMPATSTAFGNSNNILIATCVTDPTALGTSVSQSNVVLPGNSAPMTAQ  
PLPPQLQTPPRSNSVFVAVNQAVSPNFSQGSIIIASPVQPVQLQGMVGMIPVSVVGQNGNN  
FSTPPRQVLHMLPTAPVCNRSIPQFPVPPKSQKAQGLRNKPCIGKQVNNLVDSSGHSVGC  
HAQKTEVSDKSIATDLGKKSEETTVPFPEESIVPAAKPCHRRVLCFDSTTAPVANTQGP  
HKMVSQNKERNAVSPNLDSPNVSSTLKPPSNNAIKREKEKPLPKILSKSESAISRHTT  
IRETQSEKKVSPTEIVLESFHKATANKENELCSDVERQKNPENSKLSIGQQNGGLRSEKS  
IASLQEMTKKQGTSSNNKNVLSVGTAVKDLKQEQTKSASSLITTEMLQDIQRHSSVSRLA  
DSSDLVPVPTPGSGAGEKHKEEPIDIKAPSSRRFSEDSSTSKVMVPPVTPDLPACSPAS  
ETGSENSVNMAAHTLMILSRAAISRTTSATPLKDNTQQFRASSRSTTKRKIEELDERER  
NSRPSSKNLTNSSIPMKKKKIKKKKLPSFPAGMDVDKFLLSLHYDE

>sp|O15118|NPC1\_HUMAN Niemann-Pick C1 protein OS=Homo sapiens GN=NPC1 PE=1 SV=2

MTARGLALGLLLLLCPAQVFSQSCVWYGECGIAYGDKRYNCEYSGPPKPLPKDGYDLVQ  
ELCPGFFFFGNVSLCCDVRQLQTLKDNLQLPLQLSRCPSCFYNLLNLFCELTCSPRQSQF  
LNVTTATEDYVDPVTNQTKTNKELQYYVGQSFANAMYNACRDVEAPSSNDKALGLLCGKD  
ADACNATNWIEYMFNKDNGQAPFTITPVFSDFPVHGMEPMNNATKGCDESVDEVTA PCSC  
QDCSIVCGPKPQPPPPAPWTILGLDAMYVIMWITYMAFLLVFFGAFFAVWCYRKRYFVS  
EYTPIDSNIAFSVNASDKGEASCCDPVSAAFEGCLRRLFTRWGSFCVRNPGCVIFFSLVF  
ITACSSGLVFVRVTNPVDLWSAPSSQARLEKEYFDQHFGPFPRTEQLIIRAPLTDKHIY  
QPYPGADVPFGPPLDIQILHQVLDLQIAIENITASYNETVTLQDICLAPLSPYNTNCT  
ILSVLNYFQNSHSLVDHKKGDDFFVYADYHTHFLYCVRAPASLNDTSLHDPCLGTFGGP  
VFPWLVLGGYDDQNYNNATALVITFPVNNYYNDEKLQRAQAWKEKFINFVKYKNPNLT  
ISFTAERSIEDELNRESDSVFTVVISYAIMFLYISLALGHMKSCRLLVDSKVSGLIAG  
ILIVLSSVACSLGVFSYIGLPLTLIVIEVIPFLVLAVGVDNIFILVQAYQRDERLQGETL  
DQQLGRVLGEVAPSMFLSSFSETVAFFLGALSVMPAVHTFSLFAGLAVFIDFLLQITCFV  
SLLGLDIKRQEKNRDLIFCCVRGAEDGTSVQASESCLFRFFKNYSPLLLKDWMRPIVIA  
IFVGVLFSFSIAVLNKVDIGLDQSLSMPDDSYMVDYFKSISQYLHAGPPVYFVLEEGHDYT  
SSKGQNMVCGMGCNNDLSLVQIFNAAQLDNYTRIGFAPSSWIDDYFDWVKPQSSCCRVD  
NITDQFCNASVDPACVRCRPLTPEGKQRPQGGDFMRFLPMFLSDNPNPKCGKGGAAYS  
SAVNILLGHGTRVGATYFMTYHTVLQTSADFIDALKKARLIASNVTETMGINGSAYRVFP

YSVFYVFYEQYLTIIDDTIFNLGVSLGAIFLVTMVLLGCELWSAVIMCATIAMVLVNMFG  
VMWLWGISLNAVSLVNLVMSCGISVEFCSHITRAFTVSMKGSVERAEALAHMGSSVFS  
GITLTKFGGIVLAFQSKIFQIFYFRMYLAMVLLGATHGLIFLPVLLSYIGPSVKNKAKS  
CATEERYKGTERRERLLNF

>sp|Q9UHC9|NPCL1\_HUMAN Niemann-Pick C1-like protein 1 OS=Homo sapiens GN=NPCL1 PE=1 SV=2

MAEAGLRGWLLWALLRLAQSEPYTTIHQPGYCAFYDECCKNPGLSGSLMTLSNVSCLSN  
TPARKITGDHLILLQKICPRLYTGPNTQACCSAKQLVSLEASLSITKALLTRCPACSDNF  
VNLHCHNTCSPNQSLFINVTRVAQLGAGQLPAVVAYEAFYQHSFAEQSYDSCSRVRPAA  
ATLAVGTMCVGYGSALCNAQRWLNFGQDGTGNGLAPLDITFHLLEPGQAVGSGIQPLNEGV  
ARCNESQGGDVATCSCQDCAASCPAIAARPQALDSTFYLGQMPGSLVLIILCSVFAVVTI  
LLVGFRVAPARDKSKMVDPKKGTSLSDKLSFSTHTLLGQFFQGWGTWVASWPLTILVLSV  
IPVVALAAGLVFTELTTDPVELWSAPNSQARSEKAFHDQHFQPFRTNQVILTAPNRSSY  
RYDSLILGPKNFSGILDLDLLELELELQERLRHLQVWSPEAQRNISLQDICYAPLNPNT  
SLYDCCINSLQYFQNNRTLLLTANQTLMGQTSQVDWKDHFYCANAPLTFKDGTLAL  
SCMADYGAPVFPFLAIGGYKGKDYSEAEALIMTFSLNYPAGDPRLAQAKLWEEAFLEEM  
RAFQRRMAGMFQVTFMAERSLEDEINRTTAEDLPIFATSYIVIFLYISLALGSYSSWSRV  
MVDSKATLGLGGVAVVLGAVMAAMGFFSYLGISSLVILQVVPFLVLSVGADNIFIFVLE  
YQRLPRRPGEPREVHIGRALGRVAPSMMLCSLSEAICFFLGALTPMPAVRTFALTSGLAV  
ILDFLQMSAFVALLSLDSKRQEASRLDVCCCVKPELPPPGQGEGLLLGFFQKAYAPFL  
LHWITRGVLLLLFLALFGVSLYSMCHISVGLDQELALPKDSYLLDYFLFLNRYFEVGAPV  
YFVTTLGYNFSSEAGMNAICSSAGCNFSFTQKIYATEFPEQSYLAIPASSWDDFIDW  
LTPSSCCRLYISGPNKDKFCPSTVNSLNCLKNCMSITMGSVRPSVEQFHKYLPWFLNDRP  
NIKCPKGGAAAYSTSVNLTSQGQVLDTVAILSPRLEYSGTISAHCNLYLLDSTSRFMAYH  
KPLKNSQDYTEALRAARELAANITADLRKVPGTDAFEVFPYTTITNVFYEQYLTIPEGL  
FMLSLCLVPTFAVSCLLLGLDLRSGLLNLSIVMILVDTVGFMALWGISYNAVSLINLVS  
AVGMSVEFVSHITRSFAISTKPTWLERAKEATISMGSVAVFAGVAMTNLPGLVLGLAKAQ  
LIQIFFFRLLNLLITLLGLLHGLVFLPVILSYVGPVNPALALEQKRAEEAVALVMVASCP  
NHPSRVSTADNIYVNSFEFSIKGAGAI SNFLPNNGRQF

>sp|O15259|NPHP1\_HUMAN Nephrocystin-1 OS=Homo sapiens GN=NPHP1 PE=1 SV=1

MLARRQRDPLQALRRRNQELKQQVDSLLSESQLEALEPNKRQHIYQRCIQLKQAIDENK  
NALQKLSKADESAPVANYNQRKEEHTLLDKLTQQLQGLAVTISRENITEVGAPTEEEEE  
SESEDSGSGEEEDAEKEEESHKWTGEEYIAVGDFTAQQVGDLTFKKGEILL  
VIEKKPDGWWIAKDAKNEGLVPRTYLEPYSEEEEGQESSEEGSEEDVEAVDETADGAEV  
KQRTDPHWSAVQKAISEAGIFCLVNHVSFCYLIVLMRNRMETVEDTNGSETGFRAWNVQS  
RGRIFLVSKPVLQINTVDVLTMTGAIPAGFRPSTLSQLLEEGNQFRANYFLQPELMPSQL  
AFRDLMWDATEGTIRSRSRISLILTLWSCKMIPLPGMSIQVLSRHVRLCLFDGNKVL SN  
IHTVRATWQPKPKPTWTFSPQVTRILPCLLDGDCFIRSNSASPDLGILFELGISYIRNST  
GERGELSCGWVFLKLFDA SGVPIPAKTYELFLNGGTPYEKGIEVDPSISRRAHGSVFYQI  
MTMRRQPQLLVKLRLSNRRSRNVLSLLPETLIGNMCSIHLLIFYRQILGDVLLKDRMSLQ  
STDLSHPMLATFPMLEQPDVMDALRSSWAGKESTLKRSEKRDKEFLKSTFLLVYHDCV  
LPLLHSTRLPFRWAEETETARWKVITDFLKQNKQENQALQALLSPDGVHEPFDLSEQT  
YDFLGEMRKNV

>sp|Q7Z494|NPHP3\_HUMAN Nephrocystin-3 OS=Homo sapiens GN=NPHP3 PE=1 SV=1

MGTASSLVSPAGGEVIEDTYGAGGGEACEIPVEVKPKARLLRNSFRRGAGAAAGAGPGSL

PRGVGAGLLGASFKSTGSSVPELEYAAAEYERLRKEYEIFRVSKNQELLSMGRREAKLD  
TENKRLRAELQALQKTYQKILREKESALEAKYQAMERAATFEHDRDKVKRQFKIFRETKE  
NEIQDLLRAKRELESKLQRLQAQGIQVFDPGESDSDNCTDVTAAQTQCEYWTGGALGSE  
PSIGSMIQLQQSFRGPEFAHSSIDVEGPFANVNRDDWDIAVASLLQVTPLFSLWSNTV  
RCYLIYTDETPEMDLFLKDYSPLKRMCMETMGYFFHAVYFPIDVENQYLTVRKWEIEKS  
SLVILFIHLTLPSLLEDCEEAFKNPEGKPRLIHFRLEDGKVSSDSVQQLIDQVSNLNK  
TSKAKIIDHSGDPAEGVYKTYICVEKIIKQDILGFENTDLETKDLGSEDSIPEEDDFGDV  
LWDIHDEQEOMETFQQASNSAHELGFEEKYYQRLNDLVAAPAPIPPLLVSGGPGSGKSLLL  
SKWIIQLQQKNSPNTLILSHFVGRPMSTSSSESLIIKRLTLKLMQHSWSVSALTDPAKLL  
EEFPRWLEKLSARHQGSIIIVIDSIDQVQVEKHMKWLIDPLPVNVRVIVSVNVETCPPA  
WRLWPTLHLDPLSPDKAKSIIIAECHSVDIKLSKEQEKLERHCRSATTCNALYVTLFGK  
MIARAGRAGNLDKILHQCFCQDLSLYRLVLHSIRESMANDVDKELMKQILCLVNVSHN  
GVSESELMELYPEMSWTFLTSLIHSLYKMCLLTYGCGLLRQHLQAWETVRLEYLEGPTV  
TSSYRQKLINYFTQLSQDRVTWRSADLPWLFQQGSGKQLHDCLLNLFVSQNLKYRGH  
FAELLSYWQFVGKDSAMATEYFDSLKQYEKNCEGEDNMSCLADLYETLGRFLKDLGLLS  
QAIVPLQRSLEIRETALDPDHPVAQSLHQLASVYVQWKKFGNAEQLYKQALEISENAYG  
ADHPYTARELEALATLYQKQNKYEQAEHFRKKSFKIHQKAIKKKGNYLGFALLRRRALQL  
EELTLGKDTDPDNARTLNELGVLYLQNNLETADQFLKRSLEMRERVLPDHPDCAQSLNN  
LAALCNEKKQYDKAEELYERALDIRRRALAPDHPSLAYTVKHLAILYKKMGKLDKAVPLY  
ELAVEIRQKSFGPKHPSVATALVNLAVLYSQMKKHVEALPLYERALKIYEDSLGRMHPRV  
GETLKNLAVLSYEGGDFEKAELYKRAMEIKEAETSLGGKAPSRHSSSGDTFSLKTAHS  
PNVFLQQGQR

>sp|E9PKD4|NPIA5\_HUMAN Nuclear pore complex-interacting protein family member A5 OS=Homo sapiens GN=NP1A5 PE=2 SV=1

MFCCLGYEWSGGCKTWHSAAVINTLADHRHRGTDGFGSPWLLIITVFLRSYKFAISLCT  
SYLCVSFLKTIIFPSQNGHDGSTDVQQRARRSNCRREQEIKIVLEDIFTLWRQVETKVRK  
IRKMKVTTKVNHRDKINGKRKTAKEHLRKL SMKEREHGEKERQVSEAEENGKLDMKEIHT  
YMEMFQRAQALRRRAEDYYRCKITPSARKPLCNVRMAAVEHRHSSGLPYWPYLTAETLK  
NRMGHQPPPPTQQHSIIDNSLSLKTTPSERLLYPLPPSADDNLKTPPECLLTPLPPSALPS  
ADDNLKTPAECLLTPLPPSAPPSADDNLKTPPECVCSLPFHPQRMIIISRN

>sp|Q92617|NPIB3\_HUMAN Nuclear pore complex-interacting protein family member B3 OS=Homo sapiens GN=NP1B3 PE=2 SV=5

MVKLSIVLTPQFLSHDQGQLTKELQQHVKSVTCPCEYLKRVINTLADHHHRGTDGFGSPW  
LHVIIAFPTS YKVVITLWIVYLWVSLLKTI FWSRNGHDGSTDVQQRRAWRSNRRRQEGLRS  
ICMHTKKRVSSFRGNKIGLDVITLRRHVETKVRKIRKRKVTTKINHDKINGKRKTAR  
KQKMFQRAQELRRRAEDYHKCKIPPSARKALCNWVRMAAAEHRHSSGLPYWPYLTAETLK  
NRMGHQPPPPTQQHSITDNSLSLKTTPPECLLTPLPPSADDNLKTPPECVLTPLPPSADDN  
LKTTPPECVLTPLPPSADDNLKTPPECLLTPLPPSADDNLKTPPECLLTPLPPSALPSAPP  
SADDNLKTRAECLLHPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLP  
PSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPSERQLTPL  
PPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPSERQLTALPPSADDNIKTPAERLRGP  
LPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAFHPQRMIIISRHLP SVSSLPFHPQL  
HPQQMIISRHLP SVCGGRFHPQQMIISRHLP SVSSLPFHPQLHPQQMIISRHLP SVCGGR  
FHPQRMIIISRHLP SVSSLPFHPQLHPQQMIISRHLP SVCGGRFHPQQMIISRHLP SVSSLP

>sp|Q8WTW4|NPRL2\_HUMAN Nitrogen permease regulator 2-like protein OS=Homo sapiens  
GN=NPRL2 PF=1 SV=2

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EKKLIGCPVCIIEHKKYSRNALLFNLFVCDAAKTCALPIVKKLAGYLTITLEESSFVS  
MEESKQKLVPIMTILLEELNASGRCTLPIDESNTIHLKVIEQRDPPPVAQEYDVPVFTKD  
KEDFFNSQWDLTTQQLPYIDGFRHIQKISAEADVELNLVRIAIQNLLYYGVVTLVSILQ  
YSNVYCPTPKVQDLVDDKSLQEACLSYVTKQGHKRASLRDVFQLYCSLSPGTTVRDLIGR  
HPQQLQHVDERKLIQFGLMKNLIRRLQKYPVRVTREEQSHPARLYTGCHSYDEICCKTGM  
SYHELDERLENDPNIICWK

>sp|O15239|NDUA1\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1  
OS=Homo sapiens GN=NDUFA1 PE=1 SV=1

MWFEILPGLSVMGVCLLIPGLATAYIHRFTNGGKEKRVAHFGYHWSLMERDRRISGVDRY  
YVSKGLENID

>sp|Q9UI09|NDUAC\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12  
OS=Homo sapiens GN=NDUFA12 PE=1 SV=1

MELVQVLKRLQKITGHGGLRGYLRVFFRTNDAKVGTLVGEDKYGNKYEDNKQFFGRHR  
WVVYTTMNGKNTFWDVDGSMVPEWHRWLHSMDDPPTTKPLTARKFIWTNHKFNVTGT  
PEQYVPYSTTRKKIQEWIPPSTPYK

>sp|Q9POJ0|NDUAD\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13  
OS=Homo sapiens GN=NDUFA13 PE=1 SV=3

MAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLIYGHWSIMKWNRRERRRL  
QIEDFEARIALPLLAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPPL  
IGELYGLRTTEALHASHGFMWYT

>sp|P17568|NDUB7\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7 OS=Homo  
sapiens GN=NDUFB7 PE=1 SV=4

MG AHLVRRYLGDASVEPDPLQMPPTFPDPYGFPERKEREMVATQQEMMDAQLRLQLRDYCA  
HHLIRLLKCKRDSFPNFLACKQERHDWDYCEHRDYVMRMKEFERERRLLQRKKRREKKA  
ELAKGQGPGEVDPKVAL

>sp|O96000|NDUBA\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10  
OS=Homo sapiens GN=NDUFB10 PE=1 SV=3

MPDSWDKDVYPEPPRRTPVQPNPIVYMMKAFDLIVDRPVTLVREFIERQHAKNRYYYHR  
QYRRVPDITECKEEDIMCMYEAEMQWKRDYKVDQEINIMQDRLKACQQREGQNYQQNCI  
KEVEQFTQVAKAYQDRYQDLGAYSSARKCLAKQRQRMQLQERKAAKEAAAATS

>sp|O43677|NDUC1\_HUMAN NADH dehydrogenase [ubiquinone] 1 subunit C1, mitochondrial  
OS=Homo sapiens GN=NDUFC1 PE=3 SV=1

MAPSALLRPLSRLLAPARLPSGPSVRSKFYVREPPNAKPDWLKVGF TLGTTVFLWIYLIK  
QHNEIDILEYKRRNGLE

>sp|Q7L592|NDUF7\_HUMAN Protein arginine methyltransferase NDUF7, mitochondrial OS=Homo  
sapiens GN=NDUFAF7 PE=1 SV=1

MSVLLRSLGLPLCAVARAAIPFIWRGKYFSSGNEPAENPVTMLRHLMYKIKSTGPITVA  
EYMKEVLTNPAKGYVYRDMLGEKGDFITSPEISQIFGELLGIWFISEWMATGKSTAFQL  
VELGPGRGTLVGDLRVFTQLGSVLKNCDISVHLVEVSQKLSEIQALTLTKEKVPLERNA  
GSPVYMKGVTKSGIPISWYRDLHDVPKGYSFYLAHEFFDVLPHKFKQTPQGWRVFDI  
DPQVSDKLRFLVAPSATPAEAFIQHDETRDHVEVCPDAGVIEELSQRIALTGGAALVAD  
YGHGDKTDTFRGFCDHKLHDVLIAPGTADLTADVDFSYLRRMAQGVASLGPIKQHTFL  
KNMGIDVRLKVLLDKSNESVSRQQLQGYDMLMNPCKMGERFNFFALLPHQRLQGGRYQR



NARQSKPFASVVAGFSELAWQ

>sp|Q96P71|NECA3\_HUMAN N-terminal EF-hand calcium-binding protein 3 OS=Homo sapiens  
GN=NECAB3 PE=1 SV=2

MACAGLLTVCLLRPPAPQPQPQTPRHPQLAPDPGPAGHTLFDQDVFRRADKNDDGKLSFEE  
FQNYFADGVLSLGELQELFSGIDGHLTDNLETEKLCDYFSEHLGVYRPVLALES LNRAV  
LAAMDATKLEYERASKVDQFVTRFLLRETVSQ LQALQSSLEGASDTLEAQAHGWRSDAES  
VEAQSRLCGSRRAGRRLRSVSRSTWSPGSSDTGRSSEAEMQWRLQVNRLQELIDQLEC  
KVRVGP GPHKGGPSWYPPEPGCWRPGPHSVPSQAPRLEPLREEDLAKGPD LHI LMAQR  
QVQVAEEGLQDFHRALRCYVDFTAQSHCLHVSQAQKMLDGASFTLYEFWQDEASWRRHQQ  
SPGSKAFQRILIDHLRAPDTLTTFVFPASWWIMNNN

>sp|Q9NQS3|NECT3\_HUMAN Nectin-3 OS=Homo sapiens GN=NECTIN3 PE=1 SV=1

MARTLRPSPLCPGGGAQLSSASLLGAGLLLPPTPPPLLLLLFPLLLFSRLCGALAGPI  
IVEPHVTAVWGKNVSLKCLIEVNETITQISWEKIHGKSSQTVAVHHPQYGF SVQGEYQGR  
VLFKNYS LNDATITLHNIGFSDSGKYICKAVTFPLGNAQSSTTVTVLVEPTVSLIKGPDS  
LIDGGNETVAAICIAATGKPVAHIDWEGDLGEMESTTTSFPNETATIIISQYKLFPTRFAR  
GRRITCVVKHPALEKDIRYSFILD IQYAPEVSVTGYDGNWFVGRKGVNLKCNADANPPPF  
KSVWSRLDGQWPDGLLASDNTLHFVHPLTFNYSGVYICKVTNSLGRSDQKVIYISDPPT  
TTTLQPTIQWHPSTADIEDLATEPKLPFPLSTLATIKDDTIATIIASVVGGALFIVLVS  
VLAGIFCYRRRTFRGDYFAKNYIPPSDMQKESQIDVLQQDELDSYPDSVKKENKNPVNN  
LIRKDYLEEPEKTQWNNVENLNRFERPMDYYEDLKMGMKFVSDEHYDENEDDLVSHVDGS  
VISRREWYV

>sp|Q7Z3B1|NEGR1\_HUMAN Neuronal growth regulator 1 OS=Homo sapiens GN=NEGR1 PE=1 SV=3

MDMMLLVQGACCSNQWLA AVLLSLCCLLPSCLPAGQSVDFPWA AVDNMMVRKGDTAVLRC  
YLEDGASKGAWLNRSSII FAGGDKWSVDPRVSISTLNKR DYSLQIQNV DVTDDGPYTCSV  
QTQHTPRTMQVHLTVQVPPKIYDISNDMTVNEGTNVTLTCLATGKPEPSISWRHISPSAK  
PFENGQYLDIYGITRDQAGEYECSAENDVSFPDVRKV KVVVNFAPT IQEIKSGTVTPGRS  
GLIRCEGAGVPPPAFEWYKGEKKLFNGQQGII IQNFSTRSILTVTNVTQEHFGNYTCVAA  
NKLGTTNASLPLNPPSTAQYGITGSADVLFCWYLVLTLSSTSFIFYLKNAILQ

>sp|Q969S2|NEIL2\_HUMAN Endonuclease 8-like 2 OS=Homo sapiens GN=NEIL2 PE=1 SV=3

MPEGPLVRKFHHLVSPFVGQQVVKTGSSKKLQPASLQSLWLQDTQVHGKKLFLRFDLDE  
EMGPPGSSPTPEPPQKEVQKEGAADPKQVGEPSPGKTLDGSSRSAELVPQG EDDSEYLER  
DAPAGDAGRWLVSFGLFGSVVWNDFSRAKKANKRGDWRDPSPRLVLHFGGGGFLAFYNC  
QLSWSSSPVVTPTCDILSEKFHRGQALEALGQAQPV CYTLLDQRYFSGLGNI IKNEALYR  
AGIHPLSLGSVLSASRREVLDHVVEFSTAWLQGKFQGRPQHTQVYQKEQCPAGHQVMKE  
AFGPEDGLQRLTW WCPQCQPQLSEEPEQCQFS

>sp|Q8NG66|NEK11\_HUMAN Serine/threonine-protein kinase Nek11 OS=Homo sapiens GN=NEK11  
PE=1 SV=2

MLKFQEAAKCVSGSTAISTYPKTLIARRYVLQQKLGSGSFGTVYLVSDKKAKRGEELKVL  
KEISVGELNPNETVQANLEAQLLSKLDHPAIVKFHASFVEQDNFCII TEYCEGRDLDDKI  
QEYKQAGKIFPENQIEWFIQ LLLGV DYMHERRILHRDLKSKNVFLKNNLLKIGDFGVSR  
LLMGSCDLATTLTGTPHYMSPEALKHQGYDTKS DIWSLACILYEMCCMNHAFAGSNFLSI  
VLKIVEGDTPSLPERYPKELNAIMESMLNKNPSLRPSAIEILKIPYLDEQLQNL MCRYSE  
MTLEDKNLDCQKEAAHIINAMQKRIHLQTLRALSEVQKMTPREMRRLRKLQA ADEKARKL  
KKIVEEKEYEENSKRMQELRSRNFQQLSVDVLHEKTHLKGMEEEKEEQPEGRLSCSPQDEDE

ERWQGREEESDEPTLENLPESQPIPSMDLHELESIVEDATSDLGHEIPEDPLVAEEYYA  
DAFDSYCEESDEEEEEIALERPEKEIRNEGSQPAYRTNQQDSIEALARCLENVLGCTSL  
DTKTITTMAEDMSPGPPIFNSVMARTKMKRMRESAMQKLGTEVFEEVYNLKRARHQNAS  
EAEIRECLEKVVPQASDCFEVDQLLYFEEQLLITMGKEPTLQNLH

>sp|Q96PY6|NEK1\_HUMAN Serine/threonine-protein kinase Nek1 OS=Homo sapiens GN=NEK1 PE=1  
SV=2

MEKYVRLQKIGESFGKAILVKSTEDGRQYVIKEINISRMSSKEREESRREVAVLANMKH  
PNIVQYRESFEENGSLYIVMDYCEGGDLFKRINAQKGVLFQEDQILDWFVQICLALKHVH  
DRKILHRDIKSQNIFLTKDGTVQLGDFGIARVLNSTVELARTCIGTPYYLSPEICENKPY  
NNKSDI WALGCVLYELCTLKHAFEAGSMKNLVLKIISGSFPPVSLHYSYDLRSLVSQLFK  
RNPRDRPSVNSILEKGFI AKRIEKF LSPQLIAEEFCLKTF SKFGSQPIPAKR PASGQNSI  
SVM PAQKITKPAAKYGIPLAYKKYGDKKLHEKKPLQKHKQAHQTPEKRVNTGEERRKISE  
EAARKRRLEFIEKEKKQKDQIIISLMKAEQMKRQEKERLERINRAREQGWRNVLSAGGSGE  
VKAPFLGSGGTIAPSSFSSRGQYEHYHAIFDQMQQRAEDNEAKWKREIYGRGLPERGIL  
PGVRPGFPYGAAGHHHPDADDIRKTLKRLKAVSKQANANRQKGQLAVERAKQVEEFLQR  
KREAMQN KARAEGHMVYLARLRQIRLQNFNERQQIKAKLRGEKKEANHSEGQEGSEEADM  
RRKKIESLKAHANARA AVLKEQLERKRKEAYEREKKVWEEHLVAKGVKSSDVSPPLGQHE  
TGGSPSKQMRSVISVTSALKEVGVDSSLTDRETSEEMQKTNNAISSKREILRRLNENL  
KAQEDEK GKQNLSDTFEINVHEDAKEHEKEKSVSSDRKKWEAGGQLVIPLDELTLDTSFS  
TTERHTVGEVIKLGPNGSPRAWGKSPTDSVLKILGEAELQLQTELENTTIRSEISPEG  
EKYKPLITGEKKVQCISHEINPSAIVDSPVETKSPEFSEASPQMSLKLEGNLEEDDLET  
EILQEPSGTNKDES L PCTITDVWISSEKETKETQSADRITIQENEVSEDGVSSTVDQLSD  
IHIEPGTND SQHSKCDVDKSVQPEPFFHKVVHSEHLNLVPQVQSVQCSPEESFAFRSHSH  
LPPKNKNKNSLLIGLSTGLFDANNPKMLRTCSLPDL SKLFR TLM DVPTVGDVRQDNLEID  
EIEDENIKEGPSDES EDIVFEETD TDLQELQASMEQLLREQPGEEYEEEE SVLKN SDVEP  
TANGTDVADEDDNPSS ESALNEEWHSDNSDGEIASECECDSVFNHLEELRLHLEQEMGFE  
KFFEVYEKIKAIHEDEDENIEICSKIVQNILGNEHQHLYAKILHLVMADGAYQEDNDE

>sp|Q9HC98|NEK6\_HUMAN Serine/threonine-protein kinase Nek6 OS=Homo sapiens GN=NEK6 PE=1  
SV=2

MAGQPGHMPHGGSSNNLCHTLGPVHPDPQRHPNTLSFRCSLADFQIEKKIGRGQFSEVY  
KATCLLDRKTVALKKVQIFEMMDAKARQDCVKEIGLLKQLNHPNIIKYLDSFIEDNELNI  
VLELADAGDLSQMIKYFKKQKRLIPERTVWKYFVQLCSAVEHMHSSRRVMHRDIKPANVFI  
TATGVVKLGDLGLGRFFSSETTAAHSLVGTPYYMSPERIHENGYNFKSDIWSLGCLLYEM  
AALQSPFYGDKMNLFSLCQKIEQCDYPPLPGEHYSEKLRELVSMCICDPHQRPDIGYVH  
QVAKQMHIWMSST

>sp|Q86SG6|NEK8\_HUMAN Serine/threonine-protein kinase Nek8 OS=Homo sapiens GN=NEK8 PE=1  
SV=1

MEKYERIRVVGRGAFGIVHLCLRKADQKLVI IKQIPVEQMTKEERQAAQNECQVLKLLNH  
PNVIEYYENFLEDKALMIAMEYAPGGTLAEFIQKRCNSLLEEETILHFFVQILLALHHVH  
THLILHRDLKTQNILLDKHRMVVKIGDFGISKILSSKSKAYTVVGTPCYISPELCEGKPY  
NQKSDI WALGCVLYELASLKRAFEAANLPALVLKIMSGTFAPISDRYSPELRQLVLSLLS  
LEPAQRPPLSHIMAQPLCIRALLNLHTDVGSVRMRRAEKSVAPSNTGSRTTSVRCRGIPR  
GPVRPAIPPP LSSVYAWGGGLGTPLRLPMLNTEVVQVAAGRTQKAGVTRSGRLILWEAPP  
LGAGGGSLLPGAVEQPQPQFISRFLGQSGVTIKHVACGDDFTACLTDRGIIMTFGSGSN

GCLGHGSLDISQPTIVEALLGYEMVQVACGASHVLALSTERELFAWGRGDSGRLGLGTR  
ESHSCPQQVPMPPGQEAQRVVCIDSSMILTVPGQALACGSNRFNKLGLDHLSLGEEPVP  
HQQVEEALSFTLLGSAPLDQEPLLSIDLGTAHSAAVTASGDCYTFGSNQHGLGTNTRRG  
SRAPCKVQGLEGIKMAMVACGDAFTVAIGAEEVYSWGKGARGRLGRRDEDAGLPRPVQL  
DETHPYTVTSVSCCHGNTLLAVRSVTDEPVPP

>sp|P18615|NELFE\_HUMAN Negative elongation factor E OS=Homo sapiens GN=NELFE PE=1 SV=3  
MLVIPPGLSEEEALQKKFNKLKKKKALLALKKQSSSSTTSQGGVKRSLSEQPVMdTAT  
ATEQAKQLVKSGAISAIAETKNSGFKRSRTLEGKLDPEKGPVPTFQPFQRSISADDDL  
QESSRRPQRKSLYESFVSSDRLRELGPDGEEAEGPGAGDGPPRSFDWGYEERSGAHSSA  
SPPRSRSRDRSHERNRDRDRERDRDRDRDRDRDRDRDRDRDRDRDRDRDRDRDRDRDR  
DREGPFRRSDSFERRAPRKGNTLYVYGEDMTPTLLRGAFSPFGNIIDLSDPPRNCAFV  
TYEKMESADQAVAEANGTQVESVQLKVNIAARKQPMLEAATGKSVWGS LAVQNSPKGCHRD  
KRTQIVYSDDVYKENLVDGF

>sp|Q9Y4A8|NF2L3\_HUMAN Nuclear factor erythroid 2-related factor 3 OS=Homo sapiens  
GN=NFE2L3 PE=1 SV=1

MKHLKRWSAGGGLLHLTLLSLAGLRVDLDLYLLLPPTLLQDELLFLGGPASSAYALS  
PFSASGGWGRAGHLHPKGRELDPAAPPEGQLLREVRLGVPFVPRTSVDAWLHVSVAAGS  
ADEAHGGLGAAAASSTGGAGASVDGGSQAVQGGGDPRAARSGPLDAGEEEKAPAEPTAQ  
VPDAGGCASEENGVLREKHEAVDHSSQHEENEERVSQAQKENSLLQNDDEENKIAEKPDWE  
AEKTTESRNERHLNGTDTSFSLDLFQLLSSQPENSLEGISLGDIPGPSISDGMNSSAH  
YHVNFSQAISQDVNLHEAILLCPNNTFRDPTARTSQSQEPFLQLNSHTTNPEQTLPGTN  
LTGFLSPVDNHRNLTSQDLLYDLINIFDEINLMSLATEDNFDPIDVSQLFDEPDSDSG  
LSLDSSHNTSVIKSNSSHVCDEGAIGYCTDHESSSHDLEGAVGGYYPEPSKLCHLDQ  
SDSDFHGDLTQHVFNHTYHLQPTAPESTSEFPWPQKSQKIRSRYLEDTDRNLSRDEQ  
RAKALHIPFSVDEIVGMPVDSFNSMLSRYLTDLQVSLIRDIRRGKNKVAQNCRKRL  
DIILNLEDDVCNLQAKKETLKREQAQCNKAINIMKQKLHDLYHDIFSRLRDDQGRPVNPN  
HYALQCTHDGSILIVPKELVASGHKKETQKGRK

>sp|Q86UQ8|NFE4\_HUMAN Transcription factor NF-E4 OS=Homo sapiens GN=NFE4 PE=1 SV=1

MPRVVCWHTLKSNGYKNLSSGAETREGLRSSSPVDLPLRPKQATAAGQRKLLSLQLLL  
CACTSVTDLTWGPAGHGATAPHRSLIAIHLHLPASSAAMKATGPHNAQTQVNPQGHAP  
SAEDPTGTWTVSGPCKDHPHPFLSQSNPPTRISSALPLKTDQSALEQTPQQLPSLHLSQG

>sp|Q9BT67|NFIP1\_HUMAN NEDD4 family-interacting protein 1 OS=Homo sapiens GN=NFIP1 PE=1  
SV=1

MALALAALAAVEPACGSRYQLQNEEESGEPEQAAGDAPPPYSSISAESAAYFDYKDESG  
FPKPPSYNVATTLPSTYDEAERTKAEATIPLVGRDEDFVGRDDFDDADQLRIGNDGIFML  
TFFMAFLFNWIGFSLFCLTTSAGRYGAISGFLSLIKWILIVRFSTYFPGYFDGQYWL  
WWWFLVLGFLFLRGFINYAKVRKMPETFSNLPRTVLFIY

>sp|Q00653|NFKB2\_HUMAN Nuclear factor NF-kappa-B p100 subunit OS=Homo sapiens GN=NFKB2  
PE=1 SV=4

MESCYNPLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRGFRFRYGCCEGP  
SHGGLPGASSEKGRKTYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGIC  
AVSVGPKDMAQFNNLGVLVHTTKNMMGMTMIQKLQRQLRSRPQGLTEAEQRELEQEAKE  
LKKVMDLSIVRLRFS AFLRASDGFSFLPKPVISQPIHDSKSPGASNLKISRMDKTAGSV  
RGGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPTDVHKQYAIIVFRTPPYHKMKIE

RPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRRKALPTFSQPFGGGSHMGGGS  
GGAAGGYGGAGGGGSLGFFPSSLAYSPIYQSGAGPMGCYPGGGGGAQMAATVPSRDSGEEA  
AEPSAPSRTPQCEPQAPEMPLQRRAREYNARLFGLAQRSARALLDYGVTTADARALLAGQRHL  
LTAQDENGDTPLHLAI IHGQTSVIEQIVYV IHHAQDLGVVNL TNHLHQTPLHLAVITGQT  
SVVSFLLRVGADPALLDRHGDSAMHLALRAGAGAPELLRALLQSGAPAVPQLLHMPDFEG  
LYPVHLAVRARSPECLDLLVDSGAEEVEATERQGGRTALHLATEMEELGLVTHLVTKLRAN  
VNARTFAGNTPLHLAAGLGYPTRLRLLLKAGADIHAENEEPLCPLSPSPPTS DSDSDSEGP  
EKDTRSSFRGHTPLDLTCTSKVKLTLLNAAQNTMEPPLTPPSPAGPGLSLGDTALQNLEQ  
LLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPSGSLRSYELAGGDLAGLLEALSDMGL  
EEGVRLLRGPETRDKLPSTA EVKEDSAYGSQSVEQEA EKLGPPEPPGGLCHGHPQPQVH

>sp|Q13952|NFYC\_HUMAN Nuclear transcription factor Y subunit gamma OS=Homo sapiens GN=NFYC  
PE=1 SV=3

MSTEGGFGGTSSSDAQSLQSFWRPMEEIRNLTVKDFRVQELPLARIKKIMKLEDEDVKM  
ISAEAPVLFAKAAQIFITELTLRAWIHTEDNKRRTLQRNDIAMAITKFDQFDLIDIVPR  
DELKPPKRQEEVRQSVTPAEPVQYYFTLAQQPTAVQVQGGQQGQQTTSSTTTIQPGQIII  
AQPQQGQTTPTVMQVGEQQVQIVQAQPQQAQQAQSGTGQTMQVMQQIITNTGEIQQIP  
VQLNAGQLQYIRLAQPVSGTQVVQGGQIQTLATNAQGGQRNASQGKPRRCLKETLQITQTE  
VQQGQQQFSQFTDGRNSVQARVSELTGEAEPREVKATGNSTPCTSSLPTTHPPSHRAG  
ASCVCCSQPQQSSTSPPPSDALQWVVVEVSGTPNQLETHRELHAPLPGMTSLSPLHPSQQ  
LYIQQVTMPAGQDLAQPMFIQSANQPSDGGQAPQVTGD

>sp|Q9UJF2|NGAP\_HUMAN Ras GTPase-activating protein nGAP OS=Homo sapiens GN=RASAL2 PE=1  
SV=2

MQTPEVPAERSPRRRSISGTSTSEKPNMMDTANTSPFKVPFFSKRLKGSIKRTKSQSKL  
DRNTSFRPLSLRSTDDRSRGLPKLKESRSHESSLSPCSTVECLDLGRGEPVSVKPLHSSI  
LGQDFCFEVTYLSGSKFCSCNSASERDKWMENLRRTVQPNKDNCRRAENVLRWLWIEAKD  
LAPKKKYFCLECLDDTLFARTSTKTKADNIFWGEHFEFFSLPPLHSITVHIYKDVEKKKK  
KDKNNYVGLVNIPTASVTGRQFVEKWYPVSTPTPNKGKTGGPSIRIKSRFQTITILPMEQ  
YKEFAEFVTSNYTMLCSVLEPVISVRNKEELACALVHILQSTGRAKDFLTDLMSEVDRC  
GEHDVLI FRENTIATKSIEEYLKLVGQQYLHDALGEFIKALYESDENCEVDPSKCSSEL  
IDHQSNLKMCCELAFCKIINSYCVFPRELKEVFASWKQQCLNRGKQDISERLISASLFLR  
FLCPAIMSPSLFNLMEYPDDRTSRTLTIKVIQNLANFAKFGNKEEYMAFMNDFLEHE  
WGGMKRFLLEISNPDTISNTPGFDGYIDLGRELSVLHSLWEVVSQLDKGENSEFLQATVA  
KLGPLPRVLADITKSLTNPTPIQQQLRRFTEHNSSPNVSGSLSSGLQKIFEDPTDSLHK  
LKSPSQDNTDSYFRGKTLLLVQQASSQSMYSEKDERESSLPNGRSVSLMDLQDTHAAQV  
EHASVMDVPIRLTGSQLSITQVASIKQLRETQSTPQSAPQVRRPLHPALNPQGLQPLS  
FQNPVYHLNNPIAMPKASIDSSLENLSTASSRSQSNSEDFKLSGPNSSMEDFTKRSTQ  
SEDFSRRHRTVPDRHIPLALPRQNSTGQAQIRKVDQGGLGARAKAPPSLPHSASLRSTGSM  
SVVSAALVAEPVQNGSRSRQSSSSRESPVKVRAIQRQQTQVQSPVDSATMSPVERTA  
AWVLNNGQYEEDEVETEQLNDEAKHAEKYEQETIKLKERLRVSSRRLEEYERRLLVQEQQ  
MQKLLLEYKARLEDEERLRRQEEKDSQMKSIISRLMAVEEELKKDHAEMQAVIDAKQK  
IIDAQEKRIVSLDSANTRLMSALTQVKERYSMQVRNGISPTNPTKLSITENGEFKNSSC

>sp|Q9NPG2|NGB\_HUMAN Neuroglobin OS=Homo sapiens GN=NGB PE=1 SV=1  
MERPEPELIRQSWRAVRSRPLEHGTVLFARLFALPEDLLPLFYQNCRQFSSPEDCLSSPE  
FLDHIRKVMLVIDAAVTNVEDLSSLEEYLASLGRKHRVGVKLSSTVSTVGESLLYMLEKC

LGPAFTPATRAAWSQLYGAVVQAMSRGWDGE

>sp|P01138|NGF\_HUMAN Beta-nerve growth factor OS=Homo sapiens GN=NGF PE=1 SV=3

MSMLFYTLITAFLLIGIAEPHSESNVPAGHTIPQAHWTQLQHSLDTALRRARSAPAAAIA  
ARVAGQTRNITVDPRLFKKRRLLSPRVLFSTQPPREAADTQDLDFEVGGAAPFNRTHRSK  
RSSSHPIFHRGEFSVCDSSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCR  
DPNPVDSGCRGIDSKHWSYCTTHTTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRR  
A

>sp|Q92886|NGN1\_HUMAN Neurogenin-1 OS=Homo sapiens GN=NEUROG1 PE=1 SV=2

MPARLETCISDLDCASSSGSDLGFLTDEEDCARLQQAASASGPPAPARRGAPNISRASE  
VPGAQDDEQERRRRRGRTRVRSEALLHSLRRSRRVKANDRERNRMHNLNAALDALRSVLP  
SFPDDTKLTKIETLRFAYNYIWALAETLRLADQGLPGGARERLLPPQCVPCLPGPSSPA  
SDAESWGSGAAAASPLSDPSSPAASEDFTYRPGDPVFSFSPSLPKDLLHTTPCFIPYH

>sp|Q9Y4Z2|NGN3\_HUMAN Neurogenin-3 OS=Homo sapiens GN=NEUROG3 PE=1 SV=2

MTPQPSGAPTQVQVRETERSFPRASEDEVTCPTSAPPSPTTRGNCAEAEEGGCRGAPRK  
LRARRGGRSRPKSELALSKQRRSRKKANDRERNRMHNLNSALDALRGVLPPTFDDAKLT  
KIETLRFAHNYIWALTQTLRIADHSLYALEPPAPHCHELSPGGSPGDWGSLYSPVSQAG  
SLSPAASLEERPGLLGATFSACLSPGSLAFSDFL

>sp|Q9H9Q4|NHEJ1\_HUMAN Non-homologous end-joining factor 1 OS=Homo sapiens GN=NHEJ1 PE=1  
SV=1

MEELEQGILLMQPWAWLQLAENSLAKVFITKQGYALLVSDLQQVWHEQVDTSVVSQRAKE  
LNKRLTAPPAAFLCHLDNLLRPLLKDAHPSEATFSCDCVADALILVRSELSGLPFYWN  
FHCMLASPSLVSQHLIRPLMGMSLALQCQVRELATLLHMKDLEIQDYQESGATLIRDRLK  
TEPFEENSFLEQFMIEKLPEACSIGDGKPFVMNLQDLYMAVTTQEVQVQKHKQAGDPHT  
SNSASLQGIDSQCVNQPEQLVSSAPTLSAPEKESTGTSGPLQRPQLSKVKRKKPRGLFS

>sp|Q96TA1|NIBL1\_HUMAN Niban-like protein 1 OS=Homo sapiens GN=FAM129B PE=1 SV=3

MGDVLSTHLLDDARRQHIAEKTGKILTEFLQFYEDQYGVAFNSMRHEIEGTGLPQAQLLW  
RKVPLDERIVFSGNLFQHQEDSKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVNSA  
GYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPILLWHPYARHYFFCMMTEAEQ  
DKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNL  
VMEELGPPELKAELGPRLKGPQERQQRQWIIQISDAVYHMYEQAKARFEEVL SKVQQVQPA  
MQAVIRTDMDQIIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTE  
VRDVFFKEVTDMNLNINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQR  
FDVSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGKGPTKEELCKSIQRVLERVLKKY  
DYDSSSVRKRFFREALLQISIPFLKKLAPTCKSELPRFQELIFEDFARFILVENTYEEV  
VLQTMKDILQAVKEAAVQRKHNLYRDSMVHNSDPNLHLLAEGAPIDWGEEYSNSGGGG  
SPSPSTPESATLSEKRRRAKQVSVVQDEEVGLPFEASPESPPPASPDPGVTEIRGLLAQG  
LRPESPPPAGPLNGAPAGESPQPKAAPEASSPPASPLQHLLPGKAVDLGPPKPSDQETG  
EQVSSPSSHPALHTTTEDSAGVQTEF

>sp|Q92542|NICA\_HUMAN Nicastrin OS=Homo sapiens GN=NCSTN PE=1 SV=2

MATAGGSGADPGSRGLLRLLSFCVLLAGLCRGNSVERKIYIPLNKTAPCVRLNATHQI  
GCQSSISGDTGVIHVVEKEEDLQWVLTGPNPPYMVLLSKHFTRDLMEKLKGRTSRIAG  
LAVSLTKPSPASGFSPSVQCPNDGFGVYSNSYGPEFAHCREIQWNSLGNGLAYEDFSFPI  
FLEDENETKVIKQCYQDHNSQNGSAPTFPLCAMQLFSHMAVISTATCMRRSSIQSTF  
SINPEIVCDPLSDYNVWSMLKPINTTGTLKPDDRVRVVAATRLDSRSFFWNVAPGAESAVA

SFVTQLAAAEALQKAPDVTTLPRNVMFVFFQGETFDYIGSSRMVYDMEKGKFPVQLENVD  
SFVELGQVALRTSLELWMHTDPVSQKNESVRNQVEDLLATLEKSGAGVPAVILRRPNQSQ  
PLPPSSLQRFLRARNISGVVLADHSGAFHNKYYQSIYDTAENINVSYPEWLSPEEDLNFV  
TDTAKALADVATVLGRALYELAGGTNFSDTVQADPQTVTRLLYGFLIKANNSWFQSILRQ  
DLRSYLGDGPLQHYIAVSSPTNTTYVVQYALANLTGTVVNLTREQCQDPSKVPSENKDLY  
EYSWVQGPLHSNETDRLPRCVRSTARLARALSPAFELSQWSSTEYSTWTESRWKDIRARI  
FLIASKELELITLTVGFGILIFSLIVTYCINAKADVLFIAPREPGAVSY

>sp|Q9HAS0|NJMU\_HUMAN Protein Njmu-R1 OS=Homo sapiens GN=C17orf75 PE=1 SV=2

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SGTNAETPSGDDFSLSLADTNLPSEVEPELRSFIAKRLSRGAVFEGLGNVASVELKIPGY  
RVGCYYCLFQNEKLLPETVTIDSERNPSEYVVCFLGGSEKGLELFRLELDKYIQGLKNM  
NCEARGLESHIKSYLSSWFEDVVCPIQRVVLLFQEKLTFLLHAALSYTPVEVKESDEKTK  
RDINRFLSVASLQGLIHEGTMSTLCMAMTEEQHKSVDICSSSQPQFCNAGSNRFCEDWM  
QAFLNGAKGGNPFLFRQVLENFKLKAIQDTNNLKRFIQAEMNHYALFKCYMFLKNCGSG  
DILLKIVKVEHEEMPEAKNVIIVLEEFMKEALDQSF

>sp|Q07444|NKG2E\_HUMAN NKG2-E type II integral membrane protein OS=Homo sapiens GN=KLRC3  
PE=2 SV=3

MSKQRGTFSEVSLAQDPKWQQRKPKGNKSSISGTEQEIFQVELNLQNASLNHQGIDKIYD  
CQGLLPPEKLTAEVLGIICIVLMATVLKTIIVLIPFLEQNNSSPNARTQKARHCGHCPEE  
WITYSNSCYIIGKERRTWEESLQACASKNSSSLLCIDNEEEMKFLASILPSSWIGVFRNS  
SHHPWVTINGLAFKHEIKSDHAERNCAMLHVRGLISDQCGSSRIIRRGFIMLTRVLNS

>sp|P30414|NKTR\_HUMAN NK-tumor recognition protein OS=Homo sapiens GN=NKTR PE=1 SV=2

MGAQDRPQCHFDIEINREPVGRI MFQLFSDICPKTCNFCCLCSGEKGLGKTTGKKLCYK  
GSTFHRVVKNFMIQGGDFSEGNGKGGESIYGGYFKDENFILKHDRAFLSMANRGKHTNG  
SQFFITTKPAPHLDGVHVVFGLVISGFEVIEQIENLKTDAASRPYADVRVIDCGVLATKS  
IKDVFEKKRKKPTHSEGSDDSSSSSSSESESELEHERSRRRKHRRPKVKRSKKRRK  
EASSSEEPNKHAMNPKGHSERSDTNEKRSVDSSAKREKPVVRPEEIPVPENRFLLRD  
MPVVTAEPEKIPDVAPIVSDQKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDDSSSE  
TPPHWKEEMQRLRAYRPPSGEKWSKGDKLSGPCSSRWDERSLSQRSRSWSYNGYYSDLST  
ARHSGHHKKRRKEKKVKHKKKGKKQKHCRHKQTKRRILIPSDIESSKSSTRMKSSCD  
RERSSRSSSLSHHSSKRDWSKDKDVQSSLTHSSRDSYRSKSHSQSYRGSRSRTASK  
SSSHRSRSKSRSSSKGHRKRASKSPRKASQLSENKPVKTEPLRATMAQNENVVQPV  
VAENIPVIPLSDPPPSRWKPGQKPWKPSYERI QEMKAKTTHLLPIQSTYSLANIKETGS  
SSSYHKREKNSESDQSTYSKYSDRSSESSPRSRSRSSRSRSYSYTRSRLASSHSRSR  
SPSSRSHSRNKYSQHSQCSRSSSYTSSISDDGRRAKRRLRSSGKNSVSHKKHSSSEKT  
LHSKYVKGRDRSSCVRKYSESRSLLDYSSDSEQSSVQATQSAQEKEKQGMERTHNKQEK  
NRGEEKSKSERECPHSKKRTLKENLSDHLRNGSKPKRKNYAGSKWDESNSERDVTNSK  
NDSHPPSSDKEEGEATSDSESEVSEIHIKVKPTTKSSTNTSLPDDNGAWKSKQRTSTSDS  
EGSCSNSENNRGKPKQKHKGSKENLKREHTKKVKEKLKGKKDKKHKAPKRKQAFHWQPPL  
EFGEEEEEEIDDKQVTQESKEKKVSENNETIKDNILKTEKSSEEDLSGKHDTVTVSSDL  
QFTKDDSKLSISPTALNTEENVACLQNIQHVEESVPNGVEDVLQTDNMEICTPDRSSPA  
KVEETSPLGARLDTPDINIVLKQDMATEHPQAEVVKQESSMSSESKVLGEVGKQDSSAS  
LASAGESTGKKEVAESQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTTPPEMKPQ  
GLRIEIKSKNKVRPGSLFDEVKRTARLNRPRNQESSDEQTPSRDDDSQSRSPSRSRK

SETKSRHRTSVSYSHRSRSRSTSSYRSRSYSRSRSGWYSRGRTRSSSYRSYKSH  
RTSSRSRSRSSSYDPHSRSRSYTYDSYYSRSRSRSRSQRSDSYHRGRSYNRRSRSCRSYG  
SDSESDRSYSHRSPSESSRYS

>sp|Q9UD57|NKX12\_HUMAN NK1 transcription factor-related protein 2 OS=Homo sapiens  
GN=NKX1-2 PE=2 SV=3

MLAWQDGGAKAAPSHHKISFSVLDILDPQKFTRAALPAVRPAPREARKSLAEVEAGKDAS  
SRDPVRQLETPDAAGPGAGQASPLEGSEAEEDAEPRRPRLRERAAALLPGLARSPDA  
PAGALASGEPCEDEGGGPPVRSPPGSPGSPRPRRRRLEPNCAKPRRARTAFITYEQLVALEN  
KFRATRYLSVCERLNLALSLSLTETQVKIWFQNRRTKWKQNPAGDAAQVGGGAPQPGA  
AGGGGGGGSGSPGPPGTGALHFQTFPSYSAANVLFPSAASFPLTAAAPGSPFAPFLGPS  
YLTPFYAPRL

>sp|O95096|NKX22\_HUMAN Homeobox protein Nkx-2.2 OS=Homo sapiens GN=NKX2-2 PE=2 SV=1

MSLTNTKTGFSVKDILDLPDNDDEEGSVAEGPEEENEGPEPAKRAGPLGQALDAVQSLP  
LKNPFYDSSDNPYTRWLASTEGLQYSLHGLAAGAPPQDSSSKSPEPSADESPDNDKETPG  
GGGDAGKKRRRVLFSKAQTYELERRFRQQRYSAPEREHLASLIRLTPTQVKIWFQNRH  
YKMKRARAEGKMEVTPLPSPRRVAVPVLVRDGKPCHALKAQDLAAATFQAGIPFSAYSAQ  
SLQHMQYNAQYSSASTPQYPTAHPLVQAQQTW

>sp|Q86UT6|NLRX1\_HUMAN NLR family member X1 OS=Homo sapiens GN=NLRX1 PE=1 SV=1

MRWGHHLPRASWGSFRRALQRPDDRIPFLIHWSWPLQGERPFGPPRAFIRHHGSSVDSA  
PPPGRHGRLFPSASATEAIQRHRRNLAEWFSRLPREERQFGPTFALDTVHVDPIRESTP  
DELLRPPAELALEHQPQAGLPPLALSQLFNPDACGRRVQTVVLYGTGTGKSTLVRKMV  
LDWCYGRLPAPELLIPFSCEDLSSLGPAPASLCQLVAQRYTPLKEVLPLMAAAGSHLLFV  
LHGLEHLNLDRLAGTGLCSDPEEPQEPAAIIVNLLRKYMLPQASILVTTRPSAIGRIPS  
KYVGRYGEICGFSDTNLQKLYFQLRLNQPYCGYAVGGSGVSATPAQRDHLVQMLSRNLEG  
HHQIAAACFLPSYCWLVCATLHFLHAPTAGQTLTSIYTSFLRLNFSGETLDSTDPNLS  
LMAYAARTMGKLAYEGVSSRKYTFSEEDVCGCLEAGIRTEEEFQLLHIFRRDALRFFLAP  
CVEPGRAGTFVFTVPAMQEYLAALYIVLGLRKTTLQKVGKEVAELVGRVGEDVSLVLGIM  
AKLLPLRALPLLNLIKVVPVRFGRMVGKSREAVAQAMVLEMFREEDYNDVDLQMGAS  
ILGVEGPRRHPEDEPEDEVFELFPMFMGGLLSAHNRAVLAQLGCPKLNDALENAQAIAKK  
KLGKLGQRVLPPELDDHLFFHYEFQNRFSAEVLSSLRQLNLAGVRMTPVKCTVVA AVL  
GSGRHALDEVNLASCQLDPAGLRITLLPVFLRARKLGLQLNSLGPEACKDLRDLHLDQCQ  
ITTLRLSNNPLTAAGVAVLMEGLAGNTSVTHLSLLHTGLGDEGLELLAAQLDRNRQLQEL  
NVAYNGAGDTAALALARAAREHPSLELLHLYFNELSSEGRQVLRDLGGAAEGGARVVVSL  
TEGTAVSEYWSVILSEVQRNLNSWDRARVQRHLELLLRDLEDSRGATLNPWRKAQLLRVE  
GEVRALLEQLGSSGS

>sp|Q8WTT2|NOC3L\_HUMAN Nucleolar complex protein 3 homolog OS=Homo sapiens GN=NOC3L PE=1  
SV=1

MKARRNKKQIPFRKLIKTSKVKLENKLNKQFKQSTLKKYRKEQRKLRQAVKDAVSKK  
PIPLENPKEKRPGRKRIEEEEEEALPLDMDEDDLQMKDLGQRVSFLTRDLSSEPV  
HAKKRKHIERIIDKYEIPRTLQTAPEKELIHLLPIKDKSGIIPQTREKPVTDNKKDEEDQ  
EEERELEEEIIEDPIQELTIEEHLIERKKKLQEKMHIAALASAILSDPENNIKKLKELR  
SMLMEQDPDVAVTVRKLVIVSLMELFKDITPSYKIRPLTEAEKSTKTRKETQKLREFEEG  
LVSQYKFYLENLEQMVKDWKQRKLKKSNNVSLKAYKGLAEVAVKSLCELLVALPHNFHN  
NIIVLIVPLMNDMSKLI SEMCCEAVKKLQKQDKLGQASLGVIKVISGFVKGRNYEVRPEM

LKTFCLCRIKEVEVKDTEINPKPKFMTFKEKRKSLSRMQRKWKKAEEKLERELREAEA  
SESTEKKLKLHTETLNIVFVTYFRILKKAQRSPLLPVLEGLAKFAHLINVEFFDPLL  
LHTLIESGDLISYQESLHCVQTAFHILSGQGDVLNIDPLKFYTHLYKTLFKLHAGATNEGV  
EIVLQCLDVMLTKRRKQVSQQRALAFIKRLCTLALHVLNSSIGILATTRILMHTFPKTD  
LLDSESQGSVFLPELDEPEYCNAQNTALWELHALRRHYHPVQRFAAHLIAGAPSEGS  
GALKPELSRRSATELFEAYSMAEMTFNPPVESSNPKIKGKFLQGDSFLNEDLNQLIKRYS  
SEVATESPLDFTKYLKTSLH

>sp|Q9Y239|NOD1\_HUMAN Nucleotide-binding oligomerization domain-containing protein 1  
OS=Homo sapiens GN=NOD1 PE=1 SV=1

MEEQGHSEMEIIPSESHPHIQLKSNRELLVTHIRNTQCLVDNLLKNDYFSAEDAEIVCA  
CPTQPKVRKILDVLVQSKGEEVSEFFLYLLQQLADAYVDLRPWLEIGFSPSLLTQSKVV  
VNTDPVSRYTQQLRHHLGRDSKFVLCYAQKEELLLEEIYMDTIMELVGFSNESLGSLSNL  
ACLLDHTTGILNEQGETIFILGDAGVGKSMMLQRLQSLWATGRLDAGVKFFHFRCRMFS  
CFKESDRLCLQDLLFKHYCYPERPDEEVFAFLRRPHVALFTFDGLDELHSDLDLSRPD  
SSCPWEPAHPLVLLANLLSGLLKGASKLLTARTGIEVPRQFLRKKVLLRGFSPSHLRAY  
ARRMFPERALQDRLLSQLEANPNLCSLCSVPLFCWIIIFRCFQHFRAAFEGSPQLPDCTMT  
LTDVFLLVTEVHLNRMQPSLVQRNTRSPVETLHAGRDTLCSLGQVAHRGMEKSLFVFTQ  
EEVQASGLQERDMLGFLRALPELGPQGDQSYEFFHLTLQAFFTAFFLVLDLDRVGTQEL  
LRRFQEWMPAGAATTSCYPPFLPFQCLQSGPAREDLFKNKDHQFTNLFLCGLLSKAK  
QKLLRHLVPAALRRRKALWAHLFSSLRGYLKSLPRVQVESFNQVQAMPTFIWMLRCIY  
ETQSQKVGQLAARGICANYLKLTYCNACSDCSALSFVLHHPKRLALDLNNDYGV  
RELQPCFSRLTVLRLSVNQITDGGVKVLSEELTKYKIVTYLGLYNNQITDVGARYVTIL  
DECKGLTHLKLGNKITSEGGKYLALAVKNSKSISEVGMWGNQVGDGAKAFEAALRNHP  
SLTTLASNGISTEGGKSLARALQQNTSLEILWLTQNELNDEVAESLAEMLKVNQTLKH  
LWLIQNQITAKGTAQLADALQSNTGITEICLNGNLKPEEAKVYEDEKRIICF

>sp|Q9HC29|NOD2\_HUMAN Nucleotide-binding oligomerization domain-containing protein 2  
OS=Homo sapiens GN=NOD2 PE=1 SV=1

MGEEGGSASHDEEERASVLLGHSPGCEMCSQEAFAQRSQVLVLLVSGSLEGFESVLDWL  
LSWEVLSWEDYEGFHLLGQPLSHLARRLLDVTWNKGTWACQKLIAAQEAQADSQSPKLH  
GCWDPHSLHPARDLQSHRPAIVRRLHSHVENMLDLAWERGFSQYECDEIRLPIFTSPQR  
ARRLLDLATVKANGLAFLQHVQELPVPLALPLEAATCKKMAKLRTTVSAQSRFLSTY  
DGAETLCLEDIYTENVLEVWADVMAGPPQKSPATLGLEELFSTPGHLNDDADTVLVGE  
AGSGKSTLLQRLHLLWAAGQDFQEFLFVFPFSCRQLQCMAPLSVRTLLFEHCCWPDVGQ  
EDIFQLLLDHPDRVLLTFDGFDEFKFRFTDRERHCSPTDPTSQVTLNLLQGNLLKNAR  
KVVTSRPAAVSAFLRKYIRTEFNLKGFSEQGIELYLKRHHHEPGVADRLIRLLQETSALH  
GLCHLPVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLHATPPDSASQGLGPSLL  
RGRLPTLLHLGRLALWGLMCCYVFSAAQLQAAQVSPDDISLGLVRAKGVPVGPSTAPLE  
FLHITFCFFAAFYLAALSDVPPALLRHLFNCGRPGNSPMARLLPTMCIQASEGKDSSVA  
ALLQKAEPHNLIATAAFLAGLLSREHWGLLAECQTSEKALLRRQACARWCLARSLRKHFH  
SIPPAAPGEAKSVHAMPGFIWLRSLYEMQEERLARKAARGLNVGHLKLTFCVSGPTECA  
ALAFVLQHLRRPVALLQDYNVSGDIGVEQLLPCLGVCKALYLRDNNISDRGICKLIECAL  
HCEQLQKLALFNNKLTGCAHSMAKLLACRQNFALRLGNNYITAAGAQVLAEGLRGNTS  
LQFLGFWGNRVGDEGAQALAEALGDHQSRLWLSLVGNNIGSVGAQALALMLAKNVMLEEL  
CLEENHLQDEGVCSLAEGLKKNSSLKILKLSNNCITYLGAEALLQALERNDTILEVWLRG



NTFSLEEVDKLGCRDTRLLL

>sp|Q96S42|NODAL\_HUMAN Nodal homolog OS=Homo sapiens GN=NODAL PE=1 SV=2

MHAHCLPFLHAWWALLQAGAATVATALLRTRGQPSSPSPLAYMLSLYRDPLPRADIIRS  
LQAEDVAVDGQNWTFADFSSFLSQQEDLAWAELRLQLSSPVDLPTEGSLAIEIFHQPKPD  
TEQASDSCLERFQMDLFTVTLSQVTFSLGSMVLEVTRPLSKWLKHPGALEKQMSRVAGEC  
WPRPPTPATNVLLMLYSNLSQEQRQLGGSTLLWEAESSWRAQEGQLSEWGWKRHRRHHL  
PDRSQLCRKVKFQVDFNLIGWSWIIYPKQYNAYRCEGECNPVGEFHTNHAYIQSLL  
KRYQPHRVPSTCCAPVKTPLSMLYVDNGRVLLDHHKDMIVEECGCL

>sp|Q7Z5D8|NANGN\_HUMAN NANOG neighbor homeobox OS=Homo sapiens GN=NANOGNB PE=2 SV=1

MHRARWLTPVIPALWEAEAGRSRGQEIETILANKKQSAMPWDQDPEQSTGNYSEDEQNGK  
QKWREEGEAGRKREKEKEKNEKELQDEQENKRKRENEKQKQYPEKRLVSKSLMHTLWAK  
FKLNRCPTIQESLSLSEFEDMTHKQISQWFCRTRKKYNKEMSKRKHKKKHMRWRSLLCCQG  
WSRTPALK

>sp|Q8WY41|NANO1\_HUMAN Nanos homolog 1 OS=Homo sapiens GN=NANOS1 PE=1 SV=2

MEAFPWAPRSPRRGRAPPMALVPSARYVSAPGPAHPQPFSSWNDYLGATLITKAVDGE  
PRFGCARGNGGGGSPSSSSSSCCSPHTGAGPGALGPALGPPDYDEDDDDSDPEGSRG  
RYLGSALRLALELCAGPAEAGLLEERFAELSPFAGRAAAVLLGCAPAAAAAATTTSEAT  
PREERAPAWAAEPRLHAASGAAARLLKPELQVCVFCRNNKEAMALYTHILKGPDGRVL  
CPVLRRTCPCLCGASGNAHTIKYCPLSKVPPPPARPPPSARDGPPGKKLR

>sp|P60323|NANO3\_HUMAN Nanos homolog 3 OS=Homo sapiens GN=NANOS3 PE=1 SV=1

MGTFDLWTDYLGHLVRLASGKEGPETRLSPQPEPEPMLPDQKRSLESSPAPERLCSF  
CKHNGESRAIYQSHVLKDEAGRVLCPILRDYVCPQCGATRERAHTRRFCPLTGQGYTSVY  
SHTTRNSAGKKLVRPDKAKTQDTGHRGGGGGAGFRGAGKSESPSCSPSMST

>sp|Q9UHQ1|NARF\_HUMAN Nuclear prelamin A recognition factor OS=Homo sapiens GN=NARF PE=1  
SV=1

MKEHCTRKECSKTKTDDQENVADAPSPAQENGEKGEFHKLADAKIFLSDCLACDSM  
TAEEGVQLSQQNAKDFFRVLNLNKKCDTSKHKVLVSVCPQSLPYFAAKFNLSVTDASRR  
LCGFLKSLGVHYVFDTTIAADFSILESQKEFVRRYRQHSEERTLPMLTSACPGWVRYAE  
RVLGRPITAHLC TAKSPQQVMGSLVKDYFARQQNLSPEKIFHVIVAPCYDKKLEALQESL  
PPALHSGRGADCVLTSGEIAQIMEQGDLSVRDAVDTLFGDLKEDKVTRHDGASSDGH  
LAHIFRHA AKELFNEDVEEVTYRALRNKDFQEVTLKNGEVVLRFAAAYGFRNIQNMILK  
LKKGKFPFHVEVLACAGGCLNGRGAQTPDGHADKALLRQMEGIYADIPVRRPESSAHVQE  
LYQEWLEGINSKAREVLHTTYQSQERGTHSLDIKW

>sp|Q9BTE0|NAT9\_HUMAN N-acetyltransferase 9 OS=Homo sapiens GN=NAT9 PE=1 SV=1

MRLNQNTLLLGKKVVLVPYTSEHVPSRYHEWMKSEELQRLTASEPLTLEQEYAMQCSWQE  
DADKCTFIVLDAEKWQAQPGATEESCMVDVNLFLTDLEDLTIGEIEVMIAEPSCRKGL  
GTEAVLAML SYGVTTLGLTKFEAKIGQGNEPSIRMFQKLHFEQVATSSVFQEVTLRLTVS  
ESEHQWLLEQTSHVEEKPYRDGSAEPC

>sp|Q9UHQ9|NB5R1\_HUMAN NADH-cytochrome b5 reductase 1 OS=Homo sapiens GN=CYB5R1 PE=1 SV=1

MGIQTSPVLLASLGVGLVTLGLAVGSYLVRRSRRPVTLDPNEKYLLRLLDKTTVSHN  
TKRFRFALPTAHTLGLPVGKHIYLSRIDGSLVIRPYTPVTSDEDQGYVDLVIKVYLKG  
VHPKFPEGGKMSQYLDLKVGDVVEFRGPSGLLTYTGKGHFNIPNKKSPPEPRVAKKLG  
MIAGGTGITPMLQLIRAILKVPEDPTQCFLLFANQTEKDIILREDLEELQARYPNRFKLW  
FTLDHPPKDWAYSKGFVTADMIREHLPAPGDDVLVLLCGPPPMVQLACHPNLDKLGYSQK

MRFTY

>sp|P00387|NB5R3\_HUMAN NADH-cytochrome b5 reductase 3 OS=Homo sapiens GN=CYB5R3 PE=1 SV=3  
MGAQLSTLGHMVLFPVWFLYSLLMKLFQRSTPAITLESPIKYPLRLIDREIISHDTRRF  
RFALPSPQHILGLPVGQHIYLSARIDGNLVVRPYTPISSDDDKGFVDLVIKVYFKDTHPK  
FPAGGKMSQYLESMQIGDTIEFRGPSGLLVYQGGKFAIRPDKKSNIIRTVKSVGMIAG  
GTGITPMLQVIRAIMKDPDDHTVCHLLFANQTEKDILLRPELEELRNKHSARFKLWYTL  
RAPEAWDYGQGFVNEEMIRDHLPPPEEEPLVLMCGPPPMIYACLPLNDHVGHPTERC  
FV

>sp|Q8NFP9|NBEA\_HUMAN Neurobeachin OS=Homo sapiens GN=NBEA PE=1 SV=3

MASEKPGPGPLEPQPVGLIAVGAAGGGGGSGGGGTGGSGMGELRGASGSGSVMLPAGM  
INPSVPIRNIIRMKFAVLIGLIQVGEVSNRDIVETVLNLLVGGEFDLEMFIIQDAESITC  
MTELLEHCDVTCQAEIWSMFTAILRKSVRNLTSTEVGLIEQVLLKMSAVDDMIADLLVD  
MLGVLASYSITVKELKLLFSMLRGESGIWPRHAVKLLSVLNQMPQRHGPDTFFNPGCSA  
AAIALPPIAKWPYQNGFTLNTWFRMDPLNNINVDKDKPYLYCFRTSKGVGYSAHFVGNCL  
IVTSLKSKGKGFQHCVKYDFQPRKWMISIVHIYNRWRNSEIRCYVNGQLVSYGDMAHV  
NTNDSYDKCFLGSSETADANRVFCGQLGAVYVFSEALNPAQIFAIIHQLGPGYKSTFKFS  
ESDIHLAEHHKQVLYDGKLASSIAFTYNAKATDAQLCLESSPKENASIFVHSPHALMLQD  
VKAIVTHSIHSAIHSIGGIQVLFPLFAQLDNRQLNDSQVETTVCATLLAFLVELLKSSVA  
MQEQMLGGKGLVIGYLLEKSSRVHITRAVLEQFLSFAKYLDGLSHGAPLLKQLCDHILF  
NPAPIWIHTPAKVQLSLYTYLSAEFIGTATIYTTIRRVGTVLQMLHTLKYYYWVINPADSS  
GITPKGLDGRPSQKEIISLRAFMLFLKQLILKDRGVKEDELQSILNYLLTMHEDENIH  
DVLQLLVALMSEHPASMIPAFDQRNGIRVIYKLLASKSESIWVQALKVLGYFLKHLGHR  
KVEIMHTHSLFTLLGERLMLHTNTVTVTYNTLYEILTEQVCTQVVHKPHPEPDSTVKIQ  
NPMILKV VATLLKNSTPSAELMEVRRLFLSDMIKLFNSRENRRCLLQCSVWQDWMFSLG  
YINPKNSEEQKITEMVYNI FRILLYHAIKYEWGGWRVWVDTLSIAHSKVTYEAHKEYLAK  
MYEYQRQEEENIKKGKGNVSTISGLSSQTGAKGMEIREIEDLSQSQSPESETDYPV  
STDTRDLLMSTKVSDDILGNSDRPGSGVHVEVHDLLVDIKAEKVEATEVKLDDMDLSPET  
LVGGENGALVEVESLLDNVYSAAEVKLQNNVHGSVGIIKKNEEKDNGPLITLADEKEDLP  
NSSTSFLFDKIPKQEEKLLPELSSNHIIPNIQDTQVHLGVSDDLGLLAHMTGSVDLTCTS  
SIIEEKFKIHTTSDGMSSISERDLASSTKGLEYAEMTATLTETESSSSKIVPNIDAGSI  
ISDTERSDDGKESGKEIRKIQTITTTTQAVQGRSITQQDRDLRVDLGFRGMPMTEEQRQF  
SPGPRTTMFRIPEFKWSPMHRLLTDLLFALETDVHVWRSHSTKSVMDFVNSNENIIFVH  
NTIHLISQMV DNI IACGGILPLLSAATSPTGSKTELENIEVTQGMSAETAVTFLSRLMA  
MVDVLVFASSLNFEIEAEKNMSSGGLMRQCLRLVCCVAVRNCLECRQRQRDRGNKSSHG  
SSKPQEVPPSVTATAASKTPLENVPGNLSPIKDPDRLLQDVDINRLRAVVFRD VDDSKQA  
QFLALAVVYFISVLMVSKYRDILEPQRETTTSGSQPGRNIRQEINSPTSTVVVIPSIPHP  
SLNHGFLAKLIPEQSFHGSFYKETPAAFPDTIKEKETPTPGEDIQVESSIPHTDSGIGEE  
QVASILNGAELETSTGPDAMSELLSTLSSEVKKSQESLTENPSETLKPATSISSISQTKG  
INVKEILKSLVAAPVEIAECGPEPIPYDPALKRETQAILPMQFHSFDRSVVVPVKPPP  
GSLAVTTVGATTAGSLPTGSTSNIFAATGATPKSMINTTGAVDSGSSSSSSSSSVNGA  
TSKNLPAVQTVAPMPEDSAENMSITAKLERALEKVAPLLREIFVDFAPFLSRTLLGSHGQ  
ELLIEGLVCMKSSTSVELVMLLCSQEWQNSIQKNAGLAFIELINEGRLLCHAMKDHI  
VRVANEAEFILNRQRAEDVHKHAEFESQCAQYAADRREEEKMCDHLISA AKHRDHVTANQLK  
QKILNILT NKHGAWGAVSHSQLHDFWRLDYWEDDLRRRRRFVRNAFGSTHAEALLKAAIE

YGTEEDVVKSKKTFRSQAIVNQNAETELMLEGDDDAVSLLQEKEIDNLAGPVVLSTPAQL  
IAPVVVAKGTL SITTEIYFEVDEDDSAFKKIDTKVLAYTEGLHGKWMFSEIRAVFSRRY  
LLQNTALEVFMANRTSVMFNFPDQATVKKVYVSLPRVGVGTSYGLPQARRISLATPRQLY  
KSSNMTQRWQRREISNFEYLMFLNTIAGR TYNDLNQYPVPFWVL TNYESEELDLTPGNF  
RDLSKPIGALNPKRAVFYAERYETWEDDQSPPYHYNTHYSTATSTLSWLVRIEPFTTFFL  
NANDGKFDHPDRTFSSVARSWRTSQRDTSVKELIPEFYLPPEMFVNSNGYNLGVREDEV  
VVNDVDLPPWAKKPEDFVRINRMALESEFVSCQLHQWIDLIFGYKQRGPEAVRALNVFHY  
LTYEGSVNLD SITDPVLRAMEAQIQNFGQTPSQLLIEPHPPRSSAMHLCFLPQSPLMFK  
DQMQQDVIMVLKFPNSPVTHVAANTLPHLTIPAVVTVTCSRLFAVNRWHNTVGLRGAPG  
YSLDQAHHLPIEMDPLIANN SGVNKRQITDLVDQSIQINAHCFVVTADNRYILICGFWDK  
SFRVYSTETGKLTQIVFGHWVVTCLARSESYIGGDCYIVSGSRDATLLLWYWSGRHHI  
GDNPNSSDYPAPRAVLTGHDHEVVCVSVCAELGLVISGAKEGPCLVHTITGDLLRALEGP  
ENCLFPRLISVSSEGHCI IY YERGRFSNFSINGKLLAQMEINDSTRAILLSSDGQNLVTG  
GDNGVVEVWQACDFKQLYIYPGCDAGIRAMDLSHDQRTLITGMASGSIVAFNIDFNRWHY  
EHQNRV

>sp|P16435|NCPR\_HUMAN NADPH--cytochrome P450 reductase OS=Homo sapiens GN=POR PE=1 SV=2

MGDSHVDTSSTVSEAAEEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFTKIQTL  
TSSVRESSFVEKMKKTGRNII VFYGSQTGTAE EFANRLSKDAHRYGMRGMSADPEEYDLA  
DLSSLPEIDNALVFCMATYGE GPTDNAQDFYDWLQETD VDL SGVKFAVFGLGNKTYEH  
FNAMGKYVDKRLEQLGAQRIFELGLGDDGNLEEDFITWREQFWPAVCEHFGVEATGEES  
SIRQYELVVHTDIDA AKVYMGEMGR LKSYENQKPPFDAKNPFLAAVTNRKLNQGTERHL  
MHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVMSLNNLDEESNKKHP  
FPCPTSRYTALTYYLDITNPPRTNVLYELAQYASEPSEQELLRKMASSGEGKELYLSWV  
VEARRHILAILQDCPSLRPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAVVVEYET  
KAGRINKGVATNWLRAKEPAGENGGRALVPMFVRKSQFRLPFKATTPVIMVGP GTGVAPF  
IGFIQERAWLRQQGKEVGETLLYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQS  
HKVYVQHLLKQDREHLWKLIEGGAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVD  
YIKKLMTKGRYSLDVWS

>sp|O95944|NCTR2\_HUMAN Natural cytotoxicity triggering receptor 2 OS=Homo sapiens GN=NCR2  
PE=1 SV=2

MAWRALHPLLLLLLLFPGSQAQSKAQLQSVAGQTLTVRCQYPPTGSLYEKKGWCKEASA  
LVCIRLVTSSKPRTMAWTSRFTIWDDPDAGFFTVM TDLREEDSGHYWCRIYRPSDNSVS  
KSVRFYLVVSPASASTQTSWTPRDLVSSQTQTQSCVPPTAGARQAPESPSTIPVPSQPQN  
STLRPGPAAPIALVPVFCGLLVAKSLVLSALLVWWGDIWWKTM MELRSLDTQKATCHLQQ  
VTDLPWTSVSSPVEREILYHTVARTKISDDDEHTL

>sp|O43678|NDUA2\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2  
OS=Homo sapiens GN=NDUFA2 PE=1 SV=3

MAAAAASRGVGAKLGLREIRIHL CQRSPGSQGVRDFIEKRYVELKKANPDLPI LIRECSD  
VQPKLWARYAFGQETNVPLNNFSADQVTRALENVLSGKA

>sp|O00483|NDUA4\_HUMAN Cytochrome c oxidase subunit NDUFA4 OS=Homo sapiens GN=NDUFA4 PE=1  
SV=1

MLRQIIIGQAKKHPSLIPLFVFIGTGATGATLYLLRLALFNP DVCWDRNNPEPW NKLGPND  
QYKFYSVNVDYSKLKKERPDF

>sp|Q16795|NDUA9\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial OS=Homo sapiens GN=NDUFA9 PE=1 SV=2

MAAAQSRVVRVLSMSRSAITAIATSVCHGPPCRQLHHALMPHGKGRSSVSGIVATVFG  
ATGFLGRYVNVHLGRMGSVIIPYRCDKYDIMHLRPMGDLGQLLFLEWDARDKDSIRRVV  
QHSNVVINLIGRDWETKNFDFEDVFVKIPQAIAQLSKEAGVEKFIHVSHLNANIKSSSR  
LRNKAVGEKVVRDAFPEAIIVKPSDIFGREDRFLNSFASMHRFGPIPLGSLGWKTVKQPV  
YVVDVSKGIVNAVKDPDANGKSFAFVGPSRYLLFHLVKYIFAVAHRLFLPFPLPLFAYRW  
VARVFEISPFEPWITRDKVERMHITDMKLPHLPGLEDLGIQATPLELKAIEVLRRHRTYR  
WLSAEIEDVKPAKTVNI

>sp|O95299|NDUAA\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial OS=Homo sapiens GN=NDUFA10 PE=1 SV=1

MALRLKLAAATSASARVVAAGAQRVRGIHSSVQCKLRYGMWHFLGDKASKRLTERSRI  
TVDGNICTGKGLAKEIAEKLGFKFHPEAGIHYPDSTTGDKPLATDYNCSLEKFYDD  
PRSDGNSYRLQSWLYSSRLLQYSDALEHLLTTGQGVVLERSIFSDFVFLEAMYNQGFIR  
KQCVDHYNVKSVTICDYLPPHLVIYIDVPVPEVQRRIQKKGDPHEMKITSAYLQDIENA  
YKKTFLPEMSEKCEVLQYSAREAQDSKKVVEDIEYLKFDKGPWLKQDNRTLYHLRLLVQD  
KFEVLNYSIPIFLPEVTIGAHQTDRVLHQFRELPGRKYPGYNTEVGDKWIWLK

>sp|O95169|NDUB8\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial OS=Homo sapiens GN=NDUFB8 PE=1 SV=1

MAVARAGVLGVQLQASARNVMPLGARTASHMTKDMFPGPYRPTPEERAAAACKYNMRVE  
DYEPYPDDGMGYGDYPKLPDRSQHERDPWYSWDQPLRLNWGEPMHWHLDMYNRNRVDT  
PTPVSWHVMCMQLFGFLAFMIFMCWVGDVYPVYQPVGPKQYPYNNLYLERGGDPSKEPER  
VVHYEI

>sp|Q9NX14|NDUBB\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial OS=Homo sapiens GN=NDUFB11 PE=1 SV=1

MAAGLFGLSARRLLAAAATRGLPAARVRWESSFSRTTVAPSAGKRPPEPTTPWQEDPE  
PEDENLYEKNPDSHGDKDPVLDVWNMLVFFFGVSIILVLGSTFVAYLPDYRMKEWSRR  
EAERLVKYREANGLPIMESNCFDPSKIQLPEDE

>sp|O95298|NDUC2\_HUMAN NADH dehydrogenase [ubiquinone] 1 subunit C2 OS=Homo sapiens GN=NDUFC2 PE=1 SV=1

MIARRNPEPLRFLPDEARSPPPKLTDPRLLYIGFLGYCSGLIDNLIRRRPIATAGLHRQ  
LLYITAFFAGYYLVKREDYLYAVRDREMFYMKLHPEDFPEEDKKTGEIFEKHFPIR

>sp|Q9P032|NDUF4\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4 OS=Homo sapiens GN=NDUF4F4 PE=1 SV=1

MGALVIRGIRNFLENRAEREISKMKPSVAPRHPSTNSLLREQISLYPEVKGEIARKDEK  
LLSFLKDVYVDSKDPVSSLQVKAETCQEPKEFRLPKDHHFDMINIKSIPKGGKISIVEAL  
TLLNNHKLFPETWTAEKIMQEYQLEQKDVNSLLKYFVTFEVEIFPPEDKKAIRSK

>sp|Q330K2|NDUF6\_HUMAN NADH dehydrogenase (ubiquinone) complex I, assembly factor 6 OS=Homo sapiens GN=NDUF4F6 PE=1 SV=2

MAASAHGSVWGPLRLGIPGLCCRRPPLGLYARMRRLPGPEVSGRSVAAASGPGAWGTDHY  
CLELLRKRDEGYLCSLLLPAESRSSVFALRAFNVELAQVKDSVSEKTIGLMRMQFWKKT  
VEDIYCDNPPHQVAIELWKAVKRHNLTKRWLMKIVDEREKNLDDKAYRNIKELENYAEN  
TQSSLLYLTLEILGIKDLHADHAASHIGKAQGIVTCLRATPYHGSRRKVFLPMDICMLHG  
VSQEDFLRRNQDKNVRDVIYDIASQAHLHLKHARSFHKTVPVKAFPAFLQTVSLEDFLKK

IQRVDFDIFHPSLQQKNTLLPLYLIQSWRKTY

>sp|Q8NC96|NECP1\_HUMAN Adaptin ear-binding coat-associated protein 1 OS=Homo sapiens  
GN=NECAP1 PE=1 SV=2

MATELEYESVLCVKPDVSVYRIPPRASNRGYRASDWKLDQPDWTGRLRITSKGKTAYIKL  
EDKVSSELFAQAPVEQYPGIAVETVTDSRYFVIRIQDGTGRSAFIGIGFTDRGDAFDNF  
VSLQDHFVKWKQSEISESKESQEMDARPKLDLGFKEGQTIKLCIGNITNKKGGASKPRTAR  
GGGLSLLPPPPGGKVTIPPPSSVAISNHVTPPPIPKSNHGGSDADILLDLDSPAPVTP  
APTPVSVSNDLWGDFSTASSSVNPQAPQPSNWWQF

>sp|Q8NHV4|NEDD1\_HUMAN Protein NEDD1 OS=Homo sapiens GN=NEDD1 PE=1 SV=1

MQENLRFASSGDDIKIWDASSMTLVDFNPHTSPHGISSICWSSNNFLVTASSSGDKIV  
VSSCKCKPVPLLELAEGQKQTCVNLNSTSMYLVSGGLNNTVNIWDLKSKRVHRSKLDHKD  
QVTCVTYNWNCYIASGSLSGEILHSVTTNLSSTPFGHGSNQSVRHLKYSLFKKSLLGS  
VSDNGIVTLWDVNSQSPYHNFDVHKAPASGICFSPVNELLFVTIGLDKRIILYDTSSKK  
LVKTLVADTPLTAVDFMPDGATLAIGSSRGKIYQYDLRMLKSPVKTISAHKTSVQCIAFQ  
YSTVLTKSSLNKGCSNKPTTVNKRSVNVNAASGGVQNSGIVREAPATSIATVLPQPMSTA  
MGKGTAVAQEKAGLPRSINTDTLSKETDSGKNQDFSSFDDTGKSSLGDMFSPIRDDAVVN  
KGSDESIGKGDGDFLPQLNSVFPPRKNPVTSSSVLHSSPLNVFMGSPGKEENENRDLT  
AESKKIYMGKQESKDSFKQLAKLVTSGAESGNLNTSPSSNQTRNSEKFEKPENEIEAQLI  
CEPPINGSSTPNPKIASSVTAGVASSLSEKIADSIGNNRQNAPLTSIQIRFIQNMIEQTL  
DDFREACHRDIVNLQVEMIKQFHMQLNEMHSLRLERYSVNEGLVAEIERLREENKRLRAHF

>sp|O95631|NET1\_HUMAN Netrin-1 OS=Homo sapiens GN=NTN1 PE=1 SV=2

MMRAVWEALAALAACLVGAVRGGPGLSMFAGQAAQPDPCSDENGHPRRICIPDFVNAAF  
GKDVRVSSTCGRPPARYCVVSEGEERLRSCHLCNASDPKKAHPAFLTDLNPNHLTCW  
QSENYLQFPHNVTTLTSLGKKFEVTVVSLQFCSPRPESMAIYKSMDYGRTWVPFQFYSTQ  
CRKMYNRPHRAPITKQNEQEAUCTDSHTDMRPLSGGLIAFSTLDGRPSAHDFDNPSVLQD  
WVTATDIRVAFSRLHTFGDENEDDSELARDSYFYAVSDLQVGGRCCKNGHAARCVDRDD  
SLVCDCRHNTAGPECDRCKPFHYDRPWQRATAREANECVACNCNLHARRCRFMELYKLS  
GRKSGGVCLNCRHNTAGRHCHYCKEGYYRDMGKPITHRKACKACDCHPVGAAGKTCNQTT  
GQCPCKDGVGTITCNRCAKGYQQSRSPIAPCIKIPVAPPTAASSVEEPEDCDSYCKASK  
GKLKINMKKYCKDYAVQIHILKADKAGDWWKFTVNIISVYKQGTSRIRRGDQSLWIRSR  
DIACKCPKIKPLKKYLLGNAEDSPDQSGIVADKSSLVIQWRDTWARRLRKFQQREKKGK  
CKKA

>sp|Q9HB63|NET4\_HUMAN Netrin-4 OS=Homo sapiens GN=NTN4 PE=1 SV=2

MGSCARLLLLWGCTVVAAGLSGAVGVSSRCEKACNPRMGNLALGRKLWADTTGQNATEL  
YCFYSENTDLTCRQPKCDKCNAAYPHLAHLPSAMADSSFRFPRTWWQSAEDVHREKIQLD  
LEAEFYFTHLIVMFKSPRAAMVLDRSQDFGKTWKPYKYFATNCSATFGLEDDVVKKGA  
CTSKYSSFPCTGGEVIFKALSPPYDTENPYSKQVQELKITNLRVQLLKRQSCPCQRND  
LNEEPQHFTHYAIYDFIVKGSCFCNGHADQCIPVHGFRPVKAPGTFHVMVHGKCMCKHNTA  
GSHCQHCAPLYNDRPWEAADGKTGAPNECRTCKCNGHADTCHFDVNVWEASGNRSGGVCD  
DCQHNTGQYQCRCKPGFYRDLRRPFSAPDACKPCSCHPVGSAVLPANSVTFCDPSNGDC  
PCKPGVAGRRCDRCMVGYWGFWDYGCRCDCAGSCDPITGDCISSHTDIDWYHEVPDFRP  
VHNKSEPAWEDAQGFSALLHSGKCECKEQLGNAKAFCGMKYSYVLKIKILSAHDKGT  
HVEVNVKIKKVLKSTKLKIFRGKRTLYPESWTDRGCTCPILNPGLEYLVAGHEDI RTGKL  
IVNMKSFVQHWKPSLGRKVM DILKRECK

>sp|P56730|NETR\_HUMAN Neurotrypsin OS=Homo sapiens GN=PRSS12 PE=2 SV=2

MTLARFVLALMLGALPEVVGFDVSLNDSLHSHRHSPAGPHYYPYLPQTQRRPPRTRPPP  
PLPRFPRPPRALPAQRPHALQAGHTPRPHPWGCPAGEPWVSVTDFGAPCLRWAEPFPPLE  
RSPPASWAQLRGQRHNFCSRPDGAGRPWCFYGDARGKVDWGYCDRHSVRLRGKNEFE  
GTVEVYASGVWGTVCSSHWDDSDASVICHQLQLGGKGIKQTPFSGGLIPIYWSNVRCR  
GDEENILLCEKDIWQGGVCPQKMAAAVTCFSHGPFPFIIRLAGGSSVHEGRVELYHAGQ  
WGTVCDDQWDDADAIEVICRQLGLSGIAKAWHQAYFGEKSGPVMLDEVRCRGNELSIEQCP  
KSSWGEHNCGHKEDAGVSCTPLTDGVIRLAGGKGSHEGRLEVYRGQWGTVCDDGWTELN  
TYVVCRLGFKYKQASANHFESTGPIWLDDVSCSGKETRFLQCSRRQWGRHDCSHRED  
VSIACYPGGEGHRLSLGFPVRLMDGENKKEGRVEVFINGQWGTICDDGWDKDAAVICRQ  
LGYKGPARTMAYFGEKGPVHVDNVKCTGNERSLADCIKQDIGRHNCRHSEDAGVICD  
YFGKASGNSNKESSVCGRLRLHRRQKRIIGGKNSLRGGWPVQVSLRLKSSHGDGRLL  
CGATLLSSCWVLTAAHCFKRYGNSTRSYAVRVGDYHTLVPEEFEEEIGVQQIVIHREYRP  
DRSDYDIALVRLQGPEEQCARFSSHVLPACLPWRERPQTASNCYITGWGDTGRAYST  
LQQAIIPLLPKRFCERYKGRFTGRMLCAGNLHEHKRVDSCQGDGGPLMCERPGESWVV  
YGVTSWGYGCGVKDSPGVYTKVSAFVPWIKSVTKL

>sp|Q96EH8|NEUL3\_HUMAN E3 ubiquitin-protein ligase NEURL3 OS=Homo sapiens GN=NEURL3 PE=2 SV=2

MGAQLCFEANAAPREALRFHAEAKGAQVRLDTRGCIARRRTTFHDGIVFSQRPVRLGER  
VALRVLREESGWCGGLRVGFTRLDPAVSVPSLPPFLCPDLEEQSPTWAAVLPEGCALTG  
DLVRFVWDRRGCLFAKVNAGCRLLREGVPVGAPLWAVMDVYGTAKAIELLDPTASRLPT  
PMPWDLNKAPEPKATPGEECAICFYHAANTRLVPCGHTYFCRYCAWRVFSDTAKCPVC  
RWQIEAVAPAQGPALRVEEGS

>sp|Q96JN8|NEUL4\_HUMAN Neuralized-like protein 4 OS=Homo sapiens GN=NEURL4 PE=1 SV=2

MAAGSGSGSGSGGPGPGGGGGPSGSGSGSNGGLSGGELHPRTGRLVLSACGRT  
ARRQQPGQEFNHGLVLSREPLDRGVFTVRIDRKVNSWSGSIEIGVTALDPSVLDFPSSA  
TGLKGSWVVGCSVLDRGRSVLEEYQDLQLGEGDRVGVERTVAGELRLWVNGRDCGV  
AATGLPPRVWAVVDLYGKCTQITVLPPEPGFSPPTPIPTPPEPLAPTEDSALAEQGTSA  
DEAFMVSPAQARPETFPNSLESHNDFANMELSEVVSNTILSAYNGLLNVNLSSPPAGEG  
LGSSGAATSPILTSNDALLFHEKCGTLIKLSNNKTAERRRPLDEFNNGVMTNRPLRDN  
EMFEIRIDKLVDKWSGSIEIGVTTHNPNSLEYPATMTNLQSGTIMMSGGILTNGKGTRR  
EYCEFSDELQEGDHLGLTRKSNSALHFFINGIDQGVATPLTPPVVYGVVDLYGMAVKVT  
IVHNNHSDRLRRNAILRALSPGALRRAAPAAQAEPERLLFHPNCGQKAAITHEGRTA  
LRPHATDDFNHGVVLSRRALRDGEVFQVRIDKMVDKWAGSIEIGVTTHNPAYLQLPSTMT  
NLRSGTWMMTGNGVMHNGTTILDEYGHNLDRKAGDTVGVRREDGTLHFFVNGMTQGPA  
AWNVPVPGVYAVVDLYGQAAQATIVDDVEVAPVPELPEGNNQVSPSSPSSGAGGSDLRFH  
QLHGSAVITNGGRTALRHNCRSEFNDAIVISNRALRDGELFEIVIQKMVDRWSGSIEAG  
VTAIRPEDLEFPNTMTDIDYDTWMLSGTAIMQDGMTNRNNGCDLDALGTGARIGMMRTA  
KGDLYFINGQDQGAACSLPPGKEVYAVVDLYGQCVQVSITNATGPMDNSLATSNTATE  
KSFPLHSPVAGVAHRFHSTCGKNVTLEEDGTRAVRAAGYAHGLVFSTKELRAEEVFVKV  
EELDEKWAGSLRLGLTTLAPGEMGPGAGGGGGLPPSLPELRTKTTWMVSSCEVRDGGQL  
QRMNYGRNLERLVGVSRRVRRGADTMHILVDGEDMGPAATGIAKNVWAVLDLYGPVRG  
VSIVSSTRLEESEGTQPPSPSSDTGSEGEEDDEGEEHGLGGQNEVGIIPTTLEFLENHGK  
NILLSNGNRTATRVASYNQGIIVINQPLVPQLLVQVRIDFLNRQWTSSSLVLGVITCAPER

LNFPASACALKRAAWLLRGRGVFHNGLKICEKFGPNLDTCEGTILGLRLDSSGGLHLHV  
NGVDQGVAVPDVPQPCHALVDLYGQCEQVTIVNPEPGAASGKSAGTQGDMEKADMVDGIK  
ESVCWGPPPAASPLKSCYHALCSRFQELLLLPEDYFMPPPKRSLCYCESCRKLRGDEAH  
RRRGEPPREYALPFGWCRFNLRVNPRLEAGTLTKKWHMAYHGSNVAARRVLDRGELGAG  
TASILSCRPLKGEPGVGFEEPGENCAPPREEQPPPVLLSPSLQYAGAETLASKVQFRDPK  
SQRTHQAQVAFQVCVRPGSYTPGPPSAALGEPDPHFSPAELWVTKEKGATLLCALLVR  
VE

>sp|Q12968|NFAC3\_HUMAN Nuclear factor of activated T-cells, cytoplasmic 3 OS=Homo sapiens  
GN=NFATC3 PE=1 SV=1

MTTANCGAHDELDFKLVFGEAGAPAPPPGSRPADLEPDDCASIYIFNVDPPPSTLTTPPL  
CLPHHGLPSHSSVLSPSFQLQSHKNYEGTCEIPESKYSPLGGPKPFECPSIQITSISPNC  
HQELDAHEDDLQINDPEREFLERPSRDHLYLPLEPSYRESSLSPSPASSISSRSWFS  
SCESLSHIYDDVDSELNEAAARFTLGSPLTSPGGSPGGCPGEETWHQQYGLGHSLS  
PCHSPRSSVTDENWLSRPASGPSSRPTSPCGKRRHSSAEVCYAGSLSPHHSPVSPGHS  
PRGSVTEDTWLNASVHGGSGLGPVFPFQYCVETDIPLKTRKTSQAAILPGKLELCS  
DQGSLSPARETSIDDGLGSQYPLKKDSCGDQFLSVSPFTWSKPKPGHTPIFRTSSL  
DWPLPAHFQGCELKIEVQPKTHHRAHYETEGSRGAVKASTGGHPVVKLLGYNEKP  
INLQMFIGTADDRYLPHAFYQVHRITGKTIVATASQEI I IASTKVLEIPLPEN  
NMSASIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHIPQPSGKVL  
SLQIASIPVECSQRSQELPHIEKYSINSCSVNGGHEMVVTGSNFLPESK  
IIFLEKGGDGRPQWEVEGKIIREKCGGAHIVLEVPPYHNPAVTA  
AVQVHFYLCNGKRKKSQSRFTYTPVLMKQEHREEIDLSSVPSLPV  
PHPAQTQRPSSDSGCSHDSVLSGQRLICSIPQTYASMVTSSHL  
PQLQCRDESVSKEQHMIPSPIVHQPFQVTPTPVGVSSYQPMQTNV  
VYNGPTCLPINAASSQEFDSVLFQQDATLSGLVNLGCQPLSSIP  
FHSNSGSTGHLLAHTPHSVHTLPHLQSMGYHCSNTGQRLSSP  
VADQITGQPSSQLQPIITYGPHSGSATTASPAASHPLASSPLSGPP  
SPQLQPMPIYQSPSSGTA SSPSPATRMHSGQHSQAQSTGQGLSAP  
SSLICHSLCDPASFPDGTATSIKPEPEDREPNFATIGLQDITLDD  
VNEIIGRMSQISVSQGAGVSRQAPLSPESLDLGRSDGL

>sp|P08651|NFIC\_HUMAN Nuclear factor 1 C-type OS=Homo sapiens GN=NFIC PE=1 SV=2

MYSSPLCLTQDEFHPFIEALLPHVRAFAYTWFNLQARKRKYFKKHEK  
RMSKDEERAVKDELLGEKPEVKQKQWASRLAKLRKDIRPECREDFVLS  
ITGKKAPGCVLSNPDQKGKMRRIDCLRQADKVWRDLVMVILFKGI  
PLESTDGERLVKAAQCGHPVLCVQPHHIGVAVKELDLYLAYFVRER  
DAEQSGSPRTGMGSDQEDSKPITLDTDFQESFVTSGVFSVTELIQV  
SRTPVVTGTGPNFSLGELQGHAYDLNPASTGLRRTLPTSSSGSKRHK  
SGSMEEDVDTSPGGDYITSPSSPTSSSRNWTEDMEGGISSPVKKTE  
MDKSPFNPSPPQDSPRLSSFTQHHRPVIASVHSGIARSPHPSSALH  
FPTTILPQTASTYFPHTAIRYPHNLNPQDPLKDLVSLACDPASQQ  
PGPLNGSGQLKMPSHCLSAQMLAPPPGLPRLALPPATKPATTSEGG  
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>sp|Q14938|NFI1\_HUMAN Nuclear factor 1 X-type OS=Homo sapiens GN=NFI1 PE=1 SV=2

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RMSKDEERAVKDELLEGEKPEIKQKQWASRLAKLRKDIRPEFREDFV  
LITGKKPPCCVLSNPDQKGKIRRIDCLRQADKVWRDLVMVILFKGI  
PLESTDGERLYKSPQCSNPGLCVQPHHIGVTIKELDLYLAYFVHTP  
ESGQSDSNQGDADIKPLPNGHLSFQDCFVTSGVWVTELVRVSQTPV  
ATASGPNFSLADLESPLYNNINQVTLGRRSITSPPTSTTKRPKSID  
DSEMEPVDDVFYPTGRSPAAGSSQSSGWPNVDAGPASLKKSGKLD  
FCSALSSQGSPPMAFTHHPLPVLAGVRPG

SPRATASALHFPSTSI IQSSPYFTHPTIRYHHHHGQDSLKEFVQFVCSDGSGQATGQPN  
GSGQGKVPGSFLLPPPPVARPVPLPMPDSKSTSTAPDGAALTPSPSFATTGASSANRF  
VSI GPRDGNFLNIPQQSQSWFL

>sp|P19838|NFKB1\_HUMAN Nuclear factor NF-kappa-B p105 subunit OS=Homo sapiens GN=NFKB1  
PE=1 SV=2

MAEDDPYLGRPEQMFHLDPSLTHTIFNPEVFQPMALPTDGPYLQILEQPKQRGFRFRYV  
CEGSPSHGGLPGASSEKNKSYPQVKICNYVGPAKVIVQLVTNGKNIHLHAHSLVGKHCED  
GICTVTAGPKDMVVGAFANLGILHVTKKKFETLEARMTEACIRGYNPGLLVHPDLAYLQA  
EGGGDRQLGDREKELIRQAALQQTKEMDLSVVRMLMFTAFLPDSTGSFTRRLEPVVSDAIY  
DSKAPNASNLKIVRMDRTAGCVTGGEIYLLCDKVQKDDIQRIFYEEEEENGGVWEGFGDF  
SPTDVHRQFAIVFKTPKYKDINITKPASVVFVQLRRKSDLETSEPKPFLYYPEIKDKEEVQ  
RKRQKLMPNFSDFSFGGSGAGAGGGGMFGSGGGGGTGSTGPGYSFPHYGFPTYGGITFH  
PGTTKSNAGMKHGTMDTESKKDPEGCDKSDDKNTVNLFGKVIETTEQDQEPSEATVGNGE  
VTLTYATGTKEESAGVQDNLFLEKAMQLAKRHANALFDYAVTGDVKMLLAVQRHLTAVQD  
ENGDSVLHLAI IHLHSQVLVRDLLEVTSGLSDDI INMRNDLYQTPLHLAVITKQEDVVED  
LLRAGADLSLLDRLGNSVLHLAAKEGHDKVL SILLKHKAALLLDHPNGDGLNAIHLAMM  
SNSLPCLLLLVAAGADVNAQEKSGR TALHLAVEHDNISLAGCLLLEGAHVDSTTYDGT  
TPLHIAAGRGSTRLAALLKAAGADPLVENFEPLYDLDDSWENAGEDEGVVPGTTPLDMAT  
SWQVFDILNGKPYEPEFTSDDLLAQGDMKQLAEDVKLQLYKLEIPDPDKNWATLAQKLG  
LGILNNAFRLSPAPSKTLM DNYEVSGGTVRELVEALRQMGYTEAIEVIQAASSPVKTSQ  
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EGPLEGKI

>sp|Q8NBF2|NHLRC2\_HUMAN NHL repeat-containing protein 2 OS=Homo sapiens GN=NHLRC2 PE=1  
SV=1

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LEWLNTEEPISVYKDL CGKIVLDFFTYCCINCIHLLPDLHALEHTYSDKDGLLIIGVHS  
AKFPNEKVLDNIKSAVLRYNITHPMVNDADASLWQELEVSCWPTLVILGPRGNMLFSLIG  
EGHKDKLFLYTSIALKYKDRGQIRDNKIGIKLYKDSLPPSPLLFP GKVTVDQVTDRLVI  
ADTGHHRILVVWKNQIQYSIGGNPGRKDGIFSESTFNSPQGVAIMNNI IYVADTENHL  
IRKIDLEAEKVSTVAGIGIQGTDEKGAKGEQQPISSPWDVVFGTSGSEVQRGDILWIAM  
AGTHQIWALLDSGKL PKKNELTKGTCLRFAGSGNEENRN NAYPHKAGFAQPSGLSLASE  
DPWSCLFVADSESVRTVSLKDGAVKHLVGGERDPMNLFAGDVDGVGINAKLQHPLGV  
TWDKKRNLLYVADSYNHKIKVDPKTKNCTTLAGTGD TNNVTSSSFTESTFNEPGLCIG  
ENGELLYVADTNNHQIKVMDLET KMVSVLP IFRSENAVVDGPFLVEKQKTL PKLPKSAPS  
IRLSPVTACAGQTLQFKRLDLPSGSKL TEGVSSCWFLTAEGNEWLLQGQIAAGDIENIS  
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ELRYVF

>sp|Q9NX24|NHP2\_HUMAN H/ACA ribonucleoprotein complex subunit 2 OS=Homo sapiens GN=NHP2  
PE=1 SV=1

MTKIKADPDGPEAQAEACSGERTYQELLVNQNPIAQPLASRRLTRKLYKCIKKAVKQKQI  
RRGVKEVQKFVNKGEKGIMVLAGDTLPIEVYCHLPVMCEDRNLPYVYIPSKTDLGAAAGS  
KRPTCVIMVKPHEEYQEAYDECLEEVQSLPLPL

>sp|Q5T2W1|NHRF3\_HUMAN Na(+)/H(+) exchange regulatory cofactor NHE-RF3 OS=Homo sapiens  
GN=PDZK1 PE=1 SV=2



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VFVDKEEHMQVVDLVRKSGNSVTLLVLDGDSYEKAVKTRVDLKELGQSQKEQGLSDNLS  
PVMNGGVQWTWTPRLCYLVKEGGSYGFSKTVQGKKGVYMTDITPQGVAMRAGVLADDHL  
IEVNGENVEDASHEEVVEKVKKSGSRVMFLVDKETDKRHVEQKIQFKRETASLKLLPHQ  
PRIVEMKKGSNGYGFYLRAGSEQKGQIIKDIDSGSPAEEAGLKNNDLVAVNGESVETLD  
HDSVVMIRKGGDQTSLLVVDKETDNMYRLAHFSPFLYYQSQELPNGSVKEAPAPTPTSL  
EVSSPPDTEEVDPKPKLCRLAKGENGYGFHLNAIRGLPGSFIKEVQKGGPADLAGLEDE  
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>sp|Q9BZQ8|NIBAN\_HUMAN Protein Niban OS=Homo sapiens GN=FAM129A PE=1 SV=1

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AGGKVLTSSEYNNLSDRHFPDPLASSEKENTQPFVVLKPEFPVYLWQPFRRHGYFCFHE  
AADQKRFSALLSDCVRLNHDYMKQMTFEAQAFLEAVQFFRQEKGHYGSWEMITGDEIQI  
LSNLVMEELLPTLQTDLLPKMKGKKNDKRKRWLGLLEEAYTLVQHVSSEGLSALKEECRA  
LTKGLEGTIRSDMDQIVNSKNYLIGKIKAMVAQPAEKSCLESVQPFLASILEELMGPVSS  
GFSEVRVLFKEVNEVSQNFQTTKDSVQLKEHLDRMLNPLHSVKMEPCYTKVNLLHERL  
QDLKSRFRPHIDLVVQRTQNYMQELMENAVFTFEQLLSPHLQGEASKTAVAIKVKLRV  
LKQYDYDSSTIRKKIFQEALVQITLPTVQKALASTCKPELQKYEQFIFADHTNMIHVENV  
YEEILHQILLDETLKVIKEAAILKKNLFDENMALPSESVSSLTDLKPPTGSNQASPARR  
ASAILPGVLGSETLSNEVFQSEEEKQPEVPSSLAKGESLSLPGSPPPDGTEQVIISRV  
DDPVVNPVATEDTAGLPGTCSSELEFGGTLEDEEPAQEEPEPITASGLKALRKLLTASV  
EVPVDSAPVMEEDTNGESHVPQNEEEEEKEPSQAAAIIHPDNCEESEVSEREAQPPCPEA  
HGEELGGFPEVGSPASPPASGGLTEEPLGPMEGELPGEACTLTAHEGRGKCTEEDASQ  
QEGCTLGSDPICLSQVSEEQEEMGGQSSAAQATASVNAEEIKVARIHECQWVVEDAPN  
PDVLLSHKDDVKEGEGGQESFPELPSEE

>sp|Q15784|NDF2\_HUMAN Neurogenic differentiation factor 2 OS=Homo sapiens GN=NEUROD2 PE=2  
SV=2

MLTRLFSEPGLLSDVPKFASWGDGEDDEPRSDKGDAPPPPPAPGPGAPGPARAAKPVPL  
RGEEGTEATLAEVKEEGELGGEEEEEEEEGLDEAAGERPKKRGPKKRKMTKARLERSK  
LRRQKANARERNRMHDLNAALDNLKVVPCYSKTQKLSKIETLRLAKNYIWALSEILRSG  
KRPDLVSYVQTLCKGLSQPTTNLVAGCLQLNSRNFLTEQGADGAGRFHGSGGPFAMHPYP  
YPCSRLAGAQCQAAGGLGGGAHALRTHGYCAAYETLYAAAGGGASPDYNSSEYEGPLS  
PPLCLNGNFSLKQDSSPDHEKSYHYSMHYSALPGSRPTGHGLVFGSSAVRGGVHSENLLS  
YDMLHLHHDGRGPMYEELNAFFHN

>sp|P56597|NDK5\_HUMAN Nucleoside diphosphate kinase homolog 5 OS=Homo sapiens GN=NME5  
PE=1 SV=1

MEISMPPPQIYVEKTLAIKPDIVDKEEIQDIILRSGFTIVQRRKLRLSPEQCSNFYVE  
KYGKMFFPNLTAYMSSGPLVAMILARHKAIYWLELLGPNNSLVAKETHPDSLRAIYGTD  
DLRNALHGSNDFAAAEREIRFMFPEVIVEPIPIGQAAKDYLNHIMPTLLEGLTELCKQK  
PADPLIWLADWLLKNPNPKLCHHPIVEEPPY

>sp|P15531|NDKA\_HUMAN Nucleoside diphosphate kinase A OS=Homo sapiens GN=NME1 PE=1 SV=1

MANCERTFIAIKPDGVQRGLVGEIIRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPF  
FAGLVKYMHSGBPVMVWEGLVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGS

DSVESAEKEIGLWFHPEELVDYTSCAQNWIYE

>sp|000746|NDKM\_HUMAN Nucleoside diphosphate kinase, mitochondrial OS=Homo sapiens  
GN=NME4 PE=1 SV=1

MGGLFWRSLRGLRCGRAPGPSLLVRHGSGGPSWTRERTLVAVKPDGVQRRLVGDVIQR  
FERRGFTLVGMKMLQAPESVLAEHYQDLRRKPFYPALIRYMSSGPVAMVWEGYNVVRAS  
RAMIGHTDSAEAAPGTIRGDFSVHISRNVIHASDSVEGAQREIQLWFSSELVSWADGGQ  
HSSIHPA

>sp|Q8TB73|NDNF\_HUMAN Protein NDNF OS=Homo sapiens GN=NDNF PE=1 SV=2

MVLLHWCLLWLLFPLSSRTQKLPTRDEELFQMQIRDKAFFHDSSVIPDGAIESSYLFRDT  
PKRYFFVVEEDNTPLSVTVTPCDAPLEWKLSLQELPEDRSGEKSGDLEPLEQQKQIINE  
EGTELSYKGNDEYFIFSSSSPSGLYQLDLLSTEKDTDFKQVYATTTPESDQPYPELPYDP  
RVDVTSLGRTTTLAWKPSPTASLLKQPIQYCVVINKEHNFKSLCAVEAKLSADDAFMMA  
PKPGLDFSPFDFAHFGFSPDNSGKERSFQAKPSPKLGRHVSRPKVDIQKICIGNKNIFT  
VSDLKPDQYFYDFVFNINSNMSTAYVGTARTKEEAKQKTVELKDGIKIDVFVKRKA  
KFLRFAPVSSHQKVTFFIHSCLDAVQIQVRRDGKLLLSQNEGIQQFQLRGKPKAKYLVR  
LKGNKKGASMLKILATTRPTKQSFPSLPEDTRIKAFDKLRTCSSATVAWLGTQERNKFCI  
YKKEVDDNYNEDQKKREQNQLGPDIRKSEKVLCKYFHSQNLQKAVTTETIKGLQPGKS  
YLLDVYVIGHGHSVKYQSKVVKTRKFC

>sp|095167|NDUA3\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3  
OS=Homo sapiens GN=NDUFA3 PE=1 SV=1

MAARVGAFLKNAWDKEPVLVVSFVVGGLAVILPPLSPYFKYSVMINKATPYNYPVPRDD  
GNMPDVPSHPQDPQGPSLEWLKKL

>sp|Q16718|NDUA5\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5  
OS=Homo sapiens GN=NDUFA5 PE=1 SV=3

MAGVLKKTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVK  
AEPDVKKLEDQLGGGLEEVILQAEHELNLARKMREWKLWEPLVEPPADQWKWPI

>sp|043676|NDUB3\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3 OS=Homo  
sapiens GN=NDUFB3 PE=1 SV=3

MAHEHGHEHGHKMLPDYRQWKIEGTPLETIQKKLAAKGLRDPWGRNEAWRYMGGFAKS  
VSFSDVFFKGFKGFAAFVAVGAEYYLESLNKDKKHH

>sp|095139|NDUB6\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6 OS=Homo  
sapiens GN=NDUFB6 PE=1 SV=3

MTGYTPDEKLRLQLRELRRRWLKDQELSPREPVLPQKMGPMKFWNKFLENKSPWRKM  
VHGYYKKSIFVFTHLVPVWIIHYMKYHVSEKPYGIVEKKSRIFFGDTILETGEVIPP  
KEFPDQHH

>sp|Q9Y6M9|NDUB9\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9 OS=Homo  
sapiens GN=NDUFB9 PE=1 SV=3

MAFLASGPYLTHQQVLRLYLKRALRHLESWCVRQDKYRYFACLMRARFEEHKNEKDMAKA  
TQLLKEAEEEFWYRQHPQPYIFPDSPGGTSYERYDCYKVPWCLDDWHPSEKAMYPDYFA  
KREQWKKLRRESWEREVKQLQEETPPGGPLTEALPPARKEGDLPLWWYIVTRPRERPM

>sp|Q5TEU4|NDUF5\_HUMAN Arginine-hydroxylase NDUF5, mitochondrial OS=Homo sapiens  
GN=NDUF5 PE=1 SV=1

MLRPAGLWRLCRRPWAARVPAENLGRREVTSVSPRGSTSPRTLNIFFDRDLKRKQKNWAA  
RQPEPTKFDYLNKEEVGSRIADRVYDIPRNFPLALDLGCGRGYIAQYLNKETIGKFFQADI

AENALKNSSETEIPTVSVLADEEFLLPFKENTFDLVVSSLSLHWVNDLPRALEQIHYILKP  
DGVFIGAMFGGDTLYELRCSLQLAETEREGGFSPHISPFTAVNDLGHLLGRAGFNTLTVD  
TDEIQVNYPGMFELMEDLQGMGESNCAWNRKALLHRDTMLAAAAYREMYRNEDGSPAT  
YQIYYMIGWKYHESQARPAERGSATVSFGELGKINNLMPPGKKSQ

>sp|075380|NDUS6\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 6,  
mitochondrial OS=Homo sapiens GN=NDUFS6 PE=1 SV=1  
MAAAMTFCRLNRCGEAARSLPLGARCFGVRVSPTGEKVTHTGQVYDDKDYRRIRFVGRQ  
KEVNENFAIDLIAEQPVSEVETRVACDGGGGALGHPKVYINLDKETKTGTCGYCGLQFR  
QH HH

>sp|Q96SB3|NEB2\_HUMAN Neurabin-2 OS=Homo sapiens GN=PPP1R9B PE=1 SV=2  
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FLQMGTTAGPSGEAGGGAGLAEAPRASERGVRLSLPRASSLNENVDSALLKLGTSVSER  
VSRFDSKPAPSAQAPPPPHPSRLQETRKLERSAPAAGGDKEAARRLLRQERAGLQDRK  
LDVVVRFNNGSTEALDKLDADAVSPTVSQLSAVFEKADSRTGLHRGPGLPRAAGVPQVNSK  
LVSKRSRVFQPPPPPPAPSGDAPAEKERCPAGQQPPQHRVAPARPPPKPREVRKIKPVE  
VEESGESEAESAPGEVIAEVTVHAALENGSTVATAASPAPEEPKAQAAPEKEAAAVAPP  
ERGVGNGRAPDVAPEEVDSEKEDFSEADLVDSAYSGLGEDSAGSALEEDDEDEEDGE  
PPYEPESGCVEIPGLSEEDPAPSRKIHSTAPIQVFSTYSNEDYDRRNEDVDPMAASAE  
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RWQREMMEQRYAQYGEDDEETGEYATDEDEELSPTFPGGEMAIIEVFELAENEDALSPVDM  
EPEKLVHKFKELQIKHAVTEAEIQQLKRKLQSLEQEKGRWRVEKAQLEQSVENKERMEK  
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>sp|P20929|NEBU\_HUMAN Nebulin OS=Homo sapiens GN=NEB PE=1 SV=5  
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KSDFTNWMKGIGWVPIESLEVEKAKKAGEILSEKKYRQHPEKLKFTYAMDTMEQALNKS  
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DAIA IKAARASRDIASDYKYKKAYEQAKGKHIGFRSLEDDPKLVHFMQVAKMQSDREYK  
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>sp|P16519|NEC2\_HUMAN Neuroendocrine convertase 2 OS=Homo sapiens GN=PCSK2 PE=2 SV=2

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>sp|Q7Z6G3|NECA2\_HUMAN N-terminal EF-hand calcium-binding protein 2 OS=Homo sapiens  
GN=NECAB2 PE=1 SV=1

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>sp|Q99608|NECD\_HUMAN Necdin OS=Homo sapiens GN=NDN PE=2 SV=1

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>sp|P51955|NEK2\_HUMAN Serine/threonine-protein kinase Nek2 OS=Homo sapiens GN=NEK2 PE=1  
SV=1

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TLALKECHRRSDGGHTVLHRDLKPANVFLDGKQNVKLGDFFGLARILNHDTSFAKTFVGT  
YYMSPEQMNRMSYNEKSDIWSLGCLLYELCALMPPTAFSQKELAGKIREGKFRRIPIRY  
SDELNEIITRMLNLKDYHRPSVEEILENPLIADLVADEQRRNLERRGRQLGEPEKSQDSS  
PVLSELKLKEIQLQERERALKAREERLEQKEQELCVRERLAEDKLARAENLLKNYSLKE  
RKFLSLASNPPELLNPSSVIKKKVHFSGESKENIMRSENSESQTSKSKCKDLKKRLHAA  
QLRAQALSDIEKNYQLKSRQILGMR

>sp|060524|NEMF\_HUMAN Nuclear export mediator factor NEMF OS=Homo sapiens GN=NEMF PE=1 SV=4

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NIVLTDYEYVILNILRFRTDEADDVKFAVRERYPLDHARAAEPLTLERLTEIVASAPKG  
ELLKRVLNPLLPYPALIEHCLENGFSGNVKVDEKLETKDIEKVLVSLQKAEDYMKTTS  
NFSGKGYIIQKREIKPSLEADKPVEDILTYEEFHPFLFSQHSQCPYIEFESFDKAVDEFY  
SKIEGQKIDLKALQQEKQALKKLDNVRKDHENRLEALQQAQEI DKLKGELIEMNLQIVDR  
AIQVRSALANQIDWTEIGLIVKEAQAQGPVASA IKELKLQTNHVTMLLRNPYLLSEEE  
DDDVDGDVNVEKNETEPPKGKKKKQKNKQLQKPQKNKPLLVDVLSL SAYANAKKYDHK  
RYAAKTQKTVEAAEKAFKSAEKKTKQTLKEVQTVTSIQKARKVYWFEKFLWFISSENYL  
IIGGRDQQQNEIIIVKRYLTPGDIYVHADLHGATSCVIKNPTGEPPIPRTLTEAGTMALCY  
SAAWDARVITSAAWVYHHQVSKTAPTGEYLTGSGFMIRGKNFLPPSYLMMGFSFLFKVD  
ESCVRHQGERKVRVQDEDMETLASCTSELI SEEMEQLDGGDTSSDEKKEEHETPVEVEL  
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TIDLHLQPPRSIQKLASKEESSNSSDSKSSRRHLSAKERREMKKKKLPDSGDLEALE  
GKDKEESTVHIETHQNTSKNVAAPQPMKRGQKSKMKMKMEKYKDQDEEDRELIMKLLGS  
AGSNKEEKGGKGGKGTDEPVKKQPPKPRGGQVRSDNIKKETPFLEVI THELQDFAVDD  
PHDDKEEQDLQGGNEENLFDSLTGQPHPEDVLLFAIPICAPYTTMTNYKYKVKLTPGVQ  
KKGKAAKTALNSFMHSKEATAREKDLFRSVKDTDL SRNIPGKVKVSAPNLLNVKRK

>sp|Q9UMS0|NFU1\_HUMAN NFU1 iron-sulfur cluster scaffold homolog, mitochondrial OS=Homo sapiens GN=NFU1 PE=1 SV=2

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IQTQDTPNPNSLKFIPGKPVLETRTMDFTPAAAFRSPLARQLFRIEGVKS VFFGPDFIT  
VTKENEELDWNLKPDIIYATIMDFFASGLPLVTEETPSGEAGSEEDDEVVAMIKELLDTR  
IRPTVQEDGGDVIYKGFEDGIVQLKLQGSCTSCPSSIITLKNGIQNMLQFYIPEVEGVEQ  
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>sp|Q12986|NFX1\_HUMAN Transcriptional repressor NF-X1 OS=Homo sapiens GN=NFX1 PE=1 SV=2

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PYDEISAVHQHSYHPSGSKPKSQQTSFQSSPCNKSPKSHGLQNQPWQKL RNEKHHIRVKK  
AQSLAEQTSDTAGLESSTRSESGTDLREHSPSESEKEVVGADPRGAKPKKATQFVYSYGR  
GPKVKGLKCEWSNRTPKPEDAGPESTKPVGVFHPDSSEASSRKGVL DGYGARRNEQRR  
YPQKRPPWEVEGARPRGRNPPKQEGHRHTNAGHRNNMGPIPKDDLNERPAKSTCDS ENL  
AVINKSSRRVDQEKCTVRRQDPQVSPFSRGKQNHVLKNVETHTGSLIEQLTTEKYE CMV  
CCELVRVTAPVWSCQSCYHVFHLNCIKKWARSPASQADGQSGWRCPACQNVSAHVPNTYT  
CFCGKVKNPEWSRNEIPHSCGEVCRKKQPGQDCPHSCNLLCHPGCPPCPAFMTKTCECG  
RTRHTVRCGQAVSVHCSNPCENILNCGQHQAELCHGGQCQPCQIILNQVCYCGSTSRDV  
LCGTDVGKSDGFGDFSCLKICGKDLKCGNHTCSQVCHPQPCQCPRLPQLVRCCPCGQTP  
LSQELLELGSSSRKTCMDPVPSGKVCCKPLPCGSLDFIHTCEKLCHEGDCGPCSRTSVIS  
CRCSFRTKELPCTSLKSEDATFMDKRCNKKRLCGRHKCNEICCV DKEHKCPLICGRKLR  
CGLHRCEEPCHRGNCQTCWQASFDEL TCHCGASVIYPPVPCGTRPPECTQT CARVHECDH  
PVYHSCHSEEKCPCTFLTQKWC MGKHEFRSNIPCHLVDISCGLPCSATLPCGMH KCQRL  
CHKGECLVDEPCKQPCTTPRADCGHPCMAPCHTSSPCPV TACKAKVELQCECGRRKEMVI  
CSEASSTYQRIAAISMASKITDMLGGSVEISKLITKKEVHQARLECDEEC SALERKKRL

AEAFHISEDSDPFNIRSSGSKFSDSLKEDARKDLKFVSDVEKEMETLVEAVNKGKNSKKS  
HSFPPMNRDHRRRIHDLAQVYGLESVSYDSEPKRNVVVTAIRGKSVCPPTTLTGVLEREM  
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>sp|Q8NEJ9|NGDN\_HUMAN Neuroguidin OS=Homo sapiens GN=NGDN PE=1 SV=1

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SLSENDPLRFKPHPSNMMSKLSSEDEEEDEAEDDQSEASGKSKVGVSCKYVPPRLVPVH  
YDETEAEREKKRLERAKRRALSSSVIRELKEQYSDAPEEIRDARHPHVTRQSQEDQHRIN  
YEESMMVRLSVSKREKGRRRKRANVMSSQLHSLTHFSDISALTGGTVHLEDEDQNPICKRKK  
IPQKGRKKKGFRRRR

>sp|Q6VVB1|NHLRC1\_HUMAN E3 ubiquitin-protein ligase NHLRC1 OS=Homo sapiens GN=NHLRC1 PE=1  
SV=2

MAAEASESGPALHELMREAEISLLECKVCFEKFGRHQRRPRNLSCGHVVCLACVAALAH  
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GGWGTLVNPTGLALCPKTGRVVVVDGRRRVKIFDSGGGCAHQFGEKGDAAQDIRYPVDV  
TITNDCHVVVTDAGDRSIKVFDFGQIKLVIGGQFSLPWGVETTPQNGIVVTDAAEAGSLH  
LLVDVFAEGLRRLERLQAHLNPRGVAVSWLTGAIAVLEHPLALGTGVCSTRVKVFSSS  
MQLVGQVDTFGLSLYFPSKITASAVTFDHQGNVIVADTSGPAILCLGKPEEFPVPKPMVT  
HGLSHPVALTFTKENSLLVLDTASHSIKVYKVDWG

>sp|Q9BSH3|NICN1\_HUMAN Nicotin-1 OS=Homo sapiens GN=NICN1 PE=2 SV=1

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RVRQYTSHTPAKWVTCRLDYCLMPDPHSEEGAQEYVSLFKHQMLCDMARISELRILRQ  
PSPLWLSFTVEELQIYQQGPKSPSVTFPKWLSHPVPCEQPALLREGLPDPSRVSSVQQM  
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>sp|Q7RTP0|NIPA1\_HUMAN Magnesium transporter NIPA1 OS=Homo sapiens GN=NIPA1 PE=1 SV=1

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TSYLTDIVWWAGTIAMAVGQIGNFLAYTAVPTVLVTPVPLGALGVPGSILASYLLKEKLN  
LGKLGCLLSCAGSVVLIHSPKSESVTTQAELEEKLTPVVFVGYLCIVLLMLLLIFWIA  
PAHGPTNIMVYISICSLLSFTVPSTKGIGLAAQDILHNNPSSQRALCLCLVLLAVLGCS  
IIVQFRYINKALECFDSSVFGAIYVVFTTLVLLASAILFREWSNVGLVDFLGMACGFTT  
VSVGIVLIQVFKEFNFLGEMNKSNMKT

>sp|Q6KC79|NIPBL\_HUMAN Nipped-B-like protein OS=Homo sapiens GN=NIPBL PE=1 SV=2

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MMMSQYKLSQNSMHSSPASSNYQTTISHSPSSRFVPPQTSSGNRFMPQQNSPVSPYAP  
QSPAGYMPYSHPSSTYTHPQMQQASVSSPIVAGGLRNIDNKVSGPLSGNSANHHADNPR  
HGSSDYLMHVHRLSSDDGDSSTMRNAASFPLRSPQPVCSAGSEGTPKGSRPPLILQSQ  
SLPCSSPRDVPPDILLDSPEKQKQKQKMKLGKDEKEQSEKAAMYDIISSPSKDSTKLTL  
RLSRVRSSDMDQQEDMISGVENSNVSENDIPFNVQYPGQTSKTPITPQDINRPLNAAQCL  
SQQEQTAFLPANQVPVLQQNTSVAAKQPQTSVVQNQQQISQQGIYDEVELDALAEIERI  
ERESAIERERFSKEVQDKDKPLKKRKQDSYPQEAGGATGGNRPASQETGSTGNGSRPALM  
VSIDLHQAGRVDSQASITQDSDSIKKPEEIKQCNDAPVSVLQEDIVGSLKSTPENHPETP  
KKKSDPELSKSEMKSQESRLAESKPENRNLVETKSENKLETKVETQTEELKQNESRTTE  
CKQNESTIVEPKQENRNLSDTKPNDNKQNNGRSETTKSRPETPKQKGESRPETPKQKSDG



HPETPKQKGDGRPETPKQKGESRPETPKQKNEGRPETPKHRHDNRDSCGPSTEEKPEVS  
KHKQDTKSDSPRLKSERAEALKQRPDGRSVSESLRRDHDNKQKSDDRGESERHRGDQSRV  
RRPETLRSSSRNEHGIKSDSSKTDKLERKHRHESGDSRERPSSGEQKSRPDSPRVKQGDS  
NKSRSDKLGFKSPTSDDKRTTEGNSKVDTNKAHPDNKAEFPSYLLGGRSGALKNFVIPK  
IKRDKDGNVTQETKKMEMKGEPKDKVEKIGLVEDLNKGAKPVVVLQKLSLDDVQKLIKDR  
EDKSRSCLKPIKNKPSKSNKGSIDQSVLKELPPELLAEIESTMPLCERVKMNRKRSTVN  
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SGGGRYRNRSPSDSDMEDYSPPPSLSEVARKMKKKEKQKKRKAYEPKLTPEEMDSSTFK  
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VVHLPSEKDSNAEEDSNKKIDQDVVITNSYETAMRTAQNFLSIFLKKCGSKQGEEDYRP  
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RKDAVTSKMDQGSIERILKQVSGGEDEIQQLQKALLDYLDENTETDPSLVFSRKFYIAQW  
FRDTTLETEKAMKSQKDEESSEGHHAKEIETTQIMHRAENRKKFLRSIIKTTPSQFST  
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GISVRKRVIKILRDICIEQPTFPKITEMCVKMIRRVNDEEGIKKLVNETFQKLWFTPTPH  
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FMVICNVAKILELVVPLMEHPSETFLATIEEDLMKLI IKYGMTVVQHCVSCLGAVVNKVT  
QNFKFVWACFNRYGAI SKLKSQH QEDPNNTSLLTNKPALLRSLFTVGALCRHFDLED  
FKGNSKVNIDKQVLELLMYFTKHSDEEVQTKAII GLGFAFIQHPSLMFEQEVKNLYNNIL  
SDKNSSVNLKIQVLKNLQTYLQEEEDTRMQQADRDWKKVAKQEDLKEMGDVSSGMSSSIMQ  
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GNRQHRRAFLISLLNLFDDTAKTDVTMLLYIADNLACFPYQTQEEPLFIMHHIDITLSVS  
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SVMKCLPENSAPLIEFANVSQGILLMLKQHLKNLCGFSDSKIQKYSPPESAKVYDKAI  
NRKTGVHFHPKQTLDFLRSDMANSKI TEEVKRSIVKQYLDKLLMEHLDPEEEEEGEVS  
ASTNARNKAITSLLGGGSPKNNTAAETEDDESDEDRGGGTSGSLRRSKRNSDSTELAAQ  
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>sp|Q9Y2I1|NISCH\_HUMAN Nischarin OS=Homo sapiens GN=NISCH PE=1 SV=3

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VAERKIDKNLLPPKKIIGKNSRSLVEKREKDLEVYLQKLLAAFPVTPRVLAHFLHFHFY  
EINGITAALAEELFEKGEQLLGAGEVFAIGPLQLYAVTEQLQQGKPTCASGDAKTDLGHI  
LDFTCRLKYLKVSGETGPFGTSNIQEQLLPFDLSIFKSLHQVEISHCDAKHIRGLVASKP  
TLATLSVRFSATSMKEVLVPEASEFDEWEPEGTTLEGPVTAIPTWQALTTLDLSHNSVS  
EIDESVKLIPKIEFLDLSHNGLLVVDNLQHLYNLVHLDLSYNKLSLEGLHTKLGNIKTL  
NLAGNLESLSGLHKLYSLVNLDRDNRIEQMEEVRSIGSLPCLEHVSLLNNPLSIIPDY  
RTKVLAAQFGERASEVCLDDTVTTEKELDTVEVLKAIQKAKEVKSKLSNPEKKGEDSRLS

AAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLSSTDSTPEHQPIAQGC  
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DFIQLRLSTLIRQAIERQLPAWIEAANQREEGQGEQEEEEDEEEEDVAENRYFEMGPP  
DVEEEEGGGQEEEEEEEEDEEAEEERLALWALGADEDFLEHIRILKVLWCFLIHVQG  
SIRQFAACLVLTDGFIAVFEIPHQESRGSSQHILSSLRFVFCFPHGDLTEFGFLMPELCL  
VLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILYGSHTSLQEFLRQLLT  
FYKVAGGCQERSQGCFPVYLVYSDKRMVQTAAGDYSGNIEWASCTLCSAVRRSCCAPSEA  
VKSAAIPYWLLLTPQHNLVIAKDFNPMNRRGTHNCRNRNSFKLSRVPLSTVLLDPTRST  
QPRGAFADGHVLELLVGYRFVTAIFVLPHEKFHFLRVYNQLRASLDLKTVVIKTPGTG  
GSPQGSFADGQPAERRASNDQRPQEVPAEALAPAPAEVPAPAPAAAASASGPAKTPAPAEA  
STSALVPEETPVEAPAPPAEAPAYPSEHLIQATSEENQIPSHLPACPSLRHVASLRGS  
AIIELFHSSIAEVEENEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFS  
EPLQDFWHQKNTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTR  
DSYLTHCFLQHLMVVLSSLERTPSPEPVDKDFYSEFGNKTGKMEYELIHSSRVKFTYP  
SEEEIGDLTFTVAQKMAEPEKAPALSILLYVQAFQVGMPPPGCCRGPLRPKTLTLLTSSEI  
FLLDEDCVHYPLPEFAKEPPQRDRYRLDDGRRVRDLDRVLMGYQTYPQALTLVFDDVQGH  
DLMGSVTLDHFGVPGGPARASQGREVQWQVFVPSAESREKLISLLARQWEALCGREL PV  
ELTG

>sp|Q86X76|NIT1\_HUMAN Nitrilase homolog 1 OS=Homo sapiens GN=NIT1 PE=1 SV=2

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QQNFKTCAELVREAAARLGACLAFLPEAFDFIARDPAETLHLSEPLGGKLL EYTQLAREC  
GLWLSLGGFHERGQDWEQTQKIYNCHVLLNSKGAVVATYRKTHLCDVEIPGQGPMCESNS  
TMPGPSLESVPSTPAGKIGLAVCYDMRFPELSLALAQAGAEILTYPSAFGSITGPAHWEV  
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>sp|Q9NQR4|NIT2\_HUMAN Omega-amidase NIT2 OS=Homo sapiens GN=NIT2 PE=1 SV=1

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IPGESTQKLSEVAKECSIYLIIGSIPEDAGKLYNTCAVFGPDGTLLAKYRKIHLFDIDV  
PGKITFQESKTLSPGDSFSTFTDTPYCRVGLICYDMRFAELAQIYAQRGCQLLVYPGAFN  
LTTGPAHWELLQRSRAVDNQVYVATASPARDDKASYVAWGHSTVVNPWGEVLAKAGTEEA  
IVYSDIDLKLAELRQQIPVFRQKRSDLYAVEMKKP

>sp|P26717|NKG2C\_HUMAN NKG2-C type II integral membrane protein OS=Homo sapiens GN=KLRC2  
PE=1 SV=2

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CQGLLPPEKLTAELVGIICIVLMATVLKTIIVLIPFLEQNNSSPNTRTQKARHCGHCPEE  
WITYSNSCYIIGKERRTWEESLLACTSKNSSLLSIDNEEMKFLASILPSSWIGVFRNSS  
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>sp|O43908|NKG2F\_HUMAN NKG2-F type II integral membrane protein OS=Homo sapiens GN=KLRC4  
PE=2 SV=2

MNKQRGTYSVSLAQDPKRQQRKLKGNKISISGTEQEIFQVELNLQNASSDHQGNCKTYH  
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PEEWITYSNSCYIIGKERRTWEERVCPVLRRTLICFL

>sp|Q17RQ9|NKPD1\_HUMAN NTPase KAP family P-loop domain-containing protein 1 OS=Homo  
sapiens GN=NKPD1 PE=2 SV=1

MQQEAAQRESEELQHVQWRPRAVSGWGPQLLWYLVFLQPIITEVHLRRRNQFLFIRFS  
AWQYAGTDKLWAGLVTTLCEGIRRHYGALPFSVYSVLGNKPTRQDCCQSEWHCRRRVCL  
GLLALLAALGLGVLLYLSLGGHALGHGSPSGSLLKVFGGAATLSGSGLLMAVYVGKH  
LFVSQRKKIERLVSREKFGSQLGFMCEVKKEVELLTDFLCFLEIYQRRRLRVVLEVTGLD  
TCYPERVVGVNAINLLSDSHAPFIFILVVDPSILAACLESAGNMKGTAADNGYLFLNRT  
VTLPFSVPIMGRRTKLQFLHDAVQSRDDLREMTTRKPLPGDAGGESAQLLAVQAQAGT  
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GDFGGPTPRQAVAVVLANQWPCRLSWALQCLEDQQTGGAPEGRARLWDVFRDNRSLH  
TMTKALQNVLDLDGDPFLFERFLGADFPFTVAEAQSLLRCTVNLDSIRRRMGLIRAVSA  
LKPPSPPKSPTRDTPHAAHRANSASRAPPSGRASGQAGEGHHTGDLAHRGKLWPVACALF  
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>sp|O15226|NKRF\_HUMAN NF-kappa-B-repressing factor OS=Homo sapiens GN=NKRF PE=1 SV=2

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ILTKDQPVNTANMYFDSGNPAPSTTSQQANSQSTPEPSPSQTFPESVVAEKQYFIEKLTAT  
IWKNLSPNEMTSGSDKINYTYMLTRCIQACKTNPEYIYAPLKEIPPADIPKNKKLLTDGY  
ACEVRCQNIYLTGTYAGSKNGSRDRATELAVKLLQKRIEVRVRRKFKHTFGEDLVVCQI  
GMSSYEFPALPKPPEDLVVLGKDASGQPIFNASAKHWTNFBVITENANDAIGILNNSASFN  
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SSQCHTGSSPRGSGKKDKIDLVVYENSSNPVCTLNDTAQFNRMTVEYVYERMTGLRWKC  
KVILESEVIAEAVGVKTKVKYEAAGEAVKTLKKTQPTVINNLKKGAVEDVISRNEIQGRS  
AEEAYKQKIKEDNIGNQLLRKMGWTGGGLGKSGEGIREPISVKEQHKREGLGLDVERVVK  
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>sp|Q15270|NKX1\_HUMAN NK1 transcription factor-related protein 1 OS=Homo sapiens  
GN=NKX1-1 PE=2 SV=2

MDGRAELPAFPRAGAPPLAASDTPAAPEGAGAARPAAPLRPTSFSVLDILDPNKFNSRR  
RRCVLLGPVAPAACAPCASAPCAPAASGRPPRAEELERRALAGAGVGAGAEPNAG  
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GGLGARGSGCQAAETDASPGATVDEAAAPGPRENPAQGPVGGAAAPGGAGTTPQGT  
TAAKPKRKRTGSDSKSGKPRRARTFTYEQLVALENKFKATRYLSVCERLNLALSLSL  
TQVKIWFQNRRTKWKQNPADTSAPTGGGGGPGPGAGPGTGLPGGLSPLSPSPPMGAPL  
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>sp|Q8TAU0|NKX23\_HUMAN Homeobox protein Nkx-2.3 OS=Homo sapiens GN=NKX2-3 PE=2 SV=2

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SCQLKKSLETAGDCKAAEESERPKPRSRKPRVLFSAQVFELEERRFKQQRYSAPEREH  
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PSAQAYGAPYVGASAYSNSFPAYGYGNSAAAAAAAAAAAAAYSSSYGCAYPAGGG  
GGGGTSAATTAMQACSAAGGGPFVNVSNLGGFGSGGSAQPLHQGTAAACAAGTLQG  
IRAW

>sp|A6NCS4|NKX26\_HUMAN Homeobox protein Nkx-2.6 OS=Homo sapiens GN=NKX2-6 PE=1 SV=1

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GGGDRKLDGSEPPGGPCEAVLEMDAERMGEPQPLNAASPLGGGTRVPERGVGNSGDSVR

GGRSEQPKARQRRKPRVLFSQAQVLALERRFKQQRYSAPEREHLASALQLTSTQVKIWF  
QNNRYKCKRQRQDKSLELAGHPLTPRRVAVPVLVRDGPCLGPGGAPAFPPSPYSAVSP  
YSCYGGYSGAPYGAGYGTCTYAGAPSGPAPHTPLASAGFGHGGQNATPQGHLAATLQGVRA  
W

>sp|Q8NFZ3|NLGN\_HUMAN Neuroligin-4, Y-linked OS=Homo sapiens GN=NLGN4Y PE=2 SV=1

MLRPQGLLWLPLLFTSVCVMLNSNVLLWITALAIKFTLIDSQAQYPVVNTNYGKIQGLRT  
PLPSEILGPVEQYLGVYPYASPTGERRFQPPESPSSWTGIRNATQFSAVCPQHLLDERFLL  
HDMLPIWFTTSLDTLMTYVQDQNECLYLNIVPMEDDIHEQNSKKPVMVYIHGGSYMEG  
TGNMIDGSILASYGNVIVITINRYLGLFLSTGDQAAKNGYGLLDQIQALRWIENVGA  
FGGDPKRVTIFGSGAGASCVSLLTSLHYSEGLFQKAIISGTALSSWAVNYQPAKYTRIL  
ADKVGCNMLDTTDMVECLKNKNYKELIQQTITPATYHIAFGPVIDGDVIPDDPQILMEQG  
EFLNYDIMLGVNQGEGLKFVDGIVDNEDGVTNDFDFSNSFVDNLYGYPEGKDTLRETI  
KFMYPDWADKENPETRRKTLVALFTDHQWVAPAVATADLHAQYSPTYFYAFYHHCQSEM  
KPSWADSAHGDEVYPYVFGIPMIGPTELFSCNFSKNDVMLSAVVMTYWTNFAKTGDPNQPV  
PQDTKFIHTKPNRFEEVAWSKYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNL  
NEIFQYVSTTTKVPPDMSFPYGTRRSPAKIWPTTKRPAITPANNPKHSDPHKTGPED  
TTVLIETKRDYSELVTVIAGVSLFLNLFAALYKKDKRRHETHRHPSQQRNTND  
ITHIQNEEIMSLQMKQLEHDHECESLQAHDTLRLTCPDYLTLRRSPDDIPFMTPTIT  
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>sp|Q9UBE8|NLK\_HUMAN Serine/threonine-protein kinase NLK OS=Homo sapiens GN=NLK PE=1 SV=2

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VHPVQQHTSSAAAAAAAAAAAAAMLNPGQQQPYFSPAPGQAPGPAAPAAQVQAAAAAT  
VKAHHHQSHHPQQQLDIEPDRPIGYGAFGVVSVTDPRDGKRVALKKMPNVFQNLVSCK  
RVFRELKMLCFKHNDVLSALDILQPPHIDYFEEIYVVTELMQSDLHKIIVSPQPLSSDH  
VKVFLYQILRGLKYLHSAGILHRDIKPGNLLVNSNCVLKICDFGLARVEELDESRHMTQE  
VVTQYYRAPEILMGSRHYSNAIDIWSVGCIFAELLGRRILFQAQSPIQQDLITDLLGTP  
SLEAMRTACEGAKAHILRGPHKQPSLPVLYTLSSQATHEAVHLLCRMLVFDPSKRISAKD  
ALAHPLYLDEGRLYHTCMCKCCFSTSTGRVYTSDFEPVTNPKFDDTFEKNLSSVRQVKEI  
IHQFILEQQKGNRVPLCINPQSAAFKSFISSTVAQPSEMPPSPLVWE

>sp|Q9NPP4|NLRC4\_HUMAN NLR family CARD domain-containing protein 4 OS=Homo sapiens  
GN=NLRC4 PE=1 SV=2

MNFIKDNSRALIQRMGMTVIKQITDDLFWVNVNREEVNICCEKVEQDAARGIIHMILK  
KGSESCNLFLKSLKEWNYPLFQDLNGQSLFHTSEGLDDLAQDLKDLVHTPSFLNFYPL  
GEDIDIIFNLKSTFTPEVLWRKDQHHRVEQLTLNGLLQALQSPCIEGESGKGKSTLLQ  
RIAMLWGSCKKALTKFKFVFFLRLSRAQGGLFETLCDQLLDIPGTIRKQTFMAMLLKLR  
QRVFLLDGYNEFKPQNCPEIEALIKENHRFKNMVIVTTTECLRHIRQFGALTAEVGDM  
TEDSAQALIREVLKELAEGLLLQIKSRCLRNLMKTPLFVVITCAIQMGESEFHSHTQT  
TLFHTFYDLLIQKNKHKKHGAASDFIRSLDHCGDLAEGVFSHKFDFELQDVSSVNEDV  
LLTTGLLCKYTAQRFKPKYKFFHKSFQEYTAGRRLSLLTSHEPEEVTGNGYLQKMVSI  
SDITSTYSLLRYTCSSVEATRAVMKHLAAVYQHGCLLGLSIAKRPLWRQESLQSVKNT  
TEQEILKAININSFVECGIHLYQESTSKSALSQEFEAFFQGSLYINSGNIPDYLFDFFE  
HLPNCASALDFIKLDFYGGAMASWEKAAEDTGGIHMEAPETYIPSRVSLFFNWKQEFR  
TLEVTLRDFSGLNKQDIRYLGKIFSSATSLRLQIKRCAGVAGSLSLVLSTCKNIYSLMVE  
ASPLTIEDERHITSVTNLKTLSDHDLQNRQLPGGLTDSLGNLKNLTKLIMDNIMNEEDA

IKLAEGKLNKKMCLFHLTHLSDIGEMDYIVKSLSSEPCDLEEIQLVSCCLSANAVKIL  
AQNLHNLVKLSILDLSENYLEKDGNEALHELIDRMNVLEQLTALMLPWGCDVQGSLSLL  
KHLEEVQPLVKLGKLNWRLTDTEIRILGAFFGKNPLKNFQQLNLAGNRVSSDGLAFMGV  
FENLKQLVFFDFSTKEFLPDPALVRKLSQVLSKLTFLQEARLVGWQFDDDDL SVITGAFK  
LVTA

>sp|Q9C000|NLRP1\_HUMAN NACHT, LRR and PYD domains-containing protein 1 OS=Homo sapiens  
GN=NLRP1 PE=1 SV=1

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSGETPAQPEKTSGMEVASYLVAQ  
YGEQRAWDLALHTWEMGLRSLCAQAQEGAGHSPSPFPYSPSEPHLGSPSQPTSTAVLMPW  
IHELPAGCTQGSERRVLRQLPDTSGRRWREISASLLYQALPSSPDHESPSQESPNAPTST  
AVLGSWGSPPQPSLAPREQEAPGTQWPLDETSGIYYTEIREREREKSEKGRPPWAAVVGT  
PPQAHTSLQPHHHPWEPVSVRESLCSTWPWKNEFDNQKFTQLLLLQRPHPRSQDPLVKRSW  
PDYVEENRGHLIEIRDLFGPGLDTQEPRIVILQGAAGIGKSTLARQVKEAWGRGQLYGDR  
FQHVFFYFSCRELAQSKVVS LAELIGKDGTTATPAPIRQILSRPERLLFILDGVDEPGWVLQ  
EPSSSELCLHWSQPQADALLGSLGKTI LPEASFLITARTTALQNLIPSLEQARWVEVLG  
FSESSRKEYFYRYFTDERQAIRAFRLVKSNEKELWALCLVPVWSW LACTCLMQMKRKEKL  
TLTSKTTTTLCLHYLAQALQAQPLGPQLRDLCSLAAEGIWQKKT LFSPPDLRKHGLDGAI  
ISTFLKMGILQEHIPLSYSF IHLCFQEFAAMSYVLEDEKGRGKHSNCI IDLEKTLEAY  
GIHGLFGASTTRFLLGLLSDEGEREMENIFHCRLSQGRNLMQWVPSLQLLLQPHSLES LH  
CLYETRNTKFTLTQVMAHFEEMGMCVETDMELLVCTFCIKFSRHVKKLQ LIEGRQHRSTWS  
PTMVVLFWRVVPVTDAYWQILFSVLKVTRNLKELDLSGNSLSHSAVKSLCKTLRRPRCLLE  
TLRLAGCGLTAEDCKDLAFGLRANQTLTELDLSFNVLTDAKHL CQRLRQPSCKLQRLQ  
LVSCGLTSDCCQDLASVLSASPSLKELDLQQNNLDDVGVRLLC EGLRHPACKLIRLGLDQ  
TTLSDEMRQELRALEQEKPLLI FSRRKPSVMTPTGLDTGEMSNSTSSLKRQRLGSERA  
ASHVAQANLKLLDVSKIFPIAEIAEESPEVVPVELLCVPSPASQGD LHTKPLGTDDDFW  
GPTGPVATEVVDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTVEIEFCVWDQFLGEIN  
PQHSWMVAGPLLDIKAEPGAVEAVHLPHFVALQGGHVDTS LFMMAHFKEEGMLLEKPARV  
ELHHIVLENPSFSPLGVLLKMIHNALRFIPVTSVLLYHRVHP EEVTFHLYLIPSDCSIR  
KAIDDLKMFQFVRIHKPPPLTPLYMGCRTVSGSGSGMLEILPKELELCYRSPGEDQLF  
SEFYVGHLGSGIRLQVKDKKDET LVWEALVKPGDLMPATTLIPPARIAVPSPLDAPQLLH  
FVDQYREQLIARVTSVEVVLDKLHGQVLSQEYQYERVLAENTRPSQMRKLFSLSQSWDRKC  
KDGLYQALKETHPHLIMELWEKGSKKGLPLSS

>sp|P59044|NLRP6\_HUMAN NACHT, LRR and PYD domains-containing protein 6 OS=Homo sapiens  
GN=NLRP6 PE=1 SV=2

MDQPEAPCSSTGPR LAVARELLLALEELSQEQLKRFRHKL RDVGPDGRSIPWGRLERAD  
AVDLAEQLAQFYGPEPALEVARKTLKRADARDVAAQLQERRLQRLGLSGTLLSVSEYKK  
KYREHVLQLHARVKERNARSVKITKRFTKLLIAPESAAP EAMGPAEEPEPGRARRSDTH  
TFNRLFRRDEEGRRLTVVLQGPAGIGKTM AAKKILYDWAAGKLYQGQVDFAFFMPCGEL  
LERPGTRSLADLILDQCPDRGAPVPQMLAQ PQRLIFLDGADEL PALGGPEAAPCTDPFE  
AASGARVLGGLLSKALLPTALLLVTTAAAPGR LQGRLCSPQCAEVRGFSKDKKKYFYK  
YFRDERRAERAYRFVKENETL FALCFVPFVCWIVCTVLRQQLELGRDLSRTSKTTTSVYL  
LFITSVLSSAPVADGPRLQGDLRNLCRLAREGVLGRR AQFAEKELEQLELRGSKVQTLFL  
SKKELPGVLETEVTYQFIDQS FQEFLAALS YLLEDGGVPRTAAGGVGTLLRGDAQPHSHL  
VLTTRFLFGLLSAERMRIERHFGCMVSERVKQEALRWVQGGQGC PGVAPEVTEGAKGL

EDTEEPEEEEEGEENPYPLELLYCLYETQEDAFVRQALCRFPELALQVRVFCRMDVAVLS  
YCVRCCPAGQALRLISCRLVAAQEKKKKSLGKRLQASLGGSSSQGTTKQLPASLLHPLF  
QAMTDPLCHLSSLTSLSHCKLPDAVCRDLSEALRAAPALTELGLLHNRLSEAGLRMLSEGL  
AWPQCRVQTVRVQLPDPQRGLQYLVGMLRQSPALTTLDLSGCQLPAPMVTYLCAVLQHQG  
CGLQTLASVELSEQSLQELQAVKRAKPDLVITHPALDGHPQPPKELISTF

>sp|Q13224|NMDE2\_HUMAN Glutamate receptor ionotropic, NMDA 2B OS=Homo sapiens GN=GRIN2B  
PE=1 SV=3

MKPRAECCSPKFWLVLAVALVSGSRARSQKSPPSIGIAVILVGTSDVAIKDAHEKDDFH  
HLSVVPVELVAMNETDPKSIITRICDLMSDRKIQGVVFADDDTQEAIAQILDFISAQTL  
TPILGIHGGSSMIMADKDESSMFFQFGPSIEQQASVMLNIMEEYDWYIFSIVTTYFPGYQ  
DFVNKIRSTIENSFVGWELEEVLLDMSLDDGDSKIQNQLKKLQSPIILLYCTKEEATYI  
FEVANSVGLTGYGYTWIVPSLVAGDTDTPAEFPTGLISVSYDEWDYGLPARVRDGIAT  
TTAASDMLSEHSFIPEPKSSCYNTHKRIYQSNMLNRYLINVTFEGRNLSFSEDGYQMHP  
KLVIILLNKERKWERVGKWKDKSLQMKYVWPRMCPETEEQEDDHLISIVTLEEAPFVIVE  
SVDPLSGTCMRNTVPCQKRIVTENKTDEEPGYIKCKGFCIDILKKISKSVKFTYDLYL  
VTNGKHGKKINGTWNGMIGEVVMKRAYMAVGSLTINEERSEVVDVSPFIETGISVMVSR  
SNGTVSPSAFLEPFSADVWMMFMVLLIVSAVAVFVFEYFSPVGYNRCLADGREPGGPSF  
TIGKAIWLLWGLVFNNVSVQNPKGTTSKIMVSVWAFFAVIFLASYTANLAAFMIQEEYV  
DQVSGLSDKKFQRPNDFSPPFRFGTVPNGSTERNIRNNYAEMHAYMGKFNQRGVDDALLS  
LKTGKLDAFIYDAVLNVMAGRDEGCKLVTIGSGKVFASTGYGIAIQKDSGWKRQVDLAI  
LQLFGDGEMEELEALWLTGICHNEKNEVMSSQLDIDNMAGVFYMLGAAMALSLITFICEH  
LFYWQFRHCFMGVCSGKPGMVFSISRGIYSCIHGVAIEERQSVMNSTATMNNTHSNILR  
LLRTAKNMANLSGVNSPQSALDFIRRESSVYDISEHRRSFTHSDCKSYNNPPCEENLFS  
DYISEVERTFGNLQLKDSNVYQDHYHHHRPHSIGSASSIDGLYDCDNPPFTTQSRISK  
KPLDIGLPSSKHSQSLDLYGKFSFKSDRYSGHDDLIRSDVSDISTHTVTYGNIEGNAAKR  
RKQYKDSLKKRPASAKSRREFDEIELAYRRRPPRSPDHKRYFRDKEGLRDFYLDQFRTK  
ENSPHWEHVDLTDIYKERSDDFKRDSVSGGGPCTNRSHIKHGTGDKHGTVSGVPAPWEKN  
LTNVEWEDRSGGNFCRSCPSKLHNYSTTVTGQNSGRQACIRCEACKAGNLYDISEDNSL  
QELDQPAAPVAVTSNASTTKYPQSPTNSKAQKKNRNKLRRQHSYDTFVDLQKEEAALAPR  
SVSLKDKGRFMDGSPYAHMFEMSAGESTFANNKSSVPTAGHHHHNNPGGGYMLSKSLYPD  
RVTQNPFIPTFGDDQCLLHGSKSYFFRQPTVAGASKARPDFRALVTNKPVVSALHGAVPA  
RFQKDICIGNQSNPCVPNNKNPRAFNGSSNGHVYEKLSIESDV

>sp|Q13287|NMI\_HUMAN N-myc-interactor OS=Homo sapiens GN=NMI PE=1 SV=2

MEADKDDTQQILKEHSPDEFIKDEQNKLIDEITKKNIQLKKEIQKLETELQEATKEFQI  
KEDIPETKMKFLSVETPENDSQLSNISCSFQVSSKVPYEQKQALITFEKEEVAQNVVS  
MSKHHVQIKDVNLEVTAKPVPLNSGVRVFQVYVEVSKMKINVTEIPDTLREDQMRDKLELS  
FSKSRNGGGEVDRVDYDRQSGSAVITFVEIGVADKILKKKEYPLYINQTVCHRVTVSPYTE  
IHLKKYQIFSGTSKRTVLLTGMETIQMDEEIVEDLINIHQRAKNGGGEVDVVKCSLQGP  
HIAYFEE

>sp|Q96NK8|NDF6\_HUMAN Neurogenic differentiation factor 6 OS=Homo sapiens GN=NEUROD6 PE=2  
SV=1

MLTLPFDESVMPEQMCRKFSRECEDQKQIKKPESFSKQIVLRGKSIKRAPGEETEKEE  
EEEDREEDENGLPRRRGLRKKKTTKLRLERVKFRQEANAREERNRMHGLNDALDNLRKV  
VPCYSKTQKLSKIETLRLAKNYIWAISEILRIGKRPDLLTFVQNLCGLSQPTTNLVAGC

LQLNARSFLMGQGGEEAAHTRSPYSTFYPPYHSPELTPPGHGTLDNSKSMKPYNYCSAY  
ESFYESTSPECAASPQFEGPLSPPPINYNGIFSLKQEETLDYGKNYNYGMHYCAVPPRGPL  
GQGAMFRLPTDSHFYPYDLHLRSQSLTMQDELNAVFNH

>sp|Q13232|NDK3\_HUMAN Nucleoside diphosphate kinase 3 OS=Homo sapiens GN=NME3 PE=1 SV=2  
MICLVLTI FANLFPAACTGAHERTFLAVKPDGVQRRLVGEIVRRFERKGFKLVALKLVQA  
SEELLREHYAELRERPFYGRLVKYMASGPVVMVWQGLDVVRTSRALIGATNPADAPPGT  
IRGDFCIEVGKNLIHGSDSVESARREIALWFRADELLCWEDSAGHWLYE

>sp|Q8NBZ9|NEAS1\_HUMAN Putative uncharacterized protein NEXN-AS1 OS=Homo sapiens GN=NEXN-  
AS1 PE=5 SV=1  
MVWRFQKHIGKGSSQERPIRKDFLTGTAGRDGDRGWGKWWGTALNFPKDPKGSAGSAPT  
PLTEGSLPTVGNAPETQPTRRRGAGQRHCNQPKAGRHFQTLGQPLVGTTPSPQDAAPRQ  
GSPGPGPARTTAVWRPAPSGAAAEHGQKPQTPSASLQPPFPFPPPPPGDTPPSPLPPAHV  
PPTLLTLQEPVTGEGTSFRVEGLCASRLAVGRGLGALAANTSAPAAGSPLAAAAAAA  
SSSKFP

>sp|Q9NVZ3|NECP2\_HUMAN Adaptin ear-binding coat-associated protein 2 OS=Homo sapiens  
GN=NECAP2 PE=1 SV=1  
MEESGYESVLCVKPDVHVYRIPPRATNRGYRAAEWQLDQPSWSGRLRITAKGMAYIKLE  
DRTSGELFAQAPVDQFPGTAVESVTDSSRYFVIRIEDGNGRRAFIGIGFGRGDAFDENV  
ALQDHFKWVKQCEFAKQAQNPDQGPCLDLGFKEGQTIKLNIANMKKKEGAAGNPRVRPA  
STGGLSLLPPPPGGKTSTLIPPPGEQLAVGGSLVQPAVAPSSGGAPVPWPQPNPATADIW  
GDFTKSTGSTSSQTQPGTGWVQF

>sp|Q6ZWH5|NEK10\_HUMAN Serine/threonine-protein kinase Nek10 OS=Homo sapiens GN=NEK10  
PE=2 SV=3  
MPDQDKKVKTTTEKSTDKQEEITIRDYSDLKRLRCLLNQSSKQQLPAINFDSAQNSMTKS  
EPAIRAGGHRARGQWHESTEAVELENFSINYKNERNFSKHPQRKLFQEIFTALVKNRLIS  
REWVNRAPSIHFLRVLICRLMLRDPQYQELHSLGGIENLAQYMEIVANEYLGYGEEQH  
TVDKLVNMTYIFQKLAAVKDQREWVTTSGAHKT LVNLLGARDTNVLLGSLALASLAESQ  
ECEKISELNIVENLLMILHEYDLLSKRLTAELLRLCAEPQVKEQVKLYEGIPVLLSLL  
HSDHLKLLWSIVWILVQCEDPETSVEIRIWGGIKQLLHILQGDRNFVSDHSSIGSLSSA  
NAAGRIQQLHLSDELSPREIQENTFSLQAACCAALTEVLNDTNAHQVQENG VYTI AKL  
ILPNKQKNAAKSNLLQCYAFRALRFLFSMERNRPLFKRLFPTDLFEIFIDIGHYVRDISA  
YEELVSKLNLLEDELKQIAENIESINQNKAPLKYIGNYAILDHLGSGAFGC VYKVRKHS  
GQNLLAMKEVNLHNPAGFKDKKDRDSSVRNIVSELTIKEQLYHPNIVRYYKTFLENDRL  
YIVMELIEGAPLGEHFSSLKEKHHHFTTEERLWKIFIQLCLALRYLHKEKRIVHRDLTPNN  
IMLGDKDKVTVTDFGLAKQKQENSKLTSVVG TILYSCPEVLKSEPYGEKADVWAVGCILY  
QMATLSPPFYSTNMLSLATKIVEAVYEPVPEGIYSEKVTDTISRCLTPDAEARPDIVEVS  
SMISDVMMKYLDNLSTSQSLSEKKLERERRRTQRYFMEANRNTVTCHHELAVLSHETF EK  
ASLSSSSSGAASLKSELSADLPPEGFQASYGKDEDACDEILSDDNFNLENAEKDTYS  
EVDDELDISDNSSSSSSSPLKESTFNILKRSFSASGGERQSQTRDFTGGTGSRPRPALLP  
LDLLLKVPPHMLRAHIKEIEAELVTGWQSHSLPAVILRNLDHGPQMGTFLWQASAGIAV  
SQRKVRQISDPIQQILIQLHKIIYITQLPPALHHNLKRRVIERFKKSLFSQQSNPCNLKS  
EIKKLSQGSPEPIEPNFFTADYHLLHRSSGGNSLSPNDPTGLPTSIELEEGITYEQMQTV  
IEEVLEESGYNFTSNRYHSYPWGTKNHPTKR

>sp|P51957|NEK4\_HUMAN Serine/threonine-protein kinase Nek4 OS=Homo sapiens GN=NEK4 PE=1 SV=2

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KHPNIVTYKESWEGGDGLLYIVMGFCEGGDLYRKLKEQKGQLLPENQVVEWVQIAMALQ  
YLHEKHILHRDLKTQNVFLTRTNI IKVGD LGIARVLENHCDMASTLIGTPYYMSPELFSN  
KPYNYKSDVWALGCCVYEMATLKHAFAKDMNSLVYRI IEGKLPPMPRDYSPELAELIRT  
MLSKRPEERPSVRSILRQPYIKRQISFFLEATKIKTSKNNIKNGDSQSKPFATVVSGEAE  
SNHEVIHPQPLSSEGSQTYIMGEGKCLSQEKPASGLLKSPASLKAHTCKQDLSNTTELA  
TISSVNIDILPAKGRDSVSDGFVQENQPRYLDASNELGGICSI SQVEEEMLDNTKSSAQ  
PENLIPMWSSDIVTGEKNEPVKPLQPLIKEQKPKDQSLALSPKLECSGTILAHSNLRLLG  
SSDSPASASRVAGITGVCHHAQDVAGECI IEKQGRIHPDLQPHNSGSEPSLSRQRRQKR  
REQTEHRGEKRQVRRDLFAFQESPPRFLPSHP IVGKVDVTSTQKEAENQRRVVTGSVSSS  
RSSEMSSSKDRPLSARERRRLKQSQEEMSSSGPSVRKASLSVAGPGKPQEEDQPLPARRL  
SSDCSVTQERKQIHCLSEDELSSSTSSTDKSDGDYGEKGQTNEINALVQLMTQTLKLD  
KESCEDVPVANPVSEFKLHRKYRDTLILHGKVAEEAEEIHFKELP SAIMPGSEKIRRLVE  
VLRTDVIRGLGVQLLEQVYDLLEEDEFDREVRLREHMGEKYTTYSVKARQLKFFEENMN  
F

>sp|Q8TDX7|NEK7\_HUMAN Serine/threonine-protein kinase Nek7 OS=Homo sapiens GN=NEK7 PE=1 SV=1

MDEQSQMGQGPVPVQFQPKALRPDMGYNTLANFRIEKKIGRGQFSEVYRAACLLDGVPV  
ALKKVQIFDLMDAKARADCIKEIDLLKQLNHPNVIKYASFIEDNELNIVLELADAGDLS  
RMIKHFKKQKRLIPERTVWKYFVQLCSALEHMSRRVMHRDIKPANVFITATGVVKLGD  
GLGRFFSSKTTAAHSLVGTPIYMSPERIHENGYNFKSDIWSLGCLLYEMAALQSPFYGDK  
MNLYSLCKKIEQCDYPLPSDHYSEELRQLVNCINPDPEKRPDVITYYDVAKRMHACTA  
SS

>sp|Q9H3P2|NELFA\_HUMAN Negative elongation factor A OS=Homo sapiens GN=NELFA PE=1 SV=3

MASMRESDTGLWLNKLGATDELWAPPSIASLLTAAVIDNIRLCFHGLSSAVKLKLLLT  
LHLPRRTVDEMGALMEIIQLASLSDPWVLMVADILKSFPDTGSLNLEEEQNPVQDI  
LGELREKVGECEASAMLPLECYLNKNALTTLAGPLTPPVKHFQLKRKPKSATLRAELLQ  
KSTETAQQLKRSAGVPFHAKGRGLLRKMDTTTPLKGIPKQAPFRSPTAPSVFSPTGNRTP  
IPPSRTLLRKERGVLKLDISELDMVGAGREAKRRRKTDAEVVEKPAKEETVVENATPDY  
AAGLVSTQKLGSNNPALPSTSYLPSTPSVVPASSYIPSETPPAPSSREASRPPEEPS  
APSPTLPAQFKRAPMYNSGLSPATPTPAAPTSPLTPTTPPAVAPTTQTPPVAMVAPQTQ  
APAQQQPKKNLSLTREQMFAAQEMFKTANKVTRPEKALILGF MAGSRENPCQE QGDVIQI  
KLSEHTEDLPKADGGSTTMLVDTVFEMNYATGQWTRFKKYKPMTNVS

>sp|Q92832|NELL1\_HUMAN Protein kinase C-binding protein NELL1 OS=Homo sapiens GN=NELL1 PE=1 SV=4

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QDIEREIHAAPHVSEKLIQLFRNKSEFTILATVQQKPSTSGVILSIRELEHSYFELESSG  
LRDEIRYHIHNGKPRTEALPYRMADGQWHKVALSVSASHLLLHVDCNRIYERVIDPPDT  
NLPPGINLWLGQRNQKHGLFKGIIQDGKIIIFMPNGYITQCPNLNHTCPTCSDFLSLVQGI  
MDLQELLAKMTAKLNYAETRLSQLENCHCEKTCQVSGLLYRDQDSWVDGDHCRNCTCKSG  
AVECRMSCPPLNCPDLSLPVHIAGQCKVCRPKCIYGGKVLAEQRIILTKSCRECRGGV  
LVKITEMCPPLNCSEKDHILPENQCCRVCRGHNFC AEGPKCGENSECKNWN TKATCECKS



GYISVQGDSAYCEDIDECAAKMHYCHANTVCVNLPGLYRCDVPGYIRVDDFSCTEHDEC  
GSGQHNCDENAICTNTVQGHSTCKPGYVNGTICRAFCEEGCRYGGTCVAPNKCVCPSG  
FTGSHCEKDIDECSEGIIECHNHSRCVNLPGWYHCECRSGFHDDGTYSLSGESCIDIDEC  
ALRTHTCWNSACINLAGGFDCLCPSGPSCSGDCPHEGGLKHNGQVWTLKEDRCSVCCK  
DGKIFCRRTACDCQNPSADLFCCPECDTRVTSQCLDQNGHKLYRSGDNWTHSCQQCRCLE  
GEVDCWPLTCPNLSCEYTAILEGECCPRCVSDPCLADNITYDIRKTCLDSYGVSRLSGSV  
WTMAGSPCTTCKCKNGRVCCSVDFECLQNN

>sp|Q9UMX5|NENF\_HUMAN Neudesin OS=Homo sapiens GN=NENF PE=1 SV=1  
MVGPAARRRLRPLAALALVLALAPGLPTARAGQTPRPAERGPPVRLFTEELARYGEEEE  
DQPIYLAVKGVFDVTSKGEFYGRGAPYNALTGKDSTRGVAKMSLDPADLTHDTTGLTAK  
ELEALDEVFTKVYKAKYPIVGYTARRILNEDGSPNLDFKPEDQPHFDIKDEF

>sp|P08473|NEP\_HUMAN Neprilysin OS=Homo sapiens GN=MME PE=1 SV=2  
MGKSESQMDITDINTPKPKKKQRWTPLEISLSVLVLLLTIIAVTMIALYATYDDGICKSS  
DCIKSAARLIQNMDATTEPCTDFFKYACGGWLKRNVIPETSSRYGNFDILRDELEVVLKD  
VLQEPKTEDIVAVQKAKALYRSCINESAIDSRGGEPLLKLLPDIYGWPVATENWEQKYGA  
SWTAEKAIQNLNSKYGKKVLINLFVGTDDKNSVNHVIHIDQPRGLPSRDYYECTGIYKE  
ACTAYVDFMISVARLIRQEERLPIDENQLALEMNKVMELEKEIANATAKPEDRNDPMLLY  
NKMTLAQIQNNFSLEINGKPFSWLNTNEIMSTVNISITNEEDVVVYAPEYLTCLKPILT  
KYSARDLQNLMSWRFIMDLVSSLSRTYKESRNAFRKALYGTSETATWRRCANVNGNME  
NAVGRLYVEAAFAGESKHVVEDLIAQIREVFIQTLDDL TWMDAETKKRAEEKALAIKERI  
GYPDDIVSNDKNLNEYLELNKEDEYFENIIQNLKFSQSKQLKKLREKVDKDEWISGAA  
VVNAFYSSGRNQIVFPAGILQPPFFSAQQSNSLNYGGIGMVI GHEITHGFDDNGRNFNKD  
GDLVDWWTQQSASNFKESQCMVYQYGNFSWDLAGGQHLNGINTLGENIADNGGLGQAYR  
AYQNYIKKNGEKLLPGLDLNHKQLFFLNFAQVWCGTYRPEYAVNSIKTDVHSPGNFRII  
GTLQNSAEFSEAFHCRKNSYMNPEKKCRVW

>sp|000634|NET3\_HUMAN Netrin-3 OS=Homo sapiens GN=NTN3 PE=1 SV=1  
MPGWPWGLLLTAGTLFAALSPGPPAPADPCHDEGGAPRGCVPLVNAALGREVLASSTCG  
RPATRACDASDPRAHSPALLTSPGGTASPLCWRSESLPRAPLNVTLTVP LGKAFELVFV  
SLRFC SAPPASVALLKSQDHGRSWAPLGGFSSHCDLDYGRLPAPANGPAGPGPEALCFPA  
PLAQPDGSGLLAFSMQDSSPPGLDL DSSPVLQDWVTATDVRVVLTRPSTAGDPRDMEAVV  
PYSYAATDLQVGGRCKCNGHASRCLLDTQGHLICDRHGTEGPDCGRCKPFYCDRPWQRA  
TARESHACLACSCNGHARRCFNMELYRLSGRRSGGVCLNCRHNTAGRHCHYCREGFYRD  
PGRALSDRRACRACDCHPVGAAGKTCNQTTGQCPCKDGTGLTCNRCAPGFQQSRSPVAP  
CVKTPIPGPTEDSSPVQPQDCDSHCKPARGSYRISLKKFKCKDYAVQVAVGARGEARGAW  
TRFPVAVLAVFRSGEERARRGSSALWVPAGDAACGCPRLLPGRRYLLLGGGPGAAAGGAG  
GRGPGLIAARGSLVLPWRDAWTRRLRRLQRRERRGRCSAA

>sp|Q8TDF5|NETO1\_HUMAN Neuropilin and tolloid-like protein 1 OS=Homo sapiens GN=NETO1  
PE=2 SV=2

MIHGRSVLHIVASLIILHLSGATKKGTEKQTTSETQKSVQCGTWTKHAEGGIFTSPNYPS  
KYPPDRECIYII EAAAPRQCIELYFDEKYSIEPSWECKFDHIEVRDGPFGFSPIIGRFCGQ  
QNPPVIKSSGRFLWIKFFADGELESMGFSARYNFTPDPDFKDLGALKPLPACEFEMGGSE  
GIVESIQIMKEGKATASEAVDCKWYIRAPPRSKIYLRFLDYEMQNSNECKRNFVAVYDGS  
SSVEDLKAKFCSTVANDVMLRTGLGVIRMWADEGSRNSRFQMLFTSFQEPPCEGNTFFCH  
SNMCINNTLVCNGLQNCVYPWDENHCKEKRKTSLLDQLTNTSGTVIGVTSCIVIIIIIS

VIVQIKQPRKKYVQRKSDFDQTVFQEVFEPHYELCTLRGTGATADFADVDDFENYHKL  
RRSSSKCIHDHHCQSLSSTKGSRSNLSTRDASILTEMPTQPGKPLIPPMNRRNILVMKH  
SYSQDAADACDIDEIEEVPTTSHRLSRHDKAVQRFCLIGSLSKHESEYNTTRV

>sp|Q8NFW8|NEUA\_HUMAN N-acylneuraminate cytidyltransferase OS=Homo sapiens GN=CMAS PE=1  
SV=2

MDSVEKGAATSVSNPRGRPSRGRPPKLQRNSRGGQGRGVEKPPHLAALILARGGSKGIPL  
KNIKHLAGVPLIGWVLRALDSGAFQSVWVSTDHDEIENVAKQFGAQVHRSSEVSKDSS  
TSLDAIIIEFLNYHNEVDIVGNIQATSPCLHPTDLQKVAEMIREEGYDSVFSVVRHQFRW  
SEIQKGVREVTEPLNLPNAKPRRQDWDGELYENGsfYFAKRHLIEMGYLQGGKMAYYEM  
RAEHSVDIDVDIDWPIAEQRLRYGYFGKEKLEIKLLVCNIDGCLTNGHIYVSGDQKEI  
ISYDVKDAIGISLLKKSIEVRLISERACSKQTLSSLKLDCKMEVSVSDKLAVVDEWRKE  
MGLCWKEVAYLGNEVSDEECLKRVGLSGAPADACSTAQKAVGYICKNGGRGAIREFAEH  
ICLLMEKVNNSCQK

>sp|Q8WUJ1|NEUFC\_HUMAN Neuferricin OS=Homo sapiens GN=CYB5D2 PE=2 SV=1

MLRCGGRGLLLGLAVAAAAMAAARLMGWGPRAGFRLFIPEELSRYRGGPGDPGLYLALL  
GRVYDVSSGRRHYEPGSHYSGFAGRDASRAFTGDCSEAGLVDDVSDLSAAEMLTLHNWL  
SFYEKNYVCVGRVTGRFYGEDGLPTALTQVEAAITRGLEANKLQLQEKQTFPPCNAEWS  
SARGSRLWCSQKSGGVSRDWIGVPRKLYKPGAKEPRCVCVTTGPPSGQMPDNPPHRNRG  
DLDHPNLAEYTGCPPLAITCSFPL

>sp|Q9BR09|NEUL2\_HUMAN Neuralized-like protein 2 OS=Homo sapiens GN=NEURL2 PE=2 SV=1

MAAASEPVDSGALWGLERPEPPPTRFHRVHGAINRVDPSGTRATRVESFAHGVCFSREPL  
APGQVFLVEIEEKELGWCGHLRLGLTALDPASLAPVPEFSLPDLVNLGHTWVFAITRHHN  
RVPREGRPEAAEAAPSRPPTLLVEPYLRIEQFRIPRDRLVGRSRPGLYSHLLDQLYELNV  
LPPTARRSRLGVLCPRPDGTADMHIINGEDMGPSARGLPAAQPLYAVVDVFASTKSVR  
LVQLEYGLPSLQTLCLRLVIQRSMVHRLAIDGLHLPKELKDFCKYE

>sp|P80188|NGAL\_HUMAN Neutrophil gelatinase-associated lipocalin OS=Homo sapiens GN=LCN2  
PE=1 SV=2

MPLGLLWLGLALLGALHAQAQDSTSDLIPAPPLSKVPLQQNFQDNQFQGWYVVGLAGNA  
ILREDKDPQKMYATIYELKEDKSYNVTSLVFRKKKCDYWIRTFVPGCQPGFTLGNIKS  
PGLTSYLVRVSTNYNQHAMVFFKKVSQNREYFKITLYGRTKELTSELKENFIRFSKSLG  
LPENHIVFPVPIDQCIDG

>sp|Q96E22|NGBR\_HUMAN Dehydrodolichyl diphosphate synthase complex subunit NUS1 OS=Homo  
sapiens GN=NUS1 PE=1 SV=1

MTGLYELVWRVLHALLCLHRTLTSWLRVRFGTWNWIWRRCCRAASAAVLAPLGFTLRKPP  
AVGRNRRHHRHPRGGSCLAHHMRWRADGRSLEKLPVHMGLVITEVEQEPSFSDIASL  
VVWCMAGVISYISVDYHQIFKRNN SRLMDEILKQQQELLGLDCSKYSPEFANSNDKDDQ  
VLNCHLAVKVLSPEDGKADIVRAAQDFCQLVAQKQKRPTDLVDVTLASLLSSNGCPDPDL  
VLKFGPVDSTLGLPWHIRLTEIVSLPSHLNISYEDFFSALRQYAACEQRLGK

>sp|Q8N5V2|NGEF\_HUMAN Ephexin-1 OS=Homo sapiens GN=NGEF PE=1 SV=2

METRESEDLEKTRRSASDQWNTDNEPAKVPELLPEKEETSQADQDIQDKEPHCHIIPIK  
RNSIFNRSIRRKSKAKARDNPERNASCLADSQDNGKSVNEPLTLNIPWSRMPPCRTAMQT  
DPGAQEMSESSSTPGNGATPEEWPALADSPPTLALRMIHIPADSWRNLIQIGLLYQ  
EYRDKSTLQEIETRRQQDAEIEDNTNGSPASEDTPEEEEEEEEEEPASPPERKTLPLQIC  
LLSNPHSRFNLWQDLPEIRSSGVLEILQPEEIKLQEAMFELVTSEASYKSLNLLVSHFM

ENERIRKILHPSEAHILFSNVLDVLAVSERFLELEHRMEENIVISDVCDIVYRYAADHF  
SVYITYVSNQTYQERTYKQLLEKAAAFRELIAQLELDPKCRGLPFSSFLILPFQRITRLK  
LLVQNILKRVEERSERECTALDAHKELEMVVKACNEGVRKMSRTEQMISIQKMEFKIKS  
VPIISHSRWLLKQGELQQMSGPKTSRTLRTKKLFHEIYLFLFNDLLVICRQIPGDKYQVF  
DSAPRGLLRVEELEDQGQTLANVFILRLLENADDREATYMLKASSQSEMKRWMTSLAPNR  
RTKFVSFTSRLDCPQVQCVPYVAQQPDELTELEADILNILDKTDDGWIFGERLHDQER  
GWFPSMTEEILNPKIRSQNLKECFRVHKMDDPQRSQNKDRRKLGSNRNQ

>sp|Q96IV0|NGLY1\_HUMAN Peptide-N(4)-(N-acetyl-beta-glucosaminy1)asparagine amidase  
OS=Homo sapiens GN=NGLY1 PE=1 SV=1

MAAAALGSSSGSASPAVAELCQNTPETFLEASKLLTYADNILRNPNDKEYRSIRIGNTA  
FSTRLLPVRGAVECLFEMGFEEGETHLIFPKKASVEQLQKIRDLIAIERS SRLDGSNKSH  
KVKSSQQAAS TQLPTTPSSNPSGLNQHTRNRQGS SDPPSASTVAADSAILEVLQSNIQ  
HVLVYENPALQEALACIPVQELKRKSQEKLSRARKLDKGINISDEDFLLELLHWFKEE  
FFHWVNNVLC SKGGQTRSRDRSLLPSDDELKWGAKEVEDHYCDACQFSNRFPYNNPEK  
LLETRCRCGEWANCFTLCCRAVGFEARYVWDYTDHVWTEVYSPSQRWLHCDACEDVCD  
KPLLYEIGWGKKLSYVIAFSKDEVVDVTWRYSCHEEVIARRTKVKEALLRDTINGLNKQ  
RQLFSENRRKELLQRIIVELVEFISPKTPKPGELGGRISGSVAWRVARGEMGLQRKETL  
FIPCENEKISKQLHLCYNIVKDRYVRVSNNNQTSISGWENGVWKMESIFRKVETDWHMVYL  
ARKEGSSFAYISWKFECSVGLKVDSISIRTSSQTFQTGTVEWKLRSDTAQVELTGDNSL  
HSYADFSGATEVILEAELSRGDGDVAWQHTQLFRQSLNDHEENCLEII IKFSDL

>sp|Q15599|NHRF2\_HUMAN Na(+)/H(+) exchange regulatory cofactor NHE-RF2 OS=Homo sapiens  
GN=SLC9A3R2 PE=1 SV=2

MAAPEPLRPRLCRLVRGEQGYGFHLHGEKGRRGQFIRRVEPGSPAEEAALRAGDRLVEVN  
GVNVEGETHHQVVRQRIKAVEGQTRLLVVDQETDEELRRRQLTCTEEMAQRGLPPAHPWE  
PKPDWAHTGSHSSEAGKDVSGPLREL RPRLCHLRKGPQGYGNLHSDKSRPGQYIRSVD  
PGSPAARSGLRAQDRLIEVNGQNVGLRHAEEVASIKAREDEARLLVDPETDEHFKRRLR  
VTPTEEHVEGPLPSPVTNGTSPAQLNGGSACSSRSDLPGSDKDTEDGSAWKQDPFQESGL  
HLSPTAAEAKEKARAMRVNKRAPQMDWNRKREIFS NF

>sp|O75323|NIPS2\_HUMAN Protein NipSnap homolog 2 OS=Homo sapiens GN=GBAS PE=1 SV=1

MAARVLRARGAAWAGLLQRAAPCSLLPRLRTWTSSSNRSREDSWLKSLFVRKVDPRKDA  
HSNLLAKKETS NLYKLQFHNKPECLEAYNKICQEVLPKIHEDKHYPCTLVGTWNTWYGE  
QDQAVHLWRYEGGYPALTEVMNKLRENKEFLEFRKARS DMLLSRKNQLLLEFSFWNEPVP  
RSGPNIYELRSYQLRPGTMIEWGNYWARAIRFRQDGNEAVGGFFSQIGQLYMVHHLWAYR  
DLQTREDIRNAAWHKHGWEELVYYTVPLIQEMESRIMIPLKTSPLQ

>sp|P52952|NKX25\_HUMAN Homeobox protein Nkx-2.5 OS=Homo sapiens GN=NKX2-5 PE=1 SV=1

MFPSPALTPTPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAFKPEAYAGPE  
AAAPGLPELRAELGRAPSPAKCASAFPAAPAFYPRAYSDPDPAKDPAEKKELCALQKAV  
ELEKTEADNAERPRARRRRKPRVLFSQAQVYELERRFKQRYLSAPERDQLASVLKLTST  
QVKIWFQNRKYKCKRQRQDQTLVLGLPPPPPPPARRIAVPVLVRDGKPCLGDSAPYAPA  
YGVGLNPYGYNAYPAYPGYGGAACSPGYSCTAAYPAGPSAPATAAANNFVNFGVGD  
NAVQSPGIPQNSGVSTLHGIRAW

>sp|PDI83|NARR\_HUMAN Ras-related protein Rab-34, isoform NARR OS=Homo sapiens GN=RAB34  
PE=1 SV=1

MVGQPQPRDDVGS PRPRVIVGTIRPRVIVGTIRPRVIVGSARARPPPDGTPRPQLAAEES

PRPRVIFGTPRARVILGSPRPRVIVSSPWPVAVVVASPRPRTPVGSPWPRVVGTTPRPRVI  
VGSPRARVADADPASAPSQGALQGRRQDEHSGTRAEGSRPGGAAPVPEEGGRFARAQRLP  
PPRHLRLPGAPDRHRGQI

>sp|P49321|NASP\_HUMAN Nuclear autoantigenic sperm protein OS=Homo sapiens GN=NASP PE=1  
SV=2

MAMESTATAAVALVSAADKIEDVPAPSTSADKVESLDVDSEAKKLLGLGQKHLVMGDIP  
AAVNAFQEAASLLGKKYGETANECGEAFFFYGKSLELARMENGLGNALEGVHVEEEEG  
EKTEDESLVENNDNIDEEAREELREQVYDAMGEKEEAKKTEDKSLAKPETDKEQDSEMEK  
GGREDMDISKSAAEPQEKVDLTLDWLTETSEEAKGGAPEGPNEAEVTSKGPEQEVDAE  
EEKSVSGTDVQEECREKGGQEKQGEVIVSIEEKPKVSEEQPVVTLEKQGTAVEVEAESL  
DPTVKPVDVGDEPEEKVVTSENEAGKAVLEQLVGQEVPPAESPEVTTEAAEASAVEAG  
SEVSEKPGQEAAPLPKDGAVNGPSVVGDTPIEPQTSIERLTETKDGSGLEEKVRAKLVP  
SQEETKLSVEESEAAAGDGVDTKVAQGATEKSPEDKVQIAANEETQEREEQMKEGEETEGS  
EEDDKENDKTEEMPNDVLENKSLQENEEEEIGNLELAWDMLDLAKIIFKRQETKEAQLY  
AAQAHKLKGEVSVESYVQAVEEFQSCNLQEQYLEAHDRLLAETHYQLGLAYGYNSQY  
DEAVAQFSKSIIEV IENRMAVLNEQVKEAEGSSAEYKKEIEELKELLPEIREKIEDAKESQ  
RSGNVAELALKATLVESSTSGFTPGGGSSVSMIASRKPTDGASSNCVTDISHLVRRKR  
KPEEESPRKDDAKKAKQEPEVNGSGDAVPSGNEVSENMEEEAENQAESRAAVEGTVEAG  
ATVESTAC

>sp|Q93015|NAT6\_HUMAN N-acetyltransferase 6 OS=Homo sapiens GN=NAT6 PE=2 SV=2

MELILSTPAELTLDPAQPKPLDSTCQPEMTFNPGPTLTDPEHQPEETPAPSLAEL  
TLEPVHRRPELDDACADLINDQWPRSRTSRLHSLGQSSDAFPLCLMLSPHPTLEAAPVV  
VGHARLSRVLNQPSLLVETVVVARALRGRGFGRRLMEGLEVFARARGFRKLHLTHDQV  
HFYTHLGYQLGEPVQGLVFTSRRLPATLLNAFPTAPSPRPPRKAPNLTAQAAPRGPKGPP  
LPPPPPLPECLTISPPVPSGPPSKSLLLETQYQNVGRPIFWMEKDI

>sp|Q9UHF3|NAT8B\_HUMAN Putative N-acetyltransferase 8B OS=Homo sapiens GN=NAT8B PE=5 SV=1

MAPYHIRKYQESDRKSVVGLLSGGMAEHAPATFRRLKLPRTLILLGGALALLLVSGSW  
ILALVFSLSLLPALWFLAKKPWTRYVDIALRTDMSDITKSYLSECGSCFWAESEKVVG  
TVGALPVDDPTLREKRLQLFHLVSDNEHRGQGIKALVRTVLQFARDQGYSEVLDTSNI  
QLSAMGLYQSLGFKKTGQSFFHVWARLVDLHTVHFYHLPQAQAGRL

>sp|Q9UHE5|NAT8\_HUMAN N-acetyltransferase 8 OS=Homo sapiens GN=NAT8 PE=1 SV=2

MAPCHIRKYQESDRQVWVGLLSRGMAEHAPATFRQLLKLPRTLILLGGPLALLLVSGSW  
LLALVFSISLFPALWFLAKKPWTEYVDMTLCITDMSDITKSYLSERGSCFWAESEKVVG  
MVGALPVDDPTLREKRLQLFHLFVDSEHRRQGIKALVRTVLQFARDQGYSEVILDTGTI  
QLSAMALYQSMGFKKTGQSFFCVWARLVALHTVHFYHLPSSKVGSL

>sp|Q6IPT4|NB5R5\_HUMAN NADH-cytochrome b5 reductase-like OS=Homo sapiens GN=CYB5RL PE=2  
SV=3

MMAEREEDDDTEEAWMLRPTEPLPSQCCGSGCSPCVFDLYHRDLARWEAAQASKDRSLL  
RGPESQSCPSKLPETVFAFCIIAMDRLTKDTYRVRFALPGNSQLGLRPGQHLILRGIVD  
DLEIQRAYTPISPANAEGYFEVLICKYQMGLMSRYVESWRVGDATFWRGPFQDFYKPNQ  
YGELLLAAGTGLAPMVPIQSITDNENDETFTVLVGCFTFESIYKTFLEQARFNVN  
RTFFVLSQESSSELQPSYQEKTHFGHLGQDLIKELVSCRRKPFALVCGSAEFTKDIAR  
CLLCAGLTEDSYFLF

>sp|Q6ZS30|NBE1\_HUMAN Neurobeachin-like protein 1 OS=Homo sapiens GN=NBEAL1 PE=2 SV=3

MASRERLFELWMLYCTKKDPDYLKLWLDTFVSSYEQFLDVFELKPTRVDDMPPGISLLP  
DNILQVLRIQLLQCVQKMADGLEEQQAALSILLVKFFIILCRNLSNVEEIGTCSYINYVI  
TMTTLTYIQQLKSKKKEKEMADQTCIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEK  
SRQKYKPASLTVEFVPFFYQCFQSEHLKESLKCCLLHLFGAIVAGGQRNALQAISPATM  
EVLMRVLADCDSWEDGDPEEVGRKAELTLKCLTEVVHILLSSNSDQRQVETSTILENYFK  
LLNSDHSALPNQRRSRQWENRFIALQIKMLNTITAMLDCTDRPVLQAIFLNSNCFEHLIR  
LLQNCKVFQGGQLDCLAISTIQALTAVMNKSPAAKEVFKERIGYTHMLEVLKSLGQPPEL  
LKELMNMAVEGDHTSVGILGISNVQPLLLL IQWLPQLSHDLQIFISDWLKRICCNRS  
RTTCVNANMGIRI IETLDLHSSLHQTCENLIAIHGSLGSQSVSSEEIRRLRLLRVDES  
ESVHPYVTPVTRAILTMARKLSLESALQYFNLSSHMAGISVPPIQKWPGSAFSFSAWFCL  
DQDQLTLGIANKGGKRKQLYSFFTSGMGFEAFITHSGMLVVAVCTKREYATVMLPDHSF  
CDSLWHNITVVHMPGKRPFQGSFVYIYDNGQQKVSAPLRFPAMNEPFTSCCIGSAGQRTT  
TPPPSQIPDPFSSPITPHRTSFGGILSSASWGGTIEKSKLITKLISAGTQDSEWGCPTS  
LEGQLGSVIFIYEPLQPPQVKALYLAGPNCLSPWKCQESDMADLPGNILLYTAKACKNS  
ICLDLSTNCLHGRLTGKNVWNWDIKDIINCIGGLNVLFPLLEQISHFSEGQIPEEKNEST  
VPESVTPVEGDWLVTSTKASESRLEARNLVATFILIVKHFIQRHPINQNLHSHGVATL  
GALLQKVPSTLMDVNVLMVQLLIEQVSLEKNMQLLQQMYQYLLFDFRIWNRGDFPFRIG  
HIQYLSTIIKDSRRVFRKKYGVQFLDLTLRIYYGNGCKYNELSLDDIRTIRTSLYGLIKY  
FLCKGGSHEEIQSIMGYIAATNEEEQLFGILDVLFSLRTSPTRGQLFLLLFEPGNADIL  
YALLNQKYSRDLREIIFKIMEQMLKCTNVYERSKQHIRLREVGYSGLGLLLNEALVNTS  
LIKNLTHQIINTDPVINFKDLLSVVYISHRAHINVRVAICRKVLQILQFQPDAAHQISQQ  
VGWQDTLVRFLKAKFENGNTLHKHSRAVLMKDNDKNMSTEDTKKNSDEKTDEEKITSFA  
SANVSSDQWSLEDHRSLDSNTPLFPEDSSVGELSFKSENQEEFWHSNPSHLSLDLSGIDS  
CEMSDSGSQVPDSLSTPSPVESTKSFVHSDRESSITNDMGFSDDFSLLESQERCEEEL  
LQLLTHILNYVMCKGLEKSDDDTWIERGQVFSALSKPGISSELLRPSDEIKLTLLQKMLE  
WAISENREAKTNPVTAENAFRLVLI IQDFLQSEGLVNSNMWTEKLL EDMMLLFDCLSVCY  
SESPVWVWLSQIQIQLLLGFIGRNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEH  
VLSQSIKEQTEIYSFLIPLVRTLVSKIYELLFMNLHPLSPFTNGSSSFFEDFQEYCNSN  
EWQVYIEKYIVPYMKQYEAHTFYDGHENMALYWKDCYEALMVNMHMRDREGGESKLKFQE  
LFVEPFNRKARQENLRYNNMLKQLSSQQLATLRRWKAIQLYLTCERGPWAKRKQNP IHWK  
LANVENYSRMRLKLPVNYNFKTHEEASALRDNLGIQHSQPSSDTLLLEVVKQVKVSDMVE  
DKLDLPEEDITARVNDEKEEQDQKEKLVLMEDCELITIIDVIPGRLEITTQHIYFYDGS  
IEKEDGVGFDFKWPBSQIREIHLRRYNLRRSALEIFHVDQSNYFLNFKKEVRNKIYSRLL  
SLHSPNSYYGSRSPQELFKASGLTQKWVNREISNFDYLIQINTMAGRTYNDLAQYPVFPW  
ILQDYTSEELDLNPAVFRDLSPIGVVNEKNAKAMREKYENFEDPMGTIDKFHYGTHYS  
NSAGVMHYLIRVEPFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFY  
FPEFLENQNQFNLGRQLISKELVNDVILPKWAKSAEDFIYKHKRALESEYVSAHLHEWID  
LIFGYKQRGPAAVEALNVFYCYSEGAVDLDALTDEKERKALEGMINNFGQTPCQLLEP  
HPPRLSAEEAVQKPTKIDTSTLNLFQHLPELKSFFIEGISDGIPLLKATIPKNQYRSFMS  
QGSPELLITISMNYVIGTHGWL PYDRNISNYFTFIKDQTVTNPKTQRSINGSFAPGLEIT  
SKLFVVSHDAKLLFSAGYWDNSIQVMSLTGKGIISHIIRHMDIVTCLATDYCGIHLISGS  
RDTTCMIWQITQQGGVPVGLASKPFQILYGHTEVLSVGISTELDMAVSGSRDGTVI IHT  
IQKGQYMRTLRPPCESSLFLTIPNLAISWEGHIVVYSSTEEKTTLKDKNALHLFSINGKY  
LGSQILKEQVSDICIIGEHIVTGSIQGFLSIRDHLHSLNLSINPLAMRLPIHCVCVTKEYS

HILVGLEDGKLIVVGVGKPAEMRSGQLSRKFWGSSKRLSQISAGETeyNTQDSK

>sp|Q13772|NCOA4\_HUMAN Nuclear receptor coactivator 4 OS=Homo sapiens GN=NCOA4 PE=1 SV=1

MNTFQDQSGSSSNREPLLRCS DARRDLELAIGGVLRAEQQIKDNLREVKAQIHSCISRHL  
ECLRSREVWLYEQVDLIYQLKEETLQQQAQQLYSLGQFNCLTHQLECTQNKDLANQVSV  
CLERLGS LTKPEDSTVLLFEADTITLRQTITTFGSLKTIQIPEHLMAHASSANIGPFLE  
KRG CISMPEQKSASGIVAVPFSEWLLGSKPASGYQAPYIPSTDPQDWLTQKQTLENSQTS  
SRACNFFNNVGGNLKGLNWLLKSEKSSYQKCNHSTTSSFSIEMEKGVDQELPDQDEMD  
LSDWL VTPQESHKLRKPENGSRSETSEKFKLLFQSYNVNDWL VKTDSCNCGNQPKGVEI  
ENLGNLKLNDHLEAKKPLSTPSMV TEDWL VQNHQDPCKVEEVCRA NEPCTSF AEVCDE  
NCEKEALYKWLKKKEGKDKNGMPVEPKPEPEKHKDSLNMWLCPRKEVIEQTKAPKAMTPS  
RIADSFQVIKNSPLSEWLIRPPYKEGSPKEVPGTEDRAGKQKFKSPMNTSWCSFNTADWV  
LPGKMGNLSQLSSGEDKWLLRKKAEVLLNSPLQEEHNFPDPHYGLPAVCDL FACMQLK  
VDKEKWLYRTPLQM

>sp|Q13469|NFAC2\_HUMAN Nuclear factor of activated T-cells, cytoplasmic 2 OS=Homo sapiens  
GN=NFATC2 PE=1 SV=2

MNAPERQPPDGGDAPGHEPGGSPQDELDFSILFDYEYLNPNEEEPNAHKVASPPSGPAY  
PDDVLDYGLKPYSPLASLSEPPGRFGEPDRVGPQKFLSAAKPAGASGLSPRIEITPSHE  
LIQAVGPLMRDAGLLVEQPPLAGVAASPRFTLPVPGFEGYREPLCLSPASSGSSASFIS  
DTFSPYTSPCVSPNNGGPD LCPQFQNI PAHYSPTSPIMSPRTSLAEDSCLGRHSPVPR  
PASRSSSPGAKRRHSCAEALVALPPGAS PQRSRSPSPQSSHVAPQDHGSPAGYPPVAGS  
AVIMDALNSLATDPCGIPPKMWKTSPDPSPVSAAPSKAGLPRHIYPAVEFLGPCEQGER  
RNSAPESILLVPPTWPKPLVPAIPICSIPTASLPPEWPLSSQSGSYELRIEVQPKPHH  
RAHYETEGSRGAVKAPTGGHPVVQLHGYMENKPLGLQIFIGTADERILKPHAFYQVHRIT  
GKTVTTTSYEKIVGNTKVLEIPLPKNNMRATIDCAGILKLRNADIELRKGETDIGRKNT  
RVRLVFRVHIPESSGRIVSLQTASNPIEC SQRSAHELPMVERQD TDSCLVYGGQMMILTG  
QNFTSESKVVFEKTTDGGQIWE MEATVDKDKSQPNMLFVEIPEYRNKHIRT PVKVN FYV  
INGKRKRSQPQHFTYHPVPAIKTEPTDEYDPTLICSPTHGGLGSQPYYPQHMPVAESPSC  
LVATMAPCQQFRTGLSSPDARYQQNPAAVLYQRSKSLSPSLLGYQQPALMAAPLSLADA  
HRSVLVHAGSQGQSALLHPSPTNQASPV IHYSPTNQQLRCGSHQEFQHIMYCENFAPG  
TTRPGPPPV SQGRLSPGSYPTVIQQQNATSQRAAKNGPPVSDQKEVLPAGVTIKQE QNL  
DQTYLDDVNEIIRKEFSGPPARNQT

>sp|P07196|NFL\_HUMAN Neurofilament light polypeptide OS=Homo sapiens GN=NEFL PE=1 SV=3

MSSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSYSSS  
SGSLMPLENLDSQVA AISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQNKVLEA  
ELLVLRQKHSEPSRFRALYEQEIRDLRLAAEDATNEKQALQGEREGLEETLRNLQARYEE  
EVLSREDAEGRLMEARKGADEAALARA ELEKRIDSLMDEISFLKKVHEEEIAELQAQIQY  
AQISVEMDVTKPDL SAALKDIRAQYEKLA AKNMQNAEEWFKSRFTVLTESAAKN TDAVRA  
AKDEVSESRRLLKAKTLEIEACRGMNEALEKQLQELEDKQNADISAMQDTINKLENELRT  
TKSEMARYLKEYQDLLNVKMALDIEIAAYRKLLGEETRLSFTSVGSITSGYSQSSQVFG  
RSAYGGLQTSSYLMSTRSFPSYYTSHVQEEQIEVEETIEAAKAEAEAKDEPPSEGEAE EEE  
KDKEEAEEEEAAEEEEAAKEESEEAKEEEGGEGEGEEETKEAE EEEKKVEGAGEEQAAK  
KKD

>sp|P25208|NFYB\_HUMAN Nuclear transcription factor Y subunit beta OS=Homo sapiens GN=NFYB  
PE=1 SV=2

MTMDGDSSTTDASQLGISADYIGGSYVIQPHDDTEDSMNDHEDTNGSKESFREQDIYLP  
IANVARIMKNAIPQTGKIAKDAKECVQECVSEFISFITSEASERCHQEKRKTINGEDILF  
AMSTLGFDSYVEPLKLYLQKFREAMKGEKGIGGAVTATDGLSEELTEEAFTNQLPAGLIT  
TDGQQQNMVYTTTSYQQISGVQQIQFS

>sp|P55769|NH2L1\_HUMAN NHP2-like protein 1 OS=Homo sapiens GN=SNU13 PE=1 SV=3

MTEADVNPKayPLADAHLTKKLLDLVQQSCNYKQLRKGANEATKTLNRGISEFIVMAADA  
EPLEIILHLPLLCEDKNVPYVFRSKQALGRACGVSrpVIACSVTIKEGSQLKQQIQSIQ  
QSIERLLV

>sp|O95544|NADK\_HUMAN NAD kinase OS=Homo sapiens GN=NADK PE=1 SV=1

MEMEQEKMTMNKELSPDAAAYCCSACHGDETWSYNHPIRGRAKSRSLSPALGSTKEFR  
RTRSLHGPCPVTTTFGPACVLQNPQTIMHIQDPASQRLTWNKSPKSVLVIKKMRDASLLQ  
PFKELCTHLMENMIVYVEKKVLEDPAIASDESFGAVKKKCTFREDYDDISNQIDFIIC  
LGGDGTLLYASSLFQGSVPPVMAFHLGSLGFLTPFSFENFQSQVTQVIEGNAAVVLSRL  
KVRVKELRGKKTAVHNLGGENGSAAGLDMDVGKQAMQYQVLNEVIDRGPSYLSNVD  
VYLDGHLITTVQGDGVIVSTPTGSTAYAAAAGASMIHPNPVPAIMITPICPHLSFRPIVV  
PAGVELKIMLSPEARNTAWVSFDGRKRQEIIRHGDSISITTSCYPLPSICVRDPVSDWFES  
LAQCLHWNVRKKQAHFEeeeeeeeeeg

>sp|Q9Y303|NAGA\_HUMAN N-acetylglucosamine-6-phosphate deacetylase OS=Homo sapiens  
GN=AMDHD2 PE=1 SV=2

MRGEQGAAGARVLQFTNCRILRGKLLREDLWVRGGRILDPEKLFFEERRVADERRDCGG  
RILAPGFIDVQINGFGVDFSQATEDVGSGVALVARRILSHGVTsfCPTLVTSPPVEYHK  
VVPQIPVKSGGPHGAGVLGLHLEGPFIISREKRGAPHAHLRSFEADAFQDLLATYGPLDN  
VRIVTLAPELGRSHEVIRALTARGICVSLGHSVADLRAAEDAVWSGATFITHLFNAMLPF  
HHRDPGIVGLLTSRDLPAGRCIFYGMiADGHTNPAAALRIAHRHPQGLVLVTDAlPALG  
LGNGRHTLGQQEVEVDGLTAYVAGTKTLSGSIAPMDVCVRHFLQATGCSMESALEAASLH  
PAQLLGLEKSKGTLDfGADADfVVLDDSLHVQATYISGELVWQADAARQ

>sp|Q86W26|NAL10\_HUMAN NACHT, LRR and PYD domains-containing protein 10 OS=Homo sapiens  
GN=NLRP10 PE=1 SV=1

MAMAKARKPREALLWALSDLEENDFKKLKFYLrdMTLSEGQPPLARGELEGLIPVDLAE  
LISKYGEKEAVKVLKGLKVMNLLELVDQLSHICLHDYREVYREHVRCLEEWQEAGVNGR  
YNQVLLVAKPSSESPELACPFPEQELESVTVEALFDSGEKPSLAPSLVVLQGSAGTGKT  
TLARKMVLdwATGTLYPGRFDYVFYVSCKEVLLLESKLEQLLFWCCGDNQAPVTEILRQ  
PERLLFILDGFDELQRPFEELKKRGLSPKESLLHLLIRRHTLPTCSLLITTRPLALRNL  
EPLLKQARHVHILGFSEEERARYFSSYFTDEKQADRAFDIVQKNDILYKACQVPGICWVV  
CSWLQGMERGKVLETPrNSTDIFMAYVSTFLPPDDGGCSELSRHRVLRSLCSLAAEG  
IQHQRFLFEEAELRKHNLdGPRLAAFLSSNDYQLGLAIKKFYsFRHISFQDFFHAMSylv  
KEDQSRLGKESRREVQRLLVKEQEGNDEMtlTMQFLLDISKKDSFSNLELKFCFRISPC  
LAQDLKHfKEQMESMKHNRTWDLfSLYEAKIKNLVKGIQMNVSFKIKHSNEKKSQSQN  
LFSVKSLSHGPKKEQKCPsvHGQKEGDNIAGTQKEASTGKGRGTEETPKNTYI

>sp|P59046|NAL12\_HUMAN NACHT, LRR and PYD domains-containing protein 12 OS=Homo sapiens  
GN=NLRP12 PE=1 SV=2

MLRTAGRDGLCRLSTYLEELEAvelKKFKLYLGTATELGEGKIPWGSMEKAGPLEMAQLL  
ITHFGPEEAwRLALSTFERINRKDLWERGQREDLVRDTPPGGPSSLGNQSTCLLEVSLVT  
PRKDPQETyRDYVRRKFRLMEDRNARLGECVNLShRYTRLLLvKEHSNPMQVQQQLLDTG

RGHARTVGHQASPIKIETLFEPDEERPEPPRTVVMQGAAGIGKSMLAHKVMLDWADGKLF  
QGRFDYLFYINCREMNQSATECSMQDLIFSCWPEPSAPLQELIRVPERLLFIIDGFDELK  
PSFHDPQGPWCLCWEERKPTTELLNSLIRKKLLPELSLLITRPTALEKLHRLLEHPRHV  
EILGFSEAERKEYFYKYFHNAEQAGQVFNYVRDNEPLFTMCFVPLVCWVVTCLQQQLEG  
GGLLRQTSRTTAVYMLYLLSLMQPKPGAPRLQPPPNQRGLCSLAADGLWNQKILFEEQD  
LRKHGLDGEDVSAFLNMNIFQKDINCERYYSFIHLSFQEFFAAMYYILDEGEGGAGPDQD  
VTRLLTEYAFSERSFLALTSRFLFGLLNEETRSHLEKSLCWKVSPHIKMDLLQWISKAQ  
SDGSTLQQGSLEFFSCLYEIQEEEFIQQALSHFQVIVVSNIAASKMEHVMVSSFCLKRCRSA  
QVLHLYGATYSADGEDRARCSAGAHTLLVQLPERTVLLDAYSEHLAAALCTNPNIELSL  
YRNALGSRGVKLLCQGLRHPNCKLQNLRLKRCRISSSACEDLSAALIANKNLTRMDLSGN  
GVGFPGMMLLCEGLRHPQCRLQMIQLRKQLESQACQEMASVLGTNPHLVELDLTGNAL  
DLGLRLLCQGLRHPVCRRLTLWLKICRLTAAACDELASTSVNQSLRELDLSNELGDLG  
VLLLCEGLRHPTCKLQTLRLGICRLGSAACEGLSVVLQANHNRELDLSFNDLGDWGLWL  
LAEGLQHPACRLQKLWLDSCGLTAKACENLYFTLGINQTLTDLYLTNNALGDTGVRLLCK  
RLSHPGCKLRVLWLFGMDLNKMTHSRLAALRVTKPYLDIGC

>sp|P59047|NALP5\_HUMAN NACHT, LRR and PYD domains-containing protein 5 OS=Homo sapiens  
GN=NLRP5 PE=2 SV=2

MKVAGGLELGAAALLSASPRALVTLSTGPTCSILPKNPLFPQNLSSQPCIKMEGDKSLTF  
SSYGLQWCLYELDKEEFQTFKELLKKKSSESTTCSIPQFEIENANVECLALLLHEYYGAS  
LAWATSISIFENMNLRTLSEKARDDMKRHSPEDEATMTDQGPSKEKVPGISQAVQQDSA  
TAAETKEQEISQAMEQEGATAAETEEQEISQAMEQEGATAAETEEQGHGGDTWDYKSHVM  
TKFAEEEDVRRSFENTAADWPEMQTLAGAFDSRWGFRPRTVVHLHGKSGIGKSALARRIV  
LCWAQGGLYQGMFSYVFFLPVREMQRKKESSVTEFISREWPDSQAPVTEIMSRPERLLFI  
IDGFDDLGSVLNNDTKLCKDWAEKQPPFTLIRSLLRKVLLPESFLIVTVRDVGTEKLKSE  
VVSPRYLLVRGISGEQRIHLLLERGIGEHQKTQGLRAIMNNRELLDQCQVPAVGSLICVA  
LQLQDVVGESVAPFNQTLTGLHAAVFVHQLTPRGVVRCLNLEERVVLKRFCRMAVEGVW  
NRKSVFDGDDLMVQGLGESELRALFHMNILLPDSHCEEYTYFFHLSLQDFCAALYYVLEG  
LEIEPALCPLYVEKTKRSMELKQAGFHIHSLWMKRFLFGLVSEDVRRPLEVLLGCPVPLG  
VKQKLLHWVSLGQPNATTPGDTLDAFHCLFETQDKEFVRLALNSFQEVWLPINQNLDL  
IASSFCLQHCPYLKIRVDVKGIFPRDESAEACPVVPLWMRDKTLIEEQWEDFCSMGLGTH  
PHLRQLDLGSSILTERAMKTLCAKLRHPTCKIQTLMFRNAQITPGVQHLWRIVMANRNLR  
SLNLGGTHLKEEDVRMACEALKHPKCLLESRLDCCGLTHACYLKISQILTTSPSLKSLS  
LAGNKVTDQGVMP LSDALRV SQCALQKLILEDG GITATGCQSLASALVSNRSLTHLCLSN  
NSLGNEGVNLCSRMLPHCSLQRLMLNQCHLDTAGCGFLALALMGNSWLTHLSLSMPV  
EDNGVKLLCEVMREPSCHLQDLELVKCHLTAACCESLSCVISRSRHLKSLDLTDNALGDG  
GVAALCEGLKQKNSVLARLGLKACGLTSDCCEALSLALSCNRHLTSLNLVQNNFSPKGM  
KLCSAFACPTSNLQIIGLWKWQYPVQIRKLL EEVQLLKPRVVIDGSWHSFDEDDRYWWKN

>sp|Q8WX94|NALP7\_HUMAN NACHT, LRR and PYD domains-containing protein 7 OS=Homo sapiens  
GN=NLRP7 PE=1 SV=1

MTSPQLEWTLQTLLEQLNEDELKSFKSLLWAFPLEDVLQKTPWSEVEEADGKKLAELVN  
TSENWIRNATVNILEEMNLTELCKMAKAEMMEDGQVQEIDNPELGDAEEDSELAKPGEK  
EGWRNSMEKQSLVWKNTFWQGDIDNFHDDVTLRNQRFIPFLNPRTPRKLTPYTVVLHGPA  
GVGKTTLAKKCMLDWTDCNLSPTLRYAFYLSCKELSRMGPCSFAELISKDWPELQDDIPS  
ILAQAQRILFVVDGLDELKVPPGALIQDICGDWEKKKPVVPVLLGSLLKRKMLPRAALLVT



TRPRALRDLQLLAQQPIYVRVEGFLEEDRRAYFLRHFGDEDQAMRAFELMRSNAALFQLG  
SAPAVCWIVCTTLKLQMEKGEDPVPTCLTRTGLFLRFLCSRFPQGAQLRGALRTLSELLAA  
QGLWAQMSVFHREDLERLGVQESDLRLFLDGDILRQDRVSKGCYSFIHLSFQQFLTALFY  
ALEKEEGEDRDGHAWDIGDVQKLLSGEERLKNPDLIQVGHFLFGLANEKRAKELEATFGC  
RMSPDIKQELLQCKAHLHANKPLSVTDLKEVLGCLYESQEEELAKVVVAPFKEISIHNTN  
TSEVMHCSFSLKHCQDLQKLSLQVAKGVFLENYMDFELDIEFERCTYLTIPNWARQDLRS  
LRLWTFCSLFSNSNLKFLEVKQSFLSDSSVRILCDHVTRSTCHLQKVEIKNVTPDTAY  
RDFCLAFIGKKTTLHTLAGHIEWERTMMLMLCDLLRNHKNLQYLRLGGHCATPEQWAE  
FFYVLKANQSLKHLRLSANVLLDEGAMLLYKTMTRPKHFLQMLSENCRLTEASCKDLAA  
VLVSKKLTHLCLAKNPIGDTGVKFLCEGLSYPDCKLQTLVLQQCSITKLGCRYLSEALQ  
EACSLTNLDLSINQIARGLWILCQALENPNCNLKHLRLKTYETNLEIKKLLEEVKEKNPK  
LTIDCNASGATAPCCDFFC

>sp|Q8N7R0|NANG2\_HUMAN Putative homeobox protein NANOG2 OS=Homo sapiens GN=NANOGP1 PE=5  
SV=1

MDLP IQSDHDSSTSPK GKQPTTAEKSATKKEDKVPVKKQKTRTVFSSTQLCVLNDRFQRQ  
KYLSLQQMQELSNILNLSYKQVKTWFQNRMKSKRWQKNNWLKNSNGVTQGCLVNPTGNL  
PMWSNQTTWNNSTWSNQTNISWSNHSWNTQTWCTQSWNNQAWNSPFYNCGEESLQSCMQ  
FQPNSPASDLQAALAAAGEGLNVIQQTTRYFNTPTMDLFLNYSNMMPEDV

>sp|Q9H9S0|NANOG\_HUMAN Homeobox protein NANOG OS=Homo sapiens GN=NANOG PE=1 SV=2

MSVDPACPQSLPCFEASDCKESSPMPVICGPEENYPSLQMSAEMPHETVSPSPSSMDL  
LIQDSPDSSTSPK GKQPTSAEKSVAKKEDKVPVKKQKTRTVFSSTQLCVLNDRFQRQKYL  
SLQQMQELSNILNLSYKQVKTWFQNRMKSKRWQKNNWPKNSNGVTQKASAPTYSLYSS  
YHQGCLVNPTGNLPMWSNQTTWNNSTWSNQTNISWSNHSWNTQTWCTQSWNNQAWNSPF  
YNCGEESLQSCMQFQPNSPASDLAAALAAAGEGLNVIQQTTRYFSTPTMDLFLNYSNM  
QPEDV

>sp|Q6IQ20|NAPEP\_HUMAN N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D  
OS=Homo sapiens GN=NAPEPLD PE=1 SV=2

MDENESNQLMTSSQYPKEAVRRQRNSARNSGASDSSRFSRKSFKLDYRLEEDVTKSKKG  
KDGRFVNPWPWTWKNPSIPNVLRWLIMEKDHSSVPSSKEELDKELPVLKPYFITNPEEAGV  
REAGLRVTWLGHATVMVEMDELIFLTDPIFSSRASPSQYMGPKRFRSPCTISELPPIDA  
VLISHNHYDHLNYSVIALNERFGNELRWVPLGLDWMQKCGCENVIELDWEEENCVP  
HDKVTFVFTPSQHWCKRTLMDNKNVLWGSWSVLGPWNRFFFAGDTGYCPAFEEIGKRFGP  
FDLAAPIGAYEPRWFMKYQHVDPEEAVRIHTDVQTKKSMAIHWGTFALANEHYLEPPVK  
LNEALERYGLNAEDFFVLKHGESRYLNNDENF

>sp|Q8N6N6|NATD1\_HUMAN Protein NATD1 OS=Homo sapiens GN=NATD1 PE=1 SV=2

MAHSAAVPLGALEQGCPIRVEHRRRRQFTVRLNGCHDRAVLLYEYVGKRIVDLQHTEV  
PDAYRGRGIKHLAKAALDFVVEEDLKAHLTCWYIQKYVKENPLQYLERLQP

>sp|P41271|NBL1\_HUMAN Neuroblastoma suppressor of tumorigenicity 1 OS=Homo sapiens  
GN=NBL1 PE=1 SV=2

MMRLVLVGAVLPAMLLAAPPPINKLALFPDKSAWCEAKNITQIVGHSGCEAKSIQNRACL  
GQCFSYSVPNTFPQSTESLVHCDSCMPAQSMWEIVTLECPGHEEVPRVDKLVEKILHCSC  
QACGKEPSHEGLSVYVQGEDGPGSQPGTHPHPHPHPGGQTPEPEDPPGAPHTEEEGAE

D

>sp|Q9H094|NBPF3\_HUMAN Neuroblastoma breakpoint family member 3 OS=Homo sapiens GN=NBPF3  
PE=2 SV=1

MPLTPTVQGFQWTLRGPVETSPFGAPRAASHGVGRHQELRDPTVPGPTSSATNVSMVVS  
AGPWSGEKAEMNILEINKSRPQLAENKQQFRNLKQKCLVTQVAYFLANRQNNYDYEDCK  
DLIKSMLRDERLLTEEKLAEEELGQAEELRQYKVLVHSQERELTQLREKLQEGRDASRSLN  
QHLQALLTPDEPDNSQGRDLREQLAEGCRLAQHLVQKLSPENDDEDEDVKVEEAKEVQE  
LYAPREVQKAAEKEVPEDSLEECAITCSNSHHPCESNQPYGNTRITFEEDQVDSTLIDSS  
SHDEWLDAVCIIPENESDHEQEEEEKGPVSPRNLQESEEEEAPQESWDEGDWTLSSIPDMS  
ASYQSDRSTFHSVEEQVGLALDIGRHWCDQVKKEDQEATSPRLSRELLDEKEPEVLQDS  
LDRFYSTPFEYLELPDLCPYRSDFYSLQEHLGLALDLRMKKDQEEEEEQGGPPCPRLS  
RELPEVVEPEDLQDSLDRWYSTPFSYPELPDSCQPYGSCFYSLSEEHVGFSLDVDEIEKY  
QEGEEDQKPPCPRLNEVLMEAEPEVLQDSLDRCYSTTSTYFQLHASFQQYRSFYFEE  
QDVSLALDVDNRFFTLTVIRHHLAFQMGVIFPH

>sp|Q8NCQ3|NC301\_HUMAN Putative uncharacterized protein encoded by LINC00301 OS=Homo  
sapiens GN=LINC00301 PE=5 SV=1

MPSSHIVLKEETRMGLMYAIWMNLNSFGLAIIGILLIACEIILFLTKDETIQWPHVPSN  
RGSKANLILKELQLLVRSTWWFHRETAQRTCLYLA

>sp|Q969V3|NCLN\_HUMAN Nicalin OS=Homo sapiens GN=NCLN PE=1 SV=2

MLEEAGEVLENMLKASCLPLGFIVFLPAVLLLVAPPLPAADAAHEFTVYRMQQYDLQGQP  
YGTRNAVLNTEARTMAAEVLSRRCVLMRLLDfsyEQYQKALRQSAGAVVILPRMAAVP  
QDVVRQFMEIEPEMLAMETAVPVYFAVEDEALLSIYKQTQAASASQGSASAAEVLLRTAT  
ANGFQMTSGVQSKAVSDWLIASVEGRLTGLGGEDLPTIVIVAHYDAFGVAPWLSLGADS  
NGSGVSVLLELARLFSRLYTYKRTHAAYNLLFFASGGGKFNYQGTKRWLEDNLDHTDSSL  
LQDNVAFVLCCLTVGRGSSLHLHVS KPPREGTLQHAFLRELETVAAHQFPEVRFSMVHKR  
INLAEDVLAWEHERFAIRRLPAFTLSHLESHRDGQRSSIMDVRSRVDSKTLTRNTRIAE  
ALTRVIYNLTEKGTPDMPVFTEQMIIQQEQQLDSVMDWLTNQPRAAQLVDKDSTFLSTLE  
HHLSRYLKDVKQHHVKADKRDPEFVFYDQLKQVMNAYRVKPAVFDLLAVGIAAYLGMAV  
VAVQHFSLLYKTVQRLLVKAKTQ

>sp|075414|NDK6\_HUMAN Nucleoside diphosphate kinase 6 OS=Homo sapiens GN=NME6 PE=1 SV=3

MASILRSPQALQLTLALIKPDAVAHPLILEAVHQQILSNKFLIVRMRELLWRKEDCQRFY  
REHEGRFFYQRLVEFMASGPIRAYILAHKDAIQLWRTLMGPTRVFRARHVAPDSIRGSFG  
LTDTRNTHTGSDSVVSASREIAAFFPDFSEQRWYEEEPQLRCGPVCYSPEGGVHYVAGT  
GGLGPA

>sp|060361|NDK8\_HUMAN Putative nucleoside diphosphate kinase OS=Homo sapiens GN=NME2P1  
PE=5 SV=1

MQCGLVGKIIKRFEQKGFRLVAMKFLPASEEHLKQHYIDLKDRPFFPGLVKYMNSGPVVA  
MVWEGLNvvKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLRFK  
PEELVDYKSCAHDWVYE

>sp|P49821|NDUV1\_HUMAN NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial  
OS=Homo sapiens GN=NDUFV1 PE=1 SV=4

MLATRRLGWSLPARVSVRFSGDTTAPKTSFGSLKDEDRIFTNLYGRHDWRLKGSLSRG  
DWYKTKEILLKGPDWILGEIKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKYLVVNADEG  
EPGTCKDREILRHPHKLLEGCLVGGRAMGARAAYIYIRGEFYNEASNLQVAIREAYEAG  
LIGKNACGSGYDFDVVVRGAGAYICGEETALIESIEGKQKPKLPFPADVGVFGCPT

TVANVETVAVSPTICRRGGTWFAFGGRERNSGTKLFNISGHVNHPCVVEEEMSVPLKELI  
EKHAGGVTTGGWNNLAVIPGGSSTPLIPKSV CETVLMDFDALVQAQTGLGTA AVIVMDRS  
TDIVKAIARLIEFYKHESCGQCTPCREGVDWMNKVMARFVRGDARPAEIDSLWEISKQIE  
GHTICALGDGAAPVQGLIRHFRPELEERMQRFAQQHQARQAAS

>sp|P29120|NEC1\_HUMAN Neuroendocrine convertase 1 OS=Homo sapiens GN=PCSK1 PE=1 SV=2

MERRAWSLQCTAFVLFCAWCALNSAKAKRQFVNEWAAEIPGGPEAASATAEELGYDLLGQ  
IGSLENHYLFKHKNHPRRSRRSAFHITKRLSDDDRVIWAEQQYEKERSKRSALRDSALNL  
FNDPMWNQQWYLLQDTRMTAALPKLDLHVIPVWQKGITGKGVVITVLD DGLEWNHTDIYAN  
YDPEASYDFNDNDHDPFPRYDPTNENKHGTRCAGEIAMQANNHKCGVGVA YNSKVG GIRM  
LDGIVTDAIEASSIGFNP GHVDIYSASWGPND DGKTVEGPGR LAQKAF EYGVKQGRQKG  
SIFVWASGNGGRQGDNCDCDGYTDSIYTISSASQQGLSPWYAEKCSSTLATSYS SGDY  
TDQRITSADLHNDCTETHTGTSASAPLAAGIFALALEANPNLTWRDMQHLVVWTSEYDPL  
ANNPGWKKNAGLMVNSRFGFGLLNAKALVDLADPRTWRSVPEKKECVKDNDFEP RALK  
ANGEVIEIPTRACEGQENAIKSLEHVQFEATIEYSRRGDLHVLTLSAAGTSTVLLAERE  
RDTSPNGFKNWDFMSVHTWGENPIGTWTLRITDMSGRIQNEGRIVNWKLILHGTSSQPEH  
MKQPRVYTSYNTVQNDRRGVEKMVDPGEEQPTQENPKENTLVSKSPSSSSVGGRRDELEE  
GAPSQAMLRLQLSAFSKNSPPKQSPKSPSAKLNI PYENFYEALEKLNKPSQLKDS EDSL  
YNDYVDVFYNTKPYKHRDDRLLQALVDILNEEN

>sp|Q8N987|NECA1\_HUMAN N-terminal EF-hand calcium-binding protein 1 OS=Homo sapiens  
GN=NECAB1 PE=1 SV=1

MEDSQETSPSSNNSSEELSSALHLSKGMSIFLDILRRADKNDGKLSFEEFKAYFADGVL  
SGEELHEL FHTIDTHNTNLDTEELCEYFSQHLGEYENVLAALEDLNL SILKAMGKTKKD  
YQEASNL EQFVTRFLKETLNQLQSLQNSLECAME TTEEQTRQERQGP AKPEVLSIQWPG  
KRSSRRVQRHNSFSPNSPQFNVSGPGLLEEDNQWMTQINRLQKLIDRLEKKDLKLEPPEE  
EII EGTKSHIMLVQRQMSVIEEDLEEFQLALKHYVESASSQSGCLRISIQKLSNESRYM  
IYEFWENSSVWNSHLQTNYSKTFQRSNVDFLETPELTSTMLVPASWWILNN

>sp|Q8TD19|NEK9\_HUMAN Serine/threonine-protein kinase Nek9 OS=Homo sapiens GN=NEK9 PE=1  
SV=2

MSVLGEYERHCDSINSDFGSESGCGDSSPGPSASQGPAGGGAAEQEELHYIPIRVLGR  
GAFGEATLYRRTEDDSL VVWKEVDLTRLSEKERRDALNEIVILALLQHDNIIAYNHFMD  
NTLLIELEYCNGGNLYDKILRQKDKLFEEEMVVWYLFQIVSAVSCIHKAGILHRDIKTL  
NIFLTKANLIKLDGYGLAKKLNSEYSMAETLVGTPYYMSPELCQGVKYNFKSDI WAVGCV  
IFELLTLKRTFDATNPLNLCVKIVQGIRAMEVDSSQYSLELIQMVHSCLDQDPEQRPTAD  
ELLDRPLLKR RREMEEKVTLLNAPT KRPRSSTVTEAPIAVVTSRTSEVYVWGGGKSTPQ  
KLDVIKSGCSARQVCAGNTHFAVVTVEKELYTWVNMQGGTKLHGQLGHGDKASYRQPKHV  
EKLQGKAIRQVSCGDDFTVCVTDEGQLYAFGSDYYGCMGVDKVAGPEVLEPMQLNFFLSN  
PVEQVSCGDNHVVLTNRNKEVYSWGCGEYGRGLDSEEDYYTPQKVDVPKALII VAVQCG  
CDGTFLLTQSGKVLACGLNEFNKLGLNQCM SGIINHEAYHEVPYTTSTFLAKQLSFYKIR  
TIAPGKTHTA AIDERGRLLTFGCNKCGQLGVGNYKKRLGINLLGGPLGKQVIRVSCGDE  
FTIAATDDNHIFAWGNGNGRLAMTPTERPHGSDICTSWPRPIFGSLHHVPDLSCRGWHT  
ILIVEKVLNSKTI RSNSSGLSIGTVFQSSSPGGGGGGGGGEEEDSQQESETPDPSGGFRG  
TMEADRGMEGLISPT EAMGNSNGASSCPGWL RKELENAEFIPMPD SPSPLSAAFSESEK  
DTLPYEELQGLKVASEAPLEHKPQVEASSPRLNPAVTCAGKGTPLTPPACACSSLQVEVE  
RLQGLVLKCLAEQQLQQENLQIFTQLQKLNKKLEGGQQVGMHSGKTQTAKEEMEMDPKP

DLDSDSWCLLGTDSCRPSL

>sp|O14524|NEMP1\_HUMAN Nuclear envelope integral membrane protein 1 OS=Homo sapiens  
GN=NEMP1 PE=1 SV=2

MAGGMKVAVSPAVGPGPWGSGVGGGTVRLLLILSGCLVYGTAETDNNVVMLQESQVCEK  
RASQQFCYTNVLIPKWHDIWTRIQIRVNSSRLVRVTQVENEEKLKELEQFSIWNFFSSFL  
KEKLNDTYVNVGLYSTKTCLKVEIEKDTKYSVIVIRRFDPKLFLVFLGLMLFFCGDLL  
SRSQIFYYSTGMTVGIVASLLIIIFILSKFMPKKSPIYVILVGGWSFSLYLIQLVFKNLQ  
EIWRCYWQYLLSYVLTVGFMSFAVCYKYGPLENERSINLLTWTLQLMGLCFMYSGIQIPH  
IALAIIIIALCTKNLEHPIQWLYITCRKVCKGAEKVPPRLLTEEEYRIQGEVETRKALE  
ELREFCNSPDCSAWKTVSRIQSPKRFADFVEGSSHLTPNEVSVHEQEYGLGSIIAQDEIY  
EEASSEEDSYSRCPAITQNNFLT

>sp|Q92859|NEO1\_HUMAN Neogenin OS=Homo sapiens GN=NEO1 PE=1 SV=2

MAAERGARRLLSTPSFWLYCLLLLGRRAPGAAAARSGSAPQSPGASIRTFTPFYFLVEPV  
DTLSVRGSSVILNCSAYSESPKIEWKKDGTFLNLVSDDRRQLLPDGSFLISNVVHSHKN  
KPDEGYQC VATVESLGTIIISRTAKLIVAGLPRFTSQPEPSSVYAGNNAILNCEVNADLV  
PFVRWEQNRQPLLLDDRVIKLP SGMLVISNATEGDGLYRCVVESGGPPKYSDEVELKVL  
PDPEVISDLVFLKQPSPLVRVIGQDVVLPCVASGLPTPTIKWMKNEEALDTESSERLVLL  
AGGSLEISDVTEDDAGTYFCIADNGNETIEAQAE LTVQAQPEFLKQPTNIYAHESMDIVF  
ECEVTGKPTPTVKWVKN GDMVIPSDFYKIVKEHNLQVLGLVKSDEGFYQCAENDVGNAQ  
AGAQLIIIEHAPATTGPLSAPRDVVASLVSTRFIKLTWRTPASDPHGDNLTVSVFYTKE  
GIARERVENTSHPGEMQVTIQNLMPATVYIFRVMAQNKHSGESSAPLRVETQPEVQLPG  
PAPNLRAYAASPTSITVTWETPVSGNGEIQNYKLYMEKGT DKEQDQDVSSHSYTINGLK  
KYTEYSFRVVAYNKHGPGVSTPDVAVRTLSDVPSAAPQNLSLEVRNSKSIIMHWQPPAPA  
TQNGQITGYKIRYRKASRKSDVTETLVSGTQLSQLIEGLDRGTEYNFRVAALTINGTGA  
TDWLSAETFESDLDETRVPEVPSSLHVRPLVTSIVVSWTPPENQNI VVRGYAIGYGIGSP  
HAQTIKVDYKQRYYT IENLDPSSHVITLKAFNNVGEIPLYESA VTRPHTDTSEVDLFV  
INAPYTPVPDPTPMMPPVG VQASILSHDTIRITWADNSLPKHQKITDSRYTTRWKTNIP  
ANTKYKNANATLSYLVTGLKPNTLYEFSVMVTKGRSSTWSMTAHGTT FELVPTSPPKD  
VTVVSKEGKPKTII VNWQPPSEANGKITGYIIYYSTDVNAE IHDWVIEPVVGNRLTHQIQ  
ELTLDTPYYFKIQARNSKGMGP MSEAVQFRTPKADSSDKMPNDQASGSGGKSRLPDLGS  
DYKPPMSGSNSPHGSPTSPLDSNMLLVIIIVSVGVITIVVVVIIAVFCTRRTTSHQKKKRA  
ACKSVNGSHKYKGN SKDVKPPDLWIHHERLELKPIDKSPDPNPIMTDTPIPRNSQDITPV  
DNSMDSNIHQRRNSYRGHESEDSMSTLAGRRGMRPKMMMPFDSQPPQPVISAHP IHSLDN  
PHHHFHSSSLASPARSHLYHPGSPWPIGTSM SLSDRANSTESVRNTPSTDTMPASSSQTC  
CTDHQDPEGATSSSYLASSQEEDSGQLPTAHVRPSHPLKSF AVPAIPPPGPPTYDPALP  
STPLLSQQALNHHIHSVKTASIGTLGRSRPPMPVVVPSAPEVQETTRMLEDSSESSYEPDE  
LTKEMAHLEGLMKDLNAITTA

>sp|Q8N9A8|NEP1\_HUMAN Nuclear envelope phosphatase-regulatory subunit 1 OS=Homo sapiens  
GN=CNEP1R1 PE=1 SV=1

MNSLEQAEDLKAFERRLTEYIHCLQPATGRWRMLLIVSVCTATGAWNWLIDPETQKVSF  
FTSLWNHPFFTISCITLIGLFFAGIHKRVVAPSIIAARCRTVLAEYNMSCDDTGKLILKP  
RPHVQ

>sp|P17677|NEUM\_HUMAN Neuromodulin OS=Homo sapiens GN=GAP43 PE=1 SV=1

MLCCMRRTKQVEKNDDQKIEQDG IKPEDKAHKAATKIQASFRGHITRKKLKGEKKDDVQ

AAEAEANKKDEAPVADGVEKKGEGTTTAAEAPATGSKPDEPGKAGETPSEEKKGEGDAAT  
EQAAPQAPASSEKAGSAETESATKASTDNSPSSKAEDAPAKEEPKQADVPAAVTAAAAT  
TPAAEDAAAKATAQPPTTETGESSQAEENIEAVDETKPKESARQDEGKEEEPEADQEHA

>sp|Q99519|NEUR1\_HUMAN Sialidase-1 OS=Homo sapiens GN=NEU1 PE=1 SV=1

MTGERPSTALPDRRWGPRILGFWGGCRVWVFAAIFLLLSLAASWSKAENDFGLVQPLVTM  
EQLLWVSGRQIGSVDTFRIPLITATPRGTLAFAEARKMSSSDEGAKFIALRRSMDQGST  
WSPTAFIVNDGDVPDGLNLGAVVSDVETGVVFLFYSLCAHKAGCQVASTMLVWSKDDGVS  
WSTPRNLSLDIGTEVFAPGPGSGIQKQREPRKGRLIVCGHGTLERDGVFCLLSDDHGASW  
RYGSGVSGIPYGQPKQENDFNPDECQPYELPDGSSVINARNQNNYHCHCRIVLRSYDACD  
TLRPRDVTFDPELVDPVVAAGAVVTSSGIVFFSNPAHPEFRVNLTLRWSFSNGTSWRKET  
VQLWPGPSGYSSLATLEGSMDGEEQAPQLYVLYEKGRNHYTESISVAKISVYGTL

>sp|Q9Y3R4|NEUR2\_HUMAN Sialidase-2 OS=Homo sapiens GN=NEU2 PE=1 SV=2

MASLPVLQKESVFQSGAHAYRIPALLYLPGQQSLLAFAEQRASKKDEHAELIVLRGDYD  
APTHQVQWQAQEVVAQARLDGHRSMNPCPLYDAQTGTLFLFFIAIPGQVTEQQQLQTRAN  
VTRLCQVTSTDHGRTWSSPRDLTDAIIGPAYREWSTFAVGPCHCLQLHDRARSLVPAYA  
YRKLHPIQRPIPSAFCFLSHDHGRTWARGHFVAQDTLECQVAEVETGEQRVVTLNARSHL  
RARVQAQSTNDGLDFQESQLVKKLVEPPPQGCQGSVISFSPSRSGPGSPAQWLLYTHPTH  
SWQRADLGAYLNRPPAPEAWSEPVLLAKGSCAYSDDLQSMGTGPDGSPLFGCLYEANDYE  
EIVFLMFTLKQAFPAEYLPQ

>sp|Q9NXR1|NDE1\_HUMAN Nuclear distribution protein nudE homolog 1 OS=Homo sapiens GN=NDE1  
PE=1 SV=2

MEDSGKTFSSSEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEALETQLQQIETR  
NRDLSSENRLRMELETIKEFEVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQA  
NDDLERAKRATIMSLEDFEQLNQAIERNAFLESELDEKENLLESVQRLKDEARDLRQEL  
AVQQKQEKPRTPMPSSVEAERTDTAVQATGSPSTPIAHRGPSSSLNTPGSFRRGLDDST  
GGTPLTPAARISALNIVGDLLRKVGALSKLASCRNLVYDQSPNRTGGPASGRSSKNRDG  
GERRPSSTSVPLGDKGLGKRLEFGKPPSHMSSSPLPSAQGVVKMLL

>sp|Q13562|NDF1\_HUMAN Neurogenic differentiation factor 1 OS=Homo sapiens GN=NEUROD1 PE=1  
SV=3

MTKSYSESGLMGEPQPGPPSWTDECLSSQDEEHEADKKEDDLETMNAEEDSLRNGGEEE  
DEDEDLEEEEEEEEEEDDQPKRRGPKKKKMTKARLERFKLRRMKANARERNRMHGLNAA  
LDNLRKVVPYCYSKTQKLSKIETLRLAKNYIWALSEILRSGKSPDLVSFVQTLCKGLSQPT  
TNLVAGCLQLNPRTFLPEQNQDMPPHLPTASASFPVHPYSYQSPGLSPPPYGTMDSSHVF  
HVKPPPHAYSAALEPFFESPLTDCTSPSFDGPLSPPLSINGNFSFKHEPSAEFEKNYAFT  
MHYPAATLAGAQSHGSIFSGTAAPRCEIPIDNIMSFDSHSHHERVMSAQLNAIFHD

>sp|P56556|NDUA6\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6  
OS=Homo sapiens GN=NDUFA6 PE=1 SV=3

MGKDIRPRSARAACKGVGLWSGCFGKMAGSGVRQATSTASTFVKPIFSRDMNEAKRRVRE  
LYRAWYREVPNTVHQFQLDITVKMGRDKVREMFMKNAHVTDPRVVDLLVIKKGIELEETI  
KVWKQRTHVMRFFHETEAPRPKDFLSKFYVGHP

>sp|O75306|NDUS2\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 2,  
mitochondrial OS=Homo sapiens GN=NDUFS2 PE=1 SV=2

MAALRALCGFRGVAAQVLRPGAGVRLPIQPSRGVRQWQPDVEWAQQFGGAVMYPKETAH  
WKPPPWNVDPPKDTIVKNITLNFQHPAAHGVLRRLVMELSGEMVRKCDPHIGLLHRGT

EKLIEYKTYLQALPYFDRLDYVSMCNEQAYSLAVEKLLNIRPPRAQWIRVLFGEITRL  
LNHIMAVTTHALDLGAMTPFFWLFEEREKMFIFYERVSGARMHAAYIRPGGVHQDLPLGL  
MDDIYQFSKNFSLRLDELEELLTNRIWRNRTIDIGVVTAEALNYGFSGVMLRGSGIQW  
DLRKTQPYDVYDQVEFDVPVSGRGDCYDRYLCRVEEMRQSLRIIAQCLNKMPPEIKVDD  
AKVSPPKRAEMKTSMESLIHHFKLYTEGYQVPPGATYTAIEAPKGEFGVYLVSDGSSRPY  
RCKIKAPGFAHLAGLDKMSKGHMLADVVAIIGTQDIVFGEVDR

>sp|Q96FI4|NEIL1\_HUMAN Endonuclease 8-like 1 OS=Homo sapiens GN=NEIL1 PE=1 SV=3

MPEGPELHLASQFVNEACRALVFGGCVKESSVSRNPEVPFESSAYRISASARGKELRLIL  
SPLPGAQPQQEPLALVFRFGMSGSFQLVPREELPRHAHLRFYTAPGPRALALCFVDIRRF  
GRWDLGGKWQPGRGPCVLQEYQQFRENVLRLADKAFDRPICEALLDQRFENGIGNYLR  
EILYRLKIPPFKARSVLEALQQHRPSPELTLSQKIRTKLQNPDLLELCHSVPEVVQLG  
GKGYGSESGEEDFAAFRAWLRCYGMPSLQDRHGRTIWFQGDGPLAPKGRKSRKKKS  
KATQLSPEDRVEDALPPSKAPSRTRAKRDLPKRTATQRPEGTSLQQDPEAPTVPKKGRR  
KGRQAASGHCRPRKVKADIPSLEPEGTSAS

>sp|Q8TAT5|NEIL3\_HUMAN Endonuclease 8-like 3 OS=Homo sapiens GN=NEIL3 PE=1 SV=3

MVEGPGCTLNGEKIRARVLPQAVTGVRGSALRSLQGRALRLAASTVVVSPQAAALNDS  
SQNVLSLFNGYVYSGVETLGKELFMYFGPKALRIHFGMKGFIMINPLEYKYKNGASPVLE  
VQLTKDLICFFDSSVELRNSMESQQRIRMMKELDVCSPEFSFLRAESEVKKQKGRMLGDV  
LMDQNVLPGVGNIKNEALFDSGLHPAVKVCQLTDEQIHHLMKMIRDFSILFYRCRKAGL  
ALSKHYKVYKRPNCGQCHCRITVCRFGDNNRMITYFCPHCQKENPQHVDICKLPTRNTIIS  
WTSSRDVHMDSVARKSEEHWTVCVCTLINKPSSKACDACTSRPIDSVLKSEENSTVFS  
HLMKYPCNTFGKPHTEVKINRKTAFGTTTLVLTDFSNSSTLERKTKQNQILDEEFQNSP  
PASVCLNDIQHPSKKTNDITQPSSKVNISPTISSESKLFSAPHKPKTAQYSSPELKSC  
NPGYSNSELQINMTDGPRTLNPDSPRCSKHNLRCILRVVGKDGENKGRQFYACPLPREAQ  
CGFFEWAADLSFPCNHGKRSTMTVLKIGPNNGKNFFVCPLGKEKQCNFFQWAENGP  
GIK IIPGC

>sp|P51956|NEK3\_HUMAN Serine/threonine-protein kinase Nek3 OS=Homo sapiens GN=NEK3 PE=1 SV=2

MDDYMLRMIGESFGRALLVQHESSNQMFAMKEIRLPKSFSNTQNSRKEAVLLAKMKHP  
NIVAFKESFEAEGHLYIVMEYCDGGDLMQKIKQQKGKLPEDMILNWFTQMCLGVNHIHK  
KRVLHRDIKSKNIFLTQNGKVKLGDGFSARLLSNPMAFACTYVGTPIYVPPEIWIENLPYN  
NKSDIWSLGCILYELCTLKHPFQANSWKNLILKVCQGCISPLPSHYSYELQFLVKQMFKR  
NPSHRPSATTLLSRGIVARLVQKCLPPEIIMEYGEEVLEEIKNSKHNTPRKKTNP  
SRIRI ALGNEASTVQEEQDRKGSHTDLESINENLVESALRRVNREEKGNKSVHLRKASSPNLHR  
RQWEKNVPNTALTALENASILTSSLTAEDDRGGSVIKYSKNTTRKQWLKETPD  
TLLNILK NADLSLAFQTYTIYRPGSEGFLKGPLSEETEASDSVDGGHDSVILDPERLEPGLDEEDTD  
FEEEDNDPDWVSELKKRAGWQGLCDR

>sp|Q8IXH7|NELFD\_HUMAN Negative elongation factor C/D OS=Homo sapiens GN=NELFCD PE=1 SV=2

MAGAVPGAIMDEYYGSAAEWGDEADGGQGEDDSGEEDDAEVQQECLHKFSTRDYIMEP  
SIFNTLKRYFQAGGSPENVIQLLSENYTAVAQTVNLLAEWLIQTGVEPVQVQETVENHLK  
SLLIKHFDPRKADSIFFTEGETPAWLEQMI AHTTWRDLFYKLAEHPDCLMLNFTVKLIS  
DAGYQGEITSVSTACQQLVFSRVLRTSLATILDGGEENLEKNLPEFAKMVCHGEHTYLF  
AQAMMSVLAQEEQGSASVRRIAQEVQRFAQEKGHDSQITLALGTAASYPRACQALGAML  
SKGALNPADITVLFKMFTSMDPPPVELIRVPAFLDLFMQSLFKPGARINQDHHKHYIHIL

AYAASVVETWKKNKRVSIKDELKSTSKAVETVHNLCCNENKGASELVAELSTLYQCIRF  
PVVAMGVLKWVDWTVSEPRYFQLQTDHTPVHLALLDEISTCHQLLHPQVLQLLVKLFETE  
HSQLDVMEQLELKKTLDRMVHLLSRGYVLPVVSYIRKCLEKLDTDISLIRYFVTEVLDV  
IAPPYTSDFVQLFLPILENDIAGTIKTEGEHDPVTEFIAHCKSNFIMVN

>sp|Q92686|NEUG\_HUMAN Neurogranin OS=Homo sapiens GN=NRGN PE=1 SV=1  
MDCCTENACSKPDDILDIPDDPGANAAAAKIQASFRGHMARKKIKSGERGRKGPGPGG  
PGGAGVARGGAGGGPSGD

>sp|Q99574|NEUS\_HUMAN Neuroserpin OS=Homo sapiens GN=SERPINI1 PE=1 SV=1  
MAFLGLFSLLVLQSMATGATFPEEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGMM  
ELGAQGSTQKEIRHSMGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHV  
NEEFLQMMKKYFNAAVNHVDFSQNVAVANYINKWVENNTNNLVKDLVSPRDFDAATYLAL  
INAVYFKGNWKSQFRPENTRTFSFTKDESEVQIPMMYQQGEFYFGEFSDGSNEAGGIYQ  
VLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRFTVEQE  
IDLKDLKALGITEIFIKDANLTGLSDNKEIFLSKAIHKSFLEVNEEGSEAAAVSGMIAI  
SRMAVLYPQVIVDHPFFFLIRNRTGTILFMGRVMHPETMNTSGHDFEEL

>sp|O95644|NFAC1\_HUMAN Nuclear factor of activated T-cells, cytoplasmic 1 OS=Homo sapiens  
GN=NFATC1 PE=1 SV=3

MPSTSFPVPSKFPLGPAAAVFGRGETLGPAPRAGGTMKSAEEEHYGYASSNVSPALPLPT  
AHSTLPAPCHNLQTSTPGIIPPADHPSGYGAALDGGPAGYFLSSGHTRPDGAPALESPRI  
EITSCGLGYHNNNQFFHDVEVEDVLPSSKRSPSTATLSLPSLEAYRDPSCLSPASSLSSR  
SCNSEASSYESNYSYPYASPQTSPWQSPCVSPKTTDPEEGFPRGLGACTLLGSPRHSPST  
SPRASVTEESWLGARSSRPASPCNKRYSLNGRQPPYSPHHSPTSPHGSPPRVSVTDDSW  
LGNTTQYTSSAIVAAINALTTDSSLDLGDGVPVKSRTTLEQPPSVALKVEPVGEDLGSP  
PPPADFAPEDYSSFQHIRKGGFCDQYLAVPQHPYQWAKPKPLSPTSYSPTLPALDWQLP  
SHSGPYELRIEVQPKSHHRAHYETEGSRGAVKASAGGHPIVQLHGYLENEPLMLQLFIGT  
ADDRLLRPFAFYQVHRITGKTVSTTSHEAILSNTKVLEIPLLPENSMRAVIDCAGILKLR  
NSDIELRKGETDIGRKNTRVRLVFRVHVPQPSGRTLSQLVASNPIECSQRSAQELPLVEK  
QSTDSPVVGKKMVLSGHNFLQDSKVI FVEKAPDGHVWEMEAKTDRDLCKPNSLVVEI  
PPFRNQRTISPVHVSFYVCNGKRKRSQYQRFTYLPANVPIIKTEPTDDYEPAPTCPVVSQ  
GLSPLPRPYSSQQLAMPPDPSSCLVAGFPFPCQRSTLMPAAPGVSPKLHDLSPAAYTKGV  
ASPGHCHLGLPQPAGEAPAVQDVPRPVATHPGSPGQPPPALLPQQVSAPPSSSCPPGLEH  
SLCPSSPSPPLPPATQEPTCLQPCSPACPPATGRPQHLPSTVRRDESPTAGPRLLPEVHE  
DGSPNLAPIPVTVKREPEELDQLYLDVNEIIRNDLSSTSTHS

>sp|O94856|NFASC\_HUMAN Neurofascin OS=Homo sapiens GN=NFASC PE=1 SV=4

MARQPPPPWHAFLCLLSLGGATEIPMDPSIQNELTQPPTITKQSAKDHI VDPDNIL  
IECEAKGNPAPSFHWTRNSRFFNIAKDPRVSMRRRSGTLVIDFRSGRP EEEYEGEYQCFA  
RNKFGTALSNRIRLQVSKSPLWPKENLDPVVVQEGAPLTLCNPPPGLPSPVIFWMSSTM  
EPITQDKRVSQGHNGDLYFSNMLQDMQTDYSCNARFHFHTTIQKKNPFTLKVLTTRGVA  
ERTPSFMYPQGTASSQMVLGRMDLLECIASGVPTPDIAWYKKGDLPSDKAKFENFNKA  
LRITNVSEEDSGEYFCLASNKMGSIRHTISVRVKAAPYWLDEPKNLILAPGEDGRLVCRA  
NGNPKPTVQWMVNGEPLQSAPPNPNREVAGDTIIFRDTQISSRAVYQCNTSNEHGYLLAN  
AFVSVLDVPPRMLSPRNQLIRVILYNRTRLDCPFFGSP IPTLRWFKNQGGSNLDGGNYHV  
YENGSL EIKMIRKEDQGIYTCVATNILGKAENQVRLEV KDPTRIYRMPEDQVARRGTTVQ  
LECRVKHDP SLKLT VSWLKDDEPLYIGNRMKKEDDSL TIFGVAERDQGSYTCVASTELDQ

DLAKAYLTVLADQATPTNRLAALPKGRPDPRDLELTDLAERSVRLTWIPGDANNSPITD  
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RTSGAPPESNPGDVKGEGRKNNMEITWTPMNATSAFGPNLRYIVKRRRRETREAWNNT  
VWGSRYVVGQTPVYPYEIRVQAENDFGKGPEPESVIGYSGEDYPRAAPTEVKVRVMNST  
AISLQWNRVYSDTVQGQLREYRAYYWRESSLLKNLWVSQKRQQASFPGDRLRGVVSRLFP  
YSNYKLEMVVVNGRGDGRSETKEFTTPEGVPSAPRRFRVRQPNLETINLEWDHPEHPNG  
IMIGYTLKYVAFNGTKVGKQIVENFSPNQTKFTVQRTDPVSRYRFTLSARTQVGSGEAVT  
EESPAPPNEATPTAAPPTLPPTTVGATGAVSSTDATAIAATTEATTVPPIIPTVAPTTIAT  
TTTATTTTTTAAATTTTSPPTTSGTKIHESAPDEQSIWNVTVLPNSKWANITWKHNF  
GPGTDFVVEYIDSNHTKKTVPVKAQAQPIQLTDLYPGMTYTLRVYSRDNEGISSTVITFM  
TSTAYTNNQADIATQGWFIGLMCAIALLVILLIVCFIKRSRGGKYPVREKKDVPLGPED  
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VKKDKEETEGNESSEATSPVNAIYSLA

>sp|094916|NFAT5\_HUMAN Nuclear factor of activated T-cells 5 OS=Homo sapiens GN=NFAT5  
PE=1 SV=1

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PAVVAADASSAPSSSSMGGACSSFTTSSSPTIYSTSVTDSKAMQVESCSSAVGVSNRGVS  
EKQLTSNTVQQHPSTPKRHTVLYISPPPEDLLDNSRMSCQDEGCLESEQSCSMWMEDSP  
SNFSNMSTSSYNDNTEVPRKSRKRNPQRPQVKKRRDCEESNMDIFDADSAKAPHYVLSQL  
TTDNKGNKAGNGTLENQKGTGVKKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEG  
SRGSVKDRDQGGFPTVKLEGHNEPVVLQVFGVNDSGRVKPHGFYQACRVGTGRNTTPCKEV  
DIEGTTVIEVGLDPSNNMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIM  
RKDGSTLTLTQTPSSILCTQPAQVPEILKSLHSCSVKGEEVFLIGKNFLKGTKVFQ  
NVSDENSWKSEAEIDMELFHQNLIVKVPYHDQHITLPVSVGIYVVTNAGRSHDVQPFT  
YTPDPAAGALNVNVKKEISSPARPCSFEEAMKAMKTTGCNLDKVNIIIPNALMTPLIPSS  
MIKSEDTVMEVTAEKRSSTIFKTTKSVGSTQQTLNISIAGNGSFSSPSSSHLPSENE  
KQQQIQPKAYNPETLTTIQTQDISQPGTFPAVSASSQLPNSDALLQQATQFQTRETQSRE  
ILQSDGTVVNLSQLTEASQQQQQSPLQEQATLQQQISSNIFSPNSVSQQLNTIQQQLQA  
GSFTGTASGSSGSVDLVQQVLEAQQQLSSVLFAPDGNENVQEQLSADIFQQVSQIQSG  
VSPGMFSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQQVMESSAAMVMEM  
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VNLFSTKSMMSVQNSGTQQQGNLGFQQGNEMMSLQSGNFLQQSSHSQAQLFHPQNPIAD  
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>sp|Q16621|NFE2\_HUMAN Transcription factor NF-E2 45 kDa subunit OS=Homo sapiens GN=NFE2  
PE=1 SV=1

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KIVNLPVDDFNELLARYPLTESQLALVRDIRRRGKNKVAQNCRKRLKETIVQLERELE  
LTNERERLLRARGEADRTLEVMRQQLTELYRDIFQHLRDESGNSYSPEEYALQQAADGTI  
FLVPRGTKMEATD

>sp|P12036|NFH\_HUMAN Neurofilament heavy polypeptide OS=Homo sapiens GN=NEFH PE=1 SV=4

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SLPEGLPKIPSVSTHIKVKSEEKIKVVEKSEKETVIVEEQTEETQVTEEVTEEEKEAKE  
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PAEVKSPEKAKSPAEEAKSPPEAKSPEKEEAKSPAEVKSPEKAKSPAEEAKSPAEEAKS  
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PEKEEAKSPEKAKSPVKAEEAKSPEKAKSPVKAEEAKSPEKAKSPVKEEAKSPEKAKSPVKE  
EAKSPEKAKSPVKEEAKTPEKAKSPVKEEAKSPEKAKSPEKAKTLDVKSPEAKTPAKEEA  
RSPADKFPEKAKSPVKEEVKSPEKAKSPLKEDAKAPEKEIPKKEEVKSPVKEEKPQEVK  
VKEPPKAAEEKAPATPKTEKKDSKKEEAPKKEAPKPKVEEKKEPAVEKPKESKVEAKK  
EEAEDKKKVPTPEKEAPAKVEVKEDAKPKETEVAKKEPDDAKAKEPSKPAEKKEAAPEK  
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KAAKGK

>sp|Q12857|NFIA\_HUMAN Nuclear factor 1 A-type OS=Homo sapiens GN=NFIA PE=1 SV=2

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LSEKPEVKQKQWASRLAKLRKDIRPEYREDFVLTVTGKKPPCCVLSNPDQKGKMRRIDCL  
RQADKVWRDLVMVILFKGIPLESTDGERLVKSPQCSNPGLCVQPHHIGVSVKELDLYLA  
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GPNFSLSDLESSSYSMSPGAMRRSLPSTSSSTSKRLKSVEDEMDSPGEEPFTGQGRS  
PGSGSQSSGWHEVEPGMPSPPTTLKKSEKSGFSSPSQTSSTLGTFTQHHRPVITGPRAS  
PHATPSTLHFPTSPIIQQPGPYFSHPAIRYHPQETLKEFVQLVCPDAGQQAGQVGFNP  
GSSQGVHNPFLPTPMLPPPPPPMARPVPLVPDTPPTTSTEGGAASPTSPTYSTPST  
SPANRFVSVGPRDPSFVNIPQQTQSWYLG

>sp|O00712|NFIB\_HUMAN Nuclear factor 1 B-type OS=Homo sapiens GN=NFIB PE=1 SV=2

MMYSPICLTQDEFHPFIEALLPHVRAIAYTWFNLQARKRKYFKKHEKRMSKDEERAVKDE  
LLSEKPEIKQKQWASRLAKLRKDIRQEYREDFVLTVTGKKHPCCVLSNPDQKGKIRRIDC  
LRQADKVWRDLVMVILFKGIPLESTDGERLMKSPHCTNPALCVQPHHITVSVKELDLFL  
AYYVQEQDSGQSGSPSHNDPAKNPPGYLEDSEFVKSGVFNSELVRVSRTPITQGTGVNFP  
IGEIPSPYYHDMNSGVNLQRSLSPPSSKRPKTISIDENMEPSPTGDFYPSPPSPAAGS  
RTWHERDQDMSSPTTMMKPEKPLFSSASPDSSPRLSTFPQHHPGIPGVAHSVISTRTP  
PPPSPLPFPTQAILPPAPSSYFSHTPIRYPPHLNPQDTLKNYVPSYDPSSPQTSQSWYLG

>sp|Q16649|NFIL3\_HUMAN Nuclear factor interleukin-3-regulated protein OS=Homo sapiens  
GN=NFIL3 PE=1 SV=2

MLRKMQTVKKEQASLDASSNVDKMMVLNSALTEVSEDSTTGEELLSEGSVGKNKSSAC  
RRKREFIPDEKKDAMYWEKRRKNNEAAKRSREKRRLNDLVLENKLIALGEENATLKAELL  
SLKLKFG LISSTAYAQEIQKLSNSTAVYFQDYQTSKSNVSSFVDEHEPSMVSSSCISVIK  
HSPQSSSLSDVSEVSSVEHTQESSVQGSCRSPENKFQIIKQEPMELESYTREPRDDRGSYT  
ASIYQNYMGNSFGSYSHSPPLLQVNRSSSNSPRTSETDDGVVGKSSDGEDEQQVPKGPIH  
SPVELKHVHATVVKVPEVNSSALPHKLRIKAKAMQIKVEAFDNEFEATQKLSSPIDMTSK  
RHFLEKHSAPSMVHSSLTPFSVQVTNIQDWSLKSEHWHQKELSGKTQNSFKTGVVEMKD  
SGYKVS DPENLYLKQGIANLSAEVVSLKRLIATQPIASDSG

>sp|Q5JS37|NHLRC3\_HUMAN NHL repeat-containing protein 3 OS=Homo sapiens GN=NHLRC3 PE=2  
SV=1

MARFWVCVAGAGFFLAFLVLHSRFCGSPVLRNFTFAVSWRTEKILYRLDVGWPKHPEYFT  
GTTFCVAVDSLNGLVYIGQRGDNIPKILVFTEDGYFLRAWNYTVDTPHGIFAASTLYEQS  
VWITDVSGSGFFGHTVKYSSFGDLVQVLGTPGKGTSLNPLQFDNPAELYVEDTGDIYIV  
DGDGGLNNRLIKLSQDFMILWLHGENGTGPAKFNIHPSVTLD SAGRVVADRGNKRIQVF  
DKDTGEWLGAWNNCFTEEGPSSVRFTPDGKYLIVAQLNLSRLSVVAAPPVGSIGECVIS  
TIQLADQVLP HLLVD RKTGAVYVAEIGAKQVQKYVPLNSYVPSFGS

>sp|Q5SYE7|NHSL1\_HUMAN NHS-like protein 1 OS=Homo sapiens GN=NHSL1 PE=1 SV=2

MKKEGSSGSFRLQPNTGSLRAVSWINFSSLSRQTKRLFRSDGELSVCGQQVEVDENWI  
YRAQPRKAVSNLDEESRWTVHYTAPWHQQENVFLPTTRPPCEDLHRQAKLNLKSVLREC  
DKLRHDGYRSSQYYSQGPTFAANASPFCDYQDEDEETDQKCSLSSEEERFISIRPKT  
PASSDFSDLNTQTNTKSLPLTPPEEKMRQQAQTVQADVVPINITASGTGQDDADGHSVY  
TPDHYSTLGRFNCSRSAGQRSETRDSSCQTEDVKVVPSPMRRIRAQKGQGIAAQMGMHFGS  
SSGNMSVLSDSAGIVFPSRLDSAGFHS LPRSGARANIQSLEPRLGALGPAGDMNGTFLY  
QRGHPQADENLGH LGGASGTGTLRLPKSQELRHFESENIMSPACVVS PHATYSTSIIPNA  
TLSSSSEVIAIPTAQ SAGQRESKSSGSSHARIKSRDHLISRHAVKGD PQSPGRHWNEGHA  
TILSQDLDPHSPGEPALLSLCDSAVPLNAPANRENGSQAMPYNCRNLA FPAHPQDVDGK  
SESSYSGGGGHSSEPEWEYKSSGNRASPLKPHLATPGYSTPTS NMSSCSLDQTSNKEDA  
GSLYSEDHDGYCASVHTDSGHGSGNL CNSSDGFGNPRHSVINVFVGRAQKNQGDRSNYQD  
KSLSRNISLKKAKKPP LPPSRTSLRRIPKKSSQCNGQVLNESLIATLQHSLQLSLPGKS  
GSSPSQSPCSDL EEPWLPRSRQS TVSAGSSMTSATT PNVYSLCGATPSQSDTSSVKSEY  
TDPWGYIIDYTG MQEDPGNPAGGCSTSSGVPTGNGPV RHVQEGSRATMPQVP GGSVKPKI  
MSPEKSHRVIS PSSGYSSQSNTP TALTPVPVFLKSVSPANGKGKPKPKVPERKSSLISSV  
SISSSSTLS SSTSSTEGSGTMKKLDPAVGSP PAPPVPVSPFP CADRSPFLPPPPPV  
TDCSQGSPLPHSPVFPPPPPEALIPFCSPPDWCLSPRPALSPILPDSPVSLPLPPPLLP  
SSEPPAPPLDPKFMKDTRPPFTNSGQPESSRGS LRPSTKEETS RPPMPLITTEALQMV  
QLRPVRKNSGAEEAQLSERTAQEQRTPVAPQYHLKPSAFLKSRNSTNEMESESQPASVTS  
SLPTPAKSSSQGDHGSAAERGGPVSRSPGAPSAGEAEARSPSTTPLPDSSPSRKPPPI S  
KKPKLFLVPPPPQKDFAVEPAENVSEALRAVPSP TTGEEGSVHSREAKESSAAQAGSHAT  
HPGTSVLEGAAGSMSPSRVEANVPMVQPDVSPAPKQEEPAENSADTGGDGESCLSQQDG  
AAGVPETNAAGSSSEACDFLKEDGNDEVMTPSRPRTTEDLFAAIHRSKRKVLGRRDSDDD  
HSRNHSPSPVPTPTGAAPSLASPKQVGSIQRSIRKSSTSSDNFKALLLKGSRSDTSARM  
SAAEMLKNTDPRFQRSRSEPSDAPESPSSCSPSKNRRAQEEWAKNEGLMPRSLSFSGPR

YGRSRTPPSAASSRYSMRNRIQSSPMTVISEGEGEAVEPVDSIARGALGAAEGCSLDGLA  
REEMDEGGLLCGEGPAASLQPQAPGPVDGTASAEGREPSQCGGSLSEES

>sp|Q8N8Q9|NIPA2\_HUMAN Magnesium transporter NIPA2 OS=Homo sapiens GN=NIPA2 PE=2 SV=1

MSQGRGKYDFYIGLGLAMSSSIFIGGSFILKKKGLRLARKGSMRAGQGGHAYLKEWLWW  
AGLLSMGAGEVANFAAYAFAPATLVTPLGALSVLVSAILSSYFLNERLNLHGKIGCLLSI  
LGSTVMVIHAPKEEEIETLNEMSHKLGDPGFVVFATLVVIVALILIFVVGPRHGQTNILV  
YITICSVIGAFSVSCVKGLGIAIKELFAGKPVLRHPLAWILLLSLIVCVSTQINYLNRL  
DIFNTSIVTPIYYVFFTSVLTCASAILFKEWQDMPVDDVIGTLSGFFTIIVGIFLLHAFK  
DVSFSLASLPVSRKDEKAMNGNLSNMYEVLNNEESLTCGIEQHTGENVSRRNGNLTA

>sp|Q6NVV3|NIPA3\_HUMAN Magnesium transporter NIPA3 OS=Homo sapiens GN=NIPAL1 PE=2 SV=1

MGAQVRLPPGEPCEGEGYVLSLVCNSSQAWCEITNVSQLLASPVLYTDLNYSINNLSISA  
NVENKYSLYVGLVLAVSSSIFIGSSFILKKKGLQLASKGFTRAGQGGHSYLKEWLWWVG  
LLSMGAGEAANFAAYAFAPATLVTPLGALSVLISAILSSYFLNEHLNIHGKIGCILSILG  
STVMVIHAPQEEEVTSHEMEMKLDPGFISFAVIITVISLVLILIVAPKKGTNILVYI  
SICSLIGAFSVSSVKGLGIAIKELIEWKPVYKHPLVFVLLAVLVSVTTQINYLNKALDT  
FNTSLVTPIYYVFFTSMVVTCASAILFQEWYGMTAGDIIGTLSGFFTIIGIFLLHAFKNT  
DITWSELSTAKKEAVSLNVNENNYVLENECSAPGYNDVTLFSRTDD

>sp|Q86WB0|NIPA\_HUMAN Nuclear-interacting partner of ALK OS=Homo sapiens GN=ZC3HC1 PE=1  
SV=1

MAAPCEGQAFVAVGEKNWGAVVRSPEGTPQKIRQLIDEGIAPEEGGVDKDTSATSQSVN  
GSPQAEQPSLESTKEAFFSRVETFSSSLKWAGKPFELSPLVCAKYGWTVECDMLKCSSC  
QAFLCASLQPAFDFFRYKQRCALKKALCTAHEKFCFWPDSPPDRFGMLPLDEPAILVS  
EFLDRFQSLCHLDLQLPSLRPEDLKTMCLETDKISLLLHLEDELHRTDERKTTIKLGS  
DIQVHVTACILSVCGWACSSSLESMLSLITCSQCMRKVGLWGFQQIESSMTDLDAFGL  
TSSPIPGLEGRPERLPLVPESPRMMTRSQDATFSPGSEQAEKSPGPIVSRTRSWDSSSP  
VDRPEEAASPTTRTPVTRSMGTGDTGPLEVPSSPLRKAKRARLCSSSSSDTSSRSFFD  
PTSQHRDWCPWVNITLGKESRENGGTEPDASAPAEPGWKAVLTILLAHKQSSQPAETDSM  
SLSEKSRKVFRIFRQWESLCSC

>sp|P25103|NK1R\_HUMAN Substance-P receptor OS=Homo sapiens GN=TACR1 PE=1 SV=1

MDNVLPVDSLSPNISTNTSEPNQFVQPAWQIVLWAAAYTVIVVTSVVGNNVVMWIIIAH  
KRMRTVTNYFLVNLAFEAASMAAFNTVNFYAVHNEWYYGLFYCKFHNFFPIAAVFASI  
YSMTAVAFDRYMAIIHPLQPRLSATATKVVICVIWVLALLAFPPQGYSTTETMPSRVVC  
MIEWPEHPNKIYEKVYHICVTVLIYFLPLLIGYAYTVVGITLWASEIPGDSSDRYHEQV  
SAKRKVVKMMIVVCTFAICWLPFHIFLLPYINPDLYLKKFIQQVYLAIMWLAMSSTMY  
NPIIYCCLNDRFRLGFKHAFRCPPFISAGDYEGLMKSTRYLQTQGSVYKVSRLTTIST  
VVGAAHEEPEDGPKATPSSLDLTSNCSRSSDSKTMTEFSFSNNVLS

>sp|P29371|NK3R\_HUMAN Neuromedin-K receptor OS=Homo sapiens GN=TACR3 PE=1 SV=1

MATLPAAETWIDGGGGVGADAVNLTASLAAGAATGAVETGWLQLLDQAGNLSSSPSALGL  
PVASPAQSPWANLTNQFVQPSWRIALWSLAYGVVAVAVLGNLIVIIIAHAKRMRTVT  
NYFLVNLAFSDASMAAFNTLVNFIYALHSEWYFGANYCRFQNFPPITAVFASIYSMTAIA  
VDRYMAIIDPLKPRLSATATKIVIGSIWILAFLLAFPPQCLYSKTKVMPGRTLFCVQWPEG  
PKQHFTYHIIIVIIIVYCFLLIMGITYTIVGITLWGGEIPGDTCDKYHEQLKAKRKVVKM  
MIIVMTFAICWLPYHIYFILTAIYQQLNRWKYIQQVYLASFVWLAMSSTMYNPIIYCCLN  
KRFRAGFKRAFRWCPIKVSSEYDELELKTTRFHPNRQSSMYTVTRMESMTVVFDPNADT

TRSSRKKRATPRDPSFNGCSRNSKSASATSSFISSPYTSVDEYS

>sp|Q9H2Z4|NKX24\_HUMAN Homeobox protein Nkx-2.4 OS=Homo sapiens GN=NKX2-4 PE=3 SV=3

MSLSPKHTTFFSVSDILSPIEETYKFKFSGAMDGAPPGLGAPLGAAYRAPPPGPSSQAA  
TVAGMQPSHAMAGHNAAAAAAAAAAAAAAAAATYHMPPGVSQFPHGAMGSYCNGGLGNMGE  
LPAYTDGMRGGAATGWYGANPDPRYSSISRFMGPSAGVNVAGMSLTGIADAAKSLGPLH  
AAAAAAPRRKRRVLFSSQAQVYELERRFKQKYLAPEREHLASMIHLTPTQVKIWFQNH  
RYMKRQAKDKAAQQLQEQEGLGPPPPPPSPRRVAVPVLVKDGKPCQNGASTPTPGQAG  
PQPPAPTAPAELEELSPSPPALHGPGGGLAALDAAAGEYSGGVLGANLLYGRTW

>sp|A6NJ46|NKX63\_HUMAN Homeobox protein Nkx-6.3 OS=Homo sapiens GN=NKX6-3 PE=2 SV=1

MESNLQGTFLNNTPLAQFPEMKAPVCQYSVQNSFYKLSPPGLGPQLAAGTPHGITDILS  
RPVAAPNNSLLSGYPHVAGFGGLSSQGVYSPQVGNFSKAGNEYPTRTRNCWADTGQDWR  
GGRQCSNTPDPLSDSIHKKKHTRPTFTGHQIFALEKTFEQTKYLAGPERARLAYSLGMTE  
SQVKVWFQNRRTKWRKKSALPSSSTPRAPGGAGAGAGGDRAPSENEDEYNKPLDPDSD  
DEKIRLLLRKHRAAFSVLSLGAHSV

>sp|Q14957|NMDE3\_HUMAN Glutamate receptor ionotropic, NMDA 2C OS=Homo sapiens GN=GRIN2C  
PE=1 SV=3

MGGALGPALLTSLFGAWAGLGPQGEGQMTVAVVFSSSGPPQAQFRARLTPQSFLDLPL  
EIQPLTVGVNTTNPSSLLTQICGLLGAHVHGIVFEDNVDTEAVAQILDFISSQTHVPIL  
SISGGSVVLTTPKEPGSAFLQLGVSLEQQLQVLFKVLEEYDWSAFVITSLHPGHALFLE  
GVRVADASHVSWRLLDVVTLELGPGGPRARTQRLLRQLDAPVFVAYCSREEAEVLFAEA  
AQAGLVGPGHVWLVNLAALGSTDAPPATFPVGLISVVTESWRLSLRQKVRDGVAILALGA  
HSYWRQHGTLPAPAGDCRVHPGPVSPAREAFYRHLNVTWEGRDFSFSPPGGYLVQPTMVV  
IALNRHRLWEMVGRWEHGVLYMKYPVWPRYSASLQPVVDSRHLTVATLEERPFIIVESPD  
PGTGGCVPNTVPCRQSNHTFSSGDVAPYTKLCKGFCIDILKKLARVVKFSYDLYLVTN  
GKHGKRVRGVWNGMIGEVYKRA DMAIGSLTINEERSEIVDFSVPFVETGISVMVARSNG  
TVSPSAFLEPYSPAVWMMFVMCLTVVAITVFMFEYFSPVSYNQLTRGKKS GGP AFTIG  
KSVWLLWALVFNNVPIENPRGTTSKIMVLVWAFFAVIFLASYTANLAAFMIQEYIDTV  
SGLSDKKFQRPQDQYPPFRFGTVPNGSTERNIRSNYRDMHMHVKNQSRVEDALTS LKM  
GKLDAFIYDAAVLNYMAGKDEGCKLVTIGSGKVFATTGYG IAMQKDSHWKRAIDLALLQF  
LGDGETQKLETVWLSGICQNEKNEVMSSKLDIDNMAGVFYMLLVAMGLALLVFAWEHLVY  
WKL RHSVNPSSQLDFLLAFSRGIYSCFSGVQSLASPPRQASPDLTASSAQASVLKMLQAA  
RDMVTTAGVSSSLDRATRTIENWGGRRAPPPSPCPTPRSGPSPCLPTDPPPEPSPTGW  
GPPDGGRAALVRRAPQPPGRPPTPGPPLSDVSRVSRPPAWEARWPVRTGHCGRHLSASER  
PLSPARCHYSSFPADRSGRPFLPLFPELEDLPLLGPQLARREALHAAWARGSRPRHA  
SLPSSVAEAFARPSSLPAGCTGPACARPDGHSACRRLAQASMCPLIYREACQEGEQAGA  
PAWQHRQHVC LHAHAHL PFCWGAVCPHLPPCASHGSWLSGAWGPLGHRGRTLGLGTGYRD  
SGGLDEISRVARGTQGFPGPCTWRRISSELEV

>sp|O15399|NMDE4\_HUMAN Glutamate receptor ionotropic, NMDA 2D OS=Homo sapiens GN=GRIN2D  
PE=1 SV=2

MRGAGGPRGRGPAKMLLLLALACASPFEEAPGPGGAGGPGGLGGARPLNVALVFSGP  
AYAAEAARLGPAAAAVRSPGLDVRPVALVLNGSDPRSLVLQLCDLLSGLRVHGVVFEDD  
SRAPAVAPILDFLSAQTSPLIVAVHGAALVLTPEKEGSTFLQLGSSTEQQLQVIFEVLE  
EYDWTFSFVAVTTTRAPGHRAFLSYIEVLTGSLVGVWEHRGALTLDPGAGEAVLSAQLRSVS  
AQIRLLFCAREEAEPVFRAAEEAGLTGSGYVWFMVGPQLAGGGGSGAPGEPPLPGGAPL

PAGLFAVRSAGWRDDLARRVAAGVAVVARGAQALLRDYGFPELGHDCRAQNRTHRGESL  
HRYFMNITWDNRDYSFNEDGFLVNPSLVVISLTRDRTWEVVGSEQQTLRLKYPLWSRYG  
RFLQPVDQTQHLTVATLEERPFVIVEPADPISGTCIRDSVPCRSQNLNRTHSPPPDAPRPE  
KRCKGFCIDILKRLAHTIGFSYDLYLVLTNGKHGKKIDGVWNGMIGEVFYQRADMAIGSL  
TINEERSEIVDFSVPFVETGISVMVARSNGTVSPSAFLEPYSPAVWMMFVMCLTVVAVT  
VFIFEYLSVPVGYNRSLATGKRPGGSTFTIGKSIWLLWALVFNNVSVVENPRGTTSKIMVL  
VWAFFAVIFLASYTANLAAFMIQEEYVDTVSGLSDRKFQRPQEYYPPLKFGTVPNGSTEK  
NIRSNYPDMHSYMVRYNQPRVEEALTQLKAGKLDAFIYDAAVLNYMARKDEGCKLVTIGS  
GKVFATTGYGIALHKGSRWKRPIDLALLQFLGDDEIEMLERLWLSGICHNDKIEVMSSKL  
DIDNMAGVFYMLLVAMGLSLLVFAWEHLVYWRLRHCLGPTHRMDFLAFSRGMYSCCSAE  
AAPPAPKPPPPQPLSPAYPAPRPAPGPAPFVPRERASVDRWRTKGAGPPGGAGLADG  
FHRYYGPIEPQGLGLGEARAAPRGAAGRPLSPAAQPPQKPPPSYFAIVRDKEPAEPP  
AGAFPGFSPPPAPAAAAATAVGPPLCRLAFEDESPAPARWPRSDPESQPLLPGGAGGAG  
GTGGAGGGAPAAPPCRAAPPPCPYLDLEPSPSDSESESLGGASLGGLEPWWFADFPYP  
YAERLGPYPGRYVSDKLGGWRAGSWDYLPPRSGPAAWHCRHCASLELLPPPRHLSCSHD  
GLDGGWWAPPPPPWAAGPLPRRRARCGCPRSHPHRPRASHRTPAAAAPHHHRHRAAGGW  
DLPPAPTSTRSLEDLSSCPRAAPARRLTGPSRHARRCPHAAHWGPPLPTASHRRHRGGDL  
GTRRGS AHFSSLESEV

>sp|Q9C002|NMES1\_HUMAN Normal mucosa of esophagus-specific gene 1 protein OS=Homo sapiens  
GN=NMES1 PE=2 SV=1

MSFFQLLMKRKELIPLVVFMTVAAGGASSFAVYSLWKTVDILDRKKNPEPWETVDPTVPQ  
KLITINQQWKPIEELQNVQRVTK

>sp|Q96T66|NMNA3\_HUMAN Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 3  
OS=Homo sapiens GN=NMNAT3 PE=1 SV=2

MKSRIIPVLLACGSFNPITNMHLRMFEVARDHLHQTGMYQVIQGIISPVNDTYGKKDLAA  
SHHRVAMARLALQTSDWIRVDPWESEQAQWMETVKVLRHHHKKLLRSPQMEGPDHGKAL  
FSTPAAVPELKLKCGADVLTFTQTPNLWKDAHIQEIVEKFGLVCVGRVGHDPKGYIAESP  
ILRMHQHNIHLAKEPVQNEISATYIRRALGQGQSVKYLIPDAVITYIKDHGLYTKGSTWK  
GKSTQSTEGKTS

>sp|Q5H8A3|NMS\_HUMAN Neuromedin-S OS=Homo sapiens GN=NMS PE=2 SV=1

MKHLRPQFPLILAIYCFCLQIPSSGFPQPLADPSDGLDIVQLEQLAYCLSQWAPLSRQP  
KDNQDIYKRFLFHSYRTQEATHPVKTGFPPVHPLMHLAAKLANRRMKRILQRGSGTAAVD  
FTKKDHTATWGRPFPLFRPRNGRNIEDEAQIQW

>sp|Q8NC60|NOA1\_HUMAN Nitric oxide-associated protein 1 OS=Homo sapiens GN=NOA1 PE=1 SV=2

MLPARLPFRLLSLFLRGSAPTAARHGLREPLLERRCAAASSFQHSSSLGRELPYDPVDTE  
GFGEGGDMQERFLFPEYILDPEPQPTREKQLQELQQQQEEEEERQQRREERRQQNLRAR  
SREHPVVGHPDPALPPSGVNCSCGAELHCQDAGVPGYLPREKFLRTAEADGGLARTVCQ  
RCWLLSHHRRALRLQVSREQYELVSAALRRPGPSLVLYMVDLLDLPDALLPDLPALVGP  
KQLIVLGNKVDLLPQDAPGYRQLRERLWEDCARAGLLLAPGHQGPQRPVKDEPDGENP  
NPPNWSRTVVRDVRILSAKTGYGVEELISALQRSWRYRGDVYLVGATNAGKSTLFNTLLE  
SDYCTAKGSEAIDRATISPWPGTTLNLLKFPICNPTPYRMFKRHQRLKDDSTQAEEDLSE  
QEQNQLNVLKHHGYVVRGVGRFTLYSEEQKDNIPFEFDADSLAFDMENDPVMGTHKSTKQ  
VELTAQDVKDAHWFYDTPGITKENCILNLLTEKEVNIVLPTQSIVPRTFVLKPGMVLFLG  
AIGRIDFLQGNQSAWFTTVASNILPVHITS LDRADALYQKHAGHTLLQIPMGKKERMAGF

PPLVAEDIMLKEGLGASEAVADIKFSSAGWVSVTPNFKDRLHLRGYTPEGTVLTVRPPLL  
PYIVNIKGQRIKKSVA YKTKKPPSLMYNVRKKKGKINV

>sp|Q9BVI4|NOC4L\_HUMAN Nucleolar complex protein 4 homolog OS=Homo sapiens GN=NOC4L PE=1  
SV=1

MEREPGAAGVRRALGRRLEAVLASRSEANAVFDILAVLQSEDQEEIQEAVRTCSRLFGAL  
LERGELFVGQLPSEEMVMTGSQGATRK YKVWMRHYHSCCNRLGELLGHPSFQVKELALS  
ALLKFVQLEGAHPLEKSKWEGNYLFPREL FKL VVGGLSPEEDQSLLLSQFREYLDYDDT  
RYHTMQAAVDAVARVTGQHPEVPPAFWNNAF TLLSAVSLPRREPTVSSFYVKRAELWDTW  
KVAHLKEHRRRVFQAMWLSFLKHKLP LSLYKKVLLIVHDAILPQLAQPTLMIDFLTRACDL  
GGALSLLALNGLFILIHKNLEYPDFYRKLYGLLDPSVFHVKYRARFFHLADFLSSSHL  
PAYLVAFAKRLARLALTAPPEALLMVL PFCNLLRRHPACRVLVHRPHGPELDADPYDP  
GEEDPAQSRALESSLWELQALQRHYHPEVSKAASVINQALSMPEVSIAPLLELTAYEIFE  
RDLKKKGPEPVPLEFIPAQGLLGRPGELCAQHFTLS

>sp|Q9UK39|NOCT\_HUMAN Nocturnin OS=Homo sapiens GN=NOCT PE=2 SV=2

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SRTVCMTGTGTSRLYSALAKTLNSSAASQHPEYLVSPDPEHLEPIDPKELLEECRAVLHT  
RPPRFQQRDFVDLRTDCPSTHPIRVMQWNILAQALGEGKDNFVQCPVEALKWEERKCLIL  
EEILAYQPDILCLQEVDHYFDTFQPLLSRLGYQGTFFPKPWSPCLDVEHNNGPDGCALFF  
LQNRFKLVNSANIRLTAMTLKTNQVAIAQTLECKESGRQFCIAVTHLKARTGWERFRSAQ  
GCDLLQNLQNITQGAKIPLIVCGDFNAEPT EEVYKHFASSSLNLSAYKLLSADGQSEPP  
YTTWKIRTSGECRHTLDYIWYSKHALNVR S ALDLLTEEQIGPNRLPSFNYP SDHLSLVCD  
FSFTEESDGLS

>sp|Q99784|NOE1\_HUMAN Noelin OS=Homo sapiens GN=OLFM1 PE=1 SV=4

MSVPLLKIGVVLSTMAMITNWSQTLPSLVGLNTTKLSAAGGGTLDRSTGVLP TNPEESW  
QVYSSAQDSEGRICITV VAPQQTMC SRDARTKQLRQLLEKVQNMSSQIEVLDRRTQRDLQ  
YVEKMENQMKGLESKFKQVEESHKQHLARQFKA I KAKMDEL RPLIPVLEEYKADAKLV LQ  
FKEEVQNLTSVLNELQEEIGAYDYDELQSRVSNLEERLRACMQKLACGKLTGISDPVTVK  
TSGSRFGSWMTDPLAPEGDNRVWYMDGYHNNRFVREYKSMVDFMNTDNFTSHRLPHPWSG  
TGQVVYNGSIYFNKFQSHIIIRFDLKTET I LKTRSLDYAGYNNMYHYAWGGHSDIDL MVD  
ESGLWAVYATNQAGNIVVSRLDPVSLQTLQTWNTSYPKRSAGEAFIICGTLYVTNGYSG  
GTKVHYAYQTNASTYEYIDIPFQNKYSHISMLDYNPKDRALYAWNNGHQILYNVTLFHV I  
RSDEL

>sp|Q9BZE4|NOG1\_HUMAN Nucleolar GTP-binding protein 1 OS=Homo sapiens GN=GTPBP4 PE=1 SV=3

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RLSQILTD FPKLDDIHPFYADLMN ILYDKDHYKLALGQINIAKNLVDNVA KDYVRLMKYG  
DSL YRCKQLKRAALGRMCTVIKRQKQSLEYLEQVRQHLSRLPTIDPNTRTLLLCGYPNVG  
KSSFINKVTRADVDPYAF TTKSLFVGHMDYKYL RWQVVDTPGILDHPLEDRNTIEMQA  
ITALAHLRAAVLYMDLSEQCGHGLREQLELFQNI RPLFINKPLIVVANKCDVKRIAELS  
EDDQKIFTDLQSEGFPVIETSTL TEEGVIKV KTEACDRLLAHRVETKMGKNKVNEVLNRL  
HLAIPTRRDDKERPPFPIPEGV VARRKRMET EESRKKRERDLELEMGDDYILD LQKYWDL M  
NLSEKHDKIPEIWEGHNIADYIDPAIMKKLEELEKEEELRTAAGEYDSVSESEDEEMLEI  
RQLAKQIREKKKLKILESKEKNTQGPRMPRTAKKVQRTVLEKEMRSLGVDMDKDDAHYA  
VQARRSRSITRKRKREDSAPPSSVARSGSCSRTPRDVSGLRDVKMVKKAKTMMKNAQKKM  
NRLGKKGEADRHV FDMKPKHLLSGKRKAGKKDRR

>sp|Q96MY1|NOL4L\_HUMAN Nucleolar protein 4-like OS=Homo sapiens GN=NOL4L PE=1 SV=2  
MSDSTWMSADPHLASSLSPSQDERMRSPQNLHSQEDDDSSSESGSGNGSSTLNPSTSSST  
QGDPAFPFEMNGNGAVAPMDFTTAAEDQPINLCDKLPPATALGTASYPDGGADGLRSRV  
KYGVKTTPEPPYSSGSYDSIKTEVSGCPEDLTVGRAPTADDDDDHDDHEDNDKMNDSE  
GMDPERLKAFNMVFRLFVDENLDRMVPI SKQPKEKIQAIIESCSRQFPFQERARKRIRT  
YLKSCRRMKKNGMEMTRPTPPHLTSAMAENILAAACESETRKAAKRMRL EIQSSQDEPI  
ALDKQHSRDSAAITHSTYSLPASSYSQDPVYANGGLNYSYRGYGALSSNLQPPASLQTGN  
HSNGPTDLSMKGASTTSTTPTPTPSSTTSRVPVPTAQLSPTEISAVRQLIAGYRESAAF  
LLRSADELENLILQQN

>sp|P69849|NOMO3\_HUMAN Nodal modulator 3 OS=Homo sapiens GN=NOMO3 PE=3 SV=2  
MLVGQGAGPLGPAVVTA AAVVLLLSGVGPAHGSEDI VVGCGGFVKSDVEINYSLIEIKLYT  
KHGTLKYQTD CAPNNGYFMIPLYDKGDFILKIEPPLGWSFEPTTVELHVDGVSDICTKGG  
DINFVFTGFSVNGKVL SKGQPLGPAGVQVSLRNTGTEAKIQSTVTQPGGKFAFFKVLPGD  
YEILATHPTWALKEASTTVRV TNSNANAASPLIVAGYNVSGSVRS DGEPMKGVKFLFSS  
LVTKEDVLGCNVSPVPGFQPQDESLVYLCYTVSREDGSFSFYSLPSGGYTVIPFYRGERI  
TFDVAPSRLDFTVEHDSLKIEPVFHVMGFSVTGRVLNGPEGDGVPEAVVTLNNQIKVKT  
ADGSFRLENITGTGTIHAQKEHLYFETVTIKIAPNTPQLADIVATGFSVCGQISIIIRFP  
DTVKQMNKYKVVLSQDKD KSLVTVETDAHGSFCFKANPGTYKVQVMVPEAETRAGLTK  
PQTFLPTVTD RPVMDVAFVQFLASVSGKVSCLDTCGDL LVTLSLRSRQGEKRSLSGKV  
NAMTFTFDNVLP GKYKISIMHEDWCWKNKSLEVEVLEDDVSAVEFRQTGYMLRCSLSHAI  
TLEFYQDGN GRENVIYNLSKGVNRFCLSKPGVYKVTPRSCHRFEQAFYTYDTSSPSILT  
LTAIRHHVLGTITTDKMDVTVTIKSSIDSEPALVLGPLKSVQELRREQQLAEIEARRQE  
REKNGNEEGEERMTPPVQEMVDELQGPFSYDFS YWARSGEKITVTPSSKELLFYPPSME  
AVVSGESCPGK LIEIHGKAGLFLEGQIHPELEGVEIVISEKGASSPLITVFTDDKGAYSV  
GPLHSDLEYTVTSQKEGYVLTAVEGTIGDFKAYALAGVSFEIKAEDDQPLPGVLLSLSGG  
LFRSNLLTQDNGILTF SNLSPGQYYFKPMMKEFRFEPSSQMIEVQEGQNLKITITGYRTA  
YSCYGTVSSSLNGEPEQGVAMEAVGQNDCSIYGEDTVTDEEGKFRLRGLLPGCVYHVQLKA  
EGNDHIERALPHHRVIEVGNNIDDVNIIVFRQINQFDLSGNVITSSEYLPTLWVKLYKS  
ENLDNPIQTVSLGQSLFFHF PPLLRDGENYVLLDSTLPRSQYDYILPQVSFTAVGYHKK  
ITLIFNPTRKLPEQDIAQGSYIALPLTLLVLLAGYNHDKLIPLLLQLTSRLQGVGALGQA  
ASDNSGPEDAKRQAKKQKTRRT

>sp|Q15233|NONO\_HUMAN Non-POU domain-containing octamer-binding protein OS=Homo sapiens  
GN=NONO PE=1 SV=4

MQSNKTFNLEKQNHTPRKHHQH HHHQQHHQQQQQPPPPPI PANGQQASSQNEGLTIDLK  
NFRKPGEKTFTQRSRLFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRT  
LAEIAKVELDNMPLRGKQLRVRFACHSASLTVRNLPQYVSNELLEEAFSVFGQVERAVVI  
VDDRGRPSGKGIVEFSGKPAARKALDRCEGSFLLTTFPRPVTVPEMDQLDDEEGLPEKL  
VIKNQQFHKEREQPPRFAQPGSF EYAYMRWKAL IEMEKQQDQVDRNIKEAREKLEMEM  
EAARHEHQVMLMRQDLMRQEELRRMEELHNQEVQKRKQLELRQEEERRRREEEMRRQQE  
EMMRQQEGFGKTFPDAREQEIRMGQMAMGGAMGINNRGAMPAPVPAGTPAPPGPATMM  
PDGTLGLTPPTTERFGQAATMEGIGAIGTTPAFNRAAPGAEFAPNKR RRY

>sp|Q9HBY0|NOX3\_HUMAN NADPH oxidase 3 OS=Homo sapiens GN=NOX3 PE=1 SV=1  
MMGCWILNEGLSTILVLSWLGINFYLFIDTFYWYEEESFHYTRVILGSTLAWARASALC  
LNFNCMLILIPVSRNLISFIRGTSICCRGPWRRQLDKNLRFHKL VAYGIAVNATIHIVAH

FFNLERYHWSQSEEAQGLLAALSKLGNTPNESYLNVPVTFPTNTTTTELLRTIAGVTGLVI  
SLALVLIMTSSTEFIRQASYELFWYTHHVFIVFFLSLAIHGTGRIVRGQTQDSLSLHNIT  
FCRDYAEWQTVAQCPVPQFSGKEPSAWKWILGPVVLVACERIIRFWRFQQEVVITKVVS  
HPSGVLELHMKRGRFKMAPGGYILVQCPAISSEWHPFLLTSAPQEDFFSVHIRAAGDWT  
AALLEAFGAEGQALQEPWSLPRLAVDGPFGTALTDFVHYPCVCVAAGIGVTPFAALLKS  
IWYKCSEAQTPLKLSKVYFYWICRDARAFEFADLLLSLETRMSEQGKTHFLSYHIFLTG  
WDENQALHIALHWDENTDVITGLKQKTFYGRPNWNEFKQIAYNHPSSSIGVFFCGPKAL  
SRTLQKMCHLYSSADPRGVHFYFNKESF

>sp|Q9NPH5|NOX4\_HUMAN NADPH oxidase 4 OS=Homo sapiens GN=NOX4 PE=1 SV=2

MAVSWRSWLANEGVKHLCLFIWLSMNVLFWKTFLLYNQGPEYHYLHQLGLGLCLSRAS  
ASVLNLCNLILLPMCRLLAYLRGSQKVPSRRTRRLDKSRTFHITCGVTICIFSGVHV  
AAHLVNALNFSVNYSEDFVELNAARYRDEDPRKLLFTTVPLTGVCMVVVLFLMITASTY  
AIRVSNYDIFWYTHNLFFVFYMLLTLHVSGGLLKYQTNLDTHPPGCISLNRSSQNISLP  
EYFSEHFHEPFPEGFSKPAEFTQHKFVKICMEEPFQANFPQTWLWISGPLCLYCAERLY  
RYIRSNKPVTTISVMSHPSDVMEIRMVKNFKARPGQYITLHCPSSVALENHPFTLTMCPL  
TETKATFGVHLKIVGDWTERFRDLLLPSSQDSEILPFIQSRNYPKLYIDGPFGPSFEES  
LNYEVSCLVAGGIGVTPFASILNTLLDDWKPYKLRLRYFIWVCRDIQSFRWFADLLCMLH  
NKFQWENRPDYVNIQLYLSQTDGIQKIIGEKYHALNSRLFIGRPRWKLLFDEIAKYNRGK  
TVGVFCCGPNLSKTLHLKLSNQNNSYGTRFEYNKESFS

>sp|Q86UR1|NOXA1\_HUMAN NADPH oxidase activator 1 OS=Homo sapiens GN=NOXA1 PE=1 SV=1

MASLGDLVRAWHLGAQAVDRGDWARALHLFSGVPAPPARLCFNAGCVHLLAGDPEAALRA  
FDQAVTKDTCMAVGFFQRGVANFQLARFQEALSDFWLALQLRGHAAIDYTLGLRFLKLQ  
AWEVLHNVASAQCLGLWTEAASSLREAMSKWPEGSLNGLDSALDQVQRRGSLPPRQVPR  
GEVFRPHRWHLKHLEPVDLFGKAKVVASAIPDDQGWGVRPQQPGGANHDARSLIMDSP  
RAGTHQGPLDAETEVGADRCTSTAYQEQRPPQVEQVGKQAPLSPGLPAMGGPGGPCEDPA  
GAGGAGAGGSEPLVTVTQCAFTVALRARRGADLSSLRALLGQALPHQAQLGQLSYLAPG  
EDGHWVPIPEEESLQRAWQDAAACPRGLQLQCRGAGGRPVLVYQVVAQHSYSAQGPEDLGF  
RQGDITVDVLCVDAQWLEGHCDGRIGIFPKCFVVPAGPRMSGAPGRLPRSQQGDQP

>sp|E5RHQ5|NPB11\_HUMAN Nuclear pore complex-interacting protein family member B11 OS=Homo sapiens GN=NPB11 PE=3 SV=1

MVKLSIVLTPQFLSHDQGLTKELQQHVKSVTCPCEYLKRVINTLADHHHRGTDGFGSPW  
LHIIIAFPTSYSKVVITLWIVYLWVSLKTIIFWSRNGHDGSTDVQQRARWSNRRRQEGLRS  
ICMHTKKRVSSFRGNKIGLDVITLRRHVETKVRKIRKRKVTTKINRHDKINGKRKTAR  
KQKMFQRAQELRRRAEDYHKCKIPPSARKALCNWVRMAAAEHRHSSGLPYWPYLTAECLK  
NRMGHQPPPPTQQHCITDNSLSLKTPLECLLTPLPPSADDNLKTPPECLLTPLPPSADDN  
LKTPECLLTPLPPSAPPSAPPSADDNLKTRAECCLHPLPPSADDNLKTPSERQLTPLPP  
SAPPSADDNIKTAEHLRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTAEHLR  
GPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTAEHLRGPLPPSADDNLKTPSERQ  
LTPLPPSAPPSADDNIKTAEHLRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKT  
TAEHLRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTAEHLQFRFHPQRMISR  
DLPSVSSLPFHPQLHPQQMIISRYLLSICGFRFHRQRMISRHLPSVSSLPFHPQLHPQQ  
MIISRHLPSVCGGRFHPQPMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGGRFHPQ  
PMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGGRFHPQPMIISRHLPSVSSLPFHP  
QLHPQQMIISRHLPSVCGGRFHPQPMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCG



GRFHPQPMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGERLWVPLPPSADDNLKTP  
SKRQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPSKRQLTPLPPSAPPSADD  
NIKTPAERLRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSAD  
DNLKTPSERQLTPLPPSAPTSADDNIKTPAERLRGPLPPSADDNLKTPPLATQEAEEAKP  
RKPKRQRAAEMEPPPEPKRRRVGDVEPSRKPKRRRAADVEPSSPEPKRRRVGDVEPSRKP  
KRRRAADVEPSSPEPKRRRLS

>sp|P48146|NPBW2\_HUMAN Neuropeptides B/W receptor type 2 OS=Homo sapiens GN=NPBWR2 PE=1  
SV=2

MQAAGHPEPLDSRGSFSLPTMGANVSQDNGTGHNATFSEPLPFLYVLLPAVYSGICAVGL  
TGNTAVILVILRAPKMKTVTNVFILNLAVADGLFTLVLPVNIAEHLQYWPFGELLCKLV  
LAVDHYNIFSSIIYFLAVMSVDRLVVLATVRSRHMPWRTYRGAKVASLCVWLGVTVLVLP  
FFSFAGVYSNELQVPSCGLSFPWPEQVWFKASRVYTLVLGVLPVCTICVLYTDLLRRLR  
AVLRSGAKALGKARRKVTVLVLVVLAVCLLCWTFPHLASVVALTTDLPQTPLVISMSYV  
ITSLSYANSCLNPFLYAFLDDNFRKNFRSILRC

>sp|POCOP6|NPS\_HUMAN Neuropeptide S OS=Homo sapiens GN=NPS PE=3 SV=1

MISSVKLNLILVLSLSTMHVFWCYPVPSSKVSQKSDYFLILLNSCPTRLDRSKELAFKLP  
ILEKMFVKRSFRNGVGTGMKTSFQRAKS

>sp|095502|NPTXR\_HUMAN Neuronal pentraxin receptor OS=Homo sapiens GN=NPTXR PE=3 SV=2

MKFLAVLLAAGMLAFLGAVICIIASVPLAASPARALPGGADNASVASGAAASPGPQRSLS  
ALHGAGGSAGPPALPGAPAASAHPLPPGPLFSRFLCTPLAAACPSGAQQGDAAGAAPGER  
EELLLLQSTAEQLRQTALQQEARIRADQDTIRELTGKLGRCESGLPRGLQGAGPRRDMA  
DGPWDSPALILEDAVRALRDRIDRLEQELPARVNLSAAPAPVSAVPTGLHSKMDQLEG  
QLLAQVLAEKERVASHSSRRQRQEVEKELDVLQGRVAELEHGSSAYSPPDAFKISIP  
RNNMYARVRKALPELYAFTACMWLRSRSSGTGQGPFSYSVPGQANEIVLLEAGHEPME  
LLINDKVAQLPLSLKDNGWHHICIAWTTTRDGLWSAYQDGELQGS GENLAAWHPKPHGIL  
ILGQEQDTLGGRFDATQAFVGDIAQFNLWDHALTPAQVLGIANCTAPLLGNVLPWEDKLV  
EAFGGATKAADFVCKGRAKA

>sp|Q02297|NRG1\_HUMAN Pro-neuregulin-1, membrane-bound isoform OS=Homo sapiens GN=NRG1  
PE=1 SV=3

MSERKEGRGKGKGGKKKERGSGKKPESAAGSQSPALPPRLKEMKSQESAAGSKLVLCETS  
SEYSSLRFKWFKNGNELNRKNKPNIKIQQKPGKSELRINKASLADSGEYMCKVISKLGN  
DSASANITIVESNEIITGMPASTEGAYVSSSPIRISVSTEGANTSSSTSTSTGTSHLV  
KCAEKEKTFCVNGGECFMVKDLNPSRYLCKCQPGFTGARCTENVPMKVQNQEKAEEELYQ  
KRVLTITIGICIALLVVGIMCVVAYCKTKKQRKKLHDRLRQSLRSENNMMNIANGPHHPN  
PPPENVLVNQYVSKNVISSEHIVEREAETSFSTSHYTSTAHHSTTVTQTPSHWSNGHT  
ESILSESHSVIVMSSVENSRHSSPTGGPRGLNGTGGPRECNSFLRHARETPDSYRDSPH  
SERYVSAMTTPARMSPVDFHTPSSPKSPSEMSPPVSSMTVSMPSMAVSPFMEEERPLLL  
VTPPRLREKKFDHHPQQFSSFHHPAHDSNSLPASPLRIVEDEEYETTQEYEPAQEPVKK  
LANSRRAKRTKPNGHIANRLEVDSNTSSQSSNSESETERVGEDTPFLGIQNPLAASLE  
ATPAFRLADSRTPNAGRFSSTQEEIQARLSSVIANQDPIAV

>sp|Q86YC3|NRROS\_HUMAN Negative regulator of reactive oxygen species OS=Homo sapiens  
GN=NRROS PE=1 SV=1

MELLPLWLCLGFHFLTVGWRNRSGTATAASQGVCKLVGGAADCRGQSLASVPSSLP  
MLTLNANPLKTLWNHSLQPYPLLESLSLHSCHLERISRGAFQEQQHLRSLVLGDNCLSEN

YEETAAALHALPGLRRDL SGNALTEDMAALMLQNLSSLRSVSLAGNTIMRLDDSVFEGLE  
ERLRELDLQRNYIFEIEGGAFDGLAELRHLNLA FNNLPCIVDFGLTRLRVLNVSYNVLEW  
FLATGGEEAAFELETDL SHNQLLFFPLLPQYSKLR TLLLRDNMGFYRDLYNTSSPREMV  
AQFLLVDGNVTNITTVSLWEEFSSSDLADLRFLDMSQNFQYLPDGFLRKMPSLSHLNLH  
QNCLMTLHIREHEPPGALTELDLSHNQLSELHLAPGLASCLGSLRFLNLSNQLLGVPPG  
LFANARNITTLDMSHNQISLCPLPAASDRVGPPSCVDFRNMASLRSLSEGCGLGALPDC  
PFQGTSLTYLDLSSNWGVLNGSLAPLQDVAPMLQVLSLRNMGLHSSFMALDFSGFGNLRD  
LDLSGNCLTTFFRFGGSLALETDLRRNSLTALPQKAVSEQLSRGLRTIYLSQNPYDCCG  
VDGWGALQHGQTVADWAMVTCNLSSKII RVTELPGGVPRDCKWERLDGLLYLVLI LPSC  
LTLVACTVIVLTFKKPLLQVIKSRCHWSSVY

>sp|Q9HDB5|NRX3B\_HUMAN Neurexin-3-beta OS=Homo sapiens GN=NRXN3 PE=1 SV=4

MHLRIHARRSPRRPAWTLGIWFLFWGCIVSSVWSSSNVASSSTSSSPGSHSQHEHHFH  
GSKHHSVPISIIYRSPVSLRGGHAGATYIFGKSGGLILYTPANDRPSTRSDRLAVGFSTT  
VKDGI LVRIDSAPGLGDFLQLHIEQGKIGVVFNIGTVDISIKEERTPVNDGKYHVVRFR  
NGGNATLQVDNWPVNEHYPTGRQLTIFNTQAQIAIGGKDKGRLFQGGLSGLYYDGLKVLN  
MAAENNPNIKINGSVRLVGEVPSILGTTQTTSMPPEMSTTMETTTTMTTTRKNRSTA  
SIQPTSDDLVSSAECSDDDEDVECEPSTGGELVIPLLEDPLATPPIATRAPSITLPPT  
FRPLLTIIETTKDLSMTSEAGLPCLSDQSGDGCDDGLVISGYGSETFDSNLPPTDDE  
DFYTTFSLVTDKSLSTSIFEGGYKAHAPKWESKDFRPNKVSETSRTTTTSLSPELIRFTA  
SSSSGMVPKLPAGKMNRDLKPQPDIVLLPLPTAYELDSTKLKSPLITSPMFRNVPTANP  
TEPGIRRVPGASEVIRESSSTGMVVGIVAAAALCILILLYAMYKYRNRDEGSYQVDETR  
NYISNSAQSNGLTMKEKQQSSKSGHKKQKNKDREYYV

>sp|Q99435|NELL2\_HUMAN Protein kinase C-binding protein NELL2 OS=Homo sapiens GN=NELL2  
PE=1 SV=1

MESRVLLRTFCLIFGLGAVWGLGVDPSLQIDVLTELELGESTTGVRQVPGLHNGTKAFLF  
QDTPRSIKASTATAEQFFQKL RNKHEFTILVTLKQTHLNSGVILSIHHLDHRYLELESSG  
HRNEVRLHYRSGSHRPHTEVFPYILADDKWHKLSLAISASHLILHIDCNKIYERVVEKPS  
TDLPLGTTFWLGRNNAHG YFKGIMQDVQLLVMPQGFIAQCPDLNRTCPTCND FHLVQK  
IMELQDILAKTSAKLSRAEQRMNRDLQCYCERTCTMKGTTYREFESWIDGCKNCTCLNGT  
IQCETLICPNPDCPLKSALAYVDGKCKECKSICQFQGRTYFEGERN TVYSSSGVCVLYE  
CKDQTMKLVESSGCPALDCPESHQITLSHSCCKVCKGYDFCSE RHNCMENSICRNLDRA  
VCSCRDGFRALREDNAYCEDIDECAEGRHYCRENTMCVNTPGSFMCICKTG YIRIDDYSC  
TEHDECITNQHNCDENALCFNTVGGHNCVCKPGYTGN GTTCKAFCKDGC RGGACIAANV  
CACPQGFTGPSCETDIDECS DGFVQCDSRANCINLPGWYHCECRDGYHDNGMFSPSGESC  
EDIDECGTGRHSCANDTICFNLDGGYDCRCPHGKNCTGDCIHDGKVKHNGQI WVLENDRC  
SVCSCQNGFVMCRRMVCDCENPTVDLFCCECDPRLSSQCLHQNGETLYNSGDTWVQNCQ  
QCRCLQGEVDCWPLPCPDVECEFSILPENECPCRCVTDPCQADTIRNDITKTCLDEMNVV  
RFTGSSWIKHGTECTLCQCKNGHICCSVDPQCLQEL

>sp|Q9Y6K9|NEMO\_HUMAN NF-kappa-B essential modulator OS=Homo sapiens GN=IKBKG PE=1 SV=2

MNRHLWKSQ LCEMVQPSGGPAADQDVLGEESPLGKPAMLHLPSEQGAPETLQRCLEENQE  
LRDAIRQSNQILRERCEELLHFQASQREEKEFLMCKFQEAR KLVRLGLEKLDLKRQKEQ  
ALREVEHLKRCQQMAEDKASVKAQVTSLLGELQESQSRLEAATKECQALEGRARAASEQ  
ARQLESEREALQQH SVQVDQLRMQGSVEAALRMERQAASEEKRKLAQLQVAYHQLFQE  
YDNHIKSSVVGSEKRGMQLEDLKQQLQQAEEALVAKQEVIDKLKEEAEQHKIVMETVPV

LKAQADIYKADFQAERQAREKLAIEKKELLQEQLQREYSKLKASCQESARIEDMRKRH  
VEVSQAPLPPAPAYLSSPLALPSQRRSPPEEPPDFCCPKCQYQAPDMDTLQIHVMECIE  
>sp|P48681|NEST\_HUMAN Nestin OS=Homo sapiens GN=NES PE=1 SV=2  
MEGCMGEESFQMWELNRRLEAYLARVKALEEQNELLSAELGGLRAQSADTSWRAHADDEL  
AALRALVDQRWREKHAAEVARDNLAEELEGVAGRCQQLRLARERTTEEVARNRRRAVEAEK  
CARAWLSSQVAELERELEALRVAHEEERVGLNAQAACAPRCPPAPRGPPAPAPEVEELAR  
RLGEAWRGAVRGYQERVAHMETSLGQARERLGRAVQGAREGRLELQQLQAERGGLLERRA  
ALEQRLEGRWQERLRATEKFQLAVEALEQEKQGLSQIAQVLEGRQQLAHLKMSLSLEVA  
TYRTLLEAENSRLQTPGGGSKTSLSFQDPKLELQFPRTPEGRRLGSLLPVLSPSPLPSPL  
PATLETPVPAFLKNQEFLQARTPTLASTPIPPTPQAPSPAVDAEIRAQDAPLSLLQTQGG  
RKQAPEPLRAEARVAIPASVLPGPEEPGGQRQEASTGQSPEDHASLAPPLSPDHSSLEAK  
DGESGGSRVFSICRGEQEGQIWLVEKETAIEGKVSSSLQEIWEEDLNKKEIQDSQVP  
LEKETLKS LGEEIQESLKTLENQSHETLERENQECPRSLEEDLETLSLEKENKELLKDV  
EVVRPLEKEAVGQLKPTGKEDTQTLQSLQKENQELMKSLEGNLETFLFPGTENQELVSSL  
QENLESLTALEKENQEPLRSPEVGDEEALRPLTKENQEPLRSLEDENKEAFRSLEKENQE  
PLKTL EEEDQSIVRPLETENHKSLRSLEEQDQETLRTLEKETQQRRLSLGEQDQMTLRPP  
EKVDLEPLKSLDQEIARPLENENQEFLKSLKEESVEAVKSLETEILESLSKAGQENLETL  
KSPETQAPLWTPPEINQGAMNPLEKEIQEPLSVEVNQETFRLL EENQESLRS LGAWN  
ENLRSP EVDKESQRNLEEEENLGKGEYQESLRSLEE QGELPQSADVQRWEDTVEKDQE  
LAQESPPGMAGVENEDEAELNLREQDGTGKEEVVEQGELNATEEVWIPGEGHPESPEPK  
EQRGLVEGASVKGGAELQDPEGQSQQVGAPGLQAPQGLPEAIEPLVEDDVAPGGDQASP  
EVM LGSEPAMGESAAAGAEPPGGQGVGGLGDPGHLTREEVMEPPLEESLEAKRVQGLEGP  
RKDLEEAGGLGTEFSELPGKSRDPWEPPREGREESEAEAPRGAEAFPAETLGHTGSDAP  
SPWPLGSEAEEDVPPVLVSPSPTYTPILEDAPGPQPQAEGSQEASWGVQGRAEALGKVE  
SEQEELGSGEIQEPGQEEGEESSREESEDELGETLPDSTPLGFYLSPTS PRWDPTGEQR  
PPPQGETGKEGWDPAVLASEGLEAPPSEKEEGEEGEEECGRSDSLEEFEDLGTEAPFLP  
GVPGEVAEPLGQVPQLLLDPAAWDRDGEDSGFADEEESGEEGEEDQEEGREPGAGRWGPG  
SSVGS LQALSSSRGEFLES DSVSVSPWDDSLRGAVAGAPKTALETESQDSAEP SGSEE  
ESDPVSLEREDKVPGLPIPSGMEDAGPGADIIGVNGQGPNEGKSQHVNGGVMNGLEQS  
EEVGQGMPLVSEGRGSPFQEEEGSALKTSWAGAPVHLGQGQFLKFTQREGDRESWSSGE  
D

>sp|076050|NEUL1\_HUMAN E3 ubiquitin-protein ligase NEURL1 OS=Homo sapiens GN=NEURL1 PE=2  
SV=1

MGNFSSIPSLPRGNPSRAPRGHPQNLKDSIGGPFVPTSHRCHHKQKHCPAVLPSSGGLPA  
TPLL FHPHTKGSQILMDLSHKAVKRQASFCNAITFSNRPVLIYEQVRLKITKKQCCWSGA  
LRLGFTSKDPSRIHPDSLPHYACPDLSVQSGFWAKALPEEFANEGNIIAFWVDKKGRVFH  
RINDSAVMLFFSGVRTADPLWALVDVYGLTRGVQLLDSELVLPDCLRPRSFTALRRPSLR  
READDARLSVSLCDLNVPGADGDEAAPAAGCPIPQNSLNSQHSRALPAQLDGD LRFHALR  
AGAHVRILDEQTVARVEHGRDERALVFTSRPVVAETIFVKVTRSGGARPGALSFGVTTC  
DPGTLRPADLPFSPEALVDRKEFWAVCRVPGPLHSGDILGLVVNADGELHLSHNGAAAGM  
QLCVDASQPLWMLFGLHGTITQIRILGSTILAERGIPSLPCSPASTPTSPSALGSRLSDP  
LLSTCSSGPLGSSAGGTAPNSPVS LPESPVTPGLGQWSDECTICYEHAVDTVIYTCGHMC  
LCYACGLRLKKALHACCPICRRPIKDI IKTYRSS

>sp|Q9BYT8|NEUL\_HUMAN Neurolysin, mitochondrial OS=Homo sapiens GN=NLN PE=1 SV=1

MIARCLLAVRSLRRVGGSRILLRMTLGREVMSPQLAMSSYTVAGRNVLRWDLSEPIKTR  
TEELIVQTKQVYDAVGMLGIEEVTYENCLQALADVEVKYIVERTMLDFPQHVSSEKEVRA  
ASTEADKRLSRFDIEMSMRGDIFERIVHLQETCDLGKIKPEARLYLEKSIKMGKRNLHL  
PEQVQNEIKSMKKRSELCDIFNKNLNEDDTFLVFSKAELGALPDDFIDSLEKTDDDKYK  
ITLKYPHYFPVMKKCCIPETRRRMEMAFNTRCKEENTIILQQLPLRTKVAKLLGYSTHA  
DFVLEMNTAKSTSRVTAFLDDLQKLEKPLGEAEREFILNLKKKECKDRGFEDGKINAWD  
LYYYMTQTEELKYSIDQEFLEKEYFPIEVVTEGLLNTYQELLGLSFEQMTDAHVNKSVTL  
YTVKDKATGEVLGGFYLDLYPREGKYNHAACFGLQPGCLLPDGSRRMVAALVNFSSQPV  
AGRPSSLRHDEVRTYFHEFGHVMHQICAQTDFAFSGTNVETDFVEVPSQMLENWWVDVD  
SLRRLSKHYKDGSPADDDLEKLVASRLVNTGLLTLRQIVLSKVDQSLHTNTSLDAASEY  
AKYCEILGVAATPGTNMPATFGHLAGGYDGGYYGYLWSEVFSMDMFYSCFKKEGIMNPE  
VGMKYRNLILKPGGSLDGMMLHNFLKREPQKAFLMSRGLHAP

>sp|Q9UQ49|NEUR3\_HUMAN Sialidase-3 OS=Homo sapiens GN=NEU3 PE=1 SV=1

MEEVTTCSFNSPLFRQEDDRGITYRIPALLYIPPTHTFLAFAEKSTRRDEDALHLVLR  
GLRIGQLVQWGPKPLMEATLPGHRTMNPCPVWEQKSGCVLFFICVRGHVTERQQIVSG  
RNAARLCFIYSQDAGCSWSEVRDLTEEVIGSELKHWATFAVGPGHGIQLQSGRLVIPAYT  
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>sp|Q8WWR8|NEUR4\_HUMAN Sialidase-4 OS=Homo sapiens GN=NEU4 PE=1 SV=3

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CWPS

>sp|P30990|NEUT\_HUMAN Neurotensin/neuromedin N OS=Homo sapiens GN=NTS PE=1 SV=2

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>sp|P21359|NF1\_HUMAN Neurofibromin OS=Homo sapiens GN=NF1 PE=1 SV=2

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EYLAEASVVPKVPV VHNLLDSKINTLLSLCQDPNLLNPIHGIVQSVVYHEESPPQYQT  
SYLQSF GFNGLWRFAGPFSKQTQIPDYAELIVKFLDALIDTYLPGIDEETSEESLLTPTS  
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>sp|Q14934|NFAC4\_HUMAN Nuclear factor of activated T-cells, cytoplasmic 4 OS=Homo sapiens  
GN=NFATC4 PE=1 SV=2

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GEELVLTGNSFLPDSKVVFIERGPDGKLQWEEETVNRLQSNEVTTLTLVPEYSNKRVS  
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SFLPRFPSPDPYGGRGSSFSGLGLFSPAPFRPPPLPASPPLEGPFPSQSDVHPLPAEGY  
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>sp|Q9NV92|NFIP2\_HUMAN NEDD4 family-interacting protein 2 OS=Homo sapiens GN=NFIP2 PE=1 SV=2

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>sp|P07197|NFM\_HUMAN Neurofilament medium polypeptide OS=Homo sapiens GN=NEFM PE=1 SV=3

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EVADLLAQIQASHITVERKDYLKTDISTALKEIRSQLESHSDQNMHQAEWFKCRYAKLT  
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>sp|Q9H2A3|NGN2\_HUMAN Neurogenin-2 OS=Homo sapiens GN=NEUROG2 PE=2 SV=2

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NRERNRMHNLNAALDALREVLPTFPEDAKLTKIETLRFHNYI WALTETLRLADHCGGGGG  
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ASPAGSDMDYWQPPPPDKHRYAPHLPIARDCI

>sp|Q9NPE2|NGRN\_HUMAN Neugrin OS=Homo sapiens GN=NGRN PE=1 SV=2

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>sp|Q14112|NID2\_HUMAN Nidogen-2 OS=Homo sapiens GN=NID2 PE=1 SV=3

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SENGFSLAGAAFTHDMEVTFYPGEETVRITQTAEGLDPENYLSIKTNIQGQVPYVSANFT  
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CHPAATCYNTPGSFSRCRCQPGYYGDGFQCIIPDSTSSLTPCEQQRHAQAQYAYPGARFHI  
PQCDEQGNFLPLQCHGSTGFCWCVDPDGHEVPGTQTPPGSTPPHCGPSPEPTQRPTICE  
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TPACIPTVAPPMVRPTPRPDVTPPSVGTFLLYTQGGQIGYLPNGTRLQKDAKTLLSLH  
GSIIVGIDYDCRERMVYWTDVAGRTISRAGLELGAEPETIVNSGLISPEGLAIDHIRRTM  
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DGENRRILINTDIGLPNGLTFDPFSKLLCWADAGTKKLECTLPDGTGRRVIQNNLKYPFS  
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>sp|Q9BPW8|NIPS1\_HUMAN Protein NipSnap homolog 1 OS=Homo sapiens GN=NIPSNAP1 PE=1 SV=1

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QAVHLWRFSGGYPALMDCMNKLKNNKEYLEFRRERSQMLLSRRNQLLEFSFWNEPQPRM  
GPNIYELRTYKLPKPGTMIEWGNWARAIKYRQENQEAVGGFFSQIGELYVVHHLWAYKDL  
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>sp|O15522|NKX28\_HUMAN Homeobox protein Nkx-2.8 OS=Homo sapiens GN=NKX2-8 PE=2 SV=2

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LRLTPTQVKIWFQNHRYKLKRARAPGAAESPDLAASAELHAAPGLLRVVVPVLVRDGGP  
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>sp|O60391|NMD3B\_HUMAN Glutamate receptor ionotropic, NMDA 3B OS=Homo sapiens GN=GRIN3B  
PE=2 SV=2

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ARALGSAAQVQPKRALLPAPVNCGLQAPAGPESGRFLARFLANTSFQGRTPVWVTGSS  
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GLGSALLSSLGEHAFFRLALPRIRKGSRLQYWLHTSQIKHRALNTEPPEGSKEETAEAEP  
SGPEVEQQQQQQDQPTAPEGWKARRAVDKERRVRFLLEPAVVVAPEADAEAEAAPREGP  
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>sp|Q9BZQ4|NMNA2\_HUMAN Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 2  
OS=Homo sapiens GN=NMNAT2 PE=1 SV=1

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>sp|Q8NCW5|NNRE\_HUMAN NAD(P)H-hydrate epimerase OS=Homo sapiens GN=NAXE PE=1 SV=2

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ELVDAIFGFSFKGDVREP FHSILSVLKGLTVPIASIDIPSGWDVEKGNAGGIQPDLLIS  
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>sp|O60393|NOBOX\_HUMAN Homeobox protein NOBOX OS=Homo sapiens GN=NOBOX PE=1 SV=4

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KMEKLNKESKDNPAA GPASSQCSSAAEILPAVPMEPKDPFPQESPLDTFPEPPMLLT  
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FPFSMPSSLTLPPPEDSLFMFPCGPGSGTSQGYCPGASSGQILMQPPAGNIGTASWSDPC  
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>sp|Q13823|NOG2\_HUMAN Nucleolar GTP-binding protein 2 OS=Homo sapiens GN=GNL2 PE=1 SV=1

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FGKLHTDKKQISVGFIGYPNVGKSSVINTLRSKKVCNVAPIAGETKVWQYITLMRRIFLI  
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QFSGDDLVPVEVSDLEEELESFDEEEEEEQEQRDDAEESSEPEEENVGNDTKAVIKAL  
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>sp|Q13253|NOG2\_HUMAN Noggin OS=Homo sapiens GN=NOG PE=1 SV=1

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>sp|Q9H8H0|NOL11\_HUMAN Nucleolar protein 11 OS=Homo sapiens GN=NOL11 PE=1 SV=1

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KNQSLVKSLLLKAVVSGNARNGVALTALDQDHVAVLGSPLAASKECLSVWN IKFQTLQTS  
KELPQGTSGQLWYYGEHLFMLHGKSLTVIPYKEVSSLAGALGKLKHSQDPGTHVVS HFV  
NWETPQGCGLGFQNSEQSRRILRRRKIEVSLQPEVPPSKQLLSTIMKDSEKHIEVEVRKF  
LALKQTPDFHTVIGDVTVTGLLERCKAEP SFYPRNCLMQLIQTHVLSYSLCPDLMEIALKK  
KDVQLQLCLQFPDIPESVTCACLKIFLSIGDDSLQETDVNMESVFDYSINSVHDEKME  
EQTEILQNGFNPEEDKCNCDQELNKKPQDETKESTSCPVVQKRAALLNAILHSAYSETF  
LLPHLKDIPAQHITFLKYLYFLYKCSENATMTLPGIHPPTLNQIMDWICLLLDANFTV  
VVMPEAKRLLINLYKLVKSQISVYSELNKIEVSFRELQKLNQEKNRGLYSIEVLELF

>sp|Q9UMY1|NOL7\_HUMAN Nucleolar protein 7 OS=Homo sapiens GN=NOL7 PE=1 SV=2

MVQLRPRASRAPASAEAMVDEGQLASEEEEEAEHGLLLGQPSSGAAAEPL EDEEGDDEFD  
DEAPEELTFASAQAEAREEEERRVRET VRRDKTLLKEKRKRREELFIEQKKRKL LPDTILE  
KLTTASQTNIKKSPGKVKEVNLQKKNEDCEKGND SKKVQKQVSVSQNKSYLAVRLKDQ  
DLRDSRQQAQAFIHNSLYGPGTNRRTTVNKFLSLANKRLPVKRAAVQFLNNAWGIQKKQN  
AKRFKRRWMVRKMKT KK

>sp|P35228|NOS2\_HUMAN Nitric oxide synthase, inducible OS=Homo sapiens GN=NOS2 PE=1 SV=2

MACPWKFLFKTKFHQYAMNGEKDINN NVEKAPCATSSPVTQDDLQYHNLSKQQNES PQPL  
VETGKKSPESLVKLDATPLSSPRHVRIKNWGS GMTFQDTLHHKAGILTCRSK SCLGSIM  
TPKSLTRGPRDKPTPDELLPQAIEFVNQYYGSFKEAKIEEHLARVEAVTKEIETTGT YQ  
LTGDELIFATKQAWRNAPRCIGRIQWSNLQVFDARSCSTAREMF EHC RHYRYSTNNGNI

RSAITVFPQRSDGKHDFRVWNAQLIRYAGYQMPDGSIRGDPANVEFTQLCIDLGWKPKYG  
RFDVVPVLVLQANGRPPELFEIPPDVLLEVAMEHPKYEFRELELKWYALPAVANMLLEV  
GLEFPGCPFNGWYMGTEIGVRDFCDVQRYNILEEVGRRMGLETHKLASLWKDQAVVEINI  
AVLHSFQKQNVTIMDHHSAAESFMKYMONEYRSRGCPADWIWLVPMSG SITPVFHQEM  
LNYVLSPFYYYQVEAWKTHVWQDEKRRPKRREIPLKVLVKAVLFACMLMRKTMA SRVRT  
ILFATETGKSEALAWDLGALFSCAFNPKVVCMDKYRLSCLEERLLLVTSTFGNGDCPG  
NGEKLKSLFMLKELNNKFRYAVFGLGSSMYPRFCFAHDIDQKLSHLGASQLTPMGE  
ELSGQEDAFRSWAVQTFKAACETFDVRGKQHIQIPKLYTSNVTWDPHHYRLVQDSQPLDL  
SKALSSMHAKNVFTMR LKSRQNLQSPTSSRATILVELSCEDGQGLNYLPGEHLGVC  
PGNQ PALVQGILERVVDGPTPHQTVRLEALDESGSYWVSDKRLPPCSLSQALTYFLDIT  
PTPTQLLLQKLAQVATEEPERQRL EALCQPSSEYKWKFTNSPTFLEVLEEFSLRV  
SAGFLLSQLPILKPRFYSISSRDHTPTIEH LTVAVVTYHTRDGQGPLHHGVCSTW  
LNSLKPQDPVPCFVRNASGFHLPEDPSHPCILIGPGTG IAPFRSFWQQLHDSQHK  
GVRGGRMTLVFGCRRPEDHIYQEEMLEMAQKGV LHAVHTAYSRLPGKPKVYVQDIL  
RQQLASEVLRVLHKEPGHLYVCGDVRMARDVAHTLKLQVAAKLKLN  
EEQVEDYFFQLKSQKRYHEDIFGAVFPYEAKKDRVAVQPSSLEMSAL

>sp|P29474|NOS3\_HUMAN Nitric oxide synthase, endothelial OS=Homo sapiens GN=NOS3 PE=1 SV=3

MGNLKSVAQEPGPCGLGLGLGLGCGKQGPATPAPEPSRAPASLLPPAPEHSPPSSPLT  
QPPEGPKFPRVKNWEVGSITYDTLSAQAAQDGPCTPRRCLGSLVFPRKLQGRPSGPPAP  
EQLLSQARDFINQYSSIKRSGSQAHEQRLQEVEAEVAATGT YQLRESELVFGAKQAWRN  
APRCVGRIQWGLQVFDARDCRSAQEMFTYICNHIKYATNRGNLRSAITVFPQRCPGRGD  
FRIWNSQLVRYAGYRQQDGSVRGDPANVEITELCIQHGWTPGNGRFDVLP LLLQAPDEPP  
ELFLLPPELVLEVPLEHPTLEWFAALGLRWYALPAVSNM LLEIGGLEFPAAPFSGWYMST  
EIGTRNLCDPHRYNILEDAVCM DLDTRTTSSLWKDKAAVEINAVLHSYQLAKVTIVDH  
HAATASFMKHLNEQKARGGCPADWAWIVPPISGSLTPV FHQEMVNYFLSPA FRYQPD  
PW KGSAAKGTGITRKKTFKEVANAVKISASLMGTVM AKRVKATILYGETGRAQSYA  
QQLGR LFRKAFDPRVLCMEYDVVSLEHETLVLVVTSTFGNDPPENGESFAAAL  
MEMSGPYNSSPRPEQHKS YKIRFNSISCS DPLVSSWRRKRKESNTDSAGALGTL  
RFCVFGLSRAYPHFCAFARAVDTRLEELGGERLLQLGQDEL CGQEEAFRGWAQAA  
FQAACETFCVGEDAKAAA RDIFSPKR SWKRQRYLSAQAEGLQLLPGLIHVHRR  
KMFQATIRSVENLQSSKSTRATILVRLDTGGQEGLQYQPGDHIGVCPNRPGL  
VEALLSRVEDPPAPTEPVAVEQLEKGSPPGPPPGWVRDPRLPCTLRQALTF  
FLDITSPSPQLRLLLSTLAEPREQQELEALSQDPRRYEEWKWFRCP  
TLLVLEQFPSVALPAPLLLTQLPLLQPRYYSVSSAPSTHPGEIHLTVAVL  
AYRTQDGLGPLHYGVCSTWLSQLKPGDPVPCFIRGAPSFRLPPDPSLPCILV  
PGTG IAPFRGFWQERLHDIESKGLQPTMTLVFGCRCSQLDHLRDEVQNAQ  
QRGVFGRVLTAFSREPDNPKTYVQDILRTELA AEVHRVLC LERGHMFVCGDVT  
MATNVLQTVQRILATEGDMELDEAGDVIGVLRDQQR YHEDIFGLTLRTQEV  
TSRIRTQSFSLQERQLRGAVPWAFDPPGSDTNSP

>sp|Q9UNW9|NOVA2\_HUMAN RNA-binding protein Nova-2 OS=Homo sapiens GN=NOVA2 PE=1 SV=1

MEPEAPDSRKRPLETPPEVCTKRSNTGEEGEYFLKVLIPSYAAGSIIGKGGQTIVQLQK  
ETGATIKLSKSKDFYPGTTERVCLVQGTAEALNAVHSFIAEKVREIPQAMTKPEV  
VNILQPQTMTNPDRAKQAKLIVPNSTAGLIIGKGGATVKAVMEQSGAWVQLSQK  
PEGINLQERVVTVSGEPEQVHKAVSAIVQKVQEDPQSSSCLNISYANVAGPVANS  
NPTGSPYASPADVLPA

AAAASAAASGLLPAGLAGVGAFFAALPAFSGTDLLAISTALNTLASYGYNNTNSLGLGL  
NSAAASGVLAAVAAGANPAAAAANLLASYAGEAGAGPAGGAAPPPPPPGALGSFALAA  
AANGYLGAAGAGGGAGGGGGLVAAAAAGAAGGFLTAEKLAAESAKELVEIAVPENLVGA  
ILGKGKTLVEYQELTGARIQISKKEFLPGTRNRRVTITGSPAATQAAQYLISQRVTYE  
QGVRASNPQKVG

>sp|Q8IXF0|NPAS3\_HUMAN Neuronal PAS domain-containing protein 3 OS=Homo sapiens GN=NPAS3  
PE=2 SV=1

MAPTKPSFQQDPSRRERITAQHPLPNQSECRKIYRYDGIYCESTYQNLQALRKEKSRDAA  
RSRRGKENFEFYELAKLLPLAAITSQLDKASIIRLTISYLMRDFANQGDPPWNLMEG  
PPPNTSVKVIQAQRRRSPSALAIEVFEAHLGSHILQSLDGFVFALNQEKGFLYISETVSI  
YLGLSQVELTGSSVFDYVHPGDHVEMAEQLGMKLPPGRGLLSQGTAEAGASSSSSQSE  
TPEVESTSPSLLTTDNTLERSFFIRMKSTLTRGVHIKSSGYKVIHITGRLRLRVSLSH  
GRTVPSQIMGLVVVAHALPPTINEVRIDCHMFVTRVNMDLNIIYCENRISDYMDLTPVD  
IVGKRCYHFIHAEDVEGIRHSHLDLLNKGQCVTKYYRWMQKNGGYIWIQSSATIAINAKN  
ANEKNIWVNYLLSNPEYKDTMPDIAQLPHLPEKTSESSETSDSESDDSGITEDNEN  
SKSDEKGNQSENSEDPEPDRKSGNACDNDMNCNDDGHSSSNPDSRSDDSFEHSDFENP  
KAGEDGFGALGAMQIKVERYVESESDLRLQNCESLTSDSAKDSDSAGEAGAQAASSKHQKR  
KKRRKRQKGSASRRRLSSASSPGGLDAGLVEPPRLSSPNSASVLKIKTEISEPINFDN  
DSSIWNYPNREISRNEPYSMTKPPSSEHFSPQGGGGGGGGGLHVAIPDSVLTTPPG  
ADGAAARKTQFGASATAALAPVASDPLSPPLSASPRDKHPNGGGGGGGGGAGGGGPSA  
SNSLLYTGDLALQRLQAGNVVPLVHRVTGTLAATSTAAQRYTTGTIRYAPAEVTLAM  
QSNLLPNAHAVNFVDVNSPGFLDPKTPMEMLYHHVHRLNMSGPFGGAVSAASLTQMPAG  
NVFTTAEGLFSTLPFPVYSNGIHAAQTLERKED

>sp|Q8IUM7|NPAS4\_HUMAN Neuronal PAS domain-containing protein 4 OS=Homo sapiens GN=NPAS4  
PE=1 SV=1

MYRSTKGASKARRDQINAEIRNLKELLPLAEADKVRLSYLHIMSLACIYTRKGVFFAGGT  
PLAGPTGLLSAQELEDIVAALPGFLLVFTAEGKLLYLSSESVSEHLGHSMVDLVAQGDSIY  
DIIDPADHLTVRQQLTLPSALDTRLFRCRFNTSKSLRRQSAGNKLVLIRGRFHAHPGA  
YWAGNPVFTAFCALEPRPRPGPGPGPASLFLAMFQSRHAKDLALLDISESVLIYLG  
ERSELLCKSWYGLLHPEDLAHASAQHYRLLAESGDIQAEMVVRLQAKTGGWAWIYCLLYS  
EGPEGPITANNYPISDMEAWSLRQLNSEDQAAYVLGTPTMLPSFPENILSQECSSTN  
PLFTAALGAPRSTSFPSAPELSVVSASEELPRPSKELDFSYLTFPSGPEPSLQAEISKDL  
VCTPPYTPHQPGGCAFLFSLHEPFQTHLTPSSSTLQEQLTPSTATFSDQLTPSSATFPDP  
LTSPLQGGQLTETSVRSYEDQLTPCTSTFPDQLLPSTATFPEPLGSPAHEQLTPSTAFQA  
HLDSPSQTFPEQLSPNPTKTYFAQEGCSFLYEKLPPSPSSPGNGDCTLLALAQLRGPLSV  
DVPLVPEGLLTPEASPVKQSFHYSEKEQNEIDRLIQQISQLAQGMDRPFSAEAGTGGL  
PLGGLEPLDSNLSLGSAGPPVLSLDLKPWKCELDLADPDNMFLEETPVEDIFMDLSTP  
DPSEEWGSGDPEAEGPGGAPSPCNNLSPEDHSFLEDLATYETAFETGVSAPFYDGFDEL  
HQLQSQVQDSFHEDGSGGEPTF

>sp|P48145|NPBW1\_HUMAN Neuropeptides B/W receptor type 1 OS=Homo sapiens GN=NPBW1 PE=1  
SV=2

MDNASFSEPWPANASGPDPALSCSNASTLAPLPAPLAVAVPVVYAVICAVGLAGNSAVLY  
VLLRAPRMKTVTNLFIILNLAIADLFTLVLPINIADFLLRQWPFGELMCKLIVAIQYNT  
FSSLYFLTVMADRYLVVLATAESRRVAGRTYSAARAVSLAVWGIVTLVVLPAVFAVRLD

DEQRRQCVLVFPQPEAFWWRASRLYTLVLGFAIPVSTICVLYTTLLCRLHAMRLDSHAK  
ALERAKKRVTFLVVAILAVCLLCWTPYHLSTVVALTTDLPQTPLVIAISYFITSLSYANS  
CLNPFLYAFLDASFRNRNLRLITCRAAA

>sp|Q9BY65|NPCR1\_HUMAN Nasopharyngeal carcinoma down-regulated gene protein 1 OS=Homo  
sapiens GN=NPCDR1 PE=4 SV=2

MPTVKTRKLNSELELYLAQGHTMSEWGNLDMDFSLPELRADQRLCLNFQDPFLPLVDAHG  
IEKCRAFSFSVEKFCLPLVMKGILQKGVSPLNSSIDYGRLLAKKESL

>sp|Q9UND3|NPIA1\_HUMAN Nuclear pore complex-interacting protein family member A1 OS=Homo  
sapiens GN=NP1A1 PE=2 SV=3

MFCCLGYEWLSGGCKTWHSWVINTLADHRHRTDFGGSPWLLIITVFLRSYKFAISLCT  
SYLCVSFLKTIFFSQNGHDGSTDVQQARRSNRRRQEGIKIVLEDIFTLWRQVETKVRK  
IRKMKVTTKVNHRDKINGKRKTAKHLRKLKMKEREHGEKERQVSEAEENGKLDMEIHT  
YMEMFQRAQALRRRAEDYYRCKITPSARKPLCNVRMAAVEHRHSSGLPYWPYLTAECLK  
NRMGHQPPPPTQQHSIIDNSLSLKTPECLLTPLPPSALPSADDNLKTPAECLLYPLPPS  
ADDNLKTPPECLLTPLPPSAPPSVDDNLKTPPECVCSLPFHPQRMIIISRN

>sp|E9PJ23|NPIB6\_HUMAN Nuclear pore complex-interacting protein family member B6 OS=Homo  
sapiens GN=NP1B6 PE=3 SV=1

MVKLSIVLTPQFLSHDQSLTKELQQHVKSVTCPCEYLKRVINSLAVYRHRETDFGVGV  
DHPGQHGKTPSPQKLDNLIIGFLRRYTFNIFCTSCLCVSFLKTIFFSRNGHDGSMD  
VQQRWRSNRSRQKGLRSICMHTKKRVSSFRGNKIGLKDVITLRRHVETKVRKIRKRKV  
TTKINRDKINGKRKTARKQKMFQRAQELRRRAEDYHKCKIPPSARKPLCNWVRMVAE  
RHSSGLPYWPYLTAECLKNRMGRQPPPPTQQHSIIDNSLSLKTPECLLTPLPPSVDDNI  
KECLAPLPPSPLPPSVDDNLKECLFVPLPPSPLPPSVDDNLKTPPLATQEAEEVEKPPKP  
KRWRVDEVEQSPKPKRRRVDEVEQSPKPKRQEAQAQLPKPKRRRLSKLRTRHCTQAWA  
IRINP

>sp|Q9BXD5|NPL\_HUMAN N-acetylneuraminate lyase OS=Homo sapiens GN=NPL PE=1 SV=1

MAFPKKKLQGLVAATITPMTENGEINFSVIGQYVDYLVEQGVKNIFVNGTTGEGLSLSV  
SERRQVAEEWVTGKDKLDQVIIHVGALSLKESQELAQHAAEIGADGIAVIAPFFLKPT  
KDILINFLKEVAAAAPALPFYYYHIPALTGKIRAEELLDGILDKIPTFQGLKFSDDL  
DFGQCVDQNRQQQFAFLFGVDEQLLSALVMGATGAVGSTYNLGGKTNQMLEAFEQKDFS  
LALNYQFCIQRFINFFVKLGFGVSQTKAIMTLVSGIPMGPPRLPLQKASREFTDSAEAKL  
KSLDFLSFTDLKDGNEAGS

>sp|Q8N729|NPW\_HUMAN Neuropeptide W OS=Homo sapiens GN=NPW PE=1 SV=2

MAWRPGERGAPASRPRLALLLLLLLLPLPSGAWYKHVASPRYHTVGRAAGLLMGLRRSPY  
LWRRALRAAAGPLARDTLSPEPAAREAPLLPSWVQELWETRRRSSQAGIPVRAPRSPRA  
PEPALEPESLDFSGAGQRLRRDVSRAVDPAANRLGLPCLAPGPF

>sp|Q8N912|NRAC\_HUMAN Nutritionally-regulated adipose and cardiac enriched protein  
homolog OS=Homo sapiens GN=NRAC PE=2 SV=1

MRTAAGAVSPDSRPETRRQTRKNEAAWGPRVCRAEREDNRKCPPSILKRSRPEHHRPEA  
KPQRTSRRVWFREPPAVTVHYIADKNATATVRVPGRPRPHGGSLLLQLCVCVLLVLALGL  
YCGRAKPVATALEDLRARLLGLVLHLRHVALTCWRGLRL

>sp|Q86VF7|NRAP\_HUMAN Nebulin-related-anchoring protein OS=Homo sapiens GN=NRAP PE=1 SV=2

MNVQPCSRGCGYVPAEKISCIDQIWHKACFHCVECKMMLSVNNFVSHQKPKPYCHAHNPK  
NNTFTSVYHTPLNLNVRTFPEAISGIHDQEDGEQCKSVFHWDMKSKDKEGAPNRQPLANE

RAYWTGYGEGNAWCPGALPDPEIVRMVEARKSLGEEYTEDYEQPRGKGSFPAMITPAYQR  
AKKANQLASQVEYKRGHDERISRSTVVDTPELLRSKAGAQLQSDVRYTEDYEQQRGKGS  
FPAMITPAYQIAKRANELASDVRYHQYQKEMRGMAGPAIGAEGILTRECADQYGGGYPE  
EYEEHRGKGSFPAMITPAYQNAKKAHELASDIKYRQDFNKMKGAAHYHSLPAQDNLVLKQ  
AQSVNKLVSVEYKKDLESSRGHSINYCETPQFRNVSKISKFTSDNKYKENYQNHMRGRY  
EGVGMDRRTLHAMKVGSLASNVAYKADYKHDIVDYNYPATLTPSYQTAMKLVPLKDANYR  
QSIDKLKYSSVTDTQPQIVQAKINAQQLSHVNYRADYEKNKLNLTLPQDVPQLVKAKTNAK  
LFSEVKYKEGWEKTKGKGFEMKLDAMSLAAKASGELASNIKYKEEYEKTKGKAMGTADS  
RLHSLQIAKMSSEVEYKKGFEESKTRFHLPMDMVNIRHAKKAQTLASDLDRKKLHEYT  
VLPEDMKTQWAKKAYGLQSELQYKADLAWMKGVGWLTEGSLNLEQAKKAGQLVSEKNYRQ  
RVDELKFTSVTDSQMEHAKKSQELQSGVAYKAGNEQSVHQYTISKDEPLFLQARANAAN  
LSEKLYKSSWENQKAKGFELRLDSLTFLLAAKARDLASEVKYKEDYERSRGKLGAKDVQ  
GDSQMSHSLQMSKLQSELEYKKGFEEDTKSQCHVSLDMVHLVHARKAQHLATDVGYKTAEH  
HFTALPTDMKVEWAKKAYGLQSDNQYRADVKWMKGMGWVATGSLNVEQAKKAGELISEKK  
YRQHPDALKFTSIKDTPEMVQARISYTAQVDRLYREQGENIKHHYPTADLPEVLLAKLN  
AMNISETRYKESWSKLRDGGYKLRDLALPFQAAKASGEIISDYKYKEAFEKMKGQMLGSR  
SLEDDISLAHSVYATSLQSDVNYKKGFEHSAQFHLPLDMAALVHAKKAQTLASNQDYKH  
PLPQYTSLAEDLRLSACAKAHKLQSENLYRSDLNFMRGVACVIPGTLEIEGRKKASELIS  
ESKYRQHPHSFKYTAVTDTPNLLHAKFSNQITNERLYKAAGEDARHEYTMTLGLPEFIRA  
KTNAANLSDARYKESWRNLRAQGYKLTIEALPFQAARASGDIASDFLYRHDFVKERGLI  
GPQSVRDDPRIQHCRRMGQLQSELQYRRGATSSQAQFHLPMDMVHLVHAKNAQALASDHD  
YRTQYHKFTALPEDLKMAWAKKAHALQSELRYKSDLIGMKIGWLALRSPQMESAKKAGE  
LISETKYRKKPDSIKFTTVVDSPLDVHAKNSYMHCMERNMYRSGDAESLHRYTLIPDHPDF  
TRARLNALHLSKVYRNSWEQTRAGSYDFRLDAIPFQTARASREIASDFRYKEAFLDRG  
LQIGYRSVDDDPKMHFLNVGRLQSDNEYKKDFAKSRSQFHSSTDQPGLLQAKRSQQLAS  
DVHYRQLPLPQPTCDPEQLGLRHAQKAHLQSDVVKYKSDNLNTRGVGWTPPGSYKVEMARR  
AAELANARGGLGQAYRGAEAVEAGDHQSGEVNPDATILHVKKKKALLL

>sp|Q9UHY1|NRBP\_HUMAN Nuclear receptor-binding protein OS=Homo sapiens GN=NRBP1 PE=1 SV=1

MSEGESQTVLSSGSDPKVESSSAPGLTSVSPVSTSTSAASPEEEEESEDESEILEESP  
CGRWQKRREEVNQRNVPGLDSAYLAMDTTEGVEVVWNEVQFSEKKNYKLQEEKVRAVFDN  
LIQLEHLNIVKFHYWADIKENKARVIFITEYMSSGSLKQFLKTKKNHKTMEKAWKRW  
CTQILSALSYLHSCDPPIIHGNTCDTIFIQHNLIKIGSVAPDTINNHVKTCREEQKNL  
HFFAPEYGEVTNVTAVDIYSFGMCALEMAVLEIQNGESSYVPQEAISSAIQLLEDPLQ  
REFIQKCLQSEPARRPTARELLFHPALFEVPSLKLLAAHCIVGHQHMIPENALEEITKNM  
DTSAVLAEIPAGPGREPVTLYSQSPALEDKFLEDVRNGIYPLTAFGLPRPQQPQQEEV  
TSPVVPSPVKTPTEPAEVETRKVVLMQCNIESVEEGVKHHLTLLKLEDKLNRLHSCDL  
MPNENIPELAAELVQLGFISEADQSRLTSLLEETLNKFNFARNSTLNSAAVTSS

>sp|Q92823|NRCAM\_HUMAN Neuronal cell adhesion molecule OS=Homo sapiens GN=NRCAM PE=1 SV=3

MQLKIMPKKKRLSAGRVPLILFLCQMISALEVPLDPKLEDLVQPPTITQQSPKDYIIDP  
RENIVIQCEAKGKPPPSFSWTRNGTHFDIDKDPLVTMKGPGTGLIINIMSEGKAETIEGV  
YQCTARNERGAAVSNNIVVRPSRSLWTKEKLEPITLQSGQSLVPCRPPIGLPPPIIFW  
MDNSFQRLPQSERVSQGLNGDLYFSNVLPEDTREDYICYARFNHTQTIQQKQPISVKVIS  
VDELNDTIAANLSDTEFYGAKSSRERPPTFLTPEGNASNKEELRGNVLSLECIAEGLPTP  
IIYWAKEDGMLPKNRTVYKNFEKTLQIIHVSEADSGNYQCIAKNALGAIHHTISVRVKAA

PYWITAPQNLVLSPGEDGTLICRANGNPKPRISWL TNGVPIE IAPDDPSRKIDGDTIIFS  
NVQERS SAVYQC NASNEYGYLLANAFVNVLAEPPIRLTPANTLYQVIANRPALLDCAFFG  
SPLPTIEWFKGAKGSALHEDIYVLHENGTL EIPVAQKDSTGYTTCVARNKLGMAKNEVHL  
EIKDPTWIVKQPEYAVVQRGSMVSFECKVKHDHTLSLTVLWLDNRELPSDERFTVDKDH  
LVVADVSDDDSGTYTCVANTTLDVSASAVLSVVAPTPTAPVYDVPNPPFDLELTDQLD  
KSVQLSWTPGDDNNSPITKFIIEYEDAMHKPGLWHHQTEVSGTQTTAQLKLSPYVNYSFR  
VMAVNSIGKSLPSEASEQYLTKASEPDKNPTAVEGLGSEPDNLVITWKPLNGFESNGPGL  
QYKVS WRQKDGDEWTSVVVANVSKYIVSGTPTFV PYL IKVQALNDMGFAPEPAVVMGHS  
GEDLPMVAPGNVRVNVNSTLAEVHWDVPVPLKSIRGHLQGYRIYYWKTQSSSKRNRHIE  
KKILTFQGSKTHGMLPGLEPF SHYTLNVRV VNGKGEGPASPD RVFNTPEGVPSAPSSLKI  
VNPTLDSL TLEWDPSPHNGILTEYTLKYQPINSTHELGPLVDL KIPANKTRWTLKNLNF  
STRYKFYFYAQT SAGSGSQITEEAVTTVDEAGILPPDVGAGKVQAVNPRISNL TAAAAET  
YANISWEYEGPEHVN FYVEYGVAGSKEEWRKEIVNGSR SFFGLKGLMPGTAYKVRVGAVG  
DSGFVSS E DVFETGPAMASRQVDIATQGWFI GLMCAVALLILILLIVCFIRR NKGGKYPV  
KEKEDAHADPEIQPMKEDDGTGFEYSDAEDHKPLKKGSRTPSDRTVKKEDSDDSLVDYGE  
GVNGQFNEDGSFIGQYSGKKEKEPAEGNESSEAPSPV NAMNSFV

>sp|Q9H7Z3|NRDE2\_HUMAN Protein NRDE2 homolog OS=Homo sapiens GN=NRDE2 PE=1 SV=3

MALFPAFAGLSEAPDGGSSRKELDWLSNPSFCVGSITSLSQTEAAPAHVSEGLPLTRSH  
LKSESSDES DTNKKLKQTSRKKKKEKKKKRKHQHKKTKRKHGPSSSRSETDTDSEKDK  
PSRGGVGSKKESEEPNQGNAAADTGHRFVWLEDIQA VTGETFRTDKKPDANWEYKSLY  
RGDIARYKRKGDSLGINPKKQCISWEGTSTEKKHSRKQVERYFTKKS VGLMNIDGVAIS  
SKTEPPSSEPI SFIPVKLEDAAPVTTWLNPLGIYDQSTTHWLQGQGPPEQESKQPD AQP  
DSESAALKAKVEEFNRRVRENPRDTQLWMAFVAFQDEVMKSPGLY AIEEGEQEKRRSLK  
LILEKKLAILERAIESNQSSVDLKLAKLKLCTEFWEPSTLVKEWQKLIFLHPNNTALWQK  
YLLFCQSQSFSTFSISKIHS LYGKCLSTLSAVKDGSI LSHPALPGTEEAMFALFLQQCHFL  
RQAGHSEKAISLFQAMVDFTFFKPDSVKDLPTKGQVEFFEPFWD SGEP RAGEKGARGWKA  
WMHQQERGGWV VINPDEDDDEPEEDDQEIKDKTLPRWQIWLAAERSRDRHWRPWRPKT  
KKQTEEDCEDPERQVLFDDIGQSLIRLSSHDLQFQLVEAFLQFLGVP SGFTPPASCLYLA  
MDENSIFDNGLYDEKPLTFFNPLFSGASCVGRMDRLGYPRWTRGQ NREGEEFIRNVFHLV  
MPLFSGKEKSQLCF SWLQYEIAKVIWCLHTKNKKRLKSQGNCKKLAKNLLKEPENCNNF  
CLWKQYAHLEWLLGNTEDARKVFDTALGMAGSRELKDS D LCELSLLYAELEVELSPEVRR  
AATARAVHILTKL TESSPYGPTYGQVLAVHILKARKAYEHALQDCLGDCVSNPAPT DSC  
SRLISLAKCFMLFQYLTIGIDAAVQIYEQVFAKLNSSVFPEGSGEGDSASSQSWTSVLEA  
ITLMHTSLLRFHMKVSVYPLAPLREALSQALKLYPGNQVLWRSYVQIQNKSHSASKTRRF  
FDTITRS AKPLEPWLFAIEAEKLRKRLVETVQRLDGREIHATIPETGLMHRIQALFENAM  
RSDSGSQCP LLWRMYLNFLVSLGNKERSKGVFYKALQNC PWAKVLYLDAVEYFPDEMQEI  
LDLMT EKELRVRLPLEELELLLED

>sp|Q6NW34|NEPRO\_HUMAN Nucleolus and neural progenitor protein OS=Homo sapiens GN=NEPRO  
PE=1 SV=3

MMAAVPPGLEPWNVRIPKAGNRS AVTVQNPGAALDLCIAAVIKECHLVILSLKSQTLDA  
ETDVLCAVLYSNHNRMGRHKPHLALKQVEQCLKRLKNMNEGSIQDLFELFSSNENQPLT  
TKVCVPSQPVV ELVLMKVLGACKLLRLLDCCCKTFLLTVKHLGLQEFII LNLMVGLV  
SRLWVLYKGVLRKRLILLYEPLFGLLQEVARIQPM PYFKDFTFPSDITEFLGQPYFEAFKK  
KMPIAFAAKGINKLLNKLFLINEQSPRASEETLLGISKKAKQMKINVQNNVDLGQPVKNK

RVFKEESSEFDVRAFCNQLKHKATQETSFDFKCSQSRLKTTKYSSQKVIGTPHAKSFVQR  
FREAESFTQLSEEIQMAVVWCRSKKLKAQAIFLGNKLLKSNRLKHLEAQGTSLPKKLECI  
KTSICNHLLRSGSIKTSKHHLRQRRSQNKFLRRQRKPQRKLQSTLLREIQQFSQGTRKSA  
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MQINKNSTSGTIKETDDIDDIFALMGV

>sp|Q8WTR8|NET5\_HUMAN Netrin-5 OS=Homo sapiens GN=NTN5 PE=2 SV=2  
MPVTFALLLLGGATADPCYDPQGRPQFCLPPVTQLAAVAASCPQACALSPGNHLGARET  
CNGSLTLALGGPFLLTSVSLRFCTPGPPALILSAAWASGGPWRLWHRPAWPGALGGPER  
VTFHSTPGPKATVAASHLRVEFGGQAGLAAAGLRGRCQCHGHAARCAARARPPRCHCRHH  
TTGPGCESCRPSHRDWPWPATPRHPHPCLPCSCNQHARRCRFNSELFRLSGGRSGGVCE  
RCRHHTAGRHCHYCQPGFWRDPSQPIFSRRACRACQCHPIGATGGTCNQTSQGCTCKLGV  
TGLTCNRCGPGYQQSRSPRMPQCRIPEATTTLATTPGAYSSDPQCQNYCNMSDTRVHMSL  
RRYCQQDHVLAQVLASEAAGPAWQRLAVRVLAVYKQRAQPVRRGDQDAWVPRADLTCCG  
LRLQPGTDYLLLSAVGDPDPTLILDRHGLALPWRPRWARPLKRLQEEERAGGCRGVRA  
PTSPRPEH

>sp|Q8NC67|NETO2\_HUMAN Neuropilin and tolloid-like protein 2 OS=Homo sapiens GN=NETO2  
PE=1 SV=1

MALERLCSVLKVLITVLVVEGIAVAQKTQDGQNIKIHIPATQCGIWWRTSNGGHFASP  
NYPDSYPPNKECIYILEAAPRQRIELTFDEHYIIEPSFECRFDHLEVRDGPFGFSPLIDR  
YCGVKSPLIRSTGRFMWIKFSSDEELEGLGFRAKYSFIPDPDFTYLGGILNPIPDCQFE  
LSGADGIVRSSQVEQEEKTKPGQAVDCIWTIKATPKAKIYLRFLDYQMEHSNECKRNFVA  
VYDGSSSIENLKAFCSTVANDVMLKTGIGVIRMWADEGSRLSRFRMLFTSFVEPPCTSS  
TFFCHSNMCINNSLV CNGVQNCAYPWDENHCKEKKKAGVFEQITKTHGTIIGITSGIVLV  
LLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPPHYELFSLRDKAISADLADLSEELD  
NYQKMRRSSTASRCIHDHHCQSASSVKQSRTNLSSMELPFRNDFAPQPMKTFNSTFKK  
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>sp|P01178|NEU1\_HUMAN Oxytocin-neurophysin 1 OS=Homo sapiens GN=OXT PE=1 SV=1  
MAGPSLACCLLGLLALTSAQYIQNCPLGGKRAAPDLDRKCLPCGPGGKGRCFGPNICCA  
EELGCFVGTAEALRCQEENYLPSPCQSGQKACGSGGRCAVLGLCCSPDGCHADPACDAEA  
TFSQR

>sp|P01185|NEU2\_HUMAN Vasopressin-neurophysin 2-copeptin OS=Homo sapiens GN=AVP PE=1 SV=2  
MPDTMLPACFLGLLAFSSACYFQNCPRGGKRAMSDLELRQCLPCGPGGKGRCFGPSICCA  
DELGCFVGTAEALRCQEENYLPSPCQSGQKACGSGGRCAAFGVCCNDESCVTEPECREGF  
HRRARASDRSNATQLDGPAGALLRLVLQLAGAPEPFEPAPDAY

>sp|Q6P4R8|NFRKB\_HUMAN Nuclear factor related to kappa-B-binding protein OS=Homo sapiens  
GN=NFRKB PE=1 SV=2

MDSLHMLTDPLELPGCDGHGTRIMEDCLLGGTRVSLPEDLLEDPEIFFDVVSLSTWQE  
VLSDSQREHLQQLPQFPEDSAEQQNELILALFSGENFRFGNPLHIAQKLFRDGHFNPEV  
VKYRQLCFKSQYKRYLNSQQQYFHRLLKQILASRSDLLEMARRSGPALPFRQKRPSRT  
PEEREWRTQQRYLKVLREVKEECGDTALSSDEEDLSSWLPSSPARSPSPAVPLRVVPTLS  
TTDMKTADKVELGSDLKIMLKKHHEKRKHQPDHPDLLTGDLTLNDIMTRVNAGRKGLA  
ALYDLAVLKKKVKKEEKKKKIKTIKSEAEDLAEPLSSTEGVAPLSQAPSPLAIPAIKE  
EPLEDLKPCLGINEISSFFSLLEILLLESQASLPMLEERVLDWQSSPASSLNSWFSA  
PNWAEVLPALQYLAGESSRAVPSSFSFVEFKEKTQQWKLLGQSQDNEKELAALFQLWLE

TKDQAFCKQENEDSSDATTVPVRVRTDYVVRPSTGEEKRVFQEQERYRYSQPHKAFTFRM  
HGFESVVGVPVKGVFDKETS LNKAREHSLRSDRPAYVTILSLVRDAAARLPNGEGTRAEI  
CELLKDSQFLAPDVTSTQVNTVVSGALDRLHYEKDPCVKYDIGRKLWIYLHRDRSEEEFE  
RIHQAQAAAAKARKALQQKPKPPSKVKSSSESSIKVLSSGPSEQSQMSLSDSSMPPTPV  
TPVTPTPALPAIPISPPPVSAVNKSGPSTVSEPAKSSSGVLLVSSPTMPHLGTMSPAS  
SQTAPSSQAAARVVSHSGSAGLSQVRVVAQPSLPAVPQQSGGPAQTLQPMPAGQIRVPA  
TATQTKVVPQTMATVPVKAQTTAATVQRPGPGQTGLTVTSLPATASPVSKPATSSPGTS  
APSASTAAVIQNV TGQNI IKQVAITGQLGVKPQTGNSIPLTATNFRIQKDVLR LPPSSI  
TTDAKGQTVLRITPDMMATLAKSQVTTVKLTQDLFGTGGNTTGKGISATLHVTSNPVHAA  
DSPAKASSASAPSSPTGTTVVKVTPDLKPT EASSAFRLMPALGVSVADQKGKSTVASS  
EAKPAATIRIVQGLGVMPKAGQTITVATHAKQGASVASGSGTVHTSAVSLPSMNAAVSK  
TVAVASGAASTPISISTGAPTVRQVPVSTTVVSTSQAGKLPTRITVPLSVISQPMKGKSV  
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IQTVPAASHLQQGTASGSSKAVSTVVVTTAPSPKQAPEQQ

>sp|Q9Y697|NFS1\_HUMAN Cysteine desulfurase, mitochondrial OS=Homo sapiens GN=NFS1 PE=1  
SV=3

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IIFTSGATESNNIAIKGVARFYRSRKKHLITTQTEHKCVLDSCRSLEAEGFQVTYLPVQK  
SGIIDLKELEAAIQPDTSLVSVMTVNNEIGVKQPIAEIGRICSSRKVYFHTDAAQAVGKI  
PLDVNDMKIDLMSISGHKIYGPKGVGAIYIRRRPRVRVEALQSGGGQERGMRS GTVPTPL  
VVGLGAACEVAQQEMEYDHKRISKLSERLIQNIMKSLPDVVMNGDPKHHYPGCINLSFAY  
VEGESLLMALKDVALSSGSACTSASLEPSYVLR AIGTDEDLAHS SIRFGIGRFTTEEEVD  
YTVEKCIQHVKRLREMSPLWEMVQDGDIDLSIKWTQH

>sp|Q6ZNB6|NFXL1\_HUMAN NF-X1-type zinc finger protein NFXL1 OS=Homo sapiens GN=NFXL1 PE=1  
SV=2

MEASWRQVAGGRGRSRGRATAAPSGNGVHLRGAGGGREKGSVGAVPSGTSPGGVATTTAAA  
GSRHSPAGSQALQTTAA SELMSQKKFEEIKKANQAAARKLVEEQFSSSSEEGDEDFEGKQ  
GKILANTFIT YTTQTDGDTRELRTKQYVNEAFQAGAMTCLICIASVKRNQAVWSCSGCF  
CIFHMPCIQKWAKDSQFLVSSVTDDDFGKKDCPWPCPKRFEYKRSETPSRYCYCGKVE  
DPPLDPWLVP HSCGQVCEREFKPPCGHKCLLLCHPGCPPCPKMVTTTCYCKKAKPIPRR  
CSAKEWSCQLPCGQKLLCGQH KCENPCHAGSCQPCPRVSRQKCVCGKKVAERSCASPLWH  
CDQVCGKTLPCGNHTCEQVCHVGACGECPRSGKRFCPCQKSKFSLPCTEDVPTCGDSCDK  
VLECGIHRCSQRCHRGPCETCRQEVEKHCRCGKHTKRMPCHPYLCETKCVKMRDCQKHQ  
CRRKCCPGNCPDCQNCGR TLGCRNHKCPSVCHRGSCYPCPETVDVKCNCGNTKVTVPCG  
RERTTRPPKCKEQCSR PPTCHHTS QEKHRCHF GSCPPCHQPCQKVLEKCGHLCPAPCHDQ  
ALIKQTGRHQPTGPWEQ PSEPAFIQTALPCPPCQVPIPMECLGKHEVSPLPCHAVGPYSC  
KRVCGRILDCQNHTCMKECHKVTKTDGCTGKNKAGPECLHCEEGCSKSRPLGCLHPCILR  
CHPGECPPCVQMLRIKCHCKITSLYVECRKITTADVNEKNLLSCKNQCPKELPCGHRCK  
EMCHPGECPFNCNQVKVLRCPCKRIKKELQCNKVRENQVSI ECDTTCKEMKRKASEIKEA  
EAKAALEEEKRRQQAELEAFENRLKGRRKKNRKRDEVAVELSLWQKHKYYLISVCGVVVV  
VFAWYITHDVN

>sp|Q8N4C6|NIN\_HUMAN Ninein OS=Homo sapiens GN=NIN PE=1 SV=4  
MDEVEQDQHEARLKELFDSFDTTGTGSLGQEELTDLCHMLSLEEVAPVLQQTLLQDNLLG



RVHFDQFKEALILILSRTLNEEHFQEPDCSLEAQPKYVRGGKRYGRRSLPEFQESVEEF  
PEVTVIEPLDEEARPSHIPAGDCSEHWKTQRSEYEAEGLRFWNPDDLNASQSGSSPPQ  
DWIEEKLQEVCELDGITRDGHLNRKKLVSICEQYGLQNVDGEMLEEVFHNLDPDGTMSVE  
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GMGHASVERILDTWQEEGIENSQEILKALDFSLDGNINLTELTLALENELLVTKNSTHQA  
ALASFKAIEIRHLLERVDQVVREKEKLRSDLDKAEKLSLMASEVDDHHAAIERRNEYNL  
KLDEEYKERIAALKNELRKEREQILQQAGKQRLELEQEIEKAKTEENYIRDRLALSLKEN  
SRLENELLENAEKLAEYENLTNKLQRNLENVLAEKFGDLDPSSAEFFLQEERLTQMRNEY  
ERQCRVLQDQVDELQSELEEYRAQGRVLRPLKNPSEEVEANS GGIEPEHGLGSEECNP  
LNMSIEAELVIEQMKEQHHRDICCLRLELEDKVRHYEKQLDET VVSCKKAQENMKQRHEN  
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LQHEMELKARLTQAQASFEREREGLQSSAWTEEKVRGLTQELEQFHQEQLTSLVEKHTLE  
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RQELKDLQEQQREKSSQWEFEKDELTECAEAQELLKETLKRKTTSLVLTQEREMLEKT  
YKEHLNSMVVERQQLLDLEDLRNVSETQQSLLSDQILELKSSHRELREEREVL CQAGA  
SEQLASQRLERLEMEHDQERQEMMSKLLAMENIHKATCETADRERAEMSTEISRLQSKIK  
EMQQATSPLSMLQSGCQVIGEEVEGDGALSLLQQGEQLLEENG DVLLSLQRAHEQAVKE  
NVKMATEISRLQQLKQLEPGLVMSSCLDEPATEFFGNTAEQTEQFLQQNR TKQVEGVTR  
RHLVSDLEDDEVRLDGTGTSSVQRQEVKIEESEASVEGFSELENSEETRTESWELKNQI  
SQLQEQLMMLCADCDRASEKKQDLLFDVSVLKKKLMLERIPEASPKYKLLYEDV SREND  
CLQEELRMOMETRYDEALENNKELTAEVFRQLDELKKMEEVTETFLSLEKSYDEVKIENEG  
LNLVLRLQGKIEKLQESVVQRCDCLWEASLENLEIEPDGNILQLNQTL EECVPRVRSV  
HHVIEECKQENQYLEGNTQLLEKVKAHEIAWLHGTIQTHQERPRVQNQVILEENTL LGF  
QDKHFQHQATIAELELEKTKLQELTRKLKERVITLVKQKDVLSHGEEK EELKAMMHDLQI  
TCSEMQQKVVELLRYESEKLQQENSILRNEITTLNEEDSISNLKGLTNGS QEEMWQKTET  
VKQENAAVQKMVENLKKQISELKIKNQQLDLENTELSQKNSQNQEKLQELNQRLTEMLCQ  
KEKEPGNSALEEREQEKFNLKEELERCKVQSSTLVSSLEAELSEVKIQTHIVQQENHLLK  
DELEKMKQLHRCPLDSDFFQKISSVLSYNEKLLKEKEALSEELNSCVDKLAKSSLLEHRI  
ATMKQEQQSWEHQSASLKSQVLASQEKVQNLEDTVQNVNLQMSRMKSDLRVTQQEKEALK  
QEVMSLHKQLQNAAGKSWAPEIATHPSGLHNQQKRLSWDKLDHLMNEEQQLLWQENERLQ  
TMVQNTKAELTHSREKVRQLESNLLPKHQKHLNPSGTMNPTEQEKL SLKRECDQFQKEQS  
PANRKVSQMNSLEQELETIHLENEGLKKKQVKLDEQLMEMQHLRSTATPSPSPHAWDLQL  
LQQQACPMVPREQFLQLQRQLQAERINQHLQEELNRTSETNTPQGNQEQLVTVM EERM  
IEVEQKLKLVKRLLQEKVNQLKEQVSLPGHLCSPTSHSSFNSSFSTSLYCH

>sp|Q9Y221|NIP7\_HUMAN 60S ribosome subunit biogenesis protein NIP7 homolog OS=Homo sapiens  
GN=NIP7 PE=1 SV=1

MRPLTEETRMFEKIAKYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISG  
DKLVSLGTCFGKFTKTHKFRHLVTALDYLA PYAKYKVWIKPGAEQSFLYGNHVLKSGLGR  
ITENTSQYQG VVVYSMA DIPLGFGVAAKSTQDCRKVDPM AIVVFHQADIGEYVRHEETLT  
>sp|Q5VXU1|NKAI2\_HUMAN Sodium/potassium-transporting ATPase subunit beta-1-interacting  
protein 2 OS=Homo sapiens GN=NKAIN2 PE=2 SV=1  
MGYCSGRCTLIFICGMQLVCVLERQIFDFLGYQWAPILANFVHIIIVILGLFGTIQYRPR  
YITGYAVWLVLWVTWNVFCFYLEAGDLSKETDLILTFNISMHRSWWMENGP GCTVTSV  
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FIGGFDSYGYQGPQKTSHLQLQPMYMSK

>sp|Q8N5F7|NKAP\_HUMAN NF-kappa-B-activating protein OS=Homo sapiens GN=NKAP PE=1 SV=1

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GGLSQGSRNQSYRSRSRSRERSAPRGIPFASASSSVYYSYRPGSDKPWPSLLDK  
EREESLRQKRLSERERIGELGAPEVWGLSPKNPEPDSDEHTPVEDEEPKKSTTSASTSEE  
EKKKKSSRSKERSKKRRKKKSSKRKHKKYSEDSDSDDSETDSSDEDNKRRAKAKKKEK  
KKKHRSKYYKKRSKSRKESDSSSKESQEEFLENPWKDRTKAEEPSDLIGPEAPKTLT  
SQDDKPLNYGHALLPGEGAAMAEYVKAGKRIPRRGEIGLTSEEIASFECSGYVMGSRHR  
RMEAVRLKENQIYSADEKRALASFNQEERRKRENKILASFREMVRKTKGKDDK

>sp|Q99801|NKX31\_HUMAN Homeobox protein Nkx-3.1 OS=Homo sapiens GN=NKX3-1 PE=1 SV=2

MLRVPEPRPGEAKAEGAAPTPSKPLTSFLIQDILRDGAQRQGGRTSSQRQRDPEPEPEP  
EPEGGRSRAQAQNDQLSTGPRAAPEEAETLAETEPERHLGSYLLDSENTSGALPRLPQTP  
KQPQKRSRAAFSHTQVIELERKFHQKYLAPERAHLAKNLKLTETQVKIWFQNRRYKTK  
RKQLSSELGDLEKHSPLALKEEAFSRASLVSVINSPYYPYLYCVGSWSPAFW

>sp|Q8NOW4|NLGNX\_HUMAN Neuroligin-4, X-linked OS=Homo sapiens GN=NLGN4X PE=1 SV=1

MSRPQGLLWLPLLFTPVCMVLSNVLLWLTALAIFTLIDSQAQYPVNTNYGKIRGLRT  
PLPNEILGPVEQYLGVPYASPTGERRFPPEPPSSWTGIRNTTQFAAVCPQHLDERSLL  
HMLPIWFTANLDTMTYVQDQNECLYLNIVPTEDDIHDQNSKKPVMVYIHGGSYMEG  
TGNMIDGSILASYNVIVITINYRLGILGFLSTGDQAAKGYGLLDQIQALRWIENVGA  
FGGDPKRVTFGSGAGASCVSLLTSLHYSEGLFQKAI IQSGTALSSWAVNYQPAKYTRIL  
ADKVGCNMLDTTDMVECLRNKNYKELIQQTITPATYHIAFGPVIDGDVIPDDPQILMEQG  
EFLNYDIMLGVNQGEGLKFVDGIVDNEDGVTNDFDFSVSNFVDNLYGYPEGKDTLRETI  
KFMYTDWADKENPETRRKTLVALFTDHWVAPAVATADLHAQYGSPTYFYAFYHHCQSEM  
KPSWADSAHGDEVPIYVFGIPMIGPTELFSCNFSKNDVMLS AVVMTYWTNFAKTGDPNPV  
PQDTKFIHTKPNRFEEVAWSKYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNL  
NEIFQYVSTTTKVPDMTSFYPYGTTRSPAKIWPTTKRPAITPANNPKHSDPHKTGPED  
TTVLIETKRDYSTEISVTI AVGASLLFLNILAFAALYKKDKRRHETHRRPSPQRNTND  
IAHIQNEEIMSLQMKQLEHDHECESLQAHDTLRLTCPPDYTLTLRRSPDDIPLMTPNTIT  
MIPNTLTGMQPLHTFNTFSGGQNSTNLPHGHSTTRV

>sp|Q8NA29|NLS1\_HUMAN Sodium-dependent lysophosphatidylcholine symporter 1 OS=Homo

sapiens GN=MFSD2A PE=1 SV=1

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CALGFFLQIYLLDVAQKDEEVVFCSSSQVGPFSASIIILFVGRAWDAITDPLVGLCISKS  
PWTCLGRMLPWIIFSTPLAVIAYFLIWFVPDFPHGQTYWYLLFYCLFETMVTCTHVPYSA  
LTMFISTEQTERDSATAYRMTVEVLGTVLGTATIGGQIVGQADTPCFQDLNSSTVASQSAN  
HTHGTTSHRETQKAYLLAAGVIVCIYIIICAVILILGVREQREPYEAAQSEPIAYFRGLRL  
VMSHGPYIKLITGFLFTSLAFMLVEGNFVLFCTYTLGFRNEFQNL LLAIMLSATLTIPIW  
QWFLTRFGKKTAVYVGISSAVPFLILVALMESNLIITYAVAVAAGISVAAAFLPWMLP  
DVIDDFHLKQPHFHGTEPIFFSFYVFFTKFASGVSLGISTLSLDFAGYQTRGCSQPERVK  
FTLNMLVTMAPIVLILLGLLLFKMYPIDEERRRQNKKALQALRDEASSGCGSETDSTELA  
SIL

>sp|P22307|NLTP\_HUMAN Non-specific lipid-transfer protein OS=Homo sapiens GN=SCP2 PE=1  
SV=2

MSSSPWEPATLRRVFVVGVMTKFVKPGAENSRDYPDLAEEAGKKALADAQIPYSAVDQA

CVGYVFGDSTCGQRAIYHSLGMTGIP I INVNNNCATGSTALFMARQLIQGGVAECVLALG  
FEKMSKSGSLGIKFSDRTIPTDKHVDLLINKYGLSAHPVAPQMFGYAGKEHMEKYGTKIEH  
FAKIGWKNHKHSVNNPYSQFQDEYSLDEVMASKEVFDFTILQCCPTSDGAAAAILASEA  
FVQKYGLQSKAVEILAQEMMTDLPSSFEEKS I IKMVGFDMSKEAARKCYEKSGLTPNDID  
VIELHDCFSTNELLYEALGLCPEGQGATLVDRGDNTYGGKWVINPSGGLISKGHPLGAT  
GLAQCAELCWQLRGEAGKRQVPGAKVALQHNLGIGGAVVTLYKMGFPEAASSFRTHQIE  
AVPTSSASDGFKANLVFKEIEKKLEEEGEQFVKKIGGIFAFKVKDGGPGKEATWVVDVKN  
GKGSVLPNSDKKADCTITMADSDFLALMTGKMNPQSAFFQGKLKITGNMGLAMKLQNLQL  
QPGNAKL

>sp|Q9HB89|NMUR1\_HUMAN Neuromedin-U receptor 1 OS=Homo sapiens GN=NMUR1 PE=2 SV=1

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MPICATYLLIFVVGAVGNGLTCLVILRHKAMRTPTNYLFS LAVSDLLVLLVGLPLELYE  
MWHNYPFLLVGGCYFRTLLFEMVCLASVLNVTALSVRYVAVVHPLQARSMVTRAHVRR  
VLGAVWGLAMLCSLNTSLHGIRQLHVPCRGVPVDSAVCMLVRPRALYNMVVQTTALLFF  
CLPMAIMSVLYLLIGLRLRRERLLLMQEA KGRGSAAARSRYTCRLQQHDRGRRQVTKMLF  
VLVVVFGICWAPFHADRVMSVVSQWTDGLHLAFQHVHVISGIFYLGSAA NPVLYSLMS  
SRFRETFFQEALCLGACCHRLRPRHSSHLSRMTTGSTLCDVGSLSWVHPLAGNDGPEAQ  
QETDPS

>sp|P40261|NNMT\_HUMAN Nicotinamide N-methyltransferase OS=Homo sapiens GN=NNMT PE=1 SV=1

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DIGSGPTIYQLLSACESFKEIVVTDYSDQNLQELEKWLKKEPEAFDWSPVVTVYVCDLEGN  
RVKGPEKEEKL RQAVKQVLKCDVTQSQPLGAVPLPPADCVLSTLCLDAACPDLP TYCRAL  
RNLGSLKPGGFLVIMDALKSSYIMIGEQQFSSPLGREAVEAAVKEAGYTI EWFEVISQ  
SYSSTMANNEGLFSLVARKLSRPL

>sp|Q13423|NNTM\_HUMAN NAD(P) transhydrogenase, mitochondrial OS=Homo sapiens GN=NNT PE=1  
SV=3

MANLLKTVVTGCSCPLLSNLGCKGLRVKKDFLRTFYTHQELWCKAPVKPGIPYKQLTVG  
VPKEIFQNEKRVALSPAGVQNLVKQGFNVVSVESGAGEASKFSDDHYRVAGA QIQGAKEVL  
ASDLVVKVRAPMVNPTLGVHEADLLKTSGLTISFIYPAQNPELLNKL SQRKTTVLAMDQV  
PRVTIAQGYDALSSMANIAGYKAVVLAANHFRFFTGQITAAGKVPPAKILIVGGGVAGL  
ASAGAAKSMGAIVRGFDTRAAALEQFKSLGAEPLEVDL KESGEGQGGYAKEMSKEFIEAE  
MKLFAQQCKEVDILISTALIPGKKAPVLFNKEMIESMKEGSSVVVDLAAEAGGNFETTKPG  
ELYIHKGITHIGYTDLP SRMATQASTLYSNNITKLLKAISPDKDNFYFDVKDDFDFTMG  
HVIRGTVMKDGKVI FPAPTPKNIPQGAPVKQKTVAELEAEKAATITPFRKTMSTASAYT  
AGLTGILGLGIAAPNLA FSQMVTTFGLAGIVGYHTVWGVTPALHSPLMSVTNAISGLTAV  
GGLALMGHLYPSTTSQGLAALAAFISSVNIAGGFLVTQRMLDMFKRPTDPPEYNYLYLL  
PAGTFVGGYLAALYSGYNIEQIMYLGSLCCVGALAGLSTQGTARLGNALGMIGVAGGLA  
ATLGVLPKGPPELLAQMSGAMALGGTIGLTI AKRIQISDLPQLVAAFHSLVGLAAVLTCLIA  
EYII EYPHFATDAAANLTKIVAYLGTYIGGVTFSGSLIAYGKLQGLLKSAPLLLPRHLL  
NAGLLAASVGGIIPFMVDPSTTGTITCLGSVSALSAVMGVTLTAAIGGADMPVVITVLNS  
YSGWALCAEGFLLNNLLTIVGALIGSSGAILSYIMCVAMNRS LANVILGGYGTSTAGG  
KPMEISGTHTEINL DNAIDMIREANSIIITPGYGLCAAKAQYPIADLVKMLTEQGKKVRF  
GIHPVAGRMPGQLNVLLAEAGVPYDIVLEMDEINHDFPDTDLVLVIGANDTVNSAAQEDP  
NSIIAGMPVLEVWKSQVIVMKRSLGVGYAAVDNPIFYKPNTAMLLGDAKKTCDALQAKV

RESYQK

>sp|Q9H6W3|N066\_HUMAN Bifunctional lysine-specific demethylase and histidyl-hydroxylase  
N066 OS=Homo sapiens GN=N066 PE=1 SV=2

MDGLQASAGPLRRGRPKRRRKQPHSGSVLALPLRSRKIRKQLRSVSVSRMAALRTQTLP  
ENSEESRVESTADDLGDALPGGA AVPAARREPYGHLGPAELLEASPAARSLQTPSA  
RLVPASAPPARLVEVPAAPVRVETSALLCTAQHLAAVQSSGAPATASGPQVDNTGGEP  
WDSPLRRVLAELNRISSRRRAARLFEWLIAPMPDPHFYRRLWEREAVLVRRQDHTYYQG  
LFSTADLDSMLRNEEVQFGQHLDAAARYINGRRET LNPPGRALPAAWSLYQAGCSLRLLC  
PQAFSTTVWQFLAVLQEFGSMAGSNVYLTTPNSQGFAPHYDDIEAFVLQLEGRKLWRVY  
RPRVPTEELALTSSPNFSQDDLGEVPLQTVLEPGDLLYFPRGFIHQAECDGVHSLHLTL  
STYQRNTWGFLEAILPLAVQAAMEENVEFRRGLPRDFMDYMQAHSKDPRTAFMEK  
VRVLVARLGHFAPVDAVADQRAKDFIHDSLPPVLTDRERALSUYGLPIRWEAGEPVNVA  
QLTTETEVMHLDGFIARLVGEGGHLFLYYTVENSRYHLEPKCLEIYPQQADAMELLLG  
SYPEFVRVGDLPDSDVEDQLSLATTLYDKGLLLT KMPALN

>sp|Q99466|NOTCH4\_HUMAN Neurogenic locus notch homolog protein 4 OS=Homo sapiens GN=NOTCH4  
PE=1 SV=2

MQPPSLLLLLLLLLL CVSVVRPRGLLCGSFPEPCANGGTCLSLSLGQGTCCAPGFLGE  
TCQFPDPCQNAQLCQNGGSCQALLPAPLGLPSSPSPLTPSFLCTCLPGFTGERCQAKLED  
PCPPSFCSKRGRCHI QASGRPQCSCMPGWTGEQCQLRDFCSANPCVNGGVCLATYPQIQ  
HCPPGFEGHACERDVNECFQDPGCPKGT SCHNTLGSFQCLCPVGQEGPRCEL RAGPCPP  
RGCSNGGTCQLMPEKDS TFHLCCLPPGFIGPDCVNPDCVSHQCQNGGTCQDGLDITYC  
LCPETWTGWDCSEDVDECETQGP PHCRNGGTCQNSAGSFHCVCVSGWGGSCEENLDDCI  
AATCAPGSTCIDRVGSFSCLCPPGRTGLLCHLEDMCLSQPCHGDAQSTNPLTGSTLCLC  
QPGYSGPTCHQDLDECLMAQQGPSCEHGGSC LNTPGSFNCLCPPGYTGSRCADHNECL  
SQPCHPGSTCLDLLATFHCLCPPGLEQLCEVETNECASAPCLNHADCHDLLNGFQCICL  
PGFSGRCEEDIDECRSSPCANGGQCQDPGAFHCKCLPGFEGPRCQTEVDECLSDPCPV  
GASCLDLPGAFFCLCPSGFTGQLCEVPLCAPNLCQPKQICKDQKDKANCLCPDGSPGCAP  
PEDNCTCHHGHCRSSCVCDVGTGPECEAELGGCISAPCAHGGTCYPQPSGYNCTCPTG  
YTGPTCSEEMTACHSGPCLNGGSCNPSGGYYCTCPPSHTGPQCQTSTDYCVSAPCFNGG  
TCVNRPGTFSCLCAMGFQGPRCEGKL RPSCADSPCRNRATCQDSPQGPRCLCPTGYTGGS  
CQTLMDLCAQKPCPRNSHCLQTGPSFHCLCLQGTGPLCNLPLSSCQKAALSQGIDVSSL  
CHNGGLCVDSGPSYFCHCPPGFQGS LCQDHVNPCESRPCNQGATCMAQPSGYLCQCAPGY  
DGQNSKELDACQSQPCNHGTCTPKPGGFHCACPPGFVGLRCEGDVDECLDQCHPTGT  
AACHSLANAFYCCQLPGHTGQWCEVEIDPCHSQPCFHGGTCEATAGSPLGFI CHCPKGFE  
GPTCSHRAPSCGFHHCHHGGLCLSPKPGFP PRCACLSGYGGPDCLTPPAPKGC GPPSPC  
LYNGSCSETTGLGGPGFRCSCHSSPGPRCQKPGAKGCEGRSGDGACDAGCSGPGGNWDG  
GDCSLGVPDPWKGCPSHSRCWLLFRDGGCHPQCDSEEC LFDGYDCETPPACTPAYDQYCH  
DHFHNGHCEKGCNTAE CGWDGGDCRPEDGDP EWGPSLALLVLSPPALDQQLFALARVLS  
LTLRVGLWVRKDRDRDMVYPYPGARAEKLG GTRDPTYQERAAPQTQPLGKETDSLSAG  
FVVVMGVDLSRCGPDPASRC PWDPGLLLRFLAAMA AVGALEPLLPGLLAVHPHAGTAP  
PANQLPWPVLCSPVAGVILLALGALLVLQL IRRRRRREHGALWLP PGFTRRPRTQSAPHRR  
RPPLGEDSIGLKALKPKAEVDEDGVMCSGPEEGEEVQA EETGPPSTCQLWSLSGGCGA  
LPQAAMLTTPQESEMEAPDLDRGPDGVTP LMSAVCCGEVQSGTFQGAWLGCPEPWEPLL  
DGGACPAHTVGTGETPLHLAARFSRPTAARRLLEAGANPNQPD RAGRTPLHAAVAADAR

EVCQLLLRSRQTAVDARTEDGTTPLMLAARLAVEDLVEELIAAQADV GARDKWGKTALHW  
AAAVNNARAARSLQAGADKDAQDNREQTPLFLAAREGAVEVAQLLLGLGAARELRDQAG  
LAPADVAHQNRHWDLLTLEGAGPPEARHKATPGREAGPFPRARTVSVVPPHGGGALPR  
CRTLSAGAGPRGGGACLQARTWSVDLAARGGGAYSHCRSLSGVGAGGGPTPRGRRFSAGM  
RGPRPNPAIMRGYGAAGRGGRVSTDDWPCDWVALGACGSASNIPPPCLTPSPERGS  
PQLDCGPPALQEMPINQGGEGKK

>sp|A8MTQ0|NOTO\_HUMAN Homeobox protein notochord OS=Homo sapiens GN=NOTO PE=2 SV=2  
MPSRPRGSPPPAPSGSRVRPPRSGRSPAPRSPTGPNTPRAPGRFESPFSEAILARPDP  
CAPAASQPSGSACVHPAFWTAASLCATGGLPWACPTSWLPAYLSVGFYVPVGPVAPVCG  
LLGFGVTGLELAHCSGLWAFPDWAPTEDLQDTERQQKRVRTMFNLEQLEELEKVFQAKQHN  
LVGKKRAQLAARLKL TENQVRVWFQNRKVYQKQKLRRAAVTSAEASLDEPSSSSIASI  
QSDDAESGVDG

>sp|Q6P988|NOTUM\_HUMAN Palmitoleoyl-protein carboxylesterase NOTUM OS=Homo sapiens  
GN=NOTUM PE=1 SV=2  
MGRGVRVLLLLSLHCAGGSEGRKTWRRRGQQPPPPPRTEAAPAAGQPVESFPLDFTAVE  
GNMDSFMAQVKSLAQSLYPCSAQQLNEDLRLHLLNLSVTNCNDGSPAGYYLKESRGSRRW  
LLFLEGGWYCFNRENCDSRYDTMRRLMSSRDWPRTGTGTGILSSQPEENPYWWNANMVFI  
PYCSDVWSGASSKSEKNEYAFMGALIIQEVVRELLGRGLSGAKVLLLAGSSAGGTGVLL  
NVDRVAEQLEKLGYPATQVRGLADSGWFLDNKQYRHTDCVDTITCAPTEAIRRGIRYWNG  
VVPERCRRQFQEGEEWNCFFGYKYPTLRCPVFVQWLFDEAQLTDNVHLTGQPVQEG  
RLYIQNLGRELRLTKDVPASFAACLSHEIIIRSHWTDVQVKGTSLPRALHCWDRSLHD  
SHKASKTPLKGCVPVHLVDSCPWPHCNPSCTVRDQFTGQEMNVAQFLMHMGFDMQTVAQP  
QGLEPSELLGMLSNGS

>sp|Q06495|NPT2A\_HUMAN Sodium-dependent phosphate transport protein 2A OS=Homo sapiens  
GN=SLC34A1 PE=1 SV=1  
MLS YGERLGSPAVSPLPVRGGHVMRGTAFAAYVPSQVLHRIPGTSAYAFPSLGPVALAEH  
TCPCGEVLERHEPLPAKLALEEEQKPESRLVPKLRQAGAMLLKVPLMLTFLYLFVCSLDM  
LSSAFQLAGGKVAGDIFKDAILSNPVAGLVVGILVTVLVQSSSTSTSIIIVSMVSSGLLE  
VSSAIIPIIMSGNIGTSVTNTIVALMQAGDRDFFRAAFAGATVHDCFNWSVLVLLPLEAA  
TGYLHHITRLVVASFNIHGRDAPDLLKIIITEPFTKLIQLDESVITSIATGDESLRNHS  
LIQIWCHPDSLQAPTSMSRAEANSQTLGNATMEKCNHIFVDTGLPDLAVGLILLAGSLV  
LLCTCLILLVKMLNSLLKGQVAKVIQKVINTDFPAPFTWVTGYFAMVVGASMTFVVQSSS  
VFTSAITPLIGLGVISIERAYPLTLGSNIGTTTTAILAALASPREKLSSAFQIALCHFFF  
NISGILLWYPVPCTRLPIRMAKALGKRTAKYRWFVLYLLVCFLLLPSLVFGISMAGWQV  
MVGVTPTFGALLAFVVLINVLQSRSPGHLPKWLQTWDFLPRWMHSLKPLDHLITRATLCC  
ARPEPRSPPLPPRVFLEELPPATPSPRLALPAHHNATRL

>sp|O95436|NPT2B\_HUMAN Sodium-dependent phosphate transport protein 2B OS=Homo sapiens  
GN=SLC34A2 PE=1 SV=3  
MAPWP ELGDAQPNPDKYLEGAAGQQPTAPDKSKETNKTDNTEAPVTKIELLPSYSTATLI  
DEPTEVDDPWNPLTLQDSG IKWSERDTKGKILCFFQGIGRLILLGFLYFFVCSLDILSS  
AFQLVGGMAGQFFSNSSIMSNPLGLVIGVLVTVLVQSSSTSTSIVVSMVSSSLTVRA  
APIIIMGANIGTSITNTIVALMQVGRSEFRAAFAGATVHDFFNWSVLVLLPVEVATHY  
LEIITQLIVESFHFKNGEDAPDLLKVITKPFTKLIVQLDKKVISQIAMNDEKAKNKS LVK  
IWCKTFTNKTQINVTVPSTANCTSPSLCWTGDIQNWTKMKNVTYKENIAKCQHIFVNFHLP

DLAVGTILLILSLLVLCGCLIMIVKILGSVLKGVATVIKKTINTDFPFPFAWLTGYLAI  
LVGAGMTFIVQSSSVFTSALTPLIGIVITIERAYPLTLGSNIGTTTTAILAALASPGNA  
LRSSLQIALCHFFFNISGILLWYPIPFTRLPIRMAKGLGNISAKYRWFVAVFYLIIFFFLI  
PLTVFGLSLAGWRVLVGVGVVVFIIILVLCRLRLQSRCPRVLPKKLQNNFLPLWMRSL  
KPWDAVVS KFTGCFQMRCCCCRVCCRACLLCDCPKCCRCCKCEDLEEAQEGQDVPVK  
APETFDNITISREAAQGEVPASDSKTECTAL

>sp|Q8N130|NPT2C\_HUMAN Sodium-dependent phosphate transport protein 2C OS=Homo sapiens  
GN=SLC34A3 PE=1 SV=2

MPSSSLPGSQVPHPTLDAVDLVEKTLRNEGTSAPVLEEGDTPWTLPQLKDTSQPWKEL  
RVAGRLRRVAGSVLKACGLLGSlyFFICSLDLSSAFQLLGSKVAGDIFKDNVLSNPVA  
GLVIGVLVTALVQSSSTSSIVSMVAAKLLTVRVSVPIIMGVNVGTSITSTLVSMAQSG  
DRDEFQRAFGSAVHGIFNWLTVLVLLPLESATALLERLSELALGAASLTPRAQAPDILK  
VLTKPLTHLIVQLSDMIMSSATGNATNSSLIKHWCGTTGQPTQENSSCGAFGPCTEKNS  
TAPADRLPCRHLFAGTELTLAVGCILLAGSLLVLCGCLVLIVKLLNSVLRGRVAQVVRT  
VINADFPFPLGWLGGYLAVALAGLTFALQSSSVFTAADVPLMGVGVISLDRAYPLLLGS  
NIGTTTTALLAALASPADRMLSALQVALIHFFFNLAGILLWYLPALRLPIPLARHFGVV  
TARYRWVAGVYLLLFLLPLAAFGLSLAGGMELAAVGGPLVGLVLLVILVTVLQRRRPA  
WLPVRLRSWAWL PVWLHSLPWDRLVTRCCPCNVCSPPKATTKEAYCYENPEILASQQL

>sp|O00476|NPT4\_HUMAN Sodium-dependent phosphate transport protein 4 OS=Homo sapiens  
GN=SLC17A3 PE=1 SV=2

MATKTELSPTARESKNAQDMQVDETLIPRKVPSLCSARYGIALVLHFCNFTTIAQNVIMN  
ITMVAMVNSTSPQSQLNDSSEVLVDSFGGLSKAPKSLPAKSSILGGQFAIWEKWGPPQE  
RSRLCSIALSGMLLCFTA ILIGGFISSETLWPFVVFYIFGGVGCVCCLLWFVVIYDDPVS  
YPWISTSEKEYIISSLKQQVGSSKQPLPIKAMLRSLPIWSICLGCFSHQWLVTMVVYIP  
TYISSVYHVNIRDNGLLSALPFIVAWVIGMVGGLADFLTKKFR LITVRKIATILGSLP  
SSALIVSLPYLNSGYITATALLTLSCGLSTLCQSGIYINVLDIAPRYSSFLMGASRGFSS  
IAPVIVPTVSGFLLSQDPEFGWRNVFFLLFAVNLLGLLFYLI FG EADVQEWAKERKLTRL

>sp|Q99463|NPY6R\_HUMAN Putative neuropeptide Y receptor type 6 OS=Homo sapiens GN=NPY6R  
PE=5 SV=1

MEVSLNHPASNTTSTKNNNSAFFYFESCQPPSPALLLLCIAYTVVLIVGLFGNLSLIIII  
FKKQRKAQNFTSILIANLSLSDTLVCVMCIHFTIITYTMDHWIFGDTMCRLTSYVQSVSI  
SVSIFSLVFTAVERYQLIVNPRGWKPSVTHAYWGITLIWLFSLLSIPFFLSYHLTDEPF  
RNLSLPTDLYTHQVACVENWPSKKDRLLFTTSLFLLQYFVPLGFILICYLKIVICLRRRN  
AKVDKKKENEGRLNENKRINTMLISIVVTFGACWLPRISSMSSLTGIMRC

>sp|Q15466|NROB2\_HUMAN Nuclear receptor subfamily 0 group B member 2 OS=Homo sapiens  
GN=NROB2 PE=1 SV=2

MSTSQPGACPCQGAASRPAILYALLSSSLKAVPRPRSRCLCRQHRPVQLCAPHRTCREAL  
DVLAKTVAFRLNLP SFWQLPPQDQRRLQGCWGPLFLLGLAQDAVTFEVAEAPVPSILKK  
ILLEEPSSSGGGQLPDRPQPSLAAVQWLQCCLESFWSLELSPKEYACLKGTILFNPDPV  
GLQAASHIGHLQQAHWVLCVLEPWCPAAQGRLTRVLLTASTLKS IPTSLLGDLFFRPI  
IGDVDIAGLLGDMLLR

>sp|Q14994|NR1I3\_HUMAN Nuclear receptor subfamily 1 group I member 3 OS=Homo sapiens  
GN=NR1I3 PE=1 SV=2

MASREDELRCNVCGDQATGYHFNALTCEGCKGFFRRTVSKSIGPTCPFAGSCEVSKTQR

RHCPACRLQKCLDAGMRKDMILSAEALALRRAKQAQRRQQTPVQLSKEQEELIRTLLGA  
HTRHMGTMFEQFVQFRPPAHLFIHHQPLPTLAPVLPLVTHFADINTFMVLQVIKFTKDLF  
VFRSLPIEDQISLLKGAAVEICHIVLNTTFCLQTQNFLCGPLRYTIEDGARVSPTVGFQV  
EFLELLFHFHGTLRKLQLQEPEYVLLAAMALFSPDRPGVTQRDEIDQLQEEMALTLQSYI  
KGQQRPRDRFLYAKLLGLLAELRSINEAYGYQIQHIQGLSAMMPLLQEICS

>sp|P49281|NRAM2\_HUMAN Natural resistance-associated macrophage protein 2 OS=Homo sapiens  
GN=SLC11A2 PE=1 SV=2

MVLGPEQKMSDDSVSGDHGESASLGNINPAYSNP SLSQSPGDSEEFATYFNEKISIP EE  
EYSCFSFRKLWAFGTGPGFLMSIAYLDPGNIESDLQSGAVAGFKLLWILLLATLVGLLQR  
LAARLGVVTLHLAEVCHRQYPKVP RVILWLMVELAIIIGSDMQEVIGSAIAINLLSVGRI  
PLWGGVLITITADTFVFLFLDKYGLRKLEAFFGFLITIMALTFGY EYVTVKPSQSQVLKGM  
FVPSCSGCRTPIEQAVGIVGAVIMPHNMYLHSALVKSQRQVNRNNKQEVREANKYFFIES  
CIALFVSFIINV FVVSVFAEAFGKTNEQVVEVCTNTSSPHAGLFPKDNSTLAVDIYKGG  
VVLGCYFGPAALYIWA VGILAAAGQSSTMTGTYSQQFVMEGFLNLKWSRFARVVLTRSAI  
IPTLLVAVFQDVEHLTGMNDFLNVLSLQLPFALIPILTFTSLRPVMSDFANGLGWRIAG  
GILVLIICSINMYFVVVYVRDLGHVALYVVA AVVSVA YLGFV FYLGWQCLIALGMSFLDC  
GHTCHLGLTAQPELYLLNTMDADSLVSR

>sp|Q96F24|NRBF2\_HUMAN Nuclear receptor-binding factor 2 OS=Homo sapiens GN=NRBF2 PE=1  
SV=1

MEVMEGPLNLAHQSRRADRLAAGKYEEAISCHKKAAAYLSEAMKLTQSEQAHL SLELQ  
RDSHMKQLLLIQRWKRAQREERLKAQNTDKDAAHLQTS HKPSAEDAEGQSPLSQKYS  
PSTEKCLPEIQGIFDRDPDTLLYLLQKSEPAEPCIGSKAPKDDKTIIEEQATKIADLKR  
HVEFLVAENERLRKENKQLKAEKARLLKGPIEKELDVDAD FVETSELWSLPPHAETATAS  
STWQKFAANTGKAKDIPINLPPLDFPSP ELPMELS EDILKGFMNN

>sp|Q16612|NREP\_HUMAN Neuronal regeneration-related protein OS=Homo sapiens GN=NREP PE=1  
SV=1

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKND ETNAASLTPLGSSEL RSP  
RISYLHFF

>sp|Q9BQI9|NRIP2\_HUMAN Nuclear receptor-interacting protein 2 OS=Homo sapiens GN=NRIP2  
PE=1 SV=3

MLFIFPLSLPWRPSCWKESCSTGQRQAGRSREDSVT PPPSSPWPTPPAGAMSTKQEARRD  
EGEARTRGQEAQLRDRAHLSQRRRLKQATQFLHKDSADLLPLDSLKRLGTSKDLQPRSVI  
QRRLVEGNPNWLQGEPPRMQDLIHGQESRRKTSRTEIPALLVNCKCQDQLLRVAVDTGTQ  
YNRISAGCLSRLGLEKRVLKASAGDLAPGPPTQVEQLELQLGQETVVCSAQVVD A ESPEF  
CLGLQTLLSLKCCIDLEHGVLRLKAPFSEL PFLPLYQE PGQ

>sp|Q496H8|NRN1L\_HUMAN Neuritin-like protein OS=Homo sapiens GN=NRN1L PE=2 SV=2

MMRCCRRRCCCRQP PHALRPLLLLPLVLLPPLAAAAAGPNRCDTIYQGFAECLIRLGDSM  
GRGGELETICRSWNDFHACASQVLSGCPEEAAAVWESLQGEARQAPRPNNLHTLCGAPVH  
VRERGTS ETLNQETLRATAPALP MAPAPLLAAALALAYLLRPLA

>sp|O14786|NRP1\_HUMAN Neuropilin-1 OS=Homo sapiens GN=NRP1 PE=1 SV=3

MERGLPLLCAVLALVLAPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLIQA  
PDPYQRIMINFNPHFDLED RDKYDYVEVFDGENENGHFRGKFCGKIAPPPVVS SGPFLF  
IKFVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGV I KSPGFPEKYPNSLECTYIVFVP  
KMSEIILEFESFDLEPDSNPPGGMF CRYDRLEIWDGFPDVGPHIGRYCGQKTPGRIRSSS

GILSMVFYTDIAIAKEGFSANYSVLQSSVSEDFKCMEALGMESGEIHSDQITASSQYSTN  
WSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFTAVGTQGAISKETKKKYYVKT  
DIVSSNGEDWITIKENKPVLFQGNNTPTDVVVAVFPKPLITRFVRIKPATWETGISM  
RFEVYGCKITDYPGSGMLGMVSLISDSQITSSNQGDRNWPENIRLVTSSRGWALPPA  
PHSYINEWLQIDLGEEKIVRGIIIQGGKHRENKVFMRKFKIGYSNNGSDWKIMDDSK  
RKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATHGGLGLRMELLGCEVEAPTAG  
PTTPNGNLVDECDDQANCHSGTGDDFQLTGGTTVLATEKPTVIDSTIQSEFPTYGFN  
CEFGWGSHTFCHWEHDNHVQLKWSVLTSKTGP IQDHTGDGNFIYSQADENQKGK  
VARLVSPVVYSQNSAHCMTFWYHMSGSHVGTLRVKLRYQKPEEYDQLVWMAIGHQ  
GDHWKEGRVLLHKS LKLYQVIFEGEIGKGNLGGIAVDDISINNHSQEDCAKPADL  
DKKNPEIKIDETGSTPGYEGEGEDKNISRKPGNVLTDPILITIIAMSALGVLLGAV  
CGVVLACW HNGMSERNLSALENYNFELVDGVKLKKDKLNTQSTYSEA

>sp|O95478|NSA2\_HUMAN Ribosome biogenesis protein NSA2 homolog OS=Homo sapiens GN=NSA2  
PE=1 SV=1

MPQNEYIELHRKRYGYRLDYHEKKRKESREAHERSKKAKKMIGLKAKLYHKQRHAEKI  
QMKKTIKMHEKRNTKQKNDEKTPQGAVPAYLLDREGQSRKVL SNMIKQKRKEKAGKWE  
VPLPKVRAQGETEVLKVIRTGKRKKKAWKRMVTKVCFVGDGFTRKPPKYERFIRPMGL  
RFFKAHVTHPELKATFCLPILGVKKNPSSPLYTTLG VITKGTVIEVNVSELGLVTQGG  
KVIWGYAQVTNNPENDGCINAVLLV

>sp|Q9UNZ2|NSF1C\_HUMAN NSF1 cofactor p47 OS=Homo sapiens GN=NSF1C  
PE=1 SV=2

MAAERQEALREFVAVTGAEEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATP  
SSVSRGTAPSDNRVTSFRDLIHDQDEDEEEEGQRFYAGGSERSGQQIVGPPRKKSPNEL  
VDLDFKGAKEHGAVAVERTKSPGETSKPRPFAGGGYRLGAAPEEESAYVAGEKRQHSSQ  
DVHVVLKLWKS GFSLDNGELRSYQDPSNAQFLESIRRGEVPAELRRLAHGGQVNLDMED  
HRDEDFVKPKGAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSILIDESEPTTNIQI  
RLADGGRLVQKFNHSHRISDIRLFIVDARPA MAATSFILMTTFPNKELADESQTLEANL  
LNAVIVQRLT

>sp|Q9NXE4|NSMA3\_HUMAN Sphingomyelin phosphodiesterase 4 OS=Homo sapiens GN=SMPD4  
PE=1 SV=2

MAFPHLQQPSFLLASLKADSINKPFAQQCQDLVKVIEDFPAKELHTIFPWLVESIFGSLD  
GVLVGWNLRCLQGRVNPVEYSIVMEFLDPGGPMMKL VYKLQAEDYKFDFFVSYLPGPVKA  
SIQECILPDSPLYHNKVQFTPTGGGLNLALNPFEYYIFFFALS LITQKPLPVSLHVRTS  
DCAYFILVDRYLSWFLPTEGSVPPLSSSPGGTSPSPPPRTPAIPFASYGLHHTSLLKRH  
ISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQKMQSPHAKLEVLHYRLSVSS  
ALYSPAQPSLQALHAYQESFTPTEEHVLVVRLLKHLHAFANSLKPEQASPSAHSHATSP  
LEEFKRAAVPRFVQQKLYLFLQHCFGWPLDASFRAVLEMWLSYLQPWRYAPDKQAPGSD  
SQPRCVSEKWAPFVQENLLMYTKL FVGFLNRLRDLVSPKHALMVFRVAKVFAQPNLAE  
MIQKGEQLFLEPELVIPHRQHRLFTAPTFTGSFLSPWPPAVTDASFVKVSHVYSLEGQDC  
KYTPMFGPEAR TLVRLAQLITQAKHTAKSISDQCAESPAGHSFLSWLGFSSMDTNGSYT  
ANDLDEM GQDSVRKTDEYLEKALEYLRQIFRLSEAQLRQFTLALGTTQDENGKKQLPDCI  
VGEDGLILTPLGRYQIINGLRRFEIEYQGDPELQPIRSYEIASLVRTLFR LSSAINHRFA  
GQMAALCSRDDFLGFCRYHLTEPGLASRHLLSPVGRRQVAGHTRGPRLSLRFLGSYRTL  
VSLLLAFFVASLFCVGPLCTLLLT LGYVLYASAMTLLTERGKLHQP



>sp|Q9H0G5|NSRP1\_HUMAN Nuclear speckle splicing regulatory protein 1 OS=Homo sapiens  
GN=NSRP1 PE=1 SV=1

MAIPGRQYGLILPKKTQQLHPVLQKPSVFGNDSDDDDETSVSESLQREAAKKQAMKQTKL  
EIQKALAEDATVYEYDSIYDEMQKKKEENNPKLLLGKDRPKYIHNLLKAVEIRKKEQEK  
RMEKKIQREREMEKGEFDDKEAFVTSAYKKKLQERAAAALEACLDVTKQKDL  
SGFYRHLLNQAVGEEVVKCSFREARSGIKEEKSRGFSNEVSSKNRIPQEKCILQTDVKV  
EENPDADSDFDAKSSADDEIEETRVNCRREKVIETPENDFKHHRSQNHSRSPSEERGHST  
RHHTKGSRTSRGHEKREDQHQQKQSRDQENHYTDRDYRKERDSHRHREASHRDSHWKRHE  
QEDKPRARDQRERSDRVWREKREKYSQREQERDRQQNDQNRPSEKGEKEEKSKAKEEH  
MKVRKERYENNDKYRDREKREVGVSERNQDRKESSPNSRAKDKFLDQERSNKMNRMAK  
DKERNQEKPSNSESLGAKHRLTEEGQEKGEQERPEAVSKFAKRNNEETVMSARDRYL  
ARQMARVNAKTYIEKEDD

>sp|O94818|NOL4\_HUMAN Nucleolar protein 4 OS=Homo sapiens GN=NOL4 PE=1 SV=2

MESERDMYRQFQDWCLRTYGDSGTKTKTVTRKKYERIVQLNGSESSSTDNAKFKFVVKSK  
GFQLGQPDEVVGGGGAKQVLVYPVKTTDGVGVDEKLSLRRVAVVEDFFDIIYSMHVETG  
PNGEQIRKHAGQKRTYKAISESYAFLPREAVTRFLMSCSECQKRMHLNPDGTDHKDNGKP  
PTLVTSMDIDYNMPTMAYMKHMKLQLLNSQQDEDESSIESDEFDMSDSTRMSAVNSDLSS  
NLEERMQSPQNLHGQDDDDAAESFNGNETLGHSSIASGGTHSREMGSNSDGTGLEQD  
EQPLNLSDSPLSAQLTSEYRIDDHNSNGKNKYKNLLISDLKMEREARENGSKSPAHSYSS  
YDSGKNESVDRGAEDLSLNRGDEDEDHEDHDDSEKVNEDTGVEAERLKAFFNMVRLFVD  
ENLDRMVPISKQPKEIKAIIDSCRRQFPEYQERARKRIRTYLKSCRRMKRSGFEMSRPI  
PSHLTSAVAESILASACESESNAAKRMRLERQQDESAPADKQCKPEATQATYSTSAVPG  
SQDVLIVINGNTYSYHSYRGLGGGLLNLNDASSSGPTDLSMKRQLATSSGSSSSSNSRPQ  
LSPTEINAVRQLVAGYRESAAFLRSADLENLILQQN

>sp|P29475|NOS1\_HUMAN Nitric oxide synthase, brain OS=Homo sapiens GN=NOS1 PE=1 SV=2

MEDHMFVGVQIQPNVISVRLFKRVGGLGFLVKERVSKPPVVISDLIRGGAAEQSGLIQA  
GDIILAVNGRPLVDLSYDSALEVLRGIASETHVVLILRGPEGFTTHLETTFTGDGTPKTI  
RVTQPLGPPTKAVDLSHQPAGKEQPLAVDGASGPGNGPQHAYDDGQEAGSLPHANGLAP  
RPPGQDPAKKATRVSLQGRGENNELLKEIEPVL SLLTSGSRGVKGGAPAKAEMKDMGIQV  
DRDLDGKSHKPLPLGVENDRVFNDLWGKGNVPVVLNNPYSEKEQPPTSGKQSPTKNGSPS  
KCPFLKVKNWETEVLDTLHLKSTLETGCTEYICMGSIMHPSQHARRPEDVRTKGQLF  
PLAKEFIDQYSSIKRFGSKAHMERLEEVENKEIDTTSTYQLKDEL IYGAHAWRNASRC  
VGRIQWSKLQVFDARDCTTAHGMFNYICNHVKYATNKGNLRSAITIFPQRTDGKHDFRVW  
NSQLIRYAGYKQPDGSTLGDPANVQFTEICIQQGWKPPRGRFDVLPLLLQANGNDPELFQ  
IPPELVLEVPIRHPKFEWFKDLGLKGYGLPAVSNMLLEIGGLEFSACPFSGWYMGTEIGV  
RDYCDNSRYNILEEVAKKMNLDMRKTSSLWKDQALVEINIAVLVSFQSDKVTIVDHHSAT  
ESFIKHMENEYRCRGGCPADWWVIVPPMSGSIPTVFHQEMLNYRLTPSFYQPDPNWTHV  
WKGNTGPTKRAIGFKKLAEAVKFSAKLMGQAMAKRVKATILYATETGKSQAYAKTLCE  
IFKHAFDAKVMSMEEYDIVHLEHETLVLVVTSTFGNGDPENGEKFGCALMEMRHPNSVQ  
EERKSYKVRFNSVSSYSDSQSSGDGPDLRDNFESAGPLANVRFSVFGLSRAYPHFCAF  
GHAVDTLLEELGGERILKMREGDEL CGQEEAFRTWAKKVFAACDVFCVGDVNI EKANN  
SLISNDRSWKRNKFRFLTFAEAPELTQGLSNVHKRVSAARLLSRQNLQSPKSSRSTIFV  
RLHTNGSQELQYQPGDHLGVFPGNHEDLVNALIERLEDAPPVNQMVKVELLEERNTALGV  
ISNWTDELRLPPCTIFQAFKYLDITTPPTPLQLQQFASLATSEKEKQRLVLVSKGLQEY

EEWKWGKNPTIVEVLEEFPSIQMPATLLLTQLSLLQPRYYSISSSPDMYPDEVHLTVAIV  
SYRTRDGEGPIHHGVCSSWLNRIQADELVPCFVRGAPSFHLPRNPQVPCILVGPGTGIAP  
FRSFWQQRQFDIQHKGMNCPMVLVFGCRQSKIDHIYREETLQAKNKGVFRELYTAYSRE  
PDKPKKYVQDILQEQLAESVYRALKEQGHHIYVCGDVTMAADVLKAIQRIMTQQGKLSAE  
DAGVFISMRDDNRYHEDIFGVTLRTYEVTNRLRSESI AFIEESKKDTDEVFSS

>sp|P48745|NOV\_HUMAN Protein NOV homolog OS=Homo sapiens GN=NOV PE=1 SV=1

MQSVQSTSFCRLKQCLCLTFLLLHLLGQVAATQRCPPQCPGRCPATPPTCAPGVRAVLGDG  
CSCCLVCARQRGESCDLEPCDESSGLYCDRSADPSNQTGICTAVEGDNCVFDGVIYRSG  
EKFQPSCKFQCTCRDGGIGCVPRCQLDVLLPEPNCPAPRKVEVPGECCKEWICGPDEEDS  
LGGLTLAAYRPEATLGVEVSDSSVNCIEQTTEWTACSKSCGMGFSTRVTNRNRQCEMLKQ  
TRLCMVRPCEQEPEQPTDKKGKKCLRTKKSLKAIHLQFKNCTSLHTYKPRFCGVCS DGRC  
CTPHNTKTIQAEFQCSPGQIVKKPVMVIGTCTCHTNCPKNNEAFLQELELKTTTRGKM

>sp|Q96PH1|NOX5\_HUMAN NADPH oxidase 5 OS=Homo sapiens GN=NOX5 PE=1 SV=1

MNTSGDPAQTGPEGCRGTMSAEEDARWLWVTQQFKTIAGEDGEISLQEFKAALHVKESF  
FAERFFALFDSRSGTITLQELQEALTLIHGSPMDKLKFLFQVYDIDVCARQGASAGTE  
WGAGAGPHWASSPLGTGSGSIDPDELRTVLQSCLRESAISLPDEKLDQLTLALFESADAD  
GNGAITFEELRDELQRFPGVMENLTISAHWLTAPAPRPRRRRQLTRAYWHNHRSQLF  
CLATYAGLHVLLFGLAASAHRLGASVMVAKGCGQCLNFDSCFIAVLMRLRCLTWLRATW  
LAQVLPLDQNIQFHQLMGYVVVGLSLVHTVAHTVNFVLQAQAEASPFQFWELLLTTRPGI  
GWVHGSASPTGVALLLLLLLMFICSSSCIRRS GHFEVFWTHLSYLLVWLLLI FHGPNFW  
KWLLVPGILFFLEKAIGLAVSRMAAVCIMEVNLLPSKVTHLLIKRPPFFHYRPGDYLYLN  
IPTIARYEWHPF TISSAPEQKDTIWLHIRSQGQWTNRLYESFKASDPLGRGSKRLSRSVT  
MRKSQRSSKGSEILLEKHKFCNIKCYIDGPYGTPTRRIFASEHAVLIGAGIGITPFASIL  
QSIMYRHQKRKHTCPSCQHSWIEGVQDNMKLHKVDFIWINRDQRSFEWFVSLLT KLEMDQ  
AEEAQYGRFLELHMYMTSALGKNDMKAIGLQMALDLLANKEKKSITGLQTRTQPGRPDW  
SKVFQKVAAEKKGKVQVFFCGSPALAKVLKGHCEKFGFRFFQENF

>sp|Q99733|NP1L4\_HUMAN Nucleosome assembly protein 1-like 4 OS=Homo sapiens GN=NAP1L4  
PE=1 SV=1

MADHSFSDGVPDSVEAAKNASNTEKLTQVMQNPRVLAALQERLDNVPHTPSSYIETLP  
KAVKRRINALKQLQVCAHIEAKFYEEVHDLERKYAALYQPLFDKRREFITGDVEPTDAE  
SEWHSNEEEEEKLAGDMKSKVVVTEKAAATAEEPDPKGIPEFWFTIFRNVDMLSELVQEY  
DEPILKHLQDIKVKFSDPGQPMFVLEFHFEPNDYFTNSVLTKTYKMKSEPDKADPFSFE  
GPEIVDCDGCTIDWKKGKNVTVKTIKKKQKHKGRTVRTITKQVPNESFFNFFNPLKASG  
DGESLDEDESEFTLASDFEIGHFFRERIVPRAVLYFTGEAIEDDDNFEEGEEGEEEELEGD  
EEGEDEDDAEINPKV

>sp|A6NFF2|NP1L6\_HUMAN Putative nucleosome assembly protein 1-like 6 OS=Homo sapiens  
GN=NAP1L6 PE=5 SV=1

MMEGLGEHSTAGEMGPLLGAVAATASPQSLMEYSSDAFIESLPLVVKYRVYTLKKLQAK  
CAVLEAKYLREFHSVERKFATIIYGPLLEKRRQITNALYEPTKEECER

>sp|P61582|NP7\_HUMAN Endogenous retrovirus group K member 7 Np9 protein OS=Homo sapiens  
GN=ERVK-7 PE=3 SV=1

MNPLEMQRKGP PRRWCLQVYPTAPKRQRPSRTGHDDGGFVEKKRGKCGEKQERSDCYCV  
CVERSRRHGRHLHFVMC

>sp|Q9BS92|NPS3B\_HUMAN Protein NipSnap homolog 3B OS=Homo sapiens GN=NIPSNAP3B PE=2 SV=1

MLVLRSGLTALASRTLAPQVCSSFATGPRQYDGTFFYEFRTYYLKPSNMNAFMENLKKN  
HLRTSYSELVGFWSVEFGGRTNKVFHIWKYDNFAHRAEVRKALANCKEWQEQSIIPNLAR  
IDKQETEITYLIPWSKLEKPPKEGVYELAVFQMKGPPALWGDAFERAINAHVNLGYTKV  
VGVFHTHEYGELNRVHVLWWNESADSRAAGRHKSHEDPRVVAAVRESVNYLVSQQNMLLIP  
ASFSPK

>sp|000624|NPT3\_HUMAN Sodium-dependent phosphate transport protein 3 OS=Homo sapiens  
GN=SLC17A2 PE=2 SV=2

MDGKPATRKGPDFCSLRYGLALIMHFSNFTMITQRVSLSIATIAMVNTTQQGLSNASTE  
GPVADAFNNSSISIKEFDTKASVYQWSPETQGIIFSSINYGIILTLIPSGYLAGIFGAKK  
MLGAGLLISSLLTLFTPLAADFGVILVIMVRTVQGMAGMAWTGQFTIWAQWAPPLERSK  
LTTIAGSGSAFGSFIILCVGGLISQALSWPFIIFYIFGSTGCVCCLLWFTVIYDDPMHHP  
ISVREKEHILSSLAQQPSSPGRAVPIKAMVTCLPLWAIIFLGFFSHFWLCTIILTILTYLPT  
STLLHVNIRDSGVLSSLPFIAAASCTILGGQLADFLSRNLLRLITVRKLFSSLGILLPS  
ICAVLPFVASSYVITIILLILIPGTSNLCDSGFIINTLDIAPRYASFLMGISRGFLIA  
GIISSTATGFLISQVGPVY

>sp|Q9Y639|NPTN\_HUMAN Neuroplastin OS=Homo sapiens GN=NPTN PE=1 SV=2

MSGSSLPSALALLLVSGSLLPGPGAAQNAGFVKSPMSETKLTGDAFELYCDVVGSP  
ETP  
EIQWWYAEVNRAESFRQLWDGARKRRVTNTAYGSNGVSVLRITRLTLEDSGTIECRASN  
DPKRNDLRQNPSITWIRAQATISVLQKPRIVTSEEVIIRDSPVLPVTLQCNTSSSHTLT  
YSYWTNGVELSATRKNASNMEYRINKPRAEDSGEYHCYHFVSAPKANATIEVKAAPDI  
TGHKRSENKNEGQDATMYCKSVGYPHPDWIWRKKENGMPMDIVNTSGRFFIINKENYTEL  
NIVNLQITEDPGEYECNATNAIGSASVTVLRVRSHLAPLWFLGILAEIILVVIIVVY  
EKRRKPDEVPDDDEPAGPMKTNSTNNHKDKNLRQRNTN

>sp|Q9HCQ7|NPVF\_HUMAN Pro-FMRFamide-related neuropeptide VF OS=Homo sapiens GN=NPVF PE=1  
SV=2

MEIISKLFIILLTATSSLLTSNIFCADELVISNLHOKENYDKYSEPRGYPKGERSLNFE  
ELKDWGPKNVIKMSTPAVNKMPHSFANLPLRFGRNVQEERSAGATANPLRSGRNMEVSL  
VRRVNPQLPQRFGRTTAKSVCRMLSDLCQGSMSHSPCANDLFYSMTCQHQEIQNPDKQKSR  
RLLFKKIDDAELKQEK

>sp|Q15761|NPY5R\_HUMAN Neuropeptide Y receptor type 5 OS=Homo sapiens GN=NPY5R PE=2 SV=2

MDLELDEYYNKTLATENNTAATRNDFPVWDDYKSSVDDLQYFLIGLYTFVSLGFMGNL  
LILMALMKRNQKTTVNFLIGNLAFSDILVVLFCSPFTLTSVLLDQWMFGKVMCHIMPFL  
QCVSVLVSTLILISIAIVRYHMIKHPISNNLTANHGYFLIATVWTLGFAICSPLPVFHS  
LVELQETFGSALLSSRYLCVESWPSDSYRIAFTISLLVQYILPLVCLTVSHTSVCRSISC  
GLSNKENRLEENEMINLTLHPSKKSGPQVKLSGSHKWSYSFIKKHRRRYSKKTACVLPAP  
ERPSQENHSRILPENFGSVRSQLSSSSKFIPGVPTCFEIKPEENS DVHELVRKRSVTRIK  
KRSRSVFYRLTILILVFAVSWMPLHLFHVVTDFNDNLISNRHFKLVYCICHLLGMMSCCL  
NPILYGFLNNGIKADLVSLIHCLHM

>sp|P15559|NQ01\_HUMAN NAD(P)H dehydrogenase [quinone] 1 OS=Homo sapiens GN=NQ01 PE=1 SV=1

MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEVVESDLYAMNFPNPIISRKIDITGKL  
KDPANFQYPAESVLAYKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILKGWFERV  
FIGEFAYTYAAMYDKGPFRRSKAVLSITTGGSGSMYSLQGIHGMNVILWPIQSGILHFC  
GFQVLEPQLTYSIGHTPADARIQILEGWKKRLNIWDETPLYFAPSSFLDLNFQAGFLMK  
KEVQDEEKNKKFGLSVGHHLGKSIPTDNQIKARK

>sp|Q14995|NR1D2\_HUMAN Nuclear receptor subfamily 1 group D member 2 OS=Homo sapiens  
GN=NR1D2 PE=1 SV=3

MEVNAGGVIAYISSSSASSPASCHSEGENSFQSSSSVPSSPSSSDTNGNPKNGDL  
ANIEGILKNDRIDCSMKTSKSSAPGMTKSHSGVTKFSGMVLLCKVCGDVASGFHYGVHAC  
EGCKGFFRRSIQQNIQYKKCLKNENCSIMRMNRNRCQQCRFKKCLSVGMSRDAVRFGRI  
KREKQRMLIEMQSAMKTMNSQFSGHLQNDTLVEHHEQTALPAQEQLRKPQLEQENIKS  
SSPPSSDFAKEEVIGMVTRAHKDTFMYNQEQQENSAESMQPQRGERIPKNMEQYNLNHDH  
CGNGLSSHFPCESEQHLNGQFKGRNIMHYPNGHAICIANGHCMNFSNAYTQRVCDRVPI  
DGFSQENENKNSYLCNTGGRMHLVCPLSKSPYVDPHKSGHEIWEEFSMSFTPAVKEVVEFA  
KRIPGFRDLSQHDQVNLLKAGTFEVL MVRFASLFDKERTVTFLSGKKYSVDDLHSMGAG  
DLLNSMFEFSEKLNALQLSDEMSLFTAVVLVSADRSGIENVNSVEALQETLIRALRTL  
I MKNHPNEASIFTKLLKLPLDLRSLNNMHSEELLAFAKVHP

>sp|P55055|NR1H2\_HUMAN Oxysterols receptor LXR-beta OS=Homo sapiens GN=NR1H2 PE=1 SV=2

MSSPTTSSLDTPLPNGPPQPGAPSSSPTVKEEGPEPWPGPDVPGTDEASSACSTDW  
VIPDPEEEPERKRRKGPAPKMLGHELRCVCGDKASGFHYNVLSCEGCKGFFRRSVVRGA  
RRYACRGGGTCQMDAFMRRKCQCRLRKCKEAGMREQCVLSEEQIRKKKIRKQQQESQSQ  
SQSPVGPQGSSSSASGPGASPGGSEAGSQGSGEQVQLTAAQELMIQQLVAAQLQCNKR  
SFSDQPKVTPWPLGADPQSRDARQRFHFTELAIISVQEIVDFAKQVPGFLQLGREDQI  
ALLKASTIEIMLLETARRYNHETECITFLKDFTYSKDDFHRAGLQVEFINPIFEFSRAMR  
RLGLDDAEYALLIAINIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRM  
LMKLVSLRTLSSVHSEQVFALRLQDKKLPLLLSEIWDVHE

>sp|Q9Y5X4|NR2E3\_HUMAN Photoreceptor-specific nuclear receptor OS=Homo sapiens GN=NR2E3  
PE=1 SV=1

METRPTALMSSTVAAAAAPAAGAASRKESPGRWGLGEDPTGVSPSLQCRVCGDSSSGKHYG  
IYACNGCSGFFKRSVRRRLIYRCQVGAGMCPVDKAHRNQCQACRLKKCLQAGMNQDAVQN  
ERQPRSTAQVHLD MESNTESRPESLVAPPAPAGRSRPGPTPMSAARALGHHFMASLITA  
ETCAKLEPEDADENIDVTSNDPEFPSSPYSSSSPCGLDSIHETSARLLFMAVKWAKNLPV  
FSSLPFRDQVILLEEAWSEFLFGAIQWSLPLDSCPLLAPPEASAAGGAQGRLTLASMET  
RVLQETISRFRALAVDPTFACMKALVLFKBPETRGLKDPEHVEALQDQSQVMLSQHSKAH  
HPSQPVRFGKLLLLLPSLRFITAERIELLFFRKTI GNTPMKLLCDMFKN

>sp|P43354|NR4A2\_HUMAN Nuclear receptor subfamily 4 group A member 2 OS=Homo sapiens  
GN=NR4A2 PE=1 SV=1

MPCVQAQYGSSPQGASPASQSYSHSSGEYSSDFLTPEFVKFSMDLTNTEITATTSLSF  
STFMDNYSTGYDVKPPCLYQMPLSGQSSIKVEDIQMHNYQQHSHLPPQSEEMPHSGSV  
YYKPSSPPTPTTPGFQVQHSPMWDDPGSLHNFHQNYVATTHMIEQRKTPVSRLSLFSFKQ  
SPPGTPVSSCQMRFDGPLHVPMPNPEPAGSHHVVDGQTFAVPNPIRKPASMGFPGLQIGHA  
SQLDQTQVSPSPSRGSPSNEGLCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCL  
ANKNCPVDKRRRNRCQYCRFQKCLAVGMVKEVVRTSLKGRRGRLLPSKPKSPQEPSPPSP  
PVSLISALVRAHVDSNPAMTSLDYSRFQANPDYQMSGDDTQHIQQFYDLLTGSMEIIRGW  
AEKIPGFADLPKADQLLFESAFLELFVLRLAYRSNPVEGKLIFCNGVVLRHLQCVRGFG  
EWIDSIVEFSSNLQNMNIDISAFSCIAALAMVTERHGLKEPKRVEELQNKIVNCLKDHVT  
FNNGGLNRPNYLSKLLGKLPELRTLCTQGLQRIFYLKLEDLVPPPAIIDKLFLDTLPF

>sp|P49279|NRAM1\_HUMAN Natural resistance-associated macrophage protein 1 OS=Homo sapiens  
GN=SLC11A1 PE=2 SV=1

MTGDKGPQRLSGSSYGSISSPTSPTSPGPQQAPPRETYLSEKIPIPDTKPGTFSRLKLWA  
FTGPGFLMSIAFLDPGNIESDLQAGAVAGFKLLWVLLWATVLGLLCQRLAARLGVVTGKD  
LGEVCHLYYPKVPRTVLWLTIELAIVGSDMQEVIGTAIAFNLLSAGRIPLWGGVLITIVD  
TFFFLFLDNYGLRKLEAFFGLLITIMALTFGYEYVVARPEQGALLRGLFLPSCPGCGHPE  
LLQAVGIVGAIIMPHNIYLHSALVKSREIDRARRADIREANMYFLIEATIALSVSFIINL  
FVMAVFGQAFYQKTNQAAFNICANSSLDHYAKIFPMNNATVAVDIYQGGVILGCLFGPAA  
LYIWAIGLLAAGQSSMTGTAGQFVMEGFLRLRWSRFARVLLTRSCAILPTVLVAVFRD  
LRDLSGLNDLLNLQSLLLPFVLPILTFTSMPTLMQEFANGLLNKVVTSSIMVLCAIN  
LYFVVSYPSPHPAYFGLAALLAAAYLGLSTYLVWTCCLAHGATFLAHSSHHHFLYGLL  
EEDQKGETSG

>sp|Q9NSY0|NRBP2\_HUMAN Nuclear receptor-binding protein 2 OS=Homo sapiens GN=NRBP2 PE=1 SV=2

MAAPEPAPRRAREREREREDESEDESDILEESPCGRWQKRREQVNQGNMPGLQSTFLAMD  
TEEGVEVWVWNLHFQDRKAFAAHEEKIQTVFEQLVLVDHPNIVKLHKYWLDTSEACARVI  
FITEYVSSGSLKQFLKKTKNHKAMNARAWKRWCTQILSALSFLHACSPPIIHGNLTSDT  
IFIQHNGLIKIGSVWHRIFSNALPDDLRSPIRAEREELRNLFHFPPEYGEVADGTAVDIF  
SFGMCALAMAVLEIQTNGDTRVTEETIARARHSLSDPNMREFILCCLARDPARRPSAHS  
LFHRVLFVHSLKLLAAHCFIQHQYLMPENVEEKTAMDLHAVLAELPRPRRPPLQWRY  
SEVSFMELDKFLEDVRNGIYPLMNFAATRPLGLPRVLAPPPEEVQKAKTPTPEPFDSETR  
KVIQMQCNLERSEDKARWHLTLLLVLEDRLHRQLTYDLLPTDSAQDLASELVHYGFLHED  
DRMKLAAFLESTFLKYRGTA

>sp|O14511|NRG2\_HUMAN Pro-neuregulin-2, membrane-bound isoform OS=Homo sapiens GN=NRG2 PE=1 SV=1

MRQVCCSALPPPPELEKGRCSSYSDSSSSSSERSSSSSSSSSESGSSSRSSSNSSISRPA  
APPEPRPQQPQPRSPAARRAAARSRAAAAGGMRRDPAPGFSMLLFGVSLACYSPSLKSV  
QDQAYKAPVVVEGKVQGLVPAGSSSNSTREPPASGRVALVKVLDKWPLRSGGLQREQVI  
SVGSCVPLERNQRYIFFLEPTEQPLVFKTAFAPLDTNGKNLKKEVGKILCTDCATRPKLK  
KMKSQTGQVGEKQSLKCEAAAGNPQPSYRWFKDGKELNRSRDIRIKYNGRKN SRLQFNK  
VKVEDAGEYVCEAENILGKDTVGRGLYVNSVSTLSSWSGHARKCNETAKSYCVNGVCY  
YIEGINQLSCKCPNGFFGQRCLEKLPLRLYMPDPKQKAEELYQKRVLTITGICVALLVVG  
IVCVVAYCKTKKQKQMHNHLRQNMCPAHQNRSLANGPSHPRLDPEEIQMADYISKNVPA  
TDHVI RRETETTFSGSHSCSPSHHCSTATPTSSHRHESHTWSLERSESLTSDSQSGIMLS  
SVGTSKCN SPACVEARARRAAAYNLEERRRATAPPYHDSVDSL RDSPHSERYVSALTTPA  
RLSPVDFHYSLATQVPTFEITSPNSAHAVSLPPAAPISYRLAEQQPLL RHPAPPGP GPGP  
GPGPGPADMQRSYDSYYP AAGPGPRRGTCALGGS LGLPASPFRIPEDEYETTQECA  
PPPPRPRARGASRRTSAGPRRWRRSRLNGLAAQRARAARDSLSLSSGSGGSASASDDD  
ADDADGALAAESTPFLGLRGAHDALRSDSPPLCPAADSRTYYSLSHSTRASSRHSRGPP  
PRAKQDSAPL

>sp|Q99748|NRTN\_HUMAN Neurturin OS=Homo sapiens GN=NRTN PE=1 SV=1

MQRWKAALASVLCSSVLSIWMCREGLLLSHRLGPALVPLHRLPRTLDARIARLAQYRAL  
LQGAPDAMELRELTPWAGRPPGPRRRAGPRRRRARARLGARPCGLRELEV RVSELGLGYA  
SDETVLFRYCAGACEAAARVYDLGLRRLRQRRRLRRERVRAPCCRPTAYEDEVSF LDAH  
SRYHTVHEL SARECACV

>sp|P58401|NRX2B\_HUMAN Neurexin-2-beta OS=Homo sapiens GN=NRXN2 PE=1 SV=1

MPPGGSGPGGCPRRPPALAGPLPPPPPPPPPLPLPLLLLLLLGAAEGARVSSSLSTT  
HHVHHFHSKHGTVPIAINRMPFLTRGGHAGTTYIFGKGGALITYTWPNDRPSTRMDRLA  
VGFSTHQRSAVLVRVDSASGLGDYLQLHIDQGTVGVIENVGTDDITIDEPNAIVSDGKYH  
VVRFTRSGGNATLQVDSWPVNERYPAGNFDNERLAIARQRIPLYRLGRVVDEWLLDKGRQL  
TIFNSQAAIKIGGRDQGRPFQGGVSGLYYNGLKVLALAAESDPNVRTEGHLRLVGEGPSV  
LLSAETTATLLADMATTIMETTTMATTTTRGRSPTLRDSTTQNTDDLLVASAECPSD  
DELEECEPSTGGELILPIITEDSLDPPPVATRSPFVPPPPTFYPLTGVGATQDTLPPP  
AARRPPSGGPCAERDDSDCEEPIEASGFASGEVFDSSLPTDDEDFYTTFPLVTDRTTL  
LSRPKPAPRPNLRTDGATGAPGVLFAPSAPAPNLPAGKMNHRDPLQPLENPPLGPGAPT  
SFEPRRPPPLRPGVTSAPGFPHLPTANPTGPGERGPPGAVEVIRESSSTGMVVGIVAAA  
ALCILILLYAMYKYRNRDEGSYQVDQSRNYISNSAQSNQAVVKEKAPAPKTPSKAKKNK  
DKEYYY

>sp|Q9Y4C0|NRX3A\_HUMAN Neurexin-3 OS=Homo sapiens GN=NRXN3 PE=1 SV=4

MSSTLHSVFFTLKVSILLGSLLGLCLGLEFMGLPNQWARYLRWDASTRDLSFQFKNVS  
TGLLLYLDDGGVCDFLCLSLVDGRVQLRFSMDCAETAVALSNKQVNDSSWHFLMVSRDLR  
TVLMLDGEGQSGELQQRPYMDVVSDFLGGVPTDIRPSALTLDGVQAMPGFKGLILD  
YGNSEPRLLGSRGVQMDAEGPCGERPCENGICFLLDGHPTCDCSTTGYYGKLCSE  
DVSQDPGLSHLMMSEQAREENVATFRGSEYLCYDLSQNPISQSSSEITLSFKTWQRNGLILHTG  
KSADYVNLALKDGAVALVINLGSFAFEAIVEPVNGKFNDNAWHDVKVTRNLRQVTISVDG  
ILTTTGYTQEDYTMLGSDDFFVYGGSPSTADLPGPSVSNFMGCLKEVYKNNDIRLELS  
RLARIADTKMKIYGEVVFKECENVATLDPINFETPEAYISLPKWNTKRMGSI  
SFDRTTEP NGLILFTHGKPQERKDARSQKNTKVDFFAVELLDGNLYLLLDMSGTIKVKATQKKANDG  
EWYHVDIQRDGRSGTISVNSRRTPFTASGESEILDLEGDMYLGGLPENRAGLILPT  
ELWTAMLNYGYVGCIRDLFIDGRSKNIRQLAEMQNAAGVKSSCSRMSAKQCDSYPC  
KNNAVCKD GWNRFICDCTGTGYWGRTCEREASILSYDGSMYMKIIMPVMHTEAEDVS  
FRFMSQRAYG LLVATTSRDSADTLRLELDGGRVKLMVNLDCIRINCNSKGPETLYAGQ  
KLNDNEWHTVR VVRGKSLKLTVDDDAEGTMVGDHTRLEFHNIE  
TGIMTEKRYISVVPSSFIGHLQSLMF NGLLYIDLCKNGDIDYCELKARFGLRNI  
IADPVTFKTKSSYLSLATLQAYTSMHLFFQFK TTSPDGFILFNSGDGNDFIAVELV  
KGYIHVFDLGNGPNVIKGNDRPLNDNQWHNVIT RDNSNTHSLKVDTKVVTQVINGAK  
NLDLKGDLYMAGLAQGMYSNLPKLVASRDGFQGC  
LASVDLNGRLPDLINDALHRSQQIERGCEGPSTTCQEDSCANQGVCMQWEGFTCD  
CSMTSYSGNQCDNP  
GATYIFGKSGGLILYTPANDRPSTRSDRLAVGFSTTVKDGILVRIDSAPGL  
GDFLQLHIEQKGIGVFNIGTVDISIKEERTPVNDGKYHVVRFTRNGGNATLQVDNWPVN  
EHYPTGRQLTIFNTQAQIAIGGKDKGRLFQGGQLSGLYYDGLKVLNMAAENPNIKINGSV  
RLVGEVPSILGTTQTTSMPPEMSTTVMETTTMATTTTRKNRSTASIQPTSDDL  
VSSAECSSDDEDFVECEPSTTGGELVIPLLVEDPLATPPIATRAPSITLPPTFRPL  
LTIIETTKDSLMTSEAGLPCLSDQSGDGCDDGLVISGYGSETFDSNLPPTDDEDFYTT  
FSLVTDKSLSTSIFEGGYKAHAPKWESKDFRPKNVSETSRTTTTSLPELIRFTASSSSGMV  
PKLPAGKMNNRDLKPQPDIVLLPLPTAYELDSTKLKSP  
LITSPMFRNVPTANPTEPGIRRVPGASEV IRESSSTGMVVGIVAAAA  
LCILILLYAMYKYRNRDEGSYQVDETRNYISNSAQSNGLTLM  
KEKQSSKSGHKKQKNKDREYYY

>sp|Q9BZ95|NSD3\_HUMAN Histone-lysine N-methyltransferase NSD3 OS=Homo sapiens GN=WHSC1L1  
PE=1 SV=1

MDFSFSFMQGIMGNTIQPPQLIDSANIRQEDAFDNNSDIAEDGGQTPYEATLQQGFQYP

ATTEDLPPLTNGYPSSISVYETQTKYQSYNQYPNGSANGFGAVRNFSPDYHSEIPNTR  
PHEILEKPSPPQPPPPSPVQTVIPKKTGSPEIKLKITKTIQNGRELFESSLCGDLLNEV  
QASEHTKSKHESRKEKRKSNKHDSSRSEERKSHKIPKLEPEEQNRPNERNVDTVSEKPRE  
EPVLKEEAPVQPIILSSVPTTEVSTGVKFQVGDVWVSKVGTYPWWPCMVSSDPQLEVHTKI  
NTRGAREYHVQFFSNQPERAWVHEKRVREYKGHKQYEELLAETKQASNHSEKQKIRKPR  
PQRERAQWDIGIAHAEKALKMTREERIEQYTFIYIDKQPEEALSQAKKSVASKTEVKKTR  
RPRSVLNTQPEQTNAGEVASSLSSTEIRRHSQRRHTSAEEEEPPPVKIAWKTAARKSLP  
ASITMHKGSDDLQKCNMSPVVKIEQVFALQATGDGKFIDQFVYSTKGIGNKTEISVRGQ  
DRLIISTPNQRNEKPTQSVSSPEATSGSTGSVEKKQRRSIRTRSESEKSTEVVPPKKIK  
KEQVETVPQATVKTGLQKGASEISDSCKPLKKRSRASTDVEMTSSAYRDTSDSDSRGLSD  
LQVGFQKQVDSPTSATADADVSDVQSMSSLSRRGTGMSKKDTCQICESGDSLIPCEGE  
CCKHFHLECLGLASLPDSKFIEMECKTGQHPCFCKVSGKDVKRCVSGACGKFYHEACVR  
KFPTAIFESKGFRCQHCSSACSMKDIHKASKGRMMRCLRCPVAYHSGDACIAAGSMLV  
SSYILICSNHKSRSNSSAVNVGFCFVCARGLIVQDHSDPMFSSYAYKSHYLLNESNRAE  
LMKLPMPSSSASKKKCEKGGRLCCESCPASFHPECLSIEMEGCWNCNDCKAGKKLHY  
KQIVWVKLGNYRWWPAEICNPRSVPLNIQGLKHDLDGDFPVFFFGSHDYVWHQGRVFPYV  
EGDKSFAEGQTSINKTFKALEEAAKRFQELKAQRESKEALEIEKNSRPPPYKHIKANK  
VIGKVQIQVADLSEIPRCNCKPADENPCGLESECLNMLQYEHCPQVCPAGDRCQNQCFT  
KRLYPDAEIIKTERRGWGLRTRKRSIKKGEFVNEYVGELIDEEECRLRIKRAHENSVTNFI  
MLTVTKDRIIDAGPKGNYSRFMNHSCNPNCETQKWTVNGDVRVGLFALCDIPAGMELTFN  
YNLDCLGNRTECHCGADNCSGFLGVRPKSACASTNEEKAKNAKLKQRRRIKTEPKQMH  
EDYCFQCGDGGELVMCDKKDCPKAYHLLCLNLTQPPYGKWECPWHQCDECSAAVSFCEF  
CPHSFCKDHEKGALVPSALEGRLLCCSEHDPMAVPSPEYWSKIKCKWESQDHGEEVKE

>sp|Q9NXX6|NSE4A\_HUMAN Non-structural maintenance of chromosomes element 4 homolog A  
OS=Homo sapiens GN=NSMCE4A PE=1 SV=2

MSGDSSGRGPEGRGRGRDPRDRTRSRSRSPSPRSRRGSARERREAPERPSLEDTEP  
SDSGDEMMDPASLEAEADQGLCRQIRHQYRALINSVQQNREDILNAGDKLTEVLEEANTL  
FNEVSRAREAVLDAHFLVLASDLGKEKAKQLRSDLSSFDMLRYVETLLTHMGVNPLEAEE  
LIRDEDSPDFEFIVYDSWKITGRTAENTFNKTHTFHLLGSIYGECVPKPRVDRPRKVP  
VIQEERAMPAQLRRMEESHQEATEKEVERIILGLLQTYFREDPDTPMSFFDFVVDPHSFPR  
TVENIFHVSFIIRDGFARIRLDQDRLPVIEPVSINEENEGFEHNTQVRNQGIALSYPDW  
EEIVKTFEISEPVITPSQRQKPSA

>sp|P42857|NSG1\_HUMAN Neuron-specific protein family member 1 OS=Homo sapiens GN=NSG1  
PE=1 SV=1

MVKLGNNFAEKGTKQPLLEDGFDTIPLMTPLDVNQLQFPPDPKVVVVKTKTEYEPDRKKGK  
ARPPQIAEFTVSITEGVTERFKVSVLVLFALAFLTCVVFLVVKYKYDRACPDGFLVKN  
TQCIPEGLESYYAEQDSSAREKFYTVINHYNLAKQSITRSVSPWMSVLSEEKLEQETEA  
AEKSA

>sp|Q9NY59|NSMA2\_HUMAN Sphingomyelin phosphodiesterase 3 OS=Homo sapiens GN=SMPD3 PE=1  
SV=1

MVLYTTFPNSCLSALHCVSWALIFPCYWLVDRLAASFIPPTYEKQRADDPCCQLLCT  
ALFTPIYLALLVASLPFAFLGLFWSPQLSARRPYIYSRLEDKGLAGGAALLSEWKGTP  
GKSFCFATANVCLLPDSLARVNNLFNTQARAKEIGQIRNGAARPQIKIYIDSPTNTSIS  
AASFSSLVSPQGGDGVARAVPGSIKRTASVEYKGDGGRHPGDEAANGPASGDPVDSSSPE

DACIVRIGGEEGRPPEADDPVPGGQARNGAGGGPRGQTPNHNQQDGDGSLGSPSASRE  
SLVKGRAGPDTSASGEPGANSKLLYKASVVKAAAARRRRHPDEAFDHEVSAFFPANLDFL  
CLQEVFDKRAATKLKEQLHGYFEYILYDVGYYGCGCCSFKCLNSGLLFASRYPIMDVAY  
HCYPNKCND DALASKGALFLKVQVGSTPQDQRIVGYIACHTLHAPQEDSAIRCGQLDLLQ  
DWLADFRKSTSSSSAANPEELVAFDVVCGDFNFDNCSSDDKLEQQHSLFTHYRDPCRLGP  
GEEKPWAIGTLDDTNGLYDEDVCTPDNLQKVLSESEGRREYLAFPTSKSSGQKGRKELLK  
GNRRIDYMLHAEGLCPDWKAEVEEFSFITQLSGLTDHLPVAMRLMVSSGEEEA

>sp|O60906|NSMA\_HUMAN Sphingomyelin phosphodiesterase 2 OS=Homo sapiens GN=SMPD2 PE=1  
SV=2

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QKLSPTYPAHHFRSGIIGSGLCVFSKHPIQELTQHIYTLNGYPYMIHHGDWFSKGAVGL  
LVHLHSGMVLNAYVTHLHAEYNRQKDIYLAHRVAQAWELAQFIHHTSKKADVLLCGDLN  
MHPEDLGCCLLKEWTGLHDAYLETRDFKGSEEGNTMVPKNCYVSQQELKPFPGVRIDYV  
LYKAVSGFYISCKSFETTTGDFPHRGTPSLDHEALMATLVRHSPQNPSTHGAERS  
PLMCVLKEAWTELGLGMAQARWWATFASYVIGLGLLLLALLCVLAAGGGAGEAAILLWTP  
SVGLVLWAGAFYLFHVQEVNGLYRAQELQHVLGRAREAQDLGPEPQPALLGQQEGDRT  
KEQ

>sp|Q6X4W1|NSMF\_HUMAN NMDA receptor synaptonuclear signaling and neuronal migration  
factor OS=Homo sapiens GN=NSMF PE=1 SV=1

MGAASRRRALRSEAMSSVAAKVRARAFAGEYLSQSHPENRNGADHLLADAYS GHDSPE  
MQPAPQNKRRLSLVNGCYEGSLSEEPSIRKPAGEGPQPRVYTISGEPALLPSPEAEATE  
LAVVKGRRQRHPHHHSQPLRASPGGSREDVSRPCQSWAGSRQGSKECPGCAQLAPGTPR  
AFGLDQPPLPETSGRKKLERMYSVDRVSDDIPIRTWFPKENLFSFQTATTTMQAISVFR  
GYAERKRRKRENDASASVIQRNFRKHLRMVGSRRVKAQTFERRERSFSRSWSDPTPMKAD  
TSHDSRDSSDLQSSHCTLDEAFEDLDWDEKLEAVACDTEGFVPPKVMLISSKVPKAEY  
IPTIIRDDPSIIPILYDHEHATFEDILEEIERKLVNHYHKGAKIWKMLIFCQGGPGHLYL  
LKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNV IHMGCYILGNPNGEKLFQNLRT  
LMTPYRVTFESPLELSAQGKQMIETYDFRLYRLWKSQRHSLKLLDFDDVL

>sp|Q7Z3S9|NT2NL\_HUMAN Notch homolog 2 N-terminal-like protein OS=Homo sapiens  
GN=NOTCH2NL PE=1 SV=1

MCVTYHNGTG YCKCEGFLGEYCQHRDPCEKNRCQNGGTCVAQAMLGKATCRCASGFTGE  
DCQYSTSHPCFVSRPCLNGGTCHMLSRDTYECTCQVGFTGKECQWTDACLSHPCANGSTC  
TTVANQFSCCKLTGFTGQKCETDVNECDIPGHCQHGGTCLNLPGSYQCCLQGFTGQYCD  
SLYVPCAPSPCVNGGTCTGDFTFECNCLPETVRRGTTELWERDREVWNGKEHDEN

>sp|Q5TFE4|NT5D1\_HUMAN 5'-nucleotidase domain-containing protein 1 OS=Homo sapiens  
GN=NT5DC1 PE=1 SV=1

MAQHFSLAACDVVGFDLHTLCRYNLPESAPLIYNSFAQLVKEKGYDKELLNVTPEDWD  
FCKGLALDLEDGNFLKLANNGTVLRASHGTKMMTPEVLAEAYGKKEWKHFLSDTGMACR  
SGKYYFYDNYFDLPGALLCARVVDYLTCLNNGQKTFDFWKDIVAAIQHNYKMSAFKENC  
IYFPEIKRDPGRYLHSCPESVKKWLRQLKNAGKILLITSSHSDYCRLLCEYILGNDFTD  
LFDIVITNALKPGFFSHLPSQRPFRTLENDEEQEALPSLDKPGWYSQGNVHLYELLKKM  
TGKPEPKVVYFGDSMHSDIFPARHYSNWETVLIIEELRGDEGTRSQRPEESEPLEKKGY  
EGPKAKPLNTSSKKWGSFFIDSVLGLENTEDSLVYTWCKRISTYSTIAIPSEIAI AELP  
LDYKFTRFSSSNSKTAGYYPNPPLVLSSETLISK



>sp|Q86YG4|NT5D4\_HUMAN 5'-nucleotidase domain-containing protein 4 OS=Homo sapiens  
GN=NT5DC4 PE=2 SV=2

MPAWIFVNRSLALGKIRCFGDMDYTLAAYKSPAYEALTFELLERLVCIGYPHEILRYT  
YDPTFPTRRLVFDELYGNLLKVDAHGNVLLGAYGFTFLSEAEIWSFYPSKFIQRDDLQCF  
YILNMLFNLPEYTYLAQLVDFFSGCSRYTNCDTGYQHGNLFMSFRSLFQDVTAMNNIHQ  
SGCLKKTLEDLEKYVKKDPRLPILLGKMKEVGKVFLATNSSYNTNAIMTYLFSISEAEA  
SGRPWRSYFDLIVVDTQKPHFFAEGLVLRQVNTDSGKLHVGSTGPHQHCAVYSGGSSDM  
VCELLGVRGMDILYIGDHIFGDILKSKKRQGWRTCLVPELSWELDIWAQEKERLEELKR  
LDTHLADIYQHMDGSSCELQVINFTKREIQMPHESVVEQEQANLDPASCLLSCNQSLPA  
KSCLSSAI

>sp|P61970|NTF2\_HUMAN Nuclear transport factor 2 OS=Homo sapiens GN=NUTF2 PE=1 SV=1  
MGDKPIWEQIGSSFIQHYYQLFDNDRTQLGAIYIDASCLTWEGQQFQGKAAIVEKLSSLP  
FQKIQHSITAQDHQPTPDSCIISMVVGQLKADEDPIMGFHQMFLKNINDAWVCTNDMFR  
LALHNFG

>sp|A6NNL0|NTM2B\_HUMAN NUT family member 2B OS=Homo sapiens GN=NUTM2B PE=3 SV=2  
MEVKGPSGRSFCCSEGGQFKSCLKRHTPSLLLPSSWKGNSGSLMAEALHRTSPTPNSCP  
LPLPLCRMSGVLCRNLFTFKFSLFQLDSGASGEPGHSGLTLGFSYCGNCQTAVVSAQP  
EGMASNGAYPVLGPGVTANPGTSLSVFTALPFTTPAPGPAHGPLLVTAGAPPGGPLVLST  
FPSTPLVTEQDGCPSGAGASNVFVQMRTEVGPVKAAQAQTLVLTQAPLVWQAPGALCGG  
VVCPPPLLLAAAPVVPVMAAQVVGGTQACEGWSQGLPLPPPPPPAAQLPPIVSQGNAGP  
WPQGAHGESSLASSQAKAPPDDSCNPRSVYENFRLWQHYKPLARRHLPQSPDTEALSCFL  
IPVLRSLARRKPTMTLEGLWRAMREWQHTSNFDRMIFYEMAЕКFLEFEAEEMQIQKSQ  
WMKGPQCLPPPATPRLEPRGPPAPEVVKQPVYLPSKAGPKAPTACLPPPRPQRPVTKARR  
PPRPHRRAETKARLPPPRPQRPAETKVPEEIPPEVVQEYVDIMEELLGPSLGATGEPEK  
QREEGVKQPQEDWTTPDPGLLSYIDKLCQKDFVTKVEAVIHPQFLEELLSPDPQMDF  
LALSQDLEQEEGLTLAQLVEKRLPPLKEKQHARAAPSRGTARLDSSSSKFAAGQGAERDV  
PDPQQGVGMETCPPQMTARDSQGRGRAHTGMARSEDVSVLLGCQDSPGLRAAWPTSPPQD  
HRPTCPGVGTKDALDLPGGSPVRESHGLAQGSSEEEELPSLAFLLGSHKLLPWWLPQSP  
VPASGLLSPEKWGPQGTHQSPSAERRGLNLAPSPANKAKKRPLFGSLSPAЕКТPYPGPGL  
RVSGEQSLTWGLGGPSQSQKRKGDPVSRKEKKQHCSQ

>sp|A1L443|NTM2F\_HUMAN NUT family member 2F OS=Homo sapiens GN=NUTM2F PE=2 SV=2  
MASNGAYPVLGPGVTNPGTSLSVFTALPFATPAPGPAHRPPLVTAVVPPAGPLVLSAFP  
STPLVAGQDGRGPSGAGASNVFVQMRTEVGPVKPPQAQTLILTQAPLVWQAPGTLCGGVM  
CPPPLLLAAAPGPVPTSAAQVVGGTQACEGWSHGLPLPPPPPPAAQVAPIVSPGNARPWQ  
GAHGEGLAPSQAKARPDDCKPKSVYENFRLWQHYKPLARRHLPQSPDTEALSCFLIPV  
LRSLARRKPTMTLEGLWQAMREWQHTSNFDRMIFYEMAЕКFLEFEAEEMQIQKSQWMK  
GPQSLPPPAPPRLEPRGPPAPEVVKQPVYLPSKDGPKAPTACLPPPRPQRPAETKAHLPP  
PRPQRPAETNAHLPPPRPQRPAETKVPEEIPPEVVQEYVDIMEELLGSHPGDTGEPEGQR  
EKGVQEQPQEDGITSDPGLLSYIDKLCQKDFVTKVEAVIHPRFLEELLSPDPQMDFLA  
LSQELEQEEGLTLAQLVEKRLLSLKEKGCGRAAPRHGTARLDSSPSEFAAGQEAAREVPD  
PQQRVSVETSPPQTAAQDPQGGQGRVRTGMARSEDPAVLLGCQDSPRLKAVRPTSPPQDHR  
PTCPGLGTKDALGLPGESPVKESHGLAKGSSEETELPGMVYVVGSHHRLRPWRLSQSPVP  
SSGLLSPGGRGPQALQSPSAQKRGLSPSPSPASKSKKRPLFGSPSPAЕКТPHPGPGLRV  
SGEQSLAWGLGGPSQSQKRKGDPVSRKEKKQHCSQ

>sp|P03886|NU1M\_HUMAN NADH-ubiquinone oxidoreductase chain 1 OS=Homo sapiens GN=MT-ND1  
PE=1 SV=1

MPMANLLLLIVPILIAMAFMLTERKILGYMQLRKGPNNVGPYGLLPFADAMKLFTEP  
LKPATSTITLYITAPTLALTIALLLWTPMPNPLVNLNLGLLFILATSSLAVYSILWSG  
WASNSNYALIGALRAVAQTISYEVTLAIIILLSTLLMSGSFNLSTLITTQEHLWLLPSWP  
LAMMWFI STLAE TN R T PFD LAEGESELVSGFNIEYAAGPFALFFMAEYTNIIIMNTLT  
ITTT  
IFLGTTYDALSPELYTTYFVTKTLLLTSLFLWIRTAYPRFRYDQLMHLLWKNFLPLTLAL  
LMWYVSMPTISSIPPQT

>sp|P35658|NU214\_HUMAN Nuclear pore complex protein Nup214 OS=Homo sapiens GN=NUP214 PE=1  
SV=2

MGDEMDAMIPEREMKDFQFRALKKVRIFDSPEELPKERSLLAVSNKYGLVFAGGASGLQ  
IFPTKNLLIQNKPGDDPNKIVDKVQGLLVPMKFP IHHLALSCDNLTLACMMSSSEYGSII  
AFFDVRTFSNEAKQKRPFA YHKLLKDAGGMVIDMKWNPTVPSMVAVCLADGSI AVLQVT  
ETVKVCATLPSTVAVTSVCWSPKGKQLAVGKQNGTVVQYLP TLQEKKVIPCPPFYESDHP  
VRVLDVLWIGTYVFAIVYAAADGTLETSPDVVMALLPKKEEKHPEIFVNFMEPCYGSCTE  
RQHYYLSYIEEWDVLAAASASTEVSILARQSDQINWESWLLDSSRAELP VTDKSDDS  
LPMGVVDYTNQVEITISDEKTLPPAPVLMMLSTDGVLCPFYMINQNP GVKSLIKTPERL  
SLEGERQPKSPGSTPTPTSSQAPQKLDASAAAAPASLPSSPA APIATFSLLPAGGAPT  
VFSFGSSSLKSSATVTGEPPSYSSGSDSSKAAPGPGPSTFSFVPPSKASLAPTPAASPVA  
PSAASFSGSSGFKPTLESTPVPSVSAPNIAMKPSFPPSTSAVKVNLSEKFTAAATSTPV  
SSSQSAPPMSPFSSASKPAASGPLSHPTPLSAPPSSVPLKSSVLPSPSGRSAQGSSSPVP  
SMVQKSPRITPPAAKPGSPQAKSLQPAVAEKQGHQWKSDPVMAGIGEEIAHFQKELEEL  
KARTSKACFQVGTSEEMKMLRTESDDLHTFLLEIKETTESLHGDISSLKTTLLEGFAGVE  
EAREQNERNRDSGYLHLLYKRPLDPKSEAQLQEIRRLHQYVKFAVQDVNDVLDLEWDQHL  
EQKKKQRHLLVPERETLFNTLANNREIINQQRKRLNHLVDSLQQLRLYKQTSLSLSSAV  
PSQSSIHSFSDLES LCNALLKTTIESHTKSLPKVPAKLSPMKQAQLRNFLAKRKTTPVR  
STAPASLSRSAFLSQRYEDLDEVSSSTSSVSQSLESEDARTSCKDDEAVVQAPRHAPVVR  
TPSIQPSLLPHAAPFAKSHLVHGSSPGVMGTSVATSASKIIPQGADSTMLATKTKVKGAP  
SPSHPISAPQAAAAAALRRQMASQAPAVNTLTESTLKNVPQVVNVQELKNNPATPSTAMG  
SSVPYSTAKTPHPVLTPVAANQAKQGS LINS LKPSGPTPASGQLSSGDKASGTAKIETAV  
TSTPSASGQFSKPFSPSGTG FNFGIITPTPSSNFTAAQGATPSTKESSQPD AFSSGGG  
SKPSYEAIPESPSPSGITSASNTTPGEPAASSSRPVAPSGTALSTTSKLETPPSKL GEL  
LFPSSLAGETLGSFSGLRVGQADDSTKPTNKASSTSLTSTQPTKTSGVPSGFNFTAPPVL  
GKHTEPPTVSSATTSVAPPAATSTSSTAVFGSLPVT SAGSSGVISFGGTSLSAGKTSFS  
FGSQQTNSTVPPSAPPPTTAATPLPTS FPTLSFGSLLSATTPSLPMSAGRSTEEATSSA  
LPEKPGDSEVSASAA SLLEEQQSAQLPQAPPQTSDSVKKEPVLAQPAVSNSGTAASSTSL  
VALSAEATPATTGVPDARTEAVPPASSFSVPGQTAVTAAAISSAGPVAVETSS TPIASST  
TSIVAPGPSAEAAAFGTVTSGSSVFAQPPAASSSSAFNQLTNNTATAPSATPVFGQVAAS  
TAPSLFGQQTGSTASTAAATPQVSSSGFSSPAFGTTAPGVFGQTTFGQASVFGQSASSAA  
SVFSFSQPGFSSVPAFGQPASSTPTSTSGSVFGAASSTSSSSSFSGQSSPNTGGGLFGQ  
SNAPAFGQSPGFGQGGSVFGGTAATTTAATSGFSFCQASGFGSSNTGSVFGQAASTGGI  
VFGQQSSSSSGSVFGSGNTGRGGGFFSGLGGKPSQDAANKNPFSSASGGFGSTATSNTSN  
LFGNSGAKTFGGFASSSFGEQKPTGTFFSSGGGSVASQGFGFSSPNKTGGFGAAPVFGSPP  
TFGGSPGFGGVPAFGSAPAFTSPLGSTGGKVFGEGTAAASAGGFGFGSSNTTSFGTLAS

QNAPTFGSLSQQTSGFGTQSSGFSFGSGTGGFSFGSNNSSVQGFGGWRS

>sp|Q9H6R4|NOL6\_HUMAN Nucleolar protein 6 OS=Homo sapiens GN=NOL6 PE=1 SV=2

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YKEPTNEELNRLRETEILFHSSLLRLQVEELLKEVRLSEKKKDRIDAFLEVNQRVVRVP  
SVPETELTDQAWLPAGVRVPLHQVPYAVKGCFLPPAQVTVVGSYLLGTCIRPDINVDV  
ALTMPREILQDKDGLNQRVFRKRALYLAHLAHLAQDPLFGSVCFSYTNCHLKPSLLLR  
PRGKDERLVTVRLHPCPPDPDFRCPRLPTKNNVRSAYRGQSPAGDGSPEPTPRYNTW  
VLQDTVLESHLQLLSTILSSAQGLKDGVALLKVWLRQRELDKGQGGFTGFLVSMLVFLV  
STRKIHTTMSGYQVLRVSLQFLATTDLTVNGISLCLSSDPSLPALADFHQAQSVVFLDSS  
GHLNLCADVTASTYHQVQHEARLSMMLLDSRADDGFHLLMTPKPMIRAFDHVHLRPLS  
RLQAACHRLKLWPELQDNGGDYVSAAAGPLTTLLEQGLGARLNLLAHSRPPVPEWDISQD  
PPKHKDSGTLTLGLLLRPEGLTSVLELGPEADQPEAAKFRQFWGSRSELRRFQDGAIREA  
VVWEAASMSQKRLIPHQVVTHLLALHADIPETCVHYVGGPLDALIQGLKETSSTGEEALV  
AAVRCYDDLRLWGLEGLPLTVSAVQGAHPVRLRYTEVFPTPVRPAFSFYETLRERSSL  
LPRLDKPCPAYVEPMTVVCHLEGSQWPQDAEAVQVRVAAQFLRLAELLTQQHGLQCRAT  
ATHTDVLKDGFFRIRVAYQREPQILKEVQSPEGMISLRDTAASRLERDTRQLPLTSA  
LHGLQQHPAFSGVARLAKRWVRAQLLGEQFADESLLVAAALFLHPEPFTPPSSPQVGF  
LRFLFLVSTFDWKNPLFVNLLNELTVEEQVEIRSGFLAARAQLPVMVIVTPQDRKNSVW  
TQDGPSAQILQQLVLAEEALPMLEKQLMDPRGPGDIRTVFRPPLDIYDVLIRLSRPHIP  
RHRQAVDSPAASFCRGLLSQPGPSSLMPVLGYDPPQLYLTQLREAFGLALFFYDQHGGE  
VIGVLWKPTSFPQPFKASSTKGRMVMSRGGELVMVPNVEAILEDFAVLGEGLVQTVEAR  
SERWTV

>sp|Q5SY16|NOL9\_HUMAN Polynucleotide 5'-hydroxyl-kinase NOL9 OS=Homo sapiens GN=NOL9 PE=1  
SV=1

MADSGLLLKRGSCRSTWLRVRKARPQLILSRPRRRRLGSLRWCGRRRLRWLLQAQASGV  
DWREGARQVSRAAAARRPNTATPSPIPSPTASEPESEPELESASSCHRPLLI PPVRPVG  
PGRALLLPVEQGFTFSGICRVTCLYGQVQVFGFTISQGGQPAQDIFSVYTHSCLSIHALH  
YSQPEKSKKELKREARNLLKSHLNLDDRRWSMQNFSPQCSIVLLEHLKTATVNFITSYPG  
SSYIFVQESPTPQIKPEYLALRSVGIRREKKRKGLQTESTLSALEELVNVSCEEVDGCP  
VILVCGSQDVGKSTFNRYLINHLLNSLPCVDYLECDLGQTEFTPPGCISLLNITEPVLGP  
PFTHLRTPQKMVYYGKPSCKNNYENYIDIVKYVFSAYKRESPLIVNTMGWVSDQGLLLLI  
DLIRLLSPSHVVQFRSDHSKYPDLTPQYVDDMDGLYTKSKTKMRNRRFRLLAFAFALEF  
ADEEKESPVEFTGHKLIGVYTDFAFRITPRNRESHNKILRDLISLSYLSQLQPPMPKPLS  
PLHSLTPYQVPFNAVALRITHSDVAPTHILYAVNASWVGLCKIQDDVRGYTNGPILLAQT  
PICDCLGFGICRGIDMEKRLYHILTPVPPEELRTVNCLLVGAIAIPHCVLKQCRGIEGTV  
PYVTTDYNFKLPGASEKIGAREPEEAHKEKPYRRPKFCRKMK

>sp|Q9NZP6|NPAP1\_HUMAN Nuclear pore-associated protein 1 OS=Homo sapiens GN=NPAP1 PE=1  
SV=2

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AASIFVAPKRPCPLPRAAAAPLGVLPVGVGLAIRKTPMLPARNPPRFGHPSSVRIPPPS  
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STHSQAGCARHLGKPDPAPEPAVGCSLLQQKLAEEVLNEEPPSSGLPIPLMSGK  
RMPDEKPFICIPPSAAPPRAARNRCKRKMISIPLLLPLPPSLPLLWDRGELPPPAPKL PCL

SVEGDLHTLEKSPEYKRNRILEDKTETMTNSSITQPAPSFSPVQTTDSLPLTTYTSQV  
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GGSYNSVVGAAPLTS DPPTPPSSTPSFKPPVTRESPISMCVDSPPPLSFLTLLPVPSTGT  
SVITSKPMNSTSVISTVTNNASAHLTSQTAVDPEVVNMDTTAPSQVVI FTSSLSSRVSSL  
PNSQIHCSAEQRHPGKTSVYTSPLPFIHNTTPSFNQLFGKEATPQPKFEAPDGGPQKAS  
LPSACVFLSLPIIPPPDTSTLVNSASTASSSKPPIETNAMHTTPPSKAVILQSASVSKKY  
LPFYLG LPGA SNTQPSGNTASVQGSTSLPAQSVRAPATASNHPLNPGATPQPKFGAPDGP  
QQKTS LPSA HDFLSLPIMVPPDTSTLVSSASAASLSKPAIDTSDMNTTPPSKTVILQSTF  
VSRKEEYIRFYMGLPGA SNTLHSDSIA SAQVSTS FPAQADRRPTTSSHPLNTGSISHST  
LGATDGGQKSDSSFILGNPATPAPVIGLTSPSVQPLSGSIIPPGFAELTSPYTALGTPVN  
AEPVEGHNASAFNPNGTAKTSGFRIATGMPGTGDSTLLVGNTIPGPQVIMGPGTPMDGGS  
GFSMSAPGPSSTSGELNIGQGSGTPTTSTVFPGQA AWDPTGHSMAAAPQGASNIPVFG  
YTSAAAYIPGLDPPTQNSCSGMDGTRSI VGGPCVPAFQQCILQHTWTERKFYTSSTHY  
YGQETYVRRHVCFQLP

>sp|Q8NG41|NPB\_HUMAN Neuropeptide B OS=Homo sapiens GN=NPB PE=1 SV=1

MARSATLAAAALALCLLLAPPGLAWYKPAAGHSSYSVGRAAGLLSGLRRSPYARRSQPYR  
GAEPGGAGASPELQLHPRLRLAVCVQDVAPNLQRCELPDGRGTQCKANVFLSLRAA  
DCLAA

>sp|P61916|NPC2\_HUMAN Epididymal secretory protein E1 OS=Homo sapiens GN=NPC2 PE=1 SV=1

MRFLAATFLLALSTAAQAEPVQFKDCGSVDGVIKEVNVSPCPTQPCQLSKGQSYSVNVT  
FTSNIQSKSSKAVVHGILMGVPVPFPIPEPDGCKSGINCPIQKDKTYSYLNKLPVKSEYP  
SIKL VVEWQLQDDKNQSLFCWEIPVQIVSHL

>sp|O15130|NPFF\_HUMAN Pro-FMRFamide-related neuropeptide FF OS=Homo sapiens GN=NPFF PE=3  
SV=1

MDSRQAAALLVLLLLIDGGCAEGPGGQEDQLSAEEDSEPLPPQDAQTSGSLLHYLLQAM  
ERPGRSQAFLFPQRFGRNTQGSWRNEWLSPRAGEGLNSQFWSLAAPQRFQKK

>sp|PODM63|NPIA8\_HUMAN Nuclear pore complex-interacting protein family member A8 OS=Homo  
sapiens GN=NPIA8 PE=3 SV=1

MFCCLG YEWLGGCTTWSAWINTLADHRHRGTD FGGSPWLLIITVFLRSYKFAISLCT  
SYLCVSFLKTI FPSQNGHDGSTDVQQRARRSNRRRQEGIKIVLEDIFTLWRQVETKVRK  
IRKMKVTTKVNHRDKINGKRKTAKELRKL SMKEREHREERQVSEAEENGKLD MKEIHT  
YMEMFQRAQALRRRAEDYYRCKITPSARKPLCNVRMAAVEHRHSSGLPYWPYLTAETLK  
NRMGHQPPPPTQQHSI IDNSLSLKT PSECVLYPLPPSADDNLKTPPECLLTPLPPSALPS  
ADDNLKTPAECLLYPLPPSADDNLKTPPECLLTPLPPSAPPSADDNLKTPPECVCSLPH  
PQRMIISRN

>sp|A8MRT5|NPIB5\_HUMAN Nuclear pore complex-interacting protein family member B5 OS=Homo  
sapiens GN=NPIB5 PE=2 SV=3

MVKLSIVLTPQFLSHDQGLTKELQQHVKS VTCPEYLRKVINTLADHHHRGTD FGGSPW  
LHVIIAFPTSYKVVITLWIVYLWVSLKTI FWSRNGHDGSTDVQQRARWSNRRRQEGLRS  
ICMHTKKRVSSFRGNKIGLKDVITLRRHVETKVRKIRKRKVTTKINHDKINGKRKTAR  
KQKMFQRAQELRRRAEDYHKCKIPPSARKALCNWVRMAAAEHRHSSGLPYWPYLTAETLK  
NRMGHQPPPPTQQHSI IDNSLSLKT PPECLLTPLPPSADDNLKTPPECVLTPLPPSADDN  
LKT PPECVLTPLPPSADDNLKTPPECLLTPLPPSADDNLKTPPECLLTPLPPSALPSAPP  
SADDNLKTRAECLLHPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLP

PSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPSERQLTPL  
PPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPSERQLTALPPSADDNIKTPAERLRGP  
LPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAFHPQRMISRHLPSVSSLPFHPQLH  
PQQMIISRYLLSVCGRFHHQPMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGGRF  
HPERMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGGRFHPQQMIISRHLPSVSSLP  
FHPQLHPQQMIISRHLPSVCGGRFHPQRMISRHLPSVSSLPFHPQLHPQQMIISRHLPS  
VCGGRFHPQQMIISRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGGRFHPQRMISRHLPS  
SVSSLPFHPQLHPQQMIISRHLPSVCGERLRGPLPPSADDNLKTPSERQLTPLPPSAPPS  
ADDNIKTPAERLRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPP  
SADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPPLATQEA  
EAEAEKPRKPKRQRAAEMEPPEPKRRRVGDVEPSRKPKRRRAADVEPSSPEPKRRRVGDVEPS  
RKPKRRRAADVEPSSPEPKRRRVGDVEPSRKPKRRRAADVEPSLPEPKRRRLS

>sp|A6NJ64|NPIL2\_HUMAN Putative NPIP-like protein LOC729978 OS=Homo sapiens PE=5 SV=4

MFCCLGYEWLSGGCKTWHSAWVINTLADHHHRGTDFFGGSPWLRIIIAFPRSYKVVLTWT  
VYLWLSFLKTIQSENGHDVSTDVQQRARRSNRRRQEGLRSICMHTKKRVSSFPGNKIGL  
KDVITLRRHVETKGRAKIRKMKVTTKINHDKINGKRKTAKKQKLSVKECEHAEKERQVS  
EAEENGKLDMEKIHTYMKMFQRAQELRRRAEDYHKCKIPPSARKALCNWVRMAAAEHRHS  
SGLPYWPLYTAETLKNRMGHQPPPTQQHSITDNSLSLKTPECLLTPLPPSADDNLKTP  
PECLLTPLPPSAPPSADDNLKTPPLATQEA  
EAEAEKPPKPKRWRAAEMESPPEPKRRRAAEV  
ESPPEPKRRRAAEVEPSSPEPKRRRLSKLRTGHCTQA

>sp|Q8TAT6|NPL4\_HUMAN Nuclear protein localization protein 4 homolog OS=Homo sapiens  
GN=NPLOC4 PE=1 SV=3

MAESIIIRVQSPDGVKRITATKRETAATFLKKVAKFEGFQNGFSVYINRNKTGEITASS  
NKSLLKIKHGDLLFLFPSSLAGPSSEMETSVPPGFKVFGAPNVVEDEIDQYLSKQDGK  
IYRSRDPQLCRHGPLGKCVHCVLEPFDEEDYLNHLEPPVKHMSFAYIRKLTGGADKGF  
VALENISCKIKSGCEGLPWPNGICTKCQPSAITLNRQKYRHVDNIMFENHTVADRFLDF  
WRKTGNQHFGLYGRYTEHKDIPLGIRAEVAAIYEPPQIGTQNSLELLEDPKAEVVDEIA  
AKLGLRKVGWIFTDLVSEDTRKGTVRYSRNKDITYFLSSEECITAGDFQNKHPNMCRLSPD  
GHFGSKFVTAVATGGPDNQVHFEGYQVSNQCMALVRDECLLPCKDAPELGYAKESSEQY  
VPDVFYKDVKFGNEITQLARPLPVEYLIIDITTTFPKDPVYTFSSISQNPFPINRDVLG  
ETQDFHSLATYLSQNTSSVFLDTISDFHLLLFLVTNEVMPLQDSISLLEAVRTRNEELA  
QTWKRSEQWATIEQLCSTVGGQLPGLHEYGAVGGSTHTATAAMWACQHCTFMNQPGTGHC  
EMCSLPRT

>sp|Q86SE8|NPM2\_HUMAN Nucleoplasmin-2 OS=Homo sapiens GN=NPM2 PE=1 SV=1

MNLSSASSTEEKAVTTVLWGCELSQERRTWFRPQLEGKQSCRLLHTICLGEKAKEEMH  
RVEILPPANQEDKKMQPVTIASLQASVLPVSMVGVQLSPVTFQLRAGSGPVFLSGQER  
YEASDLTWEEEEEEEEEEEEEEEEDEDEDADISLEEQSPVKQVKRLVPQKQASVAKKKK  
LEKEEEEIRASVRDKSPVKKAKATARAKKPGFKK

>sp|Q6UXI9|NPNT\_HUMAN Nephronectin OS=Homo sapiens GN=NPNT PE=2 SV=3

MDFLALVLVSSLYLQAAAEFDGRWPRQIVSSIGLCRYGGRIDCCGWARQSWGQCQPV  
QPRCKHGECIGPNKCKCHPGYAGKTCNQDLNECGLKPRPCKHRCMNTYGSYKCYCLNGYM  
LMPDGSCSSALTCSMANQYGCDDVVGQIRCQCPSGLQLAPDGRTCVDVDECATGRASC  
PRFRQCVNTFGSYICKCHKGFDLMYIGGKYQCHDIDECSLGQYQCSSFARCYNIRGSYKC  
KCKEGYQGDGLTCVYIPKVMIEPSGPIHVPKNGTILKGD TGNNWIPDVGSTWWPPKTP



>sp|Q8WWG1|NRG4\_HUMAN Pro-neuregulin-4, membrane-bound isoform OS=Homo sapiens GN=NRG4  
PE=1 SV=1

MPTDHEEPCGSPSHKSFCLNGGLCYVIPTIPSPFCRCVENYTGARCEEVFLPGSSSIQTKSN  
LFEAFVALAVLVTLIIIGAFYFLCRKGHFQRASSVQYDINLVETSSTSAAHHSHEQH

>sp|Q9Y328|NSG2\_HUMAN Neuron-specific protein family member 2 OS=Homo sapiens GN=NSG2  
PE=2 SV=1

MVKLNSNPSEKGTKPPSVEDGFQTVPLITPLEVNHLQLPAPEKVIVKTRTEYQPEQKNKG  
KFRVPKIAEFTVTILVSLALAFLACIVFLVVYKAFTYDHSCPEGFVYKHKRCIPASLDAY  
YSSQDPNSRSRFTVISHYSVAKQSTARAIQWLSAAAVIHEPKPKTKQGH

>sp|Q9H857|NT5D2\_HUMAN 5'-nucleotidase domain-containing protein 2 OS=Homo sapiens  
GN=NT5DC2 PE=1 SV=1

MRVESGSAQERGILLESSTLLEKTTASHEGRAPGNRELTDLLPPEVCSLLNPAAIYANN  
EISLRDVEVYGFYDYTLAQYADALHPEIFSTARDILIEHYKYPEGIRKYDYNPSFAIRG  
LHYDIQKSLLMKIDAFHYVQLGTAYRGLQVPVDEEVIELYGGTQHIPLYQMSGFYGKGPS  
IKQFMDIFSLPEMALLSCVVDFYFLGHSLEFDQAHLKYDVTDAIRDVHVKGGLMYQWIEQDM  
EKYILRGDETFAVLSRLVAHGKQLFLITNSPFSFVDKGMHRMVGPDWRQLFDVVIVQADK  
PSFFTDRRKPFRLDEKGSLLQWDRITRLEKGIYRQGNLFDLRLTEWRGPRVLYFGDHL  
YSDLADMLRHGWRTGAIIPELEREIRIINTEQYMHSLTWQQALTGLLERMQTYQDAESR  
QVLAAMKERQELRCITKALFNAQFGSIFRTFHNPTYFSRRLVRFSDLYMASLSCLLNRYR  
VDFTFYPRRTPLQHEAPLWMDQLCTGCMKTPFLGDMAHIR

>sp|Q9GZY6|NTAL\_HUMAN Linker for activation of T-cells family member 2 OS=Homo sapiens  
GN=LAT2 PE=1 SV=1

MSSGTELLWPGAALLVLLGVAASLCVRCRPGAKRSEKIYQQRSLREDQQSFTGSRTYSL  
VGQAWPGPLADMAPTRKDKLLQFYPSLEDPASSRYQNFSGSRHGSEEAYIDPIAMEYYN  
WGRFSKPPEDDDANSYENVLICKQKTETGAQQEGIGGLCRGDLSSLALKTGPTSGLCF  
SASPEEDEESEDYQNSASIHQWRESRKVMGQLQREASPGPVGSPDEEDGEPTYVNGEVAA  
TEA

>sp|Q12908|NTCP2\_HUMAN Ileal sodium/bile acid cotransporter OS=Homo sapiens GN=SLC10A2  
PE=1 SV=2

MNDPNSCVDNATVCSGASCVPESNFNNILSVVLSTVLTILLALVMFSMGCNVEIKKFLG  
HIKRPWGICVGFCLQFGIMPLTGFIISVAFDILPLQAVVLIIGCCPGGTASNILAYWVD  
GMDLSVSMTTCTSTLLALGMMPLCLLIYTKMWVDSGSIVIPYDNIGTSLVSLVVPVSIGM  
FVNHKWPQKAKIILKIGSIAGAILIVLIAVVGILYQSAWIIAPKLWIIIGTIFPVAGYSL  
GFLARIAGLPWYRCRTVAFETGMQNTQLCSTIVQLSFTPEELNVVFTFPLIYSIFQLAF  
AAIFLGFYVAYKKCHGKNKAEIPESKENGTEPESSFYKANGGFQPDEK

>sp|Q5PT55|NTCP5\_HUMAN Sodium/bile acid cotransporter 5 OS=Homo sapiens GN=SLC10A5 PE=2  
SV=1

MIRKLFIVLLLLLVITIEEARMSSLSFLNIEKTEILFFTKTEETILVSSSYENKRPNSSHL  
FVKIEDPKILQMVNVAKKISSDATNFTINLVTDEEGETNVTIQLWDSEGRQERLIEEIKN  
VKVKVLKQKDSLLQAPMHIDRNILMLILPLILLNKCAFGCKIELQLFQTVWKRPLPVILG  
AVTQFFLMPFCGFLLSQIVALPEAQAFGVVMTCTCPGGGGGYLFALLLDGDFTLAILMTC  
TSTLLALIMMPVNSYIYSRILGLSGTFHIPVSKIYSTLLFILVPVSIGIVIKHRIPEKAS  
FLERIIRPLSFILMFVGIYLTFTVGLVFLKTDNLEVILLGLLVPALGLLFGYSFAKVCTL  
PLPVCKTVAIESGMLNSFLALAVIQLSFPQSKANLASVAPFTVAMCSGCEMLLIILVYKA

KKRCIFFLQDKRKRNFLI

>sp|Q9BSD7|NTPCR\_HUMAN Cancer-related nucleoside-triphosphatase OS=Homo sapiens GN=NTPCR  
PE=1 SV=1

MARHVFLTGPPGVGKTTLIHKASEVLKSSGVPVDGFYTEEVRRQGRRIGFDVVTLSGTRG  
PLSRVGLEPPPGKRECRVGQYVVDLTSFEQLALPVLRNADCSSGPGQRCVIDEIGKMEL  
FSQLFIQAVRQTLSTPGTIIILGTIPVPGKPLALVEEIRNRKDVKVFNVTKENRNHLLPD  
IVTCVQSSRK

>sp|Q9H093|NUAK2\_HUMAN NUA family SNF1-like kinase 2 OS=Homo sapiens GN=NUAK2 PE=1 SV=1

MESLVFARRSGPTPSAAELARPLAEGLIKSPKPLMKQAVKRHHHKNLRHRYEFLETLG  
KGTYGKVKKARESSGRLVAIKSIRKDKIKDEQDLMHIRREIEIMSSLNHPHIIAIEHVFE  
NSSKIVIVMEYASRGDLYDYISERQQLSEREARHFFRQIVSAVHYCHQNRVVHRDLKLEN  
ILLDANGNIKIADFGLSNLHYHQKFLQTFCGSPLYASPEIVNGKPYTGPEVDSWSLGVLL  
YILVHGTMPFDGHDHKILVKQISNGAYREPPKPSDACGLIRWLLMVNPTRRATLEDVASH  
WWVNWGYATRVEQEAPHEGGHPGSDSARASMADWLRRSSRPLENGAKVCSFFKQHAPG  
GGSTTPGLERQHSCLKSRKENDMAQSLHSDTADTAHRPGKSNLKLPGILKKKSASAE  
GVQEDPPELSPIPASPGQAAPLLPKKGILKKPRQRESGYYSPEPSESSELDDAGDVFVS  
GDPKEQKPPQASGLLLHRKGILKLNKFSQTALELAAPTTFGSLDELAPPRPLARSRPS  
GAVSEDSILSSESFQDLDLPERLPEPPLRGCVSDNLTGLEPPSEGPGSCLRRWRQDPL  
GDSCFSLTDCQEVATYRQALRVCSKLT

>sp|Q9H1E3|NUCKS\_HUMAN Nuclear ubiquitous casein and cyclin-dependent kinase substrate 1  
OS=Homo sapiens GN=NUCKS1 PE=1 SV=1

MSRPVRNRKVVDSYQFQESDDADEDYGRDSGPPTKKIRSSPREAKNRRSGKNSQEDSED  
SEDKDVKTKKDDSHSAEDSEDEKEDHKNVRRQQAASKAASKQREMLMEDVGSEEEQEEE  
DEAPFQEKDSGSEDFLMEDDDSDYGSSKKKNKMKVKKSKPERKEKKMPKPRLKATVTP  
SPVKGKGKVGPRTASKASKEKTPSPKEEDEEPESPPEKKTSTSPPEKSGDEGSEDEAPS  
GED

>sp|O95989|NUDT3\_HUMAN Diphosphoinositol polyphosphate phosphohydrolase 1 OS=Homo sapiens  
GN=NUDT3 PE=1 SV=1

MMKLKSNQTRTYDGDGYKKRAACLCFRSESEEEVLLVSSSRHPDRWIVPGGMEPEEEPS  
VAAVREVCEEAGVKGTGLRVLGIFENQERKHRTYVYVLIVTEVLEDWEDSVNIGRKREWF  
KIEDAIKVLQYHKPVQASYFETLRQGYSANNGTPPVATTYSVSAQSSMSGIR

>sp|Q8WV74|NUDT8\_HUMAN Nucleoside diphosphate-linked moiety X motif 8 OS=Homo sapiens  
GN=NUDT8 PE=1 SV=2

MLPDCLSAEGLRCRRLLAGATARLRARPASAAVLVPLCSVRGVPALLYTLRSSRLTGRH  
KGDVSFPGGKCDPADQDVVHTALRETREELGLAVPEEHVWGLLRPVYDPQKATVVPVLAG  
VGPLDPQSLRPNSEEVDEVFALPLAHLQTQNGYTHFCRGGHFRYTLPVFLHGPHRVWG  
LTAVITEFALQLLAPGTYPRLAGLTCGAEGLARPKQPLASPCQASSTPGLNKGL

>sp|Q9UN36|NDRG2\_HUMAN Protein NDRG2 OS=Homo sapiens GN=NDRG2 PE=1 SV=2

MAELQEVQITEEKPLLPQTPEAAKEAELARILLDQGQTHSVETPYGVTFTVYGTGPKP  
KRPAILTYHDVGLNYKSCFQPLFQFEDMQEIIQNFRVRVHVDAPGMEEGAPVFPLGYQYPS  
LDQLADMIPCVLQYLNFTSTIIGVGAGAYILARYALNHPDTVEGLVLINIDPNAKGWMD  
WAAHKLTLGTSSIPMILGHLFSQEELSGNSELIQKYRNIITHAPNLNIELYWNSYNR  
RDLNFERGGDITLRCPVMLVVGDAQPHEDAVVECNKLDPTQTSFLKMADSGGQPQLTQP  
GKLTEAFKYFLQGMGYMASSCMTRLRSRRTASLTSAAVSDGNRSRRTLSQSSESGLTSS



GPPGHTMEVSC

>sp|Q9ULP0|NDRG4\_HUMAN Protein NDRG4 OS=Homo sapiens GN=NDRG4 PE=1 SV=2

MPECWDGEHDIETPYGLLHVIRGSPKGNRPAILTYHDVGLNHLKCFNTFFNFEDMQEIT  
KHFVVCVDAPGQQVGASQFPQGYQFPSMEQLAAMLPSVVQHFQFYVIGIGVGAGAYVL  
AKFALIFPDLVEGLVLVNIDPNGKGWIDWAATKLSGLTSTLPDVLSHLFSQEELVNNT  
LVQSYRQQIGNVVNQANLQLFWNMYNSRRDLINRPGTVPNAKTLRCPVMLVVGDNAPAE  
DGVVECNKSLDPTTTTFLKMADSGGLPQVTQPGKLTEAFKYFLQGMGYIAYLKDRRLSGG  
AVPSASMTLARSRTASLTSSASSVDGSRPQACTHSESSEGLGQVNHTMEVSC

>sp|O95803|NDST3\_HUMAN Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3  
OS=Homo sapiens GN=NDST3 PE=2 SV=1

MSFIMKLHRHFQRTVILLATFCMVSIISAYLYSGYKQENELSETASEVDCGDLQHLPY  
QLMEVKAMKLFDAASRTDPTVLVFVESQYSSLGQDIIMILESSRFQYHIEIAPGKGDLPVL  
IDKMKGKYILIIYENILKYINMDSWNRSLDKYCVYGVGVIGFHKTSKSVQSFQLKGF  
PFSIYGNLAVKDCINPHSPLIRVTKSSKLEKGS LPGTDWTFQINHSAYQPVIFAKVKT  
PENLSPSISKAFYATIIHDLGLHDGIQRVLFGNLNFHLHLIFIDAISFLSGKRLTSL  
LDRYILVDIDDFVGKEGTRMNTNDVKALLDTQNLRAQITNFTFNLGFSGKFYHTGTEE  
EDEGDDCLLSVDEFWWFPHMWSHMQPHLFHNESSLVEQMILNKKFALEHGIPDMGYAV  
APHHSGVYPVHVQLYEAWKKVWNIKITSTEEYPHLKPARYRRGF IHKNIMVLPRQTCGLF  
THTIFYKEYPGGPKELDKSIQGGELFFTIVLNPISIFMTHLSNYGNDRLGLYTFVNLANF  
VKSWTNLRQLTPPVQLAHKYFELFPDQKDPLWQNPCDDKRHRDIWSKEKTCDRLPKFLV  
IGPQKTGTALYLFLVMHPSILSNSPSPKTFEEVQFFNRNNYHRGIDWYMDFFPVPSNVT  
TDFLFEKSANYFHSEEAPKRAASLVPKAKIITILIDPSDRAYSWYQHQRSHEDPAALKFS  
FYEVISAGPRAPSELRALQKRCLVPGWYASHIERWL VYFPFQLIIDGQQLRTDPATVM  
DEVQKFLGVLPHYNYSEALTFDSHKGFWCQLLEEGKTKCLGKSKGRKYPMDSDSRTFLS  
SYYRDHNVLSKLLHKLGGPLPSWLRQELQKVR

>sp|O95182|NDUA7\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7  
OS=Homo sapiens GN=NDUFA7 PE=1 SV=3

MASATRLIQRLRNWASGHDLQGLQLRYQEISKRTQPPPKLPVGPSHKLSNNYYCTRDGR  
RESVPPSIIMSSQKALVSGKPAESSAVAATEKKAVTPAPPIKRWELSSDQPYL

>sp|Q86Y39|NDUAB\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 11  
OS=Homo sapiens GN=NDUFA11 PE=1 SV=3

MAPKVFRQYWDIPDGTDCRKAYSTTSIASVAGLTAAAYRVTLNPPGTFLGVAKVGGYT  
FTAAAVGAVFGLTTCISAHVREKPDPLNYFLGGCAGGLTLGARTHNYGIGAAACVYFGI  
AASLVKMGRLEGWEVFAKPKV

>sp|O95168|NDUB4\_HUMAN NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 OS=Homo  
sapiens GN=NDUFB4 PE=1 SV=3

MSFPKYKPSSLRTLPELTPDAEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLI  
ENPALLRWAYARTINVYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGK  
LDRTFHLSY

>sp|Q9BU61|NDUF3\_HUMAN NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor  
3 OS=Homo sapiens GN=NDUFAF3 PE=1 SV=1

MATALALRSLYRARPSLRCPPELWPAPRRGHRLSPADDELYQRTRISLLQREAAQAMYI  
DSYNSRGFMINGNRVLGPCALLPHSVVQWNVGSHQDITEDSFSLFWLLEPRIEIVVGTG  
DRTERLQSQVLQAMRQRGIAVEVQDTPNACATFNFLCHEGRVTGAALIPPPGGTSLTSLG

QAAQ

>sp|075489|NDUS3\_HUMAN NADH dehydrogenase [ubiquinone] iron-sulfur protein 3,  
mitochondrial OS=Homo sapiens GN=NDUFS3 PE=1 SV=1

MAAAVARLWWRGILGASALTRGTGRPSVLLLPVRRESAGADTRPTVRPRNDVAHKQLSA  
FGEYVAEILPKYVQQVQVSCFNELEVCIHPDGVIPVLTFLRDHTNAQFKSLVDLTAVDVP  
TRQNRFEIVYNLLSLRFNSRIRVKTYTDELTPIESAVSVFKAANWYEREIWD MFGVFFAN  
HPDLRRILTDYGFEHGFPRKDFPLSGYVELRYDDEVKRVVAEPVELAQEFRKFDLNSPWE  
AFPVYRQPPESLKLEAGDKKPKDAK

>sp|076041|NEBL\_HUMAN Nebulette OS=Homo sapiens GN=NEBL PE=1 SV=1

MRVPVFEDIKDETEEEKIGEEENEEDQVFYKPVIEDLSMELARKCTELISDIRYKEEFKK  
SKDKCTFVTDSPMLNHVKNGAFISEAKYKGTIKADLSNSLYKRMPATIDSVFAGEVTQL  
QSEVAYKQKHDAAKGFSDYAHMKEPPEVKHAMEVNKHQSNISYRKDVQDTHYSAELDRP  
DIKMATQISKIISNAEYKKGQIMNKEPAVIGRPDFEHAVEASKLSSQIKYKEKFDNEMK  
DKKHHYNPLESASFRQNQLAATLASNVKYYKKDIQNMHDPVSDLPNLLFLDHVLKASKMLS  
GREYKKLFEENKGMVYHFDADAVEHLHHKGNVQLSQVKYKEEYKNGKPMLEFVETPSY  
QASKEAQKMQSEKVKEDFEKEIKGRSSLDLDTPEFLHVKYITNLLREKEYKKDLENEI  
KKGGMELNSEVLDIQRAKASEMASEKEYKKDLESIKKGGMQAGTDTLEMQHAKKAAEI  
ASEKDYKRDLETEIKKGGMQVSTDTLDVQRAKKASEMASQKQYKKDLENEIKKGGMQVSM  
DIPDILRAKRTSEIYSQRKYKDEAEKMLSNYSTIADTPEIQRIKTTQQNISAVFYKKEVG  
AGTAVKDSPEIERVKKNQQNISSVKYKEEIKHATAISDPPELKRVKENQKNISNLQYKEQ  
NYKATPVSMTPEIERVRNQEQLSAVKYKGELQRGTAISDPPELKRAKENQKNISNVYYR  
GQLGRATTLSTPEMERVKKNQENISSVKYTQDHKQMKGRPSLILDTPAMRHVKEAQNHI  
SMVKYHEDFEKTKGRGFTPVVDDPVTERVRKNTQVVSDAAYKGVPHIVEMDRRPGIIVD  
LKVWRTDPGSIFDLDPLEDNIQSRSLHMLSEKASHYRRHWSRSHSSSTFGTGLGDDRSEI  
SEIYPSFSCCSEVTRPSDEGAPVLPGAYQQSHSQGYGYMHQTSVSSMRSMQHSPNLRTYR  
AMYDYSAQDEDEVSRFDGDIYVNVQPIDDGWMYGTVQRTGRTGMLPANYIEFVN

>sp|Q96NY8|NECT4\_HUMAN Nectin-4 OS=Homo sapiens GN=NECTIN4 PE=1 SV=1

MPLSLGAEMWGPEAWLLLLLLLLASFTGRCPAGELETSDVVTVVLGQDAKLPCFYRGDSGE  
QVGQVAWARVDAGEGAQELALLHSKYGLHVSPAYEGRVEQPPPPRNPLDGSVLLRNAVQA  
DEGEYECRVSTFPAGSFQARLRLRVLPPLPSLNPGPALEEGQGLTLAASCTAEGSPAPS  
VTWDTEVKGTTSSRSFKHSRAAVTSEFHLVPSRSMNGQPLTCVVSHPGLLQDQRITHIL  
HVSFLAEASVRGLEDQNLWHIGREGAMLKCLSEGQPPPSYNWTRLDGPLPSGVRVDGDTL  
GFPPLTTEHSGIYVCHVSNEFSSRDSQVTVDVLDPQEDSGKQVDLVSASVVVGVIAALL  
FCLLVVVVLMsRYHRRKAQMTQKYEEELTLTRENSIRRLSHHTDPRSQPEESVGLRA  
EGHPDSLKDNSSCSVMSEEPEGRSYSTLTTVREIETQTELLSPGSGRAEEEEEDQDEGIKQ  
AMNHVQENGTLRAKPTGNGIYINGRHLV

>sp|Q96PU5|NED4L\_HUMAN E3 ubiquitin-protein ligase NEDD4-like OS=Homo sapiens GN=NEDD4L  
PE=1 SV=2

MATGLGEPVYGLSEDEGESRILRVKVVSGIDLAKKIDFGASDPYVKLSLYVADENRELAL  
VQTKTIKKTLNPKWNEEFYFRVNPNSNHRLLFEVFDENRLTRDDFLGQVDVPLSHLPTEDP  
TMERPYTFKDFLLRPRSHKSRVKGFRLK MAYMPKNGGQDEENSQRRDDMEHGWEVVDSN  
DSASQHQEELPPPPLPPGWEEKVDNLGRTYVYVHNHNRRTTQWHRPSLMDVSSESNNIRQI  
NQEAHRRFRSRRHISEDLEPEPSEGDPPEPWETISEEVNIAGDSLGLALPPPPASPGS  
RTSPQELSEELSRRLQITPDSNGEQFSSLIQREPSSRLRSCSVTDAVAEQGHLPPPSAPA

GRARSSTVTGGEPTSPVAYVHTTPGLPSGWEERKDAKGRYYVNHNNRTTTWTRPIMQL  
AEDGASGSATNSNNHLIEPQIRRPRLSSPTVTLAPLEGAKDSPVRRRAVKDTLSNPQSP  
QSPSYNSPKPKQHKVTQSFLPPGWEMRIAPNGRPFFIDHNTKTTTWEDPRLKFPVHMRSKT  
SLNPNDLGPLPPGWEERIHLDGRTFYIDHNSKITQWEDPRLQNPAITGPAVPYSREFKQK  
YDYFRKKLKKPADIPNRFEMKLHRNNIFEESYRRIMSVKRPDVLKARLWIEFESEKGLDY  
GGVAREWFFLLSKEMFNPYYGLFEYSATDNYTLQINPNSGLCNEDHLSYFTFIGRVAGLA  
VFHGKLLDGFFIRPFYKMMLGKQITLNDMESVDSEYYNSLKWILENDPTELDLMFCIDEE  
NFGQTYQVDLKPNGSEIMVTNENKREYIDLVIQWRFVNRVQKQMNAFLEGFTTELLPIDLI  
KIFDENELELLMCGLDVDVNDWRQHSIYKNGYCPNHPVIQWFWKAVLLMDAEKRIRLLQ  
FVTGTSRVPMNGFAELYGSNGPQLFTIEQWGSPEKL PRAHTCFNRLDLPPYETFEDLREK  
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>sp|P46934|NEDD4\_HUMAN E3 ubiquitin-protein ligase NEDD4 OS=Homo sapiens GN=NEDD4 PE=1  
SV=4

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LIKENVQSQERSSVPSSENVNKKSSCLQISLQPTRYSGYLQSSNVLADSDDASFTCILKD  
GIYSSAVVDNELNAVNDGHLVSSPAICSGSLSNFSTSDNGSYSSNGSDFGSCASITSGGS  
YTNSVISDSSSYTFPPSDDTFLGGNLPSDSTSNRSVPNRNTTPCEIFSRSTSTDPPFVQDD  
LEHGLEIMKLPVSRNTKIPLKRYSSLVIFPRSPSTTRPTSPTSLCTLLSKGSYQTS HQFI  
ISPSEIAHNEDGTSAGFLSTAVNGLRLSKTICTPGEVRDIRPLHRKGS LQKKIVLSNNT  
PRQTVCEKSSSEGYSVCVSVHFTQRKAATLDCETTNGDCKPEMSEIKLNSDSEYIKLMHRTS  
ACLPSQNVDCQININGELERPHSQMNKHGILRRSISLGGAYPNISCLSSLKHNC SKGG  
PSQLLIK FASGNEGKVDNLSRDSNRDCTNELSNSCKTRDDFLGQVDVPLYPLPTENPRLE  
RPYTFKDFVLHPRSHKSRVKGYLR LKMTYLPKTSGEDD NAEQAELEPGWVVLDQPDAA  
CHLQQQQEPSP LPPGWEERQDILGRYYVNHESRRTQWKRP TPQDNLTDAENGNIQLQAQ  
RAFTTRRQISEETESVDNRESSENWEI IREDEATMYSNQAFPSPPSSNLDVPTHLAEEL  
NARLTIFGNSAVSQPASSSNHSSRRGSLQAYTFEEQPTLPVLLPTSSGLPPGWEEKQDER  
GRSYVDHNSRTTWT KPTVQATVETSQLTSSQSSAGPQSQASTSDSGQQVTQPSEIEQG  
FLPKGWEVRHAPNGRPFFIDHNTKTTTWEDPRLKIP AHLRGKTS LDTSNDLGPLPPGWEE  
RTHTDGRIFYINHNIKRTQWEDPRL ENVAITGPAVPYSRDYKRKYEFFRRKLKKQNDIPN  
KFEMKLRRATVLED SYRRIMGVKRA DFLKARLWIEFDGEKGLDYGGVAREWFFLISKEMF  
NPYYGLFEYSATDNYTLQINPNSGLCNEDHLSYFKFIGRVAGMAVYHGKLLDGFFIRPFY  
KMM LHKPITLHDMESVDSEYYNSLRWILENDPTELDLRFI IDEELFGQTHQHELKNGGSE  
IVVTNKNKKEYIYLV IQWRFVNR IQKQMAAFKEGFFELIPQDLIKIFDENELELLMCGLG  
DVDVNDWREHTKYKNGYSANHQVIQWFWKAVLMMDSEKRIRLLQFVTGTSRVPMNGFAEL  
YGSNGPQSFTVEQWGTP EKL PRAHTCFNRLDLPPYESFEELWDKLQMAIENTQGFDGVD

>sp|P78426|NKX61\_HUMAN Homeobox protein Nkx-6.1 OS=Homo sapiens GN=NKX6-1 PE=1 SV=2

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SPPLGTHNPGGLKPPATGGLSSLGSP PQLSAATPHGINDILSRPSMPVASGAALPSASP  
SGSSSSSSSSASASSASAAAAA AASSPAGLLAGLPRFSSLPPPPPPGLYFSPS  
AAVA AVGRYPKPLAELPGRTPIFWPGVMQSP PWRDARLACTPHQGSILLDKDGKRKHTR  
PTFSGQQIFALEKTFEQTKYLAGPERARLAYS LGMTESQVKVWFQNRRTKWRKKHAAEMA  
TAKKKQDSETERLKGASENEEEEDDYNKPLDPNSDDEKITQLKKHKSSSGGGGGLLLHA  
SEPESSS

>sp|Q8N2Q7|NLGN1\_HUMAN Neuroligin-1 OS=Homo sapiens GN=NLGN1 PE=1 SV=2

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IIDGRLPEVMLPVWFTNNLDVVSYYVDQSEDCLYLNIYVPTEDGPLTKKRDEATLNPPD  
TDIRDSGGPKPMVVIHGGSYMEGTGNLYDGSVLAASYGNVIVITVNYRLGVLGFLSTGDQ  
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DQDIQPARYHIAFGPVIDGDVIPDDPQILMEQGEFLNYDIMLGVNQGEGLKFVENIVDSD  
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QWVAPAVATADLHSNFGSPTYFYAFYHHCQTDQVPAWADAAHGDEVYVVLGIPMIGPTL  
FPCNFSKNDVMLSAVVMTYWTNFAKTGDPNQVPVQDTKFIHTKPNRFEEVAWTRYSQKDQ  
LYLHIGLKPRVKEHYRANKVNLWLELVPHLHNLNDISQYTSTTTKVPSTDITFRPTRKNS  
VPVTSAPFTAKQDDPKQSPSPFSVDQRDYSTELSVTIAGASLLFLNILAFAALYYKKDK  
RRHDVHRRCSQRRTTNDLTHAQEEEEIMSLQMKHTDLDECESIHPHEVVLRTACPPDYT  
LAMRRSPDDVPLMTPNTITMIPNTIPGIQPLHTFNTFTGGQNTLPHPHPHPHSHSTTRV  
>sp|Q7RTR2|NLRC3\_HUMAN Protein NLRC3 OS=Homo sapiens GN=NLRC3 PE=2 SV=2

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TVALDRLFLPLSRVSVPPRVSIITIGVAGMGKTTLVRFVRLWAHGQVGKDFSLVPLTFR  
DLNTHEKLCADRLICSVFPHVGEPSLAVAVPARALLILDGLDECRTPLDFSNTVACTDPK  
KEIPVDHLITNIIRGNLFPEVSIWITSRPSASGQIPGGVLDRMTEIRGFNEEEIKVCLEQ  
MFPEDQALLGWMLSQVQADRALYLMCTVPAFCRLTGMALGHLWRSRTGPQDAELWPPRTL  
CELYSWYFRMALSGEGQEKGKASPRIEQVAHGGRKMVGTLGRLAFHGLLKKKYVFYEQDM  
KAFGVDLALLQGAPCSCFLQREETLASSVAYCFTHLSLQEFVAAAAYYGASRAIFDLFT  
ESGVSWPRLGFLTHFRSAAQRAMQAEDGRLDVFLRFLSGLLSPRVNALLAGSLLAQGEHQ  
AYRTQVAELLQGCLRPDAAVCARAINVLHCLHELQHTELARSVEEAMESGALARLTGPAH  
RAALAYLLQVSDACAQEANLSLSQGVLSLLPQLLYCRKLRLDTNQFQDPVMELLGSV  
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NRTLTSLSLQGNTRDDGARSMAEALASNRTL SMLHLQKNSIGPMGAQRMA DALKQNRSL  
KELMFSSNSIGDGGAKALAEALKVNQGLESLDLQSNSISDAGVAALMGALCTNQTL SLS  
LRENSISPEGAQAI AHALCANSTLKNLDLTANLLHDQGARAIAVAVRENRTLTSHLQWN  
FIQAGAAQALGQALQLNRSLTSLDLQENAI GDDGACAVARALKVNTALTALYLQVASIGA  
SGAQLGEALAVNRTLEILDLRGNAIGVAGAKALANALKVNSSLRRLNLQENSLGMDGAI  
CIATALSGNHRLQHINLQGNHIGDSGARMISEAIKTNAPTCTVEM

>sp|P28336|NMBR\_HUMAN Neuromedin-B receptor OS=Homo sapiens GN=NMBR PE=1 SV=2  
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NIMLVKIFITNSAMRSVPNIFISNLAAGDLLLLLTCVPVDASRYFFDEWMFGKVGCKLIP  
VIQLTSVGVSVFTLTALSADRYRAIVNPMDMQTSGALLRTC VKAMGIWVVSVLLAVPEAV  
FSEVARISSLDNSSFTACIPYPQTDELHPKIH SVLIFLVYFLIPLAIISIYHYHIAKTLI  
KSAHNLPGEYNEHTKKQMETRKLAKIVLVFVGCFIFCWFPHILYMYRSFNENEIDPSL  
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>sp|P30419|NMT1\_HUMAN Glycylpeptide N-tetradecanoyltransferase 1 OS=Homo sapiens GN=NMT1  
PE=1 SV=2  
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VEDDDNMFRFDYSPEFLLWALRPPGWLQWHCGVRVSSRKLVGFI SAIPANIHIYDEK  
KMVEINFLCVHKKLSKRVPVLIREITRRVHLEGIFQAVYTAGVVLKPVGTCRYWHR  
LNPRKLI EVKFSHLSRNMTMQRTMKLYRLPETPKTAGLRPMETKDIPVVHQLLTRYLKQF  
HLTPVMSQEEVEHWFYPQENI IDTFVVENANGEVTDFLSFYTL PSTIMNHPTHKSLKAA  
SYFNVHTQTPLLDLMSDALVLAKMKGFDVFNALDLMENKTFLEKLKFGIGDGNLQYYLYN  
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>sp|Q9NP64|NO40\_HUMAN Nucleolar protein of 40 kDa OS=Homo sapiens GN=ZCCHC17 PE=1 SV=1

MNSGRPETMENLPALYTI FQGEVAMVTDYGAFIKIPGCRKQGLVHRTHMSSCRVDKPSEI  
VDVGDKVWVKLIGREMKNDRIVSLSMKVVNQGTGKDLDPNNVIEQEERRRRSFQDYG  
QKITLEAVLNTTCKKCGCKGHFAKDCFMQPGGTKYSLIPDEEEKEEAKSAEFKPD PTR  
NPSRKRKKEK KKKK KHRDRKSSDSDSDSESDTGKRARHTSKDSKAAK KKKK KKKK KHK  
E

>sp|095897|NOE2\_HUMAN Noelin-2 OS=Homo sapiens GN=OLFM2 PE=1 SV=2

MWPLTVPPPLLLLLCSGLAGQTLFQNPEEGWQLY TSAQAPDGKICITAVIPAQSTCSR DG  
RSRELRLMEKVQNVQSMEVLELR TYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQ  
ELKDRMTELLPLSSVLEQYKADTRTIVRLREEVRNLSGSLAAIQEEMGAYGYEDLQQRVM  
ALEARLHACAQKL GCGKLTGVSNPITVRAMGSRFGSWMTDTMAPSADSRVWYMDGYKGR  
RVLEFRTLGD FIKGNFIQHLLPQPWAGTGHVYNGSLFY NKYQSNVVKYHFRSRSVLV  
QRS LPGAGYNNTFPYSWGGFSDMDFMDESGLWAVYTTNQAGNIVVSRLDPHTLEV MRS  
WDTGYPKRSAGEAFMICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISML  
DYNPRERALYTWNNGHQVLNVTLFHVISTSGDP

>sp|Q96PB7|NOE3\_HUMAN Noelin-3 OS=Homo sapiens GN=OLFM3 PE=1 SV=1

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PDGRCICTVVAPEQNLCSRDAKSRQLRQLLEKVQNMSQSIEVLNLRTQRDFQYVLKMETQ  
MKGLKAKFRQIEDDRKTLMTKHFQELKEKMDELLPLIPVLEQYKTDAKLITQFKEEIRNL  
SAVLGTIQEEIGAYDYELHQRVLSLETRLRDCMKKLTGKLMKITGPVTVKTSGTRFGA  
WMTDPLASEKNNRVWYMDSYTNKIVREYKSIADFVSGAESRTYNLPFKWAGTNHVYNG  
SLYFNKYQSNIIKYSFDMGRVLAQRSLEYAGFHNVPYPTWGGFSDIDLMADEIGLWAVY  
ATNQNAGNIVISQLNQDTLEV MKSWSTGYPKRSAGESFMICGTLYVTNSHLTGAKVYYSY  
STKTSTYEYTDIPFHNQYFHISMLDYNARDRALYAWNNGHQVLNVTLFHIIKTEDDT

>sp|P78316|NOP14\_HUMAN Nucleolar protein 14 OS=Homo sapiens GN=NOP14 PE=1 SV=3

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RALRKRTQTLLKEYKERD KSNVFRDKRFGEYNSNMSPEEKMMKRFAL EQQRHHEKKS IYN  
LNEDEELTHYGQSLADIEKHNDIVDSDSDAEDRGTL SAELTAAHFGGGGGLLHKKTQ QEG  
EEREKPKSRKELIEELIAKSKQEKRERQAQREDALELTEKLDQDWKEIQ TLLSHKTPKSE  
NRDKKEKPKPDAYDMMVRELGFEMKAQPSNRMKTEAELAKEEQEHLRKLEAERLRRMLGK  
DEDENVKKPKHMSADDLNDGFVLDKDDRLLSYKDGKMNVEEDVQEEQSKEASDPESNEE  
EGDSSGGEDTEESDPSDHLDES NVESEEE NEKPAKEQRQTPGKLISGKERAGKATRD  
ELPYTFAAPESYEELRSLLLGRSMEEQLLVVERIQKCNHPSLAEGNKAKLEKLFGLLEY  
VGDLATDDPPDLTVIDKL VVHL YHLCQMFPEASDAIKFVLRDAMHEMEEMIETKGRAAL  
PGLDVL IY LKITGLLFPTSDFWHPVVT PALVCLSQLLTKCPILSLQDVVKGLFVCCLFLE  
YVALSQRFIPELINFLLGILYIATPNKASQGSTLVHPFRALGKNSELLVVSAREDVATWQ

QSSLSLRWASRLRAPTSTEANHIRLSCLAVGLALLKRCVLMYGSLSFHAIMGPLQALLT  
DHLADCSPQELQELCQSTLTEMESQKQLCRPLTCEKSKPVPLKLFTPRLVKVLEFGRKQ  
GSSKEEQERKRLIHKHKREFKGAVREIRKDNQFLARMQLSEIMERDAERKRKVKQLFNSL  
ATQEGEWKALKRKKFKK

>sp|Q9Y5S8|NOX1\_HUMAN NADPH oxidase 1 OS=Homo sapiens GN=NOX1 PE=1 SV=2

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NFNSTLILLPVCNRLLSFLRGTCFCSRTLRLKQLDHNLTfHKLVAYMICLHTAIHIIAHL  
FNFDCYSRSRQATDGLASILSSLSHDEKKGGSWLNPIQSRNTTVEYVTFTSIAGLTGVI  
MTIALILMVTSAFIRRSYFEVFWYTHHLFIFYILGLGIHGIGGIVRGQTEESMNESHP  
RKCAESFEMWDDRDSDHCRPKFEGHPPEWKWILAPVILYICERILRFYRSQQKVITKV  
VMHPSKVLELQMNKRGSMEVGGYIFVNCPSISLLEWHPFTLTSAPEDFFSIHIRAAGD  
WTENLIRAFEQQYSPIPRIEVDGPFGTASEDFVQYEVAVLVGAGIGVTPFASILKSIWYK  
FQCADHNLKTKKIYFYWICRETGAFSWFNNLLTSLEQEMEELGKVGFLNYRLFLTGWDSN  
IVGHAALNFDKATDVTGLKQKTSFGRPMWDFSTIATSHPKSVVGVLFCGPRTLAKSL  
RKCHRYSSLDPRKVQFYFNKENF

>sp|P13056|NR2C1\_HUMAN Nuclear receptor subfamily 2 group C member 1 OS=Homo sapiens  
GN=NR2C1 PE=1 SV=2

MATIEEIAHQIEEQMGIEIVTEQQTGQKIQIVTALDHNTQGKQFILTNDHGSTPSKVILA  
RQDSTPGKVFLTPDAAGVNQLFFTPDLSAQHLQLLTDNSPDQGNKVFDLCVVCGDKA  
SGRHYGAVTCEGCKGFFKRSIRKNLVYSCRGSKDCIINKHHRNRCQYCRLQRCIAFGMKQ  
DSVQCERKPIEVSREKSSNCAASTEKIYIRKDLRSPLTATPTFVTDSESTRSTGLLDSDGM  
FMNIHPSGVKTESAVLMTSDKAESCQGDLSLANVVTSLANLGKTKDLSQNSNEMSMIES  
LSNDDTSLCEFQEMQTNGDVSRAFDTLAKALNPGESTACQSSVAGMEGSVHLITGDSSIN  
YTEKEGPLLSDSHVAFRLTMPSPMPEYLVNHYIGESASRLFLSMHWALSIPSFQALGQE  
NSISLVKAYWNEFLTLGLACQWQVMNVATILATFVNCLHNSLQQDKMSTERRKLLMEHIF  
KLQEFCSNMVKLCIDGYEYAYLKAIVLFSPDHPSPLENMEQIEKFQEKAYVEFQDYITKTY  
PDDTYRLSRLLLRLPALRLMNATITEELFFKGLIGNIRIDSVIPHILKMEPADYNSQIIG  
HSI

>sp|P49116|NR2C2\_HUMAN Nuclear receptor subfamily 2 group C member 2 OS=Homo sapiens  
GN=NR2C2 PE=1 SV=1

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TGKIVILASPETSSAKQLIFTSDNLVPGRIQIVTDSASVERLLGKTDVQRPQVVEYCVVC  
GDKASGRHYGAVSCEGCKGFFKRSVRKNLTYSRNSQDCIINKHHRNRCQFCRLKKCLEM  
GMKMESVQSERKPFVDVQREKPSNCAASTEKIYIRKDLRSPLIATPTFVADKDGARQTGLL  
DPGMLVNIQQPLIREDGTVLLATDSKAETSQGALGTLANVVTSLANLSESLNNGDTSEIQ  
PEDQSASEITRAFDTLAKALNTDSSSSPSLADGIDTSGGGSIHVISRDQSTPIIEVEGP  
LLSDTHVTFKLTMPSPMPEYLVNHYICESASRLFLSMHWARSIPAFQALGQDCNTSLVR  
ACWNEFLTLGLACQAVMSLSTILAAIVNHLQNSIQEDKLSGDRIKQVMEHIWKLQEFEN  
SMAKLDIDGYEYAYLKAIVLFSPDHPGLTSTSQIEKFQEKAMQELQDYVQKTYSEDYRL  
ARILVRLPALRLMSSNITEELFFTGLIGNVSIDSIIPIYILKMETAEYNGQITGASL

>sp|P10588|NR2F6\_HUMAN Nuclear receptor subfamily 2 group F member 6 OS=Homo sapiens  
GN=NR2F6 PE=1 SV=2

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DKSSGKHVGVFTCEGCKSFFKRSIRRNLSTYCRSNRDCQIDQHHRNQCQYCRLKKCFRVG

MRKEAVQRGRIPHSPLGAVAASSGSPPGSALAAVASGGDLFPGQPVSELIAQLLRAEPYP  
AAAGRFGAGGGAAGAVLGIDNVCELAARLLFSTVEWARHAPFFPELPVADQVALLRLSWS  
ELFVLNAAQAALPLHTAPLLAAAGLHAAPMAAERAVAFMDQVRAFQEQVDKLGRLQVDSA  
EYGCLKAIALFTPDACGLSDPAHVESLQEKAQVALTEYVRAQYPSQPQRFGRLLLLRLPAL  
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>sp|000482|NR5A2\_HUMAN Nuclear receptor subfamily 5 group A member 2 OS=Homo sapiens  
GN=NR5A2 PE=1 SV=2

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QMPENMQVSQFKMVNYSYDEDELEELCPVCGDKVSGYHYGLLTCECKGFFKRTVQNNKRY  
TCIENQNCQIDKTQRKRCPYCRFQKCLSVGMKLEAVRADMRGGRNKFQPMYKRDRALKQ  
QKKALIRANGLKLEAMSQVIQAMPSDLTISSAIQNIHSASKGLPLNHAALPPTDYDRSPF  
VTSPISMTMPPHGSLQGYQTYGHFSPRAIKSEYDPYTSSPESIMGYSYMDSYQTSSPAS  
IPLHILELLKCEPDEPQVQAKIMAYLQQEQANRSKHEKLSFGLMCKMADQTLFSIVEWA  
RSSIFFRELKVDDQMKLLQNCWSELLILDHIYRQVVGKEGSIFLVTGQQVDYSIIASQA  
GATLNNLMSHAQELVAKLRSLQFDQREFVCLKFLVLFSLDVKNLENFQLVEGVQEQVNAA  
LLDYTCNYPQQTEKFGQLLLRLPEIRAISMQAEEYLYKHLNGDVPYNNLLIEMLHAKR  
A

>sp|Q7Z2Y5|NRK\_HUMAN Nik-related protein kinase OS=Homo sapiens GN=NRK PE=1 SV=2

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QRHQLWMVMELCAAGSVTDVVRMTSNQSLKEDWIAYICREILQGLAHLHAHRVIHRDIKG  
QNVLLTHNAEVKLVDGVSQVSRNTNGRRNSFIGTPYWMAPEVIDCDEDPRRSYDYRSDV  
WSVGITAIEMAEGAPPLCNLQPLEALFVILRESAPTVKSSGWSRKFNHMEKCTIKNFLF  
RPTSANMLQHPFVRDIKNERHVVESLTRHLTGIIKKRQKKGIPLIFEREEAIKEQYTVRR  
FRGPSCTHELLRLPTSSRCRPLRVLHGEPSPQPRWLPDREEPQVQALQQLQGAARVFMPLQ  
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PLHLDTPQLIPVEGQTGESPQAQAWTLEPPQAIGSVQALIEGLSRDLLRAPNSNNSKPLG  
PLQTLMENLSSNRFYSQPEQAREKSKVSTLRQALAKRLSPKRFRAKSSWRPEKLELSDL  
EARRQRRQRRWEDIFNQHEELRQVDKDESSDNDEVFHSIQAEVQIEPLKPYISNPK  
KIEVQERSPSVPNNQDHAHHVKFSSSVQPSLLEQAQKPIDIRQRSSQNRQNWLAASESS  
SEESPTVGRRSQSSPPYSTIDQKLLVDIHVPDGFVKGKISPPVYLTNEWVGYNALSEIF  
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QANDVCKDHDDNNKFVDDVNNNYYEAPSCPRASYGRDGSCQDQGYDGSRGKEEAYRGYG  
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SDFSANHSSPSKSGMSADANFASAILYAGFVEVPEESPKQPSEVNVNPLYVSPACKKPL  
IHMYEKEFTSEICCGSLWGVNLLLGTSLNLVLMDSGKADITKLIRRRPFRQIQVLEPLN  
LLITISGHKNRLRVYHLTWLRNKLNDPESKRRQEEMLKTEEACKAIDKLTGCEHFSVL  
QHEETTYIAIALKSSIHLYAWAPKSFDESTAIKVCIDQSADSEGDMYSYQAYIRILAKIQ  
AADPVNRFKRPDELLHLLKLKVFTLDHKPVTVDLAIGSEKRLKIFFSSADGYHLIDAES  
EVMDSVTLPKNPLEIIIPQNIILPDCLGIGMMLTFNAEALSVEANEQLFKKILEMWKDI  
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HHSRVYFMTLGKLEELQSNYDV

>sp|Q8IXM6|NRM\_HUMAN Nurim OS=Homo sapiens GN=NRM PE=1 SV=1  
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KGPVLWEARAEPWATWVPLLCFVLHVISWLLIFSILLVFDYAELMGLKQVYYHVLGLGEP  
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YLRAQLQRKLHLLSRPQDGEAE

>sp|Q9Y314|NOSIP\_HUMAN Nitric oxide synthase-interacting protein OS=Homo sapiens GN=NOSIP  
PE=1 SV=1

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IVSRPLNPFTAKALSGTSPDDVQPGPSVGPSPKDKDKVLPSPFWIPSLTPEAKATKLEKPS  
RTVTCPMGKPLRMSDLTPVHFTPLDSSVDRVGLITRSERYVCAVTRDSLSNATPCAVLR  
PSGAVVTLECEVKLIRKDMVDPVTGDKLTDRDIIVLQRGGTGFAGSGVKLQAEKSRPVMQ  
A

>sp|Q8IVI9|NOSTN\_HUMAN Nostrin OS=Homo sapiens GN=NOSTRIN PE=1 SV=2

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KTANLVISNWNQKIKAKKKLMVSTKKHEALFQLVESSKQSMTEKEKRKLLNKLTKSTEKL  
EKEDENYYQKNMAGYSTRLKWENTLENCYQSILELEKERIQLLCNNLNQYSQHISLFGQT  
LTTCHTQIHCAISKIDIEKDIQAVMEETAILSTENKSEFLLTDYFEEDPNSAMDKERRKS  
LLKPCLRLQRDIEKASKDKEGLERMLKTYSTSSFSDAKSQKDTAALMDENNLKDLLE  
ANSYKLSSMLAELEQRPQPSHPCSNSIFRWREKEHTHSYVKISRPFLMKRENIVSKASS  
GGQSNPGSSTPAPGAAQLSSRLCKALYSFQARQDDELNLEKGDIVIIEKKEGGWWFGSL  
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>sp|Q9Y5X5|NPFF2\_HUMAN Neuropeptide FF receptor 2 OS=Homo sapiens GN=NPFFR2 PE=1 SV=2

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VNDTKHHLYSDINITYVNYLHQPVAAIFIISYFLIFFLCMMGNTVVCFIVMRNKHMH  
VTNLFILNLAIISDLLVGIFCMPITLLDNIIAGWPFGNTMCKISGLVQGISVAASVFTLVA  
IAVDRFQCQVVPFKPKLTIKTAFAVIIMIIVLAIITIMSPSAVMLHVQEEKYYRVRNLNSQN  
KTSPVYWCREDWPNQEMRKIYTTVLFANIYLAPLSLIVIMYGRIGISLFRAAVPHTGRKN  
QEQWHVVSRRKKQKIIKMLLIVALLFILSWLPLWTLMLSDYADLSPNELQIINIYIYPFA  
HWLAFGNSSVNPIIYGFFNENFRRGFQEAFLQLCQKRAKPMAYALKAKSHVLINTSNQ  
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>sp|O60500|NPHN\_HUMAN Nephren OS=Homo sapiens GN=NPHS1 PE=1 SV=1

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AVQWAKDGLLLGPDPRIPGFPRYRLEGDPARGEFHLHIEACDLSDDAEYECQVGRSEMGP  
ELVSPRVILSILVPPKLLLLTPEAGTMVTWVAGQEYVVNCVSGDAKPAPDITILLSGQTI  
SDISANVNEGSQKLFTEATARVTPRSSDNRQLLVCEASSPALEAPIKASFTVNVLFPP  
GPPVIEWPGLDEGHVRAGQSLELPCVARGGNPLATLQWLKNGQPVSTAWGTEHTQAVARS  
VLVMTVRPEDHGAQLSCEAHNSVSAGTQEHGITLQVTFPPSAIIILGSASQTENKNVTL  
CVSKSSRPVLLRWLWLRQLLPMETVMDGLHGHHISMSNLTLFLARREDNGLTLTCEAF  
SEAFTKETFKKSLILNVKYPQKLWIEGPPEGQKLKLAGTRVRLVCLAIGGNPEPSLMWYK



DSRTVTESRLPQESRRVHLGSVEKSGSTFSRELVLVTGPSDNQAKFTCKAGQLSASTQLA  
VQFPPTNVTILANASALRPGDALNLTCVSVSSNPPVNLSDWKEGERLEGVAAPRRAPFK  
GSAAARSVLLQVSSRDHGQRVTCRAHSAELRETVSSFYRLNVLYPEFLGEQVLVVTAVE  
QGEALLPVSVSANPAPEAFNWTFRGYRLSPAGGPRHRLSSGALHLWNVTRADDGLYQLH  
CQNSEGTAEARLRDLVHYAPTIRALQDPTEVNVGGSVDIVCTVDANPILPGMFNWERLGE  
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WKPGFDGGLPQRFRCIRYEALGTPGFHYVDVPPQATTFTLTGLQPSTRYRVWLLASNALG  
DSGLADKGTQLPITTPGLHQPSGEPEDQLPTEPPSGPSGLPLLVLFAFGGLLLSNASC  
VGGVLWQRRRLRLAEGISEKTEAGSEEDRVRENEYEESQWTGERDTSSTVSTTEAEPYYR  
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>sp|075161|NPHP4\_HUMAN Nephrocystin-4 OS=Homo sapiens GN=NPHP4 PE=1 SV=2

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GSLQTLSCGFGILRIFSNQPDSPISASQDKRLRLYHGTPRALLHPLLQDPAEQNRHMTLI  
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LDDLFFTLYPSLEKFEEELLEHVQDHFQEGCGPLDGGALEILERRLRVGVHNGLGFVQR  
PQVVVLVPEMDVALTRSASF SRKVVSSSKTSSGSQALVLSRLRLEPMVGHPAFVIFQL  
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LVYKVPASMSSEEVKQVESGTLRFQFSLGSEEHLDAPEPVSGPKVERRPSRKPTSPS  
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LQSSGFPEILDANKQPAEAVSATEPVTFNPQKEESDCLQSNEMVLQFLAFSRVAQDCRG  
SWPKTVYFTFQFYRFPATTPLQLVLQDEAGQPSSGALTHILVPVSRDGTFDAGSPGFQ  
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SHELEVVA TEYEQDNMVVSGDMLGFRVKPIGVHVSVKGRHLTLANVGHPCEQKVRGCS  
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PQDVSRESDATRRRKLERMRSVRLQEAGGDLGRRGTSVLAQQSVRTQHRLDLQVIAAYRE  
RTKAESIASLLSLAITTEHTLHATLGVAEFFEFVLKNPHNTQHTVTVEIDNPELSVIVDS  
QEWDRFKGAAGLHTPVEEDMFHLRGSLAPQLYLRPHETAHVPFKFSFAGQLAMVQASP  
GLSNEKGMDAVSPWKSSAVPTKHAKVLFRASGGKPIAVLCLTVELQPHVVDQVFRFYHPE  
LSFLKKAIRLPPWHTFPGAPVGMLGEDPPVHVRCSDPNVICETQNVGPGEPRDIFLKVAS  
GPSPEIKDFFV I IYSDRWLATPTQTWQVYLHSLQRVDVSCVAGQLTRLSVLVLRGTQTVRK  
VRAFTSHPQELKTDPKGVFVLPPRGVQDLHVGVRPLRAGSRFVHLNLVDVDCHQLVASWL  
VCLCCRQPLISKAFEIMLAAGEGKGVNKRITYTNPYPSRRTFHLHSDHPELLRFREDSFQ  
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>sp|C9JG80|NPIB4\_HUMAN Nuclear pore complex-interacting protein family member B4 OS=Homo sapiens GN=NPIB4 PE=3 SV=2

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LHV I IAFPTS YKVVITLWIVYLWVSLLKTI FWSRNGHDGSTDVQQRARWSNRRRQEGLRS  
ICMHTKKRVSSFRGNKIVLKDVITLRRHVETKVRKIRKRVTTKINHDKINGKRKTAR  
KQKMFQRAQELRRRAEDYHKCKIPPSARKALCNWVRMAAAEHRHSSGLPYWPYLTAE TLK

NRMGHQPPPTQQHSITDNSLSLKTPECLLTPLPPSADDNLKTPECVLTPLPPSADDN  
LKTPECVLTPLPPSADDNLKTPECLLTPLPPSADDKLKTPECLLTPLPPSALPSAPP  
SADDNLKTRAECLLHPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLP  
PSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPSERQLTPL  
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LRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPE  
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SRHLPSVSSLPFHPQLHPQQMIISRHLPSVCGERLRGPLPPSADDNLKTPSERQLTPLPP  
SAPPSADDNIKTPAERLRGPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLR  
GPLPPSADDNLKTPSERQLTPLPPSAPPSADDNIKTPAERLRGPLPPSADDNLKTPLAT  
QEAEAEKPRKPKRQRAAEMEPPPEPKRRRVGDVEPSRKPKRRRAADVEPSSPEPKRRRVG  
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>sp|075200|NPIB7\_HUMAN Nuclear pore complex-interacting protein family member B7 OS=Homo sapiens GN=NPIB7 PE=3 SV=3

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IIIIIGFLRRYTFNVLFCTSCLCVSFLKTI FWSRNGHDGSM DVQQRWRSNRSRQKGLRS  
ICMHTKKRVSSFRGNKIGLKDVITLRRHVETKVRKIRKRKVTTKINRHDKINGKRKTAR  
KQKMFQRAQELRRRAEDYHKCKIPPSARKPLCNWVRMAAAEHCHSSGLPYWLYLTAETLK  
NRMGRQPPPTQQHSITDNSLSLKTPECLLTPLPPSVDDNIKECPLAPLPPSPLPPSVD  
DNLKECLFVPLPPSPLPPSVDDNLKECLFVPLPPSPLPPSVDDNLKTPLATQEAEVEKP  
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>sp|Q6W5P4|NPSR1\_HUMAN Neuropeptide S receptor OS=Homo sapiens GN=NPSR1 PE=1 SV=1

MPANFTEGSFDSSTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLITLWVLF  
VFTIVGNSVVLFTWRRKKKSRMTFFVTQLAITDSFTGLVNILTDINWRFTGDFTAPDLV  
CRVVRYLQVLLYASTYVLVLSIDRYHAIVYPMKFLQGEKQARVLIVIAWSLSFLFSIP  
TLIIFGKRTLSNGEVQCWALWPDDSYWTPYMTIVAFLVYFIPLTIISIMYGIVIRTIWIK  
SKTYETVISNCS DGKLCSSYNRGLISKAKIKAIKYSIIIIILAFICWSPYFLFDILDNFN  
LLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPCREQRSQDSRMTFRERTERH  
EMQILSKPEFI

>sp|Q14916|NPT1\_HUMAN Sodium-dependent phosphate transport protein 1 OS=Homo sapiens GN=SLC17A1 PE=2 SV=2

MQMDNRLPPKKVPGFCSFRYGLSFLVHCCNVIITAQRACLNLTMVVMVNSTDPHGLPNTS  
TKKLLDNIKNPMYNWSPDIQGIILSSTSYGVIIIQVPVGYFSGIYSTKKMIGFALCLSSV  
LSLLIPPAAGIGVAWVVVCRAVQGAAGIVATAQFEIYVKWAPPLERGLTSMSTSGFLL  
GPFIVLLVTGVICESLGWPMVFIYFGACGCAVCLLWFVLFYDDPKDHPCISISEKEYITS  
SLVQQVSSSRQSLPIKAILKSLPVWAISTGSFTFFWSHNIMTYTPMFINSMLHVNKEN  
GFLSSLPYLFAWICGNLAGQLSDFFLTRNILSVIAVRKLFTAAGFLLPAIFGVCLPYLSS  
TFYSIVIFLILAGATGSFCLGGVFINGLDIAPRYFGFIKACSTLTGMIGGLIASTLTGLI  
LKQDPESA WFKTFILMAAINVTGLIFYLIVATAEIQDWAKEKQHTRL

>sp|P47972|NPTX2\_HUMAN Neuronal pentraxin-2 OS=Homo sapiens GN=NPTX2 PE=1 SV=2

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AAVLQLRETVVQQKETLGAQREAIRELTKLARCEGLAGGKARGAGATGKDTMGDLPRDP  
GHVVEQLSRSLQTLKDRLESLEHQLRANVSNAGLPGDFREVLQQRLGELERQLLRKVAEL  
EDEKSLHNETSAHRQKTESTLNALLQRVTELERGNSAFKSPDAFKVSLPLRTNYLYGKI  
KKTLPelyaFTICLWLRSSASPGIGTPFSYAVPGQANEIVLIEWGNNPIELLINDKVAQL  
PLFVSDGKWHHICVTWTTTRDGMWEAFQDGEKLTGENLAPWHPIKPGGVILGQEQDTV  
GRFDATQAFVGELSQFNIWDRVLAQEIVNIANCSTNMPGNIIPWVDNNVDVFGGASKWP  
VETCEERLLDL

>sp|P50391|NPY4R\_HUMAN Neuropeptide Y receptor type 4 OS=Homo sapiens GN=NPY4R PE=2 SV=1  
MNTSHLLALLLPKSPQGENRSKPLGTPYNFSEHCQDSVDVMVFIVTSYSIETVVGVLGNL  
CLMCVTVRQKEKANVTNLLIANLAFSDFLMCLLCQPLTAVYTIMDYWIFGETLCKMSAFI  
QCMSVTVSILSLVLVALERHQLIINPTGWKPSISQAYLGIVLIWVIACVLSLPFLANSIL  
ENVFHKHNSKALEFLADKVCTESWPLAHHRTIYTTFLLLFQYCLPLGFILVCYARIYRR  
LQRQGRVFKGTYSRAGHMKQVNVVLVVMVVAFAVLWLPLHVFNSLEDWHHEAIPICHG  
NLIFLVCHLLAMASTCVNPFYIGFLNTNFKKEIKALVLTCCQSAPLEESEHLPLSTVHTE  
VSKGSLRLSGRSNPI

>sp|P56975|NRG3\_HUMAN Pro-neuregulin-3, membrane-bound isoform OS=Homo sapiens GN=NRG3  
PE=1 SV=1

MSEGAAAAAPPGAASAAAAAEEGTAAAAAAAAGGGPDGGGEGAAEPPRELRCSDCIVW  
NRQQTWLCVVPLFIGFIGLGLSMLLKWIVVGSVKEYVPTDLVDSKGMGQDPFFLSKPSS  
FPKAMETTTTTTSTPATPSAGGAASSRTPNRISTRLTTITRAPTRFPGHRVPIRASPR  
STTARNTAAPATVPSTAPFFSSSTLGSRPVPVGPSTQAMPSWPTAAYATSSYLHDSTP  
SWTLPFQDAASSSSSSSSATTTTPETSTSPKFHTTYYSTERSEHFKPCRDKLAYCLN  
DGEFCVIETLTGSHKHCRCKEGYQGVRCQQFLPKTDSILSDPTDHLGIEFMESEEVYQRQ  
VLSISCIIFGIVIVGMFCAAFYFKSKKQAKQIQEQLKVPQNGKSYSLKASSTMAKSENLV  
KSHVQLQNYSKVERHPVTALEKMMESSFVGPQSFPEVPSPDGRGSQSVKHHRSLSSCCSPG  
QRSGMLHRNAFRRTPPSPRSRLGGIVGPAYQQLEESRIPDQDTIPCQGIEVRKTISHLPI  
QLWCVERPLDLKYSSSGLKTQRNTSINMQLPSRETNPYFNSLEQKDLVGYSSSTRASSVPI  
IPSVGLEETCLQMPGISEVKS IKWCKNSYSADVNV SIPVSDCLIAEQQEVKILLETVQE  
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>sp|Q9NPI5|NRK2\_HUMAN Nicotinamide riboside kinase 2 OS=Homo sapiens GN=NMRK2 PE=1 SV=1  
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DMEAMLDTVQAWLSSPQKFARAHGVSVPQPEASDTHILLEGLLYSYKPLVDLYSRRYFL  
TVPYEECKWRRSTRNYTPDPGLFDGHVWPMYQKYRQEMEANGVEVVYLDGMKSREELF  
REVLEDIQNSLLNRSQESAPSPARPARTQGPGRGCGHRTARPAASQQDSM

>sp|Q9ULB1|NRX1A\_HUMAN Neurexin-1 OS=Homo sapiens GN=NRXN1 PE=2 SV=1  
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RSARGVLVLYFDEGFCDFLELILTRGGRLQLSFSIFCAEPATLLADTPVNDGAWHSVRIR  
RQFRNTTLFIDQVEAKWVEVKSRRDMTVFSGLFVGGLPELRAAALKLTLASVREREPF  
KGWIRDVRVNSSQVLPVDSGEVKLDDEPPNSGGGSPCEAGEEGEGVCLNGGVCVVDDQ  
AVCDCSRTGFRGKDCSQEDNNVEGLAHLMMGDQGKSKGKEEYIATFKGSEYFCYDLSQNP  
IQSSSDEITLSFKTLQRNGLMLHTGKSADYVNLALKNAGVSLVINLGS GA FEALVEPVNG  
KFNDNAWHDVKVTNRNLQRHSGIGHAMVTISVDGILTTTGYTQEDYTMLGSDDFFYVGGSP  
STADLPSPVSNFMGCLKEVYKNNVRLRLAKQGDPMKIHGVVAFKCENVATLD  
PITFETPESFISLPKWNAKKTGSISDFRTTEPNGLILFSHGKPRHQDAKHPQMIKVDF

FAIEMLDGHLYL LLDMSGTIKIKALLKKVNDGEWYHVD FQRDGRSGTISVNTLRTPYTA  
PGESEILDLDDEL YLGGLPENKAGLVFPTEVWTALLNYGYVGCIRDLFIDGQSKDIRQMA  
EVQSTAGVKPSCSKETAKPCLSNPCKNNGMCRDGNRYVCD CSGTYLGRSCREATVLS  
YDGSFMFKIQLPVVMHTEADVSLRFRSQRAYGILMATTSRDSADTLRELDAGRVKLT  
VNLDCIRINCNSKGPETL FAGYNLNDNEWHTVRVVRGKSLKLTVD DQAMTGQ MAGDHT  
RLEFHNIETGII TERRYLSVPSNF IGHLSLTFNGMAYIDLCKNGDIDYCELNARFGFR  
NIIADPVTFTKSSYVALATLQAYTSMHLFFQFKTSLDGLILYNSGDGND FIVVELVKG  
YLHYVFDLGNGANL IKGSSNKPLNDNQWHNVMISRDTSNLHTVKIDTKITTQITAGARNL  
DLKSDLYIGGVAKETYKSLPKLVHAKEGFQGCLASVDLNGRLPDLISDALFCNGQIERGC  
EGPSTTCQEDSCSNQGVCLQQWDGFSCDCSMTSFSGPLCNDPGTTYIFSKGGGQITYKWP  
PNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIHQGKIGVKFNVGTDDIAI  
EESNAIINDGKYHVVRFTSRGGNATLQVDSWPVIERYPAGRQLTIFNSQATIIIGGKEQG  
QPFQGGQLSGLYYNGLKVLNMAAENDANIAIVGNVRLVGEVPSSMTTESTATAMQSEMSTS  
IMETTTLATSTARRGKPPTKEPISQTTDDILVASAECPSDDEDIDPCEPSSGGLANPTR  
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YISNSAQSN GAVVKEKQPSSAKSSNKNKKNKDKEYYV

>sp|Q9Y6Y0|NS1BP\_HUMAN Influenza virus NS1A-binding protein OS=Homo sapiens GN=IVNS1ABP  
PE=1 SV=3

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FNSDSDPHGISHVKFDLNP EAVEVLLNYAYTAQLKADKELVKDVYSAAKKLKMDRVKQV  
CGDYLLSRMDVTSCISYRN FASCMGDSRLLNKVDAYIQEHL LQISEEEEFKLKLPRLKLEV  
MLEDNVCLPSNGKLYTKVINWVQRSIWENGDSLEELMEEVQTL YYSADHKLLDGNLLDGQ  
AEVFGSDDDHQFVQKQPPRENGHKQISSSTGCLSSPNATVQSPKHEWKIVASEKTSNN  
TYLCLAVLDGIFCVIFLHGRNSPQSSPTSTPKLSKLSFEMQQDELIEKPMSPMQYARSG  
LGTAEMNGKLI AAGGYNREECLRTVECYNPHTDHSFLAPMRTPRARFQMAVLMGQLYVV  
GGSNGHSDDLSCGEMYDSNIDDWIPPELRTNRCNAGVCALNGKLYIVGGSDPYGQKGLK  
NCDVFDPVTKLWTSCAPLNIRRHQSAVCELGGYLYIIGGAESWNCLNTVERYNPENNTWT  
LIAPMNVARRGAGAVLNGKLFVCGGFDGSHAISCVEMYDPTRNEWKMMGNMTSPRSNAG  
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>sp|B1A146|NTM2E\_HUMAN NUT family member 2E OS=Homo sapiens GN=NUTM2E PE=3 SV=3

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LPLPLCRMSGVLC SRNLFTFKFSLFQLDSGASGEPGHSGLGLTGF SYCGNCQTAVVSAQP  
EGMASNGAYPVLGPVGTANPGTSLSVFTALPFTTPAPGPAHGPLLVTAGAPPGGPLVLST  
FPSTPLVTEQDGCSPSGAGASN VFVQMRTEVGPVKAQAQTLVLTQAPLVWQAPGALCGG  
VVCPPPLLLAAAPVVPVMAAQVVGQTACEGGSQGLPLPPPPPPAAQLPPIVSQGNAGP  
WPQGAHGESSLASSQAKAPPDDSCNPRSVYENFRLWQHYKPLARRHLPQSPDTEALSCFL  
IPVLRSLARRKPTMTLEEGLWRAMREWQHTSNFDRMIFYEMA EKFLFEAE EEMQIQKSQ  
WMKGPQCLPPPATPRLEPRGPPAPEVVKQPVYLPSKAGPKAQTACLPPRPQRPVTKARR  
PPPQPHRRAETKARLPPRPQRP AETKVPEEIPPEVVQEYVDIMEELLGPSLGATGEPEK  
QREEGKVKQPQEEWTTPDPGLLSYIDKLCSQKDFVTKVEAVIHPQFLEELLSPDPQMDF  
LALSQDLEQEEGLTLAQLVEKRLPPLKEKQHSRAAPSRGTARLDSSSSKFAAGQGAERDV  
PDPQEGVGMETCPPQTTARDSQGRGRAHTGMARSEDSVLLGCQDSPGLRAARPTSPPQD  
HRPTCPGVGTKDALDLPGGSPVRESHGLAQGSSEEEELPSLAFLLSQHKL LPWWLPQSP  
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RVSGEQSLTWGLGGPSQSQKRKGDPLVSRKEKKQHCSQ

>sp|Q96CW9|NTNG2\_HUMAN Netrin-G2 OS=Homo sapiens GN=NTNG2 PE=1 SV=2

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CGDPPERFCSHENPYLCSNECDASNPDLAHPRLMFDKEEEGLATYWQSITWSRYPSPLE  
ANITLSWNKTVELTDDVVMTFEYGRPTVMVLEKSLDNGRTWQPYQFYAEDCMEAFGMSAR  
RARDMSSSSAHRVLCTEEYSRWAGSKKEKHVRFEVRDRFAIFAGPDLRNMDNLYTRLESA  
KGLKEFFTLTDLRMRLLRPALGGTYVQRENLYKYFYAISNIEVIGRCKCNLHANLCSMRE  
GSLQCECEHNTTGPDCGKCKKNFRTRSWRAGSYLPLPHGSPNACATAGSFGNCECYGHSN  
RCSYIDFLNVVTCVSKHNTRGQHCQHCRLGYRNGSAELDDENVCIECNCNQIGSVHDR  
CNETGFCECREGAAGPKCDDCLPTHYWRQGCYPNVDDDQLLCQNGGTCLQNQRACAPRG  
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>sp|P57740|NU107\_HUMAN Nuclear pore complex protein Nup107 OS=Homo sapiens GN=NUP107 PE=1  
SV=1

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QPFTPTSRSLLRQPDISCILGTGGKSPRLTQSSGFFGNLSMVTNLDDSNWAAAFSSQSRSG  
LFTNTEPHSITEDVTISAVMLREDDPGEAASMSMFSDFLQSFLKHSSSTVFDLVEEYENI  
CGSQVNILSKIVSRATPGLQKFSKTASMLWLLQQEMVTWRLLASLYRDRIQSALEESVF  
AVTAVNASEKTVVEALFQRDSLVRQSQLVVDWLESIAKDEIGFSDNIEFYAKSVYWENT  
LHTLKQRQLTSYVGSVRPLVTELPDAPIRQKMPLDDLREDEVRLKYLFTLIRAGMTE  
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NRYERAIYAALSGNLKQLLPVCDTWEDTVWAYFRVMVDSLVEQEIQTSVATLDETEELPR  
EYLGANWTLEKVFEEQLATDKKRVLLENQEYHIVQKFLILGDIDGLMDEFKWLKSRN  
NLPGHLLRFMTHLILFFRTLGLQTKEEVSIEVLKTYIQLLIREKHTNLIAFYTCHLPQDL  
AVAQYALFLESVTEFEQRHHCLELAKEADLDVATITKTIVENIRKKDNGEFSHDLAPAL  
DTGTTEEDRLKIDVIDWLVPDPAQRAEALKQGNAIMRKFLASKKHEAAKEVFVKIPQDSI  
AEIYNQCEEQGMESPLPAEDDNAIREHLCIRAYLEAHETFNEWFKHMNSVPQKPALIPQP  
TFTEKVAHEHKEKKYEMDFGIWKGHLDALTADVKEKMYNVLLFVDGGWMVDVREDAKEDH  
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>sp|Q8WUM0|NU133\_HUMAN Nuclear pore complex protein Nup133 OS=Homo sapiens GN=NUP133 PE=1  
SV=2

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EKLIWKIALSPITKLSVCKELQLPPSDFHWSADLVALSYSSPSGEAHSTQAVAVMVATR  
EGSIRYWPSLAGEDTYTEAFVDSGGDKTYSFLTAVQGSFILSSSGSLIRLIPESSGKI  
HQHILPQGQMLSGIGRKVSSLFILSPSSDLTSSVLWDRERSSFYSLTSSNISKWELD  
DSSEKHAYSWDINRALKENITDAIWGSESNYEAIKEGVNIRYLDLKQNCGLVILAAAWH  
SADNPCLIIYSLITIEDNGCQMSDAVTVEVTQYNPPFQSEDLILCQLTVPNFSNQTAYLY  
NESAVYVCSTGTGKFSLPQEKIVFNAQGDSVLGAGACGGVPIIFSRNSGLVSITSRENV  
ILAEDLEGLASSVAGPNSESMIFETTTKNETIAQEDKIKLLKAAFLQYCRKDLGHAQMV  
VDELFSSHSDLDSDSELDRVATQISVDLMDDYPASDPRWAESVPEEAPGFSNTSLIILHQ  
LEDKMKAHSFMLDFIHQVGLFGRLGSFPVRGTPMATRLLLCEHAEKLSAAIVLKNHHSRL  
SDLVNTAILIALNKREYEIPSNLTPADVFFREVSVQVDTICECLLEHEEQVLRDAPMDSIE  
WAEVVINNVNLIKDMLQAASHYRQNRNSLYRREESLEKEPEYVPWTATSGPGGIRTVIIR

QHEIVLKVAYPQADSNLRNIVTEQLVALIDCFLDGYVSQKSVDKSSNRERYDNLEMEYL  
QKRSDLLSPLLSLGQYLWAASLAEKYCDFDILVQMCEQTDNQSRLQRYMTQFADQNFSDF  
LFRWYLEKGKRGKLLSQPISQHGQLANFLQAHEHLSWLHEINSQELEKAHATLLGLANME  
TRYFAKKKTLLGLSKLAALASDFSEDMLQEKEEMAEQERFLLHQETLPEQLLAEKQLNL  
SAMPVLTAPQLIGLYICEENRRANEYDFKKALDLLEYIDEEEDININDLKLEILCKALQR  
DNWSSSDGKDDPIEVSKDSIFVKILQKLLKDGILQSEYLPVKDLLQADQLGSLKSNPYF  
EFVLKANYEYVYVQGQI

>sp|Q96G61|NUD11\_HUMAN Diphosphoinositol polyphosphate phosphohydrolase 3-beta OS=Homo sapiens GN=NUDT11 PE=1 SV=1

MKCKPNQTRTYDPEGFKKRAACLCFRSEREDEVLLVSSSRYPDRWIVPGGGMEPEEEPPGG  
AAVREYEEAGVGKGLGRLLGVFEQNQDRKHRTYVYVLTVTELLEDWEDSVSIGRKREWF  
KVEDAIKVLQCHKPVHAEYLEKLKLGGSPTNGNSMAPSSPDSDP

>sp|Q86X67|NUD13\_HUMAN Nucleoside diphosphate-linked moiety X motif 13 OS=Homo sapiens GN=NUDT13 PE=2 SV=3

MSLYCGIACRRKFFWCYRLLSTYVTKTRYLFELKEDDDACKKAQQTGAFYLFHSLAPLLQ  
TSAHQYLAPRHSLELERLLGKFGQDAQRIEDSVLIGCSEQQEAWFALDLGLDSSFSISA  
SLHKPEMETELKGSFIELRKALFQLNARDASLLSTAQALLRWHDHAFCSRSGQPTKKNV  
AGSKRVCPSNNIIYYPMAPVAITLVSDGTRCLLARQSSFPKGMYSALAGFCDIGESVEE  
TIRREVAEEVGLEVESLQYYASQHWPFPSGLMIACHATVKPGQTEIQVNLRELETAAWF  
SHDEVATALKRKGPYTQQNGTFPFWLPPKLAISHQLIKEWVEKQTCSSLPA

>sp|Q9Y266|NUDC\_HUMAN Nuclear migration protein nudC OS=Homo sapiens GN=NUDC PE=1 SV=1

MGGEQEEERFDGMLLAMAQQHEGGVQELVNTFFSFLRRKTDFFIGGEEGMAEKLITQTFS  
HHNQLAQKTRREKRARQEAERREKAERAARLAKEAKSETSGPQIKELTDEEAERLQLEID  
QKKDAENHEAQLKNGSLDSPGKQDTEDEDEEEDKDKGKLPNLGNGADLPNYRWTQTLSE  
LDLAVPFCVNFRLKGMVVDIQRRLRVGLKGQPAIIDGELYNEVKVEESSWLIEDGKV  
VTVHLEKINKMEWWSRLVSSDPEINTKKINPENSKLSDLDSETRSMVEKMMYDQRQKSMG  
LPTSDEQKKQEILKKFMDQHPEMDFSKAKFN

>sp|Q92982|NINJ1\_HUMAN Ninjurin-1 OS=Homo sapiens GN=NINJ1 PE=1 SV=2

MDSGTEEYELNGGLPPGTPGSPDASPARWGWRHGPINVNHYASKSAAESMLDIALLMAN  
ASQLKAVVEQGSPFAFYVPLVVLISISLVLQIGVGVLIFLVKYDLNPAKHAKLDFLNN  
LATGLVFIIVVNIIFITAFGVQKPLMDMAPQQ

>sp|Q9NZG7|NINJ2\_HUMAN Ninjurin-2 OS=Homo sapiens GN=NINJ2 PE=1 SV=1

MESARENIDLQPGSSDPRSQPINLNHYATKKSVAESMLDVALFMSNAMRLKAVLEQGPSS  
HYTTTLVTLISLSLLQVVIGVLLVVIARLNLNEVEKQWRLNQLNNAATILVFVTVVINV  
FITAFGAHKTGFLAARASNPL

>sp|O60936|NOL3\_HUMAN Nucleolar protein 3 OS=Homo sapiens GN=NOL3 PE=1 SV=2

MGNAQERPSETIDRERKRLVETLQADSGLLLDALLARGVLTGPEYEALDALPAERRVRR  
LLLLVQKGGEAACQELLRCAQRTAGAPDPAWDWQHVGPGYRDRSYDPPCPGHWTPEAPGS  
GTTCPGLPRASDPDEAGGPEGSEAVQSGTPEEPEPELEAEASKEAPEPEPEPEPEPEAE  
AEPEPELEPEPDPEPEPDPEERDESEDS

>sp|P46087|NOP2\_HUMAN Probable 28S rRNA (cytosine(4447)-C(5))-methyltransferase OS=Homo sapiens GN=NOP2 PE=1 SV=2

MGRKLDPTKEKRGPRGKARKQKGAETELVRFLPAVSDENSKRLSSRARKRAAKRRLGSVE  
APKTNKSPEAKPLPGKLPKGISAGAVQTAGKKGPQSLFNAPRGKKRPAPGSDEEEEEEDS

EEDGMVNHGDLWGSEDDADTVDDYGADSNSEDEEEGEALLPIERAARKQKAREAAAGIQW  
SEEEETEDEEEKEVTPESGPPKVEEADGGLQINVDEEPFVLPPAGEMEQAQAPDLQRVH  
KRIQDIVGILRDFGAQREEGRSRSEYLNRLKKDLAIYYSYGDFLLGKMDLFLPLSELVEF  
LEANEVPRPVTLRNTLTKRRRDLAQALINRGVNLDPKGWKTGLVVDSSVPIGATPE  
YLAGHYMLQGASSMLPVMALAPQEHERILDMCCAPGGKTSYMAQLMKNTGVILANDANAE  
RLKSVVGNLHRLGVTNTIIISHYDGRQFPKVVGGFDRVLLDAPCSGTGVISKDPAVKTNKD  
EKDILRCAHLQKELLSSAIDSVNATSKTGGYLVYCTCSITVEENEWVVDYALKKRNRLV  
PTGLDFGQEGFTRFRERRFHPSLRSTRRFYPHTNMDGFFIAKFKKFSNSIPQSQTGNSE  
TATPTNVDLPQVIPKSENSSQPAKKAKGAAKTKQQLQKQHPKKASFQKLNGISKGADSE  
LSTVPSVTKTQASSSFQDSSQPAGKAEGIREPKVTGKLKQRSPKLQSSKKVAFLRQNAPP  
KGTDTQTPAVLSPSKTQATLTKPDHHQPLGRAKGVEKQQLPEQPFEKAQAFQKQNDTPKGP  
QPPTVSPIRSSRPPPAKRKKSQSRGNSQLLS

>sp|Q9ULW6|NP1L2\_HUMAN Nucleosome assembly protein 1-like 2 OS=Homo sapiens GN=NAP1L2  
PE=1 SV=1

MAESENRKELSESSQEEAGNQIMVEGLGEHLERGEDAAAGLGDDGKCGEEAAAGLGEEGE  
NGEDTAAGSGEDGKKGDDTDEDSEADRPKGLIGYVLDTDFVESLPVKVKYRVLALKKLQT  
RAANLESKFLREFHDIERKFAEMYQPLLEKRRQIINAIYEPTEEECYKSDSEDCDDEEM  
CHEEMYGNEEGMVHEYVDEDDGYEDYYYDYAVEEEEEEEEEEDDIEATGEENKEEDPKGI  
PDFWLTVLKNVDTLTPLIKKYDEPILKLLTDIKVKLSDPGEPLSFTLEFHFKNPYFKNE  
LLTKTYVLKSKLAYDPHPYRGTAIEYSTGCEIDWNEGKNVLTIKKKQKHRIWGTIRT  
VTEDFPKDSFFNFFSPHGITSNGRDGNDFFLLGHNLRITYIIPRSVLFSSGDALESQQEGV  
VREVNDAIYDKIIYDNWMAAIEEVKACCKNLEALVEDIDR

>sp|Q9NQX5|NPDC1\_HUMAN Neural proliferation differentiation and control protein 1 OS=Homo  
sapiens GN=NPDC1 PE=1 SV=2

MATPLPPSPRHLRLRLLLSGLVLGAALRGAAAGHPDVAACPGSLDCALKRRARCPPGA  
HACGPCLPQPFQEDQQGLCVPRMRPPGGGRPQPRLEDEIDFLAQELARKESGHSTPPLPK  
DRQRLPEPATLGFSARGQGLELGLPSTPGTPTPTHTSLGSPVSSDPVHMSPLEPRGGQG  
DGLALVLILAFVCVAGAAALSVASLCWCRLQREIRLTQKADYATAKAPGSPAAPRISPGDQ  
RLAQSAEMYHYQHQRQMLCLERHKEPPKELDTASSDEENEDGDFTVYECPLAPTGEME  
VRNPLFDHAALSAPLPAPSSPPALP

>sp|Q9GZQ6|NPFF1\_HUMAN Neuropeptide FF receptor 1 OS=Homo sapiens GN=NPFFR1 PE=2 SV=1

MEGEPSPPNSSWPLSQNGTNTATPATNLTFSSYYQHTSPVAAMFIVAYALIFLLCMVG  
NTLVCFIVLKNRHMHTVTNMFILNLAVSDLLVGIFCMPTTLVDNLITGWPFDNATCKMSG  
LVQGMSVSASVFTLVAIAVERFCIVHPFREKLTLRKALVTIAVIWALALLIMCPSAVTL  
TVTREEHHFMVDARNRSYPLYSCWEAWPEKGMRRVYTTVLFSHIYLAPLALIVVMYARIA  
RKLCQAPGPAPGGEEAADPRASRRRARVVHMLVMVALFFTLWLPLWALLLLIDYGQLSA  
PQLHLVTVYAFPFHWAFFNSSANPIIYGYNENFRRGFQAAFRARLCPRPSGSHKEAY  
SERPGLLHRRVFVVVRPSDGLPSESGPSSGAPRPGRLPLRNGRVAHHGLPREGPGCSH  
LPLTIPAWDI

>sp|F8WFD2|NPIA3\_HUMAN Nuclear pore complex-interacting protein family member A3 OS=Homo  
sapiens GN=NPIA3 PE=3 SV=1

MFCCLGYEWLSGGCKTWSAWINTLADHRHRTDFGGSPWLLIITVFLRSYKFAISLCT  
SYLCVSFLKTIFFSQNGHDGSTDVQQRARRSNRRRQEGIKIVLEDIFTLWRQVETKVRK  
ICKMKVTTKVNHRDKINGKRKTAKEHLRKL SMKEREHGEKERQVSEAEENGKLDMEIHT

YMEMFQRAQALRRRAEDYYRCKITPSARKPLCNVRMAAAEHRHSSGLPYWPYLTAETLK  
NRMGHQPPPTQQHSIIDNSLSLKTPECLLTPLPPSALPSADDNLKTPAECLLYPLPPS  
ADDNLKTPPECLLTPLPPSAPPSVDDNLKTPPKCVCSLPFHPQRMIIISRN

>sp|075607|NPM3\_HUMAN Nucleoplasmin-3 OS=Homo sapiens GN=NPM3 PE=1 SV=3

MAAGTAAALAFLSQESRTRAGGVGGLRVPAPVTMDSFFFGCELSGHTRSFTFKVEEEDDA  
EHVLALTMLCLTEGAKDECNVVEVVARNHQHEIAVPVANLKLSCQPMLSLDDFQLQPPV  
TFRLKSGSGPVIRITGRHQIVTMSNDVSEEESEEEEDSDEEEVELCPILPAKKQGGRP

>sp|Q12980|NPRL3\_HUMAN Nitrogen permease regulator 3-like protein OS=Homo sapiens  
GN=NPRL3 PE=1 SV=1

MRDNTSPISVILVSSGSRGNKLLFRYPFQRSQEHASQTSKPRSRYAASNTGDHADEQDG  
DSRFSDEVILATILATKSEMCGQKFELKIDNVRVFGHPTLLQHALGQISKTDPSPKREAPT  
MILFNVVFALRANADPSVINCLHNLRRRIATVLQHEERRCQYLTREAKLILALQDEVSAM  
ADGNEGFPQSPFHILPKCKLARDLKEAYDSLCTSGVVRLHINSWLEVSFCLPHKIHYAAS  
SLIPPEATERSLKAIRPYHALLLLDEKSLLGELPIDCSPALVRVIKTTSAVKNLQQLAQ  
DADLALLQVFLAAHLVYWGKAIITPLCENNVYMLSPNASVCLYSPLAEQFSHQFPSHD  
LPSVLAKFSLPVSLSEFRNPLAPAVQETQLIQMVVWMLQRRLLIQLHTYVCLMASPSEEE  
PRPREDDVPFTARVGGRSLSTPNALSFGSPTSSDDMTLTSPSMDNSSAELLPSGDSPLNQ  
RMTENLLASLSEHERAAILSVPAQNPEDLRMFARLLHYFRGRHHLEEIMYNENTRRSQL  
LMLFDKFRSVLVVTTHEDPVIAVFQALLP

>sp|Q9UFN0|NPS3A\_HUMAN Protein NipSnap homolog 3A OS=Homo sapiens GN=NIPSNAP3A PE=1 SV=2

MLVLRSA LTRALASRTLAPQMCSSFATGPRQYDGI FYEFRSYLKP SKMNEFLENFEKNA  
HLRTAHSELVGYWSVEFGGRMNTVFHIWKYDNFAHRTEVRKALAKDKEWQEQLIPNLAL  
IDKQSEIITYLV PWCKLEKPPKEGVYELATFQMKPGGPALWGDAFKRAVHAHVNLGYTKL  
VGVFHTHEYGALNRVHVLWWNESADSRAAGRHKSHEDPRVVAAVRESVNYLVSQQNMLLIP  
TSFSPLK

>sp|P25929|NPY1R\_HUMAN Neuropeptide Y receptor type 1 OS=Homo sapiens GN=NPY1R PE=1 SV=1

MNSTLFSQVENHSVHSNFSEKNAQLLAFENDDCHLPLAMIFTLALAYGAVIILGVSGNLA  
LIIILKQKEMRNVNLIIVNLSFSDLLVAIMCLPFTFVYTLMDHWVFGAMCKLNPVFQ  
CVSITVSIFSLVLI AVERHQLIINPRGWRPNRHRAYVGI AVI WVLA VASSLPFLIYQVMT  
DEPFQNVTLDAYKDKYVCFDQFPSSDHRLSYTTLLVLQYFGPLCFIFICYFKIYIRLKR  
RNNMMDKMRDNKYRSSETKRINIMLLSIVVAFVCWLPLTIFNTVFDWNHQIATCNHNL  
LFLLCHLTAMISTCVNPIFYGFLNKNFQRDLQFFNFCDFRSRDDDYETIAMSTMHTDVS  
KTSCLKQASPVAFKKINNNDDNEKI

>sp|P49146|NPY2R\_HUMAN Neuropeptide Y receptor type 2 OS=Homo sapiens GN=NPY2R PE=1 SV=1

MGPIGA EADENQTV EEMKVEQYGPQTTPRGELVPDPEPELIDSTKLEI VQVVLILAYCSI  
ILLGVIGNSLVIHVVIKFSMRTVTNFFIANLAVADLLVNTLCLPFTLT YTLMG EWKMGP  
VLCHLV PYAQGLAVQVSTITLT VIALDRHRCIVYHLESKISKRISFLIIGLAWGISALLA  
SPLAIFREYSLIEIIPDFEIVACTEKWPGEESYIGTVYSLSSLLILYVLP LGIISFSYT  
RIWSKLKNHVSPGAANDHYHQRQKTTKMLVCVVVFAVSWLPLHAFQLAVDIDSQVLDL  
KEYKLIFTVFHIIAMCSTFANPLLYGWMNSNYRKAFLSAFRCEQRLDAIHSEVSVTFKAK  
KNLEVRKNSGPNDSFTEATNV

>sp|P01303|NPY\_HUMAN Pro-neuropeptide Y OS=Homo sapiens GN=NPY PE=1 SV=1

MLGNKRLGLSGLTLALLVCLGALAEAYPSKPDNPGEDAPAEDMARYYSALRHYINLIT  
RQRYGKRSSPETLISDLLMRESTENVPRTRLED PAMW



>sp|P51843|NROB1\_HUMAN Nuclear receptor subfamily 0 group B member 1 OS=Homo sapiens  
GN=NROB1 PE=1 SV=2

MAGENHQWQGSILYNMLMSAKQTRAAPEAPETRLVDQCWGCSCGDEPGVGREGLLGGRNV  
ALLYRCCFCGKDHPRQGSILYSMLTSAKQTYAAPKAPEATLGPCWGCSCGSDPGVGRAGL  
PGGRPVALLYRCCFCGEDHPRQGSILYSLLTSSKQTHVAPAAPEARPGAWWDRSYFAQR  
PGGKEALPGGRATALLYRCCFCGEDHPQQGSTLYCVPTSTNQAQAAPEERPRAPWWDTS  
GALRPVALKSPQVVCEAASAGLLKTLRFVKYLPCEFVLPLDQQLVLRNCWASLLMLELA  
QDRLQFETVEVSEPSMLQKILTTRRRETGGNEPLPVPTLQHHLAPPAEARKVPSASQVQA  
IKCFLSKCWSLNISTKEYAYLKGTVLFPDVPGLQCVKIYIQLQWGTQQILSEHTRMTHQ  
GPHDRFIELNSTLFLLRFINANVIAELFFRPIIGTVSMDDMMLEMLCTKI

>sp|Q16656|NRF1\_HUMAN Nuclear respiratory factor 1 OS=Homo sapiens GN=NRF1 PE=1 SV=1

MEEHGVQTTEHMAITIEAHAVAQQVQQVHVATYTESMLSADEDSPSSPEDTSYDDSDILN  
STAADEVTAHLAAAGPVGMAAAAATGKKRKRPHVFESNPSIRKRQQTRLRLKLRATLD  
EYTTTRVGQQAIVLCISPSKPNPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQE  
VNSELPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWGKESCKPIWWPEDIPW  
ANVRSDVRTEEQKQSVSWTQALRTIVKNCYKQHGREDLLYAFEDQQTQTQATATHSIAHL  
VPSQTVVQTFSPDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSAVADGEVEQNW  
ATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAE  
ATLQGGGQIVLSGETAAVGAALTGVQDANGLVQIPVSMYQTVVTSLAQNGPQVQVAMAPV  
TTRISDSAVTMDGQAVEVVTLEQ

>sp|O60462|NRP2\_HUMAN Neuropilin-2 OS=Homo sapiens GN=NRP2 PE=1 SV=2

MDMFPLTWVFLALYFSRHQVRGQPDPPCGGRLNSKDAGYITSPGYPDYPSHQNCEWIVY  
APEPNQKIVLNFNPHFEIEKHDCYDFIEIRDGDSADLLGKHCGNIAPPTIISSGSML  
YIRFTSDYARQGAGFSLRYEIFKTGSEDCSKNFTSPNGTIESPGFPEKYPHNLDCTFTIL  
AKPKMEIILQFLIFDLEHDPQVGECDKYDWLDIWDGIPHVGPLIGKYCGTKTPSELRS  
STGILSLTFHTDMAVAKDGFSARYLVHQEPLNFQCNVPLGMESGRIANEQISASSTYS  
DGRWTPQQSRLHGDDNGWTPNLDNKEYLQVDLRFLTMLTAIATQGAISRETQNGYYVKS  
YKLEVSTNGEDWMVYRHGKNHKVFQANNDATEVVLNKLHAPLLTRFVRIRPQTWHSGIAL  
RLELFGCRVTDAPCSNMLGMLSLIADSQISASSTQEYLWSPSAARLVSSRSGWFPRIPQ  
AQPGEELQVDLGTPTKTVKGVIIQGARGGDSITAVEARAFVRKFKVSYSLNGKDWEYIQD  
PRTQQPKLFEGNMHYDTPDIRRFDPIPAQYVRVYPERWSPAGIGMRLEVLGCDWTD SKPT  
VETLGPVKSEETTPYPTTEEEATECGENCSEFDDKDLQLPSGFNCNFDLEPCGWMYD  
HAKWLRTTWASSSSPNDRTPDDRNLRLQSDSQREGQYARLISPPVHLPRSPVCMFQY  
QATGGRGVALQVVREASQESKLLWVIREQQGGEWKHGRIILPSYDMEYQIVFEGVIGKGR  
SGEIAIDDIRISTDVPLENCMEPISAFAGENFKVDIPEIHEREGYEDEIDDEYEVDSNS  
SSATSGSGAPSTDKEKSWLYTLDPILITIIAMSSLGVLGATCAGLLLYCTCSYSGLSSR  
SCTTLENYNFELYDGLKHKVKMNHQKCCSEA

>sp|Q8IZ57|NRSN1\_HUMAN Neurensin-1 OS=Homo sapiens GN=NRSN1 PE=1 SV=1

MSSCSNVCGSRQAQAAAEAGGYQRYGVRSYLHQFYEDCTASIEWEYEDDFQIQRSPNRWSSV  
FWKVGILISGTVFVILGLTVLAVGFLVPPKIEAFGEADFVVVDTHAVQFNSALDMYKLAGA  
VLFICGGTSMAGCLLMSVFVKSYSKEEKFLQQKFKERIAADIKAHQPVTKAPGPGETKIP  
VTLSRVQNVQPLLAT

>sp|Q9GZP1|NRSN2\_HUMAN Neurensin-2 OS=Homo sapiens GN=NRSN2 PE=2 SV=1

MMPSCNRSCSCSRGPSVEDGKWYGVRSYLHLYFYEDCAGTALSDDPEGPPVLCPRRPWPSL

CWKISLSSGTL LLLLGVAALTTGYAVPPKLEGIGEGEFLVLDQRAADYNQALGTCRLAGT  
ALCVAAGVLLAICLFWAMIGWLSQDTKAEPDPEADSHVEVFGDEPEQQLSPIFRNASGQ  
SWFSPPASPFQSSVQTIQPKRDS

>sp|Q96L73|NSD1\_HUMAN Histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20  
specific OS=Homo sapiens GN=NSD1 PE=1 SV=1

MDQTCELPRRNCLLPFSNPVNLDAPEDKDSFPGNGQSNFSEPLNGCTMQLSTVSGTSQNA  
YQDSDPSCYIPLRRLQDLASMINVEYLNGSADGSESFQDPEKSDSRAQTPIVCTSLSPGG  
PTALAMKQEPSCNNSPELQVKVTKTIKNGFLHFENFTCVDDADVSEMDPEQPVTEDESI  
EEIFEETQTNATCNKETSENGVKVAMGSEQDSTPESRHGAVKSPFLPLAPQTETQKNKQ  
RNEVDGSNEKAALLPAPFSLGDTNITIEEQLNSINLSFQDDPDSSTSLGNMLELPGTSS  
SSTSQELPFCQPKKKSTPLKYEVGDLIWAKFKRRPWWPCRICSDPLINTHSMKVSNNRP  
YRQYYVEAFGDPSERAWVAGKAIVMFEGRHQFEELPVLRRRGKQKEKGYRHKVPQKILSK  
WEASVGLAEQYDVPKGSKNRKCI PGSIKLDSEEDMPFEDCTNDPESEHDL L L L N G C L K S L A  
FDSEHSAD E K E K P C A K S R A R K S S D N P K R T S V K K G H I Q F E A H K D E R R G K I P E N L G L N F I S G  
DISDTQASNELSRIANSLTGSNTAPGSFLFSSCGKNTAKKEFETSNGDSLGLPEGALIS  
KCSREKNKPQRS LVCGSKVKLCYIGAGDEEKRSDSISICTTSDDGSSDLDP I E H S S E S D N  
SVLEIPDAFDRTENMLSMQKNEKIKYSRFAATNTRVKAKQKPLISNSHTDHLMGCTKSAE  
PGTETSQVNLSDLKASTLVHKPQSDFTNDALSPKFNLS S I S S E N S L I K G G A A N Q A L L H S  
KSKQPKFRS I K C K H K E N P V M A E P P V I N E E C S L K C C S D T K G S P L A S I S K S G K V D G L K L L N  
NMHEKTRDSSDIETAVVKHVLSELKELSYRSLGEDVSDSGTSKPSKPLL F S S A S S Q N H I P  
IEPDYKFSTLLMMLKDMHDSKTKEQRLMTAQNLSYRSPGRGDCSTNSPVGVS K V L V S G G  
STHNSEKKGDGTQNSANPSPSGGDSALSGELSASLPGLLSDKRDLPASGKS R S D C V T R R N  
CGRSKPSSKL R D A F S A Q M V K N T V N R K A L K T E R K R K L N Q L P S V T L D A V L Q G D R E R G G S L R G  
GAEDPSKEDPLQIMGHLTSEDGDHFS D V H F D S K V K Q S D P G K I S E K G L S F E N G K G P E L D S V  
MNSENDELNGVNQVVPKKRWQLNQRRTKPRKRMNRFKEKENSECAFRVLLPSDPVQEGR  
DEFPEHRTPSASILEEPLTEQNHADCLDSAGPRLNVCDKSSASIGDMEKEPGIPSLTPQA  
ELPEPAVRSEKKRLRKPSKW L L E Y T E E Y D Q I F A P K K K Q K K V Q E Q V H K V S S R C E E S L L A R  
GRSSAQNKQVDENSLISTKEEPPVLEREAPFLEGPLAQSELGGGHAELPQLT L S V P V A P E  
VSPRPALESEELLVKT P G N Y E S K R Q R K P T K K L L E S N D L D P G F M P K K G D L G L S K K C Y E A G H  
LENGITESCATSYSKDFGGGTTKIFDKPRKRKRQRHAAAKMQCKKVKNDDSSKEIPGSEG  
ELMPHRTATSPKETVEEGVEHDPMPASKKMQGERGGGAALKENVCNCEKLGELLCEA  
QCCGAFHLECLGLTEMPRGKFI C N E C R T G I H T C F V C K Q S G E D V K R C L L P L C G K F Y H E E C V  
QKYPPTVMQNKGFRCSLHICITCHAANPANVSASKGRLMRCVRCPVAYHANDFCLAAGSK  
ILASNSIICPNHFTPRRGCRNHEHVNVS WC F V C S E G G S L L C C D S C P A A F H R E C L N I D I P E  
GNWYCNDCKAGKKPHYREIVWVKVGRYRWWPAEICHPRAVPSNIDKMRHDVGEFPVLFFG  
SNDYLWTHQARVFPYMEGDVSSKDKMGKVDGTYKKALQEAARFEELKAQKELRQLQED  
RKNDKKPPPYKHIVNRP I G R V Q I F T A D L S E I P R C N C K A T D E N P C G I D S E C I N R M L L Y E C  
HPTVCPAGGRCQNQCFSKRQYPEVEIFRTLQRGWGLRTKTDIKKGEFVNEYVGELIDEEE  
CRARIRYAQEHDI TNFYMLTLDKDRIIDAGPKGNYARFMNHCCQPNCE T Q K W S V N G D T R V  
GLFALSDIKAGTELTFNYNLECLGNGKTVCKCGAPNCSGFLGVRPKNQPIATEEKS K K F K  
KKQKGKRR T Q G E I T K E R E D E C F S C G D A G Q L V S C K K P G C P K V Y H A D C L N L T K R P A G K W E C P  
WHQCDICGKEAASFCEMCPSSFCKQHREGMLFISKLDGRLSCTEHDPCGPNPLEPGEIRE  
YVPPPVLPPGPSTHLAEQSTGMAAQAPKMSDKPPADTNQMLS L S K K A L A G T C Q R P L L P E  
RPLERTDSRPQLDKVRDLAGSGTKS Q S L V S S Q R P L D R P P A V A G P R P Q L S D K P S P V T S P S

SSPSVRSQPLERPLGTADPRDKSIGAASPRPQSLEKTSVPTGLRLPPDRLLITSSPKP  
QTSDRPTDKPHASLSQRLPPPEKVL SAVVQTLVAKEKALRPVDQNTQSKNRAALVMDLID  
LTPRQKERAASPHQVTPQADEKMPVLESSWPASKGLGHMPRAVEKGCVSDPLQTSKAA  
APSEDPWQAVKSLTQARLLSQPPAKAFLYEPTTQASGRASAGAEQTPGPLSQSPGLVKQA  
KQMVGGQQLPALAAKSGQSFRLGKAPASLPTEKKLVTTQSPWALGASSRAGLWPIV  
AGQTLAQSCWSAGSTQTLAQTCSLGRGQDPKPEQNTLPALNQAPSSHKCAESEQK

>sp|096028|NSD2\_HUMAN Histone-lysine N-methyltransferase NSD2 OS=Homo sapiens GN=WHSC1  
PE=1 SV=1

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEG  
VMQKFNGHDALPFIPADKLDLTSRVFNGEPGAHDAKLRFESQEMKGIGTPPNTTPIKNG  
SPEIKLKITKTYMNGKPLFESSICGDSAADVQSSEENGQKPENKARRNRKRSIKYDSLLE  
QGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVGDVWSKVSGYPWWPCMV  
SADPLLHSYTKLGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ  
APTAKAEIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDLHLNPQVA  
KEAGIAAESLGEMAESSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGK  
STPQKTAEADPRRGVGSPPGRKKT TVSMPRSRKGAASQFLVFCQKHRDEVVAEHPDASG  
EEIEELLRSQWSLSEKQRARYNTKFALVAPVQAEEDSGNVNGKKRNHTKRIQDPTEDAE  
AEDTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLSQAATKNLSDACKPLKKR  
NRSTAASSALGFSKSSSPSASLTENEVSDSPGDEPSESPYESADETQTEVSVSSKKSER  
GVTAKKEYVCQLCEKPGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCSECASGIHSCFVC  
KESKTDVKRCVVTQCGKFYHEACVKKYPLTVFESRGFRCPLHSCVCHASNPSNPRPSKG  
KMMRCVRCPVAYHSGDACLAAGCSVIASNSI ICTAHFTARKGKRHHAHVNVSWCFVCSKG  
GSLLCCESCPAAFHDPCLNIEMPDGSWFCNDCRAGKKLHFQDI IWVKLGNRWWPAEVCH  
PKNVPPNIQKMKHEIGEFPVFFFGSKDYWTHQARVFPYMEGDRGSRYQGVRGIGRVFKN  
ALQEAEARFREIKLQREARETQESERKPPPYKHIKVNKPYGKVQIYTADISEIPKCNCCKP  
TDENPCGFDSECLNRMLMFECHPQVCPAGEFCQNQCFTKRQYPETKIIKTDGKGWGLVAK  
RDIRKGEFVNEYVGELIDEEECMARIKHAHENDITHFYMLTIDKDRIIDAGPKGNYSRFM  
NHSCQPNCE TLKWTVNGDTRVGLFAVCDIPAGTELTFNYNLDCLGNEKTVCRCGASNC SG  
FLGDRPKTSTTLSSEEKGKTKKKTRRRRAKGEGKRQSEDECFRCGGGQLVLCDRKFCT  
KAYHLSCLGLGKRPF GKWECPWHHCDVCGKPSTSFCHLCPNSFCKEHQDGTAFSCTPDGR  
SYCCEHDLGAASVRSTKTEKPPPEPGKPKGKRRRRRGWRRVTEGK

>sp|Q96MF7|NSE2\_HUMAN E3 SUMO-protein ligase NSE2 OS=Homo sapiens GN=NSMCE2 PE=1 SV=2  
MPGRSSNSGSTGFI SFSGVESALSSLKNFQACINSGMDTASSVALDLVESQTEVSSEYS  
MDKAMVEFATLDRQLNHVYKAVQSTINHVKERPEKIPDLKLLVEKKFLALQSKNSDAF  
QNNKFFVQFKQLKELKKQCGLQADREADGTEGVDEDIIVTQSQTNFTCPITKEEMKKPV  
KNKVCGHYTEEDAIVRMIESRQKRKKKAYCPQIGCSHTDIRKSDLIQDEALRRAIENHNK  
KRHRHSE

>sp|P46459|NSF\_HUMAN Vesicle-fusing ATPase OS=Homo sapiens GN=NSF PE=1 SV=3  
MAGRSMQAARCPDELSTNCAVVNEKDFQSGQHVIVRTSPNHRYTFTLKTHPSVVP GSI  
AFSLPQRKWAGLSIGQEIEVS LYTDFKAKQCIGTMTIEIDFLQKKSIDSNPYDTDKMAAE  
FIQQFNNQAFSVGQQLVFSFNEKLFGLLVKDIEAMDPSILKGEPATGKRQKIEVGLVVG N  
SQVAFKAENSSLNLIGKAKTKENRQSIINPDWNFEKMGIGGLDKEFSDFRRAFASRVF  
PPEIVEQMCKKHVKGILLYGPPGCGKTLLARQIGKMLNAREPKVVNGPEILNKYVGESEA  
NIRKLFADAEEEEQRRLGANSGLHIIIFDEIDAICKQRGSMAGSTGVHDTVVNQLLSKIDG

VEQLNNILVIGMTNRPDLIDEALLRPGRLEVKMEIGLPDEKGRLQILHIHTARMRGHQLL  
SADVDIKELAVETKNFSGAELEGLVRAAQSTAMNRHIKASTKVEVDMEKAESLQVTRGDF  
LASLENDIKPAFGTNQEDYASYIMNGI IKWGDVPVTRVLDDGELLVQQTKNSDRTPLVSVL  
LEGPPhSGKTALAAKIAEESNFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQ LSCV  
VVDDIERLLDYVPIGPRFSNLVLQALLVLLKKAPPQGRKLLIIGTTSRKDVLQEMEMLNA  
FSTTIHVPNIATGEQLLEALELLGNFKDKERTTIAQQVKGKKVWIGIKLLMLIEMSLQM  
DPEYRVRKFLALLREEGASPLDFD

>sp|Q9UH64|NSGX\_HUMAN Susceptibility protein NSG-x OS=Homo sapiens GN=CDKN2A-AS1 PE=4  
SV=1

MRQRGQEHLPSTVKSEPRACNNPTVAENRRVPSGLAAVIRNLTALWNPSLGVSERRGGDW  
EPSRIPRLWARVGWIQLPG

>sp|Q96IY1|NSL1\_HUMAN Kinetochore-associated protein NSL1 homolog OS=Homo sapiens GN=NSL1  
PE=1 SV=3

MAGSPELVVLDPPWDKELAAGTESQALVSATPREDFRVRCSTSKRAVTEMLQLCGRFVQKL  
GDALPEEIREPALRDAQWTFESA VQENISINGQAWQEASDNCFMDS DIKVL EDQFDEIIV  
DIATKRKQYPRKILECVIKTIKAKQEILKQYHPVVHPLDLKYDPDPAPHMENLKRGETV  
AKEISEAMKSLPALIEQGEGFSQVLRMPV IHLQRIHQEVFSSCHRKPDAPENFITQIE  
TTP TETASRKTS DMVLKRKQTKDCPQRKWYPLRPKKINLDT

>sp|Q96HA8|NTAQ1\_HUMAN Protein N-terminal glutamine amidohydrolase OS=Homo sapiens  
GN=WDYHV1 PE=1 SV=2

MEGNPAAAVHYQPASPPRDACVYSSCYEENIWKLC EYIKNHDQYPLEECYAVFISNERK  
MIPIWKQQARPGDGPVIWDYHVLLHVSSGGQNF IYDLDTVLPFPCLFD TYVEDAFKSDD  
DIHPQFRRKFRVIRADSYLKNFASDRSHMKDSSGNWREPPPPYPC IETGDSKMNLNDFIS  
MDPKVGWGA VYTLSEFTHRFGSKNC

>sp|Q0GE19|NTCP7\_HUMAN Sodium/bile acid cotransporter 7 OS=Homo sapiens GN=SLC10A7 PE=2  
SV=1

MRLLERMRKDFWFMVGIVLAIAGAKLEPSIGVNGGPLKPEITVSYIAVATIFFNSGLSLKT  
EELTSALVHLKLHLFIQIFTLAFFPATIWLFLQLLSITPINEWLLKGLQTVGCMPPPVSS  
AVILTKAVGGNEAAAFNSAFGSFLGIVITPLLLLLFLGSSSSVPFTSIFS QLFMTVVVP  
LIIGQIVRRYIKDWLERKKPPFGA ISSSVLLMIYTTFCDTFSNPNI DLDFSLVLILFI  
IFSIQLSFMLLT FIFSTRNNSGFTPADTVAIIFCSTHKS LTLGIPMLKIVFAGHEHLSLI  
SVPLLIYHPAQILLGSVLVPTIKSWMVS RQKKLLQTRGPLANLNNPEGLEYLSIKFGH

>sp|Q9H1B4|NXF5\_HUMAN Nuclear RNA export factor 5 OS=Homo sapiens GN=NXF5 PE=2 SV=1

MRRNTQDENMRKWFKVTIPYGIKYDKAWLMNSIQSNCSVPFTPVD FHYIRNRACFFVQVA  
SAASALKDVSYKIYDDENQKICIFVSHFTAPYSVKNKLKPGQMEMLKLT MNKRYNVSQQA  
LDLQNLRFDPDLMG RDIDIILNRRNCMAATLKITERNFPELLSLNLCNNKLYQLDGLSDI  
TEKAPKVKTLNLSKNKLES AWELGKVKGKLEELWLEGNPLCSTFS DQSAYVSAIRD CFP  
KLLRLDGRELSAPVIVDIDSSETMKPCKENFTGSETL KHLVLQFLQQSNLCKYFKDSRNI  
KILKDPYLQRKLLKHTKCPRNVDLSALPETQHDFTS ILVDMWYQTVNTCFLPRAGPESQ  
RWWCLLSLKWKGDLRVLILPSCGPSSLPLAAIPVCAS

>sp|Q6UWF7|NXPE4\_HUMAN NXPE family member 4 OS=Homo sapiens GN=NXPE4 PE=2 SV=1

MKISMINYKSLLALLFILASWIIFTVFQNSTKVWSALNLSISLHYWNNSTKSLFPKTPLI  
SLKPLTETELRIKEIIEKLDQQIPRPFTHVNTTTSATHSTATILNPRD TYCRGDQLHIL  
LEV RDHLGRRKQYGGDFLRARMSSPALMAGASGKVTD FNNGTYLVSF TLFWEGQVSLSLL

LIHPSEGVLSALWSARNQGYDRVIFTGQFVNGTSQVHSECLILNTNAELCQYLDNRDQEG  
FYCVRPQHMPCAALTHMYSKNKKVSYLSKQEKSLFERSNVGVEIMEKFNTISVSKCNKET  
VAMKEKCKFGMTSTIPSGHVWRNTWNPVSCSLATVKMKECLRGKLIYLMGDSTIRQWMEY  
FKASINTLKSVDLHESGKLQHLAVDLDRNINIQQWKYCYPLIGSMTYSVKEMEYLTRAI  
DRTGGEKNTVIVISLGQHFRFPIDVFIIRALNVHKAIQHLLLRSPDTMVIKTENIREM  
YNDAERFSDFHGYIQYLIKIDIFQDLSVSIIDAWDITIAYGTTNNVHPPQHVVGNQINILL  
NYIC

>sp|Q9P242|NYAP2\_HUMAN Neuronal tyrosine-phosphorylated phosphoinositide-3-kinase  
adapter 2 OS=Homo sapiens GN=NYAP2 PE=1 SV=3

MISSKMMSSNPEEDPLDTFLQYIEDMGMKAYDGLVIQNASDIARENDRLRNETNLAYLKE  
KNEKRRRQEEAIKRIGGEVGRGHEGSYVGKHFRMGFMTMPAPQDRLPHPCSSGFSVRSQS  
LHSVGGTDDDSSCGSRRQPPPKPRDPSTKLSTSSETVSSTAASKSGKTPERTEASAKPR  
PHSDEYSKKIPPPKPKRNPNTQLSTSFDETYIKKHGPRRTSLPRDSSLSQMGSPAGDPEE  
EEPVIEMVGNILRDFRKEDDDQSEAVYEEMKYPIFDDLQDAKCFDHHSCSSQCATPT  
VPDLDFAKASVPCPPKGLLCDIPPPFNLLSHRPPLLVPAPVHCSNPDESPLTPLEV  
TKLPVLENVSYMKQPAGASPSTLPSHVPGHAKLEKEQAAALGPASATPALSSSPPPSTL  
YRTQSPHGYPKSHSTSPSPVSMGRSLTPLSLKRPPPYDAVHSGSLSRSSPSVPHSTPRPV  
SQDGAKMVNAAVNTYGAAPGGSRSRTPTSPLLELTSLFSSGRSLLRKSSSGRRSKEPAEK  
STEELKVRSHSTEPLPKLDNKERGHGASSSREPVKAEWDGTPGTPVVTSLRGRCVSP  
TLLAGNHSSEPKVSKLGRSASTSGVPPPSVTPLRQSSDLQSQVPSLANRD

>sp|Q8NG94|O11H1\_HUMAN Olfactory receptor 11H1 OS=Homo sapiens GN=OR11H1 PE=3 SV=3

MCPLTLQVTGLMNVSEPNSSFAFVNEFILQGFSCWTIQIFLFSLFTTTYALTITGNGAI  
AFVLWCDRRLHTPMYMLGNFSFLEIWIYVSSTVPKMLVNFLSEKKNISFAGCFLQFYFFF  
SLGTSECLLLTVMAFDQYLAICRPLLYPNIMTGHLAKLVILCWVCGFLWFLIPIVLISQ  
MPFCGPNIIDHVCDPGRFALDCVSAPRIQLFCYTLSSLVIFGNFLFIIGSYTLVKAM  
LGMPSSSTRGHKAFSTCGSHLAVVSLCYSSLVMVYSPGLGHSTGMQKIETLFYAMVTPLF  
NPLIYSLQNKIKEAALRKVLGSSNII

>sp|Q8NGC9|O11H4\_HUMAN Olfactory receptor 11H4 OS=Homo sapiens GN=OR11H4 PE=2 SV=1

MSFFFVDLRPMNRSATHIVTEFILLGFGPCWKIQIFLFSFLVIYVLTLLGNGAIYAVR  
CNPLLHTPMYFLLGNFAFLEIWIYVSSTIPNMLVNILSKTKAISFGCFLQFYFFFSLGTT  
ECLFLAVMAYDRYLAICHPLQYPAIMTVRFCKLVSFCLWIGFLGYPIPIFYISQLPFCG  
PNIIDHFLCDMDPLMALSCAPITECIFYTQSSLVLFFTSMYILRSYILLLTAVFQVPS  
AAGRRKAFSTCGSHLVVVSFLYGTVMVMYVSPTYGIPTLLQKILTLVYSVTTPLFNPLIY  
TLRNKDMKLALRNVLFGMRIQNS

>sp|Q96R47|O2A14\_HUMAN Olfactory receptor 2A14 OS=Homo sapiens GN=OR2A14 PE=3 SV=4

MEGNKTWITDITLPRFQVGPALAILLCGLFSAFYTLTLLGNGVIFGIICLDCKLHTPMYF  
FLSHLAIVDISYASNYVPKMLTNLMNQESTISFFPCIMQTFLYLAFAHVECLILVMSYD  
RYADICHPLRYNSLSWRVCTVLAVASWVFSLLALVPLVLILSLPFCGPHEINHFFCEI  
LSVLKLACADTWLNQVVIFAACVFILVGPLCLVLVSYLRILAAILRIQSGEGRRKAFSTC  
SSHLCVVGLFFGSAIVTYMAPKSRHPPEEQKVLSLFYSLFNPMLNPLIYSLRNAEVKGAL  
RRALRKERLT

>sp|Q8NHA4|O2AE1\_HUMAN Olfactory receptor 2AE1 OS=Homo sapiens GN=OR2AE1 PE=2 SV=1

MWQKNQTSLADFILEGLFDDSLTHLFLFSLTMVVFLIAVSGNTLTILLICIDPQLHTPMY  
FLLSQLSLMDLMHVSTIILKMATNYLSGKKSISFVGCATQHFLYLCLGGAECFLAVMSY

DRYVAICHPLRYAVLMNKKVGLMMAVMSWLGASVNSLIHMAILMHFPFCGPRKVYHFYCE  
FPAVVKLVCGDITVYETTVYISSILLLLPIFLISTSYVFILQSVIQMRSSGSKRNAFATC  
GSHLTVVSLWFGACIFS YMRPRSQCTLLQNKVGSVFYSIITPTLNSLIYTLRNKDVAKAL  
RRVLRDVTQCIQRLQLWLPRV

>sp|Q8NGE2|O2AP1\_HUMAN Olfactory receptor 2AP1 OS=Homo sapiens GN=OR2AP1 PE=3 SV=1  
MKNKTVLTEFILLGLTDVPELQVAVFTFLFLAYLLSILGNLTILILTLLDSHLQTPMYFF  
LRNFSFLEISFTNIFIPRVLISITGKNSISFAGCFTQYFFAMFLGATEFYLLAAMS YDR  
YVAICKPLHYTTIMSSRICIQLIFCSWLGGMLAIPTITLMSQQDFCASNRLNHYFCDYE  
PILLESCSDTSLIEKVVFLVASVTLVVTLVLVILSYAFIIKTILKLPSAQQRTKAFSTCS  
SHMIVISLSYGSCMFMYINPSAKEGDTFNKGVALLITSVAPLLNPFYITLRNQQVKQPFK  
DMVKLLNL

>sp|Q8NH01|O2T11\_HUMAN Olfactory receptor 2T11 OS=Homo sapiens GN=OR2T11 PE=3 SV=1  
MTNTSSSDFTLLGLLVNSEAAGIVFTVILAVFLGAVTANLVMIFLIQVDSRLHTPMYFLL  
SQLSIMDTLFICTVPKLLADSVSKEKIIISFVACGIQIFLYLTMIGSEFFLLGLMAYDCY  
VAVCNPLRYPVLMNRKKCLLLAAGAWFGSLDGFLLPITMNPVYCGSRINHHFCEIPA  
VLKLACADTSLYETLMYICCVMLLIPISIIISTSYSLILLTIHRMPSAEGRKKAFSTCSS  
HLTVVSIFYGAIFYTYVLPQSFHTPEQDKVVSIFYTIVTPMLNPLIYSLRNKDVIGAFKK  
VFACSSAQKVATSDA

>sp|Q8NG77|O2T12\_HUMAN Olfactory receptor 2T12 OS=Homo sapiens GN=OR2T12 PE=3 SV=1  
MEMRNTTPDFILLGLFNHTRAHQVLFMMLLATVLTSLFSNALMILLIHWDRHLHRPMYFL  
LSQLSLMDMLVSTTVPKMAADYLTGNKAISRAGCGVQIFFLPTLGGGECFLAAMAYDR  
YAAVCHPLRYPTLMSWQLCLRMTSSWLLGAADGLLQAVATLSFPYCGAHEIDHFFCEAP  
VLVRLACADTSVFENAMYICCVMLLVPFSLILSSYGLILAAVLLMRSTEARKKAFATCS  
SHVAVVGLFYGAGIFTYMRPKSHRSTNHDKVVSIFYTMTPLLNPLIYSVRNSEVKEALK  
RWLGTVCVNLKHQQNEAHRSR

>sp|Q8NGA8|O4F17\_HUMAN Olfactory receptor 4F17 OS=Homo sapiens GN=OR4F17 PE=2 SV=1  
MVTEFIFLGLSDSQGLQTFLFMLFFVFGGIVFGNLLIVITVVS DSHLHSPMYFLLANLS  
LIDLSSLSSVTAPKMITDFFSQRKVISFKGCLVQIFLLHFFGGSEMVILIAMGFDRYIATC  
KPLHYTTIMCGNACVGMVAVAWGIGFLHSVSQLAFVHLPFCGPNEVDSFYCDLPRVIKL  
ACTDTYRLDIMVIANSGLTVCSFVLLIISYTIILMTIQHRPLDKSSKALSTLTAHITVV  
LLFFGCPCVFIYAWPFPKSLDKFLAVFYSVITPLLNP IIYTLRNKDMKTAIRQLRKWDAH  
SSVKF

>sp|Q8NGJ6|O51A4\_HUMAN Olfactory receptor 51A4 OS=Homo sapiens GN=OR51A4 PE=3 SV=1  
MSIINTSYVEITTFVLVGMPGLEYAHIWISIPICSMYLIAILGNGTILFIIKTEPSLHEP  
MYYFLSMLAMSDLGLSSSLPTVLSIFLFAPEISSNACFAQEFFIHGFSVLESSVLLIM  
SFDRFLAIHNPLRYTSILTTRVAQIGIVFSFKSMLLVLPFPFTLRNLR YCKKNQLSHSY  
CLHQDVMKLACSDNRIDVIYGFFGALCLMVDFILIAVSYTLILKTVLGIASKKEQLKALN  
TCVSHICAVIIFYLPIINLAVVHRFARHVSPLINVLMANVLLVPPLTNPIVYCVKTKQI  
RRRVVAKLCQRKI

>sp|Q9Y5P1|O51B2\_HUMAN Olfactory receptor 51B2 OS=Homo sapiens GN=OR51B2 PE=3 SV=4  
MWPNITAAPFLLTGFPGLEAAHHWISIPFFAVYVCILLGNGMLLYLIKHDHSLHEPMYFF  
LTMLAGTDLMTLTMTPTVMGILWVNHREISSVGCFLQAYFIHSLSVVESGSLAMAYDC  
FIAIRNPLRYASILTNRVIALGVGVFLRGFVSILPVILRLFSFSYCKSHVITRAFCLHQ  
EIMRLACADITFNRLYPVILISLTIFLDCLIIILFSYILILNTVIGIASGEERAKALNTCI

SHISCVLIFYVTVMGLTFIYRFGKNVPEVVHIIMSYIYFLFPPLMNPVIYSIKTKQIQYG  
IIRLLSKHRFSS

>sp|Q9H340|051B6\_HUMAN Olfactory receptor 51B6 OS=Homo sapiens GN=OR51B6 PE=3 SV=2  
MGLNKSASTFQLTGFPMEKAHHWIFIPLLAAYISILLGNGTLLFLIRNDHNLHEPMYF  
LAMLAAATDLGVTLTMTPTVLGVLWLDHREIGHGACFSQAYFIHTLSVMESGVLLAMAYDC  
FITIRSPLRYTSILTNTQVMKIGVRVLTRAGLSIMPIVRLHWFYPYCRSHVLSHAFCLHQ  
DVIKLACADITFNRLYPVVVLFAMVLLDFLIIFFSYILILKTVMGIGSGGERAKALNTCV  
SHICCILVFYVTVCLTFIHRFGKHVPHVVHITMSYIHFLFPPFMNPFYISIKTKQIQSG  
ILRLFSLPHSRA

>sp|Q8TCB6|051E1\_HUMAN Olfactory receptor 51E1 OS=Homo sapiens GN=OR51E1 PE=2 SV=1  
MVDPNGNESSATYFILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEP  
MYIFLCMLSGIDILISTSSMPKMLAIFWFNSTTIQFDACLLQMFIAHSLSGMESTVLLAM  
AFDRYVAICHPLRHATVLTLPRTKIGVAAVVRGAALMAPLPVFIKQLPFCRSNILSHSY  
CLHQDVMKLACDDIRNVVYGLIVIIISAIGLDSLLISFSYLLILKTVLGLTREAQAKAFG  
TCVSHVCAVFIFYVPFGLSMVHRFSKRDSPLPVILANIYLLVPPVLNPIVYGVKTEI  
RQRILRLFHVATHASEP

>sp|Q8NH63|051H1\_HUMAN Olfactory receptor 51H1 OS=Homo sapiens GN=OR51H1 PE=3 SV=1  
MTNLNASQANHRNFILTGIPGTPDKNPWLAFLPGFLYTLTLLGNGTILAVIKVEPSLHEP  
TYYFLSILALTDVSLSMSTLPMSLSIYWFNAPQIVFDACIMQMFFIHVFGIVESGVLVSM  
AFDRFVAIRNPLHYVSILTHDVIRKTGIAVLTRAVCVFVPFPLIKCLPFCHSNVLSHSY  
CLHQNMMLRACASTRINSYGLIVVIFTLGLDVLLTLLSYVLTCLKTVLGIVSRGERLKT  
STCLSHMSTVLLFYVPFMGAASMIHRFWEHLSPVVHVMADIYLLPPVLNPIVYSVTK  
QI

>sp|Q9H2C8|051V1\_HUMAN Olfactory receptor 51V1 OS=Homo sapiens GN=OR51V1 PE=3 SV=2  
MFLSSRMITSVSPSTSTNSSFLTGFSGMEQQYPWLSIPFSSIYAMVLLGNCMVHLHIWT  
EPSLHQPMFYFLSMLALTDLCMGLSTVYTVLGILWGIIREISLDSCIAQSYFIHGLSFME  
SSVLLTMAFDRIYAICNPLRYSSILTNSRIKIGLTIIGRSFFFFITPPIICKFFNYCHF  
HILSHSFCLHQDLLRLACSDIRFNSYALMLVICILLDDAILILFSYILILKSVLAVASQ  
EERHKLFTQCISHICAVLVFYIPIISLTMVHRFGKHLSPVAHLIGNIYILFPPLMNPII  
YSVKTQQIHTRMLRLFSKRY

>sp|A6NMU1|052A4\_HUMAN Olfactory receptor 52A4 OS=Homo sapiens GN=OR52A4P PE=2 SV=1  
MALPITNGTLFMPFVLTFIGIPGFESVCWIGIPFCATYVIALIGNSLLLIIKSEPSLH  
EPMYIFLATLGATDISLSTSIVPKMLDIFWFHLPEIYFDACLFQMWLIHTFQGIESGVLL  
AMALDRCVAICYPLRRAIVFTRQLVTYIVVGVTLPAILVIPCLLLIKCHLKLYRTKLIY  
HTYCERVALVKLATEDVYINKVYGILGAFIVGGDLFIFITLSYIQIFITVFHLPLKEARL  
KVFNTCIPHIYVFFQFYLLAFFFIYFSQIWILYPIICTYHLVQSLPTGPTIPQPLYLWVK  
DQTH

>sp|Q8NGH6|052L2\_HUMAN Putative olfactory receptor 52L2 OS=Homo sapiens GN=OR52L2P PE=5  
SV=3  
MNLDSPFSFLLKSLIMALSNSSWRLPQPSFFLVGIPGLEESQHWIALPLGILYLLALVGN  
VTILFIIWMDPSLHQSMYFLSMLAAIDLVASSTAPKALAVLLVRAQEIGYTVCLIQMF  
FTHAFSSMESGLVAMALDRYVAICHPLHHSTILHPGVIGHIGMVVLVRGLLLIPFLIL  
LRKLIFCQATIIGHAYCEHMAVVKLACSETTVNRAYGLTVALLVGLDLAIGVSYAHIL  
QAVLKVPGNEARLKAFSTCGSHVCVILVFYIPGMFSFLTHRFGHHVPHHVHVLAILYRL

VPPALNPLVYRVKTQKIHQ

>sp|Q8NH53|052N1\_HUMAN Olfactory receptor 52N1 OS=Homo sapiens GN=OR52N1 PE=3 SV=1  
MSFLNGTSLTPASFILNGIPGLEDVHLWISFPLCTMYSIAITGNFGLMYLIYCDEALHRP  
MYVFLALLSFTDVLCTSTLPNTLFILWNLKEIDFKACLAQMFFVHTFTGMESGVLMLM  
ALDHCVAICFPLRYATILTNSVIAKAGFLTFLRGVMLVIPSTFLTKRLPYCKGNVIPHTY  
CDHMSVAKISCGNVRVNAIYGLIVALLIGGFDILCITISYTMILQAVVSLSSADARQKAF  
STCTAHFCAIVLTYVPAFFTFFTHHFGGHTIPLHIHIIMANLYLLMPPTMNPPIVYGVKTR  
QVRESVIRFFLKGKDNSHNF

>sp|Q8NGI2|052N4\_HUMAN Olfactory receptor 52N4 OS=Homo sapiens GN=OR52N4 PE=2 SV=2  
MLTLNKTDLIPASFILNGVPGLEDQLWISFPFCSMYVVMVGNCGLLYLIHYEDALHKP  
MYYFLAMLSTDLVMCSSTIPKALCIFWFHLKDIGFDECLVQMFFTHFTGMESGVLMLM  
ALDRYVAICYPLRYSTILTNPVIAKVGATFLRGVLLIIPFTFLTKLLPYCRGNILPHTY  
CDHMSVAKLSCGNVKNVNAIYGLMVALLIWGFDILCITNSYTMILRAVVSLSADARQKAF  
NTCTAHICAIVFSYTPAFFSFFSHRFGHEIIPPSCHIIIVANIYLLLPTMNPPIVYGVKTK  
QIRDCVIRILSGSKDTKSYSM

>sp|Q8NGF1|052R1\_HUMAN Olfactory receptor 52R1 OS=Homo sapiens GN=OR52R1 PE=3 SV=2  
MVLASGNSSSHPVSFILLGIPGLESFQLWIAFPFCATYAVAVVGNITLLHVIRIDHTLHE  
PMYFLAMLAITDLVLSSTQPKMLAIFWFHAHEIQYHACLIQVFFIHAFSSVESGVLMA  
MALDCYVAICFPLRHSSILTPSVVIKLTIVMLRGLLWVSPFCFMVSRMPFCQHQAIPQS  
YCEHMAVLKLVCAOTSISRGNGLFVAFSVAGFDMIVIGMSYVMILRAVLQLPSGEARLKA  
FSTRSSHICVILALYIPALFSFLTYRFGHDVPRVVHILFANLYLLIPMLNPIIYGVRTK  
QIGDRVIQGCCGNIP

>sp|Q8NGI8|05AN1\_HUMAN Olfactory receptor 5AN1 OS=Homo sapiens GN=OR5AN1 PE=2 SV=1  
MTGGGNITEITYFILLGFSDFPRIKVLFTIFLVIYITSLAWNLSLIVLIRMDSHLHTPM  
YFFLSNLSFIDVCYISSTVPKMLSNLLQEQQTITFVGCIQYFIFSTMGLSESCMTAMA  
YDRYAAICNPLLYSSIMSPTLCVWMVLGAYMTGLTASLFQIGALLQLHFCGSNVIRHFFC  
DMPQLLILSCTDTFFVQVMTAILTMFFGIASALVIMISYGYIGISIMKITSAGRSKAFN  
TCASHLTAVSLFYTSIGFVYLSSSSGGSSSFDRFASVFTVVIPMLNPLIYSLRNKEIKD  
ALKRLQKRKCC

>sp|Q8NGF4|05AP2\_HUMAN Olfactory receptor 5AP2 OS=Homo sapiens GN=OR5AP2 PE=2 SV=1  
MRLMKEVRGRNQTEVTEFLLLGLSDNPDQLGVLFALFLLIYMANVMGNLGMIVLIKIDLC  
LHTPMYFFLSSLSFVDASYSSSVTPKMLVNLMAENKAISFHGCAQFYFFGSFLGTECF  
LAMMAYDRYAAIWNPLLYPVLVSGRICFLLIATSFLAGCGNAIHTGMTFRLSFCGSNRI  
NHFYCDTPPLKLSCSDTHFNIGIVIMAFSSFIVISCMIVLISYLCIFIAVLKMPSEGR  
HKAFSTCASYLMAVTIFFGTILFMYLRPTSSYSMEQDKVSVFYTVIIPVLNPLIYSLKN  
KDVKKALKKILWKHIL

>sp|Q8NGP9|05AR1\_HUMAN Olfactory receptor 5AR1 OS=Homo sapiens GN=OR5AR1 PE=3 SV=1  
MDKENSSMVTEFIFMGITQDPQMEIIFVVFLLIVLVNVVGNIGMIILITDTQLHTPMY  
FFLCNLSFVDLGYSIAIPRLADFLTNNKVISFSSCATQFAFFVGVFDAECYVLAAMAY  
GRFVAICRPLHYSTFMSKQVCLALMLGSYLAGLVSLVAHTTLTFSLSYCGSNIINHFFCE  
IPPLLALSCSDTYISEILLFSLCGFIEFSTILIIFISYTFILVAIIRMRSAEGRKAFST  
CGSHLTGITLFYGTVMFMYLRPTSSYSLDQDKWASVFTVVIIPMLNPLIYSLRNKDVKAA  
FKKLIGKKSQ

>sp|A6NJZ3|06C65\_HUMAN Olfactory receptor 6C65 OS=Homo sapiens GN=OR6C65 PE=2 SV=1



MPNMTSIREFILLGFTDNPELQVVIFFMLITYLLSVSGNMIIIMLTLSNIHLKTPMYFF  
LRNFSFLEISFTTVFIPRFLINIATGDTTISYNASMAQVFFLILLGSTEFFLLAVMSYDR  
YVAICKPLHYTTIMSNKVCNWLVISSWLAGFLIIFPPVIMGLQLDFCDSSTIDHFCDS  
PMLLIACDTDTQFLELMAFLAVFTLMVTLALVVLSYTLILKTILKIPSAQQRKKAFSTCS  
SHMIVSVSYGSCIFMCVKTSAKEGMALSKGVAVLNTSVAPMLNPFITYTLRNQQVKQALR  
EFTKKILSLNKQ

>sp|A6NM76|O6C76\_HUMAN Olfactory receptor 6C76 OS=Homo sapiens GN=OR6C76 PE=3 SV=1  
MKNRTSVTDFILLGLTDPQLQVVFISFLFLTYVLSVTGNLTIIISLTLLDShLKTTPMYFF  
LRNFSLEISFTSVCNPRFLISILTGDKSISYNACAAQLFFFIFLGSTEFFLLASMSYDCY  
VAICKPLHYTTIMSDRICYQLIISSWLAGFLVIFPPLAMGLQLDFCDSNVIDHFTCDSAP  
LLQISCTDTSTLELMSFILALFTLISTLILVILSYTYIIIRTLRIPSAQQRKKAFSTCSS  
HVIVSVISYGSCIFMYVKTSAKEGVALTKGVAILNTSVAPMLNPFITYTLRNQQVKQAFKD  
VLRKISHKKKKH

>sp|Q86UD1|OAF\_HUMAN Out at first protein homolog OS=Homo sapiens GN=OAF PE=2 SV=1  
MRLPGVPLARPALLLLPLAPLLGTGAPAE LRVRVRLPDGQVTEESLQADSDADSISLE  
LRKPDGTLVSFTADFKKDVKVFRALILGELEKGQSQFQALCFVTQLQHNEIIPSEAMAKL  
RQKNPRAVRQAEEVRGLEHLHMDVAVNFSQGALLSPHLHNCAEAVDAIYTRQEDVRFWL  
EQGVDSVFEALPKASEQAELPRCRQVGDHGKPCVCRYGLSLAWYPCMLKYCHSRDRPTP  
YKCGIRSCQKSYSFDFYVPQRQLCLWDEDPYPG

>sp|P00973|OAS1\_HUMAN 2'-5'-oligoadenylate synthase 1 OS=Homo sapiens GN=OAS1 PE=1 SV=4  
MMDLRNTPAKSLDKFIEDYLLPDTCFRMQINHAIDIICGFLKERCFRGSSYPVCVSKVVK  
GGSSGKGTTLRGRSDADLVVFLSPLTTTFQDQLNRRGEFIQEIRRQLEACQRERAFSVKFE  
VQAPRWGNPRALSFLVSSLQLEGVEFDVLPAPFDALGQLTGGYKPNPQIYVKLIECTDL  
QKEGEFSTCFTELQRDFLKQRPTKLKSLIRLVKHWYQNCCKKLGLPPQYALELLTVYAW  
ERGSMTHTFNTAQGFRTVLELVINYQQLCIYWKYYDFKNPIIEKYLRRLTKPRPVILD  
PADPTGNLGGDPKGWRQLAQEAELNYPCKNWDGSPVSSWILLAESNSADDETDPR  
RYQKYGYIGTHEYPHFSHRPSTLQAASTPQAEEDWTCTIL

>sp|P29728|OAS2\_HUMAN 2'-5'-oligoadenylate synthase 2 OS=Homo sapiens GN=OAS2 PE=1 SV=3  
MGNGESQLSSVPAQKLGWFIQEYLPYEECQTLIDEMVNTICDVLQEPEQFPLVQGAIG  
GSYGRKTVLRGNSDGLVLFSDLKQFQDQKRSQRDILDKTGDKLKFCFLTQWLKNNFEI  
QKSLDGFTIQVFTKNQRISFEVLAAFNALSLNDNPSPWIYRELKRSLDKTNASPGFAVC  
FTELQKFFDNRPGLKDLILLIKHWHQQCQKKIKDLPSLSPYALELLTVYAWEQGCRKD  
NFDIAEGVRTVLELICKQEKLCIYWMVNYNFEDETIRNILLHQLSARPVILDPVDPTNN  
VSGDKICWQWLKKEAQTWLTSPNLDNELPAPSWNVLPAPLFTTPGHLLDKFIKEFLQPNK  
CFLEQIDSAVNIIRTLKENCFRQSTAKIQIVRGGSTAKGTALKTGSDADLVVFHNSLKS  
YTSQKNERHKIVKEIHEQLKAFWREKEEELEVSFEPPKWKAPRVLFSLSKSVLNESVSF  
DVLPAFNALGQLSSGSTPSPEVYAGLIDLYKSSDLPGGEFSTCFTVLQRNFIRSRPTKLK  
DLIRLVKHWYKECERKLKPKGSLPPKYALELLTIYAWEQSGVPDFDTAEGFRTVLELVT  
QYQQLCIFWKVNYNFEDETVRKFLLSQLQKTRPVILDPAEPTGDVGGDRWCWHLAKEA  
KEWLSSPCFKDGTGNPIPPWKVPTMQTPGSCGARIHPVIVNEMFSSSRSHRILNNSKRNF

>sp|Q9UMX2|OAZ3\_HUMAN Ornithine decarboxylase antizyme 3 OS=Homo sapiens GN=OAZ3 PE=1  
SV=2  
MPCKRCRPSVYSLSYIKRGKTRNYLYPIWSPYAYYLYCYKYRITLREKMLPRCYKSITYK  
EEEDTLQPRSCLQCSESLVGLQEGKSTEQGNHDQLKELYSAGNLTVLATDPLLHQDPVQ

LDFHFRLTSQTSAHWHGLLCDRRFLDIPYQALDQGNRESLTATLEYVEEKTNVDSVFVN  
FQNDNRDRGALLRAFSYMGFEVVRPDHPALPPLDNVIFMVYPLERDVGHLPSEPP

>sp|Q56VL3|OCAD2\_HUMAN OCIA domain-containing protein 2 OS=Homo sapiens GN=OCIA2 PE=1  
SV=1

MASASARGNQDKDAHFPSPSKQSLLFCPKSKLHHRAEISKIMRECQEESFWKRALPFSL  
VSMLVTQGLVYQGYLAANSRFGSLPKVALAGLLGFGLGKVSIGVCQSKFHFEDQLRGA  
GFGPQHNRHCLLTCEECKIKHGLSEKGSQPSAS

>sp|Q9UKG9|OCTC\_HUMAN Peroxisomal carnitine 0-octanoyltransferase OS=Homo sapiens GN=CROT  
PE=1 SV=2

MENQLAKSTEERTFQYQDSLPSLPVPSLEESLKKYLESVKPFANQEEYKTEEIVQKFQS  
GIGELHQLLERAKGKRNWLEEWLNVAYLDVRIPSQLNVNFAGPAAHFEHYWPPKEGT  
QLERGSITLWHNLNYQLLRKEKVPVHKVGNTPLDMNQFRMLFSTCKVPGITRDSIMNYF  
RTESEGRSPNHIVLCRGRAVFDVIHEGCLVTPPELLRQLTYIHKCHSEPDGPGIAAL  
TSEERTRWAKAREYLIGLDPENLALLEKIQSSLLVYSMEDSSPHVTPEDYSEIIAAILIG  
DPTVRWGDKSYNLISFSNGVFGCNCDHAPFDAMIMVNISYYVDEKIFQNEGRWKGSEKVR  
DIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTSFGKKLTKNKMLHPDTFI  
QLALQLAYYRLHGHGCCYETAMTRHFYHGRGTETMRSCVEAVRWCQSMQDPSVNLRRERQ  
QKMLQAFAKHNKMMKDCSAGKGFRHLLGLLLIAKEEGLVPPELFTDPLFSKSGGGGNFV  
LSTSLVGYL RVQGVVPMVHNGYGFYHIRDDRFVVACSAWKSCPETDAEKLVLTFCAF  
HDMIQLMNSTHL

>sp|P11182|ODB2\_HUMAN Lipoamide acyltransferase component of branched-chain alpha-keto  
acid dehydrogenase complex, mitochondrial OS=Homo sapiens GN=DBT PE=1 SV=3

MAAVRMLRTWSRNAGKLICVRYFQTCGNVHVLKPNYVCFGYPSPFKYSHPHFLKTTAAL  
RGQVVQFKLSDIGEGIREVTVKEVYVKEGDTVSVQFDSICEVQSDKASVTITSRYDGVKK  
LYYNLDDIAYVGKPLVDIETEALKDSEEDVVETPAVSHDEHTHQEIKGRKTLATPAVRRL  
AMENNIKLSVVSGSGKDGRILKEDILNYLEKQTGAILPPSPKVEIMPPPPKPKDMTPIL  
VSKPPVFTGDKTEPIKGFQKAMVKTMSAALKIPHFGYCDEIDLTELVKLREELKPIAFA  
RGIKLSFMPFFLKAASLGLLQFPILNASVDENCQNITYKASHNIGIAMDTEQGLIVPNVK  
NVQICSIFDIATELNRLQKLGSVGQLSTTDLTGGTFTLSNIGSIGGTFAPVIMPPEVAI  
GALGSIKAIPRFNQGEVYKAQIMNVSW SADHRVIDGATMSRFSNLWKSYLENPAFMLLD  
LK

>sp|Q9ULJ1|ODF2L\_HUMAN Outer dense fiber protein 2-like OS=Homo sapiens GN=ODF2L PE=2  
SV=2

MEKAVNDGSHSEELFCHLKTISEKEDLPCTSESHLSCLKQDILNEKTELEATLKEAELV  
THSVELLLPLFKDTIEKINFENANLSALNLKISEQKEILIKELDTFKSVKLALEHLLRKR  
DYKQTGDNLSMMLLENLTDNESENTNLKKVFEKEAHIQELSCLFQSEKANTLKANRFSQ  
SVKVVERLQIQIHKREAENDKLKEYVKSLETKIAKWNLQSRMNKNEAIVMKEASRQKTV  
ALKKASKVYKQRLDHTGAIEKLTSQIRDQEAKLSETISASNAWKSHYEKIVIEKTELEV  
QIETMKKQIINLLEDLKKMEDHGKNSCEEILRKVHSIEYENETLNLENTKLKLRFPKRIT  
ESKNMNILIVLDMLCYISSEKTTLAALKDEVSVENELSELQEVEKKQKTLIEMYKTQVQ  
KLQEA AEIVKSRCE NLLHKNNQITKTKNKNVEKMRGQMESH LKELERVCD SLTAAERRLH  
ECQESLQCKGKCADQEHTIRELQGQVDGNHNLTKLSLEEENCLIQ LKCNLQQKLEQM  
DAENKELEKKLANQEELKHSNLKFEKSAEYTALARQLEAALEGRQKVAEEIEKMSSR  
ESALQIKILDLETEL RKKNEEQNLVCKMNSDPETP

>sp|P10515|ODP2\_HUMAN Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial OS=Homo sapiens GN=DLAT PE=1 SV=3

MWRVCARRAQNVPWAGLEARWTALQEVPGTPRVTSRSGPAPARRNSVTTGYGGVRALCG  
WTPSSGATPRNRLLLQLLGSPGRRYSLPPHQKVPLPSLSPTMQAGTIARWEKKEGDKIN  
EGDLIAEVETDKATVGFESLEECYMAKILVAEGTRDVPIGAIICITVGKPEDIEAFKNYT  
LDSSAAPTQAAPAPTPAATASPTPSAQAPGSSYPHMQVLLPALSPMTMTGTVQRWEK  
KVGEKLSEGDLLAEIETDKATIGFEVQEEGYLAKILVPEGTRDVPLGTPLCIIVEKEADI  
SAFADYRPTVETDLKPQVPPPTPPVAAVPPTPQPLAPTPSAPCPATPAGPKGRVFSPL  
AKKLAVEKGIDLTQVKGTGPDGRITKKDIDSFVPSKVAPAPAAVPPTPGPGMAPVPTGVF  
TDIPI SNIRRVIAQRLMQSKQTI PHYYSIDVNMGEVLLVRKELNKILEGRSKISVNDFI  
IKASALACLKVPEANSSWMDTVIRQNHVVDVSVAVSTPAGLITPIVFNHAIKGVETIAND  
VVSLATKAREGKLQHEFQGGTFTISNLGMFGIKNFSAIINPPQACILAIGASEDKLVPA  
DNEKGFDVASMMSVTLSCDHRVVDGAVGAQWLAEFRKYLEKPITMLL

>sp|P08559|ODPA\_HUMAN Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial OS=Homo sapiens GN=PDHA1 PE=1 SV=3

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTRD  
GLKYRRMMQTVRRMELKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRA  
HGFTFTRGLSVREILAELTGRKGGCAKGKGGSMHMYAKNFYGGNGIVGAQVPLGAGIALA  
CKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENNRYGMGTSVERAAAST  
DYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGPILMELQTYRYHGHSMSPGVS  
YRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPP  
LEELGYHIYSSDPPFEVRGANQWIKFKSVS

>sp|076000|OR2B3\_HUMAN Putative olfactory receptor 2B3 OS=Homo sapiens GN=OR2B3 PE=3 SV=1

MNWECESSPKEFILLGFSDRAWLQMPLFVVLLISYTTITIFGNVSIMMVCILDPKLHTPMY  
FFLTNLSILDLCYTTTVPHMLVNIGCNKKTISYAGCVAHLIIFLALGATECLLLAVMSF  
DRYVAVCRPLHYVVMNYWFCLRMAAFSWLIGFGNSVLQSSLTLNMPRCGHQEVDFHFFCE  
VPALLKLSCADTKPIEAELFFFSVLILLIPVTILISYGFIAQAVLKIRSAEGRQKAFGT  
CGSHMIVVSLFYGTAIYMYLQPPSSTSKDWGKMVSLFYGIITSMLNSLIYSLRNKDMKEA  
FKRLMPRIFFCKK

>sp|P59922|OR2B8\_HUMAN Putative olfactory receptor 2B8 OS=Homo sapiens GN=OR2B8P PE=5 SV=1

MDQKNGSSFTGFILLGFSDRPQLELVLFVLLIFYIFTLLGNKTIIVLSHLDPHLHTPMY  
FFFSNLSFLDLCYTTGIVPQLLVNLRGADKSISYGGCVVQLYISLGLGSTECVLLGVMVF  
DRYAAVCRPLHYTVVMHPCLYVLMASWSWIGFANSLLQTVLILLTLTCGRNKLEHFLCE  
VPPLLKLACVDTTMNESELFFVSVIILLVPVALIIFSYSQIVRAVMRIKLATGQRKVFGT  
CGSHLTVVSLFYGTAIYAYLQPGNNYSQDQGKFISLFYTIITPMINPLIYTLRNKDVKGA  
LKKVLWKNYDSR

>sp|Q9H210|OR2D2\_HUMAN Olfactory receptor 2D2 OS=Homo sapiens GN=OR2D2 PE=2 SV=4

MRQINQTVTEFLLGLSDGPHTQLLFIVLLGVYLVTVLGNLLISLVHVDSQLHTPMY  
FFLCNLSLADLCFSTNIVPQALVHLLSRKKVIAFTLCAARLLFFLIFGCTQCALLAVMSY  
DRYVAICNPLRYPNIMTWKVCVQLATGSWTSGILVSVVDTTFILRLPYRGSNSIAHFFCE  
APALLILASTDTHASEMAIFLMGVVILLIPVFLILVSYGRIIVTVVKMKSTVGLKAFST  
CGSHLMVVILFYGSAIITYMTPKSSKQKEKSVSVFYAIVTPMLNPLIYSLRNKDVKAALR  
KVATRNP

>sp|095006|OR2F2\_HUMAN Olfactory receptor 2F2 OS=Homo sapiens GN=OR2F2 PE=2 SV=1  
MEIDNQTWVREFILLGLSSDWCTQISLFSFLVLYMTVLGNCLIVLLIRLDSRLHTPMY  
FFLTNLSLVDVSYATSVVPQLLAHFLAEHKAIPFQSCAAQLFFSLALGGIEFVLLAVMAY  
DRHVAVSDRLRYSAIMHGGLCARLAITSWVSGSINSLVQTAITFQLPMCTNKFIDHISCE  
LLAVVRLACVDTSNEAAIMVSSIVLLMTPFCLVLLSYIRIISTILKIQSREGRKKAFHT  
CASHLTVVALCYGTTIFTYIQPHSGPSVLQEKLISVFYAIVMPLLNPIYSLRNKEVKGA  
WHKLEKFSGLTSKLG

>sp|Q8NGZ4|OR2G3\_HUMAN Olfactory receptor 2G3 OS=Homo sapiens GN=OR2G3 PE=2 SV=1  
MGLGNESSLMDFILLGFSDHPRLEAVLFVFLFFYLLTLVGNFTIIIIISYLDPLHTPMY  
FFLSNLSLLDICFTTSLAPQTLVNLQRPKKTITYGGCVAQLYISLALGSTECILLADMAL  
DRYIAVCKPLHYVIMNPRLCQQLASISWLSGLASSLIHATFTLQLPLCGNHRLDHFICE  
VPALLKLACVDTTVNELVLFVVSFLVIPPALISISYGFITQAVLRIKSVEARHKAFST  
CSSHLTVVIFYGTIIYVYLQPSDSYAQDQGKFISLFYTMVTPTLNPIIYTLRNKDMKEA  
LRKLLSGKL

>sp|Q9GZK4|OR2H1\_HUMAN Olfactory receptor 2H1 OS=Homo sapiens GN=OR2H1 PE=2 SV=1  
MVNQSSPMGFLLLGFSEHPALERTLFVVVFTSYLLTLVGNTLIILLSVLYPRLHSPMYFF  
LSDSLFDLDCFTTSCVPQMLVNLWGPKKTISFLGCSVQLFIFLSLGTTECILLTVMAFDR  
YVAVCQPLHYATIIHPRLCWQLASVAWVMSLVQSIVQTPSTLHLPFCPHQQIDDFLCEVP  
SLIRLSCGDTSYNEIQLAVSSVIFVVVPLSLILASYGATAQAVLRINSATAWRKAFGTCS  
SHLTVVTLYFSSVIAVYLQKPNPYAQGRGKFFGLFYAVGTPSLNPLVYTLRNKEIKRALR  
RLGKERDSRESWRAA

>sp|Q9GZK6|OR2J1\_HUMAN Olfactory receptor 2J1 OS=Homo sapiens GN=OR2J1 PE=3 SV=2  
MLMKKNASFEDFLLGFSNWPHEVVLFFVILIFYLITLIGNLFIIILLSYLDLHHTPM  
YFFLSNLSFLDLCTTSSIPQLLVNLWGPEKTISYAGCTVQLYFVLALGTAECVLLVMS  
YDRYAAVCRPLHYTVLMHPRFCRLAAASWVSGFTTSALHSSFTFWIPLCRHRLVDHFFC  
EVPALLRLSCVDQANELTLMVMSSIFVLIPLILILTSYGAIARAVLSMQSTTGLQKVL  
TCGAHLMVVSLLFFIPVMCMYLQPPSENSQDQGFIALFYTVVTPSLNPLIYTFRNKDVRG  
AVKRLMGWEWGM

>sp|076001|OR2J3\_HUMAN Olfactory receptor 2J3 OS=Homo sapiens GN=OR2J3 PE=1 SV=1  
MNDDGKVNASSEGYFILVGFSNWPHEVIFVVVILIFYLMTLIGNLFIIILLSYLDLHHT  
PMYFFLSNLSFLDLCTTSSIPQLLVNLWGPEKTISYAGCMIQLYFVLALGTTECVLLV  
MSYDRYAAVCRPLHYTVLMHPRFCHLLAVASWVSGFTNSALHSSFTFWVPLCGHRQVDHF  
FCEVPALLRLSCVDTHVNELTMITSSIFVLIPLILILTSYGAIVRVLRMQSTTGLQKV  
FGTCGAHLMVVSLLFFIPAMCIYLQPPSGNSQDQGFIALFYTVVTPSLNPLIYTLRNKV  
RGAVKRLMGWE

>sp|043869|OR2T1\_HUMAN Olfactory receptor 2T1 OS=Homo sapiens GN=OR2T1 PE=3 SV=3  
MWQEYYFLNVFFPLLVKCLTINSHVVILLPWEYHLIWKILPYIGTTVGSMEEYNTSST  
DFTFMGLFNRKETSGLIFAIISIIFFTALMANGVMIFLIQTDLRLHTPMYFLLSHLSLID  
MMYISTIVPKMLVNYLLDQRTISFVGCTAQHFYLLTVGAEFFLLGLMAYDRYVAICNPL  
RYPVLSRRVCWMIAGSWFGGSLDGFLTPITMSFPFCNSREINHFFCEAPAVLKLACA  
DTALYETVMYVCCVLMMLIPFSVVLASYARILTTVQCMSSVEGRKKAFATCSSHMTVVSL  
FYGAAMYTYMLPHSYHKPAQDKVLSVFYITLTPMLNPLIYSLRNKDVGTGALKRALGRFGK  
PQRVSGGVF

>sp|Q8NHB1|OR2V1\_HUMAN Olfactory receptor 2V1 OS=Homo sapiens GN=OR2V1 PE=3 SV=2

MGRWVNQSYTDGFFLLGIFSHSQTDLVLFSAVMVFTVALCGNVLLIFLIYLDAGLHTPM  
YFFLSQLSLMDLMLVCNIVPKMAANFLSGRKSISFVGCGIQIGFFVSLVSGEGLLLGLMA  
YDRYVAVSHPLHYPILMNQRVCLQITGSSWAFGIIDGVIQMVAAAGLPYCGSRSDHFFC  
EVQALLKLACADTSLFDTLFACCVFMLLLPFSIIMASYACILGAVLRIRSAQAWKKALA  
TCSSHLTAVTLFYGAAMFMYLRPRRYRAPSHDKVASIFYTVLTPMLNPLIYSLRNGEVMG  
ALRKGLDRCRIGSQH

>sp|Q9Y3N9|OR2W1\_HUMAN Olfactory receptor 2W1 OS=Homo sapiens GN=OR2W1 PE=2 SV=1  
MDQSNYSSLHGFILLGFSNHPKMEMILSGVVAIFYLITLVGNTAIILASLLDSQLHTPMY  
FFLRNLSFLDLCFTTSIIPQMLVNLWGPDKTISYVGCIIQLYVYMWLGSVECLLLAVMSY  
DRFTAICKPLHYFVVMNPHLCLKMIIMIWSISLANSVVLCTLTNLPTCGNNILDHFLCE  
LPALVKIACVDTTVEMSVFALGIIIVLTPLILILISYGYIAKAVLRTKSKASQRKAMNT  
CGSHLTVVSMFYGTIIYMYLQPGNRASKDQGKFLTIFYTVITPSLNPLIYTLRNKDMKDA  
LKKLMRFHHKSTKIKRNCKS

>sp|A6NFC9|OR2W5\_HUMAN Putative olfactory receptor 2W5 OS=Homo sapiens GN=OR2W5 PE=5 SV=1  
MGKDNASYLQAFILVGSSDRPGLEKILFAVILIFCILTIVGNTAIILLVMDVRLHTPMY  
FFLGNLSFLDLCFTASIAPQLLWNLGGPEKTITYHGCVAQLYIYMWLGSTECVLLVVMSh  
DRYVAVCRSLHYMAVMRPHLCLQLVTVAWCCGFLNSFIMCPQTMQLSRCGRRRVDFHFLCE  
MPALIAMSCEETMLVEAIHLCPGGGSPGAALPHPHLLWRDCSRGAEDVSSRAKESLPH  
LLFSPHSGLSLLRNHHLRVPEAGQQLPRSGEVPDSSLHHRHSQHQPPLHFEEQGCEGD  
HEETSGVGERGWGASTRGT

>sp|Q8NG97|OR2Z1\_HUMAN Olfactory receptor 2Z1 OS=Homo sapiens GN=OR2Z1 PE=2 SV=1  
MGDVNQSVASDFILVGLFSHSGSRQLLFSLVAVMFVIGLLGNTVLLFLIRVDSRLHTPMY  
FLLSQLSLFDIGCPMVTIPKMASDFLRGEGATSYGGGAAQIFFLTLMGVAEGVLLVLSY  
DRYVAVCQPLQYPVLMRRQVCLLMGSSWVVGVLNASIQTSITLHFPYCASRIVDHFFCE  
VPALLKLSCADTCAYEMALSTSGVLILMLPLSLIATSYGHVLQAVLSMRSEEARHKAVTT  
CSSHITVVGLFYGAAVFMYMPCAYHSPQQDNVVSIFYSLVTPTLNPLIYSLRNPEVWMA  
LVKVLSRAGLRQMC

>sp|Q8NGF9|OR4X2\_HUMAN Olfactory receptor 4X2 OS=Homo sapiens GN=OR4X2 PE=2 SV=1  
MTEFIFLVLPNQEVQRVCVIFLFLYTAIVLGNFLIVLTVMTSRSLGSPMYFFLSYLSF  
MEICYSSATAPKLISDLLAERKVISWWGCMAQLFFLHFFGGTEIFLLTMAYDHYVAICK  
PLSYTTIMNWQVCTVLVGIWVGGMHSFAQILLIFHLLFCGPNVINHYFCDLVPLLKLA  
CSDTFLIGLLIVANGGTLVSIFGVLLASYMVILLHLRTWSSEGWCKALSTCGSHFAVVI  
LFFGPCVFNSLRPSTTLPIDKMVAVFYTVITAILNPVIYSLRNAEMRKAMKRLWIRTLRL  
NEK

>sp|Q8NGR4|OR5C1\_HUMAN Olfactory receptor 5C1 OS=Homo sapiens GN=OR5C1 PE=2 SV=1  
MNSENLTRAAPAEFVLLGITNRWDLRVALFLTCLPVYLVSLGNMGMAILLIRMDARLH  
TPMYFFLANLSLLDACYSIAIGPKMLVDLLLPRATIPYTACALQMFVFAGLADTECCLLA  
AMAYDRYVAIRNPLLYTTAMSQRCLALLGASGLGGAFAVHTTLTFRLSFCSRKINS  
FFCDIPPLLAISCDTSLNELLFAICGFIQTATVLAITVSYGFIAGAVIHMRVSGSRR  
AASGGSHLTAVAMMYGTLIFMYLRPSSSYALDTDKMASVFYTLVIPSLNPLIYSLRNKE  
VKEALRQTWSRFHCPGQGSQ

>sp|Q8NGK9|OR5D6\_HUMAN Olfactory receptor 5D16 OS=Homo sapiens GN=OR5D16 PE=3 SV=1  
MFLTERNTTSEATFTLLGFSLEYELQIPLFFVFLAVYGFVVGNLGMIVIIKINPKLHTP  
MYFFLNHLSFVDFCYSSIIAPMMLVNLVVEDRTISFSGCLVQFFFFCTFVVTELILFAVM

AYDHFVAICNPLLYTVAISQKLCAMLVVVLAWGVACSLTLACSALKLSFHGFNTINHFF  
CELSSLISLSYPDSYLSQLLLFTVATFNEISTLLIILTSYAFIIVTTLKMPASGHRKVF  
STCASHLTAITIFHGTLILFLYCVPNKSNRHTVKVASVFYTVVIPLLNPLIYSLRNKDVK  
DAIRKIINTKYFHIKHRHWYPNPFVIEQ

>sp|Q6IEU7|OR5MA\_HUMAN Olfactory receptor 5M10 OS=Homo sapiens GN=OR5M10 PE=2 SV=1  
MLSPNHTIVTEFILLGLTDDPVLEKILFGVFLAIYLLITLAGNLCMILLIRTNSQLQTPMY  
FFLGHLSFVDICYSSNVTNMLHNFLSEQKTISYAGCFTQCLLFIALVITEFYFLASMAL  
DRYVAICSPLHYSSRMSKNICISLVTVPYMYGFLNGLSQTLLTFHLSFCGSLEINHFYCA  
DPPLIMLACSDTRVKKMAMFVAVAGFTLSSSLFIILLSYLFIFAAIFRIRSAEGRHKAFST  
CASHLTIVTLFYGTILFCMYVRPPSEKSVEESKIIAVFYTFLSPMLNPLIYSLNRNDVILA  
IQQMIRGKSFCKIAV

>sp|Q95007|OR6B1\_HUMAN Olfactory receptor 6B1 OS=Homo sapiens GN=OR6B1 PE=2 SV=1  
MELENQTRVTKFILVGFPGLSMRAAMFLIFLVAYILTVAENVIIILLVLQNRPLHKPMY  
FFLANLSFLETWYISVTPKLLFSFWSVNNSISFTLCMIQLYFFIALMCTECVLLAAMAY  
DRYVAICRPLHYPTIMSHGLCFRLALGWSAIGFISLAKIYFISCLSFCGPNVINHFFCD  
ISPVLNLSCTDMSITELVDFILALVIFLPLFITVLSYGCILATILCMPTGKQKAFSTCA  
SHLVVVTIFYSAIFMYARPRVIAHAFNMNKIISIFYAIVTPSLNPFYICLRNREVKEALK  
KLAYCQASRSD

>sp|Q9NZP0|OR6C3\_HUMAN Olfactory receptor 6C3 OS=Homo sapiens GN=OR6C3 PE=3 SV=2  
MNHTMVTEFVLLGLSDPDQLIVIFLFLFITYILSVTGNLTIITLTFVDSHLQTPMYFFL  
RNFSLFLEISFTTVCIPRFLGAIITRNKTISYNNCAAQLFFFIFMGVTEFYILTAMSVDY  
VAICKPLHYTSMNRKLCTLLVLCWLSGFLTIFPPLMLLLQLDYCASNVIDHFACDYFP  
LLQLSCSDTWLLEVIGFYFALVTLFTLALVILSYMYIIRTLRIPSASQRKKAFSTCSS  
HMIVISISYSGSCIFMYANPSAKEKASLTGIAILNTSVAPMLNPFYITLRNQVQKQAFKN  
VVHKVVFYANQ

>sp|Q8NGY2|OR6K2\_HUMAN Olfactory receptor 6K2 OS=Homo sapiens GN=OR6K2 PE=2 SV=1  
MESPNRTTIQEFIFSAPFYSWVKSVCVPLLLFIYAFIVGNLVIITVVQLNTHLHTPMY  
TFISALSFLEIWTATIPKMLSSLSERSISFNGCLLMYFFHSTGICEVCLLTVMAFD  
HYLAICSPHYPIMTPKLCTQLTLSCCVCGFITPLPEIAWISTLPFCGSNHLEHIFCDF  
LPVLRDLACTDTRAIVMIQVVDVIHAVEIITAVMLIFMSYDGIVAVILRIHSAGGRRTAFS  
TCVSHFIVFSLFFGSVTLMYLRFSATYSFLWDIAIALAFVLSPPFNPIIYSLRNKEIKE  
AIKKHIGQAKIFFSVRPGTSSKIF

>sp|Q15622|OR7A5\_HUMAN Olfactory receptor 7A5 OS=Homo sapiens GN=OR7A5 PE=2 SV=2  
MEPGNDTQISEFLLGFSQEPGLQPFLFGLFLSMYLVTVLGNLLIILATISDSHLHTPMY  
FFLSNLSFADICVTSTTIPKMLMNIQTQNKVITYIACLMQMYFFILFAGFENFLSVMAY  
DRFVAICHPLHYMVIMNPHLCGLLVLASWTMSALYSLLQILMVVRLSFCTALEIPHFFCE  
LNQVIQLACSDSFLNHMVIYFTVALLGGGPLTGILYSYSKIISSIHAISSAQGKYKAFST  
CASHLSVVSLFYGAILGVYLSAATRNSHSSATASVMYTVVTPMLNPFYIYSLRNKDIKRA  
LGIHLLWGTMGQFFKKCP

>sp|O60412|OR7C2\_HUMAN Olfactory receptor 7C2 OS=Homo sapiens GN=OR7C2 PE=3 SV=4  
MERGNQTEVGNFLLGFAEDSDMQLLLHGLFLSMYLVTTIGNLLIILTISDSHLHTPMY  
FFLSNLSFADICFTSTTVPKMLVNIQTQSKMITFAGCLTQIFFFIAFGCLDNLLLTMTAY  
DRFVAICYPLHYTVIMNPRLCGLLVLSWCISVMGSLLETILTILRLSFCTNMEIPHFFCD  
PSEVLKLACSDTFINNIVMYFTIVLGVFPLCGILFSYSQIFSSVLRVSARGQHKAFTSC

GSHLSVVSFLFYGTGLGVYLSSAVTPPSRTSLAASVMYTMVTPMLNPFIIYSLRNKDMKGS  
LGRLLLRATSLKEGTIAKLS

>sp|Q8NG95|OR7G3\_HUMAN Olfactory receptor 7G3 OS=Homo sapiens GN=OR7G3 PE=3 SV=1  
MKAGNFSDTPEFFLLGLSGDELQPIFLFMLSMLATMLGNLLIILAVNSDSLHTPMY  
FLLSILSLVDICFTSTTMPKMLVNIQAQASINYTGCLTQICFVLVFGLENGILVMAY  
DRFVAICHPLRYNVIMNPKLCGLLLLLSFIVSVLDALLHTLMVLQLTFCIDLEIPHFFCE  
LAHILKLACSDVLINNILVYLVTSLLGVVPLSGIIFSITRIVSSVMKIPSAGGKYKAFSI  
CGSHLIVVSLFYGTGFGVYLSSGATHSSRKGAIASVMYTVVTPMLNPLIYSLRNKDMKAL  
LRKLISRIPSFH

>sp|Q8NGG7|OR8A1\_HUMAN Olfactory receptor 8A1 OS=Homo sapiens GN=OR8A1 PE=2 SV=2  
MGFLSPMHPCRPPTQRRMAAGNHSTVTEFILKGLTKRADLQLPLFLLFLGIYLVITVGNL  
GMITLICLNQLHTPMYYFLSNLSMDLCYSSVITPKMLVNFVSEKNIISYAGCMSQLYF  
FLVFVIAECYMLTMAYDRYVAICHPLLYNIIMSHHTCLLLVAVVYAIGLIGSTIETGLM  
LKLPHYCEHLISHYFCDILPLMKLSCSSTYDVEMTVFFSAGFNIIVTSLTVLVSYTFILSS  
ILGISTTEGRSKAFSTCSSHLAAVGMFYGSTAFMYLKPSTISSLTQENVASVFYTTVIPM  
LNPLIYSLRNKEVKAQKTLRGKLF

>sp|Q8WZ84|OR8D1\_HUMAN Olfactory receptor 8D1 OS=Homo sapiens GN=OR8D1 PE=2 SV=1  
MTMENYSMAAQFVLDGLTQQAELQLPLFLLFLGIYVTVVGNLGMILLIAVSPLLHTPMY  
YFLSSLSFVDFCYSSVITPKMLVNFVGKNTILYSECMVQLFFFVVFVVAEGYLLTAMAY  
DRYVAICSPLLYNAIMSSWVCSLLVLAFFLGLSALHTSMMKLSFCKSHIINHFC  
DLPLLLNLSCSNTHLNELLLFIAGFNTLVPTLAVAVSYAFILYSILHIRSEGRSKAFGT  
CSSHLMVAVVIFFGSITFMYFKPPSSNSLDQEKVSSVFYTTVIPMLNPLIYSLRNKDVKKA  
LRKVLVGK

>sp|Q15617|OR8G1\_HUMAN Olfactory receptor 8G1 OS=Homo sapiens GN=OR8G1 PE=2 SV=2  
MSGENNSSVTEFILAGLSEQPELQLPLFLLFLGIYVTVVGNLGMTTLIWLSSHLHTPMY  
YFLSSLSFIDFCHSTVITPKMLVNFVTEKNIISYPECMTQLYFFLVFAIAECHMLAAMAY  
DRYMAICSPLLYSVIISNKACFSLILGVYIIGLVCASVHTGCMFRVQFCKFDLINHYFCD  
LLPLLKLSCSSIYVNKLLILCVGAFNILVPSLTILCSYIFIISILHIRSTEGRSKAFST  
CSSHMLAVVIFFGSAAFMYLQPSISSMDQGVSSVFYTTIIVPMLNPLIYSLRNKDVHVS  
LKKMLQRRTL

>sp|Q8NG78|OR8G5\_HUMAN Olfactory receptor 8G5 OS=Homo sapiens GN=OR8G5 PE=2 SV=2  
MIIYKQGITFLQKENNTIHLNTMFFLSPAETHQMAAENHSFVTKFILVGLTEKSELQL  
PLFLVFLGIYVTVLGNLGMITLIGLSSHLHTPMYCFLLSLSFIDFCHSTVITPKMLVNF  
VTEKNIISYPECMTQLYFFLVFAIAECHMLAAMAYDGYVAICSPLLYSVIISNKACFSLI  
LVVYVIGLICASAHIHCMFRVQFCKFDVINHYFCDLISILKLSCSSTYINELLILIFSGI  
NILVPSLTILSSYIFIISILIRYTEGRSKAFSTCSSHISAVSVFFGSAAFMYLQPSV  
SSMDQGVSSVFYTTIIVPMLNPLIYSLRNKDVHVALKKTGKRTFL

>sp|Q8NGG4|OR8H1\_HUMAN Olfactory receptor 8H1 OS=Homo sapiens GN=OR8H1 PE=2 SV=1  
MGRNNTNVPDFILTGLSDSEEVQMALFILFLIYLITMLGNVGMILIRLDLQLHTPMY  
FFLTHLSFIDLSYSTVITPKTLANLLTSNYISFMGCAQMFFVFLGAAECFLSSMAYD  
RYVAICSPLRYPVIMSKRLCCALVTGPYVISFINSFVNVVMSRLHFCDNSVVRHFFCDT  
SPILALSCMDTYDIEIMIHLAGSTLMVSLITISASYVSILSTILKINSTSGKQKALSTC  
ASHLLGVTIFYGTMIFTYLPKRSYSLGRDQVASVFYTTIIVPMLNPLIYSLRNKEVKNAL  
IRVMQRRQDSR

>sp|Q8N146|OR8H3\_HUMAN Olfactory receptor 8H3 OS=Homo sapiens GN=OR8H3 PE=3 SV=1  
MMGRRNDTNVADFILTGLSDSEEVQMALFMLFLLIYLITMLGNVGMILLIIRLDLQLHTPM  
YFFLTHLSFIDLSYSTVTPKTLANLLTSNYISFTGCFAQMFCFVFLGTAECYLLSSMAY  
DRYAAICSPHLYTVIMPKRLCLALITGPYVIGFMSDFNVVSMRSLHFCDSNIIHFFCD  
TSPILALSCTDNTDNTMLIFIIAGSTLMVSLITISASYVSILSTILKINSTSGKQKAFST  
CVSHLLGVTIFYGTMIFTYLPKRSYSLGRDQVAPVFYTIVIPMLNPLIYSLRNREVKNA  
LIRVMQRRQDSR

>sp|Q8NOY5|OR8I2\_HUMAN Olfactory receptor 8I2 OS=Homo sapiens GN=OR8I2 PE=2 SV=1  
MAGNNFTEVTVFILSGFANHPQLQVSLFLMFLFIYLFVTLGNLGLITLIRMDSQLHTPMY  
FFLSNLAFIDIFYSSTVTPKALVNFQSNRRSISFVGCFVQMYFFVGLVCCECFLLGSMAY  
NRYIAICNPLLYSVMSQKVSNNLGVMPYVIGFTSSLISVWVSSLAFCDSNIIHFFCDT  
TALLALSCVDTFGTEMVSFVLGFTLLSSLLIITVTYIIIIISAILRIQSAAGRQKAFSTC  
ASHLMAVTIFYGSLIFTYLPDNTSSLTQAQVASVFYTIVIPMLNPLIYSLRNKDVKNAL  
LRVIHRKLP

>sp|Q8NGP2|OR8J1\_HUMAN Olfactory receptor 8J1 OS=Homo sapiens GN=OR8J1 PE=2 SV=2  
MAPENFTRVTEFILTGVSSCPQLIPLFLVFLVLYGLTMAGNLGIITLTSVDSRLQTPMY  
FFLQHLALINLGNSTVIAPKMLINFLVKKKTSFYECATQLGGFLFFIVSEVIMLALMAY  
DRYVAICNPLLYMVVSRRLCLLLVSLTYLYGFSTAIVSSYVFSVSYCSSNIIHFFYCD  
NVPLLALSCSDTYLPETVVFISAATNVVGSLLIIVLVSYFNIVLSILKICSSEGRKKAFST  
CASHMMAVTIFYGTLFMYVQPRSNHSLDTDKMASVFYTLVIPMLNPLIYSLRNKDVKT  
ALQRFMTNLCYSFKTM

>sp|Q8NH10|OR8U1\_HUMAN Olfactory receptor 8U1 OS=Homo sapiens GN=OR8U1 PE=3 SV=1  
MAHINCTQATEFILVGLTDHQLKMPFLVFLFSIYLFVVGNLGLILLIRADTSLNTPMY  
FFLSNLAFVDFCYSSVITPKMLGNFLYKQNVISFDACATQLGCFLTFMISESLLLASMAY  
DRYVAICNPLLYMVVMPGICIQLVAVPYSYSLMALFHTILTFRLSYCHSNIVNHFFYCD  
DMPLRLRLTCSDFTRFKQLWIFACAGIMFISSLLIVFVSYMFIIISAILRMHSAEGRQKAFST  
CGSHMLAVTIFYGTLIFMYLQPSSSHLDTDKMASVFYTVIIPMLNPLIYSLQNKEVKEA  
LKKIIINKN

>sp|Q8NGU2|OR9A4\_HUMAN Olfactory receptor 9A4 OS=Homo sapiens GN=OR9A4 PE=2 SV=1  
MLMNYSSATEFYLLGFPGSEELHHILFAIFFFFYLVTLMGNTVIMIVCVDKRLQSPMYF  
FLGHLASLEILVTIIIVPVMLWGLLLPGMQTIYLSACVVQLFLYLAVGTTEFALLGAMAV  
DRYVAVCNPLRYNIIIMNRHTCNFVVLVSWVFGFLFIWVPVYVMFQLYCKSNVNNFFCD  
RGQLKLSCNNTLTFEFILFLMAVFVFLGSLIPTIVSNAYIISTILKIPSSSGRRKSFST  
CASHFTCVVIGYGSCLFLYVKKPKQTAADYNWVSLMVSVTPFLNPFIFTLRNDKVIEA  
LRDGVKRCCQLFRN

>sp|Q96SN7|ORAI2\_HUMAN Protein orai-2 OS=Homo sapiens GN=ORAI2 PE=1 SV=1  
MSAELNVPIDPSAPACPEPGHKGM DYRDWVRRSYLELVTSNHHSVQALSWRKLYLSRAKL  
KASSRTSALLSGFAMVAMVEVQLETQYQYPRPLIIAFSACTTVLVAVHLFALLISTCILP  
NVEAVSNIHNLNSISESPHERMHPIELAWGFSTVLGILLFLAEVLLCWIKFLPVDARR  
QPGPPPGSHTGWQAALVSTIIMVPVGLIFVVFTIHFYRSLVRHKTERHNREIEELHKL  
KVQLDGHERSLQVL

>sp|Q8WV07|ORAV1\_HUMAN Oral cancer-overexpressed protein 1 OS=Homo sapiens GN=ORAV1 PE=1  
SV=2  
MAGSQDIFDAIVMADERFHGEGYREGYEEGSSLGVMEGRQHGT LHGAKIGSEIGCYQGFA



FAWKCLLHSCCTEKDSRKMVLESIGMIQKFPYDDPTYDKLHEDLDKIRGKFKQFCSLL  
NVQPDFKISAEGSGLSF

>sp|Q53FV1|ORML2\_HUMAN ORM1-like protein 2 OS=Homo sapiens GN=ORMDL2 PE=1 SV=2

MNVGVAHSEVNPNTVRMNSRGIWLAYIILVGLLHMVLLSIPFFSIPVVWTLTNVIHNLAT  
YVFLHTVKGTPFETPDQGKARLLTHWEQMDYGLQFTSSRKFLSISPIVLYLLASFYTKYD  
AAHFLINTASLLSVLLPKLPQFHGVRVFGINKY

>sp|Q9Y619|ORNT1\_HUMAN Mitochondrial ornithine transporter 1 OS=Homo sapiens GN=SLC25A15  
PE=1 SV=1

MKSNPAIQAAIDLTAGAAGGTACVLTGQPFDTMKVKMQTFPDLYRGLTDCCLKTYSQVGF  
RGFYKGTSPALIANIAENSVLFMCYGFCCQVVRKVAGLDKQAKLSDLQNAAGSFASAF  
ALVLCPTELVKCRLQTMEMETSGKIAKSQNTVWSVIKSILRKDGPLGFYHGLSSTLLRE  
VPGYFFFFGGYELSRFFASGRSKDELGPVPLMLSGGVGGICLWLAVYPVDCIKSRIQVL  
SMSGKQAGFIRTFINVVKNEGITALYSGLKPTMIRAFPANGALFLAYEYSRKLMMNQLEA  
Y

>sp|Q6GQQ9|OTU7B\_HUMAN OTU domain-containing protein 7B OS=Homo sapiens GN=OTUD7B PE=1  
SV=1

MTLDMDAVLSDFVRSTGAEPGLARDLLEGKNWDVNAALSDFEQLRQVHAGNLPPSFSEGS  
GGSRTPEKGFSDREPTRPPRPIILQRQDDIVQEKRLSRGISHASSIVSLARSHVSSNGGG  
GGSNEHPLEMPICAFQLPDLTVYNEDFRSFIERDLIEQSMLVALEQAGRLNWWVSVDPTS  
QRLLPLATTGDGNCLLHAASLGMWGFHARDLMLRKALYALMEKGVEKEALKRRRWQQTQ  
QNKESGLVYTEDEWQKEWNEIKLASSEPRMHLGTNGANCGVESSEEPVYESLEEFHVF  
VLAHVLRRPIVVVADTMLRDSGGAEAFAPIPFGGIYLPLEVPASQCHRSPLVLAYDQAHFS  
ALVSMEQKENTKEQAVIPLTDSEYKLLPLHFAVDPGKGWEWGKDDSDNVRLASVILSLEV  
KLHLLHSYMNWKWIPLSSDAQAPLAQPESPTASAGDEPRSTPESGSDKESVGSSTSNE  
GGRRKEKSKRDREKDKRADSVANKLGSFGKTLGSKLKKNMGGLMHSKSGSKPGGVGTGLG  
GSSGTETLEKKKKNSLSKSWGGKEEAAGDGPVSEKPPAESVGNNGSKYSQEVMSLSILR  
TAMQGEKGFIFVGTLMGHRHQYQEEMIQRYLSDAEERFLAEQKQKEAERKIMNGGIGGG  
PPPAKKPEPDAREEQPTGPPAESRAMAFSTGYPGDFTIPRPSGGVHCQEPRRQLAGGPC  
VGGLPPYATFPRQCPPGRPYPHQDSIPSLEPGSHSKDGLHRGALLPPPYRVADSYNGYR  
EPPEPDGWAGGLRGLPPTQTKCKQPNCsfyghPETNNFSCCYREELRRREREPDGELLV  
HRF

>sp|Q5T2D3|OTUD3\_HUMAN OTU domain-containing protein 3 OS=Homo sapiens GN=OTUD3 PE=1 SV=1

MSRKQAAKSRPGSGSRKAEAEKRDERAARRALAKERRNRPESGGGGGCEEEFVSFANQL  
QALGLKLREVPDGNCLFRALGDQLEGHSRNLKHRQETVDYMIKQREDFEPFVEDDIPF  
EKHVASLAKPGTFAGNDAIVAFARNHQLNVVIHQLNAPLWQIRGTEKSSVRELHIAARYG  
EHYDSVRRINDNSEAPAHLQTDQMLHQDESNKREKIKTKGMDSEDDLREVEDAVQKVC  
NATGCSDFNLIVQNLEAENYNIESAIIAVLRMNQGRNNAEENLEPSGRVLKQCGPLWEE  
GGSGARIFGNQGLNEGRTEENKAQASPSEENKANKQLAKVTNKQRREQQWMEKKKRQEE  
RHRHKALESRGSHRDNNRSEAEANTQVTLVKTFEALNI

>sp|Q99489|OXDD\_HUMAN D-aspartate oxidase OS=Homo sapiens GN=DDO PE=2 SV=1

MDTARIAVVGAGVGLSTAVCISKLVPRCSVTIISDKFTPDTTSDVAAGMLIPHTYPDTP  
IHTQKQWFRETFNHLFAIANSAEAGDAGVHLVSGWQIFQSTPTEEVFWADVVLGFRKMT  
EAELKKFPQYVFGQAFTTLKCECPAYLPWLEKRIKSGGWTLTRRIEDLWELHPSFDIVV  
NCSGLGSRQLAGDSKIFPVRGQVLQVQAPWVEHFIRDGSGLTYYIPGTSHTVTLGGTRQKG

DWNLSFDAENSREILSRCCALEPSLHGACNIREKVGLRPGVRLQTELLARDGQRLPV  
VHHYHGSGGGISVHWGTALEAARLVSECVHALRTPPKSNL

>sp|Q8TDS5|OXER1\_HUMAN Oxoecicosanoid receptor 1 OS=Homo sapiens GN=OXER1 PE=2 SV=1  
MLCHRGGQLIVPIIPLCPEHSCRGRLQNLSSGPWPQPMELHNLSSPSPSLSSSVLPSS  
FSPSPSSAPSAFTTVGGSSGGPCHPTSSSLVSAFLAPILALEFVLGLVGNLALFIFCIH  
TRPWTSNTVFLVSLVAADFLLISNPLRVDYLLHETWRFGAAACKVNLFMLSTNRTASV  
VFLTAIALNRYLKVVQPHVLSRASVGAAARVAGGLWVGILLNGHLLSTFSGPSCLSY  
RVGTPKSASLRWHQALYLLEFFLPLALILFAIVSIGLTIIRNRGLGGQAGPQRAMRVLAMV  
VAVYTICFLPSIIIFGMASMAFWLSACRSLDLCTQLFHGSLAFTYLSVLDPVLYCFSSP  
NFLHQSRALLGLTRGRQGPVSDSSYQPSRQWRYREASRKAEATGKLKVQGEVSLEKEGS  
SQG

>sp|P30559|OXYR\_HUMAN Oxytocin receptor OS=Homo sapiens GN=OXTR PE=2 SV=2  
MEGALAANWSAEANASAAPPGAEGNRTAGPPRRNEALARVEVAVLCLILLALSGNACV  
LLALRTRTRQKHSRLFFFMKHLISADLVVAVFQVLPQLLWDITFRFYGPDLCLRLVKYLQV  
VGMFASTYLLLLMSLDRLAICQPLRSLRRRTDRLAVLATWLGCLVASAPQVHIFSLREV  
ADGVFDCWAVFIQWGPKAYITWITLAVYIVPVIVLAACYGLISFKIWQNLRLKTAATAAA  
AEAPEGAAAGDGGVALARVSSVKLISKAKIRTVKMTFIIIVLAFIVCWTPFFVQMWVSVW  
DANAPKEASAFIIIVMLLASLNSCCNPWIYMLFTGHLFHELVRFLCCSASYLKGRRLGET  
SASKKSNSSSFVLSHRSSSQRSCSQPSTA

>sp|Q15072|OZF\_HUMAN Zinc finger protein OZF OS=Homo sapiens GN=ZNF146 PE=1 SV=2  
MSHLSQQRIYSGENPFACKVCGKVFVSHKSNLTEHEHFHTREKPFECNECGKAQSKQYVI  
KHQNTHTGEKLFECNECGKSFSQKENLLTHQKIHTGEKPFCKDCGKAFIQKSNLIRHQR  
THTGEKPFVCKEKGTFSGKSNLTEHEKIHIGEKPFCKSECGTAFGQKKYLKHNQIHTG  
EKPYECNECGKAQSQRTSLIVHVRHSGDKPYECNVCGKAQSSSLTVHVSHTGEKPY  
GCNECGKAQSQFSTLALHLRIHTGKKPYQCECGKAQSKSHIRHQQIHTH

>sp|Q86VZ1|P2RY8\_HUMAN P2Y purinoceptor 8 OS=Homo sapiens GN=P2RY8 PE=1 SV=1  
MQVPNSTGPDNATLQMLRNPAIAVALPVVYSLVAAVSIPGNLFSWLWLCRRMGPRSPSVI  
FMINLSVTDMLASVLPFQIYYHCNRHHWVFGVLLCNVTVAFYANMYSSILMTTCISVE  
RFLGVLYPLSSKRWRRRRYAVAACAGTWLLLLTALSPLARTDLTYPVHALGIITCFDVLK  
WTMLPSVAMWAVFLFTIFILLFLIPFVITVACYTATILKLLRTEEAHGREQRRRAVGLAA  
VVLLAFVTCFAPNNFVLLAHIVSRIFYGKSYHYVYKLTCLSLNCLDPFVYFASREF  
QLRLREYLGCRVRPDLTDTRRESLFSARTTSVRSEAGAHPEGMEGATRPLQRQESVF

>sp|Q92569|P55G\_HUMAN Phosphatidylinositol 3-kinase regulatory subunit gamma OS=Homo sapiens GN=PIK3R3 PE=1 SV=2

MYNTVWSMDRDDADWREVMMPYSTELIFYIEMDPPALPPKPPKPMTSAPVNGMKDSSVSL  
QDAEWYWGDISREEVNDKLRDMPDGTFLVRDASTKMQGDYTLTLRKGNNKLIKIIYHRDG  
KYGFSDDLTFNSVVELINHYHHESLAQYNPKLDVKLMYPVSRYQQDQLVKEDNIDAVGKK  
LQEYHSQYQEKSEYDRLYEYTRTSQEIQMKRTAIEAFNETIKIFEEQCHTQEQHSKEY  
IERFRREGNEKEIERIMMNYDKLSRLGEIHDSKMRLEQDLKNQALDNREIDKKMNSIKP  
DLIQLRKIRDQHLVWLNHKGVRQKRLNVWLGIKNEDADENYFINEEDENLPHYDEKTFV  
EDINRVQAEDLLYGKPDGAFLIRESSKGCYACSVVADGEVKHCVIYSTARGYGFAEPYN  
LYSSLKELVLHYQQTSLVQHNDNLNRLAYPVHAQMPSLCR

>sp|Q96C36|P5CR2\_HUMAN Pyrroline-5-carboxylate reductase 2 OS=Homo sapiens GN=PYCR2 PE=1 SV=1

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLPTVSALRKMGVNLTRSNETV  
KHSDVFLAVKPHIIPFILDEIGADVQARHIVVSCAAGVTISSVEKKLMAFQPAPKVIRC  
MTNTPVVVQEGATVYATGTHALVEDGQLLEQLMSSVGFCTEVEEDLIDAVTGLSGSGPAY  
AFMALDALADGGVKMGLPRRLAIQLGAQALLGAAKMLLDSEQHPCQLKDNVCSPGGATIH  
ALHFLESGGFRSLLINAVEASCIRTRELQSMADQEKISPAALKKTLLDRVKLESPTVSTL  
TPSSPGKLLTRSLALGGKKD

>sp|P54886|P5CS\_HUMAN Delta-1-pyrroline-5-carboxylate synthase OS=Homo sapiens  
GN=ALDH18A1 PE=1 SV=2

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTHGKS  
FAHRSELKHAKRIVVKLGSVVTRGDECGLALGRLASIVEQVSVLQNGREMMLVTSGAV  
AFGKQRLRHEILLSQSVRQALHSGQNQLKEMAI PVLEARACAAAGQSGLMALYEAMFTQY  
SICAAQILVTNLDHFDEQKRRNLNGTLHELLRMNIVPIVNTNDVPPAEPNSDLQGVNV  
ISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLIDIFYPGDQQSVTFGTK  
SRVGMGMMEAKVKAAALWALQGGTSVVIANGTHPKVSGHVITDIVEGKKVGTFFSEVKPAG  
PTVEQQGEMARSGGRMLATLEPEQRAEI IHHLADLLTDQRDEILLANKKDLEEAEGRLAA  
PLLKRLSLSTSKLNSLAIGLRQIAASSQDSVGRVLRRTRIAKNLELEQVTVPIGVLLVIF  
ESRPDCLPQVAALAIASGNLLKGGKEAAHSNRILHLLTQEALSIHGVKEAVQLVNTRE  
EVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGIHMYVDSEASVDKVTSL  
VRDSKCEYPAACNALETLLIHRDLLRTPLFDQIIDMLRVEQVKIHAGPKFASYLTFSPSE  
VKSLRTEYGDLELCIEVVDNVQDAIDHIIHKYGSSHTDIVTEDENTAEFFLQHVSACVF  
WNASTRFSDGYRFLGAEVGISTSRIHARGPVGLEGLLTKWLLRGKDHVVSDFSEHGSL  
KYLHENLPIQRNTN

>sp|O15496|PA2GX\_HUMAN Group 10 secretory phospholipase A2 OS=Homo sapiens GN=PLA2G10  
PE=1 SV=3

MGPLPVCPLIMLLLLPSLLLLLLPGPGSGEASRILRVHRRGILELAGTVGCVGPRTPI  
AYMKYGCFCGLGGHGQPRDAIDWCCHGHDCCYTRAEEAGCSPKTERYSWQCVNQSVLCGP  
AENKCQELLCKCDQEIANCLAQTEYNLYLFYPQFLCEPDSPKCD

>sp|O75781|PALM\_HUMAN Paralemm-1 OS=Homo sapiens GN=PALM PE=1 SV=2

MEVLAAETTSQQRQLQAI AEKRKRQAEIENKRRQLEDERRQLQHLKSKALRERWLLEGTP  
SSASEGDEDLRRQMDDQKTRLLEDVSRLEKEIEVLERGDSAPATAKENAAAPSPVRA  
PAPSPAKEERKTEVVMNSQQTTPVGTPKDKRVSNTPLRITVDGSPMMKAAMYSVEITVEKDK  
VTGETRVLSSSTLLPRQPLPLGIKVEDETKVVHAVDGTAEANGIHLSSSEVDELHKAD  
EVTLSEAGSTAGAAETRGAVEGAARTTPSRREITGVQAQPGEATSGPPGIQPGQEPPVTM  
IFMGYQNVEDEAETKKVLGLQDTITAELVVEDAAEPKEPAPPNGSAAEPPTAAASREEN  
QAGPEATTSDDPQDLDMKKHRCKCCSIM

>sp|Q5VVY1|NTM1B\_HUMAN Alpha N-terminal protein methyltransferase 1B OS=Homo sapiens  
GN=METTL11B PE=1 SV=2

MAHRGAHFAFRSRWQKTDELCHRHSFILHKAIRNDFQSYLYLLEKIPLVKLYALTSQ  
VINGEMQFYARAKLFYQEVPAEEGMMGNFIELSSPDIAQSQKFLRKFGVGGPGRAGTDCA  
LDGSGIGIRVSKHVLLPVFNSVELVDMMESFLLEAQNYLQVKGDKVESYHCYSLQEFTPP  
FRRYDVIWIQWVSGHLTDKDLAFLSRCRDGLKENGIIILKDNVAREGCILDLSSSVTR  
DMDILRSLIRKSGLVVLGQEKQDGFPEQCIPVWMFALHSDRHS

>sp|O60502|OGA\_HUMAN Protein O-GlcNAcase OS=Homo sapiens GN=MGEA5 PE=1 SV=2

MVQKESQATLEERESELSSNPAASAGASLEPPAAPAPGEDNPAGAGGAAGAAGGARRF

LCGVVEGFYGRPVMQEKELFRRLQKWELNTYLYAPKDDYKHRMFWREMSVEEAEQLM  
TLISAAREYEIEFIYAISPGLDITFSNPKEVSTLKRKLDQVSQFGCRSFALLFDDIDHNM  
CAADKEVFSSFAHAQVSITNEIYQYLGEPTFLFCPTCYCYPNVSSQPYLRTVGEK  
LLPGIEVLWTGPKVVSKEIPVESIEEVSKI IKRAPVIWDNIHANDYDQKRLFLGPYKGRS  
TELIPRLKGVLTNPNCFEANYVAIHTLATWYKSNMNGVRKDVVMTDSEDSTVSIQIKLE  
NEGSDEDIETDVLYSQMALKLALTEWLQEFVPHQYSSRQVAHSGAKASVVDGTPLVAA  
PSLNATTVVTTYQEPIMSQGAALSSEPTTLTKEEEKKQDDEPMDMVVEKQEETHKND  
NQILSEIVEAKMAEELKPMDDTKESIAESKSPMSMQEDCISDIAPMQTDEQTNKEQFVP  
GPNEKPLYTAEPVTLEDLQLLADLFYLPYEHGPKGAQMLREFQWLRANSSVSVNCKGKD  
SEKIEEWSRAAKFEEMCGLVMGMFTRLNCANRTILYDMYSYVWDIKSIMSMVKSFVQW  
LGCRSHSSAQFLIGDQEPWAFRGLAGEFQRLLPIDGANDLFFQPPPLTPTSKVYTIRPY  
FPKDEASVYKICREMYDDGVLPFQSQPDLIGDKLVGGLSLSLDYCFVLEDEDGICGYA  
LGTVDVTPFIKKCKISWIPFMQEYTKPNGDKELSEA EKIMLSFHEEQEVLPETFLANFP  
SLIKMDIHKKVTDPSVAKSMMACLLSSLKANGSRGAFCEVRPDDKRILEFYSKLGCFEIA  
KMEGFPKD VVILGRSL

>sp|Q9NZT2|OGFR\_HUMAN Opioid growth factor receptor OS=Homo sapiens GN=OGFR PE=1 SV=3

MDDPDCDSTWEEDEDAEDAEDCEDCEGAAGARDADAGDEDEESEEPRAARPSSFQSRM  
TGSRNWRATRDMCRYRHNPDLVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDN  
YDLLEDNHSYIQWLFPLREPGVNWAKPLTLREVEVFKSSQEIQRLLVRAYELMLGFYGI  
RLEDRTGTVGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGLEHFQAPLVRFFLEET  
LVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFVWGPQDKLRRFKPSSL  
PHPLEGSRKVEEESPGDPDHEASTQGRTCGPEHSKGGGRVDEGPQPRSEVPQDAGPLER  
SQGDEAGGHGEDRPEPLSPKESKKRKLLESRREQPPTPEGPQSASEVEKIALNLEGCALS  
QGSRLTGTQEVGGQDPGEAVQPCRQPLGARVADKVRKRRKVDEGAGDSAAVASGGAQTALA  
LAGSPAPSGHPKAGHSENGVEEDTEGRTGPKEGTPGSPSETPGPSPAGPAGDEPAESPSE  
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSE  
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAKAGEA  
AELQDAEVSSAKSGKP

>sp|O14841|OPLA\_HUMAN 5-oxoprolinase OS=Homo sapiens GN=OPLAH PE=1 SV=3

MGSPEGRFHFAIDRGFTFDVFAQCPGGHVRVLKLLSEDPANYADAPTEGIRRIQEAG  
MLLPRDQPLDSSHIASIRMGTTVATNALLERKGERVALLVTRGFRDLLHIGTQARGDLFD  
LAVPMPEVLYEEVLEVDERVVLHRGEAGTTPVKGRTGDLLEVQQPVDLGALRGKLEGLL  
SRGIRSLAVVLMHSYTWAQHEQQVGLARELGFTHVSLSSEAMPVRIVPRGHTACADAY  
LTPAIQRYVQGFGRGFGQLKDVQVLFMRSDGGLAPMDTFSGSSAVLSGPAGGVVGYSAT  
TYQQEGGQPVIGFDMGGTSTDVSRYAGEFEHVFEASTAGVTLQAPQLDINTVAAGGGSRL  
FFRSGLFVVGPESAGAHGPACYRKGGPVTVTDANLVLGRLLPASFPICFGPGENQPLSP  
EASRKALEAVATEVNSFLTNGPCPASPLSLEEVAMGFVRVANEAMCRPIRALTQARGHDP  
SAHVLACFGGAGGQHACAIARALGMDTVHIHRHSGLLSALGLALADVVEAQAQEPSLLYA  
PETFVQLDQRLSRLEEQCVDALQAQGFPRSQISTESFLHLRYQGTDCALMVSAHQHPATA  
RSPRAGDFGAAFVERYMREFGFVIPERPVVDDVVRVGTGRSGLRLEDAPKAQTGPPRVD  
KMTQCYFEGGYQETPVYLLAELGYGHKLHGPCLIIDSNSTILVEPGCQAEVTKTGDICIS  
VGAEVPGTVGQPLDPIQLSIFSHRFMSIAEQMGRILQRTAISTNIKERLDFSCALFGPDG  
GLVSNAPHIPVHLGAMQETVQFQIQHLGADLHPGDVLLSNHPSAGGSHLPDLTVITPVFW  
PGQTRPVFYVASRGHHADIGGITPGSMPPHSTMLQQEGAVFLSFKLVQGGVFQEEAVTEA

LRAPGKVPNCSTGRNLHDNLSDLRAQVAANQKGIQLVGELIGQYGLDVVQAYMGHIQANA  
ELAVRDMLEAFGTSRQARGLPLEVSSDHMDGSPIRLRVQISLSQGSVAFDFSGTGPEV  
FGNLNAPRAVTLNLIYCLRCLVGRDIPLNQGLAPVRVVIIPRGSILDPSPEAAVVG  
LTSQRVVDVILGAFGACAASQGCMMNVTLGNAHMGYYETVAGGAGAGPSWHGRSGVHSHM  
TNTRITDPEILESRYPVILRRFELRRGSGGRGRFRGGDGVIRELLFREEALLSVLTERRA  
FRPYGLHGGEPGARGLNLLIRKNGRTVNLGGKTSVTVPYGDVFLHTPGGGGYGDPEDPA  
PPPGSPPQALAFPEHGSVYVYRRAQEA

>sp|PODN77|OPSG2\_HUMAN Medium-wave-sensitive opsin 2 OS=Homo sapiens GN=OPN1MW2 PE=3 SV=1

MAQQWSLQRLAGRHQDSYEDSTQSSIFTYTNSTNRGPFEGPNYHIAPRWVYHLTSVWM  
IFVVIASVFTNGLVLAATMKFKKLRLPLNWLNLAVADLAETVIASTISVVNQVYGYFV  
LGHPMCVLEGYTVSLCGITGLWSLAIISWERWMVCKPFGNVRFDKLAIVGIAFSWIWA  
AVWTAPPIFGWSRYWPHGLKTSCTGPDVFGSSYPGVQSYMIVLMVTCCITPLSIIVLCYL  
QVWLAIKAVAKQKQKESSTQKAEKEVTRMVVVMVLAFCFCWGPYAFFACFAANPGYPFH  
PLMAALPAFFAKSATIYNPVIYVFMNRQFRNCILQLFGKKVDDGSELSSASKTEVSSVSS  
VSPA

>sp|Q9Y585|OR1A2\_HUMAN Olfactory receptor 1A2 OS=Homo sapiens GN=OR1A2 PE=2 SV=1

MKKENQSFNLDIFLLGVTSQQEQNNVFFVIFLCIYPITLTGNLLIILAICADIRLHNPY  
FLLANLSLVDIIFSSVTIPKVLNHLGSKFISFGCLMQMYFMIALAKADSYTLAAMAY  
DRAVAISCPLHYTTIMSPRSCILLIAGSWVIGNTSALPHTLLTASLSFCGNQEVANFYCD  
IMPLLKLSCDVHFNVKMMYLGVGVSFLPLLCIIVSYVQVFSTVFPVSTKSLFKAFCTC  
GSHLTVVFLYGGTMMGYFRPLTSYSPKDAVITVMYVAVTPALNPFYISLRNWDKAAALQ  
KLFSKRISS

>sp|Q15619|OR1C1\_HUMAN Olfactory receptor 1C1 OS=Homo sapiens GN=OR1C1 PE=2 SV=4

MEKRNLTVVREFVLLGLPSSAEQQHLLSVLFLCMYLATTLGNMLI IATIGFDSHLHSPY  
FFLSNLAFVDICTSTTVPQMVVNILTGKTISFAGCLTQLFFVSVFNMDSLLLCVMAY  
DRYVAICHPLHYTARMNLCLCVQLVAGLWLVTYLHALLHTVLIQAQSLFCASNI IHHFFCD  
LNPLLQLSCSDVSFNVMIIFAVGGLLALPLVCILVSYGLIFSTVLKITSTQGKQRAVST  
CSCHLSVVVLFYGTIAVYFSPSSPHMPESDTLSTIMYSMVAPMLNPFYITLRNRDMKRG  
LQKMLLKCTVFQQQ

>sp|P47884|OR1D4\_HUMAN Olfactory receptor 1D4 OS=Homo sapiens GN=OR1D4 PE=3 SV=3

MDGDNQSENSQFLLLGISESPEQQILFWMFLSMYLVTVLGNVLIILAISDSHLHTPMY  
FFLANLSFTDLFFVTNTIPKMLVNFQSQNKAIISYAGCLTQLYFLVSLVTLNLIILAVMAY  
DRYVAICCPHYVTAMSPGLCVLLLSLCWGLSVLYGLLLTFLTRVTFCGPREIHYLFCD  
MYILLWLACSNTHI IHTAL IATGCFIFLTLLGFM TTSYVRIVRTILQMP SASKKYKTFST  
CASHLGVSLSFYGTAMVYLQPLHTYSMKDSVATVMYAVLTPMMNPFYISLRNKDMHGAP  
GRVLWRPFQRP

>sp|P58170|OR1D5\_HUMAN Olfactory receptor 1D5 OS=Homo sapiens GN=OR1D5 PE=3 SV=1

MDGDNQSENSQFLLLGISESPEQQRILFWMFLSMYLVTVLGNVLIILAISDSHLHTPMY  
FFLANLSFTDLFFVTNTIPKMLVNFQSQNKAIISYAGCLTQLYFLVSLVTLNLIILAVMAY  
DRYVATCCPLHYVTAMSPGLCVLLLSLCWGLSVLYGLLLTFLTRVTFCGPREIHYLFCD  
MYILLWLACSNTHI IHTAL IATGCFIFLTPLGFM TTSYVRIVRTILQMP SASKKYKTFST  
CASHLGVSLSFYGTAMVYLQPLHTYSMKDSVATVMYAVLTPMMNPFYISLRNKDMHGAP  
GRVLWRPFQRP

>sp|Q8NGS1|OR1J4\_HUMAN Olfactory receptor 1J4 OS=Homo sapiens GN=OR1J4 PE=2 SV=1

MKRENQSSVSEFLLLDLPIWPEQQAVFFTLFLGMYLITVLGNLLIILLIRLDSHLHTPMF  
FFLSHLALTDISLSSVTPKMLLSMQTQDQSILYAGCVTQMYFFIFFTDLDNFLTSMAY  
DRYVAICHPLRYTTIMKEGLCNLLVTVSWILSCTNALSHLLLLAQLSFCADNTIPHFFCD  
LVALKLSCSDISLNELVIFTVGQAVITLPLICILISYGHIGVTILKAPSTKGIFKALST  
CGSHLSVVSLEYGTIIGLYFLPSSSASSDKDVIASVMYTVITPLNPFYISLRNRDIKGA  
LERLFNRATVLSQ

>sp|Q8NGR5|OR1L4\_HUMAN Olfactory receptor 1L4 OS=Homo sapiens GN=OR1L4 PE=3 SV=1  
METKNYSSSTSGFILLGLSSNPQLKPLFAIFLIMYLLTAVGNVLIILAIYSDPRLHTPM  
YFFLSNLSFMDICFTTVIVPKMLVNFLSETKIISYVGCLIQMYFFMAFGNTDSYLLASMA  
IDRLVAICNPLHYDVMKPPWHCLLMLLGSCSISHLHSLFRVLLMSRLSFCASHIIKHFFC  
DTQPVLKLSCDTSSSQMVMTETLAVIVTPFLCTIFSYLQIIVTVLRIPSAAGKWKAFS  
TCGSHLTVVVLFGYSVIYVYFRPLSMYSVMKGRVATVMYTVVTPMLNPFYISLRNKDMKR  
GLKKLRHRIYS

>sp|Q8NGA1|OR1M1\_HUMAN Olfactory receptor 1M1 OS=Homo sapiens GN=OR1M1 PE=2 SV=1  
MEPRNQTSASQFILLGLSEKPEQETLLFSLFFCMYLMVVGNNLIILAIISIDSHLHTPMY  
FFLANLSLVDFCLATNTIPKMLVSLQTGSKAISYPCCLIQMYFFHFFGIVDSVIIAMMAY  
DRFVAICHPLHYAKIMSLRLCRLLVGALWAFSCFISLTHILLMARLVFCGSHEVPHYFCD  
LTPILRLSCTDTSVNRIFILIVAGMVIATPFVCILASYARILVAIMKVPSAGGRKKAFST  
CSSHLSVVALFYGTTIGVYLCPSVLTTVKEKASAVMYTAVTPMLNPFYISLRNRDLKGA  
LRKLVNRKITSSS

>sp|Q8NGR9|OR1N2\_HUMAN Olfactory receptor 1N2 OS=Homo sapiens GN=OR1N2 PE=2 SV=2  
MEGFYLRRSHELQMGKPGRVNQTTVSDFLLGLSEWPEEQPLLFGIFLGMVLTVMVGNL  
LIILAISSDPLHTPMYFFLANLSLTDACFTSASIPKMLANIHTQSQIISYSGCLAQLYF  
LLMFGGLDNCLLAVMAYDRYVAICQPLHYSTSMSPQLCALMLGVCWVLTNCPALMHTLLL  
TRVAFCAQKAIPHFYCDPSALLKLACSDTHVNELMIITMGLLFLTVPLLLIVFSYVRIFW  
AVFVISSPGGRWKAFSTCGSHLTVVLLFYGSLMGVYLLPPSTYSTERESRAAVLYMVIIP  
TLNPFYISLRNRDMKEALGKLFVSGKTFFL

>sp|Q8NG85|OR2L3\_HUMAN Olfactory receptor 2L3 OS=Homo sapiens GN=OR2L3 PE=2 SV=1  
MENYNQTSTDFILLGFFPPSRIGLFLFILIVFIFLMALIGNLSMILLIFLDTHLHTPMYF  
LLSQLSLIDLNYISTIVPKMASDFLSGNKSISFTGCGIQSFFFSALGGAEALLASMAYD  
RYIAICFPLHYPIRMSKRMCMITGSWIIGSINACAHTVYVLHIPYCQSRAINHFFCDV  
PAMVTLACMDTWVEGTVFLSTTIFLVFPFIAISCSYGRVLLAVYHMKSAEGRKKAYLTC  
STHLTVVTFYYPFVYTYLRPRSLRSPTEDKVLAVFYTTLTPLNPIIYSLRNKEVMGAL  
TRVSQRICSGKM

>sp|Q96R27|OR2M4\_HUMAN Olfactory receptor 2M4 OS=Homo sapiens GN=OR2M4 PE=2 SV=2  
MVWENQTFNSIFILLGIFNHSPHTFLFSLVLGIFSLALMENISMVLLIYIEQLHTPMY  
FLLSQLSLMDLMLICTTLPKMIFSYLSGKKSISLAGCGTQIFFYVSLLGAECFLAVMAY  
DRYVAICHPLQYTIILMNPCLCVFMTVASWTLGSLDGIIVLAAVLSFSYCSSLEIHFFCDV  
VAALLPLSCTETSAFERLLVICCVMLIFPVSVIIISYSHVLRVIAHMGSGESRRKAFTT  
CSSHLSVVGLYGAAMFMYMRPASKHTPDQDKMVSAFYTILTPMLNPLIYSLRNKEVFRA  
LQKVLKKRKLI

>sp|Q9NQN1|OR2S1\_HUMAN Olfactory receptor 2S2 OS=Homo sapiens GN=OR2S2 PE=2 SV=2  
MEKANETSPVMGFVLLRLSAHPELEKTFVLLILLMYLVILLGNGVLILVTILDSRLHTPM  
YFFLGNSFLDICFTTSSVPLVDSFLTTPQETISFSACAVQMALSFAMAGTECLLSMMA

FDRYVAICNPLRYSVIMSKAAYMPMAASSWAIGGAASVVHTSLAIQLPFCGDNVINHFTC  
EILAVLKLACADISINVISMEVTNVIFLGVPVLFISFSYVFIITTLIRIPSAEGRKKVFS  
TCSAHLTVVIVFYGTLLFFMYGKPKSKDSMGADKEDLSKLIPLFYGVVTPMLNPIIYSLR  
NKDVKA AVRRLLRPKGFTQ

>sp|Q8NH00|OR2T4\_HUMAN Olfactory receptor 2T4 OS=Homo sapiens GN=OR2T4 PE=3 SV=2

MDNITWMASHTGWSDFILMGLFRQSKHPMANITWMANHTGWSDFILLGLFRQSKHPALLC  
VVIVVFLMALSGNAVLILLIHCD AHLHTPMYFFISQLSLMDMAYISVTPKMLLDQVMG  
VNKISAPECGMQMFFYVTLAGSEFFLLATMAYDRYVAICHPLRYPVLMNHRVCLFLSSGC  
WFLGSVDGFTFTPITMTFPRGSR EIHFFCEVPAVLNLSCSDTSLYEIFMYLCCVLMML  
IPVVIISSSYLLILLTIHGMNSAEGRKKAFATCSSHLTVVILFYGAIIYTYMLPSSYHTP  
EKDMMVSVFYTILTPVFNPLIYSLRNKDMVGALKKMLTVEPAFQKAME

>sp|Q8N349|OR2LD\_HUMAN Olfactory receptor 2L13 OS=Homo sapiens GN=OR2L13 PE=2 SV=1

MEKWNHTSNDFILLGLLPPNQTGIFLLCLIIILIFFLASVGN SAMIHLIHVDPR LHTPMYF  
LLSQLSLMDLMIYSTV PKMAYNFLSGQKGISFLGCGVQSFFFLTMACSEGLLLTSMAYD  
RYLAICHSLYYP IRMSKMMCKMIGGSWTLGSINSLAHTVFALHIPYCRSRAIDHFFCDV  
PAMLLACTDTWVY EYMFVSTSLFLLFPFIGITSSCGRVLFAVYHMSKEGRKKAFTTI  
STHLTVVIFYAPFVYTYLRPNLRSPAEDKILAVFYTILTPMLNPIIYSLRNKEVLGAM  
RRVFGIFSFLKE

>sp|P47893|OR3A2\_HUMAN Olfactory receptor 3A2 OS=Homo sapiens GN=OR3A2 PE=2 SV=3

MSLQKLMEPEAGNRTA VAEFILLGLVQTEEMQPVVFLLLFAYLVTTGGNLSILA AVL  
EPKLHAPMYFFLGNLSVLDVGCITVTPAMLGRLLSHKSTISYDACLSQLFFFHLLAGMD  
CFLLTAMAYDRLLAICQPLTYSTRMSQTVQRMLVAASLACFTNALHTVAMSTLNFCGP  
NEVNHFYCDLPQLFQLSCSSTQLNELLLFAVG FIMAGTPLVLIITAYSHVAAAVLRIRSV  
EGRKKAFTSTCGSHLTVVCLFFGRGIFNYMRLGSEEASDKDKGVGVFNTVINPMLNPLIYS  
LRNPDVQGALWQIFLGRRSLT

>sp|P47883|OR3A4\_HUMAN Putative olfactory receptor 3A4 OS=Homo sapiens GN=OR3A4P PE=5 SV=4

MDLGN SGND SVVTKFVLLGLTETAALQPILFVIFLLAYVTTIGGTL SILAAILMETKLHS  
PMYFFLGNLSLPDVGCVSVTPAMLSHFISNDRSIPYKACLS EFFFHLLAGADCFLTTI  
MAYDRYLAICQSLTYSSRMSWGIQQALVGMSCVFSFTNALQTVALSPLNFCGPNVINHF  
YCDLPQPFQLSCSSVHLNGQLLFVAAAFMGVAPLVLITVSYAHVAAAVLRIRSAEGRKKA  
FSTCSSHLTVVGIF YGTGVFSYTRLGSVESSDKDKGIGILNTVISPMLNPLIYWTSLLDV  
GCISHC SSDAGVSPGPPVQSSLCCLQFTALLSPPP GWGGLSPLNSHGL

>sp|Q15615|OR4D1\_HUMAN Olfactory receptor 4D1 OS=Homo sapiens GN=OR4D1 PE=2 SV=3

MEPQNTTQVSMFVLLGFSQTQELQKFLFLLFLLVYVTTI VGNLLIMVTVTFDCRLHTPMY  
FLLRNALALIDL CYSTVTSPKMLVDFLHETKTISYQGCAQIFFFHLLGGGT VFFLSVMAY  
DRYIAISQPLRYVTIMNTQLCVGLVVAAWVG GFVHSIVQLALILPLFCGPNILDNFYCD  
VPQVLR LACTDTSLEFLMISNSGLLVIIWFLLLLISYTVILVMLRSHSGKARRKAASTC  
TTHIIVVSMIFIPCIYIYTPFTPF LMDKAVSISYTVMTPLNPMIYTLRNQDMKAAMRR  
LGKCLVICRE

>sp|Q8NGD2|OR4K2\_HUMAN Olfactory receptor 4K2 OS=Homo sapiens GN=OR4K2 PE=2 SV=1

MDVGNKSTMSEFVLLGLSNSWELQMFFFMVFSLLYVATMVGN SLIVITVIVDPHLHSPMY  
FLLTNLSIIDMSLASFATPKMITDYLTGHKTISFDGCLTQIFFLHLFTGTEIILLMAMSF  
DRYIAICKPLHYASVISPVQCV ALVVASWIMGVMHMSQVIFALTLPFCGPYEVD SFFCD

LPVVFQLACVDTYVLGLFMISTSGIIALSCFIVLFNSYVIVLVTVKHHSSRGSSKALSTC  
TAHFIVVFLFFGPCIFIYMWPLSSFLTDKILSVFYTIIFTPTLNPIIYTLRNQEVKIAMRK  
LKNRFLNFNKAMPS

>sp|Q8NGD3|OR4K5\_HUMAN Olfactory receptor 4K5 OS=Homo sapiens GN=OR4K5 PE=3 SV=1  
MDKSNSSVVSEFVLLGLCSSQKLQLFYFCFVSPLYTVIVLGNLLIILTVTSDTSLHSPMY  
FLLGNLSFVDICQASFATPKMIADFLSAHETISFSGCIAQIFFIHLFTGGEMVLLVSMAY  
DRYVAICKPLYVYVIMSRRCTVLVMISWAVSLVHTLSQLSFTVNLPFCGPNVDSFFCD  
LPRVTKLACLDYIIIEILIVNSGILSLSTFSLLVSSYIIILVTVWLKSSAAMAKAFSTL  
ASHIAVVILFFGPCIFIYVWPFTISPLDKFLAIFYTVFTPVLPNPIIYTLNRNRMKAAVRK  
IVNHYLRPRRISEMSLVVRTSFH

>sp|Q8NH41|OR4K15\_HUMAN Olfactory receptor 4K15 OS=Homo sapiens GN=OR4K15 PE=2 SV=2  
MLTSLTDLCFSPIQVAEIKSLPKSMNETNHSRVTEFVLLGLSSSRELQPFLLTFSLLYL  
AILLGNFLIILTVTSDSRLHTPMYFLLANLSFIDVCVASFATPKMIADFLVERKTISFDA  
CLAQIFFVHLFTGSEMVLLVSMAYDRYVAICKPLHYMTVMSRRVCVVLVLISWVFGFIHT  
TSQLAFTVNLPFCGPNKVDSSFFCDPLVTKLACIDTYVVSLLIVADSGFLSLSSFLLLVV  
SYTVILVTVNRSSASMAKARSTLTAHITVVTLFFGPCIFIYVWPFSYSVDKVLAVFYT  
IFTLILNPVIYTLRNKEVKAAMSKLSRYLKPSQVSVVIRNVLFLETK

>sp|Q8NH43|OR4L1\_HUMAN Olfactory receptor 4L1 OS=Homo sapiens GN=OR4L1 PE=3 SV=1  
MDLKNGSLVTEFILLGFFGRWELQIFFFVTFSLIYGATVMGNILIMVTVTCRSTLHSPLY  
FLLGNLSFLDMCLSTATTPKMIIDLLTDHKTISVWGCVTQMFFMHFFGGAEMTLIIIMAF  
DRYVAICKPLHYRTIMSHKLLKGFAILSWIIGFLHSISQIVLTMNLPFCGHNVINNIIFCD  
LPLVIKLACIETYTLELFVIADSGLLSFTCFILLVSYIVILVSVPKKSSHGLSKALSTL  
SAHIIVVTLFFGPCIFIYVWPFSLASNKTLAVFYTVITPLLNPSIYTLRNKKMQEAIK  
LRFQYVSSAQNF

>sp|Q8NGB6|OR4M2\_HUMAN Olfactory receptor 4M2 OS=Homo sapiens GN=OR4M2 PE=2 SV=2  
METANYTKVTEFVLTLGLSQTPEVQLVLFVIFLSFYLFILPGNIIICTISLDPHLTSPMY  
FLLANLAFLDIWYSSITAPEMLIDFFVERKIIISFDGCIAQLFLLHFAGASEMFLLTVMFAF  
DLYTAICRPLHYATIMNQLCCILVALSWRGGFIHSIIQVALIVRLPFCGPNELDSYFCD  
ITQVVRIACANTFPEELVMICSSGLISVVCILALLMSYAFLLALFKKLSGSGENTNRAMS  
TCYSHITIVVLMFGPSIYIYARPFDSESLDKVVSVFNTLIFPLRNPIIYTLRNKEVKAAM  
RKLVTKYILCKEK

>sp|Q8NGL1|OR5D1\_HUMAN Olfactory receptor 5D18 OS=Homo sapiens GN=OR5D18 PE=2 SV=1  
MLLTDRNTSGTTFTLLGFSDPQLVPLFLVFLAIYNVTVLGNIGLIVIIKINPKLHTPM  
YFFLSQLSFVDFCYSSIIAPKMLVNLVVKDRITISFLGCVVQFFFCTFVVTESFLLAVMA  
YDRFVAICNPLLYTVNMSQKLCVLLVVGSYAWGVSCSLELTCSALKLCFHGFNTINHFFC  
EFSSLLSLSCSDTYINQWLLFFLATFNEISTLLIVLTSYAFIVVTILKMRSVSGRRKAFS  
TCASHLTAITIFHGTILFLYCVPSKNSRHTVKVASVFYTVVIPMLNPLIYSLRNKDVKD  
TVTEILDTKVFSY

>sp|Q8NGP6|OR5M8\_HUMAN Olfactory receptor 5M8 OS=Homo sapiens GN=OR5M8 PE=2 SV=1  
MRRNCTLVTEFILLGLTSRRELQILLFTFLAIYMTVAGNLGMIVLIQANAWLHMPMYF  
FLSHLSFVDLCFSSNVTPKMLEIFLSEKKSISYPACLVQCYLFIALVHVEIYILAVMAFD  
RYMAICNPLLYGSRMSKSVCSFLITVPYVYGALTGLMETMWYTNLAFCGPNEINHFCAD  
PPLIKLACSDTYNKELSMFIVAGWNLFSFLFIICISYLYIFPAILKIRSTEGRQKAFSTC  
GSHLTAVTIFYATLFFMYLRPPSKESVEQGMVAVFYTTVIPMLNLIYSLRNKNVKEAL



IKELSMKIYFS

>sp|Q8WZ92|OR5P2\_HUMAN Olfactory receptor 5P2 OS=Homo sapiens GN=OR5P2 PE=2 SV=1  
MNSLKDGNHTALTGFILLGLTDDPILRVILFMIILSGNLSIIILIRISSQLHHPMYFFLS  
HLAFADMAYSSSVTPNMLVNFLVERNTVSYLGCAIQLGSAFFATVECVLLAAMAYDRFV  
AICSPLLYSTKMSTQVSVQLLL VVYIAGFLIAVSYTTSFYFLLFCGPNQVNHFFCDFAPL  
LELSCSDISVSTVVLFSFSSGSIIVVTVCVIAVCYIYILITILKMRSTEGHHKAFSTCTSH  
LTVVTLFYGTITFIYVMPNFSYSTDQNKVSVLYTVVIPMLNPLIYSLRNKEIKGALKRE  
LVRKILSHDACYFSRTSNNIT

>sp|Q9NZP2|OR6C2\_HUMAN Olfactory receptor 6C2 OS=Homo sapiens GN=OR6C2 PE=3 SV=2  
MKNHTVIRTFILLGLTGDPHLQVLLFIFLFLTYMLSVTGNLTIITLTLVDHHLKTPMYFF  
LRNFSFLEVSFTTVCIPRFLYNISMGDNTITYNACASQIFFVILFGATEFFLLAAMSYDR  
YVAICKPLHYVVMNNRVCTLLVLCCWVAGLMIIVPPLSLGLQLEFCDSNAIDHFSCDAG  
PLLKISCSDTWIEQMVILMAVFALIIITLVCVILSYLYIVRTILKFPSVQQRKKAFSTCS  
SHMIVVSIAYGSCIFIYIKPSAKDEVAINKGVSVLTTSVAPLLNPFITYTLRNKQVKQAFS  
DSIKRIAFLSKK

>sp|Q8NGA2|OR7A2\_HUMAN Putative olfactory receptor 7A2 OS=Homo sapiens GN=OR7A2P PE=5  
SV=1  
MVKAGNETQISEFLLLGFSEKQELQPFLFGLFLSMYLVTVLGNLLIILAAISDSCLHTPM  
YFFLSNLSFVDICFASTMPKMLVNIQTQSKVITYAGCITQMCFFVLFIVLDSLLLTVMA  
YDQFVAICHPLHYTVIMSPQLCGLLVLSWIMSVLNSMLQSLVTLQLSFCTDLEIPHFFC  
ELNEMIHLACSDTFVNNMVMHFAAVLLDGGPLVGILYSYCRIVSSIRAISSAQGYKALS  
TCASHLSVVSIFYGTGLGVYLSSTMTQNLHSTAVASVMYTVVTPMLNPFITYSLRNKDIKG  
ALTQFFRGKQ

>sp|O14581|OR7A17\_HUMAN Olfactory receptor 7A17 OS=Homo sapiens GN=OR7A17 PE=2 SV=1  
MEPENDTGISEFVLLGLSEEPQLPFLFGLFLSMYLVTVLGNLLIILATISDSHLHTPMY  
FFLSNLSFADICFISTTIPKMLINIQTQSRVITYAGCITQMCFFVLFVGLDLSLLAVMAY  
DRFVAICHPLHYTVIMNPRLCGLLVLASWMIAALNSLSQSLMVLWLSFCTDLEIPHFFCE  
LNQVIHLACSDTFNLDMGYFAAGLLAGGPLVGILCSYKIVSSIRAISSAQGYKAFST  
CASHLSVVSFLCCTGLGVYLTSAATHNSHTSATASVMYTVATPMLNPFITYSLRNKDIKRA  
LKMSFRGKQ

>sp|Q8NGG8|OR8B3\_HUMAN Olfactory receptor 8B3 OS=Homo sapiens GN=OR8B3 PE=3 SV=3  
MLARNNSLVTEFILAAGLTDHPEFQQPLFFLFLVYIVTMVGNLGLIILFGLNSHLHTPMY  
YFLFNLSFIDLCSYSSVFTPKMLMNFVSKKNIISYVGCMTQLFFFLFFVISECYMLTSMAY  
DRYVAICNPLLYKVTMSHQVCSMLTFAAYIMGLAGATAHTGCMLRLTFCSANIINHLYCD  
ILPLLQLSCTSTYVNEVVVLIVVGINIMVPSCITILSYVFIVTSILHIKSTQGRSKAFST  
CSSHVIALSLFFGSAAFMYIKYSSGSMEQGVSSVFYTNVVPMLNPLIYSLRNKDVKVAL  
RKALIKIQRRNIF

>sp|Q8NGG6|OR8B12\_HUMAN Olfactory receptor 8B12 OS=Homo sapiens GN=OR8B12 PE=2 SV=1  
MAAKNSSVTEFILEGLTHQPLRIPLFFLFLGFYTVTVGNLGLITLIGLNSHLHTPMYF  
FLFNLSLIDFCFSTTITPKMLMSFVSRKNIISFTGCMTQLFFFCFFVSESFILSAMAYD  
RYVAICNPLLYTVTMSQVCLLLLLGAYGMGFAGAMAHTGSIMNLTFCADNLVNHFMCDI  
LPLELSCNSSYMNELVVFIIVAVDVGMPIVTVFISYALILSSILHNSSTEGRSKAFSTC  
SSHIIVVSLFFGSGAFMYLKPLSILPLEQGVSSLFYTIIVPVLNPLIYSLRNKDVKVAL  
RRTLGRKIFS

>sp|Q9GZM6|OR8D2\_HUMAN Olfactory receptor 8D2 OS=Homo sapiens GN=OR8D2 PE=2 SV=1  
MATSNHSSGAEFILAGLTQRPELQLPLFLLFLGIYVTVVGNLGMIFLIALSSQLYPPVY  
YFLSHLSFIDLCSYSSVITPKMLVNFVPEENIISFLECITQLYFFLIFVIAEGYLLTAMEY  
DRYVAICRPLLYNIVMSHRVCSIMMAVVYSLGFLWATVHTTRMSVLSFCRSHTVSHYFCD  
ILPLLTLSCSSTHINEILLFIIGGVNTLATTLAVLISYAFIFSSILGIHSTEGQSKAFGT  
CSSHLLAVGIFFGSITFMFKPPSSTMEKEKVSSVFYITIIIPMLNPLIYSLRNKDVKNA  
LKKMTRGRQSS

>sp|Q6IF36|OR8G2\_HUMAN Olfactory receptor 8G2 OS=Homo sapiens GN=OR8G2 PE=2 SV=1  
MVFLSSVETDQRKMSAGNHSSVTEFILAAGLSEQPELQLRLFLLFLGIYVTVVGNLSMIT  
LIGLSSHLHTPMYYFLSGLSFIDLCHSTIITPKMLVNFVTEKNIISYPECMTQLYFFLIF  
AIAECHMLAVTAYDRYVAICSPLLYNVIMSYHHCFWLTGVVYVLGILGSTIHTGFMLRLF  
LCKTNVINHYFCDLFPLLGLSCSSTYINELLVLVLSAFNLTALILASYIFI IASILR  
IRSTEGRSKAFSTCSSHILAVAVFFGSAAFMYLQPSSVSSMDQRKVSSVFYTTIVPMLNP  
QSIA

>sp|Q8N162|OR8H2\_HUMAN Olfactory receptor 8H2 OS=Homo sapiens GN=OR8H2 PE=3 SV=1  
MMGRRNNTNVADFILMGLTLSEEIQMALFMLFLLIYLITMLGNVGMILIIRLDLQLHTPM  
YFFLTHLSFIDLSYSTVVPKTLANLLTSNYISFTGCFAQMFFFAFLGTAECYLLSSMAH  
DRYAAICSPHLYTVIMSKRLCLALITGPYVIGFIDSFVNVVMSRLHFYDSNVIIHFFCD  
TSPILALSCTDTYNTILIFIIVGSTLMVSLFTISASYVFILFTILKINSTSGKQKAFST  
CVSHLLGVTIFYSTLIFTYLPKRSYSLGRDQVASVFYTIIVPVLNPLIYSLRNKEVKNA  
VIRVMQRRQDSR

>sp|Q8NGG1|OR8J2\_HUMAN Olfactory receptor 8J2 OS=Homo sapiens GN=OR8J2 PE=3 SV=2  
MASGNLTWVTEFILTGVSDDPQLIPLFLVFLVLYLLTVAGNLGIITLTSVDPQLQTPMY  
FFLRHLAIINLCNSTVVAPKMLVNFLVTKKTISSYGGCAAQLGGFLVFIVAEIFTLAAMAY  
DRYVAIWSPLLYAVVSPKVCRLLVSLTYLQSLITALTVSSCVFSVSYCSSNIINH FYCD  
DVPLLALSCSDTYIPETA VIFSGTNLLFSMIVVLISYFNIVITILIRISSEGRQKAFST  
CASHMIAVVVFYGTLLFMYLQPRSNHSLDTDKMASVFYTLVIPVLNPLIYSLRNKNVKDA  
LKRFLDNPCRSCLKM

>sp|Q8NGG0|OR8J3\_HUMAN Olfactory receptor 8J3 OS=Homo sapiens GN=OR8J3 PE=3 SV=1  
MAPENFTRVTEFILTGVSSCPQLIPLFLVFLVLYVLT MAGNLGIITLTSVDSRLQNPMY  
FFLRHLAIINLGNSTVIAPKMLMNFLVKKKTSFYECATQLGGFLFFIVSEVMMLAVMAY  
DRYVAICNPLLYMVVSRRLCLLVSLTYLYGFSTAIVVSPCIFSVSYCSSNIINH FYCD  
IAPLLALSCSDTYIPETIVFISAATNLVFSMITVLVSYFNIVLSILIRISPEGRKKAFST  
CASHMIAVTVFYGTMLFMYLQPQTNHSLDTDKMASVFYTLVIPMLNPLIYSLRNNDVNVA  
LKKFMENPCYSFKSM

>sp|Q8NGG5|OR8K1\_HUMAN Olfactory receptor 8K1 OS=Homo sapiens GN=OR8K1 PE=2 SV=1  
MNHVVKHNHTAVTKVTEFILMGITDNPLQAPLFGFLFLIIYLVTVIGNLGMVILTYLDSK  
LHTPMYFFLRHLSITDLGYSTVIAPKMLVNFIVHKNTISYNWYATQLAFFEIFI ISELF I  
LSAMAYDRYVAICKPLLYV IIMAEKVLWVLVIVPYLYSTFVSLFTIKLFKLSFCGSNII  
SYFYCDCIPLMSILCSDTNELELIILIFSGCNLLFSLIVLISYMFILVAILRMNSRKGR  
YKAFSTCSSHLTVVIMFYGTLLFIYLPKSSHTLAIDKMASVFYTLIPMLNPLIYSLRN  
KEVKDALKRTLNRFKIPI

>sp|Q8NH50|OR8K5\_HUMAN Olfactory receptor 8K5 OS=Homo sapiens GN=OR8K5 PE=3 SV=1  
MGQHNLTVLTEFILMELTRRPELQIPLFGVFLVIYLVITVGNLTMIIILTKLDSHLHTPMY

FSIRHLAFVDLGNSTVICPKVLANFVDRNTISYYACAAQLAFFLMFIISEFFILSAMAY  
DRYVAICNPLLYVIMSQRCLHVLVGIQYLYSTFQALMFTIKIFTLTFCGSNVISHFYCD  
DVPLLPMLCSNAQEIELLSILFSVFNLISSFLIVLVSYMLILLAICQMHSAGEGRKKAFST  
CGSHLTVVVVVFYGSLLFMYMQPNSTHFFDTDKMASVFYTLVIPMLNPLIYSLRNEEVKNA  
FYKLFEN

>sp|Q8NH09|OR8S1\_HUMAN Olfactory receptor 8S1 OS=Homo sapiens GN=OR8S1 PE=3 SV=2

MALGNHSTITEFLLGLSADPNIRALLFVLFLGIYLLTIMENLMLLMIRADSCLHKPMY  
FFLSHLSFVDLCFSSVIVPKMLENLLSQRKTISVEGCLAQVFFVFTAGTEACLLSGMAY  
DRHAAICRPILYQGIMGKQLYMHLVWGSWGLGFLDALINVLLAVNMVCEAKIIHHYSYE  
MPSLLPLSCSDISRSLIALLCSTLLHGLGNFLLVFLSYTRIISTILSISSTSGRSKAFST  
CSAHLTAVTLYYGSGLLRHLMPNSGSPIELIFSVQYTVVTPMLNSLIYSLKNKEVKGERS  
LRDSSHLPQLHKQARWKRPAPTEGRREPGHPELSIPVTPQPQACACSALRAAPTALP

>sp|Q13416|ORC2\_HUMAN Origin recognition complex subunit 2 OS=Homo sapiens GN=ORC2 PE=1  
SV=2

MSKPELKEDKMLEVHFVGDDDLNHLIDREGGAKLKKERAQLLVNPKKIIKKPEYDLEED  
DQEVLDQNYVEIMGRDVQESLNGSATGGGNKVYSFQNRKHSEKMAKLASELAKTPQKS  
VSFSLKNDPEITINVPQSSKGHSASDKVQPKNNDKSEFLSTAPRSLRKRLIVPRSHSDSE  
SEYSASNSDEDEGVAQEHEEDTNAVIFSQKIQAQNRVVSAPVGKETPSKRMKRDKTSDLV  
EEYFEAHSSSKVLTSDRTLQKLKRAKLDQQLRNLLSKVSPSFAELKQLNQYKELFHK  
WMLQLHLGFNIVLYGLGSKRDLLERFRTTMLQDSIHVVINGFFPGISVKSVLNSITEEVL  
DHMGTFRSILDQLDWIVNKFKESSLELFLIHNLDSQMLRGEKSQQIIGQLSSLHNIYL  
IASIDHLNAPLMWDHAKQSLFNWLWYETTTSPYTEETSYENSLLVKQSGSLPLSSLTHV  
LRSLTPNARGIFRLIKYQLDNQDNPSYIGLSFQDFYQQCREAFLVNSDLTLRAQLTEFR  
DHKLIRTKKGTGVEYLLIPVDNGTLTDFLEKEEEEEA

>sp|O43913|ORC5\_HUMAN Origin recognition complex subunit 5 OS=Homo sapiens GN=ORC5 PE=1  
SV=1

MPHLENNVLCRESQVSILQSLFGERHHFSFPSIFIYGHASGKTYVTQTLLKTLELPHVF  
VNCVECFTRLRLLEQILNKLNLHSSSEDGCSTEITCETFNDFVRLFKQVTTAENLKDQTV  
YIVLDKAEYLRDMEANLLPGFLRLQELADRNVTVLFLSEIVWEKFRPNTGCFEPFVLYFP  
DYSIGNLQKILSHDHPPEYSADFYAAYINILLGVFYTVCRDLKELRHLAVLNFPKYCEPV  
VKGEASERDTRKLWRNIEPHLKKAMQTVYLREISSQWEKLQKDDTDPGQLKGLSAHTHV  
ELPYYSKFILIAAYLASYNPARTDKRFFLKHGKIKKTNFLKKHEKTSNHLGPKPFPLD  
RLLAIFYIVDSRVAPTANIFSQITSLVTLQLLTLVGHDDQLDGPKYKCTVSLDFIRAIA  
RTVNFDIIKYLYDFL

>sp|Q9BZF2|OSBL7\_HUMAN Oxysterol-binding protein-related protein 7 OS=Homo sapiens  
GN=OSBPL7 PE=1 SV=1

MDFQERDPPFLPESAQQSKPSSAQQASELWEVVEEPRVRLGTEGVMPERQEGHLLKKRKW  
PLKGWHKRYFVLEDGILHYATTRQDITKGKLHGSIDVRLSVMSINKKAQRIDLDTEDNIY  
HLKIKSQDLFQSWVAQLRAHRLAHRDMPRGSPLSTAHRKVPGAQLPTAATASALPGLGP  
REKVSSWLRDSDGLDRCSHELSECQKQLQELHRLQSLESLEHRIAPSAPVIPTHQASVTTE  
RPKKGKRTSRMWCTQSFADDDTIGRVGRLHGSVPNLSRYLESRDSSGTRGLPPTDYAHLQ  
RSFWALAQQVHSSLSVLAALTMERDQLRDMHQGSELSRMGVSEASTGQRRHLHSLSTSSD  
TTADSFSSLNPEEQEALYMKGRELTPQLSQTSLSLADSHTEFFDACEVLLSASSSENEG  
SEEEESCTSEITTSLEMLDLRGAERCQKGGCVPGRPMGPPRRRCLPAASGPGADVSLW

NILRNNIGKDL SKVSM PVQLNEPLNTLQRLCEELEYSSLLDQASRIADPCERMVYIAAFA  
VSAYSSTYHRAGCKPFNPVLGETYECERPDRGFRFISEQVSHHPPISACHAESENFQFWQ  
DMKWKNKFWGKSLEIVPGTVNVSLPRFGDHFENKVTSCIHNVLSGQRWIEHYGEVLIR  
NTQDSSCHCKITFC KAKYWSSNVHEVQGAVLSRSGRVLHRLFGKWHEGLYRGPTPGGQCI  
WKPNMPPDHERNFQFTQFALELNELTAE LKRSLPSTDTRLRPDQRYLEEGNIQAEEAQK  
RRIEQLQRDRRKVMEENNIVHQARFFRRQTDSSGKEWWVTNNTYWRLRAEPGYGNMDGAV  
LW

>sp|Q96SU4|OSBL9\_HUMAN Oxysterol-binding protein-related protein 9 OS=Homo sapiens  
GN=OSBPL9 PE=1 SV=2

MASIMEGPLSKWTVNMKGWQYRWFLDYNAGLLSYTSDKMMRGSRRGCVRLRGAVIGI  
DDEDDSTFTITVDQKTFHFQARDADEREKWIHALEETILRHTLQLQLDSGFVPSVQDFD  
KKLTEADAYLQILIEQLKLFDDKLQNCKEDEQRKKIETLKETTNSMVESIKHCIVLLQIA  
KDQSNAEKHADGMISTINPVDAIYQPSLEPVISTMPSQTVLPPEPVQLCKSEQRPSLP  
VGPVLATLGHHQTPTPNSTGSGHSPSSSLTSPSHVNLSPNTVPEFSYSSSEDEFYDADE  
FHQSGSSPKRLIDSSGSASVLTHSSGNSLKRPDTTESLNSSLNGTSDADLFDSDHDDR  
DDAEAGSVEEHKSVIMHLLSQVRLGMDLTKVVLPTFILERRSLLEMYADFFAHPDLFVSI  
SDQKDPKDRMVQVVKWYLSAFHAGRKGSVAKKPYNPILGEIFQCHWTLPNDETELV  
EGPVPWVSKNSVTFVAEQVSHHPPISAFYAECFNKKIQFNAHIWTKSKFLGMSIGVHNIG  
QGCVSCLDYDEHYILTFPNGYGRSILTPWVELGGECNINCSKTGYSANIIFHTKPFYGG  
KKHRITAEIFSPNDKKSFCISIEGEWNGVMYAKYATGENTVFVDTKKLPIIKKKVRKLEDQ  
NEYESRSLWKDVTFLNKIRDIDAATEAKHRLERQRAEARERKEKEIQWETRLFHEDGEC  
WVYDEPLLKRLGAAKH

>sp|P32242|OTX1\_HUMAN Homeobox protein OTX1 OS=Homo sapiens GN=OTX1 PE=1 SV=1

MMSYLKQPPYGMNGLGLAGPAMDLLHPSVGYPATPRKQRRERTTFTRSQLDVLEALFAKT  
RYPDIFMREEVALKINLPESRVQVWFKNRRACKRQQQSGSGTKSRPAKKKSSPVRESSG  
SESSGQFTPPAVSSSASSSSASSSANPAAAAAGLGGNPVAAASSLSTPAASSIWSA  
SISPGSAPASVSVPEPLAAPSNTSCMQRSVAAGAATAAASYPMSYGGGSYGQGYPTSS  
SYFGGVDCSSYLAPMHSHHHPHLSPMAPSSMAGHHHHHPHAHHPLSQSSGHHHHHHHHH  
HQYGGSGLAFNSADCLDYKEPGAAAASSAWKLNFNNSPDCLDYKDQASWRFQVL

>sp|O14753|OVOL1\_HUMAN Putative transcription factor Ovo-like 1 OS=Homo sapiens GN=OVOL1  
PE=2 SV=3

MPRAFLVKKPCVSTCKRNWSELPEERGEIYVPVSLGFCPPQPYREPEPSVAEPPSCPLA  
LNMSLRDSSYSMAPGPCVVAQLPSEDMGHLTDPQSRDHGFLRTKMKVTLGDSPSGDLFTC  
RVCQKAFTYQRMNLNRHMKCHNDVKRHLCTYCGKGFNDTFDLKRHVRTHTGVRPYKCSLCD  
KAFTQRCSLESHLKKIHGVQQYAYKERRAKLYVCEECGCTSESQEGHVLHLKEHHPDSP  
LLRKTSKKVAVALQNTVTSLLQGSPHL

>sp|Q9BRP0|OVOL2\_HUMAN Transcription factor Ovo-like 2 OS=Homo sapiens GN=OVOL2 PE=1 SV=1

MPKVFLVKRRSLGVSVRWDELPEKRDYIPVGLGRLLHDPPEDCRSDDGSSSGSGSS  
SAGEPGGAESSSPHAPESETPEPGDAEGPDGHLATKQRPVARSKIKFTTGTCSDSVVHS  
CDLCGKGFRLQRMNLNRHLKCHNQVVRHLCTFCGKGFNDTFDLKRHVRTHTGIRPYKCNVC  
NKAFTQRCSLESHLKKIHGVQQYAYKQRRDKLYVCEDCGYTGPTQEDLYLVNSAHPGS  
SFLKKTSSKLAALLQGKLTAHQENTSLSEEEERK

>sp|Q96RQ9|OXLA\_HUMAN L-amino-acid oxidase OS=Homo sapiens GN=IL4I1 PE=1 SV=1

MAPLALHLLVLPILLSLVASQDWAERSQDPFEKCMQDPDYEQLLKVVVTWGLNRTLKPQ

RVIVVGAGVAGLVAAKVLSDAGHKVTILEADNRIGGRIFTYRDQNTGWIGELGAMRMPSS  
HRILHKL CQGLGLNLTKFTQYDKNTWTEVHEVKLRNYVVEKVPEKLGALRPQEKGHSPE  
DIYQMALNQALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPAVQLLDVMSSEDGFFY  
LSFAEALRAHSCLSDRLQYSRIVGGWDLPRALLSSLSGLVLLNAPVVAMTQGPHDVHVQ  
IETSPARNLKV LKADVLLTASGPAVKRITFSPPLPRHMQEALRRLHYVPATKVFLSFR  
RPFWREEHIEGGHSNTDRPSRMIFYPPPREGALLLASYTWSDAFAAGLSREEALRLAL  
DDVAALHGPVVRQLWDGTGVVKRWAEDQHSQGGFVVQPPALWQTEKDDWTVPYGRIYFAG  
EHTAYPHGWVETAVKSALRAAIKINSRKGPASDTASPEGHASDMEGQGHVHGVAASSPSHD  
LAKEEGSHPPVQGQLSLQNTTHTRTSH

>sp|Q96HP4|OXND1\_HUMAN Oxidoreductase NAD-binding domain-containing protein 1 OS=Homo sapiens GN=OXNAD1 PE=1 SV=1

MACAAVMIPGLLRCSVGAI RIEAASLRLTLSTLRHLTLTSIMKSKRKTDHMERTASVLRR  
EIVSAAKVCGAASESPSVKSLRLLVADQDFSFKAGQWVDFIPGVSVVGGFSICSSPRLL  
EQERVIELAVKYTNHPPALVWHNTCTLDCEVAVRVGGEFFDPQPADASRNVLVIAGGVG  
INPLLSILRHAADLLREQANKRNGYEIGTIKLFYSAKNTSELLFKKNILDLVNEFPEKIA  
CSLHVTKQTTQINAELKPYITEGRITEKEIRDHISKETLFYICGPPMTDFFSKQLENNH  
VPKEHICFEKWW

>sp|Q8N573|OXR1\_HUMAN Oxidation resistance protein 1 OS=Homo sapiens GN=OXR1 PE=1 SV=2

MTKDKNSPGLKKKSQSV DINAPGFNPLAGAGKQTPQASKPPAPKTPIIEEEQNNAANTQK  
HPSRRELKRFYTIDTGQKKTLDKKDGRMSFQKPKGTIEYTVESRDSLNSIALKFDTTP  
NELVQLNKLFSRAVVTGQVLYVPDPEYVSSVESSPSLSPVSPLSPTSSEAEFDKTTNPDV  
HPTEATPSSTFTGIRPARVVSSTSEEEAFTEKFLKINCKYITSGKGTVSGVLLVTPNNI  
MFDPHKNDPLVQENGCEEYGIMCPMEEVMSAAMYKEILDSKIKESLPIDIDQLSGRDFCH  
SKKMTGSNTEEIDSRIRDAGNDSASTAPRSTEESESLSEVFTSELSPIREELVSSDEL RQ  
DKSSGASSESVQTVNQAEVESLTVKSESTGTPGHLRSDTEHSTNEVGT LCHKTDLNNLEM  
AIKEDQIADNFQGISGPKEDSTS IKGNSDQDSFLHENS LHQEESQKENMPCGETAEFKQK  
QSVNKGKQKQEQNQDSQTEAEELRKLWKTHTMQQTKQQRENIQQVSQKEAKHKITSADGH  
IESSALLKEKQRHLHKFLCLRVGKPMRKTFVSQASATMQQYAQRDKKHEYWF AVPQERT  
DHLYAFFIQWSPEIYAEDTGEYTREPGFIVVKKIEESETIEDSSNQAAAREWEVVSVAEY  
HRRIDALNTEELRTL CRRLQITTREDINSKQVATVKADLESESF RPNLSDPSELLLPDQI  
EKLTKHLPRTIGYPWTLVYGTGKHGTS LKTLYRTMTGLDTPVLMVIKDSGQVFGALAS  
EPLKVS DGFYGTGETFVFTFCPEFEVFKWTDGNMFFIKGDMDSLAFGGGGGEFALWLDGD  
LYHGRSHSCKTFGNRTL SKKEDFFIQDIEI WAFE

>sp|Q9NWU1|OXSM\_HUMAN 3-oxoacyl-[acyl-carrier-protein] synthase, mitochondrial OS=Homo sapiens GN=OXSM PE=1 SV=1

MSNCLQNFLKITSTRLLCSRLCQQLRSKRKFFGTVPISRLHRRVVITGIGLVTP LGVGTH  
LVWDRLIGGESGIVSLVGEEYKSI PCSVAAYVPRGSDEGQFNEQNFVSKSDIKSMSSPTI  
MAIGAAELAMKDSGWH PQSEADQVATGVAIGMGMIPLEVVSETALNFQTKGYNKVSPFFV  
PKILVNMAAGQVSIRYKLKGP NHAVSTACTTGAVGDSFRFIAHGDADVMVAGGTDSCI  
SPLSLAGFSRARALSTNSDPKLACRPFH PKRDGFVMGEAAVLVLEEYEHAVQRRARIYA  
EVLGYGLSGDAGHITAPDPEGEGALRCMAAALKDAGVQPEEISYINAHATSTPLGDAAEN  
KAIKHLFKDHAYALAVSSTKGATGHLLGAAGAVEAAFTTLACYYQKL PPTLNLDCEPEF  
DLNYVPLKAQEWKTEKRFI GLTNSFGFGGTNATLCIAGL

>sp|Q96HA1|P121A\_HUMAN Nuclear envelope pore membrane protein POM 121 OS=Homo sapiens  
GN=POM121 PE=1 SV=2

MSPAAAAAGAGERRRPIASVRDGRGRGCGPARAVLLGLSLVGLLLYLVPAAAAALAWLTV  
GATAAWWGLSREPRGSRPLSSFVRKARHRRPLSSFVRKARHRRTLFASPLAKSTANGNLL  
EPRTLLEGPDPAELLMLGSYLKGKPPQAAAPEGQDLDRPGRRPPARPAPRSPPPRSP  
PPRSPPSPPTTHRAHHVYPSLPTLLRPSRRPSPRDCGTLNRFVITPRRRYPPIHQAQYS  
CLGVLPTVCWNGYHKKAVLSRNSRMVCSPVTVRIAPPDRRFSRSAIPEQIISSTLSSPS  
SNAPDPCAKETVLSALKEKEKKRTVEEDQIFLDGQENKRRRHSSGSGHSAFEPLVANG  
VPASFVPKPGSLKRGLNSQSSDHLNKRSSSSMSSLTGAYASGIPSSSRNAITSSYSST  
RGISQLWKRNGPSSSPFSPASSRSQTPERPAKKIREELCHSSSSTPLAADRESQGEK  
AADTTPRKKNNSQSTPGSSGQRKRKVQLLPSRRGEQLTLPPLPQLGYSITAEDLDLEK  
KASLQWFNQALEDKSDAASNSVTETPPITQPSFTFTLPAAAPASPPTSLLAPSTNPLES  
LKKMQTPPSLPPCPESAGAATTEALSPPKTPSLLPPLGLSQSGPPGLLSPSFDSPPTT  
LLGLIPAPSMVPATDTKAPPTLQAETATKPQATSAPSPAPKQSFLFGTQNTSPSSPAAPA  
ASSAPPMFKPIFTAPPKSEKEGTPPGPSVTATAPSSSSLPTTTSTTAPTQFQVFSSMGP  
PASVPLPAPFFKQTTTPATAPTTTAPLFTGLASATSAVAPITSASPSTDSASKPAFGFGI  
NSVSSSSVSTTTSTATAASQPFLFGAPQASAASFTPAMGSIFQFGKPPALPTTTTFTFS  
QSLHTAVPTATSSSAADFSGFGSTLATSAPATSSQPTLTFSNTSTPTFNIPFGSSAKSPL  
PSYPGANPQAFGAAEGQPPGAAPALAPSFSGSFTFGNSAAPAAAPTAPPSPMIKVVPA  
YVPTPIHPIFGGATHSAFLKATASAFGAPASSQPAFGGSTAVFFGAATSSSGFGATTQTA  
SSGSSSSVFGSTTPSFFTFGGSAPAGSGSFGINVATPGSSTTTGAFSFGAGQSGSTATS  
TPFAGGLGQNALGTTGQSTPFAFNVSSSTTESKPVFGGTATPTFGLNTPAPGVGTSGSSLS  
FGASSAPAQGFVGVPFGSAALSFSIGAGSKTPGARQRLQARRQHTRKK

>sp|Q8IYS5|OSCAR\_HUMAN Osteoclast-associated immunoglobulin-like receptor OS=Homo sapiens  
GN=OSCAR PE=1 SV=3

MALVLIQLLTLWPLCHTDITPSVPPASYHPKPWLGAQPATVVTPGVNVTLCRAPQPAW  
RFGLFKPGEIAPLLFRDVSSSLAEFFLEEVTPAQGGIYRCCYRRPDWGPVWSQPSDVLE  
LLVTEELPRPSLVALPGPVVPGGANVSLRCAGRLRNMSFVLYREGVAAPLQYRHSAPWA  
DFTLLGARAPGTYSYHTPSAPYVLSQRSEVLVISWEGEGPEARPASSAPGMQAPGPPP  
SDPGAQAPSLSSFRPRGLVLQPLLQTDQSWDPAPPPSDPGV

>sp|Q9NX31|OSER1\_HUMAN Oxidative stress-responsive serine-rich protein 1 OS=Homo sapiens  
GN=OSER1 PE=1 SV=2

MKSEAKDGEEESLQTAFFKKLRVDASGSVASLSVGEGTGVRAPVRTATDDTKPKTTCASKD  
SWHGSTRKSSRGAVRTQRRRRSKSPVLHPPKFIHCSTIASSSSSQLKHKSQTDSPDGSSG  
LGISSPKEFSAGESSTSLDANHTGAVVEPLRTSVPRLPSESKKEDSSDATQVPQASLKAS  
DLSDFQSVSKLNQGKPCCTIGKECQCKRWHDEYVSFSGLSQSVPLAPERRSTLEDYSQS  
LHARTLSGSPRSCSEQARVFVDDVTIEDLSGYMEYYLYIPKKMSHMAEMMYT

>sp|Q8TAX0|OSR1\_HUMAN Protein odd-skipped-related 1 OS=Homo sapiens GN=OSR1 PE=2 SV=1

MGSKTLPAPVPIHPSLQLTNYSFLQAVNGLPTVPSDHLNLYGFSALHAVHLHQWTLGYP  
AMHLPRSSFSGKVPGTVSSLDARFQLPAFPWFPHVIQPKPEITAGGSVPALKTKPRFDFA  
NLALAATQEDPAKLGRGEGPGSPAGGLGALLDVTKLSPEKKPTRGRLPSTKKEFVCKFC  
GRHFTKSYNLLIHERHTDERPYTCDICHKAFFRRQDHLRDHRYIHSKEKPFKCQECGKGF  
CQSRTLAVHKTLSQVKELKTSKIKC

>sp|P39656|OST48\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Homo sapiens GN=DDOST PE=1 SV=4

MGYFRCARAGSFRRRKMEPSTAARAWALFWLLLPLLGAVCASGPRTLVLDDNLNVRETH  
SLFFRSLKDRGFELTFKTADDPSSLIKYGEFLYDNLIIFSPSVEDFGGNINVETISAFI  
DGGGSVLVAASSDIGDPLRELGSECGIEFDEEKTAVIDHHNYDISDLGQHTLIVADTENL  
LKAPTIVGKSSLNPIILFRGVGMVADPDNPLVLDILTGSSTSYSFDPKPITQYPHAVGKN  
TLIIAGLQARNNARVIFSGSLDFFSDSFFNSAVQKAAPGSQRYSTGNYELAVALSrwvf  
KEEGVLRVGPVSHHRVGETAPPNAYTVTDLVEYSIVIQQLSNGKWVPFDGDDIQLEFVRI  
DPFVRTFLKKKGGKYSVQFKLPDVYGVFQFKVDYNRLGYTHLYSSTQVSVRPLQHTQYER  
FIPSAYPYASAFSMMGLGFIFSIVFLHMKEKEKSD

>sp|Q86UW1|OSTA\_HUMAN Organic solute transporter subunit alpha OS=Homo sapiens GN=SLC51A PE=2 SV=1

MEPGRTQIKLDPRYTADLLEVLKTNYGIPSACFSQPPTAAQLLRALGPVELALTSILTLL  
ALGSIAIFLEDAVLYKNTLCPIKRRTLLWKSSAPTvvsvlccfGLWIPRSLVLVEMTIT  
SFYAVCFYLLMLMVEGFGKEAVLRTLRTPMVHTGCCCCCPCPRLLLTRKKLQLL  
MLGPFQYAFLKITLTLVGLFLVPDGIYDPADISEGSTALWINTFLGVSTLLALWTLGIIS  
RQARLHLGEQNMGAKFALFQVLLILTALQPSIFSVLANGGQIACSPPYSSKTRSQVMNCH  
LLILETFLMTVLTRMYRRKDHKVGyETfSSPDLDLNLKA

>sp|P02818|OSTCN\_HUMAN Osteocalcin OS=Homo sapiens GN=BGLAP PE=1 SV=2

MRALTLLALLALAALCIAGQAGAKPSGAESSKGAAFVSKQEGSEVVKRPRRYLYQWLGAP  
VPYPDPLEPRREVCELNPDCDELADHIGFQEAYRRFYGPV

>sp|Q92882|OSTF1\_HUMAN Osteoclast-stimulating factor 1 OS=Homo sapiens GN=OSTF1 PE=1 SV=2

MSKPPKPKVPGQVKVFRALYTFEPRTPELYFEEDGDIYITDMSDTNWWKGTSKGRTGL  
IPSNYVAEQAESIDNPLHEAAKRGNSWLRECLDNRVGVNGLDKAGSTALYWACHGGHKD  
IVEMLFTQPNIELNQKNLGD TALHAAWKGyADIVQLLLAKGARTDLRNIKKLAFDMA  
TNAACASLLKKKQGTDAVRTLSNAEDYLDDESD

>sp|P61366|OSTN\_HUMAN Osteocrin OS=Homo sapiens GN=OSTN PE=2 SV=1

MLDWRLASAHFILAVTLTLWSSGKVLSDVTTTEAFDSGVIDVQSTPTVREEKSATDLTA  
KLLLLDELVSLENDVIETKKKRSFSGFSGPLDRLSAGSVDHKGKQRKVVDHPKRRFGIPM  
DRIGRNRLSNSRG

>sp|Q7RTS6|OTOP2\_HUMAN Otopetrin-2 OS=Homo sapiens GN=OTOP2 PE=2 SV=3

MSEELAQGPKEPAPRAGPREVWKKGRLLSVLLAVNVLLLACTLISGGAFNKVAVYDT  
DVFALLTAMMLLATLWILFYLLRTVRCPCAVPYRDAHAGPIWLRGGLVLFGICTLIMDVF  
KTGYSSSFECQSAIKILHPLIQAVFVIIQTYFLWVSAKDCVHVHLDLTWCGLMFTLTN  
LAIWMAAVVDESvhqshsyssshsnasharLISDQHADNPVGGDSCLCSTAVCQIFQQGY  
FYLYPFNIEYSLFASTMLYVMWKNVGRFLASTPGHSHTPTPVSLFRETFAGPVLGLLLF  
VVGLAVFIIIEVQVSGDSRTRQALVIYYSFNIVCLGLTTLVSLSGSIIYRFDRRAMDHH  
KNPRTLdVALLMGAALGQYAISSYIVAVVAGTPQDLLAGLNLTHALLMIAQHTFQNMf  
IIESLHRGPPGAEPHSTHPKEPCQDLTFTNLDALHTLSACPPNPGLVSPSPSDQREAVAI  
VSTPRSQRWRRQCLDISLFLLLCNVILWIMPAFGARPHFSNTVEVDFYGYSLWAVIVNIC  
LPFGIFYRMHAVSSLLEVYVLS

>sp|Q7L8S5|OTU6A\_HUMAN OTU domain-containing protein 6A OS=Homo sapiens GN=OTUD6A PE=1 SV=1

MDDPKSEQQRILRRHQERQELQAQIRSLKNSVPKTDKTKRKQLLQDVARMEAEQAQKHR

QELEKFQDDSSIESVVEDLAKMNLNRPSSKAHRKRERMESEERERQESIFQAEMSEH  
LAGFKREEEEEKLAAILGARGLEMKAIPADGHCMYRAIQDQLVFSVSVEMLCRTASYMKK  
HVDEFLPFFSNPETSDFSFGYDDFMIYCDNIVRTTAWGGQLELRALSHVLKTPIEVIQADS  
PTLIIGEEYVKKPIILVYLRYAYSLGEHYNSVTPLEAGAAGGVLPRLL

>sp|095747|OXSR1\_HUMAN Serine/threonine-protein kinase OSR1 OS=Homo sapiens GN=OXSR1 PE=1  
SV=1

MSEDSSALPWSINRDDYELQEVI GSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMDEL  
LKEIQAMSQCCHPNIVSYTTSFVVKDELWLVKLLSGGSVLDIIKHIVAKGEHKSGVLDE  
STIATILREVLEGLEYLHKNGQIHRDVKAGNILLGEDGSVQIADFGVSAFLATGGDITRN  
KVRKTFVGTPCWMAPEVMEQVRGYDFKADIWSFGITAIELATGAAPYHKYPPMKVLM LTL  
QNDPPSLETGVQDKEMLKKGKSFVKMISLCLQKDEKRPATAELLRHKFFQKAKNKEFL  
QEKTLQRAPTISERAKKVRVPVGGSSGRLHKTEDGGWEWSDEFDEESEEGKAAISQLRSP  
RVKESISNSELFPPTDPVGTLLQVPEQISAHLPQPAGQIATQPTQVSLPPTAEPAKTAQA  
LSSGSGSQETKIPISLVRLRNSKKELNDIRFEFTPGRDTAEGVSQELISAGLV DGRDLV  
IVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLSIS

>sp|Q3SYA9|P12L1\_HUMAN Putative POM121-like protein 1 OS=Homo sapiens GN=POM121L1P PE=5  
SV=2

MDSLWGPAGSHPFVHNSRLSPDLCPGKIVLRALKESGAGMPEQDKDPRVQENPGDQRR  
VPEVTGDAPSAFRPLRDNGGLSPFVPGPGPLQTDLHAQRSEIRYNQTSQTSWTSSCTNRN  
AIISSYSSTGGLPGLKRRRGPASSHCQLTLSSSKTVSEDRPQAVSSGHTQCEKVAEIPG  
QTLALRNDSSRSEASRPSTRKFLLPRRRGEPLMLPPPVELGYRVTAEDLDWEKEAAFQC  
IKSALQVEDKAISDCRPSRPSHTLSSLATGASGLPAVSKAPSMDAQQERHKSQDCLGLVA  
PLASATEVPSTAPMSGEKHRPPGLFSSSDPLPATSSHSQDSAQVTS LIPAPFPAASMDA  
GMRRTRPGTSAPAAAAAAPPSTLNRTLGSLLWMEALHISGPQPQLQVPRGQNRQSQT  
SRTSSCPK

>sp|Q969Q6|P2R3C\_HUMAN Serine/threonine-protein phosphatase 2A regulatory subunit B' ,  
subunit gamma OS=Homo sapiens GN=PPP2R3C PE=1 SV=1

MDWKEVLRRRLATPNTCPNKKKSEQELKDEEMDLFTKYSEWKGGRKNTNEFYKTIPRFY  
YRLPAEDEVLLQKLREESRAVFLQRKSRELLDNEELQNLWFLLDKHQTPPMIGEEAMINY  
ENFLKVGEKAGACKQFFTAKVFAKLLHTDSYGRISIMQFFNYVMRKVWLHQTRIGLSLY  
DVAGQGYLRESLENYILEIPTLPQLDGLEKSFYSFYVCTAVRKFFFFLDPLRTGKIKI  
QDILACSFLDDLLELRDEELSKESQETNWFSA PSALRVYGQYLNLDKDHNGMLSKEELSR  
YGTATMTNVFLDRVFQECLTYDGEDYKTYLDFVLALENRKEPAALQYIFKLLDIENKGY  
LNVFSLNYFFRAIQELMKIHGQDPVSFQDVKDEIFDMVKPKDPLKISLQDLINSNQGDTV  
TTILIDLNGFWTYENREALVANDSENSADLDDT

>sp|Q99571|P2RX4\_HUMAN P2X purinoceptor 4 OS=Homo sapiens GN=P2RX4 PE=1 SV=2

MAGCCAAALAAFLFEYDTPRIVLIRS RKVGLMNRVQLLILAYVIGWVFWVEKGYQETDSV  
VSSVTTKVKGAVTNTSKLGFRIWDVADYVIPAQEENSLFVMTNVILTMNQTQGLCPEIP  
DATTVCSDASCTAGSAGTHSNGVSTGRCVAFNGSVKTC EVAAWCPVEDDTHVPQPAFLK  
AAENFTLLVKNNIWIYPKFNFSKRNL PNITTTYLKSCIYDAKTDPFCEIFRLGKIVENAG  
HSFQDMAVEGGIMGIQVNWDCNLDRAASLCLPRYSFRRLDTRDVEHNVSPGYNFRFAKYY  
RDLAGNEQRTLKAYGIRFDIIVFGKAGKFDI IPTMINIGSGLALLGMATVLCDIIVLYC  
MKKRLYYREKKYKYVEDYEQGLASELDQ

>sp|Q99572|P2RX7\_HUMAN P2X purinoceptor 7 OS=Homo sapiens GN=P2RX7 PE=1 SV=4



MPACCSGSDVFQYETNKVTRIQSMNYGTIKWFFHVIIFSYYVCFALVSDKLYQRKEPVISS  
VHTKVKGIAEVKEEIVENGVKKLVSFVDTADYTFPLQGNSSFFVMTNFKTEGQEQLCP  
EYPTRRTLCSSTRGCKKGWMDPQSKGIQTGRCVVYEGNQKTCEVSAWCPTEAVEEAPRPA  
LLNSAENFTVLIKNNIDFPGHNYTTRNPLGLNITCTFHKTNPQCPIFRLGDI FRETGD  
NFSDAIQGGIMGIEIYWCNLD RWFHCRPKYSFRRLDDKTTNVS LYPGYNFRYAKYYK  
ENNVEKRTLKVFGRFDILVFGTGKFDIIQLVVYIGSTLSYFGLAAVFIDFLIDTYSS  
NCCRSHIYPWCKCCQPCVVNEYYYRKKCESIVEPKPTLKYSFVDESHIRMVNQQLGRS  
LQDVKGQEVPRPAMDFTDL SRLPLALHDTPIPGQPEEIQLLRKEATPRS RDS PVWCQCG  
SCLPSQLPESHRCLEELCCRKKPGACITTS ELFRLVLSRHVLQFLLLYQEPLALD VDS  
TNSRLRHCA YRCYATWRFGSQDMADFAILPSCCRWRIRKEFPKSEGQYS GFKSPY

>sp|000443|P3C2A\_HUMAN Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing  
subunit alpha OS=Homo sapiens GN=PIK3C2A PE=1 SV=2

MAQISSNSGFKECPSSHPEPTRAKDVKEEALQMEAEALAKLQKDRQVTDNQRFELSSS  
TRKKAQVYNKQDYDLMVFPESDSQKRALDIDVEKLTQAELEKLLD DSFETKKT PVL PVT  
PILSPSFSAQLYFRPTIQRGQWPPGLPGPSTYALPSIYPSTYSKQAAFQNGFNPRMPTFP  
STEP IYLSLPGQSPYFSYPLTPATPFHPQGS LPIYRPVVSTDMAKLFDKIASTSEFLKNG  
KARTDLEITDSKVSNLQVSPKSEDISKFDWLDL DPLSKPKVDNVEVLDHEEEKNVSSLLA  
KDPWD AVLLEERSTANCHLERKVNKSLSVATVTRSQSLNIRTTQLAKAQGHISQKDPNG  
TSSLPTGSSLLQEVEVQNEEMAAFCRSITKLKTKFPYTNHRTNPGYLLSPVTAQRNICGE  
NASVKVSIIDIEGFQLPVTFCTDVSSTVEIIIMQALCWVHDDL NQVDVGSYVLKVCQGEEV  
LQNNHCLGSHEHIQNCRKWDTEIRLQLLTFSAMCQNLARTAEDETPVDLNKHL YQIEKP  
CKEAMTRHPVEELDSYHNQVELALQIENQHRAVDQVIKAVRKICSALDGVETLAITESV  
KKLKRAVNLPRSKTADVTSLFGGEDTSRSSTRGSLNPENPVQVSINQLTAAIYD LLRLHA  
NSGRSPTDCAQSSKSVEAWTTTEQLQFTIFAAHGISSNWVS NYEKYYLICSLSHNGKDL  
FKPIQSKKVGTYKNFFYLIKWDELIIFPIQISQLPLESVLH LTLFGILNQSSGSSPDSNK  
QRKGPEALGKVS LPLFDFKRFLT CGTKLLYLWTSSTNSVPGTVTKGYVMERIVLQVDF  
PSPAFDIIYTT PQVDRSIIQQHNLETLENDIKGKLLDILHKDSSLGLSKEDKAFLWEKRY  
YCFKHPNCLPKILASAPNWKVNLAKTYSLLHQWPALYPLIALELLDSKFADQEVRS LAV  
TWIEAISDDELTDLLPQFVQALKYEIYLNSSLVQFLLSRALGNIQIAHNLYWLLKDALHD  
VQFSTRYEHVLGALLSVGGKRLREELLKQTKLVQLLGGVAEKVRQASGSARQVVLQRSME  
RVQSFFQKNKCRPLKPSLVAKELNIKSCSFFSSNAVPLKVTMVNADPMGEEINVMFKVG  
EDLRQDMLALQMIKIMDKIWLKEGLDLRMVIFKCLSTGRDRGMVELVPASDTLRKIQVEY  
GVTGSFKDKPLAEWL RKYNPSEEEYEKASENFIYSCAGCCVATYVLGICDRHNDNIMLRS  
TGHMFHIDFGKFLGHAQMFGSFKRDRAPFVLTSDMAYVINGGEKPTIRFQLFVDLCCQAY  
NLIRKQTNLFLNLLSLMIPSGLPELTSIQDLKYVRDALQPQTDAEATIFFTRLIESSLG  
SIATKFNFFIHNLAQLRFSGLPSNDEPILSFSPKTY SFRQDGRIKEVSVFTYHKKYNPDK  
HYIYVVRILREGQIEPSFVFRFTDEFQELHNKLSIIFPLWKLPGFPNRMVLGRTHIKDVA  
AKRKIELNSYLQSLMNASTDVAECDLVCTFFHPLL RDEKAEGIARSADAGSF SPTPGQIG  
GAVKLSISYRNGTLFIMVMHIKDLVTEDGADPNPYVKTYLLPDNHKTSKRKTKISRKTRN  
PTFNEMLVYSGYSKETLRQRELQLSVLSAESLRENFFLGGVTLPLKDFNL SKETVKWYQL  
TAATYL

>sp|Q32P28|P3H1\_HUMAN Prolyl 3-hydroxylase 1 OS=Homo sapiens GN=P3H1 PE=1 SV=2  
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ALRSRAALRALRLRCRTQCAADF PWELDPDWSPSPAQASGAAALRDL SFFGGLLRRAACL

RRCLGPPAAHSLSEEMELEFRKRSPYNYLQVAYFKINKLEKAVAAAHTFFVGNPEHMEMQ  
QNLDYYQTMSGVKEADFKDLETQPHMQEFRLGVRLYSEEQPQEAVPHLEAALQEYFVAYE  
ECRALCEGPYDYGNYLEYNADLFQAITDHYIQVLNCKQNCVTELASHPSREKPFEDFL  
PSHYNYLQFAYYNIGNYTQAVECAKTYLLFFPNDEVMNQNLAYYAAMLGEEHTRSIGPRE  
SAKEYRQRSLLKELLFFAYDVFGIPFVDPDSWTPEEVIPKRLQEKQKSERETAVRISQE  
IGNLMKEIETLVEEKTESLDVSRLTREGGPLLYEGISLTMNSKLLNGSQRVVMDGVISD  
HECQELQRLTNVAATSGDGYRGQTSPHTPNEKFYGVTVFKALKLGQEGKVPQLQSAHLYYN  
VTEKVRIMESYFRLDTPLYFSYSHLVCRTAIEEVQAERKDDSHPVHVDNCILNAETLVC  
VKEPPAYTFRDYSAILYLNDFDGGNFYFTELDAKTVTAEVQPQCGRVGFSSGTENPHG  
VKAVTRGQRCAIALWFTLDRHSERDRVQADDLVKMLFSPEEMDLSQEQLDAQQGPPEP  
AQESLSGSESKPKDEL

>sp|POC869|PA24B\_HUMAN Cytosolic phospholipase A2 beta OS=Homo sapiens GN=PLA2G4B PE=1  
SV=2

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NQSFHFRIHRQLKNVMELKVFDQDLVTGDDPVLVLFDAAGTLRAGEFRRESFSLSPQGEG  
RLEVEFRLQSLADRGWLVSNGLVARELSCLHVQLEETGDQKSSEHRVQLVVPGSCEGP  
QEASVGTGTFRFHCPACWEQELSIRLQDAPEEQKAPLSALPSGQVVRLVFPTSQEPLMR  
VELKKEAGLRELAVRLGFGPCAEEQAFLSRRKQVVAALRQALQLDGDQLQEDEIPVVAIM  
ATGGGIRAMTSLYGQLAGLKELGLDCVSYITGASGSTWALANLYEDPEWSQKDLAGPTE  
LLKTQVTKNKLGVLAPSQLQRYRQELAERARLGYPSCFTNLWALINEALLHDEPHDHKLS  
DQREALSHGQNPLPIYCALNTKGQSLTTFEFGWCEFSPEYVGFPHYGAFIPSELFGESEF  
FMGQLMKRLPESRICFLEGIWSNLYAANLQDSLYWASEPSQFWDRWVRNANLDKEQVPL  
LKIEEPPSTAGRIAEFFTDLLTWRPLAQATHNFLRGLHFHKDYFQHPHFSTWKATTLTG  
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QGIPFPPISPSPEEQQLPRECHTFSDPTCPGAPAVLHFPLVSDSFREYSAPGVRRTPEEA  
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H

>sp|Q86XP0|PA24D\_HUMAN Cytosolic phospholipase A2 delta OS=Homo sapiens GN=PLA2G4D PE=1  
SV=2

MESLSPGGPPGHPYQGEASTCWQLTVRVLEARNLRWADLLSEADPYVILQLSTAPGMKFK  
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RKTFSSQSPQGEELDVEFLMEETSDRPENLITNKVIVARELSCLDVHLDSTGSTAVVADQ  
DKLELELVLGSYEDTQTSFLGTASAFRFHYMAALETESGRLRSSRSNGWNGDNSAGYL  
TVPLRPLTIGKEVTMDVPAPNAPGVRLQLKAEGCPEELAVHLGFNLCAEEQAFLSRRKQV  
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SGSTWTMAHLYGDPEWSQRDLEGPTRYAREHLAKSKLEVFSPELASYRRELELRAEQGH  
PTTFVDLWALVLESMLHGQVMDQKLSGQRAALERGQNPLPLYLSLVKENNLETLDKFEW  
VEFSPYEVGFLKYGAFVPELFGSEFFMGRLMRRIPERICFLEAIWSNIFSLNLLDAWY  
DLTSSGESWKQHIKDKTRSLEKEPLTSGTSSRLEASWLQPGTALAQAQFGFLTGRPLHQ  
RSPNFLQGLQLHQDYCSHKDFSTWADYQLDSMPSQLTPKEPRLCLVDAAYFINTSSPSMF  
RPGRRDLILSFDYLSAPFEALQQTELYCRARGLPFPRVEPSQDQHQPRECHLFSDDPA  
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>sp|Q3MJ16|PA24E\_HUMAN Cytosolic phospholipase A2 epsilon OS=Homo sapiens GN=PLA2G4E PE=2 SV=3

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NGVLVVIIFLGSCSSRGHWLLLSGEQDQGRKQWAQLVKDLLVMVNESFENTQRRVPCLE  
PCCPTSACFQTAACFHYPKYFQSQVHVEVPKSHWSCGLCCRSRKKGPISQPLDCLSDGQV  
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LIAIMATGGGTRSMYSMYGHLGLQKLNLLDCASYITGLSGATWTMATLYRDPDWSSKNL  
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ECKLSDQRAALSCGQNPPIYL TINVKDDVSNQDFREWFESPYEVLQKYGAFIPSELF  
GSEFFMGRLVKRIPESTRICYMLGLWSSIFSLNLLDAWNLSHTSEEFFHRWTREKVQDIED  
EPILPEIPKCDANILETTVVIPGSWLSNSFREILTHRSFVSEFHNFLSGLQLHTNYLQNG  
QFSRWKDTVLDGFPNQLTESANHLCLLDTAFFVNSSYPPLLRPERKADLI IHLNYCAGSQ  
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>sp|Q68DD2|PA24F\_HUMAN Cytosolic phospholipase A2 zeta OS=Homo sapiens GN=PLA2G4F PE=2 SV=3

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GSDQLSLLFLDLRSLKCGQPHKHTFPLNHQDSQELQVEFVLEKSQVPASEVITNGVLVAH  
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LSSRLHVELMELLA AVQSGPSAELEAQT SKLGEGGILLSSPLGQEEQCSVALGEGQEVA  
LSMKVEMSSGDLRLRGFDLSDGEQEFLDRRKQVVS KALQQVLGLSEALDSGQVPVAVL  
GSGGGTRAMSSLYGSLAGLQELGLLDTVTYLSGVSGSTWCISTLYRDPAWSQVALQGPIE  
RAQVHVCSSKMGALSTERLQYYTQELGVRERSGHSVSLIDLWGLLVEYLLYQEENPAKLS  
DQQEAVRQGNPYPIYTSVNVRTNLSGEDFAEWCEFTPYEVGF PKYGAYVPTELFGSELF  
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HPDAFPNQLTPMRDCLYLDVGGA INSPFPLALLPQRAVDLILSFDYSLEAPFEVLKMTE  
KYCLDRGIPFPSIEVGPEDMEEARECYLFAKAEDPRSPIVLHFPLVNRTFRTHLAPGVER  
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HQA RERAGA

>sp|P14555|PA2GA\_HUMAN Phospholipase A2, membrane associated OS=Homo sapiens GN=PLA2G2A PE=1 SV=2

MKTLLLLAVIMIFGLLQA HGNLVNFHRMIKLTGKEAALSYFGYCHCGVGGRGSPKDAT  
DRCCVTHDCCYKRLEKRGCGTKFLSYKFSNSGSRITCAKQDSCRSQLCECDKAAATCFAR  
NKTTYNKKYQYYSNKHCRGSTPRC

>sp|Q9NZK7|PA2GE\_HUMAN Group IIE secretory phospholipase A2 OS=Homo sapiens GN=PLA2G2E PE=1 SV=1

MKSPHVLVFLCLLVALVTGNLVQFGVMIEKMTGKSALQYNDYGCYCGIGGSHWPVDQTDW  
CCHAHDCCYGRLEKLGCPEKLEKYLFSVSERGIFCAGRITTCQRLTCECDKRAALCFRRNL  
GTYNRKYAHYPNKLCTGTPPC

>sp|Q9H361|PABP3\_HUMAN Polyadenylate-binding protein 3 OS=Homo sapiens GN=PABPC3 PE=1 SV=2

MNPSTPSYPTASLYVGDLPDVTTEAMLYEKFSPAGPILSIRICRDLITSGSSNYAYVNFQ  
HTKDAEHALDTMNFVDVIGKGPVRIMWSQRDPSLRKSGVGNIFVKNLDKSINNKALYDTVS  
AFGNILSCNVVCDENGSKGYGFVHFETHEAAERAIAKKMNGMLLNGRKVFVGQFKSRKERE  
AELGARAKEFPNVYIKNFGEDMDDERLKDLFGKFGPALSVKVMTDESGKSKGFGFVSFER  
HEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRTFEQMKQDRITRYQVVNLVYKN  
LDDGIDDERLRKAFSPFGTITSAKVMMEGGRSKGFGFVCFSSPEEATKAVTEMNGRIVAT  
KPLYVALAQRKEERQAYLTNEYMQRMASVRAVPNQRAPPSGYFMTAVPQTQNHAAAYPPS  
QIARLRPSRWTAQGARPFPFNKPSAIRPGAPRVPFSTMRPASSQVPRVMSTQRVANTS  
TQTVGPRPAAAAAATPAVRTVPRYKYAAGVRNPQQHRNAQPQVTMQLAVHVQGQETL  
TASRLASAPPQKQKQMLGERLFPLIQAMHPTLAGKITGMLLEIDNSELlymLESPEslRS  
KVDEAVAVLQAHQAKEATQKAVNSATGVPTV

>sp|Q13310|PABP4\_HUMAN Polyadenylate-binding protein 4 OS=Homo sapiens GN=PABPC4 PE=1 SV=1

MNAAASSYPMASLYVGDLSHSDVTTEAMLYEKFSPAGPVLIRVCRDMITRRSLGYAYVNFQ  
QPADAERALDTMNFVDVIGKGPVIRIMWSQRDPSLRKSGVGNVFIKNLDKSIDNKALYDTFS  
AFGNILSCKVVCDENGSKGYAFVHFETQEAADKAIEKMNGMLLNDRKVFVGRFKSRKERE  
AELGAKAKEFTNVYIKNFGEEVDDESLEKELFSQFGKTLVKVMRDPNGKSKGFGFVSYEK  
HEDANKAVEEMNGKEISGKIIFVGRAQKKVERQAELEKRFQELKQERISRYQGVLNLIKN  
LDDTIDDEKLKEFPFGSITSAKVMLEDGRSKGFGFVCFSSPEEATKAVTEMNGRIVGS  
KPLYVALAQRKEERKAHLTNQYMQRVAGMRALPANAILNQFPAAGGYFVPAVPQAQGRP  
PYYTPNQLAQMPPNPRWQQGGRPGQFGMPSAIRQSGRPTLRHLAPTGSECPDRLAMDF  
GGAGAAQGLTDSCQSGGVPTAVQNLAPRAAVAAAAPRAVAPYKYASSVRSPHPAIQPLQ  
APQPAVHVQGQEPLTASMLAAAPPQEQKQMLGERLFPLIQTMHNSLAGKITGMLLEIDNS  
ELLHMLSPESLRSKVDEAVAVLQAHHAKKEAAQKVGAVAAATS

>sp|P18509|PACA\_HUMAN Pituitary adenylate cyclase-activating polypeptide OS=Homo sapiens GN=ADCYAP1 PE=1 SV=3

MTMCSGARLALLVYGIIMHSSVYSSPAAAGLRFPGIRPEEEAYGEDGNPLPDFDGSEPPG  
AGSPASAPRAAAWYRPAGRRDVAHGILNEAYRKVLDQLSAGKHLQSLVARGVGGSLGGG  
AGDDAEPLSKRHS DGIFDTSYSRYRKQMAVKKYLA AVL GKRYKQ RVKNKGRR IAYL

>sp|Q9BY11|PACN1\_HUMAN Protein kinase C and casein kinase substrate in neurons protein 1 OS=Homo sapiens GN=PACSIN1 PE=1 SV=1

MSSSYDEASLAPEETDSFWEVGNKRTVKRIDDGHRLCDLMNCVQERAKIEKAYGQQL  
TDWAKRWRQLIEKGPQYGSLEAWGAIMTEADKSELHQEVKNNLLNEDLEKVNWQKDA  
YHKQIMGGFKETKEAEDGFRKAQKPWAKMKELAAKKAYHLACKEEKLAMTREMNSKTE  
QSVTPQQKKLQDKVDKCKQDVQKTQEKYEKVL EDVGKTT PQYME NMEQVFEQ CQ QFE EK  
RLVFLKEVLDDIKRHLNLAENSSYIHVYRELEQAIRGADAQEDLRWFRSTSGPGMPMNWP  
QFEEWNPDLPHTTTKKEKQPKKAE GVALTNATGAVESTSQAGDRGSVSSYDRGQPYATEW  
SDDESGNPFPGSETNGGANPFEDDSKGVVRALYDYDQGEQDEL SFKAGDELTKLGE EDE  
QGWCGRGLDSGQLGLYPANYVEAI

>sp|Q8N7B6|PACRL\_HUMAN PACRG-like protein OS=Homo sapiens GN=PACRGL PE=1 SV=2

MQKSEGGGTQLKNRATGNYDQRTSSSTQLKHRNAVQGSKSSLSTSSPESARKLHPRPSD  
KLNPKTINPFGEQSRVPSAFAAIYSKGGIPCRLVHGSVKHRLQWECPPESLSFDPLLITL

AEGLRETKHPYTFVSKEGFRELLLVKGAPEKAIPLLPRLIPVLKAALVHSDDEVFERGLN  
ALVQLSVVVGPSLNDHLKHLTSLSKRLMDKKFKEPITSALQKLEQHGGSGSLSIKSKI  
PTYCSICC

>sp|Q9BSG0|PADC1\_HUMAN Protease-associated domain-containing protein 1 OS=Homo sapiens  
GN=PRADC1 PE=1 SV=1

MVPGAAGWCCLVWLWPACVAAHGFRIHDYLYFQVLSPGDIRYIFTATPAKDFGGIFHTRY  
EQIHLVPAEPPEACGELSNGFFIQDQIALVERGGCSFLSKTRVVQEHGGRAVIISDNAV  
NDSFYVEMIQDSTQRTADIPALFLLGRDGYMIRRSLEQHGLPWAIISIPVNVTSIPTFEL  
LQPPWTFW

>sp|Q13093|PAFA\_HUMAN Platelet-activating factor acetylhydrolase OS=Homo sapiens  
GN=PLA2G7 PE=1 SV=1

MVPPKLHVLFLCLCGCLAVVYPFDWQYINPVAHMKSSAWVNKIQVLMAAASFGQTKIPRGN  
GPYVGCTDLMFDHTNKGTFRLRYPSQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMGNI  
LRLLFGSMTTPANWNSPLRPGEKYPLVVFSLHGLAFRTLYSAIGIDLASHGFIVAAVEHR  
DRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQRAKECSQALSLILDID  
HGKPVKNALDLKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWMF  
PLGDEVYSRIPQPLFFINSEYFQYPANIIKMKCYSPDKERKMITIRGSVHQNFADFTFA  
TGKII GHMLKLKGDIDSNAVIDLSNKASLAFLQKHLGLHKDFDQWDCLIEGDDENLIPGT  
NINTTNQHIMLQNSSGIEKYN

>sp|Q5JUK9|PAGE3\_HUMAN P antigen family member 3 OS=Homo sapiens GN=PAGE3 PE=1 SV=1

MSGHQRTRSRSRERRDDQDSNHPVGAVVAQELPSNDQLQKEEPIESQDYTPGQERDEGA  
LDFQVLGLAAYLWELTRSKTGGERGDPNVKGEFLPNLEPVKIEAGEGQPSV

>sp|Q9H074|PAIP1\_HUMAN Polyadenylate-binding protein-interacting protein 1 OS=Homo  
sapiens GN=PAIP1 PE=1 SV=1

MSDGFDRAPGAGRGRSRLGRGGGGPEGGGFNGAGPAERARHQPPQPKAPGFLQPPPLR  
QPRTPPPGAQCEVPASPQRPSRPGALPEQTRPLRAPPSSQDKIPQQNSESAMAKPVVV  
APVLSKLSVNAPEFYPSGYSSSYTESYEDGCEDYPTLSEYVQDFLNHLTEQPGSFETEI  
EQFAETLNGCVTTDDALQELVELIYQQATSIPNFSYMGARLCNYLSHHLTISPQSGNFRQ  
LLLQRCRTEYEVKDQAAGKDEVTRKRFHAFVLFLGELYLNLEIKGTNGQVTRADILQVGL  
RELLNALFSNPMDDNLICAVKLLKLTGSVLEDAWKEKGKMDMEEIIQRIENVVLDANCSR  
DVKQMLLKLVELRSSNWGRVHATSTYREATPENDPNYFMNEPTFYTSDGVPFTAADPDYQ  
EKYQELLEREDFFPDYEENGTDLSGAGDPYLDIDDEMPEIEEAYEKFCLSERKRKQ

>sp|Q9BPZ3|PAIP2\_HUMAN Polyadenylate-binding protein-interacting protein 2 OS=Homo  
sapiens GN=PAIP2 PE=1 SV=1

MKDPSRSSTSPSIINEDVIINGHSHEDDNPFAEYMMWENEEEFNRQIEEELWEEEFIERC  
FQEMLEEEHEWFIPARDLPQTMQIQDQFNDLVISDGSSLEDLVVKSNLNPNAKEFVP  
GVKYGNI

>sp|Q9NP74|PALMD\_HUMAN Palmdelphin OS=Homo sapiens GN=PALMD PE=1 SV=1

MEEAELVKGRQLAITDKRKIQEEISQKRLKIEEDKLKHQHLKKKALREKWLLDGISSGKE  
QEEMKKQNQQDQHQIQVLEQSI LRLEKEIQDLEKAELQISTKEEAILKKLKS IERTTEDI  
IRSVKVEREERAEESIEDIYANIPDLPKSYIPSRLRKEINEEKEDDEQNRKALYAMEIKV  
EKDLKTGESTVLSSIPLPSDDFKGTGIKVYDDGQKSVYAVSSNHSAAYNGLDGLAPVEVE  
ELLRQASERNKSPTEYHEPVYANPFYRPTTPQRETVTPGPNFQERIKIKTNGLGIGVNE  
SIHNMGNGLSEERGNNFNHISIPPVPHPRSVIQQAEKLTHTPQKRLMTPWEESNVMQDK

DAPSPKPRLSPRETIFGKSEHQNSSPTCQEDEEDVRYNIVHSLPPDINDTEPVTMIFMGY  
QQAEDSEEDKKFLTGYDGI IHAELVVIDDEEEDEGEAEKPSYHPIAPHSQVYQPAKPTP  
LPRKRSEASPHENTNHKSPHKNSISLKEQEESLGSPVHHS PFDAQTTGDGTEDPSLTALR  
MRMAKLGKKVI

>sp|Q6UXH9|PAMR1\_HUMAN Inactive serine protease PAMR1 OS=Homo sapiens GN=PAMR1 PE=1 SV=1

MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAENIMCRECCEYDQIECVCPGKRE  
VVGYTIPCCRNEENECDSLIHPGCTIFENCKSCRNGSWGGLDDFYVKGFYCAECRAGW  
YGGDCMRCGQVLRAPKGQILLESYPLNAHCEWTIHAKPGFVIQLRFVMLSLEFDYMCQYD  
YVEVRDGDNRDGGQIIKRVCGNERPAPIQSIGSSSLHVLFHSDGSKNFDGFHAIYEEITACS  
SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI  
NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQNGEWSGKQPICIKACREPKISDLVRRRVL  
PMQVQSRETPLHQLYSAAFQKQLQSAPTKKPALPFGDLPNGYQHLHTQLQYECISPFYR  
RLGSSRRRTCLRTGKWSGRAPSCIPCGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSL  
HKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQS  
LQISAILHPNYDPILLDADIAILKLLDKARISTRVQPICLAASRDLSFSQESHITVAG  
WNVLADVRSPGFKNDTLRSGVSVVDSLLCEEQHEDHGIPVSVTDNMFASWEPTAPSDI  
CTAETGGIAAVSFPGRASPEPRWHLMLVSWSYDKTCSHRLSTAFTKVLFPKDWIERNMK

>sp|Q96RD6|PANX2\_HUMAN Pannexin-2 OS=Homo sapiens GN=PANX2 PE=2 SV=2

MHHLLEQSADMATALLAGEKLRELILPGAQDDKAGALAALLLQLKLELPFDRVVTIGTVL  
VPILLVTLVFTKNFAEPIICYTPHNFTRDQALYARGYCWTEL RDALPGVDASLWPSLFE  
HKFLPYALLAFAAIMYVPALGWEFLASTRLTSELNFFLLQEIDNCYHRAAEGRAPKIEKQI  
QSKGPGITEREKREI IENAEKEKSPEQNLFKEYLERRGRSNFLAKLYLARHVLILL SAV  
PISYLCTYYATQKQNEFTCALGASPDGAAGAGPAVRVSCKLPSVQLQRIIAGVDIVLLCV  
MNLIIILVNL IHLFIFRKSNI FDKLHKVG IKTRRQWRRSQFCDINILAMFCNENRDHIKS  
LNRLDFITNESDLMYDNVVRQLLAALAAQSNHDATPTVRDSGVQTVDP SANPAEPDGAAP  
PVVKRPRKKMKWIPTSNPLPQPFKEPLAIMRVENSKAEKPKPARRKTATDTLIAPLLDRS  
AHYKGGGGDPGPGPAPAPAPPAPDKKHARHFSLDVHPYILGTTKAKAEAVPAALPASR  
SQEGGFLSQAEDCGLGLAPAIKDAPLPEKEIPYPTEPARAGLPSSGGPFHVRSPPAAPAV  
APLTPASLGKAEPLTILSRNATHPLLHINTLYEAREEEDGGPRLPQDVGDLIAIPAPQQI  
LIATFDEPRTVVSTVEF

>sp|Q9NVV4|PAPD1\_HUMAN Poly(A) RNA polymerase, mitochondrial OS=Homo sapiens GN=MTPAP  
PE=1 SV=1

MAVPGVGLLTRNLNLCARRRTRVQRP IVRLLSCPGTVAKDLRRDEQPSGSVETGFEDKIPK  
RRFSEMQRERREQAQRVLIHCPEKISENKFLKYL SQFGPINNHFFYESFGLYAVVEFCQ  
KESIGSLQNGTHTPSTAMETAIPFRSRFFNLKLNQTSERSRVRSSNQLPRSNKQLFELL  
CYAESIDDLNLTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDCIVRPFSSVNTFGKL  
GCDLDMFLDLDETRNLSAHKISGNFLMEFQVKNVPSERIATQKILSVLGECLDHFPGPCV  
GVQKILNARCPLVRFSHQASGFQCDLTNNRIALTSELLEYIYGALDSRVRLVFSVRCW  
ARAHSLTSSIPGAWITNFSLTMMVIFFLQRRSPPILPTLSLKTADAEDKCVIEGNNCT  
FVRDLSRIKPSQNTETLELLLKEFFEYFGNFAFDKNSINIRQGREQNKPDSSPLYIQNPF  
ETSLNISKVNSQSQLQKFVDLARESAWILQQEDTDRPSSNRPWGLVSLLLPSAPNRKS  
FTKKKSNKFAIETVKNLLESLKGNRTENFTKTSGKRTISTQT

>sp|P51003|PAPOA\_HUMAN Poly(A) polymerase alpha OS=Homo sapiens GN=PAPOLA PE=1 SV=4

MPFPVTTQGSQQTQPPQKHYGITSPISLAAPKETDCVLTQKLIETLKPFGVFEEEEELQR

RILILGKLNVLKWEIREISESKNLPQSVIENVGGKIFTFGSYRLGVHTKGADIDALCVA  
PRHVDRSDFFTSFYDKLKLQEEVKDLRAVEEAFVPVIKLCFDGIEIDILFARLALQTIPE  
DLDRDDSLKLNLDIRCIRSLNGCRVTDEILHLVPNIDNFRLLRAIKLWAKRHNIYSNI  
LGFLGGVSWAMLVARTCQLYPNAIASTLVHKFFLVFSKWEWPNPVLLKQPEECNLNLPVW  
DPRVNPSDRYHLMPIITPAYPQQNSTYNVSVSTRMVMVEEFKQGLAITDEILLSKAESK  
LFEAPNFFQKYKHIVLLASAPTEKQRLWVGLVESKIRILVGSLEKNEFITLAHVNPQS  
FPAPKENPDKEEFRTMWVIGLVFKKTENSENLSVDLTIDIQSFTDTVYRQAINSKMFEVD  
MKIAAMHVKKQLHQLLPNHVLQKKKKHSTEGVKLTALNDSSLDLSMDSNMSVPSPTS  
ATKTSPLNSSGSSQGRNSPAPAVTAASVTNIQATEVSVQVNSSESSGGTSSESIPQTAT  
QPAISPPPPTVSRVVSSTRLVNPPPRSSGNAATSGNAATKIPTPIVGVRTSSPHKEES  
PKKTKTEEDETSEDANCLALSGHDKTEAKEQLDTETSTTQSETIQTAAASLLASQKTSSTD  
LSDIPALPANPIPIKNSIKLRLNR

>sp|Q9BWT3|PAPOG\_HUMAN Poly(A) polymerase gamma OS=Homo sapiens GN=PAPOLG PE=1 SV=2

MKEMSANTVLDSQRQKHGYSITSPISLASPKIDHIYTKLIDAMKPGVFEDDEELNHR  
LVVLGKLNVLKEWISDVSESKNLPSSVATVGGKIFTFGSYRLGVHTKGADIDALCVAP  
RHVERSDFFQSFFEKLKHQDGI RNLRAVEDAFVPVIKFEFDGIEIDLVFARLAIQTISDN  
LDLRDDSRRLSLDIRCIRSLNGCRVTDEILHLVPNKETFRLTLRAVKLWAKRRGIYSNML  
GFLGGVSWAMLVARTCQLYPNAAASTLVHKFFLVFSKWEWPNPVLLKQPEESNLNLPVWD  
PRVNPSDRYHLMPIITPAYPQQNSTYNVSTSTRVMVEEFKQGLAVTDEILQKSDWSKL  
LEPPNFFQKYRHYIVLTASASTEENHLEWVGLVESKIRVLVGNLERNEFITLAHVNPQSF  
PGNKEHHKDNYSVMWFLGIIFRRVENAESVNIDLTYDIQSFTDTVYRQANNINMLKEGM  
KIEATHVKKKQLHHYLP AEILQKKKKQSLSDVNRSSGGLQSKRLSLDSSCLDSSRDTDNG  
TPFNPSASKSDSPSVGETERNSAEPAAVIVEKPLSVPPAAGLSIPVIGAKVDSTVKTVP  
PTVCTIPTVVG RNVIPRITTPHNPAGGQPHLNGMSNITKTVTPKRSHSPSIDGTPKRLKD  
VEKFIRLESTFKDPRTAERKRKSVD AIGGESMPIPTIDTSRKKRLPSKELPDSSSPVPA  
NNIRVIKNSIRLTLNR

>sp|Q9NR21|PAR11\_HUMAN Poly [ADP-ribose] polymerase 11 OS=Homo sapiens GN=PARP11 PE=1  
SV=1

MFHKAEELEFSKTTNNEVDDMDTSDTQWGWFYLAECGKWHMFQPD TNSQCSVSSDIEKSF  
KTNPCGSISFTTSKFSYKIDFAEMKQMNLTGKQRLIKRAPFSISAFSYICENEAI PMP  
HWENVNTQVPYQLIPLHNQTHEYNEVANLFGKTMDRNRRIKRIQRIQNLDLWEFFCRKKAQ  
LKKKRGVPQINEQMLFHGTSSEFVEAICIHNF DWRINGIHGAVFGKGYFARDAAYSSRF  
CKDDIKHGNTFQIHGVS LQQRHLFR TYKSMFLARVLIGDYINGDSKYMRPPSKDGSYVNL  
YDSCVDDTWNPKIFVVF DANQIYPEYLIDFH

>sp|Q9NWS1|PARI\_HUMAN PCNA-interacting partner OS=Homo sapiens GN=PARBPB PE=1 SV=3

MAVFNQKSVSDMIKEFRKNWRALCNSERTTLCGADSM LLAQLSMAENNKQHSGEFTVSL  
SDVLLTWKYLLHEKLNLPVENMDVTDHYEDVRKIYDDFLKNSNMLDLIDVYQKCRALTSN  
CENYNTVSPS QLLDFLSGKQYAVGDETDLSIPTSPTSKYNRDNEKVQLLARKIIFS YLNL  
LVNSKNDLAVAYILNIPDRGLGREAF TDLKHAAREKQMSIFLVATSFIRTIELGGKG YAP  
PPSDPLRTHVKGLSNFINFIDKLDEILGEIPNPSIAGGQILSVIKMQLIKGQNSRDPFCK  
AIEEVAQDLDLRIKNIINSQEGVVALSTDISPARPKSHAINHG TAYCGRDTV KALLVLL  
DEEAANAPTKNKAELLYDEENTIHHHGT SILTLFRSPTQVNN SIKPLRERICVSMQEKKI  
KMKQTLIRSQFACTYKDDYMI SKDNWNNVNLASKPLCVLYMENDLSEGVNPSVGRSTIGT  
SFGNVHLDRSKNEKVS RKSTSQTGNKSSKRKQVDLDGENILCDNRNEPPQHKN AKIPKKS

NDSQNRLYGKLA KVA KSNKCTAKDKLISGQAKLTQFFRL

>sp|095453|PARN\_HUMAN Poly(A)-specific ribonuclease PARN OS=Homo sapiens GN=PARN PE=1 SV=1

MEIIRSNFKSNLHKVYQAIEEADFFAIDGEFSGISDGPSVSALTNGFDTPEERYQKLKKH  
SMDFLLFQFGLCTFKYDYTDSKYITKSNFYVFPKPFNRSSPDVKFVCQSSSIDFLASQG  
FDNKFVRNGIPYLNQEEERQLREQYDEKRSQANGAGALSYVSPNTSKCPVTIPEDQKKF  
IDQVVEKIEDLLQSEENKNLDLEPCTGFQRKLIYQTLNWKYPKGIHVETLETEKKERYIV  
ISKVDEEERKRREQQKHAKEQEELNDVGFSRVIAIANSGLVIGHNMLLDVMHTVHQF  
YCPLPADLSEFKEMTTTCVPRLLDTKLMASTQPFKDIINNTSLAELEKRLKETPFNPPKV  
ESAEGFPSYDTASEQLHEAGYDAYITGLCFISMANYLGSFLSPPKIHVSARSKLIEPFFN  
KLFLMRVMDIPYLNLEGPDLQPKRDHVLHVTFPKWKTS DLYQLFSAFGNIQISWIDDT  
AFVSLSQPEQVKIAVNTSKYAESYRIQTYA EYMG RKQEEKQIKRKWTEDSWKEADSKRLN  
PQCIPYTLQNHYYRNSFTAPSTVGKRNLSPSQEEAGLEDGVSGEISDTELEQTDSCAEP  
LSEGRKKAKKLRMKKELSPAGSISKNSPATLFEVPDTW

>sp|Q9Y6F1|PARP3\_HUMAN Poly [ADP-ribose] polymerase 3 OS=Homo sapiens GN=PARP3 PE=1 SV=3

MAPKPKPWVQTEGPEKKKGRQAGREEDPFRSTAEALKAIPA EKRIIRVDPTCLSSNPGT  
QVYEDYNCTLNQTNIENNNNKFYIIQLLQDSNRFFTCWNHWGRVGEVGGSKINHFTRLD  
AKKDFEKKFREKTNNWAERDHFVSHPGKYTLIEVQAEDAEAEAVVKVDRGPVRTVTKRV  
QPCSLDPATQKLITNIFSKEMFKNTMALMDLDVKKMPLGKLSKQIARGFEALEALEEAL  
KGPTDGGQSLEELSSHFYTVIPHNFHGSQPPPINSPELLQAKKDMLLVLADIELAQALQA  
VSEQEKTV EEPHPLDRDYQLLKCQLQLLD SGAPEYKVIQTYLEQTGSNHRCP TLQHIWK  
VNQEGEEDRFQAHSKLG NRKLLWHGTNMAVVAAILTSGLRIMPHSGGRVGKGIYFASENS  
KSAGYVIGMCKGAHHVGYMFLGEVALGREHHINTDNPSLSPPPFGDSVIARGHTEPDPT  
QDTELELDGQVQVVPQGQPVPCPEFSSSTFSQSEYLIYQESQCRLRYLLEVHL

>sp|Q9UKK3|PARP4\_HUMAN Poly [ADP-ribose] polymerase 4 OS=Homo sapiens GN=PARP4 PE=1 SV=3

MVMGIFANCIFCLKVYLPQQQKKKLQTDIKENGKKFSFSLNPQCTHIILDNADVLSQYQ  
LNSIQKNHVHIANPDFIWKSIREKRLLDVKNYDPYKPLDITPPPDQKASSSEVKTEGLCP  
DSATEEEDTVELTEFGMQNVEIPHLPQDFEVAKYNTLEKVGMEGQAEAVVVELQCSRDSR  
DCPFLISSHFLDDGMETRRQFAIKKTS EDA SEYFENYIEELKKQGFLREHFTPEATQL  
ASEQLQALLLEEVMNSSTLSQEVSDLVEMIWAEALGHLEHMLLKPVNRISLNDVSKAEGI  
LLL VKAALKNGETA EQLQKMMTEFYRLIPHKGTMPKEVNLGLLAKKADLCQLIRDMVNVC  
ETNLSKPNPPSLAKYRALRCKIEHVEQNT EEF LVRKEVLQNHHSKSPVDVLQIFRVGRV  
NETTEFLSKLGNVRPLLHGSPVQNI VGILCRG LLLPKVVEDRGVQRTDVGNL GSGIYFSD  
SLSTS IKYSHPGETDGT RLLLICDVALGKCMDLHEKDFSLTEAPPGYDSVHGVSQTASVT  
TDFEDDEFVVKTNQVKMKYIIKF SMPGDQIKDFHPSDHTELEEYRPEFSNFSKVEDYQL  
PDAKTSSSTKAGLQDASGNLVPLEDVHIKGRIIDTVAQVIVFQTYTNKSHVPIEAKYIFP  
LDDKAAVCGFEAFINGKHIVGEIKEKEEAQQEYLEAVTQGHGAYLMSQDAPDVFTVSVGN  
LPPKAKVLIKITYITELSGTVGVFFMPATVAPWQQDKALNENLQDTVEKICIKEIGTK  
QSFSLTMSIEMPVYIEFIFSDTHELKQKRTDCKAVISTMEGSSLDSSGFSLHIGLSAAYL  
PRMWVEKHPEKESEACMLVFQPDLDVLPDLASESEV IICLDCSSSMEGVTF LQAKQIAL  
HALSLVGEKQKVNIIQFGTGYKELFSYPKHITSNTMAAEFIMSATPTMGNTDFWKTLRYL  
SLLYPARGSRNILLVSDGHLQDES LTLQLVKRSRPHTRLFACGIGSTANRHVLRILSQCG  
AGVFEYFNAKSKHSWRKQIEDQMTRLCSPSCHSVSVKWQQLNPDVPEALQAPAQVPSLFL  
NDRLLVYGFIPHCTQATLCALIQEKEFRMTMVSTTELQKTTGTMIHKLAARALIRDYEDGI



LHENETHEMKKQTLKSLIIKLSKENSILITQFTSFVAVEKRDENESPPFDIPKVSELIK  
EDVDLFPYMSWQGEPEAVRNQSLLASSEWPELRLSKRKHRIKIPFSKRKMELSQPEVSED  
FEEDGLGVLPFTSNLREGGVEKLLDLSWTESCKPTATEPLFKKVSPWETSTSSFFPILA  
PAVGSYLPPTARAHSPASLSFASYRQVASFGSAAPPRQFDASQFSQGPVPGTCADWIPQS  
ASCPTGPPQNPPSSPYCGIVFSGSSLSSAQSAPLQHPGGFTTRPSAGTFPELDSPLHFS  
LPTDPDPIRQFGSYHPSASSPFHFQPSAASLTANLRLPMASALPEALCSQSRTTPVDLCL  
LEESVGSLEGSRCVPFAFQSSDTEDELSEVLQDSCFLQIKCDTKDDSIILCFLEVKEEDE  
IVCIQHWQDAVPWTELLSLQTEDGFWKLTPELGLILNLNTNGLHSFLKQKGIQSLGVKGR  
ECLLDLIATMLVLQFIRTRLEKEGIVFKSLMKMDASISRNIPWAFEAIKQASEWVRTE  
GQYPSICPRLELGNDWDSATKQLLGLQPISTVSPLHRVLHYSQG

>sp|Q2NL67|PARP6\_HUMAN Poly [ADP-ribose] polymerase 6 OS=Homo sapiens GN=PARP6 PE=2 SV=1

MDIKGQFWNDDESEGNSEEFYGVQGSAAADLYRHPQLDADIEAVKEIYSENSVSIRE  
YGTIDVDIDLHINISFLDEEVSTAWKVLRTPEIVLRLRFSLSQYLDGPEPSIEVFQPSN  
KEGFLGLQLKKILGMFTSQWKHLSNDFLKTQKEKRHSWFKASGTIKKFRAGLSIFSPI  
PKSPSPFI IQDSMLKGLGVPELVRGRLMNRISCTMKNPKVEVFGYPPSPQAGLLCPQH  
VGLPPPARTSPLVSGHCKNIPTLEYGFLVQIMKYAEQRIPTLNEYCVVCDEQHVFQNGSM  
LKPAVCTREL CVFSFYTLGVMGAAEEVATGAEVVDLLVAMCRAALES PRKSIIFEPYPS  
VVDPTDPKTLAFNPKKNYERLQKALDSVMSIREMTQGSYLEIKKQMDKLDPLAHPLLQW  
IISNRSHIVKLPLSRLKFMHTSHQFLLSSPPAKEARFRTAKKLYGSTFAFHGSHIENW  
HSILRNLVNASYTKLQLHGAAYGKGIYLSPISSISFGYSGMGKGQHRMPSKDELVQRYN  
RMNTIPQTRSIQSRFLQSRNLNCIALCEVITSKDLQKHGNIWVCPVSDHVC TRFFVYED  
GQVGDANINTQDPKIQKEIMRVIGTQVYTN

>sp|Q8N3A8|PARP8\_HUMAN Poly [ADP-ribose] polymerase 8 OS=Homo sapiens GN=PARP8 PE=2 SV=1

MGMSRQERIQKDIDVVIQKSRAEKDCLFADFRYSDSTFTTYVGGPRSVSVHVSSEDY  
PDNTYVSSSENDEDVLTTEPIPVIFHRIATELRKTNDINCLSIKSKLQKENGESRQN  
STVEEDSEGDNDSEEFYGGQVNYDGELHKHPQLEADLSAVREIYGPHAVSLREYGAIDD  
VDIDLHIDVSFLDEEIAVAWEVIRTEPIIVRLHCSLTQYLNQPVPTVDVFQISTKERFGL  
GHQLKKIMQTFVTQWKQSKESNCLHNKKLSEKKVKSPLHLFSTLRRSPSYPPGCGKS  
KSKLKSEQDGISKTHKLLRRTCSSTVKTDDVCVTKSHRTFGRSLSSDPRAEQAMTAIKSH  
KLLNRPCPAAVKSEECLTLKSHRLLTRSCSGDPRCEHNTNLKPHKLLRSYSSNLRMEEL  
YGLKNHKLLSKSYSSAPKSSKTELFKEPNAEGRRLSLTSLGILGILTPSSSSSSQLAPNGA  
KCIPVRDRGLVQTIEFAEQRIPVLNEYCVVCDEPHVFQNGPMLRPTVCERELCVFAFQT  
LGVMNEAADEIATGAQVVDLLVSMCRSALES PRKVIFEPYPSVVDPNDPQMLAFNPRKK  
NYDRVMKALDSITSIREMTQAPYLEIKKQMDKQDPLAHPLLQWVISSNRSHIVKLPVNRQ  
LKFMHTPHQFLLSSPPAKESNFRAAKLFGSTFAFHGSHIENWHSILRNLVVASNTRL  
QLHGAMYGSGIYLSPMSSISFGYSGMNKKQKVSADKDEPASSKSSNTSQSQKKGQSQFL  
QSRNLKCIALCEVITSSDLHKHGEIWWVPNTDHVCTRFFVYEDGQVGDANINTQEGGIH  
KEILRVIGNQTATG

>sp|Q8IXQ6|PARP9\_HUMAN Poly [ADP-ribose] polymerase 9 OS=Homo sapiens GN=PARP9 PE=1 SV=2

MDFSMVAGAAAYNEKSGRITSLLFQKVFAQIFPQWRKGNTTECLPYKSETGALGENY  
SWQIPINHNDFKILKNNERQLCEVLQNKFGCISTLVSPVQEGNSKSLQVFRKMLTPRIEL  
SVWKDDLTTTHAVDAVNANEDLLHGGGLALALVKAGGFEIQEESKQFVARYGKVSAGEI  
AVTGAGRLPCKQIIHAVGPRWMEWDKQGCTGKLQRAIVSILNYVIYKNTHIKTVAIPALS  
SGIFQFPLNLCTKTIVETIRVSLQGKPMMSNLKEIHLVSNEEDPTVAAFKAASEFILGKSE

LGQETTPSFNAMVVNNLTQIVQGHIEWQTADVIVNSVNPHDITVGPVAKSILQQAGVEM  
KSEFLATKAKQFQRSQVLVLTGKGNLFCKYIYHVLWHSEFPKPQILKHAMKECLEKCIEQ  
NITSISFPALGTGNMEIKKETAAILFDEVLTFAKDHVKHQLTVKFVIFPTDLEIYKAFS  
SEMAKRSKMLSLNNYSVPQSTREEKRENGLEARSPAINLMGFNVEEMYEAHAWIQRILSL  
QNHIIENNHIYLRKEHDILSQLQKTSSVSITEIISPGRTELEIEGARADLIEVVMNI  
EDMLCKVQEEMARKKERGLWRSLGQWTIQQKKTQDEMKENIIFLKCPVPPTQELLDQKKQ  
FEKCGLQVLKVEKIDNEVLMAAFQRKKKMMEEKLHRQPVSHRLFQQVPYQFCNVVCRVGF  
QRMYSTPCDPKYAGIYFTKNLKNLAEKAKKISAADKLIYVFEAEVLTGFFCQGHPLNIV  
PPPLSPGAIDGHSVDNVSSPETFVIFSGMQAIPQYLWTCTQEYVQSQDYSSGPMRPF  
A QHPWRGFASGSPVD

>sp|P49023|PAXI\_HUMAN Paxillin OS=Homo sapiens GN=PXN PE=1 SV=3

MDDL DALLADLESTSHISKRPVFLSEETPYSYPTGNHTYQEIAVPPPVPPPSSEALNG  
TILDPLDQWQPSSRFIHQQPQSSSPVYGSSAKTSSVSNPQDSVGSPCSRVGEEHVYSF  
PNKQKSAEPSPTVMSTSLGSLNSELDRLLLELNAVQHNPFGFPADEANSSPPLPGALSPL  
YGPETNSPLGGKAGPLTKEKPKRNGRGLEDVRPSVESLLDELESSVPSPVPAITVNQG  
EMSSPQRTSTQQQTRISASSATRELDLMASLSDFKIQGLEQRADGERCWAAGWPRDGG  
RSSPGGQDEGGFMAQKGTGSSSPGGPPKPGSQLDSMLGSLQSDLNKLGVATVAKGVCGA  
CKKPIAGQVVTAMGKTWHPEHFVCTHCQEEIGSRNFFERDGPYCEKDYHNLFSPRCYC  
NGPILDKVVTALDRTWHPEHFCAQCAGFFGPEGFHEKD GKAYCRKDYFDMFAPKCGGCA  
RAILENYISALNTLWHECFVCRECFTPFVNGSFFEHDGQPYCEVHYHERRGSLCSGCQK  
PITGR CITAMAKKFHPEHFVCAFLKQLNKGT FKEQNDKPYCQNCFLKLC

>sp|Q9BVL2|NUP58\_HUMAN Nucleoporin p58/p45 OS=Homo sapiens GN=NUP58 PE=1 SV=1

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SGFGTGLFGSKPATGFTLGGTNTGIATTITGLTLGTPATTSAAATGFSLGFNKPAASAT  
PFALPITSTSASGLTLSSALTSTPAASTGFTLNLGGTTATTTASTGLSLGGALAGLGG  
SLFQSTNTGTSGLGQNALGLTLGTTAATSTAGNEGLGGIDFSSSSDKKSDKTGTRPEDSK  
ALKDENLPPVICQDVENLQKFVKEQKQVQEEISRMSKAMLKVQEDIKALKQLLSLAANG  
IQRNTLNIDKLEIAETAQELKNAEIALRTQKTPPGLQHEYAAPADYFRILVQQFEVQLQQY  
RQQIEELENHLATQANNSHITPDLSMAMQKIYQTFVALAAQLQSIHENVKVLKEQYLYG  
RKMFLGDAVDVFETRRAEAKKWQNTPRVTTGPTPFSTMPNAAVAMAATLTQQQQPATGP  
QPSLGVSFGT PFGSGIGTGLQSSGLGSSNLGGFGTSSGFGCSTTGASTFGFGTTNKPSGS  
LSAGFGSSSTSGFNFSNPGITASAGLTFGVSNPASAGFTGGQLLQLKKPPAGNKRGR

>sp|O15381|NVL\_HUMAN Nuclear valosin-containing protein-like OS=Homo sapiens GN=NVL PE=1 SV=1

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KVFSIIISSEKELKNL TELEDEHLAKRARQGEEDNEYTESYSDDDSSMEDYPDPQSANHMN  
SSLLSLYRKGNPDSVSNTPEMEQRETTSSPTRISSKTGSIPLKTPAKDSEGGWFIDKTPS  
VKKDSFFLDLSCEKSNPKPITEIQDSKSSLLESDMKRKGKLNKNGSKRKKEDLQEVDG  
EIEAVLQKKAKARGLEFQISNVKFEDVGGNDMTLKEVCKMLIHMRHPEVYHHLGVVPPRG  
VLLHGPPGCGKTL LAHAIAIAGELDLPILKVAAP EIVSGVSGESEQKLRELFEQAVSNAPCI  
IFIDEIDAITPKREVASKDMERRIVAQLLTCMDDLNNVAATARVLVIGATNRPDSLDPAL  
RRAGRFDR EICLIPDEASRERILQTLCKRLRLPQAFDFCHLAHLTPGFVGADLMALCRE  
AAMCAVNRVLMKLQEQQKNPEMEDLPSKGVQEERLGTEPTSETQDELQRLGLLRDQDP  
LSEEQMQGLCIELNDFIVALSSVQPSAKREGFVTPPNVTWADIGALEDI REELTMAILAP

VRNPDQFKALGLVTPAGVLLAGPPGCGKTLAKAVANESGLNFISVKGPELLNMYVGESE  
RAVRQVFQRAKNSAPCVIFFDEVDALECPRRSDRETGASVRVQNQLLEMDGLEARQQVFI  
MAATNRPDIIIDPAILRPGRDLKTLFVGLPPPADRLAILKTITKNGTKPPLDADVNLEAIA  
GDLRDCYTGADLSALVREASICALRQEMARQKSGNEKGELKVSHKHFEAFKKVRSSIS  
KKDQIMYERLQESLSR

>sp|Q9ULI1|NWD2\_HUMAN NACT and WD repeat domain-containing protein 2 OS=Homo sapiens  
GN=NWD2 PE=2 SV=3

MWPAGAGTKLPCPRDSALRRAAFSGNLTALPSHLVPAGRSVRVFISANPEDTGAERQALR  
ENVYPKLREFCRENYGLEFQVIDLYWGVVEDEWDSPELQKTRMKLLENCLKTSAGPCFVG  
LLGEKYGNIRIPGEVEASEFEMILDAAIEAKLETKLLEEWYCRDENSVPAAYYLRPKSEM  
LRSNRNAMQPSTNAENKTWQEISDEIKKIFKAAVKLLHEKGKMKHSQAKRYLFSAIEDE  
FDFALGKQTPAFLKKVCYIRKIANIERFVKIPEMGKYMIDITGTEPRIIRDPEAQEKLIK  
LRDEFIPTIVASSNLRVYTSVTHCDMKLGYSQEIENHYIEGLGKQFYEDMIDI IQATIQQ  
NFDTETDTLYDEILQHSSCLKTYASFYEYKCESLNIVHNYILPSKAGHINPLIIYGGPCT  
GKTLLEAEVAKKAYGWLHEDTGPESDPVVIVRFLGTTDMSSDLRTLLSVCEQLAVNYRC  
LVQSYPKKIHDLCDFINLLNESSLRPLVIFDALEQLSEND DARKLWWLPAHLPRFVR  
IVLSTLPNKHGILQKLRLIHEEDNYIELIPDRKMCQVLKHQLLRVKRKVTSGQKIYV  
NNALSKCTLPMFVNLTREVVRHWRSHKDVDESSLSVTVHESIEQLFWSLEKKCGQKLVS  
ALGYITMAKMGLSEMELEDVLALDNSVMSELKENTRPSNPLRVPLYIARLKEGLSGYLI  
ERHVKNVTLLVWANRHLQLIAQKLYLQDDNDLREMHTILADYFLGVWSGGRRKAFCLDP  
YLNGCLDLENRSLLEEEKHFMEQASFDQRAPDQPVWFQCNPLEPDIFVFNHRKMSSELYH  
LTRCGKTDDLLYGIIMNFSWLYTMIKIGQFDKVLSDIELAYNYSQEKELKFLANTLRSIK  
NKVTAFFPGSLSAELQQRLLPVVSSLPKLRHLLLECDKDGPKYCSIVPLHSSMDVTYSPER  
LPLSSSHLHVTEILPTCNPSTVLTALENGSIWTDVETRQLLRQITTAQSVILGMKLTSD  
EKYLVVATTNNTLLIYDNVNSCLLSEVEIKGTHGSSATYINGFTLSANHALAWLEASKD  
VTVIDLLYGWPLYQFHCWYEVTCVQCSLDGLYAFCGQYLNTTIFHLGSGEKLCVTSEF  
SGGFVKFLLILDTAQEMVMVDSEGLSVWNTEDISSPQLTDDFDCRREDSEVVSIELSED  
QSAVLICKALSIELLDGLWVAKFRKHNERFISAVLSKNGDCIIATMENTS AVFFWR  
RDTGQCMASLQEISGSIVKLKSSHHNMLLSLSTSGVLSIWDIDIITAMSNIDKTGKPIQ  
SLLLARGEIIYSLDGSVCVHKWNFSSGFIEAVFKHEGIVEHCVLTSTGDMVTSDDKSS  
QYVWHTSSGENLFRINGQRISQLLITHNDQFVVSLEENASRVWRLATGHRVCNILTTLQ  
NAFITSANTFVVGMTKSKVLAVSLWTGSITKKFCCEDGTTIVNFKLIPDCPDIIVFITS  
ETVNIWSLTDEVICRRVQLPNNFLKNLEDFEISPNGKLGIIARGDENINVL DLYSGKLRV  
VHASGIIWRQLSRDGRYLVIYICFRNGEEEDENGAI FSLIVMRLADGKNIGACSLYKTPT  
FLALSQRHLNIIYGFDDGSGIYTVVDRVDAALKIKIATSNRSQIFNNATHTSRPKCNSY  
CFKISVDCLWRESTEVFARDSPITVSDSTESNEATPSKKHNSCYERVCSALEARGHSYAP  
DN

>sp|Q9UBU9|NXF1\_HUMAN Nuclear RNA export factor 1 OS=Homo sapiens GN=NXF1 PE=1 SV=1

MADEGKSYSEHDDERVNFPQRKKKGRGPFRWKYGEGRNRSGRGGSGIRSSRLEEDGDVA  
MSDAQDGPVRYPYTRPNRRGDTWHRDRIHVTVRRDRAPPERGGAGTSQDGTSKNWF  
KITIPYGRKYDKAWLLSMIQSKCVPFTPIEFHYENTRAQFFVEDASTASALKAVNYKIL  
DRENRRIISIIINSSAPHTILNELKPEQVEQLKLIMSKRYDGSQQALDLKGLRSDPDLVA  
QNIDVVLNRRSCMAATLRIEENIPELLSLNLSNNRLYRLDDMSSIVQKAPNLKILNLSG  
NELKSERELDKIKGLKLEELWLDGNSLCDTFRDQSTYISAIRERFPKLLRLDGHELPPPI

AFDVEAPTTLPPCKGSYFGTENLKSLLVHFLQYYAIYDSGDRQGLLDAYHDGACCSLSI  
PFIPQNPARRSSLAIEYFKDSRNKKLKDPTLRFRLKHTRLNVVAFLNELPKTQHDVNSFV  
VDISAQTSTLLCFSVNGVFKEVDGKSRDSLRAFTRTFIIVPASNSGLCIVNDEL FVRNAS  
SEEIQRAFAMPAPTPSSSPVPTLSPEQQEMLQAFSTQSGMNEWSQKCLQDNNWDYTRSA  
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>sp|Q9GZY0|NXF2\_HUMAN Nuclear RNA export factor 2 OS=Homo sapiens GN=NXF2 PE=1 SV=1

MCSTLKKCGTYRTEVAECHDHGSTFQGRKKGGSSFRDNFDKRSCHYEHHGGYERPPSHCQE  
NDGSVEMRDVHKDQQLRHTPYSIRCERRMKWHEDEIRITWRNRKPPERKMSQNTQDGY  
TRNWFKVITIPYGIKYDKAWLMSIQSHCSDRFTPVDFHYVRNRACFFVQDASAASALKDV  
SYKIYDDENQKICIFVNHSTAPYSVKNKLKPGQMEMLKLTMNKRYNVSQQALDLQNLRFD  
PDLMGRDIDIILNRRNCMAATLKIERNFPELLSLNLCNNKLYQLDGLSDITEKAPKVKT  
LNLSKNKLES AWELGKVGLKLEELWLEGNPLCSTFSDQSAYVSAIRDCFPKLLRLDGRE  
LSAPVIVDIDSSETMKPCKENFTGSETLKHLVLQFLQYYSIYDSGDRQGLLGAYHDEAC  
FSLAIPFDPKDSAPSSLCKYFEDSRNMKTLKDPYLKGELLRRTKRDIVDLSALPKTQHD  
LSSILVDVWCQTERMLCFSVNGVFKEVEGQSQGSVLAFTRTFIATPGSSSSLCIVNDEL F  
VRDASPQETQSAFSIPVSTLSSSSEPSLSQEQQEMVQAFSAQSGMKLEWSQKCLQDNEWN  
YTRAGQAFTMLQTEGKIPAEAFKQIS

>sp|O15243|OBRG\_HUMAN Leptin receptor gene-related protein OS=Homo sapiens GN=LEPROT PE=2  
SV=1

MAGVKALVALSFSGAIGLTFMLLGCALDYGVYWPLFVLIFHAISPIPHFIAKRVTYDSD  
ATSSACRELAYFFTTGIVVSAFGFPVILARVAVIKWGACGLVLAGNAVIFLTIQGFFLIF  
GRGDDFSWEQW

>sp|Q5VST9|OBSCN\_HUMAN Obscurin OS=Homo sapiens GN=OBSCN PE=1 SV=3

MDQPQFSGAPRFLTRPKAFVSVGKDATLSCQIVGNPTPQVSWEKDQQPVAAGARFRLAQ  
DGDLYRLTILDLALGDSGQYVCRARNAIGEAFAAVGLQVDAEAACAEQAPHFLLRPTSIR  
VREGSEATFRCRVGGSPRPVAVSWSKDGRRLGEPDGPRVRVEELGEASALRIRAARPRDGG  
TYEVRAENPLGAASAAAALVVDSDAADTASRPGTSTAALLAHLQRRREAMRAEGAPASPP  
STGTRTCTVTEGKHARLSCYVTGEPKPETVWKKDQQLVTEGRRHVVEYDAQENFVLKILF  
CKQSDRGLYTCTASNLVGQTYSSVLVVVREPAVPFKKRLQDLEVREKESATFLCEVPQPS  
TEAAWFKEETRLWASAKYGIEEGTERRLTVRNVSADDDAVYICETPEGSRTVAELAVQG  
NLLRKLPRKTAVRVGDTAMFCVELAVPVGPHWLRNQEEVAGGRVAISAEGTRHTLTIS  
QCCLEDVGQVAFMAGDCQTSTQFCVSAPRKPPLQPPVDPVVKARMESSVILSWSPPHGE  
RPVTIDGYLVEKKKLGTYTWRICHEAEWVATPELTVADVAEEGNFQFRVSALNSFGQSPY  
LEFPGTVHLAPKLAVRTPLKAVQAVEGGEVTFSDLTVASAGEWFLDGQALKASSVYEIH  
CDRTRHTLTIREVPASLHGAQLKFVANGIESSIRMEVRAAPGLTANKPPAAAAREVLARL  
HEEAQLLAELSDQAAAVTWLKDGRTLSPGPKYEVQASAGRRVLLVRDVARDDAGLYECVS  
RGGRIAYQLSVQGLARFLHKDMAGSCVDAVAGGPAQFECETSEAHVHVHWYKGMELGHS  
GERFLQEDVGTRHRLVAATVTRQDEGTYSRVGEDSVDFRLRVSEPKVVFQQLARRKL  
QAEAGASATLSCEVAQAQTEVTWYKDGGKLSSSSKVCMEATGCTRRLVVQQAGQADAGEY  
SCEAGGQRLSFHLDVKEPKVVFQKQVAHSEVQAEAGASATLSCEVAQAQTEVMWYKDGG  
KLSSSLKVHVEAKGCRRLVQQAGKTDAGDYSCEARGQRVSFRLHITEPKMMFAKEQSV  
HNEVQAEAGASAMLSCEVAQAQTEVTWYKDGGKLSSSSKVGMEVKGCTRRLVLPQAGKAD  
AGEYSCEAGGQRVSFHLHITEPKGVFAKEQSVHNEVQAEAGTTAMLSCEVAQPQTEVTWY  
KDGGKLSSSSKVRMEVKGCTRRLVVQQVGKADAGEYSCEAGGQRVSFQLHITEPKAVFAK

EQLVHNEVRTEAGASATLSCEVAQAQTEVTWYKDGGKLSSSSKVRIEAAAGCMRQLVVQQA  
GQADAGEYTCEAGGQRLSFHLDVSEPKAVFAKEQLAHRKVQAEAGAIATLSCEVAQAQTE  
VTWYKDGGKLSSSSKVRMEAVGCTRRLVVQQACQADTGEYSCEAGGQRLSFSLDVAEPKV  
VFAKEQPVHREVQAAGASTTLSCEVAQAQTEVMWYKDGGKLSFSSKVRMEAVGCTRRLV  
VQQAGQAVAGEYSCEAGSQRLSFHLHVAEPKAVFAKEQPASREVQAEAGTSATLSCEVAQ  
AQTEVTWYKDGGKLSSSSKVRMEAVGCTRRLVVQEAGQADAGEYSCKAGDQRLSFHLHVA  
EPKVVFAKEQPAHREVQAEAGASATLSCEVAQAQTEVTWYKDGGKLSSSSKVRVEAVGCT  
RRLVVQQAGQAEAGEYSCEAGGQQLSFRLQVAELEPQISERPCRREPLVVKEHEDIILTA  
TLATPSAATVTWLKDGEIIRRSKRHETASQGDTHLTIVHGAQVLDSAIYSCRVGAEQQDF  
PVQVEEVAAKFCRLLEPVCGELGGTVTLACELSPACAEVWRCGNTQLRVGKRFQMV AEG  
PVRSLTVLGLRAEDAGEYVCESRDDHTSAQLTVSVPRVVKFMSGSLSTVVAEEGGEATFQC  
VVSPSDAVVWFRDGALLQPSEKFAISQSGASHSLTISDLVLEDAGQITVEAEGASSSAA  
LRVREAPVLFKKKLEPQTVEERSSVTLEVELTRPWPELRWTRNATALAPGKNVEIHAEGA  
RHRLVLHNVGFADRGFFGCETPDDKTQAKLTVEMRQVRLVRGLQAVEAREQGTATMEVQL  
SHADV DGSWTRDGLRFQQGPTCHLAVRGPMTLTL SGLRPEDSGLMVFAEGVHTSARLV  
VTELPVSFSRPLQDVVTTEKEKVTLECELSRPNVDVRWLKDGVELRAGKTMAIAAQGACR  
SLTIYRCEFADQGVYVCD AHDQAQSSASVKVQGRTYTLIYRRVLAEDAGEIQFVAENAESR  
AQLRVKELPVT LVRPLRDKIAMEKHGVL ECQVSRASAQVRWFKGSQELQPGPKYELVSD  
GLYRKLIISDVHAEDEDTYTCDAGDVKTSAQFFVEEQSITIVRGLQDVTVM EPAPAWFEC  
ETSI PSVRPPKWL LKGTVLQAGGNVLEQEGTVHRLMLRRTCSTMTGPVHFTVGKSRSSA  
RLVVS DIPVVLTRPLEPKTGRELQSVVLSCDFRPAPKAVQWYKDDTPLSPSEKFKMSLEG  
QMAELRILRLMPADAGVYRCQAGSAHSSTEVTVEAREVTVTGPLQDAEATEEGWASFSCE  
LSHEDEEVEWSLNGMPLYNDSFHEISHKGRRHTLV LKSIQRADAGIVRASSLKVSTSARL  
EVRVKPVVFLKALDDL SAEERGTLALQCEVSDPEAHVVWRKDGVLG PSDKYDFLHTAGT  
RGLVVDVSPEDAGLYTCHVGSEETRARVRVHDLHVGITKRLKTMEVLEGESECSFECVLS  
HESASDPAMWTVGGKTVGSSSRFQATRQGRKYILV VREAAPSDAGEVVSVRGLTSKASL  
IVRERPAAI IKPLEDQWVAPGEDVELRCELSRAGTPVHWLKD RKAIRKSQKYDVVCEGTM  
AMLVIRGASLKDAGEYTCEVEASKSTASLHVEEKANCFTEELTNLQVEEKGTAVFTCKTE  
HPAATVTWRKGLLELRASGKHQPSQEGTLRLTISALEKADSDTYTCDIGQAQSRALLV  
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TCDIPVCWTKDGKTLRGSARQLSHEGHRAQLLITGATLQDSGRYKCEAGGACSSSIVRV  
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LVVRNLRPQDSGRYSCSFGDQTTSATLTVTALPAQFIGKLRNKEATEGATATLRCELSKA  
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PAHFIGRLRHQESIEGATATLRCELSKAAPVEWRKGRESLRDGRHSLRQDGAVCELQIC  
GLAVADAGEYSCVCGEERTSATLTVKALPAKFTEGLRNEEAEGATAMLWCELSKVAPVE  
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IEDVKNQEAREGATAVLQCELSAAPVEWRKGSETLRDGDYSLRQDGTKCELQIRGLAM  
ADTGEYSCVCGQERTSAMLTVRALPIKFTEGLRNEEAEGATAVLRCELSKMAPVEWWKG  
HETLRDGRHSLRQDGARCELQIRGLVAEDAGEYLCMCGKERTSAMLTVRAMPSKFIEGL  
RNEEAEGDTATLWCELSKAAPVEWRKGHETLRDGRHSLRQDGSRCELQIRGLAVVDAG  
EYSCVCGQERTSATLTVRALPARFIEDVKNQEAREGATAVLQCELSKAAPVEWRKGSETL  
RGGDRYSLRQDGTRCELQIHGLSVADTGEYSCVCGQERTSATLTVRAPQPVFREPLQSLQ

AEEGSTATLQCELSEPTATVVWSKGGLQLQANGRREPRLQGCTAELVLQDLQREDTGEYT  
CTCGSQATSATLTVTAAPVRFLRELQHQEVEGGTAHLCCELSRAGASVEWRKGSLLQFP  
CAKYQMVQDGAEEALLVRGVEQEDAGDYTCDTGHTQSMASLSVRVPRPKFKTRLQSLEQE  
TGDIA RLCCQLSDAESGAVVQWLKEGVELHAGPKYEMRSQGATRELLIHQLEAKDTGEYA  
CVTGGQKTAASLRVTEPEVTIVRGLVDAEVTADEDVEFSCEVSRAGATGVQWCLQGLPLQ  
SNEVTEVAVRDGRIHTLRLKGVTPEDAGTVSFHLGNHASSAQLTVRAPEVTILEPLQDVQ  
LSEGGDASFCRLSRASGQEARWALGGVPLQANEMNDITVEQGTLLHLLTLHKVTLLEDAGT  
VSFHVGTCSSEAQLKVTAKN TVVRGLENVEALEGGEALFECQLSQPEVAAHTWLLDDEPV  
HTSENAEVVFFENGLRHLLLLKNLRPQDSCRVTFLAGDMVTS AFLTVRGWRLEILEPLKN  
AAVRAGAQA CFTCTLSEAVPVGEASWYINGAAVQPDDSDWTVTADGSHHALLLRSAPHH  
AGEVTFACRDAVASARLTVLGLPDPPEDAEVVARSSHTVTL SWAAPMSDGGGGLCGYRVE  
VKEGATGQWRLCHELVPGPECVVDGLAPGETYRFRVA AVGPVGAGEPVHLPQTVRLAEP  
KPVPPQPSAPESRQVAAGEDVSLELEVVAEAGEVIWHKGMERIQPGGRFEVVSQGRQML  
VIKGFTAEDQGEYHCGLAQGSICPAAATFQVALSPASVDEAPQPSLPPEAAQEGDLHLLW  
EALARKRRMSREPTLDSISELPEEDGRSQRLPQEAEEVAPDLSEGYSTADELARTGDADL  
SHTSSDDES RAGTPSLV TYLKKAGRPGTSPLASKVGAPAAPSVKPPQQQEQPLAAVRPPLG  
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ALGHLSLA EVGTEEF LQKLTSQITEMVSAKITQAKLQVPGGDSDEDSKTPSASPRHGRSR  
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LSAEYPVSSEGARDLQRGLRKGLVRLSRCYAGLSGGAVAF LRSTLCAQPWGRPCASSCLQ  
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>sp|075147|OBSL1\_HUMAN Obscurin-like protein 1 OS=Homo sapiens GN=OBSL1 PE=1 SV=4

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PGSGEGAPVFLTGPRSQWVLRGAEVVLTCRAGGLPEPTLYWEKGMALDEVWDS SHFALQ  
PGRAEDGP GASLALRILAARLPDSGVYVCHARNAHGHAGALLQVHQPPESPPADPDEA  
PAPVVEPLKCAPKTFWVNEGKHAKFR CYVMGKPEPEIEWHWEGRPLL PDRRRLMYRDRDG  
GFVLKVLVYCQAKDRGLYVCAARNSAGQTL SAVQLHVKEPRLRFTRPLQDVEGREHGI AVL  
ECKVPNSRIPTAWFREDQRLLPCKRYEQIEEGTVRRLI IHRLKADDDGIYLC EMRGRVRT  
VANVTVKGPILKRLPRKLDVLEGENAVLLVETLEAGVEGRWSRDGEELPVICQSSSGHMH  
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PEPAPETPFIYRLERQEVGSEDW IQCFSIEKAGAVEVPGDCVPSEG DYRFRICTVSGHGR  
SPHVVFHGS AHLVPTARLVAGLEDVQVYDGEDAVFSLDLSTIIQGTWFLNGEELKSNEPE  
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QDRVSLTFTTSE RVLTCELSRVDFPATWYKD GQKVEESELLVVKMDGRKHRLILPEAKV  
QDSGEFECRTEGVSAFFGVTVQDPPVHIVDPREHV FVHAITSEC VMLACEVDREDAPVRW  
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YPSGKVYYAAVRLERVVLTCELCRPWAEVRWTKDGEEVVES PALLLQKEDTVRRLVLP AV  
QLED SG EYLCEIDDESASFTVTVTEPPVRIIYPRDEVTLIAVTLECVVLMCELSREDAPV  
RWYKDGLEVEESEALVLERDGP RCRLVLPAAQPEDGGEFVCDAGDDSAFFTVTVTAPPER  
IVHPAARS LDLHFGAPGRVELRCEVAPAGSQVRWYKDGLEVEASDALQLGAEGPTRTLTL

PHAQPEDAGEYVCETRHEAITFNVILAEPVQFLAETTPSPLCVAPGEPVVLSCELSRAGAPVVWSHNGRPVQEGEGLELHAEGRRLVLCIQAAGPAHAGLYTCQSGAAPGAPSLSFTVQVAEPPVRVVAPEAAQTRVRSTPGGDLELVVHLSGPGGPVRWYKDGERLASQGRVQLEQAGARQVLRVQGARGSDAGEYLCDAQDSRIFLVSVEEPLLVKLVSELTPLTVEGDDATFRCEVSPPDADVTWLRNGAVVTPGPQVEMAQNGSSRILTLRGQQLGDAGTVTLRAGSTATSARLHVRETELLFLRRLQDVRAEEGQDVCLEVETGRVGAAGAVRWVRGGQPLPHDSRLSMAQDGHIIHRLFIIHGVILADQGTGCGESHHDRTLARLSVRPRQLRVLRLPLEDVTISEGGSATFQLLELSQEGVTGEWARGGVQLYPGPKCHIHSDGHRHRLVLNGLGLADSGCVSFTADSLRCAARLIVREVPVTIVRGPHDLEVTEGDTATFECELSQALADVTWEKDGNALTPSPRLRLQALGTRRLLQLRRCGPSDAGTYSCAVGTARAGPVRLTVRERTVAVLSELRSVSAREGDGATFECTVSEVETTGRWELGGRPLRPGARVRIQEGKKHILVLSSELRAEDAGEVRFQAGPAQSLALLEVEALPLQMCRRHPREKTVLVGRRVLEVTVSRSGGHVCWLREGAELCPGDKYEMRSHGPTHSLVIHDVRPEDQGTGCCAGQDSTHTRLLVEGN

>sp|Q02509|OC90\_HUMAN Otoconin-90 OS=Homo sapiens GN=OC90 PE=2 SV=3

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>sp|Q9H607|OCEL1\_HUMAN Occludin/ELL domain-containing protein 1 OS=Homo sapiens GN=OCEL1 PE=2 SV=1

MHNPDGSASPTADPGSELQTLGQAARRPPPPRAGHDAPRRTRPSARKPLSCFSRRPMPTR EPPKTRGSRGHLHTHPGPGPPLQGLAPRGLKTSAPRPPCQPQPGPHKAKTKKIVFEDEL LSQALLGAKKPIGAIPKGHKPRHPVPDYELKYPPVSSERERSRYVAVFQDQYGEFLELQ HEVGCAQAKLRQLEALLSSLPPPQSKEAQVAARVWREFEMKRMDPGFLDKQARCHYLGK KLRHLKTQIQKFDDQGDSEGSVYF

>sp|P29803|OPDAT\_HUMAN Pyruvate dehydrogenase E1 component subunit alpha, testis-specific form, mitochondrial OS=Homo sapiens GN=PDHA2 PE=1 SV=1

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>sp|O60313|OPA1\_HUMAN Dynamin-like 120 kDa protein, mitochondrial OS=Homo sapiens GN=OPA1 PE=1 SV=3

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DDFTSGSPEETAFRATDRGSESDKHFRKVS DKEKIDQLQEELLHTQLKYQRILERLEKEN  
KELRKLVLQKDDKGIHHRKLKSLIDMYSEVLDVLS DYDASYNTQDHLPRVVVVG DQSAG  
KTSVLEMIAQARIFPRGSGEMMTRSPVKVTLSE GPHHVALFKDSSREFDLTKEEDLAALR  
HEIELMRKNVKEGCTVSPETISLNVKG PGLQRMVLVDLPGVINTVTSGMAPDTKETIFS  
ISKAYMQNPNAIILCIQDGSVDAERSIVTDLVS QMDPHGRRTIFVLTKVDLAEKNVASPS  
RIQQIIIEGKLFPMKALGYFAVVTGKGNSSES IEAIREYEEFFQNSKLLKTSMLKAHQVT  
TRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLE TEWKNNYPRLRELD RNELFEKAKNE  
ILDEVISLSQVTPKHWEIILQQSLWERVSTHVIENIYLPAAQTMNSGTFNTTVDIKLKQW  
TDKQLPNKAVEVAWETLQEEFSRFMTEPKGKEHDDIFDKLKEAVKEESIKRHKWNDF AED  
SLRVIQHNALEDRSISDKQQWDAATYFMEEALQARLKDTENAIENMVGPDWKKRWLYWKN  
RTQEQCVHNETKNELEKMLKCNEHPAYLASDEITTVRKNLESRGVEVDPSLIKDTWHQV  
YRRHFLKTALNHCNLCRRGFYYYQRHFVDSELECNDVVLFWRIQRMLAITANTLRQQLTN  
TEVRRLEKNVKEVLEDAEDGEKKIKLLTGKRVQLAEDLKKVREIQEKLDAFIEALHQEK  
>sp|Q96PE5|OPALI\_HUMAN Opalin OS=Homo sapiens GN=OPALIN PE=2 SV=1  
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EAMEESDRPCEISEIDDNPKISENPRRSPTHEKNTMGAQEAHIYVKTVAGSEEPVHDRYR  
PTIEMERRRGLWWLVPRLSLE

>sp|Q14982|OPCM\_HUMAN Opioid-binding protein/cell adhesion molecule OS=Homo sapiens  
GN=OPCML PE=1 SV=1  
MGVCGYLFLPWKCLVVVSLRLLFLVPTGVPVRSGDATFPKAMDNVTVRQGESATLRCTID  
DRVTRVAWLNRSTILYAGNDKWSIDPRV IILVNTPTQYSIMIQNVDVYDEGPYTCSVQTD  
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VSEDEYLEISDIKRQSGEYEC SALNDVAAPDVRKVKITVNYPPYISKAKNTGVS VGQKG  
ILSCEASAVPMAEFQWFKEETRLATGLDGMRIENKGRMSTLTFFNVSEKDYGNYTCVATN  
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>sp|O60890|OPHN1\_HUMAN Oligophrenin-1 OS=Homo sapiens GN=OPHN1 PE=1 SV=1  
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SQTLSQSFQDFDIGDTLTDEINIAESFKEFAELLNEVENERMMM VHNASDLLIKPLENFR  
KEQIGFTKERKKKFEKDGERFYSLDRHLHLSSKKKESQLQEADLQVDKERHNF FESSLD  
YVYIQIEVQESKKFNIVEPVLAFHLSLFISNSLTVELTQDFLPYKQQLQLSLQNTRNHFS  
STREEMEELKKRMKEAPQTCKLPGQPTIEGYLYTQEKWALGISWVKYYCQYKETKTLTM  
TPMEQKPGAKQGPLDLTKYCVRRKTESIDKRFCFDIETNERPGTITLQALSEANRRLWM  
EAMDGKEPIYHSPITKQEMELNEVGFKFVRKCINI IETKGIKTEGLYRTVGSNIQVQKL  
LNAFFDPKCPGDVDFHNSDWDIKTITSSLKFYLRNLSEPVMTYRLHKELVSAAKSDNLDY  
RLGAIHSLVYKLPEKNREMLELLIRHLVNVCEHSKENLMTPSNMGVIFGPTLMRAQEDTV  
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VFYTSSLDESEDEIQHQTNGTITSSIEPPKPPQHPKLPIQRSGETDPGRKSPSRPILDG  
KLEPCPEVDVGKLVSRQLDGGTKITPKATNGPMPGSGPTKTPSFHIKRPAPRPLAHHKEG  
DADFSKVRPPGEKPTIIRPPVRPPDPPCRAATPQKPEPKPDIVAGNAGEITSSVVASRT  
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>sp|O14718|OPSX\_HUMAN Visual pigment-like receptor peropsin OS=Homo sapiens GN=RRH PE=1  
SV=1  
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NAIIINLAVTDIGVSSIGYPMSAASDLYGSWKFGYAGCQVYAGLNIFFGMASIGLLTVVA

VDRYLTI CLPDVGRMTTNTYIGLILGAWINGLFWALMPIIGWASYAPDPTGATCTINWR  
KNDRSFVSYTMTVIAINFIVPLTVMFYCYHHVTLSTIKHHTSDCTESLNRDWSQIDVTK  
MSVIMICMFLVAWSPYSIVCLWASFGDPKIPPPMAIIAPLFAKSSTFYNPCIYVANKK  
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>sp|Q9P1Q5|OR1A1\_HUMAN Olfactory receptor 1A1 OS=Homo sapiens GN=OR1A1 PE=2 SV=2  
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FLLANLSLVDIFFSSVTIPKMLANHLGSKSISFGGCLTQMYFMIALGNTDSYILAAMAY  
DRAVAISRPLHYTTIMSPRSCIWLIAGSWVIGNANALPHTLLTASLSFCGNQEVANFYCD  
ITPLLKLSCSDIHFHVKMMYLGVGIFSVPLLCIIVSYIRVFSTVFQVPSTKGVLKAFSTC  
GSHLTVVSLYYGTMGTYFRPLTNYSLKDAVITVMTAVTPMLNPFYSLRNRDMKAALR  
KLFNKRISS

>sp|P30953|OR1E1\_HUMAN Olfactory receptor 1E1 OS=Homo sapiens GN=OR1E1 PE=3 SV=1  
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DRYVAICFPLHYTAIMSPMLCLALVALSWVLTTFHAMLHTLLMARLCFCADNVIPHFFCD  
MSALLKLAFSDTRVNEWVIFIMGGLILVIPFLLILGSYARIVSSILKVPSSKGICKAFST  
CGSHLSVVSLFYGTVIGLYLCSSANSSTLKDTVMAMMYTVVTPMLNPFYSLRNRDMKGA  
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>sp|Q8NHA8|OR1FC\_HUMAN Olfactory receptor 1F12 OS=Homo sapiens GN=OR1F12 PE=3 SV=1  
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FFLANLSLVDLCPLSATVPKMLLNIQTQTQISYPGCLAQMYFCMMFANMDNFLTVMAY  
DRYVAICHPLHYSTIMALRLCASLVAAPWVIAILNPLLHTLMAHLHFCSDNVIIHFFCD  
INLLPLSCSDTSLNQLSVLATVGLIFVVPVSVILVSYILIVSAVMKVPQAQGLKAFST  
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>sp|P47890|OR1G1\_HUMAN Olfactory receptor 1G1 OS=Homo sapiens GN=OR1G1 PE=2 SV=2  
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FFLANLSLADACFVSTTVPKMLANIQIQSQAISYSGCLLQLYFFMLFVMLEAFLLAVMAY  
DCYVAICHPLHYILIMSPGLCIFLVSASWIMNALHSLHTLLMNSLSFCANHEIPHFFCD  
INPLLSLSCDTPFTNELVIFITGGLTGLICVLCLIIISYTNVFSTILKIPSAQGRKAFST  
CSSHLSVVSLFFGTSTFCVDFSSPSTHSAQKDTVASVMYTVVTPMLNPFYSLRNQEIKSS  
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>sp|Q8NGS2|OR1J2\_HUMAN Olfactory receptor 1J2 OS=Homo sapiens GN=OR1J2 PE=2 SV=1  
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FFLSHLALTDISFSSVTVPKMLMDMRKYKSILYEECISQMYFFIFFTDLDSFLITSMAY  
DRYVAICHPLHYTVIMREELCVFLVAVSWILSCASSLSHTLLTRLSFCAANTIPHVFC  
LAALLKLSCSDFLNLVMTVGVVVITLPFMCILVSYGYIGATILRVPSTKGIHKALST  
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>sp|Q8NH93|OR1L3\_HUMAN Olfactory receptor 1L3 OS=Homo sapiens GN=OR1L3 PE=2 SV=1  
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NRCVAICNPFIHYVTMNRCCVLLAFPIITFSYFHSLLHVLLVNRLTFCTSNVIIHFFCD  
VNPVLKLSCSSTFVNEIVAMTEGLASVMAFPVCIIISYLRILIAVLKIPSAAGKHAFST

CSSHLTVVILFYGSISYVYLQPLSSYTVKDRIATINYTVLTSVLNPFYISLRNKDMKRGL  
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>sp|Q95047|OR2A4\_HUMAN Olfactory receptor 2A4 OS=Homo sapiens GN=OR2A4 PE=2 SV=1  
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LYVAICHPLRYLAIMTWVRCITLAVTSWTTGVLLSLIHLVLLLPLPFCRPQKIYHFFCEI  
LAVLKLACADTHINENMVLAGAISGLVGPLSTIVVSYMCILAILQIQSREVQRKAFRTC  
FSHLCVIGLVYGTAIMYVGPRYGNPKEQKKYLLL FHS LFN PMLNPLICSLRNSEVKNTL  
KRVLGVERAL

>sp|Q5JQS5|OR2BB\_HUMAN Olfactory receptor 2B11 OS=Homo sapiens GN=OR2B11 PE=2 SV=1  
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AMALDRYVAICKPLHYAVLMHRALCQQLVALAWLSGFGNSFVQVVLTVQLPFCGRQVLNN  
FFCEVPAVIKLSCADTAVNDTILAVLVAFFVLVPLALILLSYGFIAVLRISQSSKGRHK  
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>sp|Q95918|OR2H2\_HUMAN Olfactory receptor 2H2 OS=Homo sapiens GN=OR2H2 PE=2 SV=2  
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YVAVCQPLHYATIIHPRLCWQLASVAWVIGLVESVVTPTSLHLFPQDRQVDDFVCEVP  
ALIRLSCEDTSYNEIQVAVASVFILVVPLSLILVSYGAITWAVLRINSAKGRRKAFGTCS  
SHLTVVTLFYSSVIAVYLQPKNPYAQERGKFFGLFYAVGTPSLNPLIYTLRNKEVTRAFR  
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>sp|Q8NH03|OR2T3\_HUMAN Olfactory receptor 2T3 OS=Homo sapiens GN=OR2T3 PE=2 SV=2  
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SFFCETPALLKLSCSDVSLYKTLMYLCCILMMLAPIMVISSSYTLILHLIHRMNSAAGHR  
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>sp|Q8NHC8|OR2T6\_HUMAN Olfactory receptor 2T6 OS=Homo sapiens GN=OR2T6 PE=3 SV=2  
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FLLSHLSVIDTLYISTIVPKMLVDYLMGEGTISFIAC TAQCFLYMGFMGAEFFLLGLMAY  
DRYVAICNPLRYPVLISWRVCWMLASSWFGGALDSFLLTPITMSLPFCASHQINHHFCE  
APTMLRLACGDKTTYETVMYVCCVAMLLIPFSVVTASYTRILITVHQMTSAEGRKKAFAT  
CSSHMMVVTLFYGAALYTYTLPQSYHTPIKDKVFSAFYTILTPLLNPLIYSLNRNDRVMGA  
LKR VVARC

>sp|A6NH00|OR2T8\_HUMAN Olfactory receptor 2T8 OS=Homo sapiens GN=OR2T8 PE=3 SV=1  
MENGSYTSYFILLGLFNHTRAHQVLFMMVLSIVLTSLFGNSLMILLIHWDRHLHTPMYFL  
LSQLSLMDVMLVSTTPVKMAADYLTGSKAISRAGCGAQIFLPTLGGGECFLLAAMAYDR  
YAAVCHPLRYPTLMSWQLCLRMNLSCWLLGAADGLLQAVATLSFPYCGAHEIDHFFCETP  
VLVRLACADTSVFENAMYICCVMLLVPFSLILSSYGLILAAVLHMRSTEARKKAFATCS  
SHVAVVGLFYGAALFTYMRPKSHRSTNHDKVVSAFYTMFTPLLNPLIYSVKNSEVKGALT  
RCMGRCVALSRE

>sp|Q8NGV0|OR2Y1\_HUMAN Olfactory receptor 2Y1 OS=Homo sapiens GN=OR2Y1 PE=2 SV=1  
MGSFNSTFEDGFILVGFSDWPQLEPILFVFIFIFYSLTLFGNTIIIALSWDLRLHTPMY  
FFLSHLSLLDLCFTTSTVPQLLINLCGVDRITTRGGCVAQLFIYLALGSTECVLLVVMF  
DRYAAVCRPLHYMAIMPHLCQTLAIASWGAGFVNSLIQTGLAMAMPLCGHRLNHFFCEM  
PVFLKLACADTEGTEAKMFVARVIVVAVPAALILGSYVHIAHAVLRVKSTAGRRAFGTC  
GSHLLVFLFYGSAIYTYLQSIHNSEREGKFVALFYTIITPILNPLIYTLRNKDVKGAL  
WKVLWRGRDSG

>sp|Q8NGI9|OR5A2\_HUMAN Olfactory receptor 5A2 OS=Homo sapiens GN=OR5A2 PE=2 SV=1  
MAVGRNNTIVTKFILLGLSDHPQMKIFLFLGLYLLTLAWNLSLIALIKMDSHLHMPM  
YFFLSNLSFLDICYVSTAPKMLSDIITEQKTISFVGCATQYFVFCGMGLTECFLLAAMA  
YDRYAAICNPLLYTVLISHTLCLKMVVGAYVGGFLSSFIETYSVYQHDFCGPYMINHFFC  
DLPPVLALSCSDTFTSEVVTIVSVVVGIVSVLVVLISYGYIVAADVKKISSATGRTKAFS  
TCASHLTAVTLFYGSGFFMYMRPSSSYSLNRDKVVSIFYALVIPVNPPIYSFRNKEIKN  
AMRKAMERDPGISHGGPFIFMTLG

>sp|Q8NH48|OR5B3\_HUMAN Olfactory receptor 5B3 OS=Homo sapiens GN=OR5B3 PE=3 SV=1  
MENKTEVTQFILLGLTNDSELQVPLFITFPFIYIITLVGNLGIIVLIFWDSCLHNPMYFF  
LSNLSLVDFCYSSAVTPIVMAGFLIEDKVISYNACAAQMYIFVAFATVENYLLASMAYDR  
YAAVCKPLHYTTTMTTVCARLAIGSYLCGFLNASIHTGDTFSLSFCKSNEVHHFFCDIP  
AVMVLSCSDRHISELVLIYVVSFNIFIALLVILISYTFIFITILKMHASVYQKPLSTCA  
SHFIAVGIFYGTIIFMYLQPSSSHSMDTDKMAPVFYTMVIPMLNPLVYSLRNKEVKSFAK  
KVVEKAKLSVGWSV

>sp|Q8NGF7|OR5B17\_HUMAN Olfactory receptor 5B17 OS=Homo sapiens GN=OR5B17 PE=3 SV=1  
MENNTEVSEFILLGLTNAPELQVPLFIMFTLIYLITLVGNLGMIIILLLDSSLHTPMYFF  
LSNLSLAGIGYSSAVTPKVLTLGLIEDKAISYSACAAQMFFCAVFATVENYLLSSMAYDR  
YAAVCNPLHYTTTMTTRVCACLAIGCYVIGFLNASIQIGDTFRLSFCMSNVIHHFFCDKP  
AVITLTCSEKHISELILVLISSFNVFALLVTLISYLFILITILKRHTGKGYSQKPLSTCG  
SHLIAIFLFYITVIIMYIRPSSSHSMDTDKIASVFYTMIIIPMLSPIVYTLRNKDVKNAFM  
KVVEKAKYSLDSVF

>sp|Q8NGL4|OR5D13\_HUMAN Olfactory receptor 5D13 OS=Homo sapiens GN=OR5D13 PE=3 SV=2  
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MCFFLSHLSLTDGFCSTVTPKLENLVVEYRTISFSGCIMQFCFACIFGTETFMLAAM  
AYDRFVAVCKPLLYTTIMSQKLCALLVAGSYTWGIVCSLILTYFLDLDFCESTFINNFI  
CDHSVIVSASYSDPYISQRLCFIIAIFNEVSSLIIILTSYMLIFTTIMKMRASGRQKTF  
STCASHLTAITIFHGTLILFLYCVPNPKTSSLIIVTVASVFYTAIPMLNPLIYSLRNKDIN  
NMFELVVTCLIYH

>sp|Q13606|OR5I1\_HUMAN Olfactory receptor 5I1 OS=Homo sapiens GN=OR5I1 PE=2 SV=1  
MEFTDRNYTLVTEFILLGFPTRPELQIVFLMFLTYAIIILIGNIGMLLIRIDPHLQTP  
MYFFLSNLSFVDLCYFSDIVPKMLVNFLSENKSISYYGCALQFYFFCTFADTESFILAAM  
AYDRYVAICNPLLYTVVMSRGICMRLIVLSYLGGMSSLVHTSFASILKYCDKNVINHFF  
CDLPPLLKLSCTDTTINWLLSTYGSSVEIICFIIIIISYFFILLSVLKIRSFSGRKKTF  
STCASHLTSVTIYQGTLFFIYSRPSYLYSPNTDKIISVFYTFIPVLNPLIYSLRNKDVK  
DAAEKVLRSKVDSS

>sp|Q8NGP8|OR5M1\_HUMAN Olfactory receptor 5M1 OS=Homo sapiens GN=OR5M1 PE=3 SV=1  
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FFLGHLSFVDICYSSNVTNMLHNFLSEQKTISYAGCFTQCLLFIALVITEFYILASMAL  
DRYVAICSPLHYSSRMSKNICVCLVTIPYMYGFLSGFSQSLLTFHLSFCGSLEINHFYCA  
DPPLIMLACSDTRVKMAMFVAVAGNLSLFIILLSYLFIFAAIFRIRSAEGRHKAFST  
CASHLTIVTLFYGTLCMYVRPPSEKSVEESKITAVFYTFLSPMLNPLIYSLRNTDVILA  
MQQMIRGKSFHKIAV

>sp|Q8NGP3|OR5M9\_HUMAN Olfactory receptor 5M9 OS=Homo sapiens GN=OR5M9 PE=3 SV=1  
MPNFTDVTEFTLLGLTCRQELQVLFFVFLAVYMITLLGNIGMIILISISPQLQSPMYFF  
LSHLSFADVCFSSNVTPKMLENLLSETKTISYVGLVQCYFFIAVVHVEVYILAVMAFDR  
YMAGCNPLLYGSKMSRTVCVRLISVPYVYGFSVSLICTLWYGLYFCGNFEINHFYCADP  
PLIQIACGRVHIKEITMIVIAGINFTYSLSVLISYTLIVVAVLRMSADGRRKAFSTCG  
SHLTAVSMFYGTPIFMYLRRPTEESVEQGKMVAVFYTTVIPMLNPMIYSLRNKDVKEAVN  
KAITKTYVRQ

>sp|Q96RB7|OR5MB\_HUMAN Olfactory receptor 5M11 OS=Homo sapiens GN=OR5M11 PE=2 SV=2  
MSNTNGSAITEFILLGLTDCPELQSLFLVFLVYLVLTLLGNLGMIMLRLDSRLHTPMY  
FFLTNLAFVDLCYTSNATPQMSTNIVSEKTISFAGCFTQCYIFIALLLTEFYMLAAMAYD  
RYVAIYDPLRYSVKTSRRVCICLATFPYVYGFSDDLQAILTFRLTCRSSVINHFYCAD  
PPLIKLSCSDTYVKEHAMFISAGFNLSSSLTIVLVSYAFILAAILRIKSAEGRHKAFSTC  
GSHMMAVTLFYGTLCMYIRPPTDKTVEESKIIAVFYTFVSPVLNPLIYSLRNKDVKQAL  
KNVLR

>sp|O95222|OR6A2\_HUMAN Olfactory receptor 6A2 OS=Homo sapiens GN=OR6A2 PE=2 SV=2  
MEWRNHSGRVSEFVLLGFPAPAPLQVLLFALLLAYVLVTENTLIIMAIRNHSTLHKPM  
YFFLANMSFLEIWIYVTVTIPKMLAGFVGSKQDHGQLISFEGCMTQLYFFLGLGCTECVLL  
AVMAYDRYMAICYPLHYPVIVSGRLCVQMAAGSWAGGFGISMVKVFLISGLSYCGPNIIN  
HFFCDVSPLLNLSCTDMSTAELTDFILAIFILLGPLSVTGASYVAITGAVMHIPSAAGRY  
KAFSTCASHLTVVIIIFYAASIFIYARPKALSAFDTNKLVSPLYAVIVPLLNPIIYCLRNQ  
EVKRALCCTLHLYQHQPDPKKASRN

>sp|Q8NGW1|OR6B3\_HUMAN Olfactory receptor 6B3 OS=Homo sapiens GN=OR6B3 PE=3 SV=1  
MSGENVTRVGTFILVGFPTAPGLQYLLFLLFLLTYLFLVENLAIILTVWSSTSLHRPMY  
YFLSSMSFLEIWIYVSDITPKMLEGFLQKQKRISFVGCMTQLYFFSSLVCTECVLLASMAY  
DRYVAICHPLRYHVLVTPGLCLQLVGFSFVSGFTISMIKVCFISSVTFCGSNVLNHFCD  
ISPILKLACTDFSTAELVDFILAFIILVFPLLATMLSYAHITLAVLRIPSATGCWRAFFT  
CASHLTVTVFYTALLFMYVRQAIDSRSSNKLISVLYTVITPILNPLIYCLRNKEFKNA  
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>sp|Q8NGE1|OR6C4\_HUMAN Olfactory receptor 6C4 OS=Homo sapiens GN=OR6C4 PE=2 SV=1  
MKNRTMFGFILLGLTNQPELQVMIFIFLFLTYMLSILGNLTITLTLLDPHLQTPMYFF  
LRNFSFLEISFTSIFIPRFLTSMTTGNKVISFAGCLTQYFFAIFLGATEFYLLASMSYDR  
YVAICKPLHYLTIMSSRVCIQLVFCSWLGGFLAILPPIILMTQVDFCVSNILNHYYCDYG  
PLVELACSDTSLELMVILLAVVTLMVTLVLTLSYTYIIRTILRIPSAQQRKAFSTCS  
SHMIVISLSYGSCMFMYINPSAKEGGAFNKGI AVLITSVTPLLNPFITYTLRNQVQKQAFK  
DSVKKIVKL

>sp|Q8NGW6|OR6K6\_HUMAN Olfactory receptor 6K6 OS=Homo sapiens GN=OR6K6 PE=2 SV=2  
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LIYGFILTGNLIMFIVIQVGMALHTPLYFFISVLSFLEICYTTTTIPKMLSCLISEQKSI  
SVAGCLLQMYFFHSLGITESCVLTAIDAIDRYIAICNPLRYPTIMIPKLCIQLTVGSCFCG

FLLVLPETIAWISTLPFCGSNQIHQIFCDFTPVLSLACTDTFLVVIVDAIHAAEIVASFLV  
IALSYIRIIIVILGMHSAEGHHKAFSTCAAHLAVFLLFFGSVAVMYLRFSATYSVFWDTA  
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>sp|Q8NGX9|OR6P1\_HUMAN Olfactory receptor 6P1 OS=Homo sapiens GN=OR6P1 PE=3 SV=1  
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FFLGHLSFLELWYINVTIPRLAAFLTQDGRVSYVGCMTQLYFFIALACTECVLLAVMAY  
DRYLAICGPLLYPSLMPSSLATRLAAASWGS GFFSSMMKLLFISQLSYCGPNIINHFFCD  
ISPLLNLTCSDKEAELVDLFLALVMILLPLLAVVSSYTAIIAAILRIPTSRGRHKAFST  
CAAHLAVVVIIYSSLTFTYARPRAMYTFNHNKIISVLYTIIVPPFNPAIYCLRNKEVKEA  
FRKTMGRCHYPRDVQD

>sp|Q8NH40|OR6S1\_HUMAN Olfactory receptor 6S1 OS=Homo sapiens GN=OR6S1 PE=3 SV=2  
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MYFFLGNLSCLEILLTSVIIPKMLSNFLSRQHTISFAACITQFYFYFFLGASEFLLAVM  
SADRYLAICHPLRYPLMSGAVCFRVALACWVGLVPVLGPTVAVALLPFCKQGAVVQHF  
FCDSGPLRLACTNTKLEETDFVLASLVIVSSLLITAVSYGLIVLAVLSIPSASGRQKA  
FSTCTSHLIVVTLFYGSAIFLYVRPSQSGSVDTNWAVTVITTFVTPLLNPFIIYALRNEQV  
KEALKDMFRKVVAGVLGNLLLDKCLSEKAVK

>sp|Q8NGN1|OR6T1\_HUMAN Olfactory receptor 6T1 OS=Homo sapiens GN=OR6T1 PE=2 SV=1  
MNPENWTQVTSFVLLGFPSSHLIQFLVFLGLMVTYIVTATGKLLIIVLSWIDQRLHIQMY  
FFLRNFSFLELLLVTVVVKMLVVILTGHTISFVSCIIQSYLYFFLGTTDFLLAVMSL  
DRYLAICRPLRYETLMNGHVCSQLVLASWLAGFLWVLCPTVLMASLPFCGPNGIDHFFRD  
SWPLLRLSCGDTHLLKLVAFMLSTLVLLGSLALTSVSYACILATVLRAPTA AERRKAFST  
CASHLTVVVIIYGSSIFLYIRMSEAQSKLLNKGASVLSCIITPLLNPFIFTLRNDKVQQA  
LREALGWPRLTAVMKLRVTSQRK

>sp|Q8NH79|OR6X1\_HUMAN Olfactory receptor 6X1 OS=Homo sapiens GN=OR6X1 PE=2 SV=1  
MRNGTVITEFILLGFPVIQGLQTPLFIAIFLTYILTLAGNGLIATVWAEPRQLIPMYFF  
LCNLSFLEIWIYTTVIPKLLGTFFVARTVICMSCLLQAFHFHFFVGTTEFLILTMSFDR  
YLTICNPLHHPTIMTSKLCLQLALSSWVVGFTIVFCQTMLLIQLPFCGNNVISHFYCDVG  
PSLKAACIDTSILELLGVIIATILVIPGSLLFNMISYIYILSAILRIPSATGHQKTFSTCA  
SHLTVVSLLYGAVLFMYLRPTAHSSFKINKVSVLNTILTPLLNPFIYTIRNKEVKGALR  
KAMTCPKTGHA

>sp|Q8NGA0|OR7G1\_HUMAN Olfactory receptor 7G1 OS=Homo sapiens GN=OR7G1 PE=3 SV=2  
MGPRNQTA VSEFLLMKVTEDELPKLIPFSLFSLMYLVITLGNLLILLAVISDSHLHTPMY  
FLLFNLSFTDICLTTTTPVKILVNIQAQNSITYTGCLTQICLVLVFAGLESCFLAVMAY  
DRYVAICHPLRYTVLMNVHFWGLLILLSMFMTMDALVQSLMVLQSFCKNVEIPLFFCE  
VVQVIKLACSDTLINNIIYFASSVFGAIPLSGIIFSYSQIVTSVLRMPSARGKYKAFST  
CGCHLSVFSLFYGTAFGVYISSAVAESSRITAVASVMYTVVPQMMNPFIYSLRNKEMKKA  
LRKLIGRLPPF

>sp|O43929|ORC4\_HUMAN Origin recognition complex subunit 4 OS=Homo sapiens GN=ORC4 PE=1  
SV=2

MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFQVQVQYKHLSELLKRTALHGES  
NSVLIIGPRGSGKTM LINHALKELMEIEEVS ENVLQVHLNGLLQINDKIALKEITRQLNL  
ENVVGDKVFGSFAENLSFLEALKKGDR TSSCPVIFILDEFDLFAHKNQTL LYNLFDIS  
QSAQTPIAVIGLTCRLDILELLEKRVKSRFSHRQIHLMNSFGFPQYVKIFKEQLSLPAEF

PDKVFAEKWNENVQYLSEDRSVQEV LQKHFNISKNL RSLHMLLMLALNRVTASHPFMTAV  
DLMEASQLCSMDSKANIVHGLSVLEICLI IAMKHLNDIYEEEPFNFQMVYNEFQKFVQRK  
AHSVYNFEKPVVMKAFAEHLQQLELIKPMERTSGNSQREYQLMKLLLDNTQIMNALQKYPN  
CPTDVRQWATSSLSWL

>sp|Q9UJX0|OSGI1\_HUMAN Oxidative stress-induced growth inhibitor 1 OS=Homo sapiens  
GN=OSGIN1 PE=1 SV=3

MGKWRPRGCCRGNMQCRQEV PATLTSSSELFSTRNQPQPQPQLLADAPVPWAVASRMCLT  
PGQGCQHGGQDEGPLPAPSPPPAMSSSRKDHLGASSSEPLPVIIVGNGPSGICLSYLLSG  
YTPYTKPDAIHPPHLLQRKLTEAPGV SILDQDL DYSEGLEGRSQSPVALLFDALLRPDT  
DFGGNMKSVLTWKHRKEHAIPHVVLGRNLPGGAWHSIEGSMVILSQGQWMGLPDLEV KDW  
MQKKRRGLRNSRATAGDIAHYRDYVVKGLGHNFVSGAVVTAVEWGTDPSSCGAQDSS  
PLFQVSGFLTRNQAQQPFSLWARNVVLATGTFDSPARLGIPGEALPFIHHELSALEAATR  
VGAVTPASDPVLIIGAGLSAADAVLYARHYNIPVIHAFRRAVDDPGLVFNQLPKMLYPEY  
HKVHQMMREQSILSPSPYEGYRSLPRHQLLCKEDCQAVFQDLEGVEKVFVSLVLVLIG  
SHPDLSFLPGAGADFAVDPDQPLSAKRNPIDVDPFTYQSTRQEGLYAMGPLAGDNFVRV  
QGGALAVASSLLRKETRKPP

>sp|P10451|OSTP\_HUMAN Osteopontin OS=Homo sapiens GN=SPP1 PE=1 SV=1

MRIAVICFLLGITCAIPVKQADSGSSEEKQLYNKY PDAVATWLNPDPSQKQNLLAPQNA  
VSSEETNDFKQETLPSKSNESHDMDDMDEDDDDHVDSQDSIDSNSDDVD DTDSSHQS  
DESHHSDSEDELVTDFPTDLPATEVFTPVVPTVD TYDGRGDSVVYGLRSKSKKFRRPDIQ  
YPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQ LDDQSAETHSH  
KQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKF  
RISHELDSASSEVN

>sp|Q9NRC9|OTOR\_HUMAN Otoraplin OS=Homo sapiens GN=OTOR PE=1 SV=1

MARILLFLPGLVAVCAVHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINV  
KKGQQIYVYSKLVKENGAGEFWAGSVYGDGQDEM GVVGYPFRNLVKEQRVYQEATKEVPT  
TDIDFFCE

>sp|Q8TE49|OTU7A\_HUMAN OTU domain-containing protein 7A OS=Homo sapiens GN=OTUD7A PE=1  
SV=1

MVSSVLPNPTSAECWAALLHDPMTLDMDAVLSDFVRSTGAEPGLARDLLEGKNWDLTAAL  
SDYEQLRQVHTANLPHVFNEGRGPKQPEREPQPGHKVERPCLQRQDDIAQEKRLSRGISH  
ASSAIVSLARSHVASECNEQFLEMPIYTFQLPDL SVYSEDFRSFIERDLIEQATMVAL  
EQAGRLNWWSTVCTSCKRLPLATTGDGNCLLHAASLGMWGFHDRDLVLRKALYTM MRTG  
AEREALKRRRWQQTQQNKEEWEWERWTELLKLASSEPRTHFSKNGGTGGGV DNSEDPVY  
ESLEEFHVFLAHILRRPIVVADTMLRDSGGAEAFAPIPFGGIYLPLEVPPNRCHCSPLV  
LAYDQAHFSALVSMEQRDQQREQAVIPLTSEHKLLPLHFAVDPGKDWEWGKDDNDNARL  
AHLILSLEAKNLNLSYMNVTWIRIPSETRAPLAQPESPTASAGEDVQSLADSLDSRDS  
VCSNSNSNNGKNGKDKKEKQKREKDKTRADSVANKLGSFSKTLGIKLKKNMGGLGLVH  
GKMGRANSANGKNGDSAERGKEKKAKSRKGSKEESGASASTSPSEKTPSPTDKAAGASP  
AEKGGGPRGDAWKYSTDVKLSLNLRAAMQGERKFI FAGLLLTSHRHQFHEEMIGYYLTS  
AQERFSAEQEQRRRDAATAAAAAAAAAAATAKRPPRRPETEGVPVPERASPGPPTQLVLK  
LKERPSGPAAGRAAAAGGTASPGGGARRASASGPVPGRSPPAPARQSVIHVQASGAR  
DEACAPAVGALRPCATYPQQNRSLSSQSYSPARAAALRTVNTVESLARAVPGALPGAAGT  
AGAAEHKSQTYTNGFGALRDGLEFADADAPTARSNGECGRGGPGPVQRRQCRENCAFYGR

AETEHYCSYCYREELRRRREARGARP

>sp|Q96G74|OTUD5\_HUMAN OTU domain-containing protein 5 OS=Homo sapiens GN=OTUD5 PE=1 SV=1

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PRASPPPQG PLPGPPGALHRWALAVPPGAVAGPRPQQASPPPCGGPGGPGGGPGDALGAA  
AAGVGAAGVVVG VGGAVGVGGCCSGPGH SKRRRQAPGVGAVGGGSPERE EVGAGYNSEDE  
YEAAAARIEAMPATVEQQEHWF EKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMH  
EVVRKHCDYLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPV EYQ  
YSTGTSAVEPINTFHGIHQNEDEPIRVSYHRNIHNSVVPNKATIGVGLGLPSFKPGFA  
EQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVARES YLQWLRDQEKQARQ  
VRGPSQPRKASATCSSATAAASSGLEEWT SRSPRQRSSASSPEHPELHAELGMKPPSPGT  
VLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALECRALIQQMSPSAFGLNDWDDDE  
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>sp|Q7RTY7|OVCH1\_HUMAN Ovochymase-1 OS=Homo sapiens GN=OVCH1 PE=2 SV=2

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QVSLKSDEHHFCGGLIQEDRVVTA AHCLDSLSEKQLKNITVTSGEYSLFQKDKQEQNIP  
VSKIITHPEYNSREYMSPDIALLYLKHVKVFGNAVQPICLPDSDDKVEPGILCLSSGWGK  
ISKTS EYSNVLQEMELPIMDDRACNTVLKSMNLPPLGRTMLCAGFPDWGMDACQGD SGGP  
LVCRRGGGIWILAGITSWVAGCAGGSVPVRNNHV KASLGIFSKVSELMDFITQNLFTGLD  
RGQPLSKVGSRYITKALSSVQEVNGSQRGKGILDM EKQVGCDHDYVSLRSSSGVLFNQRS  
LMEDDGKQNKRVCGKILPSPLLAETSEAMVPFVSDTEDSGSGFELTVTAVQKSEAGSGCG  
SLAILVEEGTNHSAKYPDLYPSNIRCHWFICAPEKHIIKLT FEDFAVKFSPNCIYDAVVI  
YGDSEEKHKLAKCGMLTITSIFSSSNMTVIYFKSDGKNRLQGFKARFTILPSESLNKFE  
PKLPPQNNPVSTVKAILHDVCGIPPFSPQWLSRR IAGGEEACPHCW PWQVGLRFLGDYQC  
GGAIINPVWILTAACHVQLKNNPLSWTIIAGDHDRNLKESTEQVRRAKHII VHEDFNTLS  
YDSDIALIQLSSPLEYNSVVRPVCLPHSAEPLFSSEICAVTGWGSI SADGGLASRLQQIQ  
VHVLEREVCEHTYYS AHPGGITEKMICAGFAASGEKDFCQGD SGGPLVCRHENGPFVLYG  
IVSWGAGCVQPWKPGVFARVMIFLDWIQSKINGPASLQTNNKCKTLKQLPPPTSPDSA  
SWPGCCSEAELEKPRGFPTPRYLLDYRGRLECSWVLRVSPSSMAKFTIEYLSLLGSPVC  
QDSVLIIEERH SKRKTAGGLHGRRLYSMTFMSPGPLVRVTFHALVRGAFGISYIDLKVL  
GPKDSKITRLSQSSNREHLVPCEDVLLTKPEGIMQIPRNSHRTTMGCQWRLVAPLNHIIQ  
LNIINFPMKPTTFVCHGHLRVYEGFGPGKKLIASFAGTLAMILTKDILKREKLNFINTYI  
MHIWENSVDNVR SVGKRKQKKFASNLSYSMEAEKSRIQVPADLVPAKGSLSGS

>sp|Q7RTZ1|OVCH2\_HUMAN Ovochymase-2 OS=Homo sapiens GN=OVCH2 PE=3 SV=2

MLISRNLILLGLIVFFFERGKSATLSLPKAPSCGQSLVKVQPWNYFNIFSRILGGSQVEK  
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TLTIETVIIHPHFSTKKPMDYDIAL LKMAGAFQFGHFVGPICLP ELREQFEAGFICTTAG  
WGRLTEGGVLSQVLQEVNLPILTWE ECVAALLTLKRPI SGKTFLCTGFPDQGRDACQGDS  
GGSLMCRNKKGAWTLAGVTSWGLGCGRGWRNNVRKSDQGS PGIFTDISKVLPIHEHIQT  
GNRRKSSRAWCSEQDIVSGAEGKLHFPESLHLYYESKQRCVWTL LVPEEMHVLLSF SHL  
DVESCHHSYLSMYSEDRPIGKFCGESLPSSILIGSNSLR LKFVSDATDNAARFNLT YKA  
LKPNYIPDSGCSYLTVLFEGLIQSLNYPENYS DKANCDWIFQASKHHLIKLSFQSLEIE  
ESGDCTSDYVTVHSDVERKKEIARLCGYDVPTPVLSPSSIMLISFHSDENGTCRGFQATV  
SFIPKAGKKIELPTLWFPVLILVM

>sp|P14920|OXDA\_HUMAN D-amino-acid oxidase OS=Homo sapiens GN=DAO PE=1 SV=3



MRVVVIGAGVIGLSTALCIHERYHVSVLQPLDIKVYADRFTPLTTTDVAAGLWQPYLSDPN  
NPQEADWSQQTFDYLLSHVHSPNAENLGLFLISGYNLFHEAIPDPSWKDTVLGFRKLT  
ELDMFPDYGYGWFTSLILEGKNYLQWLTERLTERGVKFFQKVESFEEVAREGADVIVN  
CTGVWAGALQRDPLLQPGRGQIMKVDAPWMKHFILTHDPERGIYNSPYIIPGTQTVTLGG  
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>sp|Q5BKU9|OXLD1\_HUMAN Oxidoreductase-like domain-containing protein 1 OS=Homo sapiens  
GN=OXLD1 PE=2 SV=1

MLLRRVVEGGRAVAAVRGSGARRFSSPDCCQRLPGGGSFLQRHHPGAQAPDGRRKFGTD  
HVEVGSQAGADGTRPPKASLPPELQPPTNCCMSGCPNCVWVEYADRLLQHFQDGGGERALA  
ALEEHVADENLKAFLRMEIRLHTRCGG

>sp|A6NNC1|P12LL\_HUMAN Putative POM121-like protein 1-like OS=Homo sapiens PE=5 SV=3

MPEQDKDPRVQENPDDQRTVPEVTGDARSAFWPLRDNGGSPFPVPRPGPLQTDLHAQSSE  
IRYNHTSQTSSSTSKRNAISSYSSTGGLPGLKQRRGPASSRCQLTLSYSKTVSEDRP  
QAVSSGHTRCEKGADTAPGQTIAPTGGSPRSQDSRPRRRKIPLPRRRGEPLMLPPPEL  
GYRVTAEDLHLEKETAFQRINSALHVEDKAIPDCRPSRPSHTLSSLATGASGGPPVSKAP  
TMDAQQDRPKSQDSLGLLAPLASAAEVPSTAPVSGKKHRPPGPLFSSSDPLPATSYHSRD  
TAQVTSVIPATFTAASRDAGMRRTSAPAAATAAPPSTLNNTSGSLLNAVDGGPSHFLA  
SATAAARAQRSEVRYNQRSQTSRTRSCLRNASSSSSSHSSTEGLQELKRRRGPASSHCQ  
LAHSSSNVTSEDGPQAVSSGHRCEKAGTAPGQTLAPRGGSQASRPINSALYVEDK  
AISDCRPSRPSHTLSSLATGASGGPPVSKAPTMDAQQDRPKSQDCLGLVAPLASAAEVP  
TAPVSGKKHRPPGPLFSSSDPLPATSSSRDSAQVTSVIPATFTAASRDAGMRRTRPGTS  
APAAAAAALPPSTLNPTSGSLLNAVDGGPSHFLASATAAARAQRSEVRYNQRSQTSRTR  
CLRNASSSSHSSTEGLQELKRRRGPASSHCQLAHSSSNVTSEDGPQAVSSGHRCEKAG  
TAPGQTLAPRGGYPRSQASRPINSALHVEDKAISDCRPSRPSHTLSSLATGASGGPPVS  
KAPTMDAQQDRPKSQDCLGLLAPLASAAEVSSTAPVSGKKHRPPGPLFSSSDPLPATSSH  
SGDSAQDTSVIPAPFTPASRDAGIRRMFRVRNCLRGLGLFLLVFSFFFLTWASFSF

>sp|O15460|P4HA2\_HUMAN Prolyl 4-hydroxylase subunit alpha-2 OS=Homo sapiens GN=P4HA2 PE=1  
SV=1

MKLWVSALLMAWFGVLSCVQAEFFTSIGHMTDLIYAEKELVQSLKEYILVEEAKLSKIKS  
WANKMEALTSKSAADAEGYLAHPVNAYKLVKRLNTDWPALDVLQDSAAGFIANLSVQR  
QFFPTDEDEIGAALKMRLQDITYRLDPGTISRGEPLGTYQAMLVDDCFGMGRSAYNEG  
DYYHTVLWMEQVLKQLDAGEEATTTKSQVLDYLSYAVFQLGDLHRALELTRRLSLDPSH  
ERAGGNLRYFEQLLEEREKTLTNQTEAELATPEGIYERPVDYLPERDVYESLCRGEV  
LTPRRQKRLFCRYHHGNRAPQLLIAPFKEEDEWDSPIVRYDVMSDEETIERIKEIAKPK  
LARATVRDPKTGVLTVASYRVSKSSWLEEDDPVVARVNRRMQHITGLTVKTAELLQVAN  
YGVGGQYEPHFDFSRNDRDTFKHLGTGNRVATFLNYMSDVEAGGATVFPDLGAAIWPCK  
GTAVFWYNLLRSGEGDYRTHAACPVLVGCKWVSNKWFHERGQEFLRPCGSTEVD

>sp|Q9BTU6|P4K2A\_HUMAN Phosphatidylinositol 4-kinase type 2-alpha OS=Homo sapiens  
GN=PI4K2A PE=1 SV=1

MDETSPLVSPERAQPPDYTFPSGSGAHFPQVPGGAVRVAAGSGSPPGSPGHDRERQP  
LLDRARGAAAQGTQTVAQAQALAAQAAAAHAQAHRERNEFPEDPEFEAVVRQAELA  
IERCIFPERIYQSSGSYFVKDPQGRIIAVFKPKNEEPYGHLPKWKWLQKLCCPCCFG  
RDCLVLNQGYLSEAGASLVDQKLELNIVPRTKVYYLASETFNYSIDRVKSRGKRLALEK

VPKVGQRFNRI GLPPKVG SFQLFVEGYKDADYWLRRFEAEPLPENTNRQLLLQFERLVVL  
DYIIRNTDRGNDNL IKYDCPMDSSSSRDTDWVVVKEPVIKVAIDNGLAFPLKHPDSWR  
AYPFYWAWLPQAKVPFSQEIKDLILPKISDPNFVKDLEEDLYELFKKDPGDFRGQFHKQI  
AVMRGQILNLTQALKDNKSPLHLVQMPPVIVETARSHQRSSSESYTQSFQSRKPPFSSWW

>sp|Q06416|P5F1B\_HUMAN Putative POU domain, class 5, transcription factor 1B OS=Homo sapiens GN=POU5F1B PE=5 SV=2

MAGHLASDFAFSPPPGGGGDGPWGAEPGWVDPLTWLSFQPPGGPGIGPGVGPSEVWGI  
PPCPPPYELCGMAYCGPQVGVLVPQGGLETSQPESEAGVGVESNSNGASPEPCTVPPG  
AVKLEKEKLEQNPEKSQDIKALQKELEQFAKLLKQKRITLGYTQADVGLILGVLFQKVF  
QKTICRFEALQLSFKNMCKLRPLLQKWVEEADNNENLQEICKAETLMQARKRKRTSIENR  
VRGNLENLFLQCPKPTLQISHIAQQLGLEKDVVVRVWFCNRRQKQKRSSSDYAQREDFEAA  
GSPFSGGPVSPFPAPGPHFGTPGYGSPHFTALYSSVPFPEGEVFPVSVITLGSPMHSN

>sp|Q8NBR0|P5I13\_HUMAN Tumor protein p53-inducible protein 13 OS=Homo sapiens GN=TP53I13 PE=2 SV=1

MAPPPSPQLLLAALARLLGPSEVMAGPAEEAGAHCPESLWPLPPQVSPRVITYTRVSPG  
QAEDVTFLYHPCAHPLWLKLQALLAYACMANPSLTPDFSLTQDRPLVLTAWGLALEMAWV  
EPAAWAHWMRRRRRQRKKKAWIYCESLSGPAPSEPTPGRGRLCRRGCVQALALAFALR  
SWRPPGTEVTSQGPQPSSSGAKRRRLRAALGPQPTRSALRFPSASPGSLKAKQSMAGIP  
GRESNAPSVPVTVSLLPGAPGGNASSRTEAQVPNGQGSPGGCVCSQASPAPRAAAPRAA  
RGPTPRTEEAWAAMALTFLVLTLATLCTRLHRNFRRGESYWGPTADSQDTVA AVLK  
RRLQPSRRVKRSRRRPLLPPTPD SGPEGESSE

>sp|Q8WXI9|P66B\_HUMAN Transcriptional repressor p66-beta OS=Homo sapiens GN=GATAD2B PE=1 SV=1

MDRMTEDALRLNLLKRS LDPADERDDVLAKRLKMEGHEAMERL KMLALLKRKDLANLEVP  
HELPTKQDGSVGKGYEEKLNGNLRPHGDNRTAGRPGKENINDEPVDMSARRSEPERGRLT  
PSPDIIVLS DNEASSPRSSSRMEERLKAANLEMFKGKIEERQQLIKQLRDELRL EEARL  
VLLKKLRQSQLQKENVVQKTPVVQNAASIVQPSPAHVGGQGLSKLPSRPGAQGV EPQNL  
TLQGHSVIRSATNTTLPHMLMSQRVIAPNPAQLQGQRPKPKGLVRTTTPNMNPAINYQP  
QSSSVPCQRTTSSAIYMN LASHIQPGTVNRVSSPLSPSAMTDAANSQAAAKLALRKQL  
EKTLL EIPPPKPPAPLLHFLPSAANSEFIYMGLEEVVQSVIDSQ GKSCASLLRVEPFVC  
AQCRDFTPHWKQEKNGKILCEQCMTSNQKKALKAEHTNRLKNAFVKALQQEQEIEQRLQ  
QQAALSPTTAPAVSSVSKQETIMRHHTLRQAPQPQSSLQRG IPTSARSMLS NFAQAPQLS  
VPGGLLGMPGVNIAYLNTGIGGHKGPSLADRQREYLLDMIPPR SISQSISGQK

>sp|O00459|P85B\_HUMAN Phosphatidylinositol 3-kinase regulatory subunit beta OS=Homo sapiens GN=PIK3R2 PE=1 SV=2

MAGPEGFYRALYPFRRERPEDELLPGDVLVVSRAALQALGVAEGGERCPQSVGWMPGL  
NERTRQRGDFPGTYVEFLGPVALARPGPRGRPLPARPRDGAPEPGLTLPDLPEQFSP  
PDVAPPLLVLKVEAIERTGLDSESHYRPELPAPRTDWSLSDVDQWDTAALADG IKSFLLA  
LPAPLVTPEASAEARRALREAAGPVGPALEPPTLPLHRLTLRFLQLHLGRVASRAPALG  
PAVRALGATFGPLLLRAPPPSSPPPGGAPDGSESPDFPALLVEKLLQEHLEE QEVAPP  
ALPPKPPKAKPASTVLANGGSPPSLQDAEWYWGDISREEVNEKL RDTPDGTFLVRDASSK  
IQGEYTLTLRKGNNKLIKVFHRDGHYGFSEPLTFCSVVDLINHYRHESLAQYNAKLDTR  
LLYPVSKYQQDQIVKEDSVEAVGAQLKVYHQQYQDKSREYDQLYEEYTRTSQELQMKRTA  
IEAFNETIKIFEEQGQTQEKCSKEYLERFRREGNEKEMQRILLNSERLKSRIAEIHESRT

KLEQQLRQAASDNREIDKRMNSLKPDLMLRKIRDQYLWLTQKGARQKKINEWLGIKNE  
TEDQYALMEDEDDLPHHEERTWYVGKINRTQAEEMLSGKRDGTFLIRESSQRGCYACSVV  
VDGDTKHCVIYRTATGFGFAEPYNLYGSLKELVLHYQHASLVQHNDALTVTLAHPVRAPG  
PGPPPAAR

>sp|Q9NZ20|PA2G3\_HUMAN Group 3 secretory phospholipase A2 OS=Homo sapiens GN=PLA2G3 PE=1  
SV=2

MGVQAGLFGMLGFLGVALGGSPALRWYRTSCHLTKAVPGNPLGYLSFLAKDAQGLALIHA  
RWDahrRLQSCSWEDEPELTAAYGALCAHETAWGSFIHTPGPELQRALATLQSQWEACRA  
LEESPAGARKKRAAGQSGVPGGGHQREKRGWTMPGTLWCGVGDSAGNSSELGVFQGPDL  
CREHDCRPQNISPLQYNYGIRNYRFHTISHCDCDTRFQQCLQNQHDSISDIVGVAFFNV  
EIPCFVLEEQAACVAYWWGGCRMYGTVPRLARLQPRTFYNASWSSRATSPTPSSRSAPP  
KPRQKQHLRKGGPHQKSGKRPSKANTTALQDPMVSPRLDVAPTGLQGPQGGLKPQGARWV  
CRSFRRLDQCEHQIGPREIEFQLLNSAQEPLFHCNCTRRLARFLRLHSPPEVTNMLWEL  
LGTTCFKLAPPLDCVEGKNCSDRPRAIRVSARHLRLQQRRLQLQDKGTDERQPWPSEPL  
RGPMsfYNQCLQLTQAARRPDRQQKSWSQ

>sp|P39877|PA2G5\_HUMAN Calcium-dependent phospholipase A2 OS=Homo sapiens GN=PLA2G5 PE=1  
SV=1

MKGLLPLAWFLACSVPAVQGGLLDLKSMIEKVTGKNALTNyGFYGCYCGWGGRGTPKDG  
DWCCWAHDHCYGRLEEKGCNIRTQSYKYRFAWGVVTCEPGPFCHVNLACDRKLVYCLKR  
NLRsYNPQYQYFPNILCS

>sp|Q8N543|OGFD1\_HUMAN Prolyl 3-hydroxylase OGFOD1 OS=Homo sapiens GN=OGFOD1 PE=1 SV=1

MNGKRAEPGPARGVKGKKEVMAEFSDAVTEETLKKQVAEAWSRRTPFsHEVIVMDMDP  
FLHCVIPNFIQSQDFLEGLQKELMNLDfHEKYNDLYKFQQSDDLKKRREPHISTLRKILF  
EDFRSWLSDISKIDLESTIDMSCAKYEFTDALLCHDDELEGRRIAFILYLVPWPDRSMGG  
TLDLYSIDEHFQPKQIVKSLIPSWNKLVFfEVSPVSFHQVSEVLSEEKSRLSISGWFHGP  
SLTRPPNYfEPPIPRSPHIPQDHEILYDWINPTYLDMDYQVQIQEEfEESSEILLKEFLK  
PEKFTKVCEALEHGHVWSSRGPPNKRfYEKAEEskLPEILKECMKLFrSEALFLLSNF  
TGLKLHFLAPSEEDeMNDKKEAETTDITEEGTSHSPPEPENnQMAISnNSQsNEQTDPE  
PEENETKKESSVPMcQGELRHwKTGHYTLIHdHsKAeFALDLILYCGCEGWEPEYGGfTS  
YIAKGEDEELLTVNPESnSLALVYRDRETLKFVKHINHRsLEQKKTfPNRTGFWDfSfIY  
YE

>sp|Q6N063|OGFD2\_HUMAN 2-oxoglutarate and iron-dependent oxygenase domain-containing  
protein 2 OS=Homo sapiens GN=OGFOD2 PE=2 SV=2

MATVGAPRHfCRCACfCTDNLyVARYGLHVRfRGEQQLRRDYGPILRSRGCVsAKDFQQL  
LAELEQeVERRQRLQqESAARKALIASsyHPARPEVYDSLQDAALAPeFLAVTEYSVSPD  
ADLKGLLQRLETVSEEKRIYRPVfTAPfCQALLEEHfEQSDMPKGRPNtMNNYGVLL  
HELGLDEPLMTPLRERfLQPLMALLYPDcGGGRLDShRAFvVKYAPQDLELGCHYDNaE  
LTlnVALGKVfTGgALYfGGLfQAptALTEPLEVEHVVGqGVlHRGGQLHGARPLGTGER  
WNLVVWLRASAVRnSLCPMcCREPDLVDEGfGdGfTREEPATVDVCALt

>sp|O15527|OGG1\_HUMAN N-glycosylase/DNA lyase OS=Homo sapiens GN=OGG1 PE=1 SV=2

MPARALLPRRMGHRTLASTPALWASIPcPRSELRLDLVLPsGQsFRWREqSPAHWsGVLA  
DQVWTLtQTEEQLHCTVYRGDKsQASRPtPDELEAVRKYfQLDVTLAQLYHHWGSVDShF  
QeVAQKfQGVRLLRQDPIeCLfSfICSSNNNIARITGMVERLCQAFGPRLIQLDDVtYHG  
FpSLQALAGPEVEAHLRKLGLGYRARYVSASARAILEEQGLAWLQQLRESSYEEAHKAL

CILPGVGTKVADCICLMALDKPQAVPVDVHMHIAQRDYSWHPTTSQAKGPSPQTNKELG  
NFFRSLWGPYAGWAQAVLFSADLRQSRHAQEPPAKRRKGSKGPEG

>sp|Q8WWZ8|OIT3\_HUMAN Oncoprotein-induced transcript 3 protein OS=Homo sapiens GN=OIT3  
PE=1 SV=2

MPPFLLLTCLFITGTSVSPVALDPCSAYISLNEPWRNTDHQLDESQGPPLCDNHVNGEWY  
HFTGMAGDAMPTFCIPENHCGTHAPVWLNGSHPLEGDGIVQRQACASFNGNCCLWNTTVE  
VKACPGGGYVYRLTKPSVCFHVYCGHFYDICDEDEDCHGSCSDTSECTCAPGTVLGPDRQTC  
FDENECEQNNGGCSEICVNLKNSYRCECGVGRVLRSDGKTCEDEVEGCHNNNGGCSSHCLG  
SEKGYQCECPRGLVLSNHTCQVPVLCKSNAIEVNIPRELVGLELFLTNTSCRGVSN  
THVNILFSLKTCGTVVDVNDKIVASNLVTGLPKQTPGSSGDFIIRTSKLLIPVTCEFP  
LYTISEGYVNLNSPLEIMSRNHGIFPFTLEIFKDNEFEOPYREALPTLKLRLDSLYFGI  
EPVVHVSGLLESLVESCFATPTSKIDEVLKYYLIRDGCVSDSVKQYTSRDHLAKHFQVPV  
FKFVGKDHKEVFLHCRVLVCGVLDERSRCAQGCHRRMRGAGGEDSAGLQGQTLTGGP  
IRIDWED

>sp|Q9NTK5|OLA1\_HUMAN Obg-like ATPase 1 OS=Homo sapiens GN=OLA1 PE=1 SV=2

MPPKKGGDGIKPPPIIGRFGTSLKIGIVGLPNVGKSTFFNVLNSQASAENFPFCTIDPN  
ESRPVPDERFDFLCQYHKPASKIPAFNLNVVDIAGLVKGAHNGQGLGNAFLSHISACDGI  
FHLTRAFEDDDITHVEGSVDPIRDIEIIEELQLKDEEMIGPIIDKLEKVAVRGGDKKLK  
PEYDIMCKVKSWVIDQKKPVRFYHDWNDKEIEVLNKHFLTSKPMVYLVNLSEKDYIRKK  
NKWLIIKIEWVDKYDPGALVIPFSGALELKLQELSAEERQKYLEANMTQSALPKIIKAGF  
AALQLEYFFTAGPDEVRAWTIRKGTAPQAAGKIHTDFEKGFI MAEVMKYEDFKEEGSEN  
AVKAAGKYRQQGRNYIVEDGDIIFFKFNTPPQPKKK

>sp|Q9H1P3|OSBL2\_HUMAN Oxysterol-binding protein-related protein 2 OS=Homo sapiens  
GN=OSBPL2 PE=1 SV=1

MNGEEFFDAVTGFDSDNSSGEFSEANQKVTGMIDLDTSKNNRIGKTGERPSQENGIQKH  
RTSLPAPMFSRSDFSVWTILKKCVGLELSKITMPIAFNEPLSFLQRITEYMEHVYLHRA  
SCQPQPLERMQSVAFAVASQWERTGKPFNPLGETYELIREDLGFRFISEQVSHHP  
PISAFHSEGLNHDFLFHGSIYPKLKFVGKSVEAEPRGTITLELLKHNEAYTWTNPTCCVH  
NVIIGKLWIEQYGTVEILNHRTHGKCVLHFKPCGLFGKELHKVEGHIQDKNKKKLFMIYG  
KWTECLWGIDPVSYESFKKQERRGDHLRKAKLDEDSGKADSDVADDVPVAQETVQVIPGS  
KLLWRINTRPPNSAQMYNFTSFTVSLNELETGMEKTLPTDCRLRPDIRGMENGNMDLAS  
QEKERLEEKQREARRERAKEEAQWTRWFYPGNNPYTGTDPWLYAGDYFERNFSDCPDIY

>sp|Q9BZF3|OSBL6\_HUMAN Oxysterol-binding protein-related protein 6 OS=Homo sapiens  
GN=OSBPL6 PE=1 SV=1

MSSDEKGISPAHKTSTPTHRASSSTSSQRDSRQSIHILERTASSSTEPVSRQLEPEP  
VPLSKEADSWIEIEGLKIGQTNVQKPKHEGFMLKKRWPLKGWHKRFFVLDNGMLKYSK  
APLDIQKGKVHGSIDVGLSVMSIKKKARRIDLDTTEHIIYHLKVKSQDWFDAVWSKLRRHR  
LYRQNEIVRSRDASFHIFPSTSTAESSPAANVSVMGKMQNSFPWQSPLPCSNLSPAT  
CTTGQSKVAAWLQDSEMDRCAEDLAHCQSNLVELSKLLQNLIELQRTQSAPNFTDMQAN  
CVDISKDKRVTRRWRTKSVSKDTKIQLQVPFSATMSPVRLHSSNPNLCAIDFQTPPSH  
LTDPLESSTDYTKLQEEFCLIAQKVHSLLSAFNSIAIEKEKLLQMVSEQDHSKGHSTQM  
ARLRQSLSQALNQNAELRSRLNRIHSESIICDQVVSNIIPSPDEAGEQIHVSLPLSQQV  
ANESRLSMSSESVSEFFDAQEVLLSASSSENEASDDESYISDVSDNISEDNTSVADNISRQ  
ILNGELTGGAFRNGRRACLPAPCPDTSNINLWNILRNNIGKDLKVSMPVELNEPLNTLQ

HLCEEMEYSELDDKASETDDPYERMVLVAAFVSGYCSTYFRAGSKPFNPVLGETYECIR  
EDKGFRFFSEQVSHPPISACHCESKNFVFWQDIRWKNKFWGKSMEILPVGTLNVMLPKY  
GDYVWNKVTTCIHNILSGRRWIEHYGEVTIRNTKSSVCICKLTFVKVNYWNSNMNEVQG  
VVIDQEGKAVYRLFGKWHEGLYCGVAPSACIWRPGSMPTNYELYYGTRFAIELNELDP  
VLKDLLPPTDARFRPDQRFLEEGNLEAAASEKQRVEELQRSRRRYMEENNLEHIPKFFKK  
VIDANQREAWVSNPTYWELRKDPGFSKVDSPVLW

>sp|Q9H4B0|OSGP2\_HUMAN Probable tRNA N6-adenosine threonylcarbamoyltransferase,  
mitochondrial OS=Homo sapiens GN=OSGEPL1 PE=2 SV=2

MLILTKTAGVFFKPSKRKVYEFRLRSFNHPGTLFLHKIVLGIETSCDDTAAAVVDETGNV  
LGEAIHSQTEVHLKTGGIVPPAAQQLHRENIQRIVQEALSASGVSPSDLSAIATTIKPGL  
ALSLGVLSFSLQLVQGLKKPFIPIHMEAHALTIRLTNKVEFPFLVLLISGGHCLLALV  
QGVSDFLLLGKSLDIAPGMDLKVARRLSL IKHPECSTMSGGKAIEHLAKQGNRFHFDIK  
PPLHHAKNCDFSFTGLQHVTDKIIMKKEKEEGIEKGQILSSAADIAATVQHTMACHLVKR  
THRAILFCKQRDLLPQNNAVLVASGGVASNFYIRRALEILT NATQCTLLCPPPRLCTDNG  
IMIAWNGIERLRAGLGILHDIEGIRYEPKCPLGVDISKEVGEASIKVPQLKMEI

>sp|Q3ZCN5|OTOGL\_HUMAN Otogelin-like protein OS=Homo sapiens GN=OTOGL PE=2 SV=5

MIPWSIFLLHVLFLSLQEYICASSILMGTSKNGFNENRQKRALLAAQFEATSPRYFFHDA  
INWGESKIKGSCPYECLNGAFCSKTGTCDQCIFQALGTRCQIIPNMGNGRDGICKTWGQY  
HFETFDGIYYYFPGNCSYIFAKDCGDLEPRYTVVHNSPKCLGSVYSCYRSISLFFSNQE  
EIRIYGHEIKNGISLTLPTIGQIFIEKLADYILVKTTFGFSLAWDGISGIYKLSEDH  
KGKSCGLCGNYNDIQSDDFIILQEDYTEDIAMFANSWSVQTPDDTKCVLTPSDFPNPCSS  
GMPAFEAIFFKCQILLQFPFLSCHEYIDPYLYIASCVNDLCKTDDDETYCRAATEYARAC  
SHAGYPIQDWRDDFPACTDKCDDSFVHRDCISCCPPTCTFEKQCLGSNLHCLDGCYCPDG  
LVMDNGTCISLENCPCGFHGLAYSVGSKIEQECTECVCVGGVWNCTEQDCPVQCSVVGDS  
HFTTFDGRHYSFIGMCQYILVKG TGDKFTITLQKAPCEQNLGLVCLQSITLILEDNFN  
QVTLGRGGQILTSPNQGFNLNGIVEIQTLSLFI LLKTTFGLKILFAIDGERIYIQLTSA  
WKRRTLGLCGTFNGNIRDDFLSPSGMIEGTPQLHANAWRVSSTCFAPVHPVVDPCNINQ  
QNIGYAAHCDVIHQELFAPCHIYISPLYYQLCRHDACKCGSSCLCNALAHYAYLCGQH  
VPIDFRTQISFCAVVCQKGMLYHHCSSFCLHSCISLSSPEQCSDDCAEGCNCPEGKFYED  
TLNFCVPIFHCRCYRGSVYQPGELIPTPSGLCQCSNGTVKCDLATPSAVHICPEGKEY  
FDCRFDPPELPAGGVNCETTANLAMNFTCTPSSPCISGCVCAPGMAEHRGKCYVPESCP  
CIWKDWEYLSGEVIATPCYTCVCRRGMFNCTYYPCPAVCTIYGDRHYYSFDGLEYDYISD  
CQVFLIKSADDSDISVIAQNKKCFDNDIVCSKSVLISVGDTEIYLNDTPYKQKQSGFFLE  
NKSTYQLWKAGYYIVVYFPEKDITILWDRKTTIHIKVG PQWKNKLSGLCGNFDKCTSN  
TTSNNLEVRNARVFGDSWALGQCESPDETIKPEAHQNKFPYAKKECSILYSDIFASCRN  
VIDVTSFAKNCHEDTCNCNLGGDCECLCTSIAAYAYKCCQEGISIHWRSSSTVCSLDCEYY  
NEGLGEGPYMLASYGQSGVLGANMTSRSVFCLPRSSVHTSLFFYFMITPGLFKEKVSSL  
ALVSLESAERPNIYFLYVHDNDTSLSELWEANS AFHRRATFFHHQGLWIPGYS AFELYSKK  
GFFIIFTDSSVKASYDDSEEFKHSSSFSIEETQAAPYRKMCEWRYEPCATPCFKTCSD  
PEALACKFLPPVEGCLPYCPKNMILDEVTLKCVYPRDCIPVIPTEPTLMPPAKPTVPITV  
FDMLTPTTGLECEPQKFDPVYDCSQYICLNMEWQLYNWSLNC PKDVEMPD CGFRGRPVQV  
NSDICCPEWECPCRCMSLSELSIITFDGNNAALYSMASYILVRIPGEIIVAHIEKCSMNQ  
NGNSLKKLAPSGRISGLCFKKLVNTPPIHKIIVNRLARKVEVDSIVVPLPFSSQELSIED  
SGSMYVITTPAGLI IKWSHLTGIIIDIHGFRFNLSSYTEGLCGICNEDPDDDLRMQNGTI

ITNMEDIGLFIESWEIEKSFEVTMRPVRNCTEHDCSQCIDLLNRRIFIPCHDKVSPEDF  
CEKMWINYTYFWNYECDALSAYVALCNKFDICIQWRTPDYCSLSCPEGKEYQPCVRPCEA  
RTCLNQWFYGHTSCLNLREDCVCKVGTILHRPHSAQCIPEKECACTDSEDQPRTAGIWN  
GGIDECTLYKLENGSIPIEPDCDEEPTVCERAEVVMGIIDKWTCSSKEVCGCDTTL  
CETSIPTCTNSQKLIVGHSPLSCCPQYKCECDPLKCPSISTPECREQFMIQVRQEEPCC  
FSPFCVCESTKPVPLCHDGEFLTVDLNSTHFCCPQYYCVCEPNLCPMPLLNAEDMNLV  
KENVSGQCCTWHCECNENLIMPTCEVGEFTAIDHNFQSDCGCIQYLCEKDDVCVFQEV  
SVLNPGQSMIKYLEEDFCYAIIECLEEKDNHTGFHTLNFNLTVNCSKKCDVHQVYTPSPSDY  
GCCGTCNVSCFKHMENTSVVYAVGSTWHYNCTTYECVKTDEGAILNYTMVCPFNET  
ECKMNEGIVKLYNEGCKICKREERICQKVI I KSVIRKQDCMSQSPINVASCDGKCP SAT  
IYNINIESHLRFCKCRENGVRNLSVPLYCSGNGTEIMYTLQEPIDCTCQWN

>sp|A6NHNO|OTOL1\_HUMAN Otolin-1 OS=Homo sapiens GN=OTOL1 PE=3 SV=1

MWMFSWLCAILLILAIAGMNTIAKTTPTHKFTKKSEEREMPKGLKPSSGPPPEEEETLFT  
EMAEMAEPITKPSALDSVFGTATLSPFENFTLDPADFFLNCCDCSPVPGQKGEPGETGQ  
PGPKGEAGNLGIPGPPGVVGPQGPRGYKGEKGLKGERGDQGVPGYGPKGPAQGEPPGPKGD  
KGNIGLGGVKGQKGSKGDTGCTGCKGKGDQAMGSPGLHGGPGAKGEKGEMGEKGEMGD  
KGCCGDSGERGGKGQKGEKGMKEKGSKGDSGMEGKSGRNGLPGAKGDPGIKGEKGELGP  
PGLLGPTGPKGDIGNKGVRGPTGKKGSRGFKGSKGELARVPRSAFSAGLSKPFPPPNIP  
KFEKILYNDQGNYSPTGKFNCIPGTIVFSYHITVRGRPARISLVAQNKQFKSRETL  
GQEIDQASLLVILKLSAGDQVWLEVSKDWNGVYVSAEDDSIFTGFLLYPEETSGISP

>sp|Q7RTM1|OTOP1\_HUMAN Otopetrin-1 OS=Homo sapiens GN=OTOP1 PE=2 SV=1

MLEGLGSPASPRAAASVAGSSGPAACSPSSAPRSPESPAPRRGGVRASVPQKLAEM  
LSSQYGLIVFVAGLLLLLAWAVHAAGVSKSDLLCFLTALMLLQLLWMLWYVGRSSAHRRL  
FRLKDTAGAGWLRGSITLFAVITVILGCLKIGYFIGFSECLSAEGVFPVTHSVHTLLQ  
VYFLWGHAKDIIQSFKTLERFGVIHSVFTNLLLWANGVLNESKHQLNEHKERLITLGFGN  
ITTVLDDHTPQCNTPTLCTAISHGIYYLYPFNIEYQILASTMLYVLWKNIGRKVD SHQ  
HQM QFKSDGVMVGAVLGLTVLAATIAVVVVYLIHIGRSKTKSESALIMFYLYAITLLML  
MGAAGLAGIRIYRIDEKSLDESKNPARKLSDLLVGTASGWLISWGSILAILCAEGHPR  
YTWYNLPYSILAIIVEKYIQNLFI FESIHREPEKLSEDIQTLRVVTVCNGMTPLASSCPK  
SGGVARDVAPQGKDMPPAANGNVCMRSHDKKEEKQEESWGGSPPVRLPRFLQGN AKR  
KVL RNIAAFLFCNLISLWIPPAFGCRPEYDNGLEEIVFGFEPWIIIVNLAMPFSIFYRMH  
AAASLFEVYCKI

>sp|Q01804|OTUD4\_HUMAN OTU domain-containing protein 4 OS=Homo sapiens GN=OTUD4 PE=1 SV=4

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HVEVRMACIHYLRENREKFEAFIEGSFEEYLKRLNPQEWVGVEISALSLMYRKDFIY  
REPNVSPSQVTENNPFKEVLLCFSNGNHYDIVPIKYKESSAMQSLLYELLYEKVFKTD  
VSKI VMELDTLEVAEDNSEISDSEDDSCSKTAAAAADVNGFKPLSGNEQLKNNGNSTS  
LPLSRKVLKSLNPAVYRNVEYEIWLKSKQAQQKRDYSIAAGLQYEVGDKCQVRLDHNGKF  
LNADVQGIHSENGPVLVEELGKKHTSKNLKAPPPESWNTVSGKKMKKPSTSGQNFHSDVD  
YRGPKNP SKPIKAPSALPPRLQHPSGVRQHAFSSHSSGSQSQKFSSEHKNL SRTPSQIIR  
KPDREVERDFDHTSRESNYFGLSPEERREKQAI EESRLLYEIQNRDEQAF PALSSSSVNQ  
SASQSSNPCVQRKSSHVGDRKGSRRRMDTEERKDKDSIHGHSQLDKRPEPSTLENITDDK  
YATVSSPSKSKKLECPSPAEQKPAEHVSLSNPAPLLVSPEVHLTPAVPSLPATVPAPWSE  
PTTFGPTGVPAPIPVLSVTQTLTTGPDSAVSQAHLTPSPVPVSIQAVNQPLMLPQTLSL

YQDPLYPGFPCNEKGDRAIVPPYSLCQTGEDLPKDKNILRFFFNLGVKAYSCPMWAPHSY  
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PQPEIGPPTFSSPLVIPPSQVSESHGQLSYQADLESETPGQLLHADYEESLSGKNMFPQP  
SFGPNPFLGPVPIAPPPFFHVWYGYPFQGF IENPVMRQNI VLP SDEKGELDL SLENLDLS  
KDCGSVSTVDEFPEARGEHVHSLPEASVSSKPDEGRTEQSSQTRKADTALASIPPVAEGK  
AHPPTQILNRERETVPVELEPKRTIQSLKEKTEKVKDPKTAADVSPGANSVDSRVQRPK  
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RDEGYQYHRNVRGRPFRRGDRRRSGMGDGHGQHT

>sp|Q96BN8|OTUL\_HUMAN Ubiquitin thioesterase otulin OS=Homo sapiens GN=OTULIN PE=1 SV=3

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EIEKEKELLIHERGASEPRLSVAPEMDIMDYCKKEWRGNTQKATCMKMGYEEVSQKFTSI  
RRVRGDNICALRATLFLQAMSQAVGLPPWLQDPELMLLPEKLI SKYNWIKQWKLGLKFDGK  
NEDLVDKIKESLTLLRKKWAGLAEMRTAEARQIACDELFTNEAEYSLEYAVKFLMLNRA  
IELYNDKEKGKEVPFFSVLLFARDTSNDPGQLLRNHLNQVGHGTGGLEQVEMFLLAYAVRH  
TIQVYRLSKYNTTEFITVYPTDPPKDWPVVTLIAEDDRHYNIPVRVCEETSL

>sp|Q5VU65|P210L\_HUMAN Nuclear pore membrane glycoprotein 210-like OS=Homo sapiens  
GN=NUP210L PE=2 SV=1

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REELSSKIRILKYSEAEYAPPIYIAEMEKEEKQGDVILVSGIRTGAADVVKVRIHEPFYKK  
VAAALIRLLVLENIFLIPSHDIYLLVGTYIKYQVAKMVQGRVTEVKFPLEHYILELQDHR  
VALNGSHSEKVAIILDDKTAMVTASQLGQTNLVFVHKNVHMRVSGLPNCTIYVVEPGFLG  
FTVQPGNRWSLEVGGQYVITVDVFDKSSTKVYISDNLRTYDFPKEYFEEQLTTVNGSYH  
IVKALKDGVVVINASLTSIIYQNKDIQPIKFLIKHQQEVKIYFPIMLTPKFLAFPHHPMG  
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LEVYDLCLAFLPATAHLRVSDIQELELDLIDKVEIDKTVLTVRVLGSSKRPFQNKYFR  
NMELKLQLASAIVTLTPMEQQDEYSENYILRATTIGQTTLVIAIAKDKMGRKYTSTPRHIE  
VFPPFRLLPEKMTLIPMNMVMSEGGPQPQSIVHFSISNQTAVVNRGQVTGKIVGTA  
VVHGTIQTVNEDTGKIVFSQDEVQIEVVQLRAVRILAAATRLITATKMPVYVMGVTSTQ  
TPFSFSNANPGLTFHWSMSKRDVLDLVPRHSEVFLQLPVEHNFAMVVHTKAAGRTSIKVT  
VHCNSSSGQFEGNLELSDEVQILVFEKLQLFYPECQPEQILMPINSQKLHTNREGAA  
FVSSRVLKCFPNSSVIEEDGEGLLKAGSIAGTAVLEVTSIEPFGVNQTTITGVQVAPVTY  
LRVSSQPKLYTAQGRTLAFPLGMSLTFTVQFYNSIGEFHTHTNTQLYLALNRDDLHIG  
PGKNKYTYMAQAVNRGLTLVGLWDRRHGPMADYIPVAVEHAIEPDTKLTFVGDIICFSTH  
LVSQHGEPIWMISANNILQTDIVTGVARSPGTAMIFHDIPGVVKTYREV VVNASSRL  
MLSIDLKTYLTNTLNSTVFKLFIITGRNGVNLKGFCTPNQALAITKVLLPATLMLCHVQF

SNTLLDIPASKVFQVHSDFSMEKGVYVCI IKVRPQSEELLQALSVADTSVYGWATLVSER  
SKNGMQRILIPFIPAFYINQSELVLSHKQDIGEIRVLGVDRVLRKLEVISSSPVLVVAGH  
SHSPLTPGLAIYSVRVNFSTFQQMASPVFINISCVLTSQSEAVVVRAMKDKLGADHCED  
SAILKRFTGSYQILLTLFAVLASTASIFLAYNAFLNKIQTVPVVYVPTLGTTPQPGFFNS  
TSSPPHFMSLQPPLAQSRQLQHWLWSIRH

>sp|P0DMB1|P23D2\_HUMAN Proline-rich protein 23D2 OS=Homo sapiens GN=PRR23D2 PE=3 SV=1  
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SYQSLELPQNQQDSGTEELMIVLEQGTEVRLSLEEVILILAPETVLQLTLENTVLVIVPE  
HVLRSDELGLQSPVQIQYIIPSVDDFSLEFHAQDGDIDMRRENVFSPAEEGKAAPLYQQ  
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LLCTSSLRPMPPSPSPGPGQVYHRVHHRPPSRARRCLFRK

>sp|P41231|P2RY2\_HUMAN P2Y purinoceptor 2 OS=Homo sapiens GN=P2RY2 PE=2 SV=4  
MAADLGPWNDTNGTWDGDELGYRCRFNEDFKYVLLPVSYGVVCPGLCLNAVALYIFLC  
RLKTNASTTYMFHLAVSDALYAASLPLLVYYYARGDHWPFSTVLCKLVRFYTNLYCS  
ILFLTCISVHRCGLVLRPLRSLRWGRARYARRVAGAVVVLVACQAPVLYFVTTSARGGR  
VTCHDTSAPELFSRFVAYSSVMLGLLFAVPFAVILVCYVLMARRLLKPAYGTSGGLPRAK  
RKSVRTIAVVLAVFALCFLPFHVTRTLYYSFRSLDLSCHTLNAINMAYKVRPLASANS  
LDPVLYFLAGQLRVFARDAKPPTGSPATPARRRLGLRRSDRTDMQRIEDVLGSSSEDSR  
RTESTPAGESENTKDIRL

>sp|Q9H3D4|P63\_HUMAN Tumor protein 63 OS=Homo sapiens GN=TP63 PE=1 SV=1  
MNFETSRCATLQYCPDYIQRVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVFQHIWD  
FLEQPICSVQPIDLNFVDEPSEDGATNKIEISMDCIRMQSDLSDPMPQYTNLGLLSNM  
DQQIQNGSSSTSPYNTDHAQNSVTAPSPYAQPSSTFDALSPSPAIPSNTDYPGPHSFDVS  
FQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVIRAMPVYKKAHVTEV  
VKRCPNHELSTREFNEGQIAPPSHLIRVEGNHAQYVEDPITGRQSVLPYEPQVGTEFT  
TVLYNFMCNSSCVGMNRRPILIIIVTLETRDGQVLGRRCFEARICACPGDRKADEDSIR  
KQQVSDSTKNGDGTKRPFRQNTHGIMQTSIKKRRSPDDELLYLPVRGRETYEMLLKIKES  
LELMQYLPQHTIETRYQQQQQQHLLQKQTSIQSPSSYGNSPPLNKMNSMNKLPVSVSQ  
LINPQQRNALTPPTIPDGMGANIPMMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPP  
PPYPTDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDLASLKIPEQFRHAIWKG  
ILDHRQLHEFSSPSHLLRTPSSASTVSVGSSETRGERVIDAVRFTLRQTISFPPRDEWND  
FNFDMDARRNKQQRKEEGE

>sp|Q86YP4|P66A\_HUMAN Transcriptional repressor p66-alpha OS=Homo sapiens GN=GATAD2A PE=1  
SV=1

MTEEACRTRSQKRALERDPTEDDVESKKIKMERGLLASDLNTDGMRVTPEPGAGPTQGL  
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TTVALKETSTEALMKSSPEERERMIKQKLEELRLEEAKLVLLKKLRQSQIQKEATAQKPT  
GSVGSTVTTTPPLVRGTQNIAGKPSLQTSSARMPGSVIPPLVRGGQQAASSKLGPQASS  
QVVMPLVRGAQQIHSIRQHSSTGPPPLLLAPRASVPSVQIQGQRIIQQGLIRVANVPNT  
SLLVNIPQPTPASLKGTTATSAQANSTPTSVASVVTSAESPASRQAAAKLALRKQLEKTL  
LEIPPPKPPAPEMNFLPSAANNEFIYLVGLEEVVQNLLLETQGRMSAATVLSREPYMCAQC  
KTDFTCRWREKSGAIMCENCMTTNQKKALKVEHTSRLKAAFVKALQQEQEIEQRLLQQG  
TAPAQAKAEPTAAPHVLKQVIKPRRKLAFRSGEARDWSNGAVLQASSQLSRGSATTPRG  
VLHTFSPSPKLQNSASATALVSRTGRHSERTVSAGKGSATSNWKKTPLSTGGTLAFVSPS



LAVHKSSSAVDRQREYLLDMIPPRSIPQSATWK

>sp|P47712|PA24A\_HUMAN Cytosolic phospholipase A2 OS=Homo sapiens GN=PLA2G4A PE=1 SV=2

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RHFNNIDINPVWNETFEFILDPNQENVLEITLMDANYVMDETLGTATFTVSSMKVGEKKEV  
PFIFNQVTEMVLEMSLEVCSCLDLRFSMALCDQEKTFRQQRKEHIRESMKKLLGPKNSEG  
LHSARDVPVVAAILGSGGGFRAMVGFSGVMKALYESGILDCATYVAGLSGSTWYMSTLYSH  
PDFPEKGPEEINEELMKNVSHNPLLLLTPQKVCRYVESLWKKSSGQPVTFDIFGMLIG  
ETLIHNRMNNTLSSSLKEKVNTAQCPPLFTCLHV KPDVSELMFADWVEFSPYEIGMAKYG  
TFMAPDLFGSKFFMGTVVKKYEENPLHFLMGVWGSAFSILFNRLGVSGSQSRGSTMEEE  
LENITTKHIVSNDSSDDESHEPKGTENEDAGSDYQSDNQASWIHRMIMALVSDSALFN  
TREGRAGKVHNFMLGNLNTSYPLSPLSDFATQDSFDDDELDAAVADPDEFERIYEPLDV  
KSKKIHVVDGLTFNLPPYLIILRPQRGVDLIISFDFSARPSDSSPPFKELLLAEKWAKMN  
KLFPFKIDPYVFDREGLKECYVFKPNPDMEKDCPTIIHFVLANINFRKYRAPGVPRETE  
EEKEIADFIDFDDPESPFSTFNFQYPNQAFKRLHDLMHFNTLNNIDVIKEAMVESIEYRR  
QNPSRCSVSLSNVEARRFFNKEFLSKPKA

>sp|Q96DU9|PABP5\_HUMAN Polyadenylate-binding protein 5 OS=Homo sapiens GN=PABPC5 PE=2  
SV=1

MGSGEPNPAGKKKKYLKAALYVGDLDPDVTEDMLYKKFRPAGPLRFTRICRDPVTRSP LG  
YGYVNRFPADA EAWALNTMNF DLINGKPFRLMWSQPDDR LRKSGVGNIFIKNL DKSIDNR  
ALFYLFSAFGNLSCKVVCDDNGSKGYAYVHFDSLAAANRAIWHMNGVRLNNRQVYVGRF  
KFPEERAAEVTRDRATFTNVFVKNI GDDIDDEKLKELFCEYGP TESVKVIRDASGKSKG  
FGFVRYETHEAAQKAVLDLHGKSIDGKVLVYGRAQKKIERLAELRRRFERLRLKEKSRPP  
GVPIYIKNLDETINDEKLKEEFSSFGSISRAKVMMEVGQKGFGVVCFSFEEATKAVDE  
MNGRIVGSKPLHVTLGQARRRC

>sp|Q96M98|PACRG\_HUMAN Parkin coregulated gene protein OS=Homo sapiens GN=PACRG PE=1 SV=2

MVAEKETLSLNKCPDKMPKRTKLLAQQLPVHQPHSLVSEGFTVKAMMKNSVVRGPPAAG  
AFKERPTKPTAFRKFYERGD FPIALEHDSKGNKIAWKVEIEKLDYHHYLP LFFDGLCEMT  
FPYEFFARQGIHDMLEHG GNKILPVLPLQIIP IKNALNLRNRQVICVTLKVLQHLV VSAE  
MVGKALVPYYRQILPVLNIFKNMNGSYSLPRLECSGAIMARC NL DHLGSSDPPTSASQVA  
EIIVNSGDGIDYSQQKRENIGDLI QETLEAFERYGGENAFINIKYVVPTYESCLLN

>sp|P41586|PACR\_HUMAN Pituitary adenylate cyclase-activating polypeptide type I receptor  
OS=Homo sapiens GN=ADCYAP1R1 PE=1 SV=1

MAGVVHVSLAALLLLP MAPAMHSDCIFKKEQAMCLEKIQRANELMGFNDSSPGCPGMWDN  
ITCWKPAHV GEMVLVSCPELFRIFNP DQVWETETIGESDFGDSNSLDLSDMGVVS RNCTE  
DGWSEFPFHYFDACGFDEYESETGDQDYYYLSVKALYTVGYSTSLVTLTTAMVILCRFRK  
LHCTRNF IHMNLVFSFMLRAISVF IKDWILYAEQDSNHCFISTVECKAVMVFFHYCVVSN  
YFWLFIEGLYLF TLLVETFFPERRYFYWTIIIGWGTPTVCVTVWATLRLYFDDTGCDWMN  
DSTALWWVIKGPVVG SIMVNFVLFIGIIVILVQKLQSPDMG GNESSIYLRLARSTLLLIP  
LFGIHYTVFAFSPENVSKRERLV FELGLGSFGFVAVLYCFLNGEVQAEIKRKWRSWKV  
NRYFAVDFKHRHPSLASSGVNGGTQLSILSKSSSQIRMSGLPADNLAT

>sp|Q86VP3|PACS2\_HUMAN Phosphofurin acidic cluster sorting protein 2 OS=Homo sapiens  
GN=PACS2 PE=1 SV=3

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SVVIAVKMQGSKRILRSHEIVLPPSGQVETDLALTFSLQYPHFLKREGNKLQIMLQRRKR

YKNRTILGYKTLAAGSISMAEVMQHPSEGGQVLSLCSSIKEAPVKAAEIWIASLSSQPID  
HEDSTMQAGPKAKSTDNYSEEEYESFSSEQEASDDAVQGQDLDEDDFDVGKPKKQRRSIV  
RTTSMTRQQNFQKQVALLRRFKVSDEVLDSEQDPAEHIPEAEEDLDLLYDTLMEHPSD  
SGPDMEDDDSVLSTPKPLRPYFEGLSHSSSQTEIGSIHSARSHKEPPSPADVPEKTRSL  
GGRQPSDSVSDTVALGVPGPREHPGQPEDSPEAEASTLDVFTERLPSSGRITKTESLVIP  
STRSEGKQAGRRGRSTSLKERQAARPQNERANSLDNERCPDARSQQLIPRKTVDQLNHI  
LISDDQLPENIILVNTSDWQGQFLSDVLQRHTLPVVCTCSPADVQAAFSTIVSRIQRYCN  
CNSQPPTPVKIAVAGAQHYLSAILRLFVEQLSHKTPDWLGYMRFLVIPLGSHPVARYLGS  
VDYRYNNFFQDLAWRDLFNKLEASAVQDTPDIVSRITQYIAGANCAHQLPVIAEAMLYK  
QKSPDEESSQKFIPFVGVKVGIVEPSSATSGDSDDAAPSGSGTSSSTPPSASPAAKEAS  
PTPSSPSVSGGLSSPSQGVGAELMGLQVDYWTAAQPADRKDAEKKDLPVTKNTLKCTF  
RSLQVSRLPSSGEAAATPTMSMTVVTKEKNKKVMFLPKKAKDKDVESKSCIEGISRLIC  
TARQQQNMLRVLIDGVECDVKFFQLAAQWSSHVKHFPICIFGHSKATF

>sp|Q9ULW8|PADI3\_HUMAN Protein-arginine deiminase type-3 OS=Homo sapiens GN=PADI3 PE=1  
SV=2

MSLQRIVRVSLHPTSAVCVAGVETLVDIYGSVPEGTEMFEVYGTGVDIYISPNMERGR  
ERADTRRWRFDATEIIVVMNSPSNDLNSHVQISYHSSHEPLPLAYAVLYLTCVDISLD  
CDLNCEGRQDRNFVDKRQWVGPSGYGGILLVNCDRDDPSCDVQDNCQHVHCLQDLEDM  
SVMVLRTQGPAALFDDHKLVLHTSSYDAKRAQVFHICGPEDVCEAYRHVLGQDKVSYEVP  
RLHGDEERFFVEGLSFPDAGFTGLISFHVTLDDSNEDFSASPIFTDTVFRVAPWIMTP  
STLPPLEVVYCRVRNNTCFVDAVAELARKAGCKLTICPQAENRNRWIQDEMELGYVQAP  
HKTLPVVFDSPRNGELQDFPYKRILGPDFGYVTREPRDRSVSGLDSFGNLEVSPPVVANG  
KEYPLGRILIGGNLPGSSGRRVTQVVRDFLHAQKVQPPVELFVDWLAVGHVDEFLSFVPA  
PDGKGFRMLLASPGACFKLFQEKQKCGHGRALLFQGVVDDEQVKTISINQVLSNKDLINY  
NKFVQSCIDWNREVLKRELGLAECIDIIPQLFKTERKKATAFFPDLVNMLVLGKHLGIP  
KPF GPIINGCCCLEEKVRSLLLEPLGLHCTFIDDFTPYHMLHGEVHCGTNCVCRKPFSEFKWW  
NMVP

>sp|Q9NQU5|PAK6\_HUMAN Serine/threonine-protein kinase PAK 6 OS=Homo sapiens GN=PAK6 PE=1  
SV=1

MFRKKKKKRPEISAPQNFQHRVHTSFDPKEGKFVGLPPQWQNILDTLRRPKPVVDPSRIT  
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GPAEFQGASQRCLQLGACLQSSPPGASPTGTNRHGMKAAKHGSEEARPQSCLVGSATGR  
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VCLAREKHSGRQVAVKMMDLRKQQRRELLFNEVVIMRDYQHFNVEMYKSYLVGEELWVL  
MEFLQGGAALTDIVSQVRLNEEQIATVCEAVLQALAYLHAQGVVHRDIKSDSILLTLDGRV  
KLSDFGFCAQISKDVPKRKSLVGTPYWMapevisrslYATEVDIWSLGIIMVIEMVDGEPP  
YFSDSPVQAMKRLRDSPPPCLKNSHKVSPVLRDFLERMLVRDPQERATAQELLDHPFLLQ  
TGLPECLVPLIQLYRKQTSTC

>sp|A0A075B759|PAL4E\_HUMAN Peptidyl-prolyl cis-trans isomerase A-like 4E OS=Homo sapiens  
GN=PPIAL4E PE=3 SV=1

MVNSVVF FEITRDGKPLGRISIKLFADKIPKTAENFRALSTGEKGFYKGCSCFHRIIPGF

MCQGGDFTRPNGTGDKSIYGEKFDDENLIRKHTGSGILSMANAGPNTNGSQFFICAAKTE  
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>sp|Q8IXS6|PALM2\_HUMAN Paralemmín-2 OS=Homo sapiens GN=PALM2 PE=1 SV=3

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TAEERARRRQSEEDFRVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKS  
FKDFQKGFSSDGAUYAMEINVEKDKQTGETKILSTSTIGPEGVHQGVKVYDDGTVVY  
EVRSGGTVVENGVHKLSTKDVEELIQKAGQSSLGGHVSERTVIADGSLSHPKHEMLCKE  
AKLEMVHKSRRKDHSSGNPGQQAQAPSAAGPEANLDQPVMTIFMGYQNIEDDEETKKVLGY  
DETIKAEVLIDEDDEKSLREKTVTDVSTIDGNAAELVSGRPVSDTTEPSSPEGKEESLA  
TEPAPGTQKKKRCQCCVVM

>sp|Q9NVE7|PANK4\_HUMAN Pantothenate kinase 4 OS=Homo sapiens GN=PANK4 PE=1 SV=1

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VRSFDHSGKDTEREHEPPYEISVQEEITARLHFIFKENTYIEACLDFIKDLVNTETKVI  
QATGGGAYKFKDLIEEKLRLKVDKEDVMTCLIKGCNFKLVNIPHEAFVYQKDSDEFRFQ  
TNHPHIFPYLLVNIGSGVSIKVVETEDRFWVGSSIGGGTFWGLGALLTKTKKFDELLH  
LASRGQHSNVDMLVRDVYGAHQTLGLSGNLIASSFGKSATADQEFKEDMAKSLHLMIS  
NDIGQLACLHARLHSLDRVYFGGFFIRGHPVTMRTITYSINFFSKGEVQALFLRHEGYLG  
AIGAFKGAEQDNPQYSWGNYAGSSGLMSASPELGPAQRARSGTFDLLEMDRLERPLV  
DLPLLLDPPSYVPDVTDLTDDALARKYWLTCFEEALDGVVKRAVASQPDSDAERAKEF  
RQKYWNKLQTLRQPFAYGTLTVRSLLDTREHCLNEFNFPDPYSKVKQRENGVALRCFPG  
VVRSLDALGWEERQLALVKLLAGNVFDWGAKAVSAVLESDPYFGFEEAKRKLQERPWL  
DSYSEWLQRLKGPHKCALIFADNSGIDIILGVFPFVRELLLRGTEVILACNSGPALNDV  
THSESLIVAERIAGMDFVVSALQEERLLLVQTGSSSPCLDLSRLDKGLAALVRERGADL  
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>sp|Q9BXP8|PAPP2\_HUMAN Pappalysin-2 OS=Homo sapiens GN=PAPP2 PE=1 SV=4

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ASPQHHLFGVYPSRAGNYLRYPYVGEQEIHTGRSKPDTEGNAVSLVPPDLTENPAGLRG  
AVEEPAAPWVGDSPIQGSELLGDDDAYLGNQRSKESLGEAGIQKGSAMAATTTAIFTTL  
NEPKPETQRRGWAKSRQRRQVWKRAEDGQGDGSISSHFPWPKHSLKHRVKKSPPEESN  
QNGGEGSYREAETFNSQVGLPILYFSGRRERLLLRPEVLAEIPREAFTEAWVKPEGGQN  
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GHLGTLVFWSTALPQSHFQHSQHSSGEEATDLVLTASFEPVNTWVPFRDEKYPRLEV  
LQGFEPPEPEILSPLQPPLCGQTVCDNVELISQNGYWPLRGEKVIRYQVVICDDEGLNP  
IVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGNDHCDPEC  
EHPLTG YDGGDCRLQGRCSWNRRDGLCHVECNMLNDFDDGDCDPQVADVRKTCFDPD  
SPKRAYMSVKELKEALQNSTHFLNIYFASSVREDLAGAATWPWDKDAVTHLGGIVLSPA  
YYGMPGHTDTMIHEVGHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCADTAPTPKS  
ELCREPEPTSDTCGFTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQQWTES  
RKPTPIPIPPMIGQTNKSLTIHWLPPISGVVYDRASGSLCGACTEDGTFRQYVHTASSR  
RVCDSSGYWTPPEAVGPPDVDQPCPSLQAWSPEVHLYHMNMVPCPTEGCSLELLFQHP  
VQADTLTLWVTSFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHVDGKVS  
GVKVYTFDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSHRKFTDVE  
VTPGQMYQYQVLAEGGELGEASPLNHIHGAPYCGDGKVSERLGEECDDGDLVSGDGCS

KVCELEEGFNCVGEPSLCYMYEGDGICEPFERKTSIVDCGIYTPKGYLDQWATRAYSSHE  
DKKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPCVASENETQDDRSEQEGSLKKE  
DEVWLKVCFNRPGEARAIFIFLTDTGLVPGEHQPTVTLYLTDVIRGSNHSGLGTYGLSCQH  
NPLIINVTHHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSNICISEDEGQNH  
QQQSCIHRPCGKQDSCPSLLLDHADVVNCTSIGPGLMKCAITCQRGFALQASSGQYIRPM  
QKEILLTCSSGHWDQNVSCLPVDGVPDPSLVNYANFSCSEGTFKLRCSISCVPPAKLQ  
GLSPWLTCLDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDVGTICKYECKPGY  
YVAESAEGKVRNKLKIQCLEGGIWEQGSCIPVVCEPPPPVFEGMYECTNGFSLDSQCVL  
NCNQEREKLPILCTKEGLWTQEFKLCENLQGECPPPPSELNSVEYKCEQGYGIGAVCSPL  
CVIPPSDPVMLPENITADTLEHWMPEVKVQSIVCTGRRQWHPDPVLVHCIQSCEPFQADG  
WCDTINNRAYCHYDGGCCSSTLSSKKVIPFAADCDDLECTCRDPKAEENQ

>sp|Q9BYG5|PAR6B\_HUMAN Partitioning defective 6 homolog beta OS=Homo sapiens GN=PAR6B  
PE=1 SV=1

MNRSHRHGAGSGCLGTMEVKSFKGAEFRFSLERSKPGKFEEFYGLLQHVHKIPNVDVLV  
GYADIHGDLPLINDDNYHKAVSTANPLLRIFIQKKEADYSAFGTDTLIKKNVLTNVL  
RPDNHRKKPHIVISMPQDFRPVSSIIDVDILPETHRRVRLYKYGTEKPLGFYIRDGSSVR  
VTPHGLEKVPGIFISRLVPGGLAQSTGLLAVNDEVLEVNGIEVSGKSLDQVTDMMIANSR  
NLIIITVRPANQRNNVVRNSRTSGSSGQSTDNSLLGYPQQIEPSFEPEDEDSEEDDIIIED  
NGVPQQIPKAVPNTESLESLTQIELSFESGQNGFIPSNEVSLAAIASSNTEFETHAPDQ  
KLLEEDGTIITL

>sp|Q99497|PARK7\_HUMAN Protein deglycase DJ-1 OS=Homo sapiens GN=PARK7 PE=1 SV=2

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSDVVICPDASLED  
AKKEGPDYVVVLPGGNLGAQNLSESAIVKEILKEQENRKGLIAAICAGPTALLAHEIGFG  
SKVTTHPLAKDKMMNGGHYTYSENVRKEDGLILTSRPGTSFEFALAIVEALNGKEVAAQ  
VKAPLVLKD

>sp|Q6UWY5|OLF1\_HUMAN Olfactomedin-like protein 1 OS=Homo sapiens GN=OLF1 PE=1 SV=2

MMVALRGASALLVFLAAFLPPPQCTQDPAMVHYIYQFRVLEQGLEKCTQATRAYIQEF  
QEFSKNISVMLGRCQTYTSEYKSAVGNLALRVERAQRIDYIYQLREADECTESEDKTLA  
EMLLQEAEEEEKIRTLNASCNDMLMGISLKVKKMMDTHGSMKDAVYNPKVYLLIG  
SRNNTVWEFANIRAFMEDNTKAPRKQILTLQGTGQVIYKGFLLFFHNQATSNEIIKYN  
LQKRTVEDRMLLPGGVGRALVYQHSPSTYIDLAVDEHGLWAIHSGPGTHSHLVLTKEPG  
TLGVEHSDWTPCRSQDAEASFLLCGVLYVVYSTGGQGPHRITCIYDPLGTISEEDLPNLF  
FPKRPRSHSMIHYNPRDKQLYAWNEGNQIIYKLQTKRKLPLK

>sp|Q8TAK6|OLIG1\_HUMAN Oligodendrocyte transcription factor 1 OS=Homo sapiens GN=OLIG1  
PE=1 SV=2

MYAVSQARVNAVPGTMLRPQRPGLQLGASLYELVGYRQPPSSSSSTSTSTSSST  
TAPLLPKAAREKPEAPEPPGPGPGSGAHPGGSARPDAAKEEQQLRRKINSRERKRMQD  
LNLAMDALREVILPYSAHCQGAPGRKLSKIATLLARNYILLGSSLQELRRALGEGAG  
PAAPRLLLAGLPLAAAPGSVLLAPGAVPPDALRPAKYLSLALDEPPCGQFALPGGGAG  
GPGLCTCAVCKFPHLVPASGLAAVQAQFSK

>sp|Q7RTU3|OLIG3\_HUMAN Oligodendrocyte transcription factor 3 OS=Homo sapiens GN=OLIG3  
PE=1 SV=2

MNSDSSSVSSRASSPDMEYLDRDHHRRHHHHQESRLNSVSSTQGDMMQKMPGESLSRAG  
AKAAGESSKYKIKKQLSEQDLQQLRLKINGRERKRMHDLNLAMDGLREVMPYAHGPSVRK

LSKIATLLLARNYILMLTSSLEEMKRLVGEIYGGHHSAFHCGTVGHSAGHPAHAANSVHP  
VHPILGGALSSGNASSPLSAASLPAIGTIRPPHSLKAPSTPPALQLGSGFQHWAGLPCP  
CTICQMPPPHLSALSTANMARLSAESKDLLK

>sp|P41143|OPRD\_HUMAN Delta-type opioid receptor OS=Homo sapiens GN=OPRD1 PE=1 SV=4  
MEPAPSAGAEQPPLFANASDAYPSACPSAGANASGPPGARSASSLALAIITALYSAVC  
AVGLLGNVLVMFGIVRYTKMTATNIYIFNLALADALATSTLPFQSAKYLMETWPFGELL  
CKAVLSIDYYNMFTSIFTLTMMSVDRYIAVCHPVKALDFRTPAKAKLINICIWVLASGVG  
VPIMMAVTRPRDGAVVCMQLQFSPSWYWDVTVKICVFLFAFVVPILIIITVCYGLMLLRL  
RSVRLLSGSKEKDRSLRRI TRMVLVVVGAFVVCWAPIHIFVIVWTLVDIDRRDPLVVAAL  
HLCIALGYANSSLPVLYAFLDENFKRCFRQLCRKPCGRPDPSFSRAREATARERVTAC  
TPSDGPGGGAAA

>sp|P08100|OPSD\_HUMAN Rhodopsin OS=Homo sapiens GN=RHO PE=1 SV=1  
MNGTEGPNFYVPFSNATGVVRSPFEYPQYYLAEPWQFSMLAAYMFLLIVLGFPINFLTLY  
VTVQHKKLRTPLNYILLNLAVADLFMVLGGFTSTLYTSLHGYFVFGPTGCNLEGFFATLG  
GEIALWSLVVLAIERVYVVCKPMNFRFGENHAIMGVAFTWVMALACAAPPLAGWSRYIP  
EGLQCSCGIDYYTLKPEVNNESFVIYMFVVHFTIPMIIIFFCYQQLVFTVKEAAQQQES  
ATTQKAEKEVTRMVIIMVIAFLICWVPYASVAFYIFTHQGSNFGPIFMTIPAFFAKSAAI  
YNPVIYIMMNKQFRNCMLTTICCGKNPLGDDEASATVSKTETSQVAPA

>sp|Q96CV9|OPTN\_HUMAN Optineurin OS=Homo sapiens GN=OPTN PE=1 SV=2  
MSHQPLSCLTEKEDSPSESTGNPPHLAHPNLDFTTPEELLQQMKELLTENHQLKEAMKL  
NNQAMKGRFEELSAWTEKQKEERQFFEIQSKEAKERLMALSHENEKLKEELGKLKGKSER  
SSEDPTDSDRLPRAEAEQEKDQLRTQVVRLQAEKADLLGIVSELQLKLNSSGSSEDSFVE  
IRMAEGEAEGSVKEIKHSPGPTRTVSTGTALSKYRSRSADGAKNYFEHEELTVSQLLLCL  
REGNQKVERLEVALKEAKERVSDFEKKTSNRSEIETQTEGSTEKENDEEKGPETVGSEVE  
ALNLQVTSLFKELQEHTKLSKAELMKKRLQEKQALERKNSAIPSELNEKQELVYTNKK  
LELQVESMLSEIKMEQAKTEDEKSKLTVLQMTHNKLQEHNNALKTIEELTRKESEKVDR  
AVLKELSEKLELAEKALASKQLQMDQEMKQTIKQEEDELETMTILRAQMEVYCSDFAERA  
AREKIHEEKEQLALQLAVLLKENDAFEDGGRQSLMEMQSRHGARTSDSDQQAYLVQRGAE  
DRDWRQQRNPIHSCPKCGEVLDPIDTLQIHVMDCII

>sp|P47887|OR1E2\_HUMAN Olfactory receptor 1E2 OS=Homo sapiens GN=OR1E2 PE=2 SV=2  
MMGQNQTSISDFLLGLPIQPEQQNLQYALFLAMYLTLLGNLLIIVLIRLDShLHTPVY  
LFLSNLSFSDLCFSSVTMPKLLQNMQNQDPSIPYADCLTQMYFFLYFSDLESFLLVAMAY  
DRYVAICFPMHYTAICFLLHYTAIMSPMLCLSVVALSWVLTFHAMLHTLLMARLCFCAD  
NVIPHFFCDMSALLKLACSDTRVNEWVIFIMGGLILVIPFLLILGSYARIVSSILKVPSS  
KGICKAFSTCGSHLSVSVLFYGTIVIGLYLCPANSSTLKDTVMAMMYTVVTPMLTPFIYS  
LRNRDMKGALERVICKRKNPFLL

>sp|Q8WZA6|OR1E3\_HUMAN Olfactory receptor 1E3 OS=Homo sapiens GN=OR1E3 PE=3 SV=2  
MMKKNQTMISEFLLGLPIQPEQQNLFYALFLAVYLTLLGNLLVIVLIRLDShLHMPMY  
LCLSNLSFSDLCFSSVTMPKLLQNMQSNPSIPFADCLAQMYFHLFYGVLESFLLVMAY  
HCYVAICFPLHYTTIMSPKCLGLLTLWLLTAHATLHTLLMARLSFCAENVIPHFFCD  
TSTLLKLACSNTQVNGWVMFFMGGLILVIPFLLIMSCARIVSTILRVPSTGGIQKAFST  
CGPHLSVSVSLFYGTIIIGLYLCPLTNHNTVKDTVMAMVYTGTHMLNPFIIYSLNRNDRMRGN  
PGQSLQHKENFFVFKIVIVGILPLLNLVGCVKLIMKYHSKSA

>sp|Q96R84|OR1F2\_HUMAN Putative olfactory receptor 1F2 OS=Homo sapiens GN=OR1F2P PE=5 SV=2

MERDKPVSSEFLLGLSRPQQQHLLFVFFLSMYLATVLGNLLIILAISIDSRHTPMY  
FFLSNMSFVDFNCSTVTPKMLANHLRTQTISFSGCLMQMYFISELADMDNFFLLAVMAYD  
RFVAVCRPLHYTAKMIHQCALLVTGWSVVANSNALLHTLLMARLSFCADNTIPHIFCDV  
TPLLKLSCSDTHLSEVMILTEAALVTITPFLCLLASYMHTCVVLRVPSTKGRWKAFSTC  
GSHLAVLLFYGTIMSPYFRTSSSSHAQRDIAAAVRFTVTPVMNPLIYSLRNKDIKGA  
VKVAVKFFSVQ

>sp|Q8NGS3|OR1J1\_HUMAN Olfactory receptor 1J1 OS=Homo sapiens GN=OR1J1 PE=2 SV=1

MSPENQSSVSEFLLGLPIRPEQQAVFFALFLGMYLTTVLGNLLIMLLIQLDHLHTPMY  
FFLSHLALTDISFSSVTPKMLNMNMQTHLAVFYKGCISQTYFFIFFADLDSFLITSMAY  
DRYVAICHPLHYATIMTQSQCVMLVAGSWVIACACALLHTLLLAQLSFCADHIIPHYFCD  
LGALLKLSCSDTSLNQLAIFTAALTAIMLPFLCILVSYGHIGVTILQIPSTKGICKALST  
CGSHLSVVTIYYRTIIGLYFLPPSSNTNDKNIIASVIYTAVTPMLNPFIIYSLRNKDIKGA  
LRKLLSRSGAVAHACNLNTLGG

>sp|Q8NGR3|OR1K1\_HUMAN Olfactory receptor 1K1 OS=Homo sapiens GN=OR1K1 PE=2 SV=1

MEANESSEGISFVLLGLTTPGQQRPFLVFLLLYVASLLGNGLIVAAIQASPALHAPM  
YFLLAHLSFADLCFASVTPKMLANLLAHDHSISLAGCLTQMYFFFALGVTDSCLLAAMA  
YDCYVAIRHPLPYATRMSRAMCAALVGMWLVSHVHSLLYILLMARLSFCASHQVPHFFC  
DHQPLRLSCSDTHHIQLLIFTEGAADVTPFLLILASYGAIAAAVLQLPSASGRRAVS  
TCGSHLAVVSLFYGTIVAVYFQATSRREAEGRVATVMYTVVTPMLNPIIYSLWNRDVQG  
ALRALLIGRRISASDS

>sp|Q8NGR2|OR1L6\_HUMAN Olfactory receptor 1L6 OS=Homo sapiens GN=OR1L6 PE=3 SV=2

MSYFYRLKLMKEAVLVKLPFTSLPLLQTLRKSMDMEIKNYSSSTSGFILLGLSSNPQL  
QKPLFAIFLIMYLLAAVGNVLIIPAIYSDPRLHTPMYFFLSNLSFMDICFTTVIVPKMLV  
NFLSETKVISYVGCLAQMYFFMAFGNTDSYLLASMAIDRLVAICNPLHYDVVMKPRHCLL  
MLLGSCSISHLHSLFRVLLMSRLSFCASHIIKHFFCDTQPVLKLSCSDTSSSQMVMTET  
LAVIVTPFLCIIFSILRIMVTVLRIPSAAGKWKAFSTCGSHLTAVAFYGSIIYVYFRPL  
SMYSVVRDRVATVMYTVVTPMLNPFIIYSLRNKDMKRGKKLQDRIYR

>sp|Q8NH92|OR1S1\_HUMAN Olfactory receptor 1S1 OS=Homo sapiens GN=OR1S1 PE=3 SV=2

MKTFSFLQIGRNMHQGNQTTITEFILLGFFKQDEHQNLFLVFLGMYLVTVIGNGLIIV  
AISLDTYLHTPMYFLANLSFADISSISNSVPKMLVNIQTKSQSISYESCITQMYFSIVF  
VVIDNLLGTMAYDHFVAICHPLNYTILMRPRFGILLTVISWFLSNIIALHTLLLIQLL  
FCNHNTLPHFFCDLAPLLKLSCSDTLINELVLFIVGLSVIIFPFTLSFFSYVCIIRAVLR  
VSSTQGWKAFSTCGSHLTAVLLFYGTIVGVYFFPSSTHPEDTKIGAVLFTVTPMINP  
FIYSLRNKDMKGALRKLINRKISSL

>sp|Q9GZK3|OR2B2\_HUMAN Olfactory receptor 2B2 OS=Homo sapiens GN=OR2B2 PE=2 SV=1

MNWVNSVSPQEFILLVFSDQPWLEIPPFVFMFLSYILTFGNLTIILVSHVDFKLHTPMY  
FFLSNLSLLDLCYTTSTVPQMLVNICNTRKVISYGGCVAQLFIFLALGSTECLLAVMCF  
DRFVAICRPLHYSIIMHQRCLFQLAAASWISGFSNSVLQSTWTLKMPLCGHKEVDHFFCE  
VPALLKLSCVDTTANEAEFFISVLFLLIPVTILISYAFIVQAVLRISAEQGRKAFGT  
CGSHLIVVSLFYGTAIMYQLPPSPSSKDRGKMVSLFCGIIAPMLNPLIYTLRNKEVKEA  
FKRLVAKSLLNQEIRNMQMISFAKDTVLTLYTNFSASCPFVITIENYCNLPQRKFP

>sp|Q8NGT1|OR2K2\_HUMAN Olfactory receptor 2K2 OS=Homo sapiens GN=OR2K2 PE=2 SV=2

MNITLYSFLYVLRNNEGSTGRNIDERKKMQGENFTIWSIFFLEGFSQYPGLEVLVLFVFS  
LVMYLTTLGNSTLILITILDSRLKTPMYLFLGNLSFMDICYTSASVPTLLVNLLSSQKT  
IIFSGCAVQMYLSLAMGSTECVLLAVMAYDRYVAICNPLRYSIIMNRCVCARMATVSWVT  
GCLTALLETSFALQIPLCGNLIDHFTCEILAVLKLACTSSLLMNTIMLVVSILLPIPML  
LVCISYIFILSTILRITSAEGRNKAFTSTCGAHLTVVILYYGAALSMYLPSSSNAQKIDK  
IISLLYGVLTPLMNPIIYSLRNKEVKDAMKKLLGKITLHQTHEHL

>sp|Q6IF00|OR2T2\_HUMAN Olfactory receptor 2T2 OS=Homo sapiens GN=OR2T2 PE=2 SV=1  
MGMEGLLQNSTNFVLTGLITHPAFPGLLFAIVFSIFVVAITANLVMILLIHMSRLHTPM  
YFLLSQLSIMDTIYICITVPKMLQDLLSKDKTISFLGCAVQIFLYLTIGGEFFLLGLMA  
YDRYVAVCNPLRYPLLMNRRVCLFMVVGSWVGSLDGFMLTPVTMSFPFCRSREINHFFC  
EIPAVLKLSCDTSLEYETLMYACCVLMLLIPLSVISVSYTHILLTVHRMNSAEGRRKAFA  
TCSSHIMVVSVFYGAIFYTNVLPHSYHTPEKDKVVSIFYTILTPMLNPLIYSLRNKDVA  
ALRKVLGRCGSSQSIRVATVIRKG

>sp|Q96R30|OR2V2\_HUMAN Olfactory receptor 2V2 OS=Homo sapiens GN=OR2V2 PE=3 SV=3  
METWVNQSYTDGFFLLGIFSHSTADLVLFVSVMAVFTVALCGNVLLIFLIYMDPHLHTPM  
YFFLSQLSLMDLMLVCTNVPKMAANFLSGRKSISFVGCGIQIGLFVCLVGSEGLLLGLMA  
YDRYVAISHPLHYPLILMNQRVCLQITGSSWAFGIIDGLIQMVVMNFPYCGLRKVNHHFFC  
EMLSLKLACVDTSLEKVIACCVMFLFPFSIIVASYAHILGTVLQMNSAQAWKKALA  
TCSSHLTAVTLFYGAAMFIYLRPRHYRAPSHDKVASIFYTVLTPMLNPLIYSLRNREVMG  
ALRKGLDRCRIGSQH

>sp|Q7Z3T1|OR2W3\_HUMAN Olfactory receptor 2W3 OS=Homo sapiens GN=OR2W3 PE=2 SV=2  
MDGTNGSTQTHFILLGFSRPHLERILFVVILIAYLTLVGNTTIIILVSRLDPHLHTPMY  
FFLAHLSFLDLSFTTSSIPQLLYNLNGCDKTISYMGCAIQFLFLGLGGVECLLLAVMAY  
DRCVAICKPLHYMVIMNPRLCRGLVSVTWGCGVANSLAMSPVTLRLPRCGHHEVDHFLRE  
MPALIRMACVSTVAIEGTVFVLAVGVVLSPLVFILLSYSYIVRAVLQIRSASGRQKAFGT  
CGSHLTVVSIFYGNI IYMYMQGASSSQDQGMFLMLFYNIVTPLLNPLIYTLRNREVKGA  
LGRLLLGKRELKGE

>sp|Q8NHA6|OR2W6\_HUMAN Putative olfactory receptor 2W6 OS=Homo sapiens GN=OR2W6P PE=5  
SV=1  
MGFYHVGQAAFELLTSSFILVGFSRPHLELIVFVVVLIIFYLLTLLGNMTIVLLSALDSR  
LHTPMYFFLANLSFLDMCFTTGSIPQMLYNLWGPDKTISYVGCAIQLYFVLALGGVECVL  
LAVMAYDRYAAVCKPLHYTIIMHPRLCGQLASVAWLSGFGNSLIMAPQTLMLPRCGHRRV  
DHFLCEMPALIGMACVDMMLEALAFALAIFIILAPLILILISYGYVGGTVLRIKSAAGR  
KKAFNTCSSHLLIVSLFYGTIIYMYLQPANTYSQDQGKFLTFYTIIVTPSVNPLIYTLRN  
KDVKEAMKKVLGKGSAEI

>sp|Q8NH83|OR4A5\_HUMAN Olfactory receptor 4A5 OS=Homo sapiens GN=OR4A5 PE=3 SV=4  
MRQNNNITEFVLLGFSQDPGVQKALFVMFLTYLVTVGNLLIVVDIIASPSLGSPMYFF  
LACLSFIDAAYSTTISPKLIVGLFCDKKTISFQGCMGQLFIDHFFGGAEVFLLVMACDR  
YVAICKPLHYLTIMNRQVCFLLLVAMIGGFVHSAFQIVVYSLPFCGPNVIVHFSCDMHP  
LLEACTDTYFIGLTVVVNSGAICMVFNLLLISYGVILSSLKTYSQEKRGKALSTCSSG  
STVVVLFVPCIFIYVRPVSNFPTDKFMTVFYTIITHMLSPLIYTLRNSEMRNAIEKLLG  
KKLTIFIIGGVSVLM

>sp|Q8NGF8|OR4B1\_HUMAN Olfactory receptor 4B1 OS=Homo sapiens GN=OR4B1 PE=3 SV=1  
MASTSNVTELI FTGLFQDPAVQSVCFVFLPVYLATVVGNGLIVLTVSISKSLDSPMYFF

LSCLSLVEISYSSTIAPKFIIDLLAKIKTISLEGCLTQIFFFHFFGVAEILLIVVMAYDC  
YVAICKPLHYMNIISRQLCHLLVAGSWLGGFCHSIIQILVIIQLPFCGPNVIDHYFCDLQ  
PLFKLACTDTFMEGVIVLANSGLFSVFSFLILVSSYIVILVNLNRHSAEGRHKALSTCAS  
HITVVILFFGPAIFLYMRPSSFTEDKLAVFYTVITPMLNPIIYTLRNAEVKIAIRRLW  
SKKENPGRE

>sp|Q8NH72|OR4C6\_HUMAN Olfactory receptor 4C6 OS=Homo sapiens GN=OR4C6 PE=2 SV=1  
MENQNNVTEFILLGLTENLELWKIFSAVFLVMYVATVLENLLIVVTIITSQSLRSPMYFF  
LTFLSLLDVMFSSVAPKVIDTLISKSTTISLKGCLTQLFVEHFFGGVGIIILLTMAYDR  
YVAICKPLHYTIIMSPRVCCLMVGGAWVGGFMHAMIQLLFMYQIPFCGPNIIDHFICDLF  
QLLTACTDTHILGLLVTLNSGMMCAIFLILIASYTVILCSLSYSSKGRHKALSTCSS  
HLTVVVLFFVPCIFLYMRPVVTHPIDKAMAVSDSIITPMLNPIIYTLRNAEVKSAMKKLW  
MKWEALAGK

>sp|Q96R67|OR4CC\_HUMAN Olfactory receptor 4C12 OS=Homo sapiens GN=OR4C12 PE=2 SV=2  
MEKKKNVTEFILGLTQNPIMEKVTFVFLVLYMITLSGNLLIVVTITTSQALSSPMYFF  
LTHLSLIDTVYSSSSAPKLIVDSFQEKKIISFNGCMAQAYAEHIFGATEIILLTMACDC  
YVAICKPLNYTTIMSHSLCILLVAVAWVGGFLHATIQILFTVWLPFCGPNVIGHFMCPLY  
PLLKLCIDTHTLGLFVAVNSGFICLLNFLILVVSYVILRSLKNSLEGRCKALSTCIS  
HIIVVVLFFVPCIFVYLRSVTTLPIDKAVAVFYTMVVPMLNPVYTLRNAEVKSAIRKLW  
RKKVTSND

>sp|Q8NGL9|OR4CG\_HUMAN Olfactory receptor 4C16 OS=Homo sapiens GN=OR4C16 PE=3 SV=2  
MQLNNVTEFILLGLTQDPFWKKIVFVIFLRLYLGTLLGNLLIISVKTSQALKNPMFFF  
LFYLSLSDTCLSTSITPRMIVDALLKKTTSFSECMIQVFSSHVFGCLEIFILILTAVDR  
YVDICKPLHYMTIISQWVCGVLMVAWVGSCVHSLVQIFLALSPLFCGPNVINHCFCDLQ  
PLLKQACSETYVVNLLLVSNSGAICAVSYVMLIFSIVIFLHSLRNHSAEVIKKALSTCVS  
HIIVVILFFGPCIFMYTCLATVPMDKMIAVFYTVGTSLNPVIYTLKNTEVKSAMRKLW  
SKKLITDDKR

>sp|Q8NGN0|OR4D5\_HUMAN Olfactory receptor 4D5 OS=Homo sapiens GN=OR4D5 PE=2 SV=1  
MNPANHSQVAGFVLLGLSQVWELRFVFFTVFSVYFMTVVGNNLLIVVIVTSDPHLHTMY  
FLLGNLSFLDFCYSSITAPRMLVDLLSGNPTISFSGCLTQLFFFHFIGGIKIFLLTMAY  
DRYIAISQPLHYTLIMNQTVCALLMAASWVGFIHSIVQIALTIQLPFCGPDKLDNFYCD  
VPQLIKLACTDTFVLELLMVSNNGLVTLMCFLVLLGSYTALLVMLRSHSREGRSKALSTC  
ASHIAVVTLIFVPCIVYTRPFRTPMDKAVSVLYTIVTPMLNPAIYTLRNKEVIMAMKK  
LWRRKKDPIGPLEHRPLH

>sp|Q8NGE8|OR4D9\_HUMAN Olfactory receptor 4D9 OS=Homo sapiens GN=OR4D9 PE=3 SV=3  
MDQRNYTRVKEFTFLGITQSRELSQVLFTFLFLVYMTTLMGNFLIMVTVTCESHLHTPMY  
FLLRNLSILDICFSSITAPKVLIDLLSETKTISFSGCVTQMFFFHLLGGADVFSLSVMAF  
DRYIAISKPLHYMTIMSRGCTGLIVASWVGGFVHSIAQISLLLPLPFCGPNVLDTFYCD  
VPQVLKACTDTFTLELLMISNGLVSWVFFFLISYTVILMMLRSHTGEGRRKAISTC  
TSHITVVTLHFVPCIVYARPTALPTDTAISVTFTVISPLLNPIIYTLRNQEMKLAMRK  
LKRRLGQSERILIQ

>sp|Q6IEY1|OR4F3\_HUMAN Olfactory receptor 4F3/4F16/4F29 OS=Homo sapiens GN=OR4F3 PE=2  
SV=1  
MDGENHSVVSEFLFLGLTHSWEIQLLLLVFSSVLYVASITGNILIVFSVTTDPHLHSPMY  
FLLASLSFIDLGACSVTSPKMIYDLFRKRKVISFGGCIQIFFIHVVGGMVLLIAMAF



DRYVALCKPLHYLTIMSPRMCLSFLAVAWTLGVSHSLFQLAFLVNLAFCGPNVLDSFYCD  
LPRLRLACTDTYRLQFMVTVNSGFICVGTFFILLISYVFILFTVWKHSSGGSSKALSTL  
SAHSTVLLFFGPPMFVYTRPHPSQMDKFLAIFDAVLT PFLNPVYTFRNKEMKAAIKR  
VCKQLVIYKRIS

>sp|Q8NGB9|OR4F6\_HUMAN Olfactory receptor 4F6 OS=Homo sapiens GN=OR4F6 PE=2 SV=1  
MDEANHSVVSEFVFLGLSDSRKIQLLLFLFFSVFYVSSLMGNLLIVLTVTSDPRLQSPMY  
FLLANLSIINLVFCSSTAPKMIYDLFRKHKTISFGGCVVQIFFIHAVGGTEMVLLIAMAF  
DRYVAICKPLHYLTIMNPQRCLFLVISWIIGIIHSVIQLAFVVDLLFCGPNELDSFFCD  
LPRFIKLACIETYTLGFMVTANSGFISLASFLILIIISYIFILVTVQKKSSGGIFKAFSML  
SAHVIVVVLVFGPLIFFYIFPFPTSHLDKFLAIFDAVITPVLNPVIYTFRNKEMMVAMRR  
RCSQFVNYSKIF

>sp|Q8IXE1|OR4N5\_HUMAN Olfactory receptor 4N5 OS=Homo sapiens GN=OR4N5 PE=3 SV=1  
METQNLTVVTEFILLGLTQSQDAQLLVFVLVLIIFYLIILPGNFLIIFTIKSDPGLTAPLY  
FFLGNLALLDASYSFIVVPRMLVDLSEKKVISYRSCITQLFFLHFLGAGEMFLLVMAF  
DRYIAICRPLHYSTIMNPRACYALSLVLWGGFIHSIVQVALILHLPFCGPNQLDNFFCD  
VPQVIKLACTNTFVVELLMVSNSSLGSLLCFLGLLASYAVILCRIREHSSEGKSKAISTC  
TTHIIIFLMFGPAIFIYTCPFQAFPADKVVSFLFHTVIFPLMNPVIYTLRNQEVKASMRK  
LLSQHMF

>sp|POC623|OR4Q2\_HUMAN Olfactory receptor 4Q2 OS=Homo sapiens GN=OR4Q2 PE=3 SV=1  
MDKNQTEVMREFFLSGFSQTPSIEAGLFVLFLFFYMSIWWGNVLIMVTVASDKYLNSSPM  
YFLLGNLSFLDLCYSTVTTPKLLADFFNHEKLISYDQCIVQLFFLHFGAAEMFLLTVMA  
YDRYVAICRPLHYTTVMRGLCCVLVAASWGGFVHSTVQTILTVHLPFCGPNQVENFFC  
DVPPVIKLACADTFVIELLMVSNGLISTISFVVLISYTTILVKIRSKERRKALSTCA  
SHLMVVTLFFGPCIFIYARPFSTFSVDKMVSVLYNVITPMLNPLIYTLRNKEVKSAMQKL  
WVRNGLTWKKQET

>sp|Q8NH05|OR4Q3\_HUMAN Olfactory receptor 4Q3 OS=Homo sapiens GN=OR4Q3 PE=3 SV=1  
MKKEQDSNVTEFVLLGLSSSWELQLFLFLFFYIAIVLGNLLIVTVQAHALLQSPM  
YYFLGHLSFIDLCLSCVTVPKMLGDFLQQGKSISFSGCLAQIYFLHFLGASEMFLLTVMA  
YDRYVAICNPLRYLTVMNPQLCLWLVLACWCGGFIHSIMQVILVIQLPFCGPNELDNFYC  
DVPQVIKLACMDTYVVEVLVIANSGLLSLVCFLVLLFSYAILITLRTHFCQGQNKVFST  
CASHLTVVSLIFVPCVFIYLRPFCSFSVDKIFSLFYTVITPMLNPLIYTLRNTDMKTAMK  
KLRIKPCGIPLPC

>sp|Q8NH49|OR4X1\_HUMAN Olfactory receptor 4X1 OS=Homo sapiens GN=OR4X1 PE=3 SV=1  
MVATNNVTEIIFVGFSQNWSEQRVISVMFLLMYTAVVLGNLIVVTILASKVLTSPMYFF  
LSYLSFVEICYCSVMAPKLIFDSFIKRKVISLKGCLTQMFSLHFFGGTEAFLLMVMAYDR  
YVAICKPLHYMAIMNQRMCGLLVRIAWGGGLLSVGQTFLIFQLPFCGPNIMDHYFCDVH  
PVLELACADTFFISLLIITNGGSISVVSFFVLMASYLIIHLFLRSHNLEGQHKALSTCAS  
HVTVDLFFIPCSLVYIRPCVTLPADKIVAVFYTVVTPLNPVIYSFRNAEVKNAMRRFI  
GGKVI

>sp|Q8NGJ0|OR5A1\_HUMAN Olfactory receptor 5A1 OS=Homo sapiens GN=OR5A1 PE=2 SV=1  
MSITKAWNSSVTMIFILLGFTDHPQLALLFVTFLGIYLTTLAWNLAFLIRGDTHLHT  
PMYFSLNSLFDICYSSAVAPNMLTDFFWEQKTISFVGCAAQFFFFVGMGLSECLLLTA  
MAYDRYAAISSPLLYPTIMTQGLCTRMVVGAYVGGFLSSLIQASSIFRLHFCGPNIIHF  
FCDLPPVLALSCSDTFLSQVNVFLVVVTVGGSFLQLLISYGYIVSAVLKIPSAEGRWKA

CNTCASHLMVVTLLFGTALFVYLRPSSSYLLGRDKVVSVFYSLVIPMLNPLIYSLRNKEI  
KDALWKVLERKKVFS

>sp|Q8NH85|OR5R1\_HUMAN Olfactory receptor 5R1 OS=Homo sapiens GN=OR5R1 PE=3 SV=1  
MAEVNIIYVTVFILKGITNRPELQAPCFGVFLVIYLVTVLGNLGLITLIKIDTRLHTPMY  
YFLSHLAFVDLCYSSAITPKMMVNFVVERNTIPFHACATQLGCFLTFMITECFLLASMAY  
DCYVAICSPLHYSTLMSRRVCIQLVAVPYIYSFLVALFHTVITFRLTYCGPNLINHFYCD  
DLPFLALSCSDTHMKEILIFAFAGFDMISSSSIVLTSYIFIIAAILRIRSTQGQHKAI  
CGSHMVTVTIFYGTLIFMYLQPKSNHSLDTDKMASVFYTVVIPMLNPLIYSLRNKEVKDA  
SKKALDKGCENLQILTFLKIRKLY

>sp|Q8NGG3|OR5T3\_HUMAN Olfactory receptor 5T3 OS=Homo sapiens GN=OR5T3 PE=3 SV=3  
MDSTFTGYNLNLQVKTEMDKLSSGLDIYRNPLKNKTEVTMFILTGFTDDFELQVFLFLL  
FFAIYLFTLIGNLGLVVLVIEDSWLHNPMMYYFLSVLSFLDACYSTVTPKMLVNFLAKNK  
SISFIGCATQMLLFVTFGTTECFLLAAMAYDHYVAIYNPLLYSVSMSPRVYVPLITASVY  
AGILHATHIVATFSLSFCGSNEIRHVFCDMPPLLAISCSDTHTNQLLLFYFVGSIEIVT  
ILIVLISCDFILLSILKMHSAGRQKAFSTCGSHLTGVTIYHGTILVSYMRPSSSYASDH  
DIIVSIFYTIVIPKLNPIIYSLRNKEVKKAVKKMLKLKY

>sp|Q8NGY5|OR6N1\_HUMAN Olfactory receptor 6N1 OS=Homo sapiens GN=OR6N1 PE=3 SV=1  
MDTGNWSQVAEFIILGPHLQGVQIYLFLLLLLIYLMTVLGNLLIFLVCLDSRLHTPMY  
HFVSILSFSELGYTAATIPKMLANLLSEKKTISFSGCLLQIYFFHSLGATECYLLTAMAY  
DRYLAICRPLHYPTLMTPTLCAEIAIGCWLGGLAGPVVEISLISRLPFCGPNRIQHVFCD  
FPPVLSLACTDTSINVLVDFVINSCKILATFLLILCSYVQIICTVLRIPSAAGKRKAIST  
CASHFTVVLIFYGSILSMYVQLKKSYSLDYDQALAVVYSVLTPLNPFIIYSLRNKEIKEA  
VRRQLKRIGILA

>sp|Q8NGQ2|OR6Q1\_HUMAN Olfactory receptor 6Q1 OS=Homo sapiens GN=OR6Q1 PE=2 SV=2  
MQPYTKNWTQVTEFVMMGFAGIHEAHLFFILFLTMYLFTLVENLAIILVVGLDHLRRP  
MYFFLTHLSCLEIWYTSVTPVKMLAGFIGVDGGKNISYADCLSQLFIFTLGATECFLLA  
AMAYDRYVAICMPLHYGAFVSWGTCIRLAAACWLVGFLTPILPIYLLSQLTFYGPVNDH  
FSCDASPLLALSCSDVTWKETVDFLVSLAVLLASSMVIASVYGNIVWTLHIRSAAERWK  
AFSTCAAHLTVVSLFYGTLLFFMYVQTKVTSSINFNKVVSVFYSVVTPLNPLIYSLRNKE  
VKGALGRVFSLNFWKGQ

>sp|Q8N148|OR6V1\_HUMAN Olfactory receptor 6V1 OS=Homo sapiens GN=OR6V1 PE=2 SV=1  
MANLSQPSEFVLLGFSSFGELQALLYGPFLMLYLLAFMGNTIIIVMVIADTHLHTPMYFF  
LGNFSLLEILVTMTAVPRMLSDLLVPHKVITFTGCMVQFYFHFSLGSTSFLILTMALDR  
FVAICHPLRYGTLMSRAMCVQLAGAAWAAPFLAMVPTVLSRAHLDYCHGDVINHFFCDNE  
PLLQLSCSDTRLLEFWDFLMALTFVLSSFLVTLISYGYIVTTVLRIPSASSCQKAFSTCG  
SHLTLVFIGYSSTIFLYVRPGKAHSVQVRKVVALVTSVLTPLNPFILTFCNQTVKTVLQ  
GQMQRLLKGLCKAQ

>sp|Q8NGX8|OR6Y1\_HUMAN Olfactory receptor 6Y1 OS=Homo sapiens GN=OR6Y1 PE=3 SV=1  
MTTIILEVNDHTVTTRFILLGFPTPAFQLLFFSIFLATYLLTLENLLIILAIHSDGQL  
HKPMYFFLSHLSFLEMWYVTVISPKMLVDFLSHDKSISFNGCMTQLYFFVTFVCTEYILL  
AIMAFDRYVAICNPLRYPVIMTNQLCGTLAGGCWFCGLMTAMIKMVFAQLHYCGMPQIN  
HYFCDISPLLNVSCEDASQAEMVDFFLALMVIAIPLCVVVASAAILATILRIPSAQGRQ  
KAFSTCASHLTVVILFYSMTLFTYARPKLMYAYNSNKVSVLYTVIVPLLNPIIYCLRNH  
EVKAALRKTIHCRGSGPQGNGAFSS

>sp|Q96RA2|OR7D2\_HUMAN Olfactory receptor 7D2 OS=Homo sapiens GN=OR7D2 PE=2 SV=2  
MEAGNQTFLEFILLGLSEDPQLPFIFGLFLSMYLVTVLGNLLIILAISSDSHLHTPMY  
FFLSNLSWVDICFSTCIVPKMLVNIQTENKAISYMDCLTQVYFSMFFPILDTLLLTVMAY  
DRFVAVCHPLHYMIIMPHLCGLLVFVTWLIGVMTSLLHISLMMHLIFCKDFEIPHFFCE  
LTYILQLACSDTFLNSTLIYFMTGVLGVFPLLGIIFSYSRIASSIRKMSSSGGKQKALST  
CGSHLSVVSFLFYGTGIGVHFTSAVTHSSQKISVASVMYTVVTPMLNPFYISLRNKDVKGA  
LGSLLSRAASCL

>sp|PODMU2|OR83P\_HUMAN Putative olfactory receptor 8G3 pseudogene OS=Homo sapiens  
GN=OR8G3P PE=5 SV=1  
MDPGNHSSVTESILAGLSEQPELQLRLFLFLGICVTVVGNLGMITLIGLSSHLHTPMY  
YFLSSLSFIDFCHSTVITPKMLVNFATEKNIIISYPECMAQLYLSIFAIAECHMLAAMAY  
DCYVAICSPLLYNVIMSYHHCFWLTVGVYILGILGSTIHTSFMLRLFLCKTNVINHYFCD  
LFPLLGLSCSSTYINELLVLVLSAFNILMPALTILASYIFIASILRIHSTEGRSKAFST  
CSSHILAVAVFFGSAAFMYLQPSVSSMDQRKVSSVFYTTIVPMLNPLIYSLRNKDVKLA  
VKKILHQATC

>sp|Q8NGM9|OR8D4\_HUMAN Olfactory receptor 8D4 OS=Homo sapiens GN=OR8D4 PE=2 SV=1  
MGVKNHSTVTEFLLSGLTEQAEQLPLFCLFLGIYTVTVGNLSMISIRLNRLHTPMY  
YFLSSLSFLDFCYSSVITPKMLSGFLCRDRSISYSGCMIQLFFFCVCVISECYMLAAMAC  
DRYVAICSPLLYRVIMSPRVCSLLVAAVFSVGFTDAVIHGGCILRLSFCGSNIIKHYFCD  
IVPLIKLSCSSTYIDELLIFVIGGFNMVATSLTIIISYAFILTSILRIHSSKKGRCKAFST  
CSSHLTAVLMFYGSLMSMYLKPASSSSLTQEKVSSVFYTTIVILMLNPLIYSLRNNEVRNA  
LMKLLRRKISLSPG

>sp|POC7N1|OR8U8\_HUMAN Olfactory receptor 8U8 OS=Homo sapiens GN=OR8U8 PE=3 SV=1  
MAHINCTQATEFILVGLTDHQELKMPFLVFLSIYLFVTVGNLGLILLIRADTSLNTPMY  
FFLSNLAFVDFCYSSVITPKMLGNFLYKQNVISFDACATQLGCFLTFMVSESLLLASMAY  
DRYVAICNPLLYMVMTPGICIQLVAVPYSYSFLMALFHTILTFRLSYCHSNIVNHFYCD  
DMPLRLRLTCSDFTRFKQLWILACAGITFICSVLIVFVSYMFIIFAILRMSSAEGRRKAFST  
CSSHMLAVTIFYGTILFMYLQPSSSHSLDADKMASVFYTVIIPMLNPLIYSLRNKDVKDA  
LKKVIIINRNHAFIFLKLRLK

>sp|O43612|OREX\_HUMAN Orexin OS=Homo sapiens GN=HCRT PE=1 SV=1  
MNLPSHKVSWAAVTLLLLLLLLPPALLSSGAAAQPLPDCCRQKTCSCRLYELLHGAGNHA  
AGILTLGKRRSGPGLQGRLLQASGNHAAGILTMGRRAGAEPAPRPCLGRCSAPAA  
ASVAPGGQSGI

>sp|Q9BXI2|ORNT2\_HUMAN Mitochondrial ornithine transporter 2 OS=Homo sapiens GN=SLC25A2  
PE=1 SV=3  
MKSGPGIQAAIDLTAGAAGGTACVLTGQPFDTIKVKMQTFPDLYKGLTDCFLKTYAQVGL  
RGFYKGTGPALMAYVAENSVLFMCYGFCCQFVRKVAGMDKQAKLSDLQTAAAGSFASAF  
ALALCPTLVKRLQTMEMEMSGKIAKSHNTIWSVVGKILKKDGPLGFYHGLSSTLLQE  
VPGYFFFFGGYELSRSFASGRSKDELGPVHLMLSGGVAGICLWLVPVDCIKSRIQVL  
SMYKGQAGFIGTLLSVVRNEGIVALYSGLKATMIRAIPANGALFVAYEYSRKMMLKQLEA  
Y

>sp|Q9Y3B8|ORN\_HUMAN Oligoribonuclease, mitochondrial OS=Homo sapiens GN=REX02 PE=1 SV=3  
MLGGSLSRLLRGVGGSHGRFGARGVREGGAAMAAGESMAQRMVVDLEMTGLDIEKDQI  
IEMACLTDSDLNLAEGPNLIIKQPDELLDSMSDWCKEHHGKSGLTKAVKESTITLQQA

EYEFLSFVRQQTPPGLCPLAGNSVHEDKKFLDKYMPQFMKHLHYRIIDVSTVKELCRRWY  
PEEYEFAPKKAASHRALDDISESIKELQFYRNNIFKKKIDKKRKIIENGENEKTVS

>sp|Q9BXB4|OSB11\_HUMAN Oxysterol-binding protein-related protein 11 OS=Homo sapiens  
GN=OSBPL11 PE=1 SV=2

MQGGEPVSTMKVSESEGLEQATAVTPNKNSSCGGGISSSSSSRGGSAKGWQYSDHMEN  
VYGYLMKYTNLVTGWQYRFFVLNNEAGLLEYFVNEQSRNQKPRGTLQLAGAVISPSDEDS  
HTFTVNAASGEQYKLRTADAKERQHWVSRLQICTQHHTTEAIGKNNPPLKSRSFSLASSN  
SPISQRRPSQNAISFFNVGHSLQSLSKRTNLPPDHLVEVREMMSHAEGQQRDLIRRIEC  
LPTSGHLSSLDQDLLMLKATSMATMNCLNDCFILQLQHASHQKGSPLSGTTIEWLEPKI  
SLSNHYKNGADQPFATDQSKPVAVPEEQPVAESGLLAREPEEINADDEIEDTCDHKEDDL  
GAVEEQRSVILHLLSQLKLGMDLTRVVLPTFILEKRSLLEMYADFMSPDLFIAITNGAT  
AEDRMIRFVEYYLTSFHEGRKGAIKKPYNPIIGETFHCSWKMPKSEVASSVFSSSSTQG  
VTNHAPLSGESLTQVGSDCYTVRFVAEQVSHPPVSGFYAECTERKMCVNAHVWTKSKFL  
GMSIGVTMVGEGILSLEHGEEYTFSLPCAYARSILTVPWVELGGKVSVNCAKTGYSASI  
TFHTKPFYGGKLHRVTAEVKHNTNTVVCVQGEWNSVLEFTYSNGETKYVDLTKLAVTK  
KRVRPLEKQDPFESRRLWKNVTDLSRESEIDKATEHKHTLEERQRTEERHRTETGTPWKT  
KYFIKEGDGWVYHKPLWKIIPTTQPAE

>sp|Q9H4L5|OSBL3\_HUMAN Oxysterol-binding protein-related protein 3 OS=Homo sapiens  
GN=OSBPL3 PE=1 SV=1

MMSDEKNLGVSQKLVSPTSSTSSCSSKQGSRQDSWEVVEGLRGEMNYTQEPVQKGFLLK  
KRKWPLKGWHKRFYLDKGILKYAKSQTDIEREKLHGCIDVGLSVMSVKSSKCIDLDTE  
EHIYHLKVKSEEVFDEWVSKLRHHRMYRQNEIAMFPHEVNHFFSGSTITDSSSGVFDSIS  
SRKRSSISKQNLFTGSGNSVSCGGETRVPLWLQSSSEMEKCSKDLAHCHAYLVEMSQLL  
QSMQDLHRTYSAPAINAIQGGSFESPKKEKRSHRRWRSRAIGKDAKGTQLQVPKPFSGPVR  
LHSSNPNLSTLDFGEEKNYSDGSETSEFSKMQEDLCHIAHKVYFTLRSFNMISAEREK  
LKQLMEQDASSPSAQVIGLKNALSSALAQNTDLKERLRIHAESLLDSPAVALSGDNL  
AEENSRDENRALVHQLSNESRLSITDSLSEFFDAQEVLLSPSSSENEISDDDSYVSDISD  
NLSLDNLSNDLDNERQTLGPVLDSGREAKSRRRTCLPAPCPSSSNISLWNILRNNIGKDL  
SKVAMPVELNEPLNTLQRLCEELEYSELLDKAAQIPSPLERMVYVAAFAISAYASSYYRA  
GSKPFNPVLGETYECIREDKGFQFFSEQVSHPPISACHAESRNFVFWQDVRWKNKFWGK  
SMEIVPIGTHTVTLPVFGDHFENKVTSCIHNILSGQRWIEHYGEIVIKNLHDDSCYCKV  
NFIKAKYWSTNAHEIEGTVFDRSGKAVHRLFGKWHESIYCGGGSSACVWRANPMPKGYE  
QYYSFTQFALELNEMDPSSKSLPPTDTRFRPDQRFLEEGNLEEAEIQKQRIEQLQRERR  
RVLEENHVEHQPRFFRKSDDDSWVSNGTYLELRKDLGFSKLDHPVLW

>sp|Q9H0X9|OSBL5\_HUMAN Oxysterol-binding protein-related protein 5 OS=Homo sapiens  
GN=OSBPL5 PE=1 SV=1

MKEEAFLLLLRFLCPSSTPQKVDPRKLTRNLLSGDNELYPLSPGKMEPNGPSLPRDE  
GPPTPSSATKVPPAEYRLCNGSDKECVSPTARVTKKETLKAQKENYRQEKKRATRQLLSA  
LTDPSVIMADSLKIRGTLKSWTKLWCVLKPGVLLIYKTPKVQWVGTVLLHCCELIERP  
SKKDGFCFKLFHPLDQSVWAVKGPKGESVGSITQPLPSSYLIFRAASESDGRCWLDLEL  
ALRCSSLLRLGTCKPGRDGEPGTSPDASPSSLCGLPASATVHPDQDLFPLNGSSLEND  
AFSDKSERENPEESDTETQDHSRKTESGSDQSETPGAPVRRGTTYVEQVQEELGELGEASQV  
ETVSEENKSLMWTLKQLRPGMDLSRVVLPTFVLEPRSFNLKLSDYHHHADLLSRAAVEE  
DAYSRMKLVLRWYLSGFYKKPKGIKKPYNPIIGETFRCWFHPQTDSRTFYIAEQVSHHP

PVSAFHVSNRKDGFCSITAKSRFYGNSLSALLDGKATLTFLNRAEDYTLTMPYAHCK  
GILYGMTLELGGKVITIECAKNNFQAQLEFKLPFFGGSTSINQISGKITSGEEVLASLS  
GHWDRDVFKEEGSGSSALFWTPSGEVRRQRLRQHTVPLEEQTELESERLWQHVTRAISK  
GDQHRATQEKFALEEAQRQRARERQESLMPWKPQLFHLDPITQEWYRYEDHSPWDPLKD  
IAQFEQDQILRTLQQEAVARQTTFLGSPGPRHERSGPDQRLRKASDQPSGHSQATESSGS  
TPESCELSDEEQDQDFVPGGESPCPRCRKEARRLQALHEAILSIREAQQELHRHLSAML  
SSTARAAQAPTGLLQSPRSWFLLCVFLACQLFINHILK

>sp|Q969R2|OSBP2\_HUMAN Oxysterol-binding protein 2 OS=Homo sapiens GN=OSBP2 PE=1 SV=2

MGKAAAPSRGGGCGGRSRLSSSLFTVVPCLSCHTAAPGMSASTSGSGPEPKPQPVPPEP  
ERGPLESEQVSEAVSEAVPRSEPVSETTSEPEPGAGQPSELLQGSRPGESSSGVGAGPFT  
KAASEPLSRAVGSATFLRPESGSLPALKPLLLRPGQAKTPLGVPMSTGTTSSAPLALL  
PLDSFEGWLLKWTNYLKGYYRWFVLGNGLLSYYRNQGEAHTCRGTINLSTAHIDTEDS  
CGILLTSGARSYHLKASSEVDQWITALELAKAKAVRMNTHSDDSGDDDEATPADKS  
ELHHTLKNLSKLDDSLTCNDLIAKHGAALQRSLTELDGLKIPSESGEKLKVNERATLF  
RITSNAMINACRDFLELAEIHSRKWQRALQYEQEQRVHLEETIEQLAKQHNSLERAFHSA  
PGRPANPSKSFIEGSLTPKGEDSEEDTEYFDAMEDSTSFITVITEAKEDSRKAEGST  
GTSSVDWSSADNVLDGASLVPGSSKVKRRVRIPNKNYSLNLWSIMKNCIGRELSRIPM  
PVNFNEPLSMLQRLTEDLEYHLLDKAVHCTSSVEQMCLVAAFSVSSYSTTVHRIAKPFN  
PMLGETFELDRDDMGLRSLCEQVSHHPPSAAHYVFSKHGWSLWQEITISSKFRGKYISI  
MPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTNDRCQLKFLPY  
SYFSKEAARKVTGVVSDSQGAHYVLSGSWDEQMECSKVMHSSPSSSDGKQKTVYQTL  
SAKLLWKYPLPENAENMYFSELALTLNEHEEGVAPTD SRLRPDQRLMEKGRWDEANTE  
KQRLQKQRLSRRRRLEACGPGSSCSSEEEKEADAYTPLWFEKRLDPLTGEMACVYKGGY  
WEAKEKQDWHMCPNIF

>sp|Q9Y236|OSGI2\_HUMAN Oxidative stress-induced growth inhibitor 2 OS=Homo sapiens  
GN=OSGIN2 PE=2 SV=1

MPLVEETSLEDSSVTFPVVIIGNGPSGICLSYMLSGYRPYLSSEAIHPNTILNSKLEEA  
RHLSIVDQDLEYLSEGLEGRSSNPVAVLFDTLHPDADFGYDYPVLHWKLEQHHPYIPHV  
VLGKGPPGGAWHNMEGSMILTISFGSWMELPGLKFKDWVSSKRRSLKGDVRMPPEIARYYK  
HYVKVMGLQKNFRENTYITSVSRLYRDQDDDDIQDRDISTKHLQIEKSNFIKRNWEIRGY  
QRIADGSHVPFCLFAENVALATGTLDSPAHLIEGEDFPFVFHSMPEFGAAINKGKLRGK  
VDPVLIVGSLTAADAVLCAYNSNIPVIHVFRRRVTDPSLIFKQLPKKLYPEYHKVYHMM  
CTQSYSVDSNLLSDYTSFPEHRVLSFKSDMKCVLQSVSGLKKIFKLSAAVVLIGSHPNLS  
FLKDQGCYLGHKSSQPITCKGNPVEIDTYTYECIKANL FALGPLVGDNFVRFLKGGALG  
VTRCLATRQKKKHLFVERGGGDGIA

>sp|P00480|OTC\_HUMAN Ornithine carbamoyltransferase, mitochondrial OS=Homo sapiens GN=OTC  
PE=1 SV=3

MLFNLRIILLNNAAFRNHNFMRNFRCGQLQNKVQLKGRDLLTLKNFTGEEIKYMLWLS  
ADLKFRKQKGEYPLLLQGKSLGMIFEKRSTRRLSTETGFALLGGHPCFLTQDIHLGV  
NESLTDARVLSMADAVLARVYKQSDLDLTAKEASIP IINGLSDLYHPIQILADYLTQ  
EHYSSLKGLTSLWIGDGNNILHSIMMSAAKFGMHLQAATPKGYEPDASVTKLAEQYAKEN  
GTKLLL TNDPLEAAHGGNVLITDTWISMGQEEKKRLQAFQGYQVTMTAKVAASDWTF  
LHCLPRKPEEVDDEVFYSRSLVFPEAENRKWTIMAVMVSLLTDYSPQLQKPKF

>sp|Q6ZR10|OTOG\_HUMAN Otogelin OS=Homo sapiens GN=OTOG PE=1 SV=3

MGVLASALCWLLCVWLPWGEQAAESLRVQRLGERVVDSGRSGARGMRNVKGMRNQPAQTR  
VSSSSSHQEATLAMGDKATVVGGQQAEAPDSVAMSSWERRLHRAKCAPSYLFSFNGGEC  
VHPAFCDCCRNFNATGPRCQMVYNAGPERDSICRAWGQHHVETFDGLYYYLSGKGSYTLVG  
RHEPEGQSFSIQVHNDPQCQSSPYTCSRAVSLFFVGEQEIHLAKEVTHGGMRVQLPHVMG  
SARLQQLAGYVIVRHQSAFTLAWDGASAVYIKMSPELLGWITHGLCGNNADPKDDLVTSS  
GKLTDDVVEFVHSWQEQAPNQPPGPTTSSLPRPPCLQQNPGMTQGVYEQCEALLRPPFDA  
CHAYVSPLPTASCTSDLCQSMGDVATWCRALAEYARACAQAGRPLQGWRTQLRQCTVHC  
KEKAFTYNECIACCPASCHPRASCVDSEIACVDGCYCPNGLIFEDGGCVAPAECPCFEHG  
TLYPPGSVVKEDCNTCTCTSGKWECS TAVCPAEC SVTGD IHFTTFDGRRYTFPATCQYIL  
AKSRSSGTFTVTLQNA PCGLNQDGACVQSVSVILHQDPRRQVTLTQAGDVLLFDQYKIIP  
PYTDDAFEIRRLSSVFLRVRTNVGVRVLYDREGLRLYLQVDQRWVEDTVGLCGTFNGNTQ  
DDFLSPVGVPESTPQLFGNSWKTLSACSPLVSGSPLDPCDVHLQAASYSVQACSVLTGEM  
FAPCSAFLSPVPYFEQRRDACRCGQPCLCATLAHYAHL CRRHGLPVDFRARLPACALSC  
EASKEYSPCVAPCGRTCQDLASPEACGV DGGDDLSRDECEGCACPPD TYLDTQADLCVP  
RNQCSCHFQGVDPYPPGSDIPSLGHCHCKDGMSCDSRAPAAACPAQV FVNCSDLHTDL  
ELSRERTCEQQLNLSVSARGPCLSGCACPQGLLRHGDACFLPEEC PCTWKGKEYFPGDQ  
VMSPCHTCVCQRGSFQCTLHPCASTCTAYGDRHYRTFDGLPFDFVGACKVHLVKSTSDVS  
FSVIVENVNCYSSGMICRKFISINVGNSLIVFDDDSGNPSPE SFLDDKQEVHTWRVGFFT  
LVHFPQEHITLLWDQRTTVHVQAGPQWQGQLAGLCGNFDLKTINEMRTPENLELTNPQEF  
GSSWAAVECPD TLDPDMCVLNPLREPF AKKECSILLSEVFEICHPVVDVTFWYSNCLTD  
TCGCSQGGDCECFCASVSAYAHQCCQHGVAVDWRT PRLCPYDCDFFNKVLGKGPYQLSSL  
AAGGALVGMKAVGDDIVLVRTEDVAPADIVSFL LTAALYKAKAHPD VVSLEAADRPNFF  
LHVTANGSLELAKWQGRDTFQQHASFLLHRGTRQAGLVAESLAKPSSFLYVSGAVLALR  
LYEHTEVFRRGTLFRLLDAKPSGAAYPICEWRYDACASPCFQT CRDPRAASCRDVPRVEG  
CVPVCPTPQVLDEVTQRCVYLEDCVEPAVWVPTEALGNETLPPSQGLPTPSDEEPQLSQE  
SPRTPTHRPA LTPAAPLTALNPPVTATEEPVVS PGPTQTTLQQPLELTASQLPAGPTES  
PASKGVTASLLAIPHTESSSLPVALQTPTPGMVSGAMETTRVTVIFAGSPNITVSSRSP  
PAPRFPLMTKAVTVRGHGLPVRTTPPQPSLTASPSRPVASPGAISRPTSSGSHKAVL  
TPAVTKVISRTGVPQTQAQSASSPSTPLTVAGTAAEQVPVSPLATRSLEIVLSTEKGEA  
GHSQPMGSPASPQPHPLPSAPPRPAQH TT MATRSPALPPETPAAASLSTATDGLAATPFM  
SLESTRPSQLLSGLPPDTS LPLAKVGTSAPVATPGPKASVIT TPLQPQATTLPAQTLSPV  
LPFTPAAMTQAHPPTHIAPPAAGTAPGLLLGATLPTSGVLPVAEGTASMVSVVPRKSTTG  
KVAILSKQVSLPTSMYGSAEGGPTELTPATSHPLTPLVAEPEGAQAGTALPVPTS YALSR  
VSARTAPQDSMLVLLPQLAEAHGTSAGPHLAAEPVDEATTEPSGRSAPALSIVEGLAEAL  
ATTTEANTSTTCVPIAEQDCVRHICLEGQLIRVNQSQHCPQGAAPPRCGILGLAVRVGGD  
RCCPLWECACRCSIFPDL SFVTFDGS HVALFKEAIYILSQSPDEMLTVHVL DCKSANLGH  
LNWPPFCLVMLNMTHLAHQVTIDRFNRKVTVDLQP VWPVVSRYGFRIEDTGHMYMILTPS  
DIQIQWLHSSGLMIVEASKTSKAQGHGLCGICDGAANDLTLKDGSVVGAEDPAPFLDS  
WQVPSSLTSVGQTRFRPDSCATTD CSPCLRMVSNRTFSACHRFVPPESFCELWIRDTKYV  
QQPCVALTVVYAMCHKHFVCI EWRRSDYCPFLCSSDSTYQACVTACEPPKTCQDGILGPL  
DPEHCQVLGEGVCVSEGTILHRRHSALCIPEAKCACTDSMGVPRALGETWNSSLSGCCQH  
QQCAPDTIVPVDLGCPSPRPESCLRFGEVALLLP TKDPCCLGTVVCNQTLCEGLAPTCR  
PGHRL LTHFQEDSCCPSYSCECDPDLCEAELVPSCRQDQILITGRLGDSCTSYFCACGD  
CPDSIPECQEGEALTVHRNTTELCCPLYQCVCENFRCPQVQCGLGTALVEVWSPDRCCPY

KSCECDCDTIPVPRCHLWEKSQLDEEFMHSENVCGCAKYECVKAPVCLSRELGVMQPGQ  
TVVELSADGVCHTSRCTTVLDPLTNFYQINTTSVLCDIHCEANQEYEHPRDLAACCGSCR  
NVSCSLFTFPNGTSTSLFLPGASWIADCARHHCSSSTPLGAVLVRSPISCPPLNETECAKVG  
SVVPSLEGCCRTCKEDGRSCKKVTIRMTIRKNECRSSTPVNLVSCDGRCPASASIYNYNIN  
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>sp|Q7RTS5|OTOP3\_HUMAN Otopetrin-3 OS=Homo sapiens GN=OTOP3 PE=1 SV=1

MGRGAAAAAQSRWGRASRASVSPGRTIRSAPAVGEAQETEAAPKENRVDVGAEERAAA  
TRPRQKSWLVRHFSLLLRRDRQAQKAGQLFSGLLALNVVFLGGAFICSMIFNKVAVTLGD  
VWILLATLKVLSLLWLLYYVASTTRRPHAVLYQDPHAGPLWVRGSLVLFSGCTFCLNIFR  
VGVDVSHIRCKSQLDLVFSVIEMVFIGVQTWVLWKHKDCVRVQTNFTRCGLMLTLATNL  
LLWVLAVTNDMSMHREIEAELGILMEKSTGNETNTCLCLNATACEAFRRGFLMLYPFSTEY  
CLICCAVLVFMWKNVGRHVAPHMGAHPATAPFHLHGAIFGPLLGLLVLLAGVCVFVLFQI  
EASGPAIACQYFTLYAFYVAVLPTMSLACLAGTAIHGLEERELDTVKNPTRSLDVLLM  
GAALGQMGIAYFSIVAIVAKRPELLNRLILAYSLLLILQHIAQNLFIIEGLHRRPLWET  
VPEGLAGKQEAEPPIRRGSLELGGQLQRASLAYIHSYSHLNWKRRALKEISLFLILCNIT  
LWMPAFGIHPEFENGLEKDFYGYQIWFAIVNFGLPLGVFYRMHSGGLVEVYLGA

>sp|Q8NHW6|OTOSP\_HUMAN Otopiralin OS=Homo sapiens GN=OTOS PE=2 SV=1

MQACMVPGLALCLLLGPLAGAKPVQEEGDPYAEPLAMPYWPSTSDFWNYVQHFQALGAY  
PQIEDMARTFFAHFPLGSTLGFHVPYQED

>sp|Q8N6M0|OTU6B\_HUMAN OTU domain-containing protein 6B OS=Homo sapiens GN=OTUD6B PE=1  
SV=1

MEAVLTEELDEEEQLRRHRKEKKELQAKIQGMKNAVPKNDKKRRKQLTEDVAKLEKEME  
QKHREELEQLKLTTKENKIDSVAVNISNLVLENQPPRISKAQKRREKKAALEREERIA  
EAEIENLTGARHMESEKLAQILAAQLEIKQIPSDGHCMYKAIEDQLKEKDCALTVVALR  
SQTAEYMQSHVEDFLPFLTNPTGDMYTPEEFQKYCEDIVNTAAWGGQLELRALSHILQT  
PIEIIQADSPPIIVGEEYSKKPLILVYMRHAYGLGEHNSVTRLVNIVTENC

>sp|P83859|OX26\_HUMAN Orexigenic neuropeptide QRFP OS=Homo sapiens GN=QRFP PE=2 SV=1

MVRPYPLIYFLFLPLGACFPLDRREPTDAMGGLGAGERWADLAMGPRPHSVWGSSRWLR  
ASQPQALLVIARGLQTSGREHAGCRFRFRGRQDEGEATGFLPAAGEKTSGLGNLAEELN  
GYSRKKGGFSFRFGRR

>sp|Q96KW2|P12L2\_HUMAN POM121-like protein 2 OS=Homo sapiens GN=POM121L2 PE=3 SV=2

MGSFLSKLELSPSSPAQVRTDLPERPTKRRPPQLHQVHRVQFVHRAHPAPRYRPVRRRP  
NLDPANPTTWLANEAWRRFPMKKSQNSPLGPLSDWWESYLKRTIWSLRHPRPIWSPVTI  
RITPPDQVRVPSTSPEDVIALAGLPSEELADPCSKETVLRLALRECRKGKGRLEEPLFPE  
SLDSKRRSPETRPSAFKPLMKNGLTSFVPRPGPLKRSLSHWSGDHSLTKRPNCSMSSL  
ASIRGGTLSSKRNAIGSSYSSCRNFSDPWKRSVPSVSFETPEWPIKKEKSCHRPSSPVP  
LVSDFESLGGSESSGQKNQKIPQLPSSPENLVSEIPPPQLGYAVSDENLTGKKAELQVS  
NNAGEDTTEVNTDPFPETWLAIQPSLSLALPSSETDLTQGANPQLENLRKMQKSLGPLAS  
PQSTGEATSVAHSPKTPSLTPPGCSQSELLPGTSPDSKPTATFILLTPTSPTLPVTD  
TWPPSTSQADRSPMPDPPAPPTIQSTLLGMVSPTSLSASAPPDATSAHMLKPIILGP  
LHNSEIGSSYSRISVTAAASSISSLSTIQGLTPTFKPIFGSIDPLKTPMIAPFSSKQ  
TPPPFTHASTHHFHLVKATSVVMSTTLASTSKDSVFKPPLDFGVVNVTSAVGNTYSVPS  
TCDTFLGTAQAFRADFTPATGFIFFPHHHPTIPTVHTVTMFTQVLSVVQISPRSSTAN  
FRMGSPPLPASALVSTNWLASTPSISNLTPAITSPLGSSSRPPFPLSQGANPQPAFGATN

GQKQGPSQPALMPVSSSSFLFGSSAVALPTPMPTPAQPAFISTTQSALGCLTPSASTSQT  
PASTWSGIGGIPAGFPISQASTTGFRIVIQTHQSGAFGSVFGSRAPQPFTFGGFVTPMDC  
DESGIIMTGPDMSPSTSGAFSIGALPSGTTNTMIPFGKWSQNTGELPSHRTAFSLGRGSI  
SARKTMAPIAQNTVPVPGQAKAGSSVGFGMPPPAQGSVGRGPFRSSASSFSIGAKSKTPK  
NREKGHSRRHHAYKK

>sp|E9PI22|P23D1\_HUMAN Proline-rich protein 23D1 OS=Homo sapiens GN=PRR23D1 PE=3 SV=1  
MYGYRRLRSPRDSQTEPQNDNEGTSLATQMNPPKRRQVEQGPSTGAKKPSISGAPHLN  
SYQSLELPQNQQDSGTEELMIVLEQGTEVRLSLEEVILILAPETVLQLTLENTVLVIVPE  
HVLRSDELQSPVQIQYIIPSVDDFSLEFHAQDGDIDMRRENVFSPAEEGKAAPLYQQ  
PLMIPQANHMAGISPSFLVTPLCIPRCRAAFPQCYPLPPTSPVGRPRPADSSFSLHGME  
LLCTSSLRPMPPSPSPGPQVYHRVHHRPPSRARRCLFRK

>sp|P51575|P2RX1\_HUMAN P2X purinoceptor 1 OS=Homo sapiens GN=P2RX1 PE=1 SV=1  
MARRFQEELAAFLFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVFLYEKGYQTSSG  
LISSVSVKLKGLAVTQLPGLGPQVWDVADYVFPAQGDNSFVMTNFIVTPKQTQGYCAEH  
PEGGICKEDSGCTPGKAKRKAQGIRTGKCVAFNDTVKTCEIFGWCPVEVDDIPRPALLR  
EAENFTLFIKNSISFPRFKVNRRLVEEVNAAHMKTCLEFHKTLHPLCPVFQLGYVVQESG  
QNFSTLAEKGGVVGITIDWHCDLDWHVRHCRPIYEFHGLYEEKNLSPGFNFRFARHFVEN  
GTNYRHLFKVFGIRFDILVDGKAGKFDIPTMTTIGSGIGIFGVATVLCDLLLHILPKR  
HYYKQKKFKYAEDMGPGAAERDLAATSSTLGLQENMRTS

>sp|Q9UBL9|P2RX2\_HUMAN P2X purinoceptor 2 OS=Homo sapiens GN=P2RX2 PE=1 SV=1  
MAAAQPKYPAGATARRLARGCSALWDYETPKVIVVRNRRLGVLYRAVQLLILLYFVWVY  
FIVQKSYQESETGPSESIITKVKGITTSEHKVWDVEEYVKPPEGGSVFSIITRVEATHSQ  
TQGTCPESIRVHNATCLSDADCVAGELDMLGNLRTGRCVPYYQGPSKTCEVFGWCPVED  
GASVSQFLGTMAPNFTILIKNSIHYPKFHFSKGNADRTDGYLKRCTFHEASDLYCPIFK  
LGFIVEKAGESFTELAHKGVGIVIIINWDCDLDPASECNPKYSFRRLDPKHVPASSGYN  
FRFAKYKINGTTTTRTLIKAYGIRIDVIVHGQAGKFSLIPTIINLATALTSVGVSFLCD  
WILLTFMNKNKVYSHKKFDKVCTPSHPSGSWPVTLARVLGQAPPEPGHRSEDQHPSPPSG  
QEGQQAECGPAFPPLRPCISAPSEQMVDTPASEPAQASTPTDPKGLAQL

>sp|Q93086|P2RX5\_HUMAN P2X purinoceptor 5 OS=Homo sapiens GN=P2RX5 PE=2 SV=4  
MGQAGCKGLCLSLFDYKTEKYVIAKNKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVD  
SLQSAVITKVKGVAFTNTSDLGQRIWDVADYVIPAQGENVFFVVTNLIVTPNQQRNVCAE  
NEGIPDGACSKSDCHAGEAVTAGNGVKTGRCLRRENLRGTCEIFAWCPLETSSRPEEP  
FLKEAEDFTIFIKNHIRFPKFNFSKSNVMDVKDRSFLKSCHFGPKNHYPICIFRLGSVIRW  
AGSDFQDIALEGGVIGINIEWNCDLKAASECHPHYSFSRLDNKLSKSVSSGYNFRFARY  
YRDAAGVEFRTLMAKYGIRFDMVNGKAFFCDLVLIYLKKREFYRDKKYEEVRGLEDS  
SQEADEASGLGLSEQLTSGPGLGMPEQQELQEPPEAKRGSSSQKNGSVCPQLLEPHR  
ST

>sp|Q15077|P2RY6\_HUMAN P2Y purinoceptor 6 OS=Homo sapiens GN=P2RY6 PE=1 SV=1  
MEWDNGTGQALGLPPTTCVYRENFKQLLLPPVYSAVLAAGLPLNICVITQICTSRRALTR  
TAVYTLNLALADLLYACSLPLLIYNYAQGDHWPFGDFACRLVRFLFYANLHGSILFLT  
SFQRYLGICHPLAPWHKRGRRAAWLVCVAVWLAVTTQCLPTAIFAATGIQRNRTVCYDL  
SPPALATHYMPYGMALTIVIGFLLPFAALLACYCLLACRLCRQDGAEPVAQERRGKAARM  
AVVVAAAFASIFLPFHITKTAYLAVRSTPGVPCTVLEAFAAAKGTTRPFASANSVLDPI  
FYFTQKKFRRRPHELLQKLTAKWQRQGR



>sp|Q9H244|P2Y12\_HUMAN P2Y purinoceptor 12 OS=Homo sapiens GN=P2RY12 PE=1 SV=1  
MQAVDNLTAPGNTSLCTRDKITQVLFPLLYTVLFFVGLITNGLAMRIFFQIRSKSNFI  
IFLKNTVISDLLMILTFPFKILSDAKLTGPLRTFVCQVTSVIFYFTMYISISFLGLITI  
DRYQKTTRPFKTSNPKNLLGAKILSVVIWAFMFLSLPNMILTNRQPRDKNVKKCSFLKS  
EFGLVWHEIVNYICQVIFWINFLIVIVCYTLITKELYRSYVTRGVGKVPKKNVNVKVI  
IIAVFFICFVPFHFARIPYTLSTQTRDVFDCTAENTLFYVKESTLWLTSLNACLDPIYFF  
LCKSFRNSLISMLKCPNSATSLSQDNRKKEQDGGDPNEETPM

>sp|Q15391|P2Y14\_HUMAN P2Y purinoceptor 14 OS=Homo sapiens GN=P2RY14 PE=2 SV=1  
MINSTSTQPPDESCSQNLLITQQIIPVLYCMVFIAGILLNGVSGWIFFYVPSSKSFIYIL  
KNIVIADFVMSLTFFPKILGDSGLGPWQLNVFVCRVSAVLFYVNMYSIVFFGLISFDRI  
YKIVKPLWTSFIQSVSYSKLLSVIWMMLLLAVPNIILTNQSVREVTQIKCIELKSELG  
RKWHKASNYIFVAIFWIVFLLLVFYTAITKKIFKSHLKSSRNSTSVKKKSSRNIFSIVF  
VFFVCFVPYHIARIPYTKSQTEAHYSCQSKEILRYMKEFTLLLSAANVCLDPIIYFFLCQ  
PFREILCKKLHIPLKAQNDLDIRIKRGNTTLESTDTL

>sp|Q8IVL5|P3H2\_HUMAN Prolyl 3-hydroxylase 2 OS=Homo sapiens GN=P3H2 PE=1 SV=1  
MRERIWAPPLLLLLPLLLPPPLWGPPDSPRRELELEPGPLQPFDLLYASGAAAYSGDY  
ERAVRDLEAALRSHRRLREIRTRCARHCAARHPLPPPPGEGPGAELPLFRSLLGRACY  
RSCETQRLGGPASRHRVSEDVRSDFQRRVPYNYLQRAYIKLNQLEKAVEAAHTFFVANPE  
HMEMQQNIENYRATAGVEALQLVDREAKPHMESYNAGVKHYEADDFEMAIRHFEQALREY  
FVEDTECRTLCGEPQRFEEYEYLGYKAGLYEAIADHYMQVLVCQHECVRELATRPGRSLP  
IENFLPLHYDYLQFAYYRVGEYVKALECAKAYLLCHPDDEDVLDNVDDYESLLDDSIDPA  
SIEAREDLTMFVKRHKLESELIKSAAEGLGFSYTEPNYWIRYGGQDENRVPSGVNVEGA  
EVHGFSGMKKLSPKIDRDLREGGPLLYENITFVYNSEQLNGTQRVLLDNVLSSEEQCRELH  
SVASGIMLVGDGYRGKTSPTPNKFEKATVLKALKSGYEGRVPLKSARLFYDISEKARR  
IVESYFMLNSTLYFSYTHMVCRTALSGQQDRRNDLSHPIHADNCLLDPEANECWKEPPAY  
TFRDYSALLYMNDDFEGGEFIFTEMDAKTVTASIKPKCGRMISFSSGGENPHGVKAVTKG  
KRCALVALWFTLDPLYRELERIQADEVIAILDQEQQGKHELNINPKDEL

>sp|Q9NXG6|P4HTM\_HUMAN Transmembrane prolyl 4-hydroxylase OS=Homo sapiens GN=P4HTM PE=1  
SV=2  
MAAAAVTGQRPETAAAEASRPQWAPPDHCQAQAAAGLGDGEDAPVRPLCKPRGICSRAY  
FLVLVMFVHLYLGNVLALLLFVHYSNGDESSDPGPQHRAQGPPEPTLGPLTRLEGIKVG  
HERKVQLVTRDHFIRTLSLKPLLEIPGFLTDEECRLIIHLAQMKGLQRSQILPTEEYE  
EAMSTMQVSQDLFRLLDQNRDGHLLREVLAQTRLGNGWWMTPESIQEMYAAIKADPDG  
DGVLSLQEFNSMDLRDFHKYMRSHKAESSELVRNSHHTWLYQGEGAHHIMRAIRQVRLRL  
TRLSPEIVELSEPLQVVRYGEGGHYHAHVDSGPVYPETICSHTKLVANESVPFETSCRYM  
TVLFYLNNTVGGGETVFPVADNRTYDEMSLIQDDVDLRDTRRHCDKGNLRVKPQQGTAVF  
WYNYPDGQGWGDVDDYSLHGGCLVTRGTKWIANNWINVDPSRARQALFQQEMARLARE  
GGTDSQPEWALDRAYRDARVEL

>sp|Q8TCG2|P4K2B\_HUMAN Phosphatidylinositol 4-kinase type 2-beta OS=Homo sapiens  
GN=PI4K2B PE=1 SV=1  
MEDPSEPDRLASADGGSPEEEEDGEREPLLPRIAWAHPRRGAPGSAVRLLDAAGEEGEAG  
DEELPLPPGDVGVSRSSEAELDRSRPAVSVTIGTSEMNAFLDDPEFADIMLRAEQAIIEVG  
IFPERISQGSSGSYFVKDPKRKIIIGVFKPKSEEPYQGLNPKWTKYVHKVCCPCCFGRGCL  
IPNQGYLSEAGAYLVDNKLHLSIVPKTKVWLVSETFNNAIDRAKSRGKKYALEKVPKV

GRKFHRIGLPPKIGSFQLFVEGYKEAEYWLRFKFEADPLPENIRKQFQSQFERLVILDYII  
RNTDRGNDNLVRYEKQKCEKEIDHKESKWIDDEEFLIKIAAIDNGLAFPFKHPDEWRAY  
PFHWAWLPQAKVPFSEEIRNLILPYISDMNFVQDLCEDLYELFKTDKGFDKATFESQMSV  
MRGQILNLTQALRDGKSPFQLVQIPCVIVERSQGGSQGRIVHLSNSFTQTVNCRKPPFFSS  
W

>sp|Q5MIZ7|P4R3B\_HUMAN Serine/threonine-protein phosphatase 4 regulatory subunit 3B  
OS=Homo sapiens GN=PPP4R3B PE=1 SV=2

MSDTRRRVKVYTLNEDRQWDDRGTHVSSTYVEELKGMSLLVRAESDGSLLLESKINPNT  
AYQKQQDTLIVWSEAENYDLALSFQEKAGCDEIWEKICQVQGKDPSVEVTQDLIDSEEEE  
RFEEMPETSHLIDLPTCELNKLEETADLVTSVLSSPIRREKLALALENEGYYKKLLQLFQ  
ACENLENTEGLHHLYEIIRGILFLNKATLFEVMFSECDIMDVVGCLEYPDALAPKRRHRE  
FLTAKTAKFEVIPITDSELRQKIHQTYRVQYIQDIILPTPSVFEENFLSTLTSFIFFNKV  
EIVSMLQEDEKFLSEVFAQLTDEATDDDKRRELNVNFFKEFCAFSQTLPQNRDAFFKTLA  
KLGILPALEIVMGMDLQVRSAAITDIFSYLEFSPSMVREFVMQEAQQSDDILLINVVI  
EQMICDTPDELGGAVQLMGLLRTLIDPENMLATTNKTEKSEFLNFFYNHCHMHLTAPLLT  
NTSEDKCEKDFFLKHRYRWSFICTPSHSHSTPSSSISQDNIVGSNKNNTICPDNYQT  
AQLLALILELLTFCVEHHTYHIKNYIMNKDLLRRVLVLMNSKHTFLALCALRFMRRIIGL  
KDEFYNRYITKGNLFEPVINALLDNGTRYNLLNSAVIELFEFIRVEDIKSLTAHIVENFY  
KALESIEYVQTFKGLKTKYEQEKDRQNQKLSVPSILRSNRFRRDAKALEEDEEMWFNED  
EEEEGKAVVAPVEKPKPEDDFPDNYEKFMETKKAKESDENLPKRTSPGGFKFTFSHA  
SAANGTNSKSVVAQIPPATSNNGSSSKTTNLPTSVTATKGSVLVGLVDYPDDEEDEEEESS  
PRKRPRLG

>sp|P04637|P53\_HUMAN Cellular tumor antigen p53 OS=Homo sapiens GN=TP53 PE=1 SV=4

MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGP  
DEAPRMPEAAPVAPAPAAPTAPAPAPSWPLSSSVPSQKTYQGSYGFRGLHSGTAK  
SVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTVEVRRCPHHE  
RCSDSDGLAPPQHILIRVEGNLRVEYLDDRNTFRHSVVVPYEPPEVGSDCCTTIHNYMCNS  
SCMGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGDRDRTEENLRKKGEPHHELP  
PGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPG  
GSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDSD

>sp|P32322|P5CR1\_HUMAN Pyrroline-5-carboxylate reductase 1, mitochondrial OS=Homo sapiens  
GN=PYCR1 PE=1 SV=2

MSVGFIGAGQLAFALAKGFTAAGVLAHKIMASSPDMDLATVSALRKMVGKLTPHNKETV  
QHSDVLFLAVKPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRC  
MTNTPVVVREGATVYATGTHAQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAY  
AFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQHPGQLKDNVSSPGGATIH  
ALHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSAGTAL  
SPSGHTKLLPRSLAPAGD

>sp|Q9UP65|PA24C\_HUMAN Cytosolic phospholipase A2 gamma OS=Homo sapiens GN=PLA2G4C PE=1  
SV=2

MGSSEVSIIPGLQKEEKAVERRRRLHVLKALKKLRIEADAPVAVLGS GGGLRAHIACL  
GVLSEMKEQGLLDAVTYLAGVSGSTWAISSLYTNDGDMEALEADLKHRFTRQEWDLAKSL  
QKTIQAARSENYSLTDFWAYMVISKQTRPELHLSNMKKPVEEGTLPYPIFAAIDNDLQ  
PSWQEARAPETWFETPHHAGFSALGAFVSI THFGSKFKKGRLVRTHPERDLTFLRGLWG

SALGNTEVIREYIFDQLRNLTCLKGLWRRAVANAKSIGHLIFARLLRLQESSQGEHPPPED  
EGGEPEHTWLTEMLNWTRTSLEKQEQPHEDPERKGSLSNLMDFVKKTGICASKWEWGTT  
HNFLYKHGGIRDKIMSSRKHLHLVDAGLAINTPFPLVLPPTREVHLILSFDFSAGDPFET  
IRATTDYCRRHKIPFPQVEEAELDLWSKAPASCYILKGETGPVVMHFPLFNIDACGGDIE  
AWSDTYDTFKLADTYTLDVVVLLLALAKKNVRENKKKILRELMNVAGLYYPKDSARSCCL  
A

>sp|Q5R387|PA2GC\_HUMAN Putative inactive group IIC secretory phospholipase A2 OS=Homo sapiens GN=PLA2G2C PE=3 SV=3

MKVIAILTLLLFCSPHTSSFWQFQRRVKHITGRSAFFSYGYGYCYGLGDKGIPVDDTDR  
HSPSSSPSPYEKLKEFSCQPVLNSYQFHIVNGAVVCGCTLGPGASCHCRLKACECDKQSVH  
CFKESLPTYEKNFKQFSSQPRCGRHKPWC

>sp|Q9BRP4|PAAF1\_HUMAN Proteasomal ATPase-associated factor 1 OS=Homo sapiens GN=PAAF1 PE=1 SV=2

MAAPLRIQSDWAQALRKDEGEAWLSCHPPGKPSLYGSLTCQGIGLDGIPEVTASEGFTVN  
EINKKSIHISCPKENASSKFLAPYTTFSRIHTKSITCLDISSRGGLGVSSSTDGTMKIWQ  
ASNGELRRVLEGHVFDVNCCRFPSGLVVLSSGMDAQLKIWSAEDASCVVTFKGHKGGIL  
DTAIVDRGRNVVSASRDGTARLWDCGRSACLGVLADCGSSINGVAVGAADNSINLGSPEQ  
MPSEREVGTEAKMLLLAREDKKLQCLGLQSRQLVFLFIGSDAFNCCTFLSGFLLLAGTQD  
GNIYQLDVRSRAPVQVIHRSGAPVLSLLSVRDGFIAQQGDGSCFIVQQDLDYVTELTGA  
DCDPVYKVATWEKQIYTCCRDGLVRRYQLSDL

>sp|POCB38|PAB4L\_HUMAN Polyadenylate-binding protein 4-like OS=Homo sapiens GN=PABPC4L PE=2 SV=1

MNVAKYRMASLYVGDHADVTEDLLFRKFSTVGPVLSIRICRDQVTRRSLGYAYVNFLQ  
LADAQKALDTMNFDIKGSIRLMWSQRDAYLRRSGIGNVFIKNLDKSIDNKTYEHFSA  
FGKILSSKVMDDQGSKGAFVHFQNSAADRAIEEMNGKLLKGCKVFVGRFKNRKDREA  
ELRSKASEFTNVYIKNFGGDMDDERLKDVFSSKYGKTLVKVMTDSSGSKSGFGFVSFDSH  
EAAKKAVEEMNGRDINGQLIFVGRAQKKVERQAEKQMFELKRERIRGCQGVKLYIKNL  
DDTIDDEKLRFSSFGSISRVKVMQEEGQSKGFLICFSSPEDATKAMTEMNGRILGSK  
PLSIALAQRH

>sp|Q58A45|PAN3\_HUMAN PAB-dependent poly(A)-specific ribonuclease subunit PAN3 OS=Homo sapiens GN=PAN3 PE=1 SV=3

MNSGGGLPPPSAAASPSSSSLA AVAVVAPPGVGGVPGGAAGVVKLYCRYAKDKTCFY  
GEECQFLHEDPAAGAAPGLGLHSNSVPLALAGAPVAGFPFGAVAGGGAGPPPGPKKPDLG  
DPGTGAAAGGGSSGGLDGPRLAIPGMDGGALTDTSLTDSYFSTSFIGVNGFGSPVETKY  
PLMQRMTNSSSPSLNDSAKPYSAHDPLTSPASSLFNDFGALNISQRRKPRKYRLGML  
ERLVPMSGKARKAKNPICGLADRCKSGVPINMVWNRVTENNLQTPNPTASEFIPKGGST  
SRLSNVSQSNMSAFSQVFSHPMSGPATAGLAPGMSLSAGSSPLHSPKITPHTSPAPRRR  
SHTPNPASVMVPSSASTSVNNPVSQTPSSGQVIQKETVG GTTYFYTDTPAPLTGMVFPN  
YHIYPPTAPHVAYMQPKANAPSFMADEL RQELINRHLITMAQIDQADMPAVPTEVDSYH  
SLFPLEPLPPPNRIQSSNFGYITSCYKAVNSKDDLPYCLRRIHGFRVNTKCMVLVDMW  
KKIQHSNIVTLREVFTTKAFAEPSLVFAYDFHAGGETMMSRHFNDPNADAYFTKRKGQH  
EGPLPRQHAGLLPESLIWAYIVQLSSALRTIHTAGLACRVMDPTKILITGKTRLRVNCVG  
VFDVLTFDNSQNNNPLALMAQYQQADLISLGKVV LALACNSLAGIQREN LQKAMELV TIN  
YSSDLKNLILYLLTDQNRMRSVNDIMPMIGARFYTQLDAAQMRNDVIEEDLAKEVQNGRL

FRLAKLGTINERPEFQKDPTWSETGDRYLLKLFDRHDLFHQVTEAGAPWIDLSHIISCLN  
KLDAGVPEKISLISRDEKSVLVVITYSDLKRCFENTFQELIAAANGQL

>sp|Q86Y26|NUTM1\_HUMAN NUT family member 1 OS=Homo sapiens GN=NUTM1 PE=1 SV=2

MASDGASALPGPDMSMKPSAAPSPSPALPFLPPTSDPPDHPPREPPQPIMPSPVSPDNP  
LMLSAFPSSLLVTGDGGPCLSGAGAGKVIKVKTEGGSAEPSQTQNFILQTALNSTAPG  
TPCGGLEGPAPPFVTASNVKTIILPSKAVGVSQEGPPGLPPQPPPPVAQLVPIVPLEKAWP  
GPHGTTGEGGPVATLSKPSLGDRSKISKDVYENFRQWQRYKALARRHLSQSPDTEALSCF  
LIPVLRSLARLKPTMTLEEGLPLAVQEWHTSNFDRMIFYEMAERFMEFEAEEMQIQNTQ  
LMNGSQGLSPATPLKLDPLGLASEVCQQPVYIPKKAASKTRAPRRRQRKAQRPPAPEAP  
KEIPPEAVKEYVDIMEWLVGTHLATGESDGKQEEEGQQQEEEGMYPDPGLLSYINELCSQ  
KVFVSKVEAVIHPQLADLLSPEKQRDPLALIEELEQEEGLTLAQLVQKRLMALEEEEDA  
EAPPSFSGAQLDSSPSGSVEDEGDGRLRPSPLQGAGGAACLGKVSSSGKRAREVHGGQ  
EQALDSPRGMHRDGNTLPSSSWDLQPELAAPQGTGPGPLGVERRGSGKVINQVSLHQDGH  
LGGAGPPGHCLVADRTSEALPLCWQGGFQPESTPSLDAGLAELAPLQGGGLEKQVLGLQK  
GQQTGGRGVLPQGKEPLAVPWEGSSGAMWGDDRGTMAQSYDQNPSPRAAGERDDVCLSP  
GVWLSSEMDAVGLELPVQIEEVIESFQVEKCVTEYQEGCQGLGSRGNISLGPGETLVPGD  
TESSVIPCGGTAAAALEKRNYSCLPGPLRANSPPLRSKENQEQSCETVGHPSDLWAEGC  
FPLLES GDSTLGSSKETLPPTCQGNLLIMGTEDASSLPEASQEAGSRGNSFSPLLETIEP  
VNILDVKDDCGLQLRVSEDTCPNVHSYDPQGEGRVDPDLSKPKNLAPLQESQESYTTGT  
PKATSSHQGLGSTLPRRGRNAIVPRETSVSKTHRSADRAKGEKKKKKEAEEDEELS NF  
AYLLASKLSLSPREHPLSPHHASGGQGSQRASHLLPAGAKGPSKLPYPVAKSGKRALAGG  
PAPTEKTPHSGAQLGVPREKPLALGVVRPSQPRKRRCD SFVTGRRKKRRRSQ

>sp|Q9NRN5|OLF13\_HUMAN Olfactomedin-like protein 3 OS=Homo sapiens GN=OLF13 PE=2 SV=1

MGPSTPLLILFLLSWGGLQGQHHLVEYMERRLAALERLAQCQDQSSRHAAELRDFKN  
KMLPLEVAEKEREALTEADTISGRVDRLEREVDYLETQNPALPCVEFDEKVTGGPGTK  
GKGRRNEKYDMVTDGTYTISQVRSMKILKRFGGPAGLWTKDPLGQTEKIYVLDGTQNDTA  
FVFPRLRDFTLAMAARKASRVVPFPWVGTLVYGGFLYFARRPPGRPGGGGEMENTLQ  
LIKFHLANRTVVDSSVFAEGLIPPYGLTADTYIDLADEEGLWAVYATREDDRHLC LAK  
LDPQTLDTTEQQWDTPCPRENAEAA FVICGTLV VYNTRPASRARIQCSFDASGTLTPERA  
ALPYFPRRYGAHASLRYNPRERQLYAWDDGYQIVYKLEMRKKEEV

>sp|Q6UX06|OLFM4\_HUMAN Olfactomedin-4 OS=Homo sapiens GN=OLFM4 PE=1 SV=1

MRPGLSFLALLFLLGQAAGDLGDVGPIPSPGFSSFPDSSSSSFSSSRSGSSSSRSL  
GSGGSVSQ LFSNFTGSDRGTCQCSVSLPDTTFPVDRVERLEFTAHVLSQKFEKELSKV  
REYVQLISVYEKLLNLTVRIDIMEKDTISYTELDFELIKVEVKEMEKLVIQLKESFGGS  
SEIVDQLEVEIRNMTLLVEKLETLDKNNVLAIRREIVALKTKLKECEASKDQNTPVVHPP  
PTPGSCGHGGVVNISKPSVVQLNWRGFSYLYGAWGRDYSQHPNKGLYWVAPLNTDGRLL  
EYYRLYNTLDDL LLYINARELRITYGQSGTAVYNNNMVYNYNTGNIARVNLTNTIAV  
TQTLPNAA YNNRFSYANVAWQDIDFAVDENGLWVIYSTEASTGNMVISKLN DTTLQVLNT  
WYTKQYKPSASNAFMVCGVLYATRTMNTREEIFYYDYDNTGKEGKL DIVMHKMQEKVQS  
INYNPFDQKLYVYNDGYLLNYDLSVLQKPQ

>sp|Q68BL8|OLM2B\_HUMAN Olfactomedin-like protein 2B OS=Homo sapiens GN=OLF12B PE=2 SV=2

MAKPRLLVLYFALIVPAWSSIVLTGTSEPPDAQTVAPAEDET LQNEADNQENVSQLL  
GDYDKVKAMSESDCQCKCVVRPLGRDACQRINAGASRKEDFYTVETITSGSSCKCACVA  
PPSALNPCEGDFRLQKLREADSQDLKLSTIIDMLEGAFYGLDLLKLSVTTKLVG RVDKL

EEEVSKNLTKENEQIKEDMEEIRTEMNKRKGKENCSENILDSMPDIRSALQRDAAAAYAHP  
EYEEERFLQEETVSQQINSIELLQTRPLALPEVVKSQRPLQRQVHLRGRPASQPTVIRGIT  
YYKAKVSEEENDIEEQQDEFFSGDNGVDLLIEDQLLRHNGLMTSVTRRPAATRQGHSTAV  
TSDLNARTAPWSSALPQPSTSDPSIANHASVGPTLQTTSVSPDPTRESVLQSPQVPATT  
VAHTATQQPAAPAPPAVSPREALMEAMHTVPVPPTTVRTDSL GKDAPAGWGTPASPTLS  
PEEEDDIRNVIGRCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDERIYVTNYYYGNLTV  
EFRNLENFKQGRWSNSYKLPYSWIGTGHVVYNGAFYYNRAFRNI IKYDLKQRYVAAWAM  
LHDVAYEEATPWRWQGHSDVDFAVDENGWL IYPALDDEGFSQEVIVLSKLNADLSTQK  
ETTWTGLRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDTHNTQIVPRLLFENEYSY  
TTQIDYNPKDRLLYAWDNGHQVTHVIFAY

>sp|Q99983|OMD\_HUMAN Osteomodulin OS=Homo sapiens GN=OMD PE=1 SV=1

MGFLSPIYVIFFFGVKVHCQYETYQWDEDYDQEPDDDYQTGFPPRQNVQYGVPPHQT  
GCVSECFCTNFPSSMYCDNRKLTIPNIPMHIQQLYLQFNEIEAVTANSFINATHLKEI  
NLSHNLIKSKIDYGVFAKLPNLLQLHLEHNLEEFPPPLPKSLERLLGYNEISKLTN  
AMDGLVNLTMLDL CYNYLHDSLLKDKIFAKMEKLMQLNLCNRLSMPPGLPSSLMYLSL  
ENNSISSIPEKYFDKLPKLHTRMSHNKLQDIPYNIFNLPNIVELSVGHNKLKQAFYIPR  
NLEHLYLQNEIEKMNLTMCPSIDPLHYHHLTYIRVDQNKLEPISSYIFFCFPHIHTI  
YYGEQRSTNGQTIQLKTQVFRFPDDDDSEDHDDPDNAHESPEQEGAEGHFDLHYENQ  
E

>sp|Q9HIY3|OPN3\_HUMAN Opsin-3 OS=Homo sapiens GN=OPN3 PE=1 SV=1

MYSGNRSGGHGYWDGGAAGAEGPAPAGTSPAPLFSPGTYERLALLGSIGLLGVGNL  
LVLVLYYKFQRLRTPHLLLVNISLSDLLVSLFGVTFTFVSCLRNGVWWDTVGCVWDGFS  
GSLFGIVSIATLTVLAYERIYRVVHARVINFSWAWRAITYIWLYSLAWAGAPLLGWNRYI  
LDVHGLGCTVDWKS KDANDSSFVFLFLGCLVVPLGVIAHCYGHILYSIRMLRCVEDLQT  
IQVIKILKYEKKLAKMCFLMIFTFLVCWMPYIVICFLVNGHGHLVTPPTISIVSYLFAKS  
NTVYNPVIYVFMIRKFRRSLLQLLCLRLRCQRPKDLPAAGSEMQIRPIVMSQKGDGRP  
KKKVTFNSSSIIFIITSDESLSVDDSDKTNGSKVDVIQVRPL

>sp|Q9UHM6|OPN4\_HUMAN Melanopsin OS=Homo sapiens GN=OPN4 PE=1 SV=1

MNPPSGPRVPPSPTQEPSCMATPAPPSWWDSSQSSISLGRLPISPTAPGTWAAAVPL  
PTVDVPDHAHYTLGTVILLVGLTGMLGNLTVIYTFCSRSLRTPANMFIINLAVSDFLMS  
FTQAPVFTSSLYKQWLFGETGCFYAFCGALFGISSMITLTAIALDRYL VITRPLATFG  
VASKRRAAFVLLGVWLYALAWSLPPFFGWSAYVPEGLLTSCSWDYSFTPAVRAYTMLLC  
CFVFFLPLLI IICYIFIFRAIRETGRALQTFGACKGNESLWQRQLQSECKMAKIMLL  
VILLFVLSWAPYSAVALVAFAGYAHVLT PYMSSVPAVIAKASAIHNPIIYAITHPKYRVA  
IAQHLPCLGVLLGVSRRHSRPPSYRSTHRSTLTSHTSNLSWISIRRRQESLGSESEVGW  
THMEAAAVWGAAQQANGRSLYGQGLEDAKAPPRPQGHEAETPGKTKGLIPSQDPRM

>sp|Q6U736|OPN5\_HUMAN Opsin-5 OS=Homo sapiens GN=OPN5 PE=1 SV=3

MALNHTALPQDERLPHYLRDGPFAKLSWEADLVAGFYLTIIIGILSTFGNGYVLYMSSR  
RKKKLRPAEIMTINLAVCDLGISVVGKPFTHIISCFCHRWWFGWIGRWYGWAGFFFGCGS  
LITMTAVSLDRYLKICYLSYGVWLKRKHAYICLAAIWAYASFWTMPLVGLGDYVPEPFG  
TSCTLDWWLAQASVGGQVFI LNILFFCLLLPTAVIVFSYVKIIAKVKSSSKEVAHFDSRI  
HSSHVLEMKLTKVAMLI CAGFLIAWIPYAVVSVWSAFGRPDPIQLSVVPTLLAKSAAM  
YNPIIYQVIDYKFACQGTGLKATKKKSLEGFRLHTVTTVRKSSAVLEIHEWE

>sp|P35372|OPRM\_HUMAN Mu-type opioid receptor OS=Homo sapiens GN=OPRM1 PE=1 SV=2

MDSSAAPTNASNCTDALAYSSCPAPSPGSWVNLSHLDGNLSDPCGPNRTDLGGRDSLCP  
PTGSPSMITAITIMALYSIVCVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALAT  
STLPFQSVNYLMGTWPFGTILCKIVISIDYNNMFTSIFTLCTMSVDRIYAVCHPVKALDF  
RTPRNAKIINVCNWLSSAIGLPVMFMATTKYRQGSIDCTLTFSHPTWYWENLLKICVFI  
FAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITRMVLVVAVFIVCWTPIH  
YVIIKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREFCIPTSSNI  
EQQNSTRIRQNTDRHPSTANTVDRTNHQLENLEAETAPLP

>sp|P41146|OPRX\_HUMAN Nociceptin receptor OS=Homo sapiens GN=OPRL1 PE=1 SV=1

MEPLFPAPFWEVIYGSHLQGNLSLLSPNHSLLPPHLLLNASHGAFLPLGLKVTIVGLYLA  
VCVGGLLGNCVLMYVILRHTKMTATNIYIFNLALADTLVLLTLFPQGTDILLGFWPFGN  
ALCKTVIAIDYNNMFTSTFTLTAMSVDRIYAICHPIRALDVRTSSKAQAVNVAIWALASV  
VGVPVAIMGSAQVEDEEIECLVEIPTQDYWGPVFAICIFLFSFIVPVLVISVCYSLMIR  
RLRGVRLSGSREKDRNLRRITRLVLVVAVFVGCWTPVQVFLAQGLGVQPSSETAVAI  
LRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASALRRDVQVSDRVSIAKDVALAC  
KTSETVPRPA

>sp|PODN78|OPSG3\_HUMAN Medium-wave-sensitive opsin 3 OS=Homo sapiens GN=OPN1MW3 PE=3 SV=1

MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYNSNSTRGPFEGPNYHIAPRWVYHLTSVWM  
IFVVIASVFTNGLVLAATMKFKKLRLHPLNWLNLAVADLAETVIASTISVVNQVGYFV  
LGHPMCVLEGYTVSLCGITGLWSLAIISWERWMVCKPFGNVRFDAKLAIVGIAFSWIWA  
AVWTAPPIFGWSRYWPHGLKTSCGPDVFSGSSYPGVQSYMIVLMVTCCITPLSIIVLCYL  
QVWLAIRAVAKQKQKESESTQKAEKEVTRMVVMVLAFCFCWGPYAFFACFAANPGYPFH  
PLMAALPAFFAKSATIYNPVIYVFMNRQFRNCILQLFGKKVDDGSELSSASKTEVSSVSS  
VSPA

>sp|Q8NGS0|OR1N1\_HUMAN Olfactory receptor 1N1 OS=Homo sapiens GN=OR1N1 PE=3 SV=1

MENQSSISEFFLRGISAPPEQQQLFGIFLCMYLVTLTGNNLIILAIGSDLHLHTPMYFF  
LANLSFVDMGLTSSTVTKMLVNIQTRHHTISYTGCLTQMYFFLMFGDLDSFFLAAMAYDR  
YVAICHPLCYSTVMRPQVCALMLALCWVLTNIVALHTHTFLMARLSFCVTGEIAHFFCDIT  
PVLKLSGSDTHINEMMVFLVGGTVLIVPFLCIVTSYIHIVPAILRVTRGGVGKAFSTCS  
SHLCVVCVFYGTLSAYLCPPSIASEEKDIAAAAMYTIVTPMLNPFYISLRNKMKGALK  
RLFSHRSIVSS

>sp|Q15612|OR1Q1\_HUMAN Olfactory receptor 1Q1 OS=Homo sapiens GN=OR1Q1 PE=2 SV=3

MDNSNWTSVSHFVLLGISTHPEEQIPLFLVFSLMYAINISGNLAIITLILSAPRLHIPMY  
IFLSNLALTDICFTSTTVPKMLQIIFSPTKVISYTGCLAQTYFFICFAVMENFILAVMAY  
DRYIAICHPPHYTMILTRMLCVKMVMVCHALSHLHAMLHTFLIGQLIFCADNRIPHFFCD  
LYALMKISCTSTYLNLMIHTEGAVVISGALAFITASYACIILVVLRIPSAKGRWKTFTST  
CGSHLTVAIFYGTLSWVYFRPLSSYSVTKGRIITVVYTVVTPMLNPFYISLRNGDVKGG  
FMKWMSRMQTFFR

>sp|Q96R45|OR2A7\_HUMAN Olfactory receptor 2A7 OS=Homo sapiens GN=OR2A7 PE=2 SV=3

MGDNITSITEFLLGFPVGPRIQMLLFLGLFSLFYVFTLLGNGTILGLISLDSRLHAPMYF  
FLSHLAVVDIAYACNTVPRMLVNLHPAKPISFAGRMMQTFLFSTFAVTECLLLVMSYD  
LYVAICHPLRYLAIMTWRCITLAVTSWTTGVLLSLIHLVLLPLPFCRPQKIYHFFCEI  
LAVLKLACADTHINENMVLAGAISGLVGPLSTIVVSYMCILCAILQIQSREVQRKAFCTC  
FSHLCVIGLFYGTAIMYVGPRYGNPKEQKKYLLLFHSLFNPMLNPLICSLRNSEVKNTL  
KRVLGVERAL

>sp|P58173|OR2B6\_HUMAN Olfactory receptor 2B6 OS=Homo sapiens GN=OR2B6 PE=2 SV=1  
MNWVNDIIQEFILLGFSDRPWLEFPLLVVFLISYTVTIFGNLTIIILVSRLDTKLHTPMY  
FFLTNLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGCVAQLFIFLALGATEYLLLAVMSF  
DRFVAICRPLHYSVIMHQRLCLQLAAASWVTGFSNSVWLSTLTQLPLCDPYVIDHFLCE  
VPALLKLSCVETTANAEFLVSELFHLIPLTLILISYAFIVRAVLRIQSAEGRQKAFGT  
CGSHLIVVSLFYSTAVSVYLQPPSPSSKDQGKMVSLFYGIIAPMLNPLIYTLRNKEVKEG  
FKRLVARVFLIKK

>sp|095371|OR2C1\_HUMAN Olfactory receptor 2C1 OS=Homo sapiens GN=OR2C1 PE=2 SV=3  
MDGVNDSSLQGFVLMGISDHPQLEMIFFIAILFSYLLTLLGNSTIILLRLEARLHTPMY  
FFLSNLSSLDLAFATSSVPQMLINLWGPCKTISYGGCITQLYVFLWLGATECILLVVMF  
DRYVAVCRPLRYTAIMNPQLCWLAVIACLGGLGNSVIQSTFTLQLPLCGHRRVEGFLCE  
VPAMIKLACGDTSLNQAVLNGVCTFFTAVPLSIIVISYCLIAQAVLKIRSAEGRRKAFNT  
CLSHLLVVFLFYGSASYGYLLPAKNSKQDQGKFISLFYSLVTPMVNPLIYTLRNMEVKGA  
LRLLGKGREVG

>sp|Q13607|OR2F1\_HUMAN Olfactory receptor 2F1 OS=Homo sapiens GN=OR2F1 PE=2 SV=2  
MGTDNQTWVSEFILLGLSSDWDTRVSLFVFLVMYVTVLGNCLIVLLIRLDSRLHTPMY  
FFLTNLSLVDVSYATSVVPQLLAHFLAEHKAIPFQSCAAQLFFSLALGGIEFVLLAVMAY  
DRYVAVCDALRYSAIMHGGLCARLAITSWVSGFISSPVQTAITFQLPMCRNKFIDHISCE  
LLAVVRLACVDTSSNEVTIMVSSIVLLMTPFCLVLLSYIQIISTILKIQSREGRKKAFHT  
CASHLTVVALCYGVAIFTYIQPHSSPSVLQEKLFVVFYAILTPMLNPMIYSLRNKEVKGA  
WQKLLWKFSGLTSKLAT

>sp|Q5TZ20|OR2G6\_HUMAN Olfactory receptor 2G6 OS=Homo sapiens GN=OR2G6 PE=2 SV=1  
MEETNNSSEKGFLLLGFSDQPQLERFLFAIILYFYVLSLLGNTALILVCCLDSRLHTPMY  
FFLSNLSCVDICFTTSVAPQLLVMTNKKDKTMSYGGCVAQLYVAMGLGSSECILLAVMAY  
DRYAAVCRPLRYIAIMHPRFCASLAGGAWLSGLITSLIQCSLTVQLPLCGHRTLDHIFCE  
VPVLIKLACVDTTFNEAEFLVASVVFLIVPVLLILVSYGFITQAVLRIKSAAGRQKAFGT  
CSSHLVVVIFFYGTIIFMYLQPANRRSKNQGKFVSLFYTIVTPLLNP IYTLRNKDVKGA  
LRTLILGSAAGQSHKD

>sp|Q8NGY9|OR2L8\_HUMAN Olfactory receptor 2L8 OS=Homo sapiens GN=OR2L8 PE=3 SV=1  
MENYNQTSTDFILLGLFPPSRIDLFFFILIVFIFLMALIGNLSMILLIFLDTHLHTPMYF  
LLSQLSLIDLNYISTIVPKMASDFLHGKNSISFTGCGIQSFFFLALGGAEALLASMAYD  
RYIAICFPLHYLIRMSKRVCVLMITGSWIIGSINACAHTVYVLHIPYCRSRAINHFFCDV  
PAMVTLACMDTWVYEGTVFLSATIFLVFPFIGISCSYGQVLFAVYHMKSAEGRKKAYLTC  
STHLTVVTFYFYPFYTYLRPRSLRSPTEKVLAVFYTILTPMLNP IYSLRNKEVMGAL  
TRVSQRICSVKM

>sp|A3KFT3|OR2M5\_HUMAN Olfactory receptor 2M5 OS=Homo sapiens GN=OR2M5 PE=3 SV=1  
MAWENQTFNSDFILLGIFNHSPHTHTFLFLVLAIFSVAFMGNSVMVLLIYLDTQLHTPMY  
FLLSQLFLMDMLICSTVPKMAFNLYSGSKSISMAGCATQIFFYVSLGSECFLAVMSY  
DRYIAICHLPLRYTNLMRPKICGLMTAFSWILGSMDAIIDAVATFSFSYCGSREIAHFFCD  
FPSLLILSCNDTSIFEKVLFICCIVMIVFPVAIIIASYARVILAVIHMGSGEGRRKAFTT  
CSSHLMVVGMYGAGLFMYIRPTSDRSPMQDKLVSVFYTILTPMLNPLIYSLRNKEVTRA  
LRKVLGKGKCGE

>sp|Q6IEZ7|OR2T5\_HUMAN Olfactory receptor 2T5 OS=Homo sapiens GN=OR2T5 PE=3 SV=1  
MANITRMANHTGKLDFILMGLFRRSKHPALLSVVIFVVFLLKALSGNAVLILLIHCDALH

SPMYFFISQLSLMDMAYISVTPKMLLDQVMGVNKVSAPECGMQMFLYLTLAGSEFFLLA  
TMAYDRYVAICHPLRYPVLMNHRVCLFLASGCWFLGSVDGFMLTPITMSFPFCRSWEIHH  
FFCEVPAVTILSCSDTSLYETLMLYLCCVLMLLIPVTIISSSYLLILLTVHRMNSAEGRRK  
AFATCSSHLTVVILFYGAAYTYMLPSSYHTPEKDMMVSVFYTILTPVLNPLIYSLRNKD  
VMGALKKMLTVRFVL

>sp|POC7T2|OR2T7\_HUMAN Olfactory receptor 2T7 OS=Homo sapiens GN=OR2T7 PE=3 SV=1  
MPTLSFWVCSATPVSPGFFALILLVFVTSIASNVVKIILIHIDSRHTPMYFLLSQLSLR  
DILYISTIVPKMLVDQVMSQRAISFAGCTAQHFLYLTLAGAEFFLLGLMSCDRYVAICNP  
LHYPDLMSRKICWLIVAAAWLGGSIDGFLLTPVTMQFPFCASREINHFFCEVPALLKLSC  
TDT SAYETAMYVCCIMMLLIPFSVISGSYTRILITVYRMSEAEGRRKAVATCSSHMVVVS  
LFYGAAMYTYVLPHSYHTPEQKAVSAFYTILTPMLNPLIYSLRNKDVGTALQKVVGRCV  
SSGKVTF

>sp|P47881|OR3A1\_HUMAN Olfactory receptor 3A1 OS=Homo sapiens GN=OR3A1 PE=2 SV=2  
MQPESGANGTVIAEFILLGLLEAPGLQPVVFLFLFAYLTVRGNSILA AVLVEPKLHT  
PMYFFLGNLSVLDVGCISVTPSMLSRLLSRKRAVPCGACLTQLFFHFLVGVDCFLTA  
MAYDRFLAICRPLTYSTRMSQTVQRMLVAASWACAFTNALHTVAMSTLNFCGPNVINHF  
YCDLPQLFQLSCSSTQLNELLLFAVGFI MAGTPMALIVISYIHVAAAVLRIRSVEGRKKA  
FSTCGSHLTVVAIFYGSGIFNYMRLGSTKLSKDKAVGIFNTVINPMLNPIIYSFRNPDV  
QSAIWRMLTGRRSLA

>sp|Q8NGB2|OR4C5\_HUMAN Olfactory receptor 4C5 OS=Homo sapiens GN=OR4C5 PE=3 SV=1  
MYVSNCPCAIHRKINYPNTKLD FEQVNNITEFILLGLTQNAEAQKLLFAVFTLIYFLTM  
VDNLIIVVTITTSPALDSPVYFFLSFFSFIDGCSSTMAPKMIFDLLTEKKTISFSGCMT  
QLFVEHFFGGVEIILLVVMAYDCYVAICKPLYLITMNRQVCGLLVAMAWVGGFLHALIQ  
MLLIVWLPFCGPNVIDHFICDLFP LLKLSCDTHVFGLFVAANSGLMCMLIFSILITSYV  
LILCSQRKALSTCAFHITVVVLFVPCILVYLRPMITFPIDKAVSVFYTVVTPMLNPLIY  
TLRNTEVKNAMKQLWSQIIWGNLCD

>sp|Q8NGP0|OR4CD\_HUMAN Olfactory receptor 4C13 OS=Homo sapiens GN=OR4C13 PE=2 SV=2  
MANRNNVTEFILLGLTENPKMQKII FVVFSVIYINAMIGNVLIVVTITASPSLRSPMYFF  
LAYLSFIDACYSSVNTPKLITDSLYENKTI LFNGCMTQVFGEHFFRGVEVILLTMAYDH  
YVAICKPLHYTTVMKQHVCSSLVGVSWVGGFLHATIQILFICQLPFCGPNVIDHFMCDLY  
TLINLACTNTHTLGLFIAANSFGICLLNCLLLL VSCVILYSLKTHSLEARHEALSTCVS  
HITVVILSFIPCFVYMRPPATLPIDKAVAVFYTMITSM LNPLIYTLRNAQMKNAIRKLC  
SRKAISVK

>sp|Q8NGJ1|OR4D6\_HUMAN Olfactory receptor 4D6 OS=Homo sapiens GN=OR4D6 PE=2 SV=1  
MDQINHTNVKEFFLELTRSREFFLFVVFVAVYVATVLGNALIVVTITCESRLHTPMY  
FLLRNKSVLDIVFSSITVPKFLVDLLSDRKTISYND CMAQIFFFHAGGADIFFLSVMAY  
DRYLAI AKPLHYVTMMRKEVWVALVVASWVSGGLHSIIQVILMLPFPFCGPNTLDAFYCY  
VLQVVKLACTDTFALELFMISNNGLVTL LWFLLLLGSYTVILVMLRSHSGEGRNKALSTC  
TSHMLVVTLHFVPCVYIYCRPFMTLPMDTTISINNTVITPMLNPIIYSLRNQEMKSAMQR  
LQRR LGPSES RKWG

>sp|Q8NGI4|OR4DB\_HUMAN Olfactory receptor 4D11 OS=Homo sapiens GN=OR4D11 PE=3 SV=1  
MELGNVTRVKEFIFLGLTQSQDQSLVFLFLCLVYMTLLGNLLIMVTVTCE SRLHTPMY  
FLLRNLAILDICFSSTAPKVLLDLLSKKKTISY TSCMTQIFLHLLGGADIFSLSVMAF  
DCYMAISKPLHYVTIMSRGQCTALISASWMGGFVHSIVQISLLLPLPFCGPNVLDTFYCD



VPQVLKLTCTDTFALEFLMISNGLVTTLWFIFLLVSYTVILMTLRSQAGGRRKAISTC  
TSHITVVTLHFVPCIIYVYARPFTALPTEKAISVTFTVISPLLNPLIYTLRNQEMKSAMRR  
LKRRLVPSERE

>sp|Q8NGC2|OR4E2\_HUMAN Olfactory receptor 4E2 OS=Homo sapiens GN=OR4E2 PE=3 SV=1  
MDSL NQTRVTEFVFLGLTDNRVLEMLFFMAFS AIYMLT LSGNII I IATVFTPSLHTPMY  
FFLSNLSFIDICHSSVTVPKMLEGLLLERKTISFDNCITQLFFLHLFACAEIFLLIIVAY  
DRYVAICTPLHYPNMVMNRVCIQLVFALWLG GTVHSLGQTFLTIRLPYCGPNIIDSYFCD  
VPLVIKLACTDTYLTGILIVTNSGTISLSCFLAVVTSYMVILVSLRKHSAEGRQKALSTC  
SAHFMVVALFFGPCIFIYTRPDTSFSDKVVSVFYTVVTPLLNPFIIYTLRNEEVKSAMKQ  
LRQRQVFFTKSYT

>sp|Q96R69|OR4F4\_HUMAN Olfactory receptor 4F4 OS=Homo sapiens GN=OR4F4 PE=2 SV=2  
MVTEFIFLGLSDSQELQTFLFMLFFVFGGIVFGNLLIVITVVS DSHLHSPMYFLLANLS  
LIDLSSLSSVTAPKMITDFFSQRKVISFKGCLVQIFLLHFFGGSEMVILIAMGFDRYIAIC  
KPLHYTTIMCGNACVGIMAVAWGIGFLHSVSQLAFVHL PFCGPNEVDSFYCDLPRVIKL  
ACTDTYRLDIMVIANSGLTVCSFVLLIISYTIILMTIQHCPLDKSSKALSTLTAHITVV  
LLFFGPCVFIYAWPFIKSLDKFLAVFYSVITPLLNP I IYTLRNKDMKTAIRRLRKWDAH  
SSVKF

>sp|Q96R72|OR4K3\_HUMAN Olfactory receptor 4K3 OS=Homo sapiens GN=OR4K3 PE=3 SV=3  
MAWSNQSAVTEFILRGLSSSLELQIFYFLFFSIVYAATVLGNLLIVVTIASEPHLHSPMY  
FLLGNLSFIDMSLASFATPKMIADFLREHK AISFEGCMTQMFFLHLLGGAEIVLLISMSF  
DRYVAICKPLHYLTMSRRMCVGLVILSWIVGIFHALSQAFTVNLPFCGPNEVDSFFCD  
LPLVIKLACVDTYILGVFMISTSGMIALVCFILLVISYTIILVTVRQRSSGGSSKALSTC  
SAHFTVVTLFFGPCFTIYVWPFTNFPIDKVL SVFYTIYTPLLNPVIYTVRNKDVKYSMRK  
LSSHIFKSRKTDHTP

>sp|Q8NGD5|OR4KE\_HUMAN Olfactory receptor 4K14 OS=Homo sapiens GN=OR4K14 PE=3 SV=1  
MDPQNYSLVSEFVLHGLCTSRHLQNFFFIFFFGVYVAIMLGNLLILVTVISDPC LHSSPM  
YFLLGNLAF LDMWLASFATPKMIRDFLSDQKLISFGGCMAQIFFLHFTGGAEMVLLVSMA  
YDRYVAICKPLHYMTLMSWQTCIRLVLASWVGVFVHSISQVAF TVNLPYCGPNEVDSFFC  
DLPLVIKLACMDTYVLGIIMISDSGLLSLSCFLLLLISYTVILLAIRQRAAGSTSKALST  
CSAHIMVVTLFFGPCIFVYVRPFSRFSVDKLLSVFYTIIFTPLLNP I IYTLRNEEMKAAMK  
KLQNRRTVFQ

>sp|Q8NGC6|OR4KH\_HUMAN Olfactory receptor 4K17 OS=Homo sapiens GN=OR4K17 PE=3 SV=3  
MEAMKLLNQSQVSEFILLGLTSSQDVEFLLFALFSVIYVTVLGNLLIIVTVFNTPNLNT  
PMYFLLGNLSFVDMTLASFATPKVILNLLKKQKVISFAGCFTQIFLLHLLGGVEMVLLVS  
MAFDRYVAICKPLHYMTIMNKKVCVLLVVT SWLLGLLHSGFQIPFAVNLPFCGPNVVDSI  
FCDLPLVTKLACIDIYFVQVIVANS GIISLSCFIILLISYSLILITIKNHSPTGQSKAR  
STLTAHITVVILFFGPCIFIYIWPFGNHSVDKFLAVFYTIITPILNP I IYTLRNKEMKIS  
MKKLWRAVNSREDT

>sp|Q8NGD0|OR4M1\_HUMAN Olfactory receptor 4M1 OS=Homo sapiens GN=OR4M1 PE=2 SV=1  
METANYTKVTEFVLTGLSQTREVQLVLFVIFLSFYLFILPGNIIICTIRLDPHLTSPMY  
FLLANLALLDIWYSSITAPKMLIDFFVERKII SFGGCIAQLFFLHFVGASEMFLLTVMAY  
DRYAAICRPLHYATIMNRLCCILVALSWMGGF IHSIIQVALIVRLPFCGPNELDSYFCD  
ITQVVRIACANTFPEELVMICSSGLISVVCFIALLMSYAFLLALLKKHSGSGENTNRAMS  
TCYSHITIVVLMFGPSIYIYARPFD SFLDKVVSVFHTVIFPLLNP I IYTLRNKEVKAAM

RKVVTKYILCEEK

>sp|Q8N0Y3|OR4N4\_HUMAN Olfactory receptor 4N4 OS=Homo sapiens GN=OR4N4 PE=2 SV=2  
MKIANNTVVTEFILLGLTQSQDIQLLVFVLILIFYLIILPGNFLIIFTIRSDPGLTAPLY  
LFLGNLAFLDASYSFIVAPRMLVDFLSEKKVISYRGCTQLFHLHFLGGEGLLLVMAF  
DRYIAICRPLHCSTVMNPRACYAMMLALWLGGFVHSIIQVVLILRLPFCGPNQLDNFFCD  
VRQVIKLACTDMFVVVELLMVFNSGLMTLLCFLGLLASYAVILCHVRAASEGKNKAMSTC  
TTRVIIILLMFGPAIFIYMCPRALPADKMVSLFHTVIFPLMNPMIYTLRNQEVKTSMKR  
LLSRHVVCQVDFIIRN

>sp|Q8NGL7|OR4P4\_HUMAN Olfactory receptor 4P4 OS=Homo sapiens GN=OR4P4 PE=3 SV=1  
MEKSNNSTLFILLGFSQKNIEVLCFVLFVLCYIAIWMGNLLIMISITCTQLIHQPMYFF  
LNYLSLSDLCYTSTVTPKLMVDLLAERKTISYNNCMIQLFTTHFFGGIEIFILTGMAYDR  
YVAICKPLHYTIIMSRQKNTIIIVCCTGGFIHSASQFLLTIFVPFCGPNEIDHYFCDVY  
PLLKLACSNIHMIGLLVIANSGLIALVTFVVLVLSYVFILYTIIRAYSAERRSKALATCSS  
HVIVVVLFFAPALFIYIRPVTTFSEDKVFALFYTIAPMPFNPLIYTLRNTEMKNAMRKVW  
CCQILLKRNLQF

>sp|Q8NGB4|OR4S1\_HUMAN Olfactory receptor 4S1 OS=Homo sapiens GN=OR4S1 PE=3 SV=1  
MGAKNNVTEFVLFGFLFESREMQHTCFVVFVLFHVLTVLGNLLVIITINARKTLKSPMYFF  
LSQLSFADICYPSTTIPKMIADTFVEHKIISFNGCMTQLFSAHFFGGTEIFLLTAMAYDR  
YVAICRPLHYTAIMDCRKCGLLAGASWLAGFLHSILQTLLTVQLPFCGPNEIDNFFCDVH  
PLLKLACADTYMGLIVVANSGMISLASFFILIIISYVILLNLRSQSSDDRRAVSTCGS  
HVITVLLVLMPPMFYIRPSTTLAADKLIILFNIVMPPLNPLIYTLRNNDVKAMRKLF  
RVKRSLGK

>sp|Q8NH73|OR4S2\_HUMAN Olfactory receptor 4S2 OS=Homo sapiens GN=OR4S2 PE=3 SV=2  
MEKINNTEFIFWGLSQSPEIEKVCVVFVSFFYIIILLGNLLIMLTVCLSNLFKSPMYFF  
LSFLSFVDICYSSVTAPKMIVDLLAKDKTISYVGCMLQLFGVHFFGCTEIFILTMAYDR  
YVAICKPLHYMTIMNRETCNKMLLGTWVGFLHSIIQVALVVQLPFCGPNEIDHYFCDVH  
PVLKLACTETYIVGVVVTANSGTIALGSFVILLISYSIILVSLRKQSAEGRRKALSTCGS  
HIAMVVIFFGPCTFMYMRPDTTFSEDKMVAVFYTIITPMLNPLIYTLRNAEVKNAMKKLW  
GRNVFLEAKG

>sp|Q96R09|OR5B2\_HUMAN Olfactory receptor 5B2 OS=Homo sapiens GN=OR5B2 PE=2 SV=3  
MENCTEVTKFILLGLTSVPELQIPLFILFTFIYLLTLCGNLGMMLLILMDSCLHTPMYFF  
LSNLSLVDFGYSSAVTPKVMAGFLRGDKVISYNACAVQMFFFVALATVENYLLASMAYDR  
YAAVCKPLHYTTMTASVGACLALGSYVCGFLNASFHIGGIFSLSFCKSNLVHHFFCDVP  
AVMALSCSDKHTSEVILVMSSFNIFFVLLVIFISYLFIFITILKMHSAGHQKALSTCA  
SHFTAVSVFYGTVIFIYLPSSSSHMDTDKMASVFYAMIIPMLNPVVYSLRNREVQNAFK  
KVLRRQKFL

>sp|A6NL26|OR5B1\_HUMAN Olfactory receptor 5B1 OS=Homo sapiens GN=OR5B1 PE=3 SV=1  
MENSTEVEFILLGLTDDPNLQIPLLLAFLFIYLLITLLGNGGMMVIIHSDSHLHTPMYFF  
LSNLSLVDLGYSSAVAPKTVAAALRSGDKAISYDCAAQFFFFVGFATVECYLLASMAYDR  
HAAVCRPLHYTTMTAGVCALLATGSYVSGFLNASIHAAGTFRLSFCGSNEINHFFCDIP  
PLLALSCSDTRISKLVVVFAGFNVFTLLVILISYFFICITIQRMHSAEGQKKVFSTCAS  
HLTALSIYFGTIIIFYLQPNSSQSVDTDKIASVFYTVVIPMLNPLIYSLRNKEVKSALWK  
ILNKLYPQY

>sp|Q8NGL3|OR5DE\_HUMAN Olfactory receptor 5D14 OS=Homo sapiens GN=OR5D14 PE=3 SV=1

MMVLRNLSMEPTFALLGFTDYPKLQIPLFLVFLLMYVITVVGNLGMIIIIKINPKFHPT  
MYFFLSHLSFVDFCYSSIVTPKLENLVMADKSIFYFSCMMQYFLSCTAVVTESFLLAVM  
AYDRFAICNPLLYTVAMSQRCLALLVAGSYLWGMFGPLVLLCYALRLNFSGPNVINHFF  
CEYTALISVSGSDILIPHLLLSFATFNEMCTLLIILTSYVFIFVTVLKIRSVSGRHKAF  
STWASHLTSITIFHGTLFLYCVPSKNSRQTVKVASVFYTVVNPMLNPLIYSLRNKDVK  
DAFWKLIHTQVPFH

>sp|095221|OR5F1\_HUMAN Olfactory receptor 5F1 OS=Homo sapiens GN=OR5F1 PE=2 SV=2  
MTRKNYTSLTEFVLLGLADTLELQIILFLFLVIYTLTVLGNLGMILLIRIDSQ LHTPMY  
FFLANLSFVDVCNSTITPKMLADLLSEKKTISFAGCFLQMYFFISLATTECILFGLMAY  
DRYAAICRPLLYSLIMSRTVYLKMAAGAFAGLLNFMVNTSHVSSLFCDSNVIHHFFCD  
SPPLFKLSCSDTILKESISSILAGVNIVGTLLVILSSYSYVLF SIFSMHSGEGRHRAFST  
CASHLTAIILFYATCIYTYLRPSSSYSLNQDKVASVFYTVVIPMLNPLIYSLRSKEVKKA  
LANVISRKRTSSFL

>sp|Q8NGV6|OR5H6\_HUMAN Olfactory receptor 5H6 OS=Homo sapiens GN=OR5H6 PE=2 SV=2  
MFLYLCFIFQRTCSEEMEEENATLLTEFVL TGFLHQPDCKIPLFLAFLVIYELITIMGNLG  
LIVLIWKDPHLHIPMYLFLGSLAFVDASLSSTVTPKMLINFLAKSKMISLSECMVQFFSL  
VTTVTTECFLLATMAYDRYVAICKALLYPVIMTNELCIQLLVLSFIGGLLHALIHEAFSF  
RLTFCNSNIIQHFYCDIIPLLKISCTDSSINFLMVIFAGSVQVFTIGTILISYTIILFT  
ILEKKSIGIRKAVSTCGAHLLSVSLYYGPLTFKYLGSASPQADDQDMMESLFYTVIVPL  
LNPMIYSLRNKQVIASFTKMFKSNV

>sp|Q8NH18|OR5J2\_HUMAN Olfactory receptor 5J2 OS=Homo sapiens GN=OR5J2 PE=3 SV=1  
MADDNFTVVTEFILLGLTDHAELKAVLFVVFLVIYAITLLRNLMILLIQITSKLHTPMY  
FLLSCLSFVDACYSSAIAPKMLVNLLVVKATISFSACMVQHLCFGVFITTEGFLLSV MAY  
DRYVAIVSPLLYTVAMSDRKCVELVTGSWIGGIVNTLIHTISLRRLSFCRLNAVSHFFCD  
IPSLKLKSCSDTSMNELL LTFSGVIAMATFLT V IISYIFIAFASLRHSASGRQQAFST  
CASHLTAVTIFYGT LIFS YIQPSSQYFVEQEKVSMFYTLGIPMLNLLIHSLRNKDVKEA  
VKRAIEMKHFLC

>sp|Q8NHB8|OR5K2\_HUMAN Olfactory receptor 5K2 OS=Homo sapiens GN=OR5K2 PE=2 SV=3  
MVEENHTMKNEFILTGTDHPELKTLLFVVFFAIYLVTVGNISLVALIFTHCRLHTPMY  
IFLGNLALVDSCCACAITPKMLENFFSEGKRISLYECAVQFYFLCTVETADCFLLAAVAY  
DRYVAICNPLQYHIMMSKKLCIQMTTGAFIAGNLHSMIHVGLVFRLVFCGLNHINHFYCD  
TLPLYRLSCVDPFINELVLFIFSGSVQVFTIGSVLISYLYILLTIFRMKSKEGRAKAFST  
CASHFSSVSLFYGSIFFLYIRPNLLEEGNDIPAAILFTIVVPLLNPFIYSLRNKEVISV  
LRKILLKIKSQGSVNK

>sp|A6NMS3|OR5K4\_HUMAN Olfactory receptor 5K4 OS=Homo sapiens GN=OR5K4 PE=3 SV=1  
MARENHSLAAEFILIGFTNYPELKTLFVVVFS AIYLVTVGNLGLVALIYVERRLLTPMY  
IFLGNLALMDSCSCAVTPKMLENFFSEDRIISLYECMAQFYFLCLAETDTCFLLATMAY  
DRYVAICHPLQYHTMMSKTL CIRMTTGAFKAGNLHSMIHVGLLLRLTFCRSNKIHHFFCD  
ILPLYRLSCTDPSINELMIYIFSIP IQIFTIATVLISYLCILLTVFKMKSKEGRGKAFST  
CASHFLSVSIFYICLLMYIGPSEEGDKDTPVAIFYAIVIPLLNPFIYSLRNKEVINVLKK  
IMRNYNILKQTCSIANLFLIY

>sp|Q8NGL2|OR5L1\_HUMAN Olfactory receptor 5L1 OS=Homo sapiens GN=OR5L1 PE=2 SV=1  
MGKENCTVAEFILLGLSDVPEL RVCLFLLFLLIYGV TLLANLGMIALIQVSSRLHTPMY  
FFLSHLSSVDFCYSSIIVPKMLANIFNKDKAISFLGCMVQFYLFCTCVVTEVFLLAVMAY

DRFVAICNPLLYTVTMSWKVRVELASCCYFCGTVCSLIHLCLALRIPFYRSNVINHFFCD  
LPPVLSLACSDITVNETLLFLVATL NESVTIMIILTSYLLILTTILKMGS AGRHKAFST  
CASHLTAITVFHGTVLSIYCRPSSGSGDADKVATVFYTVVIPMLNSVIYSLRNKDVKEA  
LRKVMGSKIHS

>sp|Q8NG75|OR5T1\_HUMAN Olfactory receptor 5T1 OS=Homo sapiens GN=OR5T1 PE=2 SV=1  
MSGLPDMDLYKLQLNNFTEVTMFILISFTEEDVQVFLFLLFLAIYLF TLIGNLGLVVP  
IIGDFWLHSPMYYFLGVLSFLDVCYSTVVT PKMLVNFLAKNKSISFLGCATQMFLACTFG  
TTECFLLAAMAYDRYVAIYNPLLYSVSMSPRVYVPLITASYVASILHATIHTVATFSLSF  
CGSNEIRHVF CNMPLLAIISCDTHVIQLLFFYFVGSIEIVTILIVLISYGFILLAILKM  
QSAEGRRKVFSTCGAHLTGVTIYHGTILFMYVRPSSSYTSDNDMIVSIFYTIVIPMLNPI  
IYSLRNKDVKEAIKRLLVRNWFINKL

>sp|Q8NH69|OR5W2\_HUMAN Olfactory receptor 5W2 OS=Homo sapiens GN=OR5W2 PE=3 SV=1  
MDWENCSSLTDFLLGITNNPEMKVTLFAVFLAVYIINFSANLGMIVLIRMDYQLHTPMY  
FFLSHLSFCDLCYSTATGPKMLVDLLAKNKSIPFYGCALQFLVFCIFADSECLLSVMAF  
DRYKAIINPLLYTVNMSSRVCYLLLTGVYLVGIADALIHMTLAFRLCFCGSNEINHFFCD  
IPPLLLLSRSDTQVNELVLF TVFGFIELSTISGVFISYCYIILSVLEIHS AGRFKALST  
CTSHLSAVAIFQGTLLFMYFRPSSSYSLDQDKMTSLFYTLVVPMLNPLIYSLRNKDVKEA  
LKKLKNKILF

>sp|Q6IFH4|OR6B2\_HUMAN Olfactory receptor 6B2 OS=Homo sapiens GN=OR6B2 PE=2 SV=2  
MSGENVTKVSTFILVGLPTAPGLQYLLFLLFLLTYL FVLVENLAIILIVWSSTSLHRPMY  
YFLSSMSFLEI WYVSDITPKMLEGFLQKQRISFVGCMTQLYFFSSLVCTECVLLASMAY  
DRYVAICHPLRYHVLVTPGLCLQLVGFSFVSGFTISMIKVCFISSVTF CGSNVLNHFFCD  
ISPILKLACTDFSTAELVDFILAFIILVFP LLATILSYWHITLAVLRIPSATGCWRAFST  
CASHLTVVTVFYTALLFMYVRPQAIDSQSSNKLISAVYTVVTPIINPLIYCLRNKEFKDA  
LKKALGLGQTS

>sp|A6NF89|OR6C6\_HUMAN Olfactory receptor 6C6 OS=Homo sapiens GN=OR6C6 PE=3 SV=1  
MKNKSMEIEFILLGLTDDPQLQIVIFLFLN YTL SLMGNLIIIIILTLDPRLKTPMYFF  
LRNFSFLEVI FTTCIPRFLITIVTRDKTISYNNCATQLFFILLPGVTEFYLLAAMS YDR  
YVAICKPLHYPIIMSSKVCYQLVLSWVTGFLIIFPPLVMGLKLD CASKTIDHMCETS  
PILQISCTDTHVLEMSFTLAVVTLVVTLVVLVILSYTCIIKTILKFSSAQQRNKAFSTCT  
SHMIVVSMTYGSCIFMYIKPSAKERVT VSKGVALLYTSIAPLLNPF IYTLRNQQVKEVFW  
DVLQKNLCFSKRPF

>sp|Q8NGM8|OR6M1\_HUMAN Olfactory receptor 6M1 OS=Homo sapiens GN=OR6M1 PE=2 SV=1  
MGNWSTVTEITLIAFPALLEIRISL FVVLVVTYTLTATGNITIIISLIWIDHRLQTPMYFF  
LSNLSFLDILYTTVITPKLLACLLGEEKTISFAGCMIQTYFYFFLGTVEFILLAVMSFDR  
YMAICDPLHYTVIMNSRACLLLVLCWVGAFLSVLFPTIVVTRLPYCRKEINHFFCDIAP  
LLQVACINTHLIEKINFLLSALVILSSLAFTTGSYVYIISTILRIPSTQGRQKAFSTCAS  
HITVVSIAHGSNIFVYVRPNQNSSLDYDKVA AVLITVVTPLLNPFIYSLRNEKVQEV LRE  
TVNRIMTLIQRKT

>sp|Q8NG98|OR7D4\_HUMAN Olfactory receptor 7D4 OS=Homo sapiens GN=OR7D4 PE=2 SV=1  
MEAENLTELKFLLLGLSDDPELQPVLFGLFLSMYLVTVLGNLLIILAVSSDSHLHTPMY  
FFLSNLSFVDICFISTTVPKMLVSIQARSKDISYMGCLTQVYFLMMFAGMDTFLAVMAY  
DRFVAICHPLHYTVIMNPCLGLLVLASWFIIFWFSLVHILLMKRLTFSTGTEIPHFFCE  
PAQVLKVACSNTLLNNIVLYVATALLGVFPVAGILFSYSQIVSSLMGMSSTKGKYKAFST

CGSHLCVVSLFYGTGLGVYLSSAVTHSSQSSSTASVMYAMVTPMLNPFYISLRNKDKVGA  
LERLLSRADSCP

>sp|Q8WVF1|OSCP1\_HUMAN Protein OSCP1 OS=Homo sapiens GN=OSCP1 PE=1 SV=4

MSVRTLP LLFLNLGGEMLYILDQRLRAQNI PGDKARKDEWTEVDRKRVLNDIISTMFNRK  
FMEELFKPQELYSKKALRTVYERLAHASIMKLNQASMDKLYDLMTMAFKYQVLLCPRPKD  
VLLVTFNHLDTIKGFIRDSPTILQQVDETLRQLTEIYGGLSAGEFQLIRQTLLIFFQDLH  
IRVSMFLKDKVQNNNGRFVLPVSGPVPWGTEVPGLIRMFNNKGEEVKRIEFKHGGNYVPA  
PKEGSFELYGDRVLKLTNMYSVNPVETHVSGSSKNLASWTQESIAPNPLAKEELNFLA  
RLMGMEIKKPSGPEPGFRLNLFTTDEEEQAALTRPEELSYEVINIQTQDQQRSEELA  
RIMGEFEITEQRLSTSKGDDLAMMDEL

>sp|P22059|OSBP1\_HUMAN Oxysterol-binding protein 1 OS=Homo sapiens GN=OSBP PE=1 SV=1

MAATELRGVVGPAAIAALGGGAGPPVVGSGGRGDAGPGSGAASGTVVAAGGPGP  
GAGGVAAAGPAPAPPTGGSGSGAGGSGSAREGWLFKWTNYIKGYQRRWFVLSNGLLSYY  
RSKAEMRHTRCGTINLATANITVEDSCNFIISNGGAQTYHLKASSEVERQRWVTALELAK  
AKAVKMLAESDESGDEESVSQTDKTELQNTLRTLSSKVEDLSTCNDLIAKHGTALQRSLS  
ELESCLKPAESNEKIKQVNERATLFRITSNAMINACRDFLMLAQTHSKKWQKSLQYERDQ  
RIRLEETLEQLAKQHNHLERAFRGATVLPANTPGNVGSGKDQCCSGKGDMSDEDDENEFF  
DAPEIITMPENLGHKRTGSNISGASSDISLDEQYKHQLEETKKEKRTRIPYKPNYSLNLW  
SIMKNCIGKELSKIPPVNFNEPLSMLQRLTEDLEYHELLDRAAKCENSLEQLCYVAAFT  
VSSYSTTVFRTSKPFNP LLGETFELDRLEENGYSRLCEQVSHHPAAAHHAESKNGWTLR  
QEIKITSKFRGKYL SIMPLGTIHCIFHATGHHTWKKVTTTVHNIIVGKLWIDQSGEIDI  
VNHKTGDKCNLKFVPYSYFSRDVARKVTGEVTDPSGKVHFALLGTWDEKMECFKVQPVIG  
ENGGDARQRGHEAESRVMLWKRNP LPKNAENMYFSELALTLNAWESGTAPTDSRLRPD  
QRLMENGRWDEANA EKQRLEEKQRLSRKKREAEAMKATEDGTPYDPYKALWFERKKDPVT  
KELTHIYRGEYWECKEKQDWSSCPDIF

>sp|Q9NRP0|OSTC\_HUMAN Oligosaccharyltransferase complex subunit OSTC OS=Homo sapiens  
GN=OSTC PE=1 SV=1

METLYRVPFLVLECPNLK LKPPWLHMP SAMTVYALVVVS YFLITGGIIYDVIVEPPSVG  
SMTDEHGHQRPVAF LAYRVNGQYIMEGLASSFLFTMGGLGFII LDRSNAPNIPKLNRFLL  
LFIGFVCVLLSFFMARVFMRMKLPGYLMG

>sp|Q86WC4|OSTM1\_HUMAN Osteopetrosis-associated transmembrane protein 1 OS=Homo sapiens  
GN=OSTM1 PE=1 SV=1

MEPGPTAAQRRC SLPPWLPLGLLLW SGLALGALPFGSSPHRVFHDLLSEQQLLEVEDLSL  
SLLQGGLGPLSLPPDLPDLDEPCRELLDFANSSAELTGCLVRSARPVRLCQTCYPLFQ  
QVVS KMDNISRAAGNTSESQSCARSLLMADRMQIVVILSEFFNTTWQEANCANCLTNNSE  
ELSNSTVYFLNLFNHTLTCFEHNLQGNAHSL LQTKNYSEVCKNCREAYKTLSSLYSEM QK  
MNELENKAEPGTHLCIDVEDAMNITRKLWSRTFNCSVPCSDTVPVIAVS VFILFLPVV FY  
LSSFLHSEQKKRKLILPKRLKSSTSFANIQENS

>sp|Q5VV17|OTUD1\_HUMAN OTU domain-containing protein 1 OS=Homo sapiens GN=OTUD1 PE=1 SV=1

MQLYSSVCTHYPAGAPGPTAAAPAPPA AATPFKVS LQPPGAAGAAPEPETGECQAAAAE  
HREAAAVPAAKMPAFSSCFEVVSGAAAPASAAAGPPGASCKPPLPPHYTSTAQITVRALG  
ADRL LLHGPDVPGAAGSAAAPRGRC LLAPAPAAPVPPRRGSSAWLLEELLRPDCPEPA  
GLDATREGPDNRFLSEHRQALAAAKHRGPAATPGSPDPGPGPWGEEHLAERGPRGWERG  
GDRC DAPGGDAARRPDPEAEAPPAGSIEAAPSSAAEPVIVSRSDPRDEKLALYLA EVEKQ

DKYLRQRNKYRFHIIIPDGNCLYRAVSKTVYGDQSLHRELREQTVHYIADHLDHFSPLIEG  
DVGEFIIAAAQDGAWAGYPELLAMGQMLNVNIHLTTGGRLESPTVSTMIHYLGPEDSLRP  
SIWLSWLSNGHYDAVFDHSYPNPEYDNWCKQTQVQRKRDEELAKSMAISLSKMYIEQNAC  
S

>sp|P32243|OTX2\_HUMAN Homeobox protein OTX2 OS=Homo sapiens GN=OTX2 PE=1 SV=1

MMSYLKQPPYAVNGLSLTSGMDLLHPSVGYPATPRKQRRERTTFTRAQLDVLEALFAKT  
RYPDIFMREEVALKINLPESRVQVWFKNRRRAKCRQQQQQQNGGQNKVRPAKKKTSPARE  
VSSESGTSGQFTPPSSTSVPTIASSSAPVSIWSPASISPLSDPLSTSSSCMQRSYPMTYT  
QASGYSQGYAGSTSYFGMDCGSYLTPMHHQLPGPGATLSPMGTAVTSHLNQSPASLST  
QGYGASSLGFNSTTDCLDYKDQTASWKLNFNADCLDYKDQTSSWKQVFL

>sp|Q8IYS1|P20D2\_HUMAN Peptidase M20 domain-containing protein 2 OS=Homo sapiens  
GN=PM20D2 PE=1 SV=2

MRPGGERPVEGGACNGRSELELLKLRSAECIDEAAERLGALSRAIWSQPELAYEEHHAHR  
VLTHFFEREPPAASWAVQPHYQLPTAFRAEWEPPEARAPSATPRPLHLGFLCEYDALPGI  
GHACGNLIAEVGAAAAALGVRGALEGLPRPPPPVKVVVLGTPAEEDGGGKIDLIEAGFT  
NLDVVFMAHPSQENAAAYLPDMAEHDVTVKYKGASHSASYPWEGNLDAAVLAYNNLSV  
FRQQMKPTWRVHGIIKNGGVKPNIIPSYSELIYYFRAPSMKELQVLTKKAEDCFRAAALA  
SGCTVEIKGGAHDYNNVLPNKSLLWKAYMENGRKLGIEFISEDMLNGPSGSTDFGNVSFV  
VPGIHPYFHIGSNALNHTEQYTEAAGSQEAQFYTLRTAKALAMTALDVIFKPELLEGIRE  
DFKLKLQEEQFVNAVE

>sp|Q06190|P2R3A\_HUMAN Serine/threonine-protein phosphatase 2A regulatory subunit B''  
subunit alpha OS=Homo sapiens GN=PPP2R3A PE=1 SV=1

MAATYRLVVSTVNHYSSVVIDRRFEQAIHYCTGTCHTFTHGIDCIVVHHSVCADLLHIPV  
SQFKDADLNSMFLPHENGLSSAEGDYPQQAFTGIPRVKRGSTFQNTYNLKDIAGEAISFA  
SGKIKEFSFEKLKNSNHAAYRKGRKVKSDSFNRRSVLDLLCGHYNNDGNAPSFGLLRSS  
SVEEKPLSHRNSLDNLTSMFLQNFSEEDLVTQILEKHKIDNFSSGTDIKMCLDILLKCS  
EDLKKCTDIIKQCIKKKSGSSISEGSGNDTISSETVYMNVMTRLASYLKKLPFEFMQSG  
NNEALDLTELISNMPSLQLTPFSPVFGTEQPPKYEDVVQLSASDSGRFQTIELQNDKPNS  
RKMDTVQSIPNNSTNSLYNLEVNDPRTLKAVQVQSLSLTMNPLENVSSDDLMEPLYIEEE  
SDGKKALDKGQKTENGPSHELLKVNEHRAEFPEHATHLKKCTPMQNEIGKIFEKSFVNL  
PKEDCKSKVSKFEEGDQRDFTNSSSQEIDKLLMDLESFSQKMETSREPLAKGKNSNFL  
NSHSQLTGQTLVDLEPKSKVSSPIEKVSPSCLTRIETNGHKIEEDRALLLRILESIED  
FAQELVECKSSRGSLSQEKEMQILQETLTTSSQANLSVCRSPVGDKAKDTTSAVLIQQT  
PEVIKIQNKPEKKPGTLPPLPATSPSSPRPLSPVPHVNNVNAPLSINIPRFYFPEGLPD  
TCSNHEQTLRSIETAFMDIEEQKADIYEMGKIAKVCGCPLYWKAPMFRAAGGEKTGFVTA  
QSFIAMWRKLLNNHDDASKFICLLAKPNCSSLEQEDFIPLLQDVVDTHPGLTFLKDAPE  
FHSRYITTVIQRIFYTVNRWSGKITSTEIRKSNFLQTLALLEEEEDINQITDYFSYEHF  
YVIYCKFWELDTDHLYISQADLSRYNDQASSRIIERIFSGAVTRGKTIQKEGRMSYAD  
FVWFLISEEDKRNPTSIEYWFRCMDVDGDGVLSMYELEYFYEEQCERMEAMGIEPLPFHD  
LLCQMLDLVKPAVDGKITLRLDKRCRMAHIFYDTFFNLEKYLDHEQRDPFAVQKDVENDG  
PEPSDWRFAAEEYETLVAEESAQAQFQEGFEDYETDEPASPSEFGNKSNIKLSASLPEK  
CGKLQSVDEE

>sp|O15547|P2RX6\_HUMAN P2X purinoceptor 6 OS=Homo sapiens GN=P2RX6 PE=1 SV=2

MCPQLAGAGSMGSPGATTGWGLLDYKTEKYVMTRNWRVGALQRLQFGIVVYVVGWALLA

KKGYQERDLEPQFSIIITKLKGSVSTQIKELGNRLWDVADFVKPPQGENVFFLVNTNFLVTP  
AQVQGRCEHPSVPLANCWVDEDCPEGEGGTHSHGVKTGGCVVFNGTHRTCEIWSWCPVE  
SGVVPSPRLLAQANFTLFIKNTVTFSKFNFSKSNALETWDPTYFKHCRYEPQFSPYCPV  
FRIGDLVAKAGGTFEDLALLGGSVGIRVHWDCLDTGDSGCWPHYSFQLQEKSYNFRTAT  
HWEQPGVEARTLLKLYGIRFDILVTGQAGKFGLIPTAVTLGTGAAWLGVVTFCDLLLL  
YVDREAHFYWRTRYEEAKAPKATANSVWRELALASQARLAELRRSSAPAPTATAAGSQT  
QTPGWPCSSDTHLPTHSGSL

>sp|P51582|P2RY4\_HUMAN P2Y purinoceptor 4 OS=Homo sapiens GN=P2RY4 PE=1 SV=1

MASTESSLLRSLGLSPGPGSSEVELDCWFEDEDFKFILLPVSYAVVFVLGLGLNAPTLWLF  
IFRLRPWDATATYMFHLALSDTLVLSLPTLIYYAAHNHWPFGTEICKFVRFLFYWNLY  
CSVLFLTCISVHRYLGICHPLRALRWGRPRLAGLLCLAVWLVAAGCLVPNLFFVTTSNKG  
TTVLCHDTRPEEFDHVVFSSAVMGLLFGVPCLVTLVCYGLMARRLYQPLPGSAQSSSR  
LRSLRTIAVVLTVFAVCFVPFHITRTIYYLARLLEADCRVLNIVNVVYKVRPLASANS  
LDPVLYLLTGDKYRRQLRQLCGGKQPRTAASSLALVSLPEDSSCRWAATPDSSCSTP  
RADRL

>sp|Q8IVL6|P3H3\_HUMAN Prolyl 3-hydroxylase 3 OS=Homo sapiens GN=P3H3 PE=1 SV=1

MLRLLRPLLLLLLLLLPPGSPPEPGLTQLSPGAPPQAPDLLYADGLRAYAAGAWAPAVALL  
REALRSQAALGRVRLDCGASCAADPGAALPAVLLGAPEPDSGPGPTQGSWERQLLRAALR  
RADCLTQCAARRLPGGAARLRVGSALRDAFRRREPYNYLQRAYYQLKKLDAAAAAHTF  
FVANPMHLQMREDMAKYRRMSGVRPQSFRDLETPPHWAAAYDTGLELLGRQEAGLALPRLE  
EALQGSQAQMESCRADCEGPEEQGAEEEEEDGAASQGGLYEAIAGHWIQVLQCRQRCVGE  
TATRPGRSFPVPDFLPNQLRRLHEAHAQVGNLSQAIENVLSVLLFYPEDEAAKRALNQQYQ  
AQLGEPRPGLGPREDIQRFILRSLGEKRQLYAMEHLGTSFKDPDPWTPAALIPEALREK  
LREDQEKRPWDHEPVKPKLTYWKDVLLLEGVTLTQDSRQLNGSERAVLDGLLTPAECGV  
LLQLAKDAAGAGARSGYGRRSPTPHERFEGLTVLKAAQLARAGTVGSQGAKLLLEVSE  
RVRTLTAQYFSPERPLHLSFTHLVCRSAIEGEQEQRMDLSHPVHADNCVLDPDTGECWRE  
PPAYTYRDYSGLLYLNDDFQGGLFFTEPNALTVTARVRPRCGRLVAFSSGVENPHGVWA  
VTRGRCALALWHTWAPEHREQEWEAKELLQESQEEEEEEEEEMPSKDPSPPEPSRRHQ  
RVQDKTGRAPRVREEL

>sp|Q15102|PA1B3\_HUMAN Platelet-activating factor acetylhydrolase IB subunit gamma  
OS=Homo sapiens GN=PAFAH1B3 PE=1 SV=1

MSGEENPASKPTPVQDVQGDGRWMSLHHRFVADSKDKEPEVVFIGDSLVLQMHQCEIWRE  
LFSPLHALNFGIGDGTQHVLWRLNGELEHIRPKIVVVWGTNNHGHTAEQVTGGIKAI  
VQLVNERQPQARVVVLGGLPRGQHPNPLREKNRQVNELVRAALAGHPRAHFLDADPGFVH  
SDGTISHHDMYDYLHLSRLGYTPVCRALHSLLLRLLAQDQGGAPLLEPAP

>sp|P04054|PA21B\_HUMAN Phospholipase A2 OS=Homo sapiens GN=PLA2G1B PE=1 SV=3

MKLLVLAVLLTVAADSGISPRAVWQFRKMIKCVIPGSDPFLEYNNYGCYGLGSGTPV  
DELDKCCQTHDNCYDQAKKLDSCFKLLDNPYTHYTSYSCSGSAITCSSKNKECEAFICNC  
DRNAAICFSKAPYNKAHKNLDTKKYCQS

>sp|Q9UQ80|PA2G4\_HUMAN Proliferation-associated protein 2G4 OS=Homo sapiens GN=PA2G4 PE=1  
SV=3

MSGEDEQQEQTIAEDLVVTYKMGGDIANRVLRLSLVEASSGSVLSLCEKGDAMIMEET  
GKIFKKEKEMKKGIAPFPTSISVNNCVCHFSPLKSDQDYILKEGDLVKIDLGHVHVDGFAN  
VAHTFVVDVAQGTQVTGRKADVIAAHLCAEALRLVKPGNQNTQVTEAWNKAHSFNCT

PIEGLMLSHQLKQHVIDGEKTI IQNPTDQQKKDHEKAEFEVHEVYAVDVLVSSGEGKAKDA  
GQRTTIYKRDPKQYGLKMKTSRAFFSEVERRFDAMPFTLRAFEDEKKARMGVVECAKHE  
LLQPFNVLYEKEGEFVAQFKFTVLLMPNGPMRITSGPFEPDLYKSEMEVQDAELKALLQS  
SASRKTQKKKKKKASKTAENATSGETLEENEAGD

>sp|Q9UNK4|PA2GD\_HUMAN Group IID secretory phospholipase A2 OS=Homo sapiens GN=PLA2G2D  
PE=1 SV=2

MELALLCGLVVMAGVPIQGGILNLNKMVKQVTGKMPILSYWPYGCHCGLGGRGQPKDAT  
DWCCQTHDCCYDHLKTQGC SIKYDYRYNFSQGNIHCSDKGSWCEQQLCACDKEVAFCLK  
RNLDITYQKRLRFYWRPHCRGQTPGC

>sp|Q9Y2J8|PADI2\_HUMAN Protein-arginine deiminase type-2 OS=Homo sapiens GN=PADI2 PE=1  
SV=2

MLRERTVRLQYGSRVEAVYVLGTYLWTDVYSAAPAGAQTFSCLKHSEHVWVEVVRDGEAEE  
VATNGKQRWLLSPSTTLRVMTSQASTEASSDKVTVNYYDEEGSIPIDQAGLFLTAIEISL  
DVDADRDGVVEKNNPKASWTWPEGQGAILLVNCRETPWLPKEDCRDEKVSKEDELDK  
MSQMILRTKGPDRLPAGYEIVLYISMSDSKVGVFYVENPFFGQRYIHILGRRKLYHVVK  
YTGGS AELLFFVEGLCFPDGFSGLVSIHVS LLEYMAQDIPLTPIFTDTVIFRIAPWIMT  
PNILPPVS VVFCMKDNYLFLKEVKNLVEKTNCELKVC FQYLNRGDRWIQDEIEFGYIEA  
PHKGFPPVLDSPRDGNLKD FPKELLGPDFGYVTREPLFESVTS LDSFGNLEVSPPTVN  
GKTYPLGRILIGSSFPLSGGRRMTKVVRDFLKAQQVQAPVELYSDWLT VGHVDEFMSFVP  
IPGTTKFLLLMASTAC YKLFREKQKDGHEAIMFKGLGGMSSKRITINKILSNESLVQE  
NLYFQRCLDWNDRILK KELGLTEQDIIDL PALFKMEDHRRARAFFPNMVNMIVLDKDLGI  
PKPFGPQVEEECCLEMHVRGLLEPLGLECTFIDDISAYHKFLGEVHCGTNVRRKPFTFKW  
WHMVP

>sp|Q9UM07|PADI4\_HUMAN Protein-arginine deiminase type-4 OS=Homo sapiens GN=PADI4 PE=1  
SV=2

MAQGTILIRVTPEQPTHAVCVLGTLTQLDICSSAPEDCTSFSINASPGVVVDIAHGPPAKK  
KSTGSSTWPLDPGVEVTLTMKVASGSTGDQKVQISYYGPKTPPVKALLYLTGVEISLCAD  
ITRTGKVKPTRAVKDQRTWTWGPCGQGAILLVNCDRDNLESSAMDCEDDEVLDSEDLQDM  
SLMTLSTKTPKDFFTNHTLV LHVARSEMDKVRVFQATRGLSSKCSVVLGPKWPSHYLMV  
PGGKHNMDFYVEALAFPD TDFPLITLTISLLDTSNLELPEAVVFQDSV VFRVAPWIMTP  
NTQPPQEYVYACSI FENEDFLKSVTTLAMKAKCKLTICPEEENMDDQW MQDEMEIGYI QAP  
HKTLPVVFDSPRNRGLKEFPIKRVMPDFGYVTRGPQTGGISGLDSFGNLEVSPPTVRG  
KEYPLGRILFGDSCYPSNDSRQMHQALQDFLSAQQVQAPVKLYSDWLSVGHVDEFLSFVP  
APDRKGFRLLLASPRSCYKLFQEQQNEGHEALLFEGIKKKKQKIKNILSNKTLREHNS  
FVERCIDWNRELLKRELGLAESDIIDIPQLFKLKEFSKAEAFFPNMVNMLVLGKHLGIPK  
PFGPVINGRCCEELKVC SLLEPLGLQCTFINDFFTYHIRHGEVHCGTNVRRKPF SFKWWN  
MVP

>sp|P09466|PAEP\_HUMAN Glycodelin OS=Homo sapiens GN=PAEP PE=1 SV=2

MLCLLLTLGVALVCGVPAMDIPQTKQDLELPKLAGTWSMAMATNNISLMATLKAPLRVH  
ITSLLPTPEDNLEIVLHRWENNSCVEKKVLGEKTENPKKFKINYTVANEATLLD TDYDNF  
LFLCLQD TTTPIQSMQCYLARVLVEDDEIMQGFIRAFRPLPRHLWYLLDLKQMEEP CRF

>sp|Q15004|PAF15\_HUMAN PCNA-associated factor OS=Homo sapiens GN=KIAA0101 PE=1 SV=1

MVRTKADSVPGTYRKVVAARAPRKVLGSSTSATNSTSVSSRKAENKYAGGNPVCVRPTPK  
WQKGIGEFFRLSPKDSEKENQIPEEAGSSGLGAKRKCACPLQPDHTNDEKE



>sp|Q8N7H5|PAF1\_HUMAN RNA polymerase II-associated factor 1 homolog OS=Homo sapiens  
GN=PAF1 PE=1 SV=2

MAPTITQTAQREDGHRPNSHRTLPERSGVVCVRKYCNSLPDIPFDPKFITYPFDQNRVQ  
YKATSLEKQHKHDLLETPDLGVTIDLINPDYRIDPNVLLDPADEKLLLEEIQAPTSSKR  
SQQHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVSVKQQFTEEEIYKDRDSQITAIE  
KTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFSDPAPKDTSGAAALEM  
MSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRQDEEEMDYAPDDVYDYKIAREYNWNVK  
NKASKGYEENYFFIFREGDGVYNELETRVRLSKRRAGVQSGTNALLVVKHRDMNEKE  
LEAQEARKAQLNHEPEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESER  
EEGDRDEASDKSGSEDESEDEARAARDKEEIFGSDADSEDDADSDDEDRGQAQGGSDN  
DSDSGSNGGQSRSHRSASPFPSGSEHSAQEDGSEAAASDSSEADSDSD

>sp|Q7Z2X7|PAGE2\_HUMAN P antigen family member 2 OS=Homo sapiens GN=PAGE2 PE=1 SV=1

MSELLRARSQSSERGNQESSQPVGSVIVQEPTTEKRQEEEPPTDNQGIAPSGEIQAV  
PAFQGPDMQAFQELALLKIEDEPGDPVREGIMPTFDLTKVLEAGDAQP

>sp|Q08J23|NSUN2\_HUMAN tRNA (cytosine(34)-C(5))-methyltransferase OS=Homo sapiens  
GN=NSUN2 PE=1 SV=2

MGRSRGRRLQQQRPEDAEDGAEGGGRGEAGWEGGYPEIVKENKLFHYHQELKIVPE  
GEWQQFMDALREPLPATLRITGYKSHAKEILHCLKNKYFKELEDLEVDGQKVEVPQPLSW  
YPEELAWHTNLSRKILRKSPHLEKFHQFLVSETESGNISRQEAVSMIPLLLNVPHHKI  
LDMCAAPGSKTTQLIEMLHADMNVPFPEGFVIANDVDNKRCLLVHQAQRLSSPCIMVVN  
HDASSIPRLQIDVGRKEILFYDRILCDVPCSGDGTMRKNIDVKKWTTLSLQLHGLQL  
RIATRGAEQLAEGGRMVYSTCSLNPIDEAVIASLLEKSEGALELADVSNELPGLKWMPG  
ITQWKVMTKDGQWFTDWDVAPHSRHTQIRPTMFPPKDPEKLQAMHLERCLRILPHHQNTG  
GFFVAVLVKKSSMPWNKRQPKLQGKSAETRESTQLSPADLTEGKPTDPSKLESPSFTGTG  
DTEIAHATEDLENNGSKKDGVCGPPPSKKMKLFGFKEDPFVFIPEDDPLFPPIEFYALD  
PSFPRMNLTRTTEGKKRQLYMSKELRNVLLNNEKMKVINTGIKWCRNNSGEEFDCA  
FRLAQEGITYLTPFINSRIITVSMEDVKILLTQENPFRKLSSETYSQAKDLAKGSIVLK  
YEPDSANPDALQCPIVLCGWRGKASIRTFVPKNERLHYLRMMGLEVLGEKKKEGVILTNE  
SAASTGQPDNDVTEGQRAGEPNSPDAEEANSPDVTAGCDPAGVHPPR

>sp|Q96P11|NSUN5\_HUMAN Probable 28S rRNA (cytosine-C(5))-methyltransferase OS=Homo sapiens  
GN=NSUN5 PE=1 SV=2

MGLYAAAAGVLAVGESRQSGSIKGLVYSSNFQNVKQLYALVCETQRYSAVLDAVIASAGLL  
RAEKKLRPHLAKVLVYELLGKGFRGGGRWKALLGRHQARLKAELARLKVHRGVSARNED  
LLEVGSRPGPASQLPRFVRVNTLKTCSDDVVDYFKRQGFYSYQGRASSLDDLALKGKHFL  
LDPLMPELLVFPAQTDLHEHPLYRAGHLILQDRASCLPAMLLDPPPGSHVIDACAAPGNK  
TSHLAALLKNQGKIFAFDLDAKRLASMATLLARAGVSCCELAEDFLAVSPSDPRYHEVH  
YILLDPSCSGSGMPSRQLEEPGAGTPSPVRLHALAGFQQRALCHALTFFSLQRLVYSTCS  
LCQEENEDVVRDALQQNPGAFRLAPALPAWPHRGLSTFPGAELCLASPETTLSSGFFVA  
VIERVEVPR

>sp|Q8TCD5|NT5C\_HUMAN 5' (3')-deoxyribonucleotidase, cytosolic type OS=Homo sapiens  
GN=NT5C PE=1 SV=2

MARSVRVLVMDGVLADFEAGLLRGFRRRFPEEPHVPLEQRRGFLAREQYRALRPDLADK  
VASVYEAPGFFLDLEPIPGALDAVREMNDLPDTQVFICTSPLLKYHHCVGKEYRWVEQHL  
GPQFVERIILTRDKTVVLGDLLIDDKDTPVRGQEETPSWEHILFTCCHNRHLVLPPTRRRL

LSWSDNWREILDSKRGAQRE

>sp|Q86UY8|NT5D3\_HUMAN 5'-nucleotidase domain-containing protein 3 OS=Homo sapiens  
GN=NT5DC3 PE=1 SV=1

MTMAAAAVVARGAGARAATAAALRGCGTAARGPCAGPARPLCTAPGTAPDMKRYLWER  
YREAKRSTEELVPSIMSNLLNPDAIFSNNEMSLSDIEIYGFDDYTLVFYSKHLHTLIFN  
AARDLLINEHRYPAEIRKYEYDPNFAIRGLHYDVQRAVLMKIDAFHYIQLGTVYRGLSVV  
PDEEVIEMEGSHVPLEQMSDFYKGSSHGNTMKQFMDIFSLPEMTLLSCVNEYFLKNNID  
YEPVHLYKDVKDSIRDVHIKIMYRAIEADIEKYICYAEQTRAVLAKLADHGKKMFLITN  
SPSSFVDKGMSYIVGKDWRDLFDVVIQAEKPNFFNDKRRPFRKMNEKGVLWDKIHKLQ  
KGQIYKQGNLYEFLKLTGWRGSRVLYFGDHIYSDLADLTCLKHGWRGTGAIPELRSSELKIM  
NTEQYIQTMTWLQTLTGLLEQMQRDAESQLVLQEWKKERKEMREMTKSFFNAQFGSLF  
RTDQNPITYFLRRLSRFADIYMASLSCLLNVDVSHTFYPRRTPLQHELPAWSERPPTFGTP  
LLQEAQAK

>sp|Q96AB6|NTAN1\_HUMAN Protein N-terminal asparagine amidohydrolase OS=Homo sapiens  
GN=NTAN1 PE=1 SV=3

MPLLVEGRRVRLPQSAGDLVRAHPPEERARLLRGQSVQVGPQGGLLYVQQRELAVTSPK  
DGSISILGSDDATTCHIVVLRHTGNGATCLTHCDGTDKAEVPLIMNSIKSFSDDHAQCGR  
LEVHLVGGFSDDRQLSQKLTHQLLSEFDRQEDDIHLVTLCTELNDREENENHFPVIYGI  
AVNIKTAEIYRASFDQRGPEEQLRAARTLAGGPMISIIYDAETEQLRIGPYSWTPFPHVDF  
WLHQDDKQILENLSTSPLAEPHFVEHIRSTLMFLKKHPSAHTLFSGNKALLYKKNEDG  
LWEKISSPGS

>sp|P34130|NTF4\_HUMAN Neurotrophin-4 OS=Homo sapiens GN=NTF4 PE=1 SV=1

MLPLPSCSLPILLFLPSVPIESQPPSTLPPFLAPEWDLLSPRVLSRGAPAGPPLLF  
LLEAGAFRESAGAPANRSRRGVSETAPASRRGELAVCDVSGWVTDRTAVDLRGREVEV  
LGEVPAAGGSPLRQYFFETRCKADNAEEGGPGAGGGGCRGVDRRHVVSECKAKQSYVRAL  
TADAQGRVGRWIRIDTACVCTLLSRTGRA

>sp|O75694|NUP155\_HUMAN Nuclear pore complex protein Nup155 OS=Homo sapiens GN=NUP155 PE=1  
SV=1

MPSSLLGAAMPASTSAAALQEALENAGRLIDRQLQEDRMYPDLSELLMVSAPNNPTVSGM  
SDMDYPLQGPGLLSVPNLPEISSIRRVPLPPELVEQFGHMQCNCMMGVFPPIISRAWLTID  
SDIFMWNYEDGGDLAYFDGLSETILAVGLVKPKAGIFQPHVRHLLVLATPVDIVILGLSY  
ANLQTGSGVLNDSLSGGMQLLPDPLYSLPTDNTYLLTITSTDNGRIFLAGKDGCLYEVAY  
QAEAGWFSQRCRKINHSKSSLSFLVPSLLQFTFSEDDPILQIAIDNSRNILYTRSEKGI  
QVYDLGQDQGMSRVASVSQNAIVSAAGNIARTIDRSVFKPIVQIAVIENSESLDCQLLA  
VTHAGVRLYFSTCPFRQPLARPNTLTLVHVRLPPGFSASSTVEKPSKVHRALYSKGILLM  
AASENEDNDILWCVNHDTPPFQKPMETQMTAGVDGHSWALSALDELKVDKIITPLNKDH  
IPITDSPVVVQQHMLPPKKFVLLSAQGSMLFHKLRPVDQLRHLLVSNVGGDGEEIERFFK  
LHQEDQACATCLILACSTAACDREVSATRAFFRYGGEAQMRFPPTLPPPSNVGPILGS  
PVYSSSPVPSGSPYPNPSFLGTPSHGIQPPAMSTPVCALGNPATQATNMSCVTGPEIVYS  
GKHNGICIIYFSRIMGNIWDASLVVERIFKSGNREITAIESSVPCQLLESVLQELKGLQEF  
LDRNSQFAGGPLGNPNTTAKVQQRILIGMRPENGPNPQQMQQELQRKFHEAQLSEKISLQA  
IQQLVRKSYQALALWKLCEHFTIIVAELQKELQELKITTFKDLVIRDKELTGALIAS  
LINCYIRDNAAVDGISLHLQDICPLLYSTDDAICSKANELLRQRQVQNKTEKERMLRES  
LKEYQKISNQVDLSNVCAQYRQVRFYEGVVELSLTAAEKKDPQGLGLHFYKHGEPEEDIV

GLQAFQERLNSYKCITDTLQELVNQSKAAPQSPSPKPGPPVLSSDPNMLSNEEAGHHF  
EQMLKLSQRSKDELFSIALYNWLIQVDLADKLLQVASPFLEPHLVRMAKVDQNRVRYMDL  
LWRYYEKNRSFSNAARVLSRLADMHSTEISLQQRLEYIARILSAKSSTAISIAADGEF  
LHELEEKMEVARIQLQIQETLQRQYSHSSVQDAVSQDSELM DITKLYGEFADPFKLAE  
CKLAI IHCAGYSDPILVQTLWQDIIEKELSDSVTLSSSDRMHALSLKIVLLGKIYAGTPR  
FFPLDFIVQFLEQQVCTLNWDVGFVIQTMNEIGVPLPRLLEVDQLFKSRDPFWNRMKKP  
LHLLDCIHVLLIRYVENPSQVLCERRRFTNLCLDAVCGYLVELQSMSSSVAVQAITGNF  
KSLQAKLERLH

>sp|Q9BR26|OCSTP\_HUMAN Osteoclast stimulatory transmembrane protein OS=Homo sapiens  
GN=OCSTAMP PE=2 SV=2

MPGHGAAEQLVKTGWRSHLGFWKALAPLQAAWDAFSQVPVASCQQLLTQLLLCASLAA  
AAAGLVYHWLASLLLYPPGPSAMVATVCGLLVFLSLGLVPPVRCLFALSVP TLGMEQGRR  
LLLSYSTATLAI AVPNVLANVGAAGQVLRVTEGSLESLLNTTHQLHAASRALGPTGQA  
GSRGLTFEAQDNGSAFYLHMLRVTTQQVLEDFSGLESLARAAALGTQRVVTGLFMLGLLVE  
SAWYLHCYLTDLRFDNIYATQQLTQRLAQAQATHLLAPPPTWLLQAAQLRLSQEELLSCL  
LRLGLLALLLVATAVAVATDHVAFLLAQATVDWAQKLPTVPITLTVKYDVAYTVLGFIPF  
LFNQLAPESPFLSVHSSYQWELRLTSARCPLLPARRPRAAAPLAAGALQLLAGSTVLEA  
YARRLRHAIAASFFTAQEARRVRHLHARLQRRHHRHQGQQLPLGDPSCVPTPRPACKPPA  
WIDYRLDALRTESSEGEKELWSCRDLSCNLGPVPPPCVTLGKSLHLSEPRFLHLHND SI  
FTIDVTYFPRRDVVRMEGNTGHDRPG

>sp|P36957|ODO2\_HUMAN Dihydrolipoyllysine-residue succinyltransferase component of 2-  
oxoglutarate dehydrogenase complex, mitochondrial OS=Homo sapiens GN=DLST PE=1 SV=4

MLSRSRCVSRAFSRSLSAFQKGNCP LGRRSLPGVSLCQGGPGYPNSRKVVINNSVFSVRFF  
RTTAVCKDDLVTVKTPAFAESVTEGDVRWEKAVGDTVAEDEVVCEIETDKTSVQVPSPAN  
GVIEALLVPDGGKVEGGTPLFTLRKTGAAPAKAKPAEAPAAAAPKAEPTAAAVPPPAPI  
PTQMPPVPSPSQPPSGKPVSAVKPTVAPPLAEPGAGKGLRSEHREKMNRMRQRIAQRLKE  
AQNTCAMLTTFNEIDMSNIQEMRARHKEAFLKKNLKLGFMSAFVKASAFALQE QPVVNA  
VIDDTTKEVVYRDYIDISVAVATPRGLVVPVIRNVEAMNFADIERTITELGEKARKNELA  
IEDMDGGTFTISNGGVFGSLFGTPIINPPQSAILGMHGIFDRPVAIGGKVEVRPMMYVAL  
TYDHRLLIDGREAVTFLRKIKAAVEDPRVLLLDL

>sp|Q6PK18|OGFD3\_HUMAN 2-oxoglutarate and iron-dependent oxygenase domain-containing  
protein 3 OS=Homo sapiens GN=OGFOD3 PE=1 SV=2

MAPQRRRAATKAPEGNGAAERRNRSSTKKDRAPREVQRLWQRPWLRTAGLGAGFVLTALLL  
WSSLGADDGVAEVLARRGEVAGR FIEVPCSEYD SHRRFEGCTPRKCGRGVTDVVITRE  
EAERIRSAEKGLSLGGSDGGASILDHSGALSVGKHFNLYRYFGDKIQNIFSEEDFRL  
YREVRQKVQLTIAEAFGISASSLHLTKPTFFSRINSTEARTAHDEYWHAHVDKV TYGSFD  
YTSLLYLSNYLED FGGGRFMFMEEGANKTVEPRAGRVSFFTSGSEN LHRVEKVHWGTRYA  
ITIAFSCNPDHGIEDPAFP

>sp|Q5TC84|OGR L1\_HUMAN Opioid growth factor receptor-like protein 1 OS=Homo sapiens  
GN=OGFRL1 PE=2 SV=1

MGNLLGGVSFREP TTVEDCDSTWQTDSEPEPEEPGPGGGSEGPGQESEQPAQPPEQAGGR  
PGASPAPDEDAEAAAGAEQGGDSTEATAKPKRSFYAARDLYKYRHQYPNFKDIRYQNDLSN  
LRFYKNKIPFKPDGVYIEEVL SKWKGDYEKLEHNHTYIQWLFPLREQGLNFYAKELTTYE  
IEEFKKTKEAIRFLLAYKMMLEFFGIKLTDKTGNVARAVNWQERFQHLNESQHNYLRIT

RILKSLGELGYESFKSPLVKFILHEALVENTIPNIKQSALEYFVYTIRDRRERRKLLRFA  
QKHYPSENFIWGPPRKEQSEGSKAQKMSSPLASSHNSQSMHKKAKDSKNSSSAVHLNS  
KTAEDKKVAPKEPVEETDRPSPEPSNEAAKPRNTEKDSNAENMNSQPEKTVTTPTEKKES  
VSPENNEEGGNDNQDNENPGNTNCHDVVLVQ

>sp|O15294|OGT1\_HUMAN UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase  
110 kDa subunit OS=Homo sapiens GN=OGT PE=1 SV=3

MASSVGNVADSTEPTKRMLSFQGLAELAHREYQAGDFAAERHQMQLWRQEPDNTGVLLL  
LSSIHFQCRRLDRSAHFSTLAIKQNPLLAEAYSNLGNVYKERGQLQEATIEHYRHALRLKP  
DFIDGYINLAAALVAAGDMGAVQAYVSALQYNPDLYCVRSDLGNNLKALGRLEEAKACY  
LKAIETQPNFAVAWSNLGCVFNAQGEIWLAIHHFEKAVTLDPNFLDAYINLGNVLKEARI  
FDRVAAAYLRALSLSPNHAVVHGNLACVYEEQGLIDLAIDTYRRAIELQPHFPDAYCNLA  
NALKEKGSVAEAEDCYNTALRLCPTHADSLNNLANIKREQGNIEAVRLYRKALEVFPEF  
AAAHSNLASVLQQQKGLQEALMHYKEAIRISPTFADAYSNMGNTLKEMQDVQGALQCYTR  
AIQINPAFADAHSNLASIHKDSGNIPEAIASYRTALKLKPDPDAYCNLAHCLQIVCDWT  
DYDERMKKLVSIADQLEKNRLPSVHPHSMPLYPLSHGFRKAIAERHGNNCLDKINVLHK  
PPYEHPKDLKLSDGRLRVGYVSSDFGNHPTSHLMQSIIPGMHNPDKFEVFCYALSPDDGTN  
FRVKVMAEANHFIDLSQIPCNGKAADRIHQDGIHILVMNGYTKGARNELFALRPAPIQA  
MWLGYPGTSGALFMDYIITDQETSPAEEAEQYSEKLAYMPHTFFIGDHANMFPHLKKKAV  
IDFKSNGHIYDNRIVLNGIDLKAFDLSLPVKIVKMKCPDGGDNADSSNTALNMPVIPMN  
TIAEAVIEMINRGQIQITINGFSISNGLATTQINNKAATGEEVPTIIIVTTRSQYGLPED  
AIVYCNFNQLYKIDPSTLQMWANILKRVNSVLWLLRFPVAVGEPNIQQYAQNMGLPQNRI  
IFSPVAPKEEHVRRGQLADVCLDTPLCNGHTTGMDVLWAGTPMVTMPGETLASRVAASQL  
TCLGCLLELIAKNRQEYEDIAVKLGTDLLEYLKKVRGKVWKQRISSPLFNTKQYTMELERLY  
LQMWEHYAAGNKPDMIKPVEVTESA

>sp|Q9BXB5|OSB10\_HUMAN Oxysterol-binding protein-related protein 10 OS=Homo sapiens  
GN=OSBPL10 PE=1 SV=2

MERAVQGTGGGGNSSSSRSSSRATSAGSSPSCSLAGRGVSSRSAAAGLGGGSRSSPGS  
VAASPSGGGRRREPALGVLSKYTNLLQGWQNRVFLDFEAGILQYFVNEQSKHKQKPRG  
VLSLSGAIIVSLSDEAPHMLVVYSANGEMFKLRAADAKEKQFVVTQLRACAKYHMEMNSKS  
APSSRSRSLTLLPHGTPNSASPCSQRHLSVGAPGVVTITHHKSPAAARRAKSQYSGQLHE  
VREMNMVQEGQQKNLVHAIESLPGSGPLTALDQDLLLLKATSAATLSCLGECLNLLQQSV  
HQAGQPSQKPGASENILGWHGSKSHSTEQLKNGTLGSLPSASANITWAILPNSAEDEQTS  
QPEPEPNSGSELVSEDEKSDNEDKEETELGVMEDQRSIIHLISQLKLGMDLTKVVLPT  
FILEKRSLLEMYADFMAHPDLLAITAGATPEERVICFVEYYLTAFHEGRKGALAKKPYN  
PIIGETFHCSWEVPKDRVKPKRTASRSPASCHEHPMADDPSKSYKLRFVAEQVSHHPPIS  
CFYCECEEKRLCVNTHVWTKSKFMGMSVGVSMIGEGVLRLLHEHGEEYVFTLPSAYARSIL  
TIPWVELGGKVSINCAKTGYSATVIFHTKPFYGGKVHRVTAEVKHNPTNTIVCKAHGEWN  
GTLEFTYNNGETKVIDTTTLPVYPKKIRPLEKQGPMEsrnlwREVTRYLRDIDAATEQ  
KRHLEEKQRVEERKRENLRTPWKPKYFIQEGDWVYFNPLWKAH

>sp|P41217|OX2\_G\_HUMAN OX-2 membrane glycoprotein OS=Homo sapiens GN=CD200 PE=1 SV=4

MERLVIRMPFSLSTYSLVWVMAAVVLTCAQVQVVTQDEREQLYTPASLKCQLNAQEAL  
IVTWQKKKAVSPENMVFSENHGVIQPAYKDKINITQLGLQNSTITFWNITLEDEGCM  
CLFNTFGFGKISGTACLTVYVQPIVSLHYKFSEDHLNITCSATARPAPMVFWKVPKRSIE  
NSTVTLSHPNGTTSVTSILHIKDPKNQVGKEVICQVLHLGTVTDFKQTVNKGWFSVPLL

LSIVSLVILLVLISILLYWKRHRNQDRGELSQGVQKMT

>sp|043614|OX2R\_HUMAN Orexin receptor type 2 OS=Homo sapiens GN=HCRTR2 PE=1 SV=2

MSGTKLEDSPPCRNWSSASELNETQEPFLNPTDYDDEEFLRYLWREYLHPKEYEWVLIAG  
YIIVFVVALIGNVLVCVAVWKNHMRVTNTYFIVNLSLADVLVTITCLPATLVVDITETW  
FFGQSLCKVIPYLQTVSVSVSVLTLSICIALDRWYAICHPLMFKSTAKRARNISIVIIWIVS  
CIIMIPQAIVMECSTVFPGLANKTTLFTVCDERWGGEIYPKMYHICFFLVTYMAPLCMLV  
LAYLQIFRKLWCRQIPGTSSVVQRKWKPLQPVSQPRGPGQPTKSMSAVAAEIKQIRARR  
KTARMLMIVLLVFAICYLPISILNVLKRVFGMFAHTEDRETVYAWFTFSHWLVYANSAAN  
PIIYNFLSGKFREEFKAAAFSCCLGVHHRQEDRLTRGRTSTESRKSLTTQISNFDNISKL  
SEQVVLTSISTLPAANGAGPLQNW

>sp|Q96P68|OXGR1\_HUMAN 2-oxoglutarate receptor 1 OS=Homo sapiens GN=OXGR1 PE=2 SV=1

MNEPLDYLANASDFPDYAAAFGNCTDENIPLKMHYLPVIYGIIFLVGFPGNAVVISITYIF  
KMRPWKSSTIIMNLACTDLLYLTSLPFLIHYYASGENWIFGDFMCKFIRFSFHFNLYSS  
ILFLTCSIFRYCVIIHPMSCFSIHKTRCAVVACAVVWIIISLVAVIPMTFLTITSTNRTNR  
SACDLTSSDELNTIKWYNLILTATTFCLPLVIVTLCYTTIIHTLTHGLQTDSCCLKQKAR  
RLTIILLLLAFYVCFPLPFHILRVIRIESRLLSISCSIENQIHEAYIVSRPLAALNTFGNLL  
LYVVVSDNFQQAVCSTVRCKVSGNLEQAKKISYSNNP

>sp|Q6GTS8|P20D1\_HUMAN N-fatty-acyl-amino acid synthase/hydrolase PM20D1 OS=Homo sapiens  
GN=PM20D1 PE=2 SV=3

MAQRCVCVLALVAMLLLVPFTVSRSMGPRSGEHQRASRIPSQFSKEERVAMKEALKGAIQ  
IPTVTFSSSEKSNTTALAEFGKYIHKVFTPVVSTSFQHEVVEEYSHLFTIQGSDPSLQPY  
LLMAHFDVVPAPEEGWEVPPFSGLERDGIYGRGTLDDKNSVMALLQALELLLIRKYIPR  
RSFFISLGHDEESSGTGAQRISALLQSRGVQLAFIVDEGGFILDFFIPNFKKPIALIAVS  
EKGSMLMLQVNMTSGHSSAPPKETSIGILAAAVSRLEQTPMPIIFGSGTVVTVLQQLAN  
EFPPPVNIILSNPWLFEPLISRFMERNPLTNAIIRTTTALTIFKAGVKFNVIPPVAQATV  
NFRIHPGQTVQEVLELTKNIVADNRVQFHVLSAFDPLPVSPSDDKALGYQLLRQTVQSVF  
PEVNITAPVTSIGNTDSRFFTNLTGTIYRFYPIYIQPEDFKRIHGVNEKISVQAYETQVK  
FIFELIQNADTDQEPVSHLHKL

>sp|A8MW92|P20L1\_HUMAN PHD finger protein 20-like protein 1 OS=Homo sapiens GN=PHF20L1  
PE=1 SV=2

MSKKPPNRPGITFEIGARLEALDYLKWYPSRIEKIDYEEGKMLVHFERWSHRYDEWIYW  
DSNRLRPLERPALRKEGLKDEEDFFDFKAGEEVLARWTDCRYYPAKIEAINKEGTFTVQF  
YDGVIRCLKRMHIKAMPEDAKGVKSQHPLSWCCPIDPAGSCNQSMGSEDWIALVKAAAA  
AAAKNKTGSKPRTSANSNKDKDKDERKWKVPSKKEETSTCIATPDVEKKEDLPTSSETF  
GLHVENVPKMVFPQPESTLSNKRKNNQGSFQAKRARLNKITGLLASKAVGVDGAEEKED  
YNETAPMLEQAISPKPQSQKKNEADISSANTQKPALLSSTLSSGKARSKCKHESGDSS  
GCIKPPKSPLSPELIQVEDLTLVSQSSSVINKTSPQPVPNPPRPFKHSERRRRSQRLAT  
LPMPDDSVEKVSSPATDGKVFSSSQNQESSVPEVPDVAHLPLEKLGPCPLPLDLSRG  
SEVTAPVASDSSYRNECPRAEKEDTQMLPNPSSKAIADGRGAPAAAGISKTEKKVKLEDK  
SSTAFGKRKEKDKERREKRDKDHYPKQKKKKKKKKKSKQHDYSDYEDSSLEFLERCSSP  
LTRSSGSSLASRSMFTEKTTTYQYPRAILSVDLSGENLSDVDLDDSTESLLSGDEYN  
QDFDSTNFEESEQDEDDALNEIVRCICEMDEENGFMICEECLCWQHSVCMGLLEESIQEQ  
YICYICRDPGQGRWSAKYRYDKEWLNNGRMCGLSFFKENYSHLNAKKIVSTHLLADVYG  
VTEVLHGLQLKIGILKNKHPDLHLWACSGKRKDQDQIIAGVEKKIAQDTVNREEKKYVQ

NHKEPPRLPLKMEGTYITSEHSYQKPQSFGQDCKSLADPGSSDDDDVSSLEEEQEFHMRS  
KNSLQYSAKEHGMPEKNPAEGNTVFVYNDKKGTEDPGDShLQWQLNLLTHIENVQNEVTS  
RMDLIEKEVDVLESWLDFTGELEPPDPLARLPQLKRHIKQLLIDMGKVQQIATLCSV

>sp|Q96G91|P2Y11\_HUMAN P2Y purinoceptor 11 OS=Homo sapiens GN=P2RY11 PE=2 SV=2

MAANVSGAKSCPANFLAAADDKLSGFGDFLWPILVVEFLVAVASNGLALYRFSIRKQRP  
WHPAVVFSVQLAVSDLLCALTLPLAAYLYPPKHWRYGEAACRLERFLFTCNLLGSVIFI  
TCISLNRYLGIVHPFFARSHLRPKHAWAVSAAGWVLAALLAMPTLSFSLKRPQQGAGNC  
SVARPEACIKCLGTADHGLAAYRAYSLVLAGLGCGLPLLLTLAAYGALGRAVLRSPGMTV  
AEKLRAALVASGVALYASSYVPHYMRVLNVDARRRWSTRCPSFADIAQATAALELGPY  
VGYQVMRGLMPLAFCVHPLLYMAAVPSLGCCCRHCPGYRDSWNPEDAKSTGQALPLNATA  
APKPSEPQSRELSQ

>sp|Q9BPV8|P2Y13\_HUMAN P2Y purinoceptor 13 OS=Homo sapiens GN=P2RY13 PE=2 SV=3

MTAAIRRQRELSILPKVTLEAMNTTVMQGFNRSECRDTRIVQLVFPALYTVVFLTGIL  
LNTLALWVFVHIPSSSTFIYILKNTLVADLIMTLMLPFKILSDSHLAPWQLRAFVCRFSS  
VIFYETMYVGIVLLGLIAFDRFLKIIRPLRNIFLKKPVFAKTVSIFIWFFLFFISLPNTI  
LSNKEATPSSVKKCASLKGPLGLKWHQMVNNICQFIFWTVFILMLVFYVVIKKVYDSYR  
KSKSKDRKNNKKLEGKVFFVVAVFFVCFAPFHFARVPYTHSQTNKTDCLQNQLFIAKE  
TTLFLAATNICMDPLIYIFLCKKFTKELPCMQRKTTASSQENHSSQTDNITLG

>sp|P09131|P3\_HUMAN P3 protein OS=Homo sapiens GN=SLC10A3 PE=2 SV=1

MVLMQDKGSSQQWPGLGGGGGTGPLSMLRAALLLISLPWGAQGTASTSLSTAGGHTVPP  
TGGRYLSIGDGSVMFEFEPEDSEGIIVISSQYPGQANRTAPGMLRVTSLDTEVLTIKNV  
SAITWGGGGGFVVSIIHSLAGLAPLHIQLVDAHEAPPTLIEERRDFCIKVSPAEDTPATL  
SADLAHFSENPIYLLPLIFVNKCSFGCKVELEVKGMLQSPQPMMLGLLGQFLVMPLY  
AFLMAKFMLPKALALGLIITCSSPGGGSYLFSLLLGGDVTLAISMFTLSTVAATGFLP  
LSSAIYSRLLSIHETLHVPISKILGTLLFIAIPIAVGVLIKSLPKFSQLLLQVVKPFSF  
VLLGGLFLAYRMGVFILAGIRLPIVLVGITVPLVGLLVGYCLATCLKPVAQRRTVSIE  
VGVQNSLLALAMLQLSLRRLQADYASQAPFIVALSGTSEMLALVIGHFIYSSLPVP

>sp|000330|ODPX\_HUMAN Pyruvate dehydrogenase protein X component, mitochondrial OS=Homo sapiens GN=PDHX PE=1 SV=3

MAASWRLGCDPRLRLYLVGFPGRRSVGLVKGALGWSVSRGANWRWFHSTQWLRGDPKIL  
MPSLSPTEEGNIVKWLKKEGEAVSAGDALCEIETDKAVVTLASDDGILAKIVVEEGSK  
NIRLGSILGLIVEEGEDWKHVEIPKDVGPPPPVSKPSEPRPSPEPQISIPVKEHIPGTL  
RFRLSPAARNILEKHSLDASQGTATGPRGIFTKEDALKLVQLKQTGKITESRPTPAPTAT  
PTAPSPQLATAGPSYPRVIPPVSTPGQPNVAGTFTEIPASNIRRVIAKRLTESKSTVPH  
AYATADCDLGAVLKVRQDLVKDDIKVSVNDFIIKAAAVTLKQMPDVNVSWDGEGPKQLPF  
IDISVAVATDKGLLTPIIKDAAAKGIQEIADSVKALSKKARDGKLLPEEYQGSFSISNL  
GMFGIDEFTAVINPPQACILAVGRFRPVLKLTEDEEGNAKLQQRQLITVTMSSDSRVVDD  
ELATRFLKSFKANLENPIRLA

>sp|Q9H6K4|OPA3\_HUMAN Optic atrophy 3 protein OS=Homo sapiens GN=OPA3 PE=1 SV=1

MVVGAFPMALLYLGIQVSKPLANRIKEAARRSEFFKTYICLPPAQLYHWMRTKMRI  
MGFRGTVIKPLNEEAAAELGAELLGEATIFIVGGGCLVLEYWRHQAQQRHKEEQRAAWN  
ALRDEVGHLALALEALQAQVQAAPPQGALEELRTELQEVRAQLCNPGRSASHAVPASKK

>sp|P04000|OPSR\_HUMAN Long-wave-sensitive opsin 1 OS=Homo sapiens GN=OPN1LW PE=1 SV=1

MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSTNSTRGPFEGPNYHIAPRWVYHLTSVWM

IFVVTASVFTNGLVLAATMKFKKLRHPLNWILVNLAVADLAETVIASTISIVNQVSGYFV  
LGHPMCVLEGYTVSLCGITGLWSLAIISWERWLVVCKPFGNVRFDAKLAIVGIAFSWIWS  
AVWTAPPIFGWSRYWPHGLKTS CGPDVFSGSSYPGVQSYMIVLMVTCCIIPLAIIMLCYL  
QVWLAIRAVAKQKQKSESTQKAEKEVTRMVVVMIFAYCVCWGPYTFACFAAANPGYAFH  
PLMAALPAYFAKSATIYNPVIYVFMNRQFRNCILQLFGKKVDDGSELSSASKTEVSSVSS  
VSPA

>sp|Q9UBM4|OPT\_HUMAN Opticin OS=Homo sapiens GN=OPTC PE=1 SV=1  
MRLLAFLSLLALVLQETGTASLPRKERKRREEQMPREGDSFEVLPLRNDVLNPDNYGEVI  
DLSNYEELTDYGDQLPEVKVTS LAPATSISPAKSTTAPGTPSSNPTMTRPTTAGLLSSQ  
PNHGLPTCLVCVCLGSSVYCDDIDLEDIPPLPRRTAYLYARFNIRISIRAEFDKGLTKLK  
RIDLSNNLISSIDNDAFRLHLALQDLILPENQLEALPVLPSGIEFLDVRLNRLQSSGIQP  
AAFRAMEKLQFLYLSDNLLDSIPGPLPLSLRSVHLQNNLIETMQRDVFCDEEHKHTRRQ  
LEDIRLDGNPINLSLFP SAYFCLPRLPIGRFT

>sp|Q8NGR6|OR1B1\_HUMAN Olfactory receptor 1B1 OS=Homo sapiens GN=OR1B1 PE=3 SV=2  
MMSFAPNASHSPVFLLLGFSRANISYTLFFFLFLAIYLTITLGNVTLVLLISWDSRLHSP  
MYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVM  
ALDRYVAICDPLHYALVMNHQRCACLLALS WVVSILHTMLRVGLVPLCWTGDAGGNVNL  
PHFFCDHRPLLRASCDIHSNELAIFEGGFLMLGPCALIVLSYVRIGAAILRLPSAAGR  
RRAVSTCGSHLTMVGFLYGTIICVYFQPPFQNSQYQDMVASVMTAITPLANPFVYSLHN  
KDVKGALCRLLEWVKVDP

>sp|P34982|OR1D2\_HUMAN Olfactory receptor 1D2 OS=Homo sapiens GN=OR1D2 PE=1 SV=2  
MDGGNQSEGSEFLLLGMSSESPEQQRILFWMFLSMYLVTVGNVLIILAISDSRLHTPVY  
FFLANLSFTDLFFVTNTIPKMLVNLQSHNKAISYAGCLTQLYFLVSLVALDNLILAVMAY  
DRYVAICCPHYTTAMSPKLCILLSLCWVLSVLYGLIHTLLMTRVTF CGSRKIHIFCE  
MYVLLRMACSNIQINHTVLIATGCFIFLIPFGFVIISYVLIIRAILRIPSVSKKYAFST  
CASHLGAVSLFYGTLCMVYLKPLHTYSVKDSVATVMYAVVTPMMPFIYSLRNKDMHGAL  
GRLLDKHFKRLT

>sp|O43749|OR1F1\_HUMAN Olfactory receptor 1F1 OS=Homo sapiens GN=OR1F1 PE=2 SV=1  
MSGTNQSSVSEFLLGLSRQPPQHLLFVFFLSMYLATVLGNLLIILSVSIDSCLHTPMY  
FFLSNLSFVDICFSFTTVPKMLANHILETQTISFCGCLTQMYFVFMFVDMDNFLLAVMAY  
DHFVAVCHPLHYTAKMTHQLCALLVAGLVVAVANLVLLHTLLMAPLSFCADNAITHFFCD  
VTPLLKLSGSDHTLNEVILSEGALVMITPFLCILASYMHITCTVLKVPSTKGRWKAFST  
CGSHLAVVLLFYSTIIAVYFNPLSSHSAEKDTMATVLYTVVTPMLNPFYSLRNRYLKGA  
LKKVVG RVVFSV

>sp|O60431|OR1I1\_HUMAN Olfactory receptor 1I1 OS=Homo sapiens GN=OR1I1 PE=3 SV=1  
MEPEKQTEISEFLLQGLSEKPEHQTLFTMFLSTYLVTIIGNALIILAIITDSLHTPMY  
FFFLNLSLVDTLSSSTTVPKMLANIQAQSR AIPFVGCLTQMYAFHLFGTMSFLLAVMAI  
DRFVAIVHPQRYLVLMCSPVCGLLLGASWMITNLQSLIHTCLMAQLTFCAGSEISHFFCD  
LMPLLKLSGSDHTNELVIFA FGI VGTSPFSCILLSYIRIFWTVFKIPSTRGKWKAFST  
CGLHLTVVSLSYGTIFAVYLQTPSPSSQKDKAAALMCGVFIPMLNPFYISIRNKDMKAA  
LGKLIGKVAVPCPRPEQLLDVYHVP GSLLAARDTEMHPIPYPGGVQSLAGNRDME

>sp|Q8NH94|OR1L1\_HUMAN Olfactory receptor 1L1 OS=Homo sapiens GN=OR1L1 PE=3 SV=3  
MERNHNPDCNVNLNFFFADKKNKRRNFGQIVSDVGRICYSVLSLGEPTTMGRNNLTRPS  
EFILLGLSSRPEDQKPLFAVFLPIYLITVIGNLLIILAIRSDTRLQTPMYFFLSILSFVD

ICYVTVIIPKMLVNFSETKTISYSECLTQMYFFLAFGNTDSYLLAAMAIDRYVAICNPF  
HYITIMSHRCCVLLLVSFCIPHFHSLHILLTNQLIFCASNVIIHFFCDDQPVLKLSCS  
SHFVKEITVMTEGLAVIMTPFSCIIISYLRILITVLKIPSAAGKRKAFSTCGSHLTVVTL  
FYGSISYLYFQPLSNYTVKDQIATIIYTVLTPMLNPFYISLRNKDMKQGLAKLMHRMKCQ  
>sp|Q8NGR8|OR1L8\_HUMAN Olfactory receptor 1L8 OS=Homo sapiens GN=OR1L8 PE=2 SV=1  
MERINHTSSVSEFILLGLSSRPEDQKTLFVLFLIVYLVITIGNLLIILAIRFNPHLQTPM  
YFFLSFLSLTDICFTTSVVPKMLMNFLEKKTISYAGCLTQMYFLYALGNSDSCLLAVMA  
FDRYVAVCDPFHYVTMSHHHCVLLVAFSCSFPHLHSLHTLLNRLTFCDENVIIHFLC  
DLSPVLKLSCSSIFVNEIVQMTEAPIVLVTRFLCIAFSYIRILTTVLKIPSTSGKRKAFS  
TCGFYLTVVTLFYGSIFCVYLQPPSTYAVKDHVATIVYTVLSSMLNPFYISLRNKDLKQG  
LRKLMSKRS

>sp|Q8NH06|OR1P1\_HUMAN Olfactory receptor 1P1 OS=Homo sapiens GN=OR1P1 PE=2 SV=2  
MGLTQDFPPTSELLEGNGTSTFEFLWGLSDQPQQQHIFLLFLWMYVTVAGNLLIV  
LAIGTDTHLHTPMYFFLASLSCADIFSTSTTPVKALVNIQTQSRISISYAGCLAQLYFFLT  
FGDMDIFLPATMAYDRYVAICHLLHYMMIMSLHRCAFLVTACWTLTSLAMTRTFLIFRL  
SLCSAILPGFFCDLGPLMKVSCSDAQVNELVLLFLGGAVILIPFMLILVSYIRIVSAILR  
APSAQGRRKAFSTCDSHLVVALFFGTVIRAYLCPSSSSSNSVKEDTAAVMTVTVTPLL  
NPFYISMRNKDMAAVVRLKGRVSFSQGG

>sp|Q6IF42|OR2A2\_HUMAN Olfactory receptor 2A2 OS=Homo sapiens GN=OR2A2 PE=2 SV=2  
MEGNQTWITDITLLGFQVGPALAILLCGLFSVFYTLTLGNGVIFGIICLDSKLHTPMYF  
FLSHLAIIDMSYASNVPKMLANLMNQKRTISFVPCIMQTFLYLAFVTECLILVMSYD  
RYVAICHFPFYTVIMSWRVCTILVLTWSWCGFALSLVHEILLRLPFCGPRDVNHLFCEI  
LSVLKLACADTWNVQVIFATCVFVLVGPLSLILVSYMHILGAILKIQTKEGRIKAFSTC  
SSHLCVVGLFFGIAMVVYMPDSNQREEQEKMLSLFHSVFNPMNLPIYSLRNAQLKGAL  
HRALQRKRSMRTVYGLCL

>sp|Q8NH16|OR2L2\_HUMAN Olfactory receptor 2L2 OS=Homo sapiens GN=OR2L2 PE=2 SV=1  
MENYNQTSTDFILLGLFPQSRIGLFVFTLIFLIFLMALIGNLSMILLIFLDIHLHTPMYF  
LLSQLSLIDLNYISTIVPKMVYDFLYGNKISFTGCGIQSFFFLTAVAEGLLLTSMAYD  
RYVAICFPLHYPIRISKRCVMMITGSMISSINCAHTVYALCIPYCKSRAINHFFCDV  
PAMLTACTDTWVYESTVFLSSTIFLVLPFTGIACSYGRVLLAVYRMHSAEGRKKAYSTC  
STHLTVVSFYYPAYTYVRPSRLSPTEDKILAVFYITLTPMLNPIIYSLRNKEVMGAL  
TQVIQKIFSVM

>sp|Q8NGY3|OR6K3\_HUMAN Olfactory receptor 6K3 OS=Homo sapiens GN=OR6K3 PE=3 SV=2  
MCWTMPSPFTGSSTRNMESGNQSTVTEFIFTGFPQLQDGSLLYFFPLLFIYTFIIIDNLL  
IFSAVRDLTHLHNPYNFISIFSLEIWTATIPKMLSNLISEKKAISMTGCILQMYFF  
HSENSEGILLTTMAIDRYVAICNPLRYQMIMTPRLCAQLSAGSCLFGFLILLPEIVMIS  
TLPCGPNQIHQIFCDLVPVLSLACTDTSMILIEDVIHVTIIITFLIIALSIVRIVTVI  
LRIPSSEGRQKAFSTCAGHLMVFPIFFGSVSLMYLRFSDTYPPVLDTAIALMFTVLAPFF  
NPIIYSLRNKDMNNAIKKLFCLQKVLNKPGG

>sp|Q8NGY6|OR6N2\_HUMAN Olfactory receptor 6N2 OS=Homo sapiens GN=OR6N2 PE=3 SV=1  
MDQYNHSSLAEFVFLGFASVGYVRGWLFLVLLLAYLFTICGNMLIFSVIRLDAALHTPMY  
HFVSVLSFLELWYTATTIPKMLSNLSEKKTISFAGCLLQTYFFHSLGASECYLLTAMAY  
DRYLAICRPLHYPIIMTTTLCAKMAAACWTCGFLCPISEVILASQLPFCAYNEIQHIFCD  
FPPLLSLACKDTSANILVDFAINAFIILITFFFIMISYARIIGAVLKIKTASGRKKAFST



CASHLAVVLIFFGSIIFMYVRLKKSYSLTLDRTLAIVYSVLTMPVNPPIIYSLRNKEIIKA  
IKRTIFQKGDKASLAHL

>sp|076100|OR7AA\_HUMAN Olfactory receptor 7A10 OS=Homo sapiens GN=OR7A10 PE=3 SV=1  
MKSWNNTIILEFLLLGISEEPELQAFLFGLFLSMYLVTVLGNLLIILATISDSHLHTPMY  
FFLSNLSFVDICFVSTTVPKMLVNIQTHNKVITYAGCITQMCFFLLFVGLDNFLLTMAY  
DRFVAICHPLHYMVIMNPQLCGLLVLASWIMSVLNSMLQSLMVLPLPFCTHMEIPHFFCE  
INQVVHLACSDTFLNDIVMYFAVALLGGGPLTGILYSYSKIVSSIRAISQAQGYKAFST  
CASHLSVVSLFYGTCLGVYLSAATHNSHTGAAASVMYTVVTPMLNPFIYSLRNKHIKGA  
MKTFFRGKQ

>sp|076099|OR7C1\_HUMAN Olfactory receptor 7C1 OS=Homo sapiens GN=OR7C1 PE=2 SV=1  
METGNQTHAQEFLLLGFSATSEIQFILFGLFLSMYLVTVLGNLLIILAICSDSHLHTPMY  
FFLSNLSFADLCFTSTTVPKMLNLTQNKFITAGCLSQIFFFTSFGCLDNLLLTVMAY  
DRFVAVCHPLHYTVIMNPQLCGLLVLGSWCISVMGSLETLTVLRLSFCTEMEIPHFFCD  
LLEVLKLACSDTFINNVIYFATGVLGVISFTGIFFSYKIVFSILRISSAGRKHKAFST  
CGSHLSVVTLFYGTGFGVYLSAATPSSRTSLVASVMYTMVTPMLNPFIYSLRNTDMKRA  
LGRLLSRATFFNGDITAGLS

>sp|Q13438|OS9\_HUMAN Protein OS-9 OS=Homo sapiens GN=OS9 PE=1 SV=1  
MAAETLLSSLLGLLLGLLLPASLTGGVGSLEELSEMRYGIEILPLPVMGGQSQSSDV  
VIVSSKYKQRYECRLPAGAIHFQREEREETPAYQGPGIPELLSPMRDAPCLLKTKDWWTY  
EFCYGRHIQQYHMEDESEIKGEVLYLGYYSQAFDWDDETAASKQHRLKRYHSQTYNGSK  
CDLNGRPRAEAVRFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTPRLCPHLLRPPPSAA  
PQAILCHPSLQPEEYMAVYVQRQADSKQYGDKIIEELQDLGPQVWSETKSGVAPQKMAGAS  
PTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDFQNNVQVKVIR  
SPADLIRFIEELKGGTKKGKPNIGQECPVDDAAEVPQREPEKERGDPERQREMEEEDEDED  
EDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERELENIIQETEKELDPDGL  
KKESERDRAMLALTSTLNKLIKRLKQSPQLVKKKKKKRVVPKPPSPQPTTEEDPEHR  
VRVRVTKLRLGGPNQDLTVLEMKRENPKLQIEGLVKELLEREGTLAAGKIEIKIVRPWA  
EGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQKQKELESNYRRVWGSPGGEGTG  
DLDEFDF

>sp|Q9NPF4|OSGEP\_HUMAN Probable tRNA N6-adenosine threonylcarbamoyltransferase OS=Homo sapiens GN=OSGEP PE=1 SV=1  
MPAVLGFEGSANKIGVGVRDGVLANPRRTYVTPPGTGFLPGDTARHHRVILDLLQEA  
LTESGLTSQDIDCIAYTKGPGMGAPLVSVAVVARTVAQLWNKPLVGVNHCIGHIEMGRLI  
TGATSPTVLYVSGGNTQVIAYSEHRYRIFGETIDIAVGNCLDRFARVLKISNDPSPGYNI  
EQMAKRGKKLVLPYTVKGMVDSFSGILSFIEDVAHRMLATGECTPEDLCFSLQETVFAM  
LVEITERAMAHCSQEALIVGGVGCNVRLQEMMATMCQERGARLFATDERFCIDNGAMIA  
QAGWEMFRAGHRTPLSDSGVTQRYRTDEVEVTWRD

>sp|Q99650|OSMR\_HUMAN Oncostatin-M-specific receptor subunit beta OS=Homo sapiens GN=OSMR PE=1 SV=1  
MALFAVFQTTFFLTLLSLRTYQSEVLAERLPLTPVSLKVSTNSTRQSLHLQWTVHNLPHYH  
QELKMVFQIQISRIETSNVIWVGNYSTTVKWNQVLHWSWESELPLECATHFVRIKSLVDD  
AKFPEPNFWSNWSWEEVSVQDSTGQDILFVFPKDKLVEEGTNVTICYVSRNIQNNVSCY  
LEGKQIHGEQLDPHTAFNLNSVPFIRNKGTNIYCEASQGNVSEGMKGIVLFVSKVLEEP  
KDFSCETEDFKTLHCTWDPGTDALGWSKQPSQSYTLFESFSGEKKLCTHKNWCNWQITQ

DSQETYNFTLIAENYLKRKSVNILFNLTHRVYLMNPFVNFENVNATNAIMTWKVHSIRN  
NFTYLCQIELHGEGKMMQYNVSIKVNGEYFLSELEPATEYMARVRCADASHFWKWSEWSG  
QNFTTLEAAPSEAPDVWRIVSLEPGNHTVTLFWKPLSKLHANGKILFYNVVVENLDKPSS  
SELHSIPAPANSTKLILDRCYQICVIANNSVGASPASVIVISADPENKEVEEERIAGTE  
GGFSLSWKPQPGDIVGYVVDWCDHTQDVLGDFQWKNVGPNTTSTVISTDAFRPGVRYDFR  
IYGLSTKRIACLEKKTGYSQELAPSDNPHVLVDTLTSHSFTLSWKDYSTESQPGFIQGY  
HVYLKSKARQCHPRFEKAVLSDGSECCKYKIDNPEEKALIVDNLKPESFYEFFITPFTSA  
GEGPSATFTKVTTPEHSSMLIHILLPMVFCVLLIMVMCYLKSQWIKETCYPDIPDPYKS  
SILSLIKFKNPHLIIMNVSDCIPDAIEVVSKEPGTKIQFLGTRKSLTETELTKPNLYL  
LPTEKNHSGPGPICFENLTYNQAASDSGSCGHVPVSPKAPSMGLMTSPENVLKALEKN  
YMNSLGEIPAGETSLNYVSQLASPMFGDKDSLPTNPVEAPHCSEYKMQMAVSLRLALPPP  
TENSSLSSITLLDPGEHYC

>sp|Q5XKR4|OTP\_HUMAN Homeobox protein orthopedia OS=Homo sapiens GN=OTP PE=1 SV=1

MLSHADLLDARLGMKDAAELLGHREAVKCRLLGVGSDPGGHPGDLAPNSDPVEGATLLPG  
EDITTVGSTPASLAVSAKDPDKQPGPGGPNPSQAGQQQGGQKQKRHRTRFTPAQLNELE  
RSFAKTHYPDIFMREELALRIGLTESRVQVWFQNRRAKWKKRKKTNTVFRAPGTLLPTPG  
LPQFPSAAAAAAMGDSLCSFHANDTRWAAAAMPGVSQLPLPPALGRQQAMAQSLSQCS  
LAAGPPPSMGLSNSLAGSNGAGLQSHLYQPAFPGMVPASLPGPSNVSGSPQLCSSPDSS  
DVWRGTSIASLRRKALEHTVMSMFT

>sp|Q96FW1|OTUB1\_HUMAN Ubiquitin thioesterase OTUB1 OS=Homo sapiens GN=OTUB1 PE=1 SV=2

MAAEEPQQKQKEPLGSDSEGVNCLAYDEAIMAQDRIQEIIVQNPLVSRLELSVLYKE  
YAEDDNIYQQKIKDLHKKYSYIRKTRPDGNCFYRAFGFSHLEALLDDSKELQRFKAVSAK  
SKEDLVSQGFTEFTIEDFHNTFMDLIEQVEKQTSVADLLASFNDQSTSDYLVVYLRLLTS  
GYLQRESKFFEHFIEGGRTVKEFCQEQVEPMCKESDHIHIALAQALSVSIVQEYMDRGE  
GGTTNPHIFPEGSEPKVYLLYRPGHYDILYK

>sp|Q8WZ82|OVCA2\_HUMAN Esterase OVCA2 OS=Homo sapiens GN=OVCA2 PE=1 SV=1

MAAQRPLRVLCLAGFRQSERGFREKTGALRKALRGRAELVCLSGPHVPDPPGPEGARSD  
FGSCPPEEQPRGWWFSEQEAADVFSALEEPAVCRGLEESLGMVAQALNRLGPFDGLLGFSQ  
GAALAAALVCALGQAGDPRFPLPRFILLVSGFCPRGIGFKESILQRPLSLPSLHVFGDTDK  
VIPSQESVQLASQFPGAITLTHSGGHFIPAAAPQRQAYLKFLDQFAE

>sp|Q8N7R1|P1L12\_HUMAN POM121-like protein 12 OS=Homo sapiens GN=POM121L12 PE=2 SV=3

MGAAAPAESADLGNFWKAGEPLLQGPDALAAPMSRSPSTPQTTPSPQGRQSPWPLRSLTQ  
SHIQYFQWGRVPVSTHLIEVRPTQDPAKPQRRVSEGWRRPALPGETALGRDLSCAWEGCM  
KGGLCRAWNPGRTWSPVTIGIAPPERQESPWRSPGQRARPAGRPAAQELDPCTRETLLG  
ALSQCPKGSARFDGPLWFEVSDSKGGRRNLQPRPSAFKPLSKNGAVASFVPRPGPLKPSL  
GPWSLSFCDDAWPSVLVQPAPSAIWDFWEATTPSCGSCSRVSFALEVTQSAGPFGS

>sp|Q96A73|P33MX\_HUMAN Putative monooxygenase p33MONOX OS=Homo sapiens GN=KIAA1191 PE=1 SV=1

MASRQPEVPALEASAPLGKMSLPIGIYRRVSYDDTLEDPAPMTPPPSDMGSPWPKVIP  
ERKYQHLAKVEEGEASLSPAMTLSSAIDSVDKVPVVKAKATHVIMNSLITKTQESIQH  
FERQAGLRDAGYTPHKGLTTEETKYLRVAEALHKLKLSGSEVTKEERQPASAQSTPSTTP  
HSSPKQRPRGWFTSGSSTALPGPNPSTMDSGSGDKDRNLSDKWSLFGPRSLQKYDSGSFA  
TQAYRGAQKPSPLELIRAQANRMAEDPAALKPPKMDIPVMEGKKQPPRAHNLKPRDLNVL  
TPTGF

>sp|000750|P3C2B\_HUMAN Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta OS=Homo sapiens GN=PIK3C2B PE=1 SV=2

MSSTQNGNEHWSKLESVGISRKELAMAEALQMEYDALSRHRDKEENRAKQADPSLISW  
DEPGVDFYSKPAGRRDCLKLLRGLSGSDPTLNYSLSLSPQEGPPNHSTSQGPQPGSDPWPK  
GSLSGDYLYIFDGSDDGVSSSPGPGDIEGSCKKLSPPPLPPRASIWDTPPLPPRKGSPSS  
SKISQPSDINTFSLVEQLPGKLEHRILEEEVVLGGGGQGRLLGSVDYDGINDAITRLNL  
KSTYDAEMLRDATRGWKEGRGPLDFSKDTSGKPVARSKTMPQVPPRTYASRYGNRKNAT  
PGKNRRISAAPVGSRPHTVANGHELFEVSEERDEEVAAFCHMLDILRSGSDIQDYFLTGY  
VWSAVTPSPEHLGDEVNLKVTVLCDRLQEALTFTCNCSSTVDLLIYQTLCTHDDLNRVD  
VGDFVLKPCGLEEFLLQNKHALGSHEYIQYCRKFDIDIRLQLEQKVVRSDLARTVNDQDS  
PSTLNLVHLQERPVKQTISRQALSLLFDTYHNEVDAFLADGDFPLKADRVVQSVKAIC  
NALAAVETPEITSALNQLPPCPSRMQPKIQKDPVSLAVRENREKVVEALTAAILDLVELY  
CNTFNADFQTAVPGSRKHDLVQEACHFARSLAFTVYATHRIPIIWATSYEDFYLSCSLSH  
GGKELCSPLQTRRAHFSKYLFHLIVWDQQICFPVQVNRLPRETL CATLYALPIPPPGSS  
SEANKQRRVPEALGWVTTPLNFNRQVLTGGRKLLGLWPATQENPSARWSAPNFHQPD SVI  
LQIDFPTSAFDIKFTSPPGDKFSRPFYFGSLREEDQRKLDIMQKESLYWLTADKKRLW  
EKRYCHSEVSSLPLVLASAPSEWACLPDIYVLLKQWTHMNHQDALGLLHATFPDQEV  
RMAVQWIGSLSDAELLDYLPQLVQALKYECYLDSPVRFLLKRAVSDLRVTHYFFWLLKD  
GLKDSQFSIRYQYLLAALLCCCGKGLREEFNRCWLNALAKLAQQVREAAPSARQGILR  
TGLEEVKQFFALNGSCLPLSPSLLVKGIVPRDCSYFNSNAVPLKLSFQNVDPGENIRV  
IFKCGDDLQDMLTLQIMIRIMSKIWVQEGLDMMVIFRCFSTGRGRGMVEMIPNAETLRK  
IQVEHGVTSFKDRPLADWLQKHNPGEDEYEKAVENFIYSCAGCCVATYVLGICDRHNDN  
IMLKTTHGMFHIDFRGLGHAQMFGNIKRDRAPFVFTSDMAYVINGGDKPSSRFHDFVDL  
CCQAYNLIRKHTHLFLNLLGLMLSCGIPELSDLEDLYVYDALRPQDTEANATTYFTRLI  
ESSLGSVATKLNFFIHNLAQMKFTGSDDRLTSLFASRTHTLKSSGRISDVFLCRHEKIFH  
PNKGYIYVVKVMRENTHEATYIQRTEEFQELHNKLRLLPSSHLPSFSPRFVIGRSRGE  
AVAERRREELNGYIWHLIHAPPEVAECDLVYTFHPLPRDEKAMGTSPAPKSSDGTWARP  
VGKVGGEVKLSISYKNNKLFIMVMHIRGLQLLQDGNPDYPVKIYLLPDPQKTKRKT KV  
ARKTCNPTYNEMLVYDGIPKGDLLQRELQLSVLSEQGFWENVLLGEVNIRLRELDLAQEK  
TGWFALGSRSHGTL

>sp|Q96FE7|P3IP1\_HUMAN Phosphoinositide-3-kinase-interacting protein 1 OS=Homo sapiens GN=PIK3IP1 PE=1 SV=2

MLLAWVQAFVLSNMLLAAYGSGGCFWDNGHLYREDQTSPAPGLRCLNWLDAQSGLASAP  
VSGAGNHSYCRNPDEPRGPWCYVSGEAGVPEKRPCEDLRCPETTSQALPAFTTEIQEAS  
EGPGADEVQVFAPANALPARSEAAAVQPVIGISQVRMNSKEKKDLGTLGYVLGITMMVI  
IIAIGAGIILGYSYKRGKDLKEQHDQKVCEREMQRITLPLSAFTNPTCEIVDEKTVVVHT  
SQTPVDPQEGTTPLMQAGTPGA

>sp|P13674|P4HA1\_HUMAN Prolyl 4-hydroxylase subunit alpha-1 OS=Homo sapiens GN=P4HA1 PE=1 SV=2

MIWIYILIIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSCLKDYIKAEEDKLEQIKKWA  
EKLDRLTSTATKDPEGFVGHPVNAFKLMKRLNTEWSELENVLKDMSDGFISNLTIQRQY  
FPNDEDQVGAALKLLRLQDTYNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADY  
YHTELWMEQALRQLDEGEISTIDKVSVDLYSYAVYQQGDLDKALLTKKLELDPEHQ  
ANGNLKYFEYIMAKEKDVNKSASDDQSDQKTPKKKGVAVDYLPERQKYEMLCRGEIGKM

TPRRQKKLFCRYHDGNRNPKFILAPAKQEDEWDKPRIIRFHDIIISDAEIEIVKDLAKPRL  
RRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGLDVSTAEELQVANY  
GVGGQYEPHFDFARKDEPDAFKELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKG  
TAVFWYNLFASGEGDYSTRHAACPVLVGKWWVSNKWLHERGQEFRRPCTLSELE

>sp|Q7Z4N8|P4HA3\_HUMAN Prolyl 4-hydroxylase subunit alpha-3 OS=Homo sapiens GN=P4HA3 PE=1  
SV=1

MGPGARLAALLAVLALGTGDPERAAAARGDTFSALTSVARALAPERRLGLLRRYLRGEEA  
RLRDLTRFYDKVLSLHEDSTTPVANPLLAFTLIKRLQSDWRNVVHSLEASENIRALKDGY  
EKVEQDLPAFEDLEGAARALMRLQDVYMLNVKGLARGVFQRTGSAITDLYSPKRLFSLT  
GDDCFQVGKVAYDMGDYYHAIPWLEEAVSLFRGSYGEWKTEDEASLEDALDHLAFAYFRA  
GNVSCALSLSREFLLYSPDNKRMARNVLYERLLAESPNHVVAEAVIQRPNIPHLQTRDT  
YEGLCQTLGSQPTLYQIPSLYCSYETNSNAYLLLQPIRKEVIHLEPYIALYHDFVSDSEA  
QKIRELAEPWLQRSVVASGEKQLQVEYRISKSAWLKDTVDPKLVTLNHRIAALTGLDVRP  
PYAEYLQVVNYGIGGHYEPHFHDATSPSSPLYRMKSGNRVATFMIYLSSEAGGATAFIY  
ANLSVPVVRNAALFWWNLHRSGEGSDTLHAGCPVLVGDKWVANKWIHEYGQEFRRPCSS  
SPED

>sp|Q6IN85|P4R3A\_HUMAN Serine/threonine-protein phosphatase 4 regulatory subunit 3A  
OS=Homo sapiens GN=PPP4R3A PE=1 SV=1

MTDTRRRVKVYTLNEDRQWDDRGTHGVSSGYVERLKGMSLLVRAESDGSLLLESKINPNT  
AYQKQQDTLIVWSEAENYDLALSFQEKAGCDEIWEKICQVQKDPDSDITQDLVDESEEE  
RFDDMSSPGLELPSCELSRLEEIAELVASSLPSPLRREKLALALENEGVIKKLLELFHVC  
EDLENIEGLHHLYEIIKGIFFLLNRTALFEVMFSEECIMDVIGCLEYDPALSQPRKHREFL  
TKTAKFKEVIPISDPELKQKIHQTYRVQYIQDMVLPTPSVFEENMLSTLHSFIFFNKVEI  
VGMLQEDEKFLTDLFAQLTDEATDEEKRQELVNFLKEFCAFSQTLPQNRDAFFKTLNLM  
GILPALEVILGMDDTQVRSAAITDIFSYLEYNPSMVREFVMQEAQQNDDVSKKLTEQKIT  
SKDILLINLIIEMHICDTPDELGGAVQLMGLLRTLVDPENMLATANKTEKTEFLGFFYKH  
CMHVLTAPELLANTTEDKPSKDDFQTAQLLALVLELLTFCVEHHTYHIKNYIINKDILRRV  
LVLMAKHAFLALCALRFKRKIIIGLKDEFYNRYIMKSFLFEPVVKAFLNNGSRYNLMNSA  
IIEMFEFIRVEDIKSLTAHVIENYKALEDVDYVQTFKGLKLRFEEQQRERQDNPKLDSMR  
SILRNHRYRRDARTLEDEEEMWFNTDEDDMEDGEAVVSPSDKTKNDDIMDPI SKFMERK  
KLKESEEEKVLLKTNLSGRQSPFKLSLSSGTKTNLTSQSSTNLPSPGSPGSPGSPGSPG  
PGSVPKNTSQTAAITTKGLVGLVDYPDDDEDDDEDEDKEDTLPLSKKAKFDS

>sp|O43422|P52K\_HUMAN 52 kDa repressor of the inhibitor of the protein kinase OS=Homo  
sapiens GN=THAP12 PE=1 SV=2

MPNFCAAPNCTRKSTQSDLAFFRFRDPARCQKWVENCRRADLEDKTPDQLNKHYRLCAK  
HFETSMICRTSPYRTVLRDNAIPTIFDLTSHLNNPHSRHRKRIKELSEDEIRTLKQKKID  
ETSEGEQKHKETNNSNAQNPSEEEGEGQDEDILPLTLEKENKEYLKSLEILILMGKQN  
IPLDGHEADEIPEGLFTPDNFQALLECRINSGEVLRKRFETTAVNTLFCSKTQQRQMLE  
ICESCIREETLREVRDSSHFSIITDDVVDIAGEEHLVPLVRFVDESHNLREEFIGFLPYE  
ADAEILAVKFHTMITKWLGNMEYCRGQAYIVSSGFSSKMKVVASRLLEKYPQAIYTLCS  
SCALNMWLAKSVPMGVSVALTIEEVCSFFHRSPQLLELDNVISVLFQNSKERGKELK  
EICHSQWTGRHDAFEILVELLQALVLCLDGINSNTNIRWNNYIAGRAVLCASVSDFDI  
VTIVVLKNVLSFTRAFGKNLQGGTSDVFFAAGSLTAVLHSLNEVMENIEVYHEFWFEEAT  
NLATKLDIQMKLPGKFRRAHQGNLESQLTSESYYKETLSVPTVEHIIQELKDIFSEQHLK

ALKCLSLVPSVMGQLKFNTSEEHHADMYRSDLPNPDTLSAELHCWRIKWKHGKDIELPS  
TIYEALHLPDIKFFPNVYALLKVLCLPVMKVENERYENGRKRLKAYLRNTLTDQRSSNL  
ALLNINFDIKHDLDMVDITYIKLYTSKSELPTDNSETVENT

>sp|014683|P5I11\_HUMAN Tumor protein p53-inducible protein 11 OS=Homo sapiens GN=TP53I11  
PE=1 SV=2

MAAKQPPPLMKKHSQTDLVSRKTRKILGVGGEDDDGEVHRSKISQVLGNEIKFTIREPL  
GLRVWQFVSAVLFSGIAIMALAFPDQLYDAVFDGAQVTSKTPIRLYGGALLSISLIMWNA  
LYTAEKVIIRWTLLEACYFGVQFLVVTATLAETGLMSLGILLLLVSRLLFVVISIYYYY  
QVGRRPKKA

>sp|Q8IZE3|PACE1\_HUMAN Protein-associating with the carboxyl-terminal domain of ezrin  
OS=Homo sapiens GN=SCYL3 PE=1 SV=3

MGSSENSALKSYTLREPPFTLPSGLAVYPAVLQDGKFASVFVYKRENEKVNKAACHLKLTL  
RHPCLLRFLSCTVEADGIHLVTERVQPLEVALETLSAEVCAGIYDILLALIFLHDRGHL  
THNNVCLSSVFVSEDGHWKLGGMETVCKVSQATPEFLRSIQSIRDPAIPPEEMSPEFTT  
LPECHGHARDAFSFGLVESLLTILNEQVSADVLSSFQQLHSTLLNPICKRPACTLL  
SHDFFRNDLFLEVNFLLKSLTLKSEEEKTEFFKFLLDVRSCLSEELIASRLVPLLLNQLVF  
AEPVAVKSFLPYLLGPKKDHAQGETPCLLSPALFQSRVIPVLLQLFEVHEEHVRMVLLSH  
IEAYVEHFTQEQLKKVILPQVLLGLRDTSDSIVAITLHSLAVLVSLLGPEVVVGGERTKI  
FKRTAPSFTKNTDLSLEDSPMCVVCSSHSQISPILENPFSIFPKCFFSGSTPINSKKHI  
QRDYNTLLQTGDPFSQPIKFPINGLSDVKNTSEDSENFPSSSKSEEWPDWSEPEEPEN  
QTVNIQIWPREPCDDVKSQCTTLDVEESSWDDCEPSSLDTKVNPGGGITATKPVTSGEQK  
PIPALLSLTEESMPWKSSLPQKISLVQRGDDADQIEPPKVSSQERPLKVPSELGLGEEFT  
IQVKKKPVKDPEDMWFADMIPEIKPSAAFLILPELRTMVPPKDDVSPVMQFSSKFAAAE  
ITEGEAEGWEEEGELNWEDNNW

>sp|Q9UNF0|PACN2\_HUMAN Protein kinase C and casein kinase substrate in neurons protein 2  
OS=Homo sapiens GN=PACSIN2 PE=1 SV=2

MSVTYDDSVGVEVSSDSFWEVGNKRTVKRIDDGHRCLSDLMNCLHERARIEKAYAQQLT  
EWARRWRQLVEKGPQYGTVEKAWMAFMSEAERVELHLEVKASLMNDDFEKIKNWQKEAF  
HKQMMGGFKETKEAEDGFRKAQKPWAKKLKEVEAAKKAHHAACKEEKLAISSREANSKADP  
SLNPEQLKKLQDKIECKQDVLKTKEYEKSLELDQGTPQYMNMEQVFEQCQQFEKR  
LRFREVLLEVQKHLDSLNVAGYKAIYHDLEQSIRAADAVEDLRWFRANHGPGMAMNWPQ  
FEESADLNRTLNRREKKKATDGVTLTGINTGDQSLSPKSSTLNVPSNPAQSAQSQS  
YNPFEDEDDTGSTVSEKDDTKAKNVSSYEKTSYPTDWSDDSENPFSSDANGDSNPF  
DDATSGTEVRVRALYDYGQEHDELSEFKAGDELTKMEDEDEQGWCKGRLDNGQVGLYPAN  
YVEAIQ

>sp|096013|PAK4\_HUMAN Serine/threonine-protein kinase PAK 4 OS=Homo sapiens GN=PAK4 PE=1  
SV=1

MFGKRKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACIT  
SIQPGAPKTIVRSGKGAKDGALTLLDEFENMSVTRNSLRRDSPPPPARARQENGMPPEE  
PATTARGGPGKAGSRGRFAGHSEAGGSGDRRRAGPEKRPKSSREGSGGPQESSRDKRPL  
SGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQGEPHDVAPNGPSAGGLAIP  
QSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVPGPPGPRSPQREPQRVS  
HEQFRAALQLVDPGDPRLSYLDFIKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQR  
ELLFNEVVIMRDYQHENVVEMYSYLVGDELWVVMFLEGGALTDIVTHTRMNEEQIAAV

CLAVLQALSVLHAQGVIIHRDIKSDSILLTHDGRVKLSDFGFCAQVSKEVPRRKSLVGTPY  
WMAPELISRLPYGPEVDIWSLIGIMVIEMVDGEPPYFNEPPLKAMKMIRDNLPPRLKNLHK  
VSPSLKGFDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

>sp|Q9Y536|PAL4A\_HUMAN Peptidyl-prolyl cis-trans isomerase A-like 4A OS=Homo sapiens  
GN=PPIAL4A PE=2 SV=1

MVNSVVFDDITVDGKPLGRISIKLFADKILKTAENFRALSTGEKGFYKGSCHFRIIPGF  
MCQGGDFTRHNGTDKSIYGEKFDDENLIRKHTGSGILSMANAGPNTNGSQFFICAAKTE  
WLDGKHVAFGKVKERNIVEAMEHFGYRNSKTSKKITIIDCGQF

>sp|Q9ULE6|PALD\_HUMAN Paladin OS=Homo sapiens GN=PALD1 PE=1 SV=3

MGTTASTAQQTVSAGTPFEGLQSGTMSRHSVSIHSFQSTSLHNSKAKSIIPNKVAPVV  
ITYNCKEEFQIHDELLKAHYTLGRLSDNTPEHYLVQGRYFLVRDVTEKMDVLGTVGSCGA  
PNFRQVQGGLTVFGMGQPSLSGFRRLVQLKQKDGHRECVIFCVREEPVLFLRADEDFVSY  
TPRDKQNLHENLQGLGPGVRVESLELAIRKEIHDFAQLSENTYHVYHNTEDLWGEPHAVA  
IHGEDDLHVTEEVYKRPLFLQPTYRYHRLPLPEQGSPLAQDLAFVSVLRETPSLLQLRD  
AHGPPPALVFSCMGVGRTNLGMVLGTLILLHRSGTTSQPEAAPTQAKPLPMEQFQVIQS  
FLRMVPQGRRMVEEVDRITACAEHLDLKEVVLENQKKLEGIRPESPAQSGSGSRHSVWQR  
ALWSLERYFYLLIFNYLHEQYPLAFALSFSRWLCAHPELYRLPVTLSAGPVAPRDLIA  
RGSLEDLVLSPDALSTVREMDVANFRVRPMPIYGTAQPSAKALGSILAYLTDKRRRLR  
KVVVWSLREEAVLECDGHTYSLRWPGPPVAPDQLETLEAQLKAHLSEPPPGKEGPLTYRF  
QTCLTMQEVFSQHRRACPLTYHRIPMPDFCAPREEDFDQLLEALRAALSKDPGTGFVFS  
CLSGQGRTTTAMVVAVLAFWHIQQGFPEVGEEELVSVDAKFTKGEFQVVMKVVLQLLPDGH  
RVKKEVDAALDTVSETMTPMHYHLREIIICTYRQAKAAKEAQEMRRLQLRSLQYLERVC  
LILFNAYLHLEKADSWQRPFSTWMQEVASKAGIYEILNELGFPELESGEDQPFSLRYRW  
QEQSCSLEPSAPEDLL

>sp|Q8TE04|PANK1\_HUMAN Pantothenate kinase 1 OS=Homo sapiens GN=PANK1 PE=1 SV=2

MLKLVGSGGGQDWACSVAGTSLGGEEAAFEVARPGDQKAGGGSPGWCAGIPDSAPGAG  
VLQAGAVGPARGGQGAEEVGESAGGGEERRVRHPQAPALRLLNRKPQGGSGEIKTPENDL  
QRGRLSRGPRTAPPAPGMGDRSGQQERSVPHSPGAPVGTSAAAVNGLLHNGFHPPPVQPP  
HVCSRGPVGGSDAAPQLRPLPELQPQPLLPQHDSPAKKCRLRRRMDSGRKNRPPFPWFG  
MDIGGTLVKLVYFEPKDITAEQQEEVENLKSIRKYLTSTAYGKTGIRDVHLELKNLTM  
CGRKGNLHFIKFPSCAMHRFIQMGSEKNFSSLHTTLCATGGGAFKFEEDFRMIADLQLHK  
LDELDCLIQGLLYVDSVGFNGKPECYFENPTNPELCQKKPYCLDNYPMLLVNMGSGVS  
ILAVYSKDNYKRVGTSLGGGTFLGLCCLLTGCETFEEALEMAAKGDSTNVDKLVKDIYG  
GDYERFGLQGSAVASSFGNMMSKEKRDSSISKEDLARATLVTITNIGSIARMCALNENID  
RVVVFVGNFLRINMVSMKLLAYAMDFWSKGQLKALFLEHEGYFGAVGALLELFKMTDDK

>sp|Q9H999|PANK3\_HUMAN Pantothenate kinase 3 OS=Homo sapiens GN=PANK3 PE=1 SV=1

MKIKDAKKPSFPWFMDIGGTLVKLSYFEPIDITAEQQEEVESLKSIRKYLTSTNAVYGS  
TGIRDVHLELKDLTIFGRRGNLHFIKFPQDLPTFIQMGDKNFSTLQTVLCATGGGAYK  
FEKDFRTIGNLHLHLDELDCLVKGLLYIDSVSFGQAECYFANASEPERCQKMPFNLD  
DPYPLLVVNIGSGVSLAVHSKDNYKRVGTSLGGGTFLGLCSLLTGCESFEEALEMASK  
GDSTQADKLVRDIYGGDYERFGLPGWAVASSFGNMIYKEKRESVSKEDLARATLVTITNN  
IGSVARMCVNEKINRVVFGNFLRVNTLSMKLLAYALDYWSKGQLKALFLEHEGYFGAV  
GALLGLPNFS

>sp|Q12889|OVGP1\_HUMAN Oviduct-specific glycoprotein OS=Homo sapiens GN=OVGP1 PE=2 SV=1

MWKLLLVWGLVLVLKHHGAAHKLVCYFTNWAHSRPGPASILPHDLDPFLCTHLIFAFAS  
MNNNQIVAKDLQDEKILYPEFNKLKERNRELKTLLSIGGWNFGTSRFTTMLSTFANREKF  
IASVISLLRTHDFDGLDLFFLYPLGRGSPMHRWTFLFLIEELLFAFRKEALLTMRPRL  
LSAAVSGVPHIVQTSYDVRFLGRLLDFINVLSYDLHGSEWERFTGHNSPLFSLPEDPKSSA  
YAMNYWRKLGAPSEKLIMGIPTYGRTFRLLKASKNGLQARAIGPASPGKYTKQEGFLAYF  
EICSFWGAKKHWIDYQYVPYANKGKEWVGYN AISFSYKAWFIRREHFGGAMVWTLDM  
DVRGTFCGTGPFPLVYVLNDILVRAEFSSTSLPQFWLSSAVNSSSTDPERLAVTTAWT  
D SKILPPGGEAGVTEIHGKCENMTITPRGTTVTPTKETVSLGKHTVALGEKTEITGAMT  
MT SVGHQSMTPEGKALTPVGHQSVTGQKTLTSVGYQSVTPGEKTLTPVGHQSVPVSHQSV  
SPGGTTMTPVHFQTETLRQNTVAPRRKAVAREKVTVPSRNISVTPEGQTMPLRGENLTSE  
VGTHPRMGNLGLQMEENRMMMLSSSPVIQLPEQTPLAFDNRFPVIYGNHSSVNSVTPQTS  
PLSLKKEIPENSAVDEEA

>sp|O00110|OVOL3\_HUMAN Putative transcription factor ovo-like protein 3 OS=Homo sapiens  
GN=OVOL3 PE=3 SV=3

MPRAFLVRSRRPQPPNWHLPDQLRGDAYIPGGPLTPVGGKGQERRSVTIWLFSSDCSSL  
GGPPAQQSSSVRDPWTAQPTQGNLTSAPRGPGTLGCPLCPKAFPLQRMLTRHLKCHSPVR  
RHLRCRCCKGFHDAFDLKRHMRTHTGIRPFRCACGKAFTQRCSEAHAKVHGQPAS  
YARERREKLHVCEDCGFTSSRPDTYAQHRALHRAA

>sp|Q6IE36|OVOS2\_HUMAN Ovostatin homolog 2 OS=Homo sapiens GN=OVOS2 PE=2 SV=2

MTGSHLSHDSWQYVLLIPSVLQEGSLDKACAQLFNLTESVVLTVSLNYGEVQTKIFEENV  
TGENFFKCISFEVPQARSDPLAFITFSAKGATLNLEERRSVAIRSRENVFVQTDKPTYK  
PGQKDVNGIAQFFLDYTFYTPNITLKDPPQNNRIFQWQNVTSFRNITQLSFQLISEPMFG  
DYWIVVKRNSRKTVTHTQFAVKRYVLPKFEVTNAPQTVTISDDEFQVDVCAKYTFGQPVQ  
GKTQIRVCREYFSSSNCEKNDNEICEQFIAQLENGCVSQIVNTKVFQLYRSGLFMTFHVA  
VIVTEFGTGNYCMQISEKTSVFITQLLGTNVFENMDTFYRRGISYFGTLKFSDPNNVPMV  
NKLQLLELNDDEFIGNYTTDENGAEQFSIDTSDIFDPEFNLKATYVRPKSCYLPSWLT  
PQY LDAHFLVSRFYSRTNSFLKIVPEPKQLECNHQKVTVHYSLNSEAYEDDSNVKFFYL  
VSL SHDSGNFQHRISSPITYAWNGNFSFPLSISADLAPAAVLVYTLHPSGEIVADSVRFQV  
DKCFKHVKNIKFSNEQGLPGSNASLYLQAAPVLFCAVGAVDGNVLLKSEQQLSAESVYN  
MVPSIEPYGYFYHGLNLDDGKEDPCIPQRDMFYNGLYYTPVSNYGDGDIYNIVRMGLKV  
FTNLHYRKPEVCVMERRLPLPKPLYLETENYGPMSVPSRIACRGENADYVEQAI IQTVR  
TNFPETWMWDLVSVDSSGSANLSFLIPDTITQWEASGFCVNGDVGFISSTTTLEVSQPF  
FIEIASPFSVQNEQFDLIVNAFSYLNCTVEISVQVEESQNYEANTWKINGSEVIQAG  
GRKTNITWTIIPKKLGKVNITVVAESKQSSACPNEGMEQQKLNWKDVTVKSFLVEPEGIEK  
ERTQSFLICTEGAKASKQGVLDLPNDVVEGSARGFFT  
VVGDLGLAMQNLVVLQMPYGGG EQNAALLASDTYVLDYLKSTEQLTEEVQSKAFFLLSNGYQRQLSFKNSDGSYSVFWQQNQ  
KGSIWLSALTFTKTLERMKKFVFIDENVQKQTLIWLSSQKTS  
GCFKNDGQLFNHAWEGGD EEDISLTAYVVGMMFEAGLNSTFPALRNALFCLEAALDSGVTNGYNHAILAYAFALAGKE  
KQVESLLQTL  
DQSATKLNNVIYWERERKPKTEEFPSFIPWAPSAQTEKSCYVLLAVISRK  
IPDLTYASKIVQWLAQQMNSHGGFSSNQVINVGLILIAICGEEGLFSKNQNTVTFSS  
EGS SEIQFNNGHNRLLVQRSEVTQAPGQYTVDVEGRGCTFIQATLKYNVLLPKKASGFSLSLEI  
VKNYSLTVFDLTVNLKYTGIRNKSSMVVIDVKMLSGFTPTMSSIEELENKGQVMKTEVKN  
DHVLFYLENVFGRADSFTFSVEQSNLVFNIQPAPGMVYDYEEKDGEAFLLTN

>sp|O43613|OX1R\_HUMAN Orexin receptor type 1 OS=Homo sapiens GN=HCRT1 PE=1 SV=2

MEPSATPGAQMGVPPGSREPSVPPDYEDFLRYLWRDYLYPEKQYEWVLI AAYVAVFVVA  
LVGNTLVCLAVWRNHMRTVTNYFIVNLSLADVLVTAICLPASLLVDITESWLF<sup>GH</sup>ALCK  
VIPYLQAVSVSAVL<sup>TL</sup>SFIALDRWYAICHPLL<sup>FK</sup>STARRAR<sup>GS</sup>SILGIWAVSLAIMVPQA  
AVMECSSVLPELANR<sup>TL</sup>FSVCDERWADDLYPKIYHSCFFIVTYLAPLGLMAMAYFQIFR  
KLWGRQIPGTTSALVRNWKRP<sup>SD</sup>QLGDLEQGLSGEPQPRARAFLAEVKQMRARRKTAKML  
MVVLLVFALCYLPISVLNVLKR<sup>VF</sup>GMFRQASDREAVYACFTFSHWLVYANSAANPIIYNF  
LSGKFREQFKA<sup>AF</sup>SCCLPGLGPCGSLKAPSPRSSASHKSLSLQSRCSISKISEHVLT<sup>SV</sup>  
TTVLP

>sp|Q15070|OXA1L\_HUMAN Mitochondrial inner membrane protein OXA1L OS=Homo sapiens  
GN=OXA1L PE=1 SV=3

MAMGLMCGRRELLRL<sup>L</sup>QSGRRVHSVAGPSQWL<sup>G</sup>KPLTTRLLFPVAPCCCRPHYLFLAASG  
PRSLSTS<sup>AI</sup>SFAEVQVQAPPVVAATPSPTAVPEVASGETADV<sup>V</sup>QTAAEQSFAELGLGSYT  
PVGLIQNLLEFMHVDLGLPWWGAIAACTVFARCLIFPLIVTGQREAA<sup>RI</sup>HNHLPEIQKFS  
SRIREAKLAGDHIEYKASSEMALYQKKHG<sup>IK</sup>LYKPLILPVTQAPIFISFFIALREMANL  
PVPSLQTGGLWWFQDLTVSDPIYILPLAVTATMWAVLELGAETGVQSSDLQWMRNVIRMM  
PLITLPI<sup>TM</sup>HFTAVFMYWLSSNLFSLVQVSCLRIPAVRTVLKIPQRVVHDLKLP<sup>PRE</sup>G  
FLESFKKGWKN<sup>AE</sup>MRTRQLREREQMRN<sup>Q</sup>LELAARGPLRQTFTHNPLLQPGKDNPPNIPSS  
SSKPKSKYPWHD<sup>TL</sup>G

>sp|A6NF01|P121B\_HUMAN Putative nuclear envelope pore membrane protein POM 121B OS=Homo sapiens  
GN=POM121B PE=5 SV=2

MSRRVRTSELWKRNGPSSSPFSSPASSRSQTPERPAKKIREEEMCHHSSSTPLAADKES  
QGEKAADTT<sup>PR</sup>KKQNSNSQSTPGSSGQRKRK<sup>V</sup>QLLPSRRGEQLTLPPPPQLGYSITAEDL  
DLEKKASLQWFNQALEDKSDAASNSVTETPPITQPSFTFTLPA<sup>AA</sup>PASPPTSLLAPSTNP  
LLES<sup>L</sup>KKMQTPPSLPPCPESAGAA<sup>TE</sup>ALSPPKTPNLLPPLGLSQSGPPGLLPSPSFD<sup>SN</sup>  
PPTLLGLIPAPSMVPATDTKAP<sup>TL</sup>QAETTTKQATSAPSPAPKQSFLFGTQNTSPSSP  
AAPAASSASPMFKPIFTAPPKSEKEGTPPGPSVSATAPSSSSSLPTTTSTAPT<sup>F</sup>QPVFS  
SMGPPASVPLPAPFFKQTTTPATPTTTAPLFTGLASATS<sup>AV</sup>APITSASPSTDSASKPAF  
GFGINSVSSSSVSTTTSTATAASQPFLFGAPQASAASFTPAMGSIFQFGKPPALPTTTTV  
TTFSQSLPTAVPTATSSSAADFSGFGSTLATSAPATSSQPTLTFSNTSTPTFNIPFGSSA  
KSPLPSYPGANPQPAFGAAEGQPPGA<sup>AK</sup>PALTPSFGSSFTFGNSAAPAAAPTAPPSMIK  
IVPAHVPTPIQPTFGGATHSAFGLKATASAFGAPASSQPAFGGSTAVFSFGAATSSGFGA  
TTQTASSGSSSSVFGSTTPSPFTFGGSAAPAGSGSFGINVATPGSSATTGA<sup>FS</sup>FGAGQSG  
STATSTPFAGGLGQNALGTTGQSTPFAFNVGSTTESKPVFGGTATPTFGLNTPAPGVGTS  
GSSLSFGASSAPAQGFVGVAPFGSAAPSFSIGAGSKTLGARQRLQARRQHTRKK

>sp|A8CG34|P121C\_HUMAN Nuclear envelope pore membrane protein POM 121C OS=Homo sapiens  
GN=POM121C PE=1 SV=2

MSPAAAAAGAGERRRPIASVRDGRGRGCGGPAGAALLGLSLVGLLLYLVPAAAAALAWLAV  
GT<sup>TA</sup>AWWGLSREPRGSRPLSSFVQKARHRTLFASPPAKSTANGN<sup>L</sup>LEPRTLLEGDPDAE  
LLMGSYLGKPGPPQAPAPEGQDLNRNRPGRPPARPAPRSTPPSP<sup>TH</sup>R<sup>V</sup>HHFYPSLPT  
PLL<sup>R</sup>PSGRPSPRDRGTL<sup>P</sup>DRFVITPRRRYP<sup>I</sup>HQTQYSCPGVLPTVCWNGYHKKAVLS<sup>PR</sup>N  
SRMVCSPTVRIAPPDRRFSR<sup>SA</sup>IEQIISS<sup>TL</sup>SSPSSNAPDCAKETVLSALKEKKKKR  
TVEEDQIFLDGQENKRRRHDSGSGHSAFEPLVASGVPASFV<sup>PK</sup>PGSLKRGLNSQSSDD  
HLNKRSSSSMSSLTGAYTSGIPSSRNAITSSYSSTRGISQLWKRNGPSSSPFSSPASS  
RSQTPERPAKKIREEELCHHSSSTPLAADKESQGEKAADTT<sup>PR</sup>KKQNSNSQSTPGSSGQ



RKRKVQLPSRRGEQLTLPPPPQLGYSITAEDLDLEKKASLQWFNQALEDKSDAASNSVT  
ETPPTTQPSFTFTLPAATASPPTSLLAPSTNPLLESKKMQTPPSLPPCPESAGAATTE  
ALSPPKTPSLLPPLGLSQSGPPGLLSPSFDSPPTTLLGLIPASMPVATDTKAPPTLQ  
AETATKPQATSAPSPAPKQSFLFGTQNTSPSSPAAPAASSASPMFKPIFTAPPKSEKEGP  
TPPGPSVTATAPSSSSLPTTTSTTAPTQPVFSSMGPPASVPLPAPFFKQTTTPATAPTT  
TAPLFTGLASATSAPVITSASPSTDSASKPAFGFGINSVSSSSVSTTTSTATAASQPFL  
FGAPQASAASFTPAMGSIFQFGKPPALPTTTTVTTFSQLPTAVPTATSSAADFSGFGS  
TLATSAPATSSQPTLTFSNTSTPTFNIPFGSSAKSPLPSYPGANPQAFGAAEQPPGAA  
KPAITPSFGSSFTFGNSAAPAPATAPTAPASTIKIVPAHVPTPIQPTFGGATHSAFGLK  
ATASAFGAPASSQPAFGGSTAVFSFGAATSSGFGATTQTASSGSSSVFGSTTPSPFTFG  
GSAAPAGSGSFGINVATPGSSATTGAFSFGAGQSGSTATSTPFTGGLGQNALGTTGQSTP  
FAFNVGSTTESKPVFGGTATPTFGQNTAPGVGTSGSSLSFGASSAPAQGFVGVGPPFGSA  
APSF SIGAGSKTPGARQRLQARRQHTRKK

>sp|Q9Y5P8|P2R3B\_HUMAN Serine/threonine-protein phosphatase 2A regulatory subunit B''  
subunit beta OS=Homo sapiens GN=PPP2R3B PE=1 SV=2

MPPGKVLQPVLMKMVDELFLYLSEASTQRMLQDCLRRKAPGRDQPTPGDGEQPGAWPT  
APLAAPRPSGLEPPGTPGPGPALPLGAASSPRNAPHVRGTRRSAGTRVVQTRKEEPLPPA  
TSQSIPTFYFPRGRPQDSVNDAVISKIESTFARFPHERATMDDMGLVAKACGCPLYWKG  
PLFYGAGGERTGSVSVHKFVAMWRKILQNCHDDAAKFVHLLMSPGCNYLVQEDFVPFLQD  
VVNTHPGLSFLKEASEFHSRYITTVIQRIFYAVNRSWSGRITCAELRRSSFLQNVALLEE  
EADINQLTEFFSYEHFYIYCKFWELDTDHDLLIDADDLARHNDHALSTKMIDRIFSGAV  
TRGRKVQKEGKISYADFVWFLISEEDKKTPTSIEYWFRCDLDDGALSMFELEYFYEEQ  
CRRDLSMAIEALPFQDCLCQMLDLVKPRTEGKITLQDLKRCKLANVFFDTFFNIEKYLDH  
EQKEQISLLRDGDSGGPELSDWEKYAAEEYDILVAETAGEPWEDGFEAELSPVEQKLSA  
LRSPLAQRPFEPSPPLGAVDLLEYACGDEDELEPL

>sp|P56373|P2RX3\_HUMAN P2X purinoceptor 3 OS=Homo sapiens GN=P2RX3 PE=1 SV=2

MNCISDFFTYETTKSVVVKSWTIGIINRVVQLLIISYFVGWVFLHEKAYQVRDTAIESSV  
VTKVKGSGLYANRMDVSDYVTPPQGTSVFVITKMITENQMKGFCPESEEKYRCVSDS  
QCGPERLPGGILTGRCVNYSSVLRTCEIQWCPTVETVETPIMMEAENFTIFIKNSIR  
FPLNFEEKGNLLPNLTARDMKTCTRFHPDKDPFCPILRVGDVVKFAGQDFAKLARTGGVLG  
IKIGWVCDLKAWDQCIPKYSFTRLDSVSEKSSVSPGYNFRFAKYKMEGSEYRTLLKA  
FGIRFDVLVYGNAGKFNIPTIISVAAFTSVGVGTVLCDIILLNFLKGADQYKAKKFEE  
VNETTLKIAALTNPVYPSDQTTAEKQSTDGAFSIGH

>sp|P47900|P2RY1\_HUMAN P2Y purinoceptor 1 OS=Homo sapiens GN=P2RY1 PE=1 SV=1

MTEVLWPAVPNGTDAAFLAGPGSSWGNSTVASTAAVSSSFKALTKTGQFYYPYLPVYIL  
VFIIGFLGNSVAIWMFVFMKPWSGISVYMFNLALADFLYVLTLPALIFYFNKTDWIFG  
DAMCKLQRFIFHVNLYGSILFLTCISAHRYSGVVYPLKSLGRLKKKNAICISVLVWLIVV  
VAISPILFYSGTGVRKNKTITCYDTSDEYLRSYFIYSMCTTVAMFCVPLVLILGCYGLI  
VRALIYKDLDNSPLRRKSIYLVIIIVLTVFAVSYPFHVMKTMNLRARLDFQTPAMCAFND  
RVYATYQVTRGLASLNSCVDPILYFLAGDTFRRLSRATRKASRRSEANLQSKSEDMTLN  
ILPEFKQNGDTS

>sp|000398|P2Y10\_HUMAN Putative P2Y purinoceptor 10 OS=Homo sapiens GN=P2RY10 PE=2 SV=1

MANLDKYTETFKMGSNSTSTAEIYCNVTNVKFQYSLYATTYILIFIPGLLANSAALWVLC  
RFISKKNKAIIFMINLSVADLAHVLSLPLRIYYYISHHWPQFQALCLLCFYLYLNMYAS

ICFLTCISLQRCFFLLKPFRRARDWKRRYDVGISAAIWIVGTACLPPILRSTDLNNKS  
CFADLGKQMNALVGMITVAELAGFVIPVIIIAWCTWKTITSLRQPPMAFQGISERQK  
ALRMVFMCAAVFFICFTPYHINFIFYTMVKETIISCPVVRIALYFHPFCLCLASLCCLL  
DPILYYFMASEFRDQLSRHGSSVTRSLMSKESGSSMIG

>sp|075747|P3C2G\_HUMAN Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing  
subunit gamma OS=Homo sapiens GN=PIK3C2G PE=1 SV=3

MAYSWQTDPNPNESHEKQYEHQEFLFVNQPHSSQVSLGFDQIVDEISGKIPHYESEIDE  
NTFFVPTAPKWDSTGHSLNEAHQISLNEFTSKSRELSWHQVSKAPAIGFSPSVLPKPQNT  
NKECSWGSPIGKHHGADDSRFSILAPSFTSLDKINLEKELENENHNYHIGFESSIPTNS  
SFSSDFMPKEENKRSGHVNIVEPSLMLLKGSQPGMWESTWQKNIESIGCSIQLVEVPQS  
SNTSLASFCKVKKIRERYHAADVNFNSGKIWSTTTAFPYQLFSKTKFNIHIFIDNSTQP  
LHFMPCANYLVKDLIAEILHFCTNDQLLPKDHILSVCGSEEFQNDHCLGSHKMFQKDKS  
VIQLHLQKSREAPGKLSRKHEEDHSQFYLNQLLEFMHIWKVSRQCLLTIRKYDFHLKYL  
LKTQENVYNIIEEVKKICSVLGCVETKQITDAVNELSLILQRKGENFYQSSETSAGLIE  
KVTTELSTSIYQLINVYCNSFYADFQPVNVPRTSYLNPGLPSHLSFTVYAAHNIPETWV  
HRINFPLEIKSLPRESMLTVKLFGIACATNNANLLAWTCLPLFPKEKSILGSMLFSMTLQ  
SEPPVEMITPGVWDVSQSPVTLQIDFPATGWEYMKPDSEENRSNLEEPLKECIKHIARL  
SQKQTPLLLSEKKRYLWFYRFYCENNENCSLPLVLGSAPGWDERTVSEMHTILRRWTFSQ  
PLEALGLLTSSFPDQEIRKVAVQQLDNLNDELLEYLPQLVQAVKFEWNLESPLVQLLLH  
RSLQSIQVAHRLYWLKNAENEAYFKSWYQKLLAALQFCAGKALNDEFSKEQKLILKILGD  
IGERVSASDHRQREVKKIEIGRLEEFDVNTCHLPLNPALCIKIDHDACSFTSNAL  
PLKITFINANPMGKNISIIFKAGDDLQDMLVLQLIQVMDNIWLQEGLDQMIIYRCLST  
GKDQGLVQMPDAVTLAKIHRHSLIGPLKENTIKKWFQHNHLKADYEKALRNFFYSCA  
GWCVVTFILGVCDRHNDNIMLTKSGHMFHIDFGKFLGHAQTFGGIKRDRAPFIFTSEMEY  
FITEGGKNPQHFQDFVELCCRAYNIIRKHSQLLLNLLEMLLYAGLPELSGIQDLKYVYNN  
LRPQDTDLEATSHFTKKIKESLECFPVKLNNLIHTLAQMSAISPAKSTSQTFPQESCLLS  
TTRSIERATILGFSKKSSNLYLIQVTHSNNETSLTEKSFEQFSKLHSQLKQFASLTLP  
FPHWWHLPTNSDHRFRDLNHYMEQILNVSHVETNSDCVLSFFLSEAVQQTVEESSPVY  
LGEKFPDKPKVQLVISYEDVKLTILVKHMKNIHLPDGSAPSAHVEFYLLPYPSEVRRRK  
TKSVPKCTDPTYNEIVVYDEVTELQGHVLMMLIVKSKTVFVGAINIRLCSVPLDKEKWYPL  
GNSII

>sp|Q53H96|P5CR3\_HUMAN Pyrroline-5-carboxylate reductase 3 OS=Homo sapiens GN=PYCRL PE=1  
SV=3

MAAAEPSPRRVGVGAGRMAGAIQGLIRAGKVEAQHILASAPTDRNLCHFQALGCRTH  
SNQEVQLQSCLLVIFATKPHVLPVLAEVAPVVTTEHILVSVAAGVSLSTLEELLPPNTRV  
LRVLPNLPCVVQEGAIVMARGRHVGSSETKLLQHLLEACGRCEEVPEAYVDIHTGLSGSG  
VAFVCAFSEALAEHAVKMGMPSSLAHRIAQAQTLTGAKMLLHEGQHPAQLRSDVCTPGGT  
TIYGLHALEQGGLRAATMSAVEAATCRAKELSRK

>sp|P27986|P85A\_HUMAN Phosphatidylinositol 3-kinase regulatory subunit alpha OS=Homo  
sapiens GN=PIK3R1 PE=1 SV=2

MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSQGGEARPEEIGWLNQYN  
ETTGERGDFPGTYVEYIGRKKISPTPKPRPPRPLPVAPGSSKTEADVEQQALTLPLAE  
QFAPPDIAPLLIKLVEAIEKKGLECSTLYRTQSSSNLAELRQLDCDTPSVDLEMIDVH  
VLADAFKRYLLDLNPVIPAAYSEMISLAPEVQSSEYIQLLKKLIRSPSIPHQYWLTL

QYLLKHFFKLSQTSSKNLLNARVLSEIFSPMLFRFSAASSDNTENLIKVIEILISTEWNE  
RQPAPALPPKPPKPTTVANNGMNNNSLQDAEWYWGDISREEVNEKL RDTADGTFLVRDA  
STKMHGDYTLTLRKGGNKLKIKIFHRDGKYGFSDPLTFSSVVELINHYRNESLAQYNPKL  
DVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEK SREYDRLYEYTRTSQEIQMK  
RTAIEAFNETIKIFEEQCQTQERY SKEYIEKF KREGNEKEIQRIMHNYDKLSRISEIID  
SRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGV RQKKLNEWLGN  
ENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACS  
VVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYA  
QQR

>sp|Q6TGC4|PADI6\_HUMAN Protein-arginine deiminase type-6 OS=Homo sapiens GN=PADI6 PE=1  
SV=3

MVSVEGRAMSFQSI IHLSDSPHAVCVLGTEICLDL SGCAPQKCQCFTIHGSGRVLIDV  
ANTVISEKEDATIWWPLSDPTYATVKMTSPSPSV DADKVSVTYYGPNEDAPVGTAVLYLT  
GIEVSLEVDIYRNGQVEMSSDKQAKKKWIWGPSGWGAILLVNCPADVGQ QLEDKKTKKV  
IFSEEITNLSQMTLNVQGPSCILKKYRLVLH TSKEESKKARVYWPQKDNSSTFELVLGPD  
QHAYTLALLGNHLKETFYVEAIAFP SAEFSGLISYSVSLVEESQDPSIPETVLYKDTVVF  
RVAPCVFIPCTQVPLEVYLCRELQLQGFVDTVTKLSEKSNSQVASVYEDPNRLGRWLQDE  
MAFCYTQAPHKTTSLILDTPQAADLDEFPMKYSLSPGIGYMIQDTE DHKVASMDSIGNLM  
VSPPVKVQGKEYPLGRVLIGSSFYPSAEGRAMSKTLRDFLYAQQVQAPVELYSDWLM TGH  
VDEFMCFIPTDDKNEGKKGFLLLASPSACYKLFREKQKEGYGDALLFDEL RADQLLSNG  
REAKTIDQLLADESLKKQNEYVEKCIHLNRDILKTELGLVEQDIIEIPQLFCLEKLTNIP  
SDQQPKRSFARPYFPDLLRMIVMGKNLGIPKPF GPQIKGTCCLEEKICCLLEPLGFKCTF  
INDFDCYLTEVGDIACANIRRVFFAFKWWKMVP

>sp|O60829|PAGE4\_HUMAN P antigen family member 4 OS=Homo sapiens GN=PAGE4 PE=1 SV=1  
MSARVRSRSGRGDGEAPDVAVFVAPGESQQE EPPTDNQDIEPGQEREGETPPIEERKVE  
GDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP

>sp|P01298|PAHO\_HUMAN Pancreatic prohormone OS=Homo sapiens GN=PPY PE=1 SV=1  
MAAARLCLSLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYINML  
TRPRYGRHKHEDTLAFSEWGS PHAAVPRELSPLDL

>sp|Q9ULR5|PAI2B\_HUMAN Polyadenylate-binding protein-interacting protein 2B OS=Homo  
sapiens GN=PAIP2B PE=1 SV=2

MNGSNMANTSPSVKSKEDQGLSGHDEKENPFAEYMMWNEEDFN RQVEEELQE QDFLDRC  
FQEMLDEEDQDWFIPSRDLPQAMGQLQQQLNGLSVSEGHDS EDILSKSNLNPDAKEFIPG  
EKY

>sp|P05120|PAI2\_HUMAN Plasminogen activator inhibitor 2 OS=Homo sapiens GN=SERPIN2 PE=1  
SV=2

MEDLCVANTLFALNLFKHLAKASPTQNLFLSPWSISSTMAMVYMGSRGSTEDQMAKVLQF  
NEVGANAVTPMTPENFTSCGFMQQIQKGSYPDAILQAQAADKIHSSFRSLSSAINASTGN  
YLLESVNKLFGEKSASFREYIRLCQKYSSSEPQAVDFLECAEEARKKINSWVK TQTKGK  
IPNLLPEGSDGDTRMVLVNAVYFKGWKTPFEKKLNGLYPFRVNSAQRTPVQMMYLREK  
LNIGYIEDLKAQILELPYAGDVSMFLLL PDEIADVSTGLELLESEITYDKLNKWT SKDKM  
AEDEVEVYIPQFKLEEYELRSILRSMGMEDAFNKGRANFSGMSERNDLFLSEVFHQAMV  
DVNEEGTEAAAGTGGVMTGRTGHGGPQFVADHPFLFLIMHKITNCILFFGRFSSP

>sp|Q13177|PAK2\_HUMAN Serine/threonine-protein kinase PAK 2 OS=Homo sapiens GN=PAK2 PE=1 SV=3

MSDNGELEDKPPAPPVRMSSTIFSTGGKDPLSANHSLKPLPSVPEKKPRHKIISIFSGT  
EKGSKKKEKERPEISPPSDFEHTIHVGFDVGTGFTGMPEQWARLLQTSNITKLEQKKNP  
QAVLDVLKFYDSNTVKQKYLSTPPEKDGFPSTPALNAKGTEAPAVVTEEDDDEETAP  
PVIAPRPDHTKSIYTRSVIDPVPAPVGDSDHVDGAAKSLDKQKKKTKMTDEEIMEKLRTIV  
SIGDPKKKYTRYEKIGQGASGTVFTATDVALGQEVAIKQINLQKQPKKELIINEILVMKE  
LKNPNIVNFLDSYLVGDELFFVMEYLAGGSLTDVVTETCMDEAQIAAVCRECLQALEFLH  
ANQVIHRDIKSDNVLGMEGSVKLTDFGCAQITPEQSKRSTMVGTPYWMAPEVVTRKAY  
GPKVDIWSLGIMAIEMVEGEPPYLNNPLRALYLIATNGTPELQNPEKLSPIFRDFLNRC  
LEMDVEKRGSAKELLQHPFLKLAKPLSSLTPLIMAAKEAMKSNR

>sp|Q9P286|PAK5\_HUMAN Serine/threonine-protein kinase PAK 5 OS=Homo sapiens GN=PAK5 PE=1 SV=1

MFGKKKKKIEISGPSNFEHRVHTGFDPEEQKFTGLPQQWHSLLADTANRPKPMVDPSCIT  
PIQLAPMKTIVRGNPKCKETSINGLLEDFDNISVTRSNLRKESPTPDQGASSHGPCHA  
EENGFITFSQYSSSEDTTADYTTEKYREKSLYGDDLDPYYRGSHAQKNGHVMKMKHGEA  
YYSEVKPLKSDFARFASADYHSHLDSLKPSEYSDLKWEYQRASSSSPLDYSFQFTPSRTA  
GTSGCSKESLAYSESEWGSPSLDDYDRRPKSSYLNQTSPPQTMQRSRSGSGLQEPMPFPG  
ASAFKTHPQGHSYNSYTPRLSEPTMCIPKVDYDRAQMVLSPPLSGSDTYPRGPAKLPQS  
QSKSGYSSSSHQYPSGYHKATLYHHPSLQSSSQYISTASYLSSLSLSSSTYPPPSWGSSS  
DQQPSRVSHQFRAALQLVVSPPGDPREYLANFIKIGEGSTGIVCIATEKHTGKQVAVKMK  
DLRKQQRRELLFNEVVIMRDYHHDNVVDMYSSYLVGDELWVMEFLEGGALTDIVTHTRM  
NEEQIATVCLSVLRALSYLHNQGV IHRDIKSDSILLTSDGRIKLSDFGCAQVSKEVPKR  
KSLVGTPYWMAPEVISRLPYGTEVDIWSLGIMVIEMIDGEPPYFNEPPLQAMRRIIRDSLP  
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>sp|Q86YC2|PALB2\_HUMAN Partner and localizer of BRCA2 OS=Homo sapiens GN=PALB2 PE=1 SV=1

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TDDTQEHFPHRVSDPSGEQKQKLPSRRKKQKRTFISQERDCVFGTDSLRLSGKRLKEQE  
EISSKNPARSPVTEIRTHLLSLKSELPSPEPVTEINEDSVLIPPTAQPEKGVDTFLRRP  
NFTRATTVPLQLTSDSGSSQHLEHIPPKGSSSELTHDLKNIRFTSPVSLEAQGKKMTVST  
DNLLVNKAISKSGQLPTSSNLEANISCSLNELTYNNLPANENQNKEQNQTEKSLKSPSD  
TLDGRNENLQESEILSQPKSLSEATSPLSAEKHSCTVPEGLLFPAEYVVRTTRMSNCQ  
RKVAVEAVIQSHLDVKKKGFKNKNKDASKNLNLSNEETDQSEIRMSGTCTGQPSSRTSQK  
LLSLTKVSSPAGPTEDNDLSRKAVAQAPGRRYTGKRKSACTPASDHCEPLLPTSSLSIVN  
RSKEEVTSHKYQHEKLFIQVKGKKSRRHQKEDSLSWSNSAYLSLDDDAFTAPFHRDGMLSL  
KQLLSFLSITDFQLPDEDFGLKLEKVKSCSEKPVPEFESKMFGERHLKEGSCIFPEELS  
PKRMDTEMEDLEEDLIVLPKGSHPKRPNSQSQHTKTGLSSSILLYTPLNTVAPDDNDRPT  
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SPAKPHHTLQVSGRQGQPTCDSDSVPPGTPPPIESFTFKENQLCRNTCQELHKHSVEQTE  
TAELPASDSINPGLQLVSELKNPSGSCSVDVSAMFWERAGCKEPCIIITACEDVVSLLWKA  
LDAWQWEKLYTWHFAEVPVLQIVPVPDVYNLCVALGNLEIREIRALFCSSDDESEKQVL  
LKSGNIKAVLGLTKRRLVSSSGTSLDQQQVEVMTFAEDGGGKENQFLMPPEETILTFAEVQ  
GMQEALLGTTIMNNIVIWNLTGQLLKKMHIDDSYQASVCHKAYSEMGLLFIVLSHPCAK

EESLSRSPVFQLIVINPKTTLVGVMLYCLPPGQAGRFLEGDVKDHCAAAILTSGTIAIW  
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>sp|Q96RD7|PANX1\_HUMAN Pannexin-1 OS=Homo sapiens GN=PANX1 PE=1 SV=4

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GTQISCFSPSSFSWRQAAFVDSYCWAAVQQKNSLQSESGNLPLWLHKFFPYILLFAILL  
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QSLWEVSESHFKYPIVEQYLKTKKNSNLI IKYISCRLLTLIIILLACIYLGYYFSLSSL  
SDEFVCSIKSGILRNDSTVPDQFQCKLIAVGIFQLLSVINLVVYVLLAPVVVYTLFVPFR  
QKTDVLKVYEILPTFDVLHFKSEGYNDLSYLNLFLEENISEVKSYKCLKVLENIKSSGQG  
IDPMLLLTNLGMIMKMDVVDGKTPMSAEMREEQGNQTAELQGMNIDSETKANNGEKNARQR  
LLDSSC

>sp|Q96QZ0|PANX3\_HUMAN Pannexin-3 OS=Homo sapiens GN=PANX3 PE=2 SV=1

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MYLPVLLWQYAAVPALSSDLLFIISELDKSYNRSIRLVQHMLKIRQKSSDPYVFWNELEK  
ARKERYFEFPLRLERYLACKQRSHSLVATYLLRNSLLLIFTSATYLYLGHFHLDVFFQEEF  
SCSIKTGLLSDETHVPNLITCRLTSLSFQIVSLSSVAIYITILVPVIIYNLTRLCRWDKR  
LLSVYEMLPAPFDLLSRKMLGCPINDLVILLFLRANISELISFSWLSVLCVLKDTTTQKH  
NIDTVVDFMTLLAGLEPSKPKHLTNSACDEHP

>sp|Q5JQF8|PAP1M\_HUMAN Polyadenylate-binding protein 1-like 2 OS=Homo sapiens  
GN=PABPC1L2A PE=2 SV=1

MASLYVGDHLPEVTEAMLYEKFSPAGPILSIRICRDKITRRSLGYAYVNYQQPVDAKRAL  
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VACDEKGPKGYGFVHFQKQESAERAIDVMNGMFLNYRKIFVGRFKSHKEREARGAWARQ  
STSADVKDFEEDTDEEATLR

>sp|Q5QFB9|PAPAS\_HUMAN Protein PAPPAS OS=Homo sapiens GN=PAPPA-AS1 PE=5 SV=1

MRYGFVRKKHRLFLTTVAALPIWNPISEFVKWYKSHKLSQHCIRICGHLCCQKHLDMFLS  
VIGQRWPIDVFSSVFDHQVSAIGSDIIWWFLKLFLVSFFFFF

>sp|Q5XG87|PAPD7\_HUMAN Non-canonical poly(A) RNA polymerase PAPD7 OS=Homo sapiens  
GN=PAPD7 PE=1 SV=3

MQIWETSQGVGRGSGFASYFCLNSPALDTAAAAGAAGRSGGLGPALPAASPPPPGPTA  
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PGGGRGGAFFNFADGAPSAPGTANGHPGPRGPAPAGSPSQHQFHPGRRKRENKASTYGLN  
YLLSGSRAAALSGGGPGAQAPRPGTPWKSRAYSPIQGLHEEIIDFYNFMSPCPEEAAM  
RREVVKRIETVVKDLWPTADVQIFGSFSTGLYLPTSDIDLVVFGKWERPPLQLEQALRK  
HNVAEPCSIKVLDKATVPIIKLTDQETEVKVDISFNMETGVRAAEFIKNYMKKYSLLPYL  
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GRNFNYLKTGIRIKEGGAYIAKEEIMKAMTSGYRPSMLCIEDPLPGNDVGRSSYGAMQV  
KQVFDYAYIVLSHAVSPLARSYPNRDAESTLGRIIKVTQEVIDYRRWIKEKWGSKAHPSP  
GMDSRIKIKERIA TCNGEQTNREPESPYGQRLTSLSSPQLSSGSSASSVSSLSGSDV  
DSDTPPCTTPSVYQFSLQAPAPLMAGLPTALPMPSGKPQPTTSRTLIMTTNNQTRFTIPP  
PTLGVAAPVPCRQAGVEGTASLKAVHHMSSPAIPASPNPLSSPHLYHKQHNGMKLSMKGS  
HGHTQGGGYSSVSGGVRPPVGNRGHHQYNRTGWRRKKHHTHTRDSLPSLSR

>sp|Q9BYG4|PAR6G\_HUMAN Partitioning defective 6 homolog gamma OS=Homo sapiens GN=PAR6G PE=1 SV=1

MNRSFHKSQLTRYDCSAVEVKSFKGAEFRFSLDRHKPGKFEDFYKLVVHTHHISNSDV  
TIGYADVHGDLLPINDDNFCKAVSSANPLLRVFIQKREEAERGLGAGSLCRRRRALGA  
LRDEGPRRRALHDIGLPRDFRPVSSIIDVDLPETHRRVRLHRHGCEKPLGFYIRDGASV  
RVTPHGLEKVPGIFISRMVPGGLAESTGLLAVNDEVLEVNGIEVAGKTLQVTDMMIANS  
HNLIVTVKPANQRNNVVRGGRALGSSGPPSDGTAGFVGPPAPRVLQNFHPDEAESDEDND  
VVIETLEPARPPQTPGAPAGSLSRVNGAGLAQRLQRDLALDGGQLRLSSLRADPRHSL  
ALPPGGVEEHGPAVTL

>sp|Q06710|PAX8\_HUMAN Paired box protein Pax-8 OS=Homo sapiens GN=PAX8 PE=1 SV=2

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ILGRYYETGSIRPGVIGGSKPKVATPKVVEKIGDYKRQNPTMFAWEIRDLLAEGVCDND  
TVPSVSSINRIIRTKVQQPFNLPMDSCVATKSLSPGHTLIPSSAVTPPESPQSDSLGSTY  
SINGLLGIAQPGSDKRKMDSDQDSCRLSIDSQSSSSGPRKHLRTDAFSQHHLEPLECPF  
ERQHYPEAYASPSHTKGEQGLYPLLNSTLDDGKATLTPSNTPLGRNLSTHQTYPVAD  
PHSPFAIKQETPEVSSSSSTPSSLSSSAFLDLQQVGSVPPFNAFPHAASVYGQFTGQAL  
LSGEMVGPTLPGYPPIHTSGQGSYASSAIAGMVAGSEYSGNAYGHTPYSSYSEAWRFP  
NSSLLSPYYYSSTRPSAPPTTATAFDHL

>sp|Q6ZW49|PAXI1\_HUMAN PAX-interacting protein 1 OS=Homo sapiens GN=PAXIP1 PE=1 SV=2

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EAREVFDLPVVKPSWVILSVQCGTLLPVNGFSPESCQIFFGITACLSQVSSEDRSALWAL  
VTFYGGDCQLTLNKKCTHLIVPEPKGEKYEALKRASIKIVTPDWLDCVSEKTKKDEAF  
YHPRLIIEEEEEEEEEEEEVENEEQDSQNEGSTDEKSSPASSQEGSPSGDQQFSPKSNT  
EKSKGELMFDDSSDSPEKQERNLNWTPAEVPQLAAAKRRLPQGKEPGLINLCANVPPVP  
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LHRPQQQLQPFQQQHALQQQFHQLQQHQLQQQLAQLQQQHSLQQQQQQQIQQQQLQRM  
HQQQQQQMQSQTAPHLSQTSQALQHQPQQPPQQQQQQQPPSPQQHQLFGHDPVEI  
PEEGFLLGCVFAIADYPEQMSDKQLLATWKRIIQAHGGTVDPFTSRCTHLLCESQVSSA  
YAQAIRERKRCVTAHWLNTVLKKKKMVPPhRALHFPVAFPPGGKPCSQHIIISVTGFVDS  
RDDKLMLAYLAGAKYTYLCSNTVLICKEPTGLKYEKAKEWRIPCNAQWLGDILLGNF  
EALRQIQYSRYTAFSLQDPFAPTQHLVLNLLDAWRVPLKVSALLMSIRLPPKLKQNEVA  
NVQPSSKRARIEDVPPPTKKLTPELTPFVLFTGFEPVQVQQYIKKLYILGGEVAESAQKC  
THLIASKVTRTVKFLTAISVVKHIVTPEWLEECFRCKFIDEQNYILRDAEAEVLSFSL  
EESLKRAHVSPLFKAKYFYITPGICPSLSTMKAIVECAGGKVLQKPSFRKLMEHKQNSS  
LSEIILISCENDLHLCREYFARGIDVHNAEFVLTGVLQTLDYESYKFN

>sp|Q15366|PCBP2\_HUMAN Poly(rC)-binding protein 2 OS=Homo sapiens GN=PCBP2 PE=1 SV=1

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LAGPTNAIFKAFAMIIDKLEEDISSMTNSTAASRPVTLRLVVPASQCGSLIGKGGCKI  
KEIRESTGAQVQVAGDMLPNSTERAITIAGIPQSIIECVKQICVVMLETLSQSPPKGVTI  
PYRKPSSSPVIFAGGQDRYSTGSDSASFHTTSPMCLNPDLGPPLEAYTIQQQYAIQ  
PDLTKLHQLAMQQSHFPMTHGNTGFSGIESSPEVKGYWGLDASAQTTSHELTIPNDLIG  
CIIGRQGAKINEIRQMSGAQIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETG

GMGSS

>sp|P05165|PCCA\_HUMAN Propionyl-CoA carboxylase alpha chain, mitochondrial OS=Homo sapiens GN=PCCA PE=1 SV=4

MAGFWVGTAPLVAAGRRGRWPPQQMLLSAALRTLKHVLYYSRQCLMVSRLGSGVYDPNE  
KTFDKILVANRGEIACRVIRTCKKMGIKTVAIHSDVDASSVHVKMADEAVCVGPAPTSKS  
YLNMDAIMEAIKKTRAQAVHPGYGFLSENKEFARCLAAEDVVFIPDTHAIQAMGDKIES  
KLLAKKAEVNTIPGFDGVVKDAEEAVRIAREIGYPVMIKASAGGGGKMRIAWDDEETRD  
GFRLSSQEAASSFGDDRLLIEKFIDNPRHIEIQVLGDKHGNALWLNRECSIQRRNQKV  
EEAPSIFLDAETRRAMGEQAVALARAVKYSSAGTVEFLVDSKKNFYFLEMNTRLQVEHPV  
TECITGLDLVQEMIRVAKGYPLRHKQADIRINGWAVECRVYAEDPYKSFGLPSIGRLSQY  
QEPLHLPGVRVDSGIQPGSDISIIYDPMISKLITYGSDRTEALKRMADALDNYVIRGVTH  
NIALREVIINSRFBKGDISTKFLSDVYPDGFKGHMLTKSEKNQLLAIASSLFVAFQLRA  
QHFQENSRRMPVIKPDIANWELSVKLHDKVHTTVASNNGSVFSVEVDGSKLNVSTWNLAS  
PLLSVSVDTGTQRTVQCLSREAGGNMSIQFLGTVYKVNILTRAAELNKFMLEKVTEDTSS  
VLRSPMPGVVAVSVKPGDAVAGQEQICVIEAMKMQNSMTAGKTGTVKSVHCQAGDTVGE  
GDLLVELE

>sp|Q9NPG4|PCD12\_HUMAN Protocadherin-12 OS=Homo sapiens GN=PCDH12 PE=1 SV=1

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QAGAAFQVLQLPQALPIQVDSEGLLSTGRRLDREQLCRQWDPCLVSFDVLATGDLALIH  
VEIQVLDINDHQPRFPKGEQELEISESASLRTRIPLDRALDPDTGPNLHTYTLSPSEHF  
ALDIVGPDETKHAELIVVKELDREIHSFFDLVLTAYDNGNPPKSGTSLVKVNVLSDNDN  
SPAFAESSLALEIQEDAAPGTLTIKLATDPDQGPNGEVEFFLSKHPPEVLDTFSIDAK  
TGQVILRRPLDYEKNPAYEVDVQARDLGNPIPAHCKVLIKVLDVNDNIPSIHVTWASQP  
SLVSEALPKDSFIALVMADDLDSGHNLVHCWLSQELGHFRLKRTNGNTYMLLTNATLDR  
EQWPKYTLTLAQDQGLQPLSAKKQLSIQISDINDNAPVFEKSRYEVSTRENNLPSLHLI  
TIKAHDADLGINGKVSRIQDSPVAHLVAIDSNTEVTAQRSLNYEEMAGFEFQVIAEDS  
GQPMCLASSVSVVWVSLDANDNAPEVVQPVLSDGKASLSVLVNASTGHLLVPIETPNGLGP  
AGTDTPLATHSSRPFLTTIVARDADSGANGEPLYSIRSGNEAHLFILNPHTGQLFVNV  
TNASSLIGSEWELEIVVEDQGSPLQTRALLRVMFVTSVDHLRDSARKPGALSMSMLTVI  
CLAVLLGIFGLILALFMSICRTEKKDNRAYNCREAESTYRQPKRPQKHQKADIHLVPV  
LRGQAGEPCEVGQSHKDVKDKEAMMEAGWDPCQLQAPFHLTPTLYRTLNRQGNQGAPAESRE  
VLQDTVNLLFNHPRQRNASRENLNLEPPQATGQPRSRPLKVAGSPTGRLAGDQGSEAP  
QRPPASSATLRRQRHLNGKVSPEKESGPRQILRSLVRLSVAFAERNPVEELTVDSPPVQ  
QISQLLSLLHQGFQPKPNHRGNKYLAKEGGRSAIPDTPDGPASARAGGQTDPEQEEGPLD  
PEEDLSVKQLLEELSSLLDPSTGLALDRLSAPDPAWMARLSLPLTTNYRDNVISPDA  
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>sp|Q96QU1|PCD15\_HUMAN Protocadherin-15 OS=Homo sapiens GN=PCDH15 PE=1 SV=2

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INKKVGTTIYHEVRIVVRDRNDNSPTFKHESYYATVNELTPVGTTIFTGFSGDNGATDID  
DGPNGQIEYVIQYNPDPTSNDTFEIPMLTGNIVLRKRLNYEDKTRYFVIIQANDRAQN  
LNERRTTTTLTVDVLDGDDLGPMLPCVLVPNTRDCRPLTYQAAIPELRTPEELNP IIV  
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FDLVIKAEQDNHGHLPAFAGLHIEILDENNQSPYFTMPYQGYILESAPVGATISDSLNL  
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ITAFDGVQESEPVIQVMDANDNTPTFPEISYDVVYVYDMRPGDSVIQLTAVDADEGS  
NGEITYEILVGAQGDFIINKTTGLITIAPGVEMIVGRYALTQAADNAPPAERRNSICT  
VYIEVLPPNNQSPPRFPQLMYSLEISEAMRVGAVLLNLQATDREGDSITYAIENGDPQRV  
FNLSETTGILTLGKALDRESTDRYILIIITASDGRPDGTSTATVNIVVTDVNDNAPVFDPY  
LPRNLSVVEEENAFVGVKATDPDAGINGQVHYSLGNFNNLFRITSNGSIYTAVKLNRE  
VRDYVELVVVATDGAHVPRHSTLTLAIKVLDDIDNSPVFTNSTYTVLVEENLPAGTTILQ  
IEAKDVLGANVSYRIRSEPVKHFALHPFTGELSLLRSLDYEAFPDQEASITFLVEAFD  
IYGTMPPGIATVTVIVKDMNDYPPVFSKRIYKGMVAPDAVKGTPITTVYAEDADPPGLPA  
SRVRYRVDVQFPYPASIFEVEEDSGRVITRVNLNEEPTTIFKLVVVAFDDGEPVMSSSA  
TVKILVLHPGEIPRFTQEEYRPPPVSELATKGTMGVVISAAAINQSIVYSIVSGNEEDTF  
GINNITGVIYVNGPLDYETRTSYVLRVQADSLEVVLANLRVPSKSNATKVVYIEIQDENNH  
PPVFQKKFYIGGVSEDAFMFTSVLRVKATDKDTGNYSVMAYRLIIPPIKEGKEGFVVETY  
TGLIKTAMLFHNMRRSYFKFQVIATDDYKGKLSGKADVLVSVVNQLDMQVIVSNVPPTLV  
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IDRNELFKFLDGKLLDINKDFQPYGEGGRILEIRTPEAVTSIKKRGESLGYTEGALLAL  
AFIIILCCIPAILVVLVSYRQFKVRQAECTKTARIQAALPAAKPAVPAPAPVAAPPPPPP  
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KSLRGPKEIKQLWSQSVSLPRRLMRKVPNRPEIIDLQQWQGTQKAENENTGICTNKRK  
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VELKSEPNVISSPAECSLELSPSRPCVLHSSLSRRETPICMLPIETERNIFENFAHPPNI  
SPSACLPPLPPPISSPPSPAPAPLAPPPDISPFSFLCPPPSPPSIPLPLPPPTFFPLSV  
STSGPPTPLPLPPPTPLPPPPPSIPCPPPSASFLSTECVCITGVKCTTNLMPAEIKS  
SMTQLSTTTVCKTDPQREPQILRHVKNLAELEKSVANMYSQIEKNYLRTNVSELQTMCP  
SEVTNMEITSEQNKGSLLNIVEGTEKQSHSQSTSL

>sp|POC6T2|OST4\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase  
subunit 4 OS=Homo sapiens GN=OST4 PE=1 SV=1

MITDVQLAIFANMLGVSLFLLVVLVYHYVAVNNPKKQE

>sp|Q86UW2|OSTB\_HUMAN Organic solute transporter subunit beta OS=Homo sapiens GN=SLC51B  
PE=2 SV=2

MEHSEGAPGDPAGTVVPQELLEMLWFRVEDASPWNHSILALAAVVVISMVLLGRSIQ  
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PDVPETES

>sp|Q7RTW8|OTOAN\_HUMAN Otoancorin OS=Homo sapiens GN=OTOA PE=1 SV=1

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AMKCLLEDKDKGLDKDIIIDLGEIRERALQSPGVNRSFLITLERCQMLNSLECVEIL  
GKVLRGSSGSFLQPDITERLPRDLREDAFKNLSAVFKDLYDKTSAHSQRALYSWMTGILQ  
TSSNATDDASWVSAEHLWVLGRYMVHLSFEEITKISPIEIGLFISYDNATKQLDMVYDI  
TPELAQAFLERISSNFNMRNTSTIHRQAHELWALEPFPKMLGLLVCFYNDLELLDATVA  
QVLLYQMIKCSHLRGFQAGVQKLKAELLDIAMENQTLNETLGSLSDAVVGLTYSQLESLS  
PEAVHGAISTLNQVSGWAKSQVILSAKYLAHEKVLSFYNVSQMGALLAGVSTQAFCSMK



RKDISQVLRSAVSQYVSDLSPAQQQGILSKMVQAEDTAPGIVEIQGAFFKEVSLFDLRRQ  
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KFPEILLQAASKMARTLPTKEFLWAVFQSVRNSSDKIPSYDPMPGCHGVVAPSSDDIFKL  
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VSLGRIALALNESELEQLDLSSIDTVASLSWQTEWTPGQAESILQGYLDDSGYSIQDLKS  
FHLVGLGATLCAINITEIPLIKISEFRVVVARIGTLLCSTHVLAEFKRKAEVVFDPTEW  
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AAVTHAQRRRLSPLQLQSLQQALDGAKTHSWQDAPASAGPTRTSSSRSPAGALQSWGLWL  
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>sp|Q9HC10|OTOF\_HUMAN Otoferlin OS=Homo sapiens GN=OTOF PE=1 SV=3

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TDGTVGSWDDGDFLGDESLQEEKDSQETDGLLPGSRPSSRPPGEKSFRRAGRSVFSAMK  
LGKNRSHKEEPQRPDEPAVLEMEDLDHLAIRLGDGLDPDSVSLASVTALTNTVSNKRSKP  
DIKMEPSAGRPMQVSIITVIEARQLVGLNMDPVVCVEVGDDKKYTSMKESTNCPYYNEY  
FVFDFHVSPDVMFDKIIKISVIHSKNLLRSGTLVGSFKMDVGTVYSQPEHQFHHKWAIS  
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QLRAHMYQARSLFAADSSGLSDPFARVFFINQSQCTEVLNETLCPTWDQMLVFDNLELYG  
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PLNIRVVD CRAFTGRYTLVGSHAVSSLRFFIYRPPDRSAPSWNTTVRLLRRCRVLCNGGSS  
SHSTGEVVVTMEPEVPIKKLETMVKL DATSEAVVKVDVAEEEEKEKKKKKGTAEEPEEEE  
PDESMLDWWSKYFASIDTMKEQLRQQEP SGIDLEEKEEVDNTEGLKGS MKGKEKARAAKE  
EKKKKTQSSSGSGQGEAPEKKKPKIDELKVYPKELESEFDNFEDWLHTFNLLRGKTGDDE  
DGSTEEERIVGRFKGSLCVYKVLPEDVSREAGYDSTYGMFQGIPSNDPINVLVRVYVVR  
ATDLHPADINGKADPYIAIRLGKTDIRDKENYISKQLNPVFGKSFDIEASFPMESMLTVA  
VYDWDLVGTDDLIGETKIDLENRFYSKHRATCGIAQTYSTHGYNIRWDPMKPSQILTRLC  
KDGKVDGPHFGPPGRVKVANRVFTGPSEIEDENGQRKPTDEHVALLALRHWEDIPRAGCR  
LVPEHVETRPLLNDPKGIEQGRLELWDMFPM DMPAPGTPLDISPRKPKKYELRVIWN  
TDEVVLEDDDDFTGEKSSDIFVRGWLKGQ QEDKQD TDVHYHSLTGEGNFNWRYLFPFDYL  
AAEEKIVISKKESMFSWDETEYKIPARLTLQIWDADHFSADDFLGAIELDLNRFPRGAKT

AKQCTMEMATGEVDVPLVSIFKQKRVKGWWPLLARNENDEFELTGKVEAELHLLTAEEAE  
KNPVG LARNEPDPLEKPNRPDTSFIWFLNPLKSARYFLWHTYRWLLKLLLLLLLLLLA  
LFLYSVPGYLKKILGA

>sp|Q5VVQ6|OTU1\_HUMAN Ubiquitin thioesterase OTU1 OS=Homo sapiens GN=YOD1 PE=1 SV=1  
MFGPAKGRHFGVHPAPGFPGGVSQQAAGTKAGPAGAWPVGSRDTMWRLRCKAKDGTHVL  
QGLSSRTRVRELQGGIAAITGIAPGGQRILVGYPPCELDLSNGDTILEDLPISGDMII  
EEDQTRPRSSPAFTKRGASSYVRETLPLVLRTRVVPADNSCLFTSVYYYVEGGVLNPACAP  
EMRRLIAQIVASDPDFYSEAILGKTNQEYCDWIKRDDTWGGAIEISILSKFYQCEICVVD  
TQTVRIDRFGEDAGYTKRVLLIYDGIHYDPLQRNFPDPTPLTIFSSNDDIVLVQALEL  
ADEARRRRQFTDVNRFTLRMCVCQKGLTGQAEAREHAKETGHTNFGEV

>sp|Q6IE37|OVOS1\_HUMAN Ovostatin homolog 1 OS=Homo sapiens GN=OVOS1 PE=2 SV=2  
MHVHVCVCLCVCIYTSSCVCACVHMCMDALLAEGRGGGLAAADDFLYLECCCKFSQESQ  
IAMVCQERSQNETYEVKMNDTEACRATLNLEERRSVAIRSRENVVVFQTDKPTYKPGQK  
DVNGIAQFFLDITYFTYPNITLKDPPNNRIFQRQNVTSFRNITQLSFQLISEPMFGDYWI  
VVKRNSRETVTHQFAVKRYVLPKFEVTVNAPQTVTISDDEFQVDVCAYNFGQPVQGETQI  
RVCREYFSSSNCEKNENEICEQFIAQVQTNLDIFTLLCSSFLTMQISEKTSVFITQLLG  
TVNFENMDTFYRRGISYFGQLKFSDPNNVPMVNKLLQLELNDEFIGNYTTDENGAEQFSI  
DTSDIFDPEFNLKVRHQRTTECYLPSWLTPQYLDHFLVSRFYSRTNSFLKIVPEPKQLE  
CNQQKVTVHYSLNSEAYEDDSNVKFFYLNGNFSFPISISADLAPAAVLVYTLHPSGEI  
VADSVRFQVDKCFKHVNIKFSNEQGLPGSNASLCLQAAPVLFALRAVDNRVLLKSEQ  
QLSAESVSSLYNMVPSIEPYGYFYHGLNDDGKEDPCIPQDMFYNGLYYTPVSNYGDGD  
IYNIVRVRSLRILENIIQTVRTNFPETWMWDLVSVSSSGSANLSFLIPDTITQWEASGFC  
VNGDVGFGISSTTTLEVSQPFIEIASPFSVVQNEQFDLIVNVFSYRNTCDEVSYIWECL  
PGKVNITVVAESKQSSACPNEGMEQKLNWKDVTVVQSFLVEFLGLDILGLALQNLVVLQ  
MPYGSGEQNAALLASDTYVLDYLKSTEQLTEEVQSKAFFLSILGYQRQLSFKNSDGSYSV  
FWQQSQKGSIWLSALTFKTLERMKKYVFIDENVQKQTLIWSSQKTSKCFKNDGQLFNH  
ALRNALFCLEAALDSGVTNGYNHAILAYAFALAGKEKQVESLLQTLQDSAPKLSKRYWE  
RERKPKTEEFPSFIPWAPSAQTEKSCYVLLAVISRKIPDLTYASKIVQWLAQRMNSHGGF  
SSNQVINVLILIAARGEGLFSKDQNTVTFSSSEGSSEIFQVNGHNRLLVQRSEVTQAPG  
EYTVDVEGHGCTFIQIFRYTGIRNKSSMVVIDVKMLSGFTPTMSSIEEVNNRSLIFQHKD  
SYIEYKRADSFPFSVEQSNLVFNIQPAPAMVYDYIEKGRQATAMP

>sp|Q86U42|PABP2\_HUMAN Polyadenylate-binding protein 2 OS=Homo sapiens GN=PABPN1 PE=1  
SV=3  
MAAAAAAAAAAGAAGGRSGPGRRRHLVPGAGGEAGEGAPGGAGDYGNGLSEEELEPEEL  
LLEPEPEPEEEEEPPRPRAPPGAPGPGSGAPGSQEEEEEPGLVEGDPGDGAIEDPELE  
AIKARVREMEEEAEKLKELQNEVEKQMNMSPPPGNAGPVIMSIEEKMEADARSIVGNVD  
YGATAEELEAHFHGCGSVNRVTILCDKFSGHPKGFAYIEFSDKESVRTSLALDESLFRGR  
QIKVIPKRTNRPGISTDRGFPRARYRARTTNYNSSRSRFYSGFNSRPRGRVYRGRARAT  
SWYSPY

>sp|AOA0B4J2A2|PAL4C\_HUMAN Peptidyl-prolyl cis-trans isomerase A-like 4C OS=Homo sapiens  
GN=PPIAL4C PE=2 SV=1  
MVNSVVFDDITVDGKPLGRISIKLFADKIPKTAENFRALSTGEKGFYKGSCHFRIIPGF  
MCQGGDFTRPNTGDKSIYGEKFDENLIRKHTGSGILSMANAGPNTNGSQFFICTAKTE  
WLDGKHVAFGKVKERNIVEAMEHFGYRNSKTSKKITIADCGQF

>sp|PODN26|PAL4F\_HUMAN Peptidyl-prolyl cis-trans isomerase A-like 4F OS=Homo sapiens  
GN=PPIAL4F PE=3 SV=1

MVNSVVFVEITRDGKPLGRISIKLFADKIPKTAENFRALSTGEKGFYKGCSCFHRIIPGF  
MCQGGDFTRPNGTGDKSIYGEKFDENLIRKHTGSGILSMANAGPNTNGSQFFICAAKTE  
WLDGKHVAFGKVKERVNIVEAMEHFGYRNSKTSKKITIADCGQF

>sp|A6NDB9|PALM3\_HUMAN Paralemin-3 OS=Homo sapiens GN=PALM3 PE=1 SV=2

MAESSLYRQRLEVIAEKRRQLQEEIRAARREVEEEKLRVERLKRKSLRERWLMGAAAVPE  
PSEDPTSKDPQSPEGQAQARIRNLEDLFTLQSQLQLLQSASTGAQHKPSGRPSWRRQGH  
RPLSQSIVEAGSVGGTDLNKRASLPAGLVGTPESPSEPREDVLGFLPGPRQVPGAAGDS  
SEANGPCPSPIPTPEQGLSQRAVPSEGRVGEAKGGGVSVVWEGLRATEDCATGATGPEL  
EAKVEEVVLEAIGDRKGAGSLELPAWVKEDRGIVEVVWEGVGSDAEAMGEIGRVPEVVQ  
TSSPRLQERLEAAASIEGEDVPQGSPEGDGQGGSGGEGSFIVVERVTLSEWEELLVEG  
LEGPEVAGRERGEDSPLGAEGAKTGGGEETWEAEKRKAESMGIGSEEKPGTGRDEAEMS  
PVVERKGGEEKLELESRGSAEKLGTEREGGEEPLGIERKVEGHLRAEKEGDEEKGAE  
EVEEPLGVEKKGGEEPEATKEPLEAERKGGEELEAEKRGGEESLETEKTQGTEGDLNL  
EQGSREGSESQAEMNEAGPPLEANTETRPEKEGPQPQEKPVGALEEEGVKPQTAAEGQG  
PLGDATPLLAETPAPEQPAECQPLLQGGPSANPSAHPVPTYAPARQPEPSAPTEGEEAS  
GPKQKTCQCCAVM

>sp|Q8NDF8|PAPD5\_HUMAN Non-canonical poly(A) RNA polymerase PAPD5 OS=Homo sapiens  
GN=PAPD5 PE=1 SV=2

MYRSGERLLGSHALPAEQRDPLPLETTNNNNHHQPGAWARRAGSSASSPPSASSSPHPS  
AAVPAADPADSAGSSNKRKRDNKASGGRAAGGGRADGGGVVYSGTPWKRRNYNQGVVGL  
HEEISDFYEYMSPRPEEEKMRMEVVNRIESVIKELWPSADVQIFGSFKTGLYLPTSDIDL  
VVFGKWENLPLWTLEEALRKHKVADEDSVKVLDKATVPIIKLTDSFTEVKVDISFNVQNG  
VRAADLIKDFTKKYPVLPYLVLVLKQFLLQRDLNEVFTGGIGSYSLFLMAVSFLQLHPRE  
DACIPNTNYGVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYRPSMLYI  
EDPLQPGNDVGRSSYGAMQVKQAFDYAYVVLHAVSPIAKYYPNNETESILGRIIRVTDE  
VATYRDWISKQWGLKNRPEPSCNGPVSSSSATQSSSSDVSDATPCKTPKQLLCPSTGN  
RVGSQDVSLESSQAVGKMSTQTNTNSTNKSQHGSRARLFRSSSKGFQGTQTSHGSLM  
TNKQHQQKSNNQYYHGKKRKHKRDAPLSDLCR

>sp|Q9NRJ5|PAPOB\_HUMAN Poly(A) polymerase beta OS=Homo sapiens GN=PAPOLB PE=2 SV=1

MPFPVTTQGPQPAPPPNRYGVSSPISLAVPKETDCLLTQRLIETLRPFVFEELQR  
RILVLEKLNVLKWEIREISEKSLPQSVIENVGGKIFTFGSYRLGVHTKGADIDALCVA  
PSHVDRSDFFTSFYAKLKLQEEVKDLRAVEEAFVPVIKLCFDGIEIDILFARLALQTIPE  
DLDLRDDSLLKNLDIRCIRSLNGCRVTDEILHLVPNIDNFRLLRAIKLWAKCHNIYSNI  
LGFLGGVSWAMLVARTCQLYNAVASTLVRKFFLVFSEWEPNPVLLKEPEERNLNLPVW  
DPRVNPSPDRYHLMPIITPAYPQQNSTYNVISISTRMVMIEEFKQLAITHEILLSKAEWSK  
LFEAPSFQKYKHIVLLASASTEKHLEWVGLVESKIRILVGSLEKNEFITLAHVPQS  
FPAPKENPDMEEFRTMWVIGLGLKKPDNSEILSIDLTYDIQSFTDTVYRQAVNSKMFEMG  
MKITAMHLRRKELHQLLPHHVLQDKKAHSTEGRRRLTDLNDSSFDSLACENSMSVPSSTS  
TMKTGPLISSSQGRNSPALAVMTASVANIQATEFSLQQVNTNESSGVALNESIPHAVSQP  
AISPSPKAMVARVVSSTCLISHPDLQETQQQTYLIL

>sp|Q13219|PAPP1\_HUMAN Pappalysin-1 OS=Homo sapiens GN=PAPPA PE=1 SV=3

MRLWSWVLHLGLLSAALGCGLAERPRRARRDPRAGRPPRPAAGPATCATRAARGRRASPP

PPPPPGGAWEAVRVPRRRQQREARGATEEPSPPSRALYFSGRGEQLRLRADLELPRDAFT  
LQVWLAEGGQRSPAVITGLYDKCSYISRDRGWVVGIHTISDQDNKDPRYFFSLKTDRAR  
QVTTINAHRSYLPQGQWVYLAATYDQGFMKLYVNGAQVATSGEQVGGIFSPLTQKCKVLMML  
GGGALNNHNYRGYIEHFSWVKVARTQREILSDMETHGAHTALPQLLLQENWDNVKHAWSM  
KDGSSPKVEFSNAHGFLDTSLEPPLCGQTLCDNTEVIA SYNQLSSFRQPKVVRYRVVNL  
YEDDHKNPTVTREQVDFQHHQLAEAFKQYNISWELDVLEVSNSSLRRRLILANCDISKIG  
DENDCPECNHTLTGHDGGDCRHLRHPAFVKKQHNGVCDMDCNYERFNFDDGGECCDPEITN  
VTQTCFDPDSPHRAYLDVNELKNILKLDGSTHLNIFFAKSSEEELAGVATWPDKEALMH  
LGGIVLNPSFYGMPGHTHTMIHEIGHSLGLYHVFRGISEIQSCSDPCMETEPSFETGDLG  
NDTNPA PKHKSCGDPGPGNDTCGFHSFFNTPYNNFMSYADDCTDSFTPNQVARMHCYLD  
LVYQGWQPSRKPAVALAPQVLGHTTDSVTLEWFPPIDGHFFERELGSACHLCLEGRILV  
QYASNASSPMPCSPSGHWSPREAEGHPDVEQPCKSSVRTWSPNSAVNPHTVPPACPEPQG  
CYLELEFLYPLVPESLTIWVTFVSTDWSSGAVNDIKLLAVSGKNISLGPQNVFCDVPLT  
IRLWDVGEEVYGIQIYTLDEHLEIDAAMLTSTADTPLCLQCKPLKYKVRDPPLQMDVAS  
ILHLNRKFVMDMLNLSVYQYVWITISGTESESPAVTYIHGSGYCGDGI IQKDQGEQC  
DDMNKINGDGC SLFCRQEVSFNCIDEPSRCYFHDGDGVCEEFEQKTSIKDCGVYTPQGFL  
DQWASNASVSHQDQCPGWV IIGQPAASQVCRTKVIDLSEGISQHAWYPCTISYPYSQLA  
QTTFWL RAYFSQPMVAAAVIVHLVTDGTYYGDKQKETISVQLLDTKDQSHDLGLHVLSCR  
NNPLIIPVVHDL SQPFYHSQAVRVSFSSPLVAISGVALRSFDNFDPTLSSCQRGETYSP  
AEQSCVHFACEKTDCELA VENASLNCSSSDRYHGAQCTVSCRTGYVLQIRRDELIK SQ  
TGPSVTVTCTEGKWNKQVACEPVDCSIPDHHQVYAASFSCPEGTTFGSQCSFQCRHPAQL  
KGNNSL LTCMEDGLWSFPEALCELMCLAPPPVPNADLQTARCRENKHKVG SFCKYCKPG  
YHVP GSSRKSKKRAFKTQCTQDGSWQEGACVPVTCDDPPPKFHGLYQCTNGFQFNSECR I  
KCEDSDASQGLGSNIHCRKDG TWNGSFHVCQEMGGQCSVPNELNSNLKLQCPDGYAIGS  
ECATSLDHNSESIILPMNVTVRDI PHWLNPT RVERVVCTAGLKWYHPALIHCVKGCEP  
FMGDNYCDAINNRAFCNYDGGDCCTSTVKT KKVTPFPMSCDLQGDACRDPQAQEH SRKD  
LRGYSHG

>sp|043252|PAPS1\_HUMAN Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1  
OS=Homo sapiens GN=PAPSS1 PE=1 SV=2

MEIPGSLCKKVKLSNNAQNWMQRATNVTYQAHHVS RNKRQGVVGT RGGFRGCTVWLTGL  
SGAGKTTVSMALEEYLVCHGIPCYTL DGDNI RQGLNKNLGFSPEDREENVRRIA EVAKLF  
ADAGLCITSFISPYTQDRNNARQIHEGASLPFFEVFVDAPLHVCEQRDV KGLYKKARAG  
EIKGFTGIDSEYEKPEAPELV LKTDSCDVND CVQQVVELLQERDIPVDASYEVKELYVP  
ENKLHLAKTDAETLPALKINKVDMQWVQVLAEGWATPLNGFMREREYLQCLHFDCLLDGG  
VINLSVPIVLTATHEDKERLDGCTAFALMYEGRRVAILRNPEFFEHRKEERCARQWG TTC  
KNHPYIKMVMEQGDWLI GGDQLVLD R VYWN DGLDQYRLTPTELKQKF KDMNADAVFAFQL  
RNPVHNGHALLMQDTHKQLLERGYRRPVLLHPLGGWTKDDVPLMWRMKQHA AVLEEGV  
LNPETTVVAIFPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDPAGMPHPETGKDL YEPS  
HGAKVLTMAPGLITL EIVPFRVAAYNKKKKRMDYYDSEHHEDFEFISGTRMRKLAREGQK  
PPEGFMAPKAWTVL TEYYKSLEKA

>sp|Q6TCH4|PAQR6\_HUMAN Progesterone and adipoQ receptor family member 6 OS=Homo sapiens  
GN=PAQR6 PE=2 SV=2

MLSLKLPQLLQVHQVPRVFWEDGIMSGYRRPTSSALDCVLSSFQMTNETVNIWTHFLPTW  
YFLWRLALAGGPGFRAEPYHWPLL VFLLPACLYPFASCAHTFSSMSPRMRHICYFLDY

GALSLYSLGCAFPYAAYSMPASWLHGHLHQFFVPAAALNSFLCTGLSCYSRFLELESPGL  
SKVLRGTAFAYPFLFDNLPLFYRLGLCWGRGHGCGQEALSTSHGYHLFCALLTGFLFASH  
LPERLAPGRFDYIGHSHQLFHICAVLGTHFQLEAVLADMGSRRRAWLATQEPALGLAGTVA  
TLVLAAAGNLLIIAAFTATLLRAPSTCPLLQGGPLEGGTQAKQQ

>sp|Q460N3|PAR15\_HUMAN Poly [ADP-ribose] polymerase 15 OS=Homo sapiens GN=PARP15 PE=1  
SV=2

MAAPGPLPAAALSPGAPTPRELMHGVAGVTSRAGRDREAGSVLPAGNRGARKASRRSSSR  
SMSRDNKFSSKDCLSIRNVVASIQTKEGLNLKLISGDVLYIWADVIVNSVPMNLQLGGGP  
LSRAFLQKAGPMLQKELDDRRRETEEKVGNIFMTSGCNLDCKAVLHAVAPYWNNGAETSW  
QIMANI IKKCLTTVEVLSFSSITFPMIGTGS LQFPKAVFAKLILSEVFEYSSSTRPITSP  
LQEVHFLVYTNDDEGCQAFLEFTNWSRINPNKARIPMAGDTQGVVGT VSKPCFTAYEMK  
IGAITFQVATGD IATEQVDVIVNSTARTFN RKSGVSRAILEGAGQAVESECAVLAAQPHR  
DFIITPGGCLKCKII IHVPGGKDVRKTVTSVLEECEQRKYTSVSLPAIGTGNAGKNPITV  
ADNIIDAIVDFSSQHSTPSLKT VKVVIFQPELLNIFYDSMKKRDLSASLNFQSTFSMTTC  
NLPEHWTDMNHQLFCMVQLEPGQSEYNTIKDKFTRTCSSYAIEKIERIQNAFLWQSYQVK  
KRQMDIKNDHKNNERLLFHGTDADSVPYVNQHGFNRSCAGKNAVSYGKGT YFAVDASYSA  
KDTYSKPDSNGRKHMVVRVLTGVFTKGRAGLVT PPPKNPHNPTDLFDSVTNNTRSPKLF  
VVFFDNQAYPEYLITFTA

>sp|Q8N5Y8|PAR16\_HUMAN Mono [ADP-ribose] polymerase PARP16 OS=Homo sapiens GN=PARP16 PE=1  
SV=2

MQPSGWAAAREAAGRDMLAADLRCSLFASALQSYKRDSVLRFPFAS YARGDCKDFEALLA  
DASKLPNLKELLQSSGDNHKRAWDLVSWILSSKVLTIHSAGKAEFEKI QKLTGAPHTPVP  
APDFLFEIEYFDPANAKFYETKGERDLIYAFHGSRLNFHSI IHNGLHCHLNKTS LFEGEG  
TYLTS DLSLALIYSPHGHGWQHSLLGPILSCVAVCEVIDHPDV KCQTKKKDSKEIDRRRA  
RIKHSEGGDIPPKYFVVTNNQLLRVKYLLVYSQKPPKRASSQLSWFSSHWF TVMISLYLL  
LLLIVSVINSSAFQHFWNRAKR

>sp|P25116|PAR1\_HUMAN Proteinase-activated receptor 1 OS=Homo sapiens GN=F2R PE=1 SV=2

MGPRRLLLVAACFSLCGPLLSARTRARRPESKATNATLDPRSFLLRNPNDKYEPFWEDEE  
KNESGLTEYRLVSINKSSPLQQLPAFISEDASGYLTSSWLT L FVPSVYTG V FVVS LPLN  
IMAI VVFI LKMVKKPAVVYMLHLATADVLFVSVLPFKISY YFSGSDWQFGSEL CRFVTA  
AFYCNMYASILLMTVISIDRFLAVVYPMQSLSWRTLGRASFTCLAIWALAIAGVVP LLLK  
EQTIQVPLNITTCHDV LNETLLEGYYAYYFSAFSAVFFFVPLIISTVCYVSIIRCLSSS  
AVANRSKKS RALFLSAAVFCIFIICFGPTNVLLIAHYSFLSHTSTTEAAYFAYLLCVCVS  
SISCCIDPLIYYASSECQRYVYSILCKESSDPSSYNSSGQLMASKMDTCSNLNNSIY  
KKLLT

>sp|Q8TEW8|PAR3L\_HUMAN Partitioning defective 3 homolog B OS=Homo sapiens GN=PAR3B PE=1  
SV=2

MKVTVCFGRTGIVVPCKEQQLRVGELTQQALQRYLKTREKGPYVWKIHHLEYTDGGILD  
PDDVLADVVEDKDKLI AVFEEQEPLHKIESPSGNPADRQSPDAFETEVAAQLAAFKPIGG  
EIEVTPSALKLGTPLLVRSSDPVPGPPADTQPSASHPGGQSLKLVPDSTQNLEDREVL  
NGVQTELLTSPRTKDTLSDMTRTVEISGEGGPLGIHVVPFFSSLSGRILGLFIRGIEDNS  
RSKREGLFHENECIVKINNVDLVDKTFQAQDVFRQAMKSPSVLLHVLPPQNREQYEKSV  
IGSLNIFGNNDGVLKTKVPPPVHKGSKLKTANLTGTDSPETDASASLQKNKSPRPRLGG  
KPSSPSLSPLMGFGSNKNAKKIKIDLKKGPEGLGFTVVTRDSSIHGPGPIFVKNILPKGA

AIKDGRLQSGDRILEVNGRDVTGRTQEELVAMLRSTKQGETASLVIARQEGHFLPRELKG  
EPDCCALSLETSEQLTFEIPLNDSGSAGLGVSLKGNKSRETGTDLGIFIKSIIHGGAFFK  
DGRLRMNDQLIAVNGESLLGKSNHEAMETLRRSMSMEGNIRGMIQLVILRRPERPMEDPA  
ECGAFSKPCFENCQNAVTTSSRRNDNSILHPLGTCSPQDKQKGLLLPNDGWAEEVPPSPT  
PHSALGLGLEDYSHSSGVDSAVYFPDQHINFRSVTPARQPESINLKASKSMDLVPDESKV  
HSLAGQKSESPSKDFGPTLGLKKSSSLESQTAVAIEVRKNDLPFHRPRPHMVRGRGCNES  
FRAAIDKSYDGPTEEIADGLSDKSSHSGGALNCESAPQGNSELEDMENKARKVKKTKK  
EKKKEKGLKVKEKKRKEENEDPERKIKKKGFAMLRFGKKKEDKGGKAEQKGTCLKHGGL  
REEELEKMKEERERIGAKHQELREKQARGLLDYATGAIGSVYDMDDEMDPNYARVNHFR  
EPCTSANVFRSPSPPRAGPFGYPRDGHPLSPERDHLLEGLYAKVNKPYHPLVPADSGRPTG  
GSTDRIQKLKEYYQARREGFLYEDDEGRARPSEYDLLWVPGRGPDGNAHNLRFEGMER  
QYASLPRGGPADVDYLPAAPRGLYKERELPYYPGAHPMHPPKGSYPRPTELRVADLRYP  
QHYPPPPAPQHKGPFRQDVPPSPQHQRMPAYQETGRPGPRGGSPDQYPYRTQDSRQKNP  
MTAAV

>sp|000254|PAR3\_HUMAN Proteinase-activated receptor 3 OS=Homo sapiens GN=F2RL2 PE=1 SV=1

MKALIFAAAGLLLLPTFCQSGMENDTNLAKPTLPIKTFRGAPPNSFEEFPFSALEGWT  
GATITVKIKCPEESASHLVKNATMGYLTSSLSTKLIPAIYLLVFVGV PANAVTLWMLF  
FRTRSICTTVFYTNLAIDFLFCVTLPFKIAYHLNGNNWVFGEVLCRATTVIFYGNMYCS  
ILLACISINRYLAIVHPFTYRGLPKHTYALVTCGLVWATVFLYMLPFFILKQEYYLVQP  
DITTCDDVHNTCESSPFQLYYFISLAFFGFLIPFVLIICYAAIIRTLNAYDHRWLWYV  
KASLLILVIFTICFAPSNIILIIHHANYYYNNTDGLYFIYLIALCLGSLNSCLDPFLYFL  
MSKTRNHSTAYLTK

>sp|Q8TEW0|PAR3\_HUMAN Partitioning defective 3 homolog OS=Homo sapiens GN=PAR3 PE=1  
SV=2

MKVTVCFGRTRVVVPCGDGHMKVFSLIQQAVTRYRKAIKDPNYWIVHRLEHGDGGILD  
LDDILCDVADDKDRLVAVFDEQDPHHGGDTSASSTGTQSPEIFGSELGTNNVSAFQPYQ  
ATSEIEVTPSVLRANMPLHVRSSDPALIGLSTSVSDSNFSSEEPSRKNPTRWSTTAGFL  
KQNTAGSPKTCDRKKDENYRSLPRDTSNWSNQFQRDNARSSLASHPMVGKWEKQEQQDE  
DGTEEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPNDGGPLGIHVVPFSARGGRTL  
LLVKRLEKGGKAEHENLFRENDICVRINDGDLNRNRFEQAHMFRQAMRTPIIWFHVPA  
ANKEQYEQLSQSEKNYYSSRFSFSDSYIDNRSVNSAGLHTVQRAPRLNHPPEQIDSHSR  
LPHSAHPSGKPPSAPASAPQNVFSTTVSSGYNTKKIGKRLNIQLKKGTEGLGFSITSRDV  
TIGGSAPIYVKNILPRGAAIQDGRKAGDRLIEVNGVDLVGKSQEEVVSLLRSTKMEGT  
V  
SLLVFRQEDAFHPRELNAEPSQMIPKETKAEDDIVLTPDGTREFLTFEVPLNDSGSAG  
LGVSVKGNRSKENHADLGIFVKSIINGGAASKDGRLRVNDQLIAVNGESLLGKTNQDAME  
TLRRSMSTEGNKRGMQLIVARRISKCNELKSPGSPGPPELP IETALDDRERRISHSLYS  
GIEGLDESPSRNAALSIRIMGESGKYQLSPTVNMPQDDTVI IEDDRLPVLPPHLSQSSSS  
SHDDVGFTADAGTWAKAAISDSADCSLSPDVPVLAQFQREGFRQSMSEKRTKQFSDAS  
QLDFVKTRKSKSMDLGIADETKLTVDQKAGSPSRDVGPSLGLKKSSSLESQTAVAIEV  
TLNGDIPFHRPRPRIIRGRGCNESFRAAIDKSYDKPAVDDDDDEGMETLEEDTEESSRSGR  
ESVSTASDQPSHSLERQMNGNQEKGDKTDRKKDKTGKEKKDRDKEKDKMAKKGMLKGL  
GDMFRFGKHKDDKIEKTGKIKIQESFTSEEERIRMKQEQUERIQAKTREFRERQARERDY  
AEIQDFHRTFGCDELMYGGVSSYEGSMALNARQSPREGHMDALYAQVKKPRNSKPS  
VDSNRSTPSNHDRIQRLRQEFQQAQKQDEVEDRRRTYSFEQWPVNARPATQSGRHSVSVE

VQMRQRQEERESSQQAQRQYSSLPQRSKNASSVSQDSWEQNYSPGEGFQSAKENPRYS  
SYQGSRRNGYLGGHGFNARVMLETQELLRQEQRKEQQMKKQPPSEGPSNYDSYKKVQDPS  
YAPKGPFRQDVPPSPSQVARLNRLQTPEKGRPFYS

>sp|P09874|PARP1\_HUMAN Poly [ADP-ribose] polymerase 1 OS=Homo sapiens GN=PARP1 PE=1 SV=4

MAESSDKLYRVEYAKSGRASCKKCESEIPKDSLRLMAIMVQSPMFDGKVPWHYHFSCFWKV  
GHSIRHPDVEVDGFSELRWDDQQKVKKTAEAGGVTGKGQDGIGSKAEKTLGDFAAEYAKS  
NRSTCKGCMKEIEKGQVRLSKKMVDPEKPQLGMIDRWYHPGCFVKNREELGFRPEYSASQ  
LKGFSLLATEDKEALKKQLPGVKSEGRKGDEVDGVDEVAKKKSKKEKDKSKLEKALKA  
QNDLIWNIKDELKKVCSTNDLKELLI FNKQQVPSGESAILDRVADGMVFGALLPCEECSSG  
QLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKKLVKKQDRIFPPE  
TSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGKLT  
GTANKASLCISTKKEVEKMNKKMEEVKEANIRVVSEDFLQDVSASTKSLQELFLAHILSP  
WGAEVKAEPVEVAVPRGKSGAALSCKSKGQVKEEGINKSEKRMKLTGGAAVDPDSGLE  
HSAHVLEKGGKVFSATLGLVDIVKGTNSYYKLQLEDDKENRYWIFRSWGRVGTVIGSNK  
LEQMPSKEDAI EHFMKLYEEKTGNAWHSKNFTKYPKKFYPLEIDYGQDEEAVKKLTVNPG  
TKSKLPKPVQDLIKMIFDVESMKAMVEYEIDLQKMPLGKLSKRQIQAAYSILSEVQQAV  
SQGSSDSQILDLSNRFYTLIPHDFGMKKPPLNNAHSVQAKVEMLDNLLDIEVAYSLLRG  
GSDDSSKDPIDVNYEKLKTDIKVVDRESEAEIRKYVKNTHATTHNAYDLEVIDIFKIE  
REGECQRYKPFKQLHNRLLWHGSRTTNFAGILSGLRIAPPEAPVTGYMFGKGIYFADM  
VKSANYCHTSQGDPIGLILLGEVALGNMYELKHASHISKLPKGKHSVKGLGKTTDPDSA  
NISLDGVDVPLGTGISSGVNDTSLLYNEYIVYDIAQVNLKYLLKLKFNFKTSLW

>sp|Q86U86|PB1\_HUMAN Protein polybromo-1 OS=Homo sapiens GN=PBRM1 PE=1 SV=1

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KDEQGRLLCELFIRAPKRRNQPDYEVVSQPIDLMKIQQKLKMEYDDVNLLTADFQLLF  
NNAKSYYPKDSPEYKAACKLWDLYLRTNEFVQKGEADDEDDDEDGQDNQGTVTEGSSPA  
YLKEILEQLLEAIVVATNP SGRLISELFQKLPSKVQYPDYAIIKEPIDLKTIAQRIQNG  
SYKSIHAMAKDIDLLAKNAKTYNEPGSQVFKDANSIKKIFYMKKAEIEHHEMAKSSLRMR  
TPSNLAAARLTGPSHSGSLGEERNPTSKYYRNKRAVQGGRLSAITMALQYGESEEDAA  
LAAARYEEGESEAESITSFMDVSNPFYQLYDTVRSCRNNQGQLIAEPFYHLP SKKKYPDY  
YQQIKMPI SLQQIRTKLKNQEYETLDHLECDLNL MFENAKRYNVPNSAIYKRVLKLQQVM  
QAKKELARRDDIEDGSMISSATSDTGSARKSKKNIRKQRMKILFNVVLEAREPGSGR  
RLCDLFMVKPSKKDPDYKYIILEPMDLKIIEHNIRNDKYAGEEGMIEDMKLMFRNARHY  
NEEGSQVYNDAHILEKLLKEKRKELGPLDDDDMASPKLKL SRKSGISP KSKYMTMPQQ  
KLNEVYEAVKNYTDKRGRRLSAIFLRLPSRSELPDYILT IKKPMDEKIRSHMMANKYQD  
IDSMVEDFVMMFNACTYNEPESLIYKDALVLHKVLL ETRRDLEGEDSHVPNTLLIQE  
LIHNL FVSVMSHQDDEGRCYSDSLAEIPAVDPNFPNKPPLTFDIIRKNVENNRYRRLDLF  
QEHMFVLERARRMNRTDSEIYEDAVELQQFFIKIRDELCKNGEILLSPALSYTTKHLHN  
DVEKERKEKLPEIEEDKLKREEEKREAEKSEDSSGAAGLSGLHRTYSQDCSFKNSMYHV  
GDYVYVEPAEANLQPHIVCIERLWEDSAGEKWLYGCWFYRPNETFHLATRKFLEKEVFKS  
DYYNKVPVSKILGKCVVMFVKEYFKLCPENFRDEDVFCESRYSAKTSFKKIKLWTMPI  
SSVRFVPRDVPLPVVRVASVFANADKGDEKNTDSEDSRAEDNFNLEKEKEDVPVEMSN  
GEPGCHYFEQLHYNDMWLKVGD CVFIKSHGLVRPRVGRIEKVWVRDGAAYFYGPIFIHPE  
ETEHEPTKMFYKKEVFLSNLEETCPMTCILGKCAVLSFKDFLSCRPT EIPENDILLCESR  
YNESDKQMKKFKGLKRFSLSAKVVDDEIYYFRKPIVPQKEPSPLLEKKIQLLEAKFAELE

GGDDDIIEEMGEEDSEVIEPPSLPQLQTPLASELDLMPYTPPQSTPKSAKGSAKKEGSKRK  
INMSGYILFSSEMRVIAQHPDYSFGELSRLVGTEWRNLETAKKAEYEERAAKVAEQQE  
RERAAQQQQPSASPRAGTPVGALMGVVPPTPMGMLNQQLTVPAGMMGGYPPLPPLQGP  
VDGLVSMGSMQPLHPGGPPPHLPPGVPLPGIPPPGMNQGVAPMVGTPAPGGSPYGGQ  
VGVLGPPGQAPPYPGPHAGPPVIQQPTTPMFVAPPPKTQRLHSEAYLKYIEGLSAE  
SNSISKWDQTLAARRRDVHLSKEQESRLPSHWLKSAGAHTTMADALWRLRDLMLRDTLNI  
RQAYNLENV

>sp|Q86TG7|PEG10\_HUMAN Retrotransposon-derived protein PEG10 OS=Homo sapiens GN=PEG10  
PE=1 SV=2

MTERRRDELSEEINNLRKVMKQSEENNNLQSQVQKLTEENTTLREQVEPTPEDEDDIE  
LRGAAAAAAPPPIEEECPEDLPEKFDGNPDMLAPFMAQCQIFMEKSTRDFSVDVRVCF  
VTSMMTGRAARWASAKLERSHYLMHNYPAFMMEMKHVFEDPQRREVAKRKIRRLRQMGMS  
VIDYSNAFQMIAQDLWNEPALIDQYHEGLSDHIQEELSHLEVAKSLSALIGQCIHIERR  
LAAAAAARKPRSPRALVLPHIASHHQVDPTEPVGGARMRLTQEEKERRRKLNLCLYCGT  
GGHYADNCPAKASKSSPAGKLPGPAVEGPSATGPEIIRSPQDDASSPHLQVMLQIHLPGR  
HTLFVRAMIDSGASGNFIDHEYVAQNGIPLRIKDWPILVEAIDGRPIASGPVVHETHDLI  
VDLGDHREVLVSFDVTQSPFFPVVLGVRWLSTHDPNITWSTRSIVFDSEYCRYHCRMYSPI  
PPSLPPPAPQPPLYYPVDGYRVYQPVRYYYVQNVYTPVDEHVYPDHRLVDPHIEMIPGAH  
SIPSGHVYSLSEPEMAALRDFVARNVKDGLITPTIAPNGAQVLQVKRGWKLQVSYDCRAP  
NNFTIQNQYPRLSIPNLEDQAHLATYTEFVPQIPGYQTYPTYAAYPTYPVGFAWYPVGRD  
GQGRSLYVPVMITWNPHWYRQPPVPQYPPPPPPPPPPPPPSYSTL

>sp|P12955|PEPD\_HUMAN Xaa-Pro dipeptidase OS=Homo sapiens GN=PEPD PE=1 SV=3

MAAATGPSFWLGNELTKVPLALFALNRQLCERLRKNPAVQAGSIVVLQGGREETQRYCTD  
TGVLFRRQESFFHWAFGVTEPGCYGVIDVDTGKSTLFVPRLPASHATWMGKIHSKEHFKEK  
YAVDDVQYVDEIASVLTSQKPSVLLTLRGVNTDSGSVCREASFDGISKFEVNNTILHPEI  
VECRVFKTDMELEVLRYTNKISSEAHREVMKAVKVGMEYELESLEHYCYSRGGMRHSS  
YTCICSGGENSAVLHYGHAGAPNDRTIQNGDMCLFDMGGEYYCFASDITCSFPANGKFTA  
DQKAVYEAVLRSSRAVMGAMKPGVWWPDMHRLADRIHLEELAHMGILSGSVDAMVQAHLG  
AVFMPHGLGHFLGIDVDVGGYPEGVERIDEPLRSLRTARHLQPGMVLTVEPGIYFIDH  
LLDEALADPARASFLNREVLQRFGRFGGVRIEEDVVVTDSGIELLTCVPRTVEEIEACMA  
GCDKAFTPFSGPK

>sp|Q5SV97|PERM1\_HUMAN PGC-1 and ERR-induced regulator in muscle protein 1 OS=Homo sapiens  
GN=PERM1 PE=2 SV=4

MENFQYSVQLSDQDWAEFSADECGLLQAGLASGDELLSSDIDQGDSSGSSPPRAPPLP  
TGQLAAGGRSRRGCEEEDVATQQPVSRSQGEPVLALGTGQQTPTSARAEAPPSLPGPAS  
PPSQFSSCPGPASSGDMQRLQGPAPRPPGEPGSPKSPGHSTGSQRPPDSPGAPPRSP  
SRKKRRRAVGAKGGGHTGASASAQTGSPLPAASPETAKLMAKAGQEELGPGPAGAPEPGP  
RSPVQEDRPGPGLGLSTPVPVTEQGTQIRTTPRAKLHTVSTTVWEALPDVSRKSDMAV  
STPASEPQPDRDMAVSTPASEPQSDRDMAVSTPASEPQPDMDMAVSTPASEPQPDRDMAV  
SIPASKPQSDTAVSTPASEPQSSVALSTPISKPQLDTDVAVSTPASKHGLDVALPTAGPV  
AKLEVASSPPVSEAVPRMTESSGLVSTPVPRADAAGLAWPPTRRAGPDVVEAEVSEPS  
AGAPGCCSGAPALGLTQVPRKKKVRFSVAGPSPNKPGSGQASARPSAPQTATGAHGGPGA  
WEAVAVGPRPHQPRILKHLPRPPSAVTRVGPSSFAVTLPEAYEFFCDTIEENEEAEA  
AAAGQDPAGVQWPDMEFFFPDVGARSRRRGSPEPLPRADPVPAPIPGDPVPISIPY



EHFFFGE DRLEGLGPAVPLPLQALEPPRSASEGAGPGTPLKPAVVERLHLALRRAGELR  
GPVPSFAFSQNDMCLVFVAFATWAVRTSDPHTPDAWKTALLANVGTISAIRYFRRQVGQG  
RRSHSPSPSS

>sp|Q6Y7W6|PERQ2\_HUMAN PERQ amino acid-rich with GYF domain-containing protein 2 OS=Homo sapiens GN=GIGYF2 PE=1 SV=1

MAAETQTLNFGPEWLRALSSGGSITSPPLSPALPKYKLADYRYGREMLALFLKDNKIPS  
DLLDKFPLPILQEEPLPLALVPFTEEEQRNFSMSVNSAAVLRLTGRGGGGTVVGAPRGR  
SSSRGRGRGRGECGFYQRSFDEVEGVFGRGGGREGMHRSQSWEERGDRRFKPGRKDVGRP  
NFEEGGPTSVGRKHFEIRSESENWRIFREEQNGEDEDGGWRLAGSRRDGERWRPHSPDGP  
RSAGWREHMERRRRFEFDFRDRDDERGYRRVRSRSGSIDDDRDSLPEWCLEDAEEEMGTF  
DSSGAFLSLKKVKQKEPIPEEQEMDFRPVDEGEECSDSEGSHNEEAKEPDKTNKKEGEKTD  
RVGVEASEETPQTSSSSARPGTPSDHQSQEASQFERKDEPKTEQTEKAEETRMENSLPA  
KVPSRGDEMADVQQPLSQIPSDTASPLLILPPVPNPSPTLRPVETPVVGAPGMGSVST  
EPDDEEGLKHLEQQAEMVAYLQDSALDDERLASKLQEHRAKGVSIPLMHEAMQKWYYKD  
PQGEIQGPFNNQMAEWFQAGYFTMSLLVKRACDESQPLGDIKMWGRVPFSPGPAPPP  
HMGELDQERLTRQQELTALYQMQLQYQQFLIQQQYAQVLAQQQKAALSSQQQQQLALLL  
QQFQTLKMRISDQNIIPSVTRSVSVPDTGSIWELQPTASQPTVWEGGSVWDLPLDTTTPG  
PALEQLQQLKAKAAKLEQERREAEMRAKREEEERKRQEELRRQQEEILRRQQEEERKR  
EEEEELARRKQEEALRRQREQEIALRRQREEEERQQQEEALRRLEERRREEERKRQEELL  
RKQEEEAARKWAREEEEEAQRRLEENRLRMEEEAARLRHEEEERKRKELEVQRQKELMRQRQ  
QQQEEALRRLLQQQQQQQLAQMKLPSSSTWGQSNNTTACQSQATLSLAEIQKLEERERQL  
REEQRRQQRELKALQQQQQQQQKLSGWGNVSKPSGTTKSLEIQQEEARQMKGQQQQQ  
QQHQQPNRARNNTHSNLHTSIGNSVWGSINTGPPNQWASDLVSSIWSNADTKNSNMGFWD  
DAVKEVGPRNSTNKNKNASLSKSVGVSNRQNKVVEEEKLLKLFQGVNKAQDGFTQWCE  
QMLHALNTANNLDVPTFVSFLKEVESPYEVHDYIRAYLGDTSEAKEFAKQFLERRAKQKA  
NQRRQQQLPQQQQQPPPPQQPQQQDSVWGMNHSTLHSVFQTNQSNQQSNFEAVQS  
GKKKKKQKMVRADPSLLGFSVNASSERLNMGEIETLDDY

>sp|O00541|PESC\_HUMAN Pescadillo homolog OS=Homo sapiens GN=PES1 PE=1 SV=1

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKVKNKGSTA  
ARTFYLIKDIRFLLHEPIVKNKFREYKVFVRKLRKAYGKSEWNTVERLKDKNPNYKLDHII  
KERYPTFIDALRDLDDALSMCFLFSTFPRTGKCHVQTIQLCRRLTVEFMHYIIAARALRK  
VFLSIKGIYYQAEVLGQPIVWITPYAFSHDHPTVDYRVMATFTEFYTTLLGFVNFRLYQ  
LLNLHYPPKLEGQAQAEAKAGEGTALDSESCMEKLAALSASLARVVVPATEEEAEVDEF  
PTDGEMSAQEEDRRKELEAQEKHKKLFEGLKFFLNREVPREALAFIIRSFGGEVSWDKSL  
CIGATYDVTDsrithQIVDRPGQQTsvIGRCYVQPQWVFDsvNARLLLPVAEYFSGVQLP  
PHLSPFVTEKEGDYVPPEKLKLLALQRGEDPGNLNESEEEEEEDDNEGDGDEEGENEEE  
EEDAEGSEKEEEARLAALQEQRMGKPRVMAGTLKLEDKQRLAQEESEAKRLAIMMM  
KKREKYLQKIMFGKRRKIREANKLAEKRAHDEAVRSEKKAKKARPE

>sp|O00628|PEX7\_HUMAN Peroxisomal targeting signal 2 receptor OS=Homo sapiens GN=PEX7 PE=1 SV=1

MSAVCGGAARMLRTPGRHGAAEFSPYLPGRACATAQHYGIAGCGTLLILDPDEAGLRL  
FRSFDWNDGLFDVTSSENNEHVLITCSGDGSLQLWDTAKAAGPLQVYKEHAQEVYSVDWS  
QTRGEQLVVGSGWDQTVKLWDPTVGKSLCTFRGHESIISTIWSPHIPGCFASASGDQTL  
RIWDVKAAGVRIVIPAHQAEILSCDWCKYNENLLVTGAVDCSLRGWDLRNVRQPVFELLG

HTYAIRRVKFSPFHASVLASCSYDFTVRFWNFSKPDLSLLETVEHHTTEFTCGLDFSLQSPT  
QVADCSWDETIKIYDPACLTIPA

>sp|Q96EK2|PF21B\_HUMAN PHD finger protein 21B OS=Homo sapiens GN=PHF21B PE=2 SV=1

MELQSRPEALAVELARHQNGDLKKQLHERQPRIAAALSDKQALGTITAVPVTGPQVSSLQR  
LAGQGA AVL PQVRPKTLIPDSL PVAPGRDRPPKQPPTFQKATVVSVKNPSPALPTANNTV  
SHVPAPGSQPQALAEPAALASPLSSAGVAYAIISTSPSNAAAMAPSTAVSVVSDSIKVQP  
LLISADNKPPRLSSPHPATHHCPLHPSSLPLTPSPSLSPSPLHGIFQVIIIQPVQQT  
QPESTAESRPPTTEEPSQGAQATKKKKEDRPPTQENPEKIAFMVALGLVTTEHLEEQSKR  
QERKRRSTANPAYSGLLETERKRLASNYLNNPLFLTARANEDPCWKNEITHDEHCAACKR  
GANLQPCGTCPGAYHLSCLEPPLKTAPKGVWVCPRCQQKALKKDEGVPTGMLAIVHSYV  
THKTVKEEEKQKLLQRGSELQNEHQLEERDRRLASAVQKCLELKTSLLARQRTQSLLD  
RLRALLRLIQGEQLLQVTMTTTSAPLLAGPWTKPSVAATHPTVQHPQGHN

>sp|Q4VXU2|PAP1L\_HUMAN Polyadenylate-binding protein 1-like OS=Homo sapiens GN=PABPC1L  
PE=2 SV=1

MNASGSGYPLASLYVGDLPDVTTEAMLYEKFSPAGPILSIRVCRDVATRRSLGYAYINFQ  
QPADAERALDTMNFEMLGQPIRIMWSQRDPGLRKSGVGNIFIKNLEDSIDNKALYDTFS  
TFGNILSCKVACDEHSGRFGFVFHETHEAAQQAINTMNGMLLNDKRVFVGHFKSRRERE  
AELGARALEFTNIYVKNL PVDVDEQGLQDLFSQFGKMLSVKVMRDN SGHSRCFGFVNFEK  
HEEAQKAVVHMNGKEVSGRLLYAGRAQKRVERQNELKRRFEQMKQDRLRRYQGVNLYVKN  
LDDSIDDDKLRKEFSYPYGVITSAKVMTEGGHSGKGFVCFSSPEEATKAVTEMNGRIVGT  
KPLYVALAQRKEERKAILTNQYMQRLSTMRTLSNPLLGSFQQPSSYFLPAMPQPPAQAAAY  
YGC GPVTPTQPAPRWTSQPPRPS CSMVRPPVPPRRPPAHISSVRQASTQVPRTVPHTQR  
VANIGTQTTGPSVGVCCTPGRPLL PCKCSSAAHSTYRVQEP AVHIPGQEPLTASMLAAAP  
LHEQKQMIGERLYPLIHDVHTQLAGKITGM LLEIDNSEL LLMLESPE SLHAKIDEAVAVL  
QAHQAMEQPKAYMH

>sp|Q8N4S7|PAQR4\_HUMAN Progesterone and adipoQ receptor family member 4 OS=Homo sapiens  
GN=PAQR4 PE=2 SV=3

MAFLAGPRLLDWASSPHLQFNKFVLTGYRPASSGSGCLRSFYLHNELGNIYTHGLALL  
GFLVLVPMTMPWGQLGKDGWLGTHCVACLAPPAGSVLYHLFMCHQGGSAVYARLLALDM  
CGVCLVNTLGALPIIHCTLACRPWLRPAALVGYTVLSGVAGWRALTAPSTSARLRAFGWQ  
AAARLLVFGARGVGLGSGAPGSLPCYL RMDALALLGGLVNVARLPERWGPGRFDYWGNSH  
QIMHLLSVGSILQLHAGVVPDLLWAAHHACPRD

>sp|Q8IY49|PAQRA\_HUMAN Monocyte to macrophage differentiation factor 2 OS=Homo sapiens  
GN=MMD2 PE=1 SV=2

MFAPRLLD FQKTKYARFMNHRVPAHKRYQPT EYEHAANCATHAFWIIIPSILGSSNLYFLS  
DDD WETISAWIYGLGLCGLFVVSTVFHTISWKKSHLRMVEHCLHMFDRMVIYFFIAASYA  
PWLNLRELGPWASHMRWLWIMASVGTIYVFFFHERTGSCVQFLRGEACPKAGTACLPAR  
YKVELLCYVVMGFFPALVILSMPNTEGIWELVTGGVFYCLGMVFFKSDGRIPFAHAIWH  
LFVAFGAGTHYYAIWRYLYLPSTLQTKVSK

>sp|Q9H0J9|PAR12\_HUMAN Poly [ADP-ribose] polymerase 12 OS=Homo sapiens GN=PARP12 PE=1  
SV=1

MAQAGVVGEVTQVLCAAGGALELPELRRRLRMGLSADALERLLRQRGRFVAVRAGGAAA  
APERVVLAASPLRLCRAHQSGKPGCVGLCAQLHLCRFMVYGACKFLRAGKNCNRNSHSLTT  
EHNLSVLRTHGVDHLSYNELCQLLFQNDPWLLPEICQHYNKGDGPHGSCAFQKQCIKLHI

CQYFLQGECKFGTSCKRSHDFSNSENLEKLEKLGMSDDLVSRLPTIYRNAHDIKNKSSAP  
SRVPPLFVPQGTSEKRDSSGSVSPNTLSQEEGDQICLYHIRKSCSFQDKCHRVHFHLPYR  
WQFLDRGKWEDLDNMELIEEAYCNPKIERILCSESASTFHSCLNFNAMTYGATQARRLS  
TASSVTKPPHFILTTDWIYWWSDEFGSWQEYGRQGTVHPVTTVSSSDVEKAYLAYCTPGS  
DGQAATLKFKQAGKHNYELDFKAFVQKNLVYGTTKKVCRRPKYVSPQDVTMTQCNCKFPG  
PKSIPDYWDSSALPDPGFQKITLSSSSSEYQKVWNLFNRTLPHYFVQKIERVQNLALWEV  
YQWQKGQMQKQNGGKAVDERQLFHGTS AIFVDAICQQNFDWRVCGVHGTSYGKGSYFARD  
AAYSHHYSKSDTQTHMFLARVLVGEFVRGNASFVRPPAKEGWSNAFYDSCVNSVSDPSI  
FVIFEKHQVYPEYVIQYTTSSKPSVTPSILLALGSLFSSRQ

>sp|Q460N5|PAR14\_HUMAN Poly [ADP-ribose] polymerase 14 OS=Homo sapiens GN=PARP14 PE=1  
SV=3

MAVPGSFPLLVEGSWGPDPKPNLNTKLQMYFQSPKRSGGGECEVRQDPRSPSRFLVFFYP  
EDVRQKVLERKNHELWVGKGTFKLTVQLPATPDEIDHVFEEELLTKESKTKEDEVKEPDV  
SEELDTKLPLDGGLDKMEDIPPECENISSLVAFENLKANVTDIMLILLVENISGLSNDDE  
QVEIIRDFDVAVVTFQKHIDTIRFVDDCTKHHSIKQLQLSPRLLEVTNTIRVENLPPGAD  
DYSKLFFENPYNGGGRVANVEYFPEESSALIEFFDRKVLDTIMATKLDNFKMPLSVFPY  
YASLGALYGKEKPLIKLPAPFEESLDLPLWKFLQKKNHLEIEINDEMRRCHCELWSQL  
SGKVTIRPAATLVNEGRPRIKTWQADTSTTLSSIRSKYKVNPIKVDPTMWDTIKNDVKDD  
RILIEFDTLKEMVILAGKSEDVQSIEVQVRELIESTTQKIKREEQSLKEKMIISPGRYFL  
LCHSSLLDHLTECPEIEICYDRVTQHLCLKGPSADVAKACEIQEKVYTMAQKNIQVSP  
EIFQFLQQVNWKEFSKCLFIAQKILALYELEGTTVLLTSCSSEALLEAEKQMLSALNYKR  
IEVENKEVLHGKKWKGLTHNLLKKQNSSPNTVIINELTSETTAEVIIITGCVKEVNETYKL  
LNFVFEQNMKIERLVEVKPSLVIDYLKTEKKLFWPKIKKVNQVSNPNENKQKGILLTGS  
KTEVLKAVDIVKQVWDSVCVKSVDTKPGAKQFFQDKARFYQSEIKRLFGCYIELQENEV  
MKEGGSPAGQKCFRTVLAPGVVLIVQQGDLARLPVDVVNASNEDLKHYGGLAAALSKA  
AGPELQADCDQIVKREGRLPGNATISKAGKLPYHHVIAVGPWSGYEAPRCVYLLRRA  
VQLSLCLAEKYKYRSIAIPAISGVSFGFPLGRCVETIVSAIKENFQFKKDGHCLKEIYLV  
DVSEKTVEAFAEAVKTVFKATLPDTPAAPPGLPPAAAGPGKTSWEKGSLSVSPGGLQMLLVK  
EGVQNAKTDVVVNSVPLDLVLSRGPLSKSLLEKAGPELQEELDTVGQGVAVSMGTVLKTS  
SWNLDCRYVLHVVAPEWRNGSTSSLKIMEDIIRECMEITESLSLKSIAFFAIGTGNLGF  
KNIFAEIIIEVFKFSSKNQLKTLQEVHFLHPSDHENIQAFSDEFARRANGNLVSDKIP  
KAKDTQGFYGTVSSPDSGVYEMKIGSIIIFQVASGDITKEEADVIVNSTSNSFNKAGVSK  
AILECAGQNVRECSQQAQQRKNDYIITGGGFLRCKNIIHVIGGNDVKSSVSSVLQECEK  
KNYSSICLPAIGTGNAKQHPDKVAEAIIDAIEDFVQKGSASVKKVKVVIPLQVLDVFI  
ANMKKREGTQLSSQSVMSKLASFLGFSKQSPQKKNHLVLEKKTESATFRVCGENVTCVE  
YAIWLQDLIEKEQCPYTSSEDECIKDFDEKEYQELNELQKKLNINISLDHKKRPLIKVLGI  
SRDVMQARDEIEAMIKRVRLAKEQESRADCISEFIEWQYNDNNTSHCFNKMTNLKLEDAR  
REKKKTVDVKINHRHYTVNLNTYTATDTKGHSLSVQRLTKSKVDIPAHWSDMKQNFV  
ELLPSDPEYNTVASKFNQTCSHFRIEKIERIQNPDLWNSYQAKKKTMDAKNGQTMNEKQL  
FHGTDAGSVPHVNRNGFNRSYAGKNAVAYGKGYFAVNANYSANDTYSRPDANGRKHVY  
VRVLTGIYTHGNHSLIVPPSKNPQNPTDLYDTVDNVHHPSLFVAFYDYQAYPEYLITFR  
K

>sp|P55085|PAR2\_HUMAN Proteinase-activated receptor 2 OS=Homo sapiens GN=F2RL1 PE=1 SV=1  
MRSPSAAWLLGAAILLAASLSCSGTIQGTNRSSKGRSLIGKVDGTSHTVGKGVTVETVFS

VDEFSASVLTGKLTTFVFLPIVYTIVFVVGGLPSNGMALWVFLFRTKKKHPAVIYMANLALA  
DLLSVIWFPLKIAHYHIHGNNWIYGEALCNVLIGFFYGNMYCSILFMTCLSVQRYWVIVNP  
MGHSRKKANIAIGISLAIWLLILLVTIPLYVVKQTIFIPALNITTCHDVLPEQLLVGDMF  
NYFLSLAIGVFLFPAFLTASAYVLMIRMLRSSAMDENSEKKRKRAIKLIVTVLAMYLICF  
TPSNLLLVVHYFLIKSQGQSHVYALYIVALCLSTLNSCIDPFVYFVSHDFRDHAKNALL  
CRSVRTVKQMQLVSLTSKKHSRKSSSYSSSSTTVKTSY

>sp|Q6UWI2|PARM1\_HUMAN Prostate androgen-regulated mucin-like protein 1 OS=Homo sapiens  
GN=PARM1 PE=1 SV=1

MVYKTLFALCILTAGWRVQSLPTSAPLSVSLPTNIVPPTTIWTSSPQNTDADTASPSNGT  
HNNSVLPVTASAPTSLLPKNISIESREEITSPGSNWEGTNTDPSPSGFSSTSGGVHLTT  
TLEEHSSTPEAGVAATLSQSAAPPTLISPQAPASSPSSLSTSPPEVFSASVTTNHSST  
VTSTQPTGAPTAPESPTTESSDHTPTSHATAEPVPQEKTPPTTVSGKVMCELIDMETTT  
TFPRVIMQEVEHALSSGSIAAITVTVIAVLLVFGVAAYLKIRHSSYGRLLDDHDYGSWG  
NYYNPLYDDS

>sp|Q08499|PDE4D\_HUMAN cAMP-specific 3',5'-cyclic phosphodiesterase 4D OS=Homo sapiens  
GN=PDE4D PE=1 SV=2

MEAEGSSAPARAGSGEGSDSAGGATLKAPKHLWRHEQHHQYPLRQPQFRLHPPHHLPPP  
PPSPSPQPQCPLQPPPPPLPPPPPPGAARGRYASSGATGRVRHRGYSDTERLYLCRA  
MDRTSYAVETGHRPGLKKSRMSWPSSFQGLRRFDVDNGTSAGRSPLDPMTPSGSGLILQA  
NFVHSQRRESFLYRSDSDYDLSPKMSRNSSIASDIHGDDLIVTPFAQVLASLRTVRNNF  
AALTNLQDRAPSKRSPMCNQPSINKATITEEAYQKLASETLEELDWCLDQLETQTRHSV  
SEMASNKFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEVEIPSPTQKEKEKKKRP  
MSQISGVKKLMHSSSLTNSSIPRFVVKTEQEDVLAKELEDVNKWLHVFRIAELSGNRPL  
TVIMHTIFQERDLLKTFKIPVDTLITYLMTLEDHYHADVAYHNNIHAADVQSTHVLLST  
PALEAVFTDLEILAAIFASAIHDVDHPGVSNQFLINTNSELALMYNDSSVLENHHLAVGF  
KLLQEENCDFQNLTKKQRQSLRKMVIDIVLATDMSKHMNLLADLKTMTVETKKVTSSGVL  
LLDNYSDRIQVLQNMVHCADLSNPTKPLQLYRQWTDRIEEMFFRQGDREERERGMEISPMC  
DKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQDILDTELDNREWYQSTIPQSPSPAP  
DDPEEGRQGQTEKFQFELTLEEDGESDTEKDSGSQVEEDTSCSDSKTLCTQDSESTEIPL  
DEQVEEEAVGEEESQPEACVIDDRSPDT

>sp|076074|PDE5A\_HUMAN cGMP-specific 3',5'-cyclic phosphodiesterase OS=Homo sapiens  
GN=PDE5A PE=1 SV=2

MERAGPSFGQQRQQQPQQKQQRDQDSVEAWLDDHWDFTFSYFVRKATREMVNAWFAE  
RVHTIPVCKEGIRGHTESCSCPLQQSPRADNSAPGTPTRKISASEFDRPLRPVVKDSEG  
TVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLLELVKDISSHLDTALCHKIFLHIHGLI  
SADRYSLFLVCEDSSNDKFLISRLFDVAEGSTLEEVSNNCIRLEWNKGIVGHVAALGEPL  
NIKDAYEDPRFNAEVDQITGYKTQSILCMPIKNHREEVVGVAQAINKKSGNGGTFTKDE  
KDFAAYLAFCGIVLHNAQLYETSLENKRNVLLDLASLIFEEQQSLEVILKKIAATIIS  
FMQVQKCTIFIVDEDCSDSFSSVFHMECEELEKSSDTLTREHDANKINYMYAQYVKNTME  
PLNIPDVSKDKRFPWTENTGNVNQQCIRSLLCTPIKNGKKNKVIGVCQLVNKMEENTGK  
VKPFNRNDEQFLEAFVIFCGLGIQNTQMYEAVERAMAKQMTLEVLSYHASAAEEETREL  
QSLAAAVVPSAQTILKITDFSFSDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWIL  
SVKKNYRKNVAYHNWRHAFNTAQCMFAALKAGKIQNKLTDLILALLIAALSHDLDRGV  
NNSYIQRSEHPLAQLYCHSIMEHHHFDQCLMILNSPGNQILSGLSIEEYKTTLKI IKQAI

LATDLALYIKRRGEFFELIRKNQFNLEDPHQKELFLAMLTACDLSAITKPWPIQQRIAE  
LVATEFFDQGDREKELNIEPTDLMNREKKNKIPSMQVGFIDAICLQLYEALTHVSEDCF  
PLLDGCRKNRQKWQALAEQQEKMLINGESGQAKRN

>sp|Q13946|PDE7A\_HUMAN High affinity cAMP-specific 3',5'-cyclic phosphodiesterase 7A  
OS=Homo sapiens GN=PDE7A PE=1 SV=2

MEVCYQLPVLPLDRPVPQHVLSSRRGAISFSSSSALFGCPNPRQLSQRRAISYDSSDQTA  
LYIRMLGDVVRVSRAGFESERRGSHPIYIDFRIFHSQSEIEVSVSARNIRRLSFQRYLRS  
SRFFRGTAVSNSLNILDDDYNQAKCMLEKVGNNWFIDFLFDRLTNGNSLVSLTFHLFSL  
HGLIEYFHLDMMLRRFLVMIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLANSVTPW  
DILLSLIAAATHDLDPGVNQPFILKTNHYLATLYKNTSVLENHHWRSVAVGLLRESGLFS  
HLPLESRQQMETQIGALILATDISRQNEYLSLFRSHLDRGDLCELTTRHRLVLQMAKLC  
ADICNPCRTWELSKQWSEKVTSEFFHQGDIEKKYHLGVSPLCDRHTESIANIQIGFMTYL  
VEPLFTEWARFSNTRLSQTMLGHVGLNKASWKGLQREQSSSEDTDAAFELNSQLLPQENR  
LS

>sp|Q13087|PDIA2\_HUMAN Protein disulfide-isomerase A2 OS=Homo sapiens GN=PDIA2 PE=1 SV=2

MSRQLLPVLLLLLLRASC PWGQEQGARSPSEEPPEEEIPKEDGILVLSRHTLGLALREHP  
ALLVEFYAPWCGHCQALAPEYSKAAAVLAAESMVVTLAKVDGPAQRELAEEFGVTEYPTL  
KFFRNGNRTHPEEYTGPRDAEGIAEWLRRRVGPSAMRLEDEAAAQALIGGRDLVIGFFQ  
DLQDEDVATFLALAQDALDMTFGLTDRPRLFQQFGLTKD TVVLFKKFDEGRADFPVDEEL  
GLDLGDL SRFLVTHSMRLVTEFNSQTSAKIFAARILNHL L LFVNQTLAAHRELLAGFGEA  
APFRGQVLFVVVDVAADNEHVLQYFGLKAEAAPTLRLVNLETTKKYAPVDGGPVTAASI  
TAFCHAVLNGQVKPYLLSQEIPPDWDQRPVKTLVGKNFEQVAFDETKNVFVKFYAPWCTH  
CKEMAPAWEALAEKYQDHEDI I I AELDATANELDAFAVHGFP TLKYFPAGPGRKVIEWKS  
TRDLETFSKFLDNGGVLPTTEEPPEEPAAPFPEPPANSTMGSKEEL

>sp|P30101|PDIA3\_HUMAN Protein disulfide-isomerase A3 OS=Homo sapiens GN=PDIA3 PE=1 SV=4

MRLRLALFPGVALLAAARLAAASDVLELTDN FESRISDTGSAGLMLVEFFAPWCGHC  
KRLAPEYEA AATRLKGIVPLAKVDCTANTNTCNKYGVSGYPTLKI FRDGEEAGAYDGPRT  
ADGIVSHLKKQAGPASVPLRTEEEFKKFISDKDASIVGFFD DSFSEAHSEFLKAASNLRD  
NYRFAHTNVE SLVNEYDDN GEG I ILFRPSHLTNKFEDKT VAYTEQKMTSGKIKKFIQENI  
FGICPHMTEDNKDLIQGKDLLIAYYDV DYEKNAKGSNYWRNRVMMVAKKFLDAGHKL NFA  
VASRKTFSHELSDFGLESTAGEIPVVAIRTAKEKFVMQEEFSRDGKALERFLQDYFDGN  
LKRYLKSEPIPESNDGPVKVVVAENFDEIVNNENKDV LIEFYAPWCGHCKNLEPKYKELG  
EKLSKDPNIVIAKMDATANDVSPYEVGRFPTIYFSPANKKL NPKKYEGGRELSDFISYL  
QREATNPPVIQEEKPKKKKKAQEDL

>sp|Q14554|PDIA5\_HUMAN Protein disulfide-isomerase A5 OS=Homo sapiens GN=PDIA5 PE=1 SV=1

MARAGPAWLLLLAIWVLP SWLSSAKVSSLIERISDPKDLKLLRTRNNVLVLYSKSEVAA  
ENHLRLLS TVAQAVKGQGTICWVDCGDAESRKLCKKMKVDLSPKDKKVELFHYQDGAFHT  
EYNRAVTFKSIVAF LKDPKGPPLWEEDPGAKDVVHLDSEKDFRRL LKKEEKPLLIMFYAP  
WCSMCKRMMPHFQKAATQLRGHAVLAGMNVYSSEFENIKEEYSVRGFPTICYFEKGRFLF  
QYDNYGSTAEDIVEWLKNPQPQPQVPETPWADEGGSVYHLTDEDFDQFVKEHSSVLVMF  
HAPWCGHCKMKPEFEKAAEALHGEADSSGVLA AVDATVNKALAERFHI SEFPTLKYFKN  
GEKYAVPVLRTKKKFLEWMQNPEAPPPEPTWEEQQT SVLHLVGDNFRETLKKKKHTLVM  
FYAPWCPHCKKVI PHFTATADAFKDDRKIACAAVDCVKDKNQDLCQQEAVKGYPTFHYYH  
YGKFAEKYDSRTELGFTNYIRALREGDHERLGKKKEEL

>sp|Q8N807|PDILT\_HUMAN Protein disulfide-isomerase-like protein of the testis OS=Homo sapiens GN=PDILT PE=1 SV=2

MDLLWMPLLLVAACVSAVHSSPEVNAGVSSIHITKPVHILEERSLLVLTAGLTQMLNQTRFLMVLFHNPSSKQSRNLAEELGKAVEIMGKGKNGIGFGKVDITIEKELQQEFGITKAPELKLFFEGNRSEPI SCKGVVESAALVVWLRQISQKAFLFNSSEQVAEFVISRPLVIVGFFQDLEEEVAELFYDVIKDFPELTFGVITIGNVIGRFHVTLD SVLVFKKGKIVNRQKLINDSTNKQELNRVIKQHLTDFVIEYNTENKDLISELHIMSHMLLFVSKSSESYGII IQHYKLASKEFQNKILFILVDADEPRNGRVFKYFRVTEVDIPSVQILNLSSDARYKMP SDDITYESLKKFGRSFLSKNATKHQSSEIPKYWDQGLVKQLVGKNFNVVVFDKEKDVFMFYAPWSKKCKMLFP LLEELGRKYQNHSTIIIAKIDVTANDIQLMYLDRYPFFRLFPSPGSQQAVLYKGEHTLKGFSDFLESHIKTIEDEDELLSVEQNEVIEEEVLAAEKEVPMMRKGLPEQQSPELENTKYVSKLEEPAGKKKTSEEVVVVAKPKGPPVQKKKPKVKEEL

>sp|O00764|PDXK\_HUMAN Pyridoxal kinase OS=Homo sapiens GN=PDXK PE=1 SV=1

MEEECRVLSIQSHVIRGYVGNRAATFPLQLVGF EIDAVNSVQFSNHTGYAHWKQVLNSDELQELYEGRLN NMNKYDYVL TG YTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVPLADIITPNQFEAELLSGRKIH SQEEALRVMDMLHSMGPD TVVITSSDLPSPQGSNYLIVLGSQRRRNPA GSVVMERIRMDIRKVD AVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI EDPEIVVQATVL

>sp|Q9GZU2|PEG3\_HUMAN Paternally-expressed gene 3 protein OS=Homo sapiens GN=PEG3 PE=1 SV=1

MLPPKHL SATKPKKSWAPNLYELSDLTKEPDV IIGEGPTDSEFFHQFRNLIYVEFVGPRKTLIKLRNLCLDWLQPETRTKEE I IELLVLEQYLTI IPEKLPWVRAKKPENCEKLVTLL ENYKEMYQPEDDNNSDVTSDDDMTRNRRESSPPHSVHSFSDRDWDRRGRSRDMEPRDRWSHTRNPRSRMPPRDLSLPVVAKTSFEMDREDDRS RAYESRSQDAESYQNVVDLAEDRKP HNTIQDNMENYRKLLSLVQLAEDDGSHMTQGHSSRSKRSAYPSTSRGLKTMPEAKKSTHRRGICEDESSHGVIMEKFIKDVSRSSKSGRARESSDRSQRFRMSDDNWKDISLNKRESV IQQRVYEGNAFRGGFRFNSTLVS RKRVLERKRRYHFDTDGKGS IHDQKGCPRKPFECGSEMRKAMSVSSLSLSSPSFTESQPIDFGAMPYVCECGRSFSVISEFVEHQIMHTRENLY EYGESFIHSVAVSEVQKSQVGGKRFECKDCGETFNKSAALAEHRKIHARGYLVECKNQEEAEFMPSPFTSELQKIY GKDKFYECRVCKETFLHSSALIEHQKIHF GDDKDNEREHERERERERGETFRPSPALNEFQKMYGKEKMYECKVCGETFLHSSSLKEHQKIHTRGNPFENKGVCEETFIPGQSLKRRQKTYNKEKLCDFTDGRDAFMQSSELSEHQKIH SRKNLFEGRGYEKSVIHSGPFTESQKSHTITRPLESDEDEKAFTISSNPYENQKIPTKENVY EAKSYERSV IHSLASVEAQKSHSVAGPSKPKVMAESTIQSFDAINHQRVRAGGNTSEGREYSRSVIHSLVASKPPRSHNGNELVESNEKGESSIYISDLNDKRQKIPARENPCEGGSKNRNYEDSVIQSVFRAKPKQKSVPGEGSGEFKKDGEFSVPSSNVREYQKARAKKKYIEHRSNETSVIHS LPPFGEQTFRPRGMLYECQECGECFAHSSDLTEHQKIHDREKPSGSRNYEWSVIRSLAP TDPQTSYAQEQYAKEQARNKCKDFRQFFATSEDLNTNQKIYDQEKSHGEESQ GENTDGEETHSEETHGQETIEDPVIQGSMDPQKDDPDDKIYECEDCGLGFVDLTDLTDHQVHSRKCLVDSREYTHSVIHTHSISEYQRDYTG EQLYECPKCGESFIHSSFLFEHQRIHEQDQLYS MKGCDDGFIALLPMKPRRNRAAERNPALAGSAIRCLLCGQGFIHSSALNEHMLRHREDDLLEQSQMAE EAIIPGLALTEFQRSQTEERLFECAVCGESFVNPAELADHVTVHKNEPYEYGSSYHTSF LTEPLKGAIPFYECKDCGKSF IHSTVLT KHKELHLEEEEEDEAAAAAAAAAQEVEANVHV

PQVVLRIQGLNVEAAEPEVEAAEPEVEAAEPEVEAAEPNGEAEAGPDGEAAEPIGEAGQPN  
GEAEQPNGDADEPDGAGIEDPEERAAEPEGKAAEPEGDADEPDGVGIEDPEEGEDQEIQV  
EEPYDCHECTETFTSSTAFSEHLKTHASMIIFEPANAFGECSGYIERASTSTGGANQAD  
EKYFKCDVCGQLFNDRLSLARHQNTHTG

>sp|P40425|PBX2\_HUMAN Pre-B-cell leukemia transcription factor 2 OS=Homo sapiens GN=PBX2  
PE=1 SV=2

MDERLLGPPPPGGGRGGLGLVSGEPGGPGEPGGGDPGGGSGGVPGGRGKQDIGDILQQI  
MTITDQSLDEAQAKKHALNCHRMKPALFSVLCEIKEKTGLSIRSSQEEEPVDPQLMRLDN  
MLLAEGVAGPEKGGGSAASGGGVSPDNSIEHSDYRSKLAQIRHIYHSELEKYE  
QACNEFTTHVMNLLREQSRTRPVAPKEMERMVSIHRKFSATQMLKQSTCEAVMILRSR  
FLDARRKRRNFSKQATEVLNEYFYSHLSNPYPSEEAKEELAKKCGITVSQVSNWFGNKRI  
RYKKNIGKFQEEANIYAVKTAVSVTQGGHSRTSSPTPPSSAGSGGSFNLSGSGDMFLGMP  
GLNGDSYSASQVESLRHSMGGPYGDNLGGGQMYSPREMRANGSWQEAVTPSSVTSPTTEG  
PGSVHSDTSN

>sp|Q9BYU1|PBX4\_HUMAN Pre-B-cell leukemia transcription factor 4 OS=Homo sapiens GN=PBX4  
PE=1 SV=2

MAAPRPAPSPAPRRLDTSVLQQIMAITDQSLDEAQARKHALNCHRMKPALFSVLCEI  
KEKTVVSIRGIQDEDPDAQLRLDNMLLAEGVCRPEKRGGAAGAVARAGTATPGGCPNDN  
SIEHSDYRAKLSQIRQIYHSELEKYEQACREFTTHVTNLLQEQSRMRPVSPKEIERMVGA  
IHGKFSATQMLKQSTCEAVMTLRSRLDARRKRRNFSKQATEVLNEYFYSHLNNPYPSE  
EAKEELARKGGLTISQVSNWFGNKRIRYKKNMGKFQEEATIYTGKTAVDTTEVGVPGNHA  
SCLSTPSSGSSGPFPLPSAGDAFLTLRTLASLQPPPGGCLQSQAQGSWQGATPQPATAS  
PAGDPGSINSSTSN

>sp|P05166|PCCB\_HUMAN Propionyl-CoA carboxylase beta chain, mitochondrial OS=Homo sapiens  
GN=PCCB PE=1 SV=3

MAAALRVAAGARLSVLASGLRAAVRSLCSQATSVNERIENKRRTALLGGGQRRIDAQHK  
RGKLTARERISLLLDPGSFVESDMFVEHRCADFGMAADKNKFPGDSVVTGRGRINGRLVY  
VFSQDFTVFGSLSGAHAQKICKIMDQAITVGAPVIGLNDSSGARIQEGVESLAGYADIF  
LRNVTASGVIPQISLIMGPCAGGAVYSPALTDFTFMVKDTSYLFITGPDVVKSVTNEDVT  
QEELGGAKTHTTMSGVAHRAFENDVDALCNLRDFFNYLPLSSQDPAPVRECHDPSDRLVP  
ELDTIVPLESTKAYNMVDIHSVVDEREFFEIMPNYAKNIIVGFARMNGRTVGIVGNQPK  
VASGCLDINSSVKGARFVRFCDAFNIPLITFVDVPGFLPGTAQEYGGIIRHGAKLLYAFA  
EATVPKVTVITRKAYGGAYDMSSKHLCDTNYAWPTAEIIVMGAKGAVEIIFKGHENVE  
AAQAEYIEKFANPFAAVRGFVDDIIQPSSTRARICCDLDVLASKKVQRPWRKHANIPL

>sp|014917|PCDH17\_HUMAN Protocadherin-17 OS=Homo sapiens GN=PCDH17 PE=2 SV=2

MYLSICCCFLLWAPALTLKLNLYSVPEEQAGTVIGNIGRDARLQPLPPAERGGGGRSK  
SGSYRVLENSAPHLLDVDADSGLLYTKQRIDRESLCRHNAKCQLSLEVFANDKEICMIKV  
EIQDINDNAPSFSSDQIEMDISENAAPGTRFPLTSAHDPDAGENGLRTYLLTRDDHGLFG  
LDVKSREGDGTKFPELVIQKALDREQQNHHTLVLTALDGGEPPRSATVQINVKVIDSNDNS  
PVFEAPSYLVELPENAPLGTVVIDLNATDADEGPNGEVLYSFSSYPDRVRELFSIDPKT  
GLIRVKGNDYEENGMLEIDVQARDLGPNPIPAHCKVTVKLIDRNDNAPSIGFVSVRQGA  
LSEAAPPGTVIALVRVTDSDSGKNGQLQCRVLGGGGTGGGGGLGGPGGSVPFKLEENYDN  
FYTVVTDRLDRETQDEYNVTIVARDGGSPPLNSTKSFAIKILDENDNPPRFKGLYVLQ  
VHENNIPGEYLGSVLAQDPDLGQNGTVSYSILPSHIGDVSITYTVSVNPTNGAIYALRSF

NFEQTKAFEFKVLAKDSGAPAHLESNATVRVTVLDVNDNAPVIVLPTLQNDTAEQVPRN  
AGLGYLVSTVRALDSDFGESGRLTYEIVDGNDDHLFEIDPSSGEIRTLHPFWEDVTPVVE  
LVVKVTDHGKPTLSAVAKLIIRSVSGSLPEGVPRVNGEQHHWMSLPLIVTLSTISIIILL  
AAMITIAVKCKRENKEIRTYNCRIA EYSHPQLGGGKGKKKKINKNDIMLVQSEVEERNAM  
NVMNVVSSPSLATSPMYFDYQTRLPLSSPRSEVMYLPASNLTVPQGHAGCHTSFTGQG  
TNASETPATRMSIIQTDNFP AEPNYMGSRRQFVQSSSTFKDPERASLRDSGHGSDQADS  
DQDTNKGSCCDMSVREALKMKTTSTKSQPLEQEPEECVNCTDECRVLGHSDRCWMPQFPA  
ANQAENADYRTNLFVPTVEANVETETETVNTPTGKKTCTFGKDKREHTILIANVKPYLK  
AKRALSPLLQEVPSASSSPTKACIEPCTSTKGSLDGCEAKPGALAEASSQYLPTDSQYLS  
PSKQPRDPPFMASDQMARVFADVHSRASRDSSEMGAVLEQLDHPNRDLGRESVDAEEVVR  
EIDKLLQDCRGNDPVAVRK

>sp|Q8TAB3|PCD19\_HUMAN Protocadherin-19 OS=Homo sapiens GN=PCDH19 PE=1 SV=3

MESLLLPLVLLLLAILWTQAAALINLKYSVEEEQRAGTVIANVAKDAREAGFALDPRQASA  
FRVVSNSAPHLVDINPSSGLLVTKQKIDRDLLCRQSPKCIISLEVMSSSMEICVIKVEIK  
DLNDNAPSFPAAQIELEISEAASPGTRIPLDSAYDPDSGSFGVQTYELTPNELFGLEIKT  
RGDGSRF AELVVEKSLDRETQSHYSFRITALDGGDPPRLGTVGLSIKVTDSNDNNPVFSE  
STYAVSVPENSPPNTPVIRLNASDPDEGTNGQVVYSFYGYVNDRTRELFQIDPHSGLVTV  
TGALDYEEGHVYELDVQAKDLGPNSIPAHCKVTVSVLDTNDNPPVINLLSVNSELVEVSE  
SAPPGYVIALVRVSDRDSGLNGRVQCRLGNVPFRLQEYESFSTILVDGRLDREQHDQYN  
LTIQARDGGVPMQLSASFTVLITDENDNHPHFSKPYQVIVQENNTPGAYLLSVSARDP  
DLGLNGSVSYQIVPSQVRDMPVFTYVSINPNSGDIYALRSFNHEQTKAFEFKVLAKDGGL  
PSLQSNATVRVILLDVNDNTPVITAPPLINGTAEVYIPRNSGIGYLVTVVKAEDYDEGEN  
GRVTYDMTEGDRGF EIDQVNGEVRTTRTFGESSKSSYELIVVAHDHGKTSLSASALVLI  
YLSPALDAQESMGSVNLSLIFIIALGSIAGILFVTMIFVAICKRDNKEIRTYNCSNCLT  
ITCLLGCFIGKQNSKCLHCISVSPIS EEQDKKTEEKVSLRGKRIA EYSYGHQKKSSKKKK  
ISKNDIRLVPRDVEETDKMNVVSCSSLTSSLNYFDYHQQTLP LGCRRSESTFLNVENQNT  
RNTSANHIYHHSFNSQGPQPDLIINGVPLPETENYSFDSNYVNSRAHLIKSSSTFKDLE  
GNSLKDSGHEESDQTDSEHDVQRSLYCDTAVNDVLNTSVTSMGSQMPDHDQNEGFHCREE  
CRILGHSDRCWMPRNPMPIRKSPEHVRNIIALSIEATAADVEAYDDCGPTKRTFATFGK  
DVSDHPAEERPTLKGKRTVDVTICSPKVN SVIREAGNGCEAISPVTSPLHLKSSLPTKPS  
VSYTIALAPPARDLEQYVNNVNGPTRPSEAEPRGADSEKVMHEVSPILKEGRNKESPGV  
KRLKDIVL

>sp|Q9Y5I1|PCDAB\_HUMAN Protocadherin alpha-11 OS=Homo sapiens GN=PCDHA11 PE=2 SV=1

MFQFQRRGLGTPRLQLWLLLLLEFWEVGSGLHYSVSEEAKHGTFVGRI AQDLGLELAELV  
QRLFRVASKTHGDLLEVNLQNGILFVNSRIDREELCGQSAECSIHLEIVDRPLQVFHVN  
VEVKDINDNPPVFSLREQKLLIAESKQSDSRFPLEGASDADIEENALLTYRLSKNEYFSL  
DSPTNGKQIKRLSLILKSLDREKTPELNL LTTATDGGKPELTGTVRLLVQVLDVNDNDP  
EFDKSEYKVSLEMENAAKETLV LKLNATDRDEGVNGEVTYLSMSIKPNGRHLFTLDQNNGE  
VRVNGTLDYEENKFYKIEVQATDKGTPPMAGHCTVWVEILDNDNSPEVAVTSLSLPVRE  
DAQPSTVIALISVSDRDSGVNGQVTCSLTPHVPFKLVSTFKNYSLVLD SALTRENVWAY  
ELVVTARDGGSPSLWATARVSVEADVNDNAPAF AQPEYTVFVKENPPGCHIFTVSARD  
ADAQENALVSYSLVERRLGDRALSSYVSVHAESGKVYALQPLDHEEELLLQFQVSARDAG  
VPPLSSNVT LQVFVLDENDNAPALLATQAGSAGGAVNKL VPRSVGAGHVVAKVRAVDADS  
GYNAWLSYELQPAAGGSRI PFRVGLYTGEISTTRALDEADSPRHRLLVLVKDHGEPALTA



TATVLVSLVESGQAPKASSRTLAGAASPEAALVDNVYLI I AICVVSSLLVLTLLLYTAL  
WWSATPTEGACAPGKPTLVCSRAVGSWSYSQRRQRVCSEEGPPKTDLMAFSPSLPLGLN  
KEEEGERQEPGSNHPGQPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQQWPT  
VSSATPEPEAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIIISIRQ  
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>sp|Q9UN66|PCDB8\_HUMAN Protocadherin beta-8 OS=Homo sapiens GN=PCDHB8 PE=2 SV=3

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SRRGVRVVS RGNKLHLQLNQETADLLLNEKLDREDL CGHTEPCVLR FQV LLESPFEFFQA  
ELQVIDINDHSPVFLDKQMLVKVSESSPPGTAFPLKNAEDLDIGQNNIENYIIISPNSYFR  
VLTRKRS DGRKYPELVLDKALDREEEAELRLTLTALDGGSPPRSGTAQVYIEVVDVNDNA  
PEFEQPFYRVQISEDSPISFLVVKVSATD VDTGVNGEISYSLFQASDEISKTFKVDFTLG  
EIRLKKQLDFEFQSYEVNIEARDAGGFSGKCTVLIQVIDVNDHAPEVTMSAFTSPIPEN  
APETVVALFSVSDLDSENGKISCSIQEDLPFLKSSVGNFYTLLTETPLDRESRAEYNV  
TITVTDLGT PRLTTHLNM TVLVSDVNDNAPAFTQTSYTLFVRENNSPALHIGSVSATDRD  
SGTNAQVTYSLLPPQD PHLPLASLVSINTDNHGLFALRSLDYEALQAFEFRVGASDRGSP  
ALSSEALVRVLVDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQN  
AWLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKQRLVVLVKDNGEPPCSATATLH  
LLLVDGFSQPYP LPLPEAAPAQGQADSLTVYLVVALASVSSLFLFSVLLFVAVLLCRRSRA  
ASVGRCSVPEGPFPGHLVDVRGTGSLSQNYQYEVCLAGGSGTNEFQFLKPVLPNIQGHSF  
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>sp|Q9Y5E1|PCDB9\_HUMAN Protocadherin beta-9 OS=Homo sapiens GN=PCDHB9 PE=2 SV=2

MKTRGFSFPRQRQVLF LFLFWGVSLAGSGFG RYSVTEETEGKS FVVNLAKDLGLAEGELA  
ARGTRVVSDDNKY LLLDSHTGNLLTNEKLDREKLCGPKEPCMLYFQILMDDPFQIYRAE  
LRVRDINDHSPVFRHKEMVLKISENTAEGTAFRLERAQDPDEGHNSIQNYTISSNSFFHI  
KISGSDEGMIYPELVLDKALDREEQEELSLTLTALDGGSPSRSGTSTIRIVVDVNDNAP  
QFAQALYETQAPENSPVGS L I VKVSAGDADSGVNAEVSYSFFDASEDILTTFQINPFSGE  
IFLRELLDYELVNSYKINIQAMDGGGLSARCTVLIKVLDSNDNPPELIISSLSNSVAENS  
PGIVLAVFKIKDRDSENGK TICYVQDNLPFFLKPSVDNFYILMTEGALDRESKAEYNIT  
ITVTDLGT PRLKTEHSITLQVSDVNDNAPAFTQTSYTLFVRENNSPALHIGSVSATDRDS  
GTNAQVTYSLLPPQD PHLPLASLVSINADNHGLFALRSLDYEALQAFDFRVGASDRGSPA  
LSSEALVRVLVDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKHRLVVLVKDNGEPPRSATATLHV  
LLVDGFSQPYP LPLPEAAPAQADLLTVYLVVALASVSSLFLLSVLLFVAVRLCRRSRAA  
SVGRCSVPEGPFPGHLVDVSGTGTLFQSYQYEVCLTGGSETGEFKFLKPITPHLPPHRGG  
KEIEENSTLPNSFGFNY

>sp|Q9Y5F1|PCDBC\_HUMAN Protocadherin beta-12 OS=Homo sapiens GN=PCDHB12 PE=2 SV=1

MENGGAGTLQIRQVLLFFVLLGMSQAGSETGNFLVMEELQSGSFVGNLAKTLGLEVSELS  
SRGARVVSNDNKECLQ LDTNTGDLLLREMLDREELCGSNEPCVLYFQVLMKNPTQFLQIE  
LQVRDINDHSPVFLEKEMLLEIPENSPVGAVFLLES AKDL DVGINAVKSYTINPNSHFHV  
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PETVVMVFRIRD R DSGDNGKMVCSIPEDIPVLKSSVNYYTLETERPLDRESRAEYNIT  
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GTNAQVNYSLPSQDPHLPLASLVSINADNGHLFALRSLDYEALQGFQFRVGATDHGSPA  
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>sp|Q96TA0|PCDBI\_HUMAN Putative protocadherin beta-18 OS=Homo sapiens GN=PCDHB18P PE=5  
SV=2

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SATDRDSGTNAQVTYSLLPPQDPHLPLTSLVSINADNGHLFALRSLDYEALQEFQFRVGA  
ADHGSPALSSEVLVRVLVLDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVD  
GDSGQNAWLSYQLLKATEPGLFGVWAHNGEGRTARLLSERDAAKHRLVVLVKDNGEPPRS  
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>sp|Q9Y5G4|PCDG9\_HUMAN Protocadherin gamma-A9 OS=Homo sapiens GN=PCDHGA9 PE=2 SV=1

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PQGTVILLFNAHDRDSGKNGQVVCISIQENLSFTLENSEEDYYRLLTAQILDREKASEYNI  
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>sp|O60330|PCDGC\_HUMAN Protocadherin gamma-A12 OS=Homo sapiens GN=PCDHGA12 PE=2 SV=1

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ISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVVLTSLASSVPENS  
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TVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIPENNPRGVSLVSVTAHDPD  
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PLSSNVSLSLFVLDQNDNAPEILYPALPTDGGSTGVELAPRSAEPGYLVTKVVAVDRDSGQ  
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TVAVADSIPQVLADLSLESPANSETSDLTYLVVAVAAVSCVFLAFVILLALRLRRWH  
KSRLQASGGGLTGAPASHFVGVDGVQAFLQTYSHVSLTTDSRKSHLIFPQPNYADMLV  
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>sp|Q9Y5G2|PCDGE\_HUMAN Protocadherin gamma-B2 OS=Homo sapiens GN=PCDHGB2 PE=2 SV=1

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ITTKDDLDFEIASSTYLSIEAKDPGDAAHCSIQVEILDDNDCAPEVIVTSVSTPLPEDS  
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SDAWDCFQGPLSSKPGPVLPNYSEGTLPYSYNLCVASQSAKTEFNFLNITPELVPAQDL  
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>sp|Q9Y5G1|PCDGF\_HUMAN Protocadherin gamma-B3 OS=Homo sapiens GN=PCDHGB3 PE=1 SV=3

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VLIQDINDNPPTFSQNITELEISELALTGATFALESAQDPDVGVNSLQYYLSPDPHFSL  
IQKENLDGSRYPELVKAPLDREEQPHHHLVLTAVDGGEPSRSCTTQIRVIVADANDNPP  
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TITATDKGNPPLSSSKTITLHILDVNDNVPVFHQASYTVHVAENNPPGASIAHVRASDPD  
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TLSANVSLRVLVDDRNDNAPLVLYPALGPEGSALFDMVPRSAEPGYLVTKVVAVDADSGY  
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LCDEASWFESNDNPENPSNSGNLQKQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQF  
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>sp|Q9Y5F8|PCDGJ\_HUMAN Protocadherin gamma-B7 OS=Homo sapiens GN=PCDHGB7 PE=2 SV=1

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VVIEDVNDHAPQFRKDEINLEISESVSLGMGTILESAEDPDISMNSLSKYQLSPNEYFSL  
VEKDNPDGGKYPELVLQKTLDRQSAHHLVLTALDGGDPPRSGTAQIRILVIDANDNPP  
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TIAATDRGKPLSSSKTITLHITDVNDNAPVFGQSAYLVHVPENNQPGASIAQVSASDPD  
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ALSANVSLRVLVGRDNDNAPRVLYPALGPDGSALFDTVPRAAQPGYLTKVVAVDADSGH  
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HLVFADSLQEVLPDFSDHPTSDSQAEMQFYLVVALALISVLFLLAVILAIALRLRQSFS  
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>sp|Q9Y5F6|PCDGM\_HUMAN Protocadherin gamma-C5 OS=Homo sapiens GN=PCDHGC5 PE=2 SV=1

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TFQSSVLRVGIPENAPIGTLRLNATDPDEGTNGQLDYSGDHTSEAVRNLFGLDPSSG  
AIHVLGPIDFEESRFYIEHARARDQGQPAMEGHCVIQVDVGDVNDNAPEVLLASLANPVL  
ESTPGTVVGLFNVRDRDSDGRNGEVSLDISPDLPFQIKPSENHYSLLTSQPLDREATSHY  
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SPPLHANTSLHVFVLDENDNAPAVLHPRPDWEHSAPQRLPRSAPPGSLVTKVTAVDADAG  
HNAWLSYSLLPQSTAPGLFLVSTHTGEVRTARALLEDDSDTQQVVVLVRDNGDPSLSSTA  
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ASDGSDFTLRPLSVQQPTALALEPDAIRSRNTRLRERSQQAPPNTDWRFSQAQRPGTSG  
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>sp|Q08174|PCDH1\_HUMAN Protocadherin-1 OS=Homo sapiens GN=PCDH1 PE=1 SV=2

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RECQNQLPGDPCILEFEVSIITDLVQNGSPRLLEGQIEVQDINDNTPNFASPVITLAIPEN  
TNIGSLFPIPLASDRDAGPNGVASIELQAGPEAQELFGLQVAEDQEEKQPQLIVMGNLDR  
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DRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVAEETAVALVQVS  
DRDEGENAAVTCVAGDVFPQLRQASETGSDSKKKYFLQTTTPLDYEKVKDYTTIEIVAVD

SGNPPLSSTNSLVQVVDVNDNAPVFTQSVTEVAFPENNKPGEVIAEITASDADSGSNAE  
LVYSLEPEPAAKGLFTISPETGEIQVKTSLDREQRESYELKVVAADRGSPLQGTATVLV  
NVLDCNDNDPKFMLSGYNFSVMENMPALSPVGMVTVIDGDKGENAQVQLSVEQDNGDFVI  
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ERRHHGLHRLVVKVSDRGKPPRYGTALVHLVYNETLANRTLLETLLGHSLDTPLDIDIAG  
DPEYERSKQRGNILFGVVAGVVAALLIALAVLVRYCRQREAKSGYQAGKKETKDLYAPK  
PSGKASKGNKSKGKSKSPKPKPVEDEDEAGLQKSLKFNLMSDAPGDSPRIHLPLNYPP  
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>sp|O60245|PCDH7\_HUMAN Protocadherin-7 OS=Homo sapiens GN=PCDH7 PE=1 SV=2

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QSWVDLFEGQVIVLDINDNTPTFPSPVLTLTVEENRPVGTLYLLPTATDRDFGRNGIER  
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SSVFELQVADTPDGEKQQLIVKGALDREQRDSYELTLVRDGGDPPRSSQAILRVLITD  
VNDNSPRFEKSVYEADLAENSAPGTPILQLRAADLDVGVNGQIEYVFGAATESVRLLRL  
DETSGLSVLHRIDREEVNQLRFTVMARDRGQPPKTDKATVVLNIKDENDNVPSIEIRKI  
GRIPLKDGVANVAEDVLVDTPIALVQVSDRDQGENGVVCTTVVGDVPFQLKPASDTEGDQ  
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VTVMADADKGRNAEMSLYIEENNNIFSIENTGTIYSTMSFDREHQTITYFRVKAVDGGDP  
PRSATATVSLFVMDENDNAPTITLTKNISYTLLPPSSNVRTVVATVLATDSDDGINADLN  
YSIVGGNPFKLFEIDPTSGVSVLQKLTQKHVGLHRLVQVNDSGQPSQSTTTLVHVFN  
ESVSNATAIDSQIARSLHIPLTQDIAGDPSYEISKQRLSIVIGVAGIMTVILILIVVM  
ARYCRSKNKNNGYEAGKKDHEDFFTPQQHDKSKPKKDKKNKSKQPLYSSIVTVEASKPN  
GQRYDSVNEKLSDSPSMGRYRSVNGGPGSPDLARHYKSSPLPTVQLHPQSPTAGKKHQA  
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>sp|Q96NT5|PCFT\_HUMAN Proton-coupled folate transporter OS=Homo sapiens GN=SLC46A1 PE=1  
SV=1

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SLGLLLQALVSFVQQLQHVGYFVLGRILCALLGDFGGLLAASFASVADVSSRSRTFR  
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SKLIGYGSAAQHLPLYTSLALALLQYCLADAWVAEIGLAFNILGMVVFATITPLMFT  
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>sp|Q15113|PCOC1\_HUMAN Procollagen C-endopeptidase enhancer 1 OS=Homo sapiens GN=PCOLCE  
PE=1 SV=2

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VAPGNQVTLRMTTDEGTGGRGFLWYSGRATSGTEHQFCGGRLEKAQGTLTTPNWPESDY

PPGISCSWHIIAPPDQVIALTFEKFDFLEPDYCRYDSVSVFNGAVSDDSRRLGKFCGDAV  
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QPPEKTEESPSAPDAPTCPKQCRRTGTLQSNFCASSLVVTATVKSMVREPGEGLAVTVSL  
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>sp|Q9BQ51|PD1L2\_HUMAN Programmed cell death 1 ligand 2 OS=Homo sapiens GN=PDCD1LG2 PE=1 SV=2

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ASYRKINTHILKVPETDEVELTCQATGYPLAEVSWPNVSVPANTSHSRTPEGLYQVTSVL  
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>sp|Q16342|PDCD2\_HUMAN Programmed cell death protein 2 OS=Homo sapiens GN=PDCD2 PE=1 SV=2

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GESVCLQLKSGAHLRCVCGCLGPKTCSRCHKAYYCSKEHQTLDWRLGHKQACAQPDHLDH  
IIPDHNFLFPEFEIVIETEDEIMPEVVEKEDYSEIIGSMGEALEEELDSMAKHESREDKI  
FQKFKTQIALEPEQILRYGRGIAPIWISGENIPQEKDIPDCPCGAKRILEFQVMPQLLNY  
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>sp|Q8N8D1|PDCD7\_HUMAN Programmed cell death protein 7 OS=Homo sapiens GN=PDCD7 PE=1 SV=1

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RWPEAPPPPADVLGDAALQRLRDRQWLEAVFGTPRRAGCPVPQRTHAGPSLGEVRARLLR  
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RVRRRLRLRERAREAREAEAAARAVEREQEIDRWRVKCVQEVEEKKREQLKAAADG  
VLSEVRKKQADTKRMVDILRALEKLRLKLRKEAAARKGVCPPASADETFTHHLQRLRLIK  
KRSELYEAERALRVMLEGEQEEERKRELEKKQRKEKEKILLQKREIESKLFGDPDEFPL  
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>sp|Q8NB37|PDDC1\_HUMAN Parkinson disease 7 domain-containing protein 1 OS=Homo sapiens GN=PDDC1 PE=1 SV=1

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ICAVGHGVAALCCATNEDRSWVFDYSYSLTGPSVCELVRAPGFARLPLVVEDFVKDSGACF  
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>sp|Q14432|PDE3A\_HUMAN cGMP-inhibited 3',5'-cyclic phosphodiesterase A OS=Homo sapiens GN=PDE3A PE=1 SV=3

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IPKRLRRSLPPGLLRRVSSTWTTTTSATGLPTLEPAPVRRDRSTSIKLQEAPSSSPDSWN  
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KISAVQFPESADTTAKQSLGSHRALTYTQSAPDLSPQILTPVICSSCRPYSQGNPADE  
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PETMMFLDKPILAPEPLVMDNLDSIMEQLNTWNFPIDFLVENIGRKCGRILSQVSYRLFE  
DMGLFEAFKIPIREFMNYFHALEIGYRDIPYHNRIHATDVLHAVWYLTQPIPGSTVIN  
DHGSTSDSDSGFTHGMGYVFSKTYNVTDDKYGCLSGNIPALELMALYVAAAMHDYDH  
PGRTNAFLVATSAPQAVLYNDRSVLENHHAAAAWNLFMSRPEYNFLINLDHVEFKHFRFL  
VIEAILATDLKKHFDVFAKFNKGVNDDVGIDWTNENDRLLVCQMCIKLADINGPAKCKEL  
HLQWTDGIVNEFYEQGDEEASGLPISPFMDRSAPQLANLQESFISHIVGPLCNSYDSAG  
LMPGKWVEDSDESGTDDPEEEEEAPAPNEEETCENNESPKKTKRRKIYCQITQHLL  
QNHKMWKKVIEEEQRLAGIENQSLDQTPQSHSSEIQAIKEEEEEKGKPRGEEIPTQKPD  
Q

>sp|Q13370|PDE3B\_HUMAN cGMP-inhibited 3',5'-cyclic phosphodiesterase B OS=Homo sapiens  
GN=PDE3B PE=1 SV=2

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFHLCRFCNVELR  
PPPASPQQPRRCSPPFCRARLSGALAAFLVALLLGAEPESWAAGAALRTLLSVCSHLS  
PLFSIACAFFFLTCTFLTRTKRGPGRSCGSWLLALPACCYLGDFLVQWWSWPWGDGD  
AGSAAPHTPEAAAGRLLLVLSCVGLLLTLAHLPLRLRHCVLVLLLASFVWVVSFTSLGSL  
PSALRPLLSGLVGGAGCLLALGLDHFFQIREAPLHRLSSAAEEKVPVIRPRRRSSCVSL  
GETAASYYGSKIFRRPSLPCISREQMILWDWLKQWYKPHYQNSGGNGVDLSVLNEAR  
NMVSDLLTDPSPPPQVISSLRSSLMGAFSGSCRPKINPLTPFGFYPCSEIEDPAEKG  
DRKLNKGLNRNSLTPQLRSSGTSGLLPVEQSSRWDRNNGKRPHQEFGISSQGCYLNGP  
FNSNLLTIPKQRSSSVSLTHHVLRRAGVLSLSPVNSSNHGPVSTGSLTNRSPIEFPDT  
ADFLNKPSVILQRSLGNAPNTPDFYQQLRNSDSNLCNSCGHQMVKYVSTSESDGTCCSG  
KSGEENIFSKESFKLMETQEEEETEKKDSRKLFEQGDKWLTEEAQSEQQTNIEQEVSLD  
LILVEEYDSLIEKMSNWNFPFELVEKMGEKSGRILSQVMYTLFQDTGLLEIFKIPTQQF  
MNYFRALENGYRDIPYHNRIHATDVLHAVWYLTTRPVPGQQIHNGCGTGNETDSDGRIN  
HGRIAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDHPGRTNAFLVATNAPQ  
AVLYNDRSVLENHHAASAWNLYLSRPEYNFLHLDHVEFKRFRFLVIEAILATDLKKHFD  
FLAEFNAKANDVNSNGIEWSNENDRLLVCQVCIKLADINGPAKVRDLHLKWTEGIVNEFY  
EQGDEEANLGLPISPFMDRSSQLAKLQESFITHIVGPLCNSYDAAGLLPGQWLEAEEDN  
DTESGDDEDEGEELDEDEEMENNLNPKPRRKSRRRIFCQLMHHLTENHKIWKEIVEEEE  
KCKADGNKLQVENSLLPQADEIQVIEEADEEE

>sp|O00151|PDLI1\_HUMAN PDZ and LIM domain protein 1 OS=Homo sapiens GN=PDLIM1 PE=1 SV=4

MTTQQIDLQGPWGFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSN  
MTHLEAQNRKIGCTDNLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEV LHIGSAH  
NRSAMPFTASPASSTARVITNQYNNPAGLYSSENISNFNNALESKTAASGVEANSRPLD  
HAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILESEEKGDPNKPSGFRSV  
KAPVTKVAASIGNAQKLPMDCKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF  
VEDQIYCEKHARERTPPEGYEVTVTFPK

>sp|Q9P0J1|PDP1\_HUMAN [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1,  
mitochondrial OS=Homo sapiens GN=PDP1 PE=1 SV=3

MPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYIPQSRLRYTPHPAYATFCRPKE

NWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKNVSSILGFDSNQLPAN  
APIEDRRSAATCLQTRGMLLGVDGHAGCACSQAVSERLFYYIAVSLLPHETLLEIENAV  
ESGRALLPILQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESTDIDVKEALINAF  
KRLDNDISLEAQVGPNSFLNYLVLRVAFSGATACVAHVDGVDLHVANTGDSRAMLGVQE  
EDGWSAVTLSNDHNAQNERELERLKLHPKSEAKSVVKQDRLLGLLMPFRAFQDVKFKW  
SIDLQKRVI ESGPDQLNDNEYTKFIPPNYHTPPYLTAEPVITYHRLRPQDKFLVLATDGL  
WETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAAT  
HLIRHAVGNNEFGTVDHERLSKMLSPEELARMYRDDITIIVVQFNSHVVGAYQNQE

>sp|Q9P2J9|PDP2\_HUMAN [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 2,  
mitochondrial OS=Homo sapiens GN=PDP2 PE=2 SV=2

MSSTVSYWILNSTRNSIATLQGGRRLYSRYVSNRNKLKWLFSRVPTLNSSPCGGFTLC  
KAYRHTSTEEDDFHLQLSPEQINEVLRAGETTHKILDLESRVPSVLRFSNQLAANSPV  
EDRRGVASCLQTNGLMFGIFDGHGGHACAQAVSERLFYYVAVSLMSHQTLHEMEGAMESM  
KPLLPILHWLKHGDSIYKDVTSVHLDHLRVYWQELDLHMEMGLSIEEALMYSFQRLDS  
DISLEIQAPLEDEVTRNLSLQVAFSGATACMAHVDGIHLHVANAGDCRAILGVQEDNGMW  
SCLPLTRDHNAWNQAELSRLKREHPESDRTIIMEDRLLGVLIPCRAFQDVQLKWSKELQ  
RSILERGENTEALNIYQFTPPHYTTPPYLTAEPVITYHRLRPQDKFLVLASDGLWDMLSN  
EDVVRLLVVGHLAEADWHKTDLAQRANLGLMQSLLQKASGLHEADQNAATRLIRHAIG  
NNEYGEMEAERLAAMLTPEDLARMYRDDITVTVVYFNSESIGAYYKGG

>sp|Q6P996|PDXD1\_HUMAN Pyridoxal-dependent decarboxylase domain-containing protein 1  
OS=Homo sapiens GN=PDXD1 PE=1 SV=2

MDASLEKIADPTLAEMGKNLKEAVKMLEDQRRTEEENGKKLISGDIPGLQGSGQDMVS  
ILQLVQNLMHGDEDEEPQSPRIQNIQEQQHMALLGHSLGAYISTLDKEKLRKLTTRILSD  
TTLWLCRIFRYENGCAIFYHEEEREGLAKICRLAIHSRYEDFVVDGFNVLYNKKPVIYLSA  
AARPLGQYLCNLGLPFPCLCRVPCNTVFGSQHQMDVAFLEKLIKDDIERGRLPLLVA  
NAGTAAVGHTDKIGRLKELCEQYGIWLHVEGVNATLALGYVSSSVLAAKCDSTMTTPG  
PWLGLPAVPAVTLYKHDDPALTLVAGLTSNKPTDKLRALPLWLSLQYLGDLGDFVERIKHA  
CQLSQRQLQESLKKVNYIKILVEDELSPPVVVFRFFQELPGSDPVFKAVPVPNMTPSGVGR  
ERHSCDALNRWLGEQLKQLVPASGLTVMDEAGTCLRFSPMLTAAVLGTREGDQDQLVA  
CIESKLPVLCCTLQREEFKQEVEATAGLLYVDDPNWSGIGVVRYEHANDDKSSLKSDPE  
GENIHAGLLKKLNEESDLTFKIGPEYKSMKSCLYVGMAVDNDAELVETIAATAREIE  
ENSRLLENMTEVVRKGIQEAQVELQKASEERLLEEGVLRQIPVVGSVLNWFSVPVQALQKG  
RTFNLTAGSLESTEPYVYKAQGAGVTLPPTPSGSRTKQRLPGQKPKRSLRGSDALSET  
SSVSHIEDLEKVERLSSGPEQITLEASSTEGHPGAPSPQHTDQTEAFQKGVPHPEDDHSQ  
VEGPESLR

>sp|Q5EBL8|PDZ11\_HUMAN PDZ domain-containing protein 11 OS=Homo sapiens GN=PDZD11 PE=1  
SV=2

MDSRIPYDDYPVVFLPAYENPPAWIPPHERVHHPDYNNELTQFLPRTITLKKPPGAQLGF  
NIRGGKASQLGIFISKVIPDSDAHRAQLQEGDQVLAVNDVDFQDIEHSCAVEILKTAREI  
SMRVRFPPYNYHRQKERTVH

>sp|Q8NEN9|PDZD8\_HUMAN PDZ domain-containing protein 8 OS=Homo sapiens GN=PDZD8 PE=1 SV=1

MGLLLMILASAVLGSLTLLAQFFLLYRRQPEPPADEAARAGEGFRYIKVPVGLLLREYL  
YGGGRDEEPSGAAPGATPTAAPETPAPPTRETCYFLNATILFLFRELRDTALTRRWVT  
KKIKVEFEELLQTKTAGRLLEGLSLRDVFLGETVPFIKTIIRLVPRVPSATGEPDGPEGE



ALPAACPEELAFEAEVEYNGGFHLAIDVDLVFGKSAYLFVKLSRVVGRRLRVFTRVPFTH  
WFFSFVEDPLIDFEVRSQFEGRPMPQLTSIIVNQLKKIIKRKHTLPNYKIRFKPFFPYQT  
LQGFEEDDEEHIHIQQWALTEGRLKVTLLCESTRLLIFGSYDREANVHCTLELSSSVWEEKQ  
RSSIKTVELIKGNLQSVGLTLRLVQSTDGYAGHVIIETVAPNSPAAIADLQRGDRLIAIG  
GVKITSTLQVLKLIKQAGDRVLVYYERPVGQSNQGAVLQDNFGQLEENFLSSSCQSGYEE  
EAAGLTVDTESRELDSEFEDLASDVRAQNEFKDEAQSLSHSPKRVPTLSIKPLGAISPV  
LNRKLAVGSHPLPPKIQSKDGNKPPPLKTSEITDPAQVSKPTQGSFAKPPVPPRPQAKVP  
LPSADAPNQAEPDVLVEKPEKVVPPPLVDKSAEKQAKNVDAIDDAAPKQFLAKQEVAKD  
VTSETSCPTKDSSDDRQTWESSEILYRNKLGKWTTRTRASCLFDIEACHRYLNIALWCRDP  
FKLGGLICLGHVSLKLEDVALGCLATSNTEYLSKLRLEAPSPKAIVTRTALRNLSMQKGF  
NDKFCYGDITIHFKYLKEGESDHHVVTNVEKEKEPHLVEEVSVLPKEEQFVGMGLTENK  
HSFQDTQFQNPTWCDYCKKKVWTKAASQCMFCAYVCHKKCQEKCLAETSVCGATDRRIDR  
TLKNLRLEGQETLLGLPPRVDAEASKSVNKTGLTRHIINTSSRLLNLRQVSKTRLSEPG  
TDLVEPSPKHTPNTSDNEGSDTEVCGPNPSKRGNSTGIKLVKEGGLDDSVFIKVEIG  
RDLYRGLPTEERIQLKLEFMDKLQNEIDQLEHNNSLVREEKETTDTRKKSLLSALAKS  
GERLQALTLLMIHYRAGIEDIETLESLSLDQHSKKISKYTDDTEEDLDNEISQLIDSQPF  
SSISDDLFGPSES

>sp|Q15121|PEA15\_HUMAN Astrocytic phosphoprotein PEA-15 OS=Homo sapiens GN=PEA15 PE=1 SV=2

MAEYGTLLQDLTNNITLEDLEQLKSACKEDIPSEKSEEITGSAWFSFLESHNKLDKDNL  
SYIEHIFEISRRPDLLTMVVDYRTRVLKISEEDELDTKLTRIPSAKKYKDIIRQPSEEEI  
IKLAPPPKKA

>sp|Q13951|PEBB\_HUMAN Core-binding factor subunit beta OS=Homo sapiens GN=CBFB PE=1 SV=2

MPRVVPDQRSKFENEFFRKLRECEIKYTGFRDRPHEERQARFQACRDRSEIAFVAT  
GTNLSLQFFPASWQGEQRQTPSREYVDLEREAGKVYLKAPMILNGVCVIWKGWIDLQRLD  
GMGCLEFDEERAQEDALAQAFEEARRRTREFEDRDRSHREEMEVRSQLLAVTGKKT  
RP

>sp|P30086|PEBP1\_HUMAN Phosphatidylethanolamine-binding protein 1 OS=Homo sapiens GN=PEBP1 PE=1 SV=3

MPVDLSKWSGPLSLQEVDQPHPLHVTYAGAAVDELGKVLTPQVKNRPTSISWDGLDS  
GKLYTLVLTDPDAPSRKDPKYREWHHFLVVMKGNDISSGTVLSDYVGSPPKGTGLHRY  
VWLVEQDRPLKCEPILSNRSGDHRGKFKVASFRKKYELRAPVAGTCYQAEWDDYVPKL  
YEQLSGK

>sp|Q96HM7|PED1B\_HUMAN PC-esterase domain-containing protein 1B OS=Homo sapiens GN=PCED1B PE=1 SV=1

MILLRASEVRQLLHNKFVVILGDSVHRAVYKDLVLLLQKDRLLTPGQLRARGELNFEQDE  
LVDGGQRGHMHNGLNRYREVREFRSDHHLVRFYFLTRVYSDYLQTIKELQSGEHAPDLVI  
MNSCLWDISRYGPNWSRYLENLENLFQCLGQVLPESCLLVWNTAMPVGEEVTGGFLPPK  
LRRQKATFLKNEVKANFHSATEARKHNFVDLHLHFHFRHARENLHWDGVHWNHGRVHRCL  
SQLLLAHVADAWGVELPHRHPVGEWIKKKKPGPRVEGPPQANRNHPALPLSPPLPSPTYR  
PLLGFPPQRLPLLPLSPQPPPIILHHQGMPPFPQGGPDACFSSDHTFQSDQFYCHSDVP  
SSAHAGFFVEDNFMVGPQLPMPFFPTPRYQRPAPVVHRGFGRYRPRGPYTPWGQRPRPSK  
RRAPANPEPRPQ

>sp|P36955|PEDF\_HUMAN Pigment epithelium-derived factor OS=Homo sapiens GN=SERPINF1 PE=1 SV=4

MQALVLLLCIGALLGHSSCQNPASPPEEGSPDPDSTGALVEEEDPFFKVPVNKLAAAVSN  
FGYDLYRVSSTPTTNVLLSPLSVATALSALSGLAEQRTESI IHRALYYDLISSPDIHG  
TYKELLDVTAPQKNLKSASRIVFEKKLRIKSSFVAPLEKSYGTRPRVLTGNPRDLQEI  
NNWVQAQMKGKLARSTKEIPDEISILLGVAHFKGQWVTKFDSRKTSLDFYLDEERTVR  
VPMMSDPKAVLRYGLSDLSCKIAQLPLTGSMIIFFLPLKVTQNLTLIEESLTSEFIHD  
IDRELKTVQAVLTPKLLSYEGEVTKSLQEMKLQSLFDSPDFSKITGKPIKLTQVEHRA  
GFEWNEDGAGTTPSPGLQPAHLTFPLDYHLNQPFIFVLRD TDGALLFIGKILDPRGP

>sp|Q9UBV8|PEF1\_HUMAN Peflin OS=Homo sapiens GN=PEF1 PE=1 SV=1

MASYPYRQGCPGAAGQAPGAPPGSYYPGPPNSGGQYGSGLPPGGGYGGPAPGGPYGPPAG  
GGPYGHPNPGMFPSTPGGPGYGAAPGGPYGQPPSSYGAQQPGLYGQGAPPNVDPEAY  
SWFQSVSDSHSGYISMKELKQALVNCNWSSFNDETCLMMINMFDKTKSGRIDVYGFSALW  
KFIQQWKNLFQQYDRDRSGSISYTELQQALSQMGYNLSPQFTQLLVSRYCPRSANPAMQL  
DRFIQVCTQLQVLTEAFREKDTAVQGNIRLSFEDFVTMTASRML

>sp|075381|PEX14\_HUMAN Peroxisomal membrane protein PEX14 OS=Homo sapiens GN=PEX14 PE=1 SV=1

MASSEQAQPSQPSSTPGSENVLPREPLIATAVKFLQNSRVRQSPLATRRRAFLKKKGLTD  
EEIDMAFQQSGTAADEPSSLGPATQVVPVQPPHLISQPYPAGSRWRDYGALAIIMAGIA  
FGFHLYKKYLLPLILGGREDRKQLERMEAGLSELGSGVAQTVTQLQTTLASVQELLIQQ  
QQKIQELAHELAAAKATTSTNWILESQNINELKSEINSLKGLLLNRRQFPSPSAPKIPS  
WQIPVKSPSPSPA AVNNHSSDISPVSNESTSSSPGKEGHSPEGSTVTYHLLGPQEEGE  
GVVDVKQGVRMEVQGEEEKREDKEDEEEDDDVSHVDEEDCLGVQREDRRGGDGQINEQ  
VEKLRRPEGASNESERD

>sp|Q9Y5Y5|PEX16\_HUMAN Peroxisomal membrane protein PEX16 OS=Homo sapiens GN=PEX16 PE=1 SV=2

MEKLRLGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHSELVYSASNLLVLL  
NDGILRKELRKKLPVSLSQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVI ALVQLAK  
AVLRMLLLLWFKAGLQTSPPIVPLDRETQAQPPDGDHSPGNHEQSYVGKRSNRVRTLQN  
TPSLHSRHWGAPQQREGRQQQHHEELSATPTPLGLQETIAEFLYIARPLLHLLSLGLWGQ  
RSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRRTILLLYLLRSPFYDRFSEARIL  
FLLQLLADHVPGLVTRPLMDYLPWQKIYFYSWG

>sp|Q7Z412|PEX26\_HUMAN Peroxisome assembly protein 26 OS=Homo sapiens GN=PEX26 PE=1 SV=2

MKSDSSTSAAPLRGLGGPLRSSEPVRAPPARAPVDLLEEAADLLVHLD FRAALET CER  
AWQSLANHAVAEEPAGTSLEVKCSLCVVG IQALAEMDRWQEVLSWVLQYYQVPEKLPPKV  
LELCILLYSKMQEPGAVLDVVGAWLQDPANQNLPEYGALAEFHVQRVLLPLGCLSEAEEL  
VVGSAAFGEERRLDVLQAIHTARQQQKQEHSGSEEAQKPNLEGSVSHKFLSLPMLVRQLW  
DSAVSHFFSLPFKKSLAALILCLLVVRFPASPSSLHFLYKLAQLFRWIRKA AFSRLYQ  
LRIRD

>sp|P16112|PGCA\_HUMAN AggreCAN core protein OS=Homo sapiens GN=ACAN PE=1 SV=2

MTLLWVFTLRVITA AVTVETSDHDNSLSVSIQPSPLRVLLGTSLTIPCYFIDPMHPV  
TTAPSTAPLAPRIKWSRVSKKEVVLLVATEGRVRVNSAYQDKVSLPNYP AIPSDATLEV  
QSLRNSDSGVYRCEVMHGIEDSEATLEV VVKGIVFHYRAISTRYTLD FRAQRAQLQNSA  
IIATPEQLQAAYEDGFHQCDAGWLADQTVRYPIHTPREGCYGDKDEFPGVRTYGI RDTNE

TYDVYCF AEEMEGEVFYATSPEKFTFQEAANECRRLGARLATTGHVYLAWQAGMDMCSAG  
WLADRSVRYPISKARPNCGGNLLGVRTVYVHANQTGYDPDSSRYDAICYTGEDFVDIPEN  
FFGVGGEEDITVQTVTWPMELPLPRNITEGEARGSVILTVKPIFEVSPSPLEPEEPFTF  
APEIGATAFAEVENETGEATRPWGFPPTGLGPATAFTSEDLVVQVTAVPGQPHLPGGVVF  
HYRPGPTRYSLTFEEAQQACPGTGAVIASPEQLQAAYEAGYEQCDAGWLRDQTVRYP IVS  
PRTPCVGDKDSSPGVRTYGV RPSTETYDVYCFVDRLEGEVFFATRLEQFTFQEALEFCES  
HNATATTGQLYAAWSRGLDKCYAGWLADGSLRYP IVTPRPACGGDKPGVRTVYLYPNQTG  
LPDPLSRHHAFCFRGISAVPSPGEEEGGTP TSPSGVEEWIVTQVVPGVAAVPVEEETTAV  
PSGETTAILEFTTEPENQTEWEPAYTPVGTSP LPGA ILPTWPPTGAETEEESTEGPSATEVP  
SASEEPSPSEVPFPSEEPSSEEPF SVRPFPSVELFPSEEPFPSKEPSPSEEPSASEEP  
YTPSPPEPSWTELPSSGEESGAPDVSGDFTGSGDVSGHLDFSGQLSGDRASGLPSGDLDS  
SGLTSTVSGSLTVESGLPSGDEERIEWPSTPTVGELPSGA EILEGSASGVGDL SGLPSGE  
VLETSASGVGDL SGLPSGEVLETTAPGVEDISGLPSGEVLETTAPGVEDISGLPSGEVLE  
TTAPGVEDISGLPSGEVLETTAPGVEDISGLPSGEVLETTAPGVEDISGLPSGEVLETA A  
PGVEDISGLPSGEVLETAAPGVEDISGLPSGEVLETAAPGVEDISGLPSGEVLETAAPGV  
EDISGLPSGEVLETAAPGVEDISGLPSGEVLETAAPGVEDISGLPSGEVLETAAPGVEDI  
SGLPSGEVLETAAPGVEDISGLPSGEVLETAAPGVEDISGLPSGEVLETAAPGVEDISGL  
PSGEVLETAAPGVEDISGLPSGEVLETTAPGV E EISGLPSGEVLETTAPGVDEISGLPSG  
EVLETTAPGV E EISGLPSGEVLETSTSAVGDL SGLPSGGEVLEISVSGVEDISGLPSGEV  
VETSASGIEDVSELPSGEGLETSASGVEDLSRLPSGEEVLEISASGFGDL SGVPSGGEGL  
ETSASEVGTDL SGLPSGRELETSASGAEDLSGLPSGKEDLVGSASGDL DLGKLPSGTLG  
SGQAPETSGLP SGFSGEYS GVDL GSGPPSGLPDFSGLPSGFPTVSLVDSTLVEVVTASTA  
SELEGRGTIGISGAGEISGLPSSELDISGRASGLPSGTELSGQASGSPDVSGEIPGLFGV  
SGQPSGFPDTSGETSGVTELSGLSSGQPGVSGEASGVLYGTSQPFGITDL SGETSGVPDL  
SGQPSGLPGFSGATSGVPDLVSGTTS GSGESSGITFVDTSLVEVAPTTFKEEEGLSGVEL  
SGLPSGEADLSGKSGMVDVSGQFSGTV DSSGFTSQTPEFSGLPSGIAEVSGESSRAEIGS  
SLPSGAYYGSGTPSSFP TVSLVDRTLVESVTQAPTAQEAGEGPSGILELSGAHSGAPDMS  
GEHSGFLDLSGLQSLIEPSGEPGP TPYFSGDFASTTNVSGESSVAMGTSGEASGLPEVT  
LITSEFVEGVTEPTISQELGQRPPVTHTPQLFESSGKVSTAGDISGATPVLP GSGVEVSS  
VPESSETSAYPEAGFGASAAPEASREDSGSPDLSETTS AFHEANLERS SGLGVSGSTLT  
FQGEASAAPEVSGESTTTS DVGTEAPGLPSATPTASGDRTEISGDL SGHTSQLGVVIST  
SIPESWTQQTQRPAETHLEIESSLLYSGEETHTVETATSPTDASIPASPEWKRESEST  
AAAPARSCAE EPCGAGTCKETEGHVICLPPGYTGEHCNIDQEVCEE GWNKYQGH CYRHF  
PDRETWVDAERRCREQQSHLSSIVTPEEQEFVN NNAQDYQWIGLNDRTIEGDFRWS DGHP  
MQFENWRPNQPDNFFAAGEDCVMIWHEKGEWNDVPCNYHLPFTCKKGTVACGEPPVVEH  
ARTFGQKKDRYEINSLVRYQCTEGFVQRHMP TIRCQPSGHWEEPRITCTDATTYKRRLQK  
RSSRHPRRSRPSTAH

>sp|P52945|PDX1\_HUMAN Pancreas/duodenum homeobox protein 1 OS=Homo sapiens GN=PDX1 PE=1  
SV=1

MNGEEQYYAATQLYKDPCA FQRGPAPEFSASPPACLYMGRQPPPPPPHPFP GALGALEQG  
SPPDISPYEVPPLADDP AVAHLHHHLPAQLALPHPPAGPFPEGAEPGVLEEPNRVQLPFP  
WMKSTKAHAWKGQWAGGAYAAPEENKRTRTAYTRAQLLELEKEFLNKYISRPRRVELA  
VMLNLTERHIKIWFQNRMKWKKEEDKKRGGGTAVGGGGVAEPEQDCAVTSGEELLALPP  
PPPPGGAVPPAAPVAAREGRLPPGLSASPQPSSVAPRRPQEPR

>sp|Q13113|PDZ1I\_HUMAN PDZK1-interacting protein 1 OS=Homo sapiens GN=PDZK1IP1 PE=1 SV=1  
MSALSLLILGLLTAVPPASCQQGLGNLQPWMQGLIAVAVFLVLVAIAFAVNHFWCQEEPE  
PAHMILTVGNKADGVLVGTDGRYSSMAASFRSSEHENAYENVPEEEGKVRSTPM

>sp|O15018|PDZD2\_HUMAN PDZ domain-containing protein 2 OS=Homo sapiens GN=PDZD2 PE=1 SV=4  
MPITQDNAVLHLLPLYQWLQNSLQEGGDGPEQRLCQAAIQKLQEYIQLNFAVDESTVPPD  
HSPPEMEICTVYLTKELGDTETVGLSFGNIPVFGDYGEKRRGGKKRKRTHQGPVLDVGCIW  
VTELRKNSPAGKSGKVRLRDEILSLNGQLMVGVDVSGASYLAECWNGGFIYLI MLRRFK  
HKAHSTYNGNSSNSSEPGETPTLELGDRTAKKGKRTRKFGVISRPPANKAPEESKGSAGC  
EVSSDPSTELNGPDPELGNGHVFLQENGPDSLKEVAGPHLERSEVDRGTEHRIPKTDAP  
LTTSNDKRRFSKGGKTDFQSSDCLAREEVGRIWKMELLKESDGLGIQVSGGRGSKRSPHA  
IVVTQVKEGGAHRDGRLSLGDLLVINGHLLVGLSHEEAVAILRSATGMVQLVVASKEN  
SAEDLLRLTSKSLPDLTSSVEDVSSWTDNEDQADGEEDEGTSSSVQRAMPGTDEPQDVC  
GAEESKGNLESPKQGSNKIKLSRLSGGVHRLESVEEYNELMVRNGDPRIRMLEVSRDGR  
KHSLPQLLDSSSASQYHIVKKSSTRSLSTTQVESPWRLIRPSVISIIGLYKEKGKGLGFS  
IAGGRDCIRGQMGI FVKTI FPNGSAAEDGRLKEGDEILDVNGIPIKGLTFQEAIHFTKQI  
RSGLFVLTVRTKLVSPLTPCSTPTHMSRSASP NFNTSGGASAGGSDEGSSSSLGRKTPG  
PKDRIVMEVTLNKEPRVGLGIGACCLALENSPPGIYIHS LAPGSVAKMESNLSRGDQILE  
VNSVNRHAALSKVHAILSKCPPGPVRLVIGRHPNPKVSEQEMDEVIARSTYQESKEANS  
SPGLGTPLKSPSLAKKDSLISESELSQYFAHDVPGPLSDFMVAGSEDEDHPGSGCSTSEE  
GSLPPSTSTHKEPGKPRANSLVTLGSHRASGLFHKQVTVARQASLPGSPQALRNPLLRQR  
KVGCDYDANDASDEEEFDREGDCISLPGALPGPIRPLEDDPRRVSISSSKGMVDVHNQEER  
PRKTLVSKAISAPLLGSSVDLEESIPEGMVDAASYAANLTDSAEAPKGSPPGSSWWKKELSG  
SSSAPKLEYTVRTDTQSPTNTGSPSSPQQKSEGLGSRHRPVARVSPHCKRSEAEAKPSGS  
QTVNLTGRANDPCDLDSRVQATSVKVTVAGFQPGGAVEKESLGLTTGDACVSTSCELAS  
ALSHLDASHLTENLPKAASELGQQPMTELDSSSDLISSPGKKGAHPDPSKTSVDTGQVS  
RPENPSQPASPRVTCKARSPVRLPHEGSPSPGEKAAAPPDYSKTRSASETSTPHNTRRV  
AALRGAGPGAEGMTPAGAVLPGDPLTSQEQRQGAPGNHSKALEMTGIIHAPESSQEPSLLE  
GADSVSSRAPQASLSMLPSTDNTKEACGHVSGHCCPGGSRESPVTDIDSF IKELDASAAR  
SPSSQTGDSGSQEGSAQGHPPAGAGGGSSCRAEVPVGGQTSSPRRAWAAGAPAYPQWASQ  
PSVLD SINPDKHFTVNKNFLSNYSRNFSSFHEDSTLSGLGDSTEPSLSSMYGAEDSSS  
DPESLTEAPRASARDGWSPPRSRLVSLHKEDPSESEEEQIEICSTRGCPNPPSSPAHLPTQ  
AAICPASAKVLSLKYSTPRESVASPREKAACLPGSYTS GPDSSQPSSLLEMSSQEHE  
THA DISTSQNHRPSCAEETTEVTSASSAMENSPLSKVARHFHSPPIILSSPNMVNGLEH  
DLLD DETLNQYETSINAAASLSSFSVDVPKNGESVLENLHISESQDLDLLQKPKMIARRP  
IMAWFKEINKHNQGTHLRSKTEKEQPLMPARSPDSKI QMVSSSQKKGVTVPHPSPQPKTN  
LEN KDLSKKSPAEMLLTNGQKAKCGPKLKRLSLKGKAKVNSEAPAANAVKAGGTDHRKPL  
ISP QTSHKTL SKAVSQR LHVADHEDPDRNTTAAPRSPQCVLESKPPLATSGPLKPSVSDT  
SIRTFVSPLTSPKPVPEQGMWSRFHMAVLSEPDRGCPTTPKSPKCRAEGRAPRADSGPVSPAA  
SRNGMSVAGNRQSEPR LASHVAADTAQPRPTGEKGGNIMASDRLERTNQLKIVEISAEAV  
SETVCGNKPAESDRRGGLAQNCQEKSEIRLYRQVAESSTSHPSSLP SHASQAEQEMSR  
SFSMAKLASSSSSLQTAIRKAEYSQ GKSSLMDSRGGVPRNSIPGGPSGEDHLYFTPRPAT  
RTYSMPAQFSSHFGREGHPHSLGRSRDSQVPVTSSVVPEAKASRGGLPSLANGQGIYSV  
KPLLDTSRNL PATDEGDIISVQETSCLVTDKIKVTRRHICYEQNWPHESTSF FSVKQRIK  
SFENLANADRPVAKSGASPFLSVSSKPPIGRRSSGSIVSGSLGHPGDAAARLLRRSLSSC

SENQSEAGTLLPQMAKSPSIMTLTISRQNPETSSKGSSELKKSGLPLGIPTPTMTLAS  
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SPGPPAGGVSCPEKGGNRACPGGSGPKTSAAEPTSSASDTGEEAQLPFRRSWSVNDQL  
LVSAGDQQLQSVLSSVSKSTILTLIQEAKAQSENEEDVCFIVLNRKEGSGLGFSVAGG  
TDVEPKSITVHRVFSQGAASQEGTMNRGDFLLSVNGASLAGLAHGNVLKVLHQAQLHKDA  
LVVIKKGMDQPRPSARQEPPTANGKGLLSRKTIPLEPGIGRSVAVHDALCDEVKTSAGL  
GLSLDGGKSSVTGDGPLVIKRVYKGAEEQAGIIIEAGDEILAINGKPLVGLMHFDawnim  
KSVPEGPVQLLIRKHNSS

>sp|Q9H5P4|PDZD7\_HUMAN PDZ domain-containing protein 7 OS=Homo sapiens GN=PDZD7 PE=1 SV=1

MAQGFVAVGFDPLGLGDLSSGSLSSSRGHLGSDSGSTATRYLLRKQQRLLNGPPRGIRA  
SSPMGRVILINSPIEANSDESDIIHSVRVEKSPAGRLGFSVRGGSEHGLGIFVSKVEEGS  
SAERAGLCVGDKITEVNGLSLESTTMGSAVKLTSSSRLLHMMVRRMGRVPGIKFSKEKTT  
WVDVNNRRLVVEKCGSTPSDTSSGVRRIVHLYTTSDDFCLGFNIRGGKEFGLGIYVSK  
VDHGGLAEEENGIKVGDQVLAANGVRFDISHSQAVEVLKGQTHIMLTIKETGRYPAYKEM  
VSEYCWLDRLSNGVLQQLSPASESSSSVSSCASSAPYSSGSLPSDRMDICLGQEEPGRG  
PGWGRADTAMQTEPDAGGRVETWCVRPTVILRDTAIRSDGPHPGRRLSALSESPTAL  
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>sp|P34995|PE2R1\_HUMAN Prostaglandin E2 receptor EP1 subtype OS=Homo sapiens GN=PTGER1  
PE=2 SV=3

MSPCGPLNLSLAGEATTCAAPWVPNTSAVPPSGASPALPIFSMTLGAVSNLLALALLAQA  
AGRLRRRRSAATFLLFVASLLATDLAGHVIPGALVLRLYTAGRAPAGGACHFLGGCMVFF  
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PPPASGPDSRRRWGAHGPRASASSASSIASASTFFGGRSSGSARRARAHDMVMVGQLV  
GIMVSCICWSPMLVLVALVGGWSSTSLQRPLFLAVRLASWNQILDPPWVYILLRQAVLR  
QLLRLLPPRAGAKGGPAGLGLTPSAWEASSLRSSRHSGLSHF

>sp|Q9BRX2|PELO\_HUMAN Protein pelota homolog OS=Homo sapiens GN=PELO PE=1 SV=2

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VLERIEQACDPAWSADVAAVVMQEGLAHICLVTPSMTLTRAKVEVNIPRKRKGNCQHDR  
ALERFYEQVQVQAIQRHIHFDDVKCILVASPGFVREQCDYLFQQAVKTDNKLLENRSKF  
LQVHASSGHKYSLEALCDPTVASRLSDTKAAGEVKALDDFYKMLQHEPDRAFYGLKQVE  
KANEAMAIDTLLISDELFRHQDVATRSRYVRLVDSVKENAGTVRIFSSLHVSQEQLSQT  
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>sp|O60437|PEPL\_HUMAN Periplakin OS=Homo sapiens GN=PPL PE=1 SV=4

MNSLFRKRNGKGYSTVQTRSISNKESELIEQLQKNADQVEKNIVDTEAKMQSDLARLQ  
EGRQPEHRDVTLQKVLDSKLLYVLEADAAIAKHMHPQGDMIAEDIRQLKERVNTNLRGK  
HKQIYRLAVKEVDPQVNWAAALVEEKLKLNQSFQGTDLPLVDHQVEEHNIFHNEVKAIGP  
HLAKDGDKEQNSERAKYQKLLAASQARQQHLSSLQDYMQRCTNELYWLDQQAQGRMQYD  
WSDRNLDYPSRRRQYENFINRNLEAKEERINKLHSEGDQLLAAEHPRNSIEAHMEAVHA  
DWKEYLNLLICEESHLKYMEDYHQFHEDVKDAQELLRKVSDLNQKYGPDKFDRYQIELL  
LRELDQEKVLDKYEDVVQGLQKRQQVPLKYRRETPLKPIPEALCDFEGEQGLISRG  
YSYTLQKNNGESWELMDSAGNKLIAPAVCFVIPPTDPEALALADSLGSQYRSVRQKAAGS

KRTLQQRVEVLKTENPGDASDLQGRQLLAGLDKVASDLDRQEKAITGILRPPLEQGRAVQ  
DSAERAADLKNITNELLRIEPEKTRSTAEGEAFIQALPGSGTTPLLRTRVEDTNRKYEHL  
LQLDLAQEKVDVANRLEKSLQSQWELLATHENHLNQDDTVPESSRVLDSSKGQELAAMAC  
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RAQSLQSAKAAYEHFHRGHDHVLQFLVSIPISEYEPQETDLSQMETKLNQKNLLDEIASR  
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ALAAKFTEVYAINRQRLQNLEFALNLLRQQPEVEVTHETLQRNRPDSGVVEAWKIRKELD  
EETERRRQLENEVKSTQEEIWTLRNQGPQESVVRKEVLKKVPDPVLEESFQQLQRTLAE  
QHKNQLLQEELEALQLQRLAEQETRDGGQEVVKEVLRIEPDRAQADEVLQRLREELEAL  
RRQKGAREAEVLLLQQRVAALAEKSRAQEKVTEKEVVKLQNDPQLEAEYQQLQEDHQRQ  
DQLREKQEEELSFLQDKLRLEKERAMAEGKITVKEVLKVEKDAATEREVSDDLTRQYED  
AAKARASQREKTELLRKIWALEENAKVVVQEKVREIVRPDPKAESEVANLRLELVEQER  
KYRGAEELRSYQSELEALRRRGPPQVEVKEVTKEVIKYKTDPEMEKELQRLREEIVDKTR  
LIERCDLEIYQLKKEIQALKDTPQVQTKVQVEILQFQEDPQTKEEVASLRAKLSEEQK  
KQVDLERERASQEEQIARKEEELSRVKERVVQEVVRYEEEPGLRAEASAFASIDVELR  
QIDKLRAELRRLQRRRTELERQLEELERERQARREAEVQRLQQRLAALEQEEAEAREK  
VTHTQKVVLQQDPQAREHALLRLQLEEEQHRRQLLEGELETLLRKLAALEKAEVKEKVV  
LSESVQVEKGDTEQEIQLRKSSLEEESSRSKRELDVEVSRLEARLSELEFHNSKSSKELDF  
LREENHKLQLERQNLQLETRRLQSEINMAATETRDLRNMTVADSGTNHDSRLWSLERELD  
DLKRLSKDKDLEIDELQKRLGSAVKREQRENHLRRSIVVIHPDTGRELSPEEAHRAGLI  
DWNMFVKLRSEQCDWEEISVKGPNGESSVIHDRKSGKKFSIEEALQSGRLTPAQYDRYVN  
KDMSIQELAVLVSGQK

>sp|P56645|PER3\_HUMAN Period circadian protein homolog 3 OS=Homo sapiens GN=PER3 PE=1  
SV=4

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EMKKYFPSERRNKPSTLDALNYALRCVHSVQANSEFFQILSQNGAPQADVSMYSLEELAT  
IASHTSKNTDTFVAVFSFLSGRLVHISEQAALILNRKKDVLASSHFVDLLAPQDMRVFY  
AHTARAQLPFWNNWTQRAARYECAPVKPFFCRIRGGEDRKQEKCHSPFRIIPYLIVHHP  
AQPELESEPCCLTVVEKIHSGYEAIPRIPVKNRIFTTTHTPGCVFLEVDEKAVPLLGYLPQ  
DLIGTSILSYLHPEDRSLMVAIHQKVLKYAGHPPFEHSPIRFCTQNGDYIILDSSWSSFV  
NPWSRKISFIIGRHKVRTSPLNEDVFATKIKKMNDNDKDITELQEQIYKLLQPVHVSVS  
SGYGLSGSGSQEQLVSIASSSEASGHRVEETKAEQMTLQQVYASVNKIKNLGQQLYIES  
MTKSSFKPVTGTRTEPNGGGECKTFTSFHQTLKNSVYTEPCEDLRNDEHSPSYQQINCI  
DSVIRYLKSYNIPALKRKCISCTNTTSSSSEEDKQNHKADDVQALQAGLQIPAIPKSEMP  
TNGRSIDTGGGAPQILSTAMLSLGSISQCGYSSTIVHVPPPETARDATLFCEPWTLNMQ  
PAPLTSEEFKHVGLTAAVLSAHTQKEEQNYVDKFKREKILSSPYSSYLQQESRSKAKYSYF  
QGDSTSKQTRSAGCRKGKHKRKKLPEPPDSSSNTGSGPRRGAGHQAQPCCPAASSPHT  
SSPTFPPAAMVPSQAPYLVPAPFLPAATSPGREYAAPGTAPEGLHGLPLSEGLQPYPAFP  
FPYLDTFMTVFLPDPPVCPLLSPSFLPCPFLGATASSAISPSMSSAMSPTLDPPPSVTSQ  
RREEEKWEAQSEGHFPITSRSSSPLQLNLLQEEMPRPSESPDQMRRNTCPQTEYCVTGNN  
GSESSPATTGALSTGSPPRENPSHPTASALSTGSPMKNPESHPTASALSTGSPMKNPESH  
PTASTLSMGLPPSRTPSHPTATVLSTGSPPESESPTGSAASGSSDSSIYLTSSVYSSKI  
SQNGQQSQSDVQKKETFPNVAEPIWRMIRQTPERILMTYQVPERVKEVVLKEDLEKLESM  
RQQQPQFSGHQQEELAKVYNWISQSTVTQEIDIQACVTCENEDSADGAATSCGQVLVEDS

C

>sp|P11678|PERE\_HUMAN Eosinophil peroxidase OS=Homo sapiens GN=EPX PE=1 SV=2

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RLRSGSASPMDLLSYFKQPVAATRTRVRAADYMHVALGLLEEKLPQRSQPFNVDVLTE  
PQLRLLSQASGCALRDQAERCSDKYRTITGRCNNKRRPLLGNQALARWLPAYEDGLS  
LPFGWTPSRRRNGFLLPLVRAVSNQIVRFPNERLTSRGRALMFMQWGQFIDHDLDFSPE  
SPARVAFTAGVDCERTCAQLPPCFPIKIPNDPRIKNQRDCIPFFRSAPSCPQKNKRVN  
QINALTSFVDASVMYGVSEVSLSLRLNRNTNYLGLLAINQRFQDNGRALLPFDNLHDDPCL  
LTNRSARIPCFLAGDTRSTETPKLAAMHTLFMREHNRLATELRRLNPRWNGDKLYNEARK  
IMGAMVQIITYRDFLPLVLGKARARRTLGHYRGYCSNVDPRVANVFTLAFRFGHTMLQPF  
MFR LDSQYRASAPNSHVPLSSAFFASWRIVYEGGIDPILRGLMATPAKLNQDAMLVDEL  
RDRLFRQVRRIGDLAALNMQRSDHGLPGYNWRRFCGLSQPRNLAQLSRVLKNQDLAR  
KFLNLYGTPDNIDIWIGAI AEPLLPGARVGPLLACLFENQFRRARDGDRFWWQKRGVFTK  
RQRKALSRLSLRIICDNTGITTVSRDIFRANIYPRGFVNCSRIPLNLSAWRGT

>sp|P14222|PERF\_HUMAN Perforin-1 OS=Homo sapiens GN=PRF1 PE=1 SV=1

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VDTQRFLRPDGTCTLCENALQEGTLQRLPLALTNWRAQSGCQRHVTRAKVSSTEAVARD  
AARSIRNDWKVGLDVT PKPTS NVHVS VAGSHSQAANFAAQKTHQDQYSFSTDTVECRFYS  
FHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIRAVELGGRISALTALR  
TCELALEGLTDNEVEDCLTVEAQVNIIGHSISAEAKACEEKKKKHKMTASFHQTYRERH  
SEVVGHHITSINDLLFGIQAGPEQYSAWVNSLPGSPGLVDYTLPLHVLLDSQDPRREAL  
RRALSQYLTDRARWRDCSRPCPPGRQKSPRDPCQCVCHGSAVTTQDCCPRQRGLAQLEVT  
FIQAWGLWGDWFTATDAYVKLFFGGQELRTSTVWDNNNP IWSVRLDFGDVLLATGGPLRL  
QVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARCLPHLGGGTCLDYVPQ  
MLLGEPPGNRSGAVW

>sp|Q96FX8|PERP\_HUMAN p53 apoptosis effector related to PMP-22 OS=Homo sapiens GN=PERP  
PE=2 SV=1

MIRCGLACERCWILPLLLLSAIAFDIIALAGRWLQSSDHGQTSSLWWKCSQEGGGSGS  
YEEGCQSLMEYAWGAAAAAMLFCGFIILVICFILSFFALCGPQMLVFLRVIGLLALAAV  
FQIISLVIYPVKYTQTFTLHANPAVTYIYNWAYGFGWAATIILIGCAFFFCCLPNYEDDL  
LGNAKPRYFYTSA

>sp|O60683|PEX10\_HUMAN Peroxisome biogenesis factor 10 OS=Homo sapiens GN=PEX10 PE=1 SV=1

MAPAAASPPEVIRAAQKDEYYRGGLRSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGL  
TTLAGYQTLGEEYVSI IQVDPSRIHVPSLRRGVLVTLHAVLPYLLDKALLPLEQELQAD  
PDSGRPLQGSLPGGRGCSGARWRHHTATLTEQRRALLRAVFVLRQGLACLQRLHVA  
WFIYIHGVFYHLAKRLTGITYLRVRS LPGEDLRARVSYRLLGVISLLHLVLSMGLQLYGFR  
QRQRARKEWRLHRGLSHRRASLEERAVSRNPLCTLCEERRHPTATPCGHLFCWECITAW  
CSSKAECPLCREKFPPQKLIYLRHYR

>sp|P40855|PEX19\_HUMAN Peroxisomal biogenesis factor 19 OS=Homo sapiens GN=PEX19 PE=1  
SV=1

MAAAEEGCSVGA EADRELEELLESALDDFDKAKPSPAPPSTTTAPDASGPQKRSPGDTAK  
DALFASQEKFFQELFDELSAQATAEF EKAMKELAE EEPHLVEQFQKLSEAAGRVGSDMT  
SQQEFTSCLKETLSGLAKNATDLQNSSMSEELTKAMEGLGMDGEGGNILPIMQSIMQ  
NLLSKDVLPSLKEITEKYPEWLQSHRESLPPEQFEKYQE QHSVMCKICEQFEAETPTDS

ETTQKARFEMVLDLMQQLQDLGHPPKELAGEMPPGLNFDLDALNLSGPPGASGEQCLIM

>sp|O15212|PFD6\_HUMAN Prefoldin subunit 6 OS=Homo sapiens GN=PFDN6 PE=1 SV=1

MAELIQKKLQGEVEKYQQLQKDLSSMSGRQKLEAQLTENNIVKEELALLDGSNNVFKLL  
GPVLVKQELGEARATVGKRLDYITAEIKRYESQLRDLERQSEQQRETLAQLQQEFQRAQA  
AKAGAPGKA

>sp|P16234|PGFRA\_HUMAN Platelet-derived growth factor receptor alpha OS=Homo sapiens  
GN=PDGFRA PE=1 SV=1

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MSEESSDVEIRNEENNSGLFVTVLEVSSASAAHTGLYTCYNNHTQTEENELEGRHIYIY  
VPDPDAFVPLGMTDYLIVIVEDDDSAIIPCRTPPETPVTLNHSEGVVPASYDSRQGFNG  
TFTVGPIYCEATVKGKKFQTIPFNVYALKATSELDLEMEALKTVYKSGETIVVTCAVFNN  
EVVDLQWYTPGEVKGKGITMLEEIKVPSIKLVYTLTVPEATVKDSGDYECARQATREVK  
EMKKVTISVHEKGFIEIKPTFSQLEAVNLHEVKHFVVEVRAYPPPRISWLKNNLTLIENL  
TEITTDVEKIQEIRYRSLKLIRAKEEDSGHYTIVAQNEDAVKSYTFELLTQVPSSILDL  
VDDHHGSTGGQTVRCTAEGTLPDIEWMICKDIKKCNNETSWTILANNVSNIIITEIHSRD  
RSTVEGRVTFAKVEETIAVRCLAKNLLGAENRELKLVAPTLRSELTVA AAVLVLLVIVII  
SLIVLVVIWKQKPRYEIRWRVIESISPDGHEYIYVDPMQLPYDSRWEFPRDGLVLGRVLG  
SGAFGKVVEGTAYGLSRSQPMKVAVKMLKPTARSSEKQALMSELKIMTHLGPHLNIVNL  
LGACTKSGPIYIIITEYCFYGDLVNHLKNRDSFLSHHPEKPKKELDIFGLNPADESTRSY  
VILSFENNGDYMDMKQADTTQYVPMLEKEVSKYSIDIQRSLYDRPASYYKKKSMLESEVKN  
LLSDDNSEGLTLLDLLSFTYQVARGMEFLASKNCVHRDLAARNVLLAQGKIVKICDFGLA  
RDIMHDSNYVSKGSTFLPVKWMAPESIFDNLYTTLSDVWSYGILLWEIFSLGGTPYPGMM  
VDSTFYNKIKSGYRMAKPDHATSEVYEIMVKCWNSEPEKRPSTFYHLSEIVENLLPGQYKK  
SYEKIHLDFLKSDHPAVARMRVDSDNAYIGVYKNEEDKLDWEGGLDEQRLSADSGYII  
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SDLVEDSFL

>sp|P09619|PGFRB\_HUMAN Platelet-derived growth factor receptor beta OS=Homo sapiens  
GN=PDGFRB PE=1 SV=1

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VWERMSQEPPQEMAKAQDGTSSVLTLTNL TGLDTGEYFCTHNSRGLTDERKRLYIFV  
PDPTVGFLPNDAEELFIFLTEITEITIPCRVTDPLVVTLHEKKGDVALVPYDHQRGFS  
GIFEDRSYICKTTIGDREVSDAYVYRLQVSSINVSNAVQTVVRQGENITLMCIVIGN  
EVVNFETYPRKESGRLVEPVTDFLLDMPYHIRSILHIPS AELEDSGTYTCNVTESVNDH  
QDEKAINITVVESGYVRLLEGEVGTQFAELHRSRTLQVVF EAYPPPTVLWFKDNRTLGD  
SAGEIALSTRNVSETRYVSELTLVRVKVAEAGHYTMRAFHEDA EVQLSFQLQINVPVRVL  
ELSESHPDSGEQT VRCRGRGMPQPNIIWSACRDLKRCPRELPPTLLGNSSEESQLETNV  
TYWEEEQEFVSTLRLQHVDRLSVRCTLRNAVGQDTQEVIVPHSLPFKVVVISAILA  
LVVLTIIISLIILIMLWQKKPRYEIRWKVIESVSSDGHEYIYVDPMQLPYDSTWELPRDQL  
VLGRTLGSAGFGQVVEATAHGLSHSQATMKVAVKMLKSTARSEKQALMSELKIMSHLGP  
HLNVVNLLGACTKGGPIYIIITEYCRYGDLVDYLHRNKHTFLQHHS DKRRPPSAELYSNAL  
PVGLPLPSHVSLTGESDGGYMDMSKDESVDYVPM LDMKGDVKYADIESSNYMAPYDNYVP  
SAPERTCRATLINESPVLSYMDLVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLV  
KICDFGLARDIMRDSNYISKGSTFLPLKWMAPESIFNSLYTTLSDVWSFGILLWEIFTLG  
GTPYPELPMNEQFYNAIKRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLLER



LLGEGYKKKYQQVDEEFLRSDHPAILRSQARLPGFHGLRSPDTSVLYTAVQPNEGDND  
YIIPDPKPEVADEGLESPSLASSTLNEVNTSSTISCDSPLEPQDEPEPEPQLELQV  
EPEPELEQLPDSGCPAPRAEADSFL

>sp|I0J062|PAN01\_HUMAN Proapoptotic nucleolar protein 1 OS=Homo sapiens GN=PAN01 PE=2  
SV=1

MGVRLRVWPAAPHSISRCRPLGAVLSILLAGGSRKGTPTARCLGQRTKEKRVGGRSLRS  
EAGSGPCPTAGAQPTAPSSAWPPRLRPRTCPQMSGELPRVRPTRVGLSSLGSGPGHPPSG  
TRMCGERARNRRGRARRLTPEQPRIGASAGPGPPLPPARPCSGSCHLPRPPQHLSPQP  
GRVRMGAAEGSRRADTHHARRRRRARLPAPRSAST

>sp|095340|PAPS2\_HUMAN Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 2  
OS=Homo sapiens GN=PAPSS2 PE=1 SV=2

MSGIKKQKTENQQKSTNVVYQAHHVSRNKRQVVGTRGGFRGCTVWLTGLSGAGKTTISF  
ALEEYLVSHAIPCYSLDGDNVRHGLNRNLGFSPGDREENIRRIAEVAKLFADAGLVCITS  
FISPFADRENARKIHESAGLPFFEIVFDAPLNICESRDVKGLYKRARAGEIKGFTGIDS  
DYKEPETPERVLKTNLSTVSDCVHQVVELLQEQNIVPYTI IKDIHELFPENKLDHVRAE  
AETPLSLSTITKDLQWVQVLESGWATPLKGFMRKEYLQVMHFDTLDDGVINMSIPIVL  
PVSAEDKTRLEGCSKFVLAHGRRVAILRDAEFYHRKEERCSRVTCTCKHPIKMVM  
ESGDWLVGDLQVLEKIRWNDGLDQYRLTPELEKQKCKEMNADAVFAFQLRNPVHNGHAL  
LMQDTRRRLLERGYKHPVLLLHPLGGWTKDDDVPLDWRMKQHAHVLEEGVLDPKSTIVAI  
FPSPMLYAGPTEVQWHCRSMIAGANFYIVGRDPAGMPHPETKKDLYEPHGGKVLSMAP  
GLTSVEIIPFRVAAYNKAKKAMDFYDPAHNEFD FISGTRMRKLAREGENPPDGFMAPKA  
WKVLTDYRSLEKN

>sp|Q15546|PAQRB\_HUMAN Monocyte to macrophage differentiation factor OS=Homo sapiens  
GN=MMD PE=2 SV=2

MRFKNRFQRFMHRAPANGRYKPTCYEHAANCYTHAFLIVPAIVGSALLHRLSDDCWEKI  
TAWIYGMGLCALFIVSTVFHIVSWKKSHLRTVEHCFHMDRMVIYFFIAASYAPWNLRE  
LGPLASHMRWFIWLMAAGGTIYVFLYHEKYKVVELFFYLTMGFSPALVVTSMNNTDGLQE  
LACGGLIYCLGVVFFKSDGIIPFAHAIWHLFVATAAAVHYAIWKYLYRSPTDFMRHL

>sp|Q9HBI0|PARVG\_HUMAN Gamma-parvin OS=Homo sapiens GN=PARVG PE=1 SV=1

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EHIVVRSLEEDMFDGLILHHLFQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRSLE  
EWQAKWSVESIFNKDLLSTLHLLVALAKRFQPDLSLPTNVQVEVITIESTKSLKSEKL  
EQLTEYSTDKDEPPKDVDELFLAPEKVNAVEAIVNFVNQKLDRLGLSVQNLDQFAD  
GVILLLLIGQLEGFFLHLKEFYLTNPSPAEMLHNVTLALELLKDEGLLSCPVPSPEDIVNK  
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>sp|Q96RG2|PASK\_HUMAN PAS domain-containing serine/threonine-protein kinase OS=Homo  
sapiens GN=PASK PE=1 SV=3

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RTALSEDRWSSYCLSSLAQNICTSKLHCPAAPEHTDPSEPRGSVSCCSLLRGLSSGWSS  
PLLPAPVCNPNKAIFTVDAKTEILVANDKACGLLGYSSQDLIGQKLQFFLRSDSDVVE  
ALSEEHMEADGHAHVFGTVVDIISRSGEKIPVSVWMKMRQERRLCCVVVLEPVERVST  
WVAFQSDGTVTSCDSLFAHLHGYVSGEDVAGQHITDLIPSVQLPPSGQHIPKNLKIQRSV  
GRARDGTTFPLSLKLSQPSSEEAATTGEAAPVSGYRASVWFCTISGLITLLPDGTIHGI  
NHSFALTFLGYGKTELLGKNITFLIPGFYSYMDLAYNSSLQLPDLASCLDVGNESGCGER

TLDPWQQDPAEGGQDPRINVLAGGHVVRDEIRKLMESQDIFTGTQTELIAGGQLLSC  
LSPQAPAGVDNVEGSLPVHGEQALPKDQQITALGREEPVAIESPGQDLLGESRSEPVDV  
KPFASCEDSEAPVAEDGGSDAGMCLCQKAQLERMGVSGPSGSDLWAGAAVAKPQAKGQ  
LAGGSLLMHCPCYGSEWGLWWSQDLAPSPSGMAGLSFGTPTLDEPWLGVENDREELQTC  
LIKEQLSQLSLAGALDVPHAELVPTecQAVTAPVSSCDLGGDLGCGCTGSSSACYALAT  
DLPGGLEAVEAQEVDVNSFSWNLKELFFSDQTDQTSSNCSCATSELRETPSSLAVGSDPD  
VGSLQEQGSCVLDDRELLLLTGTCVDLGQGRRFRESCVGHDPTEPLEVCLVSSEHYAASD  
RESPGHVPSTLDAGPEDTCPSAEEPRLNVQVTSTPVIIVMRGAAGLQREIQEGAYSGSCYH  
RDGLRLSIQFEVRRVELQGPTPLFCCWLVKDLLHSQRDSAARTLFLASLPGSTHSTAAE  
LTGPSLVEVLRARPWFEEPPKAVELEGLAACEGEYSQKYSTMSPLGSGAFGFVWTAVDKE  
KNKEVVVKFIKKEKVLDCWIEDPKLGKVTLEIATLSRVEHANIIVLDIFENQGFFQLV  
MEKHGSLDLFAFIDRHPRLDEPLASYIFRQLVSAVGYLRKDI IHRDIKDENIVIAEDF  
TIKLIDFGSAAYLERGKLFYTCGTIEYCAPEVLMGNPYRGPELEMWSLGVTLTYTLVFEE  
NPFCELEETVEAAIHPPYLVSKEMLSLVSGLLQPVPERRTTLEKLVTDPWVTQPVNLADY  
TWEEVFRVNPESGVLSAASLEMGNRSLSDVAQAQELCGGPVPGAPNGQGCLHPGDPRL  
LTS

>sp|Q86TB9|PATL1\_HUMAN Protein PAT1 homolog 1 OS=Homo sapiens GN=PATL1 PE=1 SV=2

MFRYESLEDCPLDEDEDAFQGLGEEDDEIDQFNDDTFGSGAVDDDWQEAHERLAELEEKL  
PVAVNEQTGNGERDEMDLLGDHEENLAERLSKMVIENELEDPAIMRAVQTRPVLQPQPGS  
LNSSIWDGSEVLRRIRGPLLAQEMPTVSVLEYALPQRPPQGPEDDRDLSERALPRRSTSP  
IIGSPVRAVPIGTTPPKQMAVPSFTQQILCPKPVHVRPPMPPRYPAPYGERMSPNQLCSV  
PNSSLLGHPFPSPVPPVLSPLQRAQLLGGALQPGRMSPSQFARVPGFVGSPLAAMNPKL  
LQGRVGQMLPPAPGFRAFFSAPPSATPPPQQHPPGPGPHLQNLRSQAPMFRPDTTHLHPQ  
HRRLLHQRQQNRSQHRNLNGAGDRGSHRSSHQDHLRKDPYANMLQREKDWVSKIQMMQ  
LQSTDPYLDFFYYQNYFEKLEKLSAAEEIQGDGPKKERTKLITPQVAKLEHAYKPVQFEG  
SLGKLTVSSVNNPRKMIDAVVTSRSEDETKEKQVRDKRRKTLVIEKTYSLLLDVEDYE  
RRYLLSLEERPALMDDRKHKICSMDNLRGKLPGQERPSDDHFVQIMCIRKGKRMVARI  
LPFLSTEQAADILMTARNLPFLIKKDAQDEVLPCLLSPFSLLLYHLPSVSITSLLRQLM  
NLPQSAATPALSNPHLTAVLQNKFGLSLLLILLSRGEDLQSSDPATESTQNNQWTEVMFM  
ATRELLRIPQAALAKPISIPTNLVSLFSRYVDRQKLNLETKLQLVQGIR

>sp|P15863|PAX1\_HUMAN Paired box protein Pax-1 OS=Homo sapiens GN=PAX1 PE=1 SV=4

MKFTLGLGSAWRVSWEGAAAAAGPGAGGSALRCARQVSSPRLGRRGSRLSGALPLCL  
SRGGGGAQALPDCAGPSPGHPGHPGARQLAGPLAMEQTYGEVNQLGGVFVNGRPLPNAIR  
LRIVELAQLGIRPCDISRQLRVSHGCVSKILARYNETGSILPGAIGGSKPRVTTPNVVKH  
IRDYKQGDPGIFAWEIRDRLLAGVCDKYNVPSVSSISRILRNKIGSLAQPGPYEASKQP  
PSQPTLPYNHIYQYPYSPVPTGAKMGSHPGVPGTAGHVSIPRSWPSAHSVSNILGIRT  
FMEQTGALAGSEGTAYSPKMEDWAGVNRTAFPATPAVNGLEKPALEADIKYTQSASTLSA  
VGGFLPACAYPASNQHGVSAPGGGYLAPGPPWPPAQGPPLAPPAGVAVHGGELAAAMT  
FKHPSREGSLPAPAARPTPSVAYTDCPSRPRPPRGSSPRTRARRERQADPGAQVCAAAP  
AIGTGRIIGGLAEEEEASAGPRGARPSQAQPCLPDPHFLYWSGFLGFSELGF

>sp|Q02962|PAX2\_HUMAN Paired box protein Pax-2 OS=Homo sapiens GN=PAX2 PE=1 SV=4

MDMHCKADPFSAMHPGHGGVNQLGGVFVNGRPLPDVVRQRIVELAHQGVRCDISRQLRV  
SHGCVSKILGRYYETGSIKPGVIGGSKPKVATPKVVDKIAEYKRNPTMFAWEIRDRLLA  
EGICDNDTVPSVSSINRIIRTKVQQPFHPTPDGAGTGVTAPGHTIVPSTASPPVSSASND

PVGSYSINGILGIPRSNGEKKRDEVEVYTDPAHIRGGGGLHLVWTLRDVSEGSVPNGDS  
QSGVDSLRLKHLRADTFTQQLEALDRVFERPSYPDVFAQSEHIKSEQGNEYSLPALTPGL  
DEVKSSLSASTNPELGSNSVSGTQTYPVVTGRDMASITLPGYPPHVPPTGQGSYPTSTLAG  
MVPGSEFSGNPYSHQYTYAYNEAWRFSNPALLSSPYYYSAAPRGSAAPAAAAAYDRH

>sp|Q9UKZ9|PCOC2\_HUMAN Procollagen C-endopeptidase enhancer 2 OS=Homo sapiens GN=PCOLCE2  
PE=1 SV=1

MRGANAWAPLCLLLAAATQLSRQQSPERPVTCTGGILTGESGFIGSEGFPGVYPPNSKCT  
WKITVPEGKVVLNFRFIDLESDNLCRYDFVDVYNHANGQRIGRFCGTFRPGALVSSGN  
KMMVQMISDANTAGNGFMAMFSAAEPNERGDQYCGLLDRPSGSFKTPNWPDRDYPAGVT  
CVWHIVAPKNQLIELKFEKFDVERDNYCRYDYAVFNGGEVNDARRIGKYCGDSPAPIV  
SERNELLIQFLSDLTADGFIGHYIFRPKKLPTTTEQPVTTFPVTTLGKPTVALCQQK  
CRRTGTLEGNYCSSDFVLGTVITITRDGSLHATVSIINIYKEGNLAIQQAGKNMSARL  
TVVCKQCPLLRRGLNYIIMGQVGEDGRGKIMPNSFIMMFKTQKLLDALKNKQC

>sp|Q9UHG2|PCSK1\_HUMAN ProSAAS OS=Homo sapiens GN=PCSK1N PE=1 SV=1

MAGSPLLWGPRAGGVLLVLLLLGLFRPPALCARPVKEPRGLSAASPPLAETGAPRRFR  
RSVPRGEAAGAVQELARALAHLEAERQERARAEAEQEDQARVLAQLLRVWGAPRNSD  
PALGLDDDPDAPAAQLARALLRARLDPAAALAAQLVPAPVAAAALRPPVYDDGPAGPDA  
EEAGDETPDVPELLRYLLGRILAGSADSEGVAAPRRLRAADHDVGSELPEGVLGALL  
RVKRLTPAPQVPARRLLPP

>sp|Q8NBP7|PCSK9\_HUMAN Proprotein convertase subtilisin/kexin type 9 OS=Homo sapiens  
GN=PCSK9 PE=1 SV=3

MGTVSSRRSWWPLLLLLLLLLLPAGARAQEDDGDYEELVLALRSEEDGLAEAPHEGT  
TATFHRCAKDPWRLPGTYVVVLKEETHLSQSERTARRLQAQAARRGYLTKILHVFHGLLP  
GFLVKMSGDLLELALKLPHVDYIEEDSSVFAQSIPWNLERITPPRYRADEYQPPDGGSLV  
EVYLLDTSIQSDHREIEGRVMVTDENVPEEDGTRFHRQASKCDSHGTHLAGVVSGRDAG  
VAKGASMRSLRVLNCQGKGTSGTLIGLEFIRKSQLVQPVGPLVLVLLPLAGGYSRVLNAA  
CQLARAGVVLVTAAGNFRDDACLYSPASAPEVITVGATNAQDQPVTLGTLGTNFGRCVD  
LFAPGEDIIGASSDCSTCFVSQSGTSQAAAHVAGIAAMMLSAPELTLAELRQRLIHFS  
KDVINEAWFPEDQRVLTPLNVAALPPSTHGAGWQLFCRTVWSAHSGPTRMATAVARCAPD  
EELLSCSSFRRSGKRRGERMEAQGGKLCRAHNAFGGEGVYAIARCCLLPQANCSVHTAP  
PAEASMGTRVHCHQGHVLTGCSHWEVEDLGTHKPPVLRPRGQPNQCVGHREASIHASC  
CHAPGLECKVKEHGIPAQEQTVACEEGWTLTGCSALPGTSHVLGAYVDNTCVVRSRD  
VSTTGSTSEGAVTAVAICCRSRHLAQASQELQ

>sp|P49585|PCY1A\_HUMAN Choline-phosphate cytidylyltransferase A OS=Homo sapiens GN=PCYT1A  
PE=1 SV=2

MDAQCSAKVNARKRRKEAPGPNGATEEDGVPSKVQRCAVGLRQPAPFSDEIEVDFSKPYV  
RVTMEEASRGTPCERPVRVYADGIFDLFHSGHARALMQAKNLPNTYLIVGVCDELTHN  
FKGFTVMNENERYDAVQHCRYVDEVVRNAPWTLTPEFLAEHRIDFVAHDDIPYSSAGSDD  
VYKHIKEAGMFAPTQRTEGISTSDIITRIVRDYDVYARRNLQRGYTAKELNVSFINEKKY  
HLQERVDKVKKKVKDVEEKSKEFVQKVEEKSIDLIQKWEEKSREFIGSFLEMFGEALGK  
HMLKEGKGRMLQAISPKQSPSSPTRERSPPSPFRWPFSGKTSPPCSPANLSRHKAAAYD  
ISEDEED

>sp|Q9UHG3|PCYOX\_HUMAN Prenylcysteine oxidase 1 OS=Homo sapiens GN=PCYOX1 PE=1 SV=3  
MGRVVAELVSSLLGLWLLLCSCGCEGAELRAPPKIAIIGAGIGGTSAAYYLRQKFGKD

VKIDLFEREVEVGGRLATMMVQGGQEYEAAGSVIHPLNLHMKRFVKDLGLSAVQASGGLLGI  
YNGETLVFEESNWFIIINVIKLVWRYGFQSLRMHWMVEDVLDKFMRIYRYQSHDYAFSSVE  
KLLHALGGDDFLGMLNRTLLETQKAGFSEKFLNEMIAPVMRVNYGQSTDINAFVGAVSL  
SCSDSGLWAVEGGNKLVCSSGLQASKSNLISGSMYIEEKTCTKYTGNTKMYEVVYQIG  
TETRSDFYDIVLVATPLNRKMSNITFLNFDPPIEEFHQYYQHIVTTLVKGELNTSIFSSR  
PIDKFGLNTVLTDTNDSDFINSIGIVPSVREKEDPEPSTDGTYYVWKIFSQETLTKAQILK  
LFLSYDYAVKKPWLAYPHYKPEKCPSSIILHDLRYLNGIECAASAMEMSAIAAHNAALL  
AYHRWNGHTDMIDQDGLYEKLKTEL

>sp|Q9NZQ7|PD1L1\_HUMAN Programmed cell death 1 ligand 1 OS=Homo sapiens GN=CD274 PE=1 SV=1

MRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVWEME  
DKNIIQFVHGEECLKVQHSSYRQRARLLKQSLGNAALQITDVKLQDAGVYRCMISYGG  
ADYKRITVKVNAPYKNINQRILVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTT  
TTNSKREEKLFNVSTLRLNTTNEIFYCTFRRLDPEENHTAELVPELPLAHPNERTH  
LVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET

>sp|Q9Y5Y4|PD2R2\_HUMAN Prostaglandin D2 receptor 2 OS=Homo sapiens GN=PTGDR2 PE=1 SV=3

MSANATLKPLCPILEQMSRLQSHSNTSIRYIDHAAVLLHGLASLLGLVENGVLFFVVGCR  
MRQTVVTTWVLHLALSDLLASASLPFFTYFLAVGHSWELGTTFCCLHSSIFFLNMFASGF  
LLSAISLDRCLQVVRPVWAQNHRTVAAAHKVCLVLWALAVLNTVPYFVFRDTISRDLGRI  
MCYYNVLLNPGPDRDATCNSRQVALAVSKFLLAFLVPLAIIASSHAASRLRQHRGRRR  
PGRFVRLVAAVVAALCWGPYHVSLLLEARAHANPGLRPLVWRGLPFVTSLAFFNSVAN  
PVLVLTCPDMLRKLRRSLRTVLESVLVDDSELGGAGSSRRRRTSSTARSASPLALCSR  
PEPRGPARLLGWLLGSCAASPQTGPLNRALSSTSS

>sp|075340|PDCD6\_HUMAN Programmed cell death protein 6 OS=Homo sapiens GN=PDCD6 PE=1 SV=1

MAAYSRYRPGPGAGPGAAGAALPDQSFLWNVFQRVDKDRSGVISDTELQQALSNGTWTPF  
NPVTVRSIIISMFDRENKAGVNFSEFTGVWKYITDWQNVFRITYDRNSGMIDKNELKQALS  
GFGYRLSDQFHDILIRKFDRQGRGQIAFDDFIQGCIVLQRLTDIFRRYDTDQDGIQVSY  
EQYLSMVFSIV

>sp|Q9Y233|PDE10\_HUMAN cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A  
OS=Homo sapiens GN=PDE10A PE=1 SV=1

MRIEERKSQHLTGLTDEKVKAYLSLHPQVLDEFVSESVAETVEKWLKRKNKSEDESAP  
KEVSRYQDTNMQGVVYELNSYIEQRLDTGGDNQLLLYELSSIIKIATKADGFALYFLGEC  
NNSLCIFTPPGIKEGKPRILPAGPITQGTTSAYVAKSRKTLLVEDILGDERFPRGTGLE  
SGTRIQSVLCLPIVTAIGDLIGILELYRHWGKEAFCLSHQEVATANLAWASVAIHQVQVC  
RGLAKQTELNDFLLDVSKTYFDNIVAIDSLEHIMIYAKNLVNADRCALFQVDHKNKELY  
SDLFDIGEEKEGKPVFKKTKEIRFSIEKGIAGQVARTGEVLNIPDAYADPRFNREVDLYT  
GYTTRNILCMPIVSRGSGVIGVQMVNKSISGSAFSKTDENNFKMFAVFCALALHCANMYHR  
IRHSECIYRVTMKLSYHSICTSEEWQGLMQFTLPVRLCKEIELFHFDIGPFENMWPGIF  
VYMHVHSCGTSCFELEKLCRFIMSVKKNYRRVPYHNWKHAVTVAHCMYAILQNNHTLFTD  
LERKGLLIACLCHDLHRGFSNSYLQKFDHPLAALYSTSTMEQHHFSQTVSILQLEGHNI  
FSTLSSSEYEQVLEIRKAI IATDLALYFGNRKQLEEMYQTGSLNLNQSHRDRVIGLMM  
TACDLCVTKLWPVTKLTANDIYAEFWAEGDEMKKLGIPMMDRDKKDEVPPQGQLGFY  
NAVAIPCYTTLTQILPPTEPLLKACRDNLSQWEKVIRGEETATWISSPSVAQKAAASED

>sp|P54750|PDE1A\_HUMAN Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A OS=Homo sapiens GN=PDE1A PE=2 SV=2

MGSSATEIEELENTTFKYLTGEQTEKMWQRLKGILRCLVKQLERGDVNVVDLKKNIEYAA  
SVLEAVYIDETRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMTKKKPEEKPFRS  
IVHAVQAGIFVERMYRKTYHMGVGLAYPAAVIVTLKDVDKWSFDVFALNEASGEHSLKFMI  
YELFTRYDLINRFKIPVSLITFAEAELEVGYSKYKNPYHNLIHAADVTQTVHYIMLHTGI  
MHWLTELEILAMVFAAAIHDIYEHTGTTNNFHIQTRSDVAILYNDRSVLENHHVSAAYRLM  
QEEEMNILINLSKDDWRDLRNLVIEMVLSTMSGHFQQIKNIRNSLQQPEGIDRAKTMSL  
ILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRKSTMVAQSQIGF  
IDFIVEPTFSLTDSSTEKIVIPLIEEASKAETSSYVASSSTTIVGLHIADALRRSNTKGS  
MSDGSYSPDYSLAAVDLKSFKNNLVDI IQQNKERWKELAAQEARTSSQKCEFIHQ

>sp|Q01064|PDE1B\_HUMAN Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B OS=Homo sapiens GN=PDE1B PE=1 SV=2

MELSPRPPEMLEESDCPSPLELKSAPSKKMWIKLRSLRYMVKQLENGEINIEELKKNL  
EYTASLLEAVYIDETRQILDTEDELQELRSDAVPSEVRDWLASTFTQQARAKGRRAEKPK  
KFRSIVHAVQAGIFVERMFRRITYTSVGPTYSTAVLNCLKNLDLWCFDVFSLNQAADDHAL  
RTIVFELLTRHNLISRFKIPTVFLMSFLDALETGYGKYKNPYHNQIHAADVTQTVHCFLL  
RTGMVHCLSEIELLAIIFAAAIDHYEHTGTTNSFHIQTKSECAIVYNDRSVLENHHISSV  
FRLMQDDEMNIFINLTKEFVELRALVIEMVLATDMSCHFQQVKTMKTALQQLERIDKPK  
ALSLLHAADISHPTKQWLHRSRWTALMEEFFRQGDKEAELGLPFSPLCDRTSTLVAQS  
QIGFIDFIVEPTFSLTDVAEKSVQPLADEDSKSKNQPSFQWRQPSLDVEVGDPNPDVVS  
FRSTWVKRIQENKQKWKERAASGITNQMSIDELSPCEEEAPPSPAEDHNQNGNLD

>sp|P16499|PDE6A\_HUMAN Rod cGMP-specific 3',5'-cyclic phosphodiesterase subunit alpha OS=Homo sapiens GN=PDE6A PE=1 SV=4

MGEVTAEVEKFLDSNIGFAKQYYNLHYRAKLISDLLGAKEAAVDFSNYHSPSSMEESEI  
IFDLLRDFQENLQTEKICFNVMKKLCFLQADRMSLFMYRTRNGIAELATRLFNVHKDAV  
LEDCLVMPDQEI VFPLDMGIVGHVAHKKIANVPNTEEDEHFCDFVDILTEYKTKNILAS  
PIMNGKDVAIIMAVNKVDGSHFTKRDEEILLKYNFANLIMKVYHLSYLHNCETRGGQI  
LLWSGSKVFEELTDIERQFHKALYTVRAFLNCDRYSVGLLDMTKQKEFFDVWPVLMGEVP  
PYSGPRTPDGREINFYKVIDYILHGKEDIKVIPNPPPDHWALVSGLPAYVAQNGLICNIM  
NAPAEFFFAFQKEPLDESGWMIKNVLSMPIVNKKEEIVGVATFYNRKDGPFDDEMETLM  
ESLTQFLGWSVLNPDTYESMNKLENRKDIFQDIVKYHVKCDNEEIQKILKTREYVGKEPW  
ECEEEELAEILQAELPDADKYEINKFHFSDLPLETELVKCGIQMYEYELKVVDKFHIPQE  
ALVRFMYSLSKGYRKITYHNWRHGFNVGQTMFSLLVTGKLKRYFTDLEALAMVTAAFCHD  
IDHRGTNNLYQMSQNP LAKLHGSSILERHHLEFGKTLRDESLNIFQNLNRRQHEHATH  
MMDIAIIATDLALYFKKRTMFQKIVDQSKTYESEQEWYQYMMLEQTRKEIVMAMMMTACD  
LSAITKPWEVQSQVALLVAAEFWEQGDLETLVQQNP IPMDRNKADEL PKLQVGFDIVFV  
CTFVYKEFSRFEHEITPMLDGI TNNRKEWKALADEYDAKMKVQEEKKQKQSAKSAAAGN  
QPGGNPSPGGATTSKSCCIQ

>sp|O43924|PDE6D\_HUMAN Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit delta OS=Homo sapiens GN=PDE6D PE=1 SV=1

MSAKDERAREILRGFKLNWMNLDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVS  
RELNFSSTEQMEKFRLEQKVYFKGQCLEEWFEEFGFVIPNSTNTWQSLIEAAPESQMMPA  
SVLTGNVIIETKFFDDDLLVSTSRVRLFYV

>sp|Q9NP56|PDE7B\_HUMAN cAMP-specific 3',5'-cyclic phosphodiesterase 7B OS=Homo sapiens  
GN=PDE7B PE=1 SV=1

MSCLMVERCGEILFENPDQNAKCVCMLGDIRLRGQTGVRAERRGSYPFIDFRLNSTTYS  
GEIGTKKKVKRLLSFQRYFHASRLLRGIIPQAPLHLLDEEDYLQARHMLSKVGMWDFDIF  
LFDRLTNGNSLVTLCHLFNTHGLIHHFKLDMVTLHRFLVMVQEDYHSQNPYHNAVHAAD  
VTQAMHCYLKEPKLASFLTPLDIMLGLLAAAHDVDHPGVNQPFLLIKTNHHLANLYQNMS  
VLENHHWRSTIGMLRESRLLAHLPKEMTDIEQQLGSLILATDINRQNEFLTRLKAHLHN  
KDLRLDAQDRHFMLQIALKCADICNPCR IWEMSKQWSERVCEEFYRQGELEQKFELEIS  
PLCNQQKDSIPSIQIGFMSYIVEPLFREWAHFTGNSTLSENMLGHLAHNKAQWKSLLPRQ  
HRSRGSSSGPDHHDHAGQGTESEEQEGDSP

>sp|076083|PDE9A\_HUMAN High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A  
OS=Homo sapiens GN=PDE9A PE=1 SV=1

MSGSSSYRPKAIYLDIDGRIQKVIKSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAM  
VSIDPTMPANSERTPYKVRPVAIKQLSAGVEDKRTTSRGQSAERPLDRRVVGLEQPRRE  
GAFESGQVEPRPREPQGCYQEQGRIPPEREELIQSVLAQVAEQFSRAFKINELKAEVANH  
LAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCCKYSFLDNHKKLTPRRDV  
PTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRWLF  
CVHDNYRNNPFHNRHCFCAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDPGYN  
NTYQINARTELA VRYNDISPLENHHC AVAFQILAEPECNIFSNIPPDGFKQIRQGMITLI  
LATDMARHAEIMDSFKEKMENFDYSNEEHMTLLKMILIKCCDISNEVRPMEVAEPWVDCL  
LEEFYMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFVLIPMFETVTKLFPMVEEIML  
QPLWESRDYELKRIDDAMKELQKKTDSL TSGATEKSRERSRDVKNSEGDCA

>sp|P01127|PDGFB\_HUMAN Platelet-derived growth factor subunit B OS=Homo sapiens GN=PDGFB  
PE=1 SV=1

MNRCWALFLSLCCYLRLVSAEGDPIPEELYEMLSDHSIRSFDLQRL LHGD PGEEDGAEL  
DLNMTSRHSGGELESLARGRRSLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLV  
WPPCVEVQRCSGCCNNRNVQCRPTQVQLRPVQVRKIEIVRKPIFKKATVTLEDHLACKC  
ETVAAARPVTRSPGGSQE QRAKTPQTRVTI RTVRVRPPKGKHKFKH THDKTALKETLG  
A

>sp|P13667|PDIA4\_HUMAN Protein disulfide-isomerase A4 OS=Homo sapiens GN=PDIA4 PE=1 SV=2

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSRENAIEDEEEEEEDDDDEEDDLEVKE  
ENGVLVLNDANFDNFVADKDTVLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKI  
DATSASVLASRFDVSGYPTIKILKKGQAVDYEGSRTQEEIVAKVREVSQPDWTPPEVTL  
VLTKENFDEVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSKRSPPIPLAKVDATEAE  
TDLAKRFDVSGYPTLIKIFRKGRPYDNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL  
KDGGDVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQP  
EKFQSKYEPRSHMMDVQGSTQDSA IKDFVLKYALPLVGHRKVSND AKRYTRRPLVVVYYS  
VDFSFDYRAATQFWRSKVLEVAKFPEYTF AIADEEDYAGEVKDLGLSESGEDVNAAILD  
ESGKKFAMEPEEFDSDLREFVTAFKKGKLPV IKSQVPKNNKGPVKVVVGKTFDSIVM  
DPKKDVLIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF  
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

>sp|Q15084|PDIA6\_HUMAN Protein disulfide-isomerase A6 OS=Homo sapiens GN=PDIA6 PE=1 SV=1

MALLVLGLVSCTFFLAVNGLYSSDDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQR  
LTPEWKAATALKDVVKGAVDADKHHS LGGQYGVQGFP TIKIFGSNKNRPEDYQGGRTG

EAIVDAALSALRQLVKDRLGGRSGGYSSGKQGRSDSSSKKDVIELTDDSFDKNVLDSEDV  
WMVEFYAPWCGHCKNLEPEWAAAASEVKEQTKGKVKLA AVDATVNQVLASRYGIRGFPTI  
KIFQKGESPVDDYDGGTRSDIVSRALDLFSDNAPPELLEIINEDIAKRTCEEHQLCVVA  
VLPHILDTGAAGRNSYLEVLLKLADKYKKKMWGLWTEAGAQSELETALGIGGFGYPAMA  
AINARKMKFALLKGSFSEQINEFLRELSFGRGSTAPVGGGAFPTIVEREPWDGRDGELP  
VEDDIDLSDVELDDLKDEL

>sp|Q9Y2S7|PDIP2\_HUMAN Polymerase delta-interacting protein 2 OS=Homo sapiens GN=POLDIP2  
PE=1 SV=1

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTRRHLSSNRNPEGK  
VLETVGVEVPKQNGKYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAG  
HGSKEVKGKTHTYQVLIDARDCPHISQRSQTEAVTFLANHDDSRALYAIPLDYVSHED  
ILPYTSTDQVPIQHLEFERFLLYDQTKAPPFVARETLRAWQEKNPWLELSDVHRETTEN  
IRVTVIPFYMGMREAQNSHVYWWRYCIRLENLSDVVLQRLERHWRIFSLSGTLETVRGRG  
VVGREPVLSEKQPAFQYSSHVSLQASSGHMWGTFRFERPDGSHFDVRIPPSLESNKDEK  
TPPSGLHW

>sp|Q9BY77|PDIP3\_HUMAN Polymerase delta-interacting protein 3 OS=Homo sapiens GN=POLDIP3  
PE=1 SV=2

MADISLDELIRKRAAAKGRNLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDAKQKI  
GLSDARLKLGVKDAREKLLQKDARFRIKGVQDAREMLNSRKQQTTPQKPRQVADAREK  
ISLKRSSPAAFINPPIGTVTPALKLTKTIQVPQQKAMAPLHPHPAGMRINVNNHQAQKN  
LYLDDEDDGIASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKALPLTKVVQNDAYTAPA  
LPSSIRTKALTNMSRTLNVNKEEPPKELPAAEPVLSPLEGKMTVNNLHPRVTEEDIVELF  
CVCGALKRARLVHPGVAEVVFKDDAITAYKKYNNRCLDGQPMKCNLMNGNVITSDQP  
ILLRLSDSPSMKKESELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTFEKIK  
L

>sp|Q16654|PDK4\_HUMAN [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4,  
mitochondrial OS=Homo sapiens GN=PDK4 PE=1 SV=1

MKAARFVLRASGLNAGLVPREVEHFSRYSPSPLSMKQLLDGSENACERTSFAFLRQE  
LPVRLANILKEIDILPTQLVNTSSVQLVKSWEYIQSLMDLVEFHEKSPDDQKALSDFVDTL  
IKVRNRHHNVPTMAQGIIEYKDACTVDPVTNQLQYFLDRFYMNRISTRMLNQHILIF  
SDSQTGNPSHIGSIDPNCDDVAVVQDAFECSRMLCDQYYLSSPELKLTVNGKFPDQPIH  
IVYVPSHLHHMLFELFKNAMRATVEHQENQPSLTPIEVIVVLGKEDLTIKISDRGGGVPL  
RIIDRLFSYTYSTAPTPVMDNSRNAPLAGFGYGLPISRLYAKYFQGDNLNLSLSGYGTDA  
IIYLKALSSESIEKLPVFNKSAFKHYQMSSEADDWCIPSREPKNLAKEVAM

>sp|Q96HC4|PDLI5\_HUMAN PDZ and LIM domain protein 5 OS=Homo sapiens GN=PDLIM5 PE=1 SV=5

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGGAQANVRIGDVVLSIDGINAQQ  
MTHLEAQNKIKGCTGSLNMTLQRASAAPKPEPVVQKGEPKEVVKVPVITSPAVSKVTST  
NNMAYNKAPRPFGSVSSPKVTSIPSPSSAFTPAHATTSSHASPVAAVTPPLFAASGLH  
ANANLSADQSPSALSAGKTAVNVPRQPTVTSVCSETSQELAEGQRRGSQGDQKQNGPPR  
KHIVERYTEFYHVPHTSDASKRLIEDTEDWRPRTGTTQSRFRILAQITGTEHLKESEA  
DNTKKANNSQEPSPQLASSVASTRSMPELSDPTSGRPGVTSLTAAAFKPVGSTGVIKS  
PSWQRPNQGVPTGRISNSATYSGSVAPANSALGQTQPSDQDTLVQRAEHIPAGKRTPMC  
AHCNQVIRGPFLVALGKSWHPEEFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECG  
RCQRKILGEVISALKQTHVSCFVCVACGKPIRNNVFHLEDGEPYCETDYALFGTICHG

CEFPIEAGDMFLEALGYTWHDTCFVCSVCCESLEGQTFFSKKDKPLCKKHAHSVNF

>sp|Q9NUG6|PDRG1\_HUMAN p53 and DNA damage-regulated protein 1 OS=Homo sapiens GN=PDRG1  
PE=1 SV=2

MLSPEAERVRLRYLVEVEELAAEVLADKRQIVDLDTKRQNREGLRALQKDLSLSEDMVC  
FGNMFIKMPHPETKEMIEKDQDHLKEIEKLRKQLKVKVNRLFEAQGKPELKGFNLNPLN  
QDELKALKVILKG

>sp|Q96RI0|PAR4\_HUMAN Proteinase-activated receptor 4 OS=Homo sapiens GN=F2RL3 PE=1 SV=3

MWGRLLLWPLVLGFSLSGGTQTPSVYDESGTGGGDDSTPSILPAPRGYPGQVCANDSDT  
LELPDSSRALLLGWVPTRLVPALYGLVLVGLPANGALWVLATQAPRLPSTMLLMNLAA  
ADLLLALALPPRIAYHLRGQRWPFGEAACRLATAALYGHMYGSVLLAAVSLDRYLALVH  
PLRARALRGRRLALGLCMAAWLMAAALALPLTLQRQTFRLARSDRVLCHDALPLDAQASH  
WQPAFTCLALLGCFLPLLAMLLCYGATLHTLAASGRRYGHARLRLTAVVLASAVAFFVPSN  
LLLLLHYSDFSPSAWGNLYGAYVPSLALSTLNSCVDPFIIYYVSAEFRDKVRAGLFQRSP  
GDTVASKASAEGGSRGMGTHSSLLQ

>sp|Q9HBI1|PARVB\_HUMAN Beta-parvin OS=Homo sapiens GN=PARVB PE=1 SV=1

MSSAPRSPTPRPRRMKKDESFLGKLGGLTARKRRAREVSDLQEEGNAINSPMSPALVDV  
HPEDTQLEENEERTMIDPTSKEDPKFKELVKVLLDWINDVLVEERIIVKQLEEDLYDGQV  
LQKLEKLAGCKLNVAEVTQSEIGQKQKLQTVLEAVHDLLRPRGWALRWSVDSIHGKNLV  
AILHLLVSLAMHFRAPIRLPEHVTQVVVVVRKREGLLHSSHISEELTTTTEMMGRFERD  
AFDTLFDHAPDKLSVVKKSLITFVNKHLNKNLEVTELETQFADGVYLVLLMGLEDYFV  
PLHHFYLTPESEFDQVHNVSFAFELMLDGGKKPKARPEDVVNLDLKSTLRVLYNLFYKY  
KNVE

>sp|B3GLJ2|PATE3\_HUMAN Prostate and testis expressed protein 3 OS=Homo sapiens GN=PATE3  
PE=2 SV=1

MNKHFLFLFLLYCLIVAVTSLQCITCHLRTRTDRCRRGFGVCTAQKGEACMLLRIYQRNT  
LQISYMCQKFCRDMTFDLNRNRYVHTCCNYNCFKL

>sp|Q96IZ0|PAWR\_HUMAN PRKC apoptosis Wt1 regulator protein OS=Homo sapiens GN=PAWR PE=1  
SV=1

MATGGYRTSSGLGGSTTDFLEEWKAKREKMRKQNPFGPAPPGGSSDAAGKPPAGALGT  
PAAAAANELNNNLPGGAPAAPVPGPGGVNCAVGSAMLTRAAPGPRSEDEPPAASASAA  
PPPQRDEEEDPGVPEKGKSSGPSARKGKGQIEKRKLREKRRSTGVVNIPAAECLDEYEDD  
EAGQKERKREDAITQQNTIQNEAVNLLDPGSSYLLQEPPTVSGRYKSTTSVSEEDVSSR  
YSRTDRSGFPRYNRDANVSGTLVSSSTLEKKIEDLEKEVVRERQENLRLVRLMQDKEEMI  
GKLKEEIDLLNRDLDDIEDENEQLKQENKTLKVVGQLTR

>sp|P40424|PBX1\_HUMAN Pre-B-cell leukemia transcription factor 1 OS=Homo sapiens GN=PBX1  
PE=1 SV=1

MDEQPRLMHSHAGVMAGHPGLSQHLQDGAGGTEGEGGRKQDIGDILQQIMTITDQSLDE  
AQARKHALNCHRMKPALFNLCEIKEKTVLSIRGAQEEETDPQLMRLDNMLLAEGVAGP  
EKGGGSAAAAAASGGAGSDNSVEHSDYRAKLSQIRQIYHTELEKYEACNEFTTHVM  
NLLREQSRTRPISPKIEIEMVSIHRKFSSIQMLKQSTCEAVMILRSRFLDARRKRRNF  
NKQATEILNEYFYSHLSNPYPSEEAKKCGITVSQVSNWFGNKRIRYKKNIGKFQE  
EANIYAAKTAVTATNVSAHGSQANSPSTPNSAGSSSFNMSNSGDLFMSVQSLNGDSYQG  
AQVGANVQSQVDTLRHVISQTGGYSDGLAASQMYSPQGISANGGWQDATTSSVTSPTTEG  
PGSVHSDTSN



>sp|Q9BZA7|PC11X\_HUMAN Protocadherin-11 X-linked OS=Homo sapiens GN=PCDH11X PE=2 SV=1

MDLLSGTYIFAVLLACVVFHSGAQEKNYTIREEMPENVLIGDLLKDLNLSLIPNKSLLTA  
MQFKLVYKTGDVPLIRIEEDTGEIFTTGARIDREKLCAGIPRDEHCFYEVEVAILPDEIF  
RLVKIRFLIEDINDNAPLFPATVINISIPENSAINSKYTLPAAVDPDVGINGVQNYELIK  
SQNIFGLDVIETPEGDKMPQLIVQKELDREKDTYVMKVVEDGGFPQRSSTAILQVSVT  
DTNDNHPVFKETIEVSIPENAPVGTSTVQLHATDADIGENAKIHFSFNLVSNIRRLF  
HLNATTGLITIKEPLDREETPNHKLLVLASDGGLMPARAMVLNVTDVNDNVPIDIRYI  
VNPVNDTVVLSENIPLNTKIALITVTDKADHNGRVTCFTDHEIPFRLRPVFSNQFLEET  
AAYLDYESTKEYAIKLLAADAGKPLNQSAMLFIKVKDENDNAPVFTQSFVTVSIPENNS  
PGIQLTKVSAMDADSGPNAKINYLLGPDAPPEFSLDCRTGMLTVVKLDREKEDKYLFTI  
LAKDNGVPPLTSNVTVFVSIIDQNDNSPVFTHNEYNFYVPENLPRHGTVGLITVTDPDYG  
DNSAVTLSILDENDFTIDSQTGVI RPNISFDREKQESYTFYVKAEDGGRVSRSSSAKVT  
INVVDVNDNKPVFI VPPSNCSYELVLPSTNPGTVVFQVIAVDNDTGMNAEVRYSI VGGNT  
RDLFAIDQETGNITLMEKCDVTDLGLHRVLVKANDLGQPD SLFSVIVNLFVNESVTNAT  
LINELVRKSTEAPVTPNTEIADVSPTS DYVKILVAAVAGTITV VVIFITAVVRCRQAP  
HLKAAQKNKQNSEWATPNPENRQMIMMKKKKKKKHSPKNLLLNFVTIEETKADDVDS DG  
NRVTLDLPIDLEEQTMGKYNWVTPTTFKPDSPDLARHYKSASPQAFQIQPETPLNSKH  
HIIQELPLDNTFVACDSISKSSSSSDPYSVSDCGYPVTTFEVPVSVHTRPPMKEVVRSC  
TPMKESTTMEIWIHPQPQRKSEKGVAGKSQRRVTFHLPEGSQESSSDGGLGDHDAGSLTS  
TSHGLPLGYPQEEYFDRATPSNRTEGDGNSDPESTFIPGLKAAEITVQPTVEEASDNCT  
QECL IYGHSDACWMPASLDHSSSSQAQASALCHSPPLSQASTQHHSRPTQTIALCHSPP  
VTQTIALCHSPPPIQVSALHHSPLVQATALHHSPPSAQASALCYSPLAQAAAISHSSP  
LPQVIALHRSQAQSSVSLQQGWVQGADGLCSVDQGVQGSATSQFYTMSERLHPSDDSIKV  
IPLTFTPRQQARPSRGDSPIMEEHPL

>sp|Q15365|PCBP1\_HUMAN Poly(rC)-binding protein 1 OS=Homo sapiens GN=PCBP1 PE=1 SV=2

MDAGVTESGLNVTLTIRLLMHGKEVGSII GKKGESVKRIREESGARINISEGNCPERIIT  
LTGPTNAIFKAFAMIIDKLEEDINSSMTNSTAASRPVTLRLVVPATQCGSLIGKGCKI  
KEIRESTGAQVQVAGDMLPNSTERAIT IAGVPQSVTECVKQICLVMLETLSQSPQGRVMT  
IPYQMPASSPVICAGGQDRCSDAAGYPHATHDLEGPPLDAYSIIQQHTISPLDLAKLNQ  
VARQQSHFAMMHGGTG FAGIDSSSPEVKGYWASLDASTQTTHELTIPNNLIGCIIGRQGA  
NINEIRQMSGAQIKIANPVEGSSGRQVTITGSAASISLAQYLINARLSSEKGMGCS

>sp|P57721|PCBP3\_HUMAN Poly(rC)-binding protein 3 OS=Homo sapiens GN=PCBP3 PE=2 SV=2

MGEQDAFWAPSVLPHSTLSTLSHHPQPQFGRRMESKVSEGLNVTLTIRLLMHGKEVGSII  
IGKKGETVKKMREESGARINISEGNCPERIVTITGPTDAIFKAFAMIAYKFEEDIINSMS  
NSPASKPPVTLRLVVPASQCGSLIGKGSKIKEIRESTGAQVQVAGDMLPNSTERA VTI  
SGTPDAIIQCVKQICVVMLESPPKGATIPYRKPASTPVIFAGGQAYTIQGQYAIHPDQ  
LTKLHQLAMQQTPTFPPLGQTNPAFPGEKLPLHSSEEAQNLMGQSSGLDASPPASTHELT I  
PNDLIGCIIGRQGTKINEIRQMSGAQIKIANATEGSSERQITITGTPANISLAQYLINAR  
LTSEVTGMGTL

>sp|Q96JQ0|PCD16\_HUMAN Protocadherin-16 OS=Homo sapiens GN=DCHS1 PE=1 SV=1

MQKELGIVPSCPGMKSPRPHLLPLLLLLLLLLL GAGVPGAWGQAGSLDLQIDEEQAGTL  
IGDISAGLPAGTAAPLMYFISAQEGSGVGTDLAIDEHSGVVRTARVLDREQRDRYFTAV  
TPDGATVEVTVRVADINDHAPFPQARAALQVPEHTAFGTRYPLEPARDADAGRLGTQGY  
ALSGDGAGETFRLETRPGDPGTPPELVVTGELDRENRSHYMLQLEAYDGGSPPRRAQAL

LDVTLLDINDHAPAFNQSRHAVVSESLAPGSPVLQVFASDADAGVNGAVTYEINRRQSE  
GDGPFSDAHTGLLQLERPLDFEQRRVHEL VVQARDGGAHPELGSAFVTVHVRDANDNQP  
SMTVIFLSADGSPQVSEAAPPQQLVARISVSDPDDGDFAHVNVSLEGGEHFALSTQDSV  
IYLCVARRLDREERDAYNLRVTATDSGSPPLRAEAAFLVHTDVNDNAPAFDRQLYRPE  
PLPEVALPGSFVVRVTARDPDQGTNGQVTYSLAPGAHTHWFSIDPTSGIITTAASLDYEL  
EPQPQLIVVATDGGLPPLASSATVSVALQDVNDNEPQFQRTFYNASLPEGTQPGTCFLQV  
TATDADSGPFGLLSYSLGAGLGSSGSPFRIDAHSQDVCTTRTLDRDQGPSSFDFTVTAV  
DGGGLKSMVYVKVFLSDENDNPPQFYPREYAASISAQSPPGTAVLRLRAHDPDQGSHGRL  
SYHILAGNSPPLFTLDEQSGLLTVAWPLARRANSVVQLEIGAEDGGGLQAEP SARVDISI  
VPGTPTPPIFEQLQYVFSVPEDVAPGTSVGIVQAHNPPGRLAPVTLSSLGGDPRGLFSLD  
AVSGLLQTLRPLDRELLGPVLELEV RAGSGVPPAFAVARVRVLLDDVNDNSPAFPAPEDT  
VLLPNTAPGTPIYTLRALDPDSGVNSRVFTLLAGGGGAFTVDPTTGHVRLMRPLGPSG  
GPAHELELEARDGGSPPRTSHFRLRVVQDVGTRGLAPRFNSPTYRVDLPSTTAGTQVL  
QVQAQAPDGGPI TYHLAAEGASSPFGLEPQSGWLWVRAALDREAQELYILKMAVSGSKA  
ELGQQTGTATVRVSI LNQNEHSPRLSEDPTFLAVAENQPPGTSVGRVFATDRDSGPNGRL  
TYSLQQLSEDSKAFRIHPTGEVTTLQTL DREQSSYQLLVQVQDGGSPPRSTTGTVHVA  
VLDLNDNSPTFLQASGAAGGLPIQVPDRVPPGTLVTTLQAKDPDEGENGTILYTLTGPG  
SELFSLPHSGELLTAAPLIRAERPHYVLTLSAHDQGSPPRSASLQLLVQVLPSARLAEP  
PPDLAERDPAAPVPVVLTVTAAEGLRPGSLLGSVAPEPAGVGALTYTLVGGADPEGTFA  
LDAASGRLYLARPLDFEAGPPWRALT VRAEGPGGAGARLLRVQVQVDENEHAPAFARDP  
LALALPENPEGAALYTFRASDADGPGNSDVRYRLLRQEPPVPALRLDARTGALSAPRG  
LDRETTPALLLLVEATDRPANASRRRAARVSARVFVTDENDNAPVFASPSRVRLPEDQPP  
GPAALHVVARDPDLGEAARVSYRLASGGDGHFRLHSSTGALS VVRPLDREQRAEHVLTVV  
ASDHGSPPRSATQVLTVSVADVND EAPTQQQEQSVLLRENNPPGTSLLTLRATDPDVGA  
NGQVTYGGVSSSEFSLDPDTGVLTTLRALDREEQEEINLTVYAQDRGSPPQLTHVTVRVA  
VEDENDHAPTFGSAHLSLEVPEGQDPQTLTMLRASDPDVGANGQLQYRILDGDPGSAFVL  
DLASGEFGTMRPLDREVEPAFQLRIEARDGGQPALSATLLLTVTVLDANDHAPAFPVPAY  
SVEVPEDVPAGTLLLQLQAHPDAGANGHVITYYLGAGTAGAFLLPESSGELRTAAALDRE  
QCPSYTFSVSAVDGAAAGPLSTTVSVTITVRDVNDHAPTFTSPLRLRLPRPGPSFSTPT  
LALATLRAEDRDAGANASILYRLAGTPPPGTTVDSYTGEIRVARSPVALGPRDRVLFIVA  
TDLGRPARSATGVIIVGLQGEAERGRPFPRASSEATIRENAPPGTPIVSPRAVHAGGTNG  
PITYSILSGNEKGTFSIQ PSTGAITVRS AEGLDFEVSPRLRLVLQAESGGAF AFTVLTLT  
LQDANDNAPRFLRPHYVAFLPESRPLEGPLLQVEADDLDQSGGGQISYSLAASQPARGLF  
HVDPTTGTITTTAILDREIWAETRLVLMATDRGSPALVGSATLTMVIDTNDNRPTIPQP  
WELRVSEDALLGSEIAQVTGNDVDSGPVLWYVLSPSGPQDPFSVGRYGGRVSLTGPLDFE  
QCDRYQLQLLAHDGPHEGRANLTVLVEDVNDNAPAFSQSLYQVMLEHTPPGSAILSVSA  
TDRDSGANGHISYHLASPADGFSVDPNNGTLFTIVGTVALGHDGSGAVDVVLEARDHGAP  
GRAARATVHVQLQDQNDHAPSFTLSHYRVAVTEDLPPGSTLLTLEATDADGSRSHAAVDY  
SIIISGNWGRVFQLEPRLAEAGESAGPGPRALGCLVLEPLDFESLTQYNLTVAAADRGQP  
PQSSVVPVTVTVLDVNDNPPVFTRASYRVTPEDTPVGAELLHVEASDADPGPHGLVRFT  
VSSGDPSTGLFELDESSGTLRLAHALDCETQARHQLVVQAADPAGAHFALAPVTIEVQDVN  
DHGPAFPLNLLSTSVAENQPPGTLVTTLHAIDGDAGAFGRRLRYSLLEAGPGPEGREAFAL  
NSSTGELRARVPFDYEHTESFRLLVGAADAGNLSASVTVSVLVTGEDEYDPVFLAPAFHF  
QVPEGARRGHSLGHVQATDEDGGADGLVLYSLATSSPYFGINQTTGALYLRVDSRAPGSG

TATSGGGGRTREAPRELRLLEVIARGPLPGSRSATVPVTVDTHTALGLAPDLNLLLVGA  
VAASLGVVVVLALAAVLGLVRARSRKAEEAPGPMSQAAPLASDSLQKLGREPPSPPPSE  
HLYHQTLPSYGGPGAGGPYPRGGLDPSHSSGRGSAEAAEDDEIRMINFEPRVASVASSL  
AARGPDSGIQQDADGLSDTSCEPPAPDTWYKGRKAGLLLPAGATLYREEGPPATATAFL  
GGCGLSPAPTGDYGFADGKPCVAGALTAIVAGEEELRGSYNWDYLLSWCPQFQPLASVF  
TEIARLKDEARPCPPAPRIDPPPLITAVAHPGAHSVPPKPANTAAARAIFPPASHRSPIS  
HEGSLSSAAMSPSFSPSLSPLAARSPVVSFPGVAQGPSASALSAESGLEPPDDTELHI

>sp|Q6V1P9|PCD23\_HUMAN Protocadherin-23 OS=Homo sapiens GN=DCHS2 PE=2 SV=1

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AIVFRSQEENAKPVKETEVITASDADSGLYGFIEYSLYDGFLSYEAPQAFRIDPHDGGICV  
SQDIDRERDPATYDLLVEAKDGDQRMTHLALVKGGLSAQAFVRVLEDVNDNHPVFNPS  
TYVTSISDETQPGTEIINVLATDQDSGIYGTVAYELIPGNVSSLFTIDSTTGLYSPEVEI  
LSAVNFSADKEVMNSLEMFLPLLRFHFKKVERDEEAAEKKFEASRGWFMRFKGRRLHYLK  
VQDEAASADGEEAARYVANLAKILGEGIIYLTPLSHLESTTSLMVSQAQDGGGLTAVIN  
ADVTIHIFQTTLAPAEFERPKYFTLVYEDVPEDSPIGTVKAREPLNSSEPIFYRISSGDL  
GGKFSIHPRLGTIRTRKPLDHETQPVVVLTVQAQLGSAPACSSTEVNI TVMDVNDNHPAF  
LRTSDEIRISQTPPGTALYLARAEDRDSGRNGLIRYSIASPQPGVFAIDRALGVFLNG  
SLGAGEQRELTLTRAEDQGVHPQAALLVLTVVIEKREHSPSWTFEHLVYQVEVSESLSP  
MTQMLQTQAHPLGPQRAASPLRYSLEPSVDSAMFGIRPYTGWIIYLRQFDYESTQTYNFR  
VFAWIPEDGFLQNVSTTVIVRVWDENDNSPTFLHDVFLKVEESPVPQGVIGKITAIDMD  
SGKNGQLLYFLLSDGKFFKMNPNTGPAGTIYVITWADGAAAFSGTDFAFSSDELQAFVLK  
SLFCELGEGELINWVALDREHRGHHEMTVLVTDRGSPPRNATMAVYVSVTDINDNRPFFP  
QCLPGKELHVKVLEGQPVNMLVTTVFAKDPDEGNNAEVTYSVSSSEDSSDHFKIDANNGEI  
RTTTLISYDYRPSYRMSVIATDQGVPPQQGQAVVNIQVIPLSKGRAIMSQNIRHLIIPEN  
LKPTKIMSLIKSSDHLQHHYNGKLHFSIVADDDKHFEIDSSTGDLFLSKELDYETTSHY  
LFRVITTDHSKNLSLSTVFLSIDVEDQNDHSPSFQDELIVISVEENVPIGTLVYVFNK  
DDDGSFLNSRIQYYIESHNPGTNPFLIHPSFGTLVTVSRLDRESIPTVILTVTASDAQVN  
VTDRRLRSLTAQIVILDVNDHNPTFISFPNAHVKEDVTGSLVHHITAHPDEGRNGKVT  
YSILSGNENMTFMLESSGLLTTTCPLDYEMKTQHILTVLALDDGTPALSSSQTLTVTVL  
DVNDEAPVFKQHLYEASVKENQNPGEFVTRVEALDRDSGVNSKLQFEIMPGASFELFEIN  
SDTGEVVTITILDREIQEVFTLRVLVRDGGFPLSSTTILCTVEDENDHAPEFIVSSYD  
IEVLENQEPEVVYTVLASDMDAGNNRAVEYHIIDGNTDECFTINEMSGELSTTRALDREQ  
ISNFTLVILCSDLGDPFRSSV IHLQVRVLDANDHSPSFPTLYYQSSVREDAEVGTVVVLV  
SAVDKDEGLNGQTEYFLTDEASGAFTIDPMSGTLKTSNTLDREARSQHTFSAVARDCSIQ  
GSRSTTVIIKVYVTDVNDNDPVLEQNPFDFVFLSPESPTNQTTVIVRADDLDLGPNGTVVF  
SFAETQSMFSIDKYTGELQFQQNPSSEYFPIWLQLKVTQGGIPARTTTGLLVIHMEGEDV  
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TVKEPKFLDFEVRNEVQLIVLAESSGHRAYCKVAVLIQDENDNSPCFEQSIYQASVSESQ  
LYNAHVIQVFATDLDSGLNGLIEYSILSGNQEEAFQIDALSGVITTKAILDYELTSSYSL  
IVQATDKGMPRLSNTTVIKVQVTDINDNAPAFLPSEAVEITEDSLPGVIVTHVSVHDVDL  
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YLVLLHSLDREASASHELVILASDSGCPPLSSTAVISIQVLDVNDNPPNFSSLSYHTHVK  
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FTLTVQASDAEKKHFSFAVVFVSVLDDNDHAPQFMFSSFSCIVPENLPISSTICSINALD  
FDAGPYGELTYSIVSPCFLTHGMSYDHDLFLLIDPLTGDIAKQILDYENGKNKYCLTVQAK  
DKGDATASLVVWVDIEGIDEFEPIFTQDQYFFTLPEKNKDRQLIGRVEASDADAGIDGVI  
LYSLGTSSPFFSVNKTNGNIYLIRALPLIKSQLNKEDTLEMKIIAHSPKSDSKFASCTVF  
VNVFSSEGTPLAVFASSFSISLVVSFLVFLILICILIVMILRHKKQDTINNYEKKTS  
LDADLRVTRDASVLKAFQKTDDCSNEVVPVDPATPEWLSLISIMEKDIVNLYRHSNSSGHC  
SVEGETAEDKEIQRINEHPYRKCSDSALSDHESRPVDSGIPRSDQLSCLSGETDVMVTA  
ETAASQTFGEGDQGECCSTTCAQNNVLPQTVQKREAKESILADVRKESVFISGDQEVRC  
AALSTQTTSDHDGKDNHWNLLSWEKFKPLASVFNDAKLKDEHLHMPGIPKEKKSFV  
FPPPLITAVAQPGIKAVPPRMPAVNLGQVPPKHPRSPIPYHLGSLPEGMTPNFSPSLSLL  
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>sp|Q9Y5H7|PCDA5\_HUMAN Protocadherin alpha-5 OS=Homo sapiens GN=PCDHA5 PE=2 SV=1

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AVKDINDNPPRFSRQEQRLFILSRMPDSRFPLEGASDLDIGANAQLRYRLNPNEYFDLD  
VKTNEEETNFLELVLRKSLDREETQEHRLVVIATDGGKPELTGTVQLLINVLDANDNAPE  
FDKSIYNVRLLENAPSGTLVIKLNASDADEGINKEIVYFFSNLVLDVKSFKIINSNTGE  
IKVNGELDYEDNSYEINIDAMDKSTFPLSGHCKVVVKLLDVNDNTPEMAITTLFLPVKE  
DAPLSTVIALISVSDRDSGANGQVTCSLMPHVPFKLVSTFKNYYSVLDSALDRESVSVY  
ELVVTARDGGSPSLWATASVSVEVADVNDNAPAFAPQYTVFVKENPPGCHIFTVSARD  
ADAQENALVSYSLVERRVGERPLSSYVSVHAESGKVYALQPLDHEEVELLQFQVSARDAG  
VPPLGSNVTLQVFVLDENDNAPALLVPRVGGTGGAVSELVPRSVGAGHVAKVRAVDPS  
GYNAWLSYELQAPGASARIPFRVGLYTGEISTTRSLDETEAPRHRLVLVKDHGEPPLTA  
TATVLVSLVESGQAPKASSRASAGAVGPEAALVDNVYLIITAICAVSSLLVLTLLLYTAL  
RCSAQPTAEVCTRKGPTLLCSSAVGWSYSQQRRQRVCSGEAPPKTDLMAFSPSLPQGPT  
STDNPRQPNPDWRYASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTVSSATPEPEAGEV  
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TFGKKEETKKKKKKKGNKTQEKKEKGNSTTDNSDQ

>sp|Q9UN72|PCDA7\_HUMAN Protocadherin alpha-7 OS=Homo sapiens GN=PCDHA7 PE=2 SV=1

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PRLFRAVCKFRGDLEVNQNGILFVNSRIDREELCGRSAECSIHLEIVIVERPLQVFHVD  
VEVKDINDNPPVFPATQRNLFIAESRPLDSRFPLEGASDADIGENALLTYRLSPNEYFFL  
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SGYNAWLSYELQPAAGASIPFRVGLYTGEISTTRALDETDAPRHRLVLVKDHGEPST  
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SSTDNPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTVSSATPEPEAGE  
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>sp|Q9Y5I0|PCDAD\_HUMAN Protocadherin alpha-13 OS=Homo sapiens GN=PCDHA13 PE=2 SV=1

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DADAQENALVSYSLVERRVGERALSSYSVSHAESGKVYALQPLDHEELELLQFQVSARDS  
GVPLGSGNVTLQVFVLDENDNAPALLTPGAGSAGGTVSELMPSVAGHVVAKVRAVDAD  
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>sp|Q9Y5E7|PCDB2\_HUMAN Protocadherin beta-2 OS=Homo sapiens GN=PCDHB2 PE=1 SV=1

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>sp|Q9Y5E6|PCDB3\_HUMAN Protocadherin beta-3 OS=Homo sapiens GN=PCDHB3 PE=2 SV=1

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MQLVKYLNFEAINSYEVDIEAKDGGGLSGKSTVIVQVVDVNDNPPELTLSSVNSPIPENS  
GETVLAVFSVSDLDSDGNRMVCSIENNLPFLKPSVENFYTLVSEALDRETRSEYNIT  
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WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKHRLVVLVKDNGEPPRSATATLHV  
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>sp|Q9Y5E5|PCDB4\_HUMAN Protocadherin beta-4 OS=Homo sapiens GN=PCDHB4 PE=2 SV=1

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LLVDGFSQPYPPLPEAAPAAQAQADSLTVYLVVALASVSSLFLFSVLLFVAVRLCRRSRAAS  
VGRCSVPEGPFPGHLVDVSGTGTLSSQSYQYEVCLTGDSGTGEFKFLKPIFPNLLVQDTGR  
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>sp|Q9UN67|PCDBA\_HUMAN Protocadherin beta-10 OS=Homo sapiens GN=PCDHB10 PE=1 SV=1

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LLVDGFSQPYPPLPEAAPAAQAQAEADLLTVYLVVALASVSSLFLFSVLLFVAVRLCRRSR  
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>sp|Q9Y5I4|PCDC2\_HUMAN Protocadherin alpha-C2 OS=Homo sapiens GN=PCDHAC2 PE=2 SV=1

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>sp|Q9Y5H1|PCDG2\_HUMAN Protocadherin gamma-A2 OS=Homo sapiens GN=PCDHGA2 PE=2 SV=1

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>sp|Q9Y5H0|PCDG3\_HUMAN Protocadherin gamma-A3 OS=Homo sapiens GN=PCDHGA3 PE=2 SV=2

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>sp|Q9Y5H3|PCDGA\_HUMAN Protocadherin gamma-A10 OS=Homo sapiens GN=PCDHGA10 PE=2 SV=1

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HFSLRVQSRANGVKYPELVLEHSLDREEEAIIHHLVLTASDGGDPLRSGTVLVSVTVFDAN  
DNAPVFTLPEYRVSVPENLPVGTQLLTVTATDRDEGANGEVTYSFRKL PDTQLLK FQLNK  
YTGEIKISENL DYEETGFYEIEIQAEDGGAYLATAKVLITVEDVNDNSPELTITSLFSPV  
TEDSPLGTVVALLNVHLDLSENGQVTC SILAYLPFKLEKSIDSYRVLVIHRALDREQVS  
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>sp|094913|PCF11\_HUMAN Pre-mRNA cleavage complex 2 protein Pcf11 OS=Homo sapiens GN=PCF11  
PE=1 SV=3

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HRRWYYS L TDWIEFEEIADLEERAKSQFFEKVHEEVVLKTQEA AKEKEFQSV PAGPAGAV  
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>sp|Q96MG8|PCMD1\_HUMAN Protein-L-isoaspartate O-methyltransferase domain-containing protein 1 OS=Homo sapiens GN=PCMTD1 PE=1 SV=2

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LKVGGILVMPIEDQLTQIMRTGQNTWESKNILAVSFAPLVQPSKNDNGKPDVGLPPCAV  
RNLQDLARIYIRRTLRFINDEMQAKGIPQRAPPKRKRKRVKQRINTYVFGNQLIPQPL  
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>sp|Q8IVA1|PCP2\_HUMAN Purkinje cell protein 2 homolog OS=Homo sapiens GN=PCP2 PE=2 SV=2

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>sp|Q16549|PCSK7\_HUMAN Proprotein convertase subtilisin/kexin type 7 OS=Homo sapiens GN=PCSK7 PE=1 SV=2

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>sp|Q99447|PCYT2\_HUMAN Ethanolamine-phosphate cytidylyltransferase OS=Homo sapiens GN=PCYT2 PE=1 SV=1

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>sp|Q8NBM8|PCYXL\_HUMAN Prenylcysteine oxidase-like OS=Homo sapiens GN=PCYOX1L PE=1 SV=2

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GTVGGRLATISVNKQHYESGAASFHSLSLHMQDFVKLLGLRHRREVVGSAIFGGEHFML  
EETDWYLLNLFRLWWHYGISFLRLQMWWEEVMEKFMRIYKYQAHGYAFSGVEELLYSLGE  
STFVNMTQHSVAESLLQVGVTQRFIDDVVSAVLRASYGQSAAMPAFAGAMSLAGAQQSLW  
SVEGGNKLVCGLLKLTKANVIHATVTSVTLHSTEGKALYQVAYENEVGNSSDFYDIVVI

ATPLHLDNSSSNLTFAGFHPPIDDVQGSFQPTVVSLVHGYLNSSYFGFPDPKLPFFANIL  
TTDFPSFFCTLDNICPVNISASFRRKQPQEAAVWRVQSPKPLFRTQLKTLFRSYYSVQTA  
EWQAHPLYGSRPTLPRFALHDQLFYLNLEWAASSVEVMAVAANKVALLAYNRWYQDLDK  
IDQKDLMHKVKTEL

>sp|Q14123|PDE1C\_HUMAN Calcium/calmodulin-dependent 3',5'-cyclic nucleotide  
phosphodiesterase 1C OS=Homo sapiens GN=PDE1C PE=1 SV=1

MESPTKEIEEFESNSLKYLQPEQIEKIWLRLRGLRKYKTSQRLRSLVKQLERGEASVVD  
LKKNLEYAATVLESVYIDETRRLDTEDELSDIQSDAVPSEVRDWLASTFTRQMGMMLRR  
SDEKPRFKSIVHAVQAGIFVERMYRRTSNMVGLSYPPAVIEALKDVKWSFDVFSLEAS  
GDHALKFIFYELLTRYDLISRFKIPISALVSFVEALEVGYSKHKNPYHNLMAADVTQTV  
HYLLYKTGVANWLTELEIFAIIFSAAIHDYEHTGTTNNFHIQTRSDPAILYNDRSVLENH  
HLSAAYRLLQDDEEMNILINLSKDDWREFRTLVIEMVMATDMSCHFQQIKAMKTALQQPE  
AIEKPKALSLMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAELGLPFSPLCDRKS  
TMVAQSQVGFIDFIVEPTFTVLDTMTEKIVSPLIDETSQTGGTGQRRSSLNSISSDAKR  
SGVKTSGSEGSAPINNSVISVDYKSFKATWTEVVHINRERWRAKVPKEEKAKKEAEEKAR  
LAAEEQQKEMEAKSQAEEGASGKAEKKTSGETKNQVNGTRANKSDNPRGKNSKA EKSSGE  
QQQNGDFDKGKNKTDKKDHSNIGNDSKKTGDKQRSHGSPAPSTSSTCRLTLPVIKPLR  
HFKRPAYASSYAPSVSKTDEHPARYKMLDQRIKMKKIQNISHNWNRK

>sp|P27815|PDE4A\_HUMAN cAMP-specific 3',5'-cyclic phosphodiesterase 4A OS=Homo sapiens  
GN=PDE4A PE=1 SV=3

MEPPTVPSESLSLPGPREGQATLKPPPQHLWRQPRTPIRIQQRGYSDSAERAERERQ  
PHRPIERADAMDTSDRPLRTTRMSWPSSFHGTGTGSGGAGGGSSRRFEAENGPTSPGR  
SPLDSQASPLVLHAGAATSQRRESFLYRSDSDYDMSPKTMSRNSSVTSEAHAEDLIVTP  
FAQVLASLRSVRSNFSLLTNVPVPSNKRSPGGPTPVCKATLSEETCQQLARETLEELDW  
CLEQLETMQTYRSVSEMASHKFKRMLNRELTHLSEMSRSGNQVSEYISTTFLDKQNEVEI  
PSPTMKEREKQQAPRPRPSQPPPPVPHLQPMQITGLKKLMHSNSLNSNIPRFGVKTD  
QEELLAQELENLNKWLNIFCVSDYAGGRSLTCIMYMIFQERDLLKKFRIPVDTMVTYML  
TLEDHYHADVAYHNSLHAADVLQSTHVLLATPALDAVFTDLEILAALFAAAIHDVDHPGV  
SNQFLINTNSELALMYNDESVLENHHLAVGFKLLQEDNCDIFQNLKRQRQSLRKMVIDM  
VLATDMSKHMTLLADLKTMTVETKVTSSGVLLLDNYSRIQVLRNMVHCADLSNPTKPLE  
LYRQWTDRIAEFFQQGDRERERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWADL  
VHPDAQEILDLTLEDNRDWYSAIRQSPSPPEEESRGPGHPPLPDKFQFELTEEEEEEE  
ISMAQIPCTAQEALTAQGLSGVEEALDATIWEASPAQESLEVMAQEASLEAELEAVYLT  
QQAQSTGSAPVAPDEFSSREEFVAVSHSSPSALALQSPLLPARTLSVSEHAPGLPLP  
STAAEVEAQREHQAARACACAGTFGEDTSALPAPGGGGSGDPT

>sp|Q96JY6|PDLI2\_HUMAN PDZ and LIM domain protein 2 OS=Homo sapiens GN=PDLIM2 PE=1 SV=1

MALTVDVAGPAPWGFRITGGRDFHTPIMVTKVAERGKAKDADLRPGDIIVAINGESAEGM  
LHAEAQSKIRQSPSPRLRLQLDRSQATSPGQTNGDSSLEVLATRFQGSVRTYTESQSSLRS  
SYSSPTSLSPRAGSPFSPSSSSLTGEAAISRSFQSLACSPGLPAADRLSYSGRPGSRQ  
AGLGRAGDSAVLVLPSPGPRSSRPSMDSEGGSLLLDEDESEVFKMLQENREGRAAPRQSS  
SFRLQEALEAEERGGTPAFLPSSLPQSSLPASRALATPPKLHTCEKCSTSIANQAVRI  
QEGRYRHPGCYTACDGLNLKMRGHFWVGDELYCEKHARQRYAPATLSSRA

>sp|Q53GG5|PDLI3\_HUMAN PDZ and LIM domain protein 3 OS=Homo sapiens GN=PDLIM3 PE=1 SV=1

MPQTVILPGPAPWGFRLSGGIDFNQPLVITRITPGSKAAAANLCPGDVILAIDFGTESM

THADAQDRIKAAAHQLCLKIDRGETHLWSPQVSEDGKAHPFKINLESEPQDGNIFEHKN  
IRPKPFVIPGRSSGCSTPSGIDCGSGRSTPSSVSTVSTICPGDLKVAAKLAPNIPLMEL  
PGVKIVHAQFNTPMQLYSDDNIMETLQGQVSTALGETPLMSEPTASVPPESDVYRMLHDN  
RNEPTQPRQSGSFRVLQGMVDDGSDDRPAGTRSVRAPVTKVHGGSGGAQRMPLCDKCGSG  
IVGAVVKARDKYRHECFVCADCNLNLKQKGYFFIEGELYCETHARARTKPPEGYDVTL  
YPKA

>sp|Q6A1A2|PDPK2\_HUMAN Putative 3-phosphoinositide-dependent protein kinase 2 OS=Homo sapiens GN=PDPK2P PE=5 SV=1

MVRTQTESSTPPGIPGSGRQGPAMDGTAAEPRPGAGSLQHAQPPQPRKKRPEDFKFGKI  
LGEGSFSTVVLARELATSREYAIKILEKRHIKENKVPYVTRERDVMSRLDHPFFVKLYF  
TFQDDEKLYFGLSYAKNGELLYIRKIGSFDETCTRFYTAIEIVSALEYLHGKGI IHRDLK  
PENILLNEDMYIQITDFGTAKVLSPEKQARANSFVGTAQVVSPELLTEKSACKSSDLWA  
LGCIIYQLVAGLPPFRAGNEYLIFQKIIKLEYDFPEKFFPKARDLVEKLLVLDA TKRLGC  
EEMEGYGLKAHPFESVTWENLHQQTTPKLTAYLPAMSEDDCYGNVSWPGWRARQVA  
LGPPCTGLHARAPDPRVICSRKGRVSVPLRQACWWL

>sp|Q8NCN5|PDPR\_HUMAN Pyruvate dehydrogenase phosphatase regulatory subunit, mitochondrial OS=Homo sapiens GN=PDPR PE=1 SV=2

MMFYRLLSIVGRQRASPGWQNWSSARNSTSAAEARSMALPTQAQVVICGGGITGTSVAYH  
LSKMGWKDIVLLEQGRLAAGSTRFCAGILSTARHLTIEQKMADYSNKLYYQLEQETGIQT  
GYTRTGSIFLAQTQDRLISLKRINAGLNVIGIPSEIISPCKVAELHHLLNVHDLVGAMHV  
PEDAVVSSADVALALASAASQNGVQIYDRTSVLHVMVKKGQVTGVETDKGQIECQYFVNC  
AGQWAYELGLSNEEPVSIPLHACEHFYLLTRPLETPLQSSTPTIVDADGRIYIRNWQGGI  
LSGGFEKNPKPIFTEGKNQLEIQNLQEDWDHFEPLSSLLRRMPELETLEIMKLVNCPET  
FTPDMRCIMGESPAVQGYFVLAMNSAGLSFGGGAGKYLAEWVHGYPSENVWELDLKRF  
GALQSSRTFLRHRVMEVMPMLMYDLKVPRWDFQTGRQLRTSPLYDRDLAQGARWMEKHGFE  
RPKYFVPPDKDLLALEQSKTFYKPDWFDIVESEVKCCKEAVCVIDMSSFTKFEITSTGDQ  
ALEVLQYLFSDNLDVPVGHIVHTGMLNEGGGYENDCSIARLNKRSFFMISPTDQQVHCWA  
WLKKHMPKDSNLLLEDVTWKYTALNLIGPRAVDVLSSELYAPMTPDHFP SLFC KEMSVGY  
ANGIRVMSMTHTGEPGFMLYIPIEYALHVVYNEVMSVGQKYGIRNAGYYALRSLRIEKFFA  
FWGQDINNLTTPLECGRESRVKLEKGMDFIGRDALLQKQNGVYKRLTMFILDDHDSLDL  
LWPWWGEPIYRNGQYVGKTTSSAYSYSLE RHVCLGFVHN FSED TGEEQVVTADFINRGEY  
EIDIAGYRFQAKAKLYPVASLFTQKRRKDDMELSDLHGK

>sp|P68402|PA1B2\_HUMAN Platelet-activating factor acetylhydrolase IB subunit beta OS=Homo sapiens GN=PAFAH1B2 PE=1 SV=1

MSQGDSNPAAIPHAIEDIQGDDRWMSQHNRFVLDCKDKEPDVLFVGD SMVQLMQQYEIWR  
ELFSPLHALNFGIGGDTTRHVLWRLKNGELENIKPKVIVVWGTNNHENTAEVAGGIEA  
IVQLINTRQPQAKIIIVLGLLPRGEKPNPLRQKNAKVNLKVS LPKLANVQLLDTDGGFV  
HSDGAISCHDMDFDLHLTG GGYAKICKPLHELIMQLLEETPEEKQT TIA

>sp|Q9BZM2|PA2GF\_HUMAN Group IIF secretory phospholipase A2 OS=Homo sapiens GN=PLA2G2F PE=1 SV=1

MKKFFTVAIAGSVLSTA HGSLLNLKAMVEAVTGRSAILS FVG YGCY CGLGGRGQPKDEV  
DWCCHAHDCCYQELFDQ GCHPYVDHYDHTIENNTEIVCSDLNKTECDKQTCMCDKNMVLC  
LMNQTYREEYRGFLNVYCQGPTPNCSIYEPPEEVTCSHQSPAPPAPP

>sp|P11940|PABP1\_HUMAN Polyadenylate-binding protein 1 OS=Homo sapiens GN=PABPC1 PE=1 SV=2

MNPSAPSYPMASLYVGDLHPDVTTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYVNFQ  
QPADAERALDTMNFVDVIGKGPVRIMWSQRDPSLRKSGVGNIFIKNLDKSIDNKALYDTFS  
AFGNILSCKVVCDENGSKGYGFVHFETQEAERAIEKMNGMLLNDRKVFVGRFKSRKERE  
AELGARAKEFTNVYIKNFGEDMDDERLKDLFGKFGPALSVKVMTDESGKSKGFGFVSFER  
HEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFEQMKQDRITRYQGVNLYVKN  
LDDGIDDERLRKEFSPFGTITSKVMMEGGRSKGFGVCFSSPEEATKAVTEMNGRIVAT  
KPLYVALAQRKEERQAHLTNQYMQRMASVRAVPNPVINPYQPAPPSGYMAAIPQTQNR  
AYYPPSQIAQLRPSRWTAQGARPFPQNMPGAIRPAAPRPPFSTMRPASSQVPRVMSTQ  
RVANTSTQTMGPRPAAAAAATPAVRTVPQYKYAAGVRNPQQHLNAQPQVTMQQPAVHVQ  
GQEPLTASMLASAPPQEQQMLGERLFPLIQAMHPTLAGKITGMLEIDNSELHMLESP  
ESLRSKVDEAVAVLQAHQAKEAAQKAVNSATGVPTV

>sp|Q9UKS6|PACN3\_HUMAN Protein kinase C and casein kinase substrate in neurons protein 3 OS=Homo sapiens GN=PACSIN3 PE=1 SV=2

MAPEEDAGGEALGGSFWEAGNYRRTVQRVEDGHRLCGDLVSCFQERARIEKAYAQQADW  
ARKWRGTVEKGPQYGTLEKAWHAFFTAERLSALHLEVREKLQGGDSERVRAWQRGAHR  
PVLGGFRESRAAEDGFRKAQKPWLKRLKEVEASKKSYHAARKDEKTAQTRESHAKADSAV  
SQEQLRKLQERVERCAKEAEKTKAQYEQTLAELHRYTPRYMEDMEQAFETCQAAERQRL  
FFKDMLLTLHQHLDLSSSEKFHELHRDLHQGIEAASDEEDLRWWRSTHGPGMAMNWPQFE  
EWSLDTQRTISRKEKGGRSPDEVTLTSIVPTRDGTAPPPQSPGSPGTGQDEEWSDEESPR  
KAATGVRVRALYDAGQEADELSFRAGEELKMSSEDEQWCQGLQSGRIGLYPANYVE  
CVGA

>sp|Q99487|PAFA2\_HUMAN Platelet-activating factor acetylhydrolase 2, cytoplasmic OS=Homo sapiens GN=PAFAH2 PE=1 SV=1

MGVNQSVGFPPVTGPHLVGCGDVMEGQNLQGSFFRLFYPCQKAEETMEQPLWIPRYEYCT  
GLAEYLQFNKRCGGLLFNLAVGSCRLPVSWNGPFKTKDSGYPLIIFSHGLGAFRTLISAF  
CMELASRGFVVAPEHRDRSAATTYFCKQAPEENQPTNESLQEEWIPFRRVEEGEKEFHV  
RNPQVHQRVSECLRVLKILQEVTAQTQVFNILPGGLDMLTKGNIDMSRVAVMGHSFGGA  
TAILALAKETQFRCAVALDAWMFPLERDFYPKARGPVFFINTEKFQTMESVNLKKICAQ  
HEQSRIITVLGSHRSQTDFAFVTGNLIGKFFSTETRGSLDPYEGQEVMRAMLAFQKH  
LDLKEDYNQWNNLIEGIGPSLTPGAPHLSSL

>sp|O75914|PAK3\_HUMAN Serine/threonine-protein kinase PAK 3 OS=Homo sapiens GN=PAK3 PE=1 SV=2

MSDGLDNEEKPPAPPLRMNSNRDSSALNHSSKPLPMAPEEKNKKARLRSIFPGGGDKTN  
KKKEKERPEISLPSDFEHTIHVGFDVATGEFTPDLYGSQMCPGKLPEGIPEQWARLLQTS  
NITKLEQKKNPQAVLDVLKFYDSKETVNNQKYSFTSGDKSAHGYYAAHPSSTKTASEPP  
LAPPVSEEEDEEEEEEDENEPPIAPRPEHTKSIYTRSVVESIASPAVPNKEVTPPSA  
ENANSTLYRNTDRQRKSKMTDEEILEKLRSIVSVGDPKKKYTRFEKIGQGASGTVYTA  
LDIATGQEVAIKQMNLLQQPKKELINEILVMRENKNPNIVNYLDSYLVGDELWVMEYL  
AGGSLTDVVTETCMDEGQIAAVCRECLQALDFLHSNQVIHRDIKSDNILLGMDGSVKLTD  
FGFCAQITPEQSKRSTMGTPYWMAPVTRKAYGPKVDIWSLGIMAIEMVEGEPPYLNE  
NPLRALYLIATNGTPELQNPERSAVFRDFLNRCLMDVDRRGSAKELLQHPFLKLAKPL  
SSLTPLIIAAKEAIKNSSR

>sp|Q8WX93|PALLD\_HUMAN Palladin OS=Homo sapiens GN=PALLD PE=1 SV=3

MSGTSSHESFYDSLSDMQEESKNTDFFPGLSAFLSQEEINKSLDLARRAIADSETEDFDS  
EKEISQIFSTSPASLCEHPSHKETKLGEHASRRPQDNRSTPVQPLAEKQTKSISSPVSKR  
KPAMSPLLTRPSYIRSLRKAERGAKTPTSTNVKPKTPHQKGGPQSQLCDKAANLIEELT  
SIFKAAKPRNRSPNGESSPDGYSKPNQPSALLSASASQSPMEDQGEMEREVKSPGAR  
HCYQDNQDLAVPHNRKSHPPHSAHFPAAPRFIQKLRSQEVAEGRVYLECRVTGNPTP  
RVRWFCEGKELHNTPDIIHQEGDLHTLIIEAFEDDTGRYTCLATNPSGSDTTSAEVF  
IEGASSTDSDSESLAFKSRAGAMPQAQKKTTSVSLTIGSSSPKTGVTTAVIQPLSVPVQQ  
VHSPTSYLCRDPDGTTFAYFPVFTKELQNTAVAEGQVVLECRVRGAPPLQVQWFRQGSE  
IQDSPDFRILQKKPRSTAEPEEICTLVIAETFPEDAGIFTCSARNDYGSATSTAQLVVT  
ANTENCSEYEMGESNNDHFQHFPPPPPILETSSLELASKKPSEIQQVNNPELGLSRAALQ  
MQFNAAERETNGVHPSRGVNLINGKANSNKSLLPTPAVLLSPTKEPPPLAKPKLDPLKL  
QQLNQIRLEQEAGARQPPAPRSAPPSPFPFPPPAFPELAACTPPASPEPMSALASRSA  
PAMQSSGSFNYPKQFIAAQNLPASGHGTPASSPSSSLPSPMSPTPRQFGRAPVPPF  
AQPFGAEPAPWGSSSPSPPPPPPVFSPTAAFPVPDVFLPPPPPLPSPGQASHCSSP  
ATRFQHSQTPAAFLSALLPSQPPPAAVNALGLPKGVTPAGFPKKASRTARIASDEEIQGT  
KDAVIQDLERKLRFKEDLLNNGPRLTYEERMARRLLGADSATVFNIEPEEETANQEYK  
VSSCEQRLISEIEYRLERSPVDESQDEVQYGDVPVENGMAPPFEMKLKHYKIFEGMPVTF  
TCRVAGNPKPKIYWFKDGKQISPKSDHYTIQRDLDTGCSLHTTASTLDDGNYTMAANP  
QGRISCTGRMLVQAVNQGRSPRSPSGHPHVRPRSRSDSGDENEPQERFFRPHFLQA  
PGDLTVQEGKLCRMDCKVSGLPTPDLQWLDGKVPVPDSAHKMLVRENGVHSLIIEPVTS  
RDAGIYTCIATNRAGQNSFSLELVAAKEAHKPPVFIKQLQNTGVADGYVVRLECRVLGV  
PPPQIFWKKENESLTHSTDRVSMHQDNHGYICLLIQGATKEDAGWYTVSAKNEAGIVSCT  
ARLDVYTQWHQSQSTKPKKVRPSASRYAALSDQGLDIKAAFQPEANPSHLTLNTALVES  
EDL

>sp|Q9BZ23|PANK2\_HUMAN Pantothenate kinase 2, mitochondrial OS=Homo sapiens GN=PANK2 PE=1 SV=3

MRRLLGPFHPRVHWAAPSLSSGLHRLFLRGTRIPSSSTLSPPRHDSLSLDGGTVNPPRV  
REPTGREAFGPSASSDWLPAWRNNGRGRPRARLCSGWTAAEEARRNPTLGGLLGRQRL  
LLRMGGGRLGAPMERHGRASATSVSSAGEQAAGDPEGRRQEPLRRRASSASVPAVGASAE  
GTRDRDLGSGSPTSYSRQRVESLRKKRPLFPWFGLDIGGTLVKLVYFEPKDITAEESSE  
EVESLSKIRKYLTSNAVYGSTGIRDVHLEKDLTLGCRKGNLHFIKPTHTDMPAFIQMGR  
DKNFSSLHTVFCATGGGAYKFEQDFLTIGDLQLCKLDELDCIKGILYIDSVGFNGRSQC  
YYFENPADSEKCKLPFDLKNPYPLLLVNIGSGVSIKAVYSKDNKRVGTGSLGGGTFFG  
LCCLLTGCTTFEEALEMASRGDSTKVDKLVVDIYGGDYERFGLPGWAVASSFGNMMSKEK  
REAVSKEDLARATLITITNIGSIARMCALNENINQVVFVGNFLRINTIAMRLLAYALDY  
WSKGQLKALFSEHEGYFGAVGALLELLKIP

>sp|Q6QHF9|PAOX\_HUMAN Peroxisomal N(1)-acetyl-spermine/spermidine oxidase OS=Homo sapiens GN=PAOX PE=1 SV=3

MESTGSVGEAPGGPRVLVVGGGIAGLGAAQRLCGHSAPPHLRVLEATARAGGRIRSERCF  
GGVVEVGAHWIHGPSRGNPVFQLAAEYGLLGEKELSQENQLVETGGHVGLPSVSYASSGT  
SVSLQLVAEMATLFYGLIDQTRFLHAAETPVPSVGEYKKEIGQHVARLCGHSAPPHLR  
VLEATARAGGRIRSERCFGGVVEVGAHWIHGPSRGNPVFQLAAEYGLLGEKELSQENQLV  
ETGGHVGLPSVSYASSGASVSLQLVAEMATLFYGLIDQTRFLHAAETPVPSVGEYKKE

IGQHVAGWTEDEETRKLKLAVLNSFFNLECCVSGTHSMDLVALAPFGEYTVLPGLDCTFS  
KGYQGLTNCMAALPEDTVVFEKPVKTIHWNGSFQEAAFPGETFPVSVECEDGDRFPAHH  
VIVTVPLGFLREHLDTFFDPPLPAEKAEAIRKIGFGTNNKIFLEFEEPFWEPCQLIQLV  
WEDTSPLEDAAPQLDAWFRKLIGFVVLPAFASVHVLGCFIAGLESEFMETLSDEEVLLC  
LTQVLRRTGNPRLPAPKSVLSRWHSAPYTRGSYSYVAVGSTGGDLDLAQPLPADGAG  
AQLQILFAGEATHRTFYSTTHGALLSGWREADRLLSLWAPQVQQPRPRL

>sp|Q9BUH6|PAXX\_HUMAN Protein PAXX OS=Homo sapiens GN=C9orf142 PE=1 SV=2

MDPLSPPLCTLPPGPEPPRFVCYCEGESGEGDRGGFNLYVTDAAELWSTCFTPDSLAAAL  
KARFGLSAAEDITPRFRAACEQQAVALTLQEDRASLTLSGGPSALAFDLKVPGEAAPR  
LRALTLGLAKRVWSLERRLAAAEETAVSPRKSPPAGPQLFLPDPDPQGGPGPGVRRRC  
PGESLINPGFKSKKPAGGVDFDET

>sp|Q9Y5H8|PCDA3\_HUMAN Protocadherin alpha-3 OS=Homo sapiens GN=PCDHA3 PE=2 SV=1

MLFSWREDPGAQCLLLSLLLLAASEVSGQLHYSVSEEAKHGTFVGRIAQDLGLELAELV  
PRLFRVASKRHGDLLEVNLQNGILFVNSRIDREELCGRSAECSIHLEIVDRPLQVFHVE  
VEVKDINDNAPVFPMAVKNLFISESQPGSRFSLEGASDADIGTNSLLTYSLDSTEYFTL  
DVKRNDDEEIKSLGLVLKKNLNREDTPKHILLITAIDGGKPELTGTTQLKITVLDVNDNAP  
AFERTIYKVRLENAPNGTLVTVTNATDLDEGVNKDIAYSFNTDMSADILSKFHLDPVNG  
QISVKNIDFEESKSYEIQVEATDKGNPPMSDHCTVLLIIVDINDNPVELVIQSLSLPVL  
EDSPLSTVIALISVSDRDSGVNGQVTCSLTPHVPFKLVSTFKNYISLVDSPLDRESVSA  
YELVVTARDGGSPSLWATASVSVEADVNDNAPAFSQSEYTVFVKENNPFGCHIFTVSAR  
DADAQENALVSYSLVERRVGERALSSYVSVHAESGKVYALQPLDHEELELLQFQVSARDA  
GVPPLGSNVTLQVFVLDENDNAPALLMPRVGGIGGAVSELVPRSVGAGHVVAKVRAVDAD  
SGYNAWLSYELQPGTGGARIPFRVGLYTGEISTTRALDEVDAPRHRLVLVKDHGEPSTL  
ATATVLVSLVESGQAPKASSQASAGATGPEAALVDNVYLIVAICAVSSLLVLTLLLYTA  
LRCSAPPTEGDCGPKPTLVCSSAVGWSYSQQRQQRVCSGEGLPKTDLMAFSPSLPPCP  
ISRDRREEKQDQVDVLSAKPRQPNPDWRYASLRAGMHSSVHLEEAGILRAGPGGPDQQWP  
TVSSATPEPEAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIISIR  
QEPTNSQIDKSDFITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

>sp|Q9Y5F2|PCDBB\_HUMAN Protocadherin beta-11 OS=Homo sapiens GN=PCDHB11 PE=2 SV=1

MENQGTRTQQIRQVLLLFLVLLGMSQAGSETWSFSVAEEMQSGSFVGNLAKDLGLKVRELS  
SRGARVVSNDKKQLQLDINTGDLTSETLDREELCGSIEPCVLHLQVLMQNPTQFLQIE  
LQVRDINDHSPIFSEKQMLLEIPENSPVGAVFLLESADLDVGINAVKSYTISPNSHFHI  
KMRVIPDNRKYPELVLDKALDYEELPELSFILSALDGGSPPRSGTALVRVVVDINDNSP  
EFEQAFYEVKIRENSILGSLILIVSAWDLDSGTNGEICYTFSHASEDIRKTFEINQKSGE  
ITLRAPLDFETIESYSIIIIQATDGGGLFGKSTVIIHVIDVNDNAPEITVSSITSPIPENT  
PETVVMVFSIQDIDSGDNGRIVCSIPEDLPFVLKSSVENYYTLETERPLDRESTAEYNIT  
ITVTDLGIPLRKTEHNTTVLVSDVNDNAPTFTQTSYTLFVRENNSPALHIGSVSATDRDS  
GTNAQVNYSLPPQDLHLPLASLVSINTDNGHLFALRSLDYEALQAFDFRVGATDRGSPA  
LSSEALVRVLVDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKHRLVVLVKDNGEPPRSATATLQV  
LLVDGFSQPYLPLPEAAPAQQAQDSLTVYLVVALASVSSLFLFSVLLFVAVRLCRRSRAA  
SVGSCSVKPGFPFGLVDVSGTGTLSQSYQYEVCLTGGSETNEFKFLKPVIPNIQAKGLG  
KNSEENSTFRNSFGFNF

>sp|Q9NRJ7|PCDBG\_HUMAN Protocadherin beta-16 OS=Homo sapiens GN=PCDHB16 PE=1 SV=3

MEIGWMHNRQRQVLVFFVLLSLSGAGAE LGSYSVVEETERGSFVANLGKDLGLGLTEMS  
TRKARIISQGNKQHLQLKAQTGDLLINEKLDREELCGPTEPCILHFQVLMENPLEIFQAE  
LRVIDINDHSPMFTEKEMILKIPENSPLGTEFPLNHALDLVDGSNNVQYKISPSSHFRV  
L IHEFRDGRKYPELVLDKELDREEEPQLRLTLTALDGGSPPRSGTAQVRIEVDINDNAP  
EFEQPIYKVQIPENSPLGSLVATVSARDLDGGANGKISYTLFQPSEDI SKTLEVNPMTGE  
VRLRKQVDFEMVTSYEVRIKATDGGGLSGKCTLLLQVVDVNDNPPQVMSALTSP IIPENS  
PEIVVAVFSVSDPDSGNNGKTISSIQEDLPFLKPSVKNFYTLVTERALDREARAEYNIT  
LTVTDMGTPRLKTEHNITVQISDVNDNAPTFTQTSYTLFVRENNSPALHIGSVSATDRDS  
GTNAQVTYSLLPPQDPHLPLASLV SINADNGHLFALRSLDYEALREFEFVRSATDRGSPA  
LSSEALVRVLVLDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKQRLVVLVKDNGEPPRSATATLHV  
LLVDGFSQPFLPLPEAAPGQTQANSLTVYLVVALASVSSLFLFSVLLFVAVRLCRRSRAA  
SVGRCSMPEGPFPGRLVDVSGTGTLSQSYQYEVCLTGGSETSEFKFLKPIIPNFSP

>sp|Q9Y5H4|PCDG1\_HUMAN Protocadherin gamma-A1 OS=Homo sapiens GN=PCDHGA1 PE=2 SV=1

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>sp|Q9Y5G9|PCDG4\_HUMAN Protocadherin gamma-A4 OS=Homo sapiens GN=PCDHGA4 PE=2 SV=1

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>sp|Q9Y5G8|PCDG5\_HUMAN Protocadherin gamma-A5 OS=Homo sapiens GN=PCDHGA5 PE=2 SV=1

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>sp|Q9Y5G6|PCDG7\_HUMAN Protocadherin gamma-A7 OS=Homo sapiens GN=PCDHGA7 PE=2 SV=1

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>sp|P12004|PCNA\_HUMAN Proliferating cell nuclear antigen OS=Homo sapiens GN=PCNA PE=1  
SV=1

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>sp|095613|PCNT\_HUMAN Pericentrin OS=Homo sapiens GN=PCNT PE=1 SV=4

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>sp|Q6UW60|PCSK4\_HUMAN Proprotein convertase subtilisin/kexin type 4 OS=Homo sapiens  
GN=PCSK4 PE=1 SV=2

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>sp|Q96RV3|PCX1\_HUMAN Pecanex-like protein 1 OS=Homo sapiens GN=PCNX1 PE=1 SV=2

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>sp|Q63HM2|PCX4\_HUMAN Pecanex-like protein 4 OS=Homo sapiens GN=PCNX4 PE=1 SV=4

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>sp|Q13258|PD2R\_HUMAN Prostaglandin D2 receptor OS=Homo sapiens GN=PTGDR PE=2 SV=2

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>sp|Q9BUL8|PDC10\_HUMAN Programmed cell death protein 10 OS=Homo sapiens GN=PDCD10 PE=1  
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>sp|Q53EL6|PDCD4\_HUMAN Programmed cell death protein 4 OS=Homo sapiens GN=PDCD4 PE=1 SV=2

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HELVEYAIIMVLESTGESTFKMILDLKSLWKSSTITVDQMKRGYERINEIPDINLDVP  
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>sp|Q8N4E4|PDCL2\_HUMAN Phosducin-like protein 2 OS=Homo sapiens GN=PDCL2 PE=1 SV=2

MQDPNEDTEWNDILRDFGILPPKEESKDEIEEMVLRLQKEAMVKPFKMTLAQLKEAEDE  
FDEEDMQAVETYRKKRLQEWKALKKKQKFGELREISGNQYVNEVTNAEEDVWVVIHLYRS  
SIPMCLLVNQHLSSLARKFPETKFVKAIVNSCIQHYHDNCLPTIFVYKNGQIEAKFIGII  
ECGGINLKLEELWKLAEVGAIQTDLEENPRKDMVDMVSSIRNTSIHDDSDSSNSDNDT  
K

>sp|Q9H2J4|PDCL3\_HUMAN Phosducin-like protein 3 OS=Homo sapiens GN=PDCL3 PE=1 SV=1

MQDPNADTEWNDILRKKGILPPKESLKEEEAEQRIQQSVVKTYEDMTLEELEDHE  
DEFNEEDERAIEMYRRRLAEWKATKLNKFGEVLEISGKDYVQEVTKAGEGLWVILHLY  
KQGIPLCALINQHLSGLARKFPDVKFIKAISTTCIPNYPDRNLPTIFVYLEGDIKAQFIG  
PLVFGGMNLTRDELEWKLSESGAIMTDLEENPKPIEDVLLSSVRRSVLMKRDSSEGD

>sp|Q9BRP1|PDD2L\_HUMAN Programmed cell death protein 2-like OS=Homo sapiens GN=PDCD2L  
PE=1 SV=1

MAAVLKPVLLGLRDAPVHGSPTPGAWTASKLGGIPDALPTVAAPRPVCQRCGQPLALVV  
QVYCPLEGSPFHRLHVFACACPGCSTGGARSWKVFRSQCLQVPEREAQDAKQGNLAA  
EDWCEGADDWGSDEEGPSPQFTLDFGNDASSAKDVDWTARLQDLRLQDAVLGAHPVPP  
GLPLFLPYIICVADEDDYRDFVNLDHAHSLLRDYQQREGIAMDQLLSQSLPNDGDEKEYEK  
TIIKSGDQTFYKFMKRIACQEQLIRYSWSGEPLFTCPTSEVTELPACSQCGGQRIFEF  
QLMPALVSMLKSANLGLSVEFGTILVYTCEKSCWPPNHQTPMEEFCCIIEQDPDELLFK

>sp|Q9HCR9|PDE11\_HUMAN Dual 3',5'-cyclic-AMP and -GMP phosphodiesterase 11A OS=Homo sapiens GN=PDE11A PE=1 SV=2

MAASRLDFGEVETFLDRHPELFEDYLMRKGKQEMVEKWLQRHSQQGALGPRPSLAGTSS  
LAHSTCRGGSSVGGGTGPNGSAHSQPLPGGGDCGGVPLSPSWAGSGRGDGNLQRRASQKE  
LRKSFARSKAIHVNRTYDEQVTSRAQEPLSSVRRRALLRKASSLPPTTAHILSALLESRV  
NLPRYPPTAIDYKCHLKKHNERQFFLELVKDIDNDLDTLSYKILIFVCLMVDADRCSL  
FLVEGAAAGKKTLSVKFFDVHAGTPLLPCSSSTENSNEVQVPWGKGIIGYVGEHGETVNIP  
DAYQDRRFNDEIDKLTGYKTKSLLCMPISRSDGEIIGVAQAINKIPEGAPFTEDDEKVMQ  
MYLPFCGIAISNAQLFAASRKEYERSRALLEVVNDLFEEQTDLEKIVKKIMHRAQTLLKC  
ERCSVLLEDIESPVVKFTKSFELMSPKCSADAENSFKESMEKSSYSDWLINNSIAELVA  
STGLPVNISDAYQDPRFDAEADQISGFHIRSVLCVPIWNSNHQIIGVAQVLNRLDGKPF  
DADQRLFEAFVIFCGLGINNTIMYDQVKKSWAKQSVALDVL SYHATCSKA EVDKFAANI  
PLVSELAIDDIHFDDFSLDVDAMITAALRMFMELGMVQKFKIDYETLCRWLLTVRKNYRM  
VLYHNWRHAFNVCQLMFAMLTAGFQDILTEVEILAVIVGCLCHDLDRGTNNAFQAKSG  
SALAQLYGTSATLEHHHFNHAVMILQSEGHNIFANLSSKEYSDLMQLLKQSILATDLTLY  
FERRTEFFELVSKGEYDWNINKNHRDIFRSMLMTACDLGAVTKPWEISRQVAELVTSEFFE  
QGDRELERLELKTPSAIFDRNRKDELPRQLLEWIDSICMPYQALVKVNVKLKPM LDSVAT  
NRSKWEELHQKRLLASTASSSPASVMVAKEDRN

>sp|Q96DC9|OTUB2\_HUMAN Ubiquitin thioesterase OTUB2 OS=Homo sapiens GN=OTUB2 PE=1 SV=2

MSETSNLISEKCDILSILRDHPENRIYRRKIEELSKRFTAIRKTKGDGNCFYRALGYSY  
LESLLGKSREIFKFKERVLQTPNDLLAAGFEEHKFRNFFNAFYSVVELVEKDGSVSLLK  
VFNDQSASDHIVQFLRLLTSAFIRNRADFFRHFIDEEMDIKDFCTHEVEPMATECDHIQI  
TALSQALSIALQVEYVDEMDTALNHHVFPEAATPSVYLLYKTSHYNILYAADKH

>sp|O15350|P73\_HUMAN Tumor protein p73 OS=Homo sapiens GN=TP73 PE=1 SV=1

MAQSTATSPDGGTTFEHLWSSLEPDSTYFDLPQSSRGNNVVGTDSSMDVFHLEGMTTS  
VMAQFNLLSSTMDQMSSRAASAPYTPPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSN  
TDYPGPHHFEVTFQSSSTAKSATWTYSPLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPV  
YKKAHVTDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNLSQYVDDPVTGRQSVVVPY  
EPPQVGTEFTTILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGR  
DRKADEHYREQQALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVR  
GRENFEILMKLKESLELMELVPQPLVDSYRQQQQLLRPSHLQPPSYGPVLSPMNVKHGG  
MNKLPSVNQLVGPPPHSSAATPNLGPVPGMLNNHGHAVPANGEMSSSHSAQSMVSGSH  
CTPPPPYHADPSLVSFLTGLGCPNCIEYFTSQGLQSIYHLQNLTIEDLGALKIPEQYRMT  
IWRGLQDLKQGHDYSTAQQLLRSSNAATISIGGSGELQRQVRMEAVHFRVRHTITIPNRG  
GPGGGPDEWADFGFDLPDCKARKQPIKEEFTEAEIH

>sp|Q6VY07|PACS1\_HUMAN Phosphofurin acidic cluster sorting protein 1 OS=Homo sapiens GN=PACS1 PE=1 SV=2

MAERGGAGGGPGGAGGGSGRQSGVAQSPQPPPPQQQQQPPQPTPPKLAQATSSSSST  
SAAAASSSSSSTSTMAVAVASGAPPGGPGPGRTPAPVQMNLATWEVDRSSSSCVPR  
LFSLTLLKLVMLKEMDKDLNSVVIKVLQGSKRILRSNEIVLPASGLVETELQLTFSLYP  
HFLKRDANKLQIMLQRRKRYKNRTILGYKTLAVGLINMAEVMQHPNEGALVGLHSNVKD  
VSVPVAEIKIYSLSSQPIDHEGIKSKLSDRSPDIDNYSEEEESFSSEQEGSDDPLHGQD  
LFYEDEDLRKVKKTRRKLTTSAITRQPNIKQKFVALLKRFKVSDEVGFGLEHVSREQIR  
EVEEDLDELYSLEMYNPSDSGPEMEETESILSTPKPKLPFFEGMSQSSSQTEIGSLNS

KGSLGKDTTSPMELAALEKIKSTWIKNQDDSLTETDTLEITDQDMFGDASTSLVVPEKVK  
TPMKSSKTDLQGSASPSKVEGVHTPRQKRSTPLKERQLSKPLSERTNSSDSERSPDLGHS  
TQIPRKVVYDQLNQILVSDAALPENVILVNTTDWQGQYVAELLQDQRKPVVCTCSTVEVQ  
AVLSALLTRIQRNCNCSMPRPVKVAAVGGQSYLSSILRFFVKSLANKTSDWLGYMRFL  
I IPLGSHPVAKYLGSDSKYSSSFLDSGWRDLFSRSEPPVSEQLDVAGRVMQYVNGAATT  
HQLPVAEAMLTCRHKFPDEDSYQKFIPFIGVVKVGLVEDSPSTAGDGDSPVSLTVPST  
SPSSSSGLSRDATATPPSSPSMSALAIVGSPNSPYGDVIGLQVDYWLGHPPERREGDK  
RDASSKNTLKSFRSVQVSRLPHSGEAQLSGTMAMTVVTEKNKKVPTIFLSKKPREKEV  
DSKSQVIEGISRLICSAKQQQTMLRVSIDGVEWSDIKFFQLAAQWPTHVKHFPVGLFSGS  
KAT

>sp|Q8NCC3|PAG15\_HUMAN Group XV phospholipase A2 OS=Homo sapiens GN=PLA2G15 PE=1 SV=2  
MGLHLRPYRVGLLPDGLFLLLLLLMLLADPALPAGRHPVVLVPGDLGNLEAKLDKPTV  
VHYLCSKKTESYFTIWLNLLELLPVII DCWIDNIRLVYNKTSRATQFPDGDVVRVPGFGK  
TFSLEFLDPSKSSVGSYFHTMVESLVGWYTRGEDVRGAPYDWRAPNENGPYFLALREM  
IEEMYQLYGGPVVLVAHSMGMYTLYFLQRQPQAWKDKYIRAFVSLGAPWGGVAKTLRVL  
ASGDNNRIPVIGPLKIREQQRSVSTSWLLPYNTWSPEKVVFVQTPTINYTLRDYRKFQ  
DIGFEDGWLMRQDTEGLVEATMPPGVQLHCLYGTGVPTPDSFYYESFPDRDPKICFGDGD  
GTVNLKSALQCQAWQSRQEHQVLLQELPGSEHIEMLANATTLAYLKRVLG

>sp|O75459|PAGE1\_HUMAN P antigen family member 1 OS=Homo sapiens GN=PAGE1 PE=1 SV=2  
MGFLRRLIYRRRPMIYVESSESSDEQPDEVESPTQSQDSTPAEEREDEGASAAQGGQEPE  
ADSQELVQPKTGCELDGDPDKRVCLRNEEQMKLPAEGPEPEADSQEQVHPKTGCERGDG  
PDVQELGLPNPEEVKTPEEDEGQSQP

>sp|O14832|PAHX\_HUMAN Phytanoyl-CoA dioxygenase, peroxisomal OS=Homo sapiens GN=PHYH PE=1  
SV=1

MEQLRAAARLQIVLGHGRPSAGAVVAHPTSGTSSASFHPQQFQYTLDNVLTLEQRKF  
YEENGFLVIKNLVPDADIQRFRNEFEKICRKEVKPLGLTVMRDVTISKSEYAPSEKMITK  
VQDFQEDKELFRYCTLPEILKYVECFTGPNIMAMHTMLINKPPDSGKTSRHPLHQDLHY  
FPFRPSDLIVCAWTAMEHISRNGCLVVLPGTHKGSCLKPHDYPKWEAGVNMFMHGIQDYE  
ENKARVHLVMEKGDTVFFHPLL IHGSGQNKQTQGRKAISCHFASADCHYIDVKGTSQENI  
EKEVVGIAHKFFGAENSVNLKDIWMFRARLVKGERTNL

>sp|Q13153|PAK1\_HUMAN Serine/threonine-protein kinase PAK 1 OS=Homo sapiens GN=PAK1 PE=1  
SV=2

MSNGLDIQDKPPAPPMRNTSTMIGAGSKDAGTLNHGSKPLPPNPEKKKKDRFYRSILP  
GDKTNKKKEKERPEISLPSDFEHTIHVGFDVATGFTGMPEQWARLLQTSNITKSEQKKN  
PQAVLDVLEFYNSKKTSSQKYSFTDKSAEDYNSSNALNVKAVSETPAVPPVSEDEDD  
DDDATPPPVIAPRPEHTKSIVYTRSVIEPLVPTPTRDVATSPISPTENNTTPPDALTRNTE  
KQKKKPKMSDEEILEKLRSIVSGDPKKKYTRFEKIGQGASGTVYTAMDVATGQEVAIKQ  
MNLQQQPKKELIINEILVMRENKPNIVNYLDSYLVGDELWVMEYLAGGSLTDVVTETC  
MDEGQIAAVCRECLQALEFLHSNQVIHRDIKSDNILLGMDGSVKLTDFGFCQAQITPEQSK  
RSTMVGTPTYWMAPEVVTRKAYGPKVDIWSLGIMAIEIEGEPYLNENPLRALYLIATNG  
TPELQNPEKLSAIFRDFLNRCLMDVEKRGSAKELLQHQLKIAKPLSSLTPLIAAAKEA  
TKNNH

>sp|F5H284|PAL4D\_HUMAN Peptidyl-prolyl cis-trans isomerase A-like 4D OS=Homo sapiens  
GN=PPIAL4D PE=3 SV=1

MVNSVVF FEITRDGKPLGRISIKLFADKIPKTAENFRALSTGEKGFYKGS CFHRIIPGF  
MCQGGDFTRPNGTGDKSIYGEKFDDENLIRKHTGSGILSMANAGPNTNGSQFFICAAKTE  
WLDGKHVAFGKVKERNIVEATEHFGYRNSKTSKKITIADCGQF

>sp|Q504Q3|PAN2\_HUMAN PAB-dependent poly(A)-specific ribonuclease subunit PAN2 OS=Homo sapiens GN=PAN2 PE=1 SV=3

MNFEGLDPLGLAEYAPAMHSALDPVLD AHLNPSLLQNVELDPEGVALEALPVQESVHIMEG  
VYSELHSVVAEVGPVSVSHFDLHEEMLWVGSHGGHATSFFGPALERYSSQVNGSDDIR  
QIQSLENGILFLTKNNLKYMARGGLIIFDYLLDENEDMHSLLLTDSS TLLVGG LQNHIE  
IDLNTVQETQKYAVETPGVTIMRQTNRRFFFCGHTSGKVSRLDLRTFKVEHEFDAFSGSLS  
DFDVHGNLLAACGFSSRLTGLACDRFLKVYDLRMMRAITPLQVHVDPAFLRFIPTYTSRL  
AIIISQSGQCQFCEPTGLANPADIFHVNVPVGPLLMTFDVSASKQALAFGDSEGCVHLWTD  
PEPSFNPNYSRETEFALPCLVDSLPLDWSQDLLPLSLIPVPLTTDTLLSDWPAANSAPAP  
RRAPPVDAEILRTMKKVGFIGYAPNPRTLNRNQIPYRLKESDSEFDSFSQVTESPVGREE  
EPHLMVSKKYRKVTIKYSKLGLDFDFKHYNKTLFAGLEPHIPNAYCNCMIQVLYFLEP  
VRCLIQNHLCQKEFCLACELGFLFHM LDSL RGDPCQGNFLRAFRTIPEASALGLILADS  
DEASGKGNLARLIQRWNRILTQLHQDMQELEIPQAYRGAGGSSFCSSGDSVIGQLFSCE  
MENCSLCRCGSETVRASSTLLFTLSYPDGSKSDKTGKNYDFAQVLKRSICLDQNTQAWCD  
TCEKYQPTIQTRNIRHLPDILVINCEVNSSKEADFWRMQAEVAFKMAVKKHGGEISK NKE  
FALADWKELGSPEGVLVCP SIEELKNVWLPFSIRMKMTKNKGLDVCNWTGDGEMQWGP  
AR AEEHGVVYVYDLMATVVHILDSRTGGSLVAHIKVGETYHQRKEGVTHQQWYLFNDFLIEP  
IDKHEAVQFDMNWKPAILYYVKNRLNSRYNLNIKNPIEASVLLAEASLARKQRKTH TTF  
IPLMLNEMPQIGDLVGLDAEFVTLNEEEAELRSDGTKSTIKPSQMSVARITCVRGQGPNE  
GIPFIDDIISTQEQQVDYLTQYSGIKPGDLDAKISSKHLTTLKSTYLKLRFLIDIGVKFV  
GHGLQKDFRVINLMVPKDQVLDTVYLFHMPRKRMISLRFLAWYFLDLKIQGETHDSIEDA  
RTALQLYRKYLELSKNGTEPESFHKVLKGLYEKGRKMDWKVPEPEGQTS PKNAAVFSSVL  
AL

>sp|Q86W56|PARG\_HUMAN Poly(ADP-ribose) glycohydrolase OS=Homo sapiens GN=PARG PE=1 SV=1

MNAGPGCEPCTKRPRWGAATTSPAASDARSFP SRQRRVLPKDAHVQFRVPPSSPACVPG  
RAGQHRGSATSLVFKQKTITSWMDTKGIKTAESLDSKENNNTRIESMMSSVQKDNFYQ  
HNVEKLENVSQLSLDKSPTEKSTQYLNQHQTAAMCKWQNEGKHTEQLLESEPQTVTLVPE  
QFSNANIDRSPQNDHSDTDSEENRDNQQLTTVKLANAKQTTEDEQAREAKSHQKCSKS  
CDPGEDCASCQQDEIDVVPESPLSDVGSSEVGTGPKNDNKLTRQESCLGNSPPFEKESEP  
ESPMVDVNSKNSCQDSEADEETSPGFDEQEDGSSSQ TANKPSRFQARDADIEFRKRYSTK  
GGEVRLHFQFEGGESRTGMNDLNAKLPGNISSLNVECRNSKQH GK KDSKITDHFMR LPKA  
EDRRKEQWETKHQRTERKIPKYVPPHLS PDKKWLGTPIEEMRRMPRCGIRLPLLRPSANH  
TVTIRVDLLRAGEVPKFPFTHYKDLWDNKHVKMPCSEQNLYPVEDENGERTAGSRWELIQ  
TALLNKFTRPQNLDAILKYNVAYSKKWDF TALIDFWDKVL EEAE AQHLYQSILPDMVKI  
ALCLPNICTQPIPLLKQKMNSITMSQE QIASLLANAFFCTFPRRNAKMKSEYSSYPDIN  
FNRLFEGRSSRKPEKLKTLFCYFRRVTEKKPTGLVTFTRQSLEDFPEWERCEKPLTRLHV  
TYEGTIEENGQGMQLQVDFANRFVGGGVTSAGLVQEEIRFLINPELII SRLFTEVL DHNEC  
LIITGTEQYSEYTG YAETYRWSRSHEDG SERDDWQRRCTEIVAIDALHFRRYLDQFVPEK  
MRRELNKAYCGFLRPGVSSENLSAVATGNWCGGAFGGDARLKALIQILAAAAAERDVVYF  
TFGDSELMRDIYSMHIFLTERKLTVG DVYKLLLRYYNEECRNCSTPGPDIKLYPFYHAV  
ESCAETADHSGQRTGT

>sp|Q9H300|PARL\_HUMAN Presenilins-associated rhomboid-like protein, mitochondrial OS=Homo sapiens GN=PARL PE=1 SV=2

MAWRGWAQRGWGCGQAWGASVGGRSCEELTAVLTPPQLLGRRFNFFIQQKCGFRKAPRKV  
EPRRSDPGTSGEAYKRSALIPPVEETVFYPSYPYIRSLIKPLFFTGVGTGCAFGSAAIWQ  
YESLKSRSVQSYFDGIKADWLDSIRPQKEGDFRKEINKWWNNLSDGQRTVTGIIAANVLVF  
CLWRVPSLQRTMIRYFTSNPASKVLCSPMLLSTFSHFSLFHMAANMYVLWSFSSSIVNIL  
GQEQFMAVYLSAGVISNFVSYVGK VATGRYGPSL GASGAIMTVLAAVCTKIPEGRLAIIIF  
LPMFTFTAGNALKAI IAMDTAGMILGWKFFDHAHLGGALFGIWVVTYGHELIWKNREPL  
VKIWHEIRTNGPKKGGGSK

>sp|Q9UGN5|PARP2\_HUMAN Poly [ADP-ribose] polymerase 2 OS=Homo sapiens GN=PARP2 PE=1 SV=2

MAARRRRSTGGGRARALNESKRVNNGNTAPEDSSPAKKTRRCQRQESKKMPVAGGKANKD  
RTEDKQDGMPPGRSWASKRVSESVKALLLKGKAPVDPECTAKVGKAHVYCEGNDVYDMLN  
QTNLQFNNNKYLIQLLEDDAQRNFSVWMRWGRVGMGQHSLVACSGNLNKAKEIFQKKF  
LDKTKNNWEDREKFEKVPKYDMLQMDYATNTQDEEETKKEESLKSPLKPESQLDLRVQE  
LIKLI CNVQAMEEMMEMKYNTKKAPLGKLTVAQIKAGYQSLKKIEDCIRAGQHGRALME  
ACNEFYTRIPHDFGLRTPPLIRTQKELSEKIQLEALGDIEIAIKLVKTELQSPEHPLDQ  
HYRNLHCA LRPLDHESEYEFKVISQYLQSTHAPTHSDYTM TLLDLFEVEKDGEKEAFREDL  
HNRMLLWHGSRMSNWVGILSHGLRIAPPEAPITGYMFGKGIYFADMSSKSANYCFASRLK  
NTGLLLLSEVALGQCNELLEANPKAEGLLQKGHSTKGLGKMAPSSAHFVTLNGSTVPLGP  
ASDTGILNPDGYTLNYNEYIVYNPNQVRMRYLLKVQFNFLQLW

>sp|Q7Z3E1|PARPT\_HUMAN TCDD-inducible poly [ADP-ribose] polymerase OS=Homo sapiens GN=TIPARP PE=2 SV=1

MEMETTEPEPDCVVQPPSPDDFSCQMRLSEKITPLKTCFKKKDQKRLGTGTLRSLRPIL  
NTLLESGSLDGVFRSRNQSTDENSLHEPMMKKAMEINSSCPPAENMSVLIPDRTNVGDQ  
IPEAHPSTEAPERVVPIQDHSFPSETLSGTVADSTPAHFQTDLLHPVSSDVPTSPDCLDK  
VIDYVPGIFQENSFTIQYILDTSDKLSTELFQDKSEEASLDLVFELVNQLQYHTHQENGI  
EICMDFLQGTCTIYGRDCLKHHTVLPYHWQIKRTTTQKWQSVFNDSQEHLERFYCNPENDR  
MRMKYGGQEFWADLNAMNVYETTEFDQLRRLSTPPSSNVNSIYHTVWKFFCRDHFGWREY  
PESVIRLIEEANSRGLKEVRFMWNNHYILHNSFFREIKRRPLFRSCFILLPYLQTLGG  
VPTQAPPPLEATSSSQIICPDGVTSANFYPETWVYMHP SQDFIQVPVSAEDKSYRIIYNL  
FHKTVP EFKYRILQILRVQNQFLWEKYKRKKEYMNRKMFGRDRIINERHLFHGTSQDVVD  
GICKHNFDPRVCGKHATMFGGGSYFAKKASYSHNFSKKSSKGVHFMFLAKVLTGRYTMGS  
HGMRRPPPVPNPGSVTSDLYDSCVDNFFEPQIFVIFNDDQSYPPYFVIQYEEVSNTVSI

>sp|Q9NVD7|PARVA\_HUMAN Alpha-parvin OS=Homo sapiens GN=PARVA PE=1 SV=1

MATSPQKSPSVPKSPTPKSPPSRKDDSFGLKLGGLARRKKAKEVSELQEEGMNAINLP  
LSPIPFELDPEDTMLEENEVRTMVDPNRSRDPKLQELMKVLIDWINDVLVGERII VKDLA  
EDLYDGQVLQKLF EKLESEKLNVAEVTQSEIAQKQKLQTVLEKINETLKLPPRSIKWNVD  
SVHAKSLVAIHLHLVALSQYFRAPIRLPDHVSIQV VVVQKREGILQSRQIQEEITGNTEA  
LSGRHERDAFDTLFDHAPDKLNVVKKTLITFVNKHLNKLNLVTELETQFADGVYLVLLM  
GLLEGYFVPLHSFFLTPDSFEQKVLNVSF AFELMQDGGLEKPKRPEDIVNCDLKSTLRV  
LYNLFTKYRNE

>sp|P55771|PAX9\_HUMAN Paired box protein Pax-9 OS=Homo sapiens GN=PAX9 PE=1 SV=3

MEPAFGEVNQLGGVFVNGRPLPNAIRLRIVELAQLGIRPCDISRQLRVSHGCVSKILARY  
NETGSILPGAIGGSKPRVTTPTVVKHIRTQYKQRP GIFAWEIRDRLADGVCDKYNVPSV



SSISRILRNKIGNLAQQGHYDSYKQHQPALPYNHIYSYSPITAAAAKVPTPPGVP  
AIPGSVAMPRTWPSSHSVTDILGIRSITDQVSDSSPYHSPKVEEWSSLGRNNFPAAAPHA  
VNGLEKGALEQEAKYQGAPNGLPAVGSFVSASSMAPYPTPAQVSPYMTYSAAPSGYVAGH  
GWQHAGGTSLSPHNCDIPASLAFKGMQAAREGSHSVTASAL

>sp|Q58A44|PCOTH\_HUMAN Prostate collagen triple helix protein OS=Homo sapiens  
GN=C1QTNF9B-AS1 PE=1 SV=2

MWILSNLMTSEEGLLSTVSPVTKALFGKTRVSPIFPFSPRSPFQPLIPRTPGSPWGPV  
GPASPLGPGFPIGPMGPGKPVGPKGPMLPLGPSGPVGPTSPLFPFCP

>sp|P48539|PCP4\_HUMAN Purkinje cell protein 4 OS=Homo sapiens GN=PCP4 PE=1 SV=3

MSERQGAGATNGKDKTSGENDGQKVKVEEFDIDMDAPETERAAVAIQSQFRKFQKKKAGS  
QS

>sp|P42785|PCP\_HUMAN Lysosomal Pro-X carboxypeptidase OS=Homo sapiens GN=PRCP PE=1 SV=1

MGRRALLLLLSFLAPWATIALRPALRALGSLHLPTNPTSLPAVAKNYSVLVYFQQKVDHF  
GFNTVKTFNQRYLVADKYWKNGGSILFYTGNEGDIIWFCNNTGMWDVAEELKAMLVFA  
EHRYYGESLPFGDNSFKDSRHLNFLTSEQALADFAELIKHLKRTIPGAENQPVIAIGGSY  
GGMLAAWFRMKYPHVMVGALAASAPIWQFEDLVPCGVFMKIVTTDFRKSGPHCSESIHRS  
WDAINRLSNTGSLQWLTGALHLCSP LTSQDIQHLKDWISETWVNLAMVDYPYASNFLQP  
LPAWPIKVVQCQYLKNPNVSDSLLQNIFFQALNVYYNYSQGVKCLN ISETATSSSLGTLGWS  
YQACTEVVMPFCTNGVDDMFEPHSWNLKELSDDCFQQWGVRRPSWITMYGGKNISSHT  
NIVFSNGELDPWSGGGVTKDITDTLVAVTISEGAHHLDLRTKNALDPMSVLLARSLEVRH  
MKNWIRDFYDSAGKQH

>sp|A6NKB5|PCX2\_HUMAN Pecanex-like protein 2 OS=Homo sapiens GN=PCNX2 PE=2 SV=3

MVSQVLQLLRQGVAAALTGGWYHDPEQSKFTNSCHLYLWLFLLLLPLALHLAFPPNAIIV  
FFYCSAVTIFFTIIKLVSYRLHLMFDKGEVIQQKPSRKEEKPNKDKEAKGEHITNHRNPS  
NNRQIHNGKKEEASRNLSPTPLRCSSRGQSITSHHSSGPLELSAQETVEDLKGVI LLEDH  
PIAPVSSTSPGIKVESLPASQAHMLET TTKSVIPVKPVATETLINGKGKERGGKGQPPLR  
HRSEGGLVDKGPLKKLPHLSLSQYDLLET DVSFQPWGSSENSVLIPEPVSCPRGSIRERVQ  
SKSPQDSLSSSCPQCDTIVAKPVEEPADTSCQVDTSCQGDPLHQEVDSSDSEVAVTLID  
TSQPGDPLSLHEPIKIVITMSSTPNSMTDLESSLHLRVVGTEKTSVKSDAEPTNPGAAGS  
PNAEQISIPVITLDLPEGGGGGVPCPEGNGSERTPERLKTRVSTNQCSGYGSGEGGNAIK  
DHSSSSREPWESVSR LPTDTSSESKVGKEGQTNLDPSSCKSSHEKRHARVLSVDSGTDVF  
LSKSSAEIVNDEKTMPTSKSDLEAKEGQMPNESNFLEFVS LLESINTSKMTASSQLNGS  
AEQNEESGLLRDNCSQEKKEEILENEKPSGHSSKQGKPDLSQDHTSTGPACTQPAKTTA  
FFQGNRQRQIIYRVTSQQDSSVLQVISGPETSVQEEISVDAMHVFIDEHGEIRSCYLKSG  
NQKEGPLQLPLSNNDCLSQAREMQVSSSSTTSESQDPSSGDP AVSALQQQLLLMVARRT  
QSETPRHVSQDLEASSCSSTQGKFNRQFYKFIIFPGKWKVWYDRLTLLALLDRTE DIK  
ENVLAILLIVLVSLGLFTLSQGFCKDMWVLLFCLVMASCQYSLLKSVQPD PASPIHGHN  
QIITYSRPIYFCVLCGLILLDTGAKARHPPSYVVYGLKLFSPVFLQSARDYLIVFLYCF  
PAISLLGLFPQINTFCTYLLEQIDMLFFGGSAVSGITS AVYSVARSVLAAALLHAVCFSA  
VKEPWSMQHIPALFSAFCGLLVALSYHL SRQSSDPVLSMFSIQCRLFPKFLHQNLAESAA  
DPLPKMKMDSVTDVLKWDLIVCAVVAVLSFAVSASTVFLSLRPFLSIVLFALAGAVGFVT  
HYVLPQLRKHHPMMWISHPILKNKEYHQREVRDVAHLMWFERLYVWLQCFEKYILYPALI  
LNALTIDAFLISNHRRLGTHWDIFLMI IAGMKLLRTSFCNPVYQFINLSFTVIFHFHDYK  
DISESFLLDFFMVSI LFSKLGDLLHKLQFVLTYVAPWQMAWGSSFHVFAQLFAIPHSAML

FFQTIATSIFSTPLSPFLGSVIFITSYVRPVKFWKKNYNTRRVDNSNTRLAVQIERDPGN  
DDNNLNSIFYEHLTRTLQESLCGDLVLGRWGNYS SDCFILASDDLNAFVHLIEIGNGLV  
TFQLRGLFRTGYCQQREVEAIMEGDEEDRGCCCKPGHLPHELLSCNAAFHLRWLTWEIT  
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DEDSPLVTL SFALCTLGRRALGTAAHNMAISLDSFLYGLHVLFGKDFRITARDEWVFADM  
DLLHKVVAPAIRMSLKLHQDQFTCPDEYEDPAVLYEAIQSFEKKVVICHEGDPAWRGAVL  
SNKEELLTLRHVVDEGADEYKVI MLHRSFLSFKVIKVNKECVRGLWAGQQQELIFLRNRN  
PERGSIQNNKQVLRNLI NSSCDQPLGYPMYVSPLTTSYLGTHRQLKNIWGGPITLDRIRT  
WFWTKWVRMRKDCNARQHSGGNIEDVDGGGAPT TGGNAPSGGSQESSAEQPRKGGAQH  
VSSCEGTQRTGRRKGRSQSVQAHSALSQRPPMLSSSGPILESRQTFLQTSTSVHELAQRL  
SGSRLSLHASATSLHSQPPVTTTGHLSVRERA EALIRSSLGSSTSTLSFLFGKRSFSS  
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>sp|Q15116|PDCD1\_HUMAN Programmed cell death protein 1 OS=Homo sapiens GN=PDCD1 PE=1 SV=3  
MQIPQAPWPVWVAVLQLGWRPGWFLDSPDRPWNPTTFSPALLVVTEGDNATFTCSFSNTS  
ESFVLNWRMSPSNQTDKLAAPEDRSQPGQDCRFRTQLPNGRDFHMSVVRARRNDSGT  
YLCGAISLAPKAQIKESLRAELRVTERRAEVPTAHPSPSPRPAGQFQTLVVGVGGLLGS  
LVLLVWVLAVICSRAARGTIGARRTGQPLKEDPSAVPVFSVDYGE LDFQWREKTPEPPVP  
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>sp|O14737|PDCD5\_HUMAN Programmed cell death protein 5 OS=Homo sapiens GN=PDCD5 PE=1 SV=3  
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LVKPEKTKAVENYLIQMARYGQLSEKVSEQGLIEILKKVSQQTEKTTTVKFNRKVMDS  
EDDDY

>sp|Q6L8Q7|PDE12\_HUMAN 2',5'-phosphodiesterase 12 OS=Homo sapiens GN=PDE12 PE=1 SV=2  
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KNMQRDQSEPLGRVLSRIATNALKGHAKAAAAKKSRKSRPNASGGAACSGPGEPAVFCE  
PVVKLYYREEAVAEDVLNVDWQDGA VLQIGDVKYKVERNPPAFTELQLPRYIMAGFPVC  
PKLSLEFGDPASSLFRWYKEAKPGAAEPEVGPSSSLSPSSPSSSWTETDVEERVYTPSNA  
DIGRLKLHCTPGDQGRFGHSRELESVCVVEAGPGTCTFDHRHLYTKKVTEDALIRTVSY  
NILADTYAQTEFSRTVLYPYCAPYALELDYRQNLIQKELTGYNADVICLQEVDRVFS  
LVPALAEAFGLEGVFRIKQHEGLATFYRKSKFSLLSQHDISFYEALES DPLHKELEKLVL  
YPSAQEKVLQRSSVLQVSVLQSTKSSKRICVANTHLYWHPKGGYIRLIQMAVALAHIRH  
VSCDLYPGIPVIFCGDFNSTPSTGMYHFVINGSIPEDHEDWASNGEEERCNMSLTHFFKL  
KSACGEPAYTNYVGGFHGCLDYIFIDLNALEVEQVIPLPSHEEVTTHQALPSVSHPSDHI  
ALVCDLKWK

>sp|Q08493|PDE4C\_HUMAN cAMP-specific 3',5'-cyclic phosphodiesterase 4C OS=Homo sapiens  
GN=PDE4C PE=1 SV=2  
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LYRSDSDYELSPKAMSRNSSVASDLHGEDMIVTPFAQVLASLRTVRSNVAALARQQCLGA  
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LNRELTHLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAEAPQPM SRISGLHGLCHSA  
SLSSATVPRFGVQTDQEEQLAKELED TNKWGLDVFKVAELSGNRPLTAIIFSIFQERDLL

KTFQIPADTLATYLLMLEGHYHANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILA  
ALFASAIHDVDHPGVSNQFLINTNSELALMYNDASVLENHHLAVGFKLLQAENCDIFQNL  
SAKQRLSLRRMVIDMVLATDMSKHMNLLADLKT MVETKKVTS LGVLLLDNYS DRIQVLQN  
LVHCADLSNPTKPLPLYRQWTD RIMAEFFQQGDRERESGLDISPMCDKHTASVEKSQVGF  
IDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKI PRSPSDLTNPERDGPDRFQFEL  
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>sp|P35913|PDE6B\_HUMAN Rod cGMP-specific 3',5'-cyclic phosphodiesterase subunit beta  
OS=Homo sapiens GN=PDE6B PE=1 SV=2

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DCLVPPDSEIVFPLDIGVVGHVAQTKKMVNVEDVAECPHFSSFADELTDYKTKNMLATPI  
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SADEMFKFQEGALDDSGWL IKNVLSMPIVNKKEEIVGVATFYNRKD GKPFEQDEVLMES  
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DEDELGEILKEELPGPTTFDIYEFHFSLECTELDLVKCGIQMYEELGVVRKFQIPQEV  
VRFLFSISKGYRRITYHNWRHGFNVAQTMFTLLMTGKLKSYTDL EAFAMVTAGLCHDID  
HRGTNNLYQMKSQNPLAKLHGSSILERHHLEFGKFL SEETLNIYQNLNRRQHEHVIHLM  
DIAIIATDLALYFKKRAMFQKIVDESKNYQDKKSWVEYLSLETTRKEIVMAMMTACDLS  
AITKPWEVQSKVALLVAAEFWEQGLERTVLDQQPIPMMDRNKAAELPKLQVGFIDFVCT  
FVYKEFSRFHEEILPMFDR LQNNRKEWKALADEYEAKVKALEEKEEEEERVA AKKVGTETC  
NGGPAPKSSTCCIL

>sp|095263|PDE8B\_HUMAN High affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic  
phosphodiesterase 8B OS=Homo sapiens GN=PDE8B PE=1 SV=2

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VIDHRQTQNFDAEAVCRSIRATNPSEHTVILAVVSRVSDDEEASVLP LLHAGFNRRFME  
NSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCHEAIEITSDDHVIQYVNP AFER  
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ITPVIQGGKIRHFVSLKKLCCTTDNNKQIHKIHRDSDGNSQTEPHSFRYKNRRKESIDV  
KSISSRGSDAPSLQNRYP SMARIHSMTIEAPITKVINIINAAQENSPVTVAEALDRVLE  
ILRTTELYSPQLGTKDEDPHTSDLVGGLMTDGLRRLSGNEYVFTKNVHQSHSLAMPITI  
NDVPPCISQLLDNEESWDFNIFELEAITHKRPLVYLGLKVFSRFGVCEFLNCSETTLRAW  
FQVIEANYHSSNAYHNSTHAADVLHATAFFLGKERVKGS LDQLDEVAALIAATVHDVDHP  
GRTNSFLCNA GSELAVLYNDTAVLESHHTALAFQLTVKDTKCNIFKNIDRNHYRTL RQAI  
IDMVLATEMTKHFHVNFVNSINKPMAAEIEGSDCECNPAGKNFPENQILIKRMMIKCA  
DVANPCRPLDLCIEWAGRISEYFAQTDEEKRQGLPVVMPVFD RNTCSIPKSQISFIDYF  
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>sp|Q9NZ53|PDXL2\_HUMAN Podocalyxin-like protein 2 OS=Homo sapiens GN=PODXL2 PE=1 SV=1

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SEEPSETMGLGAGLGAPGSGFPSEENEESRILQPPQYFWEEEEELNDSSLDLGPTADYVF  
PDLTEKAGSIEDTSQAQELPNLPSPLPKMNLVEPPWHMPPREEEEEEEEEEREKEEVEK

QEEEEEEELLPVNGSQEEAKPQVRDFSLTSSSQTPGATKSRHEDSGDQASSGVEVESSMG  
PSLLLPSVTPTTTPGDQDSTSQEAEATVLPAAAGLGVFEAPQEASEEATAGAAGLSGQH  
EEVPALPSFPQTTPASGAHPDEDPLGSRTSASSPLAPGDMELTPSSATLGQEDLNQQL  
EGQAEEAQSRIPWDSTQVICKDWSNLAGKNYIILNMTENIDCEVFRQHRGPQLLALVEEV  
LPRHSGHHGAWHISLSKPSEKEQHLLMTLVGEQGVVPTQDVL SMLGDIRRSLEEIGIQN  
YSTTSSCQARASQVRSDYGTFLFVVLVVIGAICIIIIALGLLYNCWQRRLPKLKHSVHGEE  
LRFVENGCHDNP TLDVASDSQSEMKEKHPSLNGGGALNGPGSWGALMGKRD PEDSDVFE  
EDTHL

>sp|Q5VY43|PEAR1\_HUMAN Platelet endothelial aggregation receptor 1 OS=Homo sapiens  
GN=PEAR1 PE=1 SV=1

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GPHTCPQPTVVYRTVYRQVVKTDHRQLQCCHGFYESRGFCVPLCAQECVHGRCVAPNQC  
QCVPGWRGDDCSSECAPGMWGPQCDKPCSCGNNSSCDPKSGVCSCPSGLQPPNCLQPCTP  
GYYGPACQFRCQCHGAPCDPQTGACFCPAERTGPSCDVSCSQGTSGFFCPSTHSCQNGGV  
FQTPQGSCSCPPGWMGTICSLPCEGFHGPNCSEQECRCHNGGLCDRFTGQCRCAPGYTGD  
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GLCQCAPGYTGPHCASLCPDPTYGVNCSARCSCEAIACSPIDGECVCKEGWQRGNC SVP  
CPPGTWGFSCNASQC AHEAVCSPQTGACTCTPGWHGAHCQLPCPKGQFGE GCASRCDCD  
HSDGCDPVHGRCQCQAGWMGARCHLSCEGLWGVNCSNTCTCKNGGTCLPENGNCVCAPG  
FRGPSCQRSCQPGRYGKRCVPCKCANHSFCHPSNGTCYCLAGWTGPDSCQCPPPGHWGEN  
CAQTCQCHHGGTCHPQDGSCICPLGWTGHHCLEGCPLGTFGANCSQPCQCGPGEKCHPET  
GACVCPPGHSGAPCRIGIQEPFTVMPTTPVAYNSLGAVIGIAVLGSLVVALVALFIGYRH  
WQKGKEHHHLAVAYSSGRLDGSEYVMPDVPPSYSHYYSNPSYHTLSQCSNPPPPNKVPG  
PLFASLQNPERPGGAQGHDNHTLPADWKHRREPPPGPLDRGSSRLDRSYSYSYNGPGP  
FYNKGLISEEELGASVASLSEN PYATIRDLPSLPGGPRESSYMEMKGPPSGSPRPQPQ  
FWDSQRRRQPQPQRDSGTYEQPSPLIHDRDSVGSQPPLPPGLPPGHYDSPKNSHIPGHYD  
LPPVRHPPSPPLRRQDR

>sp|Q9BVG4|PBDC1\_HUMAN Protein PBDC1 OS=Homo sapiens GN=PBDC1 PE=1 SV=1

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FLKLTkVDDQIYSEFRKNFETLRIDVLDPEELKSES AKEKWRPFCLKFNGIVEDFNYGTL  
LRLDCSQGYTEENTIFAPRIQFFAIEIARNREGYNKAVYISVQDKEGEKGVNNGGEK RAD  
SGEEENTKNGGEKGADSGEEKEEGINREDKTDKGGEKGKEADKEINKSGEKAM

>sp|A6NKN8|PC4L1\_HUMAN Purkinje cell protein 4-like protein 1 OS=Homo sapiens GN=PCP4L1  
PE=3 SV=3

MSELNKTSPATNQAAQGEK GKAGNVKKAEEEEIDIDL TAPETEKAA LAIQKFRRFQ  
KRKKDPSS

>sp|P57723|PCBP4\_HUMAN Poly(rC)-binding protein 4 OS=Homo sapiens GN=PCBP4 PE=2 SV=1

MSGSDGGL EEPELSITLTLRLMHGKEVGSII GKKG ETVKRIREQSSARITISEGSCPE  
RITTITGSTAAVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKA  
GTKIKEIRETTGAQVQVAGDLLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATI  
PYHPSLSLGTVLLSANQGFSVQGGYGAVTPAEVTKLQQLSSHAVPFATPSVVPGLDPGTQ  
TSSQEFLVPNDLIGCVIGRQSKISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
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>sp|Q8N6Y1|PCD20\_HUMAN Protocadherin-20 OS=Homo sapiens GN=PCDH20 PE=2 SV=2

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SYSRATELLYSLNEGLPAGVLIGSLAEDLRLPRSAGRDPDQSQLPERTGAENPPLSFS  
LASRGLSGQYVTLNRSSELHTSAQEIDREALCVEGGGTAWSGSVSISSSPSDSCLLLL  
DVLVLPQEYFRFVKVIAIRDINDNAPQFPVSQISVWVPENAPVNTRLAIEHPAVDPDVG  
INGVQTYRLLDYHGMFTLDVEENENGERTPYLIVMGALDRETQDQYVSIIEAEDGGSPPL  
LGSATLTIGISDINDNCPLFTDSQINVTYGNATVGTPIAAVQAVDKDLGTNAQITYSYS  
QKVPQASKDLFHLDENTGVIKLFSKIGGSVLESHKLTILANGPGCIPAVITALVSIKVI  
FRPPEIVPRYIANEIDGVVYLKELEPVNTPIAFFTIRDPEGKYKVNICYLDGEGPFRLSPY  
KPYNNEYLLETTKPMDEYELQQFYEVAVVAVNSEG FHVKRVIKVQLDDNDNAPIFLQPLI  
ELTIEENNSPNAFLTCLYATDADSEERGQVSFLGPDAPSYFSLDSVTGILTVSTQLDRE  
EKEKYRYTVRAVDCGKPPRESVATVALTVLDKNDNSPRFINKDFSFFVPENFPGYGEIGV  
ISVTDADAGRNGWVALSVVNQSDIFVIDTGKMLRAKVS LDREQQSSYTLWVEAVDGGEP  
ALSSTAKITILLDINDNPLVLPQSNMSYLLVLPSTLPGSPVTEVYAVDKDTGMNAVI  
AYSIIIGRRGPRPESFRIDPKTGNITLEEALLQTDYGLHRLLVKVS DHGYPEPLHSTVMVN  
LFVNDTVSNESYIESLLRKEPEINIEEKEPQISIEPTHRKVESVSCMPTLVALSVISLGS  
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>sp|Q9Y5I3|PCDA1\_HUMAN Protocadherin alpha-1 OS=Homo sapiens GN=PCDHA1 PE=2 SV=1

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PRLFRVASKTHRDLLEVNLQNGILFVNSRIDREELCQWSAECSIHLELIADRPLQVFHVE  
VKVKDINDNPPVFRGREQIIFIPESRLLSRFP IEGAADADIGANALLTYTLSPSDYFSL  
DVEASDELSKSLWLELRKYLDREETPELHLLLTATDGGKPELQGTVELLITVLDVNDNAP  
LFDQAVYRVHLETTANGTLVTTLNASDADEGVNGEVVFSFDSGISRDIQEKFKVDSSSG  
EIRLDKLDYEETKSYEIQVKAVDKGSPMSNHCKVLVKVLDVNDNAPELAVTSLYLPIR  
EDAPLSTVIALITVSDRDSGANGQVTCSLMPHPFKLVSTFKNYSLV LDSALDRESLSV  
YELVVTARDGGSPSLWATARVSVEVADVNDNAPAFAPQPEYTVFVKENPPGCHIFTVSAR  
DADAQENALVSYSLVERRVGERALS NYVSVHAESGKVYALQPLDHEELELLQFQVSARDA  
GVPPLGSNVTLQVFVLDENDNAPALLAPRVGGTIGAVSELVPRLVGAGHVVAKVRAVDAD  
SGYNWLSYELQPAAGGARIPFRVGLYTGEISTTRVLDEADLSRYRLVLVKDHGEPALT  
ATATVLVSLVESGQAPKASSRASVGVAGPEAALVDNVYLIITACAVSSLLVLTLLLYTA  
LRCSVPPTEGAYVPGKPTLVCSSALGWSNSQQRQRVCSEGGPKTDLMAFSPGLSPSL  
NTSERNEQPEANLDLSGNPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQQWP  
TVSSATPEPEAGEVSPVVGAGVNSNSWTFKYGPGNPKQSGPGELPKDFIIPGSPAIISIR  
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>sp|Q9Y5H9|PCDA2\_HUMAN Protocadherin alpha-2 OS=Homo sapiens GN=PCDHA2 PE=1 SV=1

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VEVKDINDNPIFPMTVKTI RFPE SRLDSRFPLEGASDADIGVNALLSYKLSSEFFFL  
DIQANDELSESLVLGKSLDREETA EVNLLLVATDGGKPELTGTQVILIKVLDVNDNEP  
TFAQSVYKVKLENTANGTLVVKLNASDADEGPNSEIVYSLGSDVSSTIQTKFTIDPISG  
EIRTKGKLDYEEAKSYEIQVTATDKGTPMSGHCKISLKLVDINDNTPPEVSITSLSPIS  
ENASLGTVIALITVSDRDSGTNGHVTCSLTPHPFKLVSTFKNYSLV LDSALDRESVSA  
YELVVTARDGGSPSLWATTSVSVIEADVNDNAPAFAPQPEYTVFVKENPPGCHIFTVSAW

DADAQENALVSYSLVERRVGERALSSYVSVHAESGKVYALQPLDHEEVELLQFQVSARDA  
GVPPLGSNVTLQVFVLDENDNAPALLAPRAGTAAGAVSELPWPSVGAGHVVAKVRAVDAD  
SGYNAWLSYELQLGTGSARIPFRVGLYTGEISTTRALDEADSPRHRLVLVKDHGEPALT  
ATATVLVSLVESGQAPKASSRAWGAAGSEATLVDNVYLIITAICAVSSLLVLTVLLYTA  
LRCSVPPTEGARAPGKPTLVCSSAVGWSYSQQRRQVCSGEDPPKTDLMAFSPSLSQGP  
DSAEKQLSESEYVGKPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTV  
SSATPEPEAGEVSPVVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIISIRQE  
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>sp|Q9UN74|PCDA4\_HUMAN Protocadherin alpha-4 OS=Homo sapiens GN=PCDHA4 PE=1 SV=1

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PRLFRVASKGRGGLLEVNLQNGILFVNSRIDREELCRRSAECSIHLEIVDRPLQVFHVD  
VEVRDINDNPPVPFATQKNLSIAESRPLDSRFPLEGASDADIGENALLTYRLSPNEYFSL  
EKPPDELVKGLGLILRKSLDREEAPEIFLVLATDGGKPELTGTVQLLITVLDANDNAP  
AFDRTIYKVRLLNPNGLTVIKLNASDLDEGLNGDIVSFSNDISPNVKSFKHIDPITG  
QIIVKGYIDFEESKSYEIIVEGIDKGQLPLSGHCRVIVEVEDNNDNVPDLEFKSLSLPIR  
EDAPLGTVIALISVSDKDMGVNGLVTCSLTSHVPFKLVSTFKNYYSVLDSALDRESVSA  
YELVVTARDGGSPSLWATASVSVEVADVNDNAPAFAPQPEYTVFVKENPPGCHIFTVSAW  
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SGYNAWLSYELQPGTGARIPFRVGLYTGEISTTRALDETDA PRHRLVLVKDHGEPALT  
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SATPEPEAGEVSPVVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIISIRQEP  
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>sp|Q9UN73|PCDA6\_HUMAN Protocadherin alpha-6 OS=Homo sapiens GN=PCDHA6 PE=2 SV=1

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DADAQENALVSYSLVERRVGERALSSYISVHAESGKVYALQPLDHEEELLQFQVSARDA  
GVPPLGSNVTLQVFVLDENDNAPALLAPRVGGTGGAVSELPVPSLGAGQVVAKVRAVDAD  
SGYNAWLSYELQPPASSARFPFRVGLYTGEISTTRVLDEADSPRHRLVLVKDHGEPALT  
ATATVLVSLVESGQAPKASSRASVGAAGPEAALVDNVYLIITAICAVSSLLVLTLLLYTA  
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TVSSATPEPEAGEVSPVVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIISIR  
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>sp|Q9Y5F3|PCDB1\_HUMAN Protocadherin beta-1 OS=Homo sapiens GN=PCDHB1 PE=2 SV=2

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VRVFDINDNAPVFLNKEPLLKIP ESTPLGSRFPLQSAQDLVDGLNGLQNYTLSANGYFHL  
HTRFCSHGPKYAELVLNKLPLDREEQPEVNLTITAVDGGSPPKSGTAHIHVVDLVNDHVP  
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>sp|Q9Y5E4|PCDB5\_HUMAN Protocadherin beta-5 OS=Homo sapiens GN=PCDHB5 PE=2 SV=1

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>sp|Q9Y5E3|PCDB6\_HUMAN Protocadherin beta-6 OS=Homo sapiens GN=PCDHB6 PE=2 SV=1

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>sp|Q9Y5F0|PCDBD\_HUMAN Protocadherin beta-13 OS=Homo sapiens GN=PCDHB13 PE=2 SV=1

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>sp|Q9Y5G7|PCDG6\_HUMAN Protocadherin gamma-A6 OS=Homo sapiens GN=PCDHGA6 PE=2 SV=1

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VDQNAQVSYS LAEDTLQGAPLSSYVSINSDTGILYALRSFDYEQLRDLQLWVTASDSGDP  
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>sp|Q9Y5G5|PCDG8\_HUMAN Protocadherin gamma-A8 OS=Homo sapiens GN=PCDHGA8 PE=2 SV=1

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>sp|Q9Y5H2|PCDGB\_HUMAN Protocadherin gamma-A11 OS=Homo sapiens GN=PCDHGA11 PE=2 SV=1

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>sp|Q3KNV8|PCGF3\_HUMAN Polycomb group RING finger protein 3 OS=Homo sapiens GN=PCGF3 PE=1  
SV=1

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>sp|Q15154|PCM1\_HUMAN Pericentriolar material 1 protein OS=Homo sapiens GN=PCM1 PE=1 SV=4

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>sp|Q9NV79|PCMD2\_HUMAN Protein-L-isoaspartate O-methyltransferase domain-containing  
protein 2 OS=Homo sapiens GN=PCMTD2 PE=2 SV=2

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K

>sp|Q92824|PCSK5\_HUMAN Proprotein convertase subtilisin/kexin type 5 OS=Homo sapiens  
GN=PCSK5 PE=1 SV=4

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>sp|Q9Y365|PCTL\_HUMAN PCTP-like protein OS=Homo sapiens GN=STARD10 PE=1 SV=2

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>sp|Q8WUM4|PDC6I\_HUMAN Programmed cell death 6-interacting protein OS=Homo sapiens  
GN=PDCD6IP PE=1 SV=1

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>sp|O00408|PDE2A\_HUMAN cGMP-dependent 3',5'-cyclic phosphodiesterase OS=Homo sapiens  
GN=PDE2A PE=1 SV=1

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GNRPMEMMDREKAYIPELQISFMEHIAMPIYKLLQDLFPKAAELYERVASNREHWTKVSH  
KFTIRGLPSNNSLDFLDEEYVDPDLGTRAPINGCCSLDAE

>sp|Q07343|PDE4B\_HUMAN cAMP-specific 3',5'-cyclic phosphodiesterase 4B OS=Homo sapiens  
GN=PDE4B PE=1 SV=1

MKKSRSVMTVMADDNVKDYFECSLSKSYSSSSNTLGIDLWRGRRCCSGNLQLPPLSQRQS  
ERARTPEGDGISRPTTLPLTTLPISAITTVSQECFDVENGPSPGRSPLDPQASSSAGLVL  
HATFPGHSQRRESFLYRSDSDYDLSPKAMSRNSSLPSEQHGDDLIVTPFAQVLASLRSVR  
NNFTILTNLHGTSNKRSPAASQPPVSRVNPQEESYQKLAMETLEELDWCLDQLETIQTYR  
SVSEMASNKFKRMLNRELTHLEMSRSGNQVSEYISNTFLDKQNDVEIPSPTQKDREKKK  
KQQLMTQISGVKKLMHSSSLNNTSISRFGVNTENEDHLAKELEDLNKWGLNIFNVAGYSH  
NRPLTCIMYAIQFERDLLKTRISSDTFITYMMTLEDHYHSDVAYHNSLHAADVAQSTHV  
LLSTPALDAVFTDLEILAAIFAAAIHDVDHPGVSNQFLINTNSELALMYNDESVLNHHL  
AVGFKLLQEEHCDIFMNLTKKQRQTLRKVIDMVLATDMSKHMSLLADLKTMTVETKKVTS  
SGVLLLDNYTDRIQVLRNMVHCADLSNPTKSLELYRQWTDRIEMEFPQQGDKERERGMEI  
SPMCDKHTASVEKSQVGFIDYIVHPLWETWADLVQPD AQDILD TLEDNRN WYQSMIPQSP  
SPPLDEQNRDCQGLMEKFQFELTLDEEDSEGPEKEGEGHSYFSSTKTL CVIDPENRDSL  
G ETDIDIATEDKSPVDT

>sp|P51160|PDE6C\_HUMAN Cone cGMP-specific 3',5'-cyclic phosphodiesterase subunit alpha'  
OS=Homo sapiens GN=PDE6C PE=1 SV=2

MGEINQVAVEKYLEENPQFAKEYFDRKL RVEVLGEIFKNSQVPVQSSMSFSELTQVEESA  
LCLELLWTVQEEGGTPEQGVHRLQRLAHL LQADRC SMFLCRSRNGIPEVASRLLDVTPT  
SKFEDNLVGPDKVEVFP LDIGIVGWAAHTKKTHNPV DKKNSHFSDFMDKQTGYVTKNLL  
ATPIVVGKEVLAVIMAVNKNVASEFSKQDEEVFSKYLNFVSIILRLHHTSYMYNIESRRS  
QILMWSANKVFEELTDVERQFHKALYTVRSYLN CERYSIGLLDMTKEKEFYDEWPIKLGE  
VEPYKGPKTPDGREVN FYKI IDYILHGKEEIKV IPTPPADHWTLISGLPTYVAENGFCN  
MMNAPADEYFTFQKGPVDETGWVIKNVLSLP IVNKKEDIVGVATFYNRKD GKPFD EHD EY  
ITETLTQFLGWSLLNTD TYDKMNKLENRKDIAQEMLMNQTKATPEEIKSILKFQEKL NVD  
VIDDCEEKQLVA I LKEDLPDRSAELYEF RFSDFPLTEHGLIKCGIRLFFEINVVEKFKV  
PVEVLTRWMTVTRKGYRAV TYHNWRHGFNVGQTMFTLLMTGRLKKYYTDLEAFAMLA AAF  
CHDIDHRGTNNLYQMKSTSPLARLHGSSIL ERHHLEYSKTLLQDESLNIFQNLNKRQFET  
VIHLFEVAIIATDLALYFKKRTMFQKIVDACEQM QT EEEAIKYVTVDPTKKEIIMAMMT  
ACDLSAITKPWEVQSQVALMVANEFWEQGD LERTVLQQQPIPMMDRNKRDEL PKLQVGF I

DFVCTFVYKEFSRFHKEITPMLSGLQNNRVEWKSLADEYDAKMKVIEEEAKKQEGGAEKA  
AEDSGGDDKKSKTCLML

>sp|060658|PDE8A\_HUMAN High affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic  
phosphodiesterase 8A OS=Homo sapiens GN=PDE8A PE=1 SV=2

MGCAPSIHISERLVAEDAPSPAAPPLSSGGPRLPQGQKTAALPRTRGAGLLESELRDGSG  
KKVAVADVQFGPMRFHQDQLQVLLVFTKEDNQCNGFCRACEKAGFKCTVTKEAQAVLACF  
LDKHHDI I I DHRNPRQLDAEALCRSIRSSKLSSENTVIVGVVRRVDREELSVMPFISAGF  
TRRYVENPNIMACYNELLQLEFGEVRSQKLKACNSVFTALENSEDAIEITSEDRFIQYA  
NPAFETTMGYQSSELIGKELGEVPINEKKADLLDTINSCIRIGKEWQGIYAKKNGDNI  
QQNVKIIPVIGQGGKIRHYVSIIRVCNGNNAEKISECVQSDTHTDNQTGKHKDRRKGS  
LDVAVASRATEVSSQRRHSSMARIHSMTIEAPITKVINIINAAQESSMPVTEALDRVLE  
ILRTTELYSPQFGAKDDDPHANDLVGGLMSDGLRRLSGNEYVLSTKNTQMVSSNIITPIS  
LDDVPPRIARAMENEEYWDFDIFELEAATHNRPLIYLGLKMFARFGICEFLHCSESTLRS  
WLQIEANYHSSNPYHNSTHSADVLHATAYFLSKERIKETLDPIDEVAALIAATIHVDVH  
PGRTNSFLCNAGSELAILYNDTAVLESHHAALAFQLTTGDDKCNIFKNMERNDYRTL RQG  
IIDMV LATEMTKHFHVNK FVNSINKPLATLEENGETDKNQEVINTMLRTPENRTL I KRM  
LIKCADVSNPCRPLQYCIEWAARISEEYFSQTDEEKQQGLPVVMPVFD RNTCSIPKSQIS  
FIDYFITDMFDAWDAFVDLPDLMQHL DNNFKYWKGLDEMKL RNL RPPPE

>sp|P04085|PDGFA\_HUMAN Platelet-derived growth factor subunit A OS=Homo sapiens GN=PDGFA  
PE=1 SV=1

MRTLACLLLLGCGYLAHVLAEEAEIPREVIERLARSQIHSIRDLQRLL EIDSVGSEDSLD  
TSLRAHGVHATKHVPEKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIW  
PPCVEVKRCTGCCNTSSVKCQPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLECA  
T TSLNPDYREEDTGRPRESGKKRKRKRLKPT

>sp|Q9NRA1|PDGFC\_HUMAN Platelet-derived growth factor C OS=Homo sapiens GN=PDGFC PE=1  
SV=2

MSLFGLLLLT SALAGQRQGTQAESNLSSKFQFSSNKEQNGVQDPQHERIITVSTNGSIHS  
PRFPHTYPRNTVLVWRLVAVEENVWIQLTFDERFGLEDPEDDICKYDFVEVEEPSDGTIL  
GRWCGSGTVPGKISKGNQIRIRFVSDEYFPSEPGFCIHYNIVMPQFTEAVSPSVLP  
PSA LPLDLLNNAITAFSTLEDLIRYLEPERWQLDLEDLYRPTWQLLGKAFVFGRKSRVVDLNL  
LTEEVRLYSCTPRNFSVSIREELKRTDTIFWPGCLLVKRCGGNCACCLHNCNEQCVP  
SK VTKKYHEVLQLRPKTGVRGLHKS LTDVALEHHECDCVCRCSTGG

>sp|Q29RF7|PDS5A\_HUMAN Sister chromatid cohesion protein PDS5 homolog A OS=Homo sapiens  
GN=PDS5A PE=1 SV=1

MDFTAQPKPATALCGVVSADGKIAYPPGVKEITDKITTDEMIKRLKMVVKTFMDMDQDSE  
DEKQQYLPLALHLASEFFLRNPKNKDVRLLVACCLADIFRIYAPEAPYTS HDKLDIFLFI  
TRQLKGL EDTKSPQFNRYFYLL ENLAWKSYNICEFELEDCNEIFIQLFRTLFSVINNSHN  
KKVQM HMLDLMSSIIMEGDGVTQEL LDSILINLIPAHKNLNKQSFDAKVLLKRTVQTIE  
ACIANFFNQVLVLGRSSVSDLSEHVFDLIQELFAIDPHLLLSVMPQLEFKLSNDGEERL  
AVVRLAKLFGSKSDLATQNRPLWQCFLGRFNDIHVPVRLESVKFASHCLMNHPDLAKD  
LTEYLKVRSHDPEEAI RHDVIVTIIITAAKRDLALVNDQLLG FVRERTLDRWRVRKEAMM  
GLAQLYKKYCLHGEAGKEAAEKVSWIKDKLLHIYYQNSIDDKLLVEKIFAQYLVPHNLET  
EERMKCLYYLYASLDPNAV KALNEMWKCQNMLRSHVRELLDLHKQPTSEANCSAMFGKLM  
TIAKNLPDPGKAQDFVKKFNQVLGDDEKLRSQLELLISPTCCKQADICVREIARKLANP

KQPTNPFLMVKFLLERIAPVHIDSEAISLVKLMNKSIEGTADDEEEGVSPDTAIRSGL  
ELLKVLSTHPTSFHSAETYESLLQCLRMEDDKVAEAAIQIFRNTGHK IETDLPQIRSTL  
IPILHQKAKRGTPHQAQAVHC IHAIFTNKEVQLAQIFEPLSRSLNADVPEQLITPLVSL  
GHISMLAPDQFASPMKSVVANFIVKDLLMNRSTGEKNGKLWSPDEEV SPEVLAKVQAIK  
LLVRWLLGMKNNQSKSANSTLRLLSAMLVSEGDLTEQKRISKSDMSRLRLAAGSAIMKLA  
QEPCYHEIITPEQFQLCALVINDECYQVRQIFAQKLHKALVKLLLPLEYMAIFALCAKDP  
VKERRAHARQCLLNISIRREYIKQNPIMATEKLLSLLPEYVVPYMIHLLAHDPDFTRSQD  
VDQLRDIKECLWFMLEVLMTKNENNSHAFMKKMAENIKLTRDAQSPDESKTNEKLYTVCD  
VALCVINSKSALCNADSPKDPVLPMPKFFTQPEKDFCNDKSYISEETRVLLL TGKPKPAGV  
LGAVNKPLSATGRKPVVRSTGTETGSNINVNSELNPSTGNRSREQSSEAAETGVSENEEN  
PVRIISVTPVKNIDPVKNKEINSDQATQGNISSDRGKKRTVTAAGAENIQKKTDEKVDES  
GPPAPSKPRRRRPKSESQGNATKNDDL NKPINKGRKRAAVGQESPGGLEAGNAKAPKLQ  
DLAKKAAPAERQIDLQR

>sp|Q9H1Q7|PED1A\_HUMAN PC-esterase domain-containing protein 1A OS=Homo sapiens GN=PCED1A  
PE=1 SV=1

MVFCLSSEEP RRRPLRSDMVHFQASEVQQLLHNKFVVILGDSIQRAVYKDLVLLLQKDSLL  
TAAQLKAKGELSFEQDQLVAGGQLGELHNGTQYREVRQFCSGSGHHLVRFYFLTRVYSEY  
LEDVLEELTYGPAPDLVIINSLWDL SRYGRCSMESYRENLERVFVRMDQVLPDSCLLVW  
NMAMPLGERITGGFLLPELQPLAGSLRRDVVEGNFY SATLAGDHC FDLHLHFHFRHAVQ  
HRHRDGVHWDQHAHRHLSHLLTHVADAWGVELPKRGYPDPWIEDWAEMNHFPQGSHRQ  
TPDFGEHLALLPPPPSSLPPMPFPYPLPQSPPPLPPLPQDTPFFPGQFPFPHEFFNY  
NPVEDFSMPPHLGC GPGVNFVPGPLPPP IPGPNPHGQHWGPVVHRGMPRYVPNSPYHVRR  
MGGPCRQRLRH SERLIHTYKLD RRP PAHSGTWP G

>sp|Q9HAT8|PELI2\_HUMAN E3 ubiquitin-protein ligase pellino homolog 2 OS=Homo sapiens  
GN=PELI2 PE=1 SV=1

MFSPGQEEHCAPNKEPVKYGELVVLGYNGALPNGDRGRKSRFALYKRPKANGVKPSTVH  
VISTPQASKAISCKGQHSISYTL SRNQTVVVEYTHDKDTDMFQVGRSTESPIDFVVTDTI  
SGSQNTDEAQITQSTISRFA CRIVCDRNEPYTARIFAAGFDSSKNIFLGEKAAKWKNPDG  
HMDGLTTNGVLVMHPRGGFTEESQPGVWREISVCGDVYTLRETRSAQQRGKLVESETNVL  
QDGSIDL CGATLLWRTADGLFHTPTQKHIEALRQEINAARPQCPVGLNTLAFPSINRKE  
VVEEKQPWAYLSCGHVHGYHNWGHRSDEANERECPMC RTVGPPYVPLWLGCEAGFYVDAG  
PPHTAFTPCGHVCEKSAKYWSQIPLPHGTHAFHAACPF CATQLVGEQNCIKLIFQGPID

>sp|Q8N2H9|PELI3\_HUMAN E3 ubiquitin-protein ligase pellino homolog 3 OS=Homo sapiens  
GN=PELI3 PE=1 SV=2

MVLEGNPEVGSPTS DLQHRGNKGSCVLSSPGEDAQPGE EPIKYGELIVLGCCEEGGEET  
EAQRGEVTGPRAHSCYNGCLASGDKGRRRSRLALSRRSHANGVKPDVMHHISTPLVSKAL  
SNRGQHSISYTL SRSHSVIVEYTHDSDTDMFQIGRSTENMIDFVVTDTSPGGGAAEGPSA  
QSTISRYACRILCDRRPPYTARIYAAGFDASSNIFLGERAAKWRTPDGLMDGLTTNGVLV  
MHPAGGFSEDSAPGVWREISVCGNVYTLRDSRSAQQRGKLVENESNVLQDGSIDL CGAT  
LLWRTPAGLLRAPTLKQLEAQRQEANAARPQCPVGLSTLAFPSARGRTAPDKQPWVYV  
RCGHVHGYHGWGCR RERGPQERECPLCRLVGPYVPLWLGQEAGLC LDPGPPSHAFAPCGH  
VCSEKTARYWAQTPLPHGTHAFHAACPFCAWLTGEHGCVRLIFQGPLD

>sp|Q96RR1|PEO1\_HUMAN Twinkle protein, mitochondrial OS=Homo sapiens GN=PEO1 PE=1 SV=1  
MWVLLRSGYPLRIILLPLRG EWMGRRLPRNLAPGPPRRRRYKETLQALDMPVLPVTATEI

RQYLRGHGIPFQDGHSCLRALSPFAESSQLKGQTVTTSFSLFIDKTTGHFLCMTSLAEG  
SWEDFQASVEGRGDGAREGFLLSKAPEFEDSEEVRRRIWNRAIPLWELPDQEEVQLADTMF  
GLTKVTDDTLKRFSVRYLRPARSLVFPWFSPGSGRLGLKLEAKCQGDGVSYEETTIPR  
PSAYHNLFGPLISRRAEVLTSRELSLALNQSTGLPTLTLPRGTTCLPPALLPYLEQ  
FRRIVFWLGDDLRSWEAAKLFARKLNPKRCFLVRPGDQQPRPLEALNGGFNLSRILRTAL  
PAWHKSIVSFRQLREEVLGELSNVEQAAGLRWSRFPDLNRILKGRKGGELTVFTGPTGSG  
KTTFISEYALDLCSGQVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRFED  
LPLYFMTFHGQQSIRTVIDTMQHAVVYVDICHVIIDNLQFMMGHEQLSTDRIAQDYIIG  
VFRKFATDNNCHVTLVIHPRKEDDDKELQTASIFGSAKASQEADNVILQDRKLVTPGPK  
RYLQVSKNRFDGDVGVPLEFNKNSLTFSIPPKNKARLKKIKDDTGPVAKKPSSGKKGAT  
TQNSEICSGQAPTPDQPDTSKRSK

>sp|PODJD8|PEPA3\_HUMAN Pepsin A-3 OS=Homo sapiens GN=PGA3 PE=1 SV=1

MKWLLLLGLVALSECIMYKVPLIRKKSRLRTLSEGLLKDFLKKHNLNPARKYFPQWKAP  
TLVDEQPLENYLDMYFGTIGITPAQDFTVVFDTGSSNLWVPSVYCSSLACTNHNRFNP  
EDSSTYQSTSETVSITYGTGSMTGILGYDTVQVGGISDTNQIFGLSETEPGSFLYAPFD  
GILGLAYPSISSSGATPVFDNIWNQGLVSQDLFSVYLSADDQSGSVVIFGGIDSSYYTGS  
LNWVPVTEGYWQITVDSITMNGEAIACAEGCQAIVDTGTSLLTGPTSPIANIQSDIGAS  
ENSDGDMVVSCSAISSLPDIVFTINGVQYPVPPSAYILQSEGSCISGFQGMNLPTESGEL  
WILGDVFIRQYFTVFDNRANNQVGLAPVA

>sp|Q6TCH7|PAQR3\_HUMAN Progesterone and adipoQ receptor family member 3 OS=Homo sapiens  
GN=PAQR3 PE=1 SV=2

MHQKLLKSAHYIELGSYQYWPVLVPRGIRLYTYEQIPGSLKDNPIYITDGYRAYLPSRLCI  
KSLFILSNETVNIWSHLLGFFLFFTLGIYDMTSVLPSASASREDFVICSICLFCFQVCML  
CSVGYHLFSCHRSEKTCRRWMALDYAGISIGILGCYVSGVFYAFYCNNYWRQVYLITVLA  
MILAVFFAQIHPNYLTQQWQRLRSIIFCSVSGYGVIPTLHWVWLNNGGIGAPIVQDFAPRV  
IVMYMIALLAFLFYISKVPERYFPGQLNYLGSSHQIWHILAVVMLYWWHQSTVYVMQYRH  
SKPCPDYVSHL

>sp|Q6ZVX9|PAQR9\_HUMAN Progesterone and adipoQ receptor family member 9 OS=Homo sapiens  
GN=PAQR9 PE=2 SV=1

MPRRLQPRGAGTKGPPAPAPAASGAARNSHSAASRDPPASAKPLLRWDEVPPDFVECFIL  
SGYRRLPCTAQECLASVLKPTNETLNFETHFIPLLLFLSKFCRLFFLSGGDVFPFHPWLL  
PLWCYASGVLLTFAMSCAHVFSCLSRLRAAFFYLDYASISYYGFGSTVAYYYYYLLPGL  
SLLDARVMTPLYLQRLGWHVDCTRLIAAYRALVLPVAFVLAVACTVACCKSRTDWCTYPF  
ALRTFVFVMPLSMACPIMLESWFLDLRGENPTLFVHFYRRYFWLVAAFFNVSKIPERIQ  
PGLFDIIGHSHQLFHIFTFLSIYDQVYVVEEGLRQFLQAPPAAPTFSGTVGYMLLLTVCL  
GLVIRKFLNSSEFCSSK

>sp|Q53GL7|PAR10\_HUMAN Poly [ADP-ribose] polymerase 10 OS=Homo sapiens GN=PARP10 PE=1  
SV=2

MVAMAEAEAGVAVEVRGLPPAVPDELLTLYFENRRRSGGGPVLSWQRLGCGVLTFRIPA  
DAERVLAAQADHELHGAQLSLRPAPPRAPARLLLQGLPPGTTQRLQHVQALLRASGLPV  
QPCCALASPRPDRLVQLPKPLSEADVRVLEEQAQNLGLEGLTVSLARVPQARAVRVVGD  
GASVDLLLLLELYENERRSGGGPLEDLQRLPGPLGTVASFQQWQVAERVLQQEHLQGCSE  
LSLVPHYDILEPEELAENTSGGHPSTQGPRATKHALLRTGGLVTALQAGAGVTMGSGEE  
PGQSGASLRTGPMVQGRGIMTTGSGQEPGQSGTSLRTGPMGSLGQAEQVSSMPMGSLHE

GLVSLRPVGLQEQEGPMSLGPVGSAGPVETSKGLLGQEGLVEIAMDSPEQEGLVGPMET  
MGSLEKAGPVSPGCVKLAGQEGLVEMVLLMEPGAMRFLQLYHEDLLAGLGDVALLPLEGP  
DMTGFRLCGAQASCQAAEEFLRSLLSISCHVLCLEHPGSARFLLGPEGQHLLQGLEAQF  
QCVFGTERLATATLDTGLEEVDPTALPVLPGNAHTLWTPDSTGGDQEDVSLEEVRELLA  
TLEGLDLDGEDWLPRELEEEGPQEPEEEVTPGHEEEEPVAPSTVAPRWLEEEAALQLAL  
HRSLEPQQQVAEQEEAAALRQALTSLLEQPPLEAEPPDGGTDGKAQLVVHSAFEQDVE  
ELDRALRAALEVHVQEETVGPWRRTLPAELRARLERCHGVSVLRGDCITLRGFGAHPAR  
AARHLVALLAGPWDQSLAFPLAASGPTLAGQTLKGPWNNLERLAENTGEFQEVVRAFYDT  
LDAARSSIRVVRVERVSHPLLQQQYELYRERLLQRCERRPVEQVLYHGTTAPAVPDICAH  
GFNRSFCCRATVYKGVYFARRASLSVQDRYSPPNADGHKAVFVARVLTGDYGGRRGL  
RAPPLRGPVHLLRYDSAVDCCQPSIFVIFHDTQALPHLITCEHVPRASPDDPSGLPG  
RSPDT

>sp|Q9NPB6|PAR6A\_HUMAN Partitioning defective 6 homolog alpha OS=Homo sapiens GN=PAR6A  
PE=1 SV=1

MARPQRTPARSPDSIVEVSKSFDAAEFRRFALPRASVSGFQEFSSRLRAVHQIPGLDVLLG  
YTDAGDLLPLTNDDSLHRLASGPPPLRLLVQKRAEADSSGLAFASNSLQRRKKGLLLR  
PVAPLRTRPPLLISLPQDFRQVSSVIDVDLLPETHRRVRLHKHGS DRPLGFYIRDGMSVR  
VAPQGLERVPGIFISRLVRGGLAESTGLLAVSDEILEVNGIEVAGKTLQVTDMMVANSH  
NLIVTVK PANQRNNVVRGASGRLTGPPSAGPGAEPDSDDDSSDLVIENRQPPSSNGLSQ  
GPCCWDLHPGCRHPGTRSSLPSLDDQEQASSGWSRIRGDGSGFSL

>sp|Q8IV76|PASD1\_HUMAN Circadian clock protein PASD1 OS=Homo sapiens GN=PASD1 PE=1 SV=1

MKMRGEKRRDKVNP KSSQRKLNWIPSFTYDYFNQVTLQLLDGFMITLSTDGVIICVAEN  
ISSLLGHLPAEIVGKKLLSLPDEEKDEVYQKIILKFPLLNSETHIEFCCHLKRGVNEHG  
DSSAYENVKFIVNVRDICNEFPVVFSGLFSSHLCADFAACVPQEDRLYLGNVCILRTQL  
LQQLYTSKAVSDEAVLTQDSDEEPFVGELSSSQGQRGHTSMKAVYVEPAAAAAAAI SDD  
QIDIAEVEQYGPQENVHMFVDSSTYCSSTVFLDTPESPALS LQDFRGEPEVNPLYRAD  
PVDLEFSVDQVSDVQEGPMDQDPENPVAPLDQAGLMDPVPDPEDSVDLGAAGASAQPLQ  
PSSPVAYDIISQELELMKKLKEQLEERTWLLHDAIQNQQNALELMMDHLQKQPNTLRHV  
IPDLQSSEAVPKKQKQHAGQVKRPLPHPKDVKCFGLSLSNSLKN TGELQEPCVAFNQQ  
QLVQQEQHLKEQQRQLREQLQQLREQRKVQKQKMQEKKKLQE QKMQEKKKLQE QRRQKK  
KKLQERKKWQGMLKEPEEEQKQQLQEQLKHNVI VGNERNVQICLQNPDRVSVPLCNH  
PVRFLQAQPIVPVQRAAEQQPSGFYQDENCQQEDESQSFYPEAYQGPVNQLPLIDTSN  
SEAISSSSIPQFPITSDSTISTLETPQDYIRLWQELSDSLGPVVQVNTWSCDEQGLHGQ  
PTYHQVQVSEVGVEGPPDPQAFQGAAYQPDQMRSAEQTRLMPAEQRDSN KPC

>sp|Q8WXA2|PATE1\_HUMAN Prostate and testis expressed protein 1 OS=Homo sapiens GN=PATE1  
PE=1 SV=1

MDKSLLELPILLCCFRALSGSLSMRNDVNEIVAVKNNFPVIEIVQCRMCHLQFPGEKC  
SRGRGICTATTEEACMVGRMFKRDGNPWLTFMGCLKNCADVKGIRWSVYLVNFRCCRSHD  
LCNEDL

>sp|POC8F1|PATE4\_HUMAN Prostate and testis expressed protein 4 OS=Homo sapiens GN=PATE4  
PE=2 SV=2

MRKMNTLLLVSLSFLYLKEVMGLKCNTCIYTEGWKCMAGRGTCTIAKENELCSTTAYFRGD  
KHYSTHMCKYKCREEESSKRGLLRVTLCCDRNFCNVF



>sp|Q9HBE1|PATZ1\_HUMAN POZ-, AT hook-, and zinc finger-containing protein 1 OS=Homo sapiens GN=PATZ1 PE=1 SV=1

MERVNDASCGPSGCTYQVSRHSTEMLHNLNQQRKNGGRFCDVLLRVGDESFPRAHRAVLA  
ACSEYFESVFSQQLGDGAADGGPADVGGATAAPGGGAGGSRELEMHTISSKVFGDILDF  
AYTSRIVVRLESFPELMTAAKFLLMRSVIEICQEVIKQSNVQILVPPARADIMLFRPPGT  
SDLGFPLDMTNGAALAANSNGIAGSMQPEEEAARAAGAAIAGQASLPVLPGVDRPLPMVAG  
PLSPQLLTSPFPSVASSAPPLTGKRGRGRPRKANLLDSMFGSPGGLREAGILPCGLCGKV  
FTDANRLRQHEAQHGVTSLQLGYIDLPPRLGENGLPISEDPDGPRKRSRTRKQVACEIC  
GKIFRDVYHLNRHKLSHSGEKPYPSCPVCGLRFKRKDRMSYHVRSHDGSVGKPYICQSCGK  
GFSRPDHLNGHIKQVHTSERPHKCQTCNASFATRDRLRSHLACHEDKVPCQVCGKYLRAA  
YMADHLKKHSEGPSNFCSICNRGFSSASYLVHVKTHHGVPLPQVSRHQEPILNGGAAPH  
CARTYGNKEGQKCSHQDPIESSDSYGDLSADSLKTPEKQSANGSFSCDMAVPKNKMESD  
GEKKYPCPECGSFRRSKSYLNKHIQKVHVRALGGPLGDLGPALGSPFSPQQNMSLLESFG  
FQIVQSAFASSLVDPEVDQQPMGPEGK

>sp|043316|PAX4\_HUMAN Paired box protein Pax-4 OS=Homo sapiens GN=PAX4 PE=1 SV=1

MHQDGISSMNQLGGLFVNGRPLPLDTRQQIVRLAVSGMRPCDISRILKVSNGCVSKILGR  
YYRTGVLEPKGIGGSKPRLATPPVVARIAQLKGECPALFAWEIQRQLCAEGLCTQDKTPS  
VSSINRVLRALQEDQGLPCTRLRSPAVLAPAVLTPHSGSETPRGTHPGTGHRNRTIFSPS  
QAEALEKEFQRGQYPDSVARGKLATATSLPEDTVRVWFSNRRAKWRRQEKLKWEMQLPGA  
SQGLTVPRVAPGIISAQQSPGSVPTAALPALEPLGPSCYQLCWATAPERCLSDTPPKACL  
KPCWDCGSFLLPVIAPSCVDVAWPCLDASLAHHLIGGAGKATPTHFSHP

>sp|P23759|PAX7\_HUMAN Paired box protein Pax-7 OS=Homo sapiens GN=PAX7 PE=1 SV=4

MAALPGTVPRMMRAPGQNYPRTGFPLEVSTPLGQGRVNQLGGVFINGRPLPNHIRHKIV  
EMAHHGIRPCVISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPRQVATPDVEKKIEE  
YKRENPGMFSWEIRDRLKDGHCDRSTVPSGLVSSISRVLRIFKGKKEEEDADKKEDDG  
EKKAKHSIDGILGDKGNRLDEGSDVESEPDLPKRRKRRSRTTFTAEQLEELEKAFERTH  
YPDIYTREELAQRKLTARVQVWFSNRRARWRKQAGANQLAAFNHLLPGGFPTGMPTL  
PPYQLPDSTYPTTISQDGGSTVHRPQLPPSTMHQGGLAAAAAADTSSAYGARHSFSS  
YSDSFMNPAAPSNNMNPVSNGLSPQVMSILGNPSAVPPQPQADFSISPLHGGLDSATSIS  
ASCSQRADSIKPGDSLPTSQAYCPPTYSTTGYSVDPVAGYQYQYQGTAVDYLAKNVSL  
TQRRMKLGEHSAVLGLLPVETGQAY

>sp|Q9Y5B6|PAXBP1\_HUMAN PAX3- and PAX7-binding protein 1 OS=Homo sapiens GN=PAXBP1 PE=1 SV=2

MFRKARRVNVKRNDSEEEERERDEEQEPPLPPPGTGEEAGPGGGDRAPGGESLLGPG  
PSPPSALTPLGAEAGGGFPGGAEPGNLKPKRPRENKEVPRASLLSFQDEEEENEVVF  
KVKKSSYSKKIVKLLKKEYKEDLEKSKIKTELNSSAESEQPLDKTGHVKDTNQEDGVIIS  
EHGEDEMDMESEKEEEKPKTGGAFFSNALSSNLVLRPGEIPDAAFIAARKKRQMARELGD  
FTPHDNEPGKRLVREDENDASDDEDDDEKRRIVFSVKEKSQRQKIAEEIGIEGSDDDAL  
VTGEQDEELSRWEQEQIRKGINIPQVQASQPAEVNMYQNTYQTMPYGSYGIPYSYTAY  
GSSDAKSQKTDNTVPFKTPSNEMTPVTIDLKVKQLKDRLDMSMKELHKTNRQQHEKHLQSR  
VDSTRAIERLEGSSGGIGERYKFLQEMRGYVQDLLECFSEKVPLINELESATIHQLYKQRA  
SRLVQRRQDDIKDESSEFSSHSNKALMAPNLDSEFGRDRALYQEHAKRRIAEREARRTRRR  
QAREQTGMADHLEGLSSDDEETSTDITNFNLEKDRISKESGKVFEDVLESFYSIDCIKS  
QFEAWRSKYTTSYKDAYIGLCLPKLFNPLIRLQLLTWTPLEAKCRDFENMLWFESLLFYG

CEEREQEKDDVDVALLPTIVEKVILPKLTVIAENMWDPFSTTQTSRMVGITLKLINGYPS  
VVNAENKNTQVYLKALLLRMRRTLDDDVFMPLYPKNVLENKNSGPYLFFQRQFWSSVKLL  
GNFLQWYGIFSNTKLQELSIDGLLNRYILMAFQNSEYGDDSIKKAQNVINCFPKQWFMNL  
KGERTISQLENFCRYLVHLADTIYRNSIGCSDVEKRNARENKQIVKLLASVRALDHAMS  
VASDHNVKEFKSLIEGK

>sp|Q96AQ6|PBIP1\_HUMAN Pre-B-cell leukemia transcription factor-interacting protein 1  
OS=Homo sapiens GN=PBXIP1 PE=1 SV=1

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEG  
TLFQTESPQSGSILTEETEVEKGTLEGDVCGVEPPGPGDTVVGDLQETT VVTGLGPD TQD  
LEGQSP PQSLPSTPKAAWIREEGRCSSDDDDTDVDMEGLRRRRGREAGPPQPMVPLAVEN  
QAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLESETGPMEEVERQVLPDPEVLE  
AVGDRQDGLREQLQAPVPPDSVPSLQNMGLLLDKLAKENQDIRLLQAQLQAQKEELQSLM  
HQPKGLEEEENAQLRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGP  
QGDKAIREQGPREQEPELSFLKQKEQLEAEAQALRQELERQRRLG SVQQDLERSLQDAS  
RGDPAHAGLAELGHRLAQKLQGLENWGDPGV SANASKAWHQKSHFQNSREWSGKEKWW  
GQRDRKAEHWKHKKEESGRERKKNWGGQEDREPAGRWKEGRPRVEESGSKKEGKRQGPKE  
PPRKSGSFHSSGEKQKQPRWREGTKDSDHPLPSWAELLRPKYRAPQGC SGVDECARQEGL  
TFFGTE LAPVRQELASLLRTYLARLPWAGQLTKELPLSPAFFGEDGIFRHDRLRFRDFV  
DALEDSLEEVAVQQTGDDDEVDDFEDFIFSHFFGDKALKKRSGKKDKHSQSPRAAGPREG  
HSHSHHHHHRG

>sp|P30039|PBLD\_HUMAN Phenazine biosynthesis-like domain-containing protein  
OS=Homo sapiens GN=PBLD PE=1 SV=2

MKLPIFIADAFTARAFRGNPAAVCLLENELDEDMHQKIAREMNLSETAFIRKLHPTDNFA  
QSSCFGLRWFTPASEVPLCGHATLASAAVL FHKIKNMNSTLT FVTLSGELRARRAEDGIV  
LDLPLYPAHPQDFHEVEDLIKTAIGNTLVQDICYSPDTQKLLVRLSDVYNRSFLENLKVN  
TENLLQVENTGKVKGLILTLKGEPGGQTQAFDFYSRYFAPWVGVAEDPVTGSAHAVLSSY  
WSQHLGKKEMHAFQCSHRGGELGISLRPDGRVDIRGGA AVVLEGT LTA

>sp|E2RYF7|PBMU2\_HUMAN Protein PBMUCL2 OS=Homo sapiens GN=HCG22 PE=2 SV=1

MPRYVPLLLLLLLLLRCSERGGGVNFGEKDAKVPGTWRDGV RVPGE GASWSDRAS PERRY  
GIVGLSQSISTKHPETSPKDSRIRENDVTADGRTTEDHITADPGTTEDSVTADPGTTEDN  
VTVDPGTTEG SVTADPATTKDYVSADPGTTKDSVTADPGTTENFVTADPGTTKDSITADP  
RTTEDSVTADPGTTKHSITVDPGTTEDSVTADPGTTKHSITADPGTTEDSVTADPGTTED  
ETTKHGDTHLL

>sp|P40426|PBX3\_HUMAN Pre-B-cell leukemia transcription factor 3 OS=Homo sapiens GN=PBX3  
PE=1 SV=1

MDDQSRMLQTLAGVNLAGHSVQGGMALPPPHGHEGADGDGRKQDIGDILHQIMTITDQS  
LDEAQAKKHALNCHRMKPALFSVLCEIKEKTGLSIRGAQEEDPPDPQLMRLDNMLLAEGV  
SGPEKGGGSAAAAAAAAASGGSSDNSIEHSDYRAKLTQIRQIYHTELEKYEQACNEFTTH  
VMNLLREQSRTRPISPKEIERMVGIIHRKFSSIQMLKQSTCEAVMILRSRFLDARRKRR  
NFSKQATEILNEYFYSHLSNPYPSEEAKEELAKKCSITVSQVSNWFGNKRIRYKKNIGKF  
QEEANLYAAKTAVTAAHAAAAVQNNQTNSTPTPNSGSSGSFNLPSNGDMFMNMQSLNGD  
SYQGSQVGANVQSQVDTLRHVINQTGGYSDGLGGNSLYSPHNLNANGGWQDATT PSSVTS  
PTEGPGSVHSDTSN

>sp|Q8NF37|PCAT1\_HUMAN Lysophosphatidylcholine acyltransferase 1 OS=Homo sapiens  
GN=LPCAT1 PE=1 SV=2

MRLGCGPRAAPASSAGASDARLLAPPGRNPFVHELRLSALQKAQVALMTLTLFPVRLLV  
AAAMMLLAWPLALVASLGSAEKEPEQPPALWRKVVDLFLKAIMRTMWFAGGFHRVAVKGR  
QALPTEAAILTLAPHSSYFDAIPVTMTMSSIVMKAESRDIPIWGTLIQYIRPVFVSRSDQ  
DSRRKTVEEIKRRAQSNGKWPQIMIFPEGTCTNRTCLITFKPGAFIPGAPVQPVVLRYPN  
KLDITITWTWQGGPALEILWLTLCQFHNQVEIEFLPVYSPSEEEKRNPALYASNRRVMAE  
ALGVSVDYTFEDCQLALAEGLRLPADTCLLEFARLVRLGLKPEKLEKDLDRYSERAR  
MKGGEKIGIAEFAASLEVPVSDLLEDMSLFDSESGSEVDLRECVVALSVVCRPARTLDT  
IQLAFKMYGAQEDGSVGEGLSCILKTALGVAELTVTDLFRAIDQEEKGITFADFHRFA  
EMYPFAEEYLYPDQTHFESCAETSPAPIPNGFCADSPENDAGRKPVRKKLD

>sp|Q9Y5I2|PCDAA\_HUMAN Protocadherin alpha-10 OS=Homo sapiens GN=PCDHA10 PE=2 SV=1

MVSRCSCLGVQCLLSLLLLAAWEVSGQLHYSVYEEARHGTFVGRIAQDLGLELAELVQ  
RLFRVASKRHGDLLEVNQNGILFVNSRIDREELCGRSVECSIHLEIVDRPLQVFHVDV  
EVKDINDNPPRFVSTEQKLSIPESRLDSRFPLEGASDADVGENALLTYKLSPNEYFVLD  
IINKKDKDKFPVLVLRKLLDREENPQLKLLLTATDGGKPEFTGSVSLLILVLDANDNAPI  
FDRPVYEVKMYENQVNQTLVIRLNASDSDEGINKEMMYSFSSLVPPTIRRKFWINERTGE  
IKVND AIDFEDSNTYIEHVDVTDKGNPPMVGHCTVLVELLDENDNSPEVIVTSLSLPVKE  
DAQVGTVIALISVSDHDSGANGQVTCSLTPHVPFKLVSTYKNYSLVLDALDRERVSAY  
ELVVTARDGGSPPLWATASVSVEADVNDNAPAFQAQSEYTVFVKENPPGCHIFTVSAWD  
ADAQENALVSYSLVERRLGERSLSSYVSVHAESGKVYALQPLDHEEELLLQFQVSARDGG  
VPPLGSNLTQVFLDENDNAPALLASPAGSAGGAVSELVLRSVVAGHVVAKVRAVDADS  
GYNAWLSYELQSAAVGARIPFRVGLYTGEISTTRALDETDSPRQLLVVKDHGEPSLTA  
TATVLVSLVEGSQAPKASSRASVGAPEVALVDNVYLI I AICAVSSLLVLTLLLYTALR  
CSAAPTEGACGPVKPTLVCSSAVGWSYSQRRQRVCSGEGLPKADLMAFSPSLPPCPMV  
DVDGEDQSIGGDHSRKRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTV  
SSATPEPEAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIIPGSPAIISIRQE  
PTNSQIDKSDFITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

>sp|Q9UN75|PCDAC\_HUMAN Protocadherin alpha-12 OS=Homo sapiens GN=PCDHA12 PE=2 SV=1

MVIIGPRPGSQRLLSLLLLAAWEVSGQLHYSVYEEAKHGTFVGRIAQDLGLELAELV  
PRLFRVASKRHGDLLEVNQNGILFVNSRIDREKLGRSAECSIHLEIVDRPLQVFHVD  
VEVKDINDNPPVFREREQKVPVSESAPLDSHFPLEGASDADIGVNSLLTYALSLNENFEL  
KIKTKDKSILPELVLRKLLDREQTPKLNLLMVIDGGKPELTGSVQIQITVLDVNDNGP  
AFDKPSYKVVLSENVQNDTRVIQLNASDPDEGLNGEISYGIKMILPVSEKCMFSINPDTG  
EIRIYGELDFEENNAYEIQVNAIDKGIPSMAGHSMVLVEVLDVNDNVPEVMVTSLSLPVQ  
EDAQVGTVIALISVSDRDSGANGQVICSLTPHVPFKLVSTYKNYSLVLDALDRESVSA  
YELVVTARDGGSPSLWATARVSVEADVNDNAPAFQAQPEYTVFVKENPPGCHIFTVSAW  
DADAQKNALVSYSLVERRVGEHALSSYVSVHAESGKVYALQPLDHEEELLLQFQVSARDA  
GVPLGSNVTLQVFLDENDNAPALLATPAGSAGGAVSELVPRSVGAGHVVAKVRAVDAD  
SGYNAWLSYELQPAAVGAHIPFHVGLYTGEISTTRILDEADAPRHRLLVVKDHGEPALT  
STATVLVSLVENGQAPKTSSRASVGAVDPEAALVDINVYLI I AICAVSSLLVLTLLLYTA  
LRCSAPPTVSRCAPGKPTLVCSSAVGWSYSQRRQRVCSAESPPKTDLMAFSPSLQLSR  
EDCLNPPSEPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTVSSATPEP  
EAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIIPGSPAIISIRQEPTNSQID

KSDFITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

>sp|Q9Y5E2|PCDB7\_HUMAN Protocadherin beta-7 OS=Homo sapiens GN=PCDHB7 PE=2 SV=1

MEARVERAVQKRQVFLCVFLGMSWAGAEPLRYFVAEETERGTFLTNLAKDLGLGVGELR  
ARGTRIVSDQNMQILLSSLTGDLNLLNEKLDREELCGPREPCVLPFQLLEKPFQIFRAE  
LWVRDINDHAPVFLDREISLKILESTTPGAFLLESAQSDVGTNSLSNYTISPNAFYHI  
NVHDSGEGNIYPELVLNQVLDREEIPEFSLTLTALDGGSPPRSGTALVRILVLDVNDNAP  
DFVRSLYKVQVPENSPVGSVMVVSARDLDTGSNGEIAAFSYATERILKTFQINPTSGS  
LHLKAQLDYEAIQTYTLTIQAKDGGGLSGKCTVVVDVTDINDNRPELLSSLTSPIAENS  
PETVAVFRIRDRDSGNGKTVCSIQDDVPFILKPSVENFYTLVTEKPLDRERNTYNTIT  
ITVTDLGTPLRKTEHNITVLVSDVNDNAPFTQTSYTLFVRENNSPALPIGVSATDRDS  
GTNAQVIYSLPSQDPLPLASLVSINADNGHLFALRSLDYEALQAFEFVVGATDRGSPA  
LSSEALVRVLVLDANDNSPFVLYPLQNSSAPCTEPLPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAKQRLVVLVKDNGEPPRSATATLHV  
LLVDGFSQPYLRLPEAAPDQANSLTVYLVVALASVSSLFLLSVLLFVAVRLCRRSRAAPV  
GRCSVPEGPFPRHLVDLSGTGTLSSQSYQYEVCLTGGSGTNEFKFLKPIIPNLLPQSTGRE  
VEENRPFQNNLGF

>sp|Q9Y5E8|PCDBF\_HUMAN Protocadherin beta-15 OS=Homo sapiens GN=PCDHB15 PE=2 SV=1

MEPAGERFPEQRQVLIILLLEVTLAGWEPRRYSVMEETERGSFVANLANDLGLGVGELA  
ERGARVVSSEDNEQGLQLDLQTGQLILNEKLDREKLCGPTEPCIMHFQVLLKKPLEVFRAE  
LLVTDINDHSPEPPEREMTLKIPETSSLTGTVFPLKKARDLDVGSNNVQYNISPNSHFHV  
STRTRGDGRKYPELVLDTELDREEQAEPLRLTLTAVDGGSPPRSGTVQILILVLDANDNAP  
EFVQALYEVQVPENSPVGSLLVVKVSARDLDTGTNGEISYSLYSSQEIDKPFELSSLSGE  
IRLIKLDFFETMSSYDLIEASDGGGLSGKCSVSVKVLDVNDNFPELSSSLTSPIPENS  
PETEVALFRIRDRDSGENGKMICSIQDDVPFKLPSVENFYRLVTEGALDRETRAENYNTIT  
ITITDLGTPLRKTEQSITVLVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVSATDRDS  
GTNAQVTYSLPPRDPHPLTSLVSINTDNGHLFALQSLDYEALQAFEFVVGATDRGFPA  
LSSEALVRVLVLDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDVAKHRLVVLVKDNGEPPRSATATLQV  
LLVDGFSQPYLPLPEAAPAQADSLTVYLVVALASVSSLFVSVFLFVAVRLCRRSRAA  
SVGRCSVPEGPFPGHLVDVSGTGLSSQSYQYEVCLTGGSESNDFKFLKPIFPNIVSQDSR  
RKSEFLE

>sp|Q9BSM1|PCGF1\_HUMAN Polycomb group RING finger protein 1 OS=Homo sapiens GN=PCGF1 PE=1  
SV=2

MASPGGGQIAIAMRLRNQLQSVYKMDPLRNEEEVRVKIKDLNEHIVCCLCAGYFVDATTI  
TECLHTFCKSCIVKYLQTSKYCPMCNIKIHTQPLLNLKLDVMDIVYKLVPLQDSEE  
KRIREFYQSRGLDRVTQPTGEEPALSNLGLPFSSFDHKAHYRYDEQLNLCLELSSGK  
DKNKSVLQNKYVRCSVRAEVRHLRRVLCHRLMLNPQHVLQLLFDNEVLPHMTMKQIWLRSR  
WFGKPSPLLLQYSVKEKRR

>sp|P35227|PCGF2\_HUMAN Polycomb group RING finger protein 2 OS=Homo sapiens GN=PCGF2 PE=1  
SV=1

MHRTTRIKITELNPHLMCALCGGYFIDATTIVECLHSFCKTCIVRYLETNKYCPMCDVQV  
HKTRPLLSIRSDKTLQDIVYKLVPLFKDEMKRRRDFYAAAYPLTEVPNGSNEDRGEVLEQ  
EKGALSDDEIVLSLIEFYEGARDRDEKKGPLENGDGDKEKTGVRFLRCPAAMTMHLAKF  
LRNKMDVP SKYKVEVLYEDEPLKEYYTLMDIAYIYPWRRNGPLPLKYRVQPACKRLTLAT

VPTPSEGTNTSGASECESVSDKAPSPATLPATSSSLPSPATPSHGSPSSHGPPATHPTSP  
TPPSTASGATTAANGGSLNCLQTPSSTSRRKMTVNGAPVPLT

>sp|Q15645|PCH2\_HUMAN Pachytene checkpoint protein 2 homolog OS=Homo sapiens GN=TRIP13  
PE=1 SV=2

MDEAVGDLKQALPCVAESPTVHVEVHQSGSTAKKEDINLSVRKLLNRHNIVFGDYTWTE  
FDEPFLTRNVQSVSIIDTELKVKDSQPIDLSACTVALHIFQLNEDGPSSSENLEEETENII  
AANHWWLPAAEFHGLWDSLVDVEVKSHLLDYVMTTLLFSDKNVNSNLITWNRVLLHGP  
PGTGKTSLCKALAQKLTIRLSSRYRYGQLIEINSHSLFSKWFSESGKLVTKMFQKIQDLI  
DDKDALVFVLIDEVESLTAARNACRAGTEPSDAIRVNAVLTQIDQIKRHSNVVILTSN  
ITEKIDVAFVDRADIKQYIGPPSAAAIFFKIYLSCLEELMKCQIIYPRQQLTLRELEMIG  
FIENNVSKLSLLNDISRKSEGLSGRVLRLPFLAHALYVQAPTVTIEGFLQALSLAVDK  
QFEERKKLAAYI

>sp|P18669|PGAM1\_HUMAN Phosphoglycerate mutase 1 OS=Homo sapiens GN=PGAM1 PE=1 SV=2

MAAYKLVLRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQ  
KRAIRTLWTVLDAIDQMWPVVRTWRLNERHYGGLTGLNKAETAACHGEAQVKIWRRSYD  
VPPPPMEPDHPFYSNISKDRRYADLTEDQLPSCESLKDTIARALPFWNEEIVPQIKEGKR  
VLIAAHGNSLRGIVKHLEGLSEEAIMELNLPGTGPIVYELDKNLKPIKPMQFLGDEETVR  
KAMEAVAAQ GKAKK

>sp|P07205|PGK2\_HUMAN Phosphoglycerate kinase 2 OS=Homo sapiens GN=PGK2 PE=1 SV=3

MSLSKKLTLDKLDVRGRKRVIMRVDFNVPMKKNQITNNQRIKASIPSIKYCLDNGAKAVVL  
MSHLGRPDGVPMPDKYSLAPVAVELKSLGKDVFLKDCVGAEEKACANPAPGSVILLE  
NLRFHVEEEGKGQDPGKKIKAEPDKIEAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVN  
LPHKASGFLMKKELDYFAKALENPVRPFLAILGGAKVADKIQLIKNMLDKVNEMIIGGGM  
AYTFLKVLNNMEIGASLFDEEGAKIVKDIMAKAQKNGVRITFPVDFVTGDKFDENAQVGK  
ATVASGISPGWMLDCGPESNKHAAQVVAQARLIVWNGPLGVFEWDAFAKGTKALMDEIV  
KATSKGCITVIGGGDTATCCAKWNTEDKVSHVSTGGGASLELLEGKILPGVEALSNM

>sp|Q96G03|PGM2\_HUMAN Phosphoglucomutase-2 OS=Homo sapiens GN=PGM2 PE=1 SV=4

MAAPEGSGLGEDARLDQETAQWLRWDKNSLTLEAVKRLIAEGNKEELRKCFGARMEFGTA  
GLRAAMGPGISRMDLTIIQTQGFRCRYLEKQFSDLKQKGIVISFDARAHPSGGSSRRF  
ARLAATTFTISQGI PVYLFSDITPTFPVPFTVSHLKL CAGIMITASHNPKQDNGYKVYWDN  
GAQIIISPHDKGISQAIEENLEPWPQAWDDSLIDSSPLLHNPSASINNDYFEDLKKYCFHR  
SVNRETKVKFVHTSVHGVGHSFVQSFAKFDLVPPEAVPEQKDPDPEFPTVKYPNPEEGK  
GVLTL SFALADKTKARIVLANDPDADRLAVA EKQDSGEWRV FSGNELGALLGWWLFTSWK  
EKNQDRSALKD TYMLSSTVSSKILRAIALKEGFHFETLTGFKWMGNRAKQLIDQGKTVL  
FAFEEAIGYMCCPFVLDKDGVSAAVISAE LASFLATKNLSLSQLKAIYVEYGYHITKAS  
YFICHQDET IKKLFENLRNYDGKNYPKACGKFEISAIRDLT TGYYDDSQPDKKAVLPTSK  
SSQMITFTFANGGVATMRTSGTEPKIKYYAELCAPPGNSDPEQLKKELNELVSAIEEHFF  
QPQKYNLQPKAD

>sp|Q96PD5|PGRP2\_HUMAN N-acetylmuramoyl-L-alanine amidase OS=Homo sapiens GN=PGLYRP2 PE=1  
SV=1

MAQGVWLWILLGLLLWSDPGTASLP LLMSV IQALAELEQKVPAAKTRHTASAWLMSAPNS  
GPHNRLYHFLLAGWSLNATELDPCLSPELLGLTKEVARHDVREGKEYGVVLAPDGSTVA  
VEPLLAGLEAGLQGRRVINLPDLSMAAPWETGDTFPDVVAIAPDVRATSSPGLRDSPPDV  
TTADIGANTPDATKGC PDVQASLPDAKAKSPPTMVDSLLAVTLAGNLGLTFLRGSQTQSH

PDLGTEGCWDQLSAPRTFTLLDPKASLLTMAFLNGALDGVILGDYLSRTPEPRPSLSHLL  
SQYYGAGVARDPGFRSNFRRQNGAALTSASILAQQVWGTLVLLQRLEPVHLQLQCMSQEQ  
LAQVAANATKEFTEAFLGCPAIIHPRCRWGAAPYRGRPKLLQLPLGFLYVHHTYVPAPPCT  
DFTRCAANMRSMQRYHQDTQGWGDIGYSFVVGSDGYVYEGRGWHWVGAHTLGHNSRGFGV  
AIVGNNTAALPTEAALRTVRDTLPSCAVRAGLLRPDYALLGHRQLVRTDCPGDALFDLLR  
TWPHTATVTKPRPARSVSKRSRREPPPTLPATDLQ

>sp|P00439|PH4H\_HUMAN Phenylalanine-4-hydroxylase OS=Homo sapiens GN=PAH PE=1 SV=1

MSTAVLENPGLGRKLSDFGQETSYIEDNCNQNGAISLIFSLKEEVGALAKVLRLEENDV  
NLTHIESRPSRLKKDEYEFFTHLDKRSLPALTNIKILRHDIGATVHELSDKKKDTVPW  
FPRTIQELDRFANQILSYGAELDADHPGFKDPVYRARRKQFADIAYNRYHGQPIPRVEYM  
EEEKKTWGTVFKTLKSLYKTHACYEYNHIFPILLEKYCGFHEDNIPQLEDVSQFLQTCTGF  
RLRPVAGLLSSRDFLGGLAFRVFHTQYIRHGSKPMYTPEPDICHELLGHVPLFSDRSFA  
QFSQEIGLASLGAPDEYIEKLATYWFTEFGLCKQGDSIKAYGAGLLSSFGEQYCLSE  
KPKLLPLELEKTAIQNTYVTEFQPLYVAESFNDAKEKVRNFAATIPRPFSVRYDPYTQR  
IEVLDNTQQLKILADSINSEIGILCSALQKIK

>sp|Q9C0D0|PHAR1\_HUMAN Phosphatase and actin regulator 1 OS=Homo sapiens GN=PHACTR1 PE=1  
SV=3

MDYPKMDYFLDVESAHRLLDVESAQRFFYSQGAQARRATLLLPTLMAASSEDIDRRPI  
RRVRSKSDTPYLAEARISFNLGAAEEVERLAAMRSDSLVPGTHTPPIRRRSKFANLGRIF  
KPWKWRKKKSEKFKHTSAALERKISMRQSREELIKRGVLKEIYDKDGELSISNEEDSLEN  
GQSLSSSLSLPALSEMEPVMPRPDPCSYEVLQPSDIMGDPDGAPVKLPCLPVKLSPL  
PPKKVMICMPVGGPDLSLVSYTAQKSGQQGVAQHHTVLPSTQIQHLQYGSHGQHLPTT  
GSLPMHPSGCRMIDELNKTAMTMRLESSEQRVPCSTSYHSSGLHSGDGVTKAGPMGLP  
EIRQVPTVVIIECDNKENVPHESDYEDSSCLYTREEEEEEEDEDDSSLYTSSLAMKVCR  
KDSLAIKLSNRPSKRELEKNILPRQTDDEERLELRQQIGTKLTRRLSQRPTAEELEQRNI  
LKPRNEQEEQEEKREIKRRLTRKLSQRPTVEELRERKILIRFSDYVEVADAQDYDRRADK  
PWTRLTAADKAAIRKELNEFKSTEMEVHELRLTRFHRP

>sp|075167|PHAR2\_HUMAN Phosphatase and actin regulator 2 OS=Homo sapiens GN=PHACTR2 PE=1  
SV=2

MDNAVDGLDKASIANSDGPTAGSQTPPFKRKGLSTIGKIFKPWKWRKKKTSDFRETSA  
VLERKISTRQSREELIRRGVLKELPDQGDVTNVFENSNGHMIPIGEESTREENVVKSEE  
NGSVSEKTPPLEEQAEDEKKTENHSETPAAPALPPSAPPKPRPKPKKSPVPPKGAT  
AGASHKGDEVPIKKNTPKAPGKQAPVPPPKPASRNTTREAAGSSHSKKTGSKASASPST  
SSTSSRPKASKETVSSKAGTVGTTGKRKTDKQPITSHLSSDTTSGTSDLKGEPATRV  
ESFKLEQTVPGAEEQNTGKFKSMVPPPVAPAPSPLAPPLPLEDQCITASDTPVVLVSVG  
ADLPVSALDPSQLLWAEPTNRTTLYSGTGLSVNRENAKCFITKEELGKTVPQLLTPGLM  
GESSESFSASEDEGHREYQANDSDSDGPILYTDEDEDEDEDEGSGESALASKIRRRDTLA  
IKLGNRPSKKELEDKNILQRTSEERQEIRQQIGTKLVRRLSQRPTTEELEQRNLIKQKN  
EEEEQEAQMELKRRLSRKLSLRPTVAELQARRILRFNEYVEVTDSPDYDRRADKPWARLT  
PADKAAIRKELNEFKSTEMEVHEESRQFTRFHRP

>sp|Q5T6S3|PHF19\_HUMAN PHD finger protein 19 OS=Homo sapiens GN=PHF19 PE=1 SV=1

MENRALDPGTRDSYGATSHLPNKGALAKVKNNFKDLMSKLTGQYVLCRWDGLYYLGKI  
KRVSSSKQSLVTFEDNSKYWVLWKDIQHAGVPGEEPKNICLGKTSGLNEILICGKCG  
LGYHQQCHIPIAGSADQPLLTPWFCRRCIFALAVRKGKALKKGAIARTLQAVKMLVSYQP

EELWDSPHRTNQCCYCYCGGPGEWYLRMLQCYRCRQWFHEACTQCLNEPMMFGDRFYL  
FFCSVCNQGPYIERLPLRWVDVHLALYNLGVQSKKKYDFEEILAFVNHHWELLQLGK  
LTSTPVTDRGPHLLNALNSYKSRFLCGKEIKKKKCIFRLRIRVPPNPPGKLLPDKGLLPN  
ENSASSELKRKGSKPGLLPHEFQQKRRVYRRKRSKFLEDAIPSSDFTSAWSTNHHLA  
SIFDFTLDEIQSLKSASSGQTFSDVDSTDAASTSGSASTSLSYDSRWTVGSRKRKLA  
AYMPLAKRWAAELDGRCPSDSSAEGASVPERPDEGIDSHTFESISSEDDSSLSHLKSSIT  
NYFGAAGRLACGEKYQVLARRVTPEGKVQYLVEWEGTTPY

>sp|043189|PHF1\_HUMAN PHD finger protein 1 OS=Homo sapiens GN=PHF1 PE=1 SV=3

MAQPPRLSRSGASSLWDPASPAPTSRPRPWEGQDVLARWTDGLLYGTIKKVDAREV  
CLVQFEDDSQFLVLWKDISPAALPGEELLCCVCRSETVVPGNRLVSCEKCRHAYHQDCHV  
PRAPAPGEGEGTSWVCRQCVFAIATKRGGALKKGPYARMLGMKLSLPYGLKGLDWDAGH  
LSNRQQSYCYCGGPGEWNLKMLQCRSCLQWFHEACTQCLSKPLLYGDRFYEFECVCRGG  
PEKVRRLQLRWVDVAHLVLYHLSVCKKKYDFDREILPFTSENWDSLLLGEISDTPKGE  
RSSRLSALNSHKDRFISGREIKRKCLFGLHARMPPVPEPTGDGALTSFSPSGQPGGG  
VSRPLGKRRRPEPEPLRRRQKGVVEELGPPSAVRNQPEPQERERHLQALQASVSPPS  
PSPNQSYQGSSGYNFRPTDARCLPSSPIRMFASFHPSASTAGTSGDSGPPDRSPLELHIG  
FPTDIPKSAPHSMTASSSSVSSPSPLRRSAPPSPCLCRSLSPGTGGGVRGGVGYLSRGD  
PVRVLARRVRPDGSVQYLVEWGGGIF

>sp|Q9UPV7|PHF24\_HUMAN PHD finger protein 24 OS=Homo sapiens GN=PHF24 PE=1 SV=2

MGVLMKSRQTVEQVQKVS LAVSAFKDGLRDRPSIRRTGELPGSRRGTVEGSVQEVQEEKE  
AEAGTSVVQEESAGRAAWERLDGRGVEPEEFDRTSRFTPPAFIRPTRKLDDDKPPEIC  
LEPREPVNDEMCDVCEVWTAESLFPCRVCTRVFHDGCLRRMGYIQGDSAAEVTEMAHTE  
TGWSCHYCDNINLLTTEEMYSLTETFTQRCKVIPDCSLTLEDFLRYRHQAAKRGDRDRAL  
SEEQEEQAARQFAALDPEHRGHIEWPDFLSHESLLLLQLLRPNLSLLRLTVKERERARA  
AFLARGSGSTVSEAECCRRAQHSWFCKRFPEAPSCSVSISHVGPIADSSPASSSSKSQDKT  
LLPTEQESRFVDWPTFLQENVLYILAARPNAAIHLKPPG

>sp|Q9BUL5|PHF23\_HUMAN PHD finger protein 23 OS=Homo sapiens GN=PHF23 PE=1 SV=1

MLEAMAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCFVLAAGYIPPSKEEDWPAS  
GSSSPLRGESAADSDGWSAPSDLRTIQTFVKKAKSSKRRAAQAGPTQPGPPRSTFSRLQ  
APDSATLLEKMKLKDSLFDLDGPKVASPLSPTSLTHTSRPPAALTPVPLSQGDLSHPPRK  
KDRKNRKLGPAGAGFGVLRPRPTPGDGEKRSRIKSKKRKLKAERGDRLPPGPPQA  
PPSDTDSEEEEEEEEEEEEEEMATVVGGEAPVPVLPPTPEAPRPPATVHPEGVPPADSES  
KEVGSTETSQDGDASSEGEMRVMDDEDIMVESGDDSWDLITCYCRKPFAGRPMIECSLCG  
TWIHLSCAKIKKTNVPDFFYCQCKELRPEARRLGGPPKSGEP

>sp|Q8IYJ0|PIANP\_HUMAN PILR alpha-associated neural protein OS=Homo sapiens GN=PIANP PE=2 SV=1

MESRMWPALLSHLLPLWPLLLLPLPPAQGSSSSPRTTPAPARPPCARGGPSAPRHVCV  
WERAPPPSRPRVRSRRQVLPGTAPPATPSGFEEGPPSSQYPWAIWGPVTSREDGGDP  
NSANPGFLDYGAAPHGLATPHPNDSMRGDGDLILGEAPATLRPFLFGGRGEGVDPQL  
YVTITISIIIVLATGIIFKFCWDRSQKRRRPSGQQGALRQESQQPLTDLSPAGVTVLG  
AFGDSPTPTPDHEEPRGGPRGMPHPKGAPAFQLNRIPLVNL

>sp|Q07326|PIGF\_HUMAN Phosphatidylinositol-glycan biosynthesis class F protein OS=Homo sapiens GN=PIGF PE=1 SV=1

MKDNDIKRLLYTHLLCIFSIILSVFIPSLFLENFSILETHLTWLCICSGFVTAVNLVLYL

VVKPNTSSKRSSLSHKVTGFLKCCYFLMSCFSFHVIFVLYGAPLIELALETFLFAVILS  
TFTTVPCLCLLGPNLKAWLRVFSRNGVTSIWENSLQITTISSFVGAWLGALPIPLDWERP  
WQVWPIISCTLGATFGYVAGLVISPLWIYWNRRKQLTYKNN

>sp|Q5H8A4|PIGG\_HUMAN GPI ethanolamine phosphate transferase 2 OS=Homo sapiens GN=PIGG  
PE=1 SV=1

MRLGSGTFATCCVAIEVLGIAVFLRGFFPAPVRSSARAEGAEPPAPEPSAGASSNWTTL  
PPPLFSKVIVLIDALRDDFVFGSKGVKMPYTTYLVEKGASHSFVAEAKPPTVTMPRIK  
ALMTGSLPGFVDVIRNLNSPALLEDVIRQAKAAGKRIVFYGDETWVKLFPKHFVEYDGT  
TSFFVSDYTEVDNNVTRHLDKVLKRGDWDILILHYLGLDHIGHISGPNSPILIGQKLEMD  
SVLMKIHTSLQSKERETPLPNLLVLCGDHGMSETGSHGASSTEEVNTPLILISSAFERKP  
GDIRHPKHVQQTDVAATLAIALGLPIPKDSVGSLLFPVVEGRPMREQLRFLHLNTVQLSK  
LLQENVPSYEKDPGFEQFKMSERLHGNWIRLYLEEKHSEVLNGLSKVLRQYLDALKTLS  
LSLSAQVAQYDIYSMMVGTVVVLEVL TLLLLSVPQALRRKAELEVPLSSPGFSLLFYLVI  
LVLSAVHVIVCTSAESSCYFCGLSWLAAGGVMVLASALLCVIVSVLTNVLVGGNTPRKNP  
MHPSSRWSELDLL ILLGTAGHVLSLGASSFVEEEHQTWYFLVNTLCLALSQETYRNYFLG  
DDGEPPCGLCVEQGHGATAAWQDGP GCDVLERDKGHGSPSTSEVLRGREKWMVLASPWL  
ILACCRLLRSLNQTGVQWAHRPDLGHWLTSSDHKAELSVLAALSLLVVFVLVQRCSPVS  
KAALALGLLGVCYRAAIGSVRFWRPDSKDISKGIIEARFVYVFLGILFTGTDLLKS  
QVIAADFCLKTVGLWEIYSGLVLLAALLFRPHNLPVLAFSLLIQTLMTKFIWKPLRHDA  
EITVMHYWFGQAFFYFQGNSSNIATVDISAGFVGLDITYVEIPAVLLTAFGTYAGPVLWAS  
HLVHFLSSETRSGSALSACFCYALICSIPVFTYIVLVTSLRYHLFIWSVFSPKLLYEGM  
HLLITAACVFFTAMDQTRLTQS

>sp|Q96S52|PIGS\_HUMAN GPI transamidase component PIG-S OS=Homo sapiens GN=PIGS PE=1 SV=3

MAAAGAAATHLEVAR GKRAALFFAAVAIVLGLPLWKTETETIRASLPYSQISGLNALQLR  
LMVPVTVVFTRESVPLDDQEKLPFTVVHEREIPLKYKMKIKCRFQKAYRRALDHEEEALS  
SGSVQEA EAMLDEPQEQAEGSLTVYVISEHSSLLPQDMMSYIGPKRTAVVRGIMHREAFN  
IIGRRIVQVAQAMSLTEDVLAALADHLPEDKWSAEKRRPLKSSLGYEITFSLLNPDPKS  
HDVYWDIEGAVRRYVQPFLNALGAAGNFSVDSQILYYAMLGVNPRFDSASSSYLDMHSL  
PHVINPVESRLGSSAASLYPVLNFLLYVPELAHSPLYIQDKDGAPVATNAFHSPRWGGIM  
VYNVDSKTYNASVLPVRVEVDMVRVMEVFLAQLRLFLGIAQPQLPPKCLLSGPTSEGLMT  
WELDRLLWARSVENLATATTTLSLAQLLGKISNIVIKDDVASEVYKAAVQKSAEELA  
SGHLASAFVASQEAVTSSELAFFDPSLLHLLYFPDDQKFAIYIPLFLPMAVPILLSLVKI  
FLETRKSWRKPEKTD

>sp|Q969N2|PIGT\_HUMAN GPI transamidase component PIG-T OS=Homo sapiens GN=PIGT PE=1 SV=1

MAAAMPLALLVLLLLGPGGWCLAEPPRDSLREELVITPLPSGDVAATFQFRTRWDELQR  
EGVSHYRLF PKALGQLISKYSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTV  
TDVDKSWKELSNVLSGIFCASNFDSTNTVTPTASF KPLGLANDTDHYFLRYAVLPREV  
VCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCNRARCTSI SWELRQ  
TLSVVFDAFITGQGKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPP  
TTYTQDVILGTRKYAIYDLLDTAMINNSRNLIQLKWKRPPENEAPPVPFLHAQRYVSG  
YGLQKGELSTLLYNTHPYRAFPVLLLDTPVPWYLRLYVHTLTITSKGKENKPSYIHYQPAQ  
DRLQPHLLEMLIQLPANSVTKVSIQFERALLKWTEYTPDPNHGFYVSPSVLSALVPSMVA  
AKPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLNLPTPDFSMPYINVICLTCTTVAVCY  
GSFYNNLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL



>sp|Q7Z7B1|PIGW\_HUMAN Phosphatidylinositol-glycan biosynthesis class W protein OS=Homo sapiens GN=PIGW PE=1 SV=1

MSEKQMKEAFVSNLNGTTVLEITQGLCFPAFCILCRGFLIIFSQYLCFSFSPTWKTRFLTD  
FVVLIVPMVATLTIWASFILLELLGVIIIFGAGLLYQIYRRRTCYARLPFLKILEKFLNIS  
LESEYNPAISCFRVITSAFTAIAILAVDFPLFPRRFAKTELYGTGAMDFGVGGFVFGSAM  
VCLEVRRRKYMEGSKLHYFTNSLYSVWPLVFLGIGRLAIIKSIGYQEHLTEYGVHWNFFF  
TIIIVKLITPLLLIIFPLNKSIIIALGITVLYQLALDFTSLKRLILYGTGSGTRVGLLN  
ANREGIISTLGYVAIHMAGVQTGLYMHKNRSHIKDLIKVACFLLAAISLFISLYVVQVN  
VEAVSRMANLAFCIWIVASSLILLSSLLLDIILSFAKFLIKGALVPCSWKLIQSPVTN  
KKHSESLVPEAERMEPSLCLITALNRKQLIFFLLSNITTGLINLMVDTLHSSTLWALFVV  
NLYMFSNCLIVYVLYLQDKTVQFW

>sp|Q9UKJ1|PILRA\_HUMAN Paired immunoglobulin-like type 2 receptor alpha OS=Homo sapiens GN=PILRA PE=1 SV=3

MGRPLLPLLLPPAFLQPSGSTGSGPSYLYGVTQPKHLSASMGGSEIPFSFYYPWE  
LATAPDVRISSRRGHFHRQSFYSTRPPSIHKDYVNRLFLNWTGQKSGFLRISNLQKQDQ  
SVYFCRVELDTRSSGRQQWQSIEGTKLSITQAVTTTTQRPSSMTTWTWLSSTTTTGLRV  
TQGRRSDSWHISLETAVGVAVAVTVLGIMILGLICLLWRRRRKGQRTKATTPAREPFQ  
NTEEPYENIRNEGQNTDPKLNPKDDGIVYASLALSSSTSPRAPPSHRPLKSPQNETLYSV  
LKA

>sp|Q8NBL1|PGLT1\_HUMAN Protein O-glucosyltransferase 1 OS=Homo sapiens GN=POGLUT1 PE=1 SV=1

MEWWASSPLRLWLLLFLPSAQGRQKESGSKWKVFIDQINRSLENYEPCSSQNCSCYHGV  
IEEDLTPFRGGISRKMMAEVVRRKLGTHTYQITKNRLYRENDCMFSPRCSGVEHFILEVIG  
RLPDMEMVINVRDYPQVPKWMPEAIPVFSFSKTSEYHDIMYPAWTFWEGGPAVWPYIPTG  
LGRWDLFREDLVRSAQWPWKKKNSTAYFRGSRTSPERDPLILLSRKNPKLVDAEYTKNQ  
AWKSMKDTLGKPAKDVHLVDHCKYKYLNFNRGVAASFRFKHLFLCGSLVFHVGDWLEF  
FYPQLKPWWHYIPVKTDLSNVQELLQFVKANDDVAQEIAERGSQFIRNHLQMDDITCYWE  
NLLSEYSKFLSYNTRRKGYDQIIPKMLKTEL

>sp|Q15124|PGM5\_HUMAN Phosphoglucomutase-like protein 5 OS=Homo sapiens GN=PGM5 PE=1 SV=2

MEGSPIPVLTVPATPYEDQRPAGGGGLRRPTGLFEGQRNYLPNFIQSVLSSIDLDRDQGC  
TMVVGSDGRYFSRTAIEIVVQMAAANGIGRLIIGQNGILSTPAVSCIIRKKAAGGIILT  
ASHCPGGPGGEFGVKFNANGGPAPDVVSDKIYQISKTIIEYAICPDLRIDLSRLGRQEF  
DLENKFKPFRVEIVDPVDIYLNLLRTIFDFHAIKGLLTGPSQLKIRIDAMHGMGPYVRK  
VLCDELGAPANSAINCVPLEDFGGQHPDPNLTYATTLEAMKGGEYGFGAADFADGDRYM  
ILGQNGFFVSPSDSLAIIAANLSCIPYFRQMGVRGFGRSMPTSMALDRVAKSMKVPVYET  
PAGWRFFSNLMDSGRCNLCGEESFGTGSDDLREKDWAVLVWLSIIAARKQSVEEIVRD  
HWAKFRGRHYICRFDYEGDPKTTYIIMRDLEALVTDKSFIGQQFAVGSHVYSVAKTDSFE  
YVDPVDGTVTKKQLRIIFSDASRLIFRLSSSSGVRATLRLYAESYERDPSGHDQEPQAV  
LSPLIAIALKISQIHERTGRRGPTVIT

>sp|Q96LB8|PGRP4\_HUMAN Peptidoglycan recognition protein 4 OS=Homo sapiens GN=PGLYRP4 PE=1 SV=2

MLPWLLVFSALGIQAWGDSSWNKTQAKQVSEGLQYLFENISQLTEKGLPTDVSTTVSRKA  
WGAEAVGCSIQLTTPVNVLVIHHVPGLECHDQTVCSQRLRELQAHVHNNSGCDVAYNFL  
VGDDGRVYEGVGWNIQGVHTQGYNNISLGFAFFGTTKKGHSPSPAALSAMENLITYAVQKG

HLSSSYVQPLLKGKGENCLAPRQKTSKKACPGVVPRSVWGARETHCPRMTLPAKYGIIH  
TAGRTCNISDECRLLVLDIQSFYIDRLKSCDIGYNFLVGQDGAIEYGVGNVQGSSTPGY  
DDIALGITFMGFTTGIPPNAALAAQDLIQCAMVKGYLTPNYLLVGHSDVARTLSPGQA  
LYNIISTWPHFKH

>sp|P07585|PGS2\_HUMAN Decorin OS=Homo sapiens GN=DCN PE=1 SV=1

MKATIIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRQC  
HLRVVQCSDLGLDKVPKDLPPDTLLDLQNNKITEIKDGFKNLKNLHALILVNNKISKV  
SPGAFTPLVKLERLYLSKNQLKELPEKMPKTLQELRAHENEITKVRKVTFNGLNQMIIE  
LGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTELHLDGNKISRVDAA  
LKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLH  
NNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRCVYVRSIQLGNYK

>sp|Q96KR7|PHAR3\_HUMAN Phosphatase and actin regulator 3 OS=Homo sapiens GN=PHACTR3 PE=1  
SV=1

MAASEDGSGLVSRGRSQSDPSVLTDSSATSSADAGENPDEMOTPPARPEYLVSGIRTP  
PVRNRSLATLGRIFKPWKWRKKKNEKLKQTTSALEKKMAGRQGREELIKKGLLEMMEQD  
AESKTCNPDGGPRSVQSEPPTPKSETLTSEDAQPGSPLATGTDQVSLDKPLSSAAHLDDA  
AKMPSASSGEEADAGSLLPTTNELSQLAGADSLDPPRPLERSVGQLPSPPLPTPPPK  
ASSKTTKNVTGQATLFQASSMKSADPSLRGQLSTPTGSPHLTTVHRPLPPSRVIEELHRA  
LATKHRQDSFQGRESKGSPPKRLDVRLSRTSSVERGKEREEAWSFDGALENKRATAAKESE  
ENKENLIINSELKDDLLLYQDEEALNDSIISGTLPRKCKKELLAVKLNRPSKQELEDRN  
IFPRRTDEERQEIQQIEMKLSKRLSQRPAVEELERNILKQRNDQTEQERREIKQRLT  
RKLNQRPTVDELDRKILIRFSDYVEVAKAQDYDRRADKPWTRLAADKAAIRKELNEYK  
SNEMEVHASSKHLTRFHRP

>sp|Q8IZ21|PHAR4\_HUMAN Phosphatase and actin regulator 4 OS=Homo sapiens GN=PHACTR4 PE=1  
SV=1

MEDPFEEADQPTTEPGMVLDSVEAGDTTPPTKRKSKFSGFGKIFKPWKWRKKKSSDKFKE  
TSEVLERKISMRKPREELVKRGVLLEDPEQGGEDPGKPSDAMLKNGHTTPIGNARSSSPV  
QVEEPPVRLASLRKAIPEDLKKRLGSTGSQPNSEAESVPENVKPPLLPPKRPLSSHE  
ASEGQAKDATSSGGTARFIISTSITTAPAATTAATSLAKTVNLSVTPSPAPRTLPAAPAS  
TNTTATPSLTHMVPKQPPIPPPKPAHRNSNPVIAELSQAINS GTLLSKPSPPLPPKRG  
PSTSVPTLESAAAITTKTPSDEREKSTCSMGSELLPMISPRSPPLPHIPPEPPRTPP  
FPAKTFQVVPEIEFPPLSLDLHQEIPQQEDQKKEVPKRILDQNFGEHIPSRPLPLHIR  
IQQALTSPLMPTPILEGSHRAHSLFENSDFSSEDSTLGRTRSLPITIEMLKVPDDEEE  
EEQTCPSSTFSEEMTPSVIPKLPQCLREEEEKESDSDSEGPIQYRDEEDEDESYQSALAN  
KVVRKDTLAMKLNHRPSEPELNLNSWPCKSKEEWNEIRHQIGNTLIRRLSQRPTPEELEQ  
RNILQPKNEADRQAEKREIKRRLTRKLSQRPTVAELLARKILRFNEYVEVTD AQDYDRRA  
DKPWTKLTPADKAAIRKELNEFKSSEMEVHEESKHFTRYHRP

>sp|Q9UPP1|PHF8\_HUMAN Histone lysine demethylase PHF8 OS=Homo sapiens GN=PHF8 PE=1 SV=3

MNRSRAIVQGRVLPAPLDTTNLAGRRTLQGRAKMASVPVYCLRLPYDVTRFMIECD  
MCQDWFHGSVGVVEEKAADIDLYHCPNCEVLHGPSIMKKRRGSSKGHDTHKGKPVKTGS  
PTFVRELRSRTFDSSDEVILKPTGNQLTVEFLEENSFSVPILVLKKGGLGMTLPSPSFTV  
RDVEHYVGSDEKIDVIDVTRQADCKMKLGDFVKYYSYGKREKVLNVISLEFS DTRLSNLV  
ETPKIVRKL SWENLWPEECVFERPNVQKYCLMSVRDSYTD FHIDFGGTSVWYHVLKGEK  
IFYLIRPTNANLTLFECWSSSSNQNMFFGDQVDKCYKCSVKQGQTLFIPTGWIHAVLTP

VDCLAFGGNFLHSLNIEMQLKAYEIEKRLSTADLFRFPNFETICWYVGKHILDIFRGLRE  
NRRHPASYLVHGGKALNLAFAWTRKEALPDHEDEIPETVRTVQLIKDLAREIRLVEDIF  
QQNVGKTSNIFGLQRIFPAGSIPLTRPAHSTSVSMSRLSLPSKNGSKKKGLKPKELFKKA  
ERKGKESSALGPAGQLSYNMDTYSHQALKTGSFQKAKFNITGACLNDSDDSPDLDLDG  
NESPLALLMSNGSTKRVKSLSKSRRTKIAKKVDKARLMAEQVMEDEFDLDSDDELQIDER  
LGKEKATLIIRPKFPRKLPRAKPCSDPNRVREPGEVEFDIEEDYTTDEDMVEGVEGKLG  
GSGAGGILDLLKASRQVGGPDYAALTEAPASPSTQEAIQGMLCMANLQSSSSSPATSSLQ  
AWWTGGQDRSSGSSSSGLGTVSNPASQRTPGKRPIKRPAYWRTESEEEEEENASLDEQDS  
LGACFKDAEYIYPSLESDDDDPALKSRPKKKKNSDDAPWSPKARVTPTLPKQDRPVREGT  
RVAS IETGLAAAAKLAQQELQKAQKKKYIKKKPLLKEVEQPRPQDSNLSLTVPAPTVA  
TPQLVTSSSPLPPPEPKQEALSGSLADHEYTARPNAFGMAQANRSTTPMAPGVFLTQRRP  
SVGSQSNQAGQGKRPKKGLATAKQRLGRILKIHRNGKLLL

>sp|Q8TCD6|PHOP2\_HUMAN Pyridoxal phosphate phosphatase PHOSPHO2 OS=Homo sapiens  
GN=PHOSPHO2 PE=1 SV=1

MKILLVDFDNTIIDNSDTWIVQCAPNKKLPIELRDSYRKGFWTEFMGRVFKYLGDKGV  
REHEMKRAVTSLPFTPGMVLFNFIRKNKDKFDCIIISDSNSVFIWVLEAASFHDIFDK  
VFTNPAAFNSNGHLTVENYHTHSCNRCPNLCKKVVLIEFVDKQLQQGVNYTQIVYIGDG  
GNDVCPVTFKNDVAMPKGYTLQKTLSRMSQNLEPMEYSVVVWSSGVDIISHLQFLIK  
D

>sp|Q8N3S3|PHTF2\_HUMAN Putative homeodomain transcription factor 2 OS=Homo sapiens  
GN=PHTF2 PE=2 SV=2

MASKVTDAIVWYQKKEFLSVATTAPGPQQVLPGYCQCSLKDQGLFIQCLIGAYDQQIWEK  
SVEQREIKFIKLGRLNPKKTAHVKPDLDVLDVRGSAFAKAKPESPWTSLTRKGIVRVV  
FFPFFFRWWLQVTSKVIFFWLLVLYLLQVAAIVLFCSTSSPHSIPLTEVIGPIWMLLLG  
TVHCQIVSTRTPKPLSTGGKRRRKLKAAHLEVHREGDGSSTTDNTQEGAVQNHGTSTS  
HSVGTVFRDLWHAFFLSGSKKAKNSIDKSTETDNGYVSLDGKKTVKSGEDGIQNHQPQC  
ETIRPEETAWNTGTLRNGPSKDTQRTITNVSDEVSSEEGPETGYSLRRHVDRTSEGVLRN  
RKSHHYKKHYPNEDAPKSGTSCSSRCSSSRQDESARPESETEDVLWEDLLHCAECHSSC  
TSETDVENHQINPCVKKEYRDDPFHQSHLPWLHSSHPGLEKISAIWEGNDCKKADMSVL  
EISGMIMNRVNSHIPGIGYQIFGNAVSLILGLTPFVFRLSQATDLEQLTAHSASELYVIA  
FGSNEDDIVLSMVIISFVVRVSLVWIFFLLCVAERTYKQRLFAKLFGHLSARRARKS  
EVPHFRLKKVQNIKMWLSLSYLKRRGPQRSVDVIVSSAFLLTISVVFICCAQLLHVHEI  
FLDCHYNWELVIWCISLTLFLLRFVTLGSETSKKYSNTSILLTEQINLYLKMEKKPNKKE  
ELTLVNNVLKATKLKELDSPFRLYGLTMNPLLYNITQVVILSAVSGVISDLLGFNLKL  
WKIKS

>sp|O43692|PI15\_HUMAN Peptidase inhibitor 15 OS=Homo sapiens GN=PI15 PE=1 SV=1

MIAISAVSSALLFSLCEASTVLLNSTDSSPTNNFTDIEAALKAQLDSADIPKARRKR  
YISQNDMIAILDYHNQVRGKVFPAAANMEYMVDENLAKSAEAWAATCIWDHGPSYLLRF  
LGQNLSVRTGRYSILQLVKPWYDEVKDYAFPYPQDCNPRCPMRCFGPMCTHYTQMVWAT  
SNRIGCAIHTCQNMNVWGSVWRRVAVLVCNYAPKGNWIGEAPYKVGVPCCSSCPPSYGGSC  
TDNLCFPGVTSNYLYWFK

>sp|Q8N8J0|PI4P1\_HUMAN Putative inactive phosphatidylinositol 4-kinase alpha-like protein  
P1 OS=Homo sapiens GN=PI4KAP1 PE=5 SV=1

MTVEQKFGLFSAEIKEADPLAASEASQPKPCPEVTPHYIWIWDFLVQRFEIAKYCSSDQV

EIFSSLLQRSMSLNIGGAKGSMNRHVAAGPRFKLLTLGLSLLHADVVPNATIRNVLREK  
IYSTAFDYFSCPPKFPTQGEKRLREDISIMIKFWTAMFSDKKYLTAQLVPPADIGDLRE  
QLVEENTGSLSGPAKDFYQREFDFFNKITNVS AVIKPYPKGDQRKKACLSALSEVTVQPG  
CSLPSNPEAIVLDVDYKSGTPM

>sp|Q5T9C9|PI5L1\_HUMAN Phosphatidylinositol 4-phosphate 5-kinase-like protein 1 OS=Homo  
sapiens GN=PIP5KL1 PE=2 SV=2

MAAPSPGPREVLAPSPEAGCRAVTSSRRGLLWRLDKQSRLGLFEISPGHELHGMTCCMMQ  
AGLWAATQVSMDDHPPTGPPSRDDFSEVLTQVHEGFELGTLAGPAFAWLRRSLGLAEEDYQ  
AALPGGGPYLQLFSTSKSKASFSLSHDQRFLLKTQGRREVQALLAHLPRYVQHLQRHPS  
LLARLLGVHSLRVDGRGKTYFIVMQSVFYFAGRISERYDIKGEVSRWVDPAPEGSPLVL  
VLKDLNFQGKTINLGPQRSWFLRQMELDTTFLRELNVLDYSLLIAFQRLHEDERGPGSSL  
IFRTARSVQGAQSPEESRAQNRRLLPDAPNALHILDGPEQRYFLGVVDLATVYGLRKRLE  
HLWKTLYRYPGRFTSTVSPARYARRLCQWVEAHT

>sp|Q15735|PI5PA\_HUMAN Phosphatidylinositol 4,5-bisphosphate 5-phosphatase A OS=Homo  
sapiens GN=INPP5J PE=1 SV=3

MEGQSSRGSRPGTRAGLGSLLPMPQGVAGTGAQSKVDSSFQLPAKKNAALGPSEPRALA  
PVGPRAAASSEGPRALASPRPILAPLCTPEGQKTATAHRSSSLAPTSVGQLVMSASA  
GPKPPPATTGSLVAPTSGLVMPASAGPRSPVTLGPNLAPTSRDQKQEPASVGPCKPTL  
AASGLSLALASEEQPELPSTPSPVPSVLSTQEALAPASTASGAASVGQTSARKRDA  
PAPRPLPASEGHLQPPAQTSMTGSPPCIQTSPPRLSPSFRARPEALHSSPEDPVLPRP  
PQTLPLDVGGPSEPGTHSPGLLSPTFRPGAPSGQTVPPPLPKPPRSPSRSPSHSPNRSP  
CVPPAPDMALPRLGTQSTGPGRCSPNLQAQEAAPVTTSSSTSTLSSSPWSAQPTWKSD  
PGFRITVVTWNVTAMPDDVTSLLHLGGGDDSDGADMIATGLQEVNSMLNKRKDALFT  
DQWSELFMDALGPFNFVLVSSVRMQGVILLFAYYHLPFLRDVQTDCTRTGLGGYWGK  
GGVSVRLAAFGHMLCFLNCHLPAHMDKAEQRKDNFTILSLQQFQGPAGQILDHDLVFW  
FGDLNFRIESYDLHFVKFAIDSDQLHLWEKDQLNMAKNTWPILKGFQEGPLNFAPTFKF  
DVGTKYDTSAKKRKPAWTDRIWVKAPGGGSPSGRKSRLQVTQHSYRSHMEYTVSD  
HKPVAAQFLLQFAFRDDMLVRLEVADEWVRPEQAVVRYRMTVFARSSWDWIGLYRVGF  
RHCKDYVAYVWAKHEDVDGNTYQVTFSEESLPKGGHDFILGYSHNHSILIGITEPFQIS  
LPSSSELASSSTDSSGTSSEGEDDSTLELLAPKSRSPSPGKSKRHSRSPGLARFPGLALR  
PSSRERRGASRSPSPQSRRLSRVAPDRSSNGSSRGSSSEEGPSGLPGWAFPPAVPRSLGL  
LPALRLETVDPGGGGSGWPDREALAPNSLSPSPQGHGRLGEEGLGP

>sp|Q92508|PIEZ1\_HUMAN Piezo-type mechanosensitive ion channel component 1 OS=Homo  
sapiens GN=PIEZ01 PE=1 SV=4

MEPHVLGAVLYWLLLPALLAACLLRFSGLSLVYLLFLLLPWFPGPTRCGLQGHTGRLL  
RALLGLSLLFLVAHLALQICLHIVPRLDQLLGPSCSRWETLSRHIGVTRLDLKDIPNAIR  
LVAPDLGILVSSVCLGICGLARNTQSPHPRELDDDERDVDASPTAGLQEAATLAPTR  
RSRLAARFRVTAHWLLVAAGRVLAVTLLALAGIAHPSALSSVYLLFLALCTWWACHFPI  
STRGFSRLCAVCGFAGHLICLYCYQMPLAQALLPPAGIWARVLGLKDFVGPTNCSSPH  
ALVLNTGLDWPVYASPGVLLLLCYATASLRKLRAYRPSGQRKEAAKGYEARELELAELDQ  
WPQERESDQHVVPTAPDTEADNCIVHELGTQSSVLRPVRPKRAEPREASPLHSLGHLIM  
DQSYVCALIAMVWSITYHSWTFVLLLWACLIWTVRSRHLQAMLCSPCILLYGMTLCCL  
RYVWAMDRLPELPTTLGPVSLRQLGLEHTRYPCLDLGAMLLYTLTFWLLLRQFVKEKLLK  
WAESPAALTEVTVADTEPTRTQTLLQSLGELVKGVYAKYWIYVCAGMFIVVSFAGRLVYV

KIVYMFLFLLCLTLFQVYYSLWRKLLKAFWWLVVAYTMLVLIIVYTFQFQDFPAYWRNLT  
GFTDEQLGDLGLEQFSVSELSILVPGFLLACILQLHYFHRPFMQLTDMEHVSLPGTR  
LPRWAHRQDAVSGTPLLREEQHEHQQQQEEEEEDSRDEGLGVATPHQATQVPEGAAG  
WGLVAERLLELAAGFSDVLSRVQVFLRRLLELHVFKLVALYTVWVALKEVSVMNLLLVVL  
WAFALPYPRFRPMASCLSTVWTCV I I VCKMLYQLKVVPQ EYSSNCTEPFPNSTNLLPTE  
ISQSLLYRGPVDPANWFGVRKGFPNLGYIQNHLQVLLLLVFEAIVYRRQEHYRRQHLAP  
LPAQAVFASGTRQQLDQDLGCLKYFINFFFYKFGLEICFLMAVNVIGQRMNFLTTLHGC  
WLVA I LTRRRHQAIARLWPNYCLFLALFLLYQYLLCLGMPPALCIDYPWRWSRAVPMNSA  
LIKWLYLPDFFRAPNSTNLISDFLLLCASQQWQVFSARTEEWQRMAGVNTDRLEPLRG  
EPNPVPNF I HCRSYLDMLKVAVFRYLFWLVLVVVFTGATRISIFGLGYLLACFYLLLFG  
TALLQRDTRARLVWDCLILYNVTVI I SKNMLSLLACVFVEQMQTGFCWVIQLFSLVCTV  
KGYYPKEMMDRDQDCLLPVEEAG I I WDSVCFFFLLQRRVFLSHYYLHVRADLQATALL  
ASRGFALYNAANLKSIDFHRRIEEKSLAQLKRQMERIRAKQEKHRQGRVDRSRPQDTLGP  
KDPGLEPGPDSPGGSPRRQWWRPWLDHATVIHSGDYFLFESDSEEEEEAVPEDPRPSA  
QSAFQLAYQAWVTNAQAVLRRRQQEQEQARQEQAGQLPTGGGPSQEVEPAEGPEEAAAQR  
SHVVQVRVLSAQFLWMLGQALVDELTRWLQEFTRHHGTMSDVLRAERYLLTQELLQGGEV  
HRGVLQDLYTSQAEATLPGPTEAPNAPSTVSSGLGAEPLSSMTDDMGSPSTGYHTRSG  
SEEAVTDPGEREAGASLYQGLMRTASELLDRRLRIPELEEAELFAEGQGRALRLLRAVY  
QCVAHSELLCYF I I I LNHMTASAGSLVLPVLVFLWAMLSIPRPSKRFWMTAIVFTEIA  
VVVKYLFQGFPPWNSHVVLRRYENKPYFPPIRLGLEKTDGYIKYDLVQLMALFFHRSQ  
LCYGLWDHEEDSPSKEHDKSGEEEGGAEVGPVPAATTEDHIQVEARVGPTDGTPEPQVE  
LRPRDTRRISLRFRRRKKEGPARKGAAAIEAEDREEEGEEKEAPTGREKRPSRSGGRV  
RAAGRRLQGFCLSLAQGTYPRLRRFFHDILHTKYRAATDVYALMFLADVDF I I I IFGW  
AFGKHSAAITSSLSDDQVPEAFVMLLIQFSTMVVDRALYLRKTVLGKLAQVALVLA  
IHLWMFFILPAVTERMFNQNVVAQLWYFVKCIYFALSAYQIRCGYPTRILGNFLTKKYNH  
LNLFLFQGFRLVPFLVELRAVMDWVWTDTTLSLSSWMCVEDIYANIFI I KCSRETEKKYP  
QPKGQKKKKIVKYGMGLI I LFLIAI I WFPLLFMSLVRSVVGVNQPIDVTVTCLKGGYE  
PLFTMSAQQPSI I PFTAQAYEELSRQFDPQPLAMQFISQYSPEDIVTAQIEGSSGALWRI  
SPPSRAQMKRELNGTADITLRTWNFQRDLAKGGTVEYANEKHLALAPNSTARRQLAS  
LLEGTSDQSVVIPNLFPKYIRAPNGPEANPVKQLQPNEEADYLGVRIGLRREQGAGATGF  
LEWWVIELQECRTDCNLLPMVIFSDKVSPPSLGFLAGYIMGLYVSIVLVIGKFVRGFFS  
EISHSIMFEELPCVDRIKLKQDIFLVRETRELEEEELYAKLIFLYRSPETMIKWTRK  
E

>sp|Q92521|PIGB\_HUMAN GPI mannosyltransferase 3 OS=Homo sapiens GN=PIGB PE=1 SV=1  
MRRPLSKCGMEPGGDASLTLHGLQNRSHGKIKLRKRKSTLYFNTQKSARRRGDLLGEN  
IYLLLF TIALRILNCFVQTSFVPDEYWQSLEVSHHMFNYGYLTWEWTERLSYTYPLI  
FASIYKILHLLGKDSVQLL I WIPRLAQALLSAVADVRLYSLMKQLENQEVARWVFFCQLC  
SWFTWYCCTRTLNTMETVLT I I ALFYYPLEGSKSMNSVKYSSLVALAF I IRPTAVILWT  
PLLFRHFCQEPRKLDILHHFLPVGFVTLSLSLMIDRIFFGQWTLVQFNFLKFNVLQNWG  
TFYGSHPHWHYFSQGFVPVILGTHLPFFIHGCYLAPKRYRILLVTVLWTLVYSMLSHKEF  
RFIYPVLPFCMVFCGYSLTHLKTWKKPALSFLFLSNLFLALYTGLVHQRGTLDMSHIQK  
VCYNNPNKSSASIFIMMPCHSTPYSHVHCPLPMRFLQCPPDLTGKSHYLDEADV FYLNP  
LNLHREFHDDASLPHLITFSILEEEISAFLISSNYKRTAVFFHTHLPEGRIGSHIYVY  
ERKLKGFNMKMKF

>sp|Q92535|PIGC\_HUMAN Phosphatidylinositol N-acetylglucosaminyltransferase subunit C  
OS=Homo sapiens GN=PIGC PE=2 SV=1

MYAQPVTNTKEVKWKVLYERQPFDPNYVDRRFLEELRKNIHARKYQYWAVVFESSVVIQ  
QLCSVCVFVVIWYWMDEGLLAPHWLLGTGLASSLIGYVLFDLIDGGEGRKKSQGTRWADL  
KSALVFITFTYGFSPVLKLTLESVSTDTIYAMSVFMLLGHLIFFDYGANAAIVSSTLSLN  
MAIFASVCLASRLPRSLHAFIMVTFAIQIFALWPMLQKKLACTPRSYVGVTLFFAFSAV  
GGLLSISAVGAVLFALLMSISCLCPFYLIRLQLFKENIHGPWDEAEIKEDLSRFLS

>sp|Q9H3S5|PIGM\_HUMAN GPI mannosyltransferase 1 OS=Homo sapiens GN=PIGM PE=1 SV=1

MGSTKHGWGELLNLKVPAGVFGVAFLARVALVFYGVFQDRTLHVRVTDIDYQVFTDAAR  
FVTEGRSPYLRATYRYTPLLGWLLTPNIYSELFGKFLFISCDLLTAFLLYRLLLLKGLG  
RRQACGYCVFWLLNPLPMAVSSRGNADSIASLVMVLYLIKRLVACAAVFYGFVAVHMK  
IYPVTYILPITLHLLPDRDNDKSLRQFRYTFQACLYELLKRLCNRAVLLFVAVAGLTFFA  
LSFGFYEYEGWEFLEHTYFYHLTRRDIRHNFSPYFYMLYLTAEKWSFSLGIAAFLPQLI  
LLSAVSFAYYRDLVFCFLHTSIFVTFNKVCTSQYFLWYLCLLPLVMPLVRMPWKRAVVL  
LMLWFIGQAMWLAPAYVLEFQGKNTFLFIWLAGLFFLLINCSILIQIISHYKEEPLTERI  
KYD

>sp|P57054|PIGP\_HUMAN Phosphatidylinositol N-acetylglucosaminyltransferase subunit P  
OS=Homo sapiens GN=PIGP PE=1 SV=3

MVPRSTSLALIVFLFHRLSKAPGKMVENSPSPLEPAIYGFVFLSSQFGFILYLWAFI  
PESWLSNLGLTYWPQKYWAVALPVYLLIAIVIGYVLLFGINMMSTSPLSIHTITDNYAK  
NQKKKYQEEAIPALRDISISEVNQMFFLAAKELYTKN

>sp|P01833|PIGR\_HUMAN Polymeric immunoglobulin receptor OS=Homo sapiens GN=PIGR PE=1 SV=4

MLLFVLTCLLAVFPAISTKSPIFGPEEVNSVEGNSVSITCYPPTSVMNRHTRKYWCRCQA  
RGGCITLISSEGYVSSKYAGRANLTNFPENGTFVVNIAQLSQDDSGRYKCGLGINSRGLS  
FDVSLEVSQGPGLLNDTKVYTVDLGRTVTINCPFKTENAKRKSQYKQIGLYPVLVIDSS  
GYVNPNTGRIRLDIQTGTQLLFSVVINQLRLSDAGQYLCQAGDSDNSNKKNADLQVLKP  
EPELVYEDLRGSVTFHCALGPEVANVAKFLCRQSSGENCDVVNTLGKRAPAFEGRILLN  
PQDKDGSFSVITGLRKEDAGRYLCGAHSDGQLQEGSPIQAWQLFVNEESTIPRSPTVVK  
GVAGGSVAVLCPYNRKESKSIKYWCLWEGAQNGRCPLLVDSEGWVKAQYEGRLSLLEEPG  
NGTFTVILNQLTSRDAGFYWCLTNGDTLWRTTVEIKIIEGEPNLKVPGNVTAVLGETLKV  
PCHFPCKFSSYEKYWCKWNNTGCQALPSQDEGPSKAFVNCDENSRLVSLTLNLVTRADEG  
WYWCQVKQGHFYGETAAVYVAVEERKAAGSRDVS LAKADAAPDEKVLDSGFREIENKAIQ  
DPRLFAEEKAVADTRDQADGSRASVDSGSSEEQGGSSRALVSTLVPLGLVLAVGAVAVGV  
ARARHRKNVDRVSIRSYRTDISMSDFENSREFGANDNMGASSITQETSLGGKEEFVATTE  
STTETKEPKKAKRSSKEEAEMAYKD FLLQSSTVAEEAQDGPQEA

>sp|Q7Z442|PK1L2\_HUMAN Polycystic kidney disease protein 1-like 2 OS=Homo sapiens  
GN=PKD1L2 PE=1 SV=4

MSAVGLVLLVLA LRLRATTVKPEEGSFCNSQVAFRDACYEFVPLGRTFRDAQSWCEGQG  
GHLVFIQDEGTQWFLQKHISQDREWWIGLTWNLARNGTTEGPGTWLDTSNVYTYSNWHGGQ  
AAAAPDTCGHIGRPSSEWVTS DCAQTFAFMCEFRVGGSLACEGLNATVHCGLGQVIQVQ  
DAVYGRQNP HFCTQDAGRPSDLEQGCSWANVKEEVAGQCQELQSCQVAADETYFGNLCPT  
QGSYLWVQYQCREALQLMVSSSEFIFDNVTISLTWLLSPYIGNLS CIISTGDSHTFDPYN  
PPSVSSNVTHQFTSPGEFTVFAECTTSEWHVTAQRQVTVRDKMETLSVTACSGLSQSGAG  
PLCQAVFGDPLWIQVELDGGTGVYTYTVLLGDITLAESTTQKGS LPYNLILDRETQKLMGP

GRHRLEIQATGNTTSTISRNITVHLVELLSGLQASWADHLELGQDLLITISLAQGTPE  
ELTFEVAGLNATFSHEQVSFGPEFGICRLAVPVEGTFLVTMLVRNAFNLSEIGNITIT  
APSGLQEPESGMNAEGKSKDKGDMEVYIQPGPYVDPFTTTLGWPDNDKELRFQWSCGSCW  
ALWSSCVERQLLRTDQRELVPASCLPPDSAVTLRLAVLRGQELNRAEQCLYVSAPWE  
LRPRVSCERNCRPVNASKDILLRVTMGEDSPVAMFSWYLDNTPTEQAEPLLDACRLRGFW  
PRSLTLLQSNSTLLLNSSFLQSRGEVIRIRATALTRHAYGEDTYVISTVPPREVPACTI  
APEEGTVLTSFAIFCNASTALGLEFCFCLESGSCLHCGPEPALPSVYLPLGEENND FVL  
TVVISATNRAGDTQQTQAMAKVALGDTCEDVAFQAAVSEKIPTALQGEGGPEQLQLAK  
AVSSMLNQEHESSQSGSQSLSIDVRQKVREHVLGSLSAVTTGLEDVQRVQELAEVLREVC  
RSKELTPSAQWEASLALQHASEALLTVSAKARPEDQRRQAATRDLFQAVGSVLEASLSNR  
PEEPAEASSSQIATVRLRLRMHVQTTLGLKLPGLPAMLATPSISVYTNRIPWSWQ  
GSSLRPDAADSATFMLPAASSLSLEGGQEPVDIKIMSFKSPFPARSHFDVSGTVGGLR  
VTSPSGQLIPVKNLSENIEILLPRHSQRHSQPTVLNLTSPEALWVNVTSGEATLGIQLHW  
RPDIALTSLGYGYHPNKSSYDAQTHLVPMPVAPDELPTWILSPQDLRFEGGVYLTVVPE  
SDLEPAPGRDLTVGITTFLSHCVFWDDEVQETWDDSGCQVGPRTSPYQTHCLCNHLTFFGS  
TFLVMSNAINIHTAELFATFEDNPVVVTTVGCLCVVYVLVVIWARRKDAQDQAKVKVTV  
LEDNDPFAQYHYLVTVYTGHRGAATSSKVTVTLYGLDGEREPHHLADPDPVFERGAVD  
AFLSTLFLPLGELRSLRLWHDNSGDRPSWYVSRVLVYDLVMDRKWYFLCNSWLSINVGDC  
VLDKVPFPVATEQDRKQFSHLFFMKTSAGFQDGHYWYSIFSRCARSSFTRVQRVSCCFSL  
LCTMLTSMFVGWPKDPAEQKMDLGKIEFTWQEVMI GLESSILMFPINLLIVQIFQNTRP  
RVAKEQNTGKWDRGSPNLTPSPQPMEDGLLTPEAVTKDVSRISSLFKALKVPSPALGWD  
SVNLM DINSLLALVEDVIYPQNTSGQVFWEEAKKREDPVTTLGSSSEMKEKSQCPKPKAA  
RSGPWKDSAYRQCLYLQLEHVEQELRLVGPRGFSQPHSHAQALRQLQTLKGGLGVQPGTW  
APAHASALQVSKPPQGLPWWCILVGWLLVAATSGVAFFTMLYGLHYGRASSLRWLISMA  
VSFVESMFVTQPLKVLGFAAFFALVLKRVDDEEDTVAPLPGHLLGPDYPALFRARRNSSR  
DVYQPPLTAAIEKMKTTHLKEQKAFALIREILAYLGFLWMLLLVAYGQRDPSAYHLNRHL  
QHSFTRGFSGLGFREFFKWANTTLVSNLYGHPPGFI TDGNSKLVGSAQIRQVRVQESSC  
PLAQQPQAYLNGCRAPYSLDAEDMADYGEWNATTLSEWQYQSQDQRQGYPIWGKLT VYR  
GGGYVPLGTDRQKHVKILRYLFDNTWLDALTRAVFVESTVYNANVNLFCIVTLTLETS  
LGTFFTHAALQSLRLYPFTDGWHFPVVAELIYFLFLLYMVVQGKRMSKETWGYFCSKW  
NLLELAIILASWSALAVFVKRAVLAERDLQRCRNHREEGISFSETAAADAALGYIIAFLV  
LLSTVKLWHLLRLNPKMNMITAALRRAWGDISGFMIVILTMLLAYSIALNIFGWKLSY  
KTLFDAAETMVSLLQLGIFNYEEVLDYSPVLGSFLIGSCIVFMTFVVLNLFISVILVAFSE  
EQKYYQLSEEGEIVDLLLMKILSFLGIKSKREEPGSSREQPGSLSQTRHSRPAQALPKD

>sp|P48736|PK3CG\_HUMAN Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit  
gamma isoform OS=Homo sapiens GN=PIK3CG PE=1 SV=3

MELENYKQPVVLRDNCRRRRRMKPRSAAASLSSMELIPIEFVLPTSQRKCKSPETALLH  
VAGHGNVEQMKQVWLRALETSVAADFYHRLGPHHFLLLYQKKGQWYEIYDKYQVVTLD  
CLRYWKATHRSPGQIHLVQRHPPSEESQAFQRQLTALIGYDVTDVSNVHDELEFTRRGL  
VTPRMAEVASRDPKLYAMHPWVTSKPLPEYLWKKIANNCIFIVIHRSTTSQTIKVSPDDT  
PGAILQSFFTMAKKKSLMDIPESQSEQDFVLRVCGRDEYLVGETPIKNFQWVRHCLKNG  
EEIHVLDTPDPALDEVKKEEWPLVDDCTGVTGYHEQLTIHGKDHSVFTVSLWDCDRK  
FRVKIRGIDIPVLPRTDLTVFVEANIHQGQQVLCQRRTPSPKPFTEEVLWNVWLEFSIKI  
KDLPGALLNLQIYCGKAPALSSKASAESPSSSESKGKVQLLYVNNLLIDHRFLLRRGEY

VLHMWQISGKGEDQGSFNADKLT SATNPDKENSMSISILLDNYCHPIALPKHQPTDPEG  
DRVRAEMP NQLRKQLEAIIATDPLNPLTAEDKELLWHFRYESLKHPKAYPKLFSSVKWGQ  
QEIVAKTYQLLARREVWDQSALDVGLTMQLLDCNFSDENVRAIAVQKLESLEDDDLVHYL  
LQLVQAVKFEPYHDSALARFLLKRGLRNKRIGHFLFWFLRSEIAQSRHYQQRFAVILEAY  
LRGCGTAMLDFTQQVQVIEMLQKVTLDIKSLSAEKYDVSSQVISQLKQKLENLQNSQLP  
ESFRVPYPDGLKAGALAIEKCKVMASKKKPLWLEFKCADPTALSNETIGIIFKHGDDL RQ  
DMLILQILRIMESI WETESLDLCLLPYGCISTGDKIGMIEIVKDATTIAKIQQSTVGNTG  
AFKDEVLNHWLKEKSPTEEFQAAVERFVYSCAGYCVATFVLGIGDRHNDNIMITETGNL  
FHIDFGHILGNYKSFLGINKERVFPVLTPDFLFVMTSGGKTS PHFQKFQDICVKAYLAL  
RHHTNLLIILFSMMLMTGMPQLTSKEDIEYIRDALTVGKNEEDAKKYFLDQIEVCRDKGW  
TVQFNWFLHLVLGIKQGEKHS A

>sp|Q504Y2|PKDCC\_HUMAN Extracellular tyrosine-protein kinase PKDCC OS=Homo sapiens  
GN=PKDCC PE=2 SV=2

MRRRRAAVAAGFCASFLGSVLNVL FAPGSEPPRPGQSPEPSPAPGPGRRGGRGELARQI  
RAREYEEVQRYSRGGPGGAGRPERRRLMDLAPGGPGLPRPRPPWARPLSDGAPGWPPAPG  
PGSPGPGPRLGCAALRNVSQAQYMGSGYTKAVYRVRLPGGAAVALKAVDFSGHDLGSCVR  
EFGVRRGCYRLAAHKLKEMVLLERLRHPNVLQLYGYCYQDSEDIPDTLTTITELGAPVE  
MIQLLQTSWEDRFRI CLSLGRLLHHLAHSPLGSVTLLDFRPRQFVLVDGELKVTDLDDAR  
VEETPCAGSTDCILEFPARNFTLPCSAQGWCEGMNEKRNLYNAYRFFFTYLLPHSAPPSL  
RPLDSIVNATGELAWGVDETLAQLEKVLHLYRSGQYLQNSTASSSTEYQCIPDSTIPQE  
DYRCWPSYHHGSCLLSVFNLA EAVDVCESHAQCRAFFVTNQTWTGRQLVFFKTGWSQVV  
PDPNKTTYVKASG

>sp|O95397|PKHA9\_HUMAN Putative protein PLEKHA9 OS=Homo sapiens GN=PLEKHA8P1 PE=5 SV=1

MSELRLCCDLLVQVDKTKEVTTTGVSNSEEGIDVGTLKSTCNTFLKTLEECMQIANAA  
FTSELLYHTPPGSPQLAMLKSSMKHP IPIHNSLERQTELSTCENGLNMEINGEEEEIL  
MKNKNSLYLKS AEIDCSISSEENTDDNITVQGEIMKEDRMENLKNHDNNLSQSGSDSSCS  
PECLWEEGKEVIPTFFSTMNTSFS DIELLED SGIPTEAFLASCCAVVPVLDKLGPTVFAP  
VKMDLVENIKKVNQYITNKEEFTTLQKIVLHEVEADVAQVRNSATEALLWLKRGLKFLK  
GFLTEVKNGEKDIQTALNNAYGKTLRQHHGWVVRGVFALALRATPSYEDFVAALTVKEGD  
HRKEAFSIGMQRDLSLYLPAMKKQMAILDAL

>sp|Q9UF11|PKHB1\_HUMAN Pleckstrin homology domain-containing family B member 1 OS=Homo  
sapiens GN=PLEKHB1 PE=1 SV=1

MSPAAPVP PDSALES PFEEMLVRGGWLWRQSSILRRWKRNFALWLDGTLGYYHDETAQ  
DEEDRVL IHFNV RDIKIGPECHDVQPPEGRSRDGLLTVNLREGGRLHLCAETKDDALAWK  
TALLEANSTPAPAGATVPPSRVRCSKVR CVTRSWSPCKVERRI WVRVYSPYQDYEVVP  
PNAHEATYVRSYGPYAGPGVTHVIVREDPCYSAGAPLAMGMLAGAATGAALGSLMWSP  
CWF

>sp|Q8TD55|PKH02\_HUMAN Pleckstrin homology domain-containing family 0 member 2 OS=Homo  
sapiens GN=PLEKH02 PE=1 SV=1

MEEEGVKEAGEKPRGAQMVDKAGWIKKSSGGLLGFWKDRYLLLCQAQLLVYENEDDQKCV  
ETVELGSYEKCDL RALLKRKHRFILLRSPGNKVSDIKFQAPTGEEKESWIKALNEGINR  
GKNKAFDEVKVDKSCALEHVTRDRVRGGQRRRPTRVHLKEVASAASDGLLRDLDPDS  
GPPVFAPSNHVSEAQPRETPRPLMPPTKFLAPETTSPGDRVETPVGERAPTPVSASSEV  
SPESQEDSETPAEEDSGSEQPPNSVLPDKLKVSWENPSPQEAPAAESAEP SQAPCSETSE



AAPREGGKPPTPPPKILSEKLKASMGEMQASGPPAPGTVQVSVNGMDDSPPEAKPSQAEG  
TPGTPPKDATTSTALPPWDLPPQFHPRCSSLDLLGEGPRHPLQPRERLYRAQLEVKVAS  
EQTEKLLNKVLGSEPAPVSAETLLSQAVEQLRQATQVLQEMRDLGELSQAEPGLREKRKE  
LVTLYRRSAP

>sp|Q5SXH7|PKHS1\_HUMAN Pleckstrin homology domain-containing family S member 1 OS=Homo sapiens GN=PLEKHS1 PE=1 SV=2

MAGGKQFTFSYENEVCKQDYFIKSPPSQLFSSVTSWKKRFFILSKAGEKSFSLSYYKDHH  
HRGSIEIDQNSSVEVGISSQEKMQSVQKMFKCHPDEVMSIRTTNREYFLIGHDREKIKDW  
VSFMSFRQDIKATQQNTEELSLGNKRTL FYSSPLLGPSSTSEAVGSSSPRNLQDKHL  
MEQSSPGFRQTHLQDLSEATQDVKEENHYLTPRSVLLELDNIIASSDSGESIETDGPDQV  
SGRIECHYEPMESYFFKETSHEVSDSSKEEPQTLPETQDGLHLQEQSGIDWCLSPADV  
EAQTTNDQKGSASLTVVQLSILINNIPDESQVEKLNVLSPDPVINYLALTEATGRICVS  
QWEGPPRLGCIFCHGDHLLAVNDLKPQSLEEVSLFLTRSIQKEKCLKLTIGRIPNSETFHA  
ASCMCPSKCKSAAPSQDLKPRLNRAPKRSPAIKKSQQKGARE

>sp|Q9Y446|PKP3\_HUMAN Plakophilin-3 OS=Homo sapiens GN=PKP3 PE=1 SV=1

MQDGNFLLSALQPEAGVCSLALPSDLQLDRGAEGPEAERLRAARVQEQVRARLLQLGQQ  
PRHNGAAEPEPEAETARGTSRGQYHTLQAGFSSRSQGLSGDKTSGFRPIAKPAYSPASWS  
SRSAVDLSCSRRLSSAHNGGSAFGAAGYGGAQTPPMPTRPVSFHERGGVGSRADYDTLS  
LRSLRLGPGGLDDRYSLVSEQLEPAATSTYRAFAYERQASSSSSRAGGLDWPEATEVSPS  
RTIRAPAVRTLQRFQSSHSRSGVGAVPGAVLEPVARAPSVRSLSLSLADSGHLPDVHGF  
NSYGSHTLQRLSSGFDDIDLPSAVKYLMA SDPNLQVLGAAYIQHKCYSDAAAKKQARSL  
QAVPRLVKLFNHANQEVQRHATGAMRNLIYDNADNKLALVEENGIFELLRTLREQDDEL  
KNVTGILWNLSSSDHLKDRLARDTLEQLTDLVLSPLSGAGGPPLIQNASEAEIFYNATG  
FLRNLSASQATRQKMRCHGLVDALVTSINHALDAGKCEDKSVENAVCVLRNLSYRLYD  
EMPPSALQRLEGRRRDLGAPPGEVVGCFTPQSRRLRELPLAADALTFAEVSKDPKGLE  
WLWSPQIVGLYNRLQRCELNRHTTEAAAGALQNITAGDRRWAGVLSRLALEQERILNPL  
LDRVRTADHHQLRSLTGLIRNLSRNARNKDEMSTKVVSHLIEKLPGSVGEKSPPAEVLVN  
IIAVLNNLVVASPIAARDLLYFDGLRKLIFIKKKRDSPDSEKSSRAASSLLANLWQYNKL  
HRDFRAKGYRKEDFLGP

>sp|Q13018|PLA2R\_HUMAN Secretory phospholipase A2 receptor OS=Homo sapiens GN=PLA2R1 PE=1 SV=2

MLLSPSLLLLLLGAPRGCAEGVAAALTPERLLEWQDKGIFVIQSESLKKCIQAGKSVLT  
LENCKQANKHMLWKVSNHGLFNIGGSGCLGLNFSAPEQPLSLYECDSLVSRLWRCNRK  
MITGPLQYSVQVAHDNTVVASRKYIHKWISYSGGGDICEYLHKDLHTIKGNTHGMP  
PFQYNHQWHHECTREGREDDLLWCATTSRYERDEKWFCDPTSAEVCDDTIWEKDLNSH  
ICYQFNLLSSLSWSEAHSSCQMGGTLLSITDETEENFIREHMSKTVFVWMLNQLDEH  
AGWQWSDGTPLNYLNWSPEVNFEPFVEDHCGTFSSFMPSAWRSRDCSTLPYICKKYNH  
IDHEIVEKDAWKYYATHCEPGWNPYRNRCYKLQKEEKTWHEALRSCQADNSALIDITSLA  
EVEFLVTLLGDENASETWIGLSSNKIPVSFEWSNDSSVIFTNWHLEPHIFPNRSQLCVS  
AEQSEGHWKVKNCERLFYICKKAGHVLSDAESGCQEGWERHGGFCYKIDTVLRSFDQAS  
SGYYCPPALVTITNRFEQAFITSLISSVVKMKDSYFWIALQDQNDTGEYTWKPVGQKPEP  
VQYTHWNTHQPRYSGGCVAMRGRHPLGRWEVKHCRHFKAMSLCKQPVENQEKA EYEERWP  
FHPCYLDWESEPLASCFKVFHSEKVL MKRTWREAEAFCEEFGAHLASFAHIEEENFVNE  
LLHSKFNWTEERQFWIGFNKRNP LNAGSWEWSDRTPVVSFLDNTYFGEDARNCAVYKAN

KTLLPLHCGSKREWICKIPRDVKKIPFWYQYDVPWLFYQDAEYLFHTFASEWLNFEFVC  
SWLHSDLLTIHSAHEQEFIHSEKIKALSKYGASWWIGLQEERANDEFWRDGTPIYQNW  
TGRERTVNNQSQRCGFISSITGLWGSEECVSMPSICKRKKVWLEKKKDKTPKHGTCPK  
GWLYFNYKCLLLNIPKDPSSWKNWTHAQHFCAEEGGTLVAIESEVEQAFITMNLFGQTTS  
VWIGLQNDYETWLNKGPVVYSNWSPFDIINIPSHNTTEVQKHIPLCALLSSNPNFHFTG  
KWYFEDCGKEGYGFVCEKMQDTSGHGVNTSDMYPMPNTLEYGNRTYKIINANMTWYAAIK  
TCLMHKAQLVSITDQYHQSFLLTVLNLGYAHWIGLFTTDNGLNFDWSDGTKSSFTFWKD  
EESLLGDCVFADSNGRWHSTACESFLQGAICHVPPETRQSEHPELCSETSIPWIKFSN  
CYSFSTVLDSMSFEAAHEFCKKEGSNLLTIKDEAENAFLEELFAFGSSVQMVWLNQFD  
GNETIKWFDGTPDQSNWGIKRPDIDYFKPHHCVALRIPEGLWQLSPCQEKKGFIKME  
ADIHTAEALPEKGPSHSIIPLAVVLTIVIVAICTLSFCIYKHNGGFFRRLAGFRNPYYP  
ATNFSTVYLEENILISDLEKSDQ

>sp|P14923|PLAK\_HUMAN Junction plakoglobin OS=Homo sapiens GN=JUP PE=1 SV=3

MEVMNLMEQPIKVTWEQQTYTYDSGIHSGANTCVPSVSSKGIMEEDEACGRQYTLKTTT  
YTQGVPPSQGDLEYQMSTTARAKRVREAMCPGVSGEDSSLLLATQVEGQATNLQRLAEP  
QLLKSIAIVHLINYQDDAELATRALPELTKLLNDEDPVVVTKAAMIVNQLSKKEASRRALM  
GSPQLVAAVVRTMQNTSDLDARCTTSILHNLSSHREGLLAIFKSGGIPALVRMLSSPVE  
SVLFYAITTLHNLLEYQEGAKMAVRLADGLQKMVPLLNNKNNPKFLAITTDCLQLLAYGNQ  
ESKLIILANGGPQALVQIMRNYSYEKLLWTTSRVLKVLVCPSPNKAIVEAGGMQALGKH  
LTSNSPRLVQNCWLTLRNLSDVATKQEGLESVLKILVNQLSVDDVNVLTCATGTLSNLTC  
NNSKNKTLVTQNSGVEALIHAILRAGDKDDITEPAVCALRHLSRHPEAEMAQNSVRLNY  
GIPAIVKLLNQPNQWPLVKATIGLIRNLALCPANHAPLQEAIVPRLVQLLVKAHQDAQR  
HVAAGTQQPYTDGVRMEEIVEGCTGALHILARDPMNRMEIFRLNTIPLFVQLLYSSVENI  
QRVAAGVLCELAQDKEAADAIDAEGASAPLMELLHSRNEGATYAAAVLFRISEDKNPDY  
RKRVSVELTNSLFKHDPAAWEAAQSMIPINEPYGDDMDATYRPMYSSDVPLDPLEMHMDM  
DGDYPIDTYSGLRPPYPTADHMLA

>sp|Q6P4A8|PLBL1\_HUMAN Phospholipase B-like 1 OS=Homo sapiens GN=PLBD1 PE=1 SV=2

MTRGGPGGRPLQPPPLLLLLLLPLLLVTAEPKPKAGVYATAYWMPAEKTVQKVM  
DKNGDAYGFYNNVSKTTGWGILEIRAGYSQTLSEIIMFVAGFLEGYLTAPHMNDHYTN  
LYPQLITKPSIMDKVQDFMEKQDKWTRKNIKEYKTDSEWRHTGYVMAQIDGLYVGAKKRA  
ILEGTPMTLFQIQFLNSVGDLDDLIPSLSPKNGSLKVFKRWDMGHCSALIKVLPGFEN  
ILFAHSSWYTYAAMLRIYKHWDFNIDKDTSSSRLSFSSYPGFLESDDFYILSSGLILL  
QTTNSVFNKTLKQVIPETLLSWQRRVRANMMADSGKRWADIFSKYNSGTNNQYMVLDL  
KKVKLNHSLDKGTLYIVEQIPTVEYSEQTDVLRKGYWPSYNVPFHEKIYNWSGYPLLQ  
KLGLDYSYDLAPRAKIFRRDQGVTDTASMKYIMRYNNYKKDPYSRGDPCNTICREDLN  
SPNPSPGGCYDTKVADIYLASQYTSYASISGPTVQGGLPVFRWDRFNKTLHQGMPEVYNFD  
FITMKPILKLDIK

>sp|Q9UPR0|PLCL2\_HUMAN Inactive phospholipase C-like protein 2 OS=Homo sapiens GN=PLCL2  
PE=1 SV=2

MAECGRGAAGGALPTSPGPALGAKGALKAGVGEGGGGGGRLGHGRARYDSGGVSNGDCS  
LGVSDEARASPTRGPRGVALAPTPSAVVCTLPRESKPGGLPRRSSIIKDGTKQKRERKK  
TVSFSSMPTEKKISSASDCINSMVEGSELKKVRSNSRIYHRYFLLDADMQSLRWEPSSKD  
SEKAKIDIKSIKEVRTGKNTDIFRSNGISDQISEDCAFSVIYGENYESLDLVANSADVAN  
IWTGLRRLISYGKHTLDMLESSQDNMRTSWVSQMFSEIDVDNLGHITLCNAVQCIRNLN

PGLKTSKIELKFELHKS KDKAGTEVTKEEFIEVFHELCTRPEIYFLLVQFSSNKEFLDT  
KDLMMFLEAEQGV AHINEEISLEIIHKYEPSKEGQEKWLSIDGFTNYLMSPDCYIFDPE  
HKKVCQDMKQPLSHYFINSSHTNYLIEDQFRGPSDITGYIRALKMGCRSVELDVWDGPDN  
EPVIYTGHTMTSQIVFRSVIDIINKYAFFASEYPLILCLENHCSIKQKQVMVQHMKKLLG  
DKLYTTSPNVEESYLPSPDVLKGKILIKAKKLSSNCSGVEGDVTDEDEGAEMSQRMGKEN  
MEQPNNVPVKRFQLCKELSELVSICKSVQFKEFQVSFQVQKYWEVCSFNEVLASKYANEN  
PGDFVNYNKRFLARVFPSPMRIDSSNMNPQDFWKCGCQIVAMNFQTPGLMMDLNIGWFRQ  
NGNCGYVLRPAIMREEVSFFSANTKDSVPGVSPQLLHIKIISGQNFPPKPGSGAKGDVVD  
PYVYVEIHGIPADCAEQRTKTVHQNQDAPIFDESFEFQINLPELAMVRFVVLDDDYIGDE  
FIGQYTIPFECLQTGYRHVPLQSLTGEVLAHASLFVHVAITNRRGGGKPHKRGLSVRKGK  
KSREYASRLTLWIKTVDEVFKNQPPIRDATDLRENMQNAVVSFKELCGLSSVANLMQCM  
LAVSPRFLGPDNTPLVVLNLSEQYPTMELQGIVPEVLKKIVTTYDMMIQLKALINADA  
VYEKIVHCQKAAMEFHEHLHSIGTKEGLKERKLQKAVESFTWNITILKGQADLLKYAKNE  
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>sp|Q9Y3B1|PLD3B\_HUMAN PRELI domain containing protein 3B OS=Homo sapiens GN=PRELID3B  
PE=2 SV=2

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LPSIVKSLIGAARTKTYVQEHSSVDPVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPE  
KTVLTQEAIITVKGVSLSYLEGLMASTISSNASKGREAMEWVIHKLNAEIEELTASARG  
TIRTPMAAAFAEK

>sp|Q6UQ28|PLET1\_HUMAN Placenta-expressed transcript 1 protein OS=Homo sapiens GN=PLET1  
PE=2 SV=2

MAVFHDMLLQPLGMFLCLSLQLSSATFIYSSCTCTFDEYYTITLDIKASSHIYESNAVY  
SVFVPVNDSVYAVVMKTLDENSDSAGLWQRADKNCYSNSTYYVKDQYMTVLEAQWQAPPEP  
ENITEVEIQAFQVQIRALPILSTLKLREKLSTLALAAKIPQSSAFKPPFMITPKSIRLEG  
LANQVFSSPITEAIYILLAFLTSTLLF

>sp|A6NEE1|PLHD1\_HUMAN Pleckstrin homology domain-containing family D member 1 OS=Homo  
sapiens GN=PLEKHD1 PE=2 SV=3

MFTSKSNSVSPSPSLEQADSDALDISTKVQLYGV LWKRPFGPSAKWSRRFFI IKESFLL  
YYSESEKKS FETNKYFNIHPKGVIP LGGCLVEPKEEPSMPYAMKISHQDFHGNILLAAES  
EFEQTQWLEMLQESGKVTWKNALGEAMIKSLEAQGLQLAKEKQEYLDKLMEETEELCLQ  
REQREELERLNQVLEAEKQQFEVVQELRMEQE QIKRELELTARCLKGVEQEKELRHLT  
ESLQQTLEELSIEKKKTLEMLEENENHLQTLANQSEQPPPSGGLHSNLRQIEEKMQLLE  
EKLLAEKRMKENEERSRALEEREFEYSSQS QALQNSLQELTAEKQQAERELKAEVKVRMD  
LERRLREAE GALRSLEQGLNSKVRNKEKEERM RADVSHLKRFFEECIRNAELEAKMPVIM  
KNSVYIHKAA TRRIKSCRFHRRRSSTSWNDMKPSQSFMTSQLDANNMEELKEVAKRLSRD  
QRFRESIYHIMATQPGAPSALSRGGK

>sp|Q96Q06|PLIN4\_HUMAN Perilipin-4 OS=Homo sapiens GN=PLIN4 PE=1 SV=2

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WTEKELQPSEKQMVSGAKDLVCSKMSRAKDAVSSGVASVVDVAKGVVQGGLDTTRSALTG  
TKEVVSSGVTGAMDMAKGAVQGGLDTSKAVLTGTKDTVSTGLTGAVNVAKGTVQAGVDTT  
KTVLTGTKDTVTTGVMGAVNLAKGTVQGTGVETSKAVLTGTKDAVSTGLTGAVNVARGSIQ  
TGVDTSKTVLTGTKDTVCSGVTGAMNVAKGTIQTGVDTSKTVLTGTKDTVCSGVTGAMNV  
AKGTIQTGVDTSKTVLTGTKDTVCSGVTGAMNVAKGTIQTGVDTT KTVLTGTKNTVCSGV

TGAVNLAKEAIQGGLDTTKSMVMGTDKTMSTGLTGAANVAKGAMQTGLNTTQNIATGTKD  
TVCSGVTGAMNLARGTIQTGVDTTKIVLTGTKD TVCSGVTGAANVAKGAVQGGLDTTKSV  
LTGTKDAVSTGLTGAVNVAKGTVQTGVDTTKTVLTGTKD TVCSGVTSAVNVAKGAVQGGL  
DTTKSVVIGTKD TMSTGLTGAANVAKGAVQTGVD TAKTVLTGTKD TVTGLVGAVNVAKG  
TVQTGMDTTKTVLTGTKD TIYSGVTSAVNVAKGAVQTGLKTTQNIATGKNTFGSGVTS  
VNVAKGAAQTGVD TAKTVLTGTKD TVTGLMGAVNVAKGTVQTSVDTTKTVLTGTKD TVC  
SGVTGAANVAKGAIQGGLDTTKSVLTGTKDAVSTGLTGAVKLAKGTVQTGMDTTKTVLTG  
TKDAVCSGVTGAANVAKGAVQMGVD TAKTVLTGTKD TVCSGVTGAANVAKGAVQTGLKTT  
QNIATGKNTLGSVGTGAAKVAKGAVQGGLDTTKSVLTGTKDAVSTGLTGAVNLAAGTVQ  
TGVDTSKTVLTGTKD TVCSGVTGAVNVAKGTVQTGVD TAKTVLSGAKDAVTTGVTGAVNV  
AKGTVQTGVDASKAVLMGTDKTVFSGVTGAMSMAGAVQGGLDTTKTVLTGTKDAVSAGL  
MSGNVATGATHTGLSTFQNWLPSTPATSWGGLTSSRTDNGGEQTALSPQEAPFSGIST  
PPDVL SVGPEPAWEAAATTKGLATDVATFTQGAAPGREDTGLLATTHGPEEAPRLAMLQN  
ELEGLGDI FHPMNAEEQAQLAASQPGPKVLSAEQGSYFVRLGDLGPSFRQRAFEHAVSHL  
QHGGFQARDTLAQLQDCFRLEKAQQAPEGQPRLDQGSASAEDA AVQEERDAGVLSRVC  
GLLRQLHTAYSGLVSSLQGLPAELQQPVGRARHSLCELYGIVASAGSVEELPAERLVQSR  
EGVHQAWQGLEQLLEGLQHNPLSWLVGPFALPAGGQ

>sp|Q00G26|PLIN5\_HUMAN Perilipin-5 OS=Homo sapiens GN=PLIN5 PE=1 SV=2

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ENCVCGLTTRALDHAQPLLEHLQPQLATMNSLACRGLDKLEEKLPFLQQPSETVVTSAKD  
VVASSVTGVVDLARRGRRWSVELKRSVSHAVDVLEKSEELVDHFLPMTEEEAALAAEA  
EGPEVGSVEDQRRQGYFVRLGSLSARIRHLAYEHSVGLRQSKHRAQDTLAQLQETLEL  
IDHMCCGVTPTAPACPGKVHELWGEWQRPPESSRRRSQAELETLVLSRSLTQELQGTVEA  
LESSVRGLPAGA QEKVAEVRSSVDALQTAFADARCFRDVPAALAEGRGRVAHAHACVDE  
LLELVVQAVPLPWLVGPFAPILVERPEPLPDLADLVDEVIGGPDPRWAHLDPWAQQRAW  
AEHRDGSNGDGRMGVAGDICEQEPETPSCPVKHTLMPELDF

>sp|Q9NYY3|PLK2\_HUMAN Serine/threonine-protein kinase PLK2 OS=Homo sapiens GN=PLK2 PE=1  
SV=3

MELLRTITYQPAASTKMCEQALGKCGADSKKKRPPQPPEESQPPQSAQVPPAAPHHHH  
HHSHSGPEISRIIVDPTTGKRYCRGKVLGKGGFAKCYEMTDLTNNKVYAAKIIPHSRVAK  
PHQREKIDKEIELHRILHHKHVVQFYHYFEDKENIYILLEYCSRRSMAHILKARKVLTEP  
EVRYLRQIVSGLKYLHEQEILHRDLKLG NFFINEAMELKVGDFGLAARLEPLEHRRRTI  
CGTPNYLSPEVLNKQGHGCESDI WALGCVMYTMLLGRPPFETT NLKETYRCIREARYTMP  
SSLLAPAKHLIASMLSKNPEDRPSLDDIIRHDFFLQGFTPDRLSSSCCHTVPDFHLSSPA  
KNFFKAAAALFGGKKDKARYIDTHNRVSKEDEDIYKLRHDLKKT SITQQPSKHRTDEEL  
QPPTTTVARSGTPAVENKQIGDAIRMIVRGTLGSCSSSSECLE DSTMGSVADTVARVLR  
GCLENMPEADCIPKEQLSTSFQWVTKWVDYSNKYGFYQLSDHTVGVLFNNGAHMSLLPD  
KKTVHYAAELGQCSVFPATDAPEQFISQVTVLKYFSHYMEENLMDGGDLPSVTDIRRPRL  
YLLQWLKSDKALMMLFNDGTFQVNFYHDHTKIIICSNQEEYLLTYINEDRISTTFRLTTL  
LMSGCSSELKNRMEYALNMLLQRCN

>sp|Q32ZL2|PLPR5\_HUMAN Phospholipid phosphatase-related protein type 5 OS=Homo sapiens  
GN=PLPPR5 PE=2 SV=2

MPLLPAAALTSSMLYFQMVMIMAGTVMLAYYFEYTDFTFVNVQGGFFCHDSAYRKPYPGPEDS  
SAVPPVLLYSLAAGVPVLV IIVGETAVFCLQLATRDFENQEKIILTGDCCYINPLVRRTV

RFLGIYTFGLFATDIFVNAGQVVTGNLAPHFLALCKPNYTALGCQYTQFISGEEACTGN  
PDLIMRARKTFPSKEAALSVYAAMYL TMYITNTIKAKGTRLAKPVLCLGLMCLAFLTGLN  
RVAEYRNHWSVDIAGFLVGISIAVFLVVCVNNFKGRQAENEHIHMDNLAQMPMISIPRV  
ESPLEKVTSVQNHITAEV T

>sp|O15162|PLS1\_HUMAN Phospholipid scramblase 1 OS=Homo sapiens GN=PLSCR1 PE=1 SV=1

MDKQNSQMNASHPETNLPVGYPPQYPPTAFQGPPGYSGYPGPQVSYP PPPAGHSGPGPAG  
FPVPNQPVYNQPVYNQPVGAAGVPWMPAPQPPLNCPGLEYLSQIDQILIHQQIELLEVL  
TGFETNNKYEIKNSFGQRVYFAAEDTDCCTRNC CGPSRPFTLR IIDNMGQEVITLERPLR  
CSSCCPCCLQEIEIQAPPGVPIGYVIQTWHPCLPKFTIQNEKREDVLKISGPCVVCSCC  
GDVDFEIKSLDEQCVVGKISKHWTGILREAF TDADNFGIQFPLDL DVKMAVMIGACFLI  
DFMFFESTGSQEQKSGVW

>sp|Q14651|PLS1\_HUMAN Plastin-1 OS=Homo sapiens GN=PLS1 PE=1 SV=2

MENSTTTISREELEELQEAFNKIDIDNSGYVSDYELQDLFKEASLPLPGYKVR EIVEKIL  
SVADSNKD GKISFEFVSLMQELKSKDISKTFRKI INKREGITAIGGTSTISSEGTQHSY  
SEEEKVAFVNWINKALENDPDCKHLIPMNPNDDSL FKS LADGILLCKMINLSEPD TIDER  
AINKKKLT PFTISENLNLALNSASAIGCTV VNI GASDLKEGKPHLVLGLLWQIIKVGLFA  
DIEISRNEALIALNEGEELEELMKLSPEELLRLRWNYHLTNAGWHTISNFSQDIKDSRA  
YFHLLNQIAPKGGEDGPAIAIDLSGINETNDLK RAGLMLQEADKL GCKQFVTPADV VSGN  
PKLNLA FVANLFNTY PCLHKPNNDIDMNLLEGESKEERTFRNWMNSLG VNPYINHLYSD  
LADALVIFQLYEMIRVPVNW SHVNKPPYPALGGMKKIENCNYA VELGKNKAKFSLVGIA  
GQDLNEG NSTLTLALVWQLMRRYTLNVLSDLGEGEKVND EIIKWNQTLKSANKKTSIS  
SFKDKSISTSLPVLDLIDAIAPNAVRQEMIRRENLSDEDKL NNAKYAISVARKIGARIYA  
LPDDLVEVKPKMVM TVFACLMGKGLNRIK

>sp|Q86SE9|PCGF5\_HUMAN Polycomb group RING finger protein 5 OS=Homo sapiens GN=PCGF5 PE=1 SV=1

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HETNPLEMLRLDNTLEEIIIFKLVPGLREQE LERESEFWKKNKPQENGQDDTSKADKPKVD  
EEGDENEDDKDYHRSDPQIAICLDCLRNNGQSGDNVVKGLMKKFIRCSTRVTVGTIKKFL  
SLKLKLPSSYELDVL CNGEIMGKDHTMEFIYMRWRLRGENFRCLNCSASQVCSQDGPLY  
QSYPMVLQYRPRIDFG

>sp|P41219|PERI\_HUMAN Peripherin OS=Homo sapiens GN=PRPH PE=1 SV=2

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RSPRAGAGALLRLPSERLDFSMAEALNQEF LATSNEKQELQELNDRFANFIEKVRFLEQ  
QNAALRGELS QARGQEPARADQLCQQLRELRLRELELLGRERDRVQVERDGLAEDLAALK  
QRLEETRKRKREDAEHNVLFRKD VDDATLSRLELERKIESLMDEIEFLKKLHEEELRDLQ  
VSVESQVQVQVEEATVKPELTAALRDIRAQYESIAAKNLQEAEEWYKSKYADLSDAANR  
NHEALRQAKQEMNESRRQIQSLTCEVDGLRG TNEALLRQLRELEEQFALEAGGYQAGAAR  
LEEELRQLKEEMARHLREYQELLNVKMALDIEIATYRKLEGEESRISVPVHSFASLNIK  
TTVPEVEPPQDSHSRKTVLIKTIETRNGEVVTESQKEQRSELDKSSAHSY

>sp|P22079|PERL\_HUMAN Lactoperoxidase OS=Homo sapiens GN=LPO PE=1 SV=2

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SSETPTSRLSEYLKHAKGRTRTAIRNGQVWEESLKR LRQKASLTNVTDPSLDLTSLSLE  
VGCGAPAPVVRCDPCSPYRTITGDCNNRRK PALGAANRALARWLP AEYEDGLSLPFGWTP  
GKTRNGFPLPLAREVSNKIVGYLNEEGVLDQNRSLLFMQWGQIVDHDLD FAPDTELGSSSE

YSKAQCDEYCIQGDNCFPIMFPPNDPKAGTQGKCMPPFFRAGFVCPTPPYKSLAREQINAL  
TSFLDASFVYSSEPSLASRLRNLSPLGLMAVNQEVSDHGLPYLPYDSKKPSPCEFINTT  
ARVPCFLAGDSRASEHILLATSHTLFLREHNRLARELKRLNPQWDGEKLYQEARKILGAF  
VQIITFRDYLPILLGDHMQKWIPPYQGYSESVDPRISNVFTFAFRFGHLEVPSSMFRLDE  
NYQPWGPEPELPLHTLFFNTWRMVKDGGIDPLVRGLLAKKSKLMKQNKMMTGELRNKLFQ  
PTHRIHGFDLAAINTQRCRDHGQPGYNSWRAFCDLSPQQTLEELNTVLKSKMLAKLLGL  
YGTDPNIDIWIGAIAPLVERGRVGPLLACLLGKQFQQIRDGDRFWWENPGVFTNEQKDS  
LQKMSFSRLVCDNTRITKVPRDPFWANSYPYDFVDCSAIDKLDLSPWASVKN

>sp|P05164|PERM\_HUMAN Myeloperoxidase OS=Homo sapiens GN=MPO PE=1 SV=1

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VALDLLERKLRLWRRPFNVTDVLTQAQLNVLSKSSGCAYQDVGVTCPEDKYRTITGMC  
NNRRSPTLGASNRAFVRWLPAYEYDGFSLPYGWTPGVKRNQFPVALARAVSNEIVRFPTD  
QLTPDQERSLMFMQWGQLLDHDLDFTEPAARASFVTGVCNCTSCVQQPPCFPLKIPPND  
PRIKNQADCIPFFRSCPACPGSNITIRNQINALTSFVDASMVYGSEEPLARNLRNMSNQL  
GLLAVNQRFQDNGRALLPFDNLHDDPCLLTNRSARIPFLAGDTRSEMPELTSMTLLL  
REHNRLATELKS LNPRWDGERLYQEARKIVGAMVQIITYRDYLPVLGPTAMRKYLPTYR  
SYNDSVPRIANVFTNAFRYGHTLIQPFMFRLDNRYQPMENPRVPLSRVFFASWRVVLE  
GGIDPILRGLMATPAKLNQNIQAVDEIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYN  
AWRRFCGLPQPETVGQLGTVLRLNKLARKLMEQYGTNNIDIWMGGVSEPLKRKGRVGPL  
LACIIGTQFRKL RDGDRFWWENEGVFSMQQRQALAQISLPRIICDNTGITTVSKNNIFMS  
NSYPRDFVNCSTLPALNLA SWREAS

>sp|P07202|PERT\_HUMAN Thyroid peroxidase OS=Homo sapiens GN=TPO PE=1 SV=4

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NLKKGILSPAQLLSFSKLPEPTSGV IARAAEIMETSIQAMKRKVNLTQQSQHPTDALS  
EDLLSIIANMSGCLPYMLPPKCPNTCLANKYRPITGACNNRDHPRWGASNTALARWLPPV  
YEDGFSQPRGWNPGFLYNGFPLPPVREVTRHVIQVSNEVVTDDDRYSDLLMAWGQYIDHD  
IAFTPQSTSKAAFGGGADCQMTCEQNPCFPIQLPEEARPAAGTACLPFYRSSAACGTGD  
QGALFGNLSTANPRQMNGLTSFLDASTVYGSSPALERQLRNWTSAEGLLRVHARLRDSG  
RAYLPFVPPRAPAACAPEPGIPGETRGPCFLAGDGRASEVPSLTALHTLWLREHNRLAAA  
LKALNAHWSADAVYQEARKVVGALHQIITLTDYIPRILGPEAFQYVGPYEGYDSTANPT  
VSNVFSTA AFRFGHATIHPLVRRLDASFQEHDPGLWLHQAFFSPWTLLRGGLDPLIR  
GLLARPAKLQVQDQLMNEELTERLFLVLSNSSTLDLASINLQGRDHGLPGYNEWREFCGL  
PRLETPADLSTAIASRSVADKILDLYKHPDNIDVWLGGLAENFLPRARTGPLFACLIGKQ  
MKALRDGDWFWWENSHVFTDAQRRELEKHSLSRVICDNTGLTRVPMDAFQVGKFPEDFES  
CDSITGMNLEAWRETFPQDDKCGFPESVENGDVHCEESGRRVLVYSCRHGVELQGREQL  
TCTQEGWDFQPPLCKDVNECADGAHPCHASARCRNTKGGFQCLCADPYELGDDGRTCVD  
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>sp|P61758|PFD3\_HUMAN Prefoldin subunit 3 OS=Homo sapiens GN=VBP1 PE=1 SV=3

MAAVKDSCGKGEMATGNRRHLHLGIPEAVFVEDVDSFMKQPGNETADTVLKKLDEQYQKY  
KFMELNLAQKKRRLKGQIPEIKQTLILKYMQKKKESTNSMETRFLADNLYCKASVPPT  
DKMCLWLGANVMLEYDIDEAQALLEKNLSTATKNLDSLEEDLDFLRDQFTTTEVN MARVY  
NWDVKRRNKDDSTKNKA

>sp|Q9NQP4|PFD4\_HUMAN Prefoldin subunit 4 OS=Homo sapiens GN=PFDN4 PE=1 SV=1

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DDDCLMIPYQIGDVFISHSQEETQEMLEEAKKNLQEEIDALESRVESIQRVLADLKVQLY  
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>sp|Q8WUB8|PHF10\_HUMAN PHD finger protein 10 OS=Homo sapiens GN=PHF10 PE=1 SV=3

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SQDLGFSYPAENLIEYKWPPDETGEYYMLQEYQVSEYLGVTSEYKRYPDLEERRDLSHKEK  
LYLRELVITETQCTLGLTALRSDEVIDLMIKEYPAKHAEYSVILQEKERQRITDHYKEY  
SQMQQQNTQKVEASKVPEYIKKAAKAAEFNSNLNRERMEERRAYFDLQTHVIQVPQGY  
KVLPTERTKVSSYPVALIPGQFQEYYKRYSPDELRYLPLNTALYEPPLDPELPALDSGDG  
SDDGEDGRGDEKRKNKGTSDSSSGNVSEGESPPDSQEDSFQGRQKSKDKAATPRKDGPKR  
SVLSKSVPGYKPKVIPNAICIGICKGKESNKKGKAESLIHCSQCENSGHPSCLDMTMELV  
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APPTPRKVGRRGKNSKEG

>sp|O94880|PHF14\_HUMAN PHD finger protein 14 OS=Homo sapiens GN=PHF14 PE=1 SV=2

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SEENILEEELNEDIKVKEEQLKNSAEEVLSSSEKQLIKMEKKEEEENERPRKKKEKEKE  
KEKEKEKEKEREKEKEKATVSENVAAASAAATPATSPPAVNTSPSVPTTTTATEEQVSEP  
KKWNLRRNRPLLDVFSMEELNDMDDYSEDNDWRPTVVKRKGSRASQKEGSDGDNEDDE  
DEGSGSDEDEDEGDEHDSSPASEGGCKKKKSKVLSRNSADDELTNDSLTLQSXSNE  
DSLILEKSQNWSQKMDHILICCVCLGDNSEDADEIIQCDNCGITVHEGCGYVDGESDSI  
MSSASENSTEPWFCDACKCGVSPSCLECPNQDGIFKETDAGRWWHIVCALYVPGVAFGDI  
DKLRPVTLTEMNYSKYGAKECSFCEDPRFARTGVCISCDAGMCRAVFHVTCAQKEGLLSE  
AAAEEDIADPFFAYCKQHADRDRKWKRNLYALQSYCKMSLQEREKQLSPEAQARINAR  
LQQYRAKAELARSTRPQAWVPREKLPRPLTSSASAIRKLMRKAELMGISTDIFPVDNSDT  
SSSVDGRRKHKQPALTADFVNYYFERNMRMIQIQENMAEQKNIKDLENEQEKLHVEYNK  
LCESLEELQNLNGKLRSEGQGIWALLGRITGQKLNIPAILRAPKERKPSKKEGGTQKTST  
LPVLYSCGICKNHQHLLLCDTCKLHYHLGCLDPPLTRMPRKTKNSYWQCSECDQAG  
SSDMEADMAMETLPDGTKRSRRIKEPVKFVPQDVPPEPKKIPIRNTRTRGRKRSFVPPEE  
EKHEERVPRERRQRQSVLQKKPKAEDLRTECATCKGTGDNENLVRYPS

>sp|Q9BW1|PHF7\_HUMAN PHD finger protein 7 OS=Homo sapiens GN=PHF7 PE=1 SV=1

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CLILSSKLPQRGQSNRGFHGFLPEDIKKEAARSRKICFVCKKKGAAINCQKDQCLRNFI  
LPCGQERGCLSQFFGEYKSFCDKHRPTQNIQGHVGEESCILCCEDLSQQSVENIQSPCC  
SQAIYHRKCIQKYAHTSAKHFFKCPQCNNRKEFPQEMLRMGIHIPDRDAAWELEPGAFSD  
LYQRYQHCDAPICLYEQGRDSFEDEGRWCLILCATCGSHGTHRDCSSLRSNSKKWECEEC  
SPAAATDYIPENSGDIPCCSSTFHPEEHFCRDNTLEENPGLSWTDWPEPSLLEKPESRG  
RRSYSWRSKGVIRITNSCKKSK

>sp|Q8TCT1|PHO1\_HUMAN Phosphoethanolamine/phosphocholine phosphatase OS=Homo sapiens  
GN=PHOSPHO1 PE=1 SV=1

MSGCFPVSGLRCLSRDGRMAAQGAPRFLTFDFDETIVDENSDDSIIVRAAPGQRLPESLR  
ATYREGFYNEYMQRVFKYLGEQGVPRDLSAIYEAIPLSPGMSDLLQFVAKQGACFEVIL  
ISDANTFGVLESSLRAAGHSLFRRLSNPSGPDARGLLALRPFHTHSCARCPANMCKHKV  
LSDYLREAHGCVHFERLFYVGDGANDFCPMGLLAGGDVAFPRRGYPMHRLIQEAQKAEP

SSFRAVVPWETAADVRLHLQQVLKSC

>sp|Q5SRE7|PHYD1\_HUMAN Phytanoyl-CoA dioxygenase domain-containing protein 1 OS=Homo sapiens GN=PHYHD1 PE=1 SV=2

MACLSPSQLQKFQDGLVLEGFLSAEECVAMQQRIGEIVAEMDVPLHCRTEFSTQEEEQ  
LRAQGSTDYFLSSGDKIRFFFEKGVFDEKGNFLVPPEKSINKIGHALHAHDPVFKSITHS  
FKVQTLARSLGLQMPVVVQSMYIFKQPHFGGEVSPHQDASFLYTEPLGRVLGVWIAVEDA  
TLENGCLWFIPGSHTSGVSRMRAPVGSAPGTSFLGSEPARDNSLFVPTPVQRGALVLI  
HGEVVHKSQNLSDRSRQAYTFHLMASGTTWSPENWLQPTAELPFPQLYT

>sp|O15428|PINL\_HUMAN Putative PIN1-like protein OS=Homo sapiens GN=PIN1P1 PE=5 SV=1

MADEEKLPPEGWEKMSRPSGRGYFNFHITNPSQWERPSGNSSSGGKIWQGEPARVRRSHL  
LVKPVKAALDLAAGNHPDQGGGPGADQRLHPEDQGRREGL

>sp|Q9UG56|PISD\_HUMAN Phosphatidylserine decarboxylase proenzyme, mitochondrial OS=Homo sapiens GN=PISD PE=2 SV=4

MATSVGHRCLGLLHGVPWRSSLHPCEITALSQSLQPLRKLPFRAFRTDARKIHTAPART  
MFLRLPLPILLVTGGGYAGYRQYKYRERELEKLGLEIPPKLAGHWEVALYKSVPTRLLS  
RAWGRLNQVELPHWLRRPVYSLYIWTFGVNMKEAAVEDLHHYRNLSEFFRRKLKPQARPV  
CGLHSVISPSDGRILNFGQVKNCEVEQVKGVYTSLSEFLGPRMCTEDLPFPPAASCDSEFK  
NQLVTREGNELYHCVIYLA PGDYHCFHSPTDWTVSHRRHFPGLMSVNPGMARWIKELFC  
HNERVLTGDWKHGFFSLTAVGATNVGSIIRIYFDRDLHTNSPRHSGSYNDFSFTHTNR  
EGVPMRKGEHLGEFNLGSTIVLIFEAPKDFNFQLKTGQKIRFGEALGSL

>sp|Q9GZP4|PITH1\_HUMAN PITH domain-containing protein 1 OS=Homo sapiens GN=PITHD1 PE=1 SV=1

MSHGSHGGGGCRCAAEREPEEQRLAYGLYLRLDLERLQCLNESREGSGRGVFKPWEE  
RTDRSKFVESDADEELLFNIPFTGNVCLKGIIIMGEDDDSHPSMRLYKNIPQMSFDDTE  
REPDQTFSLNRDLTGELEYATKISRFSNVYHLSIHISKNFADTTKVFIYGLRGWTELR  
RHEVTICNYEASANPADHRVHQVTPQTHFIS

>sp|O00562|PITM1\_HUMAN Membrane-associated phosphatidylinositol transfer protein 1 OS=Homo sapiens GN=PITPM1 PE=1 SV=4

MLIKEYHILLPMSLDEYQVAQLYMIQKKSREESSGEGSGVEILANRPYTDGPGSGQYTH  
KVYHVGSHIPGWFRALLPKAALQVEEESWNAYPYTRTRYTCPFVEKFSIEIETYLPDGG  
QQPNVFNLSGAERRQRLDITDIVRDAVAPGEYKAEDPRLYHSVKTGRGPLSDDWARTA  
AQTGPLMCAYKLCKVEFRYWGMAKIEQFIHDVGLRRVMLRAHRQAWCWQDEWTELSMAD  
IRALEEETARMLAQMAKCN TGSEGEAQQPGKPSTEARSAASNTGTPDGEAPP GPDAS  
PDASFGKQWSSSSSSSYSSQHGGAVSPQSLSEWRMNIARDSENSSEEEFFDAHEGFSDS  
EEVFPKEMTKWNSNDFIDAFASPVEAEGTPEPGAEEAKGIEDGAQAPRDSEGLDGAGELG  
AEACAVHALFLILHSGNILDSPGDANSKQADVQTLSSAFEAVTRIHFPEALGHVALRLV  
PCPPICAAAYALVSNLSPYSHDGDLSRSQDHIPLAALPLLATSSSRYQGAVATVIARTN  
QAYSAFRLRPEGAGFCGQVALIGDVGILGFDALCHSANAGTSGRGSRRGSMNNELLS  
PEFGPVRDPLADGVEGLGRGSEPSALPPQRIPSDMASPEPEGSQNSLQAAPATTSSWEP  
RRASTAFCPAAASSEAPDGPSSTARLDFKVGFFLFGSPLGLVLALRKTVM PALEAAQMR  
PACEQIYNLFHAADPCASRLPPLAPKFQAIAPLTVPRYQKFPLGDGSSLLLADTLQTHS  
SLFLEELEMLVPSTPTSTSGAFWKSELATDPPAQAAPSTTSEVVKILERWWGTRIDY  
SLYCEALTAFPTVTLPHLFHASYWESADVAFILRQVIEKERPQLAECEEPSIYSPAFP  
REKWQRKRTQVKIRNVTSNHRASDTVCEGRPQVLSGRFMYGPLDVVTLTGEKVDVYIMT



QPLSGKWIHFGEVTNSSGRLTFVPPERALGIGVYPVRMVVRGDHTYAECCLTVVARGT  
EAVVFSIDGSFTASVSIMGSDPKVRAGAVDVVRHWQDSGYLIVYVTGRPDMQKHRVVAWL  
SQHNFPHGVSFCDLTHDPLRQKAMFLQSLVQEVELNIVAGYGSQKDVAVYAALGLSPS  
QTYIVGRAVRKLQAQCQFLSDGYVAHLGQLEAGSHSHASSGPPRAALGKSSYGVAAPVDF  
LRKQSQLLRSRGPSQAEREGPGTPPTTLARGKARSISLKL DSEE

>sp|075364|PITX3\_HUMAN Pituitary homeobox 3 OS=Homo sapiens GN=PITX3 PE=1 SV=1  
MEFGLLSEAEARSPALSLSDAGTPHPQLPEHGCKGQEHS DSEKASASLPGGSPEDGSLKK  
KQRRQRTHFTSQQLQELEATFQRNRYPD MSTREEIAVWTNLTEARVRVWFKNRRAKWRKR  
ERSQQAE LCKGSFAAPLGLVPPYEEVYPGYSYGNWPPKALAPPLAAKTFPFAFNSVNVG  
PLASQPVFSPPSSIAASMVPSAAAAPGTVPGPGALQGLGGPPGLAPAAVSSGAVSCPYA  
SAAAAAAAAASSPYVRDPCNSSLASRLKAKQHASF SYPVHGPPPAANLSPCQYAVER  
PV

>sp|Q7Z3Z3|PIWL3\_HUMAN Piwi-like protein 3 OS=Homo sapiens GN=PIWIL3 PE=2 SV=2  
MPGRARTRARGRARRRESYQQEAPGGPRAPGSATTQEPPQLQSTPRPLQEEVPVVRPLQP  
RAARGGAGGGAQSQGVKEPGPEAGLHTAPLQERRIGGVFQDLVVNTRQDMKHVKDSKTGS  
EGTVVQLLANHFRVISRPQWVAYKYNVDYKPDIEDGNLRTILLDQHRRKFGERHIFDGNS  
LLLSRPLKERRVEWLSTTKDNIVKITVEFSKELTPTSPDCLRYYNILFRRTFKLLDFEQ  
VGRNYYTKKKA IQLYRHGTSLEIWLGYVTSVLQYENSITLCADVSHKLLRIETAYDFIKR  
TSAQAQTGNIREEVTNKLIGSIVLTKYNNKTYRVDDIDWKQNPEDTFNKSDGSKITYIDY  
YRQQHKEIVTVKKQPLLVSQGRWKKGLTGTQREPILLIPQLCHMTGLTDEICKDYSIVKE  
LAKHTRLSPRRRHHTLKEFINTLQDNKKVRELLQLWDLKFDTNFLSVPGRVLKNANIVQG  
RRMVKANSQGDWSREIRELPLLNAMPLHSWLILYSRSSHREAMSLKGHLQSVTAPMGITM  
KPAEMIEVDGDANSYIDTLRKYTRPTLQMGMSCLLVFKVICILPNDDKRRYDSIKRYLCT  
KCPIPSQC VVKKTLEKVQARTIVTKIAQQMNCKMGALWKVETDVQRTMFVGIDCFHDIV  
NRQKSIAGFVASTNAELTKWYSQCVIQKTGEELVKELEICLKAALDVWCKNESSMPHSVI  
VYRDGVGDGQLQALLDHEAKKMSTYLKTI SPNNFTLAFIVVKKRINTRFFLKHGSNFQNP  
PPGTVIDVELTRNEWYDFIVSQSVQDGTVP THYNVIYDTIGLSPDTVQRLTYCLCHMY  
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>sp|QOZLH3|PJVK\_HUMAN Pejvakine OS=Homo sapiens GN=DFNB59 PE=1 SV=1  
MFAAATKSFVKQVG DGGRLVPVPSLSEADKYQPLSLVKKKRCFLFPRYKFTSTPFTLKD  
ILLGDREISAGISSYQLN YEDES DVS LYGRRGNHIVNDVGIN VAGSDSIAVKASFGIVT  
KHEVEVSTLLKEITTRKINF D HSLIRQSRSSRKAVLCVMESIRTRQCSLSVHAGIRGE  
AMRFHFMD EQNPKGRDKAIVFPAHTTIAFSVFELFIYLDGAFDLCVTSVSKGGFEREETA  
TFALLYRLRNILFERNRRVMDVISRSQLYLDDLFS DYYDKPLSMTDISLKEGTHIRVNLL  
NHNIPKGPCILCGMGNFKRETVYGCFCQSV DGGQKYVRLHAVPCFDIWHKRMK

>sp|Q13835|PKP1\_HUMAN Plakophilin-1 OS=Homo sapiens GN=PKP1 PE=1 SV=2  
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TLSHSNRGS MYDGLADNYNGTTSRSSYYSKFQAGNGSWGYPIYNGTLKREP DNRRFSSY  
SQMENWSRHYPRGSCNTTGAGSDICFMQKIKASRSEPDLYCDPRGTLRKGTLGSKGQKTT  
QNRYSFYSTCSGQKAIKKCPVRPPSCASKQDPVYIPPI SCNKDLSFGHSRASSKICSEDI  
ECSGLTIPKAVQYLSSQDEKYQAIGAYYIQHTCFQDESAKQQVYQLGGICKLV D LLRSPN  
QNVQAAAAGALRNLFVRSTTNKLETRRQNGIREAVSLLRRTGNAEIQKQLTGLLWNLSST  
DELKEELIADALPVLADRVII PFSGWCDGNSNMSREVVDPEVFFNATGCLRKRLGMRELL  
ALVPQRATSSRVNLSSADAGRQTM RNYSGLIDSLMAYVQNCVAASRCDDKSVENCMCVLH

NLSYRLDAEVPTRYRQLEYNARNAYTEKSSSTGCFSNKS DKMMNNYDCPLPEEETNPKGS  
GWLYHSDAIRTYLNLMGKSKKDATLEACAGALQNLTASKGLMSSGMSQLIGLKEKGLPQI  
ARLLQSGNSDVVRSGASLLSNMSRHPLLRVMGNQVFPEVTRLLTSHTGNTSSEDLSS  
ACYTVRNLMA SQPQLAKQYFSSSMLNNI INLCRSSASPKAAEAARLLLSDMWSSKELQGV  
LRQQGFDRNMLGTLAGANSLRNFTSRF

>sp|Q8TCW9|PKR1\_HUMAN Prokineticin receptor 1 OS=Homo sapiens GN=PROKR1 PE=1 SV=1

METTMGFMDNATNTSTSFSLVNLPHGAHATSF PFNF SYSDYDMPLEDEDVTNSRTFFA  
AKIVIGMALVGIMLVCGIGNFIFIAALVRYKKLRNLNLLIANLAISDFLVAIVCCPFEM  
DYYVVRQLSWEHGHVLCSTVNYLRTVSLYVSTNALLAIAIDRYLAIVHPLRPRMKCQTAT  
GLIALVWTVSILIAIPSAFTTETVLVIVKSQEKIFCGQIWPVDQQLYKSYFLFIGIE  
FVGPPVTMTLCYARISRELWFAVPGFQTEQIRKRLRCRRKTVLVLMCILTAYVLCWAPF  
YGFTIVRDFPTVFVKEKHYLTAFYIVECIAMSNMINTLCFVTVKNDTVKYFKKIMLLH  
WKASYNGGKSSADLDLKTIGMPATEEVDCIRLK

>sp|Q5JTB6|PLAC9\_HUMAN Placenta-specific protein 9 OS=Homo sapiens GN=PLAC9 PE=1 SV=1

MRPLLALTLGLALLRAAGSLAAAEFSPPRGDSAQSTACDRHMAVQRRLDVMEEMVEKTV  
DHLGTEVKGLLGLLEELAWNLP GPFPSPAPDLLGDGF

>sp|Q6P1J6|PLB1\_HUMAN Phospholipase B1, membrane-associated OS=Homo sapiens GN=PLB1 PE=1  
SV=3

MGLRPGIFLLELLLLLGQGPQIHTSPRKSTLEGQLWPETLKNSPFPCNPKNLGVNMPK  
SVHSLKPSDIKFVAAIGNLEIPDPGTGDLEKQDWTERPQQVCMGVMTVLSDIIRYFSPS  
VPMPVCHTGKRVIPHDGAEDLWIIQAQELVRNMKENLQLDFQFDWKLINVFFSNASQCYLC  
PSAQQNGLAAGGVDELMGVLDYLQGEVPRAFVNLVDLSEVAEVSRYHGTWLSPAPEPCN  
CSEETTRLAKVVMQWSYQEAWNSLLASSRYSEQESFTVVFPFFYETTPSLHSEDPRLQD  
STTLAWHLWNRMMEPAGEKDEPLSVKHGRPMKCPSQESPYLFSYRNSNYLTRLQKPQDKL  
EVREGAEIRCPDKDPSDTVPTSVHRLKPADINVIGALGDSL TAGNGAGSTPGNVLDVLTQ  
YRGLSWSVGGDENIGTVTTLANILREFNPSLKGFSVGTGKETSPNAFLNQAVAGGRAEDL  
PVQARRLV DLMKNDTRIHFQEDWKIIITLFIGGNDLCDFCNDLVHYSQNFDTNIGKALDI  
LHAEVPRAFVNLVTVLEIVNLRELYQEKKVYCPRMILRSLCPCVLKFDDNSTELATLIEF  
NKKFQEKTHQLIESGRYDTREDFTVVVQPF FENVDMPKTSEGLPDNSFFAPDC FHFSSKS  
HSRAASALWNNMLEPVGQKTTRHKFENKINITCPNQVQPFLRTYKNSMQGHGTWLP CRDR  
APSALHPTSVHALRPADIQVVAALGDSL TAGNGIGSKPDDL PDVTTQYRGLSYSAGGDGS  
LENVTTLPNILREFNRNL TGYAVGTGDANDTNAFLNQAVPGAKAEDLMSQVQTL MQKMKD  
DHRVNFHEDWKVITVLI GGS D L C D Y C T D S N L Y S A A N F V H H L R N A L D V L H R E V P R V L V N L V  
D F L N P T I M R Q V F L G N P D K C P V Q Q A S V L C N C V L T L R E N S Q E L A R L E A F S R A Y R S S M R E L V G  
S G R Y D T Q E D F S V V L Q P F F Q N I Q L P V L A D G L P D T S F F A P D C I H P N Q K F H S Q L A R A L W T N M L  
E P L G S K T E T L D L R A E M P I T C P T Q N E P F L R T P R N S N Y T Y I K P A I E N W G S D F L C T E W K A S N  
S V P T S V H Q L R P A D I K V V A A L G D S L T T A V G A R P N N S S D L P T S W R G L S W S I G G D G N L E T H T T  
L P N I L K K F N P Y L L G F S T S T W E G T A G L N V A A E G A R A R D M P A Q A W D L V E R M K N S P D I N L E K D  
W K L V T L F I G V N D L C H Y C E N P E A H L A T E Y V Q H I Q Q A L D I L S E E L P R A F V N V V E V M E L A S L Y  
Q G Q G G K C A M L A A Q N N C T C L R H S Q S S L E K Q E L K K V N W N L Q H G I S S F S Y W H Q Y T Q R E D F A V V  
V Q P F F Q N T L T P L N E R G D T D L T F F S E D C F H F S D R G H A E M A I A L W N N M L E P V G R K T T S N N F T  
H S R A K L K C P S P E S P Y L T L R N S R L L P D Q A E E A P E V L Y W A V P V A A G V G L V V G I I G T V V W R C  
R R G G R R E D P P M S L R T V A L

>sp|Q9NQ66|PLCB1\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1

OS=Homo sapiens GN=PLCB1 PE=1 SV=1

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AFQEEVAKewTNEVfSLATNLLAQNMSRDAFLEKAYTKLKLQVTPEGRIPLKNIYRLFSA  
DRKRVETALEACSLPSSRNDSIPQEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAKSKPYL  
TVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIKEYEPNNSLARKGQISVDGFMRYLS  
GEENGVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLSGCRCV  
ELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHVDSPKQ  
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KLSEQASNTYSDSSSMFEPSSPGAGEADTESDDDDDDDDCKKSSMDEGTAGSEAMATEEM  
SNLVNYIQPVKFESFEISKRNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQLSRIYPK  
GTRVDSSNYMPQLFWNAGCQMVAlNFQTMDLAMQINMGMYEYNGKSGYRLKPEFMRRPDK  
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NAVNPVWEEEPVfVKVVLPTLACLRIAVYEEGGKfIGHRIIPVQAIrPGYHYICLRNER  
NQPLTLPAVFVYIEVKDYVPDtyADVIEALSNPIRYVNLMEQRAKQLAALTLEDEEEVKK  
EADPGETPSEAPSEARTTPAENGvNHTTTLTPKPPSQALHSQPAPGSVKAPAKTEDLIQS  
VLTEVEAQTIeELKQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYNEIQNDYL  
RRRAALEKSakKDSKKKSEPSSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQLNLNR  
QEQYYEKYQKREHIKLLIQKLTdVAEECQNNQLKKLKEICEKEKKELKKKMDKKRQEKI  
TEAKSKDKSQMEEETEMIRSYIQEVVQYIKRLEEAQSKRQEKLVeKHKEIRQQILDEKP  
KLQVELEQEQYQDKFKRLPLEILEFVQeAMKGKISEDsNHGSAPLSLSSDPGKVNHKTPSS  
EELGGDIPGKEFDTPL

>sp|Q01970|PLCB3\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3

OS=Homo sapiens GN=PLCB3 PE=1 SV=2

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MAVQDDTAKVWSEELfKLAMNILAQNAsRNTfLRKAYTKLKLQVNQDGRIPVKNILKMFS  
ADKKRVETALESCGLKFNRSESIRPDEFSLEIFERfLNLKCLRDPIDKILLEIGAKGKPY  
LTLEQLMDFINQKQRDPRLNEVLYPPLRPSQARLLIEKYEPNQQFLERDQMSMEGFSRYL  
GGEENGILPLEALDLSTDMTQPLSAYFINSSHNTYLTAGQLAGTSSVEMYRQALLWGCRC  
VELDVWKGRPPEEPfITHGFTMTTEVPLRDVLEAIAETAfKTSPPVILSFENHVDSAK  
QQAKMAEYCRSIFGDALLIEPLDKYPLAPGVPLPSPQDLMGRILVKNKKRHRPSAGGPDS  
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EGLNRGPYVLGPADREDEEEDEEEEEEQTDPKKPTTDEGTASSEVNATEEMSTLVNYIEPV  
KFKSFEEAARKRNKCFEMSSFVETKAMEQLTKSPMEFVEYNKQQLSRIYPKGTRVDSSNYM  
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DGIVANALRVKVISGQFLSDRKVGiyVEVDMFGLPVDTRRKYRTRTSQNSfNPVWDEEP  
FDFPKVVLPTLASLRIAAFEeGGKfVGHRIIPVSAIRSGYHYVCLRNEANQPLCLPALLI  
YTEASDYIPDDHqDYAEALINPIKHVSLMDQRARQLAALIGESEAQAGQETCQDTQSQQ  
GSQPSSNPTPSPLDASPRRPPGPTTSPASTSLSSPGQRDDLIASILSEVAPTPLDELRGH  
KALVKLRSRQERDLRELKKHQRKAVTLTRRLDGLAQAQAEGRCLRPgALGGAADVED  
TKEGEDEAKRYQEFQNRQVQSLLLELReAQVDAAEQRRLEHLRQALQRLREVVLdANTTQF  
KRLKEMNEREKELQKILDRKRHNSISEAKMRDKHKKEAELTEINRRHITESVNSIRRLE

EAQKQRHDLVAGQQQVLQQLAEEEPKLLAQLAQECQEQRARLPQEIRRSLLGEMPEGLG  
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>sp|O15120|PLCB\_HUMAN 1-acyl-sn-glycerol-3-phosphate acyltransferase beta OS=Homo sapiens  
GN=AGPAT2 PE=1 SV=1

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SIIGWFVRSFKYFYGLRFEVRDPRLQEARPCVIVSNHQSILDMGLMEVLPERCVQIAK  
RELLFLGPVGLIMYLGGVFFINRQSSSTAMTMADLGERMVRENKVVWIYPEGTRNDNGD  
LLPFKKGAFYLAVQAQVPIPVVYSSFSFYNTKKKFFTSGTVTVQVLEAIPTSGLTAAD  
VPALVDTCHRAMRTTFLHISKTPQENGATAGSGVQPAQ

>sp|Q9NUQ2|PLCE\_HUMAN 1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon OS=Homo  
sapiens GN=AGPAT5 PE=1 SV=3

MLLSLVLHTYSMRYLLPSVLLGTAPTYVLAWGVWRLLSAFLPARFYQALDDRLYCVYQS  
MVLFFFENYTGVIILLYGDLPKNKENIIYLANHQSTVDWIVADILAIRQNALGHVRYVLK  
EGLKWLPLYGCYFAHQGGIYVKRSKAFNEKEMRNKLQSYVDAGTPMYLVIFPEGTRYNPE  
QTKVLSASQAFAAQGLAVLKHVLTPIKATHVAFDCMKNYLDIYDVTVVYEGKDDGGQ  
RRESPTMTEFLCKECPKIHIIHIDRIDKKDVPEEQEHMRRWLHERFEIKDKMLIEFYESPD  
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TIKA

>sp|Q4KWH8|PLCH1\_HUMAN 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase eta-1  
OS=Homo sapiens GN=PLCH1 PE=1 SV=1

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KVEQKMNNVTTDYCLDIKKFEVSEENKVNVLGIEGFTNFMRSACDIFNPLHHEVYQD  
MDQPLCNYYIASSHNTYLTGDQLLSQSKVDMYARVLQEGCRCVEVDCWDGPDGEPVHHG  
YT LTSKILFRDVVETINKHAFVKNFPVILSIENHCSIQQQRKIAQYLKGFIDKLDLSS  
VDTGECKQLPSPQSLKGKILVKGKKLPYHLGDDAEEGEVSDSDADEIEDECKFKLHYSN  
GTTEHQVESFIRKKLESLLKESQIRDKEDPDSFTVRALLKATHEGLNAHLKQSPDVKESG  
KKSHGRSLMTNFGKHKKTKSRKSYSTDDEEDTQQSTGKEGGQLYRLGRRRKTMKLCRE  
LSDLVYYTNSVAAQDIVDDGTGNVLSFSETRAHQVVQQKSEQFMIYNQKQLTRIYPSAY  
RIDSSNFNPLPYWAGCQLVALNYQSEGRMMQLNRAKFKANGNCGYVLKPQQMCKGTNP  
FSGDPLPANPKKQLILKVISGQQLPKPPDSMFGDRGEIIDPFVEVEIIGLPVDCKDQTR  
VVDDNGFNVPVWEETLTFTVHMPEIALVRFLVWDHDPIGRDFVGQRTVTFSSLPVGYRHVY  
LEGLTEASIFVHITINEIYGKWSPLILNPSYTIHLFLGATKNRQLQGLKGLFNKNPRHSS  
SENNSHYVRKRSIGDRILRRTASAPAKGRKSKMGFQEMVEIKDSVSEATRDQDGLRRT  
TRSLQARPVSMPVDRNLLGALSPLVSETAKDIEGKENS LAEDKDGRKKGASIKDPHFLN  
FNKKLSSSSSALLHKDTSQGDITIVSTAHMSVTGEQLGMSSPRGGRTTSNATSNQENPCP  
SKSLSPKQHLAPDPVNPQTDLHG VKIKEKGNPEDFVEGKSILSGSVLSHSNLEIKNLEG  
NRGKGRAATSFSLSDVSMCLSDIPDLHSTAILQESVISHLIDNVTLTNENEPGSSISALI  
GQFDETNQALTVVSHLHNTSVMSGHCPLPSLGLKMPIKHGFCKGKSSFLCSSPELIA  
LSSSETTKHATNTVYETTCTPISKTKPDDDLSSKAKTAALESNLPSPNTSRGWLPKSPT  
KGEDWETLKSCSPASSPDLTLEDVIADPTLCFNSGESSLVEIDGESENLSLTTCEYRREG  
TSQLASPLKLKYNQGVVEHFQGRLRNGYCKETLRPSVPEIFNNIQDVKTQSISYLAYQGA

GFVHNHFSDDAKMFQTCVPQQSSAQDMHVPVPKQLAHLPLPALKLPSPCKSKSLGDLTS  
EDIACNFESKYQCISKSFVTTGIRDKKGVTVKTSLEPIDALTEQLRKLVSFQEDNCQV  
LYSKQDANQLPRALVRKLSSRSQSRVRNIASRAKEKQEANKQKVPNPSNGAGVVLNRNPKS  
APTPAVNRHSTGSYIAGYLKNTKGGGLEGRGIEGACTALHYGHVDQFCSDNSVLQTEPS  
SDDKPEIYFLLRL

>sp|QOVAA5|PLCX2\_HUMAN PI-PLC X domain-containing protein 2 OS=Homo sapiens GN=PLCX2  
PE=2 SV=1

MLAVRKARRKLRMGTICSPNPSGTKTSSEVCNADWMASLPPHLHNLPLSNLAIPGSHDSF  
SYWVDEKSPVGPDQTQAIKRLARISLVKKLMKKWSVTQNLTFREQLEAGIRYFDLRVSSK  
PGDADQEIYFIHGLFGIKVWDGLMEIDSFLTQHPQEIIFLDFNHFYAMDETHHKCLVLRI  
QEAFGNKLCPACSVESLTLRTLWEKNCQVLIFYHCPFYKQYPFLWPGKKIPAPWANTTSV  
RKLILFLETTLSERASRGSFHVSQAILTPRVKTIARGLVGGLKNTLVHSNRWNSHGPSLL  
SQERS

>sp|Q63HM9|PLCX3\_HUMAN PI-PLC X domain-containing protein 3 OS=Homo sapiens GN=PLCX3  
PE=2 SV=2

MASSQGKNELKLADWMATLPESMHSIPLTNLAIPGSHDSFSFYIDEASPVGPEQPETVQN  
FVSVFGTVAKKLMRKWLATQTMNFTGQLGAGIRYFDLRISTKPRDPDNELYFAHGLFSAK  
VNEGLEEINAFLTDHHEKVVFLDFNHFYGMQKYHHEKLVQMLKDIYGNKMCPAIFAQEV  
LKYLWEKDYQVLVFYHSPVALEVPFLWPGQMPAPWANTTDPEKLIQFLQASITERKKG  
SFFISQVVLTPKASTVVKGVASGLRETITERALPAMMQWVRTQKPGESGINIVTADFVEL  
GDFISTVIKLNIVFDEGEANT

>sp|Q8IV08|PLD3\_HUMAN Phospholipase D3 OS=Homo sapiens GN=PLD3 PE=1 SV=1

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EYGDHLHFGPNQRPAICYDCEAVLVESIPEGLDFPNASTGNPSTSQAWLGLLAGAHSSL  
DIASFYWTLTNNDHTHQEPSAQGEVLRQLQTLAPKGVNVRIAVSKPSGPQPQADLQAL  
LQSGAQVRMVMQKLTHGVLTQFVVDQTHFYLG SANMDWRSLTQVKELGVVMYNCSC  
ARDLTKIFEAYWFLGQAGSSIPSTWPRFYDTRYNETPMEICLNGTPALAYLASAPPLC  
PSGRTPDLKALLNVVDNARSFIYVAVMNYLPTLEFSHPHRFWPAIDGGLRRATYERGVK  
VRLISCWGHSEPSMRAFLLSLAALRDNHTSDIQVKLFVVPADAEQARIPYARVNHNKYM  
VTERATYIGTSNWSGNYFTETAGTSLLVTQNGRGGLRSQLEAIFLRDWDSPYSHDLDTSA  
DSVGNACRL

>sp|Q8N2A8|PLD6\_HUMAN Mitochondrial cardiolipin hydrolase OS=Homo sapiens GN=PLD6 PE=1  
SV=1

MGRLSWQVAAAAVGLALTLEALPWVLRWLSRRRRRPREALFFPSQVTCTEALLRAPGA  
ELAELPEGCPGLPHGESALSRLRLALLAARASLDLCLFAFSSPQLGRAVQLLHQRGVRV  
RVVTD CDYMALNGSQIGLLRKAGIQVRHDQDPGYMHHKFAIVDKRVLITGSLNWTQAIQ  
NNRENVLITEDDEYVRLFEEFERIWEQFNPTKYTFPPKKSHGSCAPPVSRAGGRLLSW  
HRTCGTSSESQT

>sp|Q15195|PLGA\_HUMAN Plasminogen-like protein A OS=Homo sapiens GN=PLGA PE=2 SV=1

MEHKEVLLLLLLFLKSGQGEPLDDYVNAQGASLFSVTKKQLGAGSREECAAKCEEDKEFT  
CRAFQYHSKEQQCVIMAENKKSSIIIRMRDVVLFKE

>sp|P53350|PLK1\_HUMAN Serine/threonine-protein kinase PLK1 OS=Homo sapiens GN=PLK1 PE=1  
SV=1

MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRSRRRRYVRGRFLG

KGGFAKCFEISDADTKEVFAGKIVPKSLLLKPHQREKMSMEISIHRS LAHQHVVG FHGFF  
EDNDFV FV VLELCRRRS LLELHKRRKALTEPEARYYLRQIVLGCQYLHRNRVIHRDLKLG  
NLFLNEDLEV KIGDFGLATKVEYDGERKKTLCGTPNYIAPEVLSKKGHSFEVDVWSIGCI  
MYTLLVGKPPFETSKETYLR IKKNEYSIPKHINPVAASLIQKMLQTDPTARPTINELL  
NDEFFTSGYIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGLNPLPERPREKEE  
PVVRETGEVVDCHLS DMLQQ LHSVNASKPSE RGLVRQEEAEDPACIPIFWVSKWVDYSDK  
YGLGYQLCDNSVGVL FNDSTR LILYNDGDSLQYIERDGTESYLT VSSHPNSLMKKITLLK  
YFRNYMSEHLLKAGANITPREGDELARLPYLRTWFRTRSAIILHLSNGSVQINFFQDHTK  
LILCPLMAAVTYIDEKRDFRTYRLSLLEYGCCKE LASRLRYARTMVDKLLSSRSASNRL  
KAS

>sp|000168|PLM\_HUMAN Phospholemmann OS=Homo sapiens GN=FXYD1 PE=1 SV=2  
MASLGHILVFCVGLLTMAKAESPKEHDPFTYDYQSLQIGGLVIAGILFILGILIVLSRRC  
RCKFNQQQRTGEPDEEEGTFRSSIRRLSTRRR

>sp|Q8IZL8|PELP1\_HUMAN Proline-, glutamic acid- and leucine-rich protein 1 OS=Homo sapiens  
GN=PELP1 PE=1 SV=2

MAAAVLSGPSAGSAAGVPGGTGGLSAVSSGPRLRLLLLLESVSGLLQPRTGSAVAPVHPPN  
RSAPHLPGMLCLRLHGSVGAQNL SALGALVSLSNARLSSIKTRFEGLCLLSLLVGESP  
TELFQQHCVSWLRSIQVLQTQDPPATMELAVAVLRDLLRYAAQLPALFRDISMNLPG  
LTSLGLRPECEQSALEGMKACMTYFPRACGSLKGKLSFFLSRVDALSPQLQLACECY  
SRPLSLGAGFSQGLKHTESWEQELHSLLASLHTLLGALYEGAETAPVQNEGPGVEMLLSS  
EDGDAHVLLQLRQRFSGLARCLGLMLSSEFGAPVSVPVQEILDFICRTL SVSSKNISLHG  
DGPLRLLLLPSIHLEALDLLSALILACGSRLRFRGILIGRLLPQVLNWSIGRDSLSPGQ  
ERPYSTVRTKVYAILELWVQVCGASAGMLQGGASGEALLTHLLSDISPPADALKLRSPRG  
SPDGS LQTGKPSAPKKLKL DVGEAMAPPSHRKGDSNANS DVC AAALRGLSRTILMCGPLI  
KEETHRRLHDLVLPVMGVQQGEVLGSSPYTSSRCRRELYCLLLALLAPSPRCPPPLAC  
ALQAFSLGQREDSLEVSSFCSEALVTCAALTHPRVPPLQPMGPTCPTAPVPPPEAPSPF  
RAPPFHPPGPMPSVSGMPSAGPMPSAGPMPSAGPVPSARPGPPTANHLGLSVPGLVSV  
PRLLPGENHRAGSNEDPILAPSGTPPTIPPDETFGGRVPRPAFVHYDKEEASDVEISL  
ESDSDSVVIVPEGLPPLPPPPSGATPPP IAPTGPPTASPPVPAKEEPEELPAAPGLP  
PPPPPPPPVPGPVTLP PPQLVPEGTPGGGGPPALEEDLTVININSSDEEEEEEEEEEEEE  
EEEEEEEEDEEEEEDEEYFEEEEEEEEEFEEEFEEEGELEEEEEEEEEEEEEEELEEV  
EDLEFGTAGGEVEEGAPPPPTLPALPPPESPPKVQPEPEPEPGLLLEVEEPGTEEERGA  
DTAPT LAPEALPSQGEVEREGESPAAGPPPQELVEEESAPPTLLEETEDGSDKVQPPP  
ETPAEEEMETETEAELQEKEQDDTAAMLADFIDCPPDDEKPPPTEPDS

>sp|Q9UBM1|PEMT\_HUMAN Phosphatidylethanolamine N-methyltransferase OS=Homo sapiens  
GN=PEMT PE=1 SV=4

MTRLLGYVDPLDPSFVAAVITITFNPLYWNVVARWEHKTRKLSRAFGSPYLACYSLSVTI  
LLLNLFRSHCFTQAMLSQPRMESLDTPAAYSLGLALLGLGVVLVSSFFALGFAGTFLGD  
YFGILKEARVTVFPFNILDNPMYWGSTANYLGWAIMHASPTGLLLTVLVALTYIVALLYE  
EPFTA EIYRQKASGSHKRS

>sp|PODJD9|PEPA5\_HUMAN Pepsin A-5 OS=Homo sapiens GN=PGA5 PE=1 SV=1  
MKWLLLLGLVALSECIMYKVPLIRKKSRLRRLTLSEGLLKDFLKKHNLNPARKYFPQWEAP  
TLVDEQPLENYLDMEYFGTIGITPAQDFTVVFDTGSSNLWVPSVYCSSLACTNHNRFNP  
EDSSTYQSTSETVSITYGTGSMTGILGYDTVQVGGISDTNQIFGLSETEPGSFLYAPFD

GILGLAYPSISSGATPVFDNIWNQGLVSQDLFSVYLSADDKSGSVIFGGIDSSYYTGS  
LNWVPVTEGYWQITVDSITMNETIACAEGCQAIVDGTGTSLLTGPTSPIANIQSDIGAS  
ENSDGDMVVSCTAISSLPDIVFTINGVQYPVPPSAYILQSEGSCISGFQGMNVPTESGEL  
WILGDVFIHQYFTVFDNRANNQVGLAPVA

>sp|000623|PEX12\_HUMAN Peroxisome assembly protein 12 OS=Homo sapiens GN=PEX12 PE=1 SV=1

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EIFTLDDLQHYLSRTSASFSENFYGLKRIVMGDTHKSQRLASAGLPKQQLWKSIMFL  
VLLPYLKVLEKLVSSLREEDEYSIHPPSSRWKRFYRAFLAAYPFVNMAWEGWFLVQQLR  
YILGKAQHHSPLRLLAGVQLGRLTVQDIQALEHKPAKASMMQQPARSVSEKINSALKKAV  
GGVALSLSTGLSVGVFLQFLDWWYSENQETIKSLTALPTPPPVHLDYNSDSPLPKM  
KTVCPCLCRKTRVNDTVLATSGYVFCYRCVFHYVRSHQACPITGYPTVQHLIKLYSPEN

>sp|P28328|PEX2\_HUMAN Peroxisome biogenesis factor 2 OS=Homo sapiens GN=PEX2 PE=1 SV=2

MASRKENAKSANRVLRLISQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKACL  
WVFLWRFTIYSKNATVGQSVLNKYNDFSPNRYQPPSKNQKIWAYVCTIGRWLEERC  
YDLFRNHHLASFQKVKQCVNFVIGLLKLGGLINFLIFLQRGKFATLTERLLGIHVSFCKP  
QNICEVGFYMNRELLWHGFAEFLIFLLPLINVQKLKAKLSSWCIPLTGAPNSDNTLATS  
GKECALCGEWPTMPHTIGCEHIFCYFCAKSSFLFDVYFTCPKCGTEVHSLQPLKSGIEMS  
EVNAL

>sp|P50542|PEX5\_HUMAN Peroxisomal targeting signal 1 receptor OS=Homo sapiens GN=PEX5  
PE=1 SV=3

MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGWPPGAPASEAASKPLGVASED  
ELVAEFLQDQNAPLVSRAPQTFKMDDLAEQQIEQSNFRQAPQRAPGVADLALSENWAQ  
EFLAAGDAVDVTQDYNEDWSQEFISEVTDPLSVSPARWAEYLEQSEEKLWLGEPEGTA  
TDRWYDEYHPEEDLQHTASDFVAKVDDPKLANSEFLKFVRQIGEGQVSLESAGSGRAQA  
EQWAAEFIQQGTSDAWVDQFTRPVNTSALDMEFERAKSAIESDVDFWDLQAELEEMAK  
RDAEAHPWLSYDDLT SATYDKGYQFEEENPLRDHPQPFEEGLRRLQEGDLPNAVLLFEA  
AVQQDPKHMEAWQYLGTQAENEQELLAISALRRCLELKPNDQTALMALAVSFTNESLQR  
QACETLRDWLRYTPAYAHLVTPAEEGAGGAGLGPSKRILGSLSDSLFLEVKEFLAAVR  
LDPTSIDPDVQCGLVLFNLSGEYDKAVDCFTAALSVRPNDYLLWNKLGATLANGNQSEE  
AVAAYRRALQLPGYIRSRYNLIGSCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMS  
ENIWSLRLALSMGLQSDAYGAADARDLSTLLTMFGLPQ

>sp|Q01813|PFKAP\_HUMAN ATP-dependent 6-phosphofructokinase, platelet type OS=Homo sapiens  
GN=PFKP PE=1 SV=2

MDADDSRAPKGSRLRKFLEHLSGAGKAIGVLTSGGDAQGMNAAVRAVVRMGIIYVGAKVYFI  
YEGYQGMVDGGSNIAEADWESVSSILQVGGTIIGSARCQAFRTREGRLKAACNLLQRGIT  
NLCVIGDGSLTGANLFRKEWGLLEELARNGQIDKEAVQKYAYLNVGMVGSIDNDFCG  
TDMTIGTDSALHRIIEVVDAIMTTAQSHQRTFVLEVMGRHCGYLALVSALACGADWVFLP  
ESPPEEGWEEQMCVKLSENRRKKRLNIIIEAEGAIDTQNKPIITSEKIKELVVTQLGYDT  
RVTIILGHVQRRGTPSAFDRILASRMGVEAVIALLEATPDTPACVVS LNGNHAVRLPLMEC  
VQMTQDVQKAMDERRFQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTN CNVAVINVGA  
PAAGMNAAVRSVRVGIADGHRMLAIYDGFDFAGGQIKEIGWTDVGGWTGQGGSI LGTK  
RVLP GKYLEEIIATQMRTHSINALIIGGFEAYLGLELSAAREKHEEFCVPMVMVPATVS  
NNVPGSDFSIGADTALNTITDTCDRIKQSASGTRRRVFI IETMGGYCYLANMGGLAAGA  
DAAYIFEFPDIRDLQSNVEHLTEKMKTTIQRGLVLRNESCSENYTTDFIYQLYSEEKGK

VFDCRKNVLGHMQGGAPSPFDRNFGTKISARAMEWITAKLKEARGRGKKFTTDDSI  
CVLGISKRNVIQPVAVELKKQTDFEHRIPKEQWWLKLRLPLMKILAKYKASYDVSDSGQLEHVQ  
PWSV

>sp|Q9UHJ9|PGAP2\_HUMAN Post-GPI attachment to proteins factor 2 OS=Homo sapiens GN=PGAP2  
PE=1 SV=2

MYQVPLPLDRDGLVRLRFTMVALVTCCPLVAFILWSLLFHFKEETTATHCGVPNYL  
PSVSSAIGGEVPPQRYVWRFCIGLHSAPRFLVAFAYWNHYLSCTSPCSCYRPLCRLNFG  
LVVENLALLVLTYVSSSEDFTHENAFIVFIASSLGHMLLTCLWRLTKKHTVSQEDRKS  
YSWKQRLFIINFISFVSALAVYFRHNMYCEAGVYTIFAILEYTVVLTNMAFHMTAWWDFG  
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>sp|Q96FM1|PGAP3\_HUMAN Post-GPI attachment to proteins factor 3 OS=Homo sapiens GN=PGAP3  
PE=1 SV=2

MAGLAARLVLLAGAAALASGSQGDREPVYRDCVLQCEEQNCSSGGALNHFRSRQPIYMSLA  
GWTCDRDDCKYECMWTVGLYLQEGHKVPQFHGKWPFSRFLFFQEPASAVASFLNGLASLV  
MLCRYRTFVPASSPMYHTCVAFVWVSLNAFWSTVFTHTDRLTEKMDYFCASTVILHSI  
YLCCVVRTVGLQHPAVVSAFRALLLMLTVHVSYSLSIRFDYGYNLVANVAIGLVNVVWWL  
AWCLWNQRRPLPHVRKCVVVVLLQLGLSLELLDFPPLFWVLDAAHAIWHISTIPVHVLFFS  
FLEDDSLYLLKESEDKFKLD

>sp|Q6P3X8|PGBD2\_HUMAN PiggyBac transposable element-derived protein 2 OS=Homo sapiens  
GN=PGBD2 PE=2 SV=1

MASTSRDVIAGRGIHSHKVSAKLLEVLNAMEEEEESSNNNREEIFIAPPDAAAGEFTDEDSG  
DEDSQRGAHLPGSVLHASVLCEDSGTGEDNDDLELQPAKKRQKAVVKPQRIWTKRDIRPD  
FGSWTASDPHIEDLSQELSPVGLFELFFDEGTINFIVNETNRYAWQKNVNLSLTAQELK  
CVLGILILISGYISYPRRRMFWETSPDSHHHLVADAIRDRFELIFSYLHFADNNELDASD  
RFAKVRPLIIRMNCFQKHAPLEEFYSFGESMCEYFGHRGSKQLHRGKPVRLGYKIWCGT  
TSRGYLVWFEPSSQGLTFKPDRLDLGSMVIFKVDALQERGFLPYHIFDKVFTSVKLM  
SILRKKGVKATGTVREYRTERCPLKDPKELKKMKRGSFDYKVDESEEIIVCRWHDSSVVN  
ICSNAVGIPEVRLTSRHSGAAKTRTQVHQPSLVKLYQEKVGGVGRMDQNTAKYKVKIRGM  
KWYSSFIGYVIDAALNNAWQLHRICQDAQVDLLAFRRYIACVYLESNADTTSQGRRSRR  
LETESRFDMIGHWIIHQDKRTRCALCHSQTNTRCEKCKQGVHAKCFREYHIR

>sp|Q9NWQ8|PHAG1\_HUMAN Phosphoprotein associated with glycosphingolipid-enriched  
microdomains 1 OS=Homo sapiens GN=PAG1 PE=1 SV=2

MGPAGSLLGSGQMQITLWGLAAVAIFFVITFLIFLCSSCDREKKPRQHSQDHENLMNVP  
SDKEMFSRSVTSLATDAPASSEQNGALTNGDILSEDSTLCMHYEEVQTSASDLLDSQD  
STGKPKCHQSRELPRIPPEAVDTMLTARSVDGDQGLGMEGPYEVLDSSSQENMVEDCL  
YETVKEIKEVAAAAHLEKGHSGKAKSTASASKELPGPQTEGKAFAEYASVDRNKKCRQSV  
NVESILGNSCDPEEEAPPPVPVKLLDENENLQEKEGGEAEESATDTTSETNKRFSLSYK  
SREEDPTLTETEEISAMYSSVKNPGQLVNKSGQSLTVPESTYTSIQGDPQRSPSSCNDLYA  
TVKDFEKTNPSTLPPAGRPSEEPDYEAIIQTLNREEEKATLGTNGHHGLVPKENDYESI  
SDLQQGRDITRL

>sp|P78562|PHEX\_HUMAN Phosphate-regulating neutral endopeptidase OS=Homo sapiens GN=PHEX  
PE=1 SV=1

MEAETGSSVETGKKANRGTRIALVVFVGGTLVLGTILFLVSQGLLSLQAKQEYCLKPECI  
EAAAAILSKVNLSVDPCDNFFRFACDGWISNNPIPEDMPSYGVYPWLRHNVDLKLELLE



KSISRRRDTEAIQKAKILYSSCMNEKAIEKADAKPLLHILRHSPFRWPVLESNIGPEGVW  
SERKFSLLQTLATFRGQYSNSVFIRLYVSPDDKASNEHILKLDQATLSLAVREDYLDNST  
EAKSYRDALYKFMVDTAVLLGANSRAEHDMKSVLRLEIKIAEIMIPHENRTSEAMYNKM  
NISELSAMIPQFDWLGYIKKVIDTRLYPHLKDISPSENVVRVPQYFKDLFRILGSEKK  
TIANYLVWRMVYSRIPNLSRRFQYRWLEFSRVIQGTTLTPQWDKCVNFIESALPYVVGK  
MFVDVYFQEDKKEMMEELVEGVRWAFIDMLEKENEWMDAGTKRKAKEKARAVLAKVGYPE  
FIMNDTHVNEDLKAIFSEADYFGNVLQTRKYLAQSDFFWLKAVPKTEWFTNPTTVNAF  
YSASTNQIRFPAGELQKPFHWGTEYPRSLSYGAIGVIVGHEFTHGFDNNGRKYDKNGNLD  
PWWSTESEEKFKKTKCMINQYSNYWKKAGLNVKGKRTLGENIADNGGLREAFRAYRKW  
INDRRQGLEEPLPGITFTNNQLFFLSYAHVRCNSYRPEAAREQVQIGAHSPQFRVNGA  
ISNFEEFQKAFNCPNSTMNRGMDSCRLW

>sp|Q9UIL8|PHF11\_HUMAN PHD finger protein 11 OS=Homo sapiens GN=PHF11 PE=1 SV=3

MAQASPPRPERVLGASSPEARPAQEALLPTGVFQVAEKMEKRTCALCPKDVEYNVLYFA  
QSENIAAHENCLLYSSGLVECEDQDPLNPDRSFDVESVKKEIQRGRKLCKFCHKRGATV  
GCDLKNCKNYHFFCAKKDDAVPQSDGVRGIYKLLCQQAQFPIIAQSAKFSGVKRRKGR  
KKPLSGNHVQPPETMKCNTFIRQVKEEHGRHTDATVKVPFLKKCKEAGLLNYLLEEILDK  
VHSIPEKLMDETTESDYEEIGSALFDCRLFEDTFVNFQAAIEKKIHASQQRWQQLKEEI  
ELLQDLKQTLCSFQENRDLMSSTSISSLSY

>sp|Q86YI8|PHF13\_HUMAN PHD finger protein 13 OS=Homo sapiens GN=PHF13 PE=1 SV=2

MDSDSCAAAFHPEEYSPSCRRRTVEDFNKFCFVFLAYAGYIPYPKEELPLRSSPSPANS  
TAGTIDSDGWDAGFSDIASSVPLPVSDRCFSLQPTLLQRAKPSNFLDRKKTDLKKKK  
KRRRRSDAPGKEGYRGGLLKLEAADPYVETPTSPTLQDIPQAPSDPCSGWSDTPSSGS  
CATVSPDQVKEIKTEGKRTIVRQKGQVVRDEDSTGNDEDIMVSDDDSDWDLVTCFCMKP  
FAGRPMIECNECHTWIHLSCAKIRKSNVPEVFVCQKCRDSKFDIRRSNRSRTGSRKLFLD

>sp|Q96FC7|PHIPL\_HUMAN Phytanoyl-CoA hydroxylase-interacting protein-like OS=Homo sapiens  
GN=PHYHIPL PE=1 SV=3

MEVPRLDHALNSPTSPCEEVIKNLSLEAIQLCDRDGNKSQDSGIAEMEELPVPHNIKISN  
ITCDSFKISWEMDSKSKDRITHYFIDLNKKENKNSNKFHKHVDVPTKLVAKAVPLPMTVRG  
HWFLSPRTEYTVAVQTASKQVDGYVVSSEWSEIIIEFCTADYSKVHLTQLLEKAEVIAGRM  
LKFSVFYRNQHKYFDYVREHHGNAMQPSVKDNSGSHGSPISGKLEGIFFSCSTEFNTGK  
PPQDSPYGRYFEIAAEKLFNPNTNLYFGDFYCMYTAYHYVILVIAPVGSFGDEFCKQRL  
PQLNSKDNKFLTCTEEDGVLVYHHAQDVILEVIYTDVPDLSVGTVAEITGHQLMSLSTAN  
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>sp|Q8WWQ0|PHIP\_HUMAN PH-interacting protein OS=Homo sapiens GN=PHIP PE=1 SV=2

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QNLVKYYRHLAPDHLLQICHLGPLEQEIPQSVPGVQTLLGAGRQSLRLTNKSKHVWV  
KGSALAALHCGRPPEPVNYGSPPSIADTLFSRKLNGKYRLERLVPTAVYQHMKMHKRIL  
GHLSSVYCVTFDRTGRRIFTGSDCLVKIATDDGRLLATLRGHAAEISDMAVNYENTMI  
AAGSCDKMIRVWCLRTCAPLAVLQGHASITSLQFSPLCSGSKRYLSSTGADGTICFWLW  
DAGTLKINPRPAKFTERPRPGVQMICSSFSAGGMFLATGSTDHIIRVYFFGSGQPEKISE  
LEFHTDKVDSIQFSNTSNRFVSGSRDGTARIWQFKRREWSILLDMATRPAGQNLQGIED  
KITMKVMTMAWRDHNTVITAVNNMTLKVWNSYTGQLIHVLMGHEDEVFVLEPHFPDPR  
VLFSAGHDGNVIVWDLARGVKIRSYFNMIEGQGHGAVFDCKCSPDGQHFACDTSHGHLII  
FGFGSSSKYDKIADQMFFHSDYRPLIRDANNFVLDEQTQQAPHLMPPPFLVDVGNPHPS

RYQRLVPGRENCREEQLIPQMGVTSSGLNQVLSQQANQEISPLDSMIQRLQQEQDLRRSG  
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RRVVVPELSAGVASRQEEWRTAKGEEEIKTYRSEEKRLHTVPKENKIPTVSKNHAHEHF  
LDLGESKKQQTNQHNRYRTRSALEETPRPSEEIENGSSSSDEGEVVAVSGGTSEEEERAWH  
SDGSSSDYSSDYSDWTADAGINLQPPKKVPKNKTKKAESSSDEEESEKQKQKQIKKEKK  
KVNEEKDGPISPKKKKPKERKQKRLAVGELTENGLTLEEWLPSTWITDTIPRRCPFVPQM  
GDEVYYFRQGHEAYVEMARKNKIYSINPKKQPWHKMELREQELMKIVGIKYEVGLPTLCC  
LKLAFLD PDTGKLTGGSFMTKYHMDPDVIDFLVLRQQFDDAKYRRWNIGDRFRSVIDDAW  
WFGTIESQEPLQLEYPD SLFQCYNVCWDNGDTEKMSPWDMELIPNNAVFPEELGTSVPLT  
DGECSLIYKPLDGEWGTNPRDEECERIVAGINQLMTLDIASAFVAPVDLQAYPMYCTVV  
AYPTDLSTIKQRLNRFYRRVSSLMWEVRYIEHNTRTFNEPGSPIVKS AKFVTDLLHFI  
KDQTCYNI IPLYNSMKKKVLSDESEEDKDADVPGTSTRKRKDHQPRRLRNRAQSYDIQA  
WKKQCEELLNLIFQCEDSEPFRRQPVLDLEYPDYRDIIDTPMDFATVRETLEAGNYESPME  
LCKDVRLIFSNSKAYTPSKRSRIYSMSLRLSAFFEEHISVLSDYKSALRFHKRNTITKR  
RKKRNRSSSVSSSAASSPERKKRILKPQLKSESSTSAFSTPTRSIPPRHNAQINGKTES  
SSVVRTRS NRVVDPV VTEQPSTSSAAKTFITKANASAI PGKTI LENS VKH SKALNTLSS  
PGQSSF SHGTRNNSAKENMEKEKPVKRKMKSSVLPKASTLSKSSAVIEQGDCKNNALVPG  
TIQVNGHGGQPSKLVKRGPGRKPKVEVNTNSGEIIHKKRGRKPKKLQYAKPEDLEQNNVH  
PIRDEVLPSSTCNFLSETNNVKEDLLQKKNRGGRKPKRKMKTQKLDADLLVPASVKVLR  
SNRKKIDDPIDEEEEFEELKGSEPHMRTRNQGRRTAFYNEDDSEEEQRQLLFEDTSLTFG  
TSSRGRVRKLTEKAKANLIGW

>sp|P15735|PHKG2\_HUMAN Phosphorylase b kinase gamma catalytic chain, liver/testis isoform  
OS=Homo sapiens GN=PHKG2 PE=1 SV=1

MTLDVGPEDELPDWAAAKEFYQKYDPKDVIGRGVSSVVRRCVHRATGHEFAVKIMEVTAE  
RLSPEQLEEVRATRRETHILRQVAGHPHIITLIDSYESSFMFLVFDLMRKGELFDYLT  
EKVALSEKETRSIMRSLLEAVSFLHANNIVHRDLKPENILLDDNMQIRLSDFGFSCHLEP  
GEKLREL CGTPGYLAPEILKCSMDETHPGYGKEVDLWACGVILFTLLAGSPPFWHRRQIL  
MLRMIMEGQYQFSSPEWDDRSSTVKDLISRLQVDPEARLTAEQALQHPFFERCEGSQPW  
NLTPRQRFRVAVWTVLAAGRVALSTHRVRPLTKNALLRDPYALRSVRHLIDNCAFRLYGH  
WVKKGEEQNRAALFQHRPPGPFPI MGPEEEGDSAAITDEAVLVLG

>sp|Q9Y3A3|PHOCN\_HUMAN MOB-like protein phocein OS=Homo sapiens GN=MOB4 PE=1 SV=1

MVMAEGTAVLRRNRPGTKAQDFYNWPDESFDMDSTLAVQQYIQQNIRADCSNIDKILEP  
PEGQDEGVWKYEHLRQFCLELNGLAVKLQSECHPDTCTQMTATEQWIFLCAAHKTPKECP  
AIDYTRHTLDGAACLLNSNKYFPSPRSVIKESSVAKLGSVCRRIRYIFSHAYFHHRQIFDE  
YENETFLCHRFTKFMKYNLMSKDNLIVPILEEEVQNSVSGESEA

>sp|Q9P1Y6|PHRF1\_HUMAN PHD and RING finger domain-containing protein 1 OS=Homo sapiens  
GN=PHRF1 PE=1 SV=3

MDDDSLDELVARSPGPDGHPQVGPADPAGDFEESSVGSSGDSGDDSDSEHGDGTDGEDEG  
ASEEEDLEDRSGSEDEDDGETLLEVAGTQGKLEAAGSFNSDDDAESCPICLNAFRDQAV  
GTPENCAHYFCLDCIVEWSKNANSCPVDRTLFKCICIRAQFGGKILRKIPVENTKASEEE  
EDPTFCEVCGRSRDREDRLLLCDGCDAGYHMECLDPPLQEVVPVDEWFCPECAAPGVVLAAD  
AGPVSEEEVSLLLADVPTTSRLRPRAGRTRAIARTRQSERVRATVNRNRISTARRVQHT  
PGRLGSSLLDEAIEAVATGLSTAVYQRPLTPRTPARRKRKTRRRKKVPGRKKTPSGPSAK  
SKSSATRSKKRQHRVKRRGKKVKSEATTRSRIARTLGLRRPVHSSCIPSVLKPVEPSLG

LLRADIGAASLSLFGDPYELDPFDSSEELSANPLSPLSAKRRALSRALQSHQPVARPVS  
VGLSRRRLPAAVPEPDLEEEVPDILLGSILSGQSLMLGSSDVI IHRDGSLSAKRAAPVS  
FQRNSGSLSRGEEGFKGCLQPRALPSGSPAQGPSGNRPQSTGLSCQGRSRTPARTAGAPV  
RLDLPAPGAVQARNLSNGSVPGFRQSHSPWFNGTNKHTLPLASAASKISSRDSKPPCRS  
VVPGPPLKPAPRRTDISELPRIKIRDDGGGRRDAAPAHGQSIEIPSACISRLTGREGT  
GQPGRGTRAESEASSRVPREPGVHTGSSRPPAPSSHGSLAPLGPSRGKGVGSTFESFRIN  
IPGNMAHSSQLSSPGFCNTFRPVDDKEQRKENPSPLFSIKKTKQLRSEVYDPSDPTGSDS  
SAPGSSPERSGPGLLPSEITRTISINSPKAQTVQAVRCVTSYTVESIFGTEPEPPLGPSS  
AMSKLRGAVAAEGASDTEREETESQGLAARLRPSPEPWDEEDGASCSTFFGSEERTV  
TCVTVVEPEAPSPDVLQAATHRVVELRPPSRSRSTSSSRSRKKAKRKRVSREHGRTRSG  
TRSESRDRSSRSASPSVGEERPRRQSKAKSRRSSDRSSSRERAKRKKAKDKSREHRRG  
PWGHSRRTSRSRSGSPGSSSYEHYESRKKKKRRSASRPRGRECSPTSSLERLCRHKHQRE  
RSHERPDRKESVAWPRDRRKRSSRSPSEHRAREHRRPRSREKWPQTRSHSPERKGAVRE  
ASPAPLAQGEPEGREDLPTRLPALGEAHVSPEVATADKAPLQAPPVLEVAACEPDLDLD  
YGDSVEAGHVFDFFSSDAVFIQLDDMSSPPSPESTDSSPERDFPLKPPALPPASLAVAAIQ  
REVSLMHDEDPSQPPPLPEGTQEPHLLRPDAAEKAEPSSPDVAPAGKEDSPSASGRVQE  
AARPEEVVSQTPLLSRALVKRVTWNLQESSESAEDRAPRAPLHRPQKPREGAWDMED  
VAPTGVRQVFSELPPFSHVLPPEGFPDTPSQVYSPGLPPAPAQPSIPPCALVSQPTVQ  
FILQGSPLLVGCGAAQTLAPVPAALTPASEPASQATAASNSEEKTPAPRLAAEKTKEEY  
MKKLHMQERAVEEVKLAIKPFYQKREVTKEEYKDILRKAVQKICHKSKEINPVKANLV  
KAYVDKYRHMRRHKPEAGEEPPTQGAEG

>sp|Q9H0N5|PHS2\_HUMAN Pterin-4-alpha-carbinolamine dehydratase 2 OS=Homo sapiens GN=PCBD2  
PE=1 SV=4

MAAVLGALGATRLLAALRGQSLGLAAMSSGTHRLTAEERNQAILDLKAAGWSELSEDA  
IYKEFSFHNFNQAQFGMSRVALQAEKMNHHPEWFNVYNKVQITLTSHDCGELTKKDKVLA  
KFIEKAAASV

>sp|Q99453|PHX2B\_HUMAN Paired mesoderm homeobox protein 2B OS=Homo sapiens GN=PHOX2B PE=1  
SV=2

MYKMEYSYLNSSAYESCMAGMDTSSLASAYADFSSCSQASGFQYNPIRTTFGATSGCPSL  
TPGSCSLGTLRDHQSSPYAAVPYKLFTHGGLNEKRRQRRIRTTFTSAQLKELERVFAET  
HYPDIYTREELALKIDLTEARVQVWFQNRRAKFRKQERAAAAAAAAAKNGSSGKKSDDR  
DDESKEAKSTDPDSTGGPGPNPNTPSGANGGGGGGSPAGAPGAAGPGGPGGEPGKGG  
AAAAAAAAAAAAAAAAAGGLAAAGGPGQGWAPGPGPITSIPDSLGGPFASVLSLQR  
PNGAKAALVKSSMF

>sp|Q92968|PEX13\_HUMAN Peroxisomal membrane protein PEX13 OS=Homo sapiens GN=PEX13 PE=1  
SV=2

MASQPPPPPKPWETRRIPGAGPGPGPPTFQSADLGPTLMTRPGQPALTRVPPPIPRPS  
QQTGSSSVNTFRPAYSSFSSGYGAYGNSFYGGYSPYSYGYNGLGYNRLRVDDLPPSRFVQ  
QAESSRGAFQSIIESIVHAFASVMMMDATFSVYNSFRAVLDVANHFSRLKIHF TKVFS  
AFALVRTIRYLRYRLQRLGLRRGSENEDLWAESEGTVACLGAEDRAATSAKSWPIFLFF  
AVILGGPYLIWKLLSTHSDEVTD SINWASGEDDHVVARAEYDFAAVSEEEISFRAGDMLN  
LALKEQQPKVRGWLASLDGQTTGLIPANYVKILGKRKGRKTVESSKVSQQQSFTNPTL  
TKGATVADSLDEQEAASFESVFVETNKVPVAPDSIGKDGEKQDL

>sp|O43933|PEX1\_HUMAN Peroxisome biogenesis factor 1 OS=Homo sapiens GN=PEX1 PE=1 SV=1

MWGS DRLAGAGGGGA AVTVAF TNARD CFLHLP RRLVAQLHLLQ NQAIEVVWS HQPAFLSW  
VEGRHFS DQGENVAE INRQVG QKLGLSNGGQVFLKPCSHV VSCQQVEVEPLSADDWEILE  
LHAVSLEQHLLDQIRIVFPKAI FVPVWDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK  
TRRAKENTFSKADA EYKKLHSYGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSS  
SVASLWTMIGS IFSFQSEKKQETSWGLTEINAFKNMQSKV VPLDNIFRVCKSQPPSIYNA  
SATSVFHKHCAIHVFPWDQEYFDVEPSFTV TYGKLVKLLSPKQQQSKTKQNVLSPEKEKQ  
MSEPLDQKKIRSDHNEEDEKACVLQVVWNGLEELNNAIKYTKNVEVLHLGKVWIPDDL RK  
RLNIEMHAVVRITPVEVTPKIPRSLKLQPRENL PKDISEEDIKTVFY SWLQQSTTTMLPL  
VISEEEFIKLETKDGLKEFSLSIVHSWEKEKDKNIFLLSPNLLQKTTIQVLLDPMVKEEN  
SEEIDFILPFLKLSSLGGVNSLGVSSLEHITHSLLGRPLSRQLMSLVAGLRNGALLLTGG  
KGSGLSTLAKAICKEAFDKLDAHVERVDCKALRGKRLENIQKTLEVAFSEAVWMQPSVVL  
LDDLDIAGLPAVPEHEHSPDAVQSQR LAHALNDMIKEFISMGSLVALIATSQSQQSLHP  
LLVSAQGVHIFQCVQHIQPPNQEQRCEILCNVIKNKLD CDINKFTDLDLQHVAKETGGFV  
ARDFTVLVDRAIHSRLSRQSI STREKLVLTTLDFQKALRGFLPASLRSVNLHKPRDLGWD  
KIGGLHEVRQILMDTIQLPAKYPELFANLP IRQRTGILLYGPPGTGKTLLAGVIAESRM  
NFISVKGPELLSKYIGASEQAVRDIFIRAQAAKPCILFFDEFESIAPRRGHDNTGVTDRV  
VNQLLTQLDGV EGLGVYVLAATSRPDLIDPALLRPGR LDKCVYCPPDQVSRLEILNVL  
SDSLPLADDVDLQHVASVTD SFTGADLKALLYNAQLEALHGMLLSSGLQDGSSSSSDSLS  
LSSMVFLNHSSGSDSAGDGECGLDQSLVSLEMSEILPDESKFNMRYLYFGSSYESELGN  
GTSSDLSSQCLSAPSSMTQDLPGVPGKDQLFSQPPVLR TASQEGCQELTQEQRDQLRADI  
SIIKGRYRSQSGEDES MNQPGPIKTRLAISQSHLMTALGHTRPSISEDDWKNFAELYESF  
QNPKRKRNQSGTMFRPGQKVTLA

>sp|Q96BD5|PF21A\_HUMAN PHD finger protein 21A OS=Homo sapiens GN=PHF21A PE=1 SV=1

MELQTLQEALKVEIQVHQKLVAQMKQDPQNADLKKQLHELQAKITALSEKQKRVEQLRK  
NLIVKQEQPDKFQIQPLPQSENKLQTAQQQPLQQLQQQQQYHHHHAQQSAAASPNTASQ  
KTVTTASMITTKTLPLVLKAATATMPASVVGQRPTIAMVTAINSQA VNSTDVQNTPVNL  
QTSSKVTGPGAEAVQIVAKNTVTLVQATPPQPIKVPQFIPPPRLTPRPNFLPQVRPKPVA  
QNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTLPTSQNSIHPVRV VNGQTATIAKTFPM  
AQLTSIVIATPGTRLAGPQTVQLSKPSLEKQTVKSHTETDEKQTESRTITPPAAPKPKRE  
ENPQKLAFMVSLGLVTHDHL EEIQSKRQERKRRTTANPVYSGAVFEPERKKS AVTYLNST  
MHPGTRKRGRPPKYNAVLGFGALTPTSPQSSHPD SPENEXTETTFTFPAPVQPVSLPSPT  
STDGDIHEDFCSVCRKSGQLL MCDTCSR VYHLDCLDPPLKTI PKGMWICPRCQDQMLKKE  
EAIPWPGTLAIVHSYIAYKAAKEEEKQLLKWSSDLKQEREQLEQKVQLSNSISKMEM  
KNTILARQKEMHSSLEKVQLIRLIHGIDLSKPV DSEATVG AISNGPDCTPPANAATSTP  
APSPSSQSCTANCNQGEETK

>sp|P43088|PF2R\_HUMAN Prostaglandin F2-alpha receptor OS=Homo sapiens GN=PTGFR PE=1 SV=1

MSMNNSKQLVSPAAALLSNTTCQTENRLSVFFSVIFMTVGILSNSLAIAILMKAYQRFRQ  
KSKASFLLLASGLVITDFFGHLINGAIAVFVYASDKEWIRFDQSNVLC SIFGICMVFSGL  
CPLLGSVMAIERCIGVTKPIFHSTKITSKHVKMMLSGVCLFAVFIALLPILGHRDYKIQ  
ASRTWCFYNTEDIKD WEDRFYLLLSF LGLLALGVSLLCNAITGITLLRVKFKSQQHRQG  
RSHHLEMIQLLAIMCVSCICWSPFLVTMANIGINGNHSLET CETTLFALRMATWNQILD  
PWVYILLRKAVLNLYKLASQCCGVHVISLHIWELSSIKNSLKVA AISESPVAEKSAST

>sp|O60925|PFD1\_HUMAN Prefoldin subunit 1 OS=Homo sapiens GN=PFDN1 PE=1 SV=2

MAAPVDLELKKAFTELQAKVIDTQQKVKLADIQIEQLNR TKKHAHLTDTEIMTLVDET NM

YEGVGRMFILQSKEAHSQLEKQKIAEEKIKELEQKKSYLERSVKEAEDNIREMLMARR  
AQ

>sp|Q8N0Y7|PGAM4\_HUMAN Probable phosphoglycerate mutase 4 OS=Homo sapiens GN=PGAM4 PE=3  
SV=1

MAAYKLVLI RHGESTWNLENRFSCWYDADLSPAGHEEAKRGGQALRDAGYEFDICLTSVQ  
KRVIRTLWTVLDAIDQMWL PVVRTWRLNERHYGGLTGLNKAETA AKHGAEQVKI WRRSYD  
VPPPPMEPDHPFYSNISKDRRYADLTEDQLPSYESPKDTIARALPFWNEEIVPQIKEGKR  
VLIAAHGNSLQGI AKHVEGLSEEAIMELNLPTGIPVYELDKNLKPIKPMQFLGDEETVC  
KAIEAVAAQ GKAKK

>sp|Q75T13|PGAP1\_HUMAN GPI inositol-deacylase OS=Homo sapiens GN=PGAP1 PE=1 SV=1

MFLHSVNLWNLA FYVMVFLATLGLWDVFFGFEEKCSMSYMEYPEYQKIELPKKLAKR  
YPAYELYLYGEGSYAEH KILPLTGIPVFLPGNAGSYKQVRSIGSIALRKAEDIDFKYH  
FDFFSVNFNEELVALYGGSLQKQTKFVHECIKTILKLYKGQEFAPKSVAIIGHSMGGLVA  
RALLTLKNFKHDLINLLITQATPHVAPVMPLDRFITDFYTTVN NYWILNARHINLTLSV  
AGGFRDYQVRSLTFLPKLSHHTSALSVSSAVPKTWVSTDHLSIVWCKQLQLTTVRAFF  
DLIDADTKQITQNSKKKLSVLYHHFIRHPSKHFEENPAIISDLTGTSMWVLVKVSKWTYV  
AYNESEKIYFTFPLENHRKIYTHVYCQSTMLD TNSWIFACINSTSMCLQGVDLSWKAELL  
PTIKYLT LRLQDYP SLSHLVVYVPSVRGSKFVVDCEFFKKEKRYIQLPVTHLFSFGLSSR  
KVVLTNGLYNNLELLNFGQIYQAFKINVVSKCSAVKEEITSIYRLHIPWSYEDSLTIAQ  
APSSTEISLKLHIAQ PENNTHVALFKMYTSSDCRYEVT VKTSFSQILGQVVRFHGGALPA  
YVVSNI LLAYRGQLYSLFSTGCCLEYATMLDKEAKPYKVPFVII IKFLLGYKWFKELWD  
VLLLPELDAVILTCQSMCFPLISLILFLFGTCTAYWSGLSSASVRLSSLWLALKRPSE  
LPKDIKMISPDL PFLTIVLIIVSWTTGALAILLSYLYVFKVVHLQASLTTFKNSQPVN  
PKHSRRSEKKSNNHHKDSSIHLRLSANDAEDSLRMHSTVINLLTWIVLLSMPSLIYWLKN  
LRYYFKLNPDPCPLAFILIPTMAILGNTYTVSIKSSKLLKTTSQFPLPLAVGVIAFGSA  
HLYRLPCFVFIPLLLHALCNFM

>sp|Q96DM1|PGBD4\_HUMAN PiggyBac transposable element-derived protein 4 OS=Homo sapiens  
GN=PGBD4 PE=2 SV=3

MSNPRKRSIPMRDNTGLEQLLAEDSFDESDFSEIDDSDNFSDSALEADKIRPLSHLESD  
GKSSTSSDSGRSMKWSARAMIPRQRYDFTGTGPRKVDVSDITDPLQYFELFFTEELVSKI  
TRETNAQAALLASKPPGPKGFSRMDKWKD TDNDELKVFFAVMLLQGIVQKPELEMFWSTR  
PLLDTPYLRQIMTGERFLLLFRCLHFVNSSISAGQSKAQISLQKIKPVDFLVNKFSTV  
YTPNRNIAVDESLMLFKGPLAMKQYLP TKRVRFGLKLYVLCESSQSGYVWNALVHTGPGMN  
LKDSADGLKSSRIVLT LVNDLLGGYCVFLDNFNISPMLFRELHQNR TDAVG TARLNRKQ  
IPNDLKKRIAKGTTVARFCGELMALKWCDGKEVTMLSTFHNDTVIEVNNRNGKKT KRPRV  
IVDYNENMGAVDSADQMLTSYPSEKRHKVWYKKFFHLLHITVLNSYILFKKDNPEHTM  
SHINFR LALIERMLEKHHKPGQQLRGRPCDDVTPLRLSGRHFPKSI PATSGKQNPTGR  
CKICCSQYDKDGKKIRKETRYFCAECDVPLCVVPCFEIYHTKKNY

>sp|Q9H7Z7|PGES2\_HUMAN Prostaglandin E synthase 2 OS=Homo sapiens GN=PTGES2 PE=1 SV=1

MDPAARVVRALWPGGCALAWRLGGRPQPLLPTQSRAGFAGAAGGSPVAAARKGSPRLLG  
AAALALGGALGLYHTARWHLRAQDLHAERSAAQLSLSSRLQLTLYQYKTCPFCSKVRAFL  
DFHALPYQVVEVNPVRAEIKFSSYRKVPILVAQEGESSQQLNDSSV IISALKTYLVSGQ  
PLEEIIITYYPAMKAVNEQGKEVTEFGNKYWLMLNEKEAQVYGGKEARTEEMKWRQWADD  
WLVHLISP NVYRTPTEALASFDYIVREGKFGAVEGAVAKYMGAAAMY LISKRLKSRHRLQ

DNVREDLYEAADKWVAAVGKDRPFMGGQKPNLADLAVYGVLRVMEGLDAFDDLMQHTHIQ  
PWYLRVERAITEASPAH

>sp|Q15198|PGFRL\_HUMAN Platelet-derived growth factor receptor-like protein OS=Homo sapiens GN=PDGFRL PE=1 SV=1

MKVWLLGLLLVHEALEDVTGQHLPKNRPKEPGENRIKPTNKKVKPKIPKMKDRDSANS  
APKTQSIMMQVLDKGRFQKPAATLSLLAGQTVELRCKGSRIGWSYPAYLDTFKDSRLSVK  
QNERYGQLTLVNSTADTGEFSCWVQLCSGYICRKDEAKTGSTYIFFTEKGELFVPSPSY  
FDVVYLNPDRAVPCRVTVLSAKVTLHREFPAKEIPANGTDIVYDMKRGFVYLQPHSEH  
QGVVYCRAEAGGRSQISVKYQLLYVAVPSGPPSTTILASSNKVKSDDISVLCTVLGEPD  
VEVEFTWIFPGQKDERPVTIQDTWRLIHRGLGHTTRISQSVITVEDFETIDAGYYICTAQ  
NLQGQTTVATTVEFS

>sp|P78364|PHC1\_HUMAN Polyhomeotic-like protein 1 OS=Homo sapiens GN=PHC1 PE=1 SV=3

METESEQNSNSTNGSSSSGGSSRPQIAQMSLYERQAVQALQALQRQPNAQYFHFMLQQ  
QLSNAQLHSLAAVQQATIAASRQASSPNTSTTQQQTTTTQASINLATTSAQQLISRSQSV  
SSPSATTLTQSVLLGNTTSPPLNQSQAQMYLRPQLGNLLQVNRTLGRNVPLASQLILMPN  
GAVAAVQQEVPSAQSPGVHADADQVQNLAVRNQQAQAQGPQMGGSTQKAIPPGASPVSSL  
SQASSQALAVAQASSGATNQSLLNSQAGGSGNSIPGSMGPGGGGAHGGGLGQLPSSGMG  
GGSCPRKGTGVVQPLPAAQTVTVSQGSQTEAESAAAKAEADGSGQQNVGMNLTRTATPA  
PSQTLISSATYTQIQPHSLIQQQQIHLQKKQVVIQQQIAIHHQQQFQHRQSLLHTATH  
LQLAQQQQQQQQQQQQQQPPATTLTAPQPPQVPPTQQVPPSQSQQAQTLVVQPMQLSS  
PLSLPPDAAPKPIPIQSKPPVAPIKPPQLGAAKMSAAQPPPHIPVQVVGTRQPGTAQA  
QALGLAQLAAVPTSRGMPGTVQSGQAHLASSPPSSQAPGALQECPTLAPGMTLAPVQG  
TAHVVKGGATTSSPVVAQVPAAFYMQSVHLPKGPQTLAVKRKADSEERDDVSTLGSMLP  
AKASPVAESPKVMDEKSSLGEKAESVANVNANTPSELVALTPAPSVPPPTLAMVSRQMG  
DSKPPQAIKPKQILTHIIEGFVIQEGAEPFPVGCQLLKESEKPLQTGLPTGLTENQSGG  
PLGVDSPSAELDKKANLLKCEYCGKYAPAEQFRGSKRFCSMTCAKRYNVSCSHQFRLKRK  
KMKEFQEANYARVRRRGPRRSSDIARAKIQGKCHRGQEDSSRGSDNSSYDEALSPTSPG  
PLSVRAGHGERDLGNPNTAPPTPELHGINPVFLSSNPSRWSVEEVYEFIASLQGCQEIAE  
EFRSQEIDGQALLLLKEEHLMSAMNIKLGPAKICAKINVLKET

>sp|Q9BV10|PHF20\_HUMAN PHD finger protein 20 OS=Homo sapiens GN=PHF20 PE=1 SV=2

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DSPYLRPLEKIQLRKEGLHEEDGSSEFQINEQVLACWSDCRFYPAKVTAVNKDGTYTVKF  
YDGVVQTVKHIHVKAFSKQNIIVGNARPKETDHKSLSSSPDKREKFKEQRKATVNVKKDK  
EDKPLKTEKRPKQPDKEGLICSEKGVSEKSLPKNEKEDKENISENDREYSGDAQVDKK  
PENDIVKSPQENLREPKRKRGRPPSIAPTAVDSNSQTLQPITLRLRRRKISKGCEVPLKR  
PRLDKNSSQEKSKNYSENTDKDLSRRRSSRLSTNGTHEILDPLVSDLVDTDPLQDTLS  
STKESEEGQLKSALEAGQVSSALTCHSFGDGSGAAGLELNCPSMGENTMKTEPTSPLVEL  
QEISTVEVTNTFKKTDDFGSSNAPVDLDHKFRCKVVDCLKFFRKAKLLHYHMKYFHGME  
KSLEPEESPGKRHVQTRGPSASDKPSQETLTRKRVSSASPTTKDKEKNKEKKFKEFVRVK  
PKKKKKKKKKTKPEPCSEEISDTSQEPSPPKAFVTRCGSSHKPGVHMSPQLHGPESGH  
HKGKVKALEEDNLSESSSESFLWSDDEYQDQDVDTNPDEELDGGDRYDFEVVRCICEVQ  
EENDFMIQCEECQWQHGVCMGLEENVPEKYTCYVCQDPPGQRPFGKYWYDKEWLSRGH  
MHGLAFLEENYSHQNAKKIVATHQLLDGVQRVIEVLHGLQLKMSILQSREHPDLPLWCQP  
WKQHSGEGRSHFRNIPVTDTRSKEEAPSYRTLNGAVEKPRPLALPLPRSVEESYITSEHC

YQKPRAYYPAVEQKLVVETRGSALDDAVNPLHENGDDSLSPRLGWPLDQDRSKGSDPKP  
GSPKVKEYVSKKALPEEAPARKLLDRGGEGLLSSQHQWFNLLTHVESLQDEVTHRMDSI  
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>sp|Q53GA4|PHLA2\_HUMAN Pleckstrin homology-like domain family A member 2 OS=Homo sapiens  
GN=PHLDA2 PE=1 SV=2

MKSPDEVLRERGELEKRSLSLQWLKKKRGVLTSDRLSLFPASPRARPKELRFHSILKVDC  
VERTGKYVYFTIVTTDHKEIDFRCAGESCWNAALALIDFQNRRLQDFRSRQERTAPA  
APAEDAVAAAAAAPSEPSEPSRPSQPKPRTP

>sp|Q13371|PHLP\_HUMAN Phosducin-like protein OS=Homo sapiens GN=PDCL PE=1 SV=3

MTTDDKLLGEKLQYYYSSSEDESDHEDKDRGRCAPASSVPAEELAGEGISVNTGPK  
GVINDWRRFKQLETEQREEQCREMERLIKLSMTCRSHLDEEEQKQKDLQEKISGKMT  
LKEFAIMNEDQDDEEFLQQYRQRMEEMRQLHKGPQFKQVFEISSGEGFLDMIDKEQKS  
IVIMVHIYEDGIPGTEAMNGCMICLAAEYPAVKFCKVKSSVIGASSQFTRNALPALLIYK  
GGELIGNFVRVTDQLGDDFFAVDLEAFLQEFGLPEKEVLVLTSVRNSATCHSESDLEI  
D

>sp|P20941|PHOS\_HUMAN Phosducin OS=Homo sapiens GN=PDC PE=1 SV=1

MEEAKSQSLEEDFEGQATHTGPKGVINWRFKLESQSDSIPPSKKEILRQMSSPQSRN  
GKDSKERSVRKMSIQEYELIHKEKEDENCLRKYRRQCMQDMHQKLSFGPRYGFVYELETG  
KQFLETIEKELKITTIVVHIYEDGIKGDALNSSLTCLAAEYPIVKFCKIKASNTGAGDR  
FSLDVLPTLLIYKGELISNFISVAEQFAEEFFAGDVESFLNEYGLPEREVHVLEHTKI  
EEEDVE

>sp|P78356|PI42B\_HUMAN Phosphatidylinositol 5-phosphate 4-kinase type-2 beta OS=Homo  
sapiens GN=PIP4K2B PE=1 SV=1

MSSNCTSTTAVAVAPLSASKTKTKKKHFVCQKVKLFRASEPILSVLMWGVNHTINELSNV  
PVPVMLMPDDFKAYSIKIVDNHLFNKENLPSRFKFKKEYCPMVFRNLRRERFGIDDQDYQNS  
VTRSAPINSDSQRCGRFLTTYDRRFVIKTVSSEDVAEMHNILKKYHQFIVECHGNTLL  
PQFLGMYRLTVDGVETVMVTRNVFSHRLTVHRKYDLKGSTVAREASDKEKAKDLPTFKD  
NDFLNEGQKLHVGEESKKNFLEKLKRDVEFLAQLKIMDYSLVGIHDVDRAEQEEMEVEE  
RAEDEECENDGVGGNLLCSYGTTPDSPGNLLSFPRFFGPGFEFDPVDVYAMKSHESPCK  
EVYFMAIIDILTPYDTKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFNEFMSNILT

>sp|Q99755|PI51A\_HUMAN Phosphatidylinositol 4-phosphate 5-kinase type-1 alpha OS=Homo  
sapiens GN=PIP5K1A PE=1 SV=1

MASASSGPSSSVGFSSFDPAVPSCTLSSAASGIKRPMASEVLEARQDSYISLVPYASGMP  
IKKIGHRSVDSSGETTYKKTSSALKGAIQLGITHTVGSLSTKPERDVLMDYFVVESIF  
FPSEGSNLTPAHHYNDRFKTYAPVAFRYFRELFGRPDDYLYSLCSEPLIELCSSGASG  
SLFYVSSDDEFIIKTVQHKEAEFLQKLLPGYYMNLNQNPRTLTPKFYGLYCVQAGGKNIR  
IVVMNNLLPRSVKMHYKIDLGSTYKRRASQKEREKPLPTFKDLDFLQDIPDGLFLDADM  
YNALCKTLQRDCLVLQSFKIMDYSLMSIHNIDHAQREPLSSETQYSVDTRRPAPQKALY  
STAMESIQGEARRGGTMDHMGGIPARNSKGERLLLYIGIIDILQSYRFVKKLEHSWK  
ALVHDGDTVSVHRPGFYAERFQRFMCNTVFKKIPLKPSPKKFRSGSSFRRAGSSGNSC  
ITYQPSVSGEHAQVTTKAEVEPGVHLGRPDLVLPQTPLEEISEGSPIDPSFSPLVGET  
LQMLTTSTTLEKLEVAESEFTH

>sp|O75925|PIAS1\_HUMAN E3 SUMO-protein ligase PIAS1 OS=Homo sapiens GN=PIAS1 PE=1 SV=2

MADSAELKQMVMSLRVSELQVLLGYAGRNKHGRKHELLTKALHLLKAGCSPAVQMKIKEL

YRRRFQKIMTPADLSIPNVHSSPMATLSPSTIPQLTYDGHPASSPLLPVSLGPKHEL  
ELPHLTSALHPVHPDIKLQKLPFYDLLDEL IKPTSLASDNSQRFRETCFAFALTPQQVQQ  
ISSMDISGKCDFTVQVQLRFLSETSCPQEDHFPNLCVKVNTKPCSLPGYLPPTKNG  
VEPKRSPRPINITSLVRLSTTVPNTIVVSWTAEIGRNYSMAYVLVKQLSSTVLLQRLRAK  
GIRNPDHSRALIKEKLTADPDSEIATTSRLVSLLCPLGKMRLTIPCRALTCSHLQCFDAT  
LYIQMNEKKPTWVCPVCDKKAPYEHLIIDGLFMEILKYCTDCDEIQFKEDGTWAPMRSKK  
EVQEVSASYNGVDGCLSSSTLEHQVASHHQSSNKNKKVEIDLTDSSSDEEEEPSAKRT  
CPSLSPTSPLNNKILSLPHQASPVSRTPSLPAVDTSYINTSLIQDYRHPFHMTMPYDL  
QGLDFFPFLSGDNQHYNTSLLAAAAAASDDQDLLHSSRFFPYTSSQMFLDQLSAGGSTS  
LPTTNGSSSGSNSSLVSSNSLRESHSTVTNRSSDTASIFGIIPDIISLD

>sp|Q9NRD5|PICK1\_HUMAN PRKCA-binding protein OS=Homo sapiens GN=PICK1 PE=1 SV=2

MFADLDYDIEEDKLGIPTVPGKVTLQKDAQNLIGISIGGGAQYCPLYIVQVFDNTPAAL  
DGTVAAGDEITGVNGRSIKGKTKVEVAKMIQEVKGEVTIHYNKLQADPKQGMSLDIVLKK  
VKHRLVENMSSGTADALGLSRAILCNDGLVKRLEELERTAELYKGMTEHTKNLLRAFYL  
SQTHRAFGDVFSVIGVREPQPAASEAFVKFADAHRSIEKFGIRLLKTIKPMITDLNTYLN  
KAIPDTRLTIKKYLDVKFEYLSYCLKVKEMDDEEYSCIALGEPLYRVSTGNYEYRLILRC  
RQEARARFSQMRKDVLEKMELLDQKHVQDIVFQLQRLVSTMSKYNDYAVLRDADVFPI  
EVDLAHTTLAYGLNQEEFTDGEEDTAAAGEPSRDTRGAAGPLDKGGSWCDS

>sp|Q9H490|PIGU\_HUMAN Phosphatidylinositol glycan anchor biosynthesis class U protein  
OS=Homo sapiens GN=PIGU PE=1 SV=3

MAAPLVLVVAVTVRAALFRSSLAEFISERVEVVSPLSSWKRVEGLSLLDLGVSPYSG  
AVFHETPLIIYLFHFLIDYAEVFMITDALTAIALYFAIQDFNKVVFKKQKLLELDQYA  
PDVAELIRTPMEMRYIPLKVALFYLLNPYITLSCVAKSTCAINNTLIAFFILTTIKGSF  
LSAIFLALATYQSLYPLTLFVPGLLYLLQRQYIPVKMKSKAFWIFSWEYAMMYVGSLVVI  
ICLSFFLLSSWDFIPAVYGFILSVPDLTPNIGLFWYFFAEMFEHFSLFFVCVFQINVFFY  
TIPLAIKLKEHPIFFMFIQIAVIAIFKSYPTVGDVALYMAFFPVWNHLYRFLRNIFVLT  
CIIIVCSLLFPVLWHLWIYAGSANSNFFYAITLTFNVGQILLISDYFYAFLRREYYLTHGL  
YLTAKDGTEAMLVK

>sp|Q3MUY2|PIGY\_HUMAN Phosphatidylinositol N-acetylglucosaminyltransferase subunit Y  
OS=Homo sapiens GN=PIGY PE=1 SV=1

MFLSLPTLTVLIPLVSLAGLFYSASVEENFPQGCTSTASLCFYSLLLPITIPVYVFFHLW  
TWMGIKLFHRN

>sp|P22061|PIMT\_HUMAN Protein-L-isoaspartate (D-aspartate) O-methyltransferase OS=Homo  
sapiens GN=PCMT1 PE=1 SV=4

MAWKSGGASHSELIHNLKNGIIKTDKVFVMLATDRSHYAKNPYMDSPQSIGFQATIS  
APHMHAYALELLFDQLHEGAKALDVGSGSGILTACFARMVGCTGKVGIDHIKELVDDSV  
NNVRKDDPTLLSSGRVQLVVGDRMGYAEAPYDAIHVGAAAPVVPQALIDQLKPGGRLI  
LPVGPAGGNQMLEQYDKLQDGSIKMKPLMGVIYVPLTDKEKQWSRWK

>sp|Q9NWT1|PK1IP\_HUMAN p21-activated protein kinase-interacting protein 1 OS=Homo sapiens  
GN=PAK1IP1 PE=1 SV=2

MELVAGCYEQVLFGFAVHPEPEACGDHEQWTLVADFTHHAHTASLSAVAVNSRFVVTGSK  
DETIHIYDMKKKIEHGALVHHSGTITCLKFYGNRHLISGAEDGLICIWDAKKWECLKSIK  
AHKGQVTFLSIHPSGKLALSVGTDKTLRTWNLVEGRSAFIKNIKQNAHIVEWSPRGEQYV  
VIIQNKIDIIYQLDTASISGTITNEKRISVKFLSESVLAVAGDEEVIRFFDCDSLVCLE



FKAHENRVKDMFSFEIPEHHVIVSASSDGFIKMWKLKQDKKVPPSLLCEINTNARLTCLG  
VWLDKVVADMKESLPAAEPSVSKEQSKIGKKEPGDTVHKEEKRSKPNTKKRGLTGDSKK  
ATKESGLISTKKRKMVEMLEKKRKKKKIKTMQ

>sp|Q9POL9|PK2L1\_HUMAN Polycystic kidney disease 2-like 1 protein OS=Homo sapiens  
GN=PKD2L1 PE=1 SV=1

MNAVGSPEGQELQKLGSQAWDNPAYSGPPSPHGTLRVCTISSTGPLQPQPKKPEDEPQET  
AYRTQVSSCCLHICQGIRGLWGTTLTENTAENRELYIKTTLRELLVYIVFLVDICLLTYG  
MTSSSAYYYTKVMSEFLHTPSDTGVSFQAISSMADFWDFAQGPLDSLYWTKWYNNQSL  
GHGSHSFIYYENMLLGVPRRLQKLVRNDSCVVHEDFREDILSCYDVYSPDKEEQLPFGPF  
NGTAWTYHSQDELGGFSHWGRLTSSYGGGYLDLPGSRQGSAAELRALQEGWLDRGTRV  
VFIDFSVYNANINLFCVLRLLVVEFPATGGAIPSWQIRTVKLIRYVSNWDDFIVGCEVIFC  
VFIFYVVEEILELHHLRLRYLSSIWNILDLVVILLSIVAVGFHIFRTLEVNRMLMGKLLQ  
QPNTYADFEFLAFWQTQYNNMNAVNLFFAWIKIFYISFNKTMTQLSSTLARCAKDILGF  
AVMFFIVFFAYAQGLGYLLFGTQVENFSTFIKCIFTQFRIILGDFDYNAIDNANRILGPAY  
FVTYVFFVFFVLLNMFLAIINDTYSEVKEELAGQKDELQSDLLKQGYNKTLLRLRLRKE  
RVSDVQKVLQGGEQEIQFEDFTNTLRELGHAEHEITELTATFTKFDNRILDEKEQEK  
MRQDLEEEERVALNTEIEKLGRSIVSSPQGKSGPEAARAGGWVSGEEFYMLTRRVLQLETV  
LEGVVSQIDAVGSKLMLERKGLAPSPGVKEQAIWKHPQPAPAVTPDPWGVQGGQSEV  
PYKREEEALEERRLSRGEIPTLQRS

>sp|P42338|PK3CB\_HUMAN Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit  
beta isoform OS=Homo sapiens GN=PIK3CB PE=1 SV=1

MCFSFIMPPAMADILDIWAVDSQIASDGSIPVDLLPTGIYIQLVPREATISYIKQMLW  
KQVHNYPMFNLLMDIDSYMFACVNQTAVYEELEDETRRLCDVRPFLPVLKLVRSCDPGE  
KLDSKIGVLIGKGLHEFDSLKDPEVNEFRMRKFSEEKILSLVGLSWMDWLKQTYPPEH  
EPSIPENLEDKLYGGKLIVAVHFENCQDVFSFQVSPNMNPIKVNELAIQKRLTIHGKED  
VSPYDYLQVSGRVEYVFGDHLPIQFYIRNCVMNRALPHFILVECKIKKMYEQEMIAI  
EAAINRNSSNLPLPLPPKTRIISHVWENNNPFQIVLVKGNKLNTEETVKVHVRAGLFHG  
TELLCKTIVSSEVSGKNDHIWNEPLEFDINICDLPRMARLCFAVYAVLDKVKTKKSTKI  
NPSKYQTIKAGKVHYPVAVWNTMVDFKGLRTGDIILHSWSSFPDELEEMLNPMGTVQ  
TNPYTENATALHVKFPENKKQPYYPFDKIIEKAAEIASSDSANVSSRGGKKFLPVLKE  
ILDRDPLSQLCENEMDLIWTLRQDCREIFPQSLPKLLSIKWNKLEDVAQLQALLQIWPK  
LPPREALELLDFNYPDQYVREYAVGCLRQMSDEELSQYLLQLVQVLKYEPFLDCALSRFL  
LERALGNRRIGQFLFWHLRSEVHIPAVSVQFGVILEAYCRGSVGHMKVLSKQVEALNKLK  
TLNSLIKLNNAVKLNRAGKEAMHTCLKQSAYREALSDLQSPLNPCVILSELYVEKCKYMD  
SKMKPLWL VYNNKVFGE DSVGVIFKNGDDLQDMLTLQMLRLMDLLWKEAGLDLRMLPYG  
CLATGDRSGLIEVVSTSETIADIQLNSSNVAFAAFNKDALLNLKEYNSGDDLDRATIEE  
FTLSCAGYCVASYVLGIGDRHSDNIMVKKTGQLFHIDFGHILGNFKSKFGIKRERVPFIL  
TYDFIHVIQQGKTGNTKFGFRQCCEDAYLILRRHGNLFITLFALMLTAGLPELTSVKD  
IQYLDLSLALGKSEEEALKQFKQKQFDEALRESWTTKVNWMAHTVRKDYS

>sp|Q9HB21|PKHA1\_HUMAN Pleckstrin homology domain-containing family A member 1 OS=Homo  
sapiens GN=PLEKHA1 PE=1 SV=2

MPYVDRQNRCIGFLDIEENENSGKFLRRYFILDTRSDSFVWYMDNPQNLPSSSRVGAIK  
LTYISKVSDATKLRPKAEFCFVMNAGMRKYFLQANDQQDLVEWVNLNKAIKITVPKQSD  
SQPNSDNLSRHGECGKKQVSYRTDIVGGVPIITPTQKEEVNECGESIDRNNLKRSQSHLP

YFTPKPPQDSAVIKAGYCVKQGAVMKNWKRRYFQLDENTIGYFKSELEKEPLRVIPLKEV  
HKVQECKQSDIMMRDNLFEIVTTSRTFYVQADSPEEMHSWIKAVSGAIVAQRGPGRSASS  
EHPPGPSESKHAFRPTNAATATSHSTASRSNSLVSTFTMEKRGFYESLAKVKPGNFVKQT  
VSPREPASKVTEQALLRPQSKNGPQEKDCDLVDLDDASLPVSDV

>sp|Q9Y2H5|PKHA6\_HUMAN Pleckstrin homology domain-containing family A member 6 OS=Homo  
sapiens GN=PLEKHA6 PE=1 SV=4

MSNKTGGKRPATTNSDIPNHNMVSEVPPERPSVRATRTARKAVAFGKRSHSMKRNP NAPV  
TKAGWLFKQASSGVKQWNKRWFVLVDRCLFYKDEKEESILGSIPLLSFRVA AVQPSDNI  
SRKHTFKA EHAGVRTYFFSAESPEEQEAWIQAMGEAARVQIPPAQKSVPQAVRHSHEKPD  
SENVPPSKHHQPPHNSLPKPEPEAKTRGEGDGRGCEKAERRPERPEVKKEPPVKANGLP  
AGPEPASEPGSPYPEGPRVPVGGGEQPAQPNGWQYHSPSRPGSTAFPSQDGETGGHRRSFP  
PRTNPDKIAQRKSSMNQLQQWVNLRRGVPPPEDLRSPSRFYFVSRRVPEYYGPYSSQYPD  
DYQYYPGVRPESICSM PAYDRISPPWALEDKRHA FRNGGPAYQLREWKEPASYGRQDA  
TVWIPSPSRQPVYYDELDAASSSLRRLSLQPRSHSVPRSPSQGSYSRARIYSPVRSPSAR  
FERLP RSEDIYADPAAYVMRRS ISSPKVPPYEVFRDSLHTYKLNEQD TDKLLGKLCEQ  
NKVVREQDRLVQQLRAEKESLESALMGTHQELEMFGSQPAYPEKLRHKKDSLQNQLINIR  
VELSQATTALTNSTIEYEHLESEVSALHDDLWEQLNLD TQNEVLNRQIQKEIWRIQDVME  
GLRKNNPSRGTD TAKHRGGLGPSATYSSNSPASPLSSASLTSPLSPFSLVSGSQGSPTKP  
GSNEPKANYEQSKKDPHQTLPDTPRDISLVPTRQEVEAEKQAALNKVGVP PRTKSPTD  
DEVTPSAVVRNASGLTNGLSSQERPKSAVFPGEKVKMSVEEQIDRMRRHQSGSMREKR  
RSLQLPASPADPSPRPAYKVVRHRHSIHEVDISNLEAALRAEPPGGHAYETPREE IARL  
RKMELEPQHYDVDINKELSTDPKVLIPERYIDLEPDTPLSPEELKEKQKKVERIKTLIAK  
SSMQNVVPIGEGSDVDPQDSESLQEKEKRIEISCALATEASRRGRMLSVCATPSPT  
SPASPAPPANPLSSESPRGADSSYTMRV

>sp|Q6IQ23|PKHA7\_HUMAN Pleckstrin homology domain-containing family A member 7 OS=Homo  
sapiens GN=PLEKHA7 PE=1 SV=2

MAAATVGRDTLPEHWSYGVCRDGRVFFINDQLRCTTWLHPRTGEPVNSGHMIRSDLPRGW  
EEGFTEEGASYFIDHNQQTAFRHPVTGQFSPENSEFILQEENPHMSKQDRNQRPSSMV  
SETSTAGTASTLEAKPGPKI IKSSSKVHSFGKRDQAIRRNPNVPVVVRGWLHKQDSSGMR  
LWKRRWFVLADYCLFYKDSREEAVLGS IPLPSYVISPVAPEDRISRKYSFKAVHTGMRA  
LIYNSSTAGSQAEQSGMRTYYFSADTQEDMNAWVRAMNQAQVLSRSS LKRDMEKVERQA  
VPQANHTESCHECGRVGPGHTRDCPHRGHDDIVNFERQE QEGEQYRSQRDPLEGKRDRSK  
ARSPYSPA EEDALFMDLPTGPRGQQAQPQRAEKNGLPASYGPGEQNGTGGYQRAFP PRT  
NPEKHSQRKS NLAQVEHWARAQKGDSRSLPLDQTLPRQGPGQSLSF PENYQTLPKSTRHP  
SGGSSPPPRNLPSDYKYAQDRASHLKMSSEERRAHRDGT VWQLYEWQQRQQFRHGSPTAP  
ICLGSPEFTDQGRSRSMLEVPRISVPPSPSDIPPPGPPRVFP PRRPHTPAERTVTKPPD  
QRRSVDISLGDSPRRARGHAVKNSSHVDRRSMPSMGYMTHTVSAPSLHGKSADDTYLQLK  
KDLEYLDLKM TGRDLLKDRSLKPVKIAESD TDVKLSIFCEQDRVLQDLEDKIRALKENKD  
QLESVLEVLHRQMEQYRDQPQHLEK IAYQQKLLQEDLVHIRAELSRESTEMENAWNEYLK  
LENDVEQLKQTLQE QHRRAFFQEKSQIQKDLWRIEDVTAGLSANKENFRILVESVKNPE  
RKTVP LFPHPVPSLSTSESKPPPQSPPTSPVRTPLEVRLFPQLQTYVPYRPHPPQLRK  
VTSPLQSP TKAKPVEDEAPRPPLPELYSPEDQPPAVPPLPREATIIRHTSVRGLKRQS  
DERKRDRELGC VNGDSRVELRSYVSEPELATLSGDMAQPSLGLVGPE SRYQTLPGRGLS  
GSTSRLQQSSTIAPYVTLRRGLNAESSKATFPRPKSALERLYSGDHQRGKMSAEEQLERM

KRHQKALVRERKRTLGGERTGLPSSRYLSRPLPGDLGSVC

>sp|Q96S99|PKHF1\_HUMAN Pleckstrin homology domain-containing family F member 1 OS=Homo sapiens GN=PLEKHF1 PE=1 SV=3

MVDHLANTEINSQRIAAVESCFGASGQPLALPGRVLLGEGVLTKECRKKAKPRIFFLFND  
ILVYGSIVLNRKYRSQHIIPLEEVTLLELPETLQAKNRWMIKTAKKSFVVSAASATERQ  
EWISHIEECVRRQLRATGRPPSTEHAAPWIPDKATDICMRCTQTRFSALTRRHCRKCGF  
VVCAECSTRQRFLLPRLSPKPVVCSLCYRELAAQQRQEEAEEQGAGSPGQPAHLARPICG  
ASSGDDDDSDDEDKEGSRDGDWPSSVEFYASGVASAFHS

>sp|Q9H7P9|PKHG2\_HUMAN Pleckstrin homology domain-containing family G member 2 OS=Homo sapiens GN=PLEKHG2 PE=1 SV=3

MPEGAQGLSLSKPSPLGCGRRGEVCDGCTVCETRTAPAAPTMASPRGSGSSTSLSTVGS  
EGDPAPGPTPACSASRPEPLPGPPIRLHLSVPGIPGSARPSRLERVAREIVETERAYVRD  
LRSIVEDYLGPLLDGGVGLSVEQVGTLFANIEDIYEFSSELLELENSSSAGGIAECFV  
QRSEDFDIYTLYCMNYPSSLALLRELSLPPAALWLQERQAQLRHSLPLQSFLKPVQRI  
LKYHLLLQELGKHWAEGPGTGGREMVEEAIVSMTAVAWYINDMKRKQEAARLQEVQRRL  
GGWTGPELSAFGELVLEGAFRGGGGGPRLRGGERLLFLFSRMLLVAKRRGLEITYKGHI  
FCCNLSVSESPRDPLGFKVSDLTIPKHRLLQAKNQEEKRLWIHCLQRLFFENHPASIPA  
KAKQVLLENLHLCAPKSKPVLEPLTPPLGSPRPDARSFTPGRRNTAPSPGPSVIRRGR  
QSEPVKDPYVMFPQNAKPGFKHAGSEGELYPPESQPPVSGSAPPEDLEDAGPPTLDPSGT  
SITEEILELLNQRLRDPGPSTHDIPKFPGDSQVPGDSETLTFQALPSRDSSEEEEEEEE  
GLEMDERGPSPLHVLEGLESSIAAEMPSIPCLTKIPDVPNLPEIPSRCEIPEGSRLPSLS  
DISDVFEMPCLPAIPSPVNTPSLSSTPTLSCDSWLQGPLQEPAEAPATRRELFSGSNPGK  
LGEPPSGGKAGPEEDEEGVSFTDFQPQDVTQHQQFPDELAFRSCSEIRSAWQALEQQQLA  
RPGFPEPLLILEDSDLGGDSGSGKAGAPSSERTASRVRELARLYSERIQQMRAETRASA  
NAPRRRPRVLAQPQSPCLPQEQAEPGLLPAFGHVLVCELAFLPTCAQESVPLGPAVWVQ  
AAIPLSKQGGSPDGQLHVSNLPKQDLPGIHVSAATLLPEQGGSRHVQAPAATPLPKQEG  
PLHLQVPALTTFSQGHPEIQVPATTPLPEHRSHMVIPAPSTAFCEQGHCADIHVPTTP  
ALPKEICSDFTVSVTTPVPKQEGHLDSEPTNIPLTKQGGSRDVQGPDPVCSQPIQPLSW  
HGSSLDPQPGDTLPLPCHLPDLQIPGTSPLPAHGSHLDHRIAPANAPLSLSQELPDTQV  
PATTPPLPQVLTDIWVQALPTSPKQGSPLDIQGPAAPPLPEPSLTDQVQKLTPSLEQ  
KSLIDAHVPAATPLPERGSLDIQGLSPTPVQTTMVLSPGGSLASHVARLESSDLTPPH  
SPPSSRQLLGPNAALSRYLAASYISQSLARRQGGGAPAAARGSWSSAPTSRASSPP  
PQPQPPPPPARRLSYATTVNIHVGGGGRLRPAKAQVRLNHPALLASTQESMGLHRAQGAP  
DAPFHM

>sp|Q3KR16|PKHG6\_HUMAN Pleckstrin homology domain-containing family G member 6 OS=Homo sapiens GN=PLEKHG6 PE=1 SV=3

MKAFGPPHEGPLQGLVASRIETYGGRHRASAQSTAGRLYPRGYVLDPSRRRLQQYVPFA  
RGSGQARGLSPMRLRDEPEKRRHGGHVAGLLHSPKLKELTKAHELEVLRLHTFSMFGMPR  
LPPEDRRHWEIGEGDSGLTIEKSWRELVPGHKEMSQELCHQQEALWELLTTELIYVRKL  
KIMTDLLAAGLLNLQRVGLMEVSAETLFGNVPSLIRTHRSFWDEVLGPTLEETRASGQP  
LDPIGLQSGFLTFGQRFHPYVQYCLRVKQTMAYAREQQETNPLFAFVQWCEKHKRSGRQ  
MLCDLLIKPHQRITKYPLLLHAVLKRSPEARAQEALNAMIEAVESFLRHINGQVRQGEEQ  
ESLAAAQRIQPYEVLPEPSDEVEKNLRPFSTLDTSPMLGVASEHTRQLLLEGPVVRVKE  
GREGKLDVYFLFSDVLLVTKPQRKADKAKVIRPPLMLEKLVCQPLRDPNSFLLIHLTEF

QCVSSALLVHCPSTDRAQWLEKTQQAQAALQKLKAEYVQKRELLTLYRDQDRESPST  
RPSTPSLEGSQSSAEGRTPEFSTIIPHLVVTEDTDEDAPLVPDDTSDSGYGTLIPGTPTG  
SRSPLSRLRQALRRDPRLTFSTLELRDIPLRPHPPDPQAPQRRSAPELPEGILKGGSLP  
QEDPPTWSEEDGASERGNVVETLHRARLRGQLPSSPTHADSAGESPWESSGEEEEEGP  
LFLKAGHTSLRPMRAEDMLREIREELASQRIEGAEPRDSRPRKLTRAQLQRMGRPHIIQ  
LDTPLSASEV

>sp|Q9NW61|PKHJ1\_HUMAN Pleckstrin homology domain-containing family J member 1 OS=Homo sapiens GN=PLEKHJ1 PE=1 SV=1

MRYNEKELQALSRQPAEMAAELGMRGPKKGSVLKRRLVKLVVNFLFYFRTDEAEPVGALL  
LERCRVVREPGTFSISFIEDPERKYHFECSSSEQCEWMEALRRASYEFMRRSLIFYRN  
EIRKVTGKDPLEQFGISEEARFQLSGLQA

>sp|Q8IWE5|PKHM2\_HUMAN Pleckstrin homology domain-containing family M member 2 OS=Homo sapiens GN=PLEKHM2 PE=1 SV=2

MEPGEVKDRILENISLSVKKLQSYFAACEDEIPAIRNHDKVLQRLCEHLDHALLYGLQDL  
SSGYWVLVVHFTTREAIAKQIEVLQHVATNLGRSRAWLYLALNENSLESLRFLQENLGLL  
HKYYVKNALVCSHDHLLTFLTLVSGLEFIRFELDLAPYLDLAPYMPDYKPYLLDFED  
RLPSSVHGSDSLNSFNSVTSTNLEWDDSAIAPSSDYDFGDFPAPVSPVSTDWEDGD  
LTDTVSGPRSTASDLTSSKASTRSPTQRQNPFEPAETVSSDTPVHTTSQEKEEAQA  
LDPPDACTELEVIRVTKKKKIGKKKKSRSDEEASPLHPACSQKKCAKQGDGDSRNGSPSL  
GRDSPDTMLASPQEEGEGPSSTTESSERSEPGLLIPEMKDTSMERLGQPLSKVIDQLNGQ  
LDPSTWCSRAEPPDQSFRTGSPGDAPERPPLCDFSEGLSAPMDFYRFTVESPTVTSGGG  
HHDPAGLGQPLHVPSSPEAAGQEEEGGGEGQTPRPLEDTTREAQELEAQLSLVREGPVS  
EPEPGTQEVLCQLKRDQSPCLSSAEDSGVDEGQGSPSEMVSSEFRVDNNHLLLLMIHV  
FRENEEQLFKMIRMSTGHMEGNLQLLYVLLTDCYVYLLRKGATEKPYLVEEAVSYNELDY  
VSVGLDQQTIVKLCTNRRKQFLLDTADVALAEFFLASLKSAMIKGCREPPYPSILDTATM  
EKLALAKFVAQESKCEASAVTVRFYGLVHWEDPTDESLGPTPCHCSPPEGTITKEGMLHY  
KAGTSYLGKEHWKTCFVVLNNGILYQYPDRTDVPLLSVNMGGEQCGGCRRANTTDRPHA  
FQVILSDRPCLELSAESEAEMAEMWHLCAVSKGVIPQGVAPSPCIPCCVLVLTDDRLFT  
CHEDCQTSFFRSLGTAKLGDISAVSTEPGKEYCVLEFSQDSQQLPPWVIYLSCTSELDR  
LLSALNSGWKTIYQVDLPHTAIQEASNKKKFEDALSLIHSWQRSDSLCRGRASRDPMC

>sp|Q6P5Z2|PKN3\_HUMAN Serine/threonine-protein kinase N3 OS=Homo sapiens GN=PKN3 PE=1 SV=1

MEEGAPRQPGPSQWPPPEDEKEVIRRAIQKELKIKEGVENLRRVATDRRHLGHVQQLRSS  
NRRLEQLHGELRELHARILLPGPGPGAEPVASGPRPWAEQLRARHLEALRRQLHVELKV  
KQGAENMTHTCASGTPKERKLLAAQQLRDSQLKVALLRMKISSLEASGSPEPGPELLA  
EELQHRLHVEAAVAEGAKNVKLLSSRRTQDRKALAEQAQLQESSQKLDLLRLALEQLL  
EQLPPAHLRSRVRELRAAVPGYPQPSGTPVKPTALTGTQVRLGCEQLLTAVPGRSP  
AAALASSPSEGWLRTKAKHQGRGELASEVLAVLKVDNRVVGQTGWGQVAEQSWDQTFVI  
PLERARELEIGVHWRDWRQLCGVAFLRLEDFLDNACHQLSLSLVPQGLLFAQVTFCDPVI  
ERRPRLQRQERIFSKRRGQDFLRASQMNLMGMAAWGRLVMNLLPPCSPSTISPPKGCPR  
PTTLREASDPATPSNFLPKKTPLGEEMTPPKPPRLYLPQEPTSEETPRTRKPHMEPRTR  
RGPSPPASPTRKPPRLQDFRCLAVLGRGHFGKVLLVQFKGTGKYAIAKALKKQEVLSRDE  
IESLYCEKRILEAVGCTGHPFLSLLACFQTSSHACFVTEFVPGGLMMQIHEDVFPEPQ  
ARFYVACVVLGLQFLHEKKIIYRDLKLDNLLDAQGFLKIADFGLCKEGIGFGDRTSTFC

GTPEFLAPEVLTQEAYTRAVDWWGLGVLLYEMLVGECPPGDTSEEVFDCIVNMDAPYPG  
FLSVQGLEFIQKLLQKCPEKRLGAGEQDAEEIKVQPPFRTTNWQALLARTIQPPFVPTLC  
GPADLRYFEGETGLPPALTPPAPHSLLTARQQAARDFDFVSERFLEP

>sp|Q9ULC6|PADI1\_HUMAN Protein-arginine deiminase type-1 OS=Homo sapiens GN=PADI1 PE=1  
SV=2

MAPKRVVQLSLKMPHAVCVVGVEAHVDIHSDVPGKANSFRVSGSSGVEVFMVYNRTRVK  
EPIGKARWPLDTDADMVVSVGTASKELKDFKVRVSYFGEQEDQALGRSVLYLTGVDISLE  
VDTGRTGKVKRSQGDKKTWRWGPEGYGAILLVNCDRDNHRSAPDLTHSWLSLADLQDM  
SPMLLSCNGPDKLFDShKLVLNVPFSDSKRVRVFCARGGNSLSDYKQVLGPQCLSYEVER  
QPGEQEIKFYVEGLTFPDADFLGLVSLSVSLVDPGTLPEVTLFTDTVGFRMAPWIMTPNT  
QPPEELYVCRVMDTHGSNEKFLEDMSYLTKANCKLTICPQVENRNRWIQDEMEFGYIE  
APHKSFVPVFDSPRNRGLKDFPYKRILGPDFGYVTREIPLPGSSLDSFGNLDVSPVTV  
GGTEYPLGRILIGSSFPSKSGGRQMARAVRNFLKAQQVQAPVELYSDWLSVGHVDEFLTFV  
PTSDQKGFRLLLASPSACLKLFQEKKEEGYGEAAQFDGLKHQAKRSINEMLADRHLQRDN  
LHAQKCIDWNRNVLKRELGLAESDIVDIPQLFFLKNFYAEAFFPDMVMNVVLGKYLGIK  
PYGPIINGRCCLEEKVQSLLEPLGLHCIFIDDYLSYHELQGEIHCCTNVRKPFPPFKWWN  
MVP

>sp|Q96GU1|PAGE5\_HUMAN P antigen family member 5 OS=Homo sapiens GN=PAGE5 PE=1 SV=2

MQAPWAGNRGWAGTREEVRDMSEHVTRSQSSERGNQESSQPVGPVIVQQPTEEKREEE  
PPTDNQGIAPSGEIKNEGAPAVQGTDVFAFQQELALLKIEDAPGDGPDVREGTLPTFDPT  
KVLEAGEGQL

>sp|Q9BTK6|PAGR1\_HUMAN PAXIP1-associated glutamate-rich protein 1 OS=Homo sapiens  
GN=PAGR1 PE=1 SV=1

MSLARGHGDTAASTAAPLSEEGEVTSGLQALAVEDTGGPSASAGKAEDEGEGRRETERE  
GSGGEEAQGEVPSAGGEEPAEEDSEDWCVPCSDEEVELPADGQPWMPPPSEIQRLYELLA  
AHGTLELQAEILPRRPPTPEAQSEEEERSDEEPEAKEEEEEKPHMPTEFDDEPVTPKDS  
LIDRRRTPGSSARSQKREARLDKVLSDMKRHKKLEEQILRTGRDLFSLDSEDPSPASPPL  
RSSGSSLFPRQRKY

>sp|P05121|PAI1\_HUMAN Plasminogen activator inhibitor 1 OS=Homo sapiens GN=SERPINE1 PE=1  
SV=1

MQMSPALTCLVLGLALVFGESAVHHPPSYVAHLASDFGVRVFQQAQASKDRNVVFSKY  
GVASVLAMLQLTTGGETQQQIQAAAGFKIDDKGMALRHLYKELMGPWNKDEISTDAI  
FVQRDLKLVLQGFMPHFRLFRSTVKQVDFSEVERARFIINDWVKTHTKGMISNLLGKAV  
DQLTRLVLVNALYFNGQWKTFFPDSSTHRRLFHKSDGSTVSVPMMAQTNKFNYTEFTPD  
GHYYDILELPYHGDTLSMFIAPYEKEVPLSALTNILSAQLISHWKGNMTRLRLLVLPK  
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQVKKIEVNESGTVASS  
STAVIVSARMAPEEIIMDRPFLFVVRHNPTGTVLFMGQVMEP

>sp|Q8NC51|PAIRB\_HUMAN Plasminogen activator inhibitor 1 RNA-binding protein OS=Homo  
sapiens GN=SERBP1 PE=1 SV=2

MPGHLQEGFGCVVTNRFDQLFDDSDPFVFLKAAENKKKEAGGGVGGPGAKSAAQAAAQ  
TNSNAAGKQLRKESQKDRKNPLPPSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQGE  
GKIIDRRPERRPPRERRFEKPLEEKGEGEFSVDRPIIDRPIRGRGGLGRGRGGRGMG  
RGDGFDSRGKREFDRHSGSDRSSFSHYSLKHEDKRGGSGSHNWGTVKDELTESPKYIQK  
QISYNYSDLDQSNVTEETPEGEEHHPVADTENKENEVEEVKEEGPKEMTLDEWKAIQNKD

RAKVEFNIRKPNEGADGQWKGFVLHKSKEEHAEDSVMDDHFRKPANDITSQLEINFG  
DLGRPGRGGRRGGRRGGRRPNRGSRTDKSSASAPDVEDDPEAFPALA

>sp|PODN37|PAL4G\_HUMAN Peptidyl-prolyl cis-trans isomerase A-like 4G OS=Homo sapiens  
GN=PPIAL4G PE=3 SV=1

MVNSVIFFDITVDGKPLGRISIKQFADKIPKTAENFRALSTGEKGFYKGSFHRRIIPGF  
MCQGGDFTHPNGTGDKSIYGEKFDDENLIRKHTGSGILSMANAGPNTNGSQFFICTAKTE  
WLDGKHVAFGKVKERNIVEAMEHFGYRNSKTSKKITIADCGQF

>sp|Q6UY27|PATE2\_HUMAN Prostate and testis expressed protein 2 OS=Homo sapiens GN=PATE2  
PE=2 SV=1

MLVLFLLGTVFLLCPYWELHDPKATEIMCYECKKYHLGLCYGVMTSCSLKHKQSCAVE  
NFYILTRKGQSMYHYSKLSMTCEDINFLGFTKRVELICDHSNYCNLPEGV

>sp|C9JE40|PATL2\_HUMAN Protein PAT1 homolog 2 OS=Homo sapiens GN=PATL2 PE=1 SV=1

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LGDDPAVLGAVHNTQRALLSSPGVKAPGMLGMSLASLHFLWQTLDYLSPIPFWPTFPSTSS  
PAQHFGPRLPSPDPTLFCSLTWSPPRFSLTLQLHPRHQRILQQQHSQTPSPPAKKPWS  
QQPDPYANLMTRKEKDWVIKVMVQLQSAKPRLDDYYYQEYYQKLEKKQADEELLGRRNR  
VESLKLVTPIPKAEAYESVVRIEGSLGQVAVSTCFSPRRADAVPHGTQEQDIEAASSQ  
RLRVLYRIEKMFLQLEIEEGWKYRPPPCFSEQQSNQVEKLFQTLKTQEQQNNLEEAADG  
FLQVLSVRKGKALVARLLPFLPQDQAVTILLAITHHLPLLVRDQADQALQMLFKPLGKC  
ISHLTLHELLQGLQGLTLLPPGSSERPVTTVLQNGFGISLLYALLSHGEQLVSLHSSLEE  
PNSDHTAWTDMVVLIAWEIAQMPTASLAEPLAFPSNLLPLFCHHVDKQLVQQLEARMEFA  
WIY

>sp|P23760|PAX3\_HUMAN Paired box protein Pax-3 OS=Homo sapiens GN=PAX3 PE=1 SV=2

MTTLGAVPRMMRPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINGRPLPNHIRHKIV  
EMAHHGIRPCVISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPKQVTPDVEKKIEE  
YKRENPGMFSWEIRDKLLKDAVCDRNTVPSVSSISRILRSKFGKGEAADLERKEAEEES  
EKKAKHSIDGILSERASAPQSDEGSDIDSEPDPLKRRQRRSRTTFTAEQLEELERA  
FER THYPDIYTREELAQRALTEARVQVWFSNRRARWRKQAGANQLMAFNHLIPGGFPPTAMP  
TLPTYQLSETSYQPTSIPQAVSDPSSTVHRPQPLPSTVHQSTIPSNPDSSSAYCLPSTR  
HGFSSYTDSFVPPSGPSNPMNPTIGNGLSPQVMGLLTNHGGVPHQPQTDYALSPLTGGL  
PTTTSASCSQRLDHMSLDSLPTSQSYCPPTYSTTGYSMDPVTGYQYGGYQSKPWTF

>sp|Q02548|PAX5\_HUMAN Paired box protein Pax-5 OS=Homo sapiens GN=PAX5 PE=1 SV=1

MDLEKNYPTPRTSRTGHGGVNQLGGVFVNGRPLPDVVRQRIVELAHQGVPCDISRQLRV  
SHGCVSKILGRYETGSIKPGVIGGSKPKVATPKVVEKIAEYKRQNPMTFAWEIRDRLA  
ERVCDNDTPSVSSINRIIRTKVQPPNPVPASSHSIVTGSVTQVSSVSTDSAGSSYS  
ISGILGITSPSADTNKRKRDEGIQESVPNGHSLPGRDFLRKQMRGDLFTQQQLEVLD  
RV FERQHYSDIFTTTEPIKPEQTTEYSAMASLAGGLDDMKANLASPTPADIGSSVPGPQSYP  
IVTGRDLASTTLPGYPPHVPPAGQGSYSAPTTLTGMVPGSEFSGSPYSHPYSSYNDSWRF  
PNPGLLGSPYYSAAAARGAAPAAATAYDRH

>sp|P26367|PAX6\_HUMAN Paired box protein Pax-6 OS=Homo sapiens GN=PAX6 PE=1 SV=2

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YETGSIRPRAIGGSKPRVATPEVSKIAQYKRECPISFAWEIRDRLLESGVCTNDNIPSV  
SSINRVLRLASEKQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQ  
EGGGENTNSISSNGEDSDEAQMRLQLKRKLQRNRTSFTQEIEALEKEFERTHYPDV  
FAR

ERLAAKIDLPEARIQVWFSNRRRAKWRREEKLRNQRRQASNTPSHIPISSSFSTSVYQPIP  
QPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFTMANNLPMQPPVPSQTSSYSCMLPT  
SPSVNGRSYDTPPHMQTHMNSQPMGTSGTSTGLISPGVSVPVQVPGSEPDMSQYWPR  
LQ

>sp|Q7L5N7|PCAT2\_HUMAN Lysophosphatidylcholine acyltransferase 2 OS=Homo sapiens  
GN=LPCAT2 PE=1 SV=1

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LGIILLPIRVLLVALILLLAWPFAAISTVCCPEKLTHPITGWRRKITQTALKFLGRAMFF  
SMGFIVAVKGKIASPLEAPVFVAAPHSTFFDGIACVVAGLPSMVSRENAAQVPLIGRLLR  
AVQPVLVSRVDPDSRKNTINEIIKRTTSGGEWPQILVFPEGTCTNRSCLITFKPGAFIPG  
VPVQPVLLRYPNKLDTVTWTWQGYTFIQLCMLTFCQLFTKVEVEFMPVQVPNDEEKNDPV  
LFANKVRNLMAEALGIPVTDHTYEDCRLMISAGQLTLPMEAGLVEFTKISRKLKLDWDGV  
RKHLDEYASIASSSKGGRIIEEFAKYLLKLPVSDVLRQLFALFDRNHDGSIDFREYVIGL  
AVLCNPSNTEEIIQVAFKLFVDVEDGYITEEFSTILQASLGVPDLVSGLFKEIAQGDS  
ISYEYFKSFALKHPEYAKIFTTYLDLQTVFSLPKEVQTPSTASNKVSPEKHEESTSD  
KKDD

>sp|Q9P2E7|PCD10\_HUMAN Protocadherin-10 OS=Homo sapiens GN=PCDH10 PE=2 SV=2

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TPYLDLNLGTGLYVNEKIDREQICKQSPSCVLHLEVLENPLELFQVEIEVLDINDNPP  
SFPEPDLTVEISESATPGTRFPLESAFDPDVGNTSLRDYEITPNSYFSLDVQTQGDGNRF  
AELVLEKPLDREQQAVHRYVLTAVDGGGGGGVGEVGGGGGGAGLPPQQRTGTALLTIRV  
LDSNDNVPAFDQPVYTVSLPENSPPGTLVIQLNATDPDEGQNGEVVYSFSSHISPRAREL  
FGLSPRTGRLEVSGELDYEEVPVYVQAKDLGPNVPAHCKVLVRVLDANDNAPEISF  
STVKEAVSEGAAPGTVALFSVTRDSEENGQVQCELLGDVPFRLKSSFKNYYTIVTEAP  
LDREAGDSYTLTVVARDRGEALSTSKSIQVQVSDVNDNAPRFSQPVDVYVTENNPGA  
YIYAVSATDRDEGANALAYSILECQIQGMSVFTYVSINSENGLYALRSFDYEQLKDFS  
FQVEARDAGSPQALAGNATVNILIVDQNDNAPAIVAPLPGRNGTPAREVLPRSAEPGYLL  
TRVAAVDADDGENARLTYSIVRGEMNLFRMDWRTGELRTARRVPAKRDPQRPYELVIEV  
RDHGQPPLSSTATLVQLVDGAVEPQGGGGSGGGSGEHQRPSSRGGGETSLDLTLILII  
ALGSVSFIFLLAMIVLAVRCQKEKKLNIYTCLASDCCLCCCCGGGGSTCCGRQARARKK  
KLSKSDIMLVQSSNVPSNPAQVPIEESGGFGSHHHNQNYCYQVCLTPESAKTDLMLFKPC  
SPSRSTDTEHNPCGAIVTGYTDQQPDIIISNGSILSNETHQRAELSYLVDRPRRVNSSAF  
QEADIVSSKDSGHGDSEQGDSDHDATNRAQSAGMDLFSNCTEECKALGHSDRCWMPFV  
SDGRQAADYRSNLHVPGMDSVPDTEVFETPEAQPGAERSFSTFGKEKALHSTLERKELDG  
LLTNTRAPYKPPYLTRKRIC

>sp|Q9HCL0|PCD18\_HUMAN Protocadherin-18 OS=Homo sapiens GN=PCDH18 PE=2 SV=3

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PSTVRFRAMQRGNSPLLNVNEDNGEISIGATIDREQLCQKNLNCIEFDVITLPTHEHLQL  
FHIEVEVLDINDNSPQFSRSLPIEISESAAVGTRIPLDSAFDPDVGENSELHTYLSAND  
FFNIEVRTRTDGAKYAE LIVRELDRELKSSYELQLTASDMGVPQRSGSSILKISISDSN  
DNSPAFEQQSYIIQLLENSPVGTLILLDLNATDPDEGANGKIVYSFSSHVSPKIMETFKID  
SERGHLTLFKQVDYEITKSYEIDVQAQDLGPNSIPAHCKIIIKVVDVNDNKPEININLMS  
PGKEEISYIFEGDPIDTFVALVRVQDKDGLNGEIVCKLHGHHGFKLQKTYENNYLILTN  
ATLDREKRSEYSLTVIAEDRGTPSLSTVKHFTVQINDINDNPPHFQRSRYEFVISENNSP

GAYITTVTATDPLDGENGQVITYTILESFILGSSITTYVTIDPSNGAIYALRIFDHEEVSQ  
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TRIRAIDRDSGVNAELSCAIVAGNEENIFIIDPRSCDIHTNVSMDSVPYTEWELSVIIQD  
KGNPQLHTKVLLKCMIFEYAESVTSTAMTSVSQASLDVSMIIISLGAICAVLLVIMVLF  
ATRCNREKKDTRSYNCRVAESTYQHHPKRPSRQIHKGDITLVPTINGTLPISRSHRSPS  
SSPTLERGQMGSRSQSHNSHQSLNSLVTISSNHVPENFSLELTHATPAVEQVSQLLSMLHQ  
GQYQPRPSFRGNKYRSRYALQDMDKFSKDSGRGDSEAGDSYDLGRDSPIDRLLGEG  
FSDLFLTDGRIPAAMRLCTEECRVLGHSDQCWMPPLPSPSSDYRSNMFIPGEEFPTQPQQ  
QHHPQSLEDDAQPADSGEKKKSFSTFGKDSPNEDTGTSTSSLLSEMSSVFQRLPPSL  
DTYSECSEVDRSNSLERRKGPLPAKTVGYPQGVAAWAASTHFQNPTTNCGPPLGTHSSVQ  
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>sp|Q9Y5H6|PCDA8\_HUMAN Protocadherin alpha-8 OS=Homo sapiens GN=PCDHA8 PE=2 SV=1

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PRLFRVASKRHRDLLEVSLQNGILFVNSRIDREELCGRSAECSIHLEIVDRPLQVFHVD  
VEVKDVNDNPPVFRVKDQKLFVSESRMPDSRFPLEGASDADVANSVLTYRLSSHDFML  
DVNSKNDENKLVLRKSLDREDAPAHHLFLTATDGGKPELTGTQVQLLVTVLDVNDNAP  
TFEQSEYEVRIENADNGTTVIKLNASDPDEGANGAISYSFNSLVETMVIDHFSIDRNTG  
EIVIRGNLDFEQENLYKILIDATDKGHPPMAGHCTVLVRILDKNDNVPEIALTSLSLPVR  
EDAQFGTVIALISVNDLDSGANGQVTCSLMPHVPFKLVSTFKNYYSVLDSALDRERVSA  
YELVVTARDGGSPSLWATASLSVEADVNDNAPAFAPQPEYTVFVKENPPGCHIFTVSAR  
DADAQENALVSYSYVERRVGRSLSSYISVHTESGKVYALQPLDHEEELLELLQFQVSARDA  
GVPPLGSNVTLQVFVLDENDNAPALLEPRVGGTGAASKLVPRSVGAGHVVAKVRAVDAD  
SGYNAWLSYELQPAASSPRIPFRVGLYTGEISTTRVLDEADSPRHRLVLVKDHGEPALT  
ATATVLVSLVESGQAPKASSRQSAGVLGPEAALVDNVYLIITAICAVSSLLVLTLLLYTA  
LRCSALPTEGGCRAGKPTLVCCSAVGSWSYSQQPQQRVCSEGGPKTDLMAFSPCLPPDL  
GSVDVGEEQDLNVHDGLKPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQWP  
TVSSATPEPEAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIISIR  
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>sp|Q9Y5H5|PCDA9\_HUMAN Protocadherin alpha-9 OS=Homo sapiens GN=PCDHA9 PE=2 SV=1

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VEVKDINDNPPVPFATQKNLFIAESRPLDSRFPLEGASDADIGENALLTYRLSPNEYFFL  
DVPTSNQQVKPLGLVLRKLLDREETPELHLLLTATDGGKPELTGTQVQLLITVLDNNDNAP  
VFDRTLYTVKL PENVSIGTLVIHPNASDLDEGLNGDIIYSFSSDVSPDIKSKFMDPLSG  
AITVIGHMDFEESRAHKIPVEAVDKGFPPLAGHCTLLVEVDVNDNAPQLTIKTLSPVK  
EDAQLGTVIALISVIDLDADANGQVTCSLTPHVPFKLVSTYKNYYSVLDRALDRESVSA  
YELVVTARDGGSPSLWATARVSVEADVNDNAPAFAPQSEYTVFVKENPPGCHIFTVSAR  
DADAQENALVSYSYVERRLGRSLSSYVSVHAESGKVYALQPLDHEEELLELLQFQVSARDA  
GVPPLGSNVTLQVFVLDENDNAPALLTPMRGTDGAVSEMVLRSVGAGVVVGKVRAVDAD  
SGYNAWLSYELQPETASASIPFRVGLYTGEISTTRALDETDAPRQRLVLVKDHGEPALT  
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LRCSAMPTEGECAPGKPTLVCCSAVGSWSYSQQRRQQRVCSEGGKQKTDLMAFSPGLSPCA  
GSTERTGEPSASSDSTGKPRQPNPDWRYASASLRAGMHSSVHLEEAGILRAGPGGPDQWP  
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>sp|Q9H4Z3|PCIF1\_HUMAN Phosphorylated CTD-interacting factor 1 OS=Homo sapiens GN=PCIF1  
PE=1 SV=1

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SGNGVKKPKIEIPVTPTGQSVSPSPSIPGTPTLKMWGTSPEDKQAALLRPTEVYWDLDI  
QTNVIAKHGPPSEVLPPHPEVELLRSQLILKLRQHYRELCQQREGIEPPRESFNRWMLER  
KVVDKGSDDLPSNCEPVVSPSMFREIMNDIPIRLSRIKFREEAKRLLFKYAEAARLIE  
SRSASPD SRKVVKNVEDTFSWLRKDHASKEDYMDRLEHLRRQCGPHVSAAAKDSVEGI  
CSKIYHISLEYVKRIREKHLAILKENNISEEVEAPEVEPRLVYCYPVRLAVSAPPMPSVE  
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VGLYEGTGLQGSLPVHVFEALHRLFGVSFECFASPLNCYFRQYCSAFPDTDGYFGSRGPC  
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QSRFKRHQLILPAFEHEYRSGSQHICKKEEMHYKAVHNTAVLFLQNDPGFAKWAPTPERL  
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>sp|P35558|PCKGC\_HUMAN Phosphoenolpyruvate carboxykinase, cytosolic [GTP] OS=Homo sapiens  
GN=PCK1 PE=1 SV=3

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DFEAFNARFPGCMKGRMTYVIPFSMGPLGSPLSKIGIELTDSYVVASMRIMTRMGTPV  
LEAVGDGEFVKCLHSVGCPLPLQKPLVNNWPCNPELTLIAHLPRREIISFGSGYGGNSL  
LGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPSACGKTNLAMNPSL  
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AW ESPEGVPIEGIFGGRRPAGVPLVYEALSWQHGVFVGAAMRSEATAAAEHKGKII  
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DQV NADLPCEIEREILALKQRISQM

>sp|Q9Y6V0|PCLO\_HUMAN Protein piccolo OS=Homo sapiens GN=PCLO PE=1 SV=4

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SGSEDEDEFIRNQLKEISSSTESQKKEETKGKGKITAGKHRRLTRKSSTSIDEDAGRHSW  
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SFGSGYSVDSEGSSSTAGETNLFPIPRIGKMGQNGQEPVKQPGVGVLADTEAK  
TVQMGEIKIALKKEMKT DGEQLIVEILQCRNITYKFKSPDHLPDLYVKIYVMN  
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>sp|Q8N165|PDK1L\_HUMAN Serine/threonine-protein kinase PDIK1L OS=Homo sapiens GN=PDIK1L  
PE=1 SV=1

MOVSSQPKYDLIREVGRGSYGVVYEAVIRKTSARVAVKKIRCHAPENVELALREFWALSSI  
KSQHPNVIHLEECILQKDMVQKMSHGSNSSLYLQLVETSLKGEIAFDPRSAYYLWFM  
VDFCDGGDMNEYLLSRKPNRKTNTSFMLQLSSALAF LHKNI IHRDLKPDNILISQTR  
LDTS DLEPTLKVADFGLSKVCSASGQNPEEPVSVNKCFLSTACGTFYMAPEVWEGHY  
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>sp|Q15118|PDK1\_HUMAN [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1,  
mitochondrial OS=Homo sapiens GN=PDK1 PE=1 SV=1

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LDRFYMSRISIRMLLNQHSLLFGGKGKGSPSHRKHIGSINPNCNVLEVIK DGYENARRLC  
DLYYINSPELELEELNAKSPGQPIQV VYVPSHLYHMFELFKNAMRATMEHHANRGVYPP  
IQVHVTLGNEDLTVKMSDRGGGVPLRKIDRLFNMYSTAPRPRVETSRVAPLAGFGYGLP  
ISRLYAQYFQGD LKLYSLEGYGTDAVIYIKALSTDSIERLPVYNKAAWKHYNTNHEAD  
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>sp|Q8WWR9|PDPFL\_HUMAN Pancreatic progenitor cell differentiation and proliferation factor-like protein OS=Homo sapiens GN=C8orf22 PE=3 SV=1  
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>sp|POJD7|PEPA4\_HUMAN Pepsin A-4 OS=Homo sapiens GN=PGA4 PE=1 SV=1  
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TLVDEQPLENYLDMEYFGTIGITPAQDFTVVFDTGSSNLWVPSVYCSSLACTNHNRFNP  
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GILGLAYPSISSSGATPVFDNIWNQGLVSQLDFSVYLSADDQSGSVVIFGGIDSSYYTGS  
LNWVPVTEGYWQITVDSITMNGEAIACAEGCQAIVDTGTSLLTGPTSPIANIQSDIGAS  
ENSDGDMVVSCSAISSLPDIVFTINGVQYPVPPSAYILQSEGSCISGFQGMNLPTESGEL  
WILGDVFIRQYFTVFDNRANQVGLAPVA

>sp|P20142|PEPC\_HUMAN Gastricsin OS=Homo sapiens GN=PGC PE=1 SV=1  
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VTYEPMAYMDAAFYGEISIGTPPNFLVLFDTGSSNLWVPSVYCQSQACTSHSRFNPSSES  
STYSTNGQTFSLQYSGSLTGFFGYDTLTVQSIQVPNQEFGLSENEPGTNFVYAQFDGIM  
GLAYPALSVDEATTAMQGMVQEGALTSPVFSVYLSNQQGSSGGAVVFGGVDSSLYTGQIY  
WAPVTQELYWQIGIEEFLIGGQASGWCSEGCQAIVDTGTSLLTVPQQYMSALLQATGAQE  
DEYQQFLVNCNSIQNLPSLTFIINGVEFPLPPSSYILSNNGYCTVGVEPTYLSSQNGQPL  
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>sp|P17858|PFKAL\_HUMAN ATP-dependent 6-phosphofructokinase, liver type OS=Homo sapiens  
GN=PFKL PE=1 SV=6

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GGENIKQANWLSVSNIIQLGGTIIGSARCKAFTTREGRRAAAYNLVQHGITNLCVIGGDG  
SLTGANIFRSEWGSLLLEELVAEGKISSETTARTYSHLNIAGLVGSIDNDFCGTDMTIGTDS  
ALHRIMEVIDAITTTAQSHQRTFVLEVMGRHCGYLALVSALASGADWLFPEAPPEDGWE  
NFMGERLGETRSGSRLNIIIAEGAIDRNGKPISSSYVKDLVVQRLGFDTRVTVLGHVQ  
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AVRTGISHGHTVYVVHDFEGLAKGQVQEVGWHVDVAGWLGRGSMGLTKRTLPGQLES  
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SDTAVNAAMESCDRIKQSASGTRRVFIVETMGYCGYLATVTGIAVGADAAVVFEDPFN  
IHDLKVNVEHMTKMKTDIQRGLVLRNEKCHDYTTTEFLYNLYSSEGKGVFDCRTNVLGH  
LQQGGAPTDFDRNYGTLKGVKAMLWLSEKLREYVRKGRVFANAPDSACVIGLKKKAVAFS  
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>sp|P08237|PFKAM\_HUMAN ATP-dependent 6-phosphofructokinase, muscle type OS=Homo sapiens  
GN=PFKM PE=1 SV=2

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SLTGADTRSEWSDLLSDLQKAGKITDEEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDS  
ALHRIMEIVDAITTTAQSHQRTFVLEVMGRHCGYLALVTSLSGADWVFIPECPPDDWE  
EHLCRRLSETRTRGSRLNIIIAEGAIDKNGKPITSEDIKNLVVKRLGYDTRVTVLGHVQ  
RGGTPSAFDRILGRMGVEAVMALLEGTPDPACVVSLSGNQAVRLPLMECVQVTKDVTK  
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STVRIGLIQGNRVLVVHDGFEGLAKGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKSFEQ  
ISANITKFNIQGLVIIGGFEAYTGGLLEMEGRKQFDELCIPFVVIPATVSNNVPGSDFSV  
GADTALNTICTTCDRIKQSAAGTKRRVFIETMGGYCYLATMAGLAAGADAAYIFEFPF  
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HMQQGGSPTPFDRNFATKMGAKAMNWMMSGKIKESYRNGRIFANTPDSGCVLGMRKRALVF  
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>sp|Q9BZM1|PG12A\_HUMAN Group XIIA secretory phospholipase A2 OS=Homo sapiens GN=PLA2G12A  
PE=1 SV=1

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GLCQYKCSDGSKPFPYGYKPSPPNGCGSPLFGVHLNIGIPSLTKCCNQHDRCYETCGKS  
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CHYEETDL

>sp|Q96HS1|PGAM5\_HUMAN Serine/threonine-protein phosphatase PGAM5, mitochondrial OS=Homo  
sapiens GN=PGAM5 PE=1 SV=2

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NWDREPLSLINVRKRNVESGEEELASKLDHYKAKATRHIFLIRHSQYHVDGSLEKDRTL  
TPLGREQAELTGLRLASLGLKFNKIVHSSMTRAJETTDIISRHLPGVCKVSTDLLREGAP  
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ALQFPPEGWLRLSLNNGSITHLVIRPNGRVALRTLGDGTGMPPDKITRS

>sp|Q96JS3|PGBD1\_HUMAN PiggyBac transposable element-derived protein 1 OS=Homo sapiens  
GN=PGBD1 PE=1 SV=1

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NLETGSGDTGQASVYIQGQDMHPMVAEYQGVSLQCQLLPGITTCLKCEPPQRPQGNP  
QEVSGPVPHGSAHLQEKNPDKAVVPVFNVPVRSQTLVKTEEETAQAVAAEKWSHLSLTR  
NLGNSAQETVMSLSPMTEEIVTKDRLFKAKQETSEEMEQSSEASGKPNRECAPQIPCST  
PIATERTVAHLNLTLDKDRHPGDLWARMHISSEYAAGDITRKRKKDKARVSELLQGLSFS  
GDSDVEKDNEPEIQPAQKKLVSCFPEKSWTKRDIKPNFSPWSALDSGLLNKSEKLPV  
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EYYCFDKSMCECFDSQFLNGKPIRIGYKIWCGTTTQGYLVWFEPYQEESTMKVEDPD  
GLGGLVMNFADVLLERGQYPYHLCFDSFFTSVKLLSALKKKGVSRATGTIRENRTEKCPL  
MNVEHMKMKRGYDFRIEENNEIILCRWYGDGIISLCSNAVGIIEPVNEVSCCDADNEEI  
PQISQPSIVKVYDECKEGVAKMDQIISKYRVIRIRSKKWYSILVSYMIDVAMNNAWQLHRA  
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>sp|Q8N414|PGBD5\_HUMAN PiggyBac transposable element-derived protein 5 OS=Homo sapiens  
GN=PGBD5 PE=1 SV=3

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SGGFYSNRSLALVMSQARFEKILKYFHVAVFRSSQTTHGLYKVPFLDSLQNSFDSA  
SQTQVLHEPLIDEDPVFIATCTERELRKRKKRKFSLWVRQCSSTGFIQIYVHLKEGGGP  
DGLDALKNKPKLHSMVARSLCRNAAGKNYIIFTGPSITSLTLFEEFEKQGIYCCGLLRAR  
KSDCTGLPLSMLTNPATPPARGQYQIKMKGNSLICWYNKGHFRFLTNAYSPVQQGVIIK  
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YKMSDAYHVKRYSRAQFGERLVRELLGLEDASPTH

>sp|P98160|PGBM\_HUMAN Basement membrane-specific heparan sulfate proteoglycan core protein OS=Homo sapiens GN=HSPG2 PE=1 SV=4

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ADSI SGDDLGS GDLGSGDFQMVYFRALVNFTR SIEYSPQLEDAGSREFREVSEAVVD TLE  
SEY LKIPGDQVVS VFIKELDGWVFVELDV GSEGNADGAQIQEMLLRVISSGSVAS YVTS  
PQGFQFRRLGTV PQFPRACTEAEFACHSYNECVALEYRCDRRPDCRMSDELNCEEPVLG  
ISPTFSLLVETTS LPPRPETT IMRQPPVTHAPQPLLPGSVRPLPCGPQEAA CRNGHCIPR  
DYLCDGQEDCEDG SDELDCGPPPPCEPNEFPCGN GHCAKLWRCDGDFDCEDRTDEANCP  
TKRPEEVC GPTQFRCVSTNMCIPASFHCDEESDCPDRSDEFGCMPPQVVT PPRESIQASR  
GQTVTFTCVAIGVPTPIINWRLNWGHIPSHPRVTVTSEGGRGTLIIRDVKESDQ GAYTCE  
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LNCQHNTGEPQCCKAGFGDAMKATATSCRPCPCPYIDASRRFS DTCFLD TDGQATCD  
ACAPGYTGRRCE SCAPGYEGNPIQPGGKCRPVNQEIVRC DERGSMGTSGEACRCKNNVVG  
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THTTNEGIF SPTGELGFSSFHRLLSGPYFWSLPSRFLGDKVTSYGGELRFTVTQRSQPG  
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SHVAEGQTL DLNCVVPGQAHAQVTWHKRGGSLPARHQTHGSLLRLHQVTPADSGEYVCHV  
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QPIRIEPSSSQVAEGQTL DLNCVVPGQSHAQVTWHKRGGSLPVRHQTHGSLLRLYQASPA  
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AGQAHQVTHHKGGSLLPARHQVHGSRLRLQVTPADSGEYVCRVVGSSGTQEASVLVTI  
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CAVPSDRGTQLRWFKEGGQLPPGHSVQDGVLRINLQDQSCQGTIYICQAHGPWGKAQASAAQ  
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RIAHVELADAGQYRCTATNAAGTTQSHVLLLQALPQISMPQEVVRVPAGSAAVFPCIASG  
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RVVPYFTQTPYSFLPLTIKDAYRKFEIKITFRPDSADGMLLYNGQKRVPGSPTNLNRQ  
PDFISFGLVGGRPEFRFDAGSGMATIRHPTPLALGHFHTVTLRLSLTQGSLLVGDLPVN  
GTSQGFQGLDLNEELYLGGYPDYGAIPKAGLSSGFIGCVRELRIQGEEIVFHDNLNTAH  
GISHCPTCRDRPCQNGGQCHDSESSSYVCVCPAGFTGSRCEHSQALHCHPEACGPDATCV  
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APDGVLLFSGGKSGPVEDFVSLAMVGGHLEFRYELGSLAVLRSAPLALGRWHRVSAER  
LNKDGSLRVNGGRPVLRSSPGKSQGLNLHTLLYLGGVEPSVPLSPATNMSAHFRGCVGEV  
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EHEENPCQLREPCLHGGTCQGTCLCLPGFSGPRCQGSQGHGIAESDWHLEGSGGNDAPG  
QYGAYFHDDGFLAFPGHVSRLPEVPETIELEVRTSTASGLLLWQGVVEGEAGQKDFI  
SLGLQDGLVFRYQLGSGEARLVSEDPINDGEWHRVTALREGRRSIIQVDGEELVSGRSP  
GPNVAVNAKGSVYIGAPDVATLTGGRFSSGITGCVKNLVLSARPGAPPPQPLDLQHRA  
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>sp|Q8TBF2|PGFS\_HUMAN Prostamide/prostaglandin F synthase OS=Homo sapiens GN=FAM213B PE=1  
SV=1

MSTVDLARVGACILKHAHTGEAVELRSLWREHACVVAGLRRFGCVVCRWIAQDLSSLAGL  
LDQHGVRLVGVGPEALGLQEFLDGDYFAGELYLDESKQLYKELGFKRYNSLSILPAALGK  
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>sp|Q8IXK0|PHC2\_HUMAN Polyhomeotic-like protein 2 OS=Homo sapiens GN=PHC2 PE=1 SV=1

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QQALHRQPSTAAQYLQMYAAQQHMLQTAALQQQHLSSAQLQSLAAVQQASLVSNRQG  
STSGSNVSAQAPAQSSINLAASPAQAQLLNRAQSVNSAAASGIAQQAVLLGNTSSPALT  
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TPTQPVLPSLALKPTPGGSQPLPTPAQSRNTAQASPAGAKPGIADSVMEPHKKGDGNSSV  
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PPPQQSRPVLQAEPHPQLASVSPSVALQPSSEAHAMPLGPVTPALPLQCPTANLHKPGGS  
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GNSASSIAGTAPQNGENKPPQAIVKPQILTHVIEGFVIEGAEPFPVGRSSLLVGNLKKK  
YAQGFLPEKLPQQDHTTTTDSMEEPYLVESKEEGAPLKLKCELCGRVDFAYKFKRSKRF  
CSMACAKRYNVGCTKRVGLFHSRSLKQKAGAATHNRRRASKASLPPLTKDTKKQPTGTV  
PLSVTAALQLTHSQEDSSRCSNDSYEEPLSPISASSSTSRRRQGQRDELPLDMHMRDLV  
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KLGPAIKIYARISMLKDS

>sp|Q8NDX5|PHC3\_HUMAN Polyhomeotic-like protein 3 OS=Homo sapiens GN=PHC3 PE=1 SV=1

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IFTPATTVAAVQSDIPVVSSSSSSSCQSAATQVQNLTLRSQKLGVLSSSQNGPPKSTSQT  
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IVSPSHQQYSSLQSSPIPIASPPQMSTSPPAQIPPLPLQSMQSLQVQPEILSQGQVLVQN  
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DECVRMDRTPPPTLSPAAITVGRGEDLTSEHPLLEQVELPAVASVSASVIKSPSDPSHV  
SVPPPPLLLPAATTRSNSTSMHSSIPSIENKPPQAIVKPQILTHVIEGFVIEGLEPFPV  
SRSSLLIEQPVKRPLLDNQVINSVCVQPELQNNTKHADNSSDTEMDMIAEETLEEMDS  
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PSGPDGAAREHILRQLPITYPSAEEDLASHEDSVPSAMTTLRRQSERERERELRDVRIR  
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SAMNIKLGPAIKICARINSLKES

>sp|Q9GZY1|PBOV1\_HUMAN Prostate and breast cancer overexpressed gene 1 protein OS=Homo sapiens GN=PBOV1 PE=2 SV=1

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RSQKATEFIDYSIEQSHHAILTPLQTHLTMKGSSMKCSSLSSEAILFTLTQLTQTLGLE  
CCLLYLSKTIHPQII

>sp|Q9BZA8|PC11Y\_HUMAN Protocadherin-11 Y-linked OS=Homo sapiens GN=PCDH11Y PE=1 SV=1

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ARIDREKLCAGIPRDEHCFYEVEVAILPDEIFRLVKIRFLIEDINDNAPLPATVINISI  
PENSAINSKYTLPAAVDPDVGINGVQNYELIKSQNIFGLDVIETPEGDKMPQLIVQKELD  
REEKDTYVMKVVEDGGFPQRSSTAILQVSVTDTNDNHPVFKETEIEVSIPENAPVGTSV  
TQLHATDADIGENAKIHFSFNSLVSNIRRLFHLNATTGLITIKEPLDREETPNHKLVL  
ASDGGLMPARAMVLNVTDVNDNVPSIDIRYIVNPVNDTVVLSENIPLNTKIALITVTDK  
DADHNGRVTCFTDHEIPFRLRPVFSNQFLLENAAYLDYESTKEYAIIKLLAADAGKPPLNQ  
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APPEFSLDRRTGMLTVVKKLDREKEDKYLFTILAKDNGVPPLTSNVTVFVSIIDQNDNSP  
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ISFDREKQESYTFYVKAEDGGRVSRSSSAKVTINNVVDVNDNKPVFIVPPYNYSYELVLP  
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VLVKANDLGQPDLSFSVVIIVNLFVNESVTNATLINELVRKSEIAPVTPNTEIADVSSPTS  
DYVKILVAAGTITVTVVIFITAVVRCRQAPHLKAAQKNMQNSEWATPNPENRQMIMMK  
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HSDACWMPASLDHSSSSQAQASALCHSPPLSQASTQHHSPVQTIVLCHSPVQTIAL  
CHSPPIQVSALHHSPLVQGTALHHSPPSAQASALCYSPLAQAAAIHSSSLPQVIAL  
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>sp|Q9Y5E9|PCDBE\_HUMAN Protocadherin beta-14 OS=Homo sapiens GN=PCDHB14 PE=1 SV=1

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LCVKDINDHSPTFLDKEILIKISEGTTVGATFLMESAQDLVDGNSNLQNYTISPNSHFYI  
KIPDSSDRKIYPELVLDRALDYEQAELRLTLTAVDGGSPPKSGTTLVLIKVLDINDNAP  
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VNLRSPLDFEVIQSYTINIQTADGGGLSGKCTLLVKVMDINDNPPEVTISSITKRIPENA  
SETLVALFSILDQSDGNRMICSIQDNLPFFLKPTFKNFFTLVSEKALDRESQAEYNIT  
ITVTDLGTPLRKTEYNITVLLSDVNDNAPTFTQTSYTLFVRENNSPALHIGSVSATDRDS  
GTNAQVNYSLPPQDRHLPLASLV SINADNGHLFALRSLDYEALQEFEFVVGATDRGSPA  
LSSEALVRVLVDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKHRLVVLVKDNGEPPRSATATLHV  
LLVDGFSQPYLPLPEAAPAQADSLTVYLVVALASVSSLFLFSVLLFVAVRLCRRSRAA  
SVGRCSVPEGPFPGHLVDVSGTGTLSQSYQYEVCLTGGSGTNEFKFLKPIIPNFQVHDTG  
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>sp|Q9H158|PCDC1\_HUMAN Protocadherin alpha-C1 OS=Homo sapiens GN=PCDHAC1 PE=2 SV=2

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SPLFPAGDVQLHIPEFLTPGARFTLPNAQDDDEGSNGILSYSLSPSQHFRLDMGSRVDGS  
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GSPPLSTRRTITVSVADVNDNTPNFPQPQQLFVAENNGPGASLGRVFAQDPDLGKNGLV  
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SRASDSSLFRISANIGELRTARLVLPDAVKQRVVVVVRDHGDPPLSSSVTLGVLLSNSV  
PQLLPDFEDVWEPGGQLSAQNLYLVIALACISFLFLGCLLFFVCTKLHQSPGCCAQSCCR  
STEDLRYGSKMVSNPCMTSATIDVTTVERLSQTYLYRASLGLGSDNNSLLL RGEYNAADL  
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LRAGPGGPDQQWPTVSSATPEPEAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDK  
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SDQ

>sp|Q9Y5G3|PCDGD\_HUMAN Protocadherin gamma-B1 OS=Homo sapiens GN=PCDHGB1 PE=2 SV=1  
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GRVSYSLASDLEPRELLSYVSVSPQSGVVFAQRAFDHEQLRAFELTLQARDQGSPALSA  
NVSLRVLVGLDNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGHNAWL  
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIF  
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GCFQTGLCSKSGPGVPPNHSEGTLPYSYNLCIASHSAKTEFNSLNLTPEMAPPQDLLCDD  
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>sp|Q9UN71|PCDGG\_HUMAN Protocadherin gamma-B4 OS=Homo sapiens GN=PCDHGB4 PE=2 SV=1  
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VFSQDVYRVLSENVYPGTTVLQVTATDQDEGVNAEITFSFSEASQITQFDLNSNTGEIT  
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GTHIALLKVRDKSRHNGEVTCKLEGDVPFKILTSSRNTYKLVTDVLDREQNPEYNITV  
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PNGQVSYCIMASDLEQRELSSYVSI SAESGVVFAQRAFDHEQLRAFELTLQARDQGSPAL  
SANVSLRVLVDDRNDNAPRVLYPALGPDGSALFDMVPHAAEPGYLVTKVVAVDADSGHNA  
WLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAVRQRLLVAVRDGGQPPLSATATLHL  
VFADSLQEVLPDITDRPDPSDLQAEQFYLVVALALISVLFLVAMILAIALRLRRSSSPA  
SWSCFQPGLCVKSESVPVPPNYSEGTLPYSYNLCVAHTGKTEFNFLKCSEQLSSGQDILCG  
DSSGALFPLCNSELTS HQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQ  
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>sp|Q9Y5G0|PCDGH\_HUMAN Protocadherin gamma-B5 OS=Homo sapiens GN=PCDHGB5 PE=2 SV=1  
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VEIEDINDHTPKFTQNSFELQISESAQPGTRFILEVAEDADIGLSLQKYKLSLNPFSFL  
I I KEKQDGSKYPELALEKTL DREQQSYHRLVLTALDGGHPPLSGTTELRIQVTDANDNPP  
VFNRDVYRVSLRENVPPGTTVLQVSATDQDEGINSEITYSFYRTGQIFSLNSKSGEITTQ  
KKLDFEETKEYSMVVEGRDGGGLVAQCTVEINIQDENDNSPEVTFHSLLEMILENAVPGT

LIALIKIHDQDSGENGEVNCQLQGEVPFKIISSSKNSYKLVTDGTLTREQTPEYNVTITA  
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GQVSYSIMASDLEPLALASYVMSAQSGVFAQRAFDYELRTFELTLQARDQGSPALSA  
NVSLRVLVGRNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVAVDADSGHNAWL  
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLVF  
ADSLQEVLPDITDRPVSPDQAEQLFYLVVALALISVLFLLAVILAVALLRRSSSPA  
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>sp|Q9Y5F9|PCDGI\_HUMAN Protocadherin gamma-B6 OS=Homo sapiens GN=PCDHGB6 PE=2 SV=1

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VVIEDVNDHAPQFDKKEIHLEIFESASAGTRLSLDPATDPDININSIKDYKINSNPYFSL  
MVRVNSDGGKYPELSLEKLLDREEQRSHSLILTALDGGDPPRSATAHIEISVKDTNDNPP  
VFSRDEYRISLSENLPSPVLQVTATDQDEGVNAEINYFRSTAQSTKHMFSLDEKTGM  
IKNNQSFDFEDVERYTMEVEAKDGGGLSTQCKVIIIEILDENDNSPEIIITSLSDQILENS  
PPGMVVALFKTRDLDFGGNGEVRNCNIETDIPFKIYSSSNYYKLVTDGALDTREQTPEYNV  
TIVATDRGKPLSSRSITLYVADINDNAPVFDQTSYVVHVAENPPGASIAQVSASDPD  
LGLNGHISYSIVASDLEPLAVSSYVSVAQSGVFAQRAFDHEQLRAFALTLQARDHGSP  
TLSANVSLRVLVGRNDNAPRVLYPALGPDGSAFFDMVPRSAEPGYLVTKVAVDADSGH  
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATL  
HLVFADNLQEILPDLSDRPVLSDPQAEQLFYLVVALALISVLFLLAVILAIALRLRRSLS  
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>sp|Q9UN70|PCDGK\_HUMAN Protocadherin gamma-C3 OS=Homo sapiens GN=PCDHGC3 PE=1 SV=1

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ALRVQTREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALSASLPPIHIKVL DANDN  
APVFNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV  
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>sp|Q9Y5F7|PCDGL\_HUMAN Protocadherin gamma-C4 OS=Homo sapiens GN=PCDHGC4 PE=2 SV=1

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YDIMVTASDAGNPLSTHRTIFLNI SDVNDNPPSFFQRSHEVFPENNRPGDLLCSLAAS  
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>sp|Q9HC56|PCDH9\_HUMAN Protocadherin-9 OS=Homo sapiens GN=PCDH9 PE=1 SV=2

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TVSDVNDNRPFVKEGQVEVHIPENAPVGTSVIQLHATDADIGSNAEIRYIFGAQVAPATK  
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TVTARDNGTPPLQSAAVITVLDENDNSPKFTHNHFFVSENLPKYSTVGVIITVDAD  
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VTINVM DVNDNSPVVISPPSNTSFKLVPLSAIPGSVVAEVFAVDVDTGMNAELKYTIVSG  
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NGTISLPAELEEQSIGRFDWGPAPPTTFKPNSPDLAKHYKSASPQAFHLKPDTPVSVKK  
HHVIQELPLDNTFVGGCDTLSKRSSTSSDHFSASECSSQGGFKTKGPLHTRQCNSHKS  
SDNIPVTPQKCPSSSTGFHIQENEEESHYESQRRVTFHLPDGSQESCD SGLGDHEPVGSGTLI  
SHPLPLVQPQDEFYDQASPDKRTEADGNSDPNSDGPLGRGLAEATEMCTQECLVLGHSD  
NCWMPPGLGPYQHPKSPLSTFAPQKEWVKDKLVNGHTLTRAWKEDSNRNQFNDRKQYGS  
NEGHFNNGSHMTDIPLANLKS YKQAGGATESPKHEQL

>sp|Q4G0U5|PCDP1\_HUMAN Cilia- and flagella-associated protein 221 OS=Homo sapiens  
GN=CFAP221 PE=1 SV=2

MAVVKTPSRGLKNAKEPFNNASPHLLKNLVEEPKKRKEVPNHLESKVYAKLVNNKVIQA  
RPGIIHFGGYQVEKQHQILHLVNVSNEDTRVHILPPQTKYFEINYVRKEHHLVPGLSLT  
VTVTFSPDEWRYYYDCIRVHCKGDDTLLVPIHAYPVMNSLDFPSFINLSNVLLGESKTYV

IPLQCSCPVDFEFYITLIQSHQAFAIPTSGIIPANGKMTVTIKFTPFQYGTAAIKMQLW  
ISQFNSQPYECVFTGTCYPNMALPLEEFERLNTLSKKVNPPEKAMMHINFHRPPAKPKP  
QKVKEIEYQNLRFVVDLSNPFVAVATVLNQEPGKLKIKELREVLDQGTEISKTRQMKEALF  
EQKVRQDIHEEMENHLKWQVHLGKDPMSFKLKKELTEEWQKACAKYKLDRGDPILDEEFQ  
RLKTEVSHKRVRNQEEKIKEFHPTFDPLINNTWLSRSRAQKRFQQVARKVMIQGRLFNM  
LSAVREMDKESILRKIGQAKQSIAQEANFFKFFLRRISQDDYTSRFSVSPKEVLPFAFPD  
CSPPQDSNELAPDGLGLVPIKSSEVQIKQSYFFNLQVPQLYKIKRYQPFSVHKSSTSyr  
PQKLARALKQGADEVTITITLTPKQDSTTQLSGKTSVLSMKPPEALAMSLDYDPLYVFNp  
NPGLFAVMHPLTYAETLIDYHLCSPKPKYKFTKESRHGSSIPVTQKQFLHHTDIIPGIMHW  
KSFQSLVLSLDPDSKMETTKSCDSFNSFMLPIDVPAILDALPEEDRLETVERELCEQNV  
EVMLTPEMIKVEFPMLNYKDIRKEKEVKDQAQPAEKAGEKLEEMRNLRGKALNTYLILE

>sp|095206|PCDH8\_HUMAN Protocadherin-8 OS=Homo sapiens GN=PCDH8 PE=2 SV=2

MSPVRRWGSPCLFPLQLFSLCWLVSVAQSKTVRYSTFEEDAPGTVIGTLAEDLHMKVSGD  
TSFRLMKQFNSSLLRVREGDGLTVGDAGLDRERLCGQAPQCVLAFDVVSFSQEQFRLVH  
VEVEVRDNDHAPRFPPRAQIPVEVSEGAAGVTRIPLEVPVDEVDGANGLQTVRLAEPHSP  
FRVELQTRADGAQCADLVLLQELDRESQAAYSLELVAQDGGRPPRSATAALSVRVLDAND  
HSPAFPGGAVAEVELAEDAPVGSLLLLDLAADPDEGPNGDVVFAFGARTPPEARLFRLD  
PRSGRLTLAGPVDYERQDQTYELDVRAQDRGPGPRAATCKVIVRIRDVNDNAPDIAITPLA  
APGAPATSPFAAAAAAALGGADASSPAGAGTPEAGATSLVPEGAARESLLVALVSTSDRD  
SGANGQVRCALYGHEHFRLQPAYAGSYLVVTAASLDRERIAEYNLTVAEDRGAPPLRTV  
RPYTVRVGDENDNAPLFTRPVYEVSVRENNPPGAYLATVAARDRDLGRNGQVTVYRLLAE  
VGRAGGAVSTYVSDPATGAIYALRSFDYETLRQLDVRIQASDGGSPQLSSSALVQVRVL  
DQNDHAPVLVHPAPANGSLEVAVPGRTAKDVTVARVQARDADEGANGELAFELQQQEPRE  
AFAIGRRTGEILLTGDLSEPPGRVFRALLVISDGGRPPLTTTATVSFVVTAGGGRGPAA  
PASAGSPERSRPPGSRGLGVSGSVLQWDTPLIVIIVLGSCSTLLAAIIATATTCNRRKKE  
VRKGGALREERPGAAGGASAPGSPEEAARGAGPRPNMFDVLTFTPGTGKAPFGSPAADAP  
PPAVAAAEVPGSEGGSATGESACHFEGQQRLRGAAEPYGASPGFGKEPAPPVAVWKGHS  
FNTISGREAEKFSKGDSGKSDSFNDSDSDISGDALKKDLINHMQSGLWACTAECKILGH  
SDRCWSPSCSGPNAHPSPHPPAQMSTFCKSTSLPRDPLRRDNYYQAQLPKTVGLQSVYEK  
VLHRDYDRTVTLLSPPRPGRLPDLQEIGVPLYQSPPGRYLSPKKGANENV

>sp|Q9BYE7|PCGF6\_HUMAN Polycomb group RING finger protein 6 OS=Homo sapiens GN=PCGF6 PE=1 SV=2

MEGVAVVTAGSVGAAKTEGAAALPPPPPVSPPALTPAPAAGEEGPAPLSETGAPGCSGSR  
PPELEPERSLGRFRGRFEDEDEEELEEEEEEEEEEDMSHFSRLRLEGGRQDSEDEEE  
RLINLSELTPYILCSICKGYLIDATTITECLHTFCKSCIVRHFYYSNRCPKCNIVVHQTQ  
PLYNIRLDRQLQDIVYKLVINLEEREKKQMHDIFYKERGLEVPKPAVPQVPSSKGRSKKV  
LESVFRIPPELMSLLLEFIGANEGTGHFKEKKFVRVSGEATIGHVEKFLRRKMGLDP  
ACQVDIIICGDHLLQYQTLREIRRAIGDAAMQDGLLVLHYGLVVSPLKIT

>sp|Q5JVF3|PCID2\_HUMAN PCI domain-containing protein 2 OS=Homo sapiens GN=PCID2 PE=1 SV=2

MAHITINQYLQQVYEAIDSRDGASCAELVSFKPHVANPRLQMASPEEKQQQVLEPPYDE  
MFAAHLRCTYAVGNHDFIEAYKQCTVIVQSFLRAFQAHKEENWALPVMYAVALDLRVFAN  
NADQQLVKKGKSKVGDMLEKAAELLMSCFRVCASDTRAGIEDSKKWGMLFLVNQLFKIYF  
KINKLHLCPLIRADSSNLKDDYSTAQRVTYKYVGRKAMFDSDFKQAEYLSFAFEHC  
HRSSQKNKRMILYLLPVKMMLGHMPTVELLKKYHLMQFAEVTRAVSEGNLLLLHEALAK

HEAFFIRCGIFLILEKIKIITYRNLFKKVYLLKTHQLSLDAFLVALKFMQVEDVDIDEV  
QCILANLIYMGHVKGYSISHQHQLVVSQNPFPPLSTVC

>sp|Q16822|PCKGM\_HUMAN Phosphoenolpyruvate carboxykinase [GTP], mitochondrial OS=Homo sapiens GN=PCK2 PE=1 SV=3

MAALYRPGRLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGI  
HICDGTEAENTATLTLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTVIVTPSQRDTV  
QLPPGGARGQLGNWMSPADFQRAVDERFPGCMQGRMTMYVLPFSMGVGSPLSRIGVQLTD  
SAYVVASMRIMTRLGTPVLQALGDGDFVKCLHSVGQPLTGQGEVPSQWPCNPEKTLIGHV  
PDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKRYVAA  
AFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDESEGLRAINPENGFFGVAPGTSAT  
TNPAMATIQSNTIFTNVAETSDGGVYWEGIDQPLPPGVTVTSWLGKPWKPGDKEPCAHP  
NSRFCAPARQCPIMDPAWEAPEGVPIDAIIFGGRRPKGVPLVYEAFNWRHGVFVGSAMRS  
ESTAAAEHKGKIIMHDPFAMRPFFGYNFGHYLEHWLSMEGRKGAQLPRIFHVNWFRRDEA  
GHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVPKEGALDLSGLRAIDTTQLFSLPK  
DFWEQEVDIRSYLTEQVNQDLPKEVLAELEALERRVHKM

>sp|Q7Z2X4|PCL11\_HUMAN PTB-containing, cubilin and LRP1-interacting protein OS=Homo sapiens GN=PID1 PE=1 SV=1

MFSLPLSLPLCEDTAFLPSKCCSSHKTIKQARTLIMIFLASGTHFQTMLKSKLNVLTLLK  
EPLPAVIFHEPEAIELCTTTPLMKTRTHSGCKVTYLGKVSTTGMQFLSGCTEKPVIELWK  
KHTLAREDVFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIF  
AWVYREINDLSYQMDCHAVECESKLEAKKLAHAMMEAFRKTFSMSKSDGRIHSNSSEE  
VSQELESDDG

>sp|Q8WW12|PCNP\_HUMAN PEST proteolytic signal-containing nuclear protein OS=Homo sapiens GN=PCNP PE=1 SV=2

MADGKAGDEKPEKSQRAGAAGGPEEEEAEKPVKTKTVSSSNGGESSRSAEKRSAAAAAD  
LPTKPTKISKFGFAIGSQTTTKASAIISIKLGSSKPKETVPTLAPKTLVAAAFNEDEDSE  
PEEMPPEAKMRMKNIGRDTPTSAGPNSFNKGKHGFSNQKLWERNIKSHLGNVHDQDN

>sp|P29122|PCSK6\_HUMAN Proprotein convertase subtilisin/kexin type 6 OS=Homo sapiens GN=PCSK6 PE=1 SV=1

MPPRAPAPGPRPPPRAAAATDTAAGAGGAGGAGGAGGPGFRPLAPRPWRWLLLLALPAA  
CSAPPPRPVYTNHWAVQVLGGPAEADRVAAGHYLNLGQIGNLEDYYHFYHSTFKRSTL  
SSRGPHFTLRMDPQVKWLQQQEVKRRVKRQVRSDPQALYFNDPIWSNMWYLHCGDKNSRC  
RSEMNVAWKRGTGKNVVVITLDDGIERNHPDLAPNYDSYASYDVNGNDYDPSPRYDA  
SNENKHGTRCAGEVAASANSYCIVGIAYNKIGGIRMLDGDVTDVVEAKSLGIRPNYID  
IYSASWGPDDDGKTVDPGRLAKQAFEYGIKKGRQGLGSIFVWASNGGREGDYCSCDGY  
TNSIYTISVSSATENGYKPWYLEECATLATTYSSGAFYERKIVTTDLRQRCTDGHTGTS  
VSAPMVAGIIALALEANSQLTWRDVQHLLVKTSRPAHLKASDWKVGAGHKVSHFYGFGL  
VDAEALVVEAKKWTAVPSQHMCVAASDKRPRSIPLVQVLRRTALTSAEHSQDQVVYLE  
HVVVRTSISHPRRGDLQIYLVSPSGTKSQLLAKRLDLNEGFTNWEFMTVHCWGEKAEG  
QWTLEIQDLPSQVRNPEKQGKLEWSLILYGTAEHPYHTFSAHQSRSRMLELSAPELEPP  
KAALSPSQVEVPEDEEDYTAQSTPGSANILQTSVCHPECGDKGCDGNADQCLNCVHFSL  
GSVKTSRKCVSVCPGLGYFGDTAARRCRRCHKGCETCSSRAATQCLSCRRGFYHHQEMNTC  
VTLCAPAGFYADESQKNCLKCHPSCKKCVDEPEKCTVCKEGFSLARGSCIPDCEPGTYFDS  
ELIRCGECHHTCGTCVGPREECIHCAKNFHFHDWKCPACGEGFYPEEMPGLPHKVCRR

CDENCLSCAGSSRNC SRCKTGFTQLGTSCITNHTCSNADETFCEMVKSNRLCERKLFIQF  
CCRTCLLAG

>sp|Q9H6A9|PCX3\_HUMAN Pecanex-like protein 3 OS=Homo sapiens GN=PCNX3 PE=1 SV=2

MGSQVLQILRQG VASLTGGWFFDPHQSTFSNCFHLYVWIFLLIFPFLLYMVLPPSLMVA  
GVYCLVVAVIFATIKTVNYRLHAMFDQGEIVEKRSSTMGELEEEPAQGDSNPPRDPGVEM  
TVFRKVSSTPPVRCS SQHSVFGFNQVSELLPRMEDSGPLRDIKELVREQGSNNVIVTSAD  
REMLKLSSQEKLIGDLPQTTPGAVDPDSLASTDSSEPSPLAGDGAPWSGSSMADTPMSPL  
LKGSLSQELSKSFLTLTQPDRALVRTSSRREQRRGAGGYQPLDRRGSGEPTPQKAGSSDS  
CFSGTDRETLSSFKSEKTNSTHLDSPPGGPAEGSDTDPPEAEPLASPDAGVPSDDTLR  
SFDTVIGAGTPPGAELLVVRPKDLALLRPSKRQPPLRRHSPPGRAPRRPLLEGGGFFE  
DEDTSEGESELPASSLRQRRYSTDSSTSCYSPESSRGAAGGPRKRRAPHGAEETAV  
PPKRPYGTQRTPTASAKTHARVLSMDGAGGDVLRPPLAGCKAELEAQVGVEQAASEPVV  
LPAEARRGPAANQPGWRGELQEEGAVGGAAEETGRRDRSSSVRRTQAIRRRHNAGSNPTP  
PASVMGSPSSLQEAQRGRAASHSRALTLPSALHFASSLLLTRAGANVHEACTFDDTSEG  
AVHYFYDESGVRRSYTFGLAGGGYENPVGQQGEQTANGAWDRHSHSSSFHSADVPEATGG  
LNLLQPRPVVLQGMQVRRVPLEIPEEQTLMEEAPPAQHSYKYWLLPGRWTSVRYERLAL  
LALLDRTRGVLENIFGVGLSSLVAFGLYLLLLKGFFTDIWFVQFCLVIASCQYSLLKSVQ  
PDAASPMHGHNNWIAYSRPVYFCICLLIWLLDALGSAQPFPPVSLYGLTLFSASFFFC  
RDVATVFTLCFPFVFLGLLPQVNTCLMYLLEQIDMHGFGGTAATSPLTAVFSLSRSLA  
AALLYGFCLGAIKTPWEQHPVLFVFCGLLVALSYHLSRQSSDPTVLWSLIRSKLFPE  
LEERSLETARAEPDPLPDKMRQSVREVLHSDLVMCVVI AVLTF AISASTVFIALKSVLG  
FVLYALAGAVGFFTHYLLPQLRKQLPWFCLS QPVLPLEYSQYEVGAAQVMWFEKLYAG  
LQCVEKYL IYPAVVLNALTVD AHTVVSHPDKYCFYCRALLMTVAGLKLLRS AFCCPPQY  
LTLAFTVLLFHFDPRLSQGFLLDYFLMSLLCSKLWDL LYKLRFVLTYIAPWQITWGS  
AFHAFAPFAVPHSAML FVQALLSGLFSTPLNPLLGS AVFIMSYARPLKFWERDYNTKRV  
DHSNTRLVTQLDRNPGADDNNLNSIFYEHLTRSLQHTLCGDLVLGRWGNYPGDCFVLAS  
DYLNALVHLIEVGNGLVTFQLRGLEFRGT YCQQREVEAITEGVEEDEGCCCEPGHLPRV  
LSFNAAFGQRWLAW EVTASKYVLEGYSISDNNAASMLQVFDLRKILITYYVKSIIYYV  
SRSPKLEVWLSHEGITAALRPVRVPGYADSDPTFSLSVDEYDLRLSGLSLPSFC AVHLEW  
IQYCASRRSQPVDQDWSPLVTLCFGLCVLGRRALGTASHSMSASLEPFLYGLHALFKGDF  
RITSPRDEWVFADMDLLHRV VAPGVRMALKLHQDHFTSPDEYEEPAALYDAIAANEERL  
VISHEGDPAWSAILSNTPSLLALRHVLDDASDEYKIIMLNRRHLSFRVIKVNRECVRLW  
AGQQQELVFLRNRNPERGSIQNAKQALRNMINSSCDQPLGYPIYVSPLTTSLAGSHPQL  
RALWGGPISLGAIAHWLLRTWERLHKGCGAGCNSGGNVDDSDCSGGGGLTSLSNPPVAH  
PTPENTAGNGDQPLPPGPWGPRSSLSGSGDGRPPPLLQWPPPRLPGPPASP IPTEGPRT  
SRPPGPGLSSEGPSGKWSLGGRKGLGGSDGEPASGSPKGGTPKSQAPLDLSLSLSLSPD  
VSTEASPPRASQDIPCLDSSAPESGTPMGALGDWPAPIEERESPAAQPLLEHQY

>sp|Q9Y5K3|PCYT1B\_HUMAN Choline-phosphate cytidylyltransferase B OS=Homo sapiens GN=PCYT1B  
PE=1 SV=1

MPVVTDAESETGIPKSLSNEPPSETMEEIEHTCPQPRLLTAPAPFADETNCQCQAPHE  
KLTI AQARLGTPADRPVRVYADGIFDLFHS GHARALMQAKTLFPNSYLLVGVCSDDLTHK  
FKGFTVMNEAERYEALRHC RYVDEVIDRDPWTLTPEFLEKHKIDFVAHDDIPYSSAGSDD  
VYKHIKEAGMFVPTQRTEGISTSDIITRIVRDYDVYARRNLQRGYTAKELNVSFINEKRY  
RFQNVQDKMKEKVKVNEERSKEFVNRVEEKSHDLIQWEEKSREFIGNFLELFGPDGAWK

QMFQERSSRMLQALSPKQSPVSSPTRSRSPSRSPSPTFSWLPLKTSPPSSPKAASASISS  
MSEGEDEK

>sp|P07237|PDIA1\_HUMAN Protein disulfide-isomerase OS=Homo sapiens GN=P4HB PE=1 SV=3

MLRRALLCLAVAALVRADAPEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALA  
PEYAKAAGKLKAEGSEIRLAKVDATEESDLAQYGVRGYPTIKFFRNGDTASPKKEYTAGR  
EADDIVNWLKRTGPAATTLPDGAAAESLVESSEVAVIGFFKDVEDSAKQFLQAAEAID  
DIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNFEGEVTKENLLDFIKHNQLPLVIEF  
TEQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSHTDNQR  
ILEFFGLKKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRFLEGKIKPHLMSQEL  
PEDWDKQPVKVLVGKNFEDVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHENI  
VIAKMDSTANEVEAVKVHSFPTLKFPPASADRTVIDYNGERTLDGFKKFLESGGQDGAGD  
DDDLEDLEEAEEDMEEDDDQKAVKDEL

>sp|Q15119|PDK2\_HUMAN [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2,  
mitochondrial OS=Homo sapiens GN=PDK2 PE=1 SV=2

MRVWVALLKNASLAGAPKYIEHFSKFSPLSMKQFLDFGSSNACEKTSFTFLRQELPVR  
LANIMKEINLLPDRVLSTPSVQLVQSWYVQSLLDIMEFLDKDPEDHRTLSQFTDALVTIR  
NRHNDVPTMAQGVLEYKDTYGDDPVSNQNIQYFLDRFYLSRISIRMLINQHTLIFDGST  
NPAHPKHIGSIDPNCNVSEVVKDAYDMAKLLCDKYMASPDLEIQEINAANSKQPIHMVY  
VPSHLYHMLFELFKNAMRATVESHESSLILPPIKVMVALGEEDLSIKMSDRGGGVPLRKI  
ERLFSYMYSTAPTPQGTGGTPLAGFGYGLPISRLYAKYFQGDQLFSMEGFGTDAVIYL  
KALSTDSVERLPVYNKSAWRHYQTIQEAGDWCVPSTEPKNTSTYRVS

>sp|Q15120|PDK3\_HUMAN [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3,  
mitochondrial OS=Homo sapiens GN=PDK3 PE=1 SV=1

MRLFRWLLKQVPVKQIERYSRFSPLSIKQFLDFGRDNACEKTSYMFRLKELPVRLANT  
MREVNLLPDNLLNRPVGLVQSWYMQSFLELLEYENKSPEDPQVLNDFLQVLKVRNRHN  
DVVPTMAQGVIEYKEKFGDFPFISTNIQYFLDRFYTNRISFRMLINQHTLLFGGDTNPVH  
PKHIGSIDPTCNVADVVKDAYETAKMLCEQYYLVAPELEVEEFNAKAPDKPIQVVVYPSH  
LFHMLFELFKNSMRATVELYEDRKEGYPAVKTLVTLGKEDLSIKISDLGGGVPLRKIDRL  
FNYMYSTAPRPSLEPTRAAPLAGFGYGLPISRLYARYFQGDCLKLYSMEGVGTDAVIYLKA  
LSSESFERLPVFNKSARWHYKTTPEADDWSNPSSEPRDASKYKAKQ

>sp|P50479|PDLI4\_HUMAN PDZ and LIM domain protein 4 OS=Homo sapiens GN=PDLIM4 PE=1 SV=2

MPHSVTLRGPSPWGFRVLVGGRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGESTELM  
THLEAQNRIGCHDHLTSLVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPS  
GTGTGPEDGRPSLGSPYQPPRFVPVPHNGSSEATLPAQMSTLHVSPPPSADPARGLPRSR  
DCRVDLGSEVYRMLREPAEPVAAEPKQSGSFRYLQGMLEAGEGGDWPGPGGPRNLKPTAS  
KLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFCMSDCGLNLKQRGYFFLDERL  
YCESHAKARVKPPEGYDVVAVYPNAKVELV

>sp|Q9NR12|PDLI7\_HUMAN PDZ and LIM domain protein 7 OS=Homo sapiens GN=PDLIM7 PE=1 SV=1

MDSFKVVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGS  
LTHIEAQNKIRACGERLSLGLSRAQPVQSKPQKASAPAADPPRYTFAPSVSLNKTARPFQ  
APPPADSAPQQNGQPLRPLVPDASKQRLMENTEDWRPRPGTGQSRSFRI LAHLTGTEFMQ  
DPDEEHLKSSQVPRTEAPAPASSTPQEPWPGPAPTSPTRPPWAVDPAPAERYAPDKTS  
TVLTRHSQPATPTPLQSRYSIVQAAAGGVPGGGSNNGKTPVCHQCHKVIRGRYLVALGHA  
YHPEEFVCSQCGKVLEEAGGFEEKGAIFCPPCYDVRYAPSCAKCKKKITGEIMHALKMTW



HVHCFTCAACKTPIRNRAFYMEEGVPCERDYEKMFGTKCHGCDFKIDAGDRFLEALGFS  
WHDTCFVCAICQINLEGKTFYSSKDRPLCKSHAFSHV

>sp|Q9NTI5|PDS5B\_HUMAN Sister chromatid cohesion protein PDS5 homolog B OS=Homo sapiens  
GN=PDS5B PE=1 SV=1

MAHSKTRTNDGKITYPGKVEISDKISKEEMVRRLKMVVKTFMDMDQDSEEEKELYLNLA  
LHLASDFFLKHPDKDVRLLVACCLADIFRIYAPEAPYTSPDKLKDIFMFITRQLKGLEDT  
KSPQFNRYFYLLENIAWVKSYNICFELEDSNEIFTQLYRTLFSVINNGHNQKVHMHMVDL  
MSSIICEGDTVSQELLDTVLVNLVPAHKNLNKQAYDLAKALLKRTAQAIIEPYITNFFNQV  
LMLGKTSISDLSEHVFDLILELYNIDSHLLSVLPQLEFKLSNDNEERLQVVKLLAKMF  
GAKDSELASQNKPLWQCYLGRFNDIHVPIRLECVKFASHCLMNHDPDLAKDLTEYLKVRSH  
DPEEAIIRDVIVSIVTAAKKDILLVNDHLLNFVRERTLDRWRVRKEAMMGLAQIYKKYA  
LQSAAGKDAKQIAWIKDKLLHIYYQNSIDRLLVERIFAQYMPHNLETTERMKCLYYL  
YATLDLNAVKALNEMWKCQNLLRHQVKDLDLIKQPKTDASVKAIFSKVMVITRNLPDPG  
KAQDFMKKFTQVLEDEKIRKQLEVLVSPTCSCQAEGCVREITKKLGNPKQPTNPFLEM  
IKFLLERIAPVHIDTESISALIKQVNKSIDGTADDEDEGVPTDQAIRAGLELLKVLSTH  
PISFHSAETFESLLACLKMDDEKVAEALQIFKNTGSKIEEDFPHIRSALLPVLHHKSKK  
GPPRQAKYAIHCIAHIFSSKETQFAQIFEPLHKS LDPSNLEHLITPLVTIGHIALAPDQ  
FAAPLKS LVATFIVKDLLMNDRLPGKTTKLWVPDEEVSPETMVKIQA IKMMVRWLLGMK  
NNHSGSGTSTLRLLTTILHSDGDLTEQGKISKPDMSRLRLAAGSAIVKLAQEPYHEIIT  
LEQYQLCALAINDECYQVRQVFAQKLHKGLSRLRPLEYMAICALCAKDPVKERRAHARQ  
CLVKNINVRREYLKQHAHVSEKLLSLLPEYVVPYTIHLLAHDPDYVKVQDIEQLKDVKEC  
LWFVLEILMAKNENNSHAFIRKMVENIKQTKDAQGPDDAKMNEKLYTVCDAVAMNIIMSKS  
TTYSLSPKDPVLPARFFTQPDKNFSNTKNYLPPPEMKSFFTPGPKTTNVLGAVNKLSS  
AGKQSQTKSSRMETVSNASSSSNPSPGRIKGRDSSSEMDHSENYTMSPLPGKSDK  
RDDS DLVRSELEKPRGRKTPVTEQEEKLGMDLTKLVQE QPKGSQRSRKRGTASESD  
EQQWPEEKRLKEDILENEDEQNSPPKKGKGRPPKPLGGGTPKEPTMKTSSKGSKKKSG  
PPAPEEEEEERQSGNTEQKSKSKQHRVSRRAQQRAESPESAIESTQSTPQKGRGRPSK  
TPSPSQPKKNVRVGRSKQAATKENDSSEVDVFQGS SPVDDIPQEETEEEEVSTVNRRR  
SAKRERR

>sp|P01213|PDYN\_HUMAN Proenkephalin-B OS=Homo sapiens GN=PDYN PE=1 SV=1

MAWQGLVLAACLLMPSTTADCLSRCSLCAVKTQDGPKPINPLICSLQCQAALLPSEWE  
RCQSFLSFFTPTSLGLNDKEDLGSKSVGEGPYSELAKLSGSFLKELEKSKFLPSISTKEN  
TLKSLEEKLRGLSDGFREGAESELMRDAQLNDGAMETGTLYLAEDPKEQVKRYGGFLR  
KYPKRSSSEVAGEGDGSMGHEDLYKRYGGFLRRIRPKLWDNQKRYGGFLRRQFKVVTRS  
QEDPNAYSGELFDA

>sp|Q96S96|PEBP4\_HUMAN Phosphatidylethanolamine-binding protein 4 OS=Homo sapiens  
GN=PEBP4 PE=1 SV=3

MGWTMRLVTAALLGLMMVVTGDEDENSPCAHEALLDEDTLFCQGLEVFYPELGNIGCKV  
VPDCNNYRQKITSWMEPIVKFPGAVDGATYILVMVDPDAPSRAEPRQRFWRHWLVTDIKG  
ADLKKGKIQQELSAYQAPSPPAHSGFHRYQFFVYLQEGKVISLLPKENKTRGSWKMDRF  
LNRHFLGEPEASTQFMTQNYQDSPTLQAPRERASEPKHKNQAEIAAC

>sp|P16284|PECA1\_HUMAN Platelet endothelial cell adhesion molecule OS=Homo sapiens  
GN=PECAM1 PE=1 SV=1

MQPRWAQGATMWLGVLTLTLLCSSLEGQENSFTINSVDMKSLPDWTVQNGKNLTLQCFAD

VSTTSHVKPQHQLFYKDDVLFYNISSMKSTESYFIPEVRIYDSGTYKCTVIVNNKEKTT  
AEYQLLVEGVSPRVTLDKKEAIQGGIVRVNCSVPPEEKAPIHFTIEKLELNEKMKVCLKRE  
KNSRDQNFVILEFPVEEQDRVLSFRCQARIISGIHMQTSESTKSELVTVTESFSTPKFHI  
SPTGMIMEGAQLHIKCTIQVTHLAQEFPEII IQKDKAIVAHNRHGNKAVYSVMAMVEHSG  
NYTCKVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSCSIPGAPPANFTIQ  
KEDTIVSQTDFTKIASKSDSGTYICTAGIDKVVKKSNTVQIVVCEMLSQPRISYDAQFE  
VIKQGTIEVRCESISGTLPISYQLLKTSKVLNSTKNSNDPAVFKDNPTEDVEYQCVADN  
CHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVESGEDIVLQCAVNEGSGPITYKFYREK  
EGKPFYQMTSNATQAFWTKQKASKEQEGEYYCTAFNRANHASSVPRSKILTVRVILAPWK  
KGLIAVVIIGVIIALLIIAAKCYFLRKAKAKQMPVEMSRPAVPLNSNNEKMSDPNMEAN  
SHYGHNDVVRNHAMKPINDNKEPLNSDVQYTEVQVSSAESHKDLGKKDTETVYSEVRKAV  
PDAVESRYSRTEGSLDGT

>sp|Q96FA3|PELI1\_HUMAN E3 ubiquitin-protein ligase pellino homolog 1 OS=Homo sapiens  
GN=PELI1 PE=1 SV=2

MFSPDQENHPSKAPVKYGELIVLGYNGLPNGDRGRKSRFALFKRPKANGVKPSTVHIA  
CTPQAAKAISNKDQHSISYTLSTRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVTDTVPG  
SQSNSDTQSVQSTISRACRIICERNPPFTARIYAAGFDSSKNIFLGEKAAKWKTSDBGQM  
DGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQQRGKMVEIETNQLQD  
GSLIDLCGATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFNTLAFPSMKRKDVV  
DEKQPWVYVLCNGHVHGYHNWGNKEERDGDRECPMCRSVGPYVPLWLGCEAGFYVDAGPP  
THAFSPCGHVCSEKTTAYWSQIPLPHGTHTFHAACPFAHQLAGEQGYIRLIFQGGLD

>sp|Q13608|PEX6\_HUMAN Peroxisome assembly factor 2 OS=Homo sapiens GN=PEX6 PE=1 SV=2

MALAVLRVLEPFTETPPLAVLLPPGGPWAAELGLVLALRPAGESPAGPALLVAALEGP  
DAGTEEQGGPPQLLVSRALLRLLALGSGAWVRARAVRRPPALGWALLGTS LGPGLPRV  
GPLLVRRGETLPVPGPRVLETRPALQGLLPGTRLAVTELGRARLCPESGDSSRPPPPP  
VVSSFAVSGTVRRLQGVLGGTGDSLGVSRSLRGLGLFQGEWVWAQARESSNTSQPHLA  
RVQVLEPRWDLSDRLGPGSGPLGEPLADGLALVPATLAFNLGCDPLEMGELRIQRYLEGS  
IAPEDKGSCSLLPGPPFARELHIEIVSSPHYSTNGNYDGVLYRHFQIPRVVQEGDVLVCP  
TIGQVEILEGSPEKLPRWRMFFKVKKTVEAPDGPASAYLADTTHTSLYMGSTLSPVP  
WLPSEESTLWSSLSPGLEALVSELCAVLKPRLQPGGALLTGTSSVLLRGPPGCGKTTVV  
AAACSHLGLHLLKVPCCSLCAESSGAVETKLQAFSRARRCPAVLLLTAVDLLGRDRDG  
LGEDARVMAVLRHLLLNEDPLNSCPPLMVVATTSRAQDLADVQTAFPHELEVPALEGG  
RLSILRALTAHLPLGQEVNLAQLARRCAGFVVGDLIALTHSSRAACTRIKNSGLAGGLT  
EEDEGELCAAGFPLLAEDFGQALEQLQTAHSQAVGAPKIPSVSWHDVGGLEVKKEILET  
IQLPLEHPELLSLGLRRSGLLLHGPPGTGKTLLAKAVATECSLTFLSVKGPELINMYVGQ  
SEENVREVFARARAAAPCIIFDELDLAPSRGRSGDGGVMDRVVSQLLAELDGLHSTQ  
DVFVIGATNRPDLLDPALLRPGFRDKLVFVGANEDRASQLRVLSAITRKFKLEPSVSLVN  
VLDCPPQLTGADLYSLCSDAMTAALKRRVHDLEEGLEPGSSALMLTMEDLLQAAARLQP  
SVSEQELLRYKRIQRKFAAC

>sp|Q99471|PFD5\_HUMAN Prefoldin subunit 5 OS=Homo sapiens GN=PFDN5 PE=1 SV=2

MAQSINITELNLPQLEMLKNQLDQEVEFLSTSIAQLKVVQTKYVEAKDCLNVLNKSNEGK  
ELLVPLTSSMYVPGKLHDVEHVLIDVGTGYVEKTAEDAKDFFKRKIDFLTKQMEKIQPA  
LQEKHAMKQAVMEMMSQKIQLTALGAAQATAKA

>sp|Q6PCE3|PGM2L\_HUMAN Glucose 1,6-bisphosphate synthase OS=Homo sapiens GN=PGM2L1 PE=1 SV=3

MAENTEGDLNSNLLHAPYHTGDPQLDTAIGQWLRWDKNPKTKEQIENLLRNGMNKELRDR  
LCCRMFTGTAGLRSAMGAGFCYINDLTVIQSTQGMKYLERCFSDFKQRGFVVGVDTRGQ  
VTSSCSSQRLAKLTAAVLLAKDVPVYLFSTRYVPTPFVPYAVQKLKAVAGVMITASHNRKE  
DNGYKVVWETGAQITSPHDKEILKCIIECEPWNWSWNDNLVDTSPDKRDPLQDICRRYM  
EDLKKICFYRELNSKTTLKFFVHTSFHGVGHYVQLAFKVFQFKPPIPVPEQKDPDPDFST  
VKCPNPEEGESVLESLRLAEKENARVVLATDPDADRLAAELQENGCKVFTGNELAAL  
FGWWMFDCWKKNSRNADVKNVYMLATTVSSKILKAIKALKEGFHFEETLPQFKWIGSRII  
DLLENGKEVLFQFEESIGFLCGTSVLDDKGVSAVVVAEMASYLETMNITLKQQLVKVYE  
KYGYHISKTSYFLCYEPPTIKSIFERLRNFDSPKEYPKFCGTFAILHVRDVTGTDSSQP  
NKKSVLPVSKNSQMITFTFQNGCVATLRSTGTEPKIKYYAEMCASPDQSDTALLEEELKK  
LIDALIENFLQPSKNGLIWRVS

>sp|A6NFU8|PGPIL\_HUMAN Pyroglutamyl-peptidase 1-like protein OS=Homo sapiens GN=PGPEP1L PE=2 SV=4

MKPRTLVELSKLGLGNETVVQLRTLELPVDYREARRVTGIWEDHQPQLVVHVGMDTAAK  
AIILEQSGKNQGYRDADIRSFWEPPGVCLPGSPDVLESGVCMKAVCKRVAVEGVDVIFSR  
DAGRYVCDYTYLHSLHHGKGAALIHVPPLSRGLPASLLGRALRVIIQEMLEEVGKPKHR  
AQFEENSTMVLPKGN

>sp|Q9NXJ5|PGPI\_HUMAN Pyroglutamyl-peptidase 1 OS=Homo sapiens GN=PGPEP1 PE=1 SV=1

MEQPRKAVVVTGFGPFGEHTVNASWIAVQLEKLGLGDSVDLHVYEIPVEYQTVQRLIPA  
LWEKHSPQLVVHVGVSQMATTVTLEKCGHNKGKGLDNCRFCPGSQCCVEDGPESIDSII  
DMDAVCKRVTTLGLDVSVTISQDAGRYLCDFTYYTSLYQSHGRSAFVHVPPLGKPYNADQ  
LGRALRAIIIEMLDLLEQSEGKINYCHKH

>sp|Q32NB8|PGPS1\_HUMAN CDP-diacylglycerol--glycerol-3-phosphate  
phosphatidyltransferase, mitochondrial OS=Homo sapiens GN=PGS1 PE=2 SV=1

MAVAAAAAGPVFWRRLGLLPGRPGLAALLGRLSDRLGRNRDRQRRRSPWLLAPLLSP  
AVPQVTSPPCCLCEPVGHRFQWIRNLVPEFGVSSSHVRVLSSPAEFFELMKGQIRVAKRR  
VVMASLYLGTGPLEQELVDCLESTLEKSLQAKFPSNLKVSILLDFTRGSRGRKNSRTMLL  
PLRRFPPEQVRVSLFHTPHLRGLRLLIIPERFNETIGLQHIKVYLFDNSVILSGANLSDS  
YFTNRQDRYVFLQDCAEIAFFTELVDVAVGDVSLQLQGDDTVQVVDGMVHPYKGDRAEYC  
KAANKRVMDVINSARTRQMLHAQTFHSNSLLTQEDAAAAGDRRPAPDTWIYPLIQMKPF  
EIQIDEIVTETLLTEAERGAKVYLTGTFNLQAYMDLVLGTRAQYQILLASPEVNGFFG  
AKGVAGAIPAAYVHIERQFFSEVCSLGGQERVQLQEYWRRGWTFHAKGLWLYLAGSSLPC  
LTLIGSPNFGYRSVHRDLEAQIAIVTENQALQQQLHQEQEQLYLRSGVVSSATFEQPSRQ  
VKLWVKMVTPLIKNFF

>sp|O75594|PGRP1\_HUMAN Peptidoglycan recognition protein 1 OS=Homo sapiens GN=PGLYRP1 PE=1 SV=1

MSRRSMLLAWALPSLLRLGAAQETEDPACCSPIVPRNEWKALASECAQHLSLPLRYVVVS  
HTAGSSCNTPASCQQQARNVQHYHMKTLGWCDVGYNFLIGEDGLVYEGRGNFTGAHSGH  
LWNPMSIGISFMGNYMDRVPTPQAIRAAQGLLACGVAQGALRSNYVLKGRDVRQRTLSPG  
NQLYHLIQNWPHYRSP

>sp|Q92696|PGTA\_HUMAN Geranylgeranyl transferase type-2 subunit alpha OS=Homo sapiens GN=RABGGTA PE=1 SV=2

MHGRLKVKTSEEQAEAKRLEREQKLKLYQSATQAVFQKRQAGELDESVELETSQILGANP  
DFATLWNCRREVLQQLETQKSPEELAALVKAELGFLESCLRVNPKSYGTWHHRCWLLGRL  
PEPNWTRELELCARFLEVDERNFHCWDYRRFVATQAAVPPAEELAFDSDLITRNFSNYSS  
WHYRSCLLPQLHPQPDSPGQGRLPEDVLLKELELVQNAFFDTPNDQSAWFYHRWLLGRAD  
PQDALRCLHVSDEACLTVSFSRPLLVGSRMEILLMVDDSPILIVEWRTPDGRNRPSHVW  
LCDLPAASLNDQLPQHTFRVIWTAGDVQKECVLLKGRQEGWCRDSTTDEQLFRCELSVEK  
STVLQSELESCKELQELEPENKWCLLTIILLMRALDPLLYEKETLQYFQTLKAVDPMRAT  
YLDDLRSKFLENSVLKMEYAEVRVLHLAHKDLTVLCHLEQLLLVTDLSDSHNRLRTLPP  
ALAALRCLEVLQASDNAIESLDGVTNLPRLQELLLCNNRLQQPAVLQPLASCPRLVLLNL  
QGNPLCQAVGILEQLAELLPSVSSVLT

>sp|P53609|PGTB1\_HUMAN Geranylgeranyl transferase type-1 subunit beta OS=Homo sapiens  
GN=PGGT1B PE=1 SV=2

MAATEDERLAGSGEGERLDFLRDRHVRFFQRCQLQVLPERYSSLETSRLTIAFFALSGLDM  
LDLSDVNVKDDIIIEWIYSLQVLPTEDRSNLNRGFRGSSYLGIPIFNPSKAPGTAHPYDSG  
HIAMTYTGLSCLVILGDDLSRVNKEACLAGLRALQLEDGSFCVPEGSENDMRVVCASC  
ICYMLNNWSGMDMKAITIYIRRSMSYDNGLAQGAGLESHGGSTFCGIASLCLMGKLEEVF  
SEKELNRIKRWCIIMRQQNGYHGRPNKPVDTCYSFVWGATLKLKIFQYTNFEKNRNYILS  
TQDRLVGGFAKWPDSHPDALHAYFGICGLSLMEESGICKVHPALNVSTRTSERLLDLHQS  
WTKDKSKQCSNVHIST

>sp|P53611|PGTB2\_HUMAN Geranylgeranyl transferase type-2 subunit beta OS=Homo sapiens  
GN=RABGGTB PE=1 SV=2

MGTPQKDVIIKSDAPDTLLLEKHADYIASYGSKKDDYEYCMSEYLRMSGIYWGLTVMDLM  
GQLHRMNREEILAFIKSCQHECGGISASIGHDPHLLYTLASVQILTLYDSINVIDNVKVV  
EYVKGKQKEDGSFAGDIWGEIDTRFSFCAVATLALLGKLDAINVEKAIEFVLSNMNFDGG  
FGCRPGSESHAGQIYCTGFLAITSQLHQVNSDLLGWLCERQLPSGGLNGRPEKLPDVC  
YSWWVLASLKIIGRLHWIDREKLRNFILACQDEETGGFADRPGDMVDPFHTLFGIAGLSL  
LGEEQIKPVNPVFCMPPEEVLQRVNVQPELVS

>sp|Q8IWS0|PHF6\_HUMAN PHD finger protein 6 OS=Homo sapiens GN=PHF6 PE=1 SV=1

MSSSVEQKKGPTRQRKCGFCKSNRDKCEGQLLISENQKVAHHKCMFLSSALVSSHSDNE  
SLGGFSIEDVQKEIKRGTKLMCSLCHCPGATIGCDVKTCHRTYHYHCALHDKAQIREKPS  
QGIYMYVYCRKHKTAHNSEADLEESFNEHELEPSSPKSKKKSRRKGRPRKTNFKGLEDTR  
STSSHGTDMESSYRDRSPHRSSPDTRPKCGFCHVGEEENEARGKLHIFNAKAAAHY  
KCMLFSSGTVQLTTTSRAEFGDFDIKTVLQEIKRGRMKCTLCSQPGATIGCEIKACVKT  
YHYHCGVQDKAKYIENMSRGIYKLYCKNHSGNDERDEEDEERESKSRGKVEIDQQQLTQQ  
QLNGN

>sp|C9JFL3|PHGR1\_HUMAN Proline, histidine and glycine-rich protein 1 OS=Homo sapiens  
GN=PHGR1 PE=4 SV=1

MDPGPKGHCHCGGHGPPGHGCGPPPHHGPGCGPPPGHGP CGCGPPPHH  
GPGPCGPPPGHGP GHPPPGPHH

>sp|Q16816|PHKG1\_HUMAN Phosphorylase b kinase gamma catalytic chain, skeletal  
muscle/heart isoform OS=Homo sapiens GN=PHKG1 PE=2 SV=3

MTRDEALPDSHSAQDFYENYEPKEILGRGVSSVVRRCIHKPTSQEYAVKVIDVTGGGSFS  
PEEVRELREATLKEVDILRKVSGHPNIIQLKDYETNTFFFLVFDLMKRGE LFDYLTEKV  
TLSEKETRKIMRALLEVICTLHKLNI VHRDLKPENILLDDNMNIKLTDGFGSCQLEPGER

LREVCGTPSYLAPEII E C S M N E D H P G Y G K E V D M W S T G V I M Y T L L A G S P P F W H R K Q M L M L R  
M I M S G N Y Q F G S P E W D D Y S D T V K D L V S R F L V V Q P Q N R Y T A E E A L A H P F F Q Q Y L V E E V R H F S  
P R G K F K V I A L T V L A S V R I Y Y Q Y R R V K P V T R E I V I R D P Y A L R P L R R L I D A Y A F R I Y G H W V K  
K G Q Q Q N R A A L F E N T P K A V L L S L A E E D Y

>sp|Q9Y5J5|PHLA3\_HUMAN Pleckstrin homology-like domain family A member 3 OS=Homo sapiens  
GN=PHLDA3 PE=1 SV=1

M T A A A T A T V L K E G V L E K R S G G L L Q L W K R K R C V L T E R G L Q L F E A K G T G G R P K E L S F A R I K A  
V E C V E S T G R H I Y F T L V T E G G E I D F R C P L E D P G W N A Q I T L G L V K F K N Q Q A I Q T V R A R Q S L  
G T G T L V S

>sp|Q86SQ0|PHLB2\_HUMAN Pleckstrin homology-like domain family B member 2 OS=Homo sapiens  
GN=PHLDB2 PE=1 SV=2

M E E H S Y I Q K E L D L Q N G S L E E D S V V H S V E N D S Q N M M E S L S P K Y S S S L R F K A N G D Y S G S Y L  
T L S Q P V P A K R S P L G T S V R S S P S L A K I Q G S K Q F S Y D G T D K N I P M K P P T P L L N T T S S L S G  
Y P L G R A D F D H Y T G R D S E R A L R L S E K P P Y S K Y S S R H K S H D N V Y S L G G L E G R K A S G S L L A M W  
N G S S L S D A G P P P I S R S G A A M P S S P K Q A R K M S I Q D S L A L Q P K L T R H K E L A S E N I N L R T R K  
Y S S S S L S H M G A Y S R S L P R L Y R A T E N Q L T P L S L P P R N S L G N S K R T K L G E K D L P H S V I D N D N  
Y L N F S S L S S G A L P Y K T S A S E G N P Y V S S T L S V P A S P R V A R K M L L A S T S S C A S D D F D Q A S Y V  
G T N P S H S L L A G E S D R V F A T R R N F S C G S V E F D E A D L E S L R Q A S G T P Q P A L R E R K S I S S I S  
G R D D L M D Y H R R Q R E E R L R E Q E M E R L E R Q R L E T I L S L C A E Y T K P D S R L S T G T T V E D V Q K I N  
K E L E K L Q L S D E E S V F E E A L M S P D T R Y R C H R K D S L P D A D L A S C G S L S Q S S A S F F T P R S T R N  
D E L L S D L T R T P P P S S T F P K A S S E S Y L S I L P K T P E G I S E E Q R S Q E L A A M E E T R I V I L N N  
L E E L K Q K I K D I N D Q M D E S F R E L D M E C A L L D G E Q K S E T T E L M K E K E I L D H L N R K I A E L E K N  
I V G E K T K E K V K L D A E R E K L E R L Q E L Y S E Q K T Q L D N C P E S M R E Q L Q Q Q L K R D A D L L D V E S K  
H F E D L E F Q Q L E H E S R L D E E K E N L T Q Q L L R E V A E Y Q R N I V S R K E K I S A L K K Q A N H I V Q Q A Q  
R E Q D H F V K E K N N L I M M L Q R E K E N L C N L E K K Y S S L S G G K G F P V N P N T L K E G Y I S V N E I N E P  
C G N S T N L S P S T Q F P A D A D A V A T E P A T A V L A S Q P Q S K E H F R S L E E R K K Q H K E G L Y L S D T L P  
R K K T T S S I S P H F S S A T M G R S I T P K A H L P L G Q S N S C G S V L P P S L A A M A K D S E S R R M L R G Y N  
H Q Q M S E G H R Q K S E F Y N R T A S E S N V Y L N S F H Y P D H S Y K D Q A F D T L S L D S S D M E T S I S A C S  
P D N I S S A S T S N I A R I E E M E R L L K Q A H A E K T R L L E S R E R E M E A K K R A L E E E K R R E I L E K R  
L Q E E T S Q R Q K L I E K E V K I R E R Q R A Q A R P L T R Y L P V R K E D F D L R S H V E T A G H N I D T C Y H V S  
I T E K T C R G F L I K M G G K I K T W K K R W F V F D R N K R T F S Y Y A D K H E T K L K G V I Y F Q A I E E V Y Y D  
H L K N A N K S P N P L L T F S V K T H D R I Y Y M V A P S P E A M R I W M D V I V T G A E G Y T H F L L

>sp|Q9GZP0|PDGFD\_HUMAN Platelet-derived growth factor D OS=Homo sapiens GN=PDGFD PE=1  
SV=1

M H R L I F V Y T L I C A N F C S C R D T S A T P Q S A S I K A L R N A N L R R D E S N H L T D L Y R R D E T I Q V K G  
N G Y V Q S P R F P N S Y P R N L L T W R L H S Q E N T R I Q L V F D N Q F G L E E A E N D I C R Y D F V E V E D I S  
E T S T I I R G R W C G H K E V P P R I K S R T N Q I K I T F K S D D Y F V A K P G F K I Y S L L E D F Q P A A A S E  
T N W E S T S S I S G V S Y N S P S V T D P T L I A D A L D K K I A E F D T V E D L L K Y F N P E S W Q E D L E N M Y  
L D T P R Y R G R S Y H D R K S K V D L D R L N D D A K R Y S C T P R N Y S V N I R E E L K L A N V V F F P R C L L V Q  
R C G G N C G C G T V N W R S C T C N S G K T V K K Y H E V L Q F E P G H I K R R G R A K T M A L V D I Q L D H H E R C  
D C I C S S R P P R

>sp|O15530|PDPK1\_HUMAN 3-phosphoinositide-dependent protein kinase 1 OS=Homo sapiens  
GN=PDPK1 PE=1 SV=1

M A R T T S Q L Y D A V P I Q S S V V L C S C P S P S M V R T Q T E S S T P P G I P G G S R Q G P A M D G T A A E P R P

GAGSLQHAQPPPQPRKKRPEDFKFGKILGEGSFSTVVLARELATSREYAIKILEKRHIK  
ENKVPYVTRERDVMSRLDHPFFVKLYFTFQDDEKLYFGLSYAKNGELLYIRKIGSFDET  
CTRFYTAIEIVSALEYLHGKGI IHRDLKPENILLNEDMHIQITDFGTAKVLSPEKQARAN  
SFVGTAQYVSPELLETSACKSSDLWALGCI IYQLVAGLPPFRAGNEYLI FQKI I KLEYD  
FPEKFFPKARDLVEKLLVLDA TKRLGCEEMEGYGPLKAHPFFESVTWENLHQQTTPPKLTA  
YLPAMSEDDDCYGYNDNLLSQFGCMQVSSSSSSSHLSASDTGLPQRSGSNIEQYIHDLD  
SNSFELDLQFSEDEKRLLEKQAGGNPWHQFVENNLILKMGPVDKRKGLFARRRQLLLE  
GPHLYYVDPVNKVLKGEIPWSQELRPEAKNFKTFFVHTPNRTYYLMDPSGNAHKWCRKIQ  
EVWRQRYQSHPDAAVQ

>sp|Q86YL7|PDPN\_HUMAN Podoplanin OS=Homo sapiens GN=PDPN PE=1 SV=3

MWKVSALLFVLGSASLWVLAEGASTGQPEDDTETTGLEGGVAMPGAEDDVVTPGTSEDY  
KSGLTTLVATSVNSVTGIRIEDLPTSESTVHAQEQSPSATASNVATSHSTEKVDGDTQTT  
VEKDGLSTVTLVGIIVGVLLAIGFIGAIIVVMRKMSGRYSP

>sp|Q6P474|PDXD2\_HUMAN Putative pyridoxal-dependent decarboxylase domain-containing  
protein 2 OS=Homo sapiens GN=PDXDC2P PE=5 SV=3

MDASLEKIADPTLAEMGKNLKEAVKMLEDQRRTTEEENGKKLISRDIPLGGLQGSGQDMVS  
ILQLVQNLMHGDEDEEPQSPRIQNIQEQQGHVAVLGHSLGAYILTLDEEKLRLKLTTRILSD  
TTLWLCRIFRYENGCAVFHEEEREGLAKICRLAIHSQYEDFVVDGFGSLYNKKPVIYLSA  
AARPGLGQYLCNQLGLPFPCLCRVPCNTMFGSQHQMDVAFLEKLIKDDIERGRLPLLLVA  
NAGTAAVGHTDKIGRLKELCEQYGIWLHVEGVNLATLALGYVSSSVLAAKCDSTMTPTG  
PWLGLPAVPAVTLYKHDPALTLVAGLISNKPTDKLRALPLWLSLQYLGLDGFVERIKHAC  
QLSQWLQESLKKVNYIKILVEDELSPPVVVFRFFQELPGSDPVFKAVPVNMTPSAVGRE  
RHSCDALNLWLGEQLKQLVPASGLTVMDLEAEGTCLRFSPMLTAAGMIS

>sp|A8MUH7|PDZ1P\_HUMAN Putative PDZ domain-containing protein PDZK1P1 OS=Homo sapiens  
GN=PDZK1P1 PE=5 SV=2

MNGGVQWTQPRLCYLVKEGGSHGFSLKTVQGKKGVYMTDITPQGVAMRAGVLADDHLIE  
VNGENVEDASHEEVVEKVKKSGSRVMFLLVDKETDKRHVEQKI QFKRETASLKLPHQPR  
IVEMKKGSNGYGFYLRAGSEQKGWGRVGQI IKDIDSGSPAEEAGLKNNDLVAVNGESVE  
TLDHDSVVEMIRKGGDQTSLLVVDKETDNMYRLAHFSPFLYYQSQELPNGSVKEAPATP  
TSLEVSSPPDTTEEDHKPKLCRLAKGENGYGFHLNAIRGLPGSFIKEVQKGGPADLAGL  
EDEDVIEVNGVNVLDPEYKVVDRIQSSGKNVTLLVCGKKAYDYFQAKKIPIVSSLADP  
LDTPPDSKEGIVVESKHDSHMAKERAHSTASHSSSNSDTEM

>sp|Q76G19|PDZD4\_HUMAN PDZ domain-containing protein 4 OS=Homo sapiens GN=PDZD4 PE=1 SV=1

MGCNMCVVQKPEEQYKVMLQVNGKELSKLSQEQLQALRSSKEPLVIQVLRSPRLRGDS  
SCHDLQLVDSGTQTDITFEHIMALGKLRPPTPPMVILEPPPI SHEYYDPAEFMEGGPQEA  
DRLDELEYEEVELYKSSHRDKLGLMVCYRTDDEEDLGIYVGEVNPNSIAAKDGRIREGDR  
IIQINGVDVQNREEAVAILSQEENTNISLLVARPESQLAKRWKSDRDDFLDDFGSENEG  
ELRARKLSPPAQPGNEEEKGAPDAGPLSNSQELDSGVGRTESTRNEESSEHDLGLD  
EPPSSTNTPGSLRKFGLDALQSRDFHFSMDSLAEGAGLGGGDVPGLTDEEYERYREL  
LEIKCHLENGNQLGLLFPASGGNSALDVNRNESLGHEMAMLEELRHLEFKCRNILRAQ  
KMQQLRERCMKAWLLEESLYDLAASEPKKHELSDISELPEKSDKDSTSAYNTGESCRST  
PLLVEPLPESPLRRAMAGNSNLNRTPPGPAVATPAKAAPPPGSPAKFRSLSRDPEAGRRQ  
HAEERGRNPKTGLTLERVGPESPYLSRRHRGQGQEGEYHSCVQLAPTRGLEELGHGP  
LSLAGGPRVGGVAAAATEAPRMEWKVKVRS DGTRYVAKRPVRDRLLKARALKIREERSGM

TTDDDAVSEMKGGRYWSKEERKQHLIRAREQKRREFMMQSRLECLREQQNGDSKPELNI  
IALSHRKTMMKRNKKILDNWITIQEMLAHGARSADGKRVYNPLLSVTTV

>sp|Q8IXQ8|PDZD9\_HUMAN PDZ domain-containing protein 9 OS=Homo sapiens GN=PDZD9 PE=2 SV=2

MQKASHKNKKERGVSNNKVKTSVHNLSKTQQTKLTVGSLGLGLIIQHGPYLQITHLIRKG  
AAANDGKLQPGDVLISVGHANVLGYTLREFLQLLQHITIGTVLQIKVYRDFINIPPEWQE  
IYDLIPEAKFPVTSTPKKIELAKDESFTSSDDNENVLDLKRQYYRYPWSTVHHPARPPI  
SISRWDHGYKKKNHTISVGKDINCDVMIHRDDKKEVRAPSPYWMVKQDNESSSSSTSST  
SDAFWLEDCAQVEEGKAQLVSKVG

>sp|P43116|PE2R2\_HUMAN Prostaglandin E2 receptor EP2 subtype OS=Homo sapiens GN=PTGER2  
PE=2 SV=2

MGNASNDSQSEDCETRQWLPPGESPAISSVMFSAGVLGNLIALALLARRWRGDVGCASGR  
RSSLSLFHVLVTELVTDLGTCLISPVVLASYARNQTLVALAPESRACTYFAMTFFS  
LATMLMLFAMALERYLSIGHPYFYQRRVSRSGGLAVLPVIYAVSLLFCSLPLLDYGQYVQ  
YCPGTWCFIRHGRATYLLQYATLLLLLIVSVLACNFSVILNLRMHRRSRRCGSPSLGS  
GRGGPGARRRGERVSMAEETDHLILLAIMTITFAVCSLPFTIFAYMNETSSRKEKWDLQA  
LRFLSINSIIDPWVFAILRPPVLRMLRSVLCRISLRTQDATQTSCSTQSDASKQADL

>sp|P43115|PE2R3\_HUMAN Prostaglandin E2 receptor EP3 subtype OS=Homo sapiens GN=PTGER3  
PE=2 SV=1

MKETRGYGGDAPFCTRLNHSYTMWAPERSAEARGNLTRPPGSGEDCGSVSVAFPITMLL  
TGFVGNALAMLLVSRSYRRRESKRKKSFLLCIGWLALTDLVGQLLTPVVIVVYLSKQRW  
EHIDPSGRCLCTFFGLTMTVFLGSSLFASAMAVERALAIRAPHWYASHMKTRATRAVLG  
VWLAVLAFALLPVLGVGYTVQWPGTWCFISTGRGGNGTSSSHNWGNLFFASAFALGGL  
ALTVTFSCLATIKALVSRCAKATASQSSAQWGRITTETAIQLMGIMCVLSVCWSPLLI  
MMLKMIFNQTSVEHCKTHTEKQKECNFFLIAVRLASLNQILDPWVYLLLRKILLRKFCQI  
RYHTNNYASSSTSLPCQCSSTLMWSDHLER

>sp|P35408|PE2R4\_HUMAN Prostaglandin E2 receptor EP4 subtype OS=Homo sapiens GN=PTGER4  
PE=1 SV=1

MSTPGVNSSASLSPDRLNSPVTIPAVMFIQVVGNLVAIVVLCKSRKEQKETTFTYTLVCG  
LAVTDLLGTLLVSPVTIATYMKGQWPGGQPLCEYSTFILLFFSLGSLIICAMSVERYLA  
INHAYFYSHYVDKRLAGLTLFAVYASNVLFALPNMGLGSSRLQYPDTWCFIDWTTNVT  
HAASYMYAGFSSFLILATVLCNVLVCGALLRMHRQFMRRTSLGTEQHHAASVASRG  
HPAASPALPRLSDFRRRRFRRIAGAEIQMVILLIATSLVVLICSIPLVVRVFNQLYQP  
SLEREVSKNPDLQAIRIASVNPILDPWIYILLRKTVLSKAIEKIKCLFCRIGGSRRERSG  
QHCSDSQRTSSAMSGHSRSFISRELKEISSTSQTLLPDLPLDSENGLGGRNLLPGVPG  
MGLAQEDTTSLRTLRISETSDSSQGQDSESVLLVDEAGSGRAGPAPKGSSLQVTFPSET  
LNLSEKCI

>sp|Q9H792|PEAK1\_HUMAN Pseudopodium-enriched atypical kinase 1 OS=Homo sapiens GN=PEAK1  
PE=1 SV=4

MSACNTFTEHVWKPGECKNCFKPKSLHLQPPDPEKAPITHGNVKTANHSNNHRIRNTGN  
FRPPVAKKPTIIVKPTMIVADGQSIGGELSIQEHENKPVIIQWNRNRAALSQKPLNNNN  
EDDEGISHVPKPYGNNSAKKMSDNNNGLTEVLKEIAGLDTAPQIRGNETNSRETFLGRI  
NDCYKRSLEKLPSCMIGGIKETQGGKHVILSGSTEVISNEGGRFCYPEFSSGEESEEDV  
LFSNMEEEHESWDESEELLAMEIRMRGQPRFANFRANTLSPVRFFVDKKWNTIPLRNKS  
LQRICAVDYDDSYDEILNGYEENSVVSYGQGSIQSMVSSDSTSPDSSLTEESRSETASSL

SQKICNGGLSPGNPGDSKDMKEIEPNYESPSSNNQDKDSSQASKSSIKVPETHKAVLALR  
LEEKDGKIAVQTEKEESKASTDVAGQAVTINLVPTEEQAKPYRVVNLEQPLCKPYTVVDV  
SAAMASEHLEGPVNSPKTKSSSSTPNSPVTSSSLTPGQISAHFQKSSAIRYQEVWTSSTS  
PRQKIPKVELITSGTGNVPPRKNCHKSAPTSPTATNISSKTI PVKSPNLSEIKFNSYNN  
AGMPFPPIIIHDEPTYARSSKNAIKVPIVINPNAYDNLA IYKSFLGTSGELSVKEKTSV  
ISHTYEEIETESKVPDNTTSKTTDCLQTKGFSNSTEHKRGSAQKVQEFNNCLNRGQSSP  
QRSYSSSHSSPAKIQRATQEPVAKIEGTQESQMVGSSTREKASTVLSQIVASIQPPQSP  
PETPQSGPKACSVIELYAIPPDADVAKSTPKSTPVRPKSLFTSQPSGEAEAPQTTDSPTT  
KVQKDPsikpvtspsklvtspqseppapfppprstsspyhagnllqRHFTNWTkPTSPT  
RSTEAESVLHSEGSRRAADAKPKRWISFKSFFRRRKTDEEDDKEREKGLVGLDGTVI  
HMLPPPVRHHWFTEAKGESSEKPAIVFMYRCDPAQGQLSVDQSKARTDQAAMVEKGRA  
ENALLQDSEKKRSHSSPSQIPKKILSHMTHEVTEDFSRPDPRTVVGKQDGRGCTSVTTAL  
SLPELEREDGKEDISDPMDPNPCSATYSNLGQSRAAMIPPKQPRQPKGAVDDAIAFGGKT  
DQEAPNASQPTPPPLPKMIIRANTEPISKDLQKSMESSLCVMANPTYDIDPNWDASSAG  
SSISYELKGLDIESYDSLRLRKPVPVSAANSISLTLSTIKDRFSNSMESLSSRRGP  
SCRQGRGIQKQQRQALYRGLENREEVVGKIRSLHTDALKKLAVKCEDLFMAGQKDQLRFG  
VDSWSDFRLTSDKPCCEAGDAVYTYASYAKDPLNNYAVKICKSKAKESQQYYHSLAVRQS  
LAVHFNIIQDCGHFLAEVPNRLLPWEDPDDPEKDEDDMEETEEDAKGETDGKNPKPCSEA  
ASSQKENQGVMSKKQRSHVVVITREVPCLTVADFVRDSLQHGKSPDLYERQVCLLLLQL  
CSGLEHLKPYHVTHCDLRLNLLL VHYQPGGTAQGFGPAEPSPTSSYPTRLIVSNFSQAK  
QKSHLVDPEILRDQSR LAPEIITATQYKKCDEFQTGIL IYEMLHLPNPFDENPELKEREY  
TRADLPRIPFRSPYSRGLQQLASCLLNPNPSEILISDAKGILQCLLWGPREDLFQTFTA  
CPSLVQRNTLLQNWLDIKRTLLMIKFAEKSLDREGGISLEDWLCAQYLAFATTDLSLCIV  
KILQHR

>sp|Q9BY49|PECR\_HUMAN Peroxisomal trans-2-enoyl-CoA reductase OS=Homo sapiens GN=PECR  
PE=1 SV=2

MASWAKGRSYLAPGLLQGQVAIVTGGATGIGKAIVKELLELSNVV IASRKLERLKSAA  
ELQANLPPTKQARVPIQCNIRNEEVNVLKSTLDTFGKINFLVNNGGGQFLSPAEHIS  
SKGWHAVLETNLTGTFYMCKAVYSSWMKEHGGSI VNIIVPTKAGFPLAVHSGAARAGVYN  
LTKSLALEWACSGIRINCVAPGVIYSQTAVENYGSWGQSFEGSFQKIPAKRIGVPEEVS  
SVVCFLLSPAASFITGQSVDDGGRSLYTHSYEVPDHDNWPKGAGDLSVVKKMKETFKEK  
AKL

>sp|Q9NZ42|PEN2\_HUMAN Gamma-secretase subunit PEN-2 OS=Homo sapiens GN=PS  
ENEN PE=1 SV=1  
MNLERSVNEEKLNLCKRYLGGFAFLPFLWLVNIFWFFREAF LVPAYTEQS QIKGYVWRS  
AVGFLFWVIVLT SWITIFQIYRPRWGALGDYLSFTIPLGTP

>sp|P01210|PENK\_HUMAN Proenkephalin-A OS=Homo sapiens GN=PENK PE=1 SV=1  
MARFLTLC TWLLLLGPGLLATVRAECSQDCATCSYRLVRPADINFLACVMECEGKLPSLK  
IWETCKELLQLSKPELPQDGTSTLRENSKPEESHLLAKRYGGFMKRYGGFMKKMDELYPM  
EPEEEANGSEILAKRYGGFMKKDAEEDDSLANSDDLKELLETDGDNRRERSHHQDGSN  
EEVSKRYGGFMRLKRSPQLEDEAKELQKRYGGFMRRVGRPEWMDYQKRYGGFLKRFAEA  
LPSDEEGESYSKEVPEMEKRYGGFMRF

>sp|Q8NDH3|PEPL1\_HUMAN Probable aminopeptidase NPEPL1 OS=Homo sapiens GN=NPEPL1 PE=1 SV=3  
MANVGLQFQASAGSDPQSRPLLLGLLHHLHRVPWVSHVRGKLQPRVTEELWQAALSTLN  
PNPTDSCPLYLNYATVAALPCRVS RHNSPSAAHFITRLVRTCLPPGAHRCIVMVCEQPEV



FASACALARAFPLFTHRSGASRRLEKKTVTVEFFLVGQDNGPVEVSTLQCLANATDGVRL  
AARIVDTPCNEMNTDTFLEEINKVGKELGIPTIIRDEELKTRGFGGIYGVGKAALHPPA  
LAVLSHTPDGATQTIAWVGKGIYDGTGLSIKGTMTMPGMRDCGGAAAVLGAFRAAIKQ  
GFKDNLHAVFCLAENSVGNATRPDDIHLLYSGKTVEINNTDAEGRVLADGVSYACKDL  
GADIILDMATLTGAQGIATGKYHAAVLNSAEWEAACVKAGRKCGDLVHPLVYCEPHFS  
EFTSAVADMKNVADRDNSPSSCAGLFIASHIGFDWPGVWVHLDIAAPVHAGERATGFGV  
ALLLALFGRASEDPLNLVSPLGCEVDVEEGDLGRDSKRRRLV

>sp|075420|PERQ1\_HUMAN PERQ amino acid-rich with GYF domain-containing protein 1 OS=Homo sapiens GN=GIGYF1 PE=1 SV=2

MAAETLNFGPEWLRALSGGGSVASPPSPAMPKYKLADYRYGREMLALYVKENKVPEEL  
QDKEFAAVLQDEPLQPLALEPLTEEEQRNFSLSVNSVAVLRMLMGKGAGPPLAGTSRGRGS  
TRSRGRGRGDS CFYQRSIEEGDGAFGRS PREIQRSQSWDDRGERRFEKSARRDGARCGFE  
EGGAGPRKEHARSDSENWRS LREEQEEEEEGSWRLGAGPRRDGDRWRSASPDGGPRSAGW  
REHGERRRRKFEDLRGDRGGCGEEEGRGGGSSHLRRCRAPEGFEEDKDGLPEWCLDDED  
EEMGTFDASGAFLPLKKGPKPIPEEQELDFQGLEEEEEEPSEGLEEEGPEAGGKELTLP  
PQEEKSSSPSPLPTLGPLWGTNGDGDETAKEPPAAEDDIRGIQLSPGVGSSAGPPGDLE  
DDEGLKHLQQEAEKLVASLQDSSLEEEQFTAAMQTQGLRHSAAATALPLSHGAARKWFYK  
DPQGEIQGPFTTQEMAEWFQAGYFSMSLLVKRGCEGFQPLGEVIKMWGRVPFAPGPSPP  
PLLGNMDQERLKKQQELAAAALYQQLQHQQFLQLVSSRQLPQCALREKAALGDLTPPPPP  
PPQQQQQQQLTAFLLQLQALKPPRGGDQNLPTMSRSLSVPDSGRLWDVHTSASSQSGGEA  
SLWDIPINSSTQGPILQLQLQHKFQERREVELRAKREEEERKRREEKRRQQQEEQKRR  
QEEELFRRKHVRQQELLLKLLQQQAVPVPPAPSSPPPLWAGLAKQGLSMKTLLLELQLE  
GERQLHKQPPPREPARAQAPNHRVQLGGLGTAPLNQWVSEAGPLWGGPDKSGGSSGLGL  
WEDTPKSGGSLVRGLGLKNSRSSPSLSDSYSHLSGRPIRKKTEEEKLLKLLQGIPRPQD  
GFTQWCEQMLHTLSATGSLDVPMAVAILKEVESPYDVHDYIRSCLDGTLEAKEFAKQFLE  
RRAKQKASQQRQQQEAWLSSASLQTAFAQNHSTKLGPGEKSKAKRRALMLHSDPSILGY  
SLHGSSGEIESVDDY

>sp|075151|PHF2\_HUMAN Lysine-specific demethylase PHF2 OS=Homo sapiens GN=PHF2 PE=1 SV=4

MATVPVYCVCRPLYDVTRFMIECDACKDWFHGSCVGVVEEEEAPDIDIYHCPNCEKTHGKS  
TLKKKRTWHKHGPGQAPDVKPVQNGSQLFIKELRSRTFPSAEDVVARVPGSQLTLGYMEE  
HGFTEPILVPKDGGLAVPAPTFYVSDVENYVGPERSVDVTDVTKQKDCMKLKEFVDY  
YYSTNRKRVLNVTNLEFSDTRMSSFVEPPDIVKKLSWVENYWPDDALLAKPKVTKYCLIC  
VKDSYTD FHDISGGASAWYHVLKGEKTFYLIRPASANISLYERWRSASNHSEMFFADQVD  
KCYKCIVKQGQTLFIPSGWIYATLTPVDCLAFAGHFLHLSVEMQMRAYEVERRLKLGSL  
TQFPNFETACWYMGKHLLEAFKGSKSGKQLPPHLVQGA KILNGAFRSWTKKQALAEHED  
ELPEHFKPSQLIKDLAKEIRLSENASKAVRPEVNTVASSDEVCDGDREKEEPPSPIEATP  
PQSLEKVSKKKTPKTVKMPKPSKIPKPPKPPKPPRPKTLKLDGGKKKGKKSRESASP  
TIPNLDLLEAHTKEALT KMEPPKKGKATKSVLSPN KDVVHMQNDVERLEIREQTSKSE  
AKWKYKNSKPD SLLKMEEEQKLEKSPLAGNKDNKFSFSFNKLLGSKALRPPTSPGVFG  
ALQNFKEDKPKPVRDEYEVSDDGELKIDFPIRRKKNAPKRDL SFLLDKKA VLPVTK  
PKLDSAAYKSDDSSDEGLHIDTDTPGRNARVKKESGSSAAGILDLLQASEEVGALEYN  
PSSQPPASPSTQEAIQGM LSMANLQASD SCLQTTWAGQAKGSSLA AHGARKNGGSGKS  
AGKRLLKRAAKNSVDLDDYEEEQDHLDACFKDSDYVYPSLESDENPIFKSRSKKRKGS  
DAPYSPTARVGPSVPRQDRPVREGTRVASIETGLAAAAAKLSQQEEQKSKKKKSAKRKLT

PNTTSPSTSTSIAGTTSTSTTPASTTPASTTPASTSTASSQASQEGSSPEPPPESSSS  
LADHEYTAAGTFTGAQAGRTSQPMAPGVFLTQRRPSASSPNNNTAAKGKRTKKGMATAKQ  
RLGKILKIHRNGKLLL

>sp|Q92576|PHF3\_HUMAN PHD finger protein 3 OS=Homo sapiens GN=PHF3 PE=1 SV=3

MDIVDTFNHLIPTEHLDDALFLGSNLENEVCEDFSASQNVLED SLKNMLSDKDPMLGSAS  
NQFCLPVLDSNDPNFQMPCSTVVGLDDIMDEGVVKESGNDTIDEEELILPNRNL RDKVEE  
NSVRSRPRKSPRLMAQEQRSLRQSTIAKRSNAAPLSNTKKASGKTVSTAKAGVKQPERSQ  
VKEEVCMSLKPEYHKENRRCSRNSGQIEVVPEVSVSSSHSVSSCLEMKDEDGLDSKHKC  
NNPGEIDVPSHELNCSLLSETCVTIGEKKNEALMECKAKPVGSPLFKFSDKEEHEQNDSI  
SGKTGETVVEEMIATRKEQDSKETVKLSHEDDHILEDAGSSDISSDAACTNPNTENSL  
VGLPSCVDEVTECNLELKD TMGIADKTENTLERNKIEPLGYCEDAESNRQLESTEFN KSN  
LEVVDTSTFGPESNILENAICDVPDQNSKQLNAIESTKIESHETANLQDDRNSQSSSVSY  
LESKSVKSKHTKPIVHSKQNM T DAPKKIVA AKYEV IHSKTKVNVKSVKRNTDVPESQQN  
FHRPVKVRKKQIDKEPKIQSCNSGVKSVKNQAHSVLKKTLDQDTLVQIFKPLTHSLSDKS  
HAHPGCLKEPHHPAQTHGVSHSSQKQCHKPQQAPAMKTN SHVKEELEHPGVEHFKEEDK  
LKLKKPEKNLQPRQRRSSKSFSLDEPPLFIPDNIATIRREGSDHSSSFESKYMWTPSKQC  
GFCKKPHGNRFMVGCGRCDDWFHGDCVGLSLSQAQQMG EEDKEYVCVCCA EEDKKTEIL  
DPDTLENQATVEFHSGDKTMECEKLGLSKHTTNDRTKYIDDTVKKHKVILKRESGEGRNS  
SDCRDNEIKKWQLAPLRKMGQPVLP RRSSEEKSEKIPKESTTVTCTGEKASKPGTHEKQE  
MKKKKVEKGVLNVHPAASASKPSADQIRQSVRHSLKDILMKRLTDSNLKVPEEKA AKVAT  
KIEKELFSFFRD TDAKYKNKYRSLM FNLDKPKNNILFKKVLKGEVTPDHLIRMSPEELAS  
KELAAWRRREN RHTIEMIEKEQREVERRPITKI THKGEIEIESDAPMKEQAAMEIQEPA  
ANKSLEKPEGSEKQKEEVDSMSKDTTSQHRQH LFDLNCKICIGRMAPPVDDLSPKKVKVV  
VGVARKHSDNEAESIADALSSTSNILASEFFEEEEKESPSTFSPAPRPEMPGTVEVEST  
FLARLNFIWKGFINMPSVAKFVTKAYPVSGSPEYLTEDLPDSIQVGGRI SPQTVWDYVEK  
IKASGTKEICVVRFTPVTEEDQISYTL LFAYFSSRKRYGVAANNMKQVKD MYLIPLGATD  
KIPHPLVPFDGPGL ELHRPNLLGLIIRQKLKRQHSACASTSHIAETPESAPPIALPPDK  
KSKIEVSTEEAPEEENDFNSFTTVLHKQRNKPQQLQEDLP TAVEPLMEVTKQEPPKPL  
RFLPGVLIGWENQPTTLELANKPLPVDDILQSL LGTTGQVYDQAQSVMEQNTVKEIPFLN  
EQTNSKIEKTDNVEVTDGENKEIKVKVDNISESTDKSAE IETSVVGSSSISAGSLTSLSL  
RGKPPDVSTEAFLTNLSIQSKQEETVESKEKTLKRQLQEDQENNLQDNQTSNSSPCRSNV  
GKGNI DGNVSCSEN LVANTARSPQFINLKRDP RQAAGRSQPVTTSSEKDG DSCRNGEKHM  
LPGLSHNKEHLTEQINVEEKLCSAEKNSCVQQSDNLKVAQNSPSVENIQTSQAEQAKPLQ  
EDILMQNIETVHPFRRGSAVATSHFEVGNTCPSEFP SKSITFTSRSTSPTSTNFSPMRP  
QQPNLQHLKSSPPGFPPGPPNFPPQSMFGFP PHLPPPLLPPP GFQAQNPMPVPPV VH  
LPGQPQRMMGPLSQASRYIGPQNFYQVKDIRRPERRHSDPWGRQDQQQLDRPFNRGKGDR  
QRFYSDSHHLKRERHEKEWEQESERHRRDRSQDKDRDRKSREEGHKDKERARLSHGDRG  
TDGKASRDSRNVDKPKPKSEDEYEDKEREKSKHREGEKDRDRYHKDRDHTDRTKSKR

>sp|O14986|PI51B\_HUMAN Phosphatidylinositol 4-phosphate 5-kinase type-1 beta OS=Homo sapiens GN=PIP5K1B PE=1 SV=2

MSSAAENG EAAPGKQNEEKTYKKTASSAIKGAIQLGIGYTVGNLTSKPERDVL MQDFYVV  
ESVFLPSEGSNLTPAHHPDFRFTYAPLAFRYFRELFGIKPDDYLYICSEPLIELSNP  
GASGSLFFVTSDEDFI IKTVQHKEAEFLQKLLPGYYMNLNQNPRTLLPKFYGLYCMQSGG  
INIRIVVMNNVLP RSMRMHFTYDLKGSTYKRRASRKEREKSNPTFKDLDFLQDMHEGLYF

DTETYNALMKTQLQRDCRVLESFKIMDYSLLLGIHFLDHSLKEKEEETPNVPAKRTGMQ  
KVLYSTAMESIQGPGKSGDGIITENPDTMGGIPAKSHRGEKLLLFMGIIDILQSYRLMKK  
LEHSWKALVYDGDTVSVHRPSFYADRFLKFMNSRVFKKIQALKASPSKKRCNSIAALKAT  
SQEIVSSISQEWKDEKRDLLTEGQSFSSLDDEALGSRHRPDLVPSTPSLFEAASLATTIS  
SSSLYVNEHYPHDRPTLYSNSKGLPSSSTFTLEEGTIYLTAEPTLEVQDDNASVLDVYL

>sp|Q8N2W9|PIAS4\_HUMAN E3 SUMO-protein ligase PIAS4 OS=Homo sapiens GN=PIAS4 PE=1 SV=1

MAAELVEAKNMVMSFRVSDLQMLLGFVGRSKSLKHELVTRALQLVQFDCSPELFKKIKE  
LYETRYAKKNSEPAPQPHRPLDPLTMHSTYDRAGAVPRTPLAGPNIDYPVLYGKYLNLG  
RLPAKTLKPEVRLVKLPFFNMLDELLKPTLVQNNKQLQESPCIFALTTPRQVELIRNSR  
ELQPGVKAVQVVLRICYSDTSCPQEDQYPPNIAVKVNHSYCSVPGYYPSPNKPGEVPEKRPC  
RPINLTHLMLSSATNRITVTWNGYKSYVALYLVRQLTSELLQRLKTIGVKHPELCK  
ALVKEKRLRDPDSEIATTGVRVSLICPLVKMRLSVPCRAETCAHLQCFDAVFYLMNEKK  
PTWMCPCDKPAPYDQLIIDGLLSKILSECEDADEIEYLVDGSWCPIRAEKERSCSPPQGA  
ILVLGSPDANGLLPAPSVNGSGALGSTGGGGPVGSMENKPGADVVDLTLDSSSSSEDEE  
EEEEEEDEDEEGPRPKRRCPFQKGLVPAC

>sp|Q9H611|PIF1\_HUMAN ATP-dependent DNA helicase PIF1 OS=Homo sapiens GN=PIF1 PE=1 SV=2

MLSGIEAAAGEYEDSELRCRVAVEELSPGGQPRRRQALRTAELSLGRNERRELMLRLQAP  
GPAGRPRCFPLRAARLFTRFAEAGRSTLRLPAHDTPGAGAVQLLLSDCPPDRLRRFLRTL  
RLKLAAAPGPGPASARAQLGPRPRDFVTISPVQPEERRLRAATRVPTTLVKRPVEPQA  
GAEPSTEAPRWPLPVKRLSLPSTKPQLSEEQA AVLRAVLKGQSIFFTGSAGTGKSYLLKR  
ILGSLPPTGTVATASTGVAACHIGGTTLHAFAGIGSGQAPLAQCVALAQRPGVRQGWLNC  
QRLVIDEISMVEADLFDKLEAVARAVRQQNKPFGGIQLICGDFLQLPPVTKGSQPPRFC  
FQSKSWKRCVPVTLELTKVWRQADQTFISLLQAVRLGRCSDEVTRQLQATASHKVGRDGI  
VATRLCTHQDDVALTNERRLQELPGKVHRFEAMDSNP ELASTLDAQCPVSQLLQLKLGAQ  
VMLVKNLSVSRGLVNGARGVVVGFEAEGRLPQVRFLCGVTEVIHADRWTQATGGQLLS  
RQQLPLQLAWAMSIHKSQGMTLDCEISLGRVFASGQAYVALSRARSLQGLRVLD FDPMA  
VRCDPRVLHFYATLRRGRSLSLESPDDDEAASDQENMDPIL

>sp|Q8TEQ8|PIGO\_HUMAN GPI ethanolamine phosphate transferase 3 OS=Homo sapiens GN=PIGO  
PE=1 SV=3

MQKASVLLFLAWVCFLFYAGIALFTSGFLLTRLELTNHSSCQEPGPGSLPWGSQGKPGA  
CWMASRFSRVVLVIDALRFDFAQQHSHVPREPPVSLPFLGKLSSLQRILEIQPHHARL  
YRSQVDPPPTTMRQLKALTGSLPTFIDAGSNFASHAIVEDNLIKQLTSAGRRVVMGDD  
TWKDLFPGAFSKAFFPFSFNVRDLDTVDNGILEHLYPTMDSGEWDVLI AHFLGVDHCGHK  
HGPHHP EAMAKLSQMDQVIQGLVERLENDTLLVVAGDHGMMTNGDHGGDSELEVS AALFL  
YSPTAVFPSTPPEEPEVIPQVSLVPTLALLLGLPIPFNGIGEVMAELFSGGEDSQPHSSA  
LAQASALHLNAQQVSRFLHTYSAATQDLQAKELHQLQNLFSKASADYQWLLQSPKGAEAT  
LPTVIAELQQFLRGARAMCIESWARFSLVRMAGGTALLAASCFCILLASQWAI SPGF PFC  
PLLLTPVAWGLVGAIAYAGLLGTIELKLDLVLLGAVA AVSSFLPFLWKAWAGW GSKRPLA  
TLFPIPGPVLLLLLFR LAVFFSDSFVVAEARATPFLLSFI LLLVVQLHWEGQLLPPKLL  
TMPRLGTSATTNPPRHNGAYALRLGIGLLLCTR LAGLFHRCPEETPVCHSSP WLSPLASM  
VGGRAKNLWYGACVAALVALLAAVRLWLRRYGNLKSPEPPMLFVRWGLPLMALGT AAYWA  
LASGADEAPPRLRVLVSGASMVLPRAVAGLAASGLALLLWKPVTVLVKAGAGAPRTRTVL  
TPFSGPPTSQADLDYVVPQIYRHMQE EFRGRLERTKSQGPLTVAAYQLG SVVYS AAMVTAL  
TLLAFPLLLLHAERISLVFLLLFLQS FLLLHLLAAGIPVTTPGPFTVPWQAVSAWALMAT

QTFYSTGHQPVPFAIHWHAAFVGFPEGHGSCTWLPALLVGANTFASHLLFAVGCPLLLLW  
PFLCESQGLRKRQPPGNEADARVRPEEEEEPLMEMRLRDAPQHFYAALLQLGLKYLFIL  
GIQILACALAASILRRHLMVWKVFAPKFIIEAVGFIVSSVGLLLGIALVMRVDGAVSSWF  
RQLFLAQQR

>sp|Q9NUD9|PIGV\_HUMAN GPI mannosyltransferase 2 OS=Homo sapiens GN=PIGV PE=1 SV=1

MWPQDPSRKEVLRFAVSCRILTMLQALFNAIIPDHAEAFSPRLAPSGFVDQLVEGLL  
GGLSHWDAEHFLFIAEHGYLYEHNFAFFPGFPLALLVGTELLRPLRGLLSLRSCLLISVA  
SLNFLFFMLAAVALHDLGCLVLHCPHQSFYAALLFCLSPANVFLAAGYSEALFALLTFSA  
MGQLERGRVWTSVLLFAFATGVRNGLVSVGFLMHSQCQGFSSLTMLNPLRQLFKLMAS  
LFLSVFTLGLPFALFQYYAYTQFCLPGSARPIEPLVQLAVDKGYRIAEGNEPPWC FWDV  
PLIYSYIQDVYWNVGFLLKYELKQVPNFLLAAPVAILVAWATWTYVTTHPWLC TLGLQR  
SKNNKTLEKPDGLFSPQVFVYVVAHVLLLFGGLCMHVQVLT RFLGSSTPIMYWPAHL  
LQDQEPLLRSLKTPWKPLAEDSPPGQKVP RNPIMGLLYHWKTCSPVTRYILGYFLTYWL  
LGLLLHCNPLPWT

>sp|Q8TBF5|PIGX\_HUMAN Phosphatidylinositol-glycan biosynthesis class X protein OS=Homo sapiens GN=PIGX PE=2 SV=3

MAARVAAVRAAWLLGAATGLTRGPAAFTAARSDAGIRAMCSEIILRQEVLDKGFHRD  
LLIKVKFGESIEDLHTCRLLIKQDIPAGLYVDPYELASLRERNITEAVMVSENFIDIEAPN  
YLSKESEVLIYARRDSQCIDCFQAFLPVHCRYHRPHSEGEASIVVNNPDLLMFCDQEF  
ILKCAHSEVAAPCALENEDICQWNKMKYKSVYKNVILQVPVGLTVHTSLVCSVTLLITI  
LCSTLILVAVFKYGHFSL

>sp|Q9NWS0|PIHD1\_HUMAN PIH1 domain-containing protein 1 OS=Homo sapiens GN=PIHD1 PE=1 SV=1

MANPKLLGMGLSEAEIAGDSARFEELLLQASKELQQAQTTRPESTQIQPQPGFCIKTNS  
SEKVFFINICHSPSIPPPADVTEEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAY  
DVAVNSDFYRRMQNSDFLREL VITIAREGLEDKYNLQLNPEWRMMKNRPFMGSSISQQNIR  
SEQRPRIQELGDLYTPAPGRAESGPEKPHLNLWLEAPDLLAEVDLPKLDGALGLSLEIG  
ENRLVMGGPQQLYHLDAYIPLQINSHESKA AFHRKRKQLMVAMPLLPVPS

>sp|Q8WWB5|PIHD2\_HUMAN PIH1 domain-containing protein 2 OS=Homo sapiens GN=PIHD2 PE=1 SV=1

METSSKGLLTQVTQFWNLLDDLAQSDPEGYEKFIQQQLKEGKQLCAAPEPQLCLQTRILK  
PKEKILFINLCQWTRIPAPQSTTHPVPLTVGKPEDTTEISDAYTVIDVAYNPDLHAAEK  
DQVKKNQLIQMAMKCIEEKQFTLSHSYHITKFRIKGSIQRMKQNL MGIQTDSIDLREKM  
RRELTLGQIRSSTMSNPDHFPQLLLPKDQVSGKAVCLIEEISSTEIQVEMKMPAYELKIV  
HDHSEKPLKIELKVELPGINSVSLCDLSVSEDDLLIEVSEKYRLHLNLPKLIDTEMTTAK  
FIKEKSTLIITMPLV

>sp|Q9UKJ0|PILRB\_HUMAN Paired immunoglobulin-like type 2 receptor beta OS=Homo sapiens GN=PILRB PE=1 SV=1

MGRPLLLPLLLLQPPAFLQPGGSTGSGPSYLYGVTQPKHLSASMGSVEIPFSFYYPWE  
LAIVPNVRISWRRGHFHGQSFYSTRPPSIHKDYVNRLFLNWT EGQESGFLRISNLRKEDQ  
SVYFCRVELDTRRSRQQLQSIKGTKLTITQAVTTTTTWRPSSTTTIAGLRVTESKGHSE  
SWHLSLDTAIRVALAVVLKTVILGLLCLLLWRRRKGSRAPSSDF

>sp|Q9P1W9|PIM2\_HUMAN Serine/threonine-protein kinase pim-2 OS=Homo sapiens GN=PIM2 PE=1 SV=1

MLTKPLQGPPAPPGTPTPPPGGKDREAFAEYRLGPLLKGGGFTVFAGHRLTDRLQVAI  
KVIPRNRVLGWSPLSDSVTCPLEVALLWKVGAGGGHPGVIRLLDWFETQEGFMLVLERPL  
PAQDLFDYITEKGPLGEGPSRCFFGQVVAIIQHCHSRGVVHRDIKDENILIDLRRGCAKL  
IDFGSGALLHDEPYTDFDGRVYSPPEWISRHYHALPATVWSLGILLYDMVCGDIPFER  
DQEILEAELHFPAAHVSPDCCALIRRCLAPKPSSRPSLEEILLDPWMQTPAEDVPLNPSKG  
GPAPLAWSLLP

>sp|P12273|PIP\_HUMAN Prolactin-inducible protein OS=Homo sapiens GN=PIP PE=1 SV=1  
MRLQLLLFRASPATLLLVLCQLGANKAQDNTRKII IKNFDIPKSVRPNDEVTAVLAVQT  
ELKECMVVKTYLISSIPLQGAFNYKYTACLDDNPKTFYWDFTNRTVQIAAVVDVIREL  
GICPDAAVPIKNNRFYTIIEILKVE

>sp|POC851|PIRT\_HUMAN Phosphoinositide-interacting protein OS=Homo sapiens GN=PIRT PE=2  
SV=2  
MTMETLPKVLEVDEKSPEAKDLLPSQTASSLCISSRSESVWTTTPRSNWEIYRKPIVIMS  
VGGAILLFGVVITCLAYTLKLSDKSLSILKMVGPGFLSLGLMMLVCGLVVWPPIIKKKQKH  
RQKSNFLRSLKSFFLTR

>sp|Q9NPJ4|PNRC2\_HUMAN Proline-rich nuclear receptor coactivator 2 OS=Homo sapiens  
GN=PNRC2 PE=1 SV=1  
MGGGERYNIPAPQSRNVSKNQQLNRQKTKEQNSQMKIVHKKKERGHGYNSSAAAWQAMQ  
NGGKNKNFPNNQSWNSSLSGPRLLFKSQANQNYAGAKFSEPPSPSVLPKPPSHWVPVSFN  
PSDKEIMTFQLKTLLKVQV

>sp|P14859|PO2F1\_HUMAN POU domain, class 2, transcription factor 1 OS=Homo sapiens  
GN=POU2F1 PE=1 SV=2  
MNNPSETSKPSMESGDGNTGTQTNGLDFQKQPVVPVGAISTAQAQAFGLHLHQVQLAGTS  
LQAAAQSLNVQSKSNEESGDSQQPSQPSQPSVQAAIPQTQLMLAGGQITGLTLTPAQQQ  
LLLQQAQAQALLAAAVQQHSASQQHSAAGATISASAATPMTQIPLSQPIQIAQDLQQLQ  
QLQQQNLLNQFVLVHPTTNLQPAQFIISQTPQGQGLLQAQNLTLQLPQQSQANLLQSQ  
PSITLTSQPATPRTIAATPIQTL PQSQSTPKRIDTPSLEEPSDLEEELEQFAKTFKQRRRI  
KLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPLLEKWLND AENLSSDS  
SLSSPSALNSPGIEGLSRRRKKRTSIETNIRVALEKSFLENQKPTSEEITMIADQLNMEK  
EVIRVWFCNRRQKEKRINPPSSGGTSSSPIKAIFPSPTSLVATTPSLVTSSAATTLTVSP  
VLPLTSAAVTNLSVTGTSDDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEASSA  
SETSTTQTSTPLSSPLGTSQVMVTASGLQTA AAAALQGAAQLPANASLAAMAAAAGLNP  
SLMAPSQFAAGGALLSLNPGTSLGALSPALMSNSTLATIQALASGGSLPITSLDATGNLV  
FANAGGAPNIVTAPLFLNPQNL SLLTSNPVSLVSAAAASAGNSAPVASLHATSTSAESIQ  
NSLFTVASASGAASTTTTASKAQ

>sp|Q9UKI9|PO2F3\_HUMAN POU domain, class 2, transcription factor 3 OS=Homo sapiens  
GN=POU2F3 PE=2 SV=3  
MVNLESMHTDIKMSGDVADSTDARSTLSQVEPGNDRNGLDFNRQIKTEDLSDSLQQTL SH  
RPCHLSQGPAMMSGNQMSGLNASPCQDMASLHPLQQLVLVPGHLQSVSQFLLSQTQPGQQ  
GLQPNLLFPFQQQSGLLLPQTGPGLASQAFGHPGLPGSSLEPHLEASQHLVPVKHLPSSG  
GADEPSDLEEELEKFAKTFKQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFK  
NMCKLKPLLEKWLND AESSPSDPVSSTPSSYPSLSEVFGRKRKKRTSIETNIRLTLEKRF  
QDNPKPSSEEISMIAEQLSMEKEVVRVWFCNRRQKEKRINCPVATPIKPPVYNSRLVSPS  
GSLGPLSVPPVHSTMPGTVTSSCSPGNNSRPSSPGSLHASSPTASQNNSKAAVNSASSF

NSSGSWYRWNHSTYLH

>sp|Q01851|PO4F1\_HUMAN POU domain, class 4, transcription factor 1 OS=Homo sapiens  
GN=POU4F1 PE=2 SV=4

MMSMNSKQPHFAMHPTLPEHKYPSLHSSSEAIRRACLTPPLQSNLFASLDETLLARAEA  
LAAVDIAVSQGKSHPFKPDATYHTMNSVPCTSTSTVPLAHHHHHHHHHQALEPGDLLDHI  
SSPSLALMAGAGGAGAAAGGGGAHDGPGGGGGPGGGGGPGGGGGGGPGGGGGPGG  
GLLGSAHPHPMHSLGHLSPAAAAAMNMPSGLPHPGLVAAAAHHGAAAAAAAAAGQV  
AAASAAAVVGAAGLASICDSDDPRELEAFAERFKRRRIKLGVTQADVGSALANLKIPG  
VGSLSQSTICRFESLTLSHNNMIALKPILQAWLEEAEGAQREKMNKPELFNGGEKKRKRT  
SIAAPEKRSLEAYFAVQPRPSSEKIAAIAEKLDLKNVVRVWFCNQRQKQKRMKFSATY

>sp|Q8WVV4|POF1B\_HUMAN Protein POF1B OS=Homo sapiens GN=POF1B PE=1 SV=3

MSSSYWSETSSSSCGTQQLPEVLQCQPQHYHCYHQSSQAQPPPEKNVYERVRTYSGPMN  
KVVQALDPFNSREVLSPKTTSSYQNLVWSDHSQELHSPTLKISTCAPSTLHITQNTQE  
LHSPTVKLTTPYQTTIRKYVVQNPQEPLSQFLRGSHFFPGNNVIYEKTIRKVEKLNDQ  
GCHPQAQCHHHIIQQPQVIHSAHWQQPDSSQIQAITGNNPISTHIGNELCHSGSSQICE  
QVI IQDDGPEKLDPRYFGELLADLSRKNTDLYHCLLEHLQRIGGSKQDFESTDESEDIES  
LIPKGLSEFTKQKIRYILQMRGMSDKSLRLVLSTFSNIREELGHLQNDMTSLENDKMRLE  
KDLSFKDTQLKEYEELLASVRANHHQQQGLQDSSSKCQALEENNLRLRHTLSDMEYRLK  
ELEYCKRNLEQENQNLRMQVSETCTGPMQLAKMDEIGNHYTEMVKNLRMEKDREICRLRS  
QLNQYHKDVSKREGSCSDFQFKLHELTSLEEKDSLKRQSEELSKLRQEIYSSHNQ PST  
GGRTTITTKKYRTQYPILGLLYDDYEIIPPGSETQTIVIEKTEDKYTCP

>sp|Q9NUX5|POTE1\_HUMAN Protection of telomeres protein 1 OS=Homo sapiens GN=POT1 PE=1  
SV=1

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKTCL  
LFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITSSGFASLTFEGTLGAPIIPTSS  
KYFNFTTEDHKMVEALRVWASTHMSPSWTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFL  
LKVWDGTRTPFPSWRVLIQDLVLEGDLSHIHLQNLITIDILVYDNHVVHVARSLKVGSLR  
IYSLHTKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLESANLTAN  
QHSDVICQSEPDDSFSSGSVSLYEVECCQLSATILTDHQYLERTPLCAILKQKAPQQY  
RIRAKLSYKPRRLFQSVKLHCPKCHLLQEVPEGLDIIIFQDGATKTPDVKLQNTSLYD  
SKIWTTKNQKGRKVAHVFKVNGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGH  
EDLELDLSAPFLIQGTIHHYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQY  
VFVMTFTLDDGTGVLEAYLMSDSKFFQIPASEVLMDDDLQKSVDMMIMDMFCPPGIKIDAY  
PWLECFIKSYNVTNGTDNQICYQIFDITVAEDVI

>sp|Q6PJE2|POZP3\_HUMAN POM121 and ZP3 fusion protein OS=Homo sapiens GN=POMZP3 PE=2 SV=4

MVCSPVTLRIAPPDRRFSRSAIPEQIISSTLSSPSSNAPDCAKETVLSALKEKKKKRTV  
EEEDQIFLDGQENKRSCLVDGLTDASSAFKVPRPGPDTLQFTVDVFHFANDSRNMIYITC  
HLKVTLAEQDPDELNKACFSKPSNSWFPVEGLADICCCNKGDCGTPSHSRRQPRVVSQ  
WSTSASL

>sp|Q96C90|PP14B\_HUMAN Protein phosphatase 1 regulatory subunit 14B OS=Homo sapiens  
GN=PPP1R14B PE=1 SV=3

MADSGTAGGAALAAPAPGPGSGGPGPRVYFQSPPGAAGEGPGGADDEGPVRRQGVTVKY  
DRKELRKRLNLEEWILEQLTRLDYCQEEIPELEIDVDELDMESDDARAARVKELLVDC  
YKPTEAFISGLLDKIRGMQKLSTPQKK

>sp|P36873|PP1G\_HUMAN Serine/threonine-protein phosphatase PP1-gamma catalytic subunit  
OS=Homo sapiens GN=PPP1CC PE=1 SV=1

MADLDKLNIDSIIQRLLLEVRSKPGKNVQLQENEIRGLCLKSREIFLSQPILLELEAPLK  
ICGDIHGQYYDLLRLFYEGFPPESNYFLGDYVDRGKQSLETICLLLAYKIKYPENFFL  
LRGNHECASINRIYGFYDECKRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDL  
QSMEQIRIRMRPTDVPDQGLLCDLLWSDPKDVLGWGENDRGVSFTFGAEVVAKFLHKHD  
LDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGAMMSVDETLMCSFQILKPAE  
KKKPNATRPTVTPRGMITKQAKK

>sp|E7EU14|PP5D1\_HUMAN Protein PPP5D1 OS=Homo sapiens GN=PPP5D1 PE=2 SV=2

MAEMRAWRPLVRPSLQCVKLGRATARWWWVVKVPHDKDAKMKYQECNKIVKQKAFAIRAI  
AGDEHKRSVVDSDLIESMTIEGEYSGPKLEDDKVTITFMKGLMQWYKDQKKLHQKCAAYQG  
LALSPRLKCSGTITAHCSLNLGPRDPPTSASQVAVTEGMHHHTWLIFLFL

>sp|Q9UPN7|PP6R1\_HUMAN Serine/threonine-protein phosphatase 6 regulatory subunit 1  
OS=Homo sapiens GN=PPP6R1 PE=1 SV=5

MFWKFDLHTSSHLDTLLEREDLSLPELLDEEDVLQECKVVRKLLDFLLQPPHLQAMVAW  
VTQEPPDSGEERLRYKYPVACEILTSQVQINDALGADESLLNRLYGFLQSTGSLNPLL  
ASFFSKVMGILINRKTDLVSFLRKKDDFVDDLQHHIGTSAIMDLLRLTLCVERPQLRQ  
DVVNWLNEEKIVQRLIEQIHPSKDENVHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLA  
TLEKQETIEQLLSNMFEGEQSVIVSGIQVLLTLEPRRPRSESVTVNSFFSSVDGQLE  
LLAQGALESTVSSVGALHALRPLRSCFHQLLEPPKLEPLQMTWGMLAPPLGNTRLHVVK  
LLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSS  
PETPIQNPVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTK  
GPNAEQRLQLKELPSEQQEQWEAFVSGPLAETNKKNMVDLVNTHHLHSSSDEDDRLKE  
FNFPEEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFGEQEEVSNAFPDKTANITFSLNAD  
DENPNANLLEICYKDRIQQFDDDEEEDEEEEAQSGGESDGEDGAWQGSQ LARGARLGQPP  
GVRSGGSTDSEDEEEDEEEDEEEDGIGCAARGGATPLSYSPGPQPPGPSWTATFDVPV  
TDAPTSRVS GEEELHTGPPAPQGPLSVPQGLPTQSLASPPARDALQLRSQDPTPPSAPQ  
EATEGSKVTEPSAPCQALVSIQDLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQT  
TEGEKSPEPLGLPQSQAQALTPPPIPNGSAPEGPASPGSQ

>sp|075170|PP6R2\_HUMAN Serine/threonine-protein phosphatase 6 regulatory subunit 2  
OS=Homo sapiens GN=PPP6R2 PE=1 SV=2

MFWKFDLNTTSHVDKLLDKEHVTLQELMDEDDILQECKAQNKLLDFLCRQQCMEELVSL  
ITQDPPLDMEEKVRFKYPNTACELLTCQVQISDRLGDESLLSLLYDFLDHEPPLNPLL  
ASFFSKTIGNLIARKTEQVITFLKKKDKFISLVLKHIGTSALMDLLRLVSCVEPAGLRQ  
DVLHWLNEEKVIQRLVELIHPSQDEDRQSNASQTLCDIVRLGRDQGSQ LQEALEPDPLLT  
ALESQDCVEQLLKNMFDGDRTESCLVSGTQVLLTLETRRVGTEGLVDSFSQGLERSYAV  
SSSVLHGIEPRLKDFHQLLLNPPKKKAILTTIGVLEEPLGNARLHGARLMAALLHTNTPS  
INQELCRLNTMDLLDLFFKYTWNNFLHFQVELCIAAILSHAAREERTEASGESERVEPP  
HENGNRSLQTPQASLPDNTMVTHLFQKCCLVQRILEAWEANDHTQAAGGMRRGNMGHL  
TRIANAVVQNLERGPVQTHISEVIRGLPADCRGRWESFVEETLTETNRRNTVDLVSTHHL  
HSSSEDEDEIEGAFPNELSLQAFSDYQIQMTANFVDQFGFNDEEFADQDDNINAPFDRI  
AEINFNIDADEDSPSAALFEACCSDRIQPFDDDEDEDIWEEDSDTRCAARVMARPRFGAPH  
ASESCSKNGPERGGQDGKASLEAHRDAPGAGAPPAPGKKEAPPVEGDSEGAMWTAVFDEP  
ANSTPTAPGVVRDVGSSVWAAGTSAPEEKGWAKFTDFQPFCCSESGPRCSPVDTECSHA

EGSRSQGPEKASQASYFAVSPASPCAWNVCVTRKAPLLASDSSSSGGSHSEDGDQKAASA  
MDAVSRGPGREAPPLPTVARTEEA VGRVGCADSRLSPACPAPKEVTAAPAVAVPPEATV  
AITTALSKAGPAIPTPAVSSALAVAVPLGPIMAVTAAPAMVATLGTVTKDGTKDAPPEGA  
ALNGPV

>sp|P11117|PPAL\_HUMAN Lysosomal acid phosphatase OS=Homo sapiens GN=ACP2 PE=1 SV=3

MAGKRSGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLTRYHGRSPVKTYPKDPYQEEE  
WPQGFGLTKEGMLQHWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAG  
LFPPNGMQRFNPNISWQIPVHTVPI TEDRLKFP LGPCPRYEQLQNETRQTPEYQNESS  
RNAQFLDMVANETGLTDLTLETVWNVYDTL FCEQTHGLRLPPWASPQTMQRLSRLKDFS  
RFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY  
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEP  
VVPKDWQEQCLASGPADTEVIVALAVCGSILFLLIVLLLTVLFRMQAQQPPGYRHVADGE  
DHA

>sp|P23284|PIIB\_HUMAN Peptidyl-prolyl cis-trans isomerase B OS=Homo sapiens GN=PIIB PE=1  
SV=2

MLRLSERNMKVLLAAALIAGSVFFLLPGPSAADEKKKGPKVTVKVYFDLRIGDEDVGRV  
IFGLFGKTVPKTVDNFVALATGEKGFGYKNSKFHRVIKDFMIQGGDFTRGDGTGGKSIYG  
ERFPDENFKLKHYGPWVSMANAGKDTNGSQFFITTVKTAWLDGKHVVFGKVLEGMEVVR  
KVESTKTDSRDKPLKDVIIADCGKIEVEKPFIAIAKE

>sp|Q13356|PPIL2\_HUMAN Peptidyl-prolyl cis-trans isomerase-like 2 OS=Homo sapiens  
GN=PPIL2 PE=1 SV=1

MGKRQHQQDKMYITCAEYTHFYGGKKPDLPQTNFRRLPFDHCSLSLPFVYPVCTPDGIV  
FDLLNIVPWLKKYGTNPNGEKL DGRSLIKLNFSKNSEGKYHCPVLFVFTNNTHIVAVR  
TTGNVYAYEAVEQLNIKAKNFRDLLTDEPFSRQDIITLQDPTNLDFNVSNFYHVKNNMK  
IIDPDEEKAKQDPSYLLKNTNAETRETQLQELYKEFKGDEILAATMKAPEKKKV DKLNAAH  
YSTGKVSASFTSTAMPETTHEAAAIDEDVLR YQFVKKKG YVRLHTNKGDLNLELHCDLT  
PKTCENFIRLCKKHYYDGTIFHRSIRNFVIQGGDPTGTGTGGESYWGKPFKDEF RPNLSH  
TGRGILSMANSGPNSNRSQFFITFRSCAYLDKKHTIFGRVVGGFDVLTAMENVESDPKTD  
RPKEEIRIDATTVFDPYEEADAQIAQERKTQLKVAPETKV KSSQPQAGSQGPQTFRQGV  
GKYINPAATKRAAEEEPSTSATVPMSKKKPSRGFGDFSSW

>sp|O43586|PPIP1\_HUMAN Proline-serine-threonine phosphatase-interacting protein 1 OS=Homo  
sapiens GN=PSTPIP1 PE=1 SV=1

MMPQLQFKDAFWCRDFTAHTGYEVLLQRLLDGRKMCKDMEELLRQRAQAEERYGKELVQI  
ARKAGGQTEINSLRASFD SLKQQMENVGSSHIQLALTLREELRSLEEFRERQKEQRKKYE  
AVMDRVQKSKLSLYKKAMESKKT YEQKCRDADDAEQAFERISANGHQKQVEKSQNKARQC  
KDSATEAERVYRQSI AQLKVR AEWEQEHR TTCEAFQLQEFDRLTILRNALWVHSNQLSM  
QCVKDDLEYEEVRLTLEGCSIDADIDSFIQAKSTGTEPPAPVPYQNYDREVTPLTSSPG  
IQPSCGMIKRFGSL LHGSPKTTSLAASA TETLTPTPERNEG VYTAIAVQEIQGNPASP  
AQEYRALYDYTAQNPDELDLSAGDILEVILEGEDGWWTVERNQGRGFVPGSYLEKL

>sp|Q5SGD2|PPM1L\_HUMAN Protein phosphatase 1L OS=Homo sapiens GN=PPM1L PE=1 SV=1

MIEDTMTLLSLLGRIMRYFLLRPETLFLLCISLALWSYFFHTDEVKTIVKSSRDAVKMVK  
GKVAEIMQNDRLGGLDVLEAEFSKTWEFKNNHVAVYSIQGRRDHMEDRFEVLTDLANKTH  
PSIFGIFDGHGGETAAEYVKSR LPEALKQHLQDYEKDKENSVLSYQTILEQQILSIDREM  
LEKLT VSYDEAGTTCLIALLSKDLTVANVGDSRGVLC DKDGNAIPLSHDHKPYQLKERK



RIKRAGGFISFNQSWRVQGILAMSRSLGDYPLKNLNVVIPDPDILTFDLQPEFMILA  
SDGLWDAFSNEEAVERFIKERLDEPHFGAKSIVLQSFYRGCPDNITVMVVKFRNSSKTEEQ  
>sp|Q96MI6|PPM1M\_HUMAN Protein phosphatase 1M OS=Homo sapiens GN=PPM1M PE=2 SV=1  
MHLNGRCICPSDPQFVEEKGIRAEDLVIGALESQFQECDEVIGRELEASQMGGCTALVA  
VSLQGKLYMANAGDSRAILVRRDEIRPLSFETPETERQRIQQALFVYPELLAGEFTRLE  
FPRRLKGGDLGQKVLFRDHMSGWSYKRVEKSDLKYPLIHGQGRQARLLGTLAVSRGLGD  
HQLRVLDLTNIQLKPFLLSVPQVTVLDVDQLELQEDDVVVMATDGLWDVLSNEQVAWLVR  
FLPGNQEDPHRYCSCWGPAAWVGASSKPK

>sp|Q8N819|PPM1N\_HUMAN Probable protein phosphatase 1N OS=Homo sapiens GN=PPM1N PE=2 SV=2  
MAVLARQLQRLLWTACKKKEREKEGEEEEEEAGRRAPGPRSLLTAPRRAQRPHGGAE  
ASGGLRFGASAAQWRARMEDAHCTWLSLPLPGWALFAVLDDHGGARAARFGARHLP  
HVLQELGPEPSEPEGVREALRRAFLSADERLRSLWPRVETGGCTAVVLLVSPRFLYLAHC  
GDSRAVLSRAGAVAFSTEDHRPLRPRERERHAAGGTIIRRRRVEGSLAVSRALGDFTYKE  
APGRPELQLVSAEPEVAALARQADEFMLLASDGVWDTVSGAALAGLVASRLRLGLAPE  
LLCAQLLDTCLCKGSLDNMTCILVCFPGAPRPEEAIRRELALDAALGCRIAELECSAQK  
PPSLNTVFRTLASEDIPDLPPGGGLDCKATVIAEVYSQICQVSEECGEKGQDGAGKSNPT  
HLGSALDMEA

>sp|O95428|PPN\_HUMAN Papilin OS=Homo sapiens GN=PAPLN PE=2 SV=4  
MRLLLLVPLLLAPAGSSAPKVRQSDTWGPWSQWSPCSRTC GGVSFRERPCYSQRRDG  
GSSCVGPARSHRSCRTECPDGARDFRAEQCAEFDAEFQGRRYRWLPYSA PNKCELNC  
IPKGENFYKHKREAVDGTPECPGKRDVCVDGSCR VVGDHEDSSKQEDKCLRCGGDGT  
TCYPVAGTFDANDLSRGYNQILIVPMGATSILIDEAAASRNFLAVKNVRGEYYLNGHWI  
EAARALPAASTILHYERGAEGDLAPERLHARGPTSEPLVIELISQEPNPGVHYEYHLPLR  
RPSGFSWSHGWSDCSAECGGGHQSRLVFCTIDHEAYPDHMCQRQPRPADRRSCNLHPC  
PETKRWKAGPWAPCSASC GGGSQSRSVYCISSDGAGIQEAVEEAECAGLP GKPPAIQACN  
LQRCAAWSPEPWGECSVSCGVGRKRSVTCRGERGSL LHTAACSLDRPPLTEPCVHEDC  
PLSDQAWHVGTWGLCSKSCSSGTRRRQVICAIGPPSHCGSLQHSKPV DVEPCNTQPCHL  
PQEVPSMQDVHTPASNPWMLPGQESPASDSRGQWAAQEHP SARGDHRGERGDPRGDQG  
THLSALGPAPSLQPPYQQPLRSGSGPHDCRHSPHGCCPDGHTASLGPQWQGC PGAPCQQ  
SRYGCCPD RVSAEGPHHAGCTKSYGGDSTGGMPRSRAVASTVHNTHQPQAQQNEPSECR  
GSQFGCCYDNVATAAGPLGEGCVGQPSHAYPVRCLLP SAHGSCADWAARWYFVASVGQC  
NRFWYGGCHGNANNFASEQECMSSCGSLHGPRRPQPGASGRSTHTDGGGSSPAGEQEPSQ  
HRTGA AVQRKPWPSGGLWRQDQPGPGEAPHTQAFGEWPWGQELGSRAPGLGGDAGSPAP  
PFHSSSYRISLAGVEPSLVQAALGQLVRLSCSDDTAPESQA AWQKDGQPISSDRHRLQFD  
GSLIIHPLQAEDAGTYSCGSTRPGRDSQKIQLRIIGDMAVLSEAELSRFPQPRDPAQDF  
GQAGAAGPLGAIPSSHPQANRLRLDQNPVRVVDASPGQIRMT CRAEGFPPPAIEWQRD  
GQPVS SPRHLQPDGSLVISRVAEDGGFYTCVAFNGQDRDQRWVQLRVLGELTISGLPP  
TVTVP EGDARLLCVVAGESVNIRWSRNLVPQADGHRVHQSPDGTLLIYNLRARDEGSY  
TCSAYQGSQAVSRSTEVKVVSPAPTAQPRDPGRDCVDQPELANCDLILQAQLCGNEYYS  
SFCCASCSRFQPHAQPIWQ

>sp|Q9UD71|PPR1B\_HUMAN Protein phosphatase 1 regulatory subunit 1B OS=Homo sapiens  
GN=PPP1R1B PE=1 SV=2  
MDPKDRKKIQFSVPAPPSQLDPRQVEMIRRRRPTAMLFRLSEHSSPEEEASPHQRASGE  
GHHLKSKRPNPCAYTPPSLKAVQRIAESHLQSI SNLNENQASEEDELGELRELGYPREE

DEEEEEDEEEEEEDSQAELVKVIRQSAGQKTTGQGLEGPWERPPPLDESERDGGSED  
QVEDPALSEPGEERPQRPSPSEPGT

>sp|095685|PPR3D\_HUMAN Protein phosphatase 1 regulatory subunit 3D OS=Homo sapiens  
GN=PPP1R3D PE=1 SV=1

MSRGPSSAVLPSALGSRKLGPRSLSCLSLDLGGVALEPRACRPPGSPGRAPPPTPAPSGC  
DPRLRPILRRARSLPSSPERRQKAAGAPGAACRPGCSQKLVRVFADALGLELAQVKVFN  
AGDDPSVPLHVLRLAINSDLCCSSQDLEFTLHCLVPDFPPPVEAADFGERLQRQLVCLE  
RVTCSDLGISGTVRVCNVAFEKQVAVRYTFSGWRSTHEAVARWRGPAGPEGTEDVFTFGF  
PVPPFLEELGSRVHFAVRYQVAGA EYWDNNDHRDYSLTRNHALHMPRGECEESWIHFI

>sp|Q96BP3|PPWD1\_HUMAN Peptidylprolyl isomerase domain and WD repeat-containing protein  
1 OS=Homo sapiens GN=PPWD1 PE=1 SV=1

MAAESGSDFQRRRRRRDPEEPEKTELSERELAVAVAVSQENDEENEERWVGPLPVEATL  
AKKRKVLFEFERYLDNLPSASMYERSYMRDVIITHVCTKTDFIITASHDGHVKFWKKIE  
EGIEFVKHFRSHLGVIESIAVSSEGALFCSVGDDKAMKVFVDVNFDMINMLKLGYPGQC  
EWIYCPGDAISSVAASEKSTGKIFIYDGRGDNQPLHIFDKLHTSPLTQIRLNPVYKAVVS  
SDKSGMIEYWTGPPHEYKFKPNVNWEYKTDLDLYEFAKCKAYPTSVCFSPDGKKIATIGS  
DRKVRIFRFVTGKLMRVFDESLSMFTLQQMRQQLPDMEFGRRMAVERELEKVDVRLIN  
IVFDETGHFVLYGTMLGIKVINVETNRCVRILGKQENIRVMQLALFQGIKKHRAATTIE  
MKASENPVLQNIQADPTIVCTSFKKNRFYMTKREPEDTKSADSDRDVFNEKPSKEEVMA  
ATQAEGPKRVSDSAIHTSMGDIHTKLFPVECPKTVENFCVHSRNGYYNGHTFHRIIKGF  
MIQTGDPTGTGMGGESIWGGEFEDEFHSTLRHDPYTLSMANAGSNTNGSQFFITVVPTP  
WLDNKHTVFGRVTKGMEVVQRISNVKVNPKTDKPYEDVSIINITVK

>sp|Q5VWM3|PRA18\_HUMAN PRAME family member 18 OS=Homo sapiens GN=PRAMEF18 PE=3 SV=2

MSFQAPRRLELAGQSLLRDQALATSVLDELPRELFPPLFVEAFTSRRCEVLKVMVQAWP  
FPCLPLGSLMKTDPLEILHYVDGIDCLLAQKVRPRRWKLQVLEMRDVDENFWTIWSGAR  
LLSCSPEAMSKRQTVEDCPRTGEKQPLKVFMDVCLKEKFMDLEDLSFFSGWVQHRRGSVHL  
CCTKVVNYSMSILNFRNILETVYPDSIQVLEIWNMCWLCMIVEFSRYLSQMRNLRLKLFIS  
DGCRYLLSSDSQEQLVAEFSSVLLRLLENLQMLYVRRVCFFRGHLDQLIRCLRSPLETLAL  
TYGFLEEDLKCLPRYPSLSQLKQLNLSHGALRFIRLEPLRALLEKVAATLQTLFLVDCG  
IGYSKLRVILPALSRCSNLTTFCFHGNDTSMDALKDLLRHTGRLSNLSLETYPAPRESLD  
NRGRVILELLTPLQAELMRILREVREPKRIFFGPVSCPCCGTSPTEQLESNFCLWGRPA

>sp|A3QJZ6|PRA22\_HUMAN PRAME family member 22 OS=Homo sapiens GN=PRAMEF22 PE=3 SV=3

MRMSLQAPRRLELAGQSLLGDQALATISILDELPRELFPPLFVEAFTSRRCEVLKVMVQA  
WFPCLPLGSLMKTDPLEILHYVDGIDCLLAQKVRPRRWKLQVLELRDVDENFWTIWSG  
ARPLSCSPEAMSKRQTVEDCPRTGEKQPLKVFMDVCLKEKFMDLEDLSFFSGWVQHRRGSV  
HLCCTKVVNYSMSILNFRNILETVYPDSIQVLEIWNMCWPCMIVEFSRYLSQMRNLRLKLF  
ISDGCRYLLSSDSQEQLVAEFSSVLLRLEYLQMLYVRRVCFFRGHLDQLIRCLRSPLETL  
ALTGYFLEKVDLKCLPRYPSLSQLKQLNLSHGALRFIRLEPLRALLEKVAATLQTLFLVD  
CGIRDSKLRVILPALSCCSNLTTFCFHGNDTSMDGLKDLLRHTGRLSNLSLETYPAPRES  
LDDRGRVISELLTPLQAELMRILREVREPKRIFFGPVSCPCCGTSPTEQLEFNFLWGRP

A

>sp|Q9UI14|PRAF1\_HUMAN Prenylated Rab acceptor protein 1 OS=Homo sapiens GN=RABAC1 PE=1  
SV=1

MAAQKDQKDAEAEGLSGTTLLPKLIPSGAGREWLERRRATIRPWSTFVDQQRFSRPRNL

GELCQRLVRNVEYYQSNYVFVFLGLILYCVVTSPMLLVALAVFFGACYILYLRTLESKLV  
LFGREVSPAHHYALAGGISFPFFWLAGAGSAVFWVLGATLVVIGSHAAPHQIEAVDGEEL  
QMEPV

>sp|Q5VXH4|PRAM6\_HUMAN PRAME family member 6 OS=Homo sapiens GN=PRAMEF6 PE=2 SV=1

MSIRTPPRLLELAGRSLLRDQALAMSTLEELPTLFPPLFMEAFSRRRCEALKLMVQAWP  
FRRLPLRPLIKMPCLEAFQAVLDGLDALLTQGVHPRRWKLQVLDLQDVCENFWMVWSEAM  
ARGCFLNAKRNTKTPVQDCPRMRGQQPLTVFVELWLKNRTLDEYLTCLLLWVKQRKDLLHL  
CCKKLKILGMPFRNIRSILKMNLDLCIQEVEVNCKWVLPILTQFTPYLGHMRNLQKLVLS  
HMDVSRVVSPEQKKEIVTQFTTQFLKLCCLQKLSMNSVSFLEGHLDQLLSCLKTSKVLV  
ITNCVLLSDLKHLSQCPSISQLKTLDSLGIIRLTNYSLVPLQILLEKVAATLEYLDLDDC  
GIIDSQVNAILPALSRFELNTFSFCGNPISMATLENLLSHTIILKNLCVELYPAPRESY  
DADGTLCSRFQIRAEMLKRVRLRHPKRIILFCTDCCPDGNSFYDLEADQCCC

>sp|Q96QH2|PRAM\_HUMAN PML-RARA-regulated adapter molecule 1 OS=Homo sapiens GN=PRAM1 PE=1  
SV=2

MAHHLPAAMESHQDFRSIKAKFQASQPEPSDLPKPKPKPEFGKLKKFSQPELSEHPKKAP  
LPEFGAVSLKPPQPFTDLPKKPPPEVTDLPKPPPPPEVTDLPKPPPPPEVTDLPKPKP  
PPEVTDLPKPKPPPEVTDLPKPPPPPEVTDLPKPPPPPEVTDLPKPKSKLELSDLSKKFP  
QLGATPFPRKPLQPEVGEAPLKASLPEPGAPARKPLQPDLSHPARPPSEPKSGAFPRKL  
WQPEAGEATPRSPQPELSTFPKKPAQPEFNVYPKKPPQPQVGGLPKKSVPQPEFSEAAQT  
PLWKPKSSEPKRDSAFPKKASQPPLSDFPKPPQPELGDLTRTSSEPEVSVLPKRPRPA  
EFKALSKKPPQPELGGLPRTSSEPEFNSLPRKLLQPERRGPPRKFSQPEPSAVLKRHPQP  
EFFGDLPRKPPLPSSASESSLPAAVAGFSSRHPLSPGFGAAGTPRWRSGLVHSGGARPG  
LRPSHPPRRRPLPPASSLGHPAPPLPPGPVDMQSFRRPSAASIDLRRTSAAGLHFQD  
RQPEDIPQVPDEIYELYDDVEPRDSSSPSKGRDEAPSVQQAARRPPQDPALRKEKDPQP  
QQLPMPDKLLKQLRKAKEAREFRKKFKFEGEIVVHTKMMIDPNAKTRRGKGKHLGIRR  
GEILEVIEFTSNEEMLCRDPKGYGYVVRTALLPLETEVYDDVDFCDPLENQPLPLGR

>sp|P78395|PRAME\_HUMAN Melanoma antigen preferentially expressed in tumors OS=Homo  
sapiens GN=PRAME PE=1 SV=1

MERRRLWGSIQSRYISMSVWTSPPRLVELAGQSLLKDEALAIAALELLPRELFPPLFMAA  
FDGRHSQTLKAMVQAWPFTCLPLGVLMKGQHLHLETFAVLDGLDVLLAQEVRPRRWKLQ  
VLDLRKNSHQDFWTVWSGNRASLYSFPEPEAAQPMTKRKVDGLSTEAEQPFIPVEVLVD  
LFLKEGACDELFSLIEKVKRKNVLRCLCKKLKIFAMPMDIKMILKMVQLDSIEDLEV  
TCTWKLPTLAKFSPYLGQMINLRLLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCLQA  
LYVDSLFFLRGRDQLLRHVMNPLETLSITNCRLSEGDMHLSQSPSVSLSVLSLSGVM  
LTDVSPEPLQALLERASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSTFYGNSISI  
SALQSLLQHLIGLSNLTHVLYVPLESYEDIHGTLHLERLAYLHARLRELLCELGRPSMV  
WLSANPCPHCGDRTFYDPEPILCPCFMPN

>sp|Q04118|PRB3\_HUMAN Basic salivary proline-rich protein 3 OS=Homo sapiens GN=PRB3 PE=1  
SV=2

MLLILLSVALLALSSAQSLLNEDVSQEESPSVISGKPEGRRPQGGNQPQRTPPPPGKPEGR  
PPQGGNQSQGPPPRPGKPEGPPPGGNGSQGPPPRPGKPEGQPPQGGNQSQGPPPRPGK  
EGPPPGGNGSQGPPPRPGKPEGPPPGGNGSQGPPPHPGKPEGPPPGGNGSQGPPPRP  
GKPEGPPPGGNGSQGPPPRPGKPEGPPPGGNGSQGPPPRPGKPEGSPSQGGNKPQGGP  
PHPGKPGQGGPPQEGNKPQRP PPPGRPGPPPGGNGPQQPLPPAGKPQGGPPPGGGRPH

RPPQGQPPQ

>sp|043663|PRC1\_HUMAN Protein regulator of cytokinesis 1 OS=Homo sapiens GN=PRC1 PE=1 SV=2

MRRSEVLAEESIVCLQKALNHLREIWELIGIPEDQRLQRTEVVKKHIKELLDMMIAEEES  
LKERLIKSISVCQKELNTLCSELHVEPFQEEGETTILQLEKDLRTQVELMRKQKKERKQE  
LKLLEQEQDELCEILCMPHYDIDSASVPSLEELNQFRQHVTTLRETKASRREEFVSIKRQ  
IILCMEALDHTPDTSFERDVVCEDEDAFCLSLENIATLQKLLRQLEMQKSQNEAVCEGLR  
TQIRELWDRQLQIPEEEREAVATIMSGSKAKVRKALQLEVDRLEELKMQNMKKVIEAIRVE  
LVQYWDQCFYSQEQRAFAFPCAEDYTESLLQLHDAEIVRLKNYYEVHKELFEGVQKWEE  
TWRLFLEFERKASDPNRFNTRGGNLLKEEKQRAKLQKMLPKLEEELKARIELWEQEHSKA  
FMVNGQKFMYYVAEQWEMHRLEKERAKQERQLKNKKQTETEMLYGSAPRTPSKRRGLAPN  
TPGKARKLNTTMSNATANSSIRPIFGGTVYHSPVSRLPPSGSKPVAASTCSGKKTPTGT  
RHGANKENLELNGSILSGGYPGSAPLQRNFSINSVASTYSEFAKDPSLSDSSTVGLQREL  
SKASKSDATSGILNSTNIQS

>sp|Q9NQV5|PRD11\_HUMAN PR domain-containing protein 11 OS=Homo sapiens GN=PRDM11 PE=1 SV=2

MLKMAEPIASLMIVECRACLRCSPLFLYQREKDRMTENMKECLAQTNAAVGDMVTVVKTE  
VCSPLRDQEQGPCSRPDSSAMEVEPKKLKGRDLIVPKSFQQVDFWFCESCQEYFVDE  
CPNHGPPVFVSDTPVPVGIPDRAALTIPQGMVVKDTSGESDVRCVNEVIPKGHIFGPYE  
GQISTQDKSAGFFSWLIVDKNNRYKSIDGSDETKANWMRYVVISREEREQNLLAFQHSE  
IYFRACRDIRPGEWLRVWYSEDYMKRLHMSQETIHRNLARGEKRLQREKSEQVLNPD  
LRGPIHLSVLRQGKSPYKRGFDEGDVHPQAKKKKIDLIFKDVLEASLESAKVEAHLALS  
TSLVIRKVPKYQDDAYSQCATTMTGHVQNIQTQEGDWKVPQGVSKPEGQLEDEEEEPS  
SFKADSPAELASDPHELPTTSFCPNCIRLKKKVRELQAELDKSGKLPPEPVLPPQV  
LELPEFSDPAGKLVMRLLESEGRVRSGLCGG

>sp|Q9NRG1|PRDC1\_HUMAN Phosphoribosyltransferase domain-containing protein 1 OS=Homo sapiens GN=PRTFDC1 PE=1 SV=1

MAGSSEEAPDYGRGVVIMDDWPGYDLNLFTYPQHYYGDLEYVLIPHGIIVDRIERLAKDI  
MKDIGYSDIMVLCVLKGGYKFCADLVEHLKNISRNSDRFVSMKVDFIRLKSyrNDQSMGE  
MQIIGDDLSTLAGKNVLIVEDVVGTRTMKALLSNIKEYKPNMIKVASLLVKRTSRSDG  
FRPDYAGFEIPNLFVVGALDYNEYFRDLNHICVINEHGKEYRV

>sp|Q13029|PRDM2\_HUMAN PR domain zinc finger protein 2 OS=Homo sapiens GN=PRDM2 PE=1 SV=3

MNQNTTEPVAATETLAEVPEHVLRLGLEEVRLFPSAVDKTRIGVWATKPIKGGKFGPFV  
GDKKRSQVKNVYMWEVYYPNLGWMCIDATDPEKGNWLRVYNWACSGEEQNLFPLEINR  
AIYYKTLKPIAPGEELLVWYNGEDNPEIAAAIEEERASARSKRSSPKSRKGKKKSQENKN  
KGNKIQDIQLKTSEPDFTSANMRDSAEGPKEDEEKPSASALEQPATLQEVASQEVPPELA  
TPAPAWEPQPEPDERLEAAACEVNDLGEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE  
NENSVKEPEIRCDEKPEDLLEPKTTSEETLEDCEVTPAMQIPRTKEEANGDVFETFMF  
PCQHCEKFTTKQGLERHMHIIHISTVNHAFCCKYCGKAFGTQINRRRHERRHEAGLKRKP  
SQTLPSEDLADGKASGENVASKDDSSPPSLGPDCLIMNSEKASQDTINSSVVEENGEVK  
ELHPCKYCKKVFVGTHTNMRRHQRRVHERHLIPKGVRRKGGLEEQPPAEQAQATQNVYVP  
STEPEEEGEADDVYIMDISSNISNLNYYIDGKIQTNNNTSNCVDIEMESASADLYGINC  
LLTPVTVEITQNIKTQVPVTEDLPEKPLGSTNSEAKKRRASPPALPKIKAETSDPMV  
PSCSLSLPLSISTTEAVSFHKEKSVYLSKLLKQLLQTQDKLTPAGISATEIAKLGPVCVS

MAWKTLPITYLLLLLSVFVIQQVSSQDLSSCAGRCGEGYSRDATCNCQHYMECCPDF  
KRVCTAELSCKGRCFESFERGRECDCAQCKKYDKCCPDYESFCAEVHNPTSPPPSSKKAP  
PPSGASQTIKSTTKRSPKPPNKKKTKKVIESEEITEEHSVSENQESSSSSSSSSSSTIR  
KIKSSKNSAANRELQKKLKVKDNKKNRKTKKPTPKPPVDEAGSLDNGDFKVTTPDST  
TQHNVSTSPKITTAKPINRPSLPPNSDTSKETSLTVNKETTVEKETTTTNKQTSTDG  
KEKTTSAKETQSIEKTSAKDLAPTskVLAKPTPKAETTTKGPALTPKEPTPTTPKEPAS  
TTPKEPTPTTIKSAPTTPKEPAPTTTKSAPTTPKEPAPTTTKEAPTTPKEPAPTTTKEP  
APTTTKSAPTTPKEPAPTTPKKPAPTTPKEPAPTTPKETPTTPKEAPTTKEAPTTPK  
EPAPTAPKKAPTTPKEPAPTTPKEPAPTTTKEPSPTTPKEAPTTTKSAPTTTKEAP  
TTKSAPTTPKEPSPTTTKEAPTTPKEPAPTTPKKPAPTTPKEPAPTTPKEPAPTTTKK  
APTTPKEAPTTPKETAPTTPKKLTPTTPEKLAPTTPEKAPTTPEELAPTTPEEPTPTT  
PEEPAPTTPKAAAANTPKEPAPTTPKEPAPTTPKEPAPTTPKETAPTTPKGTAPTTLKEP  
APTTPKKPAPKELAPTTTKEPTSTTCDKAPTTPKGTAPTTPKEPAPTTPKEPAPTTPKG  
TAPTTLKEAPTTPKKPAPKELAPTTTKGPTSTTSDKAPTTPKETAPTTPKEPAPTTPK  
KPAPTTPETPPPTTSEVSTPTTTKEPTTIHKSPDESTPELSAEPKALENSPKEPGVPT  
TKTPAATKPEMTTAKDKTTERDLRTTPETTTAAPKMTKETATTTTEKTTESKITATTTQV

TSTTTQDTTPFKITTLKTTTLAPKVTTTCKTITTTTEIMNKPEETAKPKDRATNSKATTPK  
PQKPTKAPKKPTSTKKPKTMPVRVKPKTTPTRKMTSTMPELNPTSRIAEAMLQTTTRPN  
QTPNSKLVEVNPKSEDAGGAEGETPHMLLRPHVFMPEVTPDMDYLPRVPNQGIINPMLS  
DETNICNGKPDGLTTLRNGTLVAFRGHYFWMLSPFSPSPARRITEVWGIPSPIDTVFT  
RCNCEGKTFFFKDSQYWRFTNDIKDAGYKPIFKGFGGLTGQIVAALSTAKYKNWPESVY  
FFKRGGSIQQYIYKQEPVQKCPGRRPALNYPVYGETTQVRRRRFERAIGPSQTHTIRIQY  
SPARLAYQDKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKPDGYDYAFAFSKDQYYNIDV  
PSRTARAITTRSGQTLSKVWYNCP

>sp|043900|PRIC3\_HUMAN Prickle-like protein 3 OS=Homo sapiens GN=PRICKLE3 PE=1 SV=2

MFARGSRRRRSGRAPPEAEDPDRGQCNSCREQCPGFLHGWKICQHCKCPREEHAVHA  
VPVDLERIMCRLISDFQRHSISDDSGCASEEYAWVPPGLKPEQVYQFFSCLPEDKVPYV  
NSPGEKYRIKQLLHQLPPHDSEAQYCTALEEEEEKKELRAFSQQRKRENLRGIVRIFPVT  
ITGAICEECGKQIGGGDIADFASRAGLGACWHPQCFCVCTTCQELLVDLIYFYHVGKVCYCG  
RHHAELRPRCQACDEIIFSPECTEAEGRHWHMDHFCCFECEASLGGQRYVMRQSRPHCC  
ACYEARHAEYCDGCGEHIGLDQGMAYEGQHWASDRCFCCSRCGRALLGRPFLPRRGLI  
FCSRACSLGSEPTAPGPSRRSWSAGPVTAPLAASFSASVKGASETTTKGTSTELAPAT  
GPEEPSRFLRGAPHRHSMPELGLRSVPEPPESPQGPNLRPDDSAFGRQSTPRVSFRDPL  
VSEGGPRRTLSAPPAQRRRPRSPPPRAPSRRRHHHHHHHHHHNRHPSRRRHYQCDAGSGS  
DSESCSSSPSSSSSEDDGFFLGERIPLPHLCRMPAQDTAMETFNPSLSLPRDSR  
AGMPRQARDKNCIVA

>sp|060260|PRKN2\_HUMAN E3 ubiquitin-protein ligase parkin OS=Homo sapiens GN=PARK2 PE=1 SV=2

MIVFVRFNSSHGFPVEVSDTSIFQLKEVVAKRQGVADQLRVIFAGKELRNDWTVQNCD  
LDQQSIVHIVQRPWRKGQEMNATGGDDPRNAAGGCEREQSLTRVDLSSSVLPGDSVGLA  
VILHTDSRKDSPPAGSPAGRSIYNSFYVYCKGPCQRVQPGKLRVQCSTCRQATLTLTQGP  
SCWDDVLI PNRMSEGCQSPHCPGTSAEFFKCGAHPTSDKETSVALHLIATNSRNITCIT  
CTDVRSPVLVFQCNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPCVAGCPNSLIKE  
LHHFRILGEEQYNRYQQYGAEECVLQMGVLCPRPGCGAGLLPEPDQRKVTCEGGNGLGC  
GFAFCRECKEAYHEGECSAVFEASGTTTQAYRVDERA AEQARWEAASKETIKKTKPCPR  
CHVPVEKNGGCMHMKCPQPQCRLEWCWNCGEWNRVCMGDHWFVDV

>sp|P49683|PRLHR\_HUMAN Prolactin-releasing peptide receptor OS=Homo sapiens GN=PRLHR PE=1 SV=3

MASSTTRGPRVSDLFSGLPVAVTTPANQSAEASAGNGSVAGADAPVTPFQSLQLVHQLK  
GLIVLLYSVVVVVGLVGNCLLVLIARVRRLHNVTNFLIGNLALSDVLMCTACVPLTLAY  
AFEPRGWVFGGLCHLVFLQPVTVYVSFVTLTTIAVDRYVVLVHPLRRRISLRLSAYAV  
LAIWALSAVLALPAAVHTYHVELKPHDVRLCEEFGWSQERQRQLYAWGLLLVTYLLPLL  
ILLSYVRVSVKLRNRVVPVCVTQSQADWDRARRRRRTFCLLVIVVFAVCWLPLHVFNLL  
RDLDPHAIDPYAFLVQLLCHWLAMSSACYNPFIYAWLHDSFREELRKLVAWPRKIAPH  
GQNMTVSVVI

>sp|P01236|PRL\_HUMAN Prolactin OS=Homo sapiens GN=PRL PE=1 SV=1

MNIKGSPWKGSLLLLLVSNLLLCQSVAPLPICPGAARCQVTLRDLFDRAVVLSHYIHNL  
SSEMFSEFDKRYTHGRGFITKAINSCHTSSLATPEDKEQAQMNQKDFLSLIVSILRSWN  
EPLYHLVTEVRGMQEAPEAILSKAVEIEEQTKRLLGEMELIVSQVHPETKENEIYPVWSG  
LPSLQMADEESRLSAYYNLLHCLRRDSHKIDNYLKLLKCRIIHNNNC

>sp|P35080|PROF2\_HUMAN Profilin-2 OS=Homo sapiens GN=PFN2 PE=1 SV=3

MAGWQSYVDNLMCDGCCQEAIVGYCDAKYVWAATAGGVFQSITPIEIDMIVGKDREGFF  
TNGLTLGAKKCSVIRDSLYVDGCTMDIRTKSQGGEPTYNAVAGRGRVLFVFMGKEGVH  
GGGLNKKAYSMAYLRDSGF

>sp|Q3B8N5|PROX2\_HUMAN Prospero homeobox protein 2 OS=Homo sapiens GN=PROX2 PE=2 SV=3

MDPNSILLSPPQICSHLAEACTEGERSSSPPELDRDSPFPWSQVPSSSPTDPEWFGDEH  
IQAKRARVETIVRGMCLSPNPLVPGNAQAGVSPRCPKKARERKRKQNLPTPQGLLMPAPA  
WDQGNRKGGPRVREQLHLLKQQLRHLQEHILQAAKPRDTAQPGGCGTGKGPLSAKQGNG  
CGPRPWVVDGDHQQGTSKDLSGAEKHQSEKPSFLPSGAPASLEILRKELTRAVSQAVDS  
VLQKVLLDPPGHLTQLGRSFQGGVAEGRSEPSPPVGGACKDPLALAALPRRVQLQAGVPV  
GNLSLAKRLDSPRYPIPPRMTPKPCQDPPANFPLTAPSHIQENQILSLLGHRYNNGHWS  
SSPPQDSSSRHPSSEPALRPWRTTKPQPLVLSQQQCPLPFTSAHLESPLLPVSKMEQR  
GLHAVMEALPFSLLHIQEGLNPGHLKKAKLMFFTRYSSNLLKVYFPDVQFNRCITSQM  
IKWFSNREFYYIQMEKSARQAISDGVTPNPKMLVVLRNSELFQALNMHYNKGNDFEVPDC  
FLEIASLTLQEFFRAVSAGRSDPSWKKPIYKIISKLSDIPEIFKSSSYPQ

>sp|P02810|PRPC\_HUMAN Salivary acidic proline-rich phosphoprotein 1/2 OS=Homo sapiens  
GN=PRH1 PE=1 SV=2

MLLILLSVALLAFSSAQDLDEDVSQEDVPLVISDGGDSEQFIDEERQGPPGGQSQPSA  
GDGNQDDGPQQGPPQGGGQQGPPPPQGKPQGGPQQGGHPPPPQGRPQGGPQQGGHPRP  
PRGRPQGGPQQGGHQQGPPPPPPGKPPQGGPPQGGPPQGGQSPQ

>sp|Q96S44|PRPK\_HUMAN TP53-regulating kinase OS=Homo sapiens GN=TP53RK PE=1 SV=2

MAAARATTPADGEEPAPEAEALAAARERSSRFLSGLELVKQGAEARVFRGRFQGAAVIK  
HRFPKGYRHPALEARLGRRTVQEARALLRCRRAGISAPVVFFVDYASNCLYMEEIEGSV  
TVRDYIQSTMETETPQGLSNLAKTIGQVLARMHEDLIHGDLTTSNMLLKPPLEQLNIV  
LIDFGLSFISALPEDKGVDLYLEKAFLSTHPNTETVFEAFLKSYSTSSKKARPVLKKLD  
EVRLRGRKRSMVG

>sp|Q96S07|PRR25\_HUMAN Proline-rich protein 25 OS=Homo sapiens GN=PRR25 PE=4 SV=1

MARTDQKPPCRGGCWGQPGHPNTGGAAAHPTYHPMHRPRTCILLRGDQTTGGQAPSREI  
SLGPWAAGTHFLAISTTPWGRKTPACISELPTSSGTAQPLANAVCEVQTVPGPLRPQGT  
PAMRAPSHKGTPTPNPWGPEQPQNRHKHPKKGVTGGPSPPPPAASRYGQTPGREPRVQA  
PGLGPCRPASGRLLSLHLEKGDGKTRQRIPLTDAVGGDRDIPSAIAAGPARTPDRH  
GLPIPGSTPTPMVSGRLGAPVGRSGGASARSSRPSCANVLLRADASLGTVLSVLWTGQ  
LSRGWALLPPGDAGRHLETSVISAGVAAGIWLVEPGEAQDPATRRTAPPRRTASPEPPA  
PGAPLPACPGRIPGAARFGPRSCPLGSPAVLAVTTGWSHRSV

>sp|Q5SQ13|PRR31\_HUMAN Proline-rich protein 31 OS=Homo sapiens GN=PRR31 PE=4 SV=1

MLGTQWTLARCLLPSHPDPGLAGSLRGDSSEGGRRGQLLPQSPAPCSPVWSPGTPVGGPH  
PAGDGPATAPGPEPELAFQDLSAPWPQKGAGTHPANAGPGPLSRRSSQLRTPLEAGR  
KWGWKMTWRLLRRDQAPGEGTQAKLLGEALSTAGRGHAGPEGWAGEGGVSPGLTPLLGT  
GQKELDLDLREKFIRFDQILGISLDHIPFLPQTGPRPWGCGVGKQRPH

>sp|A8MZFO|PRR33\_HUMAN Proline-rich protein 33 OS=Homo sapiens GN=PRR33 PE=4 SV=2

MGPQVVASAPEPTRPPSGFVPVSGGGGTHVTQVHIQLAPSPHNGTPEPPRTAPEVGSNSQ  
DGDATPSPPRAQPLVPVAHIRPLTTVQAASPLPEEPPVPRPPPGFQASVPREASARVVV  
PIAPTCSRLESSPHSLVPMGPGREHLEPPMAGPAAEAERVSSPAWASSPTPPSGPHPCP  
VPKVAPKPRLSGWTWLKKQLLEEAPPEPCPEPRQSLEPEVPTPTEQEVPAPEQEVPALE

APRAPASRTSRMWDVLYRMSVAEAQGRLAGPSGGEHTPASLTRLPFLYRPRFNARKLQE  
ATRPPPTVRSILELSPQPKNFNRTATGWRLQ

>sp|Q9NV39|PRR34\_HUMAN Proline-rich protein 34 OS=Homo sapiens GN=PRR34 PE=2 SV=1  
MPASATAAWHCPPLCLPPLPASAPTSPPNPATRPAPGPGRRARCPQSAHPAPTRGALTFW  
APGSWPRVLLVPRSPGPVLRAPRLPHPAARARRRAWHGARLPGSPARAGRTFQRGLVSNS  
WAHAIFLPRPPNVLELQV

>sp|P79522|PRR3\_HUMAN Proline-rich protein 3 OS=Homo sapiens GN=PRR3 PE=1 SV=2  
MPKRKKQNHHPPTQQPPLPEREETGDEEDGSPIGPPSLLGPPPMANGKPGDPKSALHR  
GPPGSRGLPIPLLSPPPPWGRGPIRRGLPRSSPYGRGWGVNAEPPFPGPGHGGPTR  
GSFHKEQRNPRRLKSWSLIKNTCPPKDDPQVMEDKSDRPVCRHFAKKGHCRYEDLCAFYH  
PGVNGPPL

>sp|Q6MZQ0|PRR5L\_HUMAN Proline-rich protein 5-like OS=Homo sapiens GN=PRR5L PE=1 SV=2  
MTRGFAPILPVEFHKMGSFRRPRPRFMSSPVLSDLPRFQAARQALQLSSSSAWNSVQTAV  
INVFKGGGLQSNELYALNENIRRLKSELGSFITDYFQNQLLAKGLFFVEEKIKLCEGEN  
RIEVLAEVWDHFFETETLPTLQAIFFYPVQGQELTIRQISLLGFRDLVLLKVKLGDLLLLAQ  
SKLPSSIVQMLLIQSVHEPTGPSESYLQLEELVKQVVSFPLGISGDRSFSGPTYTLARR  
HSRVRPKVTVLNYASPITAVSRPLNEMVLTPLTEQEGEAYLEKCGSVRRHTVANAHSDIQ  
LLAMATMMHSGLGEEASSENKCLLLPPSFPPPHRQCSSEPNTDNPDGLGEGARGSQEGS  
ELNCASLS

>sp|Q8TB68|PRR7\_HUMAN Proline-rich protein 7 OS=Homo sapiens GN=PRR7 PE=2 SV=1  
MVMSQGTYTFLTCFAGFWLIWGLIVLLCCFCFLRRRLKRRQEERLREQNLRALELEPLE  
LEGLAGSPPGLAPPQPPPHRSRLEAPAHASHPHVHVHPLLHHGPAQPHAAHPPHHH  
ALPHPPPTHLVPPRPWSYPRQAESDMSPKPCYEEAVLMAEPPPPYSEVLTDTRGLYRKI  
VTPFLSRRDSAQEQPPPSYKPLFLDRGYTSALHLPSAPRPAPPCALCLQADRGRRVF  
PSWTDSELSSREPLEHGAWRLPVSIPLFGRTTAV

>sp|P62195|PRS8\_HUMAN 26S protease regulatory subunit 8 OS=Homo sapiens GN=PSMC5 PE=1  
SV=1

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRLQAQRNELNAKVRLLR  
EELQLLQEQGSYGEVVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRND  
YTLHKILPNKVDPLVSLMMVEKVPDSTYEMIGGLDKQIKEIKEVIELPVKHPELFEALGI  
AQPKGVLVLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKFIGEGARMVRELFVMARE  
HAPSIIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQLDGFEATKNIKVIMATNRIDI  
LDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAELMPGASGAEVK  
GVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDSEKNMSIKKLWK

>sp|Q96GD0|PLPP\_HUMAN Pyridoxal phosphate phosphatase OS=Homo sapiens GN=PDXP PE=1 SV=2  
MARCELRGAALRDVLGRAQGVLFDCDGLWNGERAVPGAPELLERLARAGKAALFVSNN  
SRRARPELALRFARLFGGLRAEQLFSSALCAARLLRQLPGPPDAPGAVFVLGGGLRA  
ELRAAGLRLAGDPSAGDGAAPRVRAVLVGYDEHFSFAKLREACAHLRDPECLLVATDRDP  
WHPLSDGSRTPGTGSAAAVETASGRQALVVGKPSPYMFECITENFSIDPARTLMVGDRL  
ETDILFGHRCGMTTVLTLTGVSRLQEEAQAYLAAGQHDLVPHYYVESIADLTEGLED

>sp|Q6T4P5|PLPR3\_HUMAN Phospholipid phosphatase-related protein type 3 OS=Homo sapiens  
GN=PLPPR3 PE=2 SV=1

MISTKEKNKIPKDSMTLLPCFYFVELPIVASSIVSLYFLELTDLFKPAKVGFCYDRTLS  
MPYVETNEELIPLLMLLSLAFAPAASIMVAEGMLYCLQSRLWGRAGGPAGAEGSINAGG



CNFSNLSRLRTVRFVGVHVFGLCATALVTDVIQLATGYHTPFFLTVCKPNYTLTGTSCEVN  
PYITQDICSQHDIIHILSARKTFPSQHATLSAFAAVYVSMYFNSVISDTTKLLKPILVFA  
FAIAAGVCGLTQITQYRSHPVVDYAGFLIGAGIAAYLACHAVGNFQAPPAEKPAAPAPAK  
DALRALTRGRHDSVYQQNKSVDDELGPGRLEGAPRPVAREKTSLSGLKRAVDVDLLA  
PRSPMAKENMVTFSHTLPRASAPSLDDPARRHMTIHVPLDASRSKQLISEWKQKSLEGRG  
LGLPDDASPGHLRAPAEPMEEEEEEEEEEEEEEEEDEGPAPPSLYPTVQARPGGLP  
RVILPPRAGPPPLVHIPEEGAQTGAGLSPKSGAGVRAKWLMAEKSGAAVANPPRLQVI  
AMSKAPGAPGPKAAETASSSSASSDSSQYRSPSDRDSASIVTIDAHAPHHVHLSAGGA  
PWEWKAAGGGAKAEADGGYELGDLARGFRGGAKPPGVSPGSSVSDVDQEEPRFGAVATVN  
LATGEGLPPLGAADGALGPGSRESTLRRHAGGLGLAEREAEAEAGYFRKMQARRFPD

>sp|Q7Z2D5|PLPR4\_HUMAN Phospholipid phosphatase-related protein type 4 OS=Homo sapiens  
GN=PLPR4 PE=1 SV=1

MQRAGSSGGRGECDISGAGRLGLEEAARLSCAVHTSPGGGRRPGQAAGMSAKERPKGKVI  
KDSVTLLPCFYFVELPILASSVVSFLYLELTDVFKPVHSGFSCYDRSLSMPIEPTQEAI  
PFLMLLSLAFAGPAITIMVGEIGLYCCLSKRRNGVLEPNINAGGCNFSFLRAVRVFG  
VHVFGLCSTALITDIQLSTGYQAPYFLTVCKPNYTSNLVSKKENSIVIEDICSGDLTV  
INSGRKSFPSQHATLAAFAAVYVSMYFNSTLTDSSKLLKPLLVTFTIICGIIICGLTRITQ  
YKNHPVDVYCGFLIGGGIALYLGLYAVGNFLPSDESMFQHRDALRSLTDLNQDPNRLLSA  
KNGSSSDGIAHTEGILNRNHRDASSLTNLKRANADVEIITPRSPMGKENMVTFSNTLPRA  
NTPSVEDPVRRNASIHASMDSARSKQLLTQWKNKNESRKLQVIEPEPGQSPRSIEMR  
SSSEPSRVGVNGDHHGPGNYLKIQPGAVPGCNNSMPGGPRVSIQSRPGSSQLVHIPEET  
QENISTSPKSSSARAKWLKAAEKTACNRSNSQPRIMQVIAMSKQQGVQLQSSPKNTEGST  
VSTGSIKYKTLTDHEPSGIVRVEAHPENNRPIIQIPSTEGEGSGSWKKAPEKGLRQT  
YELNDLNRDSESCESLKDSFGSGDRKRSNIDSNEHHHHGITTIRVTPVEGSEIGSETLSI  
SSSRDSTLRRKGNIIILIPERSNSPENTRNIFYKGTSPTRAYKD

>sp|Q8N7G0|PO5F2\_HUMAN POU domain, class 5, transcription factor 2 OS=Homo sapiens  
GN=POU5F2 PE=2 SV=1

MAGHRPSNHFCLPGSGGGPRGPMPLRVDTLTWLSTQAAPGRVMVWPAVRPGICPGPDV  
WRIPGLPLPHEFRGWIAPCRPLGASEAGDWLRRPSEGALPGPYIALRSIPKLPPPEDIS  
GILKELQQLAKELRQKRLSLGYSQADVGIAVGALFGKVLSTTICRFEAQQLSVANMWKL  
RPLKKWLKEVEAENLLGLCKMEMILQQSGKWRRASRERRIGNSLEKFFQRCPKPTPQQI  
SHIAGCLQLQKDVRVWFYNRSKMGSRPNTDASPREIVGTAGPPCPGAPVCFHLGLGLPV  
DIPHYTRLYSAGVAHSSAPATTLGLLRF

>sp|Q14863|PO6F1\_HUMAN POU domain, class 6, transcription factor 1 OS=Homo sapiens  
GN=POU6F1 PE=1 SV=1

MPGISSQILTNAQQQVIGTLPWVVNSASVAAPAPAQSLQVQAVTPQLLLNAQQQVIATLA  
SSPLPPPVAVRKPTPEPAKSEVQPIQPTPTVPQPAVVIASPAAPAKPSASAPIPITCS  
ETPTVSQLVSKPHTPSLDEGDINLEEIREFAKNFKIRRLSLGLTQTQVGGQALTATEGPAY  
SQSAICRFEKLDITPKSAQKLKPVLEKWLNEAELRNQEGQQNLMEFVGGEPSKKRKRRTS  
FTPQAIEALNAYFEKNPLPTGQEITEIAKELNYDREVVRVWFCNRRQTLKNTSKLNVFQI  
P

>sp|P78424|PO6F2\_HUMAN POU domain, class 6, transcription factor 2 OS=Homo sapiens  
GN=POU6F2 PE=1 SV=3

MSALLQDPMIAGQVSKPLLSVRSEMNAELRGEDKAATSDSELNEPLLAPVESNDSSEDTPS

KLFGARGNPALSDPGTPDQHQASQTHPPFPVGPQPLLTAAQQLASAVAGVMPGGPPALNQP  
ILIPFNMAGQLGGQQGLVLTLPATANLTNIQGLVAAAAAGGIMTLPLQNLQATSSLNSQLQ  
QLQLQLQQQQQQQQQPPSTNQHPQAPQAPSQSQQLQPTPPQQPPASQQPPAPTS  
QLQQAPQPQQHQPHSHSQNNQPSPTQQSSSPQKPSQSPGHGLPSLTPPNPLQLVNNP  
LASQAAAAAAMSSSIASSQAFGNALSSLQGVGTGQLVTNAQGQIIIGTIPLMPNPGPSSQAA  
SGTQGLQVQPITPQLLTNAQGQIIATVIGNQILPVINTQGITLSPIKPGQQLHQPSQTSV  
GQAASQGNLLHLAHSQASMSQSPVRQASSSSSSSSSSALSVGQLVSNPQTAAGEVDGVN  
LEEIREFAKAFKIRRLSLGLTQTQVGQALSATEGPAYSSQSAICRHTILRSHFFLPQEAQE  
NTIASSLTAKLNPGLLYPARFEKLDTPKSAQKIKPVLERWMAEAEARHRAGMQNLTEFI  
GSEPSKKRKRRTSFTPQALEILNAHFENHPSGQEMTEIAEKLNYDREVVRVWFCNKRQ  
ALKNTIKRLKQHEPATAVPLEPLTDSLEENS

>sp|P10266|POK10\_HUMAN Endogenous retrovirus group K member 10 Pol protein OS=Homo sapiens  
GN=ERVK-10 PE=3 SV=2

NKSRRNRNVSFLGAVTVEPPKPIPLTWKTEKPVVWNQWPLPKQKLEALHLLANEQLEKG  
HIEPSFSPWNSPVFVIQKKSQKWHLTDLRAVNAVIQPMGPLQPGLSPAMIPKDWPLII  
IDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRAL  
QPVREKFSDCYIIHYIDILCAAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHY  
LGMQIENRKIKPKQIEIRKDTLTKLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDS  
DLNSQRILTPEATKEIKLVEEKIQSAQINRIDPLAPLQLLIFATAHSPTGIIIQNTDLVE  
WSFLPHSTVKTFTLYLDQIATLIGQTRLRITKLCGNPDKIVVPLTKEQVRQAFINSGAW  
QIGLANFVGLIDNHYPKTKIFQFLKLTWILPKITRREPLENALTFTDGSNGKAAATG  
PKERVIKTPYQSAQRDELAVITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQ  
LNQLFNLLQQTVRKRNFPIYITIRAHNTLPGPLTKANEQADLLVSSALIKAEHALTH  
VNAAGLKNKFDVTWKQAKDIVQHCTQCQVLHLPTEAGVNPRGLCPNALWQMDVTHVPSF  
GRLSYVHVTVDITYSHFIWATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAF  
QKFLSQWKISHTTGIPYNSQGQAIVERTNRTLKTQLVKQKEGDSKECTTPQMQLNALY  
TLNFLNIYRNQTTTSAEQHLTGGKNSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSP  
GENQLPVWLPTHLKFYNEPIGDAKRASTEMVTPVTWMDNPIEVYVNDIIVWPGPIDDR  
CPAKPEEEGMMINISIGYRYPICLGRAPGCLMPAVQNWLEVPVTVSPISRFTYHVMVSGM  
SLRPRVNYLQDFSYQSLKFRPKGKPCPKEIPKESKNTEVLVWEECVANSVIL

>sp|Q9BXR3|POK6\_HUMAN Endogenous retrovirus group K member 6 Pol protein OS=Homo sapiens  
GN=ERVK-6 PE=2 SV=2

NKSRRNRNRESLLGAATVEPPKPIPLTWKTEKPVVWNQWPLPKQKLEALHLLANEQLEKG  
HIEPSFSPWNSPVFVIQKKSQKWRMLTLRAVNAVIQPMGPLQPGLSPAMIPKDWPLII  
IDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRAL  
QPVREKFSDCYIIHCIDILCAAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHY  
LGMQIENRKIKPKQIEIRKDTLTKLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDS  
DLNSKRMLTPEATKEIKLVEEKIQSAQINRIDPLAPLQLLIFATAHSPTGIIIQNTDLVE  
WSFLPHSTVKTFTLYLDQIATLIGQTRLRIKLCGNPDKIVVPLTKEQVRQAFINSGAW  
KIGLANFVGIIDNHYPKTKIFQFLKLTWILPKITRREPLENALTFTDGSNGKAAATG  
PKERVIKTPYQSAQRAELAVITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQ  
LNQLFNLLQQTVRKRNFPIYITHIRAHNTLPGPLTKANEQADLLVSSALIKAEHALTH  
VNAAGLKNKFDVTWKQAKDIVQHCTQCQVLHLPTEAGVNPRGLCPNALWQMDVTHVPSF  
GRLSYVHVTVDITYSHFIWATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAF

QKFLSQWKISHTTGIPYNSQGQAIVERTNRTLKTQLVKQKEGDSKECTTPQMLNLALY  
TLNFLNIYRNQTTTSAEQHLTGKKNSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSP  
GENQLPVWIPTRHLKFYNEPIRDAKKSTSAETETSQSSTVDSQDEQNGDVRRTDEVAIHQ  
EGRAANLGTTEADAVSYKISREHKGDTNPREYAACSLDDCINGGKSPYACRSSCS

>sp|P63128|POK9\_HUMAN Endogenous retrovirus group K member 9 Pol protein OS=Homo sapiens  
GN=ERVK-9 PE=3 SV=3

MGQTKSKIISKYASYLSFIKILLKRGGVKVSTKNLIKLFQIEQFCPWFPEQGTLDLKD  
KRIGKELKQAGRKGNIIPLTVWNDWAIKAALEPFQTEEDSISVSDAPGSGIIDCNEKTR  
KKSQKETESLHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKPELVGPSESKPRG  
TSPLPAGQVPVTLQPQKQVKENKTQPPVAYQYWPPAELQYRPPPEQYGYPMPPAPQGR  
APYPQPPTRRNLNPTAPPSRQSGSELHEIIDKSRKEGDEAWQFPVTLEPMPPGEGAQEGEP  
PTVEARYKSFSIKILKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLLPYDWEILAKSSLSP  
SQFLQFKTWWIDGVQEQQVRRNRANPPVNIDADQLLGIGQNWSTISQQALMQNEAIEQVR  
AICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVIVELMA  
YENANPECQSAIKPLKGVKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVLGGQVR  
TFGGKCYNCGQIGHLLKKNCPVLNKQNIITQATTTGREPPDLCPRCKKGKHASQCRSKFD  
KNGQPLSGNEQRGQPAPQQTGAFFIQPFVPQGFQGGQPPLSQVFQGISQLPQYNNCP  
QVAVQQVDLCTIQAVSLLPGEPPQKIPTGVYGPLPEGTVGLILGRSSLNLKGVQIHTSVV  
DSDYKGEIQLVISSSVPSASPGDRIAQLLLLPYIKGGNSEIKRIGGLGSTDPTGKAAYW  
ASQVSENRPVCKAIIQGGKFEGLVDTGADVSIILNQWPKNWPQKAVTGLVGIGTASEV  
YQSMEILHCLGPDNQESTVQPMITSIPLNLWGRDLLQGWAEITMPAPLYSPTSQKIMTK  
RGYIPGKGLGKNEDGIKIPFEAKINQKREGIGYPFLGAATIEPPKPIPLTWKTEKPVWVN  
QWPLPKQKLEALHLLANEQLEKGHIEPSFSPWNSPVFVIQKKSQKWRMLTDLRAVNAVIQ  
PMGPLQPGLPSPAMIPKDWPLIIIDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQ  
WKVLPQGMLNSPTICQTFVGRALQPVKVFRLLYSLY

>sp|Q15063|POSTN\_HUMAN Periostin OS=Homo sapiens GN=POSTN PE=1 SV=2

MIPFLPMFSLLLLLIVNPIANNNHYDKILAHSRIRGRDQGPNCALQQILGTTKKYFSTC  
KNWYKKSICGKTTVLYECCPGYMRMEGKGC PAVLPIDHVGTLGIVGATTTQRYSDAS  
KLREEIEGKSFTYFAPSNEAWNDLSDIRRGLESNVNVELLNALHSHMINKRMLTKDLK  
NGMIIPSMYNNLGLFINHYPNGVVTVNCARIIHGNQIATNGVVHVIDRVLTIQIGTSIQDF  
IEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTNEAFELPRGVLERIMGDKVASEAL  
MKYHILNLTQCSSEIMGGAVFETLEGNTIEIGCDGDSITVNGIKMVNKKDIVTNNGVIHL  
IDQVLIPDSAKQVIELAGKQQTFTDLVAQLGLASALRPDGEYTLAPVNNAFSDDTL  
SM DQRLKLILQNHILKVKVGLNELYNGQILETIGGKQLRVFVYRTAVCIENSCMEKGSQ  
KQ RNGAIIHIFREIIKPAEKSLEHKLQDKRFSTFLSLEAADLKELLTQPGDWTLFVPTNDA  
FKGMTSEEKEILIRDKNALQNIILYHLTPGVFIGKGFEPGVTNLIKTTQGSKIFLKEVND  
TLLVNELKSKESDIMTTNGVIHVVDKLLYPADTPVGNDQLEILNLKIYIQIKFVRGST  
FKEIPVTYTTKIIITKVVEPKIKVIEGSLQPIIKTEGPTLTQVKIEGEPEFRLIKEGETI  
TEVIHGEPPIIKKYTKIIDGVPVEITEKETREERIITGPEIKYTRISTGGGETEETLKKLL  
QEEVTKVTKFIEGGDGLFEDEEIKRLLQGDTPVRKLQANKKVQGSRRRLREGRSQ

>sp|Q8TAE6|PP14C\_HUMAN Protein phosphatase 1 regulatory subunit 14C OS=Homo sapiens  
GN=PPP1R14C PE=1 SV=3

MSVATGSSETAGGASGGARVFFQSPRGAGGSPGSSSGSGSSREDSAPVATAAAAGQVQ  
QQQQRHQQGKVTVKYDRKELRKRLVLEEWIVEQLGQLYGCEEEEMPEVEIDIDDLDDAD

SDEERASKLQEALVDCYKPTEEFIKELLSRIRGMRKLSPPQKKS

>sp|P62140|PP1B\_HUMAN Serine/threonine-protein phosphatase PP1-beta catalytic subunit  
OS=Homo sapiens GN=PPP1CB PE=1 SV=3

MADGELNVDLITRLLLEVRGCRPGKIVQMTEAEVRGLCIKSREIFLSQPILLELEAPLKI  
CGDIHGQYTDLLRLFYGGFPPEANYLFLGDYVDRGKSLETICLLLAYKIKYPENFFLL  
RGNHECASINRIYGFYDECKRRFNKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQ  
SMEQIRIRMRPTDVPDGLLWSDPKDVQGWGENDRGVSFTFGADVVSFLNRHDL  
DLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGGMMSVDETLMCSFQILKPSEK  
KAKYQYGGLNNGRPVTPPRTANPPKKR

>sp|Q96QC0|PP1RA\_HUMAN Serine/threonine-protein phosphatase 1 regulatory subunit 10  
OS=Homo sapiens GN=PPP1R10 PE=1 SV=1

MGSGPIDPKELLKGLDSFLNRDGEVKSVDGISKIFSLMKEARKMVSRCYTLNILLQTRSP  
EILVKFIDVGGYKLLNNWLTYSKTTNNIPLLQQILLTLQHLPLTVDHLKQNN TAKLVKQL  
SKSSEDEELRKLASVLVSDWMAVIRSQSSTQPAEKDKKKRKDEGKSRTTLPERPLTEVKA  
ETRAEEAPEKKREPKSLRTTAPSHAKFRSTGLELETSPVVKKNASTVVVSDKYNLKP  
IPLKRQSNVAAPGDATPPAEKKYKPLNTTPNATKEIKVKIIPPQPM EGLGFLDALNSAPV  
PGIKIKKKKKVLSPTAAKPSPFEGKTSTEPSTAKPSSPEPAPPSEAMDADRP GTPVPPVE  
VPELMDTASLEPGALDAKPVESPGDPNQLTRKGRKRKSVTWEEGKLREYFYFELDETER  
VNVNLIKDFGEAAKREILSDRHAFETARRLSHDNMEEKVPWVCPRPLVPSPLVTPGSNS  
QERYIQAREKGIQLFLNKESPEPDPEYEP IPPKLIPLDEECSMDETPYVETLEPG  
GSGGSPDGAGGSKLPPVLANLMGSMGAGKGPQGPGGGG INVQEILTSIMGSPNSHPSEEL  
LKQPDYS DKIKQMLVPHGLLGPPIANGFPFGPGGPKGMQHFPFGPGGPMGPHGGPGG  
PVGPRLLGPPPPRGGDPFWDGPGDPMRGGPMRGGPGPGPGPYHRGRGGRGGNEPPPPPP  
PFRGARGGRSGGGPPNGRGGPGGGMVGGGGHRPHEGPGGGMGNSSGHRPHEGPGGGMSG  
HRPHEGPGGSMGGGGHRPHEGPGGGISGGSGHRPHEGPGGGMGAGGGHRPHEGPGGSMG  
GSGGHRPHEGPGHGGPHGHRPHDVPGHRGHDHRGPPPEHRGHDGPGHGGGGHRGHDGGH  
SHGGDMSNRPVCRHFMKGNCRYENNCIFYHPGVNGPPLP

>sp|Q08209|PP2BA\_HUMAN Serine/threonine-protein phosphatase 2B catalytic subunit alpha  
isoform OS=Homo sapiens GN=PPP3CA PE=1 SV=1

MSEPKAIDPKLSTTD RVVKA VFPFPPSHRLTAKEVFDNDGKPRVDILKAHLMKEGRLEESV  
ALRIITEGASILRQEKNLDDIDAPVTVC GDIHGQFFDLMKLFEVGGSPANTRYLFLGDYV  
DRGYFSIECVLYLWALKILYPKTLFLLRGNHECRHLTEYFTFKQECKIKYSERVYDACMD  
AFDCLPLAALMNQQFLCVHGGLSPEINTLDDIRKLDRFKEPPAYGPMCDILWSDPLEDFG  
NEKTQEHTHTNTVRGCSYFYSYPAVCEFLQHNNLLSILRAHEAQDAGYRMYRKSQTTGFP  
SLITIFSAPNYLDVYNNAAVLKYENNVNIRQFNCSPHPYWLPNFMDVFTWSLPFVGEK  
VTEMLVNVLNICSDDELGSEEDGFDGATAAARKEVIRNKIRAIGKMARVFSVLREESESV  
LTLKGLTPTGMLPSGVLGGKQTLQSATVEAIEADEA IKGFSPQHKITSFEEAKGLDRIN  
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>sp|O14830|PPE2\_HUMAN Serine/threonine-protein phosphatase with EF-hands 2 OS=Homo  
sapiens GN=PPEF2 PE=1 SV=2

MGSGTSTQH HFAFQNAERAFKAAALIQRWYRRYVARLEMRRRCTWSIFQSI EYAGQQDQV  
KLHDFFSYLM DHFIPSSHND RFLTRIFTEDRFAQDSEM KKCS DYESIEVPDSYTGPRLS  
FPLLPDHATALVEAFRLKQQLHARYVLNLLYETKKHLVQLPNINRVSTCYSEEITVCGDL  
HGQLDDLIFIFYKNGLSPERSYVFNGDFVDRGKDSVEILMILFAFMLVYPKEFHLNRGN

HEDHVMNLRYGFTKEVMNKYKVHGKEILRTLQDVFCWLPLATLIDKVLILHGGVSDITD  
LELLDKIERSKIVSTMCKTRQKSEKQMEKKRRANQKSSAQGPWPFLPESRSLPSSPLR  
LGSYKAQKTSRSSIPCSGLDGRELSRQVRSSVELELERCRQQAGLLVTGEKEEPSRSA  
SEADSEAGELRKPTQEEWRQVVDILWSDPMAQEGCKANTIRGGGCYFGPDVTQQLLQKYN  
MQFLIRSHECKPEGYEFCHNRKVLTFSSASNYEYVGSNRGAYVKLGPALTPHIVQYQANK  
VTHTLTMRQRISRVEESALRALREKLFAHSSDLLSEFKKHDADKVGLITLSDWAAAVESV  
LHLGLPWRMLRPQLVNSSADNMLEYKSWLKNLAKEQLSRENIQSSLLETLYRNRNLETI  
FRIIDSDHSGFISLDEFRTWKLFSSHMNIDITDDCICDLARSIDFNKDGHDINEFLEA  
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>sp|Q7Z5V6|PPR32\_HUMAN Protein phosphatase 1 regulatory subunit 32 OS=Homo sapiens  
GN=PPP1R32 PE=1 SV=1

MMGKLPLGVVSPYVKMSSGGYTDPLKFYATSYCTAYGREDFKPRVGSVHGTGYKSNFQPV  
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AGPPTKEVRKVHFDTEHGPQAITGLEPREVPLLHQQQGQDPLERENFRHGPRFMTSEYN  
SKYLRDPLDQPDFLQKKSIGAKEGSGFTKQSHQSPIVFQPPSQALPGDPALLPGQSVTKS  
DFLPKTHLHGDEFLPVLARGSKRETAFSRGNERILNPRVPPCPEPSSVSHQQFQPLHRM  
QQTNVALLGRETVGKKEPTGFSLNPMYVRSPCDPDRDQRYLTTYNQGYFENIPKGLDQE  
GWTRGGIQPMPPGGYALSQPVSCMEATPNPMESLRHLHPHVGRTLTSADPFYQNTPHSSR  
CVAHS

>sp|Q8NI37|PPTC7\_HUMAN Protein phosphatase PTC7 homolog OS=Homo sapiens GN=PPTC7 PE=2  
SV=1

MFSVLSYGRVLVARAVLGGLSQTDPRAGGGGGDYGLVTAGCGFGKDFRKGLLKKGACYGD  
DACFVARHRSADVLGVADGVGGWRDYGVDPSQFSGTLMRTCERLVKEGRFVPSNPIGILT  
TSYCELLQNKVPLLGSSSTACIVLDRTSHRLHTANLGDSGFLVVRGGEVVHRSDEQQHYF  
NTPFQLSIAPPEAGVVLSDSPDAADSTSFVQLGDIILTATDGLFDNMPDYMILQELKK  
LKNSNYESIQQTARSIAEQAHELAYDPNYMSPFAQFACDNLNVRGGKPDITVLLSIVA  
EYTD

>sp|Q9NRI7|PPY2\_HUMAN Putative pancreatic polypeptide 2 OS=Homo sapiens GN=PPY2P PE=5  
SV=1

MAAACRCLSLLLSTCVALLL

>sp|O60813|PRA11\_HUMAN PRAME family member 11 OS=Homo sapiens GN=PRAMEF11 PE=2 SV=4

MEAFSRRRCEALKLMVQAWPFRRPLRPLIKMPCLEAFQAVLDGLDALLTQGVRPRRWKL  
QVLDLQDVCENFWMVWSEAMAHGCFLNAKRNNKPVQDCPRMRGRQPLTVFVELWLNRTL  
DEYLTCLLLWVKQRRDLLHLCKKILKILGMPFRNIRSILKMVNLDICIQEVEVNCKWILPI  
LTQFTPYLGHLRNLQKLVLSHMDVSRVVSPEQKKEIVTQFTTQFLKLRLCLQKLYMNSVSF  
LEGHLDQLLSCLKTSKVLTTITNCVLLESCLKHLSQCPSISQLKTLDLSGIRLTNYSVLP  
LQILLEKVAATLEYLDLDDCGIIDSQVNAILPALSRCFELNTFSFCGNPICMATLENLLS  
HTIILKNLCLELYPAPQESYGADGTLCSRFQAQIRAEMLKKVRHLRHPKRILFCTDNCPD  
HGDRSFYDLEADQYCC

>sp|HOY7S4|PRA26\_HUMAN Putative PRAME family member 26 OS=Homo sapiens GN=PRAMEF26 PE=5  
SV=2

MVRWKLQVLDLQDVCENFWMVWSEAMARGCFLNAKRNNKPVQDCPRMRGRQPLTVFVELW  
LKNRTLDEHLTCLLLWVKQRKDLLHLCKKILKILGMPFRNIRSILKMVNLDICIQEVEVNC  
KWVLPILTQFTPYLGHMRNLQKLVLSHMDVSRVVSPEQKKEIVTQFTTQFLKLHCLQKLY

MNSVSFLEGHLDQLLSCLKTSCLKVLTITNCVLLESCLKHLSQCPSISQLKTLDLSGIRLT  
NYSLVPLQILLEKVAATLEYLDLDDCGIIDSQVNAILPALSRCFELNTFSFCGNPISMAT  
LENLLSHTIILKNLCVELYPAPRESYGADGTLCSRFQIRAELMKVRDLRHPKRILFG  
TDYCPDCGNRSFYDLEADQYCC

>sp|Q5TYX0|PRAM5\_HUMAN PRAME family member 5 OS=Homo sapiens GN=PRAMEF5 PE=2 SV=2

MSIRTPPRLLELAGRSLLRDQALAMSTLEELPTLFPPLFMEAFSRRRCEALKMVQAWP  
FRRLPLRPLIKMPCLEAFQAVLDGLDALLTQGVHPRRWKLQVLDLQDVCENFWMVSEAM  
AHGCFLNAKRNNKPVQDCPRMRGQQPLTVFVELWLNRTLDEYLTCLLLWVKQRKDLLHL  
CCKKLKILGMPFRNIRSILKMVNLDICIQEVNCKWVLPILTQFTPYLGHRNLQKLVLS  
HMDVSRVVSPEQKKEIVTQFTTQFLKLCCLQKLSMNSVSFLEGHLDQLLSCLKTSCLKVLT  
ITNCVLLESCLKHLSQCPSISQLKTLDLSGIRLTNYSLVPLQILLEKVAATLEYLDLDDC  
GIIDSQVNAILPALSRCFELNTFSFCGNPISMATLENLLSHTIILKNLCVELYPAPRESY  
DADGTLCSRFQIRAELMKVRDLRHPKRILFCTDCCPDCGNRSFYDLEADQCCC

>sp|Q5VWM5|PRAM9\_HUMAN PRAME family member 9/15 OS=Homo sapiens GN=PRAMEF9 PE=2 SV=1

MKMSIRTPPRLLELAGRSLLRDQALAMSTLEELPTLFPPLFMEAFSRRRCEALKMVQA  
WPFRLPLRPLIKMPCLEAFQAVLDGLDALLTQGVPRRWKLQVLDLQDVCENFWMVSE  
AMAHGCFLNAKRNNKPVQDCPRMRGRQPLTVFVELWLNRTLDEYLTYYYLLWVKQRKDLL  
HLCKKLKILGMPFRNIRSILKMVNLDICIQEVNCKWVLPILTQFTPYLGHRNLQKLV  
LSHMDVSRVVSPEQKKEIVTQFTTQFLKLRLCLQKLYMNSVSFLEGHLDQLLSCLKTSCLKV  
LTITNCVLLESCLKHLSQCPSISQLKTLDLSGIRLTNYSLVPLQILLEKVAATLEYLDLD  
DCGIIDSQVNAILPALSRCFELNTFSFCGNPICMATLENLLSHTIILKNLCVELYPAPRE  
SYGADGTLCSRFQIRAELMNRVRDLRHPKRILFCTDYCPDCGNRSFYDLEADQYCC

>sp|Q00LT1|PRCD\_HUMAN Progressive rod-cone degeneration protein OS=Homo sapiens GN=PRCD  
PE=1 SV=1

MCTTLFLLSTLAMLWRRRFANRVQPEPSDVGGAARGSSLDADPQSSGREKEPLK

>sp|Q9NQV6|PRD10\_HUMAN PR domain zinc finger protein 10 OS=Homo sapiens GN=PRDM10 PE=1  
SV=3

MSKDESSHVWPTSAEHEQNAAQVHFVPDGTVAQIVYTDDQVRPPQVVYTADGASYTS  
VDGPEHTLVYIHPVEAAQTLFTDPGQVAYVQQDATAQQASLPVHNQVLPSIESVDGSDPL  
ATLQTPLGRLEAKEEEDEDEDEDETEDEEEDGEDTDLDDWEPDPPRPDPHDLWCEECNN  
AHASVCPKHGPHLPIPNRPVLTRARASLPLVLYIDRFLGGVFSKRRIPKRTQFGPVEGPL  
VRGSELKDCYIHLKVSLDKGRKERDLHEDLWFELSDETLCNMMMVFVRPAQNHLEQNLVA  
YQYGHVYVYTTIKNVEPKQELKVWYAASYAEFVNQKIHDISEEERKVLREQEKNWPCYEC  
NRRFISSEQLQQHLNSHDEKLDVFSRTRGRGRGRGKRRFGPGRPPGRPPKFIIRLEITSEN  
GEKSDDGTQDLLHFPTKEQFDEAEPATLNGLDQPEQTTIPIQLPQETQSSLEHEPETHT  
LHLQPQHEESVPTQSTLTADDMRRAKRIRELEQNAALQHLFIRKSFRPFKCLQCGKAFR  
EKDKLDQHLRFHGREGNCLPTCDLCNKGFISSTSLESHMKLHSDQKTYSCIFCPESFDRL  
DLLKDHVAIHINDGYFTCPTCKKRFPDFIQVKKHVRFSFHSEKIYQCTECDKAFCRPDKLR  
LHMLRHSDRKDFLCSTCGKQFKRKDKLREHMQRMHNPEREAKKADRISRSKTFKPRITST  
DYDSFTFKCRLCMMGFRRRGMLVNHLSKRHPDMKIEEVEPELTLP I IKPNRDYFCQYCDKV  
YKSASKRKAHILKNHPGAELPPSIRKLRPAGPGEPDMLSTHTQLTGTIATPPVCCPHCS  
KQYSSKTKMVQHIRKKHPEFAQLSNTIHTPLTTAVISATPAVLTTDSATGETVVTTDLLT  
QAMTELSQTLTTDYRTPQGQDYQRIQYIPVSQSASGLQQPQHILQVQVQVASATSPHQSQQ  
STVDVGQLHDPQYPQHAIQVQHIQVSGQPLSPSAQQAQGLSPSHIQGSSSTQGQALQQ

QQQQQQNSSVQHTYLPSAWNSFRGYSSEIQMMLPPGQFVITDSGVATPVTTGQVKAVTS  
GHYVLSSESQSELEEKQTSALSGGVQVEPPAHSDSLDPQTNSQQQTTQYIITTTTNGNGSS  
EVHITKP

>sp|Q969G5|PRDBP\_HUMAN Protein kinase C delta-binding protein OS=Homo sapiens GN=PRKCDBP  
PE=1 SV=3

MRESALERGPVPEAPAGGPVHAVTVVTLLEKLASMLETLRERQGLARRQGGLAGSVRRI  
QSGLGALSRSHDTTSNTLAQLLAKAERVSSHANAAQERAVRRAAQVQRLEANHGLLVARG  
KLHVLLFKEEGEVPASAFQKAPEPLGPADQSELGPEQLEAEVGESSDEEPVESRAQLRR  
TGLQKVQSLRRALSGRKGAAPPTPVKPPRLGPGRSAEAQPEAQPALEPTLEPEPPQDT  
EEDPGRPGAAEEALLQMESVA

>sp|075626|PRDM1\_HUMAN PR domain zinc finger protein 1 OS=Homo sapiens GN=PRDM1 PE=1 SV=2

MLDICLEKRVGTTLAAPKCNSSTVRFQGLAEGTKGTMKMDMEDADMTLWTEAEFEKCTY  
IVNDHPWDSGADGGTSVQAEASLPRNLLFKYATNSEEVIGVMSKEYIPKGTRFGPLIGEI  
YTNDTVPKNANRKYFWRIYSRGEHFFIDGFNEEKSNNWMRYVNPASPREQNLAAACQNGM  
NIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNLTQTQSSLKQPSTELNELCP  
KNVPKREYSVKEILKLDNSPSKGDLYRSNISPLTSEKDLDDFRRRGSPPEMPFYPRVVYP  
IRAPLPEDFLKASLAYGIERPTYITRSPISSTTPSPSARSSPDQSLKSSSPHSSPGNTV  
SPVGPGSQEHRDSYAYLNASYGTEGLGSYPGYAPLPHLPPAFIPSYNAYHPKFLPPYGM  
NCNGLSAVSSMNGINNFGFLPRLCPVYSNLLGGGSLPHMLNPTSLPSSLPDGAARRLLQ  
PEHPREVLVPAPHSAFSFTGAAASMKDKACSPTSSTAGTAATAEHVVQPKATSAAMAA  
PSSDEAMNLIKNNRMTGYKTLPLKQNGKIKYECNCAKTFGQLSNLKVHLRVHSGE  
RPFKCQTCNKGFTQLAHLQKHVLTGKPEHCQVCHKRFSSTSNLKTHRLHSGEKPYQ  
CKVCPAKFTQFVHLKLHKLHTRERPHKCSQCHKNYIHLCSLKVHLKGNCAAPAPGLPL  
EDLTRINEETIEKFDISDNADRLDVEDDISVISVVEKEILAVVRKEKEETGLKVSLQRNM  
GNGLSSGCSLYESSDLPLMKLPPSNPLPLVPVKVKQETVEPMDP

>sp|Q9NQV8|PRDM8\_HUMAN PR domain zinc finger protein 8 OS=Homo sapiens GN=PRDM8 PE=1 SV=3

MEDTGIQRGIWDGDAKAVQQCLTDIFTSVYTTCDIPENAIFGPCVLSHTSLYDSIAFIAL  
KSTDKRTVPYIFRVDTSANGSSEGLMWLRLVQSARDKEEQNLEAYIKNGQLFYRSLRRI  
AKDEELLVWYGKELTELLLLCPSRSHNMNGSSPYTCLECSQRFQFEFPYVAHLRFRCPK  
RLHSADISPQDEQGGGVGTDHGGGGGGGKDQQQQQQAAPLGPCKAGPLHHYSPS  
PESSNPSAAAGSSAKPSTDFHNLARELENSRGGSSCPAQSLSSGSGSGGGGGHQAEL  
SPDGIATGGGKGRKFPEEAAEGGGAGLVGGRGRFVERPLASKEDLVCTPQQYRASGS  
YFGLEENGRLFAPPSPETGEAKRSFVEVKKAARAASLQEEGTADGAGVASEDQDAGGGG  
GSSTPAAASPVGAEKLLAPRGGPLPSRLEGGSPARGSAFTSVPQLGSAGSTSGGGGTGA  
GAAGGAGGGQGAASDERKSAFSQPARSFSQLSPLVLGQKLGALEPCHPADGVGPTRLYP  
AADPLAVKLQGAADLNGCGSLPSGGGLPKQSPFLYATAFWPKSSAAAAAAAAAAAAAGP  
LQLQLPSALTLLPPSFTSLCLPAQNWCAKCNASFRMTSDLVYHMRSHHKKEYAMEPLVKR  
RREEKLKCPICNESFRERHHLRHMTSHN

>sp|Q96MT3|PRIC1\_HUMAN Prickle-like protein 1 OS=Homo sapiens GN=PRICKLE1 PE=1 SV=2

MPLEMEPKMSKLAFCGQRSSTDDSGCALEEYAWVPGLRPEQIQLYFACLPPEKVPYV  
NSPGEKHRIKQLLYQLPPHDNEVRYCQSLSEEEKELQVFSQARKKEALGRGTIKLLSRA  
VMHAVCEQCGKINGGEVAVFASRAGPGVCWHPSCFVCFTCNELLVDLIYFYQDGKIHCG  
RHHAECLKPRCSACDEIIFADECTEAEGRHWHMKHFCCLECETVLGGQRYIMKDGRPFCC  
GCFESLYAEYCETCGEHIGVDHAQMTYDGGHWHATEACFSCAQCKASLLGCPFLPKQGQI

YCSKTCSLGEDVHASDSSDAFQSARSRDSRRSVRMGKSSRSADQCRQSLLLSPALNYKF  
PGLSGNADDTLSRKLDL SLSRQGT SFASEEFWKGRVEQETPEDPEEWADHEDYMTQLLL  
KFGDKSLFQPQPNEMDIRASEHWISDNMVKSKTELKQNNQSLASKKYQSDMYWAQSQDGL  
GDSAYGSHPGPASSRRLQELELDHGASGYNHDETQWYEDSLECLSDLKPEQSVRDSMDSL  
ALS NITGASVDGENKPRPSLYSLQNFEE METEDCEKMSNMGT LNSSMLHRS AESLKSLS  
ELCPEKILPEEKPVHLPVLRRSKSQSRPQQVKFSDDVIDNGNYDIEIRQPPMSERTRRRV  
YNFEERGSRSHHHRRRRSRKSRSDNALNLVTERKYSKDLRLLYTPDNYEKFIQNKSA  
REIQAYIQNADLYGQYAHATSDYGLQNPGMNRLGLYGEDDDSWCSSSSSSDSEEGYFLG  
QPIQPRPQRFAYYTDLLSSPPSALPTPQFGQRTTKSKKKKGHKGNCIIS

>sp|P04156|PRIO\_HUMAN Major prion protein OS=Homo sapiens GN=PRNP PE=1 SV=1

MANLGCMWLVLVATWSDLGLCKRKP KPGGWNTGGSRYPGGSPGGNRYPPQGGGGWGQP  
HGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMAGAAAAGA  
VVGGLGGYMLGSAMSRPIIHFGSDYEDRYRENMHRYPNQVYYRPMDEYSNQNNFVHDCV  
NITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAYYQRGSSMVLFSPPV  
ILLISFLIFLIVG

>sp|P51817|PRKX\_HUMAN cAMP-dependent protein kinase catalytic subunit PRKX OS=Homo sapiens GN=PRKX PE=1 SV=1

MEAPGLAQAAAAESDSRKVAEETPDGAPALCPSPEALSPEPPVYSLQDFDTLATVGTGTF  
GRVHLVKEKTAKHFFALKVMSIPDVIRLKQEQHVHNEKSVLKEVSHPFILRLFTWHD  
ERFLYMLMEYVPGGELFSYLRNRRGFSSTTGLFYSAEIIICAIEYLHSKEIVYRDLK  
PENILLDRDGHIKLTDFGFAKKLVDRWTLCGTPEYLAPEVIQSKGHGRAVDWWALGILIF  
EMLSGFPPFFDDNPFGIYQKILAGKIDFPRHLDFHVKDLIKKLLVVDRTRR LGNMKNG  
ANDVKHHRWFRSVDWEAVPQRKLKPIVPKIAGDGDSNFETYPENDWDTAAPVPQKDLEIFKNF

>sp|Q8NHR9|PROF4\_HUMAN Profilin-4 OS=Homo sapiens GN=PFN4 PE=1 SV=1

MSHLQSLLLDTLLGTHKVD SAALIKIQERSLCVASPGFNVTSPDVRTL VNGFAKNPLQAR  
REGLYFKGKDYRCVRADEYSLYAKNENTGVVVVKTHLYLLVATYTEGMYP  
SICVEATESLGDYLRKKGS

>sp|Q9H606|PRORY\_HUMAN Proline-rich protein, Y-linked OS=Homo sapiens GN=PRORY PE=2 SV=1

MMRRSPSLKSPRVSQGRKPRDPESLLFLRCCLGSEPHNLSSLLSPEAGQEPLPKLLPQP  
LAGHAAWGIHGVPTSLLLAGECWGQGMVADPPPASP YRTSPRPPGPLPRYRPQQHLL  
LPLGRLHALCPGCLQQSLQFERGTLSAPRLWSWMKLETIILSKLSQGQKTKHRMFS  
LISES

>sp|P07225|PROS\_HUMAN Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

MRLVGGRCGALLACLLLVLPVSEANFLSKQASQVLVRKRRANSLEETKQGNLERECIE  
ELCNKEEAREVFENDPETDYFYPKYLVLRSFQTGLFTAARQSTNAYPDLRSCVNAIPDQ  
CSPLPCNEDGYMSCKDGKASFTCTCKPGWQGEKCEFDINECKDPSNINGGCSQICDNTPG  
SYHCSCKNGFVMLSNNKDKCDVDECSLKPSICGTAVCKNIPGDFECECEGYRYNLKSKS  
CEDIDECSENMCAQLCVNYPGGYTCYCDGKKGFKLAQDQKSCEVVSVCPLPLNLDTKYELL  
YLAEQFAGVVLYLKFR LPEISRFSAEFDFRTYDSEGVILYAESIDHSAWLLIALRGGKIE  
VQLKNEHTSKITTGDDVINGLWNMVSVEELEHSISIKIAKEAVMDINKPGPLFKPENGL  
LETKVYFAGFPRKVESELIKPINRLDGCIRSWNLKQGASGIKEIIQEKQNKHCLVTVE  
KGSYYPGSGIAQFHIDYNNVSSAEGWHVNVTLNIRPSTGTGVMLALVSGNNTVPFAVSLV  
DSTSEKSDILLVENTVIYRIQALSLCSDQQSHLEFRVNRNNELESTPLKIETISHEDL  
QRQLAVLDKAMKAKVATYLGGLPDVPFSATPVNAFYNGCMEVNINGVQLDLDEAISKHND



IRAHSCPSVWKKTKNS

>sp|P22891|PROZ\_HUMAN Vitamin K-dependent protein Z OS=Homo sapiens GN=PROZ PE=1 SV=2

MAGCVPLLQGLVLVLALHRVPSVFLPASKANDVLVRWKRAGSYLLEELFEGNLEKECYE  
EICVYEEAREVFENEVVTDEFWRRYKGGSPCISQPCLHNGSCQDSIWGYTCTCSPGYEGS  
NCELAKNECHPERTDGCQHFCLPGQESYTCSCAQGYRLGEDHKQCVPDQCACGVLTSK  
RAPDLQDLPWQVKLTNSEGKDFCGGVIIRENFVLTTAKCSLLHRNITVKTYFNRTSQDPL  
MIKITHVHVHMYRADADAGENDLSLLELEWPIQCPGAGLPVCTPEKDFAEHLLIPRTRGLL  
SGWARNGTDLGNSLTTRPVTLVEGEECGVLNVTVTTRTYCERSSVAAMHWMGDSVVTRE  
HRGSWFLTGVLGSPVGGQAHMVLVTKVSRYSLWFKQIMN

>sp|O60508|PRP17\_HUMAN Pre-mRNA-processing factor 17 OS=Homo sapiens GN=CDC40 PE=1 SV=1

MSAAIAALAASYGSGSGSESDSESSRCPLPAADSLMHLTKSPSSKPSLAVAVDSAPEV  
AVKEDLETGVHLDPAVKEVQYNPTYETMFAPEFGPENPFRTQQMAAPRNMLSGYAEP  
AHINDFMFEQQRRTFATYGYALDPSLDNHQVSAKYIGSVEEAEKNQGLTVFETGQKKTEK  
RKKFKENDASNIDGLGPWAKYVDEKDVAKPSEEEQKELDEITAKRQKKGKQEEEPGEEK  
TILHVKEMYDYQGRSYLHIPQDVGVNLRSTMPPEKCYLPKKQIHVWSGHTKGVSAVRLF  
PLSGHLLSCSMDCKIKLWEVYGERRCLRTFIGHSKAVRDICFNTAGTQFLSAAAYDRYL  
KLWDTETGQCISRFTNRKVPYCVKFNPDQKQNLFVAGMSDKKIVQWDIRSGEIVQEYDR  
HLGAVNTIVFDENRRFVSTSDDKSLRVWEWDIPVDFKYIAEPSMHSMPTLSPNGKWLAC  
QSMDNQILIFGAQNRFRNLKKKIFKGHMVAGYACQVDFSPMSYVISGDGNGKLNIDWKT  
TKLYSRFKAHDKVCIGAVWHPHETSKVITCGWDGLIKLWD

>sp|Q86UA1|PRP39\_HUMAN Pre-mRNA-processing factor 39 OS=Homo sapiens GN=PRPF39 PE=1 SV=3

MQNSHMDEYRNSSNGSTGNSSEVVVEHPTDFSTEIMNVTEMEQSPDDSPNVNASTEET  
EMASAVIDLPVTLTETANFPPEYEFKFWKTVENNPQDFTGWVYLLQYVEQENHLMARK  
AFDRFFIHYPCYGYWKKYADLEKRHDNIKPSDEVYRRGLQAIPLSVDLWIHYINFLKET  
LDPGDPETNNTIRGTFEHAVLAAGTDFRSDRLWEMYINWENEQGNLREVTAIYDRILGI  
PTQLYSHHFQRFKEHVQNNLPRDLLTGEQFIQLRRELASVNGHSGDDGPPGDDLPSGIE  
DITDPAKLITEIENMRHRIIEIHQEMFNNEHEVSKRWTFEEGIKRPYFHVKPLEKAQL  
KNWKEYLEFEIENGTHERRVVLFERCVISCALYEEFWIKYAKYMNHSIEGVRHVFSRAC  
TIIHLPKPKMVHMLWAAFEEQQGNINEARNILKTFEECVLGLAMVRLRRVSLERRHGN  
LEEAHLLQDAIKNAKSNNESSFYAVKLARHLFKIQKNLPKSRKVLLEAIERDKENTKLY  
LNLLEMEYSGDLKQNEENILNCFDKAVHGSPLIKMRITFSQRKVEFLEDGSDVNKLLN  
AYDEHQTLTKEQDSLKRKAENGSEEPKEKAHTEDTSSSTQMIDGDLQANQAVYNYS  
AWYQYNYQNPWNYGQYYPPT

>sp|Q15149|PLEC\_HUMAN Plectin OS=Homo sapiens GN=PLEC PE=1 SV=3

MVAGMLMPRDLRAIYEVLFREGVMVAKDRRPRSLHPHPVGTNLQVMRAMASLRARGL  
VRETFAWCHFYWYLTNEGIAHLRQYLHLPPEIVPASLQVRVRPVAMVMPARRTPHVQAV  
QGPLGSPPKRGPLPTEEQRVYRRKELEEVSPETPVVPATTQRTLARPGPEPATDERDRV  
QKKTFTKWVNKHLIKAQRHISDLYEDLRDGHNLISLLEVLSGDSLPREKGRMRFHKLQNV  
QIALDYLRHRQVKLVNIRNDDIADGNPKLTLGLIWTIIILHFQISDIQVSGQSEDMTAK  
EKL LLSQRMVEGYQGLRCDNFTSSWRDGRLFNAI IHRHKPLLIDMNKVYRQTNLENLDQAF  
SVAERDLGVTRLLDPEDVDVPQPEKSIITYVSSLYDAMPVPDVQDGV RANELQLRWQE  
YRELVL LLLQWMRHHTAAFEERRFPSSFEIEILWSQFLKFEMELPAKEADKNRSKGIY  
QSLEGAVQAGQLKVP PGYHPLDVEKEWGLHVAILEREKQLRSEFERLECLQRIVTKLQM  
EAGLCEEQLNQADALLQSDVRLAAGKVPQRAGEVERDLDKADSMIRLLFNDVQTLKDGR

HPQGEQMYRRVYRLHERLVAIRTEYNLRLKAGVAAPATQVAQVTLQSVQRRPELEDSTLR  
YLQDLLAWVEENQHRVDGAEWGVDLPVSVEAQLGSHRGLHQSIEEFRAKIERARSDEGQLS  
PATRGAYRDCLGRDLQYAKLLNSSKARLSLESLSHSFVAATKELMWLNEKEEEEVGF  
WSDRNTNMTAKKESYSALMRELELKEKKIKELQNAGDRLLREDHPARPTVESFQAALQTQ  
WSWMLQLCCCI EAHLKENAAYFQFFSDVREAEGQLQKLQEALRRKYSCDRSATVTRLEDL  
LQDAQDEKEQLNEYKGHL SGLAKRAKAVVQLKPRHPAHPMRGRLPLLAVCDYKQVEVTVH  
KGDECQLVGPAQPSHWKVLSSSGSEAAVPSVCFLVPPPNQEAQEA VTRLEAQHQALVTLW  
HQLHVDMSLLAWQSLRRDVL IRSWSLATFRTLKPEEQRQALHSLELHYQAFLRDSQDA  
GGFGPEDRLMAEREYGSCSHHYQQLQSLEQGAQEE SRCQRCISELKDIRLQLEACETRT  
VHRLRLPLDKEPARECAQRIAEQQKAQAEVEGLGKGVARLSAEAEKV LALPEPSPAAPT  
RSELELTGKLEQVRSLSAIYLEKLKTI SLVIRGTQGAEEVLRAHEEQLEAQAVPATLP  
ELEATKASLKKLRAQAEAQPTFDALRDELGAQEVGERLQQRHGERDVEVERWRERVAQ  
LLERWQAVLAQTDVRQRELEQLGRQLRYYRESADPLGAWLQDARRRQEQIQAMPLADSQA  
VREQLRQE QALLEEIERHGKEVEECQRFQKQYINAIKDYELQLV TYKAQLEPVASPAKKP  
KVQSGSESVIQEYVDLRTHYSELTTLSQYIKFISETLRRMEEEERLAEQQRAEERERLA  
EVEAALEKQRQLAEHAQAKAQAEEREAKELQQRMQEEVVRREEAAVDAQQKRSIQEELQ  
QLRQSSEAEIQAKARQAEAAERSRLRIEEEIRVVRLQLEATERQRGGAEGELQALRARAE  
EAEAQKRQAQEEAERLRRQVQDESQRKRQAEVELASRVKAEAEAAREKQRALQALEELRL  
QAEAAERRLRQAEVERARQVQVALETAQRSAAELQSKRASFAEKTAQLERSLQEEHVAV  
AQLREEAERRAQQAERAREEAERELERWQLKANEALRLRLQAEVVAQQKSLAQAEAE  
KQKEEAEREARRGKAEEQAVRQRELAEQELEKQRQLAEGTAQQLAAEQELIRLRAETE  
QGEQQRQLLEEELARLQREAAAATQKRQELEAE LAKVRAEMEVLLASKARAEESRSTSE  
KSKQRLEAEAGRFRLEAEAAARLRLALAEAKRQRQLAEEDAARQRAEAERVLAEKLAATG  
EATRLKTEAEIALKEKEAENERLRRLAEDEAFQRRRLEEQAQHKADIEERLAQLRKASD  
SELERQKGLVEDTLRQRQVVEEILALKASFEEAAAAGKAELELELGRIRSNADTLRSKE  
QAELEAARQRQLAAEEERRRREAEERVQKSLAAEEEAARQRKAAL EEVERLKAKVEEARR  
LRERAEQESARQLQLAQEAQKRLQAEKKAHFAVQQKEQELQQT LQQEQSVLDQLRGEA  
EAARRAAEEAEARVQAEREAQSRQVVEEAERLKQSAEEQAQARAQAAAAEKLKEAE  
QEAARRAQAEQAALRQKQAADAEMEKHKFAEQTLRQKAQVEQELTTLRLQLEETHQKN  
LLDEELQRLKAEATEAARQRSQVEEELFSVRVQMEELSKLKARIEAENRALILRDKDNTQ  
RFLQEEAEKMKQVAEEAARLSVAAQEAARLRQLAEEDLAQQRALAEKMLKEKMQAVQEAT  
RLKAEAE LLQQQKELAQEQARRLQEDKEQMAQQLAETQGFQRTLEAERQRQLEMSAEAE  
RLKL RVAEMSRAQARAEEDAQFRKQAEI GEKLRHRELATQEKVTLVQTLEIQRQQSDH  
DAERLREAI AELEKEKEKLQQEAKLLQLKSEEMQTVQQEQLLQETQALQQSFLSEKDSLL  
QRERFIEQEKAKLEQLFQDEVAKAQQLREEQQRQQQQMEQERQLVASMEEARRRQHEAE  
EGVRRKQEELQLEQQRQQEELLAEENQRLREQLQLLEE QHRAALAHSEEV TASQVAAT  
KTLPNGRDALDGPAAEAPEHSFDGLRRKVS AQRLQEAGILSAEELQRLAQGHTTVDELA  
RREDVRHYLQGRSSIAGLLKATNEKLSVYAALQRQLLSPGTALILLEAQ AASGFLLDPV  
RNRRLTVNEAVKEGVVGP ELPHHKLLSAERAVTGYKDPYTGQQISLFQAMQKGLIVREHGI  
RLLEAQIATGGVIDPVHSHRPVDVAYRRGYFDEEMNRVLADPSDDTKGFFDPNTHENLT  
YLQLLERCVEDPETGLC LLPLTDKAAKG GELVYTDSEARDVFEKATVSAPFGKFQGKTVT  
IWEIINSEYFTA EQRRDLLRQFRTGRITVEKIIKIIITVVEEQEQKGRLCFEGLRSLVPA  
AELLESRVIDRELYQQLQRGERSVRDVAEVDTVRRALRGANVIAGVWLEEAGKLSIYNA  
LKKDLLPSDMAVALLEAQAGTGHIIDPAT SARLTVDEAVRAGLVGPEFHEKLLSAEKAVT

GYRDPYTGQSVSLFQALKKGLIPREQGLRLDAQLSTGGIVDPSKSHRVPLDVACARGCL  
DEETSRALSAPRADAKAYSDPSTGEPATYGELQQRCPDQLTGLSLLPLSEKAARARQEE  
LYSELQARETFEKTPEVVPVGGFKGRTVTWELISSEYFTAEQRQELLRQFRTGKVTVEK  
VIKILITIVEEVETLRQERLSFSGLRAPVPASELLASGVLSTRAQFEQLKDGKTTVKDLSE  
LGSVRTLLQSGCLAGIYLEDTKKVSIEAMRRGLLRATTAALLLEAQAATGFLVDPVR  
NQRLYVHEAVKAGVVGPELHEQLLSAEKAVTGYRDPYSGSTISLQAMQKGLVLRQHGIR  
LLEAQIATGGIIDPVHSHRVVPDVAYQRGYFSEEMNRVLADPSDDTKGFFDPNTHENLTY  
RQLLERCVEDPETGLRLLPLKGAEKAEVVETTQVYTEETTRAFEETQIDIPGGGSHGGS  
TMSLWEVMQSDLIPEEQRAQLMADFQAGRVTKERMIIIIIEIEKTEIIRQQGLASYDYV  
RRRLTAEDLFEARIISLETYNLLREGTRSLREALEAESAWCYLYGTGSVAGVYLPGSRQT  
LSIYQALKKGLLSAEVARLLLEAQAATGFLDPVKGERLTVDEAVRGLVGPPELHDLRLS  
AERAVTGYRDPYTEQTISLQAMKKELIPTEEALRLDAQLATGGIVDPRLGPHLPLEVA  
YQRGYLNKDTHTDQLEPSEVRSYVDPSTDERLSYTLRRRCRRDDGTGQLLLPLSDARKL  
TFRGLRKQITMEELVRSQVMDEATALQREGLTSEEVTKNLQKFLEGTSCIAGVFVDAT  
KERLSVYQAMKKGIIRPGTAFELLEAQAATGYVIDPIKGLKLTVEEAVRMGIVGPEFKDK  
LLSAERAVTGYKDPYSGKLISLQAMKKGLILKDHGIRLLEAQIATGGIIDPEESHRLPV  
EVAYKRGLFDEEMNEILTDPSSDDTKGFFDPNTEENLTYLQLMERCITDPQTGLCLPLKE  
KKRERKTSSKSSVRKRRVVIDPETGKEMSVYEAYRKGLIDHQTYLELSECEWEEITI  
SSSDGVVKSMIDRRSGRQYDIDDAIAKNLIDRSALDQYRAGTSLITEFADMLSGNAGGF  
RSRSSVSGSSSYPISPAVSRTQLASWSDPTEETGPVAGILDTETLEKVSITEAMHRNLV  
DNITGQRLLAQACTGGIIDPSTGERFPVTDVANKGLVDKIMVDRINLAQKAFCGFEDPR  
TKTKMSAAQALKKGWLYYEAGQRFLEVQYLTGGLIEPDTPGRVPLDEALQRGTVDARTAQ  
KLKRDVGAYSKYLTCPKTKLKISYKDALDRSMVEEGTGLRLLLEAAQSTKGYSPYSVSGS  
GSTAGSRTGSRTGSRAGSRRGSFDTGSGFSMTFSSSYSSSGYGRRYASGSSASLGGPE  
SAVA

>sp|P49763|PLGF\_HUMAN Placenta growth factor OS=Homo sapiens GN=PGF PE=1 SV=2

MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVD  
VVSEYPSEVEHMFSPSCVSLRCTGCCGDENLHCPVETANVTMQLLKIRSGDRPSYVEL  
TFSQHVRCECRHSPGRQSPDMPGDFRADAPSFLPPRRSLPMLFRMEWGCALTGSQSAVWP  
SSPVPEEIPRMHPGRNGKKQQRKPLREKMKPERCGDAVPRR

>sp|Q99541|PLIN2\_HUMAN Perilipin-2 OS=Homo sapiens GN=PLIN2 PE=1 SV=2

MASVAVDPQPSVTVRVNPLVSSTYDLMSAYLSTKDQYPYLKSVCEMAENGVTITSV  
AMTSALPIIQKLEPQIAVANTYACKGLDRIEERLPILNQPSTQIVANAKGAVTGAKDAVT  
TTVTGAKDSVASTITGVMDKTGAVTGSVEKTSVVSINTVLGSRMMQLVSSGVENAL  
TKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLSTKLHSRAYQQALSRVK  
EAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES  
HCAEHIESRTLAIARNLTQQLQTTCHTLLSNIQGVQNIQDQAKHMGVMAGDIYSVFRNA  
ASFKEVSDSLTSSKGQLQMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGA  
EMDKSSQETQRSEHKTH

>sp|Q496M5|PLK5\_HUMAN Inactive serine/threonine-protein kinase PLK5 OS=Homo sapiens  
GN=PLK5 PE=1 SV=4

MYTVLTGTPPFMASPLSEMYQNIREGHYPEPAHLSANARRLIVHLLAPNPAERPSLDHLL  
QDDFFTQGFPTDRLPAHSCHSPPIFAIPPLGRIFRKVGQRLLTQCRPPCPFTPEASGP  
GEGGPDPDSMEWDGESSLSAEKVPCLGPIHLVAQGTQLQSDLAGPEGSRRPEVEAALRHL

QLCLDVGPATQDPLGEGQPILWAPKWVDYSSKYGFGYQLLDGGRTGRHPHPATPRREG  
TLTPVPPAGPGLCLRFLASEHALLLLFSNGMVQVSFSGVPAQLVLSGEGEGLQLTLWE  
QGSPGTSYSLDVPRSHGCAPTGGQLHHLRMLQSI

>sp|P41247|PLPL4\_HUMAN Patatin-like phospholipase domain-containing protein 4 OS=Homo sapiens GN=PNPLA4 PE=2 SV=3

MKHINLSFAACGFLGIYHLGAASALCRHGKLVKDVKAFAFAGASAGSLVASVLLTAPEKIE  
ECNQFTYKFAEEIRRQSFGAVTPGYDFMARLRSGMESILPPSAHELAQNRLHVSITNAKT  
RENHLVSTFSSREDLIKVLLASSFVPIYAGLKLVEYKGQKWDGGLTNALPILPVGRVT  
ISPFSGRLDISPQDKGQLDLYVNIQKDIMLSLANLVRLNQALFPPSKRKMESLYQCGFD  
DTVKFLLKENWFE

>sp|Q8TBJ4|PLPR1\_HUMAN Phospholipid phosphatase-related protein type 1 OS=Homo sapiens GN=PLPPR1 PE=2 SV=1

MAVGNNQSRYSIIPCFIFVELVIMAGTVLLAYYFECTDTFQVHIQGFFCQDGDLMKPYP  
GTEESFITPLVLYCVLAATPTAIIFIGEISMYFIKSTRESLIAQEKILTGECCYNPL  
LRRIIRFTGVFAFGLFATDIFVNAGQVVTGHLTPYFLTVCKPNYTSADCQAHHQFINNGN  
ICTGDLEVIEKARRSFPSKHAALSIYSALYATMYITSTIKTKSSRLAKPVLCLGTLCTAF  
LTGLNRVSEYRNHCSVDIAGFILGTAVALFLGMCVVHNFKGTQGSPSKPKPEDPRGVPLM  
AFPRIESPLETLSAQNHASMTVT

>sp|Q96GM1|PLPR2\_HUMAN Phospholipid phosphatase-related protein type 2 OS=Homo sapiens GN=PLPPR2 PE=2 SV=1

MAGGRPHLKRSFSIIPCFVFVESVLLGIVILLAYRLEFTDTPVHTQGFFCYDSTYAKPY  
PGPEAASRVPPALVYALVTAGPTLTILLGELARAFFPAPPSAVPVIGESTIVSGACCRFS  
PPVRRLLVRFLGVYSFGLFTTIFANAGQVVTGNPTPHFLSVCRPNYTALGCLPPSPDRPG  
PDRFVTDQGACAGSPSLVAAARRAFPCDAALCAYAVTYTAMVYTLVFRVKGSRVLPKPSL  
CLALLCPAFLVGVRVAEYRNHWSVDLAGFLTGAATATFLVTCVVHNFQSRPPSGRRLSP  
WEDLGQAPTMDSPLEKNPRSAGRIRHRHGSPHPSRRTAPAVAT

>sp|Q9HBL7|PLRKT\_HUMAN Plasminogen receptor (KT) OS=Homo sapiens GN=PLGRKT PE=1 SV=1

MGFIFSKSMNESMKNQKEFMLNARLQLERQLIMQSEMRRERQMAMQIAWSREFLKYFGTF  
FGLAAISLTAGAIKKKKPAFLVPIVPLSFILTYQYDLGYGTLLERMKGEAEDILETEKSK  
LQLPRGMITFESIEKARKEQSRFFIDK

>sp|Q15319|PO4F3\_HUMAN POU domain, class 4, transcription factor 3 OS=Homo sapiens GN=POU4F3 PE=1 SV=1

MMAMNSKQPFGMHPVLQEPKFSSLHSGSEAMRRVCLPAPQLQGNIFGSFDESLLARAEAL  
AAVDIVSHGKNHPKPDATYHTMSSVPCTSTSSTVPISHPAALTSHPHHAVHQGLEGDLL  
EHISPTLSVSGLGAPEHSVMPAQIHPHHLGAMGHLHQAMGMSHPHTVAPHSAMPACLSDV  
ESDPRELEAFAERFKQRRIKLGVTDVGAALANLKIPGVGSLSQSTICRFESLTLSHNN  
MIALKPVLQAWLEEAAYREKNSKPELFGSERKRRKRTSIAAPEKRSLEAYFAIQPRPS  
SEKIAAIAEKLDLKNVVRVWFCNQKQKQKRMKYSAPH

>sp|Q99575|POP1\_HUMAN Ribonucleases P/MRP protein subunit POP1 OS=Homo sapiens GN=POP1 PE=1 SV=2

MSNAKERKHAKMRNQPTNVTLSGGFVADRGVKKHSGGEKPFQAQKQEPHPGTSRQRQTR  
VNPHSLPDPEVNEQSSSKGMFRKKGGWKAGPEGTSQEIPKYITASTFAQARAAEISAMLK  
AVTQKSSNSLVFQTLPRHMRRRAMSHNVKRLPRRLQEIAQKEAEKAVHQKKEHSKNKCHK  
ARRCHMNRTLEFNRRQKKNIWLETHIWHAKRFHMKVKKWGYCLGERPTVKSHRACYRAMTN

RCLLQDLSYYCCLELKGKEEELKALSGMCNIDTGLTFAAVHCLSGKRQGSVLVYRVNKY  
PREMLGPVTFIWKSRTPGDPSESRLWIWLHPTLKQDILEEIKAACQCVEPIKSAVCIA  
DPLTPSQEKSQTELPDEKIGKKRKRKDDGENAKPIKKIIGDGRDPCLPYSWISPTTGI  
IISDLTMEMNRFRLIGPLSHSILTEAIIKAASVHTVGEDTEETPHRWWIETCKKPDVSLH  
CRQEAIPELLGGITSPAEIPAGTILGLTVGDPRINLPQKKSALPNPEKQDNEKVRQLL  
LEGVPVECTHSFIWNQDICKSVTENKISDQDLNMRSELLVPGSQLILGPHESKIPILLI  
QQPGKVTGEDRLGWGSGWDVLLPKGWGMFWIPFIYRGVRVGGKESAVHSQYKRSPNVP  
GDFPDCPAGMLFAEEQAKNLEKYKRRPPAKRPNYVKLGTLPFCCPWEQLTQDWESRVQ  
AYEESVASSPNGKESDLRRSEVPCAPMPKKTHQPSDEVGTSIEHPREAEVMDAGCQES  
AGPERITDQEASENHVAATGSHLCVLRSRKLLKQLSAWCGPSSDSRGRRAPGRGQQGL  
TREACLSILGHFPRALVWVSLLSKGSPEPHTMICVPAKEDFLQLHEDWHYCGPQESKH  
SDPFRSKILKQKEKKKREKRQKPRASSDGPAGEEPVAGQEALTLGLWSGPLPRVTLHCS  
RTLGLFVTQGDFSMAVGCGEALGFVSLTGLLDMLSSQPAARGLVLLRPPASLQYRFARI  
AIEV

>sp|Q969H6|POP5\_HUMAN Ribonuclease P/MRP protein subunit POP5 OS=Homo sapiens GN=POP5  
PE=1 SV=1

MVRFKHRYLLCELVSDDPRCRLSLDDRVLSSLVRDTIARVHGTFGAAACSIGFAVRYLNA  
YTGIVLLRCRKEFYQLVWSALPFITYLENKGHRYPCFFNTLHVGGTIRTCQKFLIQYNRR  
QLLILLQNCTDEGEREAIQKSVTRSCLEEEEEESGEEAAEAME

>sp|P62714|PP2AB\_HUMAN Serine/threonine-protein phosphatase 2A catalytic subunit beta  
isoform OS=Homo sapiens GN=PPP2CB PE=1 SV=1

MDDKAFTKELDQWVEQLNECKQLNENQVRTLCEKAKEILTKESNVQEVRCPVTVCADVHG  
QFHDLMELFRIGGKSPDTNYLFMGDYVDRGYYSVETVTLVALKVRYPERITILRGNHES  
RQITQVYGFYDECLRKYGNANVWKYFTDLFDYLPLTALVDGQIFCLHGGLSPSIDTLDHI  
RALDRLQEVPEHGPMDLLWSDPDRGGWGISPRGAGYTFGQDISETFNHANGLTVSRA  
HQLVMEGYNWCHDRNVVTIFSAPNYCYRCGNQAAIMELDDTLKYSFLQFDPAPRRGEPHV  
TRRTPDYFL

>sp|P16298|PP2BB\_HUMAN Serine/threonine-protein phosphatase 2B catalytic subunit beta  
isoform OS=Homo sapiens GN=PPP3CB PE=1 SV=2

MAAPEPARAAPPPPPPPPPGADRVVKAVFPFPTHRLTSEEVDLDGIPRVDVLKNHLV  
KEGRVDEEIALRIINEGAAILRREKTMIEVEAPITVCGDIHGQFFDLMKLFEVGGSPANT  
RYLFLGDYVDRGYFSIECVLYLVWLKILYPSTLFLLRGNHECRHLTEYFTFKQECKIKYS  
ERVYEACMEAFDSLPLAALLNQQLCVHGGLSPEIHTLDDIRRLDRFKEPPAFGPMCDLL  
WSDPSEDFGNEKSQEHFSHNTVRGCSYFYNYPAVCEFLQNNLLSIIIRAHEAQDAGYRMY  
RKSQTTGFPSLITIFSAPNYLDVYNKAAVLKYENVMNIRQFNCSPHPYWLPNFMVDVFT  
WSLPFVGEKVTEMLVNVLISCSDELMTGEDQFDGSAAARKEIIRNKIRAIGKMARVFS  
VLREESVSLTLKGLTPTGMLPSGVLAGGRQTLQSATVEAIEAEKAIRGFSPPHRCSFE  
EAKGLDRINERMPPRKDAVQQDGFNSLNTAHATENHGTGNHTAQ

>sp|P13686|PPA5\_HUMAN Tartrate-resistant acid phosphatase type 5 OS=Homo sapiens GN=ACP5  
PE=1 SV=3

MDMWTALLILQALLPSLADGATPALRFVAVGDWGGVPNAPFHTAREMANAKEIARTVQI  
LGADFILSLGDNFYFTGVQDINDKRFQETFEDVFSRSLRKVPWYVLAGNHDHLGNVSAQ  
IAYSKISKRWNFSPFYRLHFKIPQTNVSVAIFMLDVTVLCGNSDDFLSQQPERPRDVKL  
ARTQLSWLKKQLAAAREDYVLVAGHYPVWSIAEHGPTHCLVKQLRPLLATYGVTAYLCGH

DHNLQYLQDENGVGIVLSGAGNFMPSKRHRKVPNGYLRPHYGTEDSLGGFAYVEISSK  
EMTVTYIEASGKSLFKTRLPRRARP

>sp|Q4J6C6|PCCEL\_HUMAN Prolyl endopeptidase-like OS=Homo sapiens GN=PREPL PE=1 SV=1

MQQKTKLFLQALKYSIPHLGKCMQKQHLNHYNFADHCYNRIKLKKYHLTKCLQNKPKISE  
LARNIPSRSFSCKDLQPVKQENEKPLPENMDAFEKVRTKLETQPQEEYEIINVEVKHGGF  
VYYQEGCCLVRSKDEEADNDNYEVLNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSE  
ASTCVIIKLSQPVMEASFNVSSFEWVKDEEDEDVLFYTFQRNLRCHDVYRATFGDNKR  
NERFYTEKDPSYFVFLYLTKDSRFLTINIMKTTSEVWLIDGLSPWDPVLIQKRIHGV  
YYVEHRDDELYILTNVGEPTEFKLMRTAADTPAIMNWDLFTMKRNTKVIDLDMFKDHCV  
LFLKHSNLLYVNVIGLADDSVRSLKLPPWACGFIMDTNSDPKNCPPQLCSPIRPPKYTY  
KFAEGKLFEETGHEDPITKTSRVLRLAKSKDGKLVPMTVFHKTDSEDLQKKPLLHVY  
AYGMDLKMNFRPERRVLVDDGWILAYCHVRGGGELGLQWHADGRLTKKLNLADLEACIK  
TLHGQGFSPSLTTLTAFSAGGVLAGALCNSNPVLRAVTLAPFLDVLNTMMDTTLPLT  
LEELEEWGNPSSDEKHKNYIKRYCPYQNIKPQHYPYIHITAYENDERVPLKGIVSYTEKL  
KEAIAEHAKDTGEGYQTPNIIIDIQPGGNHVIDSHKKITAQIKFLYEELGLDSTSVFED  
LKKYLKF

>sp|Q9UKL6|PPCT\_HUMAN Phosphatidylcholine transfer protein OS=Homo sapiens GN=PCTP PE=1  
SV=1

MELAAGSFSEEQFWEACAELQQPALAGADWQLLVETSGISIRLLDKKTGLYEYKVFVGL  
EDCSPTLLADIYMSDYRKQWDQYVKELYEQECNGETVVYWEVKYFPMSNRDYYVLRQR  
RDLDMEGRKIHVILARSTSMPLQGERSGVIRVKQYKQSLAIESDGKKGSKVFMYYFDNPG  
GQIPSWLINWAAKNGVFNFLKDMARACQNYLKKT

>sp|Q8WUA2|PPIL4\_HUMAN Peptidyl-prolyl cis-trans isomerase-like 4 OS=Homo sapiens  
GN=PPIL4 PE=1 SV=1

MAVLLETTLGDVVIDLYTEERPRACLNFLKLCKIKYNYCLIHNVQRDFIIQTGDPTGTG  
RGGESIFGQLYGDQASFFAEKVPRIKHKKKGTVMVNNGSDQHGSQFLITTGENLDYLD  
GVHTVFGEVTEGMDI IKKINETFVDKDFVPYQDIRINHTVILDDPFDDPPDLLIPDRSPE  
PTREQLDSGRIGADEEIDDFKGRSAEEVEEIKAEKEAKTQAILLEMVGDLPDADIKPPEN  
VLFVCKLNPVTTDELEIIFSRFGPIRSCEVIRDWKTGESLCYAFIEFEKEEDCEKAFFK  
MDNVLIDRRRIHVDFSQSVAKVKWKGKGGKYTKSDFKEYEKEQDKPPNLVLKDKVKPKQD  
TKYDLILDEQAEDSKSSHSTSKHKKKTHHCSEEKEDEDYMPIKNTNQDIYREMGFGHY  
EEEESCWEKQKSEKRDRTQNRSRSRERDGHYSNSHKSQYQTDLYERERSKKRDRSRSP  
KKSKEKESKYR

>sp|Q9H939|PIIP2\_HUMAN Proline-serine-threonine phosphatase-interacting protein 2 OS=Homo  
sapiens GN=PSTPIP2 PE=1 SV=4

MTRSLFKGNFWSADILSTIGYDNI IQHLNNGRKNCKEFEDFLKERAIEERYGKDLLNLS  
RKKPCGQSEINTLKRALEVFKQQVDNVAQCHIQLAQSLREEARKMEEFREKQKLQRKKTE  
LIMDAIHKKSLQFKKTMDAKKNYEQKCRDKDEAEQAVSRANLVNPKQKEKLFVKLATS  
KTAVEDSDKAYMLHIGTLDKVVREEWQSEHIKACEAFEAQECERINFFRNALWLHVNLQSQ  
QCVTSDEMYEQVRKSLEMCISQIRDIYFVNQRKTGQIPPAPIMYENFYSSQKNAVPAGKA  
TGNLARRGPLPIPKSSPDDPNYSLVDDYSLLYQ

>sp|Q8N755|PQLC3\_HUMAN PQ-loop repeat-containing protein 3 OS=Homo sapiens GN=PQLC3 PE=2  
SV=1

MEAALLGLCNWSTLGVCAALKLPQISAVLAARSARGLSLPSLLLELAGFLVFLRYQCYYG

YPPLTYLEYPIILIAQDVILLLCIFHFNGNVKQATPYIAVLVSSWFILALQKWIIDLAMNL  
CTFISAASKFAQLQCLWKTRDSGTVSALTWSLSSYTCATRIITLMTNDFTILLRFVIM  
LALNIWVTVTVLRYSKTAIKAE

>sp|075807|PR15A\_HUMAN Protein phosphatase 1 regulatory subunit 15A OS=Homo sapiens  
GN=PPP1R15A PE=1 SV=1

MAPGQAPHQATPWDAHPFFLLSPVMGLLSRAWSRLRGLGLEPWLVEAVKGAALVEAGL  
EGEARTPLAIPHTPWGRRPEEEAEDSGGPGEDRETGLKTSSSLPEAWGLDDDDGMYGE  
REATSVPRGQGSQFADGQRAPLSPSLLIRTLQGSQKNPGEKAEKEEGVAEEEGVNKFSYP  
PSHRECCPAVEEEDDEEAVKKEAHRSTSTALSPGSKPSTWVSCPGEENQATEDKRTERS  
KGARKTSVSPRSSGSDPRSWEYRSGEASEEKEEKAHKETGKGEAAPGPQSSAPAQRPQLK  
SWWCQPSDEEEGEVKALGAAEKDGEAECPPCIPPPSAFLKAWVYWPGEDEEEDEEEDE  
DSDSGSDEEEGEAEASSSTPATGVFLKSWVYQPGEDTEEEDESDTGSADEREAETSA  
STPPASAFKAWVYRPGEDTEEEDEEDVDSKEDDSEALGEAEDPHPSHPDQRAHFR  
GWGYRPGKETEEEEAAEDWGEAECPPFRVAIYVPGEKPPPPWAPPRLPLRLQRRLKRPET  
PTHDPDPETPLKARKVRFSEKVTVHFLAVWAGPAQAARQGPWEQLARDRSRFARRITQAQ  
EELSPCLTPAARARAWARLRNPPLAPIALTQTLPSSSVPSPVQTTPLSQAVATPSRSS  
AAAAAALDLSGRRG

>sp|P86479|PR20C\_HUMAN Proline-rich protein 20C OS=Homo sapiens GN=PRR20C PE=1 SV=1

MEEPSPSKRLRSMAPNQASGGPPPEPGCCVADPEGSVEADGPAQPAQPAKPIAYVKPFRR  
QPPARPESPPPAERGRRRGSRPRGRGRRRAGPRGDAGQRQGAELMAPDVHIQLDHHG  
EPGHQGEPEITETAFAFSLSETGPPPGTVQEGPGPDVAQPELGFQEPAPAGPQAVDWQPV  
LTLYPCIGFRALGDSAVLQVIQTPQGTYVQGVFVFLTDIAY

>sp|O60809|PRA10\_HUMAN PRAME family member 10 OS=Homo sapiens GN=PRAMEF10 PE=2 SV=4

MSLQAPSRLLELAGQSLLRNQFLTIFTLDELPREVFPLMFMEAFSMRRFEALKLMVQAWP  
FLRLPLGSLMKTPHLETQAVLRGLDTLVAQKVRPRRWKLQVLDLRDVENFWTIWSGAR  
VLSCSPEAMSKRQTVEDCPRMGERQPLKVFIDLCLKESTLDECLSYLFGWIHYRRGLVHL  
CCSKVQNYSMPTSSFRNLLERIYPDSIQELEVVKKCSLNKTGKFAPYLSQMSNLRFLA  
FGYERELYVSQWPCIPDLDSPFLCLYYPQMLYIKKISNIKEHLEHLLRYLKNPLGAFIF  
SDAYLTDREMECLSQYPSLSQLKELRLIHILMWTNLEPLGVLEKVAATLKTLLVKDCR  
IQDPQLRVLLPALSHCSQLTTFNFHGNETSMNALKDLLRHTRGLSKLGLLEYPAPLES LD  
YKGVHNWEILTPIRAELMRTLREVRQPKRIFFGPVPCNCGSWPSEKVD FHLCS

>sp|Q5VTA0|PRA17\_HUMAN PRAME family member 17 OS=Homo sapiens GN=PRAMEF17 PE=2 SV=1

MSLQSPSRLELAGQSLLRNQFLTIFILDELPREVFPLMFMEASSMRHFEALKLMVQAWP  
FLRLPLGSLMKTPHLETQAVLRGLDTLLAQKLRPRRWKLQVLDLRDVGDFWTIWSGAR  
ALSCSPEAMSKRQTVEDYPRTEGHQPLKVFIDLCQKESTLDECLSYLCRWIHYRRGLVHL  
CCNKVQNYSMPTSSFRNLLKRVYPDSIQELEIKRKC SLNKTGKFAPYLSQMSNLRKLFLA  
FGYDDELYVSGQQQFVPDLDCPFLCLYYPQMLYIRKISNIKEHLEHLLRCLKNPLGT FIF  
CHAYLADQDMECLSQYPSLSQLKELHLIHILMWTNLEPLGALLEKVAATLEILTLKDCQ  
IQDSQLRVLLPALSRCSQLTTFYFRGNETSTNALKDLLCHTGGLSKLGLLEYPAPLECLD  
NRGVHNWEILAPIRAELMCTLREVRQPKRIFFGPIPCPSCGSWPSEKVD FHLCS

>sp|Q9UBK2|PRGC1\_HUMAN Peroxisome proliferator-activated receptor gamma coactivator 1-  
alpha OS=Homo sapiens GN=PPARGC1A PE=1 SV=1

MAWDMCNQDSESVWSDIECAALVGEDQPLCPDLPELDLSELDVNDLDTDSFLGGLKWCS D  
QSEIISNQYNNEPSNIFEKIDEENEANLLAVLTETLDSL PVDEDGLPSFDALTDGDVTTD

NEASPSMPDGTTPPPQEAEEPSLLKKLLAPANTQLSYNECSGLSTQNHANHNHRIRTNP  
AIVKTENSWSNKAKSICQQQKPQRRPCSELLKYLTTNDPPHTKPTENRNSSRDKCTSKK  
KSHTQSQSQHLQAKPTTSLPLTPESPNDPKGSPFENKTIERTLSVELSGTAGLTPPTTP  
PHKANQDNPFRA PKLKSSCKTVVPPPSKKPRYSESSGTQGNSTKKGPEQSELYAQLSK  
SSVL TGGEERKTKRPSLRLFGDHDYCQSINSKTEILINISQELQDSRQLENKDVSSDWQ  
GQICSSTDSDQCYLRETLEASKQVSPCSTRKQLQDQEI RAELNKHFGHPSQAVFDDEADK  
TGELRSDSFSNEQFSKLP MFINSGLAMDGLFDDSEDES DKL SYPWDGTQSYSLFNVSPSC  
SSFNSPCRDSVSPPKSLFSQRPQRMRSRSRFSRHRSCSRSPYSRSRSRSPGSRSSSRSC  
YYYESSHYRHRTHRNSPLYVRSRSRSPYSRRPRYDSYEEYQHERLKREEYRREYEKRESE  
RAKQRERQRQKAIEERRVIYVGKIRPDTTRTEL RDRFEVFG EIEECTVNL RDDGDSYGF I  
TYRYTCDAFAALENGYTLRRSNETDFELYFCGRKQFFKSNYADLDSNSDDFDPASTKSKY  
DSLDFDSLLKEAQRSLRR

>sp|P06401|PRGR\_HUMAN Progesterone receptor OS=Homo sapiens GN=PGR PE=1 SV=4

MTELKAKGPRAPHVAGGPPSPEVGSPLLCPAAGPFGSQTS DTLPEVSAIPISLDGLLF  
PRPCQGQDPSDEKTDQQLSDVEGAYSRAEATRGAGGSSSPPEKDSGLLDSVLDTLA  
PSGPGQSQSPSPACEVTSSWCLFGPELPEDPPAAPATQRVLSPLMSRSGCKVGDSSGTAA  
AHKVLPRGLSPARQLLLPASESPHWSGAPVKPSPQAAAVEVEEEDGSESEESAGPLLK GK  
PRALGGAAGGGA AVPPGAAAGGVALVPKEDSRFSAPRVALVEQDAPMAPGRSPLATTV  
MDFIHVPILPLNHALLAARTRQLLEDES YDGGAGAASAFAPPRSSPCASSTPVAVGDFPD  
CAYPPDAEPKDDAYPLYSD FQPPALKIKEEEEGAEASARSPRSYLVAGANPAAFPDPFLG  
PPPPLPRATPSRPGEA AVTAAPASASVSSASSSGSTLECILYKAEGAPPQGGPFAPPPC  
KAPGASGCLLP RDGLPSTSASAAAAGAAPALYPALGLNGLPQLGYQAAVLKEGLPQVYPP  
YLN YLRPDSEASQSPQYSFESLPQKICLCGDEASGCHYGVLTCGSCKVFFKRAMEGQHN  
YLCAGRND CIVDKIRRKNC PACRLRKCQAGMVLGGRKFKFNKVRVVRALDAVALPQPV  
GVPNESQALSQRFTFSPGQDIQLIPPLINLLMSIEPDVIYAGHDNTKPD TSSSLLTSLNQ  
LGERQLLSVVKWSKSLPGFRNLHIDDQITLIQYSWMSLMVFLGWRSYKHVSGQMLYFAP  
DLILNEQRMKESSFYSLCLTMWQIPQEFVKLQVSQEEFLCMKVL LLLNTIPLEGLRSQTQ  
FEEMRSSYIREL IKAIGLRKQGVVSSSRFYQLTKLLDNLHDLVKQLHLYCLNTFIQSRA  
LSVEFP EMMSEVIAAQLPKILAGMVKPLL FHKK

>sp|075569|PRKRA\_HUMAN Interferon-inducible double-stranded RNA-dependent protein kinase  
activator A OS=Homo sapiens GN=PRKRA PE=1 SV=1

MSQSRHRAEAPLEREDSGTFSLGKMITAKPGKTPIQVLHEYGMKTKNIPVYECERSDVQ  
IHVPTFTFRVTVDITCTGEGTSKKLAKHRAAEAAINILKANASICFAVPDPLMPDPSKQ  
PKNQLNP IGSQELAIHHGWRLPEYTLSEQEGPAHKREYTTICRLESF METGKGASKKQA  
KRNAAEKFLAKFSNISPENHISLTNVVGHSLGCTWHS LRNSPGEKINLLKRSLLSIPNTD  
YIQLLSEIAKEQGFNITYLDIDELSANGQYQCLAE LSTSPITVCHGSGISCGNAQSDAAH  
NALQYLKIIAERK

>sp|Q9NNZ6|PRM3\_HUMAN Protamine-3 OS=Homo sapiens GN=PRM3 PE=3 SV=1

MGRCAKLNTGQSPGHSPGHSTGHGRGHESMKKL MACVSQDNFSLSSAGEEEEEEEEG  
EEEEKEELPVQGKLLLEPERQE EGQKDNAEAQQSPEPKQTPS

>sp|E7EW31|PROB1\_HUMAN Proline-rich basic protein 1 OS=Homo sapiens GN=PROB1 PE=2 SV=2

MLTALAPPALPGIPRQLPTAPARRQDSSGSSGSYYTAPGSPEPPDVGPDAKGPANWPWVA  
PGRGAGAQRLSVSAQNSRQRHGP GSGFPRGPGSGPRPPQQLRTLPSGEMEVI FGVGPL  
FGCSGADDREAQQQFTEPAFISPLPPGPASPAAVPRQSQVPDGGSRWATYLELRPRGPSP



AAPAFECVEVALEEGAAPARPTVPKRQIELRPRPQSPRAAGAPRPRLLLRTGSLDES  
LGPLQAAAAGFVQTALARKLSPEAPAPSSATFGSTGRSEPETRETARSTHVLEKAKSRPL  
RVRDNSAPAKAPRPWPSLRERAIRRDKPAPGTEPLGPVSSSIFLQSEEKIQEARKTRFPR  
EAPDRTVQRARSPPFECRIPSEVPSRAVRPRSPSPRQTPNGAVRGPRCSPQNLSPWDR  
TTRRVSSPLFPEASSEWENQNPAVEETVSRSPSPPILSQWNQCVAGERSPSLEAPSLWE  
IPHSADAVEPRSSPSPAFFPWEAPDRPIGTWGPSPQETWDPMPGSSIAFTQEAQNG  
LTQEELAPPTPSAPGTPEPTMQSPSTREISDLAFGGSQSQSPEVAAPPEPPGSHVGTLD  
DKCPEVLGPGEAASGRPRMAIPRPRDVRKLVKTTYAPGFPAGAQQSGLPAPPADPCGEEG  
GESKTQEPPALGPPAPAHYTSVFIKDFLPVVPHPYEPPEPSFDTVARDASQPNGVLRRA  
ENSTAKPFKRTEIRLPGALALGRRPEVTSRVRARGPGGENRDVEAQLVPDGDGRTSPLG  
GARSSSQRSPVGPAGVRSRPRGSPQMNASPSPGIAPKPKTPPTAPEAAAQAPLPREPL  
ALAGRTAPAQPRAASAPPTDRSPQSPSQGARRQGAAPLGKVLDPESGRYYFVEAPRQP  
RLRVLFDPESGQYVEVLLPPSSPGPPHRVYTPLALGLGLYPPAYGPIPSLSLPPSPGPQA  
LGSPQLPWVSEAGPLDGTYYLPVSGTPNPAPPLLLCAPSSSGPTQPGKGSFLPL

>sp|Q5T8A7|PPR26\_HUMAN Protein phosphatase 1 regulatory subunit 26 OS=Homo sapiens  
GN=PPP1R26 PE=1 SV=1

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RGTSDERAAQRGHRAEGCHDARPAAKPTVHKEPPALAVCGLVADFDPMGEEETDFGPLV  
LDSDSDSVDRDIEEAIQEYLKAKSGAAQPGAGGAQPGAAQPSRAAGGSRCKPEPAHGS  
APTALCPPKLVPGSGGGPGSQVGS SKDQGSASPVSVSSDSEFQSIIRAEIEQFLNEKRQH  
ETQKCDGSVEKKPDNENSALLKSHQEPPTKVVRHQGLLVQKEFAFRKPPRLAKMNV  
QPRSLRSKVTQTQENEGSTKPTPCRPSEAAQNKGKIKRSASAARRGKRVMSAAQASEAS  
DSSSDDGIEEAIQLYQLQKTRKEADGDLQQRVQLREERAPDPPAHSTSSATKSALPETHR  
KTPSKKKLVATKTMDPGPGGLDTHAPKLLKETKAPPPASPARSEFVERSSCRADTSAE  
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FLALKAQSGSLLARGESCPAAQGPLLPGLNSQTGGHKTPLSKTPDPLLGCKRKRGGG  
HVRPSTPKMKQEVVKDGSQDADHSQGRAEPGHERRDLPIQKASEALGEGGTARGPGDTR  
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KVRFSTAQTHFLEQLGGLRRDWKDRGPPVLKSKLSKSRDSGEGPGKKPPSVFGSTAERM  
RQGAASQDAALAFRRVPASASASEGNPFPRESQGPAPSPGSLSDSSSVSDSND SIELE  
IRKFLAEKAKESVSSEVQAEPTALGTGGPARPEVLCRKEPAPPPGVCTRQRARGVPH  
LAEGLRGTESAGAQTAGLFSQGGKGLPAAPARGDPVPPRSTSGGVSAGLSVSRNNVYV  
HKDQSPRGAEPAAKSAFGQLPSCATAGTEAGGARGTFHMGCGSPSFLTPSPGAERDAGAQ  
ADRTPPWSDFAHQSRLPSPWVLRSEGRDAVWRGGVGSERDKGSEGPARGLPSLPLAGFSP  
LLSTQLFHFQKGVSWGGRQAGLFSPLGLPLQGPSFSAFREAQAGPSPVFGSPHLLAKKD  
GGPWPTRKAQAGLSLHDRSSSGSEESILDLYRRRVNRDDQE QDALGSDASDFS DTSTED  
SGGSSVVKV

>sp|Q16821|PPR3A\_HUMAN Protein phosphatase 1 regulatory subunit 3A OS=Homo sapiens  
GN=PPP1R3A PE=1 SV=3

MEPSEVPSQISKDNFLEVPNLSDSLCEDEEVTFQPGFSPQPSRRGSDSSEDIYLDTPSSG  
TRRVSFADSFGNLVSVEFDCWELPSASTTFDLGTDIFHTEEYVLAPLFDLPSSKEDLM  
QQQLIQKAILESTESLLGSTSIKGIIRVLNVSFEKLVYVRMSLDWQTHYDILA EYVPNS  
CDGETDQFSFKIVLPPYQKDGSKVEFCIRYETSVGTFWSNNGTNYTFICQKKEQEPEP  
VKPWKEVPNRQIKGCLKVKSSKEESSVTSEENN FENPKNTDTYIPTIICSHEDKEDLEAS

NRNVKDVNREHDEHNEKELELMINQHLIRTRSTASRDERNTFSTDPVNFPNKAEGLEKKQ  
IHGEICTDLFQRSLSPPSSSAESSVKGDFYCNEKYSSGDDCTHQPSEETTSNMGEIKPSLG  
DTSSDELVLQHTGSKEVLDDNANPAHGNGTVQIPCPSSDQLMAGNLNKKHEGGAKNIEVK  
DLGCLRRDFHSDTSACLKESTEEGSSKEDYYGNGKDDEEQRIYLGVNEKQRKNFQITILHD  
QERKMGNPKISVAGIGASNRDLATLLSEHTAIPTRAITADVSHSPRTNLSWEEAVLTPEH  
HHLTSEGSALGGITGQVCSRTGNVLRNDYLFQVEEKSGGINSQDQNSPQHKQSWNVLE  
SQGKSRENKTNITEHIKQTDCEVDWGKRDNTRSLKATTEELFTCQETVCCELSSLADHG  
ITEKAEAGTAYIIKTTESTPESMSAREKAIIAKL PQETARSDRPIEVKETAFDPHEGRN  
DDSHYTLCQRDVTGVIYDNDFEKESRLGICNVVRDEMEKEETMSMYNPRKTHDREKCGTG  
NITSVEESSWVITEYQKATSKLDLQLGMLPTDKTVFSENRLRQVQELSKKTDSDAIVHS  
AFNSDTNRAPQNSSPFSKHTEISVSTNEQAI AVENAVTTMASQPISTKSENICNSTREI  
QGIEKHPYPESKPEEVSRSIGVTSGSRKERCIGQIFQTEEYSVEKSLGPMILINKPLEN  
MEEARHENEGLVSSGQSLYTSGEKESDSSASTSLPVEESQAQGNESLFSKYTNSKIPYFL  
LFLIFLITVYHYDLMIGLTFYVLSLSWLSWEEGRQKESVKKK

>sp|Q9H7J1|PPR3E\_HUMAN Protein phosphatase 1 regulatory subunit 3E OS=Homo sapiens  
GN=PPP1R3E PE=1 SV=2

MSRERPPGTDIPRNLFSFIAALTERAYYRSQRPSLEEEPEEEPPGEGGTRFGARSRAHAPSR  
GRRARSAPAGGGGARAPRSRSPDTRKRVRFADALGLELAVVRRFRPGELPRVPRHVQIQL  
QRDALRHFAPCQPRARGLQEARAALPASEPGFAARLLTQRICLERAEAGPLGVAGSARV  
VDLAYEKRVSVRWSADGWRSQREAPAAAYAGPAPPPPRADRFARLPAPPIGGALLFALRY  
RVTGHEFWDNNGRDYALRGPEHPGSGGAPEPQGWIIHI

>sp|P86496|PR20A\_HUMAN Proline-rich protein 20A OS=Homo sapiens GN=PRR20A PE=2 SV=1

MEEPRPSKRLRSMAPNQASGGPPPEPGCCVADPEGSVEADGPAQPAQPAKPIAYVKPFRR  
QPPARPESPPPAERGRRRGSRPRGRGRRRAGPRGDAGQRQGAEGLMAPDVHIQLDHHG  
EPGHQGEPEITETAAFSLSETGPPPGTVQEGPGPDVAQPELGFQEPAPAGPQAVDWQPV  
LTLYPCIGFRALGDSAVLQVIQTPQGTYVQGVFVFLTDIAY

>sp|A6NEV1|PR23A\_HUMAN Proline-rich protein 23A OS=Homo sapiens GN=PRR23A PE=3 SV=1

MGSRPRSPSAFPAPWWGQQPGGPGPAKRLRLEEPAGPEPRVAPSLEDPAGTPAVGALTSI  
VVLAAGCALRVPLDDVDLVLELPPTSILRVSLDGHTLILIPVLLSSVDESGAQDDSSA  
GLEVDVFLGALREDVVVEQEVFCASVPEIAAQEEAYEEDADPEFPQLQMDSAAGSAAGLY  
SSARSMFSPYREGPIPEPCALAPNPSSSEGHSPGPFDFPEFRLLPEVPSSPLQLPSPSRV  
GSPGPHAHPPLPKRPPCKARRRLFQE

>sp|Q6ZRP0|PR23C\_HUMAN Proline-rich protein 23C OS=Homo sapiens GN=PRR23C PE=2 SV=1

MGRPCSPSACLAPWWGQQPGGPGPAKRSLRLEEPAGPESRAAPSPEDPAGTPAVDALTSM  
VVLDAGCALRVPLEDVLVLELPMSVLRVSLGGHTLIVIPVLLSSVDECSGAQGDWSA  
GLEVDVFLGAHGEDVVVEQEVFCASVPEIAAEEEEAYEEDADSEFPQLWMDSAAGSAAGLYP  
SARSMFSPYREGPIRGPCALAPNPSSERRSPRIFDLEFHLLPEVPSSPLQLPSPSPG  
PHARPELPERPPCKVRRRLFQE

>sp|O75400|PR40A\_HUMAN Pre-mRNA-processing factor 40 homolog A OS=Homo sapiens GN=PRPF40A  
PE=1 SV=2

MRPGTGAERGGLMVSESHPPSQGPGDGERRLSGSSLCSGSWVSADGFLRRRPSMGHPG  
MHYAPMGHMPGQRANMPVPVPHGMMPQMMPPMGPPMGQMPGMMSSVMPGMMMSHMSQAS  
MQPALPPGVNSMDVAAGTASGAKSMWTEHKSPDGRITYYNTETKQSTWEKPDCLKTPAEQ  
LLSKCPWKEYKSDSGKPYYYNSQTKESRWAKPKELEDLEGYQNTIVAGSLITKSNLHAMI

KAEESKQEECTTTSTAPVPTTEIPTTMSTMAAAEAAAAVVAAAAAAAAAAAAANANAST  
SASNTVSGTVPVPEPEVTSIVATVVDNENTVTISTEEQAQLTSTPAIQDSVEVSSNTG  
EETSKQETVADFTPKKEEESQPAKKTYTWNTKEEAKQAFKELLKEKRVPSNASWEQAMK  
MIINDPRYSALAKLSEKKQAFNAYKVQTEKEEKEEARSKYKEAKESFQRFLNHEKMTST  
TRYKKAEQMFGEVWNAISERDRLEIYEDVLFFLSKKEKEQAKQLRKRNWEALKNILDN  
MANVTYSTTWSEAQQYLMDNPTFAEDEELQNMDKEDALICFEEHIRALEKEEEEEKQKSL  
LRERRRQRKNRESFQIFLDELHEHGQLHSMSSWMELYPTISSDIRFTNMLGQPGSTALDL  
FKFYVEDLKARYHDEKKIIKDILKDKGFVVEVNTTFEDFVAIISSTKRSTLDAGNIKLA  
FNSLLEKAEAREREREKEEARKMKRKESAFKSMKQAAPPIELDAVWEDIRERFVKEPAF  
EDITLESERKRIFKDFMHVLEHECQHHSKNKKHKKSKKKHHRKRSRSGSDSDDDDSH  
SKKKRQRSESRSAEHSSEAESERSYKSKKKHKKSKKKRRHKS DSPESDAEREKDKKEKD  
RESEKDRTRQRSESKHKSPPKKTKGDSGNWDTSGSELSEGELEKRRRTLLEQLDDDQ

>sp|A3QJZ7|PRA27\_HUMAN PRAME family member 27 OS=Homo sapiens GN=PRAMEF27 PE=3 SV=2

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WPFRRLLPLRLIKMPCLEAFQAVLDGLDALLTQGVCPRRWKLQVLDLQDVCENFWMVWSE  
AMARGSFNLAKRNKTPVQDCPRMRGQQPLTVFVELWLKNRTLDEYLTYLLLWVKQRKDLL  
HLCKKLIKILGMPFRNIRSILKMVNLDICIQEVVNCKWVLPILTQFTPYLGHRNLQKLV  
LSHMDVSRYVSPEQKEIVTQFTTQFLKLHCLQKLYMNSVSFLEGHLDQLLSCLKTSKLV  
LTITNCVLLESCLKHLSQCPSISQLKTLDSGIRLTNYSLVPLQILLEKVAATLEYLDLD  
DCGIIDSQVNAILPALSRFCFELNAFSFCGNPISMATLENLLSHTIILKNLCVEVYPAPRE  
SYGADGTLCWNRFAQIRAEMLNVRDLRHPKRIFFCIDNCPDCGNRSFYDLEADQYCC

>sp|Q92733|PRCC\_HUMAN Proline-rich protein PRCC OS=Homo sapiens GN=PRCC PE=1 SV=1

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AFPPPLLLPPPTGDPRLQPPPPLPFLGGLGFPVSPAEAGVGEGLGLGLSPRGPGL  
NLPPPIGGAGPPLGLPKPKRKEPVKIAAPELHKGSDSDEDEPTKKKTI LQGSSEGTGL  
SALLPQPKNLTVKETNRLLPHAFSRKPSDGSPTKPSRLASKTKTSSLAPVVGTTTTTP  
SPSAIKAAAKSAALQVTQKITQEEDSDSEEVAPENFFSLPEKAEPPGVEPYPIPTVPE  
ELPPGTEPEPAFQDDAANAPLEFKMAAGSSGAPWMPKPGDDYSYNQFSTYGDANAAGAYY  
QDYYSGGYYPAQDPALVPPQEIAPDASFIDAEAFKRLQGKRNRGREEINFVEIKGDDQLS  
GAQQWMTKSLTEETMKSFSKKKGEQPTGQQRKHQITYLIHQAKERELELKNTWSENKL  
SRRQTQAKYGF

>sp|Q9H4Q3|PRD13\_HUMAN PR domain zinc finger protein 13 OS=Homo sapiens GN=PRDM13 PE=2  
SV=2

MHGAARAPATSVSADCCIPAGRLRGVPVGTFLKGKYLSDRREP GPKKKVRMVRGELVDES  
GGSPLEWIGLIRAARNSQEQTLEATADLPGGQIFYRALRDVQGEELTVWYSNSLAQWFD  
IPTTATPTHDEKGEERYICWYCWRTFRYPNSLKAHLRFHCVFSGGGGGAFLHHEHAARQG  
AVPAADGLGLSPKPPAPDFAAPSQAGTLRPHPLGPPPVQACGAREGIKREASSAPSATSP  
TPGKWGQPKKGKEQLDRALDMSGARGQGHLGIVGGSSAGVGS LAFYPGVRSFAKPAGL  
ARAAAAAHGDPYRESSSKQAGLALGRLLGGGRACGRPGSGENSAAGGAGHHHHHHHHH  
HHHPKCLLAGDPPPPPPPLPCSGALRGFPLLSVPPPEASAFKHVERAPPAAAAALPGARY  
AQLPPAPGLPLERCALPPLDPGGLKAYPGGECSHLPVMPAFTVYNGELLYGSPATTAYY  
PLKLHFGGLLKYPESISYFSGPAAAAALSPAELGSLASIDREIAMHNQQLSEMAAGKGRGR  
LDSGTLPPAVAAAGTG GGGSGGSGAGKPKTGHLCLYCGKLYSRKYGLKIHMRTHTGYKP  
LKCKVCLRPFGDPSNLNKHIRLHAEGNTPYRCEFCGKVLVRRRDLERHVKS RHPGQSLLA

KAGDGPGEPPGDPKSDSDVDVCFDQSDPEVGGGGERDL

>sp|Q9NQX0|PRDM6\_HUMAN Putative histone-lysine N-methyltransferase PRDM6 OS=Homo sapiens  
GN=PRDM6 PE=2 SV=2

MLKPGDPGGS AFLKVDPAYLQHWQQLFPHGGAGPLKGSAGLLSAPQLQPPPPPPPE  
RAEPPDSL RPRPASLSSASSTPASSSTSASSASSCAAAAAAALAGLSALPVSQLPVFA  
PLAAAAVA AEPLPPKELCLGATSGPGPVKCGGGGGGEGRGAPRFCSAEELDYYLYGQ  
QRMEI IPLNQHTSDPNNRCMDNNGECPMHGPHLSLRLVGTSSAAAAAPPPELPEW  
LRDLPREVCLCTSTVPGLAYGICAAQRIQQGTWIGPFQGVLLPPEKVQAGAVRNTQHLWE  
IYDQDGT LQHFDIGGEPSKSSWMRYIRCARHCGEQNLTVVQYRSNIFYRACIDIPRGTEL  
LVWYND SYTSFFGIPLQCIAQDENLNPSTVMEAMCRQDALQPFNKSSKLAPTTQQRSV  
FPQTPCSRNFSLDKSGPIESGFNQINVKNQRVLASPTSTS QLHSEFSDWHLWKCGQCFK  
TFTQRILLQMHVCTQNPDRPYQCCHCSQSFSQPSSELRNHVVTHSSDRPFKCGYCGRAFAG  
ATLNNHIRTHTGEKPFKCERCERSFTQATQLSRHQMPNECKPITESPESIEVD

>sp|P51888|PRELP\_HUMAN Prolargin OS=Homo sapiens GN=PRELP PE=1 SV=1

MRSPLCWLLPLLILASVAQQPTRRPRPGTGPRRPRRPRPTSPFPQDEPAEPTDLPP  
PLPPGPPSIFPDCPRECYC PPDFSALYCD SRNL RKVPVIPPRIHYLYLQNNFITELPVE  
SFQ NATGLRWINLDNNRIRKIDQ RVLEKLPGLVFLYMEKNQLEEVPSALPRNLEQLRLSQ  
NHISRIPPGVFSKLENLLLLDLQHNRLSDGVFKPDTFHGLKNLMQLNLAHNILRKMPPRV  
PTAIHQLYLDSNKIETIPNGYKSF PNLAFIRLNYNKLTDRGLPKNSFNISNLLVLHLSH  
NRISSVPAINNRL EHLYLNNNSIEKINGTQICPNDLVAFHDFSSDLENVPHLRYLRDGN  
YLKPP IPLDLMMCFRL LQSVVI

>sp|Q70Z35|PREX2\_HUMAN Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger  
2 protein OS=Homo sapiens GN=PREX2 PE=2 SV=1

MSEDSRGDSRAESAKDLEKQLRLRVCVLSSELQKTERDYVGTLEFLVSAFLHRMNQCAASK  
VDKNVTEETVKMLFSNIEDILAVHKEFLKVVEECLHPEPNAQQEVGTCFLHFKDKFRIYD  
EYCSNHEKAQKLLLELNKIRTIRTFLLNCMLLGGRKNTDVPLEGYLVTPIQRICKYPLIL  
KELLKRTPRKHS DYAAVMEALQAMKAVCSNINEAKRQMEKLEVLEEWQSHIEGWECSNIT  
DTCTEMLMCGVLLKISSGNIQERVFFLFDNLLVYCKRKHRLKNSKASTDGHRYLFRGRI  
NTEVMEVENVDGDTADFHSSGHIVVNGWKIHN TAKNKWFVCM AKTPEEKHEWFEAILKER  
ERRKGLKLGM EQDTWVMISEQGEKLYKMMCRQGNLIKDRKRKLTFPKCFLGSEFVSWLL  
EIGE IHRPEEGVHLGQALLENGI IHHVTDKHQFKPEQMLYRFRYDDGTFYPRNEMQDVIS  
KGVRLYCR LHS LFTPVIRDKDYHLRTYKSVVMANKLIDWLI AQGDCRTREEAMIFGVGLC  
DNGFMHHVLEKSEFKDEPLLFRFFSDEEMEGSNMKHRLMKHDLKVVENVIAKSLLIKSNE  
GSYGFGLEDKNKVPIIKLVEKGSNAEMAGMEVGKKIFAINGDLVFM RPFNEVDCFLKSCL  
NSRKPLRVLVSTKPRETVKIPDSADGLGFQIRGFGPSVVHAVGRGTAAAAAGLHPGQCTI  
KVNGIN VSKETHASVIAHVTACRKYRRPTKQDSIQWVYNSIESAQEDLQKSHSKPPGDEA  
GDAFDCKVEEVIDKFNTMAIIDGKKEHVS LTVDNVHLEYGVVYEYDSTAGIKCNVVEKMI  
EPKGFFSLTAKILEALAKSDEHFVQNTSLNSLNEVIPTDLQSKFSALCSERIEHLCQRI  
SSYKKFSRVLKNRAWPTFKQAKSKISPLHSSDFCPTNCHVNVMEVSYPKTSTSLGSAFGV  
QLDSRKHNSHDKENKSSEQGLSPMVIYIQTITTTMAAPSGLSLGQQDGHGLRYLLKEEDL  
ETQDIYQKLLGKLQTALKEVEMVCQIDDLSSITYSPKLERKTSEGIPTDSDNEKGER  
NSKRVCFN VAGDEQEDSGHDTISNRDSYSDCNSNRNSIASFTSICSSQCSSYFHSDEMDS  
GDELPLSVRISHDKQDKIHSCLEHLFSQVDSITNLLKGQAVVRAFDQTKYLTPGRGLQEF  
QQEME PKLSCPKRLRLHIKQDPWNLPSVRTL AQNIRKFVEEVKCRLLLALLEYS DSETQ

LRRDMVFCQTLVATVCAFSEQLMAALNQMFDSKENEMETWEASRRWLDQIANAGVLFHF  
QSLLSPNLTDEQAMLEDTLVALFDLEKVSFYFKPSEEEPLVANVPLTYQAEGRQALKVY  
FYIDSYHFEQLPQRLKNGGGFKIHPVLFAQALESMEGYYYRDNVSVEEFQAQINAASLEK  
VKQYNQKLRAFYLDKSNPPNSTSKAAYVDKLMRPLNALDELYRLVASFIRSKRTAACAN  
TACSASGVGLLSVSSELCNRLGACHIIMCSSGVHRCTLSVTLEQAIILARSHGLPPRYIM  
QATDVMRKQGARVQNTAKNLGVRDRTPQSAPRLYKLCEPPPPAGEE

>sp|P49642|PRI1\_HUMAN DNA primase small subunit OS=Homo sapiens GN=PRIM1 PE=1 SV=1

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NNQSDLEKEMQKMNPYKIDIGAVYSHRPNQHNTVKLGAFQAQEKELVFDIDMTDYDDVRR  
CCSSADICPKCWTLMTAIRIIDRALKEDFGFKHRLWVYSGRRGVHCWVCDESVRKLSSA  
VRSGIVEYLSLVKGGQDVKKKVHLSEKIHPFIRKSINIIKKYFEEYALVNQDILENKESW  
DKILALVPETIHDELQQSFQKSHNSLQRWEHLKKVASRYQNNIKNDKYGPWLEWEIMLQY  
CFPRLDINVSKGINHLLKSPFSVHPKTGRISVPIDLQKVDQFDPFTVPTISFICRELDI  
STNEEEKEENEAESDVKHRTDYKKTSLAPYVKVFEHFLENLDKSRKGELLKKSDLQKDF

>sp|Q9UF12|PROD2\_HUMAN Probable proline dehydrogenase 2 OS=Homo sapiens GN=PRODH2 PE=2  
SV=1

MSPRVVSNSVLASQSVGITNVRTVFSNVFNNTAFPILRGSNCHKITAPGLGKGQLVNL  
LPPENLPWCGGSQGPRMLRTCYVLCSQAGPPSRGWQSLSFDGGAFHLKGTGELTRALLVL  
RLCAWPPLVTHGLLLQAWSRRLGSRLSGAFLRASVYGQFVAGETAEEVKGCVQQLRTLS  
LRPLLAVPTEEEPDSAAKSGEAWYEGNLGAMLRCDLSRGLLEPPSLAEASLMQLKVTA  
TSTRCKELASWVRPGASLESPERLAEAMDQNLQVSCNAEQNHRLRASLSRLHRV  
AQYARAQHVRLLVDAEYTSNPALSLLVAALAVRWNSPGEGGPWWNTYQACLKDTFERL  
GRDAEAAHRAGLAFGVKLVRGAYLDKERAVAQLHGMEDPTQPDYEATSQSYSRCLEMLT  
HVARHGPMMCHLMVASHNEESVRQATKRMWELGIPLDGTVCFGQLGMCDHVSLALGQAGY  
VVKSIPIYGSLEEVIPLYLIRRAQENRSVLQGARREQELLSQELWRRLLPGCRRIPH

>sp|P07737|PROF1\_HUMAN Profilin-1 OS=Homo sapiens GN=PFN1 PE=1 SV=2

MAGWNAYIDNLMADGTCQDAAIVGYKDSVSWAAVPGKTFVNITPAEVGLVGKDRSSFY  
VNGLTLGGQKCSVIRDSLLQDGEFSMDLRTKSTGGAPTFTNVTVTCTDKTLVLLMGKEGVH  
GGLINKKCYEMASHLRRSQY

>sp|O94903|PROSC\_HUMAN Proline synthase co-transcribed bacterial homolog protein OS=Homo  
sapiens GN=PROSC PE=1 SV=1

MWRAGSMSAELGVGCALRAVNERVQQAVARRPRDLPAIQPRLVAVSKTKPADMVEAYGH  
GQRTFGENYVQELLEKASNPKILSLCPEIKWHFIGHLQKQNVNKLMAVPNLFMLETVDSV  
KLADKVNSSWQRKGSPERLKVMVQINTSGEESKHGLPPSETIAIVEHINAKCPNLEFVGL  
MTIGSFGHDLSQGPNDPQLLLSLREELCKKLNIPADQVELSMGMSADFQHAVEVGSTNV  
RIGSTIFGERDYSSKPTPDKCAADVKAPEVAQEH

>sp|O43172|PRP4\_HUMAN U4/U6 small nuclear ribonucleoprotein Prp4 OS=Homo sapiens GN=PRPF4  
PE=1 SV=2

MASSRASSTQATKTKAPDDLAPVVKPHIYYGSLEEKERERLAKGESGILGKDGLKAGI  
EAGNINITSGEVFEIEEHISERQAEVLAEFERRKRARQINVTDDSEVKACLRALGEPIT  
LFGGPAERRERLRNLSVVGTDALKKTKKDDKSKKSKEEYQQTWYHEGPNLSKVARLW  
IANYSLPRAMKRLEEARLHKEIPETTRTSQMQLHKSLRSLNNFCSQIGDRPISYCHFS  
PNSKMLATACWSGLCKLWSVPDCNLLHTLRGHNTNVGAIVFHPKSTVSLDPKDVNLASCA  
ADGSVKLWSLDSDEPVADIEGHTVRVARVMWHPSGRFLGTTCYDRSWRLWDLEAQEEILH

QEGHSMGVYDIAFHQDGLAGTGGDLDAFGRVWDLRTGRCIMFLEGHLKEIYGINFSPNGY  
HIATGSGDNTCKVWDLRQRRVCYTIPAHQNLVTGVKFEPHGNFLLTGAYDNTAKIWITHP  
GWSPLKTLAGHEGKVMGLDISSDGQLIATCSYDRTFKLWMAE

>sp|Q6P2Q9|PRP8\_HUMAN Pre-mRNA-processing-splicing factor 8 OS=Homo sapiens GN=PRPF8 PE=1  
SV=2

MAGVFPYRPGNPVPGPLAPLPDYMSEEKLQEKARKWQQLQAKRYAEKRKFGFVDAQKED  
MPPEHVRKIIIRDHGMTNRKFRHDKRVYLGALKYMPHAVLKLENMPMPWEQIRDVPVLY  
HITGAISFVNEIPWVIEPVYISQWGSWMIMMRREKRDRRHFKRMRFPFDDEEPPLDYAD  
NILDVEPLEAIIQELDPEEDAPVLDWFYDHQPLRDSRKVYNGSTYQRWQFTLPMSTLYR  
LANQLLTDLVDDNYFYFLDLKAFFTSKALNMAIPGGPKFEPLVRDINLQDEDWNEFNDIN  
KIIIRQPIRTEYKIAFPYLNNLPHHVHLTWYHTPNVVFIKTEDPDLPAFYFDPLINPIS  
HRHSVKSQEPLPDDDEEFELPEFVEPFLKDTPLYTDNTANGIALWAPRPFNLRSGRTRR  
ALDIPLVKNWYREHCPAGQPVKVRVSYQKLLKYVVLNALKHRPPKAQKKRYLFRSFKATK  
FFQSTKLDWVEVGLQVCRQGYNMLNLLIHRKNLNYLHLDYFNLPVKTLTTKERKKSRF  
GNAFHLCREVLRRLTKLVVDHSVYQYRLGNVDAFQLADGLQYIFAHVGQLTGMRYRYKLMR  
QIRMCKDLKHLIYYRFNTGPVGKPGCGFWAAGWRVWLFMRGITPLLERWLGNLLARQF  
EGRHSGVAKTVTKQRVESHFDELELRAAVMHDILDMMPEGIKQNKARTILQHLSEAWRCW  
KANIPWKVPGLPTPIENMILRYVKAADWWTNTAHYNRERIRRGATVDKTVCKNLGRLT  
RLYLKAEQERQHNYLKDGPYITAEAEAVAVYTTTVHWLESRRFSPIPFPPLSYKHDTKLLI  
LALERLKEAYSVKSRLNQSQREELGLIEQAYDNPHEALSRIKRHLLTQRAFKEVGIEFMD  
LYSHLPVPYDVEPLEKITDAYLDQYLWYADKRRLFPPWIKPADTEPPPLLVKWCQGIN  
NLQDVWETSEGECCNVMLSESRFEKMYEKIDLTLNRLRLIVDHNIADYMTAKNNVINYK  
DMNHTNSYGIIRGLQFASFIVQYVGLVMDLLVLGLHRASEMAGPPQMPNDFLSFQDIATE  
AAHPIRLFCRYIDRIHIFRFTADEARDLIQRYLTEHPDPNNENIVGYNKKCWPRDARM  
RLMKHDVNLGRAVFDIKNRLPRSVTTVQWENSFVSVYSKDNPNLLFNMCGFECRILPKC  
RTSYEEFTHKDGWNLQNEVTKERTAQCFLRVDDESMRFHNRVRQILMASGSTTFTKIV  
NKWNTALIGLMTYFREAVVNTQELDLLVKCENKIQTRIKIGLNSKMPSRFPPVVFYTPK  
ELGGLGMLSMGHVLIQPSDLRWSKQTDVGITHFRSGMSHEEDQLIPNLYRYIQPWESEFI  
DSQRVWAEYALKRQEAIQNRRLTLEDLEDSDWRGIPRINTLFQKDRHTLAYDKGWRVRT  
DFKQYQVLKQNPFWWTHQRHDGKLWNLNNYRTDMIQALGGVEGILEHTLFKGTYFPTWEG  
LFEKASGFEE SMKWKLTNAQSRGLNQIPNRRFTLWWSPTINRANVYVGFQVQLDLTGI  
FMHGKIPTLKISLIQIFRAHLWQKIHESI VMDLCQVFDQELDALEIETVQKETIHPKSY  
KMNSSCADILLFASYKWNVSRPSLLADSKDVMSTTTQKYWIDIQLRWGDYDSHDIERYA  
RAKFLDYTTDNMSIYPSPTGVLIAIDLAYNLHSAYGNWFPGSKPLIQQAMAKIMKANPAL  
YVLRERIRKGLQLYSSEPTPEYLSSQNYGELFSNQIIWFVDDTNVYRVTIHKTFEGNLTT  
KPINGAIFIFNPRTGQLFLKIIHTSVWAGQKRLGQLAKWKTAEEVAALIRSLPVEEQPKQ  
IIIVTRKGMLDPLEVHLLDFPNIVIKGSELQLPFQACLKVEKFGDLILKATEPQMVLFNLY  
DDWLKTISSYTAFSRLILILRALHVNNDRAKVIKPKDKTTITEPHHIWPTLTDEEWIKVE  
VQLKDLILADYGKKNVNVASLTQSEIRDIILGMEISAPSQQRQIAEIEKQTKEQSQT  
ATQTRTVNKHGDEIITSTTSNYETQTFSSKTEWRVRAISAANLHLRTNHIYVSSDDIKET  
GYTYILPKNVLKKFICISDLRAQIAGYLYGVSPDPNPQVKEIRCIVMPQWGTHTVHLP  
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GSCTLTAYKLTPSGYEWGRQNTDKGNPKGYLPSHYERVQMLLSDRFLGFFMVPAQSSWN  
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>sp|B1ATL7|PRR32\_HUMAN Proline-rich protein 32 OS=Homo sapiens GN=PRR32 PE=4 SV=1

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VLTDLDSKQLEWPSERTGSCIPLHSLRAHRHPYGPPIPAVAEESLATAEVNSSDALAGWRQ  
EGQDAINVSWEVSGGPPALIVGGTKVNNGGTERGSNNARLHVALPQKGFFPPRGPQVRG  
PSHIPTLRSGIVMEVPPGNTRIACRGKLAHVSFPLRGPCHPMHNWPRPIPLSSSTPGLPS  
CSTVHCFIPPRPIFNPFLTMPLPFAPPIFGPPLPSYFAHFHSGGMPAPASPNREHS

>sp|Q5FWE3|PRRT3\_HUMAN Proline-rich transmembrane protein 3 OS=Homo sapiens GN=PRRT3 PE=1  
SV=3

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FPENPRADSHRNSDVRHAPAEEMPEKPVASPLGPALYGPKAAQGAQRERLPVTDDLQMAQ  
GPSSHGWTGPLDSQELLQQEAVAPHPVGHPLTFIPTTPRRQLRVATVPPSLQHEGQEGQ  
WPPRDEGLKAKTKSRVPPTSPSDHQGPHTLVSHSGTVKRPVLEGQGGFEEHLQEAAGQP  
HFTQQDPAAPDVGSVPPVEVVYSQEPGAQPDALARSLLPAEELPVETPKRAGAEVSWEV  
SSPGPPPKQADLPDAKDSGPGPQTDPPASEAPDRPSKPERAAMNGADPISPQVRGAVEA  
PGTPKSLIPGSPDGPVAVNRTESPMGALQPDEAEWGPGRQSHPPAPPVQAPSTSRRLI  
RVTTQRALGQPPPEPTASSMASAPASSPPANATAPPLRWGPLRRVLSFSWELHVGVG  
LFLLPALLALAALAAPAGPRLALVA AVLVLVASALRSAYMLTDPYGSQARLGVRGGLVL  
YNLPFPLLLTALAALTLLGLGAGLPPLQNPLLLGAVALVHVGGLLATDLLSTWSVLNLL  
TQGLSCAWGAVALGTCLCRRRLDGPGRWDASPGPRLAVAGALGLLASGLQLAAALW  
LYPGPGRVGRFSWAWGVHFWLRLELTWALALALA AVAAARPRPTEHACWAKLMRLAC  
PAPSGKSEVPERPNNCYAGPSNVGAGSLDISKSLIRNPAESGQLATPSSGAWGSAASLGR  
GPQGGPGLSRNGVPAPSLSEDLRPPSPINLSRSIDAALFREHLVRDSVFQRCGLRGLA  
SPPPGGALRPRRGSHPKAELDDAGSSLLRGRCRSLSDVRVRGPVPQHVEAPDGA AAAAS  
GSSLDSFSRGLKISWNPWRHGLSSVDSLPLDELPSTVQLLPAPTAPDSTAARQGDGQG  
EVQPRGKPGESRSASSDTIEL

>sp|Q86WR7|PRSR2\_HUMAN Proline and serine-rich protein 2 OS=Homo sapiens GN=PROSER2 PE=1  
SV=2

MPVTHRKSADSMNSDTSPSCRLRAFSRGGSLERSSSSRSRSTLDDSLKYLTHEEKD  
VLLFFEETIDSLDEDFEEPVLCDGGVCCCLCSPSLEESTSSPSEPEDVIDLVQPAPGAGEA  
EGLPEGTQAAGPAPAGKEHRKQDAETPPPPDPPAPETLLAPPPLPSTPDPPRRELAPSP  
PVEHPRLRSVPTPLVMAQKISERMAGNEALSPTSPFREGRPGEWRTPAARGPRSGDPGP  
GPSHPAQPKAPRFPNSNIIVTNGAAREPRRTLSRAAVSVQERRAQVLATIHGHAGAFPAAG  
DAGEGAPGGGSSPERVARGRGLPGAESLRAGGQAPRGPALANGFPSAHEALKSAPSSFA  
PAGKSLCFRPGPALPSTRARQSFPGPRQPNGAQDWRRADSLPRPQGITVQFAGRGSSSEA  
RREALRKLGLLRESS

>sp|Q9UIG5|PS1C1\_HUMAN Psoriasis susceptibility 1 candidate gene 1 protein OS=Homo sapiens  
GN=PSORS1C1 PE=2 SV=2

MTCTDQKSHSQRALGTQTPALQGQQLNTDPSSEETRPPHVNPDRLCHEPANHFHAGD  
LQAMISKEFHAAATQDDCRKGRQEDILVPSSHPELFASVLPMAPEEAARLQQPQLPPP  
SGIHLSASRTLAPTLTYSSPPSHSPFGLSLI

>sp|A5LHX3|PSB11\_HUMAN Proteasome subunit beta type-11 OS=Homo sapiens GN=PSMB11 PE=2  
SV=1

MALQDVCKWQSPDTQGSPPHLPRAGGWAVPRGCDPQTFLQIHGPRLAHGTTTLAFRFRHG  
VIAAADTRSSCGSYVACPASCKVIPVHQHLLGTTSGTSADCATWYRVLQRELRLRELREG

QLPSVASAAKLLSAMMSQYRGLDLCVATALCGWDRSGPELFYVYSDGTRLQGDIFSVGSG  
SPYAYGVLDRGYRYDMSTQEAYALARCAVAHATHRDAYSGGSVDLFHVRESGWEHVSRS  
ACVLYVELQKLEPEPEEDASHAHPATAHRAAEDRELSVGPGEVTPGDSRMPAGTETV

>sp|Q8TEM1|PO210\_HUMAN Nuclear pore membrane glycoprotein 210 OS=Homo sapiens GN=NUP210  
PE=1 SV=3

MAARGRGLLLTLSVLLAAGPSAAAAKLNIPKVLLPFTRATRVNFTLEASEGCYRWLSTR  
PEVASIEPLGLDEQCSQKAVVQARLTQPARLTSIIFAEDITTGQVLRCDAIVDLIHDIQ  
IVSTTRELYLEDSPLELKIQALDSEGNTFSTLAGLVFEWTIVKDSEADRFSDSHNALRIL  
TFLESTYIPPSYISEMEKAAKQGDITLVSGMKTGSSKLKARIQEAVYKNVRPAEVRLLIL  
ENILLNPAYDVYLMVGTSIHYKVQKIRQGKITELSMPSDQYELQLQNSIPGPEGDPARPV  
AVLAQDTSMVTALQLGQSSLVLGHRSI RMQGASRLPNSTIYVVEPGYLGFTVHPGDRWVL  
ETGRLYEITIEVDFKFSNKVYVSDNIRIETVLPAEFFEVLSSSQNGSYHRIRALKRGQTA  
IDAALTSVVDQDGGVHILQVPVWNQQEVEIHIPITLYPSILTFPWQPKTGAYQYTI RAHG  
GSGNFSWSSSSHLVATVTVKGVMTGSDIGFSVIQAHDVQNPLHFGEMKVYVIEPHSMEF  
APCQVEARVGQALEPLRISGLMPGGASEVVTLSDCSHFDLAVEVENQGVFQPLPGRLP  
GSEHCSGIRVKAEAQGSTTLLVSYRHGHVHLSAKITIAAYLPLKAVDPSSVALVTLGSSK  
EMLFEGGPRPWILEPSKFFQNVTAEDTDSIGLALFAPHSSRNYQQHWILVTCQALGEQVI  
ALSVGKNKPSLTNPFPAVEPAVVKFVCAPPSRLTLAPVYTSPQLDMSCPLLQQNKQVVPVS  
SHRNPRDLAAYDQEGRRFDNFSSLSIQWESTRPVLASIEPELPMQLVSQDDESGQKKLH  
GLQAILVHEASGTTAITATATGYQESHLSSARTKQPHDPLVPLSASIELILVEDVRVSPE  
EVTIYNHPGIIQAELRIREGSGYFFLNTSTADVVKVAYQEARGVAMVHPLLPGSSTIMIHD  
LCLVFPAPAKAVVYVSDIQELYIRVVDKVEIGKTVKAYVRVLDLHKKPFLAKYFPFMDLK  
LRAASPIITLVALDEALDNYTITFLIRGVAIGQTSLTASVTNKAGQRINSAPQQIEVFPP  
FRLMPRKVTLLIGATMQVTSEGGPQPQSNILFISISNESVALVSAAGLVQGLAIGNGTVSG  
LVQAVDAETGKVVIISQDLVQVEVLLLRVIRAPIMRMRTGTQMPIYVTGITNHQNPFS  
FGNAVPGLTFFHWSVTKRDVLDLRGRHHEASIRLPSQYNFAMNVLGRVKGRGTGLRVVVKAV  
DPTSGQLYGLARELSDEIQVQVFQKLQLLNPEIEAEQILMSPNSYIKLQTNRDGAASLSY  
RVLDGPEKVPVVHVDEKGFLASGSMIGTSTIEVIAQEPFGANQTIIVAVKVSPVSYLRVS  
MSPVLHTQNKALVAVPLGMTVFTVHFHDNSGDVFHAHSSVLNFATNRDDFVQIGKGPT  
NNTCVVRTVSVGLTLLRVWDAEHPLSDFMPLPVLQAISPELSGAMVVDVLCATVLT  
LEGLSGTWSSANSILHIDPKTGAVARAVGSVTVYYEVAGHLRTYKEVVSVQPRIMAR  
HLHPIQTSFQEATASKVIVAVGDRSSNLRGECTPTQREVIQALHPETLISCQSQFKPAVF  
DFPSQDVFTVEPQFDALGQYFCSITMHLTDKQRKHLMSKKTALVVSASLSSSHFSTEQ  
VGAEVFPSPGLFADQAEILLSNHYTSSEIRVFGAPEVLENLEVKSGSPAVLAFAKEKSFG  
WPSFITYTVGVLDPAAGSQGPLSTLTFSSPVTNQAIAIPVTVAFFVDRRGPGPYGASLF  
QHFLDSYQVMFFTLFALLAGTAVMIIAYHTVCTPRDLAVPAALTTPRASPGHSPHYFAASS  
PTSPNALPPARKASPPSGLWSPAYASH

>sp|Q9WJR5|POK19\_HUMAN Endogenous retrovirus group K member 19 Pol protein OS=Homo sapiens  
GN=ERVK-19 PE=2 SV=2

NKSKRRNRVSVFLGAATVEPPKPIPLTWKTEKPVVWNQWPLPKQKLEALHLLANEQLEKG  
HIEPSFSPWNSPVFVIQKKSQKWRMLTDLRAVNAVNAV IQPMGPLQGPLSLAMIPKDWP  
LIIIDLKDCFFTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVG  
RALQPVREKFSDCYIIHYIDDLCAAEMKDKLIDCYTFLQAEVANAGLAIASDKIQTSTP  
FHYLEMQIENRKIKPPKIEIRKDTLKLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILR



GSDSLNSKRMLTPEATKEIKLVEEKIQAQINRIDPLAPLQLLIFATAHSPTGIIIQNTD  
LVEWSFLPHSTVKFTLYLDQMATLIGQTRLRIIKLCGNPDKIVVPLTKEQVRQAFINS  
GAWQIGLANFVGIIIDNHYPKTKIFQFLKMTTWILPKITRREPLENALTFTDGSNGKAA  
YTGPKERVIKTQYQSAQRAELVAVITVLQDFDQPINIISDSAYVVQATRDVETALIKYSM  
DDQLNQLFNLLQQTVRKRNFPPYITHIRAHTNLPGLTKANEQADLLVSSALIKAEQELHA  
LTHVNVAGLKNKFDVTWKQAKDIVQHCTQCQVLHLPTQEAGVNPRGLCPNALWQMDVTHV  
SSFGRLSYIHVTVDITYSHFIWATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCS  
KAFQKFLSQWKISHTTGIPYNSQQAIVERTNRTLKTQLVKQKEGDSKECTTPQMQLNL  
ALYTLNFLNIYRNQTTTSAEQHLTGKKNPHEGKLIWWKDNKNKTWEIGKVITWGRGFAC  
VSPGENQLPVWIPTRHLLKFYNEPIGDAKKSTSAETETPQSSTVDSQDEQNGDVRRTDEVA  
IHQESRAADLGTTEADAVSYKISREHKGDTNPREYAACGLDDCINGGKSPYACRSSCS

>sp|Q9Y6A1|POMT1\_HUMAN Protein O-mannosyl-transferase 1 OS=Homo sapiens GN=POMT1 PE=1  
SV=3

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LDDSGPPFGHMLVALGGYLGFGDNFLWNRIGAEYSSNPVWSLRLLPALAGALSVP  
MAYQIVLELHFSHCAAMGAALLMLIENALITQSRLMLLESVLIFFNLLAVLSYLKFFNCQKHS  
PFSLSWFWLTLTGACSCAVGIKYMGVFTYVVLVGVAAVHAWHLLGDQTLNMGADVQC  
CMRPACMGQMMSQGVCFCHLLARAVALLVIPVLYLLFFYVHLILVFRSGPHDQIMSS  
AFQASLEGGLARITQGQPLEVAFGSQVTLRNVFGKPVPCWLHSHQDTYPMIYENGRGSSH  
QQQVTCYPFKDVNNWWIVKDPRRHQLVSSPPRPVRHGMVQLVHGMMTRSLNTHDVAAP  
LSPHSQEVSCYIDYNSMPAQNLWRLEIVNRGSDTDVWKTILSEVRFVHVNTSAVLKLSG  
AHLPDWGYRQLEIVGEKLSRGYHGSTVWNVEEHRYGASQEQRERERELHSPAQVDVSRNL  
SFMARFSELQWRMLALRSDSEHKYSSSPLEWVTLDTNIAYWLPRTSAQIHLLGNIVIW  
VSGSLALAIYALLSLWYLLRRRRNVHDLPPQDAWLRLVLAGALCAGGWA VNYLPFFLMEKT  
LFLYHYLPALTFQILLPPVVLQHISDHLCRSGLQSRIFSALVVAWYSSACHVSNTLRPLT  
YGDKSLSPHELKALRWKDSWDILIRKH

>sp|Q9HBV1|POPD3\_HUMAN Popeye domain-containing protein 3 OS=Homo sapiens GN=POPDC3 PE=2  
SV=2

MERNSSLWKNLIDHPVCTTWKQEAEGAIYHLASILFVVGFMGGSGFFGLLYVFSLLGLG  
FLCSAVWAVDVCAADIFSWNFVLFVICFMQFVHIAVQVRSITFAREFQVLYSSLFQPLG  
ISLPVFRITIALSSEVVTLEKEHCYAMQGKTSIDKLSLLVSGRIRVTVDGEFLHYIFPLQF  
LDSPWDLSLRPTEEGIFQVTLTAETDCRYVSWRRKKLYLLFAQHRYISRLFSVLIGSDIA  
DKLYALNDRVYIGKRYHYDIRLPNFYQMSTPEIRRSPLTQHFQNSRRYCDK

>sp|Q9H237|PORCN\_HUMAN Protein-serine O-palmitoleoyltransferase porcupine OS=Homo sapiens  
GN=PORCN PE=1 SV=2

MATFSRQEFFQQLLQGCLLPTAQGLDQIWLLLAICLACRLWLRLGLPSYKHAHVAGG  
FFSLYHFFQLHMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILYLLMGEMHMDTVTW  
HKMRGAQMIVAMKAVSLGFDLDRGEVGTVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAV  
QGRPLSCRWLQKVARSLALALLCLVLSTCVGPYLFYFIPLNGDRLLRNKKRKARGTMVR  
WLRAYESAVSFHFSNYFVGFLSEATATLAGAGFTEEKDHLEWDLTVSKPLNVELPRSMVE  
VVTSWNLPMYWLNNYVFKNALRLGTFSAVLVTYAASALLHGFSFHAAVLLSLAFITYV  
EHVLRKRLARILSACVLSKRCPPDCSHQHRLGLGVRALNLLFGALAIHFHAYLGS�FDVD  
VDDTTEEQGYGMAYTVHKWSELSWASHWVTFGCWIFYRLIG

>sp|Q6S8J3|POTEE\_HUMAN POTE ankyrin domain family member E OS=Homo sapiens GN=POTEE PE=2 SV=3

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MGKWCHHCFPCCRGSGKSNVGASGDHDDSAMKTLRNKMGKWCHCFPCCRGSGKSKVGAW  
GDYDDSAFMEPRYHVRGEDLDKLHRAAWGKVPRKDLIVMLRDTDVNKKDKQKRTALHLA  
SANGNSEVVKLLLDLRRCLNVLNKKRTALIKAVQCQEDECALMLEHGTDPNIPDEYGN  
TTLHYAIYNEDKLMAKALLYGADIESKNKHGLTPLLGVHEKQKQVVKFLIKKANLNA  
LDRYGR TALILAVCCGSASIVSLLLEQNIDVSSQDL SGQTAREYAVSSHHVICQLLSY  
KEKQMLKISSSENSNPEQLKLTSEESQRFKGSENSQPEKMSQELEINKDGDREVEEEMK  
KHESNNVGLLENLTNGVTAGNGDGLIPQRKSRTPENQQFPDNESEEYHRICELLSYKE  
KQMPKYSENSNPEQDLKLTSEESQRLKSENGQPEKRSQEPEINKDGDRELENFMAIE  
EMKKHGSTHVGF PENLTNGATAGNGDGLIPPRKSRTPESSQFPDTENEYHSDEQNDTQ  
KQFCEEQNTGILHDEILIH EEKQIEVVEKMNSELSLCKKEKDV LHENSTLREEIAMLRL  
ELDTMKHQSQLREKKYLEDIESVKKKNDNLLKALQLNELTMDDDTAVLVIDNGSGMCKAG  
FAGDDAPRAVFPSIVGRPRQQGMMGMHQKESYVGKEAQSKRGILTLYPMEHGIITNWD  
DMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVP  
SLYTSGR TTGIVMDSGDGVTHTVPIYEGNALPHATLRLDLAGREL PDYLMKILTERGYRF  
TTMAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEA  
LFQPCFLGMESCGIHETT FNSIMKSDVDIRKDLYTNTVLSGGTTMYPGMAHRMQKEIAAL  
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>sp|Q6S5H5|POTEG\_HUMAN POTE ankyrin domain family member G OS=Homo sapiens GN=POTEG PE=2 SV=5

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MGKWCRHCFPWCRGSSKSNVGTSGDHDDSAMKTLRSKMGKWCHCFPCCRGSGKSKVGPW  
GDYDDSAFMEPRYHVRREDLDKLHRAAWGKVPRKDLIVMLKDTDMNKKDKQKRTALHLA  
SANGNSEVVKLLLDLRRCLNLDNKKRTALTKAVQCREDECALMLEHGTDPNIPDEYGN  
TALHYAIYNEDKLMAKALLYGADIESKNKHGLTPLLGVHEKQKQVVKFLIKKANLNA  
LDRYGR TALILAVCCGSASIVSLLLEQNIDVSSQDL SGQTAREYAVSSHHVICQLLSY  
KEKQMLKVSSSENSNPEQDLKLTSEESQRLKSENSQPEEMSQEPEINKGGDRKVEEEMK  
KHGSTMHGFPENLPNGATADNGDGLIPPRKSRTPESSQFPDTENEQYHSDEQNDTQKQL  
SEEQNTGILQDEILIH EEKQIEVAENEF

>sp|POCG38|POTEI\_HUMAN POTE ankyrin domain family member I OS=Homo sapiens GN=POTEI PE=3 SV=1

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MGKWCHHCFPCCRGSGKSNVGTSGDHDDSAMKTLRSKMGKWCHCFPCCRGSGKSNVGAW  
GDYDDSAFVEPRYHVRREDLDKLHRAAWGKVARKDLIVMLRDTDVNKQDKQKRTALHLA  
SANGNSGVV KLLLDLRRCLNVLNKKRTALTKAVQCQEDECALMLEHGTDPNIPDEYGN  
TTLHYAIYNEDKLMAKALLYGADIESKNKHGLTPLLGVHEKQKQVVKFLIKKANLNA  
LDRYGR TALILAVCCGSASIVSLLLEQNIDVSSQDL SGQTAREYAVSSHHVICQLLSY  
KEKQMLKISSSENSNPEQDLKLTSEESQRFKGSENSQPEKMSQEPEINKDGDREVEEEMK  
KHESNNVGLLENLSNGVTAGNGDGLIPQRKSRTPENQQFPDNESEEYHRICELVSDYKE  
KQMPKYSENSNPEQDLKLTSEESQRLKSENGQPEKRSQEPEINKDGDRELENFMAIE  
EMKKHGSTHVGF PENLTNGATAGNGDGLIPPRKSRTPESSQFPDTENEYHSDEQNDTQ  
KQFCEEQNTGILHDEILIH EEKQIEVVEKMNSELSLCKKEKDF LHENSTLREEIAMLRL

ELDTMKHQSQLRKKKYLEIESVKKKNDNLLKALQLNELTMDDDTAVLVIDNGSGMCKAG  
FAGDDAPRAVFPISIVGRPRQQGMMGGMHQKESYVGKEAQSKRGILTLKYPMEHGIITNWD  
DMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAML  
SLYTSGRRTGIVMDSGDGVTHTVPIYDGNALPHATLRDLAAGRELTDYLMKILTERGYRF  
TTMAEREIVRDIKEKLCYVALDFEQEMAMAASSSSLEKSYELPDGQVITIGNEWFRCP  
EALFQPCFLGMESCGIHETTFNSIMKSDVDIRKDLYTNTVLSGGTTMYPGMAHRMQKEIAAL  
APSMKIRIIAPPKRKYSVWVGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

>sp|Q9UHV8|PP13\_HUMAN Galactoside-binding soluble lectin 13 OS=Homo sapiens GN=LGALS13  
PE=1 SV=1

MSSLPVPYKLPVSLSVGSCV I IKGTP IHSFINDPQLQVDFYTDMEDESDIAFRFRVHFGN  
HVMNRRREFGIWMLEETDYVPFEDGKQFELCIYVHYNEYEIKVNGIRIYGFVHRIPPSF  
VKMVQVSRDISLTSVCVCN

>sp|Q96I34|PP16A\_HUMAN Protein phosphatase 1 regulatory subunit 16A OS=Homo sapiens  
GN=PPP1R16A PE=1 SV=1

MAEHLELLAEMPVMGRMSTQERLKHAQKRRQQVQMWAQAEKEAQGKKGPERPRKEAAS  
QGLLKQVLFPPSVVLEAAARNDEEVRQFLGSGVSPDLANEDGLTALHQCCIDDFREMV  
QQLEAGANINACDSECWTPLHAAATCGHLHLVELLIASGANLLAVNTDGNMPYDLCDDE  
QTLDCLETAMADRGITQDSIEAARAVPELRMLDDIRSRLQAGADLHAPLDHGATLLHVAA  
ANGFSEAAALLLEHRASLSAKDQDGWEPLHAAAYWGQVPLVELLVAHGADLNAKSLMDET  
PLDVCGDDEEVRAKLELKHKHDALLRAQSRQRSLLRRRTSSAGSRGKVRRVSLTQRDTL  
YRKQHAQEAIVWQQPPPTSPEPPEDNDDRQTGAELRPPPPPEEDNPEVVRPHNGRVGGSPV  
RHLYSKRLLDRSVSYQLSPLDSTPHTLVHDKAHTLADLKRQRAAKLQRPPEGPESPE  
TAEPGLPGDVTVPQDCGFRAGDPPLLKLTAPEAPVERRPCCLLM

>sp|Q96T49|PP16B\_HUMAN Protein phosphatase 1 regulatory inhibitor subunit 16B OS=Homo  
sapiens GN=PPP1R16B PE=1 SV=1

MASHVDLLTELQLEKVPTLERLRAAQKRRQQKQKWAQYEQDLQHRKRKHERKRSTGGR  
RKKVSFEASVALLEASLRNDAEEVRYFLKNKVSPDLCNEDGLTALHQCCIDNFEEIVKLL  
LSHGANNVNAKDNLWTPHAAATCGHINLVKILVQYGADLLAVNSDGNMPYDLCEDEPTL  
DVIETCMAYQGITQEKINEMRVAPEQQMIADIHCMIAAGQDLWDIDAQGATLLHIAGANG  
YLRAAELLLDHGVRVDVKDWDGWEPLHAAAFWGQMMAELLVSHGASLSARTSMDEMPID  
LCEEEEFKVLLELKHKHDVIMKSQLRHKSSLSRRTSSAGSRGKVRRASLSDRTNLYRK  
EYEGEAILWQRSAEDQRTSTYNGDIRETRTDQENKDPNPRLEKPVLLSEFPTKIPRGEL  
DMPVENGLRAPVSAYQYALANGDVWVHEVPDYSMAYGNPGVADATPPWSSYKEQSPQTL  
LELKRQRAAKLLSHPFSLTHLGSSMARTGESSEGGKAPLIGRTSPYSSNGTSVYYT  
VTSGDPPLLKFKAPIEEMEEKVHGCCRIS

>sp|Q6NUP7|PP4R4\_HUMAN Serine/threonine-protein phosphatase 4 regulatory subunit 4  
OS=Homo sapiens GN=PPP4R4 PE=1 SV=1

MHPPPPAAAMDFSQNSLFGYMEDLQELTIIERPVRRLKTPPEIERLTVDEDLSDIERAV  
YLLSAGQDVQGTSVIANLPFLMRQNPTETLRRVLPKVREALHVAGVEMQLTAAMSFLTIL  
QDESVSIIHAYTHSFLQVILLHLEHRDTGVSNAWLETLLSVIEVLPKETLRHEILNPLVSK  
AQLSQTQVQSRLVSCKILGKLTNKFDAHTIKREILPLVKSQCQDVEYEVRSRSCMRQLENIA  
QGIGTELTKSVLPELIELSRDEGSSVRLAAFETLVNLLDIFDTDDRSQTILPLVKSFC  
EKSFKADESILISLSFHLGKLCHGLYGIFTPDQHLRFLEFYKKLCTLGLQQENGHNENQIP  
PQILEQEKKYISVRKNCAYNFPAMIVFVDPKNFHMELYSTFFCLCHDPEVPVRYTIAICF

YEVSKLLNSGVYL IHKELITLLQDESLEVLDAIDHLPEILELMSTGGESSVQENKLSSL  
PDLIPALTAAEQRAAASLKWRTHEKLLQKYACLPHVISSDQIYYRFLQRMFTIMMTNNVL  
PVQKAASRTLCIFLRYNRKQEQRHEVIQKLEIQLGQGKSYWNRLRFLDTCEFIIEIFS  
FFCKYFFLPAIELTHDPVANVRMKLCYLLPKVKSTLKIPADKHLQQLMECVRKLLCQEK  
DKDVLAIVKRTVLELDRMEMSMDAFQKKFYEKDLLDQEKEREELLLLEMEQLEKEKQND  
GRPMSDKMFEKKRRDTKTPTQSLPKNIPISVPGPSSVTPSTSKEIKSKLIRSQSFNNQA  
FHAKYGNLEKCAKSSSTGYTTSVSLGKTSVLSLADDSFRTRNASSVPSSFSPNTPLPS  
TSRGTGNSVDPKSSGSKDTQPRKATLKSRSNP

>sp|Q9P1A2|PP4RL\_HUMAN Putative serine/threonine-protein phosphatase 4 regulatory subunit  
1-like OS=Homo sapiens GN=PPP4R1L PE=5 SV=3

MAEIPLYFVDLQDDLDYGFEDYGTDCDNMRVTAFLDIPGQDNLPLTRLEKYAFSENTF  
NRQIIARGLLDIFRDFGNNEEDFLTVMEIVVRLSEDAEPTVRTELMEQIPPIAIFLQENR  
SNFPVVLSEYLPIVVRYLTDPNQIICKMASMLSKSTVERLLLPRFCELCGDRKLFQVR  
KVCAANFGDICHAVGQEATEKFLIPKFFELCSDAVWGMKACAECFTAVSHSSSPGVRRT  
QLFPLFIRLVSDPCRWWHQAQSLGPFTSTFANPSRAGLYLREDGALS IWPLTQDLDSG  
FASGSPAPSSGGNTSPASLTRSAKPVRSPELPVEGTSAKTSDCPHSSSSSDGPAESPVE  
SCVSAGAETRVSPETSACSKLSMDNDLPISSYPGSDSWACPGNTEDVFSHFLYW

>sp|P05186|PPBT\_HUMAN Alkaline phosphatase, tissue-nonspecific isozyme OS=Homo sapiens  
GN=ALPL PE=1 SV=4

MISPFVLVAIGTCLNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGD  
GMGVSTVTAARILKGQLHHPGEEETRLMDKFFVALSKTYNTNAQVPDSAGTATAYLCG  
VKANEGTVGVSAATERSRCNTTQNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAH  
SADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIDVIMGGGRKMYMPKNKTDVEYESDE  
KARGTRLDGLDLVDTWKSFKPRYKSHFIWNRTELLTLDPHNVLYLLGLFEPGDMQYELN  
RNNVTDPSLSEMVVAIQILRNPKGFLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIG  
QAGSLTSSDITLVVTDHSHVFTFGGYTPRGNSIFGLAPMLSDDTKKPFITAILYNGPG  
YKVVGGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFSKGPMALLHGVHEQNYV  
PHVMAYAACIGANLGHCAPASSAGSLAAGPLLLALALYPLSVLF

>sp|Q9HAB8|PPCS\_HUMAN Phosphopantothenate--cysteine ligase OS=Homo sapiens GN=PPCS PE=1  
SV=2

MAEMDPVAEFPQPPGAARWAEVMARFAARLGAQGRRVVLVTSGGTVKPLEARPVRFLDNF  
SSGRRGATSAEFLAAGYGVFLYRARSAPFYAHRFPQTWLSALRPSGPALSGLLSLEA  
EENALPGFAEALRSYQEAAGTFLAVEFTTLADYLHLLQAAQALNPLGPSAMFYLAAA  
VSDFYVPVSEMPEHKIQSSGGLQITMKMVPKLLSPLVKDWAPKAFIISFKLETDP AIVI  
NRARKALEIYQHQQVVANILESRSQSFVIVTKDSETKLLLSEEEIEKGVEIEEKIVDNLQ  
SRHTAFIGDRN

>sp|Q9H3Y8|PPDPF\_HUMAN Pancreatic progenitor cell differentiation and proliferation  
factor OS=Homo sapiens GN=PPDPF PE=1 SV=1

MAAIPSSGSLVATHDYRRRLGSTSSNSSCSSTECPEAIPHPGLPKADPGHWWASFFF  
GKSTLPFMATVLESAEHSEPPQASSSMTACGLARDAPRKQPGQSSTASAGPPS

>sp|Q9UNP9|PPIE\_HUMAN Peptidyl-prolyl cis-trans isomerase E OS=Homo sapiens GN=PPIE PE=1  
SV=1

MATTKRVLYVGGLAEEVDDKVLHAAFIIPFGDITDIQIPLDYETEKHRGFVFEFELAEDA  
AAAIDNMNESELFGRITIRVNLAKPMRIKEGSSRPVWSDDDWLKKFSGKTLEENKEEEGSE

PPKAETQEGEPIAKKARSNPQVYMDIKIGNKPAGRIQMLLRSDVVPMTAENFRCLCTHEK  
GFGFKGSSFHRIIPQFMCQGGDFTNHNGTGGKSIYGKKFDDENFILKHTGPGLLSMANS  
PNTNGSQFFLTCDKTDWLDGKHVVFGEVTEGLDVLRLQIEAQGSKDGKPKQKVIIADCGEY  
V

>sp|P30405|PPIF\_HUMAN Peptidyl-prolyl cis-trans isomerase F, mitochondrial OS=Homo sapiens GN=PPIF PE=1 SV=1

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLG  
RVVLELKADVVPKTAENFRALCTGEKGFYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSI  
YGSRFPDENFTLKHVGPVLSMANAGPNTNGSQFFICTIKTDWLDGKHVVFVGHVKEGMDV  
VKKIESFGSKSGRTSKKIVITDCGQLS

>sp|Q9H2H8|PPIL3\_HUMAN Peptidyl-prolyl cis-trans isomerase-like 3 OS=Homo sapiens GN=PPIL3 PE=1 SV=1

MSVTLHTDVGDIKIEVFCERTPKTCENFLALCASNYNGCIFHRNIKGMVQTDPTGTG  
RGGNSIWGKKFEDEYSEYLKHNVRGVVSMANNGPNTNGSQFFITYGKQPHLDMKYTVFGK  
VIDGLETLDELEKLPVNEKTYRPLNDVHIKDITIHANPFAQ

>sp|Q6ZMI0|PPR21\_HUMAN Protein phosphatase 1 regulatory subunit 21 OS=Homo sapiens GN=PPP1R21 PE=1 SV=1

MASAEQGGKYQLAQEYSKLRAQNQVLKKGVVDEQANSAALKEQLKMKDQSLRKLQQEMD  
SLTFRNLQLAKRVELLQDELALSEPRGKKNKSGESSQLSQEQKSVFDEDLQKKIEENE  
RLHIQFFEADEQHKHVEAELSRLATLETEAAQHQAQVVDGLTRKYMETIEKLQNDKAKLE  
VKSQTLEKEAKECRLTEECQLQLKTLHEDLSGRLEESLSIINEKVPFNDTKYSQYNALN  
VPLHNRRHQLKMRDIAGQALAFVQDLVTALLNFHTYTEQRIQIFPVDSAIDTISPLNQKF  
SQYLHENASYVRPLEEGMLHLFESITEDTVTVLETTVKLKTSEHLTSYICFLRKILPYQ  
LKSLEEECESSLCTSA LRARNLELSQDMKMTAVFEKLQTYIALALPSTEPDGLLRNTY  
SSVLTNVGAALHGFHDVMKDISKHYSQAAIEHELPTATQKLITNDCILSSVVALTNGA  
GKIASFFSNLDYFIASLSYGPKAASGFISPLSAECMLQYKKKAAAYMKSLRKPLLESVP  
YEEALANRRILLSSTESREGLAQVQQSLEKISKLEQEKEHWMLEAQLAKIKLEKENQRI  
ADKLKNTGSAQLVGLAQENAAVSNTAGQDEATAKAVLEPIQSTSLIGTLTRTSDSEVPDV  
ESREDLIKNHMARIVELTSQQLADSKSVHFYAECRALSKRLALAEKSKEALTEEMKLA  
SQNISRLQDELTTTKRSYEDQLSMMSDHLCSMNETLSKQREEIDTLKMSSKGNSKKNKSR

>sp|Q86WC6|PPR27\_HUMAN Protein phosphatase 1 regulatory subunit 27 OS=Homo sapiens GN=PPP1R27 PE=1 SV=1

MPSRTARYARYSPRQRRRRMLADRSVRFPNDVFLDHIRQGDLEQVGRFIRTRKVS LATI  
HPSGLAALHEAVLSGNLECVKLLVKYGADIIHQDEAGWTPLHIACSDGYPDIIARYLISLG  
ADRDATNDGDLPDLIDPDYKELVELFKGTTMD

>sp|Q96LQ0|PPR36\_HUMAN Protein phosphatase 1 regulatory subunit 36 OS=Homo sapiens GN=PPP1R36 PE=1 SV=1

MYRVPEFYARRKRLGGQTPYLMQDLGLRLGMWYWKDETRTLEFRRFAAEDSVQWLLKHHP  
HFTPAAEVKEKGKKGKAVHFAETDGPASDRLTDKRLAAKDDKSAKAVEKRGQQGTITLDD  
VKFVTLTLLQDTEMQRICSF TTFMRNKNLDFLMALLYLSHYLEKNSLEKKPKSYMVGL  
VEKKEMELVLSELEAAQRYLAQKYCILVLGLAVPDKHHMCCGKEKISDTQKDWKFFESFY  
TFCTYVAWIVFRRQHLTEIEEEVGRLFRTNMFNIPRRRREDEESGGEKKRMTFVQFRRMM  
AKRPAIKKAINMRSPVMSTLLPSLREKAQNVFEKKYHQVDVRFPAEMQKHVGTLDSPMP  
VVGILGEPRCLFNPHTLHPLDPEENTKSFGRYPSLMENNNMRIQDTLDLVMKTLSSHTSC

PK

>sp|075864|PPR37\_HUMAN Protein phosphatase 1 regulatory subunit 37 OS=Homo sapiens  
GN=PPP1R37 PE=1 SV=4

MEIAPQEAPPVPGADGDIIEAPAEAGSPSPASPPADGRLKAAAKRVTFPSDEDIVSGAVE  
PKDPWRHAQNVTVDEVIGAYKQACQKLNCRQIPKLLRQLQEFTDLGHRLDCLDLKGEKLD  
YKTCEALEEVFKRLQFKVVDLEQTNLDEDGASALFDMIEYYESATHLNISFNKHIGTRGW  
QAAAHMMRKTSCLQYLDARNTPLLDHSAPFVARALRIRSSLAVLHLENASLSGRPLMLLA  
TALKMNMNRELKYLADNKLNLQDSAQGLNLLKFNCSLQILDLRNNHVLDGLAYICEGL  
KEQRKGLVTLVLWNNQLTHTGMAFLGMTLPHTQSLETNLGHNPIGNEGVRHLKNGLISN  
RSVLRLGLASTKLTCGAVAVAEFIAESPRLRLDLRENEIKTGGLMALSLALKVNHSL  
RLDLDPREPKKEAVKSFETQKALLAEIQNGCKRNLVLAREEEKEQPPQLSASMPETTAT  
EPQPDDEPAAGVQNGAPSPAPSPDSDSDSDGEEEEEEGERDETGPCALVPPTDSLGP  
GDRSPPGSPSTPTEQRISVSSPGRGHKVFVVTRVESPPERAEPASPTPPSPPPPSPPA  
SPSLPPAGAITDRDTSSEPQPPPEPPRSGPPLPNGLKPEFALALPPEPPPGEVKGKGC  
GLEHELSCSKNEKELEELLLEASQESQETL

>sp|Q7Z4L9|PPR42\_HUMAN Protein phosphatase 1 regulatory subunit 42 OS=Homo sapiens  
GN=PPP1R42 PE=2 SV=2

MVRLTDLIARNLNKPRKEETISQCLKKITHINFSDKNIDAIEDLSLCKNLSVLYLYDN  
CISQITNLNYATNLTHLYLQNNCISCINLRSLLKKLEKLYLGGNYIAVIEGLEGLGELRE  
LHVENQRLPLGEKLLFDPRTLHSLAKSLCILNISNNNIDDITDLELLENLNQLIAVDNQL  
LHVKDLEFLNKLMLWKIDLNGNPVCLKPKYRDRLILVSKSLEFLDGKEIKNIERQFLM  
NWKASKDAKKISKRRSSKNEDASNSLISNFKTMHHIVPVYYPQVGPKLAFFSEIQRYPV  
NANASPESEDYTKIEMGNLSLKQSESLTKNDVHEPHLFHNPEEKENLFFVENE

>sp|060828|PQBP1\_HUMAN Polyglutamine-binding protein 1 OS=Homo sapiens GN=PQBP1 PE=1 SV=1

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSC  
GLPYYNADTDLVSWLSPHDPNSVVTSAKKLRSSNADAEKLRSHDKSDRGHDKSDRS  
HEKLDRGHDKSDRGHDKSDRDRERGRYDKVDRERERDRERDRGRYDKADREEGKERRHHR  
REELAPYPKSKKAVSRKDEELDPMPSYSAPRGTWSTGLPKRNEAKTGADTTAAGPLF  
QQRYPYSPGAVLRANAASRTKQQD

>sp|Q5VT98|PRA20\_HUMAN PRAME family member 20 OS=Homo sapiens GN=PRAMEF20 PE=3 SV=2

MSIRTPPRLLELAGRSLLRDEALAISTLEELPTLFPPLFMEAFSRRHCEALKLMVQAWP  
FLRLPLGLMKRPCPETFQAVLDGLDALLTHRVLRRWKLQVLDLQDVSENFWMVWSEAM  
ARRCLPNAMNRPKPLQDCPRMRGQQPLTVFIDLCLKNRTLDEYFTCLFLWVKQREGLVHL  
CCKKLKMLGMLFHNIRNLIKTVNLDCIQEVEVNCNWTLPVLAFTPYLGQMRNLRLVLS  
DIDSRYSISPEQKKEFVTQFTTQFLKLRCLQKLYMNSVSFLEGHLDQMLSCLKTSLNILAI  
TNCVLLESCLKHLSKYPSIGQLKTLDSLGLRANFSLVPLQVLLKVAATLEYLDLDDCG  
IVDSQVNAILPALSRFELTTFSGRNPISATLENLLCHTIRLNNCLELYPAPRESYD  
VRGIVCRSRAQLGAELMGRVRLREPERILFCTDYCPQCGNRSLYDLEVDRC

>sp|Q96KF2|PRAC1\_HUMAN Small nuclear protein PRAC1 OS=Homo sapiens GN=PRAC1 PE=2 SV=1  
MLCAHFSQDQGAHLTTSKSAFLSNKKTSTLKHLLGETRSDGSACNSGISGGRGRKIP

>sp|095521|PRAM1\_HUMAN PRAME family member 1 OS=Homo sapiens GN=PRAMEF1 PE=2 SV=3

MSIQAPPRLLELAGQSLLRDQALSISAMEELPRVLYLPLFMEAFSRRHFQTLTMVQAWP  
FTCLPLGLMKTLLHETLKALLEGLHMLLTQKDRPRRWKLQVLDLRDVENFWARWPGAW  
ALSCFPETTSKRQTAEDCPRMGEHQPLKVFIDICLKEIPQDECLRYLFQWVYQRRGLVHL

CCSKLVNYLTPIKYLRKSLKIIYLNISIQELEIRNMSWPRLIRKLRCYLKEMKNLRKLVFS  
RCHHYTSDNELEGRVLAKFSSVFLRLEHLQLLKIKLITFFSGHLEQLIRCLQNPLENLEL  
TYGYLLEEDMKCLSQYPSLGYLKHLNLSYVLLFRISLEPLGALLEKIAASLKTLILEGCQ  
IHYSQLSAILPGLSRCSQLTTFYFGRNCMSIDALKDLLRHTSGLSKLSLETYPAPEESLN  
SLVRVNWEIFTPLRAELMCTLREVRQPKRIFIGPTPCPSCGSSPSEELEHLCC

>sp|Q9NQW5|PRDM7\_HUMAN Probable histone-lysine N-methyltransferase PRDM7 OS=Homo sapiens  
GN=PRDM7 PE=1 SV=2

MSPERSQEESEPGDTERTERKPMVKDAFKDISIYFTKEEWAEMGDWEKTRYRNVKMNYNA  
LITVGLRATRPAFMCHRRQAIKLQVDDTEDSDEEWTTPRQQVKPPWMAFRGEQSKHQKGM  
KASFNNESSLRELSGTPNLLNTSDSEQAQKPVSPPEASTSGQHSRLKLELRRKETEGKM  
YSLRERKGHAYKEISEPQDDDYLYCEMCQNFFIDSCAAHGPPTFVKDSAVDKGHPNRSAL  
SLPPGLRIGPSGIPQAGLGWNEASDLPLGLHFGPYEGRITEDEEAANSGYSWLITKGRN  
CYEYVDGDKSSANWMRYVNCARDDEEQNLVAFQYHRQIFYRTCRVIRPGCELLVWSGDE  
YGQELGIRSSIEPAESLGQAVNCWSGMGMSMARNWASSGAASGRKSSWQGENQSQRSIHV  
PHAVWPFQVKNFSVMWNAITPLRTSQDHLQENFSNQRIPAAQGIRIRSGNILIHAAMTK  
PKVKRSKKGPN

>sp|P30041|PRDX6\_HUMAN Peroxiredoxin-6 OS=Homo sapiens GN=PRDX6 PE=1 SV=3

MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHPDFTPVCTELGRAAKLAPE  
FAKRNVKLIASIDSVEDHLAWSKDINAYNCEEPTEKLPFPIIDDRNRELAILLGMLDPA  
EKDEKGMPTARVVFVFGPDKKLKLSILYPATTGRNFDEILRVVISLQLTAEKRVATPVD  
WKDGD SVMVLPTIPEEEAKKLPKGVFTKELPSGKKYLRYTPQP

>sp|Q96I23|PREY\_HUMAN Protein preY, mitochondrial OS=Homo sapiens GN=PYURF PE=1 SV=1

MLSGARCRLASALRGTRAPPSAVARRCLHASGSRPLADRGKKTEEPPRDFDPALLEFLVC  
PLSKKPLRYEASTNELINEELGIAYPIIDGIPNMIPQAARMTRQSKKQEEVEQR

>sp|043930|PRKY\_HUMAN Putative serine/threonine-protein kinase PRKY OS=Homo sapiens  
GN=PRKY PE=5 SV=1

MEAPGPAQAAAAESNSREVTEDAADWAPALCPSPEARSPEAPAYRLQDCDALVTMGTF  
GRVHLVKEKTAKHFFALKVMSIPDVIIRKQEQHVHNEKSVLKEVSHPFILRLFTWHEER  
FLYMLMEYVPGGELFSYLRNRGHFSSTTGLFYSAEIIICAIEYLHSKEIVYRDLKPENILL  
DRDGHIKLTDFGFAKKLVDRWTLCGTPEYLAPEVIQSKGHGRAVDWWALGILIFEMLSG  
FPPFFDDNPFGIYQKILAGKLYFPRHLDFHVKTGRMM

>sp|Q9BZG2|PPAT\_HUMAN Testicular acid phosphatase OS=Homo sapiens GN=ACPT PE=1 SV=1

MAGLGFWGHPAGPLLLLLLLVLPPRALPEGPLVFVALVFRHGDRAPLASYPMDPHKEVAS  
TLWPRGLGQLTTEGVRRQLELGRFLRSRYEAFLSPEYRREEVYIRSTDFDRTLESAQANL  
AGLFPEAAPGSPEARWRPIPVHTVPVAEDKLLRFPMRSCPRYHELLRETEAAEYQEAL  
GWTGFLSRLENFTGLSLVGEPLRRWVKVLDTLMCQQAHLPLPAWASPDVLRTLAQISAL  
DIGAHVGPPRAAEKAQLTGGILLNAILANFSRVQRLGLPLKMVMYSAHDSTLLALQGALG  
LYDGHTPPYAACLGFEFRKHLGNPAKDGGNVTVSLFYRNSAHLPLPLSLPGCPAPCPLG  
RFYQLTAPARPPAHGVSCHGPYEAIPAPVVPLLAVAVLVALSGLGLLAWRPGCLR  
ALGGPV

>sp|Q13427|PPIG\_HUMAN Peptidyl-prolyl cis-trans isomerase G OS=Homo sapiens GN=PPIG PE=1  
SV=2

MGIKVQRPRCFDIAINNQPAGRVVFELFSDVCPKTCENFRCLCTGEKGTGKSTQKPLHY  
KSCLFHRVVKDFMVQGGDFSEGNRGGESIYGGFFEDESFAVKHNKEFLLSMANRGKDTN

GSQFFITTKPTPHLDGHHVFGQVISGQEVVREIENQKTDAAASKPFAEVRILSCGELIPK  
SKVKKEEKKRHKSSSSSSSSSDSSSDSQSSSDSDSEATEEKSKKRKKKHKRKNRK  
HKKEKKKKRKSASSSESEAENLEAQPQSTVRPEEIPPIPENRFLMRKSPPKADEKERK  
NRERERERECPNPSQPASYQRRLLVTRSGRKIKGRGPRRYRTPSRSRSDRFRRSETPP  
HWRQEMQRAQRMVSSGERWIKGDKSELNEIKENQRSPVRVKERKITDHRNVSESPNRKN  
EKEKKVKDHKSNSKERDIRRNSEKDDKYKNKVKKRAKSKSRKSKEKSKSKERDSKHNRN  
EEKRMRSRSKGRDHENVKEKEKQSDSKGKDQERSRSKEKSKQLESKSNEHDHKSKEKDR  
RAQSRRECDITKGKHSYNSRTRERSRDRSRVRSRTHDRDRSRKEYHRYREQEYRR  
RGRSRSRERRTPPGRSRSKDRRRRRRDRSSEREESQSRNKDKYRNQESKSSHRKENSES  
EKRMYSKSRDHNSNNSREKKADRDQSPFSKIKQSSQDNELKSSMLKNKEDEKIRSSVEK  
ENQKSKGQENDHVHEKNKKFDHESSPGTDEDKSG

>sp|043447|PIIH\_HUMAN Peptidyl-prolyl cis-trans isomerase H OS=Homo sapiens GN=PIIH PE=1 SV=1

MAVANSSPVNPVFFDVSIGGQEVGRMKIELFADVVPKTAENFRQFCTGEFRKDGVPIGY  
KGSTFHRVIKDFMIQGGDFVNGDGTGVASIYRGPFADENFKLRHSAPGLLSMANS GPSTN  
GCQFFITCSKCDWLDGKHVFGKIIDGLLVMRKIENVPTGPNNKPKLPVVISQCGEM

>sp|Q8IXY8|PPIL6\_HUMAN Peptidyl-prolyl cis-trans isomerase-like 6 OS=Homo sapiens GN=PPIL6 PE=2 SV=1

MARPQCGPPHARCGSPSLPERPLQVKVGLFSCPNFQIAKSAENLKNHPSKFEDPIL  
VPLQEFQAWHQYLQEKRELKNETWEYSSSVISFVNGQFLGDALDLQWAHEVWDIVDIKP  
SALYDALTEDFSAKFLRDTKHDFVFLDICIDSSPIGRLIFELYCDVCPKTKCNFQVLCTG  
KAGFSQQRGIRLHYKNSIFHRIVQNGWIIQGGDIVYKGKDNGESIYGPTFEDENFSVPHNKR  
GVLGMANKGRHSNGSQFYITLQATPYLDRKFVAFGQLIEGTEVLKQLELVPTQNERPIHM  
CRITDSGDPIYA

>sp|Q5JR12|PPM1J\_HUMAN Protein phosphatase 1J OS=Homo sapiens GN=PPM1J PE=1 SV=1

MLNRRVRSVAHLVSSGGAPPPRPKSPDLNAAASAPAAPEAPRSPPAKAGSGSATPAKA  
VEARASFSRPTFLQLSPGGLRRADDHAGRAVQSPDPTGRRLPWSTGYAEVINAGKSRHNE  
DQACCEVVYVEGRRSVTGVPREPSRGQGLCFYYWGLFDGHAGGGAEMASRLLHRHIREQ  
LKDLVEILQDPSPPPLCLPTTPGTPDSSDPSHLLGPQSCWSSQKEVSHESLVVGAVENAF  
QLMDEQMARERRGHQVEGGCCALVVIYLLGKVYVANAGDSRAIIVRNGEIIIPMSREFTPE  
TERQLQLLGLFKPELLGSEFTHLEFPRRVLPKELGQRMLYRDQNMGTWAYKKIELEDLR  
FPLVCGEGKKARVMATIGVTRGLGDHSLKVCSSTLPIKPFLSCFPEVRVYDLTQYEHCPD  
DVLVLGTDGLWDVTTDCEVAATVDRVLSAYEPNDHSRYTALAQALVLGARGTPRDRGWRL  
PNNKLGSGDDISVFVIPLGGPGSYS

>sp|Q8N3J5|PPM1K\_HUMAN Protein phosphatase 1K, mitochondrial OS=Homo sapiens GN=PPM1K PE=1 SV=1

MSTAALITLVRSGGNQVRRRVLLSSRLLQDDRRVTPTCHSSTSEPRCSRFPDGGSGSPAT  
WDFGIWDNRIDEPIILLPSIKYGKPIPKISLENVGCASQIGKRKENEDRFDAQLTDEV  
LYFAVYDGHGGPAAADFCHTHMEKCIMDLLPKEKNLETLLTAFLEIDKAFSSHARLSAD  
ATLLTSGTTATVALLRDGIELVVASVGDSRAILCRKGKPMKLTIDHTPERKDEKERIKKC  
GGFVAWNSLGQPHVNGRLAMTRSIGDLDLKTSGVIAEPETKRIKLHHADDSFLVLTDDGI  
NFMVNSQEICDFVNQCHDPNEAAHAVTEQAIQYGTEDNSTAVVVPFGAWGKYKNSEINFS  
FSRSFASSGRWA



>sp|096001|PPR17\_HUMAN Protein phosphatase 1 regulatory subunit 17 OS=Homo sapiens  
GN=PPP1R17 PE=1 SV=2

MMSTEQMQPLELSEDRLDKLDPRCSHLDDLSDQFIKDCDLKKKPRKGKNVQATLNVESDQ  
KKPRRKDTPALHIPPFI PGVFSEHLIKRYDVQERHPKGKMIPVLHNTDLEQKKPRRKDTP  
ALHMSPF AAGVTLLRDERPKAIVEDDEKDGDKIAI

>sp|Q8NAV1|PR38A\_HUMAN Pre-mRNA-splicing factor 38A OS=Homo sapiens GN=PRPF38A PE=1 SV=1

MANRTVKDAHSIHGTNPQYLVEKIIIRTRIYESKYWKEECFGLTAE LVDKAMELRFVGGV  
YGGNIKPTPFLCLTLKMLQIQPEKDIIIEFIKNEDFKYVRMLGALYMRLTGTAIDCYKYL  
EPLYNDYRKIKSQNRNGEFELMHVDEFIDELLSERVCDIILPRLQKRYVLEEAQLEPR  
VSALEEDMDDVESSEEEEEDEKLERVPSPDHRRRSYRDLDPKRRSPTLRYRRSRSRSPR  
RRSRSPKRRSPSPRRERHRSKSPRRHRSRSDRRHRSRSKSPGHRSRHRSHSKSPERS  
KKSHKKSRRGNE

>sp|Q5VTL8|PR38B\_HUMAN Pre-mRNA-splicing factor 38B OS=Homo sapiens GN=PRPF38B PE=1 SV=1

MANNSPALTGNSQPQHAAAAAAQQQQCGGGGATKPAVSGKQGNVLP LWGNEKTMNLNP  
MILTNI LSSPYFKVQLYELKTYHEVVDEIYFKVTHVEPWEEKSRKTAGQTGMC GGVRGVG  
TGGIVSTAFCLLYKLFTLKLTRKQVMGLITHD SPYIRALGFMYIRYTQPPTDLWDFES  
FLDDEEDLDVKAGGGCVMTIGEMLSF LTKLEWFSTLFPRI PVPVQKNIDQQIKTRPRKI  
KKDGKEGAEIDRHVERRRSRSPRRSLSPRRSPRRSRSRSHHREGHGSSSF DRELEREKE  
RQRLEREAKEREKERRRSRSIDRGLERRRSRSRERHRSRSRSDRKGDRDRDREREKEN  
ERGRRRDRDYDKERGNEREKERERSRERSKEQSRSGEVEEKKHKEDKDRRHRDDKRD SK  
KEKKHSRSRSRERKHRSRSRSRNAGRSRSRSKEKSSKHKNESKEKSNKRSRSGSQGR TD  
SVEKSKKREHSPSKEKSRKRSRSKERSHKRDHSDSKDQSDKHDRRRSQSIEQESQEKQHK  
NKDETV

>sp|D3DTV9|PRAC2\_HUMAN Putative protein PRCA2 OS=Homo sapiens GN=PRAC2 PE=5 SV=1

MDRRRMALRPGSRRTAFFFH SRWLVPNLLAFFLGLSGAGPIHLMPWPNGRRHRVLDPH  
TQLSTHEAPGRWKPVAPRTMKACPQV LLEW

>sp|O60810|PRAM4\_HUMAN PRAME family member 4 OS=Homo sapiens GN=PRAMEF4 PE=2 SV=5

MKMSIWTPPRLLELAGRSLLRDQALAMSTLEELPTELFPPLFMEAFSRRRCEALKLMVQS  
WPFRRLLPLRLIKMPCLEAFQAVLDGLDALLNLGVRPRRWKLQVLDLQDVCENFWMVWSE  
AMAHGCFLNAKR NKKPVEDCPRMKGRQPLTVFVELWLKNRTLDEYLTCLLLWVKQRKDLL  
HLCKKLIKILGMPFRNIRSILKMVNLD C IQEVEVNCKWVLPILTQFTPYLGHMRLQKLI  
LSHMDVSRVVSPEQKKEIVTQFTTQFLKRLCLQKLYMNSVSFLEGHLDQLLSCLKTS LKF  
LTITNCV LLES DLKHL SQCP SISQLKTL DLSGIRLTNYSLVPLQILLEKVAATLEYLDLD  
DCGIIDSQVNAILPALSRFCFELNTFSFCGNPICMATLENLLSHTIILKNLCVELYPAPRE  
SYGADGTL CWSRFAQIRAE LMNRVRLRHPKRILFCTDYCPDCGNRSFYDLEADQYCC

>sp|Q5VWM4|PRAM8\_HUMAN PRAME family member 8 OS=Homo sapiens GN=PRAMEF8 PE=2 SV=2

MSIRAPPRLLELARQRLLRDQALAI STMEELPRELFPTLFMEAFSRRRCETLKT MVQAWP  
FTRLPLGLSMKSPHLESLSKVLEGV DVL LTQEVRPRQSKLQVLDLRNV DENFC DIFSGAT  
ASFPEALSQKQTADNCPGTGRQPFMVFI DLCLKNRTLDECLTHLLEWGKQRKGLLHVCC  
KELQVFGMPIHSIIIEVLNMVELDCIQEVEVCCPWELSTLVKFAPYLGQMRNL RKLVL FNI  
RASACIPPDNKGQFIARFTSQFLKLDYFQNL SMHSVSFLEGHLDQLLRCLQASLEMV VMT  
DCLLES DLKHL SWCPSIRQLKELDLRGVT LTHFSPEPLTGLLEQV VATLQTLDLEDCGI  
MDSQLSAILPVLSRCSQLSTFSFCGNLISMAAENLLRHTVGLSKLSLELYPAPLESYDT  
QGALCWGRFAELGAELMNTLRDLRQPKIIVFCTVPCPRC GIRASYDLEPSHCLC

>sp|Q9BXM0|PRAX\_HUMAN Periaxin OS=Homo sapiens GN=PRX PE=1 SV=2

MEARSRSAEELRRAELVEIIVETEAGTGVSGINVAGGGKEGIFVRELREDS PAARSLSLQ  
EGDQLLSARVFFENFKYEDALRLQLCAEPYKVSFCLKRTVPTGDLALRPGTVSGYEIKGP  
RAKVAKLNIQSLSPVKKKMVP GALGVPADLAPVDVEFSFPKFSRLRRGLKAEAVKGPVP  
AAPARRRLQLPRLRVREVAEEAQAARLAAAAPPRKAKVEAEVAAGARFTAPQVELVGPR  
LPGA EVGVPQVSAPKAAPSAEAAGGFALHLPTLGLGAPAPPAVEAPAVGIQVPQVELPAL  
PSLPTLPTLPCLETREGAVSVVPTLDVAAPTGVVDLALPGAEEVARGEAEVALKMPRL  
SFPRFGARAKEVAEAKVAKVSPEARVKGPRLRMPTFGLSLLEPRPAAPEVVESKCLKPTI  
KMPSLGIGVSGPEVKVPKGPEVKLPKAP EVKLPKVPEAALPEVRLPEVELPKVSEM KLPK  
VPMAVPEVRLPEVELPKVSEM KLPKVPEMAVPEVRLPEVQLLKVSEM KLPKVPEMAVPE  
VRLPEVQLPKVSEM KLPPEVSEAVPEVRLPEVQLPKVPEMKVP EMKLPKVPEMKLP EMKL  
PEVQLPKVPEMAVDPVHLPEVQLPKVPEMKLP EMKLPEVKLPKVPEMAVDPVHLPEVQLP  
KVPEMKLPKMPMAVPEVRLPEVQLPKVSEM KLPKVPEMAVDPVHLPEVQLPKVCEMKVP  
DMKLPEIKLPKVPEMAVDPVHLPEVQLPKVSEIRLPEMQVPKVPDVHLPKAPEVKLP RAP  
EVQLKATKAEQAEGMEFGFKMPKMTMPKLGRAESPSRGKPGEGA EVSGKLVTLPC LQPE  
VDGEAHVGVP SLTLP SVELDLP GALGLQGQVPAAKMGKGERVEGPEVAAGVREVGRVPS  
VEIVTPQLPAVEIEEGRLEMIETKVKPSKFS LPKFGLSGPKVAKAEAGRATKLVKS  
KFAISLPKARVGAEEAKGAGEAGLLPALDLSIPQLSLDAHLPSGKVEVAGADLKFKGPR  
FALPKFGVRGRDTEAAELVPGVAEELEGKGWGDGRVKMPK LKMP SFGLARGKEAEVQGDR  
ASPGEKAESTAVQLKIPEVELVT LGAQEEGRAEGAVAVSGMQLSGLKVSTAGQV VTEGHD  
AGLRMPPLGISLPQVELTGFEAGTPGQQAQSTVPSAEGTAGYRVQVPQVTLSPGAQVA  
GGELLVGEGVFKMPTVTVPQLELDVGLSREAQAGEAATGEGGLRLKLPTLGARAVGGEG  
AEEQPPGAERTFCLSLPDVELSPSGGNHAEYQVAEGEGEAGHKLVRLPRFGLVRAKEGA  
EEGEKAKSPKLR LPRVGFSGSEMVTGEGSPSEEEEEEEEEEGSGEGASGRRGRVRVRLPR  
VGLAAPSKASRGQEGDAAPKSPVREKSPKFRFPRVSLSPKARSGSGDQEEGGLRVRLPSV  
GFSETGAPGP ARMEGAQAAAV

>sp|Q8NCQ7|PRCA1\_HUMAN Protein PROCA1 OS=Homo sapiens GN=PROCA1 PE=2 SV=2

MWVRTTLTIERWTKEKTEPKARSWDESLSDVNRLPSW ERGHLLAGVASSTDVSTFSEGGD  
CKEPDKCCWRHKQCTGHI IYPFASDCVRHSLHLHSVNHCNCNSRLKDSSSEDSSSRGAGP  
TCSHVIESPCFELTPEEEHVERFRYGWCKSYRPVSVAVIHHPLYHECGADDLNEEEEEEE  
EESKPPIPTQVG PATASPD LGTSMATGTPDSTAPIT IWRSESPTGKGQGSKVIKKVKKKK  
EKEKDKEEMDEKAKLKKKAKKGQLTKKKSPVKLESPPDVSRLSARQLARMSSESPESR  
EELESEDSYNGRGQ GELSSDIVESSPRKRENTVQAKKTGAKPSQARKVNKRKSPPGSN  
PNLS

>sp|P78527|PRKDC\_HUMAN DNA-dependent protein kinase catalytic subunit OS=Homo sapiens  
GN=PRKDC PE=1 SV=3

MAGSGAGVRCSLLRLQETLSAADRCGAALAGHQLIRGLGQECVLSSSPAVLALQTSLVFS  
RDFGLLVFVRKSLNSIEFRECREEILKFLCIFLEKMGQKIAPYSVEIKNTCTSVYTKDRA  
AKCKIPALDLLIKLLQTFRSSRLMDEFKIGELFSKFY GELALKKKIPD TVLEK VYELLGL  
LGEVHPSEMINNAENLFRAFLGELKTQMTSAVREP KLPVLAGCLKGLSLLCNFTKSMEE  
DPQTSREIFNFVLKAIRPQIDLKRYAVPSAGLRLFALHASQFSTCLLDNYVSLFEVLLKW  
CAHTNVELKKAALSALSF LKQVSNMVAKNAEMHKNLQYFMEQFYGIIRNVDSNNKELS  
IAIRGYGLFAGPCKVINAKD VDFMYVELIQRCKQMFLTQTDTGDDR VYQMP SFLQSVASV  
LLYLDTVPEVYTPVLEHLVVMQIDSFPQYSPKMQLVCCRAIVKVFLALAAKGPVLRNCIS

TVVHQGLIRICSKPVVLPKGPESSESEDHASGEVRTGKWKVPTYKDYVDLFRHLLSSDQM  
MDSILADEAFFSVNSSSESLNHLLYDEFVKSVLKIVEKLDLTLEIQTVGEQENGDEAPGV  
WMIPTSDPAANLHPAKPKDFSALINLVEFCREILPEKQAEFFEPWVYSFSYELILQSTRL  
PLISGFYKLLSITVRNAKKIKYFEGVSPKSLKHSPEDPEKYSCFALFVKFGKEVAVKMKQ  
YKDELLASCLTFLLSLPHNIIELDVRAYVPALQMAFKLGLSYTPLAEVGLNALEEWSIYI  
DRHVMQPYKDILPCLDGYLKTSALSDETKNNWEVSALSRAAQKGFNKVVLKHLKKTKNL  
SSNEAISLEEIRIRVVQMLGSLGGQINKNLLTVTSSDEMMSYVAWDREKRLSFAVPFRE  
MKPVIFLDVFLPRVTELALTASDRQTKVAACELLHSMVMFMLGKATQMPEGGQGAPPMYQ  
LYKRTFPVLLRLACDQVTRQLYEPLVMQLIHWFTNNKKFESQDTVALLEAILDGIVDP  
VDSTLRDFCGRCIREFLKWSIKQITPQQQEKSPVNTKSLFKRLYSLALHPNAFKRLGASL  
AFNNIYREFREEESLVEQFVFEALVIYMESLALAHADEKSLGTIQCCDAIDHLCRIIEK  
KHVSLNKAKKRRLPRGFPPSASLCLLDLVKLLAHCGRPQTECRHKSIELFYKFVPLLPG  
NRSPNLWLKDVLEKEGVSFINTFEGGGCGQPSGILAQPTLLYLGRPFSLQATLCWLDLL  
LAAECYNTFIGERTVGALQVLGTEAQSSLLKAVAFFLESIAMHDIIAAEKCFGTGAAGN  
RTSPQEGERYNYSKCTVVVRIMEFTTTLLNTSPEGWKLKKDLCNTHLMRVLVQTLCEPA  
SIGFNIQDVQVMAHLPDVCVNLKALKMSPYKDILETHLREKITAQSIIEELCAVNLYGPD  
AQVDRSRLAAVVSACKQLHRAGLLHNILPSQSTDLHHSVGTIELLSLVYKGIAPGDERQCL  
PSLDLSCKQLASGLELAFAGGLCERLVSLLLNPAVLSTASLGSSQGSVIHFSHGEYFY  
SLFSETINTELLKNLDLAVLELMQSSVDNTKMVSAVLNGMLDQSFREANQKHQGLKLAT  
TILQHWKKCDSSWAKDSPLETKMAVLALLAKILQIDSSVSFNTSHGSFPEVFTTYISLLA  
DTKLDLHLKGQAVTLLPFFTSLTGGSLLELRRVLEQLIVAHFPMQSREFPPGTPRFNNYV  
DCMKKFLDALELSQSPMLLELMTEVLCREQQHVMEEFQSSFRRIARRGSCVTQVGLLES  
VYEMFRKDDPRLSFTRQSFVDRSLLTLLWHCSLDALREFSTIVDAIDVLKSRFTKLE  
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DAFTENMAGENQLLERRRLYHCAAYNCAISVICCVFNEKFYQGFLFSEKPEKNLLIFEN  
LIDLKRRYNFPVEVEVPMERKKKYIEIRKEAREAANGSDGPSYSSLSYLADSTLSEEM  
SQFDFSTGVQSYSYSSQDPRPATGRFRRREQRDPTVHDDVLEEMDELNRHECMAPLTAL  
VKHMHRSLGPPQGEEDSVPRDLPSWMKFLHGKLGNIPLNIRLFLAKLVINTEEVFRPY  
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KHVFHPKRAVFRHNLEIIKTLVECWKDCLSIPYRLIFEKFSGKDPNSKDNSVGIQLLGIV  
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VLCRVEGMTELYFQLKSKDFVQVMRHRDDERQKVCLDIIYKMMPKLPVELRELLNPVVE  
FVSHPSTTCREQMYNILMWIHDNYRDPESSETDNDSEIFKLAKDVLIIQGLIDENPGLQLI  
IRNFWSHETRLPSNTLDRLLALNSLYSPKIEVHFLSLATNFFLEMTSMSPDYPNPMFEHP  
LSECEFEQYETIDSDWRFRSTVLTMPFVETQASQGTQTRTQEGSLSARWPVAGQIRATQQ  
QHDFTLTQTADGRSSFDFWLTGSSTDPVLDHTSPSSDLSLFAHKRSERLQRAPLKSVGPDF  
GKKRLGLPGDEVDNKVKGAAAGRTDLLRLRRRFMRDQEKLSLMYARKGVAEQKREKEIKSE  
LKMKQDAQVVLRYSRHGDLPDIQIKHSSLITPLQAVAQRPDIIAKQLFSSLFSGILKEM  
DKFKTLSEKNITQKLLQDFNRFLNTTFSFPPFVSCIQDISCQHAALLSLDPAAVSAGC  
LASLQQPVGIRLLEEALLRLLPAELPAKRVRGKARLPDVLRWELAKLYRSIGEYDVL  
GIFTSEIGTKQITQSALLAEARSDYSEAAKQYDEALNKQDWVDGEPTAEKDFWELASLD  
CYNHLAEWKSLEYCSTASIDSENPPDLNKIWSEPFYQETYPYMIRSKLKLQGEADQS  
LLTFIDKAMHGELQKAILLEHYSQELSLLYLLQDDVDRAKYYIQNGIQSFMQNYSSIDVL

LHQSRLTKLQSVQALTEIQEFISFISKQGNLSSQVPLKRLNTWTNRYPDAMDPMNIWD  
DIITNRCFFLSKIEEKLTPLEDNSMNVDDQGDPSDRMEVQEQEEDISSLIRCKFSMKM  
KMIDSARKQNNFSLAMKLLKELHKESKTRDDWLVSQVSYCRLSHCRSRSQGCSEQVLT  
LKTVSLLDENNVSSYLSKNILAFRDQNILLGTTYRIIANALSSEPACLAIEEDKARRIL  
ELSGSSSEDESEKVIAGLYQRAFQHLSEAVQAAAAEAQPPSWSCGPAAGVIDAYMTLADFC  
DQQLRKEEENASVIDSAELQAYPALVVEKMLKALKLNSNEARLKFPRLQIIERYPEETL  
SLMTKEISSVPCWQFISWISHMVALLDKDQAVAVQHSVEEITDNYPQAIYVPFIISSESY  
SFKDTSTGHKNKEFVARIKSKLDQGGVIQDFINALDQLSNPELLFKDWSNDVRAELAKTP  
VNKNIEKMYERMYAALGDPKAPGLGAFRRKFIQTFGKEFDKHFKGKGSKLLRMKLSDFN  
DITNMLLLKMNKDSKPPGNLKECSPWMSDFKVEFLRNELEIPGQYDGRGKPLPEYHVRIA  
GFDERVTVMASLRPKRIIRGHDEREHPFLVKGGEDLRQDQVEQLFQVMNGILAQDSA  
CSQRALQLRTYSVVPMTSRLGLIEWLENTVTLKDLLNTMSQEEKAAYLSDPRAPPCEYK  
DWLTKMSGKHDVGAYMLMYKGANRTETVTSFRKRESKVPADLLKRAFRMSTSPAEFLAL  
RSHFASSHALICISHWILGIGDRHLNNFMVAMETGGVIGIDFGHAFGSATQFLPPELMP  
FRLTRQFINLMLPMKETGLMYSIMVHALRAFRSDPGLLTNTMDVFVKEPSFDWKNFEQKM  
LKKGGSWIQEINVAEKNWYPRQKICYAKRKLAPANPAVITCDELLLGHEKAPAFRDYVAV  
ARGSKDHNIRAQEPESGLSEETQVKCLMDQATDPNILGRTWEGWEPWM

>sp|Q9UKY0|PRND\_HUMAN Prion-like protein doppel OS=Homo sapiens GN=PRND PE=1 SV=2  
MRKHLSWWLATVCMLLFSLHAVQTRGIKHRIKWNRKALPSTAQITEAQVAENRPGAFI  
KQGRKLDIDFGAEGNRYEANYWQFPDGIHYNGCEANVTKEAFVTGCINATQAANQGEF  
QKPDNLKHQQVLWRLVQELCSLKHCEFWLERGAGLRVTMHQPVLCLLALIWLTVK

>sp|Q92786|PROX1\_HUMAN Prospero homeobox protein 1 OS=Homo sapiens GN=PROX1 PE=1 SV=2  
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HADGEKSNVLRKLLKRANSYEDAMMPFPGATIISQLLKNMNKNGGTEPSFQASGLSSTG  
SEVHQEDICSNSSRSDPPECLSPFGRPTMSQFDMRLCDEHLRAKRARVENIIRGMSSHSP  
SVALRGNENEREMAPQSVSPRESYRENKRKQKLQQQQQSFQQLVSARKEQKREERRQLK  
QQLEDQMQLRQLQEKFYQIYDSTSENDEDGNLSEDSMRSEILDARAQDSVGRSDNEMC  
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SQVVDTVVKVFSAPSRQVPQVFPLQIPQARFAVNGENHNFHTANQLQCFGDV IIPNP  
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AHPPSTAEGLSLSLIKSECDLQDMSEISPYSGSAMQEGLSPNHLKAKLMFFYTRYPS  
NMLKTYFSDVKFNRCITSQLIKWFSNREFYYIQMEKYARQAINDGVTSTEELSITRDCE  
LYRALNMHYNKANDFEVPERFLEVAQITLREFFNAIIAGKDVPDPSWKKAIYKVICKLDSE  
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>sp|Q92620|PRP16\_HUMAN Pre-mRNA-splicing factor ATP-dependent RNA helicase PRP16 OS=Homo sapiens GN=DHX38 PE=1 SV=2  
MGDTSEDASIHRLGTDLDLCQVGGLICKSKSAASEQHVFKAAPRPSLLGLDLLASLKRR  
EREEKDDGEDKKSKVSSYKDWEEKDDQDAEEEGDQAGQNIRKDRHYRSARVETPSH  
PGGVSEEFWERSRQREERREHGVYASSKEEKDWKKEKSRDRDYDRKDRDERDRSRHSS  
RSERDGGSERSSRRNEPESPRHRPKDAATPSRSTWEEEDSGYGSSRRSQWESPSTPSYR  
DSERSHRLSTRDRDRSVRGYSDDTPLPTPSYKYNWADRRHLGSTPRLSRGRGRREEG  
EEGISFDTEERQQWEDDQRQADRDWYMMDEGYDEFHNPLAYSSEYVRRREQHLHKQKQ  
KRISAQRRQINEDNERWETNRMLTSGVVHRLEVEDFEEDNAAKVHLMVHNLVPPFLDGR

IVFTKQPEPVIPVKDATSDLAIIARKGSQTVRKHREQKERKKAQHKHWELAGTKLGDIMG  
VKKEEPPDKAVTEDGKVDYRTEQKFADHMKRKSEASSEFAKKKSILEQRQYLPFAVQQE  
LLTIIRDNSIVIVVGETGSGKTTQLTQYLHEDGYTDYGMIGCTQPRRVAAMSVAKRVSEE  
MGGNLGEEVGYAIRFEDCTSENTLIKMYMTDGILLRESLREADLDHYSAIMDEAHERSLN  
TDVLFGLLREVVARSDKLIVTSATMDAEKFAAFFGNVPIFHIPGRTFPVDILFSKTPQ  
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QLPSDLQAKIFQKAPDGVRKCI VATNIAETSLTVDGIMFVIDSGYCKLKVFNPRI GMDAL  
QIYPI SQANANQRSGRAGRTGPGQCFRLYTQSAYKNELLTTVPEIQRTNLANVLLLS  
LGVQDLLQFHFMDPPPEDNMLNSMYQLWILGALDNTGGLTSTGRLMVEFPLDPALSKMLI  
VSCDMGCSSEILLIVSMLSVP AIFYRPKGREEESDQIREKFAVPESDHLTYLNVYLQWKN  
NNYSTIWCNDHF I HAKAMRKVREVRAQLKDIMVQQRMSLASCSTDWDIVRKCICAA YFHQ  
AAKLGIGEYVNIRTGMPCHLHTSSLFGMGYPDYIVYHELVMTTKEYMQCVTAVDGEW  
LAELGPMFYSVKQAGKSRQENRRRAKEEASAMEEEMALAEELRARRQE QEKRSPLGSVR  
STKIYTPGRKEQGEPMPTRRTPARFGL

>sp|A6NEY8|PRXD1\_HUMAN Putative prolyl-tRNA synthetase associated domain-containing  
protein 1 OS=Homo sapiens GN=PRORS1P PE=5 SV=3

MAGAE LGAALEQRLGALAIHTEVVEHPEVFTVEEMPHIQHLKGAHSKNLFLKDKKKKNY  
WLVTVLHDRQINLNELAKQLGVGSGNLRFADETAMLEKLVKGQGCATPLALFCDGGDVKF  
VLDSAFLEGGHEKVYFHPMTNAATMGLSPEDFLTFVKMTGHDPIILNFD

>sp|O14603|PRY\_HUMAN PTPN13-like protein, Y-linked OS=Homo sapiens GN=PRY PE=1 SV=2

MGATGLGFLLSWRQDNLNGTDCQGCNILYFSETTGSMCSELSLNRGLEARRKKDLKDSFL  
WRYKVGVCISLPLREMTAWINPPQISEIFQGYHQRVHGADALSLQTNLSRLSSQCLGQ  
SFLLRTLGRGRFALGDICGHVHEED

>sp|P25789|PSA4\_HUMAN Proteasome subunit alpha type-4 OS=Homo sapiens GN=PSMA4 PE=1 SV=1

MSRRYDSRTTIFSPEGRLYQVEYAMEAIGHAGTCLGILANDGVLLAAERRNIHKLLDEVF  
FSEKIYKL NEDMACSVAGITSDANVLTNELRLIAQRYLLQYQEPICEQLVTALCDIKQA  
YTQFGGKRPFVSLLYIGWDKHYGFQLYQSDPSGNYGGWKATCIGNNSAAAVSMLKQDYK  
EGEMTLKSALALAIKVLNKTMDVSKLSAEKVEIATLTRENGKTVIRVLKQKEVEQLIKKH  
EEEEAKAEREKKEKEQKEKDK

>sp|P28074|PSB5\_HUMAN Proteasome subunit beta type-5 OS=Homo sapiens GN=PSMB5 PE=1 SV=3

MALASVLERPLPVNQRFGLGGRADLLDLGPGSLSDGLSLAAPGWGPPEPGIEMLHGT  
TTLAFKFRHGVI AADSRTAGAYIASQTVKKVIEINPYLLGT MAGGAADCSFWERLLAR  
QCRIYELRNKERISVAAASKLLANMVYQYKGMGLSMGTMICGWDKRGPLYVVDSEGNRI  
SGATFSVSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYRDAYS GGAVNLYHVRE  
DGWIRVSSDNVADLHEKYSGSTP

>sp|Q99436|PSB7\_HUMAN Proteasome subunit beta type-7 OS=Homo sapiens GN=PSMB7 PE=1 SV=1

MAAVSVYAPPVGGFSFDNCRNAVLEADFAKRGYKLPKVRKTGTTIAGVVYKDGIVLGAD  
TRATEGMVVADKNCKSIHFISPNIYCCGAGTAADTDMTTLISSNLELHSLSTGRLPRVV  
TANRMLKQMLFRYQGYIGAALVLGGVDVTGPHLYSIYPHGSTDKLPYVTMGSGSLAAMAV  
FEDKFRPDMEEEEAKNLVSEAIAAGIFNDLGSGSNIDLCVISKNKLDFLRPYTPVNKKGT  
RLGRYRCEKGT TAVLTEKITPLEIEVLEETVQTMDTS

>sp|P28062|PSB8\_HUMAN Proteasome subunit beta type-8 OS=Homo sapiens GN=PSMB8 PE=1 SV=3

MALLDVCAPRGQRPESALPVAGSGRRSDPGHYSFSMRSP ELALPRGMQPTEFFQSLGGD  
GERNVQIEMAHGTTTLAFKFQHGVI AAVDSRASAGSYISALRVNKVIEINPYLLGTMSGC

AADCQYWERLLAKECRLYYLRNGERISVSAASKLLSNMMCQYRGMGLSMGSMICGWDKKG  
PGLYYVDEHGTRLSGNMFSTGSGNTYAYGVMDSGYRPNLSPEEAYDLGRRAIAYATHRDS  
YSGGVVNMVHMKEDGWVKVESTDVSDLLHQYREANQ

>sp|Q86SH4|PRNT\_HUMAN Putative testis-specific prion protein OS=Homo sapiens GN=PRNT PE=5  
SV=1

MQHSLVFFFAVILHLSHLLHLDASIHPFRLPFSSKPFLLIPMSNTTLPHTAWPLSFLHQT  
VSTLKAVAVTHSLWHLQIPVDCQACNRKSKKIYC

>sp|P58294|PROK1\_HUMAN Prokineticin-1 OS=Homo sapiens GN=PROK1 PE=1 SV=1

MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGEEC  
HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPDGRYRCSMDLKNINF

>sp|Q99935|PROL1\_HUMAN Opiorphin prepropeptide OS=Homo sapiens GN=OPRPN PE=1 SV=2

MKLTFFLGLLALISCFTPSESQRFSSRRPYLPGQLPPPPLYRPRWVPPSPPPPYDSRLNSP  
LSLPFVPGRVPPSSFSRFSQAVILSQLFPLESIRQPRLPFGYPNLHFPLRPYYVGPIRIL  
KPPFPPIPFFLAIYLPISNPEPQINITTADTTITTNPPTTATATTSTSTKPTMTISSSTV  
PISSTPEPATSISAATPAASTENTTQILANRPHTVLLNATVQVTTSNQTLSSPAFKSFW  
QKLFAIFG

>sp|Q8N271|PROM2\_HUMAN Prominin-2 OS=Homo sapiens GN=PROM2 PE=1 SV=1

MKHTLALLAPLLGLGLGLALSQLAAGATDCKFLGPAEHLTFPAARARWLAPVRAPGLL  
DSLYGTVRRFLSVVQLNPFPSSELVKALLNELASVKVNEVVRYEAGYVCAVIAGLYLLL  
PTAGLCFCCCRCHRRCGGRVKTEHKALACERAALMVFLLLTLLLLIGVVCAFTNQRT  
EQMGPSIEAMPETLLSLWGLVSDVPQELQAVAAQFSLPQEQVSEELDGVGVSIGSAIHTQ  
LRSSVYPLLAAGVSLGQVLQVSVHHLQTLNATVVELQAGQQDLEPAIREHRDRLELLQE  
ARCQGDCAGALSWARTLELGADFSQVPSVDHVLHQLKGVPEANFSSMVQEENSTFNALPA  
LAAMQTSSVVQELKKAVAQQPEGVRTLAEGFPGLEAASWAQALQEVEESSRPYLQEVQR  
YETYRWIVGCVLCSVVLFVVLGNLLGLNLGIWGLSARDDPSHPEAKGEAGARFLMAGVGL  
SFLFAAPLILLVFATFLVGGNVQTLVCQSWENGELFEFADTPGNLPPSMNLSQLLGLRKN  
ISIHQAYQQCKEGAALWTVLQLNDSYDLEEHLNINQYTNKLRQELQSLKVDTSQSLDLLSS  
AARRDLEALQSSGLQRIHYPDFLVQIQRPVVKTSMEQLAQELQGLAQDQNSVLGQRLQE  
EAQGLRNLHQEKVVPQQSLVAKLNLSVRALESSAPNLQLETSDVLANTYTLKGELPAWAA  
RILRNVSECFLAREMGYFSQYVAWVREEVTQRIATCPLSGALDNSRVILCDMMADPWNA  
FWFCLAWCTFFLIPSIIFAVKTSKYFRPIRKRLSSTSSEETQLFHIPRVTSKL

>sp|O75360|PROP1\_HUMAN Homeobox protein prophet of Pit-1 OS=Homo sapiens GN=PROP1 PE=1  
SV=2

MEAERRRQAEKPKKGRVGSNLLPERHPATGTPTTTVDSSAPPCRRPLGAGGGRSRFSPQG  
GQRGRPHSRRRHRTTFSPVQLEQLESAFGRNQYPDIWARESLARDTGLSEARIQVWFQNR  
RAKQRKQERSLLQPLAHLSPAAFSSFLPESTACPYSYAAPPPVTCFPHYSHALPSQPS  
TGGAFALSHQSEDWYPTLHPAPAGHLPCPPPPMLPLSLEPSKSWN

>sp|Q99633|PRP18\_HUMAN Pre-mRNA-splicing factor 18 OS=Homo sapiens GN=PRPF18 PE=1 SV=1

MDILKSEILRKRQLVEDRNLLVENKKYFKRSELAKEEEAYFERCGYKIQPKEDQKPLT  
SSNPVLELELAEEKLPMTLSRQEVIRRLRERGEPIRLFGETDYDAFQRLRKIEILTPENV  
KGLRNDLKAALDKIDQQYLNEIVGGQEPGEEDTQNDLKVHEENTTIEELEALGESLGKGD  
DHKMDMIIITKFLKFLGVWAKELNAREDYVKRSVQGLNSATQKQTESYLRPLFRKLKRK  
NLPADIKESITDIKFMQLGREYVKANDAYLQMAIGNAPWPIGVTMVGIIHARTGREKIFSK  
HVAHVLNDETQRKYIQGLKRLMTICQKHFPDPSKCEYNAL

>sp|Q8WWY3|PRP31\_HUMAN U4/U6 small nuclear ribonucleoprotein Prp31 OS=Homo sapiens  
GN=PRPF31 PE=1 SV=2

MSLADELLADLEEAEEEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTIAKLWDSKMF  
AEIMMKIEEYISKQAKASEVMGPVEAAPEYRVIVDANNLTVEIENELNI IHKFIRDKYSK  
RFPELES LVPNALDYIRTVKELGNSLDKCKNNENLQQILT NATIMVSVTASTTQGGQLS  
EEELERLEEACDMALELNASKHRIYEVESRMSFIAPNLSIIIGASTAAKIMGVAGGLTN  
LSKMPACNIMLLGAQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT  
LAARVDSFHSTEGKVGYELKDEIERKFDKWQEP PPVKQVKPLPAPLDGQRKKRGRRYR  
KMKERLGLTEIRKQANRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVRQTQVNEATKARI  
SKTLQRTLKQKSVVYGGKSTIRDRSSGTASSVAFTPLQGLEIVNPQAAEKKVAEANQKYF  
SSMAEFLKVKGEKSGLMST

>sp|Q13523|PRP4B\_HUMAN Serine/threonine-protein kinase PRP4 homolog OS=Homo sapiens  
GN=PRPF4B PE=1 SV=3

MAAAETQSLREQPEMEDANSEKSINEENGEVSEDQSQNKHSRHKKKKHKHRSKHKKKHKHS  
SEEDKDKKKHKHKHKHKHKRKEIIDASDKEGMSPAKRTKLDDLALLEDEKQRALIKAEL  
DNELMEGKVQSGMGLILQGYESGSEEEGEIHEKARNGNRSSTRSSSTKGKLELVDNKITT  
KKRSKRSRKERTRHRSDKKKSGGIEIVKEKTTRSKSKERKKSKSPSKRSKSDQARKSK  
SPTLRRRSQEKIGKARSPTDDKVKIEDKSKSKDRKKSPIINESRSRDRGKKSRSRSPVDLRG  
KSKDRRSRSKERKSKRSETDKEKKPIKSPSKDASSGKENRSPSRPGRSPKRRSLSPKPR  
DKSRRSRSPLLNDRRSKQSKSPSRTLSPGRRAKRSRLERKRREPERRRLSSPRTRPRDDI  
LSRRERSKDASPINRWSPTRRRSRSPIRRRSRSPRRRSRSPRRRDRGRRRSR  
LRRRSRSRGRRRRRSRSKVKEDKFKGSLSEGMKVEQESSDDNLEDFDVEEEDDEALIEQ  
RRIQRQAIVQKYKYLAEDSNMSPSEPSSPQSSTRTRSPSPDDILERVAADVKEYERENV  
DTFEASVKAKHNLMTVEQNGSSQKLLAPDMFTESDDMFAAYFDSARLRAAGIGKDFKE  
NPNLRDNWTDAGYYRVNIGEVLDKRYNVYGYTGQGVFSNVVRARDNARANQEVAVKIIIR  
NNELMQKTGLKELEFLKKLNDADPDDKFHCLRLFRHFYHKQHLCLVFEPLSMNLREVLKK  
YGKDVGLHIKAVRSYSQQFLALKLLKRCNIIHADIKPDNILVNESKITLKLCDFGSASH  
VADNDITPYLVSRFYRAPEIIIGKSYDYGIDMWSVGCTLYELYTGKILFPGKTNNHMLKL  
AMD LKGMPNKMIRKGVFKDQHFQNLNFMYIEVDKVTEREKVTVMSTINPTKDLLADLI  
GCQRLPEDQRKKVHQLKDLLDQILMLDPAKRISINQALQHAFIQEKI

>sp|043395|PRPF3\_HUMAN U4/U6 small nuclear ribonucleoprotein Prp3 OS=Homo sapiens  
GN=PRPF3 PE=1 SV=2

MALSKRELDELKPWIEKTVKRVLGFSEPTVVTAAALNCVGKGMDDKKKAADHLKPFLDDSTL  
RFVDKLF EAVEEGRSSRHSKSSSDRSRKRELKEVFGDDSEISKESGKRRRIPRFEEVE  
EEPEVIPGPSSESPGMLTKLQIKQMMEAATRQIEERKKQLSFISPTPQPKTPSSSQPER  
LPIGNTIQPSQAATFMNDAIEKARKAAELQARIQAQLALKPGLIGNANMVGLANLHAMGI  
APPKVELKDQTKPTPLILDEQGRTVDATGKEIELTHRMPTLKANIRAVKREQFKQQLKEK  
PSEDMESNTFFDPRVSIAPSQRQRRTFKFHDKGKFEKIAQRLRTKAQLEKLQAEISQAAR  
KTGIHTSTR LALIAPKKELKEGDIPEIEWWDSYIIPNGFDLTEENPKREDYFGITNLVEH  
PAQLNPPVDNDTPVTLG VYLTKKEQKKLRRQTRREAQKELQEKVRLGLMPPEPKVRISN  
LMRVLGTEAVQDPTKVEAHVRAQMAKRQKAHEEANAARKLTAEQRKVKKIKKLKEDISQG  
VHISVYRVNLSNPAKKFKIEANAGQLYLTGVVVLHKDVNVVVVEGGPKAQKKFKRLMLH  
RIKWDEQTSNTKGDDDEESDEEAVKKTNKCVLVWEGTAKDRSFGEMKFKQCPTENMAREH  
FKKHGAEHYWDLALSSESVLESTD

>sp|P11908|PRPS2\_HUMAN Ribose-phosphate pyrophosphokinase 2 OS=Homo sapiens GN=PRPS2 PE=1 SV=2

MPNIVLFSGSSHQDLSQRVADRLGLELGKVVTKKFSNQETSVEIGESVRGEDVYIIQSGC  
GEINDNLMELLIMINACKIASSSRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAG  
ADHIITMDLHASQIQGFFDIPVDNLYAEPVLQWIRENIAEWKNCIIIVSPDAGGAKRVTS  
IADRLNVEFALIHKERKKANEVDRMVLVGDKDRVAILVDDMADTCGTICHAADKLLSAG  
ATKVYAILTHGIFSGPAISRINNAAFEAVVVTNTIPQEDKMKHCTKIQVIDISMILAEAI  
RRTHNGESVSYLFSHVPL

>sp|Q6MZM9|PRR27\_HUMAN Proline-rich protein 27 OS=Homo sapiens GN=PRR27 PE=2 SV=1

MKLLLWACIVCVAFARKRRFPFIGEDDNDGHLHPSLNIPYGIRNLPPLYRPNVTVP  
SYPGNTYTDGLPSYPWILTSPGFYVYHIRGFPLATQLNVPPLPPRGFPVPPSRFFSA  
AAAPAAPPIAAEPAAAAPLTATPVAAEPAAGAPVAAEPAAEAPVGAEPAAEAPVAAEPAA  
EAPVGVEPAAEEPSAEPATAKPAAPEPHPSPSLEQANQ

>sp|P85299|PRR5\_HUMAN Proline-rich protein 5 OS=Homo sapiens GN=PRR5 PE=1 SV=1

MRTLRLKFMSSPSLSDLGKREPAADDERGTQRRACANATWNSIHNGVIAVFQRKGLP  
DQELFSLNEGVRQLLKTGSLFFTEYLNQQLLTGKMVILRDKIRFYEGQKLLDSLAETWD  
FFFSVDLPMLQAIIFYPVQGKEPSVRQLALLHFRNAITLSVKLEDALARAHARVPPAIVQM  
LLVLQGVHESRGVTEDYLRLETLVQKVVSPYLGTYGLHSSEGPFTHSCILEKRLLRRSRS  
GDVLAKNPVVRKSYNTPLLNPVQEHEAEGAAAGGTSIRRHSVSEMTSCPEPQGFSDPPG  
QGPTGTFRSSPAPHSGPCPSRLYPTTQPPEQGLDPTRSSLPSSPENLVDQILESVDSDS  
EGIFIDFGRGRGSGMSDLEGSGGRQSVV

>sp|Q96M27|PRRC1\_HUMAN Protein PRRC1 OS=Homo sapiens GN=PRRC1 PE=1 SV=1

MMEESGIETTPPGTPPPNPAGLAATAMSSTPVPLAATSSFSPPNVSSMESFPPLAYSTPQ  
PPLPPVRPSAPLPFVPPPAVPSVPLVTSMPPPVSPSTAAAFGNPPVSHFPPSTSAPNTL  
LPAPPSGPPISGFSVGSTYDITRGHAGRAPQTPLMPFSAPSGLTPTITQQASLTSL  
AQGTGTSAITFPEEQEDPRITRGQDEASAGGIWGFIKGVAGNPMKSVLDKTKHSVESM  
ITTLDPGMAPYIKSGGELDIVVTSNKEVKVAAVRDAFQEVFGLAVVGEAGQSNIAPQPV  
GYAAGLKGAQERIDSLRRTGVIHEKQTAVSVENFIAELLPDKWFDIGCLVVEDPVHGIHL  
ETFTQATPVPLEFVQQAQSLTPQDYNLRWSGLLVTVGEVLEKSLNVSRTDWHMAFTGMS  
RRQMIYSAARAIAGMYKQRLPPRTV

>sp|Q7Z6L0|PRRT2\_HUMAN Proline-rich transmembrane protein 2 OS=Homo sapiens GN=PRRT2 PE=1 SV=1

MAASSEISEMKGVEESPKVPGEGPGHSEAETGPPQVLAVPDQPEAPQPGPNTTAAPVD  
SGPKAGLAPETTETPAGASETAQATDLSLSPGGESKANCSPEPCQETVSKPEVSKEATA  
DQGSRLESAAPPEPAPEPAPQPDPRPDSQPTPKPALQPELPTQEDPTPEILSESVGEKQE  
NGAVVPLQAGDGEEGAPEPHSPPSKKSPANGAPPRVLQQLVEEDMRRAHSGHPGSPR  
GSLSRHPSSQLAGPGVEGEGTQKPRDYIIILAILSCFCPMWPVNIVAFAYAVMSRNSLQQ  
GDVDGAQRLGRVAKLLSIVALVGGVLIIIASCVINLGVYK

>sp|Q99811|PRRX2\_HUMAN Paired mesoderm homeobox protein 2 OS=Homo sapiens GN=PRRX2 PE=2 SV=2

MDSAAAAFALDKPALGPGPPPPPPALGPGDCAQARKNFSVSHLLDLEEVAAAGRLAARPG  
ARAEAREGAAREPSGSSGSEAAPQDGECPSPGRGSAAKRKKKQRRNRRTTFNSSQLQALE  
RVFERTHYPDFAFVREELARRVNLSEARVQVWFQNRRAKFRNRERAMLASRSASLLKSYSQ  
EAAIEQPVAPRPTALSPDYLSWTASSPYSTVPPYSPGSSGPATPGVNMANSIASLRLKAK



EFSLHHSQVPTVN

>sp|A8MTI9|PRS47\_HUMAN Putative serine protease 47 OS=Homo sapiens GN=PRSS47 PE=5 SV=2

MGYCQGVSVQAVVLLMFPKEKEAFLALAQLLTSTKNLPDVTGQLPMGPHSRASQVAPETT  
SSKVDGRGVSTVCGPKPVVGKIYGGRDAAAGQWPWQASLLYWGSHLCGAVLIDSCWLVTST  
HCFLNKSQAPKNYQVLLGNIQLYHQTQHTQKMSVHRIITHPDFEKLHPFGSDIAMLQLHL  
PMNFTSYIVPVCLPSRDMQLPSNVSCWITGWGMLTEDHKRGPVHTAVPSRLQAVCCSGCR  
GQRVGSRVGRFRSMIVHSEGQLRSLMPGDFHLGDSGGPLVCYLPSAWVLVGLASWGLDCR  
HPAYPSIFTRVTYFINWIDEIMRLTPLSDPALAPHTCSPPKPLRAAGLPGCAALVLPQT  
WLLPLTLRAPWQTL

>sp|P35998|PRS7\_HUMAN 26S protease regulatory subunit 7 OS=Homo sapiens GN=PSMC2 PE=1 SV=3

MPDYLGAQQRKTEDEKDDKPIRALDEGDIALLKTYGQSTYSRQIKQVEDDIQQLKKIN  
ELTGIKESDTGLAPPALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAK  
FVVDLSDQVAPTDIEEGMRVGVDRNKYQIHIPLPPKIDPTVTMMQVEEKPDVTYSDVGGC  
KEQIEKLREVETPLLHPERFVNLGIEPPKGVLFGPPGTGKTLCAVANRTDACFIRV  
IGSELVQKYVGEARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML  
ELINQLDGFDPGRNIKVLMATNRPDLTDPALMRPGRLDRKIEFSLPDLEGRTHIFKIHAR  
SMSVERDIRFELLARLCPNSTGAERSVCTEAGMFAIRARRKIAATEKDFLEAVNKVIKSY  
AKFSATPRYMTYN

>sp|P24158|PRTN3\_HUMAN Myeloblastin OS=Homo sapiens GN=PRTN3 PE=1 SV=3

MAHRPPSPALASVLLALLLSGAARAAEIVGGHEAQPHSRPYMASLQMRGNPGSHFCGGTL  
IHPSFVLTAACHLRDIPQRLVNVVLGAHNVRTQEPTQQHFSVAQVFLNNYDAENKLNVDL  
LIQLSSPANLSASVATVQLPQQDQVPVPHGTQCLAMGWGRVGAHDPPAQVLQELNVTVVT  
FCRPHNICTFVPRRKAGICFGDSGGPLICDGIQIGIDSFVIWGCATRLFPDFTRVALYV  
DWIRSTLRRVEAKGRP

>sp|Q86TP1|PRUNE\_HUMAN Protein prune homolog OS=Homo sapiens GN=PRUNE PE=1 SV=2

MEDYLQGCRAALQESRPLHVVLGNEACDLSTVSALALAFYLAKTTEAEVFPVLNIKR  
SELPLRGDIVFFLQKVHIPESILIFRDEIDLHALYQAGQLTLILVDHHILSKSDTALEEA  
VAEVLDRPIEPKHCPPCHVSVELVGSCATLVTERILQGAPEILDRQTAALLHGTIILDC  
VNMDLKIGKATPKDSKYVEKLEALFPDLPKRNDIFDSLQKAKFDVSGLTTEQMLRKDQKT  
IYRQGVKVAISAIYMDLEAFLQRSNLLADLHAFCAHSYDVLVAMTIFFNTHNEPVRQLA  
IFCPHVALQTTICEVLERSHSPPLKLTPASSTHPNLHAYLQGNTQVSRKKLLPLLQEALS  
AYFDSMKIPSGQPETADVSREQVDKELDRASNLSISGLSQDEEDPPLPPTPMNSLVDECP  
LDQGLPKLSAEAVFEKCSQISLSQSTTASLSKK

>sp|P49720|PSB3\_HUMAN Proteasome subunit beta type-3 OS=Homo sapiens GN=PSMB3 PE=1 SV=2

MSIMSYNGGAVMAMKGKNCVAIAADRRFGIQAQMVTTDFQKIFPMGDRLYIGLAGLATDV  
QTVAQRLKFRNLNLYELKEGRQIKPYTLMSMVANLLYEKRFPGYYTEPVIAGLDPKTFKPF  
ICSLDLIGCPMVTDDFVVSQCAEQMYGMCESLWEPNMDPDHLFETISQAMLNAVDRDAV  
SGMGVIVHIIKDKITTRTLKARMD

>sp|P28070|PSB4\_HUMAN Proteasome subunit beta type-4 OS=Homo sapiens GN=PSMB4 PE=1 SV=4

MEAFLSRSGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVK  
FEGGVVIAADMLGSYGLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEE  
LLGDGHSYSPRAIHSWLTRAMYSRRSKMNPLWNTMVIIGGYADGESFLGYVDMLGVAYEAP  
SLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRDARSYNRFQIATVTEK

GVEIEGPLSTETNWDIAHMISGFE

>sp|000233|PSMD9\_HUMAN 26S proteasome non-ATPase regulatory subunit 9 OS=Homo sapiens  
GN=PSMD9 PE=1 SV=3

MSDEEARQSGGSSQAGVVTVDVQELMRRKEEIEAQIKANYDVLESQKGIGMNEPLVDCE  
GYPRSDVDLYQVRTARHNIICLQNDHKAVMKQVEEALHQLHARDKEKQARDMAEAHKEAM  
SRKLGQSESQGPRAFPAKVNISIPGSPASIALGLQVDDEIVEFGSVNTQNFQSLHNIGSVV  
QHSEGKPLNVTVIRRGKHLRLVPTRWAGKLLGCNIIPLQR

>sp|PODJ07|PT100\_HUMAN Protein PET100 homolog, mitochondrial OS=Homo sapiens GN=PT100  
PE=1 SV=1

MGVKLEIFRMIIYLTFPVAMFWVSNQAEWFEDDVIQRKRELWPPEKLQEIEEFKERLRKR  
REEKLLRDAQNS

>sp|Q7Z6K3|PTAR1\_HUMAN Protein prenyltransferase alpha subunit repeat-containing protein  
1 OS=Homo sapiens GN=PTAR1 PE=1 SV=2

MAETSEEVAVLVQRVVKDITNAFRRNPHIDEIGLIPCPEARYNRSPIVLVENKLGVESWC  
VKFLLPYVHNKLLLYRTRKQWLNDELIDVTCTLLLNPDFTTAWNVRKELILSGTLNPI  
KDLHLGKLALTKFPKSPETWIHRRWVLQQLIQETSLPSFVTGKNGLTIPTERAQRLIQEE  
MEVCGEAGRYPNSYNAWSHRIWVLQHLAKLDVKILLDELSSTKHWASMHVSDHSGFHyr  
QFLLKSLISQTVIDSSVMEQNPLRSEPALVPPKDEEAAVSTEEPRINLPHLLEEEVEFST  
DLIDSYPGHETLWCHRRHIFYLQHHLNAGSQLSQAMEVDGLNDSSKQGYSETKRLK RTP  
VPDSLGLEMEHRFIDQVLSTCRNVEQARFASAYRKWLVTLSQ

>sp|H3BUK9|POTB2\_HUMAN POTE ankyrin domain family member B2 OS=Homo sapiens GN=POTEB2  
PE=3 SV=1

MVAEVCMPAASAVKKPFDLRSKMGKWCHHRFPCCRGSGTSNVGTSGDHDDSFMKTLRSK  
MGKWCCCHFCPCRGSGKSNVGTWGDYDDSAFMEPRYHVRREDLDKLHRAAWWGKVPKDL  
IVMLRDTDMNKRDKQRTALHLASANGNSEVVQLLLDRRCQLNVLDNKKRTALIKAVQCQ  
EDECVLMLLEHGADGNIQDEYGN TALHYAIYNEDKLMAKALLYGADIESKNKCGLTPLL  
LGVHEQKQEVVKFLIKKANLNALDRYGR TALILAVCCGSASIVNLLLEQNVDVSSQDLS  
GQTAREYAVSSHHVICELSDYKEKQMLKISSENSNPEQDLKLTSEESQRLKVSNSQ  
PEKMSQEP EINKDCREVEEEEIKKHGSNPVGLPENLTNGASAGNGDGLIPQRKSRKPEN  
QQFPDTENEEYHSDEQNDTQKQLSEEQNTGISQDEILTNKQKQIEVAEKEMNSELSLSHK  
KEEDLLRENSMLREEIAKLRL ELDETKHQNLRENKILEEIESVKEKLLKTIQLNEEALT  
KTSI

>sp|Q08752|PPID\_HUMAN Peptidyl-prolyl cis-trans isomerase D OS=Homo sapiens GN=PPID PE=1  
SV=3

MSHPSPQAKPSNPSNPRVFFDVIDGGERVGRIVLELFADIVPKTAENFRALCTGEKGIGH  
TTGKPLHFKGCPFHRIIKKFMIQGGDFSNQNGTGGESIYGEKFEDENFHYKHDREGLLSM  
ANAGRNTNGSQFFITTVPTPHLDGKHVVFQVVIKGIGVARILENVEVKGEKPAKLCVIAE  
CGELKEGDDGGIFPKDGS GDSHPDFPEDADIDLKDVDKILLIT EDLKNIGNTFFKSQNWE  
MAIKKYAEVLRYVDSSKAVIETADRACLPIALSCVLNIGACKLKMSNWQGAIDSCLEAL  
ELDPSNTKALYRRAQGWGLKEYDQALADLKAQGIAPEDKAIQAELLKVQKQIKAKQKDK  
EKAVYAKMFA

>sp|P32119|PRDX2\_HUMAN Peroxiredoxin-2 OS=Homo sapiens GN=PRDX2 PE=1 SV=5

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYPLDFTFVCPT EIIAFSN  
RAEDFRKLGC EVLGVSVDSQFTHLAWINTPRKEGGLGPLNIPLLADVTRRLSE DYGV LKT

DEGIAYRGLFIIDGKGVLRQITVNDLPVGRSVDEALRLVQAFQYTDEHGEVCPAGWKPGS  
DTIKPNVDDSKKEYFSKHN

>sp|P30044|PRDX5\_HUMAN Peroxiredoxin-5, mitochondrial OS=Homo sapiens GN=PRDX5 PE=1 SV=4  
MGLAGVCALRRSAGYILVGGAGGQSAAAAARRYSEGEWASGGVRSFSRAAAAMAPIKVG  
AIPAVEVFEGEPGNKVNLAELFKGKKGVLFVPGAFTPGCSKTHLPGFVEQAEALKAKGV  
QVVACLSVNDAFVTGEWGRAHKAEGKVRLADPTGAFGKETDLLLDDSLVSIFGNRRLKR  
FSMVVQDGIVKALNVEPDGTGLTCSLAPNIISQL

>sp|Q5JRX3|PREP\_HUMAN Presequence protease, mitochondrial OS=Homo sapiens GN=PITRM1 PE=1  
SV=3

MWRCGGRQGLCVLRRLSGGHAHHRAWNSNRACERALQYKLGDKIHGFTVNQVTSVPEL  
FLTAVKLTHDDTGARYLHLAREDNNLFSVQFRTTPMDSTGVPHILEHTVLCGSQKYP  
DPFFKMLNRSLSFTMNAFTASDYTLYPFSTQNPQDFQNLSSVYLDATFFPCLREDFWQ  
GWRLEHENPSDPQTPLVFKGVVFNEMKGAFTDNERIFSQHLQNRLLPDHTYSVVS  
GGDPLCIPELTWEQLKQFHATHYHPSNARFFTYGNFPLEQHLKQIHEEALSKFKIEP  
STVPAQTPWDKPREFQITCGPDSFATDPSKQTTISVSFLLPDITDTFEAFTLSLLS  
SLTSGPNSPFYKALIESGLGTDSPDVGNGYTREAYFSVGLQGIAEKDIETVRS  
LIDRTIDEVVEKGFEDDRIEALLHKIEIQMKHQSTSFGLMLTSYIASCWNH  
DGPVELLKLGNQLAKFRQCLQENPKFLQEKVKQYFKNNQHKLTLSMRPDDKY  
HEKQAQVEATKLKQKVEALSPGDRQQIYEKGLELRSQQSKPQDASCLPALKV  
SDIEPTIPVTELDVVLTAGDIPVQYCAQPTNGMVYFRAFSSLNTLPEELRPYV  
PLFCSVLTKLGCGLLDYREQAQQIELKTGGMSASPHVLPDDSHMDTYEQGVLF  
SSCLDRNLPDMMQLWSEIFNNPCFEEEEHFVLVKMTAQELANGIPDSGHL  
YASIRAGRTPAGDLQETFSGMDQVRLMKRIAEMTDIKPILRKLPRIKHLLNGD  
NMRC SVNATPQQMPQTEKAVEDFLRSIGRSKKERRPVRPHTVEKPVSSSGG  
DAHVP HGSQVIRKLVMEPTFKPWQMKTHFLMPFPVNVGECIRTPYTPD  
HASLKILARLMTAKFLHTEIREKGGAYGGGAKLSHNGIFTLYSYRDPNTIETLQ  
SFKAVDWAKSGKFTQQDIDEAKLSVSTVDAPVAPSDKMDHFLYGLSDEM  
KQAHREQLFAVSHDKLLAVSDRYLGTGKSTHGLAILGPENPKIAKDPSWIIQ

>sp|Q9Y2Y8|PRG3\_HUMAN Proteoglycan 3 OS=Homo sapiens GN=PRG3 PE=1 SV=2

MQCLLLL PFLLLGTVSALHLENDAPHLESLETQADLGQDLDSKEQERDLALTEEVIQAE  
GEEVKASACQDNFEDEEAMESDPAALDKDFQCPREEDIVEVQGS  
PRCKICRYLLV RTPKTFAEAQNVCSR  
CYGGNLVSIHDFNFNYRIQCCTSTVNQAQVWIGGNLRGWFLWKRFCWTDG  
SHWNFAWSPGPGNGQGSCVALCTKGGYWRRAQCDKQLPFVCSF

>sp|Q16378|PROL4\_HUMAN Proline-rich protein 4 OS=Homo sapiens GN=PRR4 PE=1 SV=3

MLLVLLSVLLALSSAQSTDNDVNIEDFTFTIPDVEDSSQRPDQGPQRPPPEGL  
LPRPPGDSGNQDDGPQQRPPKPGGHRHPPPPFQNNQQRPPRGHRQLSLPRFPSVSLQEASSFFQ  
RDRPARHPQEQLW

>sp|O43490|PROM1\_HUMAN Prominin-1 OS=Homo sapiens GN=PROM1 PE=1 SV=1

MALVLGSLLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVH  
IFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKPETVILGLKIVYYEAGIILCCVLG  
LLFIILMPLVGYFFCMCRCCNKCGGEMHQKQKENGPFRLKCF AISLLVICIIISIGIF  
YGFVANHQVRTRIKRSRKLADSNFKDLRTLNETPEQIKYILAQYNTTKDKAFTDLNS  
INSVLGGGILDRLRPNIIPVLDEIKSMATAIKETKEALENMNSTLKS  
LHQQSTQLSSSLTSVKTSLSRSLNDPLCLVHPSSSETCNSIRLSLSQLNSNP  
ELRQLPPVDAELDNVNNVLRDLDGLVQQGYQSLNDIPDRVQRQT  
TTTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNTESYI

HRNLPTLEEDSYWWLGGVLICSLTLIVIFYLGLLCGVCYDRHATPTTRGCVSNTGG  
VFLMVGVLGSLFCWILMIIVVLTFFVFGANVEKLICEPYTSKELFRVLDTPYLLNEDWEY  
YLSGKLFNKSMMKLTFEQVYSCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELES  
LKVNINIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLISFAYDLEAKANS  
LPPGNLRNSLKRDAQTIKTIHQQRVLPIDQSLSTLYQSVKILQRTGNGLLERVTRILASL  
DFAQNFITNNTSSVIEETKKYGRTIIGYFEHYLQWIEFSISEKVASCKPVATALDTAVD  
VFLCSYIIDPLNLFWFGIGKATVFLPALIFAVKLAKYYRRMSEDVYDDVETIPMKNME  
NGNNGYHKDHVYGIHNPVMTSPSQH

>sp|Q9BWN1|PRR14\_HUMAN Proline-rich protein 14 OS=Homo sapiens GN=PRR14 PE=1 SV=1

MDLPGDSSPPGQPRLCRQLTRALWGARSPKRPRLQLPGAPSPLEKASRRVLAVVLEDVM  
AVHMPVVPVPSKQTSIPQHHSYHQDPVHRQPPASPPRQAGWSSQARPPDPLCLCREPLSRI  
HRTSSTLRRRSRTTPGPEEGPSQKVDRAQPTLVVMEEDIASPRPPAEGFIDETPNFIIP  
AQRAEPMRIVRQPTPPPGDLEPPFQPSALPADPLESPPTAPDPALELPSTPPPSLLRPR  
LSPWGLAPLFRSVRSKLESFADIFLTPNKTQPPPPSPMKLELKIAISEAEQSGAAEGT  
ASVSPRPPIRQWRTQDHTPALLPKPSLGRSYSCPDLPGPGBTCTWPPAPPQPSRPRPR  
RHTVGGGEMARAPPPRCLRKEVFPLGGVGASPSLTSCSSTASTSFSEPAEPRLGSTK  
GKEPRASKDQVLEPETKTMGKVSRRFRIRTPARPQLNLTMPGLPRPIRLNKKEFSLEEI  
YTNKNYQSPTRRTFETIFEPRERNGTLIFTSSRKLRRAVEFRDSSLPRSRPSRGVRA  
AGGRTPVPNVAPSPDVGPLLQQRLEELDALLLEEETVDREQPHWT

>sp|Q53SZ7|PRR30\_HUMAN Proline-rich protein 30 OS=Homo sapiens GN=PRR30 PE=2 SV=1

MLPQNKDQVLPQTSVLPGRPTWGFSQLVDSSPHNLQPLSPHQGLPPSQPPFSSTQSRPRS  
SPPASPSPGFQFGCDNSDFAPHPYSPSLPSSPTFFHQNYLSLPRPRASSPSNHWLYP  
SPPLTPSFSPSQPNSSLPSPCQSPSHPEELHSSTLTSPGPSPPSHRLHSNRQTWRWHQ  
YRDTGSGSPGVVERCVPSEKDPAQFRDPGALAQALVVQLGHRRIAHDRLRLLLQHLWLGR  
TGQAPVVEYPICLVLRPRSPSCLPRYRTGPRLLAFPQLPCVQGGESGPLRIGIGFGL  
RLPQGGARALHLLPEKRPKEAGPQKATQACGHQLPASQPAAQARADVPVGTSPQTRSF  
RSAGLQSPNSPRCFSGPPPRAPKQVTTSLKPRPCPGKRPVSLELILQKSSV

>sp|POCG20|PRR35\_HUMAN Proline-rich protein 35 OS=Homo sapiens GN=PRR35 PE=2 SV=1

MSREAGSCRVTGARARSRKPKKPHYIPRPWGKPYNYKCFQCPFTCLEKSHLYNHMKYSL  
CKDSLSELLDSPDWACRRGSTTPRHAPTPDRPGESDPGRQPQGARPTGAAPAPDLVVAD  
IHSLHCGGPKSRAKSGP PPPVARATRKGPGPSGLLPESWKPGMGDPRGVGAGDMAS  
AGPEGSVPCYPPAPGEFPEAHSLLHLLGVNYPLSPGLFSYLGPSLAAAAHVPFLASAS  
PLLPPATAFPAVPPQRPTAPRLYYPLLEHTLGLPAGKAALAKAPVSPRSPSGTPAPG  
LLKVPVPGLGPWPRVTPRDPGQEGELERAAQSDPRRRLSLGSRLELPKASPSLTRFCSRS  
SLPTGSSVMLWPEDGDPGPETPGPEGPLPLQPRGPVPGSPEHVGEDLTRALGDYARVEQ  
RLGQLGPAGGLAPRPLREQLGKIRLELLTIHQALEQAVRPPDAPLDLSVKRAPAKGPQAL  
GEAWGRPELGPVLTGGTPEPPGMLGPAAPQPFSGHTTKCEADSSVPPPGPLAAPDDPVI  
PGSGWGTCVATRSSQTPEAVCGLQSPQGAEV

>sp|Q5T870|PRR9\_HUMAN Proline-rich protein 9 OS=Homo sapiens GN=PRR9 PE=4 SV=1

MSFSEQQCKQPCVPPCLPKTQECCQAKAEVCLPTCQHPCQDKCLVQAQEVCLSQCCES  
SQEKCPQQGQEPYLPCCQDQCPPQCAEPCQELFQTKCVEVCPQKVQEKCSSPGKGK

>sp|P81277|PRRH\_HUMAN Prolactin-releasing peptide OS=Homo sapiens GN=PRRH PE=2 SV=1

MKVLRAWLLCLMLGLALGAASRTHRSMEIRTPDINPAWYASRGIRPVGRFGRRRATL  
GDVPKPGLRPRLTCFPLEGGAMSSQDG

>sp|Q99946|PRRT1\_HUMAN Proline-rich transmembrane protein 1 OS=Homo sapiens GN=PRRT1 PE=2 SV=2

MSSEKSGLPDSVPHTSPPPYNAPQPPAEPPAPPPQAAPSSHHHHHHHHYHSGTATLPRLG  
AGGLASSAATAQRGPSSSATLPRPPHHAPGPAAGAPPPGCATLPRMPPDPYLQETRFEG  
PLPPPPAAAAAPPPAPAQTAQAPGFVVPHTAGTVGTLPLGGYVAPGYPLQLQPCTAYVP  
VYPVGTPYAGGTPGGTGVSTLPPPPQGPGGLALLEPRRPPHDYMPIAVLTTICCFWPTGI  
IAIFKAVQVRTALARGDMVSAEIASREARNFSFISLAVGIAAMVLCTILTVVIIIAAQHH  
ENYWDP

>sp|C9JH25|PRRT4\_HUMAN Proline-rich transmembrane protein 4 OS=Homo sapiens GN=PRRT4 PE=2 SV=1

MARHGCLGLGFCCVLFAATVGPQPTPSIPGAPATTLTPVPQSEASMLSLNLGLNFKFHL  
RGPAAVWGSPVTETQPLSLGPGQEPGEEVASGLRTDPLWELLVGSSGNSLTEWGSTEGGS  
KPRASSLLPESTSRRSGPSDGPTAPYQPRRSTVTWDTALMVTALPSSAPRPHQSELELKF  
DMALRAGAAPTGLHRTLPLPSLRASLAEIAGRLGPFGGFTTSLPLRNFSGLSPPGETT  
STSSASGVSGSLGFLGTTLSLPPYSLERKLSSPSPLDPAASLSFASIATTSLDPTVPISG  
PDDLSPPASLGNPSGQPEGCGSCSVGELPEREGQPPEAPRPLFFLTLEADWAEARARWG  
LAWEAHVYGVGALFGLVALLALLALALLPWRCPPGAPCLALLDLLLLSAGTTRAFPLFYD  
AYGHRDRLPALAWLLQDLPLCLAAGLGLACLLARPPRCPTGLAALLLLGLGLAAA  
AALGSAHRPLRPLRLASRGLHAFLAFLSGLLLALSCWGRRRRRAGAPLGGSGFKGATP  
LPQGRSPFAPRESWRRRAARTAPVAGTFGLLSGALQGYEVLHALGYGGQSGLEGPWVWAF  
QLGLRLGEVGVALPLALLGLYPALCSPRVPPRCWAKLFRSPGHAAPLLPGGWVTGPPDK  
EPLGSAIARGDAELLQLCALAGPGDLLLQGGGCRGFEGAAANPAPSPASSPCSDYTVDF  
RPPSPINLRRSIEEALCSEALLAPGLFQGPAFEDALPGLGLYRTASLTGGRASERSGEA  
SGPAAPPELPSPGAWPAGSSVSSGFCGLSRDSSMLLCSSPDRPPRCPLVCVLSPPRPS  
GSSPSLPASGSYQALSPPSRDSPEPASELQAEELQEQFLDACRQIDELSVGSDTIDL

>sp|P54821|PRRX1\_HUMAN Paired mesoderm homeobox protein 1 OS=Homo sapiens GN=PRRX1 PE=1 SV=2

MTSSYGHVLERQPALGGRLDSPGNLDTLQAKKNFSVSHLLDLEEAGDMVAAQADENVGEA  
GRSLLESPGLTSGSDTPQQDNDQLNSEKKKKRKQRRNRTTFNSSLQALERVFERTHYPD  
AFVREDLARRVNLTEARVQVWFQNRRAKFRNRNERAMLANKNASLLKSYSGDVTAVEQPIV  
PRPAPRPTDYLWGTASPYSAMATYSATCANNSPAQGINMANSIANLRLKAKEYSLQRNQ  
VPTVN

>sp|Q8NF86|PRS33\_HUMAN Serine protease 33 OS=Homo sapiens GN=PRSS33 PE=1 SV=3

MRGVSCLQVLLLLVLGAAGTQGRKSAACGQPRMSSRIVGGRDGRDGEWPWQASIQHRGAH  
VCGSLIAPQWVLTAAHCFPRRALPAEYRVRLGALRLGSTSPRTLSPVVRVLLPPDYSE  
DGARGDLALLQLRRPVPLSARVQPVCLPVPGARPPPGTPCRVTGWGSLRPGVPLPEWRPL  
QGVRVPLLDSTCDGLYHVGVADVPQAERIVLPGLCAGYPQGHKDACQGDGGPLTCLQS  
GSWVLVGVVSWGKGCALPNRPGVYTSVATYSPWIQARVSF

>sp|Q8N3Z0|PRS35\_HUMAN Inactive serine protease 35 OS=Homo sapiens GN=PRSS35 PE=2 SV=2

MENMLLWLIFFTPGWTLDGSEMEWDFMWHLRKVPRIVSERTFHLTSPAFEADAKMMVNT  
VCGIECQKELPTPSLSELEDYLSYETVFENGTRTLTRVKVQDLVLEPTQNITTKGVSRR  
KRQVYGTDSTRFSILDKRFLTNFPFSTAVKLSTGCSGILISPQHVLTAACHVHDGKDYVKG  
SKKLRVGLLKMRNKSOGKKRRGSKRSRREASGGDQREGTREHLRERAKGRRRKKSGRGQ  
RIAEGRPSFQWTRVKNTHIPKGWARGMGDATLDYDYALLELKRAHKKKYMELGISPTIK

KMPGGMIHFSGFDNDRADQLVYRFCVSDESNDLLYQYCDAESGSTGSGVYLRLKDPDKK  
NWKRKIIAVYSGHQWVDVHGVQKDYNAVRIITPLKYAQICLWIHGNDANCAYG

>sp|Q8TAA3|PSA7L\_HUMAN Proteasome subunit alpha type-7-like OS=Homo sapiens GN=PSMA8 PE=2  
SV=3

MASRYDRAITVFSPDGHFLFQVEYAEAVKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERT  
VRKICALDDHVCMAFAVLTIFIGLTADARVVINRARVECQSHKLTVEDPVTVEYITRFIA  
TLKQKYTQSNRRPFGISALIVGFDDGISRLYQTDPSGTYHAWKANAIGRSAKTVREFL  
EKNYTEDAIASDSEAIKLAIKALLEVVQSGGKNIELAIIRRNQPLKMFAKEVELYVTEI  
EKEKEEAEEKKSKKSV

>sp|P55786|PSA\_HUMAN Puromycin-sensitive aminopeptidase OS=Homo sapiens GN=NPEPPS PE=1  
SV=2

MWLAAPSLARRLLFLGPPPPPLLLLVFSRSSRRRLHSLGLAAMPEKRPFERLPADVSP  
INYSCLCLKPDLLDFTFEGKLEAAQVRQATNQIVMNCADIDIITASYAPEGDEEIHATGF  
NYQNEDEKVTLSFPSTLQTGTGLKIDFVGLNDKMKGFYRSKYTTPSGEVRYAAVTQFE  
ATDARRAFPCWDEPAIKATFDISLVVPKDRVALSNMVIDRKYPDDENLVEVKFARTPV  
MSTYLVAFVVGEYDFVETRSGDGVCRVYTPVGKAEQGFALVAAKTLFPYKDYFNVPY  
PLPKIDLIATADFAAGAMENWGLVITYRETALLIDPKNSCSSSRQWVALVVGHELAHQWFG  
NLVTMEWWTHLWLNFGFASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHP  
VSVGHPSEVDEIFDAISYSGKASVIRMLHDYIGDKDFKKGMNMYLTKFQQKNAATEDLWE  
SLENASGKPIAAMNTWTKQMGFPLIYVEAEQVEDDRLRLSQKKFCAGGSYVGEDCPQW  
MVPITISTEDPNQAKLKILMDKPEMNVVLKNVKPDQWVKLNLGTVGFYRTQYSSAMLES  
LLPGIRDLSLPPVDRLGLQNDLFSLARAGIISTVEVLKVMFAFVNPNYTVWSDLSCNLG  
ILSTLLSHTDFYEEIQEFVKDFVSPIGERLWDPKPGEGHLDALLRGLVLGKLKGAGHKA  
TLEEARRRFDHVEGKQILSADLRSPVYLTVLKHGDTTLDIMLKLHKQADMQEEKNR  
RVLGATLLPDLIQKVLTFALSEEVRPQDTVSVIGGVAGGSKHGRKAAWKFIKDNWEELYN  
RYQGGFLISRLIKLSVEGFVADKMAKEVKAFFESHAPSARTIQCCENILLNAAWLKR  
DAESIHQYLLQRKASPTTV

>sp|043653|PSCA\_HUMAN Prostate stem cell antigen OS=Homo sapiens GN=PSCA PE=1 SV=1

MKAVLLALLMAGLALQPGTALLCYSCKAQVSNECLQVENCTQLGEQCWTARIRAVGLLT  
VISKGCSLNCVDDSDQYYVGKKNITCCDIDLNASGAHALQPAAAILALLPALGLLLWGP  
GQL

>sp|Q8NDX1|PSD4\_HUMAN PH and SEC7 domain-containing protein 4 OS=Homo sapiens GN=PSD4  
PE=1 SV=2

MMGDYRLPDHPQMEILNLYLGDLSLEPHGECPRETCSHEDPPEPFEEQTWATDPPEPTR  
QNVPPWGSVELTHLGSVWHQDGLGPCQEQTRATDPPESTRQDAPPWGSVELTHLGSPS  
AQREHRQNTASPGSPVNSHLPSPKQNRSTSTQVFWAGILQAQMCVLDLEEELEKTEGL  
KAGLKCLPTPPVDLPDGLHSSPPENEDSGEDSSEPEGEGQAWLREGTPDSSPWGAE  
EESMFFSNPLFLASPCSENSASGECFSWGASDSHAGVRTGPESATLEPPLPEDTVLWEL  
ESEPDLDGAAISGHCTPPFPVPIYKPHSICWASVAAAEGAPAAPPGHGESEGDRLGPAP  
SAAPCVDEALTWESGCVGSDLGPAHPVQPWASLSPEGWQRGGPFWPQVTLNSQDRDERE  
GGHPQESLPCTLAPCPWRSPASSPEPSSPESESRGPGPRSPASSQEGSPQLQHHSSGIL  
PKWTLASQSSLLETDEGEQPSLLKKKEAGEAPKPGEEVKSEGTARPAETGDVQPDILHLS  
AEHENLRTPMNSSWLPGSPMPQAQSPPEGQRPPAGDKLANGVRNNKVAWNLASRLYRLEG  
FRKSEVAAYLQKNDFSRVAEEYLSFFQFGGQSLDRALRSFLQALVLSGETQERERILY

QFSRRFHHCNPGIFPSVDSVHTLTCAIMLLNTDLHGQNIKSMSCQEFITNLNGLRDGGN  
FPKELLKALYWSIRSEKLEWAVDEEDTARPEKAQPSLPAGKMSKPFLQLAQDPTVPTYKQ  
GILARKMHQDADGKKTPWGKRGWKMFTLLRGMVLYFLKQGEDHCLEGESLVGQMVDEPV  
GVHHSLATPATHYTKKPHVFQLRTADWRLYLFQAPTAKEMSSWIARINLAAATHSAPFP  
AAVGSQRRFVRPILPVGPAQSSLEEQRSHENCLDAAADDLLDLQRNLPERRGRGRELEE  
HRLRKEYLEYEKTRYETVYVQLLVARLHCPDSDLWEEQLGREAGGTREPKLSLKKSHSS  
PSLHQDEAPTTAKVKRNIERRTYRKIIIPKRNRNQL

>sp|P11464|PSG1\_HUMAN Pregnancy-specific beta-1-glycoprotein 1 OS=Homo sapiens GN=PSG1  
PE=1 SV=1

MGTLSAPPCTQRIKWGLLLTASLLNFWNLPTTAQVTIEAETKVSEKDVLLLVHNLPPQ  
NLTYGIWYKGMRDLYHYITSYVVDGEIIIIYGPAYSGRETAYSNASLLIQNVTREDAGSY  
TLHI IKGDDGTRGVTRFTFTLHLETPKPSISSNLPRETMEAVSLTCDPETPDASYLW  
WMNGQSLPMTHSLKLSETNRTLFLGVTKYTAGPYECEIRNPVSASRSDPVTNLNLPKLP  
KPYITINNLPRENKDVLFNFTCEPKSENYTYIWWLNGQSLPVSPRVKRPIENRILILPSV  
TRNETGPYQCEIRDRYGGIRSDPVTNLNLYGPDLPRIYPSFTYYRSGEVLYLSCSADSNP  
PAQYSWTINEKFQLPGQKLFIRHITTKHSGLYVCSVRNSATGKESSKSMTEVSDWTV

>sp|Q13046|PSG7\_HUMAN Putative pregnancy-specific beta-1-glycoprotein 7 OS=Homo sapiens  
GN=PSG7 PE=5 SV=2

MGPLSAPPCTQHITWKGLLLTASLLNFWNPPTTAQVTIEAQQPKVSEKDVLLLVHNLPPQ  
NLTGHIWYKGMIRDLYHYVTSYIVDGQIIKYGPAYSGRETVYSNASLLIQNVTQEDTGSY  
TLHI IKRGDGTGGVTGRFTFTLYLETPKPSISSNFPRETEAVILTCDPETPDASYLW  
WMNGQSLPMTHSLQLSETNRTLFLFGVTNYTAGPYECEIRNPVSASRSDPVTNLNLPKLP  
KPYITINNLPRENKDVSTFTCEPKSENYTYIWWLNGQSLPVSPRVKRRIENRILILPSV  
TRNETGPYQCEIRDRYGGIRSDPVTNLNLYGPDLPRIYPSFTYYHSGQNLVLSCFADSNP  
PAQYSWTINGKFLSGQKLSIPQITTKHSGLYACSVRNSATGKESSKSVTVRVSDWTL

>sp|O43242|PSMD3\_HUMAN 26S proteasome non-ATPase regulatory subunit 3 OS=Homo sapiens  
GN=PSMD3 PE=1 SV=2

MKQEGSARRRGADAKAPPPGGGEQEP PPPAPQDVEMKEEAATGGGSTGEADGKTA  
EHSQRELDVTLTEDIKEHVQLEKAVSGKEPRFVLRLRMLPSTSRRLNHYVLYKAVQGF  
FTSNNATRDFLLPFLEPMDEADLQFRPRTGKAASSTPLLPEVEAYLQLLVIFMMNSKR  
YKEAQKISDDLMQKISTQNRRLDLVAAKCYHHARVYEFDLKLDVRSFLHARLRTATL  
RHDADGQATLLNLLRNLYHSLYDQAEKLVSKSVFPEQANNNEWARYLYTGRIKATQL  
EYSEARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLKRSMPY  
FLLTQAVRTGNLAKFNQVLDQFGEKFQADGTYTLIIIRLHNVIKTGVRMISLSYSRISLA  
DIAQKLQLDSPEDAEIFVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQRI  
SFCLDIHNMSVKAMRFPPKSYNKDLESAEERREREQQDLEFAKEMAEDDDDSFP

>sp|Q9UL46|PSME2\_HUMAN Proteasome activator complex subunit 2 OS=Homo sapiens GN=PSME2  
PE=1 SV=4

MAKPCGVRLSGEARKQVEVFRQNLQEAEEFLYRFLPQKIIYLNQLLQEDSLNVADLTSL  
RAPLDIPIPDPPPKDDEMETDKQEKKEVHKCGFLPGNEKVL SLLALVKPEVWTLKEKCIL  
VITWIQHLIPKIEDGNDFGVAIQEKVLERVNAVTKVEAFQTTISKYFSERGA  
VAKASKETHVMDYRALVHERDEAAAYGELRAMVLDLRAFYAELYHIISSNLEKIVNPKGEEKPSMY

>sp|Q9NY27|PPP4R2\_HUMAN Serine/threonine-protein phosphatase 4 regulatory subunit 2  
OS=Homo sapiens GN=PPP4R2 PE=1 SV=3

MDVERLQEALKDFEKRGGKEVCPVLDQFLCHVAKTGETMIQWSQFKGYFIFKLEKVMDDF  
RTSAPEPRGPPNPVVEYIPFDEMKERILKIVTGFGIPFTIQRLCELLDPRRNYGTGDK  
FLRGVEKNVMVSCVYPSSEKNNSNSLNRMGVMFPGNSPSYTERSNINGPGTPRPLNRP  
KVSLSAPMTTNGLPSTDSKEANLQQNEEKNHSDSSTSESEVSSVSPLKNKHPDEDAVEA  
EGHEVKRLRFDKEGEVRETASQTTSSEISSVMVGETEASSSSQDKDKDSRCTRQHCTEED  
EEEEEEEEESFMTSREMIPERKNQEKESDDALTVNEETSEENNQMEESDVSQAEDLLH  
SEGSENEGVSSSSSDCRETEELVGSNSSKTGEILSESSMENDDEATEVTDEPMEQD

>sp|Q5H9R7|PP6R3\_HUMAN Serine/threonine-protein phosphatase 6 regulatory subunit 3  
OS=Homo sapiens GN=PPP6R3 PE=1 SV=2

MFWKFDLHSSSHIDTLEREDVTLKELMDEEDVLQECKAQRKLIIEFLKAECLEDLVSF  
IIEEPPQDMDEKIRYKYPNISCELLTSDVSQMNDRLGEDESLLMKLYSFLNDSPLNPLL  
ASFFSKVLSILISRKPEQIVDFLKKKHDFVDLI IKHIGTSAIMDLLRLTLCIEPPQPRQ  
DVLNWLNEEKIIQRLVEIVHPSQEEDRHSNASQSLCEIVRLSRDQMLQIQNSTEPDPLLA  
TLEKQEIIIEQLLSNIFHKEKNESAIVSAIQILLTLETRRPTFEGHIEICPPGMSHSACS  
VNKSVLEAIRGRLGSFHELLLEPPKKSVMKTTWGVLDPPVGNTRLNVIRLISSLLQTNTS  
SINGDLMELNSIGVILNMFKYTWNFLHTQVEICIALILASPFENTENATITDQDSTGD  
NLLKHLFKQCQLIERILEAWEMNEKKQAEGGRRHGYMGHLTRIANCIHVSTDKGPNSAL  
VQQLIKDLPDEVRRWETFCTSSLGETNKRNTVDLVTTCIHSSSDDEIDFKETGFSQDS  
SLQQAFSDYQMQMTSNFIDQFGFNDEKFADQDDIGNVSFDRVSDINFTLNTNESGNIAL  
FEACCKERIQQFDDGGSDEEDIWEEKHIAFTPESQRRSSSGSTDSEESTDSEEDGAKQD  
LFEPSSANTEDKMEVDLSEPPNWSANFDVPMETTHGAPLDSVGSVDVWSTEEMPMTKETGW  
ASFSEFTSSLSTKDSLRSNSPVEMETSTEPMDPLTPSAAALAVQPEAGSVAMEASSDGE  
EDAESTDKVTETVMNGGMKETLSLTVDAKTETAVFKSEEGKLSTSQDAACKDAEECPETA  
EAKCAAPRPPSSSPEQRTGQPSAPGDTSVNGPV

>sp|Q9NPH0|PPA6\_HUMAN Lysophosphatidic acid phosphatase type 6 OS=Homo sapiens GN=ACP6  
PE=1 SV=2

MITGVFSMRLWTPVGVLTSLAYCLHQRRLAELQEADGQCPVDRSLLKLMVQVVFRRHG  
ARSPLKPLPLEEQVEWNPQLLEVPQTQFDYTVTNLAGGPKPYSPYDSQYHETTLKGMF  
AGQLTKVGMQMFALGERLRKNYVEDIPFLSPTFNPQEVFIRSTNIFRNLESTRCLLAGL  
FQCQKEGPIIIHTDEADSEVLYPNYQSCWSLRQRTRGRRQTASLQPGISEDLKKVKDRMG  
IDSSDKVDFFILLDNVAEAQAHNLPSCPMLKRFARMIEQRAVDTSLYILPKEDRESLQMA  
VGPFLHILESLLKAVDSATAPDKIRKLYLYAAHDVTFIPLLMTLGI FDHKWPPFAVDLT  
MELYQHLESKEWFVQLYYHGKEQVPRGCPDGLCPLDMFLNAMS VYTLSP EKYHALCSQTQ  
VMEVGNEE

>sp|P24666|PPAC\_HUMAN Low molecular weight phosphotyrosine protein phosphatase OS=Homo  
sapiens GN=ACP1 PE=1 SV=3

MAEQATKSVLFVCLGNICRSPIAEAVFRKLVTDQNI SENWRVDSAATSGYEIGNPPDYRG  
QSCMKRHGIPMSHVARQITKEDFATFDYILCMDES NLRDLNRKSNQVKTC AKI ELLGSY  
DPQKQLIIEDPYYGNDSDFETVYQQCVRCCRAFLEKAH

>sp|P15309|PPAP\_HUMAN Prostatic acid phosphatase OS=Homo sapiens GN=ACPP PE=1 SV=3

MRAAPLLLARAASLSLGLFLLFFWLDRSVLAKELKFVTLVFRHGD RSPIDTFPTDPIKE  
SSWPQFGFGLTQLGMEQHYELGEYIRKRYRKF LNESYKHEQVYIRSTDVDR TLMSAMTNL  
AALFPPEGVSIWNPI LLWQIPVHTVPLSEDQLLYLPFRNCPRFQELESETLKSEEFQKR  
LHPYKDFIATLGKLSGLHGQDLFGIWSKVYDPLYCESVHNFTLPSWATEDTMTKLRELSE



LSLLSLYGIHKQKEKSRLQGGVLVNEILNHMKRATQIPSYKKLIMYSAHDTTVSGLQMAL  
DVYNGLLPPYASCHLTELYFEKGEYFVEMYRNETQHEPYPLMLPGCSPSCPLERFAELV  
GPVIPQDWSTECMTTNSHQGTEDSTD

>sp|P05187|PPB1\_HUMAN Alkaline phosphatase, placental type OS=Homo sapiens GN=ALPP PE=1  
SV=2

MLGPCMLLLLLLGLRLQLSLGIIPVEEENPDFWNREAAEALGAACKLQPAQTAANKLII  
FLGDGMGVSTVTAARILKGQKKDLGPEIPLAMDRFPYVALSKTYNVDKHVPDSGATATA  
YLCGVKGNFQTIGLSAAARFNQCNTRGNEVISVMNRAKKAGKSVGVTTRVQHASPAG  
TYAHTVNRNWYSADVPASARQEGCQDIATQLISNMDIDVILGGGRKYMFRMGTPDPEYP  
DDYSQGGTRLDGKNLVQEWLAKRQGARYVWNRTELMQASLDPSVTHLMGLFEPGDMKYEI  
HRDSTLDPSLMEMTEAALRLLSRNPRGFFLFVEGGRIDHGHESRAYRALTETIMFDDAI  
ERAGQLTSEEDTLTLVTADHSHVFSFGGYPLRGSSIFGLAPGKARDKAYTVLLYNGPG  
YVLKDGARPDVTESESGSPEYRQQSAVPLDEETHAGEDVAVFARGPQAHLVHGVQEQTFI  
AHVMAFAACLEPYTACDLAPPAGTTDAAHPGRSVVPALLPLLAGTLLLLLETATAP

>sp|P09923|PPBI\_HUMAN Intestinal-type alkaline phosphatase OS=Homo sapiens GN=ALPI PE=1  
SV=2

MQGPWVLLLLLGLRLQLSLGVIPAEENPAFWNRQAAEALDAAKKLQPIQKVAKNLILFLG  
DGLGVPTVTATRILKGQKNGKLGPEIPLAMDRFPYLALSKTYNVDRQVPDSATATAYLC  
GVKANFQTIGLSAAARFNQCNTRGNEVISVMNRAKQAGKSVGVTTRVQHASPAGTYA  
HTVNRNWYSADMPASARQEGCQDIATQLISNMDIDVILGGGRKYMFPMGTPDPEYPADA  
SQNGIRLDGKNLVQEWLAKHQGAWYVWNRTELMQASLDQSVTHLMGLFEPGDTKYEIHRD  
PTLDPSTLMEATEAALRLLSRNPRGFYLFVEGGRIDHGHHEGVAYQALTEAVMFDDAIERA  
GQLTSEEDTLTLVTADHSHVFSFGGYTLRGSSIFGLAPSKAQDSKAYTSILYNGPGYVF  
NSGVRPDVNESESGSPDYQQAAVPLSSETHGGEDVAVFARGPQAHLVHGVQEQSFAHV  
MAFAACLEPYTACDLAPPACTTDAHPVAASLPLLAGTLLLLGASAAP

>sp|Q9Y3C6|PPIL1\_HUMAN Peptidyl-prolyl cis-trans isomerase-like 1 OS=Homo sapiens  
GN=PPIL1 PE=1 SV=1

MAAIPDSWQPPNVYLETSMGIIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIKDF  
MIQGGDPTGTGRGGASIYGKQFEDELHPDLKFTGAGILAMANAGPDTNGSQFFVTLAPTQ  
WLDGKHTIFGRVCQGIGMVNRVGMVETNSQDRPVDDVKIIKAYPSG

>sp|Q8TCE9|PPL13\_HUMAN Placental protein 13-like OS=Homo sapiens GN=LGALS14 PE=1 SV=2

MSSLVPYTLPLVSLPVGSCVIIITGTPILTFTVKDPQLEVNFTYTGMDSDIAFQFRLHFGH  
PAIMNSCVFGIWRYEKCYLPLFEDGKPFELCIYVRHKEYKVMVNGQRIYNFAHRFPAS  
VKMLQVFRDISLTRLISD

>sp|075688|PPM1B\_HUMAN Protein phosphatase 1B OS=Homo sapiens GN=PPM1B PE=1 SV=1

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYD  
GHAGSRVANYCSTHLEHITTNEDFRAAGKSGSALELSVENVKNGIRTGFLKIDEYMRNF  
SDLRNGMDRSGSTAVGVMISPKHIYFINGDSRAVLYRNGQVCFSTQDHPKCNPREKERI  
QNAGGSVMIQRVNGSLAVSRALGDYDYKCDGKGPTEQLVSPEPEVYEILRAEDEFIIL  
ACDGIWDVMSNEELCEYVKSRLVSDDLNVCNWVDTCLHKGRDNMSIVLVCFSNAPK  
VSDEAVKKDSELDKHLESRVEEIMEKSGEEMPDLAHVMRILSAENIPNLPPGGLAGKR  
NVIEAVYSRLNPHRESGDASDEAEESGSQGLVEALRQMRINHRGNRQLLEEMLSYRL  
AKVEGEESPAEPAATATSSNSDAGNPVTMQESHTESESGLAELDSSNEDAGTKMSGEKI

>sp|P50336|PPOX\_HUMAN Protoporphyrinogen oxidase OS=Homo sapiens GN=PPOX PE=1 SV=1

MGRTVVVLGGGISGLAASYHLSRAPCPPKVVLVESSERLGGWIRSVRGPNGAIFELGPRG  
IRPAGALGARTLLLSELGLDSEVLVVRGDHPAAQNRFLYVGGALHALPTGLRGLLRPSP  
PFSKPLFWAGLRELTKPRGKPEDTVHSFAQRRLGPEVASLAMDSLRCRVFAGNSRELSI  
RSCFPSLFAQEQTHRSILLGLLGAGRTPQPDALIRQALAERWSQWSLRGGLEMLPQAL  
ETHLTSRGVSVLRGQPVCGLSLQAEGRWKVSLRDSSEADHVISAIPASVLSSELLPAEAA  
PLARALSAITAVSVAVVNLQYQGAHLPVQGFHLPVPSSEDPGVLGIVYDSVAFPEQDGSP  
PGLRVTVMLGGSWLQTLASGCVLSQELFQQRAQEAATQLGLKEMPSHCLVHLHKNCIP  
QYTLGHWQKLESARQFLTAHRLPLTLGASYEGVAVNDCIESGRQAAVSVLGTEPN

>sp|Q8WVI7|PPR1C\_HUMAN Protein phosphatase 1 regulatory subunit 1C OS=Homo sapiens  
GN=PPP1R1C PE=1 SV=1

MEPNSPKKIQFAVPVFQSQIAPEAAEQIRKRRPTASLVILNEHNPPEIDDKRGPNTQGE  
LQNASPKQRKQSVYTPPTIKGVKHLKGQNESAFPEEEEGTNEREEQRDH

>sp|Q5VWM6|PRA13\_HUMAN Putative PRAME family member 13 OS=Homo sapiens GN=PRAMEF13 PE=5  
SV=2

MSIQAPPRLLELAGQSLLRDQALSISAMEELPRVLYLPLFMEAFRRRHQTLTMVQAWP  
FTCLPLGSLMKTLETLKALLEGLHMLLTQKDRPRRRKLQVLDLRVDENFWARWPGAW  
ALSCFPETMSKRQTAEDRPRMGEHQPLKVFIDICLKEIPQDECLRYLFQWVYQRRGLVHL  
CCSKLVNLYLTPIKHLRKSLLKIYLNLSIQELEIHNMSWPRLIRKLRCYLKEMKTLGKLVFS  
RCHHSTSDNELEGRVTKFSSVFLGLEHLQLLKIKLITFFSGHLEQLIRCLQNPLENLEL  
TYGYLLEEDVKCLSQYPSLGYLKHLNLSYVLLFRISLEPLGALLEKIAASLETLILEGCQ  
IHYSQLSAILPGLSRCSQLTTFYFGRNCMSMGALKDLLRHTSGLSKLSLETYPAPPEESLN  
SLVRVNWEIFTPLRAELMCTLREVRQPKRIFIGPTPCPSCGSSSLEELEHLCC

>sp|O95522|PRA12\_HUMAN PRAME family member 12 OS=Homo sapiens GN=PRAMEF12 PE=3 SV=2

MSLQAPPRLLELAEQSLLRDALAIPTLEELPRELFPPLFMEAFTRCCETLTMTVQAWP  
FTCLPLGSLMKSCNLEIFRAVLEGLDALLAQKVRPRRWKLQVLDLRNVDENFWGIWGSAS  
ALSPEALSKRRTAGNCPRPGGQPLMVILDLCFKNGTLDECLTHFLEWGKQRKGLLVHCC  
KELQIFGIAIHRIIEVLNTVELDCIQEVEVCCPWELSILIRFAPYLGQMRNLRKLVLFNI  
HVSACIPLDRKEQFVIQFTSQFLKLDYFQKLYMHSVSFLEGHLDQLLRCLQAPLETVVM  
ECLLESIDLKHLWCPSIRQLKELDLRGITLTHFSPEPLSVLLEQAEATLQTLDEDCGI  
VDSQLSAILPALSRCSQLSTFSFCGNLISMAALENLLRHTVGLSKLSLELYPAPLESYDA  
QGALCWGRFSQLGAELMKTLDLRQPKIIVFSTVPCPRCGIRASYDLEPSHCLLNACCQG  
GFI

>sp|O60811|PRAM2\_HUMAN PRAME family member 2 OS=Homo sapiens GN=PRAMEF2 PE=2 SV=2

MSIQAPPRLLELAGQSLLRDQALSISAMEELPRVLYLPLFREAFAFRRRHQTLTMVQAWP  
FTCLPLVSLMKTLEPLKALLEGLHMLLTQKDRPRRWKLQVLDLRVDENFWARWPGAW  
ALSCFPEAMSKRQTAEDCPRTGEHQPLKVFIDICLKEIPQDECLRYLFQWVYQRRGLVHL  
CCSKLVNLYLTPIKYLRKSLLKIYINSIGELEIHNTCWPHLIRKLYCYLKEMKTLCKLVFS  
RCHHYTSDNELEGLVTRFTSVFLRLEHLQLLKIKLITFFSGHLEQLIRCLQNPLENLEL  
TCGNLLEEDLKCLSQFPSLGYLKHLNLSYVLLFRISLEPLGALLEKIAASLETLVLEGCQ  
IHYSQLSAILPGLSCCSQLTTFYFGSNCMSIDALKDLLRHTSGLSKLSLETYPAPPEESLN  
SLVRVNWEIFTPLRAELMCTLREFRQPKRIFIGPTPCPSCGSSPSELEHLCC

>sp|P30048|PRDX3\_HUMAN Thioredoxin-dependent peroxide reductase, mitochondrial OS=Homo  
sapiens GN=PRDX3 PE=1 SV=3

MAAAVGRLLRASVARHVSAPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSC

HAPAVTQHAPYFKGTAVVNGEFKDLSDDFKGYLVLFYPLDFTFVCPTEIVAFSDKAN  
EFHDVNCEVVAVSVDSHFSLAWINTPRKNGGLGHMNIALLSDLTKQISRDYGVLLGSG  
LALRGLFIIDPNGVIKLSVNDLPVGRSVEETLRLVKAFQYVETHGEVCPANWTPDSPTI  
KPSPAASKEYFQKVNQ

>sp|Q13162|PRDX4\_HUMAN Peroxiredoxin-4 OS=Homo sapiens GN=PRDX4 PE=1 SV=1

MEALPLLAATTPDHGRHRRLLLLPLLLFLLPAGAVQGWETEERPTREEECHFYAGGQVY  
PGEASRVSVADHSLHLSKAKISKAPYWEGTAVIDGEFKELKLTDIRGKYLVFFFYPLDF  
TFVCPTEIIAFGDRLEEFRSINTEVVACSVDSQFTHLAWINTPRRQGGGLPIRIPLLSDL  
THQISKDYGVIYLEDSCGHTLRGLFIIDDKGILRQITLNDLPVGRSVDETLRLVQAFQYTDK  
HGEVCPAGWKPGSETIIPDPAGKLKYFDKLN

>sp|Q86YN6|PRGC2\_HUMAN Peroxisome proliferator-activated receptor gamma coactivator 1-  
beta OS=Homo sapiens GN=PPARGC1B PE=1 SV=2

MAGNDCGALLDEELSSFFLNLYLADTQGGSGEEQLYADFPELDLSQLDASDFDSATCFGE  
LQWCPENSETEPNQYSPDDSELFQIDSENEALLAELTKTLDDIPEDDVGLAAFPALDGGD  
ALSCTSASPAPSSAPPSPAPEKPSAPAPEVDELSLLQKLLLATSYPTSSSDTQKEGTAWR  
QAGLRKSQRPCVKADSTQDKKAPMMQSQSRSCTELHKHLTSAQCCLQDRGLQPPCLQSP  
RLPAKEDKEPGEDCPSQPAPASPRDSLALGRADPGAPVSQEDMQAMVQLIRYMHTYCLP  
QRKLPPQTPEPLPKACSNPSQQVRSRPWSRHHSKASWAEFSILRELLAQDVLCDVSKPYR  
LATPVYASLTPRSRRPPKDSQASPGRPSSVEEVRIAASPKSTGPRPSLRPLRLEVKREV  
RRPARLQQEEEEEEEEEEEEEEEEEEWGRKRPGRGLPWTKLGRKLESSVCPVRRSR  
RLNPELGPWLTFADPELVPSEPQALPSLCLAPKAYDVERELGSPTDEDSGQDQQLLRGP  
QIPALESPCESGCGDMDPSCQLPPRDSRCLMLALSQSDPTFGKKSFEQTLTVELCG  
TAGLTPPTTPPYKPTTEEDPFKPDIKHSLGKEIALSLPSPEGLSLKATPGAHLKPKKHPE  
RSELLSHLRHATAQPASQAGQKRPFSCSFGDHDYCVLRPEGLVLRKVLRSWEPGSHLE  
DWPQQGAPWAEAPGREEDRSCDAGAPKSTLLRDHEIRASLTKHFGLLETALEEDL  
ASCKSPEYDTVFEDSSSSSGESSFLPEEEEEEEEEEEDEEEDSGVSPTCSDHCPYQSP  
PSKANRQLCSRSRSSSGSPCHSWPATRRNFRCESRGPCSDRTPSIRHARKRREKAIGE  
GRVVYIQNLSSDMSSRELKRRFEVFGIEECEVLTRNRRGEKYGFITYRCEHAALSLTK  
GAALRKRNEPSFQLSYGGLRHFCWPRYTDYDSNSEEALPASGKSKYEAMDFDSLLKEAQQ  
SLH

>sp|P49643|PRI2\_HUMAN DNA primase large subunit OS=Homo sapiens GN=PRIM2 PE=1 SV=2

MEFSGRKWRKLRLAGDQRNASYPHCLQFYLPSENISLIEFENLAIDRVKLLKSVENLG  
VSYVKGTEQYQSKLESELRLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWF  
IQQEMDLLRFRFSILPKDKIQDFLKDSQLQFEAISDEEKTIREQIVASSPSLSGLKLG  
ESIYKIPFADALDLFRGRKVYLEDFAYVPLKDIAIILNEFRAKLSKALALTARSLPAV  
QSDERLQPLLNLHLSHSYTGQDYSTQGNVGKISLDQIDLLSTKSFPFPCMRQLHKALRENHH  
LRHGGRMQYGLFLKIGLTLEQALQFWKQEFIKGKMDPKDFDKGYSYNIRHSFGKEGKRT  
DYTPFSCCLKIILSNPPSQGDYHGCPFRHSDPELLKQKLQSYKISPGGISQILDVKGTHY  
QVACQKYFEMIHNVDGCGFSLNHPNQFFCESQRILNGGKDIKKEPIQPETPQPKPSVQKT  
KDASSALASLNSSLEMDMEGLEDFSEDS

>sp|Q7Z3G6|PRIC2\_HUMAN Prickle-like protein 2 OS=Homo sapiens GN=PRICKLE2 PE=1 SV=2

MVTVMPLMEKTIKLMFDFQRNSTSDDDSGCALEEYAWVPPGLKPEQVHQYYSCLPEEK  
VPYVNSPGEKLRKQLLHLQLPHDNEVRYCNSLDEEEKRELKLFSSQRKRENLRGNVRP  
FPVTMTGAICEQCGGQINGGDIIVFASRAGHVCWHPPCFVCTVCNELLVDLIIFYQDGK

IYCGRHHAECKPRCAACDEIIFADECTEAEGRHHMKHFCCFECETVLGGQRYIMKEGR  
PYCCHCFESLYAEYCDTCAQHIGIDQGQMTYDGGHWHATETCFCCAHCCKSSLGRPFLPK  
QQGIFCSRACSAGEDPNGSDSSDAFQNAKESRRSAKIGKNKGKTEEPMLNQHSQQLQV  
SSNRLSADVDPLSLQMDMLSLSSQTPSLNRDPIWRSREEPYHYGNKMEQNQTQSPLQLLS  
QCNIRTSYSPGGQGAGAQPEMWGKHFSNPKRSSSLAMTGHAGSFIKECREDYYPGRRLRSQ  
ESYSDMSSQSFSETRGSIQVPKYEEEEEEEGGLSTQQCTRHPISSLKYTEDMTPTTEQTP  
RGSMSLALSANATGLSADGGAKRQEHLRSFSMPDLKDSGMNVSEKLSNMGTLNSSMQFR  
SAESVRSLLSAQQYQEMEGNLHQLSNPIGYRDLQSHGRMHQSFDGGMAGSKLPGQEGV  
RIQPMSERTRRRATSRDDNRRFRPHRSRRSRRSRSDNALHLASEREAISRLKDRPPLRAR  
EDYDQFMRQRSFQESMGHGSRRDLYGQCPRTVSDLALQNAFGDRWGPYFAEYDWCSTCSS  
SSESDNEGYFLGEPQPAPRLRYVTSDELLHKYSSYGLPKSSTLGGRGQLHSRKRQKSKN  
CIIS

>sp|Q2TBC4|PRIC4\_HUMAN Prickle-like protein 4 OS=Homo sapiens GN=PRICKLE4 PE=2 SV=2

MSPQGPAVLSLGLCLDTNAPNWTGLQTLQQLPPQDIDERYCLALGEEERAELQLFCA  
RRKQEALGQGVARLVLPKLEGTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACG  
QALINLIYFYHDGQLYCGRHHAELLRPRCPACDQLIFSWRCTEAEGQRWHENHFCCQDCA  
GPLGGGRYALPGGSPCCPSCFENRYS DAGSSWAGALEGQAFLGETGLDRTEGRDQTSVNS  
ATLSRTLLAAAGGSSLQTRGLPGSSPQQENRPGDKAEAPKGQEQCRLTIRDPKDTFPS  
TCSSSSDSEPEGFFLGERLPQSWKTPGSLQAEDSNASKTHCTMC

>sp|Q86XR5|PRIMA\_HUMAN Proline-rich membrane anchor 1 OS=Homo sapiens GN=PRIMA1 PE=1 SV=2

MLLRDLVLRGGCCWSSLLLHLCALHPLWGFVQVTHGEPQKSCSKVTDSCRHVCQCRPPPPPL  
PPPPPPPPPPRLLSAPAPNSTSCPTEESWWSGLVIIIAVCCASLVFLTVLVIICYKAIKR  
KPLRKDENGTSVAEYPMSASQSNKGVDVNNNAV

>sp|P21108|PRPS3\_HUMAN Ribose-phosphate pyrophosphokinase 3 OS=Homo sapiens GN=PRPS1L1  
PE=1 SV=2

MPNIKIFSGSSHQDLSQKIADRLGLELGKVVTKKFSNQETCVEIDESVRGEDVYIVQSGC  
GEINDSLMELLIMINACKIASASRVTA VPCFPYARQDKKDKSRSPISAKLVANMLSIAG  
ADHIITMDLHASQIQGFFDIPVDNLYAEPTVLKWIRENIPWKNCIIVSPDAGGAKRVTS  
IADQLNVDFALIHKERRKANEVDCIVLVGDVNDRAVAILVDDMADTCVTICLAADKLLSAG  
ATRVYAILTHGIFSGPAISRINTACFEAVVVTNTIPQDEKMKHCSKIRVIDISMILAEAI  
RRTHNGESVSYLFSHVPL

>sp|A6NJB7|PRR19\_HUMAN Proline-rich protein 19 OS=Homo sapiens GN=PRR19 PE=1 SV=1

MDTQGPVSQPFQPEKPGRVRRRKTRRERNKALVGSRRPLAHDPPVAIRDPPVVPTASK  
LVVITQGRLSREHRGLFNHEVKSLDVARLLSSGTLVPGSPTLPAKPSPPGRAQEPAPRS  
RDKENQVPGGSGPGPPSPELSGVGQLLAELQCQLSLPQAFPRRNLIQDARDAIVHTLQA  
CHGCVPDALVLRGCPPLPGAKPGVSEKMTPFWINSPDQVPEQERQRKQQTKEFTFP  
MPYTSSMPTAHRGSLAPPRGPWPYPFSLSSPSGTAWGPPTAFDLLKSIWL VATPPPPRP  
WGVGLPQLPQPSSPLLPRTSVLDWSPSPSPLPSLSWVVAQSSPEAWSFPPMRLY

>sp|Q9H6K5|PRR36\_HUMAN Proline-rich protein 36 OS=Homo sapiens GN=PRR36 PE=1 SV=2

MDNKRDKAKAGAAARTPAARAPGLLTPRPPGSPRPPPPVTPAALRVLGAAGAVGRKPLAE  
RAGGIGGATIPESAPRAGPTRSAGTSSRNPA SRPPASGRGERAPPAKNTSPGPVSSPGRA  
SGTTRPGPLGQKGLRISAEETVARGKATEAPKRSALSAGARRDTSGTPGTPSPAMARRS  
RAAGTEVGLPRPAPSARPRPTEGPRKSVSSASEHSTTEPSPAARRRPSAGGGLQRPASR  
SLSSSATPLSSPARSGPSARGTPRAPAHSPQPKPKGLQALRPPQVTPPRKDAAPALGPLS

SSPLATPSPSGTKARPVPPPDNAATPLPATLPSPPVTPPPAALQSQAPPTLPATPHSS  
SLTCQLATPLPLAPPSPSAPPSLQTLPSPPATPPSQVPPTQLIMSFPEAGVSSLATAAFV  
ASVSPSVSSPLQSMPTQANPALPSLPTLLSPLATPPLSAMSPLQGPVSPATSLGNSAFP  
LAALPQGLSALTTPPPQASPSPPSLQATPHTLATLPLQDSPLLATLPLQASPSPLTT  
VSLQDPPLVSPSLLASPPLQAPHPQAPPSMTTPPMQAPPSLQTIPPIQVPHSLTSPSLQ  
APPSPLALSSLQATTSLGSPTLQATHSFLTMSPRQTQASLISPSRPASTPPDSPPLQAPL  
SLPASPLQTSLSPAVSPLSSPLTIHPLQALSSLASHSPQAPLSSLIMPPLETQSSLAPP  
SLQTPPASLTTPPLENLPSLAPPPLQTASAPLTTPPLENLPSLAPPPLQTASAPLTTPHL  
ETPPCAPCPLQAPPSPLTTTPPETPSSIATPPPQAPPALASPPLQGLSPPLSPLATPP  
PQAPPALALPPLQAPPSPPASPLSPLATPSQAPNALAVHLLQAPFSPPPSPPVQAPFS  
PPASPPVSPSATPPSQAPPSLAAPPLQVPPSPPASPPMSPSATPPPQAPPPLAAPPLQVP  
PSPPASPPMSPSATPPPRVPPLLAAPPLQVPPSPPASPLMSPLAKPPPQAPPALATPPLQ  
ALPSPPASFPGQAPFSASPLMSPLATPPPQAPPVLAAPLLQVPPSPPASPTLQAPRRP  
PTPGPDTSVSGPRLTLALAPGPPPPSRSPSSTLSGPDLAGHSSSATSTPEELRGYDSGP  
EGGAAASPPDAELAACHPAAWSRGAPPLAFRGAPGAPLPWPPATGPGSADGLCTIYET  
EGPESATPAPGALDPGSPGTSGGKAAAGAGAGASSRSPKQARLGELPLGALQASVVQHL  
LSRTLLAAAEGAAGSGGGGGAEGGGVTGGARAALSDAELGRWAELLSPLDESASIT  
SVTSFSPDDVASPQGDWTVVEVETFH

>sp|Q9BQR3|PRS27\_HUMAN Serine protease 27 OS=Homo sapiens GN=PRSS27 PE=1 SV=1

MRRPAAVPLLLLLCFGSQRAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHFC  
GGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGTA  
SSADVALVELEAPVPFTNYILPVCLDPSVIFETGMNCWVTGWGSPSEEDLLPEPRILQK  
LAVPIIDTPKCNLLYSKDTFEGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS  
WLQAGVISWEGECARQNRPGVYIRVTAHHNWIHRIIPKLQFQPARLGGQK

>sp|A4D1T9|PRS37\_HUMAN Probable inactive serine protease 37 OS=Homo sapiens GN=PRSS37  
PE=2 SV=1

MKYVFYLGVLAGTFFFADSSVQKEDPAPYL VYLKSHFNPCVGVLIKPSWVLAPAHCYLPN  
LKVMLGNFKSRVRDGEQTINPIQIVRYWNYSHSAPQDDLMLIKLAKPAMLNPKVQPLTL  
ATTNVRPGTVCLLSGLDWSQENSGRHPDLRQNLEAPVMSDRECQKTEQGKSHRNSLCVKF  
VKVFSRIFGEVAVATVICKDKLQGIIEVGHFMGGDVGIYTNVYKYVSWIENTAKDK

>sp|A1L453|PRS38\_HUMAN Serine protease 38 OS=Homo sapiens GN=PRSS38 PE=2 SV=2

MAAPASVMGPLGPSALGLLLLLVVAPPRVAALVHRQPENQGISLTGSVACGRPSMEGKI  
LGGVPAPERKWPWQVSVHYAGLHVCSSILNEYWVLSAAHCFHRDKNIKIYDMYVGLVNL  
RVAGNHTQWYEVNRVILHPTYEMYHPIGGDVALVQLKTRIVFSESVLPVCLATPEVNLTS  
ANCWATGWGLVSKQGETSDELQEMQLPLILEPWCHLLYGHMSYIMPDMLCAGDILNAKT  
CEGDSGGPLVCEFNRSWLQIGIVSWGRGCSNPLYPGVYASVSYSKICDNIEITPTPAQ  
PAPALSPALGPTLSVLMAMLAGWSVL

>sp|Q7RTY9|PRS41\_HUMAN Serine protease 41 OS=Homo sapiens GN=PRSS41 PE=2 SV=1

MGARGALLLALLARAGLGKPGELGALQAGPGAARRPGGGGREEACGHREIHALVAGGVE  
SARGRWPWQASRLRRRHRCGGSLLSRRWVLSAAHCFQKHYPSEWTVQLGELTSRPTPW  
NLRAYSSRYKVQDIIIVNPDALGVLNRDIALRLASSVTYNAYIQPICIESSTFNFVHRPD  
CWVTGWGLISPSGTPLPPYNLREAQVTILNTRCNLYFEQPSSRSMIWDSMFCAGAEDG  
SVDTCKGDSGGPLVCDKDLWYQVGIVSWGMDCGQPNRPGVYTNIISVYFWHRRVMHSHT  
PRPNPSQLLLLLLALLWAP

>sp|Q7Z5A4|PRS42\_HUMAN Serine protease 42 OS=Homo sapiens GN=PRSS42 PE=2 SV=1

MSSGGGSRGLLAWLLLLQPWPGQNWAGMAAPRLPSPLLSEEGGENPEASPAPGPEAGPPL  
NLFTSFPGDSLLCGRTPLRIVGGVDAEEGRWPWQVSVRTKGRHICGGTLVTATWVLTAGH  
CISSRFHYSVKMGDRSVYNENTSVVVSVQRAVFHPKFSTVTTIRNDLALLQLQHPVNFTS  
NIQIPICIPQENFQVEGRTRCWVTGWGKTPEREKLASEILQDVDQYIMCYEENKIIQKAL  
SSTKDVIIKGMVCGYKEQGKDSCQGDSGGRLACEYNDTWVQVGIVSWGIGCGR

>sp|Q7RTY3|PRS45\_HUMAN Serine protease 45 OS=Homo sapiens GN=PRSS45 PE=2 SV=1

MTRHWPWEVSLRMENEHVC GGALIDPSWVVTAAHCIQGTKEYSVVLGTSKLQPMNFSRAL  
WVPVRDIIMHPKYWGRAFI MGDAVLHLQTPVTFSEYVQPICLPEPNFNLKVGTCWVTG  
WSQVKQRFSANSMLTPELQEA EVFIMDNKRCDRHYKKSFFPPVPLVLGDMICATNYGEN  
LCYGDSGGPLACEVEGRWILAGVLSWEKACVKAQNPGVYTRITKYTKWIKKQMSNGAFSG  
PCASACLLFLCWLLQPMGS

>sp|E5RG02|PRS46\_HUMAN Putative serine protease 46 OS=Homo sapiens GN=PRSS46 PE=5 SV=1

MACGPGDLQSLTSPLSSARLDYQPSIEGPWLRACGQTNVSCRVVKGLVEVGKWPWQVSI  
LFLGTIYICGSLIHQWVLTAAHCLQRFKDSLYSVMVG VHQRPENSTQLPLTRMVIHKD  
FSNLMSQDIALLLKLRDSISWSPFVQPVCLPNIKFKPSIGSMCWIGWGTGKKG

>sp|Q7RTY5|PRS48\_HUMAN Serine protease 48 OS=Homo sapiens GN=PRSS48 PE=2 SV=2

MGPAGCAFTLLLLLGISVCGQPVYSSRVVGGQDAAAGRWPWQVSLHFDHNFICGGLVSE  
RLILTAAHCIQPTWTTF SYTVWLGSITVGDSRKRKYVSKIVIH PKYQDTTADVALLKL  
SSQVTFTSAILPICLPSVT KQLAIPPCWVTGWGKVKESSDRDYHSALQEA E VPIIDRQA  
CEQLYNPIGIFLPALEPVIKEDKICAGDTQNMKDSCKGDSGGPLSCHIDGVWIQTGVVSW  
GLECGKSLPGVYTNVIYYQKWINATISRANNLDFSDFLFPIVLLSLALLRPSCAFGPNTI  
HRVGTVAEAVACIQGWEENAWRFSPRGR

>sp|P62191|PRS4\_HUMAN 26S protease regulatory subunit 4 OS=Homo sapiens GN=PSMC1 PE=1 SV=1

MGQSQSGGHGPGGGKKDDKDKKKKYEPVPTRVGKKKKKTKGPD AASKLPLVTPHTQCRL  
KLLKLERIKDYLLMEEEFIRNQEQMKPLEEKQEEERSKVDDL RGT PMSVGTLEEIIDNH  
AIVSTSVGSEHYVSILSFVDKDLLEPGCSVLLNHKVHAVIGVLMDDTDPLVTVMKVEKAP  
QETYADIGGLDNQIQEIKESVELPLTHPEYYEEMGIKPPKVILYGP PGTKTLLAKAVA  
NQTSATFLRVVGS ELIQKYLGDGPKLVRELFRVAEEHAPSIVFIDEIDAIGTKRYDSNSG  
GEREIQRMTLELLNQLDGFDSRGDVKVI MATNRIETLDPALIRPGRIDRKIEFPLPDEKT  
KKRIFQIHTSRMTLADDVTLDLIMAKDDL SGADIKAICTEAGLMALRERRMKVTNEDFK  
KSKENVLYKKQEGTPEGLYL

>sp|Q6UWY2|PRS57\_HUMAN Serine protease 57 OS=Homo sapiens GN=PRSS57 PE=1 SV=2

MGLGLRGWGRPLLTVATALMLPVKPPAGSWG AQII GGHEVTPHSR PYMASVRFGGQHHC  
GFLLRARWVVSAAHCFSHRDLRTGLVVLGAHVLSTA EPTQQVFGIDALTTHPDYHPMTHA  
NDICLLRLNGSAVLGPAVGLLRPPGRRARPPTAGTRCRVAGWGFVSDFEELPPGLMEAKV  
RVLDPDVCNSSWKGHLTLTMLCTRSGDSHRRGFCSADSGGPLVCRNRAHGLVSFSGLWCG  
DPKTPDVYTQVSAFVAWIWDVVRSSPQPGPLPGTTRPPGEAA

>sp|P43686|PRS6B\_HUMAN 26S protease regulatory subunit 6B OS=Homo sapiens GN=PSMC4 PE=1 SV=2

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEY  
IKDEQKNLKKEFLHAQE EVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYVRI LSTID  
RELLKPNASVALHKHSNALVDVLPPEADSSIMMLTSDQKPDV MYADIGGMDIQKQEVREA

VELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTAAFIRVVGSEFVQKYL  
GEGPRMVRDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD  
QNVNVKVMATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEEDL  
EDYVARPDKISGADINSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

>sp|P25787|PSA2\_HUMAN Proteasome subunit alpha type-2 OS=Homo sapiens GN=PSMA2 PE=1 SV=2

MAERGYSFSLTTFSPSGKLQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDER  
SVHKVEPITKHIGLVYSGMPDYRVLVHRARKLAQQYYLVYQEPITPAQLVQRVASVMQE  
YTQSGGVRPFGVSLLICGWNEGRPYLFQSDPSGAYFAWKATAMGKNYVNGKTFLEKRYNE  
DLELEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTEVKDYLAIA

>sp|AOJP26|POTB3\_HUMAN POTE ankyrin domain family member B3 OS=Homo sapiens GN=POTEB3  
PE=2 SV=2

MVAEVCMPAASAVKKPFDLRSKMGKWCHHRFPCCRGSGKSNMGTSGDHDDSFMKTLRSK  
MGKCCHHCFPCCRGSGTNSVGTSGDHDSFMKTLRSKMGKWCCHCFPCCRGSGKSNVGTW  
GDYDDSAFMEPRYHVRREDLDKLHRAAWGKVPRKDLIVMLRDTDMNKRDKQKRTALHLA  
SANGNSEVVQLLLDRRCQLNVLNKKRTALIKAVQCQEDECVLMLLEHGADGNIQDEYGN  
TALHYAIYNEDKLMAKALLYGADIESKNKCGLTPLLLGVHEKQKQVVKFLIKKANLNA  
LDRYGR TALILAVCCGSASIVNLLLEQNVDVSSQDLSGQTAREYAVSSHHHVICELLSY  
KEKQMLKISSSENSPEQDLKLTSEESQRLKVSSENSQPEKMSQEPEINKDCDREVEEEIK  
KHGSPVGLPENLTNGASAGNGDDGLIPQRKSRKPENQQFPDTENEEYHSDEQNDTQKQL  
SEEQNTGISQDEILTNNKQKQIEVAEKEMNSKLSLSHKKEEDLLRENSMLREEIAMLRLEL  
DETKHQNLRENKILEEIESVKEKLLKAIQLNEEALTKTSI

>sp|P48454|PP2BC\_HUMAN Serine/threonine-protein phosphatase 2B catalytic subunit gamma  
isoform OS=Homo sapiens GN=PPP3CC PE=1 SV=3

MSGRRFHLSTTDRIKAVFPPTQRLTFKEVFENGKPKVDVLKNHLVKEGRLEEEVALKI  
INDGAAILRQEKTMI EVDAPITVCGDIHGQFFDLMKLFEVGGSPSNTRYLFLGDYVDRGY  
FSIECVLYLWSLKINHPKTLFLLRGNHECRHLTDYFTFKQECRIKYSEQVYDACMETFDC  
LPLAALLNQFLCVHGGMSPEITSLDDIRKLD RFTPPAFGPVCDLLWSDPSEDYGN EKT  
LEHYTHNTVRGCSYFYSYPAVCEFLQNNLLSII RAHEAQDAGYRMYRKSQATGFPSLIT  
IFSAPNYLDVYNKAAVLKYENNMNIRQFNCSPPHYWLPNFMDFVTSWLPFVGEKVTEM  
LVNVLNICSDDDELISDDEAEGSTTVRKEIIRNKIRAIGKMARVFSILRQESVLT LKGL  
TPTGTLPGLVLSGGKQT IETATVEAVEAREAIRGFSLQHKIRSFEEARGLDRINERMPPR  
KDSIHAGGPMKSVTSAHSHAAHRSDQGKKAHS

>sp|A8MPX8|PP2D1\_HUMAN Protein phosphatase 2C-like domain-containing protein 1 OS=Homo  
sapiens GN=PP2D1 PE=2 SV=2

MSTNNALRVFWKSREWNMKTSTFDSD E DILLPKRKRFRKKKSRPVRHTKRHEEEQVYEQ  
GTTLPCSICKHEIDL TGIFLHKQHVALATLGFQWMGRKKPQPSVIAVQRQFMISKLLSS  
FMFTEKTLQSINNAFELLWKKQIPAYYKIFDNIDRSVIYSQKICHLLIKGVGICEDRNT  
WKADMNDKFTVVSNGKNPNVCFGLFDGHGASAAELTSMELPVLLHQLSKFDPSYQM  
TTDEQQIINSFYTVFREEYAAIEDLFSAINKTEAVRCEYEDTHKAFKAFWRMDRLGLG  
RKEVSRVQWSGCSAVTCILEGPKPSPYAHKNWKRKNTHDGLAESSPSQEMPKIISGILHV  
ANTGNVQAVLCRNGKGFCLTKEHTTRNTNERRRILQNGAVISSNEPYGLVEGQVKTRGL  
GFHGNLKLKKSIIIPAPQTISVPIDDLQFLIVATNGLWEVLDKEEVTALAMTTFHMYKET  
YCP IIPNKSPSKGPLLFSTSEPNLTKSQSNIHVL FQYKSVSEVRVSTTNSKENLSDSNYS  
KYCIYNPENVETFPAETTHR KPCSEKVTDRPTSVNDVATNEKESDTKSFYEGAAEYVSHE

LVNAALLAGSRDNITVMVIFLNGSEYQLLT

>sp|P60510|PP4C\_HUMAN Serine/threonine-protein phosphatase 4 catalytic subunit OS=Homo sapiens GN=PPP4C PE=1 SV=1

MAEISDLDRQIEQLRRCELKESEVKALCAKAREILVEESNVQRVDSPTVCGDIHGQFY  
DLKELFRVGGDVPETNYLFMGDFVDRGFYSVETFLLLLALKVRYPDRLTLIRGNHESRQI  
TQVYGFYDECLRKYGSVTVWRYCTEIFDYLSLSAIIIDGKIFCVHGGLSPSIQTLDQIRTI  
DRKQEVPHDGPMDLLWSDPEDTTGWGVSPRGAGYLFGSDVVAQFNAANDIDMICRAHQL  
VMEGYKWHFNETVLTWVSAPNYCYRCGNVAAILELDEHLQKDFIIFEAAPQETRGIPSKK  
PVADYFL

>sp|Q8TF05|PP4R1\_HUMAN Serine/threonine-protein phosphatase 4 regulatory subunit 1 OS=Homo sapiens GN=PPP4R1 PE=1 SV=1

MADLSLLQEDLQEDADGFGVDYSSSDVIIIPSALDFVSQDEMLTPLGRLDKYAASENI  
FNRQMVARSLDLTLREVCDDEDCIAVLERISRLADDSEPTVRAELMEQVPHIALFCQEN  
RPSIPYAFSKFLLPIVVRYLADQNNQVRKTSQAALLALLEQELIERFDVETKVCPLIEL  
TAPDSNDDVKTEAVAIMCKMAPMVGKDITERLILPRFCMCCDCRMFHRKVCAANFGDI  
CSVVGQQATEEMLLPRFFQLCSDNVWGVKACAECFMAVSCATCQEIRRTKLSALFINLI  
SDPSRWVRQAQFSLGPFISTFANPSSSGQYFKEESKSSEEMSVENKNRTRDQEAPEDEVQ  
VRPEDTPSDLSVSNSSVILENTMEDHAAEASGKPLGEISVPLDSSLLCTLSSESHQEAAS  
NENDKKPGNYKSMRPEVGTTSQDSALLDQELYNSFHFWRTPLEIDLDIELEQNSGGKP  
SPEGPEEESEGPVSSPNITMATRKELEEMIENTLEPHIDDPDKAQEVLSAALRASSLD  
AHEETISIEKRSDLQDELINELPNCKINQEDSVPLISDAVENMDSTLHYIHSDSDLSNN  
SSFSPDEERRTKVQDVVPQALLDQYLSMTDPSRAQTVDTETIAKHCAYS LPGVALTLGRQN  
WHCLRETYETLASDMQWKVRRTLAFSIHELAVILGDQLTAADLVPIFNGFLKDLDEVRI  
VLKHLHDFLKLHIDKRREYLYQLQEFLVTDNSRNWRFRAELAEQLILLELYSPRDVYD  
YLRPIALNLCADKVSSVRWISYKLVSEMVKKLHAATPPTFGVDLINELVENFGRCPKWSG  
RQAFVFCQTVIEDDCLPMDQFAVHLMPHLLTLANDRVPNVRLAKTLRQTLLEKDYFL  
ASASCHQEAVEQTIMALQMDRSDVKYFASIH PASTKISEDAMSTASSTY

>sp|Q07869|PPARA\_HUMAN Peroxisome proliferator-activated receptor alpha OS=Homo sapiens GN=PPARA PE=1 SV=2

MVDTESPLCPLSPLAAGDLESPLSEEFLEMGNIQEISQSIGEDSSGSFGFTEYQYLGSC  
PGSDGSVITDTLSPASSSSVTYPVVPVGSVDESPSGALNIECRICGDKASGYHYGVHACE  
GCKGFFRRTIRLKLVDKCDRSCKIQKKNRNCQYCRFHKCLSVGMSHNAIRFGRMPRSE  
KAKLKAEILTCEHDIEDSETADLKS LAKRIYEAYLKNFNMNKVKARVILSGKASNNPPFV  
IHDMETLCMAEKTIVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELEFAKAIPGFANL  
DLNDQVTLLKYGVYEAIFAMLSVMNKDGMLVAYGNGFITREFLKSRLKPFCDIMEPKFD  
FAMKFNALELDDSDISLFVAAIICCGDRPGLLVNGHIEKMQEGIVHVLRLHLQSNHPDDI  
FLFPKLLQKMADLRQLVTEHAQLVQIIKKTESDAALHPLLQEIYRDMY

>sp|Q8NEY8|PPHLN\_HUMAN Periphilin-1 OS=Homo sapiens GN=PPHLN1 PE=1 SV=2

MWSEGRYEYERIPRERAPPRSHPSDGYNRLVNIVPKKPPLDRPGECSYNRYSHVDYRD  
YDEGRSFSHRRSGPPHRGDESGYRWRTRDDHSASRQPEYRDMRDGFRKRSFYSSHYARER  
SPYKRDNTFFRESPVGRKDSPHSRSGSSVSSRSYSPERSKSYSFHSQHRKSVRPGASYK  
RQNEGNPERDKERPVSQSKTSRDTSPSSGSAVSSSKVLDKPSRLTEKELAEASKWAAEK  
LEKSDESNLPEISEYEAGSTAPLFTDQPEEPESNTTHGIELFEDSQLTTRSKAIAASKTKE  
IEQVYRQDCETFGMVVKMLIEKDPSLEKSIQFALRQNLHEIESAGQTWQQVPPVRNTEMD



HDGTPENEGEETAQSAPQPPQAPQLQPRKKRVRRTTQLRRTTGAPDITWGMLKKTQEAE  
ERILLRTQTPFTPENLFLAMLSVVHCNSRKDVKPENKQ

>sp|P45877|PPIC\_HUMAN Peptidyl-prolyl cis-trans isomerase C OS=Homo sapiens GN=PPIC PE=1  
SV=1

MGPGPRLLLPLVLCVGLGALVFSSGAEGFRKRGPSVTAKVFFDVRIGDKDVGRIVIGLFG  
KVVPKTVENFVALATGEKGYGYKGSKFHRV IKDFMIQGGDITTDGDTGGVSIYGETFPDE  
NFKLKHYGIGVWSMANAGPDTNGSQFFITLTKPTWLDGKHVVFGKVIDGMTVVHSIELQA  
TDGHDRPLTNCSI INSGKIDVKTPFVVEIADW

>sp|P26678|PPLA\_HUMAN Cardiac phospholamban OS=Homo sapiens GN=PLN PE=1 SV=1  
MEKVQYLTRSAIRRASTIEMPQARQKLQNLFINFCLILICLLICIIVMLL

>sp|Q8WY54|PPM1E\_HUMAN Protein phosphatase 1E OS=Homo sapiens GN=PPM1E PE=1 SV=2

MAGCIPEEKTYRRFLELFLGEFRGPCGGGEPEPEPEPEPEPESEPEPEPELVEAEAAE  
ASVEEPGEEAATVAATEEGDQEQDPEPEEEAAVEGEEEEEGAATAAAAPGHSAPPPPPQ  
LPPLPLPRPLSERITPRPLSERITREEVEGESLDLCLQLYKYNCPFLAAALARATSD  
EVLQSDLSAHYIPKETDGTGTEGVEIETVKLARSVFSKLHEICCSWVKDFPLRRRPQLYYE  
TSIHAIAKNMRRKMEDKHVCIPDFNMLFNLEDQEEQAYFAVFDGHGGVDAAIYASIHHLVN  
LVRQEMFPHDPAEALCRAFRVTDERFVQKAARESLRCGTTGVVTFIRGNMLHVAWVGDSQ  
VMLVRKGQAVELMKPHKPDREDEKQRIEALGGCVVWFGAWRVNGSLSVSRAIGDAEHKPY  
ICGDADSASTVLDGTEDYLILACDGFYDTVNPDEAVKVVSDDLKENNGDSSMVAHKLVAS  
ARDAGSSDNITVIVVFLRDMNKAVNVSEESDWTENSFQGGQEDGGDDKENHGECKRPWPQ  
HQCSAPADLGVDGRVDSFTDRTSLSPGSQINVLEDPGYLDLTQIEASKPHSAQFLLPVEM  
FGPGAPKKANLINELMMEKKSQSSLPWESGAGEFPTAFNLGSTGEQIYRMQSLSPVCSG  
LENEQFKSPGNRVSRLSHLRHHYSKKWHRFRFPKFSFLSAQEPSHKIGTSLSSLTGSG  
KRNRIRSSLPWRQNSWKGYSENMRKLKTHDIPCDLPWSYKIE

>sp|P49593|PPM1F\_HUMAN Protein phosphatase 1F OS=Homo sapiens GN=PPM1F PE=1 SV=3

MSSGAPQKSSPMASGAEEETPGFLDTLLQDFPALLNPEDPLPWKAPGTVLSQEEVEGELAE  
LAMGFLGSRKAPPPLAAALAHEAVSQLLQTDLSEFRKLPREEEEEEDDDDEEEKAPVTLL  
DAQSLAQSFNRLWEVAGQWQKQVPLAARASQRQWLVS IHAIRNTRRKMEDRHVSLPSFN  
QLFGLSDPVNRAYFAVFDGHGGVDAARYAAVHVHTNAARQPELPTDPEGALREAFRRTDQ  
MFLRKAKRERLQSGTTGVCALIGATLHVAVLGDSQVILVQQGQVVKLMEPHRPERQDEK  
ARIEALGGFVSHMDCWRVNGTLAVSRAIGDVFQKPYVSGEADAASRALTGSEDYLLACD  
GFFDVVPHQEVVGLVQSHLTRQQGSLRVAEELVAAARERGSHDNITVMVVFLRDPQELL  
EGGNQGEQDPQAEGRRQDLPSLPEPETQAPPRS

>sp|Q9ULR3|PPM1H\_HUMAN Protein phosphatase 1H OS=Homo sapiens GN=PPM1H PE=1 SV=2

MLTRVKSAVANFMGGIMAGSSGSEHGGGSCGSDLPFRFPYGRPEFLGLSQDEVECSADH  
IARPILILKETRRLPWATGYAEVINAGKSTHNEDQASCEVLTVKKKAGAVTSTPNRNSSK  
RRSSLPNGEGLQKENSESEGVSHYWSLFDGHAGSAAVVASRLLQHHITEQLQDIVDI  
LKNSAVLPPTCLGEEPENTPANSRTLTRAASLRGGVGAPGSPSTPPTRFFTEKKIPHECL  
VIGALESFAKEMDLQIERERSSYNISGGCTALIVICLLGKLYVANAGDSRAIIIRNGEII  
PMSSEFTPETERQLQYLAFMQPHLLGNEFTHLEFPRRVQRKELGKKMLYRDFNMTGWAY  
KTIEDEDLKFPLIYEGGKKARVMATIGVTRGLGDHDLKVHDSNIYIKPFLSSAPEVRIYD  
LSKYDHGSDDVLILATDGLWDVLSNEEVAEAITQFLPNCDDPDPHRYTLAAQDLVMRARG  
VLKDRGWRISNDRLGSGDDISVYVIPLIHGNKLS

>sp|Q9Y570|PPME1\_HUMAN Protein phosphatase methylesterase 1 OS=Homo sapiens GN=PPME1 PE=1 SV=3

MSALEKSMHLGRLPSPPLPGSGGSQSGAKMRMGPRKRDFSPVPWSQYFESMEDVEVEN  
ETGKDTFRVYKSGSEGPLVLLLLHGGGHSALSWAVFTAAIISRVQCRIVALDLRSHGETKV  
KNPEDLSAETMAKDVGNVVEAMYGDLPPPIMLIGHSMGGAIHVHTASSNLVPSLLGLCMI  
DVVEGTAMDALNSMQNFLRGRPKTFKSLNAIEWSVKSGQIRNLESARVSMVGQVKQCEG  
ITSPEGSKSIVEGIIEEEEEEDEEGSESISKRRKEDDMETKKDHPYTWRIELAKTEKYWDG  
WFRGLSNLFLSCPIPKLLLLAGVDRLDKDLTIGQMKGKFMQVLPQCGHAVHEDAPDKVA  
EAVATFLIRHRFAEPIGGFQCVFPGC

>sp|P53041|PPP5\_HUMAN Serine/threonine-protein phosphatase 5 OS=Homo sapiens GN=PPP5C PE=1 SV=1

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPS  
NAIYYGNRSLAYLRTECYGALGDATRAIELDKKYIKGYRRAASNMALGKFRAALRDYE  
TVVKVPHDKDAKMKYQECNKIVKQKAFERAIAGDEHKRSVVDSLDIESMTIEDEYSGPK  
LEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQKVELSKLSTLVETTLKETEKITVC  
GDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTLFGFKLLYPDHFHLL  
RGNHETDNMNQIYGFEDEVKAKYTAQMYELFSEVFEWLPLAQCSINGKVLIMHGGLFSEDG  
VTLDDIRKIERNRQPPDSGPMCDLLWSDPPQPNGRSISKRGVSCQFGPDVTKAFLEENNL  
DYIIRSHEVKAEGYEVAHGGRCVTVFSAPNYCDQMGNKASYIHLQGSDLRPQFHQFTAVP  
HPNVKPMAYANTLLQLGMM

>sp|Q13522|PPR1A\_HUMAN Protein phosphatase 1 regulatory subunit 1A OS=Homo sapiens GN=PPP1R1A PE=1 SV=2

MEQDNSPRKIQFTVPLLEPHLDPEAAEQIRRRRPTPATLVLTSDQSSPEIDEDRIPNPHL  
KSTLAMSPRQRKKMTRITPTMKELQMMVEHHLGQQQQGEEPEGAESTETQESRPPGIPD  
TEVESRLGTSGTAKKTAECIPKTHERGSKEPSTKEPSTHIPPLDSKGANSV

>sp|Q9UQK1|PPR3C\_HUMAN Protein phosphatase 1 regulatory subunit 3C OS=Homo sapiens GN=PPP1R3C PE=1 SV=2

MSCTRMIVQLDPRPLTSSVMPVDVAMRLCLAHSPPVKSFLGPYDEFQRRHFVNKLKPLKS  
CLNIKHAKSQNDWKCSHNQAKKRNVFADSKGLSLTAIHVFSDLPEEPAWDLQFDLLDLN  
DISSALKHHEEKNLILDFPQPSTDYLSFRSHFQKNFVCLENCSLQERTVTGTVKKNVSF  
EKKVQIRITFDSWKNYTDVDCVYMKNVYGGTSDTFSFAIDLPPVIPTEQKIEFCISYHA  
NGQVFDNNDGQNYRIVHVQWKPDGVQTQMAPQDCAFHQTSPKTELESTIFGSPRLASGL  
FPEWQSWGRMENLASR

>sp|Q5VV67|PPRC1\_HUMAN Peroxisome proliferator-activated receptor gamma coactivator-related protein 1 OS=Homo sapiens GN=PPRC1 PE=1 SV=1

MAARRGRRDGVAPPPSGGPGDPGGGARGSGWGSRSQAPYGTGAVSGGEQVLLHEEAGD  
SGFVLSRLGPSLRDKDLEMEELMLQDETLLGTMQSYMDASLISLIEDFGSLGESRLSLE  
DQNEVSLLTALTEILDNADSENLSPFDSIPDSELLVSPREGSSLHKLTLSTRTPPERDLI  
TPVDPLGPSTGSSRSGVEMSLPDPSWDFSPPSFLETSSPKLPSWRPPRSRPRWGQSPPP  
QQRSDGEEEEEVASFSGQILAGELDNCVSSIPDFPMHLACPEEEDKATAAEMAVPAAGDE  
SISSLSELVRAMHPYCLPNLTHLASLEDELQEPPDDLTLPEGCVVLEIVGQAATAGDDLE  
IPVVVRQVSPGPRPVLLDDSLTSSALQLLMPITLESSETEAAVPKVTLCSEKEGLSLNSEE  
KLDSACLLKPREVVEPVVPKEPQNPPANAAPGSQRARKGRKKKSKEQPAACVEGYARRLR  
SSSRGQSTVGTEVTSQVDNLQKQPQEELQKESGPLQKGKGPRAWARAWAAALENSSPKNL

ERSAGQSSPAKEGPLDLYPKLADTIQTNP I PTHLSLVDSAQASMPVDSVEADPTAVGPV  
LAGVPVPDPLVDLASTSSELVEPLPAEPVLINPVLADSAAVDPAVVPISDNLPPVDAVP  
SGPAPVDLALVDPVPNDLTPVDVPLVKSRPTDPRRGAVSSALGGSAPQLLVESESLDPPK  
TIIPEVKEVVDLSKIESGTSATTHEARPRLSLSEYRRRRQQRQAETEERSQPPTGKWP  
SLPETPTGLADIPCLVIPPAPAKKTALQRSPETPLEICLVPGPSPASPSPEPPVSKPVA  
SSPTEQVPSQEMPLLARSPPVQSVSPAVTPPSMSAALFPFAGGLGMPPSLPPPPLQPP  
SLPLSMGPVLPDPFTHYAPLPSWPCYPHVSPSGYPCLPPPPTVPLVSGTPGAYAVPPTCS  
VPWAPPPAPVSPYSSCTYGPLGWGPGQHAPFWSTVPPPPLPPASIGRAVPQPKMESRG  
TPAGPPENVLPLSMAPPLSLGLPGHGAPQTEPTKVEVKVPASPHPKHKVSALVQSPQMK  
ALACVSAEGVTVEEPASERLKPETQETRPREKPPLPATKAVTPTRQSTVPKLPVHPARL  
RKLSFLPTPRTQGSSEDEVQAFISEIGIEASDLSLLEQFEKSEAKKECPPAPADSLAVG  
NSGGVDIPQEKRPDLRLQAPELANVAGLTPPATPPHQLWKPLAAVSLAKAKSPKSTAQE  
GTLKPEGVTEAKHPAAVRLQEGVHGSPRVHVGSGDHDYCVRSRTPPKKMPALV IPEVGSR  
WNVKRHQDITIKPVLSLGPAAPPPPCIAASREPLDHRTSSEQADPSAPCLAPSSLLSPEA  
SPCRNDMNRTPPEPSAKQRSMRCYRKACRSASPSSQGWQRRGRNSRSVSSGSNRTSEA  
SSSSSSSSSSSRSRSLSPPHKRWRSSCSSSGRSRRCSSSSSSSSSSSSSSSSSSSR  
SRSRSPSPRRRSDRRRRYSSYRSHDHYQRQV LQKERAIEERRVVF I G KIPGRMTRSELK  
QRFVSFGEIEECTIHFRVQGDNYGFVTYRYAEEAFAAIESGHKLRQADEQPFDL CFGGRR  
QFCKRSYSDLDSNREDFDPAPVKS KFD SLDFDTLLKQAQKNLRR

>sp|P50897|PPT1\_HUMAN Palmitoyl-protein thioesterase 1 OS=Homo sapiens GN=PPT1 PE=1 SV=1

MASPGCLWLLAVALLPWTCASRALQHLDPPAPLPLVIWHGMGDSCCNPLSMGAIKKMVEK  
KIPGIYVLSLEIGKTLMEDVENSFFLNVNSQVTTVCQALAKDPKLQQGYNAMGFSQGGQF  
LRAVAQRCPSPMINLISVGGQHQQGVFGLPRCPGESSHICDFIRKTLNAGAYSKVVQERL  
VQA EYWHDP I KEDVYRNHSIFLADINQERGINESYKKNLMALKKFVMVKFLNDSIVDPVD  
SEWFGFYRSGQAKETIPLQETSLYTQDRLGLKEMDNAGQLVFLATEGDHLQLSEEFYAH  
IIPFLG

>sp|Q9UMR5|PPT2\_HUMAN Lysosomal thioesterase PPT2 OS=Homo sapiens GN=PPT2 PE=1 SV=4

MLGLCGQRLPAAWVLLLLPFLPLLLLAAPAPHRASYKPVIVHGLFDSSYSFRHLL EYIN  
ETHPGTVVTVLDFDGRESLRPLWEQVQGFREAVVPIMAKAPQGVHLICYSQGGLVCRAL  
LSVMDDHNVD SFISLSSPQMGGYGD TDY LKWL FPTSMRSNLYRICYSPWGQEF SICNYWH  
DPHDDLYLNASSFLALINGERDHPNATVWRKNFLRVGHLVLIGGPDDGVITPWQSSFFG  
FYDANETVLEEEQLVYL RDSFGLKTLLARGAIVRCPMAGISHTAWHSNRTL YETCIEPW  
LS

>sp|Q8N2U9|PQLC1\_HUMAN PQ-loop repeat-containing protein 1 OS=Homo sapiens GN=PQLC1 PE=1 SV=1

MEAEGLDWLLVPLHQLVSWGAAAAMVFGGVVPYVPQYRDIRRTQNADGFSTYVCLVLLVA  
NILRILFWFGRRFESPLLWQSAIMILTMLMLKLCTEVRVANELNARRRSFTAADSKDEE  
VKVAPRRSFLDFDPHHFWQSSFS DYVQCVLAFTGVAGYITYLSIDSALFVETLGFLAVL  
TEAMLGVPQLYRNHRHQSTEGMSIKMVLMTSGDAFKTAYFLLKGAPLQFSVCGLLQVLV  
DLAILGQAYAFARHPQKPAPHAVHPTGT KAL

>sp|Q9BU68|PR15L\_HUMAN Proline-rich protein 15-like protein OS=Homo sapiens GN=PRR15L PE=3 SV=1

MTTEIGWWKLTFLRKKKSTPKVLYEIPDTYAQTEGDAEPPRPDAGGPNSDFNTRLEKIVD  
KSTKGKHVKVSN SGRFKEKKKVRATLAENPNLFD DHEEGRSSK

>sp|P86481|PR20B\_HUMAN Proline-rich protein 20B OS=Homo sapiens GN=PRR20B PE=4 SV=1  
MEEPRPSKRLRSMAPNQASGGPPPEPGCCVADPEGSVEADGPAQPAQPAKPIAYVKPFRR  
QPPARPESPPPAERGRRRGSSRRPGRGRRRAGPRGDAGQRQGAEGLMAPDVHIQLDHHG  
EPGHQGEPEITETAFAFSLSETGPPPGTVQEGPGPDVAQPELGFQEPPAAPGPQAVDWQPV  
LTLYPCIGFRALGDSAVLQVIQTPQGTYVQGVFVFLTDIAY

>sp|P86480|PR20D\_HUMAN Proline-rich protein 20D OS=Homo sapiens GN=PRR20D PE=4 SV=1  
MEEPRPSKRLRSMAPNQASGGPPPEPGCCVADPEGSVEADGPAQPAQPAKPIAYVKPFRR  
QPPARPESPPPAERGRRRGSSRRPGRGRRRAGPRGDAGQRQGAEGLMAPDVHIQLDHHG  
EPGHQGEPEITETAFAFSLSETGPPPGTVQEGPGPDVAQPELGFQEPPAAPGPQAVDWQPV  
LTLYPCIGFRALGDSAVLQVIQTPQGTYVQGVFVFLTDIAY

>sp|Q6ZRT6|PR23B\_HUMAN Proline-rich protein 23B OS=Homo sapiens GN=PRR23B PE=2 SV=1  
MVSRRSPSAFPAPWWGQQPGGPGPAKRLRLEEPAGPEPRAAPSLEDPAAGDPAVDALTSI  
VVLAAGCALRVPLDDVDLVLEPAPTSILRVSLGGHTLILIEVLLSSVDERSGAQHDSSA  
GLEVDVFLGAVREDVVVELEFCASVPEIAAQEEAYEEDADPEFPELRMDSPGSAAGLYP  
SSRSMFIPYREGPIEPCALAPNPSSERRSPRIFDLEFRLLPEVPSSPLQPLPPSPCVG  
SPGPHARSPLPERPPCKARRRLFQA

>sp|Q6NWX9|PR40B\_HUMAN Pre-mRNA-processing factor 40 homolog B OS=Homo sapiens GN=PRPF40B  
PE=1 SV=1

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EKPSVLKSKAELLSQCPWKEYKSDTGKPYYYNNQSKESRWTRPKDLDDLEVLVKQEAAG  
KQQQLPQTLQPPQPQPDPPVPPGTPVPTGLEPEPGGSEDCDVLEATQPLEQGFL  
QQLEEGPSSSGHQHPQQEEEEESKPEPERSGLSWSNREKAKQAFKELLRDKAVPSNASWEQ  
AMKVVTDPRYSALPKLSEKKQAFNAYKAQREKEEKEEARLRAKEAKQTLQHFLEQHERM  
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LDGMSSVNFQTTWSAQQYLMNPSFAQDHQLQNMKDICALCFEEHIALEREEEEERE  
RARLRERRQQRKNREAFQTFDELHETGQLHSMSTWMELYPVSTDVRFANMLGQPGSTP  
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KLTFNSLLEKAEAREEREKEEARRMRREAFAFRSMLRQAVPALELGTAWEEVRERFVCD  
SAFEQITLESERIRLFRFLQVLEQTECQHLHTKGRKHGRKGKKHHHKRSHSPSGSESEE  
EELPPPSLRPPKRRRRNPSESGSEPSSSLDSVESGGAALGGRGSPSSHLLGADHGLRKAK  
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KTGWDTSESELSEGELEERRRRTLLQQLDHQA

>sp|A6NGN4|PRA25\_HUMAN PRAME family member 25 OS=Homo sapiens GN=PRAMEF25 PE=3 SV=2  
MKMSIRTPRLLELAGRSVLRDQALAMSTLEELPTLFPPLFMEAFSRRRCEALKLMVQA  
WPFRRPLRPLIKMPCLETQAVLNGLDALLTHGVRPRRWKLQVLDLQDVCENFWMVWSE  
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HLCKKILKILGMPFRNIRSILKMVNLDICIQEVVNCKWVLPILTQFTPYLGHMRLQKLV  
LSHMDVSRYVSPEQKEIVTQFTTQFLKLHCLQKLYMNSVSFLEGHLDQLLSCLKTSKLV  
LTITNCVLLSEDLKHLSCPSISQLKTLDSLGIKRLTNYSLVPLQILLEKVAATLEYLDLD  
DCGIIDSQVNAILPALSRFCFELNTFSFCGNPISMATLENLLSHTIILKNLCLELYPAPRE  
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>sp|O60831|PRAF2\_HUMAN PRA1 family protein 2 OS=Homo sapiens GN=PRAF2 PE=1 SV=1  
MSEVRLPPLRALDDFVLGSARLAAPDPCDPQRWCHRVINNLLYYQTNYLCCFGIGLALAG

YVRPLHTLLSALVVAVALGVLVWAAETRAAVRRCRRSHPAACLA AVLAVGLLVLVWVAGGA  
CTFLFSIAGPVLLILVHASLRLRLNKNKIENKIESIGLKRTPMGLLLEALGQEAEAGS

>sp|Q96NZ9|PRAP1\_HUMAN Proline-rich acidic protein 1 OS=Homo sapiens GN=PRAP1 PE=1 SV=2  
MRLLLLVTSLVVLLWEAGAVPAPKVP IKMQVKHWPSEQDPEKAWGARVVEPPEKDDQLV  
VLFPVQKPKLLTTEEKPRGQGRGPI LPGTKAWMETEDTLGHVLSPEPDHDSLYHPPPEED  
QGEERPRLVWMPNHQVLLGPEEDQDHIYHPQ

>sp|P10163|PRB4\_HUMAN Basic salivary proline-rich protein 4 OS=Homo sapiens GN=PRB4 PE=1  
SV=4

MLLILLSVALLALSSAESSSEDVSQEESLFLISGKPEGRRPQGGNQPPPPPGKPQGP  
PPQGGNQSQGPPPPGKPEGRRPQGGNQSQGPPPHGKPERPPPQGGNQSQGPPPHGKP  
ESRPPQGGHQSQGPPPTPGKPEGPPQGGNQSQGTTPPPGKPEGRRPQGGNQSQGPPHP  
GKPERPPPQGGNQSHRPPPPGKPERPPPQGGNQSQGPPPHGKPEGPPQEGNKSRSAR  
SPPGKPQGPQQEGNKPGPPPPGKPGPPAGGNPQQPQAPPAGKPQGP PPPQGGRRP  
RPAQQGQPPQ

>sp|Q9Y520|PRC2C\_HUMAN Protein PRC2C OS=Homo sapiens GN=PRC2C PE=1 SV=4

MSEKSGQSTKAKDGKKYATLSLFNTYKGKSLETQKTTARHGLQSLGKVGISRRMPPPANL  
PSLKAENKGNDPNVNIVPKDGTWASKQEQHEEEKTPEVPPAQPKPGVAAPPEVAPAPKS  
WASNKGGGQGDGIQVNSQFQQEFPSLQAAGDQEKKEKETNDNYGPGPSLRPPNVACWRD  
GGKAAGSPSSSDQDEKLPGQDESTAGTSEQNDILKVVEKRIACGPPQAKLNGQQAALASQ  
YRAMPPPYMFQQYPRMTYPLHGPMPRFPPSLSETNKGLRGRGPPPSWASEPERPSILSAS  
ELKELDKFDNLDAEADGWAGAQMVDYTEQLNFSDDDEQGSNSPKENNSDQGSKASEN  
NENKKETDEVSNTKSSSQIPAQPSVAKVPYKGPSFNQERGTSSHLPPPKLLAQHPPP  
DRQAVPGRPGPFPSKQQVADEDEIWKQRRRQQSEISA AVERARKRREEEERRMEEQRKAA  
CAEKLKRLDEKLGILEKQPSPEEIREREREKEREREKELEKEQEEREKEREKDRERQQE  
KEKELEKEQEKEQREMEKERKQEKEKELERQKEKEKELQKMKEQEKECELEKEREKLEEKI  
EPREP NLEPMVEKQSENSCNKEEPVFTRQDSNRSEKEATPVVHETEPESGSQPRPAVL  
SGYFKQFQKSLPPRFQRQQEQMKQQQWQQQQQGVLPQTVPSQPSSTVPPPPHRPLYQP  
MQPHPQHLASMGFDPRLMMQSYMDPRMMSGRPAMDIPPIHPGMIIPKPLMRDQMEGSP  
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EQITAAYSVEHNQLEAHPKADFIRESSEAQVQKFLSRSVEDVRPHHTDANNQSACFEAPD  
QKTL SAPQEERISAVESQPSRKRSVSHGSNHTQKPDEQRSEPSAGIPKVT SRCIDSKEPI  
ERPEEKPKKEGFIRSSEGPKEKVYKSKSETRWGPRPSSNRREEVNDRPVRRSGPIKKPV  
LRDMKEEREQRKEKEGEKAKEVTEKVVVKPEKTEKKDLPPPPPPQPPAPIQPQSVPPP I  
QPEAEKFPSTETATLAQKPSQDTEKPLEPVSTVQVEPAVKTVNQQTMAAPVVKEEKQPEK  
VISKDLVIERPRPDSRPAVKKESTLPPTYWKEARERDWFDPQGYRGRGRGEYYSRGRSY  
RGSYGGRGRGGRGHTRDYPQYRDNKPRAEHIPSGPLRQREESETRSESSDFEVVPKRRRQ  
RGSETD TDSEIHESASDKDSLKGKLPKREERPENKKPVKPHSSFKPDNHVRIDNRLLEK  
PYVRDDDKAKPGFLPKGEPTRRGRGGTFRRGGRDPGGRPSRPSTLRRPAYRDNQWNPRQS  
EVPKPEDGEPPRRHEQFIPIAADKRPPKFERKFDPARERPRRQRPTRPPRQDKPPRFRL  
REREAASKSNEVVAVPTNGTVNNVAQEPVNTLGDISGNKTPDL SNQNSSDQANEWETAS  
ESSDFNERRERDEKKNADLNAQTVVKGENVLPPKREIAKRSFSSQRPVDRQNRNGNGP  
PKSGRNFSGPRNERRSGPPSKSGKRGPFDDQPAGTTGVDLINGSSAHHQEGVPNGTGQKN  
SKDSTGKKREDPKPGPKPKKEKVDALSQFDLN NYASVVIIDDHPEVTVIEDPQSNLNDG  
FTEVVS KKKQKRLQDEERRKKEEQVIQVWNKKNANEKGRSQTSKLPPRFAKKQATGIQQA

QSSASVPPLASAPLPSTASVPASTSAPLPATLTPVPASTSAPVPASTLAPVLASTSAP  
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LPDLSPVENKEHKPGPIGKERSLKNRKVKDAQQVEPEGQEKPSPATVRSTDPVTTKETKA  
VSEMSTEIGTMISVSSAEYGTNAKESVTDYTPSSSLPNTVATNNTKMEDTLVNNVPLPN  
TLPLPKRETIQSSSLTSVPPTTFSLTFKMESARKAWENSPNVREKGSPTSTAPPIATG  
VSSSASGPSTANYNSFSSASMPQIPVASVTPTASLSGAGTYTTSSLSTKSTTTSDPPNIC  
KVKPQQLQTSSLPSASHFSQLSCMPSLIAQQQQNPQVYVSQSAAQIPAFYMDTSHLFNT  
QHARLAPPSLAQQQGFQPGLSQPTSVQQIPPIYAPLQGQHQAQLSLGAGPAVSQAQELF  
SSSLQPYRSQPAFMQSSLSQPSVVLSGTAIHNFTVQHQLAKAQSGLAFQQTSTNTQPIP  
ILYEHQLGQASGLGGSQGLIDTHLLQARANLTQASNLYSGVQVQPGQTNFYNTAQSPSALQ  
QVTVPLPASQLSLPNFGSTGQPLIALPQTLQPPHQHTTQAQAQSLSRPAQVSQPFRLI  
PAGTQHSMIATTGKMSEMELKAFGSGIDIKPGTPPIAGRSTTPTSSPFRTSTSPNSQSS  
KMNSIVYQKQFQSA PATVRMTQPFPTQFAPQILSQPNLVPLVRAPHTNTFPAPVQRPPM  
ALASQMPPLTTGLMSHARLPHVARGPCGSLSGVRGNQAQAALKAQDMKAKQRAEVLQS  
TQRFSEQQQSKQIGGGKAQKVDSDSSKPPETLTDPPGVCQEKVEEKPPPAPSIATKPVR  
TGPIKPQAIKTEETKS

>sp|Q9HCU5|PREB\_HUMAN Prolactin regulatory element-binding protein OS=Homo sapiens  
GN=PREB PE=1 SV=2

MGRRAPELYRAPFLYALQVDPSTGLLIAAGGGAAKTGIKNGVHFLQLELINGRLSAS  
LLHSHDTETRATMNLALAGDILAAGQDAHCQLLRFAQHQQGKAKEAGSKEQGPRQRKG  
AAPAEKKCGAETQHEGLELRVENLQAVQTDFFSDPLQKVVCFNHNTLLATGGTDGYVRV  
WKVPSLEKVFLEKAHEGEIEDLALGPDGKLTVGRDLKASVWQKDQLVTQLHWQENGPTF  
SSTPYRYQACRFQVDPQAGLRLFTVQIPHKLRLQPPPCYLTAWDGSNFLPLRTKSCGH  
EVVSCLDVSESGTFLGLGTVTGSVAIYIAFSLQCLYYVREAHGIVVTDVAFLEKGRGPE  
LLGSHETALFSVAVDSRCQLHLLPSRRSVPVWLLLLLCVGLIIVTILLQLSAFPGFL

>sp|Q8TCU6|PREX1\_HUMAN Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger  
1 protein OS=Homo sapiens GN=PREX1 PE=1 SV=3

MEAPSGSEPGDGAGDCAHPDPRAPGAAAPSSGPGCAAARESERQLRLRLCVLNEILGT  
ERDYVGTLRFLQSAFLHRIRQNVADSVEKGLTEENVKVLFSNIEDILEVHKDFLAALEYC  
LHPEPQSQHELGNVFLKFKDKFCVYEEYCSNHEKALRLVELNKIPTVRAFLSCMLLGG  
RKTTDIPLEGYLLSPIQRICKYPLLLKELAKRTPGKHPDHPAVQSALQAMKTVCSNINET  
KRQMEKLEALEQLQSHIEGWEGSNLTDICTQLLLQGTLKISAGNIQERAFFLFDNLLVY  
CKRKSRTVTSKKSTKRTKSINGSLYIFRGRINTEVMEVENVEDGTADYHSNGYTVTNGWK  
IHNTAKNKWFVCMATAEEKQKWLDAIIREREQRESLKLGMERDAYVMIAEKGEKLYHMM  
MNKKVNLIKDRRRKLSTVPKFCFLGNEFVAWLLEIGEISKTEEGVNLGQALLENGIIHHVS  
DKHQFKNEQVMYRFRYDDGTYKARSELEDIMSKGVRLYCRHSLYTPVIKDRDYHLKTYK  
SVLPGSKLVDWLLAQGDCQTREEAVALGVLCNNGFMHHVLEKSEFRDESQYFRFHADDE  
MEGTSSKNKQLRNDFKLVENILAKRLLILPQEEDYGFDIEEKNKAVVKSQVQSGSLAEVA  
GLQVGRKIYSINEDLVFLRPFSEVESILNQSFCSRRLRLLVATKAKEIIKIPDQPD TLC  
FQIRGAAPPYVYAVGRGSEAMAAGLCAGQCILKVNGSNVMNDGAPEVLEHFQAFRSRREE

ALGLYQWIYHTHEDAQEARASQEASTEDPSGEQAQEEDQADSAPLLSLGPRLSLCEDSP  
MVTLTVDNVHLEHGVVYEVVSTAGVRCHVLEKIVEPRGCFGLTAKILEAFAANDSVFVEN  
CRRMLALSSAIVTMPHFEFNRNICDTKLESIGQRIACYQEFAAQLKSRVSPPFKQAPLEPH  
PLCGLDFCPTNCHINLMEVSYPKTTPSVGRSFSIRFGRKPSLIGLDPEQGHLNPMSTYQH  
CITTMAAPSWKCLPAAEGDPQGQGLHDGSFGPASGTLGQEDRGLSFLKQEDREIQDAYL  
QLFTKLDVALKEMKQYVTQINRLLSTITEPTSGGSCDASLAEAEASSLPLVSESEMDRSD  
HGGIKKVCFKVAEEDQEDSGHDTMSYRDSYSECNSNRDSVLSYTSVRSNSSYLGSDMG  
GDELPCDMRIPSDKQDKLHGCLHFLNQVDSINALLKGPVMSRAFEETKHFPNMHSLQEF  
KQKEECTIRGRSLIQISIQEDPWNLPNSIKTLVDNIQRYVEDGKNQLLLALLKCTDTLQ  
LRRDAIFCQALVAAVCTFSKQLAALGYRYNNNGEYEESSRDASRKWLEQVAATGVLLHC  
QSLLSPATVKEERTMLEDIWVTLSELDNVTFSEFKQLDENYVANTNVFYHIEGSRQALKVI  
FYLDSYHFSKLPRLGASLRHLTALFTKVLENVEGLSPSPGSAEEDLQQDINAQSLEK  
VQQYYRKLRAFYLERSNLPTDASTTAVKIDQLIRPINALDELCLRMKSFVHPKPGAAGSV  
GAGLIPISSELCYRLGACQVMVCGTGMQRSTLSVSLEQAAILARSHGLLPKCIMQATDIM  
RKQGPVREILAKNLRVKDQMPQGAPRLYRLCQPPVDGDL

>sp|Q8N945|PRLD2\_HUMAN PRELI domain-containing protein 2 OS=Homo sapiens GN=PRELID2 PE=2  
SV=1

MGVSVDVHVQYKYPFEQVVASFLRKYPNPMKDNVISVKIMEEKREDESGVIYRKRIAICQ  
NVVPEILRKSLSTLVILCWKKVSILKVPNIQLEESWLNPRERNMAIRSHCLTWTQYASM  
KEESVFRESMENPNWTEFIQRGRISITGVGFLNCVLETFASTFLRQGAQKGIRIMEMLLK  
EQCGAPLAE

>sp|P04554|PRM2\_HUMAN Protamine-2 OS=Homo sapiens GN=PRM2 PE=1 SV=3

MVRYRVRSLSERSHEVYRQQLHGQEQGHGQEEQGLSPEHVEVYERTHGQSHYRRRHCSR  
RRLHRIHRRQHRSRKRKRRCRHRRRHRRGCRTKRKTCRRH

>sp|P04070|PROC\_HUMAN Vitamin K-dependent protein C OS=Homo sapiens GN=PROC PE=1 SV=1

MWQLTSLLLFVATWGISGTPAPLDSVFSSSERAHQVLRIRKRANSFLEELRHSSLERECI  
EEICDFEEAKEIFQNVDDTLAFWSKHVDGDQCLVPLEHPCASLCCGHGTCIDGIGSFSC  
DCRSGWEGRFCQREVSFLNCSLDNGGCTHYCLEEVGWRRCSAPGYKLGDDLQCHPAVK  
FPCGRPWKRMEKKRSHLKRDTEDQEDQVDPRLIDGKMTRRGDSPWQVVLLDSKKKLACGA  
VLIHPSWVLTAAHCMDSESKLLVRLGEYDLRRWEKWELDLDIKEVFVHPNYSKSTTDNDI  
ALLHLAQPATLSQTIVPICLPDSGLAERELNQAGQETLVGTWGYHSSREKEAKRNRTFVL  
NFIKIPVVPNECSEVMNSENMLCAGILGDRQDACEGDSGPMVASFHGTWFLVGLV  
SWGEGCGLLHNYGVYTKVSRYLWDWIHGHIRDKEAPQKSWAP

>sp|O43272|PROD\_HUMAN Proline dehydrogenase 1, mitochondrial OS=Homo sapiens GN=PRODH  
PE=1 SV=3

MALRRALPALRPCIPRFVQLSTAPASREQPAAGPAAVPGGGSATAVRPPVPAVDFGNAQE  
AYRSRRTWELARSLVLRLCAWPALLARHEQLLYVSRKLLGQRLFNKLMKMTFYGHFVAG  
EDQESIQPLLRYRAFGVSAILDYGVEEDLSPEEAHEKEMESCTSAERDGSNTKRDQK  
YQAHRAFGDRRNGVISARTYFYANEAKCDSHMETFLRCIEASGRVSDDGFIAIKLTALGR  
PQFLLQFSEVLAKWRCFFHQMAVEQGGAGLAAMDTKLEAVLQESVAKLGIASRAEIEDW  
FTAETLGVSGTMDLLDWSSLIDSRTKLSKHLVVPNAQTGQLEPLLSRFTEEEELQMTRML  
QRMDVLAKKATEMGVRLMVDAEQTYFQPAISRILTLEMQRKFNVEKPLIFNTYQCYLKDAY  
DNVTLDVELARREGWCFGAKLVRGAYLAQERARAAEIGYEDPINPTYEATNAMYHRCLDY  
VLEELKHNAKAKVMVASHNEDTVRFALRRMEELGLHPADHQVYFGQLLGMCDQISFPLGQ

AGYPVYKYVPYPGVMEVLPYLSRRALNSSLMKGTHRERQLLWLELLRRLRTGNLFHRPA

>sp|P27918|PROP\_HUMAN Properdin OS=Homo sapiens GN=CFP PE=1 SV=2

MITEGAQAPRLLLPPLLLLLTLPATGSDPVLCTQYEESSGKCKGLGGGVSVEDCCLNT  
AFAYQKRSGGLCQPCRSRWSLSTWAPCSVTCSEGSQLYRRCVGNWQCSGKVAPGTL  
EWQLQACEDQQCCPEMGGWSGWGPWEPCSVTCSKGTTRRRACNHPAPKCGGHCPGQAQE  
SEACDTQQVCPHTGAWATWGPWTPCSASCHGGPHEPKETRSRKCSAPEPSQKPPGKPCPG  
LAYEQRRCTGLPPCPVAGGWGPVSPCVTCGLGQTMEQRTCNPVPHGGPFCAGDA  
TRTHICNTAVPCPDGEWDSWGEWSPCIRRNMKSI SCQEIPGQQSRGRTCRGRKFDGHRC  
AGQQQDIRHCYSIQHCLPKGSWEWSTWGLCMPPCGPNPTRARQRLCTPLLPKYPTVSM  
VEGQGEKNVTFWGRPLRCEELQGQKLVVEEKRPCLHVPACKDPEEEEL

>sp|Q9UMS4|PRP19\_HUMAN Pre-mRNA-processing factor 19 OS=Homo sapiens GN=PRPF19 PE=1 SV=1

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IRPKPPSATSIPAILKALQDEWDAVMLHSFTLRQQLQTRQELSHALYQHDAACRVIARL  
TKEVTAAREALATLKPQAGLIVPQAVPSSQPSVVGAGEPMDLGELVGMTPEIIQKLQDKA  
TVLTTERKKRGKTVPEELVKPEELSKYRQVASHVGLHSASIPGILALDLCPSTNKLITG  
GADKNVVVFDKSSEQILATLKGHTKKVTSVVFHPSQDLVFSASPDATIRIWSVPNASCVQ  
VVRAHESAVTGLSLHATGDYLLSSDDQYWAFSDIQTGRVLTKVTDETSGCSLTCAQFHP  
DGLIFGTGTMDSQIKIWDLKERTNVANFPGHSGPITSIAFSENGYYLATAADDSSVKLWD  
LRKLKNFKTLQLDNNFEVKSLIFDQSGTYLALGGTDVQIYICKQWTEILHFTEHSGLTG  
VAFGHHAKFIASGTMDRSLKFYSL

>sp|P04280|PRP1\_HUMAN Basic salivary proline-rich protein 1 OS=Homo sapiens GN=PRB1 PE=1 SV=2

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PPQGKNKPQGPPPPGKPGPPPPQGDKSRSRSPPGKPGPPPPQGGNQPGPPPPGKPGQ  
PPPPGGNKPQGPPPPGKPGPPPPQGDKSQSPRSPPGKPGPPPPQGGNQPGPPPPGKPG  
GPPPPGGNKPQGPPPPGKPGPPPPQGDKSQSPRSPPGKPGPPPPQGGNQPGPPPPGKPG  
QGPPPPGGNRPQGPPPPGKPGPPPPQGDKSRSPPGKPGPPPPQGGNQPGPPPPGKPG  
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GGNPQQPQAPPAGQPQGP RP RPQGGRPSRPPQ

>sp|O94906|PRP6\_HUMAN Pre-mRNA-processing factor 6 OS=Homo sapiens GN=PRPF6 PE=1 SV=1

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KKNQAADDDDEDLNDTNYDEFNGYAGSLFSSGPYEKDDEEADAIYAALDKRMDERRKERR  
EQREKEEIEKYRMERPKIQQQFSDLKRKLAEVTEEEWLSIPEVGDARNKRQRNPRYEKLT  
PVPDSFFAKHLQTGENHTSVDPRTQTFGGLNTPYPGGLNTPYPGGMTPLMTPTGELDM  
RKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLSMIPTHGGDINDIKARLLLKS  
VRETNP HHPPAWIASARLEEVTKLQVARNLIMKGTEMCPKSEDVWLEAARLQPGDTAKA  
VVAQAVRHL PQSVRIYIRAAELETDIRAKKRVLRKALEHVPNSVRLWKA AVELEPEDAR  
IMLSRAVECCPTSVELWLALARLETYENARKVLNKARENIPTRHIWITA AKLEEANGNT  
QMVEKIIDRAITSLRANGVEINREQWIQDAEECDRAGSVATCQAVMRAVIGIGIEEEDRK  
HTWMEDADSCVAHNALECARAIYAYALQVFPSKKS VWLRAAYFEKNHGTRESLEALLQRA  
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLAAVKLESENDEYER  
ARRLLAKARSSAPTARVFMKSVKLEWVQDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEE  
QKEMMEKAREAYNQGLKKCPHSTPLWLLSRLEEKIGQLTRARAILEKSRLKNPKNPGLW  
LESVRLEYRAGLKN IANTLMAKALQECPSGILWSEAIFLEARPQRRTKSVDALKKCEHD



PHVLLAVAKLFWSQLKITKAREWFHRTVKIDSDLGDAWAFFYKFELQHGTEEQQEEVRKR  
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF

>sp|P23942|PRPH2\_HUMAN Peripherin-2 OS=Homo sapiens GN=PRPH2 PE=1 SV=1

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PNSLIGMGVLSCVFNSLAGKICYDALDPAKYARWKPWLKPYLAICVLFNIILFLVALCCF  
LLRGSLENTLGQGLKNGMKYYRDTDTPGRCFMKKTIDMLQIEFKCCGNGFRDWFELQWI  
SNRYLDFSSKEVKDRIKSNVDGRYLVGDVPFSCCNPSRPCIQYQITNNSAHYSYDHQT  
EELNLWVRGCRAALLSYYSSLMNSMGVVTLLIWLFEVTITIGLRYLQTSLDGVSNPPEESE  
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>sp|P60891|PRPS1\_HUMAN Ribose-phosphate pyrophosphokinase 1 OS=Homo sapiens GN=PRPS1 PE=1  
SV=2

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GEINDNLMELLIMINACKIASASRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAG  
ADHIITMDLHASQIQGFFDIPVDNLYAEPVLKWIRENISEWRNCTIVSPDAGGAKRVTS  
IADRLNVDFALIHKERKKANEVDRMVLVGDVKDRVAILVDDMADTCGTICHAADKLLSAG  
ATRVYAILTHGIFSGPAISRINNACFEAVVVTNTIPQEDKMKHCSKIQVIDISMILAEAI  
RRTNGESVSYLFSHVPL

>sp|Q8IV56|PRR15\_HUMAN Proline-rich protein 15 OS=Homo sapiens GN=PRR15 PE=2 SV=1

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HPNLLGGAGEPPKPKDLYGDKSGSSRRNLKISRSGRFKEKRKVRATLLPEAGRSPEEAGF  
PGDPHEDKQ

>sp|Q8N4B5|PRR18\_HUMAN Proline-rich protein 18 OS=Homo sapiens GN=PRR18 PE=2 SV=2

MPFPPMPPPPAPAPGAQAARQLPRRCAAGDKKKRPPQRPEGLSSSWPSATLKRPPARR  
GPGLDRTQPPAPPGVSPQALPSRARAPATCAPPRPAGSGHSPARTTYAATSAGTGTTAAG  
TSSGAGPCPDSAARFCLNLTPEAVLVIQKRHLEKQLLARPRRPFPSAEPRLLAPCLP  
ARAAGPRRGPPASDPDAPPTAGQGRRAPPGAQLLHGGLQVPQLSPRPGALRPMLKVSL  
NERHRYDDVEYEEEPPEAVDEGLVRKCTEWLRGVESAAAARGRAGALDSRRHLSTL

>sp|Q8N8Z3|PRR26\_HUMAN Proline-rich protein 26 OS=Homo sapiens GN=PRR26 PE=2 SV=1

MESSRWDKDPGERRPQQSQHWRARDHGARGCGPRQPTATASPRPGLWITPAHGSHTPQT  
NTRRTQADNIFIYESWLIHGTQMSSVLPQPPLVRGPWHNTNSPWDSWASRGKLRVCPCR  
TPRLHSSGCFSSKAGTALSPSLPVPGLRPQPFLQKPLSILAPATPPALVSPTPPKLSPG  
QLSPHSVNVHWGPQGHLHLPRSGTTVLHAYLQTLSSPASHQ

>sp|POC7W0|PRR29\_HUMAN Proline-rich protein 29 OS=Homo sapiens GN=PRR29 PE=2 SV=2

MASGAGGSWGRSPPQSAVPTPWVTFLLQPLSWAVPPAPPQGRVKEDLLELMMLQNAQMHQ  
LLLSRLVAGALQPRPASCPQVYLEVPQEEPEEEEEEMDVREKGPLVFHHHYLPYLMPS  
GALLPWPAPFFPTPACQPYLQDVPRIQHCPASREREVRVPPPPPSATGTVGADVPPAS  
DYYDAESLL

>sp|Q6UWB4|PRSS55\_HUMAN Serine protease 55 OS=Homo sapiens GN=PRSS55 PE=1 SV=2

MLLFVLLLLSLVTGTQLGPRTPLEAGVAILGRARGAHRPQPPHPPSPVSECGRSIFE  
GRTRYSRITGGMEAEVGEFPWQVSIQARSEPFCCGSILNKWWILTAHCLYSEELFPEEL  
SVVLGTNDLTSPSMEIKEVASIILHKDFKRANMDNDIALLLASPIKLDLKVPICLPTQ  
PGPATWRECWWAGWGQTNAADKNSVKTDLMKAPMVIDWEECSKMFPLTKNMLCAGYKN  
ESYDACKGDSGGLVCTPEPGEKQYQVGIIISWGKSCGEKNTPGIYTSLVNYNLWIEKVTQ  
LEGRPFNAEKRRTSVKQKPMGSPVSGVPEPGSPRSWLLLCPLSHVLFRAILY

>sp|P60900|PSA6\_HUMAN Proteasome subunit alpha type-6 OS=Homo sapiens GN=PSMA6 PE=1 SV=1  
MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKL  
LDSSTVTHLFKITENIGCVMTGMTADSRSQVQRARYEAAWYKYGYEIPVDMCKRIAD  
ISQVYTQNAEMRPLGCCMILIGIDEEQGPQVYKCDPAGYYCGFKATAAGVKQTESTSFLE  
KKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENPKFRILTEAEIDAHLV  
ALAERD

>sp|Q5R3F8|PPR29\_HUMAN Protein phosphatase 1 regulatory subunit 29 OS=Homo sapiens  
GN=ELFN2 PE=1 SV=1

MLRLGLCAAALLCVCPRGAVRADCWLIIEGDKGYVWLAICSQNQPYPYETIPQHINSTVHDL  
RLNENKLKAVLYSSLNRFNLTDLNLTKNEISYIEDGAFLGQSSLQVLQLGYNKLSNLTE  
GMLRGM SRLQFLFVQHNLIEVVTPTAFSECP SLISIDLSSNRLSRLDGATFASLASLMVC  
ELAGNPFNCECDLFGFLAWLVFNNTKNYDRLQCESPREFAGYPLLVRPHYSLNAITV  
LQAKCRNGSLPARPVSHPTPYSTDAQREPDENSGFNPDEILSVEPPASSTTDASAGPAIK  
LHHVTFTSATLVIIIPHYSKMYILVQYNNYSYFSDVMTLKNKKEIVTLDKLRAHTEYTFC  
VTSLRNRRFNHTCLTFTTRDPVPGDLAPSTSTTHYIMTILGCLFGMVIVLGAVYYCLR  
KRRMQEEKQKSVNVKKTILEMRYGADV DAGSIVHAAQKLGEPPVLPVSRMASIPSMIGEK  
LPTAKGLEAGLDTPKVATKNYIEVRTGAGGDGLARPEDDLPLENGQSAAEISTIAKE  
VDKNQIINNIDALKLDSASFLGGGSSGDPELAFECQSLPAAAAASSATGPGALERPS  
FLSPPYKESSHPLQRQLSADAAVTRKTCSVSSSGSIKSAKFVSLDVPDHPAATGLAKGD  
SKYIEKGSPLNSPLDRLPLVPAGSGGGSGGGGGIHHLEVKPAYHCSEHRHSFPALYYEEG  
ADLSQRVSFLKPLTRSKRDSTYSQLSPRHYSGYSSSPEYSSESTHKIWERFRPYKKHH  
REEVYMAAGHALRKKVQFAKDEDLHDILDYWKGVSAQQKL

>sp|Q8TAP8|PPR35\_HUMAN Protein phosphatase 1 regulatory subunit 35 OS=Homo sapiens  
GN=PPP1R35 PE=1 SV=1

MMMGCGESELKSADGEEAAVPGPPPEQVPQLRAPVPEPGLDLSLSPRPDSPQPRHGSP  
GRRKGRAERRGAARQRRQVRFRLTTPSPVRSEPQPAVPQELEMPVLKSSLALGLELRAAA  
GSHFDAKAVEEQLRKSQFIRCGLEESVSEGLNVPRSKRLFRDLVSLQVP EEQVLNAA LR  
EKLALLPPQARAPHPKEPPGPGPDMTILCDPETLFYESPHLTLDGLPPLRLQLRPRPSED  
TFLMHRTLRRWEA

>sp|Q86XI6|PPR3B\_HUMAN Protein phosphatase 1 regulatory subunit 3B OS=Homo sapiens  
GN=PPP1R3B PE=1 SV=1

MMAVDIEYRYNCMAPSLRQERFAFKISPKPSKPLRPCIQLSSKNEASGMVAPAVQEKVK  
KRVSFADNQGLALTMVKVFSEFDDPLDMPFNITELLDNIVSLTTAESESFVLDFSQPSAD  
YLDFRNRLQADHVCLENCVLKDKAIAGTVKVQNLAFEKTVKIRMTFDTWKSYPDPCQYV  
KDTYAGSDRDTFSFDISLPEKIQSYERMEFAVYYECNGQTYWDSNRGKNYRIIRAELKST  
QGMTKPHSGPDLGISFDQFGSPRCSYGLFPEWPSYLGYEKLGYY

>sp|Q6ZSY5|PPR3F\_HUMAN Protein phosphatase 1 regulatory subunit 3F OS=Homo sapiens  
GN=PPP1R3F PE=1 SV=3

MARTAPVEPPLRHSAPSPAAGEPRTSVEAAVAPRRVLFAD EALGLPLAQLRRYRPWGGP  
GAGKMAAAAGQDGGGGGGADEDDGDGDEGEEEEACPEPSPLCPVPAGGGFYLVPTFS  
LPPAPGRLERLGRVMVELEALLPPPGAVPGGAGVWVPGGRPPVLRGLVRVLNRSFEKAVH  
VRASHDGWASFCDHARYVPRSPWAGAGGTGAGDPILDPGLGLPGQASASSPDDGGRT  
DRFAFQLPFAEGAGDARLDFVRYETPEGTFWANNHGRNYTVLLRIAPAPTPTDAEGLP  
QQQQLPQLEPQPECQGPVEAEARQLKSCMKPVRRRPAEEELKTKNMDDNTFAMA EHPDVQ

ESVGPLVAPTPLRPWPQMTLQVSDVPMGTGNPAEEGDVPRSSPPVAFTEVLQAPAIRIPPS  
SPLCGLGGSPRDQASGPDASEGATGPFLEPSQQQAEATWGVSSSENGGLEAVSGSEELLG  
EDTIDQEQLEQLYLSHLSRLRAAVAAGGAGGGGEGSTDGGMSPSHPLGILTDRDLILKWPG  
PERALNSALAEIITLHYARLGRGVELIKDTEPDDEGEGEGLSVTPSSPEGDSPKESPP  
EILSGARSVVATMGDVWLPWAEGSGCDGPVVLGTEGQFIGDPEKGMGKDTSSLHMNRVIA  
GVTESLGEAGTEAQIEVTSEWAGSLDPISGKEPASPVLLQGQNPTLLSPLGAEVCLSSVA  
RPHVSSQDEKDAGPSLEPPKKSPTLAVPAECVCALPPQLRGPLTQTLGVLAGLVVVPVAL  
NSGVSLVLALCLSLAWFS

>sp|Q5VXH5|PRAM7\_HUMAN PRAME family member 7 OS=Homo sapiens GN=PRAMEF7 PE=2 SV=2

MSIRAPPRLLELARQRLLRDQALAISTMEELPRELFPTLFMEAFSRRRCETLKTMTVQAWP  
FTRLPLGSLMKSPHLESLSKSVLEGVDVLLTQEVVRPQSKLQVLDLRNVDFNCFDIFSGAT  
ASFPEALSQKQTADNCPGTGRQQPFMVFDLCLKNRTLDECLTHLLEWGKQRKGLLVHCC  
KELQVFGMPIHSIIIEVLNMVELDCIQEVEVCCPWELSTLVKFAPYLGQMRNLRKLVLFNI  
RASACIPPDNKGQFIARFTSQFLKLDYFQNLMSHSVSFLEGHLDQLLRCLQASLEMVVM  
DCLLESIDLKHLWCPSIRQLKELDLRGVTLTHFSPEPLTGLLEQAVATLQTLDEDCGI  
MDSQLSAILPVLSRCSQLSTFSFCGNLISMAALENLLRHTVGLSKLSLELYPAPLESYDT  
QGALCWGRFAELGAELMNTLRDLRQPKIIVFCTVPCPRCIRASYDLEPSHCLC

>sp|Q9H4Q4|PRD12\_HUMAN PR domain zinc finger protein 12 OS=Homo sapiens GN=PRDM12 PE=1 SV=2

MMGSVLPAEALVLKTGLKAPGLALAEVITSDILHSFLYGRWRNVLGEQLFEDKSHHASP  
TAFTAELVAQSFSGEVQKLSSVLPAEVIIAQSSIPGEGLGIFSKTWIKAGTEMGPFTGR  
VIAPEHVDICKNNLMWEVFNEDGTVRYFIDASQEDHRSWMTYIKARNEQEQNLEVQI  
GTSIFYKAIEMIPPDQELLVWYGNSHNTFLGIPGVGLEEDQKKNKHEDFHPADSAAGPA  
GRMRCVICHRGFNRSNLRSHMRIHTLDKPFVCRFCNRRFSQSSTLRNVRLHTGERPYK  
CQVCQSAYSQLAGLRAHQKSARHRPPSTALQAHSPALPAPHAHAPALAAAAAAAAAAAAAH  
HLPAMVL

>sp|Q9GZV8|PRD14\_HUMAN PR domain zinc finger protein 14 OS=Homo sapiens GN=PRDM14 PE=1 SV=1

MALPRPSEAVPQDKVCYPPESSQNLAAYYTPFPSYGHYRNSLATVEEDFQPFQRLEAAA  
SAAPAMPPFPFRMAPLLSPGLGLQREPLYDLPWYSKLPPWYPIPHVPREVPPFLSSSHE  
YAGASSEDLGHQIIIGDNESGPCCPDPTLIPPPPADASLLPEGLRTSQLLPCSPSKQSED  
GPKPSNQEKGSPARFQFTEEDLHFVLYGVTPSLEHPASLHHAISGLLVPPDSSGSDSLPQ  
TLDKDSLQLPEGLCLMQTVFGEVPHFGVFCSSFIAGVRFQPFQGVVNASEVKTYGDN  
VMWEIFEDGHLSHFIDGKGGTGNWMSYVNCARFPKEQNLVAVQCQGHIFYESCKEIHQNN  
ELLVWYGDCYEKFLDIPVSLQVTEPGKQPSGPSEESAEGYRCERCQKVFYKYRDKHLK  
YTPCVDKGRKFPCSLCKRSFEKRDRLRIHILHVHEKHRPHKCSTCGKCFSSSLNKH  
RVHSGDRPYQCVYCTKRFTASSILRTHIRQHSGEKPFCKYCGKSFASHAAHDSHVRRSH  
KEDDGCSCSICGKIFSDQETFYSHMKFHEDY

>sp|Q9HAZ2|PRD16\_HUMAN PR domain zinc finger protein 16 OS=Homo sapiens GN=PRDM16 PE=1 SV=3

MRSKARARKLAKSDGDVVNNMYEPNRDLLASHSAEDEAEDSAMSPIVGPSPFPPTSEDF  
TPKEGSPYEAPVYIPEDIPIPADFELRESSIPGAGLGWAKRKMEAGERLGPCVVVPRAA  
AKETDFGWEQILTDEVSPQEGCITKISEDLGSEKFCVDANQAGAGSWLKYIRVACSCDD  
QNLTCQISEQIYYKVIKDIEPGEELLVHVKEGVYPLGTVPPGLDEEPTFRCDCEDELQ

SKLDLRRHKYTCGSGAALYEGLAELKPEGLGGSGQAHECKDCERMFNPKYSLEQHM  
VIHTEEREYKCDQCPKAFNWKSNLIRHQMSHDSGKRFECENCVKVFTDPSNLQRHIRSQH  
VGARAHACPCDCKTFATSSGLKQHKHIHSTVKPFICEVCHKSYTQFSNLCRHKRMHADCR  
TQICKCKDCGMFSTTSSLNKRRFCEGKNHYTPGGIFAPGLPLTPSPMDKAKPSPSLNH  
ASLGFNEYFSPRHPGSLPFSTAPPTFPALTPGFPGIFPPSLYPRPPLLPTSLKSLPN  
HTQDAKLPSPLGNPALPLVSAVSNSSQGTTAAAGPEEKFESRLEDSCVEKLKTRSSDMSD  
GSDFEDVNTTGTDLDTTGTGSDLDSDVSDPDKDKGKSAEGQPKFGGGLAPPGAPN  
SVAEVPVFYSQHSFFPPDEQLLTATGAAGDSIKAIASIAEKYFGPGFMGMQEKKLGSLP  
YHSAPFPQFLPNFPHSLYPFTDRALAHNLLVKAEPKSPRDALKVGGPSAECFDLTTKPK  
DVKPIILPMPKGPSAPASGEEQPLDLSIGSRARASQNGGGREPRKNHVGKRLGAGEGLP  
QVCPARMPQQPPLHYAKSPFFMDPIYSRVEKRKVTDPVGALKEKYLPSPLL FHPQMSA  
IETMTEKLESFAAMKADSGSSLQPLPHHPFNFRSPPTLSDPILRKGKERYTCRYCGKIF  
PRSANLTRHLRTHTGEQPYRCKYCDRSFSISSNLQRHVRNIHNKEKPFKCHLCNRCFGQQ  
TNLDRHLKKHEHENAPVSQHPGVLTNHLGTSASSPTSESDNHALLDEKEDSYFSEIRNFI  
ANSEMNQASTRTEKRAMQIVDGSACPLASEKQEDVEEEDDDLEEDDEDLAGKSQD  
DTVSPAPEPQAAYEDEEDEEPAASLAVGFDHTRCAEDHEGGLLALPMPFTFGKGLDLRR  
AAEEAFEVKVDLNSTLDSEALKHTLCRQAKNQAYAMMLSLSEDTPHLPSTQGSGLDAWLKV  
TGATSESGAFHPINHL

>sp|Q9UKN5|PRDM4\_HUMAN PR domain zinc finger protein 4 OS=Homo sapiens GN=PRDM4 PE=1 SV=3

MHHRMNEMNLSPVGMEQLTSSSVSNALPVSGSHLGLAASPTHSAIPAPGLPVAIPNLGPS  
LSSLPSALSLMLPMGIGDRVMCGLPERNYTLPPPPYPHLESSYFRTILPGILSYLADRP  
PPQYIHPNSINVDGNTALSITNNSALDPYQSNNGVLEPGIVSIDSRSVNTHGAQSLHP  
SDGHEVALDTAITMENVSRTSPISTDGMAEELTMDGVAGEHSQIPNGSR SHEPLSVDSV  
SNNLAADAVGHGGVIPMHGNGLELPVVMETDHIASRVNGMSDSALSDSIHTVAMSTNSVS  
VALSTSHNLASLESVSLHEVGLSLEPVAVSSITQEVAMGTGHVDVSSDSL SFVSPSLQME  
DSNSNKENMATLFTIWTCLCDRAYPSDCPEHGPVTFVPDTPIESRARLSLPKQLVLRQSI  
VGAEVGVWTGETIPVRTCFGLIGQQSHSMEVAEWTDKAVNHIWKIYHNGVLEFCIITTD  
ENECNMMFVRKARNREEQNLVAYPHDGKIFFCTSQDIPPENELLFYYSRDYAAQIGVPE  
HPDVHLCNCGKECNSYTEFKAHLTSHIHNLPTQGHSGSHGPSHSKERKWKCSMCPQAFI  
SPSKLHVHFMGHMGMKPHKCDFCSKAFSDPSNLRTHLKIHTGQKNYRCTLCDKSFTQKAH  
LESHMVIHTGEKNLKCDCYCDKLFMRQDLKQHVL IHTQERQIKCPKCDKLFRTNHLKKH  
LNSHEGKR DYVCEKCTKAYLTKYHLTRHLKTCKGPTSSSSAPEEEEEDDSEEDLADSVG  
TEDCRINSAVYSADESLSAHK

>sp|Q9NQX1|PRDM5\_HUMAN PR domain zinc finger protein 5 OS=Homo sapiens GN=PRDM5 PE=1 SV=2

MLGMYVPDRFSLKSSRVQDGMGLYTARRVRKGEKFGPFAGEKRMPEDLDENMDYRLMWEV  
RGSKEVLYILDATNPRHSNWLRFVHEAPSQE QKNLAAIQEGENIFYLAVEDIETDTELL  
IGYLDSDMEAEQEQIMTVIKEGEVENSRRQSTAGRKDRLGCKEDYACPQCESSFTSED  
ILAEHLQTLHQPTTEEKEFKCKNCCKKFPVKQALQRHVLQCTAKSSLKESSRSFQCSCVCN  
SSFSSASSFEQHQETCRGDARFVCKADSCGKRLKSKDALKRHQENVHTGDPKKLIC SVC  
NKKCSSASSLQEHKRIHEIFDCQECMKKFISANQLKRHMI THSEKRPYNCEICNKSFKRL  
DQVGAHKVIHSEDKPYCKLCGKGFAHRNVYKNHKKTHSEERPFQCEECKALFRTPPSLQ  
RHLLIHNSERTFKCHHCDA TFKRKDTLNVHVQV VHERHKKYRCELCNKAFTVPSVLRSHK  
KTHTGEKEKICPYCGQKFASSGTLRVHIRSHTGERPYQCPYCEKGFSKNDGLKMHIRTHT  
REKPYKCSECSKAFSQKRGLEHKKRTHTGEKPFQCDVCDLAFSLKKMLIRHKMTHNP NRP

LAECQFCHKKFTRNDYLVHMDNIHGVS

>sp|Q9NQV7|PRDM9\_HUMAN Histone-lysine N-methyltransferase PRDM9 OS=Homo sapiens GN=PRDM9  
PE=1 SV=2

MSPEKSQEESEEDTERTERKPMVKDAFKDISIYFTKEEWAEMGDWEKTRYRNVKRN  
LITIGLRATRPAMCHRRQAIAKLQVDDTEDSDEEWTPRQQVKPPWMALRVEQRKHQK  
KASFSNESSLKELSRANLLNASGSEQAKPVSPSGEASTSGQHSRLKLELRKKETER  
YSLRERKGHAYKEVSEPQDDDYLYCEMCQNFFIDSCAAHGPPTFVKDSAVDKGHPN  
SALSLPPGLRIGPSGIPQAGLGWNEASDLPLGLHFGPYEGRITDEEAAANGYSWLIT  
KGRNCYEYVDGDKSWANWMRYVNCARDEEQNLVAFQYHRQIFYRTCRVIRPGCELL  
VWYGDEYQELGIKWSKWKELMAGREPKEIHPSCCLAFSSQKFLSQHVERNHSQNF  
GPSARKLLQPENPCPGDQNEQQYPDPHSRNDKTKGQEIERSKLLNKRTWQREISRA  
FSSPKGQMGSCRVGKRIMEESRTGQKVNPGNTGKLFVGVGISRIAKVKYGECCGGS  
VKSVDVITHQRTHTGEKLYVCRECGRGFSWKSLLIHQRIHTGEKPYVCRECGRG  
FSWQSVLLTHQRTHTGEKPYVCRECGRGFSRQSVLLTHQRRHTGEKPYVCRECGR  
GFSRQSVLLTHQRRHTGEKPYVCRECGRGFSWQSVLLTHQRTHTGEKPYVCRECGR  
GFSWQSVLLTHQRTHTGEKPYVCRECGRGFSWQSVLLTHQRTHTGEKPYVCRECGR  
GFSNKSLLRHQRTHTGEKPYVCRECGRGFRDKSLLRHQRTHTGEKPYVCRECGRG  
FRDKSLLSHQRTHTGEKPYVCRECGRGFSNKSLLRHQRTHTGEKPYVCRECGRG  
FRDKSLLRHQRTHTGEKPYVCRECGRGFSRSSLCYHQRTHTEKPYVCREDE

>sp|Q96LW4|PRIP0\_HUMAN DNA-directed primase/polymerase protein OS=Homo sapiens GN=PRIMPOL  
PE=1 SV=2

MNRKWEAKLKQIEERASHYERKPLSSVYRPRLSKPEEPPSIWRLFHRQAQAFNFV  
KSCKEDVHVFALECKVGDGQRIYLVTTIAEFWFYYSRKNLLHCYEVIPENAVCKLY  
FDLEFNKPANPGADGKKMVALLEYVCKALQELYGVNCSAEDVLNLDSSSTDEKFSQ  
HLIFQLHDVAFKDNHVGNFRLRKILQPALDLLGSEDDDSAPETTGHGFPHFSEAPAR  
QGFSFNKMFTEKATEESWTSNSKKLERLGSAEQSSPDLVVKNNMGEKHLFVDLGVY  
TRNRNFRLYKSSKIGKRVALEVTEDNKFPIQSKDVSDEYQYFLSSLVSNVRFSDTLR  
ILTCEPSQNKQKGVGYFNSIGTSVETIEGFQCSPEVDHFVLSLVNKDGIKGIRRWNY  
FFPEELLVYDICKYRWCENIGRAHKSNNIMILVDLKNEVWYQKCHDPVCKAENFKSD  
CFPLPAEVCLLFLFKEEEEFTTDEADETRSNETQNPHPKSPSRSLTGASADAVWDNG  
IDDAYFLEATEDAELEAAEENSLSYNSEVDEIPDELIIEVLQE

>sp|Q9Y255|PRLD1\_HUMAN PRELI domain-containing protein 1, mitochondrial OS=Homo sapiens  
GN=PRELID1 PE=1 SV=1

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEIVHREVTPDQKLSRRLT  
KTNRMPRWAERLFPANVAHSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERC  
VCVNSDMSGWTEIRREAWSSSLFGVSRAVQEFGLARFKSNVTKTMKGFEYILAKLQ  
GEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQFV

>sp|Q9HC23|PROK2\_HUMAN Prokineticin-2 OS=Homo sapiens GN=PROK2 PE=1 SV=2

MRLSCCAPLLLLLLPPLLTTPRAGDAAVITGACDKDSQCGGGMCCAIVSVKSI  
RICTPMGKLGDSCPLTRKNFNGNRQERRKRKRSKRKKEVPFFGRRMHHTCPLPGL  
ACLRTSFRNFICLAQK

>sp|O95084|PRS23\_HUMAN Serine protease 23 OS=Homo sapiens GN=PRSS23 PE=1 SV=1

MAGIPGLLFLFFLLCAVGQVSPYSAPWKPTWPAYRLPVVLPQSTLNLAKPDFGAE  
AKLEVSSSCGPQCHKGTPLPTYEEAKQYLSYETLYANGSRTETQVGIYILSSSGDGA  
QHRDSSGSGKSRKRQIYGYDSRFSIFGKDFLLNYPFSTSVKLSTGCTGTLVAEKH  
VLTAAHCIDHG

KTYVKGTKQLRVGFLKPKFKDGGRGANDSTSAMPEQMKFQWIRVKRTHVPGWIKGNAND  
IGMDYDYALLELKKPHKRKFMKIGVSPPAKQLPGGRIHFSGYDNDRPGNLVYRFCDVKDE  
TYDLLYQQCDAQPGASGSGVYVRMWKRQQQKWERKIIGIFSGHQWDMNGSPQDFNVAVR  
ITPLKYAQICYWIKGNYLDCREG

>sp|A6NIE9|PRS29\_HUMAN Putative serine protease 29 OS=Homo sapiens GN=PRSS29P PE=5 SV=3  
MPTTPDPGSEPPARTPRPPPLTPGLSPQPALHALSPQLLLLLFLAVSSLGSCSTGSPVPV  
PENDLVGIVGGHNAPPKWPQVSLRVYSYHWASWAHICGGLIHPQWVLTAHCIFWKD  
TDPSIYRIHAGDVLYGGRGLLNVSRIIVHPNYVTAGLGADVALLQLEPHDLNVRTVKL  
SPVSLELTPKDCQWVTGWGAIIRKESLPPPYRLQQASVQVLENAVCEQPYRNASGHTGDR  
QLILDDMLCAGSEGRDSCYGDSSGGLVCRLRGSWRLVGVSWSWGYGCTLRDFPGVYTHVQI  
YVPWILQQVGELP

>sp|E7EML9|PRS44\_HUMAN Serine protease 44 OS=Homo sapiens GN=PRSS44 PE=3 SV=3  
MASQSGSSLLAWFLLLQPWLEEARAGRVGAQGGVALLFPSALPSGPGGQDPGASGWEP  
PPVGAPGSPAAPQSRGNARVPASVLLPSACGQRTSRITGGLPAPDRKWPQVSLQTSNRH  
ICGSLIARHWVLTAACHISGHLEYTVKLGDNTNVHRSKTALVVPVRDVVIHRYFTSPGI  
IENDIALALLDFPVNYSTHIQLVCLPEQAFMVQAGTNCWVTGWGKVNTEKIVTEPQEA  
LSIILHDKCNEVLKEKIRMSEMVKKGTCGYNDQGDACQGDSSGGLVCELNGTWVQVG  
IVSWGIGCGRKGYPGVYTEVSFYKKWIIDHLRQASCLNSKTSSS

>sp|POCW18|PRS56\_HUMAN Serine protease 56 OS=Homo sapiens GN=PRSS56 PE=1 SV=1  
MLLAVLLLLPLPSSWFAHGHPLYTRLPPSALQVLSAAGTQALQAAQSAQWAINRVAMEI  
QHRSHECRGSGRPRPQALLQDPPEPGPCGERRPSTANVTRAHGRIVGSAAPGAWPWL  
RLQLGGQPLCGGVLVAASWVLTAACHFVGAPNELLWTVTLAEGSRGEQAEVVPVNRILPH  
PKFDPRTFHNDLALVQLWTPVSPGGSARPVCLPQEPQEPAGTACAIAGWGALFEDGPEA  
EAVREARVPLLSTDTCRRALGPGLRPSTMLCAGYLAGGVDSQGDSSGGLTCSEPGPRPR  
EVLFGVTSWGDGCGEPGKPGVYTRVAVFKDWLQEOMSASSSREPSCRELLAWDPPQELQA  
DAARLCAFYARLCPGSQACARLAHQCLQRRRRCELRLAHTLLGLLRNAQELLGPRPG  
LRR LAPALALPAPALRESPLHPARELRLHSGSRAAGTRFPKRRPEPRGEANGCPGLEPLR  
QKLAALQGAHAWILQVPSEHLAMNFHEVLADLGSKTLTGLFRAWVRAGLGGRHVAFSGLV  
GLEPATLARSLPRLVQALQAFRVAALAEGEPEGPWMDVGQGPGLERKGGHPLNPQVPPA  
RQP

>sp|Q8IYP2|PRS58\_HUMAN Serine protease 58 OS=Homo sapiens GN=PRSS58 PE=2 SV=1  
MKFILLWALLNLTVALAFNPDYTVSSTPPYLVLKSDYLPAGVLIHPLVWITAHCNLP  
KLRVILGVTIPADSNEKHLQVIGYEKMIHHPHFSVTSIDHDIMLIKTEAELNDYVKLA  
NLPLYQTISENTMCSVSTWSYNVCDIYKEPDSLQTVNISVISKPQCRDAYKTYNITENMLC  
VGIVPGRRQPCKEVSAAPAICNGMLQGILSFADGCVLRADVGIYAKIFYIYPWIENVIQN  
N

>sp|P17980|PRS6A\_HUMAN 26S protease regulatory subunit 6A OS=Homo sapiens GN=PSMC3 PE=1  
SV=3  
MNLLPNIESPVTRQEKMATVWDEAEQDGIGEEVLKMSTEEIIQRTRLLDSEIKIMKSEVL  
RVTHELQAMKDKIKENSEKIKVNKTLPYLVSNVIELLDVDPNDQEEDGANIDLDSQRKKG  
CAVIKTSTRQTYFLPVIGLVDAEKLKPGDLVGVNKDSYLILETLPTDYDSRVKAMEVDER  
PTEQYSDIGGLDKQIQELVEAIVLPMNHKEKFENLGIQPPKGVLMYPPPGTGKTLARAC  
AAQTKATFLKLAGPQLVQMFIDGAKLVRDAFALAKEKAPSIIFIDELDAIGTKRFDSEK  
AGDREVQRTMLELLNQLDGFQPNQVQVIAATNRVDILDPALLRSGRLDRKIEFMPNNEE

MAPPLRPLARLRPPGMLLRALLLLLLSPLPGVWCFSELSFVKEPQDVTVTRKDPVVLDC  
QAHGEVPIKVTWLKNGAKMSENKRIEVLNGLSYISEVEGRRGEQSDEGFYQCLAMNKYG  
AII SQAHLALSTISAFEVQPISTEVEGGVARFACKISSHPPAVITWEFNRTTLPMTMD  
RITALPTGVLQIYDVSQRDSGNYRCIAATVAHRRKSMEASLTVIPAKESKSFHTPTIIAG  
PQNITTSLHQTVVLECMATGNPKPIISWSRLDHKSIDVFNTRVLGNGNLMISDVR LQHAG  
VYVCRATTPGTRNFTVAMATLTVLAPPSFVWEPSLTRPRAGTARFVCAEGIPSPKMSW

LKNGRKIHNSGRIKMYNSKLVINQIIPEDDAIYQCMANESQGSILSRARLTVVMSEDRPS  
APYNVHAETMSSSAILLAWERPLYNSDKVIAYSVHYMKAEGLNNEEYQVVIIGNDTTHYII  
DDLEPASNYTFYIVAYMPMGASQMSDHVTQNTLEDVPLRPPEISLTSRSTPDILISWLPI  
PAKYRRGQVVLRYLSFRLSTENSIQVLELPGTTHEYLLLEGLKPDVYLVRITAATRVGLG  
ESSVWTSHTPKATSVKAPKSPHELHLEPLNCTTISVRWQQDVEDTAAIQGYKLYYKEEGQ  
QENGPIFLDTKDLLYTLSGLDPRRKYHVRLLAYNNIDDGYQADQTVSTPGCVSVRDRMVP  
PPPPPHHLYAKANTSSSIFLHWRRPAFTAQIINYTIRCNPVGLQNASLVLYLQTSETHM  
LVQGLEPNTKYEFAVRLHVDQLSSPWSPPVYHSTLPEAPAGPPVGKVTLIEDDTALVSW  
KPPDGPETVVTRYTILYASRKAWIAGEWQVLHREGAITMALLNLVAGNVYIVKISASNE  
VGEGPFSNSVELAVLPKETSESNRQPKRLDSADAKVYSGYYHLDQKSMTGIAVGVGIALT  
CILICVLILYRSKARKSSASKTAQNGTQQLPRTSASLASGNEVGKNLEGAVGNEESLMP  
MIMPNSFIDAKGGTDLIINSYGPIIKNNSKKKWFFFQDSKKIQVEQPQRRTPAVCFYQP  
GTTVLISDEDSPPSGQTTSFSRPFGVAADTEHSANSEGSHTGDSGRFSHESNDEIHLS  
SVISTTPPNL

>sp|Q8WUY3|PRUN2\_HUMAN Protein prune homolog 2 OS=Homo sapiens GN=PRUNE2 PE=1 SV=3

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IPRTEFNFTETRFIILELNISESFHIFRDEINLHQLNDEGKLSITLVGSSVLASEDKTL  
ESAVVKVINPVEQSDANVEFRESSSLVLKEILQEAPELITEQLAHLRGSILFKWMTME  
SEKISEKQEEILSILEEKFPNLPPREDIINVLQETQFSAQGLSIEQTMLKDLKELSDGEI  
KVAISTVSMNLNCLFHSNITSDLKAFTDKFGFDVLILFSSYLSEEQQPRRQIAVYSEN  
ELCSQICCELEECQNPCLELEPFDCGDEILVYQQEDPSVTCQVVLVVKVINRRCP  
VSNRTSSTEAVAGSAPLSQGSSGIMELYGSDIEPQPSSVNFIEPPDLNDSNQAQVDAN  
VDLVSPDGLATIRSSRSKSSVFLSDDSPVGEGAGPHHTLLPGLDSYSPIPEGAVAE  
HAWSGEHGEHFDLNFDPAPMASGQSQQSSHSADYSPADFFPNSDLSEGQLPAGPEGLD  
GMGTNMSNYSSSSLLSGAGKDSLVEHDEEFVQRQDSPRDNSENLSTDFVGDSPSPER  
LKNTGKRIPPTPMNSLVESSPSTEAPSLYTEDMTQKATDTGHMGPPQTHARCSSWWGGL  
EIDSKNIADAWSSSEQESVFQSPESWKEHKPSSIDRRASDSVFQPKSLEFTKSGPWESEF  
GQPELGSNDIQDKNEESLPFQNLPMKSPLPNTSPQGTNHLIEDFASLWHSGRSPTAMPE  
PWGNPTDDGEPAAVAPFPAWSAFGKEDHDEALKNTWNLHPTSSKTPSVRDPNEWAMAKSG  
FAFSSSELLDNPSSEINNEAAPEIWGKKNDSRDHIFAPGNPSSDLHTWTNSKPPKEDQ  
NGLVDPKTRGKVYEKVDSWNLFEENMKKGGSDVLVPWEDSFLSYKCSDYASNLGEDSVP  
SPLDTNYSTSDSYTSPTFAGDEKETEHPFAKEEGFESKDGNSTAEETDIPPQSLQQSSR  
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DPSMMQLYNETNRQLTLLHSSTNSRQTAPDSLDLWNRVILEDTQSTATISDMDNDLDWDD  
CSGAAIPSDGQTEGYMAEGSEPETRFTVRQLEPWGLEQYQANQVDWELPASDEHTKDSA  
PSEHHTLNEKSGQLIANSIWDSVMRDKDMSSFMLPGSSHITDSEQRELPEIPSHSANVK  
DTHSPDAPAAAGTSESEALISHLDKQDTERETLQSDAASLATRLNPGYFPHDPWKHG  
DGQSESEKEAQGATDRGHLDEEEVIA SGVENASGISEKGQSDQELSSLVASEHQEICKS  
GKISSLAVTFSPQTEEPVEVLEYEEGSYNLDSRDVQTGMSADNLQPKDTHEKHLMSQRNS  
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HVSSTCSEITKNLDVKGSENSLPGAGSSGNFDRDTISSEYTHSSASSPELNDSSVALSSW  
GQQPSSGYQEENQGNWSEQNHQESELITTDGQVEIVTKVKDLEKNRINEFEKSFDRTPT  
FLEIWNDSVDGDSFSSLSPETGKYSEHSGTHQESNLIASYQEKNEHDISATVQPEDARV  
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LDSSEPAENENKSNPFCDNQQSSPDWTFSPLTETEMQITAVEKEKRSSPETGTTGDVAW  
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KFSQLVKLDQIKEKDSREQTFVSAAGDELT PETPTQEQCQDTMLPVC DHPDTAFTHAEEN  
SCVTSNVSTNEGQETNQWEQEKS YLGEMTNSSIATENFPAVSSPTQLIMKPGSEWDGSTP  
SEDSRGTFVPDILHG NFQEGGQLASAAPDLWIDAKKPFSLKADGENPDILTHCEHDSNSQ  
ASDSPDICH DSEAKQETEKHLSACMGPEVESSELCLTEPEIDEEPIYEPGREFVPSNAEL  
DSENATVLPPIGYQADIKGSSQ PASHKGSPEPSEINGDNSTGLQVSEKGASPDMAPILEP  
VDRRI PRIENVATSI FVTHQEPTPEGDGSWISDSFSPESQPGARALFDGDPHLSTENPAL  
VPDALLASDTCLDISEAAFDHSFSDASGLNTSTGTIDMSKLT LSEGHPETVPDGD LGKQ  
DICSSEASWGDFEYDVMQNIDEDLLREPEHFLYGGDPPEEDSLKQSLAPYTPPFDL SY  
LTEPAQSAETIEEAGSPEDES LGCRAAEIVLSALPDRRSEGNQAETKNRLPGSQLAVLHI  
REDPESVYLPVGAGSNILSPSNVDWEVETDNSDLPAGGDIGPPNGASKEISELEEEK TIP  
TKEPEQIKSEYKEERCTEKNEDRHALHMDYILVNREENSHSKPETCEERESIAELELYVG  
SKETGLQGTQLASFPDTCQPASLNERKGLSAEKMSSKSDTRSSFESPAQDQSWMFLGHSE  
VGDPSLDARDSGPGWSGKTVEPFSELGLGEGPQLQILEEMKPLESLALEEASGPVSQSQK  
SKSRGRAGPDAVTLQAVTHDNEWEMLSPPVQKNMIPDTEMEETEFLELGTRISRPNGL  
LSEVDGMDIPFEEGVLSPSAADMRPEPPNSLDLNDTHPRRIKLTAPNINSLDQSEGSIL  
SDDNLDSPDEIDINVELDTPDEADSFEYTGHDPTANKDSGQESESIPEYTAEEEREDNR  
LWRTV VIGEQEQRIDMKVIEPYRRVISHGGYYGDGLNAIIVFAACFLPDSSRADYHYVME  
NLFLYVISTLELMAEDYMIVYLN GATPRRRMPGLGWMKKCYQMIDRR LRKNLKSFIIVH  
PSWFIRTI LAVTRPFISSKFSSKIYVNSLSELSGLIPMDCIHIPESIIKLDEELREASE  
AAKTSCLYNDPEMSSMEKDIDLKLEKP

>sp|P20472|PRVA\_HUMAN Parvalbumin alpha OS=Homo sapiens GN=PVALB PE=1 SV=2

MSMTDLLNAEDIKAVGA FSATDSFDHKKFFQMVLKKKSADDVKKVFHMLDKDKSGFIE  
EDELGFILKGFSPDARDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES

>sp|P25786|PSA1\_HUMAN Proteasome subunit alpha type-1 OS=Homo sapiens GN=PSMA1 PE=1 SV=1

MFRNQYDNDVTWSPQGRIHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAHQ  
KKILHVDNHIGIS IAGLTADARLLCNFMRQECLDSRFVDRPLPVSRVSLIGSKTQIPT  
QRYGRRPYGVGLLIAGYDDMGPHIFQTCPSANYFDCRAMSIGARSQSARTYLERHMSEFM  
ECNLNELVKHGLRALRETLP AEQDLTTKNV SIGIVGKDLEFTIYDDDDVSPFLEGLEERP  
QRKAQPAQPADEPAEKADPEMEH

>sp|P28072|PSB6\_HUMAN Proteasome subunit beta type-6 OS=Homo sapiens GN=PSMB6 PE=1 SV=4

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSR TTTGSYI  
ANRVTDKLTPIHDRIFCCRSGSAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEM  
CYRYREDLMAGII IAGWDPQEGGQVYSVPMGMMVRQSFAIGGSGSSYIYGYVDATYREG  
MTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLGDQIPKFAVATLPPA

>sp|Q9UNM6|PSD13\_HUMAN 26S proteasome non-ATPase regulatory subunit 13 OS=Homo sapiens  
GN=PSMD13 PE=1 SV=2

MKDVPGF LQQSQNSGPGQPAVWHRL EELYTKKLWHQLTLQVLDFVQDPCFAQGDGLIKLY  
ENFISEFEHRVNPLSLVEIILHVVRQMTDPNVALTFLEKTREKVKSSDEAVILCKTAIGA  
LKL NIGDLQVTKETIEDVEMLNLPGVTSVHSRFYDLSSKYYQTIGNHASYYKDALRFL  
GCVDIKDLPVSEQQERAFTLGLAGLLGEGVFNFGELLMHPVLES LRNTDRQWLIDTLYAF  
NSGNVERFQTLKTAWGQQPD LAANEAQLLRKIQLLC LMEMTFTRPANHRQLTFEEIAKSA

KITVNEVELLMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKGMDRLEFWCTDV  
KSMEMLVEHQAHDILT

>sp|Q9NYI0|PSD3\_HUMAN PH and SEC7 domain-containing protein 3 OS=Homo sapiens GN=PSD3  
PE=1 SV=2

MEGRSAAAEFTVWVNNASAHSQSVAKAKYEFLLGRSEGGKAPDTS DHGGSTLLPPNVTNEF  
PEYGTMEEGGGLRASLEFDGEALPCHPQEQQGVQPLTGCHSGLDSVTEGPKDVREAPSQ  
SHLKEQSLQPIDSLISALKATEARIISGTLQATKVLDQDAVSSFSVQQVEKELDTASRKT  
QRVNKTLPAGQKNLPEIPLSAEVTTEESFYLSIQKDLTALLTGDTQAEISQIMNNGRKGA  
VCVQEPSCPLASLGSSAVTCHSAGSVGFLKEQRSALGREHPGGCDRSSMGRPGRVKHVE  
FQGVEILWTGGDKRETQHPIDFETSLQRTASPDSESSKVPRHLISSAGLCNSSSLTENV  
WDESWKAPSERPGTSSGTFSPVRLDESGEDEVFLQENKQHLEKTPKPERDRERISEQEEH  
VKGEDEDILPGPYTEDSTDVYSSQFETILDNTSLYSAESLETLYSEPDSYFSFEMPLTP  
MIQQRIKEGGQFLERTSGGGHQDILSVSADGGIVMGYSSGVTNGLNDASDSIYTKGTPEI  
AFWGSNAGVKTTRLEAHSEMGSTEILEKETPENLSNGTSSNVEAAKRLAKRLYQLDRFKR  
SDVAKHLGKNNFESKLVAEEYLKFFDFTGMTLDQSLRYFFKAFLVGETQERERVL IHFS  
NRYFYCNPDTIASQDGVHCLTCAIMLLNTDLHGHVNIGKKMTCQEFIANLQGVNEGVD FS  
KDLLKALYNSIKNEKLEWAVDDEEKKKSPSESTEKANGTHPKTISRIGSTTNPFLDIPH  
DPNAAVYKSGFLARKIHADMDGKKTPRGKRGWKTFYAVLKGTVLYLQKDEYKPEKALSEE  
DLKNAVSVHHALASKATDYEEKPNVFKLKTADWRVLLFQTQSPEEMQGWINKINCVAAVF  
SAPPFPAAIGSQKKFSRPLLPATTTKLSQEEQLKSHESKLKQITTELAEHSYPPDKKVK  
AKDVDEYKLDHYLEFEKTRYEMYVSILKEGGKELLSNDESEAAGLKKSHSSPSLNPDT S  
PITAKVKRNVSEKDRHPETPSIKQKVT

>sp|O00487|PSDE\_HUMAN 26S proteasome non-ATPase regulatory subunit 14 OS=Homo sapiens  
GN=PSMD14 PE=1 SV=1

MDRLLRLGGGMPGLGQGPPTDAPAVDTAEQVYISSLALLKMLKHGRAGVPMEVMGLMLGE  
FVDDYTVRVIDVFAMPQSGTGVSVEAVDPVFQAKMLDMLKQTGRPEMVVGWYHSHPGFGC  
WLSGVDINTQQSFEALSERAVAVVVDPIQSVKGKVVIDAFRLINANMMVLGHEPRQTTSN  
LGHLNKPISIALIHGLNRHYYSITINYRKNELEQKMLLNHKKSWMEGLTLQDYSEHCKH  
NESVVKEMLELAKNYNKAVEEEDKMTPEQLAIKNVGKQDPKRHLEEHVDVLMTSNIVQCL  
AAMLDTVVFK

>sp|Q15008|PSMD6\_HUMAN 26S proteasome non-ATPase regulatory subunit 6 OS=Homo sapiens  
GN=PSMD6 PE=1 SV=1

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LDWQIDVDLLNMKKANEDELKRLDEELED AEKNLGESEIRDAMMAKAEYLCRIGDKEGA  
LTAFRKTYDKTVALGHRLDIVFYLLRIGLFYMDNDLITRNTAKSLIEEGGDWDRRNRL  
KVYQGLYCVAIRDFKQAAELFLDTVSTFTSYELMDYKTFVYTYVYSMIALERPDLREKV  
IKGAEILEVLHSLPAVRQYLFSLYECRYSVFFQSLAVVEQEMKKDWLFAPHYRYVREMR  
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>sp|P25105|PTAFR\_HUMAN Platelet-activating factor receptor OS=Homo sapiens GN=PTAFR PE=1  
SV=1

MEPHDSSHMDSEFRYTLFPIVYSIIIFVLGVIANGYVLWV FARLYPCKKFNEIKIFMVNLT  
MADMLFLITLPLWIVYYQNQGNWILPKFLCNVAGCLFFINTYCSVAFLGVITYNRFQAVT  
RPIKTAQANTRKRGISLSLVIWVAIVGAASYFLILDSTNTVPDSAGSGNVTRCFEHYEKG

SVPVLIIHIFIVFSFFLVFLIILFCNLV IIRTLMLQPVQQQRNAEVKRRALWMVCTVLAV  
FIICFVPHHVQLPWTLAELGFQDSKFHQAINDAHQVTLCLLSTNCVLDPVIYCFLTKKF  
RKHLTEKFYSMRSSRKCSRATTDVTEVVVFPNQIPGNSLKN

>sp|095758|PTBP3\_HUMAN Polypyrimidine tract-binding protein 3 OS=Homo sapiens GN=PTBP3  
PE=1 SV=2

MDGVVTDLITVGLKRGSDLLSSGIINGPFTMNSSTPSTANGNDSKKFKRDRPPCSPSRV  
LHLRKIPCDVTEAEIISLGLPFGKVTNLLMLKGKSQAFLEMASEEAAVTMVNYYTPITPH  
LRSQPVIYQYNSHRELKTDNLPNQARAQAALQAVSAVQSGSLALSGGPSNEGTVLPGQSP  
VLRII IENLFYPVTLEVLHQIFSKFGTVLKIITFTKNNQFQALLQYADPVNAHYAKMALD  
GQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDFTRLDLPTGDGQPSLEPPMAAAFAPGI  
ISSPYAGAAGFAPAIGFPQATGLSVPAVPGALGPLTITSSAVTGRMAIPGASGIPGNSVL  
LVTNLPDLITPHGLFILFGVYGDVHRVKIMFNKKENALVQMADANQAQLAMNHLGGRL  
YGKVL RATLSKHQAVQLPREGQEDQGLTKDFSNSPLHRFKKPGSKNFQNI FPPSATLHLS  
NIPPSVTVDLKNLFI EAGCSVKAFKFFQKDRKMALIQLGSV EEA IQALIELHNHDLGEN  
HHLRVSFSKSTI

>sp|Q13635|PTC1\_HUMAN Protein patched homolog 1 OS=Homo sapiens GN=PTCH1 PE=1 SV=2

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ALEQISKGKATGRKAPLWLRKFQRLFLKLCYIQKNCGKFLVVGLLIFGAFVGLKAAN  
LETNVEELWVEVGGRVSRELNYTRQKIGEEAMFNPQLMIQTPKEEGANVLTTEALLQHLD  
SALQASRVHVYMYNRQWKLEHL CYKSGELITETGYMDQIIEYLYPCLIIITPLDCFWE GAK  
LQSGTAYLLGKPPLRWTNFDPLEFLEELKKINYQVDSWEEMLNKAEVGHGYMDRPNLPA  
DPDCPATAPNKNSTKPLDMALVLNGGCHGLSRKYMHWQEELIVGGTVKNSTGKL VSAHAL  
QTMFQLMTPKQMYEHFKGYEYVSHINWNEDKAAAILEAWQRTYVEVVHQSV AQNSTQKVL  
SFTTTTLD DILKSFDVSVIRVASGYLLMLAYACL TMLRWDCSKSQGAVGLAGVLLVALS  
VAAGLGLCSLIGISFNAATTQVLPFLALGVGVDDVFLLAHAFSETGQNKRI PFEDRTGEC  
LKRTGASVALTSISNVTAFMAALIPALRAFSLQA AVVVVFNFAMVLLIFPAILSMDL  
YRREDRRLDIFCCFTSPCVSRVIQVEPQAYTDTHDNTRYSPPPPYSSHSFAHETQITMQS  
TVQLRTEYDPHTHVYYTTAEPRSEISVQPVTVTQDTLSCQSPESTSSTRDLLSQFS DSSL  
HCLEPPCTKWTLS SFAEKHYAPFLKPKAKVVVIFLFLGLLGVSLYGTTRVRDGLDLTDI  
VPRETREYDFIAAQFKYFSFYNNYIVTQKADYPNIQHLLYDLHRSFSNVKYVMLEENKQL  
PKMWLHYFRDWLQGLQDAFDS DWETGKIMPNNYKNGSDDGVLAYKLLVQTGSRDKPIDIS  
QLTKQRLVDADGIINPSAFYIYLTAWVSNDPVAYAASQANIRPHRPEVWHDKADYMPETR  
LRIPAAEPIEYAQFPFYLNGLRDTSDFVEAIEKVRTICSNYTSLGLSSYPNGYPFLFWEQ  
YIGLRHWLLL FISVVLACTFLVCAVFLNPNWTAGIIVMVLALMTVELFGMMGLIGIKLSA  
VPVVILIASVGIGVEFTVHVALAFLTAIGDKNRRAVLALEHMFAPVLDGAVSTLLGV LML  
AGSEFDFIVRYFFAVLA ILTILGVLNGLVLLPVLLSFFGPYPEVSPANGLNRLPTPSPEP  
PPSVVRFAMP PGHTHSGSDSSDSEYSSQTTVSGLSEELRH YEAQQGAGGPAHQVIVEATE  
NPVFAHSTVVHPESRHHPPSNPRQQPHLDSGSLPPGRQQQPRRDPPREGLWPPPYRPRR  
DAFEISTEGHSGPSNRARWGPRGARSHNPRNPASTAMGSSVPGY CQPITTVTASASVTVA  
VHPPPVPGPRNPRGGLCPGYPETDHGLFEDPHVPFHVRCERRDSKVEVIELQDVECEER  
PRGSSSN

>sp|Q96EY7|PTCD3\_HUMAN Pentatricopeptide repeat domain-containing protein 3,  
mitochondrial OS=Homo sapiens GN=PTCD3 PE=1 SV=3

MAVVS AVRWLGLRSRLGQPLTGRRAGLCEQARSCR FYSGSATLSKVEGTDVTGIEEVVIP

KKKTWDKVAVLQALASTVNRDTTAVPYVFQDDPYLMPASSLESRSFLLAKKSGENVAKFI  
INSYPKYFQKDIAEPHIPCLMPEYFEPQIKDISEAALKERIELRKVKASVDMFDQLLQAG  
TTVSLETTNSLLDLLCCYGDQEPSTDYHFQQTGQSEALEEENDETSRRKAGHQFGVTWRA  
KNNARIFSLMPEKNEHSYCTMIRGMVKHRAQEALNLYTELLNNRLHADVYTFNALIEA  
TVCAINEKFEEKWSKILELLRHMVAQKVKNLQTFNTILKCLRRFHV FARSPALQVLREM  
KAIGIEPSLATYHHIIRLFDQPGDPLKRSSFIIYDIMNELMGKRFSPKDPDDDKFFQSAM  
SICSSLRDLELAYQVHGLLKTGDNWKFIPGDQHRNFYYSKFFDLICLMEQIDVTLKWYED  
LIPSAYFPHSQTMIHLLQALDVANRLEVIPKIWKDSKEYGHTFRSDLREEILMLMARDKH  
PPELQVAFADCAADIKSAYESQPIRQTAQDWPATSLNCIAILFLRAGRTQEAWKMLGLFR  
KHNKIPRSELLNELMDSAKVSNSPSQAIEVVELASAFSLPICEGLTQRVMSDFAINQEQK  
EALSNTALTSDSDTDSSSDSDSDTSEGG

>sp|Q6ISU1|PTCRA\_HUMAN Pre T-cell antigen receptor alpha OS=Homo sapiens GN=PTCRA PE=1 SV=1

MAGTWLLLLLALGCPALPTGVGGTPFPPLAPPIMLLVDGKQQM VVVCLVLDVAPPGLDSP  
IWFSAAGSALDAFTYGPSPATDGTWNLHLNLPSEELASWEPLVCHTGPGAEGHSRST  
QPMHLSGEASTARTCPQEPLRGTPGGALWLGVLRLLLFKLLLFDLLLTCSCLCDPAGPLP  
SPATTRLRALGSHRLHPATETGGREATSSPRPQPRDRRWGDTTPGRKPGSPVWEGESYL  
SSYPTCPAQAWCSRSALRAPSSSLGAFFAGDLPPPLQAGAA

>sp|Q7RTS3|PTF1A\_HUMAN Pancreas transcription factor 1 subunit alpha OS=Homo sapiens GN=PTF1A PE=1 SV=1

MDAVLLEHFPGLDAFPSSYFDEDDFFTDQSSRDPLEDGDDELLADEQAEVEFLSHQLHEY  
CYRDGACLLLQPAPPAAPLALAPPSSGGLGEPDDGGGGGYCETGAPPGGFYSPGSPPS  
CLAYPCAGAAVLSPGARLRGLSGAAAAAARRRRRVRSEAEQQLRQAANVRERRRMQSIN  
DAFEGLRSHIPTLPYEKRLSKVDTLRLAIGYINFLSELVQADLPLRGGGAGCGGPGGGG  
RLGGDSPGSQAQKVIICHRGTRSPSPSDPDYGLPPLAGHSLSWTDEKQLKEQNIIRTAKV  
WTPEDPRKLNSKSSFNNIENEPPEFVS

>sp|P23468|PTPRD\_HUMAN Receptor-type tyrosine-protein phosphatase delta OS=Homo sapiens GN=PTPRD PE=1 SV=2

MVHVARLLLLLLTFFLRDTAETPPRFTRTPVDQTVSGGVASFICQATGDPRPKIVWNKK  
GKKVSNQRFEVIEFDDGSGSVLRIQPLRTPRDEAIYECVASNNVGEISVSTRLTVLREDQ  
IPRGFPTIDMGPQLKVVERTRTATMLCAASGNPDPEITWFKDFLPVDTSNNGRIKQLRS  
ESIGGTPIRGALQIEQSEESDQGYECVATNSAGTRYSAANLYVRELREVRVPFRFSI  
PPTNHEIMPGGSVNICVAVGSPMPYVKWMLGAEDLTPEDDMPIGRNVLELNDVRQSANY  
TCVAMSTLGVIEAIAQITVKALPKPPGTPPVTESTATSITLTWDSGNPEPVSYIIQHKP  
KNSEELYKEIDGVATTRYSVAGLSPYSDYEFRRVAVNNIGRGPPSEPVLTQTSEQAPSSA  
PRDVQARMLSSTTILVQWKEPEEPNGQIQGYRVYYTMDPTQHVNNWMKHNVADSQITTIG  
NLVPQKTYSVKVLAFSTISGDGLSSDIQVITQTGVPGQPLNFKAPESETSILLSWTPPR  
SDTIANYELVYKDGEHGEEQRITIEPGTSYRLQGLKPNLSLYFRLAARSPQGLGASTAEI  
SARTMQSKPSAPPQDISCTSPSSTSILVSWQPPPVEKQNGIITEYSIKYTAVDGEDDKPH  
EILGIPSDTTKYLLEQLEKWTEYRITVTAHTDVGPGPESLSVLIRTNEDVPSGPPRKVEV  
EAVNSTSVKVSWSRSPVPNKQHGQIRGYQVHYVRMENGEPKGQPMKDVMLADAQWEFDDT  
TEHDMIISGLQPETSYSLTVTAYTTKGDGARSKPKLVSTTGAVPGKPRLVINHTQMENTAL  
IQWHPPVDTFGLQGYRLKFRKDMPELTTLEFSEKEDHFTATDIHKGASYVFRLSARNK  
VGFGEEMVKEISIPEEVPTGFPQNLHSEGTSTSVQLSWQPPVLAERNGIITKYTLLYRD

INIPLLPMEQLIVPADTTMTLTGLKPDTTYDVKVRAHTSKGPGPYSPSVQFRTL PVDQVF  
AKNFHVKA VMKTSVLLSWEIPENYN SAMPFKILYDDGKMVEEVDGRATQKLIVNLKPEKS  
YSFVL TNRGNSAGGLQHRVTAKTAPDVLRTKPAFIGKTNL DGMITVQLPEVPANENIKGY  
YIIIVPLKKS RGF IKPWESPDEMEDELLEKISRKRRSIRYGREVELKPYIAAHFDVLP  
TEFTLGDDKH YGGFTNKQLQSGQEYVFFVLAVMEHAESKMYATSPYSDPVVSM DLDPPQPI  
TDEEEGLIWVVG PVLAVVFIICIVIAILLYKRKRAESDSRKSSIPNNKEIPSHHPTDPVE  
LRLNLFQT PGMASHPPIPILELADHIERLKANDNLKFSQEYESIDPGQQFTWEHSNLEVN  
KPKNRYANV IAYDHSRVLLSAIEGIPGSDYVNANYIDGYRKQ NAYIATQGSLPETFGDFW  
RMIWEQRSATV VMMTKLEERSRVKCDQYWPSRG TETHGLVQVTLLDTVELATYCVRTFAL  
YKNGSSEKREVRQFQFTAWPDHGVPEHPTPFLAFLRRVKTCNPPDAGPMVVHCSAGVGRT  
GCFIVIDAMLERIKHEKTVDIYGHVTLMRAQRN YMVQTEDQYIFIH DALLEAVTCGNTEV  
PARNL YAYIQKLTIETGENVTGMELEFKRLASSKAHTSRFISANLPCNKFKNRLVNIMP  
YESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQG PLAETTEDFWRMLWEHNSTIV  
VMLTKLREMGREKCHQYWPASARYQYFVVDPM AEYNMPQYILREFKVT DARDGGQSRV  
RQFQFTDWPEQGVKPSGEGFIDFIGQVHKTK EQFGQGPISVHCSAGVGRTGVFITLSIV  
LERMRYEGVVDIFQTVKMLRTQRPAMVQTEDQYQFSYRAALEYLG SFDHYAT

>sp|P10586|PTPRF\_HUMAN Receptor-type tyrosine-protein phosphatase F OS=Homo sapiens  
GN=PTPRF PE=1 SV=2

MAPEPAPGRTMVPLVPALVMLGLVAGAHGDSKPVFIKVPEDQTGLSGGVASFVCQATGEP  
KPRITWMKKGKKVSSQRFEVIEFDDGAGSVLR IQPLRVQRDEAIYECTATNSLGEINTSA  
KLSVLEEEQLPPGFP SIDMGPQLKVVEKARTATMLCAAGGNPDPEISWFKDFLPVDPATS  
NGRIKQLRSGALQIESSEESDQGYECVATNSAGTRY SAPANLYVRVRRVAPRFSIPPSS  
QEVMPGGSVNLTCVAVGAPMPYV KWMMAEELTKEDEMPVGRNVLELSNVVRSANYTCVA  
ISSLGMIEATAQVTVKALPKPIDLVVTETTATSVTLTWDSGNSEPV TYYGIQYRAAGTE  
GPFQEVDGVATTRYSIGGLSPFSEYAFRVLAVNSIGRGPPEAVRARTGEQAPSSPPRRV  
QARMLSASTMLVQWEPPEEPNGLVRGYRVYYTPDSRRPPNAWHKHNTDAGLLTTVGSLLP  
GITYSLRVLAFTAVGDGPPSPTIQVKTQQGVPAQPADFQAEVESDTRIQLSWLLPPQERI  
IMYELVYWAAEDEDQHKVTFDPTSSYTLEDLKPDTLYRFQLAARSDMGVGVFTPTIEAR  
TAQSTPSAPPQKVMCVSMGSTTVRVSWVPPPADSRNGVITQYSVAYEAVDGEDRGRHVVD  
GISREHSSWDLVGLEKWTEYRVVWRAHTDVGPGPESSPVLVRTDEDVPSGPPRKVEVEPL  
NSTAVHVYWKLPVPSKQH GQIRGYQVTVVRLENGEP RGLPIIQDVMLAEAQWRPEESEDY  
ETTISGLTPETTVSVTVAAYTTKG DGARSKPKIVTTTGAVPGRPTMMISTTAMNTALLQW  
HPPKELPGELLYRLQYCRAD EARPNTIDFGKDDQHFTVTGLHKGTTYIFRLAAKNRAGL  
GEEFEKEIRTPEDLP SGFPQNLHVTGLTTSTTELAWDPPVLAERNGRIISYTVVFRDINS  
QQELQNIITDTRFTLTGLKPDTTYDIK VRAWTSKSGPLSPSIQSRTMPVEQVFAKNFRV  
AAAMKTSVLLSWEVPDSYKSAVPFKILYNGQSVEVDGHS MRKLIADLQPNTEYSFVLMNR  
GSSAGGLQHLVSIRTAPDLLPHKLPASAYIEDGRFDLSMPHVQDPSLVRWFYIVVVPID  
RVGGSMLTPRWSTPEELELDELLEAIEQGGEEQRRRRRQAERLKPYVAAQLDVL PETFTL  
GDKKNYRGFYNRPLSPDLSYQCFVLASLKEPMDQKRYASSPYSDEIVVQVTPAQQQEEPE  
MLWVTGPVLAVILIIILVIAIILLFKRKRTHSPSSKDEQSIGLKDSLLAHSSDPVEMRRLN  
YQTPGMRDHPPIPITDLADN IERLKANDGLKFSQEYESIDPGQQFTWENS NLEVNKPKNR  
YANV IAYDHSRVILTSIDGVPGSDYINANYIDGYRKQ NAYIATQGPLPETMGDFWRMVWE  
QRTATVMMTRLEEKSRVKCDQYWPARGTETCGLIQVTLLDTVELATYTVRTFALHKSGS  
SEKREL RQFQFMAWPDHGVPEYPTPILAF LRRVKACNPLDAGPMVVHCSAGVGRTGCFIV

IDAMLERMKHEKTVDIYGHVTCMRSQRNYMVQTEDQYVFIHEALLEAATCGHTEVPARNL  
YAHIQKLGQVPPGESVTAMELEFKLLASSKAHTSRFISANLPCNKFKNRLVNIMPYELTR  
VCLQPIRGVEGSDYINASFLDGYRQQKAYIATQGPLAESTEDFWRMLWEHNSTIIIVMLTK  
LREMGREKCHQYWAERSARYQYFVVDPMAEYNMPQYILREFKVTDARDGQSRTIRQFQF  
TDWPEQGVPKTGEGFIDFIGQVHKTEQFGQDGPITVHCSAGVGRTGVFITLSIVLERMR  
YEGVDMFQTVKTLRTQRPAMVQTEDQYQLCYRAALEYLG SFDHYAT

>sp|P23470|PTPRG\_HUMAN Receptor-type tyrosine-protein phosphatase gamma OS=Homo sapiens  
GN=PTPRG PE=1 SV=4

MRRLLEPCWWILFLKITSSVLHYVVCFPALTEGYVGALHENRHGSAVQIRRRKASGDPYW  
AYSGAYGPEHWVTSSVSCGGRHQSPIDILDQYARVGEEYQELQLDGFDNESNKTWMKNT  
GKTVAILLKDDYFVSAGLPGRFKAKEKVEFHGHSNGSAGSEHSINGRRFPVEMQIFFYN  
PDDDFSQTAISENRIIGAMAIFFQVSPRDNALDPIIHGLKGVVHHEKETFLDPFVLRD  
LLPASLGSYYRYTGSLLTPPCSEIVEWIVFRRPVPISYHQLAEFYISIFTEQQDHVKSVE  
YLRNNFRPQQRLHDRVVSKSAVRDSWNHDMTDFLENPLGTEASKVCSSPPIHMKVQPLNQ  
TALQVSWSQPETIYHPPIMNYMISYSWTKNEDEKEKTFTKDSDKDLKATISHVSPDSL  
YLFVRVAVCRNDRSDFSQTMLFQANTTRIFQGTTRIVKTGVPTASPASSADMAPISSGSSTW  
TSSGIPFSFVSMATMGMPSSSSGSQATVASVVTSTLLAGLGFGGGISSFPSTVWPTRLPT  
AASASKQAARPVLATTEALASPGPDGDSSPTKDGEETEEGEKDEKSESEDGEREHEEDGE  
KDSEKKEKSGVTHAAEERNQTEPSPTPSSPNRTAEGGHQTI PGHEQDHTAVPTDQTGGRR  
DAGPGLDPMVTSTQVPPTATEEQYAGSDPKRPEMPSKKPMSRGDRFSEDSRFITVNP  
AEKNTSGMISRPAPGRMEWIIPLIVVSALT FVCLILLIAVLVYWRGCNKIKSKGFPRRFREV  
PSSGERGEKGSRKCFQTAHFYVEDSSSPRVVPNESIPIPIPDMEAI PVKQFVKHIGEL  
YSNNQHGFSEDFEEVQRCTADMNITAEHSNHPENKHKNRYINILAYDHSRVKLRPLPGD  
SKHSDYINANYVDGYNAKAYIATQGPKSTFEDFWRMIWEQNTGIIVMITNLVEKGRRK  
CDQYWPTEENSEEYGNII VTLKSTKIHACYTVRRFSIRNTKVKKGQKGNPKGRQNERVVIQ  
YHYTQWPDMPVEYALPVLT FVRRSSAARMPETGPVLVHCSAGVGRTGTIYIVIDSMLQQI  
KDKSTVNVLGFLKHIRTQRNYLVQTEEQYIFIHDALLEAILGKETEVSSNQLHSYVNSIL  
IPGVGGKTRLEKQFKLVTQCNAKYVECFSAQKECNKEKNRNSVVPSEARARVGLAPLPGM  
KGTDYINASYIMGYRSNEFIITQHPLPHTTKDFWRMIWDHNAQII VMLPDNQSLAEDEF  
VYWPSREESMNCEAFTVTLISKDRLCLSNEEQII IHDFILEATQDDYVLEVRHFQCPKWP  
NPDAPISSTFELINVIKEEALTRDGPTIVHDEYGAVSAGMLCALTLSQQLENENAVDVF  
QVAKMINLMRPGVFTDIEQYQFIYKAMLSLVSTKENGNGPMTVDKNGAVLIADES  
DPAESMESLV

>sp|P28066|PSA5\_HUMAN Proteasome subunit alpha type-5 OS=Homo sapiens GN=PSMA5 PE=1 SV=3

MFLTRSEYDRGVNTFSPEGRLFQVEYAIEA IKLGSTAIGIQTSEGVCLAVEKRITSPLME  
PSSIEKIVEIDAHIGCAMSGLIADAKTLIDKARVETQNHWFYNETMTVESVTQAVSNLA  
LQFGEEADDPGAMSRPFGVALLFGGVDEKGPQLFHMDPSGTFVQCDARAIGSASEGAQSS  
LQEVYHKSMTLKEAIKSSLIILKQVMEEKLNATNIELATVQPGQNFHMTKEELEEV  
IKDI

>sp|A6NEC2|PSAL\_HUMAN Puromycin-sensitive aminopeptidase-like protein OS=Homo sapiens  
GN=NPEPPSL1 PE=2 SV=3

MWLA AAPSLARRLLFLGPPPPPLLLLVFSRSSRRRLHSLGLAAMPEKRPFERLPADVSP  
INCSLCLKPDLLDFTFEGKLEAAQVRQATNQIVMNCADIDIITASYAPEGDEEIHATGF  
NYQNEDEKVTL SFPSTLQTGTGTLKIDFVGELNDKMKGFYRSKYTTSPSGEVRYAAVTQFE

ATDARRAFPCWDERAIKATFDISLVVPKDRVALSNMVIDRKYPDDENLVEVKFARTPV  
TSTYLAVFVVGEYDFVETRSGDVCVCVYTPVGKAEQGFALVAAKTLFPYKDYFNV  
PLPKIDLIAIADFAAGAMENWDLVITYRETALLIDPKNSCSSSRQWVALVVGHELAHQWFG  
NLVTMEWWTHLRLNEGFASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHP  
IEVSVGHPSEVDEIFDAISYSKASVIRMLHDYIGDKDFKKGMNMYLTKFQQKNAAGNL

>sp|P20618|PSB1\_HUMAN Proteasome subunit beta type-1 OS=Homo sapiens GN=PSMB1 PE=1 SV=2

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEG  
FSIHTRDSPKCYKLTDKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAML  
STILYSRRFFPYVYNIIGGLDEEGKGAVYSFDPVGSYQRDSFKAGGSASAMLQPLLDNQ  
VGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDALRICIVTKEGIREETVSLRK  
D

>sp|A5PKW4|PSD1\_HUMAN PH and SEC7 domain-containing protein 1 OS=Homo sapiens GN=PSD PE=1 SV=2

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GRVTAPCTPLRGPPSPRVAPSPWAPSSPTGQPPPGAQSSVVI FRFVEKASVRPLNGLPAP  
GGLSRSWDLGGVSPRPTPALGPGSNRKLRLASTSDPLPARGGSALPGSRNLVHGPPAP  
PQVGADGLYSSLNGLGGPPERLATLFGGPADTGFLNQGDWSSPREVSSHAQRIARAKW  
EFFYGLDPPSSGAKPPEQAPPSPPGVSGRQSGVAVGRAAKYSETDLDTVPLRCYRETD  
IDEVLAEREEADSAIESQPSSEGPPGTAYPPAPRPGPLPGPHPSLGSNGEDDDDEAGGE  
EDVDDEVFEASEGARPGSRMPLKSPVPFLPGTSPSADGPDFSFCVFEAILESHRAKGT  
SYTSLASLEALASPGPTQSPFFTFELPPQPPAPRPDPAPAPLAPLEPDSGTSSAADGPWTQ  
RGEERAEARAKLAPGREPPSPCHSEDSLGLGAAPLGSEPPLSQLVSDSDSELDSTERLA  
LGSTDTLNNGQKADLEAAQLAKRLYRLDGRKADVARHLGKNNDFSKLVAGEYLKFFVF  
TGMTLDQALRVFLKELALMGETQERERVLAHFSQRYFQCNEALSSDGAHTLTALMLL  
NTDLHGHNIGKRMTCGDFIGNLEGLNDGGDFPRELLKALYSSIKNEKLQWAIDEEELRRS  
LSELADPNPKVIKRISGGSGSGSPFLDLTPEPGAAYKHGALVRKVHADPDCRKT  
PRGKRGWKSFGHILKGMILYLQKEEYKPGKALSETELKNAISIHHA  
LATRASDYSKRPHVFYLR TADWRVFLFQAPSLEQM  
QSWITRINVVAAMFSAPPFPAAVSSQKKFSRPLLPSAATRLSQ  
EEQVRTHEAKLKAMASELREHRAAQLGKKGRGKEAEEQRQKEAYLEFEKSRYSTYAALLR  
VKLKAGSEELDAVEAALAQAGSTEDGLPPSHSSPSLQPKPSSQPRAQRHSSEPRPGAGSG  
RRKP

>sp|Q14691|PSF1\_HUMAN DNA replication complex GINS protein PSF1 OS=Homo sapiens GN=GIN1 PE=1 SV=1

MFCEKAMELIRELHRAPEGQLPAFNEGLRQVLEEMKALYEQNSDVNEAKSGGRSDLIP  
TIKFRHCSLLRNRRCTVAYLYDRLLRIRALRWEYGSVLPNALRFHMAAEEMWFNNYKRS  
LATYMRSLGGDEGLDITQDMKPPKSLYIEVRCLKDYGEFEVDDGTSVLLKKNSQHFLPRW  
KCEQLIRQGVLEHILS

>sp|Q9BRX5|PSF3\_HUMAN DNA replication complex GINS protein PSF3 OS=Homo sapiens GN=GIN3 PE=1 SV=1

MSEAYFRVESGALGPEENFLSLDDILMSHEKLPVRTETAMPRLGAFFLERSAGAETDNAV  
PQGSKLELPLWLAKGLFDNKRILSVELPKIYQEGWRTVFSADPNVVDLHKMGPHFYGFG  
SQLLHFDSPENADISQSLQTFIGRFRIMDSSQNAYNEDTSALVARLDEMERGLFQTGQ  
KGLNDFQCWEKGQASQITASNLVQNYKKRKFTDMED

>sp|P51665|PSMD7\_HUMAN 26S proteasome non-ATPase regulatory subunit 7 OS=Homo sapiens  
GN=PSMD7 PE=1 SV=2

MPELAVQKVVVHPLVLLSVVDHFNRIKVGNGKRVVGVLLGSWQKKVLDVSNSFAVPFDE  
DDKDDSVWFLDHDYLENMYGMFKKVNARERIVGWYHTGPKLHKNDIAINELMKRYCPNSV  
LVIIDVKPKDLGLPTEAYISVEEVHDDGTPTSKTFEHVTSEIGAEAEVGEHLLRDIK  
DTTVGTLSQRITNQVHGLKGLNSKLLDIRSYLEKVATGKLPINHQIIYQLQDVFNLLPDV  
SLQEFVKAFYLTNDQMVVVYLASLIRSVVALHNLINNKIANDAEKKEGQEKEESKKDR  
KEDKEKDKDEKSDVKKEEKKEKK

>sp|Q14997|PSME4\_HUMAN Proteasome activator complex subunit 4 OS=Homo sapiens GN=PSME4  
PE=1 SV=2

MEPAERAGVGEPPEPGGRPEPGRGFVPQKEIVYNKLLPYAERLDAESDLQLAQIKCNLG  
RAVQLQELWPGGLFWTRKLSYIRLYGRKFSKEDHVLFIKLLYELVSIPKLEISMMQGFA  
RLLINLLKKKELLSRADLELPWRPLYDMVERILYSKTEHLGLNWFPSNVENILKTLVKSC  
RPYFPADATAEMLEEWRLMCPFDVTMQKAITYFEIFLPTSLPELHHKGFKLWFDELIG  
LWVSQNLPLQWEGQLVNLFARLATDNIGYIDWDPYVPKIFTRILRSLNLPVGSSQVLVPR  
FLTNAVYDIGHAVIWIITAMMGPSKLVQKHLAGLFNSITSFYHPSNNGRWLNKLMKLLQRL  
PNSVVRRLHRERYKKPSWLTPVPDShKLTQDVTDFVQCI IQPVLLAMFSKTGSLEAAQA  
LQNLALMRPELVIPPVLERTYPALETLTEPHQLTATLSCVIGVARSLVSGGRWFPEGPTH  
MLPLLMRALPGVDPNDFSKCMITFQFIATFSTLVPLVDCSSVLQERNDLTEVERELCSAT  
AEFEDFVLQFMDRCFGLIESSTLEQTREETETEKMTHELSVELGLSSTFSTILTQCSKE  
IFMVALQKVFNFSTSHIFETRVAGRMVADMCRRAVKCCPEESKLFVPHCCSVITQLTMN  
DDVLNDEELDKELLWNLQLLSEITRVDGRKLLLYREQLVKILQRTLHLTCKQGYTLSCNL  
LHLLRSTTLIYPTCYSPVGGFDKPPSEYFPIKDWGKPGDLWNLGIQWHVPSSEEVSFA  
FYLLDSFLQPELVKLQHCQDGKLEMSRDDILQSLTIVHNCLIGSGNLLPPLKGEPVTNLV  
PSMVSLEETKLYTGLEYDLSRENHREVIATVIRKLLNHILDNSEDDETKSLFLIIKIIIGDL  
LQFQSGSHKHEFDSRWKSFNLVKKSMENRLHGKKQHIRALLIDRVMLQHELRTLTVEGCEY  
KKIHQDMIRDLLRLSTSSYSQVRNKAQQTFFAALGAYNFCCRDIIPLVLEFLRPDRQGVT  
QQQFKGALYCLLGNHSGVCLANLHDWDCIVQTPAIVSSGLSQAMSLEKPSIVRLFDDLA  
EKIHRQYETIGLDFITPKSCVEIAELLQQSKNPSINQILLSPEKIKEGIKRQQEKNADAL  
RNYENLVDTLLDGVEQRNLPWKFEHIGIGLLSLLLRRDRLPLRAIRFFVENLNHDAIVV  
RKMAISAVAGILKQLKRTHKLTINPCEISGCPKPTQIIAGDRPDNHLHYDSKITIPRTK  
KEWESSCFVEKTHWGYTWPKNMVVYAGVEEQPKLGRSREDMTEAEQIFDHFSDPKFVE  
QLITFLSLEDKRGKDKFNPRRCLFKGIFRNFDDAFLPVLKPHLEHLVADSHESTQRCVA  
EIIAGLIRGSKHWTFEKVEKLWELLCPLLRTALSNTITVETYNDWGACIATSCESRDPRKL  
HWFELLESPLSGEGGSFVDACRLYVLQGGLAQQEWRVPELLHRLKYLEPKLTQVYKN  
VRERIGSVLTYIFMIDVSLPNTTPTISPHVPEFTARILEKLKPLMDVDEEIQNHVMEENG  
IGEEDERTQGIKLLKTLKWLMAAGRSFSTAVTEQLQLPLFFKIAPVENDNSYDELKR  
DAKLCLSLMSQGLLYPHQVPLVLQVLKQTARSSSWHARYTVLTYLQTMVFYNLFIFLNNE  
DAVKDIRWLVISLLEDEQLEVREMAATTLGLLQCNFLTMDSPMQIHFEQLCKTKLPKKR  
KRDPGSVGDTIPSAELVKRHAGVLGLGACVLSSPYDVPTWMPQLLMNLSAHLNDPQPIEM  
TVKKTLSNFRRTHHDNWQEHKQQFTDDQLLVLTDLVSPCYA

>sp|P49768|PSN1\_HUMAN Presenilin-1 OS=Homo sapiens GN=PSN1 PE=1 SV=1  
MTLPAPLSYFQNAQMSDNHLSNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSR  
QVVEQDEEEDEELTKYGAKHVIMLFVPVTLCMVVVATIKSVSFYTRKDGQLIYTPFTE



DTETVGQRALHSILNAAIMISVIVMTILLVVLKYRCYKVIHAWLISSLLLLFFFSFI  
YLGEVFKTYNVAVDYITVALLIWNFGVVMISIHWKGPLRLQQAYLIMISALMALVFIKY  
LPEWTAWLILAVISYVDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTMVWLVNMAE  
GDPEAQRRVSKNSKYNAESTERESQDTVAENDDGGFSEWEAQRDShLGPHRSTPESRAA  
VQELSSSILAGEDPEERGVKLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCL  
TLLLLAIFKKALPALPISITFGLVFYFATDYLVPFMDQLAFHQFYI

>sp|O15172|PSPHL\_HUMAN Putative phosphoserine phosphatase-like protein OS=Homo sapiens  
GN=PSPHP1 PE=5 SV=1

MASASCSPGGALASPEPGRKILPRMISHSELRKLFYSADAVCFDSDTVISEEGIGCFHW  
IWRKCDQATSQG

>sp|Q16647|PTGIS\_HUMAN Prostacyclin synthase OS=Homo sapiens GN=PTGIS PE=1 SV=1

MAWAALLGLLAALLLLLLLRRRTRRPGEPLDLGSIPWLGALDFGKDAASFLTRMKEK  
HGDIFTILVGGRYVTVLLDPHSYDAVVWEPRTRLDHAYAIFLMERIFDVQLPHYSPSDE  
KARMKLTLLHRELQALTEAMYNLHAVLLGDATEAGSGWHEMGLLDFSYSFLLRAGYTL  
YGIEALPRTHESQAQDRVHSADVFTFRQLDRLLPKLARGSLVGDKDHMCVKSRLWKL  
LSPARLARRAHRKSWLESYLLHLEEMGVSEEMQARALVLQLWATQGNMGPAAFWLLFL  
KNPEALAAVRGELESILWQAEQVPSQTTTLPQKVLDPVLDVLSLRLTAAPFITRE  
VVVDLAMPADGREFNLRRGDRLLFPFLSPQRDPEIYTDPEVFKYNRFLNPDGSEKKDF  
YKDGKRLKNYNMPWGAGHNHCLGRSYAVNSIKQFVFLVLVHLDLELINADVEIPEFDLSR  
YGFGLMQPEHDVPVRYRIRP

>sp|Q03431|PTH1R\_HUMAN Parathyroid hormone/parathyroid hormone-related peptide receptor  
OS=Homo sapiens GN=PTH1R PE=1 SV=1

MGTARIAPGLALLCCPVLSSAYALVDADDVMTKEEQIFLLHRAQAQCEKRLKEVLQRP  
SIMESDKGWSASTSGKPRKDKASGKLYPESEEDKEAPTGSRYRGRPCLEWDHILCWPL  
GAPGEVVAVPCPDYIYDFNHKGHAYRRCDRNGSWELVPGHNRTWANYSECVKFLTNETRE  
REVFDRLGMIYTVGYSVSLASLTVAVLILAYFRRLHCTRNYIHMHLFLSFMLRAVSIFVK  
DAVLYSGATLDEAERLTEELRAIAQAPPPATAAAGYAGCRVAVTFFLYFLATNYYWIL  
VEGLYLHSLIFMAFFSEKKYLWGFTVFGWGLPAVFVAVWVSVRATLANTGCWDLSSGNKK  
WIIQVPILASIVLNFILFINIVRVLATKLRETNAGRCDTRQQYRKLLKSTLVLMPFLGVH  
YIVFMATPYTEVSGTLWQVQMHYEMLFNSFQGFVAIIYFCNGEVQAEIKKSWSRWTLA  
LDFKRKARSGSSSYSGPMVSHSVTNVGPVGLGLPLSPRLPTATTNGHPQLPGHAKP  
GTPALETLETPPAMAAPKDDGFLNGSCSGLDEEASGPERPPALLQEEWETVM

>sp|P21246|PTN\_HUMAN Pleiotrophin OS=Homo sapiens GN=PTN PE=1 SV=1

MQAQYQQRRKFAAAFLAIFILAAVDTAEAGKKEKPEKKVKKSDCGEWQWSVCVPTSG  
DCGLGTREGTRTGAECKQTMKTQRCKIPCNWKKQFGAECKYQFQAWGECDLNTALKTRTG  
SLKRALHNAECQKTVTISKPCGKLTGPKPQAESKKKKKEGKKQEKMLD

>sp|Q15257|PTPA\_HUMAN Serine/threonine-protein phosphatase 2A activator OS=Homo sapiens  
GN=PPP2R4 PE=1 SV=3

MAEGERQPPDSSEEAPPATQNFIIIPKKEIHTVPDMGKWKRSQAYADYIGFILTLNEGK  
GKKLTFEYRVSEMWNEVHEEKEQAAKQSVSCDECIPLPRAGHCAPSEATEKLVALLNTLD  
RWIDETPPVDQPSRFGNKAYRTWYAKLDEEAENLVATVVPHTLAAVPEVAVYLKESVGN  
STRIDYGTGHEAAFAAFLCCLKIGVLRVDDQIAIVFKVFNRYLEVMRKLQKTYRMEPAG  
SQGVWGLDDFQFLPFIWGSSQLIDHPYLEPRHFVDEKAVNENHKDYMFLCILFITEMKT  
GPFAEHSNQLWNISAVPSWSKVNQGLIRMYKAECLEKFPVIQHFKFGSLLPIHPVTSG

>sp|P22102|PUR2\_HUMAN Trifunctional purine biosynthetic protein adenosine-3 OS=Homo sapiens GN=GART PE=1 SV=1

MAARVLIIGSGGREHTLAWKLAQSHHVQVVLVAPGNAGTACSEKISNTAISISDHTALAQ  
FCKEKKIEFVVVGPEAPLAAGIVGNLSAGVQCFGPTAEAAQLESSKRFAKEFMDRHGIP  
TAQWKAFTKPEEACSFILSADFPALVVKASGLAAGKGVIVAKSKEEACKAVQEIMQEKA  
GAAGETIVIEELLDGEEVSCLCFTDGKTVAPMPPAQDHKRLLLEGDGGPNTGGMGAYCPAP  
QVSNLLLLKIKDITVLQRTVDGMQQEGTPYTGILYAGIMLTKNQPKVLEFNCRFGDPECQV  
ILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVMASKGYPGDYTKGVEITGFPEA  
QALGLEVFHAGTALKNGKVVTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEGAIYRKD  
VGFRAIAFLQQPRSLTYKESGVDIAAGNMLVKKIQPLAKATSRSGCKVDLGGFAGLFDLK  
AAGFKDPLLASGTDGVTGLKIAQLCNKHDTIGQDLVAMCVNDILAQAEPFLFDYFSC  
GKLDLSVTEAVVAGIAKACGKAGCALLGGETAEMPDMYPPGEYDLAGFAVGAMERDQKLP  
HLERITEGDVVVGIIASSGLHSNGFSLVRKIVAKSSLQYSSPAPDGGCDQTLGDLLLTPT  
IYSHSLLPVLRSGHVKAFAHITGGGLENIPRVLPKLGVDLDAQTWRIPRVFSWLQEG  
HLSEEMARTFNCVGAVLVVSKEQTEQILRDIQQHKEEAWVIGSVARAEGSPRVKVN  
LIESMQINGSVLKNGSLTNHFSFEKKKARVAVLISGTGSNLQALIDSTREPNSAQIDIV  
ISNKAAGVGLDKAERAGIPTRVINHKLYKNRVEFDSAIDLVEEFSIDIVCLAGFMRILS  
GPFVQKWNKMLNIHPSLLPSFKGSNAHEQALETGVTVTGCTVHFVAEDVDAGQIILQEA  
VPVKGDTVATLSERVKLAEHKIFPAALQLVASGTVQLGENGKICWVKEE

>sp|P49721|PSB2\_HUMAN Proteasome subunit beta type-2 OS=Homo sapiens GN=PSMB2 PE=1 SV=1

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QKNVQLYKMRNGYELSPTAAANFTRRLADCLRSRTPYHVNLLLAGYDEHEGPALYYMDY  
LAALAKAPFAAHGYGAFTLSILDRIYPTISRERAVELLRKCLEELQKRFILNLPFSV  
RIIDKNGIHDLDNISFPKQGS

>sp|P28065|PSB9\_HUMAN Proteasome subunit beta type-9 OS=Homo sapiens GN=PSMB9 PE=1 SV=2

MLRAGAPTGLPRAGEVHTGTTIMAVEFDGGVVMGSDSRVSAGEAVVNRVFDKLSPLHER  
IYCALSGSAADAQAVADMAAYQLELHGIELEPPPLVLAANVVRNISKYREDLSAHLMV  
AGWDQREGGQVYGTLLGMLTRQPFAGGSGSTFIYGYVDAAYKPGMSPEECRRFTTDAIA  
LAMS RDGSSGGVIYLVTTITAAGVDHRVILGNELPKFYDE

>sp|O00232|PSD12\_HUMAN 26S proteasome non-ATPase regulatory subunit 12 OS=Homo sapiens GN=PSMD12 PE=1 SV=3

MADGGSERADGRIVKMEVDYSATVDQRLPECAKLAKEGRLQEVIETLLSLEKQTRTASDM  
VSTRILVAVVKMCYEAKEDLLNENIMLLSKRRSQLKQAVAKMVQCCTYVEEITDLPI  
KLRLIDTLRMVTEGKIYVEIERARLTKLATIKEQNGDVKEAASILQELQVETYGSMEKK  
ERVEFILEQMRLCLAVKDYIRTQIIISKINTKFFQEENTEKLKLKYNNLMIQLDQHEGSY  
LSICKHYRAIYDTPCQAESEKQQALKSVVLYVILAPDNEQSDLVHRISGDKKLEEIP  
KYKDLLKLFTTMELMRWSTLVEDYGMELRKGSLESPATDVFGSTEEGEKRWKDLKNRVVE  
HNIRIMAKYYTRITMKRMAQLLDLSVDESEAFSLNVLVNKTIFAKVDRLAGIINFQRPKD  
PNNLLNDWSQKLNSLSLVNKTTHLIAKEEMIHNLQ

>sp|P26599|PTBP1\_HUMAN Polypyrimidine tract-binding protein 1 OS=Homo sapiens GN=PTBP1 PE=1 SV=1

MDGIVPDIAVGTKRGSDELSTCVTNGPFIMSSNSASAANGNSKKFKGDSRSAGVPSRV  
IHIRKLPIDVTEGEVISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTSTVPV  
LRGQPIYIQFSNHKELKTDSSPNQARAQAALQAVNSVQSGNLALAASAAAVDAGMAMAGQ

SPVLRRIIVENLFYPVTLDLVHQIFSKFGTVLKIITFTKNNQFQALLQYADPVS AQHAKLS  
LDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPSLDQTMAAAFGLS  
VPNVHGALAPLAIPSAAGRIAPGLAGAGNSVLLVSNLNPVTPQSFLIFGV  
YGDVQRVKILFNKKENALVQADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREG  
QEDQGLTKDYGNSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGV  
VKGFKFFQKDRKMALIQMGSVEEAVQALIDLHNHDLGENHHLRVFSFSKSTI

>sp|Q9UKA9|PTBP2\_HUMAN Polypyrimidine tract-binding protein 2 OS=Homo sapiens GN=PTBP2  
PE=1 SV=1

MDGIVTEVAVGVKRGSDLLSGSVLSSPNSNMSSMVVTANGNDSKKFKGEDKMDGAPSRV  
LHIRKLPGEVTETEVIAGLPFGKVTNMLKGNQAFLELATEEAAITMVNYSAVTPH  
LRNQPIYIQYSNHKELKTDNTLNQRAQAVLQAVTAVQTANTPLSGTTVSES AVTPAQSPV  
LRIIDNMYYPVTLDLVHQIFSKFGAVLKIITFTKNNQFQALLQYGD PVNAQAKLALDG  
QNIYNACCTLRIDFSKLVNLNVKYNNDKSRDYTRPDLPSGDGQPALDPAIAAAFAKETSL  
LAVPGALSPLAIPNAAAAAAAAAGRVGMPGVSAGGNTVLLVSNLNEEMVTPQSLFTLFG  
VYGDVQRVKILYNKKDSALIQMADGNQSQLAMNHLNGQKMYGKIIRVTLSKHQTVQLPRE  
GLDDQGLTKDFGNSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVAEEDLRTL FANTGG  
TVKAFKFFQDHKMLLMATVEEAIQALIDLHNYNLGENHHLRVFSFSKSTI

>sp|075127|PTCD1\_HUMAN Pentatricopeptide repeat-containing protein 1, mitochondrial  
OS=Homo sapiens GN=PTCD1 PE=1 SV=2

MDFVRLARLFARARPMGLFILQHLDPCRARWAGGREGLMRPMWAPFSSSSSQLPLGQERQ  
ENTGSLGSDPSHSNSTATQEEDEEEESFGTLDKYSRRRLF RKSAQFHNLRFGERRDE  
QMEPEPKLWRRRNTPYWYFLQCKHLIKEGKLVEALDLFERQMLKEERLQPMESNYTVLI  
GGCGRVGYLKAFNLYNQMKKRDLPSDATYTALFNVCAESPWKDSALQSALKLRQQLQA  
KNFELNLKTYHALLKMAAKCADLRMCLDVFKEI IHKGHVTEETFSFLLMGC IQDKKTGF  
RYALQVWRMLSLGLQPSRDSYNLLLVAARD CGLGDPQVASELLKPREEATVLQPPVSR  
QRPRRTAQAKAGNLSAMLHVEALERQLFLEPSQALGPPEPEARVPGKAQPEVDTKAEP  
SHTAALTAVALKPPPVELEVNLLTPGAVPPTVVSFGTVTPADRLALIGGLEGFLSKMAE  
HRQQPDIRTLTLAEVVESGSPAESLLLALLDHQVEADLTFFNTLVRKKSKLGDLEGAK  
ALLPVLAKRGLVPNLQTFCNLAIGCHRPKDG LLLTDMKKSQVTPNTHIYSALINAAIRK  
LNYTYLISILKDMKQNRVPVNEVVIRQLEFAAQYPPTFD RYQGKNTYLEKIDGFRAYYKQ  
WLTVMPEETPHPWQKFRTPKQGDQDTGKEADDGCALGGR

>sp|P60484|PTEN\_HUMAN Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-  
specificity protein phosphatase PTEN OS=Homo sapiens GN=PTEN PE=1 SV=1

MTAIKEIVSRNKRKYQEDGFDLDTYIYPNIIAMGFPAERLEGVYRNNIDDVVRFLDSK  
HKNHYKIYNLCAERHYDTAKFNCRVAQYPFEDHNPPQLELIKPFCELDQWLSDDNHVA  
AIHCKAGKGRTGVMICAYLLHRGKFLKAQEALDFYGEVTRDKKGV TIPSQRRYVYYYSY  
LLKNHLDYRPVALLFHKMMFETIPMFSGGTCNPQFVVCQLKVKIYSSNSGPTRRDKFMY  
FEFPQPLPVCGDIKVEFFHKQNKMLKKDKMFHFWNTFFIPGPEETSEKVENGLCDQEI  
DSICSIERADNDKEYLVLT LTKNDLDKANKDKANRYFSPNFKVLYFTKTVEEPSNPEAS  
SSTSVTPDVS DNPDHYRSDTTSDPENEPFDEDQHTQITKV

>sp|O14684|PTGES\_HUMAN Prostaglandin E synthase OS=Homo sapiens GN=PTGES PE=1 SV=2

MPAHSVMSSPALPAFLLCSTLLVIKMYVVAIITGQVRLRKKAFANPEDALRHGGPQYCR  
SDPDVERCLRAHRNDMETIYPFLFLGFVYSFLGPNPFVAMHFLVFLVGRVAHTVAYLGK  
LRAPIRSVTYTLAQLPCASMALQILWEAARHL

>sp|Q13882|PTK6\_HUMAN Protein-tyrosine kinase 6 OS=Homo sapiens GN=PTK6 PE=1 SV=1

MVSRDQAHLGPKYVGLWDFKSRTDEELSFRAQGVFHVAREEQWWWATLLDEAGGAVAQG  
YVPHNYLAERETVESEPWFPGCISRSEAVRRLQAEGNATGAFLIRVSEKPSADYVLSVRD  
TQAVRHYYKIWRAGGRLHLNEAVSFLSLPELVNYHRAQSLSHGLRLAAPCRKHEPEPLPH  
WDDWERPREEFTLCRKLGSYFGEVFEGWLKDRVQVAIKVISRDNLLHQMLQSEIQAMK  
KL RHKHILALYAVVSVGDPVYIITELMAKGSLELLRDSDEKVLPSSELLDIAWQVAEGM  
CYLESQNYIHRDLAARNILVGENTLCKVGDFGLARLIKEDVYLSHDHNIPYKWTAPALS  
RGHYSTKSDVWSFGILLHEMFSGQVPYPGMSNHEAFLRVDAGYRMPCLPCPPSVHKLM  
LTCWCRDPEQRPCFKALRERLSSFTSYENPT

>sp|Q13308|PTK7\_HUMAN Inactive tyrosine-protein kinase 7 OS=Homo sapiens GN=PTK7 PE=1 SV=2

MGAARGSPARPRRLPLLSVLLPLLGGTQTAIVFIKQPSSQDALQRRALLRCEVEAPGP  
VHVYWLLDGAPVQDTERRFAQGSSLSFAAVDRLQDSGTFQCVARDDVTGEEARSANASFN  
IKWIEAGPVVLKHPASEAEIQPQTQVTLRCHIDGHPRTYQWFRDGTPLSDGQSNHTVSS  
KERNLTLRPAGPEHSGLYSCAHSAGQACSSQNFTLSIADESFAVVLAPQDVVARYE  
EAMFHCQFSAQPPPSLQWLFEDETPI TNRSRPPHLRRATVFANGSLLLTQVRPRNAGIYR  
CIGGQGRGPPIILEATLHLAEIEDMPLFEPRVFTAGSEERTCLPPKGLPEPSVWWEHAG  
VRLPTHGRVYQKGHELVLANIAESDAGVYTCHAAANLAGQRRQDVNITVATVPSWLKKPQD  
SQLEEGKPGYLDCLTQATPKPTVVWYRNQMLISEDSEFEVFKNGTLRINSVEVYDGTWYR  
CMSSTPAGSIEAQRVQVLEKLKFTPPPQPPQCMFEDKEATVPCSATGREKPTIKWERAD  
GSSLPWVTDNAGTLHFARVTRDDAGNYTCIASNGPQQGIRAHVQLTVAVFITFKVEPER  
TTVYQGHALLQCEAQGDPKPLIQWKGKDRILDPTKLGRPMHIFQNGSLVIHDAVEDSG  
RYTCIAGNSCNIKHTEAPLYVVDKPVPEESEGPSPPPYKMIQTIGLSVGAAYIIIAVL  
GLMFYCKKRCKAKRLKQPEGEEPEMECLNGGPLQNGQPSAEIQEEVALTSLGSGPAATN  
KRHSTDKMHPRSSLPITTLGKSEFGEVFLAKAQGLEEGVAETLVLVKSLQSKDEQQQ  
LDFRRELEMFGLNHANVVRLLGLCREAPHYMVLEYVDLGDLDKQFLRISKSKDEKLKSKQ  
PLSTKQKVALCTQVALGMEHLSNNRFVHKDLAARNCLVSAQRQVKVSALGLSKDVYNSEY  
YHFRQAWVPLRWMSPEAILEGDFSTKSDVWAFGVLMEVFTHGEMPHGGQADDEVLAIDLQ  
AGKARLPQPEGCPSKLYRLMQRCWALSPKDRPSFSEIASALGDSTVDSKP

>sp|Q12923|PTN13\_HUMAN Tyrosine-protein phosphatase non-receptor type 13 OS=Homo sapiens GN=PTPN13 PE=1 SV=2

MHVSLAEALEVRGGPLQEEIWAFLNQAESLQELFRKVSADPAALGFIISPWSLLLLP  
SGSVSFTDENISNQDLRAFTAPEVLQNQSLTSLSDVEKIHISLGMTLYWGADYEVPSQ  
PIKLGDLNSILLGMCEVDIYARVSVRTVLDACSAHIRNSNCAPSFSYVKHLVKLVGLNL  
SGTDQLSCNSEQKPDQSQAIRDRLRGKGLPTGRSSTSDVLDIQKPLSHQTFNLKGLSKS  
MGFLSIKDTQDENYFKDILSDNSGREDSNTFSPYQFKTSGPEKKPIPGIDVLSKKKIWA  
SSMDLLCTADRDFSSGETATYRRCHPEAVTVRTSTTPRKKEARYSDGSIALDIFGPQKMD  
PIYHTRELPTSSAISSALDRIRERQKKLQVLRAMNVEEPVRRYKTYHGDVFTSSSESPS  
IISSESDFRQVRRSEASKRFESSGLPGVDETLSQGQSQRPSRQYETPFEGNLINQEIML  
KRQEEELMQLQAKMALRQSRLSLYPGDTIKASMLDITRDPLREIALETAMTQRKLRNFFG  
PEFVKMTIEPFISLDLPRSILTKKGKNEDNRRKVNIMLLNGQRLELTCDTKTICKDVFD  
VVAHIGLVEHHLFALATLKDNEYFFVDPDLKLTVAPEGWKEPKKTKATVNFTLFFRI  
KFFMDDVSLIQHTLTCHQYYLQLRKDI LEERMHCDDTSLLLASLALQAEYGDYQPEVHG  
VSYFRMEHYLPARVMEKLDLSYIKEELPKLHNTYVGASEKETELEFLKVCQRLTEYGVHF

HRVHPEKKSQTGILLGVCSKGLVFEVHNGVRTLVLRFPWRETKKISFSKKKITLQNTSD  
GIKHGFQTDNSKICQYLLHLCSYQHKFQLQMRARQSNQDAQDIERASFRSLNLQAESVRG  
FNMGRAISTGSLASSTLNKLAVRPLSVQAEILKRLSCSELSLYQPLQNSSKEKNDKASWE  
EKPREMSKSYHDLQASLYPHRKNVIVNMEPPPQTVAELVGKPSHQMSRSDAESLAGVTK  
LNNKSVASLNRSPERRKHESDSSSIEDPGQAYVLGMTMHSSGNSSSQVPLKENDVLHKR  
WSIVSSPEREITLVNLKKDAKYGLGFQIIGGEKMGRLDLGIFISSVAPGGPADLDGCLKP  
GDRLISVNSVSLEGVSHHAAIEILQNAPEVDTLVISQPKEKISKVPSTPVHLTNEMKNYM  
KKSSYMQDSAIDSSSKDHHWSRGTLRHISENSFGPSGGLREGSLSSQDSRTESASLSQSQ  
VNGFFASHLGDQTWQESQHGSPSPSVISKATEKETFTDSNQSKTKKPGISDVTDYSDRGD  
SDMDEATYSSSQDHQTPKQESSSSVNTSNKMNFKTFSSSPKPGDIFEVELAKNDNSLGI  
SVTGGVNTSVRHGGIYVKAIPQGAAESDGRHKGDRVLAVNGVSLEGATHKQAVETLRN  
TGQVVHLLLEKGQSPTSKEHVPVTPQCTLSDQNAQQGQPEKVKKTTQVKDYSFVTEENTF  
EVKLFKNSSGLGFSFSREDNLIP EQINASIVRVKKLPFGQPAAESGKIDVGDVILKVNGA  
SLKGLSQQEVISALRGTAPEVFLLLCRPPPGVLPEIDTALLTPLQSPAQVLPNSSKDSSQ  
PSCVEQSTSSDENEMSDKSKKQCKSPSRSDSYDSSGSGEDDLVTAPANISNSTWSSALH  
QTLSNMVSAQASHHEAPKSQEDTICTMFYYPQKIPNKPEFEDSNPSPLPPDMAPGQSYQP  
QSESASSSSMDKYHIHHISEPTRQENWTPLKNDLENHLEDFELEVELLITLIKSEKGLG  
FTVTGKNQRIGCYVHDVIQDPAKSDGRLKPGDRLIKVNDTDVTNMTHTDVAVNLLRAASKT  
VRLVIGRVLELPRIPMLPHLLPDITLTCNKEELGFSLCGGHDSLYQVVYISDINPRSVAA  
IEGNLQLLDVIHYVNGVSTQGMTLEEVRALDMSLPSLVLKATRNDLPVVPSSKRSAVSA  
PKSTKNGSYSVSGSCSPALTPNDSFSTVAGEEINEISYPKGKCSTYQIKGSPNLTLPKE  
SYIQEDDIYDDSQEAQEVISLLDVVDEEAQNLLNENNAAGYSCGPGTLKMNGKLEERTE  
DTDCDGSPLPEYFTEATKMNGCEEYCEEKVKSESLIQKPQEKKTDDEITWGNDELPIER  
TNHEDSDKDHSFLTNDLAVLPVVKVLP SGKYTGANLKS VIRVLRGLLDQGIPSKELN  
QELKPLDQCLIGQTKENRRKNRYKNILPYDATRVPLGDEGGYINASFIIKIPVGKEEFVYI  
ACQGPLPTTVGDFWQMIWEQKSTVIAMMTQEVEGEKIKCQRYWPNI LGKTTMVS NRRLRA  
LVRMQLKGFVVRAMTLEDIQTREVRHISHLNFTAWPDHDTSPSQPDDLTFISYMRHIHR  
SGPIITHCSAGIGRSGTLICIDVVLGLISQDLDFDISDLVRCMRLQRHGMVQTEDQYIFC  
YQVILYVLTRLQAEEEQKQPQLLK

>sp|Q15678|PTN14\_HUMAN Tyrosine-protein phosphatase non-receptor type 14 OS=Homo sapiens  
GN=PTPN14 PE=1 SV=2

MPFGLKLRRTTRYVLSKNCVFTRIRLLDSNVIECTLSVESTGQECLEAVAQRLELRETH  
YFGLWFLSKSQARWVELEKPLKKHLDFANEPLLFVGVMFYVPNVSWLQQEATRYQYYL  
QVKKDVL EGRRLCTLDQVIRLAGLAVQADFGDYNQFDSQDFLREYVLPMDLAL EEA VLE  
ELTQKVAQE HKAHSGILPAEAE LMYINEVERLDGFGQEIFPVKDNHGNCVHLGIFFMGIF  
VRNRIGRQAVIYRWNDMGNIHNKSTILVELINKEETALFHTDDIENAKYISRLFATRHK  
FYKQNKICTEQSNSPPPIRRQPTWSRSSLPRQQPYILPPVHVQC GEHYSETHTSQDSIFH  
GNEEALYCNSHNSLDLNYLNGTVTNGSVCSVHSVNSLNCSSQFIQASPVSSNLSIPGSDI  
MRADYIPSHRHS AII VPSYRPTPDYETVMRQMKRGILHTDSQSQSLRN LNIINTHAYNQP  
EDLVYSQPEMRERHPYTPVYPGQGVYSNKL VSPSDQRNPKNVVP SKPGASAI SHTVSTP  
ELANMQLQGSHNYSTAHMLKNYLFRPPPPYPRPRPATSTPDLASHRHKYVSGSSPDLVTR  
KVQLSVKTFQEDSSPVVHQSLQE VSEPLTATKHHGTVNKRHSLEV MN SMVRGMEAMTLKS  
LHLP MARRNTLREQPPEEGSGSHEVPQLPQYHHKKTFS DATMLIHSSESEEEEEAPES  
VPQIPMLREKMEYSAQLQAALARIPNKPPPEYGP RKSVSNGALRQDQASLPAMARARV

LRHGPAKAISMSRTDPPAVNGASLGPSISEPDLTSVKERVKKEPVKERPVSEMFSLSDSI  
IEREMMIRNLEKQKMAGLEAQKRPLMLAALNGLSVARVSGREENRVDATRVPMDERFRTL  
KKKLEEGMVFTYEYEQIPKKKANGIFSTAALPENAERSRIREVVPYEENRVELIPTKENNT  
GYINASHIKVVVGGAEWYIATQGPLPHTCHDFWQMVWEQGVNVIAMVTAE EEGRTKSH  
RYWPKLGSKHSSATYGKFKVTTKFRDTSVCYATTGLKVHLLSGQERTVWHLQYTDWPDH  
GCPEDVQGFLSYLEEIQSVRRHTNSMLEGTKNRHPPIVVHCSAGVGRTGVLILSELMIYC  
LEHNEKVEVPMMLRLLREQRMFMIQTIAQYKFVYQVLIQFLQNSRLI

>sp|P18031|PTN1\_HUMAN Tyrosine-protein phosphatase non-receptor type 1 OS=Homo sapiens  
GN=PTPN1 PE=1 SV=1

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRVDSFPDHSRIKLH  
QEDNDYINASLIKMEEAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVMLNRVMEKGS  
CAQYWPQKEEKEMIFEDTNLKLTLISEDIKSYTVRQLELENLTQTETREILHFHYTTP  
DFGVPEPASFLNLFKVRRESGSLSPHGPVVVHCSAGIGRSGTFCLADTCLLLMDKRKD  
PSSVDIKKVLLEMRKFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE  
PPPEHIPPPPRPKRILEPHNGKCREFFPNHQWKEETQEDKDCPIKEEKGSPLNAAPYG  
IESMSQDTEVRSRVVGGSLRGAQAASPAKGEPSLPEKDEHALSYWKPFLVNMCAVTLT  
AGAYLCYRFLFNSNT

>sp|Q9Y2R2|PTN22\_HUMAN Tyrosine-protein phosphatase non-receptor type 22 OS=Homo sapiens  
GN=PTPN22 PE=1 SV=2

MDQREILQKFLDEAQSKKITKEEFANEFLKLKRQSTKYKADKTYPTTVAEKPKNIKNRY  
KDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPAYIATQGPLSTLLDFWRMIWEY  
SVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNS  
ETRTIYQFHYKNWPDHDPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI  
DYTWMLLKDGIIPENFSVFLIREMRTQRPSLVQTQEYELVYNAVLELFRQMDVIRDK  
HSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAKMMNQRTKMEIKESSSDFRTSE  
ISAKEELVLHPAKSSTSDFLELNYSFDKNADTTMKWQTKAFPIVGEPLQKHQSLLDLGSL  
LFEGCSNSKPVNAAGRYFNSKVPITRTKSTPFELIQQRETKEVDSKENFSYLESQPHDSC  
FVEMQAQKVMHVSSAELNYSPLPYDSKHQIRNASNVKHHDSALGVYSYIPLVENPYFSSW  
PPSGTSSKMSLDLPEKQDGTVPSSLLPTSSTSLFSYNSHDSLSLNSPTNISSLLNQES  
AVLATAPRIDDEIPPLPVRTPESFIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEWGGTS  
EPKKFDDSVILRPSKSVKLRSKSELHQDRSPPPPLPERTLESFFLADEDCMQAQSIET  
YSTSYPDTEMNSTSSKQTLKTPGKSFTRSKSLKILRNMKKSICNSCPPNKPAESVQSNNS  
SSFLNFGFANRFSKPKGPRNPPPTWNI

>sp|Q86YD1|PTOV1\_HUMAN Prostate tumor-overexpressed gene 1 protein OS=Homo sapiens  
GN=PTOV1 PE=1 SV=1

MVRPRRAPYRSGAGGPLGGRGRPPRPLVVRAVRSRSPASPRGPQPPRIRARSAPPMEGA  
RVFGALGPIGPSSPGLTLGGLAVSEHRLSNKLLAWSGVLEWQEKRRPYSDSTAKLKRTLP  
CQAYVNQGENLETDQWPQKLIMQLIPQQLLTTLGPLFRNSQLAQFHFTNRDCDSLKGLCR  
IMGNGFAGCMLFPHISPCEVRVLMMLYSSKKKIFMGLIPYDQSGFVSAIRQVITTRKQAV  
GPGGVNSGPVQIVNNKFLAWSGVMEWQEPRPEPNSRSKRWLPSHVYVNQGEILRTEQWPR  
KLYMQLIPQQLLTTLVPLFRNSRLVQFHFTKDLETLSLCRIMDNGFAGCVHFSYKASCE  
IRVLMMLYSSEKKIFIGLIPHDAQNFVNGIRRVIANQQQVLQRNLEQEQQQRGMGG

>sp|P08575|PTPRC\_HUMAN Receptor-type tyrosine-protein phosphatase C OS=Homo sapiens  
GN=PTPRC PE=1 SV=2

MYLWLKLLAFGFAFLDTEVFVTGQSPTSPSTGLTTAKMPSVPLSSDPLPHTTAFSPAST  
FERENDFSETTTSLSPDNTSTQVSPDSLNASAFNTTGVSSVQTPHLPTHADSQTPSAGT  
DTQTFSGSAANAKLNPTPGSNAISDVPGERSTASTFPTDPVSPLTTTSLAHSSAALPA  
RTSNTTITANTSDAYLNASETTTLSPSGSAVISTTTIATTPSKPTCDEKYANITVDYLYN  
KETKLFTAKLNVNENVECGNNTCTNNEVHNLTECKNASVSIHNSCTAPDKTLILDVPPG  
VEKFQLHDCTQVEKADTTICLKWKNIETFTCDTQNIITYRFQCGNMIFDNKEIKLENLEPE  
HEYKCDSEILYNNHKFTNASKIIKTDFGSPGEPQIIFCRSEAAHQGVITWNPPQRSFHNH  
TLCYIKETEKDCLNLDKNLIKDYDLQNLKPYTKYVLSLHAYIIAKVQRNGSAAMCHFTTKS  
APPSQVWNMTVSMSTSDNSMHVKCRPPRDRNGPHERYHLEVEAGNTLVRNESHKNCDFRVK  
DLQYSTDYTFKAYFHNGDYPGEPFILHHSTSYNSKALIAFLAFLIIVTSIALLVVLYKIY  
DLHKKRSCNLDEQQLVERDDEKQLMNVEPIHADILLETYKRKIADEGRFLAEFQSI  
PRVFSKFIKEARKPFNQKNRYVDILPYDYNRVELSEINGDAGSNYINASYIDGFKEPRKY  
IAAQGPRDETVDDFWRMIWEQKATVIVMVTRCCEGNRNKCAEYWPSMEEGTRAFGDVVVK  
INQHKRCPDYIIQKLNIVNKKEKATGREVTHIQFTSWPDHGVPEDPHLLKLRRRVNAFS  
NFFSGPIVVHCSAGVGRGTGYIGIDAMLEGLEAENKVDVYGYVVKLRRQRCLMVQVEAQY  
ILIHQALVEYNQFGETEVNLSLHPYLHNMKKRDPPEPSPLEAEFQRLPSYRSWRTQHI  
GNQEENKSKNRNSNIPYDYNRVLKHELEMSKESEHDSDESSDDSDSEEPSKYINASF  
IMSYWKPEVMIAAQGPLKETIGDFWQMIFQRKVIVMLTELKHGDQEICAQYWGEKQT  
YGDIEVDLKDTSSTYTLRVFELRHSKRKDSRTVYQYQYTNWSVEQLPAEPKELISMIQ  
VVKQKLPPQKNSSEGNKHHKSTPLLIHCRDGSQQTGIFCALLNLESAAETEEVVDIFQVVK  
ALRKARPGMVSTFEQYQFLYDVIASSTYPAQNGQVKNNHQEDKIEFDNEVDKVKQDANCV  
NPLGAPEKLPEAKEQAEGSEPTSGTEGPEHSVNGPASPALNQGS

>sp|Q9HD43|PTPRH\_HUMAN Receptor-type tyrosine-protein phosphatase H OS=Homo sapiens  
GN=PTPRH PE=1 SV=3

MAGAGGGLGVWGNLVLGLCSWTGARAPAPNPGRNLTVETQTTSSISLSWEVPDGLDSQN  
SNYVWQCTGDGGTTETRNTTATNVTVDGLGPGSLYTCSVWVEKDGVNSSVGTVTTATAPN  
PVRNLRVEAQTNSSIALTWEVPDGPDPQNSTYGVEYTGDDGGRAGTRSTAHTNITVDGLEP  
GCLYAFSMWVGKNGINSSRETRNATTAHNPVRNLRVEAQTTSSISLSWEVPDGTDPQNST  
YCVQCTGDGGRTETRNTTDRVTVDGLGPGSLYTCSVWVEKDGVNSSVEIVTSATAPNPV  
RNLTVEAQTNSSIALTWEVPDGPDPQNSTYGVEYTGDDGGRAGTRSTAHTNITVDRLEPGC  
LYVFSVWVGKNGINSSRETRNATTAPNPVRNLHMETQTNSSIALCWEVPDGYPQDYTYW  
VEYTGDDGGTETRNTTNTSVTAERLEPGTLTYFSVWAEKNGARGSRQNVSIISTVNAVTS  
LSKQDWTNSTIALRWTAQQGPGQSSYSYVWSVWREGMTDPRTQSTSGTDITLKEEAGSL  
YHLTVWAERNEVRGYNSTLTAATAPNEVTDLQNETQTKNSVMLWWKAPGDPHSQLYVYVW  
QWASKGHPRRGQDPQANWVNQTSRTNETWYKVEALEPGTLYNFTVWAERNVASSTQSLC  
ASTYPDTVTITSCVSTSAGYGVNLIWSCPQGGYEAFELEVGGQRGSQDRSSCGEAVSVLG  
LGPARYPATITTIWDGMKVSVSHSVVCHTESAGVIAGAFVGILLFLILVGLLIFFLKRRN  
KKKQKQKPELRDLVFSSPGDIPAEDFADHVRKNERDSNCGFADKYQQLSLVGHSQSQMVAS  
ASENNAKNRYRNVLPHYDWSRVPLKPIHEEPGSDYINASFMPGLWSPQEFIATQGGLPQTV  
GDFWRLVWEQQSHTLVMLTNCMEAGRVKCEHYWPLDSQPCTHGHLRVTLVGEEVMENWTV  
RELLLLQVEEQKTLVSRQFHYQAWPDHGVPSPTLLAFWRMLRQWLDQTMEGGPPIVHC  
SAGVGRGTGLIALDVLLRQLQSEGLLGPFSFVRKMRESRPLMVQTEAQYVFLHQCILRFL  
QQSAQAPAEKEVPYEDVENLIYENVAAIQAHKLEV

>sp|Q12913|PTPRJ\_HUMAN Receptor-type tyrosine-protein phosphatase eta OS=Homo sapiens  
GN=PTPRJ PE=1 SV=3

MKPAAREARLPPRSPGLRWALPLLLLLRLGQILCAGGTPSPIPDPSVATVATGENGITQ  
ISSTAESFHKQNGTGTPQVETNTSEDGESSGANDSLRTPQQSNGTDGASQKTPSSTGPS  
PVFDIKAVSISPTNVILTWKSNDAASEYKYVVKHKMENEKTITVVHQPCNITGLRPAT  
SYVFSITPGIGNETWGDPRVIKVITEPIPVSDLRVALTGVRKAALSWSNGNGTASCRVLL  
ESIGSHEELTQDSRLQVNISGLKPGVQYNINPYLLQSNKTKGDPLGTEGGLDASNTERSR  
AGSPTAPVHDESLVGPDVSSGQQSRDTEVLLVGLEPGTRYNATVYSQAANGTEGQPQAI  
EFRTNAIQVFDVTAVNISATSLTIWKVSDNESSSNYTYKIHVAGETDSSNLNVSEPRAV  
IPGLRSSTFYNITVCPVLGDIETGTPGFLQVHTPPVPVSDFRVTVVSTTEIGLAWSSHDAE  
SFQMHITQEGAGNSRVEITTNQSIIGGLFPGTKYCFEIVPKGPNGTGASRTVCNRTVP  
SAVFDIHVVVYTTTMEWLDWKSPDGASEYVYHLVIESKHGNSHTSTYDKAITLQGLIPGT  
LYNITISPEVDHVWGDPNSTAQYTRPSNVSNIDVSTNTTAATLSWQNFDDASPTYSYCLL  
IEKAGNSSNATQVVDIGITDATVTELIPGSSYTVEIFAQVGDGIKSLEPGRKSFCTDPA  
SMASFDCEVVPKEPALVLKWTCPGANAGFELEVSSGAWNATHLESCSSENGTEYRTEV  
TYLNFSTSYNISITTVSCGMAAPTRNTCTTGITDPPPPDGSPNITSVSHNSVKVKFSGF  
EASHGPIKAYAVILTTGEAGHPADVLYKYTYEDFKKGASDTYVTYLIRTEEKGRSQSLSE  
VLKYEIDVGNESSTLGYNGKLEPLGSYRACVAGFTNITFHPQNKGLIDGAESYVSFSRY  
SDAVSLPQDPGVICGAVFGCIFGALVIVTVGGFIFWRKKRKDAKNNEVSFSQIKPKKSKL  
IRVENFEAYFKKQADSNCGFAEEYEDLKLVGISQPKYAAELAENRGKNRYNNVLPYDIS  
RVKLSVQTHSTDDYINANYMPGYHKKDFIATQGPLPNTLKDFWRMVWEKNVYAIIMLT  
CQEQRGRTKCEEYWPSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESHPLRQFHF  
TSWPDHGVPDTTDLLINFRLVRDYMKQSPPEPILVHCSAGVGRTGTGTFIAIDRLIYQIE  
NENTVDVYGIVYDLRMHRPLMVQTEDQYVFLNQCVLDIVRSQKDSKVDLIYQNTTAMTIY  
ENLAPVTTFGKTNGYIA

>sp|Q9UMZ3|PTPRQ\_HUMAN Phosphatidylinositol phosphatase PTPRQ OS=Homo sapiens GN=PTPRQ  
PE=1 SV=2

MKKVPIKPEQPEKLRAFNISTHSFSLHWSLPSGHVERYQVDLVPDSGFVTIRDLGGGEYQ  
VDVSNVPGTRYDITISSISTTYTSPVTRIVTTNVTKPGPPVFLAGERVGSAGILLSWNT  
PPNPNGRIISYIVKYKEVCPWMQTVYTQVRSKPDSLEVLLTNLNP GTTYEIKVAAENSAG  
IGVFSDPFLFQTAESAPGKVNLVTEAYNASAVKLIWYLRQPNGKITSFKISVKHARSG  
IVVKDVSIRVEDILTGKLEPCNENSESFLWSTASPSPTLGRVTPPSRTHSSSTLTQNEI  
SSVWKEPISFVVTHLRPYTTYLFEVSAVTEAGYIDSTIVRTPESVPEGPPQNCVTGNIT  
GKSFSILWDPPTIVTGKFSYRVELYGPSGRILDNSTKDLKFAFTNLTPFTMYDVYIAAET  
SAGTGPKSNISVFTPPDVP GAVFDLQLAEVESTQVRITWKKPRQPNGIINQYRVKVLVPE  
TGIIILENTLLTGNNEYINDPMAPEIVNIVEPMVGLYEGSAEMSSDLHSLATFIYN SHPK  
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VLSVRTRQQVPSSIKIINYKNISSSILLYWDPPEYPNGKITHYTIYAMELDTNRAFQIT  
TIDNSFLITGLKKYTKYKMRVAASTHVGESSLSEENDIFVRTSEDEPESSPQDVEIDVT  
ADEIRLKWSPPEKPNGII IAYEVLYKNIDTLYMKNTSTTDIILRNLRPHTLYNISVRSYT  
RFGHGNQVSSLLSVRTSETVPDSAPENITYKNISSGEIELSFLPPSSPNGI IKKYTIYK  
RSNGNEERTINTTSLTQNIKVLKKYTYIIIEVSASTLKGEGVRSAPISILTEEDAPDSPP  
QDFSVKQLSGVTVKLSWQPPEPNGIILYYTVYVWNRSSLKTINVTETSLELSDLDYNVE  
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FKNLSSTSULLSWDPPVKPNGAIIISYDLTLQGPNENYSFITSNYIIIEELSPFTLYSFF  
AAARTRKGLGPSSILFFYTDESVPAPPQNLTINCTSDFVWLKWSPLPGGIVKVYSF  
KIHETHTDIYYKNISGFKTEAKLVGLEPVSTYSIRVSAFTKVGNGNQFSNVVKFTTQES  
VPDVVQNMQCMATSWQSVLVKWDPPKKANGIITQYMTVERNSTKVSPQDHMYTFIKLLA  
NTSYVFKVRASTSAGEGDESTCHVSTLPETVPSVPTNIAFSDVQSTSATLTWIRPDTILG  
YFQNYKITTLRAQKCKEWESEECVEYQKIQYLYEAHLTEETVYGLKKFRWYRFQVAAST  
NAGYGNASNWISTKTLPGPPDGPENHVHVSPTSISISWSEPAVITGPTCYLIDVKS  
DNDEFNISFIKSNEENKTIEIKDLEIFTRYSVVITAFTGNISAAYVEGKSSAEMIVTTLE  
SAPKDPNNMTFQKIPDEVTKFQLTFLPPSQPNGNIQVYQALVYREDDPTAVQIHNLSII  
QKTNTFVIAMLEGLKGGHTYNISVYAVNSAGAGPKVPMRITMDIKAPARPKTKPTPIYDA  
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TNEGFPNPCTEGKTKFSGNEEIIYIIGADNACMIPGNEDKICNGPLPKKQYLFKFRATN  
IMGQFTSDSDYSDPVKTLGEGLSERTVEIILSVTLCILSIILLGTAIFAFARIRQKQKEGG  
TYSQDAEIIDTKLKLDQLITVADLELKDERLTRPISKKSFLQHVEELCTNNNLKFQEEF  
SELPKFLQDLSSTDADLPWNRANKRFPNIKPYNNRVKLIADASVPGSDYINASYISGYL  
CPNEFIATQGPLPGTVGDFWRMVWETRAKTLVMLTQCFEKGRIRCHQYWPEDNKPVTVFG  
DIVITKLMEDVQIDWTIRDLKIERHGDCMTVRQCNFTAWPEHGVPENSAPLIHFVKLVRA  
SRAHDTTPMIVHCSAGVGRGTGVFIALDHLTQHINDHDFVDIYGLVAELRSERMCMVQNLA  
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>sp|Q15256|PTPRR\_HUMAN Receptor-type tyrosine-protein phosphatase R OS=Homo sapiens  
GN=PTPRR PE=1 SV=2

MRRAVCFPALCLLLNHAAGCFSGNNDHFLAINQKKSGKPVFIYKHSQDIEKSLDIAPQK  
IYRHSYHSSEAQVSKRHQIVNSAFPRPAYDPSLNLLAMDGQDLEVENLPIPAANVIVVT  
LQMDVNKLNITLLRIFRQGVAAALGLLPQQVHINRLIGKKNSELFVSPINRKTGISDAL  
PSEEVLRSLNINVLHQSLSQFGITEVSPEKNVLQGGHEADKIWSKEGFYAVVIFLSIFVI  
IVTCLMILYRLKERFQLSLRQDKEKNQEIHLSPITLQPALSEAKTVHSMVQPEQAPKVLN  
VVVDPQGRGAPEIKATTATSVCPSPFKMKPIGLQERRGSNVSLTDMSSLGNIEPFVSIP  
TPREKVAMEYLQSASRILTRSQLRDQVASSHLLQSEFMEIPMNFVDPKEIDIPRHGTKNR  
YKTILPNPLSRVCLRPKNVTDLSSTYINANYIRGYSKKEAFIATQGPMINTVDDFWQMV  
WQEDSPVIVMITKLKEKNEKCVLYWPEKRGYIGKVEVLVISVNECDNYTIRNLVLKQGS  
TQHVKHYYWTSWPDHKTQPSAQPLQLMLDVEEDRLASQGRGPVVVHCSAGIGRTGCFIA  
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>sp|Q13332|PTPRS\_HUMAN Receptor-type tyrosine-protein phosphatase S OS=Homo sapiens  
GN=PTPRS PE=1 SV=3

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KPRVTWNKKGKVNQSRFETIEFDESAGAVLRIQPLRTPRDENVYECVAQNSVGEITVHA  
KLTVLREDQLPSGFNIDMGPQLKVVTRTATMLCAASGNPDPEITWFKDFLPVDPSAS  
NGRIKQLRSETFESTPIRGALQIESSEETDQGYECVATNSAGVRYSSPANLYVRELREV  
RRVAPRFSILPMSHEIMPGGNVITCVAVGSPMPYVKKMQAEDLTPEDDMPVGRNVLEL  
TDVKDSANYTCVAMSSLGVIWAQITVKS LKAPGTPMVTENTATSIITITWDSGNPDV  
SYYVIEYKSKSQDGPYQIKEDITTRYSIGGLSPNSEYEIWSAVNSIGQGPPSESVVTR

TGEQAPASAPRNVQARMLSATTMIVQWEEPVEPNGLIRGYRVYYTMEPEHPVGNWQKHN  
DDSLLTTVGSLLLEDETYTVRVLAFSTVGDGPLSDPIQVKTQQGVPGQPMNLRAEARSETS  
ITLSWSPPRQESI IKYELLFREGDHGREVGRTFDPTTSYVVEDLKPNTHEYAFRLAARSPQ  
GLGAFTPVVRQRTLQSKPSAPPQDVKCVSVRSTAILVSWRPPPPETHNGALVGYSVRYRP  
LGSEDPEPKEVNGIPPTTTQILLEALEKWTQYRITTVAHTEVGPPESSPVVVRTDEDVP  
SAPPRKVEAEALNATAIRVLWRSPAPGRQHGGIRGYQVHYVRMEGAEARGPPRIKDVMLA  
DAQWETDDTAEYEMVITNLQPETAYSITVAAYTMKGDGARSKPKVVVTKGAVLGRPTLSV  
QQTPEGSLARWEPPAGTAEDQVLGYRLQFGREDSTPLATLEFPSEDRYTASGVHKGAT  
YVFLAARSRGGLGEEAAEVLSPEDTPRGHPQILEAAGNASAGTVLLRWLPPVPAERN  
AIVKYTVAVREAGALGPARETELPAEAEPGAENALTLQGLKPDATYDLQVRAHTRRGPGP  
FSPPVRYRTFLRDQVSPKNFKVKMIMKTSVLLSWEFPDNYNSPTPYKIQYNGLTLDVDGR  
TTKKLITHLKPHTFYNFVLNTRGSSLGGLQQTVTAWTAFNLLNGKPSVAPKPDADGFIMV  
YLPDGGQSPVPVQSYFIVMVPLRKSRRGGQFLTPLGSPEDMDLEELIQDISRLQRRSLRHSR  
QLEVPRPYIAARFVSLPPTFHPGDQKQYGGFDNRGLEPGHRYVFLVLAFLQKSEPTFAAS  
PFSDPFQLDNDPDPQIVDGEGLIWWIGPVLAVVFIICIVIAILLYKNKPSKRKDEPR  
TKCLLNNADLAPHHKDPVEMRRINFQTPDSGLRSPLREPGFHFESMLSHPPPIADMAE  
HTERLKANDSLKLSQYESIDPGQQTWEHSNLEVNKPNRYANVIAVDHSRVILQPIEG  
IMGSDYINANYVDGYRCQAYIATQGGLPETFGDFWRMVWEQRSATIVMMTRLEEKSRK  
CDQYWPNRGTETYGFIQVTLTDLTIELATFCVRTFSLHKNSSSEKREVRQFQFTAWPDHGV  
PEYPTPFLAFLRRVKTCPNPDAGPIVVHCSAGVGRTGCFIVIDAMLERIKPEKTVDVYGH  
VTLMRSQRNYMVQTEDQYSFIEHALLAVGCGNTEVPARSLYAYIQKLAQVEPGEHVTGM  
ELEFKRLANSKAHTRSFISANLPCNKFKNRLVNIMPYESTRVCLQPIRGVEGSDYINASF  
IDGYRQQKAYIATQGPLAETTEDFWRMLWENNSTIVVMLTKLREMGREKCHQYWPASER  
RYQYFVVDPMAYNMPQYILREFKVTDARDGQSRTVRQFQFTDWPEQGVKSGEGFIDFI  
GQVHKTKQFQGDGPISVHCSAGVGRTGVFITLSIVLERMRYEGVVDIFQTVKMLRTQRP  
AMVQTEDEYQFCYQAALEYLGSFDHYAT

>sp|O14522|PTPRT\_HUMAN Receptor-type tyrosine-protein phosphatase T OS=Homo sapiens  
GN=PTPRT PE=1 SV=6

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EKPMLDQAVPTGSFMMVNSSGRASGQKAHLLPTLKENDTHCIDFHYYFSSRDRSSPGAL  
NVYVKVNGGPQGNPVWVNSGVVTEGWVKAELAISTFWPHFYQVIFESVSLKGHPGYIAVD  
EVRVLAHPCRKAPHFLRLQNEVNVGQNATFQCIAGGKWSQHDKLWLQQWNGRDTALMVT  
RVVNHRRFSATVSVADTAQRSVSKYRCVIRSDGGSGVSNYAELIVKEPPTPIAPPELLAV  
GATYLWIKPNANSIIGDGPIILKEVEYRTTGTWAETHIVDSPNYKLWHLDPDVEYEIRV  
LLTRPGEGGTGPPGPPLTTRTKCADPVHGPQNEIVDIRARQLTLQWEPFGYAVTRCHSY  
NLTVQYQYVFNQQQYEAEEVIQTSSHYTLRGLRPFMTIRLRLLLSNPEGRMESEELVVQT  
EEDVPGAVPLESIQGGPFEEKIYIQWKPPNETNGVITLYEINYKAVGSLDPSADLSSQRG  
KVFKLRNETHHLFVGLYPGTTYSFTIKASTAKGFGPPVTTRIATKISAPSMPEYDITDPL  
NETDTTITVMLKPAQSRGAPVSVYQLVVKEERLQKSRRADIIIECFSPVSYRNASSLDS  
LHYFAAELKPANLPVTQPTVGDNKTYNGYWNPLSPLKSYSIYFQALSKANGETKINCV  
RLATKGASTQNSNTVEPEKQVDNTVKMAGVIAGLLMFIIILLGVMLTIKRRRNAYSYSYY  
LKLAKKQKETQSGAQREMGPVASADKPTTKLSASRNDEGFSSSSQDVNGFTDGSRGELSQ  
PTLTIQTHPYRTCDPVEMSYPRDQFQPAIRVADLLQHITQMKRGQGYGFKEEYEALPEGQ  
TASWDTAKEDENRNKNRYGNIISYDHSRVRLVLVDGDPHSDYINANYIDGYHRPRHYIAT

QGPMQETVKDFWRMIWQENSASIVMTNLVEVGRVKCVRYWPDDTEVYGDIKVTLIETEP  
LAEYVIRTFTVQKKGYHEIRELRLFHFTSWPDHGVPCYATGLLGFRVQVKFLNPPEAGPI  
VVHCSAGAGRTGCFIAIDTMLDMAENEGVVDIFNCVRELRAQRVNLVQTEEQYVFVHDAI  
LEACLCGNTAIPVCEFRSLYYNISRLDPQTNSSQIKDEFQTLNIVTPRVRPEDCSIGLLP  
RNHDKNRSMDVLPDRCLPFLISVDGESSNYINAALMDSHKQPAAFVVTQHPLPNTVADF  
WRLVFDYNCSSVVMLNEMDTAQFCMQYWPEKTSGCYGP IQVEFVSADIDEDI IHRIFRIC  
NMAPQDGYRIVQHLQYIGWPAYRDTPPSKRSLLKVVRLEKWQEYDREGRTVVHCLN  
GGGRSGTFC AICSVCEMIQQQNIIDVFHIVKTLRNNKSNMVETLEQYKFVYEVALEYLSS  
F

>sp|Q92729|PTPRU\_HUMAN Receptor-type tyrosine-protein phosphatase U OS=Homo sapiens  
GN=PTPRU PE=1 SV=2

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RAPADLPHGSYLMVNTSQHAPGQRAHVIFQSLSENDTHCVQFSYFLYSRDGHSPGTLGVY  
VRVNGGPLGSAVWNMTGSHGRQWHQAE LAVSTFWPNEYQVLFEALISPDRRGYMGLDDIL  
LLSYCAKAPHFSRLGDVEVNAGQNASFQCMAAGRAAEAEERFLLQRQSGALVPAAGVRHI  
SHRRFLATFPLAAVSRAEQDLYRCVSQAPRGAGVSNFAELIVKEPPTPIAPPQLLRAGPT  
YLIIQLNTNSIIIGDGPVIRKEIEYRMARGPWA EVHAVSLQTYKLWHLDPDTEYEISVLLT  
RPGDGGTGRPGPPLISRTKCAEPMRAPKGLAF AEIQARQLTLQWEPLGYNVTRCHTYTVS  
LCYHYTLGSSHNQTI RECVKTEQGVSRYYTIKNLLPYRNVHVRVLVTNPEGRKEGKEVTFQ  
TDDEVPSGIAAESLTFTPLEDMIFLKWEEPQEPNGLITQYEISYQSIESSDPAVNVPGPR  
RTISKLRNETYHVF SNLHPGTTYLFSVRARTGKGFGQAALTEITNISAPSFYADMPSP  
LGESENTITVLLRPAQGRGAPISVYQVIVEEERARRLRREP GGQDCFVPLTFEALARG  
LVHYFGAELAASSLPEAMPFTVGDNQTYRGFWNPPLPRKAYLIYFQAASHLKGETRLNC  
IRIARAAACKESKRPLEVSQRSEEMGLILGICAGGLAVLILLGAIIV IIRKGRDHYAYS  
YYPKPVNMTKATVNYRQEKTHMMSAVDRSFTDQSTLQEDERLGLSFMDTHGYSTRGDQRS  
GGVTEASSLLGGSPRRPCGRKGSPTYHTGQLHPAVRVADLLQHINQMKTAE GYGFKQEYES  
FFEGWDATKKKDKVKGSRQEPMPAYDRHRVKLHPMLGDPNADYINANYIDGYHRSNHFIA  
TQGPKEPVYDFWRMVWQEHCSSIVMITKLVEVGRVKCSRYWPEDSDTYGDIKIMLVKTE  
TLAEYVVRTFALERRGYSARHEVRQFHFTAWPEHGVPHYATGLLAFIRRVKASTPPDAGP  
IVIHCSAGTGRTGCYIVLDVMLDMAECEGVVDIYN CVKTLCSRRVNMIQTEEQYIFIHDA  
ILEACLCGETTIPVSEFKATYKEMIRIDPQSNSQLREEFQTLNSVTPPLDVEEC SIAL  
PRNRDKNRSMDVLPDRCLPFLISTDGSNNYINAAL TDSYTRSAAFIVTLHPLQSTTPD  
FWRLVYDYGCTSI VMLNQLNQSNSAWPCLQYWPEPGRQQYGLMEVEFMSGTADEDLVARV  
FRVQNISRLQEGHLLVRHFQFLRWSAYRDT PDSKKAFLHLLAEVDKWQAESGDGRITVHC  
LNGGGRSGTFCACATVLEMIRCHNLVDVFFAAKTLRNYKPNMVETMDQYHFCYDVALEYL  
EGLESR

>sp|Q9BVG9|PTSS2\_HUMAN Phosphatidylserine synthase 2 OS=Homo sapiens GN=PTDSS2 PE=1 SV=1

MRRGERRDAGGPRPESPVPAGRASLEEPDGP SAGATGPGEGRRSTESEVYDDGTNTFF  
WRAHTLTVLFI LTCTLG YVTLL EETPQDTAYNTRGIVASILVFLCFGVTQAKDGPFSRP  
HPAYWRFWLCVSVVYELFLIFILFQTVQDGRQFLKYVDPKLG VPLPERDYGGNCL IYDPD  
NETDPFHNIWDKLDGFVPAHFLGWYLK TLMIRDWWCMII SVMFEFLEYSLEHQLPNFSE  
CWWDHWIMDVLCNGLGIYCGMKTLEWLSLKYK WQGLWNIPTYKGMKRIAFQFTPYSW  
VRF EWKPASSLRRLAVCGIILVFLLAELNTFY LKFVLWMPPEHYLVLLRLVFFVNVGGV  
AMREIYDFMDDPKPHKKLGPAWLVAAITATELLIVKYDPHTLTLSLPFYISQCWTLGS

VLALTWTVWRFFLRDITLRYKETRWQKWQNKDDQGSTVGNGDQHPLGLDEDLLGPGVAEG  
EGAPTPN

>sp|Q6PEW0|PRS54\_HUMAN Inactive serine protease 54 OS=Homo sapiens GN=PRSS54 PE=2 SV=3

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DSQYTHLAFGCILSEFWVLSIASAIQNRKDIVVIVGISNMDPSKIAHTEYPVNTIIHED  
FDNNSMSNNIALKTDAMHFGNLVQSICFLGRMLHTPPVLQNCWVSGWNPTSATGNHMT  
MSVLRKIFVKDLDMCPLYKLQKTECGSHTKEETKTACLGDGPGSPMMCQLQQFDLWVLRGV  
LNFGETCPGLFLYTKVEDYSKWITSKAERAGPPLSSLHHWEKLISFSHHGPNATMTQKT  
YDSELGHVGSYLQGGRRITITHSRLGNSSRSLDVREKDVKESGRSPEASVQPLYDYDG  
GEVGEGRIFAGQNRLYQPEEIIILVSFVLVFFCSSI

>sp|Q9UIG4|PS1C2\_HUMAN Psoriasis susceptibility 1 candidate gene 2 protein OS=Homo sapiens  
GN=PSORS1C2 PE=2 SV=2

MILNWKLLGILVLCVLRGSGSEGHPSHPPAEDREEAGSPTLPQGPPVPGDPWPGAPPL  
FEDPPPTRPSRPWRDLPETGVWLPEPPRTDPPQPPRPDDPWPAGPQPPENPWPPEVDN  
RPQEEPDLDPREEYR

>sp|P25788|PSA3\_HUMAN Proteasome subunit alpha type-3 OS=Homo sapiens GN=PSMA3 PE=1 SV=2

MSSIGTGYDLSASTFSPDGRVFQVEYAMKAVENSSTAIGIRCKDGVVFGVEKLVLSKLYE  
EGSNKRLFNVDHRHVGMAVAGLLADARSLADIAREEASNFRSNFGYNIPLKHLADRVAMYV  
HAYTLYSAVRPFGCFSMLGSYSVNDGAQLYMIDPSGVSYGYWGAIGKARQAAKTEIEKL  
QMKEMTCRDIVKEVAKIIYIVHDEVKDKAFELELSWVGELTNGRHEIVPKDIREEAKEYA  
KESLKEEDESDDDNM

>sp|Q9UQ72|PSG11\_HUMAN Pregnancy-specific beta-1-glycoprotein 11 OS=Homo sapiens GN=PSG11  
PE=2 SV=3

MGPLSAPPCTEHIKWKGLLLTALLNFNWLPTTAQVMIEAQPPKVSEGKDVLLLVHNLQ  
NLTYIWKYGQIRDLYHYITSYVVDGQIIYGPAYSGRETIVSNASLLIQNVTREDAGSY  
TLHI IKRGDGTGRVGTGYFTFTLYLETPKPSISSNLNPREAMETVILTCNPETPDASYLW  
WMNGQSLPMTHRMQLSETNRTLFLFGVTKYTAGPYECEIWNSSGSASRSDPVTNLNLHGP  
LPRIFPSVTSYYSNENLDLSCFANSNPPAQYSWTINGKFQLSGQKLFIPQITPKHNGLYA  
CSARNSATGEESSTSLTIRVIAPPGLGTFAFNPT

>sp|P11465|PSG2\_HUMAN Pregnancy-specific beta-1-glycoprotein 2 OS=Homo sapiens GN=PSG2  
PE=2 SV=2

MGPLSAPPCTEHIKWKGLLVASLLNFNWLPTTAQVTIEAQPPKVSEGKDVLLLVHNLQ  
NLTYIWKYGQIRDLYHYITSYVVDGQIIYGPAYSGRETIVSNASLLIQNVTREDAGSY  
TLHI IKRGDGTGRVGTGYFTFTLYLETPKPSISSNLNPREAMETVILTCNPETPDTSYQW  
WMNGQSLPMTHRFQLSETNRTLFLFGVTKYTAGPYECEIRNSGSASRSDPVTNLNLHGP  
LPRIHPSYTNYSRGNLYLSCFANSNPPAQYSWTINGKFQSGQNLFIPTTKHSGLYV  
CSVRNSATGEESSTSLTVKVSASTRIGLLPLNPT

>sp|Q15238|PSG5\_HUMAN Pregnancy-specific beta-1-glycoprotein 5 OS=Homo sapiens GN=PSG5  
PE=1 SV=3

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NLAGYIWKYQQLMDLYHYITSYVVDGQINIYGPAYTGRETIVSNASLLIQNVTREDAGSY  
TLHI IKRGDRTRGVGTGYFTFNLYLKLKPYITINNSKPENKDVLAFTCEPKSENYTYIW  
WLNGQSLPVSPRVKRPENRILILPSVTRNETGPYECEIRDRDGGMRSDPVTNLNVLYGP  
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CSVRSATGKESSKSMTEVVSAPSGIGRLPLLNP

>sp|Q00887|PSG9\_HUMAN Pregnancy-specific beta-1-glycoprotein 9 OS=Homo sapiens GN=PSG9  
PE=2 SV=2

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NLPGYFWYKGEMTDLYHYIISYIVDGKIIIGPAYSGRETVYSNASLLIQNVTRKDAGTY  
TLHI IKRGDETREEIRHFTFTLYLETPKPYISSNLNPREAMEAVRLICDPETLDASYLW  
WMNGQSLPVTHRLQLSKTNRTLYLFGVTKYIAGPYECEIRNPVSASRSDPVTNLNLLPKLP  
IPYITINNLNPRENKDVLAFCEPKSENYTYIWWLNGQSLPVSPGVKRPIENRILILPSV  
TRNETGPYQCEIRDYGGRLSNPVILNVLYGPDLPRIYPSFTYYRSGENLDLSCFTESNP  
PAEYFWTINGKFQSQGKLFIPQITRNHSGLYACSVHNSATGKEISKSMTVKVSGPCHGD  
LTESQS

>sp|O95456|PSMG1\_HUMAN Proteasome assembly chaperone 1 OS=Homo sapiens GN=PSMG1 PE=1 SV=1

MAATFFGEVVKAPCRAGTEDEEEEEGRRETPEDREVRLQLARKREVRLRRQTKTSLEV  
SLLEKYPCSKFIIAIGNNAVAFSSVMNSGVVEEVGCAKLWNEWCRTDTHLSSTEAF  
CVFYHLKSNPSVFLCQCSCYVAEDQQYQWLEKVFSGCPRKNMQITILTCRHVTDYKTS  
TGSLPSPFLRALKTNFKDSACCPLEQPNIVHDLPAAVLSYCVWKIPAILYLCYTDVM  
KLDLITVEAFKPILSTRSLKGLVKNIPQSTEILKKLMTTNEIQSNIYT

>sp|Q969U7|PSMG2\_HUMAN Proteasome assembly chaperone 2 OS=Homo sapiens GN=PSMG2 PE=1 SV=1

MFVPCGESAPDLAGFTLLMPAVSVGNVQLAMDLIISTLNMSKIGYFYTDCLVPMVGNNP  
YATTEGSTELSINAEVYSLSRKLVALQLRSIFIKYKSKPFCEKLLSWVKSSGCARVIV  
LSSSHSYQRNDLQLRSTPFRYLLTPSMQKSVQNKIKSLNWEEMKSRCIPEIDDSEFCIR  
IPGGGITKTLYDESCSKEIQMAVLLKFVSEGDNIPDALGLVEYLNWLQILKPLSDDPTV  
SASRWKIPSSWRLLFGSGLPPALF

>sp|Q5JS54|PSMG4\_HUMAN Proteasome assembly chaperone 4 OS=Homo sapiens GN=PSMG4 PE=2 SV=2

MEGLVVAAGGDVSLHNFSARLWEQLVHFHVMRLTDSLFLVWGATPHLRNLAVAMCSRYDS  
IPVSTSLLGDTSTTSTGLAQLARKTNKQVFVSYNLQNTDSNFALLVENRIKEEMEAFF  
EKF

>sp|P49810|PSN2\_HUMAN Presenilin-2 OS=Homo sapiens GN=PSN2 PE=1 SV=1

MLTFMASDSEEEVDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDP  
DRYVCSGVPGRPPGLEEELTKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLI  
YTPFTEDTPSVGQRLNLSVNLTIMISVIVVMTIFLVVLYKYRCYKFIHGWLIMSSMLL  
FLFTYIYLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPLVLQAYLIMISALMA  
LVFIKYLPEWSAWILGAISVYDLVAVLCPKGPLRMLVETAQERNEIPFALIYSSAMVW  
TVGMAKLDPSQALQLPYDPMEEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEERG  
KLGLGDFIFYSVLVGAAATGSGDWNTTLACFVAILIGLCLTLLLAVFKKALPALPISI  
TFGLIFYFSTDNLVRPFMDTLASHQLYI

>sp|P07988|PSPB\_HUMAN Pulmonary surfactant-associated protein B OS=Homo sapiens GN=SFTPB  
PE=1 SV=3

MAESHLQWLLLLLPTLCGPGTAAWTTSSLACAQGPEFWCQSLEQALQCRAIGHCLQEVW  
GHVGADDLCQECEDIVHILNKMAKEAIFQDTMRKFLEQECNVLPKLLMPQCQNVLDYF  
PLVIDYFQNTDSNGICMHLGLCKSRQPEPEQEPGMSDPLPKPLRDPLPDLLDKLVLPV  
LPGALQARPGPHTQDLSEQFPIPLPYCWLCRALIKRIQAMIPKGALAVAVAQVCRVPL  
VAGGICQCLAERYSVILLDTLLGRMLPQLVCRLVLRCSMDDSAGPRSPTGEWLPRDSECH  
LCMSVTTQAGNSSEQAIPQAMLQACVGSWLDREKCKQFVEQHTPQLLTLVPRGWAHTTC

QALGVCCTMSSPLQCIHSPDL

>sp|Q6PGN9|PSRC1\_HUMAN Proline/serine-rich coiled-coil protein 1 OS=Homo sapiens GN=PSRC1  
PE=1 SV=1

MEDLEEDVRFIVDETLDGGLSPSDSREEEDITVLVTPEKPLRRGLSHRSDPNAVAPAPQ  
GVRLSLGPLSPEKLEEILDEANRLAAQLEQCALQDRESAGEGLGPRRVKPSPRRETFVLK  
DSPVRDLLPTVNSLTRSTPSPSSLTPRLRSNDRKGSVRALRATSGKRPSNMKRESPTCNL  
FPASKSPASSPLTRSTPPVRGRAGPSGRAAAASEETRAAKLRVSGSGEFVGLTLKFLHPSP  
PGPPTPIRSVLAPQPSTSNSQRLPRPQGAANKSSSQLPIPSAIPRPASRMPLTSRSVPPG  
RGALPPDSLSTRKGLRPSTAGHRVRESGHKVPVSQRLNLPVMGATRSNLQPPRKVAVPG  
PTR

>sp|E9PB15|PTG3L\_HUMAN Putative protein PTGES3L OS=Homo sapiens GN=PTGES3L PE=5 SV=1  
MFSLPLNCSPDHIRRSCWGRPQDLKIAAPAWNSKCHPGAGAAMARQHARTLWYDRPRYV  
FMEFCVEDSTDVHVLIEDHRIVFSCKNADGVELYNEIEFYAKVNSKPVWLSVDFDNWRDW  
EGDEEMELAHVEHYAELLKKVSTKRPPPAMDDLDDSDSADDATSN

>sp|Q6ZW05|PTHD4\_HUMAN Patched domain-containing protein 4 OS=Homo sapiens GN=PTCHD4 PE=2  
SV=3

MCFLRRPGAPASWIWRMLRQVLRRGLQSFCHRLGLCVSRHPVFFLTVPVAVLTITFGLSA  
LNRFAQEGDLERLVAPSHSLAKIERSLASSLFPLDQSKSQLYSDLHTPGRYGRVILLSPT  
GDNILLQAEGILQTHRAVLEMKDGRNSFIGHQLGGVVEVPNSKDQRVKSARAIQITYYLQ  
TYGSATQDLIGEKENEFCKLIRKLQEEHQELQLYSLASFSLWRDFHKTSILARSKVLVS  
LVLILTATLSSMKDCLRSKPFLLGVLTVCSIIITAAGIFFITDGKYNSTLLGIPFF  
AMGHGTGKGFELLSGWRRTKENLPFKDRIADAYSVMVTYMTSSLYFITFGMGASPFTN  
IEAVKVFCQNM CVSILLNYFYIFSFFGSCLVFAGQLEQNRYHSIFCCKIPSAEYLDKRPV  
WFQTVMSDGHQQTSHHETNPYQHFIQHFLREHYNEWITNIYVKPFVILYLIYASFSEM  
GCLQISDGANIINLLASDSPSVSYAMVQQKYFSNYSVPVIGFYVYEPLYWNSSVQDDLRR  
LCSGFTAVSWVEQYYQLKVS NVSANNKSDFISVLQSSFLKKPEFQHFNRNDIIFSKAGDE  
SNIIASRLYLVARSTRDKQKEITEVLEKLRPLSLSKSIRFIVFNPSFVFMHYSLSVTVP  
VLIAGFGVLLVLIITFFLVIHPLGNFWLILSVTSIELGVLGLMTLWNVDMDCISILCLY  
TLNFAIDHCAPLLFTFVLATEHTRTQCIKSSLQDHGTAILQNVTSFLIGLVPLLFVPSNL  
TFTLFKCLLLTGGCTLLHCFVILPVFLTFFPPSKKHHKKKKRAKRKEREIECIEIQENP  
DHVTTV

>sp|P12272|PTHR\_HUMAN Parathyroid hormone-related protein OS=Homo sapiens GN=PTHLH PE=1  
SV=1

MQRRLVQQWSVAVFLLSYAVPSCGRSVEGLSRRLKRAVSEHQLLHDKGKSIQDLRRRFFL  
HHLIAEIHAEIRATSEVSPNSKPSNTKNHPVRFGSDDEGRYLTQETNKVETYKEQPLK  
TPGKKKKGKPGKRKEQEKKRRRTRSAWLDSGVTGSGLEGDHLSDTSTTSLELDSRRH

>sp|P01270|PTHY\_HUMAN Parathyroid hormone OS=Homo sapiens GN=PTH PE=1 SV=1

MIPAKDMAKVMIVMLAICFLT KSDGKSVKKRSVSEIQLMHNLGKHLNSMERVEWLRKKLQ  
DVHNFVALGAPLAPRDAGSQRPRKKEDNVLVESHEKSLGEADKADVNLTKAKSQ

>sp|Q86Y79|PTH\_HUMAN Probable peptidyl-tRNA hydrolase OS=Homo sapiens GN=PTRH1 PE=1 SV=1

MRPGGFLGAGQRLSRAMSRVLEPRPPGKRWMVAGLGNPGLPGTRHSGMAVLGQLARRL  
GVAESWTRDRHCAADLALAPLGAQLVLLRPRRLMNANGRSVARAAELFGLTAAEVYL VH  
DELDKPLGRLALKLGG SARGHNGVRSCISCLNSNAMPRLRVGIGRPAHPEAVQAHVLGCF  
SPAQELLPLLLDRATDLILDHIRERSQGPSLGP

>sp|P20962|PTMS\_HUMAN Parathymosin OS=Homo sapiens GN=PTMS PE=1 SV=2

MSEKSVEAAAELSAKDLKEKKEKVEEKASRKERKKEVVEEEENGAEETAEDEGEEED  
EGEEDEEEEEDEDEGPALKRAAEEDEADPKRQKTENGASA

>sp|P16471|PRLR\_HUMAN Prolactin receptor OS=Homo sapiens GN=PRLR PE=1 SV=1

MKENVASATVFTLLFLNTCLNGQLPPGKPEIFKCRSPNKETFTCWWRPDGGGLPTNY  
SLTYHREGETLMHECPDYITGGPNSCHFQYTSMWRTYIMMVNATNQMGSSFSDELYVD  
VTYIVQPDPPLEAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW  
EIHFAQQTEFKILSLHPGQKYLQVRCRKPDPHGYWSAWSPATFIQIPSDFTMNDTTVWIS  
VAVLSAVICLIIVWAVALKGYSMTVCIFPPVPGPKIKGFDAHLEKKGSEELLSALGCQD  
FPPTSDYEDLLVEYLEVDDSEDQHLSVHSKEHPSQGMKPTYLDPDTSGRGSCDSPSLL  
SEKCEEPQANSTFYDPEVIEKPENPETHTWDPQCISMEGKIPIYFHAGGSKCSTWPLPQ  
PSQHNPRSSYHNITDVCELAVGPAGAPATLLNEAGKDALKSSQTIKSREEGKATQQREVE  
SFHSETDQDTPWLLPQEKTPFGSAKPLDYVEIHKVNKDGAISLLPKQRENSGKPKKPGTP  
ENNKEYAKVSGVMNDNLLVLPDPHAKNVACFEESAKEAPPSLEQNQAEKALANFTATSS  
KCRLQLGGLDYLDPA CFTHSFH

>sp|P60673|PROF3\_HUMAN Profilin-3 OS=Homo sapiens GN=PFN3 PE=2 SV=1

MGDWKYISAVLRDQRIDDVAIVGHADNSCVWASRPGLLAAISPQEVGVLTPDRHTFL  
QAGLSVGGRRCCVIRDHLLAEGDGVLDARTKGLDARAVCVGRAPRALLVLMGRRGVHGGI  
LNKTVHELIRGLRMQGA

>sp|Q96HE9|PRR11\_HUMAN Proline-rich protein 11 OS=Homo sapiens GN=PRR11 PE=1 SV=1

MPKFKQRRRLKAKAERLFKKKEASHFQSKLITPPPPPPSPERVGISSIDISQSRWLTS  
SWNFNFPNIRDAIKLWTRVWSIYSWCQNCITQSLEVLKDTIFPSRICHRELYSVKQQFC  
ILES KLCKLQEA LKTI SESSSCPS CGQTCHMSGKLTNPACVLITPGDSKAVLPPTLPQP  
ASHFPPPPPPPLPPPPPLAPVLLRKPSLAKALQAGPLKKDGPMTITVKDLLTVKLKKT  
QSLDEKRKLIPSPKARNPLVTVSDLQHVTLKPN SKVLSTRVTNVLITPGKSQMDLRKLLR  
KVDVERSPPG GTPLTNKENMETGTGLTPVMTQALRRKFQLAHPRSPTPTLPLSTSSFDEQN

>sp|Q9ULL5|PRR12\_HUMAN Proline-rich protein 12 OS=Homo sapiens GN=PRR12 PE=1 SV=2

MEQLPGVPPGPPHPVRPPPPPPMPPLQLEAHLRSHGLEPAAPSPRLRPEESLDPPGAMQ  
ELGAL EPLPPAGDTGVGPPNSEGKDPA GAYRSPSPQGTAKPRFVPLT SICFPDSLLQD  
EERSFFPTMEEMFGGGAADDYGKAGPPEDEGDPKAGAGPPPGPPAYDPYGPYCPGRASGA  
GPETPGLGLDPNKPPELPSTVNAEPLGLIQSGPHQAAPPPPPPPPPAPASEPKGGLTS  
PIFCSTKPKLLKTSSFHLLRRRDPPFQTPKKLYAQEYEF EADEDKADV PADIRLNPRRL  
PDLVSSCRSRPALSPLGDI DFCPPNPGPDGPRRRGRKPTKAKRDGPPRPRGRPRIRPLEV  
PTTAGPASASTPTDGAKKPRGRGRGRKAEEAGGTRLEPLKPLKIKLSVPKAGEGLGTS  
SGDAISGTDHNSLDSSLTREKIEAKIKEVEEEKQPEMKSGFMASFLDFLKSGKRHPPLYQA  
GLTPPLSPPKSVPPSVPARGLQPQPATPAVPHPPPSGAFGLGGALEAAESEGLGLGCPS  
PCKRLDEELKRNL ETLPSFSSDEEDSVAKNRDLQESISSAISALDDPPLAGPKDTSTPDG  
PPLAPAAA VPGPPPLPGLPSANSNGTPEPPLLEEKPPPTPPPAPTQPQPPPPPPPPQPA  
LPSPPLVAPTSSPPPPPLPPPPPPAMPSPPPPPPPAAA PLAAPPEEPAAPSPEDPELP  
DTRPLHLAKKQETA AVCGETDEEAGESGGEIGFRERDEFVIRAEDIPSLKLALQTGREPP  
PIWRVQKALLQKFTPEIKDQGRQFCATSNYLG YFGDAKNRYQRLYVKFLENVNKKDYVRV  
CARKPWHRPPVPVRRSGQAKNPVSAGGSSAPPPKAPAPPKPETPEKTTSEKPPEQTPET  
AMPEPPAPEKPSLLRPVEKEKEKEKVTRGERPLRGERATSGRQTRPERSLATGQPATSRL  
PKARPTKVKA EPPPKRKKWLKEAGGNATAGGGPPGSSSDSESSPGAPSEDERAVPGRLL

KTRAMREMYRSYVEMLVSTALDPMIQALEDTHDELYLPPMRKIDGLLNEHKKKVLKRLS  
LSPALQDALHTFPQLQVEQSGEGSPEEGAVRLRPAGEPYNRKTL SKLKRSVVRAQEFKVE  
LEKSGYYTLYHSLHHYKHTFLRCRDQTLAIEGGAEDLGQEEVVQQCMRNQPWLEQLFDS  
FSDLLAQAQAHSRCG

>sp|Q9NZ81|PRR13\_HUMAN Proline-rich protein 13 OS=Homo sapiens GN=PRR13 PE=1 SV=1  
MWNPNAGQPGPNYPNIGCPGGSNPAHPPPINPPFPFGPCPPPPGAPHGNAFPPGGPP  
HPVPQPGYPGCQPLGPYPYPYPYPAPGIPPVNPLAPGMVGPAVIVDKKMQKKMKKAHKKM  
HKHQKHKKYHKHGHSSSSSSSSSSSDSD

>sp|Q6ZNR8|PRR17\_HUMAN Putative uncharacterized protein encoded by LINC00176 OS=Homo sapiens GN=LINC00176 PE=5 SV=1  
MEEAPLPKLAGLLLSQFPPTPTPPSSLPSPGAQYPPVHLVPGSDPARGGGRGPPRGPGES  
CLDRGCAHRGGDAAPLQDAAPAEPAQAQDAPCPASRRPKAAPAARPGRRRHLLGEALRAAR  
PGLQGLLARPV LALRGEENQRGRGRAWRRASF CRLVGDLGPSLDAARAPRRAQDLEKGAR  
LAAAGSRRR PALHAPKASINGAGAAGPALPSPASLWA

>sp|Q8IZ63|PRR22\_HUMAN Proline-rich protein 22 OS=Homo sapiens GN=PRR22 PE=2 SV=2  
MQHPKPFCAAPQEGFSPQSLEGAEVLGNQPAPTCAEPPAMGSLNLYHPPDPEKEVFP  
APPAGFQMAPCGCFDPRIYRIEWTTPLDGGQALYKLAASSGGPAGVPSAPGSYLLEPQP  
YLKAPGLPPYPHYQQAPGGPQFLLPYFPPEGPGPEALGFVG DAGPAAFVELLPPLLEEGP  
APLPPPPPKENKPPV LITLPAEPTLPDAYSHLQGH LGHFPGPEPLAFPVKELQGS GAR  
PGVPLYPGLSELKVAEVKEGALLGAGKAKAPKTARALALPDKV LLEDAMKLFDCLP GAS  
EPEGTLC E VPGPALPDSSGNSADDIRSLCLPEELLSFDYSVPEILD TVSNVDYFFNFKA  
LDEEQPPHPGPPATNTPAPILSGKRKASTAKKGKPGRKARQPAGPASATPPGPREDLGAT  
PH

>sp|P62333|PRS10\_HUMAN 26S protease regulatory subunit 10B OS=Homo sapiens GN=PSMC6 PE=1 SV=1  
MADPRDKALQDYRK LLEHKEIDGRLKELREQLKELTKQYEKSENDLKALQSVGQIVGEV  
LKQLTEEFIVKATNGPRYVVGCRRLDKSKLKPGRTRVALDMTTLTIMRYLPREVDPLVY  
NMSHEDPGNVSYSEIGGLSEQIRELREVIELPLTNPELFQRVGIIPKGC LLYGPPGTGK  
TLLARAVASQLDCNFLKVVSSSIVDKYIGESARLI REMFN YARDHQPCII FMD EIDAIGG  
RRFSEGTSADREIQRTLME LLNQMDGFDTLHRVKMIMATNRPDTLDPALLRPGR LDRKIH  
IDL PNEQARLDILKI HAGPITKHGEIDYEAIVKLS DGFNGADLRNVCTEAGMFAIRADHD  
FVVQEDFMKAVRKVADSKKLESKLDYKPV

>sp|Q2L4Q9|PRS53\_HUMAN Serine protease 53 OS=Homo sapiens GN=PRSS53 PE=2 SV=1  
MKWCWGPVLLIAGATVLM EGLQAAQRACGQRGPGPPKQEGNTVPGEWPWQASVRRQGAH  
ICSGSLVADTWVLTAAHCFEKA AATELNSWSVVLGSLQREGLSPGAEEVGVAALQLPRAY  
NHYSQGS DLALLQLAHTTHTPLCLPQPAHRFPFGASCWATGWDQDTS DAPGTLRNLR LR  
LISRPTCNCIYNQLHQRHLSNPARPGMLCGGPQPGVQGPCQGDSGGPVLCLEPDGHVWQA  
GIISFASSCAQEDAPVLLTNTAAHSSWLQARVQGAAFLA QSPETPEMSDEDS CVACGSLR  
TAGPQAGAPSPWPWEARLMHQGLACGGALVSEEAVLTAAHCFIGRQAPEEWSVGLGTRP  
EEWGLKQLILHGAYTHPEGGYD MALLLLAQPVTLGASLRPLCLPYPDHHLPDGERGWVLG  
RARPGAGISSLQTVPTLLGPRACSR LHAAPGGDGSPILPGMVCTSAVGELPSCEGLSGA  
PLVHEVRGTWFLAGLHSFGDACQGPAPAVFTALPAYEDWVSSLDWQVYFAEEPEPEAE P  
GSCLANISQPTSC

>sp|O14818|PSA7\_HUMAN Proteasome subunit alpha type-7 OS=Homo sapiens GN=PSMA7 PE=1 SV=1



MSYDRAITVFSPDGHFLFQVEYAQEA VKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVR  
KICALDDNVCMAFAGLTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQ  
SNGRRPFGISALIVGFDFDGTPLRYQTDPSTGYHAWKANAIGRGAKSVREFLEKNYTDEA  
IETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKILNPEEIEKYVAEIEKEKEENE  
KKKQKKAS

>sp|P40306|PSB10\_HUMAN Proteasome subunit beta type-10 OS=Homo sapiens GN=PSMB10 PE=1  
SV=1

MLKPALEPRGGFSFENCQRNASLERVLPGLKVPHARKTGTTIAGLVFQDGVILGADTRAT  
NDSVVAADKSCKEIHFIAPKIYCCGAGVAADAEMTTRMVASKMELHALSTGREPRVATVTR  
ILRQTLFRYQGHVGASLIVGGVDLTGPGLYGVPHGYSRLPFTALGSGQDAALAVLEDR  
FQPNMTLEAAQGLLVEAVTAGILGDLGSGGNVDACVITKTGAKLLRTLSSPTEPVKRSGR  
YHFVPGTTAVLTQTVKPLTLELVEETVQAMEVE

>sp|Q13200|PSMD2\_HUMAN 26S proteasome non-ATPase regulatory subunit 2 OS=Homo sapiens  
GN=PSMD2 PE=1 SV=3

MEEGGRDKAPVQPQQSPAAAPGGTDEKPSGKERRDAGDKDKEQELSEEDKQLQDELEMLV  
ERLGEKDTSLYRPALEELRRQIRSSSTTSMTSVPKPLKFLRPHYGKLKEIYENMAPGENKR  
FAADIISVLAMTMSGERECLKYRLVGSQEELASWGHEYVRHLAGEVAKEWQELDDAEKVQ  
REPLLTLVKEIVPYNMAHNAEHEACDLLMEIEQVDMLEKDIDENAYAKVCLYLTSCVNYV  
PEPENSALLRCALGVFRKFSRFPALRLALMLNDMELVEDIFTSCKD VVVQKQMAFMLGR  
HGVFLELSEDEVEEYDLTEIMSNVQLNSNFLALARELDIMEPKVPDDIYKTHLENNRFGG  
SGSQVDSARMNLASSFVNGFVNAAFQGDKLLTDDGNKWLYKNKDHGMLSAAASLGMILLW  
DVDGGLTQIDKYLYSSEDIKSGALLACGIVNSGVRNECDPALALLSDYVLHNSNTMRLG  
SIFGLGLAYAGSNREDVLTLLLPVMGDSKSSMEVAGVTALACGMIAVGSCNGDVTSTILQ  
TIMEKSETELKDTYARWLPLGLGLNHLGKGEAIEAILAALEVSEPFERSFANTLVDCAY  
AGSGNVLVKQQLLHICSEHFDSKEKEEDKDKKEKKDKKKEAPADMGAHQGVAVLGIALI  
AMGEEIGAEMALRTFGHLLRYGEPTLRRVPLALALISVSNPRLNILDLSKFSHDADPE  
VSYNSIFAMGMVSGTNNARLAAMLRLQAQYHAKDPNNLFMVRLAQGLTHLGKGTLTLCPL  
YHSDRQLMSQVAVAGLLTVLVSFLDVRNII LGKSHYVLYGLVAAQPRMLVTFDEELRPL  
PVSVRVGQAVDVVGQAGPKTITGFQTHTPVLLAHGERAELATEEFLPVTPILEGFVIL  
RKNPNYDL

>sp|Q16401|PSMD5\_HUMAN 26S proteasome non-ATPase regulatory subunit 5 OS=Homo sapiens  
GN=PSMD5 PE=1 SV=3

MAAQALALLREVARLEAPLEELRALHSVLA VPLNELRQQAELRLGPLFSLNENHREK  
TTLCVSILERLLQAMEPVHVARNLRVDLQRGLIHPDDSVKILTLSQIGRIVENS DAVTEI  
LNNAELLKQIVYICIGGENLSVAKAAIKSLSRISLTQAGLEALFESNLDDLKSVMTNDI  
VRYRVYELIIIEISSVSPESLNYCTTSGLV TQLLREL TGEDVLVRATCIEMVTS LAYTHHG  
RQYLAQEGVIDQISNII VGADSDPFSSFYLP GFVKFFGNLAVMDSPQQICERYPIFVEKV  
FEMIESQDPTMIGVAVDTVGILGSNVEGKQVLQKTGTRFRERLLMRIGHQSKNAPVELKIR  
CLDAISSLLYLPEEQQTDDLRLMTESWFSSLSRDPLELFRGISSQPFPELHCAALKVFTA  
IANQPWAQKLMFNSPGFVEYVVDRSVEHDKASKDAKYELVKALANSKTIAEIFGNPNYL  
LRTYLSEGPYYVKPVSTTAVEGAE

>sp|Q8WXF1|PSPC1\_HUMAN Paraspeckle component 1 OS=Homo sapiens GN=PSPC1 PE=1 SV=1

MMLRGNLQVRIEKNPARLRALES AVGESEPA AAAAAAMALALAGEPAPPAPAPPEDHPDEE  
MGFTIDIKSFLKPGEKTYTQRCRLFVGNLPTDITEEDFKRLFERYGEPSEVF INRDRGFG

FIRLESRTLAEIAKAELDGTILKSRLRIRFATHGAALTVKNLSPVVSNELLEQAFSQFG  
PVEKAVVVVDDRGRATGKGFVEFAAKPPARKALERC GDGAFLTTTPRPVIVEPMEQFDD  
EDGLPEKLMQKTQQYHKEREQPPRFAQPGTFEFYASRWKALDEMEKQKREQVDRNIREA  
KEKLEAEMEAARHEHQLMLMRQDLMRQEELRRLEELRNQELQKRKQIQLRHEEEHRRRE  
EEMIRHREQEELRRQEQEGFKPNYMENREQEMRMGDMGPRGAINMGDAFSPAPAGNQGPPP  
MMGMNMNRATIPGPPMGPGPAMGPEGAANMGTPMMPDNGAVHNDRFPPQGPPSQMGSPMG  
SRTGSETPQAPMSGVGPVSGGPGGFGGRGSQGGNFEGPNKRRRY

>sp|Q8IV42|PSTK\_HUMAN L-seryl-tRNA(Sec) kinase OS=Homo sapiens GN=PSTK PE=1 SV=2

MKTAENIRGTGSDGPRKRLCVCGLPAAGKSTFARALAHRLQQEQGWAIGVVAYDDVMP  
DAFLAGARARPAPSQWKLLRQELLKYLEYFLMAVINGCQMSVPPNRTEAMWEDFITCLKD  
QDLIFSAAFEAQSCYLLTKTAVSRPLFLVLDDNFYYQSMRYEVYQLARKYSLGFCQLFLD  
CPLETCLQRNGQRPQALPPETIHLGRKLEKPNPEKNAWEHNSLTIPSPACASEASLEVT  
DLLLTALENPVKYAEDNMEQKDTDRICSTNILHKTDQTLRRIVSQTMKEAKGNQEAFFSE  
MTFKQRWVRANHAIIWRIILGNEHIKCRSAKVGWLQCCRIEKRPLSTG

>sp|Q14761|PTCA\_HUMAN Protein tyrosine phosphatase receptor type C-associated protein  
OS=Homo sapiens GN=PTPRCAP PE=1 SV=1

MALPCTLGLGMLLALPGALGSGGSAEDSVGSSSVTVVLLLLLLLLLATGLALAWRRLSRD  
SGGYHHPARLGAALWGRTRRLWASPPGRWLQARAELGSTDNDLERQEDEQD TDYDHVAD  
GGLQADPGEQEQQCGEASSPEQVPVRAEEARDSDEGDLVLGSPGPASAGGSAEALLSDL  
HAFAGSAAWDDSAARAAGGQGLHVTAL

>sp|P49190|PTH2R\_HUMAN Parathyroid hormone 2 receptor OS=Homo sapiens GN=PTH2R PE=1 SV=1

MAGLGASLHVWGWLMLGSCLLARAQLDSDGTITIEEQIVLVLKAKVQCELNITAIQLQEGE  
GNCFPEDGLICWPRGTGKISAVPCPPYIYDFNHKGVAFRHCNPNGTWDFMHSNKTWA  
NYSDCRLFLQPDISIGKQEPPERLYVMTYVGYSSIFGSLAVAILIIGYFRRLHCTRNYIH  
MHLFVSFMLRATSFVKDRVVAHIGVKELESIMQDDPQNSIEATSVDKSQYIGCKIAV  
VMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGFILIGWGFPAAFVAWAVARAT  
LADARCWELSAGDIKWIYQAPILAAIGLNFILFLNTVRVLATKIWETNAVGHDRKQYRK  
LAKSTLVVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFNSFGFFVSIICYCNGEV  
QAEVKMWSRWNLSDWKRTPPCGSRRCGSVLTTVTHSTSSQSQAASRMVLISGKAAK  
IASRQPDSSHITLPGYVWSNSEQDCLPHSFHEETKEDSGRQGDILMEKPSRPMESNPDE  
GCQGETEDVL

>sp|075832|PSD10\_HUMAN 26S proteasome non-ATPase regulatory subunit 10 OS=Homo sapiens  
GN=PSMD10 PE=1 SV=1

MEGCVSNLMVCNLAYSGLKEELKESILADKSLATRTDQDSRTALHWACSAGHTEIVEFLL  
QLGVPVNDKDDAGWSPLHIAASAGRDEIVKALLGKGAQVNAVNGCTPLHYAASKNRHE  
IAVMLLEGGANPDAKDHYEATAMHRAAAKGNLKMIIHILLYKASTNIQDTEGNTPLHLAC  
DEERVEEAKLLVSQGASIIYENKEEKTPLQVAKGGLGLILKRMVEG

>sp|Q9BQI7|PSD2\_HUMAN PH and SEC7 domain-containing protein 2 OS=Homo sapiens GN=PSD2  
PE=2 SV=3

MEEDKLLSAVPEEGDATRDPGPEPEEEPGVRNGMASEGLNSSLCSPGHERRGTPADTEEP  
TKDPDVAFHGLSLGLSLTNGLALGPDLNILEDSAESRPWRAGVLAEGDNASRSLYPDAED  
PQLGLDGPGEPPDVRDGFSAFTEKILESELLRGTQYSSLDSDGLSLTDESDSCVSFEAPL  
TPLIQQRARDSPEPGAGLGIGDMAFEGDMGAAGGDGELGSPLRRSISSRSENVLSRLSL  
MAMPNGFHEDGPQPGGDEDDDEEDTDKLLNSASDPSLKDGLSDSDSELSSSEGLEPGSA

DPLANGCQGVSEAAHRLARRLYHLEGFQRCDVARQLGKNEFSRLVAGEYLSFFDFSGLT  
LDGALRTFLKAFPLMGETQERERVLTHFSRRYCQCNPDDTSEDGIHTLTCALMLLNTDL  
HGHNIGKKMSCQQFIANDQLNDGQDFAKDLLKTLYNSIKNEKLEWAIDEDELKSLSEL  
VDDKFGTGTKKVTRILDGGNPFLDVPQALSATTYKHGVLTRKTHADMDGKRTPRGRRGWK  
KFYAVLKGTILYLQKDEYRPDKALSEGDLKNAIRVHHALATRASDYKSKSNVLKLTADW  
RVFLFQAPSKEEMLSWILRINLVAAIFSAPAFPAAVSSMKKFCRPLLPSCCTTRLCQEEQL  
RSHENKLRQLTAELAHRCHPVERGIKSKEAEEYRLKEHYLTFEKSRYETYIHLAMKIK  
VGSDDLIERIARLATLEGDDPSLRKTHSSPALSQGHVTGSKTTKDATGPD

>sp|Q9Y248|PSF2\_HUMAN DNA replication complex GINS protein PSF2 OS=Homo sapiens GN=GINS2  
PE=1 SV=1

MDAAEVEFLAEKELVTIIPNFSLDKIYLIIGDGLGPFNPGLPVEVPLWLAINLKQRQKCRL  
LPPEWMDVEKLEKMRDHERKEETFTPMPSPYMELTKLLLNHASDNIPKADEIRTLVKDM  
WDTRIAKLRVSADSFVRQQEAHAKLDNLTLMEINTSGTFLTQALNHMYKLRTNLQPLEST  
QSQDF

>sp|Q16557|PSG3\_HUMAN Pregnancy-specific beta-1-glycoprotein 3 OS=Homo sapiens GN=PSG3  
PE=2 SV=2

MGPLSAPPCTQRITWKGLLLTALLNFWNLPPTAQVTIEAEPTKVSKGKDVLLLVHNLQP  
NLAGYIWYKGQMKDLYHYITSYVVDGQIIYGPAYSGRETIVSNASLLIQNVTREDAGSY  
TLHIVKRGDGTGETGHFTFTLYLETPKPSISSSNLYPREDMEAVSLTCDPETPDASYLW  
WMNGQSLPMTHTSLQLSKNKRTLFLFGVTKYTAGPYECEIRNPVSASRSDPVTNLNLPKLP  
KPYITINNLPRENKDVLAFTCEPKSENYTYIWWLNGQSLPVSPRVKRPIENRILILPSV  
TRNETGPYQCEIQDRYGGIRSYPTLVNLYGPDLPRIYPSFTYYHSGENLYLSCFADSNP  
PAEYSWTINGKFQLSGQKLFIPQITTKHSGLYACSVRNSATGMESSKSMTVKVSAPSGTG  
HLPGLNPL

>sp|Q00888|PSG4\_HUMAN Pregnancy-specific beta-1-glycoprotein 4 OS=Homo sapiens GN=PSG4  
PE=2 SV=3

MGPLSAPPCTQRITWKGVLLTASLLNFWNPPPTAQVTIEAQQPKVSEGKDVLLLVHNLQP  
NLAGYIWYKGQMTYLYHYITSYVVDGQRIIYGPAYSGRERVYSNASLLIQNVTQEDAGSY  
TLHIKRRDGTGGVTGHFTFTLHLETPKPSISSSNLNPREAMEAVILTCDPATPAASYQW  
WMNGQSLPMTHTLRLQLSKTNRTLFIQVTKYIAGPYECEIRNPVSASRSDPVTNLNLPKLS  
KPYITINNLPRENKDVLTFTCEPKSKNYTYIWWLNGQSLPVSPRVKRPIENRILILPNV  
TRNETGPYQCEIRDYGGIRSDPVTLVNLYGPDLPRIYPSFTYYRSGENLYLSCFAESNP  
RAQYSWTINGKFQLSGQKLSIPQITTKHSGLYACSVRNSATGKESSKSITVKVSDWILP

>sp|Q00889|PSG6\_HUMAN Pregnancy-specific beta-1-glycoprotein 6 OS=Homo sapiens GN=PSG6  
PE=2 SV=1

MGPLSAPPCTQHITWKGLLLTASLLNFWNLPPTAQVIEAKPPKVSEGKDVLLLVHNLQP  
NLTYGIWYKGQMTDLYHYITSYVVGQIIYGPAYSGRETIVSNASLLIQNVTQEDAGSYT  
LHIKRGDGTGGVTGYFTVTLYSETPKPSISSSNLNPREVMEAVRLICDPETPDASYLWL  
LNGQNLPMTHRLQLSKTNRTLYLFGVTKYIAGPYECEIRNPVSASRSDPVTNLNLPKLP  
PYITINNLPREKDVLAFTCEPKSRNYTYIWWLNGQSLPVSPRVKRPIENRILILPSVT  
RNETGPYQCEIRDYGGIRSNPVTLVNLYGPDLPRIYPSFTYYRSGENLDLSCFADSNPP  
AEYSWTINGKFQLSGQKLFIPQITTNHSGLYACSVRNSATGKEISKSMIVKVSETASPV  
TYAGPNTWFQEILL

>sp|Q9UQ74|PSG8\_HUMAN Pregnancy-specific beta-1-glycoprotein 8 OS=Homo sapiens GN=PSG8  
PE=2 SV=2

MGLLSAPPCTQRITWKGLLLTASLLNFWNPPTTAQVTIEAQPTKVSEKDVLLLVHNLQP  
NLTGYIWYKQIRDLHYITSYVVDGQIIIIYGPAYSGRETIYSNASLLIQNVTQEDAGSY  
TLHIIMGGDENRGVTHFTFTLYLETPKPSISSSKLNPREAMEAVSLTCDPETPDASYLW  
WMNGQSLPMSHRLQLSETNRTLFLLGVTKYTAGPYECEIRNPVSASRSDPFTLNLLPKLP  
KPYITINNLPRENKDVNLFTCEPKSENYTYIWWLNGQSLPVSPRVKRPIENRILILPSV  
TRNETGPYQCEIRDQYGGIRSYPVTLNVLYGPDLPRIYPSFTYYRSGEVLYLSCSADSNP  
PAQYSWTINGKFQLSGQKLFIPQITTKHSGLYACSVRNSATGKESSKSMTVKVS GKRI PV  
SLAIGI

>sp|Q99460|PSMD1\_HUMAN 26S proteasome non-ATPase regulatory subunit 1 OS=Homo sapiens  
GN=PSMD1 PE=1 SV=2

MITSAAGIISLLDEDEPQLKEFALHKLNAVVDNFWAEISESVDKIEVLYEDEGFRSRQFA  
ALVASKVFYHLGAFEESLNYALGAGDLFNVNDNSEYVETIIAKCIDHYTKQCVENADLPE  
GEKKPIDQRLEGIVNKMFRCLDDHKYKAIGIALETRRLDVFEKTILESNDVPGMLAYS  
LKLCMSLMQNKQFRNKVLRVLVKIYMNLEKPDFINVCQCLIFLDDPQAVSDILEKLVKED  
NLLMAYQICFDLYESASQQFLSSVIQNLRTVGTPIASVPGSTNTGTVPGSEKSDSDSMETE  
EKTSSAFVGKTPEASPEPKDQTLKMIKILSGEMAIELHLQFLIRNNNTDLMILKNTKDAV  
RNSVCHTATVIANSFMHCGTTSQFLRDNLEWLARATNWAFTATASLGVIIHKGHEKEAL  
QLMATYLPKDTSPGSAYQEGGGLYALGLIHANHGDDI IDYLLNQLKNASNDIVRHGGS LG  
LGLAAMGTARQDVYDLLKTNLYQDDAVTGEAAGLALGLVMLGSKNAQAIEDMVGYAQETQ  
HEKILRGLAVGIALVMYGRMEEADALIESLCRDKDPILRRSGMYTVAMAYCGSGNNKAIR  
RLLHVAVSDVNDVRRAAVESLGFILFRTPEQCPSVVSLLSESYNPHVRYGAAMALGCC  
AGTGNKEAINLLEPMTNDPVNYVRQGALIASALIMIQQTEITCPKVNQFRQLYSKVINDK  
HDDVMAKFGAAILAQGILDAGGHNVTISLQSRTGHTHMPSVVGVLFVTFQFWFPLSHFLS  
LAYTPTCVIGLNKDLKMPKVQYKSCKPSTFAYPAPLEVPEKEKEKEKVSTAVLSITAKAK  
KKEKEKEKEKEEKEMEVDEAEKKEEKEKKKEPEPNFQLLDNPARVMPAQLKVLTMPETCRY  
QPFKPLSIGGIIILKDTSEDI EELVEPVAAHGPKIEEEEQEPEPEPEPEYIDD

>sp|P61289|PSME3\_HUMAN Proteasome activator complex subunit 3 OS=Homo sapiens GN=PSME3  
PE=1 SV=1

MASLLKVDQEVKLKVDSEFRERITSEAEDLVANFFPKLLELDSFLKEPILNIHDLTQIHS  
DMNLPVPDPILLTNSHDGLDGPYKKRRLDECEEAFQGTKVFVMPNGMLKSNQQLVDIIE  
KVKPEIRLLIEKCNVTVMWVQLLIPRIEDGNNFGVSIQEETVAELRTVESEAASYLDQIS  
RYYITRAKLVSKIAKYPHVEDYRRTVTEIDEKEYISRLIISELRNQYVTLHDMILKNIE  
KIKRPRSSNAETLY

>sp|Q92530|PSMF1\_HUMAN Proteasome inhibitor PI31 subunit OS=Homo sapiens GN=PSMF1 PE=1  
SV=2

MAGLEVLFAAAPAITCRQDALVCFLHWEVVTHGYFGLGVGDQPGPNDKKSELLPAGWNN  
NKDLYVLRYEYKDGSRKLLVKAITVESSMILNVLEYGSQQVADLTNLDDYIDAHLGDF  
HRTYKNSEELRSRIVSGIITPIHEQWEKANVSSPHREFPPATAREVDPLRIPPHHPHTSR  
QPPWCDPLGPFVVGGEDLDPFGPRRGMIVDPLRSGFPRALIDPSSGLPNRLPPGAVPPG  
ARFDPFGPIGTSPPGPNPDHLPPPgyDDMYL

>sp|Q8IYL9|PSYR\_HUMAN Psychosine receptor OS=Homo sapiens GN=GPR65 PE=2 SV=1  
MNSTCIEEQHDLHDYLFPIVYIFVIVSIPANIGSLCVSFLQAKKESELGIYLFSLSLSD

LLYALTPLWIDYTNKDNWTFSPALCKGSAFLMYMNFYSSTAFLTCIAVDRYLAVVYPL  
KFFFLRTRRFALMVSLSIWILETIFNAVMLWEDETVEYCDAEKSNFTLCYDKYPLEKWQ  
INLNLFRCTCTGYAIPVLVTILICNRKVYQAVRHNKATENKEKKRIIKLLVSITVTVLCFT  
PFHVMLLIRCILEHAVNFEDHSNSGKRTYTMYRITVALTSLNCVADPILYCFVTETGRYD  
MWNILKFCTGRCNTSQRRKRILSVSTKDTMELEVLE

>sp|Q6UWS5|PT117\_HUMAN Protein PET117 homolog, mitochondrial OS=Homo sapiens GN=PET117  
PE=3 SV=1

MSRSSKVVLGLSVLLTAATVAGVHVKKQWDQQRLRDGVIRDIERQIRKKENIRLLGEQII  
LTEQLEAEREKMLLAKGSQKS

>sp|Q9Y6C5|PTC2\_HUMAN Protein patched homolog 2 OS=Homo sapiens GN=PTCH2 PE=2 SV=2

MTRSPPLRELPPSYTPPARTAAPQILAGSLKAPLWLRAYFQGLLFSLGCGIQRHCGKVLF  
LGLLAFGALALGLRMAIIETNLEQLWVEVGSRSVQELHYTKEKLGEAAAYTSQMLIQAR  
QEGENILTPEALGLHLQAALTASKVQVSLYGKSWDLNKICYKSGVPLIENGMIERMIEKL  
FPCVILTPLDCFWEQAKLQGG SAYLPGRPDIQWTNLDPEQLLEELGPFASLEGFRELDDK  
AQVGQAYVGRPCLHPDDLHCPPSAPNHSRQAPNVAHELSGGCHGFSHKFMHWQEELLLG  
GMARDPQGELLRAEALQSTFLLMSPRQLYEHFRGDYQTHDIGWSEEQASTVLQAWQRRFV  
QLAQEALPENASQIHAFSSTLDDILHAFSEVSAARVGGYLLMLAYACVTMLRWDCAQ  
SQGSVGLAGVLLVALAVASGLGALLGITFNAATTQVLPFLALGIGVDDVFLLAHAFTE  
ALPGTPLQERMGECLQRTGTSVVLTSINNMAAFLMAALVPIPALRAFSLQAAIVVGCTFV  
AVMLVFPAILSLDLRRRHCRQLDVLCCFSSPCSAQVIQILPQELGDGTVPVGLAHLTATV  
QAFTHCEASSQHVVITLPPQAHLVPPSPDPLGSELFSPGGSTRDLLGQEEETRQKAACKS  
LPCARWNLAHFARYQFAPLLLQSHAKAIVLVLFGALLGLSLYGATLVQDGLALTDVVPRG  
TKEHAFLSAQLRYFSLYEVALVTGGGFDYAHSQRALFDLHQRFSSLKAVLPPPATQAPRT  
WLHYRNLWLQGIQAAFDQDASGRITRHSYRNGSEDGALAYKLLIQTGDAQEPLDFSQLT  
TRKLV DREGLIPPELFYMGTLVWVSSDPLGLAASQANFYPPPEWLHDKYDTTGENLRIP  
PAQPLEFAQFPFLRLGLQKTADFVEAIEGARAACAEAGQAGVHAYPSGSPFLFWEQYGL  
RRCFLLAVCILLVCTFLVCALLLNPNWTAGLIVLVLAMMTVELFGIMGFLGIKLSAIPVV  
ILVASVGIGVEFTVHVALGFLTQGSRLRAAHLEHTFAPVTDGAISTLLGLLMLAGSH  
FDFIVRYFFAALTVLTLLGLLHGLVLLPVLLSILGPPPEVIQMYKESPEILSPPAPQGGG  
LRWGASSSLPQSFAVTTSMPTVAIHPPPLPGAYIHPAPDEPPWSPAATSSGNLSSRGPGP  
ATG

>sp|Q8N8N7|PTGR2\_HUMAN Prostaglandin reductase 2 OS=Homo sapiens GN=PTGR2 PE=1 SV=1

MIVQRVVLNSRPGKNGNPVAENFRMEEVYLPDNINEGVQVVRTLYLSVDPYMRCRMNEDT  
GTDYITPWQLSQVVDGGGIGIIEESKHTNLTKGDFVTSFYWPWQTKVILDGNSLEKVPDQ  
LVDGHL SYFLGAIGMPGLTSLIGIQEKGHITAGSNKTMVVSAGACGSVAGQIGHFLGC  
SRVVGICGTHEKCILLTSELGFDAAINYKKNVAEQLRESCPAGVDVYFDNVGGNISDTV  
ISQMNENSHIILCGQISQYNKDVYPYPPPLSPAIEAIQKERNITRERFLVLNYKDKFEPGI  
LQLSQWFKEGKLKIKETVINGLENMGAAFQSMMTGGNIGKQIVCISEEISL

>sp|Q9Y3E5|PTH2\_HUMAN Peptidyl-tRNA hydrolase 2, mitochondrial OS=Homo sapiens GN=PTRH2  
PE=1 SV=1

MPSKSLVMEYLAHPSTLGLAVGVACGMCLGWSLRVCFGMLPKSKTSKTHTDTESEASILG  
DSGEYKMILVVRNDLKMKGKVAACQSHAAYSAYKQIQRRNPEMLKQWEYCGQPKVVVKA  
PDEETLIALLAHAKMLGLTVSLIQDAGRTQIAPGSQTVLGIGPGPADLIDKVTGHLKLY

>sp|Q3KNS1|PTHD3\_HUMAN Patched domain-containing protein 3 OS=Homo sapiens GN=PTCHD3 PE=1 SV=3

MPWVEPKPRPGPEQKPKLTKPDSATGPQWYQESQESSESEKQPPPGPLAPPKSPEPSGPL  
ASEQDAPLPEGDDAPPRPSMLDDAPRLPLELDDAPLPEEETPEPTAICRHRHRCHTDCLE  
GLLSRTFQWLGWQVGAHPWIFLLAPLMLTAALGTGFLYLPKDEEEDLEEHYTPVGSPAKA  
ERRFVQGHFTTNDSYRFSASRRSTEANFVSLLVVSYSDSLDPATFAEVSKLDGAVQDLR  
VAREKGSQIQYQQVCARYRALCVPPNPILYAWQVNKTLNLSSISFPAYNHGRHPLYLTGF  
FGGYILGGSGLMGQLLLRAKAMRLLYLKTEDPEYDVQSKQWLTHLLDQFTNIKNILALK  
KIEVVHFTSLSRQLEFEATSVTVIPVFHLAYILILFAVTSCFRFDCIRNKMCAAFGVI  
SAFLAVVSGFGLLLHIGVPFVIIIVANSPFLILGVGVDDMFIMISAWHKTNLADDIRERMS  
NVYSKAAVSITITITITNILALYTGIMSSFRSVQCFCIYTGMTLLFCYFYNITCFGAFMAL  
DGKREVVCLCWLKKADPKWPSFKKFCFPFGSVPDEHGTDIHPISLFFRDYFGPFLTRSE  
SKYFVVFIYVLYIISSIIYGC FHVQEGDLRLNASDDSYITPYFNVEENYFSDYGPRVMVI  
VTKKVDYWDKDVQRKLENTKIFEKNVYVDKNLTEFWLDAYVQYLKGN SQDPNEKNTFMN  
NIPDFLSNFPNFQHDINISSSNEIISSRGFIQTTDVSSSAKKKILLF

>sp|Q8N142|PURA1\_HUMAN Adenylosuccinate synthetase isozyme 1 OS=Homo sapiens GN=ADSSL1 PE=1 SV=1

MSGTRASNDRPPGAGGVKRGRLQQEAAATGSRVTTVLGAQWGDEGKGKVVDLLATDADI I  
SRCQGGNAGHTVVVDGKEYDFHLLPSGIINTKAVSFIGNGVVIHLPGLFEEAEKNEKKG  
LKDWEKRLIISDRAHLVDFDHQAVDGLQEVQRQAQEGKNIGTTKKGIGPTYSSKAARTGL  
RICDLLSDFDEFSSRFKNLAHQHQSMPFTEIDIEGQLKRLKGFAERIRPMVRDGVYFMY  
EALHGPPKKILVEGANAALLDIDFGTYPFVTSSNCTVGGVCTGLGIPPQNIGDVYGVVKA  
YTTRVGIGAFPTEQINEIGLLQTRGHEWGVTTGRKRRCGWLDLMILRYAHMVNGFTALA  
LTKLDILDVLGEVKVGSYKLNKGRIPIYPANQEMLQKVEVEYETLPGWKADTTGARRWE  
DLPPQAQNYIRFVENHVGVAWKVWVGVSRESMIQLF

>sp|Q56P42|PYDC2\_HUMAN Pyrin domain-containing protein 2 OS=Homo sapiens GN=PYDC2 PE=1 SV=1

MASSAELDFNLQALLEQLSQDEL SKFKSLIRTISLGKELQTVPQTEVDKANGKQLVEIFT  
SHSCSYWAGMAAIQVFEKMNQTHLSGRADEHCVMPPP

>sp|P11216|PYGB\_HUMAN Glycogen phosphorylase, brain form OS=Homo sapiens GN=PYGB PE=1 SV=5

MAKPLTDSEKRKQISVRGLAGLDVAEVRKSFNRLHFTLVKDRNVATPRDYFFALAHTV  
RDHLVGRWIRTQQHYERDPKRIYYLSLEFYMGRTLQNTMVNLGLQNACDEAIYQLGLDL  
EELEEIEEDAGLGNGLGRLAACFLDSMATLGLAAYGYGIRYEFQIFNQKIVNGWQVEEA  
DDWLRYGNPWEKARPEYMLPVHFYGRVEHTPDGVKWLDTQVVLAMPYDTPVPGYKNNTVN  
TMRLWSAKAPNDFKLQDFNVGDYIEAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFV  
VAATLQDIIRRFKSSKFGCRDPVRTCFETFDPKVAIQLNTHPALSIPELMRILVDVEKV  
DWDKAWETTKKTCAYNHTVLPEALERWPVSMFEKLLPRHLEIIYAINQRHLDHVAALFP  
GDVDRLRRMSVIEEGDKRINMAHLCVIGSHAVNGVARIHSEIVKQSVFKDFYELEPEKF  
QNKTNGITPRRWLLCNPLADTIVEKIGEEFLTDLSQLKKLLPLVSDEVFIRDVAKVKQ  
ENKLFSAFLEKEYVKINPSSMFDVHVKRIHEYKRQLLNCLHVVTLYNRIKRDPKAFV  
PRTVMIGGKAAPGYHMAKLI I KLVTSIGDVVNHDVPVGDRLKVI FLENYRVSLAEKVIPA  
ADLSQQISTAGTEASGTGNMFKMLNGALTIGTMDGANVEMAEEGAENLFI FGLRVEDVE  
ALDRKGYNAREYYDHLPELKQAVDQISSGFFSPKEPDCFKDIVNMLMHDRFKVFADYEA

YMQCQAQVDQLYRNPKEWTKKVIIRNIACSGKFSSDRTITEYAREIWGVEPSDLQIPPPNI  
PRD

>sp|P11217|PYGM\_HUMAN Glycogen phosphorylase, muscle form OS=Homo sapiens GN=PYGM PE=1  
SV=6

MSRPLSDQEKRKQISVRGLAGVENVTELKKNFNRHLHFTLVKDRNVATPRDYYFALAHTV  
RDHLVGRWIRTQQHYEYKDPKRIYYLSLEFYMGRTLQNTMVNLALENACDEATYQLGLDM  
EELEEIEEDAGLGNGLGRLAACFLDSMATLGLAAYGYGIRYEFQKISGGWQMEEA  
DDWLRYGNPWEKARPEFTLPVHFYGHVEHTSQGAKWVDTPVVLAMPYDTPVPGYRNNVVN  
TMRLWSAKAPNDFNLKDFNVGGYIQAVLDRNLAENISRVLYPNDFEKGKELRLKQYFV  
VAATLQDIIRRFKSSKFGCRDPVRTNFDAPDKVAIQLNDTHPSLAIPELMRILVDLERM  
DWDKAWDVTVRTCAYTNHTVLPALERWPVHLETLPRHLQIIYEINQRFLNRVAAAF  
GDVDRLRRMSLVEEGAVKRINMAHLCIAGSHAVNGVARIHSEILKKTIFKDFYELEPHKF  
QNKTNGITPRRWLVLCNPGLAEVIAERIGEDFISDLQRLKLSFVDDEAFIRDVAKVKQ  
ENKLKFAAYLEREYKVHINPNSLFDIQVKRIHEYKRQLNCLHVITLYNRIKREPKNKFFV  
PRTVMIGGKAAPGYHMAKMIIRLVTAIGDVVNHDPAVGDRLRVIFLENYRVSLAEKVIPA  
ADLSEQISTAGTEASGTGNMKFMLNGALTIGTMDGANVEMAEAGEENFFIFGMRVEDVD  
KLDQRGYNAQEYYDRIPELRQVIEQLSSGFFSPKQPDLFKDIVNMLMHDRFKVFADYED  
YIKCQEKVSALYKNPREWTRMVIIRNIATSGKFSSDRTIAQYAREIWGVEPSRQRLPAPDE  
AI

>sp|Q9Y3Y4|PYG01\_HUMAN Pygopus homolog 1 OS=Homo sapiens GN=PYG01 PE=1 SV=2

MPAENSAPAYKVSSHGGSDGLGGLGGPGVQLGSPDKKKRKANTQGSPFPPLSEYAPPPN  
PNSDHLVAANPFDDNYNTISYKPLSSNPYLPGYPGFGGYSTFRMPHVPPRMSSPYCG  
PYSLRNQPHFPQNLPLGMGFNRPHAFNFGPHDNSSFGNPSYNNALSQNVNMPNQHFRQNP  
AENFSQIPPQNASQVSNPDLASNFVPGNNSNFTSPLESNHSFIPPPNTFGQAKAPPPKQD  
FTQGATKNTNQSSAHPHLNMDDTVNQSNIELKNVNRNNAVNQENSRSSTEATNNPA  
NGTQNKPRQPRGAADACTTEKSNKSSLHPNRHGHSSSDPVYPCGICTNEVNDDQDAILCE  
ASCQKWFHRICTGMTETAYGLLTAEASAVWGCDTCMADKDVQLMRTRETFGPSAVGSDA

>sp|000231|PSD11\_HUMAN 26S proteasome non-ATPase regulatory subunit 11 OS=Homo sapiens  
GN=PSMD11 PE=1 SV=3

MAAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKT  
GQAAELGGLLKYPVLPFLNSISKAKAARLVRSLLDLFLDMEATGQVELCLECIEWAKSE  
KRTFLRQALEARLVSLYFDTKRYQEALHLGSQLLRELKMKDDKALLVEVQLLESKTYHAL  
SNLPKARAALTSARTTANAIYCPKQLATLDMQSGIIHAAEEKDWKTAYSFYFEAFEGYD  
SIDSPKAITSKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRSLA  
DFEKALTDYRAELRDDPIISTHLAKLYDNLEQNLIRVIEPFSRVQIEHISSLIKLSKAD  
VERKLSQMILDKKFHGLDQGEGLIIFDEPPVDKTYEAALETIQNMSKVVDLSYNKAKK  
LT

>sp|Q9BT73|PSMG3\_HUMAN Proteasome assembly chaperone 3 OS=Homo sapiens GN=PSMG3 PE=1 SV=1  
MEDTPLVISKQKTEVVCVPTQVVCTAFSSHILVVVTQFGKMGTLVSLEPSSVASDVSKP  
VLTTKVLLGQDEPLIHVFAKNLVAFVSQEAGNRAVLLAVAVKDKSMEGLKALREVIRVCQ  
VW

>sp|P11686|PSPC\_HUMAN Pulmonary surfactant-associated protein C OS=Homo sapiens GN=SFTPC  
PE=1 SV=2

MDVGSKEVLMESPDPYSAAPRGRFGIPCCPVHLKRLLIIVVVVVLIIVVIVGALLMGLHM

SQKHEMVLEMSIGAPEAQQRLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKPAPGTC  
CYIMKIAPESIPSLEALNRKVHNFQMECSLQAKPAVPTSKLGQAEGRDAGSAPSGGDPAF  
LGMAVNTLCGEVPLYI

>sp|Q96NR3|PTHD1\_HUMAN Patched domain-containing protein 1 OS=Homo sapiens GN=PTCHD1 PE=2  
SV=2

MLRQVLHRGLRTCFSRLGHFIASHPVFFASAPVLISILLGASFSRYQVEESVEHLLAPQH  
SLAKIERNLVNSLFPVNRSKHRLYSDLQTPGRYGRVIVTSFQKANMLDQHHTDLILKLHA  
AVTKIQVPRPGFNFTFAHICILNNDKTCIVDDIVHVLEELKNARATNRTNFAITYPIHTL  
KDGRAVYNGHQLGGVTVHSKDRVKSAAEIQLTYQLSINSLNDMVAERWESSFCDTVRLF  
QKSNSKVMPYPYTSSSLREDFQKTSRVSELYLVTSLILVVTMAILCCSMQDCVRSKPWL  
LLGLVTISLATLTAAGIINLTGGKYNSTFLGVFPVMLGHGLYGTFFEMLSSWRKTREDQHV  
KERTAAYVADSMLSFSLTTAMYLVTFGIGASPFTNIEAARIFCCNSCIAIFFNYLYVLSF  
YGSSLVFTGYIENNYQHSIFCRKVPKPEALQEKPAWYRFLLTARFSEDTAEGEEANTYES  
HLLVCFLKRYCYDWTINTYVKPFVLFYLIYISFALMGYLQVSEGSDLNIVATATQTIE  
YTTAQQKYFSNYSPIVGYIYESIEYWNTSVQEDVLEYTKGFVRISWFESYLNLYRKLNV  
STGLPKKNFTDMLRNSFLKAPQFSHFQEDIIFSCKYNDVDDVVASRMFLVAKTMETNREE  
LYDLETLRRLSVTSKVKFIVFNPSFVYMDRYASSLGAPLHNSCISALFLLFFSAFLVAD  
SLINWITLTVSVVEFGVIGFMTLWKVELDCISVLCLYGINYTIDNCAPMLSTFVLGKD  
FTRTKWVKNALEVHGVAILQSYLCYIVGLIPLAAVPSNLCTLFRCLFLIAFVTFFHCFA  
ILPVILTFLPPSKKKRKEKKNPENREEIECVEMVDIDSTRVVDQITTV

>sp|O95997|PTTG1\_HUMAN Securin OS=Homo sapiens GN=PTTG1 PE=1 SV=1

MATLIYVDKENEGPGRVVAKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALPKAT  
RKALGTVNRAATESVKTKGPKLQKQPSFSAKMTEKTVKAKSSVPASDDAYPEIEKFFPF  
NPLDFESFDLPEEHQIAHLPLSGVPLMILDEERELEKLFQLGPPSPVKMPSPPWESNLLQ  
SPSSILSTLDVELPPVCCDIDI

>sp|P30566|PUR8\_HUMAN Adenylosuccinate lyase OS=Homo sapiens GN=ADSL PE=1 SV=2

MAAGGDHGSPDSYRSPLASRYASPEMCFVFSDRYKFRTWRQLWLWLAEEQTLGLPITDE  
QIQEMKSNLENIDFKMAAEEERLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGNDTD  
LIILRNALDLLPKLARVISRLADFAKERASLPTLGFTHFQPAQLTTVGKRCCLWIQDLC  
MDLQNLKRVRDDLRFRGVKGTTGTQASFLQLFEGDDHKVEQLDKMVTEKAGFKRAFIITG  
QTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEPEFEKQQIGSSAMPYKRNP  
SERCCSLARHMLTMLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNI  
SEGLVYPKVIERRIRQELPFMATENIIMAMVKAGGSQDCHEKIRVLSQQAASVVKQEGGD  
NDLIERIQVDAYFSPHSQLDHLDPSSFTGRASQQVQRFLEEEVYPLLKPYESVMKVKA  
ELCL

>sp|P30520|PURA2\_HUMAN Adenylosuccinate synthetase isozyme 2 OS=Homo sapiens GN=ADSS PE=1  
SV=3

MAFAETYPAASSLPNGDCGRPRARPGGNRVTTVLGAQWGDEGKGKVVDDLLAQDADIVCRC  
QGGNNAGHTVVVDSVEYDFHLLPSGIINPNVTAFIGNGVVIHLPGLFEEAEKNVQKGKGL  
EGWEKRLIISDRAHIVDFHQAADGIEQQRQEQAQGNLGTTKKGIGPVYSSKAARSLR  
MCDLVSDFDGFSERFKVLANQYKSIYPTLEIDIEGELQKLKGYMEKIKPMVRDGVYFLYE  
ALHGPPKKILVEGANALLDIDFGTYPFVTSSNCTVGGVCTGLGMPPQNVGEVYGVVKAY  
TTRVGIGAFPTEQDNEIGELLQTRGREFGVTTGRKRCGWLDLVLLKYAHMINGFTALAL  
TKLDILDMFTEIKVGVAAYKLDGEIIPHIPANQEVLNKVEVQYKTLPGWNTDISNARAFKE



LPVNAQNYVRFIEDELQIPVKWIGVGKSRESMIQLF

>sp|P29074|PTN4\_HUMAN Tyrosine-protein phosphatase non-receptor type 4 OS=Homo sapiens  
GN=PTPN4 PE=1 SV=1

MTSRFRLPAGRTYNVRASELARDRQHTEVVCNILLDDNTVQAFKVNKHDQGQVLLDVVFK  
HLDLTEQDYFGLQLADDSTDNPRWLDPNKPIRKQLKRGSPYSLNFRVKFFVSDPNKLQEE  
YTRYQYFLQIKQDILTGRLPCPSNTAALLASFAVQSELGDYDQSENLSGYLSDYSFIPNQ  
PQDFEKEIAKLHQHIGLSPAEEFNLYNTARTLELYGVEFHYARDQSNNEIMIGVMSGG  
ILYKNRVRMNTFPWLKIVKISFKCKQFFIQLRKELHESRETLLGFNMVNYRACKNLWKA  
CVEHHTFFRLDRPLPPQKNFFAHYFTLGSKFRYCGRTEVQSVQYGKEKANKDRVFARSPS  
KPLARKLMDWEVVSRRNISDDRLETQSLPSRSPPGTPNHRNSTFTQEGTRLRPSSVGHLV  
DHMVHTSPSEVFVNQRSPSSTQANSIVLESSPSQETPGDGKPPALPPKQSKKNSWNQIHY  
SHSQQDLESHINETFDIPSSPEKPTPNGGIPHDNLVLRMKPDENGRFGFNVKGGYDQKM  
PVIVSRVAPGTPADLCVPRLNEGQVVLINGRDIAEHTHDQVVLFIKASCERHSGELMLL  
VRPNAVYDVVEEKLENEPDFQYIPEKAPLDSVHQDDHSLRESMIQLAEGLITGTVLQFD  
QLYRKKGPMTMSCAKLPQNISKNRYRDISPYDATRVILKGNEDYINANYINMEIPSSII  
NQYIACQGPLPHTCTDFWQMTWEQGSSMVVMLTTQVERGRVKCHQYWPEPTGSSSYGCYQ  
VTCHSEEGNTAYIFRKMTLFNQEKNESRPLTQIQYIAWPDHGVDPDSSDFLDFVCHVRNK  
RAGKEEPVVVHCSAGIGRTGLITMETAMCLIECNQPVYPLDIVRTMRDQRAMMIQTPSQ  
YRFVCEAILKVYEEGFVKPLTTSTNK

>sp|P29350|PTN6\_HUMAN Tyrosine-protein phosphatase non-receptor type 6 OS=Homo sapiens  
GN=PTPN6 PE=1 SV=1

MVRWFHRDLSGDLAETLLKGRGVHGSFLARPSRKNQGDFSLSVRVGDQVTHIRIQNSGDF  
YDLYGGEKFATLTVEYYTQQQGVLDQDRDGTIIHLKYPLNCSDPTSERWYHGHMSGGQA  
ETLLQAKGEPWTFVLVRESLSQPGDFVLSVLSQPKAGPGSPLRVTHIKVMCEGGRYTVGG  
LETFDSLTDLVEHFKKTGIEEASGAFVYLRQPYYATRVNAADIENRVLELNKKQES EDTA  
KAGFWEEFESLQKEVKNLHQRLEGQRPENKGNRYKNILPFDHSRVILQGRDSNIPGSD  
YINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIMTTREVEKGRNK  
CVPYWPVEVGMQRAYGPYSVTNCGEHD TTEYKLRTLQVSPLDNGDLIREIWHYQYLSWPDH  
GVPSEPGGVL SFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVIDMLMENISTKGLDC  
DIDIQKTIQMVRAQRSGMVQTEAQYKFIYVAIAQFIETTKKKLEVLQSQKGQSEYGNIT  
YPPAMKNAHAKASRTSSKHEDVYENLHTKNKREEKVKKQRSADKEKSKGSLKRK

>sp|P43378|PTN9\_HUMAN Tyrosine-protein phosphatase non-receptor type 9 OS=Homo sapiens  
GN=PTPN9 PE=1 SV=1

MEPATAPRPDAPELTPEEEQATKQFLEEINKWTVQYNVSPLSWNVAVKFLMARKFDVLR  
AIELFHSYRETRRKEGIVKLKPHEEPLRSEILSGKFTILNVRDPTGASIALFTARLHHPH  
KSVQHVV LQALFYLLDRAVDSFETQRNGLVFIYDMCGSNYANFELDLGKKVLNLLKGAFP  
ARLKKVLIVGAPIWFRVPYSIISLLLKDKVRERIQILKTSEVTQHLPRECLPENLGGYVK  
IDLATWNFQFLPQVNGHPDPFDEIILFSLPPALDWDSVHVPGPHAMTIQELVDYVNARQK  
QGIYEEYEDIRRENPGVTFHCSMPGNLEKNRYGDVPCLDQTRVKLTKRSGHTQTDYINA  
SFMDGYKQKNAYIGTQGPLENTYRDFWLMVWEQKVLVIMTTRFEEGGRRKCGQYWPLEK  
DSRIRFGFLTVTNLGVENMNHYKKTLEIHNTTEERQKRQVTHFQFLSWPDYGPSSAASL  
IDFLRVVRNQSLAVSNMGARSKGCPEPPIVVHCSAGIGRTGTFCSLDICLAQLEELGT  
LNVFQTVSRMRTQRAFSIQTPSEQYFCYKAILEFAEKEGMVSSGQNLLAVESQ

>sp|A2A3K4|PTPC1\_HUMAN Protein tyrosine phosphatase domain-containing protein 1 OS=Homo sapiens GN=PTPDC1 PE=1 SV=1

MAAGVLPQNEQPYSTLVNNSVCANMKGNLERPTPKYTKVGERLRHVIPGHMACSMACGG  
RACKYENPARWSEQEQAIGVYSSWVTDNILAMARPSSELLEKYHIIDQFLSHGIKTIIN  
LQRPGEHASCNPLEQESGFTYLPEAFMEAGIYFYNFGWKDYGVASLTTILDMVKVMTFA  
LQEGKVAIHCHAGLGRTGVLIACYLVFATRMTADQAIIFVRAKRPNSIQTRGQLLCVREF  
TQFLTPLRNIFSCDPAKAHAVTLPQYLIRQRHLLHGYEARLLKHVPKI IHLVCKLLDLA  
ENRPVMMKDVSEGPGLSAEIEKTMSEMTMQLDKELLRHSDVSNPPNPTAVAADFDRG  
MIFSNEQQFDPLWKRNRVECLQLTHLKRRLSYSDSLKRAENLLEQGETPQTVPAQILV  
GHKPRQQKLISHCYIPQSPEPDLHKEALVRSTLSFWSQSKFGGLEGLKDNGSPIFHGRII  
PKEAQQSGAFSADVSGSHSPGEPVSPSFANVHKDPNPAHQVSHCQCKTHGVGSPGSRVQ  
NSRTPRSLDCGSSPKAQFLVEHETQDSKDLSEAASHSALQSELSAEARRILAAKALANL  
NESVEKEELKRKVMWQKELNSRDGAWERICGERDPFIICSLMWSWVEQLKEPVITKEDV  
DMLVDRRADAAEALFLEKGGHQTILCVLHCIVNLQTIIPVDVEEAFLAHAIFAFTKVNFD  
SENGPTVYNTLKKIFKHTLEEKRKMTKDGPKPGL

>sp|Q8WUK0|PTPM1\_HUMAN Phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1 OS=Homo sapiens GN=PTPMT1 PE=1 SV=1

MAATALLEAGLARLVFYPTLLYTLFRGKVPGRAHRDWHRIDPTVLLGALPLRSLTRQLV  
QDENVRGVITMNEEYETRFLCNSSQEWKRLGVEQLRLSTVDMTGIPDLNLQKGVQFALK  
YQSLGQCQVYVHCKAGRSRSATMVAAYLIQVHKWSPEEAVRAIAKIRSYIHIRPGQLDVLK  
EFHKQITARATKDGTFFVISKT

>sp|Q92932|TPPR2\_HUMAN Receptor-type tyrosine-protein phosphatase N2 OS=Homo sapiens GN=TPPRN2 PE=1 SV=2

MGPPLPLLLLLLLLLPPRVLPAPSSVPRGRQLPGRLGCLLEEGCGASEACVNDGVFGR  
CQKVPAMDIFYRYEVSVALQRLRVALQKLSGTGFTWDDYTQYVMDQELADLPKTYLRRP  
EASSPARPSKHSVGSERRYSREGGAALANALRRHLPFLEALSQAPASDVLARTHTAQRDP  
PAEGDDRFSESILTYVAHTSALTYPGSRQLREDLLPRTLGLQLPDELSPKVD SGVDRH  
HLMAALSAYAAQRPAPPGEQSLEPQYLLRAPSRMPRLLAPAAPQKWPSPLGDEDPSS  
TGDGARIHTLLKDLRQPAEVRGLSGLELDGMAELMAGLMQGVHDGVARGSPGRAALGES  
GEQADGPKATLRGDSFPDDGVQDDDDRLYQEVHRLSATLGGLQDHGSRLLPALPFARP  
LDMERKKSEHPESLSSEEETAGVENVKSQTYSKDLLGQPHSEPGAAAFGELQNQMPPG  
SKEEQSLPAGAEALSDGLQLEVQPSEEEARGYIVTDRDPLRPEEGRRLVEDVARLLQVP  
SSAFADVEVLGPAVTFKVSANVQNVTTEDVEKATVDNKKLEETSGLKILQTGVGSKSKL  
KFLPPQAEQEDSTKFIALTLVSLACILGVLLASGLIYCLRHSSQHRLKEKLSGLGGPGA  
DATAAYQELCRQRMATRPDRPEGPHTSRISSVSSQFSDGPIPSPSARSSASSWSEEPVQ  
SNMDISTGHMILSYMEDHLKKNRLEKEWEALCAYQAEPNSSFVAQREENVPKNRSLAVL  
TYDHSRVLLKAENSHSHSDYINASPIMDHDPRNPAYIATQGPLPATVADFWQMVWESGCV  
VIVMLTPLAENGVRQCYHYWPDEGSNLYHIYEVNLVSEHIWCEDFLVRSFYLKNLQTNET  
RTVTQFHFLSWYDRGVPSSSRLLDFRRKVNKCYRGRSCPIIVHCSDGAGRSGTYVLIDM  
VLNMAKGAKEIDIAATLEHLRDQRPQGMVQTKEQFEFALTAVAEVNAILKALPQ

>sp|P23467|TPPRB\_HUMAN Receptor-type tyrosine-protein phosphatase beta OS=Homo sapiens GN=TPPRB PE=1 SV=3

MLSHGAGLALWITLSLLQTGLAEPERCNFTLAESKASSHSVSIQWRILGSPCNFSLIYSS  
DTLGAALCPTFRIDNTTYGCNLQDLQAGTIYNFRIISLDEERTVVLQTDPLPPARFGVSK

EKTTSTSLHVWWTPSSGKVTSYEVQLFDENNQKIQGVQIQESTSWNEYTFFNLTAGSKYN  
IAITAVSGGKRSFSVYTNGSTVPSVKDIGISTKANSLLISWSHGSGNVERYRLMLMDKG  
ILVHGGVVDKHATSAYFHGLTPGYLYNLTMTEAAGLQNYRWKLVRTAPMEVSNLKVNTD  
GSLTSLKVWQRPQPNVDSYNTLSHKGTIKESRVLAPWITETHFKELVPGRLYQVTVSC  
VSGELSAQKMAVGRTFPDKVANLEANNGRMRSLLVSWSPAGDWEQYRILLFNDSVLL  
NITVGKEETQYVMDDTGLVPGRQYEVEVIVESGNLKNSERCQGRTPPLAVLQLRVKHANE  
TSLSIMWQTPVAEWEKYIISLADRDLIIHKSLSKDAKEFTFTDLVPGRKYMATVTSISG  
DLKNSSSVKGRTPAQVTDLHVANQGMTSSLFTNWTQAQGDVEFYQVLLIHENVVKNES  
ISSETSRYSFHSLSKSGSLYSVVVTVSGGSSRQVVVEGRTVPSSVSGVTNNNGRNDYL  
SVSWLLAPGVDVNYEVLTHSDGKVVQSLVIAKSVRECSFSSLTPGRLYTVTITTRSGKYE  
NHSFSQERTVPDKVQGVSVSNSARSDYLRVSWHATGDFDHYEVTIKNNFIQTKSIPK  
SENECVFVQLVPGRLYSVTVTTKSGQYEANEQNGRTIPEPVKDLTLNRSTEDLHVTWS  
GANGDVDQYEIQLLFNDMKVFPFHLVNTATEYRFTSLTPGRQYKILVLTISGDVQQSAF  
IEGFTVPSAVKNIHISPNGATDSLTVNWTGGGDVDSYTVSAFRHSQKVDSQTIPIKHVFE  
HTFHRLEAGEQYQIMIASVSGSLKNQINVVGRTPASVQGVADNAYSSYSLIVSWQKAA  
GVAERYDILLTENGILLRNTSEPATTQHKFEDLTPGKKYKIQILTVSGGLFSKEAQTE  
GRTVPAAVTDLRITENSTRHLSFRWTASEGELSWYNIFLYNPDGNLQERAQVDPLVQSFS  
FQNLQGRMYKMWIVTHSGELSNESFIFGRTPASVSHLRGSRNTTDSLWFNWSPASGD  
FDFYELILYNPNTKKENWKDKDLTEWRFQGLVPGRKYVLWVVTHSGDLSNKVTAESRTA  
PSPPSLMSFADIANTSLAITWKPPDWTDYDNFELQWLPRDALTVFNPNYNNRKSEGRIVY  
GLRPGRSYQFNVKTVSGDSWKTYSKPIFGSVRTKPKIQNLHCRPQNSTAIACSWIPADS  
DFDGYSIECRKMDTQEVEFSRKLEKEKSLLNIMMLVPHKRYLVSIVKQSAGMTSEVEDS  
TITMIDRPPPPPHIRVNEKDVLISKSSINFTVNCWFSWSDTNGAVKYFTVVVREADGSDE  
LKPEQQHPLPSYLEYRHNASIRVYQTNFYASKAENPNNSKSFNIKGAEMESLGGKCD  
PTQQKFCDGPLKPHYTAYRISIRAFATQLFDEDLKEFTKPLYSDTFFSLPITTESEPLFGAI  
EGVSAGLFLIGMLVAVVALLICRQKVSHGRERPSARLSIRDRPLSVHLNLGQKGNRKT  
CPIKINQFEGHFMKLQADSNYLLSKEYEELKDVGRNQSCDIALLPENRGKNRYNNILPYD  
ATRVKLSNVDDDDPCSDYINASYIPGNFRREYIVTQGPLPGTKDDFWKMWQNVHNIVM  
VTQCVEKGRVKCDHYWPADQDSLYYGDLILQMLSESVLPEWTIREFKICGEEQLDAHRLI  
RHFHYTVWPDHGVPETTQSLIQFVRTVRDYINRSPGAGPTVVHCSAGVGRTGTFIALDRI  
LQQLDSKDSVDIYGAVDLRLHRVHMVQTECQYVYLHQCVRDVLRARKLRSEQENPLFPI  
YENVNPEYHRDPVYSRH

>sp|P23469|PTPRE\_HUMAN Receptor-type tyrosine-protein phosphatase epsilon OS=Homo sapiens  
GN=PTPRE PE=1 SV=1

MEPLCPLLLVGFSPLARALRGNETTADSNETTTTSGPPDPGASQPLLAWLLLPLLLLLL  
VLLLAAYFFRFRKQKAVVSTSDKKMPNGILEEQEQQRVMLLSRSPSGPKKYFPIPVEHL  
EEEIRIRSADDCKQFREEFNSLPSGHIQGT FELANKEENREKNRYPNILPNDHSRVILSQ  
LDGIPCSYINASYIDGYKEKNKFAAQGPKQETVNDFWRMVWEQKSATIVMLTNLKERK  
EEKCHQYWPDQGCWYTGNI RVCVEDCVVLVDYTIRKFCIQQLPDGCKAPRLVSQLHFTS  
WPDFGVPTPIGMLKFLKKVKTLPVHAGPIVVHCSAGVGRTGTFIVIDAMMAMMHAEQK  
VDVFEFVSRI RNQRPQMVTDMQYTFIYQALLEYYLYGDEL DVSSLEKHLQTMHGTTH  
FDKIGLEEEFRKLTNVRIMKENMRTGNLPANMKKARVIQIIPYDFNRVILSMKRGQEYTD  
YINASFIDGYRQKDYFIATQGPLAHTVEDFWRMIEWEWSHTIVMLTEVQEREQDKCYQYW  
PTEGSVTHGEITIEIKNDTLSEAISIRDFLVTLNQPQARQEEQVRVVRQFHFHGWPEIGI

PAEGKGMIDLIAAVQKQQQQTGNHPITVHCSAGAGRTGTFIALSNILERVKAEGLLDVFQ  
AVKSLRLQRPHMVQTLEQYEFQYKVVQDFIDIFSDYANFK

>sp|Q15262|PTPRK\_HUMAN Receptor-type tyrosine-protein phosphatase kappa OS=Homo sapiens  
GN=PTPRK PE=1 SV=2

MDTTAAALPAFVALLLLSPWPLLGSAGGQFSAGGCTFDDGPGACDYHQDLYDDFEWVHV  
SAQEPHYLPPEMPQGSYMIVDSSDHPGEKARLQLPTMKENDTHCIDFSYLLYSQKGLNP  
GTLNILVRVNGPLANPIWNVGTGTRDWLRAELAVSTFWPNEYQVIFEAEVSGGRSGYI  
AIDDIQVLSYPCDKSPHFLRLGDVEVNAGQNATFQCIATGRDAVHNKLWLQRRNGEDIPV  
AQTKNINHRRFAASFRLQEVTKTDQDLRYCVTQSERGSGVSNFAQLIVREPPRIAPPQL  
LGVGPTYLLIQLNANSIIGDGPILKEVEYRMTSGSWTETHAVNPTYKLWHLDPDTEYE  
IRVLLTRPGEGETGLPGPPLITRTKCAEPMRTPKTLKIAEIQARRIAVDWESLGYNITRC  
HTFNVITICYHYFRGHNESKADCLDMDPKAPQHVVNHLPPYTNVSLKMILTNPGRKESEE  
TIIQTDEDVPGVPVKSLQGTSFENKIFLNWKEPLDPNGIITQYEISYSSIRSFDPAVPV  
AGPPQTVSNLWNSTHHVFMHLHPGTTYQFFIRASTVKGFGPATAINVTNISAPTLPDYE  
GVDASLNETATTITVLLRPAQAKGAPISAYQIVVEELHPHRTKREAGAMECYQVPVITYQN  
AMSGGAPYYFAAELPPGNLPEPAPFTVGDNRTYQGFWNPLAPRKGYNIFYQAMSSVEKE  
TKTQCVRITKAATEEPEVIPDPAKQTDREVVKIAGISAGILVFILLLLVVILIVKSKLA  
KKRKDAMGNTRQEMTHMVNAMDRSYADQSTLHAEDPLSITFMDQHNFSPRYENHSATAES  
SRLLDVPRYLCEGTESPYQTGQLHPAIRVADLLQHINLMKTSDSYGFKEEYESFFEGQSA  
SWDVAKKDQNRANKRYGNI IAYDHSRVILQPVEDDPSSDIYNANYIDGYQRPSHYIATQG  
PVHETVYDFWRMIWQEQSACIVMTNLVEVGRVKCYKYWPDDTEVYGDFKVTCEMEPLA  
EYVVRTFTLERRGYNEIREVKQHFHTGWPDHGVPYHATGLLSFIRRVKLSNPPSAGPIVV  
HCSAGAGRTGCYIVIDIMDMAEREGVVDIYNCVKALRSRRINMVQTEEQYIFIHDAILE  
ACLCGETAIPVCEFKAAAYFDMIRIDSQTNSSHLKDEFQTLNSVTPRLQAEDCSIACLPRN  
HDKNRFMDMLPPDRCLPFLITIDGESSNYINAALMSYRQPAAFIQTQYPLPNTVKDFWR  
LVYDYGCTSIIVMLNEVDLSQGCQYWPEEGMLRYGPIQVECMSCSMDCDVINRIFRICNL  
TRPQEGYLMVQQFQYLGWASHREVPGSKRSFLKLILQVEKWQEECEEGERGTIIHCLNGG  
GRSGMFCAIGIVVEMVKRQNVVDVFHAVKTLRNSKPNMVEAPEQYRFCYDVALEYLESS

>sp|P28827|PTPRM\_HUMAN Receptor-type tyrosine-protein phosphatase mu OS=Homo sapiens  
GN=PTPRM PE=1 SV=2

MRGLGTCLATLAGLLTAAGETFSGGCLFDEPYSTCGYSQSEGDDFNWEQVNTLTKPTSD  
PWMPSGSFMLVNASGRPEGQRAHLLLPQLKENDTHCIDFHVFSSKSNPPGLNVYVKV  
NNGPLGNPIWNISGDPTRTNRAELAISTFWPNFYQVIFEVITSGHQGYLAIDEVKVLGH  
PCTRTPHFLRIQNEVNAGQFATFQCSAIGRTVAGDRLWLQGIDVRDAPLKEIKVTSSRR  
FIASFNVNTTKRDAGKYRCMIRTEGGVGISNYAELVVEKPPVPIAPPQLASVGATYLWI  
QLNANSINGDGPVAREVEYCTASGSWNRQPV DSTSYKIGHLDPDTEYEISVLLTRPGE  
GGTGSPPALRTRTKCADPMRGPRKLEVVEVKSQITIRWEPPFGYNVTRCHSYNLTVHYC  
YQVGGQEQRVEEVSWDTENSHPQHTITNLSPYTNVSVKLILMNPEGRKESQELIVQTD  
LPGAVPTESIQGSTFEEKIFLQWREPTQTYGVITLYEITYKAVSSFDPEIDLSNQSGRVS  
KLGNETHFLFGLYPGTTYSFTIRASTAKGFGPPATNQFTTKISAPSMPAYELETPLNQ  
DNTVTVMKPAHSRGAPVSVYQIVVEERPRRTKKTTEILKCYVPVPIHFQNASLLNSQYY  
FAAEFPADSLQAAQPFITGDNKTYNGYWNTPLLKYKYRIYFQAASRANGETKIDCVQVA  
TKGAATPKPVPEPEKQTDHTVKIAGV IAGILLFV IIFLGVLVMKKRKLAKKRKETMSST  
RQEMTMVNMSMDKSYAEQGTNCDEAFSMDTHNLNGRSVSSPSSFTMKTNTLSTSVPSY

YPDETHMASDTSSLVQSHTYKKREPADVPYQTGQLHPAIRVADLLQHITQMKCAEGYGF  
KEEYESFFEGQSAPWDSAKKDENRMKNRYGNI IAYDHSRVRLQTIEGDTNSDYINGNYID  
GYHRPNHYIATQGPMQETIYDFWRMVWHENTASIIIMVTNLVEVGRVKCKKYWPDDTEIYK  
DIKVTLIETELLAELYVIRTFAVEKRGVHEIREIRQFHFTGWPDHGVPYHATGLLGFVRQV  
KSKSPPSAGPLVVHCSAGAGRTGCFIVIDIMDMAEREGVVDIYNCVRELRSRRVNMVQT  
EEQYVFIHDAILEACL CGDTSVPASQVRSLYYDMNKLDPQTNSSQIKEEFRTLNMVTPTL  
RVEDCSIALPRNHEKNRCMDILPPDRCLPFLITIDGESSNYINAALMDSYKQPSAFIVT  
QHPLPNTVKDFWRLVLDYHCTSVVMLNDVPAQLCPQYWPENGVHRHGPIQVEFVSADLE  
EDIISRIFRIYNAARPDGYSRMVQQFQFLGWPMYRDTVPVSKRSFLKLIRQVDKWQEEYNG  
GEGRTVVHCLNGGSRGTFCASIVCEMLRHQRTVDVFHAVKTLRNNKPNMVDLLDQYKF  
CYEVALEYLNSG

>sp|Q16827|PTPRO\_HUMAN Receptor-type tyrosine-protein phosphatase 0 OS=Homo sapiens  
GN=PTPRO PE=1 SV=2

MGHLPTGIHGARRLLPLLWFLVLFKNATAFHVTQDDNNIVVSLEASDVISPASVYVVKI  
TGESKNYFFEFEEFNSTLPPPVIFKASYHGLYYIITLVVNGNVVTKPSRSITVLTKPLP  
VTSVSIYDYKPSPETGVLFEIHYPEKYNVFTRVNISYWEGKDFRTMLYKDFFKGKTVFNH  
WLP GMCYSNITFQLVSEATFNKSTLVEYSGVSHEPKQHRTAPYPQNI SVRIVNLKNNW  
EEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNISSGWPDFNSSDYETTSQPYWW  
DSASAPESEDEFVSVLPMYENNSTLSETEKSTSGSFSFFPVQMILTWLPPKPPTAFDG  
FHHIEREENFTEYLMVDEEAHEFVAELKEPGKYKLSVTTFSSSGSCETRKSQSAKLSF  
YISPSGEWIEELTEKPQHVSVHVLSTTALMSWTSSQENYNSTIVSVVSLTCQKQKESQR  
LEKQYCTQVNSSKPIIENLVGAQYQVVIYLRKGPLIGPPSDPVTFAIVPTGIKDLMLYP  
LGPTAVVLSWTRPYLGVRKYVVMFYFNPATMTSEWTTYEIAATVSLTASVRIANLLP  
AWYYNFRVMTMTWGDP ELSCCDSSTISFITAPVAPEITSVEYFN SLLYISWYGD DTTDL  
SHSRMLHWMVVAEGKKIKKSVTRNVMTAILSLPPGDIYNLSVTACTERGSNTSMLRLVK  
LEPAPPKSLFAVNKTQTSVTLWVEEGVADFFEVFCQQVGSSQKTKLQEPVAVSSHVVTI  
SSLLPATAYNCSVTSFSDSPSVPTFIAVSTMVTEMNPNVVVISVLAILSTLLIGLLLVT  
LIILRKKHLQMARECGAGTFVNFA SLERDGLPYNWRRSIFAFLTLLPSCLWTDYLLAFY  
INPWSKNGLKRRKLTNPVQLDDFDAYIKDMAKDSYKFSLQFEELKLIGLDIPHFAADLP  
LNRCKNRYTNILPYDFS RVRLVSMNEEGADYINANYIPGYNSPQEYIATQGPLPETRND  
FWKMLVQKKSQIIIVMLTQCNEKRRVKCDHYWPFTEPIAYGDITVEMISEEEQDDWACRH  
FRINYADEMQDVMHFNYTAWPDHGVPTANAAESILQFVHMVRQQATKSKGPMI IHCSAGV  
GRTGTFIALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQTEEYIFIHQCVQLMWMKKK  
QQFCISDVIYENVSKS

>sp|P23471|PTPRZ\_HUMAN Receptor-type tyrosine-protein phosphatase zeta OS=Homo sapiens  
GN=PTPRZ1 PE=1 SV=4

MRILKRFLACIQLLCVCRLDWANGYYRQQRKLVEEIGWSYTGALNQKNWGKKYPTCNSPK  
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FKASKITFHWGKCNMSSDGSEHSLEGQKFPLEMQIYCFDADRFSSFEAVKGKGLRALS  
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TDTVDWIVFKD TVSISESQLAVFCEVLTMQQSGYVMLMDYLQNNFREQQYKFSRQVFSSY  
TGKEEIHAEVCSSEPENVQADPENYTSLLVTWERPRVVYDTMIEKFAVLYQQLDGEDQTK  
HEFLT DGYQDLGAILNLLPNMSYVLQIVAICTNGLYGKYSDDLIVDMPTDNP ELDLFPE  
LIGTEEI IEEEEEGKDIEEGAIVNPGRDSATNQIRKKEPQISTTTHYNRIGTKYNEAKTN

RSPTRGSEFGSGKDVNPNTSLNSTSQPVTKLATEKDISLTSQTVTELPPTHVEGTSASLND  
GSKTVLRSPHMLNSGTAESLNTVSI TEYEEESLLTSFKLDTGAEDSSGSSPATSAIPFIS  
ENISQGYIFSENPETITYDVLIPESARNASEDSTSSGSEESLKDPSMEGNVWFPSSTDI  
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PVSVAEFTYTTSVFGDDNKALSKSEI IYGNETELQIPSFNEMVYPSESTVMPNMYDNVNK  
LNASLQETSVSISSTKGMFPGSLAHTTTKVF DHEISQVPENNF SVQPTHVTSQASGDTSL  
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AVSPDPILVETPKVDKISSTMLHLIVSNSASSENMLHSTSVPVFDVSPTSHMHASLQGL  
TISYASEKYEPVLLKSESSHQVPSLYSNDEL FQTANLEINQAHPKGRHV FATPVLSID  
EPLNTLINKLIHSDEILTSTKSSVTGKVFAGIPTVASDTFVSTDHSVPIGNGHVAITAVS  
PHRDGSVTSTKLLFPSKATSEL SHSAKSDAGLVGGGEDGDTDDDGD DDDDDDRGSDGLSIH  
KCMSCSSYRESQEKVMNDS DTHENSLMDQNNPISYSLSENSEEDNRVTSVSSDSQTGMDR  
SPGKSPSANGLSQKHNDGKEENDIQTGSALLPLSPESKAWAVLTSDEESGSGQGTSDSLN  
ENETSTDFS FADTNEKDADGILAAGDSEITPGFPQSPTSSVTSENSEVFHVSEAEASNSS  
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VISTPPTPIFPI SDDVGAIPKHFPHVADLHASSGFTEEFETLKEFYQEVQSCTVDLGI  
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QGPKLSTAEDFWRM IWEHNVEVIMITNLVEKGRRKCDQYWPADGSE EYGNFLVTQKSVQ  
VLAYYTVRNFTL RNTKIKKGSQKGRPSGRVVTQYHYTQWPD MGVP EYSLPVLTFVRKAAY  
AKRHAVGPVVVHC SAGVGRTGTIYIVLDSMLQQIQHEGTVNIFGFLKHIRSQRNYLVQTEE  
QYVFIHDTLVEA ILSKETEVLD SHIHAYVNALLIPGPAGKTKLEKQFQLLSQSNIQQSDY  
SAALKQCNREKNRTSSIIPVERSRVGISSLSGEGTDYINASYIMGYYSNEFIITQHPLL  
HTIKDFWRMIWDHNAQLVVMIPDGQNMAEDEFVYWP NKDEPINCESFKVTLMAEEHKCLS  
NEEKLI IQDFILEATQDDYVLEVRHFQCPKWPNPDSPI SKTFELISVIKEEAANRDGPMI  
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SLVSTRQEENPSTSLDSNGAALPDGNIAESLES LV

>sp|Q03393|PTPS\_HUMAN 6-pyruvoyl tetrahydrobiopterin synthase OS=Homo sapiens GN=PTS PE=1 SV=1

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GEIDPATGMVMNLADLK YMEEAIMQPLDHKNLDM DVPYFADVSTTEN VAVYIWDNLQK  
VLPVGVLYKVKVYETDNNIVVYKGE

>sp|Q6GMV3|PTRD1\_HUMAN Putative peptidyl-tRNA hydrolase PTRHD1 OS=Homo sapiens GN=PTRHD1 PE=1 SV=1

MHRGVGPAFRVVRKMAASGAEPQVLVQYLVLRKDLSQAPFSWPAGALVAQACHAATAALH  
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LRPYPKEEVGQYLKKFRLFK

>sp|Q6NZI2|PTRF\_HUMAN Polymerase I and transcript release factor OS=Homo sapiens GN=PTRF PE=1 SV=1

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KEGEELGEGEPEDAAALELSSDEAVEVEEVIEESRAERIKRSGLRVDDFKAFSKEK  
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FTPDHVYARSKTAVYKVPFTFHVKKIREGQVEVLKATEMVEVGADDDEGGAERGEAGD  
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>sp|Q96A99|PTX4\_HUMAN Pentraxin-4 OS=Homo sapiens GN=PTX4 PE=2 SV=2

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NIASNYNVSYNDVFRSLAEESQAVAVNRSQASVQGELAQLKAWVRKLQRRGRKVD  
RLRALDLTLGERSQQRARERKAHKAQRDALQDSLARLEGLVHSQGARLAALEGRLPVAHP  
GTAALGPALVPTPTQPEELGPTSLKLQRDRQELRAASEHRGPPQDSSAPLQGRREPPASG  
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SWVRTASGRLGTLTSYATEDNDNKLVLHGRDSSLPGSIHFVIGDPAFRELPLQLLLDGQW  
HHICVIWTSTQGRYLWHVDRRLVATGSRFREGYEIPPGGSLVLGQEQDSVGGGDFSSEAF  
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>sp|O15067|PUR4\_HUMAN Phosphoribosylformylglycinamide synthase OS=Homo sapiens GN=PFAS  
PE=1 SV=4

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TTRRYRLSFAHPPSAEVEAIALATLHDMTEQHFPHPIQSFSPESMPEPLNGPINILGEG  
RLALEKANQELGLALDSWDLDFYTKRFQELQRNPSTVEAFDLAQSNSESRHWFQGLH  
VDGQKLVSLSFESIMSTQESSNPNVLKFCDNSSAIQKKEVRFLRPEDPTRPSRFQQQQG  
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RFQLGDPTLNALEIWGAEYQESNALLRSPNRDFLTHVSARERCPACFVGTITGDRRIVL  
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LADACEAMVAVMAALGVAVDGGKDSLMAARVGTETVRAPGSLVISAYAVCPDITATVTP  
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DRLLCSGHDVSDGGLVTCLLEMAFAGNCGLQVDVPVPRVDVLSVLFEEPLVLEVQEPD  
LAQVLKRYRDAGLHCLLELGTGEAGPHAMVRVSVNGAVVLEEPVGELRALWEETSFQLDR  
LQAEPRCVAEEERGLRERMGPSYCLPPTFPKASVPREPGGPSRVAILREEGSNGDREMA  
DAFHLAGFEVWDVTMQDLCSGAIGLDTFRGVAFVGGFSYADVLGSAKWAAAVTFHPRAG  
AELRRFRKRPDFTSLGVCNGCQLLALLGWVGDPNEDAAEMGPDSQPARPGLLLRHNLSG  
RYESRWASVRVGGPALMLRGMGAVLPVWSAHGEGYVAFSSPELQAQIEARGLAPLHWA  
DDGNPTEQYPLNPNGSPGGVAGICSCDGRHLAVMPHPERAVRPQWAWRPPPFDTLTTS  
PWLQLFINARNWTLEGSC

>sp|Q9UJV8|PURG\_HUMAN Purine-rich element-binding protein gamma OS=Homo sapiens GN=PURG  
PE=2 SV=1

MERARRRGGGGGRGRGGKNGGSGLSKSRLYPQAQHSYHYAASATPNQAGGAAEIQEL  
ASKRVDIQKKRFYLDVKQSSRGRFLKIAEVWIGRGRQDNIRKSKLTLSSLVAAELKDCLG

DFIEHYAHLGLKGHRQEHGHSKEQGSRRRQKHSAPSPVSVGSEEHPSVLKTDYIERDN  
RKYYLDLKENQRGRFLRIRQTMMRGTGMIGYFGHSLGQEQTIVLPAQGMIEFRDALVQLI  
EDYEGEDIEERRGGDDPLELPEGTSFRVDNKRIFYFDVGSNKYGIFLKVSEVRPPYRNTI  
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>sp|Q6NUJ5|PWP2B\_HUMAN PWWP domain-containing protein 2B OS=Homo sapiens GN=PWWP2B PE=1  
SV=3

MEPRAGCRLPVRVEQVVNGALVVTVSCGERSFAGILLDCTKKSGLFGLPPLAPLPQVDES  
PVNDSHGRAPEEGDAEVMQLGSSSPPPARGVQPPETTRPEPPPPLVPPLPAGSLPPYPY  
FEGAPFPHPLWL RDTYKLWVPQPPPTIKRTRRRRLSRNRDPGRLILSTIRLRPRQVLC  
CKSTLSPPEASPGPPAAPRARRRLGSGPDRELKPEEPENGEPTAAATARRSKRERREED  
RAPAEQVPRSPVIKISYSTPQGKGEVVKIPSRVHGSLEPFRPQQAPQDDGSQDPEVLDRE  
SRDRPSCAPSASIPKLKLTRPVAGADLPPPKIRLKPRLGDSEHEPVYRAELVGELNGY  
LRDSSPAPCADGPAGGLADLSSGSSGEDDDFKSCPQGPQGREGLAFLVSCPEGRADCASE  
SACSSDSLDEARSSGSEGT PADTGDLSPGHGASAPSVSREARQTVPPLTVRLHTQSVSEC  
ITEDGRTVAVGDIVWGKIHGFPWWPARVLDISLGQKEDGEPSWREAKVSWFGSPTTSFLS  
ISKLSPFSEFFKLRFNRKKKGMYRKAITAANAARHVAPEIRELLTQFET

>sp|Q96HA9|PX11C\_HUMAN Peroxisomal membrane protein 11C OS=Homo sapiens GN=PEX11G PE=1  
SV=1

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TILRLFDDLAMFVYTKQYGLGAQEEDAFVRCVSVLGNLADQLYYPCEHVAWAADARVLHV  
DSSRWWTLS TTLWALSLLLGVARSLWMLLKLRLQRLSPTAPFTSPLPRGKRAMEAQM QS  
EALSLLSNLADLANAVHWLPRGVLWAGRFPPWLVLGMTISSILSMYQAARAGGQAEATT  
P

>sp|Q92626|PXD\_N\_HUMAN Peroxidasin homolog OS=Homo sapiens GN=PXD\_N PE=1 SV=2

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APQTSILDRLFNRIREIQPGA FRRLRNLTLLNNNQIKRIPSGAFEDLENLKYLYLYKN  
EIQSIDRQAFKGLASLEQLYLFHNQIETLDPDSFQHLPKLERLFLHNNRITHLVPGT FNH  
LESMKRLRLDSNTLHCDCEILWLADLLKTYAESGNAQAAAICEYPRRIQGRSVATITPEE  
LNCERPRITSEPQDADVTSGNTVYFTCRAEGNPKPEIIWLRNNNELSMKTD SRLNLDDG  
TLMIQNTQETDQGIYQCMAKNVAGEVKTQEVTLRYFGSPARPTFVIQPQNT EVLVGESVT  
LECSATGHPPPRISWTRGDRTPLVDPRVNITPSGGLYIQNVVQGD SGEYACSATNNIDS  
VHATAFIIIVQALPQFTVTPQDRVIEGQTVDFQCEAKGNPPPVIAWTKGGSQLSVDRRHL  
VLSSGTLRISGVALHDQGGYECQAVNIIGSQKVVAHLTVQPRVTPVFASIPSDTTVEVGA  
NVQLPCSSQGEPEAITWNKDGQVQTESGKFHISPEGFLTINDVGPADAGRYECVARNTI  
GSASVMVLSVNVDPVSRNGDPFVATSIVEAIATVDRAINSTRTHLFDSRPRSPNDLLAL  
FRYPRDPYTVEQARAGEIFERTLQLIQEHVQHGLMVDLNGTSYHYNDLVSPQYLNLIANL  
SGCTAHRRVNNSDCMCFHQKYRTHDGT CNLQHPMWGASLTAFERLLKS VYENGFNTPRG  
INPHRLYNGHALPMPRLVSTTLIGTETVTPDEQFTHMLMQWGQFLDHDLDSTVVALS QAR  
FSDGQHCSNVCSNDPPCF SVMIPPND SRARSGARCMFFVRSSPVC GSGMTSLLMNSVYPR  
EQINQLTSYIDASNVYGSTEHEARSIRD LASHRGLLRQGIVQRSGKPLL PFATGPPT ECM  
RDENESPIPCFLAGDHRANEQLGLTSMHTLWFREHNRIATELLKLNPHWDGDTIYYETRK  
IVGAELQHITYQHWLPKILGEVGMRTLGEYHGYDPGINAGIFNAFATAAFRFGHTLVNPL  
LYRLDENFQPIAQDHLPLHKAFFSPFRIVNEG GIDPLL RGLFGVAGKMRVPSQLLNT ELT  
ERLFSMAHTVALDLAAINIQRGRDHGIPPYHDYRVYCNLSAAHTFEDLKNEIKNPEIREK



LKRLYGSTLNIDLPALVVEDLVPGSRLGPTLMCLLSTQFKRLRDGDR LWYENPGVFSPA  
QLTQIKQTSLARILCDNADNITRVQSDVFRVAEFP HGYGSCDEIPRVDLRVWQCCEDCR  
TRGQFNAFSYHFRGRSLEFSYQEDKPTKKTRPRKIPSVGRQGEHLSNSTSAFSTRSDAS  
GTNDFREFVLEMQKITIDLRTQIKKLESRLSTTECV DAGGESHANNTKWKKDACTICECK  
DGQVTCFVEACPPATCAVPVNIPGACCPVCLQKRAEEKP

>sp|Q15434|RBMS2\_HUMAN RNA-binding motif, single-stranded-interacting protein 2 OS=Homo sapiens GN=RBMS2 PE=1 SV=1

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RGLQPGETTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFVDFDSPSAAQKAVTALKAS  
GVQAQMAKQQEQDPTNLYISNLPLSMDEQELEGMLKPFQGVISTRILRDTSGTSRGVGFA  
RMESTEKCEAIITHFNGKYIKTPPGVPAPSDPLLCKFADGGPKKRQNGKQFVQNGRAWPR  
NADMGVMALTYDPTTALQNGFYAPYNTIPNRMLAQSA LSPYLSSPVSSYQRTQTSP LQ  
VPNP SWMHHSYLMQPSGSVLTPGMDHPISLQPASMMGPLTQQLGHL SLSSTGT YMP TAA  
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>sp|Q9H2T7|RBP17\_HUMAN Ran-binding protein 17 OS=Homo sapiens GN=RANBP17 PE=2 SV=1

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LLAATCLSKLVSRVSPLPVEQRMDIRNYILNYVASQPKLAPFVIQALIQVIAKITKLGWF  
EVQKQDFVFREIIADVKKFLQGTVEHCIIGVILSEL TQEMNLVDYSRPSAKHRKIATSF  
RDTSLKDV LVLACSLLEKVFAPKPLNLQDQCQQLVMQVLKLVNCLNFDFIGSSADESAD  
DLCTVQIPTTWRTIFLEPETLDLFFNLYHSLPPLLSQLALSCLVQFASTRRSLFN SPERA  
KYLGNLIKGVKRILENPQGLSDPGNYHEFCRFLARLKTNYQLGELVMVKEYPEVIRLIAN  
FTITSLQHWEFAPNSVHYLLTLWQRMVASVPFVKSTEPHLLDTYAPEITKAFITSRLDSV  
AIVVRDHLDDPLDDTATVFQQLQLCTVSRCEYEKTCALLVQLFDQNAQNYQKLLHPYSG  
VTVDITIQEGR LAWLVYLVGT VVGRLTYTSTDEHDAMDGELSCR VFQLISLMDTGLPRC  
CNEKIELAILWFLDQFRKTYVGDQLQRTSKVYARMSEVLGITDDNHVLETFMTKIVTNLK  
YWGRYEPVISRTLQFLNDLSVGYILLKKLVKIDAVKFMLKNHTSEHF PFLGISDNHSLSD  
FRCRTTFYTALTRLLMVDLGEDEDEFENFMLPLTVAFETVLQIFNNNFQEDVKRMLIGL  
ARDLRGIAFALNTKTSYTM LFDW MYPTYLPLLQNAVERWYGEPTCTTPILKLMAELMQNR  
SQRLNFDVSSPNGILLFREASKMVCTYGNQILSLGSLSKDQIYPMKLKGISICYSALKSA  
LCGNYVSFGVFKLYGDNHFDNVLQAFVKMLLSVSHSDLLQYRKLSQSYYP LLECLTQDHM  
SFIINLEPPVLMYVLT SISEGLTTLDTV VSSCCTSLDYIVTYLFKHIAKEGKKPLRCRE  
ATQAGQRLLHFMQNPDLV LQMM SVLMNTIVFEDCRNQWSVRPLLGLILLNEKYFSELR  
ASLINSQPLPKQEVLAQCFRNLMEGVEQNLSVKNRDRFTQNL SVFRRDVAEALRSDGNTE  
PCSLDMMS

>sp|Q5TC82|RC3H1\_HUMAN Roquin-1 OS=Homo sapiens GN=RC3H1 PE=1 SV=1

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IELLPVNSALLQLVGAQVPEQQPITLCSGVEDTKHYEEAKKCVEELALYLKPLSSARGVG  
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SNLWAAVRARGCQFLGPAMQEEALKLVLLALEDGSALS RKVLVLFVVQRLEPRFPQASKT  
SIGHVVQLLYRASCFKVTKRDESSLMQLKEEFRTYEALRREHDSQIVQIAMEAGLR IAP  
DQWSSLLYGDQSHKSHMQSIIDKLQTPASFAQSVQELTIALQRTGDPANLNR LRP HLELL  
ANIDPSPDAPPPTWEQLENGLVAVRTVVHGLVDYIQNH SKKGADQQQPPQH SKYKTYMCR  
DMKQRGGCPRGASCTFAHSQEELEKFRKMNKRLVPRRPLSASLGQLNEVGLPSAA ILPDE  
GAVDLP SRKPPALPNGIVSTGNTVTQLIPRGTDPSYDSSLKPGKIDHLSSSAPGSPDDL

ESVPKISALPVNPHSIPPRGPADLPMPVTKPLQMVPRGSQLYPAQQTDTVYYQDPRGAA  
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QYPIIYP SHYDGRRVYPAPSYTREEIFRESPIPIEIPPAVPSYVPESRERYQQIESYYP  
VAPHPTQIRPSYLREPPYSRLPPPPQPHPSLDELHRRRKEIMAELEERKVISPPPFAPSP  
TLPPTFHPEEFLDEDLKVAGKYKNDYSQYSPWSCDTIGSYIGTKDAKPKDVVAAGSVEM  
MNVESKGMRDQRLDLQRRAAETSDDDLIPFGDRPTVSRFGAISRTSKTIYQGAGPMQAMA  
PQGAPTKSINISDYPYGTGGWGASPYSPHQNIPSPHGFSEERERISMSEVASHGKPLPS  
AEREQLRLELQQLNHQISQQTQLRGLEAVSNRLVLQREANTLAGQSQQPPPPPPKWPAMI  
SSEQLSLELHQVEREIGKRTRELSMENQCSLDMKSKLNTSKQAENGQPEPQNKVPAEDLT  
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>sp|P18754|RCC1\_HUMAN Regulator of chromosome condensation OS=Homo sapiens GN=RCC1 PE=1 SV=1

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ALVSIPEDEVVQAEAGGMHTVCLSKSGQVYSFGCNDEGALGRDTSVEGSEMVPGKVELQEK  
VVQVSAGDSHTAALTDDGRVFLWGSFRDNNGVIGLLEPMKSMVPVQVQLDVPVVKVASG  
NDHLVMLTADGDLYTLGCGEQQLGRVPELFANRGGRGGLERLLVPKCVMLKSRGSRGHV  
RFQDAFCGAYFTFAISHEGHVYGFGLSNYHQLGTPGTESCFIPQNLTSFKNSTKSWVGFS  
GGQHHTVCMDESGKAYSLGRAEYGRGLGEGAEKSIPTLISRLPAVSSVACGASVGYAV  
TKDGRVFAWGMGTNYQLGTGQDEDAWSPVEMMGKQLENRVVLSVSSGGQHTVLLVKDEQ  
S

>sp|Q7Z3Z2|RD3\_HUMAN Protein RD3 OS=Homo sapiens GN=RD3 PE=1 SV=1

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DYSWLASTPRSTYDLSPIERLQLEDVCVKIHPSYCGPAILRFRQLLAEQEPEVQEVSQ  
LFRSVLQEVLERMKQEEEAHKLTRQWSLRPRGSLATFKTRARISPFASDIRTISEDVER  
DTPPP LRSWSMPEFRAPKAD

>sp|Q9H6H4|REEP4\_HUMAN Receptor expression-enhancing protein 4 OS=Homo sapiens GN=REEP4 PE=1 SV=1

MVSWMICRLVVLVFGMLCPAYASYKAVKTKNIREYVRWMMYWIVFALFMAAEIVTDIFIS  
WFPFYIEIKMAFVLWLLSPYTKGASLLYRKVFHPSLSRHEKEIDAYIVQAKERSYETVLS  
FGKRGLNIAASAAVQAATKSQALAGRLRSFSMQDLRSISDAPAPAYHDPLYLEDQVSHR  
RPPIGYRAGGLQSDTEDECWSDTEAVPRAPARPREKPLIRSQSLRVVKKRPPVREGTSR  
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>sp|Q9HAU5|RENT2\_HUMAN Regulator of nonsense transcripts 2 OS=Homo sapiens GN=UPF2 PE=1 SV=1

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MKEKEESIQLHQEAWERHHLRKLRSKNQNPDSRPEENFFSRLDSSLKNTAFVKKLKT  
ITEQQRDSLSDHFNGLNLSKYIAEAVASIVEAKLKISDVNCAVHLCSLFHQRYADFAPSL  
LQVWKKHFEARKEEKTNPITKLRTDLRFIAELTIVGIFTDKEGLSLIYEQLKNIINADRE  
SHTHVSVVISFCRHCGDDIAGLVPRKVKSAAEKFNLSFPPSEIISPEKQPPFQNLKEYF  
TSLTKHLKRDHRELQNTERRRILHSGGELSEDHRKQYEEFAMSYQKLLANSQSLADLL  
DENMPDLPQDKPTPEEHGPGIDIFTPGKPGEYDLEGGIWEDEDARNFYENLIDLKAFVPA  
ILFKDNEKSCQNKESNKDDTKEAKESKENKEVSSPDDELELENLEINDDTLEEGGDEA  
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RKKLVRALFIVPRQRDLLPFYARLVATLHPCMSDVAEDLCSMLRGDFRFHVRKKDQINI  
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HLRTSVLLEQMMRKKQAMHLDARYVTMVENAYYYCNPPPAEKT VKKKRPLQEYVRKLLY  
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VG IHVVDGVLEDIRLGMEVNQPKFNQRRISSAKFLGELYNYRMVESAVIFRTLVSFTSFG  
VNPDGSPSSLDPPEHLFRIRLVCTILDTCGQYFDRGSSSKRKLD CFLVYFQRYVWWKKSLE  
VWTKDHPFPIDIDYMSD TLELLRPKIKLCSLEESIRQVQDLEREFLIKLG LVNDKDSK  
DSMTEGENLEEDEEEEEGAETEEQSGNESEVNEPEEEEGSDNDDDEGEEEEENTDYLT  
DSNKENETDEENTEVMIKGGGLKHVPCVEDEDFIQALDKMMLLENLQQRSGESVKVHQLDV  
AIPLHLKSQLRKGPPLGGGEGEAESADTMPFVMLTRKGNKQKFILNVPMSQLAANHWN  
QQQAEQEERM RKKLTDINERQE QEDYQEMLQSLAQRPA PANTNRERRPRYQHPKGAPN  
ADLIFKTGRRR

>sp|Q13127|REST\_HUMAN RE1-silencing transcription factor OS=Homo sapiens GN=REST PE=1  
SV=3

MATQVMGQSSGGGLFTSSGNIGMALPNDMYDLHDL SKAELAAPQLIMLANVALTGEVNG  
SCCDYLVGEERQMAELMPVGDNNFSDSEEGGLEESADIKGEPHGLN MELRSLELSVVE  
PQPVEASGAPDIYSSNKDLPPETPGAEDKGKSSKTKPFRCKPCQYEAEESEEFVHHIRV  
HSAKKFFVEESA EKQAKARESGSSTAEGDFSKGPIRCDRCGYNTNRYDHYTAHLKHHTR  
AGDNERVYKCI ICTYTTVSEYHWRKHLRNHFPRKVYTCGKCNYFS DRKNYVQHVRTHTG  
ERP YKCELCPYSSSQKTHLTRHMRTHSGEKPFKCDQCSYVASNQHEVTRHARQVHNGPKP  
LNCPHCDYKTADRSNFKKHVELHVNPRQFNCVCDYAASKKCNLQYHFKSKHPTCPNKT  
M DVSKVKLKKTKKREADLPDNITNEKTEIEQTKIKGDVAGKKNEKSVKAEKRDVSKEKKPS  
NNVSVIQVTTTRKSVTEVKEMDVHTGSNSEKFSKTKKSKRKLEVD SHSLHGPNDEESS  
TKKKKKVESKSKNNSQEVPGDSKVEENKKQNTCMKKSTKKKTLKNKSSKSSKPPQKEP  
VEKGS AQMDPPQMGPA TEAVQKGPVQVEPPPPMEHAQMEGAQIRPAPDEPVQMEVVQEG  
PAQKELLPPVEPAQMVGAQIVLAHMELPPPMETAQTEVAQMGPA MEPAQMEVAQVESAP  
MQVVQKEPVQME LSPPMEVVQKEPVQIELSPPMEVVQKEPVKIELSPPIEVVQKEPVQME  
LSPPMGVVQKEPAQREPPPPREPLHMEPI SKKPLRKDKKEKSNMQSERARKEQV LIEV  
GLVPVKDSWLLKESVSTEDLSPPSPPLPKENLREEASGDQKLLNTGEGNKEAPLQKVGAE  
EAD ESLPGLAANIN ESTHISSSGQNLNTPEGETLNGKHQTDSIVCEMKMDTDQNTRENLT  
GINSTVEEPVSPMLPPSAVEEREAVSKTALASPPATMAANESQEIDEDEGIHSHEGSDLS  
DNMSEGSDDSGLHGARPVPQESSRKNAKEALAVKAAKGDFVCIFCDRSFRKGKDYSKHLN  
RHLVNVYYLEEAQGGQE

>sp|P35250|RFC2\_HUMAN Replication factor C subunit 2 OS=Homo sapiens GN=RFC2 PE=1 SV=3

MEVEAVCGGAGEVEAQDSDPAPAFSKAPGSAGHYELPWVEKYRPVKLNEIVGNEDTVSRL  
EVFAREGNVPNII IAGPPGTGKTTSILCLARALLGPALKDAMLELNASNDRGIDVVRNKI  
KMFAQQKVTL PKGRHKII ILDEADSMTDGAQQALRRTMEIYSKTT RFALACNASDKIIEP  
IQSRC AVLRYTKLTDAQILTRLMNVIEKERV PYTDDGLEAII FTAAQGDMRQALNNLQSTF  
SGFGFINS ENVFKVCDEPHLLVKEMIQHCVNANIDEAYKILAH LWLGYSPEDIIGNIF  
RVCKTFQMAEYLKLEFIKEIGYTHMKIAEGVNSLLQ MAGLLARLCQKTMAPVAS

>sp|Q7L804|RFIP2\_HUMAN Rab11 family-interacting protein 2 OS=Homo sapiens GN=RAB11FIP2  
PE=1 SV=1

MMLEQAQKWFPTHVQVTVLQAKDLKPKGKSGTNDTYTIIQLGKEKYSTSVAEKTLEPVW  
KEEASFELPGLLIQGSPEKYILFLIVMHRSLVGLDKFLGQVAINLNDIFEDKQRRKTEWF

RLESKQGKRIKNRGEIKVNIQFMRNNMTASMFDL SMKDKTRSPFAKLKDKMKGRKNDGTF  
SDTSSAIIPSTHMPDANSEFSSGEIQMKS KPKPFLLGPQRLSSAHMSDL SGSHMSSEK  
LKAGTIGQTHLLGHQLDSFGTVPESSGLKSPHRRTLSFDTSKMNPDSIVDEGELCFGRQ  
NDPFTNVTASLPQKFATLPRKKNPFEESSETWDSSMNLFSKPIEIRKENKREKREKVSF  
ERVGTGKDSRRSDKLNNGGSDSPCDLKSPNAFSENQDYFDYESTNPFTAKFRASNIMPS  
SSFHMSPTS NEDLRKIPDSNPFDATA GYRSLTYEEVLQELVKHKELLRRKDTHIRELEDY  
IDNLLVRVMEETPSILRVPIEPSRKAGKFSNS

>sp|Q86YS3|RFIP4\_HUMAN Rab11 family-interacting protein 4 OS=Homo sapiens GN=RAB11FIP4  
PE=1 SV=1

MAGGAGWSGAPAAALLRSVRRLREVFEVCGRDPDGFLRVERVAALGLRFGQGEEVEKLVKY  
LDPNDLGRINFKDFCRGVFAMKGCEELLKDVLSVESAGTLPCAPEIPDCVEQGSEVTGPT  
FADGELIPREPGFFPEDEEEAMTLAPPEGPQELYTDSPESTQSLEGSVGSPAEDGGLG  
GLFLPEDKSLVHTPSMTTSDLSTHSTTSLISNEEQFEDYGEGDDVDCAPSSPCPDETRT  
NVYSDLGSSVSSSAGQTPRKMRHVYNSELLDVYCSQCKKINLLNDLEARKNLKANSPN  
RKISSTAFGRQLMHSSNFSSNGSTEDLFRDSIDSCDNDITEKVSFLEKKVTELENDST  
NGDLKSKLKQENTQLVHRVHELEEMVKDQETTAEQALEEEARRHREAYGLEREKATEVE  
LLNARVQQLEENTEELRTTVTRLKSQTEKLDEERQRMSDRLEDTSRLKDEMDLYKRMD  
KLQRNRLFQKEREATQELIEDLRKELEHLQMYKDCERPGRGRSASSGLGEFNARAREV  
ELEHEVKRLKQENYKLRDQNDLNGQILSLSLYEAKNLFAAQTKAQS LAEIDTASRDEL  
MEALKEQEEINFRLRQYMDKIILAILDHNPSILEIKH

>sp|075677|RFPL1\_HUMAN Ret finger protein-like 1 OS=Homo sapiens GN=RFPL1 PE=2 SV=2

MKRLSLVTTNRLSPHGNFLPLCTFPLAVDMAALFQEASSCPVCS DYLEKPM SLECGCAVC  
FKCINSLQKEPHGEDLLCCCSMV SQKNKIRPSWQLERLASHIKELEPKLKKILQMNPRM  
RKFQVDMTLDADTANNFLLISDDLRSVRSGCITQNRQDLAERFDVSICILGSPRFTCGRH  
YWEVDVGTSTEWDLGVCRESVHRKGRIHLTTERGFWTVSLRDGSRLSASTVPLTFLFVDR  
KLQRVGIFLDMGMQNVSFDDAEGGSHVYTFRSVSAEEPLHLFFAPSPPPNGDKSVLSICP  
VINPGTTDAPVHPGEAK

>sp|A6NLU0|RFPLA\_HUMAN Ret finger protein-like 4A OS=Homo sapiens GN=RFPL4A PE=1 SV=3

MAEHFKQIIRCPVCLKDLEEAVQLKCGYACCLQCLNSLQKEPDGEGLLCRFC SVVSQKDD  
IKPKYKL RALVSI I KELEPKLKS VLT MNPRMRKFQVDMTFD VDTANNYLI I SEDLRSFRS  
GDLSQNRKEQAERFD TALCVLGT PRFTSGRH YWEVDVGT SQVWDVGVC KESVNRQ GKIVL  
SSEHGFLT VGC REGKVF AASTVPM TPLWVSPQLHRVGIFLDVGMRSIAFY NVSDGCHIYT  
FIEIPVCEPWRPFFAHKRG SQDDQSILSICSVINPSAASAPVSSEGK

>sp|Q6ZWI9|RFPLB\_HUMAN Ret finger protein-like 4B OS=Homo sapiens GN=RFPL4B PE=2 SV=2

MAKRLQAELSCPVLDDFFSCSISLSCTHVFCFDCIQRYILENHDFRAMCPLCRDVVKVPA  
LEEWQVSVLTLMTKQHNSRLEQSLHVREELRHFREDVTLDAATASSLLVFSNDLRS AQCK  
KIHHDLT KD PRLACVLGTPCFSSGQHYWEVEVEGVKSWSLGVCKEPADRKSNDLFP EHG  
WISMKAGAIHANTHLERIPASPRLRVGIFLDADLEEIQFFDV DNNVLIYTHDGFFSLEL  
LCPFFCLELLGEGESGNVLTICP

>sp|Q6ZV50|RFX8\_HUMAN DNA-binding protein RFX8 OS=Homo sapiens GN=RFX8 PE=2 SV=2

MAEGVPASPSSGEGSRGPHSGVIQWLVDNFCICECSVPRCLMYEIIYVETCGQNTENQVN  
PATFGKLVRLVFPDLGTRRLGTRGSARYHYDGICIKSSFFYAQYCYLIGEKRYHSGDAI  
AFEKSTNYNSIIQEQATCEDHSPMKTD PVGSPLSEFRRC PFLEQEQAKKYSCNMMAFLAD  
EYCNYCRDILRNVEDLLTSFWKSLQQDTVMLMSLPDVCQLFKCYDVQLYKGIEDVLLHDF

LEDVSIQYLKSVQLFSKKFKLWLLNALEGPALLQISKLEVTLFVKRLRRKTYLSNMAK  
TMRMVLKSKRRVSVLKSDLQAIINQGTLATSKKALASDRSGADELENNPEMKCLRNLI  
LGTSTDLRVFLSCLSSHLQAFVFQTSRSKEEFTKLAASFQLRWNNLLTAVSKAMTLCHRD  
SFGSWHLFHLLEMIHILQSCLEEEEEEDMGTVKEMPLDDPTLGQPDQALFHSNLSS  
LSQACASPSMEPLGVMPHTMGQGRYPVGVSNMVLRLGLFVDTAMGNKLIQVLEDETTE  
SAVKLSLPMGQEALITLKDGGQFVIQISDVPQSSEDIYFRENNANV

>sp|Q33E94|RFX4\_HUMAN Transcription factor RFX4 OS=Homo sapiens GN=RFX4 PE=1 SV=2

MHCGLLEEDMDSTESWIERCLNESENKRYSSHTSLGNVSNDENEEKENNRASKPHSTPA  
TLQWLEENYEIAEGVCIPRSALYMHYLDCEKNDTQPVNAASFVKIIRQQFPQLTTRRLG  
TRGQSKYHYGGIAVKESSQYYDVMYSKGAAWVSETGKKEVSKQTVAYSPRSKLGTLPE  
FPNVKDLNLPASLPEEKVSTFIMYRTHCQRILDTVIRANFDEVQSFLHFWQGMPPHML  
PVLGSSTVVNIVGVCDISILYKAISGVLMPITVLQALPDSLTVIRKFAQLDEWLKVALHD  
LPENLRNIKFELSRFRSQILRRQTSNLHLCQASRTVIHSADITFQMLEDWNRVDLNSITK  
QTLYTMEDSRDEHRKLITQLYQEFDHLLQSPQIESYIEWLDTMVDRCVVKVAAKRQGS  
KKVAQQFLMWSCFGTRVIRDMTLHSAPSGFHLIHLMFDDYVLYLLESLHCQERANEL  
MRAMKGEGSTAEVREEIILTEAAAPTSPVPSFSPAKSATSVEVPPSPVSNPSPEYTG  
LSTTGAMQSYTWSLTYTDTAAGSPAENSQQQLPCMRNTHVPSSSVTHRIPVYPHREEHGY  
TGSYNYGSYGNQHPHPMQSQYPALPHDTAISGPLHYAPYHRSSAQYFNSPTSMEPCLM  
SSTPRLHPTPVTPRWPEVPSANTCYTSPSVHSARYGNSSDMYTPLTTRRNSEYEHMQHFP  
GFAYINGEASTGWAK

>sp|Q9H4X1|RGCC\_HUMAN Regulator of cell cycle RGCC OS=Homo sapiens GN=RGCC PE=1 SV=1

MKPAAQGSAAAAAALDSAAEDLSDALCEFDVLAADFASPFHERHFHYEEHLERM  
KRRSSASVSDSSGFSDESADSLYRNSFSFSDEKLNSPTDSTPALLSATVTPQAKLGDT  
KELEAFIADLDKTLASM

>sp|075783|RHBL1\_HUMAN Rhomboid-related protein 1 OS=Homo sapiens GN=RHBDL1 PE=2 SV=1

MGRVEDGGTTEELEDWDPGTSALPAPGIKQGPREQTGTGPLSQKWEPEPDAPSQPGPAL  
WSRGRARTQALAGGSSLQQLDPENTGFIGADTFTGLVHSHELPLDPAKLDMLVALAQSNE  
QGGVCYQELVDLISKRSSSFKRAIANGQRALPRDGPLDEPGLGVYKRFVRYVAYEILPC  
EVDRRWYFYRHRSCPPPVFMASVTLAQIIIVFLCYGARLNKWWLQTYHPEYMKSPVYHPG  
HRARAWRFLTYFMHVGLEQLGFNALLQLMIGVPLEMVHGLLRISLLYLAGVLAGSLTVS  
ITDMRAPVVGSGGVYALCSAHLANVVMNWAGMRCYPYKLLRMVLALVCMSSSEVGRAVWLR  
FSPPLPASGPQPSFMAHLAGAVVGVSMLTILRSYEERLRDQCGWWVLLAYGTFLFAV  
FWNVFAYDLLGAHPPPP

>sp|P58872|RHBL3\_HUMAN Rhomboid-related protein 3 OS=Homo sapiens GN=RHBDL3 PE=2 SV=1

MGEHPSPGPAVAACAEAEERIEELEPEAEERLPAAPEDHWKVLFDQFDPGNTGYISTGKFR  
SLLESHSSKLDPHKREVLALADSHADGQIGYQDFVSLMSNKRNSFRQAILQGNRRSS  
KALLEEKGLSLSQRLIRHVAYETLPREIDRWYYSYTCPPPWFMITVTLLVAFFLYN  
GVSLGQFVLQVTHPRYLKNSLVYHPQLRAQVWRYLTYIFMHAGIEHLGLNVVLQLLVGVP  
LEMVHGATRIGLVYVAGVAGSLAVSVADMTAPVVGSSGGVYALVSAHLANIVMNWSGMK  
CQFKLLRMAVALICSMFEGRAVWLRFHPSAYPPCPHPSFVAHLGGVAVGITLGVVLRN  
YEQLQDQSLWWIFVAMYTTFVLFVFWNIFAYTLLDLKLPPPP

>sp|Q8TEB9|RHBL4\_HUMAN Rhomboid-related protein 4 OS=Homo sapiens GN=RHBDL1 PE=1 SV=1

MQRRSRGINTGLILLSSQIFHVGINNIPPVTLATLALNIWFFLNPQKPLYSSCLSVEKCY  
QQKDWQRLLSPLHHADDWHLYFNMAFMLWKGINLERRLGSRWFAFVITAFSVLTGVVYL

LLQFAVAEFMDEPDFKRSCAVGFSGVLFALKVLNNHYCPGGFVNILGFPVPNRFACWVEL  
VAIHLFSPGTSFAGHLA GILVGLMYTQGPLKKIMEACAGGFSSSVGYPRQYYFNSSGSS  
GYQDYYPHGRPDHYEEAPRNYDITYTAGLSEEEQLERALQASLWDRGNTRNSPPYGFHLS  
PEEMRRQRLHRFDSQ

>sp|Q9BYZ6|RHBT2\_HUMAN Rho-related BTB domain-containing protein 2 OS=Homo sapiens  
GN=RHOBTB2 PE=2 SV=2

MDSDMDYERPNETIKCVVVGDNVAGKTRLICARACNATLTQYQLLATHVPTVWAIDQYR  
VCQEVLERSRDVDDVSLSRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLHHVKT  
MWYPEIKHFCPRAPVILVGCQLDLRYADLEAVNRARRPLARPIKPNEILPPEKGREVAKE  
LGIPYYETSVVAFQGIKDVFDNAIRAALISRRHLQFWKSHLRNVQRPLLQAPFLPPKPPP  
PIIVPDPSSSEECPAHLEDPLCADVILVLQERVRIFAHKIYLSTSSSKFYDLFLMDL  
SEGELGGPSEPGGTHPEDHQHSDQH HHHHHHHHGRDFLLRAASFVDCESVDEAGSGPA  
GLRASTDGILRGNGTGYLPGRGRVLSWSRAFVSIQEEMAEDPLTYKSRLMVVVKMDSS  
IQPGPFRAVLKYLTGELDENERDLMHIAHIAELLEVFDLRMMVANILNNEAFMNQEITK  
AFHVRRTNRVKECLAKGTFSVDTFILDDGTISAHKPLLISSCDWMAAMFGGPFVESSTRE  
VVFYPTSKSCMRVLEYLYTGMTSSPDLDDMKLIILANRLCLPHLVALTEQYTVTGLME  
ATQMMVDIDGDVLFLELAQFHCA YQLADWCLHHICTNYYNVC RKFP RDMKAMSPENQEY  
FEKHRWPPVWYLKEEDHYQRARKEREKEDYLHLKRQPKRRWLFWNSSPSSSSAASSSSP  
SSSSAVV

>sp|P18577|RHCE\_HUMAN Blood group Rh(CE) polypeptide OS=Homo sapiens GN=RHCE PE=1 SV=2

MSSKYPRSVRRCLPLWALTLEAALILLFYFFTHYDASLEDQKGLVAS YQVGQDLTVMAAL  
GLGFLT SNFRRHSWSSVAFNLFMLALGVQWAILLDGFLSQFP PGKVITLFSIRLATMSA  
MSVLISAGAVLGKVNLAQLVVMVLEVTALGTLRMVISNIFNTDYH MNLRHFYVFAAYFG  
LTVAWCLPKPLPGTEDNDQRATIPSLSAMLGALFLWMFWPSVNSPLLRSPIQRKNAMFN  
TYVALAVSVVTAISGSSLAHPQRKISMTYVHSAVLAGGVAVGT SCHLIPSPWLAMVLGLV  
AGLISIGGAKCLPVCCNRVLGIHHISVMHSIFSLLGLLGEITYIVLLVLHTVWNGNMIG  
FQVLLSIGELSLAIVIALTSGLLTG LLLNLKIWKAPHVAKYFDDQVFWKPHLAVGF

>sp|POC7M4|RHF2B\_HUMAN Rhox homeobox family member 2B OS=Homo sapiens GN=RHOF2B PE=2  
SV=1

MEPPDQCSQYMTSLLSPAVDDEKELQDMNAMVLSLTEEVKEEEEDAQPEPEQGTAAGEKL  
KSAGAAQGGEEKDGGGEEKDGGGAGVPGLWEGNLEGTSGSDGNVEDSDQSEKEPGQYYSR  
PQGA VGGLPEGNAQQPNVHAFTPLQLQELECIFQREQFPSEFLRRRLARSMNVTELAVQI  
WFENRRAKWRRHQRALMARNMLPFMAVGQPMVTAAEAITAPLFISGMRDDYFWDHSHSS  
SLCFPMPPFPFPPSLPLPLMLLPPMPAGAEFGPFVIVPSFTFPNV

>sp|P98171|RHG04\_HUMAN Rho GTPase-activating protein 4 OS=Homo sapiens GN=ARHGAP4 PE=1  
SV=2

MAAHGKLRRERGLQAEYETQVKEMRWQLSEQLRCLELQGELRRELLQELAEFMRRRAEVE  
LEYSRGGLEKLAERFSSRGRLGSSREHQSF RKEPSLLSPLHCWAVLLQHTRQQSRESAAL  
SEVLAGPLAQRLSHIAEDVGRLVKKS RDLEQQLQDELLEVVS ELQTAKKTYQAYHMESVN  
AEAKLREAERQEEKRAGRSVPTTTAGATEAGPLRKSSSLKGGRLVEKRQAKFMEHKLKCT  
KARNEYLLSLASVNAAVSNYYLHDVLDLMDCCDTGFHLALGQVLRSYTAAESRTQASQVQ  
GLGSLEEAVEALDPPGDKAKVLEVHATVFCPLRFDYHPHDGDEVAEICVEMELRDEILP  
RAQNIQSRLDRTIETEEVNKTLKATLQALLEVVASDDGDVLD SFQTSPTESLKTSSD  
PGSRQAGRRRGQQQETETFYLT KLQEYLSGRSILAKLQAKHEKLQEALQRGDKEEQEVS

TQYTQRKFQKSRQPRSSQYNQRLFGGDMKFIQSSGQPVPLVVEESCIRFINLNLQHEG  
IFRVSGAQLRVSEIRDAFERGEDPLVEGCTAHDLDVAGVLKLYFRSLEPPLFPPDLFGE  
LLASSELEATAERVEHVSRLRWLPAPVLVVLRYLFTFLNHLAQYSDENMMDPYNLAVCF  
GPTLLPVPAGQDPAVALQGRVNQLVQTLIVQPDRVFPPLTSLPGPVYEKCMAPPSASCLGD  
AQLES LGADNEPELEAEMPAQEDDLEGVVEAVACFAYTGRTAQELSFRRGDVLR LHERAS  
SDWWRG EHNMGMRGLIPH KYITLPAGTEKQVVGAGLQTAGESGSSPEGLLASELVHRPEPC  
TSPEAMGPSGHRRRLCLVPASPEQHVEVDKAVANMDSVFKELLGKTSVRQGLGPASTTSP  
SPGPRSPKAPPSSRLGRNKGFSRGPAPSPSASHPQGLDTPKPH

>sp|P85298|RHG08\_HUMAN Rho GTPase-activating protein 8 OS=Homo sapiens GN=ARHGAP8 PE=1  
SV=1

MAGQDPALSTSHPFYDVARHGILQVAGDDRFGRRVVTFSCCRMPPSHELDHQRLLLEYLKY  
TLDQYVENDYTIVYFHYGLNSRNKPSLGWLQSAYKEFDRKDGDLTMWPRLVSNSKLKRSS  
HLSLPKYWDYRYKKNL KALYVVHPTSFIKVLWNILKPLISHKFGKKVIYFN YLSELHEHL  
KYDQLVIPPEVLRYDEKLQSLHEGRTPPTKTPPRPPLTQQFGVSLQYLKDNQGELI  
PPVLRFVTYTLREKGLRTEGLFRRSASVQTVREIQRLYNQKGPVNFDDYGDIIHIPAVILK  
TFLREL PQPLTFQAYEQILGITCVESL RVTGCRQILRSLPEHNYVVLRYLMGFLHAVS  
RESIFNKMNSSNLACVFGLNLIWPSQGVSSLSALVPLNMFTELLIEYEEKIFSTPEAPGE  
HGLAPWEQGSRAAPLQEAVPRTQATGLTKPTLPPSPLMAARRRL

>sp|Q9P2F6|RHG20\_HUMAN Rho GTPase-activating protein 20 OS=Homo sapiens GN=ARHGAP20 PE=1  
SV=2

MEAMSPQQETLGGQPGRSSSLTGVSRLAGGSCTKKMKMTLAERRRSAPSLILDKALQKRP  
TTRDSPA SVDTCTFLSSLVCSNR TLLIDGRAELKRGLQRQERHLFLFNDLFVVA KIKYN  
NNFKIKNKIKLTDMTASCVDDEVGEGNTNAMKSFVLGWPTVNFVATFSSPEQKDKWLSLL  
QRYINLEKEKDYPKSIPLKIFAKDIGNCAYSKTITVMNSDTANEVINMSLPMLGITGSE  
DYQLWVNSGKEEAPYPLIGHEYPIYGIKMSHLRDSALLTPGSKDSTTPFNLQEPFLMEQLP  
REMQCQF ILKPSRLAAAQQLSDSGHKTFKRRRSIINWAFWRGSSTHLDNLPSSPTSPMPG  
QLFGISLPNICENDNL PKPVLDM LFFLNQKGPLTKGIFRQSANVKSRELKEKLNSGVEV  
HLDCE SIFVIASVLKDFLRNIPGSIFSSDLYDHVVSMDQGNDEEKINTVQRLLDQLPRA  
NVVLLRYLFGVLHNI EQHSSSNQMTAFNLAVCVAPSILWPPASSSPELENEFTKKVSLLI  
QFLIENCLRIFGEEITSLFREVSVRCDTRENASDISCFQLNDSSYDSLENELNEDVDAPC  
SDLVKKLGQGS RMDSVLTLSDYDL DQPEVEGLLTLSDFDLAH SKDEDVQMKRPLESKPV  
NILVYTKIPLRDHARAPSAMCTPSY LSTAAANA AKSLRRHRCSEPSIDYLD SKLSYLRE  
FYQKKLRKSSCDAIL SQKDEDY LKQNQPLQEEGKTCFKQSLVTGTDVSKKNATTQNTKKK  
SLSGSEGNHV KLFPKSKPVAISVASYS PMSSQDHSKNQPFVNTSGYSPPH TADALKGPR  
THRRCEPNIEDQNRKLT YLRGIYSKKQH KTSCEAGLLHGEEDY LKRHKS LQMEGQKLIN  
QSLVMGIEVGKSSATNQNT EKVLPRLNLCPRTSYSSLSSPGTSPSGSSVSSQDSAFSQI  
SEHSVFTPTETSSPIDCTFQAQRKREDLSPDFSNASHVSGMPGPSSGQACSRPAYTKKDT  
MEWHSQMHSVTLHPSTWLRNGVASLKNWSLKKAKAARPEEEKIASPKGPLEPPPHASGV  
PEANSLQEEQKDLPLAAEGLSPVQSAQRCS SSPFQDSE RHCSSPFSLVESRLKLCMKSH  
EEIEPGSQSSSGSLPWERASASSWTLEDATSPDSGPTVVC DIEDRYLTKDI

>sp|Q5T5U3|RHG21\_HUMAN Rho GTPase-activating protein 21 OS=Homo sapiens GN=ARHGAP21 PE=1  
SV=1

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FTLRHFIVYPPESAIQFSYKDEENG NRGGKQRNRLEPMDTIFVKQVKEGGPAFEAGLCTG

DRIKVNAGESVIGKTYSQVIALIQNSDTTLELSVMPKDEDILQVLQFTKDVTALAYSQDA  
YLKGNEAYSGNARNIPEPPPICYPWLPSAPSAMAQVEISPPDSSLKQQTSTPVLTPQG  
RAYRMEIQVPPSPDVAKSNTAVCVCNESVRTVIVPSEKVVDLLSNRNNHTGPSHRTEEV  
RYGVSEQTSCLKTVSRRTSPPLSIPTTHLIHQPAGSRSLPSGILLKSGNYSGHSDGISS  
RSQAVEAPSVSVNHYSNHSQHIDWKNYKTYKEYIDNRRHLHIGCRTIQRLDLRAASQS  
TTDYNQVVPNRITLQGRRRSTSHDRVPQSVQIRQRSVSQERLEDSVLMKYCPRSASQAL  
TSPSVSFSNHRTRSWDYIEGQDETLENVNSGTPIPDNNGEKKQTYKWSGFTEQDDRRGIC  
ERPRQQEIHKSFRGSNFTVAPSVVNSDNRMSGRGVGSVSQFKKIPDLKTLQSNRNFQT  
TCGMSLPRGISQDRSPLVKVRNSLKAPOSTHVTKPSFSQKSFVSIKQRPVNLHQNSLL  
NQQTWVRTDSAPDQQVETGKSPSLSGASAKPAPQSENAGTSDLELPVSQRNQDLSLQEA  
ETEQSDTLDNKEAVILREKPPSGRQTPQPLRHQSYILAVNDQETGSDTTCWLPNDARREV  
HIKRMEEKASSTSPPGDLSAIPFIDEPTSPSIDHIDIAHIPASAVISASTSQVPSIATV  
PPCLTTSAPLIRRQLSHDHESVGPPSLDAQPNSKTERSKSYDEGLDDYREDAKLSFKHVS  
SLKGIKIADSQKSSSEDSGRKDDSSSEVFSDAAKEGWLHFRPLVTDKGRVGGSIKRWKQ  
YVVLRGHSLYLYKDKREQTTPSEEEQPISVNACLIDISYSETKRKNVFRLLTSDCECLFQ  
AEDRDDMLAWIKTIQESSNLNEEDTGVTNRDLISRRIKEYNLMKAEQLPKTPRQSLSI  
RQTLGAKSEPKTQSPHSPKEESERKLLSKDDTSPPKDKGTWRKGIPSIMRKTFEKKPTA  
TGTGVRLLDDCPAHTNRYIPLIVDICKLVEERGLEYTGIRVPGNNAATSSMQEELNK  
GMADIDIQDDKWRDLNVISLLKSFFRKLPEPLFTNDKYADFIENRKEDPLDRLKTLKR  
LIHDLPEHHYETLKFLSAHLKTAENSEKNKMEPRNLAIVFGPTLVRTSEDNMTHMVTHM  
PDQYKIVETLIQHHDWFFTEEGAEPLTTVQEESTVDSQVPVNIHLLTNIGRTGVSPGD  
VSDSATSDSTKSGSWGSGKDQYSRELLVSSIFAAASRKRKKPKEKAQPSSSEDELNVF  
FKKENVEQCHNDTKEESKKESETLGRKQKIIIAKENSTRKDPSTTKDEKISLGKESTPSE  
EPSPPHNSKHNSPTLSCRFAILKESPRSLLAQKSSHLEETGSDSGTLLSTSSQASLARF  
SMKKSTSPETKHSEFLANVSTITSYSTTSSATYLTSLDSSRLSPEVQSVAESKGDEADD  
ERSELISEGRPVETDSESEFPVFPTALTSERLFRGKLQEVTKSSRRNSEGSELSCTEGSL  
TSSLDSSRRQLFSSHKLIECDTLRKKKSARFKSDSGSLGDAKNEKEAPSLTKVFDVMKKGK  
STGSLLTPTRGESEKQEPWTWKTIADRLKLPRAPADDMFGVGNHKVNAETAKRKSIRRR  
HTLGHRDATEISVLNFWKVHEQSGERESELSAVNRLPKKCSAQDLSISDWLARERLRTS  
TSDLSRGEIGDPQTENPSTREIATTDTPLSLHCNTGSSSSTLASTNRPLLSIPPQSPDQI  
NGESFQNVSKNASSAANAQPHKLSETPGSKAEFHPCL

>sp|Q7Z6I6|RHG30\_HUMAN Rho GTPase-activating protein 30 OS=Homo sapiens GN=ARHGAP30 PE=1  
SV=3

MKSRQKGKKKGSAKERVFGCDLQEHLLQHSQGQEVQVLKSCAEFVEEYGVVDGIYRLSGVS  
SNIQKLKQEFESERKPDLLRRDVLQDIHCVSSLCKAYFRELDPDLLTYRLYDKFAEAVGV  
QLEPERLVKILEVRELVPVNYRTLEFLMRHLVHMASFSAQTNMHARNLAIVWAPNLLRS  
KDIEASGFNGTAAFMVVRVQSIVVEFILTVDQLFGGAALSGGEVESGWRSLPGTRASGS  
PEDLMRPLPYHLPSILQAGDGPQMRPYHTIIETIAEHKRKGLKVRKWSIFNLGRSGH  
ETKRKLPRGAEDREDKSNKGTLRPAKSMDLSAAAGASDEPEGLVGPSSPRPSPLLPESL  
ENDSIEAAEGEQEPEAEALGGTNSPGTPRAGRSAIRAGGSSRAERCAGVHISDPYVNL  
PLHITSILSVPPNIIISNVSLARLTRGLECPALQHRPSPASGPGPGPLGPGPPDEKLEAS  
PASSPLADSGPDDLPALEDSLSQEVQDSFSLFEDSSSSEPEWVGAEDGEVAQAEEAAGAA  
FSPGEDDPGMGYLEELLGVGPQVEEFVPEPLDDLSDLAQFVLAPSCCLDSAGPRPEV  
EEENGEEVFLSAYDDLSPLLGPKPPIWKSGSLEGEAAGCGRQALGQGGEQACWEVGED



KQAEPPGGRLDIREEAEGSPETKVEAGKASEDRGEAGGSQETKVRLREGSREETEAKEEKS  
KGQKKADSMEAKGVVEPPGGDEYTDEKEKEIEREEDEQREEAQVEAGRDLEQGAQEDQVAE  
EKWEVVQKQEAEGVREDEDKGQREKGYHEARKDQGDGEDSRSPEAATEGGAGEVSKERES  
GDGEAEGDQRRAGGYLEEDTLSESGVASLEVDCAKEGNPHSSEMEEVAPQPPQPEEMEP  
EGQPSPDGCLCPCSLGLGGVMRLASTLVQVQQVRSVPVPPKQFAKMPSAMCSKIHVA  
PANPCPRPGRLDGTPGERAWGSRASRSSWRNGGSLSFDAVALARDRQRTEAQGVRRRTQT  
CTEGGDYCLIPRTSPCSMISAHSPRPLSCLELPSEGAEGSGSRSLSLPPREPQVPDPLL  
SSQRRSYAFETQANPGKGEGL

>sp|Q6ZRI8|RHG36\_HUMAN Rho GTPase-activating protein 36 OS=Homo sapiens GN=ARHGAP36 PE=2  
SV=1

MGGCIPFLKAARALCPRIMPPLLLLSAFIFLVSVLGGAPGHNPDRRTKMVSIHSLSELER  
LKLQETAYHELVARHFLSEFKPDRLPIDRPNTLDKWFLILRGQRAVSHKTFGISLEEV  
LVNEFTRRKHLELTATMQVEEATGQAAGRRRGNVVRRVFGRIRRRFSRRRNEPTLPREFT  
RRGRRGAVSVDSLAELEDGALLQLTLQLSKISFPIGQRLGSKRKMSLNPIAKQIPQVVE  
ACQCFIEKHGLSAVGIFTLEYSVQRVRQLREEFDQGLDVLLDDNQNVHDVAALLKEFFRD  
MKDSLLPDDLMSFLLTATLKPQDQLSALQLLVYLMPPCHSDTLERLLKALHKITENCED  
SIGIDGQLVPGNMTSTNLALVFGSALLKKGKFGKRESRKTCLGIDHYVASNVVRAMID  
NWDVLFQVPPHIQRQVAKRVWKSSPEALDFIRRRNLRKIQSARIKMEEDALLSDPVETSA  
EARAVALAQSKPSDEGSSEEPVPSGTARSHDDEEGAGNPPPIEQDRPLL RVPREKEAKT  
GVSYFFP

>sp|Q3KRB8|RHGBB\_HUMAN Rho GTPase-activating protein 11B OS=Homo sapiens GN=ARHGAP11B  
PE=2 SV=1

MWDQRLVKLALLQHLRAFYGIVKGVRGQCRRRHETAATEIGGKIFGVFPNALPHSAVP  
EYGHIPSFLVDACTSLEEHIHTEGLFRKSGSVIRLKALKNKVDHGEGLSSAPPCDIAGL  
LKQFFRELPEPILPADLHEALLKAQQLGTEEKNKAILLLSCLLADHTVHVLRYFFNFLRN  
VSLRSENKMDSSNLAVIFAPNLLQTSEGHEKMSSNAEKKGVYQTLWKRYQPCWVLMVS  
VLLHHWKALKKVNMLLVNIREREDNV

>sp|Q8IUC4|RHPN2\_HUMAN Rhophilin-2 OS=Homo sapiens GN=RHPN2 PE=1 SV=1

MTDALLPAAPQPLEKENDGYFRKGCNPLAQTRSKLQNQRAALNQILKAVRMRTGAENL  
LKVATNSKVREQVRLELSFVNSDLQMLKEELEGLNISVG VYQNT EEAFTIPLIPLGLKET  
KDVDFAVVLKDFILEHYSEDGYLYEDEIADLMDLRQACRTPSRDEAGVELLMTYFIQLGF  
VESRFFPPTRQMGLLFTWYDSL TGVPVSQQNLLLEKASVLFNTGALYTQIGTRCDRQTQA  
GLES AIDAFQRAAGVLNLYKDTFTHTPSYDMSPAMLSVLVKMMLAQAESVFEKISLPGI  
RNEFFMLVKVAQEA AKVGEVYQQLHAAMSQAPVKENIPYSWASLACVKAHHYAALAHYFT  
AILLIDHQVKPGTDLDH QEKCLS QLYDHMP EGLTPLATLKN DQRRQLGKSHLRRAMAHH  
EESVREASLCKKLRSIEVLQKVLCAAQERSRLTYAQHQEEDLLNLIDAPSVVAKTEQEV  
DIILPQFSKLTVTDFQKLGPLSVFSANKRWTPPRSIRFTAEEGDLGFTLRGNAPVQVHF  
LDPYCSASVAGAREGDYIVSIQLVDCKWLTSEVMKLLKSFGED EIMKVVSLLDSTSSM  
HNKSATYSVGMQKTYSMICLAIDDDDKTDKTKKISKKLSFLSWG TNKNRQKSASTLCLPS  
VGAARPQVKKKLSPFSLNDS SSWY

>sp|Q13278|RIG\_HUMAN Putative protein RIG OS=Homo sapiens GN=RIG PE=5 SV=1

MPFFSSCLCPSHSYGSPSLPSSTSSSLPTGPENQLGFVLLQAMVHHANSSCVRNAFWLQIT  
EKLT PALSI IISVYLRCP EMVENRIGFLLNVKDSKTL SVVGPHPKPCIL

>sp|Q86UR5|RIMS1\_HUMAN Regulating synaptic membrane exocytosis protein 1 OS=Homo sapiens  
GN=RIMS1 PE=1 SV=1

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MAKPAACKTPRNAENQPHQPSRLHQQFESYKEQVRKIGEEARRYQGEHKDDAPTCGICH  
KTKFADGCGHLCSYCRTKFCARCGGRVSLRSNNEDKVVMMVCNLCRKQQEILTKSGAWFF  
GSGPQQTSQDGLSDTATGAGSEVPREKKARLQERSRSQTPLSTAAASSQDAAPPSAPPD  
RSKGAEPSQQALGPEQKQASSRSRSEPPRERKKTPLGLEQNGKGALKSERKRVPKTSAQP  
VEGAVEERERKERRESRRLKGRSQDYPDTPPEKRDEGKAADDEKQRKEEDYQTRYRSDPN  
LARYPVKPPPEEQMRMHARVSRARHERRHSDVALPRTEAGAALPEGKAGKRAPAAARAS  
PPDSPRAYSAERTAETRAPGAKQLTNHSPPAPRHGPVPAEAPELKAQEPLRKQSRDPSS  
AVLMRKAKREKVETMLRNDLSDDQSESVRPSPPKPHRSKRGGKKRQMSVSSSEEEGVST  
PEYTSCDVELESESVSSEKGDLDYYWLDPATWHSRETSPISSHPVTWQPSKEGDRLIGRV  
ILNKRRTMPKDSGALLGLKVVGKMTDLGRLGAFITKVKKGLADVGHLAGDEVLEWN  
GKPLPGATNEEVYNIILESKSEPQVEIIVSRPIGDIPIPESSHPPLESSSSSFESQKME  
RPSISVISPTSPGALKDAPQVLPQQLSVKLWYDKVGHQLIVNVLQATDLPARVDGRPRNP  
YVKMYFLPDRSDKSKRRTKTVKKILEPKWNQTFVYSHVHRRDFRERMLEITVWDQPRVQE  
EESEFLGEILIELETALLDDEPHWYKLQTHDESSLPLPQSPFMPRRHIHGESSKKLQR  
SQRISDSIDSYEVDGIGVPPVGYRSSARESKSTTLTVPEQQRTTHRSRSVSPHRGN  
DQGKPRSRLPNVPLQRSLEIHPTRRSRSPTRHHDASRSPVDHRTDVDQYLSEQDSEL  
LMLPRAKRGRSAECLHTTRHLVRHYKTLPPKMPLQLSSSHWNIYSSILPAHTKTKSVTRQ  
DISLHHECFNSTVLRFTDEILVSELQPFLDRARSASTNCLRPDTSLSHSRERGRWSPSL  
DRRRPPSPRIQIQHASPENDRHSRKSERSSIQKQTRKGTASDAERVLPTCLSRRGHAAPR  
ATDQPVIRGKHPARSRSSEHSSIRTLCSMHHLVPGGSAPPSPLLTRMHRQRSPTQSPPAD  
TSFSSRRGRQLPQVPVRSGSIEQASLVVEERTRQMKMKVHRFKQTTGSGSSQELDREQYS  
KYNIHKDQYRSCDNVSAKSSSDSDVSDVSAISRTSSASRLSSTSFMSEQSERPRGRISSFT  
PKMQGRRMGTSGRSIMKSTSVSGEMYTLEHNDGSQSDTAVGTVGAGGKKRRSSLSAKVVA  
IVSRRSRSTSQLSQTESGHKKLKSTIQRSTETGMAAEMRKMVRQPSRESTDGSINSYSSE  
GNLIFPGVRLGADSQFSDFLDGLGPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRA  
RSLTQKPGSKSTPAPYVKVYLLENGACIAKKKTRIARKTLDPLYQQSLVFDESPQGVVQ  
VIVWGDYGRMDHKCFMGVAQILLEELDLSSMVGWYKLFPPSSLVDPTLTPLTRRASQSS  
LESSTGPPCIRS

>sp|Q9UQ26|RIMS2\_HUMAN Regulating synaptic membrane exocytosis protein 2 OS=Homo sapiens  
GN=RIMS2 PE=1 SV=2

MSAPVGPRGLAPIAASQPPLQPEMPDLSHLTEERKIIILAVMDRQKKKVKEHKPQLT  
QWFPFSGITELVNNVLQPPQKQKQNEKPQTKLHQQFEMYKEQVKMGEESSQQQQEQKGDA  
PTCGICHKTKFADGCGHNCSYCQTKFCARCGGRVSLRSNKVMVCNLCRKQQEILTKSGA  
WFYNSGSNTPQQPDQKVLRLRNEEAPQEKPKLHEQTQFQGPSGLSVPAVEKSRSHGL  
TRQHSIKNGSGVKHHIASDIASDRKRSPSVSRDQNRRYDQREEREYSQYATSDTAMPRS  
PSDYADRRSQHEPQFYEDSDHLSYRDSNRRSHRHSKEYIVDDEDVESRDEYERQRREEEY  
QSRYSRDPNLARYPVKPPQYEEQMRIHAESRARHERRHSDVSLANADLEDRIISMLRMD  
RPSRQRSISERRAAMENQRSYSMERTREAQGPSSYAQRTTNHSPPTPRRSPLPIDRPDLR  
RTDSLRLKQHHLDPSSAVRKTKREKMETMLRNDLSDDQSESVRPPPPKPKSKKGGKMRQ  
ISLSSSEELASTPEYTSCDDVEIESESVSSEKGDQKGRKKTSEQAVLSDSNTRSERQKE  
MMYFGGHSLEEDLEWSEPQIKDSGVDTCSSSTLNEEHSKHPVTWQPSKGDRLIGRI

LLNKRLLKDGSVPRDSGAMLGKVVGGKMTESGRLCAFITKVKKGSLADTVGHLRPGDEVL  
EWNGRLLQGATFEEVYNIILESKEPEQVELVVSRIPIGDIPRIPDSTHAQLESSSSSFESQ  
KMDRPSISVTSPMSPGMLRDVPQFLSGQLSIKLWFDKVGHLIVTILGAKDLPSREDGRP  
RNPYVKIYFLPDRSDKNKRRTKTVKKTLEPKWNQTFIYSPVHRREFRERMLEITLWDQAR  
VREEESEFLGEILIELETALLDDEPHWYKLQTHDVSSLPLPHSPYMPRRQLHGESPTRR  
LQRSKRISDSEVSDYDCDDGIGVVS DYRHDGRDLQSSTLSVPEQVMSSNHCSPSGSPHRV  
DIVIGRTRSWSPSPVPPQSRNVEQGLRGTRTMTGHYNTISRMDRHRVMDHYSRDRDRDCE  
AADRQPYHRSRSTEQRP LLERTTTRSRSTERPDNLMSMPSLMTGRSAPPSPALSRSH  
RTGSVQTSPTSSTPVAGRGRQLPQLPPKGTLDKAGGKKLRSTVQRSTETGLAVEMRNM  
TRQASRESTDGS MNYSSEGNLIFPGVRLASDSQFSDFLDGLGPAQLVGRQTLATPAMGD  
IQVGMMDKKGQLEVEIIRARGLVVKPGSKTLPAPYVKVYLLDNGVCIAKKKTKVARKTLE  
PLYQQLLSFEESPQKVLQIIIVWGDYGRMDHKSFMGVAQILLDELELSNMVIGWFKLFPP  
SSLVDPTLAPLTRRASQSSLESSTGPSYSRS

>sp|Q13671|RIN1\_HUMAN Ras and Rab interactor 1 OS=Homo sapiens GN=RIN1 PE=1 SV=4

MESPGESGAGSPGAPSPSSFTTGHAREKPAQDPLYDVPNASGGQAGGPQRPRVSVSLRE  
RLLLTRPVWLQLQANAAAAHMLRTEPPGTFLVRKSNTRQCQALCMRLPEASGPSFVSSH  
YILESPGGVSLEGSELMFPDLVQLICAYCHTRDILLPLQLPRAIHHAATHKELEAISHL  
GIEFWSSSLNIKAQRGPAGGPVLPQLKARSPQELDQGTGAALCFNPLFPDGLGPTKREK  
FKRSFKVRVSTETSSPLSPPAVPPPPVPVLPGAVPSQTERLPPCQLLRRESSVGYRVPAG  
SGPSLPPMPSLQEVDCGSPSSSEEGVPGSRGSPATSPHLGRRRPLLRSMASAFCSLLAP  
ERQVGRAAAALMQDRHTAAGQLVQDLLTQVRAGPEPQELQGIRQALSARAMLSAELGPE  
KLLSPKRLEHVLEKSLHCSVLKPLRPILAARLRRRLAADGSLGRLAEGRLRLARAQPGAF  
GSHLSLPSPVELEQVRQKLLQLLRTYSPSAQVKRLLQACKLLYMALRTQEGEGAGADEFL  
PLLSVLVAHCDLPELLLEAEYMSELLEPSLLTGEGGYLTSLSASLALLSGLGQAHTLPL  
SPVQELRRSLSLWEQRRLPATHCFQHLLRVAYQDPSSGCTSKTLAVPPEAS IATLNQLCA  
TKFRVTQPNTFGLFLYKEQGYHRLPPGALAHRLPTTGYLVYRRAEWPETQGAVTEEEGSG  
QSEARSRGEEQGCQGDGAGVKASPRDIREQSETTAEGGQGAQEGPAQPGEPEAEGSRA  
AEE

>sp|Q6ZS11|RINL\_HUMAN Ras and Rab interactor-like protein OS=Homo sapiens GN=RINL PE=2  
SV=2

MAQPEDKAPEVPTEGVRLVPPQVNKADRTPLGVLSTLEPLTRLQRTWGVVHVPELDTQDA  
EALVGLWPLGSFLTGRDPSQALVLRSGPLPGEVNTYQIQKIPRGVSLESSNLCMPDLPH  
LLAFLSASRDVLPRTLPPPTLGRDEHTDPVQIGRVQQDTPGKVLIVNQLYLETHRG  
WGREQTPQETEPEAAQRHDPAPRNPAPHGVSWVKGPLSPEVDHPGPALASLLEEEEDLE  
GKEEGREDDPEEGPEDVLTIIHVQSLVRARSSYVARQYRSLRVRIASDSGGPHGSGDPAT  
ELLQDVRHLLTDLQDHLAKDSYIRAVFGSRGPGLPKKDEDPGPALETAVCQAVLAPLKPA  
LWTRLRTLRAPELRLRRRQTALRAGAGPPGAQGPGPEGQSPAPALRSRIHERLAHLHAA  
CAPRRKVALLLEVCRDVYAGLARGENQDPLGADAFLPALTEELIWSPDIGDTQLDVEFLM  
ELLDPELRGEAGYYLTTFWFGALHHIAHYQPETDRAPRGLSSEARASLHQWHRRTLHRK  
DHPRAQANLPFKEPWAEETVTGTSDN

>sp|O43353|RIPK2\_HUMAN Receptor-interacting serine/threonine-protein kinase 2 OS=Homo  
sapiens GN=RIPK2 PE=1 SV=2

MNGEAICSALPTIPYHKLADRLVLSRGASGTVSSARHADWRVQVAVKHLHIHTPLLDSE  
KDVLR AEAILHKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDVAWPL

RFRILHEIALGVNYLHNMTPELLHHDLTQNILLDNEFHVKIADFGLSKWRMMSLSQSRS  
SKSAPEGGTIIYMPPENYEPGQKSRSASIKHDIYSYAVITWEVL SRKQPFEDVTNPLQIMY  
SVSQGHRPVINEESLPYDIPHRARMISLIESGWAQNPDERPSFLKCLIELEPVLRTFEEI  
TFLEAVIQLKKTQLQSVSSAIHLCDKKKMELSLNIPVNHGPQEESGSSQLHENS SPET  
SRSLPAPQDNDFLSRKAQDCYFMKLHHC PGNHSWDSTISGSQRAAFCDHKTTPCSSAIIN  
PLSTAGNSERLQPGIAQQWIIQSKREDIVNQMT EACLNQSLDALLSRDLIMKEDYELVSTK  
PTRTSKVRQLD TTDI QGEEFAKIVIVQKLKDNKQMG LQPYPEILVVS RSPSLNLLQNKSM

>sp|Q7LG56|RIR2B\_HUMAN Ribonucleoside-diphosphate reductase subunit M2 B OS=Homo sapiens  
GN=RRM2B PE=1 SV=1

MGDPERPEAAGLDQDERSSSDTNESEIKSNEEPLL RKSSRRFVIFPIQY PDIWKMYKQAQ  
ASFWTAEEVDLSKDLPHWNKLKADEKYFISHILAFFAASDGIVNENLVERFSQEVQVPEA  
RCFYGFQIL IENVHSEMYSL IDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRK  
STFGERVVAF AAVEGVFFSGSFAAIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFQ  
YLVNKPSEERVREIIVDAVKIEQEFLTEALPVGLIGMNCILMKQYIEFVADRLLVELGFS  
KVFQAENPFDFMENISLEGKTNFFEKRVSEYQRF AVMAETD NVTLDADF

>sp|Q8NH2|RFW2\_HUMAN E3 ubiquitin-protein ligase RFW2 OS=Homo sapiens GN=RFW2 PE=1  
SV=1

MSGSRQAGSGSAGTSPGSSAASSVTSASSSLSSSPSPSVAVSAAALVSGGVAQAAGSGG  
LGGPVRPVLVAPAVSGSGGAVSTGLSRHSCAARPSAGVGSSSSSLGSGSRKRPLLAPLC  
NGLINSYEDKSNDFVCPICFDMIEEAYMTKCGHSFCYKCIHQSL EDNNRCPKCNYYVDNI  
DHLYPNFLVNELILKQKQRFEEKRFKLDHSVSSTNGHRWQIFQDWLGT DQDNLDLANVNL  
MLELLVQKKKQLEAESHA AQLQILMEFLKVARRNKREQLEQIQKELSVLEEDIKRVEEMS  
GLYSPVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFSGSSQTKKQPWYNSTLASRRKRL  
TAHFEDLEQCYFSTRMSRISDDSR TASQLDEFQECLSKFTRYNSVRPLATLSYASDLYNG  
SSIIVSSIEFDRDCDYFAIAGVTKKIKVYEYD TVIQDAVDIHYPENEMTCNSKISCISWSS  
YHKNLASSDYEGTVILWDGFTGQRSKVYQEHEKRCWSVDFNLMDPKLLASGSDDAKVKL  
WSTNLDNSVASIEAKANVCCVKFSPSSRYHLAFGCADHCVHYYDLRNTKQPI MVFKGHRK  
AVSYAKFVSGEEIVSASTDSQLKLWNVGKPYCLRSFKGHINEKNFVGLASNGDYIACGSE  
NNSLYLYYKGLSKTLLTFKFDTVKSVDKDRKEDDTNEFVSAVCWRALPDGESNVLIAAN  
SQGTIKVLELV

>sp|Q8N431|RGF1C\_HUMAN Ras-GEF domain-containing family member 1C OS=Homo sapiens  
GN=RASGEF1C PE=2 SV=2

MPQTLASDMVTPGSLSPPTPEPTDGEQAGQPLLDGAPSSASLETLIQH LVPTADYYPEK  
AYIFTFLSSRLFIEPRELLARVCHLCIEQQQLDKPVL DKARVRKFGPKLLQLLAETET  
FPRDFQEESTIGHLKDVVGRIAPCDEAYRKR MHQLLQALHQKLAALRQGPEGLVGADKPI  
SYRTKPPASIHRELLGVCSDPYTLAQQ LTHVELERLRHIGPEEFVQAFVNKDPLASTKPC  
FSDKTSNLEAYVKWFNRLCYLVATEICMPAKKKQRAQVIEFFIDVARECFNIGNFNSLMA  
IISGMNMSPVSRLKKTWAKVRTAKFFILEHQM DPTGNFCNYRTALRGAAHRS LTAHSSRE  
KIVIPFFSLLIKDIYFLNEGCANRLPNGHVNF EKFL ELAKQVGEFITWKQVECPFEQDAS  
ITHYLYTAPIFSEDGLYLASYESESPENQTEKERWKALRSSILGKT

>sp|Q9NZL6|RGL1\_HUMAN Ral guanine nucleotide dissociation stimulator-like 1 OS=Homo  
sapiens GN=RGL1 PE=1 SV=1

MKLLWQAKMSSIQDWGEEVEEGAVYHVT LKRVQIQQAANKGARWLGVEGDQLPPGHTVSQ  
YETCKIRTIKAGTLEKLVENLLTAFGDNDFTYISIFLSTYRGFASTKEVLELLLD RYGNL

TSPNCEEDGSQSSSESKMVI RNAIASILRAWLDQCAEDFREPPHFPCLQKLLDYLTRMMP  
GSDPERRAQNLLQFQKQEVETDNGLPNTISFSLEEEEELEGGESAFTCFSEDLVAEQL  
TYMDAQLFKKVPHHCLGCIWSRRDKKENKHLAPTIRATISQFNTLTCKVSTILGGKEL  
KTQQRAKIIEKWINIAHECRLLKNFSSLRAIVSALQSNISYRLKKTAAVPRDRMLMFEE  
LSDIFSDHNNHLSRELLMKEGTSKFANLDSSVKENQKRTQRRLLQLQKDMGVMQGTVPYL  
GTFLTDLTMLDTALQDYIEGGLINFEKRRREFEVIAQIKLLQSACNSYCMTPDQKFIQWF  
QRQQLLTEESYALSCEIEAAADASTTSPKPRKSMVKRLSLLFLGSDMITSPPTKEQPK  
STAGSSGESMDSVSVSSCESNHSEAEESITPMDTPDEPQKKLSESSSSCSSIHSMNTN  
SSGMSSLINPLSSPPSCNNPKIHKRSVSVTSITSTVLPVYNQQNETCIIIRISVEDNN  
GNMYKSIMLTSQDKTPAVIQRAMLKHNLDSDPAEEYELVQVISEDKELVIPDSANVFYAM  
NSQVNFDFILRKKNSMEEQVKLSRSTSLTLPR TAKRGCSNRHSKITL

>sp|O15211|RGL2\_HUMAN Ral guanine nucleotide dissociation stimulator-like 2 OS=Homo sapiens GN=RGL2 PE=1 SV=1

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EEDGAVFTVTSRQYRPLDPLVMPPPRSSRRLRAGTLEALVRHLLDTRTSGTDVSFMSAF  
LATHRAFTSTPALLGLMADRLEALESHTDELERTTEVAISVLSTWLASHPEDFGSEAKG  
QLDRLESFLLQTGYAAGKGVGGGSADLIRNLSRVDPQAPDLPKPLALPGDPPADPTDVL  
VFLADHLAEQLTLDAELFNLIPSQCLGGLWHRDRPGHSHLCPSVRATVTQFNKVAGA  
VVSSVLGATSTGEGPGEVTIRPLRPPQARLLEKWIRVAEECRLLRNFSVYAVVSALQS  
SPIHRLRAAWGEATRDSLRVSSLCQIFSEEDNYSQSRELLVQEVLQSPLEPHSKKAPR  
SGSRGGGVVYPYLGTLKDLVMLDAASKDELENGYINFDKRRKEFAVSELRLQNECRGY  
NLQPDHDIQRWLQGLRPLTEAQSHRVSCVEPPGSSDPPAPRVL RPTLVISQWTEVLGSV  
GVPTPLVSCDRPSTGGDEAPTPAPLLTRLAQHMKWPSVSSLDSALESSPSLHSPADPSH  
LSPPASSPRPSRGHRRSASCGSPLSGGAEASGGTGYGGEGSGPGASDCRIIRVQMEIGE  
DGSVYKSILVTSQDKAPSVISRVLKKNRDSAVASEYELVQLLPGERELTIPASANVFYA  
MDGASHDFLLRQRRSSSTATPGVTSGPSASGTPPSEGGGGSFPRIKATGRKIIARLF

>sp|Q2PPJ7|RGPA2\_HUMAN Ral GTPase-activating protein subunit alpha-2 OS=Homo sapiens GN=RALGAPA2 PE=1 SV=2

MFSRRSHGDVKKSTQKVLPDKDVLTRLKHLRALLDNVDANDLKQFFETNYSQIYFIFYE  
NFIALENSLKLKGNKSQREELDSILFLFEKILQFLPERIFFRWHYQSIGSTLKKLLHTG  
NSIKIRCEGIRLFLWLQALQTNCAEEQVLIFACLVPGFPAVMSSRGPCTLETLINPSPS  
VADVKIYPEEITPLPAISGEKIAEDQTCFFLQILLKYMVIQAASLEWKNKENQDTGFKF  
LFTLFRKYYPHLFPSFTKLTNIYKPVLDIHLRPKPVYITTRDNENIYSTKIPYMAAR  
VVFIKWIVTFLEKKYLTATQNTKNGVDVLPKIIQTVGGGAVQERAPELDGGGPTEQDKS  
HSNSTLSDRRLSNSLCSIEEHRMVYEMVQRILLSTRGYVNFVNEVFHQAFLLPSCIE  
AVTRKVVQVYRKWILQDKPVFMEEPDRKDVAQEDAELGFSSETDSKEASSESSGHRSSS  
WGRTYSFTSAMSRCVTEENTNVKAGVQALLQVFLTNSANIFLLEPCAEPVLLKEQVD  
ACKAVLIIFFRMIMELTMNKTWEQMLQILLRITEAVMQPKPKDKQIKDLFAQSLAGLLFR  
TLMVAWIRANLCVYISRELWDDFLGVLSSLTEWEELINWANIMDSLTA VLARTVYGVEM  
TNLPLDKLSEQKEKKQRGKGCVLDPQKGTTVGRSFSLSWRSHPDVTEPMRFRSATTSGAP  
GVEKARNIVRQKATEVEECQQSENAPAAGSGHLTVGQQQQVLRSSSTSDIPEPLCSDSSQ  
GQKAENTQNSSSSEPQPIQENKGHVKREHEGITILVRRSSSPAELDLKDDLQQTQKCRE  
RQKSESTNSDTTLGCTNEAELSMGPWQTCEEDPELNTPTD VVADADARHWLQLSPTDASN  
LTDSSECLTDDCSIIAGGSLTGWHPDSA AVLWRRVLGILGDVNNIQSPKIHARVFCYLYE

LWYKLAKIRDNLAIISLDNQSSPSPVLIPLRMFASWLFKAATLPNEYKEGKLQAYRLIC  
AMMTRRQDVLPNDFLVHFYLVHMLGLTSEDQDILNTIIRHCPFRFFSLGFPGFSMLVGD  
FITAAARVLSTDILTAPRSEAVTVLGSVLCFPNTYQEIPLQSVPEVNEAITGTEDVKHY  
LINILLKNATEEPNEYARCIACVSLGVWICEELAQCTSHQVKEAINVIGVTLKFPNKIV  
AQVACDVLQLLVSYWEKLQMFETSLPRKMAEILVATVAFLLPSAEYSSVETDKKFIVSLL  
LCLLDWCMALPVSVLLHPVSTAVLEEQHSARAPLLDYIYRVLHCCVCGSSTYTQQSHYIL  
TLADLSSTDYDPFLPLANVKSSEPVQYHSSAELGNLLTVEEEKRRSLELIPLTARMVMA  
HLVNHGLGHYPLSGGPAILHSLVSENHDNAHVEGSELSFEVFRSPNLQLFVFNDSTLISYL  
QTPTEGPGVGGSPVGSLSVVRVIVRDISGKYSDGKVLGPLEGCLAPNGRNPISFLISSWH  
RDTFGPKQDSSQVEEGDDVLDKLENNIGHTSPECLLPQLNLNEPSLTPCGMNYDQEKEI  
IEVILRQNAQEDEYIQSHNFDSSAMKVTSQGGPSPVEPRGPFYFCRLLDDLGMNSWDRRK  
NFHLLKKNKLLRELKNLDSRQCRETHKIAVFYIAEGQEDKCSILSNERGSQAYEDFVAG  
LGWEVDLSTHCGFMGGLQRNGSTGQTAPYYATSTVEVIFHVSTRMPSDSDSLTKLRHL  
GNDEVHIVWSEHSRDYRRGIIPAFGDVSIIIYPMKNHMFIAITKKPEVPFPGPLFDGA  
IVSGKLLPSLVCATCINASRAVKCLIPLYQSFYEERALLYEATIQNHREVMTFEDFAAQV  
FSPSPSYSLSGTD

>sp|094810|RGS11\_HUMAN Regulator of G-protein signaling 11 OS=Homo sapiens GN=RGS11 PE=1  
SV=2

MAAGPAPPPGRPRAQMPHLRKMERVVVSMQDPDQGVKMRSQRLLVTVIPHAVTGSDVVQW  
LAQKFCVSEEEALHLGAVLVQHGYIYPLRDPRLMLRPDETYPYRFQTPYFWTSTLRPAAE  
LDYAIYLAKKNIRKRGTLVDYEDKCYDRLHKKINHAWDLVLMQAREQLRAAQKRSKGDRL  
VIACQEQTWLVNRPPPGAPDVLEQGPGRGSCAASRVLMTKSADFHKREIEYFRKALGRT  
RVKSSVCLEAYLSFCGQRGPHDPLVSGCLPSNPWISDNDAYWVMNAPTVAAPTCLRVERW  
GFSFRELEDPVGRAHFMDFLGKEFSGENLSFWEACEELRYGAQAQVPTLVDAVYEQFLA  
PGAHHVWNIDSRTMEQTLEGLRQPHRYVLDDAQLHIYMLMKKDSYPRFLKSDMYKALLAE  
AGIPLEMKRRVFPFTWRPRHSSPSPALLPTPVEPTAACGPGGGDVA

>sp|P49758|RGS6\_HUMAN Regulator of G-protein signaling 6 OS=Homo sapiens GN=RGS6 PE=1  
SV=5

MAQSGDQRAVGADPEESSPNMIVYCKIEDIITKMQDDKTGGVPIRTVKSFLSKIPSVV  
TGTDIVQWLMKNLSIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWP  
SNCWEPENTDYAIYLCKRTMQNKARLELADYEAENLARLQRAFARKWEFIFMQAEQVKI  
DRKKDKTERKILDSQERAFWDVHRPVPVCVNTTEMDIRKCRRLKNPQVKVKSQVYGVTEES  
QAQSPVHVSQPIRKTTKEDIRKQITFLNAQIDRHCLKMSKVAESLIAYTEQYVEYDPLI  
TPAEPSPNPWISDDVALWDIEMSKEPSQQRVKRWGFSFDEILKDQVGRDQFLRFLESEFSS  
ENLRFWLAVQDLKKQPLQDVAKRVEEIQWQEFAPGAPSAINLDSHSYEITSQNVKDGGRY  
TFEDAQEHYKLMKSDSYARFLRSNAYQDLLLLAKKKGKSLAGKRLTGLMQSS

>sp|A5PLK6|RGSL\_HUMAN Regulator of G-protein signaling protein-like OS=Homo sapiens  
GN=RGSL1 PE=2 SV=1

MSSAEIIGSTNLIILLEDEVFADFNTFLSLPVFGQTPFYTVENSQWSLWPEIPCNLIAK  
YKGLLTWLEKCRLLPFCKTNLCFHYILCQEFISFIKSPEGGEELVDFWILAENILSIDEM  
DLEVRDYYLSLLLMLRATHLQEGSRVVTLCNMNIKSLLNLSIWHPNQSTTRREILSHMQK  
VALFKLQSYWLPNFYTHTKMTAKEEACHGLMQEYETRLYSVCYTHIGGLPLNMSIKKCH  
HFQKRYSSRKAKRKMWQLVDPDSWSLEMDLKPDATGMPLQETCPQEKVVIQMPSLKMASS  
KETRISSLEKDMHYAKISSMENKAKSHLHMEAPFETKVSTHLRTVPIVNHSSKMTIQKA

IKQSFSGLGYIHLALCADACAGNPFRDHLKKLNLKVEIQLLDLWQDLQHFLSVLLNNKKN  
NAIFRHLLGDRICELYLNEQIGPCLPLKSQTIQGLKELLPSGDVIPWIPKAQKEICKMLS  
PWYDEFLEDEYWFLLFTTQNRFISSRQHKREFIGKEENILLYKRIQQSLELSQALADMK  
EMDYRQWRKIATEDLKQGGSLQVELTSPVFLTDITKMSFEELCYKNPKMAIQKISDDYKI  
YCEKAPKIDFKMEIIKETKTVSRNRKMSLLKRTLVRKPSMRPRNLTEVLLNTQHLEFFR  
EFLKERKAKIPLQFLTAVQKISLETNEKICKSLIENVIKTFFQGQLSPEEMLQCDAPIIK  
EIASMRHVTTSTLLTLQGHVMKSIEEKWFKDYQDLFPPHHQEVEVQSEVQISSRKPSKIV  
STYLQESQKKGWMRMISFIRSFCKYRRFMLNPSKRQEFEDYLHQEMQNSKENFTTAHNTS  
GRSAPPSTNVRADQENGEITLVKRRIFGHRIITVNFAINDLYFFSEMEKFNDLVSSAHM  
LQVNRAYNENDVILMRSKMNIQKFLNSDIPPKLRVNVPEFQKDAILAAITEGYLDRSV  
FHGAIMSVFPVVMYFWKRCFWKATRSLQYRGKKFKDRKSPPKSTDKYPFSSGGDNAIL  
RFTLLRGIEWLQPQREAISSVQNSSSSKLTQPRLVVSAMQLHPVQGQKLSYIKKEK

>sp|Q5TG30|RHG40\_HUMAN Rho GTPase-activating protein 40 OS=Homo sapiens GN=ARHGAP40 PE=3  
SV=3

MDQLPQKNLLRLHPAGSAGCSTGVESSSMDGFWMEVEQIQQRDELREEDSGGNEGQLPEE  
GEAESQWLQDTGLSGLLGLDGDHQLLSTLTQTQVAACVRRDIYARSVRRQHKTPV  
RDVRDVFVGFNSGKMSSENGDSGMKGAQLSSGASKFPAAEPGGLQEAGREEAFNMDSA  
YSEQAAVLLQRSRPSRGGTSAWGKCSLPKFTVPKGRLGVTRIGDLSLQDMRKVPSLALIE  
LTALCDILGLDLKRSKAGKWAAETRLFGVPLDSLLEADHKVLPSTQVPLVLQALLSCLE  
KRGDLMEGILRVPGSQARVKGLEQKLERDFYAGLFSWDEVHHNDASDLLKRFIRKLPTPL  
LTAEYLPFAFVVPNIPNLKQRLQVLHLLILPEPNRNALKALLEFLRKVVAREQHNMKT  
LRNVSTVMAPNLFHQGRPPKLPKGKEKQLAEGAAEVVQIMVHYQDLLWTVASFLVAQVR  
KLNDSSSRPQLCDAGLKTWLRMHADRDKAGDGLATPKVAKIQVWPIKDPLKVPLTP  
STKVAHVLRQFTEHLSPGSKGQEDSEDMSLLLHHRSMESANILLYEVGGNINEHRLDPD  
AYLLDLYRANPHGEWVLKQNPT

>sp|O00212|RHOD\_HUMAN Rho-related GTP-binding protein RhoD OS=Homo sapiens GN=RHOD PE=1  
SV=2

MTAAQAAGEEAPPGVRSVKVVLVGDDGGCKTSLLMVADGAFPESTPTVFERYMVNLQV  
KGKPVHLHIWDTAGQDDYDRLRPLFYPDASVLLLCFDVTSFNSFDNIFNRWYPEVNHFK  
KVPIIVVGCKTDLCKDKSLVNKLRRNGLEPVTYHRGQEMARSVGAVAYLECSARLHDNVH  
AVFQEAEEVALSSRGRNFWRRITQGFCVVT

>sp|Q9H4E5|RHOJ\_HUMAN Rho-related GTP-binding protein RhoJ OS=Homo sapiens GN=RHOJ PE=1  
SV=1

MNCKEGTDSSCGCRGNDEKKMLKCVVVGDAVGKTCLLMSYANDAFPEEYVPTVFDHYAV  
TVTVGKQHLGLYDTAGQEDYNQLRPLSYPNLTDVFLICFSVNPASVYHNVQEEWVPELK  
DCMPHPYPVVLIGTQIDLRDDPKTLARLLYMKEKPLTYEHGVKLAKAIGAQCYLECSALTQ  
KGLKAVFDEAILTIFHPKKKKKRCSEGHSCCSII

>sp|Q96L33|RHOV\_HUMAN Rho-related GTP-binding protein RhoV OS=Homo sapiens GN=RHOV PE=1  
SV=1

MPPRELSEAEPPPLRAPTPPPRRRSAPPELGKCVLVGDGAVGKSSLIVSYTCNGYPARY  
RPTALDTFSVQVLVDGAPVRIELWDTAGQEDFDRLRSLCYPDLDVFLACFSVVQPSSFQN  
ITEKWLPEIRTHNPQAPVLLVGTQADLRDDVNVLIQLDQGGREGVPVQPQAQGLAEKIRA  
CCYLECSALTQKNLKEVFDSAILSATIEHKARLEKKLNAKGVRTL SRCRWKKFFCFV

>sp|Q9NVN3|RIC8B\_HUMAN Synembryn-B OS=Homo sapiens GN=RIC8B PE=1 SV=2

MDEERALYIVRAGEAGAIERVLDRDYSDKHRATFKFESTDEDKRKKLCEGIFKVLIKDIPT  
TCQVSCLEVLRLISRDKKVLVPVTTKENMQILLRLAKLNELDDSLEKVSEFPVIVESLKC  
LCNIVFNSQMAQQLSLELNLAACLNLRLKCKDRKFINDIKCFDLRLFLLSLLHTDIRS  
QLRYELQGLPLLTQILESAFS IKWTEYESAIDHNGPPLSPQETDCAIEALKALFNVTVD  
SWKVHKESDSHQFRVMAAVLRHCLLIVGPTEDKTEELHSNAVNLLSNVPVSCLDVLCPL  
THEETAQEATTDELPSNKTAEKETVLKNNTMVYNGMNMEAIHVLLNFMKRIDKGSSYR  
EGLTPVLSLLTECSRAHRNIRKFLKDQVLPPLRDVTNRPEVGSTVRNKLVRMLTHVDLGV  
KQIAAEFLFVLCKERVDSLLKYTYGNAAGLLAAGLLAGGRGDNWYSEDEDTDTEEYKN  
AKPKEELLKPMGLKPDGTITPLEEALNQYSVIEETSSDTD

>sp|Q6R327|RICTR\_HUMAN Rapamycin-insensitive companion of mTOR OS=Homo sapiens GN=RICTOR  
PE=1 SV=1

MAAIGRGRSLKNLRVRGRNDSGEENVPLDLTREPSDNLREILQNVARLQGVSNMRKLGHL  
NNFTKLLCDIGHSEEKLGPHYEDI IICLRLALLNEAKEVRAAGLRALRYLIQDSSILQKV  
LKLKV DYLIARCIDIQQSNEVERTQALRLVRKMITVNASLFPSSVTNSLIAGNDGLQER  
DRMVRACIAIICELALQNEPVVALRGGLNTILKNVIDCQLSRINEALITTLHLLNHPKT  
RQYVRADVLERILAPYTD FHYRHSPDTAEGQLKEDREARFLASKMGI IATFRSWAGI IN  
LCKPGNSG IQSLIGVLCIPNMEIRRG LLEVLYDIFRLPLPVVTEEFIEALLSVDPGRFQD  
SWRLSDGFVA AEAKTILPHRARSRPDLMDNYLALILSAFIRNGLLEGLVEVITNSDDHIS  
VRATILLGELLHMANTILPHSHSHHLHCLPTLMNMAASFDIPKEKRLRASAALNCLKRFH  
EMKKGPKPYSLHLDHIIQKAIATHQKRDQYLRVQKDI FIKDTEEALLINLRDSQVLQH  
KENLEWNWNLIGTILKWPNVNLRNYKDEQLHRFVRRLLYFYKPSSKLYANL DLDFAKAKQ  
LTVVGCQFTEFLLESEEDGQGYLEDLVKDIVQWLNASSGMKPERSLQNNGLLTTL SQHYF  
LFIGTLSCHPHGVKMLEKCSV FQCLLNLC SLKNQDHLLKLT VSSLDYSRDGLARVILSKI  
LTAATDACRLYATKHLRVLLRANVEFFNNGI ELLVTQLHDKNKTISSEALDILDEACED  
KANLHALIQMKPALSHLGDKGLLLLRLFLSIPKGF SYLNERGYVAKQLEKWHREYNSKYV  
DLIEEQ LNEALTTYRKPDGDNYVRRSNQRLQRPHVYLP IHLYGQLVHHKTGCHLLEVQN  
IITELCRNV RTPDL DKWEEKIKKLASLWALGNIGSSNWGLNLLQEENVIPDILKLAKQCE  
VLSIRGTCVYVGLIAKTKQGCDILKCHNWDV RHRKHLWPVPDDVEQLCNELSSIPS  
TSLNSESTSSRHNSESESVSSMFILEDDRFSGSSSTSTFFLDINEDTEPTFYDRSGPIK  
DKNSFPFFASSKL VKNRILNSLTLPNKKHRSSSDPKGGKLSSES KTSNRRIRTLTEPSVD  
FNHSDDFTPISTVQKTLQLETSFMGNKHIEDTGSTPSIGENDLKFTKNFGTENHRENTSR  
ERLVESSTSSHMKIRSQS FNTDTTTSGISSMSSSPSRET VGV DATMTDCGSMSTVVS  
TKTIKTSHYLTPQSNHLSLSKNSVSLVPPGSSHTLPRRAQSLKAPSIATIKSLADCNFS  
YTSSRDAFGYATLKR LQQRMHPSLSHSEALASPAKDVLF TDTITMKANSFESRLTPSRF  
MKALSYASLDKEDLLSPINQNTLQRSSSVRSMVSSATYGGSDDYIGLALPVDINDIFQVK  
DIPYFQTKNIPPHDDR GARAF AHDAGGLPSGTGGLVKNSFHLLRQQMSLTEIMNSIHSDA  
SLFLESTEDTGLQEHTDDNCLYCV CIEILGFQPSNQLSAICSHSDFQDIPYSDWCEQTIH  
NPLEVVP SKFSGISGCDGVSQEGSASSTKSTELLGVKTI PDDTPMCRILLRKEVLRLV  
INLSSSVSTKCHETGLLTIKEYPQTFDDICLYSEVSHLLSHCTFRLPCRRFIQELFQDV  
QFLQMHEEA EAVLATPPKQPIVD TSAES

>sp|Q969G6|RIFK\_HUMAN Riboflavin kinase OS=Homo sapiens GN=RFK PE=1 SV=2

MRHLPYFCRGQVVRGFGRGSKQLGIPTANFPEQVVDNLPADISTGIYYGWASVSGSDVHK  
MVV SIGWNPYYKNTKSMETHIMHTFKEDFYGEILNVAIVGYLRPEKNFDSLESLSAIQ  
GDIEEAKRLELPEHLKIKEDNFFQVSKSKIMNGH



>sp|A6NNM3|RIM3B\_HUMAN RIMS-binding protein 3B OS=Homo sapiens GN=RIMBP3B PE=3 SV=3

MAKDSPSPLGASPKKPGCSSPAAAVLENQRRELEKLRAELEAERAGWRAERRRFAARERQ  
LREEAERERRQLADRLRSKWAEQSRRELRLQEQEMQREREAEIRQLLRWKEAEQRQLQQL  
LHRERDGVVRQARELQRQLAEELVNRGHCSRPGASEVSAAQCRCRLQEVLAQLRWQTDGE  
QAARIRYLQAAEVERQLFLKYILAHFRGHPALSGSPDPQAVHSLEEPLPQTSSGSCHAP  
KPACQLGSLDSLAEVGVRSRSLGLVSSACSSSPDGLLSTHASSLDCFAPACSRSLDSTR  
SLPKASKSEERPSSPDTSTPGSRRLSPPPSPLPPPPPSAHRKLSNPRGGEGSESQPCEV  
LTPSPPLGHHEL IKLNWLLAKALWVLARRCYTLQENKQLRRAGCPYQADEKVKRLKVK  
RAELTGLARRLADRARELQETNLRAVSAPIPGESCAGLELCQVFARQRARDLSEQASAPL  
AKDKQIEELRQECHLLQARVASGPCSDLHTGRGGPCTQWLNVRDLDRLQRESQREVLRLQ  
RQLMLQGGNGAWPEAGGQSATCEEVRRQMLALERELEDQRRRECQELGTQAAPARRRGEE  
AETQLQAALLKNAWLAEEENGLQAKTDWVRKVEAENSEVRGHLGRACQERDASGLIAEQL  
LQQAARGQDRQQQLQRDPQKALCDLHPSWKEIQALQCRPGHPPEQPWETSQMPESQVKGS  
RRPKFHARPEDYAVSQPNRDIQEKREASLEESPVALGESASVPQVSETVPASQPLSKKTS  
SQSNSSEGSMMWATVPSSPTLDRDTASEVDDLEPDSVSLALEMGSAAPAAPKLKIFMAQ  
YNYNPFEGPNDHPEGELPLTAGDYIYIFGDMDEDGFYEGELDDGRRGLVPSNFVEQIPDS  
YIPGCLPAKSPDLGPSQLPAGQDEALEEDSLLSGKAQGMVDRGLCMVRVSGSKTEVATEI  
LDTKTEACQLGLLQSMGKQGLSRPLLGTGVLRLMAPMQLHLQNVTTATSANITWVYSSHRH  
PHVVYLDREHALTPAGVSCYTFQGLCPGTHYRVRVEVRLPWDLLQVYWGTMSSVTFTDT  
LLAGPPYPPEVLVERHASPGVLVSWLPVTIDSAGSSNGVQVTGYAVYADGLKVCEVAD  
ATAGSTVLEFSQLQVPLTWQKVSVRTMSLCGESLDSVPAQIPEDFFMCHRPETPPFSYT  
CGDPSTYRVTFPVCQKLSLAPPSAKASPHNPGSCGEPQAKFLEAFFEPPRRQSPVSNL  
GSEGECPSSGAGSQAQELAEAWEGCRKDLLFQKSPQNRPPSVSDQPGEKENCYQHMGTS  
KSPAPGFIHLRTECGPRKEPCQEKAALERVLRQKQDAQGFTPPQLGASQQYASDFHNVLK  
EEQEALCLDLRGTERRERREPEPHSRQGQALGVKRGCLHEPSSALCPAPSAKVIKMPR  
GGPQQLGTGANTPARVFVALSDYNPLVMSANLKAAEEELVFQKRQLLRVWGSQDTHDFYL  
SECNRQVGNIPGRIVAEMEVTGTEQDTRRWRSPAQGHLPVAHLEDFQGLTIPQGSSSLVLQ  
GNSKRLPLWTPKIMIAALDYDPGDGMGGQKGRLALRAGDVVMVYGPMDDQGFYYGELG  
GHRGLVPAHLLDHMSLHGH

>sp|O95153|RIMB1\_HUMAN Peripheral-type benzodiazepine receptor-associated protein 1  
OS=Homo sapiens GN=TSPOAP1 PE=1 SV=2

MEQLTTLPRPGDPGAMEPWALPTWHSWTPGRGGEPSSAAPSIADTPPAALQLQELRSEES  
SKPKGDGSSRPVGGTDPEGAEACLP SLGQQASSSGPACQRPEDEEVEAFLKAKLNMSFGD  
RPNLELLRALGELRQRCAILKEENQMLRKSSFPETEEKVRRLKRKNAELAVIAKRLERA  
RKLQETNLRVVSAPLPRPGTSLELCRKALARQRARDLSETASALLAKDKQIAALQRECRE  
LQARLTLVGKEGPQWLHVRDFDRLLRESQREVLRLQRQIALRNQRETLP LPPSWPPGPAL  
QARAGAPAPGAPGEATPQEDADNLPVILGEPEKEQRVQQLESEL SKKRKKCESLEQEARK  
KQRRCEELELQLRQAQENARLVEENSRLSGRATEKEQVEWENAELRGQLLGVTQERDSA  
LRKSQGLQSKLESLEQVLKHMREVAQRRQQLEVEHEQARLSLREKQEEVRLQQAQAEAQ  
REHEGAVQLLESTLDSMQARVRELEEQCRSQTEQFSLLAQELQAFRLHPGPLDLLTSALD  
CGSLGDCPPPPCCCSIPQPCRGS GPKDLDLPPGSPGRCTPKSSEPAPATLTGVPRRTAKK  
AESLSNSSHSES IHNSPKSCPTPEVDTASEVEELEADSVSLLPAAPEGSRGGARIQVFLA  
RYSYNPFEGPNENPEAELPTAGEYIYIYGNMDEDGFFEGELMDGRRGLVPSNFVERVSD  
DDLTLSPPELADLSHSSGPELSFLSVGGGGSSSGGQSSVGRSQRPPEEDAGDELSLSP

SPEGLGEPPAVPYPRRLVVLKQLAHSVVLAWEPPEQVELHGFHICVNGELRQALGPGAP  
PKAVLENLDLWAGPLHISVQALTSRGSSDPLRCCLAVGARAGVVPSQLRVHRLTATSAEI  
TWVPGNSNLAHAIYLNGECPASPSTYWATFCHLRPGTPYQAQVEAQLPPQGPWEPGWE  
RLEQRAATLQFTTLPAGPPDAPLDVQIEPGSPGILIIISWLPVTIDAAGTSNGVRVTGYA  
IYADGQKIMEVASPTAGSVLVELSQLQLLQVCREVVVRTMSPHGESADSIPAPITPALAP  
ASLPARVSCSPHPSPEARAPLASASPGGDPSSPLQHPAPLGTQEPPGAPPASPSREMA  
KGSHEPPAPCSQEEAGAAVLGTSEERTASTSTLGEKDPGPAAPSLAKQEAEWTAGACP  
ASSSTQGARAQQAPNTEMCQGGDPGSLRPRAEKEDTAELGVHLVNSLVDHGRNSDLSDI  
QEEEEEEEEEEEEELGSRTCSFQKQVAGNSIRENGAKSQPDFCETDSDEEILEQILELP  
LQQFCSKKLFSIPEEEEEEEEEDEEEKSGAGCSSRDPGPPEPALLGLGCDSGQPRRPGQC  
PLSPESSRAGDCLEMPGLVGGSSRRRGGSPEKPPSRRRPPDPREHCSRLSNNGPQAS  
GRLGPTRERGGLPVIEGPRTGLEASGRGLGPSRRCSRGRALEPGLASCLSPKCLEISIE  
YDSEDEQEAGSGGISITSSCYPGDGEAWGTATVGRPRGPPKANSGBKPYPRLPaweKGEp  
ERRGRSATGRAKEPLSRATETGEARGQDGSRRGPQKRGVRVLRPSTAEVPARSPSETL  
AYQHLPVRIFFALFDYDPVSMSPNDAGEEELPFREGQILKVFGDKDADGFYQEGGGRT  
GYIPCNMVAEVAVDSPAGRQQLLQRGYLSPDILLEGSGNGPFVYSTAHTTGPPPKPRRSK  
KAESEGPAQPCGPPKLVPSADLKAPHSMVAADFYNPQESSPNMDVEAELPFRAGDVITV  
FGMDDDGFFYGGELNGRGLVPSNFLGPGPEAGGLDREPRTPAESQRTRRRRVQC

>sp|Q9ULI2|RIMKB\_HUMAN Beta-citrylglutamate synthase B OS=Homo sapiens GN=RIMKB PE=2  
SV=2

MCSSVAAKLWFLTDRIREDYPQKEILRALKAKCEEELDFRAVVMDEVVLTIEQGNLGL  
RINGELITAYPVVVVRVPTPVVQSDSDITVLRHLEKMGCRMLNRPQAILNCVNKFQTFQ  
ELAGHGVPPLDFTSYGGHENFAKMIDEAEVLEFPMVVKNTRGHRGKAVFLARDKHHLADL  
SHLIRHEAPYLFQKYVKESHGRDVRVIVVGGRVVGTMLRCSTDGRMQSNCSLGGVGMCS  
LSEQGKQLATQVSNILGMDVCGIDLMMKDDGSFCVCEANANVGFIADFACNLVDAGIIA  
DYAASLLPSGRLTRRMSLLSVVSTASETSEPELGPPASTAVDNMSASSSSVDSPESTER  
ELLTKLPGGLFNMNQLLANEIKLLVD

>sp|Q969X0|RILP2\_HUMAN RILP-like protein 2 OS=Homo sapiens GN=RILP2 PE=1 SV=1

MEEPPVREEEEEEGEEDERDEVGPEGALGKSPFQLTAEDVYDISYLLGRELMALGSDPR  
VTQLQFKVVRVLEMLEALVNEGSLALEELKMERDHLRKEVEGLRRQSPPASGEVNLGPNK  
MVVDLTDPNRPRFTLQELRDVLQERNKLSQLLVVQEELQCYKSGLIIPREGPGGRREKD  
AVVTSAKNAGRNKEEKTIIKKLFFFRSGKQT

>sp|P31350|RIR2\_HUMAN Ribonucleoside-diphosphate reductase subunit M2 OS=Homo sapiens  
GN=RRM2 PE=1 SV=1

MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTPKT  
KAAAPGVEDEPLLRENPRRFVIFPIEYHDIWQMYKKAESFWTAEVDLSKDIQHWESLK  
PEERYFISHVLAFFAASDGIENENLVERFSQEVQITEARCFYGFQIAMENIHSEMYSLLI  
DTYIKDPKEREFLNAIETMPCVKKKADWALRWIGKEATYGERVVAFAAVEGIFFSGSF  
ASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERVREIIINAVRIE  
QEFLTEALPVKLIGMNCTLMKYIEFVADRLMLELGFSGVFRVENPFDPMENISLEGKTN  
FFEKRVGEYQRMGMSSPTENSFTLDADF

>sp|P30050|R12\_HUMAN 60S ribosomal protein L12 OS=Homo sapiens GN=RPL12 PE=1 SV=1

MPPKFDPNKIKVVYLRCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGRLRITV  
KLTIQNRQAQIEVPSASALIIKALKEPPRDRKKQKNIKHSGNITFDEIVNIARQMRHRS

LARELSGTIKEILGTAQSVGCNVDGRHPHDIIDDINSGAVECPAS

>sp|P29558|RBMS1\_HUMAN RNA-binding motif, single-stranded-interacting protein 1 OS=Homo sapiens GN=RBMS1 PE=1 SV=3

MGKVWKQMQYPQYATYYYPQYLQAKQSLVPAHPMAPPSPSTSSNNSSSSSSNSGWDQLS  
KTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFVDFDSPAAQKAV  
SALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELENMLKPFQGVISTRILRDSSGTS  
RGVGFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNKYIPN  
GRPWHREGEVRLAGMTLTYDPTTAAIQNGFYSPYSIATNRMITQTSITPYIASPVSAYQ  
VQSPSWMQPQPYILQHPGAVLTPSMEHTMSLQASMISPLAQQMSHLSLSTGTYPATS  
AMQGAYLPQYAHMQTTAVPVEEASGQQQVAVETSNDHSPYTFQPNK

>sp|Q6VN20|RBP10\_HUMAN Ran-binding protein 10 OS=Homo sapiens GN=RANBP10 PE=1 SV=1

MAAATADPGAGNPQPGDSSGGGAGGLPSPGEQELSRRLQRLYPANQQETPLPRSWSPK  
DKYNYIGLSQGNLRVHYKGHGKHNKDAASVRATHPIPAACGIYYFEVKIVSKGRDGYMGI  
GLSAQGVNMNRLPGWDKHSYGYHGDDGHSFCSSGTGQPYGPTFTTGDVIGCCVNLINGTC  
FYTKNGHSLGIAFTDLPANLYPTVGLQTPGEIVDANFGQPFLLFDIEDYMREWRAKVQGT  
VHCFPISARLGEWQAVLQNMVSSYLVHHGYCATATAFARMTETPIQEEQASIKNRQKIQK  
LVLEGRVGEAIETTQRFYFPGLEHNPNLLFMLKCRQFVEMVNGTDSEVRSLSSRSPKSQD  
SYPGSPSLSPRHGPPSSSHMHNTGADSPSCSNGVASTKSKQNHSKYPAPSSSSSSSSSSSS  
SSPSSVNYSESNDSTKSQHHSSTSNQETSDSEMEMEAEHYPNGVLGSMSTRIVNGAYK  
HEDLQTDSESSMDRHPRRQLCGGNQAATERIILFGRELQALSEQLGREYGKNAHTEMLQ  
DAFSLLAYSDPWSCPVGQQLDPIQREPVCAALNSAILESQNLPKQPPLMLALGQASECLR  
LMARAGLGSCSFARVDDYLH

>sp|POC7P1|RBY1D\_HUMAN RNA-binding motif protein, Y chromosome, family 1 member D OS=Homo sapiens GN=RBMY1D PE=2 SV=1

MVEADHPGKLFIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFAFITFENPAD  
AKNAAKDMNGKSLHGKAIKVEQAKKPSFQSGGRRRPPASSRNRSPSGSLRSARGSRGGTR  
GWLPSQEGHLDDGGYTPDLKMSYSRGLIPVKRGPSSRSGGPPPKSAPSAVARNSNWMGS  
QGPMSSQRRENYGVPPRRATISSWRNDRMSTRHDGYATNDGNHPSCQETR DYAPPSRGYAY  
RDNGHSNRDEHSSRGYRNHRSSRETRDYAPPSRGHAYRDYGHSSRDESYSGYRNRRSSR  
ETREYAPPSRGHYRDYGHSSRHESYSGYRNHPSSRETRDYAPPHRDYAYRDYGHSSWD  
EHSSRGYSYHDGYGEALGRDHSEHLSGSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA  
YSNTRDRYGRSWESYSSCGDFHYCDREHVCRKDQRNPPSLGRVLPDPREACGSSSYVASI  
VDGGESRSEKGDSSRY

>sp|Q9P258|RCC2\_HUMAN Protein RCC2 OS=Homo sapiens GN=RCC2 PE=1 SV=2

MPRKAAAAAWEPPSSNGTARAGPRKRGGPAGRKREPERCSSSSGGGSSGDEDGLELD  
GAPGGGKRAARPATAGKAGGAADVITEPEHTKERVKLEGSCKKGQLLIFGATNWDLIGRK  
EVPKQQAAYRNLGQNLWGPHRYGCLAGVRVRTVVSGSCAAHSLITTEGKLWSWGRNEKG  
QLGHGDTKRVEAPRLIEGLSHEVIVSAACGRNHTLALTETGSVFAFGENKMGQLGLGNQT  
DAVPSPAQIMYNGQPI TKMACGAEFMIMDCCKGNLYSFGCPEYQQLGHNSDGKFIARAQR  
IEYDCELVPRRVAIFIEKTKDGQILPVPNVVVRDVACGANHTLVLDSQKRVSFSGWFGGYG  
RLGHAEQKDEMVPRLVKLDFPGRGASQIYAGYTCSFAVSEVGGGLFFWGATNTSRESTMY  
PKAVQDLCGWRIRSLACGKSSIIVAADESTISWGPSPTFGELGYGDHKPKSSTAAQEVKT  
LDGIFSEQVAMGYSHSLVIARDESETEKEKIKKLPEYNPRTL

>sp|Q8IZ40|RCOR2\_HUMAN REST corepressor 2 OS=Homo sapiens GN=RCOR2 PE=1 SV=2

MPSVMEKPSAGSGILSRRAKTVPNGGQPHSEDDSSSEEEHSHDSMIRVGTTYQAVIPECK  
PESPARYSNKELKGMVLVSPNHCVSDAKLDKYIAMAKEKHGYNIEQALGMLLWHKHDEK  
SLADLANFTFPDEWTVEDKVLFEQAFGFHGKCFQRIQQMLPDKLIPSLVKYYSWKTR  
SRTSVMDRQARRLGGRKDKEDSDELEEGRGVSEGEPPADPKREPLSRPLNARPGPGK  
KEVQVSQYRHHPLRTRRRPPKGMYSPEGLTAVSGSPDLANLTLRGLDSQLISLKRQVQS  
MKQTNSSLRQALEGGIDPLRPPEANTKFNSRWTDEQLLAVQAIRRYGKDFGAIAEVIGN  
KTLTQVKTFFVSYRRRNFLEEVLQEWAEQDGAPGAPVPMEEARRGAPLPAPALEEDDEV  
QITSVSTSVPRSVPPAPPPPPPTSLSQPPPLLRPPLPTAPTLLRQPPPLQQGRFLQPRL  
APNQPPPLIRPALAAPRHSARPGPQPPPTLIGTPLEPPAPSL

>sp|P61575|RECK8\_HUMAN Endogenous retrovirus group K member 8 Rec protein OS=Homo sapiens  
GN=ERVK-8 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSAGVLNSSEETATIENG

>sp|O95980|RECK\_HUMAN Reversion-inducing cysteine-rich protein with Kazal motifs OS=Homo  
sapiens GN=RECK PE=1 SV=1

MATVRASLRGALLLLAVAGVAEVAGGLAPGSAGALCCNHSKDNQMCRDVCEQIFSSKSE  
SRLKHLQRAPDYCPETMVEIWNCMNSSLPGVFKKSDGWVGLGCCELAIALCQRACKQA  
SSKNDISKVCRKEYENALFSCISRNEGVSVCYAGHHTNCREYCAIFRTDSSPGPSQI  
KAVENYCASISPQLIHCVNNTQSYPMRNPDSLYCCDRAEDHACQNAKRIILMSKKTEM  
EIVDGLIEGCKTQPLPQDPLWQCFLSSQSVHPGVTVHPPSTGLDGAKLHCCSKANTST  
CRELCTKLYSMSWGNTQSWQEFDRFCEYNPVEVSMLTCLADVREPCQLGCRNLTYCTNFN  
NRPTELFRSCNAQSDQGAMNDMKLWEKGSIKMPFINIPVLDIKKCQPEMWKAIACSLQIK  
PCHSKSRGSIICKSDCVEILKCGDQNKFPEDHTAESICELLSPTDDLKNCIPLDYLRLP  
STLGNIVEEVTHPCNPNPCANELCEVNRKGCPSGDPCLPYFCVQGCKLGEASDFIVRQG  
TLIQVPSSAGEVGKYKICSCGQSGLENCMEMHCIDLQKSCIVGGKRKSHGTSFSIDCNV  
CSCFAGNLVCSTRCLSEHSSDDRRTFTGLPCNCADQFVPVCGQNGRTYPSACIARCVG  
LQDHQFEFGSCMSKDPNPNPCQKNQRCIPKPQVCLTTFDKFGCSQYECVPRQLACDQVQ  
DPVCDTDHMEHNNLTLYQRGKSLSYKGPCQPFCRATEPVCGHNGETYSSVCAAYSDRVA  
VDYYGDCQAVGLSEHSSVAECASVKCPSLLAAGCKPIIPGACPLCAGMLRVLFDKEK  
LDTIAKVTNKKPITVLEILQKIRMHVSVPCDVFGYFSIESEIVILIIIPVDHYPKALQIE  
ACNKEAEKIESLINSDSPTLASHVPLSALIIISQVQVSSSVPSAGVRARPSCHSLLLPLSL  
GLALHLLWTYN

>sp|P78563|RED1\_HUMAN Double-stranded RNA-specific editase 1 OS=Homo sapiens GN=ADARB1  
PE=1 SV=1

MDIEDEENMSSSTDVKENRNLNVSPKDGSTPGPEGSQLSNGGGGGPGRKRPLEEGSN  
GHSKYRLKKRRKTPGPVLPKNALMQLNEIKPGLQYTLLSQTGPVHAPLFVMSVEVNGQVF  
EGSGPTKKKAKLHAAEKALRSFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDTLFNGF  
ETPDKAEPFVYGSNGDSSFSSGDLSSLASVPASLAQPPLPVLPPFPSPGKNPVMIL  
NELRPLKLYDFLSESGESHAKSFVMSVVVDGQFFEGSGRNKKLAKARAAQSALAAIFNLH  
LDQTPSRQPIPEGLQLHLPQVLADAVSRLVLGKFGDLTDNFSSPHARRKVLAVVMTTG  
TDVKDAKVISVSTGTCINGEYMSDRGLALNDCHAEIISRRSLLRFLYTQLELYLNNKDD  
QKRSIFQKSERGGFRLKENVQFHLYISTSPCGDARIFSPHEPILEGSRSYTAQGVQWCNH  
GSLQPRPPGLSDPSTSTFQAGTTEPADRHPNRKARGQLRTKIESGEGTIPVRSNASIQ  
TWDGVLQGERLLTMSCSDKIARWNVVGIQGSLLSIFVEPIYFSSIILGSLYHGDHLSRAM

YQRISNIEDLPPLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDSAIEVINATTGKDE  
LGRASRLCKHALYCRWVRVHGKVPShLLRSKITKPNVYHESKLAKEYQAAKARLFTAFI  
KAGLGAWVEKPTQDQFSLTP

>sp|Q9BRK0|REEP2\_HUMAN Receptor expression-enhancing protein 2 OS=Homo sapiens GN=REEP2  
PE=1 SV=2

MVSWIISRLVVLIFGTLYPAYSSYKAVKTKNVKEYVKWMMYWIVFAFFTTAETLTDIVLS  
WFPFYFELKIAFVIWLLSPYTKGSSVLYRKVFHPTLSNKEKEIDEYITQARDKSYETMMR  
VGKRGLNLAANAAVTAAAKGVLSEKLRSFSMQDLTLIRDEDALPLQRPDGRLRPSPGSLL  
DTIEDLGDDPALSRSSSTNPADSRTEASEDDMGDKAPKRAKPIKKAPKAEPLASKTLKTR  
PKKKTSGGGDSA

>sp|Q8IUW5|RELL1\_HUMAN RELT-like protein 1 OS=Homo sapiens GN=RELL1 PE=1 SV=1

MAPRALPGSAVLAFAVFGAVSSPLVAPDNGSSRTLHSRTETTPSPSNDTGNGHPEYIA  
YALVPVFFIMGLFGVLICHLLKKKGYRCTTEAEQDIEEEKVEKIELNDSVNENS DTVGQI  
VHYIMKNEANADVLKAMVADNSLYDPESVTPSTPGSPPVSPGPLSPGGTPGKHVCGHHL  
HTVGGVVERDVCHRCRHKRWFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKVEHKSQK  
ERRSLMSVSGAETVNGEVPATPVKRERSGTE

>sp|Q6BDI9|REP15\_HUMAN Rab15 effector protein OS=Homo sapiens GN=REP15 PE=1 SV=4

MGQKASQQLALKDSKEVPVCEVVSEAIVHAAQKLKEYLGFYPPSKLCPAANTLNEIFL  
IHFITFCQEKGVDEWLTTTKMTKHQAFLFGADWIWTFWGSNKQIKQLAVQTLQMSSPPP  
VESKPCDLSNPESRVEESSWKKSRFDKLEEFCLIGEDCLGLFIIFGMPGKPKDIRGVVL  
DSVKSQMVRSHPGGKAVAQFVLETEDCVFIKELLRNCLSKKDGLREVGVYISIL

>sp|Q9BWE0|REPI1\_HUMAN Replication initiator 1 OS=Homo sapiens GN=REPIN1 PE=1 SV=1

MLERRCRGPLAMGLAQPRLLSGPSQESPQTLGKESRGLRQGTSAQSGAQAPGRAHRCA  
HCRRHFPGWVALWLHTRRCQARLPLCPECGRRFRHAPFLALHRQVHAAATPDLGFACHL  
CGQSFRGWVALVLHLRAHSAAKRPIACPKCERRFWRRQLRAHLRRCHPPAPEARPFICG  
NCGRSFAQWDQLVAHKRVHVAEALAEAAKALGPRPRGRPAVTAPRPGDAVDRPFQCAC  
CGKRFRHKPNLIAHRRVHTGERPHQCPECGKRFTNKPYLTSRRRIHTGEKPYPCKECGRR  
FRHKPNLLSHSKIHKRSESAQAPGPGSPQLPAGPQESAAEPTPAVPLKPAQEPPPGAP  
PEHPQDPIEAPPSLYSCDDCGRSFRLERFLRAHQHTGERPFTCAECGKNFGKKTHLVA  
HSRVHSGERPFACEECGRRFSQGSHLAAHRRDHAPDRPFVCPDCGKAFRHKPYLAAHRR  
HTGEKPYVCPDCGKAFSQKSNLVSHRRRIHTGERPYACPDERSFSQKSNLITHRKSIRD  
GAFCCAICGQTFDDEERLLAHQKKHDV

>sp|Q96D71|REPS1\_HUMAN RalBP1-associated Eps domain-containing protein 1 OS=Homo sapiens  
GN=REPS1 PE=1 SV=3

MEGLTSDAEQKYSDLF SYCDIESTKKVVVNGRVLELFRAAQLPNDVVVLQIMELCGATR  
LGYFGRSQFYIALKLVAQAQSGFPLRVESINTVKDLPLPRFVASKNEQESRHAASYSSDS  
ENQGSYSGVIPPGRGQVKKGSVSHDTVQPRTSADAQEPASPVVSPQQSPPTSPHTWRK  
HSRHPSGGNSERPLAGPGFWSFGAEQSGSSAGDAVWSGHSPPPQENWVSFADTPPTS  
TLLTMHPASVQDQTTVRTVASATTAEIRRQSSSYDDPWKITDEQRQYYVNQFKTIQPD  
LNGFIPGSAAKEFFTKSKLP ILELSHIWELSDFDKDGALTLDEFCAAFHLVVARKNYDLP  
EKLPESLMPKLIDLEDSADVGDPGEVGYSGSPAEAPPSKSPSMPSLNQTWPELNQSSEQ  
WETFSESSSSQTLTQFDSNIAPADPDTAIVHPVPIRMTPSKIHMQEMELKRTGSDHTNP  
TSPLLVKPSDLL ENKINSSVKFASGNTVADGYSSSDSFTSDPEQIGSNVTRQRSHSGTS  
PDNTAPPPPPRPQPSHSRSSSLDMNRTFTVTGQQQAGVVAHPPAVPPRPQPSQAPGPA

VHRPVDADGLITHTSTSPQQIPEQPNFADFSQFEVFAASNVNDEQDDEAEKHPEVLPAEK  
ASDPASSLRVAKTDSKTEEKTAASAPANVSKGTTPLAPPPKPVRRRLKSEDELREPEVDEH  
TQKTGVLAASVLAASQSPISPRSVGDKKAIQASIRRNKETNTVLARLNSELQQQLKDVLEER  
ISLEVQLEQLRPFSL

>sp|Q92785|REQU\_HUMAN Zinc finger protein ubi-d4 OS=Homo sapiens GN=DPF2 PE=1 SV=2

MAAVVENVVKLLGEQYYKDAMEQCHNYNARLCAERSVRLPFLDSQTGVAQSNCYIWMEKR  
HRGPGLASGQLYSYPARRWRKKRRRAHPPEDPRLSFPSIKPDTQTLKKEGLISQDGSSE  
ALLRTDPLEKRGAPDPRVDDSLGEFPVTNSRARKRILEPDDFLDDLDEDEYEDTPKRR  
GKGKSKGKGVGSARKKLDASILEDKPYACDICGKRYKNRPGLSYHYAHSHLAEEEGED  
KEDSQPPTPVSQRSEEQKSKKGPDLALPNNYCDFCLGDSKINKKTGQPEELVSCSDCGR  
SGHPSCQLQFTPVMAAVKTYRWQCIECKCCNICGTSENDDQLLFCDDCDRGYHMYCLTPS  
MSEPPEGSWSCHLCLDLLKEKASIYQNQNSS

>sp|Q9P2R6|RERE\_HUMAN Arginine-glutamic acid dipeptide repeats protein OS=Homo sapiens  
GN=RERE PE=1 SV=2

MTADKDKDKKEKDRDRDREREKRDKARESENSRPRRSCTLEGGAKNYAESDHSEDED  
NDNNSATAEESTKKNNKKPPKKKSRYERTDTGEITSYITEDDVVYRPGDCVYIESRRPNT  
PYFICSIQDFKLHNSQACCRSPALCDPPACSLPVASQPPQHLSEAGRGPVGSKRDL  
LMNVKWWYRQSEVPDSVYQHLVQDRHNENDSGRELVIDPVIKNRELFISDYVDTYHAAA  
LRGKCNISHFSDIFAAREFKARVDSFFYILGYNPETRRLNSTQGEIRVGPSHQAKLPDLQ  
PFPSPDGDTVTQHEELVWMPGVNDCLLMLRAARSMAAFAGMCDGGSTEDGCVAASRDD  
TTLNALNTLHESGYDAGKALQRLVKKPVPKLIEKCWTEDEVKRFVKGLRQYGNFFRIRK  
ELLPNKETGELITFYWWKKTPEAASSRAHRRHRRQAVFRRIKTRTASTPVNTPSRPPSS  
EFLDLSSASEDDFDESEDELKGYACRHCFTTTSKDWHHGGRENILLCTDCRIHFKKYG  
ELPPIEKVPDPPPFMFKPVKEEDDGLSGKHSMTRRSRGSMSTLRSGRKKQPASPDGRTS  
PINEDIRSSGRNSPSAASTSSNDSKAETVKKSAKKVKEEASSPLKSNKRQREKVASDTEE  
ADRTSSKTKTQEISRPNSPSEGESESSDSRSVNDEGSSDPKDIDQDNRESTSPSIPSPQD  
NESDSDSSAQQQMLQAQPPALQAPTGVTPAPSSAPPGTPQLPTPGTPSATAVPPQGSPT  
ASQAPNQQAAPTAPVPHTHIQAPALHPQRPPSPHPPHPSHPPLQLPTGSAGQPSAPS  
HAQPPLHGQGPSPHSLQAGPLLQHPGPPQPFGLPPQASQQAPLGTSPAAAYPHTSLQL  
PASQSALQSQQPPREQLPPAPLAMPPIKPPPTTIPQLPAPQAHKHPHLSGSPSPFSMN  
ANLPPPPALKPLSSLSTHPPSAHPPPLQLMPQSQPLPSSPAQPPGLTQSQNLPPPPASH  
PPTGLHQVAPQPPFAHQHPFVPGGPPPITPPTCPSTSTPPAGPGTSAQPPCSGAAASGGSI  
AGGSSCPLPTVQIKEEALDDAEEPESPPPPRSPSPSEPTVVDTPSHASQSARFYKHLDRG  
YNSCARTDLYFMPLAGSKLAKKREEAIEKAKREAEQKAREEREREKEKEKERERERERER  
EAERAAKASSAHEGRLSDPQLSGPGHMRPSFEPPTTIAAVPPYIGPDTPALRTLSEYA  
RPHVMSPTNRNHPFYMLNPTDLLAYHMPGLYNVDPTIRERELREREIREREIRERELR  
ERMKPGFEVKKPELDPLHPAANPMEHFARHSALTIPPTAGPHPFASFHPGLNPLERERLA  
LAGPQLRPEMSYPDLAAERIHAERMASLTSPLARLQMFNVTPHHHQSHIHSHLHLHQ  
QDPLHQGSAGPVHPLVDPLTAGPHLARFPYPPGTLPNPLLQPPHEHEMLRHPVFGTPYP  
RDLPGAIPPPMSAAHQLQAMHAQSAELQRLAMEQQWLHGHPMHGGHLPSQEDYYSRLKK  
EGDKQL

>sp|P27694|RFA1\_HUMAN Replication protein A 70 kDa DNA-binding subunit OS=Homo sapiens  
GN=RPA1 PE=1 SV=2

MVGQLSEGAIAAIMQKGDNTIKPILQVINIRPITTGNSPPRYRLMSDGLNTLSSFMLAT

QLNPLVEEEQLSSNCVCQIHRFIVNTLKDGRRVVILMELEVLKSAEAVGVKIGNPVYPYNE  
GLGQPQVAPPAPAASPAASSRPQPQNGSSGMGSTVSKAYGASKTFGKAAGPSLSHTSGGT  
QSKVVPPIASLTPYQSKWTICARVTNKSQIRTSNSRGEGLFSLELVDESGEIRATAFNE  
QVDKFFPLIEVNKVYYFSKGLTKIANKQFTAVKNDYEMTFNNETSVMPCEDDHHLPTVQF  
DFTGIDDLNENKSDSLVDIIGICKSYEDATKITVRSNNREVAKRNIYLMDSGKVVTATL  
WGEDADKFDGSRQPVLAIKGARVSDFGGRSLSVLSSSTIIANPDIPAYKLRGWFDAEGQ  
ALDGVSIISDLKSGGVGSNTNWKTLYEKSENLGQGDKPDYFSSVATVVYLRKENCMYQA  
CPTQDCNKKVIDQQNGLYRCEKCDTEFPNFKYRMILSVNIADFQENQWVTCFQESAEAIL  
GQNAAYLGELKDKNEQAFEEVFQANFRSFI FRVRVKVETYNDSEIRIKATVMDVKPVDYR  
EYGRRLVMSIRRSALM

>sp|P40938|RFC3\_HUMAN Replication factor C subunit 3 OS=Homo sapiens GN=RFC3 PE=1 SV=2

MSLVWDKYRPCSLGRLDYHKEQAAQLRNLVQCGDFPHLLVYGPSGAGKKTRIMCILRELY  
GVGVEKLRIEHTITTPSKKKIEISTIASNYHLEVNPSDAGNSDRVVIQEMLKTVAQSQQ  
LETNSQRDFKVLLTEVDKLTDAQHALRRTMEKYMSTCRLILCCNSTSKVIPPIRSRCL  
AVRVPAPSIEDICHVLSTVCKEGLNLPQLAHLRAEKSCRNLKALLMCEACRVQQYPF  
TADQEIPETDWEVYLRETANAIVSQQTPQRLLEVRGRLYELLTHCIPPEIIMKGLLSELL  
HNCDGQLKGEVAQMAAYYEHRLQLGSKAIYHLEAFVAKFMALYKKFMEDGLEGMMF

>sp|Q9BXF6|RFIP5\_HUMAN Rab11 family-interacting protein 5 OS=Homo sapiens GN=RAB11FIP5  
PE=1 SV=1

MALVRGAEPAGPSRWLPHTVQVTVLRRGLRGKSSGAGSTSDAYTVIQVGREKYSTSVV  
EKTHGCPWERECSFELPPGALDGLLRAQEADAGPAPWAASSAAACELVLTMMHRSILGV  
DKFLGQATVALDEVFGAGRAQHTQWYKLHSPGKKEKERGEIEVTIQFTRNNLSASMFDL  
SMKDKPRSPFSKIRDKMKGKKKYDLESASAILPSSAIEDPDLGSLGKMGAAGFFLRNKL  
RKSSLTQSNTSLGSDSTLSSASGSLAYQGPAGELLTRSPSRSSWLSTEGGRDSAQSPKLF  
THKRTYSDEANQMRVAPPRALLDLQGHLDAA SRSSLCVNGSHIYNEEPQGPVRHRSSISG  
SLPSSGSLQAVSSRFSEEGPRSTDDTWPRGSRSSSSEAVLGQEELSAQAKVLAPGASHP  
GEEGARLPEGKPVQVATPIVASSEAVAEEGARKEERKPRMGLFHFFFHQLSRSELGRR  
SSLGEKGGPILGASPHSSSGEEKAKSSWFGLEAKDPTQKPSHPVKPLSAAPVEGSPD  
RKQSRSSL SIALSSGLEKLTVTSGSIQPVTPAQAGQMVDTKRLKDSAVLDQSAKYHYL  
THDELISLLLQRERELSQRDEHVQELESYIDRLLVRIMETSPTLLQIPPGPPK

>sp|A6NFN3|RFOX3\_HUMAN RNA binding protein fox-1 homolog 3 OS=Homo sapiens GN=RBOX3 PE=2  
SV=4

MAQPYPPAQYPPPPQNGIPA EYAPPPPHPTQDYSGQTPVPTEHGMTLYTPAQTHPEQPGS  
EASTQPIAGTQTPVQTEAAQTD SQPLHPSDPTKQPKRLHVSNI PFRFRDPDLRQMFG  
QFGKILDVEIIFNERGSKGFGVTFETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN  
KKTGNPYTNGWKLNPVVGAVYGPEFYAVTGFPYPTTGTAVAYRGAHLRGRGRAVYNTFRA  
APPPPIPTYGAVVYQDGFYGA EYGGYAA YRYAQPAAAAAAYS DSYGRVYAAADPYHHT  
IGPAATYSIGTM

>sp|Q52LD8|RFTN2\_HUMAN Raftlin-2 OS=Homo sapiens GN=RFTN2 PE=2 SV=3

MGCGLRKLEDPDSSPGKIFSTLKRQVETKTEFAYEYVLLDFTLQASSNPEVIKINSIL  
DIVTKVENYYLKYIVGAIHPVIQPVGQRKHL PASYL YRVLLRLKLSPKNSAAPSGQRR  
PRLVIEECPLTSEAQTNDAAKELIEKINVA AKRGMKFVGFISQHYSKFCNGTNHDGDI  
ESMLHVRHGS DENC RSWNEGTLSGQSSESGIEEELHHESGQYQMEQNGSPTSSKSRKGEA  
SDNKLYTVFNAFDDSTSWAYQEGILSMKVTRKGSVISTLDADWLELTTFYKQGLSLID

SFVFWETSKGEHLPKSLEGFFIYEEEGSGVPGSSRKGNDAIVVEQWTVIEGCEIKTDYGP  
LLHTLAEFGWLLTSVLPVLRHDSEGNLATKQIVFLQRPVMWNSAAQTPDKKASRHIKG  
EDKNKATSRSIGLDTSSQPAESRHLPEECRLSPSRECWTKEGRLAQHNSFSGFSSSDNV  
LREDDGQFDQEDGVTQVTCM

>sp|Q6PCD5|RFWD3\_HUMAN E3 ubiquitin-protein ligase RFWD3 OS=Homo sapiens GN=RFWD3 PE=1  
SV=3

MAHEAMEYDVQVQLNHAEEQQPAPAGMASSQGGPALLQVPVADVSSQGVPSILQPAPAEV  
ISSQATPPLLQPAPQLSVDLTEVEVLGEDTVENINPRTSEQHRQSGDGNHTIPASSLHSM  
TNFISGLQRLHGMLEFLRPSSSNHSGVPMRTRRRVSASRRARAGGSQRDTSARLRAPLDA  
YFQVSRTQPDLPATTYDSETRNPVSEELQVSSSSSDSDSSAEYGGVVDQAEESGAVILE  
EQLAGVSAEEVTCIDGGKTLPKQSPQKSEPLLPSASMDDEEGDTCTICLEQWTNAGDH  
RLSALRCGHLFGYRCISTWLKGQVRKCPQCCKARHSDIVVLYARTLRALDTSEQERMKS  
SLLKEQMLRKQAELESAQCRLQLQVLTDKCTRLQRRVQDLQKLTSHQSNLQQPRGSQAW  
VLSCSPSSQGQHKHKYHFQKTFVTSQAGNCRIMAYCDALSCLVISQSPQASFLPGFGVK  
MLSTANMKSSQYIPMHGKQIRGLAFSSYLRLGLLSASLDNTIKLTSLETNTVVQTYNAGR  
PVWSCCWCLDEANYIYAGLANGSILVYDVRNTSSHVQELVAQKARCPLVSLSYMPRAASA  
AFPYGGVLAGTLEDASFWEQKMDFSHWPHVLPLEPGGCIDFQTENSSRHCLVTYRDPKNH  
TTIRSVLMEMSYRLDDTGNPICSCQPVHTFFGGPTCKLLTKNAIFQSPENDGNILVCTGD  
EAANSALLWDAASGSLQLDQTDQPVLDICPFEVNRNSYLATLTEKMVHIYKWE

>sp|P48380|RFX3\_HUMAN Transcription factor RFX3 OS=Homo sapiens GN=RFX3 PE=1 SV=2

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EGSDTVYTNGAIRTTTYPYTETQMYSQNTGGNYFDTQGSSAQVTTTVSSHSMVGTGGIQM  
GVTGGQLISSGGTYLIGNSMENSGHSVTHTRASPATIEMAIETLQKSDGLSTHRSSLL  
NSHLQWLLDNYETAEGVSLPRSTLYNHLYRHCQEHLDPVNAASFGLIRSIIFMGLRTRR  
LGTRGNSKYHYGIRVKPDSPLNRLQEDMQYMAMRQQPMQKQRYKPMQKVDGVADGFTG  
SGQQTGTSVEQTVIAQSQHHQQFLDASRALPEFGEVEISSLPDGTTFEDIKSLQSLYREH  
CEAILDVVVNLQFSLIEKLWQTFWRYSPSTPTDGTITESSNLSEIESRLPKAKLITLCK  
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MIQTKVAAVSAFAQTLRRYTSLNHLAQAARAVLQNTSQINQMLSDLNRVDFANVQEQASW  
VCQCDDNMVQRLETDFKMTLQQQSTLEQWAAWLDNVMQALKPYEGRPSFPAARQFLK  
WSFYSSMVIRDLTLRSAASFGSFHLIRLLYDEYMFYLVHRVAQATGETPIAVMGEFGDL  
NAVSPGNLDKDEGEVESEMDEELDDSEPQAKREKTELSQAFPVGCMQPVLETGVQPSL  
LNPIHSEHIVTSTQTIQCSATGNTYTAV

>sp|Q96D21|RHES\_HUMAN GTP-binding protein Rhes OS=Homo sapiens GN=RASD2 PE=1 SV=1

MMKTLSSGNCTLSVPAKNSYRMVVLGASRVGKSSIVSRFLNGRFEDQYPTIEDFHRKVY  
NIRGDMYQLDILDTSGNHFPFAMRRLSILTGDVFILVFSLDNRESFDEVKRLQKQILEVK  
SCLKNKTKEAAELPMVICGNKNDHGELCRQVPTTEAELLVSGDENLAYFEVSARKNTNVD  
EMFYVLFMAKLPHEMSPALHRKISVQYGDAFHPRPFCMRRVKEMDAYGMVSPFARRPSV  
NSDLKYIKAKVLRREGQARERDKCTIQ

>sp|A1A4S6|RHG10\_HUMAN Rho GTPase-activating protein 10 OS=Homo sapiens GN=ARHGAP10 PE=1  
SV=1

MGLQPLEFSDCYLDSPWFRERIRAHEAELERTNKFIKELIKDGKNLIAATKSLSVAQRKF  
AHSLRDFKFEFIGDAVTDDERCIDASLREFSNFLKNLEEQREIMALSVTETLIKPLEKFR  
KEQLGAVKEEKKKFDKETEKNYSLIDKHLNLSAKKKDShLQEADIQVEQNRQHFYELSLE



YVCKLQEIQRKKFEFVEPMLSFFQGMFTFYHQGHELAKDFNHYKMELQINIQNTRNRFE  
GTRSEVEELMNKIRQNP KDHKRASQFTAEGYLYVQEKRPAPFGSSWVKHYCMYRKAACKF  
NMIPFEHRSGGKLDGEVFFLKECTKRHTDSIDRRFCFDIEAADRPGVSLTMQAFSEEER  
KQWLEALGGKEALSHSFNTAIIPRPEGNAQLDKMGFTIIRKCISAVETRGINDQGLYRVV  
GVSSKVQRLLSMLMDVKTCEVDLENSADWEVKTITSALKQYLRSLEPLMTYELHGDFI  
VPAKSGSPESRVNAIHFLVHKLPEKNKEMLDILVKHLTNVSNHSKQNLMTVANLGVVFGP  
TLMRPQEETVAALMDLKFNIVVEIL IENHEKIFRTPPD TTFPEPTCLSASPPNAPPRQS  
KRQGQRTRKRPVAVYNLCLEEDGDNYPYPSKEDTPTSSLDLSSPSPVTTAVPGPPGPDKN  
HLLADGGSFGDWASTIPGQTRSSMVQWLN PQSPTTSSNSAVTPLSPGSSPFPFSPPATV  
ADKPPEIRSRRKARAVYPCEAEHSSELSFEIGAIFEDVQTSREPGWLEGT LNKGRLIPQ  
NYVKLL

>sp|Q8IWW6|RHG12\_HUMAN Rho GTPase-activating protein 12 OS=Homo sapiens GN=ARHGAP12 PE=1  
SV=1

MKMADRSGKIIPGQVYIEVEYDYEYEA KDRKIVIKQGERYILVKKTNDDWWQVKPDENSK  
AFYVPAQYVKEVTRKALMPVKQVAGLPNNSTKIMQSLHLQRSTENVNKLPELSSFGKPS  
SSVQGTGLIRDANQNFGPSYNQGQTVNLSLDLTHNNGKFNNDSHSPKVSSQNRTRSFGHF  
PGPEFLDVEKTSFSQEQSCDSAGEGSERIHQDSESGDELSSSSTEQIRATTPPNQGRPDS  
PVYANLQELKISQSALPPLPGSPATQINGEWETHKDSSGRCYYYNRGTQERTWKPPRWTR  
DASISKGDFQNP GDQELLSSEENYYSTSYSQSDSQCGSPPRGWEELDERGHTLYTSDYT  
NEKWLKHVDDQGRQYYSADGSRSEWELPKYNASSQQQREI IKSRLDRRLQEP IVLTKW  
RHSTIVLDTNDKESPTASKPCFPENESSPSPKHQDTASSPKDQEKYGLLNVT KIAENGK  
KVRKNWLSWAVLQGSSLLFTKTQGSSTSWFGSNQSKPEFTVDLKGAT IEMASKDKSSKK  
NVFELKTRQGETELLIQSDNDTVINDWFKVLSSTINNQAVETDEGIEEE IPDSPGIEKHDK  
EKEQKDPKKLRSFKVSSIDSSEQKTKKNLKKFLTRRPTLQAVREKGYIKDQVFGSNLAN  
LCQRENGTVPKFVKLCIEHVEEHGLDIDGIYRVSGNLAVIQKLRF AVNHDEKLDLND SKW  
EDIHVTGALKMFFRELPEPLFTFNHFNDFVNAIKQEPRQ RVAAVKDLIRQLPKPNQDTM  
QILFRHLRRVIENGEKNRMTYQSIAIVFGPTLLKPEKETGNIAVHTVYQNQIVELILLEL  
SSIFGR

>sp|Q53QZ3|RHG15\_HUMAN Rho GTPase-activating protein 15 OS=Homo sapiens GN=ARHGAP15 PE=1  
SV=2

MQKSTNSDTSVETLNSTRQGTGAVQMRIKNANSHHDRLSQSKSMILTDVGKVTEPISRHR  
RNHSQHILKDVIPPLEQLMVEKEGYLQKAKIADGGKKLRKNWSTSWIVLSSRRIEFYKES  
KQQALSNMKTGHKPESVDLCGAHIEWAKESSRKNVFQITTVSGNEFLLQSDIDFIILDW  
FHAIKNAIDRLPKDSSCPSRNLELFKIQRSSSTELL SHYSDIKEQKPEHRKSLMFRLLHH  
SASDTSDKNRVKSRLKKFITRRPSLKTLEKGLIKDQIFGSHLHKVCERENSTVPWFVKQ  
CIEAVEKRGLDVGDIYRVSGNLATIQKLRFIVNQEELNLDDSQWEDIHVVTGALKMFFR  
ELPEPLFPYSFFEQFVEAIKKQDNNTRIEAVKSLVQKLPPPNRDTMKVLFGHLTKIVAKA  
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>sp|P42331|RHG25\_HUMAN Rho GTPase-activating protein 25 OS=Homo sapiens GN=ARHGAP25 PE=1  
SV=2

MSLKLPRNWDFNLKVEAAKIARSRSVMTGEQMAAFHPSSTPNPLERPIKMGWLKKQRSIV  
KNWQQRVFLRAQQLYYKDEEDTKPQGCMYLPGCTIKEIATNP EEAGKFVFEIIPASWD  
QNRMGQDSYVLMASQAEMEEVWKFLRRVAGTPCGVFGQRLDET VAYEQKFGPHLVPILV  
EKCAEF ILEHGRNEEGIFRLPGQDNLVKQLRDAFDAGERPSFDRD TDVHTVASLLKLYLR

DLPEPVVPWSQYEGFLLCGQLTNADEAKAQELMKQLSILPRDNYSLLSYICRFLHEIQL  
NCAVNKMSVDNLATVIGVNLIRSKVEDPAVIMRGTPQIQRVMTMMIRDHEVLFPKSKDIP  
LSPPAQKNDPKKAPVARSSVGWDATEDLRISRTDSFSSMTSDSDTTSPTGQQPSDAFPED  
SSKVPREKPGDWKMQSRKRTQTLPNRKCFLTSAFQGANSSKMEIFKNEFWSPSSEAKAGE  
GHRRTMSQDLRQLSDSQRTSTYDNVPSLPGSPGEEASALSSQACDSKGDTLASPNSETGP  
GKKNSGEEIIDSLQRMVQELRKEIETQKQMYEEQIKNLEKENYDVWAKVVRLNEELEKEK  
KKSAALEISLRNMERSREDVEKRNKALEEEVKEFVKSMKEPKTEA

>sp|Q52LW3|RHG29\_HUMAN Rho GTPase-activating protein 29 OS=Homo sapiens GN=ARHGAP29 PE=1  
SV=2

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YLKEAIFSDCFKEVIHIRLEELLRVLKSIMNKHQNLNSVDLQNAEMLTAKVKAVNFTEV  
NEENKNDLFQEVFSSIETLAFTFGNILTNFLMGDVGNDSSLRLPVSRETFSFENVSVESV  
DSSSEKGNFSPLELDNVLLKNTDSIELALSYAKTWSKYTKNIVSWVEKKLNLELESTRNM  
VKLAEATRNTIGIQEFMPLQSLFTNALLNDIESSHLLQQTIAALQANKFVQPLLGRKNEM  
EKQRKEIKELWKQEQNKMLEAENALKKAKLLCMQRQDEYEKAKSSMFRAEEHLSSSGGL  
AKNLNKQLEKKRRLEEEALQKVEEANELYKVCVTNVEERRNDLENTKREILAQLRTL VFQ  
CDLTLKAVTVNLFHMQHLQAASLADSLQSLCDSAKLYDPGQEYSEFVKATNSTEEKVDG  
NVNKHLSNSQPSGFGPANSLEDVVRLPDSSNKIEEDRCSNSADITGPSFIRSWTFGMFSD  
SESTGGSSSESRLDSESI SPGDFHRKLPRTPSSGTMSADDLDEREPPSPSETGPNLGT  
FKKTLMSKAALTHKFRKLRSPTKCRDCEGIVVFQGVCEEECLLVCHRKCLENLVIICGHQ  
KLPGKIHLFGAEFTQVAKKEPDGIPFILKICASEIENRALCLQGIYRVCGNKIKTEKLCQ  
ALENGMHLVDISEFSSHDCDVLKLYLRQLPEPFI LFRLYKEFIDLAKETIQHVNEEQETK  
KNSLEDKKWPNMCIEINRILLKSKDLLRQLPASNFNSLHFLIVHLKRVDHAEENKMNSK  
NLGVIFGPSLIRPRPTTAPITISSLAEYSNQARLVEFLITYSQKIFDGS LQPQDVMCSIG  
VVDQGC FPKLLSPEERDIERSMKSLFFSSKEDIHTSESESKIFERATSFEESEKQNAL  
GKCDACLSDKAQLLLDQEAESASQKIEDGKTPKPLSLKSDRSTNNVERHTPRTKIRPVSL  
PVDRLLLASPPNERNGRNMGNVNLDFCKNPAFEGVNRKDAATTVC SKFNGFDQQLQKI  
QDKQYEQNSLTAKTTMIMP SALQEKGVTTSLQISGDHSINATQPSKPYAEPVRSVREASE  
RRSSDSYPLAPVRAPRTLQPQHWTTFYKPHAPIISIRGNEEKPASPSAAVPPGTDHDPHG  
LVVKSMPPDPKASACPGQATGQPKEDSEELGLPDVNPMCQRPR LKRMQQFEDLEGEIPQF  
V

>sp|A7KAX9|RHG32\_HUMAN Rho GTPase-activating protein 32 OS=Homo sapiens GN=ARHGAP32 PE=1  
SV=1

METESSTLGDSDVFWLESEVIIQVTDCEEEEREKFRKMKSSVHSEEDDFVPELHRNV  
HPRERPDWEETLSAMARGADVPEIPGDLTLKTCGSTASMKVKHVKKLPFTKGHFPKMAEC  
AHFHYENVEFGSIQLSLSEEQNEVMKNGCESKELVYL VQIACQGKSWIVKRSYEDFRVLD  
KHLHLICIYDRRFSQLSELPRSDTLKDSPESVTQMLMAYLSRLSAIAGNKINCGPALTWME  
IDNKGNHLLVHEESSINTPAVGAAHVIKRYTARAPDELTLEVGDIVSVIDMPKVLSTWW  
RGKHGFQVGLFPGHCVELINQKVPQSVTNSVPKPVSKKHGKLITFLRTFMKSRPTKQKLK  
QRGILKERVFGCDLGEHLLNSGFVPPVQLQSCTAFIERYGIVDGIYRLSGVASNIQRLRH  
EFDSEHVPDLTKEPYVQDIHSGVSLCKLYFRELPNPLTYQLYEKFSDAVSAATDEERLI  
KIHDVIQQLPPPHYRTLEFLMRHLSLLADYCSITNMHAKNLAI VWAPNLLRSKQIESACF  
SGTAAFM EVRIQSVVVEFILNHVDVLFSGRISMAMQEGAASLSRPKSLLVSSPSTKLLTL  
EEAQARTQAQVNSPIVTENKYIEVGEGPAALQGKFHTII EFPLERKRPQNMKKSPVGSW

RSFFNLGKSSSVSKRKLQRNESEPSEMKAMALKGGRAEGLRSAKSEESLTSLHAVDGDS  
KLFRPRRPRSSDALSFNGEMLGNRCNSYDNLPHDNESEEEGGLLHIPALMSPHSAED  
VDLSPPDIGVASLDFDPMFQCSPPKAESECLESGASFLDSPGYSKDKPSANKKDAETGS  
SQCQTPGSTASSEPVSLQEKLSFFTLDLSPTEKSSKPSFTEKVYAFSPKIGRKL  
KSPSMSISEPISVTLPPRVSEVIGTVSNNTAQNASSTWDKCEERDATNRSPTQIVKMK  
TNETVAQEAYESEVQPLDQVAAEEVELPGKEDQSVSSSQKAVASGQTQTGAVTHDPPQD  
SVPVSSVSLIPPPPPKKNVARMALALAEASAQASTQSLKRPQTSQAGYTNYGDIATV  
EDNLSSSYSAVALDKAYFQTDPAEQFHLQNNAPGNC DHPLPETTATGDPTHSTTESGE  
QHHQVDLTGNQPHQAYLSGDPEKARITSVPLDSEKSDDHVSFPEQSGKNSMPTVSFLDQ  
DQSPPRFYSGDQPPSYLGASVDKLHHPLEFADKSPTPNLPSDKIYPPSGSPEENTSTAT  
MTYMTTTPATAQMSKEASWDVAEQPTTADFAAATLQRTHRTNRPLPPPPQRSAEQPPV  
VGQVQAATNIGLNNSHKVQGVVPPERPPPEPRAMDDPASAFISDSGAAAAQCPMATAVQP  
GLPEKVRD GARVPLHLRAESVPAHPCGFPAPLPPTRMESKMIAAIIHSSADATSSSNY  
HSFVTASSTVDDALPLPLPVPQPKHASQKTVYSSFARPDVTTEPFGPDNCLHFNMT  
PNCQYRPQSVPPHHNKLEQHGVYGARSEPPASMGRLRYNTYVAPGRNASGHHKPCSRVEYVSS  
LSSSVRNTCYPEDIPPYPTIRRVQSLHAPPSSMIRSVPISRTEVPPDDEPAYCPRPLYQY  
KPYQSSQARSYHVTQLQPYFENGRVHYRSPYSSSSSSSYSPDGALCDVDAYGTVQLRP  
LHRLPNRDFAFYNPRLQGKSLYSYAGLAPRPRANVTGYFSPNDHNVSMPPAADVKHTYT  
SWDLEDMEKYRMQSIRRESRARQKVKGPMVSQYDNMTPAVQDDLGGIYVIHLRSKSDPGK  
TGLLSVAEGKESRHAAKAISPEGEDRFYRRHPEAEMDRAHHHGGHGSTQPEKPSLPQKQS  
SLRSRKLPLDMGCSLPEHRAHQEASHRQFCESKNGPPYPQGAGQLDYSGKGIPDTSEPVSY  
HNSGVKYAASQGESLRLNHKEVRLSKEMERPWVRQPSAPEKHSRDCYKEEHLTQSI  
VPPPKPERSHSLKLHHTQNVERDPSVLYQYQPHGKRQSSVTVVSQYDNLEDYHSLPQH  
QRGVFGGGMGMTYVPPGFPHPQRSRYATALGQGAFLPAELSLQHPETQIHAE

>sp|A6NJZ7|RIM3\_HUMAN RIMS-binding protein 3C OS=Homo sapiens GN=RIMBP3C PE=1 SV=3

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LREEAERERRQLADRLRSKWEAQRSRELRLQEEQMREREAEIRQLLRWKEAEQRQLQQL  
LHRERDGVVRQARELQRQLAEELVNRGHCSRPGASEVSAAQCRCRLQEVLAQLRWQTDGE  
QAARIRYLQAALVERQLFLKYILAHFRGHPALSGSPDPAVHSLEEPLPQTSSGSCHAP  
KPACQLGSLDSLAEVGVRSRSLGLVSSACSSSPDGLLSTHASSLDCFAPACSRSLDSTR  
SLPKASKSEERPSSPDTSTPGSRRLSPPPSPLPPPPPSAHRKLSNPRGGEGSESQPCEV  
LTPSPPLGHHEL IKLNWLLAKALWVLARRCYTLQEENKQLRRAGCPYQADEKVRLKVK  
RAELTGLARRLADRARELQETNLRAVSAPIPGESCAGLELCQVFARQRARDLSEQASAPL  
AKDKQIEELRQECHLLQARVASGPCSDLHTGRGGPCTQWLNVRDLRLQRESQREVLRLQ  
RQLMLQQGNGGAWPEAGGQSATCEEVRRQMLALERE LDQRRRECQELGTQAAPARRRGEE  
AETQLQAALLKNWLAEEENGLQAKTDWVRKVEAENSEVRGHLGRACQERDASGLIAEQL  
LQQAARGQDRQQQLQRDPQKALCDLHPSWKEIQALQCRPGHPPEQPWETSQMPESQVKGS  
RRPKFHARPEDYAVSQPNRDIQEKREASLEESPVALGESASVPQVSETVPASQPLSKKTS  
SQSNSSESGSMWATVPSSPTLDRDTASEVDDLEPDSVSLALEMGGSAAPAAPKLKIFMAQ  
YNYNPFEGPNDHPEGELPLTAGDYIYIFGDMDEGDFYEGELDDGRRGLVPSNFVEQIPDS  
YIPGCLPAKSPDLGPSQLPAGQDEALEEDSLLSGKAQGMVDRGLCMVRVSGSKTEVATEI  
LDTKTEACQLGLLQSMGKQGLSRPLLGTGVLRLMAPMQLHLQNV TATSANITWVYSSHRH  
PHVVYLDREHALTPAGVSCYTFQGLCPGTHYRVRVEVRLPWDLLQVYWGTMSSVTFTDT  
LLAGPPYPPLDVLVERHASPGVLVVS WLPVTIDSAGSSNGVQVTGYAVYADGLKVCEVAD

ATAGSTVLEFSQLQVPLTWQKVSVRTMSLCGESLDSVPAQIPEDFFMCHRPETPPFSYT  
CGDPSTYRVTFPVCQKLSLAPPSAKASPHNPGSCGEPQAKFLEAFEEPPRRQSPVSNL  
GSEGECPSSGAGSQAQELAEAWEGCRKDLLFQKSPQNRPPSVSDQPGEKENCYQHMGTS  
KSPAPGFIHLRTECGPRKEPCQEKAALERVLRQKQDAQGFTPPQLGASQQYASDFHNVLK  
EEQEALCLDLRGTERREERREPEPHSRQGQALGVKRGCLHEPSSALCPAPSAKVIKMPR  
GGPQQLTGANTPARVFVALSDYNPLVMSANLKAAEEELVFQKRQLLRVWGSQDTHDFYL  
SECNRQVGNIPGRLVAEMEVGTEQTD RRWRSPAQHLP SVAHLEDFQGLIIPQGSSLVLQ  
GNSKRLPLWTPKIMIAALDYDPGDGMGGQKGRLALRAGDVVMVYGPMDDQGFYYGELG  
GHRGLVPAHLLDHMSLHGH

>sp|P15927|RFA2\_HUMAN Replication protein A 32 kDa subunit OS=Homo sapiens GN=RPA2 PE=1  
SV=1

MWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEEKSRARAQHIVPCTISQLLSATLV  
DEVFRIGNVEISQVTIVGIIRHAEKAPTNIIVYKIDDMTAA PMDVQWVD TDDTSSSENTVV  
PPETYVKVAGHLRSFQNKSLVAFKIMPLEDMNEFTTHILEVINAHMVLSKANSQPSAGR  
APISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLKACPRPEGLNFQDLKNQLKHMSVS  
SIKQAVDFLSNEGHIYSTVDDHFKSTDAE

>sp|Q13156|RFA4\_HUMAN Replication protein A 30 kDa subunit OS=Homo sapiens GN=RPA4 PE=1  
SV=2

MSKSGFGSYGSISAADGASGGSDQLCERDATPAIKTQRPKVRIQDVVPCNVNQLLSSTVF  
DPVFKVRGIIVSQVSI VGVIRGAEKASNHICYKIDDMTAKPIEARQWFGREKVKQVTPLS  
VGVYVKVFGILKCPGTGKSLEVLKIHVLEDMNEFTVHILETVNAHMLDKARRDTTVESV  
PVSPSEVNDAGDNDESHRNFIQDEVLR LIHECPHQEGKSIHELRAQLCDLSVKAIKEAID  
YLTVEGHIYPTVDREHFKSAD

>sp|F8VTS6|RFAL1\_HUMAN Ret finger protein-like 4A-like protein 1 OS=Homo sapiens  
GN=RFPL4AL1 PE=2 SV=1

MAEHFKQIIRCPVCLKDLEEAVQLKCGYACCLQCLNSLQKEPDGEGLLCRFCSVVSQKDD  
IKPKYKLRLVSI I KELEPKLKS VLT MNPRMRKFQVDMTFD VDTANNYLII SEDLRSFRS  
GDLSQNRKEQAERFD TALCVLGT PRFTSGRHYWEVDVGTSQVWDVGCKESVNRQGKIEL  
SSEHGFLT VGCREGKVFAASTVPM TPLWVSPQLHRVGIFLDVGMRSIAFYNVSDGCHINT  
FIEIPVCEPWRPFFAHKRGSQDDQSILSICSVINPSTASAPVSSEGG

>sp|P35249|RFC4\_HUMAN Replication factor C subunit 4 OS=Homo sapiens GN=RFC4 PE=1 SV=2

MQAFLKGTSISTKPPLTKDRGVAASAGSSGENKKAKPVPWVEKYRPKCVDEVAFQEEVVA  
VLKKSLEGADLPNLLFYGPPGTGKTSTILAAARELFGPELFR LRVLELNASDERGIQVVR  
EKVKNFAQLTVSGSRSDGKPCPPFKIVILDEADSM TSAAQAALRRTMEKESKTTRFCLIC  
NYVSRIIEPLTSRCSKFRFKPLSDKIQQRLLDI AKKENVKISDEGIAYLVKVSEGD LRK  
AITFLQSATRLTGGKEITEKVITDIAGVIPAEKIDGVFAACQSGSFDKLEAVVKDLIDEG  
HAATQLVNQLHDVVVENNLSDKQKSIITEKLAEVDKCLADGADEHLQLISLCATVMQQLS  
QNC

>sp|Q9NWB1|RFOX1\_HUMAN RNA binding protein fox-1 homolog 1 OS=Homo sapiens GN=RBFox1 PE=1  
SV=2

MNCEREQLRGNQEAAAAPDTMAQPYASAQFAPPQNGIPA EYTAPHPHPAPEYTGQTTVPE  
HTLNLYPPAQTHSEQSPADTSAQTVSGTATQTDDAAPT DGGPQTQPSSENTENKSQPKRLH  
VSNIPFRFRDPDLRQMFGQFGKILDVEIIFNERGSKGFGFVTFENSADADRAREKLHGTV  
VEGRKIEVNNATARVMTNKKTVNPYTNGWKLNPVVGAVYSPEFYAGTVLLCQANQEGSSM

YSAPSSLVYTSAMPGFPYPAATAAAAYRGAHLRGRGRTVYNTFRAAAPPPPIPAYGGVY  
QDGFYGADIYGGYAYRYAQPTPATAAAYSYSYGRVYAADPYHHALAPPTYGVGAMNAF  
APLTDAKTRSHADDVGLVLSLQASIYRGGYNRFAPY

>sp|P48382|RFX5\_HUMAN DNA-binding protein RFX5 OS=Homo sapiens GN=RFX5 PE=1 SV=1

MAEDEPDAKSPKTGGRAPPGAEAGEPTTLQRLRGTISKAVQNKVEGILQDVQKFSND  
KLYLYLQLPSGPTTGDKSSEPSTLSNEEYMYAYRWIRNHLEHTDTCLPKQSVYDAYRKY  
CESLACCRPLSTANFGKIIREIFPDIKARRLGGRGQSKYCYSGIRKTLVSMPLPLGLDL  
KGSEPEMGPEVTPAPRDELVEACALTCDAERILKRSFSSIVEVARFLLQQHLISARS  
AHAVLKLAMGLAEDEHAPRERSKPKNGLENPEGGAHKKPERLAQPPKDLEARTGAGPL  
ARGERKKSVVSSAPGANNLQVNLVARLPLLLPRAPRSLIPPIPVSPPI LAPRLSSGAL  
KVATLPLSSRAGAPPAAVPIINMILPTVPALPGPGPGGRAPPGGLTQPRGTENREVGIG  
GDQGPDKGVKRTAEVPSVSEASGQAPPAKAAKQDIETASDAKRRGRPRKKSGSGERN  
STPLKSAAAMESAQSSRLPWETWGS GEGNSAGGAERP GPMGEAEKGAVLAQGGQDGTVS  
KGGRPGSQHTKEAEDKIPLVPSKVSVIKGSRSQKEAFPLAKGEVDTAPQGNKDLKEHVL  
QSSLSQEHKDPKATPP

>sp|Q6NW40|RGMB\_HUMAN RGM domain family member B OS=Homo sapiens GN=RGMB PE=1 SV=3

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TDFVSLTSHLNSAVDGFDFSECKALRAYAGCTQRTSKACRGNLVYHSAVLGISDLMSQRN  
CSKDGPSTSTNPEVTHDPCNYHSHAGAREHRRGDQNPPSYLFCGLFGDPLRFTKDNFQT  
CKVEGAWPLIDNNYSVQVTNPVVPVPGSSATATNKITII FKAHHECTDKVYQAVTDDL  
AAFDVDTTSGGSDAKSLRIVERESGHYVEMHARYIGTTVFVRQVGRYLTLAIRMPEDLA  
MSYEESQDLQLCVNGCPLSERIDGQGVSAI LGHSLPRTSLVQAWPGYTLETANTQCHE  
KMPVKDIYFQSCVFDLLTTGDANFTAAHSALEDVEALHPRKERWHIFPSSGNGTPRGG  
DLSVSLGLTCLILIVFL

>sp|043665|RGS10\_HUMAN Regulator of G-protein signaling 10 OS=Homo sapiens GN=RGS10 PE=1  
SV=2

MQSELCFADIHSDGSSSSSHQLKSTAKWAASLENLLEDPEGVKRFREFLKKEFSEENV  
LFWLACEDFKMKQDKTQMKEKAKIYMTFLSSKASSQVNVEGQSRLEKILEEPHPLMFQ  
KLQDQIFNLKMYDSYRFLKSDLFLKHKRTEEEEDLPDAQTAAKRASRIYNT

>sp|014921|RGS13\_HUMAN Regulator of G-protein signaling 13 OS=Homo sapiens GN=RGS13 PE=2  
SV=1

MSRRNCWICKMCRESKRPPSNLTLEEVQWQSFENLMATKYGPVYVYAYLKMEHSDEN  
IQFWMACETYKKIASRWSRISRKKLYKIYIQPSPREINIDSSTRETIIRNIQEPTETC  
FEEAQKIVYMHMERDSYPRFLKSEMYQKLLKTMQSNNF

>sp|Q08116|RGS1\_HUMAN Regulator of G-protein signaling 1 OS=Homo sapiens GN=RGS1 PE=1  
SV=3

MRAAAISTPKLDKMPGMFFSANPKELKGTTHSLDDKMQRPRPKTFGMDMKAYLRSMIPH  
LESGMKSSKSDVLSAAEVMQWSQSLEKLLANQTGQNVFGSFLKSEFSEENIEFWLACED  
YKKTESDLLPCKAEIYKAFVHSDAAKQINIDFRTRESTAKKIKAPTPTCFDEAQKVIYT  
LMEKDSYPRFLKSDIYLNLLNDLQANSLK

>sp|P49796|RGS3\_HUMAN Regulator of G-protein signaling 3 OS=Homo sapiens GN=RGS3 PE=1  
SV=2

MPVIPALWEVEMGRSQGEIETILANRSHSDSTPLPNFLSGSHRPECCTCRLLTASGAQD  
SLPFGRRLYSGPWRSCEEVCHVSVLSVLSTSCGLSLSLPIFPGWMEWLPDIALPRRDEW

TQTSPARKRITHAKVQGAGQLRLSIDAQRVLLLHIIEGKGLISKQPGTCDPYVKISLIP  
EDSRLRHQKTQTPDCRDPAFHEHFFFPVQEEDDQKRLLVTVWNRASQSRQSGLIGCMSF  
GVKSLTDPKEISGWYYLLGEHLGRTHLKVARRRLRPLRDPLLRMPGGGDTENGKKLKI  
TIPRGKDGFGFTICCDSPVRVQAVDSGGPAERAGLQQLDVLQLNERPVEHWKCVELAHE  
IRSCPSEIILLVWRMVPQVKPGPDGGVLRRASCKSTHDLQSPPNKREKNCTHGVQARPEQ  
RHSHLVCDDSSDGLLLGGWERYTEVAKRGGQHTLPALSRATAPTDPNYIILAPLNPGSQL  
LRPVYQEDTIPEESGSPSKGKSYTGLGKKSRLMKTVMKGHGNYQNCPPVRPHATHSSY  
GTYYTLAPKVLVFPVFVQPLDLCNPARTLLLSEELLYEGRNKAEEVTLFAYSDLLLFTK  
EDEPGRCDVLRNPLYLQSVKLQEGSSDLKFCVLYLAEKAECFLTLEAHSQEKKRVCWC  
LSENIKQQQLAASPPDSKMFETEADKREMALEEGKGPGAEDSPPSKEPSPGQELPPGQ  
DLPPNKDPSGQEPAPSQEPLSSKDSATSEGSPPGPDAPPSKDVPPCQEPPEAQLSPCQ  
DLPAGQEPLPHQDPLLTkdLPAIQESPTRDLPPCQDLPPSQVSLPAKALTEDTMSSGDLL  
AATGDPAAAPRAFAVIEVRLDSTYSQKAGAEQGCSDGDEDAEEAEVEEGEEGEEDEDE  
DTSDDNYGERSEAKRSSMIETGGAEGGLSLRVQNSLRRRTHSEGSLLQEPRGPCFASDT  
TLHCSDGEGAASWGMPSPSTLKKELGRNGGSMHHLSLFFTGHRKMSGADTVGDDDEASR  
KRKSKNLAKDMKNKLGIFRRRNESPGAPPAGKADKMMKSFKPTSEEALKWGESLEKLLVH  
KYGLAVFQAFLRTEFSEENLEFWLACEDFKKVKSSQKMASKAKKIFAIEYIAIQACEKVN  
LSYTREHTKDNLSVTRGCFDLAQKRIFGLMEKDSYPRFLRSDLYLDLINQKKMSPPL

>sp|O15539|RGS5\_HUMAN Regulator of G-protein signaling 5 OS=Homo sapiens GN=RGS5 PE=1  
SV=1

MCKGLAALPHSCLERAKEIKIKLGILLQKPDSVGDVPIPYNEKPEKPAKTQKTSLDEALQ  
WRDSDLKLLQNNYGLASFKSFLKSEFSEENLEFWIACEDYKKIKSPAKMAEKAKQIYEEF  
IQTEAPKEVNIDHFTKDITMKNLVEPSLSSFDMAQKRIHALMEKDSLPRFVRSEFYQELI  
K

>sp|Q9C0H5|RHG39\_HUMAN Rho GTPase-activating protein 39 OS=Homo sapiens GN=ARHGAP39 PE=1  
SV=2

MSQTQDYECRSHNVLDPESTRIPGSNTRLEWVEIIEPTRERMYANLVTGECVWDPPAGVR  
IKRTSENQWWELFDPNSTRFYYNASTQRTVWHRPQGCDIIPLAKLQTLKQNTESPRASA  
ESSPGRGSSVSREGTSSSSLEPEPDTEKAQELPARAGRPAAFGTVKEDSGSSSPPGVFLE  
KDYEIYRDYSADGQLLHYRTSSLRWNSGAKERMLIKVADREPSFLAAQNGYAPDGPPGV  
RSRRPSGSGHSPSLQTFAPADGTIFFPERRPSPFLKRAELPGSSSPLLAQPRKPSGDSQ  
PSSPRYGYEPPLYEPPVEYQAPIYDEPPMDVQFEAGGGYQAGSPQRSPGRKPRPFLQPN  
KQGPPSPCQQLVLTQKQCPERFLSLEYSAGKEYVRQLVYVEQAGSSPKLRAGPRHKYAP  
NPGGGSYSLQSPCLLRDQRLGVKSGDYSTMEGPELRHSQPPTPLPQAQEDAMSWSSQQD  
TLSSTGYSPGTRKRKSRKPSLCQATSATPTEGPGDLLVEQPLAEEQPPCGTSLAPVKRAE  
GEAEGARGAAEPFLAQARLAWEAQQAHFHMKQRSSWDSQQDGSYGESDGALPLMPGPVV  
RAFSEDEALAQENRHWRRTFEKLGFPQILLEKSVSVQTNLASPEPYLHPSQSEDLAAC  
AQFESSRQSRSGVPSSSCVFPTFTLRKPSSETDIENWASKHFNKHTQGLFRRKVSIANML  
AWSSSEIKKPMIVTSDRHVKKEACELFKLIQMYMGDRRAKADPLHVALEVATKGWSVQGL  
RDELYIQLCRQTTFNRLSLARGWELMAICLAFFPPTPKFHSYLEGYIYRHMDPVNDTK  
GVAISTYAKYCYHKLQKAALTGAKKGLKKPNVEEIRHAKNAVFSPSMFGSALQEVGMGMQR  
ERYPERQLPWVQTRLSEEVLALNGDQTEGIFRVPGDIDEVNALKLQVDQWKVPTGLEDPH  
VPASLLKLWYRELEEPLIPHEFYEQCIAHYDSPEAAVAVVHALPRINRMVLCYLIRFLQV  
FVQPANVAVTKMDVSNLAMVMAPNCLRCQSDDPRIIFENTRKEMSFLRVLIQHLDTSFME

GVL

>sp|Q6P4F7|RHGBA\_HUMAN Rho GTPase-activating protein 11A OS=Homo sapiens GN=ARHGAP11A  
PE=1 SV=2

MWDQRLVRLALLQHLRAFYGIKVKGVRGQCDRRRHETAATEIGGKIFGVFPNALPHSAVP  
EYGHIPSFLVDACTSLIEDHIHTEGLFRKSGSVIRLKALKKNKVDHGEGLSSAPPCDIAGL  
LKQFFRELPEPILPADLHEALLKAQQLGTEENKATLLLSCLLADHTVHVLRYFFNFLRN  
VSLRSSENKMDSSNLAVIFAPNLLQTSEGHEKMSSNTEKKLRLQAADVQTLIDYASDIGR  
VPDFILEKIPAMLGIDLCATPSLEGFEEGEYETPGEYKRKRQSVGDFVSGALNKFKN  
RTPSITPQEERIAQLSESPVILTPNAKRTL PVDSSHGFSSKKRKS IKHNFNFELLPSNLF  
NSSSTPVSVHIDTSSEGSSQSSLSPVLIGGNHLITAGVPRRSKRIAGKKVCRVESGKAGC  
FSPKISHKEKVRRLRLKFNLGKNGREVNGCSGVNRYESVGWRLANQQSLKNRIESVKTG  
LLFSPDVDEKLPPKGSEKISKSEETLLTPERLVGTNYRMSWTGPNNSSFQEVDAEASSM  
VENLEVENSLPDI MEKSPATSCELTPSNLNNKHNSNITSSPLSGDENNMTKETLVKVQ  
KAFSESGSNLHALMNQRQSSVTNVGVKLTEPSYLEDSPENLFETNDLTIVESKEYEH  
HTGGEKCFSEDFSPQLQTQTFNRETTIKCYSTQMKEHEKDIHSNMPKDYLSKQEFSSD  
EEIKKQQSPKDKLNNKLKENENMMEGNLPKCAAHSKDEARSSFSQQSTCVVTNLSKPRPM  
RIAKQQSLETCEKTVSESSQMTHEHRKVS DHIQWFNKL SLNPNRIKVKSP LKFQRT PVRQ  
SVRRINSLL EYSRQPTGHKLASLGDTASPLVKS VSCD GALSSCIESASKDSSVSCI KSGP  
KEQKMSCEESNIGAI SKSSMELPSK SFLKMRKHPDSVNASLRSTTVYKQKILSDGQVKV  
PLDDL TNHDIVKPVVNNMGISSGINNRVLRP SERGRAWYKGSPKHP IGKTQLLPTSKP  
VDL

>sp|P61586|RHOA\_HUMAN Transforming protein RhoA OS=Homo sapiens GN=RHOA PE=1 SV=1  
MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDT  
AGQEDYDRLRPLSYPD TDVILMCFSIDSPDSLENIPEKWTPEVKHF CPNVPIILVGNKKD  
LRNDEHTRRELAKMKQEPVKPEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQ  
ARRGKKKSGCLVL

>sp|A6NNX1|RIAD1\_HUMAN RIIa domain-containing protein 1 OS=Homo sapiens GN=RIIAD1 PE=4  
SV=1

METLPGLLQRPDPGALSAAQLEQLRKFKIQTRIANEKYL RTHKEVEWLISGFFREIFLKR  
PDNILEFAADYFTDPRLPNKIHMQLIKDKKAA

>sp|Q5EBL4|RIPL1\_HUMAN RILP-like protein 1 OS=Homo sapiens GN=RILPL1 PE=1 SV=1

MEEERGSALAAESALEKNVAELTVMDVYDIASLVGHEFERVIDQHGCEATARLMPKVVRV  
LEILEVLVSRHHVAPELDELRL ELDRRLERMDRIEKERKHQKELELVEDVWRGEAQDLL  
SQIAQLQEENKQLMTNLSHKDVNFSEEFQKHEGMSERERQVMKKLKEVVDKQRDEIRAK  
DRELGLKNEDVEALQQQQLRLMKINHDLRHRVTVVEAQGKALIEQKVELEADLQTKEQEM  
GSLRAELGKLRLRLQGEHSQNGEEEPETEPVGEESISDAEKVAMDLKDPNRPRFTLQELR  
DVLHERNELKSKVFLQEE LAYYKSEEMEEENRIPQPPPIAHPTSPQPESGIKRLFSFF  
SRDKKRLANTQRNVHIQESFGQWANTHRDDGYTEQGQEALQHL

>sp|P62906|RL10A\_HUMAN 60S ribosomal protein L10a OS=Homo sapiens GN=RPL10A PE=1 SV=2

MSSKVS RDTLYEAVREVLHGNQRKRKFLETVELQISLKNYDPQDKRFS GTVRLKSTPR  
PKFSVCVLGDQQHCDEAKAVDIPHMDIEALKLNKNKKLVKKLAKKYDAFLASESLIKQI  
PRILGPGLNKAGFP SLLTHNENMVAKVDEVKSTIKFQMKKVLC LAVAVGHVKMTDDELV  
YNIHLAVNFLVSLKKNWQNV RALYIKSTMGKPQRLY

>sp|Q9UGC7|RF1ML\_HUMAN Peptide chain release factor 1-like, mitochondrial OS=Homo sapiens  
GN=MTRF1L PE=1 SV=1

MRSRLWGAARWLWPRRAVGPARPLSSGSPLEELFTRGGPLRTFLERQAGSEAHLKVR  
RPELLAVIKLLNEKERELRETEHLLHDENEDLRKLAENEITLCQKEITQLKHQIILLVLP  
SEETDENDLILEVTAGVGGQEAMLFITSEIFDMYQQYAAFKRWHFETLEYFPSELGGLRHA  
SASIGGSEAYRHMKEGQVHRVQRPKTEKQGRVHTSTMTVAILPQPTINLVINPKDLR  
IDTKRASGAGGQHVNTDSAVRIVHLPTGVVSECQERSQLKNKELAMTKLRKLYSMHL  
EEEINKRQNKARKIQIGSKGRSEKIRTYNFPQNRVTDHRINKTLHDLETFMQGDYLLDELV  
QSLKEYADYESLVEIISQKV

>sp|075570|RF1M\_HUMAN Peptide chain release factor 1, mitochondrial OS=Homo sapiens  
GN=MTRF1 PE=1 SV=2

MNRHLCVWLFRRHPSLNGYLQCHIQHSHQFRQIHLDTRLQVFRQNRNCLHLLSKNWSRR  
YCHQDTKMLWKHKALQKYMENLSKEYQTLEQCLQHIPPVNEENRRSLNRRHAELAPLAAIY  
QEIQETEQAIEELESCKSLNKQDEKQLQELALEERQTIDQKINMLYNELFQSLVPKEY  
DKNDVILEVTAGRTTGGDICQQFTREIFDMYQNYSCYKHWQFELLYNTPADYGGLHHAAA  
RISGDGVYKHLKYEGGIHRVQRIPEVGLSSRMQRIHTGTMSVIVLPQPDEVVKLDPKDL  
RIDTFRAKGAGGQHVNKTDASVRLVHIPTGLVVECCQERSQIKNKEIAFRVLRARLYQQI  
IEKDKRQQSARKLVGQTRAQSERIRTYNFTQDRVSDHRIAYEVRDIKEFLCGGKGLDQL  
IQRLQSADEEAIAELLDEHLKSAK

>sp|Q9Y644|RFNG\_HUMAN Beta-1,3-N-acetylglucosaminyltransferase radical fringe OS=Homo sapiens  
GN=RFNG PE=2 SV=3

MSRARGALCRACLALAAALAALLLPLPLPRAPAPARTPAPAPRAPPSPRAAPSLRPDDV  
FIAVKTRKNHGPRLRLLLRTWISRARQQTFIFTDGDPELELQGGDRVINTNCSAVRTR  
QALCCKMSVEYDKFIESGRKWFCHVDDDNVYNARSLLHLLSSFSPSQDVYLGRPSLDHPI  
EATERVQGGRTVTTVKFWFATGGAGFCLSRGLALKMSPWASLGFSFMSTAEQVRLPDDCTV  
GYIVEGLLGARLLHSPLFHSLENLQRLPPDTLLQQVTLSHGGPENPHNVVNVAGGFSLH  
QDPTRFKSIHCLLYPDTDWCPQKQGAPTSR

>sp|043251|RFOX2\_HUMAN RNA binding protein fox-1 homolog 2 OS=Homo sapiens GN=RBFOX2 PE=1  
SV=3

MQNEPLTPGYHGFARDSQGNQEPTTTPDAMVQPFTTIPFPPPPQNGIPTEYGVPHQDY  
AGQTGEHNLTLYGSTQAHGEQSSNSPSTQNGSLTTEGGAQTDGQQSQTSSENSESSTP  
KRLHVSNIPIFRFPDLRQMFQFGKILDVEIIFNERGSKGFGVTFENSADADRAREKL  
HGTVVEGRKIEVNNTARVMTNKKMVTPIYANGWKLSPVVGAVYGPETYAASSFQADVSLG  
NDAAVPLSGRGGINITYIPLISLPLVPGFYPTAATTAATAAFAHRLRGRGRVYGAARAVP  
PTAIPAYPGVVYQDGFYADLYGGYAAARYAQPATATAATAAAAAAAYSDGYGRVYTAD  
PYHALAPAASYGVGAVASLYRGGYSRFAPY

>sp|075679|RFPL3\_HUMAN Ret finger protein-like 3 OS=Homo sapiens GN=RFPL3 PE=1 SV=2

MKRLSLVTTNRLSPQGNFLPLCTFPLAVDMAALFQEASSCPVCSDYLEKPMSECGCTVC  
LKCINSLQKEPHGEDLLCCCCSMVSQRNKIRPNRQLERLVSHIKELEPKLKKILQMNPRM  
RKQVQDMTLDADTANNFLLISDDLRSVRSLITQNRQDLAERFDVSVCILGSPRFTCGRH  
YWEVDVGTSTEWDLGVCRESVHCKGKIQLTTELGFWTVSLRDGSRLSASTVPLTFLLVDR  
KLQRVGIFLDMGMQNVSFDAESGSHVYTFRSVSAEPLRPFLAPSIPPNGDQGVLSICP  
LMNSGTTDAPVRPGEAK

>sp|Q96AA3|RFT1\_HUMAN Protein RFT1 homolog OS=Homo sapiens GN=RFT1 PE=1 SV=1



MGSQEVLGHAARLASSGLLLQVLFRLITFVLNAFILRFLSKEIVGVNVRLTLLYSTTLF  
LAREAFRRACLSGGTQRDWSQTLNLLWLTVPPLGVFWSLFLGWIWLQLLEVPDPNVVPHYA  
TGVVLFGLSAVVELLGEPFWLQAQAHMFVKLVIAESLSVILKSVLTAFLVLWLPHWGLY  
IFSLAQLFYTTVLVLCYVIYFTKLKLGSESTKLQTLPVSRITDLLPNITRNGAFINWKEA  
KLTWSFFKQSFLKQILTEGERYVMFTLNVLNFGDQGVYDIVNNLGSVLARLIFQPIEESF  
YIFFAKVLERGKDATLQKQEDVAVAAVLESLLKLALLAGLTITVFGFAYSQALDIYGG  
TMLSSGSGPVLLRSYCLYVLLLAINGVTECFTAAMSKEEVDRYNFVMLALSSSFLVLSY  
LLTRWCGSVGFILANCFNMGIRITQSLCFIHRYYRRSPHRPLAGLHLSPVLLGTALSSGG  
VTAVSEVFLCCEQGWPARLAHIAVGAFCLGATLGTAFLTETKLIHFLRTQLGVPRRTDKM  
T

>sp|Q14699|RFTN1\_HUMAN Raftlin OS=Homo sapiens GN=RFTN1 PE=1 SV=4

MGCGLNKLKRDEKRPNGIYSTLRKPQVETKIDVSYEYRFLETTLSAAELPGSSAVRLA  
SLRDLPAQLLELYQQGFSLAALHPFVQPTHEREKTPLEHIFRAILIKKTDRSQKTDLHNE  
GYILELDCCSSLDHPTDQKLIPEFIKKIQEAASQGLKFGVIPQYHSSVNSAGSSAPVST  
ANSTEDARDAKNARGDHASLENEKPGTGDVCSAPAGRNQSPESSGPRGEVPLAKQPSSP  
SGEGDGGELSPQGVSKTLDGPESNPLEVHEEPLSGKMEIFTLFNPKSHQKCRQYYPVTI  
PLHVSKNQGTVSGLDANWLEHMSDHFRRGGMLVNAVLYLGI VNDLHGLTDGVFIFEAVS  
TEDSKTIQGYDAIVVEQWTVLEGEVQTDYVPLLNSLAAYGWLTCVLPVPVKTSEGS  
VSTKQIVFLQRPCLPQKIKKKESKFQWRFSREEMHNRQMRKSKGKLSARDKQQAENEKN  
LEDQSSKAGDMGNCVSGQQQEGGVSEEMKGPVQEDKGEQLSPGGLLCGVGVEGEAVQNGP  
ASHSRALVGICTGHSNPGEDARDGDAEEVRELGTVEEN

>sp|P48378|RFX2\_HUMAN DNA-binding protein RFX2 OS=Homo sapiens GN=RFX2 PE=1 SV=2

MQNSEGGADSPASVALRPSAAAPPVPASPQRVLVQAASSNPKGAMQPISLPRVQQVPQQ  
VQPVQHVYPAQVQYVEGGDAVYTNGAIRTAYTYNPEPQMYAPSSASYFEAPGGAQVTVA  
ASSPPAVPSSHVMGITMDVGGSPIVSSAGAYLIHGGMDSTRHSLAHTSRSSPATLEMAIE  
NLQKSEGITSHKSGLLNSHLQWLLDNYETAEGVSLPRSSLYNHYLHRCQEHKLDPVNAAS  
FGKLIRSVFMGLRTRRLGTRGNSKYHYYGIRLKPDSPLNRLQEDTQYMAMRQQPMHQKPR  
YRPAQKTDSLGDSGSHSGLHSTPEQTMVQSQHHQYIDVSHVFPEFPAPDLGSFLLQDG  
VTLHDVKALQLVYRRHCEATVDVVMNLQFHYIEKLWLSFWNSKASSSDGPTSLPASDEDP  
EGAVLPKDKLISLCQCDPILRWMRSCDHILYQALVEILIPDVLRPVPSTLTQAIRNFAKS  
LEGWLTNAMSDFPQQVIQTKGVVSAFAQTLLRRTSLNHLAQAARAVLQNTSQINQMLSD  
LNRVDFANVQEQASWVCQCEESVVRLEQDFKLTQQQSSLDQWASWLDVVTQVLKQHA  
GSPSPFKAARQFLKWSFYSSMVIDLTLRSAASFGSFHLIRLLYDEYMFYLVEHRVAEA  
TGETPIAVMGEFNDLASLSLTLLDKDDMGDEQQRGSEAGPDARSLGEPLVKRERSDPNHSL  
QGI

>sp|Q96B86|RGMA\_HUMAN Repulsive guidance molecule A OS=Homo sapiens GN=RGMA PE=1 SV=3

MQPPRERLVVTGRAGWMGMGRGAGRSALGFWPTLAFLLCSPFAATSPCKILKCNSEFWSA  
TSGSHAPASDDTPEFCAALRSYALCTRRTARTCRGDLAYHASVHGIEDLMSQHNSKDG  
TSQPRRLTLPPAGDSQERSDSPEICHYEKSFHKHSATPNYTHCGLFGDPLRTFTDRFQT  
CKVQGAWPLIDNNYLVNVTNTPVLPGSAATATSKLTIIFKNFQECVDQKVYQAEMDELP  
AAFVDGSKNGGDKHGANSKITEKVSGQHVEIQAKYIGTTIVVRQVGRYLTFAVRMPEEV  
VNAVEDWDSQGLYLCLRGCPNLQQIDFQAFHTNAEGTGARRLAAASPAPTAPETFPYETA  
VAKCKEKLPEVDLYQACVFDLLTTGDVNFTLAAYYAEVDKMLHSNKDKLHLYDRTRDL  
PGRAAAGLPLAPRPLL GALVPLLALLPVFC

>sp|PODJD0|RGPD1\_HUMAN RANBP2-like and GRIP domain-containing protein 1 OS=Homo sapiens  
GN=RGPD1 PE=2 SV=1

MNMVGFNTDRLAWTRNKLGRGYFAKLYYEAKYDLAKKYVCTYLSVQERDPRAHRFLGLL  
YELEENTEKAVECYRRSLELNPPQKDLVLKIAELLCKNDVTDGRAKYWVERAAKLFPGSP  
AIYKLKEHLLDCEGEDGWNKLFDWIQSELYVRPDDVHMNIRLVELYRSNKRLKDAVARCH  
EAERNIALRSSLEWNSCVVQTLKEYLESQCLESDDKSDWRATNTDLLLAYANLMLLTLST  
RDVQESRELLESFDSALQSAKSSLGNDLSATFLEMKGHFYMHAGSLLKMGQHGNNVQ  
WQALSELAALCYVIAFQVPRPKIKLIKGEAGQNLEMMACDRLSQSGHMLLNLSRGKQDF  
LKEVETFANKSGQSVLYNALFSSQSSKDTSFLLGSDDIGNIDVQEPELEDLARYDVGAIQ  
AHNGSLQHLTWLGLQWNSLPALPGIRKWLKQLFHHLPPQETSRLTNAPESICILDLEVFL  
LGVVYTSHLQLKECNSHHSSYQPLCLPLPVCKRLCTERQKSWWDVAVCTLIHRKAVPGNS  
AELRLVVQHEINTLRAQEKHGLQPALLVHWAKCLQKMGRGLNSSYDQQEYIGRSVHYWKK  
VLPLLKIIKKNSIPEPIDPLFKHFHSVDIQASEIVEYEEDAHITFAILDAVHGNIEDAVT  
AFESI KSVVSYWNLALIFHRKAEDIENDAVFPEEQEECKNYLRKTRDYLIKIIDDSDSL  
SVVKKLPVPLESVKEMLKSVMELEDYSEGGLYKNGSLRNADSEIKHSTPSPTKYSLS  
SKSYKYSKPTPPRWAEDQNSLRKMICQEVKAITKLNSSKSASRHRWPTENYGPDSVPDGY  
QGSQTFHGAPLTVATTGPSVYYSQSPAYNSQYLLRPAANVTPTKGSSNTEFKSTKEGFSI  
AVSADGFKFGISEPGNQEKSEKPLENDTGFQAQDISGQKNGRGVIFGQTSSTFTFADVA  
KSTSGEGFQFGKKDPNFKGFSGAGEKLFSSQCGKMANKANTSGDFEKDDACKTEDSDDI  
HFEPVVQMPEKVELVTGEEGEKVLYSQGVKLFDFDAEISQWKERGLGNLKILKNEVNGKP  
RMLMRDQVLKVCANHWITTTMNLKPLSGSDRAWMWLASDFSDGDAKLERLAAQFKTPEL  
AEEFKQKFEECQRLLLDIPLQTPHKLVDTGAAKLIQRAEEMKSGLKDFKTFLTNDQTKV  
TEENKSGSGTGAAGASDTTIKPNPENTGPTLEWDNYDLREDALDDNVSSSSVHDSPLASS  
PVRKNIFRFEDESTTGFNFSSFKSALSLSKSPAKLNQSGTSVGTDEESDVTQEEERDGGYFE  
PVVPLPDLVEVSSGEENEQVVFSHRAELRYDKDVGVQWKERGIGDIKILQNYDNKQVRIV  
MRDQVLKLCANHRI TPMSLQNMKGTERVWVWTACDFADGERKVEHLAVRFLQDVADS  
FKKIFDEAKTAQEKDSLITPHVSRSTPRESPCGKI AVAVLEETTRERTDVIQGDDVADA  
ASEVEVSSTSETTKAVVSPPKFVFGSESVKRIFSSEKSNPFAFGNSSATGSLFGFSFNA  
PLKSNSETSSVAQSGSESKVEPKKCELSKNSDIEQSSDSKVKNLSASFMEESSINYTF  
KTPEKEPPLWHAFTKEELVQKLSSTTKSADQLNGLLRETEATSAVLMEQIKLLKSEIRR  
LERNQEESAANVEHLKNVLLQFIFLKPGRSERESLLPVINTMLQLSPEEKGKLAAVAQGLQ  
ETSIPKKK

>sp|Q13972|RGRF1\_HUMAN Ras-specific guanine nucleotide-releasing factor 1 OS=Homo sapiens  
GN=RASGRF1 PE=1 SV=2

MQKGIRLNDGHVASLGLLARKDGRKGYSKRSSDNTKWQTKWFALLQNLLFYFESDSSS  
RPSGLYLLEGVCVDRAPSPKPALSAKEPLEKQHYFTVNFSHENQKALELRTEDAKDCDEW  
VAAIAHASYRTLATEHEALMQYLHLLQIVETEKTVAKQLRQQIEDGEIEIERLKAEITS  
LLKDNERIQSTQTVAPNDESDIKKIKKVQSFLRGWLCRRKWKTIIQDYIRSPHADSMRK  
RNQVVFMSLEAAEYVQQLHILVNNFLRPLRMAASSKKPITHDDVSSIFLNSETIMFLH  
QIFYQGLKARISSWPTLVADLFDILLPMLNIYQEFVRNHQYSLQILAHCKQNRDFDKLL  
KHYEAKPDCEERTLETFLTYPMFQIPRYILTHELLAHTPHEHVERNSLDYAKSKLEELS  
RIMHDEVSETENIRKNLAIERMIEGCEILLDTSQTFVRQGSLIQVPMSEKGKITRGRLG  
SLSLKKEGERQCFLFSKHLICTRGSGGKLHLTKNGVISLIDCTLLEEPSTEEEEAKGSG  
QDIDHLDLDFKIGVEPKDSPPFTVILVASSRQEKAAWTSDISQCVDNIRCNGLMNNAFEENS

KVTPQMIKRTREGTREAEMSRSDASLYCDDVDIRFSKTMNSCKVLQIRYASVERLLERL  
TDLRFLSIDFLNTFLHSYRVFTTAIVVLDKLITIKKPIAIPARWLSLELLFASGQNN  
KLLYGEPPKSPRATRKFSSPPLSITKTSSPSRRRKLNLNIPITGGKALDLAALSCNSN  
GYTSMYSAMPFSKATLDTSKLYVSSFTNKIPDEGDTTPEKPEDPSALSKQSSEVSMRE  
ESDIDQNSDDGDTETSPTKSPTTPKSVKNKNSSEFPLFSYNNGVVMTSCRELDNNRSAL  
SAASAFAIATAGANEGTPNKEKYRRMSLASAGFPDQRNGDKEFVIRRAATNRVLNVLRH  
WVSKHSQDFETNDELCKKVIGFLEEVMHDPELLTQERKAAANIIRTLTQEDPGDNQITL  
EITQMAEGVKAEPFENHSALEIAEQLTLLDHLVFKKIPYEEFFGQGMKLEKNERTPYIM  
KTTKHFNDISNLIASEIIRNEDINARVSAIEKWAVADICRCLHNYNAVLEITSSMNRSA  
IFRLKKTWLKVSQTKALIDKLQKLVSEGRFKNLREALKNCPPCVPYLGMYLTDLAFI  
EEGTPNYTEDGLVNFSSKMRMISHIIREIRQFQQTAYKIEHQAKVTQYLLDQSFVMDDEESL  
YESSLRIEPKLPT

>sp|O14827|RGRF2\_HUMAN Ras-specific guanine nucleotide-releasing factor 2 OS=Homo sapiens  
GN=RASGRF2 PE=1 SV=2

MQKSVRYNEGHALYLAFLARKEGTRKGFSLSKTAEASRWHEKWFALYQNVLFYFEGEQSC  
RPAGMYLLEGCS CERTPAPPRAGAGQGGVRDALDKQYYFTVLFHGEQKPLELRCEEEQD  
GKEWMEATHQASYADILIEREVLQKQYIHLVQIVETEKIAANQLRHQLEDQDTEIERLKS  
EIIALNKTKERMPYQSNQEDEDPIKKIKKVQSFMRGWLCCRKWKTIQDYICSPHAES  
MRKRNIQVFTMVEAESEYVHQLYLIVNGFLRPLRMAASSKKPPI SHDDVSSI FLNSETIM  
FLHEIFHQGLKARIANWPTLILADLFDILLPMLNIYQEFVRNHQYSLQVLANCKQNRD  
KLLKQYEANPACEGRMLETFLTYPMFQIPRYIITHELLAHTPHEHVERKSLEFAKSKLE  
ELSRVMHDEVSDTENIRKNLAIERMIVEGCDILLDTSQTFIRQGS LIQVPSVERGKLSKV  
RLGSLSLKKEGERQCFLFTKHFLICTRSSGGKLHLLKTGGVLSLIDCTLIEEPDASDDDS  
KSGSQVFGHLDFKIVVEPPDAAAFVTVLLAPSRQEKAAWMSDISQCVDNIRCNGLMTIVF  
EENSKVTVPHMIKSDARLHKDDTDICFSTLNSCKVPQIRYASVERLLERLTDLRFLSID  
FLNTFLHTYRIFTAAVVLGKLSDIYKRPFTSIPVRSLELFFATSQNNRGEHLVDGKSPR  
LCRKFSPPPLAVSRTSSPVRARKLSLTSPLSKIGALDLTSSSPTTTTQSPAASPPPH  
TGQIPLDLSRGLSSPEQSPGTVEENVNPRVDLCNKLKRSIQKAVLESAPADRAGVESSP  
AADTTELSPCRSPSTPRHLRYRQPGGTADNAHCSVSPASAFAIATAAAGHGSPPGFNNT  
ERTCDKEFIIRRTATNRVLNVLRHVWSKHAQDFELNNELKMNVLNLL EEVLRDPDLLPQE  
RKAANILRALSQDDQDDIHLKLEDIIQMTDCMKAECFESLSAMELAEQITLLDHVIFRS  
IPYEEFLGQGMKLDKNERTPYIMKTSQHFNDMSNLVASQIMNYADVSSRANAIEKWAV  
ADICRCLHNYNGVLEITSALNRS AIYRLKKTWAKVSKQTKALMDKLQKTVSSEGRFKNLR  
ETLKNCPNPAVPYLGMYLTDLAFIEEGTPNFTEGLVNFSSKMRMISHIIREIRQFQQTSY  
RIDHQP KVAQYLLDKDLIIDEDTLYELSLKIEPRLPA

>sp|Q2M5E4|RGS21\_HUMAN Regulator of G-protein signaling 21 OS=Homo sapiens GN=RGS21 PE=2  
SV=1

MPVKCCFYRSPTAETMTWSENMDTLLANQAGLDAFRIFLKSEFSEENVEFWLACEDFKKT  
KNADKIASKAKMIYSEFIEADAPKEINIDFGTRDLISKNIAEPTLKC FDEAQKLIYCLMA  
KDSFPRFLKSEIYKKLVNSQQVPNHKKWLPFL

>sp|Q8NE09|RGS22\_HUMAN Regulator of G-protein signaling 22 OS=Homo sapiens GN=RGS22 PE=1  
SV=3

MPKRLTAEPPTITEEEFEDSLATDDFLVDYFNEFLSLPTFSEAIRFNADYGVFEVANDA  
PQFLEKQLKKILQNQQPRNPIYDVVRKGKNEVKPVQMNAPDEDETINVNYNIMCLSREEG

IKWIKKERLPAFLESDCYFEYRLAKLVSQVRWSKSGMNFTVGSNFSPIVKKPPSLPPPA  
TEEDNLVIMKKFYVSLGEASYTQTKDWFALAKSQQTSTFSLPCCVPYNKLKSPAISV  
SENFIFDDGVHPRTKKDPSTKNLISEEEEEEEEEVSVSLQDTPSQALLRVYLEKKQD  
VDESLTMHFSTCEEFLSSYIYFILRGAIQQIVGKPVGETPDYINFNNITKVSFDDCFESI  
HGKNFLSELVQTTKERSEEIEQTSLSKNEASGPESRADWCISHRTYDIGNRKEFERFKK  
FIKGTLGERYWWLWMDIERLKVLPGRHQRHLEKMKKCYLVSNGDYILSAEILSKFKLL  
DGSQWNEEHLRNIQSEVLKPLLLYWAPRFCVTHSASTKYASAELKFWHLRQAKPRKDIDP  
FPQMATLLPLRPKSCIPQIPEIQKEEFSLSQPPKSPNKSPEVKTATQKPWKRELLYPGSS  
KDDVIEKSGSKYMESSKVIHLTSFTDISECLKPQLDRRYAYTEEPVKTVSDVGALGGSD  
MENLLQSLYVENRAGFFFTKFCEHSGNKLWKNVYFWFDLQAYHQLFYQETLQPFKVKQK  
AQYLFATYVAPSATLDIGLQQEKKKEIYMKIQPPFEDLFDTAEEYILLLLLEPWTMVK  
DQIAYKKVELVEETRQLDSTYFRKLQALHKETFSKKAEDTTCEIGTGILSLSNVSKRTEY  
WDNVP AEYKHFKFSDLLNNKLEFEHFRQFLETHSSMDLMCWTDIEQFRRITYRDRNQK  
AKSIYIKNKYLNKKYFFGPNPASLYQQNQVMHLSGGWGKILHEQLDAPVLVEIQKHVQN  
RLENVWLPLFLASEQFAARQKIKVQMKDIAEELLQKAEKKIGVWKPVESKWISSCKII  
AFRKALLNPVTSRQFQRFVALKGDLENGLLFWQEVQKYKDLCHSHCDESVIQKKITTI  
NCFINSSIPPALQIDIPVEQAQKIIHRKELGPYVFREAQMTIFGVLFKFWPQCFEFRKN  
LTDENIMSVLERRQEYNKQKKKLAVLEDEKSGKDGIKQYANTSVPAIKTALLSDSFLGLQ  
PYGRQPTWCYSKYIEALEQERILLKIQEELEKKL FAGLQPLTNFKASSSTMSLKKNMSAH  
SSQK

>sp|P41220|RGS2\_HUMAN Regulator of G-protein signaling 2 OS=Homo sapiens GN=RGS2 PE=1  
SV=1

MQSAMFLAVQHDCRPMDSAGSGHKSEEKREKMKRTLLKDWKTRLSYFLQNSSTPGPKT  
GKSKSQQAFIKPSPEEAQLWSEAFDELLASKYGLAAAFRAFLKSEFCEENIEFWLACEDFK  
KTKSPQKLSSKARKIYTDIEKEAPKEINIDFQTKLIAQNIQEATSGCFTTAQKRVS  
MENNSYPRFLESEFYQDLCKKPQITTEPHAT

>sp|P49798|RGS4\_HUMAN Regulator of G-protein signaling 4 OS=Homo sapiens GN=RGS4 PE=1  
SV=1

MCKGLAGLPASCLRSAKDMKHLRGFLQKSDSCEHNSSHKKDKVVICQRVSQEEVKKWA  
ESLENLISHECGLAAFAFLKSEYSEENIDFWISCEEYKKIKSPSKLSPKAKKIYNEFIS  
VQATKEVNLDSCTREETSRNMLEPTITCFDEAQKKIFNLMEKDSYRRFLKSRFYLDLVNP  
SSCGAEKQKGAKSSADCASLVPQCA

>sp|P49802|RGS7\_HUMAN Regulator of G-protein signaling 7 OS=Homo sapiens GN=RGS7 PE=1  
SV=3

MAQGNNYGQTSNGVADESPNMLVYRKMEDVIARMQDEKNGIPIRTVKSFLSKIPSVFSGS  
DIVQWLIKNLTIEDPVEALHLGLTMAAHGYFFPISDHVLTLDKDGTFYRFQTPYFWPSNC  
WEPENTDYAVYLCKRTMQNKARLEADYEAESLARLQRAFARKWEFIFMQAEAQAKVDKK  
RDKIERKILDSQERAFWDVHRPVPVPGCVNTTEVDIKSSRMNRNPHKTRKSVYGLQNDIRSH  
SPHTPTPETKPTTEDELQQQIKYWQIQDRHRLKMSKVADSLLSYTEQYLEYDPFLLPP  
DPSNPWLSDDTTFWEEASKEPSQQRVKRWGFGMDALKDPVGREQFLKLESEFSSENL  
RFWLAVEDLKKRPIKEVPSRVQEIWQEFAPGAPSAINLDSKSYDKTTQNVKEPGRYTFE  
DAQEHIYKLMKSDSYPRFIRSSAYQELLQAKKSGNSMDRRTSFEKFAQNVGRNIPIFPC  
HKNCTPTLRASTNLL

>sp|P57771|RGS8\_HUMAN Regulator of G-protein signaling 8 OS=Homo sapiens GN=RGS8 PE=1 SV=1

MAALLMPRRNKGMRTRLGCLSHKSDSCSDFTAILPDKPNRALKRLSTEEATRWADSFDVL  
LSHKYGVAAFRAFLKTEFSEENLEFWLACEEFKTRSTAKLVSKAHRIFEEFVDVQAPRE  
VNIDFQTREATRKNLQEPSLTCFDQAQGVHSLMEKDSYPRFLRSKMYLDLLSQSQRRLS

>sp|O75916|RGS9\_HUMAN Regulator of G-protein signaling 9 OS=Homo sapiens GN=RGS9 PE=1 SV=1

MTIRHQGQQYRPRMAFLQKIEALVKDMQNPETGVRMQNQRVLTVSPHAMTGSDVLQWIV  
QRLWISSLEAQNLFIVRYGYIYPLQDPKNLILKPDGSLYRFQTPYFWPTQQWPAEDTD  
YAIYLAKRNIKKKGILEEYKENYNFLNQKMNYKWDFVIMQAKEQYRAGKERNKADRYAL  
DCQEKAYWLVRHRCPPGMDNVLDYGLDRVTNPNEVKVNQKQTVVAVKKEIMYYQQALMRST  
VKSSSVSLGGIVKYSEQFSSNDAIMSGCLPSNPWITDDTQFWDLNAKLVEIPTKMRVERWA  
FNFSELIRDPKGRQSFQYFLKKEFSGENLGFWEACEDLKYGDQSKVKEKAEEIYKFLAP  
GARRWINIDGKTMIDTVKGLKHPHRYVLDAAQTHIYMLMKDSYARYLKSPIYKMLAKA  
IEPQETTKKSSTLPFMRRHLRSPSPVILRQLEEEAKAREAANTVDITQPGQHMAPSPHL  
TVYTGTCPMPSPSPSSCRSPRKPFASPSRFIRRPSTTICPSPIRVALESSSGLEQKG  
ECSGSMAPRGPSVTESSEASLDSWPRSRPRAPPKARMALSFSRFLRRGCLASPVFARLS  
PKCPAVSHGRVQPLGDVGQQLPRLKSKRVANFFQIKMDVPTGSGTCLMSEDAGTGESGD  
RATEKEVICPWESL

>sp|Q6NTF9|RHBD2\_HUMAN Rhomboid domain-containing protein 2 OS=Homo sapiens GN=RHBDD2 PE=2 SV=2

MAASGPGCRSWCLCPEVPSATFFTALLSLLVSGPRLFLLQQPLAPSGLTALKSEALRNWQV  
YRLVTYIFVYENPISLLCGAIIWRWFAGNFERTVGTVRHCFFTVIFAIFSAIIFLSFEAV  
SSLSKLGEVEDARGFTPVAFAMLGVTTVRSRMRRALVFGMVVPSVLVPWLLLGASWLIPQ  
TSFLSNVCGLSIGLAYGLTYCYSIDLSEVALKLDQTFPFSLMRRISVFKYVSGSSAERR  
AAQSRKLNVPVGSYPTQSCHPHLSPSHPVSQTQHASGQKLASWPCTPGHMPTLPPYQPA  
SGLCYVQNHFGPNPTSSSVYPASAGTSLGIQPPTPVNSPGTVYSGALGTPGAAGSKESSR  
VPMP

>sp|O94955|RHBT3\_HUMAN Rho-related BTB domain-containing protein 3 OS=Homo sapiens GN=RHOBTB3 PE=1 SV=2

MSIHIVALGNEGDTFHQDNRPGLIRTYLGRSPLVSGDESSLLNAASTVARPVFTEYQA  
SAFGNVKLVVHDCPVWDIFDSDWYTSRNLIGGADIIVIKYNVNDKFSFHEVKDNYIPVIK  
RALNSVPVIAAAGTRQNEELPCTCPLCTSDRGSCVSTTEGIQLAKELGATYLELHSLDD  
FYIGKYFGGVLEYFMIQALNQKTSEKMKKRKMSNSFHGIRPPQLEQPEKMPVLKAEASHY  
NSDLNLLFCCQCVDVVFYNPNLKKVVEAHKIVLCAVSHVFMLLFNVKSPTDIQDSSIIR  
TTQDLFAINRDTAFPGASHESGNPLRVIVKDALFCCLSDILRFIYSGAFQWEELEED  
IRKKLKDSGDVSNVIEKVCKILKTPGKINCLRNCKTYQARKPLWFYNTSLKFFLNKPMLA  
DVFVEIQGTTVPAHRAILVARCEVMAAMFNGNYMEAKSVLIPVYGVSKETFLSFLEYLYT  
DSCCPAGIFQAMCLLCAEMYQVSRLQHICELFIITQLQSMPSRELASMNLDIVDLLKKA  
KFHHSCLSTWLLHFATNYLIFSQKPEFQDLSVEERSFVEKHRWPSNMYLKQLAEYRKY  
IHSRKRCCLVM

>sp|Q96CC6|RHDF1\_HUMAN Inactive rhomboid protein 1 OS=Homo sapiens GN=RHBDF1 PE=1 SV=2

MSEARRDSTSSLQRKKPPWLKLDIPSAVPLTAEEPSFLQPLRRQAFLRSVSMPAETAHIS  
SPHHELRRPVLRQTSITQTIIRGTADWFGVSKDSDSTQKWQRKSIHCSQRYGKLKPQV

LRELDLPSQDNVSLTSTETPPPLYVGPCQLGMQKIIDPLARGRAFRVADDTAEGLSAPHT  
PVTPGAASLCSFSSSRSGFHRLPRRRKRESVAKMSFRAAAALMKGRSVRDGTFRRAQRRS  
FTPASFLEEDTTDFPDELDTSFFAREGILHEELSTYPDEVFESPSEAAALKDWEKAPEQAD  
LTGGALDRSELESHLMLPLERGWKQKEGAAAPQPKVRLRQEVVSTAGPRRGQRIAVPV  
RKLFAREKRPYGLGMVGRLTNRTYRKRIDSFVKRQIEDMDHRRPFFTYWLTfVHSLVTIL  
AVCIYGIAPVGFSQHETVDSVLNRNGVYENVKYVQQENFWIGPSSEALHLGAKFSPCMR  
QDPQVHSFIRSAREKHSACVRNDRSGCVQTSEEECSSTLAVVWKWPIHPSAPELAGH  
KRQFGSVCHQDPRVCEPSSDPHEWPEDITKWP ICTKNSAGNHTNHPHMDCVITGRPCC  
IGTKGRCEITSREYCDFMRGYFHEEATLCSQVHCMDVCGLLPFLNPEVPDQFYRLWLSL  
FLHAGILHCLVSICFQMTVLRDLEKLAGWHRIATIIYLLSGVTGNLASAIFLPYRAEVGPA  
GSQFGILACLVELFQSWQILARPWRAFFKLLAVVLFLLTFGLLPWIDNFAHISGFISGL  
FLSFAFLPYISFGKFDLYRKRCQIIIFQVVFLGLLAGLVVLFYVYPVRCEWCEFLTCIPF  
TDFCEKYELDAQLH

>sp|Q02161|RHD\_HUMAN Blood group Rh(D) polypeptide OS=Homo sapiens GN=RHD PE=1 SV=3

MSSKYPRSVRRCLPLWALTLEAALILLFYFFTHYDASLEDQKGLVASYQVGQDLTVMAAI  
GLGFLTSSFRRHSWSSVAFNLFMLALGVQWAILLDGFLSQFSPGKVITLFSIRLATMSA  
LSVLISVDAVLGKVNLAQLVVMVLEVTALGNLRMVISNIFNTDYHMNMHIYVFAAYFG  
LSVAWCLPKPLPEGTEKDQTATIPSLSAMLGALFLWMFWPSFNSALLRSPIERKNAVFN  
TYAVAVSVVTAISGSSLAHPQKGISKTYVHSAVLAGGVAVGTSCHLIPSPWLAMVLGLV  
AGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIIYIVLLVLDTVGAGNGMIG  
FQVLLSIGELSLAIVIALMSGLLTGLLLNLKIWKAPHEAKYFDDQVFWKPHLAVGF

>sp|Q13017|RHG05\_HUMAN Rho GTPase-activating protein 5 OS=Homo sapiens GN=ARHGAP5 PE=1  
SV=2

MMAKNKEPRPPSYTISIVGLSGTEKDKGNCVGKSCLCNRFVRSKADEYYPEHTSVLSTI  
DFGGRVVNNDHFLYWGDIIQNSDGECKIHVIEQTEFIDDQTFLPHRSTNLQPYIKRAA  
ASKLQSAEKLMIYICTDQLGLEQDFEQQMPEGKLNVDGFLLCIDVSQGCNRKFDDQLKFV  
NNLFVQLSKSKKPVIIAATKCDECVDHYLREVQAFASNKKNLLVETSARFNVNIETCFT  
ALVQMLDKTRSKPKIIPYLDAYKTQRQLVVTATDKFEKLVQTVRDYHATWKTVSNKLNH  
PDYEEYINLEGTRKARNTFSKHIEQLKQEHIRKRREEYINTLPRAFNTLLPNLEEIEHLN  
WSEALKLMEKRADFQLCFVVLEKTPWDETDHIDKINDRRIPFDLLSTLEAEKVYQNHVQH  
LISEKRRVEMKEKFKKTLEKIQFISPGQPWEEVMCFVMEDEAYKYITEADSKEVYGRHQR  
EIVEKAKEEFQEMLFELSELFDLNLATPSSDKMSEIHTVLSEEPYKALQKLAPDRES  
LLKHIGFVYHPTKETCLSGQNCTDIKVEQLLASSLLQLDHGRLRLYHDSTNIDKVNLF  
LGKDGLAQELANEIRTQSTDDEYALDGKIYELDLRPVDAKSPYFLSQLWTAAFKPHGCFC  
VFNSIESLSFIFEFIGIRTEASQIRKDKYMANLPFTLILANQRDSISKNLPILRHQGQQ  
LANKLQCPFVDVPAGTYPRKFNETQIKQALRGVLESVKHNLVVSPIIPANKDLSEADLRI  
VMCAMCGDPFSDVLDLSPFLDSHSCSAAQAGQNNSLMLDKIIGEKRRRIQITILSYHSSI  
GVRKDELVHGYYLVYSKRKASMGMLRAFLSEVQDTIPVQLVAVTDSQADFFENEAIKEL  
MTEGEHIATEITAKFTALYSLSQYHRQTEVFTLFFSDVLEKKNMIENSYLSDNTRSTHQ  
SEDVFLPSPRDCFPYNNYPDSDDDTEAPPPYSPIGDDVQLLPTPSDRSRYRLDLEGNEYP  
IHSTPNCHDHERNHKVPPIKPKPVVPKTNVKKLDPNLLKTIEAGIGKNPRKQTSRVPLA  
HPEDMDPSDNYAEPIDTIFKQKGYSDIYVVPDDSQNRIRNSFVNNTQGDEENGFSR  
TSKSHGERRPSKYKYKSKTLFSKAKSYRRTHSDASDDEAFTTSKTKRKGHRGSEEDPL  
LSPVETWKGIDNPAITSDQELDDKKMKKKTHKVKEDKKQKKKTKNFNPPTRRNWESNYF

GMPLQDLVTAEKPIPLFVEKCFEIEDTGLCTEGLYRVSGNKTDQDNIQKQFDQDHNINL  
VSMEVTVNAVAGALKAFFADLPDPLIPYSLHPELLEAAKIPDKTERLHALKEIVKKFHPV  
NYDVFYRIVITHLNRVSQQHKINLMTADNLSICFWPTLMRPDFENREFLSTTKIHQSVVET  
FIQQCQFFFYNGEIVETTNIVAPPPSPNGQLVEPMVPLQLPPPLQPQLIQPQLQTDPLG  
II

>sp|Q96QB1|RHG07\_HUMAN Rho GTPase-activating protein 7 OS=Homo sapiens GN=DLC1 PE=1 SV=4

MSVAIRKRSWEEHVTHWMGQPFNSDDRNTACHHGLVADSLQASMEKDATLNVDRKEKCVS  
LPDCCHGSELDRDFGRPMGHLSKDVDENDSEHEGEDQFLSLEASTETLVHVSDENNADLC  
LTDDKQVLNTQGQKTSQGQMIQGAGSLEKALPIIQSNQVSSNSWGIAGETELALVKESGE  
RKVTDISKSLELCNEISLSEIKDAPKVNADTLNVKDIAPEKQLLNSAVIAQQRRKPDP  
PKDENERSTCNVQNEFLDTPCTNRGLPLLKTDFGSCLLQPPSPNGMSAENGLEKSGFS  
QHQNKSPPKVKADGMQCLQLKETLATQEPTDNQVRLRKRKEIREDRDRARLDSMVLLIM  
KLDQLDQDIENALSTSSSPSGTPTNLRRHVPDLESGSESGADTISVNQTRVNLSSDTEST  
DLPSSTPVANSGTKPKTTAIQIGISEKEKAEIEAKEACDWLRATGFPQYAQLYEDFLFPID  
ISLVKREHDFLDRDAIEALCRRNLNLNKCVMKLEISPHRKRSDDSEDEPCAISGKWF  
QRDSKRWSRLEEDVFSPKQDLVPGSPDDSHPKDGPSPGGTLMDLSERQEVSSVRSLSST  
GSLPSHAPPSEDAATPRTNSVISVCSNNLAGNDDSFGLSPSPKELSSFSFSMKGHEKTA  
KSKTRSLKRMESLKLKSSHHSHKHAPSGLLIISGPILQEGMDEEKLKQLNCEISALN  
GNRINVPMVRKRSVSNSTQTSSSSSQSETSSAVSTPSPVTRTRSLSACNKRVMYLEGFD  
PFNQSTFNNVVEQNFKNRESYPEDTVFYIPEDHKPGTFPKALTNGSFSPSGNNGSVNWRT  
GSFHGPGHISLRRENSDSPKELKRRNSSSSMSSRLSIYDNVPGSILYSSSGDLADLENE  
DIFPELDDILYHVKGMQRIVNQWSEKFSDEGSDSALDSVSPCPSSPKQIHLDVDNDRTT  
PSDLDTGNSLNEPEEPSEIPERRDSGVGASLTRSNRHLRWHSFQSSHRPSLNSVSLQI  
NCQSV AQMNLQKYSLLKL TALLEKYTPSNKHGFSWAVPKFMKRIKVPDYKDRSVFGVPL  
TVNVQRTGQPLPQSIQQAMRYLRNHCLDQVGLFRKSGVKSRTIQLRQMNEGAI DCVNYEG  
QSAYDVADMLKQYFRDLPEPLMTNKLSETFLQIYQYVPKDQRLQAIAAIMLLPDENREV  
LQTL LYFLSDVTA AVKENQMTPTNLAVCLAPSLFHLNLT KRENSSPRVMQRKQSLGKPDQ  
KDLNENLAATQGLAHMIAECKLKFVPEMSRCRNSYTEQELKPLTLEALGHLGNDD SAD  
YQHFLQDCVDGLFKEVKEKFKGWVSYSTSEQAELSYKKVSEGPPRLRLWRSVIEVPAVPEE  
ILKRLLEQHLWDVDLLDSKVI EILDSQTEIYQYVQNSMAPHPARDYVVLRTWRTNLPKG  
ACALLT SVDHDRAPVVGVRVNVLLSRYLIEPCGPGSKLTYMCRVDLRGHMPEWYTKSF  
GHLCAA EVVKIRDSFSNQNTETKDTKSR

>sp|Q8N392|RHG18\_HUMAN Rho GTPase-activating protein 18 OS=Homo sapiens GN=ARHGAP18 PE=1  
SV=3

MSWLSSSQGVVLTAYHPSGKDQTVGNSHAKAGEEATSSRRYGQYTMNQESTTIKVMKPP  
FDRSISQDSLDELSMEDYWIELENIKKSENSQEDQE VVVVKEPDEGELEEEWLKEAGLS  
NLFGESAGDPQESIVFLSTLTRTQAAAVQKRVTVSQTLRKKNKQYQIPDVRDIFAQQRE  
SKETAPGGTESQSLRTNENKYQGRDDEASN LVGEEKLIPPEETPAPETDINLEVSFAEQ A  
LNQKESSEKIQKSKGDDATLPSFRLPKDKTGTTTRIGDLAPQDMKKVCHLALIELTALYD  
VLGIELKQQKAVKIKTKDSGLFCVPLTALLEQDQRKVPGMRIPLIFQKLISRIEERGLET  
EGLLRIPGAAIRIKNLCQELEAKFYEGTFNWESVKQHDAASLLKLFIRELPQPLLSVEYL  
KAFQAVQNLPTKKQQLQALNLLVILLPDANRDTLKALLEFLQRVIDNKEKNKMTVMNVAM  
VMAPNLFMCHALGLKSSEQREFVMAAGTANTMHLLIK YQKLLWTIPKFI VNQVRKQNTEN  
HKKDKRAMKKLLKKMAYDREKYEKQDKSTNDADVPQGVIRVQAPHL SKVSMAIQLTEELK

ASDVLARFLSQESGVAQTLKKGEVFLYEIGGNIGERCLDDDTYMKDLYQLNPNAEWIKS  
KPL

>sp|Q7Z5H3|RHG22\_HUMAN Rho GTPase-activating protein 22 OS=Homo sapiens GN=ARHGAP22 PE=1  
SV=1

MLSPKIRQARRARSKSLVMGEQSRSPGRMPCPHRLGPVLKAGWLKKQRSIMKNWQQRWFV  
LRGDQLFYFKDKDEIKPQGFISLQGTQVTELPFGPEDPGKHLFEISPGGAGEREKVPANP  
EALLLMASSQRDMEDWVQAIRRVIWAPLGGGIFGQRLEETVHHERKYGPRLAPLLVEQCV  
DFIRERGLTEGLFRMPGQANLVRDLQDSFDCGEKPLFDSTTDVHTVASLLKLYLRELPE  
PVVPFARYEDFLSQAQLLTKEDEGTELEAKQVSNLPQANYNLLRYICKFLDEVQAYSNV  
NKMSVQNLATVFGPNILRPQVEDPVTIMEGTSVLQHLMTVLIRKHSQLFTAPVPEGPTSP  
RGGLQCAVGWGSEEVTRDSQGEPPGGPLPAHRTSSLDGAAVAVLSRTAPTGPGRCSGPK  
KVQTLPSWKSSFRQPRSLSGSPKGGSSLEVPIISSGGNWLMLGLSSLRGHRASSGDRL  
KDSGSVQRLSTYDNVPAPGLVPGIPSVASMAWSGASSSESSVGGSLSSCTACRASDSSAR  
SSLHTDWALEPSPLSSSEDPKSLDLDHSMDEAGAGASNSEPSPTREHARRSEALQ  
GLVTELRAELCRQRTYERSVKRIEEGSADLRKMSRLEEELDQEKKKYIMLEIKLRNSE  
RAREDAERRNQLLQREMEEFFSTLGSLTVGAKGARAPK

>sp|Q2M1Z3|RHG31\_HUMAN Rho GTPase-activating protein 31 OS=Homo sapiens GN=ARHGAP31 PE=1  
SV=2

MKNKGAKQKLKRKAASAFGCDLTEYLESSGQDVPYVLKSCAEFIETHGIVDGIYRLSGV  
TSNIQRLRQEFQSDQCPDLTREYVLQDIHCVGSLCKLYFRELPNPLTYELYEKFTAVS  
HCPEEGQLARIQNVIELPPSHYRTLEYLIRHLAHIAFSSTNMHARNLALVWAPNLLR  
SKEIEATGCNGDAFLAVRVQVVIEFILNHVDQIFNNGAPGSELDENRPIMKSLTLPA  
LSLPMKLVSLAAQARSLATNHPARKERRENSLPEIVPPMGTLFHTVLELPDNKRKLSSK  
SKKWSIFNLGRSGSDSKSLSRNGSVFVRGQRLSVEKATIRPAKSMDSLCSVPVEGKET  
KGNFNRTVTTGGFFIPATKMHSTGTGSSCDLTKQEGEWGQEGMPGAEGGFVSSDRSHL  
QGAQARPPPEQLKVRFPVEDPESEQTAPKMLGMFYTSNDSPSKSVFTSSLFQMEPSPRNQ  
RKALNISEPFVSVPLRVSAVISTNSTPCRTPPKELQSLSSLEEFSEFHGSESGGWPEEEK  
PLGAETSAASVPKAGLEDAKAVPEAPGTVECSKGLSQEPGAHLEEKKTPESSLSSQHLN  
ELEKRPNPEKVVEEGREAGEMESSTLQESPRARAEAVLLHMEDEDDLANALIWPEIQQEL  
KIIIESEELSSLPPPALKTSPIQPILESSLGPFIPEPPGSLPCGSFPAPVSTPLEVWTR  
DPANQSTQGASTAASREKPEPEQGLHPDLASLAPLEIVPFKASPQATVEVGGPGNLSPP  
LPPAPPPPTLEESTPVLLSKGPPEREDSSRKLRTDLYIDQLKSQDSPEISSLCQGEEAT  
PRHSDKQNSKNAASEGKCGFPSPTREVEIVSQEEEDVTHSVQEPSDCDEDDTVTDIAQH  
GLEMVEPWEEPQWVTSPLHSPTLKAHKAQVQGLQGHQLEKRLSHRPSLRQSHSLDSKPT  
VKSQWTLVEPSSSSCANLETERNSDPLQPQAPREITGWDEKALRSFREFSGLKGAEAPP  
NQKGPSGVQPNPAETSPISLAEGKELGTHLGHSPPQIRQGGVPGPESSKSSPSVQDSTS  
PGEHPAKLQLKSTECPPKGNRPSSNLDPAPIADLFWFENVASFSSPGMQVSEPGDP  
KVTWMTSSYCKADPWRVYSQDPQDLDIVAHALTGRNSAPVSVSAVRTSFMVKMCQARAV  
PVIPPKIYQTQIPQLPSQSSGENGVQLERSQEGPSSTSGTTQKPAKDDSPSSLESSKE  
EKPKQDPGAIKSSPVDATAPCMCEGPTLSPEPGSSNLLSTQDAVVQCRKRMSETEPSGDN  
LLSSKLERPSGGSKPFHRSRPGRPQSLILFSPFPIMDHLPPSSTVTDISKVLLSPIRSPT  
QTVSPGLLCGELAENTWVTPEGVTLRNKMTIPKNGQRLETSTSCFYQPQRSVILDGRSG  
RQIE



>sp|Q9NRY4|RHG35\_HUMAN Rho GTPase-activating protein 35 OS=Homo sapiens GN=ARHGAP35 PE=1 SV=3

MMMARKQDVRIPTYNISVVGLSGTEKEKGQCGIGKSCLCNRFVRPSADEFHLDHTSVLST  
SDFGGRVVNNDHFLYWGEVSRSLDCVECKMHIVEQTEFIDDDQTFQPHRSTALQPYIKRA  
AATKLASAEKLMYFCTDQLGLEQDFEQKQMPDGKLLVDGFLLGIDVSRGMNRNFDQLKF  
VSNLYNLAKTKKPIVVVLTKCDEGVERYIRDAHTFALSKKNLQVVETSARSNVNDLAF  
STLVQLIDKSRGKTKIIPYFEALKQSSQIATAKDKEYEWLVSRIKNNHNNWLSVSRKMQ  
ASPEYQDYVYLEGTQKAKKFLQHIHRLKHEHIERRRKLILAALPLAFEALIPNLDEIDH  
LSCIKAKKLETKPEFLKWFVVLEETPWDATSHIDNMENERIPFDLMDTVPAEQLYEAHL  
EKLRNERKRVEMRRAFKENLETSPFITPGKPWEARSFIMNEDFYQWLEESVYMDIYGKH  
QKQIDKAKEEFQELLEYSELYEELDAKPSKEKMGVIQDVLGEEQRFKALQKLQAER  
DALILKHIHFVYHPTKETCPCSPACVDAKIEHLISSRFIRPSDRNQKNSLSDPNIDRINL  
VILGKDGLARELANEIRALCTNDDKYVIDGKMYELSLRPIEGNVRLPVNSFQTPTFPQPHG  
CLCLYNSKESLSYVVESEIEKSRESTLGRRDNHLVHLPLTLILVNKRGDTSGETLHSLIQQ  
GQQIASKLQCVFLDPASAGIGYGRNINEKQISQVLKGLDSKRNLNLVSSTASIKDLADV  
DLRIVMCLMCGDPFSADDILFPVLQSQTCKSSHCGSNNSVLELPIGLHKKRIELSVLSY  
HSSFSIRKSRLVHGIVFYSAKRKASLAMLRAFLCEVQDIPIQLVALTDGAVDVLNDL  
SREQLTEGEEIAQEIDGRFTSIPCSQPQHKLEIFHPFFKDVVEKKNIIEATHMYDNAAEA  
CSTTEEVFNSPRAGSPLCNSNLQDSEEDIEPSYSLFREDTSLPSLSKDHSLKSMEELEGND  
GLSFIMSNFESKLNNKVPVPKPKPPVHFEITKGDLSYLDQGHRDQGRKSVSSSPWLPQD  
GFDPSDYAEPMDAVVKPRNEENIYSVPHDSTQGKIITIRNINKAQSGSGNGSDSEMDT  
SSLERGRKVSIVSKPVLRYRTRCTRLGRFASYRTSFSVGSDDDELGPIRKKEEDQASQGYKG  
DNAVIPYETDEDPRRRNILRSLRRNTKKPKPKPRPSITKATWESNYFGVPLTTVVTPKEP  
IPIFIERCIEYIEATGLSTEGIYRVSGNKSEMESLQRQFDQDHNLDLAEKDFTVNTVAGA  
MKSFSELDPDLPYPNMQIDLVEAHKINDREQKLHALKEVLKKFPKENHEVFYKVISHLN  
KVSHNNKVNLMTSENLSICFWPTLMRPDFSTMDALTATRTYQTIIELFIQQCPFFFYNRP  
ITEPPGARPPSSAVASTVPFLTSTPVTSQPSPPQSPPTPQSPMQPLLPSQLQAEHTL

>sp|A8MT19|RHN2P\_HUMAN Putative rhophilin-2-like protein RHPN2P1 OS=Homo sapiens  
GN=RHPN2P1 PE=5 SV=2

MLKEELEGLNISVGIIYQNTTEAFTVPLIPLGLKETKDIDFSVILKDFILEHYSEDGYLYE  
DEITDLMQDPRQACRTPSRDEARVELLMTYFIQLGFAWIRFKKYNTSPRIFFYRYDSLNGV  
LVSQQNLLLEKASVLFNTGALYTQIGTWRYWQMAGLQSAIDAFQRAAGVLNLYKETFTH  
TPSYDMSPAMLSVLVKMMLTQAQESVFEKISLPGIRNEFFMLVKVAQEAAGVEVYQQLH  
AAMSQALVKENIPYSWASLACVKAHHYTAHYFTAILLDHVKVPGMDLDHQEKLSQL  
YDHMPGLTPLATLKNDDQRRQLGKSHLHRAMAHHEESVREASLCKKLRSIEVLQKVLCA  
AQERSRLTYAQHQEDDLLNLIHAPSVVAKTEQEPKGPLSVFLANKQWMPPRSNNRFTAEE  
GDLGFTLRGNAPVEVHFLDPYCSALVAGARGGDIYSIQLVDCKWLTVEVMKLLKSFGE  
DEIEMKVVSLLDSTSSMHNKSATYSVGMQKTYSMICLAIDDDNKTDKTQKISKKLSFSLW  
GTNKNRQKSASTLCLPSVGAARPQVKKKLSPFSLNDSSSY

>sp|Q9BSD3|RHNO1\_HUMAN RAD9, HUS1, RAD1-interacting nuclear orphan protein 1 OS=Homo  
sapiens GN=RHNO1 PE=1 SV=1

MPPRKRRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPD  
FDTAAGSLFPAYQKHQNRARHSSRKPTTSKFPHLTFESPQSSSSETLGIPLIRECPSESE  
KDVSRRLPLVPVLSQSCGNMSVQALQSLPYVFIPPDITPESSSVKEELIPQDQKENSLL

SCTLHTGTPNSPEPGPVLVKDTPEDKYGIKVTWRRRQHLLAYLRERGLSRSQFLVKS

>sp|P08134|RHOC\_HUMAN Rho-related GTP-binding protein RhoC OS=Homo sapiens GN=RHOC PE=1 SV=1

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYIADIEVDGKQVELALWDT  
AGQEDYDRLRPLSYPTDVLILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKD  
LRQDEHTRRELAKMKQEPVRSEEGRDMANRISAFGYLECSAKTKEGVREVFEMATRAGLQ  
VRKNKRRRGCPIL

>sp|Q7L0Q8|RHOU\_HUMAN Rho-related GTP-binding protein RhoU OS=Homo sapiens GN=RHOU PE=1 SV=1

MPPQQGDPAPDRCEAPPVPPRRERGGRRGPGEPGGRGRAGGAEGRGVKCVLVGDGAV  
GKTSLVVSYTTNGYPTEYIPTAFDNFSAVVSVDGRPVRLQLCDTAGQDEFDKLRPLCYTN  
TDIFLLCFSVVSPSSFQNVSEKVVPEIRCHCPKAPIILVGTQSDLREDVKVLIELDKCKE  
KVPVEEAAKLCAEEIKAASYIECSALTQKNLKEVFDAAIIVAGIQYSDTQQQPKKSKSRTP  
DKMKNLSKSWWKYCCFV

>sp|Q7Z5B4|RIC3\_HUMAN Protein RIC-3 OS=Homo sapiens GN=RIC3 PE=1 SV=1

MAYSTVQRVALASGLVLALLPKAFLSRGKRQEPPTPEGKLGRFPPMMHHQAPSDG  
QTPGARFQRSHLAEFAKAKSGGGAGGGGSGRGLMGQIIPIYGFIFLYILYILFKLSK  
GKTTAEDGKCYTAMPGNTHRKITSFELAQLQEKLKETEAAAMEKLINRVGPNGESRAQTVT  
SDQEKRLHLHLREITRVMKEGKFIDRFSPKEAEAEAPYMEDWEGYPEETYPIDLSDCIK  
RRQETILVDYDPKELSAEEIAERMGMIEEESDHLGWESLPTDPRAQEDNSVTSCDPKP  
ETSCCFHEDEDPAVLAENAGFSADSYPEEETKEEWSQDFKDEGLISTDKAYTGSM  
L RKNPQGLE

>sp|O15034|RIMB2\_HUMAN RIMS-binding protein 2 OS=Homo sapiens GN=RIMBP2 PE=1 SV=3

MREAAERRQQLQLEHDQALAVLSAKQEQIDLLQKSKVRELEEKCRTQSEQFNLLSRDLEK  
FRQHAGKIDLLGGSAAVPLDISTAPSKPFPQFMNGLATSLGKGQESAIGGSSAIGEYIRP  
LPQPGDRPEPLSAKPTFLSRGSARCRSESDMENERNSTSKQRYSGKVHLCVARYSNP  
FDGPNENPEAELPLTAGKYLYVYGDMDEDGFYEGELLDGQRGLVPSNFVDFVQDNESRLA  
STLGNEQDQNFINHSGIGLEGEHILDLHSPHTIDAGITDNSAGTLDVNIDDIGEDIVPYP  
RKITLIKQLAKSVIVGWEPAPVPPGWTVSSYNVLVDKETRMNLTLSRTKALIEKLNMA  
ACTYRISVQCVTSRGSSDELQCTLLVGKDVVAPSHLRVDNITQISAQLSWLPTNSNYSH  
VIFLNEEEFDIVKAARYKYQFFNLRPNMAYKVKVLAKPHQMPWQLPLEQREKKEAFVEFS  
TLPAGPPAPPQDVTVQAGVTPATIRVSWRPPVLTPTGLSNGANVTGYGVYAKGQRAEVI  
FPTADSTAVELVRLRSLEAKGTVRTLTAQGESVDSAVAAPPELLVPPTPHPRPAPQSK  
PLASSGVPETKDEHLGPHARMDEAWEQSRAPGPVHGHMLEPPVGPGRRSPSPSRILPQPQ  
GTPVSTTVAKAMAREAAQVAESSRLEKRSVFLERSSAGQYAASDEEDAYDSPDFKRRGA  
SVDDFLKGSELGKQPHCCHGDEYHTESSRGSDLSIMEEDEEELYSEMQLEDGRRRPSG  
TSHNALKILGNPASAGRVDMGRRFPRGSAGPQRSRPVTVPSIDYGRDRLSPDFYEESE  
TDPGAEELPARIFVALFDYDPLTMSPNPDAEEELPFKEGQIIKVYGDKADGFIYRGETC  
ARLGLIPCNMVSEIQADDEEMDQLLRQGFLPLNTPVEKIERSSRRSGRRHSVSTRMVAL  
YDYDPRESSPNVDVEAELTFCTGDIITVFGEIDEDGFYYGELNGQKGLVPSNFLEEVDD  
VEVYLSDAPSHYSQDTPMRSAKRKKSVMHFTP

>sp|Q86UA6|RIP\_HUMAN RPA-interacting protein OS=Homo sapiens GN=RPAIN PE=1 SV=1

MAESLRSPRRSLYKLVGSPWKEAFRQRCLEMRNSRDRLNRYRQAGSSGPGNSQNSFL  
VQEVMEEEWNALQSVENCPEDLAQLEELIDMAVLEEIQQELIKQEESIISEYEKSLQFDE

KCLSIMLAWEANPLICPVCTKYNLRLITSGVVVCQGLSIPSHSELTEQKLRACTEGSI  
NEHSAHCPHTPEFSVTGGTEEKSSLLMSCLACDTWAVIL

>sp|P23921|RIR1\_HUMAN Ribonucleoside-diphosphate reductase large subunit OS=Homo sapiens  
GN=RRM1 PE=1 SV=1

MHVIKRDGRQERVFMFDKITSRIQKLCYGLNMDFVDPAQITMKVIQGLYSGVTTVELDTLA  
AETAATLTTHKPDYAILAARIAVSNLHKETKKVFSVDMEDLYNYINPHNGKHSPMAKST  
LDIVLANKDRLNSAIYDRDFSINYFGFKTLERSYLLKINGKVAERPQHMLMRVSVGIHK  
EDIDAAIETYNLLSERWFTHASPTLFNAGTNRPQLSSCFLLSMKDDSIIEGIYDTLKQCAL  
ISKSAGGIGVAVSCIRATGSYIAGTNGNSNGLVPMRLVYNNATARYVDQGGNKRPGAFIY  
LEPWHLDIFEFLDLKNTGKEEQRARDLFFALWIPDLFMKRVETNQDWSLMCPNECPGLD  
EVWGEEFEKLYASYEKQGRVRKVKAQQLWYAIIESQTETGTPYMLYKDSNKRKSNQNL  
GTIKCSNLCTEIVEYTSKDEAVCNLASLALNMYVTSEHTYDFKKLAEVTKVVVRNLNKI  
IDINYPVPEACLSNKRHRPIGIGVQGLADAFILMRYPFESAQAQLLNKQIFETIYYGAL  
EASCDLAKEQGPYETYESPVSKGILQYDMWNVTPDLWDWVKLKEKIAKYGIRNSLLIA  
PMPTASTAQILGNNESEIPTYSTNIYTRRVLSGEFQIVNPHLLKDLTERGLWHEEMKNQII  
ACNGSIQSIPEIPDDLKQLYKTVWEISQKTVLKMAAERGAFIDQSQSLNIHIAEPNYGKL  
TSMHFYGWKQGLKTGMYLRTPAANPIQFTLNKEKLKDEKVSKEEEEKERNTAAMVCS  
LENRDECLMCGS

>sp|Q96L21|RL10L\_HUMAN 60S ribosomal protein L10-like OS=Homo sapiens GN=RPL10L PE=1 SV=3

MGRPARCYRYCKNKPYPKSRFCRGVPAKIRIFDLGRKKAKVDEFPLGGHMSDEYEQL  
SSEALEAARICANKYMKSCGRDGFHMRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFG  
KPQGTVARVHIGQVIMSIRTKLQNEEHVIEALRRAKFKFPGRQKIHISKKWGFTKFNAD  
FEDMVAKKCLIPDGCYVYVPSHGPLDKWRVLHS

>sp|P51606|RENBP\_HUMAN N-acylgucosamine 2-epimerase OS=Homo sapiens GN=RENBP PE=1 SV=2

MSKGLPARQDMEKERETLQAWKERVGQELDRVFAFWMEHSHDQEHGGFFTCLGREGRVYD  
DLKYVWLQGRQVWYCRLYRTFERFRHAQLLDAKAGGEFLLRYARVAPPKKCAFVLR  
DGRPVKVQRTIFSECFYTMAMNELWRATGEVRYQTEAVEMMDQIVHWVQEDASGLGRPQL  
QGAPAAEPMAVPMMLNLVEQLGEADEELAGKYAELGDCARRILQHVQRDQGALENVS  
EGGKELPGCLGRQQNPHTLEAGWFLLRHCIRKGDPELRAHVIDKFLLLPFHSGWDPDHG  
GLFYFQDADNFCPTQLEWAMKLWWPHSEAMIAFLMGYSDSGDPVLLRLFYQVAEYTFRQF  
RDPEYGEWFGYLSREGKVALSIKGGPFKGCFFHVRCLAMCEMLGALLSRPAPAPSPAPT  
PACRGAE

>sp|Q9BZI7|REN3B\_HUMAN Regulator of nonsense transcripts 3B OS=Homo sapiens GN=UPF3B PE=1  
SV=1

MKEEKEHRPKEKRVTLTPAGATGSGGGTSGDSSKGEDKQDRNKEKKEALSKVVIRRLPP  
TLTKEQLQEHLQPMPEHDYFEFFSNDTSLYPHYARAYINFKNQEDIILFRDRFDGYVFL  
DNKGQEYPAIVEFAPFQKAACKKTKKRDTKVGTIDDDPEYRKFLSYATDNEKMTSTPET  
LLEEIEAKNRELIAKKTTPLLSFLKNKQRMREEKREERRRREIERKRQREEERRKWKEE  
KRRKRDIEKLKIDRIPERDKLDEPKIKVHRFLLQAVNQKNLLKPEKGDEKELDKREK  
AKKLDKENLSDERASQSCTLPKRSDSELKDEKPKRPEDESGRDYREREREYERDQERIL  
RERERLKRQEEERRRQKERYEKEKTFKRKEEEMKKEKDTLRDKGKKAESTESIGSSEKTE  
KKEEVVKRDRIRNKDRPAMQLYQPGARSRNRLCPPDDSTKSGDSAAERKQESGISHRKEG  
GEE

>sp|O75787|RENH\_HUMAN Renin receptor OS=Homo sapiens GN=ATP6AP2 PE=1 SV=2

MAVFVLLALVAGVLGNEFSILKSPGSVFRNGNWPPIGERIPDVAALSMGFSVKEDLSW  
PGLAVGNLFHRPRATVMVMKGVNKLALPPGSVISYPLENAVPFSLDSVANSIHSLFSEE  
TPVVLQLAPSEERVYVMGKANSVFEDLSVTLRQLRNRLFQENSVLSSLPLNSLSRNNEVD  
LLFLSELQVLHDISSLLSRHKHLAKDHSPDLYSLELAGLDEIGKRYGEDSEQFRDASKIL  
VDALQKFADDMYSLYGGNAVVELVTVKSFDTSLIRKTRTILEAKQAKNPASPYNLAYKYN  
FEYSVVFNMVLWIMIALALAVIITSYNIWNMDPGYDSIIYRMTNQKIRMD

>sp|Q5W5W9|RES18\_HUMAN Regulated endocrine-specific protein 18 OS=Homo sapiens GN=RESP18  
PE=2 SV=1

MQHPLWPGSSEGLQLLVCFLLLNSCPGGCSDTSAHDGQDQVGVGQLWPLQGFATPVFQHL  
QVVLQQIIPQGLFWKDDITQDAMIQKMEHASRLHPQEPCLKD GKALFPTKTTEQEEKLQL  
LFPSETHSPLAKVNRDQCFTSEVVSKALKQEVANPVKGFSGPLPTVGRNPVAD

>sp|P09455|RET1\_HUMAN Retinol-binding protein 1 OS=Homo sapiens GN=RBP1 PE=1 SV=2  
MPVDFTGYWKMLVNENFEEYLRLADVNLARKIANLLKPDKEIVQDGDHMIIRTLSTFRN  
YIMDFQVGKEFEEDLTGIDDRKMTTVSWDGDKLQCVQKGEKEGRGTQWIEGDELHLEM  
RVEGVVCKQVFKKVQ

>sp|Q9UBZ9|REV1\_HUMAN DNA repair protein REV1 OS=Homo sapiens GN=REV1 PE=1 SV=1

MRRGWRKRAENDGWETWGGYMAAKVQKLEEQFRSDAAMQKDGTSSTIFSGVAIYVNGYT  
DPSAEELRKLMLHGGQYHVYYSRSKTTHI IATNLPNAKIKELKGEKVI RPEWIVESIKA  
GRLLSYIPYQLYTKQSSVQKGLSFNPVCRPEDPLPGPSNIAQLNNRVNHIVKKIETENE  
VKVNGMNSWNEEDENDFSVDLEQTS PGRKQNGIPHRGSTAIFNGHTPSSNGALKTD  
CLVPMVNSVASRLSPAFSQEEDKAEKSSTDFRDCTLQQLQQSTRNTDALRNPHTNSFSL  
SPLHSNTKINGAHHSTVQGPSSTKSTSSVSTFSKAAPSVPSKPSDCNFISNFYSHSRLHH  
ISMWKCELTEFVNTLQRQSNGIFPGREKLKMKMTGRSALVVDTDGMSVLNSPRHQSCIM  
HVDMDCCFFVSVGIRNRPDLKGKPVAVTSNRGTGRAPLRPGANPQLEWQYYQNKILKGKAA  
DIPDSSLWENPDQAANGIDSVLSRAEIASCSYEARQLGIKNGMFFGHAKQLCPNLQAVP  
YDFHAYKEVAQTLYETLASYNHIEAVSCDEALVDITEILAETKLTPDEFANAVRMEIKD  
QTKCAASVGIGSNILLARMATRKAAPDGQYHLKPEEVDDFIRGQLVTNLPVGHSMESKL  
ASLGIKTCGDLQYMTMAKLQKEFGPKTGQMLYRFCRGLDDRPVRTEKERKSVSAEINYGI  
RFTQPKAEAEFLLSLSEEIQRREATGMKGKRLTLKIMVRKPGAPVETAKFGGHGICDNI  
ARTVTLDQATDNAKII GKAMLMFHTMKLNI SDMRGVGIHVNQLVPTNLPSTCPSRPSV  
QSSHFPSGSYSVRDVFQVQKAKKSTEEHKEVFRAAVDLEISSASRTCTFLPPFAHLPT  
SPDTNKAESSGKWNGLHTPVSVQSRLNLSIEVPSPSQLDQSVLEALPPDLREQVEQCAV  
QQAESHGDKKKEPVNGCNTGILPQPVGTVLLQIPEPQESNSDAGINLIALPAFSQVDPEV  
FAALPAELQRELKAAAYDQRQRQGENSTHQQSASASVPKNPLLHLKAAVKEKKRNKKKKTI  
GSPKRIQSPLNNKLLNSPAKTLPGACGSPQKLIDGFLKHEGPPAEKPLEELSASTSGVPG  
LSSLQSDPAGCVRPPAPNLAGAVEFNDVKTLLEWITTISDPMEEDILQVVKYCTDLIEE  
KDLEKLDLVIKYMKRLMQQSVESVWNMAFDFILDNVQVVLQQTYGSTLKV

>sp|P22670|RFX1\_HUMAN MHC class II regulatory factor RFX1 OS=Homo sapiens GN=RFX1 PE=1  
SV=2

MATQAYTELQAAPPSQPPQAPPQAQPPPPPPPAAPQPPQPPTAAATPQPQYVTELQS  
PQPQAQPPGGQKQYVTELPAPVAPSQPTGAPTPSPAPQQYIVVTVSEGAMRASETVSEAS  
PGSTASQTVPTQVVQVQGTQQRLLVQTSVQAKPGHVSPLQLTNIQVPQQALPTQRLVV  
QSAAPGSKGGQVSLTVHGTQQVHSPPEQSPVQANSSSSKTAGAPTGTVPQQLQVHGVQQS  
VPVTQERSVVQATPQAPKPGPVQPLTVQGLQPVHVAQEVQQLQQVVPVPHVYSSQVQYVEG

GDASYTASAIRSSTYSYPETPLYTQTASTSYEAAAGTATQVSTPATSQAVASSGSMPLYV  
SGSQVVASSTSTGAGASNSSGGGSGGGGGGGGGGGSGSTGGGSGAGTYVIQGGYM  
LGSASQSYSHTTRASPATVQWLLDNYETAEGVSLPRSTLYCHYLLHCQEQLPEVNAASF  
GKLIRSVFMGLRTRRLGTRGNSKYHYGLRIKASSPLLRLMEDQQHMAMRGQPFSSQKQRL  
KPIQKMEGMTNGVAVGQQPSTGLSDISAQVQQYQQFLDASRSLPDFTELDLQGKVLPEGV  
GPGDIKAFQVLYREHCEAIVDMVNQLQFTLVETLWKTFWRYNLSQPSEAPPLAVHDEAEK  
RLPKAILVLLSKFEPVLQWTKHCDNVLYQGLVEILIPDVLRIPSALTQAIRNFAKSLES  
WLTHAMVNIPEMLRVKVAAGAFATLRRYTSLNHLAQAARAVLQNTAQINQMLS LNR  
VDFANVQEASWVCRCEDRVVQRLEQDFKVTLQQQNSLEQWAAWLDGVVSQVLKPYQGS  
GFPKAAKLFLKWSFYSSMVIDRLTLRSAASFGSFHLIRLLYDEYMYLIEHRVAQAKGE  
TPIAVMGEFANLATS LPLDPKDEEEEEEESEDELQDISLAAGGESPALGPETLEPP  
AKLARTDARGLFVQALPSS

>sp|O00287|RFXAP\_HUMAN Regulatory factor X-associated protein OS=Homo sapiens GN=RFXAP  
PE=1 SV=1

MEAQGVAEGAGPGAASGVPHPAALAPAAAPT LAPASVAAAASQFTLLVMQPCAGQDEAAA  
PGGSGVAGKPVRYLCEGAGDGEDEADLLDTS DPPGGGESAASLEDEDEETHSGG  
EGSSGGARRRGSGGSGMSKTCTYEGCSETTSQVAKQRKPWMCKKHRNKMYKDKYKKKSD  
QALNCGGTASTGSAGNVKLEESADNLSIVKQRTGSFGDRPARPTLLEQVLNQKRLSLR  
SPEVVQFLQKQQQLLNQQVLEQRQQQFPGTSM

>sp|Q6ZVN8|RMC\_HUMAN Hemojuvelin OS=Homo sapiens GN=HFE2 PE=1 SV=1

MGEPGQSPSRSSHGSPPTLSTLTLLLLCGHAHSQCKILRCNAEYVSSTLSLRGGGSSG  
ALRGGGGGGRGGVGSGGLCRALRSYALCTRRTARTCRGDLAFHS AVHGIEDLMIQHNC  
RQGPTAPPPPRGPALPGAGSGLPAPDPCDYEGRFSRLHGRPPGFLHCASFDPHRSFHH  
HFHTCRVQGAWPLLDNDFLFVQATSSPMALGANATATRKLTIIIFKNMQECIDQKVYQAEV  
DNLPAFEDGSINGDRPGGSSLSIQTANPGNHVEIQAAAYIGTTIIIRQTAGQLSFSIKV  
AEDVAMAFSAEQDLQLCVGGCPPSQRLSRSENRNGAITIDTARRLCKEGLPVEDAYFHS  
CVFDVLISGDPNFTVAAQALEDARAFLPDLEKLHLFPSDAGVPLSSATLLAPLLSGLFV  
LWLCIQ

>sp|Q9BWJ2|RHAS1\_HUMAN Putative uncharacterized protein encoded by RHPN1-AS1 OS=Homo  
sapiens GN=RHPN1-AS1 PE=5 SV=1

MPAFFSLPAERRLQAWPQSEAPLSVSSCFQNRPPPEPASFNLRPEPASLQNLRTPTSF

>sp|Q9H310|RHBG\_HUMAN Ammonium transporter Rh type B OS=Homo sapiens GN=RHBG PE=1 SV=2

MAGSPSRAAGRRLQLPLLCLFLQGATAVLFAVFRYNHKTDAALWHRSNHSNADNEFYFR  
YPSFQDVHAMVFGVGFGLMVFLQRYGFSSVGFTFLAAAFALQWSTLVQGFLHSFHGGHIH  
VGVESMINADFCAGAVLISFGAVLGKTGPTQLLLMALLEVVLFGINEFVLLHLLGVRDAG  
GSMTIHTFGAYFGLVLSRVLYRPQLEKSKHRQGSVYHSDLFAMIGTIFLWIFWPSFNAAL  
TALGAGQHRTALNTYYSLAASLTGTFALSALVGEDGR LDMVHIQNAALAGGVVGTSSSEM  
MLTPFGALAAGFLAGTVSTLGKFFTPILES KFKVQDTCGVHNLHGMGPVGLGALLGLVA  
GLATHEAYGDGLESVFPLIAEGQRSATSQAMHQLFGLFVTLMFASVGGGLGGLLLKLPFL  
DSPRLPALRGPSLAGAWRA

>sp|Q9NX52|RHBL2\_HUMAN Rhomboid-related protein 2 OS=Homo sapiens GN=RHBDL2 PE=1 SV=2

MAAVHDLEMESMNLNMGREMKEEEEEKMRDGGGKDRAKSKKVHRIVSKWMLPEKSRG  
TYLERANCFPPPVFIISISLAELAVFIYAVWPKQKQWITLDTGILESPFIYSPEKREEA  
WRFISYMLVHAGVQHILGNLCMQVLGIPLEMVHKGLRVGLVYLAGVIAGSLASSIFDPL

RYLVGASGGVYALMGGYFMNVLVNFQEMIPAFGIFRLIIILIIIVLDMGFALYRRFFVPE  
DGSPVSFAAHIAGGFAGMSIGYTVFSCFDKALLKDPRFWIAIAAYLACVLFAVFFNIFLS  
PAN

>sp|094844|RHBT1\_HUMAN Rho-related BTB domain-containing protein 1 OS=Homo sapiens  
GN=RHOBTB1 PE=2 SV=2

MDADM DYERP NVETIKCVVVGDN AVGKTR LICARACNTTLTQYQLLATHVPTVWAIDQYR  
VCQEVLERSRDVDEVS VSLRLWDTFGDH HKDRRFAYGRSDVVVLCFSIANPNSL NHVKS  
MWYPEIKHFCPRTPVILVGCQLDLRYADLEAVNRARRPLARPIKRGDILPPEKGREVAKE  
LGLPYEYTSVFDQFGIKDVFDNAIRAALISRRHLQFWKSHLKKVQKPLLQAPFLPPKAPP  
PVIKIPECPSMG TNEAACLLDNPLCADVLFILQDQEHIFAHRIYLATSSSKFYDLFLMEC  
EESPNGSE GACEKEKQSRDFQGRILSVDP EEERE EGPPRIPQADQWKSSNKSLVEALGLE  
AEGAVPETQTLTGWSKGFIGMHREM QVNPISKRMGPM TVVRMDASVQPGPFRTLLQFLYT  
GQLDEKEKDLVGLAQIAEVLEMF DLMMVENIMNKEAFMNQEITKAFHVRKANRIKECLS  
KGTFS DVTFKLDDGAISAHKPLLICSEWMAAMFGGSFVESANSEVYLPNINKISMQAVL  
DYLYTKQLSPNLDLDPLELIALANRFCLPHLVALAEQHAVQELTKAATSGVGIDGEVLSY  
LELAQFHNAHQLAAWCLHHICTNYSVCSKFRKEIKSKSADNQEYFERHRWPPVWYLKEE  
DHYQRVKREREKEDIALNKHRSRRKWCFWNSSPAVA

>sp|Q6PJF5|RHDF2\_HUMAN Inactive rhomboid protein 2 OS=Homo sapiens GN=RHBD2 PE=1 SV=2

MASADKNGGSVSSVSSSRLQSRKPPNLSITIPPPEKETQAPGEQDSMLPEGFQNRRLKKS  
QPRTWAAHTTACPPSFLPKRKNPAYLKS VSLQEPRSRWQESSEKRPGRFRRQASLSQSIRK  
GAAQWFGVSGDWEGQRQWQRRSLHHC SMRYGRLKASCQRDLELPSQEAPSFQGTESPKP  
CKMPKIVDPLARGRAFRHPEEMDRPHAPHPPLTPGVLSLTSFTSVRSGYSHLPRRKMSV  
AHMSLQAAAAALLKGRSVLDATGQRCRVVKRSFAFP SFLEEDVVDGADTFDSSFFSKEEMS  
SMPDDVFESPLSASYFRGIPHSASPSPDGVQIPLKEYGRAPVPGPRRGKRIASKVKHF  
AFDRKKRHYGLGVGNWLNRSYRRSISSTVQRQLESFDSHRPYFTYWLTFVHVIIITLLVI  
CTYGIAPVGFAQHVTTLQLVLRNKG VYESVKYIQQENFWVGPSIDLHLGAKFSPCIRKD  
GQIEQLVLRERDLERDSGCCVQNDHSGCIQTQRKDCSETLATFVKWQDDTGPPMDKSDLG  
QKRTSGAVCHQDPRTCEEPASSGAHIWPDDITKWPICTEQARSNHTGFLHMDCEIKGRPC  
CIGTKGSCEITTREYCEFMHGYFHEEATLCSQVHCLDKVCGLLPFLNPEVPDQFYRLWLS  
LFLHAGVVHCLVSVVFQMTILRDLEKLAGWHRIAIIFILSGITGNLASAIFLPYRAE VGP  
AGSQFGLLACLFVELFQSWPLLERPWKAFLNLSAIVLFLFICGLLPWIDNIAHIFGFLSG  
LLLAF AFLPYITFTGSDKYRKRALILVSLAFAGLFAALVLWLYIYPINWPWIEHLTCFP  
FTSRFCEKYELDQVLH

>sp|Q15382|RHEB\_HUMAN GTP-binding protein Rheb OS=Homo sapiens GN=RHEB PE=1 SV=1

MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVD  
TAGQDEYSIFPQTYSIDINGYILVYSVT SIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNK  
KDLHMERVISYEEGKALAESWNAAFLESSAKENQTAVDVFRRIILEAEKMDGAASQ GKSS  
CSVM

>sp|Q07960|RHG01\_HUMAN Rho GTPase-activating protein 1 OS=Homo sapiens GN=ARHGAP1 PE=1  
SV=1

MDPLSELQDDLTLDDTSEALNQLKLASIDEKNWPSDEMPDFPKSDDSKSSSPELVTHLKW  
DDPYIDIARHQIVEVAGDDKYGRKII VFSACRMPPSHQLDHSKLLGYLKHTLDQYVESDY  
TLLYLHHGLTSDNKPSLSWLRDAYREFDRKYKNIKALYIVHPTMFIKTLILFKPLISF  
KFGQKIFYVNYLSELSEHVKLEQLGIPRQVLKYDDFLKSTQKSPATAPKMPPRPPLPNQ

QFGVSLQHLQEKNPQEPIPIVLRETVAYLQAHALTTEGIFRRSANTQVVREVQQKYNMG  
LPVDFDQYNELHLPVILKTFLRELPELLTFDLYPHVVGFLNIDESQRVPATLQVLQTL  
PEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNLLWAKDAAITLKAINPINTFT  
KFLLDHQGELFSPDPSGL

>sp|Q8TCX5|RHPN1\_HUMAN Rhophilin-1 OS=Homo sapiens GN=RHPN1 PE=1 SV=1

MILEERPDGAGAGEESPRLQGCDSLTQIQCGQLQSRRAQIHQQIDKELQMRTGAENLYRA  
TSNNRVRETVALELSYVNSNLQLLKEELEELSGGVDPRHGSEAVTPMIPLGLKETKEL  
DWSTPLKELISVHFGEFGASYEAEIRELEALRQAMRTPSRNEGLELLTAYYNQLCFLDA  
RFLTPARSLGLFFHWYDSLTVPAQQRALAFEKGSVLFNIGALHTQIGARQDRSCTEGAR  
RAMEAFQRAAGAFSLLRENFSHAPSPDMAASLCALEQLMMAQAQECVFEGLSPPASMAP  
QDCLAQLRLAQEAAQVAAEYRLVHRTMAQPPVHDYVPVSWTALVHVKAEIFRSLAHYHVA  
MALCDGSRCPHPLPMVLRPPRAGSQPLCPAATEGELPTHEQVFLQPPTSSKPRGPVL  
PQELEERRQLGKAHLKRAILGQEEALRLHALCRVLRVDLLRAVISQTLQRLAKYAELD  
REDDFCEAAEAPDIQPKTHQKPEARMRLSQGKGPDI FHRLGPLSVFSAKNRWRLVGPVH  
LTRGEGGFGLTLRGDSPVLIAAVIPGSQAAAAGLKEGDYIVSVNGQPCRWWRAEVVTEL  
KAAGEAGASLQVVSLLPSSRLPSLGDRRPVLLGPRGLLSQREHGCKTPASTWASPRPLL  
NWSRKAQQGKTGGCPQPCAPVKPAPPSSLKHGWP

>sp|Q9BQY4|RHXF2\_HUMAN Rhox homeobox family member 2 OS=Homo sapiens GN=RHXF2 PE=1 SV=1

MEPPDQCSQYMTSLLSPAVDDEKELQDMNAMVLSLTEEVKEEEEDAQPEPEQGTAAAGEKL  
KSAGAAQGGEEKDGGGEEKDGGGAGVPGLHWEGLDGTSGSDGNVEDSDQSEKEPGQQYSR  
PQGAVGGLEPGNAQQPNVHAFTPLQLQELERIFQREQFPSEFLRRRLARSMNVTAVQI  
WFENRRAKWRRHQRALMARNMLPFMAVGQPMVMTAAEAITAPLFISGMRDDYFWDHSHSS  
SLCFMPPFPFPPSLPLPLMLLPPMPAGQAEFGPFVIVPSFTFPNV

>sp|Q8N443|RIBC1\_HUMAN RIB43A-like with coiled-coils protein 1 OS=Homo sapiens GN=RIBC1  
PE=1 SV=1

MYNIKQSTDTKEAAAIEARRNREKERQNRFFNVRNRMGVDVQALNNQVGRKRREAAER  
SKEAAYGTSQVQYDVVVQMLEKEEADTRQLAKKVQEFREQKQQLKNGREFSLWDPGQVW  
KGLPTYLSYSNTYPGPASLQYFSGEDLDRDTRLRMQQGQFRYNLERQQEQQAQVDENY  
TDALSNQLRLAMDAQATHLARLESCRAAMMCAMANANKAQAQVQAGRQRCERQREQKAN  
LAEIQHQSTSDLLTENPQVAQHMAPYRVLPYCWKGMTPEQQAIRKEQEVQRSKKQHR  
QAEKTLDTWKSQTMSSAQAVLEEEQERELCAVFQRLGSGFNQQLANEQKAQQDYLSV  
IYTNQPTAQYHQFNTSSR

>sp|Q96NA2|RILP\_HUMAN Rab-interacting lysosomal protein OS=Homo sapiens GN=RILP PE=1 SV=1

MEPRRAAPGVPWGSREAAGSASAAELVYHLAGALGTELQDLARRFGPEAAAGLVPLVVR  
ALELLEQAAVGPAPDSLQVSAQPAEQELRRLREENERLRREL RAGPQEERALLRQLKEVT  
DRQRDELRAHNRLRQRGQETEALQEQLRLLL VNAELRHKLAAQTQLRAAQDRERERQ  
QPGEAATPQAKERARGQAGRPGHQHGEPEWATAGAGAPGNPEDPAEAAQQLGRPSEAGQ  
CRFSREEFEQILQERNELKAKVFLKEELAYFQRELLTDHRVPGLLLEAMKVAVRKQRKK  
IKAKMLGTPEEAESSEDEAGPWILLSDDKGDHPPPPESKIQSFFGLWYRGKAESSEDETS  
SPAPSKLGGEAAQPPQSPAPDPPCSALHEHLCLGASAAPEA

>sp|Q8WYP3|RIN2\_HUMAN Ras and Rab interactor 2 OS=Homo sapiens GN=RIN2 PE=1 SV=1

MTAWTMGARGLDKRGSFFKLIDTIASEIGELKQEMVRTDVNLENGLEPAETHSMVRHKDG  
GYSEEDVKTCARDSGYDSLNRLSILDRLHHTPIWLQLSLSEEEAAEVLQAQPPGIFL  
VHKSTKMQKKVLSLRLPCEFGAPLKEFAIKESTYTFSLGSGISFADLFRLIAFYCISRD

VLPFTLKL PYAISTAKSEAQLEELAQMGLNFWSSPADSKPPNLPPPHRPLSSDGVCPASL  
RQLCLINGVHSIKTRTPSELECSQTNGALCFINPLFLKVHSQDLGGGLKRPSTRTPNANG  
TERTRSPPPRPPPPAINSLHTSPRLARTETQTSMPETVNNHKNHGNVALPGTKPTPIPPPR  
LKKQASFLAEAGGAKTLSGGRPGAGPELELGTAGSPGGAPPEAAPGDCTRAPPPSSSRP  
PCHGGRQRLSDMSISTSSSDSLEFDRSMPLFGYEADTNSSLEDYEGESDQETMAPPIKSK  
KKRSSSFVLPKLVKSQLQKVSGVFSSFMTPEKRMVRRIAELSRDKCTYFGCLVQDYVSFL  
QENKECHVSSTDMLQTIQFMTQVKNYLSQSSELDPPIESLIPEDQIDVVLEKAMHKCIL  
KPLKGHVEAMLKDFHMADGSWKQLKENQLVRQRNPQELGVFAPTPDFVDVEKIKVKFMT  
MQKMYSPPEKKVMLLRVCKLIYTMENNSGRMYGADDFLPVLYVIAQCDMLELDEIEY  
MMELLDPSLLHGEAGGYLT SAYGALSLIKNFQEEQAARLLSSETRDTLRQWHKRRTNRT  
IPSVDDFQNYLRVAFQEVNSGCTGKTLVVRPYITTEDVCQICAEKFKVGDPEEYSLFLFV  
DETWQQLAEDTYPQKIKAEHLSRPQPHIFHFVYKRIKNDPYGIIFQNGEEDLTTS

>sp|Q8TB24|RIN3\_HUMAN Ras and Rab interactor 3 OS=Homo sapiens GN=RIN3 PE=1 SV=4

MIRHAGAPARGDTPGPVPVVGKGGGGGGEDGMRCLPANPKNCLPHRRGISILEKLIKTC  
PVWLQLSLGQAEVARILHRVAVAGMFLVRRDSSSKQLVLCVHFPSLNESSAEVLEYTIKEE  
KSILYLEGSALVFEDIFRLIAFYCVSRDLLPFTLRLPQAILEASSFTDLETIANLGLGFW  
DSSLNPPQERKGAEPDRAPGFPLVSSLRPTAHDANCACEIELSVGNDRLWFVNPIFI  
EDCSSALPTDQPPLGNCPARLPPTSDATSPTSRAWPRRPPPPVPLPLQPCSPAQPPVL  
PALAPAPACPLPTSPVPAPHVTPHAPGPPDHPNQPPMMTCERLPCPTAGLGPLREEAMK  
PGAASSPLQQVPAPPLPAKKNLPTAPRRRVSERVSLEDQSPGMAAEGDQLSLPPQGTSD  
GPEDTPRESTEQGDTEVKASDPHSMPELPRTAKQPPVPPPRKKRISRQLASTLPAPLEN  
AELCTQAMALETPTPGPPREGQSPASQAGTQHPPAQAATAHSQSSPEFKGSLASLSDSLGV  
SVMATDQDSYSTSSTEEELQFSSPSVKKKPSMILGKARHLSFASFSSMFHAFLSNNRK  
LYKKVVELAQDKGSYFGSLVQDYKVYSLEMMARQTSSTEMLQEIRTMMTQLKSYLLQSTE  
LKALVDPALHSEEELEAIVESALYKCVLKPLKEAINSLHQIHSKDGSLQQLKENQLVIL  
ATTTTDLGVTTSPVEVPMMEKILQKFTSMHKAYSPEKKISILLKTCKLIYDSMALGNPGK  
PYGADDFLPVLMYVLARSNLTEMLLNVEYMMELMDPALQLGEGSYLTTTYGALEHIKSY  
DKITVTRQLSVEVQDSIHRWERRRTLNKARASRSSVQDFICVSYLEPEQQARTLASRADT  
QAQALCAQCAEKFAVERPQAHRLFVLVDGRCFQLADDALPHCIKGYLLRSEPKRDFHFVY  
RPLDGGGGGGGGSPCLVREPNFL

>sp|Q99496|RING2\_HUMAN E3 ubiquitin-protein ligase RING2 OS=Homo sapiens GN=RNF2 PE=1  
SV=1

MSQAVQTNGTQPLSKTWELSLYELQRTPEAITDGLEIVVSPRSLHSELMCPICLDMLKN  
TMTTKECLHRFCADCIITALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSRDEY  
EAHQERVLARINKHNNQALSHSIEEGLKIQAMNRLQRGKKQIENGGAEDNGDSSHCS  
NASTHSNQEAGPSNKRKTSDSGLELDNNAAMAIDPVMGASEIELVFRPHPTLMEKD  
DSAQTRYIKTSGNATVDHL SKYLAVRLALEELRSKGESNQMNLDTASEKQYTIYIATASG  
QFTVLNGSFSLELVSEKYWKVNKPMELYYAPTKEHK

>sp|Q9BVS4|RIOK2\_HUMAN Serine/threonine-protein kinase RIO2 OS=Homo sapiens GN=RIOK2 PE=1  
SV=2

MGKVNVAKLRYMSRDDFRVLTAVEMGMKNHEIVPGSLIASIASLKHGGCNKVLRELVKHK  
LIAWERTKTVQGYRLTNAGYDYLAKTLSSRQVVESVGNQMGVGKESDIYIVANEEGQQF  
ALKLHRLGRTSFRNLKNKRDYHKHRHNSWL YLSRLSAMKEFAYMKALYERKFPVPKPID  
YNRHAVVMELINGYPLCQIHVEDPASVYDEAMELIVKLANHGLIHGDFNEFNILDESD



HITMIDFPQMVSTSHPNAEWYFDRDVKCIKDFFMKRFSYESELFPTFKDIRREDTLDVEV  
SASGYTKEMQADDELLHPLGPDDKNIETKEGSEFSFSAGEVAEKADEVYSENESESRNCLE  
ESEGCYCRSSGDPEQIKEDSLSEESADARSFEMTEFNQALEEIKGQVVENNSVTEFSEEK  
NRTENYNRQDQGRVQGGVPAGSDEYEDECPLIALSSLNREFRPFDEENVGAMNQYRTR  
TLSITSSGSAVSCSTIPPELVKQKVQRQLTKQKSAVRRRLQKGEANIFTKQRRENMQNI  
KSSLEAASFWGE

>sp|Q9HB40|RISC\_HUMAN Retinoid-inducible serine carboxypeptidase OS=Homo sapiens  
GN=SCPEP1 PE=1 SV=1

MELALRRSPVPRWLLLLPLLLGLNAGAVIDWPTEEGKEVWDYVTVRKDAYMFWWLYYATN  
SCKNFSELPLVMWLQGGPGGSSTGFGNFEEIGPLSDLKPRKTTWLQAASLLFVDNPVGT  
GFSYVNGSGAYAKDLAMVASDMMVLLKTFFSCHKEFQTVPFYIFSESYGGKMAAGIGLEL  
YKAIQRGTIKCNFAGVALGDSWISPVDSVLSWGPYLYSMSLLEDKGLAEVSKVAEQVLNA  
VNKGLYREATELWGKAEMIIEQNTDGVNFYINILTKSTPTSTMESSLEFTQSHLVCLCQRH  
VRHLQRDALSQLMNGPIRKKLKIIPEDQSWGQATNVFVNMEEDFMKPVISIVDELLEAG  
INVTYVNGQLDLIVDTMGQEAWVRKLKWPELPKFSQLKWKALYSDPKSLETSAFVKSYKN  
LAFYWILKAGHMVPSDQGDMAKMMRLVTQQE

>sp|Q92963|RIT1\_HUMAN GTP-binding protein Rit1 OS=Homo sapiens GN=RIT1 PE=1 SV=1  
MDSGTRPVGSCSSPAGLSREYKLVMLGAGGVGKSAMTMQFISHRFPEDHDPTIEDAYKI  
RIRIDDEPANLDILDTAGQAEFTAMRDQYMRAGEGFIICYSITDRRSFHEVREFKQLIYR  
VVRTDDTPVVLVGNKSDLKQLRQVTKEEGLALAREFSCPPFETSAAAYRYIIDVVFHALVR  
EIRRKEKEAVLAMEKSKPKNSVWKRLKSPFRKKKDSVT

>sp|Q9Y2P8|RCL1\_HUMAN RNA 3'-terminal phosphate cyclase-like protein OS=Homo sapiens  
GN=RCL1 PE=1 SV=3

MATQAHSLSYAGCNFLRQRLVLSTLSGRPVKIRKIRARDDNPGLRDFEASFIRLLDKITN  
GSRIEINQGTTLYYQPGLLYGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGV  
TNDQVDPSVDVLKATALPLLKQFGIDGESFELKIVRRGMPPGGGGEVVFSCPVKVLKPI  
QLTDPGKIKRIRGMAYSVRVSPQMANRIVDSARSILNKFIPDIYIYTDHMGVNSGKSPG  
FGLSLVAETTSGLTFLSAELASNPQGGAAVLPEDLGRNCARLLLEEIYRGGCVDSTNQL  
ALLLMTLGQQDVSKVLLGPLSPYTIEFLRHLKSFFQIMFKIETKPCGEELKGGDKVLMTC  
VGIGFSNLSKTLK

>sp|Q14257|RCN2\_HUMAN Reticulocalbin-2 OS=Homo sapiens GN=RCN2 PE=1 SV=1  
MRLGPRTAALGLLLLCAAAGAGKAEELHYPLGERRSDYDREALLGVQEDVDEYVVLGHE  
EQQKRLQAIKKIDLSDGFLTESELSSWIQMSFKHYAMQEAQQFVEYDKNSDDTVTWD  
EYNIQMYDRVIDFDENTALDDAEEESFRKLHLKDKKRFKANQDSGPGLSLEEFIAFEHP  
EEVDYMTFVIEALEEHDKNGDGFVSLEEFGLDYRWDPTANEDPEWILVEKDRFVNDYD  
KDNDGRLDPELLPWVVPNNQIAQEEALHLIDEMDLNGDKLSEEEILENPDLFLTSEA  
TDYGRQLHDDYFYHDEL

>sp|Q96D15|RCN3\_HUMAN Reticulocalbin-3 OS=Homo sapiens GN=RCN3 PE=1 SV=1  
MMWRPSVLLLLLLLRHGAQGKPSPDAGPHGQGRVHQAAPLSDAPHDDAHGNFQYDHEAFL  
GREVAKEFDQLTPEESQARLGRIVDRMDRAGDGDGWVSLAELRAWIAHTQQRHIRDSVSA  
AWDTYDTRDGRVGEELRNATYGHYAPGEEFHDVEDAETYKKMLARDERRFRVADQDGD  
SMATREELTAFLHPEEFPHMRDIVIAETLEDLDRNKDGYVQVEEYIADLYSAEPGEEEP  
WVQTERQQFRDRLNKGHLGSEVGHVWLPPAQDQPLVEANHLLHESDTRDKDGRLSKA  
EILGNWNMFVGSQATNYGEDLTRHHDEL

>sp|Q9H4I0|RD21L\_HUMAN Double-strand-break repair protein rad21-like protein 1 OS=Homo sapiens GN=RAD21L1 PE=2 SV=3

MFYTHVLSMRGKPLAKIWLAAHWEKKLTKAHVFECNLEITIEKILSPKVKIALRTSGHLL  
LGVVRIYNRKAKYLLADCSEAFMKMTFCPLVDLPKENFEASYNAILPEEFHDFDTQ  
NMNAIDVSEHFTQNRPEEITLRENFDNDLIFQAESFGEESEILRRHSFFDDNILLNSS  
GPLIEHSSGSLTGERSLFYDSGDGFGDEGAAGEMIDNLLQDDQNILLEDMHLNREISLPS  
EPPNSLAVEPDNSECICVPENEKMNETILLSTEEEGFTLDPIDISDIAEKRGKKRRLLI  
DPIKELSSKVIHKQLTSFADTLMVLELAPPTQRLMMWKKRGVHTLLSTAAQDLIHAEK  
MLFTKCLSSGFKLGRKMIQKESVREEVGNQIVETSMMEPNYQQELSKPQTWKDVIGG  
SQHSSHEDTNKNINSEQDIVEMVSLAAESSLMNDLFAQEIEYSPVELESLSNEENIETE  
RWNGRILQMLNRLRESNKMGMQSFSLMKLCRNSDRKQAAAKFYSLVLLKKQLAIELSQSA  
PYADIIATMGPMFYNI

>sp|Q96NR8|RDH12\_HUMAN Retinol dehydrogenase 12 OS=Homo sapiens GN=RDH12 PE=1 SV=3

MLVTLLGLLTSFFSFLYMVAPSIRKFFAGGVCRITNVQLPGKVVTITGANTGIGKETARELA  
SRGARVYIACRDVLKGESAASEIRVDTKNSQVLVRKLDLSDTKSIRAFAGFLAEKQLH  
ILINNAGVMMCPYSKTADGFETHLGVNHLGHFLTYLLERLKVSAARVVNVSSVAHHI  
GKIPFHDQLSEKRYSRGFAYCHSKLANVLTRELAKRLQGTGVTYAVHPGVVRSELVRH  
SSLLCLLWRLFSPFVKTAREGAQTSLHCALAEGLPLSGKYFSDCKRTWVSPRARNKTA  
ERLWNVSCCELLGIRWE

>sp|Q92781|RDH1\_HUMAN 11-cis retinol dehydrogenase OS=Homo sapiens GN=RDH5 PE=1 SV=1

MWLPLLGLLWAVLWLLRDRQSLPASNAFVFITGCDSGFGRLLALQLDQGRVRLASCL  
TPSGAEDLQRVASSRLHTLLDITDPQSVQQAQWVEMHVKEAGLFGLVNAGVAGIIGP  
TPWLTRDDFQRVLVNVTMGPIGVTLALLPLLQARGRVINITSVLGRLAANGGYCVSKF  
GLEAFSDSLRRDVAHFGIRVSIVEPGFFRTPVTNLESLEKTLQACWARLPPATQAHYGA  
FLTKYLMQQRIMNLICDPDLTKVSRCLEHALTARHPRTYSPGWDAKLLWLPASYLPAS  
LVDAVLTWVLPKPAQAVY

>sp|O94762|RECQ5\_HUMAN ATP-dependent DNA helicase Q5 OS=Homo sapiens GN=RECQL5 PE=1 SV=2

MSSHHTTFPDPERRVRSTLKKVFGFDSFKTPLQESATMAVVKGKNDVFCMPTGAGKSL  
CYQLPALLAKGITIVVSPLIALIQDQVDHLLTLKVRVSSLNSKLSAQERKELLADLEREK  
PQTKILYITPEMAASSSFQPTLNSLVSRHLLSYLVVDEAHCVSQWGHDFRPDYLRGALR  
SRLGHAPCVALTATATPQVQEDVFAALHLKKPVAIFKTPCFRANLFYDVQFKELISDPYG  
NLKDFCLKALGQEADKGLSGGIVYCRTREACEQLAIELSCRGVNAKAYHAGLKASERTL  
VQNDWMEEKVPVIVATISFGMGVDKANVRFAHWNIAKSMAGYYQESGRAGRDGKPSWCR  
LYYSRNRDRQVSFLIRKEVAKLQEKRGNKASDKATIMAFDALVTFCEELGCRHAAIAKYF  
GDALPACAKGCDHCQNPTAVRRRLEALERSSSWSKTCIGPSQNGFDPELYEGGRKGYGD  
FSRYDESGSGDEGRDEAHKREWNLFYQKQMLRKGDPKIEEFVPPDENCPLKEASSR  
RIPRLTVKAREHCLRLLEEALSSNRQSTRTADADLRAKAVELEHETFRNAKVANLYKAS  
VLKKVADIHRASKDGQPYDMGGSAKSCSAQAEPPEPNEYDIPPASHVYSLKPKRVGAGFP  
KGSCPFQTATELMEITRIREQAPQPERGGEHPPSRPCGLLEDGSEPLPGPRGEVPGGS  
AHYGGPSPEKKAKSSSGSSLAKGRASKQQLLATAAHKDSQSIARFFCRRVESPALLAS  
APEAEGACPSCEGVQGPPMAPEKYTGEEAGAGGHSPAPPQTEELRERPSTCPPRDQGTP  
EVQPTPAKDTWKGKRPRSQQENPESQPQKRPRPSAKPSVVAEVKGSVSASEQGTLPNTAQ  
DPFQLSAPGVSLKEAANVVVKCLTPFYKEGKFASKELFKGFARHLSHLLTQKTSPGRSVK  
EEAQNLI RHFFHGRARCESEADWHGLCGPQR

>sp|Q9NS39|RED2\_HUMAN Double-stranded RNA-specific editase B2 OS=Homo sapiens GN=ADARB2  
PE=1 SV=1

MASVLGSGRSGGLSSQLKCKSKRRRRRRSKRKDKVSILSTFLAPFKHLSPGITNTEDDD  
TLTSSAEVKENRNVGNLAARPPPSGDRARGGAPGAKRKRPLEEGNGGHLCKLQLVWKKL  
SWSVAPKNALVQLHELRLPGLQYRTVSQTGPVHAPVFAVAVEVNGLTFEGTGPTKKKAKMR  
AAELALRSFVQFPNACQAHLAMGGGPGPGTDFDTSQADFPDTLFQEFEPAPRPGLAGGR  
PGDAALLSAAYGRRRLLCRALDLVGTPATPAAPGERNPVLLNRLRAGLRYVCLAEPAE  
RRARSFVMAVSVDGRTFEGSGRSKKLARGQAAQAALQELFDIQMPGHAPGRARRTPMPQE  
FADSIQLVTQKFREVTDTLTPMHARHKALAGIVMTKGLDARQAQVVALSSGTCISGEH  
LSDQGLVVNDCHAEVVARRAFLHFLYTQLELHLSKRREDSERSIFVRLKEGGYRLRENIL  
FHLYVSTSPCGDARLHSPYEITTDLHSSKHLVRKFRGHLRTKIESGEGTVPVRGPSAVQT  
WDGVLGGEQLITMSCTDKIARWNVLGLQGALLSHFVEPVYLQSIVVGSLLHHTGHLARVMS  
HRMEGVGQLPASYRHNRLPLSGVSDAEARQPGKSPPFSMNWVVGSADEIINATTGRRSC  
GGPSRLCKHVLSARWARLYGRLSTRTPSPGDTPSMYCEAKLGAHTYQSVKQQLFAFQKA  
GLGTWVRKPPEQQQFLLTL

>sp|Q13123|RED\_HUMAN Protein Red OS=Homo sapiens GN=IK PE=1 SV=3

MPERDSEPFNSNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHEM  
PREYNEDDPAARRRKKKSYAKLRQQEIERERELAEKYRDRAKERRDGVNKDYETELI  
STTANYRAVGPTAEADKSAAEKRRQLIQESKFLGGDMEHTLVKGLDFALLQKVRAEIAS  
KEKEEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRMLFKSKAYERNELFLPGRMAYV  
VDLDDEYADTDIPTTLIRSKADCTMEAQTTLTNDIVISKLTQILSYLRQGTRNKKLKK  
KDKGKLEEKKPPEADMNIFEDIGDYVPSTTKTPRDKERERYRERERDRDRDRERER  
ERDRERERERDREREKKRHSYFEKPKVDDEPMDVDKGPSTKELIKSINEKFAGSAGW  
EGTESLKKPEDKKQLGDFFGMSNSYAECYPATMDDMAVDSDEEVDYSKMDQGNKKGPLGR  
WDFDTQEEYSEYMNNKEALPKAAFQYGIKMEGRKTRRFKETNDKAELDRQWKKISAIIE  
KRKKMEADGVEVKRPKY

>sp|Q96HR9|REEP6\_HUMAN Receptor expression-enhancing protein 6 OS=Homo sapiens GN=REEP6  
PE=1 SV=1

MDGLRQRVEHFLEQRNLVTEVLGALEAKTGVEKRYLAAGAVTLLSLYLLFGYGASLLCNL  
IGFVYPAYASIKAIESPskDDDTVWLTYWVYALFGLAEFFSDLLSWFPFYVVGKCAFL  
LFCMAPRPWNGALMLYQRVVRPLFLRHGAVDRIMNDLSGRALDAAAGITRNVKPSQTPQ  
PKDK

>sp|P05451|REG1A\_HUMAN Lithostathine-1-alpha OS=Homo sapiens GN=REG1A PE=1 SV=3

MAQTSSYFMLISCLMFLSQSQGQEAQTELPQARISCEPTNAYRSYCYFNEEDRETWDA  
DLYCQNMNSGNLVSFLTQAEGAFVASLIKESGTDDFNWIGLHDPKKNRRWHWSGSLVS  
YKSWGIGAPSSVNPGYCVSLTSSTGFQKWKDVPCEDKFSFVCKFKN

>sp|Q8NFH8|REPS2\_HUMAN RalBP1-associated Eps domain-containing protein 2 OS=Homo sapiens  
GN=REPS2 PE=1 SV=2

MEAAAAAAAAAAAAAAAAAGGGCGSGPPLLLSEGEQQCYSELFARCAGAAGGGPGSGPPEA  
ARVAPGTATAAAGPVADLFRASQLPAETLHQITELCGAKRVGYFGPTQFYIALKLIAAAQ  
SGLPVRIESIKCELPLPRFMMSKNDGEIRFGNPAELHGTVQIPYLTTEKNSFKRMDED  
KQETQSPTMSPLASPPSPPHYQRVPLSHGYSKLRSSAEQMHPAPYEQPLVQPEGSS  
SGGPGTKPLRHQASLIRSFVERELQDNSSYPDEPWRIETEEQREYYVNQFRSLQDPSSF  
ISGSVAKNFFTSKLSIPELSYIWELSDADCDGALTPEFCAAFHLIVARKNGYPLPEGL

PPTLQPEYLQAAFPKPKWDCQLFDSYSESLPANQQPRDLNRMEKTSVKDMADLPVPNQDV  
TSDDKQALKSTINEALPKDVSEDPATPKDSNSLKARPRSRYSSTSIEEAMKRGEDPPTP  
PPRPQKTHSRASSLDLNKVFQPSVPATKSGLLPPPPALPPRPCPSQSEQVSEAELLPQLS  
RAPSQAAESSPAKKDVLYSQPPSKPIRRKFRPENQATENQEPSTAASGPASAATMKPHPT  
VQKQSSKQKKAIIQTAIRKNKEANAVLARLNSELQQQLKEVHQERIALENQLEQLRPVTVL

>sp|O15258|RER1\_HUMAN Protein RER1 OS=Homo sapiens GN=RER1 PE=1 SV=1  
MSEGDSVGESVHGKPSVVYRFFTRLGQIYQSWLDKSTPYTAVRWVVTGLSFVYMIRVYL  
LQGWYIVTYALGIYHLNLFIAFLSPKVDPSLMEDSDDGPSLPTKQNEEFRPFIRRLPEFK  
FWHAATKGILVAMVCTFFDAFNVPVFWPILVMYFIMLCITMKRQIKHMIKYRIYIPFTHG  
KRRYRGKEDAGKAFAS

>sp|Q9H628|RERGL\_HUMAN Ras-related and estrogen-regulated growth inhibitor-like protein  
OS=Homo sapiens GN=RERGL PE=2 SV=1  
MSNFLHLKYNEKSVSVTKALTVRFLTTRFIGEYASNFESIYKKHLCLERKQLNLEIYDPC  
SQTQKAKFSLTSELHWADGFVIVYDISDRSSFATAKALIYRIREPQTSCHKRAVESAVFL  
VGNKRDLCVREVGVWEEGQKLALENRCQFCELSAAEQSLEVEMMFIRI IKDILINFKLKE  
KRRPSGSKSMAKLINNVFGKRRKSV

>sp|Q6H3X3|RET1G\_HUMAN Retinoic acid early transcript 1G protein OS=Homo sapiens GN=RAET1G  
PE=1 SV=1  
MAAAASPAFLRLPLLLLLSSWCRTGLADPHSLCYDITVIPKFRPGPRWCAVQQGVDEKT  
FLHYDCGSKTVPVSPGLGKKNVTTAWKAQNPVLREVVDILTEQLLDIQLENYIPKEPLT  
LQARMSCEQKAEGHGSWSWQLSFDGQIFLLFDSENRMWTTVHPGARKMKEKWENDKDTM  
SFHYISMGDCTGWLEDFLMGMDSTLEPSAGAPPTMSSGTAQPRATATTLILCCLLIMCLL  
ICSRHSLTQSHGHHQSLQPPHPPLHPTWLLRRVLWSDSYQIAKRPLSGGHVTRVTL  
IIGDDSHSLPCPLALY TINNGAARYSEPLQVSI

>sp|P02753|RET4\_HUMAN Retinol-binding protein 4 OS=Homo sapiens GN=RBP4 PE=1 SV=3  
MKVWVALLLLAALGSGRAERDCRVSSFRVKENFDKARFSGTWYAMAKKDPEGLFLQDNIV  
AEFSVDETGQMSATAKGRVRLNNDVDCADMVGTFDTEDPAKFKMKYWGVASFLQKGND  
DHWIVD TDYDTYAVQYSCRLLNDGT CADSYSFVFSRDPNGLPPEAQKIVRQRQEELCLA  
RQYRLIVHNGYCDGRSERLL

>sp|O60673|REV3L\_HUMAN DNA polymerase zeta catalytic subunit OS=Homo sapiens GN=REV3L  
PE=1 SV=2  
MFSVRIVTADYYMASPLQGLDTCQSPLTQAPVKVPVVRVFGATPAGQKTCLHLHGIFPY  
LYVPYDGYGQQPESYLSQMAFSIDRALNVALGNPSSTAQHVFVSVLSGMPFYGYHEKER  
HFMKIYLYNPTMVKRICELLQSGAIMNKFYQPHEAHIPYLLQLFIDYNYGMNLINLAAV  
KFRKARRKSNTLHATGCKNHLGNSLADTLFRWEQDEIPSSLILEGVPEQSTCELEVDA  
VAADILNRLDIEAQIGGNPGLQAIWEDEKQRRNRNNETSQMSQPESQDHRFVPATESEKK  
FQKRLQEILKQNDFSVTLSGSVSDYSDGSQEFSAELTLHSEVLSPEMLQCTPANMVEVHKD  
KESSKGHTRHKVEEALINEEAILNLMENSQTFQPLTQRLSESPVFMDSPPDEALVHLLAG  
LES DGYRGERNRMPSPCRSFGNKNYPQNSDDEENEPQIEKEEMELSLVMSQRWDSNIEEH  
CAKKRSLCRNTHRSSTEDDDSSSGEEMWSDNSLLLASLIPQLDGTADENS DNPLNEN  
SRTHSSVIATSKLSVKPSIFHKDAATLEPSSSAKITFQCKHTSALSSHVLNKEDLIEDLS  
QTNKNTKGLDNSVTSFTNESTYSMKYPGSLSSTVHSENSHKENSKEILPVSSCESSIF  
DYEEDIPSVTRQVPSRKYTNIKIEKDSPIHMHHPNENTLGKNSFNFSDLNHSKNKVS  
SEGNEKGNSTALSSLPSSFTENCELLSCSGENRTMVHSLNSTADESGLNKLKIRYEEFQ

EHKTEKPSLSQQAHYMFFPSVVLNCLTRPQKLSPVTYKLQPGNKPSRLKLNKRKLAGH  
QETSTKSSETGSTKDNFIQNNPCNSNPEKDNALASDLTKTTRGAFENKTPTDGFIDCHFG  
DGTLETEQSFGLYGNKYTLRAKRVNYETEDSESSFVTHNSKISLPHPMIEGESLDGTLK  
SRKRRKMSKKLPVVIKYIIINRFRGRKNMLVKLGKIDSKEKQVILTEEKMELYKKLAPL  
KDFWPKVPDSPATKYPYIPLTPKKSHRRKSKHKSAKKKTGKQQRNNENIKRTLSFRKKR  
SHAILSPPSPSYNAETEDCDLNYSDVMSKLGFLSERSTSPINSSPPRCWSPTDPRAEEIM  
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LQKQKQDMPLMGSAVDHPLSASLPTGINAQQKLSGCFSSFLSKSVDLQTFPSSRDDLHP  
SVVCNSIGPGVSKINVQRPHNQSAMFTLKESTLIQKNIFDLNHLQVAQNTQISSGMSS  
KIEDNANNIQRNYLSSIGKLEYSRNSLESKLDQAYTPNFLHCKDSQQQIVCIAEQSKHSE  
TCSPGNTASEESQMPNCFVTSRSPKQIAWEQKQRGFILDMSNFKPERVKPRSLSEAI  
SQTKALSQCKNRNVSTPSAFGEGQSGLAVLKELLQKRQQAQNANTTQDPLSNKHQPNKN  
ISGSLEHNKANKRTRSVTSRKPRTPRSTKQKEKIPKLLKVDNLQNSSQLDNSVSDS  
PIFFSDPGFESCYSLEDSLPEHNYNFDINTIGQTGFCFYSQSFVPADQNLQKFLSD  
AVQDLFPGQAIKNEFLSHDNQKCEDEKHHTTDSASWIRSGTLSPEIFEKSTIDSNNRR  
HNQWKNFSHPLTTRSNSIMDSFCVQQAEDCLSEKSRLNRSSVSKEVFLSLPQPNNSDWIQ  
GHTRKEMGQSLDSANTSFTAILSSPDGELVDVACEDLELYVSRNNDMLTPTDSSPRSTS  
SPSQSKNGSFTPTANILKPLMSPPSREEIMATLLDHDLSETIYQEPFCSNPSDVPEKPR  
EIGGRLLMVETRLANDLAIEFEGDFSLEGLRLWKTAFSAMTQNP RP GSPLRSGQGVVNKGS  
SNSPKMVEDKKIVIMPCKCAPSRQLVQVWLQAKEEYERSKKLPKTKPTGVVKAENFSS  
VNPDDKPVVPPKMDVSPCILTPTAHTKEDVDNSQIALQAPTTCGCSQTASESQMLPPVASA  
SDPEKEDDDDDNYIISYSSPDSPVIPPWQQPISPDSKALNGDDRPSSPVEELPSLAFENF  
LKPIKDGITKSPCSEPQEPLVISPINTRARTGKCESLCFHSTPIIQRKLLERLPEAPGLS  
PLSTEPKTQKLSNKKGSNTDTLRRVLLTQAKNQFAAVNTPQKETSQIDGPSLNNTYGFKV  
SIQNLQEAALHEIQNLTLISVELHARTRRDLEPDPEFDPICALFYCISSDTPLPDTEKT  
ELTGVIVIDKDKTVFSQDIRYQTPLLIRSGITGLEVTYAADEKALFHEIANIKRYDPDI  
LLGYEIQMHSWGYLLQRAAALSIDLCRMISRVPDDKIENRFAAERDEYGSYTMSEINIVG  
RITLNLWRIMRNEVALTNYTFENVSFHVLHQRFPFTFRVLSDFWFDNKTDLYRWKMDHY  
VSRVRGNLQMLEQLDLIGKTSEMARLFGIQFLHVLTRGSQYRVESMMLRIAKPMNYIPVT  
PSVQQRSMRAPQCVPLIMEPESRFYSNSVLVDFQSLYPSIVIAYNCFSTCLGHVENL  
GKYDEFKFGCTSLRVPPDLLYQVRHDITVSPNGVAFVKPSVRKGVLPRLLEEILKTRFMV  
KQSMKAYKQDRALSRLDARQLGLKLIANVTFGYTSANFSGRMPCIEVGDSIVHKARETL  
ERAIKLVNDTKKWGARVVYGD TDSMFVLLKGATKEQSFKIGQEIAEAVTATNPKPVKLKF  
EKVYLPVCLQTKKRYVGYMYETLDQKDPVFDAKGIETVRRDSCPAVSKILERSLKLLFET  
RDISLIKQYVQRQCMKLEGGASIQDFIFAKEYRGFSFSYKPGACVPALELTRKMLTYDRR  
SEPQVGERVPYVYIYGTPGVPLIQLVRRPVEVLQDPTLRLNATYYITKQILPPLARIFSL  
IGIDVFSWYHELPRIHKATSSSRSEPEGRKGTISQYFTTLHCPVCDLTQHGICSKCRSQ  
PQHVAVILNQEIRELERQQEQLVKICKNCTGCFDRHIPCVSLNCPVLFKLSRVNRELSKA  
PYLRQLLDQF

>sp|Q96IC2|REXON\_HUMAN Putative RNA exonuclease NEF-sp OS=Homo sapiens GN=44M2.3 PE=2  
SV=1

MEPEREGTERHPRKVRESRQAPNKLVGAAEAMKAGWDLEESQPEAKKARLSTILFTDNCE  
VTHDQLCELLKYAVLGKSNVPKPSWCQLFHQNLNNVVVFLQGMSQLHFYRFYLEFGCL

>sp|Q2KHR2|RFX7\_HUMAN DNA-binding protein RFX7 OS=Homo sapiens GN=RFX7 PE=1 SV=1

M S S S R A Q Q M H A F S W I R N T L E E H P E T S L P K Q E V Y D E Y K S Y C D N L G Y H P L S A A D F G K I M K N V  
 F P N M K A R R L G T R G K S K Y C Y S G L R K K A F V H M P T L P N L D F H K T G D G L E G A E P S G Q L Q N I D E E  
 V I S S A C R L V C E W A Q K V L S Q P F D T V L E L A R F L V K S H Y I G T K S M A A L T V M A A A P A G M K G I T Q  
 P S A F I P T A E S N S F Q P Q V K T L P S P I D A K Q Q L Q R K I Q K K Q Q E Q K L Q S P L P G E S A A K K S E S A T  
 S N G V T N L P N G N P S I L S P Q P I G I V V A A V P S P I P V Q R T R Q L V T S P S P M S S S D G K V L P L N V Q V  
 V T Q H M Q S V K Q A P K T P Q N V P A S P G G D R S A R H R Y P Q I L P K P A N T S A L T I R S P T T V L F T S S P I  
 K T A V V P A S H M S S L N V V K M T T I S L T P S N S N T P L K H S A S V S S A T G T T E E S R S V P Q I K N G S V V  
 S L Q S P G S R S S S A G G T S A V E V K V E P E T S S D E H P V Q C Q E N S D E A K A P Q T P S A L L G Q K S N T D G  
 A L Q K P S N E G V I E I K A T K V C D Q R T K C S R C N E M L P G T S T G N N Q S T I T L S V A S Q N L T F T S S S  
 S P P N G D S I N K D P K L C T K S P R K R L S S T L Q E T Q V P P V K K P I V E Q L S A A T I E G Q K Q G S V K K D Q  
 K V P H S G K T E G S T A G A Q I P S K V S V N V S S H I G A N Q P L N S S A L V I S D S A L E Q Q T T P S S S P D I K  
 V K L E G S V F L L D S D S K S V G S F N P N G W Q Q I T K D S E F I S A S C E Q Q Q D I S V M T I P E H S D I N D L E  
 K S V W E L E G M P Q D T Y S Q Q L H S Q I Q E S S L N Q I Q A H S S D Q L P L Q S E L K E F E P S V S Q T N E S Y F P  
 F D D E L T Q D S I V E E L V L M E Q Q M S M N N S H S Y G N C L G M T L Q S Q S V T P G A P M S S H T S S T H F Y H P  
 I H S N G T P I H T P T P T P T P T P T P T P T S E M I A G S Q S L S R E S P C S R L A Q T T P V D S A L G S S  
 R H T P I G T P H S N C S S S V P P S P V E C R N P F A F T P I S S M A Y H D A S I V S S S P V K P M Q R P M A T H P  
 D K T K L E W M N N G Y S G V G N S S V S G H G I L P S Y Q E L V E D R F R K P H A F A V P G Q S Y Q S Q S R H H D T H  
 F G R L T P V S P V Q H Q G A T V N N T N K Q E G F A V P A P L D N K G T N S S A S S N F R C R S V S P A V H R Q R N L  
 S G S T L Y P V S N I P R S N V T P F G S P V T P E V H V F T N V H T D A C A N N I A Q R S Q S V P L T V M M Q T A F P  
 N A L Q K Q A N S K K I T N V L L S K L D S D N D D A V R G L G M N N L P S N Y T A R M N L T Q I L E P S T V F P S A N  
 P Q N M I D S S T S V Y E F Q T P S Y L T K S N S T G Q I N F S P G D N Q A Q S E I G E Q Q L D F N S T V K D L L S G D  
 S L Q T N Q Q L V G Q G A S D L T N T A S D F S S D I R L S S E L S G S I N D L N T L D P N L L F D P G R Q Q G Q D D E  
 A T L E E L K N D P L F Q Q I C S E S M N S M T S S G F E W I E S K D H P T V E M L G

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>sp|Q3MIN7|RGL3_HUMAN Ral guanine nucleotide dissociation stimulator-like 3 OS=Homo
sapiens GN=RGL3 PE=1 SV=2
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MERTAGKELALAPLQDWGEETEDGAVYSVSLRRQRSQRRSPAEGPGGSQAPSPIANTFLH  
YRTSKVRVLRAARLERLVGELVFGDREQDPSFMPAFLATYRTFVPTACLLGLLPPMPPP  
PPPGVEIKKTAVQDLSFNKNLRAVSVLGSWLQDHPQDFRDPPAHSDLGSVRTFLGWAAP  
GSAEAQKA EKLL EDFLEEAEREQEEPPQVWTGPPRVAQTSDPDSSEACAE EEEGLMPQG  
PQLLDFSVDEAEQLTLIDLELFSKVRLYECLGSVWSQRDRPGAAGASPTVRATVAQFNT  
VTGCVLGSVLGAPGLAAPQRAQRLEKWIRIAQRCREL RN FSSLRAILSALQSNPIYRLKR  
SWGAVSREPLSTFRKLSQIFSDENHLSREILFQEEATEGSQEEDNTPGSLSPKPPPGP

VPYLGTFITDLVMLDTALPDMLEGLINFEKRRKEWEILARTIQQLRRCQSYTLSPHPP  
LAALHAQNQLTEEQSYRLSRVIEPPAASCPSSPRIRRRISLTKRLSAKLAREKSSSPSGS  
PGDPSSPTSSVSPGSPSSPRSRDAPAGSPASPQGPSTKLPLSLDLPSRPFALPLG  
SPRIPLPAQQSSEARVIRVSIIDNDHGNLYRSILLTSQDKAPSVVRRALQKHNPQPWACD  
YQLFQVLPGDRVLLIPDNANVFYAMSPVAPRDFMLRRKEGTRNTLSVSPS

>sp|Q86X27|RGPS2\_HUMAN Ras-specific guanine nucleotide-releasing factor RalGPS2 OS=Homo sapiens GN=RALGPS2 PE=1 SV=1

MDLMNGQASSVNIAATASEKSSSESLSDKGSELKKSFDVAVFDVLKVTPEEYAGQITLM  
DVPVFKAIQPDLESCGWNKKEKYSSAPNAFAFTRRFNHVSFVWVREILHAQTLKIRAEV  
LSHYIKTAKKLYELNNLHALMAVVSGLSAPIFRLTKTWALLSRKDKTTFEKLEYVMSKE  
DNYKRLRDYISSLKMTPCIPYLGILYLSDLTYIDSAYPSTGSILENEQRSNLMNNILRIIS  
DLQQSCEYDIPMLPHVQKYLNSVQYIEELQKFVEDDNYKLSLKIEPGTSTPSAASREDL  
VGPEVGASPGSGRKSVAEAGALLPQTTPSPRNLIIPHGRKCHSLGYNFIHKMNTAEFKSA  
TFPNAGPRHLLDDSVMEPHAPSRGQAESSTLSSGISIGSSDGSELSEETSWPAFERNRLY  
HSLGPVTRVARNGYRSHMKASSAESEDLAVHLYPGAVTIQGVLRRTLLKEGKKPTVAS  
WTKYWAALCGTQLFYAAKSLKATERKHFKSTSNKNVSVIGWMVMMADDPEHPDLFLLTD  
SEKGNYSYKFQAGNRMNAMLWFKHLSAACQSNKQVPTNLMTFE

>sp|O14924|RGS12\_HUMAN Regulator of G-protein signaling 12 OS=Homo sapiens GN=RGS12 PE=1 SV=1

MFRAGEASKRPLPGSPPRVRSVEVARGRAGYGFTLSGQAPCVLSCVMRGSPADFVGLRA  
GDQILAVNEINVKKASHEDVVKLIGKCSGVLHMVIAEGVGRFESCSSDEEGGLYEGKGWL  
KPKLDSKALGINRAERVVEEMQSGGIFNMIFENPSLCASNSEPLKQKRSLSASAATRFD  
VGHESINPNPNMLSKEEISKVIHDDSVFSIGLESHDDFALDASILNVAMIVGYLGSIEL  
PSTSSNLESDSLQAIRGCMRRLRAEQKIHSVMTKIMHDCVQLSTDKAGVVAEYPAEKLA  
FSAVCPDDRRFFGLVTMQTNDGSLAQEEEGALRTSCHVFMVDPDLFNHKKIHHQGIARRFG  
FECTADPTDNGCLEFPASSLPVLQFISVLYRDMGELIEGMRARAFLDGDADAHQNNSTSS  
NSDSGIGNFHHQEEKSNRVLVVDLGGSSSRHGPGGSAWDGVGGRGAQPWGAPWTGPFCDP  
EGSPPEAAHQTDTRFDLNLKHLGPASPVEVPPASLRSSVPPSKRGTVGAGCGFNQRWLPV  
HVLREWQCIGHTSDQSYTDSTDGWSSINCGTLPPPMKIPADRYRVEGSFAQPPLNAPKR  
EWSRKAFGMQSIGFPHRNVRKTKEDKKGSKFGRGTGLTQPSQRTSARRSFGRSKRFSITR  
SLDDLESATVSDGELTGADLKDCVSNNSLSSNASLPSVQSCRRLRERRVASWAVSFERLL  
QDPVGVRYFSDFLRKEFSEENILFWQACEYFNHVPADHKKELSYRAREIFSFKFLCSKATT  
PVNIDSQAQLADDVLRAPHPDMFKEQQLQIFNLMKFDSYTRFLKSPLYQECILAEVEGRA  
LPDSQQVPSSPASKHSLGSDHSSVSTPKKLSGSKSGRSLNEELGDEDESEKKRKGAFPSW  
SRTRSTGRSQKKREHGDHADDALHANGGLCRRESQGSVSSAGSLDLSEACRTLAPEKDKA  
TKHCCIHLPDGTSCVVAVKAGFSIKDILSGLCERHGINGAAADFLVGGDKPLVLHQDSS  
ILESRLRLREKRTLFRLLDLPINRSVGLKAKPTKPVTEVLRPVVARYGLDLSGLLVRLSG  
EKEPLDLGAPISSLDGQRVVLEEKDPSRGKASADKQKGVVPKQNTAVNSSSRNHSATGEE  
RTLKGSNSIKIKGENGNARDPRLSKREESIAKIGKKKYQKINLDEAEFFELISKAQSN  
RADDQRGLLRKEDLVLEPFLRLPPGSTELTLPTPAAVAKGFSKRSATGNGRESASQPGEQ  
WEPVQESSDSPSTSPGSASSPPGPPGTTPPGQKSPSGPFCTPQSPVSLAQEGTAQIWKRRQ  
SQEVEAGGIQTVEDEHVAELTLMGEGDISSPNSTLLPPPSTPQEVPGPSRPGSGTHGSRD  
LPVNRIIDVDLVTGSAPGRDGGIAGAQAQAGPRGSQASGGPPTSDLPGLGPVPGEPAPKPKTS  
AHHATFV

>sp|043566|RGS14\_HUMAN Regulator of G-protein signaling 14 OS=Homo sapiens GN=RGS14 PE=1 SV=4

MPGKPKHLGVPNGRMVLAVSDGELSSTTGPQQGEGRGSSLSIHSLPSGPSSPFPTEEQP  
VASWALSFERLLQDPLGLAYFTEFLKKEFSAENVTFWKACERFQQIPASDTQQLAQEARN  
IYQEFLLSSQALSPVNIDRQAWLGEEVLAEPRPDMFRAQQLQIFNLMKFDSYARFVKSPLY  
RECLLAEAEGRPLREPGSSRLGSPDATRKKPKLKPGKSLPLGVEELGQLPPVEGPGGRPL  
RKSFRRRELGGTANAALRRESQGSLSNSASLDLGFLAFVSSKSESHRKSLSGTEGESES  
GKYCCVYLPDGTASLALARPGLTIRDMLAGICEKRLSLPDIKVYLVGNEQALVLDQDCT  
VLADQEVRLNRTIFELELTALERVVRISAKPTKRLQEALQPILEKHGLSPLEVLRH  
EKGPLDLGKLVSSVAAQRLVLDLTPGVKISKARDKSPCRSQGCPPTQDKATHPPASPS  
SLVKVPSSATGKRQTCIDIEGLVELLNRVQSSGAHDQRGLLRKEDLVLPFLQLPAQGPSS  
EETPPQTKSAAQPIGGSLNSTTDSAL

>sp|Q9UGC6|RGS17\_HUMAN Regulator of G-protein signaling 17 OS=Homo sapiens GN=RGS17 PE=1 SV=2

MRKRQSQNEGTPAVSQAPGNQRPNTCCFCWCCCCSCSCLTVRNEERGENAGRPTHHTK  
MESIQVLEECQNPTAEVLSWSQNFDKMMKAPAGRNLFREFLRTEYSEENLLFWLACEDL  
KKEQNKKVIEEKARMIYEDYISILSPKEVSLDSRVREVINRNLLDPNPHMYEDAQLQIYT  
LMHRDSFPRFLNSQIYKSFVESTAGSSSES

>sp|076081|RGS20\_HUMAN Regulator of G-protein signaling 20 OS=Homo sapiens GN=RGS20 PE=1 SV=4

MPQLSQDNQECLQKHFSRPSIWTQFLPLFRAQRYNTDIHQITENEGDLRAVPDIKSFP  
QLPDSPAAPKLFGLSSPLSSSLARFFSHLLRRPPPEAPRRRLDFSPLLPALPAARLSRGH  
EELPGRLLSLLGAALALPGRPSGGRPLRPPHPVAKPREEDATAGQSSPMPQMGSERMEMR  
KRQMPAAQDTPGAAPGQPGAGSRGSNACCFWCCCCSCSCLTVRNQEDQRPTIASHELRA  
DLPTWEESPAPTL EEVNAWAQSFDKLMVTPAGRNAFREFLRTEFSEENMLFWMACEELKK  
EANKNIIEEKARIYEDYISILSPKEVSLDSRVREVINRNMVEPSQHIFDDAQLQIYTL  
MHRDSYPRFMNSAVYKDLLQSLSEKSIEA

>sp|Q02094|RHAG\_HUMAN Ammonium transporter Rh type A OS=Homo sapiens GN=RHAG PE=1 SV=2

MRFTFPLMAIVLEIAMIVLFGLFVEYETDQTVLEQLNITKPTDMGIFFEYLYPLFQDVHVM  
IFVGFGLMTFLKKYGFSSVGINLLVAALGLQWGTIVQGILQSQQGKFNIGIKNMINADF  
SAATVLISFGAVLGKTSPTQMLIMTILEIVFFAHNEYLVSEIFKASDIGASMTIHAFGAY  
FGLAVAGILYRSLRKGHENEESAYYSDLFAMIGTLFLWMFWPSFNSAIAEPGDKQCRAI  
VNTYFSLAACVLTAFAFSSLVEHRGKLNMVHIQNATLAGGVAVGTCADMAIHPFGSMIIG  
SIAGMVSVLGYKFLTPLFTTKLRIHDTCGVHNLHGLPGVVGGLAGIVAVAMGASNTSMAM  
QAAALGSSIGTAVVGGLMTGLILKLPLWGQPSDQNCYDDSVYWKVPKTR

>sp|Q9Y3P4|RHBD3\_HUMAN Rhomboid domain-containing protein 3 OS=Homo sapiens GN=RHBD3 PE=2 SV=1

MHARGPHGQLSPALPLASSVLMMLSTLWLVGAGPGLVLAPELLDPWQVHRLLTHALGH  
TALPGLLLSLLLPTVGWQEQEHLGTLRFLHASALLALASGLLAVLLAGLGLSSAAGSCG  
YMPVHLAMLAGEGHRPRRPRGALPPWLSPWLLLALTPLLSSEPPFLQLLCGLLAGLAYAA  
GAFRWLEPSERRLQVLQEGVLCRTLACWPLRLLATPGSLAELPVTHPAGVRPPIPGPPY  
VASPDLWSHWEDSALPPSLRPVQPTWEGSSEAGLDWAGASFSPGTPMWAALDEQMLQEG  
IQASLLDGAQEPQSAPWLSKSSVSSLRLQQLERMGFPTAQAVVALAATGRVEGAVSLLV  
GGQVGTETLVTHGKGGAHSEGGPGPP



>sp|Q9UBD6|RHCG\_HUMAN Ammonium transporter Rh type C OS=Homo sapiens GN=RHCG PE=1 SV=1

MAWNTNLRWRLPLTCLLLQVIMVILFGVFVRYDFEADAHWWSERTHKNLSDMENEFYYRY  
PSFQDVHVMVFGVGFGLMTFLQRYGFSAVGFNLLAAFGIQWALLMQGWFHFLQDRYIVV  
GVENLINADFCVASVCVAFGAVLGKVSPIQLLIMTFFQVTLFAVNEFILLNLLKVKDAGG  
SMTIHTFGAYFGLTVTRILYRRNLEQSKERQNSVYQSDLFAMIGTLFLWMYWPSFNSAIS  
YHGDSQHRAAINTYCSLAACVLTSVAISSALHKKGKLDMVHIQNATLAGGVAVGTAAEMM  
LMPYGALIIGFVCGIISTLGFVYLTPLFESRLHIQDTCGINNLHGIPGIIGGIVGAVTAA  
SASLEVYKKEGLVHSFDFQGFNGDWTARTQGKFQIYGLLVTAMALMGGIIVGLILRLPF  
WGQPSDENC FEDAVYWEMPEGNSTVYIPEDPTFKPSGPSVPSVPMVMSPLPMASSVPLVP

>sp|Q9BRR9|RHG09\_HUMAN Rho GTPase-activating protein 9 OS=Homo sapiens GN=ARHGAP9 PE=1 SV=2

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WWLARRLEAPSTSRPIFVPAAYMIEESIPSQSPTTVIPGQLLWTPGPKLFHGSLEELSQA  
LPSRAQASSEQPPPLPRKMCRSVSTDNLSPSLLKPFQEGPSGRSLSQEDLPSEASASTAG  
PQPLMSEPPVYCNLDLRRCPSPPPGPACPLLQRLDAWEQHLDPNNGRCFYINSLTGCK  
SWKPPRRSRSETNPGSMEGTQTLKRNDVLQPQAKGFRSDTGTPEPLDPQGSLSLSQRTS  
QLDPPALQAPRPLPQLDDPHEVEKSGLLNMTKIAQGGRKLRKNWGPSWVVLTGNSLVFY  
REPPPTAPSSGWGPAGSRPESSVDLGAALAHGRHLSSRRNVLHIRTIPGHEFLLQSDHE  
TELRAWHRALRTVIERLVRWEARREAPTGRDQSGSDRENPLELRLSGSGPAELSAGEDE  
EESELSVSKPLLRLSSRRSSIRGPEGTEQNRVRNKLKRLIAKRPPQLSLQERGLLRDQVF  
GCQLES LCQREGDTVPSFLRLCIAAVDKRGLDVG IYRVSGNLAVVQKLRFLVDRERAVT  
SDGRYVFPEQPGQEGRLDLSTEWDDIHVVTGALKLFLREL PQLVPPLLLPHFRAALAL  
SESEQCLSQIQELIGSMPKPNHDTLRYLLEHLCRVIAHSDKNRMTPHNLGIVFGPTLFRP  
EQETSDPAAHALYPGQLVQLMLTNFTSLFP

>sp|Q14CB8|RHG19\_HUMAN Rho GTPase-activating protein 19 OS=Homo sapiens GN=ARHGAP19 PE=1 SV=1

MATEAQSEGEVPARESGRSDAICSFVICNDSSLRGQPIIFNPdffVEKLRHEKPEIFTEL  
VVSNITRLIDLPGTELAQLMGEVDLKLPGGAGPASGFFRSLMSLKRKEKGVIFGSPLTEE  
GIAQIYQLIEYLHKNL RVEGLFRVPGNSVRQQILRDALNNGTDIDLESGEFHSNDVATLL  
KMFLGELPEPLLTHKHFNHLK IADLMQFDDKGNKTNIPDKDRQIEALQLLFLILPPPNR  
NLLKLLLDLLYQTAKKQDKNKMSAYNLALMFAPHVLWPKNVTANDLQENITKLNSGMAFM  
IKHSQKLFKAPAYIRECARLHYLGSR TQASKDDL DLIASCHTKSFQLAKSQKRN RVDS CP  
HQEETQHHTEALREL FQHVDMPESAKKKQLIRQFNKQSLTQTPGREPSTSQVQKRARS  
RSFSGLIKRKVLGNQMMSEKKKNPTPESVAIGELKGT SKENRNL LFSGSPAVTMTPTRL  
KWSEGGKEGKKGFL

>sp|Q8N264|RHG24\_HUMAN Rho GTPase-activating protein 24 OS=Homo sapiens GN=ARHGAP24 PE=1 SV=2

MEENNDSTENPQQGQGRQNAIKCGWLRKQGGFVKTWHTRWFLKGDQLYYFKDEDETKPL  
GTIFLPGNKVSEHPCNEENPGKFLFEVVPGGDRDRMTANHESYLLMASTQNDMEDWVKS I  
RRVIWGPFGG G IFGQKLED TVRYEKRYGNRLAPMLVEQCVD FIRQRGLKEEGLFRLPGQA  
NLVKELQDAFDCGEKPSFDSNTDVHTVASLLKLYLRELPEPVIPYAKYEDFLSCAKLLSK  
EEEAGVKELAKQVKS LPVYNYNLLKYICRFLDEVQSYSGVNKMSVQNLATVFGPNILRPK  
VEDPLTIMEGTVV VQQLMSVMISKHDCLFPKDAELQSKPQDGVSNNEIQKKATMGQLQN  
KENNNTKDS PRQCSWDKSESPQRSSMNNGSPTALSGSKTNSPKNSVHKLDVSRSPPLMV

KKNPAFNKSGIVTNGSFSSSNAEGLEKTQTPNGSLQARRSSSLKVS GMTKMGTHSVQNG  
TVRMGILNSDTLGNPTNVRNMSWLPNGYVTLRDNKQKEQAGELGQHNRLSTYDNVHQFS  
MMNDDKQSIDSATWSTSSCEISLPENSNSCRSSTTTCPEQDFFGGNFEDPVLDPGPQDD  
LSHPRDYESKSDHRSVGGRRSRATSSSDNSETFVGSSSNHSAHSLVSSLKQEMTKQKI  
EYESRIKSLEQRNLTLETMMSLHDELDQERKKFTMIEIKMRNAERAKEDAEKRNDMLQK  
EMEQFFSTFGELTVEPRRTERGNTIWIQ

>sp|Q9UNA1|RHG26\_HUMAN Rho GTPase-activating protein 26 OS=Homo sapiens GN=ARHGAP26 PE=1  
SV=1

MGLPALEFSDCCLDSPHFRETLSHEAELDTNKF IKELIKDGKSLISALKNLSSAKRKF  
ADSLNEFKFQCIGDAETDDMCIA RSLQEFATVLRNLEDERIRMIENASEVLITPLEKFR  
KEQIGAAKEAKKKYDKETEKYCGILEKHLNLSSKKKESQLQEADSQVDLVRQHFYEVSL  
YVFKVQEVQERKMFEFVEPLLAFLQGLFTFYHHGYELAKDFGDKTQLTISIQNTRNRFE  
GTRSEVESLMKKMKENPLEHKTISPYTMEGYLYVQEKRHFGTSWVKHYCTYQRDSKQITM  
VPFDQKSGGKGGEDEVILKSCSTRRKTDSEIKRFCFDVEAVDRPGVITMQALSEEDRRLW  
MEAMDGREPVYNSNKDSQSEGTALDSIGFSIIRKCIHAVETRGINEQGLYRIVGVNSRV  
QKLLSVLMDPKTASETETDICAWEIKTITSALKTYLRMLPGPLMMYQFQRSFIKAAKLE  
NQESRVSEIHSLVHRLPEKNRQMLQLLMNHLANVANNHKQNLMTVANLGVVFGPTLLRPQ  
EETVAAIMDIKFQNI VIEIL IENHEKIFNTVPDMPLTNAQLHLSRKKSSDSKPPSCSERP  
LTLFHTVQSTEQEQRNSI INSSLESVSSNPNSILNSSSSLQPNMNSSDPDLAVVKPTRP  
NSLPNPSPSPTSPLSPSWPMFSAPSSPMPTSSSTSSDSSPVRSVAGFVWFSAAVVLSLARS  
SLHAVFSLLVNFVPCPNLHLLFDRPEEAVHEDSSTPFRKAKALYACKAEHDSELSFTAG  
TVFDNVHPSQEPGWLEGTLNGKTGLIPENYVEFL

>sp|Q6ZUM4|RHG27\_HUMAN Rho GTPase-activating protein 27 OS=Homo sapiens GN=ARHGAP27 PE=1  
SV=3

MAADVVDVYVLVEHPFEYTGKDGRRAIRPNERYRLRRSTEHWVHRREPGRPFYLP  
AQYVRELPA LGNPAAAA PPGHPSPA APELAYDYRFVSA AATAGPDGAPEESGGRASSL  
CGPAQRGAATQRSSLAPGLPACLYLRPAAPVRPAQSLNDLACAAVSPAGLLGSSGSFKA  
CSVAGSWVCPRPLARSDSENVYEV IQDLHVPPPEESAEQVDDPPEPVYANIERQPRATSP  
GAAAAPLPSPVWETHDAGTGRPYYPNPDTGVTTWESPFEAAEGAASPATSPASVDSHVS  
LETWGGQYWDEESRRVFFYNPLTGETAWEDEAENEPEEELEMQGLSPGSPGDP RPPTPE  
TDYPESLTSYPEEDYSPVGSFGEPGPTSPLTTPPGWSCHVSQDKQMLYTNHFTQE QWVRL  
EDPHGKPYFYNPEDSSVRWELQVPVPAPRS IHKSSQGDTPAQASPPEEKVPAELDEVG  
SWEEVSPATAAVRTKTLDKAGVLHRTKTADKGKRLRKKHWSASWTVLEGGVLTFFKDSKT  
SAAGGLRQPSKFSTPEYTVELRGATLSWAPKDKSSRKNVLELRSRDGSEYLIQHDSEAI I  
STWHKAIAQGIQELSAELPPEESES SRVDFGSSERLGSWQEKEEDARPNA AAPALGPVGL  
ESDLSKVRHKL RKFLQRRPTLQSLREKGYIKDQVFGCALAALCERERSRVPRFVQQCIRA  
VEARGLDIDGLYRISGNLATIQKLRYKVDHDERLDDGRWEDVHVITGALKLFFRELPE  
PLFPFSHFRQFIAAIKLQDQARRSRCVRDLVRSLPAPNHDTLRMLFQHLCRVIEHGEQNR  
MSVQSVAIVFGPTLLRPEVEETSMPMTMVFNQNVVELILQQCADIFPPH

>sp|Q9P2N2|RHG28\_HUMAN Rho GTPase-activating protein 28 OS=Homo sapiens GN=ARHGAP28 PE=1  
SV=3

MEVEDSGGVLTAYHSYARAQPPNAESRCAPRAAASHPLSRKSI PCRRINRMLS NESLH  
PPAFSRNSEASVDSASMEDFWREIESIKDSSMGGQEPPPAEVTVPDEGELEAEWLQDV  
GLSTLISGDEEEDGKALLSTLTRTQAAAVQKRYHTYTQTMRKKDKQSIRDVRDIFGVSES

PPRDTCGNHTNQLDGTKEERELPRVIKTSGSMPPDASLNSTTLDASQDKEGSFAVPRSD  
SVAILETIPVLPVHSNGSPEPGQPVQNAISDDDFLEKNIPPEAEELSFEVSYSEMVTAL  
KRNLKKSEIKKEDYVLTKFNVQKTRFGLTEAGDLSAEDMKKIRHLSLIELTAFDFAFGI  
QLKRNKTEKVKGRDNGIFGVPLTVLLDGRKKDPGVKVPVLVLQKFFEKVEESGLESEGI  
RLSGCTAKVKQYREELDAKFNADKFKWDMCHREAAVMLKAFFRELPTSLEFPVEYIPAFI  
SLMERGPHVKVQFQALHLMVMALPDANRDAAQALMTFFNKVIANESKNRMSLWNISTVMA  
PNLFFSRSKHSDYEELLLANTAHHIRLMLKYQKILWKVPSFLITQVRRMNEATMLKKQ  
LPSVRKLLRRKTLERETASPKTSKVLQKSPSARRMSDVPEGVIRVHAPLLSKVSMAIQLN  
NQTKAKDILAKFQYENSHGSSECIKIQNQLYEIGGNIGEHLCDPDAYILDVYRINPQAE  
WVIKQQSS

>sp|O14559|RHG33\_HUMAN Rho GTPase-activating protein 33 OS=Homo sapiens GN=ARHGAP33 PE=1  
SV=2

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HIQLLLSPDREGPSLGENELVFGVQVTCQGRSWPVLRSYDDFRSLDAHLHRCIFDRRFS  
CLPELPPPPPEGARAAQMLVPLLLQYLETLGLVDSNLNCGPVLTMELDNHGRLLSEE  
ASLNIPAVAAAHVIKRYTAQAPDELSFEVGDIVSVIDMPPTEDRSWWRGKRGFQVGFPS  
ECVELFTERPGPGLKADADGPPCGIPAPQGISSLTSAPVPRPGKLAGLLRFTMRSPSRQ  
RLRQRGILRQVFGCDLGEHLSNSGQDVPQVLRCCSEFIEAHGVVDGIYRLSGVSSNIQR  
LRHEFDSERIPELSGPAFLQDIHSVSSLCKLYFRELNPPLTYQLYKGFSEAMSVPGEEE  
RLVRVHDVLIQQLPPPHYRTLEYLLRHLARMARHSANTSMHARNLAIVWAPNLLRSMELES  
VGMGGAFAFREVRVQSVVVEFLTHVDVLFSDTFTSAGLDPAGRCLLPRPKSLAGSCPST  
RLLTLEEAQARTQGRLGTPTEPTPKAPASPAERRKGERGEKQRKPGGSSWKTFFALGRG  
PSVPRKKPLPWGGTRAPPQPSGSRPDTVTLSAKSEESLSSQASGAGLQRLHRLRRPHS  
SSDAFPVGPAPAGSCESLSSSSSESSSSSESSSSSESSAAGLGALSGSPSHRTSAWLDD  
GDELDFSPPRCLEGLRGLDFDPLTFRCSSPTPGDPAPPASPAPPAPASAFPPRVTPQATS  
PRGPTSPASPAALDISEPLAVSVPPAVLELLGAGGAPASATPTPALSPGRSLRPHLIPLL  
LRGAEAPLTDACQEMCSKLRGAQGPLGPDMEPLPPPPLSLLRPGGAPPPPKNPARLM  
ALALAERAQQVAEQSQEQECGTPPASQSPFHRSLSLEVGGELGTSGSGPPPNLAHPG  
AWVPGPPPYLPRQQSDGSLRSRPMGTSSRRGLRGPAQVSAQLRAGGGGRDAPEAAQSP  
CSVPSQVPTPGFFSPAPRECLPPFLGVKPGLYPLGPPSFQSSPAPVWRSSLGPPAPLD  
RGENLYYEIGASEGSPYSGPTRSWSPFRSMPPDRLNASYMLGQSPPLHRSPDFLLSYPP  
APSCFPDHLGYSAPQHARRTPPEPLYVNLALGPRGSPASSSSSPAHPRSRSDPG  
PPVPRLPQKQRAPWGPRTPHRVGPWGPPEPLLLYRAAPPAYGRGGELHRGSLYRNGGQR  
GEGAGPPPPYPTPSWSLHSEGQTRSYC

>sp|Q9HBH0|RHOF\_HUMAN Rho-related GTP-binding protein RhoF OS=Homo sapiens GN=RHOF PE=1  
SV=1

MDAPGALAQTAAPGGRKELKIVIVGDGGCGKTSLLMVYSQGSFPEHYAPSVFEKYTASV  
TVGSKEVTNLNYDTAGQEDYDRLRPLSYQNTHLVLCYVMNPTSNDVLIKWFPEVTHF  
CRGIPMVLIGCKTDLRKDKEQLRKLRAAQLEPITYMQGLSACEQIRAALYLECSAKFREN  
VEDVFREAAKVALSALKKAQRQKKRRLCLL

>sp|P17081|RHOQ\_HUMAN Rho-related GTP-binding protein RhoQ OS=Homo sapiens GN=RHOQ PE=1  
SV=2

MAHGPALMLKCVVVGDAVGKTCLLMSYANDAFPEEYVPTVFDHYAVSVTVGKQYLLG  
LYDTAGQEDYDRLRPLSYPMTDVFLICFSVVPASFNQVKEEWPELKEYAPNVPFLIG

TQIDLRDDPKTLARLNDMKEKPICVEQGQKLAKKEIGACCYVECSALTQKGLKTVFDEAII  
AILTPKKHTVKKRIGSRCINCCLIT

>sp|Q9UFD9|RIM3A\_HUMAN RIMS-binding protein 3A OS=Homo sapiens GN=RIMBP3 PE=1 SV=4

MAKDSPSPLGASPKKPGCSSPAAAVLENQRRELEKLRAELEAERAGWRAERRRFAARERQ  
LREEAERERRQLADRLRSKWEAQRSRELRLQEEMQREREAEIRQLLRWKEAEQRQLQQL  
LHRERDGVVRQARELQRQLAEELVNRGHCSRPGASEVSAAQCRCRLQEVLAQLRWQTDGE  
QAARIRYLQAALVERQLFLKYILAHFRGHPALSGSPDPQAVHSLEEPLPQTSSGSCHAP  
KPACQLGSLDSLAEVGVRSRSLGLVSSACSSSPDGLLSTHASSLDCFAPACSRSLDSTR  
SLPKASKSEERPSPDSTPGSRRLSPPPSPPLPPPPPSAHRKLSNPRGGEGSESQPCFV  
LTPSPPLGHHELIKLNWLLAKALWVLARRCYTLQAENKQLRRAGCPYQADEKVKRLKVK  
RAELTGLARRLADRARKLQETNLRAVSAPIPGESCAGLELCQVFARQRARDLSEQASAPL  
AKDKQIEELRQECHLLQARVASGPCSDLHTGRGGPCTQWLNVRDLRLQRESQREVLRLQ  
RQLMLQQGNGGAWPEAGGQSATCEEVRRQMLALERELDQRRRECQELGAQAAPARRRGEE  
AETQLQAALLKNAWLAENGRLQAKTDWVRKVEAENSEVRGHLGRACQERDASGLIAEQL  
LQQAARGQDRQQQLRDPQKALCDLHPSWKEIQALQCRPGHPPEQPWETSQMPESQVKGS  
RRPKFHARPEDYAVSQPNRDIQEKREASLEESPVALGESASVPQVSETVPASQPLSKKTS  
SQSNSSEGSMTATVPSSPTLDRDTASEVDDLEPDSVSLALEMGGSAAPAAPKLIKIFMAQ  
YNYNPFEGPNHPEGELPLTAGDYIYIFGDMDEDFYEGELEDRRGLVPSNFVEQIPDS  
YIPGCLPAKSPDLGPSQLPAGQDEALEEDSLLSGKAQGVVDRGLCMVRVGSKTEVATEI  
LDTKTEACQLGLLQSMGKQGLSRPLLGTGKGLRMAPMQLHLQNVTTATSANITWVYSSHRH  
PHVVYLDREHALTPAGVSCYTFQGLCPGTHYRAREVRLPRDLLQVYWGTMSTVTFTD  
LLAGPPYPPLDVLVERHASPGLVVSFLPVTIDSAGSSNGVQVTGYAVYADGLKVCEVAD  
ATAGSTLLEFSQLQVPLTWQKVSVRTMSLCGESLDSVPAQIPEDFFMCHRWPEPPFSYT  
CGDPSTYRVTFPVCPQKLSLAPPSAKASPHNPGSCGEPQAKFLEAFFEPPRRQSPVSNL  
GSEGECPSSGAGSQAQELAEAWEGCRKDLLFQKSPQNRPPSVSDQPGKEKENCQHMGT  
KSPAPGFIHLRTECGPRKEPCQEKAALERVLRQKQDAQGFTPPQLGASQQYASDFHNVLK  
EEQEALCLDLWGTERREERREPEPHSRQGGALGVKRGCLHEPSSALCPAPSAKVIKMPR  
GGPQQLGTGANTPARVFVALSDYNPLVMSANLKAAEEELVFQKRQLLRVWGSQDTHDFYL  
SECNRQVGNIPGRVLAEMEVTGEQTDRRWRSPAQGNLPSVAHLEDFQGLTIPQSSSLVLQ  
GNSKRLPLWTPKIMIAALDYPGDGQMGQGKGRLLALRAGDVVMVYGPMDQGFYYGELG  
GHRGLVPAHLLDHMSLHGH

>sp|Q6XE24|RBMS3\_HUMAN RNA-binding motif, single-stranded-interacting protein 3 OS=Homo sapiens GN=RBMS3 PE=1 SV=1

MGKRLDQPMYPQYTYYPHYLQTKQSYAPAPHPMAPPSPSTNSSNNSSNNSSGEQLSK  
TNLYIRGLPPGTTDQDLIKLCQPYGKIVSTKAILDKNTNQCKGYGFVDFDSPAQAQKAVA  
SLKANGVQAQMAKQEQDPTNLYISNLPISMDEQELENMLKPFQGHVISTRILRDANGVSR  
GVGFARMESTEKCEVVIQHFNGKYLKTPPGIPAPSEPLCKFADGGQKKRQNSKYTQNG  
RPWPREGAGMALTYDPTAAIQNGFYSSPYSIATNRMIPQTSITPFIAASPVSTYQVQST  
SWMPPHPYVMQPTGAVITPTMDHPMSMQPANMMGLTQQMNHLSLGTGTIQQSDRIMIL  
HQLLCQYMTAAAPMQGTIYIPQYTPVPPTAVSIEGVVADTSPQTVAPSSQDTSGQQQIAV  
DTSNEHAPAYSQQSKP

>sp|P38159|RBMX\_HUMAN RNA-binding motif protein, X chromosome OS=Homo sapiens GN=RBMX PE=1 SV=3

MVEADRPGLFVIGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPA

DAKDAARDMNGKSLDGKAIKVEQATKPSFESGRRGPPPPPSRGPPRGLRGGRGSGGTR  
GPPSRGGHMDGGYSMNFMSSSRGPLPVKRGPPPSGGPPPKRSAPSGPVRSSSGMGR  
APVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDYPSSRDTRDYAPPPRD  
YTYRDYGHSSSRDDYPSRGYSRDRDGYGRDRDYSDHPSGGSYRDSYESYGNSRSAPPTRGP  
PPSYGGSSRYDDYSSSRDYGGSRDYSYSSSRDLYSSGRDRVGRQERGLPPSMERGYPPP  
RDSYSSSSRGAPRGGGRGSRSDRGGGRSRY

>sp|Q9UBG7|RBPJL\_HUMAN Recombining binding protein suppressor of hairless-like protein  
OS=Homo sapiens GN=RBPJL PE=2 SV=3

MDPAGAADPSVPPNPLTHLSLQDRSEMQLQSEADRRSLPGTWTRSSPEHTTILRGGVRR  
LQQQCEQTVRILHAKVAQKSYGNEKRFFCPPCVYLSGPGWRVKPGQDQAHQAGETGPTV  
CGYMG LDSASGSATETQKLNFEQQPSREFGCAKTLYISDADKRKHFRLLVRLVLRGGRE  
LGTFSRLIKVISKPSQKKQSLKNTDLCISSGSKVSLFNRLRSQTVSTRYLSVEDGAFVA  
SARQWAAFTLHLADGHSAGQDFPPREGYVRYGSLVQLVCTVTGITLPPMIIRKVAQCAL  
LDVDEPISQLHKCAFQFPGSPGGGGTYLCLATEKVVFQASPCPKEANRALLNDSSCW  
T IIGTESVEFSFSTSLACTLEPVPVPLISTLELSGGGDVATLELHGENFHAGLKVWFGDV  
EAETMYRSPRSLVCVVPDVAAFCDWRWLRAPITIPMSLVRADGLFYPSAFSFTYTPEYS  
VRPGHPGVPEPATDADALLESIHQEFTRTNFHLFIQT

>sp|Q6ZRY4|RBPS2\_HUMAN RNA-binding protein with multiple splicing 2 OS=Homo sapiens  
GN=RBPS2 PE=1 SV=1

MSNLKPDGEHGGSTGTGSGAGSGGALEEEVRTL FVSGLPVDIKPRELYLLFRPFKGYEGS  
LIKLTARQPVGVIFDSRAGAEAAKNALNGIRFDPENPQTLRLEFAKANTKMAKSKLMAT  
PNPSNVHPALGAHFIA RDPYDLMGAA LIPASPEAWAPYPLYTTELTPAISHAAFTYPTAT  
AAAAALHAQVRWYPSSDTTQQGWKYRQFC

>sp|A6NDE4|RBY1B\_HUMAN RNA-binding motif protein, Y chromosome, family 1 member B OS=Homo  
sapiens GN=RBY1B PE=2 SV=2

MVEADHPGKFLIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFATITENPAD  
AKNAAKDMNGKSLHGKAIKVEQAKKPSFQSGGRRRPPASSRNRSPGSLRSARGSRGGTR  
GWLPSQEGHLDDGGYTPDLKMSYSRGLIPVKGPPSSRSGPPPKSAPS AVARSNSWMGS  
QGPMSQRRENYGVPPRRATISSWRNDRMSTRHDGYATNDGNHPSCQETRDYAPPSRGYAY  
RDNGHSNRDEHSSRGYRNHRSSRETRDYAPPSRGHAYRDYGHSSRDESYSRGYRNRRSSR  
ETREYAPPSRGHGYRDYGHSSRHESYSRGYRNHPSSRETRDYAPPHRDYAYRDYGHSSWD  
EHSSRGYSYHDGYGEALGRDHSEHLGSSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA  
YSNTRDRYGRSWESYSSCGDFHYCDREHVC RKDQRNPPSLGRVLPDPREAYGSSSYVASI  
VDGGERSEKGDSSRY

>sp|Q9UKA8|RCAN3\_HUMAN Calcipressin-3 OS=Homo sapiens GN=RCAN3 PE=1 SV=1

MLRDTMKSWNDSQSDLCSTDQEEEEEMIFGENEDDLDEMDLSDLPTSLFACSVHEAVFE  
AREQKERFEALFTIYDDQVTFQLFKSFRRVRINFSKPEAAARARIELHETDFNGQKLKLY  
FAQVQMSGEVRDKSYLLPPQPVKQFLISPPASPPVGWKQSEDAMPVINYDLLCAVSKLGP  
GEKYELHAGTESTPSVVHVCESETEEEEEETKNPKQKIAQTRRPDPPTAALNEPQTFDCA  
L

>sp|P54725|RD23A\_HUMAN UV excision repair protein RAD23 homolog A OS=Homo sapiens  
GN=RAD23A PE=1 SV=1

MAVTITLKTLLQQTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVP  
IRDYRIDEKNFVVVMVTKTKAGQGSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAARE

DKSPSEESAPTTSPESVSGSVPSSGSSGREEDAASLTGSEYETMLTEIMSMGYERERV  
VAALRASYNPHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATEAAGENPLEFLRDQPQ  
FQNMQRVVIQQNPALLPALLQQLGQENPQLLQQISRHQEQFIQMLNEPPGELADISDVEGE  
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNF  
DDE

>sp|P54727|RD23B\_HUMAN UV excision repair protein RAD23 homolog B OS=Homo sapiens  
GN=RAD23B PE=1 SV=1

MQVTLKTLQQQTFKIDIDPEETVKALKEKIESEKGDAPVAGQKLIYAGKILNDDTALK  
EYKIDEKNFVVVMVTKPAVSTPAPATTQQSAPASTTAVTSTTTTVAQAPTPVPALAPT  
STPASITPASATASSEPPAPASAAKQEKAEPKPAETPVATSPTATDSTSGDSSRSNLFEDA  
TSALVTGQSYENMVTEIMSMGYEREQVIAALRASFNPDRAVEYLLMGIPGDRESQAVVD  
PPQAASTGAPQSSAVAAAAATTTATTTTSSGGHLEFLRNQPQFQQMRQIIQQNPSSLP  
ALLQQIGRENQQLLQQISQHQEHFIQMLNEPVQEAGGQGGGGGGGGGIAEAGSGHMNYI  
QVTPQEKEAIERLKALGFPEGLVIQAYFACEKNENLAANFLLQQNFDED

>sp|P61576|RECO4\_HUMAN Endogenous retrovirus group K member 104 Rec protein OS=Homo  
sapiens GN=HERV-K104 PE=1 SV=1

MNPSEMQRKAPRRRRHCNRAPLTHKMNMVTSEEEMKLPSTKKAEPPTWAQLKKLTQLA  
TKCLENTKVTQTPESMLLAALMIVSMVSAGVTNSSKETATIENG

>sp|P61572|REC19\_HUMAN Endogenous retrovirus group K member 19 Rec protein OS=Homo sapiens  
GN=ERV-K-19 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSAGVPNSSEETATIENG

>sp|P61573|REC9\_HUMAN Endogenous retrovirus group K member 9 Rec protein OS=Homo sapiens  
GN=ERV-K-9 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSAGVPNSSEETATIENG

>sp|Q06141|REG3A\_HUMAN Regenerating islet-derived protein 3-alpha OS=Homo sapiens  
GN=REG3A PE=1 SV=1

MLPPMALPSVSWMLLSCLMLLSQVQGEPPQRELPSARIRCPKGSKAYGSHCYALFLSPKS  
WTDADLACQKRPSGNLVSVLGAEGSFVSSLVKSIGNSYSYVWIGLHDPTQGTEPNGEW  
EWSSSDVMNYFAWERNPSTISSPGHCASLSRSTAFLRWKDYCNVRLPYVCKFTD

>sp|Q9BYZ8|REG4\_HUMAN Regenerating islet-derived protein 4 OS=Homo sapiens GN=REG4 PE=1  
SV=1

MASRSMRLLLLLSCLAKTGVLGDIIMRPSCAPGWFYHKSNCYGYFRKLRNWSDAELECQS  
YNGAHLASILSLKEASTIAEYISGYQRSQPIWIGLHDPQKRQQWQWIDGAMYLYRSWSG  
KSMGGNKHCAEMSSNNFLTWSSNECNKRQHFLCKYRP

>sp|Q01201|RELB\_HUMAN Transcription factor RelB OS=Homo sapiens GN=RELB PE=1 SV=2

MLRSGPASGPSVPTGRAMPSRRVARPPAAPELGALGSPDLSSLSLAVSRSTDELEIIDEY  
IKENGFGLDGGQPGPEGPLRLVSRGAASLSTVTLGPVAPPATPPPWGCPLGRLVSPAPG  
PGPQPHLVITEQPKQRGMFRYECEGRSAGSILGESSTEASKTLPAIELRDCGGLREVEV  
TACLVWKDWPHRVHPHSLVGKDCTDGICRVRLRPHVSPRHSFNNLGIQCVRKKEIEAAIE  
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SELRICRINKESGPTGGEELYLLCDKVQKEDISVVFSRASWEGRADFSQADVHRQIAIV  
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>sp|P78509|RELN\_HUMAN Reelin OS=Homo sapiens GN=RELN PE=1 SV=3

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>sp|Q04864|REL\_HUMAN Proto-oncogene c-Rel OS=Homo sapiens GN=REL PE=1 SV=1

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>sp|Q9H1J1|REN3A\_HUMAN Regulator of nonsense transcripts 3A OS=Homo sapiens GN=UPF3A PE=1 SV=1

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>sp|P40937|RFC5\_HUMAN Replication factor C subunit 5 OS=Homo sapiens GN=RFC5 PE=1 SV=1

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LMVPRLEHVVEEEKVDISEDGMKALVTLSSGDMRRALNILQSTNMAFGKVTEETVYTCTG  
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>sp|Q8TAC1|RFESD\_HUMAN Rieske domain-containing protein OS=Homo sapiens GN=RFESD PE=1  
SV=1

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>sp|O14593|RFXK\_HUMAN DNA-binding protein RFXANK OS=Homo sapiens GN=RFXANK PE=1 SV=2

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VDINIYDWNGGTPLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQ  
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>sp|Q5HYW3|RGAG4\_HUMAN Retrotransposon gag domain-containing protein 4 OS=Homo sapiens  
GN=RGAG4 PE=2 SV=1

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>sp|Q15493|RGN\_HUMAN Regucalcin OS=Homo sapiens GN=RGN PE=1 SV=1

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DLQTGQISNRRSVYKLEKEEQIPDGMCIDAEGLWVACYNGGRVIRLDPVTGKRLQTVKL  
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>sp|Q6GYQ0|RGPA1\_HUMAN Ral GTPase-activating protein subunit alpha-1 OS=Homo sapiens  
GN=RALGAPA1 PE=1 SV=1

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>sp|Q7Z3J3|RGPD4\_HUMAN RanBP2-like and GRIP domain-containing protein 4 OS=Homo sapiens  
GN=RGPD4 PE=2 SV=3

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>sp|Q99666|RGPD5\_HUMAN RANBP2-like and GRIP domain-containing protein 5/6 OS=Homo sapiens  
GN=RGPD5 PE=1 SV=3

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>sp|P47804|RGR\_HUMAN RPE-retinal G protein-coupled receptor OS=Homo sapiens GN=RGR PE=1 SV=1

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SISPKLQMPALIAKMVPTINAINYALGNEMVCRGIWQCLSPQKREKDRTK

>sp|O15492|RGS16\_HUMAN Regulator of G-protein signaling 16 OS=Homo sapiens GN=RGS16 PE=1 SV=2

MCRTLAAFPPTCLERAKEFKTRLGIFLHKSELGCDTGSTGKFEWGSKHSKENRNFS EDVL  
GWRESFDLLLSSKNGVA AFHAFKTEFSEENLEFWLACEEFKKIRSATKLASRAHQIFEE  
FICSEAPKEVNIDHETHELTRMNLQTATATCFDAAQGKTRTLM EKDSYPRFLKSPAYRDL  
AAQASAASATLSSCSLDEPSHT

>sp|Q9NS28|RGS18\_HUMAN Regulator of G-protein signaling 18 OS=Homo sapiens GN=RGS18 PE=1 SV=1

METTLFFSQINMCESKEKTFFKLIHSGSKEETSKEAKIRAKEKRNRLSLLVQKPEFHED  
TRSSRSGLHAKETRVSP EEA VKWGESFDKLLSHRDGLEAFTRFLKTEFSEENIEFWIACE  
DFKKS KGPQQIHLKAKAIYEKFIQTDAPKEVNLD FHTKEVITNSITQPTLHSFDAAQSRV  
YQLMEQDSYTRFLKSDIYLDLMEGRPQRPTNLR RRSRSTCFNEFQDVQSDVAIWL

>sp|P49795|RGS19\_HUMAN Regulator of G-protein signaling 19 OS=Homo sapiens GN=RGS19 PE=1 SV=1

MPTPHEAEKQITGP EEA DRPPSMSSHDTASPAAPSRNPCCLCWCCCCSCSWNQERRRAWQ  
ASRESKLQPLPSCEVCATPSPEEVQSWAQSFDKLMHSPAGRSVFRAFLRTEYSEENMLFW  
LACEELKAEANQHVVDEKARLIYEDYVSILSPKEVSLDSRVREGINKKMQEPSAHTFDDA  
QLQIYTLMHRDSYPRFLSSPTYRALLLQGPSQSSEA

>sp|Q8IY67|RAVR1\_HUMAN Ribonucleoprotein PTB-binding 1 OS=Homo sapiens GN=RAVR1 PE=1 SV=1

MAADVSVTHRPPLSPKSGAEVEAGDAAERRAPEEELPPLDPEEIRKRLEHTERQFRNR RK  
ILIRGLPGDVTNQEVHDL LSYELKYCFVDKYGTAFVTLNGEQAEAAINAFHQSR LRE  
RELSVQLQPTDALLCVANLP PSLTQQQFEELVRPFGSLERCFLVYSERTGQSKGYGFAEY  
MKKDS AARAKSDLLGKPLGPRTLYVHWDAGQLTPALLHSRCLCVDRLPPGFNDVDALCR  
ALSAVHSPTFCQLACGQDGLKGFVLEYETAEMAEAAQQADGLSLGGSHLRVSF CAPG  
PPGRSMLAALIAAQATALNRGKGLPEPNILQLLNNLGPSASLQLLLNPLLHGSAGGKQG  
LLGAPPAMPLNGPALSTALLQ LALQTGGQKKPGILGDSPLGALQPGAQPANPLL GELPA  
GGGLPELP PRRGKPPLLPSVLGPAGGDREALGLGPPAAQLTPPPAPVGLRGSGLRGPL  
SHFYSGSPTS YFTSGLQAGLKQSHLSKAIGSSPLGSGEGLLGLSPGPNGHS HLLKVRAGG  
GDMQGW EAPAPQRPLTRPALPSVSRPHWAARNAALPTCCPRPSPAQKAAMWASTPRASAA  
TTRTPT

>sp|Q96IS3|RAX2\_HUMAN Retina and anterior neural fold homeobox protein 2 OS=Homo sapiens GN=RAX2 PE=1 SV=1

MFLSPGEGPATEGGGLGP GEEAPKKKHRRNRRTFTTYQLHQLERAFAESHYPDVYSREEL  
AAKVHLPEVRVQVWFQNRRAKWR RQERLESGSGAVAAPRLPEAPALPFARPPAMSLPLEP  
WLGPGPPAVPGLPRLLGPGPGLQASFGPHAFAPTFADGFALEEASLRLLAKEHAQALDRA  
WPPA

>sp|P62491|RB11A\_HUMAN Ras-related protein Rab-11A OS=Homo sapiens GN=RAB11A PE=1 SV=3  
MGTRDDEYDYLFKVVLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTI  
KAQIWDTAGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVIM  
LVGNKSDLRHLRAVPTDEARAFAEKNLSFIETSALDSTNVEAAFQITLTIYRIVSQKQ  
MSDRRENDMSPSNNVPIHVPPTTENKPKVQCCQNI

>sp|Q9UL26|RB22A\_HUMAN Ras-related protein Rab-22A OS=Homo sapiens GN=RAB22A PE=1 SV=2  
MALRELKVCLLGDGTGVGKSSIVWRFVEDSFDPNINPTIGASFMTKTVQYQNELHKFLIWD  
TAGQERFRALAPMYRGSAAAIIVYDITKEETFSTLKNWVKELRQHGPPIVVAIAGNKC  
DLIDVREVMERDAKDYADSIHAIFVETSAKNAININELFIEISRRIPSTDANLPSGGKGF  
KLRRQPSEPKRSCC

>sp|O00194|RB27B\_HUMAN Ras-related protein Rab-27B OS=Homo sapiens GN=RAB27B PE=1 SV=4  
MTDGDYDYLKLLALGDSGVGKTTFLYRYTDNKFNPKFITTVGIDFREKRVVYNAQGPNG  
SSGKAFKVHLQLWDTAGQERFRSLTTAFRDAMGFLMFDLTSQQSFLNVRNWMSQLQAN  
AYCENPDIVLIGNKADLPDQREVNERQARELADKYGIPYFETSAATGQNVKAVETLLDL  
IMKRMEQCVEKTQIPDTVNGGNSGNLDGKPPPEKKCIC

>sp|Q14964|RB39A\_HUMAN Ras-related protein Rab-39A OS=Homo sapiens GN=RAB39A PE=1 SV=2  
METIWIYQFRLIVIGDSTVGKSCLLHRFTQGRFPGLRSPACDPTVGVDFFSRLLEIEPGK  
RIKLQLWDTAGQERFRSITRSYRNSVGGFLVFDITNRRSFEHVKDWLEEAKMYVQPFRI  
VFLLVGHKCDLASQRQVTREEAEKLSADCGMKYIETSAKDATNVEESFTILTRDIYELIK  
KGEICIQDGWEGVKSGFVPNTVHSSEEAVKPRKEFC

>sp|Q8WXH6|RB40A\_HUMAN Ras-related protein Rab-40A OS=Homo sapiens GN=RAB40A PE=2 SV=2  
MSAPGSPDQAYDFLLKFLLVGDRDVGKSEIILESLQDGAESPYSHLGGIDYKTTTILLDG  
QRVKLKLWDTSGGGRFCTIFRSYSRGAQGVILVYDIANRWSFEGMDRWIKKIEEHAPGVP  
KILVGNRLHLAFKRQVPREQAQAYAERLGVTFEVSPLCNFNIIESFTELARIVLLRHRM  
NWLGRPSKVLSQLDCCRTIVSCTPVHLVDKLPSTLRSHLKSFSMAKGLNARMMRGLS  
YSLTSSSTHKSSLCKVEIVCPPQSPPKNCTRNSCKIS

>sp|Q7Z6E9|RBBP6\_HUMAN E3 ubiquitin-protein ligase RBBP6 OS=Homo sapiens GN=RBBP6 PE=1  
SV=1

MSCVHYKFSSKLNVDYTFDGLHISLCLDKKQIMGREKLKAADCQLITNAQTKEEYTD  
NALIPKNSSVIVRRIPIGGVKSTSKTYVISRTEPAMATTKAIDDSSASISLAQLTKTANL  
AEANASEEDKIKAMMSQSGHEYDPINYMKKPLGPPPSYTCFRCGKPGHYIKNCPTNGDK  
NFESGPRIKKSTGIPRSFMMEVKDPNMKGAMLTNTGKYAIPITDAEAYAIGKKEKPPFLP  
EEPSSSSEEDDPIPELLCLICKIMTDAVVIPCCGNSYCDCEIRTALESDEHTCPTCH  
QNDVSPDALIANKFLRQAVNNFKNETGYTKRLRKQLPPPPPIPPRPLIQRNLQPLMRS  
PISRQQDPLMIPVTSSSTHPAPSISLTSNQSSLAPPVSGNPSSAPAPVPDITATVSISV  
HSEKSDGPFRRSDNKILPAAALASEHSGTSSIAITALMEEKGYQVPVLGTPSLLGQSL  
HGQLIPTTGVRINTARPGGRPGWEHSNKLGYLVSPQQIRRGERSCYRSINRGRHHSE  
RSQRTQGPSLPATPVFVPVPPPLYPPPHLPLPPGVPPPQFSPQFPPGQPPAGYSVP  
PPGFPPAPANLSTPWSSGVQTAHSNTIPTTQAPPLSREEFYREQRRLEEEKKKSKLDE  
FTNDFAKELMEYKKIQKERRRSFSRSKSPYSGSSYSRSTYSKSRSGSTRSRYSRSFS  
RSHRSYSRSPPYPRRGKSRNYRSRSHGYHRSRSPPYRRYHSRSPQAFRGQS  
PNKRNPVQGETEREYFNRYREVPPPYDMKAYYGRSVDFRDPFEKERYREWERKYREWYK  
YYKGAAAGAPRPSANRENFSPERFLPLNIRNSPFTGRREDYVGGQSHRSRNIGSNYPE  
KLSARDGHNQDNTKSKEKESENAPGDGKGNKHKHRRKRRKGESEGFNLPELLETSRKS

REPTGVEENKTDLSFLPSRDDATPVRDEPMDAESITFKSVSEKDKRERDKPKAKGDKTK  
RKNDGSAVSKKENIVKPAKGPQEKVDGERERSRSEPPIKKAKEETPKTDNTKSSSSSQK  
DEKITGTPRKAHKSASKEHQETKPVKEEKVKKDYSKDVKSEKLTTKEEKAKKPNEKNKPL  
DNKGKKRKRKTEEGVDKDFESSMKISKLEVTEIVKPSPKRKMEDTEKMDRTPEKDKI  
SLSAPAKKIKLNRETGKKIGSTENISNTKEPSEKLESTSSKVKQEKVKGKVRKVGTGTEG  
SSSTLVDTSTSSSTGGSPVRKSEEKTDTKRTVIKTMEEYNNDNTAPAEDV IIMIQVPQSK  
WDKDDFESEEDVKSTQPISSVGKPAVKNVSTKPSNIVKYPEKESEPESEKIQKFTKDV  
SHEIIQHEVKSSKNSASSEKGTKDRDYSVLEKENPEKRNSTQPEKESNLDRLNEQGNF  
KSLSQSSKEARTSDKHDSTRASSNKDFTPNRDKKTDYDTREYSSSKRRDEKNELTRRKDS  
PSRNKDSASGQKNKPREERDLPPKGTGDSKKSNSSPSRDRKPHDHKATYDTKRPNEETKS  
VDKNPCKDREKHVLEARNNKESGKLLYILNPPETQVEKEQITGQIDKSTVKPKPQLSH  
SSRLSSDLTRETDEAAFEFDYNESDSSESNVSVKEEESGKISKDLKDKIVEKAKESLDTA  
AVVQVGISRNQSHSSPSVSPSRSHSPSGSQTRSHSSASSAESQDSKKKKKKKEKKKKHK  
HKKKKKKKHAGTEVELEKSQKHKKKKKSKKNKDKEKEKEKDDQKVKSVTV

>sp|B7ZAP0|RBG10\_HUMAN Rab GTPase-activating protein 1-like, isoform 10 OS=Homo sapiens  
GN=RABGAP1L PE=1 SV=1

MIENSSWSMTFEERENRRLQEASMRLEQENDDLAHELVTSKIALRNDLDQAEDKADVLNK  
ELLLTKQRLVETEEERKQEEETAQLKEVFRKQLEKAEYEIKKTTAIIAEYKQICSQLST  
RLEKQQAASKEELEVVKGKMMACKHCSDIFSKEGALKLAATGREDQGIETDDEKDSLKKQ  
LREMELELAQTKLQLVEAKCKIQELEHQRGALMNEIQAAKNSWFSKTLNSIKTATGTQPL  
QPAPVTQPPKEST

>sp|Q5R372|RBG1L\_HUMAN Rab GTPase-activating protein 1-like OS=Homo sapiens GN=RABGAP1L  
PE=1 SV=1

MEVRASLQKVGSSDSVATMNSEEFVLVPQYADDNSTKHEEKPLKIVSNGDEQLEKAME  
EILRDSEKRPSSLLVDCQSSSEISDHSFGDIPASQTNKPSLQLILDPSNTEISTPRPSSP  
GGLPEEDSVLFNKLYLGCМКVSSPRNEVEALRAMATMKSSSQYFPVTLVYPNVPEGSV  
RIIDQSSNVEIASFPYIKVLFCAARGHGTTESNCFAFTESSHGSEEFQIHVFSCEIKEAV  
SRILYSFCTAFKRSSRQVSDVKDSVIPTPDSDVFTFSVSLEVKEDDGKGNFSPVPKDRDK  
FYFKLKQGIEKKVITVQQLSNKELAIERCFGMLLSPGRNVKNSDMHLLDMESMGKSYDG  
RAYVITGMWNPANPVFLALNEETPKDKQVYMTVAVDMVVTEVVEPVRFLETVVRVYPAN  
ERFWYFSRKTFTETFFMRLKQSEGKHTNAGDAIYEVVSLQRESKEEPVTPTSGGPMMS  
PQDDEAEESDNELSSGTGDVSKDCPEKILYSWGELLGKWSNLGARPKGLSTLVKSGVP  
EALRAEVWQLLAGCHDNQAMLDYRILITKDSAQESVITRDIHRTFPAHDYFKDTGGDGQ  
ESLYKICKAYSVYDEDIGYCQGSFLAAVLLHMPPEQAFCVLVKIMYDYGLRDLYRNNF  
EDLHCKFYQLERLMQEQLPDLHSHFSDLNLEAHMYASQWFLTLFTAKFPLCMVFHIIIDLL  
LCEGLNIIHFVALALLKTSKEDLLQADFEGALKFFRVQLPKRYRAEENARRLMEQACNIK  
VPTKKLKKYEKEYQTMRESQLQQEDPMDRYKFFVYL

>sp|Q8IUH3|RBM45\_HUMAN RNA-binding protein 45 OS=Homo sapiens GN=RBM45 PE=1 SV=1

MDEAGSSASGGFRPGVDSLDEPPNSRIFLVISKYTPESVLRERFSPFGDIQDIWVVRDK  
HTKESKGIAFVKFARSSQACRAMEEMHGQCLGPNDTKPIKVFIAQSRSSGSHRDVEDEEL  
TRIFVMIPKSYTEEDLREKFKVYGDI EYCSIIKNKVTGESKGLGYVRYLKPSQAAQAIEN  
CDRSFRAILAEPKNKASESSEQDYYSNMRQEALGHEPRVNMFPFVGEQQSEFSSFDKNDS  
RGQEAISKRLSVSVRPFTEEQLFSIFDIVPGLEYCEVQRDPYSNYHGQVGVYFNVASAI  
YAKYKLHGFQYPPGNRIGVSFIDDGSNATDLLRKMATQMVAAQLASMVWNNPSQQQFMQF

GGSSGSQLPQIQTDVVLPSCKKKAPAETPVKERLFIVFNPHPLPLDVLEDIFCRFGNLIE  
VYLVSGKNVGYAKYADRISANDAIATLHGKILNGVRLKVMLADSPREESNKRQRTY

>sp|Q9Y580|RBM7\_HUMAN RNA-binding protein 7 OS=Homo sapiens GN=RBM7 PE=1 SV=1

MGAAAAEADRTLFGVNGLETKVTEELLFELFHQAGPVIKVKIPKDKDGKPKQFAFVNFKHE  
VSVPYAMNLLNGIKLYGRPIKIQFRSGSSHAPQDVSLSYQHHVGNSSPTSTSPSRYERT  
MDNMTSSAQIIQRSFSSPENFQRQAVMNSALRQMSYGGKFGSSPLDQSGFSPSVQSHSHS  
FNQSSSSQWRQGTSPSSQRKVRMNSYPYLADRHSREQRYTDHGSDDHHRGKRDDFFYEDR  
NHDDWSHDYDNRRDSSRDGKWRSSRH

>sp|Q9H1K0|RBNS5\_HUMAN Rabenosyn-5 OS=Homo sapiens GN=RBNS PE=1 SV=2

MASLDDPGEVREGFLCPLCLKDLQSFYQLHSHYEEHSGEDRDVKGQIKSLVQKAKKAKD  
RLKREGDDRAESGTQGYESFSYGGVDPYMWEPQELGAVRSHLSDFKKHRAARIDHYVVE  
VNKLIIRLEKLTAFDRNTESAKIRAIIEKSVVPWVNDQDVPFCPCGKNKFSIRNRHHCR  
LCGSIMCKKCMELISLPLANKLTSASKESLSTHTSPSQSPNSVHGSRSGSISSMSSVSSV  
LDEKDDDRIRCCTHCKDTLLKREQQIDEKEHTPDIVKLYEKLRLCMEKVDQKAPEYIRMA  
ASLNAGETTSLEHASDLRVEVQKVYELIDALSKKILTLGLNQDPPPHPSNLRQLRMIRY  
SATLQVQEKLLGLMSLPTKEQFEELKKRKEEMERKRAVERQAALESQRRLEERQSGLAS  
RAANGEVASLRRGPAPLRKAEGWLPLSGGQGQSESDPPLLQQIHNITSFIRQAKAAGRMD  
EVRTLQENLRQLQDEYDQQQTEKAIELSRRQAEEDLQREQLQMLRERELEREREQFRVA  
SLHTRTRSLDFREIGPFQLEPSREPRTHLAYALDLGSSPVPSSSTAPKTPSLSTQPTRVW  
SGPPAVGQERLPQSSMPQQHEGPSLNPFDEEDLSSPMEEATTGPPAAGVSLDPSARILKE  
YNPFEEEDDEEEEAVAGNPFIQPDSAPNPFSEDEHPQQLSSPLVPGNPFEEPTCINPF  
EMSDSDSGPEAEPIEEELLQQIDNIKAYIFDAKQCGRLDEVEVLTENLRELKHTLAKQK  
GGTD

>sp|Q15311|RBP1\_HUMAN RalA-binding protein 1 OS=Homo sapiens GN=RALBP1 PE=1 SV=3

MTECFLPPTSSPSEHRRVEHSGGLTRTPSSEEISPTKFPGLYRTGEPSPPHDILHEPPDV  
VSDDEKDHGKKKGKFKKKEKRTGYAAAFQEDSSGDEAESPSKMKRSKGIHVFKKPSFSKK  
KEKDFKIKEKPKEEKHKEEKHKEEKHKEKSKDLTAADVVKQWKEKKKKKKPIQEPEVPQ  
IDVPNLKPIFGIPLADAVERTMMYDGIRLPAVFRECIDYVEKYGMKCEGIYRVSGIKSKV  
DELKAAVDREESTNLEDYEPNTVASLLKQYLRDLPENLLTKELMPRFEEACGRTTETEKV  
QEFQRLKELPECNYLLISWLIVHMDHVIKAELETKMNIQNISIVLSPTVQISNRVLYVF  
FTHVQELFGNVVLKQVMKPLRWSNMATMPTLPETQAGIKEEIRRQEFLNCLHRDLQGGI  
KDLSKEERLWEVQRILTALKRKLREAKRQECETKIAQEIASLSKEDVSKEEMNENEVIN  
ILLAQENEILTEQEELLAMEQFLRRQIASEKEEIERLRAEIAEIQSRQQHGRSETEEYSS  
ESESESEDEEELQIILEDLQRQNEELEIKNNHLNQAIHEEREAIIELRVQLRLQLMQRAK  
AEQQAQEDDEPEWRGGAVQPPRDGVLEPKAAKEQPKAGKEPAKPSPSRDRKETS

>sp|P61574|RE113\_HUMAN Endogenous retrovirus group K member 113 Rec protein OS=Homo sapiens GN=HERVK\_113 PE=1 SV=1

MNPSEMQRKAPRRRRHRNRAPLTHKMNMVTSEEQMKLPSTKKAEPPTWAQLKKLTQLA  
TKYLENTKVTQTPESMLLAALMIVSMVSYGVPNSSEETATIENG

>sp|Q9H902|REEP1\_HUMAN Receptor expression-enhancing protein 1 OS=Homo sapiens GN=REEP1 PE=1 SV=1

MVSWIISRLVVLIFGTLYPAYYSYKAVKSKDIKEYVKWMMYWIIFALFTTAETFTDIFLC  
WFPFYELKIAFVAWLLSPYTKGSSLLYRKVFVHPTLSSKEKEIDDCLVQAKDRSYDALVH  
FGKRGLNVAATAAVMAASKGQALSERLSFSMQDLTTIRGDGAPAPSGPPPPGSGRASG

KHGQPKMSRSASESASSSGTA

>sp|P00797|RENI\_HUMAN Renin OS=Homo sapiens GN=REN PE=1 SV=1  
MDGWRMPRWGLLLLLWGSCFTGLPTDTTTFKRIFLKRMP SIRESLKERGVDMARLGPEW  
SQPMKRLTLGNTTSSVILTNYMDTQYYGEIGIGTPPQTFKVVFDTGSSNVWVPSSKCSRL  
YTACVYHKLFDASDSSSYKHNGTELTRYSTGTVSGFLSQDIITVGGITVTQMFGEVTEM  
PALPFMLAEFDGVGMGFIEQAIGRVTPIFDNIISQGVLKEDVFSFYNNRDSSENSQSLGG  
QIVLGSGDPQHYEGNFHYINLIKTVWQIQMKGVSVGSSTLLCEDGCLALVDTGASYISG  
STSSIEKLMEALGAKKRLFDYVVKNEGPTLPDISFHLGGKEYTLTSADYVFQESYSSKK  
LCTLAIHAMDIPPTGPTWALGATFIRKFYTEFDRNRNRIGFALAR

>sp|Q6WKZ4|RFIP1\_HUMAN Rab11 family-interacting protein 1 OS=Homo sapiens GN=RAB11FIP1  
PE=1 SV=3

MSLMVSAGRGLGAVWSPTHVQVTVLQARGLRAKGGTSDAYAVIQVGKEYATSVSERS  
LGAPVWREEATFELPSLLSSGPAATLQLTVLHRALLGLDKFLGRAEVDLRDLHRDQGR  
RKTQWYKLSKPKGKDKERGEIEVDIQFMRNNMTASMFDSLMDKSRNPFGLKDKIKGK  
NKDSGSDTASAIIPSTTPSVSDDESVMKDKKKKSKIKTLLSKSNLQKTPLSQSMVLPT  
SKPEKVLLRPGDFQSQWDEDDNEDESSASDVMSHKRTASTDLKQLNQVNFTLPKKEGLS  
FLGGLRSKNDVLSRNSVCINGNHVYLEQPEAKGEIKDSSPSSSPSPKGRKKHLFSSTEN  
LAAGSWKEPAEGGLSSDRQLSESSTKDSLKSMTLPSYRPAPLVSGDLRENMAPANSEAT  
KEAKESKKPESRRSSLLSLMTGKKDVAKGSEGENPLTPVGREKEGMLMGVKPGEDASGPA  
EDLVRSEKDTAAVVSRRQSSSLNLFEDVQITEPEAEPEKSEPRPPISSPRAPQTRAVKP  
RLEVSPQAQPTARLPSPDTPSSLPPLPSSSGQASVPSELGHGADTQSSESPSVFSSLS  
PIAAPISTSTPIESWPLVDRGQAKSEGPPLPKAELQTESLTPVPNSGSSALGSLFKQPS  
FPANKGTEDSLMGRTRTGTEKNTSSLEESLPEQPETGRQEEELPRFPCKKQDYSPSS  
GEAQEVFALSLSDDGAVSPVGELAAGGDRDLESQAGSLVESKARDAEEVAPPLPMGAS  
VPSIDSMRKL EEMGLNLRKDKKTKKRVSFSEQLFTEEAVAGAALLVEGHSSCPQELNP  
AWSVAGNASDGEPPEPHAEDSERESVTTPGPATCGAPASPADHLLPSQEESFSEVPMS  
EASSAKDTPLFRMEGEDALVTQYQSKASDHEGLLSDPLSDLQLVSDFKSPIMADLNLSLP  
SIPEVASDDERIDQVEDDGDQVEDDGETAKSSTLDIGALSLGLVPCPERGKGPSGEADR  
LVLGEGLCDFRLQAPQASVTAPSEQTTEFGIHKPHLGKSSSLDKQLPGPSGEEEEKPMGN  
GSPSPPPGTSLDNVPVSPSPSEIFPVTHSFPSSAHSDTHHTSTAESQKKATAEGSAGRVE  
NFGKRKPLLQAWVSPSETHPVSAQPGAGTGS AKHRLHPVKPMNAMATKVANCSLGTATII  
SENLNNEVMMKKYSPSDPAFAYAQLTHDELIQLVLKQKETISKKEFQVRELDYIDNLLV  
RVMEETPNILRIPTQVGKKAGKM

>sp|POC7P2|RFL3S\_HUMAN Putative protein RFPL3S OS=Homo sapiens GN=RFPL3S PE=2 SV=1  
MQTDTSNLSARSCRFCVMSPLRTLRSSEMRRKLLAVSASKVISTVKRKTSCSASGQKPT  
PCLSSTSKAQISPDFSFFNSVSSSIKTFHEETSLFQIFIGMLCGNT

>sp|QOVAM2|RGF1B\_HUMAN Ras-GEF domain-containing family member 1B OS=Homo sapiens  
GN=RASGEF1B PE=1 SV=2

MPQTPPFSAFMDSSGYNRNLYQSAEDSCGGLYYHDNNLLSGSLEALIQHLVPNVDYYPDR  
TYIFTFLSSRLFMHPYELMAKVCHLCVEHQRLSDPDSKNQMRKIAPKILQLLTETET  
FPYDFRDERMMRNLDLAHRIASGEEQTYRKNVQMMQCLIRKLAALSQYEEVLAKISST  
STDRLTVLKTKPQSIQRDIITVCNDPYTLAQQLTTHIELERLNYIGPEEFVQAFVQKDPLD  
NDKSCYSERKKTRNLEAYVEWFNRLSYLVAEICMPVKKKHRARMIEYFIDVARECFNIG  
NFNSLMAIISGMNMPVSRLLKKTWAKVKTAKFDILEHQMDPSSNFYNYRTALRGAAQRSL



TAHSSREKIVIPFFSLLIKDIYFLNEGCANRLPNGHVNFEEKFWELAKQVSEFMTWKQVEC  
PFERDRKILQYLLTVPVFS DALYLASYESEG PENHIEKDRWKS LRSSLLGRV

>sp|Q92546|RGP1\_HUMAN RAB6A-GEF complex partner protein 2 OS=Homo sapiens GN=RGP1 PE=1  
SV=1

MIEVVAELSRGPVFLAGEALECVVTVTNPLPPTATSASSEALAWASAIHCQFHASESRV  
ALPPDSSQPDVQPDSTVFLPHRGERGQCILSTPPKILFCDLRDPGESKSYSYSEVLP  
IEGPPSFRGQSVKYVYKLTIGCQRVNSPITLLRVPLRVLVLTGLQDVRFQDEAVAPSSP  
FLEEDEGGKKDSWLAELAGERLMAATSCRS LHLYNISDGRGKVGTFGIFKSVYRLGEDVV  
GTLNLGEGTVACLQFSVSLQTEERVQPEYQRRRGAGGVPSVSHVTHARHQESCLHTTRTS  
FSLPIPLSSTPGFCTAIVSLKWRLHFEFVTSREPGLVLLPPVEQPEPTTWGPEQVPVDT  
FSWDLPIKVLPTSPTLASAAPGPSTSTITI

>sp|A6NKT7|RGPD3\_HUMAN RanBP2-like and GRIP domain-containing protein 3 OS=Homo sapiens  
GN=RGPD3 PE=3 SV=2

MSCSKAYGERYVASVQGSAPSPRKSTRGFYFAKLYYEAKKEYDLAKKYICTYINVREMDP  
RAHRFLGLLYELEENTEKAVECYRRSVELNPTQKDLVLKIAELLCKNDVTDGRAEYWVER  
AAKLFPGSPAIIYKLKEQLLDCEGEDGWNKLFDLIQSELYVRPDDVHVNI RLVELYRSTKR  
LKDAVARCHEAERNIALRSSLEWNSCVVQTLKEYLESLQCLES DKSDWRATNTDLLAYA  
NLMLLTSTRDVQESRELLESFDSALQSAKSSLGGNDELSATFLEMKGHFYMHAGSLLLK  
MGQHGNVQWRALSELAALCYLIAFQVPRPKIKLIKGEAGQNLEMMACDRLSQSGHMLL  
NLSRGKQDFLKVVVETFANKSGQSALYDALFSSQSPKDTSF LGSDDIGNIDVQEPELEDL  
ARYDVGATRAHNGSLQHLTWLGLQWNSLPALPGIRKWLKQLFHHL PQETSRLETNAPESI  
CILDLEVFLLGVVYTSHLQLKECNSHHSSYQPLCLPLPVCKQLCTERQKS WWDVAVCTLI  
HRKAVPGNSAKLRLLVQHEINTLRAQEKHGLQPALLVHWAKCLQKMGSGLNSFYDQREYI  
GRSVHYWKKVLPLLKIIKKKNSIPEPIDPLFKHFHSVDIQASEIVEYEEDAHVTFAILDA  
VNGNIEDAMTAFESIKSVVSYWNLALIFHRKAEDIANDALSPEEQEECKNYLRKTRGYLI  
KILDDSDSNLSVVKKLPPVPLESVKEMLKSVMQELENYSEGGPLYKNGSLRNADSEIKHST  
PSPTKYSLSPSKSYKYS PKTPPRWAEDQNSLLKMIRQEVKAIKEEMQELKLNSSKSASHH  
RWPTENYGPDSVPDGYGGSQTFHGAPLTVATTGPSVYYSQSPAYNSQYLLRPAANVTPTK  
GSSNTEFKSTKEGFSIPVSADGFKFGISEPGNQEKKSEKPLENDTGLQAQDISGRKKGRG  
VIFGQTSSTFTFADVAKSTSGEGFQFGKKDLNFKGFSGAGEKLFSSQYGMANKANTSGD  
FEKDDDAYKTEDSDDIHFEPVVQMPEKVELVTGEEGEKVLYSQGVKLFRFDAEVSQWKER  
GLGNLKILKNEVNGKVRMLMQREQVLKVCANHWITTTMNLKPLSGSDRAWMWSASDFSDG  
DAKLERLAAKFKTPELAEFEKQKFEECQRLLLDIPLQTPHKLVD TGRAAKLIQRAEEMKS  
GLKDFKTFLTNDQTKVAEEENKSGTGAAGASDTTIKPN AENTGPTLEWDNYDLREDALD  
DSVSSSVHASPLASSPVRKNLFHFDESTTGSNFSFKSALSLSKSPAKLNQSGTSVGTDE  
ESDVTQEEERDGGYFEPVVPLPDLVEVSSGEENEQVVF SHRAEFYRYDKDVGQWKERGIG  
DIKILQNYDNKHVRILMRRDQVLKLCANHRITPDMSLQNMKGTERVWWTACDFADGERK  
VEHLAVRFLQDVADSFKKIFDEAKTAQEKDSLITPHVSRSTPRES PCGKI AVAVLEET  
TRERTDVIQGGDVADAASEVVSSTSETTTKAVVSPPKFVFGSES VKRIF SSEKSKPFAF  
GNSSATGSLFGFSFNAPLKSNNSETSSVAQSGSESKVEPKKCELSKNSDIEQSSDSKVKN  
LSASFPTTESSINYTFKTPEKEPPLWYAEFTKEELVQKLSSTTKSADHLNGLLREI EATN  
AVLMEQIKLLKSEIRRLERNQEVEVSAANVEHLKNVLLQFIFLKP GSERERLLPVINTML  
QLSLEEKGLAAVAQGEE

>sp|014715|RGPD8\_HUMAN RANBP2-like and GRIP domain-containing protein 8 OS=Homo sapiens  
GN=RGPD8 PE=1 SV=2

MRRSKADVRYVASVLGTPSPRQKSMKGFYFAKLYYEAKKEYDLAKKYICTYINVQERDP  
KAHRFLGLLYELEENTEKAVECYRRSVELNPTQKDLVLKIAELLCKNDVTDGRAKYWVER  
AAKLFPGPSAIIYKLKEQLLDCEGEDGWNKLFDLIQSELYVRPDDVHVNIIRLVELYRSTKR  
LKDAVAHCHEAERNIALRSSLEWNSCVVQTLKEYLESLQCLESDDKSDWRATNTDLLLAYA  
NLMLLTSLTRDVQENRELLESFDSALQSAKSSSLGGNDELSATFLEMKGHFYMYAGSLLLK  
MGQHGNVQWRALSELAALCYLIAFQVPRPKIKLREGKAGQNLEMMACDRLSQSGHMLL  
SLSRGKQDFLKEVVETFANKIGQSALYDALFSSQSPKDTSFGLGDDIGKIDVQEPELEDL  
ARYDVGAIRAHNGSLQHLTWLGLQWNSLPALPGIRKWLKQLFHRLPHETSRLETNAPESI  
CILDLEVFLLGVVYTSHLQLKEKCNSHHSSYQPLCLPFPVCKQLCTERQKSWWDAVCTLI  
HRKAVPGNLAKLRLLVQHEINTLRAQEKHGLQPALLVHWAKYLQKTGSLNSFYGGLEYI  
GRSVHYWKKVLPCLKI IKNSIPEPIDPLFKHFHSVDIQASEIVEYEEDAHITFAILDAV  
NGNIEDAVTAFESIKSVSYWNLALIFHRKAEDIENDALSPEEQEECRNYLTKTRDYLIK  
IIDDGDSNLVSVKKLPVPLESVKQMLNSVMQELEDYSEGGPLYKNGSLRNADSEIKHSTP  
SPTKYSLSPSKSYKSPETPPRWTEDRNSLLNMICQQVEAIKKEMQELKLNSSKSASRHR  
WPTENYGPDSVPDGYQGSQTFHGAPLTVATTGPSVYYSQSPAYNSQYLLRPAANVTPTKG  
SSNTEFKSTKEGFSIPVSADGFKFGISEPGNQEKKREKPLENDTGLQAQDIRGRKKGRGV  
IFGQTSSTFTFADVAKSTSGEGFQFGKKDLNFKGFSGAGEKLFSSRYGKMANKANTSGDF  
EKDDDAYKTEDSDDIHFEPVVQMPEKVELVTGEEGEKVLVSQGVKLFRFDAEVRQWKERG  
LGNLKILKNEVNGKLRMLMRREQVLKVCANHWITTTMNLKPLSGSDRAWMWSASDFSDDG  
AKLERLAAKFKTPELAEFEKQKFEQCRLLLDIPLQTPHKLVDTGRAAKLIQRAEEMKSG  
LKDFKTFLTNDQTKVTEENKSGSTGVAGASDTTIKPNAENTGPTLEWDNYDLREDALDD  
SVSSSSVHASPLASSPVRKNLFRFDESTTGSNFSFKSALSLSKSPAKLNQSGTSVGTDEE  
SVVTQEEERDGGYFEPVPLPDLVEVSSGEENEQVVFSHRAEIYRYDKDVGWKERGIGD  
IKILQNYDNKQVRIVMRRDQVLKLCANHRITPDMSLQNMKGTERTVWWTACDFADGERKV  
EHLAVRFKLQDVADSFKKIFDEAKTAQEKDSLITPHVSRSTPRESPCGKIAVAVLEEIT  
RERTDVIQGGDVADAASEVEVSSTSETTTKAVVSPPKFVVFSESVKRIFSSEKSKPFAFG  
NSSATGSLFGFSFNAPLKSNNSETSSVAQSGSESKVEPKCELSKNSDIEQSSDSKVKNL  
SASFPTTESSINYTFKTPEKEPPLWHAFTKEELVQKLIRSTKSADHLNGLLREIEATNA  
VLMEQIKLLKSEIRRLERNQEREKSAANLEYLKNVLLQFIFLKPGSERERLLPVINTMLQ  
LSPEEKGLAAVAQDEEENPSRSSG

>sp|Q5JS13|RGPS1\_HUMAN Ras-specific guanine nucleotide-releasing factor RalGPS1 OS=Homo  
sapiens GN=RALGPS1 PE=1 SV=1

MYKRNLMAVLVTSATPQGSSSSDSLEGQSCDYASKSYDAVVFVLDVLTPEEFASQITL  
MDIPVFKAIQPEELASCGWSKKEKHS LAPNVVAFTRRFNQVSFWVREILTAQTLKIRAE  
ILSHFVKIAKKLLELNNLHSLMSVVSALQSAPIFRLTKTWALLNRKDKTTFEKLDYLSK  
EDNYKRTREYIRSLKMVPSIPYLGTYLLDLIYIDSAYPASGSIMENEQRSNQMNILRII  
ADLQVSCSYDHLTTLPHVQKYLKSVRYIEELQKFVEDDNYKLSLRIEPGSSSPRLVSSKE  
DLAGPSAGSGSARFSRRPTCPDTSVAGSLPTPPVPRHRKSHSLGNNMMCQLSVVESKSAT  
FPSEKARHLLDDSVLESRRPRGLALTSSSAVTNGLSLGSSESSEFSEEMSSGLESPTGP  
CICSLGNSAAVPTMEGPLRRKTLLKEGRKPALSSWTRYWVILSGSTLLYYGAKSLRGTD  
RKHKSTPGKKVSI VGMVQLPDDPEHPDIFQLNNPDKGNVYKFQTGSRFHAILWHKHLDD  
ACKSNRPQVPANLMSFE

>sp|A6NI28|RHG42\_HUMAN Rho GTPase-activating protein 42 OS=Homo sapiens GN=ARHGAP42 PE=1 SV=3

MGLPTLEFSDSYLDSPDFRERLQCHEIELEERTNKFikelIKDGSLLIGALRNLSMAVQKF  
SQSLQDFQFECIGDAETDDEISIAQSLKEFARLLIAVEEERRRLIQNANDVLIAPLEKFR  
KEQIGAAKDGGKKFDKESEKYYSILEKHLNLSAKKKESHLQEADTQIDREHQNFYEASLE  
YVFKIQEVQEKKKFEFVEPLLSFLQGLFTFYHEGYELAQEFAPYKQQLQFNLQNTRNNFE  
STRQEVERLMQRMKSANQDYRPPSQWTMEGYLYVQEKRPGLFTWIKHYCTYDKGSKTFTM  
SVSEMKSSGKMNLVTSSPEMFKLKSCIRRKTDSDKRFCDIEVVERHGIITLQAFSEA  
NRKLWLEAMDGKEPIYTLPAIISKKEEMLNEAGFNFRKCIQAVETRGITILGLYRIGG  
VNSKVQKLMNTTFSPKSPDIDIDIELWDNKTITSGLKNYLRLAEPLMTYKLHKDFIIA  
VKSDDQNYRVEAVHALVHKLPEKNREMLDILIKHLVKVSLHSQQNLMTVSNLGVIFGPTL  
MRAQEETVAAMMNIKFQNIIVVEILIEHYEKIFHTAPDPSIPLPQPQSRSGSRRTAICLS  
TGSRKPRGRYTPCLAEPDSDSYSSSPDSTPMGSIESLSSHSEQNSTTKSASCQPREKSG  
GIPWIATPSSSNGQKSLGLWTTSPSSSREDATKTDAESDCQSVASVTSPGDVSPPIDLV  
KKEPYGLSGLKRASASSLRISAAEGNKSYSGSIQSLTSVGSKETPKASPNPDLPPKMCR  
RLRLDTASSNGYQRPGSVVAAKAQLFENVGSPKPVSSGRQAKAMYSCKAEHSHLSFPQG  
AIFSNVYPSVEPGWLKATYEGKTGLVPENYVFL

>sp|P84095|RHOG\_HUMAN Rho-related GTP-binding protein RhoG OS=Homo sapiens GN=RHOG PE=1 SV=1

MQSIKCVVVGDAVGKTCLLICYTTNAFPKEYIPTVFDNYSASAVDGRVTNVLNLWDTAG  
QEEYDRLRTLSYPQTNVVICFSIASPPSYENVRHKWHPEVCHHCPDVPILLVGTKKDLR  
AQPDTLRRLKEQGQAPITPQQGQALAKQIHAVRYLECSALQQDGVKEVFAEAVRAVLNPT  
PIKRGRCILL

>sp|Q96JH8|RADIL\_HUMAN Ras-associating and dilute domain-containing protein OS=Homo sapiens GN=RADIL PE=1 SV=5

MFYGTHFIMSPPTKSKLKRQSLLSSMLSRTLKYRDLSTFSSLGASDDPAELSTQLS  
APGVLKVFSDSVCTGTHYKSVLATGTSSARELVKEALERYALDPRQAGQYVLCDVVGQAG  
DAGQRWQARCFRVFGDSEKPLLIQELWKPREGLSRRFELRKRSDEELAAKEVDITAGI  
NAQARRLQRSRAKGTPTPALGDARSSPPRLRRTVSETSLSPVNALPAAQGPPEPGPDA  
MRYSLYQSPHLLLQGYSSQHDLSVYVLNRDRHTVGQRTPSKPSISLSAPDILPLHCTI  
RRQPLPDSGQAAGRLVLEPIPGAHSVNFSEVGHRTTVLHHGDLLSLGLYLLLFKDPAQ  
AQPLPARALARLRAVPQSCRLCGAALGARGAASPTQAALPRRQQLLEFEPHLEDTLQR  
IMTLIEPGDDHKLTPAFLCLCIQHSATHFQPGTFGQLLKIARLIRETVWEKTELAE  
KQAQLQEPISLASCAMADLVPDLQPILFWMSNSIELLYFIQKCPLYMQSMEEQLDITGS  
KESLFSCLTASEEAMAVLEEVLYAFQQCVYYVSKSLYICLPALLECPPFQTERRESWS  
SAPELPEELRRVSVYQAALDLLRQLQVHPEVASQMLAYLFFFSGTLLLNQLLDRGPSLS  
CFHWPRGVQACARLQQLLEWMRSAGFGAAGEHFFQKLSCTLNLLATPRAQLIQMSWTALR  
AAFPALSPAQLHRLLTHTYQLASAMGPMSTWEPGAQDSPEAFRSEDVLESYENPPPIVLPS  
DGFQVDLEANCLDDSIYQHLLYVRHFLWGLRSRASPSPGRPGSGASQPVCEGMHHVVL  
DGHLEAPSCPLAPRDPGAAREVAPERTLPLRGAPWAQAPPGRQPSRGGSQAGPPHTDSS  
CLLTPPSTPLGPEPGDPDWPESSGPGKALPERQRNLSGLRGAAPGDSAAALAEESPPA  
PSSRSSSTEDFCYVFTVELERGPSGLGMGLIDGMHHLGAPGLYIQTLLPGSPAAADGRL  
SLGDRILEVNGSSLLGLGYLRAVDLIRHGGKKMRFLVAKSDVETAKKIHFRTPPL

>sp|Q9H6Z4|RANB3\_HUMAN Ran-binding protein 3 OS=Homo sapiens GN=RANBP3 PE=1 SV=1

MADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEPRGEAEAPHHGTGHPESAGE  
HALEPPAPAGASASTPPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVK  
RERTSSLTQFPSSQSEERSSGFRLKPPTLIHGQAPSAGLPSQKPKEQQRSVLRPAVLQAP  
QPKALSQTVPSSGTNGVSLPADCTGAVPAASPDAAWRSPSEAADEVCALEEKEPQKNES  
SNASEEEACEKKDPATQQAFVFGQNLDRVKLINESVDEADMENAGHPSADTPTATNYFL  
QYISSSLENSTNSADASSNKFVFGQNMSEVLSPPKLNEVSSDANRENAEAESGSESSSQ  
EATPEKESLAESAAAYTKATARKCLLEKVEVITGEEAESNLQMQCKLFFVFDKTSQSWVE  
RGRGLRLNDMASDDGTLQSRLVMRTQGSRLILNTKLWQMIDKASEKSIRITAMDT  
EDQGVKVFLLISASSKDTGQLYAALHHRILALRSRVEQEQAEMPAPEGAAPSNEEDSD  
DDVLAAPSGATAAGAGDEGDGTTGST

>sp|P61224|RAP1B\_HUMAN Ras-related protein Rap-1b OS=Homo sapiens GN=RAP1B PE=1 SV=1  
MREYKLVVLGSGGVGKSALTQVQVGFVEKYDPTIEDSYRKQVEVDAQQCMLIILDTAG  
TEQFTAMRDLYMKNQGQFALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDL  
EDERVVGKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSS  
CQLL

>sp|P10114|RAP2A\_HUMAN Ras-related protein Rap-2a OS=Homo sapiens GN=RAP2A PE=1 SV=1  
MREYKVVVLGSGGVGKSALTQVFTGTFTIEKYDPTIEDFYRKEIEVDSSPSVLEILDTAG  
TEQFASMRDLYIKNGQGFILVYSLVNQQSFQDIKPMRDQIIRVKRYEKPVPILVGNKVDL  
ESEREVSSEGRALAEWGCPCFMETSAKSKTMVDELFAEIVRQMNYAAQPDKDDPCCSAC  
NIQ

>sp|Q70E73|RAPH1\_HUMAN Ras-associated and pleckstrin homology domains-containing protein  
1 OS=Homo sapiens GN=RAPH1 PE=1 SV=3  
MEQLSDEEIDHGAEDSDKEDQDLDMFGAWLGELDKLTQSLDSDKPMPEVKRSPLRQET  
NMNFSYRFSIYNLNEALNQGETVDLDALMADLCSIEQELSSIGSGNSKRQITETKATQK  
LPVSRHTLKHGTLKGLSSSSNRIAKPSHASYSLLDDVTAQLEQASLSMDEAAQQSVLEDTK  
PLVTNQHRRTASAGTVSDAEVHSISNSSHSITSAASSMDSLIDKVTREPQLDLTHQGG  
PITEEEQAAKLKAEKIRVALEKIKEAQVKKLVIRVHMSDDSSKTMVDERQTVRQVLDNL  
MDKSHCGYSLDWSLVETVSELQMERIFEDHENLVENLLNWTRDSQNKLIEMERIEKYALF  
KNPQNYLLGKKETAEMADRNKEVLLLEECFCGSSVTPEIEGVLWLKDDGKKSWKRYFLL  
RASGIYVVPKGKAKVSRDLVCFLQLDHVNVYGGQDYRNKYKAPTCLVLPKHPQIQKKSQ  
YIKYLCDDVRTLHQWVNGIRIAKYGKQLYMNQAEALKRTESAYDWTSLSSSSIKSGSSS  
SSIPESQSNHSNQSDSGVSDTQPAQHVSQSIVSSVFSEAWKRGTLQLESSKARMESMNR  
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APMFVKYSTITRLQNASQHSALFKPPTPPVMQSVKPKILVPPNGVPPPPPPPPPT  
PGSAMAQLKPAPCAPSLPQFSAPPPPLKIHQVQHITQVAPPTPPPPPPIPAPLPPQAPPK  
PLVTIPAPTSTKTAVPVVTAAPPTPTPPVPPAKKQAFAPASYIPSPPTPPVPVPPPTL  
PKQQSFCAPPPSPVPSVVKQIASQFPPTTPPAMESQPLKVPANVAPQSPPAVKA  
KPKWQPSSIPVPSDFPPPPPESSLVFPPPPSPVPAPPPPPPTASPTPKSGSPGKKT  
SKTSSPGGKKPPTPQRNSSIKSSSGAEHPEPKRPSVDSLVSFTPPAESGSPSKETLPP  
PAAPPKPGKLNLSGVLNPGVLQQGCVSAPVLSGRGKDSVVEFPSPSDSDFPPPPPET  
ELPLPIEIPAVFSGNTSPKVAVNPQPQQWSKMSVKKAPPPTRPKRNDSTRLTQAEISE  
QPTMATVVPVQVPTSPKSSLSVQPGFLADLNRTLQRKSITRHGSLSSRMSRAEPTATMDDM  
ALPPPPPELLSDQQKAGYGGSHISGYATLRRGPPAPPKRDQNTKLSRDW

>sp|Q15907|RB11B\_HUMAN Ras-related protein Rab-11B OS=Homo sapiens GN=RAB11B PE=1 SV=4

MGTRDDEYDYLKVVLLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTI  
KAQIWDTAGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVIM  
LVGNKSDLRLRAVPTDEARAFAEKNNLSFIETSALDSTNVEEAFKNILTEIYRIVSQKQ  
IADRAAHDESPGNNVVDISVPPTTDGQKPNKLQCCQN

>sp|Q12829|RB40B\_HUMAN Ras-related protein Rab-40B OS=Homo sapiens GN=RAB40B PE=2 SV=1  
MSALGSPVRAYDFLLKFLLVGDSVDVGKEILASLQDGAESPYPGHPAGIDYKTTTILLDG  
RRVKLQLWDTSGQGRFCTIFRSYSRGAQGVILVYDIANRWSFDGIDRWIKEIDEHAPGVP  
KILVGNRLHLAFKRQVPTEQAQAYAERLGVTFEVSPLCNFNITESFTELARIVLLRHGM  
DRLWRPSKVLSQLDLCCRAVVSCTPVHLVDKPLPLPIALRSHLKSFSMANGLNARMMHGG  
YSLTTSSTHCRSSLRKVKLVPRPPQSPKNCNTRNSCKIS

>sp|Q96S21|RB40C\_HUMAN Ras-related protein Rab-40C OS=Homo sapiens GN=RAB40C PE=1 SV=1  
MGSQSPVKSYDYLLKFLLVGDSVDVGKEILESQDGAESPAYSNIDYKTTTILLDG  
RRVKLELWDTSGQGRFCTIFRSYSRGAQGILLVYDITNRWSFDGIDRWIKEIDEHAPGVP  
RILVGNRLHLAFKRQVPTEQARAYAENKCMTFEVSPLCNFNIESFTELSRIVLMRHGM  
EKIWRPNRVFSLQDLCCRAIVSCTPVHLIDKPLPVTIKSHLKSFSMANGMNAVMMHGRS  
YSLASAGGGGSKGNLSLKRKSKIRPPQSPQNCNCSNCKIS

>sp|Q9NYW8|RBAK\_HUMAN RB-associated KRAB zinc finger protein OS=Homo sapiens GN=RBAK PE=1  
SV=1

MNTLQGPVSFKDVAVDFTQEEWQQLDPDEKITYRDVMLENYSHLVSVGYDTTKPNV I I K L  
EQGEEPWIMGGEFPCQHSPEAWRVDDLIERIQENEDKHSRQAACINSKTLTEEKENTFSQ  
IYMETSLVPSSIIAHNCVSCGNLESISQLISSDGSYARTKPDECNECGKTYHGEKMCEF  
NQNGDTYSHNEENILQKISILEKPFYNECMEALDNEAVFIAHKRAYIGEKPYEWNDSGP  
DFIQMSNFNAYQRSQMEMKPFECSECGKSFCKKSKFI IHQRAHTGEKPYECNVCCKSFSQ  
KGTLTVHRRSHLEEKPYKCNECGKTFQCQLHLTQHLRTHSGEKPYECSECGKTFCKTHL  
TLHQRNHSGERPYPCNECGKFSRKSALSDHQRTHTEKLYKCNECGKSYRKSTLITHQ  
RTHTEKPYQCSECGKFFSRVSYLTIHYRSHLEEKPYECNECGKTFNLNSAFIRHRKVHT  
EEKSHECSECGKFSQLYLTDHHTAHLEEKPYECNECGKTFVNSAFDGHQLPKGEKSYE  
CNVCGKLFNELSYYTEHYRSHSEKPYGCSECGKTFSHNSSLFRHQRVHTGEKPYECYEC  
GKFFSQKSYLTIHHRHISGEKPYECSKCGKVFSRMSNLTVHYRSHSGEKPYECNECGKVF  
SQKSYLTVHYRTHSGEKPYECNECGKKFHHRSAFNHQRIHRRGNMNVLDVENL

>sp|Q8NOV3|RBFA\_HUMAN Putative ribosome-binding factor A, mitochondrial OS=Homo sapiens  
GN=RBFA PE=1 SV=3

MWAAAGGLWRSRAGLRALFRSRDAALFPGCERGLHCSAVSCKNLKKFASKTKKKVWYES  
PSLGSHSTYKPSKLEFLMRSTSKKTRKEDHARLRALNGLLYKALTDLLCTPEVSQELYDL  
NVELSKVSLTPDFSACRAYWKTTL SAEQNAHMEAVLQRSAAHMRHLLMSQQTLRNVPPIV  
FVQDKGNAALAEQLLAVADFGPRDERDNFVQNDFRDPDAPQPCGTTEPTTSSSLCGID  
HEALNKQIMEYKRRRKDKGLGGLVWQGVAE L T Q M K K G R K R A K P R L E Q D S S L K S Y L S G E E  
VEDDLDLVGAPEYECYAPDTEELEAERGGGRTEDGHSCGASRE

>sp|Q5T481|RBM20\_HUMAN RNA-binding protein 20 OS=Homo sapiens GN=RBM20 PE=1 SV=3

MVLA A A M S Q D A D P S G P E Q P D R V A C S V P G A R A S P A P S G P R G M Q P P P P P Q P P P P Q A G L P Q  
I I Q N A A K L L D K N P F S V S N P N P L L P S P A S L Q L A Q L Q A Q L T L H R L K L A Q T A V T N N T A A A T V L  
N Q V L S K V A M S Q P L F N Q L R H P S V I T G P H G H A G V P Q H A A A I P S T R F P S N A I A F S P P S Q T R G P  
G P S M N L P N Q P P S A M V M H P F T G V M P Q T P G Q P A V I L G I G K T G P A P A T A G F Y E Y G K A S S G Q T Y  
G P E T D G Q P G F L P S S A S T S G S V T Y E G H Y S H T G Q D G Q A A F S K D F Y G P N S Q G S H V A S G F P A E Q

AGGLKSEVGPLLQGTNSQWESPHGFSGQSKPDLTAGPMWPPPHNQPYELYDPEEPTSDRT  
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VFDLKDWEHLHVKGKGLHAQKCLVFSENAGIRCILGSAEGLCASPNSTAVYNPAGNEDYAS  
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PFGKVTNYILMKSTNQAFLEMAYTEAAQAMVQYYQEKS AVINGEKLLIRMSKRYKELQLK  
KPGKAVAAIIQDIHSQRERDMFREADRYGPERPRSRSPVSRSLSPRSHTPSFTSCSSSHS  
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AELDERPEGGRPHREKYPRSGSPNLPHSVSSYKSREDGYRKEPKAKWDKYLKQQQDAPG  
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RKENTMAENEAGKEEQEGMEESPQSVGRQEKEAFSDPENTRTKKEQDWESESEAEGESW  
YPTNMEELVTVDEVGEEEDFIVEPDIPELEEIVPIDQDKICPETCLCVTTTLDLDAQD  
FPKEGVKAVGNAAEISLKSRELPSASTSCPSDMDVEMPGLNDAERKPAESETGLSLE  
DSDCYEKEAKGVESDVPAPTQQMSSPKPAEERARQPSPFVDDCKTRGTPEDGACEGS  
PLEEKASPPIETDLNQACQEVLTPENSRYVEMKSLEVRSPYEYTEVELKQPLSLPSWEPE  
DVFSELSIPLGVFVVPRTGFYCKLCGLFYTSEETAKMSHCRSAVHYRNLQKYLSQLAE  
GLKETEGADSPRPEDSGIVPRFERKKL

>sp|Q96LT9|RBM40\_HUMAN RNA-binding protein 40 OS=Homo sapiens GN=RNPC3 PE=1 SV=1

MAAPEQPLAISRGCTSSSSLSPPRGDRTLLVRHLPAELTAEKEDLLKYFGAQSVRVLS  
KGRLKHTAFATFPNEKAAIKALTRLHQLKLLGHTLVVEFAKEQDRVHSPCPTSGSEKKR  
SDDPVEDDKKKELGYLTVENGIAPNHGLTFPLNSCLKYMPSPSTILANIVNALASVP  
KFYVQVLHLMNMNLPFPGPITARPPMYEDYMLHAPLPPTSPQPPEEPPLPDEDEELS  
SESEYESTDDEDRQRMNKLMEANLQPKRPKTIKQRHVRKKRKIKDMLNTPLCPSHSSL  
HPVLLPSDVFDQPPVGNKRIEFHISTDMPAAFKKDLEKEQNCEEKNHDLPAEVDASNI  
GFGKIFPKPNLDITEEIKEDSDEMPSECISRRELEKGRISREEMETLSVFRSYEPGEPNC  
RIYVKNLAKHVQEKDLKYIFGRYVDFSSETQRIMFDIRLMKEGRMKGQAFIGLPNEKAAA  
KALKEANGYVLFGKPMVVQFARSARPKQDPKEGKRKC

>sp|Q96IZ5|RBM41\_HUMAN RNA-binding protein 41 OS=Homo sapiens GN=RBM41 PE=1 SV=2

MKRVNSCVKSDHVLLEELETEGERQLKSLLQHQLDTSVSIEECMSKKESFAPGTMYKPF  
KEAAGTMTLSQFQTLHEKDQETASLRELGLNETEILIWKSHVSGEKKTKLRATPEAIQNR  
LQDIEERISERQRIILCLPQRFASKQLTRREMEIEKSLFQGADRHSFLKALYYQDEPQKK  
NKGDPNMNLESFYQEMIMKKRLEEFQLMRGEPFASHLSVATSVDGSGTAESPLLQDKG  
KQAAQKGKPSLHVANVIDFSPEQCWTGPKKLTQPIEFVPEDEIQNRNLSEEEIRKIPMFS  
SYNPGEPNKVLYLKNLSPRVTERDLVSLFARFQEKKGPIQFRMMTGRMRGQAFITFPNK  
EIAWQALHLVNGYKLHGKILVIEFGKNKKQRSNLQATSLISCATGSTTEISGS

>sp|Q9H477|RBSK\_HUMAN Ribokinase OS=Homo sapiens GN=RBKS PE=1 SV=1

MAASGEPQRQWQEEVAVVVVGSCMTDLVSLTSRLPKTGETIHGHKFFIGFGGKGANQCV  
QAARLGAMTSMVCKVGKDSFGNDYIENLKQNDISTEFTYQTKDAATGTASIIVNNEGQNI  
IVIVAGANLLNTEDLRAAANVISRAKVMVCQLEITPATSLEALTMARRSGVKTLFNPAP  
AIADLDPQFYTLSDVFCCNESEAEILTGLTVGSAADAGEAALVLLKRGCVVVIITLGAEG  
CVVLSQTEPEPKHIPTEKVKAVDTTGAGDSFVGALAFYLAIPPNSLEDMLNRSNFIAAV  
SVQAAGTQSSYPYKDLPLTLF

>sp|Q9UBF6|RBX2\_HUMAN RING-box protein 2 OS=Homo sapiens GN=RNF7 PE=1 SV=1

MADVEDGEETCALASHSGSGSKSGGDKMFSLLKKNVAMWSWDECDTCAICRVQVMDA  
CLRCQAENKQEDCVVWGECHNSFHNCCMSLVVKQNNRCPLCQDQWVVRIGK

>sp|Q15415|RBY1F\_HUMAN RNA-binding motif protein, Y chromosome, family 1 member F/J  
OS=Homo sapiens GN=RBY1F PE=1 SV=2

MVEADHPGKLFIFGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFATITFENPAD  
AKNAAKDMNGTSLHGKAIKVEQAKKPSFQSGGRRRPPASSRNRSPSGSLRSARGSSGGTR  
GWLPSHEGHLDDGGYTPDLKMSYSRGLIPVKRGPSSRSGGPPPKKSAPSAVARNSNWMGS  
QGPMQRRENYGVPPRRATISSWRNDRMSTRHDGYATNDGNHPSCQETRDYAPPSRGYAY  
RDNGHSNRDEHSSRGYRNHRSSRETRDYAPPSRGHAYRDYGHSSRDESYSGYRNHRSSR  
ETREYAPPSRGHGYRDYGHSSRHEYSYSGYRNHPSSRETRDYAPPHRDYAYRDYGHSSWD  
EHSSRGYSYHDGYGEALGRDHSEHLGSSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA  
YSNTRDRYGRSWESYSSCGDFHYCDREHVCCKDQRNPPSLGRVLPDPREAYGSSSYVASI  
VDGGESRSEKGDSSRY

>sp|P53805|RCAN1\_HUMAN Calcipressin-1 OS=Homo sapiens GN=RCAN1 PE=1 SV=4

MEDGVAGPQLGAAAEAAEAARARPGVTLRPFAPLSGAAEADGGGDWSFIDCEMEEVD  
LQDLPSATIACHLDPRVFVDGLCRAKFESLFRITYDKDITFYFKSFKRVIRINFSNPFSA  
DARLQLHKTEFLGKEMKLYFAQTLHIGSSHLAPPNPDQKFLISPPASPPVGWKVEDATP  
VINYDLLYAIKSLGPGEKYELHAATDTTPSVVVHVCESDQEKEEEEEEMRMRRPKPKIIQ  
TRRPEYTPIHLS

>sp|000559|RCAS1\_HUMAN Receptor-binding cancer antigen expressed on SiSo cells OS=Homo  
sapiens GN=EBAG9 PE=1 SV=1

MAITQFRLFKFCTCLATVFSFLKRLICRSGRGRKLSGDQITLPTTVDYSSVPKQTDVEEW  
TSWDEDAPTSVMIEGGNGVATQQNSLEQLPDYFKDMPTIRKTQKIVIKKREPLNFGI  
PDGSTGFSSRLAATQDLPIHQSSSELGDLDTWQENTNAWEEEDAAWQAEVLRQQKLAD  
REKRAAEQQRKKMEKEAQRLMKKEQNKIGVKLS

>sp|095199|RCBT2\_HUMAN RCC1 and BTB domain-containing protein 2 OS=Homo sapiens GN=RCBT2  
PE=1 SV=1

MEEELPLFSGDSGKPVQATLSSLKMLDVGWPIFSLCSEELQLIRQACVFGSAGNEVLY  
TTVNDEIFVLGTNCCGCLGLGDVQSTIEPRRLDSLNGKKIACLSYSGSPHIVLATTEGEV  
FTWGHNAYSQLGNGTNNHGLVPCISTNLSNKQVIEVACGSYHSLVLTSDGEVFAWGYNN  
SGQVSGSTVNQPIPRRVGTCLQNKVVVTIACGQMCCMAVVDTEGVYVWGYNGNGQLGLG  
NSGNQPTPCRVAALQGIRVQRVACGYAHTLVLTDEGQVYAWGANSYGQLGTGNKSNQSYP  
TPVTVEKDRIIEIAACHSTHTSAAKTQGGHVYMWGQCRGQSVILPHLTHFSCTDDVFACF  
ATPAVTRWLLSVEPDDHLTVAESLKREFDNPDTADLKFLVDGKYIYAHKVLLKIRCEHFR  
SSLEDNEDDIVEMSEFSYPVYRAFLEYLYTDSISLSPEEAVGLLDLATFYRENRLKKLCQ  
QTIKQGICEENAIALLSAVKYDAQDLEEFCEFRFCINHLTVVTQTSGFAEMDHDLLKNFI  
SKASRVGAFKN

>sp|Q00765|REEP5\_HUMAN Receptor expression-enhancing protein 5 OS=Homo sapiens GN=REEP5  
PE=1 SV=3

MSAAMRERFDRFLHEKNCMTDLLAKLEAKTGVNRSFIALGVIGLVALYLVFGYGASLLCN  
LIGFGYPAYISIKAIESPKNKEDDTQWLTYWVVYGVFSIAEFFSDIFLSWFPFYMLKCGF  
LLWCMAPSPSNGAELLYKRIIRPFCLKHESQMDSVVKDLKDKAKETADAITKEAKKATVN  
LLGEEKKST

>sp|P48304|REG1B\_HUMAN Lithostathine-1-beta OS=Homo sapiens GN=REG1B PE=1 SV=1

MAQTNFFMLISSLMFLSLSQGQESQTELPNPRISCPEGTNAYRSYCYFNEPETHWDA  
DLYCQNMNSGNLVSFLTQAEGAFVASLIKESSTDDSNVWIGLHDPKKNRRWHWSSGSLVS

YKSWDTGSPSSANAGYCASLTSCSGFKWKWDESCEKKFSFVCKFKN

>sp|P04808|REL1\_HUMAN Prorelaxin H1 OS=Homo sapiens GN=RLN1 PE=2 SV=1

MPRLFLFHLLEFCLLNQFSRAVAAKWKDDVIKLCGRELVRAQIAICGMSTWSKRSLSQE  
DAPQTPRPVAEIVPSFINKDTETIIIMLEFIANLPPELKAALSERQPSLPQLQQYVPALK  
DSNLSFEFEKKLIRNRQSEAADSNPSELKYLGLDTHSQKKRRPYVALFEKCCLIGCTKRS  
LAKYC

>sp|P04090|REL2\_HUMAN Prorelaxin H2 OS=Homo sapiens GN=RLN2 PE=1 SV=1

MPRLFFFHLLGVCLLNQFSRAVADSWMEEVIKLCGRELVRAQIAICGMSTWSKRSLSQE  
DAPQTPRPVAEIVPSFINKDTETINMMSEFVANLPQELKLTLSMQPALPQLQQHVPVLK  
DSSLLFEFEKKLIRNRQSEAADSSPSELKYLGLDTHSRKKRQLYSALANKCCHVGCTKRS  
LARFC

>sp|Q8NC24|RELL2\_HUMAN RELT-like protein 2 OS=Homo sapiens GN=RELL2 PE=1 SV=1

MSEPPQDLEPPQHGLYMLFLLVLVFFLMGLVGFMICHLVKKKGYRCRTSRGSEPDDAQLQ  
PPEDDDMNEDTVERIVRCIIQNEANAELKEMLDGSEGETVQLSSVDATSSLQDGAPSH  
HHTVHLGSAAPCLHCSRKRPLVRQGRSKEGKSRPTGETTVFSVGRFRVTHIEKRYGL  
HEHRDGSPTDRSWGSGGGQDPGGGQSGGGQPKAGMPAMERLPPERPPQVVASPPVQNG  
GLRDSSLTPRALEGNPRASAEPTLRAGGRGSPGLPTQEANGQPSKPDTSDHQVSLPQGA  
GSM

>sp|O75628|REM1\_HUMAN GTP-binding protein REM 1 OS=Homo sapiens GN=REM1 PE=1 SV=2

MTLNTEQEAKTPLHRRASTPLPLSPRGHQPGRLSTVPSTQSQHPRLGQSASLNPPTQKPS  
PAPDDWSSSESDSEGSWEALYRVLLGDPGVGKTSLASLFAGKQERDLHEQLGEDVYERT  
LTVDGEDTTLVVVDTWAEKLDKSWSESCLQGGSAYVIVYSIADRGSFESASELRIQLR  
RTHQADHVPIILVGNKADLARCREVSVEEGRACAVVFDCKFIETSATLQHNVAELFEGVV  
RQLRLRRRDSAAKEPPAPRRPASLAQRARRFLARLTARSARRRALKARSKSCHNLAVL

>sp|Q92900|RENT1\_HUMAN Regulator of nonsense transcripts 1 OS=Homo sapiens GN=UPF1 PE=1  
SV=2

MSVEAYGPSSQTLTFLDTEEAELLGADTQGSEFEFTDFTLPSQTQTPPGPGPGGGGAG  
GPGGAGAGAAAGQLDAQVGPEGILQNGAVDDSVAKTSQLLAELNFEEDEEDTYTKDLPI  
HACSYCGIHDPACVVYCNSTSKKWFNCNCRGNTSGSHIVNHLVRAKCKEVLHKDGPLGETV  
LECYNCGRNVFLFGFIPAKADSVVLLCRQPCASQSSLKDINWDSSQWQPLIQDRCFLS  
WLVKIPSEQEQLRARQITAQQINKLEELWKENPSATLEDEKPGVDEEPQHVLLRYEDAY  
QYQNIQFGLVKLEADYDKKLKESQTQDNITVRWDLGLNKKRIAYFTLPKTDSGNEDLVII  
WLRDMRLMQGDEICLRYKGDAPLWKGIGHVIVKVPDNYGDEIAIELRSSVGAPVEVTHNF  
QVDFVWKSTSFDRMQSALKTFVDETSVSGYIYHKLLGHEVEDVIKICQLPKRFTAQGLP  
DLNHSQVYAVKTVLQRPLSLIQGPPGTGKTVTSATIVYHLARQGNGPVLVCAPSNIIVDQ  
LTEKIHQTGLKVVRLCAKSREIDSPVSFLALHNQIRNMDSMPQLKLQQLKDETGELSS  
ADEKRYRALKRTAERELLMNADVICTCVGAGDPRLAKMQFRSILIDESTQATEPECMVP  
VVLGAKQLILVGHCQLGPVVMCKKAAKAGLSQSLFERLVVLGIRPIRLQVQYRMHPALS  
AFPSNIFYEGSLQNGVTAADRVKKGDFQWPQDPKPMFFVYTQGEIASSGTSYLNRT  
AANVEKITTKLLKAGAKPDQIGIITPYEGQRSYLVQYMQFSGSLHTKLYQEVEIASVDAF  
QGREKDFIILSCVRANEHQGIGFLNDPRRLNVALTRARYGVIIIVGNPKALSKQPLWNHLL  
NYYKEQKVLVEGPLNNLRESLMQFSKPRKLNTINPGARFMTTAMYDAREAIIPGSVYDR  
SSQGRPSSMYFQTHDQIGMISAGPSHVAAMNIPFNLVMPMPPPGYFGQANGPAAGRG  
TPKGKTGRGGRQKNRFLPGPSQTNLNSQASQDVASQPFSSQGALTQGYISMSQPSQMSQ



PGLSQPELSQDSYLGDEFKSQIDVALSQDSTYQGERAYQHGGVTGLSQY

>sp|Q96A58|RERG\_HUMAN Ras-related and estrogen-regulated growth inhibitor OS=Homo sapiens  
GN=RERG PE=1 SV=1

MAKSAEVKLAIFGRAGVGKSALVVRFLTKRFIWEYDPTLESTYRHQATIDDEVVSMEILD  
TAGQEDTIQREGHMRWGEGFVLVDITDRGSFEEVLPLKNILDEIKKPKNVTILILVGKA  
DLHDSRQVSTEEGEKLATELACAFYECSACTGEGNITEIFYELCREVRRRRMVQGKTRRR  
SSTTHVKQAINKMLTKISS

>sp|Q5VY80|RET1L\_HUMAN Retinoic acid early transcript 1L protein OS=Homo sapiens GN=RAET1L  
PE=1 SV=1

MAAAAI PALLLCLPLLFLFGWSRARRDDPHSLCYDITVIPKFRPGPRWCAVQGQVDEKT  
FLHYDCGKNTVTPVSPLGKKLVNTMAWKAQNPVLREVVDILTEQLLDIQLENYTPKEPLT  
LQARMSCEQKAEGHSSGSWQFSIDGQTFLLFDSEKRMWTTVHPGARKMKEKWENDKDVAM  
SFHYISMGDCIGWLEDFLMGMDSTLEPSAGAPLAMSSGTTQLRATATTLILCCLLIILPC  
FILPGI

>sp|P50120|RET2\_HUMAN Retinol-binding protein 2 OS=Homo sapiens GN=RBP2 PE=1 SV=3

MTRDQNGTWEMESNENFEGYMKALDIDFATRKIAVRLTQTKVIDQDGNFKTKTTSTFRN  
YDVDFTVGVEFDEYTKSLDNRHVKALVTWEGDVLVCVQKGEKENRGWKQWIEGDKLYLEL  
TCGDQVCRQVFKKK

>sp|P82980|RET5\_HUMAN Retinol-binding protein 5 OS=Homo sapiens GN=RBP5 PE=1 SV=3

MPPNLTGYIRFVSQKNMEDYLQALNISLAVRKIALLLKPDKEIEHQGNHMTVRTLSTFRN  
YTVQFDVGVEFEEDLRSVDGRKQCTIVTWEEHLVCVQKGEVPNRGWRHWLEGEMLYLEL  
TARDAVCEQVFRKVR

>sp|Q9BQ08|RETNB\_HUMAN Resistin-like beta OS=Homo sapiens GN=RETNLB PE=2 SV=1

MGPSSCLLLILIPLLQLINPGSTQCSLDSVMDKKIKDVLNSLEYSPSPISKKLSCASVKS  
QGRPSSCPAGMAVTGCACGYGCGSWDVQLETTCHCQCSVDWTTARCCHLT

>sp|Q6NUM9|RETST\_HUMAN All-trans-retinol 13,14-reductase OS=Homo sapiens GN=RETSAT PE=1  
SV=2

MWLPLVLLLAVLLLAVLCKVYLGLFSGSSPNPFSADVVRPPAPLVTDKARKKVLKQAFS  
ANQVPEKLDVVVIGSGFGLAAAAILAKAGKRVLVLEQHTKAGGCCHTFGKNGLEFDTGI  
HYIGRMEEGSIGRFILDQITEGQLDWAPLSSPFDIMVLEGPNGRKEYPMYSGEKAYIQGL  
KEKFPQEEAIDKYIKLVKVSSGAPHAILLKFLPLPVVQLLDRCGLLTRFSPFLQASTQ  
SLAEVLQQLGASSELQAVLSYIFPTYGVTNPNSAFSMHALLVNHMKGGFYPRGGSSEIA  
FHTIPVIQRAGGAVLTKATVQSVLLDSAGKACGVSVKKGHELVNIYCPIVVSNAGLFNTY  
EHLLPGNARCLPGVKQQLGTVRPLGMTSVFICLRGTEKDLHLPSTNYYVYDMDQAM  
ERYVSMPREEAAEHIPLFFAFPSAKDPTWEDRFPGRSTMIMLIPTAYEWFEEWQAEKLG  
KRGSDYETFKNSFVEASMSVVLKLFQLEGKVESVTAGSPLTNQFYLAAPRGACYGADHD  
LGRLHPCVMASLRAQSPIPNLYLTGQDIFTCLGLVGALQGALLCSSAILKRNLYSDLKNLD  
SRIRAQKKKN

>sp|P35244|RFA3\_HUMAN Replication protein A 14 kDa subunit OS=Homo sapiens GN=RPA3 PE=1  
SV=1

MVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLD  
EEISGIVEVVGRTAKATILCTSYVQFKEDSHFPDLGLYNEAVKIIHDFPQFYPLGIVQH  
D

>sp|P35251|RFC1\_HUMAN Replication factor C subunit 1 OS=Homo sapiens GN=RFC1 PE=1 SV=4

MDIRKFFGVIPSGKKLVSETVKKNEKTKSDEETLKAKKGIKEIKVNSSRKEDDFKQKQPS  
KKKRRIYDSSESEETLQVKNAKKPPEKLPVSSKPGKISRQDPVTYISETDEEDDFMCKK  
AASKSKENGRSTNSHLGTSNMKKEENTTKTKNKPLSPIKLTPTSVDYFGTGSVQRSNKK  
MVASKRKELSQNTDESGLNDEAIAKQLQLEDAELERQLHEDEEFARTLAMLDEEPTKK  
ARKDTEAGETFSVQANLSKAEKHKYPHKVKTAVSDEKSYSPRKQSKYESSKESQQHS  
KSSADKIGEVSSPKASSKLAIMKRKEESSYKEIEPVASKRKENAIKLKGETKTPKKTSS  
PAKKESVSPEDSEKKRTNYQAYRSYLNREGPKALGSKEIPKGAENCLEGLIFVITGVLES  
IERDEAKSLIERYGGKVTGNVSKKTNLYVMGRDSGQSKSDKAAALGTKIIDEDGLNLIR  
TMPGKKSKYEIAVETEMKKESKLERTPQKNVQGKRKISPSKKESESKKSRPTSKRDSLAK  
TIKETDVFWSLDFKEQVAEETSGDSKARNLADDSENKVENLLWVDKYKPTSLKTIIG  
QQGDQSCANKLLRWLRNWQKSSSEDKKHAAKFGKFSKGDDGSSFKAALLSGPPGVGKTTT  
ASLVCQELGYSYVELNASDTRSKSSLKAIVAESLNNTSIKGFYSNGAASSVSTKHALIMD  
EVDGMAGNEDRGGIQELIGLIKHTKIPIICMCNDRNHPKIRSLVHYCFDLRFQRPRVEQI  
KGAMMSIAFKEGLKIPPPAMNEIILGANQDIRQVLHNLSMWCARSKALTYDQAKADSHRA  
KKDIKMGPFDVARKVFAAGEETAHMSLVDKSDLFFHDYSIAPLFVQENYIHVKPVAAGGD  
MKKHLMLLSRAADSIDGDLVDSQIRSKQNSLLPAQAIYASVLPGELMRGYMTQFPFTP  
SWLGKHSSTGKHDRIVQDLALHMSLRTYSSKRTVNMDYLSLLRDALVQPLTSQGVGDGVQD  
VVALMDTYLKMEDFENIMEISSWGGKPSPFSLDPKVKAFTRAYNKEAHLTPYSLQAI  
KASRHSTSPSLDSEYNEELNEDDSQSDEKDQDAIETDAMIKKKTSSKPSKPEKDKEPRK  
GKGKSSKK

>sp|Q8HWS3|RFX6\_HUMAN DNA-binding protein RFX6 OS=Homo sapiens GN=RFX6 PE=1 SV=2

MAKVELEDTFLQAQAPQLSPGIQEDCCVQLLGKGLLVYPEETVYLAEEGQPGGEQGGG  
EKGEDPELPGAVKSEMHLNNGNFSSEEDADNHDSKTKAADQYLSQKKTITQIVKDKKKQ  
TQLTLQWLEENYIVCEGVCLPRCILYAHYLDFCRKEKLEPACAATFGKTIRQKFPLLTTR  
RLGTRGHSKYHYYGIGIKESSAYYHSVYSGKGLTRFSGSKLKNEGGFTRKYSLSSTGT  
LPEFPSAHLVYQGCISKDKVDTLIMMYKTHCQCILDNAINGNFEEIQHFLHFWQGMPD  
HLLPLENPVIIDIFCVCDSILYKVLTDVLIPATMQEMPESLLADIRNFAKNWEQWVSS  
LENLPEALTDKKIPIVRRFVSSLRQTSFLHLAQIARPALFDQHVVNSMVSDIERVDLNS  
IGSQALLTISGTDTESGIYTEHDSITVFQELKDLLKKNATVEAFIEWLDTVVEQRVIKT  
SKQNGRSLKKRAQDFLLKWSFFGARVMHNLTLNNASSFGSFHLIRMLLDEYILLAMETQF  
NNDKEQELQNLLDKYMKNSDASKAAFTASPSSCFLANRNKGMVSSDAVKNESHVETTYL  
PLPSSQPGGLGPALHQFPAGNTDNMPLTGQMELSQIAGHLMTPPISPAMASRGSVINQGP  
MAGRPPSVGPVLSAPSHCSTYPEPIYPTLPQANHDFYSTSSNYQTVFRAQPHSTSGLYPH  
HTEHGRCAWTEQQLSRDFFSGCAGSPYNSRPPSSYGPSLQAQDSHMQFLNTGSFNFL  
SNTGAASCQGATLPPNSPNGYYGSNINYPESHRLGSMVNQHVSVISSIRSLPPYSIDIHP  
LNILDDSGRKQTSSFYTDTSPPVACRTPVLASSLQTPIPSSSSQCMYGTSNQYPAQETLD  
SHGTSSREMVSSLPPINTVFMGTAAGGT

>sp|Q8NET4|RGAG1\_HUMAN Retrotransposon gag domain-containing protein 1 OS=Homo sapiens  
GN=RGAG1 PE=1 SV=1

MSIPLHSLRFNNTMREENVEPQNKQMAFCRPMETETRADVQILHSHVQLPIVSTSASDPGG  
TSTQLMTSPVFDTMSAPLMGVPNSGALSPLMPASDSGALSPLLMPASDSGALSPLLMPA  
LDSGTLSPLLSTSEYGVMSPPGMTIPDFGTMSATLMVAPDSAEISPLAMPAPSSGVVCTP  
IMSTSSSEAMSTPLMLAPDSGELSPILMQDMNPGVMSTQVPVPAPSSEAMSPLQITDEDTE  
AMSKVLMTALASGEISSLLMSGTDSEAISSLIMSASVAGGTSPQPTSTQNSGGIPTPLMS

DLDSGIMSSLLMSSPGSEVMSTPLLSVPDAGEMSTLPKPAPDAEAMSPALMTALPSGVMP  
TQTMPAPGSGAMSPWSTQNVDSEMMSNPPVRATASGVMSAPPVRALDSGAMSTPLMGAPA  
SGNMSTLQKTVPASGAMTTSMTVPSSSGVMSTEQMSATASRVMSAQLTMAKTSGAMPTGS  
MKAVAKQYKRATASGKMSTPLRRAPTSAMSTQPVTTATASETMSMPQLTVPASGMSMLQ  
MRAPVSEAMSMPQMRMTASGLTSAAQMKAMTSAMSTPLMTAQTSGSTSTLLMRDTASGV  
MSCPQMRSASGALS KPLMTPKASGTMFTEKMTTASEAMPTLLMRDTSVSGALSMPQMTD  
TASGGLSASLMRDTASGAMSTSQMTATVSGGMSMPLMRAQDPGVMPASLMRAKVS GKMLS  
QPMSTQDPGGMSMPMKSMTAGGMQMNSTSDVMSTPTVRAWTSETMSTPLMRTSDPGER  
PSLLTRASSSGEMSLPLMRAPASGEIATPLRSPAYGAMSAPQMTATASGMMSSMPQVKAP  
ISGAMSMPTRSTASGGMSMPLMRAPDSRVTSSTQMMPTASGDMCTLPVRAPASGGVSSP  
LVRAPASGTMSTPLRRPSACETVSTELMRASASGHMSTAQTAMVSGGMSKPLMRAPASG  
TMPMPLMSAMASGEMSMPLMETMASGATSTLQTSVANSRMSLSQTTYTVSGRMATAPIR  
ASASGARSTSFMRASVSGSMPMPLPRATASGCGMGMSMPQMTATDSRGMSTPLMRASGPG  
TMSTPQTAFGVMSTPEIKATDSGEASTSHINITASGSKPTSHMTATTPETAKPPPKEVPS  
FGMLTPALCYLLEEQAARGSCSVEEEMEIDEKQMKGFLDDSERMAFLVSLHLGAAERW  
FILQMEVGEPLSHENKSFLRRSQGIYDSLSEIDILSAVLCHPKQGQKSVRQYATDFLLA  
RHLSWSDAILRTRFLEGLSEAVTTKMGRIFLKVAGSLKELIDRSLYTECQLAEKDSPGN  
SSQVLPTACKRNNEEAMGNELSSQQQTEHQHVSKRCYYLKEHGDPEGLHDHLGQSTGH  
HQAHTNK

>sp|Q9H0H5|RGAP1\_HUMAN Rac GTPase-activating protein 1 OS=Homo sapiens GN=RACGAP1 PE=1  
SV=1

MDTMMNLNVRNLFELVRRVEILSEGNEVQFIQLAKDFEDFRKKWQRTDHELKGYKDLLMK  
AETERSALDVKLKHARNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLSEE  
QKSALAFLNRGQPSSSNAGNKRLSTIDESGSILSDISFDKTDSELDWDSLVKTFKLKKR  
EKRRSTSRQFVDGPPGPVKKTRSIGSAVDQGNESIVAKTTVTVPNDGGPIEAVSTIETVP  
YWTRSRRTGTLPWNDSSTLNSRQLEPRTETDSVGTQPSNGGMRLHDFVSKTVIKPESC  
VPCGKRIFGKLSLKRDCRVVSHPECRDRCPLPCIPTLIGTPVKIGEGMLADFVSQTSP  
MIPSIIVHCVNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS  
LLKDFLRNLKEPLLTFRLNRAFMEAAEITDEDNSIAAMYQAVGELPQANRDTLAFLMIHL  
QRVAQSPHTKMDVANLAKVFGPTIVAHAVPNPDVPTMLQDIKRQPKVVERLLSLPLEYWS  
QFMMVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPVTTPEHQLLKTSSSSLSQRVRS  
TLTKNTPRFGSKSKSATNLGRQGNFFASPMK

>sp|Q8IZJ4|RGDSR\_HUMAN Ral-GDS-related protein OS=Homo sapiens GN=RGL4 PE=2 SV=1

MRKLLTNLPAAAVLSAQVYSAVLQGLWEENVCGTPGRTRVCTALLYGQVCPFDSTDGLR  
TITSLFNWPPENTS VYYQPPQRSSFRIKLAFRNLSWPGLGLEDHQEIVLGQLVLEPNE  
AKPDDPAPRPGQHALTMPALEPAPLLADLGPALPESPAALGPPGYLHSAPGPAPAPGE  
GPPPGTVLEPQSAPESSCPCRGSVKNQPSEELPDMTTFPPRLAEQLTLMDAELFKKVVL  
HECLGCIWQGHLKGNEHMAPTVRATIAHFNRLTNCITTSCLGDHSMRARDRARVVEHWI  
KVARECLSLNNFSSVHVIVSALCSNPIGQLHKTWAGVSSKSMKELKELCKKDTAVKRDLL  
IKAGSFKVATQERNPQRVQMRLRRQKKGVPFPGDFLTELQRLDSAIPDDLGNNTKRSK  
EVRVLQEMQLLQVAAMNYRLRPLEKFVTYFTRMEQLSDKESYKLSQCLEPENP

>sp|Q8WXF3|REL3\_HUMAN Relaxin-3 OS=Homo sapiens GN=RLN3 PE=1 SV=1

MARYMLLLLLAVVVLTGELWPGAEEARAAPYGVRLCGREFIRAVIFTCGGSRRRRSDILAH  
EAMGDTFPDADADEDSLAGELEAMGSSEWLALTKSPQAFYRGRPSWQGTGVLGRSRDV

LAGLSSSCCKWGCSKSEISLC

>sp|Q8WZ73|RFFL\_HUMAN E3 ubiquitin-protein ligase rififylin OS=Homo sapiens GN=RFFL PE=1 SV=1

MWATCCNWFCLDGQPEEVPPPQGARMQAYSNPGYSSFPSTGLEPSCSKSCGAHFANTARK  
QTCLDCKKNFCMTCSSQVGNGPRLCLLCQRFRATAFQREELMKMKVKDLRDYLSLHDIST  
EMCREKEELVLLVLGQQPVISQEDRTRASTLSPDFPEQQAFLTQPHSSMPPTSPNLPSS  
SAQATSVPPAQVQENQQANGHVSQDQEEPVYLESVARVPAEDETQSIDSSEDSFVPGRRAS  
LSDLTDLEDIEGLTVRQLKEILARNFVNYKGCCWKWELMERVTRLYKDQKGLQHLVSGAE  
DQNGGAVPSGLEENLCKICMDSPIDCVLLECGHMTCTKCGKRMNECPICRQYVIRAVHV  
FRS

>sp|075154|RFIP3\_HUMAN Rab11 family-interacting protein 3 OS=Homo sapiens GN=RAB11FIP3 PE=1 SV=1

MASAPPASPPGSEPPGPDPEPGGPDGPAAQLAPGPAELRLGAPVGGPDQPSPGLDEPAP  
GAAADGGARWSAGAPGLEGGPRDPGPSAPPPRSGPRGQLASPDAPGPGPRSEAPLPELD  
PLFSWTEEPCECPASCPEAPFRLQGSSSSHRARGEVDVFSFPAPTAGELALEQGPGS  
PPQPSDLSQTHPLPSEPVGSEDGPRLRAVFDALDGDGDGFVRIEDFIQFATVYGAEQVK  
DLTKYLDPSGLGVISFEDFYQGITAIRNGDPDGQCYGGVASAQDEEPLACPDEFDDFVTY  
EANEVTD SAYMGSESTYSECETFTDEDTSTLVHPELQPEGDADSAGGSAVPSECLDAMEE  
PDHGALLLLPGRPHPHGQSIVITVIGGEEHFEDYGEGSEAEISPETLCNGQLGCSDPAFLT  
PSPTKRLSSKKVARYLHQSGALTMEALDPSELMEGPEEDIADKVVFLERRVLELEKDT  
AATGEQHSRLRQENLQLVHRANALEEQKEQELRACEMVLEETRRQKELLCKMEREKSIE  
IENLQTRLQQLDEENSELRCTPCLKANIERLEEEKQKLLDEIESLTLRLSEEQENKRRM  
GDRLSHERHQFQRDKEATQELIEDLRKQLEHLQLLKLEAEQRRGRSSSMGLQEYHSRARE  
SELEQEVRRLKQDNRLKEQNEELNGQIITLSIQGAKSLFSTAFSESAAEISSVSRDEL  
MEAIQKQEEINFRLQDYIDRIIVAIMETNPSILEVK

>sp|075678|RFPL2\_HUMAN Ret finger protein-like 2 OS=Homo sapiens GN=RFPL2 PE=2 SV=3

MEVAELGFPETAVSQSRICLCAVLCGHWFADMMVIRLSLIRLEGVEGRDPVGGGNLTN  
KRPSCAPSPQDLASQWKLEDRGASSRRVDMALFQEASSCPVCSYLEKPMSELCGCAV  
CLKCINSLQKEPHGEDLLCCSSMVSRKNKIRNRQLERLASHIKELEPKLKKILQMNPR  
MRKFQVDMTLDANTANNFLLISDDLRSVSRGIRIQNRQDLAERFDVSVILGSPRFTCGR  
HCWEVDVGTSTEWDLGVCRESVHRKGRIQLTTELGFWTVSLRDGGRLSATTVPLTFLFVD  
RKLQRVGIFLDMGMQNVSFDAESGSHVYTFRSVSAEPLRPFLAPSVPNGDQGVLSIC  
PLMNSGTTDAPVRPGEAK

>sp|Q8N9B8|RGF1A\_HUMAN Ras-GEF domain-containing family member 1A OS=Homo sapiens GN=RASGEF1A PE=2 SV=2

MPQTSVVFSSILGPSCSGVQPGMGERGGGAGGGSGDLIFQDGHLSGSLEALMEHLVPT  
VDYYPDRTYIFTLLSSRVFMPPHDLLARVGQICVEQKQLEAGPEKAKLSFSKIVQL  
LKEWTEAFPYDFQDEKAMAELKAITHRVTQCDEENGTVKKAIAQMTQSLLSLAARSQLQ  
ELREKLRPAPVDKGPILKTKPPAAQKDILGVCCDPLVLAQQLTHIELDRVSSIYPEDLMQ  
IVSHMDSLNDHRCRGDLTKTYSLEAYDNWFNCLSM LVATEVCRVVKKKHRTMLFFIDV  
ARECFNIGNFNMMMAIISGMNLSVARLKKTWSKVKTAKFDVLEHHMDPSSNFCNYRTAL  
QGATQRSQMANSSREKIVIPVFNLFVKDIYFLHKIHTNHLPNGHINFKKFWEISRQIHEF  
MTWTQVECPFEDKKIQSYLLTAPIYSEEALFVASFESEGPENHMEKDSWKTTLRTLLNR

A

>sp|PODJD1|RGPD2\_HUMAN RANBP2-like and GRIP domain-containing protein 2 OS=Homo sapiens  
GN=RGPD2 PE=2 SV=1

MRRSKAYGERYLASVQGSAPSPGKKLRGFYFAKLYYEAKKEYDLAKKYVCTYLSVQERDPR  
AHRFLGLLYELEENTEKAVECYRRSLELNPPQKDLVLKIAELLCKNDVTDGRAKYWVERA  
AKLFPGPSAITYKLKEHLLDCEGEDGWNKLFDWIQSELYVRPDDVHMNIRLVELYRSNKRL  
KDAVARCHEAERNIALRSSLEWNSCVVQTLKEYLESLLQCLESDKSDWRATNTDLLLAYAN  
LMLLTSTRDVQESRELLESFDSALQSAKSSSLGGNDELSATFLEMKGHFYMHAGSLLLKM  
GQHGNVQWQALSELAALCYVIAFQVPRPKIKLIKGEAGQNLEMMACDRLSQSGHMLLN  
LSRGKQDFLKEVVETFANKSGQSVLYNALFSSQSSKDTSLGSDDIGNIDVQEPELEDA  
RYDVGAIAHNGSLQHLTWLGLQWNSLPALPGIRKWLKQLFHHLQPETSRLTNAPESIC  
ILDLEVFLLGVVYTHLQLKEKCNSHHSSYQPLCLPLPVCKRLCTERQKSWWDVAVCTLIH  
RKAVPGNSAELRLVVQHEINTLRAQEKHGLQPALLVHWAKCLQKMGRGLNSSYDQQEYIG  
RSVHYWKKVLPLLKIKKNSIPEPIDPLFKHFHVSVDIQASEIVEYEEDAHTIFAIDAVH  
GNIEDAVTAFESIHSVSYWNLALIFHRKAEDIENDAVFPEEQEECKNYLRKTRDYLIKI  
IDDSDSLNVVKKLPVPLESVKEMLKSVMQELEDYSEGGPLYKNGSLRNADSEIKHSTPS  
PTKYSLSPSKSYKYSKPTPPRWAEDQNSLRKMICQEVKAITKLNSSKSASRHRWPTENYG  
PDSVPDGYQGSQTFHGAPLTVATTGPSVYYSQSPAYNSQYLLRPAANVTPTKGSSTTEFK  
STKEGFSIAVSADGFKFGISEPGNQEKSEKPLENDTGFQAQDISGQKNGRGVIFGQTSS  
TFTFADVAKSTSGEGFQFGKKDPNFKGFSGAGEKLFSSQCGKMANKANTSGDFEKDDDAC  
KTEDSDDIHFEPVVQMPKVELVTGEEGEKVLYSQGVKLFRFDAEISQWKERGLGNLKIL  
KNEVNGKPRMLMRRDQVLKVCANHWITTTMNLKPLSGSDRAWMWLASDFSDDGDAKLERLA  
AQFKTPELAEFEKQKFEECQRLLLDIPLQTPHKLVDTGRAAKLIQRAEEMKSGLKDFKTF  
LTNDQTKVTEENKSGTGAAGASDTTIKPNPENTGPTLEWDNYDLREDALDDNVSSSSV  
HDSPLASSPVRKNIFRFEDESTTGFNFSFKSALSLSKSPAKLNQSGTSVGTDEESDVTQEE  
ERDGGYFEPVVPDLVEVSSGEENEQVVFSHMAELRYDKDVQWKERGIGDIKILQNY  
DNKQVRIVMRRDQVLKLCANHRITPDMSLQNMKGTERVWWTACDFADGERKVEHLAVRF  
KLQDVADSFKKIFDEAKTAQEKDSLITPHVSRSTPRESPCGKIAVAVLEETTRERTDVI  
QGDDVADAASEVEVSSTSETTTKAVVSPPKFVFGSESVKRIFSEKSNPFAFGNSSATGS  
LFGFSFNAPLKSNDSETSSVAQSGSESKVEPKCELSKNSDIEQSSDSKVKNLSASFPME  
ESSINYTFKTPEKEPPLWHAFTKEELVQKLSSTTKSADQLNGLLRETEATSAVLMEQIK  
LLKSEIRRLERNQEESAANVEHLKNVLLQFIFLKPGSERESLLPVINTMLQLSPEEKGKL  
AAVAQGLQETSIPKKK

>sp|O43182|RHG06\_HUMAN Rho GTPase-activating protein 6 OS=Homo sapiens GN=ARHGAP6 PE=1  
SV=3

MSAQSLLHSVFSCSSPASSSAASAKGFSKRKLQRTRSLDPALIGGCGSDEAGAEGSARGA  
TAGRLYSPSLPAESLGPRLASSSRGPPPRATRLPPPGLCSSFSTPSTPQEKSPSGSFHF  
DYEVLGRGGLKKSMAWDLPSVLAGPASSRSASSILCSSGGGPNGIFASPRRWLQQRKFQ  
SPPDSRGHPYVWVKSEGDFTWNSMSGRSVRLRSVPIQSLSELERARLQEVAFYQLQQDCD  
LSCQITIPKDGQKRKSLRKKLDSLKGKKNKDEKFIQAFGMPLSQVIANDRAYKLKQDL  
QRDEQKDAADFVASLLPFGNKRQNKELSSSNSSLSTSETPNESTSPNTPEPAPRARRRG  
AMSVDSITDLDDNQSRLLLEALQLSLPAEAQSKKEKARDKKLSLNPIYRQVPRLVDSQCQH  
LEKHGLQTVGIFRVGSSKKRVRQLREEFDRGIDVSLEEEHSVHDVAALLKEFLRDMPDPL  
LTRELYTAFINTLLLEPEEQGLTLLIYLLPPCNCDTLHRLQLFLSIVARHADDNISKD  
GQEVGTGNKMTSLNLATIFGPNLLHKQKSSDKEFSVQSSARAEESTAIIVVQKMIENYEA

LFMVPPDLQNEVLISLLETDPDVVDYLLRRKASQSSSPDMLQSEVSFSVGGHSSSTDSNK  
ASSGDISPYDNNSPVLSERSLLAMQEDAAPGGSEKLYRVPQGFMVLVGHLSSSKSRESSPG  
PRLGKDLSEEPFDIWGTWHSTLKSQSGKDPGTMGSSGDI FESSSLRAGPCSLSQGNLSPNW  
PRWQGS PAELSDTQGARRTQAAA PATEGRAHPAVSRACSTPHVQVAGKAERPTARSEQY  
LTLGAHDLSESELDVAGLQSRATPQCQRPHGSGRDDKRPPPPYPGPGKPAAAAAWIQGP  
PEGVETPTDQGGQAAEREQQVTQKKLSSANSLPAGEQDSPRLGDAGWLDWQRERWQIWEL  
LSTDNPDALPETLV

>sp|Q68EM7|RHG17\_HUMAN Rho GTPase-activating protein 17 OS=Homo sapiens GN=ARHGAP17 PE=1  
SV=1

MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRSICHSHKRLVACFQGGHGT  
DAERRHKKLPLTALAQNMQEASTQLED SLLGKMLETCGDAENQLALELSQHEVFVEKEIV  
DPLYGIAEVEIPNIQKQKQLARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEM  
DEAGNKVEQCKDQLAADMYNMAKEGEYGKFFVTLLAQADYHRKALAVLEKTLPEMRAH  
QDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK  
AALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFNLYEEWTQVASVQDQDKKLQDL  
WRTCQKLPPQNFVNFYRLIKFLAKLAQTSNVKMTSPSNIAIVLGPNNLLWARNEGTLAEMA  
AATSVHVAVIEPIIQHADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERK  
RPASMAVMEGDLVKESFGVKLMDFAQHRRGGTLNRKHISPAFQPPLPPTDGSTVVPAGP  
EPPPQSSRAESSGGGTVPSAGILEQGSPGSGSPKPKDPVSAAVPAPGRNNSQIASG  
QNQPQAAAGSHQLSMGQPHNAAGSPHTLRRAVKKPAPAPKPGNPPPGHPGGQSSSGTS  
QHPPSLSPKPTRSPSPPTQHTGQPPGQPSAPSQLSAPRRYSSSLSPIQAPNHPPQPPT  
QATPLMHTKPN SQPPNPMALPSEHGLEQPSHTPPQTPTPPSTPPLGKNPSLPAPQTLA  
GGNPETAQPHAGTLPRPRPVKPRNRPSVPPPPQPPGVHSAGDSSLTNTAPTASKIVTDS  
NSRVSEPHRSIFPEMHSDSASKDVPGRILLDIDNDTESTAL

>sp|Q9P227|RHG23\_HUMAN Rho GTPase-activating protein 23 OS=Homo sapiens GN=ARHGAP23 PE=1  
SV=2

MNGVAFCLVGIPRPEPRPPQLPLGPRDGCSPRRPFPWQGPRTLLLYKSPQDGFGLRLH  
FIVYPPESAVHCSLKEEENGRRGGGSPRYRLEPMDTIFVKNVKEDGPAHRAGLRTGDRL  
VKVNGESVIGKTSQVIALIQNSDDTLELSIMPKDEDILQLAYSQDAYLKGNPYSGEAR  
SIEPPPPICYPRKTYAPPARA STRATMVPEPTSALPSDPRSPA AWSDPGLRVPPAARAH  
DNSSLGMSQPRSPGAFPHLSSEPRTPRAFPEPGSRVPPSRLECQALSHWLSNQVPRRA  
GERRCPAMAPRARSASQDRLEEVAAPRPWPCSTSQDALSQLGQEGWHRARSDDYLSRATR  
SAEALGPGALVSPRFERCGWASQRSSARTPACPTRDLPGPQAPPPSGLQGLDDLGYIGYR  
SYSPSFQRRTGLLHALSFRDSPFGGLPTFNLAQSPASFPEASEPPRVVRPEPSTRALEP  
PAEDRGDEVVL RQKPPTGRKVQLTPARQMNLGFDESPEPEASGRGERLGRKVAPLATTE  
DSLASIPFIDEPTSPSIDLQAKHVPASAVSSAMNSAPVLGTSPSSPTFTFTLGRHYSQD  
CSSIKAGRSSSYLLAITTERSKSCDDGLNTRDEGRVLRRLPNRIPSLRMLRSFFTDSL  
DSWGTSEDADAPSKRHSTSDLSDATFSDIRREGWLYYQILTKKGKKAGSGLRQWKRVYA  
ALRARSLSLSKERREPGPAAAGAAAAGAGEDEAAPVCIGSCLVDISYSETKRRHVFRLLT  
ADFCEYLFQAEDRDDMLGWIRAIRENSRAEGEDPGCANQALISKKLNDYRKVSHSSGPKA  
DSSPKGSRGLGGLKSEFLKQSAARGLRTQDLPAGSKDDSAAPKTPWG INI IKKNKKAAP  
RAFGVRLEECQATENQRVPLIVAACCRIVEARGLESTGIYRVPGNNAVSSSLQEQLNRG  
PGDINLQDERWQDLNVISSLLKSFFRKLEPLFTDDKYNDFIEANRIEDARERMRTLRLKL  
IRDLPGHYETLKFVLVGLKTIADHSEKNKMEPRNLALVFGPTLVRTSEDNMTDMVTHMP

DRYKIVETLIQHSWFFSDEEDKGERTPVGDKEPQAVPNIEYLLPNIGRTVPPGDPGSDS  
TTCSSAKSKGSWAPKKEPYAREMLAISFISAVNRKRKKRREARGLGSSTDDSEQEAHKP  
GAGATAPGTQERPQGGLPGAVAPEAPGRLSPPAAPERPAADTRSIVSGYSTLSTMDRSV  
CSGASGRRAGAGDEADDERSELHVETDTEGAAGAGPGGRLTRRPSFSSHLMPCDTLAR  
RRLARGRPDGEGAGRGGPRAPEPPGSASSSSQESLRPPAAALASRPSRMEALRLRLRGTA  
DDMLAVRLRRPLSPETRRRRSSWRRHTVVVQSPLTDLNFWNEWKELGGGGPPEPAGARAHS  
DNKDSGLSSLESTKARAPSSAASQPPAPGDTGSLQSQPPRRSAASRLHQCL

>sp|Q17R89|RHG44\_HUMAN Rho GTPase-activating protein 44 OS=Homo sapiens GN=ARHGAP44 PE=1  
SV=1

MKKQFNMRQLANQTVGRAEKTEVLSEDLLQVEKRLELVKQVSHSTHKKLTAQLGQQGA  
EADKRSKKLPLTTLAQCLMEGSAILGDDTLLGKMLKLCGETEDKLAQELIHFELQVERDV  
IEPLFLAAVEIPNIQKQRKHLAKLVLDMDSSRTRWQTSKSSGLSSSLQPAGAKADALR  
EEMEEAANRVEICRDQLSADMYSFVAKEIDYANYFQTLIEVQAQYHRKSLTLLQAVLPQI  
KAQQEAWVEKPSFGKPLEEHLTISGREIAFPIEACVTMLLECGMQEEGLFRVAPSASKLK  
KLKAALDCCVVDVQEYSADPHAIAGALKSYLRELPEPLMTFELYDEWIASNVQEQDKKL  
QALWNACEKLPHANHNIRYLKFLSKLSEYQDVNKMTPSNMAIVLGPNNLWPQAEGNIT  
EMMTTVSLQIVGIIIEPIIQHADWFFPGEIEFNITGNYGSPVHVHNANYSSMPSDMDPA  
DRRQPEQARRPLSVATDNMMLEFYKKGDLRKIQSMGVRVMDTNWVARRGSSAGRKVSCAP  
PSMQPPAPPAELAAPLPSPLPEQPLDSPAAPALSPSGLGLQPGPERTSTTKSKELSPGSA  
QKSGPGSSQGTACAGTQPGAQPGAQPGASPSQPPADQSPHTLRKVSKKLAPIPKVPF  
GQPGAMADQSAGQSPVSLSPTPSTSPYGLSYPQGYSLASGQLSPAAAPPLASPSVFT  
STLSKSRPTPKPRQRPTLPPQPPTVNLASSPQSTEAPMLDGMSPGESMSTDLVHFDIP  
SIHIELGSTLRSLPLEHMRRHSVTDKRDSEEESESTAL

>sp|P62745|RHOB\_HUMAN Rho-related GTP-binding protein RhoB OS=Homo sapiens GN=RHOB PE=1  
SV=1

MAAIRKKLVVVGDGACGKTCLLIVFSKDEFPEVYVPTVFENYVADIEVDGKQVELALWDT  
AGQEDYDRLRPLSYPDTDVILMCFSVDSPDSLENIPEKWVPEVKHFCPNVPIILVANKKD  
LRSDEHVRTELARMKQEPVRTDDGRAMAVRIQAYDYLECSAKTKEGVREVFETATRAALQ  
KRYGSQNGCINCKVL

>sp|Q15669|RHOH\_HUMAN Rho-related GTP-binding protein RhoH OS=Homo sapiens GN=RHOH PE=1  
SV=1

MLSSIKCVLVGDSAVGKTSLLVRFTSETFPEAYKPTVYENTGVDVFMGDIQISLGLWDTA  
GNDAFRSIRPLSYQQADVLMCYSVANHNSFLNLKNKWIGEIRSNLPCTPVLVVATQTDQ  
REMGPHRASCVNAMEGKKLAQDVRAKGYLECSALSNRGVQVFECAVRTAVNQARRRNR  
RLFSINECKIF

>sp|Q8NHV9|RHXF1\_HUMAN Rhox homeobox family member 1 OS=Homo sapiens GN=RHOXF1 PE=2 SV=1

MARSLVHDTVFYCLSVYQVKISPTPQLGAASSAEGHVGGAPGLMGNMPEGGVNHENGM  
NRDGGMIPEGGGNQEPRQPPPPPEEPAQAAMEGPQENMQPRTRRTKFTLLQVEELES  
VFRHTQYPDVPTRRELAENLGVTEDKVRVWFKNKRARCRRHQRELMLANELRADPDDCVY  
IVVD

>sp|Q9UJD0|RIMS3\_HUMAN Regulating synaptic membrane exocytosis protein 3 OS=Homo sapiens  
GN=RIMS3 PE=1 SV=1

MFNGEPGPASSGASRNVRRSSISGEICGSQQAGGGAGTTAKKRRSSLGAKMVAIVGLT  
QWSKSTLQLPQEGATKKLRNIRRSTETGIAVEMRSRVTRQGSRESTDGSTNSNSSDGT

FIFPTTRLGAESQFSDFLDGLGPAQIVGRQTLATPPMGDVHIAIMDRSGQLEVEVIEARG  
LTPKPGSKSLPATYIKVYLLENGACLAKKTKMTKKTCPLYQQALLFDEGPQGKVLQVI  
VWGDYGRMDHKCFMGMAQIMLDELDSLAAVTGWYKLFPTSSVADSTLGSLTRRLSQSSLE  
SATSPSCS

>sp|Q06587|RING1\_HUMAN E3 ubiquitin-protein ligase RING1 OS=Homo sapiens GN=RING1 PE=1  
SV=2

MTTPANAQNASKTWELSLYELHRTPEAIMDGTEIAVSPRSLHSELMCPICLDMLKNTMT  
TKECLHRFCSDCIVTALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSREEYEAH  
QDRVLIRLSRLHNQALSSSIEEGLRMQAMHRAQRVRRPIPGSDQTTMSGGEGEPGE  
GDGEDVSSDSAPDSAPGPAPKRPRGGAGGSSVGTGGGGTGGVGGGAGSEDSGDRGGTLG  
GGTLGPPSPPGAPSPPEPGGEIELVFRPHLLVEKGEYCQTRYVKTGNATVDHLSKYLA  
LRIALERRQQEAGEPGPGGGASDTGGPDGCGGEGGGAGGGDGPEEPALPSLEGVSEKQ  
YTIYIAPGGGAFTTLNGSLTLELVNEKFWKVSRLPLELCYAPTKDPK

>sp|P57078|RIPK4\_HUMAN Receptor-interacting serine/threonine-protein kinase 4 OS=Homo  
sapiens GN=RIPK4 PE=1 SV=1

MEGDGGTPWALALLRTFDAGEFTGWEKVGSGGFGQVYKVRHVHWKTWLAIKCSPSLHVDD  
RERMELLEAAKKMEMAKFRYILPVYIGCREPVGLVMEYMETGSLEKLLASEPLPWDLRFR  
IIHETAVGMNFLHCMAPLLHLDLKPANILLDAHVHKISDFGLAKCNGLSHSHDLSMDG  
LFGTIAYLPPERIREKSRLFDTKHDVYSFAIVIWGLTQKKPFADEKNILHIMKVVKGH  
RPELPPVCRARPRACSHLIRLMQRCWQGDPRVRPTFQGNLNGELIRQVLAALLPVTGRW  
RSPGEGFRLESEVIRVTCPLSSPQEITSETEDLCEKPDDEVKETAHDLVKSPPEPRSE  
VVPARLKRAAPTDFNDYSLSELLSQLDSGVSQAVEGPEELSRSSSESKLPSSSGSKRLS  
GVSSVDSAFSSRGSLSLSEFEREPSTSDLGTTDVQKKKLVDIVSGDTSKLMKILQPQDVD  
LALDSGASLLHLAVEAGQEECAKWLLNNANPNLSNRRGSTPLHMAVERRVRGVVELLLA  
RKISVNAKDEDQWTALHFAAQNGDESSTRLLLEKNASVNEVDFEGRTPMHVACQHGQENI  
VRILLRRGVDSVLQGDALPLHYAAWQGHLPVKKLLAKQPGVSVNAQTLDGRTPHLAA  
QRGHYRVARILIDLCSDVNVCSLLAQTPLVHAAETGHTSTARLLLHRGAGKEAMTSDGYT  
ALHLAARNGLATVKLLVEEKADVLARGPLNQTAHLAAAHHSEVVEELVSADVIDLFD  
EQGLSALHLAAQGRHAQTVETLLRHGAHINLSLKFQGGHGPAATLLRRSKT

>sp|Q96K30|RITA1\_HUMAN RBPJ-interacting and tubulin-associated protein 1 OS=Homo sapiens  
GN=RITA1 PE=1 SV=1

MKTPVELAVSGMQTLGLQHRCGGYRVKARTSYVDETLFGSPAGTRTPPDFDPPWVEKA  
NRTRGVGKEASKALGAKGSCETTPSRGSTPTLTTPRKKNKYRPISTPSYCDSESLFGSRSE  
GASFGAPRMAKGDAAKLRALLWTPPTPRGSHSPRPREAPLRAIHPAGPSKTEPGAADS  
QKLSMGLHSSRPLKRGLSHSLTHLNPSTGHPATSAPHTNGPQDLRPSTSGVTFRSPLV  
TSRARSVSISVPSTPRRGATQKPKPPWK

>sp|P13489|RINI\_HUMAN Ribonuclease inhibitor OS=Homo sapiens GN=RNH1 PE=1 SV=2

MSLDIQSLDIQCEELSDARWAELLPLLQQCQVVRLDDCGLTEARCKDISSALRVNPALAE  
LNLRSNELGDVGVCVLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHL  
SDNLLGDAGLQLLCEGLLDPCRLKLEKLECYCSLSAASCEPLASVLRAKPDFKELTVSNN  
DINEAGVRVLCQGLKDSPCQLEALKLESCGVTSDNCRDLCGIVASKASLRELALGSNKL  
DVGMAELCPGLLHPSRLRTLWIWECGITAKGCGDLCRVLRAKESLKELSLAGNELGDEG  
ARLLCETLLEPGCQLESWVKSCSFTAACCSHFSSVLAQNRFLLELQISNNRLEDAGVRE  
LCQGLGQPGSVLRVLWLADCDVSDSSCSSLAATLLANHSLRELDLSNNCLGDAGILQLVE



SVRQPGCLLEQLVLYDIYWSEEMEDRLQALEKDKPSLRVIS

>sp|O14730|RIOK3\_HUMAN Serine/threonine-protein kinase RIO3 OS=Homo sapiens GN=RIOK3 PE=1 SV=2

MDLVGVASPEPGTAAAWGSPKCPWAIPQNTISCSLADVMSEQLAKELQLEEEAAVFPEVA  
VAEGPFITGENIDTSSDLMLAQMLQMEYDREYDAQLRREEKKFNGDSKVSISFENYRKVH  
PYEDSDSSEDEVWQDTRDDPYRPAKPVPTPKKGFIGKGKDITTKHDEVVCGRKNTARME  
NFAPEFQVGDGIGMDLKS NHVFNALQKHAYSEERRSARLHEKKEHSTA EKAVDPKTRLL  
MYKMVNSGMLLETITGCI STGKESVVFHAYGGSMED EKEDSKVIPTECAIKVFKTTLNEFK  
NRDKYIKDDFRFKDRFSKLNPRKIIRMWAEKEMHNLARMQRAGIPCPTVLLKKHILVMS  
FIGHDQVPAPKLKEVKLNSEEMKEAAYYQTLHLMRQLYHECTLVHADLSEYNMLWHAGKVW  
LIDVSQSVEPTHPGLEFLFRDCRNVSQFFQKGGVKEALSERELFNAVSGLNITADNEAD  
FLAEIEALEKMNEHDHVQKNRKAASFLKDDGDPPLLYDE

>sp|Q13546|RIPK1\_HUMAN Receptor-interacting serine/threonine-protein kinase 1 OS=Homo sapiens GN=RIPK1 PE=1 SV=3

MQPDMSLNVIKMKSSDFLESAELDSGGFGKVS LCFHRTQGLMIMKTVYKGPNCIEHNEAL  
LEEAKMMNRLRHSRVVKLLGV IIEEGKYS L VMEYMEKGNLMHVLKAEMSTPLSVKGRIIL  
EIIEGMCYLHGKGV I HKDLKPENILVDNDFHIKIADLGLASFKMWSKLNNEEHNELREVD  
GTAKKNGGTLYYMAPEHLNDVNAKPTEKSDVYSFAVVLW AIFANKEPYENAICEQQLIMC  
IKSGNRPDVDDITEYCPREI ISLMKLCWEANPEARPTFPGIEEKFRPFYLSQLEESVEED  
VKSLKKEYSNENAVVKRMQSLQLDCVAVPSSRSNSATEQPGSLHSSQGLGMGPVEESWFA  
PSLEHPQEENEPSLQSKLQDEANYHLYGSRMDRQTKQPRQNVAYNREEERRRRVSHDPF  
AQRPYENFQNTGKGTAYSSAASHGNAVHQPSGLTSQPQVLYQNNGLYSSHGFGTRPLD  
PGTAGPRVWYRPIPSHMPSLHNIPVPETNYLGNTPTMPFSSLPPTDESIKYTIYNSTGIQ  
IGAYNYMEIGGTSSSLDSTNTNFKEEPAAKYQAIFDNTTSLTDKHLDP IRENLGKHWKN  
CARKLGFTQSQIDEIDHDYERDGLKEKVYQMLQKWMREGIKGATVGKLAQALHQCSRID  
LLSSLIYVSQN

>sp|Q5TAB7|RIPP2\_HUMAN Protein ripply2 OS=Homo sapiens GN=RIPPLY2 PE=1 SV=1

MENAGGAEGTESGAAACAATDGPTRRAGADSGYAGFWRPWVDAGGKKEEETPNHAAEAMP  
DGPGMTAASGKLYQFRHPVRLFWPKSKCYDYLYQEA EALLKNFPIQATISFYEDSDSEDE  
IEDLTCEN

>sp|Q99578|RIT2\_HUMAN GTP-binding protein Rit2 OS=Homo sapiens GN=RIT2 PE=1 SV=1

MEVENEASCSPGSASGGSREYKVVMLGAGGVGKSAMTMQFISHQFPDYHDPTIEDAYKTQ  
VRIDNEPAYLDILDTAGQAEFTAMREQYMRGGEGFI ICYSVTDRQSFQEAAKFELIFQV  
RHTYEIPLVLVG NKIDLEQFRQVSTEEGLSLAQEYNCGFFETS AALRFCIDDAFHGLVRE  
IRKKESMPSLMEKKLKRKDSLWKKLKGSLKKKRENMT

>sp|Q15835|RK\_HUMAN Rhodopsin kinase OS=Homo sapiens GN=GRK1 PE=1 SV=1

MDFGSL ETVVANS AFIAARGSF DGSSSQPSRDKKYLA KLKPPLSKCESLRDSLSLEFES  
VCLEQPIGKKLFQQLQSAEKHLPAL ELWKDIEDYDTADNDLQPQKAQTILAQYLDPPQAK  
LFCSFLDEGIVAKFKEGPVEIQDGLFQPLLQATLAHLGQAPFQEYLGSLYFLRFLQWKWL  
EAQPMGEDWFLDFRVLGKGGEVGSACQMKATGKLYACKKLNKKRLKKRKG YQGAMVEKK  
ILMKVHSRFIVSLAYAFETKADLCLVMTIMNGGDIRYHIYVNEENPGFPEPRALFYTAQ  
IICGLEHLHQRRIVYRDLKPENVLLDNDGNVRISDLGLAVELLDGQSKTKGYAGTPGFMA  
PELLQGEEYDFSVDYFALGVTL YEMIAARGPFRARGEKVENKELKHRI ISEPVKYPDKFS  
QASKDFCEALLEKDEPKRLGFRDETCDKLRAHPLFKDLNWRQLEAGMLMPPFIPDSKTVY

AKDIQDVGAFTVKGVAFDKTDTEFFQEFATGNCPIPWQEEMIETGIFGELNVWRSDGQM  
PDDMKGISGGSSSSSSKSGMCLVS

>sp|Q07020|RL18\_HUMAN 60S ribosomal protein L18 OS=Homo sapiens GN=RPL18 PE=1 SV=2

MGVDIRHNKDRKVRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPP  
LSLSRMIRKMKLPGRENKTAVVVGITDDVVRVQEVPKLKVLCALRVTSRARSRLRAGGKI  
LTFDQLALDSPKGCCTVLLSGPRKGREYRHF GKAPGTPHSHTKPYVRSKGRKFERARGR  
RASRGYKN

>sp|Q9H4K1|RIBC2\_HUMAN RIB43A-like with coiled-coils protein 2 OS=Homo sapiens GN=RIBC2  
PE=1 SV=1

MRQNDKIMCILENRKKRDRKNLCRAINDFQQSFQKPETRREFDLSDPLALKKDLPARQSD  
NDVRNTISGMQKFMGEDLNFHERKKFQEEQREWSLQQQREWKNARAEQKCAEALYTETR  
LQFDETAHLQKLESTTRKAVCASVKDFNKSQAIESVERKKQEKQEQEDNLAEITNLLR  
GDLLSENPPQAASSFGPHRVVPDRWKGMTQEQLQIRLVQKQIQEKLRLQEEKRQRDL  
WDRRIQGARATLLFERQQWRRQRDLRRALDSSNLSLAKEQHLQKKYMNEVYTNQPTGDY  
FTQFNTGSR

>sp|Q4ADV7|RIC1\_HUMAN RAB6A-GEF complex partner protein 1 OS=Homo sapiens GN=RIC1 PE=1  
SV=2

MYFLSGWPKRLLCPLGSPAEAPFHVQSDPQRAFFAVLAAARLSIWYSRPSVLIVTYKEPA  
KSSTQFGSYKQAEWRPDSTMI AVSTANGYILFFHITSTRGDKYLYEPVYPKGSPQMKGTP  
HFKEEQCAPALNLEMRKILD LQAPIMSLQSVLEDLLVATSDGLLHLIHWEGMTNGRKAIN  
LCTVPFVSDLQSSRVGSFLGFTDVHIRDMEYCATLDGFAVFN DGKVGFI TPVSSRF TAE  
QLHGVWPQDVVDGTCVAVNNKYRLMAFGCVSGSVQVYTIDNSTGAMLLSHKLELTAKQYP  
DIWNKTGAVKL MRWSPDNSVVI TW EYGGLSLWSVFGAQLICTLGGDFAYRSDGTTKKDPL  
KINMSWGAEGYHLWVISGFGSQNTEIESDLRSVVKQPSILLFQFIKSVLTVNPCMSNQE  
QVLLQGEDRLYLNCGEASQTQNPSSSTHSEHKPSREKSPFADGGLESQGLSTLLGHRHW  
HVVQISSTYLESNWP IRFSAIDKLGNIAVVGKFGFAHYSLLTKKWKLFGNITQE QNMIV  
TGGLAWWNDFMVLACYNINDRQEELRVYLRTSNLDNAFAHVTKAQAETLLLSVFQDMVIV  
FRADCSICLYSIERKSDGPNTTAGIQVLQEVSMSRYIPHPFLVSVTLTSVSTENGITLK  
MPQQARGAESIMLNLAGQLIMMRDRSGPQIREKDSNPNNQRKLLPFCPPVLAQSVENV  
WTTCRANKQKRHLLEALWLSGGAGMKVWLPLFPRDHRKPHSFLSQRIMLPFHINIYPLA  
VLFE DALVLGAVNDTLLYDSLYTRNNAREQLEVLFPFCVVERTSQIYLHHILRQLLVRL  
GEQALLLAQSCATLPYFPHVLELMLHEVLEEEATSREPIPDLLPTVAKFITEFPLFLQT  
VVHCARKTEYALWNYLFAAVGNPKDLFEELMAQDLDTAASYLIILQNMEVPAVSRQHAT  
LLFNTALEQGWDLCRHMIRFLKAIGSGESETPPSTPTAQEPSSSGGFEFFRNRSISLSQ  
SAENVPASKFSLQKTL SMPSGPSGKRWSKSDCAENMYIDMMLWRHARRLLEDVRLKDLG  
CFAAQLGFELISWLCKERTRAARVDNFVIALKRLHKDFLWPLPIIPASSISSPFKNGKYR  
TVGEQLLKSQSADPFLNLEMDAGISNIQRSQSWLSNIGPTHHEIDTASSHGPMQDAFLS  
PLSNKGDECSIGSATDLTESSMVDGDWMTVDENFSTLSLTQSELEHISMELASKGPHKS  
QVQLRYLLHIFMEAGCLDWCIVIGLILRESSIINQILVITQSSEVDGEMLQNIKTGLHAV  
DRWASTDCPGYKPFNLNIKPQLQKLSEITEEQVPDAFQPI TMGKTPEQTS PRAEESRGS  
SSHGSIPQGEVGSSNMVSRKEEDTAQAE EEPFQDGT YDCSVS

>sp|Q9NPQ8|RIC8A\_HUMAN Synembryn-A OS=Homo sapiens GN=RIC8A PE=1 SV=3

MEPRAVAEAVETGEEDVIMEALRSYNQEHSQSFTFDDAQEDRKRLAELLVSVLEQGLPP  
SHRVIWLQSVRILSRDRNCLDPFTSRQSLQALACYADISVSEGSVPESADMDVVLES LKC

LCNLVLSSPVAQMLAAEARLVVKLTERVGLYRERSFPHDVQFFDLRLFLLTALRTDVRQ  
QLFQELKGVRLTDTLELTLGVTPGNPPPTLLPSQETERAMEILKVLFNITLDSIKGEV  
DEEDAALYRHLGTLLRHCVMIAATAGDRTEEFHGHAVNLLGNLPLKCLDVLLTLEPHGDST  
EFMGVNMDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTECARMHRPARKFLKAQVLPPL  
RDVTRTRPEVGEMLRNKLVRMLTHLDTDVKRVAEEFLFVLCSESVPRFIKYTGYNAAAGLL  
AAGRLMAGGRPEGQYSEDEDTDEYKEAKASINPVTGRVEEKPPNPMEGMTEEQKEHEA  
MKLVTMFDKLSRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSDPDSDPD

>sp|Q5UIP0|RIF1\_HUMAN Telomere-associated protein RIF1 OS=Homo sapiens GN=RIF1 PE=1 SV=2

MTARGQSPLAPLLETLEDPSASHGGQTDAYLTLTSRMTGEEGKEVITEIEKKLPRLYKVL  
KTHISSQNSELSSAALQALGFCLYNPKITSELSEANALELLSKLNDTIKNSDKNVRTRAL  
WVISKQTFPSEVVGKMVSSIIDSLEILFNKGETHSAVVDFEALNVIVRLIEQAPIQMGE  
AVRWAKLVIPLVHSAQKVHLRGATALEMGMPLLLQKQEIASITEQLMTTKLISELQKL  
FMSKNETYVLKLWPLFVKLLGRTLHRSGSFINSLLQLEELGFRSGAPMIKKIAFIAWKS  
IDNFALNPDILCSAKRLKLLMQPLSSIHVRTETLALTKLEVWYLLMRLGPHLPANFEQV  
CVPLIQSTISIDSNASPGNSCHVATSPGLNPMPVHKGASSPYGAPGTPRMNLSSNLGG  
MATIPSIQLLGLEMLLHFLLGPEALSFQKQKLVLSLEPLEHPLISSPSFFSKHANTLIT  
AVHDSFVAVGKDAPDVVSAIWKELISLVKSVTESGNKKEKPGSEVLTLLLKSLEIVKS  
EVFPVSKTLVLEITIKGLPQKVLGSPAYQVANMDILNGTPALFLIQLIFNNFLECGVSD  
ERFFLSLESVLCVSGPTSPLAFSDSVLNVINQNAKQLENKEHLWKMWSVIVTPLTELI  
NQTNEVNQGDALHNFSAIYGALTLPVNHIFSEQRFPVATMTLLRTWSELYRAFARCAA  
LVATAEENLCCEELSSKIMSSLEDEGFSNLLFVDRIIYIITVMVDCIDFSPYNIKYQPKV  
KSPQRPSDWSKKKNEPLGKLTSLFKLIVKVIYSFHTLSFKEAHSDTLFTIGNSITGISS  
VLGHISLPSMIRKIFATLTRPLALFYENSKLDEVPKVYSCLNNKLEKLLGEIIACLQFSY  
TGTYDSELLEQLSPLLCIIFLHKNKQIRKQSAQFWNATFAKVMMLVYPEELKPVLTQAKQ  
KFLLLPLGLETVEMMESSGPYSDGTENSQNLVKISGMERKSNGKRDSFLAQTKNKKENM  
KPAAKLKLESSSLKVKEILLLEEKSTDFVFIPEEGKDAKERILTDHQKEVLKTKRCDIP  
AMYNLDVVSQDTLFTQYSQEEPMEIPTLTRPKEDSKMMITEEQMDSDIVIPQDVTEDCG  
MAEHLEKSSLSNNECGSLDKTSPEMSNSNNDERKKALISSRKTSTECASSTENSFVVSS  
SVSNTTVAGTPPYPTSRRTFITLEKFDGSENRPFSPLNNISSTVTVKNQETMIKTD  
FLPKAKQREGTFKSDSEKIVNGTKRSSRRAGKAEQTGNKRKSKPLMRSEPEKNTEESVEG  
IVVLENNPPGLLNQTECVSDNQVHLESTMEHDNTKLKAATVENAVLLETNTVEEKNEI  
NLESKENTPPVVISADQMVNEDSQVQITPNQKTLRRSSRRRSEVVESTTESQDKENSHQK  
KERRKEEEKPLQKSPLHIKDDVLPKQKLIAEQTLQENLIEKGSNLHEKTLGETSANAETE  
QNKKKADPENIKSEGDTQDIVDKSSEKLVGRGRTRYQTRRASQGLSSIENSESDSSEAK  
EEGSRKKRSGKWNKSNESVDIQDQEEKVVKQECIKAENQSHDYKATSEEDVSIKSPICE  
KQDESNTVICQDSTVTSDLLQVPDDLPNVCEEKNETSKYAEYSFTSLPVPESNLRTRNAI  
KRLHKRDSFDNCSLGESSKIGISDISSLEKTFQTELCQHKRSRRVRRSKGCDCCGEKSQ  
PQEKSLIGLKNTEENDVEISETKKADVQAPVSPSETSQANPYSEGQFLDEHHSVNFHLGL  
KEDNDTINDSLIVSETKSKENTMQESLPSGIVNFREEICDMDSSEAMSLESQESPNENFK  
TVGPCLGDSKNVSQESLETKEEKEETPKMELSLENVTVEGNACKVTESNLEKAKTMELN  
VGNEASFHGQERTKTGISEEAAIEENKRNDSEADTAKLNAKEVATEEFNSDISLSDNTT  
PVKLNQATEISEQTAAGELDGGNDVSDLHSSEETNTKMKNNEEMMIGEAMAETGHDGETE  
NEGITTKTSKPDEAETNMLTAEMDNFVCDTVEMSTEEGIIDANKTETNTEYSKSEEKLDN  
NQVMESDILQEDHHTSQKVEEPSQCLASGTAISELIEDNNASPKLRELDPSLVSAND

SPSGMQTRCVWSPLASPSTSILKRGLKRSQEDEISSPVNKVRRVSFADPIYQAGLADDID  
RRCSIVRSHSSNSSPIGKSVKTSPTTQSKHNTTSAKGFLSPGSRSPKFSSKKCLISEMA  
KESIPCPTESVYPPLVNCVAPVDIILPQITSNMWARGLGQLIRAKNIKTIGDLSTLTASE  
IKTLPIRSPKVSNVKKALRIYHEQVVKTRGLEEIPVFDISEKTVNGIENKSLSPDEERLV  
SDIIDPVALEIPLSKNLLAQISALALQLDSEDLHNYSGSQLFEMHEKLSCMANSVIKNLQ  
SRWRSPSHENSI

>sp|Q8IXN7|RIMKA\_HUMAN N-acetylasparylglutamate synthase A OS=Homo sapiens GN=RIMKLA  
PE=2 SV=2

MCSQLWFLTDRRIREDYPQVQILRALRQRCSEQDVRFRVFLMDQIAVTIVGGHLGLQLNQ  
KALTTFPDVVLVRVPTPSVQSDSDITVLRHLEKLGCRNVNRPQSILNCINKFWTFQELAG  
HGVMPMDTFSYGGHEDFSKMIDEAEPLGYPVVVKSTRGHRGKAVFLARDKHHLSDICHLI  
RHDVPYLFQKYVKESHGKDIRVVVVGQVIGSMLRCSTDGRMQSNCSLGGVGKCPLTEQ  
GKQLAIQVSNILGMDFCGIDLLIMDDGSFVVCANANVGFLAFDQACNLDVGGIIADYTM  
SLLPNRQTGKMAVLPGLSSPREKNEPDGCASAAQGAESVYTINSGSTSESEPELGEIRD  
SSASTMGAPPSMLPEPGYNINNRIASELKLK

>sp|Q9H426|RIMS4\_HUMAN Regulating synaptic membrane exocytosis protein 4 OS=Homo sapiens  
GN=RIMS4 PE=1 SV=3

MERSQSRLSLSASFEALAIYFPCMNSFDDDEDAGDSRRLKGAIQRSTETGLAVEMPSRTL  
QASHESIEDSMNSYGSEGNLNYGGVCLASDAQFSDFLGSMGPAQFVGRQTLATTPMGDVE  
IGLQERNQGQLEVDIIQARGLTAKPGSKTLPAAAYIKAYLLENGICIAKKKTKVARKSLDPL  
YNQVLLFPESPQGVQLQVIVWGNVGRMERKQFMGVARVLEELDLTTLAVGWYKLFPTSS  
MVDPATGPLLQASQLSLESTVGPCGERS

>sp|Q6NUQ1|RINT1\_HUMAN RAD50-interacting protein 1 OS=Homo sapiens GN=RINT1 PE=1 SV=1

MLPAGEIGASPAAPCCSESGDERKNLEEKSDINVTVLIGSKQVSEGTNDGLPSYVSAFI  
EKEVGNDLKSLLDKLIEQRTVSKMQLEEQLTISSEIPKRIRSALKNAEESKQFLNQF  
LEQETHLFSAINSHLLTAQPMDDLGTMISQIEEIERHLAYLKWISQIEELSDNIQQYLM  
TNNVPEAASTLVSMALDIKLQESSCTHLLGFMRAVTKFHHKILDKLTSDFEEILAQLH  
WPFIAPPQSQTVGLSRPASAPEIYSYLETLFCQLLKLQTSDELLTEPKQLPEKYSLPASP  
SVILPIQVMLTPLQKRFRYHFRGNRQTNVLSKPEWYLAQVLMWIGNHTEFLDEKIQPILD  
KVGSLVNARLEFSRGLMMLVLEKLATDIPCLLYDDNLFCHLVDEVLLFERELHSHVHGYPG  
TFASCMHILSEETCFQRWLTVERKFALQKMSMLSSEAAWVSQYKDITDVDEMKVPCAE  
TFMTLLLVITDRYKNLPTASRKLQFLELQKDLVDDFRIRLTQVMKEETRASLGFRYCAIL  
NAVNYISTVLADWADNVFFLQLQQAALVFAENNTLSKLQLGQLASMESSVFDDMINLLE  
RLKHDMLTRQVDHVFREVKDAAKLYKKERWLSLPSQSEQAVMSLSSACPLLLTLRDHLL  
QLEQQLCFSLFKIFWQMLVEKLDVYIYQEIILANHFNEGGAQLQFDMTRNLFPLFSHYC  
KRPENYFKHIKEACIVLNLNVGSALLKDVLSASGQLPATAALNEVGIIKLAQQDVEIL  
LNLRTNWPNTGK

>sp|Q9BRS2|RIOK1\_HUMAN Serine/threonine-protein kinase RIO1 OS=Homo sapiens GN=RIOK1 PE=1  
SV=2

MDYRLLMSRVVPGQFDDADSSSENRLKTVKEKDDILFEDLQDNVNENGEIEDEEE  
EGYDDDDDDWDWDEGVGKLAKGYVWNGSNPQANRQTSDESSAKMSTPADKVLKRFENKI  
NLDKLNVTDSVINKVTEKSRQKEADMYRIKDKADRATVEQVLDPRTRMILFKMLTRGIIT  
EINGCISTGKEANVYHASTANGESRAIKIYKTSILVFKDRDKYVSGEFRFRHGYCKGNPR  
KMKVTWAEKEMRNLI RLNTAEIPCPEPIMLRSHVLVMSFIGKDDMPAPLLKNVQLSESKA

RELYLQVIQYMRMYQDARLVHADLSEFNMLYHGGGVYIIDVSQSVEHDHPHALEFLRKD  
CANVNDFFMRHSVAVMTVRELFEFVTDPSTHENMDAYLSKAMEIASQRTKEERSSQDHV  
DEEVFKRAYIPRTLNEVKNYERMDIIMKLKEEDMAMNAQQDNILYQTVTGLKKDLSGVQ  
KVPALLENQVEERTCSDSEDIGSSECDTDSEEQGDHARPKKHTTDPDIDKKERKKMVKE  
AQREKRKNKIPKHVKKRKEKTAKTKKGK

>sp|Q9Y572|RIPK3\_HUMAN Receptor-interacting serine/threonine-protein kinase 3 OS=Homo sapiens GN=RIPK3 PE=1 SV=2

MSCVKLWPSGAPAPLVSIIELENQELVGKGGFGTVFRAQHRKWGYDVAVKIVNSKAISRE  
VKAMASLDNEFVLRLEGVIEKVNWDQDPKPALVTKFMENGSLSGLLQSQCPRPWPLLCRL  
LKEVVLGMFYLDQNPVLLHRDLKPSNVLLDPELVKLADFGSTFGGSGSGTGSGEFG  
GTLGYLAPELFVNVNRKASTADVVSFGILMWAVLAGREVELPTEPSLVYEAVCNRQNRP  
SLAELPQAGPETPGLGLKELMQLCWSSEPKDRPSFQECLPKTDEVFQMVENNMAAVST  
VKDFLSQLRSSNRRFSIPESGQGGTEMDGFRRTIENQHSRNDVMVSEWLNKLNLEPPSS  
VPKKCPSLTKRSRAQEEQVPQAWTAGTSSDSMAQPPQTPETSTFRNQMPSPSTGTGTPSPG  
PRGNQGAERQGMNWSRCTPEPNPVTGRPLVNIYNCQVQVGDNNYLTMQQTALPTWG  
PSGKGRGLQHPPVGSQEGPKDPEAWSRPQGWYNHSGK

>sp|Q0D2K3|RIP1\_HUMAN Protein ripply1 OS=Homo sapiens GN=RIPPLY1 PE=1 SV=1

MDSAACAAAATPVPALALALAPDLAQAPLALPGLLSPCLSSGQEVNGSERGTCLWRPW  
LSSTNDSRQMRKLVDLAAGGATAAEVTKAESKFHHHPVRLFWPKSRSDYLYSAGEILLQ  
NFPVQATINLYEDSDSEEEEEDEEEDDEEEK

>sp|P62913|RL11\_HUMAN 60S ribosomal protein L11 OS=Homo sapiens GN=RPL11 PE=1 SV=2

MAQDQGEKENPMRELRIKLCNICVGESGDRLTRAAKVLEQLTGQTPVFSKARYTVRSF  
GIRRNEKIAVHCTVRGAKAEIILEKGLKVREYELRKNNFSDTGNFGFGIQEHIDLGIKYD  
PSIGIYGLDFYVVLGRPGFSIADKKRRTGCIGAKHRISKEEAMRWFQKYDGIILPGK

>sp|P61313|RL15\_HUMAN 60S ribosomal protein L15 OS=Homo sapiens GN=RPL15 PE=1 SV=2

MGAYKYIQELWRKKQSDVMRFLRVRCWQYRQLSALHRAPRPTRPDKARRLGYKAKQGYV  
IYRIRVRRGGRKRPVPGATYGKPVHHGVNQLKFARSLQSVAEERAGRHCALRVLNSYW  
VGEDSTYKFFEVLIDPFHKAIRNPDTQWITKPVHKKHREMRGLTSAGRKSRLGKGHKF  
HHTIGGSRRAAWRRRNTLQLHRYR

>sp|Q02543|RL18A\_HUMAN 60S ribosomal protein L18a OS=Homo sapiens GN=RPL18A PE=1 SV=2

MKASGTLREYKVVGRCPLTPKCHTPPLYMRIFAPNHVVAKSRLFVFSQLKMKKSSGE  
IVYCGQVFEKSPLRVKNFGIWLRYDSRSGTHMYREYRDLTAGAVTQCYRDMGARHRAR  
AHSIQIMKVEEIAASKCRRPAVKQFHDSKIKFPLPHRVLRQHKPRFTTKRPNTFF

>sp|O76021|RL1D1\_HUMAN Ribosomal L1 domain-containing protein 1 OS=Homo sapiens GN=RSL1D1 PE=1 SV=3

MEDSASASLSSAAATGTSTSTPAAPTARKQLDKEQVRKAVDALLTHCKSRKNNGYGLLLNE  
NESLFLMVVLWKIPSKELRVRLTLPHSIRSDSEDICLFTKDEPNSTPEKTEQFYRKLLNK  
HGIKTVSQIISLQTLKKEYKSYEAKLRLLSSFDFFLTDARIRRLPSLIGRHFYQRKKVP  
VSVNLLSKNLSREINDCIGGTVLNISKSGSCSAIRIGHVGMQIEHIIENIVAVTKGLSEK  
LPEKWESVKLLFVKTEKSAALPIFSSFVSNWDEATKRSLLNKKKKEARRKRERNFEKQK  
ERKKKRQQAARTASVLSKDDVAPESGDTTVKKPESKKEQTPEHGKKKRGRGKAQVKATNE  
SEDEIPQLVPIGKTPANEKVEIQKHATGKKSPAKSPNPSTPRGKKRKALPASETPKAAE  
SETPGKSPEKKPKIKEEAVKEKSPSLGKKDARQTPKKPEAKFFTTPSKSVRKASHTPKKW  
PKKPKVPQST

>sp|P50914|RL14\_HUMAN 60S ribosomal protein L14 OS=Homo sapiens GN=RPL14 PE=1 SV=4  
MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMLTDF  
ILKFPHSAHQKYVRQAWQKADINTKWAATRWAKKIEARERKAKMTDFDRFKVMKAKKMRN  
RIIKNEVKKLQKAALLKASPKKAPGKTGTAAAAAATAASKKAPAQKVPA  
QKATGQKAAPAPKAQKGQKAPAKAPKASGKKA

>sp|P27635|RL10\_HUMAN 60S ribosomal protein L10 OS=Homo sapiens GN=RPL10 PE=1 SV=4  
MGRRPARYRYCKNKPYPKSRFCRGVPAKIRIFDLGRKKAKVDEFPLCGHMSDEYEQL  
SSEALEAARICANKYMKSCGKDFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFG  
KPQGTVARVHIGQVIMSIRTKLQNEHVIEALRRAKFKFPGRQKIHISKKWGFTKFNAD  
FEDMVAEKRLIPDGGCVKIIPNRGPLDKWRALHS

>sp|P26373|RL13\_HUMAN 60S ribosomal protein L13 OS=Homo sapiens GN=RPL13 PE=1 SV=4  
MAPSRNGMVLKPHFHKDWQRRVATWFNQPAKIRRRKARQAKARRIAPRPASGPPIRPIVR  
CPTVRYHTKVRAGRGSLEELRVAGIHKVARTIGISVDPRRRNKSTESLQANVQRLKEY  
RSKLILFPRKPSAPKKGDSAEELKLATQLTGPVMPVRNVYKKEKARVITEEKNFKAF  
SLRMARANARLFGIRAKRAKEAEQDVEKKK

>sp|P35268|RL22\_HUMAN 60S ribosomal protein L22 OS=Homo sapiens GN=RPL22 PE=1 SV=2  
MAPVKKLVVKGKKKKQVLKFTLDCTHPVEDGIMDAANFEQFLQERIKVNGKAGNLGGGV  
VTIERSKSKITVTSEVPFSKRYLYLTKKYLKKNLRDWRVANSKESYELRYFQINQD  
EEEEDEED

>sp|P83731|RL24\_HUMAN 60S ribosomal protein L24 OS=Homo sapiens GN=RPL24 PE=1 SV=1  
MKVELCSFSGYKIYPGHRRYARTDGKVFQFLNAKCESAFLSKRNPRQINWTVLYRRKHK  
KGQSEEIQKKRTRRAVKFQRAITGASLADIMAKRNQKPEVRKAQREAIIRAAKEAKKAKQ  
ASKKTAMAAAKAPTKAAPKQKIVKPVKVSAPRVGGKR

>sp|Q5VT52|RPD2\_HUMAN Regulation of nuclear pre-mRNA domain-containing protein 2 OS=Homo sapiens GN=RPD2 PE=1 SV=1

MAAGGGGGSSKASSSSASSAGALESSLDKRFQSVTNTMESIQGLSSWCIENTKHHSTIVY  
HWMKWLRRSAYPHRLNLFYLANDVIQNCRKNAIIFRESFADVLPEAAALVKDPSVSKSV  
ERIFKIWEDRNVYPEEMIVALREALSTTFKTQKQLKENLNKQPNKQWKKSQTSTNPKAAL  
KSKIVAEFRSQALIEELLYKRSEDQIELKEQLSTMRVDCSTETLCLDKDTGGKKFS  
KEFEEASSKLEEFVNLGDKQVKNGPSLTEALENAGIFYEAQYKEVKVANAYKTFANRVN  
NLKKKLDQLKSTLPDESPVSPSMDAPSPGTGSESPFQMGGEESQSPTMESEKSATPE  
PVTNDRDVEDMELSDVEDDGSKIIVEDRKEKPAEKSAVSTSVPTKPTENISKASSCTPVP  
VTMTATPPLPKPVNTSLSPSPALALPNLANVDLAKISSILSSLTSMKNTGVSPASRPSP  
GTPTSPSNLTSGLKTPAPATTTSHNPLANILSKVEITPESILSALSKTQTSAPALQGLS  
SLLQSVTGNPVPASEAASQSTSASPANTTVSTIKGRNLPSSAQPFIPKSFNYSNPSSTSE  
VSSTSASKASIGQSPGLPSTTFKLPSNSLGFTATHNTSPAAPPTEVTICQSSEVSKPKLE  
SESTSPSLEMKIHNFLKGNPGFSGNLNIPILSSLGSSAPSESHPSDFQRGPTSTSIDNI  
DGTPVRDERSGTPTQDEEMDKPTSSSVDTMSLLSKIIISPGSSTPSSTRPPPGRDESYPR  
ELNSVSTYRPFGLGSESPYKQPSDGMERPSSLMDSSQEFYPDTSFQEDDYRDFEYSG  
PPPSAMNLEKKPAKSILKSSKLSDTTEYQPISSYSHRAQEFVGKSAFPPSVRALDSS  
ENCRLSSSPGLFGAFSVRGNEPGSDRSPSPSKNDSFFTPDSNHNSLSQSTTGHLSPQK  
QYPDSPHPVPHRSLFSPQNTLAAPTGHPTSGVEKVLASTISTTSTIEFKNMLKNASRKP  
SDDKHFGQAPSKGTSPDGVSLNLTQPSLTATDQQQEEHYRIETRVSSCLDLPDSTEE  
KGAPIETLGYHSASNRMSGEPIQTVESIRVPGKGNRGHGREASRVGWFDLSTSGSSFDN

GPSSASELASLGGGSGGLTGFKTAPYKERAPQFQESVGSFRSNSFNSTFEHHLPPSPLE  
HGTPFQREPVGPSSAPPVPPKDHGGIFSRDAPTHLPSVDLSNPFTKEAALAHAAAPPPPG  
EHSGIPFPTPPPPPPGEHSSSGSGVPFSTPPPPPPVDHSGVVPFPAPPLAEHGVAGA  
VAVFPKDHSSLLQGTLAEHFVLPGRDHGGPTQRDLNGPGLSRVRESLTLPShSLEHLG  
PPHGGGGGGSSSSGPPLGPSHRDTISRSGIILRSRPDFRPREPFLSRDPFHSLKRPR  
PPFARGPPFFAPKRPFPPRY

>sp|Q9HB90|RRAGC\_HUMAN Ras-related GTP-binding protein C OS=Homo sapiens GN=RRAGC PE=1  
SV=1

MSLQYGAETPLAGSYGAADSFPKDFGYGVEEEEEEAAAAGGGVGAGAGGGCGPGGADSS  
KPRILLMGLRRSGKSSIQKVVFHKMSPNETLFLESTNKIYKDDISNSSFVNFQIWDFFPGQ  
MDFDPTFDYEMIFRGTGALIYVIDAQDDYMEALTRLHITVSKAYKVNPD MNFEVFIHKV  
DGLSDDHKIETQRDIHQRANDDLADAGLEKLHLSFYLTISIYDHSIFEAFSKVVQKLIPQL  
PTLENLLNIFISNSGIEKAFLFDVVSKIYIATDSSPVD MQSYELCCDMIDVVIDVSCIYG  
LKEDGSGSAYDKESMAIIKLNNTTVLYLKEVTKFLALVCILREESFERKGLIDYNFHCFR  
KAIHEVFEVGVTSHRSCGHQTSASSLKALTHNGTPRNAI

>sp|Q9P2E9|RRBP1\_HUMAN Ribosome-binding protein 1 OS=Homo sapiens GN=RRBP1 PE=1 SV=4

MDIYDTQTLGVVVFGGFMVVSIAIGIFLVSTFSMKETSYEEALANQRKEMAKTHHQVEKK  
KKEKTVEKKGKTKKKEKPNGKIPDHPAPNVTVLLREPVRAPAVAVAPTPVQPPIIVAP  
VATVPAMPQEKLASSPKDKKKKEKVAKEPAVSSSVNSIQVLTSKAAILETAPKEVPMV  
VVPPVGAKGNTPATGTTQGGKAEGTQNGSKKAEGAPNQGRKAEGTPNQKKTEGTPNQGK  
KAEGTPNQGKKAEGTPNQGKKAEGAQNQGKKVDTPNQGKKVEGAPTQGRKAEGAQNQAK  
KVEGAQNQGKKAEGAQNQGKKGEAQNQGKKAEGAQNQGKKAEGAQNQGKKAEGAQNQGK  
KAEGAQNQGKKAEGAQNQGKKSEGAQNQGKKVEGAQNQGKKAEGAQNQGKKAEGAQNQGK  
KAEGAQNQGKKAEGAQNQGKKAEGAQNQGKKAEGAQNQGKKAEGAQNQGKKAEGAQNQGK  
KAEGAQNQGKKAEGAQNQGKKAEGAQNQGKGEAQNQGKKTEGAQGGKAERSPNQGKKG  
EGAPIQGKKADSVANGTKVEGITNQGKKAEGSPSEGKKAEGSPNQGKKADAAANQGKKT  
ESASVQGRNTDVAQSPEAPKQEAPAKKSGSKKKEGPPDADGPLYLPYKTLVSTVGSM  
VFNEGEAQRLIEILSEKAGIIQDTHWKATQKGDPVAILKRQLEEKEKLLATEQEDAAVAK  
SKLRELNKEMAAEKAKAAAGEAKVKKQLVAREQEITAVQARMQASYREHVKEVQQLQGKI  
RTLQEQLENGPNQLARLQQENSILRDALNQATSQVESKQNAELAKLRQELSKVSKELVE  
KSEAVRQDEQQRKALEAKAAAFEKVQLQLQASHRESEEALQKRLDEVSRRELCHTQSSHAS  
LRADAEKAQEQQQMAELHSLQSSEAEVRSKCEELSGLHGQLQEARAENSQLTERIRSI  
EALLEAGQARDAQDVQASQAEADQQQTRLKELESQVSGLEKEAIELREAVEQQKVKNNDL  
REKNWKAMEALATAEQACKEKLLSLTQAKEESEKQLCLIEAQTMEALLALLPELSVLAQQ  
NYTEWLQDLKEKGPTLLKHPPAPAEPSSDLASKLREAEETQSTLQAECDQYRSILAETEG  
MLRDLQKSVEEEEQVWRAKVGAAEEELQKSRVTVKHLEEIVEKLKGELESSDQVREHTSH  
LEAELEKHMAAASAEQNYAKEVAGLRQLLLESQSQLDAAKSEAQKQSDALVRQQLSE  
MKSHVEDGDIAGAPASSPEAPAEQDPVQLKTQLEWTEAILEDQEQRQKLTAEFEEAQT  
SACRLQEELEKLRTAGPLESSETEEASQLKERLEKEKKLTSDLGRAATRLQELLKTTQEQ  
LAREKDTVKKLQEQLEKAEDGSSSKEGTSV

>sp|Q92766|RREB1\_HUMAN Ras-responsive element-binding protein 1 OS=Homo sapiens GN=RREB1  
PE=1 SV=3

MTSSSPAGLEGSDLSSINTMMSAVMSVGKVTENGGSPQGIKSPSKPPGPNRIGRRNQETK  
EEKSSYNCPLEKICTTQHQLTMHIRQHNTDTGGADHSCSICGKSLSSASSLDRHMLVHS

GERPYKCTVCGQSFTTNGNMHRHMKIHEKDPNSATATAPPSPLKRRRLSSKRKLSHDAES  
EREDPAPAKKMVEDGQSGDLEKKADEVFHCPVCFKEFVCKYGLETHMETHSDNPLRCDIC  
CVTFRTHRGLLRHNALVHKQLPRDAMGRPFIQNNPSIPAGFHDLGFTDFSCRKFPRISSQA  
WCETNLRRICISEQHRFVCDTCDKAFPMCLSLALHKQTHVAADQGQEKPAATPLPGDALDQ  
KGFLALLGLQHTKDV RPAPAEELPDDNQAIQLQTLKCQLPQDPGCTNLLSLSPFEAASL  
GGSLTVLPATKDSIKHLSLQPFQKGFIIQPDSSIVVKPISGESAIELADIQQILKMAASA  
PPQISLPPFSKAPAAPLQAIKHKMPPLKPKPLVTPRTVVATSTPPPLINAQQASPGCISP  
SLPPPPLKLLKGSVEAASNAHLQSKSGTQPHAATRLSLQQPRAELPGQPEMKTQLEQDS  
IEALLPLSMEAIKQEIETEGELKAFMTAPGGKKTAMRKVLYPCRFCNQVFAFSGLRA  
HVRSHLGTSPYQCNICDYIAADKAALIRHLRTHSGERPYICKICHYPFTVKANCERHLRK  
KHLKATRKDIEKNIIEYVSSSAAELVDAFCAPDTCRLCGEDLKHYRALRIHMRTHCGRGL  
GGGHKGRKPFECKECSAAFAAKRNCIHHILKQHLHVPEQDIESYVLAADGLGPAEAPAAE  
ASGRGEDSGCAALGDCKPLTAFLEPQNGFLHRGPTQPPPHVSIKLEPASSFAVDFNEPL  
DFSQKGLALVQVKQENISFLSPSSLVPYDCSMEPIDLSIPKNFRKGDKDLATPSEAKKPE  
EEAGSSEQSPSPCAPGPSLPVTLGPSGILESPMAPAPAAATPEPPAQPLQGPVQLAVPIYS  
SALVSSPPLVGSSALLSGTALLRPLRPKPPLLLPKPPVTEELPLASIAQIISSVSSAPT  
LLTKKVADPGPASTGSNTTASDSLGGSVPKAATTATPAATTSPKESSEPPAPASSPEAAS  
PTEQGAGTSKKRGRKGRMRSRPRANS GGVDLDSSGEFASIEKMLATTDTNKFSPLQTA  
EDNTQDEVAGAPADHHGPSDEEQSGPPEDKLLRAKRNSYTNCLQKITCPHCPRVFPWASS  
LQRHMLTHTDSQSDAETAAAAGEVLDLTSRDREQPSGATELRQVAGDAPVEQATAETAS  
PVHREEHGRGESHEPEEEHGTTEESTGDADGAEDASSNQSLDLDFATKLMDFKLAEGDGE  
AGAGGAASQEQKLACDTCGKSFKFLGTLRHRKAHGRQEPKDEKGDGASTAEEGPQPAPE  
QEEKPPETPAEVVESAPGAGEAPAEKLAETE GPSDGEAAEKRSSEKSDDDKKPKTDSP  
KSVASKADKRKKVCSVCNKRFWSLQDLTRHMRSHTERPYKCQTCERTFTLKHSVRHQR  
IHQKARHAKHHGKDSKEERGEEDSENESTHSGNNAVSENEAELAPNASNHMAVTRSRKE  
GLASATKDCSHREEKV TAGWPSEPGQDLNPESPAALGQDLLEPRSKRPAHPILATADGA  
SQLVGME

>sp|P62249|RS16\_HUMAN 40S ribosomal protein S16 OS=Homo sapiens GN=RPS16 PE=1 SV=2  
MPSKGPLQSVQVFGRRKTATAVAHCKRGNGLIKVNGRPLEMIEPRTLQYKLLPEVLLL GK  
ERFAGVDIRVRVKGGGHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLL  
VADPRRCESKKFGGPGARARYQKSYR

>sp|O14802|RPC1\_HUMAN DNA-directed RNA polymerase III subunit RPC1 OS=Homo sapiens  
GN=POLR3A PE=1 SV=2  
MVKEQFRETDVAKKISHICFGMKSPEEMRQQAHIQVVSKNLYSQDNQHAPLLYGVL DHRM  
GTSEKDRPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQE  
EKKQFLDYLRPGLTYLQKRLKKKISDKCRKKNICHHCAGFNGTVKKCGLLKIIHEKYK  
TNKKVVDPIVSNFLQSFETAIEHNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDVPLLLM  
NPEAGKPSDLILTRLLVPLCIRPSVSDLSGTNEDDLTMKLTEIIFLNDVIKKHRISG  
AKTQMIMEDWDFLQLQCALYINELSGIPLNMAPKKWTRGFVQRLKGKQGRFRGNLSGKR  
VDFSGRTVISDPNLRIDEVAVPVHVAKILTFPEKVNKANINFLRKL VQNGPEVHPGANF  
IQQRHTQMKRFLKYGNREKMAQELKYGDIVERHLIDGDVVLFNRPQSLHKLSIMAHLARV  
KPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIA  
AIQDFLTGAYLLTLKDTFFDRACACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQI  
FSVILRPSDDNPVRANLRTKGKQYCGKGEDLCANDSYVTIQNSELMSGSM DKGTLGSGSK



NNIFYILLRDWQGNEAADAMSRLARLAPVYLSNRGFSIGIGDVTGQGLLKAKYELLNAG  
YKKCDEYIEALNTGKLQQQPGCTAEETLEALILKELSVIRDHAGSACLRELDKSNSPLTM  
ALCGSKGSFINISQMIACVGQQAISGSRVPDGFENRSLPHFEKHSKLPAAKGFVANSFYS  
GLTPTEFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLCSQYDLTVRSSTGDI IQF  
IYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCSEPALSKNELILTTE SIMKKSEFLC  
CQDSFLQEIKKFIKGVSEKIKKTRDKYGINNGTTEPRVLYQLDRITPTQVEKFLETCD  
KYMRAQMEPGSAVGALCAQSIGEPGTQMTLKTFFHAGVASMNITLGVPRIKEIINASKAI  
STPIITAQLDKDDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILVKLSLERIRLL  
RLEVNAETVRYSICTSKLRVKPGDVAVHGEAVVCVTPRENSKSSMYVYLQFLKEDLPKVV  
VQGIPEVSRAVIHIDEQSGKEKYLLVEGDNLRAVMATHGVKGTRTTSNNTYEVEKTLGI  
EAARTTIINEIQYTMVNHGMSIDRRHVMLLSDLMTYKGEVLGITRFG LAKMKESVLM LAS  
FEKTADHLFDAAYFGQKDSVCGVSECIIMGIPMNIGTGLFKLLHKADRPNPPKRPLIFD  
TNEFHIPLVT

>sp|Q9BT43|RPC7L\_HUMAN DNA-directed RNA polymerase III subunit RPC7-like OS=Homo sapiens  
GN=POLR3GL PE=1 SV=1

MASRGGRGRGRGQLTFNVEAVGIGKGDALPPPTLQPSPLFPPEFRPVPLPSGEEGEYV  
LALKQELRGAMRQLPYFIRPAVPKRDVERYSDKYQMSGPIDNAIDWNPDWRRRLPRELKIR  
VRKLQKERITILLPKRPPKTTDEKETIQKLETLEKKEEEVTSEEDEEEEEEEEEEEEEE  
EEYDEEEHEEETDYIMSYFDNGEDFGGSDDDNMDEAIY

>sp|Q9Y535|RPC8\_HUMAN DNA-directed RNA polymerase III subunit RPC8 OS=Homo sapiens  
GN=POLR3H PE=1 SV=1

MFVLVEMVDTVRIPPWQFERKLNDISAEELNKKLANKVVVNVGLCICLFDITKLEDAYVF  
PGDGASHTKVHFRCVVHFPFLDEILIGKIKGCSPEGVHVS LGFFDDILIPPESLQQPAKF  
DEAEQVWWEYETEEGAHDLYMDTGEEIRFRVVDSEFVDTSP TGPSSADATTSSEELPKK  
EAPYTLVGSISEPGLGLLSWWTSN

>sp|P49247|RPIA\_HUMAN Ribose-5-phosphate isomerase OS=Homo sapiens GN=RPIA PE=1 SV=3

MQRPGPFSTLYGRVLAPLPGRAGGAASGGGNSWDLPGSHVRLPGRAQSGTRGGAGNTST  
SCGDSNSICPAPSTMSKAEAKLAGRAAVENHVRNNQVLGIGSGSTIVHAVQRIAERVK  
QENLNLVCIPTSFQARQLILQYGLTSLDRHPEIDLAIDGADEV DADLNLIKGGGGCLT  
QEKIVAGYASRFIVIADFRKDSKNLGDQWHKGIP IEVIPMAYVPVSRVVSQKFGGVVELR  
MAVNKAGPVVTDNGNFILDWKFDRVHKWSEVNTAIKMIPGVVDTGLFINMAERVYFGMQD  
GSVNMREKPF

>sp|Q96FB5|RRNAD\_HUMAN Protein RRNAD1 OS=Homo sapiens GN=RRNAD1 PE=2 SV=2

MPGISARGLSHEGRKQLAVNLTRVLALYRSILDAYIIIEFFTDNLWDTLPCSWQEALDGLK  
PPQLATMLLGMPGEGEVVRYRSVWPLTLLALKSTACALAFTRMPGFQTPSEFLENPSQSS  
RLTAPFRKHVRPKKQHEIRRLGELVKKLSDFGTGCTQVVDVGSGQGHL SRFMALGLGLMVK  
SIEGDQRLVERAQRDLQELLQALEKEEKRN PQVVQTSPRHSPHHVVRVWDPTALCEELLL  
PLENPCQGRARLLLTGLHACGDL SVALLRHFSCCEVVALASVGCCYMKLSDPGGYPLSQ  
WVAGLPGYELPYRLREGACHALEEYAERLQKAGPGLRTHCYRAALETVIRRARPELRRPG  
VQGI PRVHELKIEEYVQRGLQRVGLDPLPLNLAALQAHVAQENRVVAF FSLALLLAPLV  
ETLILLDRLLYLQEQGFHAELLPIFSPELSPRNLVLVATKMP LGGALS VLETEDS

>sp|P10301|RRAS\_HUMAN Ras-related protein R-Ras OS=Homo sapiens GN=RRAS PE=1 SV=1

MSSGAASGTGRGRPRGGPGPGDPPPSETHKL VVVGGGGVKSALT IQFIQSYFVSDYDP  
TIEDSYTKICSVDGIPARLDILDTAGQEEFGAMREQYMRAGHGFLLVFAINDRQSFNEVG

KLFTQILRVKDRDDFPVVLVGNKADLESQRQVPRSEASAFGASHHVAYFEASAKLRNLND  
EAFEQLVRAVRKYQEQLPPSPPSAPRKKGGGCPVLL

>sp|Q969S9|RRF2M\_HUMAN Ribosome-releasing factor 2, mitochondrial OS=Homo sapiens GN=GFM2  
PE=1 SV=1

MLTNLRIFAMSHQTIPSVYINNICYKIRASLKRLKPHVPLGRNCSSLPGLIGNDIKSLH  
SIINPPIAKIRNIGIMAHIDAGKTTTTTERILYYSYTRSLGDVDDGDTVDFMAQERERG  
ITIQSAAVTFDWKGYRVNLIDTPGHVDFTLEVERCLRVLDGAVAVFDASAGVEAQLTVW  
RQADKHNIPRICFLNKMDKTGASFYAVESIREKLKAKPLLLQLPIGEAKTFKGVVDVVM  
KEKLLWNCNSNDGKDFERKPLEMNDPELLKETTEARNALIEQVADLDDEFADLVLEEF  
ENFDLLPAEKLQTAIHRVTLAQTAVPVLGSAKKNKGIQPLLDVMTYLPSPERNYEFL  
QWYKDDLALAFKVLHDKQRGQLVFMRIYSGTIKPQLAIHNINGNCTERISRLLLPFADQ  
HVEIPSLTAGNIALTVGLKHTATGDTIVSSKSSALAAARRAEREKEKKHRQNNEAERLLL  
AGVEIPEPVFFCTIEPPSLSKQPDLEHALKCLQREDPSLKVRLDPDSGQTVLCGMGELHI  
EIIHDRIKREYGLETYLGLQVAYRETILNSVRATDTLDRTLGDKRHLVTVEVEARPIET  
SSVMPVIEFEYAESINEGLKVSQEIENGHSACLQGPLLGSPIQDVAITLHSLTIHPG  
TSTTMISACVSRVQKALKKADKQVLEPLMNLEVTVARDYLSVPLADLAQRRGNIQEIQ  
RQDNKVVIGFVPLAEIMGYSTVLRLTSGSATFALELSTYQAMNPQDQNTLLNRRSGLT

>sp|Q9Y2L1|RRP44\_HUMAN Exosome complex exonuclease RRP44 OS=Homo sapiens GN=DIS3 PE=1  
SV=2

MLKSKTFLKKTRAGGVMKIVREHYLRDDIGCGAPGCAACGGAHEGPALEPQPQDPASSVC  
PQPHYLLPDTNVLLHQIDVLEDPAIRNVIVLQTVLQEVNRNSAPVYKRIRDVTNNQEKHF  
YTFTNEHHRETYVEQEQQENANDRNDRAIRVAAKWYNEHLKKMSADNLQVIFITNDRRN  
KEKAIIEGIPAFTCEEYVKSLTANPELIDRLACLSEEGNEIESGKIIFSEHLPLSKLQQG  
IKSGTYLQGTFRASRENYLEATVWIHGDNEENKEIILQGLKHLNRAVHEDIVAVELLPKS  
QWVAPSSVVLHDEGQNEEDVEKEETERMLKTAVSEKMLKPTGRVVGIIKRNWRPYCGML  
SKSDIKESRRHLFTPADKRIPRIETRQASTLEGRRIIVAIDGWPRNSRYPNGHFVRNL  
GDVGEKETETEVLLLEHDVPHQPFSQAVLSFLPKMPWSITEKDMKNREDLRHLCICSVD  
PGCTDIDDALHCRELENGNLEVGVHIADVSHFIRPGNALDQESARRGTTVYLCEKRIDMV  
PELLSSNLCSLKCDVDRLAFSCIWEMNHNAEILKTKFTKSVINSKASLYAEAQLRIDSA  
NMNDDITTSRLGLNKLAKILKKRRIEKGALTLSSPEVRFHMDSETHDPIDLQTKELRET  
SMVEEFMLLANISVAKKIHFEFSEHALLRKHPAPPPSYEILVKAARSRLNLEIKTDTAKS  
LAESLDQAESPTFPYLTLLRILATRCMMQAVYFCSGMDNDFHHYGLASPIYTHFTSPIR  
RYADVIVHRLLAIVAIGADCTYPELTDKHLADICKNLNFRHKMAQYAQRASVAFHTQLFF  
KSKGIVSEEAYILFVRKNAIVVLIPKYGLEGTVFVEEKDKPNPQLIYDDEIPSLKIEDTV  
FHVFDKVKVKIMLDSSNLQHKKIRMSLVEPQIPGISIPTDTSNMDLNGPKKKMKLGK

>sp|O43159|RRP8\_HUMAN Ribosomal RNA-processing protein 8 OS=Homo sapiens GN=RRP8 PE=1  
SV=2

MFEPEWAEAAPVAAGLGPVISRPPPAASSQNGSKRRQLLATLRALEAASLSQHPPSLC  
ISDSEEEEEERKKKCPKKASFASAAEVGKKGKKKQKQGPCSDSEEEVERKKKCHKQA  
LVGSDSAEDEKRRKCKQKHAPINSAQHLDNVDQTGPKAWKGSTTNDPPKQSPGSTSPKPP  
HTLSRKQWRNRQKNRRCKNKFQPPQVPDQAPAEAPTEKTEVSPVPRTDSHEARAGALRA  
RMAQRLDGARFRYLNELYSGPSSAAQRLFQEDPEAFLLYHRGFQSQVKKWPLQPVDRIA  
RDLRQRPASLVVADFGGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQVPLEDESVDVA  
VFCLSLMGTNIRDFLEENRVLKPGGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLT

NSHFFLFDFQKTGPPLVGPKAQLSGLQLQPCLYKRR

>sp|Q95059|RPP14\_HUMAN Ribonuclease P protein subunit p14 OS=Homo sapiens GN=RPP14 PE=1 SV=3

MPAPAATYERVVYKNPSEYHYMKVCLEFQDCGVGLNAAQFKQLLISAVKDLFGEVDAALP  
LDILTYEEKTLSAILRICSSGLVKLWSSLTLLGSYKGKKCAFRVIQVSPFLLALSGNSRE  
LVLD

>sp|Q9BUL9|RPP25\_HUMAN Ribonuclease P protein subunit p25 OS=Homo sapiens GN=RPP25 PE=1 SV=1

MENFRKVRSEEAPAGCGAEGGGPGSGPFADLAPGAVHMRVKEGSKIRNLMAFATASMAQP  
ATRAIVFSGGRATTKVTCAEILKRRLAGLHQVTRLRYRSVREVWQSLPPGPTQGQTPG  
EPAASLSVLKNVPLAILLSKDALDPRQPGYQPPNHPGPGSSPPAAPASKRSLGEPAAE  
GSAKRSQPEPGVADEDQTA

>sp|Q75818|RPP40\_HUMAN Ribonuclease P protein subunit p40 OS=Homo sapiens GN=RPP40 PE=1 SV=3

MATLRRRLREAPRHLLVCEKSNFGNHKSRHRHLVQTHYYNYRVSFLIPECGILSEELKNLV  
MNTGPYYFVKNLPLHELITPEFISTFIKKGSCYALTYNTHIDEDNTVALLPNGKLILSLD  
KDTYEETGLQGHPSQFSGRKIMKFIVSIDLMELSLNLDKKYERISWSFKEKKPLKFDL  
LAWHKTGSEESTMMSYFSKYQIQEHQPKVALSTLRDLQCPVLQSSELEGTPEVSCRALEL  
FDWLGAVFNSVDLNNENNFISTYCCPEPSTVAKAYLCTITGFILPEKICLLLEHLCHY  
FDEPKLAPVWTLVQGFADSPVSEKNEHGFRKGGEHLYNFVIFNNQDYWLQMAVGANDH  
CPP

>sp|P62280|RS11\_HUMAN 40S ribosomal protein S11 OS=Homo sapiens GN=RPS11 PE=1 SV=3

MADIQTERAYQKQPTIFQNKRRVLLGETGKEKLPRYYKNIGLGFKTPKEAIEGTYIDKKC  
PFTGNVSIRGRILSGVVTMMKMQRTIVIRRDYLHYIRKYNRFKRRKNMSVHLSPCFRDV  
QIGDIVTVGECRPLSKTVRFNVLVTKAAGTKKQFQKF

>sp|Q96P16|RPRI1A\_HUMAN Regulation of nuclear pre-mRNA domain-containing protein 1A OS=Homo sapiens GN=RPRD1A PE=1 SV=1

MSAFSEAALEKKLSELSNSQQSVQTLISLWLIHHRKHSRPIVTVWERELRKAKPNRKLTF  
YLANDVIQNSKRKGPEFTKDFAPVIVEAFKHVSSETDESCCKHLGRVLSIWEERSVYEND  
VLEQLKQALYGDKKPRKRTYEQIKVDENENCSSLGSPSEPPQTLDLVRALQDLENAASGD  
AAVHQRIASLPVEVQEVSLDKITDKESGERLSKMVEDACMLLADYNGRLAAEIDDRKQL  
TRMLADFLRCQKEALAEKEHLEEKRLARVSLVRKELRSRIQSLPDL SRLPNVTGSHM  
HLPFAGDIYSED

>sp|Q9Y3A4|RRP7A\_HUMAN Ribosomal RNA-processing protein 7 homolog A OS=Homo sapiens GN=RRP7A PE=1 SV=2

MVARRRKCAARDPEDRIPSLGYAAIPIKFSEKQQASHYLYVRAHGVRQGTKSTWPQKRT  
LFVLNVPYPYTEESLSRLSTCGLVQSVELQEKPDLAESPKESSKFFHPKVPVPGFQVAY  
VVFQKPSGVSAAALALKGPLLSTESHVKSIGHKWISDYADSVDPPEALRVEVDTFMEAY  
DQKIAEEEEAKKEEGVPDEEGVWKVTRRGRRPVLPRTAAASLRVLERERRKRSRKELLN  
FYAQHRESKMEHLAQLRKKFEEDKQRIELLRAQRKFRPY

>sp|P62277|RS13\_HUMAN 40S ribosomal protein S13 OS=Homo sapiens GN=RPS13 PE=1 SV=2

MGRMHAPGKGLSQSALPYRRSVPTWLKLTSDDVKEQIYKLAKKGLTPSQIGVILRDSHGV  
AQVRFVTGNKILRILKSKGLAPDLPEDLYHLIKKAVAVRKHLERNRKDKDAKFRLILIES  
RIHRLARYYKTKRVLPPNWKYESSTASALVA

>sp|P62263|RS14\_HUMAN 40S ribosomal protein S14 OS=Homo sapiens GN=RPS14 PE=1 SV=3  
MAPRKGEKKEEQVISLGPQVAEGENVFGVCHIFASFNDTFVHVTDLSGKETICRVTGGM  
KVKADRDESSPYAAMLAQDVAQRCKELGITALHIKLRATGGNRTKTPGPGAQSALRALA  
RSGMKIGRIEDVTPIPSDSTRRKGGRRGRRL

>sp|P63220|RS21\_HUMAN 40S ribosomal protein S21 OS=Homo sapiens GN=RPS21 PE=1 SV=1  
MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIR  
RMGESDDSLRLAKADGIVSKNF

>sp|P23396|RS3\_HUMAN 40S ribosomal protein S3 OS=Homo sapiens GN=RPS3 PE=1 SV=2  
MAVQISKKRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIILATRTQNVLG  
EKGRRIRELTAVVQKRFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACY  
GVLRFIMESGAKGCEVVVSGKLRGQRAKSMKFVDGLMIHSGDPVNYVDTAVRHVLLRQG  
VLGIKVKIMLPWDPTGKIGPKKPLPDHVSIVEPKDEILPTTPISEQKGKPEPPAMPQPV  
PTA

>sp|Q96T23|RSF1\_HUMAN Remodeling and spacing factor 1 OS=Homo sapiens GN=RSF1 PE=1 SV=2  
MATAAAAAVMAPPGCPGSCPNFAVVCFLERYGPLLDLPFPELERVLAQPPDVGN  
GEVPKELVELHLKLMRKIGKSVTADRWEKYLKICQEFNSTWAWEMEKKGYLEMSVECKL  
ALLKYLCECQFDDNLKFKNIINEEDADTMRLQPIGRDKDGLMYWYQLDQDHNVRMYIEEQ  
DDQDGSSWKCIVRNRNELAETLALLKAQIDPVLLKNSSQQDNSSRESPSLEDEETKKEEE  
TPKQEEQKESEKMKSEEQPMDLENRSTANVLEETTvkKEKEDEKELVKLPVIVKLEKPLP  
ENEEKKIIEESDSFKENVKPIKVEVKECRADPKDTKSSMEKPVAQEPERIEFGGNKSS  
HEITEKSTEETEKLNDDQAKIPLKKREIKLSDDFDSPVKGPLCKSVTPTKEFLKDEIKQ  
EEETCKRISTITALGHEGKQLVNGEVSDERVAPNFKTEPIETKFYETKEESYSPSKDRNI  
ITEGNGTESLNSVITSMKTGELEKETAPLRKDADSSISVLEIHSQKAQIEEPDPPPEMETS  
LDSSEMAKDLSSKTALSTESCTMKGEEKSPKTKKDKRPPILECLEKLEKSKKTFLDKDA  
QRLSPIPEEVPKSTLESEKPGSPEAAETSPPSNIIDHCEKLASEKEVVECQSTSTVGGQS  
VKKVDLETLEKDESETKVEMDNLDNAQTSGIEEPSETKGSMSKFKYKLVPEEETTASE  
NTEITSERQKEGIKLTIRISSRKKKPDSPPKVLEPENKQEKTEKEEEKTNVGRTLRRSPR  
ISRPTAKVAEIRDQKADKKRGEDEVEEEESTALQKTDKKEILKKSEKDTNSKVSVKPKP  
GKVRWTGSRTRGRWKYSSNDESESGSEKSSAASEEEEEKESEEAAILADDEPCKKCGLP  
NHPELILLCDSCDSGYHTACLRPPLMIIPDGEWFCPPCQHKLLCEKLEEQLQDLVALLK  
KERAERRKERLVYVGISIENIIPPQEPDFSEDQEEKKKDSKSKANLLERRSTRTRKCTIS  
YRFDEFDEAIDEAIEDDIKEADGGGVGRGDISTITGHRGKDISTILDEERKENKRPQRA  
AAARRKKRRRLNDLSDSNLDEEESDEFKISDGSQDEFVVDENPDESEEDPPSNDDSD  
TDFCSRRLRRHPSRPMQRRLRRKTPKKYSDDDEEESEENSRDSESDFSDDFSDDFV  
ETRRRRSRRNQKRQINYKEDSESDGSQSLRRGKEIRRVHKRRLSSSESEESYLSKNSD  
DELAKESKRSVRKRGRSTDEYSEADEEEEEEGKPSRKRLHRIETDEEESCDNAHGDAQ  
PARDSQPRVLPSEQESTKKPYRIESDEEEDFENVGKVGSPLDYSLVDLPSTNGQSPGKAI  
ENLIGKPTESQTPKDNSTASASLASNGTSGGQGEAGAPEEEEEDELLRVTDLVDYVCNSEQ  
L

>sp|Q9NYV6|RRN3\_HUMAN RNA polymerase I-specific transcription initiation factor RRN3  
OS=Homo sapiens GN=RRN3 PE=1 SV=1  
MAAPLLHTRLPGDAAASSAVKKLGASRTGISNMRALENDFFNSPPRKTVRFGGTVTEVL  
LKYYKGETNDFELLNQLLDPDIKDDQIINWLEFRSSIMYLTkdFEQLISIIILRPWLN  
RSQTVVEEYLAFLGNLVSAQTVFLRPCLSMIASHFVPPRVIIKEGDVDVSDSDEDDNLP

ANFDTCHRALQIIARYVPSTPWFLMPIILVEKFPFVRKSERTLECYVHNLLRISVYFPTLR  
HEILELIIIEKLLKLDVNASRQGIEDAEETATQTCGGTDSTEGLFNMEDEETEHEHKAGP  
ERLDQMVPVAERLDILMSLVLSYMKDVCYVDGKVDNGKTKDLYRDLINIFDKLLPHTA  
SCHVQFFMFYLCFSKLGFAEAFLEHLWKKLQDPSNPAAIRQAAGNYIGSFLARAKFIPLI  
TVKSCDLLVNWLHIYLNQDSGTAKFCDVALHGPFYSACQAVFYTFVFRHKQLLSGNLK  
EGLQYLQSLNFERIVMSQLNPLKICLPSVNVFFAAITNKYQLVFCYTI IERNNRQMLPVI  
RSTAGGDSVQICTNPLDTFFPFDPVCLKRSKKFIDPIYQVWEDMSAEELQEFKKPMKKDI  
VEDEDDDFLKGEVPQNDTVIGITPSSFDTHFRSPSSSVGSPPVLYMQPSPL

>sp|Q5JTH9|RRP12\_HUMAN RRP12-like protein OS=Homo sapiens GN=RRP12 PE=1 SV=2

MGRSGKLPSGVSAKLKRWKKGHSSDSNPAICRHRQAARSRFFSRPSGRSDLTVDAVKLHN  
ELQSGSLRLGKSEAPETPMEEEAELVLTEKSSGTFLSGLSDCTNVTFSKVQRFWESNSAA  
HKEICAVLAAVTEVIRSQGGKETETEFYAALMTTMEAVESPESLAAVAYLLNLVLRVPS  
PVLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQDLEAWGYPVTLQVYHG  
LLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE  
ATTTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLS  
TLSAELNAQIIITALYDYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTA  
VTCLSPHSQVLTAATQSLKEILKECVAPHMADIGSVTSSASGPAQSVAKMFRAVEEGLT  
YKFHAAWSSVLQLLCVFEACGRQAHPVMRKCLQSLCDLRLSPHFPHTAALDQAVGAAVT  
SMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKSKA  
MDLAQAGSTVESKIYDTLQWQMWTLTPGFCTRPTDVAISFKGLARTLGMAISERPDLRVT  
VCQALRTLITKGCQAEADRAEVSFRFAKNFLPILFNLYGQPVAAGDTPAPRRAVLETIRTY  
LTITDTQLVNSLLEKASEKVLDPASSDFTRLSVLDLVVALAPCADEAAISKLYSTIRPYL  
ESKAHGQKKAYRVLEEVCASPQGPQGFALFVQSHLEDLKKTLTSLRSTSSPAKRPRKCL  
LHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAFLRFGSNQEEALQ  
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGSTVEQLLENVCLLLASRTRDVVK  
SALGFIVAVTMDVAHLAKHVQLVMEAIGKLSDDMRRHFRMKLRNLFTKFIKRFGEFV  
KRLLPEEYHRVLVNIRKAEARAKRHRALSQAAVEEEEEEEEEEPQKGKDSIEEILADS  
EDEEDNEEEERSRQKEQRKLARQSRRAWLKEGGGDEPLNFLDPKVAQRVLATQPGPGRGR  
KKDHGFKVSADGRLI IREEADGNKMEEEGAKGEDEEMADPMEDVI I RNKKHKLKHKE  
AEEEELEIPPQYQAGSGSIHRPVAKKAMPGA EYKAKKAKGDVKKKGRPDYAYIPLNRSK  
LNRRKKMKLQGQFKGLVKAARRGSQVGHKNRRKDRRP

>sp|P56182|RRP1\_HUMAN Ribosomal RNA processing protein 1 homolog A OS=Homo sapiens GN=RRP1  
PE=1 SV=1

MVSRVQLPPEIQLAQRLAGNEQVTRDRAVRKLRKYIVARTQRAAGGFTHDELLKVWGLF  
YCMWMQDKPLLQEELGRTISQLVHAFQTTEAQLFLQAFWQTMNREWTGIDRLRLDKFYM  
LMRMVLNESLKVLMQGWEEQIEELLELLMTEILHPSSQAPNGVKSHFIEIFLEELTKV  
GAEELTADQNLKFIDPFCRIAARTKDSLVLNNITRGIFETIVEQAPLAIEDLLNELDTQD  
EEVASDSDESSEGGERGDA LSQRSEKPPAGSICRAEPEAGEEQAGDDRDSGGPVLQFDY  
EAVANRLFEMASRQSTPSQNRKRLYKVIKRLQDLAGGIFPEDEIPEKACRRLLEGRRQKK  
TKKQKRLRLQQERGKGEKEPPSPGMRKRSRRRGVGADPEARAEAGEQPGTAERALLRD  
QPRGRGQRGARQRRRTPRPLTSARAKAANVQEPEKKKKRRE

>sp|Q96EU6|RRP36\_HUMAN Ribosomal RNA processing protein 36 homolog OS=Homo sapiens  
GN=RRP36 PE=1 SV=1

MPGANYRAGAGAGARRPRGARDREEDGGGLEPAAVARDLLRGTSNMSFEELLELQSQV

GTKTYQLVAGNSPKKQASRPPIQNACVADKHRPLEMSAKIRVPFLRQVVPISKKVARDP  
RFDDLSGEYNPEVFDKTYQFLNDIRAKEKELVKKQLKKHLSGEEHEKLQQLQRMEQQEM  
AQQERKQQQLHLALQERRAQAQQGHRPYFLKKSEQRQLALAEKFELKRSKKLENFLS  
RKRRRNAGKDRRHLP LSKE

>sp|P46783|RS10\_HUMAN 40S ribosomal protein S10 OS=Homo sapiens GN=RPS10 PE=1 SV=1  
MLMPKKNRIAIYELLFKEGVMVAKKDVHMPKHP ELADKNV PNLHVMKAMQSLKSRGYVKE  
QFAWRHFYWYLTNEG IQYLRDYLHLPPEIVPATLRRSRPETGRPRPKGLEGERPARLTRG  
EADRDTYRRSAVPPGADKKA EAGAGSATEFQFRGGFGRGRGQPPQ

>sp|P62857|RS28\_HUMAN 40S ribosomal protein S28 OS=Homo sapiens GN=RPS28 PE=1 SV=1  
MDTSRVQPIKLARVTKVLGRTGSQGQCTQVRVEFMDTSRSIIRNVKGPVREGDVLTLLE  
SEREARRLR

>sp|P08708|RS17\_HUMAN 40S ribosomal protein S17 OS=Homo sapiens GN=RPS17 PE=1 SV=2  
MGRVRTKTVKKAARVIEKYYTRLGNDFHTNKRVC EEIAIIPSKKL RNKIAGYVTHLMKR  
IQRGPPVRGISIKLQEEERERRDNYP EVSALDQEII EVDPDTK EMLKL LDFGSLSNLQVT  
QPTVGMNFKT PRGPV

>sp|P62269|RS18\_HUMAN 40S ribosomal protein S18 OS=Homo sapiens GN=RPS18 PE=1 SV=3  
MSLVIPEKFQHILRLVNTNIDGRRKIAFAITAIKGVGRRYAHVVL RKADIDLTKRAGELT  
EDEVERVITIMQNPRQYKIPDWFLNRQKDVKGYSQVL ANGLDNKLREDLERLKKIRAH  
RGLRHFWGLRVRGQHTKTTGRRGRTVGVSKKK

>sp|P62244|RS15A\_HUMAN 40S ribosomal protein S15a OS=Homo sapiens GN=RPS15A PE=1 SV=2  
MVRMNVLADALKSINNAEKRGRQVLIRPCSKVIVRFLTVMMKHGYIGEFEIIDDHRAGK  
IVVNL TGRLNKGVISPRFDVQLKDLEKWQNNLLPSRQFGFIVLTTSAGIMDHEEARRKH  
TGGKILGFFF

>sp|P60866|RS20\_HUMAN 40S ribosomal protein S20 OS=Homo sapiens GN=RPS20 PE=1 SV=1  
MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVKG PVRMPTKT  
LRITTRKTPCGEGSKTWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA

>sp|P15880|RS2\_HUMAN 40S ribosomal protein S2 OS=Homo sapiens GN=RPS2 PE=1 SV=2  
MADDAGAAGGPGGPGGPGMGNRGGFRGGFGSGIRGRGRGRGRGRGRGARGGKAEDKEW  
MPVTKLGRLVKDMKIKSLEEIYFLSLPIKESEIIDFFLGASLKDEV LKIMPVQKQTRAGQ  
RTRFKAFVAIGDYNHVGVLGVKCSKEVATAIRGAII LAKLSIVPVRRGYWGNKIGKPHTV  
PCKVTGRCGSVLVR LIPAPRG TGIVSAPVPKLLMMAGIDDCYTSARGCTATLGNFAKAT  
FDAISKTYSYLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRTQAPAVATT

>sp|Q71UM5|RS27L\_HUMAN 40S ribosomal protein S27-like OS=Homo sapiens GN=RPS27L PE=1 SV=3  
MPLARDLLHPSLEEEKKKKKKRLVQSPNSYFMDVKCPGCKYITTVF SHAQTVVLCVGCS  
TVLCQPTGGKARL TEGCSFRRKQH

>sp|P62273|RS29\_HUMAN 40S ribosomal protein S29 OS=Homo sapiens GN=RPS29 PE=1 SV=2  
MGHQQLYWSHPRKFGQGSRSRVC SNRHGLIRKYGLNMCRQC FRQYAKDIGFIKLD

>sp|P62861|RS30\_HUMAN 40S ribosomal protein S30 OS=Homo sapiens GN=FAU PE=1 SV=1  
KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRRFVN NVPTFGKKKGPNANS

>sp|Q5JNZ5|RS26L\_HUMAN Putative 40S ribosomal protein S26-like 1 OS=Homo sapiens  
GN=RPS26P11 PE=5 SV=1

MTKKRRNNSHAKKGRGHVQPIRCTNCVRCVPTDKAIKKFVIRNIVEAAAVRDISEVSVFD  
AYVLPKLYVKLHYCVSCAIHSKVVNRNRSREACKDRTPPPRFRPAGAAPRPPPKPM

>sp|P62854|RS26\_HUMAN 40S ribosomal protein S26 OS=Homo sapiens GN=RPS26 PE=1 SV=3

MTKKRRNNGRAKKGRGHVQPIRCTNCARCVPKDKAIKKFVIRNIVEAAAVRDISEASVFD  
AYVLPKLYVKLHYCVSCAIHSKVVNRNRSREARKDRTPPPRFRPAGAAPRPPPKPM

>sp|Q9UHP6|RSP14\_HUMAN Radial spoke head 14 homolog OS=Homo sapiens GN=RSPH14 PE=1 SV=1

MAHSQNSLELPININATQITTAYGHRALPKLKEELQSEDLQTRQKALMALCDLMHDPECI  
YKAMNIGCMENLKALLKDSNSMVRIKTTTEVLHITASHSVGRYAFLEHDIVLALSFLNDP  
SPVCRGNLYKAYMQLVQVPRGAQEII SKGLISSLVWKLQVEVEEEEFQEFILDTLVLCCLQ  
EDATEALGSNVVLVLKQKLLSANQNRSKAARALLNVSISREGKKQVCHFDVIPILVHLL  
KDPVEHVKSNAAGALMFATVITEGKYAALEAQIAGLLLELLHSPMTIARLNATKALTMLA  
EAEPEGRKALQTHVPTFRAMEVETYEKPQVAEALQRAARIAISVIEFKP

>sp|Q9Y3D5|RT18C\_HUMAN 28S ribosomal protein S18c, mitochondrial OS=Homo sapiens  
GN=MRPS18C PE=1 SV=1

MAAVVAVCGGLGRKKLTHLVTAAVSLTHPGHTVLWRRGCSQQVSSNEDLPISMENPYKE  
PLKKCILCGKHVDYKNVQLLSQFVSPFTGCIYGRHITGLCGKKQKEITKAIKRAQIMGFM  
PVTYKDPAYLKDPKVCNIRYRE

>sp|P82663|RT25\_HUMAN 28S ribosomal protein S25, mitochondrial OS=Homo sapiens GN=MRPS25  
PE=1 SV=1

MPMKGRFPIRRTLQYLSQGNVVKDSVKVMTVNYNTHGELGEGARKFVFFNIPQIQYKNP  
WVQIMMFKNMTPSPFLRFYLDSGEQVLVDVETKSNKEIMEHIRKILGKNEETLREEEEEK  
KQLSHPANFGPRKYCLRECICEVEGQVPCPSLVPLPKEMRGKYKAALKADAQD

>sp|Q9Y2Q9|RT28\_HUMAN 28S ribosomal protein S28, mitochondrial OS=Homo sapiens GN=MRPS28  
PE=1 SV=1

MAALCRTRAVAEAESHFLRVFLFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHS  
ELLQKVEPLQKGSPPKNVESFASMLRHSPLTQMGPADKDLVIGRIFHIVENDLYIDFGGKF  
HCVCRRPEVDGEKYQKQTRVRLRLDLELTSRFLGATTDTTVLEANAVLLGIQESKDSRS  
KEEHHEK

>sp|P51398|RT29\_HUMAN 28S ribosomal protein S29, mitochondrial OS=Homo sapiens GN=DAP3  
PE=1 SV=1

MMLKGITRLISRIHKLDPGRFLHMGQTARQSIAAHLDNQVPVESPRAISRNTNENDPAKHG  
DQHEGQHYNISPQDLETVPFHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKNTSFAYP  
AIRYLLYGEKGTGKTLSLCHVIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYNKQRFQDQ  
PLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLEGEVVEQGITRVRNATDAV  
GIVLKLKQRQSSLMFHLVAVDGINALWGRITLTKREDKSPIAPEELALVHNLKMMKND  
WHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNPKEFESCIQYY  
LENNWLQHEKAPTEEGKKELLFSLNANPSLLERHCAYL

>sp|Q9Y291|RT33\_HUMAN 28S ribosomal protein S33, mitochondrial OS=Homo sapiens GN=MRPS33  
PE=1 SV=1

MSSLSEYAFRMSRLSARLFGEVTRPTNSKSMKVVKLFSELPLAKKKETYDWYPNHHTYAE  
LMQTLRFLGLYRDEHQDFMDEQKRLKKLRGKEKPKKGEGKRAAKRK

>sp|P82673|RT35\_HUMAN 28S ribosomal protein S35, mitochondrial OS=Homo sapiens GN=MRPS35  
PE=1 SV=1

MAAAALPAWLSLQSRARTLRAFSTAVYSATPVPTPSLPERTPGNERPPRRKALPPRTEKM  
AVDQDWPSVYPVAAPFKPSAVPLPVRMGYPVKKGVPMAKEGNLELLKIPNFLHLPVAIK  
KHCEALKDFCTEWPAAALDSDEKCEKHFPFIEIDSTDYVSSGPSVRNPRARVVLRVKLSSL  
NLDDHAKKKLIKLVGERYCKTTDVLTIKTDRCPLRRQNYDYAVYLLTVLYHESWNTEWE

KSKTEADMEEYIWENSSSERNILETLLQMKAAEKNMEINKEELLGTKEIEEYKKSVVSLK  
NEEENENSISQYKESVKRLNVT

>sp|Q8WWV3|RT4I1\_HUMAN Reticulon-4-interacting protein 1, mitochondrial OS=Homo sapiens  
GN=RTN4IP1 PE=1 SV=2

MEFLKTCVLRRNACTAVCFWRSKVQKPSVRRISTTSRSTVMPAWVIDKYGKNEVLRFT  
QNMMMPIIHYPNEVIVKVHAASVNPIDVNMRSQYGATALNMKRDPLHVKIKGEEFPLTLG  
RDVSGVVMCEGLDVKYFKPGDEVWAAVPPWKQGLSEFVVVSGNEVSHKPKSLTHTQAAS  
LPYVALTAWSAINKVGGLNDKNCTGKRVLILGASGGVGTFAIQVMKAWDHVTAVCSQDA  
SELVRKLGADDVIDYKSGSVEEQLKSLKPFDFILDNVGGSTETWAPDFLKKWSGATYVTL  
VTPFLNMDRLGIADGMLQTGTVGSKALKHFWKGVHYRWAFFMASGPCLDLIAELVDAG  
KIRPVIEQTFPFKVPFAFLKVERGHARGKTVINNV

>sp|Q86VV8|RTTN\_HUMAN Rotatin OS=Homo sapiens GN=RTTN PE=1 SV=3

MVLAGLIRKLGHQLAEIRERALKSILCKIEHNLCYADLIQERQLFLHLEWFNFPSVPM  
KEEVLNLLSRLVKYPPAVQHLVDVGAVEFLSKLRSNVEPNLQAEIDGILDGLFLLPSEVP  
ALSSASYQTNQTELSKNPEILTGYPQDKSNFQQMEVPPRPVVNQTVKCLKFSTFPWLPL  
TTDRHVLSSNESSLRSSNHTLIWNTCELLKDVIMQDFPAEIFLQRPKIVQSLLSLLKLA  
FGDGKHLRALQSVSLCQQLCMYLRNRLNFHRDPGFFSNKHDTVSQNSSLSYCHEARGTHH  
SQNPSPGSSSPRPSVVGRTGQRPRGDGDWDAASSGSSSHAHVNSRISVHSPDMGHID  
LPELETEDTLELQFQQLSLPQFCVSILESAPLLRTGSRQVIIRVLELLTEDMTLIGEI  
STDIWDDSSLFGIDMKEKLLLVLGALGETMCYHKSSISLEQPEVMLVHHRMAFISISLFA  
VRLQLTLLPVEKASEFLSEPMSTALFLLSLDMPISLEYPNIEHAVVAYLEQLNSENYSIY  
KRTAEAVYSIECTCNFLSDIGKEGKNLLELVELADQALRSFSYHQHFPLIKEIISICK  
IWKSAQASPLLQGESQKVLLHMLSHPLPRVKAETYHCCLEITKECLGVHNVTKPVSSLCN  
GIHFLHPKVLYEISVFGIQEPESEVNTAAKAILLYLLQGRLLMTALTWNKFIESLCPVI  
PILQGYADTEDPLGNCILLSSKASSDTEMLPCTTRLKSMRLRLLVKKPSVRSLALKLLA  
FHLTSEEGADTKRPLIDARVLSRVTDLFIGKKPIELRLDDRRELVIKLETVEKVYEIFTS  
DDVDLVLRKSAAEQLAVIMQDIKMHAVVKKLCLIDKIEYLNCEVSQDGKVVECLVQPCL  
TLRKVLCGDPVMRVSLSQQSSLLTVLFRVSLIFHEDCSVVTEVGALFCLLLFDEVSRMD  
MWSVNPSNKPSPVFSPLPVSVFRYHLPVHVIGHHAVSPYSIVLPLSADCLALKPVSDM  
LRIAWNLSWYHGSDNLLKQMNSETKTQEILDALKLSTEDILTKITHMASGLQDCLHSIV  
QAATHREVRAAVTRMSFYLLNDRLSLKGCPGPCGVTLSLAWHTALNRFLQVLPACTEDE  
KLLIDIHFLNKLKEQRKNSSLELLNWILELLLRHSANPLDLLVLTESQAREETDDIR  
TAVRQQLQKELIALFDTLLNFMEVTDKRCSELLYVFQTQLALKLLQCLKVTDAHPFYGL  
PSLERTLRGMANLTAFPGWSSHSPLTKPLDICVKYLSGLEVITSFYVERGGNAMSFMGK  
GVTKSTILCLLHLSHEMAQAGSLEWMSLWFLPLGSHSEEHIPTQQGLAWLIPLWVDRDP  
EVRFTSLGLGSALTTLETGCVALANSCQNISGGLWGTVVNILLDQSECSMVRREAAFILQ  
NLLVIPMPTEI IKDYTWQGPCVHDEDSGLSLIGKPALQALLYHCHFYEHLNQMVKHCYLG  
RCMFDLNFSAFDRNSESNDLNGLDSDFKFWRAPSRTSQDRDPSSLSTSETTVAPSLGSTE  
FQPLVQSTTLLPEASHDQFVAQGHQESTSPRPPHSSLSAPLPKLCVFVTPSLLSAMCSL  
LDNLLTIAPRDTAKAFRQAHLELLCSIADATLIQTCVQELRALLPSSPPAEHTQAQVSF  
LLEYLSSLSRLLQSCLLVEPDLVIQDELVKPLITNIIGILTICTKDVLDKELISAFYHTW  
THLFNLLAMLLRKAGAITLPFVTVALAKHWTAAIDMFCTCAGLSATCPALYTASLQFLSV  
LLTEEAKGHLQAKSKTHLCCSPTVASLLDDSQENQKSLEQLSDVILQCYEGKSSKDILKR  
VAANALMSLLAVSRRAQKHALKANLIDNCMEQMKHINAQLNLDLSPGKAALKKKEDGVI



KELSIAMQLLRNCLYQNEECKEAALEAHLVPVLHSLWPWILMDDSLMQISLQLLCVYTAN  
FPNGCSSLCWSSCGQHPVQATHRGAVSNSMLCILKLASQMPLENTTVQQMVFMLLSNLA  
LSHDCKGVIQKSNFLQNFLSLALPKGGNKHLSNLTILWLKLLNLISSGEDGQQMILRLDG  
CLDLLTEMSKYKHKSSPLLPLLIHNVCFSPANKPKILANEKIVITVLAACLESENQNAQR  
IGAAALWALIYNYQKAKTALKSPSVKRRVDEAYSLAKKTFPNSEANPLNAYYKCLLENLV  
QLLNSS

>sp|Q9BVN2|RUSC1\_HUMAN RUN and SH3 domain-containing protein 1 OS=Homo sapiens GN=RUSC1  
PE=1 SV=3

MLSPQRALLCNLNIHLQHVSLGLHLSRRPELQEGPLSTPPPGDTGGKESRGPCSGTLV  
DANSNSPAVPCRCCQEHGPGLENRQDPSQEEEGAASPDGCSLSSCDLSPDESPVS  
VYLRDLPGDEDAHPQPSIIIPLEQGSPLASAGPGTCSPDSFCCSPDSCGASSSPDGLDS  
NCNALTTCQDVPSPGLEEEDERAQDLPTSELLEADDGKIDAGKTEPSWKINPIWKIDTE  
KTKAEWKTTENNNTGWKNNGNVNSSWKSEPEKFDSGWKTNTRITDSGSKTDAGKIDGGWR  
SDVSEEPVPHRTITSFHELAQKRKRGPGLPLVPQAKKDRSDWLIVFSPDTELPPSGSPGG  
SSAPPREVTTFKELRSRAPAPPVPPRDPPVGWALVPPRPPPPVPPRRKKNRPGLPQI  
AEGQSEEGRAVSPAAGEEAPAAKEPGAQAGLEVRSSWSFAGVPGAQRLWMAEAQSGTGQL  
QEQKKGLLIIVSVSDVKIISHFGAARNLVQKAQLGDSRLSPDVGHLVLTTLCPALHALVA  
DGLKPFKDLITGQRRSSPWSVVEASVKPGSSTRSLGTLYSQVSRLAPLSSSRSRFHAFI  
LGLLNTKQLELWFSSQLQEDAGLLSLLYLPTGFFSLARGGCPSLSTELLLLQPLSVLTFH  
LDLLFEHHHHLPLGPPQAPAPPGPPPALQQTMAHLHFGGRLAQLRGTSKEAASDPDS  
PNLPTPGSWEQLTQASRVYASGGTEGFPLSRWAPGRHGTAEEGAQERPLPTDEMAPGR  
GLWLGRLFVPGGAENENGALKSRPSSWLPPTVSVLALVKGAPPEMPSPQELEASAP  
RMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRCDRGMEGLVPVGYTSL  
VL

>sp|Q8IZ73|RUSD2\_HUMAN RNA pseudouridylate synthase domain-containing protein 2 OS=Homo  
sapiens GN=RPUSD2 PE=1 SV=2

MWLDRRGWLRLVGLHWRYDLRRPSFTRTWSGDKGPMAETVSTQVGTEGGLRASHQQNGDAG  
GDAKVELSPGPPKAGREVAPVVGGEHPSAAAPGPGKHKRRGATREVRVPPPKRRTG  
VSFGDEHFAETSYYFEGGLRKVRPYFDFRTYCKGRWVGHSLLHVFSTEFRAQPLAYYEA  
AVRAGRLQLNEKPVQDLNIVLKDNDFLRNTVHRHEPPVTAEPIRLLAENEDVVVVDKPSS  
IPVHPCGRFRHNTVIFILGKEHQLKELHPLHRLDRLTSGVLMFAKTAASERIEHQVRDR  
QLEKEYVCRVEGEFPTTEVTCKEPILVVSYKVGVCrvDPRGKPCETVFQRLSYNGQSSVV  
RCRPLTGRTHQIRVHLQFLGHPILNDPIYNSVAWGPSRGRGGYIPKTNEELLRDLVAEHQ  
AKQSLDVLDLCEGDLSPGLTDSTAPSSSELGKDDLEELAAAQKMEEVAAAPQELDTIAL  
ASEKAVETDVMNQETDPLCAECRLVRQDPLPQDLVMFLHALRYKGPGEYFSPMPAWAQD  
DWQKD

>sp|P62266|RS23\_HUMAN 40S ribosomal protein S23 OS=Homo sapiens GN=RPS23 PE=1 SV=3  
MGKCRGLRTARKLSHRRDQKWHDKQYKKAHLGTALKANPFGGASHAKGIVLEKVGVEAK  
QPNSAIRKCVRVQLIKNGKKITAFVPNDGCLNFIEENDEVLVAGFGRKGHAVGDIPGVRF  
KVVKVANVSLLALYKGGKERPRS

>sp|P62701|RS4X\_HUMAN 40S ribosomal protein S4, X isoform OS=Homo sapiens GN=RPS4X PE=1  
SV=2

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDE  
VKKICMQRFIKIDGKVRTDITYAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAK

YKLCKVRKIFVGTGKIPHLVTHDARTIRYPDPLIKVNDTIQIDLETGKITDFIKFDTGNL  
CMVTGGANLGRIGVITNRERHPGSFDDVHVHKDANGNSFATRLSNIFVIGKGNKPWISLPR  
GKGIRLTIAEERDKRLAAKQSSG

>sp|P22090|RS4Y1\_HUMAN 40S ribosomal protein S4, Y isoform 1 OS=Homo sapiens GN=RPS4Y1  
PE=1 SV=2

MARGPKKHLKRVAAAPKHWMCLKLTGVFAPRPSTGPHKLRECLPLIVFLNRNLKYALTGDE  
VKKICMQRFKIDGKVRVDVTYPAGFMDVISIEKTGEHFLVYDTKGRFAVHRITVEEAK  
YKLCKVRKITVGVKIPHLVTHDARTIRYPDPVIKVNDTVQIDLGTGKIINFIKFDTNL  
CMVIGGANLGRGVITNRERHPGSFDDVHVHKDANGNSFATRLSNIFVIGNGNKPWISLPR  
GKGIRLTVAEERDKRLATKQSSG

>sp|P63162|RSMN\_HUMAN Small nuclear ribonucleoprotein-associated protein N OS=Homo  
sapiens GN=SNRPN PE=1 SV=1

MTVGKSSKMLQHIDYMRCLQDGRIFIGTFKAFDKHMLILCDCDEFKIKPKNAKQPE  
REEKRVLGLVLLRGENLVSMTEVGPPPKDTGIARVPLAGAAGGPGVGRAAGRGVPAGVPI  
PQAPAGLAGPVRGVGGSQQVMTPQGRGTVAATAAATAAGAPTQYPPGRGTPPPPVG  
RATPPPGIMAPPPGMRPPMGPPIGLPPARGTPIGMPPPGMRPPPGIRGPPPPGMRPPRP

>sp|Q9BXY4|RSPO3\_HUMAN R-spondin-3 OS=Homo sapiens GN=RSPO3 PE=1 SV=1

MHLRLISWLFIIILNFMEYIGSQNASRGRQRRMHPNVSQGCQGGCATCSYNGCLSCKPR  
LFFALERIGMKQIGVCLSSCPSGYGYTRYPDINKCTKCKADCDCFNKNFCTKCKSGFY  
HLGKCLDNCPEGLEANNHTMECVSIVHCEVSEWNWPSPCTKKGKTCGFKRGTTETRVREII  
QHPSAKGNLCPPTNETRKCTVQRKKCQKGERGKKGRERKRKKPNKGSKEAIPDSKSLES  
SKEIPEQRENKQQQKKRKVQDKQKSVSVSTVH

>sp|P08865|RSSA\_HUMAN 40S ribosomal protein SA OS=Homo sapiens GN=RPSA PE=1 SV=4

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLL  
AARAIVAIENPADSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAREPR  
LLVVTDPRAHQPLTEASYVNLPTIALCNTDSPLRYVDIAIPCNNGAHVGLMWWMLAR  
EVLRMRTISRHPWEVMPDLFYRDPREEIEKEEQAAAEKAVTKEEFQGEWTAPAPEFTA  
TQPEVADWSEGVQPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS

>sp|P82664|RT10\_HUMAN 28S ribosomal protein S10, mitochondrial OS=Homo sapiens GN=MRPS10  
PE=1 SV=2

MAARTAFGAVCRRLWQGLGNFSVNTSKGNTAKNGLLSTNMKWVQFSNLHVDVPKDLTK  
PVVTISDEPDILYKRLSVLVKGHDKAVLDSYEFVAVLAAKELGISIKVHEPPRKIERFTL  
LQSVHIYKKHRVQYEMRTLYRCLELEHLTGSTADVYLEYIQRNLPEGVAMEVTKTQLEQL  
PEHIKEPIWETLSEEKEESKS

>sp|P59025|RTP1\_HUMAN Receptor-transporting protein 1 OS=Homo sapiens GN=RTP1 PE=2 SV=2

MRIFRPWRLRCPALHPLSVFSLRWKLPSLTDETMCKSVTTDEWKVVFYEKMEEAKPA  
DSWDLIIDPNLKHNVLSPGWKQYLELHASGRFHCSWCWHTWQSPYVILFHMFLDRAQRA  
GSVRMRVFKQLCYECGTARLDESSMLEENIEGLVDNLITSLREQCYGERGGQYRIHVASR  
QDNRRHRGEFCEACQEGIVHWKPSEKLEEEATTYTFSRAPSPTKSQDQTGSGWNFCSIP  
WCLFWATVLLLIYQLQFSFRSSV

>sp|Q9BQQ7|RTP3\_HUMAN Receptor-transporting protein 3 OS=Homo sapiens GN=RTP3 PE=1 SV=1

MAGDTEVWKQMFQELMREVKPWHRWTLRPDKGLLPNVLPKPGWMQYQQWTFARFQCSSCSR  
NWSAQVLVLFHMNWSEEKSRGQVKMRVFTQRCKKCPQLFEDPEFTQENISRILKNLVF  
RILKKCYRGRFQLIEEVPMIKDISLEGPHNSDNCEACLQGFCAGPIQVTSLPSPQTPRVH

SIYKVEEVVKPWASGENVYSYACQNHICRNLSIFCCCVILIVIVVVKTAI

>sp|P62847|RS24\_HUMAN 40S ribosomal protein S24 OS=Homo sapiens GN=RPS24 PE=1 SV=1  
MNDTVTIRTRKFMNRLQRKQMVIDLHPGKATVPKTEIREKLAKMYKTPDVIFVFGF  
RTHFGGKTTGFGMIYDSLDAKKNEPKHRLARHGLYEKKKTSRKQRKERKNRMKKVRGT  
AKANVGAGKKPKE

>sp|P62081|RS7\_HUMAN 40S ribosomal protein S7 OS=Homo sapiens GN=RPS7 PE=1 SV=1  
MFSSSAKIVKPNGEKPDEFESGISQALLELEMNSDLKAQLRELNITAAKEIEVGGGRKAI  
IIFVPVQLKSFQKIQVRLVRELEKKFSGKHVVFIAQRRILPKPTRKSRTKNKQKRPSR  
TLTAVHDAILEDLVFPSEIVGKRIRVKLDGSRLIKVHLDKAAQNNVEHKVETFSGVYKKL  
TGKDVNFEPFQQL

>sp|P39019|RS19\_HUMAN 40S ribosomal protein S19 OS=Homo sapiens GN=RPS19 PE=1 SV=2  
MPGVTVKDVNQEFVRALAAFLKKSGLKVPWVDTVKLAKHKELAPYDENWIFYTRAAS  
ARHLYLRGGAGVGSMTKIYGGQRNGVMPSHFSSRGSKSVARRVLQALEGLKMVEKDQDGG  
RKLTQQGQRDLRIAGQVAAANKKH

>sp|P61247|RS3A\_HUMAN 40S ribosomal protein S3a OS=Homo sapiens GN=RPS3A PE=1 SV=2  
MAVGKNKRLTKGGKKGAKKKVDPFSKKDWYDVKAPAMFNIRNIGKTLVTRTQGTIASD  
GLKGRVFEVSLADLQNDEVAFRKFKLITEDVQGNCLTNFHGMDLTRDKMCSMVKKWQTM  
IEAHVDVKTTDGYLLRLFCVGFKKRNNQIRKTSYAQHQVQRQIRKKMMEIMTREVQTND  
LKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFELGKLMELHGEGSSSGK  
ATGDETGAKVERADGYEPPVQESV

>sp|Q8TD47|RS4Y2\_HUMAN 40S ribosomal protein S4, Y isoform 2 OS=Homo sapiens GN=RPS4Y2  
PE=2 SV=3

MARGPKKHLKRVAAAPHWMLDKLTGVFAPRPSTGPHKLRECLPLIVFLNRNLKYALTGDE  
VKKICMQHFLKIDGKVRVDITYPAGFIDVISIEKTGEHFRLVYNTKGCFVHRITVEEAK  
YKLCKVRKITVGTKGIPHLVTHDARTIRYPDPLIKVNDTVQIDLGTGKITSFIKFDGTV  
CMVIAGANLGRGVITNRERHPGSCDVVHVKDANGNSFATRISNIFVIGNGNKPWISLPR  
GKGIRLTIAEERDKRLAAKQSSG

>sp|P46782|RS5\_HUMAN 40S ribosomal protein S5 OS=Homo sapiens GN=RPS5 PE=1 SV=4  
MTEWETAAPAAVETPDIKLFGKSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKR  
FRKAQCPIVERLTNSMMHGRNNGKKLMTVRIVKHAFEIHLTGENPLQVLVNAIINSG  
PREDSTRIGRAGTVRRQAVDVSPLRRVNQAIWLLCTGAREAAFRNIKTIAECLADELINA  
AKGSSNSYAIKKKDELERVAKSNR

>sp|P62241|RS8\_HUMAN 40S ribosomal protein S8 OS=Homo sapiens GN=RPS8 PE=1 SV=2  
MGISRDNWHKRRKTGGKRKPYHKKRYELGRPAANTKIGPRRIHTVRVRGGNKKYRALRL  
DVGNSFWGSECCTRKTRIIDVVYNASNNELVRTKTLVKNCIVLIDSTPYRQWYESHYALP  
LGRKKGAKLTPEEEEILNKKRSKKIQKKYDERKKNAKISSLLEEQQGKLLACIASRPG  
QCGRADGYVLEGKELEFYLRKIKARKGK

>sp|Q9BUV0|RSRP1\_HUMAN Arginine/serine-rich protein 1 OS=Homo sapiens GN=RSRP1 PE=1 SV=2  
MSNYVNDMWPGSPQEKDSPSTSRSGGSSRLSSRSRSRFSRSHSRVSSRFSSRSRRS  
KSRSRSRRRHQRKYRYSRSYSRSRSRSRRYRERRYGFTRYYRSPSRYSRSRSRSR  
SRGRSYCGRAYAIARGQRYYGFGRTVYPEEHSRWRDRSRTSRSRTPFRLSEKDRMELLE  
IAKTNAAKALGTTNIDLPAASLRTVPSAKETSRGIGVSSNGAKPELSEKVTEDGTRNPNEK  
PTQQRSTAFSSNNSVAKPIQKSAKAATEEASSRSPKIDQKKSPYGLWIPI

>sp|P46781|RS9\_HUMAN 40S ribosomal protein S9 OS=Homo sapiens GN=RPS9 PE=1 SV=3

MPVARSWVCRKTYVTPRRPFEEKSRLDQELKLIGEYGLRNKREVWRVKFTLAKIRKAAREL  
LTLDEKDPRRLFEGNALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLQTQVFKLGLA  
KSIHHARVLIRQRHIVRKQVNNIPSFIVRLDSQKHIDFSLRSPYGGGRPGRVKRKNNAK  
GQGGAGAGDDEED

>sp|Q6UXX9|RSP02\_HUMAN R-spondin-2 OS=Homo sapiens GN=RSP02 PE=1 SV=2

MQFRLFSFALIILNCMDYSHCQGNRWRSSKRASYVSNPICKGCLSCSKDNGCSRCQQKLF  
FFLRREGMRQYGECLHSCPSGYGHRAPDMNRCARCRIENCDSFCKDFCTKCKVGFYLH  
RGRCFDECPDGFAPLEETMECEVEGCEVGHWSEWGTCSRNNRTCGFKWGLETRTRQIVKKP  
VKDTILCPTIAESRRCKMTMRHCPGGKRTPKAKEKRNNKKKKRKLIERAQEQHSVFLATDR  
ANQ

>sp|Q96IZ7|RSRC1\_HUMAN Serine/Arginine-related protein 53 OS=Homo sapiens GN=RSRC1 PE=1 SV=1

MGRSSDTEEESRSKRKKKHRRRSSSSSSSDSRTYSRKKGGRKSRSKSRWSRDLQPRSH  
SYDRRRRRHSSSSSYGSRRKRSRSGRGKSYRVQRSRSKSRTRRSRSPRLRSHSRS  
SERSSHRRTRSRSDREERRKGRDKEKREKDKGDKDELHNIKRGESGNIKAGLEHLPPA  
EQAKARLQLVLEAAAKADEALKAKERNEEEAKRRKEEDQATLVEQVKRVKEIEAIESDSF  
VQQTFRSSKEVKKSVEPSEVKATSTSGPASAVADPPSTEKEIDPTSIPTAIKYQDDNSL  
AHPNLFIEKADAEEKWFKRLIALRQERLMGSPVA

>sp|Q9NVS2|RT18A\_HUMAN 28S ribosomal protein S18a, mitochondrial OS=Homo sapiens GN=MRPS18A PE=1 SV=1

MAALKALVSGGRLLRGLLAGPAATSWRLPARGFREVVETQEGKTTIEGRITATPKES  
PNPPNPSGQCPICRWNLKHKYNVDDVLLLSQFIRPHGGMPLPRKITGLCQEEHRKIEECVK  
MAHRAGLLPNHRPRLPEGVVPKSKPQLNRYLTRWAPGSVKPIYKKGPRWNRVRMPVGSPL  
LRDNVCYSRTPWKLYH

>sp|Q9Y3D9|RT23\_HUMAN 28S ribosomal protein S23, mitochondrial OS=Homo sapiens GN=MRPS23 PE=1 SV=2

MAGSRLETVGSIFSRTDLVRAGVLKEKPLWFDVYDAFPPLREPVFQRPVRVYGKAKAPI  
QDIWYHEDRIRAKFYSVYGSGQRAFDLFNPNFKSTCQRFVEKYTELQKLGETDEEKLVE  
TGKALLAEGVILRRVGEARTQHGGSHVSRKSEHLSVRPQTALEENETQKEVPQDQHLEAP  
ADQSKGLLPP

>sp|Q9BYN8|RT26\_HUMAN 28S ribosomal protein S26, mitochondrial OS=Homo sapiens GN=MRPS26 PE=1 SV=1

MLRALSRLGAGTPCRPRAPLVLPARGRKRHDPLAKSKIERNMPPAVDPAEFFVLMERY  
QHRYQTVRALRMEFVSEVQRKVHEARAGVLAERKALKDAAEHRELMAWNQAENRRLHEL  
IARLRQEEREQEQRQALEQARKAEVQAWAQRKEREVLQLQEEVKNFITRENLEARVEAA  
LDSRKNNWAITREGLVVRPQRRDS

>sp|Q9NP92|RT30\_HUMAN 28S ribosomal protein S30, mitochondrial OS=Homo sapiens GN=MRPS30 PE=1 SV=2

MAAARCWRPLLRGPRLSLHTAANAAATATETTCQDVAATPVARYPPIVASMTADSKAARL  
RRIERWQATVHAAESVDEKLRLITKMQFMKYMVYPQTFALNADRWYQYFTKTVFLSGLPP  
PPAEPEPEPEPEPALDLAALRAVACDCLLQEHFYLRRRRRRVHRYEESEVISLPFLDQL  
VSTLVGLLSPHPALAAAALDYRCPVHFYVWRGEEIIPRGHRRGRIDDLRYQIDDKPNNQ  
IRISKQLAEFVPLDYSVPIEIPITIKCPDKLPFLFKRQYENHIFVGSKTADPCCYGHTQFH  
LLPDKLRERLLRQNCADQIEVVFRANAIASLFAWTGAQAMYQGFWSEADVTRPFVSQAV

ITDGKYFSFFCYQLNTLALTTQADQNNPRKNICWGTQSKPLYETIEDNDVKGFNDDVLLQ  
IVHFLNRPKEEKSQLEN

>sp|P82930|RT34\_HUMAN 28S ribosomal protein S34, mitochondrial OS=Homo sapiens GN=MRPS34  
PE=1 SV=2

MARKKVRPRLIAELARRVRALREQLNRPRDSQLYAVDYETLTRPFSGRRLPVRWADVRR  
ESRLQLLGRLLPLFGLGRLVTRKSWLWQHDEPCYWRLTRVRPDYTAQNLDHGKAWGILTF  
KKGTESEAREIEHVMYHDWRLVPKHHEEAFTFTAPEDSLASVPYPPLLRAMI IAERQK  
NGDTSTEEPMLNVQIRMEPWDYPAKQEDKGRAKGPV

>sp|P82909|RT36\_HUMAN 28S ribosomal protein S36, mitochondrial OS=Homo sapiens GN=MRPS36  
PE=1 SV=2

MMGSKMASASRVQVVKPHTPLIRFPDRDNPKPNVSEALRSAGLPSHSSVISQHSKGSK  
SPDLLMYQGPPDAEIIKTLPQKYRRKLVSQEEMEFIQRGGPE

>sp|Q9Y3I0|RTCB\_HUMAN tRNA-splicing ligase RtcB homolog OS=Homo sapiens GN=RTCB PE=1 SV=1

MSRSYNDELQFLEKINKNCWRIKKGFVPMQVEGVFYVNDALDKLMFEELRNACRGGGVG  
GFLPAMKQIGNVAALPGIVHRSIGLPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGFDI  
NCGVRLRLTNLDES DVQPVKEQLAQAMFDHIPVGVGSKGVIPMNAKDLEEALMGVDWSL  
REGYAWAEDKEHCEEYGRMLQADPNKVSARAKKRGLPQLGTLGAGNHYAEIQVVDEIFNE  
YAAKMGIDHKGQVCVMHSGSRGLGHQVATDALVAMEKAMKRDKII VNRQLACARIAS  
PEGQDYLKGMAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLHLV IYDVSHNIAKVEQ  
HVVDGKERTLLVHRKGSTRAFPHPHPLIAVDYQLTGQPVLI GGTMGTCSYVLTGTGEQGMT  
ETFGTTCGAGRALSRASRRNLDFQDVLDKLADMGIAIRVASPKLVMEAPESYKNVTD  
VVNTCHDAGISKKAIKLRPIAVIKG

>sp|A6NKG5|RTL1\_HUMAN Retrotransposon-like protein 1 OS=Homo sapiens GN=RTL1 PE=3 SV=3

MIPESEDSFETMMEHKNPSSKQMESSESSNTTEATSGSGVRGEAGPASGPAQEKEPPS  
GPLQEMEELPTDLLQDMEEPSSGPRKEIEDPPNDLLQDLEESCNGSHQARGDPLSGASDR  
MKEASVNP SGAREEQEAHTDLKESGREETPQEQNQTEHSTAELMAMVRSIISLYFRMQDL  
KEQQRVAEEILIKGINAGQLPAPKHFSGDRREFHEFIVLCQLTLQSYPRMFYNDRLRVGY  
VINHLSGLALEWAKALLQENSPLIGDFPAFLEAMSEVFEYRQALRVAAEAMFTIRQGGRS  
ATEYIDEFQSLVPILGWPDEVLAHLQGLNEEIRHYLFRVPQPDSDLIVLILQIEEK  
LAERRAMLRLPEARPRNLTWIDSPAPERWMVSSWLPSEVHPDINRAHLFLLLMVRVNPY  
HSVAVQALVDSGADGNFMDKFAQEYHYVELYEKYPQPVQSVDSGLIGNEPVWLYTEPLV  
CIHQNHQESIEFDIVSPNFSVVLGIRWLRVHAPEVDWIKGRCTFHSPYCLKNCFRPPPP  
CIALERHGMSLLPGLPHPYSDLADVFNPKAEDETSQPSDGSDDLSESESELQQAGD  
SDHSETFYECSTAPWEPVGARMQERARLQEEYWDLQDMLTNRQDYIQMIPELFDQLHGA  
EWF TKLELRGTIVEESVNGHRTEDVWKAAGLELEEMKSYQPFALSPDPIIPQNV IHFIL  
KDMLGFFVLSYGQEVLIYSMSQEEHLHHVRQVLVFRHHNVYCSLDKSQFHRQTVEFLGF  
VVT PKGVKLNKNVMTIITGYTPGSKLSLRNFIEFVFPYRHFVERFSIIAEPLVRQLLSS  
YQFYWGVEEQEAFECLKRAFRKAPLLHHPKPQNPFYLETGVTGTALHASLIQIDDQTGKR  
ACCAFYSRNISPIEVEYSQAEMKILPIRAAFMVWCRYLENTEEPIMILLNTEDLASLNND  
RLTVLLPGHWVFFFSHFNFDMELPEQDGGRALPPVRNLWRRAFRQNTAARQTLLLASR  
GFPRDPSTESGEEENEEQDELNEQILRQELLAMIPIDQILNSFLAHFSMAQIRAVILHFF  
RGLLYWKNTLALAAILVLLRVRQCLSLRPAPAMRVARPQPQRSLRLILDSSLIAGSSITT  
AITQLLTQMPALVGANTIPAQELAELFLGPGRWQRNALHSQAHRGLQFTPGFWLTLCEFF  
GVRVTPQEGHLPALRQNRYLELHVVGDEDVVLREALQDDLQRYRQCGLHDGLQDTSQDKQ

DNDVQEAPPSHTAATHPPRPRHMDPQVLEFLGSRLHHIHSADGQLHLLSREQAARALSQ  
FLTLIYRRALPIPAWESQPREQARLEELPDEDEDANLD

>sp|P14678|RSMB\_HUMAN Small nuclear ribonucleoprotein-associated proteins B and B'  
OS=Homo sapiens GN=SNRPB PE=1 SV=2

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMLILCDCDEFKRIKPKNSKQAE  
REEKRVLGLVLLRGENLVSMTEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPM  
PQAPAGLAGPVRGVGGPSQQVMT PQGRGTVAATAAATASIAGAPTQYPPGRGGPPPPMG  
RGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPPGMRGPPPPGMRPPRP

>sp|Q96DX4|RSPRY\_HUMAN RING finger and SPRY domain-containing protein 1 OS=Homo sapiens  
GN=RSPRY1 PE=1 SV=1

MIVFGWAVFLASRLGQGLLLTLEEHIHFLGTGGAATTMGNSCICRDDSGTDDSVDTQQ  
QQAENSAVPTADTRSQRDPVRPPRRGRGPHEPRRKKQNV DGLVLDLAVIRTLVDNDQE  
PPYSMITLHEMAETDEGWLDVVQSLIRVIPLEDPLGPAVITLLLDECPLPTKDALQKLTE  
ILNLNGEVACQDSSHPAKHRNTSAVLGCLAEKLAGPASIGLLSPGILEYLLQCLKLQSH  
TVMLFALIALEKFAQTSENKLTI SESSISDRLVLTLESWANDPDYLKRQVGFCAQWSLDNL  
FLKEGRQLTYEKNLSSIRAMLSNDVSEYLKISPHGLEARCDASSFESVRCTFCVDAGV  
WYYEVTVVTSQVMQIGWATRDSKFLNHEGYGIGDDEYSCAYDGCRLI WYNARSKPHIHP  
CWKEGDTVGFLLDLNEKQMIFFLNGNL PPEKQVFSSTVSGFFAAASFMSYQQCEFNFGA  
KPFKYPPSMKFSTFNDYAFLTAEKII LPRHRRLLALLKQVSIRENCCSLCCDEVADTQLK  
PCGHSDLCCMDALQLETCPLCRKEIVSRIRQISHIS

>sp|P82675|RT05\_HUMAN 28S ribosomal protein S5, mitochondrial OS=Homo sapiens GN=MRPS5  
PE=1 SV=2

MATAVRAVGCLPVLCSGTAGHLLGRQCSLNTLPAASILAWKSVLGNHGLSSLGTRDTHPY  
ASLSRALQTQCCISSPSHLSMQQYRYPYSFFTKLTAD ELWKGALAETGAGAKKGRGKRTKK  
KKRKDLNRGQII GEGRYGFLWPLGNVPLMKN GAVQTIAQRSKEEQEKVEADMIQQREEWD  
RKKKMKVKRERGWGNSWGGISLGPPDPGPGCETYEDFDTRILEVRNVFTMTAKEGRKKS  
IRVLVAVGNGKGAAGFSIGKATDRMDAFRKA KNRAVHHLHYIERYEDHTIFHDISLRFKR  
THIKMKKQPKGYGLRCHRAIITICRLIGIKDMYAKVSGSINMLSLTQGLFRGLSRQETHQ  
QLADKKGLHVVEIREECGLPIVVASPRGPLRKDPEPEDEVDPVKLDWEDVKTAQGMKRS  
VWSNLKRAAT

>sp|P82932|RT06\_HUMAN 28S ribosomal protein S6, mitochondrial OS=Homo sapiens GN=MRPS6  
PE=1 SV=3

MPRYELALILKAMQRPETAATLKRTIEALMDRGAIVRDLENLGERALPYRISAHSQQHNR  
GGYFLVDFYAPTA AVESMVEHL SRDIDVIRGNIVKHPLTQELKECEGIVPVPLAEKLYST  
KKRKK

>sp|Q9Y2R9|RT07\_HUMAN 28S ribosomal protein S7, mitochondrial OS=Homo sapiens GN=MRPS7  
PE=1 SV=2

MAAPAVKVARGWSGLALGVRAVLQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPV EELTE  
EEKYVRELKKTQLIKAAPAGKTSSVFEDPVISKFTNMMIGGNKVLARSLMIQTLEAVKR  
KQFEKYHAASAEQATIERNPYTIFHQALKNCEPMIGLVPILKGGRFYQVPVPLPDRRRR  
FLAMKWMITECRDKKHQRTLMP EKLSHKLLEAFHNQGPVIKRK HDLHKMAEANRALAHYR  
WW

>sp|P82650|RT22\_HUMAN 28S ribosomal protein S22, mitochondrial OS=Homo sapiens GN=MRPS22  
PE=1 SV=1

MAPLGTTVLLWSLLRSSPGVERVCFRARIQPHWGGLLQPLPCSFEMGLPRRRFSSEAAES  
GSPETKKPTFMDEEVQSILTKMTGLNLQKTFKPAIQELKPPTYKLMTQAQLEEATRQAVE  
AAKVRCLKMPPVLEERVPIINDVLAEDKILEGTETTKYVFTDISYSIPHRERFIVREPSGT  
LRKASWEERDRMIQVYFPKEGRKILTPIIFKEENLRMTYSQDRHVDVLNLCFAQFEPDST  
EYIKVHHKTYEDIDKRKGYDLLRSTRYFGGMVWYFVNNKKIDGLLIDQIQRDLIIDATNL  
VQLYHVLHPDGQSAQGAQDQAAEGINLIKVFATKTEAQKGAYIELTLQTYQEALSRHSAAS

>sp|Q92541|RTF1\_HUMAN RNA polymerase-associated protein RTF1 homolog OS=Homo sapiens  
GN=RTF1 PE=1 SV=4

MRGRLCVGRAAAAAA VAVPLAGGQEGSPGGGRRGSRGTTMVKKRKGRRVIDSDTEDSGS  
DENLDQELLSLAKKRKSDSEEKEPPVSQPAASSDSETSDDDEWTFGSNKNKKKGKARKI  
EKKGTMKKQANKTASSGSSDKSSAESSAPEEGEVSDSDSNSSSSSSSDSSSEDEEFHD  
GYGEDLMGDEEDRARLEQMTEKEREQELFNRIEKREVLKRRFEIKKKLKTAKKKEKKEKK  
KKQEEQEKKKLTQIQESQVTSNKKERRSKRDEKLDKKSQAMEELKAEREKRNRTAELL  
AKKQPLKTSEVYSDDEEEEDDKSSEKSDRSSRTSSSDEEEKEEIPPKSQPVSLPEELN  
RVRLSRHKLRLWCHMPFFAKTVTGCFVRIGIGNHNSKPVYRVAEITGVVETAKVYQLGGT  
RTNKGQLRLRHGNDQVRFRLEFVSNQEFTESEFMKWKEAMFSAGMQLPTLDEINKKELSIK  
EALNYKFNDQDIEEIVKEKERFRKAPPNYAMKKTQLLKEKAMAEDLGDQDKAKQIQDQLN  
ELEERAELDRQRTKNISAIISYINQRNREWNIVESEKALVAESHNMKNQMDPFTRRQCK  
PTIVSNSRDPVQAAILAQLNAKYGSGVLPDAPKEMSKGQKDKDLNSKSASDLSDFK  
VHDFDVKIDLVPSSESKALAITSKAPPAKDGAPRRSLNLEDYKKRRGLI

>sp|Q9NUL5|RYDEN\_HUMAN Repressor of yield of DENV protein OS=Homo sapiens GN=RYDEN PE=1  
SV=2

MSQEGVELEKSVRRLREKFHGVSSKKAGALMRKFGSDHTGVGRSIVYGVKQKDGQELSN  
DLDAQDPPEDMKQDRDIQAVATSLPLTEANLRMFQRAQDDLIPAVDRQFACSSCDHVWW  
RRVPQRKEVSRCKCRKRYEPVPADKMWGLAEFHCPKCRHNFRGWAQMGSPSPCYGCGFP  
VYPTRILPPRWRDPRRSTHTHSCSAADCYNRREPHVPGTSCAHPKSRKQNHLPKVLHP  
SNPHISSGSTVATCLSQGGLLEDLDNLILEDLKEEEEEEEVEDEEGPRE

>sp|P34925|RYK\_HUMAN Tyrosine-protein kinase RYK OS=Homo sapiens GN=RYK PE=1 SV=2

MARGAARLGRPGRSCLPGPALRAAAAPALLARCAVAAAAGLRAAARPRPPELQSASAGPS  
VSLYLSEDEVRRILGLDAELYYVRNDLISHYALSFNLLVPSETNFLHFTWHAKSKVEYKL  
GFQVDNLAMDMPQVNISVQGEVPRTL SVFRVELSCTGKVDSEVMILMQLNLTVNSSKNF  
TVLNFKRRKMCYKKLEEVKTSALDKNTSRTIYDPVHAAPTSTRVFYISVGCCAVIFLV  
AII LAVLHLHNMKRIELDDSISSSSQGLSQPSTQTTQYL RADTPNNATPITSYPTLRI  
EKNDLRSVTLLEAKGVKDIAISRERITLKDVLQEGTFGRIFHGILIDEKDPNKEKQAFV  
KTVKDQASEIQVTMMLTESCKLRGLHHRNLLPITHVCIEEGECPMVILPYMNWGNLKLFL  
RQCKLVEANNPQAISQQDLVHMAIQIACGMSYLARREVIHKDLAARNCVIDDTLQVKITD  
NALSRLDFPMDYHCLGDNENRPVRWMALES LVNNEFSSASDVWAFGVT LWELMTLGQTPY  
VDIDPFEMAAYLKDGYRIAQPINCPDELFAVMACCWALDPEERPKFQQLVQCLTEFHAAL  
GAYV

>sp|P04271|S100B\_HUMAN Protein S100-B OS=Homo sapiens GN=S100B PE=1 SV=2

MSELEKAMVALIDVFHQYSGREGDKHKLKSELKELINNELSHFLEEIKEQEVVDKVMET  
LDNDGDGECDFQEFMAFVAMVTTACHEFFEHE

>sp|P29034|S10A2\_HUMAN Protein S100-A2 OS=Homo sapiens GN=S100A2 PE=1 SV=3

MMCSSLEQALAVLVTTFHKYSCQEGDKFKLSKGEMKELHKLPSFVGEKVDEEGLKKLM

GSLDENSDQQVDFQEYAVFLALITVMCNDFQGCPRDP

>sp|P26447|S10A4\_HUMAN Protein S100-A4 OS=Homo sapiens GN=S100A4 PE=1 SV=1

MACPLEKALDMVSTFHKYSGKEGDKFKLNKSELKELLTRELPSTFLGKRTDEAAAFQKLMS

NLDSNRDNEVDFQEYCVFLSCIAMMCNEFFEGFPDKQPRKK

>sp|P80511|S10AC\_HUMAN Protein S100-A12 OS=Homo sapiens GN=S100A12 PE=1 SV=2

MTKLEEHLEGIVNIFHQYSVRKGHFDLTKGELKQLLTKELANTIKNIKDKAVIDEIFQG

LDANQDEQVDFQEFISLVAIALKAAHYHHTHKE

>sp|Q9BXP2|S12A9\_HUMAN Solute carrier family 12 member 9 OS=Homo sapiens GN=SLC12A9 PE=1 SV=1

MASESSPLLAYRLLGEEGVALPANGAGGPGGASARKLSTFLGVVPTVLSMFSIVVFLRI

GFVVGHAGLLQALAMLLVAYFILALTVLSVCAIATNGAVQGGGAYFMISRTLGPVEVGSI

GLMFYLANVCGCAVSLGLLVESVLDVFGADATGPSGLRVLPPQGYGNLLYGSLLLGLVGG

VCTLGAGLYARASFLTFLVSGSLASVLISFVAVGPRDIRLTPRPGPNGSSLPPRFHFT

GFNSSTLKDNLGAGYAEDYTTGAVMNFASVFAVLFNGCTGIMAGANMSGELKDPSRAIPL

GTIVAVAYTFFVYVLLFFLSSFTCDRTLQEDYGFFRAISLWPLVLIGIYATALSASMS

SLIGASRILHALRDDLFVILAPAKVVSRRGNPWAVALYSWGLVQLVLLAGKLNLTAAV

VTVFYLVAYAANDLSCLSLWASAPNFRPTFSLSWHTCLLGVASCLLMMFLISPGAAGG

SLLLMGLLAALLTARGGPSSWGYVSQALLFHQVRKYLLRLDVRKDHVKFWRPQLLLLVGN

PRGALPLLRLANQLKKGGLYVLGHVTLGDLSLPSDPVQPQYGAWLSLVDRAQVKAFVDL

TLSPSVRQGAQHLLRISGLGMPNTLVLGFYDDAPPQDHFLTDPAFSEPADSTREGSSP

ALSTLFPPPRAPGSPRALNPQDYVATVADALKMKNVVLARASGALPPERLSRSGSGTSQ

LHHVDVWPLNLLRPRGGPGYDVCGLFLLQMATILGMVPAWHSARLRIFLCLGPREAPGA

AEGRRLALLSQLRIRAEVQEVVWEGEGAGAGEPEAEEDGDFVNSGRGDAAEALARSANAL

VRAQQGRGTGGGPGGPEGDAEGPITALTFLYLPRPPADPARYPRYLALLETLTRDLGPT

LLVHGVTPTCTDL

>sp|Q86YT5|S13A5\_HUMAN Solute carrier family 13 member 5 OS=Homo sapiens GN=SLC13A5 PE=1 SV=1

MASALSYVSKFKSFVILFVTPLLLLPLVILMPAKFVRCAYVILMAIYWCTEVIPLAVTS

LMPVLLFPLFQILDSRQVCVQYMKDTNMLFLGGLIVAVAVERNLHKRIALRTLLWVGAK

PARLMLGFMGVTALLSMWISNTATTAMMVPIVEAILQQMEATSAATEAGLELVDKGKAKE

LPQSQVIFEGPTLGQEDQERKRLCKAMTLCICYAASIGGTATLTGTGPNVLLGQMNEL

FPDSKDLVNFASWFAFAFPNMLVMLLFAWLWLQFVYMRNFNFKKSWGCGLESKKNEKAALK

VLQEEYRKLGPLSFAEINVLCFFLLVILWFSRDPGFMPGWLTVAWVEGETKYVSDATVA

IFVATLLFIVPSQKPKFNFRSQTEERKTPFYPPPLLDWKVTQEKVPWGIVLLGGGFAL

AKGSEASGLSVWMGKQMEPLHAVPPAAITLILSLLVAVFTECTSNVATTTLFLPIFASMS

RSIGLNPLYIMLPCTLSASFAMLPVATPPNAIVFTYGLKVADMVKTGVIMNIIGVFCV

FLAVNTWGRAIFDLDFPDWANVTHIET

>sp|Q92503|S14L1\_HUMAN SEC14-like protein 1 OS=Homo sapiens GN=SEC14L1 PE=1 SV=2

MVQKYQSPVRVYKYPFELIMAAYERRFPTCLIPMFVGSDTVNEFKSEDGAIHVIERRCK

LDVDAPRLKKIAGVDYVYFVQKNSLNSRRTLHIEAYNETFSNRVINEHCCTVHPEN

EDWTCFEQSASLDIKSFFGFESTVEKIAMKQYTSNIKKGKEIIEYYLRQLEEGITFVPR

WSPPSITTSSETSSSSSKQAASMAVVIPEAALKEGLSGDALSSPSAPEPVVGTDPDDKLD

ADYIKRYLGDLTPLQESCLIRLRQWLQETHKGKIPKDEHILRFLRARDFNIDKAREIMCQ

SLTWRKQHQVDYIILETWTPQVLQDYAGGWHHDKDGRPLYVLRGLQMDTKGLVRALGE



EALLRYVLSINEEGLRCEENTKVFGRPISWTCCLVDLEGLNMRHLWRPGVKALLRIIEV  
VEANYPETLGRLLILRAPRVFPVLWTLVSPFIDDNTRRKFLIYAGNDYQGPGLLDYIDK  
EIIPDFLSGECMCEVPEGGLVPKSLYRTAELENEEDLKLWTETIYQSASVFKGAPHEILI  
QIVDASSVITWDFDVCCKGDIVFNIYHSKRSPQPPKKDSLGAHSITSPGGNNVQLIDKVWQ  
LGRDYSMVESPLICKEGESVQGSHTVTRWPGFYILQWKFHSMPCAASSLPRVDDVLASLQ  
VSSHCKCKVMYYTEVIGSEDFRGSMTSLESSHSGFSQLSAATTSSSQSHSSSMISR

>sp|Q9UDX4|S14L3\_HUMAN SEC14-like protein 3 OS=Homo sapiens GN=SEC14L3 PE=1 SV=1

MSGRVGDLSPKQAETLAKFRENVDVLPALPNDDYFLLRWLRARNFDLQKSEALLRKYM  
EFRKTMIDHILDWQPPEVIQKYPGGLCGYDRDGCVPWYDIIGPLDPKGLLFSVTKQDL  
LKTKMRDCERILHECDLQTERLGKKIETIVMIFDCEGLGLKHFWKPLVEVYQEFFGLLEE  
NYPETLKFMLIVKATKLFVGYNLMKPFLSEDTRRKIIVLGNNWKEGLLKLISPEELPAQ  
FGGTLTDPDGNPKCLTKINYGGEIPKSMYVRDQVKTYEHSVQINRGSSHQVEYEILFPG  
CVLRWQFSSDGADIGFGVFLKTKMGERQRAGEMTDVLPQRYNAHMPEDGNLTCSEAGV  
YVLRFDNTYSFVHAKKVSFTVEVLLPDEGMQKYDKELTPV

>sp|O43304|S14L5\_HUMAN SEC14-like protein 5 OS=Homo sapiens GN=SEC14L5 PE=2 SV=3

MVQRYQSPVRVYKYPFELVMAAYEKRFPTCPQIPVFLGSEVLRESRSPDGAVHVVERSCR  
LRVDAPRLLRKIAGVEHVVFVQTNILNWKERTLLIEAHNETFANRVVNEHCSTYVHPEN  
EDWTCFEQASLDIRSFFGFENALEKIAMKQYTANVKGKEVIEHYLNELISQGTSHIPR  
WTPAPVREEDARNQAGRPDPSSLEAHGPRSTLGPALAVSMDGDKLDADYIERCLGHLTP  
MQESCLIQLRHWLQETHKGKIPKDEHILRFLRAHDFHLDKAREMLRQSLSWRKQHQVDLL  
LQTWQPPALLEEFYAGGWHYQDIDGRPLYILRLGQMDTKGLMKAVGEEALLRHVLSVNEE  
GQKRCEGSTRQLGRPISWTCCLLDLEGLNMRHLWRPGVKALLRMIEVVEDNYPETLGRLL  
IVRAPRVFPVLWTLISPFINENTRRKFLIYSGSNYQGPGLVDYLDREVIPDFLGGESVC  
NVPEGGLVPKSLYMTREEQEHTDQLWQWSETYHSASVLRGAPHEVAVEILEGESVITWDF  
DILRGDVVFSLYHTKQAPRLGAREPGTRASGQLIDKGWVLGRDYSRVEAPLVCREGESIQ  
GSHVTRWPGVYLLQWQMHSPPSSVACSLPGVDDVLTALHSPGPKCKLLLYCEVLASEDFR  
GSMSSLESCTSGFSQLSAATSSSSSGQSHSSSLVSR

>sp|Q9Y2C5|S17A4\_HUMAN Probable small intestine urate exporter OS=Homo sapiens GN=SLC17A4  
PE=2 SV=1

MSTGPDVKATVGDISSDGNLVAQEECSRKGFCSVRHGLALILQLCNFSIYTQQMNLSIA  
IPAMVNNTAPPSQPNASTERPSTDSQGYWNETLKEFKAMAPAYDWSPEIQGIILSSLNYG  
SFLAPIPSGYVAGIFGAKYVVGAGLFISSFLTIFIPLAANAGVALLIVLRIVQGIAQVMV  
LTGQYSIWVKWAPPLERSQLTTIAGSGSMLGSFIVLLAGGLLCQTIGWPYVFYIFGGIGC  
ACCPWFPLIYDDPNHPFISAGEKRYIVCSLAQQDCSPGWSLPIRAMIKSLPLWAILVS  
YFCEYWLFTIMAYTPTYISSVLQANLRDSGILSALPFVVGICICIILGGLLADFLLSRKI  
LRLITIRKLFTAIGVLFPSVILVSLPWVRSSHMTMTFLVLSSAISSFCESGALVNFLDI  
APRYTGFLKGLLQVFAHIAGAISPTAAGFFISQDSEFGWRNVFLLSAAVNISGLVFYLIF  
GRADVQDWAKEQTFTHL

>sp|P62841|RS15\_HUMAN 40S ribosomal protein S15 OS=Homo sapiens GN=RPS15 PE=1 SV=2

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQMLQLYSARQRRRLNRGLRRKQHSLLKRL  
RKAKKEAPPMKPEVVKTHLRDMIILPEMVGSMVGVYNGKTFNQVEIKPEMIGHYLGEFS  
ITYKPVKHGRPGIGATHSSRFIPLK

>sp|P62851|RS25\_HUMAN 40S ribosomal protein S25 OS=Homo sapiens GN=RPS25 PE=1 SV=1

MPPKDDKKKKDAGKSAKKDKDPVNKSGGKAKKKKWSKGKVRDKLNNLVLFDKATYDKLCK

EVPNYKLITPAVVSERLKIRGSLARAALQELLSKGLIKLVSKHRAQVIYTRNTKGGDAPA  
AGEDA

>sp|P62979|RS27A\_HUMAN Ubiquitin-40S ribosomal protein S27a OS=Homo sapiens GN=RPS27A  
PE=1 SV=2

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYN  
IQKESTLHLVLRRLGGAKKRKKKSYTTPKKNKHKRKKVLAFLKYYKVDENGKISRLRRE  
CPSDECGAGVFMASHFDRHYCGKCCLTYCFNKPEDK

>sp|P42677|RS27\_HUMAN 40S ribosomal protein S27 OS=Homo sapiens GN=RPS27 PE=1 SV=3  
MPLAKDLLHPSPEEEKRKHKKRLVQSPNSYFMDVKCPGCKYKITTTFSHAQTVVLCVGC  
TVLCQPTGGKARLTEGCSFRKQK

>sp|P62753|RS6\_HUMAN 40S ribosomal protein S6 OS=Homo sapiens GN=RPS6 PE=1 SV=1  
MKLNISFPATGCQKLIQVDDERKLRTFYEKRMATEVAADALGEEWKGYYVVRISGGNDKQG  
FPMKQGVLTGHRVRLLSKGHSYRPRRTGERKRKSVRGCIVDANLSVLNLVIVKGEKD  
IPGLTDTTPRRLGPKRASIRKLFNLKEDDVRQYVVRKPLNKEGKKPRTKAPKIQRLV  
TPRVLQHKRRRIALKKQRTKKNEEAAEYAKLLAKRMKEAKEKRQEQIAKRRRLSSLRAS  
TSKSESSQK

>sp|Q9HA92|RSAD1\_HUMAN Radical S-adenosyl methionine domain-containing protein 1,  
mitochondrial OS=Homo sapiens GN=RSAD1 PE=2 SV=2

MALPGARARGWAAAAAARRRRVENAGGSPSEPAARRAALVHWPYCEKRCSYCNFNK  
YIPRLEEAAAMQKCLVTEAQTLLRLSGVQRVESVFFGGGTPSLASPTVAAVLEAVAQAA  
HLPADLEVTLEANPTSAPGSRLAEFGAAGVNRLSIGLQSLDDTELRLGRTHSACDALRT  
LAEARRLFPGRVSVLMLGLPAQVGPWLGLQELLHHCDHLSLYQLSLERGTAFAQV  
QRGALPAPDPELAEMYQRGRAVLREAGFHQYEVSNFARNGALSTHNWTYWQCGQYLVGV  
PGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPLGRLELLEVLALGL  
RTDVGITHQHWQFEPQLTLWDVFGANKEVQELLERGLQLDHRGLRCSWEGLAVLDSLL  
LTLLPQLQEAQQRTSPVPGG

>sp|Q5VWQ0|RSBN1\_HUMAN Round spermatid basic protein 1 OS=Homo sapiens GN=RSBN1 PE=1 SV=2

MFISGRRTADKWAEERLQCPAGSARAALARCADGGAVGPFKCVFVGEMAAQVGAVRVVR  
AVAAQEEPDKEGKEKPHAGVSPRGVKRQRRSSSGSQEKRGRPSQEPPLAPPHRRRRSRQ  
HPGPLPPTNAAPTVPGPVEPLLLPPPPPSLAPAGPAVAAPLPAPSTSALFTFSPLTVSA  
AGPKHKHGKHKHHHHRGPDGPSSCGTDLKHKDKQENGERTGGVPLIKAPKRETPDEN  
GKTQRADDFVLKKIKKKKKKHREDMRGRLKMYNKEVQTVCAGLTRISKEILTQGGINS  
TSGLNKESFRYLKDEQLCRLNLGMQEYRVPQGVQTPFMTHQEHSIRRNFLKTGTFKSNFI  
HEEHQSNGGALVLHAYMDELSFLSPMEMERFSEEFALTFSENEKNAAYYALAIHGA  
YLPDFLDYFAFNFPNTPVKMEILGKKDIETTTISNFHTQVNRITYCCGTYRAGPMRQISLV  
GAVDEEVGDYFPEFLDMLEESPFKMTLPWGTLSLRLQCRSQSDDGPIMWVRPGEQMIP  
TADMPKSPFKRRSMNEIKNLQYLPRTSEPREVLFEDRTRAHADHVGQGFWDQSTAAVGV  
LKAVQFGEWSDQPRITKDVICFHAEDFTDVVQRLQLDLHEPPVSQCVQWVDEAKLNQMRR  
EGIRYARIQLCDNDIYFIPRNVIHQFKTVSAVCSLAWHIRLKQYHPVVEATQNTESNSNM  
DCGLTGKRELVDSQCVRIKTESEEAETEIQLLTASSSFPPASENLQQDQKTQPIPV  
LVESRLDSDQQHNLQEHSTTSV

>sp|Q6PCB5|RSBNL\_HUMAN Round spermatid basic protein 1-like protein OS=Homo sapiens  
GN=RSBN1L PE=1 SV=2

MAEPPSPVHCVAAAAPTATVSEKEPFGKLQLSSRDPPGSLSAKKVRTEKKAPRRVNGEG

GSGGNSRQLQPPAAPSPQSYGSPASWSFAPLSAAPSPSSSRSSFSFAGTAVPSSASASL  
SQPVPRKLLVPPTLLHAQPHHLLLPAAAAASANA KSRPKEKREKERRRHGLGGAREAG  
GASREENGEVKPLPRDKIKDKIKERDKEKEREKKKKHKVMNEIKKENGEVKILLKSGKEKP  
KTNIEDLQIKKVKKKKKKKH KENEKRKRPKMYSKSIQTICSGLLTDVEDQAAKGILNDNI  
KDYVGKNLDTKNYDSKIPENSEFPFVSLKEPRVQNNLKRDLTLEFKQLIHIEHQPNGGAS  
VIHAYSNELSHLSMEMERFAEEFVGLVFSENENSAAFYVMGIVHGAATYLPDFLDYFSF  
NFPNSPVKMEILGKKDIETTTMSNFHAQVKRTYSHGTYRAGPMRQISLVGAVDEEVGDYF  
PEFLDMLEESPFLKCTLPWGTLSLKLQSRKDSDDGPI MWVRPGEQMIPVADMPKSPFKR  
KRTTNEIKNLQYLPRTSEPREFEDRTRAHADHIGQGFERQTTAAVGVLKAVHCGEWPD  
QPRITKDVICFHAEDFLEVVRMQLDLHEPPLSQCVQWVDDAKLNQLRREGIRYARIQLY  
DNDIYFIPRNVVHQFTVSAVCSLAWHIRLKLYHSEEDTSQNTATHETGTSSDSTSSVLG  
PHTDNMICAVSKASLDSVFSKDLHSHYELQQIKHEPIASVRIKEEPVNVNIPEKTTALNN  
MDGKNVKAKLDHVQFAEFKIDMSKSFENSNDLKEELCPGNLSLVDTRQHSSAHSNQDKK  
DDDILC

>sp|Q92681|RSCA1\_HUMAN Regulatory solute carrier protein family 1 member 1 OS=Homo sapiens  
GN=RSC1A1 PE=2 SV=1

MSSLPTSDGFNHPARSSGQSPDVGNPMSLARSVSASVCPKPSDSRDIEPKAVKALKASA  
EFQLNSEKKEHLSLQDLSDHASSADHPTDQSPAMPQNSSEEITVAGNLEKSAERSTQG  
LKFHLLHTRQEASLSVTSTRMHEPQMFLGEKDWHPENQNLSQVSDPQQHEEPGNEQYEVAQ  
QKASHDQEYLCNIGDLELPEERQQNQHKIVDLEATMKGNGLPQNVDPSSAKKSIPSSCS  
GCSNSETFMEIDTAQQLSVTLNSTGRQANVNKIGALDLTDNPLMEVETSKCNPSSEI  
LNDISTQDLQPPETNVEIPGTNKEYGHYSSPSLCGSCQPSVESAEESCPSITAALKELH  
ELLVSSKPASENTSEEVICQSETIAEGQTSIKDLSERWTQNEHLTQNEQCPQVSFHQAI  
SVSVETEKLGTSSDTGREAVENVNFRSLGDGLSTDKEGVPKSRESINKNRSVTVTSAKT  
SNQLHCTLGVEISPKLLAGEEDALNQTSEQTKSLSSNFILVKDLGQGIQNSVTD RPETRE  
NVCPDASRPLLEYEPPTSHPPSSPAILPPLIFPATDIDRILRAGFTLQEALGALHRVGGN  
ADLALLVLLAKNIVVPT

>sp|Q9BU20|RSG1\_HUMAN REM2- and Rab-like small GTPase 1 OS=Homo sapiens GN=RSG1 PE=1 SV=2

MARPPVPGSVVVPNWHESAEGKEYLACILRKNRRRVFGLLERPVLLPPVSIDTASYKIFV  
SGKSGVGKTALVAKLAGLEVPPVHHETTGIQTTVVFWPAKLQASSRVVMFRFEFWDCGES  
ALKKFDHMLLACMENTDAFLFLFSFTDRASFEDLPQGLARIAGEAPGVVMVIGSKFDQY  
MHTDVPERDLTAFRQAWELPLLRVKSVPGRRLADGRTL DGRAGLADVAHILNGLAEQLWH  
QDQVAAGLLPNPPESAPE

>sp|Q5TD94|RSH4A\_HUMAN Radial spoke head protein 4 homolog A OS=Homo sapiens GN=RSPH4A  
PE=1 SV=1

MEDSTSPKQEKENQEELGETRRPWEGKTAASPQYSEPESEPLEAKQGPETGRQSRSSRP  
WSPQSRAKTPLGGPAGPETSSPAPVSPREPSSSPSPLAPARQDLAAPPQSDRTTSV IPEA  
GTPYDPLEQSSDKRESTPHHTSQSEGNTFQQSQQPKPHLCGRRDVSYNNAKQKELRFDV  
FQEEDSNSDYDLQAPAGGSEVAPSMLEITI QNAKAYLLKTSSNSGFNLYDHLSNMLTKI  
LNERPENAVDIFENISQDVKMAHFSKKFDALQENENELLPTYEIAEKQKALFLQGHLEGVD  
QELEDEIAENALPNVMESAFYFEQAGVGLGTDETYRIFLALKQLTDTHPIQR CRFWGKIL  
GLEMNYIVAEVEFREGEDEEEVEEDVAEERDNGESEAHEDDEDELPKSFYKAPQAIPKE  
ESRTGANKYVYFVCNEPGRPWVKLPVIPAQIV IARKIKKFFTGRLDAP IISYPPFP GNE  
SNYLRAQIARISAGTHVSPLGFYQFGEEGEEEEEAEGGRNSFEENPDFEGIQVIDLVES

LSNWVHHVQHILSQGRCNWFNSIQKNEEEEEDEEKDDSDYIEQEVGLPLLTPISEDLE  
IQNIPPWTTRLSSNLIPQYAI AVLQSNLWPGAYAFSNGKKFENFYIGWGHKYS PDNYTPP  
VPPVYQYEYPSGPEITEMDDPSVEEEQAFRAAQEAVLLAAENEESEDEDEEDDYD

>sp|Q6T310|RSLBA\_HUMAN Ras-like protein family member 11A OS=Homo sapiens GN=RASL11A PE=2  
SV=1

MRPLMSGHFLLAIPESSSDYLLPKDIKLAVLGAGRVGKSAMIVRFLTKRFIGDYEPNT  
GKLYSRLVYVEGDQLSLQIQDTPGGVQIQDSLQVVDLSLSCVQWAEGLLVYSITDYDS  
YLSIRPLYQHIRKVHPDSKAPV IIVGNKGDLLHARQVQTQDGIQLANELGSLFLEISTSE  
NYEDVCDVFQHLCKEVS KMHGLSGERRRAS IIPRPRSPNMQDLKRRFKQALSPKVKAPSA  
LG

>sp|Q8WXG1|RSAD2\_HUMAN Radical S-adenosyl methionine domain-containing protein 2 OS=Homo  
sapiens GN=RSAD2 PE=1 SV=1

MWVLTAAAFAGKLLSVFRQPLSSLWRSVLPLFCWLRAFLLATKRKQQLVLRGPDETK  
EEEEPPPLPTTPTSVNYHFTRQCNKCGFCFHTAKTSFVLPLEEAKRGLLLLKEAGMEKI  
NFSGGEPFLQDRGEYLKGLVRFCKVELRLPSVSIVSNGSLIRERWFQNYGEYLDILAISC  
DSFDEEVNVLIGRGQGKKNHVENLQKLRRWCRDYRVAFKINSVINRFNVEEDMTEQIKAL  
NPVRWKVFQCLLIEGENCGEDALREAERFVIGDEEFERFLERHKEVSCLVPESNQMKMDS  
YLILDEYMRFLNCRKGRKDPSKSI LDVGVEEA IKFSGFDEKMFLKRGGKYIWSKADLKLD  
W

>sp|Q2MKA7|RSP01\_HUMAN R-spondin-1 OS=Homo sapiens GN=RSP01 PE=1 SV=1

MRLGLCVVALVLSWHTLTSSRGIKGRQRRISAEGSQACAKGCELCSEVNGCLKCSPKL  
FILLERNDIRQVGCLPSCPPGYFDARNPDMNKCICKIEHCEACFSHFCTKCKEGLYL  
HKGRCYPACPEGSSAANGTMECCSPAQCSEWSPWGPCSKKQQLCGFRRGSEERTRRVL  
HAPVGDHAACSDTKETRRCTVRRVPCPEGQKRRKGGQGRRENANRLARKESKEAGAGSR  
RRKGQQQQQQGTGVLTSAGPA

>sp|Q15404|RSU1\_HUMAN Ras suppressor protein 1 OS=Homo sapiens GN=RSU1 PE=1 SV=3

MSKSLKKLVEESREKNQPEVMSDRGISNMLDVNGLFTLSHITQLVLSHNKLTMVPPNIA  
ELKNLEVLNFFNNQIEELPTQISSLQKLHLNLGMNRLNLTLPRGFGLPALEVLDLTYNN  
LSENSLPGNFFYLTLRALYLSDNDFEILPPDIGKLTQLSLRDNDLISLPKEIGELT  
QLKELHIQGNRLTVLPPELGNLDLTGQKQVFKAENNPWVTPIADQFQLGVSHVFEYIRSE  
TYKLYGRHMQANPEPPKNNDKSKKISRKPLAAKNR

>sp|P82912|RT11\_HUMAN 28S ribosomal protein S11, mitochondrial OS=Homo sapiens GN=MRPS11  
PE=1 SV=2

MQAVRNAGSRFLRSWTWPQTAGR VVARTPAGTICTGARQLQDAAAKQKVEQNAAPSHTKF  
SIYPPIPGEESLRWAGKKFEEIPIAHIKASHNNTQIQVVSASNEPLAFASCGTEGFRNA  
KKGTGIAAQTAGIAAAARAKQKGV IHIRVVVKGLGPGRLSAMHGLIMGGLEVISITDNTP  
IPHNGCRPRKARKL

>sp|O60783|RT14\_HUMAN 28S ribosomal protein S14, mitochondrial OS=Homo sapiens GN=MRPS14  
PE=1 SV=1

MAAFMLGSLLRFTFKQMPSSASGQVRSHYVDWRMWRDVKRRKMAYEYADERLRINSLRKN  
TILPKILQDVADEEIAALPRDSCPVRIRNRCVMTSRPRGVKRRWRLSRIVFRHLADHGQL  
SGIQRATW

>sp|P82914|RT15\_HUMAN 28S ribosomal protein S15, mitochondrial OS=Homo sapiens GN=MRPS15  
PE=1 SV=1

MLRVAWRTLSLIRTRAVTQVLVPGLPGGSAKFPPFNQWGLQPRSLLLQAARGYVVRKPAQ  
SRLDDPPSTLLKDYQNVPGIEKVDDVVKRLLSLEMANKKEMLKIKQEQFMKKIVANPE  
DTRSLEARI IALS VKIRSYEEHLEKHKRDKAHKRYLLMSIDQRKKMLKNLRNTNYDVFEK  
ICWGLGIEYTFPPLYRRARRFVTKKALCIRVFQETQKLKKRRRALKAAAAAQKQAKRR  
NPDSPAIPAIPKTLKDSQ

>sp|Q9BQC6|RT63\_HUMAN Ribosomal protein 63, mitochondrial OS=Homo sapiens GN=MRPL57 PE=1  
SV=1

MFLTALLWRGRIPGRQWIGKRRRPRFVSLRAKQNMIRRLEIEAENHYWLSMPYMTREQER  
GHA AVRREAEFAIKAAATSKFPPHFIADQLDHLNVTKKWS

>sp|Q96C34|RUND1\_HUMAN RUN domain-containing protein 1 OS=Homo sapiens GN=RUNDC1 PE=1  
SV=3

MAVEAAAAEPVTVVAAVGPKAKDEEEEEEEPLPPCEAVRWAPVGAVAEARPGATAFLEEA  
TAE EPGAAPGSPDPSGRTLRLRAERRRLDSALLALSSHFAQVQFRLRQVVRGAPAEQQ  
RLLRELEDFAFRGCPHVLGYEGPGDPASDEGDGLPGDRPWLRGEDQSEQEKQERLETQRE  
KQKELILQLKTQLDDLET FayQEGSYDSL PQSVVLERQ RVI IDELIKKLD MNLNEDISSL  
STEELRQRVDAAVAQIVNPARVKEQLVEQLKTQIRDLEMFINFIQDEVGSPLQTGGGHCE  
CKAGGKTGNGCSRTGSSRTPPGNSKTKAEDVKKVRETGLHLMRRALAVLQIFAVSQFGCA  
TGQIPPTLWQRVQADRDISPLLRLEVSVDRVKQLALRQQPHDHVITSANLQDLSLGGKD  
ELTMAVRKELTVAVRDLLAHGLYASSPGMSLVMAPIACLPPAFSSAPEAMHPWELFVKYY  
HAKNGRAYVESPARKLSQS FALPVTGGTVVTPKQSLLTAIHMVLTEHDPFKRSADSELKA  
LVCMALNEQRLVSWVNLICKSGSLIEPHYQPWSYMAHTGFESALNLLSRLSSLKFSPLVD  
LAVRQLKNIKDAF

>sp|Q01196|RUNX1\_HUMAN Runt-related transcription factor 1 OS=Homo sapiens GN=RUNX1 PE=1  
SV=3

MRIPVDASTSRRFTPPSTALSPGKMSEALPLGAPDAGAALAGKLRS GDRSMVEVLADHPG  
ELVRTDSPNFLCSVLPTHWRCNKTLPIAFKVVALGDVPDGLVTVMAGNDENYS AELRNA  
TAAMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKITVDGPREPRRHR  
QKLDDQTKPGSLSF SERLSELEQLRRTAMRVSPHHPAPTPNPRASLNHSTAFNPQPQSQM  
QDTRQIQSPSPWSYDQSYQLGSIASPSVHPATPISPGRASGMTTSAELSSRLSTAPDL  
TAFSDPRQFPALPSISDPRMHYPGAFYTSPTPTVTSIGIGMSAMGSATRYHTYLP PPYPG  
SSQAQGGPFQASSPSYHLYYGASAGSYQFSMVGGERSPPRILPPCTNASTGSALLNP SLP  
NQSDVVEAEGSHSNSPTNMAPSARLEEAVWRPY

>sp|Q13950|RUNX2\_HUMAN Runt-related transcription factor 2 OS=Homo sapiens GN=RUNX2 PE=1  
SV=2

MASNSLFTVTPCQQNFFWDPSTSRRFSPPSSSLQPGKMSDVSPVVAQQQQQQQQQQQQQ  
QQQQQQQQQQQ EAAAAAAAAAAAAAAAAAVPRLRPPHDNRTMVEIIADHPAELVRTDSPN  
FLCSVLPSHWRCNKTLPIAFKVVALGEVPDGLVTVMAGNDENYS AELRNASAVMKNQVA  
RFNDLRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKVTVDGPREPRRHRQKLDDSKPS  
LFSDRLSDLGRIPHSMRVGVPPQNPRPSLNSAPSPFNPQGQSQITDPRQAQSSPWSYD  
QSYPSYLSQMTSPSIHSTTPLSSTRGTGLPAITDVPRRISDDDTATSDFCLWPSTLSKKS  
QAGASELGPFSDPRQFPSISSLTESRFSNPRMHYPATFTYTPPVTSGMSLGMSATTHYHT  
YLPPYPGSSQS QSGPFQTSSTPYLYYGTSSGSYQFPMVPGDRSPSRMLPPCTTTSNGS  
TLLNPNLPNQNDGVDADGSHSSSPTVLNSSGRMDES VWRPY

>sp|P62304|RUXE\_HUMAN Small nuclear ribonucleoprotein E OS=Homo sapiens GN=SNRPE PE=1 SV=1

MAYRGQGQKVQKVMVQPINLIFRYLQNRRIQVWLYEQVMRIEGCIIGFDEYMNVLDD  
AEEIHSKTKSRKQLGRIMLKGDNITLLQSVSN

>sp|Q9HBX9|RXFP1\_HUMAN Relaxin receptor 1 OS=Homo sapiens GN=RXFP1 PE=1 SV=2

MTSGSVFFYILIFGKYFSHGGGQDVKCSLGYFPCGNITKCLPQLLHCNGVDDCGNQADED  
NCGDNNGWSLQFDKYFASYKMTSQYPFEAETPECLVGSVPVQCLCQGLELDCDETNLRA  
VPSVSSNVTAMSLQWNLIRKLPPDCFKNYHDLQKLYLQNNKITSISIIYAFRGLNSLTKLY  
LSHNRITFLKPGVFEDLHRLEWLIIEDNHLSRISPPTFYGLNSLILLVLMNNVLRPLDK  
PLCQHMPRLHWLDLEGNHIIHNLRLTFISCSNLTVLVMRKNKINHLNENTFAPLQKLDEL  
DLGSNKIENLPLIFKDLKELSQLNLSYNPIQKIQANQFDYLVKLKSLSELEGIEISNIQQ  
RMFRPLMNLSHIYFKKFQYCGYAPHVRSCKPNTDGISSLENLLASIIQRVFVWVSAVTC  
FGNIFVICMRPYIRSENKLYAMSIISLCCADCLMGIYLFVIGGFDLKFGEYNKHAQLWM  
ESTHCQLVGSAILSTEVSLLLLTFLTLEKYICIVYFRCVRPGKCRITITVLILIWITGF  
IVAFIPLSNKEFFKNYYGTNGVCFPLHSEDTESIGAQIYSVAIFLGINLAAFIIIVFSYG  
SMFYSVHQSAITATEIRNQVKKEMILAKRFFFIVFTDALCWIPFVVKFLSLLQVEIPGT  
ITSWVVFILPINSALNPILYTLTRPFKEMIHRFWYNYRQRKSMDSKGQKTYAPSFIVV  
EMWPLQEMPELMKPDLTYPCEMSLISQSTRLNSYS

>sp|P28702|RXRB\_HUMAN Retinoic acid receptor RXR-beta OS=Homo sapiens GN=RXRB PE=1 SV=2

MSWAARPPFLPQRHAAGQCGPVGRKEMHCGVASRWRRRRPWLDPAAAAAA AVAGGEQQT  
PEPEPEGEAGRDGMGDSGRDSRSPDSSSNPLPQGVPPSPPGPPLPPSTAPSLGGSGAPP  
PPMPPPPPLGSPFPVSSSMGSPGLPPPAPPGFSGPVSSPQINSTVSLPGGSGPPEDVK  
PPVLGVRGLHCPPPGGPGAGKRLCAICGRSSGKHGVSCEGCKGFFKRTIRKDLTYS  
CRDNKDCTVDKRQRNRCQYCRYQKCLATGMKREAVQEERQRGKDKDGDGEGAGGAPEEMP  
VDRILEAEALAVEQKSDQGVVEGPGGTGGSGSSPNDPVTNICQAADKQLFTLVEWAKRIPHF  
SSLPLDDQVILLRAGWNELLIASFSHRSIDVRDGI LLATGLHVHRNSAHSAGVAIFDRV  
LTELVS KM RDMRMDKTELGCLRAIILFNPDAGLSNPSEVEVLREKVYASLETYCKQKYP  
EQQGRFAKLLRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHQLA

>sp|P48443|RXRG\_HUMAN Retinoic acid receptor RXR-gamma OS=Homo sapiens GN=RXRG PE=1 SV=1

MYGNYSHFMKFPAGYGGSPGHTGSTMSPSAALSTGKPMDSHPSTDTVPVSAPRTLSAVG  
TPLNALGSPYRVITSAMGPPSGALAAPPGINLVAPPSSQLNVVNSVSSSEDIKPLPLPG  
IGNMNPSTSPGSLVKHICAICGRSSGKHGVSCEGCKGFFKRTIRKDLIYTCRDNKD  
CLIDKRQRNRCQYCRYQKCLVMGMKREAVQEERQRSRERAESAEACATSGHEDMPVERIL  
EAELAVEPKTESYGDMMENSTNDPVTNICAADKQLFTLVEWAKRIPHFSDLTLEDQVI  
LLRAGWNELLIASFSHRSVSVQDGI LLATGLHVHRSSAHSAGVGSIFDRVLTELVS KM D  
MQMDKSELGCLRAIVLFNPDAGLSNPSEVETLREKVYATLEAYTKQKYPEQPGRFAKLL  
LRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLETPLQIT

>sp|Q8N488|RYBP\_HUMAN RING1 and YY1-binding protein OS=Homo sapiens GN=RYBP PE=1 SV=2

MTMGDKKSPTRPKRQAKPAADGFWDCSVCTFRNSAEAFKCSICDVRKGTSTRKPRINSQ  
LVAQQVAQQYATPPPPKKEKKEKVEKQDKEKPEKDKEISPSVTCKNTNKKTKPKSDILKD  
PPSEANSIQSANATTKTSETNHTSRPRLKNVDRSTAQQLA VTVGNVTVIIITDFKEKTRSS  
STSSSTVTSSAGSEQNQSSSGSESTDKGSSRSSTPKGDMSAVNDEF

>sp|P29377|S100G\_HUMAN Protein S100-G OS=Homo sapiens GN=S100G PE=3 SV=2

MSTKKSPEELKRIFEKYAAKEGDPDQLSKDELKLLIQAEFPSLLKGPNTLDDLQELDKN

GDGEVSFEETFQVLVKKISQ

>sp|P23297|S10A1\_HUMAN Protein S100-A1 OS=Homo sapiens GN=S100A1 PE=1 SV=2  
MGSELETAMETLINVFHAHSGKEGDKYKLSKKELKELLQTELSGFLDAQKDVAVDKVMK  
ELDENGDEVDVFQEYVVLVAALTVACNNFFWENS

>sp|P33763|S10A5\_HUMAN Protein S100-A5 OS=Homo sapiens GN=S100A5 PE=1 SV=2  
METPLEKALTMTVTTFHKYSGREGSKLTLSRKELKELIKKELCLGEMKESSIDDLMKSLD  
KNSDQEIDFKEYSVFLTMLCMAYNDFLEDNK

>sp|P05109|S10A8\_HUMAN Protein S100-A8 OS=Homo sapiens GN=S100A8 PE=1 SV=1  
MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLKLLTECPQYIRKKGADVWFKELDI  
NTDGAVNFQEFLILVIKMGVAAHKKSHEESHKE

>sp|Q99584|S10AD\_HUMAN Protein S100-A13 OS=Homo sapiens GN=S100A13 PE=1 SV=1  
MAAEPLTELEESIETVVTFTFFARQEGRKDSL SVNEFKELVTQQLPHLLKDVGSLDEKM  
KSLDVNQDSELKFNEYWRLIGELAKEIRKKKDLKIRKK

>sp|Q6NT16|S18B1\_HUMAN MFS-type transporter SLC18B1 OS=Homo sapiens GN=SLC18B1 PE=1 SV=1  
MEALGDLEGPRAPGGDDPAGSAGETPGWLSREQVFVLISAASVNLGSMCYSLGPFFPK  
EAEKKGASNTIIGMIFGCFALFELLASLVFGNYLVHIGAKFMFVAGMFVSGGVITILFGVL  
DRVPDGPVFIAMCFLVRVMDAVSFAAAMTASSSILAKAFPNNVATVLGSLETFSGLGLIL  
GPPVGGFLYQSFGYEVPIVLGCVLLMVPLNMYILPNYESDPGEHSFWKLIALPKVGLI  
AFVINSLSFCFGFLDPTLSLVLEKFNLPAGYVGLVFLGMALSYAISSPLFGLLSDKRPP  
LRKWLLVFGNLITAGCYMLLGPVPIILHIKSQLWLLVLILVVSGLSAGMSIPTFPEILSC  
AHENGFEGLSTLGLVSGLFSAMWSIGAFMGPTLGGFLYEKIGFEWAAAIQGLWALISGL  
AMGLFYLLSEYRRKRKSKSNILSTEEERTTLLPNET

>sp|P41440|S19A1\_HUMAN Folate transporter 1 OS=Homo sapiens GN=SLC19A1 PE=1 SV=3  
MVPSSPAVEKQVPVEPGDPPELRSWRHLVCYLCFYGFMAQIRPGESFITPYLLGPDKNFT  
REQVTNEITPVLSYSYLAFLVPVFLLDYLRYPVLLLQGLSFVSVWLLLLLGHSAHMQ  
LMELFYSVTMAARIAYSSYIFSLVRPARYQRVAGYSRAAVLLGVFTSSVLGQLLVTVGRV  
SFSTLNYISLAFLTFSVVLALFLKRPKRSLFFNRDDRGRCETSASELERMNP GPGKLGH  
ALRVACGDSVLARMLRELGDSLRRPQLRLWSLWWVFNSAGYYLVVYVHILWNEVDPTN  
SARVYNGAADAATLLGAITSFAAGFVKIRWARWSKLLIAGVTATQAGLVFLLAHTRHPS  
SIWLCYAAFVLFGRSYQFLVPIATFQIASSLSKELCALVFGVNTFFATIVKTIITFIVSD  
VRGLGLPVRKQFQLYSVYFLILSIIYFLGAMLDGLRHCQRGHHPRQPPAQGLRSAAEKA  
AQALSVQDKGLGGLQPAQSPPLSPEDSLGAVGPASLEQRQSDPYLAQAPAPAAEFLSPV  
TTPSPCTLCSAQASGPEAADETCPLAVHPPGVSKLGLQCLPSDGVQNVNQ

>sp|Q08357|S20A2\_HUMAN Sodium-dependent phosphate transporter 2 OS=Homo sapiens  
GN=SLC20A2 PE=1 SV=1

MAMDEYLWMVILGFIIAFILAFSVGANDVANSFGTAVGSGVVTLRQACILASIFETTGSV  
LLGAKVGETIRKGIIDVNLNETVETLMAGEVSAMVGSVWQLIASFLRLPISGTHCIVG  
STIGFSLVAIGTKGVQWMLVKIVASWFISPLLSGFMGSLFLVIRIFILKKEDPVPNGL  
RALPVFYAATIAINVFSIMYTGAPVLGLVLPMAIALISFGVALLFAFFVWLFVCPWMRR  
KITGKLQKEGALSRVSDESLSKVQEAESPVKELPGAKANDDSTIPLTGAAGETLGTSEG  
TSAGSHPRAAAYGRALSMTHGSVKSPISNGTFGFDGHRSDGHVYHTVHKDSGLYKDLLHK  
IHIDRGPEEKPAQESNYRLLRRNNSYTCYTAATCGLPVHATFRAADSSAPEDSEKLVGDT  
VSYSKKRLRYDSYSSYCNAAVAEAEIEAEEGGVEMKLASELADPDQPREDPAAEEKEEKDA  
PEVHLLFHFLQVLTACFGSFAHGGNDVSNAIGPLVALWLIYKQGGVTQEATPVWLLFYG

GVGICTGLVWWGRRVIQTMGKDLTPITPSSGFTIELASAFTVVIASNIGLPVSTTHCKVG  
SVVAVGWIRSRKAVDWRLFRNIFVAWFVTPVAGLFSAAVMALLMYGILPYV

>sp|015245|S22A1\_HUMAN Solute carrier family 22 member 1 OS=Homo sapiens GN=SLC22A1 PE=1  
SV=2

MPTVDDILEQVGESGWFKQAFLILCLLSAAFAPICVGIVFLGFTPDHHCQSPGVAELSQ  
RCGWSPAEEELNYTPGLGPAGEAFLGQCRRYEVDWNQSALSCVDPLASLATNRSHLPLGP  
CQDGWVYDTPGSSIVTEFNLCADSWKLDLFQSCLNAGFLFGSLGVGYFADRFGRKLCLL  
GTVLVNAVSGVLMAFSPNYMSMLLFRLLQGLVSKGNWMAGYTLITEFVGSGSRRTVAIMY  
QMAFTVGLVALTGLAYALPHWRWLQLAVSLPTFLFLYYWCVPESPRWLLSQKRNTAIAK  
IMDHIAQKNGKLPPADLKMLSLEEDVTEKLSPSFADLFRTPRLRKRTFILMYLWFTDSVL  
YQGLILHMGATSGNLYLDFLYSALVEIPGAFIALITIDRVGRIYPMAMSNLLAGAACLVM  
IFISPDHLHWNIIIMCVGRMGITIAIQMICLVNAELYPTFVRNLGVMVCSSLCDIGGIIT  
PFIVFRLREVWQALPLILFAVLGLLAAGVTLLL PETKGVALPETMKDAENLGRKAKPKEN  
TIYLVQTSSEPSGT

>sp|076082|S22A5\_HUMAN Solute carrier family 22 member 5 OS=Homo sapiens GN=SLC22A5 PE=1  
SV=1

MRDYDEVTAFLGEWGPFRQLIFFLLSASII PNGFTGLSSVFLIATPEHRCRVPDAANLSS  
AWRNHTVPLRLRDGREVP HSCRRYRLATIANFSALGLEPGRDVLGQLEQESCLDGWEFS  
QDVYLSTIVTEWNLVCEDDWKAPLTISLFFVGVLGSGFISGQLSDRFGRKNVLFVTMGMQ  
TGFSFLQIFSKNFEMFVFLVFLVGMGQISNYVAAFVLGTEILGKSVRIIFSTLGVCI FYA  
FGYMLPLFAYFIRDWRMLLVALTMPGVLCVALWWFIPESPRWLISQGRFEEAEVIIRKA  
AKANGIVVPSTIFDPSELQDLSSKKQQSHNILDLLRTWNIRMVTIMSIMLWMTISVG YFG  
LSLDTPNLHGDI FVNCFLSAMVEVPAYVLAWLLLQYLP RRYSMATALFLGGSVLLFMQLV  
PPDLYLATVLMVGKFGVTA AFSMVYVYTAELYPTVVRNMGVGSSTASRLGSILSPYF  
VYL GAYDRFLPYILMGS LTI LTAILTLFLPESFGTPLPDTIDQMLRVKGMKHKRTPSHTR  
MLKDQGERPTILKSTAF

>sp|Q8IVM8|S22A9\_HUMAN Solute carrier family 22 member 9 OS=Homo sapiens GN=SLC22A9 PE=1  
SV=1

MAFQDLLGHAGDLWRFQILQTVFLSIFAVATYLHFMLENFTAFIPGHRCVWHILDNDTVS  
DNDTGALSQDALLRISIPLDSNM RPEKRRFVHPQWQLHLNGTFPNTSDADMEPCVDGW  
VYDRISFSSTIVTEWDLVCDSQSLTSVAKFVFMAGMMVGILGGHLSDRFGRRFVLRWCY  
LQVAIVGTCAALAPTFLIYCSRLFLSGIAAMSLITNTIMLIAEWATHRFQAMGITLGMCP  
SGIAFMTLAGLAFARDWHILQLVVSVPYFVIFLTSSWLLESARWLI INNKPEEGLKELR  
KAAHRSGMKNARDTLTLEILKSTMKKELEAAQKKKPSLCEMLHMPNICKRISLLSFTRFA  
NFMAYFGLNLHVQHLGNNVFLQLTLFGAVILLANCVAPWALKYMNRRASQMLLMFLLAIC  
LLAII FVPQEMQTLREVLATLGLGASALANTLAFAHGNEVIPTIIRARAMGINATFANIA  
GALAPLMMILSVSPPLPWIIYGVPFISGFAFLLLPETRNKPLFDTIQDEKNERKDPRE  
PKQEDPRVEVTQF

>sp|Q9NSA0|S22AB\_HUMAN Solute carrier family 22 member 11 OS=Homo sapiens GN=SLC22A11  
PE=1 SV=1

MAFSKLLAQAGGVGLFQTLQVLT FILPCLMIPSQMLLENFSAAIPGHRCWTHMLDNGSAV  
STNMTPKALLTISIPPGPNQGHQCRRFRQPQWQLLDPNATATSWSEADTEPCVDGWVYD  
RSVFTSTIVAKWDLVCSSQGLKPLSQSIFMSGILVGSFIWGLLSYRFGRKPMLSWCCLQL  
AVAGTSTIFAPTFVIYCGLRFVAAF GMAGIFLSSLTLMVEWTTTSRRAVTMTTVGCAFSA



GQAALGGLAFALRDWRTLQLAASVPFFAISLISWWLPESARWLI IKGKPDQALQELRKVA  
RINGHKEAKNLTIEVLMSSVKEEVASAKEPRSVLDLFCVPVLRWRSCAMLVVNFSLLISY  
YGLVFDLQSLGRDIFLLQALFGAVDFLGRATTALLSFLGRRTIQAGSQAMAGLAILANM  
LVPQDLQTLRVVFAVLGKGCFGISLTCLTIYKAELFPTPVRMTADGILHTVGRLGAMMGP  
LILMSRQALPLLPLYGVVISIASSLVVLFPLPETQGLPLPDTIQDLESQKSTAAQGNRQ  
EAVTVESTSL

>sp|Q86VW1|S22AG\_HUMAN Solute carrier family 22 member 16 OS=Homo sapiens GN=SLC22A16  
PE=1 SV=1

MGRSHFEGIYDHVGHFGRFQRVLYFICAFQNISCGIHYLASVFMGVTPHHVCRPPGNVSQ  
VVFHNHSNWSLEDTGALLSSGQKDYVTVQLQNGEIWELSRCSRKNKRENTSSLGYEYTGSK  
KEFPCVDGYIYDQNTWKSTAVTQWNLVCDRWLAML IQPLFMFGVLLGSVTFGYFSDRLG  
RRVVLWATSSSMFLFGIAAAFAVDYYTFMAARFFLAMVASGYLVGVFVYVMEFIGMKSRT  
WASVHLHSFFAVGTLLVALTGylVrTWLYQMILSTVTVPFILCCWVLPETPFWLLSEGR  
YEEAQKIVDIMAKWNRASSCKLSELLSLDLQGPVSNSPTEVQKHNSYLFYNWSITKRTL  
TVWL I WFTGSLGFYSFSLNSVNLGGNEYNLFLLGVEIPAYTFVCIAMDKVGRRTVLAY  
SLFCSALACGVVMVIPQKHYILGVVTAMVGKFAIGAAGFLIYLYTAELYPTIVRSLAVGS  
GSMVCRASILAPFSVDLSSIWIFIPQLFVGTMLLSGVLTLKLPETLGKRLATTWEEAA  
KLESENESSKSKLLLTNNSGLEKTEAITPRDSGLGE

>sp|A6NK97|S22AK\_HUMAN Solute carrier family 22 member 20 OS=Homo sapiens GN=SLC22A20  
PE=2 SV=1

MAFTDLLDALGSMGRFQLNHTALLLLPCGLLACHNFLQNFTAAPPHHCRGPANHTEAST  
NDSGAWLRATIPLDQLGAPEPCRRFTKPQWALLSPNSSIPGAATEGCKDGWVYNRSVFPS  
TIVMEWDLVCEARTLRDLAQSVYMAGVLVGAAVFGSLADRLGCKGPLVWSYLQLAASGAA  
TAYFSSFSAYCVFRFLMGMTFSGIILNSVSLVVEWMPTRGRTVAGILLGYSFTLGQLILA  
GVAYLIRPWRLQFAISAPFLIFFLYSWWLPESRWLLHKGSKLAVQNLQKVAAMNGRK  
EEGERLTKEVMSSYIQSEFASVCTSNSILDLFRTPAIRKVTCCLMVIWFSNSVAYYGLAM  
DLQKFGLSLYLVQALFGIINTPAMLVATATMIYVGRRATVASFLILAGLMVIANMFVPEG  
TQILCTAQAALGKGLASSFICVYFTGELYPTAIRQMGMGFASVHARLGGLTAPLVTTL  
GEYSTILPPVSFGATAILAGLAVCVLTETRNMPLVETIAAMERRVKEGSSKKHVEEKSEE  
ISLQQLRASPLKETI

>sp|Q96CQ1|S2536\_HUMAN Solute carrier family 25 member 36 OS=Homo sapiens GN=SLC25A36  
PE=1 SV=1

MSQRDTLVHLFAGGCGGTGAILTCPLEVVKTRLQSSSVTLYISEVQLNTMAGASVNRVV  
SPGPLHCLKVILEKEGPRSLFRGLGPNLVGVAPSRAIYFAAYSNCKEKLNDFDPDSTQV  
HMISAAMAGFTAITATNPIWL IKTRLQLDARNRGERRMGAFECVRKVYQTDGLKGFYRGM  
SASYAGISETVIHFVIYESIKQKLLEYKTASTMENDEESVKEASDFVGMMLAAATSKTCA  
TTIAYPHEVVRTRLREEGTKYRSFFQTL SLLVQEEGYGSLYRGLTTHLV RQIPNTAIMMA  
TYELVVYLLNG

>sp|Q8N5S1|S2541\_HUMAN Solute carrier family 25 member 41 OS=Homo sapiens GN=SLC25A41  
PE=2 SV=2

MGAQPGEQNTCSRIQTLFRRVKTLLIKAPPPPPPPPPPSWNP GCTHVYGYAFGHMHDN  
NLEHLP SQVLD TGEQLMPVEVLEVDNKEALWKFLLSGAMAGAVSRTGTAPLDRAKVYM  
QVYSSKTNFTNLLGGLQSMVQEGGFRSLWRGNGINVLKIAPEYAIKFSVFEQCKNYFCGI  
QGSPPFQERLLAGSLAVAI SQT LINPMEVLKTRLTLRRTGQYKGLLDCARQILQREGTRA

LYRGYLPNMLGIIPYACTDLAVYEMLQCFWVKSGRDMGDPGLVSLSSVTLSTTCGQMAS  
YPLTLVRTRMQAQDTVEGSNPTMRGVLQRILAAQGWGLYRGMTPTLLKVLPAAGGISYVV  
YEAMKKTGLI

>sp|Q86VD7|S2542\_HUMAN Mitochondrial coenzyme A transporter SLC25A42 OS=Homo sapiens  
GN=SLC25A42 PE=2 SV=2

MGNVKEGPPVRLHEDAEAVLSSSVSSKRDHRQVLSLLSGALAGALAKTAVAPLDRTKII  
FQVSSKRFSAKEAFRVLYTYTLNEGFLSLWRGNSATMVRVVPYAAIQFSAHEEYKRILGS  
YYGFRGEALPPWPRLFAGALAGTTAASLTYPDLVRARMAVTPKEMYSNIFHVFIIRISRE  
EGLKTLYHGFMPITLVGIPYAGLSFFTYETLKS LHREYSGRRQYPFERMIFGACAGLIG  
QSASYPLDVVRRRMQTAGVTGYPRASIARTLRTIVREEGAVRGLYKGLSMNVWKGPIAVG  
ISFTTFDLMQILLRHLQS

>sp|Q969S0|S35B4\_HUMAN UDP-xylose and UDP-N-acetylglucosamine transporter OS=Homo sapiens  
GN=SLC35B4 PE=1 SV=1

MRPALAVGLVFAGCCSNVIFLELLARKHPGCGNIVTFAQFLFIAVEGFLFEADLGRKPPA  
IPIRYAIVMTMFFTVSVVNNYALNLIAMPLHMFIRSGSLIANMILGIIILKKRYSIFK  
YTSIALVSVGIFICTFMSAKQVTSQSSLENDGFQAFVWLLGIGALTFALLMSARMGIF  
QETLYKRFGKHSKEALFYNNHALPLPGFVFLASDIYDHAVLFNKSELYEIPVIGVTLPIMW  
FYLLMNIITQYVCIRGVFILTTECASLTVTLVVTLRKFSILFSILYFQNPFTLWHWLGT  
LFVFIGTLMYTEVWNNLGTTKSEPQKDSKKN

>sp|Q7Z769|S35E3\_HUMAN Solute carrier family 35 member E3 OS=Homo sapiens GN=SLC35E3 PE=2  
SV=1

MALLVDRVRGHWRIAAGLLFNLLVSICIVFLNKWIYVYHGFPNMSLTLVHFVVTWLGLYI  
CQKLDIFAPKSLPPSRLLLLALSFCGFVFTNLSLQNTIGTYQLAKAMTTPVIIAIQTF  
CYQKTFSTRIQLTLIPITLGVILNSYYDVKNFLGMVFAALGVLVTSLYQVWVGAKQHEL  
QVNSMQLLYYQAPMSSAMLLVAVPFFEPVFGEGGIFGPWSVSALLMVLLSGVIAFMVNLS  
IYWIIGNTSPVTYNMFGHKFCITLFGGYVLFKDPLSINQALGILCTLFGILAYTHFKLS  
EQEGSRSKLAQRP

>sp|Q8TBE7|S35G2\_HUMAN Solute carrier family 35 member G2 OS=Homo sapiens GN=SLC35G2 PE=1  
SV=3

MDTSPSRKYPVKKRVKIHPNTVMVKYTSHPYQPGDDGYEEINEGYGNFMEENPKKGLLSE  
MKKKGRAFFGTMDTLPPPTEDPMINEIGQFQSFAEKNIFQSRKMWIVLFGSALAHGCVL  
ITRLVSDRSKVPSELEIFIRSVFQVLSVLVCYYQEAPFGPSGYRLRLFFYGVCNVISIT  
CAYTSFSIVPPSNGTTMWRATTTFSAILAFLLVDEKMAYVDMATVVCISILGVCLVMIPN  
IVDEDNSLLNAWKEAFGYTMTVMAGLTTALSMIVYRSIKEKISMWTALFTFGWTGTIWGI  
STMFILQEPIIPLDGETWSYLIAICVCSTAAFLGVYYALDKFHPALVSTVQHLEIVVAMV  
LQLLVLHIFPSIYDVFGGVIIMISVFLAGYKLYWRNLRKQDYQEILDSPK

>sp|POC7Q5|S35G4\_HUMAN Putative solute carrier family 35 member G4 OS=Homo sapiens  
GN=SLC35G4 PE=5 SV=1

MAGSHPYFNLDPDSTHPSPPSTPPSLHWHQRCQPSDATNGLLVALLGGGLPAGFVGPLSRM  
AYQASNLSLELVICRCLFHLPIALLLKLGRDPLLGPDIRGRTCFALLNVLNIGCAYS  
AVQVVPTGNAATVRKHSSTVCSAILTLCLESQVLSGYDWCGLLSILGLIIIVGPGLWTL  
QEGTTGVYTGLGYVQAFGLGALLSLGLLVYRSLHFPSCLPVAFSLGLVGLLGSVPGLFV  
LQSPVLPSDLLSWSCVGAVGILTLVSFTCVGYAVTKAHPALVCAVLHSEVVMALILQYFM  
LHETVAPSDIMGAGVVLGSIAIITARNLICERTGKVEE

>sp|Q8IZP2|ST134\_HUMAN Putative protein FAM10A4 OS=Homo sapiens GN=ST13P4 PE=5 SV=1

MDPRKVNELRAFVKMCKKDPSILHTQEMRFLREWVESMGGTATQKAKSEENTKEEKPSK  
VEEDLKADEPSSEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEVMQANDKKVAAIEA  
LNDGELQKAIDLFTDAIKLNPRILAILYAKRASVFVKLQKPNAAIRDCDRAIEINPDSAQP  
YKRRGKAHRLLGHWEEAAHDLALACKFDYDEDASAMLKEVQPRQAIEHQKRYERKREE

>sp|Q9UEE5|ST17A\_HUMAN Serine/threonine-protein kinase 17A OS=Homo sapiens GN=STK17A PE=1 SV=2

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPQARGLLTEIRAVVRTEPFQDGYS  
LCPGRELGRGKFAVVRKCIKKDSGKEFAAKFMRKRRKGQDCRMEI IHEI AVL ELAQDNPW  
VINLHEVYETASEMILVLEYAAGGEIFDQCVADREEAFKEKDVQRLMRQILEGVHFLHTR  
DVVHLDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMGTPEYVAPEILSYDPI  
SMATDMWSIGVLTYVMLTGISPFLGNDKQETFLNISQMNL SYSEEEFDVLS ESAVD FIRT  
LLVKKPEDRATAEECLKHPWLTQSSIQEPSFRMEKALEEANALQEGHSVPEINSDTDKSE  
TKESIVTEELIVTSYTLGQCRQSEKEKMEQKAISKRFKFEELLQEIPGEFIY

>sp|O43704|ST1B1\_HUMAN Sulfotransferase family cytosolic 1B member 1 OS=Homo sapiens GN=SULT1B1 PE=1 SV=2

MLSPKDILRKDLKL VHGYPMTCAFASNWEKIEQFHSRPDDIV IATYPKSGTTWVSEIIDM  
ILNDGDIECKRGFITEKVPMLEMTLPGLRTSGIEQLEKNPSPRIVKTHLPTDLLPKSFW  
ENNCKMIYLARNAKDVSVSYYHFDLMNNLQPFPGTWEEYLEKFLTGVAYGSWFTHVKNW  
WKKKEEHPILFLYEDMKENPKKEIKKIIRFLEKNLNDEILDRIIHHTSF EVMKDNPLVN  
YTHLPTTVMDSKSPFMRKGTAGDWKNYFTVAQNEKFD AIYETEMSKTALQFRTEI

>sp|O00338|ST1C2\_HUMAN Sulfotransferase 1C2 OS=Homo sapiens GN=SULT1C2 PE=1 SV=1

MALTSDLGKQIKLKEVEGTLLQPATVDNWSQIQSFEAKPDDLLICTYPKAGTTW IQEIVD  
MIEQNGDVEKQRAIIQHRHPFIEWARPPQPSGVEKAKAMPSPRILKTHLSTQLLPPSFW  
ENNCKFLYVARNAKDCMVSYHFRMNHMLPDPGTWEEYFETFINGKVWGSWFDHVKGW  
WEMKDRHQILFLFYEDIKRDPKHEIRKVMQFMGKKVDETVLDKIVQETSFEKMKENPMTN  
RSTVSKSILDQSIS SFMRKGTVDWKNHFTVAQNERFDEIYRRKMEGTSINFCMEL

>sp|O75897|ST1C4\_HUMAN Sulfotransferase 1C4 OS=Homo sapiens GN=SULT1C4 PE=1 SV=2

MALHDMEDFTFDGTKRLSVNYVKGILQPTDTCDIWDKIWNFQAKPDDLLISTYPKAGTTW  
TQEIVELIQNEGDVEKSKRAPHQRFPFLEMKIPSLGSGLEQAHAMPSPRILKTHLPFHL  
LPPSLLEKNCKIIYVARNPKNMVSYYHFRMNKALPAPGTWEEYFETFLAGKVCWGSWH  
EHVKGWWEAKDKHRIILFYEDMKKNPKHEIQKLAFIGKKLDDKVLDKIVHYTSFDVMK  
QNP MANYSSIPAEIMDHSISPFRKGAVGDWKKHFTVAQNERFDEDYKKKMTDTRLTFHF  
QF

>sp|P49888|ST1E1\_HUMAN Estrogen sulfotransferase OS=Homo sapiens GN=SULT1E1 PE=1 SV=1

MNSELDYYEKFEEVHGILMYKDFVKYWDNVEAFQARPDDLVIATYPKSGTTWVSEIVYMI  
YKEGDVEKCKEDVIFNRIPFLECRKENLMNGVKQLDEMNSPRIVKTHLPPELLPASFEK  
DCKIIYLCRNAKDVAVSFYFFLMVAGHPNPGSFPEFVEKFMGGQVPYGSWYKHVKSWE  
KGKSPRVLFLFYEDLKEDIRKEVIKLIHFLERKPSEELVDRIIHHTSFQEMKNNPSTNYT  
TLPDEIMNQKLSPFMRKGITGDWKNHFTVALNEKFDKHYEQMKESTLKFRTETI

>sp|Q9HBF5|ST20\_HUMAN Suppressor of tumorigenicity 20 protein OS=Homo sapiens GN=ST20 PE=2 SV=2

MARSRLTATSVSQVQENG FVKLEPKSGWMTFLEVTGKICEMLFCPEA ILLTRK DTPYCE  
TGLIFLTLTKTIANTYFYF

>sp|000204|ST2B1\_HUMAN Sulfotransferase family cytosolic 2B member 1 OS=Homo sapiens  
GN=SULT2B1 PE=1 SV=2

MDGPAEPQIPGLWDITYEDDISEISQKLPGEYFRYKGVPPFVGLYSLESLAENTQDVRD  
DDIFIITYPKSGTTWMIETICLILKEGDPSWIRSVPIWERAPWCETIVGAFSLPDQYSPR  
LMSSHLPIQIFTKAFFSSKAKVIYMGGRNPRDVVSLYHYSKIAGQLKDPGTPDQFLRDFL  
KGEVQFGSWFDHIKGLRMKGKDNFLFITYEELQQDLQGSVERICGFLGRPLGKEALGSV  
VAHSTFSAMKANTMSNYTLLPPSLLDHRRGAFLRKGVCGDWNHFTVAQSEAFDRAYRKQ  
MRGMPTFPWDEDPEEDGSPDPEPSPEPEPKPSLEPNTSLEREPRPNSSPSPSPGQASETP  
HPRPS

>sp|POCL85|ST3L3\_HUMAN STAG3-like protein 3 OS=Homo sapiens GN=STAG3L3 PE=2 SV=1

MIFSMRLKLPKVTCDVLPEIRAICIEEIGCWMQSYSTSFLTDSYLKYIGWTLHDKHREV  
RVKCVKALKGLYGNRDLTARLELFTGCFKDWVMVMIMDREYSVAVEAVRLLILILKNMEG  
VLMDVDCESVYPIV

>sp|094864|ST65G\_HUMAN STAGA complex 65 subunit gamma OS=Homo sapiens GN=SUP7L PE=1 SV=1

MNLQRYWGEIPISSQTNRSSFDLLPREFRLVEVHDPPLHQPSANKPKPPTMLDIPSEPC  
SLTIHTIQLIQHNRRRLNLIATAQAQNNQQTEGVKTEESEPLPSCPGSPPLPDDLPLDC  
KNPNAPFQIRHSDPESDFYRGKGEPVTELSWHSCRQLLYQAVATILAHAGFDCANESVLE  
TLTDVAHEYCLKFTKLLRFVDRARLGQTPFPDVMEQVFHEVGIGSVLSLQKFWQHRIK  
DYHSYMLQISKQLSEYERIVNPEKATEDAKPVKIKEEPVSDITFPVSEELADLASGDQ  
SLPMGVLGAQSERFPSNLEVEASPQASSAEVNASPLWNLAHVKMEPQESEEGNVSGHGVL  
GSDVFEPMGSMSEAGIPQSPDDSDSSYGSHSTDLSMGSSPVFNQRCKKRMKI

>sp|Q99469|STAC\_HUMAN SH3 and cysteine-rich domain-containing protein OS=Homo sapiens  
GN=STAC PE=1 SV=1

MIPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNF  
FQRTNSEDMLQAHMVAEISPPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTF  
CDVCNHMIVGTNAHGLRCKACKMSIHHKCTDGLAPQRCMGKLPKGFRYYSSPLLIEHQ  
FGCIKEVMPIACGNKVDPVYETLRFGTSLAQRKKGSSGSGSDSPHRTSTSDLVEVPEEA  
NGPGGGYDLRKRSNSVFTYPENGTDGFRDPAKNINHQSLSKDPLQMNTYVALYKFPVQE  
NEDLEMRPGDIITLLEDSNEDWWKGKIQRIGFFPANFVQRLQQNEKIFRCVRTFIGCKE  
QQQITLKENQICVSSEEEQDGFIRVLSGKKKGLIPLDVLENI

>sp|Q96FJ0|STALP\_HUMAN AMSH-like protease OS=Homo sapiens GN=STAMBPL1 PE=1 SV=2

MDQPFTVNSLKKLAAMPDHTDVSLSPEERVRLSKLGCNITISEDITPRRYFRSGVEMER  
MASVYLEEGNLENAFVLYNKFITLFEKLPNHRDYQQCAVPEKQDIMKKLKEIAFPRTDE  
LKNDDLKKYNVEYQEYLQSKNKYKAEILKLEHQRLEAERKRIAQMRQQQLESEQFLFF  
EDQLKKQELARGQMRSQQTSGLSEQIDGSALSCFSTHQNNSSLNVFADQPNKSDATNYAS  
HSPPVNRALTPAATLSAVQNLVVEGLRCVLPEDLCHKFLQLAESNTVRGIETCGILCGK  
LTHNEFTITHVIVPKQSAGPDYCDMENVEELFNVQDQHDLLTLGWIHHTPTQTAFLLSSVD  
LHTHCYQLMLPEAIAIVCSPKHKDTGIFRLTNAGMLEVSACKKKGFHPHTKEPRLFSIC  
KHVLVKDIKIIIVDLR

>sp|Q9UGK3|STAP2\_HUMAN Signal-transducing adaptor protein 2 OS=Homo sapiens GN=STAP2 PE=1  
SV=2

MASALRPPRPVKPKGVLP SHYYESFLEKKGPCDRDYKKFWAGLQGLTIYFYNSNRDFQHV  
EKLNLGAFELTDEIPWGSSRDPGTHFSLILRDQEIKFKVETLECREMWKGFILTVVELR  
VPTDLTLLPGHYMMSEVLAKEEARRALETSCFLKVSRLAQQLLLERYPECGNLLLRPS

GDGADGVSVTTRQMHNGTHVVRHYKVKREGPKYVIDVEQPFSCSTSLDAVVNYFVSHTKKA  
LVPFLDDEYKVLGYVEADKENGENVWVAPSAPGPGPAPCTGGPKPLSPASSQDKLPPL  
PPLPNQEENYVTPIGDGPVDYENQDVASSSWPVILKPKKLPKPPAKLPKPPVGPKEPK  
VFNGGLGRKLPVSSAQPLFPTAGLADMTAELQKKLEKRRALEH

>sp|Q96DR4|STAR4\_HUMAN StAR-related lipid transfer protein 4 OS=Homo sapiens GN=STARD4  
PE=2 SV=1

MEGLSDVASFATKLKNTLIQYHSIEEDKWRVAKKTKDVTVWRKPSEEFNGYLYKAQGVID  
DLVYSIIDHIRPGPCRLDWDLSMTSLDILENFEENCCVMRYTTAGQLWNIISPREFVDFS  
YTVGYKEGLLSCGISLDWDEKRPEFVRGYNHPCGWFCVPLKDNPNQSLLTGYIQTDLRGM  
IPQSAVDTAMASTLTNFYGDRLKAL

>sp|Q9P2P6|STAR9\_HUMAN StAR-related lipid transfer protein 9 OS=Homo sapiens GN=STARD9  
PE=1 SV=3

MANVQVAVRVRPLSKRETKEGGRIIVEVDGKVAKIRNLKVDNRPDGFGDSREKVMAGFD  
YCYWSVPEDPQYASQDVVFQDLGMEVLSGVAKGYNICLFAYGQTGSGKTYTMLGTPASV  
GLTPRICEGLFVREKDCASLPSSCRIKVSFLEIYNERVRDLLKQSGQKSYTLRVREHPE  
MGPIVQGLSQHVVTNYKQVIQLLEEGIANRITAATHVHEASSRSHAFITHTQAILENN  
LPSEMASKINLVDLAGSERADPSYCKDRIAEGANINKSLVTLGIVISTLAQNSQVFSSCQ  
SLNSSVSNGGDSGILSSPGTSSGGAPSRRQSYIPYRDSVLTWLLKDSLGGNSKTIMVAT  
VSPAHTSYSETMSTLRYASSAKNIINKPRVNEDANLKLIRELREEIERLKALLSFELRN  
FSSLSDENLKEVLQNELKIDQLTKDWTQKWNWQALMEHYSVDINRRRAGVVIDSSLPH  
LMALEDDVLSTGVVLYHLKEGTTKIGRIDSDQEQDIVLQGQWIERDHCTITSACGVVLR  
PARGARCTVNGREVTASCRLTQGAVITLGKAQKFRFNHPAEAAVLRQRRQVGEAAAGRGS  
LEWLDLDGDLAASRLGLSPLLWKERRALEEQCDEDHQTPRDGETSHRAQIQQQQSYVEDL  
RHQILAEIEIRAAKELEFDQAWISQKIKENQQCLLREETWLASLQQQQQEDQVAEKELEAS  
VALDAWLQTDPEIQSPFVQSQRVVHLQLLRRHTLRAAERNVRRKKVSFQLERI IKKQR  
LLEAQKRLEKLTTLCLWLDQDSTQEPPYQVLSPDATVPRPPCRSKLTSCSSLSQRLCSKH  
MPQLHSIFLSWDPSTTLPPRPDPHTQSEKTSSEEHLPPQAASYPARTGCLRKNGLHSSGH  
GQPCTARAALARKGASAPDACLTMSPNVGIQEMEMGVKQPHQMVSQLASLRKSANKLK  
PRHEPKIFTSTTQTRGAKGLADPSHTQAGWRKEGNLGTAKKAGASCNSLYPHGPRQTAG  
HGKAVKTFWTEYKPPSPSRASKRHQRVLATRVRNITKKSSHLPLGSPLKRQQNTRDPDTM  
VPLTDFSPVMDHSREKDNLDSDTSDSNYSLSLSCVYAKALIEPLKPEERKWFPEPENSE  
SDDSQLSEDSLAEKRYQSPKNRLGGRPTNNRGQPRTRTRASVRGFTAASDSDLLAQTHR  
SFSLSLSLIDAEELGEDQKEEPFPGSADEIPTETFWHLEDSSLPVMDQEAICRLGPINR  
TAARLDAVLPMSSEFYLDPPQFQPHCELQPHCELQPHCELQPHCEQAESQVEPSYSEQADS  
LQGMQLSRESPLMSDWFSCDSKINPSSPPGIVGSLCPSPDMQEFHSCKGERPGYWPNT  
EELKPSDAETVLPYSSKLHQGSTELLCSARDEHTASAADTSRLSLWGIQRLIQPGADGTF  
QGRCIPDMTQQGSSEASHNSSVSNVLAASATTLTHVGSTHERDWSALQQKYLLELSCPVL  
EAIGAPKPAYPYLEEDSGSLAQASSKGGDTLLPVGPRVSSNLNLPVHLSRIRRLRAE  
KEQDSLNAKLEGVSDFSTSEKEASYDEYTSADLESLSASRSTNAQVFATENAIPDSMTE  
ACEVKQNNLEELQSCRKPLMTSSDEDFQKNACHSNVTATKADHWSQGWAPLRKNSA  
VQPGQLSPDSHYPLEEEKTDCQESSKEAVRRHINVSFALPSGPELYLHSAPWNPLSSSLQ  
PPLLETIFYVTKSRDALTETALEIPACREVRVPSPPPREAWGFGHNHQAQGGAYLKNNLPV  
LLQNQNSKIASSQQVTAIIPVDLNTREVIRESGKCPGNITEESHDSVYSSVTQNRHFLPS  
TSTKVCEFENQVIVILNKKHSFPALEGGEVTAQSCCGASSDSTESGKSLLFRESEAREEEEE

LDQNTVLRQ TINVSLEKMPGESAVSLKSRVDRRVSSPVMVAQGGGPTPKWEGKNETGL  
LEKGLRPKDSSEEFKLPGTKPAYERFQLVACPQERNPSECKSQEMLNPNREPSGKKQNK  
VNNTDEMARLIRSVMLENGILEIESKQNKQVHASHTPGTDKELVFQDQKEQEKTDHAFR  
PDSSGNPLPSKDQSSPRQTDDTVFRDSEAGAMEVNSIGNHPQVQKITPNPFRSREGVRE  
SEPVREHHPAGSDRPARDICDSLGHHTTCREFTNTSLHPQRMKALARALPLQPRLE  
SSKNNQGFVKASASLKGQPWGLGSLEELETVKGFQESQVAEHVSSSNQEEPKAQKVEEMPM  
QRGGSLQEENKVTQKFPSSLSQLCRDTFFRQETVSPLLSRTEFCTAPLHQDLSNTLPLNSP  
RWPRRCLHVPVALGISSLDCLDLTMLKIHNSPLVTGVEHQDQSTETRSHSPEGNVRGRS  
SEAHTAWCGSVRSMAMGSHSQSGVPESIPLGTEDRISASTSPQDHGKDLRITLLGFSTSE  
DFASEAEVAVQKEIRVSSLNKVSSQPEKRVFSLEEDSDQASKPRQKA EKETEDVGLTSG  
VSLAPVSLPRVPSPEPRLLEPSDHASMC LAILEEIRQAKAQRKQLHDFVARGTVLSYCET  
LLEPECSSRVAGRPQCKQIDQSSSDQTRNEGEAPGFHVASLSAEAGQIDLLPDERKVQAT  
SLSADSFESLPNTETDREPWDPVQAFSHAAPQDRKRRTGELRQFAGASEPFI CHSSSSE  
IIEKKKDATRTPSSADPLADSPRSSAPVEEVRRVVS KKVVAALPSQAPYDDPRVTLHEL  
SQSVPQETAEGIPPGSQDSSPEHQEPRTLDTTYGEVSDNLLVTAQGEKTAHFESQSVTCD  
VQNSTSASGPKQDHVQCPEASTGFEEGRASPKQDTILPGALTRVALEAPTQQCVQCKESV  
GSGLTEVCRA GSKHSRPIPLPDQRPSANPGGIGEEAPCRHPREALDGPVFSRNPEGSRTL  
SPSRGESRTLPCRQPCSSQP VATHAYSSHSSTLLCFRDGDLGKEPFKAAPHTIHPPCVV  
PSRAYEMDETGEISRGPDVHLTHGLEPKDVNREFRLTESSTCEPSTVAAVLSRAQGCRSP  
SAPDVRTGSFSHSATDGSVGLIGVPEKKVAEKQASTELEAASFPAGMYSEPLRQFRDSSV  
GDQNAQVCQTNPPEPATTQGPHTLDLSEGS AESKL VVEPQHECLENTTRCFLEKPPQFSTE  
LRDHNRLDSQAKFVARLKHTCSPQEDSPWQEEEQHRDQASGGEGFAQGVNPLPDEDGLD  
GCQILDAGREEVAVAKPPVSKILSQGFKDPATVSLRQNETQPAAQRS GHLYTGREQPAP  
NHRGSLPVTTIFSGPKHSRSSPTPQFSVVGSSRSLQELNLSVEPPSPTDEDTQGPNRLWN  
PHLRGYSSGKSVARTSLQAEDSNQKASSRLDDGTTDHRHLKPATPPYPMPSTLSHMPTPD  
FTTSWMSGTLEQAQQKREKLGVQVRPENWCSQMDKGMLHFGSSDISPYALPWRPEEPAR  
ISWKQYMSGSAVDVSCSQKPQGLTLSNVARCSSMDNGLEDQNSPFHSHLSTYANICDLST  
THSSTENAQGSNEAEVFRGSSSIALGDPHIPTSPEGVAPTS GHDRRPQFRGPSGEADCL  
RSKPPLAKGSAAGPVDEIMLLYPSEAGCPVGQTRTNTFEQGTQTLGSRRHWSSTDISFAQ  
PEASAVSAFDLASWTSMHNLSLHLSQLLHSTSELLGSLSPDVARREQNTKRDIPDKAPQ  
ALMMDGSTQTTVDEGSQTDLTPLTCLQTSEAEPPQGANVILEGLSDTSTVSQEEGDVPG  
VPQKREAEETAQMAQLLYLQEESTPYKPPSPSIPSSHLRFQKAPVGQHLPSVSPSVSDA  
FLPPSSQPEESYCLVSSPSPSSPHSPGLFPSTSEYPGDSRVQKKLGPTSALFVDRASSP  
ILTLASTQEPGLSPGSLTSLAPSTHPVEGHQKLDSSPDVPDAPRTPMDNYSQTTDELGG  
SQRGRSSLQRSNGRSFLELHSPHSPQQSPKLQFSFLGQHPQQLQPRTTIGVQSRLPPPL  
RHRSQRLGNSFVPEKVASPEHCPLSGREPSQWQSRTE NGGESSASPGEPQRTLDRPSSWG  
GLQHLSPCPVSELTDTAGLRGSALGLPQACQPEELLCFSCQMCAPEHQHSLRDLPVHN  
KFSNWC VQKGPSGLDMTEEELGASGDLSSSEKQEQSPPQPPNDHSQDSEWSKREQIPLQ  
VGAQNLSLSVELTEAKLHHGFGEADALLQVLQSGTGEALAADEPVTSTWKELYARQKKA I  
ETLRRERAERLGNFCRTRSLSPQKQLSLLPNKDLFIWDLDLPSRRREYLQQLRKDVVETT  
RSPESVSRSAHTPSDIELMLQDYQQAHEEAKVEIARARDQLRERTEQEKLRIHQKIISQL  
LKEEDKLHTLANSSSLCTSSNGSLSSGMTSGYNSSPALSGQLQFPENMGHTNLPDSRDVW  
IGDERGGHSAVRKNSAYS HRASLGSCCSPSSLSLGTCTFSSSYQDLAKHVVDTSMA DVM  
AACSDNLHNL FSCQATAGWNYQGEEQAVQLYKVFSPTRHGFLGAGVVSQPLSRVWAAVS

DPTVWPLYYPKIQTARLHQVRTNSISLVYLCNTTLCALKQPRDFCCVCVEAKEGHL SVM  
AAQSVYDTSMRPSRKMVRGEILPSAWILQPITVEGKEVTRVIYLAQVELGAPGFPPQLL  
SSFIKRQLVIARLASFLGR

>sp|Q8NFT2|STEAP2\_HUMAN Metalloreductase STEAP2 OS=Homo sapiens GN=STEAP2 PE=1 SV=3

MESISMMGSPKSLSETFLPNGINGIKDARKVTVGVIGSGDFAKSLTIRLIRCGYHVVIGS  
RNPKFASEFFPHVVDVTHEDALTKTNIIFVAIHREHYTSLWDLRHLLVGKILIDVSNM  
RINQYPESNAEYLASLPDSLIVKGFNVVSAWALQLGPKDASRVYICSNNIARQQVIE  
LARQLNFIPIDLGSLSSAREIENLPLRLFTLWRGPVVVAISLATFFFLYSFVRDVIHPYA  
RNQQSDFYKIPIEIVNKTLPIVAITLLSLVYLAGLLAAAYQLYYGTYRRFPFWLETWLQ  
CRKQLGLLSFFFAMVHVAYSCLPMRRSERYLFLNMAYQQVHANIENSWNEEEVWRIEMY  
ISFGIMSLGLLSLLAVTSIPSVSNALNWREFSFIQSTLGYVALLISTFHVLIYGWKRAFE  
EEYYRFTYPPNFVLALVLPISIVILGKIILFLPCISRKLKRIKKGWEKSQFLEEGMGGTIP  
HVSPERTVM

>sp|Q9UBI4|STML1\_HUMAN Stomatin-like protein 1 OS=Homo sapiens GN=STOML1 PE=1 SV=1

MLGRSGYRALPLGDFDRFQQSSFGFLGSQKGCLSPERGGVGTGADVQSWPSC LCHGLIS  
FLGFLLLLVTFPISGWFALKIVPTYERMIVFRLGRIRTPQGPGMVLLLPFIDSFQRVDLR  
TRAFNVPPCKLASKDGAVLSVGADVQFRIWDPVLSVMTVKDLNTATRMATAQNAMTKALLK  
RPLREIQMEKLIKISDQLLEINDVTRAWGLEVDRELAVEAVLQPPQDSPAGPNLDSTLQ  
QLALHFLGGSMNSMAGGAPSPGPADTVEMVSEVEPPAPQVGARSSPKQPLAEGLLTALQP  
FLSEALVSQVGACYQFNVLPSGTQSAYFLDLTTGRGRVGHGVPDGPVDDVEMAEADLR  
ALLCRELRPLGAYMSGRLKVKGDLAMAMKLEAVLRALK

>sp|P16949|STMN1\_HUMAN Stathmin OS=Homo sapiens GN=STMN1 PE=1 SV=3

MASSDIQVKELEKRASGQAFELILSPRSKESVPEFPLSPPKKKDLSLEEIQKKLEAAEER  
RKSHEAEVLKQLAEKREHEKEVLQKAIEENNNSFKMAEEKLTHKMEANKENREAAKAL  
ERLREKDKHIEEVRKNKESKDPADETAD

>sp|P27105|STOM\_HUMAN Erythrocyte band 7 integral membrane protein OS=Homo sapiens GN=STOM  
PE=1 SV=3

MAEKRHTRDSEAQRLPDSFKDSPSKGLGPCGWILVAFSFLFTVITFPISIWMCIKIKEY  
ERAIIFRLGRILQGGAKGPGFFILPCTDSFIKVDMTISFDIPPQEILTKDSVTISVDG  
VYYYRVQNATLAVANITNADSATRLLAQTTLRNVLGTKNLSQILSDREEIAHNMQSTLDD  
ATDAWGKIVERVEIKDVKLPVQLQRAMAAEAEASREARAKVIAAEGEMNASRALKEASMV  
ITESPAALQLRYLQTLTTIAAEKNSTIVFPLPIDMLQGIIIGAKHSHLG

>sp|Q5TH74|STPG1\_HUMAN O(6)-methylguanine-induced apoptosis 2 OS=Homo sapiens GN=STPG1  
PE=1 SV=1

MDNSAQKNERTGKHPRASEVQKGFATAAYPTQSSIPFKSQASVIPSEKKGFNSQAKRFP  
HKKN DIPGPGFYNVIHQSPVSNVSLSKKGTCMFPSMCARLDTIISKYPAANAYTIPSDF  
ISKRDFSNSSSMFQLPSFMKALKFETPAPNYNASVSCCKQRNNVCTRAGFMSKTQRGS  
FAFADKGPPPGHYDINESLVKQSPNTLMSCFKSKTNRGLKLTSTGPGPGYYNPSDCTKVP  
KKTLFPKNPILNFSAQPSPLPPKPPFPGPGQYEIVDYLGRPKHFISSASFVSNTSRWTA  
PPQPGLPGPATYKPELPGKQSFLYNEDKKWIPVL

>sp|Q9BX79|STRA6\_HUMAN Stimulated by retinoic acid gene 6 protein homolog OS=Homo sapiens  
GN=STRA6 PE=1 SV=1

MSSQPAGNQTSFGATEDYSYGSWYIDEPQGGEELQPEGEVPSCHTSIPPGLYHACLASLS  
ILVLLLLAMLVRRRQLWPDCVRGRPLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLLPD

EDALPFLTLASAPSQDGKTEAPRGAWKILGLFYAAALYYPLAACATAGHTAAHLLGSTLS  
WAHLGVQVWQRAECPQVPKIYKYSSLLASLPLLLGLGFLSLWYPVQLVRSFSRRTGAGSK  
GLQSSYSEEYLRNLLCRKKLGSSYHTSKHGFLSWARVCLRHCIYTPQPGFHLPLKLVLSA  
TLTGTAIYQVALLLVGVVPTIQKVRAGVTTDVSYLLAGFGIVLSEDKQEVVELVKHHLW  
ALEVCYISALVLSCLLTFLVLMRSLVTHRTNLRALHRGAALDLSPLHRSPHPSRQAIFCW  
MSFSAYQTAFICLGLLVQQIIFFLGTTALAFLVLMPLVHGRNLLFRSLESSWPFWTLA  
LAVILQNMAAHWVFLETHDGHPQLTNRRVLYAATFLLFPLNVLVGAMVATWRVLLSALYN  
AIHLGQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTMA  
APQDSLPGEEDEGMQLLQTKDSMAKGARPGASRGARWGLAYTLLHNPTLQVFRKTALL  
GANGAQP

>sp|Q7Z7C7|STRA8\_HUMAN Stimulated by retinoic acid gene 8 protein homolog OS=Homo sapiens  
GN=STRA8 PE=2 SV=1

MGKIDVDKILFFNQEIIRLWQLIMATPEENSNPHDRATPQLPAQLQELEHRVARRRLSQR  
HRATLAALFNNLRKTVYSQSDLIASKWQVLNKAKSHIPELEQTLNLLKLKASFNLEDGH  
ASSLEEVKKEYASMSGNDSFPQNGSSPWYLNFKYQTMDLLTGSGIITPQEAALPIVSAA  
ISHLWQNLSEERKASLRQAWAQKHRGPATLAACREPACAEGSVKDSGVDSQGASCSLVS  
TPEEILFEDAFDVASFLDKSEVPSTSSSSSVLASCNPENPEEKFQLYMQIINFFKGLSCA  
NTQVKQEASFPVDEEMIMLQCTETFDDEDL

>sp|Q13277|STX3\_HUMAN Syntaxin-3 OS=Homo sapiens GN=STX3 PE=1 SV=3

MKDRLEQLKAKQLTQDDDTDAVEIAIDNTAFMDEFFSEIEETRLNIDKISEHVEEAKKLY  
SIILSAPIPEPKTKDDLEQLTTEIKKRANNVRNKLKSMKHIEDEVRSSADLRIRKSQH  
SVLSRKFVEVMKYNEAQVDFRERSKGRIQRQLEITGKKTDEELEEMLESGNPAIFTSG  
IIDSQISKQALSEIEGRHKDIVRLESSIKELHDMFMDIAMLVENQGEMLDNIELNMHTV  
DHVEKARDETKKAVKYQSQARKKLIIIVLVVLLGILALIIGLSVGLN

>sp|Q12846|STX4\_HUMAN Syntaxin-4 OS=Homo sapiens GN=STX4 PE=1 SV=2

MRDRTHELRQGDDSSDEEDKERVALVVHPGTARLGSPDEEFFHKVRTIRQTIVKLGNKVQ  
ELEKQQVTILATPLPEESMKQELQNLRDEIKQLGREIRLQLKAIEPQKEEADENYSVNT  
RMRKTQHGVLSQQFVELINKCSMQSEYREKNVERIRRQLKITNAGMVSDEELEQMLDSG  
QSEVFVSNILKDTQVTRQALNEISARHSEIQQLERSIRELHDIFTFLATEVEMQGEMINR  
IEKNILSSADYVERGQEHVKTALENQKKARKKKVLIAICVSITVVLLAVIIGVTVVG

>sp|O15400|STX7\_HUMAN Syntaxin-7 OS=Homo sapiens GN=STX7 PE=1 SV=4

MSYTPGVGGDPAQLAQRISNIQKITQCSVEIQRTLNLGTPQDSPELRQQLQQKQQYTN  
QLAKETDKYIKEFGSLPTTPSEQRQRKIQKDRLVAEFTTSLTNFQKVQRQAAEREKEFVA  
RVRASSRVSGSPEDSSKERNLVSWESQTQPQVQVQDEEITEDDLRLIHERESSIRQLEA  
DIMDINEIFKDLGMMIHEQGDVIDSIEANVENAEVHVQANQQLSRAADYQRKSRLTLCI  
IILILVIGVAIISLIWGLNH

>sp|Q9UNK0|STX8\_HUMAN Syntaxin-8 OS=Homo sapiens GN=STX8 PE=1 SV=2

MAPDPWFSTYDSTCQIAQEIAEKIQQRNQYERKGEKAPKLTVTIRALLQNLKEKIALKLD  
LLLRAVSTHQITQLEGDRRQNLDDLVTRERLLASFKNEGAEPDLIRSSLMSEEAKRGA  
PNPWLFEPEETRGLGFDEIRQQQKIIQEQQDAGLDALSSII SRQKQMGQEIGNELDEQN  
EIIDDLANLVENTDEKLNRNTRRVNMVDRKSASCGMIMVILLLLVAIVVVAVWPTN

>sp|Q9Y6J8|STYL1\_HUMAN Serine/threonine/tyrosine-interacting-like protein 1 OS=Homo sapiens GN=STYL1 PE=2 SV=1

MPGLLLCEPTELYNILNQATKLSRLTDPNYLCLLDVRSKWEYDESHVITALRVKKKNNEY



LLPESVDLECVKYCVVYDNNSSTLEILLKDDDDSDSDGDGKDLVPQAAIEYGRILTRLT  
HHPVYILKGGYERFSGTYHFLRTQKIIWMPQELDAFQPYPIEIVPGKVFGNFSQACDPK  
IQKDLKIKAHVNVSMDTGPFAGDADKLLHIRIEDSPEAQILPFLRHMCHFIEIHHLGS  
VILIFSTQGISRSCAAIIAYLMHSNEQTLQRSWAYVKKCKNNMCPNRLVSQLLEWEKTI  
LGDSITNIMDPLY

>sp|P53597|SUCA\_HUMAN Succinate--CoA ligase [ADP/GDP-forming] subunit alpha,  
mitochondrial OS=Homo sapiens GN=SUCLG1 PE=1 SV=4

MTATLAAAADIATMVSGSSGLAAARLLSRSFLLPQNGIRHCSYTASRQHLYVDKNTKIIC  
QGFTGKQGTFSQQALEYGTKLVGGTTPGKGGQTHLGLPVFNTVKEAKEQTGATASVIYV  
PPPFAAAAINEAIEAEIPLVVCITEGIPQQDMVRVKHKLLRQEKTRLIGPNCPGVINPGE  
CKIGIMPGHIHKGRIGIVSRSGTLTYEAVHQTQVGLGQSLCVGIGGDPFNGTDFIDCL  
EIFLNSATEGIILIGEIGNAEENAAEFLKQHNSGPNSKPVVSFIAGLTAPPGRRMGHA  
GAIAGGKGGAKEKISALQSAGVVVSMSPAQLGTTIYKEFEKRKML

>sp|Q9UMX1|SUFU\_HUMAN Suppressor of fused homolog OS=Homo sapiens GN=SUFU PE=1 SV=2

MAELRPSGAPGPTAPPAGPTAPPASFASLPPLGLHAIYGECCRRLYPDQPNPLQVTAIVKY  
WLGGPDPLDYVSMYRNVGSPSANIPEHWHYISFGLSDLYGDNRVHEFTGTDGPGSGGFEL  
TFRLKRETGESAPPTWPAELMQGLARYVFQSENTFCSGDHVSWHSPLDNSESRIQHMLLT  
EDPQMGPVQTPFGVVTFLQIVGVCTEELHSAQQWNGQGLELLRTVPIAGGPWLITDMRR  
GETIFEIDPHLQERVDKGIETDGSNLGVSAKCAWDDLSPPEDEDSRSICIGTQPRRL  
SGKDTEQIRETLRRGLEINSKPVLPINPQRQNGLAHDRAPSRKDSLESDSSTAIIPHEL  
IRTRQLESVHLKFNQESGALIPLCRLGRLLHGRHFTYKSITGDMAITFVSTGVEGAFATE  
EHPYAAHGPWLQILLTEEFVEKMLEDLEDLTSPEEFKLPKEYSWPEKKLVSIPLDVVFD  
SPLH

>sp|Q8TC36|SUN5\_HUMAN SUN domain-containing protein 5 OS=Homo sapiens GN=SUN5 PE=2 SV=1

MPRSSRSPGDPGALLEDVAHNPRPRRIAQRGRNTSRMAEDTSPNMNDNILLPVRNNDQAL  
GLTQCMLGCVSWFTCFACSLRTQAQQVLFNTCRCKLLCQKLMKGTGILLCAFGFWMFSI  
HLPSKMKVWQDDSIINGPLQSLRLYQEKVRHHSGEIQDLRGSMNQLIAKLQEMEAMSDEQK  
MAQKIMKMIHGDYIEKPDFALKSIGASIDFEHTSVTYNHEKAHSYWNWIQLWNYAQPPDV  
ILEPNVTPGNCWAFEGDRGQVTIQLAQKVYLSNLTQHIPKTISLSGSLDTAPKDFVIYG  
MEGSPKEEVFLGAFQFQPENIIQMFPLQNQPARAFSAVKVKISSNWGNPGFTCLYRVRVH  
GSVAPPREQPHQNPYPKRD

>sp|Q9UGT4|SUSD2\_HUMAN Sushi domain-containing protein 2 OS=Homo sapiens GN=SUSD2 PE=1  
SV=1

MKPALLPWALLLLATALGPGPGPTADAQESCSMRGALDGPSCSHPCTCSGLGTCCLDFRD  
FCLEILPYSGSMMGGKDFVVRHFKMSSPTDASVICRFKDSIQTLGHVDSSGQVHCVSPLL  
YESGRIPFTVSLDNHGSFPRAGTWLAVHPNKVSMMEKSELVNETRWQYYGTANTSGNLSL  
TWHVKS LPTQTITIELWGYEETGMPYSQEWTAKWSYLYPLATHIPNSGSFTFTPKPAPPS  
YQRWRVGALRIIDSKNYAGQKDVQALWTNDHALAWHLSDDFREDPVAWARTQCQAWEELE  
DQLPNFLEELPDCPCTLTQARADSGRFFTDYGCMEQGSVCTYHPGAVHCVRSVQASLRY  
GSGQQCCYTADGTQLLTADSSGGSTPDRGHDWGAPPFRTPPRVPSMSHWLYDVLSFYCC  
LWAPDCPRYMQRPSNDCRNYPRLASAFGDPHFVTFDGTNFTFNGRGEYVLEAALTD  
LRVQARAQPGTMSNGTETRGTGLTAVAVQEGNSDVVEVRLANRTGGLEVLLNQEVLSTFE  
QSWMDLKGMFLSVAAGDRVSI MLASGAGLEVSVQGPFLLSVSVLLPEKFLTHTHGLLGTLN  
NDPTDDFTLHSGRVLPPGTSPQELFLFGANWTVHNASSLLTYDSWFLVHNFLYQPKHDPT

FEPLFPSETTLNPSLAQEAAKLCGDDHFCNFDVAATGSLSTGTATRVAHQLHQRMMQSLQ  
PVVSCGWLAPPPNGQKEGNRYLAGSTIYFHCDNGYSLAGAETSTCQADGTWSSPTPKCQP  
GRSYAVLLGIIFGGLAVVAVALVYVLLRRRKGNTHVWGAQP

>sp|Q92537|SUSD6\_HUMAN Sushi domain-containing protein 6 OS=Homo sapiens GN=SUSD6 PE=1  
SV=1

MCHGRIAPKSTSVFAVASVGHGVFLPLVILCTLLGDGLASVCPLPPEPENGGYICHPRPC  
RDPLTAGSVIEYLCAEGYMLKGDYKYLTCKNGEWKPAMEISCLNEDKDTHSLGVPTLS  
IVASTASSVALILLVVLVFLVLLQPKLKSFHHSRRDQGVSGDQVSIMVDGVQVALPSYEEA  
VYGSSGHCVPADPRVQIVLSESGSPSGRSVPREQQLPDQACSSAGGEDEAPGQSGLCE  
AWGSRASETVMVHQATTSSWVAGSGNRQLAHKETADSENSDIQSLLSLTSEEYTDIPLL  
KEA

>sp|Q8N300|SVBP\_HUMAN Small vasohibin-binding protein OS=Homo sapiens GN=SVBP PE=1 SV=1  
MDPPARKEKTKVKESVSERVEKAKQKSAQQELKQRQRAEIYALNRVMTELEQQQFDEFCKQ  
MQPPGE

>sp|Q6NVH7|SWAP1\_HUMAN ATPase SWSAP1 OS=Homo sapiens GN=SWSAP1 PE=1 SV=1  
MPAAGPLLLLGTPGSGKTALLFAAALEAAGEGQGPVLFLTRRPLQSMPRGTGTTLDPMR  
LQKIRFQYPPSTRELFRLCSAHEAPGPAPSLLLLDGLEEYLAEDPEPQEAAYLIAALLD  
TAAHFSHRLGPRDCGLMVALQTQEEAGSGDVLHLALLQRYFPAQCWLQPDAPGPGEHGL  
RACLEPGLGPRTEWVWTFRSDGEMMIAPWPTQAGDPSSGKGSSSGGQP

>sp|Q9UH65|SWP70\_HUMAN Switch-associated protein 70 OS=Homo sapiens GN=SWAP70 PE=1 SV=1  
MGSLKEELLKAIWHAFTALDQDHSKVSQSLKVLSHNLCTVLKVPHPVAALEEHRDDD  
EGPVSNGGYMPYLNRFLEKVDNFDKIEFNRCWTLCKKNLTKNPLITEEDAFKIWV  
IFNFLSEDKYPLIIVSEEIEYLLKKLTEAMGGGWQQEQFEHYKINFDDSKNGLSAWELIE  
LIGNGQFSKGMQRQTVSMINEVFNELILDVLKQGYMMKKGHRRKNWTERWVFLKPNIIIS  
YYVSEDLKDKKGDILLDENCCEVESLPDKDGKKCLFLVKCFDKTFEISASDKKKKQEWIQA  
IHSTIHLLKLGSPPHKEARQRRKELRKKQLAEQEELERQMKELQAANESKQEQLEAVRK  
KLEEAASRAAEKKRLQTQVELQARFSTELEREKLIRQQMEEQVAQKSSELEQYLQVR  
ELEDMYLKLQEALEDERQARQDEETVRKLQARLLEEESKRAELEKWHLEQQQAIQTTEA  
EKQELNQRVLKEQALQEAMEQLELELERKQALEQYEEVKKKLEMATNKTSSWKDKVAH  
HEGLIRLIEPGSKNPHLITNWGPAAFTAELEEREKNWKEKKTTE

>sp|Q58G82|SY14L\_HUMAN Putative synaptotagmin-14-like protein OS=Homo sapiens GN=SYT14P1  
PE=5 SV=2  
MLEGFQILVQNTVQGTIHKIKVCDSQMSVSEMSCSESTSACQSLEDGSVPEILISLLYN  
ATNGRLSAEVIKGSHLKNWAANRPNTYVKLTLRKSTDQEMSKCKISIRRGPNPVYKET  
FVFKVTLFQLSHVTLMLSVYNKSSMRKMIGWIYLGLNSSGEELNHWTEMKESKGRQVR  
WQALLESR

>sp|Q5T4T6|SYC2L\_HUMAN Synaptonemal complex protein 2-like OS=Homo sapiens GN=SYCP2L PE=1  
SV=2  
MQAKNKDALQPIKEDRTGKAQDDAFWLQSLITDAFHDKGFQKIKEYFQQKESHFPQKYNR  
LLLRYLDRSINKELDKNEFQSVSLLKCIQRFLVDGLKEDEPLLIRQGLIPKLVSWFERT  
TGILTSEGLASDTSLICVIEDFFDTALIISRSSSEGGIQLMDSFLLSLGFLVTEKTVNHL  
LQQEGLKTFNCILHAVPREERKKFPLSEGMCHLMKDLARTLLTVGDYDQQVAISEALCRL  
TIKKSDELVHKWFDDVIAEAFKEIKDREFETDSRRFLNHLNNRLGDQRRVYSFPCIAA  
FADEHEMRKPADEKLEKFWIDFNLGSQSVTFYIDNAENTLWDSVTLPEAVMNFSITETE

KIKIFIIYLKKPMIISYKEVMKIEIHFDLQFNISQVSIQALGEDKQMLPDQTKISSELS  
KSDKEDRESPGLERETEQAEESTNMVEFMSAEDDRCLITLHLNDQSEPPVIGEPASDSH  
LQPVPFPFVPDFPQQPKSHYRKHFLFSESNDSSSELSWTSNQKKKSLKSYSSRKKTRTR  
SNLRILPVFPSSSGSGHEKDQAKLLSPSEKEIPEQNNTTSPKTSEQKFQDSFAFLTAEDS  
AQKTELQDPHSLSELSSLKHSEDEEKPKIVNQESLTESTSLKHKLRLNLEDKDIPEGSFAK  
SQQSRLEEEVAPGSPFSITEERELPEGISTSSLEVVPENLNGSAILPTFENFTKKRKRKY  
ELRYRKRPFNSENAKKAPDCLIKLLNQMLFRLNKLRFQNLVLQELSSLKQDIQALEHL  
EKEVLEFWGKQSADLQSFCDLQVLRFNSTQTS

>sp|Q8N0S2|SYCE1\_HUMAN Synaptonemal complex central element protein 1 OS=Homo sapiens  
GN=SYCE1 PE=1 SV=2

MAGRSLTSKAEPTAGAVDRAEKAGGQDTSSQKIEDLMEMVQKLQKVGSLPRVEVLINRI  
NEVQQAkkKANKDLGEARTICEALQKELDSLHGEKVHLKEILSKKETLRILRLHCQEKE  
SEAHRKHTMLQECKERISALNLQIEEEKNKQRQLRLAFEEQLEDLMGQHKDLWDFHMPER  
LAKEICALDSSKEQLLKEEKLKATLEDVKHQLCSLCAEGPSTLDEGLFLRSQEAATV  
QLFQEEHRKAELAAAAQRHQQLQKQCQQQQKQRQLKEELEKHGMQVPAQAQSTQEEE  
AGPGDVASPKPLKGERPGAHHQAGPDVLIGQEDTLHPDLSPRGFQEIKELF

>sp|Q9HA77|SYCM\_HUMAN Probable cysteine--tRNA ligase, mitochondrial OS=Homo sapiens  
GN=CARS2 PE=1 SV=1

MLRTTRGPGLGPPLLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQVYNSLTG  
RKEPLIVAHAAEAASWYSCGPTVYDHAHLGHACSYVRFDIIRRILTKVFGCSIVVMGITD  
VDDKIIKRANEMNISPASLASLYEEDFKQDMAALKVLPPTVYLRVTENIPQIISFIEGII  
ARGNAYSTAKGNVYFDLKSREGKYGKLVGVVPGVGEPADSDKRHASDFALWKAAPQEV  
FWASPWGPRPGWHIECSAIASMVFGSQLDIHSGGIDLAFPHHENEIAQCEVFHQCEQWG  
NYFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKTSPDVFRFFCLRSSYRSAIDYSDSAM  
LQAQQLLLGLGSFLEDARAYMKGLACGSVREAMLWERLSSTKRAVKAALADDFDTPRVV  
DAILGLAHHGNGQLRASLKEPEGPRSPAVFGAIIISYFEQFFETVGISLANQQYVSGDGSE  
ATLHGVDDELVRFRQKVRQFALAMPEATGDARRQQLLERQPLLEACDTLRRGLTAHGINI  
KDRSSTTSTWELLDQRTKDQKSAG

>sp|Q0VAF6|SYCN\_HUMAN Syncollin OS=Homo sapiens GN=SYCN PE=2 SV=1

MSPLRPLLLALALASVPCAQGACPASADLKHS DGTRTCAKLYDKSDPYENCCGGAELSL  
ESGADLPYLP SNWANTASSLVVAPRCELTVWSRQKGAGKTHKFSAGTYPRLEEYRRGILG  
DWSNAISALYCRCS

>sp|Q9BX26|SYCP2\_HUMAN Synaptonemal complex protein 2 OS=Homo sapiens GN=SYCP2 PE=2 SV=2

MPIRPDLQQLEKCIDDALRKNDFKPLKTLLQIDICEDVKIKCSKQFFHKVDNLICRELNK  
EDIHNSAILVSVGRCGKNISVLGQAGLLTMIKQGLIQKMWAFKSKDIIQSQGNKDE  
AVLNMIEDLVDLLVIHDVSDEGKKQVVESFVPRICSLVIDSRVNICIQQEIIKKMNAML  
DKMPQDARKILSNQEMILMSSMGERILDAGDYDLQVGIVEALCRMTTEKQRQELAHQWF  
SMDFIAKAFKRIKDESEFETDCRIFLNLVNGMLGDKRRVFTFCLSAFLDKYELQIPSDEK  
LEEFWIDFNLGSQTLSFYIAGDNDHQWEAVTVPEEKVQIYSIEVRESKKLLTIILKNTV  
KISKREGKELLLYFDASLEITNVTQKIFGATKHRESIRKQGISVAKTSLHILFDASGSQI  
LVPESQISPVGEELVSLKEKSKSPKEFAKPSKYIKNSDKGNRNSQLEKTTPSKRKMSEA  
SMIVSGADRYTMRSPVLFNTSIPPRRRRIKPLQMTSSAEKPSVSQTSENRVDNAASLK  
SRSEGRHRRDNIDKHIKTAKCVENTENKNVEFPNQNFSELQDVIPDSQAAEKRDHTILP  
GVLDNICGNIHISKWACWTPVTNIELCNNQRASTSSGDTLNQDIVINKKLTQKSSSSIS

DHNSEGTGKVKYKKEQTDHIKIDKAEVEVCKKHQQQNHHPKYSQGKNTENAKQSDWPVES  
ETTFKSVLLNKTIEESLIYRKKYILSKDVNTATCDKNPSASKNVQSHRKAEEKELTSSELNS  
WDSKQKKMREKSKGKEFTNVAESLISQINKRYKTKDDIKSTRKLKESLINSGFSNKPVVQ  
LSKEKVQKKSyrklTTFVNVtSECPVNDVYNFNLNGADDPiIKLGIQEFQATAKEACAD  
RSIRLVGPRNHDELKSSVKTkdKKiITNHQKKNLFSdTETeYRCDDSKTDISWLREPksk  
PQLIDYSRNKNVKNHKSGKSRSSLEKGPSSKMTPSKNITKMDKTIPEGRIrLPRKATK  
TKKNYKDLNSeSeCEqEFshSFkenIPVKEENiHSRMKTVKLpkKQqKVfCAETeKELS  
KQWKNSSLLKDAIRDNCLDLSPRSLSGSPSSIEVTRCIEKITEKDFTQDYDCITKSISPY  
PKTSSLESLSNSGVGGTIKSPKNEKNFLCASESCSPIRPLFLPRHTPTKSNTIVNRK  
KISSLVLTQETQNSNSYSDVSSYSSEERFMEIESPHINENYIQSKREESHLASSLSKSSE  
GREKTWFDMPCDATHVSGPTQHLsrKRIYIEDNLSNSNEVEMEeKGERRANLLPKLCKI  
EDADHHIHkMSesVSSLSTNDFSIPWETWQNEFAGIEMTYETyERLNSEfKRRNNIRHKM  
LSYFTTQSWKTAQqHLRTMNHQSQDSRIKKLDKFQFiIEELENFEKDSQSLKDLEKEFV  
DFWEKIFqKFSAYQKSEQQLHLLKTSLAKSVFCNTDSEETVFTSEMCLMKEDMKVLQDR  
LLKDMLEEEELLNVRRELMsvfMSHERNANV

>sp|060248|SOX15\_HUMAN Protein SOX-15 OS=Homo sapiens GN=SOX15 PE=1 SV=1

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SAQRRQMAQQNPkMHNSEISKRLGAQWKLlDEDEKRPfVEEAKRLRARHLRDYpDYKYRP  
RRKAKSSGAGPSRCGQGRGNLASGGPLWGPgyATTQPSRGfGYRPPSYSTAYLPGSYGSS  
HCKLEAPSPCSLPQSDPRLQgELLPTyTHYLPPGSPTpYNPPLAGAPMPLTHL

>sp|094993|SOX30\_HUMAN Transcription factor SOX-30 OS=Homo sapiens GN=SOX30 PE=1 SV=1

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SGLQPAVRRLlQVKPEQVLLLPQpQAQNEEAAASSAQARLLQFRPDRLlQPPTASDGAT  
SRPELHPVQPLALHVKAkkQKLGPslDQSVGPRGAVETGPRASRVVKLEGPgPALGYFRG  
DEKGLEAEeVMRDSMQGGAGKSPAAIREGVIKTEEPERlLEDcRLGAEPASNGLVHGSA  
EVILAPTSGAFGPHQqDLRIPLTLHTVPPGARIQfQGAPPSELIRLTKVPLTPVPTKMQS  
LLEPSVKIETKDVPLTVLPsDAGIPDTPFSKDRNGHVKRPMAFMVWARiHRPALAKANP  
AANNAEISVQLGLEWNKLSEEQKKPYDEAQKIKEKHREEFPGWVYQPRPGKRKRfPLSV  
SNVFSGTTQNIISTNPTTVYPYRSPTYSVVIPSLQNPITHPVGETSPAIQLPTPAVQSPS  
PVTlFQPSVSSAAQVAVQDPSLPVYPALPPQRFTGPSQTDTHQLHSEATHVKQPTPVSL  
ESANRISSASTAHARFATSTIQPPREYSSVSPCPRSAPIPQASPIPHPHVYQPPPLGHP  
ATlFGTPPRFSFHHPYFLPGPHYfPSSTCPYSRPPfGYGNfPSSMPECLSYyedRYPKHE  
GIFSTLNRDYSFRDYSSECTHSENSRSCENMNGTSYyNSHSHSGEENLNpVPQLDIGTLE  
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>sp|Q9P0Z9|SOX\_HUMAN Peroxisomal sarcosine oxidase OS=Homo sapiens GN=PIPOX PE=1 SV=2

MAAQKDLWDAIVIGAGIQCCTAYHLAKHRKRILLLEQFFLPHSRGSSHGQSRIIRKAYL  
EDFYTRMMHECYQIWAQLEHEAGTQLHRQTGLLLLGMKENQELKTIQANLSRQRVEHQCL  
SSEELKQRFpNIRLPRGEVGLLDNSGGVIYAYKALRALQDAIRQLGGIVRDGEKVVEINP  
GLLVTVKTTSRSYQAKSLVITAGPWTNQLLRPLGIEMPLQTLRINVCYWREMPGsyGVS  
QAFPCFLWGLCPHHIYGLPTGEYPGLMKVSYHHGNHADPEERDCPTARTDIGDVQILSS  
FVRDHLpDLKPEPAVIESCMYTNTpDEQFILDHRHPKYDNIVIGAGfSGHGfKLAPVVGKI  
LYELSMKLTPSYDLAPFRISRFPSLGKAHL

>sp|POC7V6|SP202\_HUMAN Putative transcription factor SPT20 homolog-like 2 OS=Homo sapiens  
GN=SUPT20HL2 PE=5 SV=1

MDRDLEQALDRTENITEIAQRRPRRRYSRAGKTLQEKLYDIYVEECGKEPEDPQELRS  
NVNLEKLVRRESLPCLLVNLYPGNQGYSVMLQREDGSFAETIRLPYEERALLDYLDAEE  
LPPALGDVLDKASVNIHSGCVIVEVRDYRQSSNMQPPGYQSRHILLRPTMQTLAPEVKT  
MTRDGEKWSQEDKFPLESQLILATAEPLCLDPSVAVACTANRLLYNKQKMNTDPMEQCLQ  
RYSWPSVKPQQEQSDCPPPELRVSTSGQKEERKVGQPCELNITKAGSCVDTWKGRPCDL  
AVPSEVDVEKLAKGYQSVTAADPQLPVWPAQEVEDPFRHAWEAGCQAWDTKPNIMQSFND  
PLLCGKIRPRKKARQKSQKSPWQFPDHSACLRPGETDAGRAVSQAQESVQSKVKGP  
KMSHSSSGPASVSQLSSWKTPEQDPVWVQSSVSGKGEKHPPTQLPSSSGKISSGNSF  
PPQQAGSPLKRPFAAAAPAVAAAAAPAPAPAAAPALAAAAVAAAAGGAAPSHSQKPSVP  
LIKASRRRPAAGRPTRFVKIAPAIQVRTGSTGLKATNVEGPVRGAQVLGCSFKPVQAPGS  
GAPAPAGISGSLQSSGGLPDARPGAVQASSPAPLQFFLNTPEGLRPLTLQVPQGWAVL  
TGPQQQSHQLVSLQQLQOPTAAHPPQPGPQGSTLGLSTQGQAFPAQQLLNVLNLTGAGSGL  
QPQPQAAVLSLLGSAQVPQQGVQLPFVLGQQPQPLLLQPPQPQQIQLQTQPLRVLQQP  
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>sp|Q8NEM7|SP20H\_HUMAN Transcription factor SPT20 homolog OS=Homo sapiens GN=SUPT20H PE=1  
SV=2

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VNLLEKLVMEQLSCLVNLYPGNEGYSMLRGKNGSDSETIRLPYEEGELLEYLDAEEL  
PPILVDLLEKSQVNIHFCGCVIAEIRDYRQSSNMKSPGYQSRHILLRPTMQTLICDVHSI  
TSDNHKWTQEDKLLLESQILATAEPLCLDPSIAVTCTANRLLYNKQKMNTRPMKRCFKR  
YSRSSLNRQQDLSHCPPPQLRLDLQKRKERKAGQHYDLKISKAGNCVDMWKRSPCNL  
AIPSEVDVEKYAKVEKSIKSDDSQPTVWPAHDVKDDYVFECEAGTQYQKTKLTILQSLGD  
PLYGKIQPCKADEESDSQMSPSHSSTDHNSNFIIGSKTDAERVVNQYQELVQNEAKCP  
VKMSHSSSGSASLSQVSPGKETDQTETVSVQSSVLGKGVKHRPPPIKLPSSSGNSSSGNY  
FTPQQTSSFLKSPTPPSSKPSIPRKSSVDLNQVSMSPAALSPASSSQRTTATQVMAN  
SAGLNFINVVGSCGAQALMSGSNPMLGCNTGAITPAGINLSGLLPSGGLLPNALPSAMQ  
AASQAGVPFGLKNTSSLRPLNLLQLPGGSLIFNTLQQQQQQLSQFTPPQPQQPTTCSPPQ  
PGEQGEQGSTSQEQALSAQAAVINLTGVGSFMQSAAVLSQLGSAENRPEQSLPQQR  
QLSSAFQQQQQQIQLRFLQHQMAMAAAAAQTAQLHHHRHTGSQSKSKMKRGTPTTPKF

>sp|Q02446|SP4\_HUMAN Transcription factor Sp4 OS=Homo sapiens GN=SP4 PE=1 SV=2

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ASSSSSSSSNNGSASPTKTKSGNSSTPGQFQVIQVQNPSGSVQYQVIPQLQTVEGQQIQ  
INPTSSSSSLQDLQGGIQLISAGNNQAILTAANRTASGNILANLANQTVPVQIRPGVSIP  
LQLQTLPGTQAQVVTTLPINIGGVTALPVINNVAAGGGTGQVQPAATADSGTSNGNQL  
VSTPTNTTTSASTMPESPSSSTCTTTASTSLTSSDTLVSSADTGQYASTSASSSERTIE  
ESQTPAATESEAQSSSQLQPNGMQNAQDQSNLQQVQIVGQPIQQIQQPQQQIIQAI  
PPQSFQLQSGQTIQTIQQQPLQNVQLQAVNPTQVLIAPTLTPSGQISWQTVQVQNIQSL  
SNLQVQNAGLSQQLTITPVSSSGGTTLAQIAPVAVAGAPITLNTAQLASVPNLQTVSVAN  
LGAAGVQVQGVPTITSVAGQQQGQDGVKVQQATIAPVTVAVGQIANATIGAVSPDQLTQ  
VHLQQGQQTSDQEVQPGKRLRRVACSCPNCREGEGRGSNEPGKKKHICHIEGCGKVYGK  
TSHLRAHLRWHTGERPFCNWMFCGRKFRTRDELQRHRRHTHTGEKRFECPECSKRFMRSD  
HLSKHVKTHQNKGGGTALAIVTSGELDSSVTEVLGSPRIVTVAAISQDSNPATPNVSTN  
MEEF

>sp|Q96P15|SPB11\_HUMAN Serpin B11 OS=Homo sapiens GN=SERPINB11 PE=2 SV=1

MGSLSTANVEFCLDVFKELNSNIGDNIFSSLSLLYALSMVLLGARGETAEQLEKVLHF  
SHTVDSLKPGFKDSPKCSQAGRIHSEFGVEFSQINQPDNCTLSIANRLYGTKTMAFHQQ  
YLSCSEKQYQARLQTVDFEQSTEETRKMIAWVENKTNGKVANLFGKSTIDPSSVMVLVN  
IIYFKGQRQNKQVRETVKSPFQLSEGKNVTVEMMYQIGTFKLAFVKEPQMQLVLELPYVN  
NKLSMIILLPVGIANLQIEKQLNSGTFHEWTSSSNMMEREVEVHLPRFKLEIKYELNSL  
LKPLGVTDLFNQVKADLSGMSPTKGLYLSKAIHKS YLDVSEEGTEAAAAATGDSIAVKSLP  
MRAQFKANHPFLFFIRHTHTNTILFCGKLASP

>sp|Q9Y4P9|SPEF1\_HUMAN Sperm flagellar protein 1 OS=Homo sapiens GN=SPEF1 PE=1 SV=3

MASSVDEEALHQLYLWVDNIPLSRPKRNLSDRDSGVLVAEVIKFYFPKMVEMHNYVPAN  
SLQQKLSNWGHLNRKVLKRLNFSVPDDVMRKIAQCAPGVVELVLIPLRQRLEERQRRRKQ  
GAGSLQELAPQDGSYMDVGVSGKARGEGVPDPQGGGQLSWDRPPAPRPPAYNRALQGDP  
SFVLQIAEKEQELLASQETVQVLQMKVRRLEHLLQLKNVRIEDLSRRLQQAERKQR

>sp|Q9C093|SPEF2\_HUMAN Sperm flagellar protein 2 OS=Homo sapiens GN=SPEF2 PE=2 SV=2

MSEILCQWLNKELKVSRTVSPKSAFAKFSSGYLLGEVLHKFELQDDFSEFLDSRVSSAKL  
NNSRLEPTLNLLGVQFDQNAHGIIITEKPGVATKLLYQLYIALQKKKSGLTGVEMQTM  
QRLTNLRLQNMKSDTFQERLRHMI PRQTD FNLMRITYRFQEKYKHVKEDLAHLHFEKLER  
FQKLKEEQRCFDIEKQYLNRRRQNEIMAKIQAAIIQIPKPASNRTLKALEAQKMMKKKKE  
AEDVADEIKKFEALIKKDLQAKESASKTSLDTAGQTTTDLNTYSDD EYIKKIQRLEED  
AFAREQREKRRRKLMDQLIAHEAQEEAYREEQLINRLMRQSQQERRIAVQLMHRHEKE  
VLWQNRIFREKQHEERRLKDFQDALDREAALAKQAKIDFEEQFLKEKRFHDQIAVERAQA  
RYEKHYSVCAEILDQIVDLSTKVADYRMLTNNLIPYKLMHDWKELFFNAKPIYEQASVKT  
LPANPSREQLTELEKRDLLDNDYEEYKNMVG EWALPEEMVDNLPPSNNCILGHILHRLA  
EKSLPPRAESTTPELPSFAVKGCLLGKTL SGKTTILRSLQKDFPIQILSIDTLVQEAIQA  
FHDNEKVSEVLPIQKNDEEDALPVLQEEIKESQDPQHVFSA GPVSDEVLPETEGETMLSA  
NADKTPKAAEEVKSDFSFLKLTTRAQLGAKSEQLLKKGKSIPDVLLVDIIVNAINEIPVNQ  
DCILDGFPMTLNQAQLLEEALTGCNRNLTEVERKKAQKSTLAIDPATSK E IPLPSAFDF  
VILLDVS DTSSMSRMNDIIAEELSYKTAHEDISQRVAAENQDKDGDQNL RDQIQHRIIGF  
LDNWPLLEQWFSEPENILIKINAEIDKESLCEKVKEILTTEIAKKKNKVEKKLEEKEAEK  
KAAASLAELPLTPPPAPPPEPEKEKEIHQSHVASKTPTAKGKPQSEAPHGKQESLQEGK  
GKKGETALKRKGSPKGS GGKVPVKSPADSTDTSPVAIVPQPPKPGSEEWVYVNEPVP  
EEMPLFLVPYWELIENSYINTIKTVLRHLREDQHTVLA YL YEIRTSFQEFLKRPD HKQDF  
VAQWQADFNSLPDDLWDDEETKAELHQRVNDLRDRLWDICDARKEEAEQERLDIINESWL  
QDTLGMTMNHFFSLMQAELNRFQDTRKLLQDYYWGMESKIPVEDNKRFRITRIPLVQLDSKD  
NSESQLRIPLVPRISISLETVTPKPKTKSVLKGKMDNSLENVESNFEADEKLVMDTWQQA  
SLAVSHMVA AEIHQRLMEEKENQPADPKEKSPQMGANKKVKKEPPKKKQEDKKPKGKSP  
PMAEATPVIVTTEEIAEIKRKNELRVKIKEEHLAALQFEEIATQFRLELIKTKALALLED  
LVTKVVDVYKLMKWLGERYLNEMASTEKLTDVARYHIETSTKIQNELYLSQEDFFINGN  
IKVFPDPPPSIRPPPVEKEEDGTLTIEQLDSL RDQFLD MAPKGIIGNKAFTDILIDLVTL  
NLGTNNFSPSNWMLTQPELQELTSLLT VNSEFVDWRKFLLVTSMPWPIPLEEELETLQK  
FKAVDKEQLGTITFEQYMQAGLWFTGDEDIKIPENPLEPLPFNRQEHLIEFFFRLFADYE  
KDPPQLDYTQMLLYFACHPDTVEGVYRALSVAVGTHVFQVKASIPSAEKSSTDAGPAE  
EFPEPEENAAREERKLKDDTEKREQKD EEPENANNEKMSMETLLKVFKGGSEAQDSNRF  
ASHLKIENIYAEGFIKTFQDLGAKNLEPIEVAVLLKHPFIQDLISNYS DYKFPDIKILQ

RSEHVQGS DGERSPSRHTEKK

>sp|Q15513|SPHAR\_HUMAN Protein SPHAR OS=Homo sapiens GN=SPHAR PE=4 SV=1  
MTRIKISVCICFRYFEFCFFYALNLFQKVSEANSQTELLLRPHCKNILFNVSF MIDLQA  
AHF

>sp|Q9NYA1|SPHK1\_HUMAN Sphingosine kinase 1 OS=Homo sapiens GN=SPHK1 PE=1 SV=1  
MDPAGGPRGVLPRPCRVLVLLNPRGGKGKALQLFRSHVQPLLA EAEISFTLMLTERRNHA  
RELVRSEELGRWDALVVM SGDGLMHEVVNGLMERPDWETA IQKPLCSLPAGSGNALAASL  
NHYAGYEQVTNEDLLTNCTLLLCRRLSPMNLLSLHTASGLRLFSVLSLAWGFIADV DLE  
SEKYRRLGEMRFTLTGTLRLAALRTYRGRLAYLPVGRVGSKTPASPVV VQQGPVDAHLVP  
LEEPVPSHWTVPDEDFVLVLALLHSHLGSEMF AAPMGRCAAGVMHLFYVRAGVSRAMLL  
RLFLAMEKGRHMEYECPYLVYVPVVAFRLEPKDGKGVFAVDGELMVSEAVQ GQVHPNYFW  
MVSGCVEPPPSWKPPQMPPEEPL

>sp|Q8N5J4|SPIC\_HUMAN Transcription factor Spi-C OS=Homo sapiens GN=SPIC PE=2 SV=1  
MTCVEQDKLGQAFEDA FEVL RQHSTGDLQYSPDYRNYLALINHRPHVKGNSSCYGVL PTE  
EPVYNWRTVINSAADF YFEGNIHQSLQNITENQLVQPTLLQQKGKGRKKLR LFEYLHES  
LYNPEMASCIQWVDKTKGIFQFVSKNKEKLAELWGKRKG NRKTM TYQKMARALRNYGRSG  
EITKIRRKLT YQFSEAILQRLSPSYFLGKEIFYSQCVQPDQEYLSLNNW NANYNYTYANY  
HELNHHDC

>sp|Q56A73|SPIN4\_HUMAN Spindlin-4 OS=Homo sapiens GN=SPIN4 PE=1 SV=1  
MSPPTVPPMGVDGVSAYLMKKRH THRKQRRKPTFLTRRNIVGCR IQHGWKEGNEPVEQWK  
GTVLEQVSVKPTLYI IKYDGDKSVYGLELHRDKRVLAL EILPERVPTPRIDSRLADSLIG  
KAVEHVFEGEHG TKDEWKG MVLARAPVMDTW FYITYEKDPVLYMYTLDDYKDGD LRIIP  
DSNYFFPTAEQEPGEVVD SLVGKQVEHAKDDGSKRTGIF IHQVVAKPSVYFIKFD DDIHI  
YVYGLVKTP

>sp|P49223|SPIT3\_HUMAN Kunitz-type protease inhibitor 3 OS=Homo sapiens GN=SPINT3 PE=3  
SV=3  
MQLQASLSFLLILTLCLELRSELARDTIKDLLPNVCAFPMEKGPCQTYMTRWFFNFETGE  
CELFAYGGCGNSNFLRKEKCEKCKFT

>sp|Q2M3C7|SPKAP\_HUMAN A-kinase anchor protein SPHKAP OS=Homo sapiens GN=SPHKAP PE=1 SV=1  
MDGNSLLSVPSNLESSRMYDVLEPQQGRGCGSSGSGPGNSITACKKVLRSNSLLESTDYW  
LQNQRMP CQIGFVEDKSENCASVCFVNL DVNKDECSTEHLQQKL VNVSPDLPKL ISSMN V  
QQPKENEIVVLSGLASGNLQADFEVSQCPWLPDICLVQCARGNRPNSTNCIIFEINKFLI  
GLELVQERQLHLETN ILKLEDDTNC SLSSIEEDFLTASEHLEEESEVDESRNDYENINVS  
ANVLESKQLKGATQVEWNCNKEKWLYALEDKYINKYPTPLIKTERSPENLTKN TALQSLD  
PSAKPSQWKREAVGNRQATHYHSEAFKGQMEKSQALYIPKDAYFSMMDKDVPSACAVA  
EQRSNLNPGDHEDTRNALPPRQDGEVTTGKYATNLAESVLQDAFIRLSQSQSTLPQESAV  
SVSVGSSLLPSCYSTKDTVVSRSWNELPKIVVVQSPDGSDAAPQPGISSWPEMEVSVETS  
SILSGENSSRQPQSALEVALACAA TVIGTISSPQATERLKMEQVVS NFPPGSSGALQTQA  
PQGLKEPSINEYSFPSALCGMTQVASAVAVCGLGEREEVTC SVAPSGSLPPAAEASEAMP  
PLCGLASMELGKEAIAKGLLKEAALVLRPN TYSSIGDFLDSMNRRIMETASKSQTLCSE  
NVVRNELAHTLSNVILRHS IDEVHHKNMIIDPNDNRHSSEILDTLMESTNQLLLDVICFT  
FKKMSHIVRLGECPAVLSKETIRRETEPSCQPSDPGASQAWTKATESSSSSPLNSHNT  
SLVINNLVDGMYSKQDKGVRPGLFKNPTLQS QLSRSHRVPDSSTATTSKEIY LKGIAG  
EDTKSPHHSENE CRASSEGQRSPTVSQSRSGSQEAEESIHPNTQEKYNCATSRINEVQVN

LSLLGDDLLLPAQSTLQTKHPDIYCITDFAEELADTVVSMATEIAAICLDNSSGKQPWFC  
AWKRGSEFLMTPNVPCRSCLKRKESQGSQTAVRKHKPPRLSEIKRKTDEHPKELKELMNR  
VVDESMNLEDVPDSVNLFANEVAAKIMNLTEFSMVDGMWQAQGYPRNRLSGDRWSRLKA  
SSCESIPEEDSEARAYVNSLGLMSTLSQPVSRASSVSKQSSCESITDEFSRFMVNMENE  
GRGFELLLDYYAGKNASSILNSAMQQACRKSDDLVRPSCPSKQSSITESITEFYRYMLR  
DIERDSRESASSRRSSQDWTAGLLSPSLRSPVCHRQSSMPDSRSPCSRLTVNVPKANS  
DGFAQNCPQDFLSVQPVSSASSGLCKSDSCLYRRGGTDHITNMLIHETWASSIEALMRK  
NKIIVDDAEADTEPVSGGSPSQAEKCANRLAASRMCSGPTLLVQESLDCPRKDSVTECK  
QPPVSSLKSTASLTNHSPLDSKETSSCQDPVPINHKRRSLCSREVPLIQIETDQREACA  
GEPEPFLSKSSLLLEEAGHSNDKNIPDVVRGGDTAVSACQIHSDSLDTRDVPEAEASTEA  
RAPDEAPNPPSSSEESTGSWTQLANEEDNPDDTSSFLQLSERSMSNGNSSATSSLGIMDL  
DIYQESMPSSPMINELVEKKILKGQSESTEAPASGPPTGTASPQRSLLVINFDLEPECP  
DAELRATLQWIAASELGIPTIYFKKSQENRIEKFLDVVQLVHRKSWKVGDIHAVVQYCK  
MHHEQKDGRLSLFDWLLELG

>sp|Q6ZMD2|SPNS3\_HUMAN Protein spinster homolog 3 OS=Homo sapiens GN=SPNS3 PE=2 SV=2

MAGGMSAECPEPGPGGLQGQSPGPGRCPPPIPTPSWSLPPWRAYVAAVLCYINLLNYM  
NWFIIAGVLLDIQEVFQISDNHAGLLQTVFVSCLLLSAPVFGYLGDRHSRKATMSFGILL  
WSGAGLSSSFISPRYSWLFSLRGIVGTGSASYSTIAPTVLGDLFVRDQRTRVLAVFYIF  
IPVGSGLGYVLGSAVTMLTGNWRWALRVMPCLEAVALILLILLVPDPPRGAAETQGEAV  
GGFRSSWCEDVRYLGKNWSFVWSTLGVTAMAFVTGALGFWAPKFLLEARVVHGLQPPCFQ  
EPCSNPDSLIFGALTIMTGIVIGILGAEAARYKVIPGAELICASSLLATAPCLYLAL  
VLAPTTLLASYVFLGLGELLLSCNWAVVADILLSVVVPRCRGTAEALQITVGHILGDAGS  
PYLTGLISSVLRARRPDSYLQFRSLQQSFLCCAFVIALGGGCFLLTALYLERDETRAWQ  
PVTGTPDSNDVDSNDLERQGLLSGAGASTEPP

>sp|Q9BXN6|SPANXD\_HUMAN Sperm protein associated with the nucleus on the X chromosome D  
OS=Homo sapiens GN=SPANXD PE=1 SV=1

MDKQSSAGGVKRSVPCDSNEANEMMPETSSGYSDPQAPKPKLTSESSTILVVRYRRNFK  
RTSPEELVNDHARKNRINPLQMEEEEFMEIMVEIPAK

>sp|Q9BUD6|SPON2\_HUMAN Spondin-2 OS=Homo sapiens GN=SPON2 PE=1 SV=3

MENPSPAALGKALCALLLATLGAAGQPLGGESICSARALAKYSITFTGKWSQTAFPKQY  
PLFRPPAQWSSLLGAHSSDYSMWRKNQYVSNGLRDFAEERGEAWLMKEIEAAGEALQSV  
HEVFSAPAVPSGTGQTSAELEVQRRHSLVSFVVRIVPSPDWFGVDSLDCDGRWREQA  
ALDLYPYDAGTDSGFTFSSPNFATIPQDTVTEITSSSPSHPANSFYYPRLKALPPIARVT  
LVRLRQSPRAFIPPAPVLPSPDNEIVDSASVPETPLDCEVSLWSSWGLCGGHGCRGLGTS  
RTRYVRVQPANNGSPCPELEEEAECPDNCV

>sp|Q7Z572|SPT21\_HUMAN Spermatogenesis-associated protein 21 OS=Homo sapiens GN=SPATA21  
PE=2 SV=3

MDNRNTQMYTEEEKTVNPFLPSTPGPKKAKGGGEAVETHPAPGPLPPPEVRDIGERREPD  
RAQQQPQKPAVAAGTQSLGNFRQGFMKCLLEVEKMEASHRRASKARSQTAQKSPRTLTPV  
PTSAPSLPQTASVPASGPSWARLPAPGPEPAPMGAPVPTSMPCPVLLGPALDLGWRRME  
LLHQSSERTLSYAKARQEPEEQSLQKLYQNREKSEEQLTLKQEEAFRSYFEIFNGPGEVD  
AQSLKNILLMLGFSVTLAQVEDALMSADVNGDGRVDFKDFLAVMTDTRRFFCSVEQNALS  
DMAPHNPHTLLFEILSLLVEMALPEAVLEEITNYYQKKLKEGTCKAQEMEAAVGRLRLQ  
KLPYNPQQEESSEVPERKVLSILSRLKQQNYAPNLQSPYAQVPCILLCPQLDKKMVRRQP



SNHYALDQCTPPGLDPDIRSPFFQSGSQGNREHNSDSRKWLSSVPARTH

>sp|Q9BR10|SPT25\_HUMAN Spermatogenesis-associated protein 25 OS=Homo sapiens GN=SPATA25  
PE=1 SV=1

MSYFRTPQTHPGPLPSGQGGAASPLSLGLCSPVEPVVVASGGTGPLSQKAEQVAPAAQA  
WGPALAMPQARGCPGGTSWETLRKEYSRNCHKFPHVRQLESLGWDNGYSRSRAPDLGGPS  
RPRPLMLCGLSPRVLPVPSEAVGKEASSQPDICILTLAMMIAGIPTVPVPGVREEDLIWA  
AQAFMMAHPEPEGAVEGARWEQAHHTASGKMPLVRSKRGQPPGSCL

>sp|Q8NHX4|SPTA3\_HUMAN Spermatogenesis-associated protein 3 OS=Homo sapiens GN=SPATA3  
PE=2 SV=2

MKKVKKKRSEARRHRDSTSQHASSNSTSQQPSPESTPQQPSPESTPQQPSPESTPQHSSL  
ETTSRQPAFQALPAPEIRRSSCCLLSPDANVKAAPQSRKAGPLIRAGPHSCSCATCPCSS  
ACWRRGLGLCHSRIFDVLPRDWMAPGRGLPNLLTFYRKSSRKPSSHRNACPPSPRNCGC  
GSGGSRSCLLHH

>sp|O15270|SPTC2\_HUMAN Serine palmitoyltransferase 2 OS=Homo sapiens GN=SPTLC2 PE=1 SV=1

MRPEPGGCCRRTRVANGCVANGEVRNGYVRSSAAAAAAGQIHHTVQNGGLYKRPFN  
EAFEETPMLVAVLTYVGYGLTLFGYLRDFLYWRIEKCHHATEREEQKDFVSLYQDFEN  
FYTRNLYMRIRDNWNRPICSVPGARVDIMERQSHDYNWSFKYTGNIKGVINMGSYNYLG  
FARNTGSCQEAARKVLEEYAGVCSTRQEIGNLDKHEELEELVARFLGVEAAMAYGMGFA  
TNSMNIPALVGKGCLILSDELNHASLVLGARLSGATIRIFKHNNMQSLEKLLKDAIVYGQ  
PRTRRPWKKILILVEGIYSMEGSIVRLPEVIALKKKYKAYLYLDEAHSIGALGPTGRGVV  
EYFGLDPEDVDVMMGTFTKSFGASGGYIGGKELIDYLRTHSHSAVYATSLSPVVEQII  
TSMKCIMGQDGTSLGKECVQLAENTRYFRRRLKEMGFIIYGNEPSPVPLMLYMPAKIG  
AFGREMLKRNIGVVVGFAPATPIESRARFCLSAHTKEILDALKEIDEVGDLLQLKYS  
RHRLVPLDRPFDETTYEETD

>sp|Q96JI7|SPTCS\_HUMAN Spatacsin OS=Homo sapiens GN=SPG11 PE=1 SV=3

MAAEEGVASAASAGGSWGTAAMGRVLPMLLPVPVPAEAMGQLGSRAQLRTQPEALGSLTAA  
GSLQVLSLTPGSRGGRCCLGEPFWHFLWEDSRNSSTPTEPKLLALGENYELLIYEFNL  
KDGRCDATILYSCSREALQKLIDDQDISISLLSLRILSFHNNTSLLFINKCVILHIIFPE  
RDAAIRVLNCFTLPLPAQAVDMIIDTQLCRGILFVLSSLGWIIYIFDVVDGTYVAHVDLAL  
HKEDMCNEQQEPAKISSFTSLKVSQDLDAVIVSSNSAVALNLYFRQHPGHLLCER  
ILEDLPQGPKGVEDDPVNSAYNMKLAKFSFQIDRSWKAQLSSLNETIKNSKLEVSCCA  
PWFQDILHLESPESGNHSTSVQSWAFIPQDIMHGQYNVLQKDHAKTSDPGRSWKIMHISE  
QEEPIELKCVSVTGFTALFTWEVERMGYTITLWDLETQGMQCFSLGTCIPVDSSGDQQL  
CFVLTENGLSLILFGLTQEEFLNRLMIHGSASTVDTLCHLNGWGRCIPIHALEAGIENR  
QLDTVNFFLKSKENLFNPSSKSSVSDQFDHLSSHLYLRNVEELIPALDLLCSAIRESYSE  
PQSKHFSEQLNLTLSFLNNQIKELFIHTEELDEHLQKGVNILTYSINELRTFMKFPWK  
LTDAIDEYDVHENVPVKESNIWKLSFEEVIAAILNNKIPEAQTFFRIDSHSAKLEE  
LIGIGLNLVFDNLKKNIKEASELLKNMGFDVKGQLLKICFYTTNKNIRDFLVEILKEKN  
YFSEKEKRTIDFVHQVEKLYLGHFQENMQIQSFPRYWIKEQDFFKHKSVDLSFLKYDCKD  
EFNKQDHRIVLNWALWWDQLTQESILLPRISPEEYKSYSPEALWRYLTARHDWLNIIILWI  
GEFQTQHSYASLQQNKWPLLTVDVINQNTSCNNYMRNEILDKLARNGVFLASELEDFECF  
LLRLSRIGGVIQDTLPVQNYKTEGWDFHSQFILYCLEHSLQHLLYVYLDYKLSPENCP  
FLEKKELHEAHPWFEFVLVQCRQVASNLTPKLIQASLANAQILIPTNQASVSSMLLEGH  
TLLALATTMSPGGVSQVQNEENENCLKKVDPQLKLMALTPYPKLKTALFPQCTPPSVL

PSDITIYHLIQSLSPFDP SRLFGWQSANTLAIGDAWSHLPHFSSPDLVNKYAIVERLNFA  
YYLHNGRPSFAFGTFLVQELIKSKTPKQLIQVGNAYVIGLSSFHIPSIGAACVCFLEL  
LGLDSLKL RVDKMANIILSYKCRNEDAQYSFIREVAEKL SKLADGEKTTTEELLVLE  
EGTWN SIQQQEIKRLSSESSSQWALVVQFCRLHNMKLSISYLRECAKANDWLQFI IHSQL  
HNYHPAEVKSLIQYFSPVIQDHLRLAFENLPSVPTSKMDSQVCNKCPQELQGSQKEMTD  
LFEILLQCSEEPDSWHWLLVEAVKQAPILSVLASCLQGASAI SCLCVWIITSVEDNVAT  
EAMGHIQDSTEDHTWNLEDLSVIWRTLLTRQKSKTLIRGFQLFFKDSPLLLVMEMYELCM  
FFRNYKEAEAKLLEFQKSLETNLTAATKVHPVIPAMWLEDQVCFLKLMLQQCKTQYELG  
KLLQLFVEREHLFSDGPDVKKLCILCQILKDTSI AINHTIITSYSIENLQHECRSILERL  
QTDGQFALARRVAELAE LPVDNLVIKEITQEMQTLKHIEQWSLKQARIDFWKKCHENFKK  
NSISSKAASSFFSTQAHVACEHTGWSSMEERHLLTLAGHWLAQEDVPLDKLEELEKQ  
IWLCRITQHTLGRNQEETEPFRSRQISTSGELSFDSLASEFSFSKLAALNTSKYLELSL  
PSKETCENRLDWKEQESNLFLIGRLDDGCVHEASRVCRYFHFYNPDVALVLHCRALASG  
EASMEDLHPEIHALLQSAELLEEEAPDIPLRRVHSTSSLD SQKFVTVPSNEVVTNLEVL  
TSKCLHGKNYCRQVLCYDLAKELGCSYTDVAAQDGEAMLRKILASQQPDRCKRAQAFIS  
TQGLKPD TVAELVAEEVTRELLTSSQGTGHKQMFNPTEESQTFLQLTTL CQDRTL VGMKL  
LDKISSVPHGELSCTTELLILAHHCFTLTCHMEGIIRVLQAAHMLTDNHLAPSEEYGLVV  
RLLTGIGRYNEMTYIFDLLHKKHYFEVLMRKKLDPSGTLKTALLDYIKRCRPGDSEKHM  
IALCFSMCREIGENHEAAARIQLKLIESQPWEDSLKDGHQLKQLLLKALTLMLDAAESYA  
KDSCVRQAQHCQRLTKLITLQIHFLNTGQNTMLINLGRHKLMDCILALPRFYQASIVAEA  
YDFVPDWA EILYQVILKGFNYLEEFKQQRLLKSSIFEEISKKYKQHQP TDMVMENLKK  
LLTYCEDVLYYKLAYEHKFYEIVNVLLKDPQTGCCLKDMLAG

>sp|Q13813|SPTN1\_HUMAN Spectrin alpha chain, non-erythrocytic 1 OS=Homo sapiens GN=SPTAN1  
PE=1 SV=3

MDPSGVK VLETAEDIQERRQQVLD RYHRFKELSTLRRQKLED SYRFQFFQRDAEELEKWI  
QEKLIASDENYKDPN LQGKLQKHQAFEA EVQANS GAIVKLD ETGNLMISEGHFAS ETI  
RTRLME LHRQWEL LLEKMR EGIKLLQAQKL VQYLRECE DVMWINDKEAIVTSEELGQD  
LEHVEVLQKKFEEFQDMAAHEERVNEVNQFAAKLIQE QHPHEELIKTKQDEVNAAWQRL  
KGLALQRQGKLF GAEEVQRFN RDVDETISWIK EKEQLMASDDFGRDLASVQALLRKHEGL  
ERDLAALEDKV KALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLAAERHARLND S  
YRLQRFLADFRDLTSVWTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSA  
DESGQALLAAGHYASDEVREKLTVLSEERAALLELWELRRQQYEQCMDLQLFYRDTEQVD  
NWMSKQEAFLNEDLGD SLDSVEALLKKHEDFEKSLSAQEEKITALDEFATKL IQNNHYA  
MEDVATRRDALLSRNALHERAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKTATDEA  
YKDPSNLQGGKVQKHQAFEAEL SANQSRIDALEKAGQKLIDVNHYAKDEVAARMNEVISLW  
KKLLEATELGKIKLREANQQQFNRNVEDIELWLYEVEGH LASDDYGKDLTNVQNLQKKH  
ALLEADVA AHQDRIDGITIQARQFQDAGHFDAENIKKKQEALVARYEALKEPMVARKQKL  
ADSLRLQQLFRDVEDEETWIREKEPIAASTNRGKDLIGVQNLKKHQA LQAEIAGHEPRI  
KAVTQKGNAMVEEGHFAEDVKAKLHEL NQKWEALKAKASQRRQDLED SLQAQQYFADAN  
EAESWMREKEPIVGSTDYGKDEDSAEALLKKHEALMSDLSAYGSSI QALREQAQSCRQQV  
APTDDETGKELVLALYDYQEKSPREVTMKG DILTLLNSTNKDWWKVEVNDRQGFVPAAY  
VKKLDPAQSASREN LLEEQGSIALRQEQIDNQTRITKEAGSVSLRMKQVEELYHSLELG  
EKRGKMLEKSKKFMLFREANELQQWINEKEAALTSEEVGADLEQVEVLQKKFDDFQKDL  
KANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPRDETDSKTASPWKSARLMVH

TVATFNSIKELNERWRSLLQQLAEERSQLLGSAAHEVQRFHRDADETKEWIEEKNQALNTDN  
YGHDLASVQALQRKHEGFERDLAALGDKVNSLGETAERLIQSHPESAEDLQEKCTELNQA  
WSSLGKRADQRKAKLGSDHDLQRFLSDFRDLMSWINGIRGLVSSDELAKDVTGAEALLER  
HQEHRTEIDARAGTFQAFEQFGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMM  
LDQCLELQLFHRDCEQAENWMAAREAFNTEDEKGDSDLDSVEALIKKHEDFDKAINVQEEK  
IAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQMIEKRSKLGESQTLQQFSRDV  
DEIEAWISEKLQTASDESYKDPNTIQSKHQKHQAFEALHANADRIRGVIDMGNSLIERG  
ACAGSEDAVKARLAALADQWQFLVQKSAEKSQKLKEANKQQNFNTGIKDFDFWLSEVEAL  
LASEDYGKDLASVNNLLKKHQLEADISAHEDRLKDLNSQADSLMTSSAFDTSQVKDKRD  
TINGRFQKIKSMAASRRAKLNESHRLHQFFRDMDEESWIKEKKLLVGSSEDYGRDLTGVC  
NLRRKKHKLAEALAAHEPAIQGLVDTGKKLSDDNTIGKEEIQQLAQFVEHWKELKQLAA  
ARGQRLEESLEYQQFVANVEEEEAWINEKMTLVASEDYGDTLAAIQGLLKKHEAFETDFT  
VHKDRVNDVCTNGQDLIKKNNHHEENISSKMKGLNGKVSDEKAAAQRKAKLDENSAFLQ  
FNWKADVVESWIGEKENSLKTDYGRDLSSVQTLTKQETFDAGLQAFQQEGIANITALK  
DQLLAAKHVQSKAIEARHASLMKRWSQLLANSAARKKKLLEAQSHFRKVEDLFLTFAKKA  
SAFNSWFENAEEDLTPVRCNSLEEIKALREAHDAFRSSLSSAQADFNQLAELDRQIKSF  
RVASNPYTWTMEALEETWRNLQKIIKERELQKEQRRQEENDKLRQEFAQHANAFAHQW  
IQETRTYLLDGSVMVEESGTLESQLEATKRKHQETRAMRSQKKIEDLGAAMEEALILDN  
KYTEHSTVGLAQWDQLDQLGMRMQHNLEQQIQARNTTGVTEEALKEFSMMFKHFDKDKS  
GRLNHQEFKSLRSLGYDLPVVEEGEPDPEFEAILDTPDNRDGHVSLQEYMAFMISRET  
ENVKSSEEIESAFRALSSSEKPYVTKEELYQNLTREQADYCVSHMKPYVDGKGRELPTAF  
DYVEFTRSLFVN

>sp|O15020|SPTN2\_HUMAN Spectrin beta chain, non-erythrocytic 2 OS=Homo sapiens GN=SPTBN2  
PE=1 SV=3

MSSTLSPTDFDSLEIQGQYSDINNWRDLPSDWDNDSSSARLFERSRIKALADEREAVQK  
KTFTKWVNSHLARVTCRVGDLYSDLRDGRNLLRLLEVLSGEILPKPTKGRMRIHCLENVD  
KALQFLKEQKVHLENMGSHDIVDGNHRLTLGLVWTIIILRFQIQDISVETEDNKEKKSAD  
ALLWCQMKTAGYPNVNVHNTTSWRDGLAFNAIVHKHRPDLLDFESLKKCNAHYNLQNA  
FNLAEKELGLTKLLDPEDVNVDQPDEKSIITYVATYYHYFSKMKALAVEGKRIGKVLDA  
MEARLVEKYESLASELLQWIEQTIIVTLNDRQLANSLSGVQNLQSFNSYRTVEKPPKFT  
EKGNLEVLLFTIQSKLRANNQKVYTPREGRLISDINKAWERLEKAEHERELALRTELIRQ  
EKLEQLAARFDRKAAMRETWSENQRLVSQDNFGLAALAAVEAAVRKHEAETDIVAYSGR  
VQAVDAVAELAERYHDIKRIARQHNVARLWDFLRQMVAARRERLLLNLQKVFQDL  
LYLMDWMEEMKGRLSQDLGRHLAGVEDLLQLHELVEADIAVQAERVRAVSASALRFCNP  
GKEYRPCDPQLVSERVAKLEQSYEALCELAARRARLEESRRLWRFLWEVGEAEAWVREQ  
QHLLASADTGRDLTGALRLLNKHTALRGEMSGRLGPLKLTLEQGQQLVAEGHPGASQASA  
RAAELQAQWERLEALAEERAQLAQAASLYQFQADANDMEAWLVDALRLVSSPELGHDEF  
STQALARQHRALEEEIRSHRPTLDALREQAAALPPTLSRTPEVQSRVPTLERHYEELQAR  
AGERARALEAALALYTMSEAGACGLWVEEKEQWLNGLALPERLEDEVVQQRFETLEPE  
MNTLAAQITAVNDIAEQLLKANPPGKDRIVNTQEQLNHRWQQFRRLADGKKAALTSALSI  
QNYHLECTETQAWMREKTKVIESTQGLGNDLAGVLALQRKLAGTERDLEAIAARVGELTR  
EANALAAGHPAQAVAINARLREVQTGWEDLRATMRREESLGEARRLQDFLRSLDDFQAW  
LGRTQTAVASEEGPATLPEAEALLAQHAALRGEVERAQSEYSRLRALGEEVTRDQADPQC  
LFLRQRLEALGTGWEELGRMWESRQGRLAQAHGFQGFLRDARQAEGVLSSQEYVLSHTEM

PGTLQAADAAIKKLEDFMSTMDANGERIHGLLEAGRQLVSEGNIHADKIREKADSIERRH  
KKNQDAAQQFLGRLRDNREQQHFLQDCHELKLWIDEKMLTAQDVSYDEARNLHTKWQKHQ  
AFMAELAANKDWLDKVDKEGRELTLEKPELKALVSEKL RDLHRRWDELETTQAKARSLF  
DANRAELFAQSCCALESWLESQAQLHSDDYGKDLTSVNILLKKQMLEWEMAVREKEVE  
AIQAQAKALAQEDQGAGEVERTSRAVEEKFRALCQPMRERCRLQASREQHQFHRDVEDE  
ILWVTERLPMASSMEHGKDLPSVQLLMKKNQTLQKEIQGHEPRIADLRERQRALGAAAAG  
PELAELQEMWKRLGHELELRGKRELDALRAQQFYRDAEAEAWMGEQELHMMGQEKAKDE  
LSAQAEVKKHQVLEQALADYAQTIHQLAASSQDMIDHEHPESTRISIRQAQVDKLYAGLK  
ELAGERERLQEHLRLCQLRRELDLEQWIEREVVAASHELGGDYEHVTMLRDKFREFS  
RDTSTIGQERVDSANALANGLIAGGHAARATVAEWKDSLNEAWADLLELLDTRGQVLA  
YELQRFHLHGARQALARVQHKQQQLPDGTGRDLNAAEALQRRHCAYEHDIQALSPVQVQVQ  
DDGHRLQKAYAGDKAEI GRHMQAVAEAWAQLQGSSAARRQLLLDTTDKFRFFKAVRELM  
LWMDEVNLQMDAQERPRDVSSADLVIKNQGGIKAEI EARADRFSSCIDMGKELLARSHYA  
AEEISEKLSQLQARRQETAEKWQEKMDWLQLVLEVLVFGRDAGMAEAWLCSQEPLVRS  
AE LGCTVDEVESLIK RHEAFQKSAVAWEERFCAL EKLTALEEREKERKRKREEEERRKQPPA  
PEPTASVPPGDLVGGQTASDTTWDTQPRPPPSTQAPSVNGVCTDGEPSQPLLGGQRLEH  
SSFPEGPGPGSGDEANGPRGERQTRTRGPAPSAMPQSRSTESAHAATLPPRGPEPSAQEQ  
MEGMLCRKQEMEAFGKKAANRSWQNVYCVLRRGSLGFYKDAKASAGVPYHGEVPVSLAR  
AQGSVAFDYRKRKHVFKLGLQDGKEYLFQAKDEAEMSSWLRVVNAIATASSASGEPEEP  
VVPSTTRGMTRAMTPPVPSPVGAEGPVVLRSKDGREREREKRFSFFKKNK

>sp|Q9H254|SPTN4\_HUMAN Spectrin beta chain, non-erythrocytic 4 OS=Homo sapiens GN=SPTBN4  
PE=1 SV=2

MAQVPGEVDNMEGLPAPNNNPAAWESPDRGWEREQPAASTAAASLFECSRIKALADERE  
AVQKKTFTKWVNSHLARVGCHIGDLYVDLRDGFVLTRLLEVLSGEQLPRPTRGRMRIHSL  
ENVDKALQFLKEQRVHLENVGSHDIVDGNHRLTLGLVWTIILRFQIQVIKIETEDNRETR  
SAKDALLLWCQMKTAGYPEVNIQNFTTSWRDGLAFNALIHRHRPDLVDFSKLTKSNANYN  
LQRAFRTAEQHLGLARLLDPEDVNMEAPDEKSIITYVVSFYHYFSKMKALAVEGKRIGKV  
LDQVLEVGGKI IERYEELAAELLAWIHRTVGLISNQKFANSLSGVQQQLQAFTAYCTLEKP  
VKFQEKGNLEVLLFSIQSKLRACNRRLFPVREGCGIWDIDKAWGELEKAEHEREAALRAE  
LIRQEKLELLAQRFDHKVAMRESWLNENQRLVSQDNFGYELPAVEAAMKKHEAIEADIAA  
YEERVQGAELAALAAEGYYDIRRVAQAQRDSVLRQWALLTGLVGARRTRLEQNLALQKV  
FQEMVYMVDWMEEMQAQLLSRECGHLVEADDLLQKHGLEGDIAAQSERVEALNAAALR  
FSQLQGYQPCDPQVICNRVNVHVGCLAELQEQAARRRAELEASRSLWALLQELEEAE  
SWARDKERLLEAAGGGGAAGAAGAAGTAGGAHDLSSSTARLLAQHKILQGELGGRRALLQ  
QALRCGEELVAAGGAVGPGADTVHLVGLAERAASARRRWQRLEEAARRERRLQEARALH  
QFGADLDGLLDWLRDAYRLAAAGDFGHDEASSRRLARQHRALTGEVEAHRGPVSGLRRL  
LATLGASGAGPLVVALQVRVVEAEQLFAEVTEVAALRRQWLRDALAVYRMFGEVHACELW  
IGEK EQWLLSMRVPSLDDEVVQHRFESLDQEMNSLMGRVLDVNHQTVQELVEGGHPSSDE  
VRS CQDHLNSRWNRIVELVEQRKEEMSAVLLVENHVLEVAEVRQVREKRRAVESAPRAG  
GALQWRSLGLEAALQALEPRQAALLLEEAALLAERFPAQAARLHQGAEEGAEWGALASAAQAC  
GEAVAAAGRLQRFLHDLDAFLDWLVRAQEAAGGSEGPLPNSLEEADALLARHAALKEEVD  
QREEDYARIVAASEALLAADGAELGPGLALDEWLPHLELGWHKLLGLWEARREALVQAHI  
YQLFLRDLRQALVVLNRNQEMALSGAELPGTVESVEEALKQHRDFTTMELSQQKMQVAVQ  
AAEGLLRQGNITYGEQAQEA VTRLLEKNQENQLRAQQWMQKLHDQLELQHFLRDCHELDGW

IHEKMLMARDGTREDNHKLHKRWLRHQAFMAELAQNKEWLEKIEREGQQLMQEKPELAAS  
VRKKLGEIRQCWAELESTTQAKARQLFEASKADQLVQSFAELDKKLLHMESQLQDVPDGG  
DLATVNSQLKKLQSMESQVEEWYREVGEQQAATAALPLEPASKELVGERQNAVGERLVRL  
LEPLQERRRLLLASKELHQVAHDLDELAWVQERLPLAMQTERGNGLQAVQQHIKKNQGL  
RREIQAHGPRLEEVLERAGALASLSPEAEAVRRGLEQLQSAWAGLREAAERRQQVLDAA  
FQVEQYYFDVAEVEAWLGEQELLMSEDKGKDEQSTLQLLKKHLQLEQGVENYEESIAQL  
SRQCRALLEMGHPDSEQISRRQSQVDRLYVALKELGEERRVALEQQYWLYQLSRQVSELE  
HWIAEKEVVAGSPELGQDFEHVSVLQEKFSEFASETGMAGRERLAAVNQMVDELIECGHT  
AAATMAEWDGLNEAWAELELMGTRAQLLAASRELHKFFSDARELQGQIEEKRRRLPRL  
TTPPEPRPSASSMQRTLRAFEHDLQLLVSQVRQLQEGAAQLRTVYAGEHAEAIASREQEV  
LQGWKELLSACEDARLHVSSTADALRFHSQVRDLLSWMDGIASQIGAADKPRDVSSVEVL  
MNYHQGLKTELEARVPELTTCQELGRSLLLKNSAMADEIQAQLDKLGRKEEVSEKWDRL  
WEWLQQMLEVHQFAQEAVVADAWLTAQEPLLQSRELGSSVDEVEQLIRRHEAFRKAANA  
EERFSSLRRLTTIEKIKAEQSKQPPTPLLGRKFFGDPTLAAKAAPLLRPGGYERGLEPL  
ARRASDTLSAEVTRVGYVRQELKPERLQPRIDRLPEIPGRVEPAALPAAPEDAAETPAT  
PAAAEQVRPRPERQESADRAEELPRRRRPERQESVDQSEEAARRRRRPERQESAEHEAAHS  
LTLGRYEQMERRRERRRRLERQESSEQEMPIRGDLVKGKATLADIVEQLQEKEAGPLP  
AGPSLPQPRELPPGRLPNGLELPERTPRPDRPRARDRPKPRRRRPRREGGEGGSSRRSRS  
APAQGGAPAPPPPTHTVQHEGFLLRKRELDANRKSSNRSWVSLYCVLSKGELGFYKDS  
KGPASGSTHGGPELLSLHKATSEVASDYKKKKHVFKLQTQDGSEFLQAKDEEEMNGWLE  
AVASSVAEHAELIARWGQTLPTTSSTDEGNPKREGGDRRASGRRK

>sp|Q8NFR3|SPTSB\_HUMAN Serine palmitoyltransferase small subunit B OS=Homo sapiens  
GN=SPTSSB PE=1 SV=1

MDLRRVKEYFSWLYYQYQIISCAVLEPWERSMFNTILLTIIAMVVYTAYVFIPHIHRLA  
WEFFSKICGYHSTISN

>sp|Q5MJ10|SPXN2\_HUMAN Sperm protein associated with the nucleus on the X chromosome N2  
OS=Homo sapiens GN=SPANX2 PE=2 SV=1

MEQPTSSTNGEKRKSPCESNNKNDQMPEAPNRVLAPKQSLQKTKTIEYLTIIIVYYRKH  
TKINSNQLEKDQSRENSINPVQEEDEGLDSAEGSSQEDEDLDSSEGSSQEDEDLDSSEG  
SSQEDEDLDSSEGSSQEDEDLDSSEGSSQEDEDLDPPEGSSQEDEDLDSSEGSSQEGGED

>sp|Q9Y6N5|SQRD\_HUMAN Sulfide:quinone oxidoreductase, mitochondrial OS=Homo sapiens  
GN=SQRD PE=1 SV=1

MVPLVAVVSGPRAQLFACLLRLGTQQVGPLQLHTGASHAARNHYEVLVLGGGSGGITMAA  
RMKRKVGAEVNAIVEPSEHFYQPIWTLVGAGAKQLSSSGRPTASVIPSGVEWIKARVTE  
LNPDKNCIHTDDDEKISYRYLIIALGIQLDYEKIKGLPEGFAHPKIGSNYSVKTVEKTKW  
ALQDFKEGNAIFTFNPVVKAGAPQKIMYLSEAYFRKTGKRKANIIFNTSLGAIFGVK  
KYADALQEIIQERNLTVNYKKNLIEVRADKQEAUFENLDKPGETQVISYEMLHVTPPMSP  
PDVLKTSVPVADAAGWVDVDKETLQHRRYPNVFGIGDCTNLPTSKTAAAVAAQSGILDRTI  
SVIMKNQTPTKKYDGYTSCPLVTGYNRVILAEFDYKAEPLETFPFDQSKERLSMYLMKAD  
LMPFLYWNMMLRGYWGGPAFLRKLFLHGM

>sp|Q7Z2R9|SSAS1\_HUMAN Putative uncharacterized protein SSBP3-AS1 OS=Homo sapiens  
GN=SSBP3-AS1 PE=5 SV=1

MWGFLVLKARWLTPVRTLATEAGQKPSLRGLLDVGNIQHRAARAGLTRGVIRVSPQER  
SQQNQSAPKGPTPSTRPKPRTLGPQAHSLALQSVDLLFRP

>sp|Q9BWW4|SSBP3\_HUMAN Single-stranded DNA-binding protein 3 OS=Homo sapiens GN=SSBP3  
PE=1 SV=1

MFAGKGSAPVPSDGQAREKLALVYVEYLLHVGAQKSAQTFLEIRWEKNITLGEPPGFLH  
SWWCVFWDLYCAAPERDTCESSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGF  
FQGPPGSQPSHAQPPPHNPSSMMGPHSQPFMSPRYAGGPRPPIRMGNQPPGGVPGTQPL  
LPNSMDPTRQQGHPNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPNSLGPAMPGINMG  
PGAGRWPNPNSANSIPYSSSSPGTYVGPPGGGGPPGTPIMPSPADSTNSSDNIYTMINP  
VPPGGSRSNFMGPGSDGPMGGMGMEPHHMNGSLGSGDIDGLPKNSPNNISGISNPPGT  
PRDDGELGGNFLHSFQNDNYSPTSMTSV

>sp|Q9UJ98|STAG3\_HUMAN Cohesin subunit SA-3 OS=Homo sapiens GN=STAG3 PE=1 SV=2

MSSPLQRAVGDTKRALSASSSSASLPFDDRDSNHTSENGDSLLADEDTDFEDSLNRNV  
KKRAAKRPPKTTPAKHKKGSRVVHRHSRKQSEPPANDLFNAVKAASDMQSLVDEWLD  
SYKQDQDAGFLELVNFFIQSCGCKGIVTPEMFKKMSNSEIIQHLTEQFNEDSGDYPLIAP  
GPSWKKFQGSFCEFVRTLVCCQYSLLYDGFPMDDLISLLTGLSDSQVRAFRHTSTLAAM  
KLMTSLVKVALQSVHQDNNQRQYEAERNKGPGQRAPERLESLEKRKELQEHQEEIEGM  
MNALFRGVFVHRYRDVLPETRAICIEEIGCWMQSYSTSFLTDSYLKYIGWTLHDKHREVR  
LKCVKALKGLYGNRDLTTRLELFTSRFKDRMVMVMDREYDVAEAVRLLILILKNMEGV  
LTDADCEVYPVYASHRGLASAAEFYWKLFYPECEIRMMGGREQRQSPGAQRTFFQL  
LLSFFVESELHDHAAVLVDSLWDCAGARLKDWEGLTSLLEKQNLGDVQESTLIEILVS  
SARQASEGHPPVGRVTGRKGLTSKERKTQADDRVKLTEHLIPLLPQLLAKFSADAQKVT  
LLQLLSCFDLHIYCTGRLEKHELFLLQQLQEVVVKHAEPVLEAGAHALYLLCNPEFTFF  
SRADFARSQVLVDLLTDRFQQELEELLQSSFLDEDEVYNLAATLKRLSAFYNTDLTRWEL  
YEPCCQLLQKAVDTGEVPHQVILPALTLVYFSLWTLTHISKSDASQKQLSSLRDRMVA  
CELQCSCLSDVDTEIQEQAFVLLSDLLLIFSPQMIVGGRDFLRPLVFFPEATLQSELASF  
LMDHVFIQPGDLGSGDSQEDHLQIERLHQRRRLLAGFCKLLLYGVLEMDAASDVFKHYNK  
FYNDYGDIIKETLTRARQIDRSHCSRILLLSLKQLYTELLQEHGPGQLNELPAFIEMRDL  
ARRFALSFGPQQLQNRDLVVMLHKEGIQFSLSELPPAGSSNQPPNLAFLLELSEFSPRLF  
HQDKQLLSYLEKCLQHVSQAPGHPWGPVTTYCHSLSPVENTAETSPQVLPSSKRRRVEG  
PAKPNREDVSSSQEESLQLNSIPPTPTLTSTAVKSRQPLWGLKEMEEEDGSELDFAQQQP  
VAGTERSRLGPQYFQTPHNPSGPGGLGNQLMRLSLMEDEEEEELEIQDESNEERQDTDMQ  
ASSYSTSERGLDLLDSTELDIEDF

>sp|Q92502|STAR8\_HUMAN StAR-related lipid transfer protein 8 OS=Homo sapiens GN=STAR8  
PE=1 SV=2

MTLNNCASMKLEVHFQSKQNEDESEEEQCTISSHWAFQQESKCWSPMGSSDLLAPSPGL  
PATSSCESVLTELSATSLPVITVSLPPEPADLPLGRAPSSSDRPLLPTQGGQEGPQDKA  
KKRHRNRSFLKHLESRRKEKSGSQAEPKHSPATSEKVSASSFRSCRGLSAGFYRAK  
NWAATSAGGSGANTRKAWEAWPVASFRHPQWTHRGDCLVHVPGDHKGPTFPRSLIESLC  
PEDGHRADWQPGRRWGCEGRRGSCGSTGSHASTYDNLPELYPAEPMVGAEAEDEDEE  
SGGSYAHLDLILQHVWGLQQRVELWSRAMYPDLGPGDEEEEEEATSSVEIATVEVKCAEA  
LSQMEVPAHGESPAAQAEVQPAVLAPAQAPAEAPVAQEEAEAPAPAPAPAQDSEQE  
AHSNGEPTFASSLSVEEGHSISDTVASSSELDSSGNSMNEAEAAGPLAGLQASMPRERRD  
SGVGASLTRPCRKLRRHSFQNSHRPSLNSESLINRQFAGQINLLHKGSLRLTAFMEKY  
TVPHKQGWVWSPKFMRRNKTPDYRGQHVFGVPPLIHVQRTGQPLPQSIQQAMRYLRSQC  
LDQVGIFRKSGVKSRIQNLQMNETSPDNVCYEGQSAYDVADLLKQYFRDLPEPIFTSKL

TTTFLQIYQLPKDQWLAAAQAATLLLPDENREVLQTLLYFLSDIASAEENQMTAGNLAV  
CLAPSIFHLNVSKKDSPPRIKSKRSLIGRPGPRDLSDNMAATQGLSHMISDCKKLFQVP  
QDMVLQLCSSYSAAELSPGPALAE LRQAAGVSLSLYMEENIQDLLRDAERFKGWMS  
VPGPQHTELACRKAPDGHPLRLWKASTEVAAPPAVVLHRVLRERALWDEDLLRAQVLEAL  
MPGVELYHYVTDSMAPHPCRDFVVLRMWRS DLPRGGCLLSQSLDPEQVPESGVRALML  
TSQYLMEPCGLGRSRLTHICRADLRGRSPDWYNKVFGHLCAMEVAKIRDSFPTLQAAGPE  
TKL

>sp|P49675|STAR\_HUMAN Steroidogenic acute regulatory protein, mitochondrial OS=Homo sapiens GN=STAR PE=1 SV=2

MLLATFKLCAGSSYHRMNMKGLRQQAVMAISQELNRRALGGPTPSTWINQVRRRSSLLG  
SRLEETLYSDQELAYLQQGEEAMQKALGILSNQEGWKESQQDNGDKVMSKVVPDVGKVF  
RLEVVDQPMERLYEELVERMEAMGEWNPVKEIKVLQKIGKDTFITHELAAEAAGNLVG  
PRDFVSVRCARRGSTCVLAGMATDFGNMPEQKGVIRAEHGPTCMVLHPLAGSPSKTKLT  
WLLSIDLKGWLPKSIINQVLSQTQVDFANHLRKRLSEHPASEARC

>sp|Q687X5|STEAP4\_HUMAN Metalloreductase STEAP4 OS=Homo sapiens GN=STEAP4 PE=1 SV=1

MEKTCIDALPLTMNSSEKQETVCIFGTGDFGRSLGLKMLQCGYSVVFGRNPQKTTLLPS  
GAEVL SYSEA AKKSGIIIIA IHREHYDFLTEV LN GKILVDISNNLKINQYPESNAEY  
LAHLVPGAHVVKAFNTISAWALQSGALDASRQVFVCGNDSKAKQRVMDIVRNGLTPMDQ  
GSLMAAKEIEKYPLQLFPMWRFPFYL SAVLCVFLFFYCVIRDVIYPYVEKKDNTFRMAI  
SIPNRIFPITALTLALVYLPGVIAAILQLYRGTKYRRFPDWLDHWMLCRKQLGLVALGF  
AFLHVLTYLVIPIRYVVRWRLGNLTVTQAILKKENPFSTSSAWLSDSYVALGILGFFLFV  
LLGITS LPSVSNVNWREFRFVQSKLGYLTLILCTAHTLVYGGKRFLSPSNLRWYLPAAAY  
VLGLIIPCTVLVIK FVLIMPCVDNTLTRIRQGWERN SKH

>sp|Q9Y6E0|STK24\_HUMAN Serine/threonine-protein kinase 24 OS=Homo sapiens GN=STK24 PE=1 SV=1

MDSRAQLWGLALNKRRATLPHPGGSTNLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQK  
VVAIKIIDLEEADEIEDIQQEITVLSQCDSPIYVTKYYGSYLKDTKLWIIMEYLGGSAL  
DLLEPGPLDETQIATILREILKGLDYLHSEKKIHRDIKAANVLLSEHGEVKLADFGVAGQ  
LTDTQIKRNTFVGTFFWMAPEVIKQ SAYDSKADIWSLGITAIELARGEPPHSELHPMKVL  
FLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFILRNAKTSYLT E I  
DRYKRWKAEQSHDDSSSESDAETDGQASGSDSGDWIFTIREKDPKNLENGALQPSDL D  
RNKMKDIPKRPFSQLSTIISPLFAELKEKSQACGGNLGSI EELRGAIYLAEEACPGISD  
TMVAQLVQRLQRYSLSGGTSSH

>sp|Q9BYT3|STK33\_HUMAN Serine/threonine-protein kinase 33 OS=Homo sapiens GN=STK33 PE=1 SV=1

MADSGLDKKSTKCPDCSSASQKDVLCVCSSKTRVPPVLVEMSQTSSIGSAESLISLERK  
KEKNINRDITSRKDLPSRTSNVERKASQQQWGRGNFTEGKVPHIRIENGAAIEE IYTFGR  
ILGKGSFGIVIEATDKETETKWA IKV NKEKAGSSAVKLLEREVNILKSVKHEHI IHLEQ  
VFETPKKMYLVMELCEDGELKEILDRKGHFSENETRWIIQSLASAIAYLHNNDIVHRDLK  
LENIMVKSSLIDDNNEINLNIKVTDFGLAVKKQSRSEAMLQATCGTPIYMAPEVISAHDY  
SQQCDIWSIGVVMYMLLRGEPPFLASSEKLFELIRKGELHFENAVWNSISDCAKSVLKQ  
LMKVDPAHRITAKELLDNQWL TGNKLSVRPTNVLEMMKEWKNNPESVEENTTEENKPS  
TEEKLKSYQPWGNVPDANYTSDEEEKQSTAYEKQFPATSKDNFDMCSSSFTSSKLLPAE  
IKGEMEKTPTPSQGTATKYPKSGALSRTKKKL

>sp|Q9UJZ1|STML2\_HUMAN Stomatin-like protein 2, mitochondrial OS=Homo sapiens GN=STOML2  
PE=1 SV=1

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFPVQQEAWVVERMGRFHRILE  
PGLNILIPVLDRIRYVQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVE  
DPEYAVTQLAQTMRSELGKLSLDKVFRRERESLNASIVDAINQAADCWGIRCLRYEIKDI  
HVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQAQILASEAEKAEQINQA  
AGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSFAFSKLAKDSNTILLPS  
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

>sp|Q9H169|STMN4\_HUMAN Stathmin-4 OS=Homo sapiens GN=STMN4 PE=2 SV=1

MTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYEADTVDLNWCVISDMEVIELNKCTS  
GQSFEVILKPPSFDGVPEFNASLPRRRDPSLEEIQKKLEAAEERRKYQEAELLKHLAEKR  
EHEREVIQKAIEENNFIKMAKEKLAQKMESNKENREAHLAAMLERLQEKDKHAEVRKN  
KELKEEASR

>sp|Q9Y6Q2|STON1\_HUMAN Stonin-1 OS=Homo sapiens GN=STON1 PE=1 SV=2

MCSTNPGKWVTFDDDAVQSSQSKNFPLENQGVCRPNGLKLNLPGLREFPSGSSSTSST  
PLSSPIVDIFYFSPGPPSNSPLSTPTKDFPGFPGIPKAGTHVLYPIPESSSDSPLAISGGE  
SSLLPTRPTCLSHALLPSDHSCHTPTPKVGLPDEVNPQQAESLGFQSDDLQFQYFREDC  
AFSSPFWKDEGSDSHFTLDPGSKKMFSSRNKEMPIDQKSLNKCSLNYICEKLEHLQSAE  
NQDSLRLSMHCLCAEENASSFVPHTLFRSQPKSGWSFMLRIPEKKNMSSRWGPFLK  
VLPGGILQMYEQLGKPFKEIQLDPYCRLSEPKVENFSVAGKIHTVKIEHVSYTEKRKY  
HSKTEVVHEPDIEQMLKLGSTSYHDFLDFLTVEEELMKLPAVSKPKKNYEEQEISLEIV  
DNFWGKVTKEGKFVESAVITQIYCLCFVNGNLECFLLNDLELPKRDESYEYKDEKKGI  
DILDYHFHKCVNQEFEQSRIKIFVPLDACRFELMRFKTLYNGDNLPSLKSVMVVVQAY  
VELQAFVNMAQLARSSYAGSLRSCDNIRIHFPVPSQWIKALWTMNLQRQKSLKAKMNRR  
ACLSLQELESEPIQVTVGSAKYESAYQAVVWKIDRLPDKNSSLDHPHCLSYKLELGSD  
QEIPSDWYPFATVQFSVPDTCASRTEVRSLGVESDVQPQKHVQQRACYNIQVEIEKKWIK  
IDGEDPDKIGDCITQ

>sp|Q9P2F5|STOX2\_HUMAN Storkhead-box protein 2 OS=Homo sapiens GN=STOX2 PE=2 SV=2

MKKTRSTTLRRAPSSDFSDRASDRMRSSEKDYRLHKRFPAAAFAPQASRGYMTSGDVSP  
ISMSPISQSQFIPLGEILCLAISAMNSARKPVTQEALMEHLTTCFPGVPTPSQEILRHTL  
NTLVRERKIYPTPDGYFIVTPQTYFITPSLIRTNSKWYHLDERIPDRSQCTSPQPGTITP  
SASGCVRERTLPRNHCDSCHCCREDVHSTHAPTLQRKSAKDCKDPYCPPSLCQVPPTKS  
KSTVNFYSYKTETLSKPKDSEKQSKKFGKLKFLRFSFKDKTKQLANFSAQFPPEEWPLRDE  
DTPATIPREVEMEIIRRNPDLTVENVMRHTALMKLEEEKAQRSKAGSSAHHSGRSKKS  
RTHRSHGKSRSHSKTRVSKGDPDGSGLDIPAEREYDFCDPLTRVPREGCFIIEHKGDN  
FIMHSNTNVLESHFPMTPEDVSGELAKRRTEMPFPEPSRGSSSHSKVHRSHSHTQDRRSR  
NERSNKAERSRSMDSKGLGASSLGTPEDLAEGCSQDDQTPSQSYIDDSTLRPAQTVS  
LQRAHISSTSYKEVCIPEIVSGSKEPSSACSLLEPGKPPESLPSYGELNSCPTKTATDDY  
FQCNTSSETVLTAPSPLGKNKEDHDTLTLAEGVKKLSPSDRQVPHSSREPVGHKEESPKG  
PGGGPAASGGVAEGIANGLVQHHGAEPSSLDKRKEIFSKDTLTKPLHSTLSVNSYHKSS  
LSLLKSHPKTPADTLPGRCEKLEPSLGTSAQAMPASQRQQESGGNQEASFYYNVSDDD  
DSEEGANKNTEEEKNREDVGTMQWLLEREKERDLQRKFEKNLTLLAPKETDSSSNQRATH  
SARLDSMDSSSITVDSGFNSPRTRESLASNTSSIVESNRRQNPAHGGAGPAFNFRA  
SAEPTNEAEKLQKPSNCLQASVTSV



>sp|Q9H6E5|STPAP\_HUMAN Speckle targeted PIP5K1A-regulated poly(A) polymerase OS=Homo sapiens GN=TUT1 PE=1 SV=2

MAAVDSDEVSLPRGGFRCLCHVTANRPSLDAHLGGRKHRHLVELRAARKAQGLRSVFV  
SGFPRDVDSAQLSEYFLAFGPVASVVMDDKDKGVFAIVEMGDVGAREAVLSQSQHSLGGHR  
LRVRPREQKEFQSPASKSPKGAAPDSHQLAKALAEADVGAQMIKLVGLRELSEAERQLR  
SLVVALMQEVFTEFFPGCVVHPFGSSINSFDVHGCDDLDFLDLGDLEEPQPVPKAPESPS  
LDSALASPLDPQALACTPASPPDSQPPASPQDSEALDFETPSSSLAPQTPDSALASETLA  
SPQSLPPASPLLEDREEDLGKASELAETPKEEKAEGAAMLELVGSILRGCVPGVYRVQT  
VPSARRPVVKFCHRPGLHGDVSLSNRLALHNSRFLSLCSELDGRVRPLVYTLRCWAQGR  
GLSGSGPLLSNYALTLLVIYFLQTRDPPVLPVTSQLTQKAGEGEQVEVDGWDCSFPRDAS  
RLEPSINVEPLSSLLAQFFSCVSCWDLRGSLSLREGQALPVAGGLPSNLWEGLRLGPLN  
LQDPFDLSHNVAANVTSRVAGRLQNCRAAANYCRSLQYQRRSSRGRDWGLLPLLQPSSP  
SSLLSATPIPLPLAPFTQLTAALVQVFREALGCHIEQATKRTRSEGGGTGESSQGGTSKR  
LKVDGQKNCCEEGKEEQGCCAGDGGEDRVEEMVIEVGEMVQDWAMQSPGQPGDLPLTTGK  
HGAPGEEGQPSHAALAERGPKGHEAAQEQSGEAGKGASLPSSASWRCALWHRVWQGRRR  
ARRRLQQQTKGAGGGAGTRAGWLATEAQVTQELKGLSGGEERPETEPLLSFVASVSPAD  
RMLTVTPLQDPQGLFPDLHHFLQVFLPQAIRHLK

>sp|Q9C0K7|STRAB\_HUMAN STE20-related kinase adapter protein beta OS=Homo sapiens GN=STRADB PE=1 SV=1

MSLLDCFCCTSRTQVESLRPEKQSETS IHQYLVDEPTLSWSRPSTRASEVLCSTNVSHYEL  
QVEIGRGFDNLTSVHLARHTPTGTLVTIKITNLENCNEERLKALQKAVILSHFFRHPNIT  
TYWTVFTVGSWLWVISPFMAYGSASQLLRTYFPEGMSSETLIRNIFGAVRGLNYLHQNGC  
IHRSIKASHILISGDGLVTL SGLSHLHSLVKHGQRHRAVYDFPQFSTSVQPWLSPELLRQ  
DLHGYNVKSDIYSVGITACELASGQVPFQDMHRTQMLLQKLKGPPYSPLDISIFPQSES  
RKNSQSGVDSDGIGESVLVSSGTHTVNSDRLHTPSSKTFSPAFFSLVQLCLQQDPEKRPSA  
SSLLSHVFFKQMKESQDSILSLLPPAYNKPSISLPPVLPWTEPECDFPDEKDSYWEF

>sp|Q7RTN6|STRAA\_HUMAN STE20-related kinase adapter protein alpha OS=Homo sapiens GN=STRADA PE=1 SV=1

MSFLVSKPERIRRWSEKFIVEGLRDLELFGEQPPGDTRRKTNDASSEIASFSKQEVMS  
SFLPEGGCYELLTVIGKGFEDLMTVNLARYKPTGEYVTVRRINLEACSNEMVTFLQGELH  
VSKLFNHPNIVPYRATFIADNELWVVTSMAYGSAKDLICTHFMGMNELAIAYILQGV  
KALDYIHHMGYVHRSVKASHILISVDGKVYLSGLRSNLSMISHGQRQVRVHDFPKYSVKV  
LPWLSPEVLQQNLQGYDAKSDIYSVGITACELANGHVPFKDPATQMLLEKLN GTVPCLL  
DTSTIPAEELTMSPSRSVANSGLSDSLTSTPRPSNGDSPSHYHRTFSPHFHHFVEQCL  
QRNPDARPSASTLLNHSFFKQIKRRASEALPELLRPVTPITNFEQSQSDHSGIFGLVTN  
LEELEVD DWEF

>sp|Q9ULQ0|STRP2\_HUMAN Striatin-interacting protein 2 OS=Homo sapiens GN=STRIP2 PE=1 SV=2

MEDPAAPGTGGPPANGNGGGGKQQAAPKGREAFRSQRRESEGSVDCTLEFEYGDADG  
HAAELSELYSYTENLEFTNNRRCFEEDFKTQVQGKEWLEEDAQKAYIMGLLDRLLEVVS  
RERRLKVARAVLYLAQGTGECDEVDVLHWSRYNCFLLYQMGTFTSTFLELLHMEIDNSQ  
ACSSALRKPAVSIADSTELRVLLSVMYLMVENIRLERETDPCGWRTARETFRTELSFSMH  
NEEPFALLLSMVTKFCGLAPHFPIKKVLLLLWKVVMFTLGGFEHLQTLKVQKRAELGL  
PPLAEDSIQVVKSMRAASPPSYTDLGESQLAPPPSKLRGRRGSRRLTKQDSLDIYNE  
RDLFKTEEPATEEEEEESAGDGERTLDGELDLLEQDPLVPPPPSQAPLSAERVAFPKGLPW

APKVRQKDIEHFLEMSRNKFIGFTLGQDSDLVGLPRPIHESVKTQHKYISIAADVQIK  
NEEELEKCPMSLGEEVVPETPCEILYQGMLYSLPQYMIALLKILLAAPTSKAKTDSINI  
LADVLPEEMPITVLQSMKLGIDVNRHKEIIVKSISTLLLLLKHFKLNHIYQFEYVSQHL  
VFANCIPLILKFFNQNILSYITAKNSISVLDPCTIQDLPELTSTESLEAGDNSQFCWRN  
LFSCINLLRLLNKLTKWKHSRTMMLVVFKSAPILKRALKVKQAMLQYVLKLLKLQTKYL  
GRQWRKSNMKTMSAIYQKVRHRMNDWDWAYGNDIDARPWDFQAEECTLRANIEAFNSRRYD  
RPQDSEFSPVDNCLQSVLGQRDLDPEDFHYSYELWLEREVFSQPICWEELLQNH

>sp|075558|STX11\_HUMAN Syntaxin-11 OS=Homo sapiens GN=STX11 PE=1 SV=1

MKDRLAELLDLSKQYDQQFPDGDDEFSPHEDIVFETDHILESLYRDIRDIQDENQLLVA  
DVKRLGKQNRFLTSMRRLSSIKRDTNSIAKAIKARGEVIHCKLRAMKELSEAAEAQHGP  
HSAVARISRAQYNALTLTFQRAMHDYNQAEMKQRDNCKIRIQRQLEIMGKEVSGDQIEDM  
FEQGWDFVSENLLADVKGARAALNEIESRHRELLRLESIRIDVHELFLQMAVLVEKQAD  
TLNVIELNVQKTVDYTGAKAQVRKAVQYEEKNPCRTLCCFCCPCLK

>sp|P61266|STX1B\_HUMAN Syntaxin-1B OS=Homo sapiens GN=STX1B PE=1 SV=1

MKDRTQELRSAKSDDEEEVHVDRDHFMDFFEQVEEIRGCIEKLSERVEDVQVKQHS  
LAAPNPDEKTKQELEDLTADIKKTANKVRSKLKAIQESIEQEEGLNRSSADLRIRKTQHS  
TLRKFVEVMTEYNATQSKYRDRCKDRIQRQLEITGRTTNEELEDMLSEGLAIFTDDI  
KMDSQMTKQALNEIETRHEIIKLETSIRELHDMFVDMAMLVESQGEMIDRIEYNVEHSV  
DYVERAVSDTKKAVKYQSKARRKKIMIIICCVVLGVVLASSIGGTLGL

>sp|043752|STX6\_HUMAN Syntaxin-6 OS=Homo sapiens GN=STX6 PE=1 SV=1

MSMEDPFFVVKGEVQKAVNTAQGLFQRWTELLQDPSTATREEIDWTTNELRNNLSIEWD  
LEDLDETISIVEANPRKFNLDATELSIRKAFITSTRQVVRDMKDMSTSSVQALAEKRN  
QALLGDSGSQNWSTGTTDKYGRDLRELQRANSHFIEEQQAQQQLIVEQQDEQLELVSGSI  
GVLKNMSQRIGGELEEQAVMLEDFSHELESTQSRLDNVMKKLAKVSHMTSDRRQWCAIAI  
LFAVLLVVLILFLVL

>sp|Q8NFX7|STXB6\_HUMAN Syntaxin-binding protein 6 OS=Homo sapiens GN=STXBP6 PE=1 SV=2

MSAKSAISKEIFAPLDERMLGAVQVKKRRTKKKIPFLATGGQGEYLTICLSVTNKKPTQA  
SITKVKQFEGSTSFVRSQWMLEQLRQVNGIDPNGDSEFDLLFENAFDQWVASTASEKC  
TFFQILHHTCQRYLTDRKPEFINCQSKIMGGNSILHSAADSVTSQVQKASQALNERGERL  
GRAEEKTEDLKNSAQQAETAHKLAMKHKC

>sp|Q6J9G0|STYK1\_HUMAN Tyrosine-protein kinase STYK1 OS=Homo sapiens GN=STYK1 PE=1 SV=4

MGMTRMLLECSLSDKLCVIEKQYEVIIIVPTLLVTIFLILLGVILWLFIREQRTQQQRSG  
PQGIAPVPPPRDLSWEAGHGGNVALPLKETSVENFLGATTPALAKLQVPREQLSEVLEQI  
CSGSCGPFRANMNTGDPSKPKSVILKALKEPAGLHEVQDFLGRIQFHQYLGKHKNLVQL  
EGCCTEKLPLYMVEDVAQGDLLSFLWTCRRDVTMDGLLYDLTEKQVYHIGKQVLLALE  
FLQEKHLFHGDVAARNILMQSDLTAKLCGLGLAYEVYTRGAISSTQTIPKWLAPERLLL  
RPASIRADVVSFGILLYEMVTLGAPPYEPVPTSIHLQRRKIMKRPSSCTHTMYSIMK  
SCWRWREADRPSPRELRLRLAAIKTADDEAVLQVPELVPELYAAVAGIRVESLFYNYS  
ML

>sp|Q9HAC7|SUCHY\_HUMAN Succinate--hydroxymethylglutarate CoA-transferase OS=Homo sapiens  
GN=SUGCT PE=1 SV=2

MPSETHAMLATLARVAALRRTCLFSGRGGGRGLWTGRPQSDMNNIKPLEGVKILDLTRVL  
AGPFATMNLGDLGAEVIKVERPGAGDDTRTWGPPFVGTESTYYLSVNRNKKSIIVNIKDP  
KGVKIIKELAAVCDVFVENYVPGKLSAMGLGYEDIDEIAPHIIYCSITGYGQTGPISQRA

GYDAVASAVSGLMHITGPENGDPVRPGVAMTDLATGLYAYGAIMAGLIQKYKTGKGLFID  
CNLLSSQVACLSHIAANYLIGQKEAKRWGTAHGSIVPYQAFKTKDGYIVVGAGNNQQFAT  
VCKILDPELIDNSKYKTNHLRVHNRKELIKILSERFEEELTSKWLYLFEGSGVPYGPIN  
NMKNVFAEPQVLHNLGLVMEHEPTVGKISVPGPAVRYSKFKMSEARPPPLLQHTTHILK  
EVLRYDDRAIGELLSAGVVDQHETH

>sp|Q9UBS9|SUCO\_HUMAN SUN domain-containing ossification factor OS=Homo sapiens GN=SUCO  
PE=1 SV=1

MKKHRRALALVSCLFLCSLVWLPSWRVCKESSASASSYYSQDDNCALENEVDVFQKKD  
EREGPINAESLGKSGSNLPISPKEHKLKDDSIDVDQNTESKKLSPPVETLPTVDLHEES  
SNAVVDSETVENISSSTSEITPISKLEIEKSGTIPIAKPSETEQSETDCDVGEALDAS  
APIEQSPFVSPDLSLVGQHIEVNSSSHGKGKITKSEFESKVSASEQGGGDPKSALNASDN  
LKNESSDYTKPGDIDPTSVASPKDPEDIPTFDEWKKKVMEVEKEKSQSMHASSNGGSHAT  
KKVQKNRNNYASVECGAKILAAPEAKSTSAILIENMDLYMLNPCSTKIWFVIELCEPIQ  
VKQLDIANYELFSSTPKDFLVSISDRYPTNKWIKLGTTFHGRDERNVQSFPLDEQMYAKYV  
KMFIKYIKVELLSHFGESEHFCPLSLIRVFGTSMVEEYEEIADSQYHSERQELFDEDYDYP  
LDYNTGEDKSSKNLLGSATNAILNMVNIAANILGAKTEDLTEGNKSISENATATAAPKMP  
ESTPVSTPVPSPEYVTTEVHTHMEPSTPDTPKESPIVQLVQEEEEESPSTVTLLGSGE  
QEDESSPWFESETQIFCSELTICCISSFSEYIYKWCVRVALYRQRSRTALSKGKDYL  
LAQPPLLLPAESVDVSVLQPLSGELENINIEREAETTVLGDLSSTMHQDDLNVHTVDAVE  
LEPSHSQTLQSLLLDITPEINPLPKIEVSESVEYEAGHIPSPVIPQESSVEIDNETEQK  
SESFSSIEKPSITYETKNVNEMLDNI IKEDVNSMQIFTKLSETIVPPINTATVPDNEDGE  
AKMNIADTAKQTLISVVDSSSLPEVKEEEQSPEDALLRGLQRTATDFYAEQNSTDLGYA  
NGNLVHGSNQKESVMRLNNRIKALEVNMSLSGRYLEELSQRYSRQMEEMQKAFNKTIVK  
LQNTSRIAEEDQQRQTEAIQLLQAQLTNMTQLVSNLSATVAELKREVSQRQSYLVISLVL  
CVVLGLMLCMQRCRNTSQFDGDIYISKLPKSNQYPSPKRCFSSYDDMNLKRRTSFPLMRK  
SLQLTGKEVPNDLYIVEPLKFSPEKKKKRCKYKIEKIEIKPEEPLHPIANGDIKGRKP  
FTNQRFDSNMGEVYHSSYKGPPEGSSETSSQSEESYFCGISACTSLCNGQSQKTKTEKR  
ALKRRRSKVQDQGLIKTLIQTKSGSLPSLHDI IKGNKEITVGTFGVTAVSGHI

>sp|Q8IX01|SUGP2\_HUMAN SURP and G-patch domain-containing protein 2 OS=Homo sapiens  
GN=SUGP2 PE=1 SV=2

MAARRITQETFDVAVLQEKAKRYHMDASGEAVSETLQFKAQDLLRAVPRSRAEMYDDVHSD  
GRYSLSGSVAHSRDAGREGLRSDVFPGPSFRSSNPISDDSYFRKECGRDLEFSHSDSRD  
QVIGHRKLGHFRSQDWKFALRGSWEQDFGHPVSQESSWSQEYSFGPSAVLGDGSSRLIE  
KECLEKESRDYDVDHPGEADSVLRGGSQVQARGRALNIVDQEGSLLGKGETQGLLTAKGG  
VGKLVTLRNVSTKKIPTVNRITPKTQGTNQIQKNTSPDVTLGTNPGTEDIQFPIQKIPL  
GLDLKNLRLPRRKMSFDIIDKSDVFSRFGIEIIKWAGFHTIKDDIKFSQLFQTLFELETE  
TCAKMLASFKCSLKPEHRDFCFFTIFLKHSAKLTPRVDNEFLNMLLDKGAVKTKNCFE  
IIKPFDKYIMRLQDRLLKSVTPLLMACNAYELSVKMKTLNPLDLALALETTNSLCRKSL  
ALLGQTFSLASSFRQEKILEAVGLQDIAPSPAAFPNFEDSTLFGREYIDHLKAWLVSSGC  
PLQVKKAPEPEMREEEKMIPPTKPEIQAKAPSSLSDAVPQRADHRVVGTDQLVKRVIEG  
SLSPKERTLLKEDPAYWFLSDENSLEYKYYKLKLAEMQRMSENLRGADQKPTSADCAVRA  
MLYSRAVRNLKKLLPWQRRGLLRAQGLRGWKARRATTGTQTLLSSGTRLKHHGRQAPGL  
SQAKPSLPDRNDAKDCPPDPVGPSPQDPSLEASGPSKPAAGVDISEAPQTSSPCPSADI  
DMKTMETAEKLARFVAQVGPEIEQFSIENSTDNPDWLFLHDQNSSAFKFYRKKVFELCPS

ICFTSSPHNLHTGGGDTTGSQESPVDLMEGEAEFEDEPPPREAELESPEVMPEEDEDDE  
DGGEAPAPGGAGKSEGSTPADGLPGEAEDDLAGAPALSQASSGTCFPRKRISSKSLKV  
GMIPAPKRVCLIQEPKVHEPVRIAYDRPRGRPMSSKKKKPKDLDFACQKLTDKNLGFQMLQ  
KMGWKEGHGLGSLGKGIPEVSVGTPSEGEGLGADGQEHKEDTFDVFRQRMQMYRHKRA  
NK

>sp|Q9BRV3|SWET1\_HUMAN Sugar transporter SWEET1 OS=Homo sapiens GN=SLC50A1 PE=2 SV=1  
MEAGGFDSLIIYGACVVFTLGMFSAGLSDLRHRMTRSDNVQFLPFLTTEVNNLWLSY  
GALKGDGILIVVNTVGAALQTLYLALHYCPRKRVLLQTATLLGVLLLGYGFWLLVP  
NPEARLQQLGLFCSVFTISMYSPLADLAKVIQTKSTQCLSYPLTIATLLTSASWCLYGF  
RLRDPYIMVSNFPGIVTSFIRFWLFWKYPQEQDRNYWLLQT

>sp|Q5J TZ9|SYAM\_HUMAN Alanine--tRNA ligase, mitochondrial OS=Homo sapiens GN=AARS2 PE=1  
SV=1

MAASVAAAARRLRRAIRRSPAWRGLSHRPLSSEPPAAKASAVRAAFLNFFRDRHGHRLVP  
SASVRPRGDSLLFVNAGMNQFKPIFLGTVDPRESEMAGFRRVANSQKCVRAGGHNDLED  
VGRDLSHHTFFEMLGNWAFGGEYFKEEACNMAWELLTQVYGIPEERLWISYFDGDPKAGL  
DPDLETRDIWLSLGVPASRVLSFGPQENFWEMGDTGPCGPCTEIHYDLAGGVGAPQLVEL  
WNLVFMQHNREADGSLQPLPQRHVDTGMLERLVAVLQGKHSTYD TDLFSPLLNAIQGC  
RAPPYLGRVGVADGRTDTAYRVVADHIRTLSVCISDGI FPGMSGPPLVLRRLRRAVRF  
SMEILKAPPGFLGSLVPVVVETLGDAYPELQRNSAQIANLVSEDEAAFLASLERGRIID  
RTLRTLGPSPDMFPAEVAWSLSLCGDLGLPLDMVELMLEEKGVQLDSAGLERLAQEEAQR  
ARQAEPVQKQGLWLDVHALGELQRQGVPTDDSPKYNYSLRPSGSYEFGTCEAQLQLYT  
EDGTAVASVGKQRCGLLLDRTNFYAEQGGQASDRGYLVRAGQEDVLPVARAQVCGGFI  
LHEAVAPECLRLGDQVQLHVDEAWRLGCMAKHTATHLLNWALRQTLGPGTEQQGSHLNPE  
QLRLDVTQTPLTPEQLRAVENTVQEAVGQDEAVYMEEVPLALTAQVPLRSLDEVYPDP  
VRVSVGVVPAHALDPASQAALQTSVELCCGTHLLRTGAVGDLVIIGDRQLSKGTTRLLA  
VTGEQAQQARELGQSLAQEVKAATERLSLGSRDVAEALRLSKDIGRLIEAVETAVMPQWQ  
RRELLATVKMLQRRANTAIRKLQMGQAAKKTQELLERHSGPLIVDTVSAESLSVLVKVV  
RQLCEQAPSTSVLLLSPQPMGKVLACQVAQGAMPTFTAEEAWALAVCSHMGGKAWGSRVV  
AQGTGSTTDLEAALSIAQTYALSQ

>sp|P48436|SOX9\_HUMAN Transcription factor SOX-9 OS=Homo sapiens GN=SOX9 PE=1 SV=1  
MNLDPFMKMTDEQEKLSGAPSTMSSEDSAGSPCPSGSGSDTENTRPQENTFPKGEPDL  
KKESEEDKFPVCI REAVSQVLKGYDWTLVPMPVRVNGSSKNKPHVKRPMNAFMVWAQAAR  
RKLADQYPHLHNAELSKTLGKLWRLNESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRK  
SVKNGQAEAEATEQTHISPNAIFKALQADSPHSSSGMSEVHSPGEHSGSQGPPTPTT  
PKTDVQPGKADLKREGRPLPEGGRQPPIDFRDVIDIGELSSDVISNIETFDVNEFDQYLPP  
NGHPGVPATHGQVITYTGSYGISSTAATPASAGHVWMSKQQA PPPPPQPPQAPPAPQAPP  
QPQAAPPQQAAPPQPPQAHTLTLSSEPGQSQRTHIKTEQLSPSHYSEQQQHSPQQIAY  
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>sp|Q86U17|SPA11\_HUMAN Serpin A11 OS=Homo sapiens GN=SERPINA11 PE=2 SV=2  
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LYKELAADAPGNIFFSPVSI STLALLSLGAQANTSALILEGLGFNL TETPEADIHQGF  
SLLHTLALPSPKLELKVGNLFLDKRLKPRQHYLDSIKELYGAFAFSANFTDSVTTGRQI  
NDYLRRQTYGQVVDCLPEFSQDTFMVLANYIFFKAKWKHPFSRYQTQKQESFFVDERTSL

QVPMMHQKEMHRFLYDQDLACTVLQIEYRGNALALLVLPDPGKMKQVEAALQPQTLRKWG  
QLLLPSLLDLHLPRFSISGTYNLEDILPQIGLTNINLEADFSGVTGQLNKTISKVSHKA  
MVDMSSEKTEAGAASGLLSQPPSLNTMSDPHAHFNRPFLLLLWEVTTQSLLFLGKVVNPV  
AG

>sp|P61009|SPCS3\_HUMAN Signal peptidase complex subunit 3 OS=Homo sapiens GN=SPCS3 PE=1  
SV=1

MNTVLSRANSLFAFSLSVMAALTFGCFITTA FKDRSVPVRLHVSRIMLKNVEDFTGPRER  
SDLGFITFDITADLENIFDWNVKQLFLYLSAEYSTKNNALNQVVLWDKIVLRGDNPKLLL  
KDMKTKYFFFDDGNGLKGNRNVTLTLSWNVVPNAGILPLVTGSGHVSVPFPDYEITKSY

>sp|A6NNV3|SPD16\_HUMAN Putative speedy protein E16 OS=Homo sapiens GN=SPDYE16 PE=5 SV=3

MQKHVTVAWFLYSAPGVDPSPPCRSLGWKRKKEWSEDEEEPEKELAPEPEETWVVEMLC  
GLKMKLKQQRVSPILPEHHKDFNSQLAPGVDPSPPHRSFCWKRKREWWDESEESLEEEPR  
KVLAPEPEEIWVVEMLCGLKMKLKRRRVSLVLPHEHFAFNRLLEDPVIKRFLAWDKDLRV  
SDKYLLAMVIAIFYSRAGLPSWQYQRIHFFLALYLANDMEEDDEDPKQNIIFYFLYGKTRSR  
IPLVRNRRFQLCRCMNPRARKNRSQIALFQKLRFFQFCMSGRAWVSREELEEIQAYDPE  
HWVWARDRARLS

>sp|A6NKU9|SPDE3\_HUMAN Speedy protein E3 OS=Homo sapiens GN=SPDYE3 PE=2 SV=2

MTSHQPQPQEEQSPQRSTSGYPLQEVVDDEVSGPSAPGVDPSPPRRSLGCKRKRECLDES  
DDEPEKELAPEPEETWVAETLCGLKMKAKRRRVSLVLPYEEAFNRLAPGVDPSPPRRS  
LGCKRKRECLDES DDEPEKELAPEPEETWVAETLCGLKMKAKRRRVSLVLPYEEAFNRL  
LAPGVDPSPPRRSLGCKRKRECLDES DDEPEKELAPEPEETWVAETLCGLKMKAKRRRV  
LVLPEYEEAFNRLAPGVDPSPPRRSLGCKRKRECLDES DDEPEKELAPEPEETWVAETL  
CGLKMKAKRRRVSLVLPYEEAFNRLAPGVDPSPPRRSLGCKRKRECLDES DDEPEKEL  
APEPEETWVAETLCGLKMKAKRRRVSLVLPYEEAFNRLLEDPVIKRFLAWDKDLRVSDK  
YLLAMVIAIFYSRAGLPSWQYQRIHFFLALYLANDMEEDDEAPKQKIFYFLYGKTHSHIPL  
RPKHWFQLCRPMNPRARKNCSQIALFQKRRFQFFCSMRCAWVSPEEELEEIQAYDPEHWV  
WARDRAHLS

>sp|Q9H9C1|SPE39\_HUMAN Spermatogenesis-defective protein 39 homolog OS=Homo sapiens  
GN=VIPAS39 PE=1 SV=1

MNRTKGDEEEYWNSSKFKAFTFDDDEDELSQLKESKRAVNSLRDFVDDDDDDLERVSWS  
GEPVGSISWSIRETAGNSGSTHEGREQLKSRNSFSYAQLPKPTSTYSLSSFFRGRTRPG  
SFQSLSDALSDTPAKSYAPELGRPKEGYRDYSNDWSPSDTVRRLRKGKVC SLERFRSLQD  
KLQLLEEAVSMHDGNVITAVLIFLKRTLSKEILFRELEVRQVALRHLIHFLKEIGDQKLL  
LDLFRFLDRTEELALSHYREHLNIQDPDKRKEFLKTCVGLPFS AEDSAHIQDHYTLERQ  
IIIEANDRHLESAGQTEIFRKHPRKASILNMPLVTTLFYSCFYHYTEAEGTFSSPVNLKK  
TFKIPDKQYVLTALAAAKLRAWNDVDALFTTKNWLGYTKKRAPIGFHRVVEILHKNNAP  
VQILQEYVNLVEDVDTKLNLATKFKCHDVVIDTYRDLKDRQQLLAYRSKVDKGS AEEEEKI  
DALLSSSQIRWKN

>sp|P19623|SPEE\_HUMAN Spermidine synthase OS=Homo sapiens GN=SRM PE=1 SV=1

MEPGPDGPAASGPAAIREGWRETCSLWPGQALSLQVEQLLHHRRSRYQDILVFRSKTYG  
NVLVLGDGVIQCTERDEFSYQEMIANPLCSHPNPRKVLII GGGDGGVLREVVKHPSVESV  
VQCEIDEDVIQVSKFLPGMAIGYSSSKLTLHVGDGFEMKQNQDAFDV IITDSSDPMGP  
AESLFKESYYQLMKTALKEDGVLCCQGEQWLHLDLIKEMRQFCQSLFPV VAYAYCTIPT  
YPSGQIGFMLCSKNPSTNFQEPVQPLTQQQVAQMQLKYNSDVHRAAFVLPEFARKALND

VS

>sp|Q15772|SPEG\_HUMAN Striated muscle preferentially expressed protein kinase OS=Homo sapiens GN=SPEG PE=1 SV=4

MQKARGTRGEDAGTRAPPSPGVPPKRAKVGAGGGAPVAVAGAPVFLRPLKNAAVCAGSDV  
RLRVVSGTQPQSLRWFRDQQLLPAPAPEPSCLWLRRCGAQDAGVYSCMAQNERGRASCE  
AVLTVLEVGDSETAEDDISDVQGTQRLELRDDGAFSTPTGGSDTLVGTSLDTPPTSVTGT  
SEEQVSWWGSQTVLEQEAGSGGGTRRLPGSPRQAQATGAGPRHLGVEPLVRASRANLVG  
ASWGSSEDSLVSADLYGSAFSLYRGRALSIHVSVPQSGLRREEDLQPQLASEAPRRPAQ  
PPPSKALLPPPSPRVKGKSPGPPAQAATPTSPHRRTQEPVLPEDTTTEEKRGKKS  
SGPSLAGTAESRPQTPLSEASGRLSALGRSPRLVRAGSRILDKLQFFEERRRSLERSDSP  
PAPLRPWVPLRKARLEQPKSERGAPWGTGASQEELRAPGSVAERRRLFQQAASLDER  
TRQRSPASDLELRFAQELGRIRRSSTREELVRSHESLRATLQRAPSPREPGEPLFSRPS  
TPKTSRAVSPAAQPPSPSSAEKPGDEPGRPRSRGPAGRTEPGEGPQQEVRRRDQFPLTR  
SRAIQECRSPVPPAADPEARTKAPPGRKREPPAQAVRFLPWATPGLEGAAPQTLEKN  
RAGPEAEKRLRRGPEEDGPWGPWDRRGARSQKGRRARPTSPELESSDYSVSAGEEPL  
APVFEIPLQNVVAPGADVLLKCIITANPPPQVSWHKDGSALRSEGRLLLRAEGERHTLL  
LREARAADAGSYMATATNELGQATCAASLTVRPGGSTSPFSSPITSDEEYLSPEEFPEP  
GETWPRTPTMKPSQNRSSDTGSKAPPTFKVSLMDQSVREGQDVIMSIQVQGEKPKPV  
SWLRNRQVVRPDQRRFAEEAEGGLCRLRILAAERGDAGFYTKAVNEYGARQCEARLEVR  
AHPESRSLAVLAPLQDQDVGVGAGEMALFECLVAGPTDVEVDWLCRGRLLQPALLKCKMHFD  
GRCKLLLLTSVHEDDSGVYTCKLSTAKDELTCARLTVRPSLAPLFTRLLEDVEVLEGRA  
ARFDCKISGTPPPVVTWTHFGCPMEESNLRLRQDGLHSLHIAHVGEDEGLYAVSAVN  
THGQAHCSAQLYVEEPRTAASGPSSKLEKMPSIPEEPEQGELERLSIPDFLRPLQDLEVG  
LAKEAMLECQVTGLPYPTISWFHNGHRIQSSDDRRMTQYRDVHRLVFPVAVGPQHAGVYKS  
VIANKLGKAACYAHLVYTDVVPDPGAPQVAVTGRMVTLTWNPPRSLDMAIDPDSLTY  
TVQHQLGSDQWTALVTGLREPGWAATGLRKGVQHIFRVLSTTVKSSSKSPSPSEPVLQ  
EHGPTLEEAPAMLDKPDIVYVVEGQPASVTVTFNHVEAQVWVRSCRGALLEARAGVYELS  
QPDDDQYCLRICRVSRRDMGALTCTARNRHGTQTCVSTLELAEAPRFESIMEDVEVGAGE  
TARFAVVVEGKPLPDIMWYKDEVLLTESSHVSFVYEENECSLVVLSTGAQDGGVYTCTAQ  
NLAGEVSCKAELAVHSAQTAMEVEGVGEDEHRRGRRLSDFYDIHQEIGRGAFSYLRRIVE  
RSSGLEFAAKFIPSQAKPKASARREARLLARLQHDCVLYFHEAFERRRGLVIVTELCTEE  
LLERIARKPTVCESEIRAYMRQVLEGIHYLHQSHVLHLDVKPENLLVWDGAAGEQQVRIC  
DFGNAQELTPGEPQYCYGTPEFVAPEIVNQSPVSGVTDIWPVGVAFLCLTGISPFGVGE  
NDRTTLMNIRNYNVAFEETTFLSLSREARGFLIKVLVQDRLRPTAETLEHPWFKTQAKG  
AEVSTDHLKLFLSRRRWQRSQISYKCHLVLRPIPELLRAPPERVVWTPRRPPPSGGLSS  
SSDSEEELEELPSVPRPLQPEFGSRVSLTDIPTEDALGTPETGAATPMDWQEQGRAP  
SQDQEAPSPEALPSPGQEPAGASPRRGELRRGSSAESALPRAGPRELGRGLHKAASVEL  
PQRRSPSPGATRLARGGLGEGEYARLQALRQRLRGGPEDGKVSGLRGPPLLESGLGRAR  
DPRMARAASSEAAPHHPPLENRGLQKSSSFSGEAEPRGRHRRAGAPLEIPVARLGARR  
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EPVRASKPAPPPQALQTLALPLTPYAQIIQSLQLSGHAQGPSQGAAPPSEPKPHAAVFA  
RVASPPGAPEKRVPSAGGPPVLAEKARVPTVPPRPGSSLSSSIENLESEAVFEAKFKRS  
RESPLSLGLRLLSRSRSEERGPFRAEEEDGIYRSPAGTPELVRRPERSRSVQDLRAV  
GEPGLVRRLSLSLQRLRRTPPAQRHPAWEARGGDGESSEGGSSARGSPVLAMRRRLSFT

LERLSSRLQRSGSSEDSGGASGRSTPLFGRLRRATSEGESLRRLLGLPHNQLAAQAGATTP  
SAESLGSEASATSGSSAPGESRSRLRWGFSRPRKDKGLSPPNLSASVQEELGHQYVRSES  
DFPPVFHIKLDQVLLGEAATLLCLPAACPAHISWMKDKSLRSEPSVIIIVSCKDGRQ  
LLSIPRAGKRHAGLYECSATNVLGSITSSCTVAVARVPGKLAPPEVPQTYQDTALVLWKP  
GDSRAPCTYTLERRVDGESVWHPVSSGIPDCYYNVTHLPVGVTVRFRVACANRAGQGPFPS  
NSSEKVFVRGTQDSSAVPSAAHQEAPVTSRPARARPPDSPTSLAPPLAAPTPPSVTVS  
PSSPTPPSQALSSLKAVGPPPTPPRRHRGLQAARPAEPTLPSTHVTTPSEPKPFVLDTG  
TPIPASTPQGKVPVSSSTPVYVTSFVSAPPAPPEPPAPEPPPEPTKVTVQSLSPAKEVVS  
SPGSSPRSSPRPEGTTLRQGPQKPYTFLEEKARGRFGVVRACRENATGRTFVAKIVPYA  
AEGKRRVLQEYEVLRTHHERIMSLHEAYITPRYLVLIAESCGNRELLCGLSDRFRYSED  
DVATYMVQLLQGLDYLHGHVHLHLDIKPDNLLLAPDNALKIVDFGSAQYPNPQALRPLGH  
RTGTLEFMAPEMVKGEPIGSATDIWGAGVLYIIMLSGRSPFYEPDPQETEARIVGGRFDA  
FQLYPNTSQSATLFLRKVLSVHPWSRPSLQDCLAHPWLQDAYLMKLRRQTLTFTTNRLKE  
FLGEQRRRRRAEAATRHKVLLRSYPGGP

>sp|Q8N0X7|SPG20\_HUMAN Spartin OS=Homo sapiens GN=SPG20 PE=1 SV=1

MEQEPQNGEPAEIKIIREAYKKAFLFVNKGLNTDELGQKEEAKNYYKQGIGHLLRGISIS  
SKESEHTGPGWESARMQQKMKETLQNVTRLEILEKGLATSLQNDLQEVPKLYPEFPPK  
DMCEKLPEPQSFSSAPQHAENVGTSTPSAGAVAAPASLSLPSQSCPAEAPPAYTPQAAE  
GHYTVSYGTDSGEFSSVGEEFYRNHSQPPPLETLGLDADELILIPNGVQIFFVNPAGEVS  
APSYPGYLRIVRFLDNSLDTVLNRPPGFLQVCDWLYPLVPDRSPVLKCTAGAYMFPDTML  
QAAGCFVGVVLSSELPEDDRELFEDLLRQMSDLRLQANWNRAEEENEQIPGRTRPSSDQ  
LKEASGTDVKQLDQGNKDVRHKGKRGKRAKDTSSSEVNLSHIVPCEPVPEEKPKELPEWS  
EKVAHNILSGASVWSGLVKGAIEITGKAIQKGASKLRERIQPEEKPEVSPAVTKGLYIA  
KQATGGAAKVSQFLVDGVCTVANCVGKELAPHVKKHGSKLVPESLKKDKDGKSPLDGAMV  
VAASSVQGFSTVWQGLECAAKCIVNNVSAETVQTVRYKYGYNAGEATHHAVDSAVNVGVT  
AYNINNIGIKAMVKKTATQTGHTLLEDYQIVDNSQRENQEGAAANNVRGEKDEQTKEVKE  
AKKKDK

>sp|Q9UQ90|SPG7\_HUMAN Paraplegin OS=Homo sapiens GN=SPG7 PE=1 SV=2

MAVLLLLLRLRRGPGPRPLWGPAPWSPGFPARPGRGRPYMASRPPGDLAEGGRAL  
QSLQLRLLTPTFEGINGLLKQHLVQNPVRLWQLLGGTFYFNTSRLKQKNKEKDKSKGKA  
PEEDEEEERRRRERDDQMYRERLRTLVIADVMSLLNALSTSGGSISWNDFVHEMLAKEV  
QRVQVVPESDVVEVYLHPGAVVFRPRLALMYRMQVANIDKFEEKLRAAEDELNIEAKDR  
IPVSYKRTGFFGNALYSVGMTAVGLAILWYVFRLAGMTGREGGFSAFNQLKMARFTIVDG  
KMGKGVSFKDVAGMHEAKLEVREFVDYLSKSPERFLQLGAKVPKGALLLGPFGCGKTLLAK  
AVATEAQVPFLAMAGPEFVEVIGGLGAARVRSLFKEARARAPCIVYIDEIDAVGKKRSTT  
MSGFSNTEEEQTLNQLLVEMDGMGTDDHVIVLASTNRADILDGALMRPGRDRHVFIDL  
TLQERREIFEQHLKSLKLTQSSTFYSQLAELTPGFSGADIANICNEAALHAAREGHTSV  
HTLNFEYAVERVLGTAKKSKILSKEEQKVAFHESGHALVGWMLEHTEAVMKVSITPRT  
NAALGFAQMLPRDQHLFTKEQLFERMCALGGRASEALSFNEVTSGAQDDLKRVTRIAYS  
MVKQFGMAPGIGPISFPEAQEGLMGIGRRPFSQGLQQMMDHEARLLVAKAYRHTEKVLQD  
NLDKLQALANALLEKEVINYEDIEALIGPPPHGPKMIAPQRWIDAQREKQDLGEEETEE  
TQQPPLGGEEPTWPK

>sp|O43291|SPIT2\_HUMAN Kunitz-type protease inhibitor 2 OS=Homo sapiens GN=SPIT2 PE=1  
SV=2

MAQLCGLRRSRAFLALLGSLLLSGVLAADRERSIHDVCLVSKVVGRCRASMPRWYNVTD  
GSCQLFVYGGCDGNSNNYLTKEECLKKCATVTENATGDLATSRNAADSSVPSAPRRQDSE  
DHSSDMFNYYEYCTANAVTGPCRASFPWFYFDVERNSCNNFIYGGCRGNKNSYRSEEACM  
LRCFRQQENPPLPLGSKVVVLAGLFVMVLILFLGASMVYLIRVARRNQERALRTVWSSGD  
DKEQLVKNTYVL

>sp|P35321|SPR1A\_HUMAN Cornifin-A OS=Homo sapiens GN=SPRR1A PE=1 SV=2

MNSQQQKQPCTPPPQPPQVQKQPCQPPQEPICPKTKEPCHPKVPEPCHPKVPEPCQPK  
VPEPCQPKVPEPCPSTVTPAPAQQKTKQK

>sp|P35325|SPR2B\_HUMAN Small proline-rich protein 2B OS=Homo sapiens GN=SPRR2B PE=2 SV=1

MSYQQQCKQPCQPPPVCPKCEPCPPPKCEPCPPPKCPQCPPQQCQKYPVTPS  
PPCQPKYPPKSK

>sp|Q96RM1|SPR2F\_HUMAN Small proline-rich protein 2F OS=Homo sapiens GN=SPRR2F PE=3 SV=1

MSYQQQCKQPCQPPPVCPAPKCEPCPPPKCEPCPPSKCPQSCPPQQCQKCPPVTPS  
PPCQPKCPPKSK

>sp|Q7Z6I5|SPT12\_HUMAN Spermatogenesis-associated protein 12 OS=Homo sapiens GN=SPATA12  
PE=2 SV=1

MSSSALTCGSTLEKSGDTWEMKALDSSRLVPWPPRGLGSSTQHPNKPICALASCQGPVGL  
PGAASALPELTFQGDVCQSETCQRYLQAAISLDIAVSQINLLGRPSSPALLIQQGSCEQ  
VIHNSTPQFLGMEDGDNERTTGWLWRLCEDIDAEPSSTGCSRSNQLTFTEGCFVRSLSLV  
YSNTHIHTL

>sp|Q96N96|SPT13\_HUMAN Spermatogenesis-associated protein 13 OS=Homo sapiens GN=SPATA13  
PE=1 SV=1

MTSASPEDQNAPVGCPKGARRRRPISVIGVSLYGTNQTEELDNLLTQPASRPPMPAHQV  
PPYKAVSARFRPFTFSQSTPIGLDRVGRRRQMRASNVSSDGGTEPSALVDDNGSEEDFSY  
EDLCQASPRYLQPGGEQLA INELISDGNVCAEALWDHVTMDQELGFKAGDVIQVLEAS  
NKDWWWGRSEDKEAWFPASFVRLRVNQEELSENSSTPSEEQDEEASQSRHRHCENKQQM  
RTNVIREIMDTERVYIKHLRDICEGYIRQCRKHTGMFTVAQLATIFGNIEDIYKFQRKFL  
KDLEKQYNKEEPLSEIGSCFLQNEGFAYSEYCNHHPGACLELANMKQKGKYNHFFEA  
CRLQLQMIIDIAIDGFLTPVQKICKYPLQLAELLKYTTQEHGDYSNIKAAEAMKNVACL  
INERKRKLESIDKIARWQVSIVGWEGLDILDRSSELHSGELTKITKQKSQQRFTFLFD  
HQLVSCCKDLLRRDMLYYKGRLDMEMLVDLGDGRDKDCNLSVKNAFKLVSRITDEVYL  
FCAKKQEDKARWLQACADERRRVQEDKEMGMEISENQKKLAMLNAQKAGHGKSKGYNRCP  
VAPPHQLHPIHQRHITMPTSVPPQQVFLAEPKRKSSLFWHTFNRLTPFRK

>sp|Q5MJ08|SPXN4\_HUMAN Sperm protein associated with the nucleus on the X chromosome N4  
OS=Homo sapiens GN=SPANXN4 PE=3 SV=1

MEEPTSSTNENKMKSPCESNKRKVDKKKKNLHRASAPEQSLKETEKAKYPTLVFYCRKNK  
KRNSNQLENNQPTESSTDPIKEKGDLDISAGSPQDGGQN

>sp|Q8WTU2|SRB4D\_HUMAN Scavenger receptor cysteine-rich domain-containing group B protein  
OS=Homo sapiens GN=SSC4D PE=2 SV=1

MHKEAEMLI GPQLDEKRWGRLGDGSAAPPFLPQALSFLLLLPLASALQPTPLPFQELRL  
VGGPSRCRGRLEV MHGGSWGSVCDDWDVVDANVVCRLGCGLALVPRPLAFGQGRGPI  
LLDNVECRGQEAALSECGSRGWVHNCFHVEDVAVLCDEFPTQPPTKMLTSRAPPTTL  
PNGKSEGSVRLVGGANLCQGRVEILHSLGWTVCDWWGLPDAAVVCRLGCGAAMAATT  
NAFFGYGTGHILLDNVHCEGGEPRLAACQSLGWGVHNCGHEDAGALCAGLGPPTLTALP



SSATREDWAWQTDPSATGVGPQPSRETALLTTAAWAAGKKSGRLRLVGGPGPCRGRVEVL  
HAGGWGTVCDDDDWFADARVACREAGCGPALGATGLGHFGYGRGPVLLDNVGCAGTEARL  
SDCFHLGWGQHNCGHEDAGALCAGPEELGLVQQDQSETTRVPTPRPRDGHLLRLVNGAH  
RCEGRVELYLQGRWGTVCDDAWDLRAAGVLCRQLGCGQALAAPGEAHFGPGRGPILLDNV  
KCRGEESALLLCSHIRWDAHNCDSHEDASVLCQPS

>sp|Q13247|SRSF6\_HUMAN Serine/arginine-rich splicing factor 6 OS=Homo sapiens GN=SRSF6  
PE=1 SV=2

MPRVYIGRLSYNVREKDIQRFFSGYGRLLLEVDLKNYGFVEFEDSRDADDAVYELNGKEL  
CGERVIVEHARGPRRDRDGYSYGSRSGGGYSSRRTSGRDKYGPPVRTEYRLIVENLSSR  
CSWQDLKDFMRQAGEVTYADAHKERTNEGVIEFRSYSDMKRALDKLDGTEINGRNIRLIE  
DKPRTSHRRSYSGRSRSRSTRRSRSRSTRSRSTRSRSTRSRSTRSRSTRSRSTRSRSTRSR  
RKSRSKSKSKPKSDRGSHSRSTRSRSKDEYEKSRSTRSRSTRSPKENGKGIKSKSRSTRSQSR  
SNSPLPVPPSKARSVSPPPKRATSRSTRSRSTRSKSRSTRSRSTRSRSTRSRSTRSRSTRSR

>sp|Q9UHV2|SRTD1\_HUMAN SERTA domain-containing protein 1 OS=Homo sapiens GN=SERTAD1 PE=1  
SV=2

MLSKGLKRKREEEEEKEPLAVDSWWLDPGHTAVAQAPPAVASSSLFDLSVLKLHHSLLQQS  
EPDLRHLVLVNTLRRITQASMAPAAALPPVPSPPAAPSADNLLASSDAALSASMASLLE  
DLSHIEGLSQAPQPLADEGPPGRSIGGAAPSLGALDLLGPATGCLDDGLEGLFEDIDTS  
MYDNELWAPASEGLKPGPEDGPGKEEAPELDEAELDYLMDVLVGTQALERPPPGPR

>sp|Q9UJW9|SRTD3\_HUMAN SERTA domain-containing protein 3 OS=Homo sapiens GN=SERTAD3 PE=1  
SV=2

MVGGLKRKHSDEEEEEERWEWSPAGLQSYQQALLRISLDKVQRSLGPRAPSLRRHVLIHN  
TLQQQLAALRLAPALPPEPLFLGEEDFSLSATIGSILRELDTSMDGTEPPQNPVTPLG  
LQNEVPPQPDVPFLEALSSRYLGDSGLDDFFLDIDTSAVEKEPARAPPEPPHNLFCAPGS  
WEWNELDHIMEIILGS

>sp|Q05066|SRY\_HUMAN Sex-determining region Y protein OS=Homo sapiens GN=SRY PE=1 SV=1

MQSYASAMLSVFNSSDDYSPAVQENIPALRRSSSFLCTESCNSKYQCETGENSKGNVQDRV  
KRPMAFIVWSRDQRRKMALENPRMRNSEISKQLGYQWKMLTEAEKWPFQEAQKLQAMH  
REKYPNYKYRPRRKAKMLPKNCSSLPADPASVLCSEVQLDNRLYRDDCTKATHSRMEHQL  
GHLPPINAASSPQQRDYSHWTKL

>sp|P28290|SSFA2\_HUMAN Sperm-specific antigen 2 OS=Homo sapiens GN=SSFA2 PE=1 SV=3

MDRPLSSSAEAEELWQVASRRRKAWAKCRSSWQASETEDLSTEATTQDEEEDDEEDLP  
GAQLPAAGGRGNVPNEKIAIWLKDCRTPLGASLDEQSSSTLKGVLVRNGGSFEDDSLGA  
EANHLHESDAQIENCNILAKERRLQFHQKGRSMNSTGSGKSSGTVSSVSELLELYEEDP  
EEILYNLGFGRDEPDIASKIPSRFFNSSSAKIDIKVFLSAQMQRMEVENPNYALTSRF  
RQIEVLTTVANAFSSLYSQVSGTPLQRIGSMSSVTSNKETDPPPPLTRSNTANRLMKTLS  
KLNLCDVKTKEGESSPSPSAEKGIILNVSVIEESGNKNDQKSQKIMKKKSSSMLATVK  
EEVSGSSAAVTENADSDRISDEANSNFNQGTENEQSKETQSHESKLGEESGIVESKLDSD  
FNISSELENSSELKSVHISTPEKEPCAPLTIPSIRNIMTQQKDSFEMEEVQSTEGEAP  
HVPATYQLGLTKSKRDHLLRTASQHSDDSGFAEDSTDCLSLNHLQVQESLQAMGSSADSC  
DSETTVTSLGEDLATPTAQDQPYFNESEESLVPLQKGLEKAAAVADKRKSGSQDFPQCN  
TIENTGTKQSTCSPGDHIIIEITEVEEDLFPAETVELLREASAESDVGKSSESEFTQYTH  
HILKSLASIEAKCSDMSSENTTGPPSSMDRVNTALQRAQMKVCSLSNQRMGSRLLKSKDL  
LKQRYLFAGAGYPLRRSQSLPTLLSPVRVSVSVNRLSPGKETRCSPPSFTYKYTPEEE

QELEKRVMEHDGQSLVKSTIFISPSVVKKEEAPQSEAPRVEECHHGRTPTCSRLAPPPMS  
QSTCSLHSIHSEWQERPLCEHTRTLSTHVPNISGATCSAFASPGCPYSHRHATYPYRV  
CSVNPPSAIEMQLRRVLHDIRNSLQNLQSYPMRGPDPAAAPYSTQKSSVLPLYENTFQE  
LQVMRRSLNLFRTQMMDLEAMLRRQTMVYHHMTEERFEVDQLQGLRNSVRMELQDLEL  
QLEERLLGLEEQLRVVRMPSPFRSSALMGMCGRSADNLSCPSPLNMEPVTELMQEQSY  
LKSELGLGLGEMGFEIPPGESSESVFSQATSESSSVCSGSPSHANRRTGVPSTASVGKSKT  
PLVARKKVFRASVALTPTAPSRGTSVQTPPDLESSEEVDAEAGAPEVVGPKSEVEEGHGK  
LPSMPAAEEMHKNEQDELQQVIREIKESIVGEIRREIVSGLLAAVSSSKASNSKQDYH

>sp|Q7RTT6|SSX6\_HUMAN Putative protein SSX6 OS=Homo sapiens GN=SSX6 PE=5 SV=1

MNGDDAFAKRPRDDAKASEKRSKAFDDIAKYFSKEEWEKMKFSEKISCVHMKRKYEAMTK  
LGFNVTLSLFRNKRATDSQRNDSNDRNRGNEVERPQMTFGRLQRIIPKIMPEKPAEEG  
SDSKGVPEASGPQNDGKKLCPPGKASSEKIHERSGPKRGKHAWTHRLRERKQLVIYEEI  
SDPEEDDK

>sp|Q6IMI6|ST1C3\_HUMAN Sulfotransferase 1C3 OS=Homo sapiens GN=SULT1C3 PE=1 SV=1

MAKIEKNAPTMEKKPELFNIMEVDGVPTLILSKEWWEKVCNFAQPDDLILATYPKSGTT  
WMHEILDMILNDGDVEKCKRAQTLDRHAFLELKFPKHEKPDLEFVLEMSSPQLIKTHLPS  
HLIPPSIWKENCKIVYARNPKDCLVSYYHFHRMASFMPDPQNLEEFYEKFMGKVVGGG  
WFDHVKGWAAKDMHRILYLFYEDIKKDPKREIEKILKFLEKDISEEILNKIIYHTSFDV  
MKQNPMNTNYTTLPTSIMDHSISPFMRKGM PGDWKNYFTVAQNEEFDKDYQKKMAGSTLTF  
RTEI

>sp|POCL84|ST3L2\_HUMAN Putative STAG3-like protein 2 OS=Homo sapiens GN=STAG3L2 PE=5 SV=1

MIFSMRLKLPKVTCRDVLPEIRAICIEEIGCWMQSYSTSFLTDSYLKYIGWTLHDKHREV  
RVKCVKALKGLYGNRDLTARLELFTGRFKDWMVSMIVDREYSVAVEAVRLLILILKNMEG  
VLMDVDCESVYPIV

>sp|Q92783|STAM1\_HUMAN Signal transducing adapter molecule 1 OS=Homo sapiens GN=STAM PE=1  
SV=3

MPLFATNPFQDVEKATSEMNTAEDWGLILDICDKVGQSRTGPKDCLRSIMRRVNHKDPH  
VAMQALTLLGACVSNCGKIFHLEVCSRDFASEVSNVLNKGHPKVCEKLKALMVEWTDEFK  
NDPQLSLISAMIKNLKEQGVTFPAIGSQAAEQAKASPALVAKDPGTVANKKEEEDLAKAI  
ELSLKEQRQQSTTLSTLYPSTSSLLTNHQHEGRKVRAYDFEAAEDNELTFKAGEIITVL  
DDSDPNWWKGETHQGIGLFPSNFVTADLTAEPEMIKTEKKTQVQFSDDVQVETIEPEPEPA  
FIDEDKMDQLLQMLQSTDPDQPDLPPELLHLEAMCHQMGPIDEKLEDIDRKHSELSEL  
NVKVMEALSlyTKLMNEDPMYSYAKLQNQPYYMQSSGVSGSQVYAGPPPSGAYLVAGNA  
QMSHLQSYSLPPEQLSSLSQAVPPSANPALPSQQTQAAYPNTMVSSVQGNTYPSQAPVY  
SPPPAATAAAATADVTLYQNAGPNMPQVPNYNLTSSTLPQPGGSQPPQPQPYQKALL

>sp|O75886|STAM2\_HUMAN Signal transducing adapter molecule 2 OS=Homo sapiens GN=STAM2  
PE=1 SV=1

MPLFTANPFEQDVEKATNEYNTTEDWSLIMDIDCKVGSTPNGAKDCLKAIMKRVNHKVP  
VALQALTLLGACVANCGKIFHLEVCSRDFATEVRAVIKKAHPKVCEKLKSLMVEWSEEF  
QKDPQFSLISATIKSMKEEGITFPAGSQTVSAAKNGTSSNKNKEDEDIKAIELSLQE  
QKQQTETKSLYPSSEIQLNNKVARKVRALYDFEAVEDNELTFKHGEIIVLDDSDANWW  
KGENHRGIGLFPSNFVTNLNIEEAAAVDKLNVIDDDVEEIKKSEPEPVYIDEDKMDRA  
LQVLQSIDPTDSKPSQDLDLEDICQMGPIDEKLEEIDRKHSELSELNVKVLEALEL  
YNKLVNEAPVYSVYSLHPPAHYPPASSGVPMQTYPVQSHGGNYMGQSIHQVTVAQSYSL

GPDQIGPLRSLPPNVNSSVTAQPAQTSYLSLGQDTSNPTYMNQNSNLQSATGTTAYTQQ  
MGMSVDMSSYQNTTSNLPQLAGFPVTVPAHPVAQQHTNYHQQPLL

>sp|Q9NSY2|STAR5\_HUMAN StAR-related lipid transfer protein 5 OS=Homo sapiens GN=STARD5  
PE=1 SV=2

MDPALAAQMSEAVAEEKMLQYRRDTAGWKICREGNGVSVWRPSVEFPGNLYRGEGIVYGT  
LEEVDWCVKPAVGGLRVKWDENVTFGEIIQSITDTLCVSRTSTPSAAMKLISPRDFVDLV  
LVKRYEDGTISSNATHVEHPLCPPKPGFVRGFNHPGCGCFCEPLPGEPTKTNLVTFHTDL  
SGYLPQNVVDSFFPRSMTRFYANLQKAVKQFHE

>sp|O95793|STAU1\_HUMAN Double-stranded RNA-binding protein Staufen homolog 1 OS=Homo  
sapiens GN=STAU1 PE=1 SV=2

MSQVQVQVQNPSAALSGSQILNKNQSLLSQPLMSIPSTTSSLPSENAGRPIQNSALPSAS  
ITSTAAAESITPTVELNALCMKLGKKPMYKPVDPYSRMQSTYNYNMRGGAYPPRYFYF  
PVPPLLYQVELSVGGQQFNGKGKTRQAAKHDAAKALRILQNEPLPERLEVNGRESEEN  
LNKSEISQVFEIALKRNLVPNFEVARESGPPHMKNFVTKVSVGEFVGEGEGKSKKISKKN  
AAIAVLEELKKLPLPAVERVKPRIKKTKPIVKPQTSPEYGGINPISRLAQIQAKKE  
KEPEYTLTTERGLPRRREFVMQVKVGNHTAEGTGTNKKVAKRNAENMLEILGFKVPQAQ  
PTKPAKSEEKTIKKPGDGRKVTFEFGSGDENGTSNKEDEFRMPYLSHQQLPAGILPM  
VPEVAQAVGVSQGHHTKDFTRAAPNPAKATVTAMIARELLYGGTSPTAETILKNNISSGH  
VPHGPLTRPSEQLDYLSRVQGFQVEYKDFPKNNKNEFVSLINCSSQPPLISHGIGKDVES  
CHDMAALNILKLLSELDQQSTEMPRTGNGPMSVCGRC

>sp|076061|STC2\_HUMAN Stanniocalcin-2 OS=Homo sapiens GN=STC2 PE=1 SV=1

MCAERLGQFMTLALVLATFDPARGTDATNPPEGPDQRSSQQKGRSLQNTAEIQHCLVNA  
GDVCGGVFECEFENNSCEIRGLHGICMTFLHNAGKFDAQGKSFIKDALKCKAHALRHRFGC  
ISRKCPAIREMVSQVQRECYLKHDLCAAAQENTRVIVEMIHFKDLLLHEPYVDLVNLLLT  
CGEEVKEAITHSVQVQCEQNWGSLCSILSFCTSAIQKPPTAPPERQPQVDRTKLSRAHHG  
EAGHHLPEPSSRETGRGAKGERGSKSHPNAHARGRVGGLGAQGPSGSSEWEDEQSEYSDI  
RR

>sp|P49842|STK19\_HUMAN Serine/threonine-protein kinase 19 OS=Homo sapiens GN=STK19 PE=1  
SV=2

MQKWFSADFDAIIQRQWRANPSRGGGVSFTKEVDTNVATGAPRRQRVPGRACPWREPI  
RGRRGARPGGGDAGGTPGETVRHCSAPEDPIFRFSSLHSYPFPGTIKSRDMSWKRHHLLIP  
ETFGVKRRRRKRPVESDPLRGEPSARAASVSELMQLFPRGLFEDALPPIVLRVSVYSLVP  
DRTVADRQLKELQEQGEIRIVQLGFDLDAHGIIFTEDYRTRVCDVLCACDGRPYAGAVQ  
KFLASVLPACGDLFSFQQDQMTQTFGFRDSEITHLVNAGVLTVRDAGSWWLAVPGAGRFIK  
YFVKGRQAVLSMVRKAKYRELLSELLGRRAPVVVRLGLTYHVHDLIGAQLVDCISTTSG  
TLLRLPET

>sp|Q9BXU1|STK31\_HUMAN Serine/threonine-protein kinase 31 OS=Homo sapiens GN=STK31 PE=2  
SV=2

MWVQGHSSRASATESVSFSGIVQMDEETHYDKVEDVVGSHIEDAVTFWAQSINRNKDIMK  
IGCSLSEVCPQASSVLGNLDPNKIYGGLFSEDQCWYRCKVLKIIISVEKCLVRYIDYGNT  
ILNRSDIVEIPELQFSSVAKKYKLWGLHIPSDQEVTFQDQGTTFGLSLIFEKEIKMRIK  
ATSEDTGTVIAQAEYGSVDIGEEVLKKGFAEKCLASRTDICEEKKLDPGQLVLRNLKSPI  
PLWGHRSNQSTFSRPGHLSKMTLDLKDENDAGNLITFPKESLAVGDFNLGSNVSLEKI  
KQDQKLEENELKTEKDALLESYKALELKVEQIAQELQQEKAAAVDLTNHLEYTLKTYI

DTRMKNLAAKMEILKEMRHVDISVRFGKDLSDAIQVLDEGCFTTPASLNGLEIIWAEYSL  
AQENIKTCEYVSEGNILIAQRNEMQQKLYMSVEDFILEVDESSLNKRKLTQLDLSVSLEA  
VYGQAKEGANSDEILKKFYDWKCDKREEFTSVRSETDASLHRLVAVWFQRTLKVFDLSVEG  
SLISEDAMDNIDEILEKTESSVCKELEIALVDQGDADKEIISNTYSQVLQKIHSEERLIA  
TVQAKYKDSIEFKKQLIEYLNKSPSVDHLLSIKKTLSLKALLRWKLVEKSNLEESDDPD  
GSQIEKIKEEITQLRNNVFQEIYHEREEYEMLTSLAQKWFPELPLLHPEIGLLKYMNSGG  
LLTMSLERDLLDAEPMKELSSKRPLVRSEVNGQIILLKGYSVDVDTEAKVIERAATYHRA  
WREAEGDSGLLPLIFLFLCKSDPMAYLMVPYPRANLNAVQANMPLNSEETLKVMKGVAQ  
GLHTLHKADIHGHSLHQNNVFALNREQGIVGDFDFTKSVSQRASVNMVGDLSLMSPELK  
MGKPASPGSDLYAYGCLLLWLSVQNQFEINKDGIPKVDQFHLDDKVKSLLCSLICRYS  
MTAEQVLNAECFLMPKEQSVNPKEKDEYTLTKKEEIKTENLDKCKEKTNRNGEANFDC

>sp|Q13188|STK3\_HUMAN Serine/threonine-protein kinase 3 OS=Homo sapiens GN=STK3 PE=1 SV=2

MEQPPAPKSKLKKLSEDSLTKQPEEVFDVLEKLGEYSYGSVFKAHKEGSGQVVAIKQVPV  
ESDLQEIIKEISIMQCDSPYVVKYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLE  
DEIATILKSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNT  
VIGTPFWMAPEVIQEIYGNVADIWSLGITSIEMAEGKPPYADIHPMRAIFMIPTNPPT  
FRKPELWSDDFTDFVKKCLVKNPEQRATATQLLQHPFIKNAKPVSI LRDLITEAMEIKAK  
RHEEQQRELEEEENSDEDELDSTMVKTSVESVGTMRATSTMSEGAQTMIEHNSTMLES  
DLGTMVINSEDEEEEDGTMKRNATSPQVQRPSFMDYFDKQDFKNKSHENCNQNMEHPFPM  
SKNVFPDNWKPQDGFDFLKNLSLEELQMRKALDPMMEIEELRQRYTAKRQPIILDA  
MDAKKRRQQNF

>sp|O60499|STX10\_HUMAN Syntaxin-10 OS=Homo sapiens GN=STX10 PE=1 SV=1

MSLEDPPFFVVRGEVQKAVNTARGLYQRWCELLQESAAGREELDWTNENLRNGLRSIEWD  
LEDLEETIGIVEANPGKFKLPAGDLQERKVFVERMREAVQEMKDHVSPTAVAFLEARNR  
EILAGKPAAQKSPDLLDASAVSATSRYIEEQATQQLIMDEQDQQLMVSGSIQVLKHM  
SGRVGEELDEQIMLDAFAQEMDHTQSRMDGVLRLKAKVSHMTSDRRQWCIAVLVGVL  
LVLILLFSL

>sp|Q86Y82|STX12\_HUMAN Syntaxin-12 OS=Homo sapiens GN=STX12 PE=1 SV=1

MSYGPLDMYRNPGSPGQLRDFSSIIQTCSGNIQRISQATAQIKNLMSQLGTKQDSSKLQ  
ENLQQLQHSTNLAKETNELLKELGSLPLPLSTSEQRQQLQKERLMNDFSALNNFQAV  
QRRVSEKEKESIRARAGSRLSAEERQREEQLVSFDSHEEWNQMQSQEDEVAITEQDLEL  
IKERETAIRQLEADILDVNQIFKDLAMMIHDQGLIDSIEANVESSEVHVERATEQLQRA  
AAYQKKSRRKMCILVLVLSVIIILGLIIWLVIYTK

>sp|Q9BXA5|SUCR1\_HUMAN Succinate receptor 1 OS=Homo sapiens GN=SUCNR1 PE=1 SV=2

MLGIMAWNATCKNLAAEALEKYLSIFYGIEFVVGVLGNTIVVYGYIFSLKNWNSSNI  
YLFNLSVSDLAFLCTLPMLIRSYANGNWIYGDVLCISNRYVLHANLYTSILFLTFISDR  
YLI IKYPFREHLLQKKEFAILISLAIWVLVLTLELLPILPLINPVITDNGTTCNDFASSGD  
PNYNLIYSMCLTLLGFLIPLFVMCFYYKIALFLKQRNRQVATALPLEKPLNLVIMAVVI  
FSVLFTPYHVMNRVRIASRLGSWKYQCTQVVINSFYIVTRPLAFLNSVINPVFYFLLGD  
HFRDMLMNQLRHNFKSLTSFSRWAHELLLSFREK

>sp|Q9H6I2|SOX17\_HUMAN Transcription factor SOX-17 OS=Homo sapiens GN=SOX17 PE=1 SV=1

MSSPDAGYASDDQSQTQSALPAVMAGLGPCPWAESLSPIGDMKVKGAPANGAPAGAAG  
RAKGESRIIRPMNAFMVWAKDERKRLAQQNPDLHNAELSKMLGKSWKALTAEKRPFVEE  
AERLRVQHMQDHPNYKYRPRRRKQVKRLKRVGGFLHGLAEPQAAALGPEGGRVAMDGLG

LQFPEQGFAPGPLLPHPMGGHYRDCQSLGAPPLDGYPLTPDTSPLDGVDPDPAFFAAP  
MPGDCPAAGTYSYAQVSDYAGPPEPPAGPMHPRLGPEPAGPSIPGLLAPPSALHVYYGAM  
GSPGAGGGRGFQMPPQHQQHQQHPPGPGQSPPEALPCRDGTDPSQPAELLGEVDR  
TEFEQYLHFVCKPEMGLPYQGHDSGVNLPDSHGAISSVSDASSAVYYCNYPDV

>sp|P41225|SOX3\_HUMAN Transcription factor SOX-3 OS=Homo sapiens GN=SOX3 PE=1 SV=2

MRPVRENSSGARSPRPADLARSILISLPFPDSLHRPPSSAPTESQGLFTVAAPAPGA  
PSPPATLAHLLPAPAMYSLLETELKNPVGTPTQAAGTGGPAAPGGAGKSSANAAGGANS  
GGSSGGASGGGGTDQDRVKPMNAFMVWSRGQRRKMALENPKMHNSEISKRLGADWKL  
TDAEKRPFIDEAKRLRAVHMKEYPDYKYRPRRKTLLKKDKYSLPSGLLPPGAAAAA  
AAAAAAASSPVGVGQRLDTYTHVNGWANGAYSLVQEQLGYAQPSSPPPPALPPMH  
RYDMAGLQYSPMPPGAQSYMNVAAAAAASGYGMAPSATAAAAAAYGQPATAAAAA  
AAAAMSLGPMGSVVKSEPSSPPPAIASHSQRACLGDLRDMISMYLPPGGAADAASPLPG  
GRLHGVHQHYQGAGTAVNGTVPLTHI

>sp|Q06945|SOX4\_HUMAN Transcription factor SOX-4 OS=Homo sapiens GN=SOX4 PE=1 SV=1

MVQQTNNAENTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDPWCKTPSGHIK  
RPMNAFMVWSQIERRKIMEQSPDMHNAEISKRLGKRWKLKDSKIPFIREAERLRLKHM  
ADYPDYKYRPRKKVKSNGNANSSSSAAASSKPGEKGDVGGSGGGGGHGGGGSSNAGGG  
GGGASGGGANSKPAQKKSCGSKVAGGAGGVSKPHAKLILAGGGGGKAAAAAASF  
QAGAAALLPLGAAADHHSYKARTPSASASASSAASASAALAAPGKHLAEKKVKRVYLF  
GLGTSSSPVGGVAGADPSDPLGLYEEEGAGCSPDAPSLSGRSSAASSPAAGRSPADHRG  
YASLRAASPAPSSAPSHASSASSSSSSSGSSSDDEFEDLLDLNPSSNFESMSLG  
SFSSSSALDRDLDFNFEPSGSHFEFPDYCTPEVSEMISSGDWLESSISNLVFTY

>sp|P57073|SOX8\_HUMAN Transcription factor SOX-8 OS=Homo sapiens GN=SOX8 PE=2 SV=1

MLDMSEARSQPPCPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGVAVGGARGDPAEAA  
DERFPACIRDAVSQVLKGYDWSLVPMPVRGGGGALKAKPHVKRPMNAFMVWAQARRKL  
ADQYPHLHNAELSKTLGKLWRLSESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSAK  
AGHSDSDSGAELGPHPGGAVYKAEAGLGDGHHGDHTGQTHGPPTPPTPKTELQQAGA  
KPELKLEGRRPVDSGRQNI DFSNVDISELSSEVMGTMDAFDVHEFDQYLPLGGPAPPEPG  
QAYGGAYFHAGASPVWAHKSAPSASASPTETGPPRPHIKTEQPSPGHYDQPRGSPDYGS  
CSGQSSATPAAPAGPFAGSQGDYDGLQASSYYGAYPGYAPGLYQYPCFHSPPRPYASPLL  
NGLALPPAHSPTSHWDQPVYTTLTRP

>sp|P23497|SP100\_HUMAN Nuclear autoantigen Sp-100 OS=Homo sapiens GN=SP100 PE=1 SV=3

MAGGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDDRLLYDIVFKHFERN  
KVEISNAIKKTFPFLEGLRDRDLITNKMFEDESQDSCRNLVPVQRVVYNVLELEKTFNLP  
VLEALFSDVNMQEYDPLIHIYKGFENVIHDKLPLQESEEEEREERSGLQLSLEQGTGENS  
FRSLTWPPSGSPSHAGTTPPENGLSEHPCETEQINAKRKDTTSDKDDSLGSQQTNEQCAQ  
KAEPTESEQIAVQVNGDAGREMPCLPCDEESPEAELHNHGIQINSCSVRLVDIKKEK  
PFSNSKVEQQAQARTHNNQASDIIVISSEDESGSTDVDEPLEVFISAPRSEPVINNDNPL  
ESNDEKEGQEATCSRQIVPEPMDFRKLSTFRESFKKRVIGQDHDFSESSEEEAPAEASS  
GALRSKHGEKAPMTSRSTSTWRIPSRKRRFSSSDFSDLSNGEELQETCSSSLRRGSGSQP  
QEPENKKCSCVMCFPKGVPQRSQEARTESSQASDMMDTMDVENNSTLEKHSKRRKKRRHR  
SKVNGLQGRKKDRPRKHLTLNKNVQKKRWQQRGRKANTRPLKRRRKRGPRI PKDENINF  
KQSELVTCGEVKGTYKERFKQGTSKKCIQSEDKKWFTPREFEIEGDRGASKNWKLSIR  
CGGYTLKVL MENKFLPEPPSTRKKRILESHNNTLVDPCEEHKKKNPDASVKFSEFLKKCS

ETWKTIFAKEKGKFEDMAKADKAHYEREMKTYIPPKGEKKKKFKDPNAPKRPPLAFFLFC  
SEYRPKIKGEHPGLSIDDVVKLAGMWNNTAAADKQFYEKKAACLKEKYKKDIAAYRAKG  
KPNsAKRrVvKAeKsKKKKEEEDEEDEQEEENEEDDDK

>sp|Q15005|SPCS2\_HUMAN Signal peptidase complex subunit 2 OS=Homo sapiens GN=SPCS2 PE=1 SV=3

MAAAAVQGGRSGGSGGCSGAGGASNCGTGSGRSGLLDKWKIDDKPKIDKWDGSAVKNSL  
DDSAKKVLLKYYVENFGLIDGRLTICTISCFFAIVALIWDYMHPFPESKPVLALCVIS  
YFVMMGILTIYTSYKEKSIFLVAHRKDPTGMDPDDIWQLSSSLKRFDDKYTLKLTfISGR  
TKQQRaeFTKsIAKFFDHSGTLVMDAYePEISRLHDSLAIERKIK

>sp|Q5TCZ1|SPD2A\_HUMAN SH3 and PX domain-containing protein 2A OS=Homo sapiens GN=SH3PXD2A PE=1 SV=1

MLAYCVQDATVVDVEKRRNPSKHVYIINVTWSDSTSQTIIYRRYSKFFDLQMQLLDKFP  
EGGQKDPKQRIIPFLPGKILFRRSHIRDVAVKRLKPIDEYCRALVRLPPHISQCDEVFRF  
FEARPEDVNPPKEDYGSSKRKSvWLSSWAESPkkDVTGADATAePMILEqYVVVSnyKKQ  
ENSELSLQAGEVVVDIEKNESGWWFVSTSEEQGWVPATYLEAQNGTRDDSDINTSKTGEV  
SKRRKAHLRRLDRRWTLGGMVNRQHSREEKYVTVQPYTSQSKDEIGFEKGVTVEVIRKNL  
EGWYIryLGKEGWAPAsYLKKAkDDLpTRKKNLAGPVEIIGNIMEISNLLNKKASGDKE  
TPPAEGEGHEAPIAKKEISLPILCNASNGSAVGVPDRTVSRLAQGSPAVARIAPQRAQIS  
SPNLRTRPppRRESSLGFQLPKPPEPPSVEVEYTTIAEFQSCISDGISFRGGQKAeIDK  
NSGGWWYVQIGeKEGWAPAsYIDKRKKPNLSRRtSTLTRPKVPPpAPPsKPKeAEEGPTG  
ASESQDSPRKLKYEEPEYDIPAFGFDSEPELSEEPVEDRASGERRPAQPHRSPASSLQR  
ARFKVGESSEDVALEETIYENEGFRPYAEDTLsARGSSGDSDSPGSSSLSLTRKNSPKS  
GSPKSSLLKLKAekNAQAEMGKNHSSAsFSSSITINTCCSSSSSSSSSLSKTSGDLKP  
RSASDAGIRGTPKVRAKKDADANAGLTSCPRAKPSVRPKPFLNRAESQSqEKMDISTLRR  
QLRPTGQLRGGLKGSKSEdSELPPQTASEAPSEGSRRSSDLITLPATTPCPTKKEWEG  
PATSYMTCsAYQKVQDSEISFPAGVEVQVLEKQESGWWYVRfGELEGWAPSHYLVLDENE  
QPDPSGKELDTVPAKGRQNEGKSDSLEKIERRVQALNTVNQSKKATPPIPSKPPGGFGKT  
SGTPAVKMRNGVRQVAVRPQSVFVSPPPKDNLSALRRNESLTATDGLRGVRRNSSFST  
ARsAAAEAKGRLAERAsSQGSDSPLLPaQRNSIPVSPVRPKPIEKsQFIHNNLKDVVVS  
ADYEGDEETAGFQEGVSMEVLERNPNGWYQCILDGVKPFKGWVPSNYLEKKN

>sp|POCI01|SPDE6\_HUMAN Putative speedy protein E6 OS=Homo sapiens GN=SPDYE6 PE=4 SV=1

MDRTETRFRKRGITGKITTSRQPHQNEQSPQRSTSGYPLQEVVDEMLGPSAPGVDP  
PPCRSLGWKRKREWSDESEEEPEKELAPEPEETWVVEMLCGLKMKLKQQRVSSILPEHHK  
DFNSQLAPGVDPSPPHRSFCWKRKMEWDESEESLEEEPRKVLAPEPEEIWVAEMLCGLK  
MKLKRRRVSLVLEPHHEAFNRLLDPVIKRFLAWDKDLRVSDKYLLAMVIAYFSRAGFPS  
WQYQRIHFFLALYLANDMEEDDEDKQNIHFFLYRKNRSRIPLLRKRWFQLGHSMNPRAR  
KNRSRIPLLRKRRFQLYRSTNPRARKNRSRIPLLRKRRFQLYRSMNSRARKNRSQIVLFQ  
KRRFHFFCSMSCRAWVSPEELEEIQAyDPEHwVWARDRAHLS

>sp|095238|SPDEF\_HUMAN SAM pointed domain-containing Ets transcription factor OS=Homo sapiens GN=SPDEF PE=1 SV=1

MGSASPLSSVSPSHLLLPPDTSVRTGLEKAAAGAVGLERRDWSPPPATPEQGLSAFYL  
SYFDMLYPEDSSWAAPGASSREEPPEEPEQCPVIDSQAPAGSLDLVPGGLTLEEHSLE  
QVQSMVVGEVLKDIETACKLLNITADPMDWSPSNVQKWLLWTEHQYRLPPMGKAFQELAG  
KELCAMSEEQFRQRSPLGGDVLHAHLDIWKSAAWMKERTSPGAIHYCASTSEESWTDSEV

DSSCSGQPIHLWQFLKELLLKPHSYGRFIRWLNKEKGIFKIEDSAQVARLWGIRKNRPAM  
NYDKLSRSIRQYYKKGIIRKPDISQRLVYQFVHPI

>sp|Q5MJ68|SPDYC\_HUMAN Speedy protein C OS=Homo sapiens GN=SPDYC PE=1 SV=1

MLWAIPELGSPCPISISYEMSDSQDPTTSPVVTQVELGGCSRQGGNGFLRFRQHQEVQ  
AFLSLLSDSFVQEFLSKDPCFQISDKYLLAMVLVYFQRAHLKLSEYTHSSLFLALYLAND  
MEEDLEGPKCEIFPWALGKDWCLRVGKFLHQRDKLWARMGFRAVVSQCCCEEVMAKEPFH  
WAWTRDRRPHHGGVQVCPQVPVRLPRGPGLSPPHCSPCGLPQHCSHLLKPVSSKCPSL  
TSECHRPSPQNYLSRVKNAWGGDFLIVLPPQMQLPEPTYSLRIFPKPPARPGH

>sp|Q76KD6|SPERI\_HUMAN Spериоlin OS=Homo sapiens GN=SPATC1 PE=2 SV=2

MSLLTNYEGLRHQIERLVRENEELKKLVRLIRENHELKSAIKTQAGGLGISGFTSGLGEA  
TAGLSSRQNGVFLPPSPAVANERVLEEVGIMALAPLAEMLTSLQPSATPGSLMSPLTGT  
LSTLLSGPAPTSQSSPLTSFLTSPAGPLTGTLASSLGLPSTGTLPSSLVAGPVAMSQS  
SPLIAPVMGTVAVSLSSPLSSTATPPGVSQNLNPMNSNLVLEAPRLRLAEPLRGGPT  
GPQSPACVVTATTKVPLSTEPQSTQDPEPLSMAFAGAPLQTSTPIGAMGTPAPKTAFS  
FNTSDTQAQPSAAQEQVVPASVPTSPTTSPVTVLASAPALAPQVATSYTPSSSTTHIAQG  
APHPPSRMHNSPTQNLVPVHCPHNAHSPRTSSSPASVNSRGPRTTEPSTKSMMEVER  
KLAHRKTSKFPENPRESKQLAWERLVGEIAFQLDRRILSSIFPERVRLYGFTVSNIPEKI  
IQASLNPSDHKLDEKLCQRLTQRYVSVMNRLQSLGYNGRVHPALTEQLVNAYGILRERPE  
LAASEGGPYTVDFLQRVVETVHPGMLADALLLSCLSQLAHDDGKPMFIW

>sp|Q9NZD8|SPG21\_HUMAN Maspardin OS=Homo sapiens GN=SPG21 PE=1 SV=1

MGEIKVSPDYNWFRGTVPLKKIIVDDDDSKIWSLYDAGPRSIRCPLIFLPPVSGTADVFF  
RQILALTGWGYRVIALQYPVYWDHLEFCDFGRKLLDHLQLDKVHLFGASLGGFLAQKFAE  
YTHKSPRVHSLILCNFSFSDTSIFNQTTWANSFWLMPAFMLKKIVLGNFSSGPVDPMMADA  
IDFMVDRLESLGQSELASRLTLNCQNSYVEPHKIRDIPVTIMDVFDQSALSTEAKEEMYK  
LYPNARRAHLKTGGNFYLCRSAEVNLYVQIHLQFHGTYAAIDPSMVSAAEELEVQKGS  
LGISQEEQ

>sp|P51688|SPHM\_HUMAN N-sulphoglucosamine sulphohydrolase OS=Homo sapiens GN=SGSH PE=1  
SV=1

MSCPVPACCALLLVGLCRARPRNALLLADDGGFESGAYNNSAIATPHLDALARRSLLF  
RNAFTSVSSCSPSRASLLTGLPQHQNMYGLHQDVHHFNSFDKVRSLPLLSQAGVRTGI  
IGKKHVGPEVYPFDFAYTEENGSVLQVGRNITRIKLLVRKFLQTQDDRPFPLYVAFHDP  
HRCGHSQPQYGTFCFKNGESGMGRIPDWTPQAYDPLDVLVPYFVPNTPAARADLAAQY  
TTVGRMDQGVGLVLQELRDAGVLNDTLVIFTSNNGIPFSGRTNLYWPGTAEPLLVSSPE  
HPKRWGQVSEAYVSLDLTPTILDWFSIPYPSYAIFGSKTIHLTGRSLLPALEAEPLWAT  
VFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFKMPFPIDQDFYVSPTFQDLLNRTTAGQP  
TGWYKDLRHYYYRWRWELYDRSRDPHETQNLATDPRFAQLLEMLRDQLAKWQWETHDPWV  
CAPDGVLEEKLSPQCQPLHNEL

>sp|Q9BPZ2|SPI2B\_HUMAN Spindlin-2B OS=Homo sapiens GN=SPIN2B PE=2 SV=1

MKTPNAQEAEGQQTAAAGRATGSANMTKKKVSQKKQGRPSSQPRRNIVGCRISHGWKE  
GDEPITQWKGTVDQVPINPSLYLVKYDGIDCVYGLELHRDERVLSKILSDRVASSHIS  
DANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQAPIMKAWFYITYEKDPVLYMYQLLDD  
YKEGDLRIMPESSESPTTEREPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYF  
IKFDDDFHIYVYDLVKKS

>sp|Q01892|SPIB\_HUMAN Transcription factor Spi-B OS=Homo sapiens GN=SPIB PE=1 SV=1

MLALEAAQLDGPHFSCLYPDGVFYDLDSCKHSSYPDSEGAPDSLWDWTVAPPVPATPYEA  
FDPAFAAFSHPQAAQLCYEPPTYSPAGNLELAPSLEAPGPGLPAYPTENFASQTLVPPAY  
APYPSPVLSEEDLPLDSPALEVSDSEDEALVAGPEGKGSEAGTRKKLRLYQFLLGLLT  
RGDMRECVWWVEPGAGVFQFSSKHKELLARRWGQQKGNRKRMTYQKLARALRNYAKTGEI  
RKVKRKLTYQFDSALLPAVRRRA

>sp|Q5JUX0|SPIN3\_HUMAN Spindlin-3 OS=Homo sapiens GN=SPIN3 PE=1 SV=1

MKTPFGKAAAGQRSRTGAGHGVSVMIKRKAHKKHRSRPTSQPRGNIVGCRIQHGWKD  
GDEPLTQWKGTVDQVPVNPSLYLIKYGDFDCVYGLELHRDERVSSLEVLNVRVASSRIS  
DTHLAEIMVGKAVEHIFETEESKNEWGMVLAQAPVMNTWFYITYEKDPVLYMYQLLDD  
YKGDGLRILQDSNDSPLAEREPEVIDSLVGKQVEYAKDDGSKRTGMV IHQVEAKPSVYF  
IKFDDDFHIYVYDLVKTS

>sp|Q8WWL2|SPIR2\_HUMAN Protein spire homolog 2 OS=Homo sapiens GN=SPIRE2 PE=1 SV=3

MARAGSCGGAAGAGRPEPWELSLEEVLKAYEQPLNEEQAWAVCFQGCRGLRGSPGRRLR  
DTGDLRLRGDGSVGAREPEAAEPATMVVPLASSEAQTVQSLGFAIYRALDWGLDESEERE  
LSPQLERLIDLMANNDSEDSGCCAADEGYGGPEEEEEAEVPRSVRTFAQAMRLCAARLT  
DPRGAQAHYQAVCRALFVETLELRAFLARVREAKEMLQKLREDEPHLET PRAELDSLGH  
DWARLWVQLMRELRRGVKLKKVQE QEFNPLPTEFQLTPFEMLMQDIRARNYKLRKVMVDG  
DIPPRVKDAHELILDFIRSRPLKQVSERRLRPLPPKQSLHEKILEEIKQERRLRPVR  
GEGWAARGFGSLPCILNACSGDAKSTSCINLSVTDAGGSAQRPRPRVLLKAPT LAEMEEM  
NTSEEEESPCGEVT LKRDRSFSEHDLAQLRSEVASGLQSATHPPGGTEPPRPRAGSAHVW  
RPGSRDQGTCPASVSDPSHLLSNRGSSGDRPEASMTDAKHLWLEFSHPVESLALTVEE  
VMDVRRVLVKAEMEKFLQNKELFSSLKKGKICCCRAKFPLFSWPPSCLFCKRAVCTSCS  
IKMKMP SKKFGHIPVYTLGFESPQRVSAAKTAPIQRRDIFQSLQGPQWQSVEEAFPHIYS  
HGCVLKDV CSECTSFVADVVRSSRKSVDVLNTTPRRSRQTQSLYIPNTRTLDFK

>sp|O43278|SPIT1\_HUMAN Kunitz-type protease inhibitor 1 OS=Homo sapiens GN=SPINT1 PE=1  
SV=2

MAPARTMARARLAPAGIPAVALWLLCTLGLQGTQAGPPPAPPGLPAGADCLNSFTAGVPG  
FVLDTNASVSNAGATFLESPTVRRGWDCVRACCTTQNCNLALVELQPDRGEDAIAACFLIN  
CLYEQNFVCKFAPREGFINYL TREVYRSYRQLRTQGFGGSGIPKAWAGIDLKVQPQEPLV  
LKDVNTDWRLLRGDTDVRVERKDPNQVELWGLKEGTYLFQLTVTSSDHPEDTANVTVTV  
LSTKQTEDYCLASNKVGRCRGSFPRWYDPT EQICKSFVYGGCLGNKNNYLREEECILAC  
RGVQGGPLRGSSGAQATFPQGSMERRHPVCSGTCQPTQFRCSNGCCIDSFLECDDTPNC  
PDASDEAAACEKYTSGFDELQRIHFPSDKGHCVDLPDTGLCKESIPRWYNNPFSEHCARFT  
YGGCYGNKNNFEEQQCLESCRGISKKDVFGLRREIPIPTSGSVEMAVAVFLVICIVVVV  
AILGYCFFKNQRKDFHGHHPPTPASSTVSTTEDTEHLVYNHTTRPL

>sp|Q6UDR6|SPIT4\_HUMAN Kunitz-type protease inhibitor 4 OS=Homo sapiens GN=SPINT4 PE=3  
SV=1

MKSAKLGFLRRFFIFCSLNTLLGGVNKIAEKICGDLKDPCKLDMNFGSCYEVHFRYFYN  
RTSKRCETFVFSGCNGNLNNFKLKIEREVACVAKYKPPR

>sp|P35326|SPR2A\_HUMAN Small proline-rich protein 2A OS=Homo sapiens GN=SPRR2A PE=1 SV=1  
MSYQQQQCKQPCPPPVCP TP KCPECP PP KCPECP PP KCPCPP QQQQ KYPPVTPS  
PPCQSKYPPKSK

>sp|Q9BYE4|SPR2G\_HUMAN Small proline-rich protein 2G OS=Homo sapiens GN=SPRR2G PE=3 SV=1  
MSYQQQQCKQPCPPPVCP TP KCPECP PP KCPEPYLPP PCPEHCPP PCQDKCPPVQP



YPPCQQKYPPKSK

>sp|P09486|SPRC\_HUMAN SPARC OS=Homo sapiens GN=SPARC PE=1 SV=1

MRAWIFFLLCLAGRALAAPQQEALPDETEVVEETVAEVTEVSVGANPVQVEVGEFDDGAE  
ETEEVVAAENPCQNHCKHKGKVCELDENNTPMCVCQDPTSCAPIGEFEKVCSDNKNKTFD  
SSCHFFATKCTLEGTKKGKHLHLDYIGPCKYIPPCLDSELTFFPLMRDWLKNVLVTLYE  
RDEDNNLLTEKQKLVRVKIHNENKRLAAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQ  
HPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYIALDEWAGCFGIKQKDIDKD  
LVI

>sp|Q96PI1|SPRR4\_HUMAN Small proline-rich protein 4 OS=Homo sapiens GN=SPRR4 PE=2 SV=1

MSSQQQQRQQQCPQRAQQQVKQPCPPPVKCQETCAPKTKDPCAPQVKKQCPPKGTI  
IPAQQKCPSAQQASKSKQK

>sp|Q9H040|SPRTN\_HUMAN SprT-like domain-containing protein Spartan OS=Homo sapiens  
GN=SPRTN PE=1 SV=2

MDDDLMLALRLQEEWNLQEAERDHAQESLSLVDASWELVDPTDLQALFVQFNDQFFWGQ  
LEAVEVKSVMRTLCAGICSYEGKGMCSIRLSEPLLKLRPKDLVETLLHEMIHAYLFV  
TNNDKDREGHGPEFCKMHMRINSLTGANITVYHTFHDEVDEYRRHWWRCNGPCQHRPPYY  
GYVKRATNREPSAHDYWWAEHQKTCGGTYIKIKEPENYSKKGKAKLGKEPVLAENKD  
KPNRGEAQLVIPFSGKGYYVLGETSNLSPGKLITSHAINKTQDLLNQNHSAVVRPNSKI  
KVKFEQNGSSKNSHLVSPAVSNHQNVLSNYFPRVSFANQKAFRGVNGSPRISVTGNIP  
KNSVSSSSQRRVSSSKISLRNSSKVTESASVMPSQDVSGSEDTFPNKRPRLEDKTVFDNF  
FIKKEQIKSSGNDPKYSTTTAQNSSSSSSQSKMVNCPVCQNEVLESQINEHLDWCLEGDS  
IKVKSEESL

>sp|Q8WW59|SPRY4\_HUMAN SPRY domain-containing protein 4 OS=Homo sapiens GN=SPRYD4 PE=1  
SV=2

MALLFARSLRLCRWGAKRLGVASTEAQRGVSFKLEEKTAHSSLALFRDDMGVYGLVGL  
PTKVALNVERFREWAVVLADTAVTSGRHYWEVTVKRSQQFRIGVADVMSRSDSCIGVDDR  
SWVFTYAQRKWTMLANEKAPVEGIGQPEKVGLLLEYEAQKLSLVDVSQVSVVHTLQTDF  
RGPVVPALFALWDGELLTHSGLEVPEGL

>sp|Q5MJ07|SPXN5\_HUMAN Sperm protein associated with the nucleus on the X chromosome N5  
OS=Homo sapiens GN=SPANXN5 PE=3 SV=1

MEKPTSSTNGEKRKSPCDSNSKNDEMQETPNRDLVLEPSLKKMKTSEYSTVLVLCYRKT  
KIHSNQLENDQS

>sp|O43610|SPY3\_HUMAN Protein sprouty homolog 3 OS=Homo sapiens GN=SPRY3 PE=2 SV=2

MDAAVTDDFQQILPIEQLRSTHASNDYVERPPAPCKQALSSPSLIVQTHKSDWSLATMPT  
SLPRSLSQCHQLQPLPQHLSQSSIASSMSHSTTASDQRLASITPSPSGQSIIRTQPGAG  
VHPKADGALKGEAEQSAGHPSEHLFICEECGRCKCVPCTAARPLPSCWLCNQRCLCSAES  
LLDYGTCCLCCVKGLFYHCSTDDNCADEPCSCGPSSCFVRWAAMSLISLFLPCLCCYLP  
TRGCLHLCQQGYDSLRRPGCRCKRHTNTVCRKISSGSAPFPKAQEKSV

>sp|Q8N5C6|SRBD1\_HUMAN S1 RNA-binding domain-containing protein 1 OS=Homo sapiens  
GN=SRBD1 PE=1 SV=2

MSSLPRRAKVQVQDVVLKDEFSSFSSELSSASEEDDKEDSAWEPQKKVPRSRKQPPPKESK  
PKRMPRVKKNAPQISDGSEVVVKEELNSSVAIADTALEDKRNKLDTVQTLKTAKTKQKC  
AAQPHTVRRTKKLKVEEETSKASNLEGESNSSETPSTSTVWGGTCKKEENDDDFTFGQSA  
LKKIKTETYPQGQPVKFPANANSTKEEVMNWDVQVLSERTNIEPWVCANIIRLFNDDN

TIPFIIRYRKELINNLDADSLREVQQTLEELRAVAKKVHSTIQIKKEGKMSECLLKAML  
NCKTFEELEHVSAPYKTGSKGTAKRARQLGLEGAARALLEKPGELSLLSYIRPDVKGLS  
TLQDIEIGVQHILADMIAKDKDITDFIRNLCQKRHVCIQSSSLAKVSSKKVNEKDVDKFL  
YQHFSCNIRNIHHHQLAINRGENLKVLTVKVNI SDGVKDEFRCWCIQNRWRPRSFARPE  
LMKILYNSLNSFKRLIYPLLCREFRAKLTSDAEKESVMMFGRNLRQLLLTSPVPGRITLM  
GVDPGYKHGCKLAIISPTSQILHTDVVYLHCGQGFRFAEKIKTLLNFNCSTVVINGTA  
CRETEAYFADLIMKNYFAPLDVVYICVSEAGASIYSVSPEANKEMPGLDPNLSAVSIAR  
RVQDPLAELVKIEPKHIGVGMVYQHDVSTLLKATLDSVVEECVSFVGVDINICSEVLLRH  
IAGLNANRAKNIIEWREKNPFINREQLKKVKGLGPKSFQQCAGFIRINQDIYRTFCSQQ  
TETSGQIQGVAVTSSADVEVTNEKQGGKKSKTAVNVLLKPNPLDQTCIHPESYDIAMRFL  
SSIGGTLYEVGKPEMQKINSFLEKEGMEKIAERLQTTVHTLQVIIDGLSQPESFDFRTD  
FDKPDFKRSIVCLEDLQIGTVLTGKVENATLFGIFVDIGVGKSGLIPIRNVTEAKLSKTK  
KRRSLGLGPGERVEVQVLNIDIPSRITLDLIRVL

>sp|Q9C0H9|SRCN1\_HUMAN SRC kinase signaling inhibitor 1 OS=Homo sapiens GN=SRCIN1 PE=1  
SV=3

MrgawVHLHSGAASSLRPCRCGAGAAPKSSPRSPGGRRGDGSSDSEGGVSFAGVFLQFG  
EETRRVHI THEVSSDLTLHALIAHMPFQKLTMGMLKSPNTAILIKDEARNVFYELEDVRD  
IQDRSIIKIYRKEPLYAAFPGSHLTNGDLRREMVYASRESSPTRRLNNLSPAPHLASGSP  
PPGLPSGLPSGLQSGSPSRSLSYAGGRPPSYAGSPVHHAERLGGAPAAQGVSPSPSAI  
LERRDVKPEDLASKAGGMVLVKEGLYADPYGLLHEGRSLAAAAGDPFAYPGAGGLYK  
RGSVRSLSYSTSAAALQSDLEDSTLYKAAGGGGPLYGDGYGFRLLPPSSPQKLADVAAPGGP  
PPPHSPYSGPPSRGSPVRQSFRRKDSGSSSVFAESPGGKTRSAGSASTAGAPPSELFPGPG  
ERSLVGFGPPVPAKDTETREMEAMEKQIASLTGLVQSALLRGSEPTPSEKIEGSNGAA  
TPSAPCGSGRRSGATPVSGPPPPSASSTPAGQPTAVSRLQMLHLRGLQNSASDLRGQL  
QQLRKLQLQNQESVRALLKRTEAELSMRVSEAARRQEDPLQRQRTLVEEERLRYLNDEEL  
ITQQLNDEKSVEKIQRDVSHNHLVPGPELEEKALVLKQLGETLTELKAHFPGLQSKMR  
VVLVEVEAVKFLKEEPQRDLGLKRCRGVTDTLAQIRRQVDEGVWPPPNLLSQSPKKV  
TAETDFNKSVD FEMPPSPPLNLHELSGPAEGASLTPKGGNPTKGLDTPGKRSVDKAVSV  
EAAERDWEWKRAALTQYSAKDINRLLEETQAELLKAIPDLDCASKAHPGPAPTDPHKPPK  
APHGQKAAPRTEPSGRRGSDCLTVPRYRTEKPSKSPPPPPRRSFSSHGLTTTRTGEVV  
VTSKKDSAFIKKAEESELEVQKPKVQLRRVSEVARPASTPPIMASAIKDEDEDRIIAE  
LES GGGSVPPMKVTPGASRLKAAQAGSPDKSKHGKQRAEYMRIQAQQQATKPSKEMS  
GSNETSSPVSEKPSASRTSIPVLTSFGARNSSISF

>sp|P12931|SRC\_HUMAN Proto-oncogene tyrosine-protein kinase Src OS=Homo sapiens GN=SRC  
PE=1 SV=3

MGSNKS KPKDASQRRRSLEPAENVHAGGGAFPASQTPSKPASADGHRGPSAAFAPAAAE  
PKLFGGFNSSDVTSPQRAGPLAGGVTTFVALYDYESRTETDLSFKKGERLQIVNTEGD  
WWLAHSLSTGQTGYIPSNYVAPSDSIQAEWYFGKITRRESERLLLNAENPRGTFLVRES  
ETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGL  
CHRLTTVCPTSKPQTQGLAKDAWEIPRESLRLEVKLGGCGFGEVWMTWNGTTRVAIKTL  
KPGTMSPEAFLEAQVMKKLRHEKLVQLYAVVSEPIYIVTEYMSKGSLLDFLKGETGKY  
LRLPQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYT  
ARQGA KFP IKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLQVER  
GYRMPCPPECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL

>sp|Q14162|SREC\_HUMAN Scavenger receptor class F member 1 OS=Homo sapiens GN=SCARF1 PE=1 SV=3

MGLGLLLPLLLLWTRGTQGSSELDPKGQHVCVASSPSAELQCCAGWRQKDQECTIPICEGP  
DACQKDEVCKPGLCRCKPGFFGAHCSSRCPGQYWGPDCRESCPCPHGQCEPATGACQC  
QADRWGARCEFPACGPHGRCDPATGVCHCEPGWWSSTCRRPCQCNTAAARCEQATGACV  
CKPGWWGRRCSFRNCNCHGSPCEQDSGRACACRPGWWGPECQQCECVRGRCSAASGECTCP  
PGFRGARCELPCPAGSHGVQCAHSCGRCKHNEPCSPDTGSCESCEPGWNGTQCQQPCLPG  
TFGESCEQQCPHCRHGEACEPDTGHCQRCDPGWLGPCEPCPTGTGFGEDCGSTCPTCVQ  
GSCDTVTGDCVCSAGYWGPPSCNASCPAGFHGNNCSVPCECPEGLCHPVSGSCQPGSGSRD  
TALIAGSLVPLLLLFLGLACCACCCWAPRSDLKDRPARDGATVSRMKLQVWGTLSLST  
LPCRSLSSHKL PWTVSHHDPEVPFNHSFIEPPSAGWATDDSFSSDPESGEADEVPAYCV  
PPQEGMVPVAQAGSSEASLAAGAFPPPEDASTPFAIPRTSSLARAKRPSVSFAEGTKFAP  
QSRSSGELSSPLRKPKRLSRGAQSGPEGREAEESTGPEEAEAPESFPAAASPGDSATGH  
RRPPLGGRTVAEHVEAIEGVSQESSGPVTTIYMLAGKPRGSEGPVRSVFRHFGSFQKGQA  
EAKVKRAIPKPPRQALNRKKSGPLASGSGVQSPNSAPKAGLPATGPM AVRPEEAVRGL  
GAGTESSRR AQEPVSGCGSPEQDPQKQAEERQEEPEYENVVPI SRPPEP

>sp|076094|SRP72\_HUMAN Signal recognition particle subunit SRP72 OS=Homo sapiens GN=SRP72 PE=1 SV=3

MASGGSGGVSVPALWSEVNRYGQNGDFTRALKTVNKLQINKDDVTALHCKVVCLIQNGS  
FKEALNVINTHTKVLANNLSFEKAYCEYRLNRIENALKTIESANQQTDLKELYGQVLY  
RLERYDECLAVYRDLVRNSQDDYDEERKTNLSAVVAAQSNWEKVVPENLGLQEGTHELCY  
NTACALIGQGQLNQAMKILQKAEDLCRRSLSEDTDGTEEDPQAE LAI IHGQMAYIILQLQG  
RTEEALQLYNQI IKLKPTDVGLLAVIANNI ITINKDQNVFDSKKKVKL TNAEGVEFKLSK  
KQLQAIEFNKALLAMYTNAEQCRKISASLQSQSPEHLLPVL IQAAQLCREKQHTKAIEL  
LQEFSDQHPENAAEIKLTMAQLKISQGNISKACLILRSIEELKHKPGMV SALVTMYSHEE  
DIDSAIEVFTQAIQWYQNHQPKSPAHL SLIREAANFKLKYGRKKEA ISDLQQLWKQNP KD  
IHTLAQLI SAYSLVDPEKAKALSKHLPSSDSMSLKVDVEALENSAGATYIRKKGGKVTGD  
SQPKEQGQGD LKKKKKKKKGLPKNYDPKVPDPERWLP MRERSYYRGRKKGKKKDQIGK  
GTQGATAGASSELDASKTVSSPPTS PRPGSAATVSASTSNIIPRHQKPAGAPATKKKQQ  
QKKKKGGKGGW

>sp|Q96SB4|SRPK1\_HUMAN SRSF protein kinase 1 OS=Homo sapiens GN=SRPK1 PE=1 SV=2

MERKVLALQARKKRTAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPN  
DYCKGGYHLVKIGDLFNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHTET  
ALDEIRLLKSVRNSDPNDPNREMVVQLLDDFKISGVNGTHICMVFEVLGHLLKWI I KSN  
YQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNEQYIRRLAAEATEWQR  
SGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAEELLEKRMQEI EEMEKESGPGQ  
KRPNKQEESESPVERPLKENPPNKMTQE KLEESSTIGQDQTLMERDTEGGAAEINCNGVI  
EVINYTQNSNNETLRHKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCTPITSE  
VSDTMVCQSSSTVGQSFSEQHISQLQESIRAEIPCEDEQE QEHNGPLDNKGKSTAGNFLV  
NPLEPKNAEKLKVKIADLGNACWVHKHFTEDIQTRQYRSLEVLI GSGYNTPADIWSTACM  
AFELATGDYLFEPHSGEEYTRDEDHIALI IELLGKVPRKLIVAGKYSKEFFTKKGDLKHI  
TKLKPWGLFEVLVEKYEWSQEEAAGFTDFLLPMLLEIPEKRATAAECLRHPWLNS

>sp|Q14140|SRTD2\_HUMAN SERTA domain-containing protein 2 OS=Homo sapiens GN=SERTAD2 PE=1 SV=1

MLGKGGKRKFDEHEDGLEGKIVSPCDGPSKVSYTLQRQTIFNISLMKLYNHRPLTEPSLQ  
KTVLINNMLRRIQEELKQEGSLRPMFTPSSQPTTEPSDSYREAPPAFSHLASPSSHPCDL  
GSTTPLEACLTASPALLEDDDDTFCTSQAMQPTAPTKLSPPALLPEKDSFSSALDEIEELC  
PTSTSTEATAATDSVKGTSSEAGTQKLDGPQESRADD SKLMDSLPGNFEITTSTGFLTD  
LTLDLILFADIDTSMYDFDPCTSSSGTASKMAPVSADDLLKTLAPYSSQPVTPSQPFKMD  
LTELDHIMEVLVGS

>sp|Q9BYNO|SRXN1\_HUMAN Sulfiredoxin-1 OS=Homo sapiens GN=SRXN1 PE=1 SV=2  
MGLRAGGTLGRAGAGRGAPEGPGPSGGAQGGSIHSGRIAAVHNVPVSVLIRPLPSVLDPA  
KVQSLVDTIREDPDSVPPIDVLWIKGAQGGDYFYSFGGCHRYAAYQQLQRETIPAKLVQS  
TSLDLRVYLGASTPDLQ

>sp|Q04837|SSBP\_HUMAN Single-stranded DNA-binding protein, mitochondrial OS=Homo sapiens  
GN=SSBP1 PE=1 SV=1  
MFRRPVLQVLRQFVRHESETTSLVRLSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLA  
TNEMWRSRGDSEVYQLGDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYM  
DKNNVRRQATTIIADNIIFLSDQTKEKE

>sp|Q14714|SSPN\_HUMAN Sarcospan OS=Homo sapiens GN=SSPN PE=2 SV=3  
MGKNKQPRGQQRGGPPAADAAGPDDMEPKKGTGAPKECGEEEPRTCCGCRFPLLLALLQ  
LALGIAVTVVGLMASISSLLVRDTPFWAGIIVCLVAYLGLFMLCVSYQVDERTCIQFS  
MKLLYFLLSALGLTVCVLAVAFAAHHYSQLTQFTCETTLDSQCCKLPSSSEPLSRTFVYRD  
VTDCTSVTGTFLKFLLIQMILNLVCGLVCLLACFVMWKHRYQVFYVGVRICSLTASEGPQ  
QKI

>sp|P43308|SSRB\_HUMAN Translocon-associated protein subunit beta OS=Homo sapiens GN=SSR2  
PE=1 SV=1  
MRLLSFVVLALFAVTQAEEGARLLASKSLLNRYAVEGRDLTLQYNIYVNGSSAALDVELS  
DDSFPPEDFGIVSGLNVKWDRIAPASNVSHTVVLRPLKAGYFNFTSATITYLAQEDGPV  
VIGSTSAPGGGILAQREFDRRFSPHFLDWAAFGVMTLPSIGIPLLLWYSSKRKYDTPKT  
KKN

>sp|Q6ZMT1|STAC2\_HUMAN SH3 and cysteine-rich domain-containing protein 2 OS=Homo sapiens  
GN=STAC2 PE=1 SV=1  
MTEMSEKENEPDDAATHSPPGTVSALQETKLQRFKRSLSLKTI LRKSLENFFLRSGSEL  
KCPTEVLLTPPTPLPPSPPTASDRGLATPSPSPCPVPRPLAALKPVRLHSFQEHVFKR  
ASPCELCHQLIVGNSKQGLRCKMCKVSVHLWCSEEISHQQCPGKTSTSFRRNFSSPLL VH  
EPPVCATSKESPPTGDSGKVPVYETLRYGTSLALMNRSSFSSTSESPTRSLSERDELT  
EDGEGSIRSSEEGPGDSASPVFTAPAESEGPPEEKSPGQQLPKATLRKDVGPMSYVAL  
YKFLPQENNDLALQPGDRIMLVDDSNEDWWKGKIGDRVGFFPANFVQVRPGENVWRCCQ  
PFSGNKEQGYMSLKENQICVGVGRSKDADGFIRVSSGKKRGLVPVDALTEI

>sp|Q9NUL3|STAU2\_HUMAN Double-stranded RNA-binding protein Staufen homolog 2 OS=Homo  
sapiens GN=STAU2 PE=1 SV=1  
MANPKEKTAMCLVNELARFNRPQYKLLNERGPAHSMFSVQLSLGEQTWESEGSSIKK  
AQQAVANKALTESTLPKPVQPKPSNVNNNPGSITPTVELNGLAMKRGEPAIYRPLDPKP  
FPNYRANYNFRGMYNQRYHCPVKIFVYVQLTVGNNEFFGEGKTRQAARHNAAMKALQALQ  
NEPIPERSPQNGESGKMDDDKDANKSEISLVFEIALKRNMPVSFEVIKESGPPHMKSFV  
TRVSVGEFSAEGEGNSKKLSKKRAATTVLQELKKLPPLPVVEKPKLFFKKRPKTIKAGP  
EYGGQMNPI SRLAQIQAKKEKEPDYVLLSERGMPRRREFVMQVKVGNEVATGTGPNKKI

AKKNAAEAMLLQLGYKASTNLQDQLEKTGENKGWSGPKPGFPEPTNNTPKGILHLSPDVY  
QEMEASRHKVISGTTLGYLSPKDMNPSSSFFSISPTSNSSATIARELLMNGTSSTAETAI  
GLKGSSPTPPCSPVQPSKQLEYLARIQGFQAALSALKQFSEQGLDPIDGAMNIEKGSLEK  
QAKHLREKADNNQAPPGSIAQDCKKSNSAV

>sp|Q9Y2K9|STB5L\_HUMAN Syntaxin-binding protein 5-like OS=Homo sapiens GN=STXBP5L PE=1  
SV=2

MKKFNFRKVLDTASSPGSGSSSGSNSGGGAGSGSVHPAGTAGVLREEIQETLTSEYFQ  
ICKTVRHGFPHQPTALAFDPVKILAIIGTRTGAIIRLGRPGVDCYQCQHESGA AVLQLQFL  
INEGALVSASSDDTLHLWNLRQKRPAILHSLKFNRRERITYCHLPFQSKWLYVGTERGNTH  
IVNIESFILSGYIMWNKAIELSTKTHPGPVVHLSDSPRDEGKLLIGYENGTVVFWDLKS  
KRAELRVYYDEAIHSIDWHHEGKQFMCSHSDGSLTLWNLKSPSRPFQTTIPHGKSQREGR  
KSECKPILKVEYKTCNSEPFIIFSGGLSYDKACRRPSLTIMHGKAITVLEMDHPIVEF  
LTLCEPYPNEFQEPYAVVVLEKDLIVVDLTQSNFPIFENPYPMDIHESPVCTAYFAD  
CPPDLILVLYSIGVKHKKQGYSNKEWPISSGAWNLGAQTYPEIIITGHADGSIKFWDASA  
ITLQMLYKLKTSKVFQKQVGEKQTCIEVEDPFAIQMIYWCPESRIFCVSGVSAYVII  
YKFSRHEITTEIVSLEVRLQYDVEDIITPEPETSPPFPDLAQLPSSRSLSGSTNTVASE  
GVTKDSIPCLNVKTRPVRMPPGYQAEVLVIQLVWVDGEPQQITSLAVSSAYGIVAFGNCN  
GLAVVDFIQKTVLLSMGTIDLYRSSDLYQRQPRSPRKNKQFIADNFCMRGLSNFYPD LTK  
RIRTSYQSLTELNDSPVPLELERCKSPTSDHVNGHCTSPTSQSCSSGKRLSSADVSKVNR  
WGPRPPFRKAQSAACMEISLPVTTEENRENSYNRSRSSSISSIDKDSKEAITALYFMD  
FARKNDSTISPCLFVGTSLGMVLIISLNLPLADEQRFTPEVMVLPSTFLSLKGAVLTFS  
CMDRMGGLMQPPYEVWRDPNNIDENEKSWRRKVMNSSSASQEIGDHQYTIICSEKQAKV  
FSLPSQTCCLYVHNITETSFILQANVVVMCSSACLACFCANGHIMIMSLPSLRPMLDVNYL  
PLTDMRIARTFCFTNEGQALYLVSPTEIQRLTYSQEMCDNLQDMLGDLFTPIETPEAQNR  
GFLKGLFGGSGQTFDREELFGEASAGKASRLAQHIPGPGSIEGMKGAAGGVMGELTRAR  
IALDERGQRLGELEEKTAGMMTSAEAFSKHAHELMLKYKDKKWKYQF

>sp|O95210|STBD1\_HUMAN Starch-binding domain-containing protein 1 OS=Homo sapiens  
GN=STBD1 PE=1 SV=1

MGAVWSALLVGGGLAGALFVWLLRGGPGDTGKDGAEQEKDAPLGGAIPGGHQSGSSGL  
SPGPSGQELVTKPEHLQESNGHLISKTKDLGKLQAASWRLQNPSREVCNDSREHVP SGQF  
PDTEAPATSETSNRSYSEVSRNESLESPMGEWGFQKQGEISAKAATCFAEKLPSNLLK  
NRAKEMSLSDLNSQDRVDHEEWEMVPRHSSWGDVGVGGS LKAPVLNLNQMDNGRSTLV  
EARGQQVHGKMERVAVMPAGSQVSVRFQVHYVTSTDVQFIAVTGDHECLGRWNTYIPLH  
YNKDGFWSHSIFLPADTVVEWKFVLVENGGVTRWEECSNRFLETGHEDKVVHAWWGIH

>sp|P52823|STC1\_HUMAN Stanniocalcin-1 OS=Homo sapiens GN=STC1 PE=1 SV=1

MLQNSAVLLVLVISATHEAEQNDSVSPRKS RVAAQNSAEVVRCLNSALQVGCGAFACL  
ENSTCDTDGMYDICKSFLYSAKFDTQGKAFVKESLKC IANGVTSKVFLAIRRCSTFQRM  
IAEVQEECYSKLNVCSIAKRNPEAITEVVQLPNHFSNRYYNRLVRSLLCEDEDTVSTIRD  
SLMEKIGPNMASLFHILQTDHCAQTHPRADFNRRRTNEPQKLKVLLRNLRGEEDSPSHIK  
RTSHESA

>sp|O00506|STK25\_HUMAN Serine/threonine-protein kinase 25 OS=Homo sapiens GN=STK25 PE=1  
SV=1

MAHLRGFANQHSRVDPEELFTKLDRIKGSGFGEVYKIDNHTKEVVAIKIIDLEEADEI  
EDIQQEITVLSQCDSPIYTRYFGSYLKSTKLWIIMEYLGGSALDLLKPGPLEETYIATI

LREILKGLDYLHSEKIHHRDIKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPF  
WMAPEVIKQSAYDFKADIWSLGITAIELAKGEPPNSDLHPMRVLFLIPKNSPTLEGQHS  
KPFKEFVEACLNKDPFRPTAKELLKHKFITRYTKKTSFLTELIDRYKRWKSEGHGEES  
SESDSIDGEAEDGEQGIWTFPPTIRPSPHSKLHKGTALHSSQKPAEPVKRQPRSQCLST  
LVRPVFGELKEKHKQSGGSVGALEELANAFSLAEESCPGISDKLMVHLVERVQRFSHNRN  
HLTSTR

>sp|Q9P289|STK26\_HUMAN Serine/threonine-protein kinase 26 OS=Homo sapiens GN=STK26 PE=1  
SV=2

MAHSPVAVQVPGMQNNIADPEELFTKLERIGKGSFGEVFKGIDNRTQQVVAIKIIDLEEA  
EDEIEDIQQEITVLSQCDSSYVTKYYGSLKGSKLWIIMEYLGGSALDLLRAGPFDEFQ  
IATMLKEILKGLDYLHSEKKIHHRDIKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFV  
GTPFWMAPEVIKQSAYDSKADIWSLGITAIELAKGEPPNSDMHPMRVLFLIPKNNPPTLV  
GDFTKSFKEFIDACLNKDPFRPTAKELLKHKFIVKNSKKTSYLTELIDRFKRWKAEGHS  
DDESDSEGSDSESTRENTHPEWSFTTVRKKPDPKKVQNGAEQDLVQTLSCLSMIITPA  
FAELKQDENNASRNQAIEELEKSIATAEAACPGITDKMVKKLIEKFQKCSADESP

>sp|Q8WXE9|STON2\_HUMAN Stonin-2 OS=Homo sapiens GN=STON2 PE=1 SV=1

MTTLDHVIATHQSEWVSFNEEPPFPAHSQGGTEEHLPLGLSSSPDQSESSSGENHVVDGGS  
QDHSHEQDDSSSEKMGLISEAASPPGSPEQPPDLASAINWVQFEDDTPWASTSPPHQE  
TAETALPLTMPCWTCPSFDSLGRCLTSESSWTTHSEDTSSPSFGCSYTDLQLINAEEQT  
SGQASGADSTDNSSLQEDEEVEMEAISWQASSPAMNGHPAPPVTSARFPSWVTFDDNEV  
SCPLPPVTSPLKPNTPPSASVIPDVPYNSMGSKRDRPKSTLMNFSKVQKLDISSLNRT  
PSVTEASPWRATNPFLNETLQDVQPSPINPFSAFFEEQERRSQNSSISSTTGKSQRDSLI  
VIYQDAISFDDSSKTQSHSDAVEKLKQLQIDDPDHFGSATLPDDDPVAWIELDAHPPGSA  
RSQPRDGWPMMLRIPEKKNIMSSRHWGPIFVKLTDGTGLQLYYEQGLEKPFREFKLEICH  
EISEPRLQNYDENGRIHSLRIDRVTYKEKKKYQPKPAVAHTAEREQVIKLTNYDDFLS  
FIHAVQDRMLDPLVLSMDLSTVGLNLYLEEITVDVRDEFSGIVSKGDNQILQHHVLTRI  
HLSFLSGLAECRLGLNDILVKGNEIVLRQDIMPTTTTKWKLHECRFHGCVDEDVFHNSR  
VILFNPLDACRFELMRFRVFAEKTLPFTLRTATSVNGAEVEVQSWLRMSTGFSANRDPL  
TQVPCENVMI RYPVPSEWVKNFRRESVLGEKSLKAKVNRGASFGSTSVSGSEPVMRVTLG  
TAKYEHAFNSIVWRINRLPDKNASGHPHCFCHLELGS DREVPSRFANHVNVEFSMPTT  
SASKASVRSISVEDKTDVRKWNYSAHYSYQVALGSIWMLMPTPFVHPTTLPLFLAML  
TMFAW

>sp|Q8N412|STPG2\_HUMAN Sperm-tail PG-rich repeat-containing protein 2 OS=Homo sapiens  
GN=STPG2 PE=2 SV=1

MYDRAPRLKLAEAGGSTEAHVGPQSYQVPFLKQATGSNAPFLSLTARESTFTIASSIEK  
AVPGPGHYNVSEAKISRSPTLTRSVDVPSIPSCGKSYGYHINDGSI IKCFPPACDSTL  
GPAYYKPFQFVSNATLKYGIIHFGNSSGRQELPKKSGPGPGQYDIVQKKTSYYENVNIKR  
DQQQNYCSFIPRLYEIIVLQEKKKRFLPMKSITPAPGTYNERTALKSLKKTSGLKNIPF  
GQSAVRFTQDIRTEMPGPGFYVNLNTIIASVRNICKSKQKSAFGSSVPRTFFSVQKE  
ACATPGPADYQEFWSHQGVGISDELPNLTNKYAAFLSRAKRTMKVPDMVIPAGSYDVHK  
SYEMSQVKHKYMPRSLVAKRKHASFLSATPRCLEKVTGDGPAAYNPVLKSCPIPLFV  
KASKRFESKEITPGPATYEISQEKKKGNLIGEMAADIM

>sp|Q96SI9|STRBP\_HUMAN Spermatid perinuclear RNA-binding protein OS=Homo sapiens GN=STRBP  
PE=1 SV=1

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ETEKKDEAGENYSKDQGGRTL CGVMRIGL VAKGLLIKDDMDLEL VLMCKDKPTETLLNT  
VKDNLPIQIQKLTEEKYQVEQCVNEASIIIRNTKEPTLTLKVILTSPLIRDELEKKDGEN  
VSMKDPDDLDRQKCLNALASLRHAKWFQARANGLKSCVIVLRILRDL CNRVPTWAPLKG  
WPLELICEKSIGTCNRPLGAGEALRRVMECLASGILLPGGPGLHDP CERDPTDALSYMTI  
QQKEDITHSAQHALRLSAFGQIYKVL EMDPLPSSKPFQKYSWSVTDKEGAGSSALKRPF  
DGLGDDKDPNKKMKRNL RKILDSKAIDL MNALMRLNQIRPGLQYKLLS QSGPVHAPVFTM  
SVDVDGTTYEASGPSKKTAKLHVAVKVLQAMGYPTGFDADIECMSSDEKSDNESKNETVS  
SNSSNNTGNTTETSSTLEVRTQGPILTASGKNPVMELNEKRRGLKYELISETGGSHDKR  
FVMEVEVDGQKFRGAGPNKKVAKASAAALAEKLFSGPNAANNKKKKIIPQAKGVVNTAV  
SAAVQAVRGRGRGTLTRGAFVGATAAPGYIAPGYGTPYGYSTAAPAYGLPKRMVLLPVMK  
FPTYVPVPHYSFF

>sp|Q7RTU9|STRC\_HUMAN Stereocilin OS=Homo sapiens GN=STRC PE=2 SV=1

MALSLWPLLLLLLLLLL SFAVTLAPTGPSLDPGLSFLKSLLSTLDQAPQGSLSRSRFF  
TFLANISSSFEPGRMGEGPVGEPPLQPPALRLHDFLVTLRGSPDWEPMLGLLGDM LALL  
GQEQTPRDFLVHQAGVLGGLVEVLLGALVPGGPPTPTRPPCTRDGPSDCVLAADWLP SLL  
LLEGTRWQALVQVQPSVDPTNATGLD GREAAHPFLQGLLGLLTPTGELGSKEALWGGLL  
RTVGAPLYAAFQEGLLRVTHSLQDEVFSILGQPEPDTNGQCQGGNLQQLLLWGV RHNL SW  
DVQALGFLSGSPPPPALLHCLSTGVPLPRASQPSAHISPRQRRAITVEALCENHLGPAP  
PYSISNFSIHLLCQHTKPATPQHPSTTAICQTAVWYAVSWAPGAQGWLQACHDQFPDEF  
LDAICSNLSFSALSGSNRRLVKRLCAGLLPPPTSCPEGLPPVPLTPDIFWGC FLENETLW  
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DTMYEVLVPFWPWLAGQCRISRGGNDTCFLEGLLGPLLPSLPPLGPSPLCLTPGP FLLGM  
LSQLPRCQSSVPALAHPTRLHYLLRLLTFLLGPGAGGAEAQGMLGRALLSSLPDNC SFW  
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EKSVWALQILVQAYLHMPENLQQLVLSAEREAQGF LTMLQGKLGKLGKLVPPSEEQAL  
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EQKEALAKRLLAPELFGVPAWPQELLWAVLPLLPHLPLENFLQLSPHQIQALEDSWPAA  
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LPVLQGTSVTPAQAVLLLRLLPRHDL SLEELCSLHLLLPGLSPTLQAIPRRVLVGACS  
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LLDLPIQLMDRLSNESIMLVVELVQRAPEQLLALTPLHQAALAERALQNLAPKETPVSGE  
VLETGLPLVGFLGTSTRQIPLQILLSHLSQLQGFC LGETFATELGWLLQESVLGKPEL  
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KKAALVAGVVRPAAEDLPEVPNCADVRGTFPAAWSATQIAEMELSDFEDCLTLFAGDPG  
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DGWSTQLRIVVSSFLRQSGRHVSHLDFVHLTALGYTLCGLRPEELQHISSWEFSQAALF  
LGTLHLQCSEEQLEVLAHLLVLPGGFGPISNWGPEIFTEIGTIAAGIPDLALSALLRGQI  
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>sp|O43815|STRN\_HUMAN Striatin OS=Homo sapiens GN=STRN PE=1 SV=4

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AADFSEDEDDDDVDGREKSVIDTSTIVRKKALPDSEGDRDTKEALKEFDLVTSEEGDNE  
SRSAGDGTWEEKEDQCLMPEAWNVDQGVITKLKEQYKKERKGGKGVKRPNRSKLQDMLAN  
LRDVELPSLQPSVGSPPSSRLPEHEINRADEVEALTFPPSSGKSFIMGADAEALESE  
LGLGELAGLTVANEADSLTYDIANNKDALRKTWNPKFTLRSHFDGIRALAFHPIEPVLIT  
ASEDHTLKMWNLQKTAPAKKSTSLDVEPIYTFRAHKGVPVLCVVMSSNGEQCYSGGTGLI  
QGWNTNPNIDPYDSYDPSVLRGPLLGHDTAVWGLAYSAAHQRLSCSADGTLRLWNTTE  
VAPALSVFNDTKELGIPASVDLVSSDP SHMVASFSKGYTSIFNMETQQRILTLESNVDTT  
ANSSCQINRVISHPTLPISITAHEDRHIKFYDNNTGKLIHSMVAHLEAVTSLAVDPNGLY  
LMSGSHDCSIRLWNLESKTCIQEFTAHRKKFEESIHDVAFHPSKCYIASAGADALAKVFV

>sp|P08842|STS\_HUMAN Steryl-sulfatase OS=Homo sapiens GN=STS PE=1 SV=2

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GGVKLTQHLAASPLCTPSRAAFMTGRYPVRSGMASWSRTGVFLFTASSGGLPTDEITFAK  
LLKDQGYSTALIGKWHLGMSCHSKTDFCHHPLHHGFNYFYGISLTNLRDCKPGEVSFTT  
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NCFMMRNYEIIQQPMSYDNLQRLTVEAAQFIQRNTETPFLVLVSYLVHTALFSSKDFA  
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NGIYKGGKANNWEGGIRVPGILRWPRVIQAGQKIDEPTSNDIFPTVAKLAGAPLPEDRI  
IDGRDLMPLLEGKSQRSDHEFLFHYCNAYLNAVRWHPQNSTSIWKAFFFTPNFNPVGSNG  
CFATHVCFCFGSYVTHHDPPLLFDISKDPRENRNPLTPASEPRFYEILKVMQEAADRHTQT  
LPEVPDQFSWNNFLWKPWLQLCCPSTGLSCQCDREKQDKRLSR

>sp|Q8IVW8|SPNS2\_HUMAN Protein spinster homolog 2 OS=Homo sapiens GN=SPNS2 PE=1 SV=2

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SGSVRRAPTGPPTPGCAATAKGPQAQPKPASLGRGRGAAAAILSLGNVLNYLDY  
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SWLRDMKALIRNRSYVFSSLATSAVSFATGALGMWIPLYLHRAQVVQKTAETCNSPPCGA  
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FISDLIRQSTKDSPLWEFLSLGYALMLCPFVVVLGGMFFLATALFFVSDRARAQQVQNQL  
AMPPASVKV

>sp|Q9NS25|SPNXB\_HUMAN Sperm protein associated with the nucleus on the X chromosome B1  
OS=Homo sapiens GN=SPANXB1 PE=2 SV=2

MGQQSSVRRLKRSVPCESEANEANEANKTMPETPTGSDPQPAPKKMKTSESSTILVVR  
YRRNVKRTSPEELLNDHARENINPDQMEEEEFIEITTERPKK

>sp|Q8N9U9|SPOT1\_HUMAN Putative uncharacterized protein SPANXA2-OT1 OS=Homo sapiens  
GN=SPANXA2-OT1 PE=5 SV=1

MASPFGRITDQKGRGHPAGSGGVEVNGGSARAASFSGGRRVLSGGGRTAFGGGGRTAFGD  
GGRTAFGVGGRTAFGGGGRTAFGGGGRTAFGVGGRTAFGGGERVSLLSPGWSALARSWLT  
ASSASRVQAILLPQPPE



>sp|P02549|SPTA1\_HUMAN Spectrin alpha chain, erythrocytic 1 OS=Homo sapiens GN=SPTA1 PE=1 SV=5

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ATSVELGEDWERTEVLHKKFEDFQVELVAKEGRVVEVNQYANECaeENHPDLPLIQSKQN  
EVNAAWERLRGLALQRQKALSNAANLQRFKRDVTEAIQWIKeEPVLTSEDYgKDLVASE  
GLFHSHKGLERNLAVMSDKVKELCAKAeKLTLShPSDAPQIQEMKEDLVSSWEHIRALAT  
SRYEKLQATYWYHRFSSDFDELsgWMNEKTAAINADELPTDVAGGEVLLDRHQHkHEID  
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FYRDSEQVDSWMSRQEAFLenEDLGNslGSAEALLQKHEDFEEAftAQEEKIITVDKTAT  
KLIGDDHYDSENikaIRDGLLARRDALREKAATRRRLKESLLLQKLYEDSDDLKNWINK  
KKKLADDEDYKDIQNLKSRVQKQVFEkelAVNKTQLENIQKTGQEMIEGGHYASDNVTT  
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EVQNRLRKHGLLESaVAARQDQVDILTDLAAyFEEIGHpDSKDIRARQESLVCrFEALKE  
PLATRKKKLLDLLHLQLICRDTEDEEAWIQETEPSATSTYLgKDLIASKKLLNRHRVILE  
NIASHEPRIQEITERGNKMVEEGHFAaedVASRVKSLNQNMESLRARAARRQNDLEANVQ  
FQQYLADLHEAETWIREKEPIVDNTNYGADEEAAGALLKKHEaFLDLNSFGDSMKALRN  
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DHQGIvPAVYVRRlaHDEFPMLPQRRREEPGNITQRQEQIENQYRSLLDRAEERRRRLQ  
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ADDLLFEGLLTPEGAQIRQELNSRWGSLQRLADEQRQLLgSAHAVEVFHREADDTKEQIE  
KKCQALSAADPGSDFSVQALQRRHEGFERDLVPLGDKVTILGETaERLSEShPDATEDL  
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LTGIEILLERHQEHRADMEAEAPTfQALEDFSAELIDSGHHasPEIEKKLQAVKLERDDL  
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VDQIVKKKDNVNKRFLNVQELAAAHKEKLKEAYALFQFFQDLdDEESWIEEKLIRVSSQD  
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QQERLPEITDLKDLISaQHNQSKAIEERYAALLKRWEQLEASAVHRQKLEKQLPLQK  
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CLLELDQQIKALGVPSSPYTWLTVEVLERTWKhLSDIIEEREQELQKEEARQVKNFEMCQ  
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DNLEDALILDIKYSTIGLaQQWDQLYQLGLRMQHNLQEQIQAKDIKGVSEETLKEFSTIY  
KHFDENLTGRLTHKEFRSCLRGLNYLPMVEEDEHEPKFEKFLDAVDPGRKGYVSLEDYT  
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>sp|Q01082|SPTB2\_HUMAN Spectrin beta chain, non-erythrocytic 1 OS=Homo sapiens GN=SPTBN1 PE=1 SV=2

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QFLKEQRVHLENMGSHDIVDGNHRLTLGLIWTIILRFQIQDISVETEDNKEKKSADALL  
LWCQMKTAGYPNVNIHNFTTSWRDGMFNLHKKHRPDLIDFDKLKKSNAHYNLQNAFNL  
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EKMIEKYESLASDLEWIEQTIIILNNRKFANSLVGVQQQLQAFNTYRTVEKPPKFTEKG  
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VVAVARELEAENYHDIKRITARKDNVIRLWEYLLELLRARRQRLEMNLGLQKIFQEMLYI  
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YIREQWANLEQLSAIRKKRLEEASLLHQFQADADDIDAWMLDILKIVSSSDVGHDEYSTQ  
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RETASELLMRLKDNRDQLKFLQDCQELSLWINEKMLTAQDMSYDEARNLHSHWLKHQAFM  
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SKESSPIPSPTSDRKAKTALPAQSAATLPARTQETPSAQMEGFLNRKHEWEAHNKKASSR  
SWHNVCVINNQMFGFYKDAKTAASGIPYHSEVPVSLKEAVCEVALDYKKKKHVFKLRLN  
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>sp|Q9NUV7|SPTC3\_HUMAN Serine palmitoyltransferase 3 OS=Homo sapiens GN=SPTLC3 PE=1 SV=3  
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LVGKGCLILSDELNHTSLVLGARLSGATIRIFKHNTQSLEKLLRDAVIYGQPRTRRAWK  
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>sp|Q9NRC6|SPTN5\_HUMAN Spectrin beta chain, non-erythrocytic 5 OS=Homo sapiens GN=SPTBN5  
PE=1 SV=2

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FCSSCGELQLWLEKQTVLLQRVQPQADTLEVMQLKYENFLTALAVGKGLWAEVSSSAEQL  
RQRYPGNSTQIQRQEEELSQRWGQLEALKREKAVQLAHSVEVCSFLQECGPTQVQLRDVL  
LQLEALQPGSSEDTHALQLAQKKTLLVLRVVHFLQSVVVKVEEPGYAESQPLQGQVETL  
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LREHQDLLEEIHLWQERLQQLDAQSQPMAALDCPDSQEVNPTLRVLGQQGQELKVLWEQR  
QQWLQEGLELQKFGREVDGFTATCANHQAWLHLDNLGEDVREALSLLQHQHREFGRLLSTL  
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SRRPCGQEDIQTRLQGLRSKWEALNRKMTERGDELQQAGQEQQLLRQLQDAKEQLEQLEG  
ALQSSETGQDLRSSQRLQKRHQQLESESRTLAAKMAALASMAHGMAASPAILEETQKHLR  
RLELLQGHLAIRGLQLQASVELHQFCHLSNMELSWVAEHMPHGSPTSYTECLNGAQLHR  
KHKELQVEVKAHQGQVQVRVLSGRSLAASGHPQAQHIVEQCQELEGHWAELERACEARAQ  
CLQQAVTFQQYFLDVSELEGWVEEKRPLVSSRDYGRDEAATLRLINKHQALQEELAIYWS  
SMEELDQTAQTLTGPEVPEQQRVVQERLREQLRALQELAATRDRELEGTLLRHEFLREAE  
DLQGWLASQKQAAKGESLGEDPEHALHLCTKFAKFQHQVEMGSQRVAACRLLAESLLER  
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KLSAHQWLRAELEAREKLWQQATQLGQQALLAAGTPTKEVQEELRALQDQRDQVYQTWAR  
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QDKKEAALRERLKLRRPRVRDRLPILLQRRMRVKELAESRGHALHASLLMASFTQAATQ  
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PRAGEVSQRLQGLRKHWEDLRQAMALRGQELEDRRNFLEFLQRVDLAEAWIQEKEVKMN  
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SWTDSISLARSTGQQLTAGHPFSSDIRQVLAGLEQELSSLEGAWQEHQLQLQQAELQL  
FLSSVEKMERWLCSEKEDSLASEGLWDPLAPMEPLLWKHKMLEWDLEVQAGKISALEATAR  
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>sp|Q9BT56|SPXN\_HUMAN Spexin OS=Homo sapiens GN=SPX PE=1 SV=1  
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>sp|Q96JX3|SRAC1\_HUMAN Protein SERAC1 OS=Homo sapiens GN=SERAC1 PE=1 SV=1  
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LARSEESDLRFLLPPPLPSLKEDSSTEELRQLLASLPQTELEDCIQYFTSLALSESSQ  
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KLRAAGVGDRPVVWISHSMGGLLVKKMLLEASTKPEMSTVINNTRGIIFYSVPHHGSRLA  
EYSVNIRYLLFPSLEVKELSKDSPALKTLQDDFLEFAKDNFQVLNFVETLPTYIGSMIK  
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>sp|Q8TDW4|ST7L\_HUMAN Suppressor of tumorigenicity 7 protein-like OS=Homo sapiens GN=ST7L  
PE=2 SV=1

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MCARKLGRIREAVKIMRDLMEFPPLTMLNIHENLLESLELQAYPDVQAVLAKYDDISL  
PKSAAICYTAALLKTRTVSEKFSPETASRRGLSTAEINAVEAIHRAVEFNPHVPKYLLEM  
KSLILPPEHILKRGDSEAIYAFFHLQHWKRIEGALNLLQCTWEGTFRMIPYPLEKGHLF  
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>sp|Q9Y3M8|STA13\_HUMAN StAR-related lipid transfer protein 13 OS=Homo sapiens GN=STARD13  
PE=1 SV=2

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KEACDWLRAAGFPQYAQLYEDSQFPINIVAVKNDHDFLEKDLVEPLCRRNLTLNKCASMK  
LDVNFQRKKGDDSEEDLCISNKWTFQRTSRRWSRVDDLTYLLPRGDRNGSPGGTGMRNT  
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DLFPHLDDILQHVNLQEVVDDWSKDVLPQLQTHDTLVGEPGLSTFPSPNQITLDFEGNS  
VSEGRTPSDVERDVTSLNESEPPGVRDRRDSGVGASLTRPNRRLRWNSFQLSHQPRPAP  
ASPHISSQTASQLSLLQRFSLRLTAIMEKHSMNKHGWTWSVPKFMKRMKVPDYKDKAV  
FGVPLIVHVQRTGQPLPQSIQALRYLRSNCLDQVGLFRKSGVKSRIHALRQMNENFPEN  
VNYEDQSAYDVADMVKQFFRDLPEPLFTNKLSETFLHIYQYVSKEQRLQAVQAAIILLAD  
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ESGATFHTYLNHLIQGLQKEAKEKFKGWVTCSTDNTDLAFKKVGDGNPLKLWKASVEVE  
APPSVVLNRVLRERHLWDEDFVQWKVETLDRQTEIYQYVLNSMAPHPSRDFVVLRTWKT  
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>sp|P52630|STAT2\_HUMAN Signal transducer and activator of transcription 2 OS=Homo sapiens  
GN=STAT2 PE=1 SV=1

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FTKRESPPGKLPFWTWLKDILELVHDHLKDLWNDGRIMGFVSRSQERRLLKKTMSGTFLL  
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LRFLYPRIPRDEAFGCYYQEKVNLQERRKYLKHRLIVVSNRQVDELQQPLELKPEPELES  
LELELGLVPEPELSLDLEPLLKAGLDLGPESVLESTLEPVIEPTLCMVSQTVPEPDQG  
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>sp|P40763|STAT3\_HUMAN Signal transducer and activator of transcription 3 OS=Homo sapiens  
GN=STAT3 PE=1 SV=2

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TAAQQGGQANHPTAAVVTEKQKMLEQHLQDVRKRVQDLEQKMKVVENLQDDDFDNFKTLK  
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HRPMLEERIVELFRNLKMSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPENY  
QLKIKVCIDKSDGVAALGRSRFNILGTNTKVMNEESNNGSLAEFKHLTLREQRCGN  
GGRANCASLIVTEELHLITFETEVYHQGLKIDLETHSLPVVVISNICMPNAWASILWY  
NMLTNNPKNVNFFTKPPIGTWDQVAEVLWSWQFSSTTKRGLSIEQLTTLAEKLLGPGVNYS  
GCQITWAKFCKENMAGKGSFVWVLDNIIDLVKYILALWNEGYIMGFISKERERAILST  
KPPGTFLRRFSESSKEGGVTFTWVEKDISGKTQIQSVEPYTKQQLNMSFAEIMGYKIM  
DATNILVSPLVLYPDIPKEEAFGKYCRPESQEHPEADPGSAAPYLKTKFICVTPPTCSN  
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>sp|P02808|STAT\_HUMAN Statherin OS=Homo sapiens GN=STATH PE=1 SV=2  
MKFLVFAFILALMVSMIGADSSEKFLRRIGRFGYGYGPYQVPPEQPLYPQPYQPQYQQY  
TF

>sp|P46977|STT3A\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase  
subunit STT3A OS=Homo sapiens GN=STT3A PE=1 SV=2

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PLFSSFTTIVTYHLTKELKDAGAGLLAAAMIAVVPGYISRSVAGSYDNEGIAIFCMLTY  
YMWIKAVKTGSICWAAKALAYFYMVSSWGGYVFLINLIPLHVLVLMLTGRFSHRIYVAY  
CTVYCLGTILSMQISFVGFQPVLSSEHMAAFGVFGLCQIHAFVDYLRSKLNPQQFEVLF  
SVISLVGVFLLTVGALLMLTGKISPWTRGFYSLLDPSYAKNNIPIIASVSEHQPTTWSSY  
YFDLQLLVFMFPVGLYYCFSNLSARIFIIIMYGVTSMYFSAVMVRMLVLAPVMCILSGI  
GVSQVLSTYMKNLDIRPDKSKKQDSTYPIKNEVASGMILVMAFFLITYTFHSTWVTS  
EAYSSPSIVLSARGGDGSRIFDDFREAYYWL RHNTPEDAKVMSSWDYGYQITAMANRTI  
LVDNNTWNNTHISRVGQAMASTEELKAYEIMRELDVSYVLVIFGGLTGYSSDDINKFLWMV  
RIGGSTDTGKHIEKENDYYTPTGEFRVDREGSPVLLNCLMYKCYRFGQVYTEAKRPPGF  
DRVRNAEIGNKDFELDVLEEAYTTEHWLVRIYKVKDLNRLSRT

>sp|Q8TCJ2|STT3B\_HUMAN Dolichyl-diphosphooligosaccharide--protein glycosyltransferase  
subunit STT3B OS=Homo sapiens GN=STT3B PE=1 SV=1

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EFLNWFDERAWYPLGRIVGGTVYPGLMITAGLIHWILNTLNTVHIRDVCVFLAPTFSGL  
TSISTFLLTRELWNQAGLLAACFIAIVPGYISRSVAGSFDNEGIAIFALQFTYYLWVKS

VKTGSVFWTMCCLSYFYMVSAWGGYVFIINLIPLHVFVLLLMQRYSKRVYIAYSTFYIV  
GLILSMQIPFVGFQPIRTSEHMAAAGVFALLQAYAFLLQYLRDRLTKQEFQTLFFLGVSLA  
AGAVFLSVIYLTGTGYIAPWSGRFYSLWDTGYAKIHIPIIASVSEHQPTTWVSFFFDLHI  
LVCTFPAGLWFCIKNINDERVFVALYASAVYFAGVMVRLMLTLTPVVCMLSAIAFSNVF  
EHYLGDDMKRENPPVEDSSDEDDKRNQGNLYDKAGKVRKHATEQEKTEEGLGPNIKSIVT  
MLMLMLMMFAVHCTWVTSNAYSSPSVVLASYNHDGTRNILDFFREAYFWLRQNTDEHAR  
VMSWWDYGYQIAGMANRTTLVDNNTWNNSHIALVGKAMSSNETAAYKIMRTLDVDYVLVI  
FGGVIGYSGDDINKFLWMVRIAEGEHPKDIRESDYFTPQGEFRVDKAGSPTLLNCLMYKM  
SYRFGEMQLDFRTPPGFDRTRNAEIGNKDIKFKHLEEAFTSEHLVRIYKVKAPDNRET  
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>sp|P32856|STX2\_HUMAN Syntaxin-2 OS=Homo sapiens GN=STX2 PE=1 SV=3

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LSAPNPEGKIKEELEDLNKEIKKTANKIRAKLKAIEQSFDQDESGNRTSVDLRIRRTQHS  
VLSRKFEAMAENEATLFRERSKGRIQRQLEITGRTTDDLEEMLESKPSIFTSDI  
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>sp|O00186|STXB3\_HUMAN Syntaxin-binding protein 3 OS=Homo sapiens GN=STXBP3 PE=1 SV=2

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VVENIYKNREPVRQMKALYFITPTSKSVDCFLHDFASKSENKYKAAYIYFTDFCPDNLN  
KIKASCSKSIRRCKEINISFIPHESQVYTLDPDAFYCYSPDPGNAKGKDAIMETMADQ  
IVTVCATLDENPGVRYKSKPLDNASKLAQLVEKKLEDYKIDEKSLIKGKTHSQLLIIDR  
GFDPVSTVLHELTFQAMAYDLLPIENDTYKYKTDGKEKEAILEEEDDLWVRIRHRHIAVV  
LEEIPKLMKEISSTKKATEGKTSLSALTQLMKKMPHFRKQITKQVVHLNLAEDCMNKF  
NIEKLCKTEQDLALGTAEGQKVKDSMRVLLPVLLNKNHNDCKIRAILLYIFSINGTTE  
ENLDRLIQNVKIENESDMIRNWSYLGVPVIPSQQGKPLRKDRSAEETFQLSRWTPFIKD  
IMEDAIDNRDLSKEWPYCSQCPAVWNGSGAVSARQKPRANYLEDKNGSKLIVFVIGGIT  
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>sp|Q8NBK3|SUMF1\_HUMAN Sulfatase-modifying factor 1 OS=Homo sapiens GN=SUMF1 PE=1 SV=3

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HGSSAAAHRYREANAPGPVGERQLAHSKMVPIPAGVFTMGTDPPQIKQDGEAPARRVT  
IDAFYMDAYEVSNTFEFEKFNSTGYLTEAEKFGDSFVFEGMLSEQVKTNIQQAVAAAPWW  
LPVKGANWRHPEPDSTILHRDPVHLVSWNDAYCTWAGKRLPTEAEWEYSCRGGLH  
NRLFPWGNKLQPKGQHYANIWQGEFPVTNTGEDGFQGTAPVDAFPNGYGLYNIVGNAWE  
WTSDWWTVHHSVEETLNPKGPPSGKDRVKKGGSYCHRSYCYRCAARSQNTPDSSASN  
LGFRCAADRLPTMD

>sp|P63165|SUMO1\_HUMAN Small ubiquitin-related modifier 1 OS=Homo sapiens GN=SUMO1 PE=1 SV=1

MSDQEAKPSTEDLGDKKEGEYIKLVIGQDSSEIHFVKVMTTHLKKLKESYCQRQGVPMN  
SLRFLFEGQRIADNHTPKELGMEEEDVIEVYQEQTGGHSTV

>sp|P55854|SUMO3\_HUMAN Small ubiquitin-related modifier 3 OS=Homo sapiens GN=SUMO3 PE=1 SV=2

MSEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFR  
FDGQPINETDTPAQLEMEDEDIDVFQQQTGGVPESSLAGHSF

>sp|Q8IYB8|SUV3\_HUMAN ATP-dependent RNA helicase SUPV3L1, mitochondrial OS=Homo sapiens  
GN=SUPV3L1 PE=1 SV=1

MSFSRALLWARLPAGRQAGHRAAICSALRPHFGPFGVLGQVSVLATASSSASGGSKIPN  
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HQAQISFRNYIMQSHSLDVDIHIVLNDICFGAAHADDLFPFFLRHAKQIFPVLDCKDDL  
KISDLRIPPNNWYPDARAMQRKIIFHSGPTNSGKTYHAIQKYFSAKSGVYCGPLKLLAHEI  
FEKSNAAGVPCDLVTGEERTVQPNGKQASHVSVCTVEMCSVTTPYEVAVIDEIQMIRDPA  
RGWAWTRALLGLCAEEVHLCGEPAAIDLVMELMYTTGEEVEVRDYKRLTPISVLDHALES  
LDNLRPGDCIVCFSKNDIYSVSRQIEIRGLESAYIYGSLLPGTKLAQAKKFNDPNDPCKI  
LVATDAIGMGLNLSIRRIIFYSLIKPSINEKGERELEPITTSQALQIAGRAGRFSRFE  
GEVTTMNHEDLSLKEILKRPVPIRAAGLHPTAEQIEMFAYHLPDATLSNLIDIFVDFS  
QVDGQYFVCNMDDFKFSAEIQHIPLSLRVRYVFTAPINKKQPFVCSLLQFARQYSRN  
EPLTFAWLRRYIKWPLPPKNIKDLMLEAVHDVLDLYLWLSYRFMDMFPDASLIRDLQK  
ELDGI IQDGVHNITKLIKMSETHKLLNLEGFPSGSQSRLSGTLKSQARRTRGTKALGSKA  
TEPPSPDAGELSLASRLVQQGLLTPDMLKQLEKEWMTQQTEHNKEKTESGTHPKGTRRKK  
KEPDS

>sp|Q496J9|SV2C\_HUMAN Synaptic vesicle glycoprotein 2C OS=Homo sapiens GN=SV2C PE=1 SV=1

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RELESERRADEEEELAAQYELIIQECGHGRFQWALFFVLGMALMADGVEVFVVGFLPSAE  
TDLCIPNSGSGWLGSIVYLGMVGAFFWGLADKVGRKQSLICMSVNGFFAFLSSFVQG  
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IPHYGWSFSMGSAYQFHSWRVFIIVCALPCVSSVVALTFMPESPRFLLEVKGHDEAWMIL  
KLIHDTNMRARGQPEKVFTVNKIKTPKQIDELIEIESDTGTWYRRCFVRIRELYGIWLT  
FMRCFNYPVRDNTIKLTIWFTLSFGYYGLSVWFPDVIKPLQSDEYALLTRNVERDKYAN  
FTINFTMENQIHTGMEYDNGRFIVGKFKSVTFKDSVFKSCTFEDVTSVNTYFKNCTFIDT  
VFDNTDFEPYKFIDSEFKNCSFFHNKTGCQITFDDYSAYWIYFVNFLGTLAVLPGNIVS  
ALLMDRIGRLTMLGSGMVLGISCFFLWFGTSESMIGMLCLYNGLTISAWNLDVVTVE  
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TRTQVLM

>sp|095425|SVIL\_HUMAN Supervillin OS=Homo sapiens GN=SVIL PE=1 SV=2

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RKVRTRSLSDFTGPPQLQALKYKDPASRRELELPSSKTEGPYGEISMLDTKVSVAQLRSA  
FLASANACRRPELKSRSVERAEGPLPTGVERERGSRKPRRYFSPGESRKTSEFRFTQPI  
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RLQASAHQKALAKDQTNEGKELAEQGEPDSSSTLSLAEKLALFNKLSQPVSKAISTRNRID  
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DHNASATDYKFSSSIENS DSPVRSILKSQAWQPLVEGSENKGMLREYGETESKRALTGRD  
SGMEKYGSFEEAEASYPIILNRAREGDSHKESKYAVPRRGS LERANPPI THLGDEPKESFM  
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VSWKPQDSSEQPQEKLCKNPCAMFAAGEIKTPTGEGLLDSPSKTMSIKERLALLKKS GEE  
DWRNRLSRRQEGGKAPASSLHTQEAGRSLIKKRVTESRESQMTIEERKQLITVREEAWKT  
RGRGAANDSTQFTVAGRMVKKGLASPTAITPVASPICGKTRGTPVSKPLEDIEARPDMQ  
LES DLKLDRL ETFLRRLNNKVGGMHETVLTVTGKSVKEVMKPDDDETFAKFYRSVDYNMP  
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QRLNVAFMESKRMKEVMSSNSNFSEVTLAGLASKENFSNVLSRVNLTEQNSNNSAVPY  
KRLMLLQIKGRRHVQTRLVEPRASALNSGDCFLLLSPHCCFLWVGEFANVIEKAKASELA  
TLIQTKRELGCRATYIQTI EEGINTHTHAAKDFWKLLGGQTSYQSAGDPKEDELYEAAII  
ETNCIYRLMDDKLPDDDYWGKIPKCSLLQPK EVLVFDGSEVYVWHGKEVTLAQRKIAF  
QLAKHLWNGTFDYENC DINPLDPGECNPLIPRKQGGRPDW AIFGRLTEHNETILFKEKFL  
DWTELKRSNEKNPGELA QHKEDPRTDV KAYDVTRMV SMPQT TAGTILDGVNVGRGYGLVE  
GHDRRQFEITSVSVDVWHILEFDYSRLPKQSIGQFHEGDAYVVKWFMVSTAVGSRQKGE  
HSVRAAGKEKCVYFFWQGRHSTVSEKGT SALMTVELDEERGAQVQVLQGKEPPCFLQCFQ  
GGMVVHSGRREEEENVQSEWRLYCVRGEVPVEGNLLEVACHCSSLRSRTSMVVLNVNKA  
LIYLWHGCKAQAHTKEVGRTAANKIKEQCPL EAGLHSSSKVTIHECDEGSEPLGFWDALG  
RRDRKAYDCMLQDPGSFNFAPRLFILSSSSG DFAATEFVYPARAPSVSSMPFLQEDLYS  
APQPALFLVDNHHEVYLWQGWPIENKITGSARIRWASDRKSAMETVLQYCKGKNLKKPA  
PKSYLIHAGLEPLTF TNMFPSWEHREDIAEITEMDTEVSNQITLVEDVLAKLCKTIYPLA  
DLLARPLPEGVDPLKLEIYLTDEDFEFALDMTRDEYNALPAWKQVNLKKAKGLF

>sp|Q9BQ49|SMIM7\_HUMAN Small integral membrane protein 7 OS=Homo sapiens GN=SMIM7 PE=1 SV=2

MIGDILLFGTLLMNAGAVLNFKLKKKDTQGFGEESREPSTGDNIREFLLSLRYFRIFIAL  
WNIFMMFCMIVLFGS

>sp|H3BMG3|SMKR1\_HUMAN Small lysine-rich protein 1 OS=Homo sapiens GN=SMKR1 PE=4 SV=1  
MPAKGKKGKGQKSHGKKQKKPEVDILSPAAMLNLYYIAHNVADCLHLRGFHWPGAPK GK  
KGRSK

>sp|Q16637|SMN\_HUMAN Survival motor neuron protein OS=Homo sapiens GN=SMN1 PE=1 SV=1  
MAMSSGGSGGGVPEQEDSVLFRRGTGQSDDSDIWDDTALIKAYDKAVASF KHALKNGDIC  
ETSGKPKTTPKRKPAKKNKSSQKNTAASLQQWKVGDKCSAIWSEDGCIYPATIASIDFKR  
ETCVVYTYGYNREEQNLSDLLSPICEVANNIEQNAQENENESQVSTDESENSRSPGNKS  
DNIKPKSAPWNSFLPPPPMPGPRLGPGKPLKFNGPPPPPPPPHLLSCWLPPFPSPG  
PIIPPPPPICPDSLDDADALGSM LISWYMSGYHTGYMGFRQNQKEGRCSHSLN

>sp|Q9HAU4|SMUF2\_HUMAN E3 ubiquitin-protein ligase SMURF2 OS=Homo sapiens GN=SMURF2 PE=1 SV=1

MSNPGGRRNGPVKLRLTVLCAKNLVKKDFFRLPDPFAKVVDGSGQCHSTDTVKNLTDPK  
WNQHYDLYIGKSDSVTISVWNHKKIHKKQGAGFLGCVRLLSNAINRLKDTGYQRLDLCKL  
GPNNDNTVRGQIVVSLQSRDRIGTGGQVVDCSRLFDNDLPDGEERRTASGRIQYLNHIT  
RTTQWERPTRPASEYSSPGRPLSCFVDENTPISGTNGATCGQSSDPRLAERRVRSQRHRN  
YMSRTHLHTPPDLPEGYEQR TTQQGQVYFLHTQTGVSTWHDPRVPRDLSNINCEELGPLP

PGWEIRNTATGRVYFVDHNNRTTQFTDPRLSANLHLVLNRQNQLKDQQQQQVVS LCPDDT  
ECLTVPRYKRD LVQKLKILRQELSQQQPQAGHCRIEVSREEIFEESYRQVMKMRPKDLWK  
RLMIKFRGEEGLDYGGVAREWLYLLSHEMLNPYYGLFQYSRDDIYTLQINPDSAVNPEHL  
SYHFHVGRIMGMAVFHGHYIDGGFTLPFYKQLLGKSITLDDMELVDPDLHNSLVWILEND  
ITGVL DHTFCVEHNAYGEIIQHELKPNGKSI PVNEENKKEYVRLYVNRWFLRGIEAQFLA  
LQKGFNEVIPQHLLKTFDEKELELIICGLGKIDVNDWKVNTRLKHCTPDSNIVKWFVKAV  
EFFDEERRARLLQFVTGSSRPVLQGFKALQGAAGPRLFTIHQIDACTNNLPKAHTCFNRI  
DIPPYESYEKLYEKLTAIETCGFAVE

>sp|Q6IEE8|SN12L\_HUMAN Schlafen family member 12-like OS=Homo sapiens GN=SLFN12L PE=2  
SV=4

MDLARKEFLRGNGLAAGKMNISIDLDTNIAELVLNVGRVTLGENNRKKMKDCQLRKQQNE  
NVSRAVCALLNSGGGVIAEVENKGYSYKKGIGLDLENSFSNMLPFVPNFLDFMQNGNY  
FHIFVKSWSLETSGPQIATLSSSLYKRDVTSAKVMNASAALEFLKMEKTGGRAYLRPEF  
PAKRACVDVQEESNMEALAADFFNRTELGYKEKLTFTESTHVEIKNFSTEKLLQRITEIL  
PQYVSFAFANTDGGYLFVGLNEDKEVIGFKAESYLTKEEVTKNSIGKLPVHHFCVEKGT  
INYLCKFLGVYDKGRLCGYVYALRVERFCCAVFAKKPDSWHVKDNRVKQLTEKEWIQFMV  
DSEPVCEELPSPASTSSPVQSYPLEREYNFKIQPLRYHLPGLSEKITCAPKTFCRNLS  
QHEGLKQLICEEMGSVNKGSLIFSRWSLDLGLQENHKVLC DALLISQDKPPVLYTFH MV  
QDEEFKDYSTQTAQTLKQKLAKIGGYTKKVCVMKIFYLSPGKTSQYDLNSQVIYPES  
YYWTTAQTMKDLEKALSNILPKENQIFLVCLFRFCLFVCWFVCFFLR

>sp|095863|SNAI1\_HUMAN Zinc finger protein SNAI1 OS=Homo sapiens GN=SNAI1 PE=1 SV=2

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPEILNPTASLPMLI  
WDSVLAPQAQPIAWASRLQESPRVAELTSLSDEDSGKGSQPPSPSPAPSSFSSTSVSS  
LEAEAYAAFPGLGQVPKQLAQLSEAKDLQARKAFNCKYCNKEYLSLGALKMHRSHTLPC  
VCGTCGKAFSRPWLLQGHVRTHTGEKPFSCPHCSRAFADRSNLRAHLQTHSDVKKYQCQA  
CARTFSRMSLLHKHQESGCSGCPR

>sp|Q9Y6H5|SNCAIP\_HUMAN Synphilin-1 OS=Homo sapiens GN=SNCAIP PE=1 SV=2

MEAPEYLDLDEIDFSDDISYSVTSLKTIPELCRRCDTQNE DRSVSSSSWNCGISTLITNT  
QKPTGIADVYSKFRPVKRVSP LKHQPETLENNESDDQKNQKVVEYQKGGESDLGPQPQEL  
GPGDGVGGPPGKSSEPSTSLGELEHYDLMD EILDVPYIKSSQQLASFTKVTSEKRILGL  
CTTINGLSGKACSTGSSESSSSNMAPFCVLSPVKSPHLRKASAVIHDQHKLSTEETEISP  
PLVKGSAYEPENQSKDFLNKTFSDPHGRKVEKTPDCQLRAFHLQSSAAESKP EEQVSG  
LNRTSSQGPEERSEY LKKVKSILNIVKEGQISLLPHLAADNLDKIHDENGNNLLHIAASQ  
GHAEC LQHLTSLMGEDCLNERNTEKLTPAGLAIKNGQLECVRWMVSETEAIAELSCSKDF  
PSLIHYAGCYGQEKILLWLLQFMQE QGISLDEVDQDGNSAVHVASQHG YLGC IQTLVEYG  
ANVTMQNHAGEKPSQSAERQGHTLCSRYLVVETCMSLASQVVKLTQQLKEQTVERVTLQ  
NQLQQFLEAQKSEGKSLPSSPSSPSPASRKSQWKSPDADDDSVAKSKPGVQEGIQVLGS  
LSASSRARPKAKDESDKILRQLLGKEISENVCTQEKLSLEFQDAQASSRNSKKIPLEKR  
ELKLARLRQLMQRSLSESDTDSNNESEDPKTPVRKADRPRPQPIVESVESMDSAESLHLM  
IKKHTLASGGRRFPFSIKASKSLDGHSPTSSESSEPDLESQYPGSGSIPPNQPSGDPQQ  
PSPDSTAAQKVATSPKSALKSPSSKRRTSQNLKLRVTFEPPVVQMEQPSLELNGEKDKDK  
GRTLQRTSTSNESGDQLKRPFGAFRSIMETLSGNQNNNNNYQAANQLKTSTLPLTSLGRK  
TDAKGNPASSASKGNKAA

>sp|O94964|SOGA1\_HUMAN Protein SOGA1 OS=Homo sapiens GN=SOGA1 PE=1 SV=2

MLEMRDVYMEEDVYQLQELRQQLDQASKTCRILQYRLRKAERRSLRAAQTGQVDGELIRG  
LEQDVKVSKDISMRLHKELEVVEKKRARLEEENEELRQRLIETELAKQVLQTELERPREH  
SLKKRGRTRSLGKADKTLVQEDSADLKQQLHFAKEESALMCKKLTAKENDSMKEELLK  
YRSLYGDLSALSAEELADAPHSRETELKVHLKLVEEEANLLSRRIVELEVENRGLRAEM  
DDMKDHGGCGGPEARLAFSALGGGECGESLAELRRHLQFVEEEAELLRRSSAELEDQNK  
LLLNELAKFRSEHELDVALSEDSVSEPSQEELAAAKLQIGELSGKVKKLQYENRVLL  
SNLQRCDLASCQSTRPMELEDAEAGDSAQCVPAPLGETHESHAVRLCRAREAEVLPGLRE  
QAALVSKAIDVLVADANGFTAGLRLCLDNECADFRLHEAPDNSEGPRDTKLIHAILVRLS  
VLQQELNAFTRKADAVLGCSVKEQQESFSSLPPLGSQGLSKEILLAKDLGSDFPDFRD  
LPEWEPRIREAFRTGDLDSKPDPSRFRPYRAEDNDSYASEIKELQLVLAEAHDSLRLGLQ  
EQLSQRERQLRKEEADNFNQMVQLKEDQQRALLRREFELQSLSLQRRLEQKFWSEQKNML  
VQESQQFKHNFLLFMKLRWFLKRWRQGVLPSEGDDFLEVNSMKELYLLMEEEEINAQH  
SDNKA CTGDSWTQNTPN EYIKTLADMKVTLKELCWLLRDERRGLTELQQQFAKAKATWET  
ERAELKGHTSQMELKTGKGAGERAGPDWKAALQREREEQQHLLAESYSAVMELTRQLQIS  
ERNWSQEKQLQLVERLQGEKQQVEQQVKELQNRLSQLQKAADPWVLKHSELEKQDNSWKET  
RSEKIHDK EAVSEVELGGNGLKRTKSVSSMSEFESLLDCSPYLAGGDARGKKLPNNPAFG  
FVSSEPGDPEKDTKEKPGLSSRDCNHLGALACQDPPGRQMQRSYTAPDKTGIRVYYSPPV  
ARRLGVPVVDHKEGKIIIEPGFLFTTAKPKESA EADGLAESSYGRWLCNFSRQRLDGGS  
GSPSAAGPGFPAALHDFEMSGNMSDDMKEITNCVRQAMRSGSLERKVKSTSSQTVGLASV  
GTQTIRT VSVGLQTDPPRSSLHGKAWSRSSSLVSVRSKQISSSLDKVHSRIERPCCSPK  
YGPPLQRRSVSKLDSSKDRSLWNLHGKQNGSAWARSTTRDSPVLRNINDGLSSLFSV  
VEHSGSTESVWKLGMSETRAKPEPPKYGIVQEFFRNVCGRAPSTSSAGEEGTKKPEPLS  
PASYHQPEGVARIILNKA AKLGSSEEVRLTMLPQVGKDGVL RDGDGAVVLPNEDAVCDCS  
TQSLTSCFARSSRSAIRHSPSKCRLHPSESSWGGEERALPPSE

>sp|P01242|SOM2\_HUMAN Growth hormone variant OS=Homo sapiens GN=GH2 PE=1 SV=3

MAAGSRTSLLLAFGLLCLSWLQEGSAFPTIPLSRLFDNAML RARRLYQLAYDTYQEFEEA  
YILKEQKYSFLQNPQTSLCFSEIPTPSNRVKTQQKSNLELLRISLLLIQSWLEPVQLLR  
SVFANSLVYGASDSNVYRHLKDLEEGIQTLMWRL EDGSPRTGQIFNQSYSKFDTKSHNDD  
ALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF

>sp|Q9BQB4|SOST\_HUMAN Sclerostin OS=Homo sapiens GN=SOST PE=1 SV=1

MQLPLALCLVCLLVHTAFRVVEGGWQAFKNDAT EIIPELGEYPEPPPELENNKTMNRAE  
NGGRPPHHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPVTELVCSGQCGPARLLPNAIG  
RGKWWRPSPGPDFRCIPDRYRAQRVQLLCPGGEAPRARKVRLVASCKCKRLTRFHNQSELK  
DFGTEAARPQKGRKPRPRARSAKANQAELENAY

>sp|POCG40|SP9\_HUMAN Transcription factor Sp9 OS=Homo sapiens GN=SP9 PE=3 SV=1

MATSI LGEEPRFGTTPLAMLAATCNKIGNTSPLTTLPESSAFAGGFGHPWKRSSSSCNLG  
SSLSGFAVATGGRGSGGLAGGSGAANS AFCLASTSPTSSAFSSDYGGLFSNSAAAAAAA  
GVSPQEAGGQSAFISKVHTTAADGLYPRVGMAHPYESWYKSGFHSTLAAGEVTNGAASSW  
WDVHSSPGSWLEVQNPAGGLQSSLHSGAPQASLHSQLGTYNPDFSSLTHSAFSSTGLGSS  
AAAASHLLSTSQHLLAQDGFKPVLP SYSDSSAAVAAAAASAMISGAAAAAGGSSARSAR  
RYSGRATCDCPNCQEAERLGPAGASLRRKGLHSCHIPGCGKVYGKTSHLKAHLRWHTGER  
PFVCNWLFCGKRFTRSDELQRHLRTHTGEKRFACPV CNKRFMRSDHLSKHIKTHNGGGGG  
KKGSDSDTDASNLETPRSESPDLILHDSGVSA AAAAAAAAAAAAAAAAAASAGGKEAASG  
PNDS

>sp|Q86W54|SPA24\_HUMAN Spermatogenesis-associated protein 24 OS=Homo sapiens GN=SPATA24  
PE=1 SV=2

MATPLGWSKAGSGSVCLALDQLRDVIESQEELIHQLRNVMLQDENFVSKEEFQAVEKKL  
VEEKAAHAKTKVLLAKEEEKLQFALGEVEVLSKQLEKEKLAFKALSSVSKVLQESSKK  
DQLITKCNEIESHIIKQEDILNGKENEIKELQQVISQQKQIFRNHMSDFRIKQQESYMA  
QVLDQKHKKASGTRQARSHQHPREK

>sp|Q8N4H0|SPA6L\_HUMAN Spermatogenesis associated 6-like protein OS=Homo sapiens  
GN=SPATA6L PE=2 SV=2

MPLEVVELQIRAI SCPGVFLPGKQDVYLGVYLMNQYLETNSFP SAFPIMIQESMRFEKV  
FESA VDPGAVVDLLEMWDELA YEENTRDFLFPEPKLTPSHPRRCREVLMTALGFPGIA  
PKIEFSTRTAIRECVFLHRNRFLEERHESRRPLST SHEPIFPLNTIKMKLKENNLNRLPK  
GMQARAPSQYSTRHFFQDQPAQLNLGNNFKISGGSKPPFVRHVDSAKPFGENISEHHLR  
RSRRKSKFSDFPFPTRRASSLDSLAANVKV IKEPDERIVLRSDSSSCLDSSQFGKSSSSK  
QGDADFHGKASFATYQHSTSPGPLDQPLLRRERFHPGSQSTWKN IHERVCSLLTSHRAQLH  
QNKEDSTSEVN YIIERPSYPLKKYSLHEQRYF

>sp|Q86WD7|SPA9\_HUMAN Serpin A9 OS=Homo sapiens GN=SERPINA9 PE=1 SV=3

MASYLYGVLF AVGLCAPIYCVSPANAPSAYPRPSSTKSTPASQVYSLNTDFAFRLYRRLV  
LETPSQNIFFPSPSVSTSLAMLSLGAHSVTKTQILQGLGFNLTHTPESA IHQGFQHLVHS  
LTVPSKDLTLKMGSALFVKKELQLQANFLGNVKRLYEA EVFSTDFSNP SIAQARINSHVK  
KKTQGGKVVDIIQGLDLLTAMVLVNHIFFKAKWEKPFHPEYTRKNFPFLVGEQVTVHVPMM  
HQKEQFAFGVDTEL NCFVLQMDYKGDVAFFVLPSKGKMRQLEQALSARTLRKWSHSLQK  
RWIEVFIPRFSISASYNLETILPKMGIQNVFDKNADFSGIAKRDSLQVSKATHKAVLDVS  
EEGTEATAATTTKFIVRSKDGPSYFTVSFNRTFLMMITNKATDGILFLGKVENPTKS

>sp|075391|SPAG7\_HUMAN Sperm-associated antigen 7 OS=Homo sapiens GN=SPAG7 PE=1 SV=2

MADLLGSILSSMEKPPSLGDQETRRKAREQAARLKKLQEKEKQKVEFRKRMEKEVSDFI  
QDSGQIKKKFQPMNKIERSILHDVVEVAGLTSFSFGEDDDCRYVMIFKKEFAPSDEELDS  
YRRGEEWDPQKAEEKRKLKELAQ RQEEEEAAQQGPVVVSPASDYKDKYSHLIGKGAADAA  
HMLQANKTYGCVPVANKRDRSIEEAMNEIRAKKRLRQSGEELPPTS

>sp|Q8NEY3|SPAT4\_HUMAN Spermatogenesis-associated protein 4 OS=Homo sapiens GN=SPATA4  
PE=1 SV=1

MAAAGQEKG YLTQTAAALDKSPSLSPQLAAPIRGRPKCLVYPHAPKSSRLSRSVLRWLQ  
GLDLSFFPRNINRDFSNGFLIAEIFCIYYPWELELSSFENGTS LKVKLDNWAQLEKFLAR  
KKFKLPKELIHGTI HCKAGVPEILIEEVYTLTTHREIKSIQDDFVNFTDYSYQMRLPLVS  
RSTVSKSIKDNIRLSELLSNPNMLTNELKAEFLILLHMLQRKLGRKLNPEWFDVKPTVGE  
VTLNHLPAQASGRRYNLKVKRGRVVPVLPNIGSGGSSHREIHVKQAGQHSYYSAMKPIRN  
MDKKP

>sp|Q9NWH7|SPAT6\_HUMAN Spermatogenesis-associated protein 6 OS=Homo sapiens GN=SPATA6  
PE=1 SV=1

MPKV KALQCALALEISSVTCPGVVLKDKEDIYLSICVFGQYKKTQCVPATFPLVFNARMV  
FEKVFPDAVDPGDVVTQLEYDTAVFELIQLVPPVGETLSTYDENTRDFMFPGPNQMSGHH  
DSNRQVTMRRI SGLRGNAPRLEFSTTSVITECLISSRKCHTQDKFIYHLAPVEKSHGRLQ  
NRTSRSQKKKSKSPERSKYCINAKNYEQPTISSKSHSPSPYTKRMCELSEDTRRRLAHL  
NLGPYEFKKETDKPPFVIRHVDPPSPRADTLLGSSGRDCERD GWSRVHNDHSHLGCCRPK  
DYKVIRTPHGRDFD DSLEKCEEYLSPRSCSKPRHSARTLLVHSAPSTMPKHSPPVLNRA

SLRERFHSWCSPSNCDEIHDRVKNVLKSHQAHQRHLYDERDLEKDDELELKRSLLCRDS  
AYSDPEYSSCQPRGTFHLDDGEYWSNRAASYKGKSHRPIFENSMDKMYRNLYKKACSS  
ASHTQESF

>sp|Q9P0W8|SPAT7\_HUMAN Spermatogenesis-associated protein 7 OS=Homo sapiens GN=SPATA7  
PE=1 SV=3

MDGSRRVRATSVLPRYGPPCLFKGHLSTKSNAFCTDSSSLRLSTLQLVKNHMAVHYNKIL  
SAKAAVDCSVPVSVSTSIKYADQQRREKLKKELAQCEKEFKLTKTAMRANYKNNSKSLFN  
TLQKPSGEPQIEDMLKEEMNGFSSFARSLVPSSERLHLSLHKSSKVIITNGPEKNSSSSP  
SSVDYAASGPRKLSSGALYGRPRSTFPNSHRFQLVISKAPSGDLLDKHSELSFNKQLPF  
TPRTLKTEAKSFLSQYRYTPAKRKKDFTDQRIEAEQTELSFKSELGTAETKNMTDSEM  
NIKQASNCVTYDAKEKIAPLPLEGHDSTWDEIKDDALQHSSPRAMCQYSLKPPSTRKIYS  
DEEELLYLSFIEDVTDEILKLGLFSNRFLERLFRHIKQKNHLEEEKMRHLLHVLKVDLG  
CTSEENSVKQNDVMDLNVDFEKAAGNSEPNELKNESEVTIQQERQQYQKALDMLLSAPKD  
ENEIFPSPTEFFMPIYKSKHSEGVIIQQVNDETNLSTLDENHPSISDSLTDRETSVNV  
IEGSDPEKVEISNGLCGLNTSPSQSVQFSSVKGDNNHDMELSTLKIMEMSIEDCPLDV

>sp|A1X283|SPD2B\_HUMAN SH3 and PX domain-containing protein 2B OS=Homo sapiens GN=SH3PXD2B  
PE=1 SV=3

MPPRRSIVEVKVLDVQKRRVPNKHVYIIRVTWSSGSTAIIYRRYSKFFDLQMQLDKFP  
MEGGQKDPKQRIIPFLPGKILFRRSHIRDVAVKRLIPIDEYCKALIQLPPIYISQCDEVLQ  
FFETRPEDLNPPKEEHIGKKSGGDQTSVDPMVLEQYVVVANYQKQESSEISLSVGQVVD  
II EKNESGWWFVSTAEQGWVPATCLEGQDGVQDEFSLQPEEEKEYTVIYPYTARDQDEM  
NLERGAVVEVIQKNLEGWWKIRYQGKEGWAPASYLKKNNGEPLPPKPGPGSPSHPGALDL  
DGVSRQQNAVGREKELLSSQRDGRFEGRPVPDGAQKRSKPMRQRPVPRRDMTIPRGLNL  
PKPPIPPQVEEYYTIAEFQTTIPDGISFQAGLKVEVIEKNLSGWWYI QIEDKEGWAPAT  
FIDKYKTSNASRPNFLAPLPEHVTQLRLGEEAALENNTGSEATGPSRPLPDAPHGVMD  
GLPWSKDWKSGSKDVLKASSDMSASAGYEEISDPDMEEKPSLPPRKESIIKSEGELLERE  
RERQRTEQLRGPTPKPPGVILPMPAKHIPPARDSRRPEPKPKSRLFQLKNDMGLECGH  
KVLAKEVKKPNLRPISSKKTDLPEEKPDATPQNPFLKSRPQVRPKPAPSPKTEPPQGEDQ  
VDICNLRSLRPAKSQDKSLLDGEGPQAVGGQDVAFSRSFLPGEGPGRAQDRTGKQDGLS  
PKEISCRAPPRPAKTTPVSKSVVPVLEAPQQRPVPPRRPPPPKKTSSSSRPLPEVRG  
PQCEGHESRAAPTGRALLVPPKAKPFLSNSLGGQDDTRGKGS LGPWGTGKIGENREKAA  
AASVPNADGLKDSLYAVADFEGDKDTSSFQEGTVFEVREKNSSGWWFCQVLSGAPSWEG  
WIPSNYLRKKP

>sp|Q96EA4|SPDLY\_HUMAN Protein Spindly OS=Homo sapiens GN=SPDL1 PE=1 SV=2

MEADIITNLRCLKEAEEERLAAQYGLQLVESQNELQNQLDKCRNEMMTTESYEQEKY  
TLQREVELKSRMLESLSCECEAIKQQQKMHEKLEEQLSRSHGQEVNELKTKIEKLKVEL  
DEARLSEKQLKHQVDHQKELLSCKSEELRVMSERVQESMSSEMLALQIELTEMESMKTTL  
KEEVNELQYRQEQLLELLITNLMRQVDRLKEEKEEREKEAVSYNALEKARVANQDLQVQL  
DQALQQALDPNSKGNLFAEVEDRRAAMERQLISMKVYQSLKKQNVFNREMQRMKLQI  
ATLLQMGKSQTEFEQERLLAMLEQKNGEIKHLLGEIRNLEKFKNLYDSMESKPSVDSGT  
LEDNTYYTDLLQMKLDNLNKEIESTKGELSIQRMKALFESQRALDIERKLFANERCLQLS  
ESENMKLRAKLDELKLYEPEETVEVPVLKKRREVL PVDIT TAKDACVNNSALGGEVYRL  
PPQKEETQSCPNSLLEDNNLQLEKSVSIYTPVVSLSPHKNLPVDMQLKKEKKCVKLIGVPA  
DAEALSERSGNTPNSPRLAAESKLQTEVKEGKETSSKLEKETCKKLHPILYVSSKSTPET

QCPQQ

>sp|Q9H2V7|SPNS1\_HUMAN Protein spinster homolog 1 OS=Homo sapiens GN=SPNS1 PE=1 SV=1

MAGSDTAPFLSQADDPDGPVPGTGPLGSTGNPKSEEPEVPDQEGLQRITGLSPGRSAL  
IVAVLCYINLLNMYDRFTVAGVLPDIEQFFNIGDSSSLIQTVFISYMLAPVFGYLG  
RYNRKYL MCGGIAFWSLVTLGSSFIPEGEHFWLLLLTRGLVGVGEASYSTIAPTLIADLFV  
ADQRSRMLSIFYFAIPVGSGLYIAGSKVKDMAGDWHWALRVTPGLGVVAVLLLFLVRE  
PPRGAVERHSDLPLNPTSWWADLRALARNPSFVLSLGTAVAFVTGSLALWAPAFLLR  
SRVVLGETPPCLPGDSCSSDSLIFGLITCLTGVLGVGLGVEISRRLRHSNPRADPLVCA  
TGLGSAPFLFLSLACARGSIVATYIFIFIGETLLSMNWAIVADILLYVVIPTRRSTAEA  
FQIVLSHLLGDAGSPYLIGLISDRLRNWPSPFLSEFRALQFSLMLCAFGALGGAFLG  
TAIFIEADRRRAQLHVQGLLHEAGSTDDRIVVPQRGRSTRVPVASVLI

>sp|Q9Y5K1|SP011\_HUMAN Meiotic recombination protein SP011 OS=Homo sapiens GN=SP011 PE=2  
SV=1

MAFAPMGPEASFFDVLDRHRESLLAALRRGGREPPTGGSRLASSEVLASIENTIIQDIIT  
SLARNEAPFTIDNRSSWENIKFEDSVGLQMVSHCTTRKIKSDSPKSAQKFSILKILSM  
IYKLVQSNYATKRDIYYTDSQLFGNQTVVDNIINDISCMKVSRRSLHILSTSKGLIAG  
NLRYIEEDGTKVNCTCGATAVAVPSNIQGIRNLVTDKFLVIVEKDATFQRLDDNFCNK  
LSPCIMITGKVPDLNTRLLVKKLWDTFHVVPVFTLVDADPHGIEIMCIYKYGSMMSFEA  
HHLTPAIRWLGLLPSDLKRLNVPKDSL IPLTKRDQMKLDSILRRPYVTCQPFWRKEME  
MADSKMKAIEIQAL TFLSSDYLSRVYLPNKLKFGGWI

>sp|Q9BX66|SRBS1\_HUMAN Sorbin and SH3 domain-containing protein 1 OS=Homo sapiens  
GN=SORBS1 PE=1 SV=3

MSSECDGGSKAVMNGLAPGSNGQDKATADPLRARSISAVKIIPVKTVKNASGLVLPDMD  
LTKICTGKGAVTLRASSYRETSPSSPASPQETRQHESKPGLEPEPSSADEWRLSSADA  
NGNAQPSSLAAGYRSVHPNLPSDKSDATSSSAAQPEVIVVPLYLVNTDRGQEGTARPP  
TPLGPLGCVPTIPATASAASPLTFPTLDDFIPPHLQRWPHHSQPARASGSFAPISQTTPS  
FSPPPLVPPAPEDLRRVSEPDLTGAVSSTDSSPLLNEVSSSLIGTDSQAFPSVSKPSSA  
YPSTTIVNPTIVLLQHNREQQKRLSSLDPVSERRVGEQDSAPTQEKPTSPGKAIEKRAK  
DDSRVVVKSTQDLSVSMDEVGIPLRNTERSKDWYKTMFKQIHKLNRDTPENPYFPTYK  
FPPELPEIQQTSEEDNPYTPYQFPASTPSPKSEDDSDLYSPRYSFSEDTKSPLSVPRSK  
SEMSYIDGKVVKRSATLPLPARSSSLKSSSERNDWEPPDKKVDTRKYRAEPKSIYEYQP  
GKSSVL TNEKMSRDISPEEIDLKNEPWYKFFSELEFGKPPPKKIWDYTPGDCSILPREDR  
KTNLDKDL SLCQTELEADLEKMETLNKAPSANVPQSSAISPTPEISSETPGYIYSSNFHA  
VKRES DGAPGDLTSENERQIYKSVLEGGDIPLQGLSGLKRPSSSASTKDSESPRHFIPA  
DYLESTEEFIRRRHDDKEKLLADQRRLKREQEEADIAARRHTGVIPTHHQFITNERFGDL  
LNIDDTAKRKSGSEMRPARAKFDFAQTLKELPLQKGDIVYIYKQIDQNWYEGEHHGRVG  
IFPRTYIELLPAAEKAQPKKLTVPVQVLEYGEAIAKFNFGDTQVEMSFRRGERITLLRQV  
DENWYEGRIPGTSRQGIFPITYVDVIKRPLVKNPVDYMDLPFSSSPSRSATASPQFSSHS  
KLITPAPSSLPHSRRALSPEMHAVTSEWISLTVGVPGRRLALTPPLPPLPEASINYNDH  
LALSPRASPSLSLPHLSWDRPTPRSVASPLALPSPHKTYSLAPTSQASLHMNGDGGV  
HTPSSGIHQDSFLQLPLGSSDSVISQLSDAFSSQSKRPWREESGQYERKAERGAGERGP  
GGPKISKKSCLKPSDVVRCLSTEQRLSDLNTPEESRPGKPLGSAFPGSEAEQTERHRGGE  
QAGRKAARRGGSQQPQAQRRVTPDRSQTSDLFYSYQALYSYIPQNDDELELRDGDIVDV  
MEKCDDGWVFGTSRRTKQFGTFPGNYVKPLYL

>sp|P37108|SRP14\_HUMAN Signal recognition particle 14 kDa protein OS=Homo sapiens GN=SRP14  
PE=1 SV=2

MVLESEQFLTELTRLFQKCRSGSVYITLKKYDGRTKPIPKKGTVEGFEPADNKCLLRA  
TDGKKKISTVVSKEVNKFQMAYSNLLRANMDGLKKRDKKNTKKTAAAAAAAAAAPAAA  
ATAPTTAATTAATAAQ

>sp|P09132|SRP19\_HUMAN Signal recognition particle 19 kDa protein OS=Homo sapiens GN=SRP19  
PE=1 SV=3

MACAAARSPADQDRFICIYPAYLNNKKTIAEGRRIPISKAVENPTATEIQDVCSAVGLNV  
FLEKNKMSREWNRDVQYRGRVRVQLKQEDGSLCLVQFPSRKSVMLYAAEMIPKLKTRTQ  
KTGGADQSLQQGEGSKKGKGGKKK

>sp|P78362|SRPK2\_HUMAN SRSF protein kinase 2 OS=Homo sapiens GN=SRPK2 PE=1 SV=3

MSVNSEKSSSSSERPEPQQKAPLVPPPPPPPPPPPLPDPPEPEEEEILGSDDEEQEDP  
ADYCKGGYHPVKIGDLFNGRYHVIRKLGWGHFSTVWLCWDMQGKRFVAMKVVKSQAQHYTE  
TALDEIKLLKCVRESDPSPNKMVVQLIDDFKISGMNGIHVCMVFEVLGHLLKWI IKS  
NYQGLPVRCVKSIIRQVLQGLDYLHCKKI IHTDIKPENILMCVDDAYVRMAAEATEWQ  
KAGAPPPSGSAVSTAPQQKPIGKISKNNKKLKKKQKRQAELEKRLQEIEELEREAERK  
IIEENITSAAPSNDQDGEYCEPVKLKTTGLEEAAEAETAKDNGEAEDEEKEDAENIE  
KDEDDVDQELANIDPTWIESPKTNGHIENGPFSEQLDDEDDDEEDCPNPEEYNLDEPN  
AESDYTYSSSYEQFNGELPNGRHKIPESQFPEFSTSLFSGSLEPVACGSVLSEGSPLTEQ  
EESSPSHDRSRTVSASSTGDLPAKTRAADLLVNPLDPRNADKIRVKIADLGACWVHKH  
FTEDIQTRQYRSIEVLIGAYSTPADIWSTACMAFELATGDYLFEPHSGEDYSRDEDHIA  
HIIELGSI PRHFALSGKYSREFFNRRGELRHITKLKPWSLFDVLVEKYGWPHEAAQFT  
DFLIPMLEMVPEKRASAGECLRHPWLNS

>sp|Q9Y5M8|SRPRB\_HUMAN Signal recognition particle receptor subunit beta OS=Homo sapiens  
GN=SRPRB PE=1 SV=3

MASADSRRVADGGGAGGTGFQPYDLTLRQELQQTDPTLLSVVAVLAVLLTLVFWKLIRSR  
RSSQRAVLLVGLCDSGKTLLFVRLLTGLYRDTQTSITDSCAVYRVNNNRGNSLTLIDLPG  
HESLRLQFLERFKSSARAI VFVVDAAAFQREVKDVAEFLYQVLIDSMGLKNTPSFLIACN  
KQDIAMAKSAKLIQQQLEKELNLT RVTRSAAPSTLDSSSTAPAQLGKKGKEFEFSQLPLK  
VEFLECSAKGGRGDVGSADIQDLEKWLAIA

>sp|B3KS81|SRRM5\_HUMAN Serine/arginine repetitive matrix protein 5 OS=Homo sapiens  
GN=SRRM5 PE=1 SV=3

MSSPKRSSKPSMSLAPSGSSMPTADPKPPASLKSTKSATPNRSLVPTKPATSRNSVMSPS  
SSKSTKSTSTKRAPSNRPSSRSRVRSKARTPSRVSTDTRTSKASKASDVRC HQRRGTHSR  
GRTPGRRGSRSSKRSPSRASTPGRI RTHGARPGMASRVRTPTSQQKGSRGKSYGRPRTSN  
RERDSQPRNLSKKSYRPPGGSGIGRSSELAVTPSTAKCQTPTGIPSKEKSDNPSPPSSSR  
KVKS YGQMIIPSREKSYSTEMSSRVKSYNQA STRSPQSHSQSRSPRRSRSGSQKRTHS  
RVRSHSWKRNHSRARSRTKGI LSQMGRHSQSRSHSKGKSQNSRTPRRGRSHNWSRNPS  
KERSHSHSRSSSKERDHRGSSSPRKESGRSQSGSPNKQRDHSRSPNKARDRSRSPY  
KARDRSRSPNKARDCSRSPYKARDRSRSPNKARDHSRSPNKARDRSRSPS  
KERDHSQLGSPSKERDHRSRSPSKERQCRQSRSSSKERDHRSRSPSKERQRRQSRSPN  
KERDRSQSRSPSEEREHRQSRSPSKERDRRRWRSPSKERERRQSRSSSEERDHSRSPN  
KQSGYSRPRASSKEKAHSRSTPSKEGNHSQSRTSSKESDPSQSTVPRSPDWKRSPTRTS  
SLSQNRTPSKTSSHSPSTFPGGQTL SQDDSQADATTSKATLPGERSSSSSSKLA

>sp|075494|SRS10\_HUMAN Serine/arginine-rich splicing factor 10 OS=Homo sapiens GN=SRSF10  
PE=1 SV=1

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFED  
VRDAEDALHNLDRKWICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYYDDYDRYRRSR  
SRSYERRRSRSSFYNYRRSYSPRNSRPTGRPRRSRSHSDNDRFKHRNRSFSRSKNSR  
SRSKSQPKKEMKAKSRRSASHTKTRGTSKTDSTHYKSGSRYEKESRKKEPPRSKSQSR  
SQSRSRSKSRSWTSPKSSGH

>sp|Q13243|SRSF5\_HUMAN Serine/arginine-rich splicing factor 5 OS=Homo sapiens GN=SRSF5  
PE=1 SV=1

MSGCRVFIGRLNPAAREKDVERFFKGYGRIRDIDLKRGFGFVEFEDPRDADDAVYELD GK  
ELCSERV TIEHARARSRGGGRGRYSDRFSSRRPRNDRRNAPPV RTENRLIVENLSSRVS  
WQDLKDFMRQAGEVTFADAHRPKLNEG VVEFASYGDLKNAIEKLSGKE INGRKIKLIEGS  
KRHSR SRSRSRSTRSSSRSRSRSRSRKSYSRSRSRSRSRSKSRSVSRSPVPEKSQ  
KRGSSSRSKSPASVDRQSRSRSRSRSDSGN

>sp|Q16629|SRSF7\_HUMAN Serine/arginine-rich splicing factor 7 OS=Homo sapiens GN=SRSF7  
PE=1 SV=1

MSRYGRYGGETKVYVGNLGTGAGKGELERAFSYYGPLRTVWIARNPPGFAFVEFEDPRDA  
EDAVRGLDGKVICGSRVRVELSTGMPRRSRFDRPPARRPFDPNDRCYECGEKGHYAYDCH  
RYSRRRRSRSRSHSRGRRYSR SRSRSGRRSR SASPRRSRSISLRRSRASLRRSR  
SGSIKGSRYFQSPSRSRSRSRISRPSSRSKSRSPSPKRSRSPSGSPRRSASPERMD

>sp|A2A2V5|SRTM1\_HUMAN Serine-rich and transmembrane domain-containing protein 1 OS=Homo  
sapiens GN=SERTM1 PE=4 SV=1

MSEPDTS SSGFSGSVENGTFLELFPTSLSTSDVPSSGHLSNVYIYVSIFLSLLAFLLLLLLI  
IALQRLKNIISSSSYPEYPSDAGSSFTNLEVCSISSQRSTFSNLSS

>sp|P51649|SSDH\_HUMAN Succinate-semialdehyde dehydrogenase, mitochondrial OS=Homo sapiens  
GN=ALDH5A1 PE=1 SV=2

MATCIWLRSCGARRLGSTFPGCRLRPRAGGLVPASGPAPGPAQLRCYAGRLAGLSAALLR  
TDSFVGGRWLPAAATFPVQDPASGAALGMVADCGVREARAAVRAAYEAFCRWREVS AKER  
SSLLRKWYNLMIQNKDDLARIITAESGKPLKEAHGEILYSAFFLEWFSEEARRVYGDI IH  
TPAKDRRALVLKQPIGVAAVITPWNFPSAMITRKVGAALAAGCTVVVKPAEDTPFSALAL  
AELASQAGIPSGVYNVPCSRKNAKEVGEAICTDPLVSKISFTGSTTTGKILLHHAANSV  
KRVSMELGGLAPFIVFDSANVDQAVAGAMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAF  
AEAMKKNLRVGNGFEEGTTQGPLINEKAVEKVEKQVNDAVSKGATVVTGGKRHQLGKNFF  
EPTLLCNVTQDMLCTHEETFGPLAPVIKFDTEEEAIAIANAADVGLAGYFYSQDPAQIWR  
VAEQLEVGMGVNEGLISSVECPFGGVKQSGLGREGSKYIDEYLELKYVCYGG L

>sp|Q76I76|SSH2\_HUMAN Protein phosphatase Slingshot homolog 2 OS=Homo sapiens GN=SSH2  
PE=1 SV=1

MALVTVQRSPSTSTSSPCASEADSGEECRSQPRSISESFLTVKGAALFLPRNGSSTP  
RISHRRNKHAGDLQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVSTNGRQDTEE  
SIVLGMDFSSNDSSTCTMGLVLPLWSDTLIHLDDGGGFSVSTDNRVHIFKPVSVQAMWSA  
LQSLHKACEVARAHNYPGSLFLTWVSYYESHINS DQSSVNEWNAMQDVQSHRPDSPALF  
TDIPTERERTERLIKTKLREIMMQKDLENITSKEIRTELEMQMV CNLREFKEFIDNEMIV  
ILGQMDSPQTIFEHVFLGSEWNASNLEDLQNRGVRYILNVTREIDNFFPGVFEYHNIRVY  
DEEATDLLAYWNDTYKFISKAKKHGSKCLVHCKMGVSRSASTVIAYAMKEYGWNLD RAYD



YVKERTVTKPNPSFMRQLEEYQGILLASKQRHNKLWRSHSDSLSDHHEPICKPGLELN  
KKDITTSADQIAEVKTMESHPIPPVFVEHMPQDANQKGLCTKERMICLEFTSREFHAG  
QIEDELNLNDINGCSSGCCLNESKFPLDNCHASKALIQPGHVP EMANKFPDLTVEDLET  
ALKADMNVHLLPMEELTSPDKDPPMSPDPESPSPQSCQTEISDFSTDRIDFFSALEK  
FV ELSQETR SRSF SHSRMEELGGGRNESCRLSVVEVAPSKVTADDQRSSSLNTPHASEESS  
MDEEQSKAISELVSPDIFMQSHSENAISVKEIVTEIESISQGVGQIQLKGDILPNPCHT  
P KKN S I H E L L L E R A Q T P E N K P G H M E Q D E D S C T A Q P E L A K D S G M C N P E G C L T T H S S I A D L E E  
G E P A E G E Q E L Q G S G M H P G A K W Y P G S V R R A T L E F E E R L R Q E Q E H H G A A P T C T S L S T R K N S K  
N D S S V A D L A P K G S D E A P P E H S F V L K E P E M S K G K G Y S G S E A G S L S H S E Q N A T V P A P R V L  
E F D H L P D P Q E G P G S D T G T Q Q E G V L K D L R T V I P Y Q E S E T Q A V P L P L P K R V E I I E Y T H I V T S  
P N H T G P G S E I A T S E K S G E Q G L R K V N M E K S V T V L C T L D E N L N R T L D P N Q V S L H P Q V L P L P H  
S S S P E H N R P T D H P T S I L S S P E D R G S S L S T A L E T A A P F V S H T T H L L S A S L D Y L H P Q T M V H L  
E G F T E Q S S T T D E P S A E Q V S W E E S Q E S P L S S G S E V P Y K D S Q L S S A D L S L I S K L G D N T G E L Q  
E K M D P L P V A C R L P H S S S S E N I K S L S H S P G V V K E R A K E I E S R V V F Q A G L T K P S Q M R R S A S L  
A K L G Y L D L C K D C L P E R E P A S C E S P H L K L L Q P F L R T D S G M H A M E D Q E S L E N P G A P H N P E P T  
K S F V E Q L T T T E C I V Q S K P V E R P L V Q Y A K E F G S S Q Q Y L L P R A G L E L T S S E G G L P V L Q T Q G L  
Q C A C P A P G L A V A P R Q Q H G R T H P L R R L K K A N D K K R T T N P F Y N T M

>sp|P31391|SSR4\_HUMAN Somatostatin receptor type 4 OS=Homo sapiens GN=SSTR4 PE=2 SV=2  
MSAPSTLPPGGEGLGTAWPSAANASSAPAEAEAEAVAGPGDARAAGMVAIQCIYALVCLV  
GLVGNALVIFVILRYAKMKTATNIYLLNLAVADELFMLSVPFVASSAALRHWPFGSVLCR  
AVLSVDGLNMFTSVFCLTVLSVDRYAVVHPLRAATYRRPSVAKLINLGVWLASLLVTLP  
IAIFADTRPARGGQAVACNLQWHPAWSAVFVVYTFLLGFLLPVLAIGLCYLLIVGKMRA  
VALRAGWQQRRRSEKKITRLVLMVVVVFVLCWMPFYVQLLNLFVTSLDATVNHVSLILS  
YANSCANPILYGFLSDNFRFFQRVLCRLCCLEAGAGAEELDYATALKSKGGAGCM  
CPPLPCQQEALQPEPGRKRIPLTRTTTF

>sp|Q16385|SSX2\_HUMAN Protein SSX2 OS=Homo sapiens GN=SSX2 PE=1 SV=2  
MNGDDAFARRPTVGAQIPEKIQKAFDDIAKYFSKEWEKMKASEKIFYVYMKRKYEAMTK  
LGFKATLPPFMCNKRAEDFQGNLDNDPNRGNQVERPQMTFGRLQGISP KIMPKKPAEEG  
NDSEEVPEASGPQNDGKELCPPGKPTTSEKIHERSGPKRGEHAWTHRLRERKQLVIYEEI  
SDPEEDDE

>sp|Q7RTT5|SSX7\_HUMAN Protein SSX7 OS=Homo sapiens GN=SSX7 PE=2 SV=1  
MNGDDAFARRPRAGAQIPEKIQKSFDDIAKYFSKKEWEKMKSLKISYVYMKRKYEAMTK  
LGFKATLPPFMHNTGATDLQGNDFDNRNQGQVERPQMTFCRLQRIFPKIMPKKPAEEG  
NDSKGVPEASGSQNDGKHLCPPGKPTTSEKINKTSGPKRGKHAWTHRLRERKQLVIYEEI  
SDPEEDDE

>sp|Q15532|SSXT\_HUMAN Protein SSXT OS=Homo sapiens GN=SS18 PE=1 SV=3  
MSVAFAPRQRGKGEITPAAIQKMLDDNNHLIQCIMDSQNKGTSECSQYQQLHTNLVY  
LATIADSNQNMQSLLPAPPTQNMPMGPGGMNQS GPPPPRSHNMPSDGMVGGGPPAPHMQ  
NQMNGQMPGPNHMPMGPGPNQLNMTNSSMNMPSSSHGSMGGYNHVPSSQSMPVQNQMT  
MSQGQPMGNYGPRPNMSMQPNQGPMHQPPSQQYNMPQGGGQHYQGQPPMGMGQVQV  
GNHMMGQRQIPYRPPQGGPPQYSGQEDYYGDQYSHGGQGPPEGMNQQYYPDGHNDYGY  
QQPSYPEQGYDRPYEDSSQHYYEGGNSQYGGQQDAYQGPPPPQQGYPPQQQQYPGQQGYPG  
QQQGYGPSQGGPGPYPNYPQGGQGYGGYRPTQPGPPPPQRPYGYDQGYGNYQQ

>sp|Q9Y5Y6|ST14\_HUMAN Suppressor of tumorigenicity 14 protein OS=Homo sapiens GN=ST14  
PE=1 SV=2

MGSDRARKGGGPKDFGAGLKYNRHEKVNGLLEEGVEFLPVNNVKKVEKHGPGRWVVLAA  
VLIGLLLVLLGIGFLVWHLQYRDVRVQKVFNGYMRITNENFVDAYENSNSTEFVSLASKV  
KDALKLLYSGVPFLGPYHKESAVTAFSEGSVIAYYWSEFSIPQHLVEEAERVMAEERVVM  
LPPRARSLSKSFVVTSVVAFPTDSKTVQRTQDNSSCSFGLHARGVELMRFTTPGFPDSPYPA  
HARCQWALRGDADSVLSLTFRSFDLASCDERGSDDLTVYNTLSPMEPHALVQLCGTYPPS  
YNLTFHSSQNVLLITLITNERRHPGFATFFQLPRMSSCGRLRKAQGTFNSPYYPGHY  
PPNIDCTWNIEVPNNQHVKVRKFFFYLLEPGVPAGTCKDYVEINGEKYCGERSQFVVT  
NSNKITVRFHSDQSYTDTGFLAEYLSYDSSDPCPGQFTCRTGRCIRKELRCDGWADCTDH  
SDELCSCDAGHQFTCKNKFCPLFWVCDVNDGDNDEQGCSCPAQTFRCNKGKLSK  
SQQCNGKDDCGDSEASCPKVNVTCTKHTYRCLNGLCLSKGNPECDGKEDCSDGSDEK  
DCDCGLRSFTRQARVVGTDADAEGEWPWQVSLHALGQGHICGASLISPWLVSAAHCYID  
DRGFRYSDPTQWTAFLGLHDQSQRSAPGVQERRLKRIISHPFFNDFTFDYDIALLELEKP  
AEYSSMVRPICLPDASHVFPAGKAIWVTGWGHTQYGGTGALILQKEIRVINQTTENLL  
PQQITPRMMC VGFLSGGVDSCQGDSSGGLSSVEADGRIFQAGVVSWDGCAQRNKP G VYT  
RLPLFRDWIKENTGV

>sp|O60284|ST18\_HUMAN Suppression of tumorigenicity 18 protein OS=Homo sapiens GN=ST18  
PE=1 SV=1

MDAEADKTLRTRSKGTEVPMDSLIQELSVAYDCSMAKKRTAEDQALGVPVNKRKSLLMK  
PRHYSKADCQEDRSDRTEDDGPLETHGHSTAEIMIKPMDESLSTAQENS SRKEDRYS  
CYQELMVKSLMHLGKFEKNVSVQTVSENLD SGISLKAESDEADECFLIHSDGRDKID  
DSQPPFCSSDDNESNSESAENGWDSGSNFSEETKPPRVPKYVLT DHKKDLLEVPEIKTEG  
DKFIPCENRCDSETERKDPQNALAEPLDGNAPSPFDVEEEDSESLAVMTEEGSDLEKAK  
GNLSLLEQAIALQAERGCVFHNTYKELDRFLEHLAGERRQTKVIDMGRQIFNNKHSPR  
PEKRETKCPIPGCDGTGHVTGLYPHHRSLSGCPHKVRVPLEILAMHENVLKCPTPGCTGR  
GHVNSNRNTHRSLSGCPIAAAEKLAMSQDKNQLDSPQTGQCPDQAHRTSLVKQIEFNFPS  
QAITS PRATVSKEQEKFGKVPFDYASFDAQVFGKRPLIQTVQGRKTPPFESKHFPNPVK  
FPNRLPSAGAHTQSPGRASSYSYGQCS EDTHIAAAAAAILNLSTRCREATDILSNKPQSLH  
AKGAEIEVDENGTLDSLMMKNRILDKSAPLTSSNTSIPTPSSSPFKTSSILVNAAFYQAL  
CDQEGWDTPINYSKTHGKTEEEKEKDPVSSLENLEKKFPGEASIPSPKPLHARDLKKE  
LITCTPTPGCDGSGHVTGNYASHRSVSGCPLADKTLKSLMAANSQELKCPTPGCDGSGHVT  
GNYASHRSLSGCPRARKGGVKMTPTKEEKEDPELKCPVIGCDGQGHISGKYTSHTASGC  
PLAAKRQKENPLNGASLSWKLNKQLPHCPPLPGCNGLGHVNNVFVTHRSLSGCPLNAQVI  
KKGVSEELMTIKLKATGGIESDEEIRHLDEEIKELNESNLKIEADMMKLQTQITSMESN  
LKTIEEENK LIEQNNESLLKELAGLSQALISSLADIQLPQMGP ISEQNFEAYVNTLTDMY  
SNLERDYSPECKALLESIKQAVKGIHV

>sp|P50226|ST1A2\_HUMAN Sulfotransferase 1A2 OS=Homo sapiens GN=SULT1A2 PE=1 SV=2

MELIQDISRPPEYVKGVPLIKYFAEALGPLQSFQARPDDL ISTYPKSGTTWVSQILDM  
IYQGGDLEKCHRAPIFMRVPFLEFKVPGIPSGMETLKNT PAPRLKTHLPLALLPQTLLD  
QKVKVVYVARNAKDVAVSYYHFYHMAKVYPHPTWESFLEKFMAGEVSYGSWYQH VQEWW  
ELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETVDLMVEHTSFKEMKKNPMTNY  
TTVRREFMDHSISPFRKGMAGDWKTTFTVAQNERFDADYAKKMAGCSLSFRSEL

>sp|PODMNO|ST1A4\_HUMAN Sulfotransferase 1A4 OS=Homo sapiens GN=SULT1A4 PE=1 SV=1

MELIQDTSRPPELVKGVPLIKYFAEALGPLQSFQARPDDLINTYPKSGTTWVSQILDM  
IYQGGDLEKCNRAPIYVRVPFLEVNDPGEPSGLETLKDTPPPRLIKSHLPLALLPQTLLD  
QKVKVVYVARNPKDVAVSYYHFRMEKAHPEPGTWDSFLEKFMAGEVSYGSWYQHVEWW  
ELSRTHPVLVLYFYEDMKENPKREIQKILEFVGRSLPEETMDFMVQHTSFKEMKKNPMTNY  
TTVPQELMDHSISPFRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

>sp|Q86UX6|ST32C\_HUMAN Serine/threonine-protein kinase 32C OS=Homo sapiens GN=STK32C PE=1  
SV=1

MRSQAERRGSSAAASPGSPPPGRARPAGSDAPSALPPPAAGQPRARSDGVRSQPRPLFQ  
WSKWKKRMGSSMSAATARRPVFDDKEDVNFDFHFQILRAIGKGSFGKVCIVQKRDTEKMYA  
MKYMNKQQCIERDEVNRVNFRELEILQEIEHVFLVNLWYSFQDEEDFMVVDLLGGDLRY  
HLQQNVQFSEDTVRLYICEMALALDYLRGQHI IHRDVKPDNILLDERGHAHLTDFNIATI  
IKDGERATALAGTKPYMAPEIFHSFVNGGTGYSFEVDWWSVGMAYELLRGWRPYDIHSS  
NAVESLVQLFSTVSVQYVPTWSKEMVALLRKLLTVNPEHRLSSLQDVQAAPALAGVLWDH  
LSEKRVEPGFVPNGRHLCDPTFELEEMILESRLHKKKKRLAKNKS RDNSRDSSQSEND  
YLQDCLDAIQQDFVIFNREKLKRSQDLPREPLPAPESRDAAEPVEDEAERSALPMCGPIC  
PSAGSG

>sp|Q9BR01|ST4A1\_HUMAN Sulfotransferase 4A1 OS=Homo sapiens GN=SULT4A1 PE=1 SV=2

MAESEAEPTSTPGEFESKYFEFHGVRLPPFCRGKMEEIANFPVRPSDVWIVTYPKSGTSL  
LQEVVYLVSQGADPDEIGLMNIDEQLPVLEYPQGLDI IKELTSPRLIKSHLPYRFLPSD  
LHNGDSKVIYMARNPKDLVVSYYQFHRSLRTMSYRGTFQEFCCRFRMNDKLGYSWFEHVQ  
EFWEHRMDSNVLFKYEDMHRDLVTMVEQLARFLGVSCDKAQLAALTEHCHQLVDQCCNA  
EALPVGRGRVGLWKDIFTVSMNEKFDLVYKQKMGKCDLTFDFYL

>sp|Q9NY15|STAB1\_HUMAN Stabilin-1 OS=Homo sapiens GN=STAB1 PE=1 SV=3

MAGPRGLLPLCLLAFCLAGFSFVRGQVLFKGC DVKTTFTVTHVPCTSCAAIKKQTCPSGWL  
RELPDQITQDCRYEVQLGGSVMVMSGCRRKCRKQVVQKACCPGYWGSRCHECPGGAETPC  
NGHGTCLDGM DRNGTCVCQENFRGSACQECQDPNRF GPDQSVCSVHGV CNHGPRGDGS  
CLCFAGYTGP HCDQELPVCQELRCPQNTQCSAEAPSCRCLPGYTQQGSECRAPNPCWPSP  
CSLLAQCSVSPKGQAQCHCPENYHGDGMVCLPKDPCTDNLGGCPSNSTLCVYQKPGQAFC  
TCRPGLVSINSNASAGCAFCSFSPFSCDRSATCQVTADGKTSCVCRESEVGDGRACYGHLL  
HEVQKATQTGRVFLQLRVAVAMMDQGC REILTTAGPFTVLVPSVSSFSSRTMNASLAQQL  
CRQHIIAGQHILEDTRTQQTRWWTLAQEITVTFNQFTKYSYKYDQPPQTFNIIKANN  
IAANGVFHVVTGLRWQAPSGTPGDPKRTIGQILASTEAFSRFETILENCGLPSILDGPGP  
FTVFAPSNEAVDSL RDGRLIYLFTAGLSKLQELVRYHIYNHGQLTVEKLISKGRILTMAN  
QVLAVNISEEGRIILGPEGVPLQRVDVMAANGVIHMLDGILLPPTILPILPKHCSEEQHK  
IVAGSCVDCQALNTSTCPPNSVKLDIFPKECVYIHDPTGLNVLKKG CASYCNQTIMEQGC  
CKGFFGPDCTQCPGGFSNPCYKGKNCSDGIQNGACLCFPDYKGIACHICSNPNKHGEQC  
QEDCGCVHGLCDNRPGSGGVCQQGTCAPGFSGRFCNESMGDCGPTGLAQHCHLHARCVSQ  
EGVARCRCLDGFEGDGF SCTPSNPCSHPD RGGSENAECVPSGLTHHCTCHKGWSGDGR  
VCVAIDECELDMRGGCHTDALCSYVGP GQSRCTCKLGFAGDGYQCSPIDPCRAGNGGCHG  
LATCRAVGGGQRVCTCPPFGG DGFSCYGDIFRELEANAHFSIFYQWLKSAGITLPADRR  
VTALVPSEAAVRQLSPEDRAFWLQPRTL PNLVRAHFLQGALFEEELARLGGQEVATLNPT  
TRWEIRNISGRVWVQNASVDVADLLATNGVLHILSQVLLPPRGDVPGGQGLLQQLDLVPA  
FSLFRELLQHHGLVPQIEAATAYTIFVPTNRSLEAQGNSSHL DADTVRHHVVLGEALSME  
TLRKG GHRNSLLGPAHWIVFYNHSGQPEVNHVPLEGPMLEAPGRSLIGLSGVLTVGSSRC

LHSHAEALREKCVNCTRRFRCTQGFQLQDTPRKSCVYRSGFSFSGCSYCAKKIQVPDC  
CPGFFGTLCCEPCGGGVCVSGHGCQDRFLGSGECHCHEGFHGTACEVCELGRYPNCT  
GVCDCAHGLCQEGQLQDGSVCVNGVWQGLRCDQKITSPQCPRKCDPNANCVQDSAGASTC  
ACAAGYSGNGIFCSEVDPCAHHGGCSPHANCTKVAPGQRTCTCQDGYMGDGLCQEINS  
CLIIHHGGCHIIHAECIPTGPQQVSCSCREGYSGDGIRTCELLDPCSKNNGGCSPYATCKST  
GDGQRTCTCDTAHTVGDGLTCRARVGLELLRDKHASFFSLRLLEYKELKGDGPFTIFVPH  
ADLMSNLSQDELARIRAHRLVFRYHVVGCRRLRSEDLLEQGYATALSGHPLRFSERECS  
IYLNDFARVVSSDHEAVNGILHFIDRVLLPPEALHWEPDDAPIPRRNVTAQAQGFYKIF  
SGLLKVAGLLPLLREASHRPFTMLWPTDAAFRALPPDRQAWLYHEDHRDKLAAILRGHMI  
RNVEALASDLPNLGPLRTMHGTPISFSCSRTRAGELMVGEDDARIVQRHLPFEGGLAYGI  
DQLEPPGLGARCDFETRPLRLNTCSICGLEPPCPEGSQEQGSPEACWRFPYKFWTSPP  
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DRGVCMDGMSGGQCLCRSGFAGTACELCAPGAFGPHCQACRCTVHGRCDEGLGGSGSCF  
CDEGWTGPRCEVQLELQPVCTPPCAPEAVCRAGNSCECSLGYEGDGRVCTVADLCQDGHG  
GCSEHANCSQVGMTVCTCLPDYEGDGWSCRARNPCTDGHRRGCSEHANCLSTGLNTRRC  
ECHAGYVGDLQCLEESEPPVDRCLGQPPPCHSDAMCTDLHFQEKRAVGFHLQATSGPYG  
LNFSEAEAAACEAQGAVLASFPQLSAAQQLGFHLCMLGWLANGSTAHPVVPVADCGNGRV  
GIVSLGARKNLSERWDAYCFRVQDVACRCRNGFVGDICTCNGKLLDVLAAANFSTFYG  
MLLGYANATQRGLDFLDFLDELTYKTLFVPVNEGFDNMTLSPDLELHASNATLLSAN  
ASQGKLLPAHSGLSLIIISDAGPDNSSWAPVAPGTVVVSRIIVWDIMAFNGIIHALASPLL  
APPQPQAVLAPEAPPVAAGVGAVALAAGALLGLVAGALYLARGKPMGFGFSAFQAEDDAD  
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>sp|P42224|STAT1\_HUMAN Signal transducer and activator of transcription 1-alpha/beta  
OS=Homo sapiens GN=STAT1 PE=1 SV=2

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RFNQAQSGNIQSTVMLDKQKELDSKVRNVKDKVMCIEHEIKSLEDLQDEYDFKCKTLQNR  
EHETNGVAKSDQKQEQQLLKKMYLMLDNKRKEVVHKIIELLNVTELTQNALINDELVEWK  
RRQQSACIGGPPNACLDQLQNWFTIVAESLQQVRQQLKLEELEQKYTYEHDPIITKNQV  
LWDRFTSLFQQLIQSSFVVERQPCMPHTPQRPLVLKTGVQFTVKLRLLVKLQELNYNLKV  
KVLFDKDVNERNTVKGRFKNILGHTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTN  
EGPLIVTEELHLSFETQLCQPLVIDLETSLPVVVISNVSQLPSGWASILWYNMLVAE  
PRNLSFFLTPPCARWAQLSEVLSWQFSSVTKRGLNVDQLNMLGEKLLGPNASPDGLIPWT  
RFCKENINDKNFPFWLWIESILELIKHLPLWNDGCIMGFISKERERALLKDQPGTFL  
LRFSESSREGAITFTWVERSQNGGEPDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIP  
ENPLKYLYPNIDKDHAFGKYYSRPKEAPEPEMELDGPKGTGYIKTELISVSEVHPSRLQTT  
DNLLPMSPEEFDEVSRIVGSVEFDSMMNTV

>sp|Q6NZ63|STEAL\_HUMAN STEAP family member 1B OS=Homo sapiens GN=STEAP1B PE=2 SV=1

MESRKDITNQEEIWKMKPRRNLEDNDYLQTAHADEFDCPSELQHAQELFPQWHLPIKIAA  
VMASLTFLYTLLREVHPLATSHQYFYKIPILVINKVLPMSITLLALVYLPGVIAAIV  
QVHNGTKYKKFPHWLDKWWLTRKQFGLLSLFFAVLHAIYTLASYAMRRSYRYKLLNWAYQQ  
VQQNKEDAWIEHDVWRMEIYVSLGIVGLAILALLAVTSIPSVSDSLTWREFHYIQVHGRI  
NFLT

>sp|Q13285|STF1\_HUMAN Steroidogenic factor 1 OS=Homo sapiens GN=NR5A1 PE=1 SV=2

MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSKIDKT  
QRKRCPFCRFQKCLTVGMRLEAVRADRMGRGNKFGPMYKRDALKQQKKAQIRANGFKL  
ETGPPMGVPPPPPPADPYVLPPSLHGPEPKGLAAGPPAGPLGDFGAPALPMAVPGAHGPL  
AGYLYPAFPGRAIKSEYPEPYASPPQGPLPYGYPEPFGGPNVPELILQLLQLEPDEDQV  
RARILGCLQEPTKSRPDQPAAFGLLCRMADQTFISIVDWARRCMVFKELEVADQMTLLQN  
CWSELLVFDHIYRQVQHGEKSILLVTGQVELTTVATQAGSLLHSLVLAQELVLQLLA  
LQLDRQEFVCLKFIILFSLDLKFLNNHILVKDAQEKANAALLDYTLCHYPHCGDKFQQLL  
LCLVEVRALSMQAKELYHKHLGNEMPRNNLLIEMLQAKQT

>sp|Q86WV6|STING\_HUMAN Stimulator of interferon genes protein OS=Homo sapiens GN=TMEM173  
PE=1 SV=1

MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRYLVLHLASLQLGLLL  
NGVCSLAEELRHIHSRYRGSYWRTVRACLGCPLRGALLLSIYFYSLPNAVGPFTWM  
LALLGLSQALNILLGLKGLAPAEISAVCEKGNFNVAHGLAWSYYIGYLRILPELQARIR  
TYNQHYNNLLRGAVSQRLYIILLPLDCGVPDNLMSADPNIRFLDKLPQQTGDHAGIKDRVY  
SNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLEQAKLFCRTLEDILA  
DAPESQNNCRLIAYQEPADDSSFSLSQEVLRHLRQEEKEEVTVGSLKTSAVPSTSTMSQE  
PELLISGMEKPLPLRTDFS

>sp|P31948|STIP1\_HUMAN Stress-induced-phosphoprotein 1 OS=Homo sapiens GN=STIP1 PE=1 SV=1

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GCKTVDLKPDWKGYSRKAALFLNRFEAKRTYEGLKHEANNPQLKEGLQNMEARLA  
ERKFMNPNMNPNYQKLES DPRTRTLLSDPTYRELIEQLRNKPSDLGTLQDPRIMTTLS  
VLLGVDLGSMDEEEEIATPPPPPPKKETKPEPMEEDLPENKKQALKEKELGNDAYKKKD  
FDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKRELCEKAIIEVGRENREDYRQIA  
KAYARIGNSYFKEEKYKDAIHFYNKSLAEHRTPDVLLKKCQQA EKILKEQERLAYINPDLA  
LEEKNGNECFQKGDYPQAMKHYTEAIKRNPKDAKLYSNRAACYTKLLEFQLALKDCEEC  
IQLEPTFIKGYTRKAAALEAMKDYTKAMDVYQKALDLDSCKEAADGYRCMMAQYNRHD  
SPEDVKRRAMADPEVQQIMSDPAMRLILEQM QKDPQALSEHLKNPVIAQKIQLMDVGLI  
AIR

>sp|075716|STK16\_HUMAN Serine/threonine-protein kinase 16 OS=Homo sapiens GN=STK16 PE=1  
SV=4

MGHALCVCSRGTVIIDNKRYLFIQKLGE GGSYVDLVEGLHDGHFYALKRILCHEQQDRE  
EAQREADMHRLFNHPNILLRLVAYCLRERGAKEAWLLLPFFKRGTLWNEIERLKDKGNFL  
TEDQILWLLLGICRGLEATHAKGYAHRDLKPTNILLGDEGQPVMDLGSMNQACIHVEGS  
RQALTLQDWAAQRCTISYRAPELFSVQSHCVIDERTDVWSLGCVL YAMMFGE GYPDMVFQ  
KGDSVALAVQNQLSIPQSPRHSSALRQLLNSMMTVDPHQRPHIPLLLSQLEALQPPAPGQ  
HTTQI

>sp|Q9NRP7|STK36\_HUMAN Serine/threonine-protein kinase 36 OS=Homo sapiens GN=STK36 PE=1  
SV=2

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PNIVHMLDSFETDKVEVVVVTDYAEGELFQILEDDGKLPEDQVQAIAAQLVSALYYLHSHR  
ILHRDMKPNILLAKGGGIKLCDFGFARAMSTNTMVLTSIKGTPLYMSPELVEERP YDHT  
ADLWSVGCILYELAVGTPPFYATSI FQLVSLILKDPVRWPSTISPCFKNFLQGLLTKDPR  
QRLSWPDLLYHPFIAGHVTTIITEPAGPD LGTPFTSRLPPELQVLKDEQAHR LAPKGNQSR  
ILTQAYKRMAEEAMQKKHQNTGPALEQEDKTSKVAPGTAPLPRLGATPQESSLLAGILAS

ELKSSWAKSGTGEVPSAPRENRTTPDCERAFPEERPEVLGQRSTDVVDLENEEPDSNEW  
QHLETTEPVPIQLKAPLTLLCNPDFCQRIQSQLHEAGGQILKGILEGASHILPAFRVLS  
SLLSSCSDSVALYSFCREAGLPGLLSLLRHSQESNSLQQQSWYGTFLQDLMAVIQAYFA  
CTFNLERSQTSDSLQVFEAAANFLDLLGKLLAQPDSEQLRRDSLMCFTVLCEAMDGN  
SRAISKAFYSSLLTTQQVVDGLLHGLTVPQLPVHTPQGAPQVSQPLREQSEDIPGAISS  
ALAAICTAPVGLPDCWDAKEQVCWHLANQLTEDSSQLRPSLISGLQHPILCLHLLKVLYS  
CCLVSEGLCRLLGQEPLALESFLMLIQGKVKVVDWEESTEVTLYFLSLLVFRLQNLP  
EKLGSVDVATLFTSHVSVLSAAAACLLGQLGQGVTFDLQPMEWMAAATHALSAPAEVRL  
TPPGSCGFYDGLLILLQLLTEQKASLIRDMSSSEMWTVLWHRFSMVLRLPEEASAEQ  
ELSLSSPPSPEPDWTLISPGMAALLSLAMATFTQEPQLCLSLQHSILMSILKHLLC  
PSFLNQLRQAPHGSEFLPVVLSVCQLLCPFALDMDADLLIGVLADLRDSEVAHLLQV  
CCYHLPLMQVELPISLLTRLALMDPTSLNQFVNTVSASPRTIVSFLSVALLSDQPLTSD  
LLSLLAHTARVLSPSHLSFIQELLAGSDESYRPLRSLLGHPENSVRAHTYRLLGHLLQHS  
MALRGALQSQSGLSLLLLGLGDKDPVVRCSASFVGNAAQAGPLGPALAAVPSMTQL  
LGDPQAGIRRNVASALGNLGEPLGEELLQCEVPQRLLMACGDPQPNVKEAALIALRSL  
QQEPGIHQVLVSLGASEKLSLLSLGNQSLPHSSPRPASAKHCRKLIHLLRPAHSM

>sp|H3BQB6|STMND1\_HUMAN Stathmin domain-containing protein 1 OS=Homo sapiens GN=STMND1  
PE=2 SV=1

MGCGPSQPAEDRRRVRAPKKGWKEEFKADVSPHTGENCSPRMEAAATKNTVDIAEGLEQ  
VQMGSPLGTISENSPSPSERNRVNNDLVTNGLINKPQSLESRERQKSSDILEELIVQGI  
IQSHSKVFRNGESYDVTLTTEKPLRKPPSRLKKLIKQVKDFTMKDIEEKMEAAEERR  
KTKEEEIRKRLRSDRLPSANHSDSAELDGAEVAFAGLQVRVSAGFEPSDLQGGKPLKR  
KKSKCDATLIDRNEDESFGVVESDMSYNQADDIVY

>sp|A6NGW2|STRCL\_HUMAN Putative stereocilin-like protein OS=Homo sapiens GN=STRCP1 PE=5  
SV=1

MALSLWPLLLLLLLLLLLSFAVTLAPTGPHSLDPGLSFLKSLLSTLDQAPQGSLSRSRFF  
TFLANISSSFEPGRMGEGPVGEPPLQPPALRLHDFLVTLRGSPDWEPMLGLLGDMALL  
GQEQTPRDFLVHQAQVGLGVEVLLGALVPGGPPTPTQPPCTRDGPSDCVLAADWLPSLL  
LLEGRWQALVQVQPSVDPTNATGLDGRAAPHFLQGLLGLLTPTGELGSKEALWGGLL  
RTVGAPLYAAQEGLLRVTHSLQDEVFSILGQPEPDTNGQCQGGNLQQLLLWVRHNL  
SWDVQALGFLSGSPPPALLHCLSTGVPLPRASQPSAHISPRQRRAITVEALCENHLPAP  
PYSISNFSIHLLCQHTKPATPQHPSTTAICQTAVWYAVSWAPGAQGWLQACHDQFPDEF  
LDAICSNLSFSALSGSNRRLVKRLCAGLLPPPTSCPEGLPPVPLTPDIFWGCFLNETLW  
AERLCGEASLQAVPPSNQAWVQHVCQGPTPDVTASPPCHIGPCGERCPDGGSFVMVCAN  
DTMYEVLVPFWPWLQAGQCRISRGNDTCFLEGLLGPLLPSLPPLGPSPLCLTPGPFLGM  
LSQLPRCQSSVPALAHPTRLHYLLRLLTFLLGPGAGGAEAGMLGRALLSSLPDNCSEFW  
DAFRPEGRRSVLRTIGEYLEQDEEQTPSGFEPTVNPSSGISKMELLACFSPVLDLLQR  
EKSVALQILVQAYLHMPENLQQLVLSAEREAAGFLTLMQGLQGLQVPPSEEQAL  
GRLTALLLQRYPRLTSLFIDLSPILPFLAVSDLMRFPPSLLANDSVLAAIRDYSPGMRP  
EQKEALAKRLLAPELFGVPAWPQELLWAVLPLLPHLPLENFLQLSPHQIQALEDSPAA  
GLGPGHARHVLRSLVNQSVQDGEEQVRRLGPLACFLSPEELQSLVPLSDPTGPVERGLLE  
CAANGTLSPEGRVAYELLGVLRSSGAVLSPREL RVWAPLFSQLGLRFLQELSEPQLRAM  
LPVLQGTSVTPAQAVLLGRLLPRHDLSEELCSLHLLLPGLSPQTLQAIPRRVLVGACS  
CLAPELSRLSACQTAALLQTRVKDGVKNMGTTGAGPAVCIPGQQPIPTTWPDCLLPLLP

LKLLQLDSLALLANRRRYWELPWSEQQAQFLWKKMQVPTNLTLRNLQALGTLAGGMSCEF  
LQQINSMVDFLEVHMIYQLPTRVRGSLRACIWAELQRRMAMPEPEWTTVGPELNGLDSK  
LLLDLPIQLMDRLSNESIMLVVELVQRAPEQLLALTPLHQAALAERALQNLAPKETPVSG  
EVLETGLPLVGFLGTESTRQIPLQILLSHLSFCLGETFATELGWLLQESVLGKPELWSQ  
DEVEQAGRLVFTLSTEAISLIPREALGPETLERLLEKQQSWEQSRVGQLCRGPQLAAKKA  
ALVAGVVRPAAEDLPEPVPNCADVGRTFPAACSATQIAEMELSDFKDCLTLFAGDPGLGP  
EEPRAAMGKAKWLWGPPRGFGPEQILQLGRLLIGLGDQELQELILVDWGVSTLGGIDGW  
SSTQLRIVVSSFLRQSGRHVSHLDFVHLTALGYTLCGLRPEELQHISSEWFSQAALFLGT  
LHLQCSEEQLEFLAHLFVLPGGFGPISNWGPEIFTEIGTIAAGIPDLALSALLRGQIQGV  
TPLAISVIPPPKFAVVFSPQIQLSSLASAQAVAVTPEQMAFLSPEQRRAWAQHEGKESP  
EQQGRSTAWGLQDWSRPSWSLVLTISFLGHLL

>sp|Q13033|STRN3\_HUMAN Striatin-3 OS=Homo sapiens GN=STRN3 PE=1 SV=3

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QQYTIPGILHYIQHEWARFEMERAHWEVERAELQARIAFLQGERKQGENLKKDLVRRIKM  
LEYALKQERAKYHKLKYGTELNQDLKMPTFESEETKDTEAPTAPQNSQLTWKQGRQLLR  
QYLQEVGYTDTILDVRSQRVRSLLGLSNSEPNGSVETKNLEQILNGGESPKQKGQEIKRS  
SGDVLETNFLENADDSDEDEENDMIEGIEPEGKDKHRMNKHKIGNEGLAADLTDDPDTEE  
ALKEFDLVTAEDEGEGAGEARSSGDGTEWDKDDLSPAEVWDVDQGLISKLKEQYKKERK  
GKKGVKRANRTKLYDMIADLGDELPHIPSGIINQSRASSTRMTDHEGARAEAEPIITFP  
SGGGKSFIMGSDDVLLSVLGLGLDLADLTVTNDADYSYDLPANKDAFRKTWNPKYTLRSHF  
DGVRLAFHPVEPVLVTASEDHTLKLWNLQKTVPAKKSASLDVEPIYTFRAHIGPVLSLA  
ISSNGEQCFSGGIDATIQQWNMPSPSVDPYDYEPNVLAGTLVGHTDAVWGLAYSGIKNQ  
LLSCSADGTVRLWNPQEKLPICITYNGDKKHGIPTSVDFIGCDPAHMTSFNTGSAVIYD  
LETSQSLVILSSQVDSGLQSNHINRVVSHPTLPVTITAHEDRHIKFFDNKTGKMIHSMV  
AHLDAVTSLAVDPNGIYLMMSGSHDCSIRLWNLDSTCVQEITAHKKLDESIYDVAFHSS  
KAYIASAGADALAKVFV

>sp|O95416|SOX14\_HUMAN Transcription factor SOX-14 OS=Homo sapiens GN=SOX14 PE=1 SV=1

MSKPSDHIKRPMAFMVWSRGQRRKMAQENPKMHNSEISKRLGAEWKLLSEAEKRPYIDE  
AKRLRAQHMKHEPDYKYRPRRKPNLLKKDRYVFPLPYLGTDPLKAAGLPVGASDGLLS  
APEKARAFLPPASAPYSLLDPAQFSSSAIQKMGEVPHTLATGALPYASTLGYQNGAFGSL  
SCPSQHTHTHPSPTNPYVPCNCTAWSASTLQPPVAYILFPGMTKTGIDPYSSAHATAM

>sp|Q6UW49|SPESP\_HUMAN Sperm equatorial segment protein 1 OS=Homo sapiens GN=SPESP1 PE=1  
SV=2

MKPLVLLVALLLWPSSVPAYPSITVTPDEEQNLNHYIQVLENLVRVSPSGEPGREKKSNS  
PKHVYSIASKGSKFKELVTHGDASTENDVLTNPISEETTTFTGGFTPEIGKKKHTESTP  
FWSIKPNNVSIVLHAEOPYIENEEPEPEPEPAAKQTEAPRMLPVVTESSPYVTSYKSP  
VTTLDKSTGIGISTESEDVPQLSGETAIEKPEEFGKHPESWNDDILKKILDINSQVQQA  
LLSDTSNPAYREDIEASKDHLKRSALAAAAEHKLKTMYSQLLPVGRTSNKIDDIETVI  
NMLCNSRSKLYEYLDIKCVPPEMREKAATVFNTLKNMCRSRRVTALLKVY

>sp|Q96I25|SPF45\_HUMAN Splicing factor 45 OS=Homo sapiens GN=RBM17 PE=1 SV=1

MSLYDDLGVETSDSKTEGWSKNFKLLQSQLQVKKAAALTQAKSQRTKQSTVLAPVIDLKRK  
GSSDDRQIVDTPPHVAAGLKDPVPSGFSAGEVLIPLADEYDPMFPNDYEKVVKRQREERQ  
RQRELERQKEIEEREKRRKDRHEASGFARRPDPSDEDEDYERERRKRSMGAAIAPPTS  
LVEKDKELPRDFPYEEDSRPRSQSSKAAIPPPVYEEQDRPRSPTGPSNSFLANMGGTVAH

KIMQKYGFREGQGLGKHEQGLSTALSVEKTSKRGGKIIVGDATEKDASKKSDSNPLTEIL  
KCPTKVLLRNMVGAGEVDEDELEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFE  
RVESAIAKAVVDLNGRYFGGRVVKACFYNLDKFRVLDLAEQV

>sp|Q8NOX2|SPG16\_HUMAN Sperm-associated antigen 16 protein OS=Homo sapiens GN=SPAG16 PE=2  
SV=2

MAAQRGMPSSAVRVLEEALGMGLTAAGDARDTADAVAAEGAYYLEQVTITEASEDDYEYE  
EIPDDNFSIPEGEEDLAKAIQMAQEATDTEILERKTVLPSKHAVPEVIEDFLCNFLIKM  
GMTRTLDCFQSEWYELIQKGVTELRTVGNPVDVYTQIMLLENENKLNKKDLKHYKQAAADK  
AREDLLKIQKERDFHRMHKRIVQEKNNKLINDLKGLKLHYASYEPTIRVLHEKHHTLLKE  
KMLTSLERDKVVGQISGLQETLKKLQRGHSYHGPQIKVDHSREKENAPEGPTQKGLREAR  
EQNKCKTKMKGNTKDSEFPIDMQPNPNLVSKESLSPAKFDYKLNIFRLHELPVSCVSM  
QPHKDILVSCGEDRLWKVLGLPKCNVLLTGFGHTDWLSDCCFHPSGDKLATSSGDTTVKL  
WDLCKGDCILTFEGHSRAVWSCTWHSCGNFVASSSLDKTSKIWDVNSERCRCCTLYGHTDS  
VNSIEFFPFSNTLLTSSADKTL SIWDARTGICEQSLYGHMHSINDAIFDPRGHMIASDA  
CGVTKLWDFRKLPIVSIIDIGSPGNEVNFDSGRVLAQASGNV IHLDDLKSGEIHKLM  
GHENEAHTVVFSHDGEILFSGSDGTVRTWS

>sp|Q14159|SPIDR\_HUMAN DNA repair-scaffolding protein OS=Homo sapiens GN=SPIDR PE=1 SV=2

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GNPSLTAEKKTITEKHLELCPRPKQETTTSKSTSGLTDITWSSSGSDLSDEDKTLSQLQR  
DELQFIDWEIDSRAEASDCDEFEDDEGAVEISDCASCASNQSLTSDEKLSLKPSSIE  
ILEYSSDSEKEDDLENVLLIDSESPHKYHVQFASDARQIMERLIDPRTKSTETILHTPQK  
PTAKFPRTPENSAKKKLLRGGLAERLNLQNRERSAISLWRHCISYQKTLSGRKSGVLT  
VKILELHEECAMQVAMCEQLLGSPATSSSQSVAPRPGAGLKVLFTKETAGYLRGRPQDTV  
RIFPPWQKLIIPSGSCPVLNITYFCEKVVAKEDSEKTCEVYCPDIPLPRRSISLAQMFVI  
KGLTNSPEIQVVCSGVATTGTAWTHGHKEAKQRIPTSTPLRDSLLDVVESQGAASWPGA  
GVRVVVQRVYSLPSRDSTRGQGGASSGHTDPAGTRACLLVQDACGMFGEVHLEFTMSKAR  
QLEGKSCSLVGMKVLQKVTRGRTAGIFSLIDTLWPPAIPKTPGRDQPCEEIKTHLPPPA  
LCYILTAHPNLGGIDIIDEDPIYKLYQPPVTRCLRDILQMNDLGRCSFYATVIYQKPQL  
KSLLLLEQREIWLVTDLTQKEERDPRLPKTLVYVAPLCVLGSEVLEALAGAAPHSL  
FFKDALRDQGRIVCAERTVLLLQKPLLSVVSASSCELPGPVMLDSDLDSATPVNSICSVQ  
GTVVGDESTAFSWPVCMDMCGNRLEQRPEDRGAFSCGDCSRVVTSPVLKRHLQVFLDCR  
SRPQCRVKVKLLQRSISSLLRFAAGEDGSYEVKSVLGKEVGLLNCVQSVTAHPTSCIGL  
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>sp|Q9Y657|SPIN1\_HUMAN Spindlin-1 OS=Homo sapiens GN=SPIN1 PE=1 SV=3

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GWKEGNGPVTQWKGTVLDQVPVNPSLYLIKYDGFDCVYGLELNKDERVSALEVLPRVAT  
SRISDAHLADTMIGKAVEHMFETEDGSKDEWRGMVLARAPVMNTWFIITYEKDPVLYMYQ  
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SVYFIKFDDDFHIYVYDLVKTS

>sp|O95149|SPN1\_HUMAN Snurportin-1 OS=Homo sapiens GN=SNUPN PE=1 SV=1

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VVVCPVGKRALIVASRGSTSAYTKSGYCVNRFSSLLPGGNRRNSTAKDYTILDCIYNEVN  
QTYYYLDVMCWRGHPFYDCQTDFRFYWMHSLPEEEGLGEKTKLNPFKFVGLKNFPCTPE



SLCDVLSMDFPFVEVDGLLFYHKQTHYSPGSTPLVGWLRPYMVSDVLGVAVPAGPLTTKPD  
YAGHLQQQIMEHKKSQKEGMKEKLTHKASENGHYELEHLSTPKLKGSSHSPDHPGCLMEN  
>sp|Q13103|SPP24\_HUMAN Secreted phosphoprotein 24 OS=Homo sapiens GN=SPP2 PE=1 SV=1  
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FRAFRSSLKRVEVLDENNLVMNLEFSIRETTCKRDSGEDPATCAFQRDYVSTAVCRSTV  
KVSAQQVQGVHARCSWSSSTSESYSSEEMIFGDMLGSHKWRNNYLFGLISDESISEQFYD  
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>sp|Q8TCT8|SPP2A\_HUMAN Signal peptide peptidase-like 2A OS=Homo sapiens GN=SPPL2A PE=1  
SV=2

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FPPSGNRSEFPDVKILIAFISYKDFRDMNQTLGDNITVKMYSWPVNFDTMVVIFVIAV  
FTVALGGYWSGLVELENLKAVTTEDREMRKKKEEYLTFSPLTVVIFVVICCVMMVLLYFF  
YKWL VYVMI AIFC IASAMSYNCLAA LIHKIPY GQCTIACRGKNMEVRLIFLSGLCIAVA  
VVWAVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLYDVFFVITPF  
ITKNGESIMVELAAGPFGNNEKLPVVI RVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLI  
AYCRRFDVQTGSSYIYVVSSTVAYAIGMILTFVVLVLMKKGPALLYLPVCTLITASVVA  
WRRKEMKKFWKGSYQMDHLDCATNEENPVISGEQIVQQ

>sp|Q8TCT6|SPPL3\_HUMAN Signal peptide peptidase-like 3 OS=Homo sapiens GN=SPPL3 PE=1 SV=1

MAEQTYSWAYSLVDSQVSTFLISILLIVYGSFRSLNMDFENQDKEKDSNSSSGSFNGEQ  
EPIIGFQPM DSTRARFLPMGACVSLVMFFFFDSVQVVF TICTAVLATIAFAFLLLP MCQ  
YLTRPCSPQNKISFGCCGRFTA AELLSFSLSVMLVLIWVLTGHWLLMDALAMGLCVAMIA  
FVRLPSLVKVSCLLSGLLIYDVFWVFFSAYIFNSNMVMKVATQPADNPLDVLSRKLHLGP  
NVGRDVPRLSLPGKLVFPSSTGSHFSMLGIGDIVMPGLLLCFVLRDNYKKQASGDSCGA  
PGPANISGRMKVSYFHCTLIGYFVGLLTATVASRIHRAAQALLYLPFTLLPLLT MAY  
LKGD LRRMWSEPFHKS SSSSRFLEV

>sp|P22531|SPR2E\_HUMAN Small proline-rich protein 2E OS=Homo sapiens GN=SPRR2E PE=2 SV=2

MSYQQQCKQPCPPVCPTPKCEPCPPPKCEPCPPPKCPQPCPPQCCQKCPPVTPS  
PPCQPKCPPKSK

>sp|P49903|SPS1\_HUMAN Selenide, water dikinase 1 OS=Homo sapiens GN=SEPHS1 PE=1 SV=2

MSTRESFNPEYELDKSFRLTRFTELKGTGCKVPQDVLQKLESLENHFQEDEQFLGAV  
MPRLGIGMDTCV IPLRHGGLSLVQT TDYIYPIVDDPYMMGRIACANVLS DLYAMGVTECD  
NMLMLLGVS NKMTDRERDKVMPLIIQGFKDA AEEAGTSVTGGQTVLNPWIVLGGVATTVC  
QPNEFIMP DNAVPGDVLVLT KPLGTQVAVAVHQWLDIPEKWNKIKLVVTQEDVELAYQEA  
MMNMARLNRTAAGLMHTFNAHAATDITGFGILGHAQNLAKQQRNEVSFVIHNL PVLAKMA  
AVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFCAEIKSPKYGEGHQAWIIGIVEKG  
NRTARIIDKPRIIEVAPQVATQNVNPTPGATS

>sp|Q68D10|SPT2\_HUMAN Protein SPT2 homolog OS=Homo sapiens GN=SPTY2D1 PE=1 SV=3

MDFREILMIASKGQGVNNVPKRYSLAVGPPKKDPKVKGVQSAAVQAFLKRKEEELRRKAL  
EEKRRKEELVKKRIELKHKKARAMAKRTKDNFHYNGIPIEEKSKKRQATESHTSQGTD  
REYEMEEENEFL EYNHAESEQEYEEEQEPPKVESKPKVPLKSAPPPMNFTDLLRLAEKKQ  
FEPVEIKVVKKSEERPMTAEELREREFLEKRRKKLETDGKLPTVSKKAPSQKESVGT  
KLSKSGDRHPSSKGMPLPHAEEKSRPSMANEKHLALSSSKSMPGERIKAGSGNSSQPSL  
REGHDKPVFNGAGKPHSSTSSPSVPKTSASRTQKSAVEHKAKKSLSHPSHSRPGPMVTPH

NKAKSPGVRQPGSSSSAPGQPSTGVARPTVSSGPVPRRQNGSSSSGPERSISGSKKPTN  
DSNPSRRTVSGTCGPGQPASSSGGPRPISGSVSSARPLGSSRGPRPVSSPHELRRPV  
GLGPPGRSVSGPGRSISGSIPAGRTVSNSVGRPVSSLGPGQTVSSSGPTIKPKCTVVSE  
TISSKNIISRSSNGQMNGMKPPLSGYRAAQGPQRLPFPTGYKRQREYEEEDDDDEYDSE  
MEDFIEDEGEPEEEISKHIREIFGYDRKKYKDESDYALRYMESSWKEQQKEEAKSLRLGM  
QEDLEEMRREEEEMQRRRAKKLKRR

>sp|Q7KZ85|SPT6H\_HUMAN Transcription elongation factor SPT6 OS=Homo sapiens GN=SUPT6H  
PE=1 SV=2

MSDFVESEAESEEEYNDGEVVPRTTKKFVEEEDDDEEEENLDDQDEQGNLKGFIN  
DDDEDEGEDEGSDSGDSEDDVGHKKRKRTSFDDRLEDDDFDLIEENLGVKVKGQKYRR  
VKKMSDDDDDEEYGYKEEHEKEAIAEEIFQDGEGEGQEAMEAPMAPPEEEEDDEESD  
IDDFIVDDDGQLKPKWRKKLPGYTDAALQEAQEIFGVDFDYDEFEKYNEYDEELEEEY  
EYEDDEAEGEIRVRPKKTTKKRVSRRSIFEMYEPSELESSHLTDQDNEIRATDLPERFQL  
RSIPVKGAEDELEEEADWIYRNAFATPTISLQESCDYLDRGQPASSFSRKGPSTIQKIK  
EALGFMRNQHFVPIAFYRKEYVEPELHINDLRVWQWDEKWTQLRIRKENLTRLFEKM  
QAYQYEQISADPDKPLADGIRALDTTMERLKDVSMDLKDVTYNHFLYYGRDIPKMQN  
AAKASRKKLKRVEEGDEEGEGDEAEDEEQRGPPELQASRRDMYTICQSAGLDGLAKKFG  
LTPEQFGENLRDSYQRHETEQFPAEPLAKDYVCSQFPTPEAVLEGARYMVALQIAREP  
LVRQVLRQTFQERAKLNITPTKKGRKDVDEAHYAYSFKYLNKPKVKELRDDQFLKICLAE  
DEGLTTDISIDLKGVEGYGNDQTYFEEIKQFYRDEFHQVQEWNRQRTMAIERALQQF  
LYVQMAKELKNKLLAEKEYVIKACSRKLYNWLRVAPYRPDQQVEEDDDFMDENQGGKIR  
VLGIAFSSARDHPVFCALVNGEGEVTDFLRPLPHFTKRRTAWREEEREKKAQDIETLKKFL  
LNKKPHVTVAGENRDAQMLIEDVKRIVHELDQGGQLSSIGVELVDNELAILYMNSKKSE  
AEFRDYPPVLRQAVSLARRIQDPLIEFAQVCSSDEDILCLKFHPLQEHVVKEELLNALYC  
EFINRVNEGVVDNRAIAHPYSQALIQYVCGLGPRKGTHLLKILKQNNTRLESRTLVTM  
CHMGPKVFMNCAGFLKIDTASLGSDTSYIEVLGSRVHPETYEWARKMAVDALEYDESA  
EDANPAGALEEILENPERLKDLDLDAFAEELERQGYGDKHITLYDIRAELSCRYKDLRTA  
YRSPNTEEIFNMLTKETPETFYIGKLIICNVTGIAHRRPQGESYDQAIRNDETGLWQCPF  
CQQDNFPELSEVWNHFDGSCPGQAIGVKTRLDNGVTGFIPTKFLSDKVVKRPEERVKVG  
MTVHCRIMKIDIEKFSADLTCRTSDLMRNNWKLPKDTYYDFDAEAADHKQEEDMKRKQ  
QRTTYIKRVIAHPSFHNINFKQAEEKMETMDQGDVIRPSSKGENHLTVTWKVS DGIYQH  
VDVREEGKENAFSLGATLWINSEEFDLDEIVARYVQPMASFARDLLNHKYYQDCSGGDR  
KKLEELLIKTKKEKPTFIPYFICACKELPGKFLGYQPRGKPRIEYVTVTEGFRYRGQI  
FPTVNGLFRWFKDHYQDPVPGITPSSSRTRTPASINATPANINLADLTRAVNALPQNMT  
SQMFSATAAVTGQGNPNATPAQWASSQYGYGGSGGSSAYHVFPTPAQQPVATPLMTPS  
YSYTTSPQPIITPQYHQLQASTTPQSAQAQPPSSSSRQRQQPKSNSHAAIDWGKMAEQ  
WLQEKEAERRKQKQRLTPRPSPSPMIESTPMSIAGDATPLLDMDR

>sp|Q5VSR9|SPXN1\_HUMAN Sperm protein associated with the nucleus on the X chromosome N1  
OS=Homo sapiens GN=SPANXN1 PE=3 SV=1

MEQPTSSINGEKRKSPCESNNENDEMQETPNRDLAPEPSLKKMKTSEYSTVLAFCYRKAK  
KIHSNQLENDQS

>sp|Q13501|SQSTM\_HUMAN Sequestosome-1 OS=Homo sapiens GN=SQSTM1 PE=1 SV=1  
MASLTVKAYLLGKEDAAREIRRFSCCSPEPEAEAEAAAGPGPCERLLSRVAALFPALRP  
GGFQAHYRDEGDVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRRDHRPPCAQEAPRN

MVHPNVICDGCNGPVVGTRYKCSVCPDYDLCSVCEGKGLHRGHTKLAFSPFGHLSEGFS  
HSRWLRKVKHGHFGWPGWEMGPPGNWSPRPPRAGEARPGPTAESASGPSSEDPVSNFLKNV  
GESVAAALSPLGIEVDIDVEHGGKRSRLTPVSPESSTEESQSSCCSDPSKPGGNV  
EGATQSLAEQMRKIALESEGRPEEQMESDNCSSGDDDWTHLSSKEVDPSTGELQSLQMP  
SEGSSLDPSQEGPTGLKEAALYPHLPPEADPRLIESLSQMLSMGFSDEGGWLTRLLQTK  
NYDIGAALDTIQYSKHPPPL

>sp|Q12772|SRBP2\_HUMAN Sterol regulatory element-binding protein 2 OS=Homo sapiens  
GN=SREBF2 PE=1 SV=2

MDDSGELGGLETMETLTGDELTLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGGS  
GSSSGSSGSSSSSSNGRSGSSGAVDPSVQRSFTQVTLPSFSPSAASPQAPTLQVKVSPTS  
VPTTPRATPILQPRPQPQPQTQLQQQTVMITPTFSTTPQTRIQQPLIYQNAATSFQV  
LQPQVQSLVTSSQVQVPTIQQQVQTVQAQRVLTQTANGTLQTLAPATVQTVAAPVQVQVP  
VLVQPQIIKTDSLVTTLKTDGSPVMAAVQNPALTALTPITQTAALQVPTLVGSSGTILT  
TMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTTHNIEKRYRSSINDKIEELKDLVMGT  
DAKMHKSGVLRKAIDYIKYLQQVNHLRQENMVLKLANQKNLLKGIDLGLVDNEVDLK  
IEDFNQNVLLMSPPASDSGSQAGFSPYSIDSEPGSPLDDAKVKDEPDSPVALGMVDRS  
RILLCVLTFLCLSFNPLTSLLQWGAHDSQHPHSGSGRSVLSFESGSGGWFDWMMPTLL  
LWLNVGVIVLSVFKLLVHGEPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAGNLQTC  
LAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCRRATPATEAGFEDEAK  
TSARDAALAYHRLHQLHITGKLPAQSACSDVHMALCAVNLAECAEEKIPPSTLVEIHLTA  
AMGLKTRCGGKLGFLASYFLSRAQSLCGPEHSAVPDSLRWLCHPLGQKFFMERSWSVKSA  
AKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPQAKKKAGDQEEESCEFSSALEY  
LKLLHSFVDSVGMSPPLSRSSVLKSALGPDICRWWTSAITVAISWLQGDAAVRSHFT  
KVERIPKALEVTESPLVKAIFHACRAMHASLPGKADGQSSSFCHCERASGHLWSSLNVSG  
ATSDPALNHVVQLLTCDLLSLRTALWKKQASASQAVGETYHASGAELAGFQRDLGSLRR  
LAHSFRPAYRKVFLHEATVRLMAGASPTRTHQLLEHSLRRRTTQSTKHGEVDAWPGQRE  
ATAILLACRHLPLSFLSSPGQRAVLLAEAARTLEKVGDRRSCNDCQQMIVKLGGGTAAIAA  
S

>sp|094875|SRBS2\_HUMAN Sorbin and SH3 domain-containing protein 2 OS=Homo sapiens  
GN=SORBS2 PE=1 SV=3

MSYYQRPFSAYSPLASLNSSIVMQHGTSLDSTDTYPQHAQSLDGTSSSIPLYRSSEE  
EKRVTVIKAPHYPGIGPVDESGIPTAIRTTVDPRKDWYKTMFKQIHMVHKPDDDTDMYNT  
PYTYNAGLYNPPYSAQSHPAAKTQTYRPLSKSHSDNSPNAFKDASSPVPPPHVPPVPPL  
RPRDRSSTEKHDWDPDRKVDTRKFRSEPRIFEFYEPGKSSILQHERPASLYQSSIDRSL  
ERPMSASMASDFRKRKSEPAVGPPRGLGDSASRTSPGRVDLPGSSTTLTKSFTSSSP  
SSPSRAKGGDDSKICPSLCSYGLNGNPSELDYCYSTYRQHLDVPRDSPRAISFKNGWQM  
ARQNAEISWSTEETVSPKIKRSRSCDDLNDCCDSFPDPKVKSESMGSLCEEDSKESCPM  
AWGSPYVEVRSNGRSRIRHRSARNAPGFLKMYKKMHRINRKDLNSEVICSVKSRILQY  
ESEQQHKDLLRAWSQCSTEEVPRDMVPTRISEFEKLIQKSKMPNLGDDMLSPVTLEPPQ  
NGLCPKRRFSIEYLLEENQSGPPARGRRGCQSNALVPIHIEVTSDEQPAHVEFSDSDQ  
DGVVSDHSDYIHLEGSSFCSESDFDHFSFTSSSESYGSSHHHHHHHHHHRHLISSCKGR  
CPASYTRFTTMLKHERARHENTEEP RRQEMDPGLSKLAFLVSPVPFRRKNSAPKKQTEK  
AKCKASVFEALDSALKDIDCQIKAEEKRGSLPDNSILHRLISELLPDVPERNSSLRALRR  
SPLHQPLHPLPPDGAIHCPYQNDCGRMPRSASFQDVTANSSCHHQDRGGALQDRESPR

SYSSTLTDMGRSAPRERRGTPEKEKLPAKAVYDFKAQTSKELSFKKGDVYILRKIDQNW  
YEGEHHGRVGIFPISYVEKLTPPEKAQPARPPPPAQPGEIGEAIKYNFNADTNVELSLR  
KGDRVILLKRVDQNWYEGKIPGTNRQGIFVSYVEVVKNTKGAEDYDPPIPHSYSSDR  
IHLSSENKQRPVFTHENIQGGGEPFQALYNYTPRNEDELELRESVDIVMEKCDDGWFV  
GTSRRTKFFGTTPGNYVKRL

>sp|Q96GP6|SREC2\_HUMAN Scavenger receptor class F member 2 OS=Homo sapiens GN=SCARF2 PE=1  
SV=4

MEGAGPRGAGPARRRGAGGPPSPLLSLLLLLWMLPDTVAPQELNPRGRNVCRAPGSQ  
VPTCCAGWRQQGDECGIACEGNSTCSENEVCVRPGECRCRHGYFGANDTKCPRQFWGP  
DCKELCSCHPHGQCEDVTGQCTCHARRWGARCEHACQCQHGTCPRSGACRCEPGWWGAQ  
CASACYCSATSRCDPQTGACLCHAGWWGRSCNNQCACNSSPCEQQSGRCQCRERTFGARC  
DRYQCQFRGRCHPVDGTCACEPGYRGKYCREPCPAGFYGLGCRRCGQCKGQQPCTVAEG  
RCLTCEPGWNGTKCDQPCATGFYGECSHRCPPCRDGHACNHVTGKCTRCNAGWIGDRCE  
TKCSNGTYGEDCAFCADCGSGHCDQSGRCLCSPGVHGPCNVTCPPGLHGADCAQACS  
CHEDTCDPVTGACHLETNRKGVMGAGALLVLLVCLLSLLGCCACRGKDPTRRPRPRR  
ELSLGRKKAPHRLCGRFSRISMKLPRILRRQKLPKVVAHHDLDNTLNCSEPPSGLE  
QPSPSWSSRASFSFDDTDEGPVYCVPHHEAPAESRDPEVPTVPAEAPAPSPVPLTTPAS  
AEEAIPLPASSDSERSASSVEGPGGALYARVARREARPARARGEIGGLSLSPSPERRKPP  
PPDPATKPKVSWIHGKHSAAAAGRAPSPPPPGSEAAPSPSKRKRTPSDKSAHTVEHGSPR  
TRDPTPRPGLPEEATAAAPPSPRARARAAPRPLGAHGRRRSPAKRAEAASMLAADVRG  
KTRSLGRAEVALGAQGPKEKPAPPQKAKRSVPPASPARAPPATETPGPEKAATDLPAPET  
PRKKTPIQKPPRKSREAAGELGRAGAPTL

>sp|Q8WXA9|SREK1\_HUMAN Splicing regulatory glutamine/lysine-rich protein 1 OS=Homo  
sapiens GN=SREK1 PE=1 SV=1

MTSLMPGAGLLPIPTPNPLTTLGVSLSSLGAIPAAALDPNIATLGEIPQPPLMGNVDPSK  
IDEIRRTVYVGNLNSQTTTADQLLEFFKQVGEVKFVRMAGDETQPTRFAFVEFADQNSVP  
RALAFNGVMFGDRPLKINHNNIAIVKPPMTQAAAKELEEVMKRVREAQSFISAAIEPE  
SGKSNERKGGRSRSHTRSKSRSSSKSHSRKRKRSQSKHRSRSHNRSRSRQKDRRSKSPHK  
KRKSKRERRKSRSRSHSRDKRDKDTREKIKEKERVKEKDREKEREREKEREKEKERGKNKD  
RDKEREKDREKDKEDREREREKEHEKDRDKEKEKEQDKEKEREKDRSKEIDEKRKKDKK  
SRTPPRSYNASRRSRSSSRERRRRRSRSSSRSPRTSKTIKRKSSRSPSPRSNKKDKKRE  
KERDHISERRERERSTMRKSSNDRDGKEKLEKNSTSLKEKEHNKEPDSSVSKEVDDKDA  
PRTEENKIQHNGNCQLNEENLSTKTEAV

>sp|Q8NEF9|SRFB1\_HUMAN Serum response factor-binding protein 1 OS=Homo sapiens GN=SRFBP1  
PE=1 SV=1

MAQPGTLNLNNEVVKMRKEVKRIRVLVIRKLVRVGRGLKSKKGTEDALLKNQRRARLLE  
EIHAMKELKPDIVTKSALGDDINFEEKIFKKPDSTATERAIAARLAVHPLLKKKIDVLKAAV  
QAFKEARQNAVEESSKNAEDNHSENTLYSNDNGSNLQREATVISEQVKETKILAKKP  
IHNSKEKIAKMEHGPKAVTIANSPSKPSEKDSVVSLESQKTPADPKLKTLSQTKKNKGSD  
SSLGNSDGGEEFCEEEKEYFDDSTEERFYKQSSMSSEDSGDDFFIGKVRRTKKESSC  
HSSVKEQKPLEKVFLKEDTGETHGDTRNDKIKPSTETRKLVSFFHSLSGSKSSRRNFKE  
QAPKTRSLDFPQNEPQIKNQFNKKLSGRLENTKQQLQLPLHPSWEASRRRKEQQSNIAVF  
QGKKITFDD

>sp|Q9UGK8|SRGEF\_HUMAN Secretion-regulating guanine nucleotide exchange factor OS=Homo sapiens GN=SERGEF PE=1 SV=2

MEREPSASEAAPAAALFAWGANSYQQLGLGHKEDVLLPQQLNDFCKPRSVRRITGGGGH  
SAVVTDDGGDLFVCGLNKDGQLGLGHTEIPYFTPCSLFGCPIQQVACGWDFTIMLTENG  
QVLSCGSNSFGQLGVPHGPRRCVVPQAIELHKEKVVCIAAGLRHAVAATASGIVFQWGTG  
LASCGRRLCPGGTLPFFTAKEPSRVTGLENSKAMCVLAGSDHSASLTDAGEVYVWGSNK  
HGQLANEAAFLPVPQKIEAHCFQNEKVTAIWSGWTHLVAQTETGKMFTWGRADYGQLGRK  
LETYEGWKLEKQDSFLPCRPPNSMPSSPHCLTGATEVSCGSEHNLAIIIGVCYSWGWN  
HMGCGDGTANVWAPKPVQALLSSSGLLVGCGAGHSLALCQLPAHPALVQDPKVTYLSPD  
AIEDTESQKAMDKERNWKERQSETSTQSQSDWSRNGGL

>sp|P10124|SRGN\_HUMAN Serglycin OS=Homo sapiens GN=SRGN PE=1 SV=3

MMQKLLKCSRLVLALALILVLESSVQGYPTRRARYQWVRCPDSNSANCLEEKGPMFELL  
PGESNKIPRLRTDLFPKTRIQLNRIPLSEDSGSGFGSGSGSGSGSGFLTEMEQDY  
QLVDESDAFHDNLRSLDRNLPSDSQDLGQHGLEEDFML

>sp|O43295|SRGP3\_HUMAN SLIT-ROBO Rho GTPase-activating protein 3 OS=Homo sapiens GN=SRGAP3 PE=1 SV=3

MSSQTKFKKDKETIAEYEAQIKEIRTLVEQFKCLEQQSESRLQLLQDLQEFFRRKAEIE  
LEYSRSLEKLAERFSSKIRSSREHQFKDQYLLSPVNCWYLVLHQTRRESRDHATLNDIF  
MNNVIVRLSQISEDVIRLFKKSKEIGLQMHEELLKVTNELYTMKTYHMYHAESISAESK  
LKEAEKQEEKQFNKSGDLSMNLLRHEDRPQRRSSVKKIEKMKEKRQAKYSENKLKCTKAR  
NDYLLNLAATNAAISKYIHDVSLIDCCDLGFHASLARTFRTYLSAEYNLETSRHEGLD  
VIENAVDNLDSRDKHTVMDMCNQVFCPPLKFEFQPHMGDEVCCVSAQQPVQTELLMRYH  
QLQSRLATLKIENEEVRKTLDATMQTLQDMLTVEDFDVSDAFQHSRSTESVKSAASETYM  
SKINIAKRRANQQETEMFYFTKFKEYVNGSNLITKLQAKHDLLKQTLGEGERAECGTTRP  
PCLPPKPKQKMRPRPLSVYSHKLFNGSMEAFIKDSGQAIPLVVESCIRYINLYGLQQQGI  
FRVPGSQVEVNDIKNSFERGEDPLVDDQNERDINSVAGVLKLYFRGLENPLFPPERFQDL  
ISTIKLENPAERVHQIQQILVTLPRVVIVMRYLFAFLNHLNQYSDENMMDPYNLAICFG  
PTLMHIPDGDQPVSCQAHINEVIKTIHHEAIFPSPRELEGPVYEKCMAGGEEYCDSPH  
SEPGAIDEVDHDNGTEPHTSDEEVEQIEAIAKFDYMGSRPRELSFKKGASLLLYHRASED  
WWEGRHNGVDGLIPHQYIVVQDMDAFSDSLSQKADSEASSGPLDDKASSKNDLQSPTE  
HISDYGFGGVMGRVRLRSDGAIPRRRSGGDTHSPRGLGPSIDTPPRAAACPSPPHKIP  
LTRGRIESPEKRRMATFGSAGSINYPDKKALSEGHSRSTCGSTRHSSLGDHKSLEAEAL  
AEDIEKTMSTALHELRELERQNTVKQAPDVVLDLLEPLKNPPGPVSSEPASPLHTIVIRD  
PDAAMRRSSSSSTEMMTTFKPALSARLAGAQLRPPPMRPVRPVVQHRSSSSSSSGVGSPA  
VTPTEKMFPNSSADKSGTM

>sp|P08240|SRPRA\_HUMAN Signal recognition particle receptor subunit alpha OS=Homo sapiens GN=SRPRA PE=1 SV=2

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QFELVFVVGFKILTLTYVDKLIIDVHRLFRDKYRTEIQQQSALSLLNGTFDFQNDFLRL  
LREAESSKIRAPTTMKKFEDSEKAKKPVRSMIETRGEKPKKAKNSKKKGAKKEGSDGP  
LATSKPVPAEKSGLPVGPENGVELSKEELIRRKREEFIQKHGRGMEKSNKSTKSDAPKEK  
GKKAPRVWELGGCANKEVLDTPTTNGTPEAALSEDINLIRGTGSGGQLQDLDCSSDD  
EGAAQNSTKPSATKGTGGMFGMLKGLVGSKSLSREDMESVLDMRDHLIAKNVAADIAV  
QLCESVANKLEGKVMGTFSTVTSTVKQALQESLVQILQPQRRVDMLRDIMDAQRRQRPYV

VTFCGVNGVGKSTNLAKISFWLLENGFSVLIAACDTFRAGAVEQLRTHTRRLSALHPPEK  
HGGRTMVQLFEKGYGKDAAGIAMEAIAFARNQGFDVVLVDTAGRMQDNAPLMTALAKLIT  
VNTPDVLVFGVGEALVGN EAVDQLVKFNALADHSMAQTPRLIDGIVLTKFDTIDDKVGAA  
ISMTYITSKPIVFGVTGQTYCDLRSLSNAKAVVAALMKA

>sp|Q9UH36|SRR1L\_HUMAN SRR1-like protein OS=Homo sapiens GN=SRRD PE=2 SV=1

MAAAAAAALSWQAAAPRKRSAARRPRREAAPRGREAAAPRGREAAAPRGPEAEFESDSG  
VVLRRIWAEKDLFISDFWSSALETINRCLTKHLEQLKAPVGTLSDFGNLHLDLSLPEES  
DVATDSIPREILVTGTCHLKVCYGYGNFATCIVARNQLTFLLLLLEKQIPRSHCWVYD  
PLFSQLEIEVLNTLGVTVLSENEEGKRSIRGEPTIFYMLHCGTALYNNLLWSNWSVDALS  
KMVIIGNSFKGLEERLLARILQKNYPYIAKILKGLEELEFPQTSQYMDIFNDTSVHWFVPV  
QKLEQLSIDIWEFREEDPYQDCEDLEIIRNKREDPSATD

>sp|A6NNA2|SRRM3\_HUMAN Serine/arginine repetitive matrix protein 3 OS=Homo sapiens  
GN=SRRM3 PE=2 SV=4

MSSTVNNGAASMQSTPDAANGFPQPSSSSGTWPRAEEELRAAEPGLVKRAHREILDHERK  
RRVELKCMELQEMMEEQGYSEEEIRQKVGTFRQMLMEKEGVLTRDRPGGHIVAETPRLT  
EGAEPGLEYPFDDDDGPVDCDCPASCYRGHRGYRTKHWSSSSASPPPKKKKKKKGGHRR  
SRKKRRLESECSCGSSSPLRKKKSVKKHRRDRSDSGSRRKRRHRSRSSKCKRKEKNKEK  
KRPHTESPGRSHRHSSGSSHSPSLSSHYSRSRSPRLSPKHRDEGRKTGSQRSSGSRSP  
SPSGSGWGSPQRNGSGQRSGAHGGRPGSAHSPPDKPSSPSRVRDAAAAAPTTPARG  
KESPSRSPASSSQGRGGAAGGAGRRRRRRRRRRRRSSASAPRRRGRRRPRPAPRGSS  
RSLSRARSSSDSGSGRGAPGPGPEPGSERGHGGHGKRAKERPPRARASTSPSPGAHGRR  
GGPEGKSSSRSPGPHPSWSSSRSPSKSRSRSAEKRPSPSRSPSPKKPLSRDKDGEGRA  
RHSEAEATRARRRRSRSPYPIRKRRRSDSPSFMEPRRITSAAVLFHTTGPAPLPPAA

>sp|Q13242|SRSF9\_HUMAN Serine/arginine-rich splicing factor 9 OS=Homo sapiens GN=SRSF9  
PE=1 SV=1

MSGWADERGGEGDRIYVGNLPTDVREKDLDFYKYGRIEIELKNRHGLVPFAFVRFE  
DPRDAEDAIYGRNGYDYGCRLRVEFPRTYGGRGGWPRGGRNGPPTRRSDFRVLVSLP  
SGSWQDLKDHMREAGDVCYADVQKDGVMVEYLKEDMEYALRKLDLTKFRSHEGETSYI  
RVYPERSTSYGYSRSGSRGRDSPYQSRGSPHYFSPFRPY

>sp|Q9NQ55|SSF1\_HUMAN Suppressor of SWI4 1 homolog OS=Homo sapiens GN=PPAN PE=2 SV=1

MGQSGRSRHRQKRARAQAQLRNLEAYAANPHSFVTRGCTGRNIRQLSLDVRVMPLTAS  
RLQVRKKNLSLKDCVAVAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTFQVKKYSVRD  
VVSSLRRHRMHEQQFAHPPLLVLNSFGPHGMHVKLMATMFQNLFPSINVHKVNLNTIKRC  
LLIDYNPDSQELDFRHSYIKVVPVGASRGMKLLQEKFPNMSRLQDISELLATGAGLSES  
EAEPDGDHNITELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF  
VSKTEEELQAILEAKEKKRLKLAQRQAQQAQNVQRKQEQREAHKKSLGEMKKARVGGSD  
EEASGIPSRTASLELGEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRK  
RWEMDRGRGRLCDQKFPKTKDKSQGAQARRGPRGASRDGGGRGRGRPGKRVA

>sp|Q8TE77|SSH3\_HUMAN Protein phosphatase Slingshot homolog 3 OS=Homo sapiens GN=SSH3  
PE=1 SV=2

MALVTVSRSPPGSGASTPVGPWDQAVQRRSRLQRRQSFVLRGAVLGLQDGGDNDDAAEA  
SSEPTKAPSEEEHGDQTDGFGQGSQSPQKQEEQRHLHLMVQLLRPQDDIRLAAQLEAP  
RPPRLRYLLVVSTREGEGLSQDETVLVGVDSPSSPSCTLGLVLPLWSDTQVYLDGDGG  
FSVTSGGQSRIFKPIISIQTMWATLQVLHQACEAALGSGLVPGGSALTWASHYQERLNSEQ

SCLNEWTAMADLESLRPPSAEPGGSSESEQMEQAIRAELWKVLDVSDLESVTSKEIRQAL  
ELRLGLPLQQYRDFIDNQMLLLVAQRDRASRIFPHLYLGSEWNAANLEELQRNRVTHILN  
MAREIDNFYPERFTYHNVRWLWDEESAQLLPHWKETHRFIEAARAQGTHVLVHCKMGVSRS  
AATVLAYAMKQYECSEALRHVQELRPIARPNGFLRQLQIYQGILTASRQSHVWEQKV  
GGVSPEEHPAPEVSTPFPLPPEPEGGGEEKVVGMEESQAAPKEEPPRPRINLRGVMRS  
ISLLEPSLELESTSETSDMPEVFSSHESSHEEPLQFPQLARTKGGQQVDRGPQPALKSR  
QSVVTLQGSAVVANRTQAFQEQQGQGGQGEPCISSTPRFRKVVRQASVHDSGEEGEA

>sp|P30872|SSR1\_HUMAN Somatostatin receptor type 1 OS=Homo sapiens GN=SSTR1 PE=1 SV=1

MFPNGTASSPSSPSPSPGSCGEGGSRGPGAGAADMEEPGRNASQNGTLSEGQGSAIL  
ISFIYSVVCLVGLCGNSMVIYVILRYAKMKTATNIYILNLAIADELLMLSVPLVTSTLL  
RHWPFGALLCRLVLSVDVNMFTSIYCLTVLSVDYVAVVHPIKAARYRRPTVAKVVNLG  
VWVLSLLVILPIVFSRTAANSDGTVACNMLMPEPAQRWLVGFLYTFMLGFLLPVGAIC  
LCYVLIIAKMRMVALKAGWQQRKRSEKITLEMVMVMVVFVICWMPFYVVLNVFAEQD  
DATVSQLSVILGYANSCANPILYGFLSDNFKRSFQRI LCLSWMDNAAEEPVDYYATALKS  
RAYSVEDFQPENLESGGVFRNGTCTSRITTL

>sp|Q9NP77|SSU72\_HUMAN RNA polymerase II subunit A C-terminal domain phosphatase SSU72  
OS=Homo sapiens GN=SSU72 PE=1 SV=1

MPSSPLRVAVVCSSNQNRSMEAHNILSKRGFSVRSFGTGTHVKLPGPAPDKPNVYDFKTT  
YDQMYNDLLRKDKELYTQNGILHMLDRNKRKIPRPERFQCKDLFDLILTCEERVYDQVV  
EDLNSREQETCQPVHVNVNDIQDNHEEATLGAFLICELCQCIQHTEDMENEIDELLQEFE  
EKSGRTFLHTVCFY

>sp|Q9Y2M2|SSUH2\_HUMAN Protein SSUH2 homolog OS=Homo sapiens GN=SSUH2 PE=1 SV=1

MPSPVGLLRALPLPWPQFLACTLRLAGPRESTGPSQKPPPLCSVPCRVPAMTEEVAREA  
LLSFVDSKCCYSSTVAGDLVIQELKRQTLCRYRLETFSERISEWTFQPTNHSVDGPQR  
GASPRLDIKVQGPPMFQEDTRKFQVPHSSLVKECHKCHGRGRYKCSGCHGAGTVRCPSC  
CGAKRKAKQSRRCQLCAGSGRRRCSTCSGRGNKTCATCKGEKKLLHFIQLVIMWKNSLFE  
FVSEHRLNCPRELLAKAKGENLFKDENSVVYPIVDFPLRDISLASQRGIAEHSAAALASRA  
RVLQQRQTIELIPLTEVHYWYQKTYVYYIYGTDHQVYAVDYPERYCCGCTIV

>sp|Q99909|SSX3\_HUMAN Protein SSX3 OS=Homo sapiens GN=SSX3 PE=1 SV=2

MNGDDTFARRPTVGAQIPEKIQKAFDDIAKYFSKEEWEKMKVSEKIVYVYMKRKYEAMTK  
LGFKAILPSFMRNKRVTDFQGNDFDNDPNRGNQVQRPQMTFGRLQGIFPKIMPKPAEEG  
NVSKEVPEASGPQNDGKQLCPPGKPTTSEKINMISGPKRGEHAWTHRLRERKQLVIYEEI  
SDPEEDDE

>sp|Q8WVM7|STAG1\_HUMAN Cohesin subunit SA-1 OS=Homo sapiens GN=STAG1 PE=1 SV=3

MITSELPVLQDSTNETTAHSDAGSELEETEVEKGRKRGRPRPPSTNKKPRKSPGEKSRI  
EAGIRGAGRGRANGHPQQNGEGEPVTLFEVVKLGKSAMQSVVDDWIESYKQDRDIALLDL  
INFFIQCSGCRGTVRIEMFRMQNAEIIIRKMTTEEFDEDSGDYPLTMPGPQWKKFRSNFCE  
FIGVLIRQCQYSIIYDEYMMDTVISLLTGLSDSQVRAFRHTSTLAAMKLM TALVNVALNL  
SIHQDNTQRQYEAERNKMIGKRANERLELLQKRKELQENQDEIENMMNSIFKGI FVHRY  
RDAIAEIRAICIEEIGVWMKMYSDAFLNDSYLKYVGWTLHDRQGEVRLKCLKALQSLYTN  
RELFPKLELFTNRFKDRIVSMTLDKEYDVAVEAIRLVTLILHGSEEALSNEDCENVYHLV  
YSAHRPVAVAAGEFLHKKLFSRHDPQAEALAKRRGRNSPNGNLI RMLVLFLESELHEH  
AAYLVDSLWESSQELLKDWECMTELLLEPVQGEEAMSDRQESALIELMVCTIRQAAEAH  
PPVGRGTGKRVLTAKERKTQIDDRNKLTEHFIITLPMLLSKYSADA EKVANLLQIPQYFD

LEIYSTGRMEKHL DALLKQIKFVVEKHVESDVLEACSKTYSILCSEETYIQNRVDIARSQ  
LIDFVDRFNH SVEDLLQE GEEADDDDIYNVLS TLKRLTSFHNAHDLTKWDLFGNCYRLL  
KTGIEHGAMPEQIVVQALQCSHYSILWQLVKITDGSPSKEDLLVLRKTVKSFLAVCQQCL  
SNVNTPVKEQAFMLLCDLLMIFSHQLMTGGREGLQPLVFNPD TGLQSELLSFVMDHVFID  
QDEENQSMEGDEEDEANKIEALHKRRNLLAAFSKLI IYDIVDMHAAADIFKH YMKYYNDY  
GDI IKETLSKTRQIDKIQCAKTLILSLQQLFNELVQEQGPNLDRTSAHVSGIKELARRFA  
LTFGLDQIKTREA VATLHKDGI EFAFKYQNKQKGQEYPPPNLAFLEVLSEFSSKLLRQDKK  
TVHSYLEKFLTEQMMERREDVWLPLISYRNSLV TGGEDDRMSVNSGSSSKTSSVRNKKG  
RPPLHKKRVEDESLNTWLNRTDTMIQTPGPLPAPQLTSTVLRENSRPMGDQIQEPES E  
H GSEPDFLHNPQM QISWLGGPKLEDLNRKDRTGMNYMKVRTGVRHAVRGLMEEDAEP IFED  
VMMSSRSQLEDMNEEFEDTMVIDLPPSRNRRERAELRPDFFDSAAI IEDDSGFGMPMF

>sp|Q8N3U4|STAG2\_HUMAN Cohesin subunit SA-2 OS=Homo sapiens GN=STAG2 PE=1 SV=3

MIAAPEIPTDFNLLQESETHFSSD TDFEDIEGKNQKQKGKTKCKGKKGPAEKGGNGG  
GKPPSGPNRMNGHHQQNGVENMMLFEVVKMGKSAMQSVVDDWIESYKHDRDIALDLINF  
FIQCSGCKGVVTAEMFRHMQNSEIIRKMT EEFDEDSGDYPLTMAGPQWKKFKSSFCEFIG  
VLVRQCQYSIIYDEYMMDTVISLLTGLSDSQVRAFRHTSTLAAMKMTALVNVALNLSIN  
MDNTQRQYEAERNKMIGKRANRELELLQKRKELQENQDEIENMMNAIFKGVFVHRYRDA  
IAEIRAICIEEIGIWMKMYSDAFLNDSYLYVGTMHDKQGEVRLKCLTALQGLYNNKEL  
NSKLELFTSRFKDRIVSMTLDKEYDVAVQAIKLLTLVLQSSEEVLTAE DCENVYHLVYSA  
HRPVAVAAGEFLYKLLFSRRDPEEDGMMKRRGRQGPANLVKTLVFFFLESELHEHAAYL  
VDSMWDCATELLKDWECMNSLLLEEPLSGEEALTDRQESALIEIMLCTIRQAAECHPPVG  
RGTGKRVLTAKKKTQLDDRKTITELFAVALPQLLAKYSVDAEKVTNLLQLPQYFDLEIY  
TTGRLEKHL DALLRQIRNIVEKHTD TDVLEACSKTYHALCNEEFTIFNRVDISRSQ LIDE  
LADKFNRLLEDFLQEGEEPDEDDAYQVLSTLK RITAFHNAHDL SKWDLFACNYKLLKTGI  
ENGDMPEQIVIHALQCTHYVILWQLAKITESSTKEDLLRLKKQMRVFCQICQHYLTNVN  
TTVKEQAFTILCDILMIFSHQIMSGGRDMLEPLVYTPDSS LQSELLSFILDHVFIEQDDD  
NNSADGQQEDEASKIEALHKRRNLLAAFC KLIVYTVVEMNTAADIFKQYMKYYNDYGDII  
KETMSKTRQIDKIQCAKTLILSLQQLFNEMIQENGYNFDRSSSTFSGIKELARRFALTFG  
LDQLKTREAIAMLHKDGI EFAFKEPNPQGESH PPLNLAFDLILSEFSSKLLRQDKRTVYV  
YLEKFMTFQMSLRREDVWLPLMSYRNSLLAGGDDDTMSVISGISSRGSTVRSKSKPSTG  
KRKVVEGMQLSLTESSSSDSMWLSREQTLHTPVM MQTPQLTSTIMREPKRLRPEDSFMS  
VYPMQTEHHQTPLDYNRRGTS LMEDEEPIVEDVMSSEGRIEDLNEGMDFD TMDIDLPP  
SKNRRRETELKPDFFDPASIMDESVLGVSMF

>sp|P59095|STAR6\_HUMAN StAR-related lipid transfer protein 6 OS=Homo sapiens GN=STARD6  
PE=1 SV=1

MDFKAIAQQTAQEV LGYNRDTSGWKVVKTSKKITVSSKASRKFHGNLYRVEGIIPESPAK  
LSDFLYQTGDRITWDKSLQVYNMVHRIDS DTFICHTITQSFVAGSISPRDFIDLVIKRY  
EGNMNISSKSVDFPEYPPSSNYIRGYNHPCGFCSPMEENPAYSKLVMFVQTEMRGKLS  
PSII EKTMPSNLVNFI LNAKDGIKAHRTPSRRGFHHNSHS

>sp|Q9NQZ5|STAR7\_HUMAN StAR-related lipid transfer protein 7, mitochondrial OS=Homo  
sapiens GN=STARD7 PE=1 SV=2

MLPRRLAAWLAGTRGGLLALLANQCRFVTGLRVRAQQIAQLYGRLYSESSRRVLLGR  
LWRR LHGRPGHASALMAALAGVFVWDEERIQEEELQRSINEMKRLEEMSNMFQSSGVQHH  
PPEPKAQTEGNEDSEGKEQRWEMVMDKKHFKLWRRPITGTHLYQYRVFGTYTDVTPRQFF



NVQLDTEYRKWDALVIKLEVIERDVVSGSEVLHWVTHFPYPMYSRDYVYVRRYSVDQEN  
NMMVLVSRAVEHPSVPESPEFVRVRSYESQMVIRPHKSFDENGFDYLLTYSNPNQTVFPR  
YCVSWMVSSGMPDFLEKLHMATLAKNMEIKVKDYISAKPLEMSSEAKATSQSSERKNEG  
SCGPRIEYA

>sp|P42226|STAT6\_HUMAN Signal transducer and activator of transcription 6 OS=Homo sapiens  
GN=STAT6 PE=1 SV=1

MSLWGLVSKMPPEKVQRLYVDFPQHLRHLGDWLESQPWEFLVGSDAFCCNLASALLSDT  
VQHLQASVGEQGEGSTILQHISTLESIIYQRDPLKLVATFRQILQGEKKAVMEQFRHLPMP  
FHWKQEELKFKTGLRRLQHRVGEIHLREALQKGAEAGQVSLHSLIETPANGTGPSEALA  
MLLQETTGELEAAKALVLKRIQIWKRRQQLAGNGAPFEESLAPLQERCESLVDIYSQLQQ  
EVGAAGGELEPKTRASLTGRLDEVLRITLVTSCFLVEKQPPQVLKTQTKFQAGVRFLGLR  
FLGAPAKPPLVRADMVTEKQARELSVPQGPAGAEESTGEIINNTVPLENSIPGNCCSALF  
KNLLKKIKRCERKGTESVTEEKCAVLFSASFITLPGKLPILQLQALSPLVIVHGNQDN  
NAKATILWDNAFSEMDRVPFVVAERVPEWKMCEITNLKMAEVTNRGLLPEHFLFLAQK  
IFNDNSLSMEAFQHRSVSWSQFNKEILLGRGFTFWQWFDGVLDTKRCLRSYWSDRLIIG  
FISKQYVTSLLLNEPDGTFLRFSDSEIGGITIAHVIRGQDGSPQIENIQPFSAKDLSIR  
SLGDRIRDLAQLKNLYPKPKDEAFRSHYKPEQMGKDGRGYVPATIKMTVERDQPLPTPE  
LQMPTMVP SYDLGMAPDSSMSMLGPDMPVQVYPHSHSIPPYQGLSPEESVNVLSAFQE  
PHLQMPPSLGQMSLPFDQHPQGLPCQPQEHAVSSPDLLCSDVTMVEDSCLSQPVTAF  
PQGTWIGEDIFPPLLPTEQDLTKLLLEGQGESGGSLGAQPLLQPSHYGQSGISMSHMD  
LRANPSW

>sp|Q9Y651|SOX21\_HUMAN Transcription factor SOX-21 OS=Homo sapiens GN=SOX21 PE=2 SV=1

MSKPVDPVHVRPMNAFMVWSRAQRKMAQENPKMHNSEISKRLGAEWKLLTESEKRPFIDE  
AKRLRAMHMKHEPDYKYRPRRKPCTLKKDKFAFPVPYGLGGVADAEHPALKAGAGLHAG  
AGGGLVPESLLANPEKAAAAAAAAAAARVFFPQSAAAAAAAAAAAAAAGSPYSLDLGSKMA  
EISSSSGLPYASSLGYPTAGAGAFHGAAAAAAAAAAAAAGGHTHSHSPGNPGYMIPCNC  
SAWPSPLQPLAYILLPGMGKPLDPYPAAYAAAL

>sp|P35712|SOX6\_HUMAN Transcription factor SOX-6 OS=Homo sapiens GN=SOX6 PE=1 SV=3

MSSKQATSPFACAADEDAMTQDLTSREKEEGSDQHVASHLPLHPIMHNKPHSEELPTLV  
STIQDADWDVSLSSQRMESENNKLCSLYSFRNTSTSPHKPDEGSRDREIMTSVTFGTP  
ERRKGLADVDTLKQKKLEEMTRTEQEDSSCMEKLLSKDWKEKMERLNTSELLGEIKGT  
PESLAEKERQLSTMITQLISLREQLLAHDEQKKLAASQIEKQRQQMDLARQQQEQTARQ  
QQQLLQQQHKNLLQQQIQVQGHMPLMIPFPHDQRTLAAAAAAQQGFLFPPGITYKPG  
DNYPVQFIPSTMAAAAASGLSPLQLQKGHVSHPQINQRLKGLSDRFRNLDTFEHGGGHS  
YNHKQIEQLYAAQLASMVSPGAKMPSTPQPPNTAGTVSPTGIKNEKRGTSPTVQVKDEA  
AAQPLNLSSRPKTAEPVKSPSTQNLFPAKSTSPVNLPNKSSIPSPIGGSLGRGSSLDI  
LSSLNSPALFGDQDVTMKAIEARKMREIQREQQQQQPHGVDGKLSSINNMGLNSCRNE  
KERTRFENLGPQLTGKSNEGKLGPGVIDLTRPEDAEGSKAMNGSAAKLQYYCWPTGGA  
TVAEARVYRDARGRASSEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGSRWK  
SMSNQEKQPYEEQARLSKIHLEKYPNYKYKPRPKRTCIVDGKKLRIGEYKQLMRSRRQE  
MRQFFTVGQQPQIPITTTGTGVVYPGAITMATTPSPQMTSDCSSTSASPEPSLPVIQSTY  
GMKTDGGS LAGNEMINGEDEMEMYDDYEDDPKSDYSSENEAPAVSAN

>sp|Q6BEB4|SP5\_HUMAN Transcription factor Sp5 OS=Homo sapiens GN=SP5 PE=2 SV=1

MAAVAVLRNDSLQAFLLQDRTPSASPD LGKHSPLALLAATCSRIGQPGAAAPPDFLQVPYD

PALGSPSRLFHPWTADMPAHSPGALPPPHPSLGLTPQKTHLQPSFGAAHELPLTPPADPS  
YPYEFSPVKMLPSSMAALPASCAPAYVPYAAQAALPPGYSNLLPPPPPPPPPTCRQLSP  
NPAPDDLPPWSIPQAGAGPGASGVPGSLSGACAGAPHAPRFPASAAAAAAAAAALQRGL  
VLGPSDFAQYQSQIAALLQTKAPLAATARRCRRRCPCNCQAAGGAPEAEPGKKKQHVCHV  
PGCGKVYGKTSHLKAHLRWHTGERPFVCNWLFCGKSFTRSEDLQRHLRTHTGEKRFACPE  
CGKRFMRSDHLAKHVKTHQNKKLKVAEAGVKREDARDL

>sp|Q3SY56|SP6\_HUMAN Transcription factor Sp6 OS=Homo sapiens GN=SP6 PE=2 SV=1

MLTAVCGSLGSQHTAPASPPRLDLQPLQTYQGHTSPEAGDYPSPQLPGELQSLPLGPE  
VDFSQGYELPGASSRVTCEDESPLAPGPFSSKLLQPDMSHHYESWFRPTHGAEDGSW  
WDLHPGTSWMDLPHTQGALTSPGHPGALQAGLGGYVGDHQLCAPPPHPAHHLLPAAGGQ  
HLLGPPDGAKALEVAAPESQGLDSSLDGAARPKGSRRSVPRSSGQTVCRPCNCLEAERLG  
APCGPDGGKKKHLNCHIPGCGKAYAKTSHLKAHLRWHSGDRPFVCNWLFCGKRFRSDE  
LQRHLQTHGTGKFKPACVCSRVFMRSDHLAKHMKTHEGAKEEAAGAASGEGKAGGAVEPP  
GGKGRKREAGSVAPSN

>sp|Q8TDD2|SP7\_HUMAN Transcription factor Sp7 OS=Homo sapiens GN=SP7 PE=1 SV=1

MASSLLEEEVHYGSSPLAMLTAACTSKFGSSPLRDSTTLGKAGTKKPYSVGSCLSASKTM  
GDAYPAPFTSTNGLSPAGSPAPTSGYANDYPPFSHSFPGTGTQDPGLLVKPGHSSSD  
CLPSVYTSLDMTHPYGSWYKAGIHAGISPGPGNTPTPWDMHPGGNWLGGGQGGDGLQG  
TLPTGPAQPPLNPQLPTYPDFAPLNPAPYPAPHLQPGPQHVLQDVYKPKAVGNSGQL  
EGSGGAKPPRGASTGGSGGYGGSGAGRSSDCPCNCQELERLGAAGLRKKPIHNSCHIPG  
CGKVYKASHLKAHLRWHTGERPFVCNWLFCGKRFRSDELERHVRTHTREKKFTCLLCS  
KRFRSDHLSKHQRTHGEPGPGPPPSGPKELGEGRSTGEEASQTPRPSASPATPEKAPG  
GSPEQSNLLEI

>sp|Q8IUW3|SPA2L\_HUMAN Spermatogenesis-associated protein 2-like protein OS=Homo sapiens  
GN=SPATA2L PE=2 SV=1

MGSSSLSEDIRQCLERELRRGRAGVCGDPSLRAVLWQILVEDFDLHGALQDDALALLTDG  
LWGRADLAPALRGLARAFELLEAAVHLYLLPWKEFTTIKTFSGGYVHVLKGVLSDDL  
LKSFQKMGYVRRDSHRLMVTALPPACQLVQVALGCFALRLECEILGEVLAQLGTSVLP  
AELLQARRASGDVASCVAWLQQLAQDEEPPPLPPRGSPAAYRAPLDLYRDLQEDEGS  
EDASLYGEPSPGPDSPPAELAYRPPLWEQSAKLWGTGGRAWEPPEELPQASSPPYGA  
LEEGLPEPESAFSLSLRRELSRPGDLATPESSAAASPRRIRAEGVPASAYRSVSEPP  
GYQAHSC LSPGALPTLCCDTCRQLHAAHCAALPACRPGHSLRVLLGDAQRRLLWQRAQ  
MDTLLYNP GARP

>sp|Q9NPE6|SPAG4\_HUMAN Sperm-associated antigen 4 protein OS=Homo sapiens GN=SPAG4 PE=1  
SV=1

MRRSSRPGSASSSRKHPTNFFSENSSMSITSEDSKGLRSAEPGPGEPEGRRARGPSCGEP  
ALSAGVPGTTWAGSSQKQKAPRSHNWQTACGAATVRGGASEPTGSPVVSSEPLDLLPTL  
DLRQEMPPPRVFKSFLSLLFQGLSVLLSLAGDVLVSMYREVCSIRFLFTAVSLLSLFL  
SAFWLGLLYLVSPLENEPKEMTLSEYHERVRSQGQQLQQLQAELDKLHKEVSTVRAAN  
SERVAKLVFQRLNEDFVRKPDYALSSVGASIDLQKTSHDYADRNTAYFWNRFSFWN  
YARPPTV ILEPHVFPNCWAFEGDQGQVVIQLPGRVQLSDITLQHPPPSVEHTGGAN  
SAPRDFAVFG LQVYDETEVSLGKFTFDVEKSEIQTFHLQNDPPAAFPKVKIQILSNW  
GHPRTCLYRVRA HGVRTSEGAEGSAQGP

>sp|Q9BWV2|SPAT9\_HUMAN Spermatogenesis-associated protein 9 OS=Homo sapiens GN=SPATA9  
PE=2 SV=2

MPIKPVGWICGQVLKNFSGRIEIGIQAIMDLVDEFKDEFPTILRLSQSNQKREPAQKTSK  
IRMAIALAKINRATLIRGLNSISRSSKSVAKLLHPQLACRLLELRDISGRLLREVNAPRQ  
PLYNIQVRKGSLEIISFPAKTALTSIIYASYAALIYLAVCVNAVLLKKVKNIFQEEESIR  
QNREESENCRAKAFSEPVLPSEPMFAEGEIKAKPYRSLPEKPDISDYPKLLANKQSNNIQVL  
HSVFDQSAEMNEQI

>sp|Q96P63|SPB12\_HUMAN Serpin B12 OS=Homo sapiens GN=SERPINB12 PE=1 SV=1

MDSLVTANTKFCFDLQFEIGKDDRHKNIFFSPLSLSAALGMVRLGARSDSAHQIDEVLHF  
NEFSQNESKEPDCLKSNKQKAGSLNNESGLVSCYFGQLLSKLDRIKTDYTLSIANRLYG  
EQEFPICQEYLDGVIQFYHTTIESVDFQKNPEKSRQEINFWVECQSQGKIKELFSKDAIN  
AETVLVLVNAVYFKAKWETYFDHENTVDAPFCLNANENKSVKMMTQGLYRIGFIEEVKA  
QILEMRYTKGKLSMFVLLPSHSDNLKGLEELERKITYEKMVAWSSSENMEESVVLSP  
RFTLEDSYDLNSILQDMGITDIFDETADLTGISPSPNLYLSKIIHKTFVEVDENGTAQA  
AATGAVVSERSLSRWVEFNANHPFLFFIRHNKTQTILFYGRVCSP

>sp|Q8IY81|SPB1\_HUMAN pre-rRNA processing protein FTSJ3 OS=Homo sapiens GN=FTSJ3 PE=1  
SV=2

MGKKGKVGKSRDKFYHLAKETGYRSRSFAKLIQLNRRFQFLQKARALLDLCAAPGGWLQ  
VAAKFMPVSSLIVGVDLVPKPLPNVVTLLQQDITTERCRQALRKELKTWKVDVVLNDGAP  
NVGASVHDDAYSQAHLTLMALRLACDFLARGGSFITKVFRSRDYQPLLWIFQQLFRRVQA  
TKPQASRHESAEIFVVCQGFLAPDKVDSKFFDPKFAFKEVEVQAKTVTELVTKKKPAEG  
YAEGDLTYHRTSVTDFLRAANPVDFLSKASEIMVDDEELAQHPATTEDIRVCCQDIRVL  
GRKELRSLLNWRTKLRRYVAKKLKEQAKALDISLSSGEDEGDEEDSTAGTTKQPSKEEE  
EEEEEEQLNQTLAEMKAQEAELKRKKKKLLREQRKQREVELKMDLPGVSIADGETGM  
FSLSTIRGHQLLEEVTDGDMASADTFLSDLPRDDIYVSDVEDDGDDTSLDSDLPEELAG  
VRGHQGLRDQKRMRLTEVQDDKEEEEEENPLLVPLEEKAVLQEEQANLWFSKGSFAGIED  
DADEALEISQAQLLFENRRKGRQQQKQQLPQTTPSCLKTEIMSPLYQDEAPKGTEASSG  
TEAATGLEGEEDKGISDSDSSTSSEEEESWEPLRGKKRSRGPKSDDDGEIIVPIEDPAKH  
RILDPEGLALGAVIASSKKAKRDLIDNSFNRYTFNEDEGELPEWVQEEKQHRIRQLPVG  
KKEVEHYRKRWRINARPIKKVAEAKARKRRMLKRLEQTRKKAEEVNTVDISEREKVA  
QLRSLYKAGLGKEKRHVTVVAKKGVGRKVRPAGVRGHFKVVDSDRMKKDQRAQQRKEQ  
KKKHKRK

>sp|P50452|SPB8\_HUMAN Serpin B8 OS=Homo sapiens GN=SERPINB8 PE=1 SV=2

MDDLCEANGTFAISLFKILGEEDNSRNVFFSPMSISSALAMVFMGAKGSTAAQMSQALCL  
YKGDIIHRGFQSLSEVNRTGTQYLLRTANRLFGEKTCDFLPDFKEYCQKFYQAELEELS  
FAEDTEECRKHINDWVAEKTEGKISEVLDAGTVDPKTLVLVNAIYFKGKWNEQFDRKYT  
RGMLFKTNEEKKTQMMFKEAKFKMGYADEVHTQVLELPYVEEELSMVILLPDDNTDLAV  
VEKALTYEKFKAWTNSEKLTSSKVQVFLPRLKLEESYDLEPFLRRLGMIDAFDEAKADFS  
GMSTEKNVPLSKVAHKCFVEVNEEGTEAAAAATAVVRNSRCSRMEPRFCADHPFLFFIRHH  
KTNCILFCGRFSSP

>sp|Q9H0A9|SPC1L\_HUMAN Speriolin-like protein OS=Homo sapiens GN=SPATC1L PE=1 SV=3

MAEGGELMSRLLSENADLKKQVRLLENQMLRRLLSQSCQEGGGHLLPPRAHAYPEAGS  
PGSGVPDFGRFTSVADTPSQLQTSSLEDLLCSHAPLSSEDDTSPGCAAPSQAPFKAFLSP  
PEPHSHRGTRDKLSPLLSPLQDSLVDKTLLEPREMVRPKKVCFSSESLPTGDRTRRSYYL

NEIQSFAGAEKDARVVGEIAFQLDRRILAYVFPVTRLYGFTVANIEKIEQTSTKSLDG  
SVDERKLRELQRYLALSARLEKLGYSRDVHPAFSEFLINTYGILKQRPDLRANPLHSSP  
AALRKLVIDVPPKFLGDSLLLLNCLCELSKEDGKPLFAW

>sp|Q8NFV5|SPDE1\_HUMAN Speedy protein E1 OS=Homo sapiens GN=SPDYE1 PE=2 SV=3

MQKHYTEAVFLYSAPGVDPSPPCRSLGWKRKREWSDESEEEPEKELAPEPEETWVETLC  
GLKMKLKQQRVSPILLEHHKDFNSQLAPGVDPSPPHRSFCWKRKMEWWDKSESEEEPRK  
VLAPEPEEIWVAEMLCGLKMKLKRRRVSLVLEPHHEAFNRLLDPVIKRFLAWDKDLRVS  
DKYLLAMVIAFYFSRAGFPSWQYQRLHFFLALYLANDMEEDDEDSKQNIHFHLYGKNRSRI  
PLLKRKRFQLYRSMNPRARKNRSIPLVRKRRFQLRRCMNPRARKNRSQIVLFQKRRFHF  
FCSMSCRAWVSPEEEIEIAYDPEHWVWARDRARLS

>sp|Q9BSE5|SPEB\_HUMAN Agmatinase, mitochondrial OS=Homo sapiens GN=AGMAT PE=1 SV=2

MLRLLASGCARGPGPGVGARPAAGLFHPGRRQSRQASDAPRNQPPSPEFVARPVGCSMM  
RLPVQTSPEGLDAAFIGVPLDTGTSNRPGARFGPRRIREESVMLGTVPSTGALPFQSLM  
VADLGDVNVNLYNLQDSCRRIQEAYEKIVAAGCIPLTLGGDHTITYPILQAMAKKHGPVG  
LLHVDADTDTTDKALGEKLYHGAPFRRCVDEGLLDCKRVVQIGIRGSSTLDPYRYNRSQ  
GFRVLAEDCWMKSLVPLMGEVRQMQGGKPIYISFDIDALDPAYAPGTGTPEIAGLTPSQ  
ALEIIRGCQGLNVMGCDLVEVSPPYDLSGNTALLAANLLFEMLCALPKVTTV

>sp|Q96L03|SPT17\_HUMAN Spermatogenesis-associated protein 17 OS=Homo sapiens GN=SPATA17  
PE=2 SV=1

MATLARLQARSSTVGNQYYFRNSVVDPFRRKKENDAAVKIQSWFRGCQVRAYIRHLNRIVT  
IIQKWWRSFLGRKQYQLTVQVAYYTMMNLYNAMAVRIQRRWRGYVRKYLFNYYYLKEY  
LKVVSETNDAIRKALEEFAEMKEREKKANLEREEKRDYQARKMHYLLSTKQIPGIYNS  
PFRKEPDWELQLQKAKPLTHRRPKVKQKDSLSLTDWLACTSARSFPRSEILPPINRKQC  
QGPFRDITEVLEQRYRPLEPTLRVAEPIDELKLAREELRREEWLQNVNDNMFLPFSSYHK  
NEKYIPSMHLSSKYGPISYKEQFRSENPKKWICDKDFQTVLPSFELFSKYGKLYSKAGQI  
V

>sp|Q8NHS9|SPT22\_HUMAN Spermatogenesis-associated protein 22 OS=Homo sapiens GN=SPATA22  
PE=1 SV=2

MKRSLNENSARSTAGCLPVPLFNQKKRNRQPLTSNPLKDDSGISTPSDNYDFPPLPTDWA  
WEAVNPELAPVMKTVDTGQIPHVSRLRSQDSVFNSIQSNTGRSQGGWSYRDGNKNTSL  
KTWNKNDFKPQCKRTNLVANDGKNSCPVSSGAQQKQLRIPEPPNLSRNKETELLRQTHS  
SKISGCTMRGLDKNSALQTLKPNFQQNQYKKQMLDDIPEDNTLKETSLYQLQFKEKASSL  
RIISAVIESMKYWREHAQKTVLLFEVLAVLDSAVTPGPYYSKTFLMRDGKNTLPCVFYEI  
DRELPLRIRGRVHRCVGNVDQKKNIFQCVSVRPASVSEQTFQAFVKIADVEMQYYINVM  
NET

>sp|Q537H7|SPT45\_HUMAN Spermatogenesis-associated protein 45 OS=Homo sapiens GN=SPATA45  
PE=3 SV=1

MASINRTIEIMKKHGVSKQHLLLEEINKKRESNCLVERSNQVSLLRVQKRHFPDAYQSFTD  
TTTKEPVPNSGRSSWIKLSLLAHMERKHFPKNNAI FG

>sp|Q8NCC5|SPX3\_HUMAN Sugar phosphate exchanger 3 OS=Homo sapiens GN=SLC37A3 PE=2 SV=2

MAWPNVFQRGSLLSQFSHHHVVFLLTFFSYSLHASRKTFSNVKVSISEQWTPSAFNTS  
VELPVEIWSSNHLFPSAEKATLFLGLTDITFLFSYAVGLFISGIVGDRLNLRWVLSFGMC  
SSALVVFVFGALTEWLRFYKNWLYCCLWIVNGLLQSTGWPCVVAVMGNWFGKAGRGVVFG  
LWSACASVGNILGACCLASSVLQYGYEYAFVLTASVQFAGGIVIFFGLLVSPEEIGLSGIE

AEENFEEDSHRPLINGGENEDEYEPNYSIQDDSSVAQVKAISFYQACCLPGVIPYSLAYA  
CLKLVNYSFFFWLPFYLSNNFGWKEAEADKLSIWYDVGGIIGGTLQGFISDVLQKRAPVL  
ALSLLLAVGSLIGYSRSPNDKSINALLMTVTGFFIGGPSNMISSAISADLGRQELIQRSS  
EALATVTGIVDGSIGAAVGQYLVSLIRDKLGWMWVFYFFILMTSCTIVFISPLIVREI  
FSLVLRRAHILRE

>sp|Q5MJ09|SPXN3\_HUMAN Sperm protein associated with the nucleus on the X chromosome N3  
OS=Homo sapiens GN=SPANX3 PE=2 SV=1

MEQPTSSTNGEKTSPCESNNKKNDQMVEPNRVLAPEQSLKTKTSEYPIIFVYYLRKG  
KKINSNQLENEQSQENSINPIQKEEDEGVLDSEGSSNEDEDLGPCEGPSKEDKDLDSEGE  
SSQEEDEDLGLESGSSQDSGED

>sp|043597|SPY2\_HUMAN Protein sprouty homolog 2 OS=Homo sapiens GN=SPRY2 PE=1 SV=1

MEARAQSGNGSQPLLQTPRDGGRQGEPRDALTQQVHVLSDQIRAIRNTNEYTEGPT  
VVPRPGLKPAPRPSTQHKHERLHGLPEHRQPPRLQHSQVHSSARAPLSRSISTVSSGSRS  
STRTSTSSSSSEQRLLGSSFSFGPVADGIIIRVQPKSELKPGELKPLSKEDLGLHAYRCED  
CGKCKCKECTYPRPLPSDWICDKQCLCSAQNVIDYGTCCVCKGLFYHCSNDDNDCADN  
PCSCSQSHCCTRWSAMGMSLFLPCLWCYLPAGCKLKCQGCYDRVNRPGCRCKNSNTVC  
CKVPTVPPRNFEKPT

>sp|Q6ZRS2|SRCAP\_HUMAN Helicase SRCAP OS=Homo sapiens GN=SRCAP PE=1 SV=3

MQSSSPAHPQLPVLQTMVSDGMTGSPVSPASSSPASSGAGGISPQHIAQDSSLDGP  
PGPPDGATVPLEGFSLSQAADLANKGPKWEKSHAEIAEQAKHEAEIETRIAELRKEGFWS  
LKRLPKVPEPPRPKGHWYDLCEEMQWLSADFAQERRWKRGVARKVVRMVI RHHEEQRQKE  
ERARREEQAKLRRIASTMAKDVRQFWSNVEKVVFQKQSRLEEKRRKALDLHLDFIVGQT  
EKYSDLLSQSLNQPLTSSKAGSSPCLGSSSAASSPPPPASRLDDEGDFQPQEDEEEDDE  
ETIEVEEQQEGNDAAEQRREIELLRREGELPLEELLRSLPPQLLEGPSPPSQTSSHDSD  
TRDGPEEGAEEEPQVLEIKPPPSAVTQRNKQPWHPDEDEDEEFTANEEEEAEDEEDTIAAE  
EQLEGEVDHAMELSELAREGELSMEELLQQYAGAYAPGSGSSEDEDEDEVDANSSDCEPE  
GPVEAEPPQEDSSSQSDSVEDRSEDEDEHSEEEETSGSSASEESESESESEDAQSQSQ  
DEEEEDDDFGVEYLLARDEEQSEADAGSGPPTPGPTTLGPKKEITDIAAAAESLQPKGYT  
LATTQVKTP IPLLLRGQLREYQHIGLDWLV TMYEKKLNGILADEMGLGKTIQTISLLAHL  
ACEKGNWGPHLIIIVPTSVMLNWEMELKRWCP SFKILTYGAQKERKLRQGWTKPNAFHV  
CITSYKLVLDHQAFFRRKNWRYLILDEAQNIKNFKSQRWQSLNFN SQRRLLLTGTPLQN  
SLMELWSLMHFLMPHFVQSHREFKEWFSNPLTGMIEGSQEYNEGLVKRLHKVLRPFLLRR  
VKVDVEKQMPKKYEHVIRCRLSKRQRCLYDDFMAQTTTKETLATGHFMSVINILMQLRKV  
CNHPNLFDRPVTSPFITPGICFSTASLVL RATDVHPLQRIDMGRFDLIGLEGRVSRYEA  
DTFLPRHRLSRRVLLEVATAPDPPRPKPKVMKVNRLQPVPKQEGRTVVVVNNPRAPLG  
PVPVRPPPGPELSAQPTPGVPVQVLPASLMVSASPAGPPLIPASRPPGPVLLPPLQPN SG  
SLPQVLPSPGLVSGTSRPPTTSLKPTPPAPVRLSPAPPPGSSSLKPLTVPPGYTFP  
PAAATTTSTTTATATTTAVPAPTAPQRLILSPDMQARLPSGEVVSIGQLASLAQRPVAN  
AGGSKPLTFQIQGNKLTLTGAQVRQLAVGQPRPLQRNVVHLVSAGGQHHLISQPAHVALI  
QAVAPTPGPTPVSVLPSSTPSTTAPTGLSLPLAANQVPPTMVNNTGVVKIVVRQAPRDG  
LTPVPPLAPAPRPSSGLPAVLNRPRTLTPGRLPTPTLGTARAPMPTPTLVRPLLKL VHS  
PSPEVSASAPGAPLTISSPLHVPSSLPGPASSPMPIPNSSPLASPVSVPLSSSLP  
ISVPTTL PAPASAPLTIPISAPLTVSASGPALLTSVTPPLAPVVAAPGPPSLAPSGASP  
SASALTGLATAPSLSSSQTPGHPLLLAPTSSHVPGLNSTVAPACSPVLVPASALASFPF

SAPNPAPAQASLLAPASSASQALATPLAPMAAPQTAILAPSPAPPLAPLPVLAPSPGAAP  
VLASSQTPVPVMAPSSTPGTSLASASPVPAPTPVLAPSSTQTMLPAPVPSPLPSPASTQT  
LALAPALAPTLGGSSPSQTLSLGTGNPQGPFTQTLSLTPASSLVPTPAQTLAPGPPL  
GPTQTLAPAPPLAPSPVGPAPAHTLTLAPASSASLLAPASVQTLTLSPAPVPTLGP  
AAAQTLALAPASTQSPASQASSLVVSASGAAPLPVTMVSRPVSKEPDTLTLRSGPPSP  
PSTATSFGGPRRRQPPPPRSPFYLDSELEKRRQRSELERIFQLSEAHGALAPVYGT  
EVLDFCTLPQPVASPIGRSPGPSHTFWTYTEAAHRAVLFPQQRLDQLSEIERFIFVM  
PPVEAPPSLHACHPPPWLAQRQAQEQQLASELWPRARPLHRIVCNMRTQFPDLRLIQY  
DCGKLQTLAVLLRQLKAEHRVLIQTMTRMLDVLEQFLTYHGHLRLDYGSTRVEQRQA  
LMERFNADKRIFCFILSTRSGGVGNLTGADTVVFYSDWNPTMDAQADRCHRIQTRD  
VHIYRLISERTVEENILKKNQKRMGLDMAIEGGNFTTAYFKQQTIRELFDMPLEEPS  
SVPSAPEEEEEETVASKQTHILEQALCRAEDEEDIRAATQAKAEQVAELAEFNENDGFPAG  
EGEEAGRPGAEEDEMSRAEQEIAALVEQLTPIERYAMKFLEASLEEVSRLEEKQAEQVE  
AARKDLQAKEEVFRLPQEEEEGPGAGDESSCGTGGGTHRRSKKAKAPERPGTRVSRRLR  
GARAETQGANHTPVISAHQTRSTTTPRCSPARERVPRPAPRPTPASAPAAIPALVPV  
PVSAPVPIAPNPITILPVHILSPPPPSQIPPCSSPACTPPPAHTPPPAQTCL  
VTPSSPLLLGPPSVPIASVTNPLPLGRPEAELCAQALASPELLELASVASSSETSSLSLV  
PPKDLLPVAVEILPVSEKNLSLTPSAPSLTLEAGSIPNGQEQAEPDSEAGTTLTVLPEGE  
ELPLCVSESNGLLEPPSAASDEPLQEPLADRTSEELTEAKTPTSSPEKPQELVTAEVAA  
PSTSSSATSSPEGPSPARPPRRRTSADVEIRGQGTGRPGQPPGPKVLRKLPGRVTVVEE  
KELVRRRRRQQRGAASLTPGVSETSPGSPSVRMSGPESSPPIGGPCEAAPSSSLPTP  
PQQPFIARRHIELGVTGGGSPENGDGALLAITPPAVKRRRGRPPKKNRSPADAGRGVDEA  
PSSTLKGTNGADPVPGPETLIVADPVLEPQLIPGPQPLGPQVHRPNLLSPVEKRRRG  
RPPKARDLPIPGTISSAGDGNSESRTPPPHPSPLTLPPLVCPTATVANTVTTVTIST  
SPPKRRGRPPKNPPSPRPSQLPVLDRDSTSVLESCGLGRRRQPPQQGESEGSSEDEG  
RPLTRLARLRLEAEGMRGRKSGGSMVVAVIQDDLADSGPGLLELTPPVVSLTPKLRST  
RLRPGSLVPLETEKLPRKRAGAPVGGSPGLAKRGRLQPPSPLGPEGSVEESEAEASGEE  
EEGDGTPRRRPGPRRLVGTNQGDRILRSSAPPSLAGPAVSHRGRKAKT

>sp|Q9H3Y6|SRMS\_HUMAN Tyrosine-protein kinase Srms OS=Homo sapiens GN=SRMS PE=1 SV=1

MEPFLRRRLAFLSFFWDKIWPAGGEPDHGTPGSLDPNTDPVPTLPAEPCSPFPQLFLALY  
DFTARCGGELSVRRGDRLCALEEGGYIFARRLSGQPSAGLVPITHVAKASPETLSDQPW  
YFSGVSRTQAQQLLSPPNEPGAFLIRPSESSLGGYLSVRAQAKVCHYRVSMADGS  
LYLQKGRLFPGLEELLTYKANWKLIQNPLQPCMPQKAPRQDVWERPHSEFALGRKLGE  
GYFGEVWGLWGLSLPVAIKVKSANMKLTDLAKEIQTLKGLRHERLIRLHACVSGGEPV  
YIVTELMRKGNLQAFLGTPEGRALRLPPLLGFAQVAEGMSYLEEQRVVHRDLAARNVL  
VDDGLACKVADFGLARLLKDDIYSPSSSSKIPVKWTAPEAANYRVFSQKSDVWSFGVLL  
HEVF TYGQCPIYEGMTNHETLQQIMRGYRLPRPAACPAEVYVLMLECWSSPEERPSFATLREKL  
HAIHRCHP

>sp|P49458|SRP09\_HUMAN Signal recognition particle 9 kDa protein OS=Homo sapiens GN=SRP9  
PE=1 SV=2

MPQYQTWEEFSRAAEKLYLADPMKARVVLKYRHSNGNLCVKVTDDLVLVYKTDQAQDVK  
KIEKFHSQMLRMLVAKEARNVTMETE

>sp|P61011|SRP54\_HUMAN Signal recognition particle 54 kDa protein OS=Homo sapiens GN=SRP54  
PE=1 SV=1

MVLADLGRKITSALRSLSNATIIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAI  
DLEEMASGLNKRKMIQHAVFKELVKLVDPGVKAWTPTKGKQNVIMFVGLQGSGKTTTCSK  
LAYYYQRKGWKTCLICADTFRAGAFDQLKQNAIKARIPFYGSYTEM DPVIIASEGVEKFK  
NENFEIIIVDTSGRHKQEDSLFEMLQVANAIQPDNIVYVMDASIGQACEAQAKAFKDKV  
DVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEPFKTQPFISKLLMGDI  
EGLIDKVNELKLDDNEALIEKLKHGQFTLRDMYEQFNIMKMGPFSQLGMIPGFGTDFM  
SKGNEQESMARLKKLMTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQEL  
LTQYTKFAQMVKKMGGIKGLFKGGDMSKNVSQSQMAKLNQQMAKMMDPRLHMHGGMAGL  
QSMRQFQQGAAGNMKGMMGFNNM

>sp|Q9UPE1|SRPK3\_HUMAN SRSF protein kinase 3 OS=Homo sapiens GN=SRPK3 PE=1 SV=2

MSASTGGGDSGGSGSSSSSQASCGPESSGSELALATPVPQMLQGLLGSDDEEQEDPKD  
YCKGGYHPVKIGDVFNTRYHVVRKLGWGHFSTVWLCWDIQRKRVALKVVKSAGHYTETA  
VDEIKLLKCVRSDSPDPKRETIQVLIIDFRISGVNGVHVCMLVLEVLGHQLLKWIIKSNY  
QGLPVPVCVKSIVRQVLHGLDYLHTKCKIIHTDIKPENILLCVGDYIRRLAAEATEWQQA  
GAPPPSRIVSTAPQEVLTGKLSKNRKKMRRKRKQKRLLEERLRLDLQRLEAMEAATQ  
AEDSGRLRDGGSGSTSSSGCHPGGARAGPSPASSSPAPGGGRSLSAGSQTSGFSGSLFSP  
ASCSILSGSSNQRETGGLSPSTPFGASNLLVNPQADKIKIKIADLGNACWVHKHF  
TEDIQTRQYRAVEVLIGAEYGPADIWSTACMAFELATGDYLFEPHSGEDYSRDEDHIAH  
IVELLGDIPPAFALSGRYSREFNRRGELRHHNLKHGGLYEVLMEKYEWPLEQATQFSA  
FLLPMMEYIPEKRASAADCLQHPWLN

>sp|Q8WXF0|SRS12\_HUMAN Serine/arginine-rich splicing factor 12 OS=Homo sapiens GN=SRSF12  
PE=2 SV=1

MSRYTRPPNTSLFIRNVADATRPEDLRREFGRYGPIVDVYIPLDFYTRRPRGFAYVQFED  
VRDAEDALYNLRKWVCGRQIEIQFAQGDRKTPGQMSKERHPCSPSDHRRSRSPSQRR  
RSRSSWGRNRRSDSLKESRHRFSYSQSKSRKSLPRRSTSARQSRTPRRNFGSRGRS  
RSKSLQKRSKSIGKSQSSSPQKQTSSGTSRSHGRHSDSIARSPCKSPKGYTNSETKVQT  
AKHSHFRSHSRSRSYRHKNW

>sp|Q07955|SRSF1\_HUMAN Serine/arginine-rich splicing factor 1 OS=Homo sapiens GN=SRSF1  
PE=1 SV=2

MSGGGVIRGPAGNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVE  
FEDPRDAEDAVYGRDGYDYDGYRLRVEFPRSGRGTGRGGGGGGGAPRGYGPSPRRSE  
NRVVVSGLPSPGSWQDLKDHMREAGDVCYADVYRDGTGVVEFVRKEDMTYAVRKLNTKF  
RSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSRSRSPRRSRGSPRYSPR  
HSRSRST

>sp|P84103|SRSF3\_HUMAN Serine/arginine-rich splicing factor 3 OS=Homo sapiens GN=SRSF3  
PE=1 SV=1

MHRDSCPLDCKVYVGNLGNNGNKTLELAFGYGPLRSVWVARNPPGFAFVEFEDPRDAA  
DAVRELDGRTLGCGRVVELSNGEKSRNRGPPPSWGRPRDDYRRSPPPRRRSPRRRS  
FSRSRSLSRDRRRERSLSRERNHKPSRFSRSRSRSRNERK

>sp|Q9NUC0|SRTD4\_HUMAN SERTA domain-containing protein 4 OS=Homo sapiens GN=SERTAD4 PE=2  
SV=1

MTLVLSMNRFCPIVSEGAAEIIAGYQTLWEADSYGGSPPPGPAQAPLQDGRGAGPPLAGS  
HYRGISNPITTSKITYFKRKYVEEDFHPPLSSCSHKTISIFEERAHILYMSLEKLKFI  
DPEVYLRRSVLINNLMKRIHGEIIMQNNWCFPACSFNGTSAQEWMAQDCPYRKRPRMAK

EECEKFHACCFYQECGGHYLNPLSVNANVGSASTAASSPSASSSSSSSSSPPLPLPSC  
SRQVDFDVGSASIYKSDGQIPANEIFVTNVRSLGVQEAKLNDEKANDDTNRDGGPLSHE  
PVGNDLAFECKGQFYDYFETGYNERNNVNESWKKSLRKKEASPPSNKLCCSKGSKI

>sp|Q8WWF3|SMM1\_HUMAN Serine-rich single-pass membrane protein 1 OS=Homo sapiens  
GN=SSMEM1 PE=2 SV=1

MGDLFSLFWEVDPPPPIPVNCAIPNQDYECWKDDSCGTIGSFLLWYFVIVFVLMFFSRASV  
WMSEDKKDESGTSTSVRKASKETSCKRQSKDSAWDPSQTMKKPKQNQLTPVTNSEVALV  
NAYPEQRRARRQSQFNEVNQNHDSDTTEYGSEESNSEASSWKESESEHHPSPDSIKRRK  
MAQRQRNLGSYQMSERHCLHCKALRTNEWLAHHSRQKPSVTPPMKRDSQEESSISDINKK  
FSKF

>sp|A2VEC9|SSPO\_HUMAN SC0-spondin OS=Homo sapiens GN=SSPO PE=2 SV=1

MLLPALLFGMAWALADGRWCEWTETIRVEEEVAPRQEDLVPCASLDHYSRLGWRLDLPWS  
GRSGLTRSPAPGLCPIYKPPETPAKWNRTVRTCCPGWGGAHCTEALAKASPEGHCFAMW  
QCQLQAGSANASAGSLEECCARPWGQSWWDGSSQACRSCSSRHLPGSASSPALLQPLAGA  
VGQLWSQHQRPSATCASWSGFHYRTFDGRHYHFLGRCTYLLAGAADSTWAVHLTPGDRCF  
QPGHCQRVTMGPEEVLIIQAGNVSVKGQLVPEGQSWLLHGLSLQWLGDWLVLSGGLGVVVR  
LDRTGSISISVDHELWGQTQGLCYNGWPEDDFMEPGGGLAMLAATFGNSWRLPGSESG  
CLDAVEVAQGCDPLGLIDADVEPGHLRAEAQDVCHQLLEGPFQCHAQVSPA EYHEACLF  
AYCAGAMAGSGQEGRQQA VCATFASYVQACARRHIHIRWRKPGFCERLCPGGQLYSDCVS  
LCPPSCEAVGQGEESCREECVSGCECPRG LFWNGTLCVPAAHCPCYCRQRYVPGD TVR  
QLCNPVCVRDGRWHCAQALCPAEC AVGGDGHYLTDFGRSYSFWGGQGC RYSLVQDYVKGQ  
LLILLEHGACDAGSCLHAISVSLEDTHIQLRDSGAVLVNGQDVGLPWIGA EGLSVRRASS  
AFLLLRWPGAQVLWGLSDPVAYITLDPRAHQVQGLCGTFTQNNQDDFLTPAGDVETSIA  
AFASKFQVAGKGRCPSEDSALLSPCTTHSQRHAFAEAACA ILHSSVFQECHRLVDKEPFY  
LRCLAAVCGCDPGSDCLCPVLSAYARRCAQEGASPPWRNQTLCPVMPGGQ EYRECAPAC  
GQHCGKPEDCGELGSCVAGCNCPLG LLWDPEGQCVPPSLCPCQLGARRYAPGSATMKECN  
RCICQERGLWNCTARHCPSQAFCPREL VYAPGACLLTCDSPSANHSCPAGSTDGCVCPPG  
TVLLDERCVPPDLPCRHSQWYLPNATI QEDCNVCVCRGRQWHCTGQRRSGRCQASGAP  
HYVTFDGLAFTYPGACEYLLVREASGLFTVSAQNLPCGASGLTCTKALAVRLEGT VVHML  
RGRAVTVNGVSVTPPKVYTG PGLSLRRAGLFLLSTHLGLTLLWDGGTRVLVQLSPQFRG  
RVAGLCGDFDGDASNDLRSRQGVLEPTAELAAHSWRLSPLCPEPGDLPH PCTMNTHRAGW  
ARARCGALLQPLFTLCHAEVPPQQHYEWCLYDACGDSGGDCECLCSA IATYADECARHG  
HHVRWRSQELCSLQCEGGQVYEACGPTCPPTCHEQHPEPGWHCQV VACVEGCFCPEGTLL  
HGGACLEPASCPCWGRNSFP PGSVLQKDCGNCTCQEGQWHCGDGGHCEELVPACAEGE  
ALCQENGHCVPHGWLCDNQDDCGDSDEEGCAAPGCGEGQMTCS SGHCLPLALLCDRQDD  
CGDGTDEPSYPCPQGLLACADGRCLPPALLCDGHPDCLDAADEESCLGQVTCVPGEVSCV  
DGTCLGAIQLCDGVWDPCPDGADEGP GHCPLPSLPTPPASTLPGSPGSLDTASSPLASAS  
PAPPCGPFEFRGSGECTPRGWRC DQEEDCADGSDERGCGGPCAPHHAPCARGPHCVSPE  
QLCDGVRQCPDGSDEGPDACGGLPALGGPNRTGLPCPEYTCPNGTCIGFQLVCDGQ PDCG  
RPGQVGPSPEEQCGGAWGPWSPWGPCSRTCGPWGQGRSRRCSPLG LLVLQNCPGPEHQSQ  
ACFTAACPVDGEWSTWSPWSVCSEPCRGTMTRQRQCHSPQNGGRTCAALPGGLHSTRQTK  
PCPQDGC PNATCSGELMFQPCAPCPLTCDDISGQVTCPPDWPCGSPGCWCPEGQVLGSEG  
WCVWPRQCPCPLVDGARYWPGRIKADCQLCICQDGRPRRCRLNPDCAVDCGWSSWSPWAK  
CLGPCGSQSIQWSFRSSNNPRPSGRGRQCRGIHRKARRCQTEPCEGCEHQGVHRVGERW



HGGPCRVCQCLHNLTAHCSPLYCPLGSCPQGWVLVEGTGESCHCALPGENQTVQPMATPA  
AAPAPSPQIRFPLATYILPPSGDFCYSPLGLAGLAEGSLHASSQQLEHPTQAALLGAPTQ  
GPSPQGWHAGGDYAKWHTRPHYLQLDLLQPRNLTGILVPETGSSNAYASSFSLQFSSNG  
LHWHDYRDLLPGILPLPKLFPRNWDDLPAVWTFGRMVQARFVRVWPHDVHSDVPLQVE  
LLGCEPGSPAPLCPGVGLRCASGECVLRGGPCDGVLDCEGSDDEGCVLLPEGTGRFHS  
TAKTLALSSAQPGQLLHWPREGLAETEHWPQGESPTSPTETRPVSPGPASGVPHHGESV  
QMVTTPPIQMEARTLPPGMAAVTVVPPHPVTPATPAGQSVAPGPFPPVQCGPGQTPCEV  
LGCVEQAQVCDGREDCLDGSDERHCARNLLMWLPSLPALWAASTVPFMMPTMALPGLPAS  
RALCSPSQLSCSGECLSAERRCDLRPDCQDGSDEDCVCLAPWSVSSCSRSCGLGL  
TFQRQELLRPPLPGGSCPRDRFRSQSCFVQACPVAGAWAMWEAWGPCSVSCGGGHQSRQR  
SCVDPPPKNNGAPCPGASQERAPCGLQPCSGGTDCELGRVYVSADLCQKGLVPPCPPSCL  
DPKANRSCSGHCVGECRCPPGLLLHDTRCLPLSECPCLVGEELKWPGVSFLLGNCSQCVC  
EKGELLCPGGCPLPCGWSAWSSWAPCDRSCSGSVRARFRSPSNPPAAWGGAPCEGDRQE  
LQGCHTVCGTEVFGWTPWTSWSSCSQSCLAPGGGPGWRSRSLCPSPGDSSCPGDATQEE  
PCSPVPVPSIWGLWAPWSTCSAPCDGGIQRGRSCSSLAPGDTTCPGPHSQTRDCNTQ  
PCTAQCPENMLFRSAEQCHQEGGPCRRLCTQGPGIECTGFCAPGCTCPPGLFLHNASCL  
PRSQCPCLHGQLYASGAMARLDCNNCTCVSGKMACTSERCPVACGWSPWTLWSLSCS  
CNVGIRRRFRAGTAPPAAFGGAECQGPTMEAIEFCSLRPCPGGGEWGPWSPCSVPCGGGY  
RNRTRGSSRSLMEFSTCGLQPCAGVPVGMCPDKQWLDCAQGPASCAELSAPRGTNQTCH  
PGCHCPSGMLLLNNVCVPTQDCPCAHEGHLYPGSTVVRPCENCSCVSGLIANCSSWPCA  
EGEPTWSPWTPWSQCSASCGPARCHRHRFCARSPSAVPSTVAPLPLPATPTPLCSGPEAE  
EEPCLLQGCDRAGWGPWGPWSHCSRSCGGGLRSRTRACDQPPPQGLGDYCEGPRAQGEV  
CQALPCPVTNCTAIEGAEYSPCGPPCPRSCDDLHVCVWRCQPGCYCPPGQVLSNGAICV  
QPGHCSCLDLLTGQRHHPGARLPDGCNHCTCLEGRNLCTDLPCVPVGGWCPWSEWTMC  
SQPCRGGQTRSRSRACACPTPQHGGAECTGEAGEAGAHQREACPSYATCPVDGAWGPWGP  
WSPCDMCLGQSHRSRACSRPPTPEGGRPCPGNHTQSRPCQENSTQCTDCGGGQSLHPCGQ  
PCPRSCQDLSPGSVCQPGSVGCQPTCGCPLGQLSQDGLCVPPAHCRCQYQPGAMGIPENQ  
SRSAGSRFSSWESLEPGEVVTGPCDNCTCVAGILQCQEVDPDGPVSSWGPWEDCSVS  
CGGGEQLRSRRCARPPCPGPARQSRTCSTQVCREAGCPAGRLYRECQPGEGCPFSCAHVT  
QQVGCFSEGCCEEGCHCEGTFQHRLACVQECPCVLTAWLLQELGATIGDPGQPLPGDEL  
DSGQTLRTSCGNCSAHGKLSCLDDCFEADGGFGPWSWPGPCSRSCGGLGTRTRSQC  
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DLQEGIVCQDDQVCQKGCRCPKGSLEQDGGCVPIGHCDCTDAQGHSWAPGSQHQDACNNC  
SCQAGQLSCTAQCPPPPTHCAWSHWSAWSPCSHSCGPRGQQSRFRSSTSGSWAPECREEQ  
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WGPWSPCQVPCSGGFRLRWREAEALCGGGCREPWAQESCNGGPCPECEAQDTVFTLDCAN  
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AVQLDCQNCTCVNESLVCPHQECPVLPGPSAWSSCSAPCGGTMERHRTCEGGPGVAPCQ  
AQDTEQRQECNLQPCPECPPGQVLSACATSCPCLCWLHPGAIQVQEPQPGCGCPGGQL  
LHNGTCVPPTACPCTQHSLPWGLTLTLEEQAQELPPGTVLTRNCTRCVCHGGAFCSSLVD  
CQVPPGETWQQVAPGELGLCEQTCEMNATKTQSNCSARASGCVCQPGHFRSQAGPCVP  
EDHCECWLHGRPHLPGEWQEACESCLCLSGRPVCTQHCSPLTCAQGEEMVLEPGSCCPS  
CRREAPEEQSPSCQLLTELRFNFKGTQCYLDQVEVSYCSGYCPSSTHVMPEEPYLQSQCDC  
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>sp|Q16384|SSX1\_HUMAN Protein SSX1 OS=Homo sapiens GN=SSX1 PE=1 SV=2

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>sp|O60225|SSX5\_HUMAN Protein SSX5 OS=Homo sapiens GN=SSX5 PE=1 SV=3

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>sp|Q7RTT3|SSX9\_HUMAN Protein SSX9 OS=Homo sapiens GN=SSX9 PE=2 SV=1

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NDSKEVPEASGLQNDGKQLCPPGKPTTSEKINKASGPKRGKHAWTHRLRERKQLVIYEEI  
SDPEEDDE

>sp|P78524|ST5\_HUMAN Suppression of tumorigenicity 5 protein OS=Homo sapiens GN=ST5 PE=1  
SV=3

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>sp|P51692|STA5B\_HUMAN Signal transducer and activator of transcription 5B OS=Homo sapiens  
GN=STAT5B PE=1 SV=2

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CQQLPPIPGPVEEMLAEVNATITDIIISALVTSTFIIKQPPQVLKTQTKFAATVRLLVGGKL  
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>sp|P51531|SMCA2\_HUMAN Probable global transcription activator SNF2L2 OS=Homo sapiens  
GN=SMARCA2 PE=1 SV=2

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LLDPNSEEVSEKDAKQIIETAKQDVDDEYSMQYSARGSQSYTTVAHAISERVEKQSALLI  
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KVEYVIKCDMSALQKILYRHMQAQGILLTDGSEKDKKGKGAKTLMNTIMQLRKICNHPY  
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TEKQWLRAIEDGNLEEMEEVRLKKRKRNRNVDKPAKEDVEKAKRRRGRPPAEKLSNP  
PKLTKQMNAIIDTVINYKDRCNVEKVPNSQLEIEGNSSGRQLSEVFIQLPSRKELPEYY  
ELIRKPVDFKKIKERIRNHKYRSLGDLEKDVMLLCHNAQTFFNLEGSQIYEDSIVLQSVFK

SARQKIAKEEESEDESNEEEEEDEEESESEAKSVKVKIKLNKKDDKGRDKGKGKKRPNR  
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>sp|O60264|SMCA5\_HUMAN SWI/SNF-related matrix-associated actin-dependent regulator of  
chromatin subfamily A member 5 OS=Homo sapiens GN=SMARCA5 PE=1 SV=1

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KPGRPRIKKDEKQNLSSVG DYRHRRTQEEDDELLTESSKATNVCTRFE DSPSYVKGKL  
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LHNWMESEFKRWVPTLRVCLIGDKEQRAAFVRDVLPGEWDCVTSYEMLIKEKSVFKKF  
NWRYLVIDEAHRIKNEKSKLSEIVREFKTTNRLLLGTPLQNNLHELWSLLNFLLPDVFN  
SADDFDSWFDTNCLGDQKLVERLHMVLRPFLLRRIKADVEKSLPPKKEVKIYVGLSKMQ  
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NSGKMVVDKLLPKLKEQGSRLIFSQMTRVLDILEDYCMWRNYEYCRLDGQTPHDERQD  
SINAYNEPNSTKVFVMLSTRAGGLGINLATADVILYSDWNPQVDLQAMDRAHRIGGTK  
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VFASKESEITDEDIDGILERGAKKTAEMNEKLSKMGESSLRNFTMDTESSVYNFEGEDYR  
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LFELLEKEILFYRKTI GYKVP RNPELPNAAQAQKEEQLKIDEAESLNDEELEEKEKLLTQ  
GFTNWNKRDFNQFIKANEKWRDDIENIAREVEGKTPEEVEISAVFWERCNELQDIEKI  
MAQIERGEARIQRRISIKKALDTKIGRYKAPFHQLRISYGTNGKKNYTEEEDRFLICMLH  
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>sp|Q147U7|SMC01\_HUMAN Single-pass membrane and coiled-coil domain-containing protein 1  
OS=Homo sapiens GN=SMC01 PE=2 SV=2

MNNETTTLISLKEAMKRVDHKLQALETQFKELDFTKDNL MQKFEHHSKALASQAAQDEM W  
TAVRALQLTSMELNILYSYVIEVLICLHTRVLEKLPDLVRGLPTLASVLRKVKNKRVRV  
VWESILEECGLQEGDITALCTFFIARGNKAEHYTA KVRQMYIRDVTFLITNMVKNQALQD  
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>sp|Q8WVIO|SMIM4\_HUMAN Small integral membrane protein 4 OS=Homo sapiens GN=SMIM4 PE=1  
SV=2

MFTRAQVRRLQRPVGKQRFGIYRFLPFFFVLGGTMEWIMIKVRVGQETFYDVYRRKASE  
RQYQRRLEDE

>sp|PODI80|SMIM6\_HUMAN Small integral membrane protein 6 OS=Homo sapiens GN=SMIM6 PE=4  
SV=1

MDQLVFKETIWDAFWQNPWDQGGLA V IILFITAVLLLILFAIVFGLLTSTENTQCEAGE  
EE

>sp|A6NGZ8|SMIM9\_HUMAN Small integral membrane protein 9 OS=Homo sapiens GN=SMIM9 PE=3  
SV=1

MEPQKLLIIGFLLCSLTCLLLETVASSPLPLSALGIQEKTGSKPRSGGNHRSWLNFRDY  
LWQLIKSALPPAAIVAFL LTSALMGILCCFTILVVDPVH

>sp|Q9H3U7|SMOC2\_HUMAN SPARC-related modular calcium-binding protein 2 OS=Homo sapiens  
GN=SMOC2 PE=2 SV=2

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LSRCEFQRAKCKDPQLEIAYRGNC KDVSRCVAERKYTQE QARKEFQQVFIPECNDDGTYS

QVQCHSYTGWCVTPNGRPISGTAVAHKTPRCPGSVNEKLPQREGTGKTDDAAAPALET  
QPQGDEEDIASRYPTLWTEQVKSQRNKTNKNVSSCDQEHQSALEEAKQPKNDNVVIEPC  
AHGGLYKPVQCHPSTGYCWCVLVDTRPIPSTSTRYEQPKCDNTARAHPAKARDLYKGRQ  
LQGCPCGAKKHEFLTSVLDALSTDMVHAASDPSSSSGRLSEPDPSHTLEERVVHWYFKLLD  
KNSSGDIGKKEIKPFKRFLRKSKPKKCVKKFVEYCDVNNDKSISVQELMGCLGVAKEDG  
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>sp|Q99954|SMR3A\_HUMAN Submaxillary gland androgen-regulated protein 3A OS=Homo sapiens  
GN=SMR3A PE=3 SV=2

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GRFPPLSPPYGPGRIPPSPPPYGPRIQSHSLPPPYGPGYPQPPSQPRPYPPGPPFFP  
VNSPTDPALPTAP

>sp|Q3KNW1|SNAI3\_HUMAN Zinc finger protein SNAI3 OS=Homo sapiens GN=SNAI3 PE=2 SV=1

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RSSAVACISLPLPRIEEALGASGLDALEVSEVDPRASRAAIVPLKDSLNLNLPLLVL  
PTRWSTLGPDRHGAPEKLLGAERMPRAPGGFECFHCHKPYHTLAGLARHRQLHCHLQVG  
RVFTCKYCDKEYTSLGALKMHIRTHTLPCTCKICGKAFSRPWLLQGHVRTHTGEKPYACS  
HCSRAFADRSNLRAHLQTHSDAKKYRCRRCTKTFSRMSLLARHEESGCCPGP

>sp|Q16613|SNAT\_HUMAN Serotonin N-acetyltransferase OS=Homo sapiens GN=AANAT PE=1 SV=1

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GVCPLYLDEIRHFLTLCPELSLGFEEGCLVAFIIGSLWDERLQMESLTLHRSGGHIAH  
LHVLAVHRAFRQQGRGPILLWRYLHHLGSQPAVRRALMCEDALVPFYERFSFHAVGPCA  
ITVGS LTFMELHCSLRGHPFLRRNSGC

>sp|O43759|SNG1\_HUMAN Synaptogyrin-1 OS=Homo sapiens GN=SYNGR1 PE=1 SV=2

MEGGAYGAGKAGAFDPYTLVRQPHTILRVVSWLFSIVVFGSIVNEGILNSASEGEEFCI  
YNNRNPACSYGVAVGVLAFLTCLLYLALDVYFPQISSVKDRKKAVLSDIGVSAFWAFLWF  
VGFCYLANQWQVSKPDNPLNEGTDAAARAAIAFSFFSIFTWAGQAVLAFQRYQIGADSAL  
FSQDYMDSQDSSMPYAPYVEPTGPDPAAGMGTYQQPANTFDTEPQGYQSQGY

>sp|O75971|SNPC5\_HUMAN snRNA-activating protein complex subunit 5 OS=Homo sapiens  
GN=SNAPC5 PE=1 SV=1

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>sp|Q6IEG0|SNR48\_HUMAN U11/U12 small nuclear ribonucleoprotein 48 kDa protein OS=Homo  
sapiens GN=SNRNP48 PE=1 SV=2

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IIENDSDLFVDLAAKINQDNSRKSPKSYLEILAEVRDYKRRRQSYRAKNVHITKKSYTEV  
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>sp|Q13424|SNTA1\_HUMAN Alpha-1-syntrophin OS=Homo sapiens GN=SNTA1 PE=1 SV=1

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LAADQTEALFVGDAILSVNGEDLSSATHDEAVQVLKKTGKEVVLEVYMKDVSYPYFKNST  
GGTSVGWDSPPASPLQRQPSSPGPTPRNFSEAKHMSLKMAYVSKRCTPNDEPRYLEICS

ADGQDTLFLRAKDEASARSWATAIQAQVNTLTTPRVKDELQALLAATSTAGSQDIKIGWL  
TEQLPSGGTAPTLALLTEKELLYLSLPETREALSRPARTAPLIATRLVHSGPSKGSVPY  
DAELSFALRTGTRHGVDTLHFSVESPQELAAWTRQLVDGCHRAAEGVQEVSTACTWNGRP  
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>sp|Q9NSN8|SNTG1\_HUMAN Gamma-1-syntrophin OS=Homo sapiens GN=SNTG1 PE=1 SV=1

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VVQVLNAGEEVTLTVSFLKRAPFLKLPLNEDCACAPSDQSSGTSSPLCDSGLHLNYHP  
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TGIIQCLSAEDCDWLQAIATNISNLTKHNIKKINRNPVNQQIYMGWCEAREQDPLQD  
RVYSPTFLALRGSCLYKFLAPPVTTWDWTRAETFSVYEIMCKILKDSDLLDRRKQCFTV  
QSESGEDLYFSVELESDLAQWERAFQTATFLEVERIQCKTYACVLESHLMGLTIDFSTGF  
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>sp|Q9Y675|SNURF\_HUMAN SNRPN upstream reading frame protein OS=Homo sapiens GN=SNURF PE=1 SV=1

MERARDRLHLRRTTEQHVPEVEVQVKRRRTASLSNQCQLYPRRSQQQVVPVDFQAE LR  
QAFLAETPRGG

>sp|Q53GS9|SNUT2\_HUMAN U4/U6.U5 tri-snRNP-associated protein 2 OS=Homo sapiens GN=USP39 PE=1 SV=2

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EKLCISISLSHINAYACLVCQKYFQGRGLKSHAYIHSVQFSHHVFLNLHTLKFYCLPDNYE  
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QALSNVPLRNYFLEEDNYKNIKRPPGDIMFLLVQRFGELMRKLWNPRNFKAHVSPHEML  
QAVVLCSSKKTFTQITKQGDGVDFLSWFLNALHSALGGTKKKKKTI VTDVFQGS MRIFTKKL  
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KFNGITEKEYKTYKENFLKRFQTLKLPYLIFCIKRFTKNNFFVEKNPTIVNFPITNVDL  
REYLSEEVQAVHKNTTYDLIANIVHDGKPSEGSYRIHVLHHGTGKWYELQDLQVTDILPQ  
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>sp|Q13573|SNW1\_HUMAN SNW domain-containing protein 1 OS=Homo sapiens GN=SNW1 PE=1 SV=1

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PKEVMNADDPDLQRPDEEAIKEITEKTRVALEKSVSQKVAAMPVRAADKLAPAQYIRYT  
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EQQEWKIPPCISNWNKAGYTIPLDKRLAADGRGLQTVHINENFAKLAEALYIADRKARE  
AVEMRAQVERKMAQKEKEKHEEKLREMAQKARERRAGIKTHVEKEDGEARERDEIRHDDR  
KERQHDRNLSRAAPDKRSKLQRNENRDI SEVIALGVNPRTSNEVQYDQRLFNQSKGMDS  
GFAGGEDEIYNVYDQAWRGKDMAQS IYRPSKNLDKDMYGDDLEARIKTNRFVPDKEFSG  
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>sp|Q8N9S9|SNX31\_HUMAN Sorting nexin-31 OS=Homo sapiens GN=SNX31 PE=1 SV=3

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IFLPNEQSIRIEIITSSTAERVLEVSSHKIGLCRELLGYFGLFLIRFGKEGKLSVVKKLA  
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QAQRQKLEAFQKEDSQTKFLELAREVRHYGYLQLDPCTCDYPESGSGAVLSVGNNEISCC  
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YTKQAFLLSSCLKKMISEKMKLAAENTEMQIEVPEQSKSKKYHIQQSQQKDYSSFLSRK  
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>sp|Q9Y5X3|SNX5\_HUMAN Sorting nexin-5 OS=Homo sapiens GN=SNX5 PE=1 SV=1

MAAVPELLQQQEEDRSKLRSVSVDLNVDPSLQIDIPDALSERDKVKFTVHTKTTLPTFQS  
PEFSVTRQHEDFWLHDTLIETTDYAGLIIPPATKPDFDGPREFKMQKLGEGEGSMTKEE  
FAKMKQELEAEYLAVFKKTVSSHEVFLQRLSSHPVLSKDRNFHVFLFYDQDLSVRRKNTK  
EMFGGFFKSVVKSADDEVLTGVKEVDDFFEQEKNFLLNYNRIKDSCKVADKMTSRSHKNV  
ADDYIHTAACHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYML  
NIEAAKDLLYRRTKALIDYENSNAKLDKARLKSQDKLAEAHQQECCQKFEQLSESAKEE  
LINFKRKRVAAFRKNLIEMSELEIKHARNNVSLQSCIDLFKNN

>sp|P00441|SODC\_HUMAN Superoxide dismutase [Cu-Zn] OS=Homo sapiens GN=SOD1 PE=1 SV=2

MATKAVCVLKGDPVQGIINFEQKESNGPVKVGSIKGLTEGLHGFHVHEFGDNTAGCTS  
AGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGADVSIEDSVISLGDHCCIIGRTLTV  
HEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ

>sp|Q8WY21|SORC1\_HUMAN VPS10 domain-containing receptor SorCS1 OS=Homo sapiens GN=SORCS1  
PE=1 SV=3

MKGVGAGGGSQARLSALLAGAGLLILCAPGVCGGGSCCPSHPSSAPRSASTPRGFSHQG  
RPGRAPATPLPLVVRPLFSVAPGDRALSLEARGTGASMAVAARSGRRRRSGADQEKAER  
GEGASRSPRGVLRDGGQQEPGTRERDPDKATFRMEELRLTSTTFALTGDSAHNQAMVHW  
SGHNSSVILILTKLYDYNLGSITESSLWRSTDYGTTYEKLNDKVGLKTIILSYLYVCPTNK  
RKIMLLTDPEIESSLLISSDEGATYQKYRLNFYIQSLLFHPKQEDWILAYSQDQKLYSSA  
EFGRRWQLIQEGVVPNRFYWSVMGSNKEPDLVHLEARTVDGSHYLCRMQNCTEANRNQ  
PFPGYIDPDSLIVQDHYVVFVQLTSGGRPHYVVSYRRNAFAQMKLPKYALPKDMHVISTDE  
NQVFAAVQEWNNQNDTYNLYISDTRGVYFTLALENVQSSRGPEGNIMIDLYEVAGIKGMFL  
ANKKIDNQVKTFITYNKGRDWRLQAPDIDLGRDPVHCLLPYCSLHLHLKVSENPTYSGI  
IASKDTAPSIIVASGNIGSELSDTDISMVSSDAGNTWRQIFEEHESVLYLDQGGVLVAM  
KHTSLPIRHLWLSFDEGRSWSKYSFTSIPLFVDGVLGEPGEETLIMTVFGHFSHRSEWQL  
VKVDYKSIIDRRCAEEDYRPWQLHSQGEACIMGAKRIYKKRKSERKCMQKGYAGAMESEP  
CVCTEADFCDYGYERHSNGQCLPAFWFNPSSLKDCSLGQSYLNSTGYRKVVSNNCTDG  
VREQYTAQPKCPGKAPRGLRIVTADGKLTAEQGHNVTLMVQLEEGDVQRTLIVDFDGD  
IAVSYVNLSSMEDGIKHVYQNVGIFRVTQVDNSLGSASVLYLHVTCPLHVHLSLPFV  
TTKNKEVNATAVLWPSQVGTLYVWWYGNTEPLITLEGSISFRFTSEGMNTITVQVSAG  
NAILQDTKTIIVYEEFRSLRSLFSPNLDDYNPDIPWRRDIGRVIKSLVEATGVPQGHI  
LVAVLPGLPTTAELFVLPYQDPAGENKRSTDDLEQISELLIHTLNQNSVHFELKPGVRVL  
VHAHLTAAPLVDLTPTHSGSAMLMLLSVVFVGLAVFVIYKFKRRVALPSPSPSTQPGD  
SSLRLQRRARHATPPSTPKRGSAGAQYAI

>sp|Q96PQ0|SORC2\_HUMAN VPS10 domain-containing receptor SorCS2 OS=Homo sapiens GN=SORCS2  
PE=1 SV=3

MAHRGPRASKGPGPTARAPSPGAPPPRSPRSRPLLLLLLLLGACGAAGRSPEPGRLGP  
HAQLTRVPRSPAGRAEPGGGEDRQARGTEPGAPGSPGPAPGPGEDGAPAAGYRRWERA

APLAGVASRAQVSLISTSFVLKGDATHNQAMVHWTGENSSVILILTKYYHADMGKVLESS  
LWRSSDFGTSYTKLTLQPGVTTVIDNFYICPTNKRKVIIVSSSLSDRDQSLFLSADEGAT  
FQKQPIPFVETLIFHPKEEDKVLAYTKESKLYVSSDLGKKWTLLQERVTKDHVFSVSG  
VDADPDLVHVEAQDLGGDFRYVTCAIHNCSEKMLTAPFAGPIDHGSLTVQDDYIFFKATS  
ANQTKYYVSYRRNEFVLMKLPKYALPKDLQIIISTDESQVFVAVQEWYQMDTYNLYQSDPR  
GVRYALVLQDVRSSRQAEESVLIDILEVRGVKGVFLANQKIDGKVMTLITYNKGWDYDYL  
RPPSMDMNGKPTNCKPPDCHLHLHLRWADNPVYSGTVHTKDTAPGLIMGAGNLGSQLEVEY  
KEEMYITSDCGHTWRQVFEEHHILYLDHGGVIVAIDKTSIPLKILKFSVDEGLTWSTHN  
FTTSTSVFVDGLLSEPGDETLMVTVFHGISFRSDWELVKVDFRPSFSRQCGEEDYSSWELS  
NLQGDRCIMGQQRFRKRKSTSWCIKGRSFTSALTSRVCECRDSDFLCDYGFERSSESSES  
STNKCSANFWFNPLSPDDCALGQTYTSSLGYRKVVSNVCEGGVDMQSQVQLQCPLTPP  
RGLQVSIQGEAVAVRPGEDVLFVVRQEQGDVLTTKYQVDLGDGFKAMYVNLTLTGEPIRH  
RYESPGIYRVSVRAENTAGHDEAVLFVQVNSPLQALYLEVVPVIGLNQEVNLTAVLLPLN  
PNLTVFYWWIGHSLQPLLSLDNSVTTRFSDTGDVRVTVQAACGNSVLQDSRVLRLVDQFQ  
VMPLQFSKELDAYNPNTPEWREDVGLVVTRLLSKETSVPQELLVTVVKPGLPTLADLYVL  
LPPRPTRKRSLSDDKRLAAIQVLNAQKISFLLRGGVRVLVALRDTGTGAEQLGGGGGY  
WAVVVLVFIGLFAAGAFILYKFKRKRPGRTVYAQMNEKEQEMTSPVSHSEDEVQGAQGN  
HSGVVLINSREMHSYLV

>sp|Q9NZQ3|SPN90\_HUMAN NCK-interacting protein with SH3 domain OS=Homo sapiens GN=NCKIPSD  
PE=1 SV=1

MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLE  
QDVLQAIDRAIEAVHNTAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSASSVAVMTSS  
TSDHHLDAARQPNQVCRAGFERQHSLPSSEHLGADGGLYQIPLSSQIPPQPRRAAPT  
TPPPPVKRRDREALMASGSGGHNTMPSGGNSVSSGSSVSSTSLDTLYTSSSPSEPGSSCS  
PTPPPVPRRGTHTTVSQVQPPPSKASAEPPAEVEVATGTTSASDDLEALGTLISLGTTEE  
KAAEAAPVPTIGAEELMELVRRNTGLSHELCRVAIGIIIVGHIQASVPASSPVMEQVLLSL  
VEGKDSLMLPSGQVCHDQQRLEVFADLARRKDDAQQRSWALYEDEGVIRCYLEELLHI  
LTDADPEVCKMKCRNEFESVLALVAYYQMEHRASLRLLLLKCFGAMCSLDAIIISTLVS  
SVLPVELARDMQTDTQDHQKLCYSALILAMVFSMGEAVPYAHYEHLGTPFAQFLLNIVED  
GLPLDTTEQLPDLVCNLLLALNLHLPADQNVIMAALSKHANVKIFSEKLLLLLNRGDDP  
VRIFKHEPQPPHSLKFLQDVFGSPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEY  
LSLMHAIVRTTPYLQHRHRLPDLQAILRRIINEETSPQCQMDRMIVREMCKEFLVLGEA  
PS

>sp|Q6PJ21|SPSB3\_HUMAN SPRY domain-containing SOCS box protein 3 OS=Homo sapiens GN=SPSB3  
PE=1 SV=2

MARRPRNSRAWHFVLSAARRDADARAVALAGSTNWGYSDGQHSDDSDPEYSTLPPSIP  
SAVPVTGESFCDCAGQSEASFCSLHSAHRGRDCRCGEDEYFDVWDDLNKSSATLLSC  
DNRKVSFHMESYCGTAAIRGTELGEGQHFWEIKMTSPVYGTDMMVGIGTSDVDLDKYRH  
TFCSLLGRDEDSWGLSYTGLLHHKGDKTSFSSRFQGSIIIGVHLDTWHGTLTFFKNRKC  
GVAATKLQNKRFYPMVCSTAAARSSMKVTRSCASATSLQYLCCHRLRQLRPDSGDTLEGLP  
LPPGLKQVLHNKLGWVLSMCSRRKAPVSDPQAATSAHPSSREPRPCQRKRCRRT

>sp|Q96N06|SPT33\_HUMAN Spermatogenesis-associated protein 33 OS=Homo sapiens GN=SPATA33  
PE=2 SV=1

MVTHAAGARTFCEEQKKGSTYSVPKSKEKLEKHSQEARQADRESEKPVDSLHPGAGTAK



HPPPAASLEEKPDVKQKSSRKKVVVPQIIITRASNETLVSCSSSGSDQQRTIREPEDWGP  
YRRHRNPSTADAYNSHLKE

>sp|O60687|SRPX2\_HUMAN Sushi repeat-containing protein SRPX2 OS=Homo sapiens GN=SRPX2  
PE=1 SV=1

MASQLTQRGALFLLFFLTPAVTPTWYAGSGYYPDESNEYVAEEVPQAPALDYRVPRWCY  
TLNIQDGEATCYSKGGNYHSSLGTRCELSCDRGFRLIGRRSVQCLPSRRWSGTAYCRQM  
RCHALPFITSGTYTCTNGVLLDSRCDYSCSSGYHLEGDRSRICMEDGRWSGGEPVCVDID  
PPKIRCPHSREKMAEPEKLTARVYWDPLVKDSADGTITRVTLRGPEPGSHFPEGEHVIR  
YTAYDRAYNRASCKFIVKVQVRRCP TLKPPQHGYLTCTSAGDNYGATCEYHCDGGYDRQG  
TPSRVCQSSRQWSGSPPICAPMKINNVNSAAGLLDQFYEQRLLIISAPDPSNRYKMQ  
ISMLQQSTCGLDLRHVTIIELVGQPPQEVGRIREQQLSANIEELRQFQRLTRSYFNMVL  
IDKQGIDRDYMEPVTPEEIFTFIDYLLSNQELTQRREQRDICE

>sp|P78539|SRPX\_HUMAN Sushi repeat-containing protein SRPX OS=Homo sapiens GN=SRPX PE=1  
SV=1

MGSPAHRPALLLLLPLLLLLLLRVPPSRSPFGSGDSPLEDDEVGYSHPRYKDTPWCSPI  
KVKYGDVYCRAPQGGYYKTALGTRCDIRCQKGYELHGSSLLICQSNKRWSDKVICKQKRC  
PTLAMPANGGFKCVDGAYFNSRCEYYCSPGYTLKGERTVTCMDNKAWSGRPASCVDMPEP  
RIKCPSVKERIAEPNKLTVRVSWETPEGRDTADGILTDVILKGLPPGSNFPEGDHKIQYT  
VYDRAENKGTCKFRVKVRVKRCGKLNAPENGYMKCSSDGDNYGATCEFCIGGYELQGSP  
ARVCQSNLAWSGTEPTCAAMNVNVGVRTAAALLDQFYEKRRLLIVSTPTARNLLYRLQLG  
MLQQAQCGDLRHITVVELVGFPTLIGRIGAKIMPPALALQLRLLRIPLYFSMVLVD  
KHGMDKERYVSLVMPVALFNLIDTFPLRKEEMVLQAEMSQTCNT

>sp|Q9BXP5|SRRT\_HUMAN Serrate RNA effector molecule homolog OS=Homo sapiens GN=SRRT PE=1  
SV=1

MGDSDEYDRRRRDKFRERSDYDRSRERDERRRGDDWNDREWDRGRERRSRGEYRDYDR  
NRRERFSPPRHELSPQKMRMRDWEHSSDPYHSGYEMPYAGGGGGPTYGPPQPWGHDPV  
HIMQHHVLP IQARLGSIAEIDLGVPPVMKTFKEFLSLDSDVDETEAVKRYNDYKLDLR  
RQQMQDFFLAHKDEEWFRRSKYHPDEVGKRRQEARGALQNRRLRVFLSLMETGWFDNLLLDI  
DKADAIVKMLDAVVKMEGGTENDLRILEQEEEEEQAGKPGEPSKKEEGRAGAGLDGER  
KTNDKDEKKEDGKQAENDSSNDKTKKSEGDGDKEKKEDSEKEAKKSSKKRNRKHSRDD  
SFDEGSVSESESESESGQAEKEEKEAEALKEKEKPKEEWEKPKDAAGLECKPRPLHKT  
CSLFMRNIAPNISRAEIIISLKRYPGFMRVALSEPQPERFFRGGWTFDRSVNIKEICW  
NLQNIRLRECELSPGVNRDLTRVRNINGITQHKQIVRNDIKLAAKLIHTLDDRTQLWAS  
EPGTPPLTPSLSQNPILKNITDYLIEEVSAAAAEELLGSSGGAPPEPPKEGNPAEINVE  
RDEKLIKVLDKLLLYLRIVHSLDYNTCEYPNEDEMPNRCGIHVRGPMPPNRISHGEVL  
EWQKTFEEKLTPLLSVRESLSEEAQKMGRKDPEQEVEKFVTSNTQELGDKWLCPLSGK  
KFKGPEFVRKHIFNKHAEKIEEVKKEVAFFNNFLTDAKRPALPEIKPAQPPGPAQILPPG  
LTPGLPYPHQTPQGLMPYGQPRPPI LGYGAGAVRPAVPTGGPPYPHAPYGAGRGNYDAFR  
GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDF

>sp|Q05519|SRSF11\_HUMAN Serine/arginine-rich splicing factor 11 OS=Homo sapiens GN=SRSF11  
PE=1 SV=1

MSNTTVVPSTAGPGPSGGPGGGGGGGGGGGTEVIQVTNVSPSASSEQMRTLFGFLGKID  
ELRLFPDDSPVSSRVCFVKFHDPSAVVAQHLTNTVFVDRALIVPYAEGVIPDEAK  
ALSLLAPANAVAGLLPGGGLLPTNPPLTQIGAVPLAALGAPTLDPALAALGLPGANLNSQ

SLAADQLLKL MSTVDPKLNHVAAGLVSPSLKSDTSSKEIEEAMKRVREAQSLISAAIEPD  
KKEEKRRHSR SRSR SRRRRT PSSSRHRRSR SRSR RRRSHSKSR SRRRSKSPRRRRSHSRER  
GRRSRSTSKTRDKKKEDKEKKRSKTPPKSYSTARRSRASRERRRRSRSGTRSPKKPRS  
PKRKL SRSPSPRRHKKEKKKDKDKERSRDERERSTSKKKKSKDKEKDREKSESDDKDVQ  
VTRDYDEEEQGYDSEKEKKEKKPIETGSPKTKECSVEKGTGDSLRESKVNGDDHHEEDM  
DMSD

>sp|Q01130|SRSF2\_HUMAN Serine/arginine-rich splicing factor 2 OS=Homo sapiens GN=SRSF2  
PE=1 SV=4

MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYGRVGDVYIPRDRYTKESRGFAFV  
RFHDKRDAEDAMDAMDGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGGYGRRSR  
SPRRRRSRSR SRSR SRSR SRYSR SKSR SRTRSR SRSTSKSR SARSKSKSSSVSR SR  
SRSR SRSR SRSPPVSKRESKSR SRSKSPPKSPEEEGAVSS

>sp|Q08170|SRSF4\_HUMAN Serine/arginine-rich splicing factor 4 OS=Homo sapiens GN=SRSF4  
PE=1 SV=2

MPRVYIGRLSYQARERDVERFFKGYGKILEVDLKNYGFVEFDDL RDADDAVYELNGKDL  
CGERVIVEHARGPRRDGSYGSGRSGYGYRRSGRDKYGPPTREYRLIVENLSSRCWQDL  
KDYMRQAGEVTYADAHKGRKNEGVI EFVSYS DMKRALEKLDGTEVNGRKIRLVEDKPGSR  
RRRSYSR SRSHSR SRSR SRHSR SKSR SRSGSKSSH SKSR SRSRSGSR SRSKSR SRSQSR  
RSKKEKSRSPSKEKSR SRSHSAGSR SKSKDQAE EKIQNNDNVGPKSRSPSRHKS KSKS  
RSRQERRVEEEKRGSVSRGRSQE KSLRQSR SRSR SRKGGSR SRSR SRSKSKDKRKGRKRS  
REESR SRSR SRSKSESR SRKRGSKRDSKAGSSK KKKKEDTDRSQSRSPSRSVSKEREHAKS  
ESSQREGRGESENAGTNQETR SRSR SRNSKSKPNLPSESR SRSKSASKTRSR SRSKSR SRAS  
RSPSR SRSR SHSR

>sp|Q9BRL6|SRSF8\_HUMAN Serine/arginine-rich splicing factor 8 OS=Homo sapiens GN=SRSF8  
PE=1 SV=1

MSCGRPPPDVDGMITLKVDNLTYRTSPDSLRRVFEKYGRVGDVYIPREPHTKAPRGFAFV  
RFHDDRDAQDAEAAMDGAELDGRELRVQVARYGRRDLPRSRQGEPRGRSRGGGYGRRSR  
YGRSRSPRRHRSR SRGPSCSR SRSR SRYSRGSRYSRSPYSRSPYSRSPYSRSPYSR  
RESRYGGSHYSSSGYSNRYSRYSRSHSKSGSSTSSRSASTSKSSSARRSKSSSVSR  
RSR SRSSSMTRSPPRVSKRKSKSR SRSKRPPKSPEEEGMSS

>sp|043805|SSNA1\_HUMAN Sjogren syndrome nuclear autoantigen 1 OS=Homo sapiens GN=SSNA1  
PE=1 SV=2

MTQQGAALQNYNNELVKCIEELCQKREELCRQIQEEDEKQRLQNEVRQLTEKLARV NEN  
LARKIASRNEFDRTIAETEAAYLKILESSQTLLSVLKREAGNLTKATAPDQKSSGGRDS

>sp|P35346|SSR5\_HUMAN Somatostatin receptor type 5 OS=Homo sapiens GN=SSTR5 PE=1 SV=3

MEPLFPASTPSWNASSPGAASGGDNRTL VGPA SAGARAVLVPVLYLLVCAAGLGNTL  
VIYVVLRFAMKTVTNIYILNLAVADVLYMLGLPFLATQNAASF WFGPVL CRLVMTLDG  
VNQFTSVFCLTVMSVD RYLAVVHPLSSARWRRPRVAKLASAAAWVLSLCMSLPLL VFADV  
QEGGTCNASWPEPVGLWGAVFIIYTAVLGFFAPLLVICLCYLLIVVKVRAAGVRVGCVR  
RSERKVTRMVLVVVLVFAGCWL PFFT VNI VNLAVALPQEPASAGLYFFV VILSYANSCAN  
PVLYGFLSDNFRQSFQKVLCLRKSGAKDADATEPRPDRI RQQEATPPAHRAAANGLMQ  
TSKL

>sp|P43307|SSRA\_HUMAN Translocon-associated protein subunit alpha OS=Homo sapiens GN=SSR1  
PE=1 SV=3

MRLLPRLLLLLLVFPATVLFRRGPRGLLAVAQDLTEDEETVEDSIIIEDEDDEAEVEEDE  
PTDLVEDKEEEDVSGEPEASPSADTTILFVKGEDFPANNIVKFLVGFTNKGTEDFIVESL  
DASFRYPQDYQFYIQNFTALPLNTVVPQRQATFEYSFIPAEPMGGRPFGLVINLNYKDL  
NGNVFQDAVFNQTVTVIEREDGLDGETIFMYMFLAGLGLLVIVGLHQLLESRKRRPIQK  
VEMGTSSQNDVMSWIPQETLNQINKASPRRLPRKRAQKRSVGSDE

>sp|Q9UNL2|SSRG\_HUMAN Translocon-associated protein subunit gamma OS=Homo sapiens GN=SSR3  
PE=1 SV=1

MAPKGSSKQQSEEDLLLQDFSRNLSAKSSALFFGNAFIVSAIPIWLYWRIWHMDLIQSAV  
LYSVMTLVSTYLVAFAFKNVKFLVKKHVAQKREDAVSKEVTRKLSEADNRKMSRKEKDER  
ILWKKNEVADYEATTFISFYNNLFLVIVIVASFFILKNFNPTVNYILSISASSGLIALL  
STGSK

>sp|Q08945|SSRP1\_HUMAN FACT complex subunit SSRP1 OS=Homo sapiens GN=SSRP1 PE=1 SV=1

MAETLEFNDVYQEVKGSMDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGH  
GLKLLTKNGHVYKYDGFRESEFEKLSDFFKTHYRLELMEKDLCKVGNWGTVKFGGQLLS  
FDIGDQPVFEIPLSNVSQCTTGKNEVTLEFHQNDDAEVSLEMEVRFYVPPTQEDGVDPVEA  
FAQNVLSKADVIQATGDAICIFRELQCLTPRGYDIRIYPTFLHLHGKTFDYKIPYTTVL  
RLFLLPHKDQRQMFVISLDPPIKQGQTRYHFLILLFSKDEDISLTLNMNEEEVEKRFEG  
RLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHGAQCITCSYKASSGLLYPLERGF  
YVHKPPVHIRFDEISFVNFARGTTTTSFDFEIEETKQGTQYTFSSIEREEYGKLFDFVNA  
KKLNIKNRGLKEGMNPSYDEYADSDQHDAYLERMKEEGKIREENANDSSDSDGEETDE  
SFNPGEEEEVAAEFDSNASASSSSNEGSDRDEKKRKLKAKMAKDRKSRRKPVEVKK  
GKDPNAPKRPMSAYMLWLNASREKIKSDHPGISITDLSSKAGEIWKGMSKEKKEEWRKA  
EDARRDYEKAMKEYEGRGESSKRDKSKKKKKVVKMEKKSTPSRGSSSKSSSRQLESF  
KSKEFVSSDESSGENSKKKRRRSEDSEEEELASTPPSSEDSASGSDE

>sp|P28370|SMCA1\_HUMAN Probable global transcription activator SNF2L1 OS=Homo sapiens  
GN=SMARCA1 PE=1 SV=2

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VSSFQLKLAAPKSEKEMDPEYEEKMKADRAKRFELKQTELFHFHQPSAQKSPTSP  
LNMKLGRPRIKKDEKQSLISAGDYRHRRTQEEDDELLSESRTSNVCIRFEVSPSYVK  
GPLRDYQIRGLNWLISLYENGNGILADEMGLGKTLQTIALLGYLKHYRNIPGPHMVLVP  
KSTLHNWMEFKRWVPSLRVICFVGDKDARAAFIREDMMPGEWDVCVTSYEMVIKEKSVF  
KKFHWRYLVIDEAHRKNEKSKLSEIVREFKSTNRLLLGTPLQNNLHELWALLNLLPD  
VFNSADDFDSWFDTKNCLGDQKLVERLHAVLKPFLRRIKTDVEKSLPPKKEIKIYGLS  
KMQREWYTKILMKDIDVLNSSGKMDKMRLLNILMQLRKCCNHPYLFDAEPGPPYTDEH  
IVSNSGKMVVDKLLAKLKEQGSRLIFSQMTRLLDILEDYCMWRGYEYCRLDGQTPHEE  
REDKFLEVEFLGQREAEAFNAPNSSKFIIFMLSTRAGGLGINLASADVILYDSWNPQV  
DLQAMDRAHRIGQKKPVRVFRLLTDNTVEERIVERAEIKRLDSIVIQQGRLIDQQSNKL  
AKEEMLQMIRHGATHVFASKESELTEDEITILERGEKKAEMNERLQKMGESSLRNFRM  
DIEQSLYKFEGEDYREKQKLGMEVWIEPPKRERKANYAVDAYFREARVSEPKIPKAPRP  
PKQPNVQDFQFFPRLFELLEKEILYRKTIGYKVPNRNPDPNPAQREEQKKIDGAEP  
LTPEETEEKEKLLTQGFTNWKRFDFNQFIKANEKYGRDDIDNIAREVEGKSPEEVMEYSA  
VFWERCNELQDIEKIMAQIERGEARIQRRISIKKALDAKIARYKAPFHQLRIQYGTSGK  
NYTEEDRFLICMLHKMGFDRENVYEELRQCVRNAPQFRFDWFIKSRTAMEFQRRCNTLI  
SLIEKENMEIEERERAEEKKRATKTPMVKFSAFS

>sp|P51532|SMCA4\_HUMAN Transcription activator BRG1 OS=Homo sapiens GN=SMARCA4 PE=1 SV=2  
MSTDPPLGGTPRPGSPGPGSPGAMLGPSGPGSPGSAHSMGPGSPGPSAGHIPPTQG  
PGGYPPQDNMHQMHPMESMHEKGMSDDPRYNQMKGMGRSGGHAGMGPPSPMDQHSQGY  
PSPLGGSEHASSVPASGPSSGPGQMSGPGGAPLDGADPQALGQQNRGPTPFNQNLHQL  
RAQIMAYKMLARGQPLPDHLQMAVQGKRPMQMGQQMPTLPPPSVSATGPGPGPGPGPGP  
GPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGPGPPKPWPEGPMANAAAPTSTPQ  
KLIPPQPTGRPSAPPAPVPAASVPMPPQTQSPGQPAQAPAPMVPLHQKQSRITPIQKPRG  
LDPVEILQEREYRLQARIAHRIQELENLPGSLAGDLRTKATIELKALRLNLFQRQLRQEV  
VVMRRDTALETALNAKAYKRSKRQSLREARITEKLEKQKQIEQERKRRQKHQEYLSIL  
QHAKDFKEYHRSVTGKIQLTKAVATYHANTEREQKKENERIEKERMRLMAEDEEGYRK  
LIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAQVAKKKKKKKKAENAEGQTPAIG  
PDGEPLDETSQMSDLPVKVIHVESGKILGTADAPKAGQLEAWLEMNPGYEVAPRSDSEES  
GSEEEEEEEEEEQPAAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVEDDEYGV  
SQALARGLQSYAVAHAVTERVDKQSALMVNGVLKQYQIKGLEWLVS LYNNNLNGILADE  
MGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKWAPSVVKVSYKGSPAA  
RRAFVPQLRSGKFNVLTTTYEYIIKDKHILAKIRWKYIMVDEGHRMKNHHCKLTQVLNTH  
YVAPRRLLLTGTPLNKLPWALLNLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEE  
TILIIIRRLHKVLRPFLRLRLKKEVEAQLPEKVEYVIKCDMSALQRLVYRHMQAKGVLLTD  
GSEKDKKGGGKTLMNTIMQLRKICNHPYMFQHIEESFSEHLGFTGGIVQGLDLYRASG  
KFELLDRIPLKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLRLDGTTKAEDRGMLLK  
TFNEPGSEYFIFLLSTRAGGLGSLNLSADTVIIFDSDWNPHQDLQAQDRAHRIGQQNEVR  
VLRLLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDESR  
HCSTGSGSASFHTAPPPAGVNPDLPEPPLKEEDEVPDDETQNMIAHHEEEFDLFRMD  
LDRRREEARNPKRKPRLMEDELPSWIIKDDAEVERLTCEEEEEKMFGRGSRHRKEVDYS  
DSLTEKQWLKAIIEGTLEEIEEEVRQKKSSRKRKRDSAGSSTPTTSTRSRDKDDESKKQ  
KKRGRPPAEKLSNPPNLTKKMKKIVDAVIKYDSSSGRQLSEVFIQLPSRKELPEYYEL  
IRKPVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQTFNLEGLIYEDSIVLQSVFTSV  
RQKIEKEDDSEGESEEEEEEGESESSESRVVKVIKLRKEKAQDRLKGGRRRPSRGS  
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>sp|Q9NPB0|SMDC1\_HUMAN SAYSVFN domain-containing protein 1 OS=Homo sapiens GN=SAYSD1 PE=2  
SV=1  
MEQRLAEFRAARKRAGLAAQPPAASQGAQTPGEKAEAAATLKAAPGWLKRFLVWKPRPAS  
ARAQGLVQEAAQPQGSTSETPWNTAIPLPSCWDQSFLTNITFLKVLLWLVLGLFVELE  
FGLAYFVLSLFYWMYVGTGRPEEKKEGEKSAYSVFNPGEAIQGTLTAEQLERELQLRPL  
AGR

>sp|Q9HBX3|SNIT1\_HUMAN Uncharacterized protein encoded by SND1-IT1 OS=Homo sapiens  
GN=SND1-IT1 PE=4 SV=1  
MSHHPHSLRNSCLIRMDLLYWQFTIYITITFCFSLSGRLTSLAQHISHRPCLLSYLLFW  
KVHHLFLEGFPCSPRLDEMSFHQFPQHPVHVSVVHLPIVYKGSMTQVSPH

>sp|O95721|SNP29\_HUMAN Synaptosomal-associated protein 29 OS=Homo sapiens GN=SNAP29 PE=1  
SV=1  
MSAYPKSYNPFDDDEGEDEGARPPWRDARDLPDGPADADRQQYLRQEVLRRAEATAAST  
SRSLALMYESEKVGVASSEELARQGVLERTEKMDKMDQLKISQKHINSIKSVFGGLV  
NYFKSKPVETPPEQNGTLTSQPNRLKEAISTSKQEAKYQASHPNLRKLDLDDTPVPRGA

GSAMSTDAYPKNPHLRAYHQQKIDSNLDELSMGLGRLKDIALGMQTEIEEQDDILDRLTTK  
VDKLDVNIKSTERKVRQL

>sp|Q8WVK2|SNR27\_HUMAN U4/U6.U5 small nuclear ribonucleoprotein 27 kDa protein OS=Homo sapiens GN=SNRNP27 PE=1 SV=1

MGRSRSRSPRRRRRSRSTSRERERRRRERSRSRERDRRRRSRSPHRRRSRSPRRHRST  
SPSPSRLKERRDEEKKETKETKSKERQITEEDLEGKTEEEIEMMKLMGFASFDSTKGKKV  
DGSVNAYAINVSQKRKYRQYMNRKGGFNRPLDFIA

>sp|Q13884|SNTB1\_HUMAN Beta-1-syntrophin OS=Homo sapiens GN=SNTB1 PE=1 SV=3

MAVAAAAAAGPAGAGGGRAQRSGLLEVLVRDRWHKVLVNLSEDALVLSSEEGAAAYNGI  
GTATNGSFCRGAGAGHPGAGGAQPPDSPAGVRTAFTDLPEQVPESISNQKRGVKVLKQEL  
GGLGISIKGGKENKMPILISKIFKGLAADQTQALYVGDAILSVNGADLRDATHDEAVQAL  
KRAGKEVLLEVKYMREATPYVKKGSPVSEIGWETPPPESPRLGGSTSDPPSSQSFSFHRD  
RKSIPLMCYVTRSMALADPENRQLEIHSPDAKHTVILRSKDSATAQAWFSAIHSNVNDL  
LTRVIAEVREQLGKTGIAGSREIRHLGWLAEKVPGESKKQWKPALVVLTEKDLLIYDSMP  
RRKEAWFSPVHTYPLLATRLVHSGPGKQSPQAGVDLSFATRTGTRQGIETHLFRAETSRD  
LSHWTRSIVQGCHNSAELIAEISTACTYKNQECRLTIHYENGFSITTEPQEGAFPKTIIQ  
SPYEKLKMSSDDGIRMLYLDGFGKDGELQLDLHSCPKPIVFIIHSFLSAKITRLGLVA

>sp|Q9Y5X0|SNX10\_HUMAN Sorting nexin-10 OS=Homo sapiens GN=SNX10 PE=1 SV=2

MFPEQQKEEFVSVWVRDPRIQKEDFWHSYIDYEICIHNTSMCFTMTKSCVRRRYREFVWL  
RQRLQSNALLVQLPELPSKNLFFNMNRQHVDQRRQGLEDFLRKVLQNALLSDSSLHLF  
LQSHLNSIEDIACVSGQTKYSVEEAIHKFALMNRFPEDDEEGKKENDIDYDSESSSSGL  
GHSSDDSSSHGCKVNTAPQES

>sp|O95219|SNX4\_HUMAN Sorting nexin-4 OS=Homo sapiens GN=SNX4 PE=1 SV=1

MEQAPPDPERQLQPAPLEPLGSPDAGLGAAVGKEAEGAGEESSGVDTMTHNNFWLKKIEI  
SVSEAEKRTGRNAMNMQETYTAYLIETRSEHTDGGQSVLTDLSWRRYSEFELLRSYLLVY  
YPHIVVPLPEKRAEFVWHKLSADNMDPDFVERRRIGLENFLLRIASHPILCRDKIFYLF  
LTQEGNWKETVNETGFQLKADSRKALNATFRVKNPDKRFTDLKHYSDELQSVISHLLRV  
RARVADRLYGVIKVGNYGRVFEWSAIEKEMGDGLQSAGHHMDVYASSIDILEDEEHY  
ADQLKEYLFYAEALRAVCRKHELMQYDLEMAAQDLASKKQCEELVTGTVRTFSLKGMTT  
KLFGQETPEQREARIKVLEEQINEGEQQLSKNLEGREFVKNAWADIERFKEQKNRDLKE  
ALISYAVMQISMCKGIQVWTNAKECFSKM

>sp|075159|SOCS5\_HUMAN Suppressor of cytokine signaling 5 OS=Homo sapiens GN=SOCS5 PE=1 SV=1

MDKVGKMWNNFKYRCQNLFGHEGGSRSENVDMNSNRCLSVKEKNISIGDSTPQQQSSPLR  
ENIALQLGLSPSKNSSRRNQNCATEIPQIVEISIEKDNDSCVTPGTRLARRDSYSRHAPW  
GGKKKHSCSTKTQSSLDADKKFGRTRSGLQRRRERYGVSSVHMDSVSSRTVGSRLRQR  
LQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWHLIKQHTAPV  
SPHSTFFDFTDPSLVSTEDDRLRERRRLSIEEGVDPNPNAQIHTFEATAQVNPLYKLG  
PKLAPGMTEISGDSSAIPQANDSEEDTTTLCLQSRQKQRQISGDSHTVSRQGAWKVH  
TQIDYIHCLVPDLLQITGNPCYWGVMTRYEAELLEGKPEGTFLLRDSAQEDYLFVSFR  
RYNRSIHARIEQWNHNSFDAHDPCVFHSSTVTGLLEHYKDPSSCMFFEPLLTISLNRTF  
PFSLQYICRAVICRCTTYDGDIDGLPLPSMLQDFLKEYHYKQKVRVRWLEREPVKAK

>sp|Q07890|SOS2\_HUMAN Son of sevenless homolog 2 OS=Homo sapiens GN=SOS2 PE=1 SV=2

MQQAPQPYEFFSEENSPKWRGLLVSALRKVQEQVHPTLSANEESLYYIEELIFQLLNKLC

MAQPRTVQDVEERVQKTFPHPIDKWAIAADAQSAIEKRKRRNPLLLPVDKIHPSSLKEVLGY  
KVDYHVSLEYIVAVLEYISADILKLAGNYVFNI RHYEISQQDIKVS CADKVLMDMFDQDD  
IGLVSLCEDEPSSSGELNYYDLVRTEIAEERQYLRELNMIKVFREAFLSDRKLFKPSDI  
EKIFSNI SDIHELTVKLLGLIEDTVEMTDESSPHLAGSCFEDLAEQAFDPYETLSQDI  
LSPEFHEHFNKL MARPAVALHFQSIADGFKEAVRYVLPRLMLVPVYHCWHYFELLKQLKA  
CSEEQEDRECLNQAITALMNLQGSMDRIYKQYSPRRRPGDPVCPFYSHQLRSKHLAIKKM  
NEIQKNIDGWEKDIGCCNEFIMEGPLTRIGAKHERHIFLFDGLMISCKPNHGQTRLPG  
YSSAEYRLKEKFVMRKIQICDKEDTCEHKHAFELVSKDENSIIFAAKSAEEKNNWMAALI  
SLHYRSTLDRMLDSVLLKEENEQPLRLPSPEVYRFVVKDSEENIVFEDNLQSRSGIPIIK  
GGTVVKLIERLTYHMYADPNFVRTFLT TYRSFCKPQELLSLLIERFEIPEPEPTDADKLA  
IEKGEQPI SADLKRFRKEYVQPVQLRILNVFRHWVEHHFYDFERDLELLERLESFISSVR  
GKAMKKWVESIAKII RRRKKQAQANGVSHNITFESPPPIEWHISKPGQFETFDLMTLHP  
E IARQLTLLESDLYRKVQPSSELVGSVWTKEDKEINSPNLLKMIRHTTNLTWFEKCIVEA  
ENFEERVAVLSRIEILQVFQDLNNFNGVLEIVSAVNSVSVYRLDHTFEALQERKRKILD  
EAVELSQDHFKKYLVKLKSINPPCVPFPGIYLTNILKTEEGNNDFLKKKGKDLINFSKRR  
KVAEITGEIQYQNPYCLRIEPMRRFFENL NPMGSASEKEFTDYLFNKSLEIEPRNCK  
QPPRFPRKSTFSLKSPGIRPNTGRHGSTSGTLRGHPTPLEREPCKISFSRIAETELESTV  
SAPTSPNTSTPPVSASSDL SVFLDVLNSSCGSNSIFAPVLLPHSKSFFSSCGSLHKLS  
EEPLIPPPPLPRKKFDHDASNSKGNMKSDDDPPAIPPRQPPPKVKPRVPVPTGAFDGPL  
HSPPPPPPRDPLDTPPPVPLRPPEHF INCPFNLP PPLGHLHRSDWLRDISTCPNSPS  
TPPSTSPRVP RRCYVLSSSQNNLAHPAPPVPPRQNSSPHLPKLPKTYKRELSHPPPLY  
RLPLENAETPQ

>sp|Q9BQ15|SOSB1\_HUMAN SOSS complex subunit B1 OS=Homo sapiens GN=NABP2 PE=1 SV=1  
MTTETFVKDIKPGLKNLNLIFIVLETGRVTKTKDGHEVRTCKVADKTGSINISVWDDVGN  
LIQPGDIIRLTGKYASVFKGCLTYTGRGGDLQKIGEFM VYSEVPNFSEPNPEYSTQQA  
PNKAVQNSNPSASQPTTGPSAASPASENQNGNLSAPPGPGGGPHPPHTPSHPPSTRIT  
RSQPNHTPAGPPGPSSNPVSNGKETRRSSKR

>sp|Q96AH0|SOSB2\_HUMAN SOSS complex subunit B2 OS=Homo sapiens GN=NABP1 PE=1 SV=1  
MNRVNDPLIFIRDIKPLKNLNVFIVLEIGRVTKTKDGHEVRSCKVADKTGSITISVWD  
EIGGLIQPGDIIRLTGRYASMWKGCLTYTGRGGELQKIGEFM VYSEVPNFSEPNPDYR  
GQQNKGAQSEQKNNSMNSMNGTGTFGPVGNVHTGPESREHQFSHAGRSNGRGLINPQLQ  
GTASNQTVMTTISNGRDP RRAFKR

>sp|P35716|SOX11\_HUMAN Transcription factor SOX-11 OS=Homo sapiens GN=SOX11 PE=1 SV=2  
MVQQAESLEAESNLPREALDTEEGEFMACSPVALDESDPDWCKTASGHIKRPMNAFMVWS  
KIERRIMEQSPDMHNAEISKRLGKRWKMLKDSEKIPFIREAERLRLKHMADYPDYKYRP  
RKKPKMDPSAKPSASQSPEKSAAGGGGSAGGAGGAKTSKGSSKKCGKLKAPAAAGAKA  
GAGAAQSGDYGGAGDDYVLGSLRVSGSGGGGAGKTVKCVFLDEDDDDDDDELQLQIK  
QEPDEEDEEPHQQLLQPPGQPSQLLRRYNVAKVPASPTLSSSAESPEGASLYDEV RAG  
ATSGAGGGSRLYYSFKNITKQHPPLAQPALSPASSRSVSTSSSSSSGSSSGSGEDADD  
LMFDLSLNFQSASASEQQLGGGAAAGNLSLSLVDKDLDSFSEGLGSHFEFPDYCTPE  
LSEMIAGDWLEANFSDLVFTY

>sp|Q8IW75|SPA12\_HUMAN Serpin A12 OS=Homo sapiens GN=SERPINA12 PE=1 SV=1  
MNPTLGLAIFLAVLLTVKGLLKPSFSRNYKALSEVQGWKQRM AAKELARQNMDLGFKLL  
KKLAFYNPGRNIFLSPLSISTAFSMLCLGAQDSTLDEIKQGFNFRKMPEKDLHEGFHYII

HELTQKTQDLKLSIGNTLFIDQRLQPRKFLEDAKNFYSAETILTNTFNLEMAQKQINDF  
ISQKTHGKINNLIENIDPGTVMLLANYIFFRARWKHEFDPNVTKEEDFFLEKNSSVKVPM  
MFRSGIYQVGYYDKLSCTILEIPYQKNITAIFILPDEGKLKHLEKGLQVDTFSRWKTLLS  
RRVVDVSVPRLHMTGTFDLKKTLISYIGVSKIFEEHGDLTKIAPHRSLKVGEAVHKAELKM  
DERGTEGAAGTGAQTLPMETPLVVKIDKPYLLLIYSEKIPSVLFLGKIVNPIGK

>sp|Q6UXR4|SPA13\_HUMAN Putative serpin A13 OS=Homo sapiens GN=SERPINA13P PE=5 SV=1  
MEASRWWLLVTVLMAGAHCAVALDQEASDLIHSQPQDSSPGPALPCHKISVSNIIDFAFKL  
YRQLALNAPGENILFFPVSI SLALAMLSWGAPVASRTQLLEGLGFTLTVVPEEEIQEGFW  
DLLIRLRGQGPRLLL TMDQRRFSGLGARANQSLEEAQKHIDEYTEQQTQGKLGAWEKDLG  
SETTAVLVNHMLLRAEWMKPFDSHATSPKEFFVDEHSVAVVPMMEKASHRFLHDRELQC  
SVLRMDHAGNTTTFIFPNRGKMRHLEDALLPETLIKWDSLRLTREDFHFPKFSISRTC  
RLEM LLP

>sp|Q9BVQ7|SPA5L\_HUMAN Spermatogenesis-associated protein 5-like protein 1 OS=Homo sapiens GN=SPATA5L1 PE=1 SV=2  
MAPDSDPFPEGPLKLLPLDARDRGTQRCRLGPAALHALGARLGSVAVKISLPDGGSCCLCT  
AWPRRDGADGFVQLDPLCASPGAAVGASRSRRSLSLNRLLLVPCPLRRVAVWPVLRERA  
GAPGARNTAAVLEAAQELLNRNPISLGHVVVAPPGAPGLVAALHIVGGTSPDPAGLVTP  
RTRVSLGGEPPSEAQPQPEVPLGGLSEAADSLRELLRLPLRYPRALTALGLAVPRGVLLA  
GPPGVGKTQLVRAVAREAGAELLAVSAPALQGSRPGETEENVRRVFQRARELASRGPSLL  
FLDEMDALCPQGRSRAVESRVVAVQLTLLDGASGDREVVVVGATNRPDALDPALRRPGRF  
DREVVIGTPTLTKRKEILQVITSKMPISSHVDLGLLAEMTVGYVGADLTALCREAMHAL  
LHSEKNQDNPVIDEIDFLEAFKNIQPSSFRSVIGLMDIKPVDWEEIGGLEDVKLKLKQSI  
EWPLKFPWEFVRMGLTQPKGVLLYGPPGCAKTTLVRALATSCHCSFVSVSGADLFSPFVG  
DSEKVLISQIFRQARASTPAILFLDEIDSILGARSASKTGCDVQERVLSVLLNELDGVLK  
TIERRGSKSSQEFQEVFNRSVMI AATNRPDVLDTALLRPGRLDKIIYIPPPDHKGRLS  
ILKVCTKTMPIGPDVSLNLAAETCFFSGADLRNLCTEAALLALQENGLDATTVKQEHFL  
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>sp|Q86XZ4|SPAS2\_HUMAN Spermatogenesis-associated serine-rich protein 2 OS=Homo sapiens GN=SPATS2 PE=1 SV=1  
MSRKQNQKDSSGFIFDLQSNTVLAQGGAFENMKEKINAVRAIVPNKSNNIILVLQHFDN  
CVDKTVQAFMEGSASEVLKEWTVTGKKKNKKKKKNPKPAAEPSNGIPDSSKSVSIQEEQS  
APSSEKGGMNGYHVNGAINDTESVDSLSEGLETLSDARELEDPEAMLDTLDRGTGSMQLQ  
NGVSDFETKSLTMHSIHNSQQPRNAKSLSRPTTETQFSNMGMEDVPLATSKKLSSNIEK  
SVKDLQRCTVSLARYRVVVKEMDASIKKMKQAFAELESCLMDREVALLAEMDKVKAEM  
EILLRQKKAELLKMTHTVAVQMSEQLVELRADIKHFVSEKRYDEDLGRVARFTCDVET  
LKKSIDSFGQVSHPKNSYSTRCSSVTSVSLSSPSDASAASSSTCASPPSLTSANKKNF  
APGETPAAIANSSGQPYQLREVLPGNRRGGQGYRPGQKSNPMPNQRHDSMGRYRNSS  
WYSSGSRYQSAPSQAPGNTIERGQTHSAGTNGTGVSMEPSPTPSFKKGLPQRKPRTSQT  
EAVNS

>sp|Q6RVD6|SPAT8\_HUMAN Spermatogenesis-associated protein 8 OS=Homo sapiens GN=SPATA8 PE=1 SV=1  
MAPAGMSGAQDNSCLYQEIAPSFQRLPCPRTSSRHFEAMTCPCGWRPFKGGPGGLKGPV  
WPAKEENSCSHGRIQRVQRRRVPSASPLIQINRRSVLFHPYCWS

>sp|P29508|SPB3\_HUMAN Serpin B3 OS=Homo sapiens GN=SERPINB3 PE=1 SV=2

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQIKKVLHFD  
QVTENTTGKAATYHVDRSGNVHHQFQKLLTEFNKSTDAYELKIANKLFGKTYLFLQEYL  
DAIKKFYQTSVESVDFANAPESRKKINSWVESQTNEKIKNLIPEGNIGSNTTLVLVNAI  
YFKGQWEKKFNKEDTKEEFWPNKNKYKSIQMMRQYTSFHFASLEDVQAKVLEIPYKGD  
LSMIVLLPNEIDGLQKLEEKLTAEKLMEWTSLQNMRETRVDLHLPFRKVEESYDLKDTLR  
TMGMVDIFNGDADLSGMTGSRGLVLSGVLHKAFFVEVTEEGAEAAAATAVVGFSSPTSTN  
EEFHCNHPFLFFIRQKNTNSILFYGRFSSP

>sp|Q8N4L4|SPEM1\_HUMAN Spermatid maturation protein 1 OS=Homo sapiens GN=SPEM1 PE=2 SV=1  
MAMVERPRPEWASYHNCNSNSCQDLGNSVLLLLGLIICINISINIVTLLWSRFRGVLYQV  
FHDTICEKEAPKSSLLRKQTQPPKKQSSPAVHLRCTMDPVMMTVSPPPAHRHRRRGSPTR  
CAHCPVAWAPDTDDEKPHQYPAICSYHWDVPEDWEGFQHTQGTWVPWSQDAPESPPQTIR  
FQPTVEERPLKTGIWSELGLRAYVYPVNPSPPEAPSHKNGGEGAVPEAEAAQYQPVPA  
PTLGPAVIFEFSRHRSSGRIVYDARDMRRRLREL TREVEALSGCYPLASGSSTAETS KN  
WVYRSLTGR

>sp|075934|SPF27\_HUMAN Pre-mRNA-splicing factor SPF27 OS=Homo sapiens GN=BCAS2 PE=1 SV=1  
MAGTGLVAGEVVVDALPYFDQGYEAPGVREAAAALVEEETRRYRPTKNYLSYLTAPDYSA  
FETDIMRNEFERLAARQPIELLSMKRYELPAPSSGQKNDITAWQECVNSMAQLEHQAVR  
IENLEMSQHGCAWVYNENLVHMI EHAQKELQKLRKHIQDLNWQRKNMQLTAGSKLRE  
MESNWVSLVSKNYEIER TIVQLENEIYQIKQQHGEANKENIRQDF

>sp|Q6Q759|SPG17\_HUMAN Sperm-associated antigen 17 OS=Homo sapiens GN=SPAG17 PE=2 SV=1  
MAPKKEKGGTVNTSSKIWEPSLIAAQFNQNDWQASIAFVVGNI EDDLIIQALTVAVQVP  
QRKLFMSVSWQDILQQINEINTLVGSASSKKAKKPVGGNAPLYYEVLTAAKAIMDSGEKL  
TLPLIGKLLKFQLLQIKFKDQQRRENEKKVIEDKPKLEKDKGAKSPKEKKAPSAKPAKG  
KGKDQPEANAPVKKTTLKRRGEDDHTNRYIDDEPDDGAQHYYIIVVGFNPNQLLAIMAE  
L GIPITSVIKISSENYEPLQTHLAAVNQQQEVLLQSEDLAEKLLKENAIKELKTFWKYLE  
PVLNNEKPETNLFVARLEYMVKAADFPSDWSGEMMLKLGT DIFENIACLMYDILDWKR  
QHGHYLESMQLINVPQVVNEKPVLEAMPTSEAPQPAVPAPGKKKAQYEEPPQAPPPVTSVI  
TTEVDMRYNYLLNP IREEFISVPLILHCMLEQVVATEEDLVPPSLREPSPRADGLDHRI  
AAHIVSLLPSLCLSEREKKNLHDIFLSEENESKAVPKGPLLLNYHDAHAKKYALQDQK  
NFDPVQIEQEMQSKLPLWEFLQFPLPPPWNTKRLATIHLMHFCTSDVLSWNEVERAFK  
VFTFESLKLSEVDEKGLKPSGMMCGSDSEMFPNIPWDNPARFAKQIRQQYVMKMTQEAK  
QKADIKIKDRTLFVDQNLMSVQDNESNREPSDPSQCDANNMKHSDLNKLKSVPDNRQL  
LEQESIMKAQPQHESELTNNEIKDDAVTKADSHEKKPKMMVEADLEDIKKTQQRSLM  
DWSFTEHFKPKVLLQVLQEAHKQYRCVDSYHTQDNSLLLVFHNPMNRQLHCEYWNIAL  
HSNVGFRNYLELVAKSIQDWITKEEAITYQESKMNEKIIRTRAELELKSSANAKLTSASKI  
FSIKESKSNKGISKTEISDQEKEKEKEKIPFIEGSLKAWKEEQHRLAEERLREEKAE  
KKGKEAGKKKGKDNAEKEDSRSLKKKSPYKEKSKEEQVKIQEVTEESPHQPEPKITYPFH  
GYNMGNIPTQISGSNYLYPSDGGQIEVEKTMFEKGPTFIKVRVVKDNHNFMIHLNDPKE  
IVKKEEKGDYYLEEEEEEGDEEQSLETEVSDAKNAFSKFGSFSATLENGICLSISYYGSN  
GMAPEDKDPDLETILNIPSALTPTVVPVIVTVPQSKAKGKIKGKEPKESLKEEHPKEE  
EKKEEEVEPEPVLQETLDVPTFQSLNVSCPSGLLLTFIGQESTGQYVIDEPTWDIMVRQ  
SYPQVRVKHYEFYKTVMPAEQEASRVITSQGTVVKYMLDGSTQILFADGAVSRSPNSGLI  
CPPSEMPATHSGDLMDSISQKQSETIPSEITNTKKGKSHKSQSSMAHKGEIHDPPPEAV  
QTVTPVEVHIGTWFTTTPEGNRIGTKGLERIADLTPLLSFQATDPVNGTVMTTREDKVVI



VERKDGTRIVDHADGTRITTFYQVYEDQIILPDDQETTEGPRTVTRQVKCMRVESSRYAT  
VIANCEDSSCCATFGDGTIIIAKPQGTQVLPNTGSLYIDKDCSAVYCHESSSNIYYPF  
QKREQLRAGRYIMRHTSEVICEVLDPENTFQVMADGSISTILPEKKLEDDLNEKTEGYD  
SLSSMHLEKNHQQIYGEHVPRFFVMYADGSGMELLRDSIDEEYLSLAYKESNTVVLQEPV  
QEQPGTLTITVLRPFHEASPWQVKKEDTIVPPNLSRSRWETFPSVEKKTPGPPFGTIWK  
GLCIESKQLVSAPGAILKSPSVLQMRQFIQHEVIKNEVKLRQLQVSLKDYINYILKKEDEL  
QEMMVKDSRTEERGNAAADLLKLVSFPMKEETTKSHVTEVA AHLTDLFKQSLATPPKCP  
PDTFGKDFEKTWRHTASSKRWKEIDKTRKEIETTQNYLMDIKNRIIPPFKSELNQLY  
QSQYNHLDSLKKLPSFTKKNEDANETAVQDSDLNLDKPHKVSEKSSSVPSLPKPEI  
SADKKDFTAQNQTENLTKSPEEAESYEPVKIPTQSLLDVAGQTRKEVKLPHYLLSSKP  
KSQPLAKVQDSVGGKVTSSVASAAINNAKSSLFGFHLLPSSVKFGVLKEGHTYATVVKL  
KNVGVDRCFRKVKQPPSTGLKVTYKPGPVAAGMQTELNIELFATAVGEDGAKGSAHISH  
NIEIMTEHEVLFLPVEATVLTSSNYDKRPKDFPQKKNPMVQRTSTIYSSTLGVFMSRKV  
SPH

>sp|Q9NRA0|SPHK2\_HUMAN Sphingosine kinase 2 OS=Homo sapiens GN=SPHK2 PE=1 SV=2

MNGHLEAEEQQDQRPDQELTGSWGHGPRSTLVRAKAMAPPPPLAASTPLLHGEFGSYPA  
RGRPFALTLSQALHIQRLRPKEARPRGGLVPLAEVSGCCTLRSRSPSDSAAYFCIYTY  
PRGRRGARRRATRTFRADGAATYEENRAEAQRWATALTCLLRGLPLPGDGEITPDLLPRP  
PRLLLLVNPFGGRLAWQWCKNHVLP MISEAGLSFNL IQTERQNHARELVQGLSLEWDG  
IVTVSGDGLLHEVLNGLLRDPDWEAEVMPVGI LPCGSGNALAGAVNQHGGEFEPALGLDL  
LLNCSLLL CRGGGHPDLLSVTLASGSRCSFSLVAVWGFVSDVDIQSERFRALGSARFTL  
GTVLGLATLHTYRGRLSYLPATVEPASPTPAHSLPRAKSELTLTPDPAPMAHSPLHRSV  
SDLPLPLPQPALASPGSPEPLIILSLNGGPELAGDWGGAGDAPLSPDPLLSSPPGSPKA  
ALHSPVSEGAPVIIPPSSGLPLPTDARVGASTCGPPDHLLPPLGTPLPPDWVTLEGDFVL  
MLAISP SHLGADLVAAPHARFDDGLVHLCWVRSGISRAALLRLFLAMERGSHFSLGCPQL  
GYAAARAFLREPLTPRGVLTVDGEQVEYGPLQAQMHPGIGTLLTGPPGCPGREGP

>sp|P17947|SPI1\_HUMAN Transcription factor PU.1 OS=Homo sapiens GN=SPI1 PE=1 SV=2

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EFESFAENNFTELQSVQPPQLQLLYRHELEQMHVLDTPMVPPHPSLGHQVSYLPRMCLQ  
YPSLSPAQPSSDEEEGERQSPPLEVSDGEADGLEPGPGLLPGETGSKKKIRLYQFLDLL  
RSGDMKDSIWWVDKDKGTFQFSSKHKEALAHRWGIQKGNRKKMTYQKMARALRNYGKTGE  
VKKVKKKLT YQFSGEVLGRGGLAERRHPPH

>sp|Q9C004|SPY4\_HUMAN Protein sprouty homolog 4 OS=Homo sapiens GN=SPRY4 PE=1 SV=2

MEPIPIQSAPLTPNSVMVQPLDLSRMSHSRLQHPLTILPIDQVKTS HVENDYIDNPSLAL  
TTGPKRTRGGAPELAPTPARCDQDVTHHWISFSGRPSSVSSSSSTSSDQRLLDHMAPPV  
ADQASPRAVRIQPKVVHCQPLDLKGPVPPPELDKHFLLC EACGKCKCKECASPRTLPSCW  
VCNQECLCSAQTLVNYGTCMCLVQGIFYHCTNEDDEGSCADHPCSCSRSNCCARWSFMGA  
LSVVLPCLLCYLPATGCVKLAQRGYDRLRRPGCRCKHTNSVICKAASGDAKTSRPDKPF

>sp|P21549|SPYA\_HUMAN Serine--pyruvate aminotransferase OS=Homo sapiens GN=AGXT PE=1 SV=1

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KEGIQYVFQTRNPLTLVISGSGHCALEAALVNVLEPGDSFLVGANGIWGQRAVDIGERIG  
ARVHPMTKDPGGHYTLQEVEEGLAQHKPVLLFLTHGESSTGVLQPLDGFGE LCHRYKCLL  
LVDSVASLGGTPLYMDRQIDILYSGSQKALNAPPGTSLISFSDKAKKKMYSRKTKPFSF  
YLDIKWLANFWGCDQPRMYHHTIPVISLYSLRESLALIAEQGLENSWRQHREAAAYLHG

RLQALGLQLFVKDPALRLPTVTTVAVPAGYDWRDIVSYVIDHFDIEIMGGLGPSTGKVLRL  
IGLLGCNATRENVDRVTEALRAALQHCPKKKL

>sp|PODJJO|SRG2C\_HUMAN SLIT-ROBO Rho GTPase-activating protein 2C OS=Homo sapiens  
GN=SRGAP2C PE=1 SV=1

MTSPAKFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQDFFRKKAEIE  
MDYSRNLEKLAEHFLAKTRSTKDQQFKKDQNVLSPVNCWNLLLNQVKWESRDHTTSLDIY  
LNNIIPRFVQVSEDSGRFLFKKSKEVGQQLQDDLKVLNELYSVMKTYHMYNADSISAQSK  
LKEAEKQEEKQIGKSVKQEDRQTPCSPDSTANVRIEEKHVRRSSVKKIEKMKEKHQAKYT  
ENKLKAIIKAQNEYLLALEATNASVFKEYIHDLSDLIDCCDLGYHASLNRALRTFLSAEL  
NLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGDMASQLCAQQ  
PVQSELVQRCQQLQSRSLTLKIENEEVKKTMEATLQTIQDIVTVEDFDVSDCFQYSNSME  
SVKSTVSETFMSKPSIAKRRANQQETEQFYFTVRECYGF

>sp|O60232|SSA27\_HUMAN Sjogren syndrome/scleroderma autoantigen 1 OS=Homo sapiens  
GN=SSSCA1 PE=1 SV=1

MALNGAEVDDFSWEPPTAEATKVLQARRERQDRISRLMGDYLLRGYRMLGETCADCCTIL  
LQDKQRKIYCVACQELDSVDKDNPALNAQAALSQAREHQLASASELPLGSRPAPQPPVP  
RPEHCEGAAAGLKAAQGPPAPAVPPNTDVMACTQTALLQKLTWASAEIGSSTSLETISIL  
CGLIRACAEALRSLQQLQH

>sp|P81877|SSBP2\_HUMAN Single-stranded DNA-binding protein 2 OS=Homo sapiens GN=SSBP2  
PE=1 SV=2

MYGKGKSNSSAVPSDSQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNITLGEPPGF  
LHSWWCVFWDLYCAAPERRETCEHSSEAKAFHDYSAAPSPVLGNIPPGDGMPPVPP  
GFFQPFMSPRYPGGPRPPLRIPNQLGGVPGSQPLPSGMDPTRQQGHPNMGGPMQRMTP  
PRGMVPLGPQNYGGAMRPPLNALGGPGMPGMNMGPGGGRPWPNPTNANSIPYSSASPGNY  
VGPPGGGGPPGTPIMPSPADSTNSGDNMYTLMNAVPPGPNRPNFPMGPGSDGPMGGLGGM  
ESHMNGSLGSGDMDSISKNSPNNMSLSNQPCTPRDDGEMGNFLNPFQSESYSPSMTMS  
V

>sp|Q9BWG4|SSBP4\_HUMAN Single-stranded DNA-binding protein 4 OS=Homo sapiens GN=SSBP4  
PE=1 SV=1

MYAKGGKGSAPVPSDSQAREKLALYVYEYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFL  
HSWWCVFWDLYCAAPDRREACEHSGEAKAFQDYSAAPSPVMGSMAPGDTMAAGSMAAG  
FFQGPFGSQPSHPNPAPMMGPHGQPFMSPRFPGGPRPTLRMPSPQPPAGLPGSQPLPGA  
MEPSPRAQGHPSMGGMQRVTPPRGMASVGPQSYGGGMRPPPNLAGPGLPAMNMGPGR  
GPWASPSGNSIPYSSSSPGSYTGPPGGGPPGTPIMPSPGDSTNSSENMYTIMNPIGQGA  
GRANFPLPGPPEGMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTPRDDG  
EMAAAGTFLHFPFSESYSPGMTMSV

>sp|O00267|SPT5H\_HUMAN Transcription elongation factor SPT5 OS=Homo sapiens GN=SPT5H  
PE=1 SV=1

MSDSEDSNFEEDSERSSDGEEAEVDEERRSAAGSEKEEEPEDEEEEEEEYDEEEEE  
EDDDRRPPKKPRHGGFILDADVDEYEDQWEDGAEDILEKEEIEASNIDNVVLEDRS  
GARRLQNLWRDQREEELGEYMKKYAKSSVGETVYGGSDLSDDITQQQLLPVKDPNLW  
TVKCKIGEERATAISLMRKFIAEQFTDTPLQIKSVVAPEHVKGYYEAYKQTHVKQATE  
GVGNLRLGYWNQMVPIKEMTDVLKVVKEVANLKPKSWVRLKRGYIKDDIAQVDYVEPSQ  
NTISLKMIPRIDYDRIKARMSLDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLI

FEGNRYSRKGFLFKSFAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKEREHNF  
QPGDNVEVCEGELINLQGKILSVDGNKITIMPKHEDLKDMLEFPAQELRKYFKMGDHVKV  
IAGRFEGDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETASGVDVGGQHEWGELV  
QLDPQTVGVIVRLERETFQVLNMYGKVTVRHQAVTRKKDNRFVAVALDSEQNNIHVKDIV  
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVG  
GFAPMSPRISSPMHPSAGGQGGFGSPGGSGGMSRGRGRRDNELIGQTVRISQGPYKGY  
IGVVKDATESTARVELHSTCQTISVDRQRLTTVGSRRPGGMTSTYGRTPMYGSQTPMYGS  
GSRTPMYGSQTPLQDGSRTPHYGSQTPLHDGSRTPAQSGAWDPNNPNTPSRAEEEEYAF  
DDEPTPSPQAYGGTPNPQTGYPDPSSPQVNPQYNPQTGTPAMYNTDQFSPYAAPSPQG  
SYQPSPSPQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPSPPVGYSPMTPGAPSP  
GGYNPHTPGSGIEQNSSDWVTTDIQVKVRDTYLDQVVGQGTGVI RSVTGGMCSVYLKDSE  
KVVISSEHLEPITPTKNNKVKVILGEDREATGVLLSIDGEDGIVRMDLDEQLKILNLRF  
LGKLLLEA

>sp|P11277|SPTB1\_HUMAN Spectrin beta chain, erythrocytic OS=Homo sapiens GN=SPTB PE=1  
SV=5

MTSATEFENVGNQPPYSRINARWDAPDDELNDNSSARLFERSRIKALADEREVVQKKT  
TKWVNSHLARVSCRITDLYKDLRDGRMLIKLLEVLSGEMLPKPTKGKMRHCLNVKAL  
QFLKEQRVHLENMGSHDIVDGNHRLVLGLIWTIILRFQIQDIVVQTQEGRETRSAKDALL  
LWCQMKTAGYPHVNTNFTSSWKDGLAFNALIHKHRPDLIDFDKLKDSNARHNLEHAFNV  
AERQLGIIPLLDPEDVFTENPDEKSIITYVFAFYHYFSKMKVLAVEGKRVGKVIDHAIET  
EKMIKEYSGLASDLLTWIEQITITVLSNRKFANSLTGVQQQLQAFSTYRTVEKPPKFQEK  
NLEVLLFTIQRMRANNQKVYTPHDGKLVSDINRAWESLEEAAYRRELALRNELIRQEK  
EQLARRFDRKAAMRETWLSNQRLVAQDNFGYDLAAVEAAKKKHEAIEETDAAYEERVRA  
LEDLAQELEKENYHDQKRITARKDNILRLWSYLQELLQSRRQRLETTLALQKLFQDMLHS  
IDWMDEIKAHLLSAEFGKHLLEVEDLLQKHKLMEDIAIQGDKVKAITAATLKFTGKGY  
QPCDPQVIQDRISHLEQCFEELSMAAGRKAQLEQSKRLWKFFWEMDEAESWIKKEQIY  
SSLDYGKDLTSVLILQRKHKA FEDELRLDAHLEQIFQEAHGMVARKQFGHPQIEARIKE  
VSAQWDQLKDAAFCCKNLQDAENFFQFQGDADDLKAWLQDAHRLLSGEDVGQDEGATRA  
LGKKHKDFLEELSRGVMHELEQQAQGFPEEFRDSPDVTHRLQALRELYQQVVAQADLR  
QQRLQEALDLYTVFGETDACELWMGEKEKWLAEEMPDTLEDLEVQHRFDILDQEMKTL  
MTQIDGVNLAANSLVESGHPRSREVKQYQDHLNTRWQAFQTLVSRREAVDSALRVHNYC  
VDCEETSKWITDKTKVVESTKDLGRDLAGIIATQRKLSGLERDVAIIQARVDALERESQQ  
LMDSHPEQKEDIGQRQKHLEELWQGLQQSLQGQEDLLGEVSQLQAFLQDLDDFQAWLSIT  
QKAVASEDMPESLPEAEQLLQQHAGIKDEIDGHQDSYQRVKESGEKVIQGQTDPEYLLLG  
QRLEGLDTGWNALGRMWESRSHTLAQCLGFQEFQKDAKQAEAILSNQEYTLAHLEPPDSL  
EAAEAGIRKFEDFLGSMENNRDQVLSVDSGNKLVAEGNLYSDKIKEKVQLIEDRHRKNN  
EKAQEASVLLRDNLQNLQNCQELTLWINDKLLTSQDVSYDEARNLHNKWLKHQAFVA  
ELASHEGWLENIDAEQQLMDEKPPQFTALVSQKLEALHRLWDELQATTKEKTQHLSAARS  
SDLRLQTHADLNKVISAMEDQLRSDDPGKDLTSVNRLAKLKRVEDQVNVKKEELGELFA  
QVPSMGEEGGDADLSIEKRFLDLLEPLGRRKKQLESSRAKLQISRDLEDETLWVEERLPL  
AQSAHYGTNLQTVQLFMKKNQTLQNEILGHTPRVEDVLQRGQQLVEAAEIDCQDLEERLG  
HLQSSWDRLREAAAGRLQRLRDANEAQQYYLDADEAEAWIGEQLYVISDEIPKDEEGAI  
VMLKRHLRQQRAVEDYGRNIKQLASRAQGLLSAGHPEGEQIIRLQGQVDKHYAGLKDVAE  
ERKRKLENMYHLFQLKRETDDEQWISEKELVASSPEMGQDFDHVTLLRDKFRDFARETG

AIGQERVDNNAFIERLIDAGHSEAATIAEWDGLNEMWADLLELIDTRMQLLAASYDLH  
RYFYTGAEILGLIDEKHRELPEDVGLDASTAESFHRVHTAFERELHLLGVQVQQFQDVAT  
RLQTAYAGEKAETAIQNEKEQVSAAWQALLDACAGRRTQLVDTADKFRFFSMARDLLSWME  
SIIRQIETQERPRDVSSVELLMKYHQGINAEIETRSKNFSACLELGESLLQRHQHASEEI  
REKLQQVMSRRKEMNEKWEARWERLRMLLEVQCFSRDASVAEAWLIAQEPYLASGDFGHT  
VDSVEKLIKRRHEAFEKSTASWAERFAALEKPTTLELKERQIAERPAEETGPQEEEGETAG  
EAPVSHHAATERTSPVSLWSRLSSSWESLQPEPSHPY

>sp|O15269|SPTC1\_HUMAN Serine palmitoyltransferase 1 OS=Homo sapiens GN=SPTLC1 PE=1 SV=1

MATATEQWVLVEMVQALYEAPAYHLILEGILILWIIIRLLFSKTYKLQERSDLTVKEKEEL  
IEEWQPEPLVPPVPKDHAPALNINIVSGPPSHKTVVNGKECINFASFNGLLDNPRVKAA  
ALASLKKYGVGTCGRPGFYGTFDVHLDLEDRLAKFMKTEEAIISYGFATIASAIPAYSK  
RGDIVFDRAACFAIQKGLQASRDIKLFKHNDMADLERLLKEQEIEDQKNPRKARVTRR  
FIVVEGLYMTGTICPLPELVKLKYKYKARIFLEESLSFGVLGEHGRGVTEHYGINIDDI  
DLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPLAAAAIEALNIMEENP  
GIFAVLKEKCGQIHKALQGISGLKVVGESLSPAFHLQLEESTGSREQDVRLQEIVDQCM  
NRSIALTQARYLEKEEKCLPPPSIRVVVTVEQTEEEELERAASTIKEVAQAVLL

>sp|O43609|SPY1\_HUMAN Protein sprouty homolog 1 OS=Homo sapiens GN=SPRY1 PE=1 SV=2

MDPQNQHGGSSSLVVIQQPSLDSRQLDYEREIQPTAILSLDQIKAIRGSNEYTEGPSVV  
KRPAPRTAPRQEKHERTHEIIPINVNNNYEHRHTSHLGHAVLPSNARGPILSRSTSTGSA  
ASSGSNSSASSEQGLGRSPPTRPVPGHRSEAIRTQPKQLIVDDLKGLKEDLTQHKFI  
CEQCGKCKGECTAPRTLPSCLACNRQCLCSAESMVEYGTCLVKGIFYHCSNDDEGDS  
YSDNPCSCSQSHCCSRYLCMGAMSLFLPCLLCYPPAKGCLKLCRRCYDWIHRPGCRCKNS  
NTVYCKLESCPSRGGKPS

>sp|Q9BXG8|SPZ1\_HUMAN Spermatogenic leucine zipper protein 1 OS=Homo sapiens GN=SPZ1 PE=1 SV=2

MASSAKSAEMPTISKTVNPTDPHQEYLDPRITIALFEIGSHSPSSWGSPLFLKNSSHQV  
TEQQTAAQKFNNLLKEIKDILKNMAGFEKITEAKELFEETNITEDVSAHKENIRGLDKIN  
EMLSTNLPVSLAPEKEDNEKKQEMILETNITEDVSAHKENIRGLDKINEMLSTNLPVSLA  
PEKEDNEKKQQMIMENQNSENTAQVFARDLVNRLEEKVNETQQSQEKAKNRLNVQEET  
MKIRNNMEQLLQEAHWSKQHTELSKLIKSYQKSQKDISETLGNGVGFGTQPNNEVSAK  
HELEEQVKKLSHDTYSLQLMAALLENECQILQQRVEILKELHHKQGTLEKPIQINYKQ  
DKKNQKPSEAKKVEMYKQNKQAMKGTFWKKDRSCRSLDVCLNKKACNTQFNIHVARKALR  
GKMRSASSLR

>sp|Q9HD15|SRA1\_HUMAN Steroid receptor RNA activator 1 OS=Homo sapiens GN=SRA1 PE=1 SV=1

MTRCPAGQAEVEMAELYVKGPKNGERGWNPPQFSYGLQTQAGGPRRSLTKRVAAPQDGS  
PRVPASETSPGPPPMGPPPPSSKAPRSPPVSGPASGVEPTSFPVESEAVMEDVLRPLEQ  
ALEDGRGHTRKQVCDDISRRLALLQEQWAGGKLSIPVKKRMALLVQELSSHRWDAADDIH  
RSLMVDHVTEVSQWMVGKRLIAEKRSLFSEEAANEKSAATAEKNHTIPGFQQAS

>sp|P36956|SRBP1\_HUMAN Sterol regulatory element-binding protein 1 OS=Homo sapiens GN=SREBF1 PE=1 SV=2

MDEPPFSEAALEQALGEPCLDAALLTDIEDMLQLINNQDSDFPGLFDPYAGSGAGGTD  
PASPDTSPPGSLSPPPATLSSSLEAFLSGPQAAPSPLSPPQPAPTPLKMYSPMPAFSPGP  
GIKEESVPLSILQTPTPQPLPGALLQSFAPAPPQFSSTPVLGYSPPPGGFSTGSPPGN  
TQQPLPGLPLASPPGVPPVSLHTQVQSVVPQQLLTVTAAPTAAPVTTTTSQIQQVPVLL

QPHFIKADSLLLTAMKTDGATVKAAGLSPLVSGTTVQTGPLPTLVSGGTILATVPLVDDA  
EKLPINRLAAGSKAPASASRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKS  
AVLRKAIDYIRFLQHSNQKLKQENLSLRTAVHKSLSKDLVSACSGGNTDVLMEGVKTE  
VEDTLTPPPSDAGSPFQSSPLSLGSRGSGSGSDSEPSPVFEDSKAKPEQRPSLHSR  
GMLDRSRLALCTLVFLCLSCNPLASLLGARGLPSPSDTTSVYHSPGRNVLGTESRDGPGW  
AQWLLPPVVWLLNGLLVLSLVLLFVYGEPTVTRPHSGPAVYFWRHRKQADLDLARGDFAQ  
AAQQLWLALRALGRPLTSHLDLACSLWNLRHLLQRLWVGRWLAGRAGGLQQDCALRV  
DASASARDAALVYHKLHQLHTMGKHTGGHLTATNLALSALNLAECAGDAVSVATLAEIYV  
AAALRVKTSRPRALHFLTRFFLSSARQACLAQSGSVPPAMQWLCHPVGHRFFVDGDWSVL  
STPWESLYSLAGNPVDPLAQVTQLFREHLLERALNCVTQPNPSPGSADGDKEFSDALGYL  
QLLNSCSDAAGAPAYSFSISSSMATTTGVDPAKWWASLTAVVIHWLRRDEEAERLCPL  
VEHLPRVLQESERPLPRAALHSFKAARALLGCAKESGPASLTICEKASGYLQDSLATTP  
ASSSIDKAVQLFLCDLLLVRTSLWRQQPPAPAPAAQGTSSRPQASALELRGFQRDLSS  
LRLAQSFPRPAMRRVFLHEATARLMAGASPTRTHQLLDRSLRRRAGPGGKGGAVAELEPR  
PTRREHAEALLASCYLPPGFLSAPGQRVGMLAEAARTLEKLGDRRLHDCQQLMRLGG  
GTTVTSS

>sp|Q14247|SRC8\_HUMAN Src substrate cortactin OS=Homo sapiens GN=CTTN PE=1 SV=2

MWKASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQRWGAKTVQSGSGHQEHINIHKLRE  
NVFQEHQTLKEKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVRG  
FGGKFGVQMDRVDQSAVGFEYQGKTEKHASKDYSSGFGGKYGVQADRVDSKSAVGFDYQG  
KTEKHESQRDYSKFGGKYGIDKDKVDSKSAVGFEYQGKTEKHESQKDYVKFGGKFGVQT  
DRQDKCALGWDHKEKLQLHESQKDYKTGFGGKFGVQSERQDSAAVGFDYKEKLAKHESQQ  
DYSKFGGKYGVQKDRMDKNASTFEDVTQVSSAYQKTPVPEAVTSKTSNIRANFENLAKE  
KEQEDRRKAEARAQRMAREQEERKLEEQARAKTQTPPVSPAPQTEERLPSSPV  
YEDAASFKAELSYRGPVSGTEPEPVYSMEAADYREASSQGLAYATEAVYESAEAPGHYP  
AEDSTYDEYENDLGITAVALYDYQAAGDDEISFDPDIIITNIEMIDGWWRGVCKGRYGL  
FPANYVELRQ

>sp|P23327|SRCH\_HUMAN Sarcoplasmic reticulum histidine-rich calcium-binding protein  
OS=Homo sapiens GN=HRC PE=1 SV=1

MGHHRPWLHASVLWAGVASLLLPAMTQQLRGDGLGFRNRNNTGVAGLSEEASAELRHH  
LHSPRDHPDENKDVSTENGHHFWSHPDREKEDEDVSKEYGHLLPGHRSQDHKVGDEGVSG  
EEVFAEHGGQARGHRGHGSEDTEDSAEHRHLLPSHRSHHQDEDEDEVVSEHHHHIILRH  
GHRGHDGEDDEEEEEEEEEEEASTYGHQAHRHRGHGSEEDVDGHHHHGPSHRH  
QGHEEDDDDDDDDDDDDDDDVSIEYRHQAHRHQGHGIEDEDVSDGHHHRDPSHRHRSH  
EEDNDDDDVSTYGHQAHRHQDHRKEEVEAVSGEHHHHVPDHRHQGHRDEEDEDVSTE  
RWHQGPQHVVHGLVDEEEEEEEITVQFGHYVASHQPRGHKSDEEDFQDEYKTEVPHHHHH  
RVPREDEEVSALGHQAPSHRQSHQDEETGHGQRGSIKEMSHHPPGHTVVKDRSHLRKD  
DSEEEKEEEDPGSHEEDESSEQGEKGTTHGSRDQDEEEDDEEGHGLSLNQEEEEEDK  
EEEEEEDEERREERAIEVGAPLSPDHSEEEEEEEGLEEDEPRFTIIPNPLDRREEAGGA  
SSEESGEDTGPQDAQEYGNYPQPSLGGYCSFCNRCTECESCHCDEENMGEHCDQCQHCQ  
FCYLCPLVCETVCAPGSYVDYFSSSLYQALADMLETPEP

>sp|A1L4H1|SRCRL\_HUMAN Soluble scavenger receptor cysteine-rich domain-containing protein  
SSC5D OS=Homo sapiens GN=SSC5D PE=1 SV=3

MRVLACLLAALVGIIQAVERLRLADGPHGCAGRLEVWHGGRWGTVCDDGWDLRDAVACRQ

LGCGGALAAPGGAFFGEGAGPVWLSELACRGNEGQLGLCHHRGWKAHICSHEEDAGVVCA  
GQRVANSRDDSTSPLDGAPWPGLLLELSPSTEEPLVTHAPRPAGNPQNASRKKSPRPKQA  
KSTRAPLLTTGAPRQERLRLVSGPHRCAGRLEVWHGGRWGTVCDDGWDLRDAAVACRELG  
CGGALAAPGGARFGPGAGPVWMDVCGGGGEQALRDCPRSPWGRSNCDSHSEDAGLVCTGP  
APRLRLADGPHGCAGRLEVWHGGRWGSVCDDAWDLRDAAVACRELGCGGALAAPGGAFFG  
EGSGPIILDDLRCRGNETALRFCPARPWGQHDCCHHREDAGAVCDGMPLGYVPPTAPTDSN  
NSTPREAASRPSTMTSQAPGTAGVSPPPASPTVLWEPGPEAGSPQLRLVAGPSKCSGRL  
EVWHDQRWGTVCDDSWMDRDSAVVCRELGCGGPQQPDPAAGRFGWGAGPIWLDDVGCVGT  
EASLSDCPAAPWGKHNCANEDVGTCTGPPGLDSISDPFSWSWIPLGRDRDAWLPGEL  
ATKPSASVTASVLEKTTTKAPGKMPKSTKKWVTKNKRPTTQPPVMPPTKHSRAQSPDDL  
TSQTTAALTTEASRRPTSEFTRRPTEAPQRWTSHTTATLTPQAPRERTTKTMAMLTQG  
PQEMTSESTIKSIPQASLEPSAEIPEGSPESPKDPAPSPSVSTTGESGLFRVRLADGPNR  
CAGRLEVWHAGRWGTVCDDNWDLRDATVACWELGCGKVRPRVGKTHYGP GTGPIWLDDMG  
CKGSEASLSDCPGAWGKHNCDEEDVGLTCTGYTDYDDYPPWTWDPTSREDLAKGTTA  
GVPGHTLPWRTRRRPGSSSPAIRRLPDTGSKDGYKLPWTWDTPSGRGLAEGTPTAGKLG  
TLGAGTTRSPGSPPTLRVHGDGSPRKWPERRPPRPAATRTAPPTSPGPSASPGPPGP  
ALTSOSSRELTPHSALTSEATSDAPDTPSPTPDPASRTNPDILITSPDFALSTPDSSVVP  
ALTPEPSPTPLPTLPKELTSDPSTPSEVTSLSPTSEQVPESDTPDLDTTPYSSTVSEYS  
RSPDPSPSPHPTTTPDPTMAPDPIITLNPVTPHFPTTPHPTTTPHPTTITHSTMIPDPT  
TTPQPFTTITHSTMIPDPTTTPQPFTTMQPTTTPHSTTPHPTTTPHPTTITHSTMIPDPT  
TTPQPFTTMQPTTTPHPTTTPHPTTTPHPTTTPHPTTTPHPTTTPHPTTTPHPTTTPDPT  
TTPHPTTPDPSSTPVITTVSLPTSLGTELSSTLAPT VKPSLHPQLTFTAPAPHTSTSQI  
PTLEPSPALESSPSRSSTATSMDFLSTEDFKPPRSQSPNLTPPHTPHSASDLTVSPDP  
LLSPTAHPLDHPPLDPLTLGPTPGQSPGPHGPCVAPTPPVRVMACEPPALVELVA AVR DV  
GGQLQRLTQVVEQERQERQALLGLTQLVEAARGLGQLGEAVKRLAEMAWTTSMPAPTTT  
TPEEEERPLRGDV

>sp|PODMP2|SRG2B\_HUMAN SLIT-ROBO Rho GTPase-activating protein 2B OS=Homo sapiens  
GN=SRGAP2B PE=3 SV=1

MTSPAKFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQDFFRKKAEIE  
MDYSRNLEKLAERFLAKTCSTKDQQFKDQNVLSPVNCWNLLLNQVKRESRDHTTSLDIY  
LNNIIPRFVQVSEDSGRFLFKSKEVGQQLQDDLMKVLNELYSVMKTYHMYNADSISAQSK  
LKEAEKQEEKIQGSKVQEDRQTPRSPDSTANVRIEEKHVRRSSVKKIEKMKEKRQAKYT  
ENKLKAIKARNEYLLALEATNASVFKYYIHDLSDLIDCCDLGYHASLNRALRTFLSAELN  
LEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGDMASQLCAQQP  
VQSELLQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDIVTVEFDVSDCFQYSNAMES  
VKSTVSETFMSKPSIAKRRANQQETEQFYFTVRECYGF

>sp|Q9UHB9|SRP68\_HUMAN Signal recognition particle subunit SRP68 OS=Homo sapiens GN=SRP68  
PE=1 SV=2

MAAEKQVPGGGGGGSGGGGSGGGGSGGGRGAGGEENKENERPSAGSKANKEFGDSL  
EILQIIKESQQQHGLRHGDFQRYRGYCSRRQRRLRKT LNFKMGNRHKFTGKKVTELLTD  
NRYLLLVLMDAERAWSYAMQLKQEANTEPRKRFHLLSRLRKAVKHAEELERLCESNRVDA  
KTKLEAQAYTAYLSGMLRFEHQEWKAAIEAFNKCKTIYEKLAFAFTEEQAVLYNQ RVEEI  
SPNIRYCAYNIGDQSAINELMQMRLRSGGTEGLLAEKLEALITQTRAKQAATMSEVWVRG  
RTVPVKIDKVRIFLLGLADNEAAIVQAESEETKERLFESMLSECRDAIQV VREELKPDQK

QRDYILEGEPGKVSNLQYLHSYLYIKLSTAIKRNNMAKGLQRALLQQQPEDDSKRSPR  
PQDLIRLYDIILQNLVELLQLPGLEEDKAFQKEIGLKTIVFKAYRCFFIAQSYVLVKKWS  
EALVLYDRVLKYANEVNSDAGAFKNSLKDLPVQELITQVRSEKCSLQAAAILDANDAHQ  
TETSSSQVKDNKPLVERFETFCCLDPSLVTKQANLVHFPPGFQPIPCPKPLFFDLALNHVAF  
PPLEDKLEQKTKSGLTGYIKGIFGFRS

>sp|Q8IYB3|SRRM1\_HUMAN Serine/arginine repetitive matrix protein 1 OS=Homo sapiens  
GN=SRRM1 PE=1 SV=2

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GFEDDVVIEFIFNQLEVKNPDSKMMQINLTGFLNGKNAREFMGELWPLLLSAQENIAGIP  
SAFLELKKEEIKQRQIEQEKLASMKKQDEDKDKRDKEEKESREKRERSRSPRRRKSRSRSP  
SPRRSSPVRRERKRSHSRSPRHRTKSRSSPAPEKKEKTPELPEPSVKVKEPSVQEATS  
TSDILKVPKPEPIPEPEKPSPEKNSKKEKEKEKTRPRSRSRSKSRSTRSRSPSHTRPRR  
RHRSRSRSYSPRRRSPRRRSPRRRTPPRRMPPPRHRRSRSPVRRRRRSSASLSGSSS  
SSSSSRSRSPPKPKPTSSPPKTRRLSPSASP RRHRPSPPATPPPKTRHSPTPQQS  
NRTRKSRVSVSPGRTSQKVTKHKGTEKRESPAPKPRKVELSESEEDKGGKMAAADSVQ  
QRRQYRRNQSSSDSGSSSSSEDERPKRSHVKNGEVGRRRRHSPSRASPSPRKRQKET  
SPRGRRRRSPSPPTRRRRSPSPAPPPRRRTPTPPRRRTSPPPRRRSPSPRRYSPP  
QRRYSPPPKRRRTASPPPKRRASPPPKRRVSHSPPPKQRSSPVTKRRSPSLSSKH  
RKGSSPSRSTREARSPQPNKRHSPSPRPAPQTSSSPPVRRGASSSPQRRQSPSPSTRP  
IRRVSRTEPEPKIKKAASPSQSVRRVSSSRVSGSPEPAAKKPPAPPSPVQSQSPSTNW  
SPAVPVKAKSPTSPSPPRNSDQEGGGKKKKKKDKKKKKDKKKKKKKKKKEKAVAAA  
AAAVTPAAIAAATTTLAQEEPVAAPKKESEAEADNLDDLEKHLREKALRSMRKAQV  
SPQS

>sp|Q9UQ35|SRRM2\_HUMAN Serine/arginine repetitive matrix protein 2 OS=Homo sapiens  
GN=SRRM2 PE=1 SV=2

MYNGIGLPTPRSGTNGYVQRNLSLVRGRRGERPDYKGEEELRRLEAALVKRPNPDILDH  
ERKRRVELRCLELEEMMEEQGYEEQQIQEKVATFRLMLLEKDVNPGGKEETPGQRPVTE  
THQLAELNEKKNERLRAAFGISDSYVDGSSFDPPRRAREAKQPAPEPPKPYSLVRESSSS  
RSPTPKQKKKKKKKDRGRSESSPRRERKKSSKKKKHRSESESKKKRHSPTPKSKRKS  
KDKKKRSRSTTPAPKSRAHRSTSADSASSSDTSRSRSRSAAKTHTTALAGRSPSPAS  
GRRGEDAPFSEPGTTSTQRPSPPETATKQPSSPYEDKDKDKKEKSATRPSPSPERSSTG  
PEPPAPTPLLAERHGGSPQPLATTPLSQEPVNPPSEASPTRDRSPPKSPEKLPQSSSES  
SPPSPQPTKVSRHASSSPESPKPAPAGSHREISSSPTSKNRSHGRAKRDKSHSHTPSRR  
MGRSRSPATAKRGRSRSTPTKRGHSRSPQWRRSRSAQRWGRSRSPQRRGRSRSPQRP  
GWSRSRNTQRRGRSRSAARRGRSHSRPATRGRSRSTPARRGRSRSTPARRRSRSTPT  
RRRSRSTPARRGRSRSTPARRRSRTRSPVRRRSRSPARRSGRSRSTPARRGRSR  
RTPARRGRSRSTPARRSGRSRSTPARRGRSRSTPRRGRSRSLVRRGRSHSRTPQR  
RGRSGSSSERKNKSRSTQRRSRNSSPEMKKSRISSRRSRSLSSPRSKAKSRLSLRRSL  
GSSPCPKQKSQTPRRRSRSGSQPKAKSRTPPRRSRSSSPPKQKSKTPSRQSHSSSP  
HPKVKSGTPPRQGSITSPQANEQSVTPQRRSCFESSPDPELKSRTPSRHSCSGSSPPRVK  
SSTPPRQSPSRSSSPQPKVKAII SPRQRSHSGSSSPSPSRVTSRTTPRRRSRVSPCSNVE  
SRLLPYSHSGSSSPDTKVKPETPPRQSHSGSISPYPKVKAQTPPGPSLSGSKSPCPQEK  
SKDSLVSQCPGSLSLCAGVKSTPPGESYFGVSSLQLKGQSQTSPDHRSDTSSPEVRQSH  
SESPSLQSKSQTPKGGRSRSSPVTELASRSPIRQDRGEFSASPMLKSGMSPEQSRFQS

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGA  
LNAVRS LVPDALERKPKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQA  
YGASIVYCEPSDESRENVAKRVTEETEGIMVHPNQEPAVIAGQGTIALEVLNQVPLVDAL



VVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLKGKLMPNLYPPETIADGV  
KSSIGLNTWPIIRDLVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVAAVLSQHFQT  
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

>sp|Q8WYL5|SSH1\_HUMAN Protein phosphatase Slingshot homolog 1 OS=Homo sapiens GN=SSH1  
PE=1 SV=2

MALVTLQRSPTPSAASSSASNSELEAGSEEDRKLNLSESEFFMVKGAAFLQQGSSPQG  
QRSLQHPHKHAGDLPQHLQVMINLLRCEDRIKLAVRLESADRVRYMVVYSSGRQDTE  
ENILLGVDFSSKESKCTIGMVLRLWSDTKIHLGDGGFSVSTAGRMHIFKPVSVQAMWS  
ALQVLHKACEVARRHNYFPGGVALIWATYYESCISSEQSCINEWNAMQDLESTRPDSPAL  
FVDKPTEGERTERLIKAKLRSIMMSQDLENTSKEIRNELEKQMNCNLKELKEFIDNEML  
LILGQMDKPSLIFDHLVYLGSEWNASNLEELQGSGVDYILNVTREIDNFFPGLFAYHNIRV  
YDEETDLLAHWNEAYHFINKAKRNHCKLVHCKMGVSRSASTVIAYAMKEFGWPLEKAY  
NYVKQKRSITRPNAGFMRQLSEYEGILDASKQRHNKLWRQQTDSSLQQPVDDPAGPGDFL  
PETPDGTPESQLPFLDDAAQPLGPPLPCCFRRLSDPLLPSPEDETGSLVHLEDPEREAL  
LEEAAPPAEVHRPARQPQQGSGLCEKDVKKKLEFGSPKGRSGSLQVEETEREEGLGAGR  
WGQLPTQLDQNLNSENLNNSKRSCPNGMEDDAIFGILNKVKPSYKSCADCMYPTASGA  
PEASRERCEDPNAPAICTQPAFLPHITSSPVAHLASRSRVPEKPASGPTEPPPPFLPPAGS  
RRADTSGPGAGAALEPPASLLEPSRETPKVLPKSLLLKNSHCDKNPPSTEVIKEESSPK  
KDMKPAKDLRLFSNESEKPTTNSYLMQHQESIQLQKAGLVRKHTKELERLKSVPADPA  
PPSRDGPASRLEASIPESQDPAALHELGLVMPSPQAGSDEKSEAAPASLEGGSLKSPPP  
FFYRLDHTSSFSKDFLTKICYTPTSSSMSSNLTRSSSDSIHVRGKPLVKQRTQEIET  
RLRLAGLTVSSPLKRSHSLAKLGSITFSTEDLSSEADPSTVADSQDTTLESSLFHEPQG  
TPRDPAAATSKPSGKPAPENLKSPSWMSKS

>sp|P30874|SSR2\_HUMAN Somatostatin receptor type 2 OS=Homo sapiens GN=SSTR2 PE=1 SV=1

MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYDLTNAVLTFIYFVVCIIIGLCG  
NTLVIYVILRYAKMKTITNIYILNLAIADELFMLGLPFLAMQVALVHWPFGKAICRVVMT  
VDGINQFTSIFCLTVMSIDRYLAVVHPIKSAKWRRPRTAKMITMAVWGVSLLVILPIMIY  
AGLRSNQWGRSSCTINWPGESGAWYTGFIITYFILGFLVPLTIICLCYLFIIKVKSSGI  
RVGSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSVSMAISPTPALKGMFDFVVVL  
TYANSCANPILYAFLSDNFKKSFGQNVLCVVKVSGTDDGERSDSKQDKSRLNETTETQRTL  
LNGDLQTSI

>sp|P32745|SSR3\_HUMAN Somatostatin receptor type 3 OS=Homo sapiens GN=SSTR3 PE=1 SV=1

MDMLHPSSVSTTSEPENASSAWPPDATLGNVSAGPSPAGLAVSGVLIPLVYLVVCVVGLL  
GNSLVIYVVLRTASPSVTNVYILNLALADELFMLGLPFLAAQNALSYWPFGLMCRVLM  
AVDGINQFTSIFCLTVMSVDYRLAVVHPTRSARWRTAPVARTVSAVWVASAVVLPVVV  
FSGVPRGMSTCHMQWPEAAAWRAGFIIYTAALGFFGPLLVICLCYLLIVVKVRSAGRRV  
WAPSCQRRRRSERVTRMVAVVALFVLCWMPFYVLNIVNVVCPLEEPAFFGLYFLVVA  
LPYANSCANPILYGFLSYRFKQGFRRVLLRPSRRVRSQEPTVGPPEKTEEEDEEEDEGEE  
SREGGKGKEMNGRVSQITQPGTSGQERPPSRVASKEQQLLPQEASTGEKSSTMRISYL

>sp|P51571|SSRD\_HUMAN Translocon-associated protein subunit delta OS=Homo sapiens GN=SSR4  
PE=1 SV=1

MAAMASLGALALLLSSLSRCSAEACLEPQITPSYYTTSDAVISTETVFIVEISLTCKNR  
VQNMALYADVGGKQFPVTRGQDVGRYQVSWSLDHKSAHAGTYEVRFDEESYSLRKAQR  
NNEDISIIPPLFTVSDHRGTWNGPWVSTEVLAAAIGLVIYYLAFAKSHIQA

>sp|094768|ST17B\_HUMAN Serine/threonine-protein kinase 17B OS=Homo sapiens GN=STK17B PE=1 SV=1

MSRRRFDRCRSISGLLTTPQIPIKMENFNNFYILTSKELGRGKFAVVRQCISKSTGQEYA  
AKFLKKRRRGQDCRAEILHEIAVLELAKSCPRVINLHEVYENTSEIILILEYAAGGEIFS  
LCLPELAEMVSENDVIRLIKQILEGVYYLHQNNIVHLDLKPQNILLSSYPLGDIKIVDF  
GMSRKIGHACELREIMGTPEYLAPEILNYDPITTATDMWNIGIIAYMLLTHTSPFVGEDN  
QETYLNISQVNVVDYSEETFSSVSQLATDFIQSLLVKNPEKRPTAEICLSHSLWQQWDFEN  
LFHPEETSSSSQTQDHSVRSSDEKTSKSSCNGTCGDREDKENIPEDSSMVSKRFRFDDSL  
PNPHELVSDLLC

>sp|Q06520|ST2A1\_HUMAN Bile salt sulfotransferase OS=Homo sapiens GN=SULT2A1 PE=1 SV=3

MSDDFLWFEGIAFPTMGFRSETLRKVRDEFVIRDEDVILITPKSGTNWLAELCLMHSK  
GDAKWIQSVPIWERSPWVESEIGYTALSETESPRLFSSHLPIQLFPKSFSSKAKVIYLM  
RNPRDVLVSGYFFWKNMKFIKKPKSWEEYFEWFCQGTVLVYGSWFDHIHGWMMPMREEKNFL  
LLSYEELKQDTGRTIEKICQFLGKTLEPEELNLILKNSSFQSMKENKMSNYSLLSVDYV  
DKAQLLRKGVSGDWKNHFTVAQAEDFDKLFQEKMADLPRELFPWE

>sp|Q9NY57|ST32B\_HUMAN Serine/threonine-protein kinase 32B OS=Homo sapiens GN=STK32B PE=2 SV=1

MGGNHSHKPPVFDENEEVNFDFHQLRAIGKGSFGKVCIVQKRDTKKMYAMKYMNKQKCI  
ERDEVNRNVFRELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFTE  
GTVKLYICELALALEYLQRYHIHRDIKPDNILLDEHGHVHITDFNIATVVKAERASSM  
AGTKPYMAPEVFQVYMDRGPYSPVDWWSLGITAYELLRGWRPYEIHSTPTIDEILNMF  
KVERVHYSSTWCKGMVALLRKLTKDPESRVSSLHDIQSVPYLADMNWDVFKKALMPGF  
VPNKGRLNCDPTFELEEMILESPLHKKKKRLAKNRSRDGTDKSCPLNGHLQHCLTVRE  
EFIIFNREKLRRQGGGSQLDTSRGGGQAQSKLQDGCNNLLTHTCTRGCS

>sp|POCL83|ST3L1\_HUMAN Putative STAG3-like protein 1 OS=Homo sapiens GN=STAG3L1 PE=5 SV=1

MIFSMRLKLPKVTCRDVLPETRAICIEEIGCWMQSYSTSFLTDSYLKYIGWTLHDKHREV  
RVKCVKALKGLYGNRDLTARLELFTGRFKDWMVSMIVDREYSVAVEAVRLLILILKLFYP  
ECEIRTMGGREQRQSPGAQRTFFQLLSFFVESKLHDHAAVLVDNLWDCAGTQLKDWEGL  
TSLLEKDQSTCHMEPGPGTFHLLG

>sp|Q8TBR4|ST3L4\_HUMAN Putative STAG3-like protein 4 OS=Homo sapiens GN=STAG3L4 PE=5 SV=1

MSGWIATSKTRMQDFWSLLTFSSDLVDVKDSGDYPLTAPGLSWKKFQGSFCEVGTIVCR  
CQYILLHDDFPMNLISLLTGFSDSQVCAFCSTSLAAMKLMTSLVRVALQLSLHEDINQ  
RQYEAERNKGPGQRAPERLESLEKHKEH

>sp|Q9ULZ2|STAP1\_HUMAN Signal-transducing adaptor protein 1 OS=Homo sapiens GN=STAP1 PE=1 SV=1

MMAKKPPKPAPRRIFQERLKITALPLYFEGFLLIKRSYREYEHYWTELRGTTLFFYTDK  
KSIIYVDKLDIVDLTCLTEQNSTEKNCAKFTLVLPKEEVQLKTENTESGEEWRGFILTVT  
ELSVPQNVSLLPQVIKLHEVLEREKKRRIETEQSTSVEKEKEPTEDYVDVLPMPACFY  
TVSRKEATEMLQKNPSLGNMILRPGSDSRNYSITIRQEIDIPRIKHYKVMVGQNYTIEL  
EKPVTLPNLFSDIVYFVKETRGNLRPFICSTDENTGQEPSMEGRSEKLKKNPHIA

>sp|Q14849|STAR3\_HUMAN StAR-related lipid transfer protein 3 OS=Homo sapiens GN=STARD3 PE=1 SV=2

MSKLPRELTRDLERSLPAVASLGSSLSHSQSLSSHLLPPPEKRRAISDVRRTFCLFVTFD  
LLFISLLWIIELNTNTGIRKNLEQEIIQYNFKTSFFDIFVLAFFRFSGLLLGYAVLRLRH

WWVIAVTTLVSSAFILVKVILSELLSKGAFGYLLPIVSFVLAWLETWFLDFKVLQPQAEAE  
ERWYLAQVAVARGPLLFSGALSEGQFYSPPEFAGSDNESDEEVAGKKSFSQAQEREYIR  
QGKEATAVVDQILAQEENWKFEKNNEYGDTVYTIIEVPFHGKTFILKTFLPCPAELVYQEV  
ILQPERMVLWNKTVTACQILQRVEDNTLISYDVSAGAAGGVVSPRDFVNVRRRIERRDRY  
LSSGIATSHSAKPPTHKYVRGENGGFIVLKSASNPRVCTFVWILNTDLKGRLPRYLIIH  
QSLAATMFEEFAFHLRQRISLGARA

>sp|Q8NBB2|STAS1\_HUMAN Putative uncharacterized protein ST20-AS1 OS=Homo sapiens GN=ST20-  
AS1 PE=2 SV=1

MPRPASESWSPIQSRIPAYKAVSHLRLPTANSPSGSNQPTNPNAQHPEGPQSREGATS  
PVLASLEPPTPTDLP SARARPRVPAESGPGWLHKARRPTRGILRDVLRHRGVPAQPRPAP  
GAHQLSSPSS

>sp|Q14765|STAT4\_HUMAN Signal transducer and activator of transcription 4 OS=Homo sapiens  
GN=STAT4 PE=1 SV=1

MSQWNQVQQLKIFLEQVDQFYDDNFPMEIRHLLAQWIENQDWEAASNNETMATILLQNL  
LIQLDEQLGRVSKEKNLLL IHNLRIRKVLQKGFHGNPMHVAVVISNCLREERRILAAAN  
MPVQGPLEKSLQSSSVSERQRNVEHKVAAIKNSVQMTEQDTKYLEDLQDEFDYRYKTIQT  
MDQSDKNSAMVNQEVLTLEMLNSLDFKRKEALSKMTQIIHETDLLMNTMLIEELQDWKR  
RQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRRQLEKLEEQSTKMTYEGDPIPMQRTHM  
LERVTFLIYNLFKNSFVVERQPCMPHTPQRPLVLKTLIQFTVKLRLLIKLPELNYQVKVK  
ASIDKNVSTLSNRRFVLGNTVKAMSIEESSNGSLSVEFRHLQPKEMKSSAGGKGNEGCH  
MVTEELHSITFETQICLYGLTIDLETSSLPVVMISNVSQLPNAWASIIWYNVSTNDSQNL  
VFFNPPPATLSQLLEVMSWQFSSYVGRGLNSDQLHMLAEKLTQSSYSDGHLTWAKFCK  
EHLPGKSFTFTWLEAILDLIKKHILPLWIDGYVMGFVSKEKERLLKDKMPGTFLLRFS  
ESHLGGITFTWVDHSESGEVRFHSEVPYKGRLSALPFADILRDYKVI MAENIPENPLKY  
LYPDIPKDAFGKHYSQPCVSRPTERGDKGYVPSVFIPISTIRSDSTEPHSPSDLLPM  
SPSVYAVLRENLSPTTIETAMKSPYSAE

>sp|Q15468|STIL\_HUMAN SCL-interrupting locus protein OS=Homo sapiens GN=STIL PE=1 SV=2

MEPIYPFARPMNTRFPSSRMVPFHFPPSKCALWNPTPTGDFIYLHLSYYRNPKLVVTEK  
TIRLAYRHAKQNKKNSSCFLLGSLTADEDEEGVTLTVDRFDPGREVPECLEITPTASLPG  
DFLIPCKVHTQELCSREMIHVSDDFSSALKALQCHICKDSLDCGKLLSLRVHITSRES  
LDSVEFDLHWAATLANNFKCTPVKPIPIIPTALARNLSSNLNISQVQGTQYKYGYLTMDE  
TRKLLLLLESDPKVYSPLPLVGIWLSGITHIYSPQVWACCLRYIFNSSVQERVFSESGNFI  
IVLYSMTHKEPEFYECFPCDGKIPDFRFQLLTSKETLHLFKNVEPPDKNPIRCELSAESQ  
NAETEFFSKASKNFSIKRSSQKLSSGKMPIHDHDSGVEDEDFSPRIPSPHPVSQKISKI  
QPSVPELSLVLDGNFIESNPLPTPLEMVNNENPPLINHLEHLKPLQPQLYDEKHSPEVEA  
GEPSLRGIPNQLNQDKPALLRHCKVRQPPAYKKGPNPHTRNSIKPSSHNGPSHDI FEKLQT  
VSAGNVQNEEYPIRPSTLNSRQSSLAPQSQPHDFVFSPHNSGRPMELQIPTPLPSYCST  
NVCRCQHHSHIQYSPLNSWQGANTVGSIQDVQSEALQKHSLFHPSGCPALYCNAFCSSS  
SPIALRPQGDMGSCSPHSNIEPSPVARPPSHMDLCNPQPCTVCMHTPKTESDNMGLSP  
DAYRFLTEQDRQLRLQAQIQRLLQAQLMPCSPKTTAVEDTVQAGRMELVSVEAQSSP  
GLHMRKGVSIIVSTGASLFWNAAGEDQEPDSQMKQDDTKISSEDMNFSVDINNEVTSPLG  
SASSLKAVDIPSFEEENIAVEEEFNQPLSVSNSSLVVRKEPDVPVFFPSGQLAESVSMCL  
QTGPTGGASNNSETSEEPKIEHVMQPLLHQPSDNQKIYQDLLGQVNHLLNSSSKETEQPS  
TKAVIISHECTRTQNVYHTKKKTHHSRLVDKDCVLNATLKQLRSLGVKIDSPTKVKKNAH

NVDHASVLACISPEAVISGLNCMSFANVGMSGLSPNGVDLSMEANAIALKYLNNENQLSQL  
SVTRSNQNNCDPFSLLHINTDRSTVGLSLISPNNMSFATKKYMKRYGLLQSSDNSEDEEE  
PPDNADSKSEYLLNQLRSIPEQLGGQKEPSKNDHEIINCSNCESVGTNADTPVLRNITN  
EVLQTKAKQQLTEKPAFLVKNLKPSPAVNLRGTGAFTQHPEKENEGDITIFPESLQPSE  
TLKQMNMSMNSVGTFLDVKRLRQLPKLF

>sp|Q13586|STIM1\_HUMAN Stromal interaction molecule 1 OS=Homo sapiens GN=STIM1 PE=1 SV=3  
MDVCVRLALWLLWGLLLHQGQSLSHSHSEKATGTSSGANSEESTAAEF CRIDKPLCHSED  
EKLSFEAVRNIIHKLMDDDANGDVDVEESDEFLREDLNYHDPTVKHSTFHGEDKLISVEDL  
WKAWKSSEVYNWTVDEVVQWLITYVELPQYEETFRKLQLSGHAMPRLAVTNTTMTGTVLK  
MTDRSHRQKLQLKALD TVLFGPPLLTRHNHLKDFMLVVSIVIGVGGCWFAYIQNRYSKEH  
MKKMMKDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKVHLEKKLRDEINLAKQEAQRL  
KELREGTENERSRQKYAEEELEQVREALRKAKEKESHSSWYAPEALQKWLQLTHEVEVQ  
YYNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGTFHVAHSSSLDDVDHKILTAKQALSEVT  
AALRERLHRWQQIEILCGFQIVNPNPGIHSVAALNIDPSWMGSTRPNPAHFIMTDDVDMD  
DEEIVSPLSMQSPSLQSSVRQRLTEPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQM  
SRAADEALNAMTSNGSHRLIEGVHPGSLVEKLDPSPALAKKALLALNHGLDKAHSMLELS  
PSAPPGGSPHLDDSRSHSPSPDPDTPSPVGDSRALQASRNTRIPHLAGKKA VA EEDNGS  
IGEETDSSPGRKKFPLKIFKKPLKK

>sp|Q9P246|STIM2\_HUMAN Stromal interaction molecule 2 OS=Homo sapiens GN=STIM2 PE=1 SV=2  
MLVLGLLVAGAADGCELVPRHLRGRRTGSAATAASSPAAAAGDSPALMTDPCMSLSPPC  
FTEEDRFSLEALQTIHKQMDDDKDG GIEVEESDEFIREDMKYKDATNKHSHLHREDKHIT  
IEDLWKRWKTSEVHNWLTLEDTLQWLIEFVELPQYEKNFRDNNVKGTTLPRIAVHEPSFMI  
SQLKISDRSHRQKLQLKALDVVLFGPLTRPPHNWMDKFILTVSIVIGVGGCWFAYTQNK  
SKEHVAKMMKDLES LQTAEQSLMDLQERLEKAQEENRNVAVEKQNLERKMMDEINYAKEE  
ACRLRELREGAECELSRRQYAEQELEQVRMALKKAEKEFELRSSWSVPDALQKWLQLTHE  
VEVQYYNIKRQNAEMQLAIKDEAEKIKKKRSTVFGTLHVAHSSSLDEV DHKILEAKKAL  
SELTTCRLRERLFRWQQIEKICGFQIAHNSGLPSLTSSLYSDHSWVMPRVSI PPYIAGG  
VDDLDEDTPIVSQFPGTMAKPPGSLARSSSLCRSRRSIVPSSPQPQRAQLAPHAPHPSH  
PRHPHPHQHTPHSLPSPDPDILSVSSCPALYRNEEEEEAIYFSAEKQWEVPDTASECDL  
NSSIGRKQSPPLSLEIYQTLSPRKISRDEVSLDSSRGDSPVTVDVSWGSPDCVGLTETK  
SMIFSPASKVYNGILEKSCSMNLSSGIPVPKPRHTSCSSAGNSKPVQEAPSVARISSI  
PHDLCHNGEKS KPSKIKSLFKKKSK

>sp|Q15831|STK11\_HUMAN Serine/threonine-protein kinase STK11 OS=Homo sapiens GN=STK11  
PE=1 SV=1  
MEVVDPPQLGMFTEGELMSVGMDTFIHRIDSTEVIYQPRRKRAKLIGKYLMDLLGEGSY  
GKVKEVLDSETLCRAVKILKKKKLRRIPNGEANVKKEIQLLRRLRHKNVIQLVDVLYNE  
EKQKMYMMEYCVCGMQEMLDSVPEKRFPVCQAHGYFCQLIDGLEYLHSQGIVHKDIKPG  
NLLLTGGLTKISDLGVAEALHPFAADDT CRTSQGSPAFQPPEIANGLDTFSGFKVDIWS  
AGVTLYNITTGLYPFEGDNIYKLFENIGKGSYAIPGDCGPPLSDLLKGMLEYEPAKRFSI  
RQIRQHSWFRKKHPAEAPVIPPSPDTKDRWSMTVVPYLEDLHGADEDEDLFDIEDDI  
IYTQDFTVPGQVPEEEASHNGQRRGLPKAVCMNGTEAAQLSTKSRAEGRAPNPARKACSA  
SSKIRRLSACKQQ

>sp|Q8TAV4|STML3\_HUMAN Stomatin-like protein 3 OS=Homo sapiens GN=STOML3 PE=2 SV=1  
MDSRVSSPEKQDKENFVGVNNKRLGVCGWILFSLSFLVITFPISIWMLKIIKEYERA

VVFRLGRIQADKAKGPGILVLPCIDVFVKVDLRTVTCNIPPQEILTRDSVTTQVDGVVY  
YRIYSAVSANVNDVHQATFLAQTTLRNVLGTQTLSQLAGREEIAHSIQTLDDATE  
LWGIRVARVEIKDVRIPVQLQRSMAAEAEATREARAKVLAEGEMNASKSLKSASMLAE  
SPIALQLRYLQTLSTVATEKNSTIVFPLPMNILEGIGVSYDNHKKLPNKA

>sp|Q9NZ72|STMN3\_HUMAN Stathmin-3 OS=Homo sapiens GN=STMN3 PE=1 SV=3

MASTISAYKEKMKELSVLSLICSCFYTQPHPNTVYQYGDMEVKQLDKRASGQSFEVILKS  
PSDLSPEPMLSSPPKKKDTSLLEELQKRLEAAEERRKTQEAQVLKQLAERREHEREVLHK  
ALEENNNFSRQAEELKNYKMELSKETREAHLAALRERLREKELHAAEVRNKEQREEMSG

>sp|Q9H668|STN1\_HUMAN CST complex subunit STN1 OS=Homo sapiens GN=OBFC1 PE=1 SV=2

MQPGSSRCEEETPSLLWGLDPVFLAFKLYIRDILDMKESRQVPGVFLYNGHPIKQVDVL  
GTVIGVRERDAFYSYGVDDSTGVINCICWKKLNTESVSAAPSAARELSLTSQKKLQETI  
EQKTKIEIGDTIRVRGSIRTYREEREIHATYYKVDDPVWNIQIARMLLEPTIYRKVYDQ  
PFHSSALEKEEALSNPGALDPLSLTSLSEKAKEFLMENRVQSFYQQELEMVESLLSLAN  
QPVIHSASSDQVNFKKDTTSKAIHSIFKNAIQLLQEKGLVFQKDDGFDNLYYVTREDKDL  
HRKIHRIIQDCQKPNHMEKGCHFLHILACARLSIRPGLSEAVLQQVLELLEDQSDIVST  
MEHYTAF

>sp|Q6ZVD7|STOX1\_HUMAN Storkhead-box protein 1 OS=Homo sapiens GN=STOX1 PE=1 SV=2

MARPVQLAPGSLALVLCRLAQKAAAGAAEPPGGRAVFAFRANARCFWNARLARAASRL  
AFQGWLRGVLLVRAPPACLQVLDAWRRRALRPPRGFRIRAVGDVFPVQMNPIQSQFV  
PLGEVLCACISDMNTAQIVVTQESLLERLMKHYPGIAIPSEDILYTTLTGLIKERKIYHT  
GEGYFIVTPQTYFITNTTTQENKRMLPSDESRLMPASMTYLVSMESCAESAQENAAPIH  
CQSCQCFRDMHTQDVQEAPVAAEVTRKSHRGLGESVSWVQNGAVSVSAEHHICESTKPLP  
YTRDKEKGKKFGFSLWRSLSRKEKPKTEHSSFSAQFPPEEWPVRDEDDLNIIPRDVEHE  
IIKRINPILTVDNLIKHTVLMQKYEEQKKYNSQGTSTDMLTIGHKYPSEKGVKKRQGLSA  
KPQGGHSRRDRHKARNQGSEFQPGSIRLEKHPKLPATQPIPRIKSPNEMVGQKPLGEIT  
TVLGSHLIYKKRISNPFQGLSHRGSTISKGHKIQKTSCLKPSQTGPKEKPFQKPRSLDSS  
RIFDGKAKEPYAEQPNCKMEAESIYINDPTVKPINDDFRGHLFSHPQQSMLQNDGKCCPF  
MESMLRYEVYGGENEVIPEVLRKSHSHFDKLGETKQTPHSLPSRGASFSDRTPSACRLVD  
NTIHQFQNLGLLDYPVGVNPLRQAARQDKDSEELLRKGFVQDAETTSLENEQLSNDQAL  
YQNEVEDDDGACSSLYLEEDDISENDDLRQMLPGHSQYSFTGGSQGNHLGKQKVIERSLT  
EYNSTMERVESQVLKRNECYKPTGLHATPGESQEPNLSAESCGLNSGAQFGFNYYYYPSV  
AKCVQASAPADERIFDYYSARKASFEAEVIQDTIGDTGKKPASWSQSPQNQEMRKHFQK  
FQLFNTSHMPVLAQDVQYEHSHLEGTENHSMAGDSGIDSPRTQSLGSNNSVILDGLKRRQ  
NFLQNVEGTSKSSQPLTSNLLPLTPVIN

>sp|Q9Y3F4|STRAP\_HUMAN Serine-threonine kinase receptor-associated protein OS=Homo sapiens GN=STRAP PE=1 SV=1

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGKPMRLRQDGTGDWIGTFLGHKG  
AVWGATLNKDATKAATAADFTAKVWDAVSGDELMTLAHKHIVKTVDFTDQSNYLLTGGQ  
DKLLRIYDLNKPEAPEKEISGHTSGIKKALWCSEDKQILSADDKTVRLWDHATMTEVKSL  
NFMNSVSSMEYIPEGEILVITYGRSIAFHSAVSLDPIKSFEAPATINSASLHPEKEFLVA  
GGEDFKLYKYDYNSEEELESYKGFHFGPIHCVRFPSPDGELYASGSEDGTLRLWQTVVGKTY  
GLWKCVLPEEDSGELAKPKIGFPETTEEELEEIASENSDCIFPSAPDVK

>sp|Q9NRL3|STRN4\_HUMAN Striatin-4 OS=Homo sapiens GN=STRN4 PE=1 SV=2

MMEERAAAATAAASSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGGSPGPTAGP

EPLSLPGILHFIQHEWARFEAEKARWEAERAELQAQVAFLLQGERKGQENLKTDLVRRIKM  
LEYALKQERAKYHKLKFGTDLNQGEKKADVSEQVSNPVSSTLENSPLVWKEGRQLLRQ  
YLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPAGLSGGESLLVKQI  
EEQIKRNAAGKDGERLGGSVLGQIPFLQNCEDSDDEDELDSVQHKKQVRVKLPSKALV  
PEMEDEDEEDSDAINEFDLGSGEDGEGAPDPRRCTVDGSPHELESRRVKLQGILADL  
RDVDGLPPKVTGPPPGTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDS  
KDAFKKTWNPKFTLRSHYDGIRSLAFHHSQSALLTASEDGTLLKLNQKAVTAKKNAALD  
VEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDLSDMPYDGYDPSVLSHVL  
EGHGDVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLCTFPTASEHGVPTSVAFTS  
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDRQ  
IRFLDNRTGKPVHSMVAHLDAVTCCLAVDPNGAFLMSGSHDCSLRLWSLDNKTCVQEITAH  
RKKHEEAIHAVACHPSKALIASAGADALAKVFFV

>sp|Q5VSL9|STRP1\_HUMAN Striatin-interacting protein 1 OS=Homo sapiens GN=STRIP1 PE=1 SV=1

MEPAVGGPGPLIVNNKQPQPPPPPPAAAQPPPGAPRAAAGLLPGGKAREFNRRKRDSE  
GYSESPDLFEFYADTKWAAELSELYSYTEGPEFLMNRKCFEEDFRIHVTDKKWTDLTN  
QHRTHAMRLLDGLEVTAREKRLKVARAILYVAQGTFGECSSAEVQSWMYNIFLLLEV  
TFNALVELLNMEIDNSAACSSAVRKPAISLADSTDLRVLLNIMYLIVETVHQECEGDKAE  
WRTMRQTFRAELGSPLYNNEPFAIMLFGMVTKFCSGHAPHFPMKKVLLLLWKTIVLCTLGG  
FEELQSMKAEKRSILGLPPLPEDIKVIKIRNMRAASPPASDLIEQQQKGRREHKALIK  
QDNLDAFNERDPYKADDSREEEEEENDDNSLEGETFPLERDEVMPPLQHPQTDRLTCPK  
GLPWAPKVREKDIEMFLESSRSKFIGYTLGSDTNTVVGLPRPIHESIKTLKQHKYTSIAE  
VQAQMEEEYLRSPLSGGEEVEQVPAETLYQGLPSLPQYMIALLKILLAAPTSKAKTD  
SINILADVLPPEMPTTVLQSMKLGVDVNRHKEVIVKAISAVLLLLLKHFKLNHVYQFEYM  
AQHLVFANCIPLILKFFNQNIMSITAKNSISVLDYPHCVVHELPELTAESEAGDSNQF  
CWRNLFSCINLLRILNKLTKWKHSRTMMLVVFKSAPILKRALKVKQAMMQLYVLKLLKVQ  
TKYLGRQWRKSNMKTMSAIYQKVRHRLNDDWAYGNDLDARPWDFQAEELALRANIERFNA  
RRYDRAHSNPDLFPVDNCLQSVLGQRVDLPEDFQMNYDLWLEREVFSKPISEWELLQ

>sp|Q12768|STRUM\_HUMAN WASH complex subunit strumpellin OS=Homo sapiens GN=KIAA0196 PE=1 SV=1

MLDFLAENNLGQAILRIVSCGNAIIAELLRLSEFIPAVFRLKDRADQQKYGDIIFDFS  
FKGPPELWESKLDAPKELQDLDEEFRENNIEIVTRFYLAQSVHXYIVDLNRYLDDLNEGV  
YIQQTLETVLLNEDGKQLLCEALYLYGVMLLVLDQKIEGEVRERMLVSYRYSAARSSAD  
SNMDDICKLLRSTGYSSQPGAKRPSNYPESYFQRPINESFISMVIGRLRSDDIYNQVSA  
YPLPEHRSTALANQAAMLYVILYFEPSSILHTHQAKMREIVDKYFPDWNVISIYMGITVNL  
VDAWEPYKAAKTALNNTLDLSNVREQASRYATVSERVAHQVQFLKEGYLREEMVLDNIP  
KLLNCLRDCNVAIRWMLHTADSACDPNNKRLRQIKDQILTDSRYNPRILFQLLLDTAQF  
EFILKEMFKQMLSEKQTKWEHYKKEGSERMTELADVFSGVKPLTRVEKNENLQAWFREIS  
KQILSLNYDDSTAAGRKTQVLIQALEEVQEFHQLESNLQVCQFLADTRKFLHQMIRTINI  
KEEVLITMQIVGDLFAWQLIDSFTSIMQESIRVNPSMVKLRATFLKLASALDPLLRRI  
NQANSPDLLSVSQYYSYGELVSYVRKVLQIIPESMFTSLLKIKLQTHDIEVPTRLDKDK  
LRDYAQLGPRYEVAKLTHAISIFTEGILMMKTTLVGIIKVDPKQLLEDGIRKELVKRVAF  
ALHRGLIFNPRAKPELMPKELGATMDGFHRSFEYIQDYVNIYGLKIWQEEVSRIINY  
NVEQECNNFLRTKIQDWQSMYQSTHPIPKFTPVDESVTFIGRLCREILRITDPKMTCHI  
DQLNTWYDMKTHQEVTSSRLFSEIQTTLGTGFLNGLDRLLCFMIVKELQNFLSMFQKIIL

RDRTVQDTLKTLMNAVSPKSIIVANSNKIYFSAIAKTQKIWTAYLEAIMKVGQMQLRQQ  
IANELNYSCRFDKHLAAALENLNKALLADIEAHYQDPSLPYPKEDNTLLYEITAYLEAA  
GIHNPLNKIYITTKRLPYFPIVNFLLIAQLPKLQYNKNGMVCRKPTDPVDWPPLVLGL  
LTLLKQFHSRYTEQFLALIGQFICSTVEQCTSQKIPEIPADVVGALLFLEDYVRYTKLPR  
RVAAEHVPNFIFDEFRTVL

>sp|Q9P2W9|STX18\_HUMAN Syntaxin-18 OS=Homo sapiens GN=STX18 PE=1 SV=1

MAVDITLLFRASVKTVKTRNKALGVAVGGVDGSRDELFRRSRPRKGDFFSSRAREVISHI  
GKLRFLLLEHRKDYINAYSHTMSEYGRMTDTERDQIDQDAQIFMRTCSEAIQQLRTEAHK  
EIHSQQVKEHRTAVLDFIEDYLKRVCKLYSEQRAIRVKRVVDKKRLSKLEPEPNTKTRES  
TSSEKVSQSPSKDSEENPATEERPEKILAETQPELGTWGDGKGEDELSPEEIQMFQENQ  
RLIGEMNSLFDEVRQIEGRVVEISRLQEIFTEKVLQQEAEIDSIHQLVVGATENIKEGNE  
DIREAIKNNAGFRVWILFFLVMCSFSLLFLDWYDS

>sp|P14410|SUIS\_HUMAN Sucrase-isomaltase, intestinal OS=Homo sapiens GN=SI PE=1 SV=6

MARKKFSGLEISLIVLFVITIIAIALIVLATKTPAVDEISDSTSTPATRVTNPSDS  
GKCPNVLNDPVNVRINCIPEQFPTEGICARGCCWRPWNSLIPWCFVDNHGYNVQDMT  
TTSIGVEAKLNRIPSPTLFGNDINSVLFTTQNTPNRFRFKITDPNNRRYEVPHQYVKEF  
TGPTVSDTLYDVKVAQNPFISIQVIRKSNGKTLFDTSIGPLVYSDQYLQISTRLPSDYIYG  
IGEQQVHKRFRHDLWKTWPIFTRDQLPGDNNNNLYGHQTFMCIEDTSGKSFGVFLMNSN  
AMEIFIQPTPIVITYRVTGGILDYFILLGDTPEQVVQQYQQLVGLPAMPAYWNLGFQLSRW  
NYKSLDVVKEVRRNREAGIPFDQTQVTDIDYMEDKKDFTYDQVAFNGLPQFVQDLHDHGQ  
KYVILDPAISIGRRANGTTYATYERGNTQHVWINESDGSTPIIGEVWPGLTVPYDFTNP  
NCIDWWANECSIFHQEVQYDGLWIDMNEVSSFIQGSTKGCNVNKLNYPPFTPDILDKLMY  
SKTICMDAVQNWGKQYDVHSLYGYSMATEQAVQKVFPNKRSEILTRSTFAGSGRHAHAH  
WLGDN TASWEQMEWSITGMLEFSLFGIPLVGADICGFVAETTEELCRRWMLGAFYPPFSR  
NHNSDGYEHQDPAFFGQNSLLVKSSRQYLTRYTLLPFLYTLFYKAHVGETVARPVLHE  
FYEDTNSWIEDTEFLWGPALLITPVLKQGADTVSAYIPDAIWYDYESGAKRPWRKQRVDM  
YLPADKIGLHLRGGYIIPIQEPDVTTASRKNPLGLIVALGENNTAKGDDFFWDDGETKDT  
IQNGNYILYTFVSNNLTLDIVCTHSSYQEGTTLAFQTVKILGLTDSVTEVRVAENNQPMN  
AHSNFTYDASNQVLLIADLKLNLGRNFSVQWNQIFSENERFNCYPDADLATEQKCTQRGC  
VWRTGSSLSKAPECYFPRQDNSYSVNSARYSSMGITADLQLNTANARIKLPSDPISTLRV  
EVKYHKNDMLQFKIYDPQKKRYEVPVPLNIPTPISTYEDRLYDVEIKENPFGIQIRRRS  
SGRVIWDSWLPGFANDQFIQISTRLPSEYIYGFGVEHTAFKRDLNWTWGMFTRDQPP  
GYKLNSYGFHPYMALEEENAHGVFLNSNAMDVTFQPTPALTYRTVGGILDFYMFLLGP  
TPEVATKQYHEVIGHPVMPAYWALGFQLCRYGYANTSEVRELYDAMVAANIPYDVQYTDI  
DYMERQLDFTIGEAFQDLPPQFVDKIRGEGMRYIILDPAISGNETKTYPAFERGQNDVF  
VKWPNTNDICWAKVWPDLPNITIDKLTLEDAVNASRAHVAFPDFRTSTAEWWAREIVD  
FYNEKMKFDGLWIDMNEPSSFNVTGTTNQCNRNDELNYPPYFPELTKRTDGLHFRTICMEA  
EQILSDGTSVLHYDVHNLGWSQMKPTHDALQKTTGKRGIIVISRSTYPTSGRWGGHWLGD  
NYARWNNMDKSIIGMMEFSLFGMSYTGADICGFNNSEYHLCTRWMQLGAFYPYSRNHNI  
ANTRRQDPASWNETFAEMSRNINIRYTLLPYFYTQMHEIHANGGTVIRPLLHEFFDEKP  
TWDIFKQFLWGPAPMVPVLEPYVQTVNAYVNPARNWFDYHTGKDIGVRGQFQTFNASYDT  
INLHVRGGHILPCQEPANQTFYSRQKHMKLIVAADDNQMAQGSFLWDDGESIDTYERDLY  
LSVQFNLNQTTLTSTILKRGYINKSETRLGSLHVWGKGTTPVNAVTLTYNGNKNSLPFNE  
DTTNMILRIDLTTHNVTLEETIEINWS

>sp|Q8IWU5|SULF2\_HUMAN Extracellular sulfatase Sulf-2 OS=Homo sapiens GN=SULF2 PE=1 SV=1  
MGPPSLVLCLLSATVFSLLGGSSAFLSHRLKGRFQRDRRNIRPNIIILVLTDDQDVELGS  
MQVMNKTRRIMEQGGAHFVTTMCCPSRSSILTGKYVHNHTYNNENCSSPSWQA  
QHESRTFAVYLNSTGYRTAFFGKYLNEYNGSYVPPGWKEWVGLLKNSRFYNYTLCRNGVK  
EKHGSDYSKDYLTDLITNDSVSFFRTSKKMPHRPVLVISHAAPHGPEDSAPQYSRLFP  
NASQHITPSYNYAPNPDKHWMRYTGPMKPIHMEFTNMLQRKRLQTLMSVDDSMETIYNM  
LVETGELDNTYIVYTADHGYPHIGQFLVKGKSMPEYFDIRVPFYVRGPNVEAGCLNPHIV  
LNIDLAPTILDIAGLDIPADMKGKSLKLLDTERPVNRFHLKKKMRVWRDSFLVERGKLL  
HKRDNQKVDAAQENFLPKYQVRKDLQRAEYQTACEQLGQKWQCVEDATGKLKHKCKGP  
MRLGGSRALSNLVPKYYGQSEACTCDSDYKLSLAGRRKKLFKKKYKASYVRSRSIRSV  
AIEVDGRVYHVLGDAAQPRNLTKRHWPAGPEDQDDKDGDFSGTGGLPDYSAANPIKVT  
HRCYILENDTVQCDLDLYKSLQAWKDHKLHIDHEIETLQNKIKNLREVRGHLKKRPEEC  
DCHKISYHTQHKGRCLKHRGSSLHPFRKGLQEKDKVWLLREQKRKKKLKLLKRLQNNDC  
SMPGLTCFTHDNQHWQTAPFWTLGPFCACTSANNTYWCMTINETHNLFCEFATGFLE  
YFDLNTDPYQLMNAVNTLDRDVLNQLHVQLMELRSCKGYKQCNPRTRNMDLGLKDGGSYE  
QYRQFQRRKWPEMKRPSSKSLGQLWEGWEG

>sp|P49589|SYCC\_HUMAN Cysteine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=CARS PE=1  
SV=3  
MADSSGQGGKRRVQPPQWSPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGPTVY  
DASHMGHARSYISFDILRRVLKDYFKFDVFYCMNITDIDDKIIKRARQNLFEQYREKRP  
EAAQLLEDVQAALKPFSVKLNETDPPDKKQMLERIQHAVQLATEPLEKAVQSRLTGEEVN  
SCVEVLLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEQDFHRDMEALNVLPPDVLTR  
VSEYVPEIVNFVQKIVDNGYGYVSNNGSVYFDTAKFASSEKHSYGLVPEAVGDQKALQEG  
EGDLSISADRLSEKRSNDFALWKASKPGEPSWPCPWGKGRPGWHIECSAMAGTLLGASM  
DIHGGGFDLRFPHHDNELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNFITIKDA  
LKKHSARQLRLAFLMHSWKDLDYSSNTMESALQYEKFLNEFFLNKIDILRAPVDITGQF  
EKWGEAAELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQCNLMAARKAVRKRPN  
QALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSEATVMPYLQVLSEFREGVRK  
IAREQKVPETILQSDALRDNILPELGVRFEDHEGLPTVVKLVDRNTLLKEREKRRVEEE  
KRKKKEEAARRKQEQAALAKMKIPPSEMFLSETDKYSKFDENGLPTHMEGKELSKGQ  
AKKLKLLFEAQEKLYKEYLQMAQNGSFQ

>sp|Q6PIF2|SYCE2\_HUMAN Synaptonemal complex central element protein 2 OS=Homo sapiens  
GN=SYCE2 PE=2 SV=2  
MERQGVDPVPHVKCKDQEPQPLGESKEHPRWEENCEEEAGGPPASASCQLTVLEGKSGLYF  
SSLDSSIDILQKRAQELIENINKSRQKDHAMTNFRNSLTKVSDLTEKLEERIYQIYND  
HNKIIQEKLQFTQKMAKISHLETQKQVCHSVETVYKDLCLQPEQSLRLRWGPDHSRGK  
SPPRPGNSQPPDVFVSSVAETTSQATASEVQTNRDGEC

>sp|A1L190|SYCE3\_HUMAN Synaptonemal complex central element protein 3 OS=Homo sapiens  
GN=SYCE3 PE=1 SV=1  
MDDADPEERNYDNMLKMLSDLNKDLEKLLLEMEKISVQATWMAYDMVVMRTNPTLAESMR  
RLEDAFVNCKEEMEKNWQELLHETKQRL

>sp|Q9UQF0|SYCY1\_HUMAN Syncytin-1 OS=Homo sapiens GN=ERVW-1 PE=1 SV=1  
MALPYHIFLFTVLLPSFTLTAPPPCRCMTSSSPYQEFLLWRMQRPGNIDAPSYRSLSKGTP  
TFTAHTHMPRNCYHSATLCMHANTHYWTGKMINPSCPGGLGVTVCWTYFTQTGMSDGGGV



QDQAREKHVKEVISQLTRVHGTSSPYKGLDLSKLHETLRTHTRLVSLFNTTLTGLHEVSA  
QNPTNCWICLPLNFRPYVSSIPVPEQWNNFSTEINTTSVLVGPLVSNLEITHTSNLTVCVKF  
SNTTYTTNSQCIRWVTPPTQIVCLPSGIFVCGTSAYRCLNGSSESMCFLSFLVPPMTIY  
TEQDLYSYVISKPRNKRVPILPFVIGAGVLGALGTGIGGITSTQFYKLSQELNGDMER  
VADSLVTLQDQLNSLAAVVLQNRALDLLTAERGGTCLFLGEECCYYVQSGIVTEKVKE  
IRDRIQRRAEELRNTGPWGLLSQWMPWILPFLGPLAAIILLLLFGPCIFNLLVNFVSSRI  
EAVKLQMEPKMQSKTKIYRRPLDRPASPRSDVNDIKGTPPEEISAAQPLLRPNSAGSS

>sp|Q5VT97|SYDE2\_HUMAN Rho GTPase-activating protein SYDE2 OS=Homo sapiens GN=SYDE2 PE=1  
SV=2

MHDLPPDSGARRGGRGLADHSFPAGARAPGQPPSRGAAYRRACPRDGERGGGRPRQQVS  
PPRSPQREPRGGQLRTPMRPSCSRSLRVLGAKPPPFQRWPSDSWIRCGAHRDWDEPP  
PRGGRMDGWSGDRARAAAPTGLQPPGCKDHGSSGSPFRDPAGSSVIRSGKGDRQEGPSF  
LRPPAVTVKKLQKWMYKGRLLSLGMKGRARGTAPKVTGTQAASPNVGALKVRENRLVSV  
PDQRITLTDLFENAYGSSMKGRELEELKDNIEFRGHKPLNSITVSKKRNWLYQSTLRPLN  
LEEENKKCQDRSHLSISPVSLPKHLSQSFLKSSKEYCTYVVCNATNSSLSKNCALDFNE  
ENDADDEGEIWYNPIPEDDDLGISSALSFGEADSAVLKLPVNLMLSGSDLMKAERHTE  
DSLCSSEHAGDIQTTSRNGMNP IHPAHSTEFVQYKQKLGHKTQEGIMVEDSPMLKSPFA  
GSGILAATNSTELGIMESSPNPSPVKKGSSINWSLPDKIKSPRTVRKLSMKMKKLPEFS  
RKLSVKGTNLNINSPDNTPSLSKYNCREVHHTDILPSGNTTTAAKRNVISRYHLDTSVSS  
QQSYQKKNSMSSKYSCKGGYLSGDSPELTTKASKHGSSENKFGKGKEIISNSCSKNEIDI  
DAFRHYSFSDQPKCSQYISGLMSVHFYGAEDLKPPRIDSKDVFCAIQVDSVNKARTALLT  
CRTTFDMDHTFNIEIENAQHLKLVVFSWEPTPRKNRVCCGTVVLP TLFRTVTKTHQLAV  
KLEPRGLIYVKVTLMEQWENSLHGLDINQEP IIFGVDIQKVVEKENIGLMVPLLIQKCI  
EIEKRGCQVVGLYRLCGSAVKKELREAFERDSKAVGLCENQYPDINVITGVLDYLREL  
PSPLITKQLYEAVLDAMAKSPLKMSSNGCENDPGDSKYTVDLLDCLPEIEKATLKMLLDH  
LKLVASHEVNKMTQNLAFCFPGVLLSQRQEPSTHNNRVFTDSEELASALDFKKHIEVL  
HYLLQLWPVQRLTVKKSTDNLFPEQKSSNLRLRQKKERPHMLNLSGTDSSGVLPRQNRL  
DSPLSNRYAGDWSSCGENYFLNTKENLNDVDYDDVPSEDRKIGENYSKMDGPEVMIEQPI  
PMSKECTFQTYLTMQTVESTVDRKNNLKDQLQESIDTLIGNLERELNKNKLNMSF

>sp|Q6PI48|SYDM\_HUMAN Aspartate--tRNA ligase, mitochondrial OS=Homo sapiens GN=DARS2 PE=1  
SV=1

MYFPSWLSQLYRGLSRPIRRTTQPIWGSLYRSLLQSSQRRIPFSSFVVRTNTCGELRSS  
HLGQEVTLCGWIQYRRQNTFLVLRDFGLVQVIIPQDESAASVKKILCEAPVESVQVSG  
TVISRAGQENPKMPTGEIEIKVKTAE LLNACKKLPEIKNFVKKTEALRLQYRYDLRS  
FQM QYNLRLRSQVMKMR EYLCNLHG FVDIETPTLFKRTPGGAKEFLVPSREPGKFYSLP  
QSPQQFKQLLMVGGLDRYFQVARC YRDEGSRPDRQPEFTQIDIEMSFVDQTGIQSLIEGL  
LQYSWPNDKDPVVVPFTMTFAEVLATYGTDKPDTRFGMKIIDISDVFRNTEIGFLQDAL  
SKPHGTVKAICIEGAKYLKRKDIESIRNFAADHFNQEILPVFLNANRNWNSPVANFIME  
SQRLELIRLMETQEEDVLLTAG EHNKACSLGKLRLECADLLETGRVVL RDPTLFSFLW  
VVDFPLFLPK EENPRELES AHHPTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGS  
IRIHNAELQRYILATLLKEDVKMLSHLLQALDYGAPPHGGIALGLDRLICLVTGSPSIRD  
VIAFPKSFGRHDLMSNTPDSPPEELKPYHIRVSKPTDSKAERAH

>sp|P07814|SYEP\_HUMAN Bifunctional glutamate/proline--tRNA ligase OS=Homo sapiens GN=EPRS  
PE=1 SV=5

MATLSLTVNSGDPPLGALLAVEHVKDDVSISVEEGKENILHVSENVIFTDVNSILRYLAR  
VATTAGLYGSNLMEHTEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRITYLVGNSLSLA  
DLCVWATLKGNAAWQEQLKQKKAPVHVKRWFGFLEAQQAFQSVGTKWDVSTTKARVAPEK  
KQDVGKFVELPGAEMGKVTVRFPPEASGYLHIGHAKAALLNQHYQVNFKGKLMRFDDTN  
PEKEKEDFEKVILEDVAMLHIKPDQFTYTSDFETIMKYAEKLIQEGKAYVDDTPAEQMK  
AEREQRIDSKHRKNPIEKNLQMWEEEMKKSQFGQSCCLRAKIDMSSNNGCMRDPTLYRCK  
IQPHPRTGKNYNVPTYDFACPIVDSIEGVTHALRTTEYHDRDEQFYWII EALGIRKPYI  
WEYSRLNLNNTVLSKRKL TWFVNEGLVDGWDDPRFPTVRGVLRRGMTVEGLKQFIAAQS  
SRSVVMWWDKIWAFNKKVIDPVAPRYVALLKKEVIPVNVPEAQEEMKEVAKHPKNPEVG  
LKPVWYSPKVFIEGADAETFSEGEMVTFINWGNLITKIHKNADGKIISLDAKLNLENKD  
YKKTTKVTWLAETHALPIPVICVTYEHLITKPVLGKDEDFKQYVKNKSKHEELMLGDPC  
LKDLKKGDIIQLQRRGFFICDQPYEPVSPYSCKEAPCVLIYIPDGHTEKEMPTSGSKEKTK  
VEATKNETSAPFKERPTPSLNNNCTTSEDSLVLNRYAVQGDVVRELKAKKAPKEDVDAA  
VKQLLSLKAQYKEKTGQYKPGNPPAEIGQNISSNSSASILESKSLYDEVAQAQGEVVRKL  
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AKVLFDKVASQGEVVRKLKTEKAPKDQVDIAVQELLQLKAQYKSLIGVEYKPV SATGAED  
KDKKKKEKENKSEKQNKPKQNDGQKRDPSKNQGGGLSSSGAGEGQPKKQTRLGLEAKK  
EENLADWYSQVITKSEMIYHDISGCYILRPWAYAIWEAIKDFDAEIKKLGVENCYFPM  
FVSQSALEKEKTHVADFAPEVAWVTRSGKTELAEP I AIRPTSETVMYPAYAKWVQSHRDL  
PIKLNQWCNVVRWEFKHPQPFRLTREFLWQEGHSAFATMEEAAEEVLQILDLYAQVYEEL  
LAIPVVKGRKTEKEKFAAGDYTTTIEAFISASGRAIQGGTSHHLGQNF SKMFEIVFEDPK  
IPGEKQFAYQNSWGLTTRTIGVMTMVHGDNMGLVLPVRVACVQVVIIPCGITNALSEEDK  
EALIAKNDYRRRLSVNIRVRADLRDNYSPGWKFNHWELKGVP I RLEVGP RDMKSCQFV  
AVRRDTGEKLTVAENEAETKLQAILEDIQVTLFTRASEDLKTHMVVANTMEDFQKILDSG  
KIVQIPFCGEIDCEDWIKKTTARDQDLEPGAPSMGAKSLCIPFKPLCELQPGAKCVCCKN  
PAKYITLFGRSY

>sp|Q9UHE8|STEAP1\_HUMAN Metalloreductase STEAP1 OS=Homo sapiens GN=STEAP1 PE=2 SV=1  
MESRKDITNQEELWKMKPRRNLEEDYLHKDTGETSMLKRPVLLHLHQT AHADFD CPSE  
LQHTQELFPQWHLPIKIAAIIASLTFLYTLREVIHPLATSHQQYFYKIPILVINKVLPM  
VSITLLALVYLPGVIAAIVQLHNGTKYKKFPHWLDKWMLTRKQFGLLSFFF AVLHAIYSL  
SYPMRRSYRYKLLNWAYQQVQNKEDAWIEHDVWRMEIYVSLGIVGLAILALLAVTSIPS  
VDSL TWREFHYIQSKLGIVSLLGTIHALIFAWNKWIDIKQFVWYTPPTFMIAVFLPIV  
VLIFKSILFLPCLRKKILKIRHGWEDVT KINKTEICS QL

>sp|Q86TL2|STIMA\_HUMAN Store-operated calcium entry regulator STIMATE OS=Homo sapiens  
GN=TMEM110 PE=1 SV=1  
MQGPAGNASRGLPGPPSTVASGAGRCESGALMHSFGIFLQGLLG VVAFSTLMLKRFREP  
KHERRPWRIWFLDTSKQAIGMLFIHFANVYLADLTEEDPCSLYLINFLLDATVGMLLIYV  
GVRASVSVLEWQQWESLRFGEYGDPLQCGAWVGQCALYIVIMIFEKSVFIVLLILQWKK  
VALLNPIENPDLKLAIVMLIVPFFVNALMFVVVDNFLMRKGKTKAKLEERGANQDSRNGS  
KVRYRRAASHEESESEILISADDEMEESDVEEDLRRLTPLKPVKKKKHRFGLPV

>sp|O94804|STK10\_HUMAN Serine/threonine-protein kinase 10 OS=Homo sapiens GN=STK10 PE=1  
SV=1  
MAFANFRILRLSTFEKRKSREYEHVRRDLDPNEVWEIVGELGDGAFGKVYKAKNKETGA  
LAAAKVIETKSEEELEDYIVEIEILATCDHPYIVKLLGAYYHDGKLWIMIEFCPGGAVDA

IMLELDRGLTEPQIQVVCQMLEALNFLHSKRIIHRDLKAGNVLMTLEGDIRLADFGVSA  
KNLKTQLKRDSFIGTPYWMapevVMCETMKDTPYDYKADIWSLGITLIEMAQIEPPHEL  
NPMRVLLKIAKSDPPTLLTPSKWSVEFRDFLKIALDKNPETRPSAAQLLEHPFVSSITSN  
KALRELVAEAKAEVMEEIEDGRDEGEEDAVDAASTLENHTQNSSEVSPPSLNADKPLEE  
SPSTPLAPSQSQDSVNEPCSQPSGDRSLQTTSPPVVAPGNENGLAVPVPLRKS RVPVMDA  
RIQVAQEKQVAEQGGDLSPAANRSQKASQSRPNSSALETLGGEKLANGSLEPPAQAAPGP  
SKRSDSCSSLCTSESMDYGTNLSTDLSLNKEMGSLSIKDPKLYKKT LRTRKFVVDGVEV  
SITTSKIISEDEKKDEEMRFLRRQELRELRLQKEEHRNQTQLSNKHELQLEQMHRFEQ  
EINAKKKFFDTELENLERQQKQVEKMEQDHAVRRREEARRIRLEQDRDYTRFQEQLKLM  
KKEVKNEVEKLPRQQRKESMKQKMEEHTQKKQLDRDFVAKQKEDLELAMKRLT TDNRRE  
ICDKERECLMKKQELLRDREAAALWEMEEHQLQERHQLVKQQLKDQYFLQRHELLRKHEKE  
REQMQRYNQRMIEQLKVRQQEKARLPKIQRSEGKTRMAMYKKS LHINGGSAAEQREKI  
KQFSQQEEKRQKSERLQQQKQHENQMRDMLAQCESNMSELQQLQNEKCHLLVEHETQKLK  
ALDESHNQLKEWRDKLRPRKKALEEDLNQKKREQEMFFKLSEEAECNPSTPSKAAKFF  
PYSSADAS

>sp|Q9UEW8|STK39\_HUMAN STE20/SPS1-related proline-alanine-rich protein kinase OS=Homo sapiens GN=STK39 PE=1 SV=3

MAEPSGSPVHVQLPQQAAPVTAAPAAAAAPAAATAAPAPAAPAPAPAPAAQAVGWPICR  
DAYELQEVIGSGATAVVQAALCKPRQERVAIKRINLEKQTSMDLLKEIQAMSQC SHPN  
VVTYTSFVVKDELWLVMKLLSGGSMLDI IKYIVNRGEHKNVLEEAIATILKEVLEGL  
DYLHRNGQIHRDLKAGNILLGEDGSVQIADFGVSAFLATGGDVTRNKVRKTFVGT PCWMA  
PEVMEQVRGYDFKADMWSFGITAIELATGAAPYHKYPPMKVLM LTLQNDPPTLETGVEDK  
EMMKYKGSFRKLLSLCLQKDP SKRPTAAELLKCKFFQKAKNREYLIEKLLTRTPDIAQR  
AKKVRVPVPGSSGHLHKTEDGDWEWSDDDEKSEEGKAAFSQEKSRRVKEENPEI AVSAS  
TIPEQIQSLSVHDSQGPPNANEDYREASSCAVNLVLR LNRSRKELNDIRFEFTPGRDTAD  
GVSQELFSAGLVDGHDVVIVAANLQKIVDDPKALKTLTFKLASGCDGSEIPDEVKLIGFA  
QLSVS

>sp|Q93045|STMN2\_HUMAN Stathmin-2 OS=Homo sapiens GN=STMN2 PE=1 SV=3

MAKTAMAYKEKMKELSMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKP  
PSPISEAPRTLASPKKKDLSLEEIQKKLEAAEERRKSQEAQVLKQLAEKREHEREVLQKA  
LEENNNFSKMAEEKLILKMEQIKENREANLAAI IERLQEKERHAAEVR RNKELQVELSG

>sp|Q8N7X2|STPG3\_HUMAN Protein STPG3 OS=Homo sapiens GN=STPG3 PE=2 SV=1

MMNSDQKAVKFLANFYINGGKHWHGHLRQTQPEPTQPKASVLLLGPEPGMAWDETQPPK  
MKEIPVGLRLQTGT PQESLPTYTQTLRELLLEQRPLITADLEVPSPTRYQVPSPSVRESS  
PHPHYSIGCKHQGREGGRRRAWQTLWFQSESPFTQKADFDQE QKWPSAHYQLLSRPAFP  
AFSFRGCHSASKTPEGHTHLGLPGARGLGLRVQPQSLLQASLQAPGKRCPGPNTYNILPG  
SRLQSPRSPAFSMSRSPAFTSWLSTWLP AFSGSPNPWPSRLPRGGLQLTLPFGAWRGHP  
GCTQTQAPRHRPLLHALEPAGHNLLGPATEWNHGLPRGFPRPPLGLGAPAWPSDPLGTPM  
HPSGWPTLLWAVDKAGPAWIPHLPI SPLH

>sp|P56962|STX17\_HUMAN Syntaxin-17 OS=Homo sapiens GN=STX17 PE=1 SV=2

MSEDEEKVKLRRLEPAIQKFIKIVIPTDLERLRKHQINIEKYQRCRIWDKLHEEHINAGR  
TVQQLRSNIREIEKLCLKVRKDDLVLKRMIDPVKEEASAATAEFLQLHLESVEELKKQF  
NDEETLLQPPLTRMTVGGAFHTTEAEASSQSLTQIYALPEIPQDQNAAESWETLEADLI  
ELSQLVTDFSLLVNSQQEKIDS IADHVNSAAVNVEEGTKNLGKA AKYKLAALPVAGALIG

GMVGGPIGLLAGFKVAGIAAALGGGVLGFTGGKLIQRKKQKMMKLTSSCPDLPSQTDKK  
CS

>sp|Q6ZWJ1|STXB4\_HUMAN Syntaxin-binding protein 4 OS=Homo sapiens GN=STXBP4 PE=1 SV=2  
MNKNTSTVVSPSLEKDPAFQMITIAKETGLGLKVLGGINRNEGPLYIQEIIPGGDCYK  
DGRLKPGDQLSVNKEISMIGVSFEEAKSIITGAKLRLESWEIAFIRQKSDNIQPENLSC  
TSLIEASGEYGPQASTLSLFSSPPEILIPKTSSTPKTNNDILSSCEIKTGYNKTVPIT  
SENSTVGLSNTDVASAWTENYGLQEKISLNPSVRFKA EKLEMALNYLGIQPTKEQH QALR  
QQVQADSKGTVSFGDFVQVARNLFCQLDEVNVAHEISNILDSQLLPCDSSEADEMERL  
KCERDDALKEVNTLKEKLLESDKQRKQLTEELQNVKQEA KAVVEETRALRSRIHLAEAAQ  
RQAHGMEMDYEEVIRLLEAKITELKAQLADYSDQNKESVQDLKKRIMVLCQLRKSEMAR  
KTFEASTEKLHLHFVEAIQEVFSDNSTPLSNLSERRAVLASQTSLTPLGRNGRSIPATLAL  
ESKELVKSVRALLDMDCLPYGWEEAYTADGIKYFINHVTQTTSWIHPVMSVLNLSRSEEN  
EEDCSRELPNQKS

>sp|Q5T5C0|STXB5\_HUMAN Syntaxin-binding protein 5 OS=Homo sapiens GN=STXBP5 PE=1 SV=1  
MRKFNIRKVLDTAGSSSSASQQQQQHPPGNREPEIQETLQSEHFQLCKTVRHGFPYQP  
SALAFDPVQKILAVGTQTGALRLFGRPGVECYCQHDSGAAVIQLQLINEGALVSALADD  
TLHLWNLQRKPAIHLHLKFCRERVTFCHLPFQSKWLYVGTERGNIHIVNVESFTLSGYV  
IMWNKAIELSSKSHPGPVVHISDNPMDEGKLLIGFESGTVVLWDLKSKKADYRYTYDEAI  
HSVAWHHEGKQFICSHSDGTLTIWNVRSPAKPVQTIIPHGKQLKDGGKPEPCKPILKVEF  
KTTRSGETPFIILSGLSYDTVGRRPCLTMHGKSTAVLEMDYSIVDFLTLCETPYPNDFQ  
EPYAVVVLLEKDLVLIDLAQNGYPIFENPYPLSIHESPTCEYFADCPVDLIPALYSVG  
ARQKRQGYSKKEWPINGGNWGLGAQSYPEIIITGHADGSVKFWDASAITLQVLYKLKTSK  
VFEKSRNKDDRPNTDIVDEDPYAIQIISWCPESRMLCIAGVSAHVIIYRFSKQEVITEVI  
PMLEVRLLYEINDVETPEGEQPPPLPTPVGGSNPQPIPPQSHPTSSSSSDGLRDNVPCL  
KVKN SPLKQSPGYQTELVIQLVWVGGEPPQQITSLAVNSSYGLVVFNGCNGIAMVDYLQK  
AVLLNLGTIELYGSNDPYRREPRSPRKSQPSGAGLCDISEGTVVPEDRCKSPTSGSSSP  
HNSDDEQKMNNFIEKVTKSRKFSKMOVANDIAKMSRKLSPDLKPDLDVKDNSFSRSRS  
SSVTSIDKESREAI SALHFCETFRKTDSSPCLWVGTTLTGTVLVIALNLPPGGEQRL  
QPVI VSPSGTILRLKGAILRMAFLDTTGCLIPPAYEPWREHNVPEEKDEKEKLKRRPVS  
VSPSSSQEISENQYAVICSEKQAKVISLPTQNCAYKQNTETSFVLRGDIVALSNSICLA  
CFCANGHIMTFSPLSLRPLLDVYYLPLTNMRIARTFCFTNNGQALYLVSPTEIQRLTYSQ  
ETCENLQEMLGELFTPVETPEAPNRGFFKGLFGGAQSLDREELFGESSGKASRLAQH  
IPGPGGIEGVKAASGVVGELARARLALDERGQKLGDL EERTAAMLSSAESFSKHAHEIM  
LKYKDKKQYQF

>sp|Q8WUJ0|STYX\_HUMAN Serine/threonine/tyrosine-interacting protein OS=Homo sapiens  
GN=STYX PE=1 SV=1  
MEDVKLEFPSPQCKEDAEWYTPMRREMQEILPGLFLGPYSSAMKSKLPVLQKHGITHI  
ICIRQNI EANFIKPNFQQLFRYLVDIADNPVENIIRFFPMTKEFIDGSLQMGGKVLVHG  
NAGISRSAAFVIAYIMETFGMKYRDAFAYVQERRFCINPNAGFVHQLQEYEAIYLAKLTI  
QMMSPLQIERSLSVHSGTTGSLKRTHEEEDDFGTMQVATAQNG

>sp|Q9UH99|SUN2\_HUMAN SUN domain-containing protein 2 OS=Homo sapiens GN=SUN2 PE=1 SV=3  
MSRRSQRLTRYSGDDDGSSSSGGSSVAGSQSTLFKDSPLRTLKRKSSNMKRLSPAPQLG  
PSSDAHTSYYESLVHESWFPPRSSLEELHGDANWGEDLRVRRRRGTGGSESSRASGLVG  
RKATEDFLGSSSGYSEDDYVGYSDVDQSSSSRLSAVSRAGSLLWMVATSPGRLFRLL

YWWAGTTWYRLTTAASLLDVFLTRRFSSLTFLWFLPLLLLTCLTYGAWYFYPYGLQT  
FHPALVSWAAKDSRRPDEGWEARDSSPHFQAEQVRMSRVHSLERRLEALAAEFSSNWQK  
EAMRLERLELRQGAPGGGGGGLSHEDTLALLEGLVSRREAALKEDFRRETAARIQEELS  
ALRAEHQQDSEDLFKKIVRASQSEARIQQLKSEWQSMQSFQESSVKELRRLEDQLAG  
LQQELAAALALKQSSVAEEVGLLPQQIQAVRDDVESQFPWISQFLARGGGGRVGLLQREE  
MQAQLRELESKILTHVAEMQGKSAREAAASLSLTLQKEGVIGVTEEQVHHIVKQALQRY  
EDRIGLADYALESGGASVISTRSETYETKTALLSLFGIPLWYHSQSPRVILQPDVHPGN  
CWAFFQGPQGFAVRLSARIRPTAVTLEHVPKALSPNSTISSAPKDFAIFGFDEDLQQEGT  
LLGKFTYDQDGEPIQTFHFQAPTMTYQVVELRILTNWGHPEYTCIYRFRVHGEPAH

>sp|Q15526|SURF1\_HUMAN Surfeit locus protein 1 OS=Homo sapiens GN=SURF1 PE=1 SV=1

MAAVALQLGLRAAGLGRAPASAAWRSVLVSPRPGVAWRPSRCGSSAAEASATKAEDDS  
FLQWVLLLIPVTAFLGTWQVQRRKWKLNLAIELESRLAEPVPLPADPMELKNLEYRPV  
KVRGCFDHSKELYMMPRTMVDPVREAREGGLISSSTQSGAYVVTPFHCTDLGVTILVNRG  
FVPRKKVNPETRQKGQIEGEVDLIGMVRLTETRQPFVPENNPERNHWHYRDLEAMARITG  
AEPIFIDANFQSTVPGGPIGGQTRVTLRNEHLQYIVTWYGLSAATSYLWFKFLRGTPGV

>sp|Q8NHG7|SVIP\_HUMAN Small VCP/p97-interacting protein OS=Homo sapiens GN=SVIP PE=1 SV=1

MGLCFPCPGESAPPTDLEEKRAKLAEEAERRQKEAASRGILDVQSVQEKRRKKKEKIEKQ  
IATSGPPPEGGLRWTVS

>sp|P49588|SYAC\_HUMAN Alanine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=AARS PE=1 SV=2

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPS  
HPMAKLSRAANTQKCI RAGGKHNDLDDVGKDVYHHTFFEMLGWSWFGDYFKELACKMALE  
LLTQEFGIPIERLYVTYFGDEAAGLEADLECKQIWQNLGLDDTKILPGNMKDNFWEMGD  
TGPCGCPCEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNREADGILKPLPKSIDT  
GMGLERLVSVLQNKMSNYDSDLFVPYFEAIQKGTGARPYTGKVGAEADADGIDMAYRVLAD  
HARTITVALADGGRPDNTGRGYVLRILRRAVRYAHEKLNASRGFFATLVVVVQSLGDA  
FPELKKDPDMVKDIINEEEVQFLKTL SRGRRILDRKIQSLGDSKTI PGDTAWLLYD TYGF  
PVDLTGLIAEEKGLVDMDFEEERKLAQLKSQKGAGGEDLIMLDIYAIEELRARGLEV  
TDDSPKYNHYLDSSGSYVFENTVATVMALRREKMFVEEVSTGQECGVLDKTCFYAEQGG  
QIYDEGYLVKVDSDSEDKTEFTVKNAQVRGGYVLHIGTIYGD LKVG DQVWLFIDEPRRRP  
IMSNTATHILNFALRSVLGEADQKGS L VAPDRLRFDF TAKGAMSTQQIKKAE EIANEMI  
EAAKAVYTQDCPLAAAKAIQGLRAVFDETYPDVVRVVSIGVPVSELLDDPSGPAGSLTSV  
EFCGGTHLRNSSHAGAFVIVTEEAIAKGIRRI VAVTGAEAQKALRKAESLKKCLSVMEAK  
VKAQTAPNKDVQREIADLGEALATAVIPWQKDELRETLKSLKKVMDDLD RASKADVQKR  
VLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPTSAMLFTVDNEAGKIT  
CLCQVPQNAANRGLKASEWVQVSGLMDGKGGGKDVSAQATGKNVGCLQEALQLATSFAQ  
LRLGDVKN

>sp|Q9NX95|SYBU\_HUMAN Syntabulin OS=Homo sapiens GN=SYBU PE=1 SV=2

MGPLRESKKEHRVQHHDKEISRRIPLRLRPHMPQQQHKVSPASESPFSEESREFNPS  
SSGRSARTVSSNSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKKCTIGM  
VGEYSIQSSRYKKESKSLVKPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSSRN RGP  
HGRSNGASSHKPGSSPSSPREKDLSMLCRNQLSPVNIHPSYAPSSPSSNSGSYKGSDC  
SPIMRRSGRYMSCGENHGV RPPNEQYL TPLQQKEVTVRHLKTKLKESE RRLHERESEIV  
ELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADKDKGIQKYFV  
DINIQNKKLESLLQSMEMAHSGLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQV

TGEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEG  
SVVVERAVQTDVVPYSPAISELIQSVLQKLQDPCPSSLASPDSEPDSESPESLSALV  
VDLTPRNPNSAILLSPVETPYANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVR  
QYWSSSFLVDLLAVAAPVVPTVLWAFSTQRGGTDPVYNIGALLRGCCVVALHSLRRTAFR  
IKT

>sp|A8MT33|SYC1L\_HUMAN Synaptonemal complex central element protein 1-like OS=Homo sapiens GN=SYCE1L PE=2 SV=3

MAGKLPKLNVEAPEATEEAEGQAKSLKTEDLLAMVIKLQKEGSLEPQIEDLISRINDLQQ  
AKKKSSEELRETHSLWEALHRELDLNGEKVHLEEVLGKKQEALRILQMHCQEKESEAQR  
LDVRGQLEDLMGQHKDLWEFHMLEQRLAREIRALERSKEQLLSERRLVRAKLREVERRLH  
SPPEVEGAMAVNDGLKAELEIFGEQVRSAPVEVGAGEGEAGPELPRARDEEDPEPPVAAPD  
AL

>sp|Q15431|SYCP1\_HUMAN Synaptonemal complex protein 1 OS=Homo sapiens GN=SYCP1 PE=1 SV=2

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NIDSDPALQKVNFLPVLEQVGNDSCHYQEGLKDSLENSEGLSRVSKLYKEAEKIKKWK  
VSTAEELRQKESKLQENRKIEAQKRAIQELQFGNEKVSLEEGIQENKDLIKENNATR  
HLCNLLKETCARSAEKTKKYEYEREETRQVYMDLNNNIEKMITAFEELRVQAENSRLMH  
FKLKEDYEKIQHLEQYKKEINDKEKQVSLLLIQITEKENMKDLTFLLEESRDKNQLE  
EKTKLQSENKQSIEQHHLTKELEDIKVSLQRSVSTQKALEEDLQIATKTICQLTEEKE  
TQMEESNKARAAHSFVVTEFETTVCSLEELLRTEQQRLEKNEDQLKILTMELQKKSSELE  
EMTKLTNNKEVELEELKKVLGEKETLLYENKQFEKIAEELKGTEQELIGLLQAREKEVHD  
LEIQLTAITTSQYYSKEVKDLKTELENEKLKNTLTSNKLLENKELTQETSDMTLE  
LKNQQEDINNNKKQEERMLKQIENLQETETQLRNELEYVREELKQKRDEVKCKLDKSEEN  
CNNLRKQVENKNKYIEELQQENKALKKKGTAESKQLNVYEIKVNKLELELESQKQKGEI  
TDTYQKEIEDKKISEENLLEEVEKAKVIADEAVKLQKEIDKRCQHKIAEMVALMEKHKHQ  
YDKIEERDSELGLYKSKEQEQQSLRASLEIELSNLKAELLSVKKQLEIEREEKEKLR  
AKENTATLKEKKDKKTQTFLLETPEIYWKLDKAVPSQTVSRNFTSVDHGISKDKRDYLW  
TSAKNTLSTPLPKAYTVKTPKPKLQQRENLNPIEESKKKRKMAFEFDINSDSSETTDL  
LSMVSEETLKTLYRNNNPASHLCVKTPKKAPSSLTTPGSTLKFGAIRKMREDRWAVIA  
KMDRKKKLKEAEKLFV

>sp|Q6ZW31|SYDE1\_HUMAN Rho GTPase-activating protein SYDE1 OS=Homo sapiens GN=SYDE1 PE=1 SV=1

MAEPLLRKTF SRLRGREKLPRKKS DAKERGHPAQRPEPSPPEPEPQAPEGSQAGAEGPSS  
PEASRSPARGAYLQSLPSSRRWVLGGAKPAEDTSLGPGVPGTGEPAGEIWYNPIPEEDP  
RPPAPEPPGPQPGSAESEGLAPQGAAPASPTKASRTKSPGPARRLSIKMKKLPELRRRL  
SLRGPRAGRERERAAPAGSVISRYHLDSSVGGPGPAAGPGGTRSPRAGYLSGDSPERPA  
GPPSPTSFRPYEVGPAARAPPAALWGRLSLHLYGLGGLRPAPGATPRDLCCLLQVDGEAR  
ARTGPLRGGPDFLRLDHTFHLELEAARLLRALVLAWDPGVRHRPCAQGTVLLPTVFRGC  
QAQQLAVRLEPQGLLYAKLTLSEQQEAPATAEPRVFGLPLLLVERERPPGQVPLIIQKC  
VGQIERRGLRVVGLYRLCGSAAVKKELRDAFERDSAAVCLSEDLYPDINVTGILKDYLR  
ELPTPLITQPLYKVLEAMARDPPNRPPTTEGTRGLLSCLPDVERATLTLLLDHLRLVS  
SFHAYNRMTQNLAVCFGPVLLPARQAPTRPRARSSGPGLASAVDFKHHIEVLHYLLQSW  
PDPRLPRQSPDVAPYLRPKRQPPLHLPLADPEVVTRPRGRGGPESPPSNRYAGDWSVCGR  
DFLPCGRDFLSGPDYDHVTGSDSEDEDEEVGEPRVTGDFEDDFDAPFNPHLNLKDFDALI

LDLERELSKQINVCL

>sp|Q5VX71|SUSD4\_HUMAN Sushi domain-containing protein 4 OS=Homo sapiens GN=SUSD4 PE=2 SV=1

MYHGMNPSNGDGFLEQQQQQQQPQSPQRLLAVILWFQLALCFGPAQLTGGFDDLQVCADP  
GIPENGFRTPSGGVFFEGSVARFHCQDGFKLKGATKRLCLKHFNGTLGWIPSDNSICVQE  
DCRIPQIEDAEIHNKTYRHGEKLIITCHEGFKIRYPDLHNMVSLCRDDGTWNNLPICQGC  
LRPLASSNGYVNISELQTSFPVGTVISYRCFPGFKLDGSAYLECLQNLIWSSSPRCLAL  
EVCPLPPMVSHGDFVCHPRPCERYNHGTVVEFYCDPGYSLTSDYKYITCQYGEWFPSYQV  
YCIKSEQTWPSTHETLLTTWKIVAFATSVLLVLLLVILARMFQTKFAHFPPRGPPRSS  
SSDPDFVVVDGVPVMLPSYDEAVSGGLSALGPGYMASVGQGCPLVDDQSPPAYPGSGDT  
DTGPGESETCDSVSGSELLQSLYSPRCQESTHPASDNPDIIASTAEVASTSPGIDIA  
DEIPLMEEDP

>sp|Q53LP3|SWAHC\_HUMAN Ankyrin repeat domain-containing protein SOWAHC OS=Homo sapiens GN=SOWAHC PE=1 SV=1

MEGPAEWGPEAALGPEAVLRFLAERGGRALHAELVQHFRGALGGEPEQRARARAHFKELV  
NAVATVRVDPADGAKYVHLKKRFCEGPSEPSGDPPRIQVTAEPDGPAGPEARDRLPD  
AAAPESLPQGRELGEPEPPAPAHWPPLSAGARRKNSRRDVQPLPRTAPGPSEDLELPP  
HGCEEADRGSSLVGATAQRPARQNLRLVMGSSPQLKRSVCPGGSSPGSSSGGRGRGGG  
DSDSASVASSSAEEESSGGGSVTLDPLEHAWMLSASDGKWSLEGLLTCEPGLLVKRDFI  
TGFTCLHWAACHGRQELLAMLVNFANKHQLPVNIDARTSGGYTALHLAAMHGHVEVVKLL  
VGAYDADVDIRDYSKKASQYLSRSIAEEIKNLVGALDEGDGSAAGSGGGRWRLSKVLP  
SHLITYKLSHALEDGGDHHHHHSAEGWVGKAKDPGRKASGSSSGRIKPRLNKIRFRTQ  
IVHTTSPFRDPEQPLEGRGEEGVGEERPVKGHSPFTLRPKSNVFG

>sp|P14868|SYDC\_HUMAN Aspartate--tRNA ligase, cytoplasmic OS=Homo sapiens GN=DARS PE=1 SV=2

MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRLVVRVRLTIQKADEVV  
WVRARVHTSRAKGKQCFLVLRQQQFNVQALVAVGDHASKQMVKFAANINKESIVDVEGVV  
RKVNQKIGSCTQQDVELHVQKIYVISLAEPRLPLQLDDAVRPEAEGEEEGRATVNQDTRL  
DNRVIDLRTSTSQAVFRLQSGICHLFRETLINKGFVEIQTPKIIISAASEGGANVFTVSYF  
KNNAYLAQSPQLYKQMCICADFEKVFSIGPVFRAEDSNTHRLTEFVGLDIEMAFNYHYH  
EVMEEIADTMVQIFKGLQERFQTEITQTVNKQFPCEPFKLEPTLRLEYCEALAMLREAGV  
EMGDEDDLSTPNEKLLGHLVKEYDITDFYILDKYPLAVRPFYTMPDPRNPKQSNSYDMFM  
RGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSFRTGAPPHAGGGIGLERVTMLF  
LGLHNVRQTSMPRPDKRLTP

>sp|Q5JPH6|SYEM\_HUMAN Probable glutamate--tRNA ligase, mitochondrial OS=Homo sapiens GN=EARS2 PE=1 SV=2

MAALLRRLQRRERPSAASGRPVGRRANLGTAGVAVRVRFAPSPTGFLHLGGLRTALYN  
YIFAKKYQGSFILRLEDTDQTRVVPGAENIEDMLEWAGIPPDESPRRGGPAGPYQQSQR  
LELYAQATEALLKTGAAYPCFCSPQRLELLKKEALRNHQTTRYDNRCRNMSQEQVAQKLA  
KDKPAIRFRLEQVVPFQDLVYGWNRHEVASVEGDPVIMKSDGFPTYHLACVDDHHMG  
ISHVLRGSEWLVTAKHLLLYQALGWQPPHFAHLPLLLNRDGSKLSKRQGDVFLEHFAAD  
GFLPDSLLDIITNCGSGFAENQMGRTPELITQFNLTQVTCHSALLDLEKLPEFNRLHLQ  
RLVSNESQRRQLVGKLQVLVEEAFGCQLQNRDVLNPVYVERILLRQGHICRLQDLVSPV  
YSYLWTRPAVGRAQLDAISEKVDVIAKRVLGLLERSSSMSLTQDMLNGELKKLSEGLEGTK

YSNVMKLLRMALSGQQGPPVAEMMLALGPKEVRERIQKVSS

>sp|Q9BT88|SYT11\_HUMAN Synaptotagmin-11 OS=Homo sapiens GN=SYT11 PE=1 SV=2

MAEITNIRPSFDVSPVAVGLIGASVLVVCVSVTVFVWSCCHQQAEEKQKNPPYKF IHMLK  
GISIYPETLSNKKKI KVRDKDGPREGGRRNLLVDAAEAGLLSRDKDPRGPSSGSCID  
QLPIKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGSLTFSVDYNFPKKALVVTIQE  
AHGLPVMDDQTQGSDPYIKMTILPDKRHRVKTRVLRKTLDPVFDETFYTGIPYSQLQDL  
VLHFLVLSFDRFSRDDVIGVMVPLAGVDPSTGKVQLTRDIIKRNIQKCISRGELQVSLS  
YQPVAQRMTVVVLKARHLPKMDITGLSGNPYVKVNVYYGRKRIAKKKTHVKKCTLNPIFN  
ESFIYDIPTDLLPDISIEFLVIDFDRTTKNEVVGRLLILGAHSVTASGAEHWREVCESPRK  
PVAKWHSLSEY

>sp|P21579|SYT1\_HUMAN Synaptotagmin-1 OS=Homo sapiens GN=SYT1 PE=1 SV=1

MVSESHHEALAAPPVTTVATVLP SNATEPASPGEKEDAFSKLKEKFMNELHKIPLPPWA  
LIAIAIVAVLLVLTCCFCICKCLFKKKKKKGKEKGGKNAINMKDVKDLGKTMKDQALK  
DDDAETGLTDGEEKEEPKEEEKLGLQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDP  
YVKVFLLPDKKKKFETKVHRKTLNPVFNEQFTFKVPYSELGGKTLMAVYDFDRFSKHDI  
IGEFKVPMTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRYVPTAGKLTVVILEAKNL  
KKMDVGGLSDPYVKIHLMQNGKRLKKKKTTIKKNTLNPYINESFSFEVPFEQIQKVQVVV  
TVLDYDKIGKNDIAIGKVFVGYNSTGAELRHWSMLANPRRPIAQWHTLQVEEEVDAMLAV  
KK

>sp|Q9BW92|SYTM\_HUMAN Threonine--tRNA ligase, mitochondrial OS=Homo sapiens GN=TARS2 PE=1  
SV=1

MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRT  
IKISLPGGQKIDAVAWNTTPYQLARQISSTLADTAVAAQVNGEPYDLERPLETDSDLRFL  
TFDSPEGKAVFWHSSSTHVLGAAAEQFLGAVLCRGPSTEYGFYHDFFLGKERTIRGSELPV  
LERICQELTAAARPFRRLEASRDQLRQLFKDNPFKLHLIEEKVTGPTATVYGCGLVDLC  
QGPHLRHTGQIGGLKLLSNSSSLWRSSGAPETLQRVSGISFPTTELLRVWEAWREEAELR  
DHRRIGKEQELFFFHELSPGSCFFLPRGTRVYNALVAFIRA EYAHRGFSEVKPTPLFSTK  
LWEQSGHWEHYQEDMFAVQPPGSDRPPSSQSDSTRHITDTLALKPMNCPAHCLMFAHRP  
RSWRELPLRLADFGALHRAEASGGLGGLTRLRCFQQDDAHIFCTTDQLEAEIQSCLDFLR  
SVYAVLGFSFRLALSTRPSGFLGDPCLWDQAEQVLKQALKEFGEPWDLNSGDGAFYGPKI  
DVHLHDALGRPHQCGTIQLDFQLPLRFDLQYKGQAGALERPVL IHRAVLGSVERLLGVLA  
ESCGGWPLWLSPFQVVVIPVGSEQEEYAKEAQQLRAAGLVSDLDADSGLTLSRRIRRA  
QLAHYNFQFVVGQKEQSKRTVNIRTRDNRRLGEWDLPEAVQRLVELQNTRVPNAEEIF

>sp|Q658P3|STEAP3\_HUMAN Metalloreductase STEAP3 OS=Homo sapiens GN=STEAP3 PE=1 SV=2

MPEEMDKPLISLHLVDSSSLAKVPDEAPKVGILGSGDFARSLATRLVGSGFKVVVGSRN  
PKRTARLFPSAAQVTFQEEAVSSPEVIFVAVFREHYSSLCSLDQLAGKILVDVSNPTEQ  
EHLQHRESNAEYLASFPTCTVVKAFNVISAWTLQAGPRDGNRQVPICGDQPEAKRAVSE  
MALAMGFMPVDMGSLASAVEEAMPLRLLPAWKVPTLLALGLFVCFYAYNFVRDVLQPYV  
QESQNKFFKLPVSVVNTTLPCVAYVLLSLVYLPGLAAALQLRRGTKYQRFDPWLDHWLQ  
HRKQIGLLSFFCAALHALYSFCLPLRRAHRYDLVNLAVKQVLANKSHLWVEEEVWRMEIY  
LSLGVLALGTLSLAVTSLPSIANSNLNREFSFVQSSLG FVALVLSTLHTLTYGWTRAFE  
ESRYKFYLPPTFTLTLLVPCVILAKALFLLPCISRRLARIRRGWERESTIKFTLPTDHA  
LAECTSHV

>sp|Q8IWL8|STH\_HUMAN Saitohin OS=Homo sapiens GN=STH PE=1 SV=1



MSEGGGQVSCIFAAPTRLRCPALIECGVNLQPLCEWMIQVARDRTLSLAWEVASLLTL  
SSSEVGLEGVGTIWPSSYSSEESSRNGAEQGRQLSIEGPFQGNCP SHPAAALPLPMRGE  
SQATSCQV

>sp|Q8TDR2|STK35\_HUMAN Serine/threonine-protein kinase 35 OS=Homo sapiens GN=STK35 PE=1  
SV=2

MGHQESPLARAPAGGAAYVKRLCKGLSWREHVESHGSLGAQSPASAAAAEGSATRRARA  
ATSRAARSRRQPGPGADHPQAGAPGGKRAARKWRCAGQVTIQGPAPPRPRAGRDEAGGA  
RAAPLLPPPPAAMETGKDGARRGTQSPERKRRSPVPRAPSTKLRPAAAAAMDPVAAEA  
PGEAFLARRRPEGGGGSARPRYSLLAEIGRGSYGVVYEAVAGRSGARVAVKKIRCDAPEN  
VELALAEFWALTSLKRRHQNVVQFEECVLQRNGLAQRM SHGNKSSQLYLRLVETSLKGER  
ILGYAEPCYLWFMFCEGGDLNQYVLSRRPDPATNKSFMLQLTSAIAFLHKNHIVHRD  
LKPDNILITERSGTPILKVADFGLSKVCAGLAPRGKEGNQDNKNVNVNKYWLSSACGSDF  
YMAPEVWEGHYTAKADIFALGIIWAMIERITFIDSETKKEL LGTYIKQGT EIVPVGEAL  
LENPKMELHIPQKRRTSMSEGIKQLLKDMLAANQDRPD AFELETRMDQVTCAA

>sp|Q15208|STK38\_HUMAN Serine/threonine-protein kinase 38 OS=Homo sapiens GN=STK38 PE=1  
SV=1

MAMTGSTPCSSMSNHTKERVMTMKVTLENFYSNLIAQHEEREMRQKKLEKVMEEGLKDE  
EKRLRRSAHARKETEFRLRKRLRGLED FESLKVIGRGAFGEVRLVQKKDTGHVYAMKIL  
RKADMLEKEQVGHIRAERDILVEADSLWVVKMFYSFQDKLNLYLIMEFLPGGDMMTLLMK  
KDTLTEETQFYIAETVLAIDSIHQLGFIHRDIKPDNLLD SKGHVKLSDFGLCTGLKKA  
HRTEFYRNLNHS LPSDFTFQNMNSKRKAETWKRNRRLAFSTVGTPDYIAPEVFMQTGYN  
KLCDWWSLGVIMYEMLIGYPPFCSETPQETYKKVMNWKETLTFPPEVPISEKAKDLILRF  
CCEWEHRIGAPGV EIKSNSFFEGVDWEHIRERPAAISIEIKSIDDSNFDEFPESDILK  
PTVATSNHPETDYKNKDWFVINYTYKRFEGLTARGAIPSYMKA AK

>sp|Q8N2I9|STK40\_HUMAN Serine/threonine-protein kinase 40 OS=Homo sapiens GN=STK40 PE=1  
SV=2

MKRRASDRGAGETSARAKALGSGISGNNAKRAGPFILGPRLGNSPVPSIVQCLARKDGTD  
DFYQLKILTLEERGDQGI ESQEERQGKMLLHTEYSLLSLLHTQDGVVHHHGLFQDRTCEI  
VEDTESSRMVKKMKKRICLVLDCLCAHDFSDKTADLINLQHYV IKEKRLSERETTVIFYD  
VVRVVEALHQKNIVHRDLKLGNMVLNKRTHRITITNFCLGKHLVSEGDLLKDQRGSPAYI  
SPDVLSGRPYRGKPSDMWALGVVLF TMLYGQFPFYDSIPQELFRKIKAAEYTI PEDGRVS  
ENTVCLIRKLLVLDPQQRLAAADVLEALSAIIASWQSLSSLSGPLQVVPDIDDQMSNADS  
SQEAKVTEEC SQYEFENYMRQQLLLAEEKSSIHDARSWVPKRQFGSAPPVRR LGHDAQPM  
TSLDTAILAQRYLRK

>sp|Q13043|STK4\_HUMAN Serine/threonine-protein kinase 4 OS=Homo sapiens GN=STK4 PE=1 SV=2

METVQLRNPPRRQLKKLDEDSLTKQPEEVFDVLEKLGE GSYGSVYKA IHKETGQIVAIKQ  
VPVESDLQEI IKEISIMQQCDSPHVVKYYSYFKNTDLWIVMEYCGAGSVSDIIRLNKT  
LTEDEIATILQSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAK  
RNTVIGTPFWMAPEVIQ EIGYNCVADIWSLGITAIEMAEGKPPYADIHPMRAIFMIPTNP  
PPTFRKPELWSDNFTDFVKQCLVKSPEQRATATQLLQHPFVRS AKGVSILRDLINEAMDV  
KLKRQESQQREVDQDDEENSEEDEMDSGTMVRAVGDEMGT VRVASTMTDGANTMIEHDDT  
LPSQLGTMVINADEEEEGTMKRREDTMQPAKPSFLEYFEQKEKENQINSFGKSVPGPLK  
NSSDWKIPQDGDYEF LKSWTVEDLQKRLALDPMMEQEIEEIRQKYQSKRQPILDAIEAK  
KRRQQNF

>sp|P09430|STP1\_HUMAN Spermatid nuclear transition protein 1 OS=Homo sapiens GN=TNP1 PE=1 SV=2

MSTSRKLKSHGMRRSKSRSPHKGVKRGSGSKRKYRKGNLKSRRKGDDANRNYRSHL

>sp|Q05952|STP2\_HUMAN Nuclear transition protein 2 OS=Homo sapiens GN=TNP2 PE=1 SV=1

MDTQTHSLPITHQLHSNSQPQSRCTRHCCQTFSSQSCRQSHRGSRSQSSSQSPASHRNPT  
GAHSSSGHQSQSPNTSPPPKRHKKTMNSHHSPMRPTILHCRCPKNRKNLEGKLLKKKKMAK  
RIQQVYKTKTRSSGWKSN

>sp|Q16623|STX1A\_HUMAN Syntaxin-1A OS=Homo sapiens GN=STX1A PE=1 SV=1

MKDRTQELRTAKSDDDDDVAVTVDRDRFMDEFFEQVEEIRGFIDKIAENVEEVKRRKHS  
ILASPNPDEKTKEELEELMSDIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQH  
STLSRKFVEVMSEYNATQSDYERERCKGRIQRQLEITGRTTTSEELEDMLESGNPAIFASG  
IIMDSSISKQALSEIETRHSEIIKLENSIRELHDMFMDMAMLVESQGEMIDRIEYNVEHA  
VDYVERAVSDTKKAVKYQSKARRKKIMIIICCVILGIVIASTVGGIFA

>sp|Q9P2R7|SUCB1\_HUMAN Succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial OS=Homo sapiens GN=SUCLA2 PE=1 SV=3

MAASMFYGRVLAVATLRNHRPTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSLHEYMS  
MELLQEAGVSVPGKYVAKSPDEAYAIKKLGSKDVIKAQVLAGGRGKGTFFESGLKGGVK  
IVFSPEEAKAVSSQMIGKKLFTKQTGEKGRICNQLVCERKYPRREYYFAITMERSFQGP  
VLIGSSHGGVNIEDVAAESPEAIIKEPIDIEEGIKKEQALQLAQKMGFPPNIVESAAENM  
VKLYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSNSAYRQKKIFDLQDWTQEDER  
DKDAAKANLNYIGLDGNIGCLVNGAGLAMATMDIIKLHGGTPANFLDVGGGATVHQVTEA  
FKLITSDKKVLAILVNIFFGGIMRCDVIAQGIVMAVKDLEIKIPVVVRLQGTRVDDAKALI  
ADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLPI

>sp|Q8NB77|SUMF2\_HUMAN Sulfatase-modifying factor 2 OS=Homo sapiens GN=SUMF2 PE=1 SV=2

MARHGLPLLPLLSLLVGAWLKLNGQATSMVQLQGGRFLMGTNSPDSRDGDGPVREATVK  
PFAIDIFPVTNKDFRDFVREKKYRTEAEMFGWSFVFEDFVDELNRKATQPMKSVLWWLP  
VEKAFWRQPAGPGSGIRERLEHPVLHVSWNDARAYCAWRGKRLPTEEEWEFAARGGLKGQ  
VYPWGNWFQPNRTNLWQGKFPKGDKAEDGFHGVSPVNAFPAQNNGLYDLLGNVWEWTAS  
PYQAAEQDMRVLRGASWIDTADGSANHRARVTTRMGNTPDASDNLGFRCAADAGRPPGE  
L

>sp|Q6EEV6|SUMO4\_HUMAN Small ubiquitin-related modifier 4 OS=Homo sapiens GN=SUMO4 PE=1 SV=2

MANEKPTEEVKTENNHNINLKVAGQDGSVVQFKIKRQTPLSKLMKAYCEPRGLSMKQIRF  
RFGGQPISGTDKPAQLEMEDEDITDVFFQPTGGVY

>sp|Q8TAQ9|SUN3\_HUMAN SUN domain-containing protein 3 OS=Homo sapiens GN=SUN3 PE=2 SV=4

MSGKTKARRAAMFFRRCSSEDASGSASGNALLSEDPDANGVTRSWKIIILSTMLTLTFL  
VGLLNHQWLKETDVPQKSRQLYAIIEYGSRLYKYQARLRMPKEQLELLKKESQNLNNF  
RQILFLIEQIDVLKALLRDMKDGMDNNHNWNTHGDPVEDPDHTEEVSNLVNYVLKKLRED  
QVEMADYALKSAGASII EAGTSESYKNNKAKLYWHGIGFLNHEMPDIIILQPDVYPGKCW  
AFPGSQGHTLIKLATKIIPTAVTMEHISEKVSPSGNISSAPKEFSVYGITKKCEGEEIFL  
GQFIYNTGTTVQTFELQHAVSEYLLCVKLNIFSNWGHPKYTCLYRFRVHGTGPKHI

>sp|O75683|SURF6\_HUMAN Surfeit locus protein 6 OS=Homo sapiens GN=SURF6 PE=1 SV=3

MASLLAKDAYLQSLAKKICSHSAPEQQARTRAGKTQGSETAGPPKKRKKTKKKFRKREE  
KAAEHKAKSLGEKSPAASGARRPEAAKEEAAWASSSAGNPADGLATEPESVFALDVLRQR

LHEKIQEARGQGSAKELSPAALEKRRRRKQERDRKKRKRKELRAKEKARKAEAEATEAEV  
VEATPEGACTEPREPPGLIFNKVEVSEDEPASKAQRREKQRVKGNLTPLTGRNYRQLL  
ERLQARQSRLDELRGQDEGKAQLEAKMKWTNLLYKAEGVKIRDDERLLQEALKRKEKRR  
AQRQRWEKRTAGVVEKMQQRQDRRRQNLRRKKAARAERLLRARKKGRILPQDLERAGL  
V

>sp|060279|SUSD5\_HUMAN Sushi domain-containing protein 5 OS=Homo sapiens GN=SUSD5 PE=1  
SV=3

MTAEGPSPPARWHRRPLGLWAAALLLLGLPRLSVRADGKFFVLESQNGSQGLQLEAARLS  
CKSRGAHLASADELRRVVQDCSFVCTTGWLADGTLGTTVCSKSGEQQIMRAVDVRIES  
NPVPGGTYSALCIKDEEKPCGPPSPFHTILQGRTGLEMGDELLYVCAPGHIMGHRETAF  
TLLCNSCGEWYGLVQACGKDEAEAHIDYEDNFPDDRSVSFRELMEISRTEADEDRGQGDS  
SEEAPKQDRLVSIISVGRENIAIDKVFVPTTGLPGAGSSVPADSPGSRLQKHLFWFPAEA  
FHKPGLEKEVDDDTKKQFSAGDNHSGVKLVPGEPETKVIYNGTDGPSGPFVGNDSKAGD  
PVVSSDESWLDGYPVTEGAWRKTEAEEDGDRGDGSGVLDENVLVTDPQILVEVKKP  
KSSTLTPSEGMTSSVLPSQMLDVEALALRPVNASETEGIGDGLTKYQSTLPWRFITEE  
SPMATLSYELTSSTLEILTVNTVKQTPNHIPSTIMATTQPPVETTVEIQDSFPYLLSED  
FFGQEGPGPGASEELHPTLESCVGDGCPGLSRGPVIATIVTVLCLLLLAVGMVWGYRK  
CQHKSSVYKLVNGQRQARHYHQIEMEKV

>sp|Q7L0J3|SV2A\_HUMAN Synaptic vesicle glycoprotein 2A OS=Homo sapiens GN=SV2A PE=1 SV=1

MEEGFRDRAAFIRGAKDIAKEVKKHAACKVVKGLDRVQDEYSRRSYRFEEEDDDDFPA  
PSDGYRGEQTQDEEEGGASSDATEGHDEDEIYEGEYQGIPRAESGGKGERMADGAPLA  
GVRGGLSDGEGPPGGRGEAQRKEREELAQQYEAILRECGHGRFQWTLYFVLGLALMADG  
VEVFVVGFLPSAEKDMCLSDSNKMLGLIVYLGMVGAFLWGGLADRLGRRQCLLISLS  
VNSVFAFFSSFVQGYGTFLFCRLSGVGIGGSIPIVFSYFSEFLAQEKRGHLSWLCMFW  
MIGGVYAAAMAWAIIPHYGWSFQMGSAQFHSWRVFLVCAFPSPVFAIGALTTPESPRF  
FLENGKHDEAWMLKQVHDTNMRAGHPERVFSVTHIKTIHQEDELIEIQSDTGTWYQRW  
GVRALSLGGQVWGNFLSCFGPEYRRITLMMMGVWFTMSFSYYGLTVWFPDMIRHLQAVDY  
ASRTKVFPERVEHVTFNFTLENQIHRGGQYFNDKFIGLRLKSVSFEDSLFEECYFEDVT  
SSNTFFRNCTFINTVFYNTDLFEYKFVNSRLINSTFLHNKEGCPDVTGTGEGAYMVYFV  
SFLGTLAVLPGNIVSALLMDKIGRLRMLAGSSVMSCVSCFFLSFGNSESAMIALLCFLGG  
VSIASWNALDVLTVELYPDKRTTAFGLNALCKLA AVLGISIFTSFVGITKAAPILFAS  
AALALGSSLALKLPETRQQLQ

>sp|Q4LDE5|SVEP1\_HUMAN Sushi, von Willebrand factor type A, EGF and pentraxin domain-  
containing protein 1 OS=Homo sapiens GN=SVEP1 PE=1 SV=3

MWPRLAFCCWGLALVSGWATFQQMSPSRNFSFRLFPETAPGAPGSIPAPPAGDEAAGSR  
VERLGQAFRRRVRLRELSELELVFLVDDSSSVGEVNFRELMEFVRKLLSDFPVVPTAT  
RVAIVTFSSKNYVPRVDYISTRARQHKCALLLQEIPAISYRGGGTYTKGAFQAAAQIL  
LHARENSTKVFLITDGYSNGDPRPIAASLRDSGVEIFTFGIWQGNIRELNMASTPKE  
EHCYLLHSFEEFEALARRALHEDLPSGSFIQDDMVHCSYLCDEGKDCCDRMGSKCGTHT  
GHFECICEKGYGKGLQYECTACPSGTYPKPGSGGISSCIPCPDENHTSPPGSTSPEDC  
VCREGYRASGQTCELVHCPALKPPENGYFIQNTCNNHFNAACGVRCHPGFDLVGSSIILC  
LPNGLWSGESYCRVTCPLHRQPKHGHISCSTREMLYKTTCLVACDEGYRLEGSDKLT  
CQNSQWDGPEPRCVERHCSTFQMPKDVIISPNCCKQPAKFGTICYVSCRQGFILSGVKE  
MLRCTTSGKWNVGVQAAVCKDVEAPQINCPKDIEAKTLEQQDSANVTWQIPTAKDNSGEK

VSVHVHPAFTPPYLFPIGDVAIVYTATDLSGNQASCIFHIKVIDAEPVIDWCRSPPPVQ  
VSEKVHAASWDEPQFSDNSGAELVITRSHTQGDLFPQGETIVQYTATDPSGNNRTCDIHI  
VIKGSPEIPFTPVNGDFICTPDNTGVNCTLTCLGYDFTEGSTDKYYCAYEDGVWKPTY  
TTEWPDCAKKRFANHGFKSFEMFYKAARCDDTDLMKKFSEAFETTLGKMVPSFCSDAEDI  
DCRLEENLTKKYCLEYNYDYENGFAIGPGGWGAANRLDYSYDDFLDTVQETATSIGNAKS  
SRIKRSAPLSDYKIKLIFNITASVPLPDERNDLEWENQQRLLQTLETITNKLKRTLNDK  
PMYSFQLASEILIADSNLETKKASPFRCRPGSVLRGRMCVNCPLGTYYNLEHFTCESCRI  
GSYQDEEGQLECKLCPSGMYTEYIHSRNISDCKAQCKQGTYSYSGLETCESCPLGTYQPK  
FGSRSLSCPENTSTVKRGAVNISACGVPCPEGKFSRSGLMPCHPCPRDYYQPNAGKAFC  
LACPFYGTTPFAGRSITECSSFSSTFSAAEESVVPASLGHIAKRHEISSQVFHECFN  
PCHNSGTCQQLGRGYVCLCPLGYTGLKCETDIDECSPPLCLNNGVCKDLVGEFICECPSG  
YTGQRCEENINECSSPCLNKGICVDGVAGYRCTCVKGFVGLHCETEVEQCNSPCLNNA  
VCEDQVGGFLCKCPPGLGTRCGKNVDECLSQPCKNGATCKDGANSFRCLCAAGFTGSHC  
ELNINECQSNPCRNQATCVDELNSYSCKCPGFGSKRCETEQTGFNLDFEVSGIYGYVM  
LDGMLPSLHALTCTFWMKSSDDMNYGTPISYAVDNGSDNTLLLTDYNGWVLYVNGREKIT  
NCPSVNDGRWHHIAITWTSANGIWKVYIDGKLSGGAGLSVGLPIPGGGALVLGQEQQDKK  
GEGFSPAESFVGSISQLNLWDYVLSPPQVKSLATSCPEELSKGNVLAWPDFLSGIVGKVK  
IDSKSIFCSDCPRLGGSVPHLRTASEDLKPGSKVNLFCDPGFQLVGNPVQYCLNQGQWTQ  
PLPHCERISCGVPPPLENGFHSADDFYAGSTVTYQCNNGYLLGDSRMFCTDNGSWNGVS  
PSCLDVDECAVSDCSEHASCLNVDGSYICSCVPPYTGDGKNCAEPIKCKAPGNPENGHS  
SGEIYTVGA EVTFSQCQEGYQLMGVTKITCLESGEWNHLIPYKAVSCGKPAIPENG CIEE  
LAFTFGSKVTYRCNKGYTLAGDKESSCLANSSWSHSPVCEPVKCSSPENINNGKYILSG  
LTYLSTASYSCTDGYSLQGPSIIECTASGIWDRAPPACHLVFCGEPPAIKDAVITGNNFT  
FRNTVTYTCKEGYTLAGLDTIECLADGKWSRSDQQCLAVSCDEPPIVDHASPETAHRLFG  
DIAFYCYSDGYSLADNSQLLCAQKGKWPPEGQDMPRCIAHFCEKPPSVSYSILESVS KA  
KFAAGSVVSFKCMEGFVLNTSAKIECMRGGQWNPSPMSIQICIPVRCGEPPSIMNGYASGS  
NYSFGAMVAYSCNKGFYIKGEKKSTCEATGQWSSPIPTCHPVSCGEPPKVENG FLEHTTG  
RIFESEVRYQCNP GYKSVGSPVFCQANRHHWSESPLMCVPLDCGKPPPIQNGFMKG ENF  
EVGSKVQFFCNEGYELVDGSSWTCQKSGKWNKSNPKCMPAKCEPPLLENQLVLKELTT  
EVGVVTFSCKEGHVLQGPSVLKCLPSQQWNDSFPVCKIVLCTPPPLISFGVPIPSALHF  
GSTVKYSCVGGFFLRGNSTTLCPDGTWSSPLPECVPVECPQPEEIPNGIIDVQGLAYLS  
TALYTCKPGFELVGNTTTLCGENGHWLGGKPTCKAIECLKPKEILNGKFSYTDLHYGQTV  
TYSNCRGFRLEGPSALTCL ETGDWDVDAPSCNAIHCDSPQPIENG FVEGADYSYGAI IY  
SCFPGFQVAGHAMQTCEESGWSSSIPTCMPIDCGLPPHIDFGDCTKLKDDQGYFEQEDDM  
MEVPYVTPHPYHLGAVAKTWENTKESPATHSSNFLYGTMVSYTCNPGYELLGNPVLICQ  
EDGTWNGSAPSCISIECDLPTAPENGFLRFTETSMGSAVQYSCKPGHILAGSDLRLCLEN  
RKWSGASPRCEAISCKKPNPVMNGSIKGSNYTYLSTLYECDPGYVLNGTERRTCQDDKN  
WDEDEPICIPVDCSSPPVSANGQVRGDEYTFQKEI EYTCNEGFLLEGARSRVCLANGSWS  
GATPDCVPVRCATPPQLANGVTEGLDYGFMEKVTFHCHEGYILHGAPKLT CQSDGNWDAE  
IPLCKPVNCGPPEDLAHGFPNGFSFIHGHHIQYQCFPGYKLHGNSRRCLSNGSWSGSSP  
SCLPCRCSTPVI EYGTVNGTDFDCGKAARIQCFKGFKLLGLSEITCEADGQWSSGFPHCE  
HTSCGSLPMIPNAFIS ETSSWKENVITYSCRSGYVIQGSDDLICTEKG VWSQYPVCEPL  
SCGSPPSVANAVATGEAHTYESEVKLRCLEGYTMDTDTDTFTCQKDG RWFPERISCSPPK  
CPLPENITHILVHGDDFSVNRQVSVS CAEGYTFEGVNISVCQLDGTWEPPFSDESCSPVS

CGKPESPEHGFVVGSKYTFESTIIYQCEPGYELEGNRERVQENRQWSGGVAICKETRCE  
TPLEFLNGKADIENRTTGPNNVYSCNRGYSLEGPSEAHCTENGTSHPVPLCKPNPCPVP  
FVIPENALLSEKEFYVDQNVSIKREGFLLQGHGIITCNDETWTQTSACEKISCPPA  
HVENAIARGVHYQYQDMITYSCYSGYMLEGFLRSVCLENGTSPPICRAVCRFPCQNGG  
ICQRPNACSCPEGWMGRLECEPICILPCLNGGRCVAPYQDCPPGWTGSRCHTAVCQSPC  
LNGGKCVRPNRCHCLSSWTGHNCSRKRRTGF

>sp|Q8N434|SVOPL\_HUMAN Putative transporter SVOPL OS=Homo sapiens GN=SVOPL PE=2 SV=2

MATKPTEPVTILSLRKLSLGTAEPQVKEPKTFTVEDAVETIGFGRFHIALFLIMGSTGVV  
EAMEIMLIAVVSPIRCEWQLENWQVALVTMVFFGYMVFSILFGLLADRYGRWKILLIS  
FLWGAYFSLLTSFAPSYIWFVFLRTMVGCGVSGHSQGLIIKTEFLPTKYRGYMLPLSQVF  
WLAGSLLIIGLASVIPTIGWRWLIRVASIPGIILIVAFKFIPESARFNVSTGNTRAALA  
TLERVAKMNRSMPEGKLVEPVLEKRGRFADLLDAKYLR TTLQIWWIWLGISFAYYGVL  
ASAELLERDLVCGSKSDSAVVVTGGDSGESQSPCYCHMFAPSDYRTMIISTIGEIALNPL  
NILGINFLGRRLSLSITMGCTALFFLLNICTSSAGLIGFLFMLRALVAANFNTVYIYTA  
EVYPTTMRALGMGTSGSLCRIGAMVAPFISQVLMSASILGALCLFSSVCVVCAISAFTLP  
IETKGRALQQIK

>sp|A6NJG2|SOWAH\_HUMAN Ankyrin repeat domain-containing protein SOWAHD OS=Homo sapiens  
GN=SOWAHD PE=2 SV=1

MAQLGGAANRAPTASLAPTSQSLRCAPQPRPSRADTGSLGRYWGKAAAAASREHPFPGTL  
MHSAAGSGRRRGALRELLGLQRAAPAGWLSEERAEEELGGPSGPGSSRLCLEPREHAWILA  
AAEGRYEVLRELLEAEPELLLRGDPITGYSVLHWLAKHGRHEELILVHDFALRRGLRLDV  
SAPGSGGLTPLHLAALQGHDMVIKVLVGALGADATRRDHSGHRACHYLRPDAPWRLRELS  
GAEEWEMESGSGCTNLNNSSGTTAWRAASAVGATAVETSRRVAASRTKAKDTAGSRVAQ  
MHSLEFRHLFSPSFQDR

>sp|Q1ZZU3|SWI5\_HUMAN DNA repair protein SWI5 homolog OS=Homo sapiens GN=SWI5 PE=1 SV=1

MQRRGQRDLWRHNKSCARNRCRPPRERGGAGFPWVRAQLSVRQFTLRVRVPGPVHLRGR  
SPTPALDPLAPLNPLIRGPRTPLRRWISLALLLPNCSSSRIPTVPRPHSGLWVQSDFP  
LGFLSRTEPRLTRSCRGAFRSPRLPKSGQADGTSEESLHLDIQKLKEKRDMLDKEISQF  
VSEGYSDLEHDITQLHEYNDIKDVGMGLKLAIVRGVTTKELYPEFGLDMND

>sp|P41252|SYIC\_HUMAN Isoleucine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=IARS PE=1  
SV=2

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHIL  
AGTIKDIVTRYAHQSGFHVDRRFWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQC  
RAIVMRYSAEWKSTVSRLGRWIDFDNDYKTLYPQFMESVWWVFKQLYDKGLVYRGVKVMP  
FSTACNTPLSNFESHQNYKDQPSVFTFPLEEDETSLVAWTTTPWTLPSNLAVCVNP  
EMQYVKIKDVARGRLILMEARLSALYKLESDYEILERFPGAYLKGGKYRPLFDYFLKCK  
ENGAFTVLVDNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIIRKDSLPCVPVDASGCFTT  
EVTDFAGQYVKDADKSIIRTLKEQGRLLVATTFTHSYPCWRSDTPLIYKAVPSWFVRVE  
NMVDQLLRNNDLCYWPELVREKRFGNWLKDARDWTISRNYWGTP IPLVWSDDFEVVC  
IGSVAELEELSGAKISDLHRESVDHLTIPSRCKGKSLHRISEVFDCWFESGSMPIYAQVHY  
PFENKREFEDAFPADFIAEGIDQTRGWFYTLVLATALFGQPPFKNVIVNGLVLASDGQK  
MSKRKNYPDPVSI IQYGADALRLYLINSPVVAENLRFKEEGVRDVLKDVLLPWYNAY  
RFLIQNVRLRLQEEEEIEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYTVV  
PRLVKFVDILTNYVVRMNRRLKGENGMEDCVMALETLSVLLSLCRLMAPYTPFLTELM

YQNLKVLIDPVSQDKDTLSIHVLMPLRVREELIDKKTESAVSQMQSVIELGRVIRDRKT  
IPIKYPLKEIVVIHQDPEALKDIKSLEKYIIEELNVRKVTLSTDKNKYGIRLRAEPDHMV  
LGKRLKGAFKAVMTS IKQLSSEEEQFQKTGTIVVEGHELHDEDIRLMTFDQATGGTAQ  
FEAHSDAQALVLLDVTDPQSMVDEGMAREVINRIQKLRRKCNLVPTDEITVYYKAKSEGT  
YLNVSIESHTEFIFTTIKAPLPYPVSPSDKVL IQEKTQLKGSELEITLTRGSSLPGPAC  
AYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVKNTLAVFHDTEIQN  
QTDLLSLSGKTLCTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL  
GQNGLTHQGLLYEAAKVFLRSRKLKFLNETQTQEITEDIPVKTLNMKT VYVSVLPPTA  
DF

>sp|Q9P2J5|SYLC\_HUMAN Leucine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=LARS PE=1 SV=2

MAERKGTAKVDFLKKIEKEIQKWDTERVFEVNASLEKQTSKGKYFVTFPYPYMNGRLH  
LGHTFSLSKCEFAVGQYRLKGKCLFPFGLHCTGMP IKACADKLKREIELYGCPPDFPDE  
EEEEETS VKTEDII IKDKAKGKSKAAAKAGSSKYQWGMKSLGLSDEEIVKFSEAEHW  
LDYFPPLAIQDLKRMGLKVDWRRSFITTDVNPYYDSFVRWQFLT LRERNKIKFGKRYTIY  
SPKDGQPCMDHQRGTGEGVGPQEYTLKLVLEPYPSKLSGLKGKNIFLVAATLRPETMF  
GQTNCWVRPDMKYIGFETVNGDIFICTQKAARNMSYQGFTKDNGVVPVKELMGEEILGA  
SLSAPLTSYKVIYVLPMLTIKEDKGTGVVTSVPSDSPDDIAALRDLKKKQALRAKYGIRD  
DMVLPFEPVPVIEIPGFGNLSAVTICDELKIQSQNDREKLAEAKEIYLGKGYEGIMLVD  
GFKGQKVQDVKKTIQKKMIDAGDALIYMEPEKQVMSRSSDECVALCDQWYLDYGEENWK  
KQTSQCLKNLETFCETRRNFEATLGWLQEHACSRTYGLGTHLPWDEQWLI ESLS DSTIY  
MAFYTVAHLLQGQNLHGQAESPLGIRPQQTKEVWDYVFFKEAPFPKTQIAKEKLDQLKQ  
EFEFWYPVDLRVSGKDLVPNHLSYYLYNHVAMWPEQSDKWPTAVRANGHLLNSEKMSKS  
TGNFLTLTQAIDKFSADGMRLALADAGDTVEDANFVEAMADAGILRLYTWEVWKEMVAN  
WDSLRS GPASTFNDRVFASLNAGIIKTDQNYEKMMFKEALKTGFFEFQAAKDKYRELAV  
EGMHREL VFRFIEVQTLLLAPFCPHLCEHIWTL LGKPD SIMNASWPVAGPVNEVL IHSSQ  
YLMEVTHDLRLRLKNYMPAKGKTKDQPLQKPSHCTIYVAKNYPWPQHTTLSVLRKHFE  
ANNGKLPDNKVIASELGSMPELK KYMKVMPFVAMIKENLEKMGPRILDLQLEFDEKAVL  
MENIVYLTNSLEHIEVKFASEAEDKIREDCCPGKPLNVFRIEPGVS VSLVNPQPSNGH  
FSTKIEIRQGDNCDSIIRRLMKMNRGIKDL SKVKLMRFDDPLLGP RRVPVLGKEYTEKTP  
ISEHAVFNVDLMSKKIHLTENGIRVDIGDTIIYLVH

>sp|Q15031|SYLM\_HUMAN Probable leucine--tRNA ligase, mitochondrial OS=Homo sapiens  
GN=LARS2 PE=1 SV=2

MASVWQRLGFYASLLKRQLNGGPDVIKWERRVIPGCTRSIYSATGKWTKEYTLQTRKDVE  
KWWHQRIKEQASKISEADKSKPKFYVLSMFPYPSGKLHMGHVRVYTISDTIARFQKMRGM  
QVINPMGWDAFGLPAENAAVERNLHPQSWTQSNIKHMRKQLDRLGLCFSWDREITTCLPD  
YYKWTQYLFIKLYEAGLAYQKEALVNWDVPDQTVLANEQVDEHGCSWRSGAKVEQKYLRQ  
WFIKTAYAKAMQDALADLPEWYGIKGMQAHWIGDCVGCHLDFTLKVHGQATGEKLTAYT  
ATPEAIYGTSHVAISPSHRL LHGHSSLKEALRMALVPGKDCLTPVMAVNMLTQQEVPVVI  
LAKADLEGLDSKIGIPSTSS EDTILAQTLGLAYSEVIETLPDGTERLSSSAEFTGMTRQ  
DAFLALTQKARGKRVGGDVTSDKLDWLISRQRYWGTPIPIVHCPVCGPTPVPLEDL PVT  
LPNIASFTGKGGPPLAMASEWVNCSCPRCKGA AKRETDMDTFVDSAWYYFRYTDPHNPH  
SPFNTAVADYWMPVDLYIGGKEHAVMHLFYARFFSHFCHDQKMVKHREPFHKLLAQGLIK  
GQTFRLPSGQYLQREEVDLTGSVPVHAKTKEKLEVTWEKMSKSKHNGVDPEEVVEQY GID  
TIRLYILFAAPPEKDILWDVKTDALPGVLRWQQRLWTLTTRFIEARASGKSPQPQLLSNK

EKAEARKLWEYKNSVISQVTTHTFEDFSLNSAISQLMGLSNALSQASQSVILHSPEFEDA  
LCALMVMAAPLAPHVTSEIWAGLALVPRKLCAHYTWDASVLLQAWPAVDPEFLQQPEVVQ  
MAVLINNACGKIPVPQQVARDQDKVHEFVLQSELGVRLQGRSIKKSFLSPRTALINFL  
VQD

>sp|O60224|SSX4\_HUMAN Protein SSX4 OS=Homo sapiens GN=SSX4 PE=2 SV=1  
MNGDDAFARRPRDDAQISEKLKAFDDIAKYFSKKEWEKMSSEKIVVYMKLNYEVMTK  
LGFKVTLPPFMRSKRAADFHGDNFGNDRNHRNQVERPQMTFGSLQRIFPKIMPKKPAEEE  
NGLKEVPEASGPQNDGKQLCPPGNPSTLEKINKTSGPKRGKHAWTHRLRERKQLVYEEI  
SDPEEDDE

>sp|Q7RTT4|SSX8\_HUMAN Protein SSX8 OS=Homo sapiens GN=SSX8 PE=2 SV=2  
MNGDDAFAKRPRDDDKASEKRSKAFNDIATYFSKKEWEKMYSEKISVYMKRNYEAMTK  
LGFNVTLPFFMCNKQATDFQGNFYDNDNRRIQVERPQMTFGRLQRIIPKIMPKKPAEEG  
NDSKGVSEASGPQNDGKQLAPGKANTSEKINKRSGPKRGRHAWTHRLRERNQLVIYEEIR  
DPEEDDE

>sp|P50225|ST1A1\_HUMAN Sulfotransferase 1A1 OS=Homo sapiens GN=SULT1A1 PE=1 SV=3  
MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLISTYPKSGTTWVSQILDM  
IYQGGDLEKCHRAPIFMRVPFLEFKAPGIPSGMETLKDTPAPRLKTHLPLALLPQTLLD  
QKVKVYVARNADKAVSYHYFHYHMAKVHPEPGTWDSFLEKFMVGEVSYGSWYQHVQEW  
ELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETVDFVQHTSFKEMKKNPMTNY  
TTVPQEFMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

>sp|PODM9|ST1A3\_HUMAN Sulfotransferase 1A3 OS=Homo sapiens GN=SULT1A3 PE=1 SV=1  
MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLINTYPKSGTTWVSQILDM  
IYQGGDLEKCNRAPIYVRVPFLEVNDPGEPSGLETLKDTPPPRLIKSHLPLALLPQTLLD  
QKVKVYVARNPKDVAVSYYHFHRMEKAHPEPGTWDSFLEKFMAGEVSYGSWYQHVQEW  
ELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETDMFMVQHTSFKEMKKNPMTNY  
TTVPQELMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

>sp|Q8WU08|ST32A\_HUMAN Serine/threonine-protein kinase 32A OS=Homo sapiens GN=STK32A PE=1  
SV=2

MGANTSRKPPVFDENEDVNFDFHEILRAIGKGSFGKVCIVQKNDTKKMYAMKYMNKQKCV  
ERNEVRNVFKELQIMQGLEHPFLVNLWYSFQDEEDFMVVDLLGGDLRYHLQQNVHFKE  
ETVKLFICELVMALDYLQNRIIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITM  
AGTKPYMAPEMFSSRKAGYSFAVDWWSLGVTAPELLRGRRPYHIRSSTSSKEIVHTFET  
TVVTYPSAWSQEMVSLKKLLEPNPDQRFSQLSDVQNFPMNDINWDAVFQKRLIPGFIP  
NKGRLNCDPTFELEEMILESKPLHKKKKRLAKKEKDMRKCDSSQTCLLQEHLDVQKEFI  
IFNREKVNRFNKRQPNLALEQTKDPQGEGQNNNL

>sp|Q9Y2H1|ST38L\_HUMAN Serine/threonine-protein kinase 38-like OS=Homo sapiens GN=STK38L  
PE=1 SV=3

MAMTAGTTTTFPMNSNHTREVRTVAKLTLENFYSNLILQHEERETRQKKLEVAMEEEGLAD  
EEKLRRSQHARKETEFRLRLKRTGLDDFESLKVIGRGAFGEVRLVQKKDTGHIYAMKI  
LRKSDMLEKEQVAHIRAERDILVEADGAWVKMFYSFQDKRNLYLIMEFLPGDMMTLLM  
KKDTLTEEETQFYISETVLAIDAIHQLGFIHRDIKPDNLLDAKGHVKLSDFGLCTGLKK  
AHRTEFYRNLTNPPSDFSQNMNSKRKAETWKKNRRQLAYSTVGTPDYIAPEVFMQTGY  
NKLCDWWSLGVIMYEMLIGYPPFCSETPQETYRKVMNWKETLVFPPEVPISEKAKDLILR  
FCIDSENRIKNSGVVEIKGHPFFEGVDWEHIRERPAAIPIEIKSIDDTSNFDDFPESDIL

QPVPTTEPDYKSKDWVFLNYTYKRFEGLTQRGSIPTYMKAGKL

>sp|Q6IMI4|ST6B1\_HUMAN Sulfotransferase 6B1 OS=Homo sapiens GN=SULT6B1 PE=2 SV=2

MADKSKFIEYIDEALEKSKETALSHLFFTYQGIPYPITMCTSETFQALDTFEARHDDIVL  
ASYPKCGSNWILHIVSELIVAVSKKKYKYPEFPVLECGDSEKYQRMKGFPSPRILATHLH  
YDKLPGSIFENKAKILVIFRNPKDTAVSFLHFHNDVPDIPSYGSWDEFFRQFMKGQVSWG  
RYFDFAINWNKHLGDGNVKFILYEDLKENLAAGIKQIAEFLGFFLTGEQIQTISVQSTFQ  
AMRAKSQDTHGAVGPFLFRKGEVGDWKNLFSEIQNQEMDEKFKECLAGTSLGAKLKYESY  
CQG

>sp|Q9NRC1|ST7\_HUMAN Suppressor of tumorigenicity 7 protein OS=Homo sapiens GN=ST7 PE=1  
SV=1

MAEATGFLEQLKSCIVWSWTVLWTVWFFIVLFLVYILRVPLKINDNLSTVSMFLNTLTP  
KFYVALTGTSLSISGLILIFEWVYFRKYGTSFIEQVSVSHLRPLLGGVDNNSNNSNNSN  
GDSDSNRQSVSECKVWRNPLNLFRAEYNRYTWVTGREPLTYDMNLSAQDHQTFFTCDS  
DHLRPADAIMQAWRERNPQARISAAHEALEINEIRSRVEVPLIASSTIWEIKLLPKCAT  
AYILLAEEEATTIAEAEKLFKQALKAGDGCYRRSQQLQHSGSYEAQHRRDTNVLVYIKR  
RLAMCARRLGRTREAVKMMRDLMEFPLLSMFNIHENLLEALLELQAYADVQAVLAKYDD  
ISLPSATICYTAALLKARAVSDKFSPEAASRRGLSTAEMNAVEAIHRAVEFNPHVPKYL  
LEMKSLILPPEHILKRGDSEAIAYAFFHLAHWKRVEGALNLLHCTWEGTFRMIPYPLEKG  
HLFYYPYICTETADRELLPSFHEVSVYPKKELPFFILFTAGLCSFTAMLALLTHQFPELM  
GVFAKAMIDIFCSAEFRDWNCKSIFMRVEDELEIPPAPQSQHFN

>sp|P42229|STA5A\_HUMAN Signal transducer and activator of transcription 5A OS=Homo sapiens  
GN=STAT5A PE=1 SV=1

MAGWIAQQQLQGDALRQMQLVYLGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRAQATQL  
LEGLVQELQKKAHQVGEDGFLKIKLGHYATQLQKTYDRCPLELVRCIRHILYNEQRLV  
REANNCSSPAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESL  
RIQAQFAQLAQLSPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLL  
RKQQTIIILDELQWKRRQQLAGNGGPEGSLDVLQSWCEKLAELIWNQRQQIRRAEHL  
CQQLPPIPGPVEEMLAEVNATITDIIISALVTSTFIEKQPPVLKTQTKFAATVRLLVGGKL  
NVHMNPPQVKATIIIEQQAKSLKNENTRNECSGEILNCCVMEYHQATGTLAHRNMS  
LKRIKRADRRGAESVTEEKFTVLFEQSVSGSNELVFQVKTLSLPVVVIVHGSQDHNATA  
TVLWDNAFAEPGRVPFPAVPDKVLWPQLCEALNMKFAEVQSNRGLTKENLVFLAQKLFNN  
SSSHLEDYSGLSVSWSQFNRENLPGWNYTFWQWFDGVMVLEKHHKPHWNDGAILGFVNK  
QQAHDLLINKPDGTFLLRFSDEIGGITIAWKFDSPERNLWNLKPFTTRDFSIRSLADRL  
GDLSYLIYVFPDRPKDEVFSKYTPVLAKAVDGYVKPQIKQVPEFVNASADAGGSSATY  
MDQAPSPAVCPQAPYNMYPQNPDPVLDQDGEFDLDETMDVARHVEELLRRPMDSLDSRLS  
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>sp|Q8WWQ8|STAB2\_HUMAN Stabilin-2 OS=Homo sapiens GN=STAB2 PE=1 SV=3

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ITGSGVGRDCRYTFEVRTYSLSLPGCRHICRKDYLPCCPGRWGPDCIECPGGAGSPC  
NGRGSACGMEGNGTCSCEGFGGTACETCADDNLFGPSCSSVCNCVHVCNSGLDGDGT  
CECYSAYTGPKCDKPIPECAALLCPENSRCSPSTEDENKLECKCLPNYRGDGKYCDPINP  
CLRKICHPHAHCTYLGNRHSTCCEGYRGDQVCLPVDPCQINFGNCPTKSTVCKYDGP  
GQSHCECKEHYQNFVPGVGCMTDICKSDNPCHRNANCTTVAPGRTECICQKGYVGDGLT  
CYGNIMERLRELNTEPRGKWQGRLTFSISLLDKAYAWPLSKLGPFTVLLPTDKGLKGFNV



NELLVDNKAQYFVKLHI IAGQMNI EYMNNTDMFYTLTGKSGE IFNSDKDNQIKLKLHGG  
KKKVKI IQGDI IASNGLLHILDRAMDKLEPTFESNNEQTIMTMLQPRYSKFRSLLEETNL  
GHALDEGDVGGPYTIFVPNNEALNMKDGTLDYLLSPEGSRKLELVRYHIVPFTQLEVA  
TLISTPHIRSMANQLIQFNTTNDNGQILANDVAMEEIEITAKNGRIYTLTGVLIPPSIVPI  
LPHRCDETKREMKGTCVSCSLVYWSRCPANSEPTALFTHRCVYSGRFGSLKSGCARYCN  
ATVKIPKCKGFYGPDCNQCPGGFSNPCSGNGQCADSLGGNGTCICEEGFQGSQCQFCSD  
PNKYGPRCNKKCLCVHGTNNRIDSDGACLGTGCRDGSAGRLCDKQTSACGPYVQFCHIH  
ATCEYSNGTASICKAGYEGDGTLCSEMDPCTGLTPGGCSRNAECIKTGTGHTCVCQQG  
WTGNRDCSEINNCLLPSAGGCHDNASCLYVGPGQNECECKKGFRNGIDCEPITSCLEQ  
TGKCHPLASCQSTSSGVWSCVCQEGYEGDGLCYGNAAVELSFLSEAAIFNRWINNASLQ  
PTLSATSNLTVLPSQQATEDMDQDEKSFWLSQSNIPALIKYHMLLGTYRVADLQTLSSS  
DMLATSLQGNFLHLAKVDGNITIEGASIVDGDNAATNGVIHI INKVLVPQRRLTGSLPNL  
LMRLEQMPDYSIFRGYIIQYNLANAIEAADAYTVFAPNNNAIENYIREKKVLSLEEDVLR  
YHVVLEEKLLKNDLHNGMHRETMLGFSYFLSFFLHNDQLYVNEAPINYTNVATDKGVIHG  
LGKVL EIQKNRCDNNDTTIIRGRCRTCSELTCPFGTSLGNEKRRCIYTSYFMGRRTLF  
IGCQPKCVRTVITRECCAGFFGPQCQPCPGNAQNVCFNGICLDGVNGTGVCECGEGFSG  
TACETCTEGKYGIHCDQACSCVHGRCNQGPLGDGSCDCDVGWRGVHCDNATTEDNCNGTC  
HTSANCLTNSDGTASCKCAAGFQNGTICTAINACEISNGGCSAKADCKRTTPGRRVCTC  
KAGYTGDGIVCLEINPCLENHGGCDKNAECTQTGPNQAACNCLPAYTGDGKVCTLINVCL  
TKNGGCSEFAICNHTGQVERTCTCKPNYIGDGFTCRGSIYQELPKNPKTSQYFFQLQEHF  
VKDLVGPGPFTVFAPLSAAFDDEEARVKDWDKYGLMPQVLRHVVACHQLLENLKLISNA  
TSLQGEPIVISVSQSTVYINNKAIISSDIISTNGIVHIIDKLLSPKNLLITPKDNSGRI  
LQNLTTLATNNGYIKFSNLIQDSGLLSVITDPIHTPVTLFWPTDQALHALPAEQQDFLN  
QDNKDKLKEYLKFBHVIDAKVLAVDLPTSTAWKTLQGSELSVKCGAGRDIGDLFLNGQTC  
RIVQRELLFDLGVAYGIDCLLIDPTLGGRCDTFTTFDASGEGSCVNTPSCPRWSKPKGV  
KQKCLYNLPFKRNLEGRERC SLVIQIPRCCKGYFRDCQACPGPDAPCNNRGVCLDQY  
SATGECKCNTGFNGTACEMCWPGRFPGDCLPCGCSDHGQCDDGITGSGQCLCETGWTGPS  
CDTQAVLPAVCTPPCSAHATCKENNTCECNLDYEGDITCTVVDFCKQDNGGCAKVARCS  
QKGTKVSCSCQKGYKGDGHSCTEIDPCADGLNGGCHEHATCKMTGPGKHKCECKSHYVGD  
GLNCEPEQLPIDRCLQDNGQCHADAKCVDLHFQDTTVGVFHLRSPLGQYKLTDFDKAREAC  
ANEAATMATYNQLSYAQKAKYHLC SAGWLETGRVAYPTAFASQNCGSGVVGIVDYGPRPN  
KSEMWDVFCYRMKDVNCTCKVGYVGDFSCSGNLLQVLSFSLTNFLTEVLAYSNSSAR  
GRAFLEHLTDLSIRGTLFVPQNSGLGENETLSGRDIEHHLANVSMFFYNDLVNGTTLQTR  
LGSKLLITASQDPLQPTETRFVDGRAILQWDIFASNGIIHVISRPLKAPPAPVTLTHTGL  
GAGIFFAIILVTGAVALAAYSIFRINRRTIGFQHFSEEDINVAALGKQQPENISNPLYE  
STTSAPPEPSYDPFTDSEERQLEGNDPLRTL

>sp|O95630|STABP\_HUMAN STAM-binding protein OS=Homo sapiens GN=STAMPB PE=1 SV=1  
MSDHGDVSLPPEDRVRLSQLGSAVEVNEDIPPRRYFRSGVEIIRMASIYSEEGNIEHAF  
ILYNKYITLFI EKLPKHRDYKSAVIEKKD TVKKLKEIAFPKAEELKAELLKRYTKEYTE  
YNEEKKKEAEELARNMAIQELEKEKQRVAQQKQQQLEQE QFHAF EEMIRNQELEKERLK  
IVQEF GKVPGLGGPLVPDLEKPSLDVFPTLTVSSI QPSDCHTTVRPAKPPVDRSLKPG  
ALSNSESIPTIDGLRHVVVPGRLCPQFLQLASANTARGVETCGILCGKLMRNEFTITHVL  
IPKQSAGSDYCNTENEELFLIQDQQLITLGWIHTHTPTQTAFLSSVDLHTHCSYQMMLP  
ESVAIVCSPKFQETGFFKLTDHGLEEISSCRQKGFHPHSDPPLFCSCSHVTVVDRAVTI

TDLR

>sp|Q96MF2|STAC3\_HUMAN SH3 and cysteine-rich domain-containing protein 3 OS=Homo sapiens  
GN=STAC3 PE=1 SV=1

MTEKEVLESPKPSFPAETRQSGLRKQLLRKSGTGKEMELPPEPQANGEAVGAGGGPI  
YYIYEEEEEEEEEEEEPPPEPKLVNDKPHKFKDHFHKKPKFCDVCARMIVLNNKFLRC  
KNCKTNIHEHCQSYVEMQRCFGKIPPGFHRAYSSPLYSNQYACVKDLAANRNDPVFET  
LRTGVIMANKERKKQADKKNPVAAMMEEEPESARPEEGKPQDGNPEGDKKAEKKTDDK  
HKQPGFQQSHYFVALYRFKALEKDDLDFPPGEKITVIDDSNEEWWRGKIGEKVGFPPNF  
IIRVRAGERVHRVTRSFVGNREIGQITLKKDQIVVQKGDEAGGYVKVYTGRKVGLFPTDF  
LEEI

>sp|Q8NE28|STKL1\_HUMAN Serine/threonine kinase-like domain-containing protein STKLD1  
OS=Homo sapiens GN=STKLD1 PE=2 SV=4

MLGPGSNRRRPTQGERGPGSPGEPMEKYQVLYQLNPGALGVNLVVEEMETKVKHVIKQVE  
CMDHYSQALEELMPLLLRHAHISVYQELFITWNGEISSLYLCLVMEFNELSFQEVIE  
DKRKAKKIIDSEWMQNVLGQVLDLEYLHHLDIHRNLKPSNIILISSDHCKLQDLSSNV  
LMTDKAKWNIRAEEDPFRKSWMAPEALNFSFSQKSDIWSLGCIIIDMTSCSFMDGTEAMH  
LRKSLRQSPGSLKAVLKTMEEKQIPDVETFRNLLPLMLQIDPSDRITIKDVVHITFLRGS  
FKSSCVSLTLHRQMPASITDMLLEGNVASILEVMQKFSGWPEVQLRAMKRLKMPADQL  
GLPWPELVEVVVTTMELHDRVLDVQLCACSLLLHLLGQALVHHPEAKAPCNQAITSLL  
SALQSHPEEEPLVMVYSLLAITTTQESLSEELQNAGLLEHILEHLNSSLKSRDVCAS  
GLGLLWALLLDGIIIVNKAPLEKVPDLISQVLATYPADGEMAEASCGVFWLLSLLGCIKEQ  
QFEQVVALLLQSIRLCQDRALLVNNAYRGLASLVKVSELAFAKVVVQEEGSGLSLIKET  
YQLHRDDPEVVENVGMLLVHLASYEEILPELVSSSMKALLQEIKERFTSSLVSDSSAFSK  
PGLPPGGSPQLGCTTSGGLE

>sp|Q15527|SURF2\_HUMAN Surfeit locus protein 2 OS=Homo sapiens GN=SURF2 PE=1 SV=3

MSELPDGVRAFLREHPSRLQTDARKVRCILTGHELPCLPELQVYTRGKKYQRLVRASP  
AFDYAEFEPHIVPSTKNPHQLFCKLTLRHINKCEHVLRHQTGRRYQALCKYECCQKQG  
VEYVPACLVHRRRRREDQMDGDGPRPREAFWEPTSSDEGGAASDDSMIDLYPELFTRKD  
LGSTEDGDGTDDFLTDKEDEKAKPPREKATDESRRETTIVYRGLVQKRGKKQLGSLKKKFK  
SHHRKPKSFSSCKQPG

>sp|Q8N4C7|STX19\_HUMAN Syntaxin-19 OS=Homo sapiens GN=STX19 PE=1 SV=1

MKDRLQELKQRTKEIELSRDSHVSTTETEEQGVFLQQAVIYEREPVAERHLHEIQKLQES  
INNADNVQKFGQQKSLVASMRRFSLLKRESTITKEIKIQA EYINRSLNDLVKEVKKSE  
VENGPSVVTRILKSQAAMFRHFQQIMFIYNDTIAAKQECKTFILRQLEVAGKEMSEE  
DVNDMLHQGKWEVFNESLLTEINITKAQLSEIEQRHKELVNLENQIKDLRDLFIQISLLV  
EEQGESINNIEMTVNSTKEYVNTKEKFLAVKYKKRNPCRVLCCWCCPCCSSK

>sp|Q13190|STX5\_HUMAN Syntaxin-5 OS=Homo sapiens GN=STX5 PE=1 SV=2

MIPRKRYGSKNTDQGVYLGSLKTQVLSPATAGSSSDIAPLPPVTLVPPPPDTMSCRDR  
TQEFLSACKSLQTRNGIQTNPALRAVRQRSEFTLMAKRIGKDLNNTFAKLEKLTILAK  
RKSLFDDKAVEIEELTYIIKQDINSLNKQIAQLQDFVRAKGSQSGRHLQTHSNTIVVSLQ  
SKLASMSNDFKSVLEVRTENLKQQRSRREQFSRAPVSALPLAPNHLGGGAVVLGAESHAS  
KDVAIDMMSRSTSQQLQLIDEQDSYIQSRADTMQNIESTIVELGSIFQQLAHMVKEQEET  
IQRIDENVLGAQLDVEAAHSEILKYFQSVTSNRWLMVKIFLILIVFFIIFVVFLA

>sp|Q96I99|SUCB2\_HUMAN Succinate--CoA ligase [GDP-forming] subunit beta, mitochondrial OS=Homo sapiens GN=SUCLG2 PE=1 SV=2

MASPVAAQAGKLLRALALRPRFLAAGSQAVQLTSRRWLNQLQEYQSKKLSMDNGVRVQRFF  
VADTANEALEAAKRLNAKEIVLKAQILAGGRGKGVFNSGLKGGVHLTKDPNVVGGQLAKQM  
IGYNLATKQTPKEGVKVNKVMVAEALDISRETYLAILMDRSCNGPVLVGSPQGGVDIEEV  
AASNPELIFKEQIDIFEGIKDSQAQRMAENLGFVGPLKSQAADQITKLYNLFLKIDATQV  
EVNPFGETPEGQVVCDAKINFDDNAEFRQKDIFAMDDKSENEPIEENAAKYDLKYIGLD  
GNIACFVNGAGLAMATCDIIFLNGGKPANFLDLGGGVKEAQVYQAFKLLTADPKVEAILV  
NIFGGIVNCAIIANGITKACRELELKVPLVVRLEGTNVQEAQKILNNSGLPITSAIDLED  
AAKKAVASVAKK

>sp|Q8IWZ8|SUGP1\_HUMAN SURP and G-patch domain-containing protein 1 OS=Homo sapiens GN=SUGP1 PE=1 SV=2

MSLKMDNRDVAGKANRWFGVAPPKSGKMNMNHLHQEELIAQKKREIEAKMEQKAKQNQVA  
SPQPPHPGEITNAHNSSCISNKFANDGSFLQQFLKLQKAQTSTDAPTSAPSAPPSTPTPS  
AGKRSLLSRRTGLGLASLPGPVKSYSHAKQLPVAHRPSVFQSPDEDEEEDYEQWLEIKV  
SPPEGAETRKYIEKLARFVAEGGPELEKVMEDYKDNPAFAFLHDKNSREFLYYRKKVAE  
IRKEAQKSQAASQKVSPPEDEEVKNLAEKLARFIADGGPEVETIALQNNRENQAFSFLYE  
PNSQGYKYRQKLEEFRKAKASSTGSFTAPDPLKRSPEALSGSLPPATTCPASSTPA  
PTIIPAPAAPGKPASAATVKKRKRSRWGPEEDKVELPPAELVQRDVDASPSPLSVQDLKG  
LGYEKGPVGLVGVELSDAQKKQLKEQQEMQMYDMIMQHGRAMQDMQLLWEKAVQQHQ  
HGYDSDEEVDSELGTWEHQLRRMEMDKTREWAEQLTKMGRGKHFIGDFLPPDELEKFMET  
FKALKEGREPDYSEYKEFKLTVENIGYQMLMKMGWKEGEGLGSEGQGIKNPVNKGTTTVD  
GAGFGIDRPAELSKEDDEYEAFRRMMLAYRFRPNPLNPRRPPY

>sp|Q06330|SUH\_HUMAN Recombining binding protein suppressor of hairless OS=Homo sapiens GN=RBPJ PE=1 SV=3

MDHTEGSPAEEPPAHAPSPGKFGERPFPKRLTREAMRNYLKERGDQTVLILHAKVAQKSY  
GNEKRFFCPPPCVYLMGSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGK  
NYCTAKTLYISDSDKRKHFMLSVKMFYGNSSDIGVFLSKRIKVISKPSKKKQSLKNADLC  
IASGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAFFIHLDDDESEGEFTVRDG  
YIHYGQTVKLVCSTGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDTMYLCL  
SQERIIQFQATPCPKEPNKEMINDGASWTIISTDKAEYTFYEGMGPVLAPVTPVPVVESL  
QLNGGGDVAMLELTGQNFTPNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVRQ  
PVQVPVTLVRNDGIIYSTSLTFTYTPEPGPRPHCSAAGAILRANSSQVPPNESNTNSEGS  
YTNASTNSTSVTSSTATVVS

>sp|Q8IWU6|SULF1\_HUMAN Extracellular sulfatase Sulf-1 OS=Homo sapiens GN=SULF1 PE=1 SV=1

MKYSCCALVLAVLGTELLGSLCSTVRSRFRGRIQKERKNIRPNIILVLTDDQDVELGSL  
QVMNKTRKIMEHGGATFINAFVTPMCCPSRSSMLTGKYVHNHNVYTNENCSSPSWQAM  
HEPRTFAVYLNNTGYRTAFFGKYLNEYNGSYIPPGWREWGLIKNSRFYNYTVCRNGIKE  
KHGFDYAKDYFTDLITNESINYFKMSKRMYPHRPVMVISHAAPHGPEDSAPQFSKLYPN  
ASQHITPSYNYAPNMDKHWMQYTGPMPLPIHMEFTNILQRKRLQTLMSVDDSVRLYNML  
VETGELENTYIIYTADHGYHIGQFGLVKGKSMYPYDFDIRVPFFIRGPSVEPGSIVPQIVL  
NIDLAPTILDIAGLDTTPDVDGKSVLKLDDPEKPGNRFRTNKKAKIWRDTFLVERGKFLR  
KKEESSKNIQQSNHLPKYERVKELCQQARYQTACEQPGQKWQCIEDTSGKLRIHKCKGPS  
DLLTVRQSTRNLYARGFHDKDKESCRESGYRASRSQRKSQRQFLRNQGTPKYKPRFVHT

RQTRSLSVFEFEIEYDINLEEEELQVLQPRNIAKRHDEGHKGPRDLQASSGGNRGRMLA  
DSSNAVGPPTTVRVTHKCFILPNDSIHCERELYQSARAWKDHKAYIDKEIEALQDKIKNL  
REVRGHLKRRRKPEECSCSKQSYNKEKGKQEKLSHLHPFKEAAQEVDSKLQLFKENN  
RRRKKERKEKRRQRKGEECSLPLGTCFTHDNNHWQTAPFWNLGSFCACTSSNNNTYWCLR  
TVNETHNFLCFEFATGFLEYFDMNTDPYQLTNTVHTVERGILNQLHVQLMELRSCQGYKQ  
CNPRPKNLDVGNKDGGSYDLHRGQLWDGWEG

>sp|P61956|SUMO2\_HUMAN Small ubiquitin-related modifier 2 OS=Homo sapiens GN=SUMO2 PE=1  
SV=3

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRF  
RFDGQPINETDTPAQLEMEDEDITIDVFQQQTGGVY

>sp|P51687|SUOX\_HUMAN Sulfite oxidase, mitochondrial OS=Homo sapiens GN=SUOX PE=1 SV=2

MLLLHRAVVLRLQQACRLKSIPSRICIQACSTNDSFQPQRPSLTFSGDNSSTQGWRVMGT  
LLGLGAVLAYQDHCRAAQESTHIYTKEEVSSTSPETGIWVTLGSEVFDVTEFVDLHPG  
GPSKMLAAGGPLEPFWALYAVHNQSHVRELLAQYKIGELNPEDKVAPTVEVSDPYADDP  
VRHPALKVNSQRPFNAEPPPELLTENYITPNPIFFTRNHLVPVNLDPDTRYLHVVGAPGG  
QSLSLSLDDLHNFPRIEITVTLCAGNRRSEMTQVKEVKGLEWRTGAISTARWAGARLCD  
VLAQAGHQLCETEAHVCFEGLDSDPTGTAYGASIPLARAMDPEAEVLLAYEMNGQPLPRD  
HGFPVRVVVPGVVGARHVKWLGRVSVQPEESYSHWQRRDYKGFSPVDWETVDFDSAPSI  
QELPVQSAITEPRDGETVESGEVTIKGYAWSGGGRAVIRVDVSLDGGGLTWQVAKLDGEEQ  
RPRKAWAWRLWQLKAPVPAGQKELNIVCKAVDDGYNVQPDTVAPIWNLRGVLSNAWHRVH  
VYVSP

>sp|M5A8F1|SUPYN\_HUMAN Suppressyn OS=Homo sapiens GN=ERVH48-1 PE=1 SV=1

MACIYPTTFYTSPLTKSLNMGISLTTILILSAVLLSTAAPPSCRECYQSLHYRGEMQQY  
FTYHTHIERSCYGNLIEECVESGKSYYKVKNLGVCGRNGAICPRGKQWLCFTKIGQWGV  
NTQVLEDIKREQIIAKAKASKPTTPENRPRHFHSFIQKL

>sp|O75486|SUPT3\_HUMAN Transcription initiation protein SPT3 homolog OS=Homo sapiens  
GN=SUPT3H PE=1 SV=2

MYSRGSQGRGTAEATANSPPPIAPSHSRVTFSLSTLHTLSPPPRPFPSVSRAAAQKPH  
HLHPHILLAGSAAVPPRVLKAEMNNTAASPMSTATSSSGRSTGKSISFATELQSMMSLG  
DARRPLHETAVLVEDVVHTQLINLLQAAEVSQLRGARVITPEDLLFLMRKDKKKLRLL  
KYMFIIRDYKSKIVKGIDEDDLLEDKLSGSNNANKRQKIAQDFLNSIDQTGELLAMFEDDE  
IDEVKQERMEARERQTRIMDSAQYAEFCESRQLSFSKKASKFRDWLDCSSMEIKPNVVAM  
EILAYLAYETVAQLVDLALLVRQDMVTKAGDPFSAISATFIQYHNSAESTAACGVEAHS  
DAIQPCHIREAIRRYSHRIGPLSPFTNAYRRNGMAFLAC

>sp|Q6UWL2|SUSD1\_HUMAN Sushi domain-containing protein 1 OS=Homo sapiens GN=SUSD1 PE=1  
SV=1

MGRGPWDAGPSRRLPLLLLLGLARGAAGAPGPDGLDVCATCHEHATCQQREGKKICICN  
YGFVGNGRQTQCDKNECQFGATLVCGNHTSCHNTPGGFYCICLEGYRATNNKTFIPNDG  
TFCTDIDECEVSLCRHGGRCVNTHGSFECYCMDGYLPRNGPEPFHPTTDATSCTEIDCG  
TPPEVPDGYIIGNYTSSLSQVRYACREGFVSVPEDTVSSCTGLGTWESPKLHCQEINCG  
NPPEMRHAILVGNHSSRLGGVARYVCQEGFESPGGKITSVCTEKGTTWRESTLTCTEILTK  
INDVSLFNDCVVRWQINSRRINPKISYVISIKGQRLDPMESVREETVNLTTDSRTPEVCL  
ALYPGTNYTVNISTAPRRSMPAVIGFQTAEDLLEDDGSFNISIFNETCLKNRRSRKV  
GSEHMYQFTVLGQRWYLANFSHATSFNFTTREQVPVVCCLDYPTTDYTVNVTLRSPKRH

SVQITITATPPAVKQTISNISGFNETCLRWSIKTADMEEMYLFHIWQQRWYQKEFAQEMT  
FNISSSSRDPEVCLDLRPGTNYNVSLRALSSELPVVISLTTQITEPPLPEVEFFTVMHRGP  
LPRLRLRKAKEKNGPISSYQVLVPLALQSTFSCDSEGASSFFSNASDADGYVAAELLAK  
DVPDDAMEIPIGDRLYYGEYYNAPLKRGSYCIILRITSEWNKVRRHSCAVWAQVKDSSL  
MLLQMAGVGLGSLAVVIILTFLSFSAV

>sp|Q96L08|SUSD3\_HUMAN Sushi domain-containing protein 3 OS=Homo sapiens GN=SUSD3 PE=2  
SV=1

MRWAAATLRGKARPRGRAGVTTAPGNRTGTCAKLRLPPQATFQVLRGNGASVGTVMFR  
CPSNHQMVGSGLLTCTWKGSIAEWSSGSPVCKLVPPHETFGFKVAVIASIVSCAIILLMS  
MAFLTCCLLKCVKKSRRRSNRSAQLWSQLKDEDETVQAAYLGLKHFNKPVSGPSQAHD  
NHSFTTDHGESTSKLASVTRSDVKDPGIPRALSLSGSSSSPQAQVMVHMANPRQPLPASG  
LATGMPQQPAAYALG

>sp|Q9H5I1|SUV92\_HUMAN Histone-lysine N-methyltransferase SUV39H2 OS=Homo sapiens  
GN=SUV39H2 PE=1 SV=2

MAAVGAEARGAWCPCLVSLDTLQELCRKEKLTCKSIGITKRNLNNYEVEYLCDYKVVKD  
MEYYLVKWKGWPDSTNTWEPLQNLKCPLLLQQFSNDKHNYLSQVKKGKAITPKDNNKTLK  
PAIAEYIVKKAKQRIALQRWQDELNRRKNHKGMIFFVENTVDLEGPPSDFYYINEYKPAPG  
ISLVNEATFGCSTDCFFQKCCPAEAGVLLAYNKNQQIKIPPGTPIYECNSRCQCGPDCP  
NRIVQKGTQYSLCIFRTSNGRGWGKTLVKIKRMSFVMEYVGEVITSEEAEERRGQFYDNK  
GITYLFDLDYESDEFTVDAARYGNVSHFVNHSCDPNLQVFNVFIDNLDTRLPRIALFSTR  
TINAGEELTFDYQMKGSGDISSDSIDHSPAKKRVRTVCKCGAVTCRGYLN

>sp|Q15022|SUZ12\_HUMAN Polycomb protein SUZ12 OS=Homo sapiens GN=SUZ12 PE=1 SV=3

MAPQKHGGGGGGSGPSAGSGGGGFGGSAAVAAATASGGKSGGGSCGGGGSYSASSSSSA  
AAAAGAAVLPVKPKMEHVQADHELFLQAF EKPTQIYRFLRTRNLIAPIFLHRTLTYMSH  
RNSRTNIKRKTKFVDDMLSKVEKMKGEQESHLSAHLQLTFTGFFHKNDKPSPNEQEN  
SVTLEVLLVKVCHKKRKDVSCPIRQVPTGKKQVPLNPDNLNQTGPGNFPSLAVSSNEFEP  
NSHMVKSYSLLFRVTRPGRREFNGMINGETNENIDVNEELPARRKRNREDGEKTFVAQMT  
VFDKNRRLQLLDGEYEVAMQEME ECPISKKRATWETILDGKRLPPFETFSQGPTLQFTLR  
WTGETNDKSTAPIAKPLATRNSESLHQENKPGSVKPTQTIAVKESLTTDLQTRKEKDTPN  
ENRQKLRIFYQFLYNNNTRQQTEARDDLHCPWCTLNCRKLYSLKHLKLCHSRFIFNYVY  
HPKGARIDVSINECYDGSYAGNPQDIHRQPGFAFSRNGPVKRTPIITHILVCRPKRTKASM  
SEFLESEDGEVEQQRTYSSGHNRLYFHS DTCPLRPQEMEVDSEDEKDPEWLREKTITQI  
EEFSDVNEGEKEVMKLWNLHVMKHGFIADNQMNHACMLFVENYGQKIIKKNLCRNFMHL  
VSMHDFNLISIMSIDKAVTKLREMQQKLEKGESASPANEEITEEQNGTANGFSEINSKEK  
ALETDSVSGVSKQSKKQKL

>sp|Q7L1I2|SV2B\_HUMAN Synaptic vesicle glycoprotein 2B OS=Homo sapiens GN=SV2B PE=1 SV=1

MDDYKYQDNYYGYAPSDGYRGNESNPEEDAQSDVTEGHDEDEIYEGEYQGIPHDDVK  
AKQAKMAPSRMDSL RGQTDLMAERLEDEEQLAHQYETIMDECGHGRFQWILFFVLGLALM  
ADGVEVFVVSFALPSAEKDMCLSSSKGMLGMIVYLGMMAGAFILGGLADKLGRKRVLSM  
SLAVNASFASLSSSFQYGAF LFCRLISGIGIGGALPIVFAYFSEFLSREKRGEHLSWL  
IFWMTGGLYASAMAWSIIPHYGWGFSMGTYHFHSWRVFVIVCALPCTVSMVALKFMPE  
PRFLEMKGKHDEAWMILKQVHDTNMRAKGTPEKVFTVSNIKTPKQMD E FIEIQSSTGTWY  
QRWLVRFKTIFKQVWDNALCYMGPYRMNTLILAVVWFAMAFSYYGLTVWFPDMIRYFQD  
EEYKSKMKVFFGEHVYGATINFTMENQIHQHGKLVNDKFTRMYFKHVL FEDTFFDECYFE

DVTSTDITYFKNCTIESTIFYNTDLYEHKFINCRFINSTFLEQKEGCHMDLEQDNDFLIYL  
VSFLGSLSVLPGNIISALLMDRIGRLKMIGGSMLISAVCCFFLFFGNSESAMIGWQCLFC  
GTSIAAWNALDVITVELYPTNQRAFTAFGILNGLCKFGAILGNTIFASFVGITKVPILLA  
AASLVGGGLIALRLPETREQVLM

>sp|A6NEL2|SWAHB\_HUMAN Ankyrin repeat domain-containing protein SOWAHB OS=Homo sapiens  
GN=SOWAHB PE=1 SV=1

MARELSQEALLDFLCQAGGRVTNAALLSHFKSFLRDPDASPSQHHRRELFKGFVNSVAA  
VRQDPDGTKYVVLKRRYRDLLGEEGLQRPREPPAAAPSAGGAAPCSPRGARRGEPPQQP  
RRRRREKEPEEPPAGAAAARAADAACNGLPGSDSRRAPGKGGGSKGSPGQRPVPAAAAAG  
AQARASCAAATQGRCCWECLQNNLAVLPGELGALPHSATAEEKPARALPAQDDRGASRE  
REEGALAEPAPVPAVAHSPATVEAATSASPPALLPGPAPRGDRPELLTPSSLHYSTLQ  
QQQQRTEWVARHPQVPEARDQGPRAWVLPDNFLQLPLEPGSTEPNSEPPDPCLSSHS  
LFPVVPDESWEWAGNPSLTVFRSIRCQLSLQDLDDFVDQESDGSEESSSGPKDSPGASE  
EGLQVVLGTPDRGKLRNPAGGLSVSRKEGSPSRSPQGLRNRGDGHISQQVPAGANGLAGH  
PLKPLPWPVKLRRLRSSLAGRAKLSSSDEEYLDEGLLKRSRRPPRSRKPSKAGTAPS  
PRVDAGLSLKLAEVKAVVAERGWRHSLWVPSGEGSAALAPHRTSEHKSSLVPLDAREHEW  
IVKLASGSKIQVWTLFWEDPQLALHKDFLTGYTALHWIAKHGDLRALQDLVSGAKKAGIV  
LDVNVRS SCGYTPLHLAAIHGHQGVIKLLVQRLASRVNVRDSSGKKPWYLTSTNTSGEITW  
QLLGAPRGKPIFPVYPLVGSSSPTRKAKSKEISRSVTRKTSFAALLKSQHKNWKLANQYE  
KFHSREREREYS

>sp|O95926|SYF2\_HUMAN Pre-mRNA-splicing factor SYF2 OS=Homo sapiens GN=SYF2 PE=1 SV=1  
MAAIAASEVLVDSAEESGLAAAAELAAQKREQRLRKFRHLHMRNEARKLNHQEVVEEDK  
RLKLPANWEAKKARLEWELKEEEKKKECAARGEDYEKVKLLEISAEDAERWERKKKRNK  
DLGFSDYAAAQLRQYHRLTKQIKPDMETYERLREKHGEEFFPTSNSLLHGTHVPSTEEID  
RMVIDLEKQIEKRDKYSRRRPYNDADIDYINERNAKFNKKAERFYGKYTAETKQNLERG  
TAV

>sp|P49590|SYHM\_HUMAN Probable histidine--tRNA ligase, mitochondrial OS=Homo sapiens  
GN=HARS2 PE=1 SV=1

MPLLGLLPRRAWASLLSQLLRPPCASCTGAVRCQSQVAEAVLTSQLKAHQEKPNFIKTP  
KGTRDLSPQHMMVREKILDLVISCFRKHGAKGMDTPAFELKETLTEKYGEDSGLMYDLKD  
QGGELLSRLYDLTPFARYLAMNKVKMKRYHVGVWRRESPTIVQGRYREFCQCDFDIA  
GQFDPMPDAECLKIMCEILSGLQLGDFLIKVNDRRIVDGMFAVCGVPESKFRAICSSID  
KLDKMAWKDVRHEMVVKGLAPEVADRIGDYVQCHGGVSLVEQMFQDPRLSQNKQALEGL  
GDLKLLFEYLTFLGIADKISFDLSLARGLDYYTGVIYEAVLLQTPTQAGEEPLNVGVSAA  
GGRYDGLVGMFDPKGHKVCVGLSIGVERIFYVEQRMKTGKEKVRTTETQVFVATPQKN  
FLQERLKLIAELWDSGIKAEMLYKNNPKLLTQLHYCESTGIPLVVIIGEQLKEGVKIR  
SVASREEVAIKRENFAEIQKRLSES

>sp|Q69YW2|STUM\_HUMAN Protein stum homolog OS=Homo sapiens GN=STUM PE=2 SV=1  
MEPSHKDAETAAAAAATAADPRGASSSSGVVVQVREKKGPLRAAIPYMPFPVAVICLFL  
NTFVPLGLTFVSAFTVLCGARTDLPDRHVCCVFWLNIAAALIQILTAIVMGWIMSIFWG  
MDMVILAIISQGYKEQGIPQQL

>sp|O14662|STX16\_HUMAN Syntaxin-16 OS=Homo sapiens GN=STX16 PE=1 SV=3  
MATRRLTDAFLLLRNNSIQNRQLLAEQVSSHITSSPLHSRSIAAELDELADDRMALVSGI  
SLDPEAAIGVTKRPPPKWVDGVDEIQYDVGRKQKMKELASLHDKHLNRPTLDDSSSEEH

AIEITTQEITQLFHRCQRAVQALPSRARACSEQEGRLGNVVASLAQALQELSTSFRHAQ  
SGYLKRMKNREERSQHFFDTSVPLMDDGDDNTLYHRGFTEDQLVLEQNTLMVEEREREI  
RQIVQSISDLNEIFRDLGAMIVEQGTVLDRIDYNEQSCIKTEDGLKQLHKAQEQYQKKNR  
KMLVILILFVIIIVLIVVLVGKSR

>sp|P61764|STXB1\_HUMAN Syntaxin-binding protein 1 OS=Homo sapiens GN=STXBP1 PE=1 SV=1

MAPIGLKAVVGEKIMHDVIKKVKKKGEWKVLVVDQLSMRMLSSCCKMTDIMTEGITIVED  
INKRREPLPSLEAVYLITPSEKSVHSLISDFKDPPTAKYRAAHVFFTDSCPDALFNELVK  
SRAAKVIKTLTEINIAFLPYESQVYSLDSADSFQSFYSPHKAQMKNPILERLAEQIATLC  
ATLKEYPAVRYRGEYKDNALLAQLIQDKLDAYKADDPMTGEGPDKARSQLLILDRGFDPS  
SPVLHELTFQAMSYDLLPIENDVYKYETSGIGEARVKEVLLDEDDDLWIALRHKHIAEVS  
QEVTRSLKDFSSSKRMNTGEKTTMRDLSQMLKKMPQYQKELSKYSTHLHLAEDCMKHYQG  
TVDKLCRVEQDLAMGTDAEGEIKDPMRAIVPILLDANVSTYDKIRIILLYIFLKNNGITE  
ENLNKLIQHAQIPPEDSEIITNMAHLGVPIVTDSTLRRRSKPERKERISEQTYQLSRWTP  
IIKDIMEDTIEDKLDTKHYPYISTRSSASFSTAVSARYGHWKKNKAPGEYRSGPRLIIF  
ILGGVSLNEMRCAYEVTQANGKWEVLIGSTHILTPQKLLDTLKKLNKTDEEISS

>sp|Q15833|STXB2\_HUMAN Syntaxin-binding protein 2 OS=Homo sapiens GN=STXBP2 PE=1 SV=2

MAPSGLKAVVGEKILSGVIRS VKDGEWKVLIMDHPSMRILSSCCKMSDILAEGITIVED  
INKRREPIPSLEAIYLLSPTEKSVQALIKDFQGTPTFTYKAAHIFFTDTCPEPLFSELGR  
SRLAKVVKTLKEIHLAFLPYEAQVFSLDAPHSTYNLYCPFRAEERTRQLEVLAQQIATLC  
ATLQEYPAIRYRKGPEDTAQLAHAVLAKLNAFKADTPSLGEGPEKTRSQLLIMDRAADPV  
SPLLHELTFQAMAYDLLDIEQDTRYRYETGLSEAREKAVLLDEDDDLWVELRHMHIADVS  
KKVTELLRTFCESKRLTTDKANIKDLSQILKKMPQYQKELNKYSTHLHLADDCMKHFKGS  
VEKLC SVEQDLAMGSDAEGEIKDSMKLIVPVLLDAVPAYDKIRVLLLYILLRNGVSEE  
NLAKLIQHANVQAHS SLIRNLEQLGGTVTNPGSGTSSRLEPRERMEPTYQLSRWTPVIK  
DVME DAVEDRLDRNLWPFVSDPAPTASSQA AVSARFGHWHKNKAGIEARAGPRLIVYVMG  
GVAMSEMRAAYEVTRATEGKWEVLIGSSHILTPTRFLDDLKALDKKLEDIALP

>sp|O94901|SUN1\_HUMAN SUN domain-containing protein 1 OS=Homo sapiens GN=SUN1 PE=1 SV=3

MDFSRLHMYSPQCVPENTGYTYALSSSYSSDALDFETEHKLDPVFDSRMSRRSLRLAT  
TACTLGDGEAVGADSGTSSAVSLKNRAARTTKQRRSTNKSASF SINHVS RQVTSSGVSHGG  
TVSLQDAVTRRPPVLDESWIREQTVDHFWGLDDDGLKGGNKAAIQNGDVGAAAATAH  
NGFSCSNCSMLSERKDVLT AHPAAGPVS RVYSRDRNQKCDCKGKRHLDAHPGRAGTLW  
HIWACAGYFLLQILRRIGAVGQAVSR TAWSALW LAVVAPGKAASGVFWWL GIGWYQFVTL  
ISWLN VFLLTRCLRNICKFLVLLIPLFLLAGLSLRGQGNFFSFLPVLNWASMHRTQRVD  
DPQDVFKPTTSRLKQPLQGDSEAFPWHWMSGVEQQVASLSGQCHHHGENLRELTTLQKL  
QARVDQMEGGAAGPSASVRDAVGQPPRETDFMAFHQEHEVRMSHLEDILGKLREKSEATQ  
KELEQTKQKTISAVGEQLLPTVEHLQLELDQLKSELSSWRHVKTGCETVDAVQERVDVQV  
REMVKLLFSEDQGGGSLEQLLQRFSSQFVSKGDLQTMLRDLQLQILRNVT HHVSVTKQLP  
TSEAVVS AVSEAGASGITEAQA RAIVNSALKLYSQDKTGMVDFALESGGGSILSTRCSET  
YETKTALMSLFGIPLWYFSQSPRVVIQPD IYPGNCWAFKGSQGYLVVRLSMMIHPAAFTL  
EHIPKTL SPTGNISSAPKDFAVYGLENEYQEEGQLLGQFTYDQDGESLQMFQALKRPDDT  
AFQIVELRIFSNWGHPEYTCLYRFRVHGEPVK

>sp|O15260|SURF4\_HUMAN Surfeit locus protein 4 OS=Homo sapiens GN=SURF4 PE=1 SV=3

MGQNDLMGTAEDFADQFLRVTKQYLP HVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWN  
CGYLLASSFVFLNLLGQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRN

LALGGGLLLLLAESRSEKSMFAGVPTMRESSPKQYMLGGRVLLVLMFMTLLHFDASFF  
SIVQNIVGTALMILVAIGFKTKLAALTLVVWLFAINVYFNAFWTIPVYKPMHDFLKYDFF  
QTMSVIGGLLLVVALGPGGVSMDEKKKEW

>sp|043463|SUV91\_HUMAN Histone-lysine N-methyltransferase SUV39H1 OS=Homo sapiens  
GN=SUV39H1 PE=1 SV=1

MAENLKGCSVCKSSWNQLQDLCLAKLSCPALGISKRNYDFEVEYLCDYKKIREQEYY  
LVKWRGYPDSESTWEPRQNLKCVRLKQFHKDLERELLRRHRSKTPRHLDPSLANYLQ  
KAKQRRALRRWEQELNAKRSHLGRITVENEVDLDGPPRAFFVYINEYRVGEGITLNQVAVG  
CECQDCLWAPTGGCCPGASLHKFAYNDQGGVRLRAGLP IECNSRCRCGYDCPNRVVQKG  
IRYDLCIFRTDDGRGWGVRTLEKIRKNSFVMEYVGEIITSEEAERRGQIYDRQGATYLF  
LDYVEDVYTVDAAYYGNISHFVNHSCDNLQVYNVFIIDNLDERLPRIAFFATRTIRAGEE  
LTFDYNMQVDPVDMESTRMDSNFGLAGLPGSPKKRVRIECKCGTESCRKYL

>sp|Q8N4V2|SVOP\_HUMAN Synaptic vesicle 2-related protein OS=Homo sapiens GN=SVOP PE=2  
SV=1

MEEDLFQLRQLPVVKFRRTGESARSEDSTASGEHEVQIEGVHVGLEAVELDDGAAPKEF  
ANPTDDTFMVEDAVEAIGFGKFQWKL SVLTGLAWMADAMEMMILSILAPQLHCEWRLPSW  
QVALLTSVVFGMMSSSTLWGNISDQYGRKTGLKISVLWTLYYGILSAFAPVYSWILVLR  
GLVGFGIGGVPQSVTLAEFLPMKARAKCILLIEVFWAIGTVFEVVLAVFVMPSLGWRWL  
LILSAVPLLLFAVLCFWLPESARYDVLSGNQEKAIATLKRIATENGAPMPLGKLIISRQE  
DRGKMRDLFTPHFRWTTLLWFIWFSNAFSYYGLVLLTTELFQAGDVCGISSRKKAVEAK  
CSLACEYLSEEDYMDLLWTTLSEFPGVLVTLWIIDRLGRKKTMAFCVIFSFCSLLLFIC  
VGRNVLTLLFIARAFISGGFQAAYVYTPEVYPTATRALGLGTCSGMARVGALITPFIAQ  
VMLESSVYLTAVYSGCCLLAALASCFLPIETKGRGLQESSHREWGQEMVGRGMHGAGVT  
RSNSGSQE

>sp|Q2M3V2|SWAHA\_HUMAN Ankyrin repeat domain-containing protein SOWAHA OS=Homo sapiens  
GN=SOWAHA PE=1 SV=3

MALAAAAAAAAGVSQA AVLGLQEHGGKVRNSELRSRFKPLLDAGDPRGRAARRDRFKQ  
FVNNVAVVKELDGKVFVLRKKPRPEPEPAPFGPPGAAAQPSKPTSTVLPRSASAPGAP  
PLVRVPRPVEPPDGLPTPEQDTPGGPASEPAQPPGERSADPPLPALELAQATERPSAD  
AAPPAPRAPSEAAPSCSDPPDAEPGPGAAGPPQKPCMLPVRCVPAPATLRLRAEELGLR  
RQLSEEPSRSSPLLLRRLSVEESGLGLGLGPRSPHLRRLSRAGPRLSPDAEELPAAP  
PPSAVPLEPSEHEWLVRTAGGRWTHQLHGLLLRDRGLAAKRFMSGFTALHWAASKGDGE  
MALQLVEVARRSGAPVDVNARSHGGYTPLHLAALHGHEDAAVLLVVRLGAQVHVRDHSGR  
RAYQYLRPGSSYALRRLGDPGLRGTTPEPDATGGGSGSLAARRPVQVAATILSSTSAFL  
GVLADDLMLQDLARGLKKSSFSKFLSASPMAPRKTKIRGGLPAFSEISRRPTPGPLAG  
LVPSFPPTT

>sp|A6NDD5|SYN1L\_HUMAN Synapse differentiation-inducing gene protein 1-like OS=Homo  
sapiens GN=SYNDIG1L PE=3 SV=1

MESLSELQNPLLPRSPAHLHGYPYPETPPSWSCQEKLYSYLLGGAGPAGAHQLLDPGSL  
QLAVEAWYRPSCLLGRDKVKEPRAGSCETSFTEDREPQEGPPEQPTGPGQAENVTIQTV  
SYGVQEELRDQEDDQEEEESDATSTESESEDNFLTLPDRHLGLTLFSMLCCFWPLGIAA  
FYFSQGTSKAISKGDFRLASTTSRRALFLATLAIAGAGLYVAVVVALAAYMSQNGHG

>sp|Q9H7C4|SYNCI\_HUMAN Syncoilin OS=Homo sapiens GN=SYNC PE=1 SV=3  
MASPEPRRGDGAQAARKTRVEANSPLPKNSGSLNEAEALNPEVTLSSGSLNLEDILY



LEDTGDLDETLVYQETEKAAEALYIEEAMQPDEALHVEEPCNPETVCVEETTEPDRIQF  
VEGPVEPGKPTSPEHVVEGETVTRAESNPESLRAEQSPSMEENLSIEDLELLEGRFQ  
QCVQAVAAQLEERDQLIHELVLREPALQEVQQVHQDILAAAYKLHAQAEERDGLREETR  
LVKQKLFKVTKECVAYQYQLECRQQDVAQFADFREVLTTRATQLSEELAQLRDAYQKQKE  
QLRQQLEAPPSQRDGHFLQESRRLSAQFENLMAESRQDLEEEYEPQFLRLLERKEAGTKA  
LQRTQAEIQEMKEALRPLQAEARQLRLQNRNLEDQIALVRQKRDEEVQQYREQLEEMEER  
QRQLRNGVQLQQQKNKEMEQLRLSLAEELSTYKAMLLPKSLEQADAPTSQAGGMETQSQG  
AV

>sp|P60508|SYCY2\_HUMAN Syncytin-2 OS=Homo sapiens GN=ERVFRD-1 PE=1 SV=1

MGLLLLVLILTPSLAAYRHPDFP LLEKAQQLQSTGSPYSTNCWLCTSSSTETPGTAYPA  
SPREWTSIEAELHISYRWDPNLKLMPANSLSTVKQDFPDIRQKPPIFGPIFTNINLM  
GIAPICVMAKRKNGTNVGTLPSTVCNVTFTVDSNQQTYYTYTHNQFRHQPRFPKPPNITF  
PQGTL LDKSSRFCQGRPSSCSTRNFWFRPADYNCLQISNLSSTA EWVLLDQTRNSL FWE  
NKTGKANQSQTPCVQVLGMTIATSYLGISAVSEFFGTSLTPLFHFHISTCLKTQGAFYI  
CGQSIHQCLPSNWTGTCTIGYVTPDIFIAPGNLSLPIPIYGNSPLPRVRAIHFIPLLAG  
LGILAGTGTGIAGITKASLTYSQLSKEIANNIDTMAKALTTMQEQIDSLAAVVLQNRRL  
DMLTAAQGGICLALDEKCCFWNQSGKVQDNIRQLLNQASSLRERATQGWLNWEGTWKWF  
SWVPLPTGLPLVSLLLLLLFGPCLLNLTQFVSSRLQAIKLQTNLSAGRHPRN IQESPF

>sp|P12081|SYHC\_HUMAN Histidine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=HARS PE=1  
SV=2

MAERAALEELVKLQGERVRGLKQKASAE LIEEEVAKLLKLKAQLGPDESKQKFVLKTPK  
GTRDYSPRQMAVREKVFDV I IRCFKRHGAEV IDTPVFELKETLMGKYGEDSKLIYDLKDQ  
GGELLSLRYDLTPVFARYLAMNKL TNIKRYHI AKVYRRDN PAMTRGRYREFYQCDFDIAG  
NFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICGVSDSKFRTICSSVDK  
LDKVSWE EVKNEMVGEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDPKLSQNKQALEGLG  
DLKLLFEYLTFLGIDDKISFDLSLARGLDYYTGV IYEAVLLQTPAQAGEEPLGVGSVAAG  
GRYDGLVGMFDPKGRKVP CVGLSIGVERIFSIVEQRLEALEEKIRT TETQVLVASAQKKL  
LEERLKL VSELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPLVAI IGEQELKDGVIK LRS  
VTSREEVDVRREDLVEEIKRRTGQPLCIC

>sp|Q9NSE4|SYIM\_HUMAN Isoleucine--tRNA ligase, mitochondrial OS=Homo sapiens GN=IARS2  
PE=1 SV=2

MRWGLRPRGPGAAALATARSLWGT PRLPCSPGWQGATKRLLVRSVSGASNHPNSNSGRY  
RDTVLLPQTSFPMKLLGRQQPDTELEIQKCGFSELYSWQREKVKTEFCLHDGPPYANG  
DPHVGHALNKILKD IANRFHMMNGSKIHFVPGWDCHGLPIEIKVLS ELGREAQNLSAMEI  
RKKARSFAKAAIEKQKSAFIRWGIMADWNNCY YTFDGKYEAKQLRTFYQMYDKGLVYRSY  
KPVFWSPSSRTALAEAELEYNPEHVSRSIYVKFPLLKPSPKLASLIDGSSPVSILVWTTQ  
PWTIPANEAVCYMPESKYAVVKCSKSGDLYVLAADKVASVASTLETTFETISTLSGVDLE  
NGTCSHPLIPDKASPLL PANHVTMAKGTGLVHTAPAHGMEDYGVASQHNLPMDCLVDEDG  
VFTDVAGPELQNKAVLEEGTDVVIKMLQTAKNLLKEEKL VHSYPYDWRTKKPVVIRASKQ  
WFINITDIKTA AKELLKKVKFIPGSALNGM VEMMDRRPYWCISRQRVWGVP IPVFHHKTK  
DEYLINSQTTEHIVKLVEQHGS DIWWTL PPEQLLPKEVLSEVGGPDALEYVPGQDILDIW  
FDSGTSWSYVLP GPDQRADLYLEGKDLGGWFQSSLLTSVAARKRAPYKTVIVHGFTLGE  
KGEKMSKSLGNV IHPDVVVNGGDQSKPEPPYGADVLRWWWADSNVFTEVAIGPSVLNAAR  
DDISKLRNTLRFLLGNVADFPETDSIPVNDMYVIDQYMLHLLQDLANKITELYKQYDFG

KVVRLRLRTFYTRELSNFYFSI IKDRLYCEKENDPKRRSCQTALVEILDVIVRSFAPILPH  
LAEEVFQHIPYIKEPKSVFRTGWISTSSIWKKPGLEEAVESACAMRDSFLGSI PGKNAAE  
YKVITVIEPGLLFEI IEMLQSEETSSTSQLNELMMASESTLLAQEPREMTADVIELKGKF  
LINLEGGDIREESSYKVI VMPPTKEKCPRCWKYTAESSDTLCPRCAEVVSGK

>sp|P17600|SYN1\_HUMAN Synapsin-1 OS=Homo sapiens GN=SYN1 PE=1 SV=3

MNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPGAHSPGATPGPGTATAERSSGVAPA  
ASPAAPSPGSSGGGGFFSSLSNAVKQTAAAAATFSEQVGGGSGGAGRGGGAASRVLLVID  
EPHTDWAKYFKGKKIHGEIDIKVEQAEFSDLNLVAHANGGFSVDMEVLRNGVKVVRSLKP  
DFVLIRQHAFSMARNGDYRSLVIGLQYAGIPSVNSLHSVNFCDKPWVFAQMVRLHKKLG  
TEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKVVDNQHDFQDIASVVALTKT  
YATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKNTNGSAMLEQIAMSDRYKLWVDT  
SEIFGGLDICAVEALHGKDGDRDHIIEVVGSSMPLIGDHQDEDKQLIVELVVNMQALPR  
QRQRDASPGRSGHGQTPSPGALPLGRQTSQQPAGPPAQQRPPPGGGPPQPGPGPQRQGPP  
LQQRPPPGGQHL SGLGPPAGSPLPQRLPSPTSAPQQPASQAAPPTQGQGRQSRPVAGGP  
GAPPAARPPASPSRQAGPPQATRQTSVSGPAPPKASGAPPGGQQRQGPQKPPGPAGP  
TRQASQAGVPVPTGPPTTQQRPSGPGPAGRPKPQLAQKPSQDVPPPATAAAGGPPHPQL  
NKSQSLTNAFNLPEPAPPRPSLSQDEVKAETIRSLRKSFA SLFSD

>sp|O14994|SYN3\_HUMAN Synapsin-3 OS=Homo sapiens GN=SYN3 PE=1 SV=2

MNFLRRRLSDSSFMANLPNGYMTDLQRPDSSTSSPASPAMERRHPQPLAASFSSPGSSLF  
SSLSSAMKQAPQATSGLEPPGPSTPIVQRPRILLVIDDAHTWSKYFHGKKVNGEIEIR  
VEQAEFSELNLAAYVTGGCMVDMQVVRNGTKVVSRSFKPDFILVRQHAYSMALGEDYRSL  
VIGLQYGGLPVNSLYSVYNFCSKPWVFSQLIKIFHSLGPEKFPLVEQTFFPNHKPMVTA  
PHFPVVVKLGHAHAGMGKIKVENQLDFQDITSVVAMAKTYATTEAFIDSKYDIRIQIGS  
NYKAYMRTSISGNWKANTGSAMLEQVAMTERYRLWVDSCEMFGGLDICA VKAVHSDKDGR  
DYIIEVMDSSMPLIGEHVEEDRQLMADLVVSKMSQLPMPGGTAPSPLRPWAPQIKSAKSP  
GQAQLGPQLGQPQRPPPPQGGPRQAQSPQQRSGSPSQRLSPQGGQPLSPQSGSPQQR  
SPGSPQLSRASSGSSPNQASKPGATLASQPRPPVQGRSTSQQGEESKKPAPPHPLNKSQ  
SLTNSLSTSDTSQRGTPSEDEAKAETIRNLRKSFA SLFSD

>sp|Q9H987|SYP2L\_HUMAN Synaptopodin 2-like protein OS=Homo sapiens GN=SYNP02L PE=2 SV=3

MGAEEEVLVTLSGGAPWGFRLHGGAEQRKPLQVSKIRRRSQAGRAGLRERDQLLAINGVS  
CTNLSHASAMSLIDASGNQLVLTVQRLADEGPVQSPSPHELQVLSPLSPLSPEPPGAPVP  
QPLQPGSLRSPDSEAYYGETSDADGPATQEKPRRPRRRGPTRPTPPGAPPDEVYLSDS  
PAEPAPTIPGPPSQGDSRVSSPSWEDGAALQPPPAEALLPHGPLRPGPHLIPMVGVPVPH  
PVAEDLTTTYTQKAKQAKLQRAESLQEKSIKAKTKCRTIASLLTAAPNPHSKGVL MFKK  
RRQRAKKYTLVSFGAAAGTGAEEDGVPPTSESELDEEAFSDARSLTNQSDWDSPLYDME  
LARAGSRASEGQSGLGGLSEVSGRGVQLFEQQRQADSSTQELARVEPAAMLNGLGLQ  
SPPRAQSAPPEAAVLPPSPLPAPVASPRPFQPGGGAPTAPSI FNRSARPTPGLQGQRP  
TTTSVIFRPLAPKRANDSLGGLSPAPPPFLSSQGPTPLPSFTSGVPSHAPVSGSPSTPRS  
SGPVTATSSLYIPASRPVTPGGAPEPPAPPSAAAMTSTASIFLSAPLRPSARPEAPAG  
PGAPEPPSAREQRISVPAARTGILQEARRRGTRKQMFPGKEETKNSPNPELLSLVQNLD  
EKPRAGGAESGPEEDALSLGAEACNFMQPVGARSYKTLPHVTPKTPPPMAPKTPPPMTPK  
TPPPVAPKPPSRGLLDGLVNGAASSAGIPEPPRLQGRGGELFAKRQSRADRYVVEGTPGP  
GLGPRPRSPSPTPSLPPSWKYSNIRAPPP IAYNPLLSPPFPQAARTLPKAQSQGPRATP  
KQGIKALDFMRHPYQLKTAMFCFDEVPTPGPIASGSPKTARVQEIRRFSTPAPQPTAE

PLAPTVLAPRAATTLDEPIWRTELASAPVSPAPPPEAPRGLGASPSSCGFQVARPRFSA  
TRTGLQAHVWRPGAGHQ

>sp|Q8NFQ8|TOIP2\_HUMAN Torsin-1A-interacting protein 2 OS=Homo sapiens GN=TOR1AIP2 PE=1  
SV=1

MADSGLREPQEDSQKDLENDPSVNSQAQETTIIASNAEEAEILHSACGLSKDHQEVETEG  
PESADTGDKSESPDEANVGKHPKDKTEDENKQSFLDGGKGHHLPSENLGKEPLDPDP SHS  
PSDKVGRADAHLGSSSVALPKEASDGTGASQEPPTTDSQEAQSPGHSSAGQEGEDTLRRR  
LLAPEAGSHPQQTQKLEEIKENAQDTMRQINKKGFWSYGPVILVVLVAVVASSVNSYYS  
SPAQQVPKNPALEAFLAQFSQLEDKFPQGSSFLWQRGRKFLQKHLNASNPTEPATIIIFTA  
AREGRETLKCLSHHVADAYTSSQKVSPIQIDGAGRTWQSDTVKLLVDLELSYGFENGQK  
AAVVHHFESFPAGSTLIFYKYCDHENA AFKDVALVLTVLLEEETLEASVGPREETEEKVRD  
LLWAKFTNSDTPTSFNHMSDKLSGLWSRISHLVLPVQPVSSIEEQCLF

>sp|Q15785|TOM34\_HUMAN Mitochondrial import receptor subunit TOM34 OS=Homo sapiens  
GN=TOMM34 PE=1 SV=2

MAPKFPDSVEELRAAGNESFRNGQYAEASALYGRALRVLQAQGSSDPEEESVLYSNRAAC  
HLKDGNCRDCIKDCTSALALVPFSIKPLRRASAYEAEKYP MAYVDYKTVLQIDDNVTS  
AVEGINRMTRALMDSLGP EWRLKLPSIPLVPVSAQKRWNSLPSENHKEMAKSKSKETTAT  
KNRVPSAGDVEKARVLKEEGNELVKKGNHKKAIEKYSESLCSNLESATYSNRALCYLVL  
KQYTEAVKDCTEALKLDGKNVKA FYRRAQAHKALKDYKSSFADISNLLQIEPRNGPAQKL  
RQEVKQNLH

>sp|Q9NS56|TOPRS\_HUMAN E3 ubiquitin-protein ligase Topors OS=Homo sapiens GN=TOPORS PE=1  
SV=1

MGSQPPLGSPLSREEGEAPPPAPASEGRRRSRRVRLRGSCRHRPSFLGCRELAASAPARP  
APASSEIMASAAKEFKMDNFSPKAGTSKLQQTPADASPD SKCPICLDRFDNVSYLDRCL  
HKFCFRVCVQEWSKNAECPLCKQPFDSIFHSVRAEDDFKEYVLRPSYNGSFVTPDRRFY  
RTTLTRERNASVYSPSGPVNRRTTTPD SGVLFEGLGISTRPRDVEIPQFMRQIAVRRPT  
TADERSLRKIQEQDI INFRRTLYRAGARVRNIEDGGRYRDISAEFFRRNPACLHRLVPWL  
KRELT VLF GAHGS LVNIVQHII MSNVTRYDLESQAFVSDLRPFLN RTEHFIHEFISFAR  
SPFNMAAFDQHANYDCPAPSYEEGSHSDSSVITISPDEAETQELDINVATVSQAPWDD ET  
PGPSYSSSEQVHVTMSSLNTSDSSDEELVTGGATSQIQGVQTNDDLNDSDSDSDNCVI  
VGVFKPLAERTPELVELSSDSEDLGSYKMETVKTQEQQSYSSGSDSVSRCS SPHSVLG  
KDEQINKGHCDSSTRIKSKKEEKRSTLS SPRNLNSSVRGDRVYSPYNHRHRKRGRSRSS  
DSRSQSRSGHDQKNHRKHHGKKRMKSKRSRSRESSRPRGRD KKRSTRDSSWSRRSQTL  
SLSSESTRSRSRSSDHGKRRSRNRND RYLRNNYGSRYKWEYTYSRNKDRDGYESSY  
RRRTL SRAHYSRQSSSPEFRVQSF SERTNARKKNHSEKYYYYYERHRSRSLSSNRSRTA  
STGTDRVRNEKPGGKRKYKTRHLEGTNEVAQPSREFASKAKDSHYQSSSKLDGNYKNES  
DTFSDSRSSDRETKHRRKRKTRSLSVEIVYEGKATDTTKHHKKKKKKHKKHKKHHGDN  
ASRSPVVITIDSDSKDSEVKEDTECDNSGPQDPLQNEFLAPSLEPFETKDVVTIEAEFG  
VLDKECDIATLSNNLNNANKTVDNIPPLAASVEQTL DVREESTFVSDLENQPSNIVSLQT  
EPSRQLPSPRTSLMSVCLGRDCDMS

>sp|Q9NXH8|TOR4A\_HUMAN Torsin-4A OS=Homo sapiens GN=TOR4A PE=1 SV=2

MDRGQPSLEPAAAAPRASGRCV IAPVRAVLR LRRRVCLRKRRLLQPGGGPDVGTGAPRP  
GCSPRAPRADLDQPKFFTFDSPAELPSRTPRKKRRRSRLVLYPETS RKYRPRVEHRSRAQ  
RCLLLLVAIVGFQVLNAIENLDDNAQRYDL DGLEKALQRAVFGQPAAVSRIVALMRDYLA

THVHSRPLLLALHGPSGVGKSHVGRLLARHFRSVLEDSALVLQYHARHHCPARAAQDCR  
EELARRVADVVARAEAEKTPLLVDDVELMPRPLDELHGFLQPQRSHHFHNAIYVLLS  
GAGGAEVTRFVLQNASRALPLRPDGRSAEAAAAQAEDLRASLLAVLSREHPLWQAAAI  
VPFLLLDKRDVVS CFRDEMAGEGFFPDQARAENLAAQLSFYRVAGREFAVTGCKQVVATV  
NLL

>sp|Q16890|TPD53\_HUMAN Tumor protein D53 OS=Homo sapiens GN=TPD52L1 PE=1 SV=1  
MEAQAQGLLETEPLQGTDEDAVASADFSSMLSEEEKEELKAELVQLEDEITTLRQVLSAK  
ERHLVEIKQLGMNLMNELKQNFSSKSWHDMQTTTAYKKTHETLSHAGQKATAAFSNVGTA  
ISKKFGDMSYSIRHSISMPAMRNSPTFKSFEERVETTTSCLKTKVGGTNPNGGSFEEVLS  
STAHASASLAGGSRRRTKEEELQC

>sp|Q68CL5|TPGS2\_HUMAN Tubulin polyglutamylase complex subunit 2 OS=Homo sapiens GN=TPGS2  
PE=2 SV=2

MEEEASSPGLGCSKPHLEKLTIGITRILESSPGVTEVTIIEKPPAERHMISSWEQKNNCV  
MPEDVKNFYLMTNGFHTWSVKLDEHI IPLGSMAINSISKLTQLTQSSMYSLPNAPTAD  
LEDDTHEASDDQPEKPHFDSRSVIFELDSCNGSGKVCLVYKSGKPALAEDTEIWFLDRAL  
YWHFLTDTFTAYYRLLI THLGLPQWQYAFTSYGISPAKQWFSMYKPITYNTNLLTEETD  
SFVNKLDP SKVFKSKNKIVIPKKKG PVQPAGGQKGPSPGSPSTSSKSSSGSGNPTRK

>sp|Q9HCN2|TPIP1\_HUMAN p53-regulated apoptosis-inducing protein 1 OS=Homo sapiens  
GN=TP53AIP1 PE=2 SV=1

MGSSSEASFRSAQASC SGARRQLGRGDQNL SVMPPNGRAQTHTPGWVSDPLVLGAQVHG  
GCRGIEALSVSSGSWSSATVWILTGLGLGLSRPFLPGATVLRDRPLGS AFELSYDQKKAP  
LRLQ

>sp|Q17RH7|TPRXL\_HUMAN Putative protein TPRXL OS=Homo sapiens GN=TPRXL PE=5 SV=2

MTHDKSWRRCSISGSKRCGRSRIAGPNALGSGGRSSSSSSRSILSSSILSSSIPSSSS  
SSSSPSSSHSSSSPSSSHSSSSPSSSSSTSSPSSSSSSSSSSPSSSNSSSSSSSSPSS  
SSSSSSSSPSSSSSSPSSSSSSSSSSPSSSSSSPSSSSSSSSSSPSSSSPSSSGSSP  
SSSNSSPSSSSSSPSSSSSSPSSSSSTSSPSTSSPSSSSPSSSSPSSSCPSA  
ALGRRPQSPQSSHCAFPF

>sp|POCI26|TR49C\_HUMAN Tripartite motif-containing protein 49C OS=Homo sapiens GN=TRIM49C  
PE=2 SV=1

MNSGILQVFQGELICPLCMNYFIDPVTIDCGHSFCRPCFYLNWQDIPFLVQCSECTKSTE  
QINLKTNIHLKKMASLARKVSLWFLSSEEQMCGTHRETKKIFCEVDRSLLCLLCSSSQE  
HRYHRHRPIEWAEEHREKLLQKMQLWEKACENHRNLNVETTRTRCWKDYVNLRLAIR  
AEYQKMPAFHHEEEKHNLEMLKKKGKEIFHRLHLSKAKMAHRMEILRGMYEELNEMCHKP  
DVELLQAFGDILHRSESVLLHMPQPLNPELSAGPITGLRDRLNQFRVHITLHHEEANS DI  
FLYEILRSMCIGCDHQDVPHYFTATPRSFLAWGVQFTSGKYYWEVHVGDSWNWAFGVCNM  
YRKEKNQNEKIDGKEGLFLLGCIKNDIQCSLFTTSPLMLQYIPKPTSRVGLFLDCEAKTV  
SFVDVNQSSLIYTIPNCSFSPPLRPIFCCIHF

>sp|C9J1S8|TR49D\_HUMAN Tripartite motif-containing protein 49D OS=Homo sapiens  
GN=TRIM49D1 PE=2 SV=1

MNSGISQVFQRELTCPICLNYFIDPVTIDCGHSFCRPCFYLNWQDIPILTQCFECLKTTQ  
QRNLKTNI RLKKMASRARKASLWFLSSEEQMCGTHRETKKIFCEVDRSLLCLLCSSSLE  
HRYHRHCPAEWAEEHREKLLKKMQLWEKVCENQRNLNVETTRISHWKDYVNVRLAIR  
AEYQKMPAFHHEEEKHNLEMLKKKGKDI FHRLHLSKAKMAHRREILRGTYAELMKMCHKP

DVELLQAFGDILHRSESVLLHMPQPLNLELRAGPITGLRDRLNQFRVDITLPHNEANSHI  
FRRGDLRSICIGCDRQNAPHITATPTSFLAWGAQTFTSGKYYWEVHVGDSWNWAFGVCNK  
YWKGTNQNGNIHGEEGLFSLGCVKNDIQCSLFTTSPLTLQYVPRPTNHVGLFLDCEARTV  
SFVDVNQSSPIHTIPNCSFSPPLRPIFCCVHL

>sp|A6NI03|TR64B\_HUMAN Putative tripartite motif-containing protein 64B OS=Homo sapiens  
GN=TRIM64B PE=5 SV=3

MDSDDLQVFQNELICCVNYFIDPVTIDCGHSFCRPCLCLCSEEGRAPMRCPSCKRTSE  
KPNFNTNLVLKKLSSLARQTRPQINSSDNICVLHEETKELFCEADKRLLCGPCSESPEH  
MAHSHSPIGWAAEECREKL IKEMDYLWEINQETRNNLNQETSTFHSLKDYSVRKRIITI  
QYQKMPIFLDEEEQRHLQALEREAEELFQQLQDSQVRMTQHLERMKDMYRELWETCHMPD  
VVLLQDVRNVSARTDLAQMKPQPVNPELTWCITGVLDMLNNFRVDSALSTEMIPCYIS  
LSEDRVYVIFGDDHLSAPTDPQGVDSFAVWGAQFTSGKHYWEVDVTLSSNWILGVCARDS  
RTADANFVIDSDERFFLISSKRSNHYSLSSTNSPPLIQYVQRPLGRVGVFLDYDNGSVSFF  
DVSKGSLIYGFPSSFSPLRPFFCFGCT

>sp|P01850|TRBC1\_HUMAN T-cell receptor beta-1 chain C region OS=Homo sapiens GN=TRBC1  
PE=1 SV=3

EDLNKVFPEVAVFEPSEAEISHTQKATLVCLATGFFPDHVELSWVNGKEVHSGVSTDP  
QPLKEQPALNDSRYCLSSRLRVSATFWQNP RNHFRCQVQFYGLSENDEWTQDRAKPTQI  
VSAEAWGRADCGFTSVSYQQGVLSATILYEILLGKATLYAVLV SALVLMAMVKRKDF

>sp|Q15633|TRBP2\_HUMAN RISC-loading complex subunit TARBP2 OS=Homo sapiens GN=TARBP2 PE=1  
SV=3

MSEEEQSGSTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQP  
NFTFRVTVDGTSCTGQGPSKKAHKAAEVALKHLKGGSMLEPALEDSSSFPLDSSLPE  
DIPVFTAAAAATPVPSVVLTRSPPELQPPVSPQQSECNVPGALQELVVQKGWRLPEYTV  
TQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAKMLLRVHTVPLDARDGNEVEP  
DDDHFSIGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLRSCSLGSLGALGPACCRVLSE  
LSEEQAFHVSYLDIEELSLSGLCQCLVELSTQPATVCHGSATTREAAARGEAARRALQYLK  
IMAGSK

>sp|Q13061|TRDN\_HUMAN Triadin OS=Homo sapiens GN=TRDN PE=1 SV=4

MTEITAEGNASTTTTVIDSKNGSVPKSPGKVLKRTVTEDIVTTFSSPAAWLLVIALIITW  
SAVAIVMFDLVYDKNFSASSIAKIGSDPLKLVRDAMEETDWIYGFSLSDIISSEDEE  
DDDGDGEDTDKGEIDEPPLRKKEIHKDKTEKQEKPERKIQTQVTHKEKEKGKEKVRKEKEP  
EKKATHKEKIEKKEKPETKTLAKEQKKAKTAEKSEKTKKEVKGGKQEKVKQTAQVKEV  
QKTPSPKPEKEDKEKAAVSKHEQKDQYAFCRYMIDIFVHGDLPKGQSPAIPPLPTEQAS  
RPTPASPALEEKEGKKAEEKVTSETKKKEKEDIKKKSEKETAIDVEKKEPGKASETKQ  
GTVKIAAQAAAKKDEKKEDSKTKKPAEVEQPKGKKQEKKEKHVEPAKSPKKEHSVPSDK  
QVKAKTERAKEEIGAVSIKKA VPGKKEEKTTKTVEQEIRKEKSGKTSSILKDKEPIKGKE  
EKVPASLKEKEPETKKDEKMSKAGKEVKPKPPQLQGKKEEKEPEQIKKEAKPAISEKVQI  
HKQDIVKPEKTVSHGKPEEKVLKQVKA VTIETAKPKPTKKAHREREPPIKTDKPKPT  
PKGTSEVTESGKKKTEISEKESKEKADMKHLREEKVSTRKESLQLHNVTAKPARVSKD  
VEDVPASKKAKEGTEDVSPTKQKSPISFFQCVYLDGYNGYGFQFPFTPADRPGESSGQAN  
SPGQKQKQGG

>sp|Q9NP99|TREM1\_HUMAN Triggering receptor expressed on myeloid cells 1 OS=Homo sapiens  
GN=TREM1 PE=1 SV=1

MRKTRLWGLLWMLFVSELRAATKLTEEKYELKEGQTLQDVKCDYTLKFASSQKAWQIIRD  
GEMPKTLACTERPSKNSHPVQVGRIILEDYHDHGLLRVMVNLQVEDSGLYQCVIYQPPK  
EPHMLFDRIRLVVTKGFSGTPGSNENSTQNVYKIPPTTTKALCPLYTSPRTVTQAPPKST  
ADVSTPDSEINLTNVTDIIRVPVFNIVILLAGGFLSKSLVFSVLFAVTLRSFVP

>sp|Q9NZC2|TREM2\_HUMAN Triggering receptor expressed on myeloid cells 2 OS=Homo sapiens  
GN=TREM2 PE=1 SV=1

MEPLRLILLFVTELSGAHNTTVFQGVAGQSLQVSCPYDSMKHWGRRKAWCRQLGEKGPC  
QRVSTHNLWLLSFLRRWNGSTAITDDTLGGTLTITLRNLQPHDAGLYQCQSLHGSEADT  
LRKVLVEVLADPLDHRDAGDLWFPGESESFEDAHVEHSISRSLLEGEIPFPPTSILLLLA  
CIFLIKILAASALWAAAWHGQKPGTHPPSELDCGHDPGYQLQTLPLGLRDT

>sp|Q07283|TRHY\_HUMAN Trichohyalin OS=Homo sapiens GN=TCHH PE=1 SV=2

MSPLLRSICDITEIFNQYVSHDCGAALTKKDLKNLLEREFGAVLRRPHDPKTVDLILEL  
LDLDSNGRVDFNEFLIFKVAQACYALGQATGLDEEKRARCDGKESLLQDRRQEEDQR  
RFEPDRQLEEEPGQRRRQKRQEERELAEQEEQSEKQERLEQRDRQRDEELWRQRQEW  
QEREERRAEEELQSCKGHETEEFPDEEQLRRRELLELRKGREEKQQRRRERQDRVFQE  
EEEKEWRKRETVLRKEEEKLQEEEPQRQRELQEEELQRLKLERQELRRERQEEEQQQRL  
RREQLRRKQEEERREQQEERREQQERREQQEERREQLRREQEERREQLRREQEEERR  
EQQLRREQEERREQLRREQLRREQLRREQLRREQLRREQLRREQLRREQLRREQLR  
REQLRREQEERHEQKHEQERREQLKREQEERRDWLKREEETERHEQERRKQQLKRDQ  
EEERRERWLKLEEEERREQQERREQLRREQEERREQLRKRQEEERLQQLRSEQLRR  
EQEERREQLLKREEEKRLQEERREQLKREQEERRDQLKREEERRQQLKREQEERLEQ  
RLKREEVERLEQEERREQLKREEPEEERRQQLKSEEQEERRQQQLRREQQERREQLK  
REEEERLEQLRKREHEEERREQELAEQEEQEQARERIKSRIPKWQWQLESEADARQSKVY  
SRPRKQEGQRRRQEQUEEKRRRRESELQWQEEERAHRQQQEEEQRRDFTWQWQAEKSERG  
RQRLSARPLREQRERQLRAEERQQRERFLPEEEKEQRRRQRREREKELQFLEEEEL  
QRRERAQQLQEEEDGLQEDQERRRSQEQRRDQKWRWQLEEEKRRRHTLYAKPALQEQLR  
KEQQLLQEEEEEELQREEREKRRRQEERQYREEELQQEEELQLEEREKRRRQERERQY  
RKDKKLQKKEEQLLGEEPEKRRRQEREKKYREEELQQEEELQLEEREKRRRQEWERQY  
RKKDELQQEEELQLEEREKRRRLQERERQYREEELQQEEELQLEEREKRRRQELERQY  
RKEEELQQEEELQLEEREKRRRQERERQCREEEELQQEEELQLEEREKRRRQELERQY  
REEEVQQEEELQLEEREKRRRQELERQYREEELQQEEELQLEEREKRRRQERERQYR  
EEEELQRQKRQYRDEQDQSDLKWQWEPEKENAVRDNKVYCKGRENEQFRQLEDQSLRD  
RQSQDLQHLQGEQERDREQERRRWQQRDRHFPEEEQLEREEQKEAKRRDRKSQEEKQL  
LREEREKRRRQETDRKFREEEQLQEREEQLRQERDRKFREELRHQEQGRKFLEE  
QRLRRQERERKFLKEEQQLRCQEREQQLRQDRDRKFREEEQLSRQERDRKFREEEQVVR  
RQERERKFLEEQLRQERHRKFREEEQLQEREEQLHRQERDRKFLEEQLRQERD  
RKFREQLRSQEPERKFLEEQLHRQQRQKFLQEEQLRQERGGQRRQDRDRKFRE  
EQLRQEREEQQLSRQERDRKFRLEEQKVRRQEERKFMEDEQQLRQEGQQQLRQERDRK  
FREDEQLQEREEQLHRQERDRKFLEEQLRQEREQQLRHDRDRKFREEEQLQEGE  
EQQLRQERDRKFREEEQLRQERERKFLQEEQLRQELERKFREEEQLRQETEQEQL  
RRQERYRKILEEQLRPEREEQLRQERDRKFREEEQLRQEREEQQLRSQESDRKFRE  
EQLRQEREEQQLRPQQRDGKYRWEEELQLEEQEQLRQERDRQYRAEEQFATQEKSRR  
EQELWQEEEQKRRQERERKLEEHIRRQKEEQRRHQVGEIKSQEGKGHGRLLPEPGTHQF  
ASVPVRSSPLYEYIQEQRSQYRP

>sp|Q9UDY6|TRI10\_HUMAN Tripartite motif-containing protein 10 OS=Homo sapiens GN=TRIM10  
PE=1 SV=3

MASAASVTS LADEVNCPICQGT LREPVTIDCGHNFCRACLTRYCEIPGPDLEESPTCPLC  
KEPFRPGSFRPNWQLANVVENIERLQLVSTLGLGEEDVCQEHGEKIYFFCEDDEMQLCVV  
CREAGEHATH TMRFLDAAAPYREQIHKCLKLRKERE EIQEIQSRENKRMQVLLTQVST  
KRQQVISEFAHLRKFL EEQQSILLAQLESQDGDILRQRDEFDLLVAGEICRFSALIEELE  
EKNERPARELLTDIRSTLIRCETRKRKPVAVSPELGQRIRDFPQQALPLQREM KMFLEK  
LCFELDYEPAHISLDPQTSHPKLLLS EDHQRAQFSYKWQNSPDNPQRFD RATCVLAHTGI  
TGGRHTWVVSIDLAHGGSCTVGVS EDVQRKGELRLRPEEGVWAVRLAWGFVSALGSFPT  
RLTLKEQPRQVRVSLDYEVGWVTFNAVTREPIYTFTASFTRKVIPFFGLWGRGSSFSLS  
S

>sp|O60858|TRI13\_HUMAN E3 ubiquitin-protein ligase TRIM13 OS=Homo sapiens GN=TRIM13 PE=1  
SV=2

MELLEEDLTCPICCSLFDDPRVLPCSHNFCCKCLEGILEGSVRNSLWRPAPFKCPTCRKE  
TSATGINS LQVNYS LKGIVEKYNKIKISPKMPVCKGHLGQPLNIFCLTDMQLICGICATR  
GEHTKHVFC SIEDAYA QERDAFESLFQSFETWRRGDALSRLDTLET SKRKS LQLLTKDSD  
KVKEFFEKLQHTLDQK KNEILSDFETMKLAVMQAYDPEINKLNTILQEQRMAFNIAEAFK  
DVSEPIVFLQMQEFREKIKV IKETPLPPSNLPASPLMKNFDT SQWEDIKLVDVDKLSLP  
QDTGTFISKIPWSFYKLFLLILLGLVIVFGPTMFLEWSLFDDLATWKGCLSNFSSYLTK  
TADFIEQSVFYWEQVTDGFFIFNERFKNFTLVVLNNVAEFVCKYKLL

>sp|Q9Y577|TRI17\_HUMAN E3 ubiquitin-protein ligase TRIM17 OS=Homo sapiens GN=TRIM17 PE=1  
SV=1

MEAVELARKLQEEATCSICLDYFTDPVMTTCGHNFCRACIQLSWEKARGKKGRRKRKGSF  
PCPECREMSPQRNLLPNRLLTKVAEMAQQHPGLKQKQDLCQEHHEPLKLFCQKQSPICVV  
CRESREHRLHRVLPAAEAVQGYKLKLEEDMEYLREQITRTGNLQAREEQSLAEWQGVKE  
RRERIVLEFEKMNLYLVEEEQRLLQALETEEEETASRLRESVACLDRQGHSLELLLLQLE  
ERSTQGPLQMLQDMKEPLSRKNNVSVQCPEVAPPTRPRTVCRVPGQIEVLRGFLEDVVPD  
ATSAYPYLLLYESRQRRYLGS SPESGFC SKDRFVAYPCAVGQTAFSSGRHYWEVGMNIT  
GDALWALGVCRDNVSRKDRVPKCPENGFWV VQLSKGTKYLSTFSALTPVMLMEPPSHMGI  
FLDFEAGEVSVFYSVDGSHLHTYSQATFPGPLQPPFFCLGAPKSGQMVISTVTMWVKG

>sp|Q8IWZ5|TRI42\_HUMAN Tripartite motif-containing protein 42 OS=Homo sapiens GN=TRIM42  
PE=1 SV=2

METAMCVCCPCTWQRCCPQLCSCLCKFIFTSERNCTCFPCPYKDERNQC FCHCTCSES  
PNCHWCCCSWANDPNCKCCCTASSNLNCYYESRCCRNTIITFHKGRLRSIHTSSKTALR  
TGSSDTQVDEVKSI PANSHLVNHLNCPMCSRLRLHSFMLPCNHS LCEKCLRQLQKHAEVT  
ENFFILICPVCDRSHCMPYSNKMQLPENYLHGRLTKRYMQEHGYLKWRFRSSGPILCQV  
CRNKRIAYKRCITCRLNLCNDCLKAFHSDVAMQDHVFD TSAEEQDEKICIHHPSSRIIE  
YCRNDNKLLCTFCKFSFHNGHDTISLIDACSERAASLFS AIAKFAVRYEIDNDLMEFNI  
LKNSFKADKEAKRKEIRNGFLKRSILQEKEKIIMEQIENLEVS RQKEIEKYVYVTTMKV  
NEMDGLIAYSKEALKETGQVAF LQSAKILVDQIEDGIQTTYRDPQLRLHSINYVPLDFV  
ELSSAIHELFP TGPKKVRSSGDSLSPYPVHSETMIARKVTFSTHSLGNQHIYQRSSSML  
SFSNTDKKAKVGLEACGRAQSATPAKPTDGLYTYWSAGADSQSVQNSSSFHNWYSFNDGS  
VKTPGP IIVIQTLVYPRAAKVYWTCPAEDVDSFEME FYE VITSPNNVQMELCGQIRDIM  
QQNLELHNLTPNTEYVFKVRAIN DNGPGQWSDICKV VTPDGHGKNRAKWGLLKNIQSALQ

KHF

>sp|Q7Z4K8|TRI46\_HUMAN Tripartite motif-containing protein 46 OS=Homo sapiens GN=TRIM46  
PE=2 SV=2

MAEGEDMQTFTSIMDALVRISTSMKNMEKELLCPVCQEMYKQPLVLPCTHNVCQACAREV  
LGQQGYIGHGGDPSSEPTSPASTPSTRSPRLSRRTLPKPDRLDRLKSGFGTYPGRKRGA  
LHPQVIMFPCPACQGDVELGERGLAGLFRNLTLERVVERYRQSVSVGGAILCQLCKPPPL  
EATKGCTECRATFCNECFKL FHPWGTQKAQHEPTLPTLSFRPKGLMCPDHKEEVTHYCKT  
CQRLVCQLCRVRRTHSGHKITPVLSAYQALKDKLTKSLTYILGNQDTVQTQICELEEAVR  
HTEVSGQAKEEVSQVLVRGLGAVLEEKRASLLQAIEECQERLARLSAQIQEHRSLDGS  
GLVGYAQEVLKETDQPCFVQAAKQLHNRIARATEALQTFRPAASSSFRHCQLDVGREMKL  
LTELNFLRVPEAPVIDTQRTFAYDQIFLCWRLPPHSPPAWHYTFEFRRTDVPAPQPGPTRW  
QRREEVRGTSALLENPDGTSVYVLRVRGCNKAGYGEYSEDVHLHTPPAPVLHFFLDSRWG  
ASRERLAISKDQRAVRSVPGLPLLLAADRLLTGCHLSVDVVLGDVAVTQGRSYWACAVDP  
ASYLVKVGVGLESKLQESFQGAPDVISPRYDPDSGHDGAEDATVEASPPFAFLTIGMGK  
ILLGSGASSNAGLTGRDGPTAGCTVPLPPRLGICLDYERGRVSFLDAVSFRGLLECPLDC  
SGPVCPAFCFIGGAVQLQEPVGTKPERKVTIGGFAKLD

>sp|POCI25|TRI49\_HUMAN Tripartite motif-containing protein 49 OS=Homo sapiens GN=TRIM49  
PE=2 SV=1

MNSGILQVFQGELICPLCMNYFIDPVTIDCGHSFCRPCFYLNWQDIPFLVQCSECKSTE  
QINLKTNIHLKKMASLARKVSLWLFLSSEEQMCGTHRETKKIFCEVDRSLLCLLCSSSQE  
HRYHRHRPIEWAAEEHREKLLQKMQSLWEKACENHRNLNVETTRTRCWKDYNLRLEAIR  
AEYQKMPAFHHEEEKHNLEMLKKKGKEIFHRLHLSKAKMAHRMEILRGMYEELNEMCHKP  
DVELLQAFGDILHRSESVLLHMPQPLNPESAGPITGLRDRLNQFRVHITLHHEEANNDI  
FLYEILRSMCIGCDHQDVYFTATPRSFLAWGVQFTFTSGKYYWEVHVGDSWNWAFGVCNM  
YRKEKNQNEKIDGKAGLFLLGCVKNDIQCSLFTTSPLMLQYIPKPTSRVGLFLDCEAKTV  
SFVDVNQSSLIYTIPNCSFSPPLRPIFCCIHF

>sp|Q9BSJ1|TRI51\_HUMAN Tripartite motif-containing protein 51 OS=Homo sapiens GN=TRIM51  
PE=2 SV=2

MNSGILQVQFQALTCPICMNYFLDPVTIDCGHSFCRPCLYLNWQDTAVLAQCSECKKTTR  
QRNLNTDICKLNMAFIARKASLRQFLSSEEQICGMHRETKKMFCEVDKSLLCLPCSNSQE  
HRNHIHCPIEWAAEERREELLKKMQSLWEKACENLRNLNMETTRTRCWKDYSRLRIEAIR  
AEYQKMPAFLHEEEQHHLERLRKEGEDIFQQLNESKARMEHSRELLRGMIEDLKQMCHKA  
DVELLQAFGDILHRYESLLLQVSEPVNPESAGPITGLDLSLGFVRDFTLQPERANSI  
FLCGDLRSMNVGCDPQDDPDITGKSECFVWGAQAFTSGKYYWEVHMGDSWNWAFGVCNN  
YWKEKRQNDKIDGEEGLFLLGCVKEDTHCSLFTTSPLVVQYVPRPTSTVGLFLDCEGRTV  
SFVDVDQSSLIYTIPNCSFSPPLRPIFCCSHF

>sp|Q495X7|TRI60\_HUMAN Tripartite motif-containing protein 60 OS=Homo sapiens GN=TRIM60  
PE=2 SV=2

MEFVTALVNLQEESSCPICLEYLKDPVTINCGHNFCRCLSVSWKDLDLDTFPCPVCRCFCF  
PYKSFRRNPNQLRNLTETIAKQLQIRRSKRKRQKENAMCEKHNFQLTLFCVKDLEILCTQCS  
FSTKHQKHYICPIKKAASYHREILEGSLEPLRNNIERVEKVIILQGSKSVELKKKVEYKR  
EEINSEFEQIRLFLQNEQEMILRQIQDEEMNILAKLNENLVELSDYVSTLKHLLREVEGK  
SVQSNLELLTQAQSMHHKYQNLKCELF SFRLTKYGFSLPPQYSGLDRIIKPFQVDVILD  
LNTAHPQLLVSEDRKAVRYERKKRNICYDPRRFYVCPAVLGSQRFSSGRHYWEVEVGNKP



KWILGVCQDCLLRNQDQPSVLGGFWAIGRYMKSgyVASGPKTTQLLPVVKPSKIGIFLD  
YELGDLsfYnmndrsilyTFNdcfTEAVWPYfYtGTDSEPLKICsvSDSER

>sp|Q12816|TROP\_HUMAN Trophinin OS=Homo sapiens GN=TRO PE=1 SV=3

MDRRNDYGYRVPLFQGPLPPPGSLGLPFPPDIQTETTEEDSVLLMHTLLAATKDSLAMP  
PVVNRPKKSKTKKAPIKTITKAAPAAPPVPAANEIATNPKITWQALNLPVITQISQALP  
TTEVTNTQASSVTAQPKKANKMKRVTAkAAQGSQSPTGHEGGTIQLKSPLQVLKLPVISQ  
NIHAPIANESASSQALITSIKPKKASKAKKAANKAIASATEVSLAATATHTATTQGQITN  
ETASIHtTAASIRTKKASKARKTIakVINtDTEHIEALNVTDAATRQIEASVVAIRPKKS  
KGKKAASRGPNsvSEISEAPLATQIVTNQALAATLRVKRGSrARKAATKARATESQTPNA  
DQGAQAKIASAQTNVSALETQVAAAVQALADDYLAQLSLEPTTRTRGKRNRKSKHLNGDE  
RSGSNYRRIPWGRRPAPPRDVAIlQERANKLVKYLlVKDQTKIPIKRSDMLRDVIQEYDE  
YFPEIIERASYtLEKMFrvNLKEIDKQSSLYILISTQESSAGILGTTKDTPKLGllMVIL  
SVIFMNGNKASEAVIWEVLRKLGLRPGVRHSLfGEVRKLITDEFVKQKYLEYKRVpNSRP  
PEYEFFWGLRSYHETSKMKVLKfACRVQKKDPKDWAVQYREAVEMEVQAAAVAVAEAEAR  
AEARAQMGIgEEAVAGPWNWDDMDIDCLTREELGDDAQAWSRfSFEIEARAQENADASTN  
VNFSRGAstrAGfSDGASISfNGAPSSSGGfSGGPGITFGVAPSTSASfSNTASISfGGT  
LSTSSSFSSAASISfGCAHSTSTSFSSeASISfGGMPCTSAfSGGVSSSFSGPLSTSAT  
fSGGASSGfGGTLSTTAGfSGVLSTSTfSGSAPTTSTVFSSALSTSTGfGGILSTSVCFG  
GSPSSSGfSGGTLSTSIcFGGSPCTSTGfGGTLSTSVfSGSSSTSANfGGTLSTSIcFD  
GSPSTGAGfGGALNTSAfGSVLNTSTGfGGAMSTSAfGGTLSTSVCFGGSPGTSVSfG  
SALNTNAGYGGAVSTNTDfGGTLSTSVCFGGSPSTSAfGGALNTNASfGCAVSTSASfS  
GAVSTSACfSGAPITNPgFGGAFSTSAfGGALSTAADfGGTPSNSIGfGAAPSTSVfSG  
GAHGTSLcFGGAPSTSLcFGSASNTNLcFGGPPSTSAcFGSATSPSfCDGPSTSTGfSfG  
NGLSTNAGfGGGLNTSAfGGGLGTSAGfSGGLSTSSGfDGGLGTSAGfGGPGTSTGfG  
GGLGTSAGfSGGLGTSAGfGGGLVTSDGfGGGLGTNASfGSTLGTSAGfSGGLSTSDGfG  
SRPNASfDRGLSTIIgFGSGSNTSTGfTGEPSTSTGfSSGPSSIVGfSGGPSTGVGFCSG  
PSTSGfSGGPSTGAGfGGGPNTGAGfGGGPSTSAfGfGGAASLGACGfSYG

>sp|P20231|TRYB2\_HUMAN Tryptase beta-2 OS=Homo sapiens GN=TPSB2 PE=1 SV=2

MLNLLLlALPVLASRAYAAPAGQALQRVGIVGGQEAPRSKWpWQVSLRVHGPYWMHfCG  
GSLIHPQWVLTAAhCVGPdVKDLAALRVQLREqHLYYQDQLLPVSRIIVHPQfYTAQIGA  
DIALLEELeePVNVSSHVHTVTLPPASeTFPPGMPcWVTGWGDVDNderLPPPFPLKQVKV  
PIMENHICDAKYHLGAYTGDDVRIVRDDMLCAGNTRRDSCQGDsgGPLVCKVNGTWLQAG  
VVSWEgECAQPNRPGIYTRVTYYLDWIHHYVPKKP

>sp|Q9NX07|TSAP1\_HUMAN tRNA selenocysteine 1-associated protein 1 OS=Homo sapiens  
GN=TRNAU1AP PE=1 SV=1

MAASLWMGDLEPYMDENfISRafATMGETVMSVKIIRNRLTGIPAGYCFVEfADLATAEK  
CLHKINGKPLPGATPAKRfKLNyATYgKQPDNSPEYSLfVGDLTpDvDDGMLYEFFVKVY  
PSCRGGKVVLDQTVGSKGYGFVKfTDELEQKRALTECQGAvgLGSKpVRLSVAIPKASRV  
KPVEYSQMYSYSYNQYYQYYQNYyAQWGYDQNTGSYSYSYPQYGYTQSTMQTYEEVGDDA  
LEDPMpQLDVTEANKEfMEQSEELYDALMDCHWQPLDTSSEIPAMM

>sp|Q9BY10|TSCOT\_HUMAN Thymic stromal cotransporter homolog OS=Homo sapiens GN=SLC46A2  
PE=2 SV=1

MSPEVTCPRRHLPfRfHPRTWVEPVVASSQVAASLYDAGLLLvVKASyGTGGSSNHsASP  
SPRGALEDQQQRAISNFYIIYNLVVGLSPLLSAYGLGWLSDRYHRKISICMSLLGfLLSR

LG LLLKVL LDWPVEVLYGAAALNGLFGGFSAFWSGVMALGSLGSSEGRRSVRLILIDLML  
GLAGFCGSMASGHLFKQMAGHSGQGLILTACSVSCASFALLYSLLVLKVPESVAKPSQEL  
PAVDTVSGTVGTYRTLDPDQLDQQYAVGHPPSPGKAKPHKTTIALLFVGAIYDLAVVGT  
VDVIPLFVLREPLGWNQVQVGYGMAAGYTIFITSFLGVLVFSRCFRD TTMIGMVSFGS  
GALLLAFVKETYMFYIARAVMLFALIPVTTIRSAMSKLIKSSYGKVFVILQLSLALTGV  
VTSTLYNKIYQLTMDMFVGSCFALSSFLSFLAIIPISIVAYKQVPLSPYGDIEK

>sp|Q96PP4|TSG13\_HUMAN Testis-specific gene 13 protein OS=Homo sapiens GN=TSGA13 PE=2 SV=1

MSQKRQTKFQNGKSKTSENSSAKREKGMVNSKEISDAVGQSKFVLENLRHYTVHPNLAQ  
YYKPLKATALQKFLAQNRKNTSFMLKVTQYDQDKTLLIMTNPPPCSITQQDKESASKYF  
SKELLKVMESHQHKPTENLWLPMPQKKKLRSLKPIFPLILSDDPTSKREQWFRFST  
DNDFKSEGGYSKYVALRTQKKMYPQLTFAPVHERDMRKDASKKSASERPISKVIREPLTL  
ASLLEDMPTRTAPGESAFRNGRAPQWIIKKATVIG

>sp|Q969D9|TSLP\_HUMAN Thymic stromal lymphopoietin OS=Homo sapiens GN=TSLP PE=1 SV=1

MFPPFALLYVLSVFRKIFILQLVGLVLT YDFTNCDFEKIKAAYLSTISKDLITYMSGTKS  
TEFNNTVSCSNRPHCLTEIQSLTFNPTAGCASLAKEMFAMKTKAALAIWCPGYSETQINA  
TQAMKKRRKRKVT TNKCLEQVSQ LQGLWRRFNRPLLKQQ

>sp|Q9H1Z9|TSN10\_HUMAN Tetraspanin-10 OS=Homo sapiens GN=TSPAN10 PE=2 SV=1

MEEGERSPLLSQETAGQKPLSVHRPPTSGCLGPVPREDQAEAWGCSCCPPETKHQALS GT  
PKKGPAPSLSPGSSCVKYLIFLSNFPFSLGLLALAIGLWGLAVKGSGLGSDLGGPLPTDP  
MLGLALGGLVVSAA SLAGCLGALCENTCLLRGFSGGILAFVL EAVAGALVVALWGPLQD  
SLEHTLRVAIAHYQDDPDLRFLLDQVQLGLRCCGAASYQDWQQNLYFNCSSPGVQACSLP  
ASCCIDPREDGASVNDQCGFGVLR LDADAAQRVVYLEGCGPPLRRWLRANLAASGGYAIA  
VVLLQGAELL LAARLLGALAARSGAAYGPGAHGEDRAGPQSPSPGAPPAAKPARG

>sp|Q9UKR8|TSN16\_HUMAN Tetraspanin-16 OS=Homo sapiens GN=TSPAN16 PE=2 SV=1

MAEIHTPYSSLKLLSLLNGFVAVSGIILVGLGIGGKCGGASLTNVLGLSSAYLLHVGNL  
CLVMGCITVLLGCAGWYGATKESRGTL LFCILSMVIVLIMEVTAATVVLLFFPIVGDVAL  
EHTFVTLRKNYRGYNPDDYSTQWNLVMEKLKCCGVNNYTD FSGSSFEMTTGHTYPRSCC  
KSIGSVSCDGRDVPNVIHQKGC FHKLLKITKTSFTLSGSSLGAAVIQRWGSRYVAQAG  
LELLA

>sp|O60637|TSN3\_HUMAN Tetraspanin-3 OS=Homo sapiens GN=TSPAN3 PE=2 SV=1

MGQCGITSSKTVLVLNLIFWGAAGILCYVGAYVFITYDDYDHFEDVYTLIPAVVIAV  
GALLFIIGLIGCCATIRESRCGLATFVII LLLVFVTEVVVVVLGYVYRAKVENEVDRSIQ  
KVYKTYNGTNPDAASRAIDYVQRQLHCCGIHNYSDWENTDWFKETKNQSVPLS CCRETAS  
NCNGSLAHPSDLYAE GCEALVVKLQEIMMHVIWAALAF AATQLLGMLCACIVLCRRSRD  
PAYELLITGGTYA

>sp|P19075|TSN8\_HUMAN Tetraspanin-8 OS=Homo sapiens GN=TSPAN8 PE=1 SV=1

MAGVSACIKYSMFTFNFLFWLCGILILALAIWVRVSNDSQAIFGSE DVGSSSYVAVDILI  
AVGAIIIMLGFLGCCGAIKESRCMLLLFFIGLLLILL LQVATGILGAVFKSKSDRIVNET  
LYENTKLLSATGESEKQFQEAII VFQEEFKCCGLVNGAADWGNNFQHYPELCACLDKQRP  
CQSYNGKQVYKETCISFIKDFLAKNLIIVIGISFGLAVIEILGLVFSMVLYCQIGNK

>sp|Q99598|TSNAX\_HUMAN Translin-associated protein X OS=Homo sapiens GN=TSNAX PE=1 SV=1

MSNKEGSGGFRKRKHDFNPHNQRRREGKDVNSSSPVMLAFKSFQQELDARHDKYERLVKLS  
RDITVESKRTIFLLHRITSAPDMEDILTESEIKLDGVRQKIFQVAQELSGEDMHQFHRAI

TTGLQEYVEAVSFQHFIKTRSLISMDEINKQLIFTTEDNGKENKTPSSDAQDKQFGTWRL  
RVTPVDYLLGVADLTGELMRMCINSVGNIDIDTPFEVSQFLRQVYDGFSGFIGNTGPYEVS  
KKLYTLKQSLAKVENACYALKVRGSEIPKHLADVFSVKTE MIDQEEGIS

>sp|A6NKD2|TSPY2\_HUMAN Testis-specific Y-encoded protein 2 OS=Homo sapiens GN=TSPY2 PE=3  
SV=1

MRPEGSLTYRVPERLRQGSCGVGRAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALG  
EEAVLLDDIMAEVEVVAEEEGVERREEAQRQAQAVPGPGPMTPE SALEELLAVQVELE  
PVNAQARKAFSRQREKMERRRRKPHLDRRGAVIQSVPGFWANVIANHPQMSALITDEDEDM  
LSYMSLEVEEEKHRVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTPIEWYPD  
YEVEAYRRRRHNSLNFNWFSDHNFAGSNKIAEILCKDLWRNPLQYYKRMKPPEEGTET  
SGDSQLLS

>sp|Q53HC9|TSSC1\_HUMAN Protein TSSC1 OS=Homo sapiens GN=EIPR1 PE=1 SV=2

MEDDAPVIYGLEFQARALTPQTAETDAIRFLVGTQSLKYDNQIHIIDFDDENNIINKNVL  
LHQAGEIWHISASPADRGVLTTTCYNRTSDSKVLTC AAVWRMPKELESGSHESPDDSSSTA  
QTLELLCHLDNTAHGNMACVVWEPMDGKKIISLADNHILLWDLQESSSQAVLASSASLE  
GKGQLKFTSGRWSPHHNCTQVATANDTTLRGWDTRMSQIYCIENAHGQLVRDLDFNPNK  
QYYLASCGDDCKVKFDTRNVTEPVKTL EEHSHVWVNVRYNHS HDQLVLTGSSDSRVILS  
NMVSISSPEFGHLVDDDDISDQEDHRSEEKSKEPLQDNVIATYEEHEDSVYAVDWSSADP  
WLFASLSYDGRLVINRVPRALKYHILL

>sp|Q9BXA6|TSSK6\_HUMAN Testis-specific serine/threonine-protein kinase 6 OS=Homo sapiens  
GN=TSSK6 PE=1 SV=1

MSGDKLLSELGYKLGRTIGEGSYSKVKVATSKKYKGTVAIKVVDRRRAPPDFVNKFLPRE  
LSILRGVRHPHIVHVFIEVCNGKLYIVMEAAATDLLQAVQRNGRIPGVQARDLFAQIA  
GAVRYLHDHHLVHRDLKCENVLLSPDERRVKLTDGFGGRQAHGYPDLSTTYCGSAAYASP  
EVLLGIPYDPKKYDVWSMGVLYVMVTGCMPPFDDSDIAGLPRRQKRGVLYPEGLELSERC  
KALIAELLQFSPSARPSAGQVARNCWLRAGDSG

>sp|O60220|TIM8A\_HUMAN Mitochondrial import inner membrane translocase subunit Tim8 A  
OS=Homo sapiens GN=TIM8A PE=1 SV=1

MDSSSSSSAAGLGAVDPLQHFIEVETQKQRFQQLVHQMTCLWEKCMDKPGPKLDSRAE  
ACFVNCVERFIDTSQFILNRLEQTQKSKPVFSESLSD

>sp|Q5JTD0|TJAP1\_HUMAN Tight junction-associated protein 1 OS=Homo sapiens GN=TJAP1 PE=1  
SV=1

MTSAAPAKKPYRKAPPEHRELRL EIPGSRLEQEEPLTDAERMKLLQEENEELRRRLASAT  
RRTEALERELEIGQDCLELELGQSREELDKFKDKFRRLQNSYTASQRTNQELEDKLHTLA  
SLSHSWIFAIKKAEMDRKTL DWEIVELTNKLLDAKNTINKLEELNERYRLDCNLAVQLLK  
CNKSHFRNHKFADLPCELQDMVRKHLHSGQEAA SPGPAPSLAPGAVVPTSVIARVLEKPE  
SLLLNSAQSGSAGRPLAEDVFVHVD MSEGVP GDPASPPAPGSPTPQPNGECHSLGTARGS  
PEEELPLPAFEKLN PYTPSPPHPLYPGRRIEFSEDKVRIPRNSPLPNCTYATRQAISL  
SLVEEGSERARPSVPSTPASAQASPHHQSPAPLTL SAPASSASSEEDLLVSWQRAFVD  
RTPPPAAVAQRTAFGRDALPELQRHFAHSPADRDEVVQAPSARPEESELLLPTEPDSGFP  
REEEELNLPISPEEERQSLLPINRGTEEGPGTSHTEGRAWPLPSSSRPQRSPKRMGVHHL  
HRKDSL TQAQEQGNLLN

>sp|Q96CP7|TLCD1\_HUMAN Calfacilitin OS=Homo sapiens GN=TLCD1 PE=2 SV=1

MPRLHPALPLLLGATLTFRALRRALCRLPLPVHVRADPLRTWRWHNLLV SFAHSIVSGI

WALLCVWQTPDMLVEIETAWSLSGYLLVCFSSAGYFIHDTVDIVASGQTRASWEYLVHHVM  
AMGAFFSGIFWSSSFVGGGVLTLLVEVSNIFLTIRMMMKISNAQDHLLYRVNKYVNLVMYF  
LFRLAPQAYLTHFFLRYVNQRTLGTFLLGILLMLDMIIIIYFSRLLRSDFCPEHVPKKQH  
KDKFLTE

>sp|Q96IK0|TM101\_HUMAN Transmembrane protein 101 OS=Homo sapiens GN=TMEM101 PE=1 SV=1  
MASKIGSRRWMLQLIMQLGSVLLTRCPFWGCFSQLMLYAERAEARRKPDIPVPYLYFDMG  
AAVLCASFMSFGVKRRWFALGAALQLAISTYAAAYIGGYVHYGDWLKVRMYSRTVAIIGGF  
LVLASGAGELYRRKPRSRSLQSTGQVFLGIYLICVAYSLQHSKEDRLAYLNHLPGGELMI  
QLFFVLYGILALAFLSGYVYTLAAQILAVLLPPVMILLIDGNVAYWHNTRRVEFWNQMKLL  
GESVGIFGTAVILATDG

>sp|Q6UX40|TM107\_HUMAN Transmembrane protein 107 OS=Homo sapiens GN=TMEM107 PE=2 SV=1  
MGRVSGLVPSRFLTLLAHLVVVITLFWSRDSNIQACPLTFTPEEYDKQDIQLVAALSVT  
LGLFAVELAGFLSGVSMFNSTQSLISIGAHCSASVALSFFIFERWECTTYWYIFVFCAL  
PAVTEMALFVTVFGLKKPF

>sp|Q9BVC6|TM109\_HUMAN Transmembrane protein 109 OS=Homo sapiens GN=TMEM109 PE=1 SV=1  
MAASSISSPWGKHVFKAILMVLVALILLHSALAQSRRDFAPPGQQKREAPVDVLTQIGRS  
VRGTLDAWIGPETMHLVSESSSQVLWAISSAISVAFFALSGIAAQLLNALGLAGDYLAQG  
LKLSPGQVQTFLWGAGALVVYWLSSLGLVLALLGRILWGLKLVIFLAGFVALMRSVP  
DPSTRALLLLALLILYALLSRLTGSRASGAQLEAKVRGLERQVEELRWRQRRAAKGARSV  
EEE

>sp|Q8N616|TM148\_HUMAN Putative uncharacterized protein encoded by LINC00311 OS=Homo sapiens GN=LINC00311 PE=5 SV=1  
MVAADQGRGWNPLDGPTEVLAMPLPLGPATQVPALFSAALVPPVSSLRPNQMLDWQRLK  
TPHGAPVACSLGLSGEWVPTPCALSILALLGLQLDPLFGLWGCTRTLFWSEWARESRRP

>sp|Q96B96|TM159\_HUMAN Promethin OS=Homo sapiens GN=TMEM159 PE=1 SV=2  
MAKEEPQSISRDLQELQKKLSLLIDSFQNNKVVAFMKSPVGQYLDShpFLAFTLLVFIV  
MSAVPVGFFLLIVVLTTLAALLGVIIILEGLVISVGGFSLLCILCGLGFVSLAMSGMMIAS  
YVVVSSLISCWFSPRPLTQQNTSCDFLPAMKSAEFEGLYQE

>sp|Q9NX00|TM160\_HUMAN Transmembrane protein 160 OS=Homo sapiens GN=TMEM160 PE=1 SV=1  
MGGGWWWARAARLARLRFRRSLPPQRPRSGGARGSFAPGHGPRAGASPPPVSELDRADA  
WLLRKAHETAFLSWFRNGLLASGIGVISFMQSDMGREAAYGFLLGGLCVVWGSASYAVG  
LAALRGPMQLTLGGAAVGAGAVLAASLLWACAVGLYMGQLELDVELVPEDDGTASAEGPD  
EAGRPPPE

>sp|Q9BSA9|TM175\_HUMAN Endosomal/lysosomal potassium channel TMEM175 OS=Homo sapiens GN=TMEM175 PE=1 SV=1  
MSQRTPEQALDTPGDCPPGRREDEDAGEGIQCSQRMLSFS DALLSIIATVMILPVTHTEI  
SPEQQFDRSVQRLLATRIAYVLMFTLIVTVAWAAHTRLFQVVGKTDDTLALLNLACMMTI  
TFLPYTFSLMVTFPDVPLGIFLCVCVIAIGVVQALIVGYAFHFPHLLSPQIQRSAHRAL  
YRRHVLGIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILLPYVSKVTGWCDRLLGHREP  
SAHPVEVFSFDLHEPLSKERVEAFSDGVYAIVATLLILDICEDNVPDPKDVKERFSGSLV  
AALSATGPRFLAYFGSFATVGLLWFAHSLFLHVRKATRAMGLLNTLSLAFVGGPLAYQ  
QTSAFARQPRDELERVRVSCIIIFLASIFQLAMWTTALLHQAETLQPSVWFGGREHVL MF  
AKLALYPCASLLAFASCTLLSRFSVGIFHLMQIAVPCAFLLLRLLVGLALATLRVLRGLA  
RPEHPPAPPTGQDDPQSQLLPAPC

>sp|Q9P2C4|TM181\_HUMAN Transmembrane protein 181 OS=Homo sapiens GN=TMEM181 PE=1 SV=2  
MGAAPSPTQASSRGGGPGPPAPTRAVSSSSRARGGALSALGPPSPARPLTTSPAPAPPPRS  
RPARQQPDPQCWEKRGAGGDTKGGAAGPGPGRLRGMDAEYPAFEPPLCSELKHLCRRLR  
EAYRELKEDLTPFKDDRYRLAPMRLYTLKRHFVLVVFVFFICFGLTIFVGIRGPKVIQ  
TSAANFSLNNSKKLKPIQILSNPLSTYNQQLWLTCVVELDQSKETSIKTSFPM TVKVDGV  
AQDGTMYIHNVHNRTTLTCAGKCAEIIVAHLGYLNTQYTVIVGFEHLKLPIKGMNF  
TWKTYNPAFSRLEIWFRFFVVLTFIVTCLFAHSLRKFSMRDWGIEQKWMSVLLPLLLLY  
NDPFFPLSFLVNSWLPGMLDDLQSMFLCALLLFWLCVYHGIRVQGERKCLTFYLPKFFI  
VGLLWLASVTLGIWQTVNELHDPMYQYRVD TGNFQGMKVFFMVVA VYILYLLFLIVRAC  
SELRHMPYVDLRLKFLTALTFVVLVISIAILYLRFGAQLQDNFVAELSTHYQNSAEFLS  
FYGLNFYLYTLAFVYSPSKNALYESQLKDNPAFSMLNDSDDDV IYGS DYEEMPLQNGQA  
IRAKYKEESDSD

>sp|Q96B77|TM186\_HUMAN Transmembrane protein 186 OS=Homo sapiens GN=TMEM186 PE=2 SV=1  
MAALLRAVRRFRGKAVWERPLHGLWCCSGQEDPKRWVGSSSPI SKEKLPNAETEFWMFY  
RFDAIRTFGFLSRLKLAQTALTVVALPPGYLYSQGLLTLNTVCLMSGISGFALTMLCWM  
SYFLRRLVGILYLNESGTMLRVAHLNFWGWRQDTYCPMADV IPLTETKDRPQEMFVRIQR  
YSGKQTFYVTLRYGRILDRERFTQVFGVHQMLK

>sp|A2RRL7|TM213\_HUMAN Transmembrane protein 213 OS=Homo sapiens GN=TMEM213 PE=3 SV=2  
MQRLPAATRATLILSLAFASLHSACSAEASSNSSSLTAHHPDPTLEQCLNVDFCPQAA  
RCCRTGVDEYGWIAAAVGSWLWFLTLILLCVDKLMKLT PDEPKDLQA

>sp|Q8N7C4|TM217\_HUMAN Transmembrane protein 217 OS=Homo sapiens GN=TMEM217 PE=2 SV=1  
MKQQQWCGMTAKMGTVLSGVFTIMAVDMYLIFEQKHLNGSGCTEITPKYRGASNIINNFI  
ICWSFKIVLFLSFITILISCFLLYSVYAQIFRGLVIYIVWIFFYETANVVIQILTNNDFD  
IKEVRIMRWFGLVSRVVMHCFWMFFVINYAHITYKNRSQGNII SYKRRISTAEILHSRKN  
RLSISSGFSGSHLESQYFERQSFHTSIFTCLSPVPSSAPSTCRYTIDVC

>sp|C9JQI7|TM232\_HUMAN Transmembrane protein 232 OS=Homo sapiens GN=TMEM232 PE=2 SV=2  
MNMVFNKSPMINTCGGISSPYHEELWKLNFQHL SGERGHKSRPTFSITKEFILRFNQTN  
SKEKEELLEELARKIILRCKRKLGLKTLGSGRHVHLPAAWTEVIYLAQCKGEIQDESLNML  
YASLDHASFDYDHLPAFFVAESVLYRLCCDASLKYLYSVEIKLAKIGYLVFLRLFIF  
LHGHSFQKHLRLQPYLYALSFSGASYHKYPNIFSNVQFILKASEIIGKRELRSESI  
RPVEDKKRYENTDSMDGGYEINHLWHCVAAWSCVQNNSPQLNNVLEHLVFHKTQLQKKC  
WLDSVLALLVLGEAAKLNMACLKALMDVVRDFVSSIMSVQNQEESCKVDDFSWAWN VVYI  
YTVILAEICLYAATSDLRKTALIGFCHCKSSQKNILYLDKSVPELKETSILSLLEYFSS  
KMSENCQVVTGYGLVYNLVKISWELQGDEEQDGLRNMIWQTLQKTKDYEEDVRIQNA  
INIAQAELENDPTDPFTRYSTNISSNVGEEVFSKYIGWRIANTLSKLFFPPIEAHFLPLKK  
PSIKDQTKYPNKKLESVKKQVLHFTVREHPSVSEIPMFPYPDFFTKADKELAKIIDHHW  
QEELKIREKEDAICKAQELKDKKLA EKNHFQEVMMKKREKHLHKQTKPYELPYRKEVI

>sp|Q8WY98|TM234\_HUMAN Transmembrane protein 234 OS=Homo sapiens GN=TMEM234 PE=1 SV=1  
MAASLGQVLALVLAALWGGTQPLLKRASAGLQRVHEPTWAQQLQEMKTLFLNTEYLM  
PFLNQCGSLLYLTLASTDLTAVPICNSLAIFTLIVGKALGEDIGGKRAVAGMVLTVI  
GISLCITSSVPWTAELQLHGKGQLQTL SQKCKREASGTQSERFG

>sp|Q5VVB8|TM244\_HUMAN Transmembrane protein 244 OS=Homo sapiens GN=TMEM244 PE=4 SV=1  
MALQVRVAPSKVVLQKFLLCVILFYTVYYVSLSMGCVMEVHELNVLAPDFKTNPSWLN  
INVKVLLVSTEVTYFVCGLFFVPVVEEWWDYAISVTILHVAITSTMLEFPLTSHWWAA

LGISKLLV

>sp|P61165|TM258\_HUMAN Transmembrane protein 258 OS=Homo sapiens GN=TMEM258 PE=1 SV=1  
MELEAMSRYTSPVNPVFPFLTVVLLAIGMFFTAWFFVYEVTSTKYTRDIYKELLISLVA  
SLFMGFGVLFLLLVWGIYV

>sp|Q9Y2S6|TMA7\_HUMAN Translation machinery-associated protein 7 OS=Homo sapiens GN=TMA7  
PE=1 SV=1  
MSGREGGKKKPLKQPKKQAKEMDEEDKAFKQKQKEEQKKLEELKAKAAGKGPLATGGIKK  
SGKK

>sp|Q9Y3Q3|TMED3\_HUMAN Transmembrane emp24 domain-containing protein 3 OS=Homo sapiens  
GN=TMED3 PE=1 SV=1  
MGSTVPRASVLLLLLLRRAEQPCGAELTFELPDNAKQCFHEEVEQGVKFSLDYQVITG  
GHYDVDCYVEDPQGNTIYRETKKQYDSFTYRAEVKGVYQFCFSNEFSTFSHKTVYDFQV  
GDEPPILPDMGNRVLTALQMESACVTIHEALKTVIDSQTHYRLREAQDRARAEDLNSRVS  
YWSVGETIALFVVSFSQVLLLSFFTEKRPISRIVHS

>sp|P49755|TMED10\_HUMAN Transmembrane emp24 domain-containing protein 10 OS=Homo sapiens  
GN=TMED10 PE=1 SV=2  
MSGLSGPPARRGPFPLALLLFLGPRVLAI SFHLPINSRKCLREEIHKDLLVTGAYEI  
SDQSGGAGGLRSHLKITDSAGHILYSKEDATKGKFAFTTEDYDMFEVCFESKGTGRIPDQ  
LVILDMKHGVEAKNYEEIAKVEKLKPLEVELRRLEDLSEIVNDFAYMKKREEEMRDTNE  
STNTRVLYFSIFSMFCLIGLATWQVFYLRFFKAKKLE

>sp|P82094|TMF1\_HUMAN TATA element modulatory factor OS=Homo sapiens GN=TMF1 PE=1 SV=2  
MSWFNASQLSSFAKQALSQAQKSIDRVLDIQEEPSIWAETIPYGEPGISSPVSGGWDTS  
TWGLKSNTPEQPPIASPKAITKPVRRTVVDESENFFSAFLSPTDVQTIQKSPVSKPPA  
KSQRPEEEVKSSLHESLHIGQSRTPETTESQVKDSSLCVSGETLAAGTSSPKTEGKHEET  
VNKESDMKVPTVSLKVSSEVIDVKTMTMESISNTSTQSLTAETKDIALEPKEQKHEDRQSN  
TPSPPVSTFSSGTSTSDIEVLHESVISESSASSRQETDTSKSSLHLMQTSFQLLSASA  
CPEYNRLDDFQKLTESSCSDAFERIDSFSVQSLDSRSVSEINSDDDELSGKGYALVPIIV  
NSSTPKSKTVESAEGKSEEVNETLVIPTEEAEMEESGRSATPVNCEQPDILVSSTPINEG  
QTVLDKVAEQCEPAESQPEALSEKEDVCKTVEFLNEKLEKREAQLLSLSKEKALLEEAFD  
NLKDEMFRVKEESSISSLKDEFTQRIAEAEKKVQLACKERDAAKKEIKNIKEELATRLN  
SSETADLLKEKDEQIRGLMEEGKLSKQQLHNSNIKKLRAKDKENENMVAKLKVKEL  
EEELQHLKQVLDGKEEVEKQHRENIKKLNSMVERQEKLGRQLQVDMDELEEKNSIQAAL  
DSAYKELTDLHKANAADSEAQAALSRMKAKEELSAALEKAQEEARQQETLAIQVGD  
LRLALQRTEQAAARKEDYLRHEIGELQQRLQEAENRNQELSQSVSSTTRPLLRIENLQA  
TLGSQTSSWEKLEKNLSDRLGESQTLLAAVERERAATEELLANKIQMSSMESQNSLLRQ  
ENSRFQAQLESEKNRLCKLEDENRYQVELENLKDEYVRTLEETRKEKTLNLSQLEMERM  
KVEQERKKAIFTQETIKEKERKPFVSSTPTMSRSSSISGVDMAGLQTSFLSQDESHDHS  
FGPMPISANGSNLYDAVRMGAGSSIIENLQSQLKLREGEITHLQLEIGNLEKTRSIMAE  
LVKLTNQNDEEEKVKEIPKLRTQLRDLQRYNTILQMYGEKAEAEELRLDLEDVKNMY  
KTQIDELLRQSLS

>sp|Q6UXZ0|TMIG1\_HUMAN Transmembrane and immunoglobulin domain-containing protein 1  
OS=Homo sapiens GN=TMIGD1 PE=2 SV=1  
MAWKSSVIMQMGRFLLLVLFLPREMTSSVLTVNGKTENYILDTPGSQASLICAVQNHT  
REEELLWYREEGRVDLKSNGKINSSSVCSSISENDNGISFTCRLGRDQSVSVSVVLNVT

FPLLSGNDFQTVEEGSNVKLCNVKANPQAQMMWYKNSSLLDLEKSRHQIQQTSESFQL  
SITKVEKPDNGTYSCIASSLKTESLDFHLIVKDKTVGVPIEPIIAACVVIFLTLCFGLI  
ARRKKIMKLCMKDKDPHSETAL

>sp|Q96BF3|TMIG2\_HUMAN Transmembrane and immunoglobulin domain-containing protein 2  
OS=Homo sapiens GN=TMIGD2 PE=1 SV=2

MGSPGMVLGLLVQIWAQEASSLSVQQGPNLLQVRQGSQATLVCQVDQATAWERLRVKWT  
KDGAILECQPYITNGSLSLGVCGPQGRLSWQAPSHLTLQLDPVSLNHSGAYVCWAAVEIPE  
LEEAEGNITRLFVDPDDPTQNRNRIASFPGFLFVLLGVGSMGVAAIVGAWFWGRRSCQQ  
RDSGNSPGNAFYSNVLYRPRGAPKKSEDCSGEGKDQRGQSIYSTSFPQPAPRQPHLASRP  
CPSRPRCPSRPGHPVSMVRVSPRPSPTQQPRPKGFPGVGE

>sp|Q9NVH6|TMLH\_HUMAN Trimethyllysine dioxygenase, mitochondrial OS=Homo sapiens GN=TMLHE  
PE=1 SV=1

MWYHRLSHLHSRLQDLLKGGVIYPALPQPNFKSLLPLAVHWHHTASKSLTCAWQQHEDHF  
ELKYANTVMRFDYVWLDRHCRSASCYNSKTHQRSLDTASVDLCIKPKTIRLDETTLFFTW  
PDGHVTKYDLNLVKNSYEGQKQKVIQPRIWNAEIYQQAQVPSVDCQSFLNETNEGLKKF  
LQNFLLYGIAFVENVPPTQEHEKLAERISLIRETIYGRMWYFTSDFSRGDTAYTKLALD  
RHTDITYFQEPGCIQVFHCLKHEGTGGRTLLVDGFYAAEQVLQKAPEEFELLSKVPLKHE  
YIEDVGECNHNMIGIPVLNIYPWNKELYLIRYNNYDRAVINTVPYDVHRWYTAHRTLT  
IELRRPENEFWVKLPGRVLFIDNWRVLHGRCFTGYRQLCGCYLTRDDVLNTARLLGLQ  
A

>sp|Q6ZUK4|TMM26\_HUMAN Transmembrane protein 26 OS=Homo sapiens GN=TMEM26 PE=1 SV=1

MEGLVFLNALATRLFLHSLVGWVRVTEVKKEPRYWLLALLNLLLLETALTLKFKRGR  
GYKWFSPAIFLYLISIVPSLWLELHHETQYCSQAEGTSQNTSRKEDFNQTLTSNEQTS  
RADDLIETAKVFVNNLSTVCEKVWTLGLHQTFLLMLIIGRWLLPIGGGITRDQLSQQLLM  
FVGTAADILEFTSETLEEQNVRNSPALVYAILVIWTWSMLQFPLDLAVQNVVCPVSVTER  
GFPSLFFCQYSADLWNIGISVFIQDGPFLVVRILMTYFKVINQMLVFFAAKNFLVVVLQ  
LYRLVVLALAVRASLRSQSEGLKGEHGCRAQTSESGPSQRDWQNESKEGLAIPLRGSPVT  
SDDSHHTP

>sp|P32971|TNF8\_HUMAN Tumor necrosis factor ligand superfamily member 8 OS=Homo sapiens  
GN=TNFSF8 PE=2 SV=1

MDPGLQQALNGMAPPDGTAMHVPAGSVASHLGTTSRSYFYLTATLALCLVFTVATIMVL  
VVQRTDSIPNSPDNVPLKGGNCSEDLICILKRAPFKKSWAYLQVAKHLNKTLSWNKDG  
LHGVRYQDGNLVIQFPGLYFIICQLQFLVQCPNNSVDLKLELLINKHIKKQALVTVCESG  
MQTKHVYQNLSQLLDYLQVNTTISVNVDTFQYIDTSTFPLENVLSIFLYSNSD

>sp|Q96B49|TOM6\_HUMAN Mitochondrial import receptor subunit TOM6 homolog OS=Homo sapiens  
GN=TOMM6 PE=1 SV=1

MASSTVPVSAAGSANETPEIPDNVGDWLRGVYRFATDRNDFRRNLILNLGLFAAGVWLAR  
NLSDIDLMAQQPGV

>sp|Q02880|TOP2B\_HUMAN DNA topoisomerase 2-beta OS=Homo sapiens GN=TOP2B PE=1 SV=3

MAKSGGCGAGAGVGGNGALTWVTLFDQNNAAKKEESETANKNDSSKKLSVERVYQKKTQ  
LEHILLRPDTYIGSVEPLTQFMWVYDEDVGMNCREVTFVPGLYKIFDEILVNAADNKQRD  
KNMTCIKVSIDPESNIIISIWNNKGIPVVEHKVEKVYPALIFGQLLTSSNYDDDEKKVT  
GGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTMNNMMKTSEAKIKHFDGEDYTCITF  
QPDLSKFKMEKLDKDIVALMTRRAYDLAGSCRGVKVMFNGKKLPVNGFRSYVDLYVKDKL

DETGVALKVIHELANERWDVCLTLSEKGFQQISFVNSIATTKGGRHVDYVVDQVVGKLIE  
VVKKKNKAGVSVKPFQVKNHIWVFINCL IENPTFDSQTKENMTLQPKSFGSKCQLSEKFF  
KAASNCGIVESILNWVKFAQTQLNKKCSSVKYSKIKGIPKLDDANDAGGKHSLECTLIL  
TEGDSAKSLAVSGLGVIGRDYGVFPLRGKILNVREASHKQIMENAEINNI IKIVGLQYK  
KSYDDAESLKT LRYGKIMIMTDQDQDGS HIKGLLINFIHNNWPSLLKHGFLEEFITP IVK  
ASKNKQELSFYSIPEFDEWKKHIENQKAWKIKYKGLGTSTAKEAKEYFADMERHRILFR  
YAGPEDDAAITLAFSKKKIDDRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFI  
NKELILFSNSDNERSIPSLVDGFKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSAYHH  
GEQALMMTIVNLAQNFVGSNNINLLQPIGQFTRLHGGKDAASPRYIFTMLSTLARLLFP  
AVDDNLLKFLYDDNQ RVEPEWYIPIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRRM  
LDGLDHPMLPNYKNFKGTIQELGQNQYAVSGEIFVVD RNTVEITELPVRTWTQVYKEQV  
LEPMLNGTDKTPALISDYKEYHTD TTVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLTCNS  
MVLFDHMGCLKKYETVQDILKEFFDLRLSY YGLRKEWLVGMLGAESTKLNNQARFILEKI  
QGKITIENRSKKDLIQMLVQRGYESDPVKAWKEAQEAAEEDETQNNQHDDSSSDSGTPSG  
PDFNYILNMSLWSLTKEKVEELIKQRDAKGREVN DLKRKSPSDLWKEDLAAFVEELDKVE  
SQEREDVLAGMSGKAIKGVGPKPKVKKLQLEETMPSPYGRRIIPEITAMKADASKLLKK  
KKGDLDTAAVKVEFDEEFSGAPVEGAGEEALTPSVPINKGPKPKREKKEPGTRVRKTPTS  
SGKPSAKKVKKRNPWSDDESKSES DLEETEPVVIPRDSLLRRAAERP KYTFDFSEEEEDD  
DADDDDDNNDLEELKVKASPI TNDGEDEFVPSDGLDKDEYTFSPGKSKATPEKSLHDKK  
SQDFGNLFSFPSYSQKSEDDSAKFSNEEDSASVFSPSFG LKQTDKVP SKTVAACKGKPS  
SDTPVKPKRAPKQKKVVEAVNSDSDSEFGIPKKT TTPKGKGRGAKKRKASGSENEG DYNP  
GRKTSKTTSKPKKTSFDQDSDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDV  
DFAMFN

>sp|Q8N9V7|TOPZ1\_HUMAN Testis- and ovary-specific PAZ domain-containing protein 1 OS=Homo  
sapiens GN=TOPAZ1 PE=2 SV=3

MRRPPPLGPTTASGPEGNVRNLQKRQAPGPGAAGGCGPEAGGCRENKQKRRMVARATPGR  
GEVESDKSVAASGAGKAARRQVEGRRGPVSPSDSDPRGLEAAKEAELPLQTERHTKEKR  
KVTEASSDDPQPGLDLVRKESLTSSSEFQTVECLQSLGKESIIEGIKRRIRNKKLSLEN  
PPLKITENEATQNIKVEFQDELYKNTPKYSCNLSPEVENNSVLKLRDCNCFPHSKGCND  
ENNLPHYKPDGGCMHVAENFSKKENLRSLAEKSDTNSIPQLLQTEENVMGVNKLLPEESDL  
YQSKTNGLLSCLQHEKNKYSIEESSVGRKPRKRMKLSEKADETVTEMNFSNEYNKSELML  
QENQMIADGKEAETKSPLNLVRKVSHNTVSLMDHLLSVPETVEKETSS EHHVNAV FQKTI  
EPLLKEETENASEPLGYESMASKEDFKSMKSF IGKSPNEYHIERRSSREDLRSASEELKL  
SCQRTIPMTGKRTWPYYSCARISAWCWWKASLPESYFLRGSQESCRQVDVPKHQTNQTH  
LTDSKLLLQSSLTETNT ESSSKEKLDSNSNCLSSVSAVEPTLMV IKEPIIKDDKKIKSEE  
LSRRGSEVISNTTEDTQLTSETQSLTG NKKKARGNLTKLNLTATSKD GQEANNSAGKTIH  
RKACIAQQTFIVPDLVKILNTGRLTNFKIPLLNKSEKRKEVNAKSSEREAYSPLELLDN  
LSGADVRQNRSKENVSMMMLGPQTLSIRNSVTPVQASSDSFYNNKSYSISPSFTKQGNS  
KPSNHVSEPGNIVSNKEVASLTVENNAFSCDPGYVEKSPSFCCNEQETFRPVSSEVRGRK  
ITKNFSEVGFPDILKAYEDDVLLIDVIQDDPDLFGVSNEGELSFTSEVPKISQEPNVAGE  
HQSTD SKYMETPVKKEPSDDLREL PVLD CGWIKPDICASNSAESEIKRDPKDVNTSLGEV  
ANETSENETLGD FSEQIKGSDLDEKHRFTDKVITKEEKENIYEVCKSKDSRNADFMVGEC  
QFAVPVPKPLCLLVPLNLSGRQEDTILNTWMNDFRFLGKHSVLKLQNPETCEIFKREKN  
VGVFQKSLGLMIPYKYCKFHFNTLRGCERPLCKFAHVPEQGDEKVCMDVFKKYININELC



LLQRAVNIFMEYYRKFPFPGVYFDLQVLNDLLNSLLKHCLLKEVFQIVNLSIMVKMLPSLK  
ILLNIFEYVATMKLRNAV PALIDIFCKLVEAGMVLDP EHFNYIVKLLYQVQASKQEITAV  
LEMKSRLQMR RFKNWKC DLSALN KLEHCKEKG DWTKLGKLYINVKMGC EKFADFQTFC  
ACIAETLTKNYEDERPDIPFCEFAETVSKDPQNSKVDKGVLGRIGISAMYFYHKLLQWSK  
GRKVLEKLYELKIHFTSLKGLIGPEKLASRCQIVNVAEIFLKSGSLDGAIWVMRESEWI  
INTPLWPCDRLDVLNRHNLCTIAHEILAKSLYRQTFEVLQNLPGFQNSQETVEVSQYSL  
LFNKLLGSCI ESSSLGMSSVAEFMISK SIPIDFSFLRRLITSLGRSRLWLKARAHYKSA  
LSLGCYPPLEG NLYRKLLL IPSYLSEIEMLLAIEIFMVS NASSIQSPGTSTQILQIVLKR  
CEDNQSR SNDDYQA AVERL IMAARISDPKLFVKHMTVNVNKEQVYSLEHCSALKWLKENM  
KWAGKVWLF SNH

>sp|075365|TP4A3\_HUMAN Protein tyrosine phosphatase type IVA 3 OS=Homo sapiens GN=PTP4A3  
PE=1 SV=2

MARMNR PAPVEVSYKHM RFLITHNPTNATLSTFIEDLK KYGATTVV RVCEVTYDKTPLEK  
DGITVVDWPFDDGAPPPGKVVEDWLSLVKAKFCEAPGSCVAVHCVAGLGRAPVLVALALI  
ESGMKYEDAIQFIRQKRRGAINSKQLTYLEKYRPKQRLRFKDPHTHKTRCCVM

>sp|PODI81|TPC2A\_HUMAN Trafficking protein particle complex subunit 2 OS=Homo sapiens  
GN=TRAPPC2 PE=1 SV=1

MSGSFYFVI VGHHDNPVFEMEFLPAGKAESKDDHRHLNQFIAHAALDLVDENMWLSNNMY  
LKTVDKFN EWFVS AFVTAGHMR FIMLHDIRQEDGIKNFFT DVYDLYIKFSMNPFYEPNSP  
IRSSAFDRKVQFLGKKHLLS

>sp|Q5T215|TPC3L\_HUMAN Trafficking protein particle complex subunit 3-like protein  
OS=Homo sapiens GN=TRAPPC3L PE=1 SV=1

MSRPAHRRPEYHKINKDLFVLTYGALVAQLCKDYEKDEDVNQYLDKMGYGIGTRLVEDFL  
ARSCVGRCHSYSEIIDIIAQVAFKMYLGITPSVTCNNSKNEFSLILEKNPLVEFVEELP  
AGRSSLCYCNLLCGIIRGALEMVHLAADVTFLQDRLKGD SVTEIGITFLKKRDEKKYRGK  
K

>sp|Q86SZ2|TPC6B\_HUMAN Trafficking protein particle complex subunit 6B OS=Homo sapiens  
GN=TRAPPC6B PE=1 SV=1

MADEALFLLLHNEMVSGVYKSAEQGEVENGRCITKLENMGFRVQGGLIERFTKDTARFKD  
ELDIMKFICKDFWTTVFKKQIDNLRTNHQGIYVLQDNKFRLLTQMSAGKQYLEHASKYLA  
FTCGLIRGGLSNLGIKSIVTAEVSSMPACKFQVMIQKL

>sp|Q86W33|TPRA1\_HUMAN Transmembrane protein adipocyte-associated 1 OS=Homo sapiens  
GN=TPRA1 PE=2 SV=1

MDTLEEVTWANGSTALPPPLAPNISVPHRCLLLLYEDIGTSRVRYWDLLLLIPNVLFLIF  
LLWKLPSARAKIRITSSPIFITFYILVFVVALVG IARAVVSMTVSTSNAA TVADKILWEI  
TRFFLLAIELSVIILGLAFGHLESKSSIKRVLAITTVLSLAYSVTQGTLEILYPDAHLSA  
EDFNIYGHGGRQFWLVSSCFFLVYSLVILPKTPLKERISLPSRRSFVYAGILALLNL  
LQGLGSVLLCFDIIIEGLCCVDATTFLYFSFFAPLIYVAF LRGF GSEPKILFSYKCQVDE  
TEEPDVHLPQPYAVARREGLEAAGAAGASAASYSSTQFDSAGGVAYLDDIASMPCHTGS I  
NSTDSERWKAINA

>sp|Q8N7U7|TPRX1\_HUMAN Tetra-peptide repeat homeobox protein 1 OS=Homo sapiens GN=TPRX1  
PE=2 SV=3

MLSLEQQQLQVWFKNRRAKLARERRLQQQPQRVPGQRGRGARAAPLVPAASASAPQRGPS  
GILPAAEPTICSLHQAWGGPGCRAQKGIPAALSPGPGPIPAPIPGAQIPGPLPGSIPGP

IPGPAQIPSPIPAPIPGPISGPVQIPGPFGRGPIPGPISGPAPIPGPISGPFSGPNPGPIP  
GPNPGPIPGPISGPIPGPISVPIPGPIPGPISGPISGPNPGPIPGPIPGPISGPNPGPIP  
GPISGPNPGLIPGPIPGPISGPGPIIGPIPSPAQIPGPGRLQGPGPILSPGRMRSPGSLP  
GLAPILGPGSGPGSGSVPAIPGPGSLPAPAPLWPQSPDASDFLPDTQLFPHFTELLPL  
DPLEGSSVSTMTSQYQEGDDSMGKKHSGSQPQEEGGSVNENHSGPRLLLDL

>sp|Q9ULW0|TPX2\_HUMAN Targeting protein for Xklp2 OS=Homo sapiens GN=TPX2 PE=1 SV=2

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEKANLENKLLGKNGTGGLFQGKTP  
LRKANLQQAIVTPLKVPDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQQR  
SLRLSAQKDLEQKEKHHVMMKAKRCATPVIIDEILPSKKMKVSNNKKKPEEEGSAHQDTA  
EKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEVVEMRKNNEEFKKLAL  
AGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEYKEVNFTSELRKHPSSPARVTKG  
CTIVKPFNLQSGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSV  
TKICRDPQTPVLQTKHRARAVTCKSTAELEAELEKLQYKFKARELDPRILEGGPILPK  
KPPVKPPTPIGFDLEIEKRIQERESKKKTEDEHFEFHSRPCPTKILEDVVGVPKVKLP  
ITVPKSPAFALKNRIMPTKEDEEEDPVV IKAQVPVPHYGVFPKQIPEARTVEICPFSF  
DSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTQIEPFCLETDRR  
GALKAQTWKHQLEELRQQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPF  
QLATEKRAKERQELEKRMAEVEAQKAQLEEARLQEEQKKEELARLRRELVHKANPIRK  
YQGLEIKSSDQPLTVPVSPKFSTRFHC

>sp|Q9H4I3|TRABD\_HUMAN TraB domain-containing protein OS=Homo sapiens GN=TRABD PE=1 SV=1

MDGEEQQPPHEANVEPVVPSEASEPVPRVLSGDPQNLSDVDAFNLLLEMLKRRRQRPNL  
PRTVTQLVAEDGSRVYVVGTAHFSDDSKRDVVKTIREVQPDVVVVELCQYRVSMKMD  
TLLREAQELSLEKLQAVRQNGLSGLMQMLLLKVS AHITEQLGMAPGGEFREAFAKASK  
VPFCKFHLGDRPIPVTFKRAIAALSFWQKVRLAWGLCFLSDPISKDDVERCKQKDLLEQM  
MAEMIGEFDPDLHRTIVSERDVYLTMYLRQAARRLELPRASDAEPRKCVSVVVGVMGH  
VPGIEKNWSTDNLNIEIMTVPPPSVSGRVSR LAVKAAFFGLGYSLYWMGRRTASLVLSL  
PAAQYCLQRVTEARHK

>sp|O00463|TRAF5\_HUMAN TNF receptor-associated factor 5 OS=Homo sapiens GN=TRAF5 PE=1 SV=2

MAYSEEHKGMPCGFIRQNSGNSISLDFEPSIEYQFVERLEERYKCAFCHSVLHNPHTGC  
GHRFCQHICILSLRELNTVPICPVDKEVIKSQEVFKDNCKREVLNLYVYCSNAPGCNAKV  
ILGRYQDHLQQCLFPVQCSNEKREPVLRKDLKEHLSASCQFRKEKCLYCKKD VVVINL  
QNHEENLCPEYPVFCPNNAKII LKTEVDEHLAVCPEAEQDCPFKHYGCAVTDKRRNLQQ  
HEHSALREHMRLVLEKNVQLEEQISDLHKSLEQKESKIQQLAETIKKLEKEFKQFAQLFG  
KNGSFLPNIQVFASHIDKSAWLEAQVHQLLMVNQQQNKFDLRPLMEAVDTVKKITLLE  
NNDQRLAVLEEETNKHDTHINIHKAQLSKNEERFKLLEGTCYNGKLIWKVTDYKMKKREA  
VDGHTVSIFSQSFYTSRCGYRLCARAYLNGDGSGRGSHLSLYFVVMRGEFDSLLQWPFQR  
RVTLMLLDQSGKKNIMETFKPDPNSSSFKRPDGEMNIASGCPRFVAHSVLENAKNAYIKD  
DTLFLKVAVDLTDLEDL

>sp|Q96F44|TRI11\_HUMAN E3 ubiquitin-protein ligase TRIM11 OS=Homo sapiens GN=TRIM11 PE=1 SV=2

MAAPDLSTNLQEEATCAICLDYFTDPVMTDCGHNFCRECIRRCWGQPEGPYACPECRELS  
PQRNLRPNRLAKMAEMARRLHPPSPVPQGVCPAHREPLAAFCGDELRLCAACERSGEH  
WAHRVRPLQDAAEDLKAKLEKSLEHLRKQMQDALLFQAQADETCVLWQKMVESQRQNVLG

EFERLRRLLAEEEQQLLQRLEEEELVLPRLREGAAHLGQSAHLAELIAELEGRCQLPA  
LGLLQDIKDALLRRVQDVKLQPPEVVPME LR TVCRVPGLVETLRRFRGDTVLD PDTANPEL  
ILSEDRRSVQRGDLRQALPDSPERFDPGPCVLGQERFTSGRHYWEVEVDRTSWALGVCR  
ENVNRKEKGELSAGNGFWILVFLGSYYNSSERALAPLRDPPRRVGIFLDYEAGHLSFYSA  
TDGSLLFIFPEIPFSGTLRPLFSPLSSSPTPMTICRPKGGSGDTLAPQ

>sp|Q12899|TRI26\_HUMAN Tripartite motif-containing protein 26 OS=Homo sapiens GN=TRIM26  
PE=1 SV=1

MATSAPLRSL EEVTCSICLDYLRDPVTIDCGHVFCRSCTTDVRPISGSRPVCPLCKKPF  
KKENIRPVWQLASLVENIERLKV DKG RQPGEVTREQQDAKLCERHREKLHYYCEDDGKLL  
CVMCRE SREHRPHTAVLMEKAAQPHREKILNHLSTLRRDRDKIQGFQAKGEADILAALKK  
LQDQRQYIVAEFEQGHQFLREREEHLLQLAKLEQELTEGREKFKSRGVGELARLALVIS  
ELEGKAAQPAAELMQDTRDFLNRYPRKKFWVGKPIARVVKKKTGEFSDKLLSLQRGLREF  
QGKLLRDLEYKTVSVTLDPQSASGYLQ SEDWKCVTYTSLYKSAYLHPQQFDCEPGVLGS  
KGFTWGKVYWEVEVEREGWSEDEEEGDEEEEGEEEEEEEEAGYGDGYDDWETDEDEESLG  
DEEEEEEEEEEEVLESCMVGVARDSVKRKGDLSLRPEDGVWALRLSSSGIWANTSPEAEL  
FPALRPPRVGIALDYEGGTVTFTNAESQELIYTFTATFTRRLVPFLWLKWPGRLLLRP

>sp|Q14134|TRI29\_HUMAN Tripartite motif-containing protein 29 OS=Homo sapiens GN=TRIM29  
PE=1 SV=2

MEAADASRSNGSSPEARDARSPSGPSGLEN GTKADGKDAKTTNGHGGEAAEGKSLGSAL  
KPEGRSALFAGNEWRRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGA AKKPPVT  
FAEKGELRKSIFSES RKPTVSIMEPGETRRNSYPRADTGLFSRSKSGSEEVLC DSCIGNK  
QKAVKSCLVCQASFCELHLKPHLEGA AFRDHQLLEPIRDFEARKCPVHGKTMELFCQTDQ  
TCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKII EIEDEAEKWQKEKDRIK  
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHED  
KQTREQLHSISDSVLF LQEFGALMSNYSLPPPLPTYHV LLEGEGLGQSLGNFKDDL NVC  
MRHVEKMCKADLSRNFIERNHMENGGDHRYVNNYTN SFGGESAPDTMKRYSMYLTPKGG  
VRTSYQPSSPGRFTKETTQKNFN NLYGTKGNYTSRVWEYSSSIQNSDNDLPVVQSSSFS  
LKGYPSLMRSQSPKAQPQTWKS GKQTMLSHYRPFYV NKGNGIGSNEAP

>sp|O94972|TRI37\_HUMAN E3 ubiquitin-protein ligase TRIM37 OS=Homo sapiens GN=TRIM37 PE=1  
SV=2

MDEQSVESIAEVFRFCICMEKLRDARLCPHCSKLCCFSCIRRWLTEQRAQCPHCRAPLQL  
RELVNCRWAE EVTQQLDTLQLCSLTKHEENEKDKCENHHEKLSVFCWTCKKCICHQCALW  
GGMHGGHTFKPLAEIYE QHVTKVNEEVAKLRRRLMELISLVQEVERNVEAVRNAKDERVR  
EIRNAVEMMIARLDTQLKNKLITLMGQKTSLTQETELLESLLQEVEHQLRSCSKSELISK  
SSEILMMFQQVHRKPMASFV TTPVPDF TSELVPSYDSATFVLENFSTLRQ RADPVYSPP  
LQVSGLCWRLKVYPDGN GVV RGYLSVFLELSAGLPETSKYEYRVEMVHQCNDPTKNII  
REFASDFEVGECWGYNRFFRLDLLANEGYLNPNQNDTVILRFQVRSPTFFQKSRDQHWYIT  
QLEAAQTSYIQQINNLERLTIELSRTQKSRDLSPDNHLS PQNDDALETRAKKSACSDM  
LLEGGPTTASVREAKEDEE DEEKIQNEDYHHELSDGDLDLVYEDEVNQLDGSSSSASS  
TATSNT EENDIDEETMSGENDVEYNNMELEEGELMEDAAAAGPAGSSHGYVGSSSRISRR  
THLCSAATSSLLDIDPLILIHLLDKDRSSIENLWGLQPRPPASLLQPTASYSRKDKDQR  
KQQAMWRVPSDLKMLKRLKTQMAEVRCKMTDVKN TLSEIKSSSAASGDMQTSLSFADQAA  
LAACGTENSGRLQDLGMELLAKSSVANCYIRNSTNKKSNSPKPARSSVAGSLSLRAVDP  
GENSRSKGDCQTLSEGPSGSSQSGSRHSSPRALIHG SIGDILPKTEDRQCKALDS DAVVV

AVFSGLPAVEKRRKMVTLGANAKGGHLEGLQMTDLENNSETGELQPVLP EGASAAPEEGM  
SSSDSIECDTENEEQEEHTSVGGFHDSFMVMTQPPDEDTHSSFPDGEQIGPEDLSFNTDE  
NSGR

>sp|Q8NG06|TRI58\_HUMAN E3 ubiquitin-protein ligase TRIM58 OS=Homo sapiens GN=TRIM58 PE=2  
SV=2

MAWAPPGERLREDARCPVCLDFLQEPVSVDCGHSFCLRCISEFCEKSDGAQGGVYACPQC  
RGFPRPSGFRPNRQLAGLVESVRLGLGAGPGARRCARHGEDLSRFCEEDEAALCWVCDA  
GPEHRTHRTAPLQEAAGSYQVKLQMALELMRKELEDALTQEANVGKKTVIWKEKVEMQRQ  
RFRLEFEKHRGFLAQEEQRQLRRLEAEERATLQRLRESKSRLVQQSKALKELADELQERC  
QRPALGLLEGVRGVLRSKAVTRLEAENIPMELKTACCIPGRRELLRKQVDVKLDPATA  
HPSLLLTA DLRSVQDGPWRDVPNNPERFDTWPCILGLQSFSSGRHYWEVLVGEGAEWGL  
GVCQDTLPRKGETTSPENGWALWLLKGNEYMLASPSVPLLQLESPRCIGIFLDYEAG  
EISFYNVTDGSIYTFNQLFSGLLRPYFFICDATPLILPPTTIAGSGNWASRDHLDPASD  
VRDDHL

>sp|Q8IWR1|TRI59\_HUMAN Tripartite motif-containing protein 59 OS=Homo sapiens GN=TRIM59  
PE=1 SV=1

MHNFEELTCPICYSIFEDPRVLPCSHTFCRNCLLENILQASGNFYIWRPLRIPLKCPNCR  
SITEIAPTGIESLPVNFALRAIIEKYQQEDHPDIVTCPEHYRQPLNVYCLLDKKLVCGHC  
LTIGQHHGHPIDDLQSAYLKEKDTPQKLLEQLTDTHWTDLTHLIEKLKEQKSHSEKMIQG  
DKEAVLQYFKELNDTLEQKKKSFLTALCDVGNLINQEYTPQIERMKEIREQQLELMALTI  
SLQEESPLKFLEKVDVVRQHVQILKQRPLPEVQVPEIYPRVSKILKEEWSRTEIGQIKNV  
LIPKMKISPKRMSCSWPGKDEKEVEFLKILNIVVVT LISVILMSILFFNQHIITFLSEIT  
LIWFSEASLSVYQSLSNSLHKVKNILCHIFYLLKEFVWKIVSH

>sp|Q6ZTA4|TRI67\_HUMAN Tripartite motif-containing protein 67 OS=Homo sapiens GN=TRIM67  
PE=2 SV=3

MEEELKCPVCGSLFREPIILPCSHNVCLPCARTIAVQTPDGEQHLPPQLLLSRGSGLQAG  
AAAAASLEHDAAGPACGGAGGSAAGGLGGGAGGGGDHADKLSLYSETDSGYGSYTPSLK  
SPNGVRVLPMPAPPGSSAAAARGAACSSLSSSSSSITCPQCHRSASLDHRGLRGFQRNR  
LLEAIVQRYQQGRGAVPGTSAAAAVAICQLCDRTPPEPAATLCEQCDVLYCSACQLKCHP  
SRGPFAKHRLVQPPPPPPPAEASGPTGTAQGAPSGGGGCKSPGGAGAGATGGSTARKF  
PTCPEHEMENYSMYCVSCTPVCYLCLEEGRHAKHEVKPLGAMWKQHKQALSQALNGVSD  
KAKEAKEFLVQLKNILQQIQENGLDYEACLVAQCDALVDALTRQAKLLTKVTKEREHLK  
KMVWDQINHCTLKLRQSTGLMEYCLEVIKENDPSGFLQISDALIKRVQVSQEQWVGGALE  
PKVSAEFDLTLDSEPLLQAIHQLDIFIQMKCRVPPVPLLQLEKCTRNNSVTLAWRMPPFT  
HSPVDGYILELDDGAGGQFREYVVGKETLCTIDGLHFNSTYNARVKAFNSSGVPYSKTV  
VLQTSDDVAWFTFDPSNGHRDIILSNDNQATATCSSYDDRVLGTAAFSKGVHYWELHVDRI  
DNHPDPAFGVARASVVKDMLGKDDKAWAMYVDNNRSWFMHCNSHTNRTEGGVCKGATVG  
VLLDLNKHHTLTFINGQQQGPTAFSHVDGVFMPALSLNRNVQVTLHTGLEVPNTLGRPKL  
SGN

>sp|Q86UV7|TRI73\_HUMAN Tripartite motif-containing protein 73 OS=Homo sapiens GN=TRIM73  
PE=2 SV=1

MAWQVSLELEDRLQCPICLEVFKESLMLQCGHSYCKGCLVSLSYHLDTKVRCPMCWQVV  
DGSSSLPNVSLAWVIEALRLPGDPEPKVCVHHRNPLSLFCEKDQELICGLCGLLGSHQHH  
PVTVPSTVCSRMEELAALFSELKQEQKKVDELI AKLVKNRTRIVNESDVFSWVIRREFQ

ELRHPVDEEKARCLEGIGGHTRGLVASLDMQLEQAQGTRERLAQAEVCLEQFGNEDHHEF  
IWKFHSMASR

>sp|I1YAP6|TRI77\_HUMAN Tripartite motif-containing protein 77 OS=Homo sapiens GN=TRIM77  
PE=2 SV=2

MASAITQCSTSELTCSICTDYLTDPVTICCGHRFCSPCLCLLWEDTLTPNCCPVCREISQ  
QMYFKRIIFAQKQVIPTRSVPCQLSSSAMLICRRHQEIKNLICETDRSLLCFLCSQSPR  
HATHKHMTREADEYYRKKLLIQMKSIIWKKKQKNQRNLNRETNIIGTWVFINLRSMMS  
AEYPKVCQYLREEEQKHVESLAREGRIIFQQLKRSQTRMAKMGILLREMYEKLKEMSCKA  
DVNLPQDLGDVMKRNEFLRLAMPQPVNPQLSAWTITGVSERLNFVRVYITLDRKICSNHK  
LLFEDLRHLQCSLDDTDMSCNPTSTQYTSSWGAQILSSGKHYWEVDVKDSCNWVIGLCRE  
AWTKRNDMRLDSEGIFLLLCLKVDDHFSLSFSTSPLLPHYIPRPQGWLGVFLDYECGIVSF  
VNVAQSSLICSFLSRIFYFPLRPFICHGSK

>sp|Q92519|TRIB2\_HUMAN Tribbles homolog 2 OS=Homo sapiens GN=TRIB2 PE=2 SV=1

MNIHRSTPITIARYGRSRNKTQDFEELSSIRSAEPSQSFSPNLGSPSPPETPNLSHCVSC  
IGKYLLLEPLEGDHVFRAVHLHSGEELVCKVFDISCYQESLAPCFCLSAHSNINQITEII  
LGETKAYVFFERSYGMHSFVRTCKKLREEEAARLFYQIASAVAHCHDGGVLRLDLKLRK  
FIFKDEERTRVKLESLEDAYILRGDDDSLSDKHGCPAYVSPEILNTSGSYSGKAADVWSL  
GVMLYTMLVGYPFHDIEPSSLFSKIRRGQFNIPETLSPKAKCLIRSILRREPSERLTSQ  
EILDHPWFSTDFSVSNSAYGAKEVSDQLVPDVNMEENLDPFFN

>sp|Q9C040|TRIM2\_HUMAN Tripartite motif-containing protein 2 OS=Homo sapiens GN=TRIM2  
PE=1 SV=1

MASEGTNIPSPVVRQIDKQFLICSLERYKNPKVLPCLHTFCERCLQNYIPAHSLLTSC  
PVCQRQTSILPEKGVAALQNNFFITNMDVLQRTPGSNAAESSILETVTAVAAGKPLSCP  
HDGNVMEFYCQSCETAMCRECTEGEHAHPTVPLKDVVEQHKASLQVQLDAVNKRLPEID  
SALQFISEIIHQLTNQKASIVDDIHSTFDELQKTLNVRKSVLLMELEVNYGLKHKVLQSQ  
LDTLLQGQESIKSCSNFTAQALNHGTETEVLLVKKQMSEKLNELADQDFPLHPRENDQLD  
FIVETEGLKKSIIHNLGTILTTNAVASETVATGEGLRQTIIGQPMSTITTKDKDGELCKT  
GNAYLTAELESTPDGSAVDGEILDNKNGTIEFLYTVQKEGDFTLRLYDQHIRGSPFKLK  
VIRSADVPTTEGVKRRVKSPGSGHVKKAVKRPASMYSTGKRKENPIEDDLIFRVGTGK  
RNKGFTNLQGVAASTNGKILIASNNQCVQIFSNDGQFKSRFGIRGRSPGQLQRPTGVA  
VHPSGDIIADYDNKWSIFSSDGKFKTKIGSGKLMGPKGVSVDRNGHIIIVVDNKACCVF  
IFQPNGKIVTRFSGRNGDRQFAGPHFAAVNSNNEIIITDFHNHSVKVFNQEGEFMLKFG  
SNGEGNGQFNAPTGVAVDSNGNIIVADWGSRIQVFDGSGSFLSYINTSADPLYGPQGLA  
LTSDGHVVVADSGNHCFKVYRYLQ

>sp|Q8N7C3|TRIMM\_HUMAN Probable E3 ubiquitin-protein ligase TRIML2 OS=Homo sapiens  
GN=TRIML2 PE=1 SV=1

MVCGIQEAAENYRKLQFEILNTSREKLEAAKSILTDEQERMAMIQEEQNFKKMIIESEYS  
MRLRLNEECEQNLQRQCECISDLNLRNRETLLNQAIKLATELEEMFQEMLRGRVGRNEM  
EKLKESEARASEQVRSLLKLIVELEKKCGEGTLALLKNAKYSLSRSKSLLEHLEPAHIT  
DLSLCHIRGLSSMFRVLQRHLTDPETAHPCALSEDLRMTLRHGGQDGAGNPERLDFS  
AMVLAESFTSGRHYWEVDVEKATRWQVGIYHGSADAKGSTARASGEKVLLTGSVMGTEW  
TLWVFPPLKRLFLEKKLDTVGVFLDCEHGQISFYNVTEMSLIYNFSHCAFQGALRPVFSL  
CIPNGDTSPDSLITLQHGPSCDATVSP

>sp|Q15650|TRIP4\_HUMAN Activating signal cointegrator 1 OS=Homo sapiens GN=TRIP4 PE=1 SV=4

MAVAGAVSGEPLVHCTQQLRKTFGLDVSEEIIQYVLSIESAEEIREYVTDLLQGNEGKK  
GQFIEELITKWQKNDQELISDPLQQCFKKDEILDGQKSGDHLKRGRKKGRNRQEVPAFTE  
PDTTAEVKTFFDLAKAQENSNSVKKKTKFVNLYTREGQDRLAVLLPGRHPCDCLGQKHKL  
INNCLICGRIVCEQEGSGPCLFCGTLVCTHEEQDILQRDSNKSQKLLKKLMSGVENSQKV  
DISTKDLLPHQELRIKSGLEKAIKHKDKLLEFDRTSIRRTQVIDDESDFASDSNQWLSK  
LERETLQKREEELRELRHASRLSKKVTIDFAGRKILEEENSLAEYHSRLDETIQAIANGT  
LNQPLTKLDRSSEEPGLVLPVNPYQSPQWVDHTGAASQKKAFRSSGFGLEFNSFQHQL  
RIQDQEFQEGFDGGWCLSVHQPWASLLVRGIKRVEGRSWYTPHRGRLWIAATAKKPSPQE  
VSELQATYRLLRGKDVEFPNDYPSGCLLGCVDLIDCLSQQKFKEQFPDISQESDSPFVFI  
CKNPQEMVVKFPIKGNPKIWKLDISKIHKQAKKGLMKQNKAV

>sp|Q7Z4G4|TRM11\_HUMAN tRNA (guanine(10)-N2)-methyltransferase homolog OS=Homo sapiens  
GN=TRMT11 PE=1 SV=1

MALSCTLNRYLLMAQEHLEFRLPEIKSLLLLFGGQFASSQETYGKSPFWILSIPSEDIA  
RNLMKRTVCAKSIFELWGHGQSPEELYSSLKNYPVEKMVPFLHSDSTYKIKIHTFNKTLT  
QEEKIKRIDALEFLPFEGKVNKKPQHVFVSVLEDYGLDPCIPENPHNIYFGRWIADGQR  
ELIESYSVKKRHFIGNTSMDAGLSFIMANHGKVKENDIVDFPFVGTGGLLIACAHFGAYV  
YGTIDYNTVHGLGKATRKNNQWRGPDENIRANLRQYGLEKYYLDVLVSDASKPSWRKGT  
YFDAIITDPPYGIRESRRTGSQKEIPKGIKWEKCPESHVPVSLSYHLSDMFLDLLNFA  
AETLVLGGRVLVYWPVYTPYEYTEMVPWHPCLELVSNCEQKLSSHTSRRLITMEKVKKFE  
NRDQYSHLLSDHFLPYQGHNSFREKYFSGVTKRIAKEEKSTQE

>sp|Q9UJA5|TRM6\_HUMAN tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit  
TRM6 OS=Homo sapiens GN=TRMT6 PE=1 SV=1

MEGSGEQPGPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKVTFEKQWFYLDNVIGH  
SYGTAFEVTSGGSLQPKKKREEPTAETKEAGTDNRNIVDDGKSQKLTDQDIKALKDKGIK  
GEEIVQQLIENSTTFRDKTEFAQDKYIKKKKKKYEAIITVVKPSTRILSIMYYAREPGKI  
NHMYDTLAQMLTLGNIRAGNMIVMETCAGLVLGAMMERMGFGSIIQLYPGGGPVRAA  
TACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ  
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQRKRHLEA  
AALLSERNADGLIVASRFHPTPLLSLLDFVAPSRPFVVCYQYKEPLLECYTKLRERGGV  
INLRLSETWLRNYQVLPDRSHPKLLMSGGGGYLLSGFTVAMDNLKADTSLKSNASTLESH  
ETEEPAAKKRKCPESDS

>sp|Q15025|TNIP1\_HUMAN TNFAIP3-interacting protein 1 OS=Homo sapiens GN=TNIP1 PE=1 SV=2

MEGRGPYRIYDPGGSVPSGEASAAFERLVKENSRLKEKMGKIKMLGELLEESQMEATRLR  
QKAEELVKDNELLPPSPSLGSFDPLAELTGKDSNVTASPTAPACPSDKPAPVQKPPSSG  
TSSEFEVVTPEEQNSPESSSHANAMALGPLPREDGNLMLHLQRLETTLSVCAEEPDPHGQL  
FTHLGRMALEFNRLASKVHKNEQRTSILQTLCEQLRKENEALKAKLDKGLEQRDQAAERL  
REENLELKKLLMSGNGKEGASGRPGSPKMEGTGKKAVAGQQQASVTAGKVPEVVALGAAE  
KKVKMLEQQRSELLEVNKQWDQHFRSMKQYEQKITELRQKLADLQKQVTDLEAEREQKQ  
RDFDRKLLAKSKIEMEETDKEQLTAEAKELRQKVYQLQDQLSPLTRQREYQEKEIQRNLN  
KALEEALSITPPSSPPTAFGSPEGAGALLRKQELVTQNELLKQVKIFEEDFQRERSDR  
ERMNEEKEELKKQVEKLQAQVTLNAQLKAFKDEEKAREALRQQRKAKASGERYHVEPH  
PEHLCGAYPYAYPPMPAMVPHHGFEDWSQIRYPPPPMAMEHPPPLPNSRLFHLPEYTWRL

PCGGVRNPNQSSQVMDPPTARPTESPKNDRGPQ

>sp|P13805|TNNT1\_HUMAN Troponin T, slow skeletal muscle OS=Homo sapiens GN=TNNT1 PE=1 SV=4

MSDTEEQEYEEEPPEEEAEEEEEAPEEPEPVAEPEEERPKPSRPVVPPLIPPKIPEGGER  
VDFDDIHRKRMEKDLLELQTLIDVHFQRRKKEEELVALKERIERRRSERAEQQRFRTEK  
ERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAHFGGYLVKAEQKRGKRQTGRE  
MKVRILSERKKPLDIDYMGEQLRARS AWLPPSQPSCPA REKAQELSDWIHQLESEKFDL  
MAK LKQKQYEINVLN RISHAQKFRKGAGKGRVGGRWK

>sp|Q92956|TNFRSF14\_HUMAN Tumor necrosis factor receptor superfamily member 14 OS=Homo sapiens GN=TNFRSF14 PE=1 SV=3

MEPPGDWGWPPWRSTPKTDVLRVLVLYLTFLGAPCYAPALPSCKEDEYPVGSECCPKCSPG  
YRVKEACGELTGTVCEPCPPGTIYIAHLNGLSKCLQCQMCDPAMGLRASRNC SRTENAVCG  
CSPGHFCIVQGDHCAACRAYATSSPGQRVQKGGTESQDTLCQNCPPGTFSPNGTLEECQ  
HQT KCSWLVT KAGAGTSSSHWVWFLSGSLVIVIVCSTVGLIICVKRRKPRGDVVKVIVS  
VQRKRQEAEGEATVIEALQAPPDVTTVAVEETIPSFTGRSPNH

>sp|Q02223|TNFRSF17\_HUMAN Tumor necrosis factor receptor superfamily member 17 OS=Homo sapiens GN=TNFRSF17 PE=1 SV=2

MLQMAGQCSQNEYFDSLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCL  
GLSLIISLAVFVLMFLLRKINSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLE  
YTVEECTCEDCIKSKPKVDSDFPLPAMEEGATILVTTKNDYCKSLPAALSATEIEKS  
ISAR

>sp|Q7Z2V1|TNT\_HUMAN Protein TNT OS=Homo sapiens GN=C16orf82 PE=2 SV=1

MSLVPGQHCSPSHTRLHLTSPITMGTEPATQNTFSKGS LIYGVTS PQRGHSQHSEASQG  
PLSLDKPLQLPPIFLEGEKGESSVQNEQEGEPSLQSPSLELQSPA WPRHAGVAQEPLKVS  
SSYLSDTQSSESHVSSVQHPRPEEGSHASLSSGYAGDKEGSDISLVGSHRRVRLNRRNLNT  
QAASNQTSQLGSIDPPSS LKSRLTGPAHSTKQTGGKE

>sp|Q96HA7|TONSL\_HUMAN Tonsoku-like protein OS=Homo sapiens GN=TONSL PE=1 SV=2

MSLERELRQLSKAKAKAQRAGQRREEAALCHQLGELLAGHGRYAEALEQHWQELQLRERA  
DDPLGCAVAHRKIGERLAEMEDYPAALQHQQHYLELAHSLRNHTELQRAWATIGRTHLDI  
YDHCQSRDALLQAQAAFEKSLAIVDEELEGTLAQGELNEMRTRYLNLGLTFESLQQTAL  
CNDYFRKSI FLAEQNHL YEDLFRARYNLGTIHWRA GHSQAMRCLEGARECAHTMRKRFM  
ESECCVVI AQVLQDLGDFLA AKRALKKAYRLGSQKPVQRAAICQNLQHVLAVVRLQQQLE  
EAEGRDPQGAMVICEQLGDLFSKAGDFPRAAEAYQKQLRFAELLD RPGAERAI IHVSLAT  
TLGDMKDHHGAVRH YEEELRLRSGNVLEEAKTWNIALSREEAGDAYELLAPCFQKALSC  
AQQAQRPQLQRQVLQHLHTVQLRLQPQEAPETETRLRELSVAEDEDEEEEAEEAAATAES  
EALEAGEVELSEGEDD TDGLTPQLEEDEELQGH LGRRKGSKNRRNDMGETLLHRACIEG  
QLRRVQDLVRQGHPLNPRDYCGWTP LHEACNYGHLEIVRFLLDHGA AVDDPGGQCGEGIT  
PLHDALNCGHFEVAELLER GASVTLRTRKGLSPLETLQQWVKLYRRDL DLETRQKARAM  
EMLLQAAASGQDPHSSQAFHTPSSLLFDPETSPPLSPCPEPPSNSTRLPEASQA HVRVSP  
GQAAPAMARPRRSRHGPASSSSSSEGEDSAGPARPSQKRPRCSATAQRVAAWTPGPASNR  
EAATAST SRAAYQAAIRGVGSAQSRLGPGPPRGH SKALAPQAALIPEEECLAGDWLELDM  
PLTRSRPRPRGTGDNRRPSSTSGSDSESRPRARAKQVRLTCMQSCSAPVNAGPSSLAS  
EPPGSPSTPRVSEPSGDSSAAGQLGPAPPPPIRVRVQVQDHLFLIPVPHSSDTHSVAWL  
AEQAAQRYYQTCGLLPRLTLRKEGALLAPQDLIPDVLQSNDEVLA EVTSWDLPLPLTD RYR

RACQSLGQGEHQVLQAVELQGLGLSFSACSLALDQAQLTPLLRAKLHTALRELRLAGN  
RLGDKCVAELVAALGTMPSLALLDLSSNHLGPEGLRQLAMGLPGQATLQSLEELDLSMNP  
LGDGCGQSLASLLHACPLLSTLRLQACGFGPSFFLSHQ TALGSAFQDAEHLKTL SLSYNA  
LGAPALARTLQSLPAGTLLHLELSSVAAGKGSDLMPEVFRYLAKEGCALAHLTLSANHL  
GDKAVRDLRCCLSLCPSLISLDLSANPEISCASLEELLSTLQKRPQGLSFLGLSGCAVQG  
PLGLGLWDKIAAQLRELQLCSRRLCAEDRDALRQLQPSRPGPGECTLDHGSKLFFRRL

>sp|Q5GJ75|TP8L3\_HUMAN Tumor necrosis factor alpha-induced protein 8-like protein 3  
OS=Homo sapiens GN=TNFAIP8L3 PE=1 SV=1

MKGPRQNPSTLVSTLCEAEKPKGLWVNGYAGTQGTRDATLQTRLIPLSFHLQRGKGLAAP  
LSALSAPRLPERPADGRVAVDAQPAARSMDSDSGEQSEGEPTAAGPDVFSSKSLALQAQ  
KKILSKIASKTVANMLIDDTSSEIFDELYKVTKEHTHNKKEAHKIMKDLIKVAIKIGILY  
RNNQFSQEELVIVEKFRKKLNQTAMTIVSFYEVEYTFDRNVLSNLLHECKDLVHELVRQH  
LTPRTHGRINHVFNHFADVEFLSTLYSLDGD CRPNLKRICEGINKLLDEKVL

>sp|Q8WVT3|TPC12\_HUMAN Trafficking protein particle complex subunit 12 OS=Homo sapiens  
GN=TRAPPC12 PE=1 SV=3

MEDAGGGEETPAPEAPHPQLAPPEEQGLLFQEETIDLGGDEFGSEENETASEGSSPLAD  
KLNEHMMESVLISDSPNSEGDAGDLGRVRDEAEPGGEGDPGPEPAGTPSPSGEADGDCAP  
EDAAPSSGGAPRQDAAREVPGSEAAPEQEPPVAEPVPVCTIFSQRAPPASGDGFEPQMV  
KSPSFGGASEASARTPPQVVQPSPSLSTFFGDTAASHSLASDFFDSFTTSAFISVSNPGA  
GSPAPASPPPLAVPGTEGRPEPVAMRGPQAAAPPASPEPFAHIQAVFAGSDDPFATALSM  
SEMDRRNDAWLPGEATRGLRAVATQQRGAVFVDKENLTMPGLRFDNIQGDVAKDMLRF  
LGEKAAAKRQVLNADSVEQSFVGLKQLISCRNWRAAVDLCGRLLTAHGQGYGKSGLLTSH  
TTDSLQLWFVRLALLVKLGLFQNAEMEFEPFGNLDQPDLYEYYPHYVPGRRGSMVPFSM  
RILHAELQQYLGNPQESLDRHLHKVKTVC SKILANLEQGLAEDGGMSSVTQEGRQASIRLW  
RSRLGRVMYSMANCLLLMKDYLA VEAYHSVIKYYPEQEPQLLSGIGRISLQIGDIKTAE  
KYFQDVEKVTQKLDGLQKIMVLMNSAFLHLGQNNFAEHRFFTEILRMDPRNAVANNNA  
AVCLLYLGKLDKSLRQLEAMVQQDPRHYLHESVLFNLTMYELESSRSMQKKQALLEAVA  
GKEGDSFNTQCLKLA

>sp|O14545|TRAF1\_HUMAN TRAF-type zinc finger domain-containing protein 1 OS=Homo sapiens  
GN=TRAFD1 PE=1 SV=1

MAEFLDDQETRLCDNCKKEIPVFNFTHIHCQRNIGMCPTCKEPPKSDMETHMAAEHC  
QVTCKCNKKLEKRLKKHEETECPLRLAVCQHCDLELSILKLKEHEDYCGARTELCGNCG  
RNVLVKDLKTHPEVCGREGEEKRNEVAIPPAYDESWGQDGIWIASQLLRQIEALDPPMR  
LPRRPLRAFESDVFNHRTTNQRNITAQVSIQNNLFEEQERQERNRGQPPKEGGEESANL  
DFMLALSLQNEGQASSVAEQDFWRAVCEADQSHGGPRSLSDIKGADEIMLPCEFCEELY  
PEELLIDHQTSCNPSRALPSLNTGSSSPRGVEEPDVIFQNFLQQAASNQLDSLMGLNSH  
PVEESIIIPCEFQVLEEEVLFHHQDQCDQRPATATNHVTEGIPRLDSQPQETSPELPR  
RRVRHQDGLSSGYLDDTKQETANGPTSCLPPSRPINNMTATYNQLSRSTSGPRPGCQPSS  
PCVPKLSNSDSQDIQGRNRDSQNGAIAPGHVSVIRPPQNLYPENIVPSFSPGSPGRYGAS  
GRSEGGNRNRSRVTAAANYRSRTAKAKPSKQQGAGDAEEEEEE

>sp|Q9Y4K3|TRAF6\_HUMAN TNF receptor-associated factor 6 OS=Homo sapiens GN=TRAF6 PE=1  
SV=1

MSLLNCENSCGSSQSESDCCVAMASSCAVTKDDSVGGTASTGNLSSSFMEEIQGYDVEF  
DPPLESKYECPICLMALREAVQTPCGHRFCACIKSIRDAGHKCPVDNEILLENQLFPD



NFAKREILSLMVKCPNEGCLHKMELRHLEDHQAHCFAIMDCPQCQRPFQKFHINIHILK  
DCPRRQVSCDNCAASMAFEDKEIHDQNCPLANVICEYCNILIREQMPNHYDLDCPTAPI  
PCTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSLSVIPDSGYISEVRNFQETIH  
QLEGRLVRQDHQIRELTAKMETQSMYVSELKRTIRTLEDKVAEIEAQQCNGIYIWKIGNF  
GMHLKCQEEKPVIHSPGFYTGKPGYKLCMRLHLQLPTAQRANYISLHVHTMQGEYDS  
HLPWPFQGTIRLTILDQSEAPVRQNHHEIMDAKPELLAFQRPTIPRNPKGFGYVTFMHLE  
ALRQRTFIKDDTLLVRCEVSTRFDMGSLRREGFQPRSTDAGV

>sp|Q96PN7|TREF1\_HUMAN Transcriptional-regulating factor 1 OS=Homo sapiens GN=TRERF1 PE=1  
SV=1

MGDQQLYKTNHVAHGSENLFYQQPPLGVHSGLNHNHYGNAVTTGGMDAPQASPISPHFPQD  
TRDGLGLPVGSKNLGQMDTSRQGGWGSAGPGNHVQLRGNLANSNMMWGAPAAEPTDGY  
QYTYSQASEIRTQKLTSGVLHKLDSFTQVFANQNLRIQVNNMAQVLHTQSAVMDGAPDSA  
LRQLLSQKPMEPAPAIPSRYQQVPQQPHPGFTGGLSKPALQVGQHPTQGHLYDYQQPL  
AQVPVQGGQPLQAPQMLSQHMQMQQHQYPPQQQQQAGQQRISMQEIQTPQQIRPSQP  
QPPPQQQQPQQQLLQQRQGSMPQIPQYYQPQPMQHLQEQQQQQMHLPSPSYHRDPHQYTP  
EQAHTVQLIPLGSMSSQYYYQEPQQPYSHPLYQQSHLSQHQQREDSQLKTYSSDRQAQAML  
SSHGDLGPPDTGMGDPASSDLTRVSSTLPHRPLLSPSGIHLNMGPHQQLSPSAMWPMQ  
HLPDGRAQPGSPSSGQPKGAFGEQFQDAKNKLTCSICLKEFKNLPALNGHMRSHGGMRAS  
PNLKQEEGEKVLPPQPPLPPPPPPPPPPQLPPEAESLTPMVMPSVVPVKLLPPKPSSQ  
GFTNSTVAAPSARDKPASSMSDEMPVLEIPRKHQPSVPKAEELKTVQEKKKFRHRPEP  
LFIPPPPSYNPNPAASYSQATLYQSRLSPRVLGDHLLLDPTHELPPYTPPPMLSPVRQG  
SGLFSNVLISGHGPGAHPQLPLTPTTPRVLLCRSNSIDGSNVTVPGPGEQTVDVPEPR  
INIGLRFQAEIPELQDISALAQDTHKATLVWKPWPELENHDLQQRVENLLNLCCSSALPG  
GGTNSEFALHSLFEAKGDVMVALEMLLLRLKPVRLKCHPLANYHYAGSDKWTSLERKLFNK  
ALATYSKDFIFVQKVMVSKTVAQCVEYYYTWKKIMRLGRKHRTLAELIDDCVTSEEEEE  
LEEEEEEDPEEDRKSTKEEESVPKSPEPPVPVLAPTEGPPLQALGQPSGSFICEMPNC  
GAVFSSRQALNGHARIHGGTNQVTKARGAIPSGKQKPGGTQSGYCSVKSSPSHSTTSGET  
DPTTIFPCKECKGVFFKIKSRNAHMKTHRQEEQQRQKAQKAAFAAEMAATIERTTGPVG  
APGLPLDQLSLIKPIKDVIDDDVVQQLGGVMEEAEVVDTLDDDDQDSVLLQGDDEL

>sp|P02787|TRFE\_HUMAN Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

MRLAVGALLVCAVLGLCLAVPDKTVRWCAVSEHEATKCQSFDRHMKSVIPSDGPSVACVK  
KASYLDCIRAIANAENDAVTLDAGLVYDAYLAPNNLKPVAEFYGSKEPQTFYYAVAVV  
KKDSGFQMNQLRGKKSCHTGLGRSAGWNIPIGLLYCDLPEPRKPLEKAVANFFSGSCAPC  
ADGTDFFPQLCQLCPGCGCSTLNQYFGYSGAFKCLKDGAGDVAFAVKHSTIFENLANKARD  
QYELLCLDNTRKPVDEYKDCHLAQVPSHTTVVARSMGGKEDLIWELLNQAQEHFGKDKSKE  
FQLFSSPHGKDLLFKDSAHGFLKVPVRMDAKMYLGYEYVTAIRNLREGTCPEAPTDECKP  
VKWCALSHHERLKCDEWSVNSVGKIECVSAETTEDCIAKIMNGEADAMSLDGGFVYIAGK  
CGLVPVLAENYNKSDNCEDTPEAGYFAIAVVKKSASDLTWDNLKGKKSCHTAVGRTAGWN  
IPMGLLYNKINHCRFDEFFSEGCAPGSKKDSLCKLCMGSGNLNCEPNNKEGYGYTGAF  
RCLVEKGDVAFVKHQVTPQNTGGKNPDPWAKNLNEKDYELLCLDGRKPVVEEYANCHLAR  
APNHAVVTRKDKAEACVHKILRQQHLLFGSNVTDSCGNFCLFRSETKDLLFRDDTVCLAKL  
HNRNTYEKYLGEYVKAAGNLKRCSTSSLLEACTFRFP

>sp|P34981|TRFR\_HUMAN Thyrotropin-releasing hormone receptor OS=Homo sapiens GN=TRHR PE=1  
SV=1

MENETVSELNQTQLQPRAVVALEYQVVTILLVLIICGLGIVGNIMVVLVVMRTKHMRTPT  
NCYLVSLAVADLMVLVAAGLPNITDSIYGSWVYGYVGCLCITYLQYLGINASSCSITAFT  
IERYIAICHPIKAQFLCTFSRAKKIIIFVWAFSTSLYCMWFFLLDLNISTYKDAIVISCG  
YKISRNYYSPIYLMDFGVFYVPMILATVLYGFIARILFLNPIPSDPKENSKTWKNSTH  
QNTNLNVNTSNRCFNSTVSSRKQVTKMLAVVVILFALLWMPYRTL VVNSFLSSPFQENW  
FLLFCRICIYLN SAINPVIYNLMSQKFRAAFRKL CNCKQKPTK PANYSVALNYSVIKES  
DHFSTELDDITVTD TYLSATKVSFDDTCLASEVSFSQS

>sp|Q9C019|TRI15\_HUMAN Tripartite motif-containing protein 15 OS=Homo sapiens GN=TRIM15  
PE=1 SV=1

MPATPSLKVVHEL PACTLCAGPLEDAVTIPC GHTFCRLCLPALSQMG AQSSG KILLCPLC  
QEEEQ AETPMAPVPLGLGETYCEEHGEKIYFFCENDA EFLCVFCREGPTHQAHTVGFLD  
EAIQPYRDLRLSRLEALSTERDEIEDVKCQEDQKLQVLLTQIESKKHQVETA FERLQQEL  
EQQRCLLLARLRELEQQIWKERDEYITKVSEEVTRLGAQVKELEEK CQPASELLQDVRV  
NQSRCEMKT FVSPEAISPDLVKKIRDFHRKILTLPEMMRMFSENLAHLEIDSGVITLDP  
QTASRSLVLSERKSVRYTRQKKSLPDSPLRFDGLPAVLGFPGFSSGRHRWQVDLQLGDG  
GGCTVG VAGEGVRRKGEMGLSAEDGVWAVIISHQQCWASTSPGTDLPLSEIPRGVRVALD  
YEAGQVTLHNAQTQEPIFTFTASFSGKVFPFFAVWKKGSCLTLKG

>sp|Q8IYM9|TRI22\_HUMAN E3 ubiquitin-protein ligase TRIM22 OS=Homo sapiens GN=TRIM22 PE=1  
SV=1

MDFSVKVDIEKEVTCPICLELLTEPLSLDCGHSFCQACITAKIKESVIISRGESSCPVCQ  
TRFQPGNLRPNRHLANIVERVKEVKMSPQEGQKRDVCEHHGKKLQIFCKEDGKVICWVCE  
LSQEHQGHQTFRINEVVKECQEKLQVALQRLIKEDQEA EKLEDDIRQERTAWKNYIQIER  
QKILKGFNEMRVILDNEEQRELQKLEEGEVNVDNLAAATDQLVQQRQDASTLISDLQRR  
LRGSSVEMLQDVIDVMKRSESWTLKKPKSVSKKLKSVFRVPDLSGMLQVLKELTDVQYYW  
VDVMLNPGSATSNAISVDQRQVKTVRTCTFKNSNPCDFSAGVFGCQYFSSGKYWEVD  
VSGKIAWILGVHSKISSLNKRKSSGFAFDPSVNYSKVYSRYRPQYGYWVIGLQNTCEYNA  
FEDSSSDPKVLTLFMAVPPCRIGVFLDYEAGIVSFFNVTNHGALIYKFSGCRFSRPAYP  
YFNPWNCLVPMTVCPSS

>sp|P14373|TRI27\_HUMAN Zinc finger protein RFP OS=Homo sapiens GN=TRIM27 PE=1 SV=1

MASGSVAECLQQETTCPVCLQYFAEPMMLDCGHNICAC LARCWGTAETNVSCPQCRETF  
PQRHMRPNRHLANVTQLVKQLRTERPSGPGGEMGVCEKHREPLKLYCEEDQMPICVVCDR  
SREHRGHSVLPLEEAVEGFKEIQNQDLHLKRVDLKKRRRAQGEQARAELLSLTQMERE  
KIVWEFEQLYHSLKEHEYRLRLARLEELDLAIYNSINGAITQFSCNISHLSSLIAQLEEKQ  
QQPTRELLQDIGD TLSRAERIRIPEPWITPPDLQEKIHI FAQKCLFLTESLKQFTEKMQS  
DMEKIQELREAQLYSVDVTLDPDTAYPSLILSDNLRQVRYSYLQDLPDNPFRNLFCV  
LGSPCFIAGRHYWEVEVGDKAKWTIGVCEDSVCRKGGVTSAPQNGFWAVSLWYGKEYWAL  
TSPMTALPLRTPLQRVGIFLDYDAGEVSFYNVTERCHTFTFSHATFCGPVRPYFSLSYSG  
GKSAAPLIICPM SGIDGFSGHVGNHGHSMETSP

>sp|Q13049|TRI32\_HUMAN E3 ubiquitin-protein ligase TRIM32 OS=Homo sapiens GN=TRIM32 PE=1  
SV=2

MAAAAASHLNDALREVLECPICMESFTEEQLRPKLLHCGHTICRQCLEKLLASSINGVR  
CPFCSKITRITSLTQLTDNLTVLKIIDTAGLSEAVGLLMCRSCGRRLPRQFCRSCGLVLC  
EPCREADHQPPGHCTLPVKEAAEERRRDFGEKLTRLRELMGELQRRKAALEGVSKDLQAR  
YKAVLQEYGHERRVQDELARSRKFFTGSLAEVEKSNSQVVEEQSYLLNIAEVQAVSRCD

YFLAKIKQADVALLEETADEEEPELTASLPRELTLQDVELLKVGHVGLQIGQAVKKPRT  
VNVEDSWAMEATASAASTSVTFREMDMSPEEVVASPRASPAKQRGPEAASNIQQCLFLKK  
MGAKGSTPGMFNLVPSLYVTSQGEVLVADRGNYRIQVFTRKGFLKEIRRSPSGIDSFVLS  
FLGADLPNLTPLSVAMNCQGLIGVTDSDNSLKVYTLDGHCVACHRSQLSKPWGITALPS  
GQFVVTDVEGGKLWCFTVDRGSGVVKYSCLCSAVRPKFVTCDAEGTVYFTQGLGLNLENR  
QNEHHLEGGFSIGSVGPDGQLGRQISHFFSENEDEFRCIAGMCVDARGDLIVADSSRKEIL  
HFPKGGGYSVLIREGLTCPVGIALTPKGQLLVDCWDHCHIKIYSYHLRRYSTP

>sp|Q9BYJ4|TRI34\_HUMAN Tripartite motif-containing protein 34 OS=Homo sapiens GN=TRIM34  
PE=1 SV=2

MASKILLNVQEEVTCPICLELLTEPLSLDCGHS�CRACITVSNEAVTSMGGKSSCPVCG  
ISYSFEHLQANQHLANIVERLKEVKLSPDNGKKRDLCDHHGEKLLLFCKEDRKVICWLCE  
RSQEHRGHHTVLTEEVFKECQEKLAQVLKRLKKEEEAEKLEADIREEKTSWKYQVQTER  
QRIQTEFDQLRSILNNEEQRELQRLEEEKKTLDFKFAEAEDELVQQQLVRELISDVECR  
SQWSTMELLQDMSGIMKWEIWRLLKPKMVSKLKTTFHAPDLRMLQMFRELTAVRCYW  
VDVTLSNVNLNLVLSQDQQRQISVPIWPFQCYNYGVLGSQYFSSGKHYWEVDVSKKTA  
WILGVYCRYSRHMKYVVRRCANRQNLTKYRPLFGYWVIGLQNKCKYGVFEESLSSDPE  
VLTLSMAVPPCRGVFLDYEAGIVSFFNVTSHGSLIYKFSKCCFSQPVPYPYFNPWNCAP  
MTLCPSS

>sp|Q9NQ86|TRI36\_HUMAN E3 ubiquitin-protein ligase TRIM36 OS=Homo sapiens GN=TRIM36 PE=1  
SV=2

MSESGEMSEFGYIMELIAKGKVTIKNIERELICPACKELFTHPLILPCQHSICHKCVKEL  
LLTLDDSFNDVGSNSNQSSPRLRLPSPSMDKIDRINRPGWKRNSLTPRTTVFPCPGCEH  
DVDLGERGINGLFRNFTLETIVERYRQAARAATAIMCDLCKPPPQESTKSCMDCSASYCN  
ECFKIHHPWGTIKAQHEYVGPTTNFRPKILMCPEHETERINMYCELRRPVCHLCKLGGN  
HANHRVTMTSSAYKTLKEKLSKDIDYLIGKESQVKSQISELNLLMKETECNGERAKEEAI  
THFEKLFEVLEERKSSVLKAIDSSKKRLDKFQTMEEYQGLLENGLVGYAQEVKQETD  
QSCFVQTAKQLHLRIQKATESLKSFRPAAQTSFEDYVVNTSKQTELLGELSFFSSGIDVP  
EINEEQSKVYNNALINWHHPEKDKADSYVLEYRKINRDEMSWNEIEVCGTSKIIQDLEN  
SSTYAFRVRAYKGSICSPCSRELILHTPPAPVFSFLFDEKCGYNNEHLLNLKRDRVESR  
AGFNLLAAERIQVGYTSLDYIIGDTGITKGKHFWAFRVEPYSYLVKVGVAASSDKLQEW  
LRSPRAVSPRYEQDSGHDGSEDACFDSSQPFTLVTIGMQKFFIPKSPSSNEPENRVL  
PMPTSIGIFLDCDKGVDFYDMDQMKCLYERQVDCSHTLYPAFALMGSGGIQLEEPITAK  
YLEYQEDM

>sp|Q9HCM9|TRI39\_HUMAN E3 ubiquitin-protein ligase TRIM39 OS=Homo sapiens GN=TRIM39 PE=1  
SV=2

MAETSLLEAGASAASTAAALENLQVEASCSVCLEYLKEPVIECGHNFCACITRWWEDL  
ERDFPCPVCRKTSRYRSLRPNRQLGSMVEIAKQLQAVKRKIRDESLCPQHHEALSLFCYE  
DQEAVALICAISHTHRAHTVPLDDATQEYKEKLQKCLEPLEQKLQEITRCKSSEEKPG  
ELKRLVESRRQQILREFEELHRRLDDEEQVLLSRLEEEQDILQRLRENAHLGDKRRDL  
AHLAAEVEGKCLQSGFEMLKDVKSTLEKNIPRKFGGSLSTICPRDHKALLGLVKEINRCE  
KVKTMEVTSVSIELEKNFSNFPQYFALRKILKQLIADVTLPETAHPNLVLSERKSVK  
FVETRLRDLDPTRRFYFPCVLATEGFTSGRHYWEVEVGDKTHWAVGVCRDVSVRKGEL  
TPLPETGYWRVRLWNGDKYAATTPFTPLHIKVKPKRVGIFLDYEAGTLSFYNVTD RSHI  
YTFTDTFTEKLWPLFYPGIRAGRKNAAPLTIRPPTDWE

>sp|Q969Q1|TRI63\_HUMAN E3 ubiquitin-protein ligase TRIM63 OS=Homo sapiens GN=TRIM63 PE=1 SV=1

MDYKSSLIQDGNPMENLEKQLICPICLEMFTKPVVILPCQHNLCRKCANDIFQAANPYWT  
SRGSSVMSGGRFCPTCRHEVIMDRHGVYGLQRNLLVENIIDYKQECSSRPLQKGSHP  
MCKEHEDEKINIYCLTCEVPTCSMCKVFGIHKACEVAPLQSVFQGGKTELNNCISMLVAG  
NDRVQTIITQLEDSRRVTKENSHQVKEELSQKFDTLYAILDEKKSELLQRITQEKEKLS  
FIEALIQYQEQLDKSTKLVETAIQSLDEPGGATFLLTAKQLIKSIVEASKGCQLGKTEQ  
GFENMDFFTLDLEHIADALRAIDFGTDEEEEFIEEDQEEEESTEGKEEGHQ

>sp|Q86WT6|TRI69\_HUMAN E3 ubiquitin-protein ligase TRIM69 OS=Homo sapiens GN=TRIM69 PE=1 SV=2

MEVSTNPSSNIDPGDYVEMNDSITHLPSKVVIQDITMELHCPLCNDWFRDPLMLSCGHNF  
CEACIQDFWRQLAKETFCPECKMLCQYNNCTFNPVLDKLVEKIKKLPLLKGHPQCPEHGE  
NLKLFSPDGKLCIFQCKDARLSVGQSKEFLQISDAVHFFTEELAIQQGQLETTLKEQT  
LRNMQKEAIAAHKENKLHLQQHVSMEFLKLHQFLHSKEKDILTELREEGKALNEEMELNL  
SQLQEQLLAKDMLVSIQAKTEQQNSFDLKDITLLHSLEQGMKVLATRELISRKLNLG  
QYKGPIQYMWREMQD TLCPLSPLTDPKTAHPNLVLSKSTSVWHGDIKKIMPDDPER  
FDSSVAVLGSRGFTSGKWYWEVEVAKKTWTVGVVRESIIRKGCPLTPEQGFWLLRLRN  
QTDLKALDLPFSFLTNTNLDKVGIYLDYEGGQLSFYNAKTMTHIYTFSTFMEKLYPYF  
CPCLNDGGENKEPLHILHPQ

>sp|Q96RU8|TRIB1\_HUMAN Tribbles homolog 1 OS=Homo sapiens GN=TRIB1 PE=1 SV=2

MRVGPVRSAMSGASQPRGPALLFPATRGVPAKRLLDADDAAAVAACPRLSECSSPPDYL  
SPPGSPCSPQPPAAPGAGGGSGSAPGPSRIADYLLLPLAEREHVSRALCIHTGRELRCK  
VFPIKHYQDKIRPYIQLPSHSNITGIVEVILGETKAYVFEKDFGDMHSYVRSRKRLREE  
EAARLFKQIVSAVAHCHQSAIVLGDCLKLRKFVFSTEERTQLRLESLEDTHIMKGEDDALS  
DKHGCPAYVSPEILNTGTYSKAADVWSLGVMLYTLLVGRYPFHSDPSALFSKIRRGQ  
FCIPEHISPKARCLIRSLRREPSERLTAPEILLHPWFESVLEPGYIDSEIGTSDQIVPE  
YQEDSDISSFFC

>sp|Q9UJV3|TRIM1\_HUMAN Probable E3 ubiquitin-protein ligase MID2 OS=Homo sapiens GN=MID2 PE=1 SV=3

MGESPASVVLNASGGLFSLKMETLESELTCPICLELFEDPLLLPCAHSLCFSCAHRILVS  
SCSSGESIEPITAFQCPTCRYVISLNHRGLDGLKRNVTLQNIIDRFQKASVSGPNSPSES  
RRERTYRPTTAMSSERIAQCQCEQDPPRDAVKTCTCEVSYCDRCLRATHPNKKPFTSHR  
LVEVPDTHLRGITCLDHENEKVNMYCVSDDQLICALCKLVGRHRDHQVASLNDRFELK  
QTLEMNLTNLVKNSELENQMAKLIQICQQVEVNTAMHEAKLMEECDELVEIIQQRKQMI  
AVKIKETKVMKLRKLAQQVANCRCCLERSTVLINQAEHILKENDQARFLQSAKNIAERVA  
MATASSQVLIPDINFDAFENFALDFSREKKLLEGLDYLTAPNPPSIREELCTASHDTIT  
VHWISDDEFSISSYELQYTI FTGQANFISKSWCSWGLWPEIRKCKEAVSCSRLAGAPRGL  
YNSVDSWMIVPNIQNHYT VHGLQSGTRYIFIVKAINQAGSRNSEPTRLKTNSQPFLDP  
KMTHKKLKISNDGLQMEKDESSLKKSHTPERFSGTGCYGAAGNIFIDSGCHYWEVVMGSS  
TWYAIGIAYKSAPKNEWIGKNASSWVFSRCNSNFVVRHNNKEMLDVPPHLKRLGVLLDY  
DNNMLSFYDPANSLHLHTFDVTFILPVCPTFTIWNKSLMILSGLPAPDFIDYPERQECNC  
RPQESPVYVSGMKTCH

>sp|Q15654|TRIP6\_HUMAN Thyroid receptor-interacting protein 6 OS=Homo sapiens GN=TRIP6 PE=1 SV=3

MSGPTWLPPKQPEPARAPQGRAIPRGTPGPPPAHGAALQPHPRVNFCLPSEQCYQAPGG  
PEDRGPAWVGSHGVLQHTQGLPADRGGLRPGSLDAEIDLLSSTLAELNGGRGHASRRPDR  
QAYEPPPPPAYRTGSLKPNPASPLPASPYGGPTPASYTASTPAGPAFPVQVKAQPVRG  
CGPPRRGASQASGPLPGPHFPLPGRGEVWGPYRSQREPGPGAKEEAAGVSGPAGRGRGG  
EHGPQVPLSQPPEDELDRLTKKLVDHNMHPPSGEYFGQCGGCGEDVVDGAGVVALDRVF  
HVGCFVCSTCRAQLRGQHFYAVERRAYCEGCYVATLEKCATCSQPILDRILRAMGKAYHP  
GCFTCVVCHRGDLGIPFTVDATSIHCIEDFHRKFAPRCVCGGAIMPEPGQEETVRIVA  
LDRSFHIGCYKCEECGLLLSSEGECQGCYPLDGHILCKACSAWRIQELSATVTTDC

>sp|Q9NUP7|TRM13\_HUMAN tRNA:m(4)X modification enzyme TRM13 homolog OS=Homo sapiens  
GN=TRMT13 PE=1 SV=2

MATSATSPHAPGFPAEGRCGYVEKKRFCRMVVAAGKRFCGEHAGAAEEEDARKRILCP  
LDPKHTVYEDQLAKHLKKCNSREKPKPDFYIQDINAGLRDETEIPEQLVPISSLSEEQLE  
KLIIKLRKASEGLNSTLKDHIHSHPALHDALNDPKNGDSATKHLKQASILGNIENLKL  
GPRRCFVEFGAGKGLSHWVDIALKDAEKVHFILVEKVTRFKVDGKHKRKNVFERLQI  
DIQHLCLNKIPVLREEKLPPVVGIGKHLGCMATDLALRCLVETYAASFEERNEEPLAKRIK  
NDKTEKEIYTLAKEGNEKNVPEKWNPVAGIVIALCCHHRCDWRHYVGKEYFRALGLGAVE  
FHYFQRMSSWATCGMRKTSLETNSSTTKRQDNQNDSEHDDGGYRITDDGADCLPGLLS  
VEEKKKIGHLCKLLIDQGRIQYLQKGFSPALQYYTDPLVSLENVLLTALPNHSSSPETT  
A

>sp|Q8IZ69|TRM2A\_HUMAN tRNA (uracil-5-)-methyltransferase homolog A OS=Homo sapiens  
GN=TRMT2A PE=1 SV=2

MSENLDNEGPKPMESCGQESSALSCPTVSVPPAAPAALEEVEKEGAGAATGPGPQPLY  
SYIRDDLFTSEIFKLELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAA  
ERDKALRVLHGALWKGRPLSVRLARPKADPMARRRRQEGESEPPVTRVADVVTPLWTPY  
AEQLERKQLECEQVLQKLAKEIGSTNRALLPWLEQRHKHNKACPLEGVRPSPQQTEYR  
NKCEFLVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAFQEFIRSTP  
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHPQKLSPEELAEKTSLAQHFTAGPGRA  
SGVTCLYFVEEGQRKTPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVL  
YTVIQDWAQLDAGSMVLDVCCGTGTIGLALARKVKRVIGVELCPEAVEDARVNAQDNELS  
NVEFHCGRAEDLVPTLVSRLASQHLVAILDPPRAGLHASKVILAIRAKNLRLLYVSCNP  
RAAMGNFVDLCRAPSNRVKGIPIRPVKAVAVDLFPQTPHCEMLILFERVEHPNGTGVLGP  
HSPPAQPTPGPPDNTLQETGTFPSS

>sp|Q8IYL2|TRM44\_HUMAN Probable tRNA (uracil-0(2)-)-methyltransferase OS=Homo sapiens  
GN=TRMT44 PE=1 SV=2

MAEVGRTGISYPGALLPQGFWAAVEVWLERPQVANKRLCGARLEARWSAALPCAEARGPG  
TSAGSEQKERGPGPGQGSPGGGPGPRSLSGPEQGTACCELEEAQGCQEQEEAQREAASVP  
LRDSGHPGHAEGREGDFPAADLDSLWEDFSQSLARGNSELLAFLTSSGAGSQPEAQRELD  
VVLRTVIPKTSPhCPLTTPPREIVVQDVLNGTITFLPLEEDDEGNLKVMSNVYQIQLSH  
SKEEWFISVLIFCPRWHS DGI VYPKPTWLGEELLAKLAKWSVENKKSDFKSTLSLISIM  
KYSKAYQELKEKYKEMVKVWPEVTDPEKFBYEDVAIAAYLLILWEEERAERRLTARQSFV  
DLGCGNGLLVHILSSEGHPPGRGIDVRRRKIWDMYGPQTQLEEDAITPNDKTLFPDWDWI  
GNHSDDELTPWIPVIAARSSYNCRFFVLPCFFDFIGRYSRRQSKKTQYREYLDIFIKEVGF  
TCGFHVDEDCLRIPSTKRVCVLGKSRTYPSREASVDEKRTQYIKSRRGCPVSPPGWELS  
PSPRWAAAGSAGHCDGQQALDARVGCVTRAWAAEHGAGPQAEGPWLPGFHPREKAERVRN

CAALPRDFIDQVVLQVANLLLGGKQLNTRSSRNGSLKTWNGGESLSLAEVANELDTETLR  
RLKRECGGLQTLLRNHQVQVQVNGRVHIRDWREETLWTKQPEAKQRLLEACKTRLCW  
FFMHHPDGCALSTDCCPFAHGPAELRPPRTTPRKKIS

>sp|O15050|TRNK1\_HUMAN TPR and ankyrin repeat-containing protein 1 OS=Homo sapiens  
GN=TRANK1 PE=2 SV=4

MWDPRARVPVPRDLAVLLCNKSNAFFSLGKWNEAFVAAKECLQWDPTYVKGYRAGYSLL  
RLHQPYEAARMFFEGLRLVQRSQDQAPVADFLVGVFTTSSDSIVLQSFLPCFDHIFTTG  
FPTEVWQSVIEKLAKKGLWHSFLLLSAKKDRLPRNIHVPELSLKSLFEKYVFIGLYEKME  
QVPKLVQWLISIGASVETIGPYPLHALMRLCIQARENHLFRWMDHKPEWKGRINQKDG  
GCTVLHVVAHSPGYLVKRQTEDVQMLLRFGADPTLLDRQSRVVDVLKRKNFKAIETI  
NSHLEKLATCSKDLSGFSNGDGPTSENDIFRKVLEQLVKYMNSGNRLHKNFLKQEVVQR  
FLRLSTLQEIIPDLVCDINQDCATTVFKFLEKQRWPEVLLLLTRKVSGEPPGLDCLIK  
DCNFSDLIDICTIIPHLSTWDQRKKQLLGCLIDSGALPDGLQESQERPVTCLKHEDFELA  
FLLLTKGADPRAISLTEGDTPLHAALHIFLEIKADIGFSFLSHLLDLFWSNPTEFDYLN  
NVQDSNGNTLMHILFQKGMLKRVKLLDLLVKFDINFNLNKKEGKDARHRIKKNSLLLA  
WNKALMENRRRSRQDSAAHLGKLSKSTAPGHTSQLKSQGSFQSVPCGATARTLPEGSAP  
DSWETLPGTQVTRKEPGALRPCSLRDCLMQDITVLIQQVEVDPSFPEDCLQSSEPLEAGA  
GKEGKKDDKPTLGAGAPDCSEVGEGHAQVGLGALQLVPDDNRGKEGNDQDDWSTQEIEA  
CLQDFDNMTWEIECTSEMLKKLSSKVMTKV IKKKI ILAIQQLGNGEWTQGLQKRLKHLKG  
SIQLFEAKLDKGARMLWELAI D FSPRCSENPEKIIATEQNTCAMEKSGRIYTEIIRIWDI  
VL DHCKLADSIKAI CNAYNRGLSCVL RKKLKGINKGQVSANMKIQKRIPRCYVEDTEAEK  
GREHVNPEYFPPASAVETEYNIMKFHSFSTNMAFNILNDTTATVEYPPFRVGELEYAVIDL  
NPRPLEPIILIGRSGTGKTTCCLYRLWKKFHVYWEAEQAGSPLAKQVWLKRRLEVEPG  
KESPGEEEEEEEEDEEEDSIEVETVESIDEQEYEACAGGAGVEPAGDGQAAEVCAPHEP  
HQLEHLHQIFVTKNHVLCEVQRNFIELSKSTKATSHYKPLDPNIHKLQDLRDENFPLFV  
TSKQLLLLLDASLPKPFRLNEDGSLKRTIIIGWSAQEESTIPSWQEDEEEAEVDGDYSEE  
DKAVEMRTGSDPRVYVTFEVFKNEIWPKMTKGRTAYNPALIWKEIKSFLKGSFEALSCP  
HGRLTEEVYKKLGRKRCPNFKEDRSEIYSLFSLYQQIRSQKGYFDEEDVLYNISRRLSKL  
RVLPWSIHELYGDEIQDFTQAEALALLMKCINDPNSMFLTGDTAQSIMKGVAFRFSDLRSL  
FHYASRNTIDKQCAVRKPKKIHQLYQNYRSHSGILNLASGVVDLLQFYFPESFDRLP  
GLFDGPKPTVLESCSVSDLAAILLRGNKRKTQPIEFGAHQVILVANETAKEKIPEELGLAL  
VLTIIYEAKGLEFDDVLLYNFFTDSEAYKEWKIISSFTPTSTDSREENRPLVEVPLDKPGS  
SQGRSLMVNPEMYKLLNGELKQLYTAITRARVNLWIFDENREKRAPAFKYFIRRDFVQVV  
KTDENKDFDDSMFVKTSTPAEWIAQGDYYAKHCWKVAAKCYQKGGAFEKEKLALAHDTA  
LSMKSKKVSPKEKQLEYLELAKTYLECKEPTLSLKCLSYAKEFQLSAQLCERLGKIRDAA  
YFYKRSQCYKDAFRCFEQIQEFDLALKMYCQEELFEEAAIAVEKYEEMLKTKTLPISKLS  
YSASQFYLEAAAKYLSANKMKEMMAVLSKLDIEDQLVFLKSRKRLAEADLLNREGREE  
AALLMKQHGCLEAARLTADKDFQASCLLGAARLNVARSDIEHTKDILREALDICYQTG  
QLSGIAEAHFLQGVILRDFQKL RDAFFKFDTLNHSAGVVEALYEAASQCEAEPEKILGLA  
PGGLEILLSLVRALKRVTNNAEKEMVKSCFEFFGISQVDAKYCQIAQNDPGPILRIIFDL  
DLNLRKKTKDHFLIMTDQVKLALNKHLLGRLCQITRSLLGKTYRGVCMRFIVGLKCEDE  
NCEHFHRLRRCEAKCLVQSKMNLVAINGLLLEAKKVFPKILAEELKEIDYILSTDMYGL  
CKSILDVLPKPHFHQVRLSENPMACKEILKPNYKSFRFYRFALKEYIHFLFENESARNRR  
ESTDLWLSAMQAFLLSSNYPEEFKLLHQEEDNYNRELKALESEKDERGRGRGSRIKIE

GKFGMLAPNRDDENMDKTHLCFIRLLENCIDQFYVYRNPEDYKRLFFRFMNVLIKRCKEP  
LIPSIGNTVALLEFQFIHCGVVLARLWKNVILCLPKSYIALHLYWEFLFSKKDKELGDVF  
SIIQEYKPKDVTRAIQDFRHLSYLAQVLCGYENVNFVLLDAFSEIDYVVSGEAERTLV  
LCLVMLVNAEEILQPYCKPLLYRHFREIESRLQLMSMDCPGQVPERLLKVVKRVLVAVNV  
KSVAEALQDLLFERDEEYLMDCDWRWDPVHTKGSIVRGLYEEVRLNRLCLDPVDYFAE  
PECEFGQDEMDLALEDRLDHLATILSQKQRKASIQKRLRACLVVSLCISWRRRVGTQM  
ERVREEAREPRAGNFKADVDRTQCDLCGVKFTRGPENYFSPSKAFEGAASEVAVLSRAE  
LEREECQERNSESYEQHIHLEHHQRQQVAYQKYSEFFHEKVDPAIDEGKLVVQDIEQSVW  
IHSHVGSKEHSHMLQKVQEHIKRVSDMVEDLYRRKAWAGAEAMTRLVNIIILSVRDARD  
WLMKTETRLKKEGIVQEDDYENEVEDFGELRPRRRSRKCGKQRKY

>sp|Q96Q11|TRNT1\_HUMAN CCA tRNA nucleotidyltransferase 1, mitochondrial OS=Homo sapiens  
GN=TRNT1 PE=1 SV=2

MLRCLYHWHRPVLNRRWSRLCLPKQYLFTMKLQSPEFQSLFTEGLKSLTELFVKENHEL  
IAGGAVRDLLNGVKPQDIDFATTATPTQMKEMFQSAGIRMINNRGEKHGTITARLHEENF  
EITTLRIDVTTDGRHAEVEFTTDWQKDAERRDLTINSMFLGFDGTLFDYFNGYEDLNKK  
VRFVGHAKQRIQEDYLRLRYFRFYGRIVDKPGDHPETLEAIAENAKGLAGISGERIWW  
ELKKILVGNHVNHLIHLIYDLVAPYIGLPANASLEEDKVSKNVDGFSPPKPVTLASLF  
KVQDDVTKLRLKIAKEEKNLGLFIVKNRKDLIKATDSSDPLKPYQDFIIDSREPDATT  
RVCELLKYQGEHCLLKEMQQWSIPFPVSGHDIRKVGISSGKEIGALLQQLREQWKKSGY  
QMEKDELLSYIKKT

>sp|094759|TRPM2\_HUMAN Transient receptor potential cation channel subfamily M member 2  
OS=Homo sapiens GN=TRPM2 PE=1 SV=2

MEPSALRKAGSEQEEGFELPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNDKQESLS  
SWIPENIKKKECVYFVSSKLS DAGKVVCCGYTHEQHLEATKPHTFQGTQWDPKKHVQ  
EMPTDAFGDIVFTGLSQVKVYVRVSQDTPSSVIYHMTQHWGLDVPNLLISVTGGAKNF  
NMKPRLSIFRRGLVKVAQTTGAWIITGGSHTGVMKQVGEAVRDFSLSSSYKEGELITIG  
VATWGTVHRREGLIHPTGSFPAEYILDEDGQGNLTCLDSNHSF ILVDDGTHGQYGEIP  
LRTRLEKFISEQTKERGGVAIKIPIVCVVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA  
DVIAQVANLPVSDITISLIQKLSVFFQEMFETFTESRIVEWTKKIQDIVRRRQLLTVFR  
EGKDGQQDQDVAILQALLKASRSQDHFHGHENWDHQLKLAVAWNRVDIARSEIFMDEWQWK  
PSDLHPTMTAALISNKEPFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSLKQKVL  
VEDPERPACAPAPRLQMHHVAQVLRLLGDFTPQPLYP RP RHNDRLLLPVPHVKLVNQQ  
GVSLRSLYKRSSGHVFTMDPIRDLLIWAIVQNRRELAGI IWAQSQDCIAAALACSKILK  
ELSKEEEDTDSSEMLALAEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL  
ALEAKDMKFVSHGGIQAFLTKVWWGQLSVDNGLWRVTLCLAFPLLLTGLISFREKRLQD  
VGTPAARARAFFTAPVVVFHLNILSYFAFLCLFAYVLMVDFQPVPSWCECAIYWLFLSLV  
CEEMRQLFYDPDECGLMKKAALYFSDFWNKLDVGAILLFVAGLTCRLIPATLYPGRVILS  
LDFILFCLRLMHIFTISKTLGPKIIIVKRMMDVFFFLFLLAVWVVSFGVAKQAILIHNE  
RRVDWLFRGAVYHSYLTIFGQIPGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF  
PEWLTVLLCLYLLFTNILLNLLIAMFNFTFQQVQEHTDQIWKFRHDLIEEYHGRPAA  
PPPFILLSHLQLFIKRVVLKTPAKRHKQLKNKLEKNEEAALLSWEIYLKENYLQNRQFQQ  
KQRPEQKIEDISNKVDAMVDLLDLPLKRSQSMEQRLASLEEQAQTAQALHWIVRTLRA  
SGFSSEADVPTLASQKAAEEDPAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE  
KVPWETEFLIYDPPFYTAERKDAAAMDPMGDTLEPLSTIQYNVVDGLRDRRSFHGPYTVQ

AGLPLNPMGRTGLRGRGSLSCFGPNHTLYPMVTRWRRNEDGAICRKSICKMLEVELVVKLP  
LSEHWALPGGSREPGEMPLRKLRILRQEHWPSFENLLKCGMEVYKGYMDDPRNTDNAWI  
ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVVDRIPLYANHKTLLQAAAEFG  
AHY

>sp|Q9UHF7|TRPS1\_HUMAN Zinc finger transcription factor Trps1 OS=Homo sapiens GN=TRPS1  
PE=1 SV=2

MVRKKNPPLRNVASEGEGQILEPIGTESKVSIGNKEFSADQMSENTDQSDAAELNHKEEH  
SLHVQDPSSSSKKDLKSAVLSEKAGFNYESPSKGGNFSPHDEVTDNRNMLAFSSPAAGG  
VCEPLKSPQRAEADDPQDMACTPSGDSLETKEQKMSPKATEETGQAQSGQANCQGLSPV  
SVASKNPQVPSDGGVRLNKSKTDLVNDNPDAPLSPELQDFKCNICGYGYGNDPTDLI  
KHFRKYHLGLHNRTRQDAELDSKILALHNMVQFSHSHKDFQVNRSVFSGVLQDINSSRPV  
LLNGTYDVQVTSGGTFIGIGRKTPTDCQGNTRYFRCKFCNFTYMGNSSTELEQHFLQTHPN  
KIKASLPSSEVAKPSEKNSNKSIPALQSSDSGDLGKWQDKITVKAGDDTPVGYSVPIKPL  
DSSRQNGTEATSYWCKFCFSCESSSLKLEHYGKQHGAVQSGGLNPELNDKLSRGSV  
INQNDLAKSSEGETMTKTDKSSSGAKKKDFSSKGAEDNMVTSYNCQCFDFRYSKSHGPDV  
IVVGPLLRYHQQHLNIHKCTIKHCPFCPRGLCSPEKHLGEITYPFACRKSNCSHCALLLL  
HLSPGAAGSSRVKHQCHQCSFTTPDQVLLFHYESVHESQASDVKEANHLQGSQGQSV  
KESKEHSCTKCDFITQVEEEISRHYRRAHSCYKCRQCSFTAADTQSLLEHFNTVHCQEED  
ITTANGEEDGHAISTIKKEEPKIDFRVYNLLTPDSKMGEVSESVVKREKLEEKDGLKEKV  
WTESSDDLNRNVTWRGADILRGSPSYTQASLGLLTPVSGTQEQTTLRDSNPVEAAHLAR  
PIYGLAVETKGLQGAPAGGEKSGALPQQYPASGENKSKDESQSLLRRRRSGSVFCANCL  
TTKTSLWRKNANGGYVCNACGLYQKLHSTPRPLNIKQNNGEQIIRRRTRKRLNPEALQA  
EQLNKQQRGSNEEQVNGSPLRRSEDHLETSHQREIPLPSLSKYEAQGS�TKSHSAQQPV  
LVSQTLDIHKRMQPLHIQIKSPQESTGDPGNSSSVSEKGSSEKSGSPIEKYMRPAKHPNY  
SPPGSPIEKYQYPLFGLPFVHNDQSEADWLRFWKYKLSVPGNPHYLSHVPGLPNPCQN  
YVPYPTFNLPPHFAVGSNDNDIPLDLAIKHSRPGPTANGASKEKTKAPPNVKNEGPLNVV  
KTEKVDRSTQDELSTKCVHCGIVFLDEVMYALHMSCHGDSGPFQCSICQHLCTDKYDFTT  
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>sp|Q8NER1|TRPV1\_HUMAN Transient receptor potential cation channel subfamily V member 1  
OS=Homo sapiens GN=TRPV1 PE=1 SV=2

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VDCPHEEGELDSCPTITVSPVITIQRPGDGTGARLLSQDSVAASTEKTLLRYDRRSIFE  
AVAQNNCQDLESLLLFLQSKKHLTDNEFKDPETGKTCLLKAMNLHDGQNTTIPLLEI  
ARQTDLSKELVNASYTDSYKQGTALHIAIERRNMAVTLLEVNGADVQAAAHGDFFKKT  
KGRPGFYFGELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNTVLHALVEVADNTA  
DNTKFVTSMYNEILMLGAKLHPTLKLEELTNKKGMTPLALAAGTGKIGVLAYILQREIQE  
PECRHLSRKFTWAYGPVHSSLYDLSCIDTCEKNSVLEVIAYSSSETPNRHDMLLVEPLN  
RLLQDKWDRFVKRIFYFNFLVYCLYMIIFTMAAYYRPVDGLPPFKMEKTGDYFRVTGEIL  
SVLGGVYFFFRGIQYFLQRRPSMKTLFVDSYSEMLFFLQSLFMLATVVLYFSLKEYVAS  
MVFSLALGWTNMLYYTRGFQMGIIYAVMIEKMILRDLCRFMFVYIVFLFGFSTAVVTLIE  
DGKNDSLPSESTSHRWGPACRPDPSSYNSLYSTCLELKFFTIGMGDLEFTENYDFKAVF  
IILLAYVILTYILLNMLIALMGETVNKIAQESKNIWKLQRAITILDTEKSFLKCMRKA  
FRSGKLLQVGYTPDGKDDYRWCFRVDEVNWTWNTNVGIINEDPGNCEGVKRTLSFSLRS  
SRVSGRHWKNFALVPLLREASARDRQSAQPEEVYLRQFSGSLKPDAEVFKSPAASGEK



>sp|Q9NQA5|TRPV5\_HUMAN Transient receptor potential cation channel subfamily V member 5 OS=Homo sapiens GN=TRPV5 PE=1 SV=2

MGGFLPKAEGPGSQLQKLLPSFLVREQDWDQHLDKLHMLQQKRILESPLLASKENDLSV  
LRQLLLDCTCDVRQRGALGETALHIAALYDNLEAALVLMEEAPELVFEPTTCEAFAGQTA  
LHIAVNVQNVNLVRALLTRRASVSARATGTAFRRSPRNLIYFGEHPLSFAACVNSEEIVR  
LLIEHGADIRAQDSLGNITVLHILILQPNKTFACQMYNLLLSYDGHGDHLQPLDLVPNHQG  
LTPFKLAGVEGNTVMFQHLMQRRHIQWTYGPLTSILYDLTEIDSWGEELSFELELVSSD  
KREARQILEQTPVKELVSFKWNKYGRPYFCILAALYLLMICFTTCCVYRPLKFRGGNRT  
HSRDITILQQKLLQEAYETREDIIRLVGELVSIVGAVIILLLEIPDIFRVGASRYFGKTI  
LGGPFHVIIITYASLVLTVMVRLTNTNGEVPMSFALVLGWCSVMYFTRGFQMLGPFTI  
MIQKMIFGDLMRFCWLMMAVILGFASAFYIIFQTEDPTSLGQFYDYPMALFTTFELFLTV  
IDAPANYDVDLPFMFSIVNFAFAIIATLLMLNLFIAMMGDTHWRVAQERDELWRAQVAT  
TVMLERKLPRCLWPRSGICGCEFLGDRWFLRVENHNDQNPLRVLYVEVFKNSDKEDDQ  
EHPSEKQPSGAESGTLARASLALPTSSLSRTASQSSSHRGWEILRQNTLGHNLGLNLSE  
GDGEEVYHF

>sp|Q6UWJ1|TMC03\_HUMAN Transmembrane and coiled-coil domain-containing protein 3 OS=Homo sapiens GN=TMC03 PE=1 SV=1

MKVLGRSFFWVLPVLPWAVQAVEHEEVAQRVIKLHRGRGVAAMQSRQWVRDSCRKLSGL  
LRQKNAVLNKLKTAIGAVEKDVGLSDEEKLQVHTFEIFQKELNESENSVFQAVYGLQRA  
LQGDYKDVVNMKESSRQRLAALREAAIKEETEMELLAAEKHVEALKNMQHQNSLSML  
DEILEDVRKAADRLEEEIEEHAFDDNKSVMGVNFEAVLRVEEEEANSKQNTKREVEDDL  
GLSMLIDSQNNQYILTKPRDSTIPRADHHFIKDIVTIGMLSLPCGWLCTAIGLPTMFGYI  
ICGVLLGPSGLNSIKSIVQVETLGEFGVFFTLFLVGLFESPEKLRKVKWISLQGPCYMTL  
LMIAFGLLWGHLRLIKPTQSVFISTCLSLSTPLVSRFLMGSARGDKEGDIDYSTVLLGM  
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LIGPYRKLHMEKGNKEILILGISAFIFMLTVTELLDVSMELGCFLAGALVSSQGPVV  
TEEIATSIEPIRDFLAIVFFASIGLHVFPFVAYELTVLVFLTVSVVVMKFLAALVLSL  
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RAAITRCVPRPERRSSL

>sp|Q9BVK6|TMED9\_HUMAN Transmembrane emp24 domain-containing protein 9 OS=Homo sapiens GN=TMED9 PE=1 SV=2

MAVELGVLLVRPRPGTGLGRVMRTLLLVWLATRGSAFYHIGETEKKCFIEEIPDETMV  
IGNYRTQLYDKQREEYQPATPGLGMFVEVKDPEDKVILARQYGSEGRFTFTSHTPGHQI  
CLHSNSTKFSLFAGGMLRVHLDIQVGEHANDYAEIAAKDKLSELQLRVRQLVEQVEQIQK  
EQNYQRWREERFRQTSESTNQRVLWWSILQTLILVAIGVWQMRHLKSFFEAKKL

>sp|Q8TAF8|TMHS\_HUMAN Tetraspan membrane protein of hair cell stereocilia OS=Homo sapiens GN=LHFPL5 PE=1 SV=1

MVKLLPAQEAAKIYHTNYVRNSRAVGVMWGTLTICFSVLVMAIFIQPYWIGDSVNTPQAG  
YFGLFSYCVGNLSSELICKGGPLDFSSIPSRAFKTAMFFVALGMFLIIGSIICFSLFFI  
CNTATVYKICAWMLAAATGLMIGCLVYPDGWDSSEVRRMCGEQTGKTYLGHCTIRWAFM  
LAISIGDALILSFLAFVLGYRQDKLLPDDYKADGTEE

>sp|Q2T9K0|TM44\_HUMAN Transmembrane protein 44 OS=Homo sapiens GN=TMEM44 PE=1 SV=3

MGEAPSPAPALWDWDYLDRCFARHVCISFGLWICASSCWIAAHALLLYLRCAQKPRQDQ  
SALCAACCLLTSLCDTVGALLARQLTIQVFTGAYLAAIDLNVNMFILFPVCGSKFKSNSD

REARERKRRRQLRASVFALALPLSLGPCWALWVAVPKASATIRGPQRRLLASLLQENTEI  
LGYLLGSVAAFGSWASRIPPLSRIAPPPTLGITTQHEIWRGQMSKPSQSPSRSPSGHWRA  
AAQRQVLGTEMCGRKTFPSIHLWTRLLSALAGLLYASAIVAHDQHPEYLLRATPWFLTSL  
GRAALDLAIIFLSCVMKSKMRQALGFAKEARESPDTQALLTCAEKEEENQENLDWVPLTT  
LSHCKSLRTMTAISRYMELTIEPVQQAGCSATRLPGDGQTSAGDASLQDPPSYPPVQVIR  
ARVSSGSSSEVSSINSDLEWDPEDVNLEGSKENVELLGSQVHQDSVRTAHLSDDD

>sp|Q8NDY8|TMM52\_HUMAN Transmembrane protein 52 OS=Homo sapiens GN=TMEM52 PE=2 SV=1  
MARGPLAARGRLRLPLPLPLPLPQVALGFADGSCDPSDQCPPQARWSSLWHVGLIL  
LAVLLLLLCGVTAGCVRFCCLRKQAQAQPHLPPARQPCDVAVIPMDSDSPVHSTVTSYSS  
VQYPLGMRLPLPFGELDLSMAPPAYSPLYTPEPPPSYDEAVKMAKPREEGPALSQKPSPL  
LGASGLETTVPVQESGPNTQLPPCSPGAP

>sp|Q8NOU2|TMM61\_HUMAN Transmembrane protein 61 OS=Homo sapiens GN=TMEM61 PE=2 SV=1  
MALPQMCDGSHLASTLYRCMTVSGTVVLVAGTLCFAWWSEGDATAQPGQLAPPTTEYPVPE  
GPSPLLRVSFVCCGAGLLLLIGLLWSVKASIPGPPRPDPYHLSRDLYLTVESSEKES  
CRTPKVVDIPTYEAEVSPVAEGPPTPPAYPTEEALEPSGSRDALLSTQPAWPPPSYESI  
SLALDAVSAETTPSATRSCSLVQTARGG

>sp|Q6PI78|TMM65\_HUMAN Transmembrane protein 65 OS=Homo sapiens GN=TMEM65 PE=1 SV=2  
MSRLLPLLRSTARSRLRPGPAAAAAPRPPSWCCGRGLLALAPPGLPGGPRRLGTHPKK  
EPMEALNTAQGARDFIYSLHSTERSCLLKELHRFESIAIAQEKLEAPPPTPGQLRYVFIH  
NAIPFIGFGFLDNAMEIMIVAGTHIEMSIGIILGISTMAAALGNLVSIDLGLAGYVEAL  
ASRLGLSIPDLTPKQVDMWQTRLSTHLGKAVGVTIGCILGMFPLIFFGGGEDEKLETKS

>sp|P28289|TMOD1\_HUMAN Tropomodulin-1 OS=Homo sapiens GN=TMOD1 PE=1 SV=1  
MSYRRELEKYRDLDEDEILGALTEELRTLENELDELDPDNALLPAGLRQKDQTTKAPTG  
PFKREELLDHLEKQAKEFKDREDLVPTTGEKRGKVWVPKQKPLDPVLESVTLEPELEEAL  
ANASDAELCDIAAILGMHTLMSNQYYQALSSSIMNKEGLNSVIKPTQYKVPVDEEPNS  
TDVEETLERIKNNPKLEEVLNNIRNIPIPTLKAYAEALKENSIVKKFSIVGTRSNPDV  
AYALAEMLKENKVLKTLNVESNFISGAGILRLVEALPYNTSLVEMKIDNQSQPLGNKVEM  
EIVSMLEKNATLLKFGYHFTQQGPRLRASNAMNNNDLVRKRLADLTGPIIPKCRSGV

>sp|O95150|TNF15\_HUMAN Tumor necrosis factor ligand superfamily member 15 OS=Homo sapiens  
GN=TNFSF15 PE=1 SV=2  
MAEDLGLSFGETASVEMLPEHGSCRPKARSSSARWALTCCLVLLPFLAGLTTYLLVSQLR  
AQGEACVQFQALKGQEFAPSHQQVYAPLRADGDKPRAHLTVVRQTPTQHFKNQFPALHWE  
HELGLAFTKNRMNYTNKFLIPESGDYFIYSQVTFRGMTSECSEIRQAGRPNKPDSTV  
ITKVTDSYPEPTQLLMGTSVCEVGSNWFQPIYLGAMFSLQEGDKLMVNVSDISLVDTK  
EDKTFFGAFL

>sp|O95407|TNF6B\_HUMAN Tumor necrosis factor receptor superfamily member 6B OS=Homo  
sapiens GN=TNFRSF6B PE=1 SV=1  
MRALEGPLSLLCLVLALPALLPVPVAVRGVAETPTYPWRDAETGERLVCAQCPPGTFVQR  
PCRRDSPTTCGPCPPRHYTQFWNLYLERCRCNVLCGEREEARACHATHNRACRCRTGFF  
AHAGFCLEHASCPPGAGVIAPGTPSQNTQCQPCPPGTFSSSSSSEQCQPHRNCTALGLA  
LNVPGSSSHDTLCTSCTGFPLSTRVPGAEECERAVIDFVAFQDISIKRLQRLQALEAPE  
GWGPTPRAGRAALQLKLRRLTELLGAQDGALLVRLQLARVARMPGLERSVRERFLPVH

>sp|P41273|TNFL9\_HUMAN Tumor necrosis factor ligand superfamily member 9 OS=Homo sapiens  
GN=TNFSF9 PE=1 SV=1

MEYASDASLDPEAPWPPAPRARACRVLPWALVAGLLLLLLAAACAVFLACPWAVSGARA  
SPGSAASPRLREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSL  
TGGLSYKEDTKELVVAKAGVYVFFQLELRRVAGEGSGSVSLALHLQPLRSAAGAAALA  
LTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRV  
TPEIPAGLPSPRSE

>sp|Q14106|TOB2\_HUMAN Protein Tob2 OS=Homo sapiens GN=TOB2 PE=1 SV=2

MQLEIKVALNFIISYLYNKLPRRRADLFGEELERLLKKKYEGHWYPEKPLKSGFRCVHI  
GEMVDPVVELAAKRSLAVEDVRANVPEELSVWIDPFEVSYQIGEKGAVKVLVYDDSEGC  
GAPELDKEIKSSFNPDAQVFVPIGSQDSSLNSPSPSFGQSPSTFIPRSAQPIITFTAS  
FAATKFGSTKMKKGGGAASGGGVASSGAGGQPPQPPRMARSPTNSLLKHKSLSLSMHSL  
NFITANPAPQSQLSPNAKEFVYNGGGSPSLFFDAADGQSGTGPFGGSGAGTCNSSFSD  
MAQVFGGGANSLFLEKTPFVEGLSYNLNTMQYPSQQFQPVLAN

>sp|Q8N4H5|TOM5\_HUMAN Mitochondrial import receptor subunit TOM5 homolog OS=Homo sapiens  
GN=TOMM5 PE=1 SV=1

MFRIEGLAPKLDPEEMKRKMREDVISSIRNFLIYVALLRVTPFILKKLDSI

>sp|O14763|TR10B\_HUMAN Tumor necrosis factor receptor superfamily member 10B OS=Homo  
sapiens GN=TNFRSF10B PE=1 SV=2

MEQRGQNAPAASGARKRHGPGPREARGARPGPRVPKTLVLVVAAVLLLVSAESALITQQD  
LAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDCISCKYGGDYSTHWNLLFCLRCTRCD  
SGEVELSPCTTTRNTVCQCEEGTFREEDSPEMCRKCRTGCPRGMVKVGDCTPWSDIECVH  
KESGTKHSGEVPAAVEETVTSSPGTPASPCSLSGIIIGVTAAVVLIVAVFVCKSLWKKV  
LPYLKGICSGGGDPERVDRSSQRPGAEDNVLNEIVSILQPTQVPEQEMEVEPAEPTGV  
NMLSPGESEHLLPEAAEERSQRRRLVPANEGDPTETLRQCFDDFADLVPFDSWEPLMRK  
LGLMDNEIKVAKAEAAGHRDTLYTMLIKWVNKTGRDASVHTLLDALETGERLAKQKIED  
HLLSSGKFMYLEGNADSAMS

>sp|Q96RJ3|TR13C\_HUMAN Tumor necrosis factor receptor superfamily member 13C OS=Homo  
sapiens GN=TNFRSF13C PE=1 SV=1

MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRKPAGASSPAPRTALQPQ  
ESVGAGAGEAALPLPGLLFGAPALLGLALVLVLVGLVSWRRRQRRRLRGASSAEAPDGD  
KDAPEPLDKVIIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAG  
PEQQ

>sp|A6NLI5|TR64C\_HUMAN Putative tripartite motif-containing protein 64C OS=Homo sapiens  
GN=TRIM64C PE=5 SV=3

MSDSTLRVFQNELICCVNYFIDPVTTDCVHSFCRPCLCLCSEEGRAPMRCPLCRKISE  
KPNFNTNVALKKLASLARQTRPQINSSDNICVLHEETKELFCEADKRLLCGPCSESPEH  
MAHSHSPIGWAAEECREKLKEMDYLWKINQETQNNLNQETSKFCSLVEDKRNRIVYRYQ  
KMHIFLDEEEQRHLQALEREAKELFQQQLQDSQVRMTQHLEGMKDMYRELWETYHMPDVEL  
LQDVGNISASRTDLAQMPKPQPVNPELTSWCITGVLDMLNNFRVDNALSTEMTPCYISLS  
EDVRRVIFGDDHRSAPMDPQGVESFAVWCAQFTSGKHYEVDVTHSSNWILGVCDSRT  
ADTNIVIDSDKTFFSISSKTSNHYSLSSTNSPPLIQYVQRPLGWVGVLFDYDNGSVSFFDV  
SKGSLIYGFPSSFSPLRPFFCFGCT

>sp|P62995|TRA2B\_HUMAN Transformer-2 protein homolog beta OS=Homo sapiens GN=TRA2B PE=1  
SV=1

MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRSKEDSRRSRSKSRSRSESRSRS

RRSSRRHYTRSRSRSHRRSRSSYSRDYRRRHSHSHSPMSTRRRHVGNRANPDPNCCL  
GVFGLSLYTTERDLREVFSKYGP IADVSIVYDQQSRRSRGFVYFENVDDAKEAKERAN  
GMELDGRIRVDFSITKRPHPTPGIYMGRPTYGSSRRRDYDRGYDRGYDDRDYYSRSY  
RGGGGGGGWRAAQDRDQIYRRRSPSPYYSRGGYRSRSRSSYSPRRY

>sp|Q9UPN9|TRI33\_HUMAN E3 ubiquitin-protein ligase TRIM33 OS=Homo sapiens GN=TRIM33 PE=1  
SV=3

MAENKGGGEAESGGGSGSAPVTAGAAPAAQEAEPPLTAVLVEEEEEEGRAGAEGGAA  
GPDDGGVAAASSGSAQAASSPAASVGTGVAGGAVSTPAPAPASAPAPGPSAGPPPGPPAS  
LLDTCVACQQSLQSRREAEPKLLPCLHSFCLRCLPEPERQLSVPIPGGSNGDIQQVGVIR  
CPVCRQEQRQIDLDNYFVKDTSEAPSSSDEKSEQVCTSCEDNASAVGFCVECGEWLCKT  
CIEAHQRVKFTKDHILRKKEDEVSESVGASGQRPVFCPVHKQEQQLKFCETCDRLTCRDCQ  
LLEHKEHRYQFLEEFQNNQKGA IENLLAKLLEKKNYVHFAATQVQNR I KEVN ETNK RVEQ  
EIKVAIFTLININKKGKSLQQLENVTKERQMKLLQQQNDITGLSRQVKHVMNFTNWA I  
ASGSSTALLYSKRLITFQLRHILKARCDPVPAAANGAIRFHCDPTFWAKNVVNLGNLVIES  
KPAPGYTPNVVVGQVPPGTNHISKTPGQINLAQLRLQHMQQQVYAQKHQQLQQMRMQQP  
APVPTTTTTTQQHPRQAAPQMLQQQPPRLISVQTMQRGNMNCGAFQAHQMRLAQNAARIP  
GIPRHSGPQYSMMQPHLQRQHSNPGHAGPFPVSVHNTTINPTSPTTATMANANRGPTSP  
SVTAIELIPSVTNPENLPSLPDIPPIQLEDAGSSSLDNLLSRYISGSHLPPQPTSTMNPS  
PGPSALSPGSSGLSNSHTPVRPPSTSTGSRGSCGSSGRTAEKTSLSFKSDQVKVKQEPG  
TEDEICSFSGGVKQEKTEDGRRSACMLSSPESSLTPPLSTNLHLESELDALASLENHVKI  
EPADMNESCKQSGLSSLVNGKSPIRSLMHSARIGGDGNNKDDDPNEDWCAVCQNGGDL  
CCEKCPKVFHLTCHVPTLLSFPSGDWICTFCRDIGKPEVEYDCDNLQHSKKGKTAQGLSP  
VDQRKCERLLLYCHELSIEFQEPVPASIPNYKI IKKPMDLSTVKKKLQKKHSQHYQI  
PDDFVADVRLIFKN CERFNEMMKVVQVYADTQEINLKADSEVAQAGKAVALYFEDKLTEI  
YSDRTFAPLPEFEQEEDDGEVTEDESDEDFIQPRRKRLKSDERPVHIK

>sp|O00635|TRI38\_HUMAN E3 ubiquitin-protein ligase TRIM38 OS=Homo sapiens GN=TRIM38 PE=1  
SV=1

MASTTSTKKMMEEATCSICLSLMTNPVSINCGHSYCHLCITDFFKNPSQKQLRQETFCCP  
QCRAPFHMDSLRPNKQLGSLIEALKETDQEMSCEEHGEQFHLFCEDGQLICWRCERAPQ  
HKGHTTALVEDVCQGYKEKLQKAVTKLKQLEDRCTEQKLSTAMRITKWKEKVQIQRQKIR  
SDFKNLQCFLHEEEKSYLWRLEKEEQQTLSRLRDYEAGLGLKSNELKSHILELEEKQCGS  
AQKLLQNVNDTLSRSWAVKLETSEAVSLELHTMCNVSKLYFDVKKMLRSHQVSVTLDPDT  
AHHELILSEDRRQVTRGYTQENQDTSSRRFTAFPCVLGCEGFTSGRRYFEVDVGEGTGWD  
LGVCMENVQRGTGMKQEPQSGFWTLRLCKKKGYVALTSPPTSLHLHEQPLLVGIFLDYEA  
GVVSFYNGNTGCHIFTFPKASFSDTLRPYFQVYQYSPLFLPPPGD

>sp|Q6ZMU5|TRI72\_HUMAN Tripartite motif-containing protein 72 OS=Homo sapiens GN=TRIM72  
PE=1 SV=2

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGEPAADGTVLCPCQCQAPT  
RPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRALVCGVCASLGSHRGHRL  
PAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVEVEETVRQFRGAVGEQLGKMR  
VFLAALEGS LDREA ERVGEAGVALRRELGSLNSYLEQLRQMEKVLEEVADKPQTEFLMK  
YCLVTSRLQKILAESP PARLDIQLPIISDDFKFQVWRKMFRALMPALEELTFDPSSAHP  
SLVSSSGRRVECSEQKAPPAGEDPRQFDKAVAVVAHQQLSEGEHYWEVDVGDKPRWALG  
VIAAEAPRRGRLHAVPSQGLWLLGLREGKILEAHVEAKEPRALRSPERRPTRIGLYLSFG

DGVLSFYDASDADALVPLFAFHERLPRPVYPFFDVCWHDKGKNAQPLLLVGPEGAEA

>sp|Q86YW5|TRML1\_HUMAN Trem-like transcript 1 protein OS=Homo sapiens GN=TREML1 PE=1 SV=2

MGLTLLLLLLGLGEGQIVGSLPEVLQAPVGSSILVQCHYRLQDVKAQKVWCRFLPEGCQ  
PLVSSAVDRRAPAGRRTFLTDLGGLLQVEMVTLQEEDAGEYGCMDGARGPQILHRVSL  
NILPEEEEETHKIGSLAENAFSDPAGSANPLEPSQDEKSIPLIWGAVLLVGLLVAAVVL  
FAVMAKRKQGNRLGVCGRFLSSRVSGMNPSSVVHVSDSGPAAELPLDVPHIRLDSPPSF  
DNTTYSLSPLDSPSGKPSLPAPSSLPPLPPKVLVCSKPVTYATVIFPGGNKGGGTSCGPA  
QNPPNNQTPSS

>sp|Q6UXN2|TRML4\_HUMAN Trem-like transcript 4 protein OS=Homo sapiens GN=TREML4 PE=2 SV=1

MAWGGVHTCCFHLCCCCSWPQGAVPEELHKHPGQTLQLQCQYSPKRGYPQPKSWCQQTSP  
SRCTLLVTSSKPWTAVQKSHYTIWDKPNAGFFNITMIQLTQNDSGFYWCGIYNASENIIT  
VLNRISLVVSPAPTTSPMWTLPLWLTSTVLITSPEGTSGHPSINGSETRKSRAPACLGSG  
GPRFLVLVLCGLLLAKGLML

>sp|Q8WWH5|TRUB1\_HUMAN Probable tRNA pseudouridine synthase 1 OS=Homo sapiens GN=TRUB1  
PE=1 SV=1

MAASEAAVVSSPSLKTDTSPVLETAGTVAAMAATPSARAAAAVVAAAARTGSEARVSKAA  
LATKLLSLSGVFAVHKPKGPTSSELLNRLKEKLLAEAGMPSPewTKRKKQTLKIGHGGTL  
DSAARGVLVVGIGSGTKMLTSMLSGSKRYTAIGELGKATDLDSTGRVTEEKPYDKITQE  
DIEGILQKFTGNIMQVPPLYSALKKDGQRLSTLMKRGEVVEAKPARPVTVYSISLQKFQP  
PFFTLDVECGGGFYIRSLVSDIGELSSCANVLELTRTKQGPFTLEEHALPEDKWTIDDI  
AQSLHCSSLFPAELALKKSKPESNEQVLSCEYITLNEPKREDDVIKTC

>sp|Q99816|TS101\_HUMAN Tumor susceptibility gene 101 protein OS=Homo sapiens GN=TSG101  
PE=1 SV=2

MAVSESQKKMVSKEYKYRDLTVRETVNVITLYKDLKPVLD SYVFNDGSSRELMNLTGTIP  
VPYRGNTYNIPICLWLLDTYPYNPPICFVKPTSSMTIKTGKHDANGKIYLPYLHEWKHP  
QSDLLGLIQVMIVFVGDEPPVFSRPISASYPPYQATGPPNTSYMPGMPGGISPYPSGYPP  
NPSGYPGCPYPPGGYPATTSSQYPSQPPVTTVGPSRDGTISED TIRASLISAVSDKLRW  
RMKEEMDRAQAEALNALKRTEEDLKKGHQKLEEMVTRLDQEA EVDKNIELKKKDEELSS  
ALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDFVL  
KHVRLLSRKQFQLRALMQKARKTAGLS DLY

>sp|Q9Y5S1|TRPV2\_HUMAN Transient receptor potential cation channel subfamily V member 2  
OS=Homo sapiens GN=TRPV2 PE=1 SV=1

MTSPSSSPVFRLETLDGGQEDGSEADRGKLDGSGSLPPMESQFQGEDRKFAPIRVNLNY  
RKGTGASQPDNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL  
MKAVLNLDGVDNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRSLQCVK  
LLVENGANVHARACGRFFQKGQGTCTFYFGELPLSLAACTKQWDVVSYLENPHQPASLQA  
TDSQGNTVLHALVMSDNAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL  
AAKEGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVLEIIAF  
HCKSPHRHRMVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFIFTAVAYHQPTLKKQAA  
PHLKAIEVGNMMLTGHILILLGGIYLLVGQLWYFWRRHVFIWISFIDSYFEILFLFQALL  
TVVSQVLCFLAIEWYLP LLVSALVLGWLNLYYTRGFQHTGIYSVMIQKVILRDLLRFL  
IYLVFLFGFAVALVSLSQEAWRPEAPTGP NATESVQPMEGQEDEGNGAQYRGILEASLEL  
FKFTIGMELAFQEQLHFRGMVLLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW  
KLQKAISVLEMENGYWWCRKKQRAGVMLTVGTPDGSPDERWC FRVEEVNWASWEQTLPT

LCEDPSGAGVPTLENPVLASPPKEDEDGASEENYVPVQLLSN

>sp|Q86VQ6|TRXR3\_HUMAN Thioredoxin reductase 3 OS=Homo sapiens GN=TXNRD3 PE=1 SV=4

MERSPPQSPGPGKAGDAPNRRSGHVGRARVLSPPGRRARLSSPGPSRSSEAREELRRHLV  
GLIERSRVVIFSKSYCPHSTRVKELFSSLGVECNVLELDQVDDGARVQEVLSEITNQKTV  
PNIFVNKVHVGGCDQTFQAYQSGLLQKLLQEDLAYDYDLIIIGGGSGGLSCAKEAAILGK  
KVMVLDFVVPSPQGTSWGLGGTCVNVGCIPKKLMHQAALLGQALCDSRKFGWEYNQQVRH  
NWETMTKAIQNHISLNLWGYRLSLREKAVAYVNSYGEFVEHHKIKATNKKGQETYYTAAQ  
FVIATGERPRYLGIQGDKEYCITSDDLFSLPYCPGKTLVVGASYVALECAGFLAGFGLDV  
TVMVRSILLRGFDQEMAQVGSYMEQHGKFLRKFIIPVMVQQLKESGPKLKVLAKESTEG  
TETIEGVYNTVLLAIGRDSCTRKIGLEKIGVKINEKSGKIPVNDVEQTNVPYVYAVGDIL  
EDKPELTPVAIQSGKLLAQRLFGASLEKCDYINVPTTVFTPLEYGCCGLSEEKAIEVYKK  
ENLEIYHTLFWPLEWTVAGRENNTCYAKIIICNKFHDHVRIGFHILGPNAGEVTQGFAAAM  
KCGLTQQLDDTIGIHPTCGEVFTTLEITKSSGLDITQKGCUG

>sp|P59090|TSAS2\_HUMAN Putative uncharacterized protein TSPEAR-AS2 OS=Homo sapiens  
GN=TSPEAR-AS2 PE=5 SV=1

MGNPRLPRLLCALKFSGFLSNIRGPLAGEDGMGDTQLARVRDSALKTPWRPAPCPPPAHS  
LDDWK

>sp|Q63HK5|TSH3\_HUMAN Teashirt homolog 3 OS=Homo sapiens GN=TSHZ3 PE=1 SV=2

MPRRQQAARRAAAYVSEELKAAALVDEGLDPEEHTADGEPSAKYMCPEKELARACPSYQ  
NSPAAEFSCHEMDSESHISETSDRMADFESGSIKNEETKEVTVPLEDTTVSDSLEQMK  
VYNNFLSNSYWSNLNLNHQPSSEKNNGSSSSSSSSSSCGSGSFDWHQSAMAKTLQQVS  
QSRMLPEPSLFSTVQLYRQSSKLYGSIFTGASKFRCKDCSAAAYDTLVELTVHMETGHYR  
DDNHETDNNNPKRWSKPRKRSLEMEGKEDAQKVLKCMYCGHSFESLQDLSVHMIKTKHY  
QKVPLKEPVTPTITLLEDEKQSVPLAATTFTSPSNTPASISPKLNVEVKKEVDKEKAV  
TDEKPKQKDKPGEETCDISSKYHYLTENDLEESPKGGDLILKSLENTVTSAINKAQNG  
TPSWGYPYIHAAYQLPMMKLSLGSSTPLKPMFGNSEIVSPTKNQTLVSPSSQTS  
PMPKTNFHAMEELVKVTEKVAKEEKMKEPDGKLSPPKRATSPCSSEVGEPIKMEASS  
DGGFRSQENSPSPRDGCKDGSPLAEPVENGKELVKPLASSLSGSTAIITDHPPEQPFVN  
PLSALQSVMNHLGKAAKPSLPALDPMSMLFKMSNSLAEEAAVATPPPLQSKKADHLDY  
FYHVNNDQPIDLTKGSDKGCGLSVLLSPTSTAPATSSSTVTTAKTSAVVSFMSNSPLR  
ENALSDISDMLKNLTESHTSKSSTPSSISEKSDIDGATLEAEESTPAQKRKGRQSNWNP  
QHLLILQAQFAASLRQTSEGKYIMSDLSQERMHISRFTGLSMTTISHWLANVKYQLRRT  
GGTKFLKNLDTGHPVFFCNDCASQIRTPSTYISHLESHLGFRLRDLSTEQINSQIAQ  
TKSPSEKMTSSPEEDLGTSYQCKLCNRTFASKHAVKLHLSKTHGKSPEDHLLYVSELEK  
Q

>sp|O60636|TSN2\_HUMAN Tetraspanin-2 OS=Homo sapiens GN=TSPAN2 PE=1 SV=2

MGRFRGGLRCIKYLLGFNLLFWLAGSAVIAFGLWFRFGGAIKELSSDKSPEYFYVGLY  
VLVGAGALMMAVGFFGCCGAMRESQCVLGSFFTCLLVIFAAEVTTGVFAFIGKVVAIRHV  
QTMYYEAYNDYLKDRGKNGTLITFHSTFQCCGKESSEQVQPTCPKELLGHKNCIDEIET  
IISVKLQLIGIVGIGIAGLTIFGMIFSMVLCCAIRNSRDVI

>sp|O43657|TSN6\_HUMAN Tetraspanin-6 OS=Homo sapiens GN=TSPAN6 PE=1 SV=1

MASPSRRLQTKPVITCFKSVLLIYTFIFWITGVILLAVGIWGVSLNYSLLNEKATNV

PFVLIATGTVIIILLGTGFCFATCRASAWMLKLYAMFLTLVFLVELVAAIVGFVFRHEIKN  
SFKNNYEKALKQYNSTGDIRSHAVDKIQNTLHCCGVTDYRDWTDNYYSEKGFPSCKCL  
EDCTPQRDADKVNNEGCFIKVMTIIESEMGVVAGISFGVACFQLIGIFLAYCLSRAITNN  
QYEIV

>sp|Q96NA8|TSNA1\_HUMAN t-SNARE domain-containing protein 1 OS=Homo sapiens GN=TSNARE1  
PE=1 SV=2

MSYGSIAIRGGGLSGRPFGGPSRQGCQPLECARCWTEYGIHFPCPSPEKLNRCVGKD  
GEGDLGPAGTPIVPRARKRGPVAPESRMPEPTSSPTIGPRKDSAAGPHGRMAGPSTTR  
AKKRKPNFCPQETEVLSKVSKEHQLLFGTGLLKAEPTRRYRVWSRILQAVNALGYCRRD  
VVDLKHKWRDLRAVVRRLGDLRKAHGPSGSGKPQALALTPVEQVVAKTFSCQALPSE  
GFSLEPPRATQVDPNQLQELFQEMSANVFRINSSVTSLESLQSLGTPSDTQELRDSLHT  
AQQETNKTIASASSVKQMAELLRSSCPQERLQQERPQLDRLKTQLSDAIQCYGVVQKKI  
AEKSRALLPMAQRGSKQSPQAPFAELADDEKVFNGSDNMWQGEQEQALLPDITEEDLEAIR  
LREEAILQMESNLLDVNQIKDLASMVSEQGEAVDSIEASLEAASSHAEARQLLAGASR  
HQLQRHKIKCCFLSAGVTALLVIIIIATSVRK

>sp|Q15631|TSN\_HUMAN Translin OS=Homo sapiens GN=TSN PE=1 SV=1

MSVSEIFVELQGFLAAEQDIREIRKVVQSLEQTAREILTLLQGQVHGAGFQDIPKCLK  
AREHFQTVKTHLTSKTKFPAEQYRFHEHWRFLVQLVFLAAFVVYLETETLVTREAVT  
EILGIEPDREKGFHLDVEDYLSGVLILASELSRLSVNSVTAGDYSRPLHISTFINELDSG  
FRLLNLKNDSLRKRYDGLKYDVKKVEEVYDLSIRGFNKETAACVEK

>sp|P07996|TSP1\_HUMAN Thrombospondin-1 OS=Homo sapiens GN=THBS1 PE=1 SV=2

MGLAWGLGVLFLMHVCGTNRIPESSGGDNSVDFIFELTGAARKGSGRRLVKGPDPSSPAFR  
IEDANLIPPVPDDKFQDLVDAVRAEKGFLLASLRQMKKTRGTLLALERKDHSGQVFSVV  
SNGKAGTLDLSLTVQKQHVVSVEEALLATGQWKSITLQVQEDRAQLYIDCEKMENAELE  
VPIQSVFTRDLASIALRLIAKGGVNDNFQGVQLNVRVVFVGTTPEDILRNKGCSSTSVLL  
TLDNNVNGSSPAIRTNYIGHKTKDLQAICGISCELSMVLELRGLRTIVTTLQDSIRK  
VTEENKELANELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSVTICKKVSCPIMPSCN  
ATVPDGECCPRCWPSSDADDGWSWSEWTSCTSCGNGIQQRGRSCSLNNRCEGSSVQT  
RTCHIQECDKRFKQDGGWSHSPWSSCSVTGCGVITRIRLCNSPSPQMNGKPCEGEARE  
TKACKKDACPINGGWGPSPWDICSVTCGGGVQKRSRLCNPPTPQFGGKDCVGDVTENQI  
CNKQDCPIDGCLSNPCFAGVKCTSYPDGSKGACPPGYSNGIQCTDVDECKEVPDAF  
NHNGEHRCENTDPGYNLPCPPRTGSQPFQGVGHATANKQVCKPRNPCTDGTDCNKN  
AKCNYLGHYSDPMYRCECKPGYAGNGICGEDTDLGWPENLVCVANATYHCKKDNCPN  
LPNSGGQEDYDKDGDGACDDDDNDKIPDDRDNCPFHYNPAQYDYDRDDVGDRCNCPYN  
HNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDTMDGVGDQCDNCPLEH  
NPDQLDSDSDRIGDTCNNDIDEDGHQNNLDNCPYVPNANQADHDKDGKGDACDHDDDN  
DGIPDDKDNCLVPNPDQKDSGDGRGDACKDDFDHDSVPDIDDICPENVDISETDFRRF  
QMIPLDPKGTQNDPNWVRHQKELVQTVNCDPGLAVGYDEFNAVDFSGTFFINTERDD  
DYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYGLSVKVVNSTTGPGEHLRNAL  
WHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVVMYEGKKIMADSGPIYD  
KTYAGGRLGLFVFSQEMVFFSDLKYECRDP

>sp|POCV99|TSPY4\_HUMAN Testis-specific Y-encoded protein 4 OS=Homo sapiens GN=TSPY4 PE=3  
SV=1

MRPEGSLTYRVERLRQGFQGVGAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALG

EEAVLLDDIMAEVEVVAEEVEGLVERREEAQAQQAVPGPGMTPESALEELLA  
VQVELEPVNAQARKAFSRQREKMERRRKPHLDRRGAVIQSVPGFWANVIANHPQMSALIT  
DEDEDMLSYMVSLEVEEEKHPVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTP  
IEWYPDYEVEAYRRRHNSLFFNWFSDFNFAGSNKIAEILCKDLWRNPLQYYKRMKPP  
EEGTETSGDSQLLS

>sp|POCW00|TSPY8\_HUMAN Testis-specific Y-encoded protein 8 OS=Homo sapiens GN=TSPY8 PE=3  
SV=2

MRPEGSLTYWVPERLRQGFCGVGRAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALG  
EEAVLLDDIMAEVEVVAEEVEGLVERREEAQAQQAVPGPGMTPESALEELLAVQVELE  
PVNAQARKAFSRQREKMERRRKPHLDRRGAVIQSVPGFWANVIANHPQMSALITDEDEDM  
LSYMVSLEVEEEKHPVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTPIEWYLD  
YEVEAYRRRHNSLFFNWFSDFNFAGSNKIAEILCKDLWRNPLQYYKRMKPPEEGTET  
SGDSQLLS

>sp|Q9Y5U2|TSSC4\_HUMAN Protein TSSC4 OS=Homo sapiens GN=TSSC4 PE=1 SV=3

MAEAGTGEPSPSVEGEHGTEYDTLPSDTVSLSDSDSLPGGAEEALSPMGLPGEEDS  
GPDEPPSPPSGLLPATVPFHLRGMSSTFSQRSRDIFDCLEGAARRAPSSVAHTSMSDNG  
GFKRPLAPSGRSPVEGLGRAHRSPASPRVPPVPDYVAHPRWTKYSLEDVTEVSEQSNQA  
TALAFLGSQSLAAPTDCVSSFNQDPSSCGEGRVIFTKPVRGVEARHERKRVLGKVGEPGR  
GGLGNPATDRGEGPVELAHLAGPGSPEAEWGSHHGGLQEVEALSGSVHSGSVPLPPVE  
TVGFHGSRRKRSRDHFRNKSSSPEDPGAEV

>sp|Q96PN8|TSSK3\_HUMAN Testis-specific serine/threonine-protein kinase 3 OS=Homo sapiens  
GN=TSSK3 PE=1 SV=1

MEDFLLSNGYQLGKTIGEGTYSKVKEAFSKKHQRKVAIKVIDKMGGPEEFIQRFLPRELQ  
IVRTL DHKNI IQVYEMLESADGKICLVMELAEGGDVFD CVLNGGPLPESRAKALFRQMVE  
AIRYCHGCGVAHRDLKCENALLQG FNKL TDFGFAKVL PKSHRELSQTF CGSTAYAAPEV  
LQGI PHDSKKGDVWSMGVVLVYMLCASLPFDDTDIPKMLWQQQKGVSFPTHLSISADCQD  
LLKRLLPEPDMILRPSIEEVSWHPWLAST

>sp|Q5T7W7|TSTD2\_HUMAN Thiosulfate sulfurtransferase/rhodanese-like domain-containing  
protein 2 OS=Homo sapiens GN=TSTD2 PE=1 SV=1

MPSSTSPDQGDDLENCILRFSDLDLKDMSLINPSSSLKAELDGSTKKKYSFAKKKAFALF  
VKTKEVPTKRSFECKEKLWKCCRQLFTDQTSIHRHVATQHADEIYHQTASILKQLAVTLS  
TSKSLSSADEKNPLKECLPHSHDVSAWLPDISCFNPDELISGQGSEEGEVLLYYCYHDLE  
DPQWICAWQTALCQHLHLTGKIRIAAEGINGTVGGSKLATRLYVEVMLSFP LFKDDLCKD  
DFKTSKGAHCFPEL RVGVFEEI VPMGISPKKISYKKPGIHLSPGEFHKEVEKFLSQANQ  
EQSDTILLDCRN FYESKIGRFQGCLAPDIRKFSYFPSYVDKNLELFREKRVLMYCTGGIR  
CERGSAYLKAKGVCKEVFQLKGGIHKYLEEFPDGFYKGKLFVFDERYALSYNSDVVSECS  
YCGARWDQYKLCSTPQCRQLVLTCPACQGGGFTACCVTCQDKGSRKVS GPMQDSFKEECE  
CTARRPRIPRELLQHVRQPVSPPEPGDADEDGPVLM

>sp|Q9H2G4|TSLY2\_HUMAN Testis-specific Y-encoded-like protein 2 OS=Homo sapiens GN=TSPYL2  
PE=1 SV=1

MDRPDEGPPAKTRRLSSSESPQRDP PPPPPPPPLRLPLPPPQQRPLQEETEAQVLAD  
MRGVGLG PALPPPPYVILEEGGIRAYFTLGAECPGWDSTIESGYGEAPPPTESLEALPT  
PEASGGSLEIDFQVVQSSSFGGEGALETCSAVGWAPQRLVDPKSKEEAI IVEDEDEDER  
ESMRSSRRRRRRRRRKQRKVKRESRERNAERMESILQALEDIQLDLEAVNIKAGKAFLRL



KRKFIQMRPFLERRDLIIQHIPGFVWKAFLNHPRISILINRRDEDIFRYLTNLQVQDLR  
HISMGYKMKLYFQTNPYFTNMVIVKEFQRNRSGRLVSHSTPIRWHRGQEPQARRHGNQDA  
SHSFFSWFSNHSLEADRIAETIKNDLWVNPLRYLLRERGSRIKRKKQEMKKRKRGRCE  
VVIMEDAPDYAVEDIFSEISDIDETIHDIKISDFMETTDYFETTDNEITDINENICDSE  
NPDHNEVPNNETDNNESADDHETDNNESADDNNENPEDNNKNTDDNEENPNNNENTYG  
NNFFKGGFWGSHGNNQDSSSDNEADEASDDEDNDGNEGDNEGSDDDGNEGDNEGSDDDD  
RDIEYYEKVIEDFDKDQADYEDVIEIISDESVEEEGIEEGIQQDEDIYEEGNYEEEGSED  
VWEEGEDSDSDLEDVLQVPNGWANPGKRGKTG

>sp|Q6PF05|TT23L\_HUMAN Tetratricopeptide repeat protein 23-like OS=Homo sapiens GN=TTC23L  
PE=1 SV=2

MQASPIRIPTVSNDIDWDFCFHMSQQTEIPAHHQQTDELYPTGGCGESEETKAKEKEKAI  
DCMSHPKEKLAQSQQKVAQLIKEKMNTQANKELIRCVILSRIIFGDHHWKCARALANLAY  
GYLTLRGLPVQAKKHATSAKNTLLTWKANTTSNKEKEEILEALVKLYYTLGVAVLLQNRG  
REAYFNLQKAERNMKELKELYGGVCELQVSENDLTLALGRASLAIHRLNLALAYFEKAI  
GDVIAAKGDRSDLISLYEEAAQIEQLRRNHNAIQYLQQAHSVCVSLFTEVSPKTAEMS  
ALLAKAYAMSGEAQHRDAVEIYFIRSINAYRATLGSEDFETLSTTEEFCKWLQNGEKQD  
K

>sp|Q86WT1|TT30A\_HUMAN Tetratricopeptide repeat protein 30A OS=Homo sapiens GN=TTC30A  
PE=2 SV=3

MAGLSGAQIPDGEFTALVYRLIRDARYAEAVQLLGRELQRSRPRAGLSLLGYCYRLQE  
FALAAECYEQGLQHPELEQYRLYQAQALYKACLYPEATRVAFLLDNPAYHSRVLRLQA  
AIKYSEGDLPGSRSLVEQLLSGEGGEESGGDNETDGQVNLGCLLYKEGQYEAACSKFSAT  
LQASGYQPDLSYNLALAYYSSRQYASALKHIAEIIERGIRQHPELGVGMTTEGFDVRSVG  
NTLVLHQ TALVEAFNLKAAIEYQLRNYEVAQETLTDMPRAEEELDPVTLHNQALMNMDA  
RPTEGFEKLQFLLQNPFPFETFGNLLLLYCKYEFDLAADVLAENAHLYTKFLTPYLYD  
FLDALITCQTAPEEAFIKLDGLAGMLTEQLRRLTKQVQEARHNRDDEAIKKAVNEYDETM  
EKYIPVLMAQAKIYWNLENYPMVEKVFRRKSVEFCNDHDVWKLNVAVHVLFMQENKYKEAIG  
FYEPIVKKHYDNILNVAIVLANLCVSYIMTSQNEEAELMRKIEKEEEQLSYDDPNRKM  
YHLCIVNLVIGTLYCAKGNIEFGISRVIKSLEPYNNKKLGTDTWYAKRCFLSLENMSKH  
MIVIHDSVIQECVQFLGHCELYGTNIPAVIEQPLEEERMHVGNKNTVTDESRQLKALIYEI  
IGWNK

>sp|Q5TCY1|TTBK1\_HUMAN Tau-tubulin kinase 1 OS=Homo sapiens GN=TTBK1 PE=1 SV=2

MQCLAAALKDETMSGGGEQADILPANYVVKDRWKVLKKIGGGGFGEIYEAMDLLTREN  
ALKVESAQQPKQVLKMEVAVLKKLQGKDHVCRFIGCGRNEKFNYVVMQLQGRNLADLRRS  
QPRGTFTLSTTLRLGKQILESIEATHSVGFLHRDIKPSNFAMGRLPSTYRKYMLDFGLA  
RQYTNTTGDRPPRNAGFRGTVRYASVNAHKNREMGRHDDLWSLFYMLVEFAVGQLPWR  
KIKDKEQVGMIEKEYEHRMLLKHPSEFHLFLDHIAASLDYFTKPDYQLIMSVFENSMKER  
GIAENEAFDWEKAGTDALLSTSTSTPPQQNTRQTAAMFGVVNVTVPVGDLLRENTEDVLQ  
GEHLSAQENAPPILPGRPSEGLGPSPLVPHPGGPEAEVWEETDVNRNKLRLINIGKSPCV  
EEEQSRGMGVPSSPVRAPPDSTTPVRSRLYRRVNSPESERLSTADGRVELPERRSRMDL  
PGSPSRQACSSQPAQMLSVDTGHADRQASGRMDVSASVEQEALSNAFRSVPLAEEEDFDS  
KEWVIIDKETELKDFPPGAEPSTSGTTDEEPEELRPLPEEGEERRRLGAEPVTRPRGRSM  
QALAEEDLQHLPPQLPPLQSLQGDGRSETSQQPTPGSPSHSPLHSGPRPRRRRESPTGPQ  
RQVFSVAPPFEVNGLPRAVPLSLPYQDFKRDLSYRERARLLNRVRRVGFSHMLLTTPQV

PLAPVQPQANGKEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEAAAAVALGE  
VLGPRSGSSSEGSESTDRSQEGAPSTLLADDQKESRGRASMADGDLEPEGSKTLVLVS  
PGDMKKSPVTAELAPDPLGLTAAALTPQHERPQPTGSQLDVSEPGTLSSVLKSEPKPPGP  
GAGLGAGTVTTGVGGVAVTSSPFTKVERTFVHIAEKTHLNMSSGGQALRSEEFSAAGGEL  
GLELASDGGAVEEGARAPLENGLALSGLNGAEIEGSALSGAPRETPSEMATNSLPNGPAL  
ADGPAPVSPLEPSPEKVATISPRRHAMPGSRPRSRIPVLLSEEDTGSEPSGSLSAKERWS  
KRARPQQDLARLVMEKRQGRLLRLASGASSSSSEEQRRASETLSTGTGSEEDTPASEPAA  
ALPRKSGRAAATRSRIPRPIGLRMPMPVAAQQPASRSHGAAPALDTAITSRLQLQTPPGS  
ATAADLRPKQPPGRGLGPRAQAGARPPAPRSPRLPASTSAARNASASPRSQSLSRRESP  
SPSHQARPGVPPPRGVPPARAQPDGTPSPGSGKKGPRGKLQAQRATTKGRAGGAEGRAGA  
R

>sp|Q5TAA0|TTC22\_HUMAN Tetratricopeptide repeat protein 22 OS=Homo sapiens GN=TTC22 PE=2  
SV=1

MAELEAVADDLDALIDDLDYLPGHFHEMQLNFEPSPAPQRARDLKLQREGLRQELQLA  
AAPQRPVVRHLLGAFAYLEELDEARECFLEVAHEHPGNLNAWANLAHVYGRLGQEEEEEE  
ACAARLADLMGLAEEPEAAGDPQLRAARCLAEQGYAHGFDVGCASPEERARGLAAGIALY  
DKALGYGQQIPMEEKRQWYFTMATLYIRLDGIFLELGSEEQKRLPAFNRTLALLRQVLKS  
EDPRHRALAWCYLGMILLERKDTFTTPMGVHDCGYSGTDPLDCFGKAIEIAKNQPPILNR  
LAKIFYFLGKQDMAIGTCNMALDVLDPENLWQAYCTRAKIHIRAYLHDLKRAKMGLGGM  
PDRNHLACAKADLEEVRVCPGFKAYLDIGQVYYVMGVDVAVQELLAVDEAALNQALVFLA  
KAGESELGATLPELQLLRGKCLRIKEDANAAACFKRAVELDDAGSSHTDGFGLLEALL  
AQWSQAQLSDGELGREVDLWLRRAQDKYPAARLRQELQRVWRGHTDEVGLARALVAQGR  
PALVRLLFETMEREGEGASAPDRRAVSF

>sp|Q8N5M4|TTC9C\_HUMAN Tetratricopeptide repeat protein 9C OS=Homo sapiens GN=TTC9C PE=1  
SV=1

MEKRLQEAQLYKEEGNQRYREGKYRDAVSRYHRALLQLRGLDPSLPSPLPNLGPQGPALT  
PEQENILHTTQTDCCYNLAACLLQMEPVNYERVREYSQKVLERQPDNAKALYRAGVAFFH  
LQDYDQARHYLLAAVNRQPKDANVRRYLQLTQSELSSYHRKEKQLYLGFMFG

>sp|P42681|TXK\_HUMAN Tyrosine-protein kinase TXK OS=Homo sapiens GN=TXK PE=1 SV=3

MILSSYNTIQSVFCCCCCSVQKRQMRTQISLSTDEELPEKYTQRRRPWLSQLSNKKQSN  
TGRVQPSKRKPLPLPPSEVAEEKIQVKALYDFLPREPCNLALRRAEYILEKYNPHWW  
KARDRLGNEGLIPSNVYTKITNLEIYEWYHRNITRNQAEHLLRQESKEGAFIVRDSRH  
LGSYTISVFMGARRSTEAAIKHYQIKKNDGGQWYVAERHAFQSIPELIWYHQHNAAGLMT  
RLRYPVGLMGSLPATAGFSYKEWIDPSELAFIKEIGSGQFGVVHLGEWRSHIQVAIKA  
INEGSMSEEDFIEEAKVMMKLSHSLVQLYGVCIQRKPLYIVTEFMENGCLLNLYLRENKG  
KLRKEMLLSVCQDICEGMEYLERNGYIHRDLAARNCLVSSTCIVKISDFGMTRYVLDDEY  
VSSFGAKFPIKWSPEVFLFNKYSSKSDVWSFGVLMWEVFTGKMPFENKSNLQVVEAIS  
EGFRLYRPHLAPMSIYEVMYSCWHEKPEGRPTFAELLRAVTEIAETW

>sp|P40222|TXLNA\_HUMAN Alpha-taxilin OS=Homo sapiens GN=TXLNA PE=1 SV=3

MKNQDKKNGAAKQSNPKSSPGQPEAGPEGAQERPSQAAPAVEAEGPGSSQAPRKPEGAQA  
RTAQSGALRDVSEELSRQLEDILSTYCVDDNNQGGPGEDGAQGEPAEPEDAESRTYVARN  
GEPEPTPVVNGEKEPSKGDPNTEETIRQSDEVGDRDHRHPQEKKKAKGLGKEITLLMQTLN  
TLSTPEEKLAALCKKYAELLEHRNSQKQMKLLQKKQSQLVQEKDHLRGEHSAVLARSK  
LESCLRELQRHNRSLKEEGVQARAREEEEEKRKEVTSHFQVTLNDIQLQMEQHNERNSKLRQ

ENMELAERLKKLIEQYELREEHIDKVFHKDLQQQLVDAKLQQAQEMLKEAEERHQREKD  
FLLKEAVESQRMCELMKQQETHLKQQLALYTEKFEEFQNTLSKSSEVFTTFKQEMEKMTK  
KIKKLEKETTMYSRWRWESSNKALLEMAEEKTVRDKEGLEQLVKIQRLEKLCRALQTERND  
LNKRVQDLSAGGQGSALTDSGPERRPEGPGAQAPSSPRVTEAPCYPGAPSTEASGQTGPQE  
PTSARA

>sp|Q86VQ3|TXND2\_HUMAN Thioredoxin domain-containing protein 2 OS=Homo sapiens GN=TXNDC2  
PE=2 SV=4

MDVDKELGMESVKAGASGKPEMRLGTQEETSEGDANESSLLVLSSNVPLLALEFLEIAQA  
KEKAFLPMVSHTFHMRTESDASQEGDDLKSSANTSHPKQDDSPKSSEETIQPKEGDIP  
KAPEETIQSKKEDLPKSSEKAIQPKESNIPKSSAKPIQPKLGNIKASVKPSQPKEGDIP  
KAPEETIQSKKEDLPKSSEKAIQPKEGDIPKSSAKPIQPKLGNIKASVKPSQPKEGDIP  
KSPEETIQPKEGDIPKSSAKPIQPKLGNIKASVKPSQPKEGDIPKSPKEEAIQPKEGDIP  
KSLEEAIQPKEGDIPKSPKEEAIQPKEGDIPKSLKEEAIQPKEGDIPKSPKEETIQPKKGDIP  
KSPKEEAIQPKEGDIPKSPKQAIQPKEGDIPKSLKEEAIQPKKEIDIPKSPKEETIQPKEDDSP  
KSLEEATPSKEGDILKPEEETMEFPEGDKVKVILSKEDFEASLKEAGERLVAVDFSATWC  
GPCRTIRPFFHALSVKHEDVVFLEVDADNCEEVRECAIMCVPTFQFYKKEEKVDELCEGA  
LKEKLEAVIAELK

>sp|Q8NBS9|TXND5\_HUMAN Thioredoxin domain-containing protein 5 OS=Homo sapiens GN=TXNDC5  
PE=1 SV=2

MPARPGRLLPLLARPAALTALLLLLLGHGGGGRWGARAQEAADGPPAADGEDGQDP  
HSKHLTYADMFTHGIQSAAHFVMMFAPWCGHCQRLQPTWDLGDKYNSMEDAKVYVAKVD  
CTAHSQVCSAQGVRYPTLKLKFKPGQEAQVYQGPDRDFQTLNWMQLTLNEEPVTPPEPEVE  
PPSAPELQKGLYELASNFELHVAQGDHFIKFFAPWCGHCKALAPTWEQLALGLEHSETV  
KIGKVDCTQHYELCSGNQVRGYPTLLWFRDGGKVDQYKGRDLESLEYVESQLQRTETG  
ATETVTPSEAPVLAEEPADKGTVALTENNFDITIAEGITFIKFYAPWCGHCKTLAPTW  
EELSKKEFPGLAGVKIAEVDCTAERNICSKYSVRGYPTLLFRGGKKEVSEHSGGRDLDSL  
HRFVLSQAKDEL

>sp|O43396|TXNL1\_HUMAN Thioredoxin-like protein 1 OS=Homo sapiens GN=TXNL1 PE=1 SV=3

MVGKPVGSDPDFQPELSGAGSRLAVVKFTMRGCGPCLRIAPAFSSMSNKYPQAVFLEVD  
VHQCQGTAAATNNISATPTFLFRNKVRIDQYQGADAVGLEEKIKQHLENDPGSNEDTDIP  
KGYMDLMPFINKAGECLNESDEHGFNCLRKDTTFLESDCDEQLLITVAFNQPVKLYSM  
KFQGPNDGQGPYKIFINLPRSMDFEEAERSEPTQALELTEDDIKEDGIVPLRYVKFQN  
VNSVTIFVQSNQGEETTRISYFTFIGTPVQATNMNDFKRVVGKKGESH

>sp|P53007|TXTP\_HUMAN Tricarboxylate transport protein, mitochondrial OS=Homo sapiens  
GN=SLC25A1 PE=1 SV=2

MPAPRAPRALAAAPASGKAKLTHPGKAILAGGLAGGIEICITFPTEYVKTQLQLDERSH  
PPRYRGIGDCVRQTVRSHGVLGLYRGLSSLLYGSIPKAAVRFGMFEFLSNHMRDAQGRLD  
STRGLLCGLGAGVAEAVVVCPMETIKVKFIHDTSPNPKYRGFFHGVREIVREQGLKGT  
YQGLTATVLKQGSNAIRFFVMTSLRNWYRGDNPKNPMNPLITGVFGAIIAGAASVFGNTP  
LDVIKTRMQGLEAHKYRNTWDCGLQILKKEGLKAFYKGTVPRLGRVCLDVAIVFVIYDEV  
VKLLNKVWKTD

>sp|P62328|TYB4\_HUMAN Thymosin beta-4 OS=Homo sapiens GN=TMSB4X PE=1 SV=2  
MSDKPDMAEIEKFDKSKLKKTTETQEKNPSPKETIEQEKQAGES

>sp|Q96FX7|TRM61\_HUMAN tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit  
TRMT61A OS=Homo sapiens GN=TRMT61A PE=1 SV=1

MSFVAYEELIKEGDTAILSLGHGAMVAVRVQRGAQTQTRHGVLRHSDVLI GRPFGSKVTC  
GRGGWVYVLHPTPELWTLNLPHTQILYSTDIALITMMELELRPGSVVCESGTGSGSVSHA  
IIRTIAPTGHLHTVEFHQQRAEKAREEFQEHRVGRWVTVRTQDVCRSGFGVSHVADAVFL  
DIPSPWEAVGHAWDALKVEGGRFCFSFPCIEVQRTQCALAARGFSELSTLEVLPQVYNV  
RTVSLPPPDLTGTGDPAGSDTSPFRSGTPMKEAVGHTGYLTFATKTPG

>sp|P48995|TRPC1\_HUMAN Short transient receptor potential channel 1 OS=Homo sapiens  
GN=TRPC1 PE=1 SV=1

MMAALYPSTDLGASSSSLPSSPSSSPNEVMALKDVREVKEENTLNEKLFLLACDKGDY  
YMKKILEENSSGDLNINCVDLGRNAVITITENENLDILQLLLDYGCQSADALLVAIDS  
EVVGAVDILLNHRPKRSSRPTIVKLMEIRIQNPEYSTTMDVAPVILAAHRNNEYILTMLLK  
QDVSLPKPHAVGCECTLCSAKNKKDSLRSRFRLDIYRCLASPALIMLTEEDPILRAFEL  
SADKELSLVEVEFRNDYEELARQCKMFAKDLLAQARNSRELEVILNHTSSDEPLDKRGL  
LEERMNLSRLKLAIKYNQKEFVSQSNCCQFLNTVWFGQMSGYRRKPTCKKIMTVLTVGIF  
WPVLSLCYLIAPKSQFGRIIHTPFMKFI IHGASYFTFLLLLNLVSLVYNEDKKNTMGPAL  
ERIDYLLILWIIIGMIWSDIKRLWYEGLEDFLEESRNQLSFMNSLYLATFALKVVAHNKF  
HDFADRKDWD AFHPTLVAEGLFAFANVLSYLRLFFMYTTSSILGPLQISMGQMLQDFGKF  
LGMFLVLVFSFTIGLTQLYDKGYTSKEQKDCVGIFCEQQSNDTFHSFIGTCFALFWYIFS  
LAHVAIFVTRFSYGEELQSFVGAVIVGTYNVVVVIVLTKLLVAMLHKSFQLIANHEDKEW  
KFAKRLWLSYFDDKCTLPPPFNIIPSPKTCYMISSLSKWICSHTSKGKVKRQNSLKEW  
RNLKQKRDENYQKVMCCLVHRYLTSMRQKMQSTDQATVENLNELRQDLSKFRNEIRDLLG  
FRTSKYAMFYPRN

>sp|Q13507|TRPC3\_HUMAN Short transient receptor potential channel 3 OS=Homo sapiens  
GN=TRPC3 PE=1 SV=3

MREKGRRAVVRGPAFMFNDRGTSLTAEERFLDAAEYGNIPVVRKMLEESKTLNVNCVDY  
MGQNALQLAVGNEHLEVTELLKKENLARIGDALLAISKGYYRIVEAILNHPGFAASKR  
LTLSPEQELQDDDFYAYDEDGTRFSPDITPIILAAHCQKYEYVHMLLMKGARIERPHDY  
FCKCGDCMEKQRHDSFHSRSRINAYKGLASPAYLSLSEDPVLTALELSNELAKLANIE  
KEFKNDYRKLSMQCKDFVVGVLDCRDSEEVAILNGDLESAEPLEVHRHKASLSRVKLA  
IKYEVKKFVAHPNCQQQLTIWYENLSGLREQTIAIKCLVVLVVALGLPFLAIGYWIAPC  
SRLGKILRSPFMKFVAHAASFIIFLGLLVFNASDRFEGITLPNITVTDYPKQIFRVKTT  
QFTWTEMLIMVWVLGMMWSECKELWLEGPREYILQLWNVLDGMLSIFIAAFTARFLAFL  
QATKAQQYVDSYVQESDLSEVTLPPETIQYFTYARDKWLPSPDQIIISEGLYAIYVLSFSR  
IAYILPANESFGPLQISLGRVTKDIFKFMVLFIMVFFAFMIGMFIYLYYLAKVNAAFT  
TVEESFKTLFWSIFGLSEVTSVVLKYDHKFIENIGYVLYGIYNVTMVVLLNMLIAMINS  
SYQEIEDDSDEVKWFARSKLWLSYFDDGKTLPPPFSLVSPKSFVYFIMRIVNFPKCRRR  
RLQKDIEMGMGNSKSRNLFTQSNSRVFESHFSNLSILNQPTRYQQIMKRLIKRYVLKAQV  
DKENDEVNEGELKEIKQDISSRLRYELLEDKSQATEELAILHKLSEKLNPSMLRCE

>sp|Q8NET8|TRPV3\_HUMAN Transient receptor potential cation channel subfamily V member 3  
OS=Homo sapiens GN=TRPV3 PE=1 SV=2

MKAHPKEMVPLMGKRVAAAPSGNPAILPEKRPAEITPTKKS AHFFLEIEGFEPNPTVAKTS  
PPVFSKPMDSNIRQCISGNCDDMDSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKRRLK  
KRIFAAVSEGCVEELVELLVELQELCRRRHDEDVPDFLMHKL TASDTGKTCLMKALLNIN

PNTKEIVRILLAF AEENDILGRFINAEYTEEAYEGQTALNIAIERRQG DIAALLIAAGAD  
VNAHAKGAFFNP KYQHEGFYFGETPLALAACTNQPEIVQLLMEHEQTDITSRDSRGNNIL  
HALVTVAEDFKTQNDVFV KRM YDMILLRSGNWELETTRNNDGLTPLQLAAKMGAELKYI  
LSREIKEKRLRSLSRKFTDWAYGPVSSSLYDLTNVDTTT DNSVLEITVYNTNIDNRHEML  
TLEPLHTLLHMKWKKFAKHMFFLSFCFYFFYNITLTLVSYYRPREEEAIPHPLALTHKMG  
WLQLLGRMFVLIWAMCISVKEGIAIFLLRPSDLQSILSDAWFHFVFFIQAVLVILSVFLY  
LFAYKEYLACLVLAMALGWANMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYIVFLLG  
FGVALASLIEKCPKDNKDCSSYGSFSDAVLELFKLTIGLGD LNIQQNSKYPILFLFLIT  
YVILTFVLLL NMLIALMGETVENVSKESERIWRLQRARTILEFEKMLPEWLR SRFRMGEL  
CKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTDFNKIQDSSRNNSKTTLNAFE  
EVEEFPETSV

>sp|Q9HBA0|TRPV4\_HUMAN Transient receptor potential cation channel subfamily V member 4  
OS=Homo sapiens GN=TRPV4 PE=1 SV=2

MADSSEGPRAGPGEVAELPGDESGTPGGEAFPLSSLANLFEGEDGSLSPSPADASRPAGP  
GDGRPNLRMKFQGA FRKGV PNPIDLLESTLYESSVVP GPKKAPMDSLFDYGT YRHSSDN  
KRWRKKIIEKQPQSPKAPAPQPPPILKVFNRPI LFDIVSRGSTADLDGLLPFL LTHKKRL  
TDEEFREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPFRDIYYRGQT  
ALHIAIERRCKHYVELLVAQGADVHAQARGRFFQPKDEGGYFYFGELPLSLAACTNQPHI  
VNYLTENPHKKADMRRQDSRGNTVLHALVAIADNTRENTK FVT KMYDLLLLKCARLFPDS  
NLEAVLNNDGLSPLMMAAKTGKIGIFQHIIRREVTDEDTRHLSRKFKDWAYGPVSSLYD  
LSSLDTCGEEASVLEILVYNSKIENRHEMLAVEPINELLRDKWRKFGAVSFYINVVS YLC  
AMVIFTLTAYYQPLEGTPPYPYRTTVDYLR LAGEVITLFTGVLFFFTNIKDLFMKKCPGV  
NSLFIDGSFQLLYFIYSVLVIVSAALYLAGIEAYLAVMV FALVLGWMNALYFTRGLKLTG  
TYSIMIQKILFKDLFRFLLYLLFMIGYASALVSLNPCANMKVCNEDQTNCTVPTYPSC  
RDSETFSTFLDLFKLTIGMGDLEMLSSTKYPVVFII LLVTYIILTFVLLL NMLIALMGE  
TVGQVSKE SKHIWKLQWATTILD IERSFPVFLRKAFRSGEMVTVGKSSDGT PDRRWCFRV  
DEVNWSHWNQNLGIINEDPGKNETYQYYGFSHTVGRLRRDRWSSVVP RVVELNKNSNPDE  
VVVPLDSMGNPRCDGHQQGYPRKWRTDDAPL

>sp|P98066|TSG6\_HUMAN Tumor necrosis factor-inducible gene 6 protein OS=Homo sapiens  
GN=TNFAIP6 PE=1 SV=2

MIIL IYLFLLWEDTQGWGFKDIGFHNSIWLERAAGVYHREARSGKYKLTYAEAKAVCEF  
EGGHLATYKQLEAARKIGFHVCAAGWMAKGRVGYP IVKPGPNCGFGKTGIIDYGI RLNRS  
ERWDAYCYNPHAKECGGVFTDPKQIFKSPGFPNEYEDNQICYWHIRLKYGQRIHLSFLDF  
DLEDDPGCLADYVEIYDSYDDVHGFVGRYCGDEL PDDIISTGNVMTLKF LSDASVTAGGF  
QIKYVAMDPVSKSSQGKNTSTTSTGNKNFLAGRFSHL

>sp|Q9UJT2|TSKS\_HUMAN Testis-specific serine kinase substrate OS=Homo sapiens GN=TSKS  
PE=1 SV=3

MASVVVKTIWQSKEIHEAGDTPTGVESCSQLVPEAPRRVTSRAKGIPK KKKAVSFHGVEP  
QMSHQPMHWCLNLKRSSACTNVSLNLAAMEPTDSTGTDSTVEDLSGQLTLAGPPASPTL  
PWPDDADITEILSGVNSGLVRAKDSITSLKEKTNRVNQH VQSLQSECSVLSENLEERRRQ  
EAEELGYC IQLKENCWKVTRSVEDAEIKTNVLKQNSALLEEK LRYLQQQLQDET PRRQE  
AELQEPEEKQEPEEKQEPEEKQKPEAGLSWNSLGPAATSQGC PPGPSDPKPSRPHGLVP  
AGWGMGP RAGEGYPVSEQELQKLFTGIEELRREVSSLTARWHQEEGAVQEALRLLGGLGG  
RVDGFLGQWERAQREQAQTARDLQELRGRADELCTMVERS AVSVASLRSELEGLGPLKPI

LEEFGRQFQNSRRGPDLSMNLDRSHQGNCARCASQGSQSLSTESLQQLDRALTSLVDEVK  
QRGLTPACPSCQRLHKKILELERQALAKHVRAEALSSTLRLAQDEALRAKNLLTDMKP  
EEKMATLDHLHLKMCSLHDHLSNPLEGSTGTMGGSAGTPPKQGSAPEQ

>sp|Q8NG11|TSN14\_HUMAN Tetraspanin-14 OS=Homo sapiens GN=TSPAN14 PE=1 SV=1

MHYRYRNAKVSCWYKYLFSYNIIFWLAGVVFLGVGLWAWSEKGVLSDLTKVTRMHGID  
PVVLVLMVGVMFTLGFAGCVGALRENICLLNFFCGTIVLIFFLAVAVLAFLFQDWVR  
DRFREFFESNIKSYYDDIDLQNLIDSLQKANQCCGAYGPEDWDLNVYFNCSGASYSREKC  
GVPFSCCVPDPAQKVNTQCGYDVRIQLKSKWDESIFTKGCTQALESWLPRNIYIVAGVF  
IAISLLQIFGIFLARTLISDIEAVKAGHHF

>sp|Q8N831|TSYL6\_HUMAN Testis-specific Y-encoded-like protein 6 OS=Homo sapiens GN=TSPYL6  
PE=1 SV=1

MSPESPSPATLDYALEDPHQGQRSREKSKATEVMADMFDGRLEPIVFPPRLPEEGVA  
PQDPADGGHTFHILVDAGRSHGAIKAGQEVTPPPAEGLEAASASLTDGSLKNGFPGEET  
HGLGGEKALETGAGRSESEVIAEGKAEDVKPEECAMFSAPVDEKPGGEEMDVAEENRAI  
DEVNREAGPGPGPLNVGLHLNPLESIQLELDSVNAEADRALLQVERRFGQIHEYYLEQ  
RNDIIRNIPGFVWTAFRHHPQLSAMIRGQDAEMLSYLTNLEVKELRHPRTGCKFKFFFQR  
NPYFRNKLIVKVYEVRSFGQVVSFSTLIMWRRGHGPQSFHRNRHVICSFFTWFSDHSLP  
ESDRIAQIIKEDLSNPLQYYLLGEDAHRARRRLVREPVEIPRPFQCG

>sp|Q7Z4L5|TT21B\_HUMAN Tetratricopeptide repeat protein 21B OS=Homo sapiens GN=TTC21B  
PE=1 SV=2

MDSQELKTLINYYCQERYFHHVLLVASEGIKRYGSDPVFRFYHAYGLMEGKTQEALREF  
EAIKNKQDVSLCSLLALIYAHKMSPNPDREAILES DARVKEQRKGAGEKALYHAGLFLWH  
IGRHDKAREYIDRMIKISDGSQGHV LKAWLDITRGKEPYTKKALKYFEEGLQDGNDF  
LLGKAQCLEMRQNYSGALETVNQII VNFPSFLPAFVKMKLQLALQDWDQTVETAQRLLL  
QDSQNVEALRMQALYYVCREGDIEKASTKLENLGNTLDAMEPQNAQLFYNITLAFSRTCG  
RSQILQKIQTLLERAFSLNPQQSEFATELGQMILQGRVKEALKWYKTAMTLDETSVSA  
LVGFIQCQLIEGQLQDADQQLNEIQSIGKSAELIYLHAVLAMKKNRQEEVINLLN  
DVLDTHFSQLEGLPLGIQYFEKLPDFFLEIVMEYLSFCPMQPASPGQPLCPLLRRCISV  
LETVVRTVPGLLQTVFLIAKVYLSGDIEAAFNNLQHCLEHNPSYADAHLLLAQVYLSQE  
KVKLCSQSLELCLSYDFKVRDYPYHLIKAQSQKKMGEIADAIKTLHMAMSLPGMKRIGA  
STKSKDRKTEVDTSHRLSIFLELIDVHRLNGEQHEATKVLQDAIHEFSGTSEEVRTIAN  
ADLALAQGDIERALSILQNVTAEQPYFIEAREKMADIYLKHKDKMLYITCFREIAERMA  
NPRSFLLLGDAYMNILEPEEAIVAYEQALNQNPKGDTLASKMGKALIKTHNYSMAITYYE  
AALKTGQKNYLCYDLAELLKLKYDKAEKVLQHALAHEPVNELSALMEDGRCQVLLAKV  
YSKMEKLGDAITALQQARELQARVLKRVQMEQPDVPAQKHLAAEICAETAKHSVAQRDY  
EKAIKFYREALVHCETDNKIMLELARLYLAQDDPDSCLRQCALLQSDQDNEAATMMAD  
LMFRKQDYEQAVFHLQQLLERKPDNYMTLSRLIDLLRRCGLQEDVPRFFSMAEKRSRAK  
LEPGFYCKGLYLWYTGEPNALRHFNKARKDRDWGNALYNMIEICLNPDNETVGGVEF  
ENLDGDLGNSTEQESVQLAVRTAEKLLKELKPQTVQGHVQLRIMENYCLMATKQKSNVE  
QALNTFTEIAASEKEHIPALLGMATAYMILKQTPRARNQLKRIAKMNWNAIDAEFEKSW  
LLLADIYIQSAKYDMAEDLLKRCLRHNRSCCKAYEYMGYIMEKEQAYTDAALNYEMAWKY  
SNRTNPAVGKYLAFNYLKAKRYVDSIDICHQVLEAHTYPKIRKDILDKARASLRP

>sp|Q6IQ55|TTBK2\_HUMAN Tau-tubulin kinase 2 OS=Homo sapiens GN=TTBK2 PE=1 SV=2

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LKMEVAVLKKLQGKDHVCRFIGCGRNDRFNYVVMQLQGRNLADLRRSQSRGTFTISTTLR  
LGRQILESIESIHSVGLHRDIKPSNFAMGRFPSTCRKCYMLDFGLARQFTNSCGDVRPP  
RAVAGFRGTVRYASINAHNRNEMGRHDDLWSLFYMLVEFVVGQLPWRKIKDKEQVGSIKE  
RYDHRLMLKHLPPFESIFLDHISSLDYFTKPDYQLLTSVFDNSIKTFGVIESDPFDWEKT  
GNDGSLTTTTSTTPQLHTRLTPAAIGIANATPIPGDLLRENTDEVFPDEQLSDGENGIP  
VGVSPDKLPGSLGHPRPQEKDVWEEMDANKNKIKLGICKAATEEENSHGQANGLLNAPSL  
GSPIRVRSEITQPDRDIPLVRKLRSIHSFELEKRLTLEPKPDTDKFLETCLQEKMQKDTSA  
GKESILPALLHKPCVPAVSRTDHIWHYDEEYLPDASKPASANTPEQADGGGSNGFIAVNL  
SSCKQEIDSKIEWIVDKEQDLQDFRTNEAVGHKTTGSPSDEEPEVLQVLEASPQDEKLQL  
GPWAENDHLKKETSGVVLALSAEGPPTAASEQYTDRLQLPGAASQFIAATPTSLMEAQA  
EGPLTAITIPRPSVASTQSTSGSFHCGQPEKKDLQPMPTVELYSPRENFSGLVVTEGE  
PPSGGSRTDLGLQIDHIGHDMLPNIRESNKSQDLGPKELPDHNLVREFENLPGETEEK  
SILLESNDEKLSRGQHCIEISSLPGLVIVEKDHSATTEPLDVTKTQTFSVVPNQDKN  
NEIMKLLTVGTSEISSRIDPHVEGQIGQVAEMQKNKISKDDIMSEDLPGHQGDLSTFL  
HQEGKREKITPRNGELFHCVSENEHGAPTRKDMVRSSFVTRHSRIPVLAQEIDSTLESSS  
PVSAKEKLLQKKAYQPDVLKLLVEKRQFKSFLGDLSSASDKLLEEKLATVPAPFCEEEVL  
TPFSRLTVDSHLRSASDLSPLIISQSRKSKIPRPVSWNTDQVNSSTSSQFFRPPPPG  
KPPTRPGEARLRRYKVLGSSNSDSLFSRLAQILQNGSQKPRSTTQCKSPGSPHNPKTP  
PKSPVPPRRSPSASPRSSSLPRTSSSSPSRAGRPHHDQRSSSPHLGRSKSPPSHSGSSSS  
RRSCQQEHCKPSKNGLKSGSLHHHSASTKTPQGKSKPASKLSR

>sp|Q5W5X9|TTC23\_HUMAN Tetratricopeptide repeat protein 23 OS=Homo sapiens GN=TTC23 PE=1  
SV=1

MQESQETHISNHLDEVVAAVSITHRKKFQNKLLQTALFQPPREKLHLCEEKAKSYSNSHE  
YKQAVHELVRVALTRICYGDSHWKLAEAHVNLAQGYLQLKGLSLQAKQHA EKARQILAN  
SIVPPYSENTDVFKFSIELFHTMGRALLSLQKFKEAENLTKAERLSKELLQCGRIKEE  
WIEI EARI RLSFAQVYQGQKKSKEALSHYQA ALEYVEISKGETSRECVPI LRELAGEQA  
LGLHDVSI NHFLQAHLIILSRSPSQVEAADSAHIVAHAAVASGRHEHHDVAEQYFQESMA  
HLKDSEGMGR TKFLSIQDEFCHFLQMTGQKERATSILRESLEAKVEAFGDFSPEVAETYR  
LLGGADLAQGNHSGARKKLLKCLQITLLYGPQDKRTLATQQAMGMLSTAPKVASKPRQA  
SKAKVAFCTSI PQDTLLGKARPGTTAD

>sp|Q96NG3|TTC25\_HUMAN Tetratricopeptide repeat protein 25 OS=Homo sapiens GN=TTC25 PE=1  
SV=2

MSDPEGETLRSTFPSYMAEGERLYLCGEFSKAAQSFSNALYLQDGDKNCLVARSKCFLKM  
GDLERSLKDAEASLQSDPAFCGILQKAETLYTMGDFEFALVFYHRGYKL RPDREFRVGI  
QKAQEAINNSVGSPSSIKLENKGDL SFLSKQAENIKAQKQPQPMKHL LHPTKGEPKWKAS  
LKSEKTVRQLLGELYVDKEYLEKLLLEDL IKGTMKGGLTVEDLIMTGINYLDTHSNFWR  
QQKPIYARERDRKLMQEKWLRDHKRRPSQTAHYILKSLEDIDMLLTSGSAEGLQKAKEV  
LKKVLEWNKEEVPNKDEL VGNLYSCIGNAQIELGQMEALQSHRKDLEIAKEYDLPDAKS  
RALDNIGRVFARVGK FQQAIDTWEKIPLAKTTLEKTWLFHEIGRCYLELDQAWQAQNYG  
EKSQQCAEEEGDIEWQLNASVLVAQAQVKLRDFESAVNNFEKALERAKLVHNNEAQQAI I  
SALDDANKGI IREL RKTNYVENLKEKSEGEASLYEDRIITREKDMRRVRDEPEKVVKQWD  
HSEDEKETDEDEAFGEALQSPASGKQSVEAGKARSDLGAVAKGLSGELGTRSGETGRKL  
LEAGRRESREIYRRPSGELEQRLSGEFSRQEPEELKKLSEVGRPEPEELGKTQFGEIGET  
KKTGNEMEKEYE

>sp|Q96AY4|TTC28\_HUMAN Tetratricopeptide repeat protein 28 OS=Homo sapiens GN=TTC28 PE=1 SV=4

MEQSPPPAPEPTQGTPARSRRRREPESPPASAPIPLFGADTIGQRSPDGPVLSKAEFVE  
KVRQSNQACHDGFHTAIVLYNEALAVDPQNCILYSNRSAAVMKIQQYDKALDDAIKARL  
LNPKWPKAYFRQGVALQYLGRHADALAAFASGLAQDPKSLQLLVGMVEAAMKSPMRDSLE  
PTYQQLQKMKLDKSPFVVVSVVGQELLTAGHHGASVVVLEAALKIGTCSLKLRGSVFSAL  
SSAYWSLGNTEKSTGYMQDLDAKTLDGQTGECRAHGNLGSAFFSKGNYREALTNHRHQ  
LVLAMKLDREAASSALSSLGHVYTAIGDYPNALASHKQCVLLAKQSKDELSEARELGNM  
GAVYIAMGDFENAVQCHEHLKIAKDLGNKREEARAYSNLGSAYHYRRNFDKAMSYHNYV  
LELAQELMEKAIEMRAYAGLGHAARCMQDLERAKQYHEQQLGIAEDLKDRAAEGRASSNL  
GI IHQMKGDYDTALKLHKTHLCIAQELSDYAAQGRAYGNMGNAYNALGMYDQAVKYHRQE  
LQISMEVNDRASQASTHGNLAVAYQALGAHDRAMLQHYQNLNIARELTDIQLSEARALSNL  
GNFHCSRGEYVQAAPYYEQYLRLAPDLQDMEGEGKVCHNLGYAHYCLGNYQEAVKYEQD  
LALAKDLHDKLSQAKAYCNLGLAFKALLNFSKAEECQKYLSSLAQSLNNSQAKFRALGNL  
GDIFICKKDINGAIKFYEQQLGLAHQVKDRRLEASAYAALGTAYRMIQKYDKALGYHTQE  
LEVYQELSDLPGECAHGHAAVYMALGKYTMAFKCYEEQLDLGQKLKDPSEAVVYGNM  
GITKMNVMVMEEAIGYFEQQLAMLQQLSGNESVLDGRAYGNLGDCEALGDYEEAIKYY  
EQYLSVAQSLNRMQDQAKAYRGLGNHGRAMGSLQQALVCFEKLVAHELGEAFNKAQAY  
GELGSLHSQLGNYEQAI SCLERQLNIARDMKDRALES AACGLGGVYQQMGEYDTALQYH  
QLDLQIAEETNNPTCQGRAYGNLGLTYESLGTFERAVVYQEQHLSIAAQMNDLAAKTVSY  
SSLGRTHHALQNYSAVMYLQEGRLAEQLGRREDEAKIRHGLGLSLWASGNLEEAQHQL  
YRASALFETIRHEAQLSTDYKLSLFDLQTSSYQALQRVLVSLGHHDEALAVAERGRTRAF  
ADLLVERQTGQQSDPYSPVTIDQILEMVNGQRGLVLYSLAAGYLYSWLLAPGAGIVKF  
HEHYLGENTVENSSDFQASSSVTLPTATGSALEQHIA SVREALGVESHYSRACASSETES  
EAGDIMDQQFEEMNNKLSNSVTDPGTGLRMVRRNNLFNRSQCQSMSTSLFSNTVSPTQDGTSS  
LPRRQSSFAPKPLRALYDLLIAPMEGGLMHSSGPVGRHRQLILVLEGELYLIPFALLKGS  
SSNEYLYERFGLLAVPSIRSLSVQSKSHLRKNPPTYSSSTSMAAVIGNPKLPSAVMDRWL  
WGPMPSAEEEEAYMVELLGCPLVGSVATKERVMSALTQAECVHFATHISWKL SALVLT  
SMDGNPASSKSSFGHPYTIPELSRVQDDASDGESISDCPPLQELLLTAADVLDLQLPVKL  
VVLGSSQESNSKVTADGVIALTRAFLAAGACVLSLWVPVPAASKMFIHAFYSSLLNGL  
KASAALGEAMKVVSQKAFSHPSNWAGFMLIGSDVKLNSPSSLIGQALTEILQHPERARD  
ALRVLHLVEKSLQRTQNGQRNAMYTSQQSVENKVGIPGWQALLTAVGFRLDPPTSGLP  
AAVFFPTSDPGDRLQCSSTLQSLGLPNPALQALCKLITASETGEQLISRAVKNMVGML  
HQVLVQLQAGEKEQDLASAPIQVSI SVQLWRLPGCHEFLAALGFDLCEVGQEEVILKTGK  
QANRRTVHFALQSLSLFDSTELPKRLSLDSSSSLESLSAQSVSNALPLGYQQPPFSPT  
GADSIASDAISVYSLSSIASSMSFVSKPEGGSEGGGPGGRQDHDRSKNAYLQRSTLPRSQ  
LPPQTRPAGNKDEEEYEGFSII SNEPLATYQENRNTCFSPDHKQPQPGTAGGMRVSVSSK  
GSISTPNSPVKMTLIPSPNSPFQKVGKLASSDTGESDQSSTETDSTVKSQEESENPKLDPQ  
ELAQKILEETQSHLIAVERLQRSGGVSKSNPEDGVQAPSSTAVFRASETSAFSRPVLS  
HQKSQSPSVTVKPKPPARSSSLPKVSSGYSSPTTSEMSIKDSPSQHSGRPSPGCDSQTSQ  
LDQPLFKLYPSSPYSAHISKSPRNMSPSGHQSPAGSAPSPALSYSSAGSARSSPADAP  
DIDKLKMAAIDEKVQAVHNLKMFQSTPQHSTGPMKIFRGAPGTMTSKRDVLSLLNLSPR  
HNKKEEGVDKLELQSLQHDGAPPKAPPNGHWRTETTSLSGLPLPAGPPATAPARPLR  
LPSGNGYKFLSPGRFFPSSKC



>sp|Q49AM3|TTC31\_HUMAN Tetratricopeptide repeat protein 31 OS=Homo sapiens GN=TTC31 PE=1 SV=3

MAPIPKTVGRIKDCSLRPSCPLEVAAAPKLCKEFGPEDYGEEDIVDFLRRLVESDPQGL  
HRIHVDGSSGRLQLWHHDYLLGHLDDDEGKSTGQSDRGKGAEGLGTYCGLRKSFLYPQES  
EPCQSPSASATFPSVSDSLLQVAMPQKLLVTEEEANRLAEELVAEEERMKQKAEKKRLK  
KKRQKERKRQERLEQYCGEPKASTTSDGDESPSSPGNPVQGQCGEEDSLDLSSTFVSL  
ALRKVGDWPLSARREKGLNQEPQGRGLALQKMGQEEESPPREERPQQSPKVQASPGLLAA  
ALQQSQELAKLGTSAFQNGFYHEAVVLFQTALKLNPDHRLFGNRSFCHERLGQPAWALA  
DAQVALTLRPGWPRGLFRLGKALMGLQRFREAAAVFQETLRGGSQPDAARELRSCLLHLT  
LQGQRGGICAPPLSPGALQPLPHAELAPSGPLSLRCRSTALRSPGLSPLLHYPSCHRSH  
PNQPLSQTQSRPHPLKPQDPSKQWDILGLGLQHLSQAR

>sp|Q5R3I4|TTC38\_HUMAN Tetratricopeptide repeat protein 38 OS=Homo sapiens GN=TTC38 PE=1 SV=1

MAAASPLRDCQAWKDARLPLSTTSNEACKLFDATLTQYVWNTDKSLGGIEGCLSKLAAA  
DPTFVMGHAMATGLVLIGTGSSVKLDKELDLAVKTMVEISRTQPLTRREQLHVS AVETFA  
NGNFPKACELWEQILQDHPTDMLALKFSDHAYFYLG YQE QMRDSVARIYPFWTPDIPLSS  
YVKG IYSFGLMETNFYDQAEKLAKEALSINPTDAWSVHTVAHIHEMKA EIKDGLEFMQHS  
ETFWKSDMLACHNYHWALYLIEKGEYEAALTIYDTHILPSLQANDAML DVV DSCSMLY  
RLQMEGVS V GQRWQDVL PVARKHSRDHILLFNDAHFLMASLGAHDPQT TQELL T TLRDAS  
ESPGENCQHLLARDVGLPLCQALVEAEDGNPD RVLELLLP IRYRIVQLGGSNAQRDVFNQ  
LLIHAALNCTSSVHKNVARSLLMERDALKPNSPLTERLIRKAATVHLMQ

>sp|Q86TV6|TTC7B\_HUMAN Tetratricopeptide repeat protein 7B OS=Homo sapiens GN=TTC7B PE=1 SV=3

MATKKAGSRLETEIERCRSECQWERIPELVKQLSAKLIANDDMAELL LGESKLEQYLKEH  
PLRQGASPRGPKPQLTEVRKHLTAALDRGNLKSEFLQESNLIMAKLNYVEGDYKEALNIY  
ARVGLDDLPLTAVPPYRLRVIAEAYATKGLCLEKLPISSSTSNLHVDREQDVITCYEKAG  
DIALLYLQEIERVILSNIQNRSPKPGPAPHDQELGFFLETGLQRAHVLYFKNGNLTRGVG  
RFRELLRAVETRITTQNLMTIARQLAEILLRGMCEQSYWNPLEDPPCQSPLDDPLRKGAN  
TKTYTLTRRARVYSGENIFCPQENTEEALLLLISESMANRDAVLSRIPEHKS DRLISLQ  
SASVYDLLTIALGRRGQYEMLSECLERAMKFAFEFHLWYQFALS LMAAGKSARAVKVL  
KECIRLKPDDATIPLAAKLCMGLHWLEEA EKFAKT VVDVGEKTSEFKAKGYLALGLTY  
SLQATDASLRGMQEVLRKALLAFQRAHSLSPTDHQA AFYLAQLAISRQIPEALGYVRQ  
ALQLQGDDANSLHLLALLLSAQKH YHDALNIIDMALSEYPENFILLFSKVKLQSLCRGPD  
EALLTCKHMLQIWKSCYNLTNPSDSGRGSSLLDRTIADRRQLNTITLPDFSDPETGSVHA  
TSVAASRVEQALSEVASSLQSSAPKQGPLHPWMTLAQIWLHAAEVYIGIKPAEATACTQ  
EAANLFPMSHNVL YMRGQIAELRGSMDEARRWYEEALAI SPTHVKSMQRLALILHQLGRY  
SLAEKILRDAVQVNSTAHEVWNLGEVLQAQGNDAATECFLTALELEASSPAVPFTIIP  
RVL

>sp|Q8TAM2|TTC8\_HUMAN Tetratricopeptide repeat protein 8 OS=Homo sapiens GN=TTC8 PE=1 SV=2

MSSEMEPLLLAWSYFRRRKFQLCADLCTQMLEKSPYDQEPDPELPVHQA AWILKARALTE  
MVYIDEIDVDQEGIAEMMLDENAI AQVPRPGTSLKLPGTNQTGGPSQAVRPITQAGRPIT  
GFLRPSTQSGRPGTMEQAIRTPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRL  
NLTKYSQKPKLAKALFEYIFHHENDVKTIHLEDVVLHLGIYPFLLRNKNHIEKNALDLAA

LSTEHSQYKDWWWKVQIGKCYRRLGMYREAEKQFKSALKQQEMVDTFLYLAKVYVSLDQP  
VTALNLFKQGLDKFPGEVTLTCGIARIYEEMNNMSSAAEYKVKQDNTHVEAIACIGS  
NHFYSQDQPEIALRFYRRLQMGYINGQLFNNLGLCCFYAQQYDMTLTSFERALSLAENEE  
EAADVWYNLGHVAVGIGDTNLAHQCFRLALVNNNNHAEAYNNLAVLEMRKGHVEQARALL  
QTASSLAPHMYEPHFNFATISDKIGDLQRSYVAAQKSEAAFPDHVDTQHLLIKQLRQHFAM  
L

>sp|Q6NXR4|TTI2\_HUMAN TEL02-interacting protein 2 OS=Homo sapiens GN=TTI2 PE=1 SV=1  
MELDSALEAPSQEDSNLSEELSHSAFGQAFSKILHCLARPEARRGNVKDAVLKDLGDLIE  
ATEFDRLFEGTGARLRGMPETLGGVAKALEKYAAPSKEEEGGDGHSEAAEKAAQVGLLF  
LKLLGKVETAKNSLVGPAWQTGLHHLAGPVYIFAITHSLEQPWTTPRSREVAREVLTSL  
QVTECGSVAGFLHGENEDEKGRLSVILGLLKPDLYKESWKNNPAIKHVFSWTLQQVTRPW  
LSQHLELVLPASLVISDDYQ TENKILGVHCLHHIVLNPAADLLQYNRAQVLYHAISNHL  
YTPEHHLIQAVLLCLDLFPILKTLHWKGDGARPTTHCDEVLRILTHMEPEHRLRLRR  
TYARNLPAPVNRGLILTVRHLKRLERVIIGYLEVYDGPPEEARLKILETLKLLMQHTWPR  
VSCRLVLLKALLKLICDVARDPNLTPESVKSALLQEATDCLILLDRCSQGRVKGLLAKI  
PQSCEDRKVVNYIRKVQQVSEGAPYNGT

>sp|Q8N3L3|TXLNB\_HUMAN Beta-taxilin OS=Homo sapiens GN=TXLNB PE=1 SV=3  
MEANHSEQLSAERQSTPPGDSSSLPSHNGLEKEDGQDSPTPVQPPEKEASVHPDISEELN  
RQLEDIINTYGSAASTAGKEGSARASEQPENAESPDNEDGDCEETTEEAGREPVASGEPP  
TVKEPVSNKEQKLEKKILKGLGKEANLLMQNLNKLQTPEEKFDLFLKKYAELLDEHRTEQ  
KKLKLQKKQVQIQKEKDQLQGEHSRAILARSKLESCLRELQRHNKTLKEEALQRAREEE  
EKRKEITSHFQSTLTDIQGQIEQQSERNMKLCQENTELAEKLKSIIDQYELREEHLDKIF  
KHRELQKKLVDAKLEQAQEMMKEAERHKREKEYLLNQAAEWKLQAKVLKEQETVLAQQL  
TLYSGRFEEFQSTLTKSNEVFATFKQEMDKTTKMKKLEKDTATWKARFENCNKALLDMI  
EEKALRAKEYECFVMKIGRLENLCRALQEERNELHKKIRDAEISEKDDQSQHNSDEEPES  
NVSDQEI DAEEVNSVQTAVKNLATAFMIHHPESTPHQSKETQPEIGSSQESADAALKE  
PEQPPLIPSRDESPLPPLTPQAEAGGSDAEPSPKASNSPAGLGAETQCEGLPVGAQAD  
QASWKPEAEASGQAPQAPTEASLQKMEADVAPACAAEEHVAAMVPACEPSRQPPRAAAE  
ELPVGASAGPQPRNVADTNLEGVD

>sp|Q9H3M7|TXNIP\_HUMAN Thioredoxin-interacting protein OS=Homo sapiens GN=TXNIP PE=1 SV=1  
MVMFKIKISFEVVFNDPEKVYSGEKVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGS  
QQCKQTSEYLRVEDTLLEDQPTGENEMVIMRPGNKYEYKFGFELPQGGLGTSFKGKYGC  
VDYVWKAFLDRPSQPTQETKKNFEVVDLVDVNTPDLMAPVSAKKEKKVSCMFIPDGRVSV  
SARIDRKGFCGEDEISIHADFENTCSRIVVPKAAIVARHTYLANGQTKVLTQKLSSVRGN  
HIISGTCASWRGKSLRVQKIRPSILGCNLRVEYSLLIYVSVPGSKKVIDLPLVIGSRS  
GLSRTSSMASRTSSEMSWVDLNIPDTPEAPPCYMDVIPEDHRLESPTTPLLDDMDGSQD  
SPIFMYAPEFKFMPPTTYTEVDPCILNNNVQ

>sp|Q06418|TYRO3\_HUMAN Tyrosine-protein kinase receptor TYRO3 OS=Homo sapiens GN=TYRO3  
PE=1 SV=1  
MALRRSMGRPGLPPLPLPPPPRLGLLLAALASLLLPESAAAGLKLMAAPVKLTVSQGQPV  
KLNCSEGMEEPDIQWVKDGAVVQNLDQLYIPVSEQHWIGFLSLKSVERSDAGRYWCQVE  
DGGETEISQPVWLVEGVPFPTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIVWWRGTTKI  
GGPAPSPSVLNVGTGTQSTMFSCAEHNLKGLASSRTATVHLQALPAAPFNITVTKLSSSN  
ASVAWMPGADGRALLQSCTVQVTQAPGGWEVLAVVVPVPPFTCLLRDLVPATNYSRLVRC

ANALGSPSPYADWVPFQTKGLAPASAPQNLHAIRTDGLILEWEEVIPEAPLEGPLGPYKL  
SWVQDNGTQDELVEGTRANLTGWDPQKDLIVRVCSNAVCGPWSQPLVVSSHDRAGQQ  
GPPHSRTSWVPVVLGVLTAALALILLRKRKTRFGQAFDSVMARGEPVHFRAA  
RSFNRRERPERIEATLDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQE  
DGSFVKVAVKMLKADIIASSDIEEFLREAACMKEFDHPHVAKLVGVSLRSRAKGRLP  
IPMVILPFMKHGDHLAFLASRIGENPFNLPLQTLIRFMVDIACGMEYLSSRNFIHRDLAARN  
CMLAEDMTVCVADFGLSRKIYSGDYRQGCASKLPVKWLALESLADNLYTVQSDVWAFGV  
TMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEDVYDLMYQCWSADPKQRPSFT  
CLRMELENILGQLSVLSASQDPLYINIERAEEPTAGGSLELPGRDQPYSGAGDGS  
GMGAVGGTPSDCRYILTPGGLAEPGQAEHQPEPLNETQRLLLLQQGLLPHSSC

>sp|P14679|TYRO\_HUMAN Tyrosinase OS=Homo sapiens GN=TYR PE=1 SV=3

MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGSCQNILL  
SNAPLGPQFPFTGVDDRESWPSVFYNRTCQCSGNFMGFNCGNCKFGFWGPNCTERRLLVR  
RNIFDLSAPEKDKFFAYLTLAKHTISSDYVPIGTYGQMKNGSTPMFNDINIYDLFVWMH  
YYVSM DALLGGSEIWRDIDFAHEAPAFLPWHRLFLLRWEQEIQKLTGDENFTIPYDWRD  
AEKCDICTDEYMGQHPNTNPNLLSPASFFSSWQIVCSRLEEYNHQSCLNGTPEGPLRRN  
PGNHDKSRTPLRPSSADVEFCLSLTQYESGSM DKAANFSFRNTLEGFASPLTGIADASQS  
SMHNALHIYMNGTMSQVQGSANDPIFLLHHAFVDSIFEQWLRHRPLQEVYPEANAPIGH  
NRESYMPFIPLYRNGDFFISSKDLGYDYSYLQSDPDSPFQDYIKSYLEQASRIWSWLLG  
AAMVGAVLTALLAGLVSLLCRHKRKQLPEEKQPLLMEKEDYHSLYQSHL

>sp|Q13077|TRAF1\_HUMAN TNF receptor-associated factor 1 OS=Homo sapiens GN=TRAF1 PE=1 SV=1

MASSSGSSPRPAPDENEFPFGCPPTVCQDPKEPRALCCAGCLSENPRNGEDQICPKCRGE  
DLQSI SPGSRLRTQEKAHPEVAEAGIGCPFAGVGCSFKGSPQSVQEHEVTSQTSHLNLLL  
GFMKQWKARLGCGLESGPMALQNLSDLQLQAAVEVAGDLEVD CYRAPCSESQEELALQH  
FMKEKLLAELEGKLRVFENIVAVLNKEVEASHLALATSIHQSQLDRERILSLEQRVVELQ  
QTLAQKDQALGKLEQSLRLMEEASFDGTFWLKITNVTRRCHESACGRTVSLFSPAFYTAK  
YGYKLCLRLYLNGDGTGKRTHLSLFIIVMRGEYDALLPWPFRNKVTFMLLDQNNREHAID  
AFRPDLSSASFQRPQSETNVA SGCLFFPLSKLQSPKHAYVKDDTMFLKCIVETST

>sp|Q12933|TRAF2\_HUMAN TNF receptor-associated factor 2 OS=Homo sapiens GN=TRAF2 PE=1 SV=2

MAAASVTTPGSLELLQPGFSKTLTGKLEAKYLCACRNVLRRPFQAQCGHRYCSFCLAS  
ILSSGPQNCAACVHEGIYEEGISILESSSAFPD NAARREVESLPAVCPSDGCTWKGTLKE  
YESCHEGRCPMLTECPACKGLVRLGEKERHLEHECPERSLSRHCRA PCCGADVKAHHE  
VCPKFPLTCDGCGKKKIPREKFQDHVKTGKCRVPCRFAIGCLETVEGEKQQEHEVQWL  
REHLAMLLSSVLEAKPLLGDQSHAGSELLQRCESELEKKTATFENIVCVLNREVERVAMTA  
EACSRQHRLDQDKIEALSSKVQLERSIGLKD LAMADLEQKVLEMEASTYDGVFIWKISD  
FARKRQEAVAGRIPAIFSPAFYTSRYGYKMCLRIYLN DGTGRGTHLSLFFVVMKGPNDA  
LLRWPFNQKVTMLLDQNNREHVIDAFRPDVTSSSFQRPVNDMN IASGCPLFCPVSKMEA  
KNSYVRDDAIFIKAIVDLTGL

>sp|B7Z8K6|TRDC\_HUMAN T-cell receptor delta chain C region OS=Homo sapiens GN=TRDC PE=1 SV=2

SQPHTKPSVFMKNGTNVACLKVEFYPKDIRINLVSSKKITEFDPAIVISPSGKYNAVKL  
GKYEDSNSVTCSVQHDKNTVHSTDFEVKTDSTDHV KPKETENTKQPSKSCHKPKAIVHTE

KVNMMSLTVLGLRMLFAKTVAVNFLLTAKLFFL

>sp|Q9NSU2|TREX1\_HUMAN Three-prime repair exonuclease 1 OS=Homo sapiens GN=TREX1 PE=1 SV=1

MGPGARQQGRIVQGRPEMCFPPPTPLPLRLITLGTHTPTPCSSPGSAAGTYPTMGSQA  
LPPGPMQTLIFFDMEATGLPFSQPKVTELCLLAVHRCALESPPTSQGPPTVPPPPRVVD  
KLSLCVAPGKACSPAASEITGLSTAVLAAHGRQCFDDNLNLLLAFLRRQPQPWCLVAHN  
GDRYDFPLLQAEAMLGLTSALDGAFCVDSITALKALERASSPSEHGPRKSYSLGSIYTR  
LYGQSPDSTAEQDVLALLSICQWRPQALLRWVDAHARPFGTIRPMYGVTAARTKPRP  
SAVTTTAHLATTRNTSPSLGESRGTDLPPVKDPGALSREGLLAPLGLLAILTLAVATLY  
GLSLATPGE

>sp|P02788|TRFL\_HUMAN Lactotransferrin OS=Homo sapiens GN=LTF PE=1 SV=6

MKLVLVLLFLGALGLCLAGRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDS  
PIQCIQAIENRADAVTLDGGFIYEAGLAPYKLRPVAAEVYGTERRPRTHYYAVAVVKKG  
GSFQLNELQGLKSCHTGLRRTAGWNPVIGTLRPFLNWTGPPEPIEAAVARFFSASCVPGA  
DKGQFPNLCRLCAGTGKCAFSSQEPYFSYSGAFKCLRDGAGDVAFIRESTVFEDLSDE  
AERDEYELLCPDNTRKPVDFKFDCHLARVPSHAVVARSVNGKEDAIWNLLRQAQEKFGKD  
KSPKFQLFGSPSGQKDLLFKDSAIGFSRVPPRIDSGLYLGSYFTAIQNLKSEEEVAAR  
RARVVWCAVGEQELRKCNQWSGLSEGSVTCSSASTTEDCIALVLKGEADAMSLDGGYVYT  
AGKCGLVPLAENYKSSQSSDPDPCVDRPVEGYLAVAVRRSDTSLTWNVSKGKKSCHT  
AVDRTAGWNIPMGLLFNQTSCKFDEYFSQSCAPGSDPRSNLCALCIGDEQGENKCVNS  
NERYYYGTGAFRCLAENAGDVAFVKDVTVLQNTDGNNNEAWAKDLKLADFALLCLDGKRK  
PVTEARSCHLAMAPNHAVVSRMDKVERLKQVLLHQAKFGRNGSDCPDKFCLFQSETKNL  
LFNDNTECLARLHGKTTYEKYLGFPQYVAGITNLKKCSTSPLEACEFLRK

>sp|Q8WV44|TRI41\_HUMAN E3 ubiquitin-protein ligase TRIM41 OS=Homo sapiens GN=TRIM41 PE=1 SV=3

MAAVAMTPNPVQTLQEEAVCAICLDYFTDPVSI GCGHNFRCVCTQLWGGEDEEDRDELD  
REEEEDGEEEEEVAVGAGAGWDTPMRDEDYEGDMEEEVEEEEGVFWTSGMSRSSWDNM  
DYVWEEEDDEEDLDYYLGDMEEEDLRGEDEDEEEVLEEVEEDLDPVTPLPPPPAPRRC  
FTCPQCRKSFRRSFRPNLQLANMVQVIRQMHPPTGRGSRVTDQGICPKHQEALKLFCEV  
DEEAICVVCRESRSHKQHSVVPLEEVEVQYKAKLQGHVEPLRKHLEAVQKMKAKEERRVT  
ELKSQMKSELA AVASEFGRLTRFLAEQAGLERRLREMHEAQLGRAGAAASRLAEQAAQL  
SRLLAEAQERSQQGGLRLLDIKETFNRCEEVQLQPPEVWSPDPCQPHSHDFLTDAIVRK  
MSRMFCQAARVDLTDPDTAHPALMLSPDRRGVRLAERRQEVADHPKRFSADCCVLGAQG  
FRSGRHYWEVEVGRRGWAVGAARESTHHKEKVGGSSVSGSDASSRHHHRRRLHLP  
QQPLLQREVWCVTNGKRYQAQSTEQTLLSPSEKPRRFGVYLDYEAGRLGFYNAETLAH  
VHTFSAAFLGERVFPFVRVLSKGTRIKLCP

>sp|Q86XT4|TRI50\_HUMAN E3 ubiquitin-protein ligase TRIM50 OS=Homo sapiens GN=TRIM50 PE=1 SV=1

MAWQVSLELEDWLQCPICLEVFKEPLMLQCGHSYCKGCLVSLSCHLDAELRCPVCRQAV  
DGSSSLPNVSLARVIEALRLPGDPEPKVCVHHRNPLSLFCEKDQELICGLCGLLGSHQHH  
PVTVPSTVYSRMKEELAALISELKQEKKVDELI AKLVNNRTRIVNESDVFSWVIRREFQ  
ELHHLVDEEKARCLEGIGGHTRGLVASLDMQLEQAQGTRERLAQAECVLEQFGNEDHHKF  
IRKFHSMASRAEMPQARPLEGAFSPISFKPGLHQADIKLTVWKRLFRKVLPAPEPLKLDP  
ATAHPLLELSKGN TVVQCGLLAQRRASQPERFDYSTCVLASRGFSCGRHYWEVVVGSKSD

WRLGVIKGTASRKGKLNRSPEHGVWLIGLKEGRVYEAFACPRVPLPVAGHPHRIGLYLHY  
EQGELTFDADRPDDLRLPLYTFQADFQGKLYPILDTCWHERGSNSLPMVLPPPSGPGPLS  
PEQPTKL

>sp|A6NGJ6|TRI64\_HUMAN Tripartite motif-containing protein 64 OS=Homo sapiens GN=TRIM64  
PE=2 SV=4

MDSDDLQVFQNELICCVNYFIDPVTIDCGHSFCRPCLCLCSEEGRAPMRCPSCKRISE  
KPNFNTNVVLKKLSSLARQTRPQNINSSDNICVLHEETKELFCEADKRLLCGPCSESPEH  
MAHSHSPIGWAAEECREKLIKEMDYLWEINQETRNNLNQETRTFHSLKDYSVRKRIITI  
QYQKMPIFLDEEEQRHLQALEREAEELFQQQLQDSQVRMTQHLERMKDMYRELWETCHVPD  
VELLQDVNRVSARTDLAQMQKPQPVNPELTSWCITGVLDMLNNFRVDSALSTEMIPCYIS  
LSEDRVYVIFGDDHLSAPTDPQGVDSFAVWGAQFTSGKHYWEVDVTLSSNWILGVCQDS  
RTADANFVIDSDERFFLISSKRSNHYSLSSTNSPPLIQYVQRPLGQGVFLDYDNGSVSFF  
DVSKGSLIYGFPSSFSSPLRPFFCFGCT

>sp|Q9C037|TRIM4\_HUMAN E3 ubiquitin-protein ligase TRIM4 OS=Homo sapiens GN=TRIM4 PE=1  
SV=2

MEAEDIQEELTCPICLDYFQDPVSIECGHNFRCGLHRNWAPGGGPFPCPECRHPSAPAA  
LRPNWALARLTEKTQRRRLGPVPPGLCGRHWEPLRLFCEDDQRPVCLVCRESQEHQTHAM  
APIDEAFESYRTGNFDIHVDEWKRRLLRLLLYHFKQEEKLLKSQRNLVAKMKVMHLQDV  
EVKNATQWKDKIKSQRMRISTEFSLHNFLVEEEDLFLQRLNKEEEETKKKLNENTLKLN  
QTIASLKKLILEVGEKSQAPTELLQNPKEVLTRSEIQDVNYSLEAVKVKTVCQIPLMKE  
MLKRFQVAVNLAEDTAHPKLVFSQEGRYVKNTASASSWPVFSSAWNYFAGWRNPQKTAFV  
ERFQHLPCVLGKNVFTSGKHYWEVESRDSLEVAVGVCREDVMGITDRSKMSPDVGIIWAIY  
WSAAGYWPLIGFPGTPTQQEPALHRVGYYLDRGTGNVSFYSAVDGVHLHTFSCSSVSRLR  
PFFWLSPLASLVIPPVTDK

>sp|Q9C035|TRIM5\_HUMAN Tripartite motif-containing protein 5 OS=Homo sapiens GN=TRIM5  
PE=1 SV=1

MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSMLDKGESSCPVCRI  
SYQPENIRPNRHVANIVEKLREVKLSPEGQKVDHCAHGEKLLLFCQEDGKVICWLCERS  
QEHRGHHTFLTEEVAAREYQVKLQAAEMLRQKQQAEELEADIREEKASWKTQIQYDKTN  
VLADFEQLRDILDWEESNELQNLKEKEEDILKSLTNSETEMVQQTQSLRELISDLEHRLQ  
GSVMELLQGVDPVIRKTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTDVRRYWVD  
VTVAPNNISCAVISEDKRQVSSPKPQIIYGARGTRYQTFVNFNYCTGILGSQSITSGKHY  
WEVDVSKKTAWILGVCAGFPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHT  
PSVPFIVPLSVIICPDRVGVFLDYEACTIONITNHGFLIYKFSHCSFSQPVPYLNPR  
KCGVPMTLCSPPS

>sp|Q9BZR9|TRIM8\_HUMAN Probable E3 ubiquitin-protein ligase TRIM8 OS=Homo sapiens  
GN=TRIM8 PE=1 SV=2

MAENWKNCFEEELICPILHVFVEPVQLPCKHNFCRGCIGEAWAKDSGLVRCPECNQAYN  
QKPGLEKNLKLTNIVEKFNALHVEKPAAALHCVFCRRGPPLPAQKVCLRCEAPCCQSHVQ  
THLQQPSTARGHLLVEADDVRAWSCPQHNAIRLYHCEAEQVAVCQYCCYYSGAHQHSVC  
DVEIRRNEIRKMLMKQQDRLEEREQDIEDQLYKLESDKRLVEEKVNQLKEEVRLQYEKLH  
QLLDEDLRQTVEVLDKAQAKFCSENAAQALHLGERMQEAKLLGSLQLLFDKTEDVSFMK  
NTKSVKILMDRTQTCTSSSLSPKIGHLNSKFLFLNEVAKKEKQLRKMLEGPFSTPVPFLQ  
SVPLYPCGVSSSGAEKRKHSTAFPEASFLETSSGPVGGQYGAAGTASGEGQSGQPLGPCS

STQHLVALPGGAQPVHSSPVFPSPQYPNGSAAQQPMLPQYGGRKILVCSVDNICYCSSVAN  
HGGHQPYPRSGHFPWTVPSQEYSHPLPPTSPVQSLPSLAVRDWLDASQQPGHQDFYRVY  
GQPSTKHVYTS

>sp|Q9C026|TRIM9\_HUMAN E3 ubiquitin-protein ligase TRIM9 OS=Homo sapiens GN=TRIM9 PE=1  
SV=1

MEEMEEELKCPVCGSFYREPIILPCSHNLCQACARNILVQTPESESPQSHRAAGSGVSDY  
DYLDLDKMSLYSEADSGYGSYGFFASAPTPCQKSPNGVRVFPPAMPPPATHLSPALAPV  
PRNSCITCPQCHRSLILDDRGLRGFPKNRVLEGVIDRYQQSKAAALKCQLCEKAPKEATV  
MCEQCDVFYCDPCRLRCHPPRGPLAKHRLVPPAQGRVSRRLSPRKVSTCTDHELENHSMY  
CVQCKMPVCYQCLEEGKHSHEVKALGAMWKLHKSQLSQALNGLSDRAKEAKEFLVQLRN  
MVQQIQENSVEFEACLVAQCDALIDALNRRKAQLLARVNKEHEHKLKVVVDQISHCTVKL  
RQTTGLMEYCLEVIKENDPSGFLQISDALIRRVHLEDQWGKGTLPRTTDFDLSLDNS  
PLLQSIHQDLFVQVKASSPVPATPILQLEECCTHNNSATLSWKQPPLSTVPADGYILELD  
DNGGGQFREYVVGKETMCTVDGLHFNSTYNARVKAFNKTGVSPYSKTLVLQTSEVAWFAF  
DPGSAHSDIILSNDNLTVTCSSYDDRVLGKTGFSKGIHYWELTVDRYDNHPDPAFGVAR  
MDVMKDVMLGKDDKAWAMYVDNNSWFMHNSHTNRTEGGITKGATIGVLLDLNRKNLTF  
FINDEQQPIAFDNVEGLFFPAVSLNRNVQVTLHTGLPVPDFYSSRASIA

>sp|075962|TRIO\_HUMAN Triple functional domain protein OS=Homo sapiens GN=TRIO PE=1 SV=2

MSGSSGAAAPAASSGPAASAAAGSGCGGGGAGEGAEEAAKDLADIAAFFRSGFRKNDEM  
KAMDVLPILKEKVAYLSGGRDKRGGPILTFPARSNHDIRQEDLRLISYLACIPSEEV  
KRGFTVIVDMRGSKWDSIKPLLKILQESFPCCIHALIIKPDNFWQKQRTNFGSSKFEFE  
TNMVSLEGLTKVVDPSQLTPEFDGCLEYNHEEWIEIRVAFEDYISNATHMLSRLEELQDI  
LAKKELPQDLEGARNMIEHSQKKKVIKAPIEDLDLEGQKLLQRIQSSESFPKNSGSG  
NADLQNLPLKVSTMLDRLHSTRQHLHQMWHVRKLKLDQCFQLRLEQDAEKMFDWITHNK  
GLFLNSYTEIGTSHPHAMELQTQHNHFAMNCMNYYVNIINRIMSVANRLVESGHYASQQIR  
QIASQLEQEWKAFAAALDERSTLLDMSSIFHQKAEKYSNVDSWCKACGEVDLPSELQDL  
EDAIIHHHQGIYEHITLAYSEVSQDGKSLDKLQRPLTPGSSDSLTAANYSKAVHHVLDV  
IHEVLHHQRQLENIWQHRKVRLHQRLQLCVFQQDVQQVLDWIENHGEAFLSKHTGVGKSL  
HRARALQKRHEDFEEVAQNTYTNADKLLEAAEQLAQTGECDPEEIQAAHQLEDRIQDFV  
RRVEQRKILLDMSVSFHTHVKEWLTWLEELQKELLDDVYAESVEAVQDLIKRFGQQQQT  
LQVTNVIKEGEDLIQQLRDSAISSNKTPHNSSINHIETVLQQLDEAQSQMEELFQERKI  
KLEFLQLRIFERDAIDIISDLESWNDELSQQMNDFDTEDLTIAEQRLQHHADKALTMNN  
LTFDVIHQGDLLQYVNEVQASGVELLCDRDVDMATRVQDLLEFLHEKQQLDLAAEQHR  
KHLEQCQVQLRHLQAEVKQVLGWIRNGESMLNAGLITASSLQAEQLQREHEQFQHAIEKT  
HQSALVQVQKAEAMLQANHYDMDMIRDCAEKVASHWQQLMLKMEDRLKLVNASVAFYKTS  
EQVCSVLESLEQEYKREEDWCGGADKLGPNSETDHVTPMISKHLEQKEAFLKACTLARRN  
ADVFLKYLHRNSVNMPGMVTHIKAPEQQVKNILNELFQRENRLHYWTMRKRRLDQCQY  
VVFERSAKQALEWIHDNGEFYLSHTSTGSSIQHTQELLEKEHEEFQITAKQTKERVKLLI  
QLADGFCEKGHAHAAEIKKCVTAVDKRYRDFSLRMEKYRTSLEKALGISSDSNKSSKSLQ  
LDIIPASIPGSEVKLRDAAHELNEEKRSARRKEFIMAELIQTEKAYVRDLRECMDTYLW  
EMTSGVEEIPPGIVNKELIIFGNMQEIEYEFHNNIFLKELEKYEQLPEDVGHCFTWADKF  
QMYVTYCKNKPDSQTLILEHAGSYFDEIQQRHGLANSISSYLKPVQRITKYQLLLKELL  
TCCEEGKEIKDGLEVMLSVPKRANDAMHLSMLEGFDENIESQGELILQESFQVWDPKTL  
IRKGRERHLFLFEMSLVFSKEVKDSSGRSKYLYKSKLFTSELGVTEHVEGDPCKFALWVG

RTPTSDNKIVLKASSIENKQDWIKHIREVIQERTIHLKGALKEPIHIPKTAPATRQKGRR  
DGEDLDSQGDGSSQPDITISIASRTSQNTLSDKLSGGCELTVVIHDFACNSNELTIRRG  
QTVEVLERPHDKPDWCLVRTTDRSPAAEGLVPCGSLCIAHSRSMEMEGIFNHKDSLVS  
SNDASPPASVASLQPHMIGAQSSPGPKRPGNTLRKWLTSVPRRLSSGKADGHVKKLAHKH  
KKSREVRKSADAGSQKSDSDSAATPQDETVEERGRNEGLSSGTLSSSSSGMQSCGEEEG  
EEGADAVPLPPPMAIQHSLQPDSDQDDKASSRLLVRPTSSETPSAAELVSAIEELVKSK  
MALEDPRSSLLVDQGDSSSPFNPSDNSLLSSSSPIDEMEERKSSSLKRRHYVLQELVET  
ERDYVRDLGYVVEGYMALMKEDGVPDDMKGKDKIVFGNIHQIYDWHRDFFLGELEKCLE  
PEKGLSLFVKHERRLHMYIAYCQNKPKSEHIVSEYIDTFEDLKQRLGHRLQLTDLLIKP  
VQRIMKYQLLLKDFLKYSKKASLDTSELERAVEVMCIVPRRCNDMMNVGRLQGFDGKIVA  
QGKLLQLDFTLVTDQAGLLPRCRERRIFLFEQIVIFSEPLDKKKGFSMPGFLFKNSIKV  
SCLCLEENVENDPCKFALTSTRTGDVVETFILHSSSPSVRQTWIHEINQILENQRNLFNAL  
TSPIEQRNHSGGGGGGGSGGGGGGGSGGGGAPSGGSGHSGGPSSCGGAPSTSRSRPSR  
IPQPVRRHPPVLVSSAASSQAEADKMSGTSTPGPSLPPPGAPEAGPSAPSRPPGADAE  
GSERAEPIPKMKVLESPRKGAANASGSSPDAPAKDARASLGTLPKGPRAGAASPLNSP  
LSSAVPSLGKEFPFPSSPLQKGGFWSSIPASPARPGSFTFPGDSDSLQRQTTPRHAAPG  
KDTDRMSTCSSASEQSVQSTQNGSESSSSSNISTMLVTHDYTAVKEDEINVYQGEVVQI  
LASNQNMFLVFRAATDQCPAAEGWIPGFVLGHTSAVIVENPDGTLKKSTSWHTALRLRK  
KSEKKDKDGKREGKLENGYRKSREGLSNKVSVKLLNPNIYDVPPEFVIPLSEVTCETGE  
TVVLRRCVCGRPKASITWKGEHNTLNNDGHYSISYDLGEATLKIVGVTTEDDGIYTCI  
AVNDMGSSASSASRLVLGPGMDGIMVTWKDNFDSFYSEVAELGRGRFSVVKCDQKGTKR  
AVATKRVNKKLMKRDQVTHELGILQSLQHPLLVGLLDTFETPTSYILVLEMAQGRLLDC  
VVRWGSLETKIRAHLEGEVLEAVRYLHNCRIAHLDLKPENILVDESLAKPTIKLADFGDA  
VQLNTYYIYHQLLGNPEFAAPEIILGNPVSLTSDTWSVGVLTYVLLSGVSPFLDDSVET  
CLNICRLDFSFPDDYFKGVSVQAKEFVCFLQEDPAKRPSAALALQEQWLQAGNGRSTGV  
LDSRLTSFIERRKHQNDVRPIRSIKNFLQSRLPRV

>sp|Q96GJ1|TRM2\_HUMAN tRNA (uracil(54)-C(5))-methyltransferase homolog OS=Homo sapiens  
GN=TRMT2B PE=1 SV=1

MAGLKRRVPLHSLRYFISMVGLFSKPGLLPWYARNPPGWSQLFLGTVCCKGDFTRVIATKC  
QKGQKSQKKPSHLGPLDGSWQERLADVVTPLWRLSYEEQLKVKFAAQKKILQRLESYIQM  
LNGVSVTTAVPKSERLSCLLHPIIPSPVINGYRNKSTFSVNRGPDGNPKTVGFYLGTRD  
GNVVCVQSNHLKNIPEKHSQAQYYEVFLRQSPLEPCLVFHEGGYWRELTVRTNSQGHTM  
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VVNPARAGLHYKVIQAIRNFRAIHTLVFVSCKLHGESTRNVIELCCPPDPAKKLLGEPFV  
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>sp|Q9Y4A5|TRRAP\_HUMAN Transformation/transcription domain-associated protein OS=Homo sapiens  
GN=TRRAP PE=1 SV=3

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ENTVPPPEMVGMITTIAVKVNEREDSETRTHSII PRGSLSLKVLAE LPIIVVLMYQLYK  
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LVTKYSQQMVKGMLQLLSNCPAETAHLRKELLIAAKHILTTelRNQFIPCMDKLFDESIL  
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TTDFDFSVP GSKMLHNLISK LKKWIKILEAKTKQLPKFFLIEEKRFLSNFSAQTAEVEI  
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LDANRPVPFR LTPNISEFLT TIGVSGPLTASMIAVARCF AQPNFKVDGILKTVLRDEIIA  
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>sp|P07478|TRY2\_HUMAN Trypsin-2 OS=Homo sapiens GN=PRSS2 PE=1 SV=1

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AGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIRHPKYNSRTLDNDILLIKLSSPAVIN  
SRVSAISLPTAPPAAGTESLISGWGNTLSSGADYPDELQCLDAPVLSQAEC EASYPGKIT  
NNMFCVGFLEGGKDSCQGD SGGPVVSN GELQGIVSWGYGCAQKNRPGVYTKVYNYVDWIK  
DTIAANS

>sp|Q9NRR2|TRYG1\_HUMAN Tryptase gamma OS=Homo sapiens GN=TPSG1 PE=2 SV=3

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HVC GGSLLSPQWVLTA AHCFSGSLNSSDYQVHLGELEITLSPHFSTVRQIILHSSPSGQP  
GTSGDIALVELSVPVTLSSRILPVCLPEASDDFCPGIRCWVTGWGYTREGEPLPPYSLR  
EVKVSVD TETCRRDYPGPGGSILQPDMLCARGPGDACQDDSGGPLVCQVNGAWVQAGTV  
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>sp|Q8TE23|TS1R2\_HUMAN Taste receptor type 1 member 2 OS=Homo sapiens GN=TAS1R2 PE=3 SV=2

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EYEVK VIGYNLMQAMRFAVEEINNDSLLPGVLLGYEIVDVCYISNNVQPVLYFLAHEDN  
LLPIQEDYSNYISR VVAVIGPDNSESVMTVANFLSLFLLPQITYSAISDEL RDKVRFPAL  
LRTTPSADHHIEAMVQLMLHFRWNWIIVLVSSDTYGRDNGQLGERVARRDICI AFQETL  
PTLQPNQNM TSEERQRLVTIVDKLQQSTARVVVVFSPDLTYHFFNEVL RQNFTGAVWIA  
SESWAIDPV LHNLT ERLHGLTFLGITIQSVPIPGFSEFREWGPQAGPPPLSRTS QSYTCN  
QEC DNCLNATLSFNTILRLSGERVVYSVYSAVAVAHALHSLLGCDKSTCTKRVVYPWQL  
LEEIWKVNFTLLDHQIF FDPQGDVALHLEIVQWQWDRSQNPFSVASYYPLQRQLKNIQD  
ISWHTINNTIPMSMCSKRCQSGQKKKPVGIHVCCFECIDCLPGTFLNHTED EYECQACPN  
NEWSYQSETSCFKRQLVFLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG  
GPMCFLMLTLLL VAYMVVPVYVGPPKVSTCLCRQALFPLCFTICISCI AVRSFQIVCAFK  
MASRFPRAYSYWVRYQG PYVSMAFITVLKMVI VVIGMLATGLSPTTRTDPDDPKITIVSC  
NPNYRNSLLFNTSLDLLSVVGFSFAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM  
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>sp|P49815|TSC2\_HUMAN Tuberin OS=Homo sapiens GN=TSC2 PE=1 SV=2

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ALFFKVIKDYPSEDHERLEVFKALTDNGRHITYLEELADFLQWMDVGLSSEFLVL  
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LGLDSGELQSGPESSSSPGVHVRQKEAPAKLESQAGQVSRGARDVRSRMSGHGLRVG  
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FLQLYHSPFFGDESINKPILLPNESQSFSERSVQLLDQIPSYDTHKIAVLYVGEQSNSELA  
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IATLMPTKDVDKHKRCDKRRHLGNDFVSIYVNDSGEDFKLGTIKGQFNFVHVIVTPLDYEC  
NLVSLQCRKDMEGLVDTSVAKIVSDRNLPFVARQMALHANMASQVHHSRSNPTDIYPSKW  
IARLRHIKRLRQRICEEAAYSNSPLVHPPSHSKAPAQTPAEPTPGYEVGQRKRLISSV  
EDFTEFV

>sp|Q96FV3|TSN17\_HUMAN Tetraspanin-17 OS=Homo sapiens GN=TSPAN17 PE=2 SV=2

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LDPVWLFVVVGGVMSVLGFAGCIGALRENTFLLKFFSVFLGLIFFLELATGILAFVKDW  
IRDQLNLFINNIVKAYRDDIDLQNLIDFAQEYWSCCGARGPNDWNLNIYFNCTDLNPSRE  
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>sp|P35443|TSP4\_HUMAN Thrombospondin-4 OS=Homo sapiens GN=THBS4 PE=1 SV=2

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ISTFKLQTKSSATIFGLYSSTDNSKYFEFTVMGRLNKAILRYLKNDGKVHLVVFNNLQLA  
DGRHRHILLRLSNLQRGAGSLELYLDCIQVDSVHNLPRAFAGPSQKPETIELRTFQRKPQ  
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CTDSRDGFQCGPCPEGYTGNGITCIDVDECKYHPCYPGVHCINLSPGFRCDACPVGFTGP  
MVQGVGISFAKSNKQVCTDIDECRNGACVPNSICVNTLGSYRCGPCKPGYTGDIQIRGCKA  
ERNCRNPPELNPCSVNAQCIEERQGDVTCVCGVGWAGDGYICGKDVIDSYDPDEELPCSAR  
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DACDNCLSVLNNDQKDTDGDGRGDACDDMDGDGIKNILDNCPKFPNRDQRDKDGDGVGD  
ACDSCPDSVSNPNQSDVDNDLVGDSCTDNQSDGDGHQDSTDNCPTVINSALDITDKDGIG  
DECDDEDDNDGIPDLVPPGPDNCR LVPNPAQEDSNSDGVGDICESDFDQDQVIDRIDVCP  
ENAEVTLTDFRAYQTVVLDPEGDAQIDPNWVVLNQGMEIVQTMNSDPGLAVGYTAFNGVD  
FEGTFHVNTQTDDDYAGFIFGYQDSSSFYVVMWKQTEQTYWQATPFRAVAEPGIQLKAVK  
SKTGPGEHLRNSLWHTGDTSDQVRLLWKDSRNVGWKDKVSYRWFLQHRPQVGYIRVRFYE  
GSELVADSGVTIDTMRGGRLGVFCFSQENI IWSNLKYRCNDTIPEDFQEFQTQNFDRFD  
N

>sp|Q969E8|TSR2\_HUMAN Pre-rRNA-processing protein TSR2 homolog OS=Homo sapiens GN=TSR2  
PE=1 SV=1

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ELDEVEDFLGELLTNEFDTVVEDGSLPQVSQQLQTMFHHFQRGDGAALREMAESCITQRKC  
KVTATALKTARETDEDEDVDVSVEEMEVTATNDGAATDGVCPQPEPSDPDAQTIKEEDIV  
EDGWTIVRRKK

>sp|Q8NFU3|TSTD1\_HUMAN Thiosulfate sulfurtransferase/rhodanese-like domain-containing  
protein 1 OS=Homo sapiens GN=TSTD1 PE=1 SV=3

MAGAPTIVSLPELRSLLASGRARLFDVRSREEAAAGTIPGALNIPVSELESALQMEPAAFQ  
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>sp|Q9UJ04|TSYL4\_HUMAN Testis-specific Y-encoded-like protein 4 OS=Homo sapiens GN=TSPYL4  
PE=1 SV=2

MSGLDGGNKLPLAQTTGGLAAPDHASGDPDRDQCQGLRETEATQVMANTGGGSLETVAEG  
GASQDPVDCGPALRVPVAGSRGGAATKAGQEDAPPSTKGLEAASAAEADSSQKNGCQLG  
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KEKKVAGGVKEETRPRAPKINNCDMSLEAIDQELSNVNAQADRAFLQLERKFGMRRLHM  
QRRSFIIQNIPGFVWTAFRNHPQLSPMISGQDEDMRYMINLEVEELKHPRAGCKFKFIF  
QGNPYFRNEGLVKEYERRSSGRVVSLSPTIRWHRGQDPQAHIHNRNREGNTIPSFFNWFSD  
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>sp|Q9H892|TTC12\_HUMAN Tetratricopeptide repeat protein 12 OS=Homo sapiens GN=TTC12 PE=1  
SV=2

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FSTAGNDAVEEMCVSVLKLWQAVCSRNEENQVRVLIHHDRLRLAALLSSKVLAIQQS  
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FQANLPGVLPALTGVLTDPKVSSSSALCQCIAIMGNLSAEPTTRRHMAACEEFGDGCLS  
LLARCEEDVDLFREVIYTLGLMMNLCLQAPFVSEVWAVEVSRRCLSLLSQDGGILTRA  
AGVLSRTLSSSLKIVEEALRAGVVKMMKFLKTGGETASRYAIKILAICTNSYHEAREEV  
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>sp|Q6DKK2|TTC19\_HUMAN Tetratricopeptide repeat protein 19, mitochondrial OS=Homo sapiens  
GN=TTC19 PE=1 SV=4

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DALRLAYQTDNKKAITTYDLMANLAFIRGQLENAEQLFKATMSYLLGGGMKQEDNAIE  
ISLKLASIYAAQNRQEFVAGYEFCISTLEEKIEREKELAEDIMSVEEKANTHLLGMCL  
DACARYLLFSKQPSQAQRMYEKALQISEEIQGERHPQTIVLMSDLATTLDAQGRFDEAYI  
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>sp|P53804|TTC3\_HUMAN E3 ubiquitin-protein ligase TTC3 OS=Homo sapiens GN=TTC3 PE=1 SV=2

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QEKKEIQERLKS LKKIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIE  
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PDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELSKVQISELSFPACNTV  
HPELLPESSGDDGQLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE  
ATQLTGPKRAGQAALSERSPVADRKPVPVPPGRAARSSQSPKKPFNSII EHL SVVFPCYNS  
TELAGFIKKVRSKNKNSL SGLSIDEIVQRVTEHILDEQKKKKPNPGDKRKYEPSSATPV  
TRSSQGSPSVVAPSPKTKGQKAEDVPVRIALGASSCEICHEVF KSKNVRVLKCGHKYHK

GCFKQWLKQGSACPACQGRDLLTEESPSGRGWPSQNQELPSCSSR

>sp|Q8N6N2|TTC9B\_HUMAN Tetratricopeptide repeat protein 9B OS=Homo sapiens GN=TTC9B PE=2 SV=1

MQRGALSPVLMLSAAPEPPPRPPALSPPGSGPGSGSRHGSARPGTPEPSGSLGAALDS  
SLRAAVAFKAEGQRCYREKKFREAIQKYHRALLQLKAAQGARPSGLPAPAPGPTSSPGPA  
RLSEEQRRLEVSTEVECYDSLTAQLLQSELVNYERVREYCLKVLEKQQGNFKATYRAGIA  
FYHLGDYARALRYLQEARSREPTDTNVLRYIQLTQLKMNRCSLQREDSGAGSQTRDVIG

>sp|P02766|TTHY\_HUMAN Transthyretin OS=Homo sapiens GN=TTR PE=1 SV=1

MASHRLLLLCLAGLVFVSEAGTGTGESKCPMLVKVLDVRGSPAINVAVHVFRKAADD  
TWEFASGKTSESGELHGLTTEEEFVEGIYKVEIDTKSYWKALGISPFHEHAEVFTANDS  
GPRRYTIAALLSPYSYSTTAVVTNPKE

>sp|Q14679|TTLL4\_HUMAN Tubulin polyglutamylase TTLL4 OS=Homo sapiens GN=TTLL4 PE=1 SV=2

MASAGTQHYSIGLRQKNSFKQSGPSGTVPATPPEKPSSEGRVWPQAHQQVKPIWKLEKKQV  
ETLSAGLGPGLLGVPPQPAYFFCPSTLCSSGTTAVIAGHSSCYLHSLPDLFNSTLLYRR  
SSYRQKPYQQLESFCLRSSPSEKSPFSLPQKSLPVSLTANKATSSMVFSMAQPMASSTE  
PYLCLAAAGENPSGKSLASAIQKIPSLSSSYKPMNNNSFMWPNSTPVPLLQTTQGLK  
PVSPPKIQPVSWHHSGGTGDCAPQVDHKVPKISIGTVPADASAHIALSTASSHDTSTTSV  
ASSWYNRNNLAMRAEPLSCALDDSDSQDPTKEIRFTEAVRKLARGFEKMPRQGCQLEQ  
SSFLNPSFQWNVLNRSRRWKPPAVNQFPQEDAGSVRRVLPASDTLGLDNTVFCTKRIS  
IHLLASHASGLNHNPAESVIDSSAFGEKAPGPPFPQTLGIANVATRLSSIQLGQSEKE  
RPEEARELDSSDRDISSATDLQPDQAETEDTEEELVDGLEDCSRDENEEEEEGDSECSL  
SAVSPSESVAMISRSCMEILTKPLSNHEKVVRPALIYSLFPNPPTIYFGTRDERVEKLP  
WEQRKLLRWKMSTVTPNIVKQITGRSHFKISKRNDDWLGCGHHMKSPSFRSIREHQKLN  
HFPGSFQIGRKDRLWRNLSRMQSRFGKKEFSFFPQSFILPQDAKLLRKAWESSRQKWIV  
KPPASARGIGIQVIHKSQPLKRRPPLLQRYLHKPYLISGSKFDLRIYVYVTSYDPLRIY  
LFSDGLVRFASCKYSPSMKSLGNKFMHLTNYSVNKNAEYQANADEMACQGHKWKALKALW  
NYLSQKGVNSDAIWEKIKDVVVKTIISSEPYVTSLLKMYVRRPYSCHELFQFDIMLDENL  
KPWVLEVNISPSLHSSPLDISIKQMIRDLLNLAGFVLPNAEDIISSPSSCSSTTSLP  
TSPGDKCRMAPEHVTAKMKKAYYLTKIPDQDFYASVLDVLTDPDDVRLVEMEDEFSSR  
GQFERIFPSHISRYLRFFEQPRYFNILTTQWEQKYHGKCLKGVDLLRSWCYKGFHMGVV  
SDSAPVWSLPTSLLTISKDDVILNAFSKSETSKLGKQSSCEVSLLSLEDGTTPKSKKTQA  
GLSPYPQKPSKSDSEDTSKESLSTQTLPVIKCSGQTSRLSASSTFQSISDSLLAVSP

>sp|P49638|TPA\_HUMAN Alpha-tocopherol transfer protein OS=Homo sapiens GN=TPA PE=1 SV=1

MAEARSQPSAGPQLNALPDHSPLLQPLAALRRRAREAGVPLAPLPLTDSFLLRFLRARD  
FDLDLAWRLKNYYKWRAECPEISADLHPRSIIGLLKAGYHGVLRSRDPTGSKVLIYRIA  
HWDPKVFTAYDVFRVSLITSELIVQEVETQRNGIKAIFDLEGWQFSHAFQITPSVAKKIA  
AVLTDSFPLKVRGIHLINPVIHAFVSMIKPFLTEKIKERIHMHGNNYKQSLQHFDPDI  
LPLEYGGEFSMEDICQEWTFIMKSEDYLSSESISIQ

>sp|Q8IXB3|TUSC5\_HUMAN Tumor suppressor candidate 5 OS=Homo sapiens GN=TUSC5 PE=2 SV=2

MAHPVQSEFPSAQEPGSAAFDLPEMEILLTKAENKDDKTLNLSKTLGPDLEQNSQGL  
PFKAISEGHLEAPLPRSPSRASSRRASSIATTSYAQDQEAAPRDYLILAVVACFCPVWPLN  
LIPLIISIMSRSSMQGNVDGARRLGRRLARLLSITLIIMGIVIMVAVTVNFTVQKK

>sp|A6NH52|TV23A\_HUMAN Golgi apparatus membrane protein TVP23 homolog A OS=Homo sapiens  
GN=TVP23A PE=2 SV=3

MKQALVDDTEDVSLDFGNEEELAFRKAKIRHPLATFFHLFFRVSAIVTYVSCDWFSKSFV  
GCFVMVLLLLSLDFWSVKNVTGRLLVGLRWVNQIDEDGKSHWIFEARKVSPNSIAATEAE  
ARIFWLGLIICPMIWIIVFFSTLFSCLKWLALVVAGISLQAANLYGYILCKMGGNSDIG  
KVTASFLSQTVFQTACPGDFQKPGLEGLEIHQH

>sp|AOA5B9|TRBC2\_HUMAN T-cell receptor beta-2 chain C region OS=Homo sapiens GN=TRBC2  
PE=1 SV=1

DLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWVWNGKEVHSGVSTDPQ  
PLKEQPALNDSRYCLSSRLRVSATFWQNPРНHFRСQVQFYGLSENDEWTQDRAKPTQIV  
SAEAWGRADCGFTSESYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDSRG

>sp|Q9BQ50|TREX2\_HUMAN Three prime repair exonuclease 2 OS=Homo sapiens GN=TREX2 PE=1  
SV=1

MGRAGSPLPRSSWPRMDDCGSRSCSPTLCSSLRTCYPRGNITMSEAPRAETFVFLDLEA  
TGLPSVEPEIAELSLFAVHRSSLENPEHDESGALVLPRLDKLTLCMCPERPFTAKASEI  
TGLSSEGLARCRKAGFDGAVVRTLQAFLSRQAGPICLVAHNGFDYDFPLLCAELRRLGAR  
LPRDTVCLDTLPALRGLDRAHSHGTRARGRQGYSLGSLFHRYFRAEPSAAHSAEGDVHTL  
LLIFLHRAAELLAWADEQARGWAHIEPMYLPDDPSLEA

>sp|POCF51|TRGC1\_HUMAN T-cell receptor gamma chain C region 1 OS=Homo sapiens GN=TRGC1  
PE=1 SV=1

DKQLDADVSPKPTIFLPSIAETKLQKAGTYLCLLEKFFPDVIKIHWEKKSNTILGSQEG  
NTMKTNDTYMKFSWLTVPKESLDKEHRCIVRHENNKNGVDQEIIFFPIKTDVITMDPKDN  
CSKDANDTLLQLTNTSAYMYLLLLLKSVMYFAIITCCLLRRTAFCCNGEKS

>sp|P03986|TRGC2\_HUMAN T-cell receptor gamma-2 chain C region OS=Homo sapiens GN=TRGC2  
PE=1 SV=1

DKQLDADVSPKPTIFLPSIAETKLQKAGTYLCLLEKFFPDIIKIHWEKKSNTILGSQEG  
NTMKTNDTYMKFSWLTVPKESLDKEHRCIVRHENNKNGIDQEIIFFPIKTDVTTVDPKDS  
YSKDANDVITMDPKDNWSKDANDTLLQLTNTSAYMYLLLLLKSVMYFAIITCCLLGRT  
AFCCNGEKS

>sp|Q9UKU6|TRHDE\_HUMAN Thyrotropin-releasing hormone-degrading ectoenzyme OS=Homo sapiens  
GN=TRHDE PE=2 SV=1

MGEDDAALRAGSRGLSDPWADSVGVRPRTTERHIAVHKRLVLAFAVSLVALLAVTMLAVL  
LSLRFDECGASATPGADGGPSGFFPERGGNSLPGSARRNHHAGGDSWQPEAGGVASPGTT  
SAQPPSEEEREPWPWTQLRLSGHLKPLHYNMLTAFMENFTFSGEVNVEIACRNATRYV  
VLHASRVAVEKVQLAEDRAFGAVPVAGFFLYPQTQVLVVNLNRTLDAQRYNLKIIYNAL  
IENELGFFRSSYVLHGERRFLGVTQFSPTHARKAFPCFDEPIYKATFKISIKHQATYLS  
LSNMPVETSVFEEDGWVTDHFSQTPLMSTYYLAWAICNFTYRETTTKSGVVVRLYARPDA  
IRRGSGDYALHITKRLIEFYEDYFKVPYSLPKDLLAVPKHPYAAMENWGLSIFVEQRIL  
LDPSVSSI SYLLDVTMVIHVEICHQWFGDLVTPVWVEDVWLKEGFAHYFEFVGTDYLYPG  
WNMEKQRFLTDLVHEVMLLDGLASSHPVSQEVQLATDIDRVFDWIAYKKGAALIRMLANF  
MGHSVFQRGLQDYLTIHKYGNAARNDLWNTLSEALKRNGKYVNIQEVMDQWTLQMGYPVI  
TILGNTTAENRIIITQQHFIYDISAKTKALKLQNNSYLWQIPLTIVGNRSHVSSEAIIW  
VSNKSEHHRITYLDKGSWLLGNINQTYFRVNYDLRNWRLIDQLIRNHEVLSVSNRAGL  
IDDAFSLARAGYLPQNIPIEIIRYLSEEKDFLPWHAASRALYPLDKLLDRMENYNIFNEY  
ILKQVATTYIKLGWPKNNFNGLSVQASYQHEELRREVIMLACSFGNKHCHQQASTLISDW  
ISSNRNRIPLNVRDIVYCTGVSLLEDVWEFIWMKFHSTTAVSEKKILLEALTCSDDRNL

LNRLNLNLSNSEVLDQDAIDVIIHVARNPHGRDLAWKFFRDWKILNTRYGEALFMNSK  
LISGVTEFLNTEGELKELKNFMKNYDGVAAASFRAVETVEANVRWKMLYQDELFWLGK  
ALRH

>sp|O15344|TRI18\_HUMAN E3 ubiquitin-protein ligase Midline-1 OS=Homo sapiens GN=MID1 PE=1  
SV=1

METLESELTCPICLELFEDPLLLPCAHSLCFNCAHRILVSHCATNESVESITAFQCPTCR  
HVITLSQRGLDGLKRNVTLNIIIDRFQKASVSGPNPSETRRERAFDANTMTSAEKVLCQ  
FCDQDPAQDAVKTCVTCEVSYCDECLKATHPNKKPFTGHRLEIPDSHIRGLMCLEHED  
EKVNMVCTDDQLICALCKLVGRHRDHQVAALSERYDKLKQNLESNLTNLIKRNTELETL  
LAKLIQTCQHVEVNASRQEAKLTEECDLLIEIIQRRQIIIGTKIKEGKVMRLRKLAQQIA  
NCKQCISRSASLISQAEHSLKENDHARFLQTAKNITERVSMATASSQVLIPEINLNDTFD  
TFALDFSREKKLLECLDYLTA NPPTIREELCTASYDTITVHWTSDDEFSSVSYELQYTI  
FTGQANVVSCLNSADSWMIVPNIKQNHVTVHGLQSGTKYIFMVKAINQAGSRSSSEPGLK  
TNSQPFKLDPKSAHRKLKVSHDNLTVREDESSKKSHTPERFTSQGSYGAGNVFIDSGR  
HYWEVVISGSTWYAIGLAYKSAPKHEWIGKNSASWALCRCNNWVVRHNSKEIPIEPAPH  
LRRVGILLDYDNGSIAFYDALNSIHLTYFDVAFAPVCPTFTVWNKCLTIITGLPIPDHL  
DCTEQLP

>sp|P36406|TRI23\_HUMAN E3 ubiquitin-protein ligase TRIM23 OS=Homo sapiens GN=TRIM23 PE=1  
SV=1

MATLVVNKLGAQVDSGRQSGRGTA VVKVLECGVCEDVFSLQGDKVPRLLLCGHTVCHDCL  
TRLPLHGRAIRCPFDRQVTDLGDSGVWGLKKNFALLELLERLQNGPIGQYGAEEESIGIS  
GESIIRCDEDEAHLASVYCTVCATHLCSECSQVTHSTKTAKHRRVPLADKPHEKTMCSQ  
HQVHAIEFVLCLEEGCQTSPLMCCVCKEYKGHQGHKHSVLEPEANQIRASILDMAHCIRTF  
TEEISDYSRKLVGIVQHIEGGEQIVEDGIGMAHTEHVPGTAEANARSCIRAYFYDLHETLC  
RQEEMLSVDVAHVREKLIWLRRQQEDMTILLSEVSAACLHCEKTLQQDDCRVVLAKQEI  
TRLLETLQKQQQQTVEADHIQLDASIPVTFTKDNRVHIGPKMEIRVVTGLDGAGKTTI  
LFLKLQDEFMQPIPTIGFNVETVEYKNLFTIWDVGGKHKLRPLWKHYLNTQAVVFVVD  
SSHRDRISEAHSELAKLLTEKELRDALLIFANKQDVAGALSVEEITELLSLHKLC CGRS  
WYIQGCDARSGMGLYEGLDWLSRQLVAAGVLDVA

>sp|Q9BZY9|TRI31\_HUMAN E3 ubiquitin-protein ligase TRIM31 OS=Homo sapiens GN=TRIM31 PE=1  
SV=2

MASGQFVNKLQEEVICPICLDILQKPVTIDCGHNFCLKCITQIGETSCGFFKCPLCKTSV  
RKNAIRFNSLLRNLVEKIQALQASEVQSKRKEATCPRHQEMFHYFCEDDGKFLCFVCRES  
KDHKSHNVSLIEEAAQNYQGQIQEQIQLVQQKEKETVQVKAQGVHRVDVFTDQVEHEKQR  
ILTEFELLHQVLEEEKNFLLSRIYWLGHGTEAGKHVASTEPQLNDLKKLVDSLTKQN  
MPPRQLLEDIKVVLRCSEEFQFLNPTVPVPLELEKKLSEAKSRHDSITGSLKKFKDQLQAD  
RKKDENRFFKSMKNKNDMKS WGLLQKNNHKMNKTSEPGSSSAGRTTSGPPNHHSSAPSHS  
LFRASSAGKVTFPVCLASYDEISGQGASSQDTKTFDVALSEELHAALSEWLTAIRAWFC  
EVPSS

>sp|Q9UPQ4|TRI35\_HUMAN Tripartite motif-containing protein 35 OS=Homo sapiens GN=TRIM35  
PE=1 SV=2

MERSPDVSPGPSRSFKEELLCAVCYDPFRDAVTLRCGHNFCRGCVSRCEVQVSPTCPVC  
KDRASPADLRNHTLNNLVEKLLREEAEGARWTSYRFSRVCRLHRGQLSLFCLEDKELL  
CSCQADPRHQGHRVQPVKDTAHDFAKCRNMEHALREKAKAFWAMRRSYEAIKHNQVEA

AWLEGRIRQEFDKLREFLRVEEQAILDAMAEETRQKQLLADEKMKQLTEETEVLAEIER  
LQMEMKEDDVSFLMKHKSRRRLFCTMEPEPVQPGMLIDVCKYLGSLQYRVWKKMLASVE  
SVPFSFDPNTAAGWLSVSDDLTSVTNHGYRVQVENPERFSSAPCLLSRVFSQGSRAWEV  
ALGGLQSWRVGVVRVRQDSGAEGSHSCYHDTSGFWYVCRTQGVEGDHCVTSDPATSP  
VLAIPRRLRVELECEEGELSFYDAERHCHLYTFHARFGEVRPYFYLGGARGAGPPEPLRI  
CPLHISVKEELDG

>sp|Q6P9F5|TRI40\_HUMAN Tripartite motif-containing protein 40 OS=Homo sapiens GN=TRIM40  
PE=1 SV=3

MIPLQKDNQEEGVCPICQESLKEAVSTNCGHLFCRVCLTQHVEKASASGVFCCPLCRKPC  
SEEVLGTGYICPNHQKRVCRFCEESRLLCCECLVSPEHMSHHELTENALSHYKERLNR  
RSRKLKRDIAELQRLKAQQEKKLQALQFQVDHGNHRLAEPESQHQTREQLGALPQQWLG  
QLEHMPAAEARILDISRAVTQLRSLVIDLERTAKELDTNTLNAGDLLNRSAPQKLEVIY  
PQLEKGVSELLLPQPKL

>sp|Q9H8W5|TRI45\_HUMAN Tripartite motif-containing protein 45 OS=Homo sapiens GN=TRIM45  
PE=1 SV=2

MSENRKPLLGFVSKLTSGTALGNSGKTHCPLCLGLFKAPRLLPCLHTVCTTCLEQLEPFS  
VVDIRGGSDTSSEGSIFQELKPRSLQSQIGILCPVCAQVDLPMGGVKALTIDHLAVND  
VMLESLRGEGQLVCDLCNDREVEKRCQTCKANLCHFCCQAHRRQKKTTYHTMVDLKD  
GYSRIGKPIPCVHPAEELRLCFEFCDRPVCQDCVVGEHREHPCDFTSNVIHKHGD  
SVWELLKGTQPHVEALEEALAQIHIINSALQKRVEAADAADVTFSEGYIKAIEEHRD  
KLLKQLEDIRAQKENSLLQKQALEQLLADMRTGVEFTEHLLTSGSDLEILITKRVV  
VERLRKLNKVQYSTRPGVNDKIRFCPQEKAGQCRGYEITYGTINTKEVDPAKCVLQ  
GEDLHRAREKQTASF TLLCKDAAGEIMGRGGDNVQVAVVPKDKKDSPVRTMVQDNK  
DGTYYISYTPKEPGVYTVW VCIKEQHVGSPFTVMVRRKHRPHSGVFHCCTFCSSG  
GQKTARACGGTTPGGYLGCGHG HKGHPGHPHWSGCCGKFNEKSECTWTGGQSA  
PRSLRLTVAL

>sp|Q8IWZ4|TRI48\_HUMAN Tripartite motif-containing protein 48 OS=Homo sapiens GN=TRIM48  
PE=2 SV=2

MNSGISQVFQRELTCPICMNYFIDPVTIDCGHSFCRPCFYLNWQDIPILTQCFECIK  
TIQQRNLKTNIRLKKMASLARKASLWFLSSEEQMCGIHRETKMFCEVDRSLCLLCSS  
SQEHRYHRHCPAEWAEEHWEKLLKKMQSLWEKACENQRNLNVETTRISHWKAFGDIL  
YRSES VLLHMPQPLNLALRAGPITGLDRNLNQF

>sp|Q96A61|TRI52\_HUMAN Tripartite motif-containing protein 52 OS=Homo sapiens GN=TRIM52  
PE=1 SV=1

MAGYATTPSPMQLQEEAVCAICLDYFKDPVSISCGHNFCRGCVTQLWSKEDEEDQNE  
EEDWEEEEDEEAVGAMDGWDGSIREVLYRGNADLELFQDQDDDELWLGDSGITNWDN  
VDYMWDEEEEEEEEDQDYLGGLRPDLRIDVYREEEILEAYDEDEDEELYPDIHPPPS  
LPLPGQFTCPQCRKSFTRRSFRPNLQLANMVQIIIRQMCPTPYRGNSNDQGMCFKHQ  
EALKLFCV DKEAICVVCRESRSHKQHSVLPLEEVVQEYQEIKLETTLVGILQIEQES  
IHSKAYNQ

>sp|Q9BYV6|TRI55\_HUMAN Tripartite motif-containing protein 55 OS=Homo sapiens GN=TRIM55  
PE=1 SV=2

MSASLNYKSFSKEQQTMDNLEKQLICPICLEMFTKPVVILPCQHNLCRKCASDIFQAS  
NPYLPTRGTTMASGGRFCRPSRHEVVLDRHGVYGLQRNLLVENIIDIKQESTRPEKKS  
DQPMCEEHEERINIIYCLNCEVPTCSLCKVFGAHKDCQVAPLTHVFQRQKSELSDGIA  
ILVGSNDRVQGVISQLEDCTKTIECCRKQKQELCEKFDYLYGILEERKNEMTQVITRTQ  
EEK



LEHVRALIKKYS DHLENVSKLVESGIQFMDEPEMAVFLQNAKTLKKISEASKAFQMEKI  
EHGYENMNHFTVNLNREEKI IREIDFYREDEDEEEEEGGEGEKEGEVGGEAEEVEVE  
NVQTEFPGEDENPEKASELSQVELQAAPGALPVSSPEPPPALPPAADAPVTQGEVVP TGS  
EQTTESETPVPAAAETADPLFYPSWYKGQTRKATTNPPCTPGSEGLGQIGPPGSEDSNVR  
KAEVAAAAASERA AVSGKETSAPAATSQIGFEAPPLQGQAAAPASGSGADSEPARHIFSF  
SWLNSLNE

>sp|Q6AZZ1|TRI68\_HUMAN E3 ubiquitin-protein ligase TRIM68 OS=Homo sapiens GN=TRIM68 PE=1  
SV=1

MDPTALVEAIVEEVACPICMTFLREPMSIDCGHSFCHSCLSGLWEIPGESQNWGYTCPLC  
RAPVQPRNLRPNWQLANVVEKVRLLRLHPGMGLKGDLCERHGEKLMFKCEDVLMCEAC  
SQSPEHEAHSVPMEDVAWEYKWELEHLEHLKKEQEEAWKLEVGERKRTATWKIQVETR  
KQSIWVEFEKYQRLLEKKQPPHRQLGAEVAAALASLQREAAETMQKLELNHSEL IQQSQV  
LWRMIAELKERSQRPVRWMLQDIQEVNRSKSWSLQQPEPISLELKTDCRVLGLREILKT  
YAADVRLDPDTAYSRLIVSEDRKR VHYGDTNQKLPDNERFYRYNIVLGSQCISGRHYW  
EVEVGDRSEWGLGVCKQNVDRKEVVYLSPHYGFVWIRLRKGNEYRAGTDEYPILSLPVPP  
RRVGIFVDYEAHDISFYNVTD CGSHIFTFPRYPFPGRLLPYFSPCYSIGTNNTAPLAICS  
LDGED

>sp|Q86UV6|TRI74\_HUMAN Tripartite motif-containing protein 74 OS=Homo sapiens GN=TRIM74  
PE=1 SV=1

MAWQVSLELEDWLQCPICLEVFKESSLMLQCGHSYCKGCLVSLSYHLDTKVRCPMCWQV  
DGSSSLPNVSLAWVIEALRLPGDPEPKVCVHHRNPLSLFCEKDQELICGLGLLGSHQHH  
PVTVPSTVCSRMEELAALFSELKQEKKVDELI AKLVKNRTRIVNESDVFSWVIRREFQ  
ELRHPVDEEKARCLEGIGGHTRGLVASLDMQLEQAQGTRERLAQAECVLEQFGNEDHHEF  
IWKFHSMASR

>sp|043715|TRIA1\_HUMAN TP53-regulated inhibitor of apoptosis 1 OS=Homo sapiens GN=TRIA1  
PE=1 SV=1

MNSVGEACTDMKREYDQCFNRWFAEKFLKGDSSGDPCTDLFKRYQQCVQKAIKEKEIPIE  
GLEFMGHGKEKPENSS

>sp|075762|TRPA1\_HUMAN Transient receptor potential cation channel subfamily A member 1  
OS=Homo sapiens GN=TRPA1 PE=1 SV=3

MKRSLRKMWRPGEKKEPQGVVYEDVPDDTEDFKESLKVVFEQSAYGLQNFNKQKKLKRC  
DMDTFFLHYAAEGQIELMEKITRDSSEVLHEMDDYGNTPLHCAVEKNQIESVKFLLSR  
GANPNLRNFMMAPLHIAVQGMNNEVMKVLEHRTIDVNLEGENGTAVIIACTTNNSEA  
LQILLKKGAKPCKSNKWGCFPIHQAAFSGSKECMEIILRFGEHGYSRQLHINFMNNGKA  
TPLHLAVQNGDLEMIKMCLDNGAIDPVEKGRCTAIHFAATQGATEIVKLMISSYSGSVD  
IVNTTDGCHETMLHRASLFDHHELADYLISVGADINKIDSEGRSPLILATASASWNIVNL  
LLSKGAQVDIKDNFRNFLHLTVQQPYGLKNLRPEFMQMQQIKELVMDDEDNDGCTPLHYA  
CRQGGPGSVNNLLGFNVSIHSSKDKKSPLHFAASYGRINTCQRLLQDISDTRLLNEGDL  
HGMTPLHLAAKNHDKVVQLLLKKGALFLSDHNGWTALHASMGGYTQTMKVILDTNLKC  
TDRLDEGNTALHFAAREGHAKAVALLSHNADIVLNKQASFLHLALHNKRKEVLTII  
RSKRWDECLKIFSHNSPGNKCPITEMIEYLPECMKVLLDFCMLHSTEDKSCRDYIIEYNF  
KYLQCPLEFTKKTPTQDVIYEPLTALNAMVQNNRIELLNHPVCKEYLLMKWLAYGFRAHM  
MNLGSYCLGLIPMTILVNIKPGMAFNSTGIINETS DHSEILDTTNSYLIKTCMILVFLS  
SIFGYCKEAGQIFQQKRNYFMDISNVLEWIIYTTGIIFVLPLFVEIPAHLQWQCGAIAVY

FYWMNFLLYLQRFENGIFIVMLEVILKTLRSTVVFI FLLLA FGLSFYILLNLQDPFSS  
PLLSIIQTFSMMLGDINYRESFLEPYLRNELAHPVLSFAQLVSFTIFVPIVLMNLLIGLA  
VG DIAEVQKHASLKRIAMQVELHTSLEKKLPLWFLRKVDQKSTIVYPNKPRSGMFLHIF  
CFLFCTGEIRQEIPNADKSLEMEILKQKYRLKDLTFLLEKQHEL IKLI IQKMEI ISETED  
DDSHCSFQDRFKKEQMEQRNSRWNTVLRVAKAKTHHLEP

>sp|Q9UBN4|TRPC4\_HUMAN Short transient receptor potential channel 4 OS=Homo sapiens  
GN=TRPC4 PE=1 SV=1

MAQFY YKRVNAPYRDRIPLRIVRAESELSPSEKAYLNAVEKGDYASVKKSLEEAEIYFK  
ININCIDPLGRTALLIAIENENLELIELLLSFNVYVG DALLHAIRKEVVGAVELLNHHK  
PSGEKQVPPILLDKQFSEFTPDITPI ILAAHTN NYEIIKLLVQKGVSVPRPHEVRCNCVE  
CVSSSDVDSLRSRSLNIYKALASPSLIALSSEDPFLTAFQLSWELQELSKVENEFKSE  
YEELSRQCKQFAKDLLDQTRSSRELEIILN YRDDNSLIEEQSGNDLARKLAIKYRQKEF  
VAQPNCQQLLASRWYDEFPGWRRRHWA VKMVTCFIIGLLFPVFSVCYLIAPKSPLGLFIR  
KPFIKFICHTASYLTFLFLLLASQHIDRSDLN RQGPPPTIVEWMILPWVLGFIWGEIKQ  
MWDGGLQDYIHDWWNLMDFVMNSLYLATISLKIVAFVKYSALNPRESWDMWHPTLVAEAL  
FAIANIFSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFY  
YEETKGLTCKGIRCEKQNNAFSTLFETLQSLFWSIFGLINLYVTNVKAQHEFTEFVGATM  
FGTYNVISLVLLNMLIAMMNSYQLIADHADIEWK FARTKLWMSYFEEGGTLTPPFNVI  
PSPKSLWYLIKWIWTHLCKKKMRKPESFGTIGRRAADNLRRHHQYQEVMRNLVKRYVAA  
MIRDAKTEEGLTEENFKELKQDISSFRFEVLG LLRGSKLSTIQSANASKESSNSADSDEK  
SDSEGNSKDKKNFSLFDLTTLIHPRSAAIASERHNISNGSALVVQEPPREKQKRVNFVT  
DIKNFGLFHRRSKQNAAEQNANQIFSVSEEVARQQAAGPLERNIQLESRGLASRGDLSIP  
GLSEQCVLVDHRERNTDTLGLQVGKRVCPFKSEKVVVEDTVPIIPKEKHAKEDSSIDYD  
LNL PDTVTHE DYVTTRL

>sp|Q9UL62|TRPC5\_HUMAN Short transient receptor potential channel 5 OS=Homo sapiens  
GN=TRPC5 PE=1 SV=1

MAQLYYKKVNYSPYRDRIPLQIVRAETELSAEEKAF LNAVEKGDYATVKQALQEAEIYYN  
VNINCM DPLGRSALLIAIENENLEIMELLNHSVYVG DALLYAIRKEVVGAVELLNHSYR  
PSGEKQVPTLMDTQFSEFTPDITPIMLAAHTN NYEIIKLLVQKRVTI PRPHQIRCNCVE  
CVSSSEVDLSRHSRSLNIYKALASPSLIALSSEDPILTA FRLGWELKELSKVENEFKAE  
YEELSQQCKLFAKDLLDQARSSRELEIILNHRDDHSEELDPQKYHDLAKLKVAIKYHQKE  
FVAQPNCQQLLATLWYDGFPGWRRKHVVKLLTCMTIGFLFPMLSIAYLISPRSNLGLFI  
KKPFIKFICHTASYLTFLFMLLASQHIVRTDLHVQ GPPPTVVEWMILPWVLGFIWGEIK  
EMWDGGFTEYIHDWWNLMDFAMNSLYLATISLKIVAYVKYNGSRPREEWEMWHPTLIAEA  
LFAISNILSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYF  
YYETRAIDEPNNCKGIRCEKQNNAFSTLFETLQSLFWSVFGLLNLYVTNVKARHEFTEFV  
GATMFGTYNVISLVLLNMLIAMMNSYQLIADHADIEWK FARTKLWMSYFDEGGTLPPP  
FNIIPSPKSFLYLGNWFNNTFCPKRDPDGRRRRRNLRSFERNADSLIQNHQYQEVIRNL  
VKRYVAAMIRNSKTHEGLTEENFKELKQDISSFRYEVLDLLGNRKHPRSFSTSSTELSQR  
DDNNDGSGGARAKSKSVSFLNGCKKKKTCHGPPLIRTMPRSSGAQGKSKAESSSKRSFMGP  
SLKKLGLLFSKFNGHMSEPSSEPMTTISDGIVQQHCMWQDIRYSQMEKGKAEACSQSEIN  
LSEVELGEVQGAQSSSECLACSSSLHCASSICSSNSKLLDSSSEDFETWGEACDLLMHK  
WGDGQEEQVTTRL

>sp|Q9Y210|TRPC6\_HUMAN Short transient receptor potential channel 6 OS=Homo sapiens  
GN=TRPC6 PE=1 SV=1

MSQSPAFGPRRGSSPRGAAGAAARRNESQDYLLMDELGEDGCPQAPLPCYGYPCFRGS  
DNRLAHRRTVLREKGRRLANRGPAYMFSRSTSLSEEEERFLDAAEYGNIPVVRKMLEE  
CHSLNVCVDYMGQNALQLAVANEHLEITELLKKENLSRVGDALLAISKGYVRIVEAI  
LSHPAFAEGKRLATSPSQSELQQDDFYAYDEGTRFSDVTPIIILAAHCQEYEVHTLLR  
KGARIERPHDYFCKCNDNCNQKQHDSFSHSRINAYKGLASPAYLSLSEDPVMTALEL  
SNELAVLANIEKEFKNDYKKLSMCKDFVVGLLDLCRNTEEEVAILNGDVETLQSGDHGR  
PNLSRLKLAIKYEVKKFVAHPNCQQQLLSIWYENLSGLRQQTMVAVKFLVVLAVAIGLPFL  
ALIYWFAPCSKMGKIMRGPFMKFVAHAASFTIFLGLVMNAADRFEGTKLLPNETSTDNA  
KQLFRMKTSCFSWMEMLIISWVIGMIWAECKEITWQGPKEYLFELWNMLDFGMLAIFAAS  
FIARFMAFWHASKAQSIIDANDTLKDLTKVTLGDNVYYNLAIRIKWDPSPDQIIISEGLYA  
IAVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVIFIMVFVAFMIGMFNLYSYYI  
GAKQNEAFTTVEESFKTLFWAIFGLSEVKSVVINYNHKFIENIGVLYGVYNTVMIVLL  
NMLIAMINSSFQEI EDDADVEWKFAKALWFSYFEEGRTPVPFNLVSPKSLFYLLKL  
KKWISSELFQGHKKGFQEDAEMNKINEEKKLGILGSHEDLSKLSLDKKQVGHNKQPSIRSS  
EDFHLNSFNPPRQYQKIMKRLIKRYVLQAQIDKESDEVNEGELKEIKQDISSLRYELLE  
EKSQNTEDLAELIRELGEKLSMEPNQEETNR

>sp|Q86TN4|TRPT1\_HUMAN tRNA 2'-phosphotransferase 1 OS=Homo sapiens GN=TRPT1 PE=1 SV=2

MNFSGGGRQEAAGSRGRRAPRPREQDRDVLKSKALSYALRHGALKLGLPMGADGFVPLGT  
LLQLPQFRGSAEDVQRVVDNRKQRFALQLGDPSTGLLIRANQGHSLQVPKLELMPLET  
PQALPPMLVHGTFWKHWPSILLKGLSCQGRTHIHLAPGLPGDPGIISGMRSHCEIAVFID  
GPLALADGIPFRSANGVILTPGNTDGFLPKYFKEALQLRPTRKPLSLAGDEETECQSS  
PKHSSRERRRIQQ

>sp|Q9Y606|TRUA\_HUMAN tRNA pseudouridine synthase A, mitochondrial OS=Homo sapiens  
GN=PUS1 PE=1 SV=3

MGLQLRALLGAFGRWTLRLGPRPSCSPRMAGNAEPPAAGACPQDRRSCSGRAGGDRVWE  
DGEHPAKKLKSGGDEERREKPPKRKIVLLMAYSGKGYHGMQRNVGSSQFKTIEDDLVSAL  
VRSGCIPENHGDMRKMSFQRCARTDKGVSAAGQVVS�KVLIDDILEKINSHLPSHIRI  
LGLKRVTTGGFNSKNRCDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLACYK  
GTHNFHNTSQKGPQDSACRYILEMYCEEPFVREGLEFAVIRVKGQSFMMHQIRKMVGL  
VVAIVKGYAPESVLSRWGTEKVDVPKAPGLGLVLERVHFEKYNQRFNGDGLHEPLDWAQ  
EEGKVAAFKEEHIYPTIIGTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGS  
EGDGD TD

>sp|Q96A04|TSACC\_HUMAN TSSK6-activating co-chaperone protein OS=Homo sapiens GN=TSACC  
PE=1 SV=1

MERHTSHPNRKVPAKEEANAVPLCRAKPSPSYINLQASSPPATFLNIQTTLPSVDHKPK  
ECLGLECMYANLQLQTQLAQQQMAVLEHLQASVTQLAPGRGSNNSSLPALSPNPLLNL  
PQFSK

>sp|P01222|TSHB\_HUMAN Thyrotropin subunit beta OS=Homo sapiens GN=TSHB PE=1 SV=2

MTALFLMSMLFGLTCGQAMSFCIPTEYTMHIERRECAVCLTINTTICAGYCMTRDINGKL  
FLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKNTDYSDCIHEAI  
KTNCTKPQKSYLVGFSV

>sp|P16473|TSHR\_HUMAN Thyrotropin receptor OS=Homo sapiens GN=TSHR PE=1 SV=2

MRPADLLQLVLLLDLPRDLGGMGCSSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLI  
ETHLRTIPSHAFSNLPNISRIYVSIDVTLQQLESHSFYNLSKVTHIEIRNTRNLTYIDPD  
ALKELPLLKFLGIFNTGLKMFDPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETL  
TLKLYNNGFTSVQGYAFNGTKLDAVYLNKNKYLTVIDKDAFGGVYSGPSLLDVQSQTSVTA  
LPSKGLEHLKELIARNTWTLKKLPLSLSFLHLTRADLSYP SHCCAFKNQKKIRGILES LM  
CNESSMQSLRQRKSVNALNSPLHQEYEENLGDSIVGYKEKSKFQDTHNNAHYVVFEEQE  
DEIIGFGQELKNPQEETLQAFDSDHYDTICGDESDMVCTPKSDEFNPCEDIMGYKFLRIV  
VWFVSLALLGNVFLILLTSHYKLVNPRFLMCNLAFADFCMGMYLLLIASVDLYTHSE  
YYNHAIDWQTGPGCNTAGFFT VFASELSVYTLTVITLERWYAITFAMRLDRKIRLRHACA  
IMVGGWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYIVFVLTNLIVAFVIVCCC  
YVKIYITVRNPQYNPGDKDTKIAKRAVLIFTDFICMAPISFYALSAILNKPLITVSNSK  
ILLVLFYPLNSCANPFLYAIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQ  
VQKVTHDMRQGLHNMEDVYELIENSHLTPKKQGQISEEYMQTVL

>sp|A1L157|TSN11\_HUMAN Tetraspanin-11 OS=Homo sapiens GN=TSPAN11 PE=2 SV=2  
MAHYKTEQDDWLI IYLYLLFVFNFFFWVGGA AVLAVGIWTLVEKSGYLSVLASSTFAAS  
AYILIFAGVLVMVTGFLGFGAILWERKGCLSTYFCLLLVIFLVELVAGVLAHVYYQRLSD  
ELKQHLNRTLAENYGQPGATQITASVDRLQQDFKCCGSNSSADWQHSTYILLREAEGRQV  
PDSCCKTVVVRGQRAHPSNIYKVEGGCLTKLEQFLADHLLLMGAVGIGVACLQICGMVL  
TCCLHQRLQRHFY

>sp|Q96QS1|TSN32\_HUMAN Tetraspanin-32 OS=Homo sapiens GN=TSPAN32 PE=2 SV=1  
MGPSRVRVAKCQMLVTCFFILLGLSVATMVTLT YFGAHFAVIRRASLEKNPYQAVHQW  
AFSAGLSLVGLLTLGAVLSAAATVREAQGLMAGGFLCFSLAFC AQVQVFWRLHSPTQVE  
DAMLDYDLYVEQAMKGTSHVRRQELAAIQDVFLCCGKSPFSRLGSTEADLCQGEEAAR  
EDCLQGIRSF LRTHQQVASSLTSIGLALTVSALLFSSFLWFAIRCGCSLDRKGKYTLTPR  
ACGRQPQEPSLLRCSQGPTHCLHSEAVAIGPRGCSGSLRWLQESDAAPLPLSCHLAAHR  
ALQGRSRGGLSGC PERGLSD

>sp|O14817|TSN4\_HUMAN Tetraspanin-4 OS=Homo sapiens GN=TSPAN4 PE=1 SV=1  
MARACLQAVKYLMAFNLLFWLGGCVLGVGIWLAATQGSFATLSSSFPSLSAANLLIIT  
GAFVMAIGFVGCLGAIKENKCLLLTFFLLLLLVFLEATIAILFFAYTDKIDRYAQQDLK  
KGLHLYGTQGNVGLTNAWSIIQTDFRCCGVSNYTDWFEVYNATRVPDSCCLEFSESCGLH  
APGTWWKAPCYETVKVWLQENLLAVGIFGLCTALVQILGLTFAMTMYCQVVKADTYCA

>sp|P62079|TSN5\_HUMAN Tetraspanin-5 OS=Homo sapiens GN=TSPAN5 PE=1 SV=1  
MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGVL SNISSITDLGGFD  
PVWLFVLVVGVMFILGFAGCIGALRENTFLLKFFSVFLGIIFFELETAGVLA FVKDWIK  
DQLYFFINNNIRAYRDDIDLQNLIDFTQEYWQCCGAFGADDWNLNIYFNCTDSNASRERC  
GVPFSCCTKDP AEDVINTQCGYDARQKPEVDQQIVIIYTKGCV PQFEKWLQDNLTIVAGIF  
IGIALQIFGICLAQNLVSDIEAVRASW

>sp|P41732|TSN7\_HUMAN Tetraspanin-7 OS=Homo sapiens GN=TSPAN7 PE=1 SV=2  
MASRRMETKPVITCLKTLIIYSFVFWITGVILLAVGVWGLTLGTYISLIAENSTNAPY  
VLIGTGTTIVVFGFGCFATCRGSPWMLKLYAMFLSLVFLAELVAGISGFVFRHEIKDTF  
LRTYTDAMQTYNGNDERSRAVDHVQRSLSCCGVQNYTNWSTSPYFLEHGIPPSCCMNETD  
CNPQDLHNLTV AATKVNQKGCYDLVTSFMETNMGI IAGVAFGIAFSQLIGMLLACCLSRF  
ITANQYEMV

>sp|H0UI37|TSTD3\_HUMAN Thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 3 OS=Homo sapiens GN=TSTD3 PE=3 SV=1

MKIEKCGWSEGLTSIKGNCHNFYTAISKDVTYKELKNLLNSKNIMLIDVREIWEILEYQK  
IPESINVPLDEVGEALQMNPRDFKEKYNEVKPSKSDS

>sp|Q8NDW8|TT21A\_HUMAN Tetratricopeptide repeat protein 21A OS=Homo sapiens GN=TTC21A PE=2 SV=3

MSSNDSSLMAGIIYYSQEKYFHHVQQAQAAVGLKFSNDPVLKFFKAYGVLKEEHIQDAIS  
DLESIRHHPDVSLCSTMALYAHKRCEIIDREAIQELEYSLKEIRKTVSGTALYYAGLFL  
WLIGRHDKAKEYIDRMLKISRGFREAYVLRGWVDLTSDKPHTAKKAIEYLEQGIQDTKDV  
LGLMGKAMYFMMQQNYSEALEVVNQITVTSQSFLPALVLKMQFLARQDWEQTVEMGHRI  
LEKDESNIACQILTVHELAREGNMTTVSSSLKTQKATNHVRNLKALETREPENPSLHLK  
KIIVSRLCGSHQVILGLVCSFIERTFMATPSYVHVATELGYLFIKNQVKEALLWYSEA  
MKLKDGDGMAGLTGIIILCHILEGHLEEAERYLEFLKEVQKSLGKSEVLIFLQALLMSRKHK  
GEEETALLKEAVELHFSSMQIPLGSEYFEKLDPYFLVLCIAKEYLLFCPKQPRLPQGIV  
SPLLKQVAVILNPVKAAPALIDPLYLMAQVRYSELENAQSILQRCELDPASVDAHLL  
MCQIYLAQGNFGMCFHCLELGVSHNFQVRDHPLYHLIKARALNKAGDYPEAIKTLKMKVIK  
LPALKKEEGRKFLRPSVQPSQRASILLELVEALRLNGELHEATKVMQDTINEFGGTPEEN  
RITIANVDLVLKGNVDVALNMLRNILPKQSCYMEAREKMANIYLQTLRDRRLYIRCYRE  
LCEHLPGPHTSLLLGDALMSILEPEKALEVYDEAYRQNPHDASLASRIGHAYVKAHQYTE  
AIEYYEAAQKINGQDFLCDDLGLKLLKLKVNKAQKVLKQALEHDIVQDIPSMNDVKCL  
LLLAKVYKSHKKEAVIETLNKALDLQSRILKRVPLEQPEMIPSKQLAASICIQFAEHYL  
AEKEYDKAVQSYKDVFSYLPDNDKVMLELAQLYLLQGHLDLCEQHCAILLQTEQNHETAS  
VLMADLMFRKQKHEAAINLYHQVLEKAPDNFLVLHKLIDLLRRSGKLEDIPAFFELAKKV  
SSRVPLEPGFNYCRGIYCWHLGQPNKFLNKARKDSTWGQSAIYHMQICLNPDNEVV  
GGEAFENQGAESNYMEKKELEQGVSTAELKLLREFYPHSDSSQTQLRLLQGLCRLATREK  
ANMEAAALGSFIQIAQAEKDSVPALLALAAQYVFLKQIPKARMQLKRLAKTPWVLSEAEDL  
EKSWLLADIYCQGSKFDLALELLRRVCYQNKSCYKAYEYMGFIMEKEQSYKDAVTNYKL  
AWKYSHHANPAIGFKLAFNYLKDKKFVEAIEICNDVLEHPDYPKIREEILEKARRSLRP

>sp|Q5I0X7|TTC32\_HUMAN Tetratricopeptide repeat protein 32 OS=Homo sapiens GN=TTC32 PE=1 SV=1

MEGQRQESHATLTLAQAHFNNGEYAEAEALYSAYIRRCACAASSDESPGSKCSPEDLATA  
YNNRGQIKYFRVDFYEAMDDYSAIEVQPNFEVPYYNRGLILYRLGYFDDALEDFFKKVLD  
LNPGFQDATLSLKQTILDKEEKQRRNVAKNY

>sp|Q15361|TTF1\_HUMAN Transcription termination factor 1 OS=Homo sapiens GN=TTF1 PE=1 SV=3

MEGESSRFEIHTPVSDKKKKKCSIHKERPQKHSHEIFRDSSLVNEQSQITRRKKRKKDFQ  
HLISSPLKKSRIKDETANATSTLKKRKKRRYSALEVDEEAGVTVVLVDKENINNTPKHFR  
KDVDVVCVDMSEIQLPRPKPTDKFQVLAKSHAHKSEALHSKVREKKNKKHQRKAASWES  
QRARDTLPQSESHQESWLSVGPGEITELPASAHKNKSKKKKKSSNREYETLAMPEGS  
QAGREAGTDMQESQPTVGLDDETPQLLGPTHKKKSKKKKKKSNHQEFELAMPEGSQVG  
SEVGADMQESRPAVGLHGETAGIPAPAYKNKSKKKKKKSNHQEFVAMPESLESAYPEG  
SQVGSEVGTVEGSTALKGFKESNSTKKKSKKRKLTSVKRARVSGDDFSVPSKNSESTLFD  
SVEGDGAMMEGVKSRPRQKKTQACLASKHVQEAPRLEPANEEHNVETAEDSEIRYLSAD  
SGDADDSDADLGSVAVKQLQEFIPNIKDRATSTIKRMYRDDLERFKEFKAQGVAIKFGKFS

VKENKQLEKNVEDFLALTGIESADKLLYTDRYPEEKSVITNLKRRYSFRLHIGRNIARPW  
KLIYYRAKKMFDVNNYKGRYSEGDTEKLKMYHSLLGNDWKTIGEMVARSSLSVALKFSQI  
SSQRNRGAWSKETRKLIKAVEEVILKKMSPQELKEVDSKLQENPESCLSIVREKLYKGI  
SWVEVEAKVQTRNWMQCKSKWTEILTKRMTNGRRIYYGMNALRAKVSlierlyeINVEDT  
NEIDWEDLASAIGDVPPSYVQTKFSRLKAVYVPFWQKKTPEIIDYLYETTLPllKEKLE  
KMMEKKGTkiQTPAAPKQVFPFRDIFYEDDSEGEDIEKESEGQAPCMAHACNSSTLGGQ  
GRWII

>sp|043156|TTI1\_HUMAN TEL02-interacting protein 1 homolog OS=Homo sapiens GN=TTI1 PE=1  
SV=3

MAVFDTPEEAFGVLRPVCVQLTKTQTVENVEHLQTRLQAVSDSALQELQQYILFPLRFTL  
KTPGPKRERLIQSVECLTFVLSSTCVKEQELLQELFSELSACLYSPSSQKPAAVSEELK  
LAVIQGLSTLMHSAYGDIILTFYEPSILPRLGFAVSLLLGLAEQEKSKQIKIAALKCLQV  
LLLQCDCQDHPRLDELEQKQLGDLFASFLPGISTALTRLITGDFKQHSIVVSSLKIFY  
KTVSFIMADEQLKRISKVQAKPAVEHRVAELMVYREADWVKKTGDKLTILIKKIIIECVSV  
HPHWKVRLELVELVEDLLLKCSQSLVECAGPLLKALVGLVNDESPEIQAQCNKVLRFAD  
QKVVGNGKALADILSESLHSLATSLPRLMNSQDDQGKFSTLSLLLGYLKLLGPKINFVLN  
SVAHLQRLSKALIQVLELDVADIKIVEERRWNSDDLNASPKTSATQPWNRIQRRYFRFFT  
DERIFMLLRQVCQLLGYYGNYLLVDHFMELYHQSVVYRKQAAMILNELVTGAAGLEVED  
LHEKHIKTNPPELREIVTSILEEYTSQENWYLVTCLETEEMGEELMMEHPGLQAITSGEH  
TCQVTSFLAFSKPSPTICSMNSNIWQICIQLEGIGQFAYALGKDFCLLLMSALYPVLEKA  
GDQTLILISQVATSTMMDVCRACGYDSLQHLINQNSDYLNGISLNLRLALHPHTPKVLE  
VMLRNSDANLLPLVADVVDVLDATLDQFYDKRAASFVSVLHALMAALAQWFPDTGNLGH  
QEQSLGEEGSHLNQRPAALEKSTTTAEDIEQFLLNYLKEKDVADGNVSDFDNEEEEQSVP  
PKVDENDTRPDVEPPLPLQIQIAMDMERCihLLSDKNLQIRLKVLDVLDLCVVVLQSHK  
NQLPLAHQAWPSLVHRLTRDAPLAVLRAFVKVRLTLGSKCGDFLRSRCKDVLPLAGSL  
VTQAPISARAGPVYSHTLAFKLQLAVLQGLGPLCERLDLGEGLNKNVADACLIYLSVKQP  
VKLQEAARSVFLHLMKVDPDSTWFLNELYCPVQFTPPHPSLHPVQLHGASGQQNPYTTN  
VLQLLKELQ

>sp|Q8NHH1|TTL11\_HUMAN Tubulin polyglutamylase TTL11 OS=Homo sapiens GN=TTL11 PE=1 SV=2

MAAAASVTGRVTWAASPMRSLGLGRRSLPGPRLDAVTA AVNPSLSDHGNGLGRGTRGSG  
CSGGSVLADWGGGAAAAAVALALAPALSTMRRGSSESELAARWEAEAVAAAAKAAKAEA  
EATAETVAEQVRVDAGAAGEPECKAGEEQPKVLAPAPAQPSAAEEGNTQVLQRPPPTLPP  
SKPKPVQGLCPHGKPRDKGRSCKRSSGHGSGENGSRPVTVDSSKARTSLDALKISIRQL  
KWKEFPFGRRLLPCDIYWHGVSFHDNDIFSGQVKNKFGMTEMVRKITLSRAVRTMQNLFPE  
EYNFYPRSWILPDEFQLFVAQVMVKDDPSWKPTFIVKPDGGCQGDGIYLIKDPSDIRL  
AGTLQSRPAVVQEYICKPLLIDKLKFDIRLYVLLKSLDPLEIYIAKDGLSRFCTEPYQEP  
TPKNLHRIFMHLTNYSLNHSGNFIHSDSASTGSKRTFSSILCRLSSKGVDIKKVVSDII  
SVVIKTVIALTPELKVIFYQSDIPTGRPGPTCFQILGFDILLMKNLKPILLEVNANPSMRI  
EHEHELSPGVFENVPSLVDEEVKVAVIRDTLRLMDPLKKKRENQSQQLEKPFAGKEDALD  
GELTSAPDCNANPEAHLPSICLKQVFPKYAKQFNYLRLVDRMANLFI RFLGIKGTMKLGP  
TGFRTFIRSKLSSSSLSMAAVDILYIDITRRWNSMTLDQRDSGMCLQAFVEAFFFLAQR  
KFKMLPLHEQVASLIDLCEYHLSLLDEKRLVCGRGVPSGGRPPHGRPPQEPSPSAQPADG  
NPPPTSCANKLSHPRHLS

>sp|A6NNM8|TTL13\_HUMAN Tubulin polyglutamylase TTL13P OS=Homo sapiens GN=TTL13P PE=1 SV=2

MEPSTCRMESEEDYVEEKESEKCVKEGVTNPSNSSQQALLKADYKALKNGVPSPIMATK  
IPKKVIAPVDTGDLEAGRRKRKRSLAINLTNCKYESVRRAAQMCGLKEVGEDEEWTL  
YWTDCAVSLERVMDMKRFQKINHFPGMTEICRKDLLARNLNRMKLYPSEYNIFPRTWCL  
PADYGDFQSYGRQRKARTYICKPDSGCQGRGIFITRNPREIKPGEHMICQQYISKPLID  
GFKFDMRVYVLTISCDPLRIFTYEEGLARFATTPYMEPSHNLDNVCMLTNYAINKHNE  
NFVRDGAVGSKRKLSTLNIWLQEHSYNPGELWGDIEDIIKTIIISAHSVLRHNYRTCFPQ  
YLNGGTCACFEILGFDILLDHKLKPWLLEVNHSPSFTTDSCLDQEVKDALLCDAMTLVNL  
RGCDKRKVMEEDEKRRVKERLFQCYRQPRESRKEKTESSHVAMLDQERYEDSHLGKYRRIY  
PGPDTEKYARFFKHNGSLFQETAASKAREECARQQLEEIRLKQEQQETSGTKRQKARDQN  
QGESAGEKSRPRAGLQSLSTHLAYNRNRNWEKELLPGQLDMRPQEIVEEEELERMKALLQ  
RETLIRSLGIVEQLTRLQHGPQGQKKLHESRDRLGSQELKSMSLVLLVLLRGAATEQGA  
PHFLHPVLPHEIPRILGALPSMNAAIHVPRYHLQPKNFNWTGEPAAINSCSLSMKKAG  
RCYFSSARIRLTSQQQASRRLEAINRVLAGSVPTLTPKQGYFLQPERVASDSWTECTLP  
SMVNSEHRAAKVPLCPASAPMLQRSRALLNINQFR

>sp|Q9H497|TOR3A\_HUMAN Torsin-3A OS=Homo sapiens GN=TOR3A PE=1 SV=1

MLRGPWRQLWLFFLLLLPGAPEPRGASRPWEGTDEPGSAWAWPGFQRLQEQLRAAGALSK  
RYWTLFSCQVWPDDCEDEEAATGPLGWRLPLLGGRYLDLLTTWYCSFKDCCPRGDCRIS  
NNFTGLEWDLNVRHLHGQHLVQQVLVLRTVRGYLETPQPEKALALSFHGWSGTGKNFVARML  
VENLYRDGLMSDCVRMFIATFHFHPKYVDLYKEQLMSQIRETQQQLCHQTLFIFDEAEKL  
HPGLLEVLGPHLERRAPEGHRAESPWTIFLFLSNLRGDIINEVVLKLLKAGWSREEITME  
HLEPHLQAEIVETIDNGFGHSRLVKENLIDYFIPFLPLEYRHVRLCARDAFLSQELLYKE  
ETLDEIAQMMVYVPKEEQLFSSQGCKSISQRINYFLS

>sp|094900|TOX\_HUMAN Thymocyte selection-associated high mobility group box protein TOX  
OS=Homo sapiens GN=TOX PE=2 SV=3

MDVRFYPPPAQPAAAPDAPCLGPSCLDPYYCNKFDGENMYMSMTEPSQDYVPASQSYPG  
PSLESEDFNIPPITPPSLPDHSLVHLNEVESGYHSLCHPMNHGLLPFHPQNMDLPEITV  
SNMLGQDGTLLSNSISVMPDIRNPEGTQYSSHPQMAAMRPRGQPADIRQQPGMMPHGQLT  
TINQSQLSAQLGLNMGGSNVPHNSPSPGSKSATPSPSSSVHEDEGDDTSKINGGEKRPA  
SDMGKKPKTPKKKKKDPNEPQKPVSAALFFRDTQAAIKGQNPATFGEVSKIVASMWD  
GLGEEQKQVYKKKTEAAKKEYLKQLAAYRASLVSKSYSEPVDVKTSQPPQLINSKPSVFH  
GPSQAHSALYLSSHVHQPGMNPHLTAMHPSLPRNIAPKPNNQMPVTVSIANMAVSPPPP  
LQISPPPLHQHLNMQQHQPLTMQQPLGNQLPMQVQSALHSPTMQQGFTLQPDYQTIINPTS  
TAAQVVTQAMEYVRSRCRNPPQPVDWNNDYCSSGGMQRDKALYLT

>sp|Q8WVP5|TP8L1\_HUMAN Tumor necrosis factor alpha-induced protein 8-like protein 1  
OS=Homo sapiens GN=TNFAIP8L1 PE=1 SV=2

MDTFSTKSLALQAQKKLLSKMASKAVVAVLVDDTSSEVLDELYRATREFTRSRKEAQKML  
KNLVKVALKLGLLLRGDQLGGEELALLRRFRHRARCLAMTAVSFHQVDFTFDRRVLAAGL  
LECRDLLHQAVGPHLTAKSHGRINHVFHGLADCDFLAALYGPAEPYRSHLRRICEGLGRM  
LDEGSL

>sp|Q9ULQ1|TPC1\_HUMAN Two pore calcium channel protein 1 OS=Homo sapiens GN=TPCN1 PE=1 SV=3

MAVSLDDDVPLILTLDEGGSAPLAPSNGLGQEELPSKNNGGSYAIHDSQAPSLSSGGESSP

SSPAHNWEMNYQEAAIYLQEGENNDKFFTHPKDAKALAAYLFAHNHLFYLMELATALLLL  
LLSLCEAPAVPALRLGIYVHATLELFALMVVVFELCMKLRWLGHTFIRHKRTMVKTSVL  
VVQFVEAIVVLVRQMSHVRVTRALRCIFLVDCRYCGGVRRLRQIFQSLPPFMDIILLLL  
FFMIIFAILGFYLFSPNPSDPYFSTLENSIVSLFVLLTTANFPDVMMPYSRNPWSCVFF  
IVYLSIELYFIMNLLAVVFDTFNDIEKRKFKSLLHKRTAIQHAYRLNISQRRPAGISY  
RQFEGLMRFYKPRMSARERYLTFKALNQNNTPLLSLKDFYDIYEVAALKWKAKKNREHWF  
DELPRTALLIFKGINILVKSFAFYFMYLVVAVNGVWILVETFMLKGGNFFSKHVPWSYL  
VFLTIIYGVELFLKVAGLGPVEYLSSGWNLFDFSVTVFAFLGLLALALNMEPFYFIVVLRP  
LQLRLFLKFKERYRNVLDTMFELLPRMASLGLTLLIFYYSFAIVGMEFFCGIVFPNCCNT  
STVADAYRWRNHTVGNRTVVEEGYYLNNFDNILNSFVTLFELTVNNWYIIMEGVTSQT  
SHWSRLYFMTFYIVTMVMTIIIVAFILEAFVFRMNYSRKNQDSEVDGGITLEKEISKEEL  
VAVLELYREARGASSDVTRLLETLSQMERYQQHSMVFLGRRSRTKSDLSLKMYQEEIQEW  
YEEHAREQEQQRLSSSAAPAAQPPGSRQRSQTVT

>sp|Q9HC21|TPC\_HUMAN Mitochondrial thiamine pyrophosphate carrier OS=Homo sapiens  
GN=SLC25A19 PE=1 SV=1

MVGYPKPDGRNNTKFQVAVAGSVSLVTRALISFPDVIKIRFQLQHERLSRSDPSAKYH  
GILQASRQILQEEGPTAFWKGHVPAQILSIGYGAQFLSFEMLTENVHRGSVDAREFSV  
HFVCGGLAACMATLVHPVDVLRTRFAAQGEPKVYNTLRHAVGTMYRSEGPQVFYKGLAP  
TLIAIFPYAGLQFSCYSSLKHLKYWAIPAEGKKNNENLNLLCGSGAGVISKTLTYPLDLF  
KKRLQVGGFEHARAAFGQVRRYKGLMDCAKQVLQKEGALGFFKGLSPSLLKAALSTGFMF  
FSYEFFCNVFHCMNRTASQR

>sp|O43399|TPD54\_HUMAN Tumor protein D54 OS=Homo sapiens GN=TPD52L2 PE=1 SV=2

MDSAGQDINLNSPNKGLSDSMTDVPVDTGVAARTPAVEGLTEAEEEEELRAELTKVEEEI  
VTLRQVLAAKERHCGELKRRLGLSTLGELKQNLRSWHDVQVSSAYVKTSEKLGEWNEKV  
TQSDLYKKTQETLSQAGQKTSAAALSTVGSASIRKLGDNRNSATFKSFEDRVGTIKSKVVG  
DRENGSDNLPSSAGSGDKPLSDPAPF

>sp|Q8IWU9|TPH2\_HUMAN Tryptophan 5-hydroxylase 2 OS=Homo sapiens GN=TPH2 PE=1 SV=1

MQPAMMMFSSKYWARRGFSLDSAVPEEHQLLGSSTLNKPNSGKNDDKGNKGSSKREAAATE  
SGKTAVVFSLKNEVGGLVKALRLFQEKRVNMVHIESRKSRRRSSEVEIFVDCECGKTEFN  
ELIQLLKQTTIVTLNPPENIWTEEELEDVPWFPRKISELDKCSHRVLMYGSELDADHP  
GFKDNVYRQRKYFVDVAMGYKYGQPIPRVEYTEEETKTWGVVFRELSKLYPTHACREYL  
KNFPLLTGYCYREDNVPQLEDVSMFLKERSGFTVRPVAGYLSRDFLAGLAYRVFHCTQ  
YIRHGSPLYTPEPDTCHELLGHVPLADPKFAQFSQEI GLASLGASDEDVQKLATCYFF  
TIEFGLCKQEGQLRAYGAGLLSSIGELKHALSDKACVKAQDPKTTCLQECLITTFQEAYF  
VSESFEEAKEKMRDFAKSITRPFVVFNPYTQSIILKDTRSIENVVQDLRSDLNTVCDA  
LNKMNQYLG I

>sp|P29144|TPP2\_HUMAN Tripeptidyl-peptidase 2 OS=Homo sapiens GN=TPP2 PE=1 SV=4

MATAATEEPFPFHGLLPKKETGAASFLCRYPEYDGRGVLI AVLDTGVDPGAPGMQVTTDG  
KPKIVDII DTTGSGDVNTATEVEPKDGEIVGLSGRVLKIPASWTNPSGKYHIGIKNGYDF  
YPKALKERIQKERKEKIWDVPVHRVALAEACRKQEEFDVANNGSSQANKLIKEELQSQVEL  
LNSFEKKYSDPGPVYDCLVWHGDEVWRACIDSNEGDLSKSTVLRNYKEAQEYGSFGTAE  
MLNYSVNIYDDGNLLSIVTSGGAHGTHVASIAAGHFPEEPERNGVAPGAQILSIKIGDTR  
LSTMETGTGLIRAMIEVINHKCDLVNYSYGEATHWPNSGRICEVINEAVWKHNIIVVSSA  
GNNGPCLSTVGCPCGGTTSSVIGVAYVSPDMMVAEYSLREKL PANQYTWSSRGPSADGAL



GVSISAPGGAIASVPNWTLRGTQLMNGTSMSSPNACGGIALILSGLKANNIDYTVHSVRR  
ALENTAVKADNIEVFAQGHGIIQVDKAYDYLVQNTSFANKLGFTVTVGNNGIYLRDPVQ  
VAAPSDHGVGIEPVFPENTENSEKISLQLHLALTSNSSWVCPSHLELMNQCRHINIRVD  
PRGLREGLHYTEVCGYDIASPNAGPLFRVPITAVIAAKVNESSHYDLAFTDVHFKPGQIR  
RHFIEVPEGATWAEVTVCSSESSEVS AKFVLHAVQLVKQRAYRSHEFYKFCSLPEKGTLTE  
AFPVLGGKAIEFCIARWWASLSDVNIDYTI SFHGIVCTAPQLNIHASEGINRFDVQSSLK  
YEDLAPCITLKNWVQTLRPVSAKTKPLGSRDVLNNRQLYEMVLTYNFHHQPKSGEVTSC  
PLLCELLYESEFDSQLWIIFDQNKRMGSGDAYPHQYSLKLEKGDYTI RLQIRHEQISDL  
ERLKDLPFIVSHRLSNTLSLDIHENHSFALLGKKKSSNLTLPKYNQPFVTSLPDDKIP  
KGAGPGCYLAGSLTSLKTELKKADVIPVHYLIPPTTKNGSKDKEKDSEKEKDLKEE  
FTEALRDLKIQWMTKLDSSDIYNELKETYPNYLPLYVARLHQLDAEKERMKRLNEIVDAA  
NAVISHIDQTALAVYIAMKTDPRPDAATIKNDMDKQKSTLVDALCRKGCALADHLLHTQA  
QDGAISTDAEGKEEEGESPLDSLAEFTWETTKWTDLFDNKVLTFAVKHALVNKMYGRGLK  
FATKLVEEKPTKENWKNCIQLMKLLGWTHCASFTENWLPIMYPPDYCVF

>sp|043617|TPPC3\_HUMAN Trafficking protein particle complex subunit 3 OS=Homo sapiens  
GN=TRAPPC3 PE=1 SV=1

MSRQANRGTESKKMSSELTLYTALVTQLCKDYENDEDVNKQLDKMGFNIGVRLIEDFL  
ARSNVGRCHDFRETADVIAKVAFKMYLGITPSITNWSPAGDEFSLILENNPLVDFVELPD  
NHSSLIYSNLLCGVLRGALEMVQMAVEAKFVQDTLKG DGVT EIRMR FIRRIEDNLPAGEE

>sp|Q9Y2L5|TPPC8\_HUMAN Trafficking protein particle complex subunit 8 OS=Homo sapiens  
GN=TRAPPC8 PE=1 SV=2

MAQCQSVQELIPDSFVPCVAALCSDEAERLTRLNHL SFAELLKPFSRLTSEVHMRDPNN  
QLHV IKNL KIAVSNIVTQPPQGAIRKLLNDVVSGSQPAEGLVANVITAGDYDLNISATT  
PWFESYRETFLQSM PALDHEFLNHYLACMLVASSSEAEPVEQFSKLSQEQHRIQHNSDYS  
YPKWFIPNTLKYYVLLHDVSAGDEQRAESIYEEMKQKYGTQGCYLLKINSRTSNRASDEQ  
IPDPWSQYLQKNSIQNQESYEDGPCTITSNKNSDNNLLSLDGLDNEVKDGLPNNFRAHPL  
QLEQSSDPSNSIDGPDHLRSASSLHETKKGNTGIIHGACLTLDHDIRQFIQEFTFRGL  
LPHIEKTIRQLNDQLISRKGLSRSLFSATKKWFSGSKVPEKSINDLNTSGLLYPEAPE  
LQIRKMADLCFLVQHYDLAYSCYHTAKKDFLNDQAMLYAAGALEMAAVSAFLQPGAPRPY  
PAHYMDTAIQTYRDICKNMVLAERCVLLSAELLKSQSKYSEAAALLIRLTSESDLSALS  
LLEQAAHCFINMKSPMVRKYAFHMLAGHRFSKAGQKKHALRCYCQAMQVYKKGWSLAE  
DHINFTIGRQSYTLRQLDNAVSAFRHILINESKQSAAQGAFLREYL VYKNVSQLSPDG  
PLPQLPLPYINSSATRVFFGHDRPADGEKQAATHVSLDQEYDSESSQWRELEEQVVS  
VNKGVIPSNFHTQYCLNSYSNDRFPLAVVEEPI TVEVAFRNPLKVLLLLTDL SLLWKF  
HPKDFSGKDNEEVKQLVTSEPEMIGAEVISEFLINGEESKVARLKLPHHIGELHILGVV  
YNLGTIQGSMTVDGIGALPGCHTGKYSLSMSVRGKQDLEIQGPRLNNTKEEKT SVKYGPD  
RRLDPIITEEMPLLEVFFIHFPTGLLCGEIRKAYVEFVNVSKCLTGLKVVS KRPEFFTF  
GGNTAVLTPLSPSASENC SAYKT VVTDATSVCTALISSASSVDFGIGTGSQPEVIPVPLP  
DTVLLPGASVQLPMWLRGPDEEGVHEINFLFYYESVKKQPKIRHRILRHTAI ICTSRSLN  
VRATVCRSNSLENEEGRGGMNLFVDVENTNTSEAGVKEFHIVQVSSSSKHWWLQKSVNL  
SENKDTKLASREKGFCKFAIRCEKEEAATQSSEKYTFADIIFGNEQIISSASPCADFFY  
RSLSSELKKPQAHL PVHTEKQSTEDAVRLIQKCSEVDLNIVLWKAYVEDSKQLILEGQ  
HHVILRTIGKEAFSYPQKQEPPEMELLKFFRPENITVSSRPSVEQLSLIKTSLHYPESF  
NHPFHQKSLCLVPVTL LLSNCSKADVDVIVDLRHKTTSPEALEIHGSFTWLGQTQYKLQL

KSQEIHSLQLKACFVHTGVYNLGTTPRVFAKLSQVTVFETSQQNSMPALIIISNV

>sp|094811|TPPP\_HUMAN Tubulin polymerization-promoting protein OS=Homo sapiens GN=TPPP  
PE=1 SV=1

MADKAKPAKAANRTPPKSPGDPKDRRAAKRLSLESEGAGEGAAASPELSALEEAFRRFAV  
HGDARATGREMHGKNWSKLCKDCQVIDGRNVTVDVDIVFSKIKGKSCRTITFEQFQEAL  
EELAKKRFKDKSSEEAVREVRHLIEGKAPIISGVTKAISSPTVSRLTDTTKFTGSHKERF  
DPSGKGKGKAGRVDLVDESGYVSGYKHAGTYDQKVQGGK

>sp|Q5TOD9|TPRGL\_HUMAN Tumor protein p63-regulated gene 1-like protein OS=Homo sapiens  
GN=TPRG1L PE=1 SV=1

MLQLRDSVDSAGTSPTAVLAAGEEVGAGGGPGGGRPGAGTPLRQTLWPLSIHDPTRRARV  
KEYFVFRPGSIEQAVEEIRVVVRPVEDGEIQGVWLLTEVDHWNNEKERLVLVTEQSLIC  
KYDFISLQCQQVRIALNAVDITISYGEFQFPKSLNKREGFGIRIQWQKSRPSFINRWN  
PWSTNVYPYATFTEHPMAGADEKTASLCQLESFKALLIQAVKKAQKESPLPGQANGVLILE  
RPLLIETYVGLMSFINNEAKLGYSMTRGKIGF

>sp|060507|TPST1\_HUMAN Protein-tyrosine sulfotransferase 1 OS=Homo sapiens GN=TPST1 PE=2  
SV=1

MVGKLGKQNLALLACLVISSVTVFYLGQHAMECHHRIEERSQPVKLESTRTTVRTGLDLKAN  
KTFAYHKDMPILFIGGVPRSGTTLMRAMLDHPDIRCGEETRVIPRILALKQMWSSRSKE  
KIRLDEAGVTDEVLDAMQAFLEIIVKHGEPAPYLCNKDPFALKSLTYLSRLFPNAKFL  
LMVRDGRASVHSMISRKVTIAGFDLNSYRDCLTKWNRAIETMYNQCMVEGYKKCMLVHYE  
QLVLHPERWMRTLKFLQIPWNHSLVHHEEMIGKAGVSLSKVERSTDQVIKPVNVGALS  
KWVGKIPDPVLQDMAVIAPMLAKLGYDPYANPPNYGKDPKIIENTRRVYKGEFQLPDFL  
KEKPQTEQVE

>sp|Q56UQ5|TPT1L\_HUMAN TPT1-like protein OS=Homo sapiens PE=2 SV=2

METVIMITYWDLISHSEMFSDSYMSQEIADGLRLEVEGKIVSRTEGNIFDSLIGGNASAE  
GPEGKGTSTVITGVDSVMNHHLQETSFTKEAYNKCICKDYMKSIKGLLEEQRPKRVKPFM  
TGAAEQIKHILANFKNYQKT

>sp|000220|TR10A\_HUMAN Tumor necrosis factor receptor superfamily member 10A OS=Homo  
sapiens GN=TNFRSF10A PE=1 SV=3

MAPPPARVHLGAFLAVTPNPGSAASGTEAAAATPSKVWGSSAGRIEPRGGGRGALPTSMG  
QHGPSARARAGRAPGRPARAREASPRLRVHKTFKFVVVGVLQVVPSSAATIKLHDQSIGT  
QQWEHSPLGELCPPGSHRSEHPGACNRCTEGVGYTNASNNLFACLPTACKSDEEERSPC  
TTTRNTACQCKPGTFRNDNSAEMCRKCSRGCPRGMVKVDCTPWSDIECVHKESGNHNI  
WVILVVTLVVPLLLVAVLIVCCCIGSGCGDPKCMDRVCFWRLGLLRGPAGEDNAHNEIL  
SNADSLSTFVSEQQMESQEPADLTGVTVQSPGEAQCLLGPAEAGSQRRLRLVPANGADP  
TETLMLFFDKFANIVPFDSDQLMRQLDLTKNEIDVVRAGTAGPGDALYAMLKWNKTG  
RNASIHLLDALERMEERHAREKIQDLLVDSGKFIYLEDGTGSAVSLE

>sp|014798|TR10C\_HUMAN Tumor necrosis factor receptor superfamily member 10C OS=Homo  
sapiens GN=TNFRSF10C PE=1 SV=3

MARIPKTLKFVVIVAVLLPVLAYSATTARQEEVPQQTAPQQQRHSFKGEECPAGSHRS  
EHTGACNPCTEGVDYTNASNNPSCFPCTVCKSDQKHKSSCTMTRDTCQCKEGTFRNEN  
SPEMCRKCSRCPGSEVQVSNCTSWDDIQCVEEFGANATVETPAAEETMNTSPGTPAPAAE  
ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMITSPGTPASSHY  
LSCTIVGIIVLIVLLIVFV

MQFGELLAAVRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSKQELETMAAIS  
NTVQFLEEYCKFKNTEDITFPSVYIGLKDKLSGIRKIVITESTVHLIQLLENYKKKLQEF  
KEEEYDIRTQVSAIVQRKYWTSKPEPSTREQFLQYVHDITFDPDTHAKYLRLEENRKVT  
NTPWEHPYDPLSRFLHWRQVLSQQSLYLHRYFVEVEIFGAGTYVGLTCKGIDQKGEER  
SSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFWR LGVYIDFPGGILSFYGV EYDSM  
TLVHKFACKFSEPVYAAFWSKKENAIRIVDLGEEPEKPAPSLVGTAP

MGLRKKSTKNPPVLSQEFILQNHADIVSCVGMFFLLGLVFEGTAEASIVFLTLQHSVAVP  
AAEEQATGSKSLYYYGVKDLATVFFYMLVAIIHATIQEYVLDKINKRMQFTKAKQNKFN  
ESGQFSVFYFFSCIWGTFILISENCLSDPTLIWKARPHSMMTFQMKFFYISQLAYWFHAF  
PELYFQKTKKQDIPRQLVYIGLHLFHITGAYLLYLNHLGLLLLVLHYFVELLSHMCGLFY  
FSDEKYQKGISLWAI VFILGRLVTLIVSVLTVGFHLAGSQNRNPDALTGNNVLAAKIAV  
LSSSCTIQAYVTWNLITLWLQRWVEDSNIQASCMKKKRSRSSKKRTENGVGVETSNRVDC  
PPKRKEKSS

MRDLSERRLGQPELKAEQQMPLEPVRARLSVGLACCCSHTTAEASSLEHGDKVFQGQFPS  
PLEEIKRLKKISRALQARSVPSTQEKAKCLSGEPGQPEGKGQETYPGPGKVEGKAEPAMR  
KDDVCPGMKCISG

MDSDFSHAFQKELTCVICLNLYLVPVTICCGHSFCRCLCLSWEAAQSPANCPACREPS  
KMDFKTNILLKNLVTIARKASLWQFLSSEKQICGTHRQTKMFCMDKSLCLLCSNSQE  
HGAHKHYP IEEAAEDREKLLKQMRILWKKIQENQRNLYEERRTAFLLRGDVVLRAQMIR  
NEYRKLHPVLHKEEKQHLERLNKEYQE IFQQLQRSWVKMDQKSKHLKEMYQELMEMCHKP  
EVELLQDLGDIVARSESVLLHMPQPVPNELTAGPITGLVYRLNRFRVEISFHFVETNHNI  
RLFEDVRSWMFRRGPLNSDRSDYFAAWGARVFSFGKHYYWELVDVNSCDWALGVCNNSWIR  
KNSTMVNSEDI FLLLCLKVDNHFNLLTSPVFPHYIEKPLGRVGVFLDFESGSVSFLNVT  
KSSLIWSYPAGSLTFPVRPFYTGHR

MSDVEENNFEGRSRSQSKSPTGTTPARVKSESRSGSRSPSRVSKHSESHSRSRSKSRSR  
RRHSHRRYTRSRSHSHSHRRRSRSRSYTPFYRRRRSRSHSPMSNRRRHTGSRANPDPNTC  
LGVFGLSLYTTERDLREVFSTRYGPLSGVNVVYDQRTGRSRGFAFVYFERIDDSKEAMERA  
NGMELDGRRIRVDYSITKRAHTPTPGIYMGRPTHSGGGGGGGGGGGGGGGRRRDSYYDR  
GYDRGYDRYEDYDYYRRRRSPSPYYSRYRSRSRSRSYSPRRY

MESSKKMDSPGALQTNPPLKLHTDRSAGTPVFVPEQGGYKEKFKVKTVEDKYKCEKCHLV  
CSPKQTECGHRFCESCMAALLSSSSPKCTACQESIVKDKVFKDNCKREILALQIYCRNE  
SRGCAEQLMLGHLLVHLKNDCHFEELPCVRPDCKEKVLRKDLRDHVEKACKYREATCSHC  
KSQVPMIALQKHEDTDCPCVVVSCPHKCSVQTLRSELSAHLSECVNAPSTCSFKRYGCV

FQGTNQKKAHEASSAVQHVNLLKEWSNSLEKKVSLQNESVEKNKSIQSLHNQICSFEI  
EIERQKEMLRNNESKILHLQRVIDSQAELKELDKAIRPFRQNWEEADSMKSSVESLQNR  
VTELESVDKSAGQVARNTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLETASYNGVLIW  
KIRDYKRRKQEAVMGKTLISLYSQPFYTGFGYKMCARVYLNGDGMKGTHLSLFFVIMRG  
EYDALLPWPFKQKVTLMMDQGSSRRHLGDAFKPDPNSSSFKKPTGEMNIASGCPVFVAQ  
TVLENGTYIKDDTIFIKVIVDTSDLDPD

>sp|Q9BWF2|TRAIP\_HUMAN E3 ubiquitin-protein ligase TRAIP OS=Homo sapiens GN=TRAIP PE=1 SV=1

MPIRALCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPCRIQVGKRTIIN  
KLFFDLAQEEENVLDAEFLKNELDNVRAQLSQDKKEKRD SQVIIDTLRDTLEERNATVVS  
LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEARRLRSKMKTMEQIELLLQSQRPEV  
EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLKDLFSSRSKLQTVY  
SELDQAKLELKSQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRVLVLESPAPVE  
VNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYEKLCEKSHSPIQDVPKKICKGP  
RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSCSKDVRTGFDGL  
GGRTKFIQPTDTVMIRPLPVKPKTKVKQRVRVKTVP SLFQAKLDTFLWS

>sp|Q15035|TRAM2\_HUMAN Translocating chain-associated membrane protein 2 OS=Homo sapiens GN=TRAM2 PE=1 SV=1

MAFRRTKSYPLFSQEFVIHNDIGFCLVLCVLIGLMFEVTAKTAFLFILPQYNISVPT  
ADSETVHYHYGPKDLVTILFYIFITILHAVVQEYILDKISKRLHLSKVHSHKFNESGQL  
VVFHFTSVIWCYFVVTEGYLTNPRSLWEDYPHVHLPFQVKFFYLCQLAYWLHALPELYF  
QKVRKEEIPRQLQYICLYLVHAGAYLLNLSRLGLILLLLQYSTEFLFHTARLFYFADEN  
NEKLFSAAVAVFGVTRFLITLAVLAIGFGLARMENQAFDPEKGNFNTLFCRLCVLLLVC  
AAQAWLMWRFIHSQLRHWREYWNEQSAKRRVPATPRLPARLIKRESGYHENG VVKAENGT  
SPRTKKLKSP

>sp|Q6ZNB5|TRC2L\_HUMAN Putative short transient receptor potential channel 2-like protein OS=Homo sapiens PE=5 SV=1

MAPVKISHVVSFSSQDPKYPVENLLNPDSPPRPWLGCQDKSGQLKVELQLERAVPTGYI  
DVGNCGCAFLQIDVGHSSWPLDRPFITLLPATTLMSLTDSKQGKNRSGVRMFKDGKEGKS  
RKDGGGLYEKQRCSTKEDCECY

>sp|Q5T2D2|TRML2\_HUMAN Trem-like transcript 2 protein OS=Homo sapiens GN=TREML2 PE=1 SV=2

MAPAFLLLLLLWPQGCVSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIRK  
KKCEPGFARVWVGPRYLLQDDAQAKVVNITMVALKLQDSGRYWCMRNTSGILYPLMGFQ  
LDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSGPDAPFTTGVMVFTPGLITLPRLLA  
STRPASKTGYSFTATSTTSQGPRRTMGSTVTASPSNARDSSAGPESISTKSGDLSTRSP  
TTGLCLTSRSLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMLIMVYGFWKKRHMASYSMC  
SDPSTRDPPGRPEPYVEVYLI

>sp|Q9BU70|TRMO\_HUMAN tRNA (adenine(37)-N6)-methyltransferase OS=Homo sapiens GN=TRMO PE=2 SV=2

MRLGESGPRPTATPCGCVKPALETGNLLTEPVGYLESCFSAKNGTPRQPSICSYSRACL  
RIRKRIFNNPEHSLMGLEQFSHVWILFVFHKNHLSCKAKVQPPRLNGAKTGVFSTRSPH  
RPNAIGLTLAKLEKEGGAIYLSGIDMIHGTPVLDIKPYIAEYDSPQNVMEPLADFNLQN  
NQHTPNTVSQSDSKTDSQDQRLSGCDEPQPHHSTKRKPKCPEDRTSEENYLTHSDTARI  
QQAFPMHREIAVDFGLESRRDQSSSVAEEQIGPYCPEKSFSEKGTDKKLERVEGA AVLQG

SRAETQPMAPHCPAGRADGAPRSVVPAPVTEAPVATLEVRFTPHAEMDLGQLSSQDVGQA  
SFKYFQSAEEAKRAIEAVLSADPRSVYRRKLCQDRLFYFTVDIAHVTCWFGDGF AEVLRI  
KPASEPVMHTGPVGSLSVSLGS

>sp|Q9HCX4|TRPC7\_HUMAN Short transient receptor potential channel 7 OS=Homo sapiens  
GN=TRPC7 PE=1 SV=1

MLRNSTFKNMQRRHTTLREKGRRQAIRGPAYMFNEKGTSLTPEEERFLDSA EYGNIPVVR  
KMLEESKTLNFCVDYMGQNALQLAVGNEHLEVTELLKKENLARVGDALLAISKG YVR  
IVEAILNHFAFAQQRLTSLPELQELRDDDFYAYDEDGTRFSHDITPIILAAHCQEY EIV  
HILLKGA RIERPHDYFCKNECTEKQRKDSFSHSRSMNAYKGLASAA YLSLSS EDPVL  
TALELSNELARLANIETEFKNDYRKLSMQCKDFVVGVLDCRDTEEVEAILNGDVNFQVW  
SDHHRPSLSRIKLAIKYEVKKFVAHPNCQQQLLTMWYENLSGLRQQSI AVKFLAVFGVSI  
GLPFLAIAYWIAPCSKLGRTLRSFPMKFVAHAVSFTIFLGLLVN ASDRFEGVKTLPNET  
FTDYPKQIFRVKTTQFSWTEMLIMKWVLGMIWSECKEIWEEGPREYVLHLWNLLDFGMLS  
IFVASFTARFMAFLKATEAQLYVDQHVQDDTLHNVSLPPEVAYFTYARDKWWPSDPQIIS  
EGLYAI AVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVIFIMVFVAFMIGMFNL  
YSYYRGAKYNPAFTTVEESFKTLFWSIFGLSEVISVVLKYD HKFIENIGVLYGVYNVTM  
VVVLLNMLIAMINNSYQEIEEDADVEWK FARAKLWLSYFDEGRTL PAPFNLVPSPKSFYY  
LIMRIKMCLIKLCKSKAKSCENDLEMGMLNSKFKKTRYQAGMRNSENLTANNTLSKPTRY  
QKIMKRLIKRYVLKAQVDRENDEVNEGELKEIKQDISSLRYELLE EKSQATGELADLIQQ  
LSEKFGKNLNKDHLRVNKGKDI

>sp|Q9HCF6|TRPM3\_HUMAN Transient receptor potential cation channel subfamily M member 3  
OS=Homo sapiens GN=TRPM3 PE=2 SV=4

MPEPWGTVYFLGIAQVFSFLFSWWNLEGVMNQADAPRPLNWTIRKLCHAAFLPSVRLLKA  
QKSWIERAFYKRECVHIIPSTKDPHRCCCGRLIGQHVGLTPSISVLQNEKNESRLSRNDI  
QSEKWSISKHTQLSPTDAFGTIEFQGGGHSNKAMYVRVSFDTKPDLLHLMTKEWQLELP  
KLLISVHGGLQN FELQPKLKQVFGKGLIKAAMTTGAWIFTGGVNTGVIRHVG DALKDHAS  
KSRGICTIGIAPWGIVENQEDLIGRDVVRPYQTMSNPMSKLTVLNSMHSHFILADNGTT  
GKYGA EVKLRRQLEKHISLQKINTRCLPFFSLDSRLFYSFWGSCQLDSVGIGQGPVVAL  
IVEGGPNVISIVLEYLRDTPPVVPPVVCDGSGRASDILAFGHKYSEEGGLINESLRDQLLV  
TIQKTFTYTRTQAQHLFIILMECMKKKELITVFRMGSEGHQDIDLAILTALLKGANASAP  
DQLSLALAWN RVDIARSQIFIYGGQWPVGSLEQAMLDALVLD RVDVFKLLIENGVS MHRF  
LTISRLEELYNTRHGPSNTLYHLVRDVKKGNLPPDYRISLIDIGLVIEYLMGGAYRCNYT  
RKRFR TLYHNLFGPKRPKALKLLGMEDDIPLRRGRKTTKKREEEVDIDLDDPEINHFPFP  
FHELMVWAVLMKRQKMA LFFWQHGE EAMAKALVACKLCKAMAHEASENDMVDDISQELNH  
NSRDFGQLAVELLDQSYKQDEQLAMKLLTYELKNWSNATCLQLAVA AKHRDFIAHTCSQM  
LLTDMWMGRLMRKNSGLKVILGILLPPSILSLEFKNKDDMPYMSQAQEIHLQEKEAE EEP  
EKPTKEKEEEDMELTAMLRNNGESSRKKDEEEVQSKHRLIPLGRKIYEFYNAPIVKFWF  
YTLAYIGYLM LFN YIVLVKMERWPSTQEWIVISYIFTLGIEKMREILMSEPGKLLQKVKV  
WLQEYWNVTDLIAILLFSVGMILRLQDQPFSDGRVIYCVNIYWYIRLLDIFGVNKYLG  
PYVMMIGKMMIDMMYFV IIMLVVLSFGVARQAILFPNEEPSWKLAKNIFYMPYWMIYGE  
VFADQIDPPCGQNETREDGKIIQLPPCKTGAWIVPAIMACYLLVANILLVNLLIAVFNNT  
FFEKVISISNQVVKFQRYQLIMTFHERPVLPPPLIIFSHMTMIFQHLCRWRKHESDPDER  
DYGLKLFITDDELKKVHDFEEQCIEEYFREKDDRFNSSNDERIRVTSERVENMSMRLEEV  
NEREHSMKASLQTVDIRLAQLEDLIGRMATALERLTGLERAESNKIRSRTSSDCTDAAYI

VRQSSFNSQEGNTFKLQESIDPAGEETMSPTSPTLMPRMRSHSFYSVNMKDKGGIEKLES  
IFKERSLSLHRATSSHSVAKEPKAPAAPANTLAIVPDSRRPSSCIDIYVSAMDELHCDID  
PLDNSVNILGLGEPFSFSTPVPSTAPSSSAYATLAPTDRPPSRSIDFEDITSMDFRSFSSD  
YTHLPECQNPWDSEPPMYHTIERSKSSRYLATTPFLLEEAPIVKSHSFMFSPSRSYANF  
GVPVKTAEYTSITDCIDTRCVNAPQAIADRAAFPGLGDKVEDLTCCHPEREAELSHPSS  
DSEENEAKGRRATIAISSQEGDNSERTLSNNITVPKIERANSYSAEEPSAPYAHTRKSFS  
ISDKLDRQRNTASLRNPFQRSKSSKPEGRGDSLSMRRLSRTSAFQSFESKH

>sp|Q8TD43|TRPM4\_HUMAN Transient receptor potential cation channel subfamily M member 4  
OS=Homo sapiens GN=TRPM4 PE=1 SV=1

MVVPEKEQSWIPKIFKKKTCTTFIVDSTDPGGTLCQCGRPRTAHPAVAMEDAFGAADVTV  
WSDAHTTEKPTDAYGELDFTGAGRKHSNFLRLSDRTDPAAVYSLVTRTWGFRAPNLVVS  
VLGGSGGPVLQTLWQLDLLRRGLVRAAQSTGAWIVTGGLHTGIGRHVGVAVRDHQMASTGG  
TKVAMGVAPWGVVRNRDTLINPKGSFPARYRWGDPEDGVQFPLDYNYSAFFLVDDGTH  
GCLGGENRFRRLRESYISQKKTGVGGTGIDIPVLLLLIDGDEKMLTRIENATQAQLPCLL  
VAGSGGAADCLAETLEDTLAPGSGGARQGEARDRIRRFFPKGDLEVLQAQVERIMTRKEL  
LTVYSSEDGSEEFETIVLKALVKACGSSEASAYLDELRLAVAWNRVDIAQSELFRGDIQW  
RSFHLEASLMDALLNDRPEFVRLLSHGLSLGHFLTPMRLAQLYSAAPSNLIRNLLDQA  
SHSAGTKAPALKGAAELRPPDVGHVLRMLLGKMCAPRYPSGGAWDPHPGQGFGESMYLL  
SDKATSPLSLDAGLGQAPWSDLLLWALLNRAQMAMYFWEMGSNAVSSALGACLLLRVMA  
RLEPDAAEEAARRKDLAFKFEGMGVDLFGECYRSSEVRAARLLLRRCPLWGDATCLQLAMQ  
ADARAFFAQDGVQSLLTQKWWGDMASSTPIWALVLAFFCPPLIYTRLITFRKSEEEPTRE  
ELEFDMDSVINGEPPVGTADPAEKTPLGVPRQSGRPGCCGGRGRRCLRRWFHFWGAPV  
TIFMGNVVSYLLFLLLSRVLLVDFQPAPPGSLELLLYFWAFTLLCEELRQGLSGGGGSL  
ASGGPGPGHASLSQRLRLYLADSWNQCDLVALTCFLLGVGCRLTPGLYHLGRTVLCIDFM  
VFTVRLLIHFTVNKQLGPKIVIVSKMMKDVFFFLFGLGVWLVAYGVATEGLLRPRDSDFP  
SILRRVFYRYPYLQIFGQIPQEDMDVALMEHSNCSSEPFGWAHPGAQAGTCVSQYANWL  
VLLLVIFFLLVANILLVNLLIAMFSYTFGKVQNSDLYWKAQRYRLIREFHSRPALAPPI  
VISHLRLLLRQLCRRPRSPQPSPALEHFRVYLSKEAERKLLTWESVHKENFLLARARDK  
RESDSERLKRTSQKVDLALKQLGHIREYEQRLKVLEREVQQCSRVLGWVAEALSRSALLP  
PGGPPPPDLPGSKD

>sp|Q9NW97|TMM51\_HUMAN Transmembrane protein 51 OS=Homo sapiens GN=TMEM51 PE=1 SV=1

MMAQSKANGSHYALTAIGLMLVLGVIMAMWNLVPGFSAAEKPTAQGSNKTEVGGGILKS  
KTFVAVYVLVGAGVMLLLLSICLSIRDKRKQRQGEDLAHVQHPTGAGPHAQEEDSQEEEE  
EDEEAASRYVPSYEEVMNTNYSEARGEEQNPRLSISLPSYESLTGLDETTPTSTRADVE  
ASPGNPPDRQNSKLAKRLKPLKVRRIKSEKLHLKDFRINLPDKNVPPPSIEPLTPPPQYD  
EVQEKAPDTRPPD

>sp|Q5SWH9|TMM69\_HUMAN Transmembrane protein 69 OS=Homo sapiens GN=TMEM69 PE=2 SV=1

MLRFIQKFSQASSKILKYSFPVGLRTRSDILSLKMSLQQNFSPCPRWLSSSFAYMSK  
TQCYHTSPCSFKKQKQALLARPSSTITYLTDSPKPALCVTLAGLIPFVAPPLVMLTKT  
YIPILAFTQMAYGASFLSFLGGIRWGFALPEGSPAHPDYLNASSAAPLFFSWFAFLISE  
RLSEAIVTVMGMGVAFHLELFLPHYPNWFKALRIVVTLLATFSFIITLVVKSSFPEKG  
HKRPGQV

>sp|Q9BUB7|TMM70\_HUMAN Transmembrane protein 70, mitochondrial OS=Homo sapiens GN=TMEM70  
PE=1 SV=2

MLFLALGSPWAVELPLCGRRTALCAAAALRGPRASVSRASSSSGSPGPVAGWSTGPSGAA  
RLRRPGRQAIPVYEWGYVRFNLTPSDKSEDGRLIYTGNMARAVFGVKFSYSTSLIGLT  
FLPYIFTQNNAISESVPPIQIIIFYGIMGSTVITPVLLHFITKGYVIRLYHEATDTYK  
AITYNAMLAETSTVFHQNDVKIPDAKHVFTTFYAKTKSLLVNPVLPNREDYIHLMGYDK  
EEFILYMEETSEEKRHKDDK

>sp|Q5T7P6|TMM78\_HUMAN Transmembrane protein 78 OS=Homo sapiens GN=TMEM78 PE=2 SV=1  
MWLDTRNLGIVISCWKGVCPQTITLEMFYNDNRVEESSNSYQIRREFLLPACLPFLS  
FSTSFSSFLSFLPLSLSLFLPFFPSFFLSLSLSPSFLPSFLRQGLALSPRLECDGAIMIH  
CSLNIPGSSDPPTSAS

>sp|A6NDV4|TMM8B\_HUMAN Transmembrane protein 8B OS=Homo sapiens GN=TMEM8B PE=1 SV=2  
MNMPQSLGNQPLPEPPSLGTPAEGPGTTSPEHCWPVRPTLRNELDTFSVHFYIFFGPS  
VALPPERPAVFAMRLLPVLDSSGVLSELEQLNASSVRQENVTVFGCLTHEVPLSLGDAV  
TCSKESLAGFLLSVSATRVARLRIPFPQTGTWFLALRSLCGVGPRFVRCRNATAEVRMR  
TFLSPCVDDCGPYGQCKLLRTHNYLYAAACECKAGWRGWCSTDSADALTYGFQLSTLLC  
LSNLMFLPPVVLAIARSRYVLEAAVYFTTMFFSTFYHACDQPGIVVFCIMDYDVLQFCDFL  
GSLMSVWVTVIAMARLQPVVKQVLYLLGAMLLSMALQLDRHGLWNLLGPSLFALGILATA  
WTVRSVRRRHCPPTWRRWLFYLCPGSLIAGSAVLLYAFVETRDNYFYIHSIWHMLIAGS  
VGFLPPRAKTDHGVSPGARARGCGYQLCINEQEELGLVPGGATVSSICAS

>sp|Q3KNT9|TMM95\_HUMAN Transmembrane protein 95 OS=Homo sapiens GN=TMEM95 PE=2 SV=1  
MWRLALGGVFLAAAQACVFCRLPAHDLSGRLARLCSQMEARQKECGASPDFSAFALDEVS  
MNKVTEKTHRVLRVMEIKEAVSSLPYSWLRKTKLPEYTREALCPPACRGSTTLNCST  
CKGTEVSCWPRKRCFPGSQDLWEAKILLLSIFGAFLLLGVLSELLVESHHLQAKSGL

>sp|Q9NYL9|TMOD3\_HUMAN Tropomodulin-3 OS=Homo sapiens GN=TMOD3 PE=1 SV=1  
MALPFRKDLEKYKDLDEDELLGNLSETELKQLETVLDLDPENALLPAGFRQKNQTSKST  
TGPFDREHLLSYLEKEALEHKDREDYVPYTGEKKGKIFIPKQKPVQTFTEEKVSLDPELE  
EALTSASDTELCDLAAILGMHNLITNTKFCNIMGSSNGVDQEHFSNVVKGEKILPVFDEP  
PNPTNVEESLKRTEKENDAHLEVNLLNNIKNIPIPTLKDFAKALETNTHVKCFSLAATRSN  
DPVATAFAEMLKVNKTLKSLNVESNFITGVGILALIDALRDNETLAELKIDNRQQQLGTA  
VELEMAKMLEENTNILKFGYQFTQQGPRTRAANAITKNNDLVRKRRVEGDHQ

>sp|P57727|TMPS3\_HUMAN Transmembrane protease serine 3 OS=Homo sapiens GN=TMPS3 PE=1  
SV=2

MGENDPPAVEAPFSFRSLFGLDDLKISPVAPDADAVAAQILSLLPLKFFPIIVIGITALI  
LALAIGLGIHFDCSGKYRCRSSFKCIELIARCDGVSDCKDGEDEYRCVRVGGQNAVQLQVF  
TAASWKTMCSDDWKGHYANVACAQLGFPSYVSSDNLRVSSLEGQFREEFVSIDHLLPDDK  
VTALHHSVYVREGCASGHVVTLQCTACGHRRGYSSRIVGGNMSLLSQWPWQASLQFQGYH  
LCGGSVITPLWIIITAAHCVDLYLPKSWTIQVGLVSLDNPAPSHLVEKIVYHSHYKPKR  
LGNDIALMKLAGPLTFNEMIQPVCLPNSEENFPDGKVCWTSWGATEDGAGDASPLNHA  
AVPLISNKCINHRDVGGIISPSMLCAGYLTGGVDSCQGDSSGGLVCQERRLWKLVGATS  
FGIGCAEVNKPVGVTYTRVTSFLDWIHEQMERDLKT

>sp|Q7Z410|TMPS9\_HUMAN Transmembrane protease serine 9 OS=Homo sapiens GN=TMPS9 PE=1  
SV=2

MEPTVADVHLVPRTTKEVPALDAACCRAASIGVVATSLVVLTLGVLLAFLSTQGFHVDHT  
AELRGIRWTSSLRRETSYHRTLPTLEALLHFLLRPLQTLSLGLEEELLQRGIRARLRE  
HGISLAAYGTIVSAELTGRHKGPLAERDFKSGRCPGNSFSCGNSQCVTKVNPECDDQEDC

SDGSDEAHCEGLQPAWRMAGRIVGGMEASPGFEPWQASLRENKEHFCGAAIINARWLVS  
AAHCFNEFQDPTKWVAYVGATYLSGSEASTVRAQVVQIVKHPLYNADTADFVAVLELTS  
PLPFGRIHQPVCLPAATHIFPPSKKCLISGWGYLKEDFLVKPEVLQKATVELLDQALCAS  
LYGHSLTDRMVCAGYLDGKVDSCQGDSSGGLVCEEPSGRFFLAGIVSWGIGCAEARPGV  
YARVTRLRDWILEATTKASMPAPTMAPAPAAPSTAWPTSPESPVVSTPTKSMQALSTVP  
LDWVTVPKLQECGARPAMEKPTRVVGGFGAASGEVPWQVSLKEGSRHFCGATVVGDRWLL  
SAAHCFNHTKVEQVRAHLGTASLLGLGGSPVKIGLRRVVLHPLYNPGILDFDLAVLELAS  
PLAFNKYIQPVCLPLAIQKFPVGRKCMISGWGNTQEGNATKPELLQKASVGIIDQKTCSV  
LYNFSLTDRMICAGFLEGKVDSCQGDSSGGLACEEAPGVFYLAGIVSWGIGCAQVKKPGV  
YTRITRLKGWILEIMSSQPLMSPSTTRMLATTSPRTTAGLTVPGATPSRPTPGAASRV  
TGQPANSTLSAVSTTARGQTPFPDAPEATHTQLPDCGLAPAALTRIVGGSAAGRGEWPW  
QVSLWLRREHRCGAVLVAERWLLSAAHCFDVYGDPKQWAAFLGTPFLSGAEGQLERVAR  
IYKHPFYNYLTLDYDVALLELAGPVRRSRLVRPICLPEPAPRPPDGTRCVITGWGSVREG  
GSMARQLQKAAVRLLSEQTCRRFYPVQISSRMLCAGFPQGGVDSCSGDAGGPLACREPSG  
RWVLTGVTSWGYGCGRPHFPGVYTRVAAVRGWIGQHIQE

>sp|Q86WS5|TMPSC\_HUMAN Transmembrane protease serine 12 OS=Homo sapiens GN=TMPRSS12 PE=1  
SV=2

MRLGLLSVALLFVGSSHLYS DHYSPSGRHRLGPSPEPAASSQQA EAVRKRLRRRREGGAH  
AEDCGTAPLKDVLQGSRIIGGTEAQAGAWPVVSLQIKYGRVLVHVCGGTLVRERWVLT  
AHCTKDASDPLMWTAVIGTNNIHGRYPHTKKIKIKAI IHPNFILESYVNDIALFHLKKA  
VRYNDYIQPICLPFDVFQILDGNTKCFISGWGRTEEKNATNILQDAEVHYISREMCNSE  
RSYGGIIPNTSFCAGDEDGAFDTCRGDSSGGLM CYLPEYKRFFVMGITSYGHGCGRRGFP  
GVYIGPSFYQKWLTEHFFHASTQGILTINILRGQILIALCFVILLATT

>sp|Q5T4D3|TMTC4\_HUMAN Transmembrane and TPR repeat-containing protein 4 OS=Homo sapiens  
GN=TMTC4 PE=2 SV=2

MAVLDTDLDHILPSSVLPPFWAKLVVGSVAIVCFARSYDGFVFDDEAIVNNKDLQAET  
PLGDLWHHDFWGSRLSSNTSHKSYRPLTVLTFRINYLSGGFHPVGFHVVNILLHSGISV  
LMVDVFSVLFGGLQYTSKGRRLHLAPRASLLAALLFAVHPVHTECVAGVVGRADLLCALF  
FLLSFLGYCKAFRESNKEGAHSSTFWVLLSIFLGAVAMLCKEQGITVLGLNAVFDILVIG  
KFNVL EIVQKVLHKDKSLENLGM LRNGLLFRMTLLTSGGAGMLYVRWRIMGTGPPAFTE  
VDNPASFADSM LVRAVNYYYYSLNAWLLCPWWLCFDWSMGCIPLIKSI SDWRVIALAA  
LWFCLIGLICQALCEDGHKRRILTLGLGFLVIPFLPASNLFFRVGFVAERVLYLPSVG  
YCVLLTFGFGALSKHTKKKKLIAAVVLGILFINTLRCVLRSGEWRSEEQLFRSALSVCP  
NAKVHYNIGKNLADKGNQTA A IRYREAVRLNPKYVHAMNNLGNILKERNELQEA EELS  
LAVQIQPDFAAAWMNLGIVQNSLKRFEAAEQSYRTAIKHRRKYPDCYYNLGRLYADLNRH  
VDALNAWRNATVLKPEHSLAWNMIILLDNTGNLAQAEAVGREALELIPNDHSLMFSLAN  
VLGKSQKYKESEALFLKAIKANPNAASYHGNLAVLYHRWGHLDLAKKHYEISLQLDPTAS  
GTKENYGLLRKLELMQKKAV

>sp|Q9Y320|TMX2\_HUMAN Thioredoxin-related transmembrane protein 2 OS=Homo sapiens GN=TMX2  
PE=1 SV=1

MAVLAPLIALVYSVPRLSRWLAQPYLLSALLSAAFLVRKLPPLCHGLPTQREDGNPCD  
FDWREVEILMFLSAIVMMKNRRSITVEQHIGNIFMFSKVANTILFFRLDIRMGLLYITLC  
IVFLMTCKPPLYMGPEYIKYFNDKTIDEELERDKRVTWIVEFFANWSNDCQSFAP IYADL  
SLKYNCTGLNFGKVDVGRYTDVSTRYKVSTSPLTKQLPTLILFQGGKEAMRRPQIDKKGR



AVSWTFSEENVIREFNLNELYQRAKKLSKAGDNIPEEQPVASTPTTVSDGENKKDK

>sp|Q96JJ7|TMX3\_HUMAN Protein disulfide-isomerase TMX3 OS=Homo sapiens GN=TMX3 PE=1 SV=2

MAAWKSWTALRLCATVVVLDMVVCKGFVEDLDESFKENRNDIWLVDIFYAPWCGHCKKLE  
PIWNEVGLEMKSIGSPVKVGKMDATSYSSIASEFGVRGYPTIKLLKGDLAYNYRGPRTKD  
DIIIEFAHRVSGALIRPLPSQQMFEHMQKRHRVFFVYVGGESPLKEYIDAASELIVYTYF  
FSASEEVVPEYVTLKEMPAVLVFKDETYFVYDEYEDGDLSSWINRERFQNYLAMDGFLLY  
ELGDTGKLVALAVIDEKNTSVEHTRLKSIIQEVARDYRDLFHRDFQFGHMDGNDYINTLL  
MDELTVPVVVLTNSNQYFLLDRQIKNVEDMVQFINNILDGTVEAQGGDSILQRLKRIV  
FDAKSTIVSIFKSSPLMGCFLGFLPLGVISIMCYGIYTADTDGGYIEERYEVSKSENENQ  
EQIEESKEQQEPSSGGSVVPTVQEPKDVLEKKKD

>sp|P21580|TNAP3\_HUMAN Tumor necrosis factor alpha-induced protein 3 OS=Homo sapiens  
GN=TNFAIP3 PE=1 SV=1

MAEQVLPQALYLSNMRAVKIRERTPEDIFKPTNGIIHHFKTMHRYTLEMFRTCQFCPQF  
REIIHKALIDRNIQATLESQKKLNWCREVRLVALKTNGDGNCLMHATSQYMWGVQDIDL  
VLRKALFSTLKETDRNFKFRWQLESLSQEFVETGLCYDTRNWNDEWDNLIKMASTDTP  
MARSGLQYNSLEEIHIFVLCNILRRPIIVISDKMLRSLESGSNFAPLKVGGIYLPPLHWA  
QECYRYPITVLGYDSHHFVPLVTLKDSGPEIRAVPLVNRDRGRFEDLVHFLTDPENEMKE  
KLLKEYLMVIEIPVQGDHGTTHLINAAKLDEANLPKEINLVDDYFELVQHEYKKWQENS  
EQGRREGHAQNPMEPSVPQLSLMDVKCETPNCPFFMSVNTQPLCHECSERRQKNQNLPK  
LNSKPGPEGLPGMALGASGEAYEPLAWNPEESTGGPHSAPPTAPSPFLFSETTAMKCRS  
PGCPFTLVNQHNFGCERCHNARQLHASHAPDHRHLDPGKCQACLQDVTRTFNGICSTCF  
KRTTAEASSSLSTSLPPSCHQRSKSDPSRLVRSPSPHSCHRAGNDAPAGCLSQAARTPGD  
RTGTSKCRKAGCVYFGTPENKGFCCTLCFIEYREKHFHAAASGKVSPTASRFQNTIPCLGR  
ECGTLGSTMFEGYCQKCFIEAQNRQFHEAKRTEEQLRSSQRRDVPRTTQSTS RPKCARAS  
CKNILACRSEELCMECQHPNQRMGPGAHRGEPAPEDPPKQRCRAPACDHFGNAKCNNGYCN  
ECFQFKQMYG

>sp|O75888|TNF13\_HUMAN Tumor necrosis factor ligand superfamily member 13 OS=Homo sapiens  
GN=TNFSF13 PE=1 SV=1

MPASSPFLAPKPPGNMGPPVREPALSVALWLSWGAALGAVACAMALLTQQTELQSLRR  
EVSRLQGTGGPSQNGEGYPWQSLPEQSSDALEAWENGERSRKRRAVLTQKQKKQHSVLHL  
VPINATSKDDSDVTEVMWQPALRRGRGLQAQGYGVRIQDAGVYLLYSQVLFQDVTFTMGQ  
VVSREGQGRQETLFR CIRSMPSHPDRAYNSCYSAGVFHLHQGDILSVIIPRARA KNLSP  
HGTFLGFVKL

>sp|Q06643|TNFC\_HUMAN Lymphotoxin-beta OS=Homo sapiens GN=LTB PE=1 SV=1

MGALGLEGRGRLQGRGSLLLAVAGATSLVTLLAVPITVLAVLALVPQDQGGLVTETAD  
PGAQAQQGLGFQKLPEEEPETDLSPLPAHLIGAPLKGQGLGWETTKEAFLTSGTQFS  
DAEGLALPQDGLYYLYCLVGYRGRAPPGGDPQGRSVTLRSSLYRAGGAYGPGTPELLE  
GAETVTPVLDPARRQGYGPLWYTSVGFGLVQLRRGERVYVNI SHPDMVDFARGKTFFGA  
VMVG

>sp|Q92973|TNPO1\_HUMAN Transportin-1 OS=Homo sapiens GN=TNPO1 PE=1 SV=2

MVWDRQTKMEYEWKPDEQGLQILQLLKESQSPDTTIQRTVQQKLEQLNQYPDFNNYLIF  
VLTKLSEDEPTRSLSGILKNNVKAHFQNFNGVTDIFIKSECLNNIGDSSPLIRATVGI  
LITTIASKGELQNWPDLLPKLCSLLDSEDYNTCEGAFGALQKICEDSAEILDSDVLDRLPL  
NIMIPKFLQFFKHSSPKIRSHAVACVNQFIISRTQALMLHIDSFIE NLFALAGDEEPEVR

KNVCRALVMLLEVRMDRLPHMHNI VEYMLQRTQDQDENVALEACEFWLT LAEQPICKDV  
LVRHLPKLI PVLVNGMKYSDIDI ILLKGDVEEDETIPDSEQDIRPRFHRSRTVAQQHDED  
GIEEDDDDDDEIDDDDTISDWNLRKCSAAALDVLANVYRDELLPHILPLLKELLFHHEWV  
VKESGILVLGAIAEGCMQGMIPYLP ELIPHLIQCLSDKKALVRSITCWTLSRYAHWVVSQ  
PPDTY LKPLMTELLKRILDSNKR VQEAACSAFATLEEEACTELVPYLA YILDTLVFAFSK  
YQHKNLLILYDAIGTLADSVGHHLNKPEYIQMLMPPLIQKWNMLKDEDKDLFPLLECLSS  
VATALQSGFLPYCEPVYQRCVNLVQKT LAQAMLNNAQPDQYEAPDKDFMIVALDLLSGLA  
EGLGGNIEQLVARSNIL TLMYQCMQDKMPEVRQSSFALLGDLTKACFQHV KPCIADFMPI  
LGTNLNPEFISVCNNATWAIGEISI QMGIEMQPYIPMVLHQLVEI INRPNTPKT LLENTA  
ITIGRLGYVCPQEVAPMLQQFIRPWCTSLRNIRDNEEKDSAFRGICTMISVNP SGVIQDF  
IFFCDAVASWINPKDDL RDMFCKILHGFKNVGDENWRRFSDQFPLPLKERLAAFYGV

>sp|O14787|TNPO2\_HUMAN Transportin-2 OS=Homo sapiens GN=TNPO2 PE=1 SV=3

MDWQPDEQGLQQVLQLLKDSQSPNTATQRIVQDKLKQLNQFPDFNNYLIFVLTRLKSEDE  
PTRSLSGLILKNVKAHYQSFP PPVADF IKQECLNNIGDASSLIRATIGILITTIASKGE  
LQMWPPELLPQLCNLLNSEDYNTCEGAFGALQKICEDSSELLDSDALNRPLNIMIPKFLQF  
FKHCSPKIRSHAIACVNQFIMDRAQALMDNIDTFIEHLFALAVDDDPEVRKNVCRALVML  
LEVRIDRLIPHMHSI IQYMLQRTQDHDENVALEACEFWLT LAEQPICKEVLASHLVQLIP  
ILVNGMKYSEIDI ILLKGDVEEDEAVPDSEQDIKPRFHKSRTVTL PHEAERPDGSEDAED  
DDDDDALSDWNLRKCSAAALDVLANVFREE LLPHLLPLLKGLLFHPEWVVKESGILVLGA  
IAEGCMQGMVPYLP ELIPHLIQCLSDKKALVRSIACWTLSRYAHWVVSQPPDMHLKPLMT  
ELLKRILDGNKR VQEAACSAFATLEEEACTELVPYLSYILDTLVFAFGKYQHKNLLILYD  
AIGTLADSVGHHLNQPEYIQKLM PPLIQKWNE LKDEDKDLFPLLECLSSVATALQSGFLP  
YCEPVYQRCVTLVQKT LAQAMMYTQHPEQYEAPDKDFMIVALDLLSGLAEGLGGHVEQLV  
ARSNIMTLLFQCMQDSMPEVRQSSFALLGDLTKACFIHV KPCIAEFMPI LGTNLNPEFIS  
VCNNATWAIGEICMQMGAEMQPYVQMV LNNLVEI INRPNTPKT LLENTGRLTSPSAIPAI  
TIGRLGYVCPQEVAPMLQQFIRPWCTSLRNIRDNEEKDSAFRGICMMIGVNP GG VQDFI  
FFCDAVASWVSPKDDL RDMFYKILHGFKDQVGEDNWQQFSEQFPPLKERLAAFYGV

>sp|Q9Y6Q6|TNR11\_HUMAN Tumor necrosis factor receptor superfamily member 11A OS=Homo sapiens GN=TNFRSF11A PE=1 SV=1

MAPRARRRRPLFALLLLCALLARLQVALQIAPPCTSEKHYEHLGRCCNKCEPGKYMSSKC  
TTTSDSVCLPCGPDEYLD SWNEEDKCLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHW  
SQDCECCRRNTECAPGLGAQHPLQLNKDTVCKPCLAGYFSDAFSSTDKCRPWTNCTFLGK  
RVEHHGTEKSDAVCSSSLPARKPPNEPHVYLPGLI ILLLFASVALVAAI IFGVCYRKKGK  
ALTANLWHWINEACGRLSGDKESSGDS CVSTHTANFGQQGACEGVLLLTLEEKTFPEDMC  
YPDQGGVCQGTCVGGGPYAQGEDARMLSLVSKTEIEEDSFRQMPTED EYMDRPSQPTDQL  
LFLTEPGSKSTPPFSEPLEVGENDSLSQCFGTGTSTVGSESCNCTEPLCRTDWT PMSEN  
YLQKEVDSGHCPHWAASPSPNWADVCTGCRNPPGEDCEPLVGSPKRGPLPQCAYGMGLPP  
EEEASRTEARDQPEDGADGRLPSSARAGAGSGSSPGGQSPASGNVTGNSNSTFISSGQVM  
NFKGDIIVVYVSQTSQEGAAAAAEP MGRP VQEETLARRDSFAGNGPRFPDPCGGPEGLRE  
PEKASRPVQEQQGAKA

>sp|Q9HCJ0|TNRC6\_HUMAN Trinucleotide repeat-containing gene 6C protein OS=Homo sapiens GN=TNRC6C PE=1 SV=3

MATGSAQGNFTGHTKKTNGNNGTNGALVQSPSNQSALGAGGANSNGSAA RVWGVATGSSS  
GLAHCSVSGGDGKMDTMIGDGRSQNCWGASNSNAGINLNLNPNANPAAWPVLGHEGTVAT

GNPSSICSPVSAIGQNMGNQNGNPTGTLGAWGNLLPQESTEPQTSTSQNVSFSAQPQNLN  
TDGPNNNTNPMNSSPNPINAMQTNGLPNWGMVGMGAIIPPHLQGLPGANGSSVSQVSGGS  
AEGISNSVWGLSPGNPATGNSNSGFSQGNQDVTNSALSAKQNGSSSAVQKEGSGGNAWDS  
GPPAGPGLAWGRSGNGVGNHSGAWGHPSRSTSNVNGEWGKPPNQHSNDINGKGS  
TGWESPSVTSQNPTVQPGGEHMNSWAKAASSGTTASEGSSDGSNGHNEGSTGREGTGEGR  
RRDKGIIDQGHILPRNDLDPRVLSNTGWGQTPVKQNTAWEFEESEPRSERKNDNGTEAWG  
CAATQASNSGGKNDGSIMNSTNTSSVSGWVNAPPAVPANTGWGDSNNKAPSGPGVWGD  
ISSTAVSTAAAASGHAWSGAANQEDKSPTWGEPPKPKSQHWGDGQRSNPAWSAGGGDWA  
DSSSVLGLHDGKKNKSGWDADSNRSGSGWNDTTRSGNSGWGNSNTKANPGTNWGETLK  
PGPQQNWASKPQDNNVSNWGAASVKQTGTGWIGGPVPVKQKDSSEATGWEEPPPSIRR  
KMEIDDGTSAGWDPNSYNNKTVNMWDRNNPVIQSSTTTNTTTTTTTTTTSNTTHRVP  
HQAQTQLNRSPLLPGRKVSSEGMPNVHSTENSWGEPSPSTLVDNGTAAGKPPSS  
GSGWGDHPAEPVAFGRAGAPVAASALCKPASKSMQEGWGS GGDEMNLSTSQWEDEEGDV  
WNNASQESTSSCSSWGNAPKKGLQKGMKTSKGQDEAWIMSRLIKQLTDMGFPREPAAEA  
LKSNNMNLDAQMSALLEKKVDVKRGLGVTDHNGMAAKPLGCRPPISKESVDRPTFLDK  
DGGLVEEPTPSPFLPSPSLKLPLSHSALPSQALGGIASGLGMQNLN SSRQIPSGNLGMFG  
NSGAAQARTMQPPPPVQPLNSSQPSLRAQVPQFLSPQVQAQLLQFAAKNIGLNPALLT  
SPINPQHMTMLNLQYLQLLAYQRLQIQQMLQAQRNVSGSMRQQEQQVARTITNLQQQIQ  
QHQRLAQALLVKQPPPPPPPHLSLHPSAGKSAMDSFSPHPQTPGLPDLQTKQQSSPN  
TFAPYPLAGLNPNNMNVNSMDMTGGLSVKDPSQSQRLPQWTHPNSMDNLPSAASPLEQNP  
SKHGAIPGGLSIGPPGKSSIDDSYGRYDLIQNSESPASPPVAVPHSWRAKSDSDKISNG  
SSINWPPEFHPGVWKLQNDIPENDPDVTPGVSPTGPTINTTIQDVNRYLLKSGGKLS  
IKSTWSSGPTSHTQASLSHELWKVPRNSTAPTRPPGLTNPKPSSTWGASPLGWTSSYSS  
GSAWSTDTSGRSSWLVLRLNTPQIDGSTLRTLCLQHGLITFHLNLTQGNVVRYSKE  
EAAKAQKSLHMCVLGNTTILAEFAGEEEVNRFLAQGQALPPTSSWQSSASSQPRLSAAG  
SSHGLVRSDAGHWNAPCLGGKGSSELLWGGVPQYSSSLWGPPSADDSRVIGSPTPLTLL  
PGDLLSGESL

>sp|Q07011|TNR9\_HUMAN Tumor necrosis factor receptor superfamily member 9 OS=Homo sapiens  
GN=TNFRSF9 PE=1 SV=1

MGNSCYNIVATLLLVLNFERTSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQR  
TCDICRQCKGVFRTRKECSSTSNAECDCTPGFHC LGAGCSMCEQDCKQGQELTKKGCKDC  
CFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPARE  
PGHSPQIISFFLALTSTALLFLFFLTLRFSVVKRGRKKLLYIFKQPFMRPVQTTQEEDG  
CSCRFPEEEEGGCEL

>sp|Q9H0E2|TOLIP\_HUMAN Toll-interacting protein OS=Homo sapiens GN=TOLLIP PE=1 SV=1

MATTVSTQRGVPVYIGELPQDFLRITPTQQQRQVQLDAQAAQLQYGGAVGTVGRNLNITVV  
QAKLAKNYGMTRMDPYCRLRLGYAVYETPTAHNGAKNPRWNKVIHCTVPPGVDSFYLEIF  
DERAFSMDRIAETHITIPESLRQGVKVEDKWYLSGRQGDDKEGMINLVMSYALLPAAMV  
MPPQPVVLMPTVYQQGVGYVPI TGMPAVCSPGMVPVALPPAAVNAQPRCSEEDLKAIQDM  
FPNMDQEVIRSVLEAQRGNKDAAINSLQMGEEP

>sp|O60784|TOM1\_HUMAN Target of Myb protein 1 OS=Homo sapiens GN=TOM1 PE=1 SV=2

MDFLLGNPFSSPVGQRIEKATDGSLSQSEDWALNMEICDIINETEEGPKDALRAVKKRIVG  
NKNFHEVMLALTVLETCVKNCGRHFHVLVASQDFVESVLVRTILPKNNPPTIVHDKVLNL  
IQSWADAFRSSPDLTGVVITYEDLRRKGLEFPMTDLMLSPIHTPQRTVFNSETQSGQDS

VGTDSSQQEDSGQHAAPLPAPPILSGDTPIAPTPEQIGKLRSELEMVSGNVRVMSEMLTE  
LVPTQAEPADLELLQELNRTCRAQQRVLELIPQIANEQLTEELLIVNDNLNNVFLRHER  
FERFRTGQTTKAPSEAEPAADLIDMGPDAATGNLSSQLAGMNLGSSSVRAGLQSLEASG  
RLEDEFDMFALTRGSSLADQRKEVKYEAPQATDGLAGALDARQQSTGAIPVTQACLMEI  
EQWLSTDVGNDAEPPKGVTSSEFDKFLEERAKAADRLPNLSSPSAEGPPGPPSGPAPRKK  
TQEKDDDMLFAL

>sp|Q9NS69|TOM22\_HUMAN Mitochondrial import receptor subunit TOM22 homolog OS=Homo sapiens GN=TOMM22 PE=1 SV=3

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDEELDETLSERLWGLTEMFPERVR  
SAAGATFDLSLFVAQKMYRFSRAALWIGTTSFMILVLPVVFETEKLMQEQQQQLQQRQIL  
LGPNTGLSGGMPGALPSLPGKI

>sp|O14656|TOR1A\_HUMAN Torsin-1A OS=Homo sapiens GN=TOR1A PE=1 SV=1

MKLGRAVLGLLLLAPSVVQAVEPISLGLALAGVLTGYIYPRLYCLFAECCGQKRSLSREA  
LQKDLDDNLFGQHLAKKIILNAVFGFINNPKPKPLTSLHGWGTGKNFVSKIIAENIY  
EGGLNSDYVHLFVATLHFPHASNITLYKDQLQLWIRGNVSACARSIFIFDEMDKMHAGLI  
DAIKPFLDYDLDVGVSYQKAMFIFLSNAGAERITDVALDFWRSGKQREDIKLDIEHAL  
SVSVFNNKNSGFWHSSSIDRNLIDYFVPFLPLEYKHLKMCIRVEMQSRGYEIDEDIVSRV  
AEEMTFFPKEERVFSKCKTVFTKLDYDD

>sp|Q96NM4|TOX2\_HUMAN TOX high mobility group box family member 2 OS=Homo sapiens GN=TOX2 PE=2 SV=2

MQQTRTEAVAGAFSRCLGFCGMRLGLLLLARHWCIAGVFPQKFDGDSAYVGMSDGNPELL  
STSQTYNGQSENNEDYEIPPITPPNLPEPSLLHLGDHEASYHSLCHGLTPNGLLPAYSYQ  
AMDLP AIMVSNMLAQDSHLLSGQLPTIQEMVHSEVAAYDSGRPGPLGRPAMLASHMSAL  
SQSQLISQMGISSIAHSSPPGSKSATPSPSSSTQEESEVHFKISGEKRPSADPGKK  
AKNPKKKKKKDPNEPQKPVSAALFFRDTQAAIKGNPSATFGDVSKI VASMWDSL GEEQ  
KQSSPDQGETKSTQANPPAKMLPPKQPMYAMPGLASFLTPSDLQAFRSGASPASLARTLG  
SKSLLPGLSASPPPPPSFPLSPTLHQQLSLPPHAQGALLSPPVSMSPAPQPPVLPTMAL  
QVQLAMSPSPGPQDFPHISEFPSSSGSCSPGPSNPTSSGDWDSSYPSGECGISTCSLLP  
RDKSLYLT

>sp|Q6P589|TP8L2\_HUMAN Tumor necrosis factor alpha-induced protein 8-like protein 2 OS=Homo sapiens GN=TNFAIP8L2 PE=1 SV=1

MESFSSKSLALQAEKKLSKMAGRSVAHLFIDETSSEVLDELYRVSKEYTHSRPQAQRVI  
KDLIKVAIKVAVLHRNGSFGPSELALATFRQKLRQGAMTALSFGVDFTFEAAVLAGLL  
TECRDVLELVEHHLTPKSHGRIRHVFDFHSDPGLLTALYGPDTQHLGKICDGLRKLLD  
EGKL

>sp|P00750|TPA\_HUMAN Tissue-type plasminogen activator OS=Homo sapiens GN=PLAT PE=1 SV=1

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPV  
LRSNRVEYCWCNSGRAQCHSVPVKSCSEPRCFNGGTCQALYFSDFVCQCPEGFAGKCCE  
IDTRATCYEDQGISYRGTWSTAESGAECTNWNSSALAQKPYSGRPD A IRLGLGNHNYCR  
NPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWN  
SMILIGKVYTAQNPSAALGLGKHNYCRNPDGAKPWCHVLKNRRLTWEYCDVPSCSTCG  
LRQYSQPQFRIKGLFADIASHPWQA A IFAKHRRSPGERFLCGGILISSCWILSAAHCFQ  
ERFPPHHLTVILGRTYRVVPGEQQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCA  
QESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQH

LLNRTVTDNMLCAGDTRSGGPQANLHDACQGDSGGPLVCLNDGRMTLVGIIISWGLGCGQK  
DVPGVYTKVTNYLDWIRDNMRP

>sp|Q7Z392|TPC11\_HUMAN Trafficking protein particle complex subunit 11 OS=Homo sapiens  
GN=TRAPPC11 PE=1 SV=2

MSPTQWDFPVELCCRPMFVTLTGLDVVYNNAVHRAVWDAFCANRRADRVPI SFKVLPGDH  
EYPKCRPKRTSYEWYIPKGILKTGWMNKHNLVLPALVVVFYELDWDEPQWKEKQSECATR  
VEIVRQSLQGRNTKVAVVLIQKKTPLPPGEDVIASERAAALCNACELSGKSLFVLPHTDH  
LVGYIIRLENAFYEHAQTYYYTEIRRVKSHKEFLNKTTHQLLFVRHQFKIAFFSELKQDT  
QNALKNYRTAYNLVHELRAHETNILEIKTMAGFINYKICRLCFQHNTPLDAIAQFRKHID  
LCKKKIGSAELSFEHDAWMSKQFQAFGDLFDEAIKLGLTAIQTQNPGFYYQQAAYYAQER  
KQLAKTLCNHEASVMYPNDPLETQTGVLD FYGQRSWRQGILSFDLSDEPEKEKVGILATQ  
LKERNVVHSEIIITLLSNAVAQFKKYKCPMKSHLMVMQGEYYYYAKDYTKALKLLDYVM  
CDYRSEGWWTLLTSVLTALKCSYLMAQLKDYITYSLELLGRASTLKDDQKSRIEKNLIN  
VLMNESPDPEPCDILAVKTAQKLWADRI SLAGSNIFTIGVQDFVPFVQCKAKFHAPSFH  
VDVPVQFDIY LKADCPHIPRFSKLCVSFNNQEYNQFCVIEEASKANEVLENLTQGKMCLV  
PGKTRKLLFKFVAKTEDVGKKIEITSVDLALGNETGRCVVLNWQGGGDAASSQEALQAA  
RSFKRRPKLPDNEVHWDSEII IQASTMII SRVPNISVHLLHEPPALTNEMYCLVTVQSHE  
KTQIRDVKLTAGLKPGQDANLTQKTHVTLHGTELCDESYALLTDIPVGD LHPGEQLEKM  
LYVRCGTVGSRMFLVYVSYLINTTVEEKEIVCKCHKDETVTIETVFPFDVAVK FVSTKFE  
HLERVYADIPFLMTDLLSASPWALTIVSSELQLAPSMTTVDQLESQVDNVILQTGESAS  
ECFCLQCPSLGNIEGGVATGHYIISWKRTSAMENIPIITTVITLPHVIVENIPLHVNADL  
PSFGRVRESLPVKYHLQNKTDLVQDVEISVEPSDAFMFSGLKQIRLRILPGTEQEMLYNF  
YPLMAGYQQPLPSLNINLLRFPNFTNQLLRRFIPTSI FVKPQGRLMDDTSIAAA

>sp|Q9UL33|TPC2L\_HUMAN Trafficking protein particle complex subunit 2-like protein  
OS=Homo sapiens GN=TRAPPC2L PE=1 SV=1

MAVCIAVIAKENYPLYIRSTPTENELKFHYMVHTSLDVVDEKISAMGKALVDQRELYLGL  
LYPTEDYKVYGYVTNSKV KFMVVDSSNTALRDNEIRSMFRKLHNSYTDVM CNPFYNPGD  
RIQSSRAFDNMVTSMMIQVC

>sp|O15533|TPSN\_HUMAN Tapasin OS=Homo sapiens GN=TAPBP PE=1 SV=1

MKSLSLLLAVALGLATAVSAGPAVIECW FVEDASGKGLAKRPGALLLRQGPGEPPPRPDL  
DPELYLSVHDPAGALQA AFRRYPRGAPAPHCMSRFVPLPASAKWASGLTPAQNCPRALD  
GAWLMVSISSPVLSSLLRPQPEPQQEPVLITMATVVLTVLTHTPAPRVRLGQDALLDL  
SFAYMPPTSEAASSLAPGPPPFGLEWRRQHLKGHLLAATPGLNGQMPAAQEGAVAFAA  
WDDDEPWGPWTGNGTFWLP RVQPQFQEGTYLATIHLPYLQGGVTL ELAVYKPPKVS LMPAT  
LARAAPGEAPPELLCLVSHFYPSGGLEVEWELRGPGGRSQKAEGQRWLSALRHHS DGSV  
SLSGHLQPPPVTTEQHGARYACRIHHPSLPASGRSAEVTLEVAGLSGPSLEDSVGLFLSA  
FLLLGLFKALGWAAVYLSTCKDSKKKAE

>sp|Q5T6R2|TPT2L\_HUMAN Putative phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase  
TPTE2P1 OS=Homo sapiens GN=TPTE2P1 PE=5 SV=1

MPAAFPCVFPQSLQVFPQMIVKVWEKQSLPLPGLRGSPVERLYLPRNELDNPHKQKAWK  
IYPPEFAVEILFGMVSVD SLLFVLSSPHWWHLAQGSFWMSEGGFSLCHPGWSVVAQSLL  
TSTSAFCVRAILLPQPPE

>sp|P56180|TPTE\_HUMAN Putative tyrosine-protein phosphatase TPTE OS=Homo sapiens GN=TPTE  
PE=2 SV=3

MNESPDPTDLAGVIIELGPNDSPQTSEFKGATEEAPAKESPHTSEFKGAARVSPISSEVL  
ARLSKFEVEDAENVASYDSKIKKIVHSIVSSFAFGLFGVFLVLLDVTILADLIFTDSKL  
YIPLEYRSISLAIALFFLMDVLLRVFVERRQQYFSDLFNILDTAIIVILLVVDVVIFFD  
IKLLRNIPRWTHLLRLLRLIILLRIFHLFHQKRQLEKLIRRRVSENKRRYTRDGFDLDT  
YVTERIIAMSPSSGRQSFYRNPIKEVVRFLDKKHRNHRYVYNLCSERAYDPKHFHNRV  
RIMIDHDNVPTLHQMVVFTKEVNEWMAQDLENIVAIHCKGGTDRTGTMVCAFLIASEICS  
TAKESLYYFGERRTDKTHSEKFQGVKTPSQKRYVAYFAQVKHLYNWNLPPIRILFIKHFI  
IYSIPRYVRDLKIQIEMKKVVFSTISLGKCSVLDNITDKILIDVFDGLPLYDDVKVQF  
FYSNLPTYDNCSEFYFWLHTSFIENNRLYLPKNELDNLHKQKARRIYPSDFAVEILFGEK  
MTSSDVVAGSD

>sp|Q9UBN6|TR10D\_HUMAN Tumor necrosis factor receptor superfamily member 10D OS=Homo sapiens GN=TNFRSF10D PE=1 SV=1

MGLWGQSVPTASSARAGRYPGARTASGTRPWLLDPKILKFVVFIVAVLLPVRVDSATIPR  
QDEVPPQTVAPQQRRSLKEEECPAGSHRSEYTGACNPCTEGVDYTIASNNLPSCLLCTV  
CKSGQTNKSSCTTTRDTCVQCEKGSFQDKNSPEMCRTCRGTCPRGMVKVSNCTPRSDIKC  
KNESAASSTGKTPAAEETVTTILGMLASPYHYLIIIVVLVIIILAVVVVGFSCRKKFISYL  
KGICSGGGGPERVHRVLFRRRSCPSRVPGAEDNARNETLSNRYLQPTQVSEQEIQGQEL  
AELTGVTVESPEEPQRLLEQAEAEQCRRRLLPVNDADSADISTLLDASATLEEGHAKE  
TIQDQLVGSEKLFYEEDEAGSATSCL

>sp|Q9UI30|TR112\_HUMAN Multifunctional methyltransferase subunit TRM112-like protein OS=Homo sapiens GN=TRMT112 PE=1 SV=1

MKLLTHNLLSSHVRGVGSRGFPLRLQATEVRICPVEFNPNFVARMIPKVEWSAFLEAADN  
LRLIQVPKGPVEGYEENEFLRTMHLLLEVEVIEGTLQCPESGRMFPISRGIPNMLLSE  
EETES

>sp|Q969Z4|TR19L\_HUMAN Tumor necrosis factor receptor superfamily member 19L OS=Homo sapiens GN=RELT PE=1 SV=1

MKPSLLCRPLSCFLMLLPWPLATLTSTTLWQCPPGEEPDLDPGQGTLCRPCPPGTFSAAW  
GSSPCQPHARCSLWRRLEAQVGMATRD TLCGDCWPGWFGWGPVPRVPCQPCSWAPLGTHG  
CDEWGRARRRGVEVAAGASSGGETRQPGNGTRAGGPEETAQYAVIAIIPVFCLMGLLGI  
LVCNLLKRKGYHCTAHKEVGP GPGGGSGINPAYRTEDANEDTIGVLVRLITEKKENAAA  
LEELLKEYHSKQLVQTSHPVSKLPAPPNVPHICPHRHHLHTVQGLASLSGPCCSRCSQ  
KKWPEVLLSPEAVAATTPVPSLLPNPTRVPKAGAKAGRQGEITILSVGRFRVARIQRT  
SSMVSEVKTITEAGPSWGDLPDSPQGPLPEQQALLGSGGSRTKWLKPPAENKAEENRYV  
VRLSESNLVI

>sp|A6NDI0|TR49B\_HUMAN Putative tripartite motif-containing protein 49B OS=Homo sapiens GN=TRIM49B PE=2 SV=1

MNSGILQVFQRELICPICMNYFIDPVTIDCGHSFCRPCFYLNWKDSPFLVQCSECTKSTG  
QINLKTNIHFKKMASLARKVSLWFLSSEEQMCQTHRETKMFCEVDRSLLCLLCSSSQE  
HRDHRHCPIESAAEEHQEKLLQKMQSLWEKACENHRNLNVETTRTRCWKDYNLRLEAIR  
AEYQKMPAFHHEEEKHNLEMLKKKGKDI FHRHLHLSKAKMAHRREILRGMYEELNEMCHKP  
DVELLQAFGDILHRSESVLLHMPQPLNPESAGPITGLRDLNQRVHITLHHEEANSDI  
FLCEILRSMCIGCDHQDVPYFTATPRSFLAWGAQTFTSGKYYWEVHVGDSWNWAFGVCNM  
YWKEKNQNEKIDGEDGLFLGCVKNDIQRSLFTTSPLLLQYIPRPTSRVGLFLDCEAKTV  
SFVDVNQSSLIYTIPNCSFSPPLRPIFCCIHF

>sp|Q15628|TRADD\_HUMAN Tumor necrosis factor receptor type 1-associated DEATH domain protein OS=Homo sapiens GN=TRADD PE=1 SV=2

MAAGQNGHEEWGSAYLFEVSSLDKVVLSDAYAHPQQKVAVYRALQAALAESGGSPDVLQ  
MLKIHRSDPQLIVQLRFCGRQPCGRFLRAYREGALRAALQRSLAAALQHSVPLQLELRA  
GAERLDALLADEERCLSCILAQQPDRLRDEELAELEDALRNLCGSGARGGDGEVASAPL  
QPPVPSLSEVKPPPPPPPAQTFLFQGGPVVNRPLSLKDQQTFARSVGLKWRKVGRSLQRG  
CRALRDPALDSLAYEYEREGLYEAFQLLRRFVQAEGRRATLQRLVEALEENELTS LAED  
LLGLTDPNGGLA

>sp|Q15629|TRAM1\_HUMAN Translocating chain-associated membrane protein 1 OS=Homo sapiens GN=TRAM1 PE=1 SV=3

MAIRKKSTKSPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLP  
ATEEQATESVSLYYGYIKDLATVFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSHKFN  
ESGQLSAFYLFACVWGTFILISENYISDPTILWRAYPHNMTFQMKFFYISQLAYWLHAF  
PELYFQKTKKEDIPRQLVYIGLYLFHAGAYLLNHLGLVLLVLHYFVEFLFHISRLFY  
FSNEKYQKGFSLWAVLFLVLRLLTLILSVLTVGFGLARAENQKLDSTGNFNLAVRIAV  
LASICVTQAFMMWKFINFQLRRWREHSFAFQAPAVKKKPTVTKGRSSKKGTENGVTLS  
NVADSPRNKKEKSS

>sp|O15016|TRI66\_HUMAN Tripartite motif-containing protein 66 OS=Homo sapiens GN=TRIM66 PE=2 SV=4

MARNCECKEKRAAHILCTYCNRWLCSSCTEEHRHSPVPGGPFPPRAQKGS PGVNGGPGD  
FTLYCPLHTQEVLKLCFETCDMLTCHSCLVVEHKEHRCRHVEEVLQNQRMLLEGVTTQVA  
HKKSSLQTSAKQIEDRIFEVKHQHRKVENQIKMAKMVLMNELNKQANGLIEELEGITNER  
KRKLEQQLQSIMVLNRQFEHVQNFINWAVCSKTSVPFLFSKELIVFQMQRLLETSCNTDP  
GSPWSIRFTWEPNFWTKQLASLGCITTEGGQMSRADAPAYGGLQGSSPFYQSHQSPVAQQ  
EALSHPSHKFQSPAVCSSSVCCSHCSPVSPSLKGQVPPPSIHPAHSFRQPPMVPQQLGS  
LQCSALLPREKELACSPHPKLLQPWLETQPPVEQUESTSQRLGQQLTSQPVCIVPPQDVQ  
QGAHAQPTLQTPSIQVQFGHHQKLKLSHFQQQPQQQLPPPPPLPHPPPPLPPPQQPHP  
PLPPSQHLASSQHESPPGPACSQNMDIMHHKFELEEMQKDLELLQAQQPSLQLSQT KSP  
QHLQQTIVGQINYIVRQPAPVQSQSQEETLQATDEPPASQGSKPALPLDKNTAAALPQAS  
GEETPLSVPPVDSTIQHSSPNVVRKHSTSLSIMGFSNTLEMLSSTRLERPLEPQIQSVS  
NLTAGAPQAVPSLLSAPPKMVSSLTSVQNNQAMPSLTTSHLQTVPSLVHSTFQSMPNLISD  
SPQAMASLASDHPQAGPSLMSGHTQAVPSLATCPLQSI PPVSDMQPETGSSSSSGRTSGS  
LCPRDGADPSLENALCKVKLEEPINLSVKKPPLAPVVSTALQQYQNPKECENFEQGAL  
ELDAKENQSIRAFNSEHKIPYVRLERLKICAASSGEMPVFKLPQKNDQDGSFLLIIECG  
TESSMSIKVSQDRLSEATQAPGLEGRKVTVTSLAGRPPEVEGTSPEEHLIPRTPGAK  
KGPPAPIENEDFCVCLNGGELLCCDRCPKVFHLSCHVPALLSFPGGEWVCTLCRSLTQP  
EMEYDCENACYNQPMRASPGLSMYDQKKCEKLVLSLCCNNLSLPFHVPVSPLARHYQI  
IKRPMDSLIIRRKLQKQDPAHYTTPEEVVSDVRLMFWNCAKFNPDPSEVAEAGRCLEVFF  
EGWLKEIYPEKRFAQPRQEDSDSEEVSSSESGCSTPQGFPPPYMQEGIQPKRRRRHMENE  
RAKMSFRLANSISQV

>sp|Q15643|TRIPB\_HUMAN Thyroid receptor-interacting protein 11 OS=Homo sapiens GN=TRIP11 PE=1 SV=3

MSSWLGGGLGSLGQSLGQVGGSLASLTGQISNFTKDMLMEGTEEVEAELPDSRTKEIEAI  
HAILRSENERLKKLCTDLEEKHEASEIQIKQQSTSYRNQLQQKEVEISHLKARQIALQDQ

LLKLQSAAQSVPSGAGVPATTASSSFAYGISHHPSAFHDDDMDFGDI ISSQQEINRLSNE  
VSRLESEVGHWRHIAQTSKAQGTDNDSQSEICKLQNI IKELKQNRSEIDDHQHEMSVLQ  
NAHQKQLTEISRHRHEELSDYEERIEELENLLQQGGSGVIETDLSKIYEMQKTIQVLQIE  
KVSTKKMEQLEDKIKDINKKLSSAENDRDILRREQEQLNVEKRQIMEECENLKLECSKL  
QPSAVKQSDTMTEKERILAQASVEEVFRLQQALSDAENEIMRLSSLNQNDSLAEDNLKL  
KMRIEVLKEKESLLSQEKEELQMSLLKLNNEYEVIKSTATRDISLDELHDLRLNLEAKE  
QELNQSISEKETLIAEIEELDRQNQEATKHMILIKDQLSKQQNEGDSIISKLKQDLNDEK  
KRVHQLLEDDKMDITKELDVQKEKLIQSEVALNDLHLTKQKLEDKVENLVDQLNKSQESNV  
SIQKENLELKEHIRQNEEELSRI RNELMQSLNQDSNSNFKDTLLKEREAEVRNLKQNLSE  
LEQLNENLKKVAFDVKMENKLVLACEDVRHQLEECLAGNNQLSLEKNTIVETLKMEKGE  
IEAELCWAKKRLLLEANKYEKTIIEELSNARNLNTSALQLEHEHLIKLNQKKDMEIAELKK  
NIEQMDTDHKETKDVLSSSLEEKQLTQLINKKEIFIEKLERSSKLQEELDKYSQALRK  
NEILRQTIEEKDRSLGSMKEENNHLQEELERLREEQSRTAPVADPKTLDVTELASEVSQ  
LNTIKEHLEEEIKHHQKIIEDQNKSKMQLLQSLQEQQKEMDEFQRYQHEQMNATHTQLFLE  
KDEEIKSLQKTIEIKTQLHEERQDIQTDNSDIFQETKVQSLNIENGSEKHDLSKAETER  
LVKGIKERELEIKLLNEKNISLTKQIDQLSKDEVGKLTQIIQQKDLEIQALHARISSTSH  
TQDVVYLQQQLQAYAMEREKVFAVLNEKTRENSHLKTEYHKMMDIVAAKEAALIKLQDEN  
KKLSTRFESSGQDMFRETIQNLSRIIREKDIEIDALSQKCQTLLAVLQTSSTGNEAGGVN  
SNQFEELLQERDKLKQQVKKMEEWKQQVMTTVQNMQHESAQLQEELHQLQAQVLVSDNN  
SKLQVDYTGILQSYEQNETKLKNFGQELAQVQHSIGQLCNTKDLLGKLDIISPQLSSAS  
LLTPQSAECLRAKSEVLSESELQLEELRKSLEKDATIRTLQENNHRLSDSIAAT  
SELERKEHEQTDSEIKQLKEKQDVLQKLLKEKDLLIKAKSDQLSSNENFTNKVNEELL  
RQAVTNLKERILILEMDIGKLKGENEKIVETYRGKETEQALQETNMKFSMMLREKEFEC  
HSMKEKALAFEQLLKEKEQGKTGELNQLLNAVKSMQEKTVVFQQERDQVMLALKQKQMEN  
TALQNEVQRLRDKFRSNQELERLRNHLLESEDSYTREALAAEDREAKLRKKVTVLEEKL  
VSSSNAMENASHQASVQVESLQEQLNVVSKQRDETALQLSVSQEVKQYALSLANLQMV  
EHFQQEEKAMYSAELEKQKQLIAEWKKAENLEGKVISLQECLDEANAALDSASRLTEQL  
DVKEEQIEELKRQNELRQEMLDDVQKKLSLANSSSEGKVDKVLMRNLFIGHFHTPKNQ  
RHEVLRLMGSILGVRREEMEQLFHDDQGGVTRWMTGWLGGGSKVPNTPLRPNQQSVVNSSF  
SELFVKFLETESHPSIPPPKLSVHDMKPLDSPGRRKRDTNAPESFKDTAESRSGRRTDVN  
PFLAPRSAAVPLINPAGLPGPGPHLLLPISDVLPTFTPLPALPDNSAGVVLDLLKQ

>sp|Q629K1|TRIQQ\_HUMAN Triple QxxK/R motif-containing protein OS=Homo sapiens GN=TRIQQ  
PE=3 SV=1

MGRKDAATIKLPVDQYRKQIGKQDYKKTPILRATKLKAEAKKTAIGIKEVGLVLAAILA  
LLLAFFYAFFYLRLTTDVPDLQDED

>sp|Q9UET6|TRM7\_HUMAN Putative tRNA (cytidine(32)/guanosine(34)-2'-O)-methyltransferase  
OS=Homo sapiens GN=FTSJ1 PE=1 SV=2

MGRTSKDKRDVYYRLAKENGWRARSFAKLLQLDKEFQLFQGVTRAVDLCAAPGSWSQVLS  
QKIGGQSGHVAVDLQAMAPLPGVVQIQGDITQLSTAKEIIQHFKGCPADLVVCDGAPD  
VTGLHDVDDEYMQAQLLLAALNIATHVLKPGGCFVAKIFRGRDVTLLYSQLQVFFSSVLCA  
KPRSSRNSSIEAFVQCQGYDPPEGFIPDLSKPLLDHSYDPDFNQLDGPTRIIVPFVTCGD  
LSSYSDRSYPLDLEGGSEYKYPPTQPPISPPYQEAETLKRKGQLAKEIRPQDCPISRV  
DTFPQPLAAPQCHTLAPEMEDNEMSCSP



>sp|Q9UBP6|TRMB\_HUMAN tRNA (guanine-N(7)-)-methyltransferase OS=Homo sapiens GN=METTL1  
PE=1 SV=1

MAAETRNAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDSELYPEFFAPLTQN  
QSHDDPKDKKEKRAQAQVEFADIGCYGGLLVELSPLFPDTLILGLEIRVKVSDYVQDRI  
RALRAAPAGGFQNIACLRSNAMKHLPNFFYKGQLTKMFFLPDPHFKRTKHKWRIISPTL  
LAEYAYLVRVGGVLYTITDVLELHDWMCTHFEEHPLFERVPLEDLSEDPVVGHGTSTEE  
GKKVLRNGGKNFPAIFRRIQDPVLQAVTSQTSPLPGH

>sp|O95900|TRUB2\_HUMAN Probable tRNA pseudouridine synthase 2 OS=Homo sapiens GN=TRUB2  
PE=1 SV=1

MGSAGLSRLHGLFAVYKPPGLKWKHLRDTVELQLLKGLNARKPPAPKQVRVFLGPMEGS  
EEKELTLTATSVPSFINHPLVCGPAFAHLKVGVGHRDLAQASGVLVGVGHGCRLTDMY  
NAHLTKDYTVRGLLGKATDDFREDGRLVEKTTYDHTVREKLDRLAVIQGSHQKALVMYS  
NLDLKTQEAYEMAVRGLIRPMNKSPLITGIRCLYFAPPEFLLEVQCMHETQKELRKLH  
EIGLELKTAVCTQVRRTDGGFTLDSALLRTQWDLTNIQDAIRAATPQVAEELEKSLSP  
GLDTKQLPSPGWSWDSQGPSSTLGLERGAGQ

>sp|Q8WU66|TSEAR\_HUMAN Thrombospondin-type laminin G domain and EAR repeat-containing  
protein OS=Homo sapiens GN=TSPEAR PE=2 SV=2

MSALLSLCFVLPLAAPGHGTQGWEPCTDLRPLDILAEVPSDGSIRIVQVHGARGLQ  
LSVAAPRTMSFPASRIFSQCDFPEEFSIVVTLRVPNLPPKRNEYLLTVVAEESDLLLLG  
LRLSPAQLHFLFLREDTAGAWQTRVSFRSPALVDGRWHTLVLAVSAGVFSLTDCGLPVD  
IMADVPPATLSVKGARFFVGSRRRAKGLFMGLVRQLVLLPGSDATPRLCPSRNAPLAVL  
SIPRVLQALTGKPEDNEVLKYPYETNIRVTLGPQPCTEVEDAQFWFDASRKGLYLCVGN  
EWVSVLAAKERLDYVEEHQNLSTNSETLGIEVFRIPQVGLFVATANRKATSAVYKWTEEK  
FVSYQNIPTHQAWRHFTIGKKIFLAVANFEPDEKGQEFVYKWSHRKLKFTPYQSIA  
THSARDWEAFEVDGEHFLAVANHREGDNHNIDSVIYKWNPATRLFEANQTIATSGAYDWE  
FFSVGPYSFLVVANTFNGTSTKVHSHLYIRLLGSFQLFQSFTFGAADWEVVFQIGERIFL  
AVANSHSYDVEMQVQND SYVINSVIYELNVTAAQFVKFQDILTCSALDWEFFSVGEDYFL  
VVANSFDGRTFSVNSIIYRWQGYEGFVAVHSLPTVGC RDWEAFSTTAGAYLIYSSAKEPL  
SRVLRRLRTR

>sp|Q9BZW7|TSG10\_HUMAN Testis-specific gene 10 protein OS=Homo sapiens GN=TSGA10 PE=1  
SV=1

MMRSRSKSPRRPSPTARGANCDVELLKTTRDREELKCMLEKYERHLAEIQGNVKVLKSE  
RDKIFLLYEQAQEEITRLRREMMKSKSPKSTAHAILRRVETERDVAFTDLRRMTTERD  
SLRERLKIAQETAFNEKAHLEQRIEELECTVHNLDDEMEQMSNMTLMKETISTVEKEMK  
SLARKAMDTESELGRQKAENNSLRLLYENTEKDLSDTQRHLAKKYLQLTQEKIMCLDE  
KIDNFRQNIAQREEISILGGTLNDLAKEKECLQACLDKKSENIASLGESLAMKEKTISG  
MKNI IAEMEQASRQCTEALIVCEQDVSRRMRQLDETNDLAQIARERDILAHNDNLQEQ  
FAKAKQENQALSKKLNTHNELNDIKQKVQDTNLEVNKLKNILKSEESNRQMMEQLRKA  
NEDAENWENKARQSEADNNTLKLELITAEAEGNRLKEKVDLSNREVEQHLNAERSYKSQI  
STLHKS VVKMEELQKVQFEKVSALADLSSTREL CIKLDSSKELLNRQLVAKDQEIEMRE  
NELDSAHS EIELLSQMANERISMQNLEALLVANRDKEYQSQIALQEKES EIQLLKEHLC  
LAENKMAIQSRDVAQFRNVVTQLEADLDITKRQLGTERFERERAVQELRRQNYSSNAYHM  
SSTMKPNTKCHSPERAHHRSPDRGLDRSLEENLCYRDF

>sp|Q6ZSZ6|TSH1\_HUMAN Teashirt homolog 1 OS=Homo sapiens GN=TSHZ1 PE=1 SV=2

MPPRRKQQAPRRSAAYVPEELKAAEIDEEHVEDDGLSLDIQESEYMCNEETEIKEAQS YQ  
NSPVSSATNQDAGYGS PFSESSDQLAHFKGSSSREEKEDPQCPDSVSY PQDSLAIKAVY  
ANLFSESCWSSLALDLKSGSTSTNDASQKESSAPTPTPPTCPVSTTGPTTSTPSTSCS  
SSTSHSSTTSTSSSSGYDWHQAALAKTLQQTSSYGLLPEPSLFSTVQLYRQNNKLYGSVF  
TGASKFRCKDCSAAYDTLVELTVHMETGHYRDDNRDKDSEKTKRWSKPRKRSLEMEGK  
EDAQKVLKCMYCGHSFESLQDLSVHMIKTKHYQKVPLKEPVPAITKLPSTKKRALQDLA  
PPCSPEPAGMAAEVALSES AKDQKAANPYVTPNNRYGYQNGASYTWQFEARKAQILKME  
CGSSHDTLQQLTAHMMVTGHFLKVTT SASKKGKQLVLDPVVEEKIQSIPLPPTTHTRLPA  
SSIKKQPDSPAGSTTSEEKKEPEKEKPPVAGDAEKIKEESED SLEKFEPSTLYPYLREED  
LDDSPKGGLDILKSLENTVSTAISKAQNGAPSWGGYPSIHAAYQLPGTVKPLPAAVQSVQ  
VQPSYAGGVKSLSSAEHNALLHSPGSLTPPHKSNVSAMEELVEKVTGKVNIKKEERPPE  
KEKSSLAKAASPIAKENKDFPKTEEVSGKPQKKGPEAETGKAKKEGPLDVHTPNGTEPLK  
AKVTNGCNNLGIIMDHSPEPSFINPLSALQSIMNTHLGKVS KPVSPSLDPLAMLYKISNS  
MLDKPVYPATPVKQADAIDRYYYENSDQPIDLTKSKNKPLVSSVADSVASPLRESALMDI  
SDMVKNLTGRLTPKSSTPSTVSEKSDADGSSFEALDELSPVHKRKGQSNWN PQHLLIL  
QAQFASSLRETTEGKYIMSDLGPQERVHISKFTGLSMTTISHWLANVKYQLRRTGGTKFL  
KNLDTGHPVFFCNDCASQFRTASTYISHLETHLGFS LKDL SKLPLNQIQEQQNVSKVLTN  
KTLGPLGATEEDLGSTFQCKLCNRTFASKHAVKLHLSKTHGKSPEDHLIYVTELEKQ

>sp|POC672|TSN19\_HUMAN Putative tetraspanin-19 OS=Homo sapiens GN=TSPAN19 PE=5 SV=1

MLRNNKTII IKYFLNLINGAFLVLGLLFMGFGAWLLDRNNFLTAFDENNH FIVPISQIL  
IGMGSSTVLFCLLG YIGIHNEIRWLLIVYAVLITWTF AVQVVL SAFIITKKEEVQQLWHD  
KIDFVISEYGS KDKPEDITKWTILNALQKTLQCCGQHNYTDWIKNKNKENS GQVPCSTK  
STLRKWFCD EPLNATYLEGCENKISAWYNVNLTLIGINFGLLTSEVFQVSLTVCFFKNI  
KNIIHAEM

>sp|O60635|TSN1\_HUMAN Tetraspanin-1 OS=Homo sapiens GN=TSPAN1 PE=1 SV=2

MQCFSFIKTMMILFNLLIFLCGAALLAVGIWVSIDGASFLKIFGPLSSAMQFVNVGYFL  
IAAGVVVFALGFLG CYGAKTESKCALVTFFFILLIFIAEVAAAVVALVYTTMAEHFTL  
LVVPAIKKDYGSQEDFTQVWNTMKGLKCCGFTNYTDFEDSPYFKENSAFP PFCCNDNVT  
NTANETCTKQKAHDQKVEGCFNQLLYDIRTNAVTVGGVAAGIGGLELAAMIVSMYLYCNL  
Q

>sp|P35442|TSP2\_HUMAN Thrombospondin-2 OS=Homo sapiens GN=THBS2 PE=1 SV=2

MVWRLVLLALVWPSTQAGHQDKDTTFDLFSISINRKTIGAKQFRGPDGPVPAYRFVRF  
DYIPPVNADDLSKITKIMRQKEGFFLTAQLKQDGKSRGTL LALEGPGLSQRQFEIVSNGP  
ADTLDLTYWIDGTRHVVSLEDVGLADSQWKNVTVQVAGETYSLHVGCDLIDSFALDEPFY  
EHLQAEKSRMYVAKGSARESHFRGLLQNVHLVFENSVEDILSKKGCQGGQGA EINAISEN  
TETLRLGPHVTTEYVGPSSERRPEVCERSCEELGNMVQELSGLHVLVNQLSEN LKRVSN  
NQFLWELIGGPPKTRNMSACWQDGRFFAENETWVVDSC TTCTCKKFKTICHQITCPPATC  
ASPSFVEGECCPSCLHSVDGEEGWSPWAEWTQCSVTCGSGTQQRGRSCDVTSNTCLGPSI  
QTRACSLSKCDTRIRQDGGWSHWSPWSSCSVTCGVGNITRIRLCNSPVPQMGGKNCKGSG  
RETACQGAPCPIDGRWSPWSPW SACTVTCAGGIRERTRVCNSPEPQYGGKACVGDVQER  
QMCNKRSCPDVGCLSNPCFPGAQCSSFPDGSWSCGSCPVGFLGNGTHCEDLDECALVPDI  
CFSTSKVPRCVNTQPGFHCLPCPPRYRGNQPVGVGLEAAKTEKQVCEPENPCKDKTHNCH  
KHAECIYLGHFSDPMYKCECQTGYAGDGLICGEDSDLDGWPNLNLVCATNATYHC IKDNC  
PHLPNSGQEDFDKDIGDACDDDDNDGVTDEKDNCQLLFNPRQADYDKDEVGDRCDNCP

YVHNPAQIDTDNNGEGDACSVDIDGDDVFNERDNCPPYVNTDQRD TDGDGVGDHCDNCPL  
VHNPDQTDVDNDLVGDQCDNNEDIDDDGHQNNQDNCPIISNANQADHDRDGGQGDACDPDD  
DNDGVPDDRDNCRFLVFNPDQEDLDGDRGDI CKDDFDNDNIPDIDDVCPENNAISETDFR  
NFQMVPLDPKGTQIDPNWVIRHQGKELVQTANSDPGIAVGDFEFGSVDFSGTFYVNTDR  
DDDYAGFVFGYQSSSRFYVVMWKQVTQTYWEDQPTRAYGYSGVSLKVVNSTTGTGEHLRN  
ALWHTGNTPGQVRTLWHDPRNIGWKDYTAYRWHLTHRPKTGYIRVLVHEGKQVMADSGPI  
YDQTYAGGRLGLFVFSQEMVYFSDLKYECRDI

>sp|P30536|TSP0\_HUMAN Translocator protein OS=Homo sapiens GN=TSP0 PE=1 SV=3

MAPPWVPAMGFTLAPSLGCFVGSRFVHGEGLRWYAGLQKPSWHPHVLGPVWGTLYSAM  
GYGSYLWVKELGGFTEKAVVPLGLYTGQLALNWAWPPIFFGARQMGWALVDLLLVSGAAA  
ATTVAWYQVSPLAARLLYPYLAWLAFTTTLNYCVWRDNHGWGGRRLPE

>sp|Q01534|TSPY1\_HUMAN Testis-specific Y-encoded protein 1 OS=Homo sapiens GN=TSPY1 PE=1  
SV=4

MRPEGSLTYRVPERLRQGFCGVGRAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALG  
EEAVLLDDIMAEEVEVVAEEEGGLVERREEAQAQQAVPGPGPMTPEAPEELLAVQVELE  
PVNAQARKAFSRQREKMERRRKPHLDRRGAVIQSVPGFWANVIANHPQMSALITDEDEDM  
LSYMSLEVGEKHPVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTPIEWYPD  
YEVEAYRRRHNSLNFNWFSDHNFAGSNKIAEILCKDLWRNPLQYYKRMKPPEEGTET  
SGDSQLLS

>sp|POCW01|TSPYA\_HUMAN Testis-specific Y-encoded protein 10 OS=Homo sapiens GN=TSPY10  
PE=3 SV=1

MRPEGSLTYRVPERLRQGFCGVGRAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALG  
EEAVLLDDIMAEEVEVVAEEEGGLVERREEAQAQQAVPGPGPMTPEALEELLA  
VQVELEPVNAQARKAFSRQREKMERRRKPHLDRRGAVIQSVPGFWANVIANHPQMSALIT  
DEDEDMLSYMVSLEVEEEKHPVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTP  
IEWYPDYEVEAYRRRHNSLNFNWFSDHNFAGSNKIAEILCKDLWRNPLQYYKRMKPP  
EEGTETSGDSQLLS

>sp|Q9BXA7|TSSK1\_HUMAN Testis-specific serine/threonine-protein kinase 1 OS=Homo sapiens  
GN=TSSK1B PE=1 SV=1

MDDAAVLKRGGYLLGINLGEFSYAKVKSAYSERLKFNVAIKIIDRKKAPADFLEKFLPRE  
IEILAMLNHCIIKTYEIFETSHGKVYIVMELAVQGDLELIKTRGALHEDEARKKFHQL  
SLAIKYCHDLDVHRDLKCDNLLDKDFNIKLSDFSFSKRCLRDDSGRMALSKTFCGSPA  
YAAPEVLQGIPYQPKVYDIWSLGVILYIMVCGSMPYDDSNIKMLRIQKEHRVNFPRSKH  
LTGECKDLIYHMLQPDVNRRLHIDEILSHCWMQPKARGSPSVAINKEGESSRGTEPLWTP  
EPGSDKKSATKLEPEGEAQPQAQPETKPEGTAMQMSRQSEILGFPSKPSTMETEEGPPQQ  
PPETRAQ

>sp|Q9H489|TSY26\_HUMAN Putative testis-specific Y-encoded-like protein 3 OS=Homo sapiens  
GN=TSPY26P PE=5 SV=1

MADKRAGTPEAAARPPLAREGDARTVPAARAREAGGRGSLHPAAGPGTAFPSPGRGEA  
ASTATPSLENGRVRDEAPETCGAEGLGTRAGASEKAEDANKEEGAIFKKEPAEEVEKQQ  
EGEEKQEVAAEAQEGPRLNLGALIVDPLEAIQWEAEAVSAQADRAYLPLERRFGRMHRL  
YLARRSFI IQNIPGFVWTAFLNHPQLSAMISPRDEDMCYLMNLEVRELHRSRTGCKFKF  
RFWSNPYFQNKVIVKEYECRASGRVVSIAIRIRWHWGQEPALVHRNRD TVRSFFSWFSQ  
HSLPEADRVAQIIKDDLWPNPLQYLLGDRPCRARGGLARWPTETPSRPYGFQSG

>sp|Q5SRH9|TT39A\_HUMAN Tetratricopeptide repeat protein 39A OS=Homo sapiens GN=TTC39A  
PE=2 SV=1

MGQKGHKDSLPCGGTPESSLHEALDQCMTALDLFTNQFSEALSYLKPRTKESMYHSLT  
YATILEMQAMMTFDPQDILLAGNMKEAQMCLCQRHRRKSSVTDSSFSSLVNRPTLGQFTEE  
EIHAEVCYAECLLQRAALTFLQGSSHGGA VRPRALHDP SHACSCPPGPGRQHLFLLQDEN  
MVSFIKGGIKVRNSYQTYKELDSLVSQSSQYCKGENHPHFEGGVKLGVGAFNLTL SMLPTR  
ILRLLEFVGFSGNKDYGLLQLEEGASGHSFRSVLCVMLLLCYHTFLTFLVLTGNVNIEEA  
EKLLKPYLNRYPKGAIFLFFAGRIEVIKGNIDAAIRRFEECEAAQHWKQFHMCYWELM  
WCFTYKQGWKMSYFYADLLSKENCWSKATYIYMKAAYLSMFGKEDHKPFGDDEVELFRAV  
PGLKLIAGKSLPTEKFAIRKSRRYFSSNPISLPVPALEMMYIWNQYAVIGKQPKLTDGI  
LEIITKAEEMLEKGPENEYSVDDDECLVKLLKGLCLKYLGRVQEAENFRSISANEKKIKY  
DHYLIPNALLELALLMEQDRNEEAIKLLES AKQNYKNYSMESRTHFRIQAATLQAKSSL  
ENSSRSMVSSVSL

>sp|Q8N584|TT39C\_HUMAN Tetratricopeptide repeat protein 39C OS=Homo sapiens GN=TTC39C  
PE=2 SV=2

MAGSEQQRPRRRDDGSDAAAAAAPLQDAELALAGINMLLNNGFRES DQLFKQYRNHSP  
LMSFGASFVSFLNAMMTFEEKMQ LACDDLKTEKLCESEEAGVIETIKNKIKKNVDVRK  
SAPSMVDRLQRQII IADCVYLAVLSFVKQEL SAYIKGGWILRKAWKIYNKCYLDINALQ  
ELYQKKLTEESLTS DAANDNHIVAEGVSEESNLRLKGA VSGYGLFHL CISMVPPNLLKI  
INLLGFP GDRLQGLSSLMYASESKDMKAPLATLALLWYHTVVRPFFALDGS DNKAGLDEA  
KEILLKKEAAYPNSSLFMFFKGRIQRLECQINSALTSFHTALELAVDQREIQHVCLYEIG  
WCSMIELNFKDAFDSFERLKNESRWSQCYAYLTAVCQGATGDVDGAQIVFKEVQKLFKR  
KNNQIEQFSVKKAEFRKQTPTKALCVLASIEVLYLWKALPNC SFPNLQRMSQACHEVDD  
SSVGLKYLLLGAIHKCLGNSEDAVQYFQRAVKDEL CRQNNLYVQPYAC YELGCLLLDKP  
ETVGRGRALLLQAKEDFSGYDFENRLHVR IHAALASLRELVPQ

>sp|Q8NEE8|TTC16\_HUMAN Tetratricopeptide repeat protein 16 OS=Homo sapiens GN=TTC16 PE=2  
SV=2

MTDSDDEDALKVDQGPSRDIPKPWVIPAPKGI LQHIFGTSHVFQ SICDVKPKVTGLTVPLK  
VREYYSRGQQCLEQADWETA VLLFSRALHLDPQLVDFYALRAEAYLQLCDFSSAAQNLRR  
AYSLQQDNCKHLERLTFVL YLQGQCLFEQCAFLDALNVFSHAAELQPEKPCFRYRCMACL  
LALKQHQA CLTLITNELKQDTTNADVYIFRARLYNFLQKPHLCYRDLHSALLNPKHPQA  
RMLLQKMVAQAQARQDAGILAVQGKLQHALQRINRAIENNPLDPSLFLFRGTM YRRLQE  
FDGAVEDFLKVLDMVTE DQEDMVRQAQRQLLLTYNDFAVHCYRQ GAYQEGVLLN KALRD  
EQQEKGLYINRGDCFFQLGNLAFEAADYQQALALSPQDEGANTRMGLLQEKMGFCEQRRK  
QFQKAENHFSTAIRNHPKAQYYLYRAKSRQLLQNI FGARQDVATVLLNPKQPKLSLLM  
TNLFPGMSVEEVLSTQIAHLARLQLEQMVEGSLQAGSPQGIVGMLKRHELERQKALALQH  
SWKQGEPLIATSEELKATPEIPQVKPGSSEGEAEAPEEEEKEKEKKEEKKSELIPSKVA  
SLSDSYLDQTSSASSMSFR TTGTSETMSAICQEYRSTSATAVTFSDS SLLKTQSSDSGN  
NREALSHGPRKIKATQGQRQSLSKTEPTQSQR RNSSKTKATIHKRNSSKTKATQSQR RN  
SKTRATQGQGQSSSKTEATQGQRQSSEIEATQGPRQEPSKTKTTRSPRQRPRKVKAAARG  
RSWRPSKVDATQGRSRGLLRSSTKTEAFYDSNWSLSKTEYAQGQGQRSSKAEGAQGSQG  
MSSTSSKAESTWGPPSLSKTEVDQDLTYYEAV

>sp|A2A3L6|TTC24\_HUMAN Tetratricopeptide repeat protein 24 OS=Homo sapiens GN=TTC24 PE=3  
SV=1

MSSPNPEDVPRRPEPEPSSSNKKKKKKRKL RQEASIQALTRAGHGALQAGQNHEALNNFQ  
RAFL LASKAPQTRDTPVLQACAFNLGAAYVETGDPARGLELLLR AHPEEKAQGRRHGDQC  
FNVALAYHALGELPQALAWYHRALGHYQPQGDQGEAWAKMGACYQALGQPELA AHCLQEA  
SQAYA QERQLRAAALALGAAAGCMLKSGRHRVGEVVQVLEKSRLAERSTERRLLGHLYN  
DLGLGYSQLQLFPLAVEAFLQALPLCWVPGEQATVLRNLGMAHNALGNYQEAREFHQKAA  
DLHGSVGQRWEQGRSFGSLAFALSQ LGDHKAARDNYLHALQAARDSGDMKGQWQACEGLG  
AAAARLGQYDQALKYYKEALACQCKEPDSVRERLVAKLADTVRTRLAQVGLVQTHTLTSA  
PGR LQAPGGASQAEGTPAKAGSSTAGVQHRSSSGWEDEEFEEGHQKKKEERSANVPVRAG  
PGRPELCFLPGTVNHSHLASSCPTFTKHTPCRGTVLGKASIYSPGPRAHLPFVGP GPPR  
AEYPSILVPNGPQANRSSRWPRESLSRSRQRRPME SGICTIV

>sp|Q8NA56|TTC29\_HUMAN Tetratricopeptide repeat protein 29 OS=Homo sapiens GN=TTC29 PE=2  
SV=2

MTTLPPLPMTRPKLTALARQKLPCSSRKIPRSQ LIKEKDDIDHYLEVNFKGLSKEEVAAY  
RNSYKKNICVDMLRDGYHKSFTELFALMERWDALREAAVRSLFWLQKPLEEQPKLDYL  
YHYLTRAEDAERKESFEDVHNLYALACYFNNS EDKWVRNHFYERCFKIAQLIKIDCGKK  
EAEAHMHMGLLYEEDGQLLEAAEHYEA FHQLTQGRIWKDETGRSLNLLACESLLRTYRLL  
SDKMLENKEYKQAIKILIKASEIAKEGSDKKMEAEASYYLGLAHLAAEEYETALTVLDTY  
CKISTDLDDDLSLGRGYEAIKVLQSQGEMTEAIKYLKKFVKIARNNFQSLDLVRASTML  
GDIYNEKGYYNKASECFQAFD TTVELMSMPLMDETKVHYGIKAHQMMLTVNNYIESAD  
LTS LNYLLSWKESRGNIEPDVPTVEEFRGSTVEAVSQNSERLEELSRFPGDQKNET

>sp|Q6PID6|TTC33\_HUMAN Tetratricopeptide repeat protein 33 OS=Homo sapiens GN=TTC33 PE=1  
SV=2

MASFGWKRKIGEKVSKVTSQQFEAEAADEKDVVDNDEGNWLHAIKRRKEILLEGCAE KSK  
QLKDEGASLAENKRYREAIQKWDEALQLTPNDATLYEMKSQVLM SLHEMFPAVHAAEMAV  
QQNPHSWESWQTLGRAQLGLGEIILAIRSFQVALHIYPMNPEIWKEDLSWARTLQEQQKV  
AQRIKKSEAPAEVTHFPSKIPDYDFESDEIVAVCAAIAEKEKTVSANKTMVIVSASGAI  
ETVTEKEDGATPPDGSVFIKAR

>sp|A6NLP5|TTC36\_HUMAN Tetratricopeptide repeat protein 36 OS=Homo sapiens GN=TTC36 PE=1  
SV=1

MGTPNDQAVLQAI FNPDPFPDGDIVGLDLGEEAEKEEREDEVFPPQAQLEQSKALELQGV M  
AAEAGDLSTALERFGQAICLLPERASAYNNRAQARRLQGDVAGALEDLERAVELSGGRGR  
AARQSFVQRGLLARLQGRDDDARRDFERAARLGSPFARRQLVLLNPYAALCNRLADMMG  
QLRRPRDSR

>sp|Q6PGP7|TTC37\_HUMAN Tetratricopeptide repeat protein 37 OS=Homo sapiens GN=TTC37 PE=1  
SV=1

MSSKEVKTALKSARDAIRNKEYKEALKHCKTVLKQEKNNYN AWVFIGVAAAELEQPDQAA  
SAYKAAAELEPDQLLAWQGLANLYEKYNHINAKDDLPGVYQKLLDLYESVDKQKWC DVCK  
KLVDLYYQEKKHLEVARTWHKLIKTRQE QGAENEELHQLWRKLTQFLAESTEDQNNETQQ  
LLFTAFENALGLSDKIPSEDHQLVYRHF IQSLSKFPHESARLKKACEGMINIYPTVQYPL  
EVLCLHLIESGNLTDEGQQYCCRLVEMDSKSGPGLIGLG IKALQDKKYEDAVRNLTEGLK  
ESPVCTSGWYHLAEAQVKMHRPKEAVLSCSQALKIVDNLGASGNSLYQRNLCLHLKAEAL  
IKLSDYDSSEEAI RTLDQISDADNIPGLLVKSLAYRNKGSFDEAAKIMEDLLSSYPDLA  
EVHALEALIHFTKKDYLQAEKCFQRALEK DTEVAEYHYQLGLTYWFMGEETRDKDKT KALT  
HFLKAARLDTYMGKVF CYLGHYIRDVVGDKNRARGCYRKAFELDDTDAESGAAAVDLSVE

LEDMEMALAILTTVTQKASAGTAKWAWLRRGLYYLKAGQHSQAVADLQAALRADPKDFNC  
WESLGEAYLSRGGYTTALKSFTKASELNPEISYVFKVAAIQQILGKYKEAVAQYQMI IK  
KKEDYVPALKGLGECHLMMAKALVDYLDGKAVDYIEKALEYFTCALQHRADV SCLWKLA  
GDACTCLYAVAPSKVNVHVLGVLLGQKEGKQVLKKNELLHLGGRCYGRALKMSTSNTWC  
DLGINYYRQAQHLAETGSNMNDLKELLEKSLHCLKKAVRLDSNNHLYWNALGVVACYSGI  
GNYALAQHCFIKSIQSEQINAVAWTNLGVLYLTNENIEQAHEAFKMAQSLDPSYLMCWIG  
QALIAEAVGSYDTMDLFRHTTELNMHTEGALGYAYWVCTTLQDKSNRETELYQYNILQMN  
AIPAAQVILNKYVERTIQNYAPFTMLGYLNEHLQLKKEAANAYQRAILLQTAEDQDTYN  
VAIRNYGRLLCSTGEYDKAIQAFKSTPLEVLEDIIGFALALFMKGLYKESSKAYERALS I  
VESEQDKAHILTALAIT EYKQGKT DVAKTLLFKCSILKEPTTESLQALCALGLAMQDATL  
SKAALNELLKHIKHKDSNYQRCLLTSATYALQGRSVAVQKQISKAVHSNPGDPALWSLLS  
RVVAQYAQRNAKGGVVAGNVAHILDSNHGKKALLYTAVNQLAMGSSSAEDEKNTALKTIQ  
KAALLSPGDPAIWAGLMAACHADDKLALVNNTQPKRIDLYLALLSAVSASIKDEKFFENY  
NQSLEKWSLSQAVTGLIDTGRISEAETLCTKNLKSNDQPAVILLRQVQCKPLLESQKP  
LPDAVLEELQKTVMNSSTVPAWQWLAHVYQSQGMRAEMCYRKSLLASQRGSWSGKL  
SSLLRLALLALKVCMANISNDHWPSLVQEATTEALKLCFCPLAVLLQALLQFKRKM GARE  
TRRLLERVVYQPGYPKSIASTARWYLLRHL YAKDDYELIDVLVNNAKTHGDTRALELNQR  
LSSQ

>sp|Q6P2S7|TTC41\_HUMAN Putative tetratricopeptide repeat protein 41 OS=Homo sapiens  
GN=TTC41P PE=5 SV=3

MSQKTNENVERYTQFLQKPQKPIQPYICSTLNDFQEERDFLANNIFPQLNELCNSWGTYF  
KAVDLSWSALKAPKSLPHTLFRQYSCLRSQRLKLCLDYVNSCFPFICMLGQTYGDFLPD  
YSHFMTSKVTRLSSLSKVENLYVAAKNGYPWVLENPSCSLTEFEIIQAAFLNESQFQYFY  
FRTGTTLLKALDDEKKGERLPSSSSTNEETLRIGKLKAKIISKGLPVRFYSDLHEL GEL  
VFKDWSVVI EKLHPATLMIENIDYKHSFERFYHEEFTEKCKQMCVISKESDRTFEILEKF  
ALKDVELDFNNVAADSSLDVPRFFRINPTPTYKSILLLSREHGCGKSTLIANWVNYFKK  
KHPSMLLIPHFVGSTCESSYIMSVIH YFITELQYRNYGTQLETDILNEDSDGLVFSFLVE  
VFIAISLKPILVLDGIEELIGIYGISGQVKVDFSWLPHSLSPHCKFIMSTVSSLSYK  
SLCARPDVRTVELISTGDEETKLNIFRKHLSIPMMDPFEQSTQALRKKPDL SPLKLTILA  
NELKEYRINHNEFQCMKEYLEAVSVQELWELVLKRWIEDYSWTFQPKRANSDTVASGEGL  
DSWVADALCLLCLSHGGLADELLQLLDMLGYRNHYKV TALHWA AFRNATKQWVQEKPNG  
LLYFWHQSLSAVEHKLLGVITPVESSPCSFQTPMNHKKTHFHQV LIRYFQRQTSFWRVYQ  
ELPWHMKMSGCLRGLCGFLSSPTITDFISKIQSLGFWTRLHLIHFWNVLEAGYDVSEAY  
LLSVAKIKADQCHTMRKSGTSLVLQCRLIELTVLDKCRLMFFIGSFLKFMGKTNEAEELF  
LSVEDMLVQSQSMTDMLLKVQNAIGELYLETGMTQEGFQYFQKAWSSMLRLSLSDLEDSR  
DLVKQKVRVLDNLAKSASEEYLKENHILEYATEISNLLDNNPRDQATMKYIEGVLMFVAG  
NTSLAKMKLRECLNIRKSLFGKKNMLVGEVMEFLADLLFFPQRDSKKSQRKQVLKYKQV  
IKIKENAETLAKSSLLRKQLSISLSDTLCKLAGHLLASDSCHVMI EAVGYLYRSVDLRV  
IHLGSSHSSIHGILHLLREIEWIRSRRYWPQGMSQQHSEGSRN GFSLWEHLVKLNYH  
SAQSSNTVSSAMCMNADKLHRARRMDLAPQTISDKSKCAPGKGKKKPIICISAE EKIQRK  
TQNNAEIWNGSGKEASKKKT DYSSNILSLGKMNGLIKLSRQRILLAKSES GEGEITTIYH  
HPLPWPVSTKNPGESEFISEKWL FHSPDYISISQKSFLQRR LHIETKLLKTSNDINKE

>sp|P33981|TTK\_HUMAN Dual specificity protein kinase TTK OS=Homo sapiens GN=TTK PE=1 SV=2  
MESEDLSGRELTIDSIMNKVRDIKNKFKNEDLTDELSLNKISADTTDNSGTVNQIMMMAN

NPEDWLSLLLKLEKNSVPLSDALLNKLIGRYSQAIEALPPDKYQNESFARIQVRFAELK  
AIQEPDDARDYFQMARANCKKFAFVHISFAQFELSQGNVKKSKQLLQKAVERGAVPLEML  
EIALRNLNLQKKQLLSEEEKKNLSASTVLTAEFSFSGSLGHLQNRNNSCDSRGQTTKARF  
LYGENMPPQDAEIGYRNSLRQTNKTKQSCPFGRVPVNLNSPDCDVKTDDSVVPCFMKRQ  
TSRSECRDLVVPKSPSGNDSCELRNLKSVQNSHFKEPLVSDEKSSELIITDSITLKNKT  
ESSLLAKLEETKEYQEPEVPESNQKQWQSKRKSECINQNPAASSNHWQIPELARKVNTEQ  
KHTTFEQPVFSVSKQSPPISTSKWFDPKSICKTPSSNTLDDYMSCFRTPVVKNDFPACQ  
LSTPYGQPACFQQQHQILATPLQNLQVLASSANECISVKGRIYSILKQIGSGGSSKVF  
QVLNEKKQIYAIKYVNLEEADNQLTDSYRNEIAYLNKLQQHSDKIIRLYDYEITDQYIYM  
VMECGNIDLNSWLKKKSIDPWERKSYWKNMLEAVHTIHQHGIVHSDLKPANFLIVDGML  
KLIDFGIANQMPPDTSVVKDSQVGTVNYMPPEAIKDMSSSRENGKSKSISPKSDVWSL  
GCILYYMTYGKTPFQQIINQISKLHAIIDPNHEIEFPDIPEKDLQDVLKCLCRDPKQRI  
SIPELLAHPYVQIQTHPVNQMAKGTTEEMKYVLGQLVGLNSPNSILKAAKTLYEHSYSGGE  
SHNSSSSKTFEKKRGKK

>sp|Q8N841|TTL6\_HUMAN Tubulin polyglutamylase TTL6 OS=Homo sapiens GN=TTL6 PE=1 SV=2

MPQCPTLESQEGENSEEKGDSSKEDPKETVALAFVRENPGAQNGLQNAQQQGGKKRKKKR  
LVINLSSCRYESVRRAAQQYGFREGGEDDDWTLYWTDYSVSLERVMEMKSYQKINHFPGM  
SEICRKDLLARNMSRMLKMFQKDFRFFPRTWCLPADWGLQTYSRSRKNKTYICKPDSGC  
QKGIFITRTVKEIKPGEDMICQLYISKPFIIDGFKFDLRIYVLVTSCDPLRIFVYNEGL  
ARFATTSYSRPCTDNLDDICMHLTNYSINKHSSNFSRDAHSGSKRKLSTFSAYLEDHSYN  
VEQIWRDIEDVIIKTLSAHPRIIRHNYHTCFPNHTLNSACFEILGFDILLDHKLKPWLLE  
VNHSPSFSTDSRLDKEVKDGLLYDTLVLINLESCDKKKVLEEERQRGQFLQCCSREMRI  
EEAKGFRAVQLKKTETYEKENCGGFRLIYPSLNSEKYEKFFQDNNSLFQNTVASRAREEY  
ARQLIQELRLKREKKPFQMKKKVEMQGESAGEQVRKKGMRGWQKQKQKDKAATQASKQY  
IQPLTLVSYTPDLLSVRGERKNETDSSLNQEAPTEEASSVFPKLTSAPFSSLPDLRNI  
NLSSSKLEPSKPNFSIKEAKSASAVNVFTGTVHLTSVETPESTTQLSISPSPPTLAVT  
ASSEYSGPETDRVVSFKCKKQQTTPHLLTQKKMLKSFLPTKSKSFWESPNTNWTLLKSDMN  
KPHLISELLTKLQSLGKLSFFPAHYNPKLGMNLSQNPSPGECRSRSDSSGEKRQLDVS  
SLLLQSPQSYNVTLRDLVIAIPAQLDPRPCRSHASAMRDPCMQDQEAYSHCLISGQKGC  
ERS

>sp|Q3SXZ7|TTL9\_HUMAN Probable tubulin polyglutamylase TTL9 OS=Homo sapiens GN=TTL9  
PE=2 SV=3

MVPSREALLGPGTTAIRCCKLQNNYKGHGLSKGKEREQRASIRFKTTLMNTLMDVLRH  
RPGWVEVKDEGEWDFYWCDSWLRENFHTYMEHVRIISHFRNHVELTRKNYMKNLKRF  
RKQLEREAGKLEAAKCDFFPKTFEMPCEYHLFVEEFRKNPGITWIMKPVARSQGKGIFLF  
RRLKDIVDWRKDRSSDDQKDDIPVENYVAQRYIENPYLIGGRKFDLRVYVLVMSVFAEC  
LLWSGHRRQDVHLTNVAVQKTSPTYHPKKGCKWTLQRFRQYLASKHGPEAVETLFRDIDN  
IFVKSLQSVQKVIISDKHCFELGYDILIDQDLKPWLLEVNASPLTASSQEDYELKTCL  
LEDTLHVVDMEARLTGREKRVGGFDLMWNDGPVSREEGAPDLSGMGNFVTNTHLGCVNDR  
KKQLRQLFCSLQVQKASS

>sp|Q9BTX7|TTPAL\_HUMAN Alpha-tocopherol transfer protein-like OS=Homo sapiens GN=TTPAL  
PE=1 SV=2

MSEEDSLRTSPSVASLSENELPPPEPPGYVCSLTEDLVTKAREELQEKPEWRLRDVQA  
LRDMVRKEYPNLSTSLDDAFLRLRARKFDYDRALQLLVNYHSCRRSWPEVFNNLKPSA

LKDVLASGFLTVLPHTDPRGCHVVCIRPDRWIPSNYPITENIRAIYLTLEKLIQSEETQV  
NGIVILADYKGVSLSKASHFGPFIAKKVIGILQDGFPIRIKAVHVVNEPRIFKGIFAIK  
PFLKEKIANRFFLHGSDDLNSLHTNLPRSILPKEYGGTAGELDTATWNAVLLASEDDFVKE  
FCQPVPACDSILGQTLLPEGLTSDAQCDSDLRAVKSQLYSCY

>sp|P26651|TTP\_HUMAN mRNA decay activator protein ZFP36 OS=Homo sapiens GN=ZFP36 PE=1  
SV=1

MDLTAIYESLLSLSPDVPVPSDHGGTESSPGWGSSGPWSLSPSDSSPSGVTSRLPGRSTS  
LVEGRSCGWVPPPPGFAPLAPRLGPELSPSPTSPTATSTTPSRYKTELCRTFSESGRCRY  
GAKCQFAHGLGELRQANRHPKYKTELCHKFYLGRCPPYGSRCHF IHNPSEDLAAPGHPPV  
LRQSI SFSGLP SGRRTSPPPPGLAGPSLSSSSFS PSSSPPPPGDLPLSPSAFSAAPGTPL  
ARRDPTPVCCPSCRRATPISVWGPLGGLVRTPSVQSLGSDPDEYASSGSSLGGSDSPVFE  
AGVFAPPQPVAAPRRLPIFNRI SVSE

>sp|Q6IBS0|TWF2\_HUMAN Twinfilin-2 OS=Homo sapiens GN=TWF2 PE=1 SV=2

MAHQGTGIHATEELKEFFAKARAGSVRLIKVVIEDEQLVLGASQEPVGRWDQDYDRAVLPL  
LDAQQPCYLLYRLDSQNAQGFEWLFLAWSPDNSPVRLKMLYAATRATVKKEFGGGHIKDE  
LFGTVKDDLSFAGYQKHLSSCAAPAL TSAERELQQIRINEVKTEISVESKHQTLQGLAF  
PLQPEAQRALQQLKQKMVNYIQMKDLERETIELVHTEPTDVAQLPSRVPRDAARYHFFL  
YKHTHEGDPLESVFIIYSMPGYKCSIKERMLYSSCKSRL LDSVEQDFHLEIAKKIEIGDG  
AELTAEFLYDEVHPKQHAFKQAFAPKPGGGKRGHKRLIRGPGENGDDS

>sp|Q9BY14|TX101\_HUMAN Testis-expressed sequence 101 protein OS=Homo sapiens GN=TEX101  
PE=2 SV=2

MGTPRIQHLLILLVLGASLLTSGLELYCQKGLSMTVEADPANMFNWTTEEVETCDKGALC  
QETILIIKAGTETAILATKGCIPGEEAITIVQHSSPPGLIVTSYSNYCEDSFCDKDSL  
SQWFEFSETTASTVSTTLHCPTCVALGTCFSAPSLPCPNGTTRCYQGKLEITGGGIESSV  
EVKGCTAMIGCRLMSGILAVGPMFVREACPHQLLTQPRKTENGATCLPIPVWGLQLLLPL  
LLPSFIHFS

>sp|Q9BXU2|TX13B\_HUMAN Testis-expressed sequence 13B protein OS=Homo sapiens GN=TEX13B  
PE=2 SV=1

MALRPEDPSSGFRHGNVVAFIIEKMARHTKGPEFYFENISLSWEEVEDKLRAILEDSEVP  
SEVKEACTWGSALGVRFAHRQGQLQNRVQWLQGFAKLHRSAAVLASNLTELKEQQEM  
ECNEATFQLQLTETSLAEVQRERDMLRWKLFHAELAPPQGGQATVFPGLATAGGDWTEG  
AGEQEKEA VAAAGAGGKEERYAEAGPAPAEVLQGLGGGFRQPLGAIVAGKLHLCGAEG  
ERSQVSTNSHVCLLWAWVHSLTGASSCPAPYLIHILIPMPFVRLLSHTQYTPFTSKGHRT  
GSNSDAFQLGGL

>sp|P07101|TY3H\_HUMAN Tyrosine 3-monooxygenase OS=Homo sapiens GN=TH PE=1 SV=5

MTPDATTPQAKGFRRRAVSELDKQAEAIMVRGQGAPGPSLTGSPWPGTAAPAASYTPTP  
RSPRFIGRRQSLIEDARKEREA VAAAAA V PSEPDPLEAVAFEEKEGKAVLNLLFSR  
ATKPSALSRAVKVFETFEAKIHHELETRPAQRPRAGGPHLEYFVRLEVRRGDLAALLSGVR  
QVSEDVRSPAGPKVPWFPRKVELDKCHHLVTKFDPDLDDHPGFSDQVYRQRRKLA EI  
AFQYRHGDPIPRVEYTAEEIATWKEVYTTKGLYATHACGEHLEAFALLERFSGYREDNI  
PQLEDVSRFLKERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCC  
HELLGHVPM LADRTFAQFSQDIGLASLGASDEEIEKLS TLYWFTVEFGLCKQNGEVKAYG  
AGLLSSYGELLHCLSEEPEIRAFDP EAAAVQPYQDQTYQSVYFVSESFDAKDKLRSYAS  
RIQRPF SVKFDPYTLAIDVLDSPQAVRRSLEGVQDELDTLAHALSAIG



>sp|HOYL09|U2Q2L\_HUMAN Putative ubiquitin-conjugating enzyme E2Q2-like protein OS=Homo sapiens GN=UBE2Q2L PE=5 SV=1

MGPAVLGGQGEGQPEARACSGLLQPPKRPIVFKEKLTMTDLSLMEEKLECSLWCCLSDPS  
IPGRCCVLERRIVPWWMQESYSSSSPIWSVDSDEPNLTSVLERLEDTKENSSVRKETKLF  
SLFLMNIIFRN

>sp|Q5XG85|U633C\_HUMAN Putative UPF0633 protein LOC554249 OS=Homo sapiens PE=5 SV=1

MRKLRLRASNPGPSGAPGTRRHFFSTRGGHHCARRWLRRVRRSRSQTPSCQNLDPNPPIA  
RFLPLERISEVPRRACLHGRDASSVWPPPERSD

>sp|Q9BSL1|UBAC1\_HUMAN Ubiquitin-associated domain-containing protein 1 OS=Homo sapiens GN=UBAC1 PE=1 SV=1

MFVQEEKIFAGKVLRLHICASDGAEWLEEATEDTSVEKLKERCLKHCAHGSLEDPKSITH  
HKLIIHAASERVLS DARTILEENIQDQDVLLLIKRAPSPLPKMADVSAEEKKKQDQKAPD  
KEAILRATANLPSYNDRAAVQTNMRDFQTELKILVSLIEVAQKLLALNPDAVELFKKA  
NAMLDEDEDERVDEAALRQLTEMGFPENRATKALQLNHMSVPQAMEWLEHAEDPTIDTP  
LPGQAPPEAEGATAAASEAAAGASATDEEARDELTEIFKKIRRKREFRADARAVISLMEM  
GFDEKEVIDALRVNNNQNAACEWLLGDRKPSPEELDKGIDPDSPLFQAILDNPVVQLGL  
TNPKTLAFEDMLNPLNSTQWMNDPETGPVMLQISRIFQTLNRT

>sp|Q8TB05|UBAD1\_HUMAN UBA-like domain-containing protein 1 OS=Homo sapiens GN=UBAD1 PE=2 SV=1

MSVNMDELKHQVMINQFVLTAGCAADQAKQLLQAAHWQFETALSAFFQETNIPYSHHHHQ  
MMCTPANTPATPPNFPDALTMFSRLKASESFHSGGSGSPMAATATSPPPHFPHAATSSSA  
ASSWPTAASPPGGPQHHQPPLWTPPTPPSPASDWPLAPQQATSEPRAPAMEAER

>sp|POCG47|UBB\_HUMAN Polyubiquitin-B OS=Homo sapiens GN=UBB PE=1 SV=1

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYN  
IQKESTLHLVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLI  
FAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKA  
KIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGC

>sp|P62256|UBE2H\_HUMAN Ubiquitin-conjugating enzyme E2 H OS=Homo sapiens GN=UBE2H PE=1 SV=1

MSSSPSPGKRRMDTDVVKLIESKHEVTILGGLNEFVVKFYGPQGTPYEGGVWKRVDLPDK  
YPFKSPSIGFMNKIFHPNIDEASGTVCLDVINQWTALYDLTNIFESFLPQLLAYPNPID  
PLNGDAAAMYLRPEEYKQKIKEYIQKYATEEALKEQEEGTGDSSESSMSDFSEDEAQD  
MEL

>sp|Q16763|UBE2S\_HUMAN Ubiquitin-conjugating enzyme E2 S OS=Homo sapiens GN=UBE2S PE=1 SV=2

MNSNVENLPPIHRLVYKEVTTLADPPDGIKVFPNEEDLTDLQVTIEGPEGTPYAGGLF  
RMKLLLKGDFPASPPKGYFLTKIFHPNVGANGEICVNVLRDWTAEIGIRHVLLTIKCLL  
IHPNPESALNEEAGRLLLENYEEYAARARLLTEIHGGAGGPSGRAEAGRALASGTEASST  
DPGAPGGPGAEGPMAKKHAGERDKKLAAKKKTDKKRALRRL

>sp|Q96B02|UBE2W\_HUMAN Ubiquitin-conjugating enzyme E2 W OS=Homo sapiens GN=UBE2W PE=1 SV=1

MASMQKRLQKELLALQNDPPPGMTLNEKSVQNSITQWIVDMEGAPGTLYEGEKFQLLFKF  
SSRYPFDSPQVMFTGENIPVHPHVYSNGHICLSILTEDWSPALSVQSVCLSIISMLSSCK  
EKRRPPDNSFYVRTCNKNPKTKWYHDDTC

>sp|Q7Z6J8|UBE3D\_HUMAN E3 ubiquitin-protein ligase E3D OS=Homo sapiens GN=UBE3D PE=1 SV=2

MAASAAETRVFLEVRGQLQSALLILGEPKEGGMPMNISIMPSSLQMKTEGCTEIQLPAE  
VRLVPSSCRGLQFVVGDLHLRLQTQAKLGTKLISMFNQSSQTQECCTFYCQSCGEVLIK  
DRKLLRVLPLPSENWGALVGEWCCHPDPFANKSLHPQENDCFIGDSFFLVNLRSLWQQR  
PELSPVEMCCVSSDNHCKLEPKANTKVICKRCKVMLGETVSSETTKFYMTETIIQSSERS  
FPIIPRSWFVQSVIAQCLVQLSSARSTFRFTIQGQDDKVYILLWLLNSDSLVIESLRNSK  
YIKKFPLENTFKADSSSAWSAVKVLYQPCIKSRNEKLVSLWESDISVHPLTLPSATCLE  
LLLILSKSNANLPSSLRRVNSFQVAFMKM

>sp|O14562|UBFD1\_HUMAN Ubiquitin domain-containing protein UBFD1 OS=Homo sapiens GN=UBFD1  
PE=1 SV=2

MAAAGAPDGMEEPMDTEAETVATEAPARPVNACLEAEAAAAGAAAEDSGAARGSLQPAPAQ  
PPGDPAAQASVNGEDAGGGAGRELVDLKI IWNKTKHDVKFPLDSTGSELKQKIHSITGL  
PPAMQKVMYKGLVPEDKTLREIKVTSGAKIMVVGSTINDVLAVNTPKDAAQQDAKAEENK  
KEPLCRQKQHRKVLDKGKPEDVMPSVKGAQERLPTVPLSGMYNKS GSGKVRLTFKLEQDQL  
WIGTKERTEKLPMSIKNVVSEPIEGHEDYHMAFQLGPTEASYWVYVWPTQYVDAIKD  
TVLGKWQYF

>sp|O95164|UBL3\_HUMAN Ubiquitin-like protein 3 OS=Homo sapiens GN=UBL3 PE=1 SV=1

MSSNPADMINLRLILVSGKTEFLFSPNDSASDI AKHVYDNWPMDEEEQVSSPNILRL  
IYQGRFLHGNVTLGALKLPFGKTTVMHLVARETLPEPNSQGQRNREKTGESNCCVIL

>sp|Q6ZU65|UBN2\_HUMAN Ubinuclein-2 OS=Homo sapiens GN=UBN2 PE=1 SV=2

MAEPRRVAFISLSPVRRREAEPYGPPEPEYPREPPRLEPQPYREPARAEPPAPREPAPR  
SDAQPPSREKPLPQREVSRAEPPMSLQREPPRPEPPPPFPPLPLQPPPPRESASRAEQPP  
RPPRETVRLELVLDPTDESCVEFSYPELLLCGEQRKKLIHTEDPFNDEHQRQEVEMLA  
KKFEMKYGGKPRKHKRDLQDLIDIGFGYDETDPFIDNSEAYDELVPASLTTKYGGFYIN  
TGTLQFRQASDTEEDDITDNQKHKPKVPKIKEDDIEMKKRKRKEEGEKEKKPRKKVPKQ  
LGVVALNSHKSEKKKKRYKDSLSLAAMIRKFQKEKDALKKESNPKVPVTLSTPSLNKPPC  
AAAALGNDVPDLNLSSGDPDLPIFVSTNEHELFQEAENALEMLDDFDFDRLLDAASDGSP  
LSESGGENTTTQPTYTSQVMPKVVPTLPEGLPVLLEKRIEDLRVAAKLFDEEGRKKFFT  
QDMNNILLDIELQLQELGPVIRSGVYSHLEAFVPCNKETLVKRLKKLHLNVQDDRLREPL  
QKLKLAVSNVMPEQLFKYQEDCQARSQAKCAKLQTEEREKNGSEDDDEKPGKRVIGPR  
KKFHWDDTIRTLLCNLVEIKLGCYELEPNKSQAEDYLKSFMETEVKPLWPKGWMQARML  
FKESRSVHNHLSAPAKKKVIPAPKPKVKEVMVKTLP LHSFPTMLKECSPKKDQKTPTSL  
VASVSGPPTSSSTAIAAASSSSAPAQETICLDDSLDEDLSFHSPSLDLVSEALAVINNG  
NKGPPVGSRI SMPTTKPRPGLREEKLASIMSKLPLATPKKLDSTQTTHSSSLIAGHTGPV  
PKKPQDLAHTGISSGLIAGSSI QNPKVSLEPLPARLLQQGLQRSSQIHTSSSSQTHVSSS  
SQAQIAASSHALGTSEAQDASSLTQVTKVHQHSAVQQNYVSPLQATISKSQTNPVVKLSN  
NPQLSCSSSLIKTSDKPLMYRLPLSTPSPGNGSQGSHPLVSRTVPSTTTSSNYLAKAMVS  
QISTQGFKSPFSMAASPKLAASPKPATSPKPLPSPKPSASPKPSLSAKPSVSTKLISKSN  
PTPKPTVSPSSSSPNALVAQGSSTNSPVHKQPSGMNISRQSPTLNLPSRTSGLPPT  
KNLQAPSKLTNSSSTGTVGKNSLSGIAMNVPASRGSNLNSSGANRTSLSGGTGSGTQGAT  
KPLSTPHRPSTASGSSVVTASVQSTAGASLLANASPLTLMTSPLSVTNQNVTPFGMLGGL  
VPVTMPFQFPLEIFGFGTDTAGVTTTSGSTSAAFHHSLTQNLKGLQPGGAQHAATLSHS  
PLPAHLQQAFHDGGQSKGDTKLPRKSQ

>sp|Q9Y4E8|UBP15\_HUMAN Ubiquitin carboxyl-terminal hydrolase 15 OS=Homo sapiens GN=USP15  
PE=1 SV=3

MAEGGAADLDLTQRSDIATLLKTSLRKGDWYLVDSRWFKQWKYVGFDSWDKYQMGDQNV  
YPGPIDNSGLLDGDAQSLKEHLIDELDYILLPTEGWNKLVSWYTLMEGQEPIARKVVEQ  
GMFVKHCKVEVYLTELKLCENGMNNVVTRRFKADTIDTIEKEIRKIFSIPDEKETRLW  
NKYMSNTFEPLNKPSTIQDAGLYQGQVLVIEQKNEDGTWPRGPSTPKSPGASNFSTLPK  
ISPSSLSNNYNNMNNRNVKNSNYCLPSYTAYKNYDYSEPGRNNEQPGLCGLSNLGNTCFM  
NSAIQCLSNTPPLTEYFLNDKYQEELNFDNPLGMRGEIAKSYAELIKQMWSGKFSYVTPR  
AFKTQVGRFAPQFSGYQQQDCQELLAFLLDGLHEDLNRIRKKPYIQLKDADGRPDKVVAE  
EAWENHLKRNDIIVDIFHGLFKSTLVCPECAKISVTFDPFCYLTPLPMKKERTLEVYL  
VRMDPLTKPMQYKVVVPKIGNILDCTALSALSGIPADKMIVTDIYNHRFHRIFAMDENL  
SSIMERDDIYVFEININRTEDTEHVIIIPVCLREKFRHSSYTHHTGSSLFGQPFLMAVPRN  
NTEDKLYNLLLLRMCYVKISTETEETEGSLHCKDQNINGNGPNGIHEEGSPSEMETDE  
PDDESSQDQELPSENENSQSEDSVGGDNDSENGLCTEDTCKGQLTGHHKRLFTFQFNNLG  
NTDINYIKDDTRHIRFDDRQLRLDERSFLALDWDPLKKRYFDENAAEDFEKHESVEYKP  
PKKPFVKLKDCIELFTTKEKLGAECPWYCPNCKEHQATKKLDLWSLPPVLVHVKRFSY  
SRVMRDKLDLTVDFPINDLDMSEFLINPNAGPCRYNLIIVSNHYGGMGGGHYTAFAKNKD  
DGKWWYFDDSSVSTASEDQIVSKAAYVLFYQRQDTFSGTGFFPLDRETKGASATGIPLE  
SDEDSNDNDNDIENENCMHTN

>sp|Q9Y5T5|UBP16\_HUMAN Ubiquitin carboxyl-terminal hydrolase 16 OS=Homo sapiens GN=USP16  
PE=1 SV=1

MGKKRTKGKTVPIDDSSETLEPVCRHIRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDK  
AEEETEEKPSVWLCLKCGHQGGRNSQEQHALKHYLTTPRSEPHCLVSLDNWSVWCYVCD  
NEVQYCSSNLGQVVDYVRKQASITTPKPAEKDNGNIELENKKLEKESKNEQEREKKENM  
AKENPPMNSPCQITVKGLSNLGNTCFFNAVMOQLSQTPVRLLEKVKMSGTIVKIEPPD  
LALTEPLEINLEPPGPLTLAMSQFLNEMQETKKGVVTPKELFSQVCKKAVRFKGYQQQDS  
QELLRYLLDGMRAEEHQVRVSKGILKAFGNSTEKLDEELKNVKDYEKKKSMPSFVDRIFG  
GELTSMIMCDQCRTVSLVHESFLDLSLPVLDQSGKKSVDNKNLKKTVDEDEDQDSEEEKD  
NDSYIKERSDIPSGTSKHLQKKAKKQAKKQAKNQRQKQIKGKVLHLNDICTIDHPEDSE  
YEAEMSLQGEVNIKSNHISQEGVMHKEYCVNQDLNGQAKMIESVTDNQKSTEEVDMKNI  
NMDNDLEVLTSSPTRNLNGAYLTEGSNGEVDISNGFKNLNLNAALHPDEINIEILNDSHT  
PGTKVYEVVNEDPETAFTLANREVFNTDECSIQHCLYQFTRNEKLRDANKLLCEVCTRR  
QCNGPKANIKGERKHVYTNAKQMLISLAPPVLTLLKRFQQAGFNLKVNKHIFPEIL  
DLAPFCTLCKNVAEENTRVLYSLYGVEHSGTMRSGHYTAYAKARTANSHLSNLVLHGD  
IPQDFEMESKGQWFHISDTHVQAVPTTKVLNSQAYLLFYERIL

>sp|Q9UPT9|UBP22\_HUMAN Ubiquitin carboxyl-terminal hydrolase 22 OS=Homo sapiens GN=USP22  
PE=1 SV=2

MVSRPEPEGEAMDAELAVAPPGCSHLGSFKVDNWKQNLRAIYQCFVWSGTAEARKRKAKS  
CICHVCGVHLNRLHSCLYCVFFGCFTKKHIEHAKAKRHNLAIDLMYGGIYCFQCQDYIY  
DKDMEIIAKEEQRKAWKMQGVGEKFSTWEPTKRELELLKHNPKRKITSNCTIGLRGLIN  
LGNTCFMNCIVQALHTPLLRDFFLSDRHRCMQSPSSCLVCEMSSLFQEFYSGHRSPHI  
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FTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNVNGESHVSGTT  
TLTDCLRRFTRPEHLGSSAKIKCSGCHSYQESTKQLTMKKLPVACFHLKRFESAKLRR

KITTYVSFPLELDMTPFMASKE SRMNGQYQQPTDSLNNDNKYSLFAVNVHQGTLES GHY  
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>sp|Q9UHP3|UBP25\_HUMAN Ubiquitin carboxyl-terminal hydrolase 25 OS=Homo sapiens GN=USP25  
PE=1 SV=4

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GITDEEQAISRVLEASIAENKACLKRTPT EVWRDSRNPYDRKRQDKAPVGLKNV GNTCWF  
SAVIQSLFNLLEFRRLVLNYPKPSNAQDLPRNQKEHRNLPFMRELRYL FALLVGT KRKYV  
DPSRAVEILKD AFSNDSQQQDVSEFTHKLLDWLEDAFQMKAEETDEEKPKNPMVELFY  
GRFLAVGVLEGKKFENTEMFGQYPLQVNGFKDLHECLEAAMIEGEIESLHSENSGKSGQE  
HWFTELPVLT FELSRFEFNQALGRPEKIH NKLEFPQVLYLD RYMHRNREITRIKREEIK  
RLKDYLTVLQQR LERYLSYSGSPKRFP LVDVLQYALEFASSKPVCTSPVDDIDASSPPSG  
SIPSQTL PSTTEQQGALSSELPSTSPSSVAAISSRSVIHKPFTQSRIPDLP MHPAPRHI  
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GQANAGHYWAYIFDHRESRWMKYNDIAVTKSSWHEELVRDSFGGYRNASAYCLMYINDKAQ  
FLIQEEFNKETGQPLVG IETLPPDLRDFVEEDNQRF EKELEEWDAQLAQKALQEKL LASQ  
KLRESETSVTTAAAGDPEYLEQPSRSDFSKHLKEETIQIITKASHEHEDKSPETVLQSA  
IKLEYARLVKLAQEDTPPETDYRLHHVVVYFIQNPAPKKIIEKTLLEQFGDRNLSFDERC  
HNIMKVAQAKLEM IKPEEVNLEEYEEWHQDYRKFRETTMYLIIGLENFQRESYIDSLLFL  
ICAYQNNKELLSKGLYRGHDEELISHYRRECLLKLNEQAAELFESGEDREVNNGLIMNE  
FIVPFLPLLLVD EMEEKDILAVEDMRNRWCSYLGQEMEPHLQEKL TDFLPKLLDCSMEIK  
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>sp|P35125|UBP6\_HUMAN Ubiquitin carboxyl-terminal hydrolase 6 OS=Homo sapiens GN=USP6  
PE=1 SV=2

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LKNPGRYQIMKERGKRSSEIH HIDL DVRTTLRNHVFFRDRYGAKQRELFYILLAYSEYN  
PEVGYCRDL SHITALFLLYLPEEDAFWALVQLLASERHSLPGFHSPNGGTVQGLQDQ QEH  
VVPKSQPKTMWHQDKEGLCGQCASLGCLLRNLIDGISLGLTLRLWDVYLVEGEQVLMPI T  
SIALKVQQKRLMKTSRCGLWARLRNQFFDTWAMNDDTVLKH LRASTKKLTRKQGDLP PPA  
KREQGSLAPRPVPASRGGKTLCKGYRQAPPGPPAQFQRPIC SASPPWASRFSTPCPGGAV  
REDTYPVGTGQVPSLALAQGGPQGSWRFL EWKSMPRLPTDLDIGGPWFPHYDFEWSWVR  
AISQEDQLATCWQAEHCGEVHNKDMSWPEEMSFTANSSKIDRQKVPTEKGATGLSNLGNT  
CFMNSSIQCVSNTQPLTQYFISGRHLYELNRTNPIGMKGHMAKCYGDLVQELWSGTQKSV  
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VAAEAWDNHLRRNRSIIVDLFHGQLRSQVKCKTCGHISVRFPFNFLSLPLPMDSYMDLE  
ITVIKLDGTT PVR YGLRLNMD EKYTG LKKQLRDL CGLNSEQILLAEVHDSNIKNFPQDNQ  
KVQLSVSGFLCAFEIPVPSSPISASSPTQIDFSSSPSTNGMFTLT TNGDLPKPIFIPNGM  
PNTVVP CGTEKNFTNGMVNGHMPSLPDSPFTGYIIAVHRKMMRTELYFLSPQENRPSLFG  
MPLIVPCTVHTRKKDLYDAVWIQVSWLARPLPPQEAS IHAQDRDNCMGYQYPFTLRVVQK  
DGNSCAWCPQYRFCRGCKIDCGEDRAFI GNAYIAVDWHPTALHLRYQTSQERVVDKHESV  
EQSRRQAEPINLDSCLRAFTSEELGESEMYCYCKTHCLATKKLDLWRLPPFLI IHL  
KRFQFVNDQWIKSQKIVRFLRESFDPSAFLVPRDPALCQHKPLTPQGDELSKPRILAREV  
KKVDAQSSAGKEDMLLSKSPSSLSANISSSPKGSPPSSSRKSGTSCPSSKNSSPNSSPRTL

GRSKGRLRLPQIGSKNKPSSSKNLDASKENGAGQICELADALSRGHMRGGSQPELVTPQ  
DHEVALANGFLYEHEACNGCGDGYSGQLGNHSEEDSTDDQREDTHIKPIYNLYAISCH  
SGILSGGHYITYAKPNCKWYCYNDSSCEELHPDEIDTDSAYILFYEQQGIDYAQFLPKI  
DGKKMADTSSTDEDESSEYKYSMLQ

>sp|P15374|UCHL3\_HUMAN Ubiquitin carboxyl-terminal hydrolase isozyme L3 OS=Homo sapiens  
GN=UCHL3 PE=1 SV=1

MEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMDPELLSMVPRPVCVALLLPITE  
KYEVRTEEEEEKIKSQGQDVTSSVYFMQQTISNACGTIGLIHAIANNKDKMHFESGSTLK  
KFLEESVSMSPPEARARYLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHL  
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>sp|Q6NT89|TRNP1\_HUMAN TMF-regulated nuclear protein 1 OS=Homo sapiens GN=TRNP1 PE=2 SV=2  
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SAGAAEDQELQRWRQGASGIAGLAGPGGGSGAAAGAGGRALELAEARRRLLEVEGRRRLV  
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>sp|Q12815|TROAP\_HUMAN Tastin OS=Homo sapiens GN=TROAP PE=1 SV=3

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VADPAALATILSGEGVKSCHLGRQPSLAKRVLVRGSQGGTTQRVQGVASAYLAPRTPTH  
RLDPARASCFSRLEGPGPRGRTLCPQRLQALISPSGPSFHPSTRPSFQELRRETAGSSRT  
SVSQASGLLLETVPVQPAFSLPKGEREVVTHSDEGGVASLGLAQRVPLRENREMSHTRDSH  
DSHLMPSAPVAQPLPGHVPCPSPFGRARVPSPGPPTLTSYSVLRLTLVQPKTRFTPM  
PSTPRVQQAQWLRGVSPQSCSEDPALPWEQVAVRLFDQESCIRSLESGKPPVATPSGPH  
SNRTPSLQEVKIQRIGILQQLLRQEVEGLVGGQCVPLNGGSSLDMLVQLLLEISRTLN  
ATEHNSGTSHLPGLLKHSGLPKCLPEECGEPQPCPPAEPGPPEAFCRSEPEIPEPSLQE  
QLEVPEPYPPAEPRLPESCCRSEPEIPESSRQEQLLEVPEPCPPAEPRLPESYCRIEPEIP  
ESSRQEQLLEVPEPCPPAEPGLQ PSTQGQSGPPGPCPRVELGASEPCTLEHRSLESSLPP  
CCSQWAPATTSLIFSSQHPLCASPPICSLQSLRPPAGQAGLSNLAPRTLALRERLKSCLT  
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>sp|Q7Z4N2|TRPM1\_HUMAN Transient receptor potential cation channel subfamily M member 1  
OS=Homo sapiens GN=TRPM1 PE=1 SV=2

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GKGLIKAAMTTGAWIFTGGVSTGVISHVGDALKDHSSKSRGRVCAIGIAPWGIVENKEDL  
VGKDVTRVYQTMNSPLSKLSVLNNSHTHFILADNGTLGKYGAEVKLRLLEKHISLQKIN  
TRLGQGVPLVGLVVEGGPNVVSIVLEYLQEEPPIPVVICDGSGRASDILSFAHKYCEEGL  
IINESLREQLLVTIQKTFNYNKAQSHQLFAIIMECKKKELVTVFRMGSEGQQDIEMAIL  
TALLKGTNV SAPDQLSLALAWNVRDIARSQIFVFGPHWPPLGSLAPPTDSKATEKEKKPP  
MATTKGGRGKGKGGKGVKEEVEEETDPRKIELLNWNVALEQAMLDALVLDVDFVKLL  
IENGVMNQHFLTIPRLEELYNTRLGPPNTLHLLVRDVKKSNLPPDYHISLIDIGLVLEYL  
MGGAYRCNYTRKNFRFTLYNNLFGPKRPKALKLLGMEDEPPAKGKKKKKKKKEEIDIDV  
DDPAVSRFQYPFHELMVWAVLMKRQKMAVFLWQRGEESMAKALVACKLYKAMAHESSES  
LVDDISQDLNNSKDFGQLALELLDQSYKHDEQIAMKLLTYELKNWSNSTCLKLAVAAKH  
RDFIAHTCSQMLLTDMWMGRLMRKNPGLKVI MGILLPPTILFLEFRTYDDFSYQTSKEN

EDGKEKEEENTDANADAGSRKGDEENEHKKQRSIPIGTKICEFYNAPIVKFWFYTISYLG  
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EVKISISNQVWKFRYQLIMTFHDRPVLPPPMIILSHIYIIIMRLSGRCRKKREGDQEERD  
RGLKLFLSDEELKRLHEFEEQCVQEHFREKEDEQQSSDERIRVTSERVENMSMRLEEIN  
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QSSINSADGYSLYRYHFNGEELLFEDTSLSTSPGTGVRKKTCFRIKEEKDVKTHLVPEC  
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VYSRGRKLVGGVNQDVEYSSITDQQLTTEWQCQVQKITRSHSTDIPYIVSEAAVQAEHKE  
QFADMQDEHHVAEAIPIRPLSLTITDRNGMENLLSVKPDQTLGFPSLSKSLHGHPRNV  
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>sp|Q9NZQ8|TRPM5\_HUMAN Transient receptor potential cation channel subfamily M member 5  
OS=Homo sapiens GN=TRPM5 PE=2 SV=1

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RDHSLASTSTKVRVAVGMASLGRVLHRRILEEAQEDFPVHYPEDDGGSGGPLCSLDSNL  
SHFILVEPGPPGKGDLTELRLLEKHISEQRAGYGGTGSIEIPVLCLLVNGDPNTLERI  
SRAVEQAAPWLILVSGGIADVLAALVNQPHLLVPKVAEKQFKEKFPKHFQSWEDIVRWT  
KLLQNITSHQHLLTVYDFEQEGSEELDTVILKALVKACKSHSQEPQDYLDLKLAVAWDR  
VDIAKSEIFNGDVEWKSCDLEEVMDALVSNKPEFVRLFVDNGADVADFLT YGRLQELYR  
SVSRKSLFLDLLQRKQEEARLTLAGLGTQQAREPPAGPPAFSLHEVSRVLKDFLQDACRG  
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LTRWRKFWGAPVTVFLGNVVMYFAFLFLFTYVLLVDFRPPPQGPSGPEVTLYFWVFTLV  
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DFMVFTLRLIHIFAIHKQLGPKIIVVERMMKDVFFFLFSLVWL VAYGVTTQALLHPHDG  
RLEWIFRRVLYRYPYLQIFGQIPLDEIDEARVNCSTHPLLEDSPSCPSLYANWLVILLV  
TFLLVTNVLLMNLIIAMFSYTFQVVQGNADMFWKFQRYNLIVEYHERPALAPPFILLSHL  
SLTLRRVFKKEAEHKREHLERDLPDPLDQKVVTWETVQKENFLSKMEKRRRDEGEVLRK  
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>sp|Q9BX84|TRPM6\_HUMAN Transient receptor potential cation channel subfamily M member 6  
OS=Homo sapiens GN=TRPM6 PE=1 SV=2

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DHLLHMLKWKMEPKLVISVHGGIQNFTMPSKFKEIFSQGLVKA AETTGAWIITEGIN  
TGVSKHVGDALKSHSSHSLRKIWTVGIPPWGV IENQRDLIGKDVVCLYQTLDNPLSKLTT  
LNSMHSFILSDDGTGKYGNEMKLRRNLEKYL SLQKIHCRRSQGPVVG LVEGGPNVI  
LSVWETVKDKDPVVVCEGTGRAADLLAFTHKHLAEGMLRPQVKEEII CMIQNTFNFSLK

QSKHLFQILMECMVHRDCITIFDADSEEQQDLDAILTALLKGTNLSASEQLNLAMAWDR  
VDIAKKHILIEYQHWKPDALQAMSDALVMDRVDFVKLLIEYGVNLHRFLTIPRLEELYN  
TKQGPTNTLLHHLVQDVKQHTLLSGYRITLIDIGLVVEYLIGRAYRSNYTRKHFRALYNN  
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ASEELKNYSKQFGQLALDLEKAFKQNERMAMTLLTYELRNWSNSTCLKLAVSGGLRPFV  
SHTCTQMLLTDMMWGRLKMRKNSWLKIIISIIILPPTILTLEFKSKAEMSHVPQSQDFQFM  
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KFWFYTMAYLAFLMLFTYTVLVEMQPQPSVQEWLVSIYIFTNAIEVVREICISEPGKFTQ  
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QHAGPYVTMIAKMTANMFYIVIIIMAILVLLSFGVARKAILSPKEPPSWSLARDIVFEPYWM  
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NNLWKYNRYRYIMTYHEKPWLPPPLILLSHVGLLLRRLCCHRAPHDQEEGDVGLKLYLSK  
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VLGSMEIAGEKKYQYYSMPSSLLRSLAGGRHPPRVQRGALLEITNSKREATNVRNDQERQ  
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SQAKIMQTGGGYVNWAFSEGETGVFSIKKKWQTCLPSTCSDSSRSEQHQKQAQDSSLS  
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GSSEIGQGAWVKAKMLTKDRRLSKKKKNTQGLQVPIITVNACSQSDQLNPEPGENSISEE  
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LNRNSLLKSSIGVDKISASLKSQEPHHHYSAIERNNLMRLSQTIPFTPVQLFAGEEITV  
YRLEESSPLNLDKSMSSWSQRGRAAMIQVLSREEMDGGLRKAMRVVSTWSEDDILKPGQV  
FIVKSFLPEVVRTWHKIFQESTVLHLCLREIQQQRAAQKLIYTFNQVKPQTIPYTPRFLE  
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>sp|Q96QT4|TRPM7\_HUMAN Transient receptor potential cation channel subfamily M member 7  
OS=Homo sapiens GN=TRPM7 PE=1 SV=1

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LQLLLKEWQMEPLKLVISVHGGMQKFELHPRIKQLLGKGLIKA AVTTGAWILTGGVNTGV  
AKHVGDALKEHASRSSRKICTIGIAPWGVIENRNDLVGRDVPVAPYQTLNPLSKLNLNN  
LHSHFILDVDDGTGKYGAEVLRLRELEKTINQQRHARIGQGVVVALIFEGGPNVILTV  
LEYLQESPPVPVVCEGTGRAADLLAYIHKQTEEGGNLPDAAEPDIISTIKKTFNFGQNE  
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GGNNRRSGRNTSSSTPQLRKSHESFGNRADKKEKMRHNHFIKTAQPYRPKIDTVMEEGKK  
KRTKDEIVDIDDPETKRFYPLNELLIWACL MKRQVMARFLWQHGEESMAKALVACKIYR  
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CLKLAVSSRLRPFVAHTCTQMLLSDMMWGRNLNMRKNSWYKVL SILVPPAILLLEYKTKA  
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ITRKFYAFYHAPIVKFWFNTLAYLGFLMLYTFVVLVQMEQLPSVQEWIVIAIYIFTYAIEK  
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FERVEQMCIQIKEVGDRVNIKRSLQSLDSQIGHLQDLSALTVDTLKTTLTAQKASEASKV  
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RRPSTEDTHEVDSKAALIPDWLQDRPSNREMPSEEGTLNGLTSPFKPAMDTNYYYSAVER  
NNLMRLSQSIPFTPVPVRGEPVTVYRLEESSPNILNNSMSSWSQLGLCAKIEFLSKEEMG  
GGLRRAVKVQCTWSEHDILKSGHLYIKSFLPEVVNTWSSIYKEDTVLHLCLREIQQQRA  
AQKLTFAFNQMKPKSIPYSPRFLEVFLLYCHSAGQWFAVEECMTGEFRKYNNNNGDEIIP  
TNTLEEIMLAFSHWYETRGELLVLDLQGVGENLTDPSVIKAEKRSCDMVFGPANLGE  
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>sp|Q7Z2W7|TRPM8\_HUMAN Transient receptor potential cation channel subfamily M member 8  
OS=Homo sapiens GN=TRPM8 PE=1 SV=2

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LRLIHIFTVSRNLGPKIIMLQRMIDVFFFLFLFAVWMVAFGVARQGILRQNEQRWRWIF  
RSVIYEPYLAMFGQVPSDVGTTYDFAHCTFTGNEKPLCVELDEHNLPRFPEWITIPLV  
CIYMLSTNILLVNLVAMFGYTVGTQENNDQVWKFQRYFLVQEYCSRLNIPFPFIVFAY  
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>sp|Q9H1D0|TRPV6\_HUMAN Transient receptor potential cation channel subfamily V member 6  
OS=Homo sapiens GN=TRPV6 PE=1 SV=3

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ASVSARATGTAFRSPCNLIYFGEHPLSFAACVNSEIIVRLLEHGADIRAQDSLGNLTVL  
HILILQPNKTFACQMYNLLLSYDRHGDHLQPLDLVPNHQGLTPFKLAGVEGNTVMFQHLM  
QKRKHTQWYGPLTSTLYDLTEIDSSGDEQSLELEIITTKKREARQILDQTPVKELVSLK  
WKRYGRPYFCMLGAIYLLYIICFTMCCIYRPLKPRNTNNRTSPRDNLTLLQKLLQEAYMTP  
KDDIRLVGELVTVIGAIILLVEVPDIFRMGVTRFFGQTILGGPFHVLIIITYAFMVLVTM  
VMRLISASGEVPMFALVLGWCNVMYFARGFQMLGPFTIMI QKMIFGDLMRFCWLMAVV  
ILGFASAFYIIFQTEDPEELGHFYDYPMALFSTFELFLTIIDGPANYNDLPMYSITYA  
AFAI IATLLMLNLLIAMMGDTHWRVAHERDELWRAQIVATTVMLEKLPRLWPRSGICG  
REYGLGDRWFLRVEDRQDLNRQRIQRYAQAFHTRGSEDLDKDSVEKLELGCPFSPHLSLP  
MPSVSRSTSRSSANWERLRQGTLRRLRGI INRGLEDGESWEYQI

>sp|Q9BZJ3|TRYD\_HUMAN Tryptase delta OS=Homo sapiens GN=TPSD1 PE=2 SV=2

MLLLAPQMLSLLLLALPVLASPAYVAPAGQALQQTGIVGGQEAPRSKWFWQVSLRVRGP  
YWMHFCGGS LIHPQWVLTAAHCVEPDIKDLAALRVQLREQHLYYQDQLLPVSRIIVHPQF  
YIIQTGADIALLEELPNVNISSHIHTVTLPASETFPFGMPWCWVTGWGDVDNNVHLPPPY  
PLKEVEVPVVENHLCNAEYHTGLHTGHSFQIVRDDMLCAGSENHDSQCQDGGGPLVCKVN  
GT

>sp|Q7RTX0|TS1R3\_HUMAN Taste receptor type 1 member 3 OS=Homo sapiens GN=TAS1R3 PE=1 SV=2

MLGPAVLGLSLWALLHPGTGAPLCLSQQLRMKGDYVLGGLFPLGEAEEAGLSRTRPSSP  
VCTRFSSNGLLWALAMKMAVEEINNKSDDLPLGLRLGYDLFDTCSEPVVAMKPSLMFLAKA  
GSRDIAAYCNYTQYQPRVLAVIGHSSSELAMVTGKFFSFFLMPQVSYGASMELLSARETF  
PSFFRTVPSDRVQLTAAAEELLQFEGWNWVAALGSDDEYGRQGLSIFSALAAARGICIAHE  
GLVPLPRADDSRLGKVQDVLHQVNQSSVQVLLFASVHAAHALFNYSISSRLSPKVWVAS  
EAWLTSDLVMGLPGMAQMGTVLGLRGAQLHEFPQYVKTHLALATDPAFCSALGEREQG  
LEEDVVGQRCPQCDITLQNVSAGLNHHQTFSVYAAVYSVAQALHNTLQCNASGCPAQDP  
VKPWQLLENMYNLT FHVGGPLPRFDSSGNVDMEYDLKLWVWQGSVPRLHDVGRFNGSLRT  
ERLKI RWHSTDNQKPVSRCSRQCQEGQVRRVKGFHSCCYDCVDCEAGSYRQNPDDIACTF  
CGQDEWSPERSTRCFRRRSRFLAWGEPVLLLLLLLLSLALGLVLAALGLFVHHRDSPLVQ  
ASGGPLACFGLVCLGLVCLSVLLFPGQPSPARCLAQQPLSHLPLTGCLSTLFLQAAEIFV  
ESELPLSWADRLSGCLRGPWAWLVLLAMLVEVALCTWYLVAFPPEVTDWHMLPTEALV  
HCRTRSWVSFGLAHATNATLAFLCFLGTFLVRSQPGCYNRARGLTFAMLAYFITWVSFVP  
LLANVQVVLRAVQMGALLCLVLGILAAFHLP RCYLLMRQPGLNTP EFFLGGGPGDAQGQ  
NDGNTGNQ GKHE

>sp|Q92574|TSC1\_HUMAN Hamartin OS=Homo sapiens GN=TSC1 PE=1 SV=2

MAQQANVGELLAMLDPMLGVRDDVTAVFKENLNSDRGPMLVNTLVDYYLETSSQPALHI  
LTTLQEPHDKHLLDRINEYVGKAATRLSILSLLGHVIRLQPSWKHKLSQAPLLPSLLKCL  
KMDTDVVVLTTGVLVLTIMLPMIPQSGKQHLLDFFDIFGRLSSWCLKKPGHVAEYVLVHL  
HASVYALFHRLYGYMPCNFVSFLRSHYSMKENLETFEVVKPMMEHVRIHPELVTGSKDH  
ELDPRRWKRLETHDVVIECAKISLDPTASYEDGYSVSHQISARFPHRSADVTTSPYADT  
QNSYGCATSTPYSTRMLMLNMPGQLPQTLSSPSTRLITEPPQATLWSPSMVCGMTTPPT  
SPGNVPPDL SHPYSKVFGT TAGGKGTPLGTPATSPPPAPLCHSDDYVHISLPQATVTPPR  
KEERMDSARPCLHRQHLLNDRGSEEPGSKGSVTLSDLPGLGDLASEEDSIEKDKEEA  
AISRELSEITTAEAEPVVRPGGFDSPFYRDSLPGSQRKTHSAASSSQGASVNPEPLHSSL  
DKLGPDTPKQAFPTIDLPCGSADESPAGDRECQTSLETSTFTSPCKIPPPTRVGFSGGQ  
PPPYDHLFEVALPKTAHHFVIRKTEELLKKAGNTEEDGVPSTSPMEVLDRLIQQGADAH

SKELNKLPLPSKSDVTHFGGSPPSDEIRTLRDQLLLLHNQLLYERFKRQQHALNRRL  
RKVIKAAALEEHNAAMKDQLKLQEKDIQMWKVSQKEQARYNQLQEQRDTMVTKLHSQIR  
QLQHDFEYFNQSQELQTKLEDCRNIAELRIELKKANNKVCHTELLSQVSQKLSNES  
VQQQMEFLNRQLVLGEVNELYLEQLQNKHSDTTKEVEMMKAAYRKELEKNRSHVLQQTQ  
RLDTSQKRILELESHLAKKDHLLEQKKYLEDVKLQARGQLQAAESRYEAQKRITQVFEL  
EILDLYGRLEKDGLLKKLEEEKAEAAEAERLDCCNDGCSDSMVGHNEEASGHNGETKT  
PRPSSARGSSGRGGGSSSSSELSTPEKPPHQRAGPFSSRWETTMGEASASIPTTVGS  
LPSSKSFLGMKARELFRNKSESQCDEDMTSSLSLSTELGKDLGVEAKIPLNLDGPHP  
SPPTPDVSVGLHIMDYNETHHEHS

>sp|Q9NRE2|TSH2\_HUMAN Teashirt homolog 2 OS=Homo sapiens GN=TSHZ2 PE=1 SV=3

MPRRKQQAAPKRAAGYAQEEQLKEEEEIKEEEEEEDSGSVAQLQGGNDTGDEELETGPEQ  
KGCFSYQNSPGSHLSNQDAENESLLSDASDQVSDIKSVCGRDASDKKAHTHVRPNEAHN  
CMDKMTAVYANILSDSYWSGLGLGFKLSNSERRNCDTRNGSNKSDFDWHQDALSKSLQQN  
LPSRSVSKPSLFSSVQLYRQSSKMCQTVFTGASRFRCRQCSAAYDTLVELTVHMETGHY  
QDDNRKKDKLRPTSYSKPRKRAFQDMKEDAQKVLKCMFCGDSFDSLQDLVHMIKTKHY  
QKVPLKEPVPTISSKMVTPAKKRVPDVRPCSPDSTTGSAFDSFSSQKNANLQLSSNNRY  
GYQNGASYTWQFEACKSQILKCMCEGSSHDTLQQLTTHMMVTGHFLKVTSSASKKGKQLV  
LDPLAVEKMQSLSEAPNSDSLAPKSSNSASDCTASTTELKESKKERPEETSKDEKVVK  
SEDYEDPLQKPLDPTIKYQYLREEDLEDGSKGGDILKSLENTVTTAINKAQNGAPSWA  
YPSIHAAYQLSEGTQPLPMGSQVLQIRPNLTNKLRIAPKWKVMPLVSMPHTLAPYTQV  
KKESEDKDEAVKECKGKESPHEEASSFSHSEGDSEFRKSETPPEAKKTELGPLKEEEKLMKE  
GSEKEKPPLEPTSALSNGCALANHAPALPCINPLSALQSVLNNHLGKATEPLRSPSCSS  
PSSSTISMFHKSNLNVMKPVLSASTRSASVSRRYLFENSQIDPILTKSKSKKAESSQA  
QSCMSPPQKHALSDIADMVKVLPKATTPKPASSSRVPPMKLEMDVRRFEDVSSEVSTLHK  
RKGRQSNWNPQHLLILQAQFASSLFQTSEGKYLLSDLGPQERMQISKFTGLSMTTISHWL  
ANVKYQLRKTGGTKFLKNMDKGHPIFYCSDCASQFRTPSTYISHLESHLGFQMKDMTRLS  
VDQQSKVEQEISRVSSAQRSPETIAAEEDTDSKFKCKLCCRTFVSKHAVKLHLSKTHSKS  
PEHHSQFVTDVDEE

>sp|Q8WUA8|TSK\_HUMAN Tsukushin OS=Homo sapiens GN=TSKU PE=2 SV=3

MPWPLLLLLAVSGAQTRPCFPGCQCEVETFGLFDSFSLTRVDCSGLGPHIMPVPIPLDT  
AHLDLSSNRLEMVNESVLAGPGYTTLAGLDLSHNLTSISPTAFSRLRYLESLDLSHNL  
TALPAESFTSSPLSDVNLSHNQLREVSVSAFTTHSQGRALHVDLSHNLHRLVPHPTRAG  
LPPTIQSLNLAWNRLHAVPNLRDLPLRYLSLDGNPLAVIGPAGFAGLGGTLHSLASLQ  
RLPELAPSGFREPLGLQVLDLSGNPKLNWAGAEVFSGLSSLQELDSGTNLVPLPEALLL  
HLPALQSVSVGQDVRCRRLVREGTYPRRPGSSPKVALHCVDTRDSAARGPTIL

>sp|O95859|TSN12\_HUMAN Tetraspanin-12 OS=Homo sapiens GN=TSPAN12 PE=1 SV=1

MAREDSVKCLRCLLYALNLLFWLMSISVLAVSAWMRDYLNVLTLTAETRVEEAVILTYF  
PVVHPVMIAVCCFLIIVGMLGYCGTVKRNLLLAIFYGSLLVIFCVELACGVWTYEQELM  
VPVQWSDMVTLKARMTNYGLPRYRWLTHAWNFFQREFKCCGVVYFTDWLEMTMDWPPDS  
CCVREFPGCSKQAHQEDLSDLYQEGCGKKMYSFLRGTKQLQVLRFLGISIGVTQILAMIL  
TITLLWALYYDRREPGTDQMMSLKNDNSQHLSCPSVELLKPSLSRIFEHTSMANSFNTHF  
EMEEL

>sp|Q96SJ8|TSN18\_HUMAN Tetraspanin-18 OS=Homo sapiens GN=TSPAN18 PE=2 SV=1

MEGDCLSCMKYLMFVFNFFIFLGGACLLAIGIWMVDPTGFRDIVAANPLLLTGAYILLA

MGLLFLLGFLGCCGAVRENKCLLLFFFLFILIIFLAELSAAILAFIFRENLTREFFTKE  
LTKHYQGNNDDTVFSATWNSVMITFGCCGVNGPEDFKFASVFRLLTLDSEEVPEACCRRE  
PQSRDGVLLSREECLLGRSLFLNKQGCTVILNTFETYVYLAGALAIGVLAIELFAMIFA  
MCLFRGIQ

>sp|Q9H0U9|TSYL1\_HUMAN Testis-specific Y-encoded-like protein 1 OS=Homo sapiens GN=TSPYL1  
PE=1 SV=3

MSGLDGVKRTTPLQTHSIIISDQVPSDQDAHQYLRLRDQSEATQVMAEPGEGGSETVALP  
PPPPSEEGVPPQDAAGRGTPQIRVVGGRGHVAIKAGQEEGPPAEGLAASVMAADRS  
LKKGVQGGEKALEICGAQRSASELTAGAEAEAEVKTGKCATVSAAVAERESAEEVKEGL  
AEKEVMEEQMEVEEQPPEGEEIEVAEEDRLEEEAREEEGPWPLHEALRMDPLEAIQLELD  
TVNAQADRAFQQLHFKFGRMRRLHYLERNNYIIQNI PGFWMTAFRNHPQLSAMIRGQDAEM  
LRYITNLEVKELRHPRTGCKFKFFFRNPNPYFRNKLIVKEYEVRSSGRVVSLSSTPIIWRRG  
HEPQSFIRRNQDLICSFFTWFSHSLPESDKIAEIIKEDLWPNPLQYYLLREGVRRARRR  
PLREPVEIPRPFQSG

>sp|Q86VY4|TSYL5\_HUMAN Testis-specific Y-encoded-like protein 5 OS=Homo sapiens GN=TSPYL5  
PE=1 SV=2

MSGRSRGRKSSRAKNRGKRAKARVRPAPDDAPRDPDPSQYQSLGEDTQAAQVQAGAGWG  
GLEAAASAQLRLGEEAACRLPLDCGLALRARAAGDHGQAAARPGPGKAASLSERLAADT  
VFVGTAGTVGRPKNAPRVGNRRGPAGKKAPETCSTAGRGPQVIAGGRQKKGAAGENTSVS  
AGEEKKEERDAGSGPPATEGSMDTLENVQLKLENMNAQADRAYLRLSRKFGQLRLQHLE  
RNHLIQNI PGFWGQAFQNHPLASFLNSQEKEVLSYLSLEVEELGLARLGKIKFYFDR  
NPYFQNKVLIKEYGCGPSGQVVSSTPIQWLPGHDLQSLSQGNPENNRSFFGWFSNHSSI  
ESDKIVEIINEELWPNPLQFYLLSEGARVEKGEKEGRQGPQKQPMETTQPGVSQSN

>sp|Q8N4P2|TTC30B\_HUMAN Tetratricopeptide repeat protein 30B OS=Homo sapiens GN=TTC30B  
PE=1 SV=2

MAGLSGAQIPDGEFTAVVYRLIRNARYAEAVQLLGELQSPRSRAGLSLLGYCYRRLQE  
FALAAECYELGQLHPELEQYRLYQAQALYKACLYAEATRVAFLLDNPAYHSRVLRLQA  
AIKYSEGLDPSRSLVEQLPSREGGEESGGENETDQQINLGCLLYKEGQYEAACSKFFAA  
LQASGYQPDLSYNLALAYYSSRQYASALKHIAEIIERGIRQHPELGVGMTTEGIDVRSVG  
NTLVLHQ TALVEAFNLKAAIEYQLRNYEAAQEALTMPPRAEEELDPVTLHNQALMNMDA  
RPTEGFEKLQFLLQNPFPETFGNLLLLYCKYEFDLAADVLAENAHLIYKFLTPYLYD  
FLDAVITCQTAPEEAFIKLDGLAGMLTEVLRKLTIQVQEARHNRDDEAIKKAVNEYDETM  
EKYIPVLMQAQKIYWNLENYPMVEKIFRKSVEFCNDHDVWKLNVAVHVLFMQENKYKEAIG  
FYEPYIVKKHYDNLNVAIVLANLCVSYIMTSQNEEAELMRKIEKEEEQLSYDDPDKKM  
YHLCIVNLVIGTLYCAKGNDFGISRVIKSLEPYNKKLGTDTWYYAKRCFLSLENMSKH  
TIMLRDSVIQECVQFLEHCELHGRNIPAVIEQPLEEERMHVGNKNTVTYESRQLKALIYEI  
IGWNI

>sp|A8MYJ7|TTC34\_HUMAN Tetratricopeptide repeat protein 34 OS=Homo sapiens GN=TTC34 PE=2  
SV=2

MLQRSRAGPSRAQGRREAETGGPTTQEGVACGVHQLATLLMELDSEDEASRLLAADAL  
YRLGRLEETHKALLVALSRRPQAAPVLARLALLQLRRGFFYDANQLVKKLVQSGDTACLQ  
PTLDVFCHEDRQLLQGHCHARALAILRARP GGADGRVHTKEAIA YLSLAIFAAGSQASES  
LLARARCYGLGQKKTAMFDFNTVLR AEPGNVQALCGRALVHLALDQLQEAVDDIVSALK  
LGPGTVVPELRSLKPEAQALITQGLYSHCRALLSQLPDTGAPLEDKDTQGLLAVGEALIK

IDSGQPHWHLALLADILMAQGSYEEAGTHLEKALHRAPTSEAAARLGLLQLKKGDVPGAA  
RDLQSLAEVDAPDLSCLLHLEASERQSLAQAAAEAGTLLDAGQPRQALGYCSLSVLAS  
GSSACHRLRLRATCLAEQEFGRALRDLHDVHLEALGDGDLPRRAEDFCRQGRLLLSLGDE  
AAAAGAFQAQALKLAPSLAQNSLCRQPGRAPTARMFLLRGQCCEEQRHAEAWTAVESGLL  
VDPDHRGLKRLKARIRREASSGCWLQ

>sp|O95801|TTC4\_HUMAN Tetratricopeptide repeat protein 4 OS=Homo sapiens GN=TTC4 PE=1  
SV=3

MEQPGQDPTSDDVMSDFLEKFQSQPYRGGFHEDQWEKEFEKVPLFMSRAPSEIDPRENPD  
LACLQSIIFDEERSPEEQAKTYKDEGNDYFKEKDYKKAVISYTEGLKKKCADPDLNAVLY  
TNRAAAQYYLGNFRSALNDVTAARKLKPCHLKAIIRGALCHLELKHFAEAVNWCDEGLQI  
DAKEKKLLEMRADKLRKRIEQRDVRKANLKEKKERNQNEALLQAIKARNIRLSEAACED  
EDSASEGLGELFLDGLSTENPHGARLSLDGQGRLSWPVFLYPEYAQSDFISAFHEDSRF  
IDHLMVMFGETPSWDLEQKYCPDNLEVYFEDEDRAELYRVPKSTLLQVLQHQRVFKAL  
TPAFLVCVGSSPFCKNFLRGRKVYQIR

>sp|Q9ULT0|TTC7A\_HUMAN Tetratricopeptide repeat protein 7A OS=Homo sapiens GN=TTC7A PE=1  
SV=3

MAAKGAHGSYLKVESELERCRAEGHWDRMPELVRQLQTLSPGGGNNRRGSPSAFTFPD  
TDDFGKLLLAALLEQCLKENHAKIKDSMPLLEKNEPKMSEAKNYLSSILNHGRLSPQYM  
CEAMLILGKLHYVEGSYRDAISMYARAGIDDSMENKPLYQMRLLEAFVIKGLSLERLP  
NSIASRFRLTEREEVITCFERASWIAQVFLQELEKTTNNSTSRHLKGCHPLDYELTYFL  
EAALQSAYVKNLKKGNIVKGMRELREVLRTVETKATQNFVKMAAKHLAGVLLHSLSEECY  
WSPLSHPLPEFMGKEESSFATQALRKPHLYEGDNLYCPKDNIEEALLLLISESMATRDV  
VLSRVEQEEDRTVSLQNAAIYDLLSITLGRRGQYVMLSECLERAMKFAFGEFHLWYQV  
ALSMVACGKSAYAVSLLRECVKLRPDPTVPLMAAKVCIGSLRWLEEAHFAMMVISLGE  
EAGEFLPKGYLALGLTYSLATDATLKSQDELHRKALQTLERAQQLAPSDPVILYVSL  
QLALVRQISSAMEQLQEALKVRKDDAHALHLLALLFSAQKHHQHALDVNMAITEHPENF  
NLMFTKVKLEQVLKGPPEALVTCRQVLRWLQTLYSFSQLGGLEKDGSGEGGLTMKKQSGM  
HLTLPDAHDADSGSRRASSIAASRLSEAMSELTMPSSVLKQGPMQLWTTLEQIWLQAAEL  
FMEQQHLKEAGFCIQEAAGLFPTSHSVLYMRGRLAEVKGNLEEAKQLYKEALTVPDQVGR  
IMHSLGLMLSRLGHKSLAQVLRDAVERQSTCHEAWQGLGEVLQAQGGNEAAVDCFLTAL  
ELEASSPVLPSIIPREL

>sp|Q9UNY4|TTF2\_HUMAN Transcription termination factor 2 OS=Homo sapiens GN=TTF2 PE=1  
SV=2

MEEVRCPEHGTFCLKTGVRDGPNGKGSFYVCRADTCSFVRATDIPVSHCLLHEDFVVEL  
QGLLLPQDKKEYRLFFRCIRSKAEGKRWCGSIPWQDPDSKEHSVSNKSQHASETFHHSSN  
WLRNPFKVLDDKNQEPALWKQLIKGEGEEKKADKKQREKGDQLFDQKKEQKPEMMEKDLSS  
GLVPKKKQSVVQEKKEEGAEIQCEAETGGTHKRDFSEIKSQQCQGNELTRPSASSQEK  
SGKSQDVQRESEPLREKVTQLLPQNVHSHNSISKPKGGPLNKEYTNWEAKETKAKDGPS  
IQATQKSLPQGHFQERPETHSVAPGGPAAQAAAPAGLSLGEGREAATSSDDEEDDVV  
FVSSKPGSPLLFDSTLDLETENLQFPDRSVQRKVSPASGVSKKVEPSDPVARRVYLTQ  
LKQKKSTLASVNIQALPDKGQKLIKQIQELEEVLSGLTSLPEQGTNEKSNSQVPQQSHFT  
KTTTGPPHLVPPQPLPRRGTPVGSLELKSACQVTAGGSSQCYRGHTNQDHVHAVWKITS  
EAIGQLHRSLESCPGETVVAEDPAGLKVPLLLHQKQALAWLLWRESQKPGGILADDMGL  
GKTLTMIALILTQKNQEKKKEEKSTALTWLSKDDSCDFTSHGTLIICPASLIHHWKNEV

EKRVNSNKL RVLY YHGPNRDSRARVLSTYDIVITTYSLVAKEIPTNKQAEIPGANLNVE  
GTSTPLLR IAWARI ILDEAHNVKNPRVQTSIAVCKLQACARWAVTGTPIQNNLLDMYSL  
KFLRCS PFDEFNLWRSQVDNGSKKGGERLSILTKSLLLRRTKDQLDSTGRPLVILPQRKF  
QLHHLKLSEDEETVYNVFFARSRSALQSYLKRHESRGNQSGRSPNNPFSRVALEFGSEEP  
RHSEAADSPRSSTVHILS QLLRLRQCCCHLSLLKSALDPMELKGEGLVLSLEEQLSALT  
SELRDSEPSSTVSLNGTFFKMELFEGMRESTKISSLLAELEAIQRNSASQKSVIVSQWTN  
MLKVVALHLKKHGLTYATIDGSVNPQRM DLVEAFNHSRGPQVMLISLLAGGVGLNLTGG  
NHLFLDMHWNPSLEDQACDRIYRVGQQKDVIHRFVCEGTVEEKILQLQEKKKDLAKQV  
LSGSGESVTKLTLADLRVLFGI

>sp|095922|TLL1\_HUMAN Probable tubulin polyglutamylase TLL1 OS=Homo sapiens GN=TLL1  
PE=2 SV=1

MAGVKVWVTDIEKSVLINNFEKRGWVQVTENEDWNFYWMSVQTIRNVFSVEAGYRLSDDQ  
IVNHFPNHYELTRKDL MVKNIKRYRKELEKEGSPLAEKDENGKYL YLDFVPVTYMLPADY  
NLFVEEFRKSPSSTWIMKPCGKAQGKGIFLINKLSQIKKWSRDSKTSSFVSQSNKEAYVI  
SLYINNPLLIGGRKFDRLRYLVSTYRPLRCYMYKLGFCRFTVKYTPSTSELDNMFVHL  
TNVAIQKHGEDYNHIHGKWTVSNLRLYLESTRGKEVTSKLFDEIHWIIVQSLKAVAPVM  
NNDKHCFCYGYDIIIDDKLKPWLI EVNASPSLTSSTANDRILKYNLINDTLNIAVPNGE  
IPDCKWNKSPPKEVLGNYEILYDEELAQGDGADRELRSRQGQSLGPRAGSRDSGRAVLT  
TWK

>sp|Q9Y4R7|TLL3\_HUMAN Tubulin monoglycylase TLL3 OS=Homo sapiens GN=TLL3 PE=1 SV=2

MNRLRNAKIYVERAVKQKKIFTIQGCYPVIRCLRRRGWVEKKMVHRSGPTLLPPQKDLD  
SSAMGSDTTEDDEDEDEEFQPSQLFDFDDLKFDLDLGDHALMVGLCLNLRNLPWFDE  
VDANSFFPRCYCLGAEDDKAFIEDFWLTAARNVLKLVKSEWKSYP IQAVEEEASGDKQ  
PKKQKKNPVLVSPEFVDEALCACEEYLSNLAHMDIDKDLEAPLYLTPEGWSLFLQRYYQV  
VHEGAELRHLDTQVQRCE DILQQLQAVVPQIDMEGDRNIWIVKPGAKSRGRGIMCMDHLE  
EMLKL VNGNPVVMKD GKWVQKYIERPLIFGTFDLRQWFLVTDWNPLTVWFYRDSYIR  
FSTQPFSLKNL DNSVHLCNNSIQKHL ENSCHRHPLLPDNMWSSQRFQ AHLQEMGAPNAW  
STIIVPGMKDAV IHALQTSQDTVQCRKASFELYGADFVFGEDFQPWLIEINASPTMAPST  
AVTARLCAGVQADTLRVVIDRMLDRNCDTGAFELIYKQPAVEVPQYVGIRLLVEGFTIKK  
PMAMCHRRMGVRPAVPLLTQRGSGEARHHFPSLHTKAQLPSPHVLRHQGVLRQRHSLV  
GTKALSTTGKALRTLPTAKVFISLPPNLDFKVAPSILKPRKAPALLCLRGPQLEVPCCLC  
PLKSEQFLAPVGRSRPKANSR PDCDKPRAEACPMKRLSPLKPLPLVGTGQRRRGLGDMKL  
GKPLLRFPTALVLDPTPNKKKQVKYLG LDSIAVGGSRVDGAR PCTPGSTARA

>sp|Q9NYZ1|TV23B\_HUMAN Golgi apparatus membrane protein TVP23 homolog B OS=Homo sapiens  
GN=TVP23B PE=1 SV=2

MLQQDSNDDTEDVSLFDAEEETTNRPRKAKIRHPVASFFHLFFRVSAIIVYLLCGLSSS  
FITCMVTIILLSCDFWAVKNVTGRLMVGLRWNNHIDEDGKSHWVFESRKESSQENKTVS  
EAESRIFWLGLIACPVLWVIFAFSALFSFRVKWLAVVIMGVVLQGANLYGYIRCKVRSRK  
HLTSMATSYFGKQFLRQNTGDDQTS

>sp|P04437|TVA2\_HUMAN T-cell receptor alpha chain V region CTL-L17 OS=Homo sapiens GN=TCRA  
PE=2 SV=1

MAMLLGASVLILWLQPDWVNSQQKNDDQVKQNSPSLSVQEGRISILNCDYTNSMFDYFL  
WYKKYPAEGPTFLISSIKDNEDGRFTVFLNKS AKHLSLHIVPSQPGDSAVYFCAAKG  
AGTASKLTFGTGTRLQVTL

>sp|Q96J42|TXD15\_HUMAN Thioredoxin domain-containing protein 15 OS=Homo sapiens  
GN=TXNDC15 PE=1 SV=1

MVPAAGRRPPRMRLGWWQVLLWVLGLPVRGVEVAEESGRLWSEEQPAHPLQVGAVYLG  
EEELLHDPMGQDRAAEANAVLGLDTQGDHVMVLSVIPGEADKVSSEPSGVTTCGAGGAE  
DSRCNVRESLFSLDGAGAHFPDREEEYYTEPEVAESDAAPTEDSNNTESLKSPKVNCEER  
NITGLENFTLKILNMSQDLMDFLNPNGSDCTLVLFYTPWCRFSASLAPHFNSLPRAFPAL  
HFLALDASQHSLSLSTRFGTVAVPNILLFQGAKPMARFNHTDRTLETCLKIFIFNQTGIEAK  
KNVVVTQADQIGPLPSTLIKSDWLLVFSLFFLISFIMYATIRTESIRWLIPGQEQEHVE

>sp|Q9BRA2|TXD17\_HUMAN Thioredoxin domain-containing protein 17 OS=Homo sapiens  
GN=TXNDC17 PE=1 SV=1

MARYEEVSVSGFEFHFRAVEQHNGKTI FAYFTGSKDAGGKSWCPDCVQAEPPVREGLKHI  
SEGCVFYICQVGEKPYWKDPNNDFRKNLKVTA VPTLLKYGTPQKLVESECLQANLVEMLF  
SED

>sp|Q9NUQ3|TXLNG\_HUMAN Gamma-taxilin OS=Homo sapiens GN=TXLNG PE=1 SV=2

MATRVEEAARGRGGGAEEATEAGRGRRRSRQKFEIGTMEEAGICGLGVKADMLCNSQS  
NDILQHQGSNCGGTSNKHSLEEDEGSDFITENRNLVSPAYCTQESREEIPGGEARTDPPD  
GQQDSECNRNKEKTLGKEVLLLQALNTLSTPEEKLAALCKKYADLLEESRSVQKQMKIL  
QKKQAQIVKEKVHLQSEHSKAILARSKLESCLRELQRHNKTLKEENMQQAREEEERRKEA  
TAHFQITLNEIQAQLEQHDIHNAKLQENIELGEKLKKLIEQYALREEHIDKVFHKHELQ  
QQLVDAKLQQTTLIKEADEKHQREREFLLKEATESRHKYEQMKQQEVQLKQQLSLYMDK  
FEFQTTMAKSNELFTTFRQEMEKMTKKIKKLEKETI IWRKWENNKKALLQMAEEKTVR  
DKEYKALQIKLERLEKLCRALQTERNELNEKVEVLKEQVSIKAAIKAANRDLATPVMQPC  
TALDSHKELNTSSKRALGAHLEAEPKSQRS AVQKPPSTGSAPAIESVD

>sp|P63313|TYB10\_HUMAN Thymosin beta-10 OS=Homo sapiens GN=TMSB10 PE=1 SV=2

MADKPDMGEIASFDKAKLKKTTETQEKNLTPTKETIEQEKRS EIS

>sp|POC7H9|U17L7\_HUMAN Inactive ubiquitin carboxyl-terminal hydrolase 17-like protein 7  
OS=Homo sapiens GN=USP17L7 PE=3 SV=1

MEDDSL YLGGDWQFNHFSKLTSSRLDAAFAEIQR TSLSEKSPLSSETRFDLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQKIGNTFYVNVSLQCLTYTLPLSNYMLSREDSQTCHLH  
KCCMFCTMQAHITWALHSPGHVIQPSQVLAAGFHRGEQEDAHEFLMFTVDAMKKACLP GH  
KQLDHHSKDTTLIHQIFGAYWRSQIKYLHCHGVSDTFDPYLDIALDIQAAQSVKQALEQL  
VKPKELNGENAYHCGCLQKAPASKTLTLPTS AKVLILVLKRFSDVTGNKLAKNVQYPKC  
RDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASGIT  
SVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRPATQGELKRDHPCLQVPEL  
DEHLVERATQESTLDHWKFPQEQNKTKPEFNVRKVEGTLPPNVLV IHQSKYKCGMKNHHP  
EQQSSLLNLSSTKPTDQESMNTGTLASLQGSTRRSKGNNKHSKRSLLCVQ

>sp|D6RBQ6|U17LH\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 17 OS=Homo  
sapiens GN=USP17L17 PE=3 SV=1

MEDDSL YLGGEWQFNHFSKLTSSRPDAAFAEIQR TSLPEKSPLSCETRVLDLDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNP GHVIQPSQALAAAGFHRGKQEDAHEFLMFTVDAMKKACLP GH  
KQVDHHSKDTTLIHQIFGGYWRSQIKLHCHGISDTFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTAASIT

SVLSQQAYVLFYIQSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSSLLNLSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|D6RA61|U17LM\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 22 OS=Homo sapiens GN=USP17L22 PE=3 SV=1

MEDDSLYLGGEWQFNHFSKLTSSRPDAFAEIQRTSLPEKSPLSCETRVDLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQHVLIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPQH  
KQVDHHSKDTTLIHQIFGGYWRQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQQNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSSLLKLSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|Q16560|U1SBP\_HUMAN U11/U12 small nuclear ribonucleoprotein 35 kDa protein OS=Homo sapiens GN=SNRNP35 PE=1 SV=1

MNDWMPAKEYDPLKAGSIDGTDEDPHRAVWRAMLARYVPNKGVIQDPLLTLFVARLNL  
QTKEDKLKEVFSRYGDIRRLRLVRDLVTGFSKGYAFIEYKEERAVIKAYRDADGLVIDQH  
EIFVDYELERTLKGWIPRRLGGGLGGKKESGQLRFGGRDRPFRKPINLPVVKNDLYREGK  
RERRERSRSRERHWDSTRDRDHDRGREKRWQEREPTRVWPDNDWERERDFRDDRIGRE  
KKERGK

>sp|P62837|UB2D2\_HUMAN Ubiquitin-conjugating enzyme E2 D2 OS=Homo sapiens GN=UBE2D2 PE=1 SV=1

MALKRIHKELNDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDY  
PFKPPKVAFTTRIYPHNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLV  
PEIARIYKTDREKYNRIAREWTQKYAM

>sp|Q16881|TRXR1\_HUMAN Thioredoxin reductase 1, cytoplasmic OS=Homo sapiens GN=TXNRD1 PE=1 SV=3

MGCAEGKAVAAAAPTELQTKGKNGDGRRRS AKDHHPGKTLPENPAGFTSTATADSRALLQ  
AYIDGHSVVIFSRSTCTRCTEVKLKFSLCVPYFVLELDQTEDGRALEGTLSELAETDL  
PVVYVQKRKIGGHGPTLKAYQEGRLQKLLKMNGPEDLPKSYDYDLIIIGGSGGLAAAKE  
AAQYGKKVMVLDFTPTPLGTRWGLGGTCVNVGCIPKKLMHQAALLGQALQDSRNYGWKV  
EETVKHDWDRMIEAVQNHIGSLNWGYRVALREKKVVYENAYGQFIGPHRIKATNNKGKEK  
IYSAERFLIATGERPRYLGPIDGKEYCISDDLFSLPYCPGKTLVVGASYVALECAGFLA  
GIGLDVTVMVRSILLRGFDQDMANKIGEHEEHGKIFIRQFVPIKVEQIEAGTPGRLRVV  
AQSTNSEEIIEGEYNTVMLAIGRDACTRKIGLETVGVKINEKTGKIPVTDEEQTNVPYIY  
AIGDILEDKVELTPVAIQAGRLLAQRLYAGSTVKCDYENVPTTVFTPLEYGACGLSEEKA  
VEKFGEENIEVYHSYFWPLEWTIPSRDNNKCYAKIICNTKDNERVVG FHVLPNAGEVTQ  
GFAAALKCGLTKKQLDSTIGIHPVCAEVFTTSLSVTKRSGASILQAGCUG

>sp|Q9NNW7|TRXR2\_HUMAN Thioredoxin reductase 2, mitochondrial OS=Homo sapiens GN=TXNRD2 PE=1 SV=3

MAAMAVLRGLGGRFRWRTQAVAGGVARGAAGAAQQRDYDLLVVGGSGLACAKEAAQ  
LGRKVAVDYVEPSPQGRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQP  
VPHDWRKMAEAVQNHVKSLSNWGHRVQLQDRKVKYFNKASFVDEHTVCGVAKGGKEILLS

ADHIIATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVGASYVALECAGFLTGI  
GLDTTIMRSIPLRGFDQQMSSMVEIHMASHGTRFLRGCAPSRVRRLPDGGQLQVTWEDST  
TGKEDTGTFDTVLAIGRPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDV  
VEGRPELTPIAIMAGRLLVQRLFGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHG  
QEHVEVYHAHYKPLEFTVAGRDASQCYVKMVCLREPPQLVLGLHFLGPNAGEVTQGFALG  
IKCGASYAQVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCUG

>sp|P07477|TRY1\_HUMAN Trypsin-1 OS=Homo sapiens GN=PRSS1 PE=1 SV=1  
MNPLLILTFVAAALAAPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLINEQWVVS  
AGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIRHPQYDRKTLNNDIMLIKLSRAVIN  
ARVSTISLPTAPPATGTKCLISGWNTASSGADYPDELQCLDAPVLSQACEASYPGKIT  
SNMFCVGFLEGGKDSQCQDGGPVCNGQLQGVVSWGDGCAQKNKPGVYTKVYNYVKWIK  
NTIAANS

>sp|P35030|TRY3\_HUMAN Trypsin-3 OS=Homo sapiens GN=PRSS3 PE=1 SV=2  
MCGPDDRCPARWPGPRAVKCGKGLAAARPGRVERGGAQRGGAGLELHPLLGGRTWRAAR  
DADGCEALGTAVPFDDDDKIVGGYTCEENSLPYQVSLNSGSHFCGGSLISEQWVVSAAH  
CYKTRIQVRLGEHNIKVLEGNEQFINAAKIIRHPKYNRDTLDNDIMLIKLSSPAVINARV  
STISLPTTPPAAGTECLISGWNTLSFGADYPDELKCLDAPVLTQAECKASYPGKITNSM  
FCVGFLEGGKDSQCQDGGPVCNGQLQGVVSWGHGCAWKNRPGVYTKVYNYVDWIKDTI  
AANS

>sp|Q7RTX1|TS1R1\_HUMAN Taste receptor type 1 member 1 OS=Homo sapiens GN=TAS1R1 PE=2 SV=1  
MLLCTARLVGLQLLISCCWAFACHSTESSPDFTLPGDYLLAGLFPLHSGCLQVRHRPEVT  
LCDRSCSFNEHGYHLFQAMRLGVEEINNSTALLPNITLGYQLYDVCSDSANVYATLRVLS  
LPGQHHLQGDLLHYSPTVLAVIGPDSTNRAATTAALLSPFLVPMISYAASSETLSVKR  
QYPSFLRTIPNDKYQVETMVLLLQKFGWTWISLVGSSDDYGQLGVQALENQATGQGICIA  
FKDIMPFSAQVGDERMQCLMRHLAQAGATVVVVSSRQLARVFFESVVLTNLTGKVWVAS  
EAWALSRHITGVPGIGRIGMVLGVAIQKRAVPLKAFEEAYARADKKAPRPCHKGSWCSS  
NQLCRECQAFMAHTMPKLKAFSMSSAYNAYRAVYAVAHGLHQLLGCASGACSRGRVYPWQ  
LLEQIHKVHFLHKTVAFNDNRDPLSSYNI IAWDWNPGKWTFTVLGSSTWSPVQLNINE  
TKIQWHGKDNQVPKSVCSDDCLEGHQRVVTGFHHCCFECVPCGAGTFLNKSPLYRCQPCG  
KEEWAPEGSQTCFPRTVVFLALREHTSWVLLAANTLLLLLLLGTAGLFAWHLDTPVVRS  
GGRLCFLMLGSLAAGSGSLYGGFFGEPTRPACLLRQALFALGFTIFLSCLTVRSFQLIIF  
KFSTKVPTFYHAWVQNHGAGLFVMISSAAQLLICLTWL VVWTPLPAREYQRFPHLVMLEC  
TETNSLGFILAFLYNGLLSISAFACSYLGKDLPENYNEAKCVTFSLNFVSWIAFFTTA  
SVYDGKYLPAANMMAGLSSLSGGGYFLPKCYVILCRPDLNSTEHFQASIQDYTRRCGS  
T

>sp|O95857|TSN13\_HUMAN Tetraspanin-13 OS=Homo sapiens GN=TSPAN13 PE=2 SV=1  
MVCGGFACSKNCLCALNLLYTLVSLLLIGIAAWGIGFGLISSLRVVGVIIVGIFLFLIA  
LVGLIGAVKHHQVLLFFYMIILLVFIQFVSVCACLALNQEQQQLLEVGVNNTASARN  
DIQRNLNCCGFRSVNPNDTCLASCVKSDHSCSPCAPIIGEYAGEVLRVVGIGLFFSFTE  
ILGVWLTYYRYRNQKDPRANPSAFL

>sp|Q86UF1|TSN33\_HUMAN Tetraspanin-33 OS=Homo sapiens GN=TSPAN33 PE=1 SV=1  
MARRPRAPAASGEESFVSPLVKYLLFFFNMLFWVISMVMVAVGVYARLMKHAEALACL  
AVDPAILLIVGVLMFLLTFCGCIGSLRENICLLQTFSLCLTAVFLLQLAAGILGFVFS  
KARGKVSEIINNAIVHYRDDLDLQNLIDFGQKKFSCGGISYKDWSQNMVFNCSEDNPSR



ERCSVPYSCCLPTPDQAVINTMCGQGMQAFDYLEASKVIYTNGCIDKLVNWIHSNLFLLG  
GVALGLAIPQLVGILLSQILVNQIKDQIKLQLYNQQHRADPWY

>sp|075954|TSN9\_HUMAN Tetraspanin-9 OS=Homo sapiens GN=TSPAN9 PE=1 SV=1

MARGCLCLKYMMFLFNLIFWLCGCGLLGVGIWLSVSQGNFATFSPSPSLSAANLVIAI  
GTIVMTGFLGCLGAIKENKCLLSFFIVLLVILLAELILLILFFVYMDKVNENAKKDLK  
EGLLLYHTENNVGLKNAWNIIQAEMRCCGVTDYTDWYPVLGENTVPDRCCMENSQGCGRN  
ATTPLWRTGCEYKVKMWFDNKHVLGTVGMCILIMQILGMAFSMTLFQHIHRTGKKYDA

>sp|Q9UI38|TSP50\_HUMAN Probable threonine protease PRSS50 OS=Homo sapiens GN=PRSS50 PE=1  
SV=1

MGRWCQTVARGQRPRTSAPSRAGALLLLLLLLRSAGCWGAGEAPGALSTADPADQSVQCV  
PKATCPSSRPRLLWQTPTTQTLPTTMTQFPVSEGKVDPYRSCGFSYEQDPTLRDPEAV  
ARRWPWMVSVRANGTHICAGTIIASQWVLTVAHCLIWDRDIYSVRVGSFWIDQMTQTASD  
VPVLQVIMHSRYRAQRFSWVGQANDIGLLKLKQELKYSNYVRPICLPSTDYVLKDHSRC  
TVTGWGLSKADGMWPQFRTIQEKEVILNNKECDNFYHNFTKIPTLVQIIKSQMMCAEDT  
HREKFCYELTGEPLVCSMEGTWYLVGLVSWGAGCQKSEAPPIYLQVSSYQHWIWDCLNGQ  
ALALPAPSRTLALLALPLPLSLLAAL

>sp|Q2NL82|TSR1\_HUMAN Pre-rRNA-processing protein TSR1 homolog OS=Homo sapiens GN=TSR1  
PE=1 SV=1

MAAHRPGPLKQQNAHKHGRHRGRGSAQRDGGKRLALKTLSSKKVRKELSRVDQRHRASQL  
RKQKKEAVLAERQLGGKDGPPHQLVPLHSRISLPEAMQLQDRDTGTVHLNELGNTQ  
NFMLLCPRLKHRWFFTSARPGDLHVLDMAKVADTILFLDPLEGWDSTGDYCLSLFAQ  
GLPTYTLAVQGISGLPLKKQIDTRKKLSKAVEKRFPHDKLLLLDTQQEAGMLLRQLANQK  
QQHLAFRRRAYLFAHAVDFVPSEENNLVGTLKISGYVRGQTLNVNRLHIVGYGDFQMK  
QIDAPGDPFPLNPRGIKPQKDPDMAMEICATDAVDDMEGLKVLMAKADPGRQESLQAEVI  
PDPMEGEQTWPTEELSEAKDFLKESKVVKKVPKGTSSYQAEWILDGGSQSGGEGDEYE  
YDDMEHEDFMEEESQDESSEEEEEYETMTIGESVHDDL YDKKVDEEAEAKMLEKYKQERL  
EEMFPDEVDTPRDVAARIRFQKYRGLKSFRTSPWDPKENLPQDYARIFQFQNFNTNRKSI  
FKEVEEKEVEGAEVGWYVTLHVSEVPVSVVECFRQGTPLIAFSLLPHEQKMSVLNMVVR  
DPGNTPEPVKAKEELIFHCGFRRFRASPLFSQHTAADKHKLQRFLTADMALVATVYAPITF  
PPASVLLFKQKSNGMHSIATGHLMSVDPDRMVIKRVVLSGHPFKIFTKMAVVRYMFFNR  
EDVLWFKPVELRTKWGRGHIKEPLGTHGHMKCSFDGKLKSQDVTLMNLYKRVFPKWTYD  
PYVPEPVPWLKSEISSTVPQGGME

>sp|Q8NOZ6|TTC5\_HUMAN Tetratricopeptide repeat protein 5 OS=Homo sapiens GN=TTC5 PE=1  
SV=2

MMADEEEEEVKPILQKLQELVDQLYSFRDCYFETHSVEDAGRKQQDVQKEMEKTLLQQMEEV  
VGSVQGKAQVLMLTGKALNVTDPDYSPKAEELLSKAVKLEPELVEAWNQLGEVYWKKGDA  
AAHTCFSGALTHCRNKVSLQNLMSVLRQLRTDTEDEHSHHVMDSVRQAKLAVQMDVHDGR  
SWYILGNSYLSLYFTGQNPKISQQALSAYAQAQEKVDRKASSNPDLHLNRATLHKYEESY  
GEALEGFSRAALDPAWPEPRREQQLLEFLDRLTSLLESKGKVKTKKLQSMLGSLRPAH  
LGPCSDGHYQSASGQKVTLELKPLSTLQPGVNSGAVILGKVVFSLTTEEKVPFTFGLVDS  
DGPCYAVMVYNIVQSWGVLIGDSVAIPEPNLRLHRIQHKGKDYSFSSVRVETPLLLVVNG  
KPQGSSSQAVATVASRPQCE

>sp|Q86TZ1|TTC6\_HUMAN Tetratricopeptide repeat protein 6 OS=Homo sapiens GN=TTC6 PE=2  
SV=1

MMKYYDLAKFTIYQIAEMDKGLSELSPMQQALIYSFCENHDKAIEVL DGISWNRAEMTMC  
ALLAKVQMKAKRTKEAVEVLKKALDAISHSDKGPDATAISADCLYNLGLCYMEEGNLQMT  
YKLAITDLTTAISMDKNSYTA FYNRALCYTKIRELQMALTDYGIVLLLDATETVKLNTFL  
NRGLIYVELGQYGFAL EDFKQAALISRTNGSLCHATAMCHHRINEFEEAVNFFT WALKIN  
PCFLDAYVGRGNSYMEYGHDEATKQAQKDFLKALHINPAYIKARISFGYNLQAQGFQKA  
WNHFTIAIDTDPKNLAYEGRAV VCLQMGNNFAAMQDINAAMKISTTAEFLTNRGVIHEF  
MGHKQNAMKDYQDAITLNP KYSLAYFNAGNIYFHHRQFSQASDYFSKALKFDPENEYVLM  
NRAITNTILKKYEEAKEDFANVIESCPFWAAVYFNRAHFY YCLKQYELAEEDLNKALSLK  
PNDALVYNFRAKVRGKIGLIEEAMADYNQALDLEDYASVI

>sp|Q92623|TTC9A\_HUMAN Tetratricopeptide repeat protein 9A OS=Homo sapiens GN=TTC9 PE=1 SV=3

MERKGSAAAGAKGNPSPPAAGEGQRPPPLCVPGGGGAPARGQVGA AAEPAELIRRAHEF  
KSQGAQCYKDKKFREAIGKYHRALLELKGLPPPGERERDSRPASPAGALKPGRLSEEQS  
KTVEAIEIDCYNSLAACLLQAELVNYERVKEYCLKVLKKEGENFKALYRSGVAFYHLGDY  
DKALYYLKEARTQQPTD TNVIRYIQLTEMKLSRCSQREKEAM

>sp|Q6ZVT0|TTL10\_HUMAN Inactive polyglycyclase TTL10 OS=Homo sapiens GN=TTL10 PE=1 SV=2

MDHSCTRFIHRGPPTRTRAGFKRGRPRIQQRP RARVSGTIPASRLHPAPASQPGPCPA  
PGHCPVGAHERPMGSSQEGLRCQPSQPDHDADGHCGPDLEGAERASATPGPPGLLSH  
RPADSDDTNAAGPSAALLEGLLLGGGKPSPHSTRPGPFYIGGSNGATI ISSYCKSKGWQ  
RIHDSRRDDYTLKWCEVKS RDSYGSFREGEQLLYQLPNNKLLTTKIGLLSTLRGRARAMS  
KASKVPGGVQARLEKDAAAPAE DL PWTSPGYLRPQRVLRMEEFFPETYRLDLKHEREAF  
FTLFDETQIWICKPTASNQKGIFLLRNQEEVAALQAKTRSMEDDPIHHKTPFRGPQARV  
VQRYIQNPLLVDGRKFDVRSYLLIAC TTPYMIFFGHGYARLTLSLYDPHSSDLGGHLTNQ  
FMQKKSPLYMLLKEHTVWSMEHLNRYISDTFWKARGLAKDWVFTTLKKRMQQIMAHCF LA  
AKPKLDCKLGYFDLIGCDFLIDNFKVW LLEMNSNPALHTNCEVLKEVIPGVV IETLDLV  
LETFRKSLRGQKMLPLLSQRRFVLLHNGEADPRPHLGSCSLRRWPPLPTRQAKSSGPPM  
PHAPDQPGARRPAPPLVPQRPRPPGPDLSAHDGEPQAPGTEQSGTGNRHPAQEPSPGT  
AKEEREENARP

>sp|Q9BZ98|TTY12\_HUMAN Putative transcript Y 12 protein OS=Homo sapiens GN=TTY12 PE=5 SV=1

MIDPETRHKAFLKAWPWQNSTITFVPGLAICHYSSVQVPRRGAILPMLYALCYVKMP SFQ  
HGPGRM YHLTCDWPRKMSLSCHVCRAHFRD

>sp|Q9H313|TTYH1\_HUMAN Protein tweety homolog 1 OS=Homo sapiens GN=TTYH1 PE=2 SV=1

MGAPPGYRPSAWVHLLHQLPRAD FQLRPVPSVFAPQEYQQALLLVAALAGLGLSLI  
FIAVYLIRFCCCRPEPPGSKIPSPGGGCVTWSCIVALLAGCTGIGIGFYGNSETSDGVS  
QLSSALLHANHTLSTIDHLVLETVERLGEAVRTELTTLEEVLEPRT ELVAAARGARRQAE  
AAAQQLQGLAFWQGVPLSPLQVAENVSFVEEYRWLAYVLLLLLELLVCLFTLLGLAKQSK  
WLVI VMTVMSLLVLVLSWGS MGLEAATAVGLSDFCSNPDYVNLNTQEETGLSSDILSY  
LLCNRAVSNPFQQLTLSQRALANIHSQ LGLEREAVPQFPSAQKPLLSLEETLNVTEGN  
FHQLVALLHCRSLHKDYGAALRGLCEDALEGLLFLLLFSLLSAGALATALCSLPRAWALF  
PPSDDYDDTDDDDPFNPQESKRFVQWQSSI

>sp|P50607|TUB\_HUMAN Tubby protein homolog OS=Homo sapiens GN=TUB PE=1 SV=1

MTSKPHSDWIPYSVLDD EGRNL RQQKLD RQRALLEQKQKKKRQEPLMVQANADGRPRSRR  
ARQSEEQAPLVESYLSSSGSTS YQVQEADSLASVQLGATRPTAPASAKRTKAAATAGGQG

GAARKEKKGKHGKGTSGPAALAEKSEAQGPVQILTVGQSDHAQDAGETAAGGGERPSGQD  
LRATMQRKGISSMSFDEDEDEEENSSSSQLNSNTRPSSATSRKSVREAASAPSPTAP  
EQPVDVEVQDLEEFALRPAPQGITIKRITRDKKGMGRMYPTYFLHLDREDGKKVFLLA  
GRKRKSKTSNYLISVDPTDLSRGGDSYIGKLRNLMGTFVYDNGVNPQKASSSTLES  
GTLRQELAAVCYETNVLGFKGPRKMSVIVPGMNMVHERVSIRPRNEHETLLARWQNKNT  
SIIELQNKTPVWNDDTQSYVLNFHGRVTQASVKNFQIIHGNDPDYIVMQFGRVAEDVFTM  
DYNPLCALQAFALSSFDSKLACE

>sp|P01858|TUFT\_HUMAN Phagocytosis-stimulating peptide OS=Homo sapiens PE=1 SV=1  
TKPR

>sp|000295|TULP2\_HUMAN Tubby-related protein 2 OS=Homo sapiens GN=TULP2 PE=2 SV=2  
MSQDNDTLMRDILGHELAAMRLQKLEQQRRLEKKQRQKRQELLMVQANPDASPWLWRSC  
LREERLLGDRGLGNPFLRKKVSEAHLPSGIHSALGTVSCGGDGRGERGLPTPRTEAVFRN  
LGLQSPFLSWLPDNSDAELEEVSVENGVSPPPFKQSPRIRRKGWQAHQRPGTAEAGESD  
SQDMGDAHKSPNMGPNPGMDGDCVYENLAFQKEEDLEKKREASESTGTNSSAAHNEELSK  
ALKGEGGTDSDHMRHEASLAIRSPCPGLEEDMEAYVLRPALPGTMMQCYLTRDKHGVDKG  
LFPLYLYLETSDSLQRFLLAGRKRRRSKTSNYLISLDPTHLSRDGDNFVGKVRSNVFST  
KFTIFDNGVNPDRHLTRNTARIRQELGAVCYEPNVLYLGPVKMTVILPGTNSQNRIN  
VQPLNEQESLLSRYQRGDKQLLLHNTKPSWDKENGVTNLNFHGRVTRASVKNFQIVDP  
KHQHLVLQFGRVGPDTFTMDFCFPFSPQLAFSICLSSFN

>sp|Q9NRJ4|TULP4\_HUMAN Tubby-related protein 4 OS=Homo sapiens GN=TULP4 PE=1 SV=2  
MYAAVEHGPVLCSDSNILCLSWKGRVPKSEKEKPCRRRYEEGWLATGNRGVVGVTFT  
SSHCRDRSTPQRINFNLRGHNSEVVLVRWNEPYQKLATCDADGGIFVWIQYEGRWSVEL  
VNDRGAQVSDFTWSDGTQALISYRDGFVLVGSVSGQRHWSSEINLESQITCGIWTDDQ  
QVLFGTADGQVIVMDCHGRMLAHVLLHESDGLGMSWNYPIFLVEDSSESDDSDDYAPP  
QDGPAAYPPIPVQNIKPLLTVSFTSGDISLMNYYDDLSTPTVIRSGLKEVVAQWCTQGDLA  
VAGMERQTLGELPNGPLLSAMVKFYNVRGEHIFTLDTLVQRPIISICWHRDSRLMA  
SGPALYVVRVEHRVSSLQLLCQQAIASTLREDKDVSKLTLPPLCSYLSTAFIPTIKPPI  
PDPNNMRDFVSYPASAGNERLHCTMKRTEDDPEVGGPCYTLYLEYLGLLVPILKGRRISK  
RPEFVIMDPRTDSKPDIEYGNLISTVIDSCNCSDDIELSDDWAACKSPKISRASKSP  
KLPRISIEARKSPKLPRAAQELSRSPRLPLRKPSVGSPLTRREFPFEDITQHNYLAQVT  
SNIWGTGKFIVGLAAFLPTNLGAVIYKTSLLHLQPRQMTIYLPEVRKISMDYINLPVFN  
NVFSEDEDDLPTVGASGVPENSPCTVNIPAPIHSSAQAMSPTQSIGLVQSLLANQNVQ  
LDVLTNQTTAVGTAEHAGDSATQYPVSNRYSNPGQVIFGSVEMGRIIQNPPLSLPPPPQ  
GPMQLSTVGHGDRDHEHLQSAKALRPTQLAAEGDAVVSAPQEVQVTINPPPPYPGT  
IPAAPTTAAPPPLPPPQPPVDVCLKKGDFFSLYPTSVHYQTPLGYERITTFDSSGNVEEV  
CRPRTRMLCSQNTYTLPGPGSSATLRLTATEKKVPQPCSSATLNRLTVPRYSIPTGDPPP  
YPEIASQLAQGRGAAQRSDNSLIHATLRRNNREATLKMAQLADSPRAPLQPLAKSKGGPG  
GVVTQLPARPPPALYTCSQCSGTGPSSQPGASLAHTASASPLASQSSYSLLSPDSDRDR  
TDYVNSAFTEDALSQHCQLEKPLRHPPLPEAAVTLKRPPPYQWDPMLGEDVWVPQERTA  
QTSGPNPLKLSSMLSQGHLDVSRLPFISPKSPASPTATFQTGYGMGVYPGSGYNNPPL  
PGVQAPCSPKDALSPTQFAQQEPVAVLQPLYPPSLSYCTLPPMPGSSTCSSLQLPPVAL  
HPWSSYSACPPMQNPQGTLPKPHLVVEKPLVSPPPADLQSHLGTEVMVETADNFQEVLS  
LTESPVQRTEKFGKKNRKLDSRAEESVQAITEGKVKKEARTLSDFNSLISSPHLGRE  
KKKVKSQDKLKSCKLNKTNEFQDSSESEPELFI SGDEL MNQS QGSRKGWKS KRSPRAAG

ELEEAKCRRASEKEDGRLGSQGFVYVMANKQPLWNEATQVYQLDFGGRVTQESAKNFQIE  
LEGRQVMQFGRIDGSAYILDFQYPFSAVQAFVALANVTQRLK

>sp|Q2TAM9|TUSC1\_HUMAN Tumor suppressor candidate gene 1 protein OS=Homo sapiens GN=TUSC1  
PE=1 SV=3

MGPMWMRGGATRRGSCCGDGAADGRGPGRSGRARGGSPSGGGGGVGRGRADGARQQ  
LEERFADLAASHLEAIRARDEWDRQNARLRQENARLRLENRRLKRENRSLEFRQALRLPGE  
GGNGTPAEARRVPEEASTNRRARDSGREDEPGSPRALRARLEKLEAMYRRALLQLHLEQR  
GPRPSGDKEEQPLQEPDGLRSRDSEPSGPWL

>sp|Q8WVJ9|TWIST2\_HUMAN Twist-related protein 2 OS=Homo sapiens GN=TWIST2 PE=1 SV=1

MEEGSSSPVSPVDSLGTSEEELERQPKRFGRKRRYSKKSSEDGSPTPGKRGKKGSPSAQS  
FEELQSQIRILANVRERQRTQSLNEAFAALRKIIPTLP SDKLSKIQTLKLAARYIDFLYQV  
LQSDMDNKMTSCSYVAHERLSYAFSVWRMEGAWSMSASH

>sp|AOA0J9YWL9|TX13C\_HUMAN Testis-expressed sequence 13C protein OS=Homo sapiens  
GN=TEX13C PE=5 SV=1

MAMNFGDHASGFRHDDVIRFINNEVLNNGGSPAFYTAFRSRPWNEVEDRLRAIVADPRVP  
RAIKRACTWSALALSQVAARQQEELLYQVWWLQGHVEECQATSWALTSQLQQLRLEHEE  
VATQLHLTQAALQQVLNERDGLCGRLLEVERSMQVYPMPQDFVPGPEAGQYGPVAGTLNA  
EQSEAVATEAQGMPHSEAQVAAPTAVYYMPEPQSGRVQGMQPLLLMQAPHPVPFHMPSPM  
GLPYSTPLPPPVMESAAAIA PQMPAGIYPPGLWATVGSQEETAPPWDQKCHGQDGYPE  
NFQGVYHPGDNRSNCNQKEGSECPQGMTSQGDSSSHSLKKDPVMQEGTAPPEFSRSHSLEK  
KPVMPKEMVPLGDSNSHSLKKDPVVPKEIVPIGDSNSHSLTKNPVVKEMVSLGDSNSHS  
MKKDPVMPQKMVPLGDSNSHSLKKDPMQCQEMVPLGDSNSHSLKKDPVVAQGTAPLMYSR  
RHSQKKVPMPKEMVPLGESHSLSLKKDLVVPKELVPLGDSKSHRMKKDPVMPQKMVPLG  
DSRSHSLKKDPVMPQNMIPLEDNSHSLKKDPVMPQNMIPLEDNSHSLKKDPMMHQEMV  
PLGDSNSHSLKKDPVVPQDTAPLMFSRRHSLKKVPMPKEMVPLGDSHSLKKDPVMPQNM  
VPLEDSNSHSLKKDPVVPQGTAPLMFSRRHSLKKVPMPKEMVPLGDSNSHSLKKDPVVP  
QGTAPLMFSRRHSLKKVPMPKEMVPLGDSHSLKKDPVMPQNMVPLEDSNSHSLKKDPVV  
PQGTAPLTFRRHSLKKVPVVPQGTASLGFSRIHSLKKELVMPEEMVPLGDSNSHSMKKD  
LVMPKEMVPLGDSNSHSLKKDPVHVQEVVSLGDSNSHSLKKHPVIPQGTASLRFKSHSQ  
KEDQERPVQTPLEDSSKSHGVKNSPWKHQPQGGQKVKEQKRKKASESQQKQPASCSSPVNWA  
CPWCNAMNFPNKKVCSKCKRVRMPVENGSDPA

>sp|O14907|TX1B3\_HUMAN Tax1-binding protein 3 OS=Homo sapiens GN=TAX1BP3 PE=1 SV=2  
MSYIPGQPVTAVVQRVEIHKLRQGENLILGFSIGGGIDQDPSQNPFSQDQTDKGIYVTRV  
SEGGAETIAGLQIGDKIMQVNGWDMTMVTHDQARKRLTKRSEEVVRLLVTRQSLQKAVQQ  
SMLS

>sp|Q9BZA5|TXNG2\_HUMAN Putative gamma-taxilin 2 OS=Homo sapiens GN=TXLNGY PE=5 SV=3

MEEAGLCGLREKADMLCNSESHDILQHQDSNCSATSNKHLLLEDEEGRDFITKNRSWVSPV  
HCTQESRRELPEQEVAPPSGQQALQCNRNKEKVLGKEVLLMQALNTLSTPEEKLAALCK  
KYADLGN SPL

>sp|O15391|YY2\_HUMAN Transcription factor YY2 OS=Homo sapiens GN=YY2 PE=2 SV=1

MASNEDFSITQDLEIPADIVELHDINVEPLPMEDIPTESVQYEDVDGNWIYGGHNHPPLM  
VLQPLFTNTGYGDHDEMLMLQTQEEVVG YCDSDNQLGNDLEDQLALPDSIEDEHFQMTL  
ASLSASAASTSTQSRSKKPSKPKSGKSATSTEANPAGSSSSLGTRKWEQKMQMVKTLE  
GEFSVTMWSPNDNNDQGA VEGGQAENPPDYSEYLGKKLPPGGPLPGIDLSDPKQLAEFTK

VKPKRSKGEPKTVPCSYSGCEKMFRDYAAMRKHLHIHGPRVHVCAECGKAFLESSKLRR  
HQLVHTGEKPFQCTFEGCGKRFSLDFNLRTHLRIHTGDKPFVCPFDVCNRKFAQSTNLKT  
HILTHVKTKNP

>sp|A8MUK1|U17L5\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 5 OS=Homo sapiens GN=USP17L5 PE=3 SV=2

MEDDSLVLRGWQFNHFSKLTSSRPDAFAEIQRTSLPEKSPLSCETRVDLCDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQHVLIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPQH  
KQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDFTDPYLDIALDIQAAQSVQQAQLEQL  
AKPEELNGENAYHCGVCLQAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQPNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSLLNLSSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|C9JLJ4|U17LD\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 13 OS=Homo sapiens GN=USP17L13 PE=3 SV=1

MEEDSLVLGGWQFNHFSKLTSSRLDAFAEIQRTSLPEKSPLSCETRVDLCDLVPEAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQHVLIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPQH  
KQVDHPSKDTTLIHQIFGGYWRSQIKCLHCHGISDFTDPYLDIALDIQAAQSVQQAQLEQL  
VKPEELNGENAYHCGVCLQAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQQNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDAEVTAASIT  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDRWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSLLNLSSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|D6R901|U17LL\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 21 OS=Homo sapiens GN=USP17L21 PE=3 SV=1

MEEDSLVLGGWQFNHFSKLTSSRPDAFAEIQRTSLPEKSPLSCETRVDLCDLAPVAR  
QLAPREKLPLSNRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQHVLIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPQH  
KQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDFTDPYLDIALDIQAAQSVQQAQLEQL  
VKPEELNGENAYHCGVCLQAPASKMLTLLTSKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQPNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSLLNLSSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|D6RBM5|U17LN\_HUMAN Putative ubiquitin carboxyl-terminal hydrolase 17-like protein 23 OS=Homo sapiens GN=USP17L23 PE=5 SV=1

MEDDSLVLGGWQFNHFSKLTSSRPDAFAEIQRTSLPEKSPLSCETRVDLCDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPQHVLIQPSQALAAGFHRGKQEDAHEFLMFTVDAMEKACLPQH  
KQV

>sp|O43818|U3IP2\_HUMAN U3 small nucleolar RNA-interacting protein 2 OS=Homo sapiens GN=RRP9 PE=1 SV=1

MSATAAARKRGKPASGAGAGAGAKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAP  
RKPEEEEEEELEETAQEKKLRLAKLYLEQLRQQEEEAEARAFEEDQVAGRLKEDVLEQR  
GRLQKLVAKEIQAPASADIRVLRGHQLSITCLVVTTPDDSAIFSAAKDCSIIKWSVESGRK  
LHVIPRAKKGAEGKPPGHSSHVLCAISSDGKYLASGDRSKLILWEAQSCQHLYTFTGH  
RDAVSGLAFRRGTHQLYSTSHDRSVKVVNVAENSYVETLFGHQDAVAALDALSRECCVTA  
GGRDGTVRVWKIPEESQLVFYGHQGSIDCIHLINEEHVMVSGADDGSVALWGLSKKRPLAL  
QREAHGLRGEPGLEQPFWISSVAALLNTDLVATGSHSSCVRLWQCGEGFRQLDLLCDIPL  
VGFINSCLKFSSSGDFLVAGVGQEHRLGRWWRIKEARNSVCIIPLRVPVPPAAGS

>sp|Q15029|U5S1\_HUMAN 116 kDa U5 small nuclear ribonucleoprotein component OS=Homo sapiens  
GN=EFTUD2 PE=1 SV=1

MDTDLYDEFGNYIGPELDSDEDDDELGRETKDLDEMDDDDDDDDVGDHDDHDPGMEVVLH  
EDKKYYPTAEVYGPVETIVQEEDTQPLTEPIIKPVKTKKFTLMEQTLPTVYEMDFLA  
DLMDNSELIRNVTLCGHLHHGKTCFVDCLIEQTHPEIRKRYDQDLCYTDILFTEQERGVG  
IKSTPVTVVLPTDKGKSYLFNIMDTPGHVNFSDVETAGLRISDGVVLFIDAAEGVMLNTE  
RLIKHAVQERLAVTVCINKIDRLILELKLPTDAYYKLRHIVDEVNGLISMYSTDENLIL  
SPLLGNVCFSSSQYSICFTLGSFAKIYADTFGDINYQEFAKRLWGDIFYNPKTRKFTKKA  
PTSSSQRSFVEFILEPLYKILAQVVGVDVTSLPRTLDELGIHLTKEELKLNIRPLLRLVC  
KKFFGEFTGFVDMCVQHIPSQKVGAKPKIEHTYTGGVSDLGEAMSDCDPDGMLMCHTTK  
MYSTDDGVQFHAFGRVLSGTIHAGQPVKVLGENYTLDEEDSQICTVGRLWISVARYHIE  
VNRVPAGNVWLIEGVDQPIVKTATITEPRGNEEAQIFRPLKFNTTSVIKIAVEPVNPSEL  
PKMLDGLRKVNKSYPSLTTKVEESGEHVILGTGELYLDCVMHDLRKMYSIDIKVADPVV  
TFCETVVETSSLKCAETPNKKNKITMIAEPLEKGLAEDIENEVVQITWNRKKLGEFFQT  
KYDWDLLAARSIWAFGPDATGPNILVDDTLPSEVDKALLGSVKDSIVQGFQWGTRGGLC  
DELIRNVKFKILDVVAQEPLHRGGGQIIPTARRVVYSAFLMATPRLMEPYFVEVQAPA  
DCVSAVYTVLARRRGHVTDAPIPGSPLYTIKAFIPAIDSFGFETDLRHTTQGAQFSLSV  
FHHWQIVPGDPLDKSIVIRPLEPQPAPHLAREFMIKTRRRKGLSESVSISKFFDDPMLLE  
LAKQDVVLNYPM

>sp|Q3KQV9|UAP1L\_HUMAN UDP-N-acetylhexosamine pyrophosphorylase-like protein 1 OS=Homo  
sapiens GN=UAP1L1 PE=1 SV=2

MASEQDVRARLRAGQEHLRWFVAELAPEPRAALLAELALLEPEALREHCRRAAEACARP  
HGPPDLAARLRPLPPERVGRASRSDPETRRRWEEEGFRQISLNKVAVLLLAGGQGTRLG  
VTPKGMRYVGLPSRKTLYQLQAERIRRVEQLAGERHGTCTVPWYVMTSEFTLGPTAEF  
FREHNFFHLDPANVVMFEQRLPAVTFDGKVIKERKDKVAMAPDGNGGLYCALEDHKILE  
DMERRGVFEVHVYCVNILVRLADPVFIGFCVLQGADCGAKVVEKAYPEEPVGVCQVDG  
VPQVVEYSEISPETAQLRASDGSLLYNAGNICNHFFTRGFLKAVTREFEPLLKPHVAVKK  
VPYVDEEENLVKPLKPNGIKMEKFVFDVFRFAKNFAALEVLREEFSPLKNAEPADRDSP  
RTARQALLTQHYRWALRAGARFLDAHGAWLPELPSLPNGDPPAICEISPLVSYSGEGL  
VYLQGREFQSPLILDEDQAREPQLQES

>sp|Q16222|UAP1\_HUMAN UDP-N-acetylhexosamine pyrophosphorylase OS=Homo sapiens GN=UAP1  
PE=1 SV=3

MNINDLKLTLKAGQEHLRWFNELEEAQQVELYAEQAMNFEELNFFFQKAIEGFNQSS  
HQKNVDARMEPVPREVLGSATRDQDLQAWESEGLFQISQNKVAVLLLAGGQGTRLGVAY  
PKGMYDVGLPSRKTFLQIQAERILKLQQVAEKYYGNKCIIPWYIMTSGRTMESTKEFFTK  
HKYFGLKKENVIFFQQGMLPAMSFQDKIILEEKNKVSMA PDGNGGLYRALAAQNIVEDME

QRGIWSIHVYCVDNILVKVADPRFIGFCIQKGADCGAKVVEKTNPTPEVGVVCRVDGVYQ  
VVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTVPFRLDVNVYEPQLQHHVAQKKIPY  
VDTQGQLIKPDKPNGIKMEKFVFDIFQFAKKFVVYEVLRDEFSPLNADSQNGKDNPTT  
ARHALMSLHHCWVLNAGGHFIDENGSRPAIPRSATNGKSETITADVNHNKLDANDVPIQ  
CEISPLISYAGEGLESYVADKEFHAPLIIDENGVELVKNGI

>sp|Q9Y2X8|UB2D4\_HUMAN Ubiquitin-conjugating enzyme E2 D4 OS=Homo sapiens GN=UBE2D4 PE=1  
SV=1

MALKRIQKELTDLQRDPPAQCSAGPVGDDLFWQATIMGPNDSPYQGGVFFLTIHFPTDY  
PFKPPKVAFTTKIYHPNINSNGSICLDILRSQWSPALTVSKVLLSICSLLCDPNPDDPLV  
PEIAHTYKADREKYNRLAREWTQKYAM

>sp|Q969T4|UB2E3\_HUMAN Ubiquitin-conjugating enzyme E2 E3 OS=Homo sapiens GN=UBE2E3 PE=1  
SV=1

MSSDRQRSDDSPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKNTKLSSKTTAKLS  
TSAKRIQKELAEITLDPPPNCASAGPKGDNIYEWSTILGPPGSVYEGGVFFLDITFSSDY  
PFKPPKVTFRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLV  
GSIATQYLTNRAEHDRIARQWTKRYAT

>sp|P62253|UB2G1\_HUMAN Ubiquitin-conjugating enzyme E2 G1 OS=Homo sapiens GN=UBE2G1 PE=1  
SV=3

MTELQSALLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPDTLYEGGVFKAHLT  
FPKDYPLRPPKMFITEIWHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLPIHTVETI  
MISVISMLADPNGDSPANVDAAKEWREDRNGEFKRKVARCVRKSQETAFE

>sp|Q9Y385|UB2J1\_HUMAN Ubiquitin-conjugating enzyme E2 J1 OS=Homo sapiens GN=UBE2J1 PE=1  
SV=2

METRYNLKSPAVKRLMKEAAELKDPTDHYHAQPLEDNLFWEHFTVRGPPDSDFDGGVYHG  
RIVLPPEYPMKPPSIILLTANGRFVGGKICLSISGHPETWQPSWSIRTALLAIIGFMP  
TKGEGAIGSLDYTPERRALAKKSQDFCCEGCGSAMKDVLLPLKSGDSSQADQEAKELA  
RQISFKAENVSSGKTISESDLNHSFSLTDLQDDIPTTFQGATASTSYGLQNSSAASFHQ  
TQPVAKNTSMSPRQRAQQSQRRLLSTSPDVIQGHQPRDNHTDHGGS AVLIVILTLALAA  
LIFRRIYLANEYIFDFEL

>sp|P49427|UB2R1\_HUMAN Ubiquitin-conjugating enzyme E2 R1 OS=Homo sapiens GN=CDC34 PE=1  
SV=2

MARPLVPSSQKALLLELKGLQEEPVEGFRVTLVDEGDLYNWEVAIFGPPNTYYEGGYFKA  
RLKFPIDYPYSPPAFRFLTMMWHPNIYETGDVCISILHPPVDDPQSGELPSERWNPTQNV  
RTILLSVISLLNEPNTFSPANVDASVMYRKWKESKGDREYTDIIRKQVLGTVDAERDG  
VKVPTTLAEYCVKTKAPAPDEGSDLFYDDYEDGEVEEEADSCFGDDEDDSGTEES

>sp|Q5T6F2|UBAP2\_HUMAN Ubiquitin-associated protein 2 OS=Homo sapiens GN=UBAP2 PE=1 SV=1

MMTSVSSDHCARGAREKPKISAAQSTQPQKQVVQATAEQMRLAQVIFDKNDSDFEAKVKQL  
MEVTGKNQDECIVALHDCNGDVNKAINILLEGNSDTTSWETVCGCKKNFAKENSENKENR  
EKKSEKSSRGRGNNRKGRGGNRGREFRGEENGIDCNQVDKPSDRGKRARGRGFRGRG  
RGAGRFSTQGMGTFPADYSDSTSTDVCGTKLVVWAAQNGADEGTELASNTHNIAQDLS  
NKSSYGLKGAWKNSVEEWTEDLTSETKVFTASSAPAENHILPGQSIDLVALLQKPV  
PHSQASEANSFETSQQQGFGQALVFTNSQHNNQMAPGTGSSTAVNSCSPQSLSSVLGSGF  
GELAPPKMANITSSQILDQLKAPSLGQFTTTPSTQQNSTSHPTTTTSDWLKPPTSQSSVL  
SHLDFKSQPEPSPVLSQLSQRQQHQSQAQVTVPPPGLESFSPQAKLRESTPGDSPSTVNKL

LQLPSTTIENISVSVHQPPKHIKLAKRRIPPASKIPASAVEMPGSADVTGLNVQFGALE  
FGSEPSLSEFGSAPSSSENSQIPISLYSKSLSEPLNTSLSMSTSAVQNSTYTTTSVITSCSL  
TSSSLNSASPVAMSSSYDQSSVHNRIPIYQSPVSSSESAPGTIMNGHGGGRSQQTLDTPKT  
TGPPSALPSVSSLPSTTCTALLPSTSQHTGDLTSSPLSQLSSSLSSHQSSLSAHAALSS  
STSHTHASVESASSHQSSATFSTAATSVSSSASSGASLSSMNTANSLCLGGTPASASSS  
SSRAAPLVTSGKAPPNLPQGVPPLLHNQYLVGPGGLLPAYPIYGYDELQMLQSRLPVDYY  
GIPFAAPTALASRDGSLANNPYPGDVTGFRGDSASPAPATTPAQPPQSSQSTHHTAQQP  
FVNPAALPPGYSYTGLPYYTGMPSAFQYGPTMFVPPASAKQHGVNLSTPTPPFQQASGYGQ  
HGYSTGYDDLQGTAAAGDYSGGYAGSSQAPNKSAGSGPGKGVSVSSSTGLPDMTGSVY  
NKTQTDFDKQGFHAGTPPPFSLPSVLGSTGPLASGAAPGYAPPPFLHILPAHQPHSQLLH  
HHLPPQDAQSGSGQRSQPSSLQPKSQASKPAYGNSPYWTN

>sp|O15205|UBD\_HUMAN Ubiquitin D OS=Homo sapiens GN=UBD PE=1 SV=2

MAPNASCLCVHVRSEEWDLMTFDANPYDSVKKIKEHVRSTKVPVQDQVLLLGSKILKPR  
RSLSSYGIDKEKTIHLTLKVKPSDEELPLFLVESGDEAKRHLLQVRRSSSVAQVKAMIE  
TKTGIIIPETQIVTCNGKRLDGGKMMADYGIRKGNLLFLACYCIGG

>sp|P63146|UBE2B\_HUMAN Ubiquitin-conjugating enzyme E2 B OS=Homo sapiens GN=UBE2B PE=1  
SV=1

MSTPARRRLMRDFKRLQEDPPVGVS GAPSENNIMQWNAVIFGPEGTPFEDGTFLVIEFS  
EEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNRWSPTYDVSSILTSIQSLLDEPNPNS  
PANSQAAQLYQENKREYKRVSAIVEQSWNDS

>sp|POCB47|UBFL1\_HUMAN Upstream-binding factor 1-like protein 1 OS=Homo sapiens GN=UBTFL1  
PE=3 SV=1

MALPRSQGHWSNKDILRLLECMENNRPSDDNSTFSSTQSHMDWGKVAFKNFSGEMCRLKW  
LEISCNLRKFGLTKELVLEAKKCVKMNKSQKYRNGPDFPKRPLTAYNRFFKESWPQYSQ  
MYPGMRSELTKILSKKYRELPEQMKQKYIQDFRKEKQEFEEKLARFREEHPDLVQKAKK  
SSVSKRTQNKVQKKFQKNIEEVRLPKTD RFFKVKVFHGEPPQKPPMNGYHKFHQDSWSSK  
EMQHLSVRERMVEIGRRWQRIPQSQKDHFKSQAELQKQYKVKLDLWLKTLSPENYAAK  
ESTYAKGKNMAMTGGPDPRLLKQADPQSSSAKGLQEGFGEGQLQAAGTDSSQTIWVNCHV  
SMEPEENRKKDREKEESSNSDCSSGEEIEVDV

>sp|POCB48|UBFL6\_HUMAN Putative upstream-binding factor 1-like protein 6 OS=Homo sapiens  
GN=UBTFL6 PE=5 SV=1

MPAKDIKVALPRSQGHWSNADILRLLECMENNL PYDDNGTFSSTQSHMDWGKVAFKNFSG  
EMCRLKWLEISCSLRKFSTLKKLVLEAKKCVKNTNKSQKGRNHPDFPKRLLTAYIRFFKE  
NWPQYSQMYPGMRSEQEVTILSKKYKELPEQMKQKHIQDFRKEKQEFEEKLARFREEHPD  
LDQKGKSDICKRVQTKVQKKVQKNIEEVRLPKTDQFFKVKVFHGEPPQKPPMNGYQKFH  
QDSWSSKELQHLSLRERMVEIGRRWQRIPQSQKDHYSQAELLQKEYKVELDLWLKTLSP  
EDYAAKESTYAKGKNMAMMGAPSLKQTDPPQSSSAKGLQEGFGEGQLQAAGTEASQT  
IWNVCQVSMEPEDNRKKDGEEESSNSLDCSSGEDMEVDV

>sp|Q5TAX3|TUT4\_HUMAN Terminal uridylyltransferase 4 OS=Homo sapiens GN=ZCCHC11 PE=1 SV=3

MEESKTLKSENHEPKKNVICEESKAVQVIGNQTLKARNDSVKEIENSSPNRNSSKKNKQ  
NDICIEKTEVKSCVNAANLPGPKDLGLVLRDQSHCKAKKFPNSPVKAEKATISQAKSEK  
ATSLQAKAEKSPKSPNSVKA EKASSYQMKSEKVPSSPAEAEKGPSLLLKDMRQKTELQQI  
GKKIPSSFTSVDKVNI EAVGGEKCALQNSPRSQQQTCTDNTGSDDSASGIEDVSDDL  
KMKNDESNKENSSEMDYLENATVIDESALTPEQRLGLKQAEERLERDHFRLERKSPEYT



NCRYLCKLC LIHIENIQGAHKHIKEKRHKKNILEKQEESELRLPPPSAHLAALSVAVI  
ELAKEHGITDDDLRVRQEIVEEMSKVITTFLEPCSLRLYGSSLTRFALKSSDVNIDIKFP  
PKMNHPDLLIKVLGILKKNVLYVDVESDFHAKVPVVVCRDRKSGLLCRVSAGNDMACLTT  
DLLTALGKIEPVFIPLVLAFRYWAKLCYIDSQTDGGIPSYCFALMVMFFLQQRKPPLLPC  
LLGSWIEGFDPKRMDDFQLKGIVEEFVKWECNSSSATEKNSIAEENKAKADQPKDDTKK  
TETDNQSNAMKEKHGKSPLALETNPNRVSLGQLWLELLKFYTLDFALEEYVICVRIQDILT  
RENKNWPKRRIAIEDPFSVKRNVARSLSQLVYEVVVERFRAAYRYFACPQTKGGNKSTV  
DFKKREKKGKISNKKPVKSNNMATNGCILLGETTEKINAEREQPVQCDEMDCTSQRCIIDN  
NNLLVNELDFADHGQDSSSLSTS KSSEIEPKLDKKQDDLAPSETCLKKELSQCNCIDLSK  
SPDPDKSTGTD CRSNLETESSHQSVCTDTSATSCNCKATEDASDLNDDNLP TQELYYVF  
DKFILTSGKPPTIVCSICKKDGHSKNDCPEDFRKIDLKPLPPMTNRFREILDVCKRCFD  
ELSPPCSEQHNREQILIGLEKFIQKEYDEKARLCLFGSSKNGFGFRDSDL DICMTLEGHE  
NAEKLNCKEIIENLAKILKRHPGLRNILPITTA KVPIVKFEHRRSGLEGDISLYNTLAQH  
NTRMLATYAAIDPRVQYLG YTMKVFAKRCDIGDASRGLSSYAYILMVLYFLQQRKPPI  
PVLQEIFDGKQIPQRMVDGWN AFFDKTEELKKRLPSLGKNTESLGELWLG LRFYTEEF  
DFKEYVISIRQKLLTTFEKQWTSKCI AIEDPFDLNHNLAGVSRKMTNFIMKAFINGRK  
LFGTPFYPLIGRAEYFFDSRVLTDGELAPNDRCCRVCGKIGHYMKDCPKRSLLFRLKK  
KDSEEEKEGNEEEKSDRDVLDPRDLHDTRDFRDLRCFICGDAGHVRRECPEVKLARQ  
RNSSVAAAQLVRNLVNAQQVAGSAQQQGDQSIRTRQSSECS ESYSPQPFPQNSSQS  
AAITQPSSQPGSQPKLGPQQGAQPPHQVQMPLYNFPQSPPAQYSPMHNMG L LPMHPLQI  
PAPSWPIHGPIH SAPGSAPSNIGLNDPSIIFAQPAARPAIPNTSHDGHWPRTVAPNSL  
VNSGAVGNSEPGFRGLTPPIPWEHAPRPHFPLVPASWPYGLHQNFMHQGNARFQPNKPFY  
TQDRCATRRCRERCPHPPRGNVSE

>sp|Q9P2J2|TUTLA\_HUMAN Protein turtle homolog A OS=Homo sapiens GN=IGSF9 PE=1 SV=2

MVWCLGLAVLSLVISQ GADGRGKPEVVS VVGRAGESVVLGCDLLPPAGRPLHVIEWLRF  
GFLLPIFIQFGLYSPRIDPDYVGRVRLQKGASLQIEGLRVEDQGWYECRVFFLDQHIPPED  
DFANGSWVHLTVNSPPQFQETPPAVLEVQELEPVTLRCVARGSP LPHVTWKLRGKDLGQG  
QGQVQVQNGTLRI RRVERGSSGVYTCQASSTEGSATHATQLLVLGPPVIVVPPKNSTVNA  
SQDVS LACHAEAYPANLTYSWFQDNINV FHSIRLQPRVRILVDGSLRLLATQPDDAGCYT  
CVPSNGLLHPPSASAYLTVLYPAQVTAMPPE TPLPIGMPGVIRCPVRANPPLL FVSWTKD  
GKALQLDKFP GWSQGTEGLIIALGNEDALGEYSCTPYNSLGTAGPSPVTRVLLKAPPAF  
IERPKEEYFQEVGRELLIPCSAQGDPPPVS WTKVGRGLQGQAQVDSNSSLILRPLTKEA  
HGHWECSASNAVARVATSTNVYVLGTSPHVVTNVSVVALPKGANVSWEPGFDGGYLQRFS  
VWYTPLAKRPDRMHHDWVSLAVPVGAHLLVPGLQPHTQYQFSVLAQNKLGSGPFSEIVL  
SAPEGLPTTPAAPGLPPT EIPPLSPPRGLVAVRTPRGVLLHWDPELV PKRLDGYVLEG  
RQGSQGWEVLDP AVAGTETELLVPGLIKDVL YEFRLVAFAGSFVSDPSNTANVSTSGLEV  
YPSRTQLPGLLPQPVL AGVVGVCFLGVAVLVSI LAGCLLNRRRAARRRRKRLRQDPPLI  
FSPTGKSAAPSALGSGSPDSVAKLKLQGSPVPSLRQSLLWGDPA GTPSPHPDPPSSRGPL  
PLEPICRGPDGRFVMGPTVAAPQERSGREQAEPRTPAQRLARSFDCSSSSPSGAPQPLCI  
EDISPVAPPPAAPPSP LPGPGPLLQYLSLPFFREMNV DGDWPPLEEPSAAPPDYMDTRR  
CPTSSFLRSPETPPVSPRESLPGAVVGAGATAEPPYTALADWTLRERLLPGLLPAAPRG S  
LTSQSSGRGSASFLRPPSTAPSAGGSYLSAPAGDTSSWASGPERWPREHVTVSKRRNT  
SVDENYEW DSEFPGDMELLETLHLGLASSRLRPEAEPELG VKTPEEGCLLNTAHVTGPEA  
RCAALREEFLAFRRRRDATRARLPAYRQPVPHPEQATLL

>sp|P04436|TVA1\_HUMAN T-cell receptor alpha chain V region HPB-MLT (Fragment) OS=Homo sapiens PE=2 SV=1

IFASLLRAVIASICVSSMAQKVTAQTEISVVEKEDVTLDCVYETRDTTYLFWYKQPP  
SGELVFLIRRNSFDEQNEISGRYSWNFQKSTSSFNFTITASQVVDASAVYFCALDSSASKI  
IFGSGTRLSIR

>sp|P01737|TVA3\_HUMAN T-cell receptor alpha chain V region PY14 OS=Homo sapiens PE=1 SV=1  
MLLLVPVLEVIFTLGGTRAQSVTQLGSHVSVSEGAIVLLRCNYSSSVPPYLFWYVQYPN  
QGLQLLLKYTSAATLVKGINGFEAEFKKSETSFHLTKPSAHMSDAAEYFCAVSDLEPNSS  
ASKIIFGSGTRLSIR

>sp|P01733|TVB1\_HUMAN T-cell receptor beta chain V region YT35 OS=Homo sapiens GN=TRBV12-3 PE=1 SV=1

MDSWTFCCVSLCILVAKHTDAGVIQSPRHEVTEMGQEVTLRCKPISGHNSLFWYRQTMMR  
GLELLIYFNNNVPIDDSGMPEDRFSAKMPNASFSTLKIQPSEPRDSAVYFCASSFSTCSA  
NYGYTFGSGTRLTVV

>sp|Q12792|TWF1\_HUMAN Twinfilin-1 OS=Homo sapiens GN=TWF1 PE=1 SV=3

MSHQTGIQASEDVKEIFARARNGKYRLKISIEQNLVIGSYSQPSDSWDKDYDSFVLPL  
LEDKQPCYILFRLDSQNAQGYEWIFIAWSPDHSVRQKMLYAATRATLKKEFGGGHIKDE  
VFGTVKEDVSLHGYKYLSSQSSPAPLTAEEEELRQIKINEVQTDVGVDTKHQTLQGVAF  
PISREAFQALEKLNRLQNLVYQLEIDIKNEIIILANTTNTELKDLPKRIPKDSARYHFFL  
YKHSHEGDYLESIVFIYSMPGYTCSIRERMLYSSCKSRLEIVERQLQMDVIRKIEIDNG  
DELTADFLYEEVHPKQHAHKQSFAPKGPAGKRGIRRLIRGPAETEATD

>sp|Q9P2K2|TXD16\_HUMAN Thioredoxin domain-containing protein 16 OS=Homo sapiens GN=TXNDC16 PE=1 SV=4

MFSGFNVFRVGISFVIMCIFYMPTVNSLPELSPQKYFSTLQPGKASLAYFCQADSPRTSV  
FLEELNEAVRPLQDYGISVAKVNCVKEEISRYCGKEKDLMKAYLFKGNILLREFPTDTLF  
DVNAIVAHVLFALLFSEVKYITNLEDLQNIENALKGKANIIFSIVRAIGIPEHRAVMEAA  
FVYGTTYQFVLTTETIALLESIGSEDVEYAHLYFFHCKLVLDLTQQCRRTLMEQPLTTLNI  
HLFIKTMKAPLLTEVAEDPQQVSTVHLQLGLPLVFIVSQATYEADRRTAEVVAWRLLGK  
AGVLLLLRDSLEVNIPQDANVVFRAEEGVPVEFLVLHDVLDLIISHVENNMHIEEIQEDE  
DNDMEGPDIDVQDDEVAETVFRDRKRKLPLELTVELTEETFNATVMASDSIVLFYAGWQA  
VSMFLQSYIDVAVKLKGTSTMLLTRINCADWSDVCTKQNVTEFPIIKMYKKGENPVSYA  
GMLGTEDLLKFIQLNRISYPVNITSIQEAEVYLSGELYKDLILYSSSVLGLFSPTMKTA  
KEDFSEAGNYLKGYVITGIYSEEDVLLSTKYAASLPALLARHTEGKIESIPLASTHAQ  
DIVQIITDALLEMFPEITVENLPSYFRLQKPLLILFSDGTVPNPQYKAILTLVKQKYLD  
FTPCWNLKNTPVGRGILRAYFDPLPLLVNLHSGGQVFAFPSDQATIEENLVLWL  
KKLEAGLENHITILPAQEWKPLPAYDFLSMIDAATSQRGTRKVPKCMKETDVQENDKEQ  
HEDKSARKEPIETLRKHNRSNWFKEAEKSFRRDKELGCSKVN

>sp|P83876|TXN4A\_HUMAN Thioredoxin-like protein 4A OS=Homo sapiens GN=TXNL4A PE=1 SV=1

MSYMLPHLHNGWQVDQAILSEEDRVVVIRFGHDWDPTCMKMDEVLYSIAEKVKNFAVIYL  
VDITEVPDFNKMYELYDPCTVMFFRNKHIMIDLTGNNNKINWAMEDKQEMVDIIETVY  
RGARKGRGLVSPKDYSTKYRY

>sp|Q6A555|TXND8\_HUMAN Thioredoxin domain-containing protein 8 OS=Homo sapiens GN=TXNDC8 PE=1 SV=2

MVQIIKDTNEFKTFLTAAGHKLAVVQFSSKRCGPCKRMFPVFHMSVKYQNVFFANVDVN

NSPELAETCHIKTIPTFQMFKKSQKVTLFSRIKRIICCYRSGFMSNLIFEFCGADAKKLE  
AKTQELM

>sp|P04818|TYSY\_HUMAN Thymidylate synthase OS=Homo sapiens GN=TYMS PE=1 SV=3

MPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGGIHIILRCGVRKDDRTGTGTLGVFG  
MQARYSLRDEFPLLTTRKRVFWKGVLEELLWFIKSTNAKELSSKGVKIWDANGSRDFLDS  
LGFSTREEGDLGPVYGFQWRHFGAEYRDMESDYSGQGVQDLQRVIDTIKTNPDDRRIIMC  
AWNPRDLPLMALPPCHALCQFYVNVNSELSCQLYQRSGDMGLGVPFNIASYALLTYMIAHI  
TGLKPGDFIHTLGAHIYLNHIEPLKIQLQREPRPFPKLRILRKVEKIDDFKAEDFQIEG  
YNPHPTIKMEMAV

>sp|Q6IPR3|TYW3\_HUMAN tRNA wybutosine-synthesizing protein 3 homolog OS=Homo sapiens  
GN=TYW3 PE=2 SV=2

MDRSAEFRKWKACLSKADLSRKGSVDEDVVELVQFLNMRDQFFTTSSCAGRILLDRGI  
NGFEVQKQNCWLLVTHKLCVKDDVIVALKKANGDATLKFEPFVLHVQCRQLQDAQILHS  
MAIDSGFRNSGITVKGKGTMLAVRSTHGLEVPLSHKGKLMVTEEYIDFLLNVANQKMEE  
NKKRIERFYNCLQHALERETMTNLHPKIKEKNSSYIHKKKRNPEKTRAQCITKESDEEL  
ENDDDDDLGINVTIFPEDY

>sp|P51965|UBE1\_HUMAN Ubiquitin-conjugating enzyme E2 E1 OS=Homo sapiens GN=UBE2E1 PE=1  
SV=1

MSDDDSRASTSSSSSSSNQTEKETNTPKKKESKVSMSKNSKLLSTSARKRIQKELADIT  
LDPPPNCSAGPKGDNIEWRSTILGPPGSVYEGGVFFLDITFTPEYFPKPPKVTFRTRIY  
HCNINSQGVICLDILKDNWSPALTISKVLLSICSLTDCNPADPLVGSIAQYMTNRAEH  
DRMARQWTKRYAT

>sp|O14933|UB2L6\_HUMAN Ubiquitin/ISG15-conjugating enzyme E2 L6 OS=Homo sapiens GN=UBE2L6  
PE=1 SV=4

MMASMRVVKELDLQKKPPPYLRNLSSDDANVLVWHALLPDQPPYHLKAFNLRISFPPE  
YPFKPPMIKFTTKIYHPNVDENGQICLPIISSENWKPKCTKCQVLEALNVLRPNIREP  
LRMDLADLLTQNPFLFRKNAEEFTLRFVDRPS

>sp|Q8WVN8|UB2Q2\_HUMAN Ubiquitin-conjugating enzyme E2 Q2 OS=Homo sapiens GN=UBE2Q2 PE=1  
SV=1

MSVSGLKAELKFLASIFDKNHERFRIVSWKLDELHCQFLVPQQGSPHSLPPPLTLHCNIT  
ESYPSSSPIWFDSEDPNLTSLVLERLEDTKNNLLRQQLKWLICELCSLYNLPHKLDVEM  
LDQPLPTGQNGTTEEVTSEEEEEEMAEDIEDLDHYEMKEEPISGKKSEDEGIEKENL  
AILEKIRKTQRQDHLNGAVSGSVQASDRLMKELRDIYRSQSYKTGIYSVELINDSLYDWH  
VKLQKVPDSPLHSDLQILKEGIEYILLNFSFKDNFPDPFVRVLPVLSGGYVLGG  
GALCMELLTKQGWSSAYSIESVIMQINATLVKGKARVQFGANKNQYNLARAQQSYNSIVQ  
IHEKNGWYTPPKEDG

>sp|Q8NBM4|UBAC2\_HUMAN Ubiquitin-associated domain-containing protein 2 OS=Homo sapiens  
GN=UBAC2 PE=1 SV=1

MFTSTGSSGLYKAPLSKSLLLVPSALSLLLALLLPHCQKLFVYDLHAVKNDFQIWRLICG  
RIICLDLKDFTCSSLLIYNFRIFERRYGRKFASFLGWSVLSALFDFLLIEAMQYFFGI  
TAASNLP SGFLAPVFALFVPFYCSIPRVQAQILGPLSITNKTLIYILGLQLFTSGSYIW  
IVAISGLMSGLCYDSKMFQVHQLCIPSWMAKFFSWTLEPIFSSSEPTSEARIGMGATLD  
IQRQRMELLDRQLMFSQFAQRRRQRRQQGGMINWNRLFPLRQRQNVNYQGGRQSEPAA  
PPLEVSEEQVARLMEMGFSRGDALEALRASNNDLNVATNFLQH

>sp|Q9NZ09|UBAP1\_HUMAN Ubiquitin-associated protein 1 OS=Homo sapiens GN=UBAP1 PE=1 SV=1  
MASKKLGADFHGTFSYLDDVPFKTGDKFKTPAKVGLPIGFSLPDCLQVVREVQYDFSLEK  
KTIEWAEEIKKIEEAEREAECKIAEAEAKVNSKSGPEGDSKMSFSKTHSTATMPPPINPI  
LASLQHNSILTPTRVSSATKQKVLSPPHIKADFNLADFECEEDPFDNLELKTIDEKEEL  
RNILVGTGPIMAQLLDNNLPRGGSGSVLQDEEVLASLERATLDFKPLHKPNGFITLPQL  
GNCEKMSLSSKVSLPPIPAVSNISLSFPKLDSDDSNQKTAKLASTFHSTSCLRNGTFQN  
SLKPSTQSSASELNGHHTLGLSALNLDGTEMPALTSSQMPSLSVLSVCTEESPNTGP  
TVTPPNFSVSQVPNMPSCPQAYSELQMLSPSERQCVETVNMGYSECVLRAMKKKGENTI  
EQILDYLFAGHQLCEKGFDPDLLVEEALEMHQCSECKMMEFLQLMSKFKEMGFELKDIKEV  
LLLHNNDQDNALEDLMARAGAS

>sp|P61081|UBC12\_HUMAN NEDD8-conjugating enzyme Ubc12 OS=Homo sapiens GN=UBE2M PE=1 SV=1  
MIKLFSLKQQKKEESAGGTGSGSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLNF  
KLVICPDEGFYKSGKFVFSFKVGGYPHDPKVKCETMVYHPNIDLEGNVCLNILREDWK  
PVLTIINSIIYGLQYLFLEPNPEDPLNKEAAEVLQNNRRLFEQNVQRSMRGGYIGSTYFER  
CLK

>sp|P63279|UBC9\_HUMAN SUMO-conjugating enzyme UBC9 OS=Homo sapiens GN=UBE2I PE=1 SV=1  
MSGIALSRLAQRKAWRKDHPFGFVAVPTKNPDGTMNLMNWECAIPGKKGTPWEGGLFKL  
RMLFKDDYPSSPPCKCFEPPLFHPNVYPSGTVCLSILEEDKDWPAITIKQILLGIQELL  
NEPNIQDPAQAEAYTIYCQNRVEYEKRVRAQAKKFAPS

>sp|Q14139|UBE4A\_HUMAN Ubiquitin conjugation factor E4 A OS=Homo sapiens GN=UBE4A PE=1  
SV=2

MTDQENNNNISSNPFAALFGSLADAKQFAAIQKEQLKQQSDELPASPDSDNSVSESLDE  
FDYSVAEISRSFRSQEICEQLNINHMIQRIFLITLDSNPDLKSGNGIPSRVYLEEMA  
VELEDQDWLMSNVEQALFARLLLQDPGNHLINMTSSTTLNLSADRDAGERHIFCYLYSC  
FQRAKEEITKVPENLLPFAVQCRNLTVSNTRTVLLTPEIYVDQNIHEQLVDLMLEAIQGA  
HFEDVTEFLEEVI EALILDEEVRTPEVMIPVFDILLGRIKDLELCQILLYAYLDILLYF  
TRQKDMAKVFVEYIQPKDPTNGQMYQKTLLGVILSISCLLKTPGVVENHGYFLNPSRSSP  
QEIKVQEANIHQFMAQFHEKIYQMLKNLLQLSPETKHCILSWLGNCLHANAGR TKIWANQ  
MPEIFFQMYASDAFFNLGAALLKLCQPFCKPRSSRLTFNPTYCALKELNDEERKIKNV  
HMRGLDKETCLIPAVQEPKFPQYNLVTENLALTEYTLYLGFHRLHDQMVKINQNLHRLQ  
VAWRDAQSSSPAADNLREQFERLMTIYLSKTAMTEPQMLQNCNLQVSMVLLVQLAI  
GNEGSQPIELTFPLPDGYSSLAYVPEFFADNLGDFLIFLRRFADDILETSADSLEHVLHF  
ITIFTGSIERMKNPHLRAKLAEVLEAVMPHLDQTPNPLVSSVFHRKRVFCNFQYAPQLAE  
ALIKVFDVIEFTGDPHQFEQKFNYRRPMYPILRYMWGTDITYRESIKDLADYASKNLEAMN  
PPLFLRFLNLLMND AIFLLDEAIQYLSKIKIQQIEKDRGEWDSLTPPEARREKEAGLQMFG  
QLARFHNIMSNETIGTLAFLTSEIKSLFVHPFLAERIISMLNYFLQHLVGPKMGALKVKD  
FSEFDFKPPQLVSDICTIYLNLDGEENFCATVPKDGSRYSPTLFAQTVRVLKKINKPGNM  
IMAFSNAERIKSLADLQQQEEETYADACDEFDLPIMSTLMCDPVVLPSSRVTVDRSTIA  
RHLLSDQTDPFNRSPLTMDQIRPNTELKEKIQRWLAERKQQKEQLE

>sp|P17480|UBF1\_HUMAN Nucleolar transcription factor 1 OS=Homo sapiens GN=UBTF PE=1 SV=1  
MNGEADCPTDLEMAAPKGQDRWSQEDMLTLECMKNNLPSNDSSKFKTTESHMDWEKVAF  
KDFSGDMCKLKWVEISNEVRKFRTLTELILDAQEHVKNPYKGKLLKHPDFPKKPLTPYF  
RFFMEKRAKYAKLHPEMSNDLDTKILSKKYKELPEKKMKYIQDFQREKQEFERNLARFR  
EDHPDLIQNAKKSIDIPEKPKTPQQLWYTHEKKVYLKVRPDATTKEVKDSL GKQWSQLSDK

KRLKWIHKALEQRKEYEIMRDYIQKHPELNISEEGITKSTLTKAERQLKDKFDGRPTKP  
PPNSYSLYCAELMANMKDVPSTERMVLCSSQWKLLSQKEKDAYHKKCDQKKKDYEVELLR  
FLESLPEEEQQRVLGEEKMLNINKKQATSPASKKPAQEGGKGGSEKPKRPVSAMFIFSEE  
KRRQLQEERPELSESELTRLLARMWNDLSEKKKAKYKAREAALKAQSERKPGGEREERGK  
LPESPKRAEEIWQQSVIGDYLARFKNDRVKALKAMEMTWNMEKKEKLMWIKKAAEDQKR  
YERELSEMRAAPATNSSKKMKFQGEPKKPPMNGYQKFSQELLSNGELNHLPLKERMVEI  
GSRWQRISQSKEHYKKLAEQQKQYKVHLDLWVKSLSPQDRAAYKEYISNKRKSMTKLR  
GPNPKSSRTTLQSKSESEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE  
GDENEDEDEDEDEDEDEDEDEDENESEGGSSSSSSSSSGDSSSDSDSN

>sp|075317|UBP12\_HUMAN Ubiquitin carboxyl-terminal hydrolase 12 OS=Homo sapiens GN=USP12  
PE=1 SV=2

MEILMTVSKFASICTMGANASALEKEIGPEQFPVNEHYFGLVNFNTCYCNSVLQALYFC  
RPFREKVLAYKSQPRKKESLLTCLADLFHSIATQKKKGVIPPKFITRLRKENELFDNY  
MQQDAHEFLNYLLNTIADILQEERKQEKQNGRLPNGNIDNENNNSTPDPTWHEIFQGT  
TNETRCLTCETISSKDEDFDLSDVEQNTSITHCLRGFSNTETLCSEYKYYCEECSKQ  
EAHKRMKVKKLPMILALHLKRFKYMDQLHRYTKLSYRVVFPLELRLFNTSGDATNPDRMY  
DLVAVVVHCGSGPNRGHYIAIVKSHDFWLLFDDIVEKIDAQAIEEFYGLTSDISKNS  
GYILFYQSRD

>sp|Q9UMW8|UBP18\_HUMAN Ubl carboxyl-terminal hydrolase 18 OS=Homo sapiens GN=USP18 PE=1  
SV=1

MSKAFGLLRQICQSILAESSQSPADLEEKKEEDSNMKREQPRERPRAWDYPHGLVGLHNI  
GQTCCNLNLIQVFMNVDFTRILKRITVPRGADEQRRSVFPQMLLLEKMQDSRQKAVRP  
LELAYCLQKCNVPLFVQHDAALYLKLWNL IKDQITDVHLVERLQALYTIRVKDSLICVD  
CAMESSRNSSMLTLPLSLFDVDSKPLKTLEDALHCFQPRELSSKSKCFCENGKKTRGK  
QVLKLTHLPQTLTIHLMRFSIRNSQTRKICHSLYFPQSLDFSQILPMKRESCDAEEQSGG  
QYELFAVIAHVGMAADSGHYCVYIRNAVDGKWFCFNDNCLVSWEDIQCTYGNPNYHWQE  
TAYLLVYMKMEC

>sp|094966|UBP19\_HUMAN Ubiquitin carboxyl-terminal hydrolase 19 OS=Homo sapiens GN=USP19  
PE=1 SV=2

MSGGASATGPRRGPPGLEDTTSKKKQKDRANQESKDGDPKGTGSRYVAQAGLEPLASGD  
PSASASHAAGITGSRHRTLFFPSSSGSASTPQEEQKEGACEDPHDLLATPTPELLLDW  
RQSAEEVIVKLVRGVGLQLEDVDAFTDTCVVRFAGGQWGGVFYAEIKSSCAKVQTR  
KGSLLHLTLPKKVPMLTWPSLLVEADEQLCIPPLNSQTCLLGSEENLAPLAGEKAVPPGN  
DPVSPAMVRSRNP GKDDCAKEEMAVAADAATLVDEPESMVNLA FVKND SYEKGPD SVVVH  
VYVKEICRDTSRVLFREQDFTLIFQTRDGNFLRLHPGCGPHTTFRWQVKLRNLEPEQCT  
FCFTASRIDICLRKRSQRWGGLEAPAA RVGGAKVAVPTGPTPLDSTPPGGAPHPLTGQE  
EARAVEKD KSKARSED TGLDSVATRTPMEHVTPK PETHLASPKPTCMVPPMPHSPVSGDS  
VEEEEEEEKKVCLPGFTGLVNLGNTCFMNSVIQSLN TRELRDFFHDSFEAEINYNPL  
GTGGR LAIGFAVLLRALWKGTHHAFQPSKLKAI VASKASQFTGYAQHDAQE FMAFLDGL  
HEDLNRIQNKPYTETVDS DGRPD EVVAEEAWQRHKMRNDSFIVDLFQGGYKSKLVCPVCA  
KVSITFD PFLYLPVPLPQKQKVL PVFYFAREPHSKPIKFLVSVSKENSTASEVLD SLSQS  
VHV KPENLR LAEVIK NRFHRVFLPSHSLDTVSPSDTLLCFELLSSELAKERVVVLEVQQR  
PQVPSVPI SKCAACQRKQSEDEKLKRC TRCYRVGYCNQLCQKTHWPDHGLCRPENIGY  
PFLVSPASRLTYARLAQLLEGYARYSVSVFQPPFQPGRMALESQSPGCTTLLSTGSLEA

GDSEDPITQPPELQLVTPMAEGDTGLPRVWAAPDRGVPVSTSGISSEMLASGPIEVGSLP  
AGERVSRPEAAVPGYQHPSEAMNAHTPQFFIYKIDSSNREQRLEDKGDTPLELGDDCSLA  
LVWRNNERLQEFVLVASKELECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEAWY  
CPQCKQHREASKQLLLWRLPNVLIVQLKRFSFRSFIWRDKINDLVEFPVRNLDLSKFCIG  
QKEEQLPsyDLYAVINHYGGMIGGHYTACARLPNDRSSQRSVDVGWRLFDDSTVTTVDESQ  
VVTRYAYVLFYRRRNSPVERPPRAGHSEHHPDLGPAAEAAASQASRIWQELEAEEEPVPPE  
GSGPLGPWGPQDWVGPLPRGPTTDEGCLRYFVLGTVAALVALVLNVFYPLVSQSRWR

>sp|Q9UK80|UBP21\_HUMAN Ubiquitin carboxyl-terminal hydrolase 21 OS=Homo sapiens GN=USP21  
PE=1 SV=1

MPQASEHRLGRTREPPVNIQPRVSGSKLPFAPRARSKERRNPASGPNMLRPLPPRGLPD  
ERLKKLELGRGRTSGPRPRGPLRADHGVPLPGSPPTVALPLPSRTNLARSKSVSSGDLR  
PMGIALGGHRTGELGAALSRLALRPEPPTLRRSTSLRRLGGFPGPPTLFSIRTEPPASH  
GSFHMISARSSEPFYSDDKMAHHTLLGSGHVGLRNLGNTCFLNAVLQCLSSTRPLRDFC  
LRRDFRQEVPGGGAQELTEAFADVIGALWHPDSCEAVNPTRFRAVFQKYVPSFSGYSQQ  
DAQEFLKLLMERLHLEINRRGRRAPPILANGPVPSPRRGGALLEEPELSDDDRANLMWK  
RYLEREDSKIVDLFGQLKSKLCQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSRLDCF  
NLFTKEEELESENAPVCDRCRQKTRSTKKLTVQRFPRIVLHLNRFSASRGSIKKSSVGV  
DFPLQRLSLGDFASDKAGSPVYQLYALCNHSGSVHYGHYALCRCQTGWHVYNDSRVSPV  
SENQVASSEGYVLFYQLMQEPPRCL

>sp|Q9HBJ7|UBP29\_HUMAN Ubiquitin carboxyl-terminal hydrolase 29 OS=Homo sapiens GN=USP29  
PE=2 SV=1

MISLKVCGFIQIWSQKTGMTKLKEALIVTVQRQKEIKLVVTFKSGKFIRIFQLSNNIRSV  
VLRHCKKRQSHLRLTLKNNVFLFDKLSYRDAKQLNMFLDIHQNKSSQPMKSDDDWSVF  
ESRNLKEIDKTSFYSCNKPSYQKMPLFMSKSPTHVKKGILENQGGKGQNTLSSDVQTN  
EDILKEDNPVPNNKYKTDLSKYIQSNRKNPSSLEDLEKDRDLKLGPSFNTNCNGNPNLDE  
TVLATQTLNAKNGLTSPLEPEHSQGDPRCNKAQVPLDSHSQQLQQGFPNLGNTCYMNAVL  
QSLFAIPSFADDLLTQGVPEYIPFEALIMTLTQLLALKDFCSTKIKRELLGNVKKVISA  
VAEIFSGNMQNDAAHEFLGQCLDQLKEDMEKLNATLNTGKECGDENSSPQMHVGSAAATKVF  
VCPVVANFEFELQLSLICKACGHAVLKVEPNNYLSINLHQETKPLPLSIQNSLDLFFKEE  
ELEYNCQMCKQKSCVARHTFSRLSRVLI IHLKRYSFNNAWLLVKNNEQVYIPKSLSLSSY  
CNESTKPPPLSSAPVGKCEVLEVSQEMISEINSPLTPSMKLTSESSDSLVLPEPDKN  
ADLQRFQRDCGDASQEQHQRDLENGSALESELVHFRDRAIGEKELPVADSLMDQGDISLP  
VMYEDGGKLISSPDTRLVEVHLQEVPHPELQKYEKTNTFVEFNFDSTESTNGFYDCKE  
NRIEFSQGMAEQLQQCIEESIIDEFLQQAPPPGVRKLDAQEHTETLNQSTELRLQKAD  
LNHLGALGSDNPGKNILDAENTRGEAKELTRNVKMGDPLQAYRLISVVSIGSSPNSGH  
YISDVYDFQKQAWFTYNDLCVSEISETKMQEARLHSGYIFFYMHNGIFEELLRKAENSRL  
PSTQAGVIPQGEYEGDSLRYPA

>sp|P62068|UBP46\_HUMAN Ubiquitin carboxyl-terminal hydrolase 46 OS=Homo sapiens GN=USP46  
PE=1 SV=1

MTVRNIASICNMGTNASALEKDIGPEQFPINEHYFGLVNFNTCYCNSVLQALYFCRPFR  
ENVLAYKAQQKKKENLLTCLADLFHSIATQKKKVGVIIPKKFISRLRKENDLFDNYMQQD  
AHEFLNYLLNTIADILQEEKKQEKQNGKLKNGNMNEPAENNKPELTWVHEIFQGTLTNET  
RCLNCETVSSKDEDFDLSDVDEQNTSITHCLRDFSNTETLCSEQKYCETCCSKQEAQK  
RMRVKKLPMILALHLKRFKYMEQLHRYTKLSYRVVFPLELRLFNTSSDAVNLDRLMYDLVA

VVVHCGSGPNRGHYITIVKSHGFWLLFDDDIVEKIDAQAIEEFYGLTSDISKNSESGYIL  
FYQSRE

>sp|Q96K76|UBP47\_HUMAN Ubiquitin carboxyl-terminal hydrolase 47 OS=Homo sapiens GN=USP47  
PE=1 SV=3

MVPGEENQLVPKEDVFWRCRQNI FDEMKKKFLQIENAAEEPRVLCIIQDTTNSKTVNERI  
TLNLPASTPVRKLFEDVANKVGYINGTFDLVWGNGINTADMAPLDHTSDKSLLDANFEPG  
KKNFLHLTDKDGEQPQILLEDSAGEDSVHDFRIGPLPREGSGGSTSDYVSQSYSSIL  
NKSETGYVGLVNQAMTCYLNSSLQTLFMTPEFRNALYKWEFESEEDPVTSIPYQLQRLF  
VLLQTSKKRAIETDVTFRSFGWDSSEAWQQHDVQELCRVMFDALEQKWKQTEQADLINEL  
YQGKLDYVRCLECGYEGWRIDTYLDIPLVIRPYGSSQAFASVEEALHAFIQPEILDGPN  
QYFCERCKKKCDARKGLRFLHFPYLLTLQLKRDFDYTTMHRIKLNDRMTFPEELDMSTF  
IDVEDEKSPQTESCTDGAENEGSCHSDQMSNDFSNDGVDGEGICLETNSGTEKISKSGL  
EKNSLIYELFSVMVHSGSAAGGHYACIKSFSDEQWYSFNDQHVSRTQEDIKKTHGGSS  
GSRGYSSAFASSTNAYMLIYRLKDPARNAKFLEVDEYPEHIKNLVQKERELEEQEKQR  
EIERNTCKIKLFLHPTKQVMENKLEVHKDKTLKEAVEMAYKMDLEEVIPLDCCRLVK  
YDEFHDYLERSEYGEEDTPMGLLLGGVKSTYMFDLLLETRKPDQVFQSYKPGEVMVKVHV  
VDLKAESVAAPITVRAYLNQTVTEFKQLISKAHILPAETMRIVLERCYNDLRLLSVSSKT  
LKAEGFFRSNKVFVESSETLDYQMAFADSHLWKLDRHANTIRLFLVLLPEQSPVSYSKRT  
AYQKAGDSDGNVDDDCERVKGPVGSLSKVEAILEESTEKLKSLSLQQQDGDNGDSSKST  
ETSDFENIESPLNERDSSASVDNRELEQHIQTSDPENFQSEERSDSVDVNNDRSTSSVDSD  
ILSSSHSDTLCNADNAQIPLANGLDSHSITSSRRTKANEGKKETWDTAEEDSGTDSEYD  
ESGKSRGEMQYMYFKAEPYAADEGSGEGHKWLMVHVDKRITLAAFKQHLEPFVGVLSHF  
KVFRVYASNQEFESVRLNETLSSFSDDNKITIRLGRALKKGEYRVKVYQLLVNEQEPCKF  
LLDAVFAKGMTVRQSKEELIPQLREQGLELSIDRFRLRKKTWKNPGTVFLDYHIYEEDI  
NISSNWEVFLEVLDGVEKMKMSQLAVLSRRWKPSMKLDPFQEVVLESSSVDELREKLS  
EISGIPLDDIEFAKGRGTFPCDISVLDIHQDLWDNPKVSTLNVWPLYICDDGAVIFYRDK  
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>sp|Q70EL3|UBP50\_HUMAN Inactive ubiquitin carboxyl-terminal hydrolase 50 OS=Homo sapiens  
GN=USP50 PE=2 SV=1

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LGNLYPAFTKKMQDAQEFLICVLNELHEALKKYHYSRRRSYKGSTQRCCRKWTITETS  
IITQLFEEQLNYSIVCLKCEKCTYKNEVFTVFSLPISKEYECSLRDCLQCFQDALTWN  
NEIHCSFCETKQETAVRASISKAPKIIIFHLKRFDIQGTTKRKLRTDIHYPLTNLDLTPY  
ICSIFRKYPKYNLCAVVNHFGDLDGGHYAFCKNSVTQA

>sp|Q70EK9|UBP51\_HUMAN Ubiquitin carboxyl-terminal hydrolase 51 OS=Homo sapiens GN=USP51  
PE=2 SV=1

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SAPPPPPARPPPPPPPPPPAPRPRAWRGSRRRSRPGSRPQTRRSCSGDLDGSGDPGGLG  
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THMNLHSLSCVFFGCFTEKHIHKHAETKQHHLAVDLYHGVYICFMCKDYVYDKDIEQI  
AKETKEKILRLLTSTSTDVSHQQFMTSGFEDKQSTCETKEQEPKLVKPKKKRRKKS SVYTV  
GLRGLINLGNTCFMNCIVQALTHIPLLKDFFLSDKHKCIMTSPSLCLVCEMSSLFHAMYS

GSRTPHIPYKLLHLIWIHAHLAGYRQQDAHEFLIAILDVLHRHSKDDSGGQEANNPNCC  
NCIIDQIFTGGLQSDVTCQACHSVSTTIDPCWDISLDLPGSCATFDSQNPERRADSTVSRD  
DHIPGIPSLTDCLQWFRPEHLGSSAKIKCNSCQSYQESTKQLTMKKLPVACFHLKRFE  
HVGKQRRKINTFISFPLELDMTPFLASTKESRMKEGQPPTDCVPNENKYSLFAVINHHGT  
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>sp|Q70EL1|UBP54\_HUMAN Inactive ubiquitin carboxyl-terminal hydrolase 54 OS=Homo sapiens  
GN=USP54 PE=1 SV=4

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MVHYISTTSLCNQAICMLERREKPSPSMFGELLQNASTMGDLRNCPSNCGERIRIRRVLM  
NAPQIITIGLVWSDHSDLAEDVIHSLGTCLKLGDLFFRVTDRAKQSELYLVGMICYYG  
KHYSTFFFQTKIRKWMYFDDAHVKEIGPKWKDVVTKCIKGHYQPLLLLYADPQGTPVSTQ  
DLPPQAEFQSYSRTCYDSEDSGREPSISSDTRTDSSTESYPYKSHHESVVSFSSDSQG  
TVIYNVENDSMSQSSRDTHGLTDECNQKHTSKKGS LIERKRSSGRVRRKGDEPQASGYH  
SEGETLKEKQAPRNASKPSSSTNRLRDFKETVSNMIHNRPSLASQTNVGSCHCRGGDQP  
DKKPPRTLPLHSRDWEIESTSSSEKSSSSSKYRPTWRPKRESLNIDISFSKDKRKHCYGT  
QLSPFSEDSAKEFIPDEPSKPPSYDIKFGGSPQYKRWGPARGSHLLEQHPRLIQRMES  
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MGGWTKSQPFSGEEISSKSELDELQEEVARRAQEQLRRKREKELEAAKGFNPHPSRFMD  
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VLLSQEAQLESGMDTEFGASSFFHSPASCHESHSSLSPESSAPQHSSPSRSALKLLTSVE  
VDNIEPSAFHRQGLPKAPGWTEKNSHHSWEPLDAPEGKLQGSRCDNSSCSKLPPQEGRGI  
AQEQLFQEKKDPANPSPVMPGIATSERGDEHSLGCSPSNSSAQPSLPLYRTCHPIMPVAS  
SFVLHCPDPVQKTNQCLQGQSLKTS LTKVDRGSEETYRPEFPSTKGLVRSLAEQFQRMQ  
GVSMRDSTGFKDRSLSGSLRKNSSPSDSKPPFSQGQEKGHWPWAKQSSLEGGDRPLSWE  
ESTEHSSALNSGLPNGETSSGGQPRLAEPDIYQEKLSQVRDVRSKDLGSSTDLGTS LPL  
DSWVNITRFCDSQLKHGAPRPGMKSSPHDSHTCVTYPERNHILLHPHWNQDTEQETSELE  
SLYQASLQASQAGCSGWGQD TAWHPLSQTGSADGMGRRLHSAHDPGLSKTSTAEMEHGL  
HEARTVRTSQATPCRGLSREGEDEQYSAENLRRI SRSLSGTVVSEREEAPVSSH SFDSS  
NVRKPLETGHRCS SSSSLPVIHDPVSFLLGPQLYLPQPQLSPDVLMP TMAGEPNRLPGT  
SRSVQQFLAMCDRGETSQGAKYTGRTLNYQSLPHRSRTD NSWAPWSETNQHIGTRFL TTP  
GCNPQLTYTATLPERSKGLQVPHTQSWSDLFHSPSHPIVHPVYPPSSSLHVPLRSAWNS  
DPVPGSRTPGPRRVDMPPDDDW RQSSYASHSGHRRTVGEGLFVLSDAPRREQIRARVLQ  
HSQW

>sp|Q93009|UBP7\_HUMAN Ubiquitin carboxyl-terminal hydrolase 7 OS=Homo sapiens GN=USP7  
PE=1 SV=2

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CNAESDSTWSCHAQAVLKIINYRDDEKSF SRRISHLFFHKENDWGFSNFMWSEVTDPE  
KGFIDDDKVTFEVFVQADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQTLFFT NQLRK  
AVYMMPTEGDDSSKSVPLALQRVFYELQHS DKPVGTKKLT KSFGWETLDSFMQHDVQELC  
RVLLDNVENKMKGTCVEGTIPK LFRGKMVSYIQCKEVDYRS DRREDYYDIQLSIK GK KNI



FESFVDYVAVEQLDGDNKYDAGEHGLQEAKEGVKFLTLPPVLHLQLMRMYDPQTDQNIK  
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DDDVSRCRCKEEAIEHNYGGHDDLSVRHCTNAYMLVYIRESKLSEVLQAVTDHDIPQQ  
VERLQEEKRIEAQKRKERQEAHLYMQVQIVAEDQFCGHQGNMYDEEKVKYTVFKVLKNS  
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FLETVDPELAASGATLPKFDKDHVMLFLKMYDPKTRSLNYCGHIYTPISCKIRDLLPVM  
CDRAGFIQDTSILYEEVKPNLTERIQDYDVSLDKALDEMDGDIIVFQKDDPENDNSEL  
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>sp|Q9UHD9|UBQL2\_HUMAN Ubiquilin-2 OS=Homo sapiens GN=UBQLN2 PE=1 SV=2

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GVGVLGTAIGVPGVPTPIGPIGPIVPTPIGPIGPIGPTGAAPPGSTGSGGPTGPTVSS  
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>sp|Q6ZT12|UBR3\_HUMAN E3 ubiquitin-protein ligase UBR3 OS=Homo sapiens GN=UBR3 PE=2 SV=2

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SGFCKRHQIKSSSNIPCVKDLLMSEFVLPRFIFCLIQYLREGYNPAADGPSEKDLNK  
VLQLELPQISFLEDLTKMGAMRSVLTQVLTNQQNYKDLTSGLGENACVKKSHEKYLI  
KSSGLTYPEDKLVYGVQEPSAGTSSLAVQGFIGATGTLGQVDSSDEDDQDGSQGLGKRKR  
VKLSSGTKDQSIMDVLKHSFLEELLFWTIKYEFPQKMVTFLLNMLPDQEYKVAFTKTFV  
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CLIKSELQDEENSLHVVNCGEALLKNNTYWPLVSDFINILSHQSVAKRFLEDHGLLVTW  
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NVVRYCLEALQDWFDAINFVDEPAPNQVTFHLPLHRYAMFLSKAVKCQELDLDSVLPDQ  
EMLMKLMIHPLQIQASLAEIHSNMWVRNGLQIKGQAMTYVQSHFCNSMIDPDIYLLQVCA  
SRLDPDYFISSVFERFKVVDLLTMAHQHNTVLDAAEHRSMLLEGALTFVLILLSLRLHLG  
MSDDEILRAEMVAQLCMNDRTHSSLLDLIPENPNPKSGIIPGSYSFESVLSAVADFKAPV  
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NSAEEESDEEASVGGERCHDSWFFPGSNLVSNMRFHINYVRVRVPETAPEVKRDSASTS  
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AILEIKESILSLLIKLHHKLSGKQNSYPPWLDDIEILIQPEIPKYSHGDGITAVERILL  
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PGSPDNDFLFMYSVARTNLELELIHRGGNLCSSGASTAGKRSCNLQFHVLAHMLYSI  
DSEYNPWRKLTQLEEMNPQLGYEEQQPEVPILYHDVTSLLLIQILMMPQPLRKDHFTCIV  
KVLFTLLYTQALAALSVKCSSEDRSAWKHAGALKKSTCDAEKSYEVLLSFVISELFGKL  
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LASCLGLLPTFYQTEHPFISASCLDWPVPAFDIITQWCFEIKSFTERHAEQGKALLIQES  
KWKLPHLLQLPENYNTIFQYYHRKTCVCTKVPKDPVCLVCGTFVCLKGLCKQKQSYCE  
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>sp|Q5T4S7|UBR4\_HUMAN E3 ubiquitin-protein ligase UBR4 OS=Homo sapiens GN=UBR4 PE=1 SV=1

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ACAVSQKHLILLIKGLCTGCSRLDRTEIITFTAMMSAKLPQTVKTLSDVEDQKELASPV  
SPELRQKEVQMNFLNQLTSVFNPRTVASQPISTQTLVEGENDEQSSTDQASAIKTKNVFI  
AQNVASLQELGGSEKLLRVCLNLPYFLRYINRFQDAVLANSFFIMPATVADATVRNGFH  
SLVIDVTMALDTLSLPVLEPLNPSRLQDVTVLSLSCLYAGVSVATCMAILHVGSAQQVRT  
GSTSSKEDDYESDAATIVQKCLEIYDMIGQAISSSRAGGEHYQNFQLLGAWCLLSLFL  
ILNLSPTALADKGEKDPLAALRVRDILSRTEKGVGSPKLGPGKGHGQFGVLSVILANHA  
IKLLTSLFQDLQVEALHKGWETDGPPAALS IMAQSTSIQRIQRLIDSVPLMNLLLTLST  
SYRKACVLQRQRKGSMSDASASTDSNTYYEDDFSSTEEDSSQDDSEPILGQWFEETIS  
PSKEKAAPPPPPPPPLESSPRVKSPSKQAPGEKGNILASRKDPELFLGLASNILNFITS  
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VKYDELYAALTALLAAGSQLDTVRRKENKNVTALEACALQYYFLILWRILGILPPSKTYI  
NQLSMNSPEMSECDILHTRLWSSRLRISSYVNIKDHLIKQGMKA EHASSLLELASTTKC  
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QTEKKLKEYSQKAVEILRTQNHILTNHPNSNIYNTLSGLVEFDGYYLES DPCLVCNNPEV  
PCFYIKLSSSIKVDTRYTTTQQVVKLIGSHTISKVTVKIGDLKRTKMVRTINLYNNRVTQ  
AIVELKNKPARWHKAKKVQLTPGQTEVKIDPLPIVASNLMEFADFYENYQASTETLQC  
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CAVDPIENEEDRKKAVSNINTLLDKADRVYHQLMGRHPQLENLLCKVNEAAPEKPQDDSG  
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KSSRTSVQPTFTASQYRALSVLGCGHTSSTKCYGCASAVTEHCITLLRALATNPALRHIL  
VSQGLIRELFDYNLRRGAAAMREEVRQLMCLLTRDNPEATQQMNDLII GKVSTALKGHW  
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QKLIKPPAPTSSKNKDVPEALTTVKPYCNEIHAQAQLWLKRPKASYDAWKCLPIRGI  
DGNGKAPSKSELRHLYLTEKYVWRWKQFLSRRGKRTSPLDLKLGHNNWLRQVLFPTATQA  
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AARGVLPYVGNLITKEIARLLALEEATLSTDLLQGYALKSLTGLLSSFVEVESIKRHFKS  
RLVGTVLNGYLCRLKLVVQRTKLIDETQDMLLEMDMTTGTESETKAFMAVCIETAKRY  
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>sp|Q9NWZ5|UCKL1\_HUMAN Uridine-cytidine kinase-like 1 OS=Homo sapiens GN=UCKL1 PE=1 SV=2  
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DISERGRDIEGVIKQYNKFVKPSFDQYIQPTMRLADIVVPRGSGNTVAIDLIVQHVSQ  
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LLSLLMAEMGVHSAVAYAFPRVRIITTAVDKRVNDLFRIIPGIGNFGDRYFGTDAVPDGSD  
EEEVAYTG

>sp|P19224|UD16\_HUMAN UDP-glucuronosyltransferase 1-6 OS=Homo sapiens GN=UGT1A6 PE=1 SV=2  
MACLLRSFQRISAGVFFLALWGMVVGDKLLVVPQDGSWLSMKDIVEVLSDRGHEIVVVV  
PEVNLLKESKYYTRKIYPVPYDQEELKNRYQSFGNNHFAERSFLTAPQTEYRNNMIVIG  
LYFINCQSLLQDRDTLNFKEKSFDAFTDPALPCGVILAEYLGLPSVYLFRGFPCSLEH  
TFSRSPDPVSYIPRCYTKFSDHMTFSQRVANFLVNLLEPYLFYCLFSKYEELASAVLKRD  
VDIITLYQKVSVWLLRYDFVLEYPRPVMPNMVFIGGINCKKRKDLSEFEAYINASGEHG  
IVVFSLGSVMSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVKWLPQNDLL  
GHPMTRAFITHAGSHGVYESICNGVPMVMMPPLFGDQMDNAKRMETKGAGVTNLVLEMTSE  
DLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDL  
TWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|O60656|UD19\_HUMAN UDP-glucuronosyltransferase 1-9 OS=Homo sapiens GN=UGT1A9 PE=1 SV=1  
MACTGWTSPPLCVCLLTTCGFAEAGKLLVPMMDGSHWFTMRVVEKLILRGHEVVVMP  
EVSWQLGRSLNCTVKTYSTSYTLEDLDREFKAFABAQWKAQVRSIYSLMGSYNDIFDLF  
FSNCRSLFKDKKLEYLKESSFDAVFLDPFDNCGLIVAKYFSLPSVVFARGILCHYLEEG  
AQCPAPLSYVPRILLGFSDAMTFKERVNRHIMHLEHLLCHRFKNALEIASEILQTPVT  
EYDLYSHTSIWLLRTDFVLDYKPVMPNMIFIGGINCHQGKPLPMEFEAYINASGEHGIV  
VFSLGSVMSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVKWLPQNDLLGH  
PMTRAFITHAGSHGVYESICNGVPMVMMPPLFGDQMDNAKRMETKGAGVTNLVLEMTSEDL  
ENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTW  
YQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|Q3SY77|UD3A2\_HUMAN UDP-glucuronosyltransferase 3A2 OS=Homo sapiens GN=UGT3A2 PE=2  
SV=1  
MAGQRVLLL VGFLPGVLLSEAAKILTISTVGGSHYLLMDRVSQILQDHGHNVTMLNHR  
GPFMPDFKKEEKSYQVISWLAPEDHQREFKKSFDFFLEETLGGRGKFENLLNVLEYLALQ  
CSHFLNRKDIMDSLKNENFDMVIVETFDYCPFLIAEKLGPVFVAILSTSFGSLEFGLPIP  
LSYVPVFRSLTDHMDFWGRVKNFLMFFSFCRRQQHMQSTFDNTIKEHFTEGSRPVLSHL  
LLKAELWFINSDFAFDFARPLLNTVYVGGLEKPIKVPVQDLENFIAKFGDSGFVLVTL  
GSMVNTCQNP EIFKEMNNAFAHLPQGVIWKCQCSHWPKDVHLAANVKIWDWLPQSDLLAH  
PSIRLFVTHGGQNSIMEAIQHGVPMVGIPFGDQPENMVRVEAKKFGVSIQLKKLKAETL  
ALKMKQIMEDKRYKSAAVAASVILRSHPLSPTQRLVGWIDHVLQTGGATHLKPYVFQQPW  
HEQYLLDVVFLLGLTLGTLWLCCGKLLGMAVWWLRGARKVKET

>sp|Q9H9P5|UNKL\_HUMAN Putative E3 ubiquitin-protein ligase UNKL OS=Homo sapiens GN=UNKL  
PE=1 SV=3  
MPSVSKAAAAALSGSPPTKPTHYRYLKEFRTEQCPLFSQHKAQHRPFTCFHWHFLNQ  
RRRRPLRRRDGTFNYSPPDVYCSKYNEATGVC PDGDECPYLHRTTG DTERKYHLRYKTGT  
CIHETDARGHCVKNGLHCAFAHGPLDLRPPVCDVRELQAQEALQNGQLGGGEGVPDLQPG  
VLASQAMIEKILSEDPRWQDANFVLGSYKTEQCPKPPRLCRQGYACPHYHNSRDRRRNPR  
RFQYRSTPCPSVKHGDWEGPSRCDGGDGCQYCHSRTEQQFHPESTKCNDRMTGYCPRG  
PFCFAHVEKSLGMVNEWGCHDLHTSPSSTGSGQPGNAKRRDSPAEGGPRGSEQDSKQN  
HLAVFAAVHPPAPSVSSSVASSLASSAGSGSSPTALPAPPARALPLGPASSTVEAVLGS  
ALDLHLSNVNIASLEKDLEEQDGHDLGAAGPRSLAGSAPVAIPGSLPRAPSLHSPSSAST

SPLGSLSQLPGVPGSSAMTPPQQPPPLRSEPGTLGSAASSYSPLGLNGVPGSIWDFVSG  
SFSPSPSPILSAGPPSSSSASPNGAELARVRRQLDEAKRKIRQWEESWQQVKQVCDAWQR  
EAQEAKERARVADSDRQLALQKKEEVEAQVIFQLRAKQCVACRERAHGAVLRPCQHHILC  
EPCAATAPECPYCKGQPLQW

>sp|075841|UPK1B\_HUMAN Uroplakin-1b OS=Homo sapiens GN=UPK1B PE=2 SV=5  
MAKDNSTVRFCQGLLIFGNVIIGCCGIALTAECIFFVSDQHSLYPLLEATDNDIDIYGAAW  
IGIFVGICLFLSVLGIVGIMKSSRKILLAYFILMFIVYAFEVASCITAATQQDFFTPNL  
FLKQMLERYQNNSPNNDQWKNNGVTKTWDRMLQDNCCGVNGPSDWQKYTSAFRTENN  
DADYPWPRQCVMNLEKEPLNLEACKLGVPGFYHNQGCYELISGPMNRHAWGVAVWGFAGAI  
LCWTFWVLLGTMFYWSRIEY

>sp|000526|UPK2\_HUMAN Uroplakin-2 OS=Homo sapiens GN=UPK2 PE=1 SV=2  
MAPLLPIRTLPLILILLALLSPGAADFNISLSGLLSPALTESLLVALPPCHLTGGNATL  
MVRRANDSKVVTSSFVPPCRGRRELVSVDGAGFTVTRLSAYQVTNLVPGTKFYISYL  
VKKGTATESSREIPMSTLPRRNMESIGLMARTGGMVVITVLLSVAMFLLVLGFIIALAL  
GSRK

>sp|Q9BT76|UPK3B\_HUMAN Uroplakin-3b OS=Homo sapiens GN=UPK3B PE=1 SV=2  
MGLPWGQPHLGLQMLLLALNCLRPSLSLGEWGSWMDASSQTQGAGGPAGVIGPWAPAPLR  
LGEAAPGTPTPVSAHLLSPVATELVPYTPQITAWDLEGKVTATTSLEQPRCVFDGLAS  
ASDTVWLVAFSNASRGFQNPETLADIPASPQLLTDGHYMTLPLSPDQLPCGDPMAGSGG  
APVLRVGHDHGCHQQPFCNAPLPGPGPYREDPRIHRHLARAAKWQHDRHYLHPLFSGRPP  
TLGLLSLYHALLQPVVAGGGPGAAADRLHGGALHDPHPHTQGRHTAGGLQAWPGPPP  
QPQPLAWPLCMGLGEMGRWE

>sp|Q16831|UPP1\_HUMAN Uridine phosphorylase 1 OS=Homo sapiens GN=UPP1 PE=1 SV=1  
MAATGANAIEKAESHNDPCVRLNPNIAKMKEDILYHFNLTSRHNFALFGDVKFVCVGG  
SPSRMKAFIRCVGAELGLDCPGRDYPNICAGTDYAMYKVGVPVLSVSHGMGIPSIIMLH  
ELIKLLYYARCSNVTIIRIGTSGGIGLEPGTVVITEQAVDTCFKAEFEQIVLGKRVIRKT  
DLNKKLVQELLLCSAELSEFTTVVGNTMCTLDFYEGQGRLDGALCSYTEKDKQAYLEAAY  
AAGVRNIEMESSVFAAMCSACGLQAAVVCVTLNLRLEGDQISSPRNVLSEYQRPQRLVS  
YFIKKKLSKA

>sp|A6NGE7|URAD\_HUMAN Putative 2-oxo-4-hydroxy-4-carboxy-5-ureidoimidazoline  
decarboxylase OS=Homo sapiens GN=URAD PE=5 SV=2  
MDIEKVNSMDLGEFVDVFGNATERCPLIAAAVWSQRPFSLEDLEKHFFAFIDALAQSGQ  
EGILRCHPDLAGSELQRGTLTAESQREQSGAGLRSLGADERLRLAELNAQYRARFGFPFV  
LAARFSDRTAVPRELARLLCPSAQELRTALGEVKKIGSLRLADLLRADPAKL

>sp|Q5VTQ0|TTC39B\_HUMAN Tetratricopeptide repeat protein 39B OS=Homo sapiens GN=TTC39B  
PE=1 SV=4  
MDAVLACRLRGRGNVAALRPRPRPGGSAGSPFALLCAGLSPEPRAGVGSEFPWFLGG  
SSQRRNMALLGSRAELEADEDVFEDALETISISSHSDMATSSLHFASCDTQQAPRQRGAS  
TVSSSSSTKVDLKSGLLECAVALNLFSLNKFTDALELLRPWAKESMYHALGYSTIVVLQA  
VLTFEQQDIQNGISAMKDALQTCQYRKKYTVVESFSSLLSRGSLEQLSEEEMHAEICYA  
ECLLQKAALTFVQDENMINFIKGLKIRTSYQIYKECLSIHEIQKNKLQQEFFYEFEGG  
VKLGSGAFNMLSLPARIIRLLEFIGFSGNRELGLLQLREGASGRSMRSALCCLTILAF  
HTYISLILGTGEVNVAERLLAPFLQQFPNGSLVLFYHARIELLKGNLEEAQEVFQKCI  
SVQEEWKQFHHLCYWELMWINVFQQNWMQAYYYSDLLCKESKWSKATYVFLKAAILSMLP

EEDVVATNENVVTLFRQVDSLKQRIAGKSIPTEKFAVRKARRYSASLPAPVKLILPALEM  
MYVWNGFSIVSKRKDLSENLLVTVEKAEAAALQSQNFNSFSVDDECLVKLLKGCCLKNLQR  
PLQAELCYNHVVESEKLLKYDHVLPFTLFELASLYKSQGEIDKAIKFLETARNNYKDYS  
LESRLHFRIQAALHLWRKPSSD

>sp|Q8NBP0|TTC13\_HUMAN Tetratricopeptide repeat protein 13 OS=Homo sapiens GN=TTC13 PE=2  
SV=3

MAPAGCCCCCFWGGAVAAAGAARRVLLLLLGVLSAGLRPGALATEHYSPLSLLKQELQ  
HRQQQEAPAGGGGCSPPQSGDWGDQYSAECGESSFLNFHDSCEPKGSSPCDSLLSLNTEK  
ILSQAKSIAEQKRFPFATDNDSTNEELAIAVVLIGSGLYDEAIRHFSTMLQEEPDLVSAI  
YGRGIAYGKKGLHDIKNAELALFELSRVITLPEPDRPEVFEQRAEILSPLGRINEAVNDLT  
KAIQLQPSARLYRHRGTLYFISEDYATAHEDFQQSLELNKNQPIAMLYKGLTFFHRGLLK  
EAIESFKEALKQKQVDFIDAYKSLGQAYRELGNFEAATESFQKALLNQNHVQTLQLRGMM  
LYHHGSLQEALKNFKRCLQLEPYNEVCQYMKGLSHVAMGQFYEGIKAQTKVMLNDPLPGQ  
KASPEYLKVKYLREYSRYLHAHLDTPLTEYNIDVDLPGSFKDHWAKNLPFLIEDYEEQPG  
LQPHIKDVLHQNFESYKPEVQELICVADRLGSLMQYETPGFLPNKRIHRAMGLAAEVMQ  
AVQRTWTNSKVRMNGKTRLMQWRDMFDIAVKWRRADPDQPVWLWDQMPARSLSRGFNNH  
INLIRGQVINMRYLEYFEKILHFIKDRILVYHGANNPKGLEVREALEKVHKVEDLLPIM  
KQFNTKTKDGFTVNTKVPKSLKQKQKEYDGFITITITGDKVGNILFSVETQTTEERTQLYHA  
EIDALYKDLTAKGKVLILSSEFGADAVCNLILSLVYYFYNLMPLSRGSSVIAYSVIVGA  
LMASGKEVAGKIPKGLVDFEAMTAPGSEAFSKVAKSWMNLKSISSPYKTLPSVSETFPT  
LRSMIEVLNTDSSPRCLKKL

>sp|Q96N46|TTC14\_HUMAN Tetratricopeptide repeat protein 14 OS=Homo sapiens GN=TTC14 PE=1  
SV=1

MDRDLLRQSLNCHGSSLLSLLRSEQQDNPHFRSLLGSAAEPARGPPPQHPLQGRKEKRVD  
NIEIQKFISKADLLFALSWSADPATSEINEDSEDHYAIMPPLEQFMEIPSMDRRELFF  
RDIERGDIVIGRISSIREFGFMVLICLGSGIMRDIAHLEITALCPLRDVPSHNSHGDPL  
SYYQTGDIIRAGIKDIDRYHEKLAVSLYSSSLPPHLGKLGVISSEELPLYRRSVELN  
SNSLESYENVMQSSLGFVNPVGFVFLLEKLGIDESNPPSLMRGLQSKNFSEDDFASALRK  
KQSASWALKCVKIGVDYFKVGRHVDAMNEYNKALEIDKQNVREALVARGALYATKGSNLKA  
IEDFELALENCPTHNRNARKYLCQTLVERGGQLEEEKFLNAESYYKKALALDETFKDAED  
ALQKLHKYMQKSLELREKQAEKEEKQKTKKIETSAEKLRLKLLKEEKRLKKRRKSTSSSS  
VSSADESVSSSSSSSGHKKRHKHKNRSESSRRRHSSRASNQIDQNRKDECYPVP  
ANTSASFNLHKQVEKLLGKQDRLQYEKTIKEKDRCPLSSSSLEIPDDFGGRSEDPRDF  
YNSYKTQAGSSKTEKPYKSERHFSSRRNSSDSFCRNSDKIYGYRRFEKDIEGRKEHYRR  
WEPGSVRHSTSPASSEYSWKSVEKYKKAHSGSRDFSRHEQRYRLNTNQGEYEREDNYGE  
DIKTEVPEEDALSSKEHSESSVKKNLPQNLLNIFNQIAEFEKEKGNKSKN

>sp|Q96AE7|TTC17\_HUMAN Tetratricopeptide repeat protein 17 OS=Homo sapiens GN=TTC17 PE=1  
SV=1

MAAVGVRGRYELPPCSGPGWLLSLSALLSVAARGAFATTHWVVTEDGKIQQQVDSMNL  
KHPHDLVILMRQEATVNYLKELEKQLVAQKIIEENEDRDTGLEQRHNKEDPDCIKAKVP  
LGDLDLYDGTYTITLESKDIPEDYIDTESPVPPDPEQPDCTKILELPYSIHAFQHILRGVQ  
ERVNLSAPLLPKEDPIFTYLSKRLGRSIDDIGHLIHEGLQKNTSSWVLYNMAFVWRIKN  
EPYQVVECAMLHFSRRHNKDIALVNLANVLHRAHFSADAADVVAALDDSDFFTSYYT  
LGNIYAMLGEYNHSLCYDHALQARPGFEQAIKRKHAVLCQQKLEQKLEAQHRSRLQRTLN

ELKEYQKQHDHYLRQQEILEKHKLIQEEQILRNI IHETQMAKEAQLGNHQICRLVNQQHS  
LHCQWDQPVRYHRGDI FENV DYVQFGEDSSTSSMMSVNFVDVQSNQSDINDSVKSSPVAHS  
ILWIWGRSDAYRDKQHILWPKRADCTESYPRVPVGGELPTYFLPPENKGLRIHELSSDD  
YSTEEEAQTPDCSITDFRKSHTLSYL VKELEVRMDLKAKMPDDHARKILLSRINNYTIPE  
EEIGSFLFHAINKPNAPIWLILNEAGLYWRAVGNSTFAIACLQRALNLAPLQYQDVPLVN  
LANLLIHYGLHLDATKLLLQALAINSSSEPLTFLSLGNAYLALKNISGALEAFRQALKLTT  
KCPECENSLKLI RCMQFYFPFLYNTSSVCSGTVVEESNGSDEMENSDETKMSEEILALVD  
EFQQA WPLEGFGGALEMKGRRDLQGI RVLKKGPDGVARSSCYGDCRSEDDEATEWITF  
QVKRVKKPKGDHKKTPGKKVETGGIENGHRYQANLEITGPKVASPGPQGGKKRDYQRLGWP  
SPDECLKLRWVELTAIVSTWLAVSSKNIDITEHIDFATPIQQPAMEPLCNGNLPTSMHTL  
DHLHGVSNRASLHYTGESQLTEVLQNLGKDQYPQQSLEQIGTRIAKVLEKNQTSWWLSSM  
AALYWRVKGQGGKKAIDCLRQALHYAPHQMKDVPLISLANILHNAKLWNDIVIVATMAVEI  
APHFAVNHFTLGNVYVAMEEFKALVWYESTLKLQPEFVPAKNRIQTIQCHMLKKGRRS  
P

>sp|Q99614|TTC1\_HUMAN Tetratricopeptide repeat protein 1 OS=Homo sapiens GN=TTC1 PE=1  
SV=1

MGEKSENCVPEDLLNGLKVTD TQEAECAGPPVPDPKNQHSQSKLLRDDEAHLQEDQGEE  
ECFHDCSASFEEEPGADKVENKSNEDVNSELDEEYLIELEKNMSDEEKQKRREESTRLK  
EEGNEQFKKGDYIEAESSYSRALEMCPSCFQKERSILFSNRAAARMKQDKKEMAINDCSK  
AIQLNPSYIRAILRRAELYEKTDKLDEALEDYKSILEKDP SIHQAREACMRLPKQIEERN  
ERLKEEMLGKLKDLGNLVL RPFGLSTENFIKQDSSTG SYSINFVQNPNNR

>sp|Q6P3X3|TTC27\_HUMAN Tetratricopeptide repeat protein 27 OS=Homo sapiens GN=TTC27 PE=1  
SV=1

MWTPELAILRGFPTAERQQWKQEGVVGSESGSFLQLLLEGNYEAI FLNSMTQNI FNSTT  
TAEKIDSYLEKQVVTFLDYSTD LDTTERQQLIFLLGVSSLQLFVQSNWTGPPVDLHPQD  
FLSSVLFFQQFSEVKGLDAFVLSLLTLDGESIYSLTSKPILLLLARIILVNVRHKLTAIQS  
LPWWTLRCVNIHQHLL EERSPLLFTLAENCIDQVMKLQNL FVDDSGRYLAIQFHLECAYV  
FLYYYEYRKAKDQLDIAKDISQLQIDL TGALGKRTRFQENYVAQLILDVRREGDVLSNCE  
FTPAPTQEH LTKNELNDITILNDIKLADCEQFQMPDLCAEEIAIILGICTNFQKNPV  
HTLTEVELLAFTSCLLSQPKFWAIQTSALILRTKLEKGSTRRVERAMRQTQALADQFEDK  
TTSVLERL KIFYCCQVPPHWAIQRQLASLLFELGCTSSALQIFEKLEMWEDVVICYERAG  
QHGAEEILRQELEKKETPSLYCLLDVLDHSCYDKAWELSRYRSARAQRSKALLHLRN  
KEFQECVECFERSVKINPMQLGVWFSLGCAYLALEDYQGSAKAFQRCVTLEPDNAEAWN  
LSTSYIRLKKVKAFRTLQEALCNYEHWQIWENYILTSTDVGEFSEAIKAYHRLDLRD  
KYKDQVQLKILVRAVIDGMTDRSGDVATGLKGKLQELFGRVTSRV TNDGEIWRLYAHVYG  
NGQSEKPDENEKAFQCLSKAYKCDTQSNCEKDITSFKEVVQRALGLAHVAIKSKNKSS  
SQEAVQMLSSVRLNLRGLLSKAKQLFTDVATGEMSRELADDITAMDTLVTELQDLSNQFR  
NQY

>sp|075896|TUSC2\_HUMAN Tumor suppressor candidate 2 OS=Homo sapiens GN=TUSC2 PE=1 SV=3  
MGASGSKARGLWPFASAAGGGGSEAAGAEQALVRPRGRAVPPFVFTRRGSMFYDEDGDLA  
HEFYEETIVTKNGQKRAKLRRVHKNLIPQGIVKLDHPRIHVDFPVILYEV

>sp|Q13454|TUSC3\_HUMAN Tumor suppressor candidate 3 OS=Homo sapiens GN=TUSC3 PE=1 SV=1  
MGARGAPSRRRQAGRRLRYLPTGSFPFLLLLLLLLCIQLGGGQKKKENLLAEKVEQLMEWS  
SRRSIFRMNGDKFRKFIKAPPRNYSMIVMFTALQPQRQCSVCRQANEYYQILANSWRYSS



AFCNKLFFSMVDYDEGTDVFQQNLNMNSAPTFMHFPPKGRPKRADTFDLQRIGFAAEQLAK  
WIADRTDVHIRVFRPPNYSGTIALALLVSLVGGLLYLRRNNLEFIYNKTGWAMVSLCIVF  
AMTSGQMWNHIRGPPYAHKNPHNGQVSYIHGSSQAQFVAESHIILVLNAAITMGMVLLNE  
AATSKGDVGKRRIICLVGLGLVFFFSFLLSIFRSKYHGYPSDLDFE

>sp|Q5VYS8|TUT7\_HUMAN Terminal uridylyltransferase 7 OS=Homo sapiens GN=ZCCHC6 PE=1 SV=1

MGDTAKPYFVKRTKDRGTMDDDDFRRGHPQQDYLIIDDHAKGHGSKMEKGLQKKKITPGN  
YGNTPRKGPCAVSSNPYAFKNPIYSQPAWMNDSHKDQSKRWLSDEHTGNSDNWREFKPGP  
RIPVINRQRKDSFQENEDGYRWQDTRGCRTVRRLFHKDLTSLETTSEMEAGSPENKKQRS  
RPRKPRKTRNEENEQDGDLEGPVIDESVLSTKELLGLQQAERLKRDCIDRLKRRPRNYP  
TAKYTCRLCDVLIIESIAFAHKHIKEKRHKKNIKEKQEEELLTTLPPTPSQINAVGIAID  
KVVQEFGLHNENLEQRLEIKRIMENVFQHKLPDCSLRLYGSSCSRLGFKNSDVNIDIQFP  
AIMSQPDVLLLVQECLKNSDSFIDVDADFHARVPVVVCREKQSGLLCKVSAGNENACLTT  
KHLTALGKLEPKLVPLVIAFRYWAKLCSIDRPEEGGLPPYVFALMAIFFLQQRKEPLLPV  
YLGSWIEGFSLSKLGNFNLQDIEKDVIWEHTDSAAGDTGITKEEAPRETPIKRGQVSLI  
LDVKHQPSVPVQGLWVELLRFYALEFNADLVISIRVKELVSRELKDWPKKRIAIEDPYS  
VKRNVARTLNSQPVFYILHCLRTTYKYFALPHKITKSSLLKPLNAITCISEHSKEVINH  
HPDVQTKDDKLKNSVLAQGPGATSSAANTCKVQPLTLKETAESFGSPPEEMGNEHISVH  
PENSDCIQADVNSDDYKGDKVYHPETGRKNEKEKVGRKGKHLITVDQKRGEHVVCSTRN  
NESESTLDLEGFQNPTAKECEGLATLDNKADLDGESTEGTEELEDNLHFTHSVGGQTSE  
MIPSEEEEEDEEEEEEEEEPRLTINQREDEDGMANEDELNNTYTSGDEDELSEEDDELG  
EAAKYEDVKECGKHVERALLVELNKISLKEENVCEEKNSPVDQSDFFYEFKSLIFTKGKS  
PTTVCSLCKREGHLKKDCPEDFKRIQLEPLPPLTPKFLNILDQVCIQCYKDFSPTIIEDQ  
AREHIRQNLESFIRQDFPGTKLSLFGSSKNGFGFKQSDLDVCMTINGLETAEGLD CVRTI  
EELARVLRKHSGLRNILPITTAKVPIVKFFHLRSGLEVDISLYNTLALHNTRLLSAYSAI  
DPRVKYLCYTMKVFTKMCIDIGDASRGLSSYAYTLMVLYFLQQRNPPVIPVLQEIKYGEK  
KPEIFVDGWNIFYFDQIDELPTYWSECGKNTESVGQLWGLLRFYTEEFDFKEHVISIRR  
KSLLTTFKKQWTSKYIVIEDPFDLNHNLAGLSRKMTNFMKAFINGRRVFGIPVKGFPG  
DYPKMEYFFDPDLTEGELAPNDRCCRICGKIGHFMKDCPMRRKVRRRRDQEDALNQRV  
PENKEKRSKEDKEIHNKYTEREVSTKEDKPIQCTPQAKPMRAAADLGREKILRPPVEKW  
KRQDDKDLREKRCFCGREGHIKKECPQFKGSSGSLSSKYMTQGKASAKRTQES

>sp|Q9UPX0|TUTLB\_HUMAN Protein turtle homolog B OS=Homo sapiens GN=IGSF9B PE=2 SV=2

MIWYVATFIASVIGTRGLAAEGAHGLREEPEFVTARAGESVVLRCDV IHPVTGQPPPYV  
EWFKFGVPIPIFIKFGYPPPHVDPEYAGRASLHDKASLRLEQVRSEDQGWYECKVLM LDQ  
QYDTFHNGSWHLTINAPPTFTETPPQYIEAKEGGSITMTCTAFGNPKPIVTWLKEGTLL  
GASGYQVSDGSLTVTSVSREDRGAYTCRAYSIQGEAVHTTHLLVQGPPFIVSPPENITV  
NISQDALLTCRAEAYPGNLTYTWYQDENYVFQNDLKLVRVILIDGTLIIFRVKPEDSGK  
YTCVPSNSLGRSPSASAYLTVQYPARVLNMPPVIYVPVGIHGYIRCPVDAEPPATVVKWN  
KDGRPLQVEKNLGTLMEDGSIRIEEATEEALGTYTCTVPYNTLGTMGQSAPARLVLDPP  
YFTVLPGWYRQEAGRELLIPCAAAGDPFPVITWRKVGKPSRSKHSALPSGSLQFRALSK  
EDHGEWECVATNVVTSITASTHLTVIGTSPHAPGSVRVQVSMTTANVSWEPGYDGGYEQT  
FSVWMKRAQFGPHDWLSLPVPPGPSWLLVDLTLEPETAYQFSVLAQNKLGTSASFSEVVTN  
TLAFPITTPLEPLVLTTPRCLIANRTQQGVLLSWLPPANHSFPIDRYIMEFRVAERWELL  
DDGIPGTEGEFFAKDLSQDTWYEFRLAVMQDLISEPSNIAGVSSTDIFPQPDLTEDGLA  
RPVLAGIVATICFLAAAILFSTLAACFVNKQRKRKLKRKKDPPLSITHCRKSLESPLSSG

KVSPESIRTLRAPSESSDDQGQPAAKRMLSPTREKELSLYKTKRAISSKKYSVAKAEAE  
AEATTPIELISRGPDGRFVMDPAEMEPSLKSRRIEGFPFAEETDMYPEFRQSDEENEDPL  
VPTSVAALKSQLTPLSSSQESYLPPPAYSPRFQPRGLEGGLEGRLQATGQARPPAPRP  
FHHGQYYGYLSSSSPGEVEPPPFYVPEVGSPLSSVMSSPPLPTEGPFHGHTIPEENGENA  
SNSTLPLTQTPTGGRSPEPWGRPEFPFGGLETPAMMFPHQLPPCDVPESLQPKAGLPRGL  
PPTSLQVPAAYPGILSLEAPKGWAGKSPGRGPVPAPPAKWQDRPMQPLVSQGQLRHTSQ  
GMGIPVLPYPEPAEPGAHGGPSTFGLDTRWYEPQPRPRSPRQARRAEP SLHQVVLQPSR  
LSPLTQSPLSSRTGSPELAARARPRGLLQQAEMSEITLQPPAAVSFSRKSTPSTGSPSQ  
SSRSGSPSYRPAMGFTTLATGYSPPPGPAPAGPGDSDLVFGQTPSPRRTGEELLRPETP  
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>sp|Q96ET8|TV23C\_HUMAN Golgi apparatus membrane protein TVP23 homolog C OS=Homo sapiens  
GN=TVP23C PE=1 SV=3

MLQQDSNDDTEDVSLFDAEEETNRPRKAKIRHPVASFFHLFFRVSAIIVCLLCELLSSS  
FITCMVTIILLSCDFWAVKNVTGRMLVGLRWNNHIDEDGKSHWVFESRKESSENKTVS  
EAESRIFWLGLIACSVLWVIFAFSALFSFTVKWLRRSRHIAQTGLKVLGSRDPPASAFQS  
AGITGVSRCPGHPSRKFHQVDINSFTRITDRALYWKPAARLSSPPLRAAPGNCQQMAPAR  
LFLSLRLWAWRGGGESPNSRGTGEPGPKFHLASGMH

>sp|P04435|TVB2\_HUMAN T-cell receptor beta chain V region CTL-L17 OS=Homo sapiens GN=TCRB  
PE=2 SV=1

MGTSLLCWMALCLLGADHADTGVSNPRHNITKRGQNVTFRCDP ISEHNRLYWYRQTLGQ  
GPEFLTYFQNEAQLEKSRLLSDRFSAERP KGSFSTLEIQRTEQGDSAMYL CASSLAGLNQ  
PQHFGDGTRL SIL

>sp|Q8N427|TXND3\_HUMAN Thioredoxin domain-containing protein 3 OS=Homo sapiens GN=NME8  
PE=2 SV=2

MASKKREVQLQTVINNQSLWDEMLQNKGLTVIDVYQAWCGPCRAMQPLFRKLKNELNEDE  
ILHFAVAEADNIVTLQPFDRKCEPVFLFSVNGKII EKIQGANAPLVNKKVINLIDEERKI  
AAGEMARPQYPEIPLVDSSEVSEESPCESVQELYSIAIIKPDAVISKKVLEIKRKITKA  
GFIIIEAEHKTVLTEEQVNVFYSR IADQCDFEEFVSFMTSGLSYILVVSQGSKHNPSEET  
EPQTDTEPNERSEDQPEVEAQVTPGMMKNKQDSLQEYLERQH LAQLCDIEEDAANVAKFM  
DAFFPDFKKMKSMKLEKTLALLRPNLFHERKDDVLRI IKDEDFKILEQRQVVLSEKEAQA  
LCKEYENEDYFNKLIENMTSGPSLALVLLRDNGLQYWKQLLGPRTVEEAIEYFPESLCAQ  
FAMDSPVNLQYGSDSL ETAEREIQHFFPLQSTLGLIKPHATSEQREILKIVKEAGFDL  
TQVKKMFLTPEQIEKIYPKVTGKDFYKD LLEMLSVGPSMVMILTKWNAVAEWRRLMGPTD  
PEEAKLLSPDSIRAQFGISK LKNIVHGASNAYEAEKVVNRLFEDPEEN

>sp|Q8TAI1|TYMOS\_HUMAN TYMS opposite strand protein OS=Homo sapiens GN=TYMSOS PE=5 SV=2  
MTPASGATASLGRRLARPRSRWDAAYLPAAVAVCVARASHVPNGTLRFVCKARRTMRPL  
PRRIEVRTKRGPQRPAAPERSPPRLPPSRHPSRRGPRRHLSGCSAPACRIPTGCRPCPG  
RPS

>sp|P17643|TYRP1\_HUMAN 5,6-dihydroxyindole-2-carboxylic acid oxidase OS=Homo sapiens  
GN=TYRP1 PE=1 SV=2

MSAPKLLSLGCIFFPLLLFQQARAQFPRQCATVEALRSGMCCPDLSPVSGPGTDRCGSSS  
GRGRCEAVTADSRPHSPQYPH DGRDDREVWPLRFFNRTCHCNGNFSGHNCGTCPRGWRGA  
ACDQRVLI VRRNLLDLSKEEKNHFVRALDMAKRTTHPLFVIATRSEEILGPDGNT PQFE  
NISIYNYFVWTHYYSVKKTF LGVGQESFGEVDFSHEGPAFLTWHRYHLLRLEKDMQEMLQ

EPSFSLPYWNFATGKNVCDICTDDLMGSRSNFDSTLISPNSVFSQWRVVCDSLEDYDTLG  
TLCNSTEDGPIRRNPAGNVARPMVQRLPEPQDVAQCLEVLFDTPPFYSNSTNSFRNTVE  
GYS DPTGKYDPAVRSLHNLHLFLNGTGGQTHLSPNDPIFVLLHTFTDAVFDEWLRRYNA  
DISTFPLENAPIGHNRYQNMVPFWPPVTNTEMFVTAPDNLGYTYEIQWPSREFSVPEIIA  
IAVVGALLLVALIFGTASYLIRARRSMDEANQPLLTDQYQCYAEYEKLQNPNSVV

>sp|Q53H54|TYW2\_HUMAN tRNA wybutosine-synthesizing protein 2 homolog OS=Homo sapiens  
GN=TRMT12 PE=1 SV=1

MRENVVSNMERESGKPVAVVAVVTEPWFTQRYREYLQRQKLFDTQHRVEKMPDGSVALP  
VLGETLPEQHLQELRNVRAPGSPCMLTQLPDPVPSKRAQGCSPAQKLCLEVSRWVEGRGV  
KWSAELEADLPRSWQRHGNLLLLSEDCFQAKQWKNLGPETVALALGVQRLAKRGRVS  
PDGTRTPAVTLLLDHGWVEHDNGIRYKFDVTQCMFSFGNITEKLRVASLSCAGEVLVD  
LYAGIGYFTLPFLVHAGAAFVHACEWNPHAVVALRNNLEINGVADRCQIHFGDNRKCLKS  
NIADRVILGLIPSSEEGWPIACQVLRQDAGGILHIHQNVESFPGKNLQALGVSKVEKEHW  
LYPQQITTNQWKNGATRDSRGKMLSPATKPEWQRWAESAETRIATLLQQVHGKPKWTQIL  
HIQPVKSYAPHVDHIVLDLECCPCPSVG

>sp|A6NIH7|U119B\_HUMAN Protein unc-119 homolog B OS=Homo sapiens GN=UNC119B PE=1 SV=1

MSGSNPKAAAAASAAGPGLVAGKEKKKAGGGVNLRLKARRQAPHHAADDGVGAATEQ  
ELLALDTRPEHVLRLSRVTENYLCKPEDNIYSIDFTRFKIRDLETGTVLFEIAKPCVSD  
QEEDEEEGGGDVDISAGRFVRYQFTPAFLRLRTVGATVEFTVGDKPVSNFRMIERHYFRE  
HLLKNFDFDFGFCIPSSRNTCEHIYEFQLSEDVIRLMIENPYETRSDSFYFVDNKLIMH  
NKADYAYNGGQ

>sp|A6NCW0|U17L3\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 3 OS=Homo  
sapiens GN=USP17L3 PE=3 SV=1

MGDDSLYLGGEWQFNHFSKLTSSRPDAFAEIQRSLPEKSPLSSETRVDLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYENASLQCLTYTLPLANYMLSREHSQTCQRP  
KCCMLCTMQAHITWALHSPGHVIQPSQALASGFHRGKQEDVHEFLMFTVDAMKKACLP  
GHKQVDHHSKDTTLIHQIFGGCWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVKQALEQL  
VKPEELNGENAYHCGCLQRAPASNTLTLHTSAKVLILVLKRFSDVAGNKLAKNVQYPEC  
LDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHDGHYFSYVKAQEGQWYKMDDAEVTVC  
SITSVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRAKQGELKRDHPCLQAP  
ELDEHLVERATQESTLDHWKFLQEKNKTKPEFNVGKVEGTLPPNALVIHQSKYKCGMKNH  
HP

>sp|D6R9N7|U17LI\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 18 OS=Homo  
sapiens GN=USP17L18 PE=3 SV=1

MEDDSLYLGGEWQFNHFSKLTSSRPDAFAEIQRSLPEKSPLSCETRVDLDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCH  
RHKGCMLCTMQAHITRALHNPGHVIQPSQALAAAGFHRGQEDAHEFLMFTVDAMKKACLP  
GHKQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQA  
LEQLVKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQ  
YPECLDMQPYMSQTNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVT  
ASSITSVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRAKQGELKRDHPCLQ  
APELDEHLVERATQESTLDHWKFLQEKNKTKPEFNVKVEGTLPPDVLVIHQSKYKCGMKNH  
HP

>sp|QOWX57|U17LO\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 24 OS=Homo sapiens GN=USP17L24 PE=1 SV=2

MEDDSLYLRGEWQFNHFSKLTSSRPDAFAEIQRTSLPEKSPLSCETRVDLCDDLAPVAR  
QLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLP  
GHKQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQA  
LEQLVKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNV  
QYPECLDMQPYSQPNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEV  
TASSITSVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRATQGELKRD  
HPCLAPELDEHLVERATQESTLDHWKFLQEKNKTKEFNVKVEGTLPPDVLVIHQSKYK  
CGMKNHP

EQSSLLNLSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ  
>sp|Q8WU68|U2AF4\_HUMAN Splicing factor U2AF 26 kDa subunit OS=Homo sapiens GN=U2AF1L4 PE=1 SV=2

MAEYLASIFGTEKDVNCSFYFKIGVCRHGDRC SRLHNKPTFSQTIVLLNLYRNPQNTAQ  
TADGSHCHVSDVEVQEYHDSFFEEVFTELQEKYGEIEMNVCDNLGDHLVGNVYVKFRRE  
EDGERAVAELSNRWFNGQAVHGELSPVTDFRESCCRQYEMGECTRGGFCNFMHLRPISQN  
LQRQLYGRGPRRRSPPRFHTGHHPRERNHRCSPDHWHGRF

>sp|A1L167|U2QL1\_HUMAN Ubiquitin-conjugating enzyme E2Q-like protein 1 OS=Homo sapiens GN=UBE2QL1 PE=1 SV=2

MKELQDIARLSDRFISVELVDES LFDWNVKLHQVDKDSVLWQDMKETNTEFILLNLTFPD  
NFPFSPPFMRVLSPRENGYVLDGGAICMELLTPRGWSSAYTVEAVMRQFAASLVKGQGR  
ICRKAGKSKKSFSRKEAEATFKSLVKTHEKYGWVTPPVSDG

>sp|A6NN06|U633A\_HUMAN Putative UPF0633 protein MGC21881 OS=Homo sapiens PE=5 SV=1

MRKLRLRASNPGPSGAPGTRRHFTSTGGGHHCGRRWLRRVRRSRSQTPSCQNLDPNPPIA  
RFPLPLERISEVPRRACLHGRDASSVWPPERSD

>sp|Q96LR5|UB2E2\_HUMAN Ubiquitin-conjugating enzyme E2 E2 OS=Homo sapiens GN=UBE2E2 PE=1 SV=1

MSTEAQRVDDSPSTSGGSSDGDQRESVQQEPEREQVQPKKKEGKISSKTAAKLSTSAKRI  
QKELAEITLDPNPNCAGPKGDNIEWRSTILGPPGSVYEGGVFFLDITFSPDYPFKPPK  
VTFRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGS IATQ  
YMTNRAEHDRMARQWTKRYAT

>sp|Q7Z7E8|UB2Q1\_HUMAN Ubiquitin-conjugating enzyme E2 Q1 OS=Homo sapiens GN=UBE2Q1 PE=1 SV=1

MQQPQPQGQQPGPGQQLGGQGAAPGAGGPGGGPGPGPCLRRELKLLSIFHRGHERFR  
IASACLDELSCFLLAGAGGAGAGAAPGPHLPPRGSVPGDPVRIHCNITESYPAVPP IWS  
VESDDPNLA AVLRLVDIKKGNTLLLQHLKRIISDLCKLYNLPQHPDVEMLDQPLPAEQC  
TQEDVSSSEDEDEMPEDTEDLDHYEMKEEPAEGKKS EDDGIGKENLAILEKIKKNQRQD  
YLN GAVSGSVQATDRLMKELRDIYRSQSFKGGNYAVELVNDSLYDWNVKLLKVDQDSALH  
NDLQILKEKEGADFILLNFSFKDNFPDPPFVRVVS PVLSGGYVLGGGAICMELLTKQGW  
SSAYSIESVIMQISATLVKGKARVQFGANKSQYSLTRAQQSYKSLVQIHEKNGWYTPPKE  
DG

>sp|Q13404|UB2V1\_HUMAN Ubiquitin-conjugating enzyme E2 variant 1 OS=Homo sapiens GN=UBE2V1 PE=1 SV=2

MAATTGSGVKVPRNFRLLLEELEGQKGVGDGT VSWGLEDDEDMTLTRWTGMIIGPPRTIY

ENRIYSLKIECGPKYPEAPPFVRVFTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKVV  
LQELRRLLMMSKENMKLPQPPEGQCYSN

>sp|Q92995|UBP13\_HUMAN Ubiquitin carboxyl-terminal hydrolase 13 OS=Homo sapiens GN=USP13  
PE=1 SV=2

MQRRGALFGMPGGSGGRKMAAGDIGELLVPHMPTIRVPRSGDRVYKNECAFSYDSPNSEG  
GLYVCMNTFLAFGREHVERHFRKTGQSVYMLKRVREKVRGASGGALPKRRNSKIFLDL  
DTDDDLNSDDYEYEDAKLVIFPDHYEIALPNIEELPALVTIACDAVLSSKSPYRKQDPD  
TWENELPVSKYANNTQLDNGVRIPPSGWKCARCDLRENLWNLTDGSVLCGKWFFDSSG  
GNGHAEHYRDMGYPLAVKLTITPDGADVVSFQEEEPVLDPHLAKHLAHFGIDMLHMHG  
TENGLQDNDIKLRVSEWEVIQESGTLKPMYGPYTGKLNLSYLVSSVMQAIFSIPEF  
QRAYVGNLPRIFDYSPLDPTQDFNTQMTKLGHGLLSGQYKPPVKSELIEQVMKEEHKPQ  
QNGISPRMFKA FVSKSHPEFSSNRQQDAQEFFLHLVNLVERNRI SENPSDVFRFLVEER  
IQCCQTRKVR YTERVDYLMQLPVAMEAATNKDELIAYELTRREAEANRRPLPELVRAKIP  
FSACLQAFSEPENVDDWFSSALQAKSAGVKT SRFASFPEYLVVQIKKFTFGLDWVPKKFD  
VSIDMPDLLDINHLRARGLQPGEEELPDISPPIVIPDDSKDRLMNQLIDPSDIDESSVMQ  
LAEMGFPLEACRKAVYFTGNMGAEVAFNWIIVHMEEPDFAEPLTMPGYGGAASAGASVFG  
ASGLDNQPPEEIVAIITSMGFQRNQAIQALRATNNLERALDWIFSHPEFEEDSDFVIEM  
ENNANANI ISEAKPEGPRVKDGS GTYELFAFISHMGTSTMSGHYICHIKKEGRWVIYNDH  
KVCASERPPKDLGYMYFYRRIPS

>sp|Q9UPU5|UBP24\_HUMAN Ubiquitin carboxyl-terminal hydrolase 24 OS=Homo sapiens GN=USP24  
PE=1 SV=3

MESEEEQHMTTLLCMGFSDPATIRKALRLAKNDINEAVALLTNERPGLDYGGYEPMDSGG  
GPSPGPGGGPRGDDGGGGGPSRGGSTGGGGGFDP PPAYHEVVDAEKNDENGNCSEGE  
IEFPTTNLYELESRLTDHWSIPYKREESLGKCLLASTYLARLGLSESDENCRRFMDRCM  
PEAFKKLLTSSAVHKWGTEIHEGIYNMLMLLIELVAERIKQDPIPTGLLGVLTMFNPNDN  
EYHFKNRMKVSQRNWA EVFGEENMF AVSPVSTFQKEPHGWVVDLVNKFGE LGGFAAIQAK  
LHSEDIELGAVSALIQLPGVCAEYLNSSVQPM LDPVILTTIQDVRSVEEKDLKDKRLVS  
IPELLSAVKLLCMRFQPD LVTIVDDLRLDILLRMLKSPHFSAKMNSLKEVTKLIEDSTLS  
KSVKNAIDTDRLLDWLVENS VLSIALEGNIDQAQYCDRIKGI IELLGSKLSLDELTKIWK  
IQSGQSSTVIENIHTIIAAAVKFNSDQLNHLFVLIQKSWETESDRVRQKLLSLIGRIGR  
EARFETTSGKVL DVLWELAHPLTPSSLIQQALEEHLTILSDAYAVKEAIKRSYIIKCTE  
DIKRPGEWSGLEKNKDGFKSSQLNPNQFVWVPALRQLHEITRSFIKQTYQKQDKSIIQ  
DLKKNFEIVKLV TGS LIACHRLAAVAGPGLSGSTLVDGRYTYREYLEAHLKFLAFFLQ  
EATLYLGWNRAKEIWECLVTGQDVCELDREMC FEWFTKGQHDLESDVQQQLFKEKILKLE  
SYEITMNGFNLFKTTFFENVNLCDHRLKRQGAQLYVEKLELIGMDFIWKIAMESPDEEIAN  
EAIQLIINYSYINLNPR LKKDSVSLHKKFIADCYTRLEAASSALGGPTLTHAVTRATKML  
TATAMPTVATSVQSPYRSTKLVI IERLLLLAERYVITIEDFYSPRTILPHGASFHGHLL  
TLNVTYESTKDTFTVEAHSNETIGSVRWKIAKQLCSPVDNIQIFTNDSLLTVNKDQKLLH  
QLGFSDEQILTVKTS GSGTPSGSSADSSTSSSSSSSGVFSSSYAMEQEKS LPGVVMALVC  
NVFDMLYQLANLEEPRI TLVRKLLLLIPTDPAIQEALDQLDSLGRKKTLLSESSSQSSK  
SPSLSSKQQHQPSASSILESLFRSFAPGMSTFRVLYNLEVLSSKLMP TADDDMARSCAKS  
FCENFLKAGGLSLVNVMMQRDSIPSEVDYETRQGVYSICLQLARFLLVGQTMP TLLDEDL  
TKDGI EALSSRPFRNVS RQTSRQMSLCGTPEKSSYRQLSVSDRSSIRVEEII PAARVAIQ  
TMEVSDFTSTVACFMRLSWAAAAGRLDLVGSSQPIKESNSLC PAGIRNRLSSSGSNCSG

SEGEVALHAGICVRQQSVSTKDSLIAGEALLVTCLQRSQQLASFYNLPCVADFIID  
ILLGSPSAEIRRACDQLYTSLQTDTSAPHDVQKPNQFLLGVILTAQLPLWSPTSIMRGV  
NQRLLSQCMEYFDLRCLLDDLTSEMEQLRISPATMLEDEITWLDNFEPNRTAECETSE  
ADNILLAGHLRLIKTLLSLCGAEKEMLGSSLIKPLDDFLFRASRIILNSHSPAGSAATS  
QQDFHPKCSTANSRLAAYEVLVMLADSSPSNLQIIKELLSMHHPDPALTKEFDYLPPV  
DSRSSSGFVGLRNGGATCYMNAVFQQLYMQPGLPESLLSVDDDTDNPDDSVFYQVQSLFG  
HLMESKLQYYVPENFWKIFKMWNKELYVREQQDAYEFFTSLIDQMDEYLKMGDRDQIFKN  
TFQGIYSDQKICKDCPHRYEREEAFMALNLGVTSCQSLEISLDQFVRGEVLEGSNAYYCE  
KCKEKRITVKRTCIKSLPSVLVIHLMRFGFDWESGRSIKYDEQIRFPWMLNMEPYTVSGM  
ARQDSSEVGENGRSVDQGGGGSPRKKVALTENYELVGVIHSGQAHAGHYYSFIKDRRG  
CGKGKWKFNDTVIEEFDLNDETLEYECFGGEYRPKVYDQTNPYTDVRRRYWNAYMLFYQ  
RVSDQNSPVLPPKSRVSVVRQEAEDLSLAPSSPEISPPSSPRPHRPNNDRLSILTKLVK  
KGEKKGLFVEKMPARIYQMRDENLKFMKNRDVYSSDYFSFVLSLASLNATKLKHPYYP  
MAKVSLLQAIQFLFQTYLRTKKLRVDTEEWIATIEALLSKSFDACQWLVEYFISSEGRE  
LIKIFLLECNVREVRVAVATILEKTLDALFYQDKLSLHQLLEVLLALLDKDVPENCKN  
CAQYFFLFNTFVQKQGIKAGDLLLLRHSALRHMSFLLGASRQNNQIRRWSSAQAREFGNL  
HNTVALLVLHSDVSSQRNVAPGIFKQRPPIISAPSSPLLPHHEVEALLFMSEGKPYLLE  
VMFALRELTGSLALLIEMVYCCFCNEHFSFTMLHFIFKNQLETAPHELKNTFQLLHEIL  
VIEDPIQVERVKVFETENGLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAAKEYFKEN  
SHHWSWAVQWLQKKMSEHYWTPQSNVSNETSTGKTFQRTISAQDTLAYATALLNEKEQSG  
SSNGSESSPANENGDRHLQGGSESPMMIGELRSDLDVDP

>sp|Q9HAW8|UD110\_HUMAN UDP-glucuronosyltransferase 1-10 OS=Homo sapiens GN=UGT1A10 PE=1 SV=1

MARAGWTSVPVLCVCLLLTCGFAEAGKLLVVPMDGSHWFTMQSVVEKLILRGHEVVVMP  
EVSWQLERSLNCTVKTYSTSYTLEDQNREFMVFAHAQWKAQAQSIFSLLMSSSSGFLDLF  
FSHCRSLFNDRKLVLEYLKESFDVFLDPFDTCGLIVAKYFSLPSVVFTRGIFCHHLEEG  
AQCPAPLSYVPNDLLGFSDAMTFKERVWNHIVHLEDHLCQYLFRNALEIASEILQTPVT  
AYDLYSHTSIWLLRTDFVLDYKPKVMPNMIFIGGINCHQGKPLMEFEAYINASGEHGIV  
VFSLGSVMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVKWLPQNDLLGH  
PMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTNLVLEMTSEDL  
ENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAHDLTW  
YQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|P35503|UD13\_HUMAN UDP-glucuronosyltransferase 1-3 OS=Homo sapiens GN=UGT1A3 PE=1 SV=1

MATGLQVPLPWLATGLLLLLSVQPAESGKVLVVPIDGSHWLSMREVLRELHARGHQA  
VLTPEVNMHIKEENFFLTLYAISWTQDEFDRHVLGHTQLYFETEHLKKFFRSMAMLN  
NM SLVYHRSCVELLHNEALIRHLNATSFVVL TDPVNLCAAVLAKYLSIPTVFFLRNIPCDL  
DFKGTQCPNPSSYIPRLTTNSDHMTFMQVRKNMLYPLALSYICHAFSAPYASLASELFQ  
REVSVVDILSHASVWLFGRDFVMDYPRPIMPNMVFIGGINCANRKPLSQFEAYINASGE  
HGIVVFSLGSVMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVKWLPQND  
LLGHMPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTNLVLEMT  
SEDLNENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAH  
DLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|Q92890|UFD1\_HUMAN Ubiquitin fusion degradation protein 1 homolog OS=Homo sapiens GN=UFD1L PE=1 SV=3

MFSFNMFDHPIPRVFQNRFFSTQYRCFSVSMLAGPNDRSDVEKGGKIIMPPSALDQLSRLN  
ITYPMLFKLTNKNSDRMTHCGVLEFVADEGICYLPHWMMQNLLLEEGGLVQVESVNLQVA  
TYSKFQPPSPDFLDITNPKAVLENALRNFACLTTGDVIAINYNEKIYELRMETKPKAV  
SIIECMDNVDFDAPLGYKEPERQVQHEESTEGEADHSGYAGELGFRAFSGSGNRLDGKKK  
GVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPLVKKVEEDEAGGRFVAFSGEGQSL  
RKKGRKP

>sp|Q96QD9|UIF\_HUMAN UAP56-interacting factor OS=Homo sapiens GN=FYTTD1 PE=1 SV=3  
MNRFGTRLVGATATSSPPPKARSNENLDKIDMSLDDI IKLNRKEGKKQNFRLNRRLLQQ  
SGAQQFRMRVRWGIQQNSGFGKTSLNRRGRVMPGKRRPNGVITGLAARKTTGIRKGISPM  
NRPPLSDKNIEQYFPVLKRKANLLRQNEGQRKPVAVLKRPSQLSRKNNIPANFTRSGNKL  
NHQKDRQATFLFRRGLKVQAQLNTEQLLDDVVAKRTRQWRTSTTNGGILTVSIDNPGAV  
QCPVTQKPRLTRTAVPSFLTREQSDVKKVPKGVPQLQFDINSVGKQGTMTLNERFGILKE  
QRATLTYNKGSRFVTVG

>sp|Q7RTZ2|U17L1\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 1 OS=Homo  
sapiens GN=USP17L1 PE=3 SV=1  
MGDDSLYLGGEWQFNHFSKLTSSRPDAFAEIQRSTLPEKSPLSSETRVDLCDDLAPVAR  
QLAPREKLPLSSRPAAVGAGLQNMGNTCYENASLQCLTYTLPLANYMLSREHSQTCQRP  
KCCMLCTMQAHITWALHSPGHVIQPSQALAAGFHRGKQEDVHEFLMFTVDAMKKACLPGH  
KQVDHHCKDTTLIHQIFGGCWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVKQALEQL  
VKPEELNGENAYHCGCLQRAPASNTLTHTSAKVLILVLKRFSDVAGNKLAKNVQYPEC  
LDMQPYMSQQNTGPLYVYLYAVLVHAGWSCHDGHYFSYVKAQEVQWYKMDDAEVTVCSTI  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRAKQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVGKVEGTLPPNALVIHQSKYKCGMKNHHP  
EQQSSLLNLSSTTRTDQESMNTGTLASLQGRTRRAKGKNKHSKRALLVCQ

>sp|C9JVIO|U17LB\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 11 OS=Homo  
sapiens GN=USP17L11 PE=3 SV=1  
MEDDSLYLGGEWQFNHFSKLTSSRPDAFAEIQRSTLPEKSPLSCETRVDLCDLAPVAR  
QLAPREKLPLSSRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPGH  
KQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLQRAPASKTLTHTSAKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQTNTGPLYVYLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSSLLNLSSTTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|Q5VV11|U633B\_HUMAN Putative UPF0633 protein ENSP00000303136 OS=Homo sapiens PE=5 SV=1  
MRKLRLRASNPGPSGAPGTRQHFFSTSRGGHHCARRWLRVRRSRSQTPSYQNLDPNPPIV  
RFPLPLERISEVPRRACLHGRDASSVWPPPERSD

>sp|Q9GZZ9|UBA5\_HUMAN Ubiquitin-like modifier-activating enzyme 5 OS=Homo sapiens GN=UBA5  
PE=1 SV=1  
MAESVERLQQRVQELERELAQERSLQVPRSGDGGGGRVRIEKMSSEVVDSNPYSRLMALK  
RMGIVSDYEKIRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLLFYDYKVELANMNRLFFQP  
HQAGLSKVQAAEHLRNINPDVLFVHNYNITTVENFQHFMDRISNGGLEEGKPVLDVLS  
CVDNFEARMTINTACNELGQTWMESGVSENAVSGHIQLIIPGESACFACAPPLVVAANID

EKTLKREGVCAASLPTTMGVVAGILVQNVLFLLNFGTVSFYLGYNAMQDFFPTMSMKPN  
PQCDDRNCRKQEEYKKKVAALPKQEVIQEEEEIIHEDNEWGIELVSEVSEEELKNFSGP  
VPDLPEGITVAYTIPKKQEDSVTELTVEDSGESLEDLMAKMKNM

>sp|P41226|UBA7\_HUMAN Ubiquitin-like modifier-activating enzyme 7 OS=Homo sapiens GN=UBA7  
PE=1 SV=2

MDALDASKLLDEELYSRQLYVLGSPAMQRIQGARVLVSGLQGLGAEVAKNLVLMGVGSLT  
LHDPHTCWSDLAAQFLLSEQDLERSRAEASQELLAQLNRAVQVVVHTGDITEDLLDFQ  
VVVLTAAKLEEQLKVGTLCHKHGVCFLAADTRGLVGQLFCDFGEDFTVQDPTEAEPLTAA  
IQHISQGSPGILTLRKGANHYFRDGLVTFSGIEGMVELNDCDPRSIHVREDGSLEIGD  
TTTFSRYLRGGAITEVKRPKTVRHKSOLDTALLQPHVVAQSSQEVHHAHCLHQAFCALHKF  
QHLHGRPPQPWDPVDAETVVGLARDLEPLKRTEEEPLEEPLDEALVRTVALSSAGVLSPM  
VAMLGAVAAQEVKKAISRKFMPDLQWLYFDALDCLPEDGELLSPEDCALRGSRYDGQIA  
VFGAGFQEKLRQHYLLVGAGAIGCELLKVFAVGLGAGNSGGLTVVMDHIERSNLSRQ  
FLFRSQDVGRPKAEVAAAAARGLNPDQVIPLTYPLDPTTEHIYGDNFFSRVDGVAALD  
SFQARRYVAARCTHYLKPLLEAGSGTWGSATVFMHVTEAYRAPASAAASEDAPYPVCT  
VRYFPSTAETLQWARHEFEELFRLSAETINHHQQAHTSLADMDEPQTLTLLKPVLGVL  
VRPQNWQDCVAWALGHWKLCFHYGIKQLLRHFPPNKVLEDGTPFWSGPKQCPQPLEFDN  
QDTHLLYVLAANLYAQMHGLPGSQDWTALRELLKLLPQDPDQMAPIFASNLELASASA  
EFGPEQQKELNKALEVWSVGPPLKPLMFEKDDDSNFHVDVFVAAASLRCQNYGIPPVNRA  
QSKRIVGQIIPAIATTTAAVAGLLGLELYKVVSQPRPRSAFRHSYLHLAENYLIRYMPFA  
PAIQTFHHLKWTSDRLKVPAGQPRTLKLAHLQEQHGLRVRILLHGSALLYAAGWSP  
EKQAQHLPLRVTELVQQLTGQAPAGQQRVLVLELSCEGDDDEDTAFPPPHYEL

>sp|Q8IYN6|UBAD2\_HUMAN UBA-like domain-containing protein 2 OS=Homo sapiens GN=UBAD2  
PE=1 SV=1

MSVNMDELRHQVMINQFVLAAGCAADQAKQLLQAAHWQFETALSTFFQETNIPNSHHHHQ  
MMCTPSNTPATPPNFPDALAMFSKLRASEGLQSSNSPMTAAACSPANFSPFWASSPPSH  
QAPWIPPSSPTTFHHLHRPQPTWPPGAQQGGAQQKAMAAMDGQR

>sp|Q8WVY7|UBCP1\_HUMAN Ubiquitin-like domain-containing CTD phosphatase 1 OS=Homo sapiens  
GN=UBCP1 PE=1 SV=2

MALPIIVKWGGQEYSVTTLSEDDTVLDLKQFLKTLTGVLPERQKLLGLKVKGKPAENDVK  
LGALKLPNTKIMMGTTREESLEDVLGPPPDNDVVDNFDIEDEVVEVENREENLLKISR  
RVKEYKVEILNPPREGKLLVLDVDTLFDHRSCAETGVELMRPYLHEFLTSAVEDYDIV  
IWSATNMKWEAKMKELGVSTNANYKITFMLDSAAMITVHTPRRGLIDVKPLGVIWGKFS  
EFYSKNTIMFDDIGRNFLMNPQNGLKIRPFMKAHNLRDKDKELLKLTQYLKEIAKLDDF  
LDLNHKYWERYLSKKQGQ

>sp|Q969M7|UBE2F\_HUMAN NEDD8-conjugating enzyme UBE2F OS=Homo sapiens GN=UBE2F PE=1 SV=1

MLTLASKLKRDDGLKGSRTAATASDSTRRVSVRDKLLVKEVALEANLPCTCKVHFPDPN  
KLHCFQLTVTPDEGYQGGKFQFETEVDPAYNMVPPKVCLTKIWHPNITETGEICLSLL  
REHSIDGTGWAPTRTLKDVVWGLNSLFTDLLNFDDPLNIEAAEHHLRDKEDFRNKVDDYI  
KRYAR

>sp|P61088|UBE2N\_HUMAN Ubiquitin-conjugating enzyme E2 N OS=Homo sapiens GN=UBE2N PE=1  
SV=1

MAGLPRRIKETQRLLAEPVPGIKAEPDESNARYFHVVIAGPQDSPFEGGTFKLELFLPE  
EYPMAAPKVRFMTKIYHPNVDKLGRIKLDILKDKWSPALQIRTVLLSIQALLSAPNPDDP



LANDVAEQWKTNEAQAIETARAWTRYAMNNI

>sp|Q9NPD8|UBE2T\_HUMAN Ubiquitin-conjugating enzyme E2 T OS=Homo sapiens GN=UBE2T PE=1 SV=1

MQRASRLKRELHMLATEPPPGITCWQDKDQMDDLRAQILGGANTPYEKGVFKLEVIIPER  
YPFEPPQIRFLTPIIYHPNIDSAGRICLDVCLKLPPKGAWRPSLNIATVLTISIQLLMSEPNP  
DDPLMADISSEFKYNKPAFLKNARQWTEKHARQKQKADEEEMLDNLPEAGDSRVHNSTQK  
RKASQLVGIEKKFHPDV

>sp|Q15386|UBE3C\_HUMAN Ubiquitin-protein ligase E3C OS=Homo sapiens GN=UBE3C PE=1 SV=3

MFSFEGDFKTRPKVSLGGASRKEEKASLLHRTQEERRKREEERRRLKNAIIIQSFIIRGYR  
DRKQQYSIQRSADFRCATLSQSGGAFPIANGPNLTLLVRQLLFFYKQNEFSKRLIWLYQN  
LIKHSSLFVKQLDGSERLTCLFQIKRLMSLCCRLQNCNDDSLNVALPMRMLEVFSSSENT  
YLPVLQDASYVVSVEIQILHYMIHNGYYRSLYLLINSKLPSSIEYSDLSRVPIAKILLEN  
VLKPLHFTYNSCEGARQQVFTAFTEEFLAAPFTDQIFHFIIPALADAQTVFPYEPFLNA  
LLLIESRCSRKSGGAPWLFYFVLTVGENYLGALSEEGLLVYLRVLQTFLSQLPVSPASAS  
CHDSASDSEEESEADKPSSPEDGRLSVSYITEECLKKLDTKQQTNTLLNLVWRDSASEE  
VFTTMASVCHTMLVQHRMMVPKVRLLYSLAFNARFLRHLWFLISSMSTRMITGSMVPLLQ  
VISRGSPMSFEDSSRIIPLFYLFSSLSFSLISIHNEFFGDPIEVVGQRQSSMMPFTLE  
ELIMLSRCLRDACLGIIKLAYPETKPEVREEYITAFQSIGVTTSSSEMQQCIQMEQKRWIQ  
LFKVITNLVKMLKSRDTRRNFCPPNHWSLSEQEDIKADKVTQLYVPASRHVWRFRMRGRIG  
PLQSTLDVGLSPPLSVSEERQLAVLTELFPVVPFEERVKIFQRLIYADKQEVQGDGPFL  
DGINVTIRRNYYIEDAYDKLSPENEPDLKKRIRVHLLNAHGLDEAGIDGGGIFREFLNEL  
LKSGFNPNQGFFKTTNEGLLYPNPAAQMLVGDSFARHYYFLGRMLGKALYENMLVELPFA  
GFFLSKLLGTSADVDIHLASLDPEVYKNLLFLKSYEDDVEELGLNFTVVNNDLGEAQVV  
ELKFGGKDIPVTSANRIAYIHLVADYRLNRQIRQHCLAFRQGLANVVSLEWLRMFDQQEI  
QVLISGAQVPISELDKSFNTNYSGGYSADHPVIKVFWRVVEGFTDEEKRKLLKFVTSCSR  
PPLLGFKELYPAFCIHNGGSDLERLPTASTCMNLLKLPEFYDETLLRSKLLYAIECAAGF  
ELS

>sp|P35544|UBIM\_HUMAN Ubiquitin-like protein FUBI OS=Homo sapiens GN=FAU PE=1 SV=1

MLFVRAQELHTFEVTGQETVAQIKAHVASLEGIAPEDQVVLLAGAPLEDEATLGQCGVE  
ALTTELEVAGRMLGG

>sp|Q9NZI7|UBIP1\_HUMAN Upstream-binding protein 1 OS=Homo sapiens GN=UBP1 PE=1 SV=1

MAWVLKMDIEVIESGLVHDFDASLSGIGQELGAGAYSMSDVLALPIFKQEDSSLPLDGETE  
HPPFQYVMCAATSPAVKLHDETLTYLNQGSYEIRMLDNRKMGMPEINGKLVKSIIRVV  
FHDRRLQYTEHQLEGWKWNRPGRLLDLIPMSVGIIDTRTNPSQLNAVEFLWDPKRT  
SAFIQVHCISTEFTPRKHGGEKGVFPRIQVDTFKQNGEYTDHLHSASCQIKVFKPKGA  
DRKQKTDREKMEKRTAHEKEKYQPSYDTTILTEMLEPIIEDAVEHEQKSSKRTLPAKY  
GDSLAKRGSCSPWDAPTAYVNNSPSPAPTFTSPQQSTCSVPDSNSSSPNHQGDGASQTS  
GEQIQPSATIQETQQWLLKNRFSSYTRLFSNFSGADLLKLTKELDLVQICGAADGIRLYNS  
LKSRSVRPLRTIYVCREQPSSTVLQGGQQAASSASENGSGAPYVYHAIYLEEMIASSEVAR  
KLALVFNIPHLQINQVYRQGTGIHILVSDQMVMQNFQDESCFLFSTVKAESSDGIHILK

>sp|Q9NPG3|UBN1\_HUMAN Ubinuclein-1 OS=Homo sapiens GN=UBN1 PE=1 SV=2

MSEPHRVQFTSLPGSLNPAFLKKSREEAGAGEQHQCCEPAAAAVRITLTLFEPDHRKCP  
EFFYPELVKNIRGKVKGLQPGDKKKDLSDPFNDEEKERHKVEALARKFEEKYGGKKRRKD  
RIQDLIDMGYGYDESDFSIDNSEAYDELVPASLTTKYGGFYINSGTLQFRQASESEDDFI

KEKKKKSPKKRKLKEGGEKIKKKKKDDTYDKEKSKSKFSKAGFTALNASKEKKKKKYS  
GALSVKEMLKKFQKEKEAQKKREEEHKPVAVPSAEAGLRELEGASDPLLSLFGSTSDND  
LLQAATAMDSLTDLDLEHLLSESPEGSPFRDMDGSDSLGVGLDQEFRQPSSLPEGLPAP  
LEKRVKELAAARAAEGESRQKFFTQDINGILLDIEAQTRELSSQVRSGVYAYLASFLPC  
SKDALLKRARKLHLYEQGGRLKEPLQKLKEAIGRAMPEQMAKYQDECQAHTQAKVAKMLE  
EEKDKEQRDRICSDEEEDEEKGGRRIMGPRKKFQWNDEIRELLCQVVKIKLESQDLERNN  
KAQAWEDCVKGFLDAEVKPLWPKGWMQARTLFKESRRGHGHLTSILAKKKVMAPSKIKVK  
ESSTKPDKKVSVPSGQIGGPIALPSDHQTGGLSIGASSRELPSQASGGLANPPPVNLEDS  
LDEDLIRNPASSVEAVSKELAALNSRAAGNSEFTLPAPSKAPAEKVGGLCTEEKRNFAK  
PSPSAPPPASSLQSPLNFLAEQALALGSSQEKKPESSGYKELSCQAPLNKGLPEVHQSK  
AKHHSPLRTSHGPQVAVPVPGPQVKVFHAGTQQQKNFTPPSPFANKLQGPKASPTQCHRS  
LLQLVKTAAGQGQFHPSAPATSGGLSASSSSSHKTPASSSSALSHPAKPHSVSSAGSSYK  
NNPFASSISKHGVSSGSSSSGGTPVQSSVSGSLVPGIQPPSVGQATSRVPSSAGKKMPV  
SQKLTIVAPPGGPNGDSSGGTQGVAKLLTSPSLKPSAVSSVTSSTSLSKGASGTVLLAGS  
SLMASPYKSSSPKLSGAMSSNSLGIITPVPVPHVLSFSADSSAKAGVSKDAIVTGPAPG  
SFHHGLGHSLLAGLHSSPPHAAPLPHAAVPTHIPQSLPGASQLHGKGPVPRKL

>sp|Q14694|UBP10\_HUMAN Ubiquitin carboxyl-terminal hydrolase 10 OS=Homo sapiens GN=USP10  
PE=1 SV=2

MALHSPQYIFGDFSPDEFNQFFVTPRSSVELPPYSGTVLCGTQAVDKLPDGQEYQRIEFG  
VDEIEPSDTLPRTPSYSSISLTNPQAPFILGCTASKITPDGITKEASYGSIDCQYPGS  
ALALDGSSNVEAEVLNDGVSGGLGQREKKKKKRPPGYYSYLDGGDDSIESTEALVNGH  
ANSAPNSVSAEDAEFMGMPPSVTPRTCNSPQNSTDVSDIVPDSPPFGALGSDTRTAG  
QPEGPGADFGQSCFPAEAGRDTLSRTAGAPCVGTDITTENLGVANGQILESSGEGTATN  
GVELHTTESIDLPTKPESASPPADGTGSASGTLPVSQPKSWASLFHDSKPSSSSPVAYV  
ETKYSPPAISPLVSEKQVEVKEGLVPVSEDPVAIKIAELLENTLIHKPVSLQPRGLINK  
GNWCYINATLQALVACPPMYHLMKFIPLYSKVQRPCSTPMIDSFVRLMNEFTNMPVPPK  
PRQALGDKIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAEYLGFI LNGLHEEML  
NLKLLSPSNEKLTISNGPKNHSVNEEQEEQEGSEDEWEQVGPRNKTSVTRQADFVQT  
PITGIFGGHIRSVVYQQSSKESATLQPFFTLQLDIQSDKIRTVQDAESLVARESVQGYT  
TKTKQEVEISRRVTLEKLPPVLVLHLKRFVYEKTGGCQKLIKNI EYPVDLEISKELLSPG  
VKNKNFKCHRTYRLFVAVYHHGNSATGGHYTTDFVQIGLNGWLRIDDQTVKVINQYQVVK  
PTAERTAYLLYRRVDLL

>sp|O94782|UBP1\_HUMAN Ubiquitin carboxyl-terminal hydrolase 1 OS=Homo sapiens GN=USP1  
PE=1 SV=1

MPGVIPSENGLSRGSPSKNRLSLKFFQKKETKRALDFTDSQENEEKASEYRASEIDQV  
VPAAQSSPINCEKRENLLPFVGLNNLGNTCYLNSILQVLYFCPGFKSGVKHLFNIISRKK  
EALKDEANQKDKGNCKEDSLASYELICSLQSLIISVEQLQASFLNPEKYTDELATQPRR  
LLNTLRELNPMYEGYLQHDAQEVLQCILGNIQETCQLLKKEEVKNVAELPTKVVEEIPHPK  
EEMNGINSIEMDSMRHSEDFKEKLPKGNKGRKSDTEFGNMKKKVKLSKEHQSL EENQRQT  
RSKRKATSDTLESPPKIIPKYISENESPRPSQKKSRVKINWLKSATKQPSILSKFCSLGK  
ITTNQGVKGQSKENECDEEDLGKCESDNTNGCGLESPGNTVTPVNVNEVKPINKGEEQ  
IGFELVEKLFQGGQLVLRTRCLECESLTERREDFQDISVPVQEDEL SKVEESSEISPEPKT  
EMKTLRWAISQFASVERIVGEDKYFCENCHHYTEAERSLLFDKMEVITIHLCFAASGL  
EFDCYGGGLSKINTPLLTPLKLSLEEWSTKPTNDSYGLFAVVMHSGITISSGHYTASVKV

TDLNSLELDKGNFVVDQMCEIGKPEPLNEEEARGVVENYNDEEVSIIRVGNTQPSKVLNK  
KNVEAIGLLGGQKSKADYELYNKASNPKVASTAFAENRNSETSDTTGTESDRNKESSD  
QTGINISGFENKISYVVQSLKEYEGKWLFDSEVKVTEEKDFLNSLSPSTSPTSTPYLL  
FYKKL

>sp|Q9Y2K6|UBP20\_HUMAN Ubiquitin carboxyl-terminal hydrolase 20 OS=Homo sapiens GN=USP20  
PE=1 SV=2

MGDSRDLCPHLDSIGEVTKEDLLLSKSGTCQSCGVTGPNLWACLQVACPYPVGCGESFADH  
STIHAQAKKHNLTVNLTTFRLWCYACEKEVFLEQRLAAPLLGSSSKFSEQDSPPSHPLK  
AVPIAIADEGESESEDDDLKPRGLTGMKNLGNSCYMNAALQALSNCPLTQFFLECGGLV  
RTDKKPALCKSYQKLVSEVWHKKRPSYVVPSTLSHGIKLVNPMFRGYAQDQTQEFRLCLM  
DQLHEELKEPVVATVALTEARDSSDSDTDEKREGDRSPSEDEFSLCDSSSDRGECDGQGR  
GGGSSQAETELLIPDEAGRAISEKERMKDRKFSWGQRTNSEQVDEDADVDTAMAALDDQ  
PAEAQPPSPRSSPCRTPEPDNDAHLRSSSRPCSPVHHHEGHAKLSSSPPRASPVRMAPS  
YVLKKAQVLSAGSRRRKEQRYRSVISDIFDGSILSLVQCLTCDRVSTTVETFQDLSLPI  
GKEDLAKLHSAIQNVPAKPGACGDSYAAQWLAFIVEYIRRFVVSCTPSWFWGPVVTLE  
DCLAFFAADELKGDNMYSERCKKL RNVKYCKVLRLPEILCIHLKRFRHEVMYSFKIN  
SHVSFPLEGLDLRPLAKECTSQITTYDLLSVICHHTAGSGHYIAYCQNVINGQWYEFD  
DQYVTEVHETVVQNAEGYVLFYRKSSSEAMRERQQVVS LAAMREPSLLRFYVSREWLNKF  
NTFAEPGPITNQTFLCSHGGIPPHKYHYIDDLVVILPQNVWEHLYNRFGGPAVNHLVYC  
SICQVEIEALAKRRRIEIDTFIKLNKAFQAEESPGVIYCISMQWFEWEAFVKGDNEPP  
GPIDNSRIAQVKSGSHVQLKQGADYGQISEETWTYLNSLYGGGPEIAIRQSVAAQPLGPEN  
LHGEQKIEAETRAV

>sp|A6NNY8|UBP27\_HUMAN Ubiquitin carboxyl-terminal hydrolase 27 OS=Homo sapiens GN=USP27X  
PE=2 SV=3

MCKDYVYDKDIEQIAKEEQGEALKLQASTSTEVSHQQCSVPGLGEKFPTWETTKPELELL  
GHNPRRRRITSSFTIGRLINLGNTCFMNCIVQALHTHPILRDFFLSDRHRCEMPSP  
CLVCEMSSLFRELYSGNPSPHVPYKLLHLVWIHARHLAGYRQQDAHEFLIAALDVLHRHC  
KGDDVGKAANNPNHCNCIIDQIFTGGLQSDVTCQACHGVSTTIDPCWDISLDLPGSCTSF  
WPMSPGRESSVNGESHIPGITTLDCLRRFTRPEHLGSSAKIKGSCQSYQESTKQLTMN  
KLPVVACFHFKRFEHSAKQRRKITTYISFPLELDMTPFMASSKESRMNGQLQLPTNSGNN  
ENKYSLFAVNVHQTLES GHYTSFIRHHKDQWFKCDDAVITKASIKDVL DSEG YLLFYHK  
QVLEHESEKVKEMNTQAY

>sp|Q70CQ3|UBP30\_HUMAN Ubiquitin carboxyl-terminal hydrolase 30 OS=Homo sapiens GN=USP30  
PE=1 SV=1

MLSSRAEAAMTAADRAIQRFRLTGAAVRYKVMKNWGVIGGIAAALAAGIYVIWGPITERK  
KRRKGLVPGLVNLGNTCFMNSLLQGLSACPAFIRWLEEFTSQYSRDQKEPPSHQYLSLTL  
LHLLKALSCQEVTDDEVLDASCLLDVLRMYRWQISSFEEQDAHELFHVITSSLEDERDRQ  
PRVTHLFDVHSLEQQSEITPKQITCRTRGSPHPTS NHWKSQH PFHGRLTSNMVCKHCEHQ  
SPVRFDTFDSL SLSIPAATWGHP LLDHCLHHFISSESVRDVVCDNCTKIEAKGTLNGEK  
VEHQRTTFVKQLKLGKLPQCLCIHLQRLSWSSHGTPLKRHEHVQFNEFLMMDIYKYHLLG  
HKPSQHNPKNKNPGPTLELQDGP GAPT PVLNQPGAPKTQIFMNGACSPSLLPTLSAPMP  
FPLPVVPDYSSSTYLFRLMAVVVHHGDMHSGHFV TYRRSPPSARNPLSTSNQWLWVSDDT  
VRKASLQEVLSSSAYLLFYERVLSRMQHQSQECKSEE

>sp|Q70CQ2|UBP34\_HUMAN Ubiquitin carboxyl-terminal hydrolase 34 OS=Homo sapiens GN=USP34  
PE=1 SV=2

MCENCADLVEVLNEISDVEGGDGLQLRKEHTLKIFTYINSWTQRQCLCCFKEYKHLEIFN  
QVVCALINLVIAQVQVLRDQLCKHCTTINIDSTWQDESNQAEPLNIDRECNEGSTERQK  
SIEKKSNNSTRICNLTEEESKSSDPFSLWSTDEKEKLLLCVAKIFQIQFPLYTAYKHNT  
PTIEDISTQESNILGAFCDMNDVEVPLHLLRVVCLFCGKNGLSLMKDCFEYGTPELTPFL  
IAHAFITVVSNIWLHIPAVMQHIIPFRTYVIRYLCKLSDQELRQSAARNMADLMWSTV  
KEPLDTTLCFDKESLDLAFKYFMSPTLTMRLAGLSQITNQLHTFNDVCNNESLVSdTETS  
IAKELADWLISNNVEHIFGPNLHIEIIKQCQVILNFLAAEGRSTQHIDCIWAAAQLKH  
CSRYIHDLPFSLIKNLDPVPLRHLLNLVSALEPSVHTEQTLYLASMLIKALWNNALAKA  
QLSKQSSFASLLNTNIPIGNKKEEEELRRTAPSPWSPAASPQSSDNSDTHQSGGSDIEMD  
EQLINRTKHVQQRSLDTEESMQGSSDETANSGEDGSSGPGSSSGHSDGSSNEVNSSHASQ  
SAGSPGSEVQSEDIADIEALKEEDEDHGHNPCKSSCGTDLNRNKLESQAGICLGDSSQ  
MSERNGTSSGTGKDLVFNTESLPSVDNRMRLDACSHSEDPEHDISGEMNATHIAQGSQE  
SCITRTGDFLGETIGNELFNCRQFIGPQHSHHHHHHHHHHGHMVDMLSADDVSCSSSQ  
VSAKSEKNMADFGEESGCEEELVQINSHAELTSHLQQHLPNLASIYHEHLSQGPVVHKH  
QFNSNAVTDINLDNVCKKGNTLLWDIVQDEDAVNLSSEGLINEAEKLLCSLVCWFTDRQIR  
MRFIEGCLENLGNRSVVISLRLPKLFGTFQFGSSYDTHWITMWAEEKELNMMKLFFDN  
LVYYIQTVREGRQKHALYSHSAEVQVRLQFLTCVFSTLGSPDHFRLSLEQVDILWHCLVE  
DSECYDDLHWFLNQVRSKDQHMGMETYKHLFLEKMPQLKPETISMTGLNLFQHLCNLA  
RLATSAYDGCNSNELCGMDQFWGIALRAQSGDVSRAAIQYINSYINGKTGLEKEQEFIS  
KCMESLMIASSSLEQESHSSLMVIERGLMLKTHLEAFRRRFAYHLRQWQIEGTGISSHL  
KALSDKQSLPLRVVCQAGLPDKMTIEMYPDQVADLRAEVTHWYENLQKEQINQQAQLQ  
EFGQSNRKGEFPGLMGPVRMISSGHELTDDYDEKALHELGFKDMQMVVSLGAPRRERK  
GEGVQLPASCLPPPQKDNIPLLQLQEPHLLTFLDLEMLASFPPSGKVAVDDSESLRC  
EELHLHAENLSRRVWELLMLLPTCPNMLMAFQNISDEQSDGNFQWELLKIKSAHKLLYA  
LEIIIEALGKPNRRIRRESTGSYSDLYPDSDDSSDQVENSKNWSCKFVAAGGLQQLLEI  
FNSGILEPKEQESWTWQLDCLACLLKLICQFAVDPSDLDLAYHDVFAWSGIAESHRKRT  
WPGKSRKAAGDHAKGLHIPRLTEVFLVLVQGTSLIQRLMSVAYTYDNLAPRVLKAQSDHR  
SRHEVSHYSMWLLVSWAHCCSLVKSSLADSDHLQDWLKKLTLLIPETAVRHESCSGLYKL  
SLSGLDGGDSINRSFLLLAASLTLLKFLPDQAQALKPIRIDDYEEEPILKPGCKEYFWLLCK  
LVDNIHIKDAQTTLLDLALARHLADCIRESREILDHQDGNVEDDGLTGLLRLATSVVKH  
KPPFKFSREGQEFLRDIFNLLFLLPSLKDRQQPKCKSHSSRAAAYDLLVEMVKGSVENYR  
LIHNWVMAQHMQSHAPYKWDYWPHEVDRAECRFVGLTNLGATCYLASTIQQLYMIPEARQ  
AVFTAKYSEDMKHKTTLLELQKMFTYLMSECKAYNPRPFCKTYTMDKQPLNTGEQKDMT  
EFFTDLITKIEEMSPCLKNTVKSIFGGVITNNVSLDCEHVSQTAEFYTVRCQVADMKN  
IYESLDEVTIKDTLEGDNMYTCSHCGKKVRAEKRAKCFKKLPRIILSFNTMRYTFNMVTMMK  
EKNVTHFSFPLRLDMTPYTEDFLMGKSERKEGFKEVSDHKSSESIEYDLIGVTVHTGTA  
DGGHYYSFIRDIVNPAYKNNKWYLFNDAEVKPFDSAQLASECFGGEMTTKTYDSVTDKF  
MDFSFEKTHSAYMLFYKRMEPEEEENGREYKFDVSSELLEWIIWHDNMQFLQDKNIFEHTYF  
GFMWQLCSCIPSTLPDPKAVSLMTAKLSTSFVLETFIHSKEKPTMLQWIELLTKQFNNSQ  
AAACEWFLDRMADDWWPMQILIKCPNQIVRQMFQRLCIHVIQRLRPVHAHLYLQPGMEDG  
SDDMDTSVEDIGGRSCVTRFVRTLLLIMEHGVKPHSKHLTEYFAFLYEFAMGEEESQFL  
LSLQAISTMVHFYMGTKPENPQVEVLSEEEGEEEEEEEDILSLAEKYRPAALEKMIAL

VALLVEQSRSERHLTLSQTDMAALTGGKGFPLFQHIRDGINIRQTCNLIFSCLCRYNNRL  
AEHIVSMLFTSIAKLTPAANPFFKLLTMLMEFAGGPPGMPFFASYILQRIWEVIEYNPS  
QCLDWLAVQTPRNKLAHWSVLQNMENWVERFLLAHNYPRVRTSAAYLLVSLIPSNSFRQM  
FRSTRSLHIPTRDPLSPDTTVVHLHQVYNVLLGLLSRAKLYVDAAVHGTTKLVPYFSFMT  
YCLISKTEKLMFSTYFMDLWNLFQPKLSEPAIATNHNKQALLSFWYNVCADCPENIRLIV  
QNPVVTKNIAFNILADHDDQDVVLFNRMPLPAYYGILRLCCEQSPAFTRLASHQNIQW  
AFKNLTPHASQYPGAVEELFNLMQLFIAQRPMREEELEDIKQFKKTTISCYLRCLDGRS  
CWTTLISAFRILLESDEDRLLVFNRLILMTESFNTLHMMYHEATACHVTGDLVELLSI  
FLSVLKSTRPYLQRKDVKQALIQWQERIEFAHKLLTLLNSYSPPELRNACIDVLKELVLL  
SPHDFLHTLVPLQHNHCTYHHSNIPMSLGPYFPCRENIKLIGGKSNIRPPPELNMCLL  
PTMVETSKGKDDVDRMLLDYFFSYHQFIHLLCRVAINCEKFTETLVKLSVLVAYEGLPL  
HLALFPKLWTELCQTSAMSKNCIKLLCEDPVFAEYIKCILMDERTFLNNNIVYTFMTHF  
LLKVQSQVFSEANCANLISTLITNLISQYQNLQSDFSNRVEISKASASLNGDLRALALL  
SVHTPKQLNPALIPTLQELLSKCRCTCQQRNSLQEQAERKTKDDEGATPIKRRRVSSD  
EEHTVDSCISDMKTETREVLTPSTSDNETRDSSIIDPGTEQDLSPENSSVKEYRMEVP  
SSFSEDMSNIRSQAEEQSNNGRYDDCKEFKDLHCSKDSTLAESEFPSTSISAVLSDL  
ADLRSCDGQALPSQDPEVALSLSCGHSRGLFSHMQQHDILDTLCRTIESTIHVVTRISGK  
GNQAAS

>sp|Q9P2H5|UBP35\_HUMAN Ubiquitin carboxyl-terminal hydrolase 35 OS=Homo sapiens GN=USP35  
PE=1 SV=3

MDKILEAVVTSSYPVSVKQGLVRRVLEAARQPLEREQCLALLALGARLYVGGAEELPRRV  
GCQLLHVAGRHPDVFAEFSARRVLRLQGGAGPPGPRALACVQLGLQLLPEGPADEV  
FALLRREVLRVTCERPGPAACAQVARLLARHPRCPDGPRLFCQQLVRCLGRFRCPAE  
GEEGAVEFLEQAQVSGLLAQLWRAQPAAILPCLKELFAVISCAREEPPSSALASVVQHL  
PLELMDGVVRNLSNDDSVTDSQMLTAISRMIDWVSWPLGKNIDKWIALLKGLAAVKKFS  
ILIEVSLTKIEKVFSKLLYPIVRGAALSVLKYMILLTFQHSHEAFHLLPHIPPMVASLVK  
EDSNSGTSCLEQLAELVHCVFRFPDFPDLYEPVMEAIKDLHVPNEDRIKQLLGQDAWTS  
QKSELAGFYPRLMAKSDTGKIGLINLGNTCYVNSILQALFMASDFRHCVLRLTENNSQPL  
MTKLQWLFGLFLEHSQRPAISPENFLSASWTPWFSPGTQQDCSEYLKYLLDRLHEEEKTGT  
RICQKLKQSSSPPEEPAPSSTSVEKMFGGKIVTRICCLCLNVSSREEAFTDSLAF  
PPPERCRRRLGSVMRPTEDITARELPPPTSAQGPGRVGRPRQRKHCITEDTPPTSLEYE  
GLDSKEAGGQSSQEERIEREEEGKEERTEKEEVGEEESTRGEGEREKEEVEEEEEKVE  
KETEKAEAEQEEDSLGAGTHPDAAIPSGERTCGSEGSRSVLDLVNYFLSPEKLTAENRY  
YCASCASLQDAEKVVELSQGPCYLILTLRFSFDLRTMRRRKILDDVSIPLLLRLPLAGG  
RGQAYDLCSVVVHSGVSSSEGHYYCYAREGAARPAASLGTADRPEPENQWYLFNDTRVSF  
SSFESVSNVTSFFPKDTAYVLFYRQRPREGPEAELGSSRVTEPTLHKDLMEAIKDNIL  
YLQEKEKEARSRAAYISALPTSPHWGRGFDEDKDEDEGSPGGCNPAGNGGDFHRLVF

>sp|Q9P275|UBP36\_HUMAN Ubiquitin carboxyl-terminal hydrolase 36 OS=Homo sapiens GN=USP36  
PE=1 SV=3

MPIVDKLKEALKPGRKDSADDGELGKLLASSAKKVLLQKIEFEPASKSFSYQLEALKSKY  
VLLNPKTEGASRHKSADDPPARRQGEHTYESCGDGPAPQKVLFPETERLSLRWERVFRV  
GAGLHNLGNTCFLNATIQLCTYTPPLANYLLSKEHARSCHQGSFCMLCVMQNHIVQAFAN  
SGNAIKPVSFIRDLKKIARHFRFGNQEDAHEFLRYTIDAMQACLNCAKLDRQTQATTL  
VHQIFGGYLRVRKCSVCKSVSDTYDPYLDVALEIRQAANIVRALELFVKADVLSGENAY

MCAKCKKKVPASKRFTIHRTSNVLTLSLKRFANFSGGKITKDVGYPEFLNIRPYMSQNG  
DPVMYGLYAVLVHSGYSCHAGHYCYVKASNGQWYQMNDSLVHSSNVKVVLNQQAYVLFY  
LRIPGSKKSPEGLISRTGSSSLPGRPSVIPDHSKKNIGNGISSPLTGKRQDSGTMKKPH  
TTEEIGVPISRNGSTLGLKSQNGCIPPKLPSPGSPPKLSQTPHMTILDDPGKKVKKPA  
PPQHFSRPTAQGLPGTSNSNSSRSGSQRQGSWDSRDVVLSTSPKLLATATANGHGLKGND  
ESAGLDRRGSSSSSPEHSASSDSTKAPQTPRSGAAHLCDSETNCSTAGHSKTPPSGADS  
KTVKLKSPVLSNTTTEPASTMSPPPAKKLALSAKKASTLWRATGNDLRPPPPSPSSDLTH  
PMKTSHPVVASTWPVHRARAVSPAPQSSSLQPPFSPHPTLLSSTPKPPGTSEPRSCSSI  
STALPQVNEDLVSLPHQLPEASEPPQSPSEKRKKTFVGEPPQLGSETRLPQHIREATAAP  
HGKRKRKKKKRPEDTAASALQEGQTQRQPGSPMYRREGQAQLPAVRRQEDGTQPQVNGQQ  
VGCVTDGHHASSRKRKRKAEGLEEGGLHQDPLRHSCSPMGDGDPEAMEESPRKKKKRK  
QETQRAVEEDGHLKCPRSAKPQDAVVPESSSCAPSANGWCPGDRMGLSQAPPVSWNGERE  
SDVVQELLKYSSDKAYGRKVLTDGKMSAVSQDAIEDSRQARTETTVDDWDEEFDRGKEK  
KIKKFKREKRRNFNAFQKLQTRRNFWSVTHPAKAASLSYRR

>sp|Q86T82|UBP37\_HUMAN Ubiquitin carboxyl-terminal hydrolase 37 OS=Homo sapiens GN=USP37  
PE=1 SV=2

MSPLKIHGPIRISMQTGITKWKEGSFEIVEKENKVSLLVHYNTGGIPRIFQLSHNIKNV  
VLRPSGAKQSRLMLTLQDNSFLSIDKVPSKDAEEMRLFLDAVHQNRLPAAMKPSQSGSGF  
GAILGSRTSQKETSRLSYSDNQASAKRGSLETKDDIPFRKVLGNPGRGSIKTVAGSGIA  
RTIPSLTSTSTPLRSGLLNRTKRMISTGSELNEDYPKENDSSSNKAMTDPSRKYL  
TSSREKQLSLKQSEENRTSGLLPLQSSSFYGSRAGSKEHSSGGTNLDRTNVSSQTPSAKR  
SLGFLPQPVPPLSVKKLRCNQDYTGWNKPRVPLSSHQQQLQGFSNLGNTCYMNAILQSLF  
SLQSFANDLLKQIPWKKIPLNALIRRFHLLVKKDICNSETKKDLLKKVKNAISATAER  
FSGYMQNDAHEFLSQCLDQLKEDMEKLNKTWKTEPVSGEENSPDISATRAYTCPVITNLE  
FEVQHSIIICKACGEIIPKREQNDLSIDLPRRKKPLPPRSIQDSLDLFFRAEELEYSCEK  
CGGKCALVRHKFNRLPRVLILHLKRYSFNVALSLNNIGQQV IIPRYLTLSSHCTENTKP  
PFTLGWSAHMAISRPLKASQMVNSCITSPSTPSKKFTFKSKSSLALCLDSDSEDELKRSV  
ALSQRLCEMLGNEQQEDLEKDSKLCPIEPDKSELENSGFDRMSEEEELLAAVLEISKRDA  
SPSLSHEDDDKPTSPDTGFAEDDIQEMPENPDTMETEKPKTITELDPASFTEITKDCDE  
NKENKTPEGSQGEVDWLQQYDMEREREEQELQQALAQSLQEAEWEQKEDDDLKRATELS  
LQEFNNSFVDALGSDSDGNEVDMEYTEAEAEELKRNAETGNLPHSYRLISVVS HIGS  
TSSSGHYISDVYDIKKQAWFTYNDLEVSKIQEAAVQSDRDRSGYIFFYMHKEIFDELLET  
EKNSQSLSTEVGKTTQAL

>sp|Q9H0E7|UBP44\_HUMAN Ubiquitin carboxyl-terminal hydrolase 44 OS=Homo sapiens GN=USP44  
PE=1 SV=2

MLAMDTCKHVGQLQLAQDHSSLPQKWHCVCNTTESIWACLSCSHVACGRYIEEHALKH  
FQESSHPVALEVNEMYVFCYLDDYVLNDNTGDLKLLRRTL SAIKSQNYHCTTRSGRFL  
RSMGTGDDSYFLHDGAQSLLQSEDQLYTALWHRRRILMGKIFRTWFEQSPIGRKKQEEPF  
QEKIVVKREVKKRRQLEYQVKAELSMPPRKSLRLQGLAQSTIIIEIVSVQVPAQTPASP  
AKDKVLSTSENEISQKVS DSSVKRRPIVTPGVTGLRNLGNTCYMNSVLQVLSHLLIFRQC  
FLKLDLNQWLAMTASEKTRSCKHPPVTDTVVYQMNECQEKDTGFVCSRQSSLSGLSGGA  
SKGRKMELIQPKEPTSQYISLCHLHTLFQVMWSGKVALVSPFAMLHSHVWRLIPAFRGYA  
QQDAQEFLCELLDKIQRELETTGTSLPALIPTSRKLIKQVLNVNNIFHGQLLSQVTCL  
ACDNKSNTIEPFWDLSEFPERYQCSGKDIASQPCLVTEMLAKFTETEALLEGKIYVCDQC

NSKRRRFSSKPVVLTEAQKQLMICHLPQVLRHLKFRWSGRNNREKIGVHVGFEELNM  
EPYCCRETLKSLRPECFIYDLSAVVMHHGKGFGSGHYTAYCYNSEGGFWVHCNDSKLSMC  
TMDEVCKAQAYILFYTQRTVTENGHSLKLLPPELLLGSHPNEDADTSSNEILS

>sp|Q86UV5|UBP48\_HUMAN Ubiquitin carboxyl-terminal hydrolase 48 OS=Homo sapiens GN=USP48  
PE=1 SV=1

MAPRLQLEKAAWRWAETVRPEEVSQEHITAYRIWLEPCIRGVCRRNCKGNPNCLVGIGE  
HIWLGEIDENSFHNIDDPNCERRKNSFVGLTNLGATCYVNTFLQVWFLNLELRQALYLC  
PSTCSDYMLGDGIQEEKDYEPQTICEHLQYLFALLQNSNRRYIDPSGFVKALGLDTGQQQ  
DAQEFSKLFMSLLEDTLQKQNPDPVRNIVQQQFCGEYAYVTVCNQCGRSKLLSKFYELE  
LNIQGHKQLTDCISEFLKEEKLEGNRYFCENCQSKQNATRKIRLLSLPCTLNLQLMRFV  
FDRQTGHKKLNTYIGFSEILDMEPYVEHKGGSYVYELSAVLIHRGVSAYSGHYIAHVKD  
PQSGEWYKFNDEIDIEKMEGKKLQLGIEEDLAEPSKSQTRKPKCGKGTCSRNAYMLVYRL  
QTQEKPNNTTVQVPAFLQELVDRDQSKFEWCIEAEMRKQSVDKGKAKHEEVKELYQRLP  
AGAEPYEFVSLEWLQKWDESTPTKPIDNHACLSDHKLHPDKISIMKRISYAADIFYS  
RYGGGPRLTVKALCKEVCVERCRILRLKNQLNEDYKTVNNLLKAAVKGSDGFVWGSSLR  
SWRQLALEQLDEQDGAEQSNGKMNGSTLNKDESKEERKEEEELNFNEDILCPHGELCIS  
ENERRLVSKEAWSKLQQYFPKAPFSPSYKECCSQCKILEREGEENEALHKMIANEQKTSL  
PNLFQDKNRPCLSNWPEDTDVLYIVSQFFVEEWRKFVRKPTRCSPVSSVGNALLCPHGG  
LMFTFASMTKEDSKLIALIWPSEWQMIQKLFVVDHVIKITRIEVDVNPSETQYISEPKL  
CPECREGLLCQQQRDLREYQTATIIYVHKVVDNKKVMKDSAPELNVSSSETEEDKKEAKPD  
GEKDPDFNQSNNGTKRQKISHQNYIAYQKQVIRRSMRHRKVRGEKALLVSANQTLKELKI  
QIMHAFSVAPFDQNLSDGKILSDDCATLGTGLVIPESVILLKADEPIADYAAMDDVMQV  
CMPEEGFKGTGLLGH

>sp|Q70CQ1|UBP49\_HUMAN Ubiquitin carboxyl-terminal hydrolase 49 OS=Homo sapiens GN=USP49  
PE=1 SV=1

MDRCKHVGRLRLAQDHSILNPQKWCCLECATTESVWACLKCSHVACGRYIEDHALKHFE  
TGHPLAMEVRDLYVFCYLCKDYVLNDNPEGDLKLLRSSLLAVRGQKQDTPVRRGRTLRS  
ASGEDVVLPRAPQGGPQMLTALWYRRQRLARTLRLWFEKSSRGQAKLEQRRQEEALER  
KKEEARRRRREVRRLLLELASTPPRKSARLLLHTPRDAGPAASRPAALPTSRRVPAATL  
KLRRQPAMAPGVTGLRNLGNTCYMNSILQVLSHLQKFRECFLNLDPSKTEHLFPKATNGK  
TQLSGKPTNSSATELSLRNDRAEACEREGFCWNGRASISRSLELIQNKPESSKHISLCRE  
LHTLFRVMWSGKWALVSPFAMLSVWSLIPAFRGYDQQAQEFLLHKKVQEELESEGT  
TRRILIPFSQRKLTKQVLKVVNTIFHGQLLSQVTCISCNYSNTIEPFWDLSLEFPERYH  
CIEKGFVPLNQTECLLTEMLAKFTETEALEGRIYACDQCNSKRRKSNPKPLVLSEARKQL  
MIYRLPQVLRHLKFRWSGRNNHREKIGVHVVDQVLTMEPYCCRDMLSSLDKETFAIDL  
SAVVMHHGKGFGSGHYTAYCYNTEGGFWVHCNDSKLNVCSEEVCKTQAYILFYTQRTVQ  
GNARISETHLQAQVQSSNNDEGRPQTFS

>sp|Q9UMX0|UBQL1\_HUMAN Ubiquitin-1 OS=Homo sapiens GN=UBQLN1 PE=1 SV=2

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FKKEISKRFKSHTDQLVLIFAGKILKDQDTLSQHGIDGLTVHLVIKTQNRPDHSAQQT  
NTAGSNVTTSTPNSNSTSGSATSNNPFGGLGGLAGLSSLGLNTTNFSELQSQMQRQLL  
SNPEMMVQIMENPFVQSMLSNPDLMRQLIMANPQMQLIQRNPEISHMLNPNPDIRQTLE  
LARNPAMQMEMMRNQDRALSNLESIPGGYNALRRMYTDIQEPMLSAAQEQFGGNPFASLV  
SNTSSGEGSQPSRTENRDPLPNPWAPQTSQSSSASSGTASTVGGTTGSTASGTSGQSTTA

PNLVPGVGASMFNTPGMQSLLQQITENPQLMQNMLSAPYMRSMMQSLSQNPDLAAQMMLN  
NPLFAGNPQLQEQRQQLPTFLQQMQNPDTLSAMSNPRAMQALLQIQQLQTLATEAPGL  
IPGFTPLGALGSTGGSSGTNGSNATPSENTSPTAGTTEPGHQFIIQQLQALAGVNPQL  
QNPEVRFQQLEQLSAMGFLNREANLQALITGGDINAAIERLLGSQPS

>sp|Q8IWW7|UBR1\_HUMAN E3 ubiquitin-protein ligase UBR1 OS=Homo sapiens GN=UBR1 PE=1 SV=1

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KQEEVQMSIFTPEWYLFGEFDPICLEKLKHSQAFQLCGRVFKSGETTYSCRDAIDPT  
CVLCMDCFQDSVHKNHRYKMHTSTGGGFCDCGDTEAWKTGPFCVNHEPGRAGTIKENSRC  
PLNEEVIVQARKIFPSVIKYVEMTIWEEKELPPELQIREKNERYYCVLFNDEHHSYDH  
VIYSLQRALDCELAEAQLHTTAIDKEGRRRAVKAGAYAACQEKEDIKSHSENVSQHPLHV  
EVLHSEIMAHQKFALRLGSWMNKIMSYSDFRQIFCQACLREPDSENPCLISRLMLWDA  
KLYKGARKILHELIFSSFFMEMEYKKLFAMEFVKYKQLQKEYISDDHDSISITALSVQ  
MFTVPTLARHLIEEQNVISVITETLLEVLPEYLDNRNKNFNFGYSQDKLGRVYAVICDLK  
YILISKPTIWTERRLMQFLEGFRSFLKILTCMQGMEEIRRVQGHIEVDPDWEAAIAIQM  
QLKNILLMFQEWACDEELLLVAYKECHKAVMRCSTSFISSTTVVQSCGHSLETKSYRV  
SEDLVSIHLPLSRTLGLHVRSLRGAVSRLHEFVSFEDFQVEVLVEYPLRCLVLVAQVV  
AEMWRRNGLSLISQVFFYQDVKCREEMYDKDIIMLQIGASLMDPNKFLLLVLRQYELAEA  
FNKTIISTKQDLIKQNTLIEEMLQVLIYIVGERYVPGVGNVTKEEVTMREI IHLICIEP  
MPHSAIAKNLPENENNETGLENVINKVATFKKPGVSGHGVYELKDESLKDFNMYFYHYSK  
TQHSKAEHMQKKRRKQENKDEALPPPPPEFCPAFSKVINLLNCDIMMYILRTVFERAID  
TDSNLWTEGMLQMAFHILALGLLEEKQQLQKAPEEVTFDFYHKASRLGSSAMNIQMILLE  
KLKGIPQLEGQKDMITWILQMFDTVKRLREKSCLIVATTSGSESINKDEITHDKEKAERK  
RKAEAAARLHRQKIMAQMSALQKNFIETHKLMYDNTSEMPGKEDSIMEEESTPAVSDYSRI  
ALGPKRGPVSVEKEVLTCILCQEEQEVKIENNAMVLSACVQKSTALTQHRGKPIELSGEA  
LDPLFMDPDLAYGTYTGSCGHVMHVCWQKYFEAVQLSSQRIHVDLFDLESGEYLCPLC  
KSLCNTVIPPIPLQPQKINSENADALAQLLTLARWIQTVLARISGYNIRHAKGENPIPIF  
FNQGMGDSTLEFHSILSFGVESSIKYSNSIKEMVILFATTIYRIGLKVPPDERDPRVPML  
TWSTCAFTIQAIEENLLGDEGKPLFGALQNRQHNLKALMQFAVAQRITCPQVLIQKHLVR  
LLSVVLPNIKSEDTPCLLSIDLFHVLVGAVLAFPSLYWDDPVDLQPSVSSSYNHLVLFH  
LITMAHMLQILLTVDTGLPLAQVQEDSEEHSASSFFAEISQYTSIGCDIPGWYLVWS  
LKNGITPYLRCAALFFHYLLGVTPEELHTNSAEGEYSALCSYLSLPTNLFLLFQYEWDT  
VRPLLQRWCADPALLNCLKQKNTVVRYPRKRNSLIELPDDYSCLLNQASHFRCPRADDE  
RKHPVLCLFCGAILCSQNICCQEIVNGEEVGACIFHALHCGAGVCIFLKIRECRVVLVEG  
KARGCAYPAPYLDEYGETDPGLKRGNPLHLSRERYRKLHLVWQQHCIEEIARSQETNQML  
LFGFNWQLL

>sp|Q8IWW8|UBR2\_HUMAN E3 ubiquitin-protein ligase UBR2 OS=Homo sapiens GN=UBR2 PE=1 SV=1

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EDMLAQHVLLGPMEWYLCGEDPAFGFPKLEQANKPSHLGRVFKVGEPTYSCRDAVDPT  
CVLCMECFLGSIHRDHRYRMTTSGGGFCDCGDTEAWKEGPYCQKHELNTSEIEEEEDPL  
VHLSIEDVIARTYNIFAITFRYAVEILTWEKESELPADEMVEKSDTYCMLFNDEVHTYE  
QVIYTLQKAVNCTQKEAIGFATTVDRDGRRSVRYGDFQYCEQAKSVIVRNTSRQTKPLKV  
QVMHSSIVAHQNFGLKLLSWLGSIIIGYSGLRRILCQVGLQEGPDGENSSLVDRLMLSDS  
KLWKGARSVYHQLFMSSLLMDLKYYKKLFAVRFAKNYQQLQRDFMEDDHERAVSVTALSQV  
FFTAPTARMLITEENLMSIIIKTFMDHLRHRDAQGRFQFERYTALQAFKFRRVQSLILD



LKYVLISKPTIEWSDEL RQKFLEGFDAFLELLKCMQGMDPITRQVGQHIEPEWEAAFTL  
QMKLTHVISMMQDWCASDEKVLIEAYKKCLAVLMQCHGGYTDGEQPITLSICGHSVETIR  
YCVS QEKVSIHLPVSRLLAGLHVLLSKSEVAYKFPELLPLSELSPMLIEHPLRCLVLCA  
QVHAGMWRNNGFSLVNQIYYYYHNVKCRREMFDDKDVVMLQTGVSMMDPNHFLMIMLSRFEL  
YQIFSTPDYGKRFSSEITHKDVVQQNNTLIEEMLYLIIMLVGERFSPGVGQVNATDEIKR  
EIIHQLSIKPMAHSELVKS LPEDENKETGMESVIEAVAHFKKPGLTGRGMYELKPECAKE  
FNLYFYHFSRAEQSKAEAAQRKLKRQNRD TALPPPVLPPFCPLFASLVNILQSDVMLCI  
MG TILQWAVEHNGYAWSESMLQRVLHLIGMALQEEKQHLENVTEEHVVTFTFTQKISKPG  
EAPKNSPSILAMLET LQNA PYLEVHKDMIRWILKTFNAVKKMRESSPTSPVAETEGTIME  
ESSRDKDKAERKRKAEIARLRREKIM AQMSEMRHFIDENKELFQQTLELDASTSAVL DH  
SPVASDMTLTALGPAQTQVPEQRQFVTCILCQEEQEVKVESRAMVLA AFVQRSTVLSKNR  
SKFIQDPEKYDPLFMHPDLSCGHTTSSCGHIMHAHCWQRYFDSVQAKEQRRQRLRLHTS  
YDVENG EFLCPLCECLSN TVIPLLLPPRNIFNNRLNFS DQPNLTQWIRTISQQIKALQFL  
RKEESTPNNA STKNSENVDELQLPEGFRPDFRKP IPYSESIKEMLTTFGTATYKVGLKVH  
PNEEDPRVPI MCWGSCAYTIQSIERILSDEDKPLFGPLPCRLDDCLSLTRFAAAHWTV A  
SVSVVQGHFCKLFASLV PND SHEELPCILDIDMFHLLVGLVLAFPALQCQDFSGISLGTG  
DLHIFHLVTMAHIIQILLTSCTEENGMDQENPPCEEESAVLALYKTLHQYTGSALKEIPS  
GWHLWRSVRAGIMPFLKCSALFFHYLNGVSPSPDIQVPGTSHFEHLCSYLSLPNNLICLF  
QENSEIMNSLIESWCRNSEVKRYLEGERDAIRYPRESNKLINLPEDYSSLINQASNFSCP  
KSGGDKSRAPTLCLVCGSLLCSQSYCCQTELEGEDVGACTAHTYSCGSGVGIFLRVRECQ  
VLFLAGKTGCFYSPPYLDYGETDQGLRRGNPLHLCKERFKKIQKLWHQHSVTEEIGHA  
QEANQTLVGIDWQHL

>sp|Q8TF42|UBS3B\_HUMAN Ubiquitin-associated and SH3 domain-containing protein B OS=Homo sapiens GN=UBASH3B PE=1 SV=2

MAQYGHPSPLGMAAREELYSKVTPRNRQQRPGTIKHGSALDVLLSMGFPRARAQKALAS  
TGGRSVQAACDWLFSHVGPFLDDPLPREYVLYLRPTGPLAQKLSDFWQSKQICGKNKA  
HNIFPHITLCQFFMCEDSKVDALGEALQTTVSRWKCKFSAPLPLELYTSSNFIGLFVKED  
SAEVLKKFAADF AEAASKTEVHVEPHKKQLHVTLAYHFQASHLPTLEKLAQNIDVKLGC  
DWVATIFSRDIRFANHETLQVIYPYTPQNDDLELVP GDFIFMSPMEQTSTSEGWIYGTS  
LTTGCSGLLPENYITKADECSTWIFHG SYSILNTSSSNSLTFGDGVLERRPYEDQGLGET  
TPLTIICQPMQPLRVNSQPGPQKRCLFVCRHGERMDVVF GKYWLSQCFDAKGRIYIRTNLN  
MPHSLPQRSGGFRDYEKDAPITVFGCMQARLVGEALLESNTIIDHVYCSPSLRCVQTAHN  
ILKGLQQENHLKIRVEPGLFEWTKWVAGSTLPAWI PPSELAAANLSVDTTYRPHIPI SKL  
VVSESYDTYISRSFQVTKEIISECKSKGNNILIVAHASSLEACTCQLQLSPQNSKDFVQ  
MVRKIPYLGFCSC EELGETGIWQLTDPPILPLTHGPTGGFNWRETL LQE

>sp|O94888|UBXN7\_HUMAN UBX domain-containing protein 7 OS=Homo sapiens GN=UBXN7 PE=1 SV=2

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TSSASVSTVRPHTEEEVRAPIPQKQEILVEPEPLFGAPKRRRPARSIFDGFDRDFQTETIR  
QEQELRNGGAIDKKLTTLADLFRPPIDLMHKGSFETAKECGMQNKWLMINI QNVQDFAC  
QCLNRDVWSNEAVKNIIREHFIFWQVYHDSEEGQRYIQFYKLGDFPYVSILDPRTGQKL V  
EWHQLDVSSFLDQVTGFLGEHGQLDGLSSSPKKCARSESLIDASEDSQLEAAIRASLQE  
THFDSTQTKQDSRDEESESELFSGSEEFISVCGSDEEEVENLAKSRKSPHKDLGHRKE  
ENRRPLTEPPVRTDPGTATNHQGLPAVDSEIEMPPEKADGVVEGIDVNGPKAQLMLRYP  
DGKREQITLPEQAKLLALVKHVQSKGYPNERFELLTNFPRRKLSHLDYDITLQEAGLCPQ

ETVQVQERN

>sp|Q9HAW7|UD17\_HUMAN UDP-glucuronosyltransferase 1-7 OS=Homo sapiens GN=UGT1A7 PE=1 SV=2

MARAGWTGLLPLYVCLLLTCGFAKAGKLLVPMDSHWFMTQSVVEKLILRGHEVVVMP  
EVSWQLGRSLNCTVKTYSTSYTLEDQDREFMVFADARWTAPLSAFSLLTSSSNGIFDLF  
FSNCRSLFNDRKLVEYLKESCFDAVFLDPFDACGLIVAKYFSLPSVVFARGIFCHYLEEG  
AQCPAPLSYVPRLLLGFSDAMTFKERVWNHIMHLEHLFCPYFFKNVLEIASEILQTPVT  
AYDLYSHTSIWLLRTDFVLEYKPVMPNMIFIGGINCHQKGPVPMFEFAYINASGEHGIV  
VFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLNNTILVKWLPQNDLLGH  
PMTRAFITHAGSHGVYESICNGVPMVMMPPLFGDQMDNAKRMETKGAGVTNLVLEMTSEDL  
ENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTW  
YQYHSLDVIGFLLAVVLTVAFITFKCCAYGRKCLGKKGRVKKAHKSKTH

>sp|Q9Y4X1|UD2A1\_HUMAN UDP-glucuronosyltransferase 2A1 OS=Homo sapiens GN=UGT2A1 PE=1 SV=2

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ITPTSNPSTLTFEIRVPFGKERIEGVIKDFVLTWLENRPSPTIWRFYQEMAKVIKDFHM  
VSQEICDGVLNQQLMAKLKSKFEVLVSDPVFPCGDIVALKLGIPFMYSLRFSPASTVE  
KHCGKVPYPPSYVPAVLSELTDQMSFTDRIRNFISYHLQDYMFTLWKSWSYYSKALGR  
PTTLCETMGKAEIWLIRTYWDFEFPRPYLPNFEFVGGLHCKPAKPLPKEMEEFIQSSGKN  
GVVVFSLGSMVKNLTEKANLIASALAQIPQKVLWRYKGKKPATLGNNTQLFDWIPQNDL  
LGHPKTKAFITHGGTNGIYEAIYHGVPMVGVPMFADQPDNIAHMKAKGAAVEVNLNMTS  
VDLLSALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAHD  
LTFWQYHSLDVIGFLLVCVTTAIFLVIQCLFSCQKFGKIGKKKKRE

>sp|P36537|UDB10\_HUMAN UDP-glucuronosyltransferase 2B10 OS=Homo sapiens GN=UGT2B10 PE=1 SV=1

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ILFDPNDSSTLKEVYPTSLTKTEFENIIMQLVKRLSEIQKDTFWLPFSQEILWAIND  
IIRNFCKDVVSNKKLMKKLQESRFDIVFADAYLPCGELLAELFNIPFVYSHSFSPGYSFE  
RHSGGFIFPPSYVPVMSKLSQMTFMERVKNMLYVLYFDFWFQIFNMKKWDQFYSEVLG  
RPTTLSETMRKADIWLMRNSWNFKFPHFPLPNVDFVGGLHCKPAKPLPKEMEEFVQSSGE  
NGVVVFSLGSMVSNMTEERANVIATALAKIPQKVLWRFDGKPKDALGLNTRLYKWIPQND  
LLGHPKTRAFITHGGANGIYEAIYHGIPMVGIPLFQDPDNIAHMKAKGAARVDFNTMS  
STDLLNALKTVINDPSYKENIMKLSRIHQDQPVKPLDRAVFWIEFVMRHKGAKHLRVAH  
NLTFWQYHSLDVIGFLLACVATVLFIIITKCLFCFWKFARKGKKGKRD

>sp|075795|UDB17\_HUMAN UDP-glucuronosyltransferase 2B17 OS=Homo sapiens GN=UGT2B17 PE=1 SV=1

MSLKWMSVFLMLQLSCYFSSGSCGKVLVWPTEYSHWINMKTILEELVQRGHEVIVLTSSA  
SILVNASKSSAIKLEVYPTSLTKNDLEDFMFMFDRWTYSISKNTFWSYFSQLQELCWEY  
SDYNIKLCEDAVLNKKLMRKLQESKFDVLLADAVNPGELLAELNIPFLYSLRFSVGYT  
VEKNGGFLFPPSYVPVMSSELSDQMIFMERIKNMIYLYFDFWFQAYDLKKWDQFYSEV  
LGRPTTLFETMGKAEIWLIRTYWDFEFPRPFLPNVDFVGGLHCKPAKPLPKEMEEFVQSS  
GENGIVVFSLGSMISNMSEESANMIASALAQIPQKVLWRFDGKPKNTLGSNTRLYKWLPQ  
NDLLGHPKTKAFITHGGTNGIYEAIYHGIPMVGIPLFADQHDNIAHMKAKGAALSVDIRT  
MSSRDLLNALKSVINDPIYKENIMKLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVA  
AHNLTWIQYHSLDVIAFLACVATMIFMITKCLFCFRKLAKTGKKKKRD

>sp|P30530|UFO\_HUMAN Tyrosine-protein kinase receptor UFO OS=Homo sapiens GN=AXL PE=1 SV=3

MAWRCPRMGRVPLAWCLALCGWACMAPRGTAEEPSFVGNGNITGARGLTGTLRCQLQV  
QGEPPEVHWLRDGGIILELADSTQTQVPLGEDEQDDWIVVSQLRITSLQLSDTGQYQCLVF  
LGHQTFVSQPGYVGLEGLPYFLEEPEDRTVAANTPFNLSCQAQGPPEPVDLLWLQDAVPL  
ATAPGHGPQRS LHVPGLNKTSSFSCEAHNAKGVTTSRTATITVLPQQPRNLHLVSRQPTE  
LEVAWTPGLSGIYPLTHCTLQAVLSNDGMGIQAGEPDPEEPLTSQASVPPHQLRLGSLH  
PHTPYHIRVACTSSQGPSSWTHWLPVETPEGVPLGPPENISATRNGSQAFVHWQEPRAPL  
QGTLGYSRLAYQQQDTPEVLM DIGLRQEVTLELQGDGVS NLTVCVAAAYTAAGDGPWSLP  
VPLEAWRPGQAQPVHQLVKEPSTPAFSWPWWYVLLGAVVAAACVLILALFLVHRRKKETR  
YGEVFEPTVERGELVVRYRVRKSYSRRTEATLNSLGISEELKEKLRDVMVDRHKVALGK  
TLGEGEFGAVMEGQLNQDDSIKVAVKTMKIAICTRSELEDFLSEAVCMKEFDHPNVMRL  
IGVCFQGSERESFPAPVVILPFMKHGDLSFLLYSRLGDQPVYLP TQMLVKFMADIASGM  
EYLSTKRFIHRDLAARNCMLENMSVCVADFGLSKKIYNGDYRQGRIAKMPVKWIAIES  
LADRVYTSKSDVWSFGVTMWEIATRGQTPYPGVENSEIYDYL RQGNRLKQPADCLDGLYA  
LMSRCWELNPQDRPSFTELREDLENTLKALPPAQEPDEILYVNMDEGGGYPEPPGAAGGA  
DPPTQPDPKDSCSCLTAAEVHPAGRYVLC PSTTPSPAQPADRGSPAAPGQEDGA

>sp|A0JNW5|UH1BL\_HUMAN UHRF1-binding protein 1-like OS=Homo sapiens GN=UHRF1BP1L PE=1 SV=2

MAGI IKKQILKHL SRFTKNLSPDKINLSTLKGEGLKNLELDEEVLQNMLDLPTWLAINK  
VFCNKASIRIPWTKL KTHPICLSLDKVIEMSTCEEPRSPNGPSPIATASGQSEYGFAEK  
VVEGISVSVNSIVIRIGAKAFNASFELS QLRIYSVNAHWEHGDLRFTRI QDPQRGEVLT  
KEINWQMIRIEADATQSSHLEIMCAPVRLITNQSKIRVTLKRRLKDCNVIATKLVLILDD  
LLWVLTDSQLKAMVQYAKSLSEAIEKSTEQRKSMAPEPTQSSTVVASAQVKTQTTSNAP  
DVND AIVKLFNDFDVKETSHHLVISHLDLHICDDIHAKEKESNRRITGGAMQLSFTQLTI  
DYYPYHKAGDSCNHWMYFSDATKTNGWANELLHEFECNVEMLKQAVKDHNVGSPPKSPT  
HASPQHTQTEKDYP LKGTCTPSVLSQQSKAKLMSSSVVRLADFN IYQVSTAEQCRSSP  
KSMICCNKKS LYPQEMSAVYIEFTEYYYPDGKDFPIPSPNLYSQLNALQFTVDERSILW  
LNQFLDLKQSLNQFMAVYKLNDSKSD EHV DVRVDGLMLKFVIPSEVKSECHQDQPRAI  
SIQSSEMIATNTRHCPNCRHSDLEALFQDFKDCDFFSKTYTSFPKSCDNFNLLHPIFQRH  
AHEQDTKMHEIYKGNITPQLNKNTLK TSAATDVWAVYFSQFWIDYEGMKSGKGRPISFVD  
SFPLSIWICQPTRYAESQKEPQTCNQVSLNTSQSESSDLAGRLKRKKLLKEYYSTESEPL  
TNGGQKPSSSDTFFRFSPSSSEAD IHLVHVHKHVSMQINHYQYLLLLFLHESLILLS  
ENL RKDVEAVTGSPASQTSICIGILLRSAELALLHPVDQANTLKSPVSESVPVVPDYLPT  
ENGDFLSSKRKQISR DINRIRSVTVNHMSDNRSMSVDLSHIPLKDPLLFKASDTNLQKG  
ISFMDYLSDKHLGKISEDESSGLVYKSGSGEIGSETSDKKDSFYTDSSILNYREDSN  
ILSFDSDGNQNILSSTLT SKGNETIESIFKAEDLLPEAASLSENLDISKEETPPVRTLSQS  
SLSGKPKERCPPNLAPLCVSYKNMKRSSQMSLDTISLDSMILEEQ LLES DGS DSHMFLE  
KGNKKNSTTNYRGTAESVNAGANLQNYGETSPDAISTNSEGAQENHDDLMSVVVFKITGV  
NGEIDIRGEDTEICLQVNQVTPDQLGNISLRHYLCNRVPGSDQKAVIHSKSSPEISLRFE  
SGPGAVIHSLLAEKNGFLQCHIENFSTEFLTSSLMNIQHFL EDET VATVMPMKIQVSNTK  
INLKDDSPRSSTVSLEPAPVTVIDHLVVERSDDGSFHIRDSHMLNTGNDLKENVKSDSV  
LLTSGKYDLKKQRSVTQATQTS PGVPWPSQSANFPEFSFDF TREQLMEENESLKQELAKA  
KMALAEAHLEKDALLHHIKMTVE

>sp|P52758|UK114\_HUMAN Ribonuclease UK114 OS=Homo sapiens GN=HRSP12 PE=1 SV=1

MSSLIRRVISTAKAPGAIGPYSQAVLVDRITIIYISGQIGMDPSSGQLVSGGVAEEAKQALK  
NMGEILKAAGCDFTNVVKTTVLLADINDFNTVNEIYKQYFKSNFPARAAYQVAALPKGSR  
IEIEAVAIQGPLTTASL

>sp|C9JPN9|UL17C\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17-like protein 12 OS=Homo sapiens GN=USP17L12 PE=3 SV=1

MEEDSLYLGGGEWQFNHFSKLTSSRPDAFAEIQRSLPEKSPLSCETRVDLCDLAPVAR  
QLAPREKLPLSNRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRH  
KGCMLCTMQAHITRALHNPBGHVIQPSQALAAAGFHRGKQEDAHEFLMFTVDAMKKACLPGH  
KQVDHHSKDTTLIHQIFGGYWRSQIKLHCHGISDTFDPYLDIALDIQAAQSVQQALEQL  
VKPEELNGENAYHCGVCLQRAPASKMLTLLTSKVLILVLKRFSDVTGNKIAKNVQYPEC  
LDMQPYMSQPNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DEHLVERATQESTLDHWKFLQEKNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHP  
EQQSSLLKLSSTTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ

>sp|Q13564|ULA1\_HUMAN NEDD8-activating enzyme E1 regulatory subunit OS=Homo sapiens GN=NAE1 PE=1 SV=1

MAQLGKLLKEQKYDRQLRLWGDHGQEALESABVCLINATATGTEILKNLVLPGIGSFTHI  
DGNQVSGEDAGNNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFF  
CRFTVVVATQLPESTSLRLADVLWNSQIPLLICRTYGLVGYMRIIIKEHPVIESHPDNAL  
EDLRDKPFPELREHFQSYDLHMEKKDHSHTPWIVIIAKYLAQWYSETNGRIPKTYKEK  
EDFRDLIRQGILKNENGAPEDENFEEAIAKNVTALNTTQIPSSIEDIFNDRCINITKQ  
TPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYREKAKKDAAAVGNH  
VAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISMDNPD  
NEIVLYMLRAVDRFHKKQGRYPGVSNYQVEEDIGKLKSLTGFLQEYGLSVMVKDDYVH  
EFCRYGAAEPHTIAAFLGGAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL

>sp|Q9BRT2|UQCC2\_HUMAN Ubiquinol-cytochrome-c reductase complex assembly factor 2 OS=Homo sapiens GN=UQCC2 PE=1 SV=1

MAASRYRRFLKLCEEWPVDETGRGDLGAYLRQVAQAFREGENTQVAEPEACDQMYESL  
ARLHSNYYKHKYRPRDTSFSGLSLEEYKLILSTDITLEELKEIDKGMWKKLQEKFAPKGP  
EEDHKA

>sp|Q6EMB2|TTLL5\_HUMAN Tubulin polyglutamylase TTLL5 OS=Homo sapiens GN=TTLL5 PE=1 SV=3

MPIVMARDLEETASSEDEEVISQEDHPCIMWTGGCRRIPVLVFHADAILTKDNNIRVIG  
ERYHLSYKIVRTDSRLVRSILTAHGFHEVHPSSTDYNLMWTGSHLKPFLRLTLSEAQKVN  
HFPRSYELTRKDRLYKNIIRMQHTHGFAFHILPQTFLPAEYAEFCNSYSKDRGPWIVK  
PVASSRGRGVYLINPNQISLEENILVSRYINNPLLIDDFKFDVRLYVLVTSYDPLVIYL  
YEEGLARFATVRYDQGAKNIRNQFMHLTNYSVNKKSGDYVSCDDPEVEDYGNKWSMSAML  
RYLKQEGRDTTALMAHVEDLIKTIIISAEIAIATACTFVPHRSSCFELYGFDVLIDSTL  
KPWLLEVNLSPSLACDAPLDLKIKASMISDMFTVVGVFCQDPAQRASTRPIYPTFESSR  
NPFQKPQRCRPLSASDAEMKNLVGSAREKGPGKLGGSVLGLSMEEIKVLRVKEENDRRG  
GFIRIFPTSETWEIYGSYLEHKTSMNMYLATRLFQDRMTADGAPELKIESLNSKAKLHAA  
LYERKLLSLEVRKRRRRSSRLRAMRPKYPVITQPAEMNVKTETESEEEEVALDNEDEEQ  
EASQEEASAGFLRENQAKYTPSLTALVENTPKENSMKVREWNKGGHCCKLETQELEPKFN  
LMQILQDNGNLSKMQARIAFSAYLQHVQIRLMKDSGGQTFSASWAAKEDEQMELVVRFLK

RASNNLQHSLRMVLPSSRRLALLERRRILAHQLGDFIIVYNKETEQAEEKSKKKVEEEEE  
DGVNMENFQEFIRQASEAELEEVLTFYQTQKNKSASVFLGTHSKISKNNNNYSDSGAKGDH  
PETIMEEVKIKPPKQQQTTEIHSKLSRFTTSAEKEAKLVYSNSSSGPTATLQKIPNTHL  
SSVTTSDLSPGPCHHSSLSQIPSAIPSMHPQPTILLNTVSASASPCLHPGAQNIPSPTGL  
PRCRSGSHTIGPFSSFQSAHIYSQKLSRPSSAKAGSCYLNKHHSGIAKTQKEGEDASLY  
SKRYNQSMVTAELQRLAEKQAARQYSPSSHINLLTQQVTNLNLATGII NRSSASAPPTLR  
PIISPSPGTWSTQSDPQAPENHSSSPGSRSLQTGGFAWEGEVENNVYSQATGVVPQHKYH  
PTAGSYQLQFALQQLQQKLSRQLLDQSRARHQAI FGSQTL PNSNLWTMNGAGCRISS  
ATASGQKPTTL PQKVVPPSSCASLVPKPPNHEQVLRRA TSQKASKGSSAEGQLNGLQS  
SLNPAAFVPITSSTDP AHTKI

>sp|A6PVC2|TLL8\_HUMAN Protein monoglycylase TLL8 OS=Homo sapiens GN=TLL8 PE=2 SV=4  
MEPERKGLSLASSDGDGREENKLKQGISQDLASSSRLDRYKIA RQLTEKAIKEKKIFSI  
YGHYPVRAALRRKGWVEKKFHF LPKVIPDVEDEGARVNDDTCAKVKENQEMALEKTDNI  
HDVMSRLVKNEMPYLLWTIKRDIIDYHSLTYDQMLNHYAKTASFTTKIGLCVNM RSLPWY  
VPANPDSFFPRCYSLCTESEQQEFLEDFRRTMASSILKWWVSHQSCSRSSRSKPRDQREE  
AGSSDLSSRQDAENAEAKLRGLPGQLVDIACKVCQAYLGQLEHEDIDTSADAVEDLTEAE  
WEDLTQQYYSLVHGDAFISNSRNYFSQCQALLNRITSVNPQTDIDGLRNIWIIKPA ACSR  
GRDIVCMDRVEEILELAAADHPLSRDNKWWVQKYIETPLLICDTKFDIRQWFLVTDWNPL  
TIWFYKESYLRFS TQRFSLDKLDSAIHL CNNAVQKYLKNDVGRSPLLPAHNMTSTRFQE  
YLQRQGRGAVWGSVIYPSMKKAI AHAMKVAQDHVEPRKNSFELYGADFVLGRDFRPW LIE  
INSSPTMHPSTPVT AQLCAQVQEDTIKVAVDRSCDIGNFELLWRQPVEPPPFSGSDLCV  
AGVSVRRARRQVLPVCNLKASASLLDAQPLKARGPSAMPDPAQGPPSPALQRDLGLKEEK  
GLPLALLAPLRGA AESGGAQPTRTKAAGKVELPACPCRHVDSQAPNTGVPVAQPAKSWD  
PNQLNAHPLEPVL RGLKTAEGALRPPPGKGEGTVCSRLPHHGHV AACQTTGTTWDGGP  
GVCFLRQLLASELPMGPGLPRDP RAPPCLVCRGLLPPAGPCKRCSFCAAVLQGASFVRL  
GGRSCSPRTP

>sp|Q9NNX1|TUFT1\_HUMAN Tuftelin OS=Homo sapiens GN=TUFT1 PE=1 SV=1  
MNGTRNWCTLVDVHPEDQAAGSVDILRLTLQGELTGDELEHIAQKAGRKYAMVSSH SAG  
HSLASELVESHDGHEEIIKVYLKGRSGDKMIEKNINQLKSEVQYIQEARNCLQKLREDI  
SSKLDRLNGDSLHRQEIQVVLEKPNGFSQSPTALYSSPPEVDTCINEDVESLRKTVQDLL  
AKLQEAQRHQHSDCVAFEVTL SRYQREAEQSNVALQREEDRVEQKEAEVGELQRRLLGME  
TEHQALLAKVREGEVALEELRSNNADCQAEREKAATLEKEVAGLREKIHHLDDMLKSQQR  
KVRQMIEQLQNSKAVIQSKDATIQELKEKIAYLEAENLEMHDRMEHLIEKQISHGNFSTQ  
ARAKTENPGSIRISKPPSPKMPVIRVET

>sp|075386|TULP3\_HUMAN Tubby-related protein 3 OS=Homo sapiens GN=TULP3 PE=1 SV=2  
MEASRCRLSPSGDSVFHEEMMKMRQAKLDYQRLLLEKRQRKKRLEPFMVQPNPEARLRRA  
KPRASDEQTPLVNCHTPHSNVI LHGIDGPAAVLKPDEVHAPSVSSSVVEEDAENTVDTAS  
KPGLQERLQKHDISES VNFDEETDGISQSACLERPNSASSQNSTDTGTSGSATAAQPADN  
LLGDIDDLED FVYSPAPQGVTVRCRIIRDKRGMDRGLFPTYMYLEKEENQKIFLLAARK  
RKKSKTANYLISIDPVDLSREGESYVGKLRSNLMGTKFTVYDRGICPMKGRGLVGAHTR  
QELAAISYETNVLGFKGPRKMSV IIPGMTLNHKQIPYQPQNNHDSLLSRWQNRTMENLVE  
LHNKAPVWNSDTQSYVLNFRGRVTQASVKNFQIVHKNDPDYIVMQFGRVADDVFTLDYNY  
PLCAVQAFGIGLSSFDSKLACE

>sp|Q9GZX9|TWSG1\_HUMAN Twisted gastrulation protein homolog 1 OS=Homo sapiens GN=TWSG1  
PE=1 SV=1

MKLHYVAVLTAILMFLTWLPESLSCNKALCASDVSKCLIQELCQCRPGEGNCSCCKECM  
LCLGALWDECCDCVGMCPNPNYSPTPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVS  
FPVAEELSHHENLVSFLETVNQPHHQNVSPSNNVHAPYSSDKEHMCTVVYFDDCMSIHQ  
CKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKCMNCMF

>sp|Q15672|TWST1\_HUMAN Twist-related protein 1 OS=Homo sapiens GN=TWIST1 PE=1 SV=1

MMQDVSSSPVSPADDSLSNSEEPPDRQQPPSGKRGGRKRRSSRRSAGGGAGPGGAAGGGV  
GGGDEPGSPAQGRGKKSAGCGGGGGAGGGGSSSGGGSPQSYEELQTRVMANVRERQR  
TQSLNEAFAALRKIIPTLPDKLSKIQLTLKLAARYIDFLYQVLQSDDELDSKMASCSYVAH  
ERLSYAFSVWRMEGAWSMSASH

>sp|Q9Y6I9|TX264\_HUMAN Testis-expressed sequence 264 protein OS=Homo sapiens GN=TEX264  
PE=1 SV=1

MSDLLLGLIGLTLTLLTLLAFAGYSGLLAGVEVSAGSPPIRNVTVAYKFHMGLYGET  
GRLFTESCSISPKLRSIAVYYDNPHMVPPDKCRCAVGSILSEGEESPELIDLYQKFGF  
KVFSFPAPSHVVTATFPYTTILSIWLATRRVHPALDTYIKERKLCAYPRLEIYQEDQIH  
MCPLARQGDFYVPEMKETEWKWRGLVEAIDTQVDGTGADTMSDTSVSLEVSPGSRETS  
ATLSPGASSRGWDDGTRSEHSYSESGASGSSFEELDLEGEGLGESRLDPGTEPLGTTK  
WLWEPTAPEKGKE

>sp|Q6PKC3|TXD11\_HUMAN Thioredoxin domain-containing protein 11 OS=Homo sapiens  
GN=TXNDC11 PE=1 SV=2

MSECGRGGGSSSEDAEDEGGGGGPAGSDCLSSSPTLATASSAGRLRRGLRGAFLMAR  
QRPELLCGAVALGCALLLALKFTCSRADVIIPAKPPVSFFSLRSPVLDLFQGGQDYAEY  
VRRDSEVVLLFFYAPWCGQSIARAIEQAASRLSDQVLFVAINCWWNQGKCRKQKHFFY  
FPVIYLYHRSFGPIEYKGPMSAVYIEKFVRRVMKPLLYIPSQSELDFLSNYEPGVLGYF  
EFSGSPQPPGYLTFFTSALHSLKALESTSSPRALVSFTGEWHLETKIYVLDYLGTVRFG  
VITNHLAKLVSLVHSGSVYLHRHFNSTLVFPREVLNYTAENICKWALENQETLFRWLRP  
HGGKSLLLNNELKKGPAFLFIPFNPLAESHPIDEITEVALEYNNCHGDQVVERLLQHL  
RRVDAPVLESALAVPAQLPDPPTITASPCNTVVLPQWHSFSRTHNVCELCVNQTS GGM  
KPSSVSVPPQCSFFEMAAALDSFYLKEQTFYHVASDSIECSNFLTSPSPFSYTTACCR  
TISRGVSGFIDSEQGVFEAPTVAFFSLEKKCEVDAPSSVPHIEENRYLFPEVDMTSTNFT  
GLSCRTNKTNLNIYLLDSNLFWLYAERLGAPSSTQVKEFAAIVDVKEESHYILDPKQAL  
MKLTLESFIQNFVSVLYSPLKRHLIGSGSAQFPSQHLITEVTTDTFWEVVLQKQDVLL  
LYAPWCGFCPSLNHIFIQIARLNLPMDTFTVARIDVSQNDLPWEFMVDRLPTVLF  
FFPCNRKDL SVKYPEDVPITLPNLLRFILHSDPASSPQNVANSPTKECLQSEAVLQ  
RGHISHLEREIQKLRAEISSLQRAQVQVESQLSSARRDEHRLRQQRALEEQHSL  
LHAHSEQLQALYEQKTRELQELARKLQELADASENLLTENTWLKILVATMERKLEGRD  
GAESLAAQREVHPKQPEPSATPQLPGSSPPPANVSATLVSERKENRTD

>sp|O95881|TXD12\_HUMAN Thioredoxin domain-containing protein 12 OS=Homo sapiens  
GN=TXNDC12 PE=1 SV=1

METRPRLGATCLLGFSFLLLVISSDGHNLGKGFGDHIHWRTLEDGKKEAAASGLPLMVI  
IHKSWCGACKALPKFAESTEISELSHNFVMVNLEDEEPPKDEDFSPDGGYIPRILFLDP  
SGKVHPEIINENGNPYKYFYVSAEQVVQGMKEAQLRTGDAFRKKHLEDEL

>sp|Q86XW9|TXND6\_HUMAN Thioredoxin domain-containing protein 6 OS=Homo sapiens GN=NME9  
PE=2 SV=1

MGRSKKEIALQVNISTQELWEEMLSKGLTVVDVYQGWCPCPKPVVSLFQKMRIEVLDDL  
LHFALAEADRLDVLKYRGKCEPTFLFYAGGELVAVVRGANAPLLQKTILDQLEAEKKVL  
AEGREKVIKDEALSDEDECVSHGKNNGEDEDMVSSERTCTLAIIKPDAVAHGKTDEIIM  
KIQEAGFEILTNEERTMTEAEVRLFYQHKAGEEAFEKLVHHMCSGPSHLLILTRTEGFED  
VVTWRTVMGPRDPNVARREQPESLRAQYGTMPFNAVHGSRDREDADRELALLFPSLKF  
SDKDTEAPQGGEAEATAGPTEALCFPEDVD

>sp|O14604|TYB4Y\_HUMAN Thymosin beta-4, Y-chromosomal OS=Homo sapiens GN=TMSB4Y PE=1 SV=3  
MSDKPGMAEIEKFDKSKLKKTTETQEKNPLSSKETIEQERQAGES

>sp|Q2T9J0|TYSN1\_HUMAN Peroxisomal leader peptide-processing protease OS=Homo sapiens  
GN=TYSN1 PE=1 SV=3

MRRQWGSAMRAAEQAGCMVSASRAGQPEAGPWSCSGVILSRSPGLVLCHGGIFVPFLRAG  
SEVLTAAGAVFLPGDSCRDDLRLHVQWAPTAAGPGGAERGRPLCTPQCASLEPGPPAP  
SRGRPLQPRLLPAELLLLLSCPAFWAHFARLFGDEAAEQWRFSSAARDDEVSEDEEADQLR  
ALGWFALLGVRLGQEEVEEERGPAMAVSPLGAVPKGAPLLVCGSPFGAFCPDIFLNTLSC  
GVLSNVAGPLLLTDARCLPGTEGGVFTARPAGALVALVAVPLCWKAGEWVGFTLLCAAA  
PLFRAARDALHRLPHSTAALAALLPPEVGVPGWGLPLRDSGPLWAAAALVECGTVWGSGV  
AVAPRLVVTCTRHVSPREARVLVRSTTPKSVAIWGRVVFATQETCPYDIAVVSLEEDLDD  
VPIPVPAEHFHEGEAVSVVGFVGFQSCGPSVTSGILSAVVQVNGTPVMLQTTCAVHSGS  
SGGPLFSNHSGNLLGIITSNTRDNTGATYPHLNFSIPITVLQPALQQYSQTQDLGGLRE  
LDRAAEPVRVVWRLQRPLAEAPRSKL

>sp|Q6NUM6|TYW1B\_HUMAN S-adenosyl-L-methionine-dependent tRNA 4-demethylwyosine synthase  
OS=Homo sapiens GN=TYW1B PE=2 SV=3

MDPSADTWDLSSPLISLWINRFYIYLGFVAVSISLWICVQIVIQGFATVLAEAVTSLDL  
PVAIINLKEYDPDDHLIEEVTSKNVCVFLVATYTDGLPTESAWEFCKWLEEASIDFRFGK  
TYLKGMRDAVFGLGNSAYASHFNKVGKNVDKWLWMLGVHRVMSRGECDVVKSKHGSIE  
ANFRAWKTKFISQLQALQKGERKKSCGGHCKKGKCESHQHGSEEREESQEQDELHHRDT  
KEEFPFESSSEEEFGGEDHQSLNSIVDVEDLGKIMDHVKKEKREKEQEEKSGLFRNMGR  
NEDGERRAMITPALREALTKQVDAPRERSLLQTHILWNESHRCMETTPSLACANKCVFCW  
WHNNPVGTEWLWKMDQPEMILKEAIENHQNMKQFKGVPGVKAERFEEGMTVKHCALSL  
VGEPIMYPEINRFLKLLHQCKISSFLVTNAQFPAEIRNLEPVTQLYVSVDASTKDSLKKI  
DRPLFKDFWQQFLDSLKALAVKQRTVYRLTLVKAWNDELQAYAQLVSLGNPDFIEVKG  
VTYCRESSASSLTMHVPWHEEVVQFVRELVDLIPEYEIACEHEHSNCLLIAHRKFKIGG  
EWWTWIDYNRFQELIQEYEDSGGSKTFSKDYMARTPHWALFGANERSFDPKDRHQKRN  
KSKAISGC

>sp|Q9NV66|TYW1\_HUMAN S-adenosyl-L-methionine-dependent tRNA 4-demethylwyosine synthase  
OS=Homo sapiens GN=TYW1 PE=2 SV=2

MDPSADTWDLFSPLISLWINRFYIYLGFVAVSISLWICVQIVIKTQGKNLQEKSVPKAAQD  
LMTNGYVSLQEKDIFVSGVKIFYGSQTGTAKGFATVLAEAVTSLDLPVAIINLKEYDPDD  
HLIEEVTSKNVCVFLVATYTDGLPTESAWEFCKWLEEASIDFRFGKTYLKMRYAVFGLG  
NSAYASHFNKVGKNVDKWLWMLGAHRVMSRGECDVVKSKHGSIEADFRAWKTKFISQL  
QALQKGERKKSCGGHCKKGKCESHQHGSEEREESQEQDELHHRDTEEEFPFESSSEEEF  
GGEDHQSLNSIVDVEDLGKIMDHVKKEKREKEQEEKSGLFRNMGRNEDGERRAMITPAL

REALTKQGYQLIGSHSGVKLCRWTKSMLRGRGGCYKHTFYGIESHRCMETTPSLACANKC  
VFCWRHHTNPVGTEWRWKMDQPEMILKEAIENHQNMIIKQFKGVPGVKAERFEEGMTVKHC  
ALSLVGEPIMYPEINRFLKLLHQCKISSFLVTNAQFPAEIRNLEPVTQLYVSVDASTKDS  
LKKIDRPLFKDFWQRFDSLKALAVKQQRVYRLTLVKAWNDELQAYAQLVSLGNPDFI  
EVKGVTYCGESSASSLTMAHVPWHEEVVQFVHELVDLIPYEIACEHEHSNCLLIAHRKF  
KIGGEWWTWIDYNRFQELIQEYEDSGGSKTFSADYMARTPHWALFGASERGFDPKDTRH  
QRKNKSKAISGC

>sp|Q6R6M4|U17L2\_HUMAN Ubiquitin carboxyl-terminal hydrolase 17 OS=Homo sapiens  
GN=USP17L2 PE=1 SV=2

MEDDSLVLGGGEWQFNHFSKLTSSRPDAFAEIQRSTLPEKSPLSSEARVDLCDDLAPVAR  
QLAPRKKLPLSSRPAAVGAGLQNMGNTCYENASLQCLTYTPPLANYMLSREHSQTCQRP  
KCCMLCTMQAHITWALHSPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPGH  
KQVDHHSKDTTLIHQIFGGCWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVKQALEQL  
VKPEELNGENAYHCGLCQLRAPASKTLTLHTSAKVLILVLKRFSDVTGNKLAKNVQYPEC  
LDMQPYMSQQNTGPLVYVLYAVLVHAGWSCHDGHYFSYVKAQEGQWYKMDDAKVTACSIT  
SVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPEL  
DERLVERATQESTLDHWKFPQEQNKTKPEFNVRKVEGTLPPNVLVIIHQSKYKCGMKNHHP  
EQQSLLNLSSTTRTDQESVNTGTLASLQGRTRRSKGKNKHSKRALLVCQ

>sp|Q01081|U2AF1\_HUMAN Splicing factor U2AF 35 kDa subunit OS=Homo sapiens GN=U2AF1 PE=1  
SV=3

MAEYLASIFGTEKDKVNCSEFYFKIGACRHGDRCSRLHNKPTFSQTIALLNIYRNPQNSSQ  
SADGLRCAVSDVEMQEHYDEFEEVFTEMEEKYGEVEEMNVCDNLGDHLVGNVYVKFRRE  
EDAELAVIDLNNRWFNGQPIHAELSPVTDFREACCRQYEMGECTRGGFCNFMHLKPIISRE  
LRRELYGRRRKKHRSRERSRSDRGRGGGGGGGGGGGRERDRRRSRDRERSGRF

>sp|P26368|U2AF2\_HUMAN Splicing factor U2AF 65 kDa subunit OS=Homo sapiens GN=U2AF2 PE=1  
SV=4

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSDRKRSSSRDRRRNRDQRSASDRRRR  
RSKPLTRGAKEEHGGLIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATA  
LLPTMTDGLAVTPTVPVVGSMQTRQARRLYVGNIPFGITEAMMDFNAQMRLGGLTQ  
APGNPVLAVQINQDNFAFLEFRSVDETTQAMAFDGIIFQGQSLKIRRPDHYQPLPGMSE  
NPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDQVKELLTSFGPLKAFNLVKDSATGLSK  
GYAFCEYVDINVTQAIAGLNGMLGDKLLVQRASVGAKNATLVSPSTINQTPVTLQV  
PGLMSSQVQMGGHPTEVLCLNMVLPSELLDDEEYEEIVEDVRDECSKYGLVKSIEIPRP  
VDGVEVPGCGKIFVEFTSVFDCQKAMQGLTGRKFANRVVVTKYCDPDSYHRRDFW

>sp|Q15696|U2AFM\_HUMAN U2 small nuclear ribonucleoprotein auxiliary factor 35 kDa subunit-  
related protein 2 OS=Homo sapiens GN=ZRSR2 PE=1 SV=2

MAAPEKMTFPEKPSHKYRAALKKEKRKKRRQELARLRDSGLSQKEEEEDTFIEEQLEE  
EKLLERERQRLHEEWLLREKQAQEEFRIKKEKEEAAKKRQEEQERKLKEQWEEQQRKERE  
EEEQKRQEKEKEEALQKMLDQAELENLGGTTWQNPPEPPVDFRVMKDRANCPFYSKTGA  
CRFGDRCSRKHNFTSSPTLLIKSMFTTFGMEQCRRDDYDPDASLEYSEEETQQFLDFY  
EDVLPPEFKNVGKVIQFKVSCNLEPHLRGNVYVYQSEEECQAALSLFNGRWYAGRQLQCE  
FCPVTWKMAICGLFEIQQCPRGKHCNLFHVFRNPNEFWANRDIYLSPDRTGSSFGKN  
SERRERMGHDDYYSRLRGRNPNPDHSYKRNGESERKSSRHRGKSKHKRTSKSRERHNS  
RSRGRNRDRSRDRSRGRGSRSRSRSSRSRRSRSSRSQSSSRSRSGRRRSRGRNRDRTVQSPK



SK

>sp|Q86TS7|U730\_HUMAN Putative UPF0730 protein encoded by LINC00643 OS=Homo sapiens  
GN=LINC00643 PE=5 SV=1

MVQECCSQSLYYEELHSYHIVPYASENAIYEMGYTSSHLEQNSQLLIYKMN

>sp|Q9BZF9|UACA\_HUMAN Uveal autoantigen with coiled-coil domains and ankyrin repeats  
OS=Homo sapiens GN=UACA PE=1 SV=2

MKSLKSRLRRQDVPGPASSGAAAAHAADWNKYDDRLMKAERGDVEKVTSILAKKGVN  
PGKLDVEGRSVFHVVTSGKNLECLNAILIHGVDITTSDTAGRNALHLAAKYGHALCLQKL  
LQYNCPTEHADLQGR TALHDAAMADCPSSIQLLCDHGASVNAKDVDGRTPLVLATQMSRP  
TICQLLIDRGADVNSRDQKQRTALMLGCEYGCRDAVEVLKNGADISLLDALGHDSSYYA  
RIGDNDLILTLTKTASENTNGRELWKKGPSLQQRNLTHMQDEVNVKSHQREHQNIQDLE  
IENEDLKERLRKIQQEQRILLDKVNGLQLQLNEEVMVADDLESEREKLSLLAAKEKQHE  
ESLRTIEALKNRKFYFESDHLGSGSHFSNRKEDMLLKQGQMYMADSQCTSPGIPAHMQSR  
SMLRPLELSLPSQTSYSENEILKKELEAMRTFCESAKQDRLKLQNELAHKVAECKALALE  
CERVKEDSDEQIKQLEDALKDVQKRMYESGKVKQMTHFLALKEHLTSEAASGNHRLTE  
ELKDQLKDLKVYEGASAEVGKLRNQIKQNEMIVEEFKRDEGKLIENKRLQKELSMCEM  
EREKGRKRVTEMEGQAKELSAKLALSIPEAKFENMKSSLSNEVNEKAKKLVEMEREHEKS  
LSEIRQLKRELENVKAKLAQHVKPEEHEQVKSRLQKSGELGKKITELTLKNQTLQKEIE  
KVYLDNKLKEQAHNLTIEMKNHYVPLKVS E DMKKSHDAI IDDLNRKLLDVTQKYTEKKL  
EMEKLLLENDLSKDVSRLETVPVPEKHEKEIIALKSNIVELKKQSELKKKCGEDQEK  
IHALTSENTNLKKMSNQYVPVKTHEEVKMTLNDTLAKTNRELLDVKKKFEDINQEFVKI  
KDKNEILKRNLENTQNQIKA EYISLAEHEAKMSSLSQSMRKVQDSNAEILANYRKGQEEI  
VTLHAEIKAQKKELDTIQECIKVKYAPIVSFEECERKFKATEKELKDQLSEQTQKYSVSE  
EEVKKNKQENDKLKKEIFTLQKDLRDKTVLIEKSHEMERALS RKTDELNKQLKDLSQKYT  
EVKNVKEKLVEENAKQTSEILAVQNLLQKQHVPLEQVEALKKSLNGTIENLKEELKSMQR  
CYEKEQQTVTKLHLQLENQKNSSVPLAEHLQIKEAFEKEVGIIKASLREKEEESQNKMEE  
VSKLQSEVQNTKQALKKLETREVVDLSKYKATKSDLETQISSLNEKLANLNRKYEEVCEE  
VLHAKKKEISAKDEKELLHFSIEQEIKDQKERCDSLTTITELQRRIQESAKQIEAKDNK  
ITELLNDVERLKQALNGLSQLTYTSGNPTKRQSQLIDTLQHQVKSLEQQADADRQH QEV  
IAIYRTHLLSAAQGHMDEDVQEALLQIIQMRQGLVC

>sp|P51668|UB2D1\_HUMAN Ubiquitin-conjugating enzyme E2 D1 OS=Homo sapiens GN=UBE2D1 PE=1  
SV=1

MALKRIQKELSDLQRDPPAHCSAGPVGDDLFWHQATIMGPPDSAYQGGVFFLTVHFPTDY  
PFKPPKIAFTTKIYHPNINSNGSICLDILRSQWSPALTVSKVLLSICSLLCDPNPDDPLV  
PDIAQIYKSDKEKYNRHAREWTQKYAM

>sp|P61077|UB2D3\_HUMAN Ubiquitin-conjugating enzyme E2 D3 OS=Homo sapiens GN=UBE2D3 PE=1  
SV=1

MALKRINKELSDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDY  
PFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLV  
PEIARIYKTDRDKYNRISREWTQKYAM

>sp|P60604|UB2G2\_HUMAN Ubiquitin-conjugating enzyme E2 G2 OS=Homo sapiens GN=UBE2G2 PE=1  
SV=1

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEW EALIMGPEDTCFEFGVFPAILSF  
PLDYPLSPPKMRFTCEMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKIL

LSVVSMLAEPNDESGANVDASKMWRDDREQFYKIAKQIVQKSLGL

>sp|Q8N2K1|UB2J2\_HUMAN Ubiquitin-conjugating enzyme E2 J2 OS=Homo sapiens GN=UBE2J2 PE=1 SV=3

MSSTSSKRAPTTATQRLKQDYLRKDKDPVPYICAEPLPSNILEWHYVVRGPEMTPYEGGY  
YHGKLIFPREFPFKPPSIYMITPNGRFKCNTRLCLSITDFHPDTWNPASVSTILTGLLS  
FMVEKGPTLGSietsDFTKRQLAVQSLAFNLKDKVFCELFPEVVVEIKQKQKAQDELSSR  
PQTLPLPDVVPDGETHLVQNGIQLLNHAPGAVPNLAGLQQANRHHGLLGALANLHVIV  
GFAAFAYTVKYVLRSIAQE

>sp|Q712K3|UB2R2\_HUMAN Ubiquitin-conjugating enzyme E2 R2 OS=Homo sapiens GN=UBE2R2 PE=1 SV=1

MAQQQMTSSQKALMELKSLQEEPVEGFRITLVDES DLYNWEVAIFGPPNTLYEGGYFKA  
HIKFPIDYPSPPTFRFLTkmwHPNIYENG DVCISILHPPVDDPQSGELPSERWNPTQNV  
RTILLSVISLLNEPNTFSPANVDASVMFRKWRDSKGKDKEYAEIIRKQVSATKAEAEKDG  
VKVPTTLAEYCIKTKVPSNDNSSDLLYDDLYDDDDIDDEDEEEEDADCYDDDDSGNEES

>sp|P61086|UBE2K\_HUMAN Ubiquitin-conjugating enzyme E2 K OS=Homo sapiens GN=UBE2K PE=1 SV=3

MANIAVQRIKREFKEVLKSEETSKNQIKVDLV DENFTELRGEIAGPPDTPYEGGRYQLEI  
KIPETYPFNPPKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAA  
EPDDPQDAVVANQYKQNP EMFKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVI  
VALSSKSWDVETATELLSN

>sp|Q9C0C9|UBE20\_HUMAN (E3-independent) E2 ubiquitin-conjugating enzyme OS=Homo sapiens GN=UBE20 PE=1 SV=3

MADPAAPTPAAPAPAPAPAEVAPAPAAAPVPAPAPASDSASGPSSDSGPEAGSQRL  
FSHDLVSGRYRGSVHFGLVRLIHGEDSDSEGE EGRGSSGCSEAGGAGHEEGRASPLRRG  
YVRVQWYPEGVKQHVKETKLKLED RSVVPRDVVRHMRSTDSQCGTVIDVNIDCAVKLIGT  
NCIIYPVNSKDLQHIWPFMYGDYIAYDCWLKGVYDLKNQIILKLSNGARCSMNTE DGAKL  
YDVCPHVSDSGLFFDDSYGFYPGQVLIGPAKIFSSVQWLSGVKPV LSTKSKFRVVVEEVQ  
VVELKVTWITKSCFCGGTDSVSPPPSVITQENLGRVKRLGCFDHAQRQLGERCLYVFPK  
VEPAKIAWECPEKNCAQGE GSKMAKKVKRLLKKQVVRIMSCSPDTQCSRDHSMEDPKKGE  
SKTKSEAESASPEETPDGSASP VEMQDEGAEEPHEAGEQLPPFLLKEGRDRLHSAEQDA  
DDEAADTDDTSSVTSSASSTSSQSGSGTSRKKSIPLSIKNLKRKHKRKNKITRDFKP  
GDRVAVEVVTTMTSADVMWQDGSVECNIRSNDLFPVHHLDNNEFCPGDFVVDKRVQSCPD  
PAVYGVVQSGDHIGRTCMVKWFKLRPSGDDVELIGEEEDVSVYDIADHPDFRFRTTDIVI  
RIGNTEDGAPHKEDEPSVGQVARVDVSSKVEVWADNSKTIILPQHLYNIESEIEESDYD  
SVEGSTSGASSDEWEDSDSWETDNGLVEDEHPKIEEPIPPLEQPVAPEDKGVVISEEA  
ATAAVQGAVAMAAPMAGLMEKAGKDGPPKSFRELKEAIKILES LKNMTVEQLLTGSPTSP  
TVEPEKPTREKKFLDDIKKLQENLKKTLDNVAIVEEEKMEAVPDVERKEDKPEGQSPVKA  
EWPSETPVLCQQCGGKPGVTF TSAKEVFSVLEFAPS NHSFKKIEFQPPEAKKFFSTVRK  
EMALLATSLPEGIMVKT FEDRMDLFSALIKGPTRTPYEDGLYLFDIQLPNIYPAVPPHFC  
YLSQCSGR LNP NYDNGKVCVSL LGTWIGKGTERTWTSKSSLLQVLISIQGLILVNEPYYN  
EAGFDSDRGLQEGYENSRCYNEMALIRVVQSM TQLVRRPPEVFEQEIRQHFSTGGWRLVN  
RIESWLETHALLEKAQALPNGVPKASSSPEPPAVAELSDSGQQEPEDGGPAPGEASQGS  
SEGGAQGLASASRDHTDQTSETAPDASVPPSVKPKRRKSYRSFLPEKSGYPDIGFPLFP  
LSKGFIKSIRGVL TQFRAALLEAGMPECTEDK

>sp|095155|UBE4B\_HUMAN Ubiquitin conjugation factor E4 B OS=Homo sapiens GN=UBE4B PE=1 SV=1

MEELSADEIRRRRLARLAGGQTSQPTTPLTSPQRENPPGPPIAASAPGPSQSLGLNVHNM  
TPATSPIGASGVAHRSQSSEGVSSSSPSNSLETQSQSLSRQSMIDGVSCSKSMSQV  
DVDSGIENMEVDENDRREKRSLSDKEPSSGPEVSEEQALQLVCKIFRVSWKDRDRDVI  
SSLSAQFKQNPKEVFSDFKDLIGQILMEVLMSTQTRDENPFASLTATSQPIAAAARSPD  
RNLLNTGSGNPGTSPMFCVASFGASSLSSLYESSPAPTSPFWSSVPVMGPSLASPSRAA  
SQLAVPSTPLSPHSAASGTAAGSQPSSPRYPYTVTHPWASSGVSISSSPSPALASSP  
QAVPASSSRQRPSSGTGPPLPASPATSRRPSSLRISPSLGASGGASNWDYSYDHTIET  
CKETDMLNYLIECFDRVGIEEKKAPKMCSPAVSQLLSNIRSCISHTALVLQGSQTQPR  
SLQQPSFLVPYMLCRNLPYGFIQELVRTTHQDEEVFKQIFIPILQGLALAAKECSLDSY  
FKYPLMALGELCETKFGKTHPVCNLVASLRLWLPKSLSPGCGRELQRLSYLGAFFSFSVF  
AEDDVKVVEKYFSGPAITLENTRVVSQSLQHYLELGRQELFKILHSILLNGETREAALSY  
MAAVNANMKKAQMQTDDRLVSTDGFMLNFWLQQLSTKIKLETVDPTYIFHPRCRITL  
PNDETRVNATMEDVNDWLTLYGQPPFSEPKFPTCEFFLTLHAHLSILPSCRRYIRRL  
RAIRELNRTVEDLKNNESQWKDSPLATRHREMLKRCKTQLKKLVRCKACADAGLLDESFL  
RRCLNFYGLLIQLLLRLDPAYPDITLPLNSDPVKVFAALPEFYVEDVAEFLFFIVQYSP  
QALYEPCTQDIVMFLVVMCLNQNYIRNPYLVAKLVEVMFMTNPAVQPRTQKFFEMIENHP  
LSTKLLVPSLMKFYTDVEHTGATSEFYDKFTIRYHISTIFKSLWQNIHHGTFMEEFN  
SGKQFVRYINMLINDTFLDESLESLKRIHEVQEEMKNKEQWDQLPRDQQARQSQLAQDE  
RVRSRYALATETVDMFHILTKVQKPFRLPELGPRLAAMLNFNLQQLCGPKCRDLKVEN  
PEKYGFEPKLLDQLTDIYLQDCARFAKAIADDQRSYSKELFEEVISKMRKAGIKSTIA  
IEKFKLLAEKVVEIVAKNARAEIDYSDAPDEFDRDPLMDTLMTDPVRLPSGTIMDRSILR  
HLLNSPTDPFNRQTLTESMLEPVPELKEQIQAWMREKQNSDH

>sp|Q96S82|UBL7\_HUMAN Ubiquitin-like protein 7 OS=Homo sapiens GN=UBL7 PE=1 SV=2

MSLSDWHLAVKLADQPLTPKSIILRLPETELGEYSLGGYSISFLKQLIAGKLQESVPDPEL  
IDLIYCGRKLKDDQTLDFYGIQPGSTVHVLKSWPEPDQKPEPVDKVAAMREFRVLHTAL  
HSSSYREAVFKMLSNKESLDQIIIVATPGLSSDPIALGVLQDKDLFSVFADPNMLDTLVP  
AHPALVNAIVLVHVSAGSAPMPGTDSSSRMPSSSYRDMPGGFLFEGLSDDDDFHPNT  
RSTPSSSTPSSRPASLGYSAGAGRPITQSELATALALASTPESSSHTPTPGTQGHSSGT  
SPMSSGVQSGTPIITNDFSQALQHALQASGQPSLQSQWQPQLQQLRDMGIQDDELSLRAL  
QATGGDIQAALELIFAGGAP

>sp|Q9BXU7|UBP26\_HUMAN Ubiquitin carboxyl-terminal hydrolase 26 OS=Homo sapiens GN=USP26 PE=1 SV=1

MAALFLRGFVQIGNCKTGISKSKEAFIEAVERKKKDRLVLYFKSGKYSTFRLSDNIQNVV  
LKSYRGNQNLHLTLQNNGLFIEGLSSTDAEQLKIFLDRVHQNEVQPPVRPGKGSVFS  
STTQKEINKTSFHKVDEKSSSKSFEIAKSGGTGVLQRMPLLTSKLTLTCGELSENQHKR  
KRMLSSSEMNEEFLKENNSVEYKSKADCSRCSYNREKQLKLKELEENKKLECESSCI  
MNATGNPYLDDIGLLQALTEKMVLVFLQGGYSDGYTKWDKLKLFELFPEKICHGLPNL  
GNTCYMNAVLQSLLSPSFADLLNQSPFGKIPLNALTMCLARLLFFKDTYNIEIKEML  
LLNLKKAISAAAEIFHGNAQNDAHEFLAHCLDQLKDNMEKLNTIWKPKSEFGEDNFPKQV  
FADDPDTSGFSCPVIITFELELLHSIACKACGQVILKTELNNYLSINLPQRIKAHPSSIQ  
STFDLFFGAEELEYKCAKCEHKTSVGVSFSRILPRILIVHLKRYSLNEFCALKKNDQEV  
ISKYLKVSSHCHNEGRPPLPLEEDGEITDFQLLKVIRKMTSGNISVSWPATKESKDILAP

HIGSDKESEQKKGQTVFKGASRRQQKYLGKNSKPNELESVYSGDRAFIEKEPLAHLMTY  
LEDTSLCQFHKAGGKPASSPGTPLSKVDFQTPENPKRKKYVKTSKFVAFDRIINPTKDL  
YEDKNIRIPERFQKVSEQTQQCDGMIRICEQAPQQALPQSFPKPGTQGHTKNLLRP TKLNL  
QKSNRNSLLALGSNKNPRNKDILDKIKSAKETKRNDKGDHTYRLISVVSHLGTKLTKSG  
HYICDAYDFEKQIWFTYDDMRVLGIQEAQMVEDRRCTGYIFFYMHNEIFEEMLKREENAQ  
LNSKEVEETLQKE

>sp|Q8NFA0|UBP32\_HUMAN Ubiquitin carboxyl-terminal hydrolase 32 OS=Homo sapiens GN=USP32  
PE=1 SV=1

MGAKESRIGFLSYEEALRRVTDVELKRLKDAFKRTCGLSYMGQHCFIREVLGDGVPPKV  
AEVIYCSFGGTSKGLHFNNLIVGLVLLTRGKDEEKAKYIFSLFSSESGNYVIREEMERML  
HVVDGKVPDTRLKCFSEGEKVNIEKFRNWLFLNKDAFTFSRWLLSGGVYVTLTDDSDTPT  
FYQTLAGVTHLEESDIIDLEKRYWLLKAQSRTGRFDLETFGPLVSPPIRPSLSEGLFNAF  
DENRDNHIDFKEISCGLSACCRGPLAERQKFCFKVFDVDRDGVLSRVELRDMVVALLEVW  
KDNRTDDIPELHMDLSDIVEGILNAHDTTKMGHLTLEDYQIWSVKNVLANEFLNLLFQVC  
HIVLGLRPATPEEGQIIRGWLERESRYGLQAGHNWFIISMQWWQQWKEYVKYDANPVVI  
EPSSVLNGGKYSFGTAAHPMEQVEDRIGSSLSYVNTTEEFSDNISTASEASETAGSGFL  
YSATPGADVCFARQHNTSDNNQCLLGANGNILLHLNPQKPGAIDNQPLVTQEPVKATSL  
TLEGGRLKRTPLIHGRDYEMVPEPVWRALYHWYGANLALPRVIKNSKTDIPELELFP  
YLLFLRQQPATRTQQSNIWVMGNVPSNAPLKRVLAYTGCFSRMQTIKEIHEYLSQRLR  
IKEEDMRLWLYNSENYLTLDDDEHKLEYLKIQDEQHLVIEVRNKDMSWPEEMSFIANSS  
KIDRHKVPTEKGATGLSNLNTCFMNSSIQCVSNTQPLTQYFISGRHLYELNRTNPIGMK  
GHMAKCYGDLVQELWSGTQKNVAPLKLRTIAKYAPRFNGFQQQDSQELLAFLLDGLHED  
LNRVHEKPYVELKDSGRPDWEVAAEAWDNHLRRNRSIVVDLFGQLRSQVKCKTCGHIS  
VRFPDFNFLSLPLPMSYMHLEITVIKLDGTTVPVRYGLRLNMDEKYTGLKKQLSDLCGLN  
SEQILLAEVHGSNIKFNPDNQKVRLSVSGFLCAFEIPVPVSPISASSPTQTDFFSSSPST  
NEMFTLTNGDLPRPIFIPNGMPNTVPCGTEKNFTNGMVNGHMPSLPDSPTGYIIAVH  
RKMMRTELYFLSSQKNRPSLFGMPLIVPCTVHTRKKDLYDAVWIVSRLASPLPPQEASN  
HAQDCDDSMGYQYPFTLRVVQKDGNSCAWCPWYRFCRGCKIDCGEDRAFIGNAYIAVDWD  
PTALHLRYQTSQERVVDEHESVEQSRRAQAEPINLDSCLRAFTSEEELGENEMYYSKCK  
THCLATKKLDLWRLPPILIHLKRFQFVNGRWIKSQKIVKFPRESFDPSAFLVPRDPALC  
QHKPLTPQGDELSEPRILAREVKKVDAQSSAGEEDVLLSKSPSSLSANIISSPKGSPSSS  
RKSGTSCPSSKNSSPSSPRTLGRSGRLRPQIGSKNLSSSKENLDASKENGAGQICE  
LADALSRGHVLGGSQPELVTPQDHEVALANGFLYEHEACNGYSNGQLGNHSEEDSTDDQ  
REDTRIKPIYNLYAISCHSGILGGGHYVTYAKNPCKWYCYNDSSCKELHPDEIDTDSAY  
ILFYEQQGIDYAQFLPKTDGKKMADTSSMDEDFESDYKKYCVLQ

>sp|Q8TEY7|UBP33\_HUMAN Ubiquitin carboxyl-terminal hydrolase 33 OS=Homo sapiens GN=USP33  
PE=1 SV=2

MTGSNSHITILTLKVLPHFESLKGQEKIPNKMSAFRNHCPHLDSVGEITKEDLIQKSLGT  
CQDCKVQGNLWACLENRCSYVGCESQVDHSTIHSQETKHYLTVNLTLRVWCYACSKE  
VFLDRKLGTQPSLPHVRQPHQIQENSVDQFKIPSNTTLKTPLVAVFDDLDIEADEEDEL  
ARGLTGLKNIGNTCYMNAALQALSNCPLTQFFLDCGGLARTDKKPAICKSYLKLMTLW  
HKSRPGSVVPTTLFQGIKTVNPTFRGYSQQDAQEFLRCLMDLLHEELKEQVMEVEEDPQT  
ITTEETMEEDKSQSDVDFQSCESCNSNDRAENENGSRCFSEDNNETTMLIQDDENNSEMS  
KDWQKEKMCNKINKVNSEGEFDKDRDSISETVDLNNQETVKVQIHSRASEYITDVHSNDL

STPQILPSNEGVNPRLSASPPKSGNLWGLAPPHKKAQSASPKRKKQHKKYRSVISDIFD  
GTIISSVQCLTCDRVSVTLETQDLSPGKEDLAKLHSSSHPTSIVKAGSCGEAYAPQ  
GWIAFFMEYVVRVSVVSWFVWGPVVTLQDCLAFFARDELKGDNMYSCCKKLNGV  
KFCKVQNFPEILCIHLKRFRHELMFSTKISTHVSFPLEGLDLQPFLAKDSPAQIVTYDLL  
SVICHGHTASSGHYIAYCRNNLNLWYEFDDQSVTEVSESTVQNAEAYVLFYRKSSEEAQ  
KERRRISNLLNIMEPSLLQFYISRQWLNKFKTFAEPGPISNNDFLCIHGGVPPRKAGYIE  
DLVLMPLQNIWDNLYSRYGGGPAVNHLIYICHTCQIEAEKIEKRRKTELEIFIRLNRAFQK  
EDSPATFYCISMQWFREWESFVKGDGDPGPIDNTKIAVTKCGNVMRLRQGADSGQISEE  
TWNFLQSIYGGGPEVILRPPVVHVDPDILQAEKIEVETRSL

>sp|Q9NVE5|UBP40\_HUMAN Ubiquitin carboxyl-terminal hydrolase 40 OS=Homo sapiens GN=USP40  
PE=1 SV=3

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FTPEFREALFSLGPEELGLFEDKDKPDAKVRIPLQLQRLFAQLLLDQEAASADLTDS  
FGWTSNEEMRQHDVQELNRIIFSALETSLVGTSGHDLIYRLYHGTIVNQIVCKEKNVSE  
RQEDFLDLTVAVKNVSGLEDALWNMYVEEVFDCDNLHYCGTCDRLVKAASAKLRKLPP  
FLTVSLLRFNDFVKCERYKETSCYTFPLRINLKPFCEQSELDDLEYIYDLFSVIHKG  
CYGGHYHVYIKDVDHLGNWQFQEEKSKPDVNLKDLQSEEDHPLMILKAILLEENNLIP  
VDQLGQKLLKIGISWNKKYRKQHGFLRKLQLHSQIFLLSDESTVRLKNSSLQAESD  
FQRNDQQIFKMLPPESPGLNNSISCPHWFDINDSKVQPIREKDIEQQFQGESAYMLFYR  
KSQLQRPEARANPRYGVPCCHLLNEMDAANIELQTKRAECDSANNTFELHLHLGPQYHFF  
NGALHPVVSQTESVWDLTFDKRKTGLDRQSIFQLLEFWEGDMVLSVAKLVAGLHIYQS  
LGGDELTLCETEADGEDIFVWNGVEVGGVHIQTGIDCEPLLLNVLHLDTSSDGEKCCQV  
IESPHVFANAEVGTVLTAIPAGVIFINSAGCPGGEGWTAIPKEDMRKTFREQGLRNG  
SSILIQDSDHNSLLTKEEKWVTSMNEIDWLHVKNLCQLESEEKQVKISATVNTMVFDIR  
IKAIKELKLMKELADNSCLRPIDRNGKLLCPVPDSYTLKEAELKMGSSGLCLGKAPSSS  
QLFLFFAMGSDVQPGTEMEIVVEETISVRDCLKMLKKSGLQGDWHLRKMDCYEAGEP  
LCEEDATLKELLICSGDTLLLIEGQLPPLGFLKVPWWYQLQGSGHWESHQDQTNCTSS  
WGRVWRATSSQGASGNEPAQVSLLYLGDIEISEDATLAELKSQAMTLPPFLEFGVPSPAH  
LRAWTVRKRPRGRLRDRQPLREYKLGRRIEICLEPLQGENLGPQDVLLRTQVRIPGE  
RTYAPALDLVWNAAGGTAGSLRQRVADFYRLPVEKIEIAKYFPEKFEWLPISWNQQIT  
KRKKKKKQDYLQGAPYYLKDGDITGVKNLLIDDDDDFSTIRDDTGKEKQKQALGRRKSQ  
EALHEQSSYILSSAETPARPRAPETSLSIHVGSFR

>sp|Q9Y5K5|UHL5\_HUMAN Ubiquitin carboxyl-terminal hydrolase isozyme L5 OS=Homo sapiens  
GN=UHL5 PE=1 SV=3

MTGNAGEWCLMESDPGVFTELIKGFGCRGAQVEEISWLEPENFEKLPVHGLIFLFWQP  
GEEPAGSVVQDSRLDTIFFAKQVINNACATQAIVSVLLNCTHQDVHLGETLSEFKEFSQS  
FDAAMKGLALSNSDVIRQVHNSFARQQMFEDTKTSAKEEDAFHFVSYPVNGRLYELDG  
LREGPIDLGACNQDDWISAVRPVIEKRIQKYSEGEIRFNLMAIVSDRKMIEQKIAELQR  
QLAEEEPMDTDQGNMLSAIQSEVAKNQMLIEEEVQKLKRYKIEINIRKHNLYLPFIMELL  
KTLAEHQQLIPLVEKAKEKQNAKKAQETK

>sp|P55851|UCP2\_HUMAN Mitochondrial uncoupling protein 2 OS=Homo sapiens GN=UCP2 PE=1  
SV=1

MVGFKATDVPPTATVKFLGAGTAACIADLITFPLDTAKVRLQIQGESQGPVRATASQYR  
GVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEHASIGSRL

LAGSTTGALAVAVAQPTDVVKVRFQAQARAGGGRRYQSTVNAYKTIAREEGFRGLWKGTS  
PNVARNAIVNCAELVTDLIKDALLKANLMTDDLPCFHTSAFGAGFCTTVIASPVDVVKT  
RYMNSALGQYSSAGHCALTMLQKEGPRAFYKGFMPFSLRLGSWNVVMFVTEQLKRALMA  
ACTSREAPF

>sp|POC7P4|UCRIL\_HUMAN Putative cytochrome b-c1 complex subunit Rieske-like protein 1  
OS=Homo sapiens GN=UQCRFS1P1 PE=5 SV=1

MQQIYTVKEIRSVAARSGPFAPVLSATSRGVAGALRPLVQATVPATPEQPVLDLKRPFLS  
RESLSGQAVRRPLVASVGLNPASVCYSHTDIKVPDFSEYRRLEVLDSTKSSRESTEARK  
GFSYLVGTGTTVGVAAYAANAQTQFVSSMSASADVLALAKIEIKLSDIPEGKNMAFKWRG  
KPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILIGVCTHLGCVPIANAGDF  
GGYYCPCHGSHYDASGRIRLGPATLNLEVPTYEFTSDDMVIVG

>sp|P35504|UD15\_HUMAN UDP-glucuronosyltransferase 1-5 OS=Homo sapiens GN=UGT1A5 PE=2 SV=1

MATGLQVPLPQLATGLLLLLSVQPWAESGKVLVVPTDGSHWLSMREALRDLHARGHQVVV  
LTLEVNMYIKEENFFTLTTYAISWTQDEFDRLLLGHTQSFFETEHLMLKFSRRMAIMNNM  
SLIIHRSCVELLHNEALIRHLHATSFVVL TDPFHLCAAVLAKYLSIPAVFFLRNIPCDL  
DFKGTQCPNPSSYIPRLTTNSDHMTFLQRVKNMLYPLALSYLCHAVSAPYASLASELFQ  
REVSVDLVSHASVWLFRGDFVMDYPRPIMPNMVFIGGINCANGKPLSQEFEAYINASGE  
HGIVVFSLSGMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLNNTILVKWLPQND  
LLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTNLVLEMT  
SEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAH  
DLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

>sp|Q6NUS8|UD3A1\_HUMAN UDP-glucuronosyltransferase 3A1 OS=Homo sapiens GN=UGT3A1 PE=2  
SV=1

MVGQRVLLLVAFLLSGVLLSEAAKILTISTLGGSHYLLLDVRSQILQEHHNVTMLHQSG  
KFLIPDIKEEEKSYQVIRWFSPEDHQKRIKKHFDSEYIETALDGRKESEALVKLMEIFGTQ  
CSYLLSRKDIMDSLKNENYDLVFVEAFDFCSFLIAEKLVKPFVAILPTTFGSLDFGLPSP  
LSYVPVFPSSLTDHMDFWGRVKNFLMFFSFSRSQWDMQSTFDNTIKEHFPEGSRPVLSHL  
LLKAELWFWNSDFAFDARPLLNTVYIGGLEKPIKPPVQDLDNFIANFGDAGFVLVAF  
GSMLNTHQSQEVLLKMHNAFAHLPGQVIWTCQSSHWPDRVHLATNVKIVDWLPQSDLLAH  
PSIRLFTVTHGGQNSVMEAIRHGVPVGLPVNGDQHGNMVRVVAKNYGVSIIRLNQVTADTL  
TLTMKQVIEDKRYKSAVVAASVILHSQPLSPAQRLVGWIDHILQTGGATHLKPYAFQQPW  
HEQYLIDVFVFLGLTLGTMWLCGKLLGVVARWLRGARKVKKT

>sp|O75310|UDB11\_HUMAN UDP-glucuronosyltransferase 2B11 OS=Homo sapiens GN=UGT2B11 PE=2  
SV=1

MTLKWTSVLLL IHLSCYFSSGCGKVLVWAAEYSHWMNMKTILKELVQRGHEVTVLASSA  
SILFDPNDASTLKFEVYPTSLTKTEFENIIMQQVKRWSDIRKDSFWLYFSQEQEILWELY  
DIFRNFCCKDVSNKKVMKKLQESRFDIVFADAVPCGELLAALLNIRFVYSLRFTPGYTI  
ERHSGGLIFPPSYIPVMSKLSQMTFMERVKNMIYVLYDFWFWQMSDMKKWDQFYSEVL  
GRPTTLFETMGKADIWLMRNSWFSQFPHFPLPNVDFVGGFHCKPAKPLPKEMEETFVQSSG  
ENGVVVFSLSGSVISNMTAERANVIATALAKIPQKVLWRFDGKPKDALGLNTRLYKWIPQN  
DLLGHPKTRAFITHGGANGIYEAIYHGIPMVGIPLFFDQPDNIAHMKAKGAAVRLDFNTM  
SSTDLLNALKTVINDPLYKENIMKLSRIQHDQPVKPLDRAVFWIEFVMPHKGAKHLRVAA  
HDLTWQYHSLDVIGFLLACVATVIFIITKFLCFWKFARKGKKGKRD

>sp|O60701|UGDH\_HUMAN UDP-glucose 6-dehydrogenase OS=Homo sapiens GN=UGDH PE=1 SV=1

MFEIKKICCGAGYVGGPTCSVIAHMCPEIRVTVVDVNESRINAWNSPTLPIYEPGLKEV  
VESCGRGNLFFSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYEACARRIVQNS  
NGYKIVTEKSTVPVRAAESIRRFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLI  
GGDETPEGQRAVQALCAVYEHVWPREKILTTNTWSSELSKLAANAFLAQRISSINSISAL  
CEATGADVVEEVATAIGMDQRIGNKFLKASVGFSGCFQKDVNLVYLCEALNLPEVARYW  
QQVIDMNDYQRRRFASRIIDSLFNTVTDKKIAILGFAFKKDGTDTRESSSIYISKYLMDE  
GAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEACDGAHAVVICTEWD MF  
KELDYERIHKKMLKPAFIFDGRRLVDGLHNELQTIGFQIETIGKKVSSKRIPYAPSGEIP  
KFSLQDPPNKKPKV

>sp|Q96RL1|UIMC1\_HUMAN BRCA1-A complex subunit RAP80 OS=Homo sapiens GN=UIMC1 PE=1 SV=2

MPRRKKKVKVESESRNLEKKDVEETSSSVSVKRKRREDAFIVISDSDGEEPKEENGLQKT  
KTKQSNRAKCLAKRKIAQMTEEEQFALALKMSEQEAREVNSQEEEEELLRKAIASLNS  
CRPSDASATRSRPLATGPSSQSHQEKTTSGLTEGIWQLVPPSLFKGSHISQGNEAEERE  
EPWDHTEKTEEEPVS GSGSWDQSSQPVFENVVKSFDRCTGHS AEHTQCGKPQESTGRG  
SAFLKAVQGSGDTSRHCLPTLADAKGLQDTGGTVNYFWGIPFCPDGVDPNQYTKVILCQL  
EVYQKSLKMAQRQLLNKKGFGEVPLPRPPSLIQNECGQGEQASEKNECISED MGDEDK EE  
RQESRASDWHSKTKDFQESSIKSLKEKLLLEEEPTTSHGQSSQGIVEETSEEGNSVPASQ  
SVAALTSKRSLVLMPESSAEIITVCPETQLSSSETFDLEREVSPGSRDILDGVRIIMADK  
EVGNKEDAEKEVAISTFSSSNQVSCPLCDQCFPPTKIERHAMYCNGLMEEDTVLTRRQKE  
AKTKSDSGTAAQTS LDDKNEKCYLCKSLVPFREYQCHVD SCLQLAKADQGDGPEGSGRA  
CSTVEGKWQQLKNPKKEKGHSEGRLLSFLEQSEHKTS DADIKSSETGAFRVPSPGMEEAG  
CSREMQSSFTRRDLNESPVKSFVSI SEATDCLVDFKKQVTVQPGSRTRTKAGRGRRRKF

>sp|Q8NHM4|TRY6\_HUMAN Putative trypsin-6 OS=Homo sapiens GN=PRSS3P2 PE=5 SV=2

MNPLLILAFVGA AVVPFDDDDKIVGGYTCEENSVPYQVSLNSGSHFCGGLISEQWVVS  
AGHCYKPHIQVRLGEHNIEVLEGNEQFINAAKII RHPKYNRIILNNDIMLIKLPSTPAVIN  
AHVSTISLPTAPPAAGTECLISGWGNTLSSGADYPDELQCLDAPVLTQAKCKASYPLKIT  
SNMFCVGFLEGGKDSCQGD SGGPVVCNGQLQGIVSWGYGCAQKRRPGVYTKVYNYVDWIK  
DTIAANS

>sp|Q15661|TRYB1\_HUMAN Tryptase alpha/beta-1 OS=Homo sapiens GN=TPSAB1 PE=1 SV=1

MLNLLLLALPVLASRAYAAPAGQALQRVGIVGGQEAPRSKWPWQVSLRVHGPYWMHFCG  
GSLIHPQWVLTAAHCYGPVDKDLAALRVQLREQHLYYQDQLLPVSRIIVHPQFYTAQIGA  
DIALLELEEPVNVSSHVHTVTLPPASETFPPGMP CWVTGWGDVDNDRLPPPFPLKQVKV  
PIMENHICDAKYHLGAYTGDDVRIVRDDMLCAGNTRRDSCQGD SGGPLVCKVNGTWLQAG  
VVSWE GCAQPNRPGIYTRVTYYLDWIHHYVPKKP

>sp|O95858|TSN15\_HUMAN Tetraspanin-15 OS=Homo sapiens GN=TSPAN15 PE=1 SV=1

MPRGDSEQVRYCARFSYLWLKFSLIISTVFWLIGALVLSVGIIAEVERQKYKTLES AFL  
APAIILILLGVVMFMV SFIGVLASLRDNL YLLQAFMYILGICLIMELIGGVVALTFRNQT  
IDFLNDNIRRG IENYDDLDFKNIMDFVQKKFKCCGGEDYRDWSKNQYHDCSAPGPLACG  
VPYTCCIRNTTEVVNTMCGYKTIDKERFSVQDVIYVRGCTNAV IIFMDNYTIMAGILLG  
ILLPQFLGVLLTLLYITRVEDIIMEHSVTDGLLGP GAKPSVEAAGTGCCLCYPN

>sp|Q12999|TSN31\_HUMAN Tetraspanin-31 OS=Homo sapiens GN=TSPAN31 PE=2 SV=1

MVCGGFACSKNALCALNVVYMLV SLLLIGVA AWGKGLGLVSSIHIIGGVIAVGVFLLLIA  
VAGLVGAVNHQVLLFFYMIILGLVFIQFVISC SCLAINRSKQTDVINASWWMSNKTR  
DELERSFDCCGLFNLT TLYQQDYDFCTAICKS QSPTCQMCGEKFLKHSDEALKILGGVGL

FFSFTEILGVWLAMRFRNQKDPRANPSAFL

>sp|P49746|TSP3\_HUMAN Thrombospondin-3 OS=Homo sapiens GN=THBS3 PE=1 SV=1

METQELRGALALLLCFFTSASQDLQVIDLLTVGESRQMVAVAEKIRTALLTAGDIYLLS  
TFRLPPKQGGVLFGLYSRQDNTRWLEASVVGKINKVLVRYQREDGKVHAVNLQQAGLADG  
RTHTVLLRLRGPSPALHLYVDCKLGDQHAGLPALAPIPPAEVDGLEIRTGQKAYLRM  
QGFVESMKIILGGSMARVGALSECPFQGDSEIHSVNTALHSILGEQTKALVTQLTLFNQ  
ILVELRDDIRDQVKEMSLIRNTIMECQVCGFHEQRSHCSNPFCFRGVCMEVYEPGYRC  
GPCPPGLQGNTHCSDINECAHADPCFPGSSCINTMPGFHCEACPRGYKGTQVSGVGIDY  
ARASKVCNDIDECDNGNNGGCDPNSICTNTVGSFKCGPCRLGFLGNQSQGCLPARTCHS  
PAHSPCHIAHCLFERNGAVSCQCNVWAGNGNVCGTDTDIDGYPDQALPCMDNNKHCKQ  
DNCLLTPNSGQEDADNDGVGDQDDADGDGINKVEDNCRLFPNKDQQNSDTSDFGDACD  
NCPNVPNNDQKDTDNGEGDADNDVDGDGIPNGLDNCPKVPNPLQTDREDEGVGDACDS  
CPEMSNTQTADSDLVGDVCDTNEDSDGDGHQDTKDNCPLPNSSQLSDNDGLGDECD  
GDDNDGIPDYVPPGPDNCLVPNPNQKSDSDNGVGDVCEDDFDNDAVVDPLDVCPEAE  
VTLTDFRAYQTVVLDPEGDAQIDPNWVVLNQGMEIVQTMNSDPGLAVGYTAFNGVDFEGT  
FHVNTVTDDDYAGFLFSYQDSGRFYVVMWKQTEQTYWQATPFRAVAQPLQLKAVTSVSG  
PGEHLRNALWHTGHTPDQVRLWTDPRNVGWRDKTSYRWQLLHRPQVGYIRVKLYEGPQL  
VADSGVIIDTSMRGRLGVFCFSQENIWSNLQYRCNDTPEDFEPFRRQLLQGRV

>sp|Q5TGU0|TSP02\_HUMAN Translocator protein 2 OS=Homo sapiens GN=TSP02 PE=2 SV=1

MRLQGAIFVLLPHLGPILVWLFTRDHMSGWCEGPRMLSWCPFYKVLVLLVQTAIYSVVGYA  
SYLVWKDLGGGLGWPLALPLGLYAVQLTISWTVLVLFFTVHNPGLALLHLLLYGLVVST  
ALIWHPIKLAALLLLPYLAWLTVTSALTYHLWRDSLCPVHQPQPTEKSD

>sp|B1AH88|TSPOB\_HUMAN Putative peripheral benzodiazepine receptor-related protein  
OS=Homo sapiens GN=TSPO PE=5 SV=1

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPAGRPPALPLPGLAGLHDHTQLLR  
MAGQPWLAWGTAAARVSARPTRDCSCTSRCHHACDVAVTLS

>sp|POCV98|TSPY3\_HUMAN Testis-specific Y-encoded protein 3 OS=Homo sapiens GN=TSPY3 PE=3  
SV=1

MRPEGSLTYRVPERLRQGFCGVGRAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALG  
EEAVLLDDIMAEVEVVAEEEGIVERREEAQAQQAVPGPGPMTPEALEELLAVQVELE  
PVNAQARKAFSRQREKMERRRKPDLRRGAVIQSVPGFWANVIANHPQMSALITDEDEDM  
LSYMSLEVEEEKHPVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTPIEWYPD  
YEVEAYRRRRHNSLNFFNWFSDHNFAGSNKIAEILCKDLWRNPLQYYKRMKPPEEGTET  
SGDSQLLS

>sp|Q9UJK0|TSR3\_HUMAN Ribosome biogenesis protein TSR3 homolog OS=Homo sapiens GN=TSR3  
PE=1 SV=1

MGRRAARGPGAEGGRPHLPTRSLFAEEVGAALQASVEPGAADGEGGPGPAALPCTL  
AMWELGHCDPRRCTGRKLARLGLVRCLRLGHRFGGLVLSVPGKQYASPADRQLVAQSGVA  
VIDCSWARLDETPFGKMRGSHLRLLPYLVAANPVNYGRPYRLSCVEAFAATFCIVGFDDL  
AVILLRKFKWGKGLDLNRQLLDKYAACGSPEEVLQAEQEFLANAKESPQEEEIDPFDVD  
SGREFGNPNRPVASTRLPSDTPDSDASEDPGPGAERGGASSSCEEEQTQGRGAEARAPA  
EVWKGIKKRQRD

>sp|Q96PF2|TSSK2\_HUMAN Testis-specific serine/threonine-protein kinase 2 OS=Homo sapiens  
GN=TSSK2 PE=1 SV=2



MDDATVLRKKGYIVGINLGKGSYAKVKSAYSERLKFNVAVKIIDRKKTPDFVERFLPRE  
MDILATVNHGSI IKTYEIFETSDGRIYIIMELGVQGDLLFIKCQGALHEDVARKMFRQL  
SSAVKYCHDLDIVHRDLKCENLLDKDFNIKLSDFGFSKRCLRDSNGRIILSKTFCGSAA  
YAAPEVLQSIPYQPKVYDIWSLGVILYIMVCGSMYPYDDSDIRKMLRIQKEHRVDFPRSKN  
LTCECKDLIYRMLQPDVSQLHIDEILSHSWLQPPKPKATSSASFKEGEGKYRAECKLD  
TKTGLRPDHRPDHKLGAKTQHRLLVVPENENRMEDRLAETSRAKDHHSIGAEEVGKAST

>sp|Q6SA08|TSSK4\_HUMAN Testis-specific serine/threonine-protein kinase 4 OS=Homo sapiens  
GN=TSSK4 PE=1 SV=1

MGKGDVLEAAPTTHAYHSLMDEYGYEVGKAIGHGSYGSVYEAFYTKQKVMVAVKII SKKK  
ASDDYLNKFLPREIQVMKVL RHKYLINFYRAIESTSRVYIILELAQGGDVLEWIQRYGAC  
SEPLAGKWFSQLTLGIAYLHKSIVHRDLKLENLLDKWENVKISDFGFAKMVPSNPVPG  
CSPSYRQVNCFSHLSQTYCGSFAYACPEILRGLPYNPFLSDTWSMGVILYTLVVAHLFPD  
DTNLKKLLRETQKEVTFPANHTISQECKNLILQMLRQATKRATILDIIKDSWVLKFQPEQ  
PTHEIRLLEAMCQLHNTTKQHQLQITT

>sp|Q9NQE7|TSSP\_HUMAN Thymus-specific serine protease OS=Homo sapiens GN=PRSS16 PE=2 SV=2

MAVWLAQWLGPLLLVSLWGLLAPASLLRRLGEHIQQFQESSAQGLGLSLGPGAAALPKVG  
WLEQLLDPFNVSDRRSFLQRYVWVDQHWVGQDGPIFLHLGGESLGP GSVMRGHPAALAP  
AWGALVISLEHRFYGLSIPAGGLEMAQLRFLSSRLALADVVSARLALSRLFNISSSSPWI  
CFGGSYAGSLAAWARLKFPHLIFASVASSAPVRAVLDFSEYNDVVSRLMSTAIGGSLEC  
RAAVSVAFAEVERRLRSGGAAQAALRTELSACGPLGRAENQAELLGALQALVGGVVQYDG  
QTGAPLSVRQLCGLLLGGGNGRSHSTPYCGLRRAVQIVLHSLGQKCLSFSRAETVAQLRS  
TEPQLSGVGDRQWLYQTCTEFGFYVTCENPRCPFSQLPALPSQLDLCEQVFGLSALSVAQ  
AVAQNTSYGGQTPGANKVLFVNGDTPWHVLSVTQALGSSESTLLIRTGSHCLDMAPER  
PSDSPSLRLGRQNIFQQLQTLWLKLAKESQIKGEV

>sp|Q14166|TTL12\_HUMAN Tubulin--tyrosine ligase-like protein 12 OS=Homo sapiens GN=TTL12  
PE=1 SV=2

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRLLHKLHEEV  
FDAGEVFGIMQVEVEVEEEDAAAREVRKQQPNPGNELCYKIVITRESGLQAAHPNSIFLI  
DHAWTCRVEHARQQLQQVPGLLRMANLMGIEFHGELPSTEAVLVLEEMWKFNQTYQLA  
HGTAEEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTLLWPLRDLDTGEEVTR  
DFAYGETDPLIRKCMLLPWAPTMDLDLSSCTPEPPAEHYQAILEENKEKLPLDINPVVHP  
HGHIFKVYTDVQQVASSLTHPRFTLTQSEADADILFNFSHF KDYRKLSQERPGVLLNQFP  
CENLLTVKDCIASIARRAGGPEGPPWLPRTFNLRTLPQFVSFYQQRERWGEDNHWICKP  
WNLARSLDTHVTKSLHSII RHRESTPKVVSKEYIESPVLFLREDVGKVKFDIRYIVLLRSV  
RPLRLFVYDVFWLRFNRAFALNDLDDYEKHFVVMNYDPDVVLKQVHCEEFIPEFEKQYP  
EFPWTDVQAEIFRAFTELFQVACAKPPPLGLCDYPSSRAMYAVDLMLKWDNGPDGRRVMQ  
PQILEVNFNPDCERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV

>sp|Q9BWV7|TTL2\_HUMAN Probable tubulin polyglutamylase TTL2 OS=Homo sapiens GN=TTL2  
PE=2 SV=3

MRGRDLCSSSTQSQUALGSLRTTTAFTLNIPSEANHTEQPPAGLGARLQEAGVSIPPRRGR  
PTPTLEKKKKPHLMAEDEPSGALLKPLVFRVDETTPAVVQSVLLERGWNKFDKQE QNAED  
WNLYWRTSSFRMTEHNSVKPWQQLNHHPGTTKLTRKDCLAKHLKHMRRMYGTSLYQFIPL  
TFVMPNDYTKFVAEYFQERQMLGTHKSHYICKPAELSRGRGILIFSDFKDFIFDDMYIVQ  
KYISNPLLI GRYKCDLRIYVCVTGFKPLTIYVYQEGLVRFATEKFDLSNLQNNYAHLTNS

SINKSGASYEKIKEVIGHGCKWTLRFFSYLRSWDVDDLLWKKIHRMVILTILAIAPSV  
PFAANCFELFGFDILIDNLPWLLEVNYSALTDCSTDVLRKRLVHDIIDLILNGL  
RNEGREASNATHGNSNIDAAKSDRGGLDAPDCLPYDSLSTSRMYNEDDSVVEKAVSVRP  
EAAPASQLEGEMSGQDFHLSTREMPQSKPKLRSRHTPHKTLMPYASLFQSHSCKTKTSPC  
VLSDRGKAPDPQAGNFVLVFPFNEATLGASRNLNVKRIIQELQKLMNKQHS

>sp|Q8NG68|TTL\_HUMAN Tubulin--tyrosine ligase OS=Homo sapiens GN=TTL PE=1 SV=2

MYTFVVRDENSSVYAEVSRLLLATGHWKRLRRDNPRFNLMLGERNRPFGRLGHEPGLVQ  
LVNYYRGADKLCRKASLVKLIKTSPELAESCWFPESYVIYPTNLKTPVAPAQNGIQPPI  
SNSRTDEREFFLASYNRKKEGEGNVWIAKSSAGAKGEGILISSEASELLDFIDNQGVH  
VIQKYLEHPLLLPEGHRKFDIRSWVLVDHQYNIYLYREGVLRASEPYHVDNFQDKTCHL  
TNHCIQKEYSKNYGYEEGNEMFFKEFNQYLSALNITLESSILLQIKHIIRNCLLSVEP  
AISTKHLPPYQSFQLFGFDFMVDEELKVWLVIEVNGAPACAQKLYAELCQGIVDIAISSVFP  
PPDVEQPQTQPAAFIKL

>sp|Q9BZA0|TTY10\_HUMAN Putative transcript Y 10 protein OS=Homo sapiens GN=TTY10 PE=5  
SV=1

MKLQTLMDWEEAHEKNRKNRKAELVAALQTCRVQDPPGTSTDCYLLPVLKPGHFKKNC  
PSHKKKPP

>sp|Q9BZ97|TTY13\_HUMAN Putative transcript Y 13 protein OS=Homo sapiens GN=TTY13 PE=5  
SV=1

MKTQDDGVLPPYDVNQLLGWDNLNLSFLGLCLMLLAGSCLPSPGITGLSHGSNREDR

>sp|Q9BSA4|TTYH2\_HUMAN Protein tweety homolog 2 OS=Homo sapiens GN=TTYH2 PE=1 SV=3

MQAARVDYIAPWWVWLHSPVHGLRLQPVNSTFSPGDESYQESLLFLGLVAAVCLGLNL  
IFLVAYLVCACHRRDDAVQTKQHHSCCITWTAVVAGLICCAAVGVGFYGNSETNDGAYQ  
LMYSLDDANHTFSGIDALVSGTTQMKVDLEQHLARLSEIFAARGDYLQTLKFIQQMAGS  
VVVQLSGLPVWREVTMELTKLSDQTYVEYYRWLSYLLLFILDVVICLIACLGLAKRSKC  
LLASMLCCGALSLLSWASLAADGSAAVATSDFCVAPDTFILNVTEGQISTEVTRYLYC  
SQSGSSPFQQTLTTFQRALTMMQIQVAGLLQFAVPLFSTAEDLLAIQLLLNSSESSLHQ  
LTAMVDCRGLHKDYLDALAGICYDGLQGLLYLGLFSFLAALAFSTMICAGPRAWKHFTTR  
NRDYDDIDDDDPFNPQAWMAHSPPRGQLHSFCSYSSGLGSQTSQPAAQTISNAPVSE  
YMNQAMLFGRNPRYENVPLIGRASPPPTYSPSMRATYLSVADEHLRHYGNQFPA

>sp|O00294|TULP1\_HUMAN Tubby-related protein 1 OS=Homo sapiens GN=TULP1 PE=1 SV=3

MPLRDETLREVWASDSGHEEESLSPEAPRRPKQRPAPAQRLRKKRTEAPESPCPTGSKPR  
KPGAGRTGRPREEPSDPAQARAPQTVYARFLRDPEAKKRDPRETFVARAPDAEDEEEEE  
EEEEDEEEEEAEKKKEKILLPPKKPLREKSSADLKERRAKAQGPRGDLGSPDPPPKPLR  
VRNKEAPAGEGTMKRKTKKKGSGEADKDPGSPASARKSPAAMFLVGEGLGSPDKKALKKKG  
TPKGARKEEEEEEAATVIKSNQKGKAKGKGGKAKEERAPSPPVEVDEPREFVLRPAP  
QGRTVRCRLTRDKKGMDRGMYPSYFLHLDTEKKVFLLAGRKRKRSTANYLISIDPTNLS  
RGGENFIGKLRSNLLGNRFTVFDNGQNPQRGYSTNVASLRQELAAVIYETNVLGFRGPRR  
MTVIIPGMSAENERVPIRPRNASDGLLVRWQNKTLLESLIELHNKPPVWDDSGSYTLNFQ  
GRVTQASVKNFQIVHADDPDYIVLQFGRVAEDAFTLDYRYPLCALQAFALSSFDGKLA  
CE

>sp|Q9BXU3|TX13A\_HUMAN Testis-expressed sequence 13A protein OS=Homo sapiens GN=TEX13A  
PE=1 SV=1

MALRPEDPSSGFRHSNVVAFINEKMARHTKGPEFYLENISLSWEKVEDKLRAILEDSEVP

SEVKEACTWGSALGVRFahrQAQLQRHRVRLHGFakLHKSAAQALASDLKKLREQQET  
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AVAAAGAAGGKGAEEEQRDVEVVAAPVEAMAPPVEAGAAPMETQFPHVEARAASMETTEK  
LERILLQLLGDADEKYTYWGQKEGDLRSVETATSQYFSGTNPWSRASSEPLPVQLPASY  
SYSYSSPFSSFSDIPTISPPQATVTAPVPPQLPSDWEAFDTSLSWSDGGPHRIDHQEHPRD  
RRYSEPHQQRPPVYRRPGDWDCPWCNAVNFSSRRDTCFDCGKGIWLQKPH

>sp|Q6UWH6|TX261\_HUMAN Protein TEX261 OS=Homo sapiens GN=TEX261 PE=2 SV=1

MWFMYLSSWLSLFIQVAFITLAVAAGLYLAELIEEYTVATSRIIKYMIWFSTAVLIGLY  
VFERFPTSMIGVGLFTNLVYFGLLQTFPFIMLTSPNFILSCGLVVVNHYLAFQFFAEYY  
PFSEVLAYFTFCLWIIPFAFFVSLSAGENVLPSTMQPGDDVVSNYFTKGKRGKRLGILVV  
FSFIKEAILPSRQKIY

>sp|Q2TAA8|TXIP1\_HUMAN Translin-associated factor X-interacting protein 1 OS=Homo sapiens  
GN=TSNAXIP1 PE=2 SV=1

MGGHLSPWPTYTSGQTILQNRKPCSDDYRKRVGSCQQHPFRTAKPQYLEELENYLRKELL  
LLDLGTDSTQELRLQPYREIFEFFIEDFKTYKPLLSSIKNAYEGMLAQREKIRALEPLK  
AKLVTVNEDCNERILAMRAEEKYEISLLKKEKMNLKLIDKKNEEKISLQSEVTKLRKNL  
AEEYLHYLSERDACKILIADLNELRYQREDMSLAQSPGIWGEDPVKLTALKMTRQDLTR  
TQMELNNMKANFGDVVPRRDFEMQEKTNDLQEQDLTLRASYYEVRKEHEILMQLHMSTL  
KERDQFFSELQEIQTSTPRPDWTKCKDVVAGGPERWQMLAEGKNSDQLVDVLLLEEIGSG  
LLREKDDFFPGLGYGEAIPAFLRFDGLVENKKPSKKDVVNLLKDAWKERLAEQKETFPDF  
FFNFLEHRFGPSDAMAWYITIFENIKIFHSNEVMSQFYAVLMGKRSENVYVTQKETVAQL  
LKEMTNADSQNEGLLTMEQFNTVLKSTFPLKTEEQIQELMEAGGWHPPSSSNADLLNYRSL  
FMEDEEGQSEPFVQKLWEQYMDKDEYLQQLKQELGIELHEEVTLPKLRGGLMTIDPSLD  
KQTVNTYMSQAFQLPESEMPEEGDEKEEAVVEILQTALERLQVIDIRRVGPREPEPAS

>sp|O14530|TXND9\_HUMAN Thioredoxin domain-containing protein 9 OS=Homo sapiens GN=TXNDC9  
PE=1 SV=2

MEADASVDMFSKVLHQLLTTKLVEEHLDSIQKLDQMDDELRLKEKRLQALRKAQQ  
QKQEWLSKGGHGEYREIPSERDFFQEVKESENVVCHFYRDSTFRCKILDRHLAILSKKHLE  
TKFLKLNVEKAPFLCERLHIKVIPTLALLKDGTQDYVVGFTDLGNTDDFTTETLEWRLG  
SSDILNYSGNLMEPPFQNKKGFTNFTKLEKKTIRGKKYDSDDDD

>sp|P29597|TYK2\_HUMAN Non-receptor tyrosine-protein kinase TYK2 OS=Homo sapiens GN=TYK2  
PE=1 SV=3

MPLRHWGMARGSKPVGDGAQPMAMGGLKVLHWHAGPGGGEPWVTFSESSLTAEVCIHI  
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AVYRCGPPGTEASSDQTAQGMQLLDPASFEYLFQKGHEFVNDVASLWELSTEEIHHFK  
NESLGM AFLHLCHLALRHGIPLEEVAKKTSFKDCIPRSFRRHIRQHSALTRLRLRNVFR  
FLRDFQPGRLSQQMVMVKYLATLERLAPRFGTERVPVCHLRLLAQAEGEPCYIRDSGVAP  
TDPGPESAAGPPTHEVLVTGTGGIQWWPVEEEVNKEEGSSGSSGRNPQASLFGKKAKAHK  
AVGQPADRPREPLWAYFCDFRDITHVVLKEHCVSIHRQDNKCLELSLPSRAAALS FVSLV  
DGYFRLTADSSHYLCHEVAPRLVMSIRDGIHGPLEPFVQAKLRPEDGLYLIHWSTSH  
YRLILTVAQRSQAPDGMQSLRLKFP IEQQDGAFVLEGWGRSFPVRELGAALQGCLLRA  
GDDCFSLRRCCLPQPGETSNIIMRGARSPRTLNSQLSFHRVDQKEITQLSHLGQGTR  
TNVYEGRLRVEGSGDPEEGKMDDEDPLVPGRDRGQELRVVLKVLDPSSHDIALAFYETAS  
LMSQVSHTHLAFVHGVCVRGPENIMVTEYVEHGPLDVWLRREGRHVPMAWKMVVAQQLAS

ALSYLENKNLVHGNVCGRNILLARLGLAEGTSPFIKLSDPGVGLGALSREERVERIPWLA  
PECLPGGANSLSTAMDKWFGGATLLEICFDGEAPLQSRSPSEKEHFYQRQHRLPEPSCPQ  
LATLTSQCLTYEPTQRPSFRTILRDLTRLQPHNLADVLTVNPDSPASDPTVFHKRYLKKI  
RDLGEGHFGKVSLYCYDPTNDGTGEMVAVKALKADCGPQHRSGWKQEIDILRTLYHEHI  
KYKGCCEDQGEKSLQLVMEYVPLGSLRDYLPRHSIGLAQLLLFAQQICEGMAYLHAQHYI  
HRDLAARNVLLDNDRLVKIGDFGLAKAVPEGHEYYRVREDGSDSPVFWYAPECLKEYKFYY  
ASDVWSFGVTLYELLTHCDSSQSPPTKFELELIGIAQGQMTVLRLELLERGERLPRPDKC  
PCEVYHLMKNCWETEASFRPTFENLIPILKTVHEKYQGQAPS VFSVC

>sp|P19971|TYPH\_HUMAN Thymidine phosphorylase OS=Homo sapiens GN=TYMP PE=1 SV=2

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VVNGSAQGAQIGAMLMAIRLRGMDLEETSVLTQALAQSGQQLWPEAWRQQLVDKHSTGG  
VGDKVSLVLAPALAACGCKVPMISGRGLGHTGGTLDKLESIPGFNVIQSPEQMQLDQA  
GCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKLVEGLSALVVDVKFGGAA  
VFPNQEQARELAKTLVGVGASLGLRVAAAL TAMDKPLGRCVGHAEVEEALLCMDGAGPP  
DLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPGLARAL  
CSGSPAERRQLLPRAREQEELLAPADGTVELVRALPLALVLHELGAAGRSRAGEPLRLGVG  
AELLVDVGQRLRRGTPWLRVHRDGPALSGPQSRALQEALVLSRAPFAAPSPFAELVLP  
QQ

>sp|Q05086|UBE3A\_HUMAN Ubiquitin-protein ligase E3A OS=Homo sapiens GN=UBE3A PE=1 SV=4

MEKLHQCYWKS GEPQSDDIEASRMKRAAAKHLIERYYHQLTEGCGNEACTNEFCASCPTF  
LRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLENSKGAPNNSCSEIKMNKKGARI  
DFKDVTYL TEEKVYEILELCREREDYSPLIRVIGRVFSSAEALVQSFVKVQHTKEELKS  
LQAKDEDEKDEDEKEKAACSAAMEEDSEASSSRIGDSSQGDNNLQKLGPDVSVSDIDAIR  
RVYTRLLSNEKIETAFLNALVYLSNVECDLTYHNVS RDPNYLNLFIIVMENRNLHSPE  
YLEMALPLFCAMSKLPLAAQGLIRLWSKYNADQIRMMETFQQLITYKVISNEFN SRN  
LVNDDDAIVAASKCLKMVYYANVVGGEVDTNHNEEDDEEPIPESELTLQELLGEERRNK  
KGPRVDPLETELGVKTLDCRKPLIPFEFFINEPLNEVLEMDKDYTFK VETENKFSFMT  
PFILNAVTKNLGLYYDNIRIMYSERRITVLYSLVQGQQLNPYLRLKVRDHIIDDALVRL  
EMIAMENPADLKKQLYVEFEQEGVDEGGVSKEFFQLVVEEIFNPDIGMFTYDESTKLFW  
FNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKL MGKKGTFRDLGDSHPVLYQ  
SLKDLLEYEGNVEDDMMITFQISQTDLFGNPMYDLKENGDKIPITNENRKEFVNLYSDY  
ILNKSVEKQKFAFRRGFHMVTNESPLKYLFRPEEIELL ICGSRNLDFQALEETTEYDGGY  
TRDSVLIREFWEIVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMI IAKNGPDTERLPTS  
HTCFNVLLLPEYSSKEKLERLLKAITYAKGFGML

>sp|Q9Y5Z9|UBIA1\_HUMAN UbiA prenyltransferase domain-containing protein 1 OS=Homo sapiens  
GN=UBIAD1 PE=1 SV=1

MAASQVLGEKINILSGETVKAGDRDPLGNDCEQDRLPQRSWRQKCASYVLALRPWSFSA  
SLTPVALGSALAYRSHGVLDPRLLVGCAVAVLAVHGAGNLVNTYYDFS KIDHKKSDDR  
LVDRILEPQDVVRFGVFLYTLGCVCAACLYYLSPLKLEHLAL IYFGGLSGSFLYTGGIGF  
KYVALGDLIIILITFGPLAVMFAYAIQVGS LAIFPLVYAIPLALSTEAILHSNNTRDMESD  
REAGIVTLAILIGPTFSYILYNTLLFLPYLVFSILATHCTISLALPLLTIPMAFSLERQF  
RSQAFNKL PQRTAKLNLLGLFYVFGIILAPAGSLPKI

>sp|Q9Y3C8|UFC1\_HUMAN Ubiquitin-fold modifier-conjugating enzyme 1 OS=Homo sapiens  
GN=UFC1 PE=1 SV=3

MADEATRRVVSEIPVLKTNAGPRDRELWVQRLKEEYQSLIRYVENNKNADNDWFRLESNK  
EGTRWFGKCWYIHDLLKYEFDIEFDIPITYPTTAPEIAVPELDGKTAKMYRGGKICLTDH  
FKPLWARNVPKFGLAHLMALGLGPWLAVEIPDLIQKGVIIHQKEKCNQ

>sp|Q96PU4|UHRF2\_HUMAN E3 ubiquitin-protein ligase UHRF2 OS=Homo sapiens GN=UHRF2 PE=1  
SV=1

MWIIQVRTIDGSKTCTIEDVSRKATIEELRERVWALFDVRPECQRLFYRGKQLENGYTLFD  
YDVGLNDIIQLLVRPDPDHLPGTSTQIEAKPCSNPPKVKKAPRVGPSNQPSTSARARLI  
DPGFGIYKVNELVDARDVGLGAWFEAHIHSVTRASDGQSRGKTPLKNGSSCKRTNGNIKH  
KSKENTNKLDSPSTNSDCVAADEDVIYHIQYDEYPESGTLEMNVKDLRPRARTILKWN  
ELNVGDVVMVNYNVESPGQRGFWFDAEITTLKTISRKKELRVKIFLGGSEGTLDCKII  
SVDEIFKIERPGAHLPSFADGKFLRRNDPECDLCGGDPEKKCHSCSCRVCVGGKHEPNMQL  
LCDECNVAYHIYCLNPPLDKVPPEEYWCPSCKTDSSEVVKAGERLKMSKKKAKMPSAST  
ESRRDWGRGMACVGRRECTIVPSNHYGPIPGIPVGSTWRFRVQVSEAGVHRPHVGGIHG  
RSNDGAYSLVLGGFADEVDRGDEFTYTGSGGKNLAGNKRIGAPSADQTLTNMNRALALN  
CDAPLDDKIGAESNRWAGKPVVRVIRSFKGRKISKYAPEEGNRYDGIYKVVKYWPETSSS  
HGFLVWRYLLRRDDVEPAPWTSEGIERSRRLCLRLQYPAGYPSDKEGKKPKGQSKKQPSG  
TTKRPISSDDCPSASKVYKASDSAEATEAFQLTPQQQHILREDCQNQKLWDEVLSHLVEG  
PNFLKKLEQSFMCVCCQELVYQVPTTECFHNVCKDCLQRSFKAQVFSCPACRHDLGQNYI  
MIPNEILQTLDDLFFPGYSKGR

>sp|Q9UPW8|UN13A\_HUMAN Protein unc-13 homolog A OS=Homo sapiens GN=UNC13A PE=2 SV=4

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ILLDRFELPLDIPEEEARYWAKKLEQLNAMRDQDEYSFQDEQDKPLPVPSNQCCNWNFYF  
GWGEQHNDPDSAVDDRDSDYRSETSNSIPPPYYTTSQPNASVHQYSVRPPPLGSRESYS  
DSMHSYEEFSEPQALSPTGSSRYASSGELSQQSSQLSEDFDPDEHSLQGSDMEDERDRDS  
YHSCSSVSYHKDSPRWDQDEEELEEDLEDFLEEEELPEDEEELEEEEEVDDLGSYAQ  
REDVAVAEPKDFKRISLPPAAPGKEDKAPVAPTEAPDMAKVAPKATPDKVPAAEQIPEA  
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PGGGLIIIDSMPDIRKRKPIPLVSDLAMSLVQSRKAGITSALASSTLNNEELKNHVYKKT  
LQALIYPIISCTTPHNFVWTATTPTYCYECEGLLWGIARQGMRCTECGVKCHEKCQDLLN  
ADCLQRAAEKSSKHGAEDRTQNIIMVLKDRMKIRERNKPEIFELIQEIFAVTKTAHTQQM  
KAVKQSVLDGTSKWSAKISITVCAQGLQAKDKTGSSDPYVTVQVGKTKKRTKTIYGNLN  
PVWEENFHFECNSSDRIKVRVWDEDDDIKSRVKQRFKRESDDFLGQTIIEVRTLSGEMD  
VWYNLDKRTDKSAVSGAIRLHISVEIKGEEKVAPYHVQYTCLHENLFHFVTDVQNGGVVK  
IPDAKGDDAWKVYYDETAQEIVDEFAMRYGVESYQAMTHFACLSKYMCPGVPVAVMSTL  
LANINAYYAHTTASTNVASDRFAASNFGKERFVKLLDQLHNSLRIDLSMYRNNFPASSP  
ERLQDLKSTVDLLTSITFFRMKVQELQSPPRASQVVKDCVKACLNSTYEIFNNCHELYS  
REYQTDPAKKGEVLPEEQGPSIKNLDFWSKLITLIVSIIEDKNSYTPCLNQFPQELNVG  
KISAEVMWNLFAQDMKYAMEEHDKHLCKSADYMNLFKVKWLYNEYVTELPFAFKDRVPE  
YPAWFEPFVIQWLDENEVSRDFLHGALERDKKDGQQTSEHALFSCSVVDVFSQLNQSF  
EIIKKLECPDPQIVGHYMRRAKTIISNVLLQYADIISKDFASYCSKEKEKVPCILMNNTQ  
QLRVQLEKMFEAMGGKELDAEASDILKELQVKLNNVLDELSRVFATSFQPHIEECVKQMG  
DILSQVKGTGNVPASACSSVAQDADNVLPIMDLLSNLTLFAKICEKTVLKRVLKELWK  
LVMNTMEKTIVLPPLTDQTMIGNLLRKHGKGLEKGRVKLP SHSDGTQMIFNAAKELGQLS

KLKDHMVREEAKSLTPKQCAVVELALDTIKQYFHAGGVGLKKTFLKSPDLQSLRYALSL  
YTQATDLLIKTFVQTQSAQGLGVEDPVGEVSVHVELFTHPGTGEHKVTVKVVAANDLKWQ  
TSGIFRPFIEVNIIGPQLSDKKRKFATKSKNNSWAPKYNESFQFTLSADAGPECYELQVC  
VKDYCFAREDRTVGLAVLQLRELAQRGSAACWLPLGRRIHMDDTGLTVLRILSQRSNDEV  
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>sp|Q8NB66|UN13C\_HUMAN Protein unc-13 homolog C OS=Homo sapiens GN=UNC13C PE=2 SV=3

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SSIESSYSESLNELRSSTENQAQSTHTMPVRRNRKSSSSLAPSEGSSDGERTLHGLKLGA  
LRKLRLKWKKSQECVSSDSELSTMKKSWGIRSKSLDRTVRNPKTNALEPGFSSSGCISQTH  
DVMEMIFKELQGISQIETELSELRGHVNALKHSIDEISSSVEVVQSEIEQLRTGFVQSRR  
ETRDIHDYIKHLGHMGSKASLRLNVTEERFEYVESVYQILIDKMGFSDAPNAIKIEFA  
QRIGHQRDCPNAKPRPILVYFETPQQRDSVLKKS YKLKGTGIGISTDILTHDIRERKEKG  
IPSSQTYESMAIKLSTPEPKIKKNNWQSPDDSDLEDLNRNSYAVLSKSELLTKGSTS  
KPSSKSHSARSKNKTANSSRISNKSDYDKISSQLPESDILEKQTTTHYADATPLWHSQSD  
FFTAKLSRSESDFSKLCQSYSEDFSENQFFTRTNGSSLLSSSDRELWQRKQEGTATLYDS  
PKDQHLNNGGVQGIQGGTETENTETVDSGMSNGMVCASGDRSHYSDSQLSLHEDLSPWKEW  
NQGADLGLDSSTQEGFDYETNSLFDQQLDVYNKDLEYLGKCHSDLQDDSESYDLTQDDNS  
SPCPGLDNEPQQGWVGQYDSYQGANSNELYQNNQLSMMYRSQSELQSD DSEDAPPKSWH  
SRLSIDLSDKTFSPKFGSTLQRAKSALEVWNKSTQSLSGYEDSGSSLMGRFRTLSQST  
ANESSTLDSVDYTEPYYYKAEDEEDYTEPVADNETDYVEVMEQVLAKLENRTSITETDE  
QMAYDHL SYETPYETPQDEGYDGPADDMVSEEGLEPLNETSAEME IREDENQNIPEQPV  
EITPKKRIRPSFKEAALRAYKKQMAELEEKILAGDSSSVDEKARIVSGNDLDASKFSALQ  
VCGGAGGGLYGIDSMPDLRRKKTLP IVRDVAMTLAARKSGLSLAMVIRTSLNNEELKMHV  
FKKTLQAL IYPMSS IPHNFEVWTATTPTYCYECEGLLWG IARQGMKCLECGVKCHEKCQ  
DLLNADCLQRAAEKSSKHGAEDKTQTIITAMKERMKIREKNRPEVFEVIQEMFQISKEDF  
VQFTKAAKQSVLDGTSKWSAKITITVVSAQGLQAKDKTGSSDPYVTVQVGKNKRRTKTIF  
GNLNPVWDEKFYFECHNSTDRIKVRVWDEDDDIKSRVKQHFKKESDDFLGQTIVEVRTLS  
GEMDVWYNLEKRTDKSAVGAIRLKINVEIKGEEKVAPYHIQYTCLHENLFHYL TEVKSN  
GGVKIPEVKGDEAWKVFFDDASQEIVDEFAMRYGIESIYQAMTHFSCLSSKYMCPGVP  
MSTLLANINAFYAHTTVSTNIQVSASDRFAATNFGREKFIKLLDQLHNSLRIDL SKYREN  
FPASNTERLQDLKSTVDLLTSITFFRMKVLELQSPPKASMVKDCVRACLDSTYKYIFDN  
CHELYSQLTDPSSKKQDIPREDQGPTTKNLDFWPQLITLMVTIIDEDKTAYTPVLNQFPQE  
LNMGKISAEIMWTLFALDMKYALEEHENQRLCKSTDYMNLFHKVKWFYNEYVRELPAFKD  
AVPEYSLWFEPFVMQWLDENEDVSMEFLHGALGRDKDGFQQTSEHALFSCSVVDVFAQL  
NQSFEI IKKLECPNPEALSHLMRRFAKTINKVLLQYAAIVSSDFSSHCDKENVPCILMNN  
IQQLRVQLEKMFESMGKELDSEASTILKELQVKLSGVLELSVTYGESFQV IIEECIKQ  
MSFELNQMRANGNTTSNKNSAAMD AEIVLRLMDFLDKTLSLSAKICEKTVLKRVLKELW  
KLVLNKIEKQIVLPPLTDQTGPQMIFIAAKDLGQLSKLKEHMIREDA RGLTPRQCAIMEV  
VLATIKQYFHAGGNLKKNFLEKSPDLQSLRYALSLYTQTTDALIKKFIDTQTSQSRSSK  
DAVGQISVHVDITATPGTDHKVTVKVIAINDLNWQTTAMFRPFVEVCILGPNLGDKKRK  
QGTKTKSNTWSPKYNETFQFILGKENRPGAYELHLSVKDYCFAREDRIIGMTVIQLQNIA  
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>sp|Q8IWX7|UN45B\_HUMAN Protein unc-45 homolog B OS=Homo sapiens GN=UNC45B PE=1 SV=1

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NTSIQEKLRVQFSTDSRVQKMFEILLDENSEADKREKAANNLIVLGREEAGAEKIFQNGG  
VALLQLLDTKKPELVLAAVRTLSCGSGHQAARATVILHAVRIDRICSLMAVENEEMSLA  
VCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITSHLLDMLVSKKVSQGGRDQAL  
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CDNPKDRGTIVAQGGGKALIPLAEGTDVGKVAHAHALAKIAAVSNPDIAFPGERVYEVV  
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>sp|Q6UY13|YB003\_HUMAN Putative uncharacterized protein UNQ5830/PRO19650/PRO19816 OS=Homo sapiens GN=UNQ5830/PRO19650/PRO19816 PE=3 SV=1

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>sp|A8MUA0|YB057\_HUMAN Putative UPF0607 protein ENSP00000381514 OS=Homo sapiens PE=3 SV=1

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NLTSSWYNPRPLEGNVHLKSLTENNQTDKAQVHAVSFYSKGHGVASSHSPAGGILPFGKP  
DPLPTVLPAPVPGCSLWPEKAALKVLGKDHLPSPLTVGEDMQPKDPAALGSSRSSPP  
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QQGNMRKNMRVLSRTSKFRRLRQLLRRRKKRQQVRSISACT

>sp|Q8N9X3|YA026\_HUMAN Putative uncharacterized protein encoded by LINC01356 OS=Homo sapiens GN=LINC01356 PE=5 SV=1

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RRSRETRGENQSVRAAVRSPDQAFHALVSGSRGREGRLRPQCAGSAGGA

>sp|Q9Y2T7|YBOX2\_HUMAN Y-box-binding protein 2 OS=Homo sapiens GN=YBX2 PE=1 SV=2

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PGSRTPGNPATAVSGTPAPPARSQADKPVLAIQVLGTVKWFNVRNGYGFINRNDTKEDVF  
VHQTAIKRNNPRKFLRSVGDGETVEFDVVEGEKGAEATNVTGPGGVPVKGSRYAPNRRKS  
RRFIPRPPSVAPPMVAEIPSAAGTGPSSKGERAEDSGQRPRRWCPFFYRRRFVGRPRP  
PNQQQPIEGTDRVEPKETAPLEGHQQGDREVPPFRPRYRPRFRPRPRQPTTEGGDG  
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TILE

>sp|Q1RN00|YC018\_HUMAN Putative uncharacterized protein LOC151760 OS=Homo sapiens PE=2 SV=1

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TLLSAQEDTPDLLHEDRLQYLQEEGSGVMHQECQIQSCELSVAQKPRPSSPAVTSLASPP

LCFGSFLSCVCQTFSSRKQKPPRRKGNNQAEAGGDAEVLRPGPAKPELSLSTCSHLKL  
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>sp|Q8N1X5|YF001\_HUMAN Uncharacterized protein FLJ37310 OS=Homo sapiens PE=2 SV=1

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>sp|Q8NBF4|YG006\_HUMAN Putative uncharacterized protein FLJ33307 OS=Homo sapiens PE=5  
SV=1

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GTGTRTWLVDP TLSRDTSP LGGQSWGSPQPSRGA

>sp|Q71RG6|YH006\_HUMAN Putative chemokine-related protein FP248 OS=Homo sapiens GN=FP248  
PE=5 SV=1

MGTGGSLLCGCSLVLSCLCPSASLPDPGNSTWPPGAQAGLPAALALPLPRLPRILFPMAG  
RPARPSSDFVGCAQGMCHGRQGTVHIHTSSVSCWTPCPVTGTGGTAVSRKDRVLPHRRQ  
VSLACVCAVGERAGQLWSQKPVQMARPSARHLLPRGSSPNSQAVLLPSVCPVPWPPVGPS  
PGQGEGLSPA FPGVGTDRGDSWALVLQV

>sp|A8MV72|YH009\_HUMAN Putative UPF0607 protein ENSP00000382826 OS=Homo sapiens PE=5 SV=2

MLSARNSMFMGHLSPVRIPRLRGKFNQLPSLDEQVIPARLLKMEVRAEEPKEATEVKDQ  
VETQGQEDNKMGPSCNGEAASTSRPLETQGNLTSSWYNRPLEGNVHLKSLTEKNQTDKA  
QVHAVSFYSKGHGVASSHSPAGGILPFGKPDPLPTVLPAPVPGCSLWPEKAALKVLGKDHL  
LPSSPGLLMVGEDMQPKDPAVLGSSRSSPPRAAGHRSRKRKLSGPPLQLQLTPPLQLRWD  
RDGGPPPAKLPLCSPEALLVGQASQREGRLQQGNMRKNMRVLSRTSKFRRRKQLRRRRKK  
TRQRRGGGSL

>sp|A8MUI8|YA034\_HUMAN Putative UPF0607 protein ENSP00000383783 OS=Homo sapiens PE=3 SV=2

MRLCLIPQNTGTGPQVLPVPPVWSPPSRKKPMLSACNSMMFGHLSPVRIPHLRGKFNQLP  
SLDEQVIPARLPKMEVRAEEPKEATEVKDQVETQGQEDNKRGPSCNGEAASTSSLLETQG  
NLTSSWYNRPLEGNVHLKSLIEKNQTDKAQVHAVSFYSKDHEVASSHSPAGGILSFGKP  
DPLPTVLPAPVPGCSLWPEKAALKVLGKDHLPSGPGLLMVGEDMQPKDPAALGSSRSSPS  
RAASHSSHKRKLEPPLQLQPTPPLQLKWRDEGPPPAKFPLCSPEALLVSQASQREGRL  
QQGNMCKNMRVLSRTSKFRRLRELLRRRKKRRQGRGSSHL

>sp|Q6ZU45|YA021\_HUMAN Putative C-type lectin domain-containing protein LINC00083 OS=Homo  
sapiens GN=LINC00083 PE=5 SV=1

MREWENRNRGLRELEEVAGSSRTREQLVPRLGGRAGYDWWASGEVQSGREEAGEAHPVA  
ESSLRTRGWGDSHAMTASPVPALQLVSSKRDLVLVKEALSWYDAQQHCR LHYTDLADLQ  
PSGLWKLYSLMTSTPAWIGLFFDASTGLRWSSGSTFTALEWGQKLPEFGVGFCATLYTW  
LKLPSIGAASCTAQKPF L CYCVFTFIFQAWSFPQGP HSVAQAGVQWCDHSSL

>sp|Q6XCG6|YA011\_HUMAN Putative uncharacterized protein PP632 OS=Homo sapiens GN=PP632  
PE=4 SV=1

MWLSPWSTCPPHPLPSCLTACCSPAHPVRGSAQPPASDLCTCVTCCSGPHPNYPHAHL  
PTSSLPICPLICLLTCLLVDCFSALLSACETRDLSPWKARRVLLR

>sp|Q7L0L9|YA043\_HUMAN Transmembrane protein LOC653160 OS=Homo sapiens PE=2 SV=2

MKGLRVAKAFQPSQGC SRQALGHLSGRGPSRSEMNSSVGDLGVGGCSLWDDPARFIVVP  
AAYALALGLGLPANVAALAMFIRSGGRLGQALLLYLFNLALVDEFFTLTLQLWLTYYLGL



ARRPPATRPGPPTTCPPMRRWSSPRSSACAAAASYAVPGPGRLPAWPGAYGAPRALPAPS  
PGWRAWPLPAWSTAGQARGWPPPRWPSRPPSCWCSRPT

>sp|Q8IY57|YAF2\_HUMAN YY1-associated factor 2 OS=Homo sapiens GN=YAF2 PE=1 SV=3

MGDKKSPTRPKRQPKPSSDEGYWDCSVCTFRNSAEAFKCMCDVRKGTSTRKPRPVSQVL  
AQQVTQQFVPPTQSKKEKKDKVEKEKSEKETTSKKNSHKTRPRLKNVDRSSAQHLEVTV  
GDLTVIITDFKEKTKSPPASSAASADQHSQSGSSSDNTERGMSRSSSPRGEASSLNGESH

>sp|Q8NCU8|YB039\_HUMAN Uncharacterized protein encoded by LINC00116 OS=Homo sapiens  
GN=LINC00116 PE=1 SV=1

MLANDVRHQEQEMWGRKVEGGVQSLGKSSVEGETDGTISEFREIQRLAAFASFLSHAPP  
LNARLLTPPPRRRPRCTPAAAMADVSERTLQLSVLVAFASGVLLGWQANRLRRRYLDWR  
KRRLQDKLAATQKKDLA

>sp|Q86TA4|YB049\_HUMAN Putative uncharacterized protein FLJ44553 OS=Homo sapiens PE=5  
SV=2

MLEGVSNEFDHFGISLPLKICLHLGWDEGLVEGKVVRLGQGIGKSICSSCQLFEEAPTQM  
STVPSGLPLPILMHLCLLPVCMHLCPASPCYFGATPGSGKFCRLITYSHSSPQLAASLR  
HRGREVGKDLPPGLCPLTFHPSFFPPVEGCVSSLPGLKLLSPQTIFQILWLYSKSSLVL

>sp|P67809|YBOX1\_HUMAN Nuclease-sensitive element-binding protein 1 OS=Homo sapiens  
GN=YBX1 PE=1 SV=3

MSSEAETQQPPAAPPAALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVL  
GTVKWFNVNRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRVGDGETVEFDVVEGEKGA  
EAANVTGPGGVVPVQGSKYAADRNHYRRYPRRRGPPRNYQQNYQNSSEGEKNEGESAPEG  
QAQRRPYRRRRFPYPMRRPYGRRPQYSNPPVQGEVMEGADNQGAGEQGRPVRQNMRYG  
YRPRFRRGPPRQRPREDGNEEDKENQGETQGQQPPQRRYRRNFYRRRRPENPKPQDG  
KETKAADPPAENSSAPEAEQGGAE

>sp|Q8N9P0|YF006\_HUMAN Putative uncharacterized protein FLJ36797 OS=Homo sapiens PE=5  
SV=1

MTSVASLPEQSPGYRCRSLTGAGARTSAAGPLARLLPRRRLPPPHLPARPPGGWSRNQSH  
QRRGPGRCWGWRGMTRICPLCPGAPEYINSAVSSQTLQSQCTPPQSPQPDPRPLSLRVG  
LALPGGRLGCGEAGSANRHWSFLFPFIHFCWSPRAAAPGVAMNGWMPARWDHQVRRDVA  
GARGAPPAWGQAPSPRRSVGGPQKTLKRPKACSPRSPQHTPGVFSAPKELGRKT

>sp|Q6UXR6|YI004\_HUMAN Putative uncharacterized protein UNQ6494/PRO21346 OS=Homo sapiens  
GN=UNQ6494/PRO21346 PE=5 SV=1

MQCWQQPFLRFLQQPFFLATASLAGSSSSFNVLIPKRDEGDGEGPGDVTAGVSRAAGSP  
SGWEAPVWQQPRCCRRATPVCCAGQGPPRSLQQGGSEVLLGQLCSPEPDWLPSSGPKVAK  
QVFQVAAELLQHPEHFVPSSVPEGCVHKPGSTCDGSLKGRAYPSCVPKRDPKREHSREESH  
LSG

>sp|P46937|YAP1\_HUMAN Transcriptional coactivator YAP1 OS=Homo sapiens GN=YAP1 PE=1 SV=2

MDPGQQPPPQPAPQGGQPPSPQGGQPPSGPGQPAPAATQAAPQAPPAGHQIVHVRGD  
SETDLEALFNAVMPKTANVPQTVPMRLRKLPSFFKPEPKSHSRQASTDAGTAGALT  
QHVRHSSPASLQLGAVSPGTLTPTGVVSGPAATPTAQHLRQSSFEIPDDVPLPAGWEMA  
KTSSGQRYFLNHIDQTTTWQDPRKAMLSQMNVTAPTSPPVQQNMNSASGPLPDGWEQAM  
TQDGEIYYINHKNKTTSWLDPRLDPRFAMNQRTSQSAPVKQPPPLAPQSPQGGVMGGSNS  
NQQQQMRLQQLQMEKERLRKQKQELLQAMRNINPSTANSPKCQELALRSQLPTLEQDGG  
TQNPVSSPGMSQELRTMTTNSDPFLNSGTYHSRDESTDSGLSMSSYSVPRTPDDFLNSV

DEMDTGDITINQSTLPSQQNRFPDYLEAIPGTNVDLGTLEGDMNIEGEEMLPSLQEALSS  
DILNDMESVLAATKLDKESFLTWL

>sp|A8MPS7|YDJC\_HUMAN Carbohydrate deacetylase OS=Homo sapiens GN=YDJC PE=1 SV=1

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPT  
GLHANLSEGRPVGPARRGASSLLGPEGFFLGKMGFREAVAAGDVLDPQVREELEAQLSCF  
RELLGRAPTHADGHQHVVHVLPGVCQVFAEALQAYGVRFTRLPLERGVBGGCTWLEAPARAF  
ACAVERDARAAGVPPSRHGLRWTDADFVGLSTCGRHMSAHRVSGALARVLEGTLAGHTLTA  
ELMAHPGYPSVPPTGGCGEPDAFSCSWERLHELRLVLTAPTTLRAQLAQDGVQLCALDDLD  
SKRPGEEVPCEPTLEPFLEPSLL

>sp|QOP140|YA037\_HUMAN Putative uncharacterized protein HSD52 OS=Homo sapiens GN=HSD52  
PE=5 SV=1

MQDVHTKSIACDGDLLPVLQENSISFQMLSLEMSGSFHSSPALENATITILHVSLLSFFR  
GIQAPCRGSPLLVTDSPGG

>sp|Q8N2B8|YB035\_HUMAN Putative uncharacterized protein FLJ33534 OS=Homo sapiens PE=2  
SV=1

MGLLSQRKWTLSGSQQTGCVALTVPSFPWVASRMHYGRKQVSWIIFLKIGAGCQVHVGHD  
CSTLRRQQGAPWSFASSFRPAASPLAPSPGVSGLFPPHERWSGGSQTRCGKCVMQILG  
STLKLFRHPPSQVTRLWGRHHLKTPAPFLQSPGIQLNPGKVPASLLRLATWKPL

>sp|A8MTW9|YB043\_HUMAN Putative uncharacterized protein ENSP00000380674 OS=Homo sapiens  
PE=5 SV=2

MRPLLALAGLALLCAVGALADGREDRGSPGDTGERPAGPARGPGLEPARGTLQPRPRPP  
RKRWLLSPGAGAQQLEVVHLPGSTL

>sp|Q6ZUG5|YC006\_HUMAN Uncharacterized protein FLJ43738 OS=Homo sapiens PE=2 SV=1

MPVYCKYQFHKTPVHKTKEPHGTHVYFQDINVIFLGALHPSDLREYLEGPPMVVEVHDR  
DRKSEECQKQPVLFGEPLDSYLNQALISPRETENNPESQNMWYPYGIAQVSFADLL  
LGHKYLNLA VPIHSCVQPTHCGQDSRRRKVVGLGVPRDGHQHGPMPRGNYLEADSQKLK  
RVDIAVPLRAGARAADPDLGGSQFGRIIFVFDKFKVSLHSLLDITMINAKALGLDSYP  
VRTLQQILSAFKVRVRVQEQQHLDVLTGFHLLDGKTHLFILEGLADQGLRQLWENHQSWI  
PRSEHRKYKVLNSQLLFRSRLYGDLEAILYHVHLFQPTELLQQAVFFLRDTERRRVFQ  
ALARIHDI CYNSTTLWDVTVRDLLPSSAMIKDLSQEFGMPLSQEELTDEKLFALPPQPAP  
NLEDYHSRNSTLTLEIAHAHQEPKRFTYSQDYLSAMVEPLDLKEEEKKAQKKSRAWLTA  
RGFQVTGLQSDTESSFQDLKLPIKELNEEWKENS LFANVLEPVLDRDRWSWDRHHVDFD  
LYKKPPPFLELLPSPAPKPVTVRKKKGNSPIS

>sp|O95619|YETS4\_HUMAN YEATS domain-containing protein 4 OS=Homo sapiens GN=YETS4 PE=1  
SV=1

MFKRMAEFGPDSSGRVKGVTIVKPIVYGNVARYFGKKREEDGHQWTVYVKPYRNEDMS  
AYVKKIQFKLHESYGNPLRVVTKPPYEITETGWGEFEIIKIFFIDPNERPVTLYHLLKL  
FQSDTNAMLGKKTIVSEFYDEMIFQDPTAMMQLLTTSRQLTLGAYKHETEFAELEVKTR  
EKLEAAKKKTSFEIAELKERLKASRETINCLKNEIRKLEEDDQAKDI

>sp|A4D1N5|YG018\_HUMAN Putative uncharacterized protein FLJ40288 OS=Homo sapiens PE=2  
SV=1

MSSRRSSLSPWKCPWFVYCFERPI SREAGPVVHQSPTVLYLHSELAARQTQGRLLPREPA  
AEDLRSLPGGHAALGLFKLQKGDSYPHPPTVLLGEDLSSSGWNSWVFGILNISRDEEAI  
GILTITLQLRETESSAVKWTHTKHSRELGP

>sp|Q96NJ1|YI001\_HUMAN Uncharacterized protein FLJ30774 OS=Homo sapiens PE=2 SV=1  
MRRRPELRDAEGRRLRLRAGCLVTAWPRAPSGAGSWMAAASPWPASWGFPDASSTVPSL  
CTEARAGRGGPATARSRSVADSQGGRAGSSSPSSALRLCCAGPSQAHPGPSPAVLPGRCG  
LLGSFPRPPAPQGRWGPSLG

>sp|Q5PR19|YI024\_HUMAN Putative UPF0607 protein LOC392364 OS=Homo sapiens PE=2 SV=3  
MAPAPVPALGTLGCRYFLFNPRQHLGPSFPARRYGAPRRLCFLPQNTGTPLRVLPSVFWS  
PPSRKKPVLSARNSRMFGHLSVPRIHLRGKFNRLRPSLDEQVIPARLPKMEVRAEEPKE  
ATEVKDQVETQEEDNKRGPCSNGEAAASTSRPLETQGNPTSPRYNPRPLEGNVQLKSLTE  
NNQTDKAQVHAVSFYSKGHGVASSHSPAGGFPRGRTPPARQH

>sp|Q8TAT8|YK045\_HUMAN Putative uncharacterized protein LOC644613 OS=Homo sapiens PE=5  
SV=2  
MTERRRALSAAVDSINLACVVSRDWLSLVPAFFYSPPPGGSFSGIKRESRRKRPSRN  
EIYGGGVLEQEVRRMRWSKTASPPVSLHHRPLGPARKP

>sp|Q6ZR54|YN009\_HUMAN Putative uncharacterized protein FLJ46641 OS=Homo sapiens PE=5  
SV=1  
MGKLPSRGRGFADVSSQIRVRNRPSWACRRGGPLGTLLANAGPSTVPVPTAGSCQPSP  
LSPGSDPPPPRAHVSPQEAPLGQVPGAEWLPPTRGLLCKDVSSSPGPSFHLGGPGLPG  
HAGPCGPRARPAQGLAGRGNGVGESESPLGTLPCSVPASQQLLRGRSHLQGSALALGEA  
RGGGAAFSWGQEGP

>sp|Q96QA6|YPEL2\_HUMAN Protein yippee-like 2 OS=Homo sapiens GN=YPEL2 PE=1 SV=1  
MVKMTRSKTFQAYLPSCHRTYSCIHCRAHLANHDELISKSFQGSQGRAYLFNSVNVGCG  
PAEERVLLTGLHAVADIYCENCKTTLGWKYEHAFAESSQKYKEGKYIIELAHMIKDNGWD

>sp|P61236|YPEL3\_HUMAN Protein yippee-like 3 OS=Homo sapiens GN=YPEL3 PE=2 SV=1  
MVRISKPKTFQAYLDDCHRRYSCAHCRAHLANHDDLISKSFQGSQGRAYLFNSVNVGCG  
PAEERVLLTGLHAVADIHCENCKTTLGWKYEQAFAESSQKYKEGKYIIELNMIKDNGWD

>sp|A8MWP6|YQ019\_HUMAN Uncharacterized protein ENSP00000382042 OS=Homo sapiens PE=2 SV=2  
MLCPCIQUESTFETCLFMAVSQMSKWRLSRVGGSRSLPAEMEVLGEVWCVRAEEQPMGLG  
IVWHSPLLDKALETWSLQQPDFSLGLGLGLTDATWMQSFPGSGGDAQAGTGVSGLLR  
LYPNLLCDFGPRQGPLWALLLEKRMAGTGGSPALLAWRSASWRALG

>sp|A8MU10|YQ047\_HUMAN Putative uncharacterized protein ENSP00000381562 OS=Homo sapiens  
PE=4 SV=1  
MGSIPSKPCNNPEGPLLQGMEAADWTGIGVCLPPGGARGHIYCTRLCHQRAASAHRSLL  
LPRTVQTGGTEREKPGPGQRKRGACHSACKRSSTRPS

>sp|Q9H8V8|YD018\_HUMAN Putative uncharacterized protein FLJ13197 OS=Homo sapiens PE=5  
SV=1  
MKPDWPRGAAGTRVRSRGECDGTFFARRGAGRRRREIKAPIRAAWSPPSAAMSGLQSGR  
RWRPQGTGTGARAAGALALRLGPRLRAAPLLAPLWLLAPTPDSHMTAPLALRASRGWR  
ENNLSDYQYSWMQKC

>sp|A8MVM7|YD021\_HUMAN Putative uncharacterized protein ENSP00000382790 OS=Homo sapiens  
PE=5 SV=3  
MDKIRHTEADIFKNGSKRMIAITVPLRHSIRDRKPSLHFLHSLASSSSLIYRNALLHKSYP  
LHLQKNKSQKEKHRHSMKMIAYKDTPRNRLSRNAKKCLEDNKLVPISEVSLDPIISSNPL  
LRWWATSASNDSLLEELNNRFEQITNAWVQVSGDEAENCIHKKREHIENDHFKVASPLET  
CLLELEVSPVKMLFQKKYDLNELCTWFMQTTETQSLSLVRKANARNPLEVINTRGIKLG

KYSDFNASPFRKHFKKFALSSPSKSAEKLHILHKVANSPLLNVKSNLAIALRKRTFEKRL  
HHERWKREGKLNHGTVDWNSKRRNLRFFCQNQFLNKTEGETNADIPLQGKSIVDNQCVL  
PPEIRGDLQQRVVMDFKIHASFENKFKSEAKENGNTCSQKDFQKGPRLNVCNWSRSK  
TLKDCRIFLRKLNCLHRNTFKLNTIIYSPESTDGNTHTHMEESKRFTLRSHSARQNS  
FKKQSKEIENANTNNPSADEFADHLGNSKLSKCVNFDKNPDSFEVLSNLNKRKRPPWKIT  
EMSTKRHRKQSCNSGQMANYFSKSLVSKIFGQPNFLAPSMKLVKLGAAKCTSALPHLLIC  
PGFHTNKNIYSRDIEIIFKIYYFNNVDVISFCIW

>sp|Q9ULM3|YETS2\_HUMAN YEATS domain-containing protein 2 OS=Homo sapiens GN=YEATS2 PE=1  
SV=2

MSGIKRTIKETDPDYEDVSVALPNKRHKAIENSARDAAVQKIETIIKEQFALEMKNKEHE  
IEVIDQRLIEARRMMDKLRACIVANYASAGLLKVSEGSTCDTMVFNHPAIIKFLSPS  
RSSSPANQRAETPSANHSESDLSQHNDFLSDKDNNSNMDIEERLSNNMEQRPSRNTGRD  
TSRITGSHKTEQRNADLTDETSRLFVKKTIIVGVNSKYIPDPKREENDQSTHKWMVYVRG  
SRREPSINHFVKVWFFLHPSYKPNDLVEVREPPFHLTRRGWGEFPVRVQVHFKDSQNK  
IDIHNLKLDRTYTLGLTGAETVVDVELHRHSLGEDCIYPQSSESDISAPPSLPLTIP  
APVKASSPIKQSHEPVPDTSVEKGFPASTEAEHRHTPFYALPSSLERTPTKMTTSQKVTFC  
SHGNSAFQPIASSCKIVPQSQVNPESPQKSFQPIITMSCKIVSGSPISTPSPSPLRPTPT  
STPVHVKGGTAGSVINNPYVIMDKQPGQVIGATTPSTGSPTNKISTASQVSQGTGSPVPK  
IHGSSFVTSTVKQEDSLFASMPPLCPIGSHPKVQSPKPITGGLGAFTKVIKQEPGEAPH  
VPATGAASQSPLPQYVTVKGGHMIAVSPQKQVITPGEQIAQSAKVQPSKVVGVPVGSALP  
STVKQAVAISSGGQILVAKASSSVKAVGPKQVVTQGVAKAIVSGGGGTIVAQPVTLTKA  
QVTAAGPQKSGSQGSVMATLQLPATNLANLANLPPGTKLYLTNSKNPSGKGKLLIPQG  
AILRATNNANLQSGSASGGSGAGGGGGGGGGSGSGGGGTGGGGGTAGGGTQSTAGP  
GGISQHLTYTSYILKQTPQGTFLVGQPSQTSQKQLTTGSVVQGTGLGVSTSSAQGGQTLK  
VISGQKTLTFTQAAHGGQASLMKISDSTLKTVPATSQLSKPGTTMLRVAGGVITTATSPA  
VALSANGPAQQSEGMAPVSSSTVSSVTKTSGQQQVCVSQATVGTCKAATPTVVSATSLVP  
TPNPISGKATVSGLLKIHSSQSSPQAVLTIPSQKPLSVNTSGGVQTLMPVNKVVSQSF  
STSKPPAILPVAAPTVPVSSAPAAVAKVTEPETPGPSCLSQEGQTAVKTEESSELGNY  
VIKIDHLETIQLLTAVVKKIPLITAKSEDESCFSAKSVEQYYGWNIGKRRAAEWQRAMT  
MRKVLQEILEKNPRFHHLTPLKTKHIAHWCRCHGYTPDPESLRNDGDSIEDVLTQIDSE  
PECPSFSADNLCKRLEDLQFQKREPENEEVDILSLSEPVKINIKKEQEEKQEEVKF  
YLPPTPGSEFIGDVTQKIGITLQPVALHRNVYASVVEDMILKATEQLVNDILRQALAVGY  
QTASHNRIPKEITVSNIIQAICNIPFLDFLTNKHMGILNEDQ

>sp|Q6ZS52|YF013\_HUMAN Putative uncharacterized protein FLJ45825 OS=Homo sapiens PE=5  
SV=1

MHQTHAIQRLEVLPSFSNESPTSRETSESWTNQDDIFYAYASMSPGAEHRGTTQLLRFQL  
APIKKLEGLSLQTHFLLSSLHPRMTFPGRAGGGEAGSRPPRRPWAGILILQLPSTRGRRS  
GHGAVRSWGPWKVVAEQPVGGTDPPAHGGRGRPSNENT

>sp|Q9BZS9|YG041\_HUMAN Putative uncharacterized protein PNAS-138 OS=Homo sapiens GN=PNAS-  
138 PE=5 SV=1

MPYDQDSFSTLLGFLQASRKYSEFTLKCPICIIYVPCQCFVAVGFLKQSDQ

>sp|A8MXQ7|YH010\_HUMAN Putative IQ motif and ankyrin repeat domain-containing protein  
LOC642574 OS=Homo sapiens PE=5 SV=2

MQEGPSAFREGCPAGDSTPSSPFLGAPELRARRGSQDPRRRGAGEVPADLGPLRVPGSRA

ASSCGLCGREPRLGRAGGFESRPAEDRAARAIQGAFRQLRARRELARRREERREYLEQME  
TPQKEAYLAPVRREQEAARRLREQEAAQRRERREELQRRRRLDAAFDDGVDGEIRAVLKE  
VEQLLTREGVGHDEAGEARRLQRRVALAECEDSYGNTPLSEAAAGGQPLAIQLRAELGAS  
PNSKGAFGPTPLYRAAFGGHLAAVEVLLKLGADPRVYAEDGSTPERVASLDTVVSVLRSW  
DLSLTEAMLQNMEAEQQRRAQEAQRHKEAEERMTLKVQQLTREQQQCHKELQQAYCELS  
RRISEHDQCEWRCMDKTKLTLQAIKDTEAQVDRLRQEAQKAEALAMARLELREQTQEGE  
EEAPGLKCQVTELHDVLMKDVGNRIRADGRSVLRARRGRFGVWTDSSDLMGVPRWPLVID  
PLGQAATFLRYQDTNYVDTVNPEPLRPETMWLALLGALRYGKPLVFDLREEDLFPVVQRQ  
LEAVQERYLSLLRPTDGPEYSPTQFQEQRLEHFRLFFVTKVQWPPEQLQVLLPVRVQLP  
GTGL

>sp|Q8NFD4|YI018\_HUMAN Uncharacterized protein FLJ76381 OS=Homo sapiens PE=2 SV=1  
MGFGSRFWQEGVWRDLEKSTRLEEDAMESEPLAGTKTRGRGRRRWEARHGWTLPAS  
QPSRTVVATATGAEVSACAGRSAGTRVARPESQLSHLYGWDKYSNPRPSRRARAVARVH  
ALEQAPILCRALRWGLTQFLRGTSPTQSVFSS

>sp|Q9Y548|YIPF1\_HUMAN Protein YIPF1 OS=Homo sapiens GN=YIPF1 PE=1 SV=1  
MAAVDDLQFEEFGNAATSLTANPDATTVNIEDPGETPKHQPGSPRGSGREEDDELLGNDD  
SDKTELLAGQKKSSPFWTFEYYQTFDFDVTYQVFDRIKGSLLPIPGKNFVRLYIRSNPDL  
YGPFWICATLVFAIAISGNLSNFLIHLGEKTYHYVPEFRKVSIAATIIYAYAWLVPLALW  
GFLMWRNSKVMNIVSYSFLEIVCVYGYSLFYIPTAILWIIPQKAVRWILVMIALGISGS  
LLAMTFWPAVREDNRRVALATIVTIVLLHMLLSVGCLAYFFDAPEMDHLPTTTATPNQTV  
AAAKSS

>sp|Q3ZCU0|YK006\_HUMAN Putative uncharacterized protein FLJ37770 OS=Homo sapiens PE=5  
SV=1  
MSDRYLEQRISIKFCVKLNKSASETHHLLKEAYGDEVMSRARVFDWHKRFKEGREDDVRDD  
ARSGRPVTHRTDDNIQVKDLVCSNRQLTVRMAEELNLDKETVRLILKENLNMRIKISAK  
VISGLKETEPHYVAQAGLELLVSRDPPTLASQSSGIISSMHAKPKPGVQWCKFQSEST  
GRRARSADVQGQEKMDVTAQEARTNLPFYLFVLRSSMNWMSMHIREGCLFITRSTNSN  
ANLFRKHPHRHTQK

>sp|A6NHS1|YK042\_HUMAN Putative uncharacterized protein ENSP00000347057 OS=Homo sapiens  
PE=5 SV=3  
MVLLAGTRPQGGEARCMIPPPSPLLGAQVEEDRTEFKEFQDFSSLPDTRSVASDDSLYP  
FQDEEEHGVGVESVPEEGILEAWGSCGRWCGVG

>sp|Q6ZRX8|YL004\_HUMAN Putative uncharacterized protein FLJ45999 OS=Homo sapiens PE=5  
SV=1  
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VTIRGVHILTPEPGNVITIRGVHNLTPPGNVTERGVHNLTPPGNVTERGVHNLIPPGN  
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>sp|Q8N7P7|YH007\_HUMAN Uncharacterized protein FLJ40521 OS=Homo sapiens PE=2 SV=1  
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SPRTGAPGTTAVSSNRNPEDDGCLLKQEPGRRLSPQTGTPRTTAVSSNRNPGDDGCLLK  
QGPRGRRLSPQTGTPGTTAVSSNRNPEDDGCLLKQEPGRRLSPQTGTPGTTAVSSNRDH  
EDDGCLLKQESRGRRLSPQTGTPGTTAVSSNRNPEDDGCLLKQESRGRRLSPQTGTPGTT  
AVSSNRDPEDDGCLLKQGPRGRRLSPQTGTPRTTAVSSNRNPEDDGCLLKQGPRGRRLSP  
QTGIPRTTAVSSNRDPEDDGCLLKQESRGRRLSPQTGTTRTTAVSSNRNPEDDGCLLKQ

PRGRRLSSLTGAPGTTAVSSNRDPRTTAVSSNRNPGDDGCLLKQGPRGRRRLSPQTGTPGT  
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>sp|Q5VSD8|YIO29\_HUMAN Putative uncharacterized protein LOC401522 OS=Homo sapiens PE=4  
SV=2

MKLAKTAVLDPATYTSFSPGLSTCSSSQPPGDRRKGLLGCVGSGHCPLPTPAQFPKVQRP  
PTLLGGKNTSTQTTLHPVI

>sp|095070|YIF1A\_HUMAN Protein YIF1A OS=Homo sapiens GN=YIF1A PE=1 SV=2

MAYHSGYGAHGSKHRARAAPDPPLFDDTSGGYSSQPGGYPATGADVAFSVNHLLGDPMA  
NVAMAYGSSIASHGKDMVHKELHRFVSVSKLYFFAVDTAYVAKKLGLLVFPYTHQNEV  
QYSRDAPLPPRQDLNAPDLYIPTMAFITYVLLAGMALGIQKRFSEVLGLCASTALVWV  
MEVLALLLGLYLATVRSDLSTFHLLAYSQYKYGMLSVLTGLLFGSDGYVALAWTSSA  
LMYFIVRSLRTAALGPDMSGPGVPRQLQLYTLGAAAFQPLIIYWLTFHLVR

>sp|A6XGLO|YJEN3\_HUMAN YjeF N-terminal domain-containing protein 3 OS=Homo sapiens  
GN=YJEFN3 PE=1 SV=1

MSSAAGPDPSEAPEERHFLRALELQPPLADMGRAELSSNATTSLVQRRKQAWGRQSWLEQ  
IWNAGPVCQSTAEAAALERELLEDRFGRQQLVELCGHASAVAVTKAFPLPALSRKQRTV  
LVVCGPEQNGAVGLVCARHLRVFEYEPTIFYPTRSLDLLHRDLTTQCEKMDIPFLSYLPT  
EVQLINEAYGLVVDVAVLGPGEVGPCTRALATLKLLSIPLVSLDIPSGWDAETGSD  
SEDGLRPDVLVSLAAPKRCAGRFSGRHHFVAGRFVDDVRRKFALRLPGYTGDCVAAL

>sp|Q6UXP9|Y0001\_HUMAN Putative uncharacterized protein UNQ9370/PRO34162 OS=Homo sapiens  
GN=UNQ9370/PRO34162 PE=5 SV=1

MIFMQILEPQEVPSFLMICQRRSPAMHRTCTDHAPLAIAQVWLWVSLAKAGSNRRGPGR  
EGTFFSLLAALHAAQHFPNLPTAPGGASQSNIVSPELTPKPTTALKHAECLLDLNHSLY  
RKPRPKAAVYLNLSLPLKSVHRLSLKKSFGFGKRDFENNSVFIVDSGGTCAGLLPGYIGW  
C

>sp|Q96MF0|Y0028\_HUMAN Putative uncharacterized protein LOC100506887 OS=Homo sapiens PE=5  
SV=2

MPFKTKYPNGFHFAYLPTGSTQFRSLLQGQDSASQGVCPCLCGAVPVRDQARIQSRRIT  
LANCQQQSALRQVNELANSAQIESFLCFSQLPNAVCFGGHLSCEFRECGYCNINPHHSK  
QLKLNSVTREES

>sp|PODN24|YC024\_HUMAN Putative uncharacterized protein LINC00694 OS=Homo sapiens  
GN=LINC00694 PE=4 SV=1

MSRQQFGQGQEPLDMFFWVNEISGEITYPPQKADAPAVSPESPQKKPPFQPRSVQEAPCS  
PQGPPAQRPALAPPSKPSLKDSGSRNPCPSAPTWARPKPEE

>sp|Q75L30|YG027\_HUMAN Putative uncharacterized protein FLJ92257 OS=Homo sapiens PE=5  
SV=1

MATFPGQVSTYFLAAWTGPGPATHWPLYAQLMPHSGLSRPSSCPGTSSPGPKLPQVGLSR  
PSCCLPAFSPGLALPPGCIYKTNSCLTTTFYGSAPAQLLPAFVGPKLPQVKLFRPTFCLA  
VACTDPALA

>sp|Q9GZM5|YIPF3\_HUMAN Protein YIPF3 OS=Homo sapiens GN=YIPF3 PE=1 SV=1

MATTAAPAGGARNGAGPEWGGFEENIQGGGSAVIDMENMDDTSGSSFEDMGELHQRLREE  
EVDADAADAAAAEEEDGEFLGMKGFQQLSRQVADQMWQAGKRQASRAFSLYANIDILRP  
YFDVEPAQVRSRLLESMPKIKMVNFPQKIAGELYGPLMLVFTLVAILLHGMKTSDTIIRE  
GTLMGTAIGTCFGYWLGVSSFIYFLAYLCNAQITMLQMLALLGYGLFGHCIVLFITYNIH

LHALFYLFWLLVGGLSTLRMVAVLVSRTVGPTQRLLLCGTAAALHMLFLLYLHFAYHKVV  
EGILDTLEGPNIPPIQVRPDIPAMLPAAARLPTTVLNATAKAVAVTLQSH

>sp|Q96EC8|YIPF6\_HUMAN Protein YIPF6 OS=Homo sapiens GN=YIPF6 PE=1 SV=2

MAEAEESPGDPGTASPRPLFAGLSDISISQDIPVEGEITIPMRSRIREFDSSTLNESVRN  
TIMRDLKAVGKKFMHVLYPRKSNLTLLRDWDLWGPLILCVTLALMLQRDSADSEKDGGPQF  
AEVFIWVWFGAVTITLNSKLLGGNISFFQSLCVLGYCILPLTVAMLICRLVLLADPGPVN  
FMVRLFPVIVMFAWSIVASTAFLADSQPPNRRALAVYPVFLFYFVISWMILTFTPQ

>sp|Q6ZSR9|YJ005\_HUMAN Uncharacterized protein FLJ45252 OS=Homo sapiens PE=2 SV=2

MGTKGLPLYPDPSRPVPGTKTQNNLES DY LARDGPSSNSSFHSSEEEGTDL EGDMLDCSGS  
RPLLMESEEEDESCRPPPGKLGGAVPFAPPEVSPEQAKTVQGGRKNQFAFTQPATDGLS  
EPDVFAIAPFRSSRPVNDMDMIFSKAPFVSKSSMAPSQPEESDVFLRAPFTKKKSMEELT  
VIQCTSQELPAQTGLLSQTGDVPLPAGRERAVYTSVQAQYSTAGFVQQSNLLSHSVQAAD  
HLDSISPRGSCLESGGHSNDRNKG PQLQKEAVSGPMAGKPF RPQSLSKYSRHYSPEDEPS  
PEAQPIAAKYIVSQTNKQSIAGSVSITSLSSRTTELPAADPFALAPFPSKSGKKP

>sp|Q6ZQT7|YJ013\_HUMAN Putative uncharacterized protein FLJ44672 OS=Homo sapiens PE=2  
SV=1

MQPGGTAGPEEAPMREAEAGPPQVGLSRPTCSLPASSPGPALPPGCVSRPDSGLPTTSLD  
SAPAQLPAALVDPQLPEAKLPRPSSGLTVASPGSAPALRWHLQAPNGLRSVGSSRPSLGL  
PAASAGPKRPEVGLSRPSSGLPAAFAGPSRPQVGLELGL EEQQVSLSGPSSILSAASPGA  
KLPRVSLSRPSSSCLPLASFSPAQPSSWLSAAFPGPAFD FWRPLQAQNLPS SGPLQARPR  
PRPHSGLSTPS

>sp|POC879|YJ018\_HUMAN Putative uncharacterized protein FLJ43185 OS=Homo sapiens PE=5  
SV=1

MYNPWQVGASLAPARAGPRPFPTPRARPPDCSGGHAPSGFPALGLRTAQRPRPFSSSPRS  
ASGRLRGPRPVARGPAHSSSPTGLPAYLPAAAALDSQTSAPT VSPVTRPRVVARGKTPRV  
SLAGLETLSLLHQQQLFD

>sp|Q6ZVU0|YK022\_HUMAN Putative uncharacterized protein FLJ42102 OS=Homo sapiens PE=5  
SV=1

MVTKWWGQDPPVQLRSQMLWIMELILWK FQSSVVGSSVVTWKISDVAGPHGDHSCSLQH  
LEQIIIGSVSNYPRTGSRSCDRGENPVSLSKRIKCTWMLGASGFPPRCPSGRDHSRDHPG  
KSQVPALELANQLAAWGLWSSVVKSWGFRAGETEAPISALSSAHA

>sp|A1L4Q6|YK033\_HUMAN Putative uncharacterized protein FLJ41423 OS=Homo sapiens PE=5  
SV=1

MAALSSRCPRSAAGPAYLQEAARSAHWASPLVPLRTFQSSLFSSGSFHSREEEEGVSL  
LRTALVGQGPVPLFLGSLFCAGCRQGSPVWSCGEPVPRRIWVTASVTPSPRQALHPCSDS  
LDILKALHLLPAAFSPIWVQVFAEPSNKESRGENDGGEERESANIY

>sp|Q9UM01|YLAT1\_HUMAN Y+L amino acid transporter 1 OS=Homo sapiens GN=SLC7A7 PE=1 SV=2

MVDSTEYEVASQPEVETSPLGDGASPGPEQVKLKKEISLLNGVCLIVGNMIGSGIFVSPK  
GVLIYSASFGLSLVIWAGGLFSVFGALCYAELGTTIKKSGASYAYILEAFGGFLAFIRL  
WTSLLII EPTSQAIITAITFANYMVQPLFPSCFAPYAASRLAAACICLLTFINCAYVKWG  
TLVQDIFTYAKVLALIAVIVAGIVRLGQGASTHFENSFEGSSFAVDIALALYSALFSYS  
GWDTLNYYVTEEIKNPERNLPLSIGISMPIVTIIYILTNAVYYTVLDMRDILASDAVAVTF  
ADQIFGIFNWIIPLSVALSCFGLNASIVAASRLFFVGSREGHLPDAICMIHVERFTVPV  
SLLFNGIMALIYLCVEDIFQLINYYFSYWFVGLSIVGQLYL RWKEPDRPRPLKLSVFF

PIVFCLCTIFLVAVPLYSDTINSLIGIAIALSGLPFYFLIIRVPEHKRPLYLRRIVGSAT  
RYLQVLCMSVAAEMDLEDGGEMPQKQDPKSN

>sp|Q9P1C3|YN010\_HUMAN Putative uncharacterized protein PRO2829 OS=Homo sapiens  
GN=PRO2829 PE=5 SV=1

MVRPHLLKKKILGRVWVWVLPVVLALWEAEVGGSLVRSRPAWPTW

>sp|P07947|YES\_HUMAN Tyrosine-protein kinase Yes OS=Homo sapiens GN=YES1 PE=1 SV=3

MGCIKSKENKSPAIKYRPENTPEPVSTSVSHYGAEPPTVSPCSPSSSAKGTAVNFSSLSMT  
PFGSSSGVTPFGGASSSFVVPSSYPAGLTGGVTIFVALYDYEARTTEDLSFKKGERFQI  
INNTEGDWWEARSATGKNGYIPSNYVAPADSIQAEWYFGKMGRKDAERLLLNPNGNRG  
IFLVRESETTKGAYSLSIRDWDEIRGDNVKHYKIRKLDNGGYITTRAQFDTLQKLVKHY  
TEHADGLCHKLTTCVPTVKPQTQGLAKDAWEIPRESLRLEVKLGGCGFGEVWMGTWNGTT  
KVAIKTLKPGTMMPEAFLQEAQIMKKLRHDKLVPLYAVVSEEPYIYIVTEFMSKGSLLDFL  
KEGDGKYLKLPQLVDMAAQIADGMAYIERMNYIHRDLRAANILVGENLVCKIADFGLARL  
IEDNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILQTELVTGRVPYPGMVNRE  
VLEQVERGYRMPCPQGCPESLHELMNLCWKKDPDERPTFEYIQSFLEDYFTATEPQYQPG  
ENL

>sp|Q6ZS46|YF009\_HUMAN Putative uncharacterized protein FLJ45840 OS=Homo sapiens PE=5  
SV=2

MQTCSGKGIKMAFLDVQSSSTPQSLPLLLFSHREGGGRGAGDPGAPAVVPAPVSAPRPAS  
SPARSESRSPPLTLISRHITCCSCSPGDVLLSGRGGGGGGGGGARTGGGEGEDRRPRPD  
FSRVTAVAIPGWMEVESPPHPPQPVCPTSPQGAPGHGRAGLPEGKGPGRDWLRSQSS  
RCSRATLFGHRAPSPAAPRRGRLPAPGFPSLHSAVSLF

>sp|Q6ZSN1|YIO23\_HUMAN Putative uncharacterized protein FLJ45355 OS=Homo sapiens PE=2  
SV=1

MGVPRAREGRGAGSQSPPRGRCLHPFRWGSQDRGRGEGLALSPLLPGVPPPPAMGVPRDR  
GGRGAGSQSTPRGGCLLPRLGSQQPAGEGLVLSPLRAGDASPCDGPSPKSGVKRGWL  
SVPTSRGVPPPPAIGVLIARGGRGAGSQSLPRGWSFTPLRWGS

>sp|Q9H354|YJ001\_HUMAN Putative uncharacterized protein PRO1933 OS=Homo sapiens  
GN=PRO1933 PE=5 SV=1

MNKHNLRLVLASELILIEIIPKLFLSQVTTISHIKREKIPPNHRKGILCMFPWQCVVYV  
FSNFVWLVIHRFSNGFIQFLGEPYRLMTASGTHGRIKFMVDIPIIKNTQVLRIPVLKDPK  
MLSKKH

>sp|Q6ZS49|YQ050\_HUMAN Putative uncharacterized protein FLJ45831 OS=Homo sapiens PE=5  
SV=1

MEISCTSQGFFFLKEHSSGVSSVKAQMPGRTLRLSLCSCVFPLHSPTRPPSPASAPKGF  
LLLSPTSSNASKLMPYYLFHRSRGVDNSKISVLILLGCELEQTKKKKLGPTALGNSGRV  
E

>sp|Q6UXR8|YS001\_HUMAN Putative uncharacterized protein UNQ6493/PRO21345 OS=Homo sapiens  
GN=UNQ6493/PRO21345 PE=5 SV=1

MEPWWPRGTGANAPWVVLVAVPPGLFPSLLGACCTLTSSSWLQPRFWGLGWRVEVGLEGAG  
GSSQNYQAALPSFFCLAASPASRPAIFGILAAEPPSASPQAPWPKGCASPHGSHWPSIL  
IC

>sp|Q8N9L7|YV006\_HUMAN Putative uncharacterized protein FLJ36925 OS=Homo sapiens PE=5  
SV=1



MTMTMSYKAIEKIPRCSWNREEPGEQWNKIYSVETGLLGTYSFEWQSQVANKTMRKRNTN  
SICGRQHEPHCPVSITRAIAQPQLLTFPDSLARGGHMTQSGQCHVSGSLLGRGHKSRGR  
>sp|Q8N402|YV020\_HUMAN Putative uncharacterized protein LOC388882 OS=Homo sapiens PE=2  
SV=1  
MGIHFSCIRGDLKKPSKKRVKREPYSTTMLQVTSLSPLINEILRRYSLYTNQHWRHHGFWR  
KKIQPQEASEEPPAHKDRGGGERPVNARVVRVAPLRPGFALCGYAVQDISKEDTVYDICN  
EADVDISDEDTVDISNEASVHDISNEAAVCDISNDAVNISNEAAVRDISNDAVDICNEAA  
VHDISNEDTIEDISYEDTVYDITNEDAVRYLCKKDATKEPLTLENDLIVESMSDDEDFAA  
>sp|P58557|YBEY\_HUMAN Putative ribonuclease OS=Homo sapiens GN=YBEY PE=1 SV=2  
MSLVIRNLQRVIPIRRAPLRSKIEIVRRILGVQKFDLGIICVDNKNIQHINRIYRDRNVP  
TDVLSFPFHEHLKAGEFPQPDFDDYNLGDIFLGVEYIFHQCKENEDYNDVLTVTATHGL  
CHLLGFTHGTEAEWQMFQKEKAVLDELGRRTGTRLQPLTRGLFGGS  
>sp|P16989|YBOX3\_HUMAN Y-box-binding protein 3 OS=Homo sapiens GN=YBX3 PE=1 SV=4  
MSEAGEATTTTTTLTPQAPTEAAAAAPQDPAPKSPVSGAPQAAAPAPAAHVAGNPGGDA  
APAATGTAASLATAAGSEDAEKKVLATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQ  
TAIKKNNPRKYLRVGDGETVEFDVVEGEKGAEAAVNTGPDGVPVEGSRYAADRRRYRRG  
YYGRRRGPPRNYAGEEEEEEGSGSEGFDPATDRQFSGARNQLRRPQYRPQYRQRRFPY  
HVGQTFDRRSRLPHPNRIQAGEIGEMKDGVEGAQLQGPVHRNPTYRPRYRSRGPPRPR  
PAPAVGEAEDKENQATSGPNQPSVRRGYRRPYNYRRRPRPPNAPSQDGKEAKAGEAPTE  
NPAPPTQQSSAE  
>sp|A6NC05|YD286\_HUMAN Glutaredoxin-like protein C5orf63 OS=Homo sapiens GN=C5orf63 PE=2  
SV=3  
MLWFQGNMQLARSSFGLFLRNCASKTTLPVLTFTKDCPLCDEAKEVLKPYENRQPY  
KDQKLPGTRRRRSPSSPHPMASQSGKRYNLTLNQVLSFDYDMGLDAPKTISSDCGAFY  
CLRMFKSPDMTCCFYPKQ  
>sp|Q8N814|YG045\_HUMAN Putative uncharacterized protein FLJ40140 OS=Homo sapiens PE=5  
SV=1  
MGWVPEWPGAQSCPTAAQVAQVPFMCNAPASPINDKEKDKAGGRLPSGSEPRARAFCE  
AGADGEQGDPSADTIKANQGHIPAAPGETGSVICWCDQSVAPPRPAGLSVSGRQSYLVG  
CFRWVLTFFFSVFYLT  
>sp|Q9H379|YI012\_HUMAN Putative uncharacterized protein PRO3102 OS=Homo sapiens  
GN=PRO3102 PE=5 SV=1  
MPLASPIQHHEVTRGVAPSMALRDGVCRIPLSAEFTAQCTDSQAPQMKRAPRCCCLAVVA  
QCPHHCPVLGCWSGCRCCCYCVFELHWLYCIQE  
>sp|Q8N1Y9|YI025\_HUMAN Putative uncharacterized protein FLJ37218 OS=Homo sapiens PE=5  
SV=2  
MAKWVPALLLRVPLFSLRFRPASSTFLPVLAATEPAVSVPSGDLMPVKTRAEGEDDGF  
GEAGDPRLLERPWRFRGCLPGKGNRDVGFEGETGPTSTRPEWVWSCRCCLGCRSTRER  
VTSPVRAAGPQPRFTDRETEAAAGTLAHMGFAPPTSFSHFTDQELRDCSSLECLGVVEGD  
PHVLCSTLSLRSPSATLTLLASSCLLAPAPPSFILLFTLIAPDLPHS  
>sp|Q499Y3|YJ016\_HUMAN Putative uncharacterized protein C10orf88-like OS=Homo sapiens  
PE=2 SV=2  
MRVANSYSTGSPAVKSRIELDRIQTIMESMGSKLSPGAQQLINMVRFQQWNCIPIEEQL  
QLVLGNAGYKMTGLQCSSALGALDKLSSTPFPFRTGLTSGNVTENLQAYIDKSTQASSG

ENSTKLDECKIVPQNHSLLENDLKNATSPFLPKKANDNSNIPNSELLPFLQNLCSQVNYL  
LVGRKAE

>sp|Q9NRH1|YAE1\_HUMAN Yae1 domain-containing protein 1 OS=Homo sapiens GN=YAE1D1 PE=2  
SV=1

MSWVQAASLIQGPDKGDVFDDEEADESLLAQREWQSNMQRRVKEGYRDGIDAGKAVTLQQ  
GFNQGYKKGAEVILNYGRLRGTLSSALLSWCHLHNNNSTLINKINNLLDAVGQCEEYVLKH  
LKSITPPSHVVDLLSDIEDMDLCHVVPAAKKIDEAKDERLCENNAEFNKNSKSHSGIDC  
SYVECCRTQEHAHSENPSTWILEQTASLVKQLGLSVDVLQHLKQL

>sp|Q0VG73|YCO23\_HUMAN Putative uncharacterized protein LOC152225 OS=Homo sapiens PE=5  
SV=1

MNNSFNKEDRMSSDTMVGSCDRQTKNGAKWHGGVSSLLDFTLIYIQLSTSFQAGHSFKK  
QHICSDFEVMDLSCAVYGKFFYLLPTLTHPSIQ

>sp|A6NLC8|YE016\_HUMAN Putative TAF11-like protein ENSP00000332601 OS=Homo sapiens PE=3  
SV=2

METGRQTGVSAEMFAMPRDLKSGKKGIPEDLDGNLEPRDQEGELRSEDVMDLTEGDNE  
ASASAPPAKRRRTDTKGKKERKPTVDAEEAQRMTTLLSAMSEEQLSRYEVCRRSAFPKA  
CIAGLMRSITGRSVSENAIAMAGIAKVFGVGEVVEALDVCCEMWGEMPPPLQPKHLREAVR  
RLKPKGLFPNSNYKKIMF

>sp|A8MXE2|YIO36\_HUMAN Putative UDP-GlcNAc:betaGal beta-1,3-N-  
acetylglucosaminyltransferase LOC100288842 OS=Homo sapiens PE=5 SV=2

MQVTFCLRLTHQWCFILFNVLFHALLFGTDFVEEYFLHSLPYIDVKVLEIKNKARKLNI  
EPLRSNLSKYVLSQSEICKGKNIFLLSLIFSSPGNGTRRDILIRKTWGNVTSVQGHPILT  
LFALGMPVSVTTQKEINKESCKNNDIIEGIFLDSSNQTLKIIAMIQWAVAFCPNALFIL  
KVDEETFVNLPISLDYLLNLKEHLEDIYVGRVLHQVTPNRDPQNRDFVPLSEYPEKYYPD  
YCSGEAFIMSQDVARMMYVVFKEVPMMPADVFVGICAKFIGLPIHSSRFSGKRHIRYN  
RCCYKFIFTSSEIADPEMPLAWKEINDGKECTLFETSYELISCKLLTYLDSFKRFHMGTI  
KNNLMYFAD

>sp|Q0VFX4|YLO16\_HUMAN Putative uncharacterized protein LOC100128554 OS=Homo sapiens PE=2  
SV=1

MLKKPSSLEQWEILGTSSGEFRICISRDPCGAGNNNREPSISTRGRTSSSKMVLPHPKVAE  
EAVGGPQCKWLSCGLQGTGGGHLEGHPPRVSQESAPAGHTGISPSSSGVHLIQAKTAGW  
PQRVSSAEQCLLPQIHVPGADFLHVFTLRLHCGPARNAKLVEALFNSNSSC

>sp|A6NCN8|YLO21\_HUMAN Uncharacterized protein ENSP00000372125 OS=Homo sapiens PE=4 SV=2

MASNRQRLRGPSPHMEEPFLQMVAQESLPPSQTWAQREFFLPSESWFPGFTRQAY  
HQLALKLPCTDMKSKVRQLIHPWKGAQHTWGFHTWLDVCRLPATFPTQPDPRPYDSNV  
WRWLTDSNAHRCPPTEHPIPPPSWMGQNSFLTFIHCYPTFVDMKRKKQVIFRTVKELKEV  
EKLKLRSEARAPPLDAQNIQPPASFKKYRHSAGGRFEPQGLQLMPNPFNNFARSWPC  
PNPLPHYQEKVLKLALLPSAPLSQDLIRDFQTLIKDRTALPLHLSKAQASKSPARKRKR  
RPGHF

>sp|Q6ZV60|YLO23\_HUMAN Putative uncharacterized protein encoded by LINC00173 OS=Homo  
sapiens GN=LINC00173 PE=5 SV=1

MSFSPYSTMITVCVCFNSRVQLTVPSFTAWLRSRYSKALFMVLRRAAQEKDKGVCQGWHC  
VKKWACKGRIPGQLPQPLGPYLRSLSQHPATQTPRPQARASSRYLELHRSQNRGGSEF  
KFWFCYCLIACCRDISSSGKWE

>sp|Q9HAA7|YG046\_HUMAN Putative uncharacterized protein FLJ11871 OS=Homo sapiens PE=5 SV=1

MLFGIRILVNTPSPLVTGLHHYNPSIHRDQGEKANQWRKGPQSAHLAAGLAGRCSLINTPS  
PLVTGLQRYNPSMDRAQGMCASLEEEAGLCKPLWAWWELQSHKHSQTSHHRAAGLQSQHA  
PGSGRVKITGGKV

>sp|Q8N377|YJ004\_HUMAN Putative uncharacterized protein LOC387726 OS=Homo sapiens PE=5 SV=2

MDFRQISPTTCTTPASSSSAAPPTPASSSSAAPPTPASSSSAAPPTPANCSTAAPPTPAN  
CSTAAPPTPASSGSAAPPTPAPDHWWMEAPHHWLPGLLARCGSRQLPSSVGLACFGTAAV  
PRKPVNWACQGSHELEASQVGSKGAGPCTPHPSLLGF

>sp|Q96MT0|YJ006\_HUMAN Putative uncharacterized protein FLJ31958 OS=Homo sapiens PE=2 SV=1

MFLHSGPARGPCTAAGRSASVRVPVQVAHELQGPDAIVFGAEVEQVHLVANELDAGRVQL  
LLAQGVAAAVLLVQVVMGEELGEQGHQQARGEVADGQAALLDTAKMLVAEQAVGAGQLQV  
GLGISNLSKSIGTSQIFLERHRSPLKLSSTLITEMSSGRLEEL

>sp|Q8N9G6|YJ012\_HUMAN Putative UPF0607 protein FLJ37424 OS=Homo sapiens PE=2 SV=1

MRLCLIPRNTGTPQRVLRPVVWSPPSRKKPVLSPHNSIMFGHLSVVRIPCLRKFNLQLP  
SLDDQVIPARLPKTEVSAEEPKEATEVKDQVETQGGEDNKRGPSCNGEAASTSRPLETQG  
NLTSSWYNPRPLEGNVHLKSLTEKNQTDKAQVHAVSFYSKGHGVASSHSPAGGILPFGKP  
DPLPTVLPAPVPGCSLWPEKAALKVLGEDHLPSSPGLLMVGEDMQPKDPAALGSSRSSPP  
RAAGHRSHKRKLSGPPQLQPTPPLQLRCDRDERPPPAKLPLCSPEALLVGASQREGRL  
QHGNMRKNMRVLSRISKFRRLRQLLRRRKKTRQGRRGGSC

>sp|Q6ZVH6|YK004\_HUMAN Putative uncharacterized protein FLJ42569 OS=Homo sapiens PE=2 SV=1

MGPWPRDWLGKGWRLGSCEARAGAKEVSVIRHGAPNPAQSHLHVQARAQVHSEDGHSPLP  
VVDGEDEVLSLLVFVQDSQECCRQAVQGRQGRGVTWGLGLPSYHLRTLLSPVCVPARDQR  
APRKCEAVLACPLVETLVTLLTR

>sp|Q6AWC8|YK026\_HUMAN Putative uncharacterized protein LOC100129027 OS=Homo sapiens PE=5 SV=1

MYWQNWTHNGRLWGAGVHLYLSRKQCALKNNTLSKFQTSICKGSALQPQQASPGASSFL  
TCPPELVGMVYLKLVLGQMVQAVRRDSGLQPFQSLFLLITQKRAVLTPFLTKTWHSLRALVY  
RVWSLEESRYLQREKGLVDSFGVLWEE

>sp|Q9UHU1|YK039\_HUMAN Putative uncharacterized protein PRO1716 OS=Homo sapiens GN=PRO1716 PE=5 SV=1

MLTALGQVNNIQKEFTIKTKQADHNLVARIDEIQYVQGTINL

>sp|Q3C1V9|YK041\_HUMAN Putative uncharacterized protein ENSP00000334305 OS=Homo sapiens PE=5 SV=2

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EKGVLDEGVLEAWGCCRRCRHAGWNRSQPSPELAGAVIHARAPAVGCRQRSGLHVRLKQ  
RLLERPQCEPLGKKYQLELPPLYERARKPEGSKNLPADGQGLRAVRADAALPVWPGGPGR  
PGPHAPEAGAEGQHQQWPPADTRHLRTPKWPYKVATEEKPEAEAEKKRQAKVQEKRLP  
PWKKRTLNVHVRPWGQHRACVQMLLVSTKQLQRYLHFEKPAKPANMGQDPDFGKSEGE  
LATCLCGGESVVGETEAPGVRPDRPEKDAKPAVSGCQEEESWLQSEYDEMHPREEMNVPS  
LRSGSGCQVSGSPLAKGLHPLQPCPHYMMWECCLFTLTLTGTQACFEVCARRLKLAFHCP

DTSLWSCGGQSPVLCQLLDIISVSRDKVIGSHEKKPSSNPQDDFHSSEYAYRCGIAEA  
VGLPSIPVHPIGYYDAEKLLEYESLLLQVSEPVNPELSAGPITGLLDRLSGFRDHGPPGS  
SCRSQRKGNVETKDQAHNRDPRGFQGGVLTARLFKMQVSLELFCGHQEHYLRPVLAP  
GYPVHLGKAGTHWEQGNMPTPEQHGTWGNRHLFAVLPLLFTSLEIMSIGYSVVMAGR  
NVWQPTKGQMPHQPEQSCQTLALPMTIRHSWEGGAIRESSGWVSWKCHLKATEASQNPCVR  
ATALRVGCSAVTYGVLGQAQGSAPWTSFAKTFSSAGIAGLERHAWETM

>sp|Q9H521|YM006\_HUMAN Putative uncharacterized protein LOC645739 OS=Homo sapiens PE=5 SV=1

MVWQENEDLRKQVLEASELLKSQAKELKDAHQQKLALQDFLELCELVAELCSQKQKVWD  
KEGEMEAMQKVNMTMWQES

>sp|Q96TA2|YME1L1\_HUMAN ATP-dependent zinc metalloprotease YME1L1 OS=Homo sapiens GN=YME1L1 PE=1 SV=2

MFSLSSTVQPQVTVPLSHLINAFHTPKNTSVSLSGVSVSNQHRDVVPEHEAPSSECMFS  
DFLTKLNIVSIGKGKIFEGYRSMFMEPAKRMKKSLLDTDNWHIRPEPFSLSIPPSLNLRD  
LGLSELKIGQIDQLVENLLPGFCKGNISSHWHTSHVSAQSFFENKYGNLDIFSTLRSSC  
LYRHHSRALQSICSDLQYWPVFIQSRGFKTLKSRTTLLQSTSERLAETQNIAPSFVKGFL  
LRDRGSDVESLDKLMKTKNIPEAHQDAFKTGFAEGFLKAQALTQKTNDLSLRTRLILFVL  
LLFGIYGLLKNPFLSVFRFTTTGLDSAVDPVQMKNVTFEHVKGVEEAKQELQEVVEFLKN  
PQKFTILGGKLPKGILLVGPPGTGKTLARAVAGEADVPPFYASGSEFDEMFGVGASRI  
RNLFREAKANAPCVIFIDELDSVGGKRIESPMHPYSRQTINQLLAEMDGFKPNEGVIIG  
ATNFPEALDNALIRPGRFDMQVTVPRPDVKGRTEILKWLKIKFDQSVDPETIARGTVG  
FSGAELENLVNQAALKAADVKGEMVTMKELEFSKDKILMGPERRSVEIDNKNKTITAYHE  
SGHAI IAYYTKDAMPINKATIMPRGPTLGHVSLLPENDRWNETRAQLLAQMDVSMGGRVA  
EELIFGTDHITTGASSDFDNATKIAKRMVTKFGMSEKLGVMYSDTGKLSPETQSAIEQE  
IRILLRDSYERAKHILKTHAKEHKNLAEALLTYETLDAKEIQIVLEGKKLEVR

>sp|A8MU76|YPO34\_HUMAN Putative UPF0607 protein ENSP00000381418 OS=Homo sapiens PE=3 SV=2

MRLCLSPQNTGTPQVRVLPVWSPPSRKKPALSAARNSTMFGLRPLRIPRLRGKFNQLP  
SFDEQVIPARLPKTEMRAEEPKEATEVKDQVETQGGEDNKRGPCSNGEAAASTSRPLETQG  
NLTSSWYNPRTLEGNVHLKSLTENNQTDKAQVHAVSFYSGHGVASSHSPAGGILPFGKP  
DPLPTVLPAPVPGCSLWPEKGALKVLGKDHLPPSGLLMVGEDMQPKDPAALGSSRSSPP  
RAAGHSSRKRKLSGPLLQLLTPPLQLRWDRDEGPPPAKLPCLSPEALLVGQASQREGRL  
QQGNMHKNMVRVLSRTSKFRRLRELLRRRKERRQGRRGGPRL

>sp|Q96NS1|YPEL4\_HUMAN Protein yippee-like 4 OS=Homo sapiens GN=YPEL4 PE=2 SV=1

MPSCDPGPGPACLPKTFRSYLPCHRTYSCVHCRAHLAKHDELISKSFQGSGRAYLFN  
SVNVNCGCPAEQRLLLTGLHSVADIFCESCKTTLGWKYEQAFETSQKYKEGKYI IEMSHM  
VKDNGWD

>sp|Q6ZSA8|YS025\_HUMAN Putative uncharacterized protein FLJ45684 OS=Homo sapiens PE=5 SV=2

METANGEEPAGPPVSLHGRLLLRVGGACPTPLPVLQRLPPSALHHTLHCVPRRVCVSPL  
GQVTRIPPVRTVRRAPSGLLPQRRGGPSWWPPSGVARGGPSWWPPSGVVRGGPSSWWPPSG  
VAEPREALGLP

>sp|Q7Z739|YTHD3\_HUMAN YTH domain-containing family protein 3 OS=Homo sapiens GN=YTHDF3 PE=1 SV=1

MSATSVDQRPKGQGNKVSQNGSIHQKDAVNDDDFEPYLSQTNQSN SYPPMSDPYMPSY

YAPSIGFPYSLGEAAWSTAGDQMPYLT TYGQMSNGEHYIPDGVSQPGALGNTPPFLG  
QHGFNFFPGNADFSTWGTSGSQGSTQSSAYSSSYGYPPSSLGRAITDGQAGFGNDTL SK  
VPGISSIEQGMTGLKIGDLTAAVTKTVGTALSSSGMTSIATNSVPPVSSAAPKPTSWAA  
IARKPAKPQPKLKPGNVGIGGSAVPPPIKHNMNIGTWDEKGSVVKAPPTQPVLPQT I  
IQPQPLIQPPPLVQSQLPQQQPQPQQQQGPPQAQPHQVQPPQQQLQNRWVAPRNR  
GAGFNQNNGAGSENFGLGVVPVSASPSSVEVHPVLEKLKAINNYPKDFDWNLKNGRVFI  
IKSYSEDDIHRSIKYSIWCSTEHGKRLDAAAYRSLNGKGPLYLLFSVNGSGHFCGVAEMK  
SVVDYNAYAGVWSQDKWKGFVKWIFVKDVPNNQLRHIRENNDNKPVTNSRDTQEVPL  
EKAKQVLKIIATFKHTTSIFDDFAHYEKRQEEEEAMRRERNR NKQ

>sp|A8MWP4|YU008\_HUMAN Putative uncharacterized protein ENSP00000401716 OS=Homo sapiens  
PE=5 SV=1

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RFFPASAMAPPWLPGLVSAQKLPVLSDLPPHCTRAQCQPLTQRPHSLHLQDSRNASSLP  
HKGWRCNFPLQGPAGLTHKSACVGRMGHCCGSAGNPELSRPRPASPRGQQVTQDGPLQTP  
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>sp|A8MUU9|YV023\_HUMAN Putative uncharacterized protein ENSP00000383309 OS=Homo sapiens  
PE=5 SV=3

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LKRTPSRASLTRTLRSASLTRLKSRASTRTPSRASLTRTPPTASRTRSLPRASRTRTP  
RTSQRMPPTSQTRTPPRASLRRTPSRASRTRTPPRASLRRTPSRASLTRTPSRASLTR  
LKSRASTRTPSRASLTRTPPTASLTRASRTRTPPTSQTRTPPRASLRRTPSRASLTR  
PSRASLTRTPSRASLTRLKSRASTRTPSRASLTRTPPTASLTRTPPTASLTRTPPRASL  
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ASLTRSKSRASSTRTPSRASLTRTPPRASLTRTPPRASLTRSPPTASLTRMPPTASLTRS  
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>sp|Q52M93|Z585B\_HUMAN Zinc finger protein 585B OS=Homo sapiens GN=ZNF585B PE=2 SV=1

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SHLLSVGYQVPKPEVVMLEQGEKPEWALQGERPRHSCGPEKLWDHNQHRKIIGYKPASSQD  
QKIYSGEKSYECAEFGKSFTWKSQFKVHLKVPTGEKLYVCIECGRAFVQKPEFITHQKTH  
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HHECTDCGKAFTQKSTLKIHTGERSYICIECGQAFIQKTQLIAHRRHSGEKPYEC  
NNCGKSFISKSQLVHQRVHTRVKPYICTEYGVFSNNSNLITHEKIQSREKSSICTEG  
KAFTYRSELIHQRHTGEKPYECSDCGRAFTQKSALT VHQRHTGEKSYICMKCGLAFI  
RKAHLITHQIHTGEKPYKCGHCGKLFTSKSQLHVHKRIHTGEKPYVCNKGKAFTRNSN  
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QKIHTGERQYECHECGKAFNQKSILIVHQIHTGEKPYVCTECGRAFIRKSNFITHQRIH  
TGEKPYECSDCGKSFTSKSQLLVHQPVHTGEKPYVCAECGKA FSGRNSLKHQKTHTEK  
PYICSECGKTFRQKSELITHHRIHTGEKPYECSDCGKSFTKSQLVHQRIHTGEKPYVC  
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>sp|POCH99|Z705D\_HUMAN Zinc finger protein 705D OS=Homo sapiens GN=ZNF705D PE=2 SV=1

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QGKELWREGRVFLQDQNPDRSALKKKHMISMHP IIRKDASTMTMENSLILEDPFYEND  
SGEDCTHSSTITQCLLTHSGKKPCVSKQCGKSLRNLLSPKPRKQIHTKGKSYQC NLCEKA

YTNCFYLRHKMTHTGERPYACHLCGKAFTQCSHLRRHEKTHTGERPYKCHQCGKAFIQS  
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>sp|P43403|ZAP70\_HUMAN Tyrosine-protein kinase ZAP-70 OS=Homo sapiens GN=ZAP70 PE=1 SV=1  
MPDPA AHL PFFYGSISRAEAEHLKLAGMADGLFLLRQCLRSLGGYVLSLVHDVRFHHFP  
IERQLNGTYAIAGGKAHCGPAELCEFYSRDPDGLPCNLRKPCNRPSGLEPQPGVFDCLRD  
AMVRDYVRQTWKLEGEALEQAIISQAPQVEKLIATTAHERMPWYHSSLTREEAERKLYSG  
AQTDGKFLLRPRKEQGTIALSLIYGKTVYHYLISQDKAGKYCIPEGTKFDTLWQLVEYLK  
LKADGLIYCLKEACPNSSASNASGAAAPTLP AHPSTLTHPQRRIDTLNSDGYTPEPARIT  
SPDKPRPMPMDTSVYESPYSDPEELKDKKFLKRDNLLIADIELGCGNFGSVRQGVYRMR  
KKQIDVAIKVLKQGTEKADTEEMMREAQIMHQLDNPYIVRLIGVCQAEALMLVMEMAGGG  
PLHKFLVGKREEIPVSNVAELLHQVSMGMKYLEEKNFVHRDLAARNVLLVNRHYAKISDF  
GLSKALGADDSYYTARSAGKWPLKWYAPECINFRKFSSRSDVWSYGVTMWEALSYGQKPY  
KKMKGPVMAFIEQGKRMECPPECPELYALMSDCWIYKWEDRPDFLTVEQRM RACYYSL  
ASKVEGPPGSTQKAEAAACA